

ITD DIST. 3 BLDG. IMPROVEMENT

8150 WEST CHINDEN BLVD

GARDEN CITY, ID

ABBREVIATIONS

▲	CENTERLINE	HT.	HEIGHT
○	PERPENDICULAR	HWAC	HEATING VENTILATING AND AIR
□	SQUARE	COND.	CONDITIONING
⊗	DIAMETER	LD.	INSIDE DIAMETER
(E)	NUMBER	IN.	INCH
(F)	EXISTING	INSUL.	INSULATION
(N)	NEW	INT.	INTERIOR
(R)	RENOVATE OR RELOCATED	JANL	JANITOR
⊕	AT	JT.	JOINT
A.B.	AIR CONDITIONING	K.O.	KNOCKOUT
A.D.A.A.G.	AMERICANS WITH DISABILITIES ACT	KT.	KITCHEN
A.F.F.	ABOVE FINISH FLOOR	L.F.	LINEAL FEET OR FOOT
A.O.A.	ARJUNES OPERATION AREA	LAM.	LAMINATE
AC	AIR CONDITIONING	LAV.	LAVATORY
ABV.	ABOVE	LBS	POUNDS
ADJUST.	ADJUSTABLE	M.B.	MACHINE BOLT
ADJ.	ADJUSTABLE	M.H.	MANHOLE
AGG.	AGGREGATE	M.O.	MASONRY OPENING
ALT.	ALTERNATIVE	MAX.	MAXIMUM
ALUM.	ALUMINUM	MECH.	MECHANICAL
APPROX.	APPROXIMATE	MET.	METAL
ARCH.	ARCHITECTURAL	MFR.	MANUFACTURER
ARCH.	ARCHITECTURAL	MFR.	MANUFACTURER
AUTO.	AUTOMATIC	MN.	MINIMUM
AVE.	AVENUE	MISC.	MISCELLANEOUS
B.O.	BOTTOM OF	MTD.	MOUNTED
B.O.C.	BASE OF CURB	N.	NORTH
B.U.	BUILT UP	N.I.C.	NOT IN CONTRACT
BD.	BOARD	N.S.	NEAR SIDE
BDO.	BUILDING	N.T.S.	NOT TO SCALE
BK.	BACK	NO.	NUMBER
BM.	BEAM	NOM.	NORMAL
BTM.	BOTTOM	O.A.	OVER ALL
G.B.	CATCH BASIN	O.C.	ON CENTER
C.C.	CENTER TO CENTER	O.D.	OUTSIDE DIAMETER
CAST IRON	CAST IRON	O.H.	OPEN TO STRUCTURE
C.I.P.	CAST IN PLACE	O.S.	OVER
C.M.U.	CONCRETE MASONRY UNIT	OH	OVERHEAD
CONC.	CONCRETE	OFF.	OFFICE
C.T.	CERAMIC TILE	OPNG.	OPENING
C.W.	COLD WATER	OPP.	OPPOSITE
CAB.	CABINET	OS.	OUNCE
CEM.	CEMENT	OS.	OUNCE
CFM.	CUBIC FEET/MINUTE	P.LAM.	PLASTIC LAMINATE
CD.	CEDAR	P.	PAPER TOWEL DISPENSER
CLR.	CLEAR	P.L.	PROPERTY LINE
CLR.	CLEAR	PL.	PARTICLE
COL.	COLUMN	PLATE	PLATE
CONC.	CONCRETE	PLUMB.	PLUMBING
CONTR.	CONTRACT	P.L.	PLYWOOD
CORR.	CORROSION	P.R.	PRE-ENGINEERED
COORDINATE WITH	COORDINATE WITH	PT.	POINT
D.	DEEP	P.M.T.	PAVEMENT
D.B.A.	DEFORMED BAR ANCHOR	Q.D.	QUARRY TILE
D.F.	DRAIN FOUNTAIN	R.	RADIUS OR RADIUS
D.S.P.	DOWNSPOUT	R.D.	ROOF DRAIN
DETAL	DETAIL	R.O.	ROUGH OPENING
DIAM.	DIAMETER	R.W.L.	RAIN WATER LEADER
DIAG.	DIAGONAL	RE.	REFERENCE (C/W)
DIM.	DIMENSION	RENF.	REINFORCED
DN.	DOWN	REQD.	REQUIRED
DWG.	DRAWING	ROOM	ROOM
E.B.	EXPANSION BOLT	S.C.	SOLID CORE
E.I.F.S.	EXTERIOR INSULATION & FINISHING SYSTEM	S.C.D.	SEAT COVER DISPENSER
E.J.	EXPANSION JOINT	S.D.	SOAP DISPENSER
E.P.	ELECTRICAL PANELBOARD	S.F.	STAINLESS STEEL
E.W.C.	ELECTRIC WATER COOLER	S.I.D.A.	SECURITY IDENTIFICATION DISPLAY AREA
E.A.	EACH	S.N.D.	SANITARY NAPKIN DISPENSER
ELEC.	ELECTRICAL	S.S.	STAINLESS STEEL
ELEV.	ELEVATOR	SCHED.	SCHEDULE
EQU.	EQUAL	SECT.	SECTION
EQUIP.	EQUIPMENT	SHR.	SHOWER
EXH.	EXHAUST	SHR.	SHOWER
EXP.	EXPANSION	SHT.	SIMILAR OR SIMILAR TO
EXT.	EXTERIOR	SPECS.	SPECIFICATIONS
F.A.	FIRE ALARM	SQ.	SQUARE
F.B.	FLAT BAR	ST.	STREET OR STEEL
F.D.	FLOOR DRAIN	STD.	STANDARD
F.E.	FIRE EXTINGUISHER	STRUC.	STRUCTURAL
F.E.C.	FIRE EXTINGUISHER CABINET	SUSP.	SUSPENDED
F.H.C.	FIRE HOSE CABINET	SYM.	SYMMETRICAL
F.O.	FACE OF	T & G.	TONGUE & GROOVE
F.O.C.	FACE OF CURB/CONCRETE	T & G.	TONGUE & GROOVE
F.O.F.	FACE OF FINISH	T.B.	TOWEL BAR
F.O.M.	FACE OF MASONRY	T.D.	TOP OF DRAIN
F.O.S.	FACE OF STUDS	T.O.C.	TOP OF CURB/CONCRETE
F.O.T.	FACE OF TREAD	T.O.M.	TOP OF MASONRY
F.S.	FAR SIDE	T.O.P.	TOP OF PARAPET
FN.	FOUNDATION	T.O.S.	TOP OF SLAB
FL.	FLOORING	T.O.W.	TOP OF WALL
FLASH.	FLASHING	T.P.D.	TOILET PAPER DISPENSER
FT.	FOOT OR FEET	TEL.	TELEPHONE
FTW.	FOOTING	THK.	THICKNESS
FURR.	FIRE TREATED WOOD	THRES.	THRESHOLD
FURR.	FURRING	TKP.	TYPICAL
G.	GAS	U.B.C.	UNIFORM BUILDING CODE
G.B.	GRIBB BAR	U.O.N.	UNLESS OTHERWISE NOTED
GA.	GAUGE OR GAGE	V.C.T.	VENYL COMPOSITION TILE
GALV.	GALVANIZED	V.I.F.	VERTICAL IN FIELD
GYP.	GYPSEUM	VERT.	VERTICAL
H.S.	HIGH	VEST.	VESTIBULE
H.A.S.	HEADED ANCHOR STUD	W.	WIDE
H.A.S.	HEADED CONCRETE ANCHOR	W.B.	WALL BEYOND
H.B.	HOSE BIBB	W.C.	WATER CLOSET OR WALL COVERING
H.C.	HANDICAPPED - A.D.A.A.G.	W.G.	WIRE GLASS
H.M.	HOLLOW METAL	W.L.	WORK LIGHT
H.P.	HIGH POINT	W.P.	WASTE POINT
HOT WATER	HOT WATER	W.R.	WASTE RECEPTACLE
HORIZ.	HORIZONTAL	W.W.F.	WELDED WIRE FABRIC
HR.	HOUSING	W.	WIDE
		WO	WITHOUT
		WOOD	WOOD

GENERAL NOTES

- THE APPLICABLE BUILDING CODE IS THE 2018 INTERNATIONAL BUILDING CODE (2018 IBC).
- THE DRAWINGS INDICATE LOCATION, DIMENSIONS, REFERENCE, AND TYPICAL DETAILS OF CONSTRUCTION. THE DRAWINGS DO NOT INDICATE EVERY CONDITION. WORK NOT PARTICULARLY DETAILED SHALL BE OF CONSTRUCTION SIMILAR TO PARTS THAT ARE DETAILED.
- DO NOT SCALE DRAWINGS.
- FIGURED DIMENSIONS TAKE PRECEDENCE OVER SCALED DRAWINGS. WHERE DISCREPANCIES OCCUR, THEY SHALL BE REPORTED TO ARCHITECT FOR RESOLUTION.
- DETAILED DRAWINGS AND LARGER SCALE DRAWINGS TAKE PRECEDENCE OVER SMALLER SCALE DRAWINGS.
- CONCRETE AND BRICK DIMENSIONS ARE GIVEN TO THE FACE OF CONCRETE OR MASONRY AND TO THE FACE OF ROUGH OPENINGS.
- PARTITION DIMENSIONS ARE GIVEN TO THE FACE OF STUD UNLESS OTHERWISE NOTED.
- DOOR OPENING LOCATIONS ARE DIMENSIONED TO ROUGH OPENING OR CENTERLINE OF OPENING.
- WHERE NO MATERIAL NOTES OCCUR, THE GRAPHIC MATERIAL INDICATION SHALL INDICATE MATERIAL TYPES AND ITEMS. SEE SYMBOL AND MATERIALS LIST ON THIS SHEET.
- THE U. S. ENVIRONMENTAL PROTECTION AGENCY MUST BE NOTIFIED 10 WORKING DAYS IN ADVANCE FOR ALL RENOVATIONS THAT DISTURB 250 L. F. /160 SQ. FT. /35 CU. FT. OF ASBESTOS CONTAINING MATERIALS.
- ALL NEW CONSTRUCTION TO COMPLY WITH THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (A.D.A.A.G.), ICC/ANSI A117.1-2010 (2018 IBC SECTION 1101).
- PROVIDE LANDINGS AND FLOOR LEVELS AT DOORS THAT COMPLY WITH THE 2018 IBC SECTION 1003.5/1010.1.6/1010.1.7. UNLESS OTHERWISE INDICATED ALL DRAWINGS, NOTES WHICH DO NOT READ "N.I.C.", "EXISTING", OR "EXISTING TO REMAIN", OR "BY OTHERS" SHALL INDICATE NEW WORK WHICH SHALL BE CONTRACTOR FURNISHED AND CONTRACTOR INSTALLED.
- ALL MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS. THE CONTRACTOR(S) SHALL KEEP ALL AREAS OF CONSTRUCTION CLEAN AND FREE OF DEBRIS. AFTER CONSTRUCTION IS COMPLETE, THE GENERAL CONTRACTOR SHALL PROVIDE FINAL CLEAN UP.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS FOR ACCURACY PRIOR TO COMMENCING WITH THE WORK. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
- PENETRATIONS THROUGH RATED ASSEMBLIES SHALL BE FIRE STOPPED IN ACCORDANCE WITH 2018 IBC SECTION 714.4.1 AND 714.4.1.2. PROVIDE A FIRE STOPPING SYSTEM APPROPRIATE FOR THE WORK BEING PERFORMED. PAINTABLE SEALANT SHALL BE PROVIDED AT ALL EXPOSED AREAS. PROVIDE COPIES OF THE SPECIFIC FIRE-STOP SYSTEMS PROPOSED FOR USE IN THIS PROJECT AT PENETRATIONS OF ONE-HOUR WALLS OR TWO-HOUR SHAFTS AND FLOOR ASSEMBLIES, FOR APPROVAL AND INSPECTION USE BY THE FIRE AND STRUCTURAL INSPECTORS. ASSEMBLIES SHALL SHOW ALL REQUIRED COMPONENTS AND METHOD OF INSTALLATION TO PROVIDE THE REQUIRED FIRE-RATING AS SYSTEM BEING PENETRATED.
- THIS SPACE MAY NOT BE OCCUPIED UNTIL IT RECEIVES A CERTIFICATE OF OCCUPANCY AND FIRE DEPARTMENT APPROVAL.
- CONTRACTOR SHALL NOT CORE DRILL WITHOUT VERIFYING LOCATION OF CONCRETE REINFORCING.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS AND FEES NECESSARY TO EXECUTE THE INTENT OF THESE CONSTRUCTION DOCUMENTS.
- EXIT SIGNAGE SHALL BE EXTERNALLY OR INTERNALLY ILLUMINATED BY THE PREMISES' WIRING, STORAGE BATTERIES AND, BE IN COMPLIANCE WITH 2018 IBC SECTION 1013.
- PROVIDE BLOCKING AS REQUIRED FOR ALL AREAS TO RECEIVE MILLWORK AND WALL-ATTACHED ITEMS AS SHOWN IN PLANS.
- ALL EXITS SHALL BE OPENABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT. 2018 IBC, SECTION 1010.1.9.
- EXIT WAYS SHALL BE ILLUMINATED. THE POWER SUPPLY FOR EXIT ILLUMINATION SHALL NORMALLY BE PROVIDED BY THE PREMISES' WIRING SYSTEM. 2018 IBC SECTION 1010.1.2.
- COORDINATE MECHANICAL AND ELECTRICAL REQUIREMENTS, ROUTING, AND FIELD VERIFICATION.
- WHERE NEW CONSTRUCTION JOINS WITH EXISTING CONSTRUCTION, ALIGN FINISHED SURFACE OF NEW CONSTRUCTION WITH EXISTING CONSTRUCTION.
- PROVIDE COPY OF FIRE-RESISTANCE RATING ASSEMBLY TO THE STRUCTURAL INSPECTOR FOR VERIFICATION OF TESTING LISTING COMPLIANCE AND TO INSPECT ASSEMBLY CONSTRUCTION THEREWITH.
- COORDINATE CONSTRUCTION ACTIVITIES WITH OWNER.
- FIRE SPRINKLER AND ALARM MODIFICATIONS REQUIRE SEPARATE APPLICATION AND PLAN SUBMITTALS PRIOR TO PERFORMING WORK. ALL LIFE-SAFETY FEATURES SHALL BE APPROVED BY THE FIRE AND STRUCTURAL INSPECTORS PRIOR TO OCCUPANCY.
- ALL CONSTRUCTION ADDENDA, CHANGE ORDERS, OR DESIGN CLARIFICATIONS TO THOSE ITEMS REGULATED BY THE CODES MUST BE SUBMITTED TO THE FIELD INSPECTOR FOR REVIEW AND APPROVAL PRIOR TO COMMENCING WITH ANY OF THE PROPOSED WORK RELATED TO THE PROPOSED FIELD CHANGE.
- SUSPENDED CEILING SYSTEMS TO BE INSTALLED IN ACCORDANCE WITH 2018 IBC SECTION 808.1.1.1 AND ASTM C 635 AND ASTM C 636.
- ALL INSULATION MATERIALS SHALL COMPLY WITH 2018 IBC SECTION 720.
- HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERABLE PARTS ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST TO OPERATE. SUCH HARDWARE SHALL BE AT 34" MINIMUM AND 48" MAXIMUM ABOVE THE FLOOR OR GROUND. 2018 IBC SECTION 1010.1.9.
- COMBUSTIBLE MATERIALS SHALL NOT BE USED IN CONCEALED SPACES UNLESS EVIDENCE OF COMPLIANCE WITH 2018 IBC SECTION 717.5 IS PROVIDED TO THE STRUCTURAL INSPECTOR FOR REVIEW AND APPROVAL.
- DECORATIVE MATERIALS AND TRIM SHALL BE RESTRICTED BY COMBUSTIBILITY AND THE FLAME PROPAGATION PERFORMANCE CRITERIA OF NFPA 701. IN ACCORDANCE WITH 2018 IBC SECTION 806. CONTRACTOR SHALL HAVE CERTIFICATE OF COMPLIANCE FOR DECORATIVE MATERIALS AND TRIM, INDICATING COMPLIANCE WITH THIS CODE SECTION AS APPLICABLE TO THIS PROJECT AVAILABLE AT PROJECT SITE.
- CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE EVIDENCE OF CODE COMPLIANCE OF RATING OF WALL AND CEILING FINISH MATERIALS AT CONSTRUCTION SITE FOR REVIEW BY FIRE AND STRUCTURAL FIELD INSPECTORS IN ACCORDANCE WITH 2018 IBC SECTION 803 AND TABLE 803.13.
- ACCESS TO MECHANICAL APPLIANCES INSTALLED IN UNDER-FLOOR AREAS, IN ATTIC SPACES AND ON ROOFS OR ELEVATED STRUCTURES SHALL BE IN ACCORDANCE WITH THE INTERNATIONAL MECHANICAL CODE.
- CONTROLS, OPERATING MECHANISMS AND HARDWARE INTENDED FOR OPERATION BY THE OCCUPANT, INCLUDING SWITCHES THAT CONTROL LIGHTING AND ACCESSIBLE.
- VENTILATION AND EXHAUST SYSTEMS SHALL BE PROVIDED AS REQUIRED BY THE INTERNATIONAL MECHANICAL CODE AND THE INTERNATIONAL FIRE CODE.

Plan Review Note
These plans have been reviewed for code compliance based on the submitted documents and plan sheets, and have been found to be, substantially code compliant, all other code compliance requirements shall be completed through field inspections, verifications, and approvals by the field building inspector.

See Plan Review notes: The plan review notes shall always be attached to the stamped approved plans and documents. These are part of the plans and shall be a permanent record with the plans. Inspection shall not take place without a complete set of the Idaho Division of Occupational and Professional Licenses (IDOPL) plan review notes and approved, stamped plans on site.

Construction Safeguards
Construction safeguards shall be required for any and all demolition and or construction to ensure public safety.
Required exits, existing structural elements, fire protection devices and sanitary safeguards shall be maintained at all times during alterations, repairs or additions to any building or structure.
All applicable construction safeguards from chapter 31 and 33 shall be in place and maintained while any demolition or construction activities are being undertaken.

CONTACT INFORMATION

ARCHITECTURE CSHQA 200 BROAD ST. BOISE, IDAHO 83702 (208) 343-4635 FAX: (208) 343-1858 CONTACT: JAMES A. MARSH, AIA EMAIL: james.marsh@CSHQA.com www.cshqa.com	OWNER IDAHO TRANSPORTATION DEPT. 11331 WEST CHINDEN BLVD. BOISE, IDAHO 83714 (208) 334-8600 FAX (208) 334-3858 CONTACT: TONY PIRC EMAIL: tony.pirc@td.idaho.gov td.idaho.gov
STRUCTURAL AXIOM 121 N. 9TH ST. #401, BOISE ID 83702 (208)-539-4520 CONTACT: JARED BRANDAU, PE, SE EMAIL: brandau@axiomplc.com www.axiomplc.com	MECHANICAL MUSGROVE ENGINEERING, PE 234 S WHISPERWOOD WAY, BOISE, ID 83709 (208) 384-0585 FAX: (208) 384-0765 CONTACT: TODD NELSON EMAIL: toddn@musgrovepa.com https://musgrovepa.com
ELECTRICAL MUSGROVE ENGINEERING, PA 234 S WHISPERWOOD WAY, BOISE, ID 83709 (208) 384-0585 FAX: (208) 384-0765 CONTACT: KURT LECHTENBERG EMAIL: kurtl@musgrovepa.com https://musgrovepa.com/	

SITE LOCATION



DRAWING INDEX

GENERAL G00 TITLE SHEET	
DEMO - ARCHITECTURAL AS21 DEMO PLAN ARCHITECTURE LEVEL 1 AS22 DEMO PLAN ARCHITECTURE LEVEL 2	
ARCHITECTURAL A10 OVERALL PLANS A51 EXTERIOR ELEVATIONS A71 STAIR & CANOPY A72 ELEVATOR DETAILS A79 STAIR DETAILS A82 DOOR & WINDOW SCHEDULES	
STRUCTURAL S0.01 STRUCTURAL COVER SHEET S0.02 GENERAL NOTES S0.03 GENERAL NOTES S0.04 GENERAL NOTES S0.05 GENERAL NOTES S1.01 FOUNDATION PLAN S1.02 LEVEL 2 FRAMING PLAN S1.03 ROOF FRAMING PLAN S1.04 SECTIONS S1.05 CONCRETE DETAILS S1.06 ROOF DETAILS S1.07 ROOF DETAILS S1.08 ROOF DETAILS S1.09 STEEL DETAILS	
MECHANICAL M00.1 MECHANICAL COVER SHEET M11.1 HVAC FIRST FLOOR PLAN M21.1 HVAC NEW FLOOR AND ROOF PLANS M20.1 HVAC DETAILS AND SCHEDULES	
ELECTRICAL E00.1 ELECTRICAL COVERSHEET E01.1 LIGHTING COMPLIANCE E10.1 ELECTRICAL OVERALL PLAN E21.1 ELECTRICAL DEMO FLOOR PLANS E31.1 ELECTRICAL FLOOR PLANS E80.1 ELECTRICAL DETAILS AND SCHEDULES	

MATERIALS & SYMBOLS

	EARTH		WINDOW TYPE, RE: A82 WINDOW TYPES
	POROUS FILL - GRAVEL		DOOR NUMBER, RE: A82 DOOR SCHEDULE
	SAND FILL		MATERIAL FINISH, RE: A81 & I81 FINISH SCHEDULE
	CONCRETE		
	CONCRETE MASONRY UNIT (NORMAL WEIGHT)		RELATED SPECIFICATION DIVISION
	SINGLE GLAZING		RELATED SPECIFICATION SECTION
	INSULATED GLAZING		SHEET NOTE, RE: SHEET NOTES LIST ON CURRENT PAGE
	METAL (LARGE SCALE DRAWING)		SHEET NOTE
	METAL (SMALL SCALE DRAWING)		WALL TYPE, RE: A21 FOR WALL TYPES WITH VARIABLE HEIGHT, SEE TOP OF WALL ELEVATION
	FRAMING LUMBER		ACCESSORY/FIXTURE TYPE, RE: A42
	PLYWOOD		REVISION KEY RE: REVISED BOX IN TITLE BLOCK OF CURRENT PAGE
	PARTICLE BOARD		PROPERTY LINE
	FINISH LUMBER		SWALE/FLOW LINE
	GYPSEUM BOARD		TRENCH DRAIN
	ACOUSTIC TILE/PANEL		AREA DRAIN / CATCH BASIN
	BATT INSULATION		FLUSH SURFACE MEETING
	SEMI-RIGID INSULATION		BUILDING GRID LINE
	RIGID INSULATION		STRUCTURE CENTERLINE
	MOISTURE BARRIER		ELEVATION POINT
	ASPHALT PAVING		DRAWING MATCH LINE
			WALL SECTION MARK REF. (SEE DWG. #1 @ SHT. A63)
			WALL SECTION MARK REF. (SEE DWG. #1 @ SHT. A61)
			WALL SECTION MARK REF. (SEE DWG. #1 @ SHT. A63)
			DETAIL REFERENCE (SEE DWG. #1 @ SHT. A71)
			DETAIL SECTION MARK
			INTERIOR ELEVATIONS SEE DWG. #1 @ SHT. I51, I52, I53
	ROOM NAME		ROOM NUMBER
	ACCESSORY USE		
	AREA OF ROOM		
	NUMBER OF OCCUPANTS		
	OCCUPANCY FACTOR		

PROJECT DESCRIPTION

SCOPE OF WORK INCLUDES BUILDING IMPROVEMENTS AND NEW ELEVATOR SHAFT AT THE EXISTING SHOP BUILDING ON THE DISTRICT 3 CAMPUS. THE PURPOSE IS TO PREPARE THE BUILDING TO HAVE ACCESS TO THE SECOND FLOOR FOR POSSIBLE TENANT IMPROVEMENTS IN THE FUTURE.

THE WORK INCLUDES:

- RELOCATION OF AN EXISTING STAIRWAY
- NEW EXTERIOR DOOR AND LANDING INFILL TO ACCOMMODATE RELOCATED STAIRWAY
- NEW STAIRWAY AT BUILDING ENTRY
- NEW CANOPY AT BUILDING ENTRY
- REPLACE EXISTING CONVEYING SYSTEM WITH NEW ELEVATOR. THIS INCLUDES DEMOLITION OF EXISTING SLAB AND ROOF TO ACCOMMODATE ELEVATOR SHAFT REQUIREMENTS PER MFG.
- NEW DOOR AT EXITING FIRST LEVEL LOBBY
- BEFORE OCCUPANCY, A FIRE SPRINKLER SYSTEM WILL BE INSTALLED.

CODE DATA

CODE REFERENCES ARE THOSE CURRENTLY ADOPTED BY CITY OF BOISE.

2018 INTERNATIONAL BUILDING CODE (IBC)
2018 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)
2017 UNIFORM PLUMBING CODE (UPC)
2018 INTERNATIONAL MECHANICAL CODE (IMC)
2018 INTERNATIONAL FUEL GAS CODE (IFGC)
2017 NATIONAL ELECTRICAL CODE (NEC)
2018 INTERNATIONAL EXISTING BUILDING CODE (IEBC)
2018 IEBC COMPLIANCE PATH: OPTION 2: WORK FOR ALTERATION CHANGE OF OCCUPANCY OR ADDITION OF ALL EXISTING BUILDINGS SHALL BE DONE IN ACCORDANCE WITH THE WORK AREA COMPLIANCE METHOD GIVEN IN CHAPTERS 6 THROUGH 12.

PROJECT ADDRESS: 8150 WEST CHINDEN BOULEVARD

BUILDING USE: VEHICLE MAINTENANCE AND REPAIR (NO CHANGE)

CONSTRUCTION TYPE: III-B (NO CHANGE)

OCCUPANCY GROUP: F1 (EXISTING)

NUMBER OF STORIES: 2 (NO CHANGE)

BUILDING AREA: 34,165 SF (NO CHANGE)

FIRE SPRINKLER: NO (FUTURE WITH TENANT IMPROVEMENT)

OCCUPANCY LOADING: 110 (NO CHANGE)

ORIGINAL DOCUMENT SIGNED BY ARCHITECT ON FILE WITH THE ORIGINAL SIGNED BY: JAMES A. MARSH - MARCH 27, 2024

JAMES MARSH, ARCHITECT
200 BROAD STREET
BOISE, IDAHO
PHONE: 208-343-4635 • FAX: 208-343-1858

THESE DRAWINGS ARE THE PROPERTY OF ARCHITECT JAMES MARSH AND SHALL REMAIN THE PROPERTY OF ARCHITECT JAMES MARSH WHETHER OR NOT THESE DRAWINGS AND SPECIFICATIONS SHALL BE USED FOR ANY OTHER PROJECTS OR FOR ANY PROJECTS. NO PART OF THESE DRAWINGS OR SPECIFICATIONS SHALL BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, WITHOUT THE WRITTEN CONSENT OF CSHQA ON ITS AFFILIATES.
Copyright © 2022

ITD DIST. 3 BLDG. IMPROVEMENT
8150 WEST CHINDEN BLVD
GARDEN CITY, ID

200 BROAD STREET
BOISE, ID 83702
FAX: (208) 343-1858
http://www.cshqa.com

(208) 343-4635 • FAX (208) 343-1858

CSHQA

BUILDING IMPROVEMENT PERMIT SET

PROJECT	23002	DATE	10-30-23
DRAWN	SS	CHECKED	LB

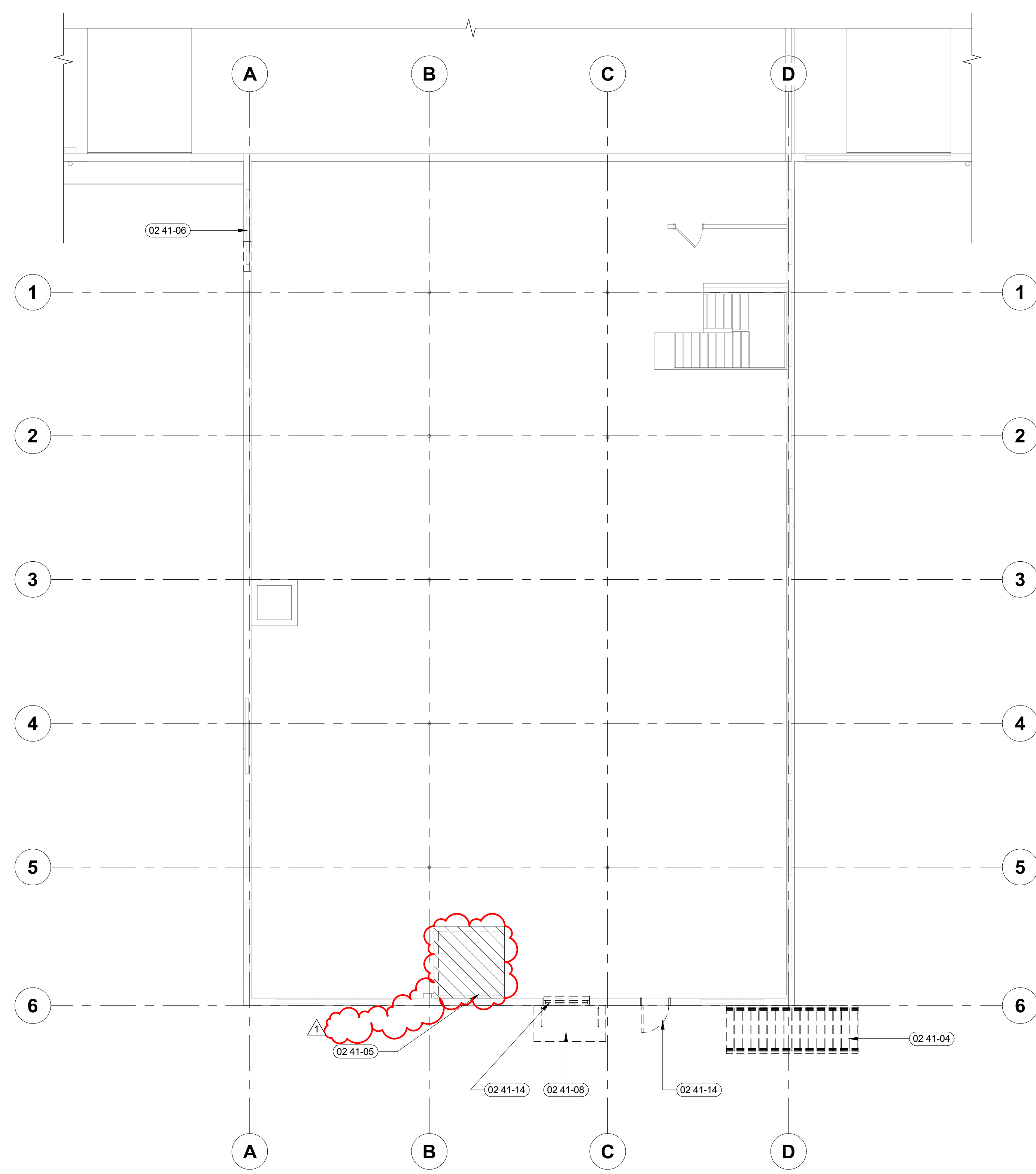
REVISED	1_E_BACK CHECK 1	03/27/24
---------	------------------	----------

TITLE SHEET

SHEET

G.00

ORIGINAL SHEET SIZE
24" x 36"



1 DEMO PLAN - LEVEL 2
 1/8" = 1'-0"

LEGEND:

- SCREENED LINES INDICATE EXISTING ASSEMBLIES/SYSTEMS TO REMAIN AND BE PROTECTED DURING CONSTRUCTION.
- INDICATES ASSEMBLIES/SYSTEMS TO BE DEMOLISHED
- SHEET NOTE, RE: SHEET NOTES LIST ON CURRENT PAGE

GENERAL NOTES:

- PROTECT IN PLACE ALL EXISTING ELEMENTS TO REMAIN. PATCH AND REPAIR ALL ITEMS TO MEET NEW CONSTRUCTION.
- COORDINATE WITH OWNER ITEMS TO BE SALVAGED AND STORAGE LOCATIONS.
- ALL DEMOLISHED MATERIALS ARE TO BE REMOVED FROM THE SITE BY THE CONTRACTOR, UNLESS NOTED OTHERWISE OR DIRECTED BY THE OWNER OR ARCHITECT.
- TYPE AND LOCATION OF EXISTING UTILITIES IS BASED ON BEST AVAILABLE INFORMATION. CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY AND LOCATE ALL EXISTING CONDITIONS PRIOR TO DEMOLITION. COORDINATE WITH OWNER FOR SCHEDULING OF DISCONNECTION OF SERVICES.
- THIS PLAN SHOWS GENERAL DEMOLITION WORK TO BE PERFORMED AND DOES NOT RELIEVE THE CONTRACTOR FROM OTHER DEMOLITION WORK REQUIRED TO PRODUCE THE BUILDING MODIFICATIONS SHOWN ON THE REMAINING CONTRACT DOCUMENTS.
- ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE LOCALLY ADOPTED CODES.
- PROVIDE A TEMPORARY DUST PARTITION TO PREVENT DUST AND DEBRIS FROM SETTLING ON ADJACENT AREAS NOT UNDER CONSTRUCTION AND AS DIRECTED AND APPROVED BY THE OWNER'S REPRESENTATIVE.
- DESIGN IS BASED ON BEST AVAILABLE INFORMATION. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS TO DETERMINE STATUS OF ACTUAL CONDITIONS AS IT RELATES TO THE SCOPE OF WORK SHOWN ON THESE PLANS.
- ADJACENT EXISTING SHOP AND OFFICE AREAS ARE TO REMAIN OPEN. COORDINATE ALL DISRUPTIONS WITH UTILITY SERVICES WITH 10 DAYS PRIOR TO SCHEDULED DISRUPTION.
- DEMOLITION CONTRACTOR SHALL OBTAIN ALL PERMITS NECESSARY TO COMPLETE HIS WORK. IN ADDITION, DEMOLITION CONTRACTOR SHALL OBTAIN ALL CERTIFICATES OF SEVERANCE OF ALL UTILITY SERVICES AS PART OF HIS WORK, AND SHALL SUBMIT TO THE ARCHITECT AND OWNER HIS DEMOLITION PROCEDURES AND OPERATIONAL SEQUENCE FOR APPROVAL.
- FOR ELECTRICAL, MECHANICAL, AND PLUMBING ATTACHED TO FIXTURES THAT ARE TO BE DEMOLISHED, DETACH AND CAP TO COMPLY WITH UTILITY PROVIDER AND APPLICABLE CODE.
- MAINTAIN ALL EGRESS COMPONENTS FOR EXISTING TENANTS AND PROVIDE REQUIRED ACCESSIBLE PATH TO THE PUBLIC RIGHT OF WAY.
- CONTRACTOR SHALL PREVENT EROSION AND SEDIMENTATION DUE TO STORMWATER. LEAVING THE SITE PRECAUTIONS SHALL CONFORM TO THE CITY OF BOISE'S BEST MANAGEMENT PRACTICES, (BMPS). EXISTING DRAIN INLETS SHALL BE PROTECTED FROM DAMAGE, DEBRIS AND SEDIMENT DURING CONSTRUCTION.
- PROVIDE OVERHEAD DEMO PROTECTION, FOR RIGHT OF WAY PEDESTRIANS.

SHEET NOTES:

- 02 41-04 REMOVE EXISTING STAIR FOR RELOCATION PER FLOOR PLAN. SEE SHEET A10
- 02 41-05 REMOVE EXISTING ELEVATOR AND ELEVATOR SUPPORTS TO CLEAR SHAFT OPENING
- 02 41-06 REMOVE EXISTING WINDOW AND SAW-CUT OPENING IN WALL FOR NEW DOOR
- 02 41-08 REMOVE EXISTING AWNING, PATCH EXTERIOR WALL TO MATCH EXISTING PAINT AS NEEDED
- 02 41-14 REMOVE EXISTING DOOR FOR RELOCATION PER FLOOR PLAN. SEE SHEET A10

ORIGINAL DOCUMENT SIGNED BY ARCHITECT ON FILE WITH THE ARCHITECT
 ORIGINAL SIGNED BY: JAMES A MARSH
 ORIGINAL DATE SIGNED: MARCH 27, 2024
 LICENSED ARCHITECT AS88413
 JAMES MARSH
 STATE OF IDAHO
 MARCH 27, 2024

JAMES MARSH, ARCHITECT
 200 BROAD STREET
 BOISE, IDAHO
 PHONE: 208-343-4635 • FAX: 208-343-1658
 WWW.CSHQA.COM
 THE ARCHITECT'S SERVICES ARE LIMITED TO THE PROJECT AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT/ENGINEER UNLESS OTHERWISE SPECIFIED. THESE DRAWINGS AND SPECIFICATIONS SHALL NOT BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN CONSENT OF CSHQA OR ITS AFFILIATES.
 Copyright © 2022

ITD DIST. 3 BLDG. IMPROVEMENT
8150 WEST CHINDEN BLVD GARDEN CITY, ID
CSHQA
 200 BROAD STREET
 BOISE, ID 83702
 (208) 343-4635 • FAX (208) 343-1658
 http://www.cshqa.com

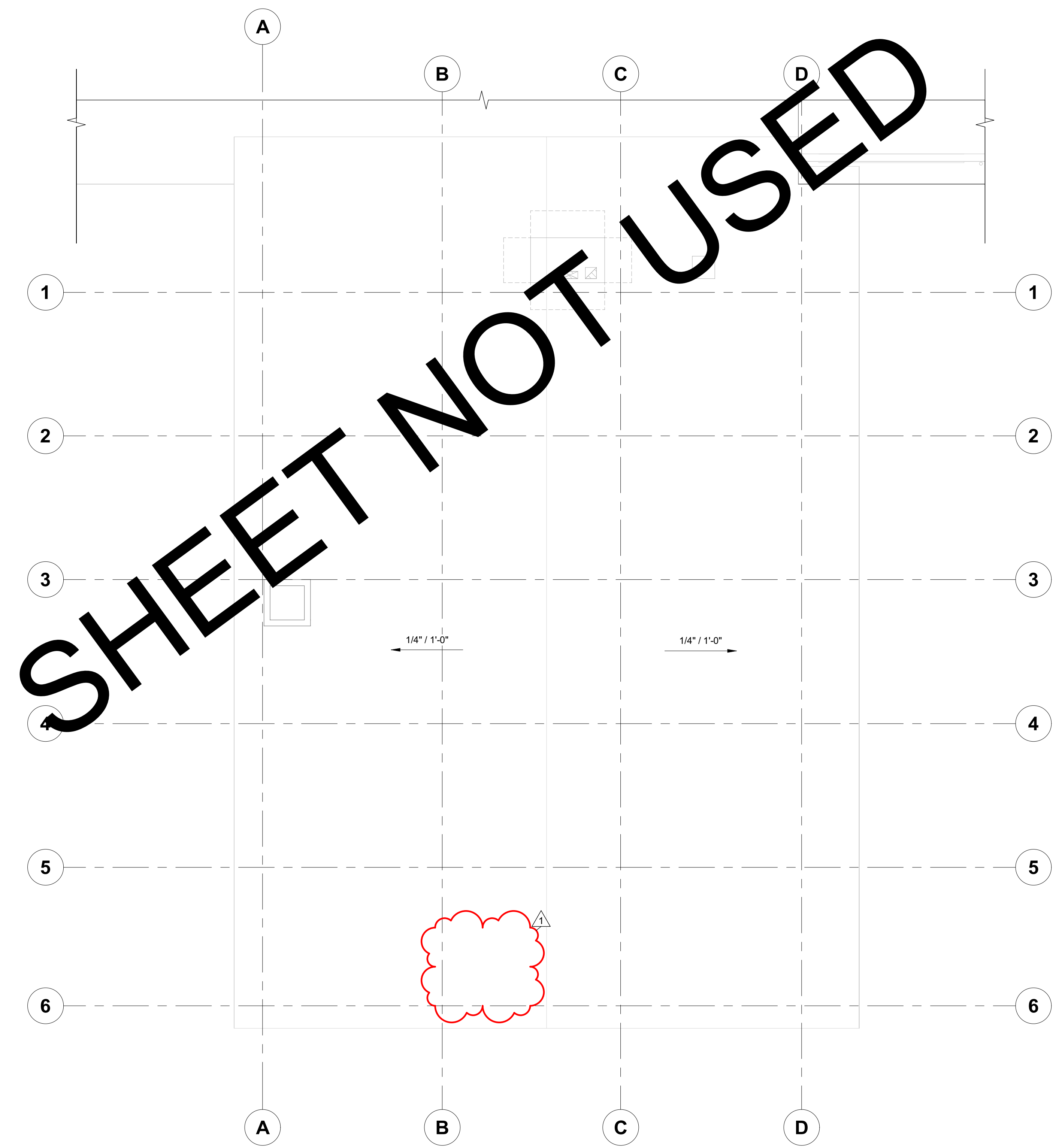
BUILDING IMPROVEMENT PERMIT SET

PROJECT 23002	DATE 10-30-23
DRAWN SS	CHECKED LB
REVISED 1 E_BACK CHECK 1	03/27/24

DEMO PLAN
ARCHITECTURAL
LEVEL 2

SHEET
AS22
 ORIGINAL SHEET SIZE
 24" x 36"

DO NOT STAMP



1 DEMO PLAN - ROOF
 1/8" = 1'-0"

LEGEND:

- SCREENED LINES INDICATE EXISTING ASSEMBLIES/SYSTEMS TO REMAIN AND BE PROTECTED DURING CONSTRUCTION.
- INDICATES ASSEMBLIES/SYSTEMS TO BE DEMOLISHED
- SHEET NOTE, RE: SHEET NOTES LIST ON CURRENT PAGE

GENERAL NOTES:

- A. PROTECT IN PLACE ALL EXISTING ELEMENTS TO REMAIN. PATCH AND REPAIR ALL ITEMS TO MEET NEW CONSTRUCTION.
- B. COORDINATE WITH OWNER ITEMS TO BE SALVAGED AND STORAGE LOCATIONS.
- C. ALL DEMOLISHED MATERIALS ARE TO BE REMOVED FROM THE SITE BY THE CONTRACTOR, UNLESS NOTED OTHERWISE OR DIRECTED BY THE OWNER OR ARCHITECT.
- D. TYPE AND LOCATION OF EXISTING UTILITIES IS BASED ON BEST AVAILABLE INFORMATION. CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY AND LOCATE ALL EXISTING CONDITIONS PRIOR TO DEMOLITION. COORDINATE WITH OWNER FOR SCHEDULING OF DISCONNECTION OF SERVICES.
- E. THIS PLAN SHOWS GENERAL DEMOLITION WORK TO BE PERFORMED AND DOES NOT RELIEVE THE CONTRACTOR FROM OTHER DEMOLITION WORK REQUIRED TO PRODUCE THE BUILDING MODIFICATIONS SHOWN ON THE REMAINING CONTRACT DOCUMENTS.
- F. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE LOCALLY ADOPTED CODES.
- G. PROVIDE A TEMPORARY DUST PARTITION TO PREVENT DUST AND DEBRIS FROM SETTLING ON ADJACENT AREAS NOT UNDER CONSTRUCTION AND AS DIRECTED AND APPROVED BY THE OWNER'S REPRESENTATIVE.
- H. DESIGN IS BASED ON BEST AVAILABLE INFORMATION. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS TO DETERMINE STATUS OF ACTUAL CONDITIONS AS IT RELATES TO THE SCOPE OF WORK SHOWN ON THESE PLANS.
- I. ADJACENT EXISTING SHOP AND OFFICE AREAS ARE TO REMAIN OPEN. COORDINATE ALL DISRUPTIONS WITH UTILITY SERVICES WITH 103 DAYS PRIOR TO SCHEDULED DISRUPTION.
- J. DEMOLITION CONTRACTOR SHALL OBTAIN ALL PERMITS NECESSARY TO COMPLETE HIS WORK. IN ADDITION, DEMOLITION CONTRACTOR SHALL OBTAIN ALL CERTIFICATES OF SEVERANCE OF ALL UTILITY SERVICES AS PART OF HIS WORK, AND SHALL SUBMIT TO THE ARCHITECT AND OWNER HIS DEMOLITION PROCEDURES AND OPERATIONAL SEQUENCE FOR APPROVAL.
- K. FOR ELECTRICAL, MECHANICAL, AND PLUMBING ATTACHED TO FIXTURES THAT ARE TO BE DEMOLISHED, DETACH AND CAP TO COMPLY WITH UTILITY PROVIDER AND APPLICABLE CODE.
- L. MAINTAIN ALL EGRESS COMPONENTS FOR EXISTING TENANTS AND PROVIDE REQUIRED ACCESSIBLE PATH TO THE PUBLIC RIGHT OF WAY.
- M. CONTRACTOR SHALL PREVENT EROSION AND SEDIMENTATION DUE TO STORMWATER, LEAVING THE SITE PRECAUTIONS SHALL CONFORM TO THE CITY OF BOISE'S BEST MANAGEMENT PRACTICES, (BMPS). EXISTING DRAIN INLETS SHALL BE PROTECTED FROM DAMAGE, DEBRIS AND SEDIMENT DURING CONSTRUCTION.
- N. PROVIDE OVERHEAD DEMO PROTECTION, FOR RIGHT OF WAY PEDESTRIANS.

###-##-## SHEET NOTES:

ORIGINAL DOCUMENT SIGNED BY ARCHITECT ON FILE WITH THE ARCHITECT
 ORIGINAL SIGNED BY: JAMES A MARSH
 ORIGINAL DATE SIGNED: MARCH 27, 2024
 LICENSED ARCHITECT AS88113
 JAMES MARSH
 STATE OF IDAHO
 MARCH 27, 2024

JAMES MARSH, ARCHITECT
 200 BROAD STREET
 BOISE, IDAHO
 PHONE: 208-343-4635 • FAX: 208-343-1658
 http://www.cshqa.com
 THE ARCHITECT'S PROFESSIONAL LIABILITY INSURANCE POLICY SHALL REMAIN THE PROPERTY OF THE ARCHITECT/ENGINEER. WHETHER OR NOT THESE DRAWINGS AND SPECIFICATIONS SHALL BE USED FOR ANY PROJECTS, THE ARCHITECT/ENGINEER SHALL NOT BE RESPONSIBLE FOR ANY DAMAGE TO THE PROJECT, OR THE WRITTEN CONSENT OF CSHQA OR ITS AFFILIATES.
 Copyright © 2022

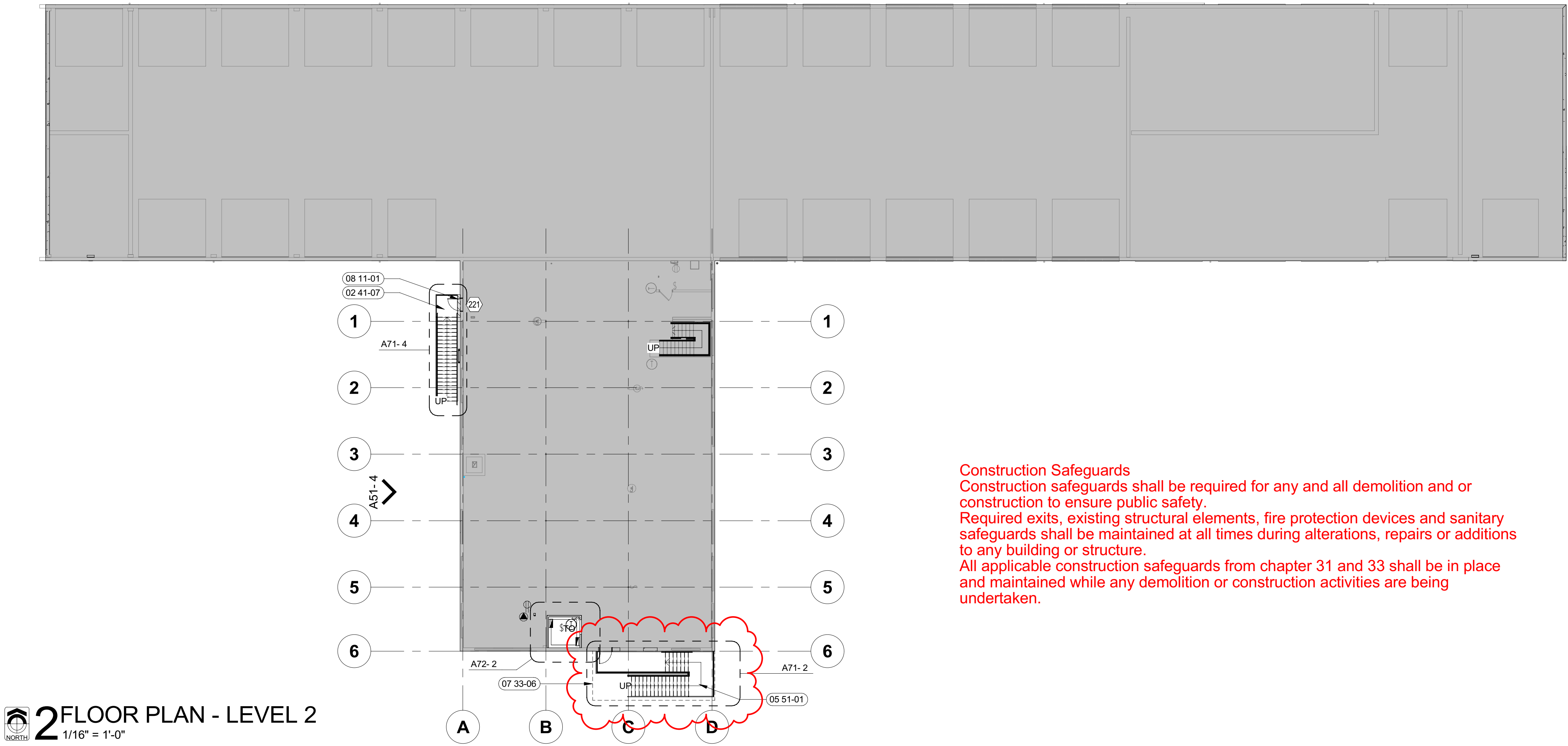
ITD DIST. 3 BLDG. IMPROVEMENT
8150 WEST CHINDEN BLVD GARDEN CITY, ID
CSHQQA

BUILDING IMPROVEMENT PERMIT SET

PROJECT 23002	DATE 10-30-23
DRAWN SS	CHECKED LB
REVISED 1 E_BACK CHECK 1 03/27/24	

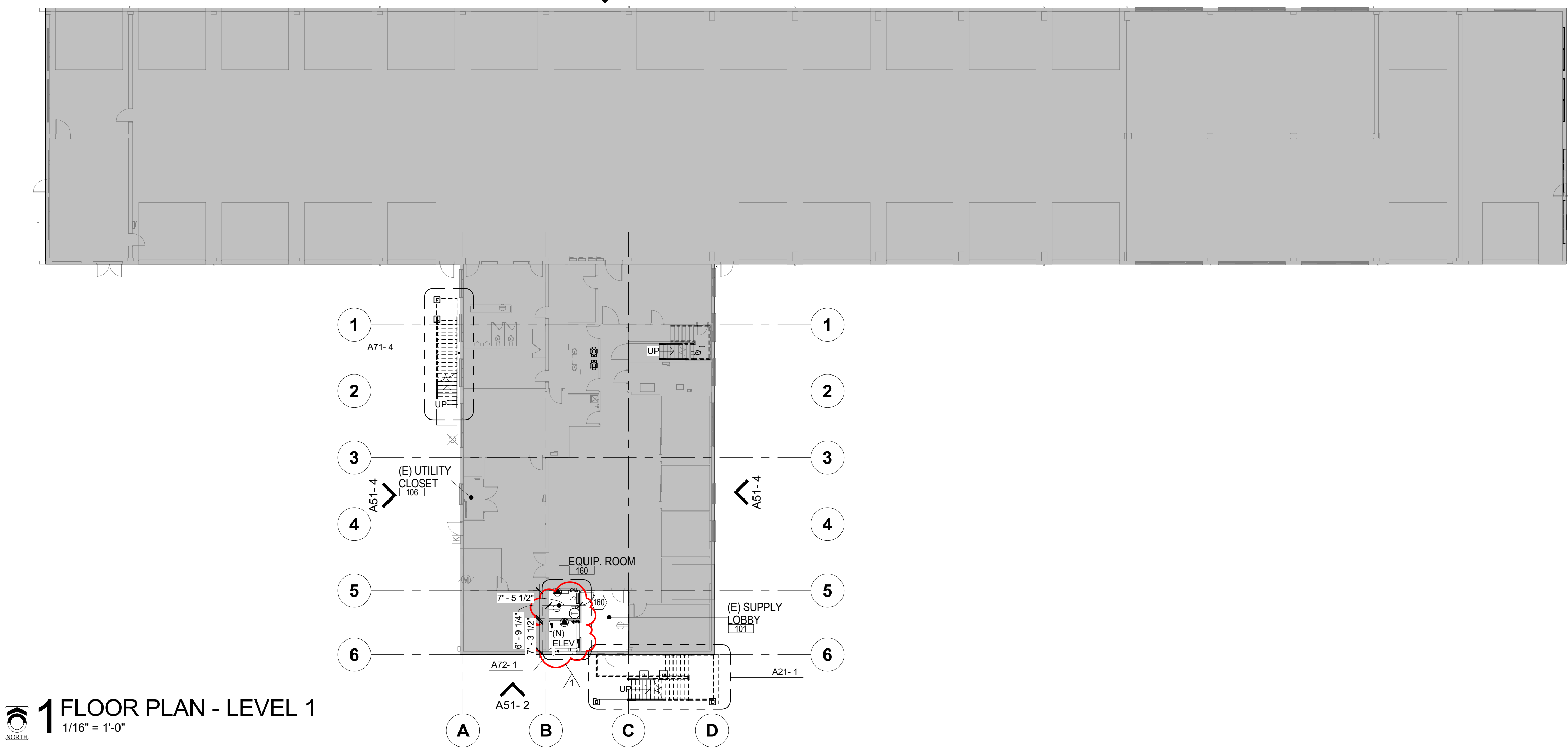
DEMO PLAN ARCHITECTURAL ROOF

SHEET
AS23
 ORIGINAL SHEET SIZE
 24" x 36"



2 FLOOR PLAN - LEVEL 2
 1/16" = 1'-0"

Construction Safeguards
 Construction safeguards shall be required for any and all demolition and or construction to ensure public safety.
 Required exits, existing structural elements, fire protection devices and sanitary safeguards shall be maintained at all times during alterations, repairs or additions to any building or structure.
 All applicable construction safeguards from chapter 31 and 33 shall be in place and maintained while any demolition or construction activities are being undertaken.



1 FLOOR PLAN - LEVEL 1
 1/16" = 1'-0"

LEGEND:

- SCREENED LINES INDICATE EXISTING ASSEMBLIES/SYSTEMS TO REMAIN AND BE PROTECTED DURING CONSTRUCTION.
- INDICATES ASSEMBLIES/SYSTEMS TO BE CONSTRUCTED
- DOOR NUMBER, RE: A82 DOOR SCHEDULE
- EXISTING CONSTRUCTION, NO WORK SCHEDULED, FOR REFERENCE ONLY.

GENERAL NOTES:

- A. FINISH FLOOR ELEVATION (100.00) IS FOR REFERENCE ONLY.
- B. GC TO VERIFY ALL AS-BUILT DIMENSION ON SITE
- C. THE HINGE SIDE OF ALL DOOR FRAMES SHALL BE MOUNTED 4" FROM ADJACENT PERPENDICULAR WALL UNLESS NOTED OTHERWISE.

ORIGINAL DOCUMENT SIGNED BY ARCHITECT ON FILE WITH THE ORIGINAL SIGNED BY: JAMES A MARSH - MARCH 27, 2024
 LICENSED ARCHITECT ARCHITECT ID: 888113
 ORIGINAL DATE SIGNED: JAMES A MARSH - MARCH 27, 2024
 STATE OF IDAHO
 STATE EP 0460

JAMES MARSH, ARCHITECT
 200 BROAD STREET
 BOISE, IDAHO
 PHONE: 208-343-4635 • FAX: 208-343-1658
 http://www.cshqa.com
 I AM AN EQUAL OPPORTUNITY AFFIRMATIVE ACTION EMPLOYER. I DO NOT DISCRIMINATE ON THE BASIS OF RACE, SEX, RELIGION, NATIONAL ORIGIN, ANCESTRY, COLOR, AGE, OR HANDICAP. I AM AN EQUAL OPPORTUNITY AFFIRMATIVE ACTION EMPLOYER. I DO NOT DISCRIMINATE ON THE BASIS OF RACE, SEX, RELIGION, NATIONAL ORIGIN, ANCESTRY, COLOR, AGE, OR HANDICAP. I AM AN EQUAL OPPORTUNITY AFFIRMATIVE ACTION EMPLOYER. I DO NOT DISCRIMINATE ON THE BASIS OF RACE, SEX, RELIGION, NATIONAL ORIGIN, ANCESTRY, COLOR, AGE, OR HANDICAP.
 Copyright © 2022

ITD DIST. 3 BLDG. IMPROVEMENT
8150 WEST CHINDEN BLVD GARDEN CITY, ID
CSHOA
 200 BROAD STREET
 BOISE, ID 83702
 (208) 343-4635 • FAX (208) 343-1658
 http://www.cshqa.com


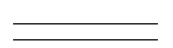
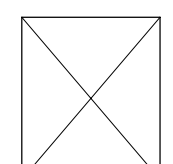
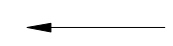
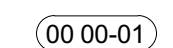
BUILDING IMPROVEMENT PERMIT SET

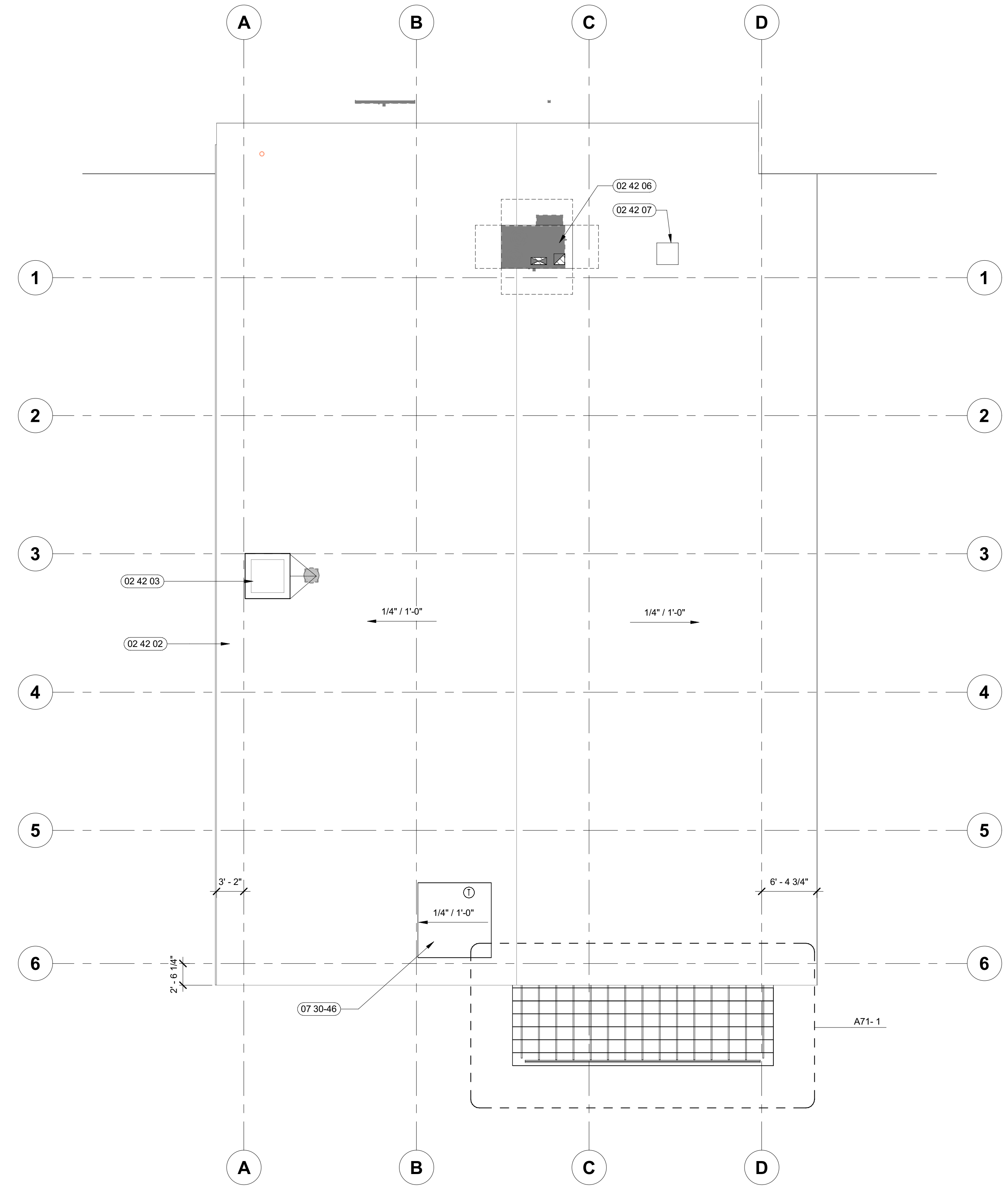
PROJECT	DATE
23002	10-30-23
DRAWN	CHECKED
SS	LB
REVISED	
1 E_BACK CHECK 1	03/27/24

SHEET TITLE
OVERALL PLANS

SHEET
A10
 ORIGINAL SHEET SIZE
 24" x 36"

LEGEND:

-  SCREENED LINES INDICATE EXISTING ASSEMBLIES/SYSTEMS TO REMAIN AND BE PROTECTED DURING CONSTRUCTION.
-  INDICATES ASSEMBLIES/SYSTEMS TO BE CONSTRUCTED
-  NEW SKYLIGHT ON NEW OR EXISTING CURBED OPENING
-  ROOF SLOPE
-  SHEET NOTE, RE: SHEET NOTES LIST ON CURRENT PAGE



1 ENLARGED ROOF PLAN
 1/8" = 1'-0"

GENERAL NOTES:

- A. CONTRACTOR TO VERIFY & COORDINATE DUCT LAYOUT WITH CURB AND ROOF PENETRATION LOCATIONS, REFER ALSO TO REFRIGERATION DRAWINGS FOR REFRIGERATION PIPING REQUIREMENTS AND COORDINATION.
- B. SEE STRUCTURAL FRAMING PLAN FOR ROOF DECK HEIGHTS TO ESTABLISH ROOF SLOPES AND ROOF MEMBER LOCATIONS.
- C. MAINTAIN ALL ROOF PENETRATIONS 3'-0" OR GREATER FROM FLOW LINES
- D. PREFABRICATED CURBS (FOR ROOF TOP MECHANICAL & REFRIGERATION EQUIPMENT SHALL BE INSTALLED BY GENERAL CONTRACTOR AND SET LEVEL.
- E. ALL DIMENSIONS ARE FOR GENERAL ARRANGEMENT & LOCATION ONLY. ACTUAL REQUIREMENTS & DIMENSIONS SHOULD BE VERIFIED AND COORDINATED WITH EQUIPMENT, SHOP DRAWING SUBMITTALS AND STRUCTURAL FRAMING.
- F. ALL PLANES OF ROOF SHALL SLOPE MIN. 1/4 "L.F. TO DRAINS OR GUTTER, CW/ STRUCTURAL DRAWINGS
- G. NO PLUMBING VENTS OR EXHAUST UNITS WITHIN 10'-0" OF INTAKE OR 10'-0" OF EXTERIOR WALL.
- H. FABRICATE SHEET METAL CURB CAPS TO ALLOW FOR THICKNESS OF ROOFING PLY EXTENDING UP CURB FACE, RE: ____
- I. SCUPPER SILLS AND OVERFLOW DRAIN RIMS SHALL BE 2" ABOVE PRIMARY ROOF DRAIN RIMS. COORDINATE AND VERIFY INSTALLATIONS.
- J. COORDINATE ROOF CURBS WITH HVAC EQUIPMENT.
- K. PROVIDE 1/2" WIDE GAP IN 2 x PARAPET NAILER AT ROOF CONTROL JOINT.
- L. ALL ROOF OPENINGS GREATER THAN 12"x12" SHALL BE FRAMED WITH STEEL ANGLES, RE: STRUCTURAL DRAWINGS.

SHEET NOTES:

##-##-##

- 02 42 02 EXISTING ROOF STRUCTURE TO REMAIN
- 02 42 03 EXISTING CHIMNEY TO REMAIN
- 02 42 06 EXISTING MECHANICAL
- 02 42 07 EXISTING ROOF SCUTTLE
- 07 30-46 BUILT-UP ASPHALT ROOFING

LICENSED ARCHITECT ARCHITECT ON FILE WITH THE ARCHITECTURE BOARD OF THE STATE OF IDAHO
 ORIGINAL SIGNED BY: JAMES A MARSH
 ORIGINAL DATE SIGNED: NOVEMBER 08, 2023

JAMES MARSH, ARCHITECT
 200 BROAD STREET
 BOISE, IDAHO
 PHONE: 208-343-4635 • FAX: 208-343-1658

ITD DIST. 3 BLDG. IMPROVEMENT
BOISE, ID
 8150 West Chinden Boulevard
 (208) 343-4635 • FAX (208) 343-1658
 http://www.cshoa.com

CSHOA

BUILDING IMPROVEMENT PERMIT SET

PROJECT	DATE
23002	10-30-23
DRAWN	CHECKED
SS	LB

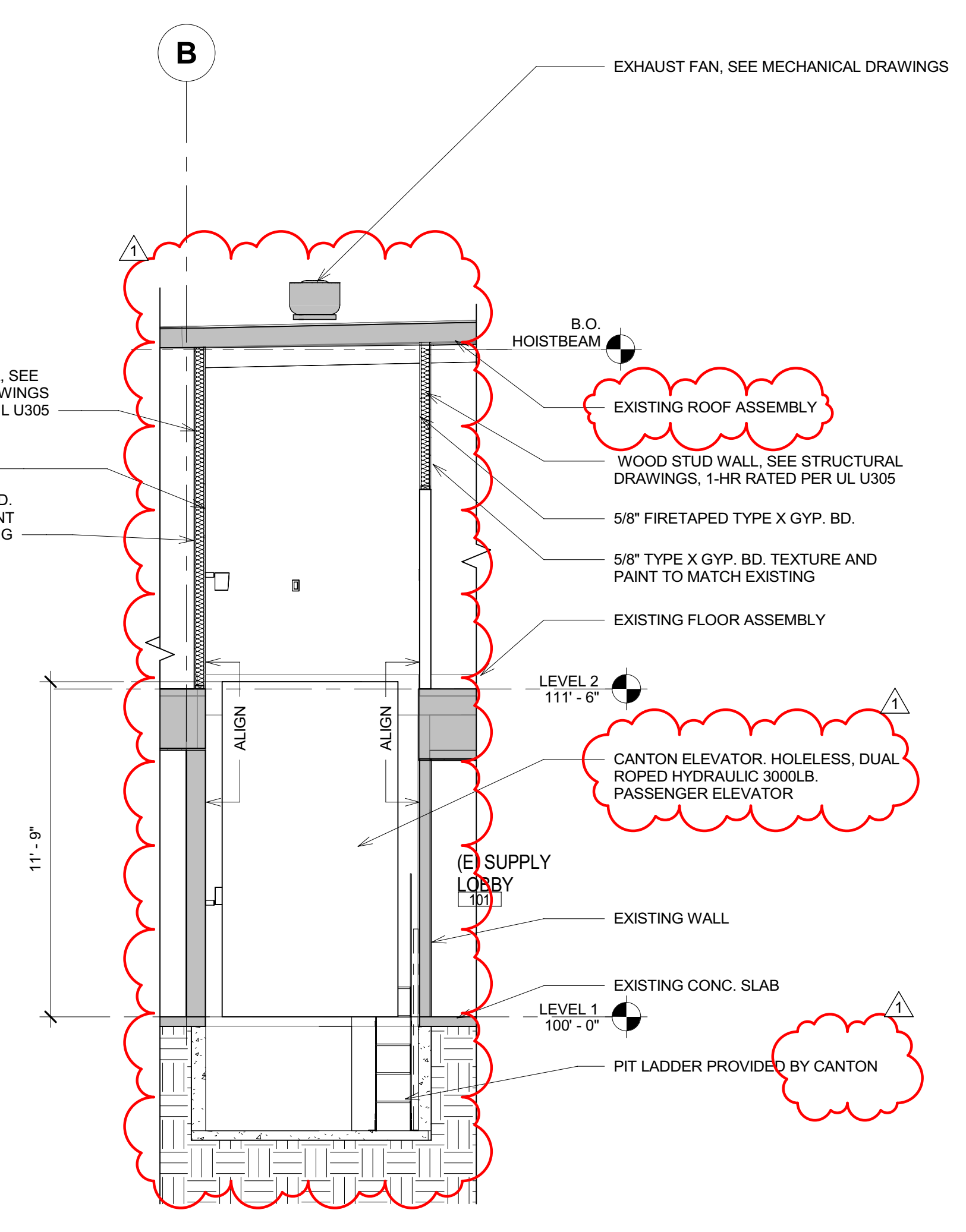
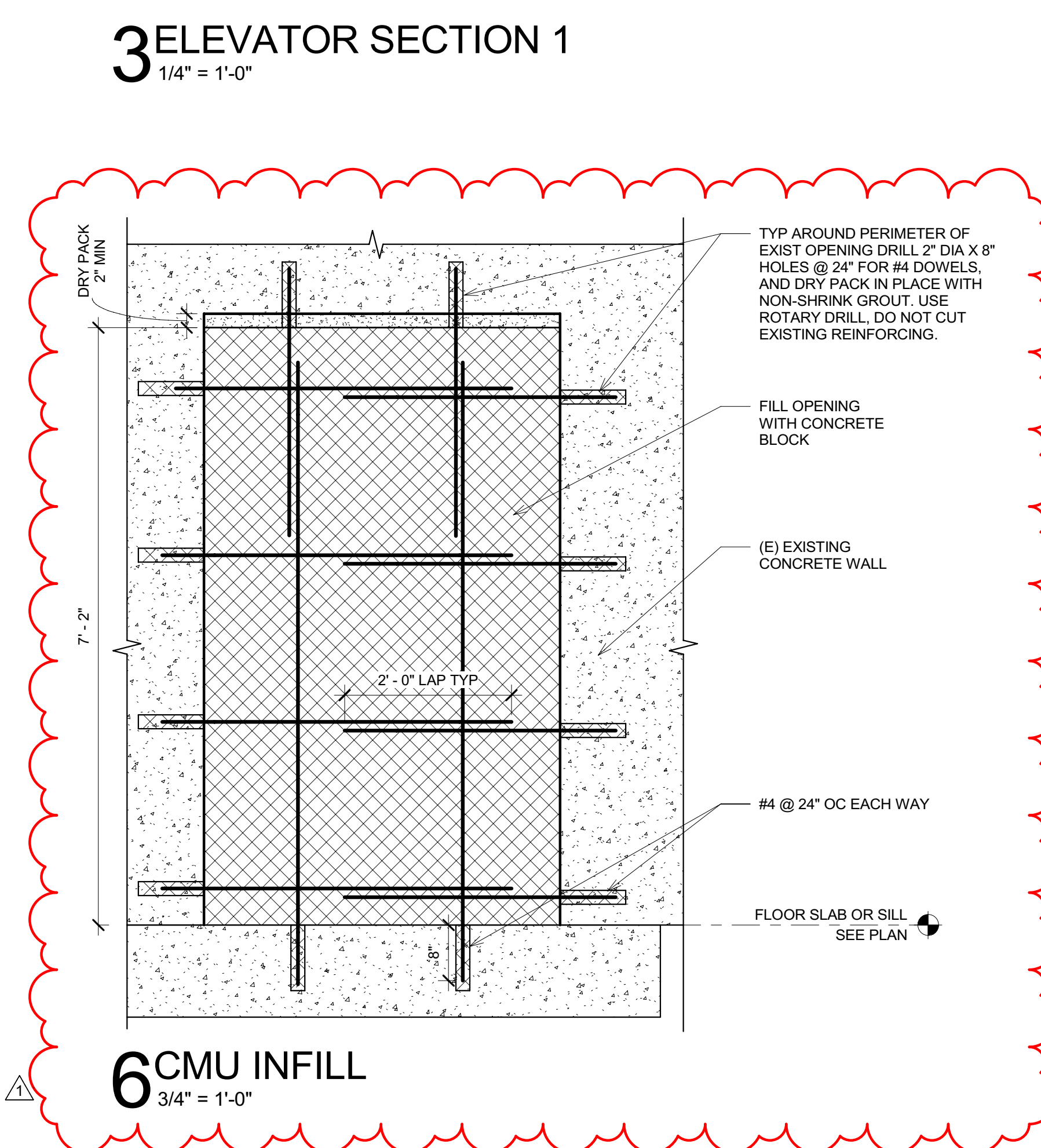
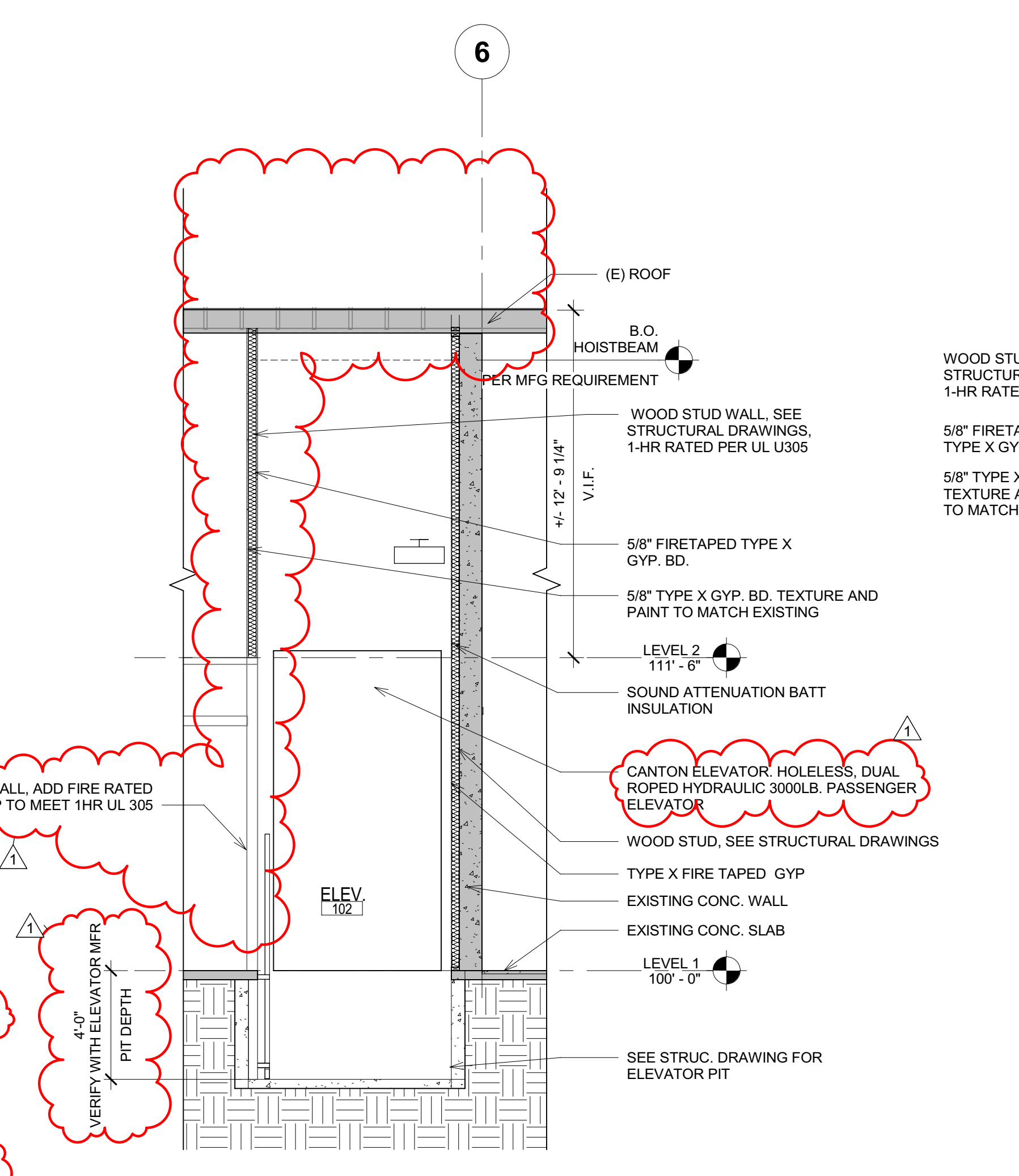
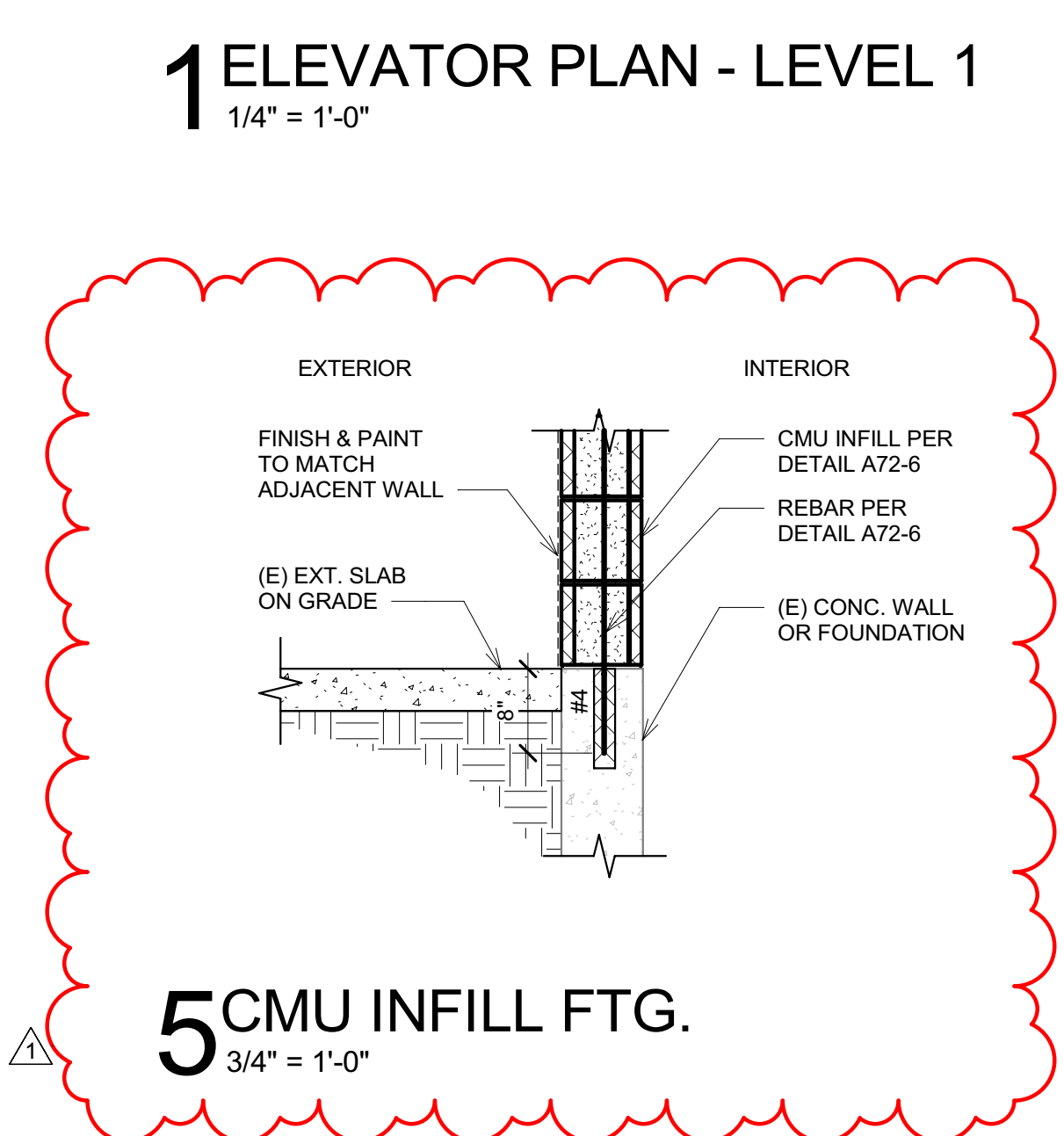
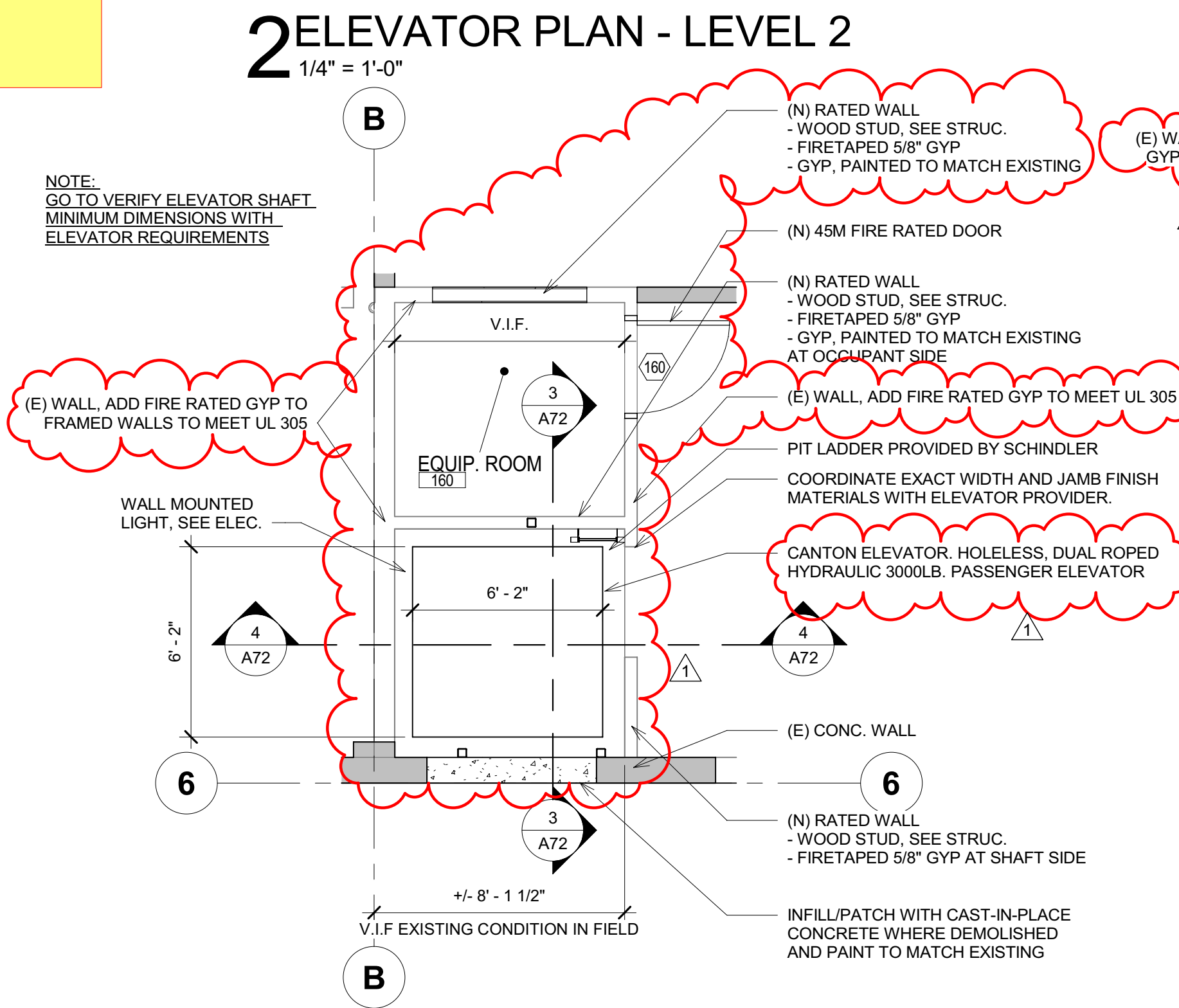
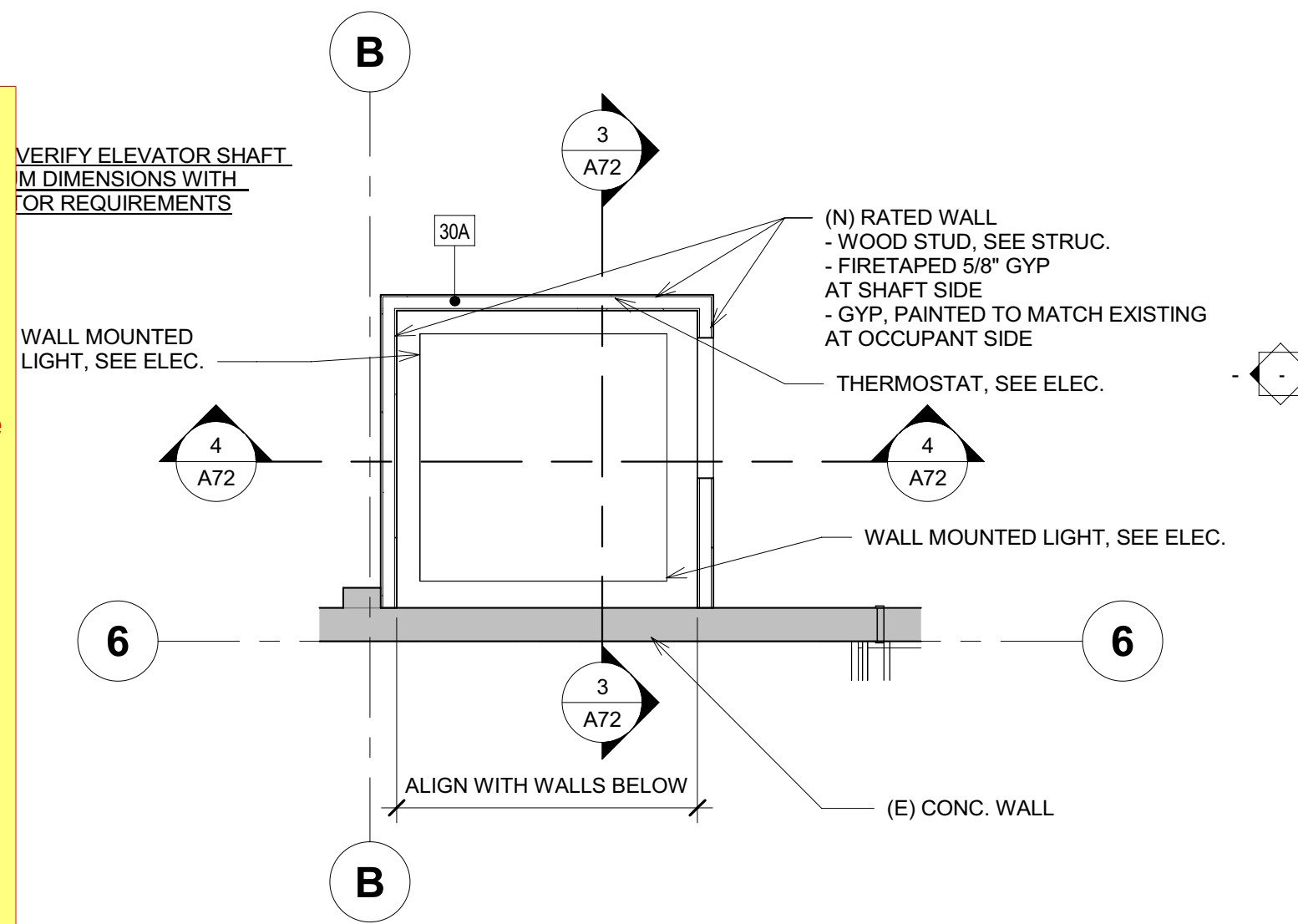
REVISED

SHEET TITLE
ROOF PLAN

SHEET
A23
 ORIGINAL SHEET SIZE
 24" x 36"

Approved
 3/27/2024 11:04:49 AM
 James Marsh Architect
 200 Broad Street
 Boise, ID 83702
 (208) 343-4635
 http://www.cshqa.com

1. Ensure Elevator Pit is equipped with a sump hole and a flush fitting cover. ASME A17.1 § 3.1 (2.2.2.6)
2. Ensure door to the Elevator Machine room is self-closing and self-locking ASME A17.1-3.7 (2.7.3.4.1)
3. Ensure the Elevator Machine room is equipped with natural or mechanical ventilation that will maintain the temperature within the range specified by the elevator manufacturer. ASME A17.1-3.7.1 (2.7.9.2)
4. Elevator car light circuit disconnect needs to be 15A. NEC-620
5. Ensure a fire extinguisher is mounted in the Elevator Machine Room. ASME A17.1-8.6.1.6.5
6. Ensure power for the monitoring of the shunt trip voltage is taken from the line side of the disconnect. NFPA 72
7. Ensure that the means of emergency communications has a means to verify operability installed. A17.1 § 2.27.1.1.6



LICENSED ARCHITECT
 JAMES MARSH ARCHITECT
 200 BROAD STREET
 BOISE, IDAHO
 PHONE: 208-343-4635 • FAX: 208-343-1658
 http://www.cshqa.com
 ORIGINAL DOCUMENT SIGNED BY ARCHITECT ON FILE WITH THE ORIGINAL SIGNED BY: JAMES A MARSH MARCH 27, 2024 ORIGINAL DATE SIGNED: JAMES A MARSH MARCH 27, 2024

ITD DIST. 3 BLDG. IMPROVEMENT
8150 WEST CHINDEN BLVD GARDEN CITY, ID
CSHQA

BUILDING IMPROVEMENT PERMIT SET

PROJECT	DATE
23002	10-30-23
DRAWN	CHECKED
SS	LB
REVISED	
1_E_BACK CHECK 1	03/27/24

SHEET TITLE
ELEVATOR DETAILS

SHEET
A72
 ORIGINAL SHEET SIZE 24" x 36"



STRUCTURAL ABBREVIATIONS

#	NUMBER	MISC	MISCELLANEOUS
&	AND	NTS	NOT TO SCALE
@	AT	OC	ON CENTER
Ø	DIAMETER	OD	OUTSIDE DIAMETER
ALT	ALTERNATE	OPP	OPPOSITE
ARCH	ARCHITECT	OSB	ORIENTED STRAND BOARD
	ARCHITECTURAL	PERP	PERPENDICULAR
BOD	BOTTOM OF DECK	PL	PLATE
BPL	BASE PLATE	PT	POST TENSIONED
CJ	CONTROL JOINT		PRESSURE TREATED
	CONSTRUCTION JOINT	REINF	REINFORCE
CL	CENTER LINE		REINFORCED
CLR	CLEAR		REINFORCEMENT
CMU	CONCRETE MASONRY UNITS		REINFORCING
CONC	CONCRETE	REQD	REQUIRED
CONN	CONNECTION	SCHED	SCHEDULE
CONT	CONTINUOUS	SER	STRUCTURAL ENGINEER OF RECORD
DF	DOUGLAS FIR		
DIA	DIAMETER	SHTHG	SHEATHING
DT	DRAG TRUSS	SIM	SIMILAR
EJ	EXPANSION JOINT	SPEC	SPECIFICATION
EL	ELEVATION	SSE	SPECIALTY STRUCTURAL ENGINEER
ELEC	ELECTRICAL		
EMBED	EMBEDMENT	ST	SHEAR TRUSS
EQ	EQUAL	STD	STANDARD
EQUIP	EQUIPMENT	STRUCT	STRUCTURAL
EXST, (E)	EXISTING	T&B	TOP AND BOTTOM
EXT	EXTERIOR	T&G	TONGUE AND GROOVE
FTG	FOOTING	THRU	THROUGH
GA	GAGE OR GAUGE	TOB	TOP OF BEAM
GC	GENERAL CONTRACTOR	TOC	TOP OF CONCRETE
GLB	GLU LAM BEAM	TOCP	TOP OF CONCRETE PIER
GT	GIRDER TRUSS	TOF	TOP OF FOOTING
HORIZ	HORIZONTAL	TOM	TOP OF MASONRY
ID	INSIDE DIAMETER	TOP	TOP OF PARAPET
JB	JOIST BEARING	TOS	TOP OF STEEL
LONG	LONGITUDINAL	TOW	TOP OF WALL
LT WT	LIGHT WEIGHT	TRANS	TRANVERSE
MAX	MAXIMUM	TWS	THREADED WELD STUD
MECH	MECHANICAL	TYP	TYPICAL
MFD	MANUFACTURED	UNO	UNLESS NOTED OTHERWISE
MFG	MANUFACTURING	VERT	VERTICAL
MFR	MANUFACTURER	VIF	VERIFY IN FIELD
MIN	MINIMUM	WP	WORK POINT

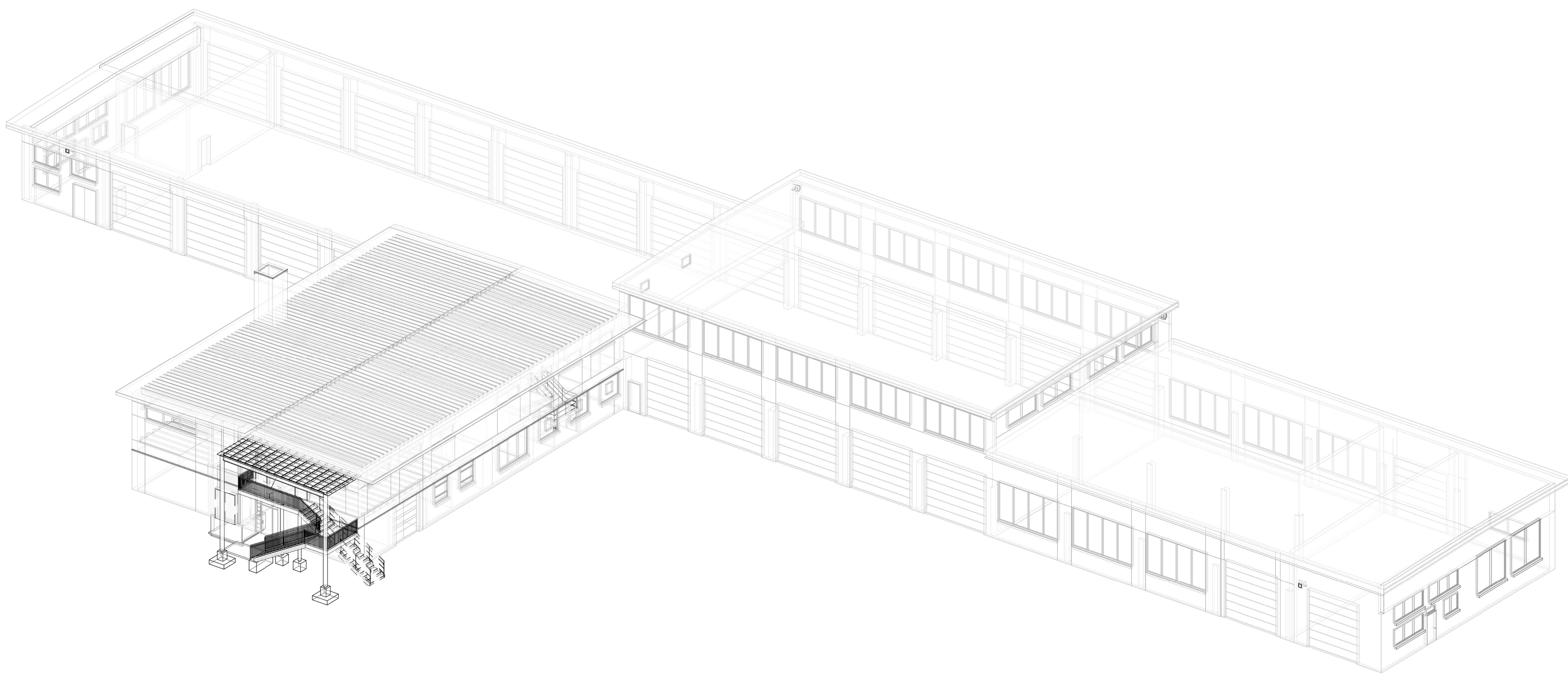
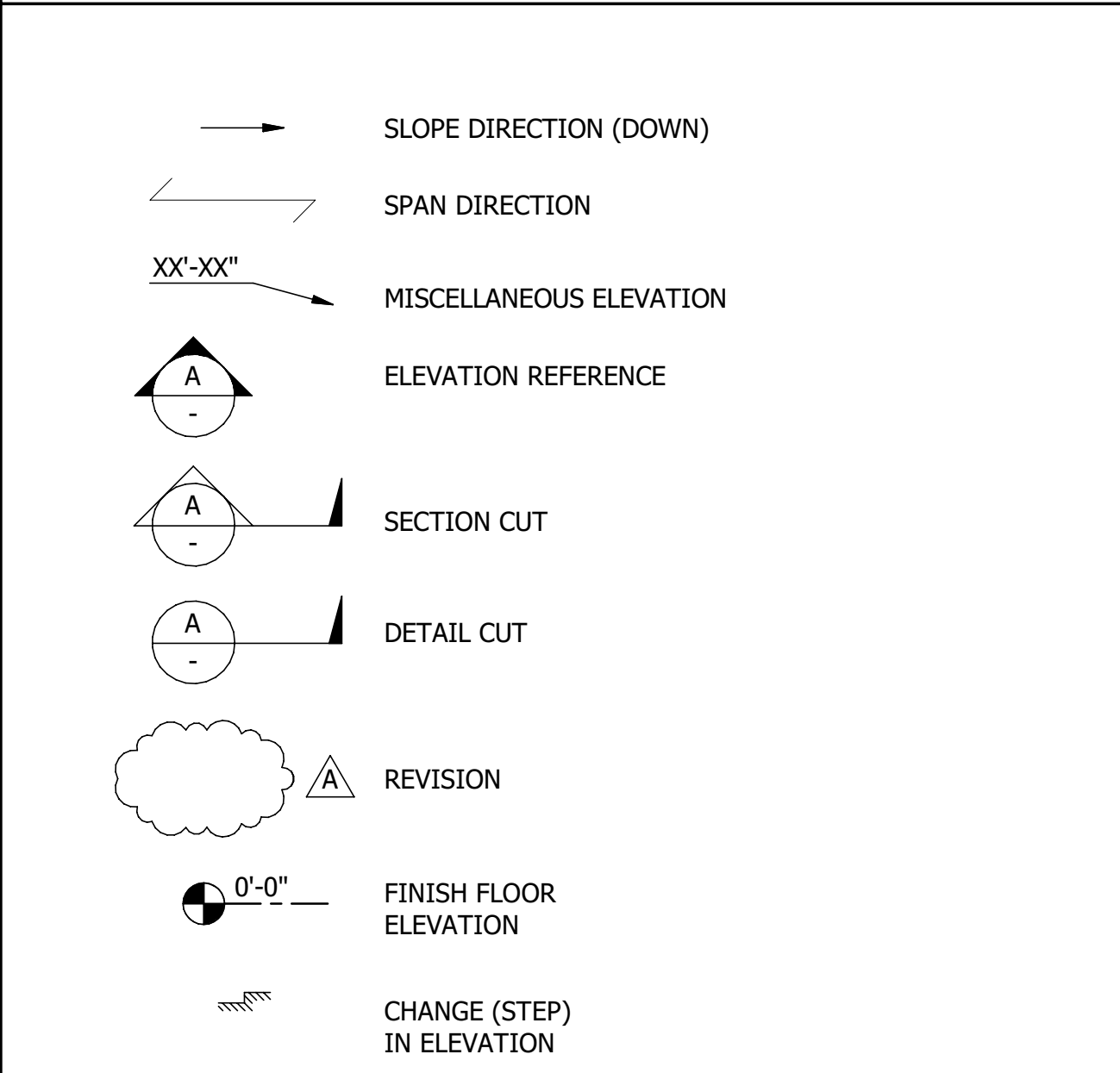
STRUCTURAL UNITS

#, LB	POUND
FT/LB	FOOT POUND
K	KIP (1000 LBS)
KSI	KIPS PER SQUARE INCH
PCF	POUNDS PER CUBIC FOOT
PLF	POUNDS PER LINEAL FOOT
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
SF	SQUARE FOOT

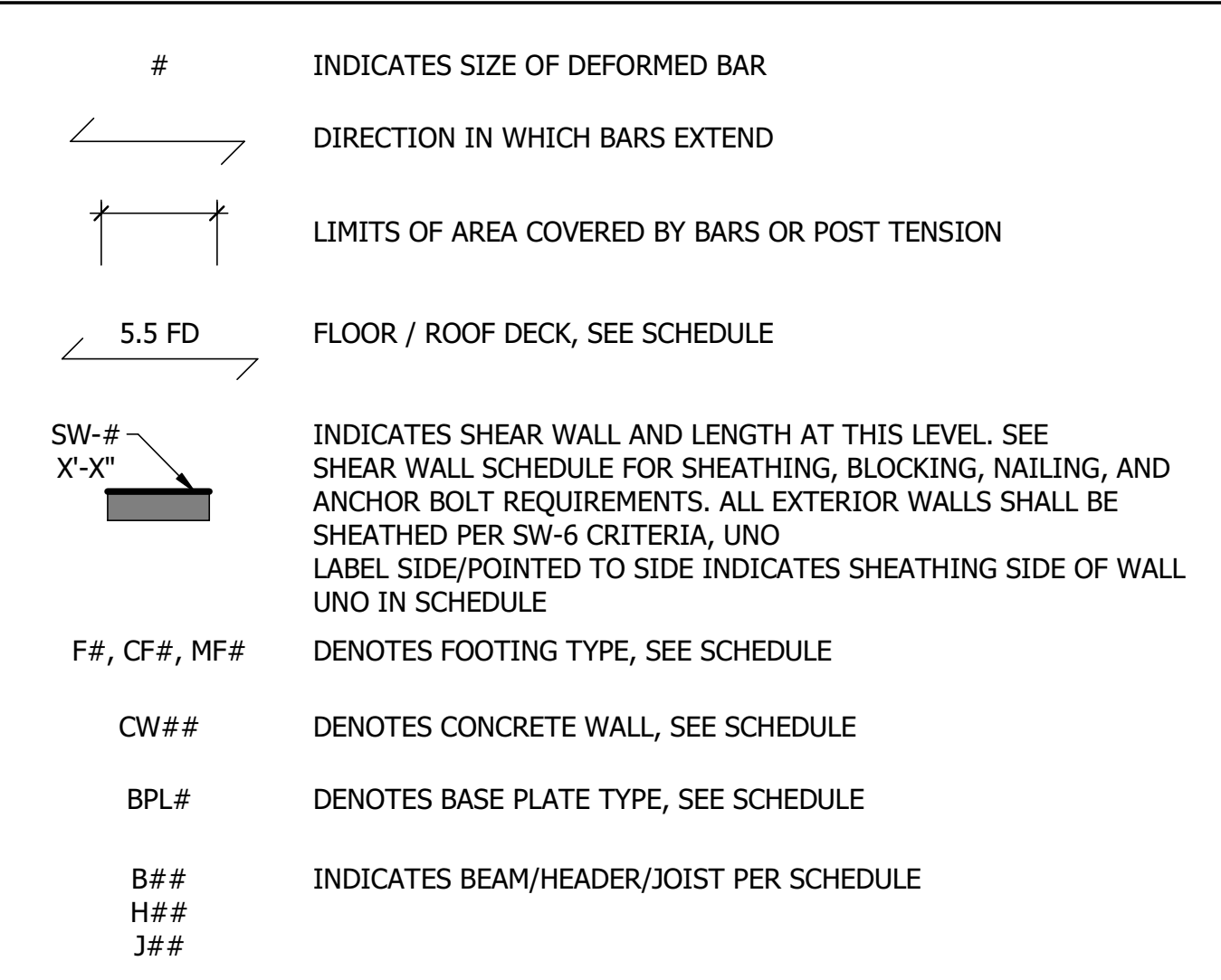
STRUCTURAL ORGANIZATIONS

ACI	AMERICAN CONCRETE INSTITUTE
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
AISI	AMERICAN IRON AND STEEL INSTITUTE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APA	AMERICAN PLYWOOD ASSOCIATION
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AWS	AMERICAN WELDING SOCIETY

GENERAL SYMBOL LEGEND

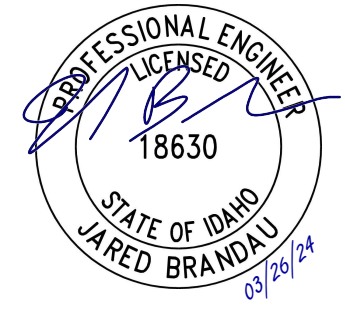


STRUCTURAL SYMBOL LEGEND



SHEET INDEX

SHEET NUMBER	SHEET NAME	CURRENT REVISION	CURRENT REVISION DATE
S0.01	STRUCTURAL COVER SHEET	1	03/27/2024
S0.02	GENERAL NOTES		
S0.03	GENERAL NOTES		
S0.04	GENERAL NOTES		
S0.05	GENERAL NOTES		
S1.01	FOUNDATION PLAN	1	03/27/2024
S1.02	LEVEL 2 FRAMING PLAN	1	03/27/2024
S1.03	ROOF FRAMING PLAN	1	03/27/2024
S1.04	SECTIONS	1	03/27/2024
S1.05	CONCRETE DETAILS	1	03/27/2024
S1.06	ROOF DETAILS	1	03/27/2024
S1.07	ROOF DETAILS	1	03/27/2024
S1.08	ROOF DETAILS	1	03/27/2024
S1.09	STEEL DETAILS		



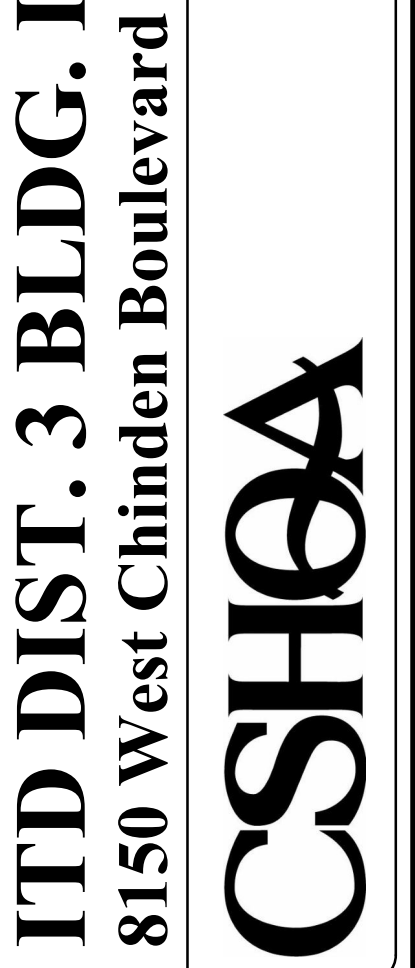
200 BROAD STREET
BOISE, IDAHO
PHONE: 208-343-4635 • FAX: 208-343-1858

THESE DRAWINGS AND SPECIFICATIONS ARE SOLELY THE PROPERTY OF THE ARCHITECT/ENGINEER. NO PART OF THESE DRAWINGS AND SPECIFICATIONS SHALL BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN CONSENT OF CSH&A OR ITS AFFILIATES.

Copyright © 2022

ITD DIST. 3 BLDG. IMPROVEMENT
8150 West Chinden Boulevard
GARDEN CITY, ID

200 BROAD STREET
BOISE, ID 83702
(208) 343-4635 • FAX (208) 343-1858
http://www.cshqa.com



BUILDING IMPROVEMENT PERMIT SET

PROJECT	DATE
23002	10-30-23
DRAWN	CHECKED
SD	JB

REVISED	
1_E_BACK CHECK 1	03/27/2024

STRUCTURAL COVER SHEET

SHEET

S0.01
ORIGINAL SHEET SIZE
24" x 36"

GENERAL NOTES

GENERAL REQUIREMENTS

GOVERNING CODE: THE DESIGN AND CONSTRUCTION OF THIS PROJECT IS GOVERNED BY THE "INTERNATIONAL BUILDING CODE (IBC)", 2018 EDITION, HEREAFTER REFERRED TO AS THE IBC, AS ADOPTED AND MODIFIED BY THE LOCAL BUILDING DEPARTMENT WITH AUTHORITY HAVING JURISDICTION.

REFERENCE STANDARDS: REFER TO CHAPTER 35 OF IBC. WHERE OTHER STANDARDS ARE NOTED IN THE DRAWINGS, USE THE LATEST EDITION OF THE STANDARD UNLESS A SPECIFIC DATE IS INDICATED. REFERENCE TO A SPECIFIC SECTION IN A CODE DOES NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH THE ENTIRE STANDARD. ALL SPECIFICATIONS AND CODES NOTED SHALL BE THE LATEST APPROVED EDITIONS AND REVISIONS BY THE AUTHORITY HAVING JURISDICTION OVER THIS PROJECT.

SPECIFICATIONS: REFER TO THE PROJECT SPECIFICATIONS ISSUED AS PART OF THE CONTRACT DOCUMENTS FOR INFORMATION SUPPLEMENTAL TO THESE DRAWINGS.

OTHER DRAWINGS: REFER TO THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, CIVIL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION INCLUDING BUT NOT LIMITED TO: DIMENSIONS, ELEVATIONS, SLOPES, DOOR AND WINDOW OPENINGS, NON-BEARING WALLS, STAIRS, FINISHES, DRAINS, WATERPROOFING, RAILINGS, CURBS, DEPRESSIONS, MECHANICAL UNIT LOCATIONS, AND OTHER NON-STRUCTURAL ITEMS.

STRUCTURAL DETAILS: THE STRUCTURAL DRAWINGS ARE INTENDED TO SHOW THE GENERAL CHARACTER AND EXTENT OF THE PROJECT AND ARE NOT INTENDED TO SHOW ALL DETAILS OF THE WORK. DETAILS, SECTIONS, AND NOTES SHOWN ON THESE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR CONDITIONS ELSEWHERE UNLESS OTHERWISE SHOWN OR NOTED. IF LOCATIONS ARE FOUND WHERE NO TYPICAL DETAIL, TYPICAL SCHEDULE, OR SPECIFIC DETAIL APPLIES, NOTIFY THE ARCHITECT/STRUCTURAL ENGINEER.

STRUCTURAL RESPONSIBILITIES: THE STRUCTURAL ENGINEER (SER) IS RESPONSIBLE FOR THE STRENGTH AND STABILITY OF THE PRIMARY STRUCTURE IN ITS COMPLETED FORM. THE STRUCTURAL DRAWINGS DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION.

COORDINATION: THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING DETAILS AND ACCURACY OF THE WORK; FOR CONFIRMING AND CORRELATING ALL QUANTITIES AND DIMENSIONS; FOR SELECTING FABRICATION PROCESSES; FOR TECHNIQUES OF ASSEMBLY; AND FOR PERFORMING WORK IN A SAFE AND SECURE MANNER.

DIMENSIONS: DO NOT SCALE THE DRAWINGS. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION. THE ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES. STRUCTURE NOTED IN THE DRAWINGS AS EXISTING SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT/STRUCTURAL ENGINEER.

MEANS, METHODS AND SAFETY REQUIREMENTS: THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION AND ALL JOB RELATED SAFETY STANDARDS SUCH AS OSHA (OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION) AND DOSH (DEPARTMENT OF OCCUPATIONAL SAFETY AND HEALTH). THE CONTRACTOR IS TO PROVIDE ADEQUATE EXCAVATION PROCEDURES, SHORING, BRACING AND ERECTION PROCEDURES COMPLYING WITH NATIONAL, STATE AND LOCAL SAFETY ORDINANCES.

TEMPORARY SHORING AND BRACING: THE CONTRACTOR IS RESPONSIBLE FOR THE STRENGTH AND STABILITY OF THE STRUCTURE DURING CONSTRUCTION AND SHALL PROVIDE MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE (BUT ARE NOT LIMITED TO): BRACING AND SHORING FOR LOADS DUE TO HYDROSTATIC, EARTH, WIND OR SEISMIC FORCES, CONSTRUCTION EQUIPMENT, ETC IT IS THE CONTRACTOR'S RESPONSIBILITY TO BE FAMILIAR WITH THE WORK REQUIRED IN THE CONSTRUCTION DOCUMENTS AND THE REQUIREMENTS FOR EXECUTING IT PROPERLY. THE CONTRACTOR SHALL AT HIS DISCRETION EMPLOY A REGISTERED PROFESSIONAL ENGINEER FOR THE DESIGN OF ANY TEMPORARY BRACING AND SHORING.

CONSTRUCTION LOADS: CONSTRUCTION LOADS AND MATERIALS SHALL BE SPREAD OUT WHEN PLACED ON FRAMED FLOORS OR ROOFS. LOADS ON THE STRUCTURE DURING CONSTRUCTION SHALL NOT EXCEED THE DESIGN LOADS AS NOTED IN DESIGN CRITERIA AND LOADS BELOW OR THE CAPACITY OF PARTIALLY COMPLETED CONSTRUCTION AS DETERMINED BY THE CONTRACTOR'S PROFESSIONAL ENGINEER FOR BRACING/SHORING.

CHANGES IN LOADING: THE CONTRACTOR HAS THE RESPONSIBILITY TO NOTIFY THE SER OF ANY ARCHITECTURAL, MECHANICAL, ELECTRICAL, OR PLUMBING LOAD IMPOSED ONTO THE STRUCTURE THAT DIFFERS FROM, OR THAT IS NOT DOCUMENTED ON THE ORIGINAL CONTRACT DOCUMENTS (ARCHITECTURAL / STRUCTURAL / MECHANICAL / ELECTRICAL OR PLUMBING DRAWINGS). PROVIDE DOCUMENTATION OF LOCATION, LOAD, SIZE AND ANCHORAGE OF ALL UNDOCUMENTED LOADS IN EXCESS OF 300 POUNDS. PROVIDE MARKED-UP STRUCTURAL PLAN INDICATING LOCATIONS OF ANY NEW EQUIPMENT OR LOADS NOT PREVIOUSLY DOCUMENTED. SUBMIT PLANS TO THE ARCHITECT/ENGINEER FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.

ROOF DRAINAGE: THE ROOF DRAINAGE SYSTEM SHALL BE DESIGNED SO THAT RAINWATER LOADS DO NOT EXCEED THE ROOF SNOW OR LIVE LOADS AS SHOWN IN THE DESIGN CRITERIA AND LOADS SECTION.

NOTE PRIORITIES: PLAN AND DETAIL NOTES AND SPECIFIC LOADING DATA PROVIDED ON INDIVIDUAL PLANS AND DETAIL DRAWINGS SUPPLEMENTS INFORMATION IN THE STRUCTURAL GENERAL NOTES AND PROJECT SPECIFICATIONS.

DISCREPANCIES: IN CASE OF DISCREPANCIES BETWEEN THE GENERAL NOTES, SPECIFICATIONS PLAN/DETAILS OR REFERENCE STANDARDS, THE ARCHITECT/ENGINEER SHALL DETERMINE WHICH SHALL GOVERN. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE WORK. SHOULD ANY DISCREPANCY BE FOUND IN THE CONTRACT DOCUMENTS, THE CONTRACTOR WILL BE DEEMED TO HAVE INCLUDED IN THE PRICE THE MOST EXPENSIVE WAY OF COMPLETING THE WORK, UNLESS PRIOR TO THE SUBMISSION OF THE PRICE, THE CONTRACTOR ASKS FOR A DECISION FROM THE ARCHITECT AS TO WHICH SHALL GOVERN. ACCORDINGLY, ANY CONFLICT IN OR BETWEEN THE CONTRACT DOCUMENTS SHALL NOT BE A BASIS FOR ADJUSTMENT IN THE CONTRACT PRICE.

SITE VERIFICATION: THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE SITE. CONFLICTS BETWEEN THE DRAWINGS AND ACTUAL SITE CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL INVESTIGATE THE SITE DURING CLEARING AND EARTHWORK OPERATIONS FOR FILLED EXCAVATIONS OR BURIED STRUCTURES SUCH AS CESSPOOLS, CISTERNS, FOUNDATIONS, UTILITIES, ETC IF ANY SUCH STRUCTURES ARE FOUND, NOTIFY THE STRUCTURAL ENGINEER IMMEDIATELY.

ADJACENT UTILITIES: THE CONTRACTOR SHALL DETERMINE THE LOCATION OF ALL ADJACENT UNDERGROUND UTILITIES PRIOR TO EARTH-WORK, FOUNDATIONS, SHORING, AND EXCAVATION. ANY UTILITY INFORMATION SHOWN ON THE STRUCTURAL DRAWINGS AND DETAILS ARE INTENDED FOR REFERENCE ONLY AND NOT FOR CONSTRUCTION.

GENERAL REQUIREMENTS (CONT)

ALTERNATES: ALTERNATE PRODUCTS OF SIMILAR STRENGTH, NATURE AND FORM FOR SPECIFIED ITEMS MAY BE SUBMITTED WITH ADEQUATE TECHNICAL DOCUMENTATION TO THE ARCHITECT/ENGINEER FOR REVIEW. ALTERNATE MATERIALS THAT ARE SUBMITTED WITHOUT ADEQUATE TECHNICAL DOCUMENTATION OR THAT SIGNIFICANTLY DEVIATE FROM THE DESIGN INTENT OF MATERIALS SPECIFIED MAY BE RETURNED WITHOUT REVIEW. ALTERNATES THAT REQUIRE SUBSTANTIAL EFFORT TO REVIEW WILL NOT BE REVIEWED UNLESS AUTHORIZED BY THE OWNER.

MECHANICAL, PLUMBING AND ELECTRICAL ANCHORAGE: ANCHORAGE AND SUPPORT OF MECHANICAL AND ELECTRICAL EQUIPMENT, PIPING AND DUCTWORK IS TO BE DESIGNED BY OTHERS. SEE ASCE 7-16 SECTION 13.2 AND TABLE 13.2-1. USE ISOLATORS, FASTENERS AND BRACING APPROVED BY ICC-ES REPORT CAPABLE OF TRANSMITTING CODE REQUIRED LATERAL LOADS. ALL SUSPENDED EQUIPMENT IS TO BE SECURED WITH LATERAL BRACING. SEE THE LATEST EDITION OF "GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL SYSTEMS" BY THE SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION.

OBSERVATION VISITS: OBSERVATION VISITS (SITE VISITS) BY REPRESENTATIVES OF ARCHITECT/STRUCTURAL ENGINEER DO NOT INCLUDE INSPECTION OF CONSTRUCTION MEANS AND METHODS. SITE VISITS DURING CONSTRUCTION ARE NOT CONTINUOUS AND DETAILED INSPECTION SERVICES (WHICH ARE TO BE PERFORMED BY OTHERS). OBSERVATIONS ARE PERFORMED SOLELY FOR THE PURPOSE OF DETERMINING IF THE CONTRACTOR UNDERSTANDS DESIGN INTENT SHOWN IN THE CONTRACT DRAWINGS. OBSERVATIONS DO NOT GUARANTEE CONTRACTOR'S PERFORMANCE AND ARE NOT TO BE CONSTRUED AS SUPERVISION OR VERIFICATION OF CONSTRUCTION.

SHOP DRAWINGS: SHOP DRAWINGS SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW SHALL CONSIST OF (1) ELECTRONIC PDF SET OR (1) MARKUP SET (FOR OUR RECORDS) AND (1) REPRODUCIBLE SET. NO MODIFICATIONS OR SUBSTITUTION OF DRAWINGS AND SPECIFICATIONS WILL BE ACCEPTED VIA SHOP DRAWING REVIEW.

- CONTRACTOR SHALL REVIEW AND STAMP SHOP DRAWINGS PRIOR TO SUBMISSION TO THE ARCHITECT/STRUCTURAL ENGINEER. CONTRACTOR SHALL REVIEW FOR COMPLETENESS AND COMPLIANCE WITH CONTRACT DOCUMENTS.
- SUBMIT SHOP DRAWINGS TO THE ARCHITECT/STRUCTURAL ENGINEER AS INDICATED OR SPECIFIED FOR REVIEW PRIOR TO FABRICATION. REVIEW WILL BE FOR GENERAL CONFORMANCE WITH DESIGN INTENT CONVEYED IN THE CONTRACT DOCUMENTS.
- WHEN AN ENGINEER IS REQUIRED TO SIGN AND STAMP SHOP DRAWINGS AND CALCULATIONS, ENSURE SEAL INDICATES ENGINEER AS BEING REGISTERED IN THE STATE OF THE PROJECT SITE.
- SHOP DRAWINGS ARE NOT A PART OF CONTRACT DOCUMENTS. THEREFORE, ARCHITECT'S/STRUCTURAL ENGINEER'S REVIEW DOES NOT CONSTITUTE AN AUTHORIZATION TO DEVIATE FROM TERMS AND CONDITIONS OF THE CONTRACT.
- SHOP DRAWINGS WILL BE REJECTED FOR INCOMPLETENESS, LACK OF COORDINATION WITH OTHER PORTIONS OF CONTRACT DOCUMENTS, LACK OF CALCULATIONS (IF REQUIRED), OR WHERE MODIFICATIONS OR SUBSTITUTIONS ARE INDICATED WITHOUT PRIOR REVIEW PER PARAGRAPH ABOVE.
- SUBMIT SHOP DRAWINGS AND CALCULATIONS TO GOVERNING CODE AUTHORITY WHEN SPECIFICALLY INDICATED OR REQUESTED.
- MAINTAIN A COPY OF ALL SHOP DRAWINGS REVIEWED BY THE ARCHITECT/STRUCTURAL ENGINEER AT SITE DURING CONSTRUCTION PERIOD.
- STRUCTURAL ENGINEER REQUIRES 10 WORKING DAYS AFTER RECEIPT OF SHOP DRAWINGS AND CALCULATIONS FOR PROCESSING.
- REPRODUCTION OF ANY PORTION OF THE STRUCTURAL CONTRACT DRAWINGS FOR RESUBMITTAL AS SHOP DRAWINGS IS PROHIBITED. SHOP DRAWINGS PRODUCED IN SUCH A MANNER WILL BE REJECTED AND RETURNED.

DESIGN CRITERIA AND LOADS

RISK CATEGORY OF BUILDING II

WIND DESIGN - ASCE 7-16 CHAPTER 26, 27, & 30 (STRENGTH LEVEL UNLESS NOTED)

- WIND ANALYSIS PROCEDURE USED	DIRECTIONAL PROCEDURE
- BASIC WIND SPEED	102 MPH
- EXPOSURE CATEGORY	C
- TOPOGRAPHIC FACTOR (K _z)	1.0
- WIND DESIGN BASE SHEAR (ELEV OVRERRUN)	
(N/S)	0.5 KIPS
(E/W)	0.5 KIPS
- COMPONENTS AND CLADDING LOAD (C&C)	SEE TABLE BELOW

SEISMIC DESIGN - ASCE 7-16 CHAPTER 11 AND 12 (STRENGTH LEVEL UNLESS NOTED)

- SEISMIC ANALYSIS PROCEDURE USED	EQUIVALENT LATERAL FORCE (ELF)
- MAPPED MCE:	S ₂ = 0.306 S ₁ = 0.110
- SOIL SITE CLASSIFICATION	D
- DESIGN ACCEL:	S _{0.2} = 0.317g S _{0.1} = 0.174g
- SEISMIC DESIGN CATEGORY (SDC)	C
- SEISMIC IMPORTANCE FACTOR (I _e)	1.0

AT ELEVATOR OVRERRUN:

- BASIC STRUCTURAL SYSTEM	BEARING WALL
- SEISMIC FORCE-RESISTING SYSTEM	LIGHT FRAMED WOOD WALLS SHEATHED WITH WOOD STRUCTURAL PANELS
- RESPONSE MODIFICATION FACTOR (R)	6.5
- SYSTEM OVER STRENGTH FACTOR (Ω _n)	2.5
- DEFLECTION AMPLIFICATION FACTOR (C _d)	4.0
- SEISMIC RESPONSE COEFFICIENT (C _s)	0.048
- DESIGN BASE SHEAR (V)	0.08 KIPS

SNOW LOAD - ASCE 7-16 CHAPTER 7

- GROUND SNOW LOAD (p _g)	20 PSF
- SNOW EXPOSURE FACTOR (C _e)	1.0
- THERMAL FACTOR (C _t)	1.0
- SNOW LOAD IMPORTANCE FACTOR (I _s)	1.0
- ROOF SNOW LOAD (P _r OR P _m OR P _e)	25 PSF

DESIGN LIVE LOADS - ASCE 7-16 CHAPTER 4

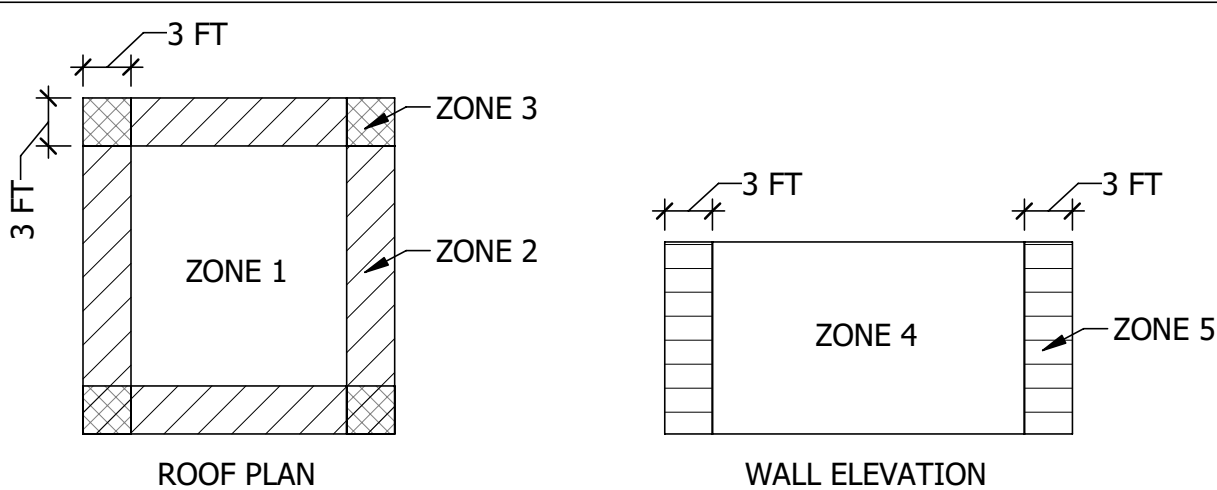
AREA	LIVE LOADS (PSF) UNO	REMARKS AND NOTES
STAIRS AND EXIT WAYS	100	300 LBS CONC LOAD [1]
ROOF	20	(OR SNOW LOAD)
HANDRAIL/GUARDRAIL	50 PLF	200 LBS CONC LOAD [2]

- [1] NOT APPLIED CONCURRENT WITH UNIFORM LOAD; APPLIED OVER 2 IN. x 2 IN. AREA
 [2] NOT APPLIED CONCURRENT WITH UNIFORM LOAD; APPLIED AT ANY LOCATION/DIRECTION

DESIGN DEAD LOADS

AREA	DEAD LOADS (PSF) UNO	REMARKS AND NOTES
ROOF	20	
FLOOR (EXISTING)	100	

COMPONENTS AND CLADDING WIND LOAD DIAGRAMS (STRENGTH LEVEL UNLESS NOTED)



ZONE	EFFECTIVE AREA (FT ²)	+ PRESSURE (PSF)	- PRESSURE (PSF)
1	10	16.0	36.2
	100	16.0	28.3
2	10	16.0	47.8
	100	16.0	37.6
3	10	16.0	65.2
	100	16.0	44.7
4	10	20.8	22.6
	100	17.8	19.5
5	10	20.8	27.8
	100	17.8	21.6

- POSITIVE PRESSURES ACT TOWARDS THE INTERIOR OF STRUCTURE. NEGATIVE PRESSURES ACT AWAY FROM STRUCTURE (SUCTION ON WALLS, UPLIFT ON ROOF).
- PRESSURES IN TABLE ABOVE ARE 'NET' PER ASCE 7, MEANING SUM OF EXTERNAL AND INTERNAL WIND PRESSURE COMPONENTS.
- WIND UPLIFT PRESSURES ON ROOFS SHALL BE COMBINED WITH PROPER DEAD LOAD ACCORDING TO APPROPRIATE STRENGTH OR SERVICE LOAD COMBINATIONS FROM IBC AND ASCE 7.

TESTS AND INSPECTIONS: SPECIAL INSPECTIONS AND TESTING SHALL BE DONE IN ACCORDANCE WITH THE STATEMENT OF SPECIAL INSPECTIONS PER IBC SECTIONS 1704 AND 1705 AS APPLICABLE. FOR SPECIFIC SECTIONS:

- 1705.11 (WIND SPECIAL INSPECTIONS)
 - 1705.12 (SEISMIC SPECIAL INSPECTIONS)
 - 1705.13 (SEISMIC SPECIAL TESTING)
- FOUNDATIONS, FOOTINGS, UNDER SLAB SYSTEMS AND FRAMING ARE SUBJECT TO INSPECTION BY THE BUILDING OFFICIAL IN ACCORDANCE WITH IBC SECTION 110.3. CONTRACTOR SHALL COORDINATE ALL REQUIRED INSPECTIONS WITH THE BUILDING OFFICIAL.

SPECIAL INSPECTORS: SPECIAL INSPECTORS SHALL BE EMPLOYED BY THE OWNER TO PROVIDE SPECIAL INSPECTIONS FOR THE PROJECT. SPECIAL INSPECTORS SHALL BE QUALIFIED PERSONS WHO DEMONSTRATE COMPETENCE TO THE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION PER 1704.1.

STATEMENT OF SPECIAL INSPECTIONS: SPECIAL INSPECTIONS AND TESTING ARE REQUIRED BY 1704 AND 1705 FOR THE FOLLOWING:

SOIL AND FOUNDATION CONSTRUCTION:

- PER IBC SECTION 1705.6:
- PERIODIC INSPECTION OF SOILS EARTHWORK PER TABLE 1705.6 IS REQUIRED FOR:
 - FOOTING SOIL BEARING SURFACES PRIOR TO PLACING ANY REINFORCING STEEL.
 - EXCAVATION DEPTH AND BEARING LAYER PRIOR TO PLACING ANY REINFORCING STEEL.
 - COMPACTED FILL MATERIAL CLASSIFICATION AND TESTING.
 - SUBGRADE PREPARATION PRIOR TO FILLING.
 - CONTINUOUS INSPECTION PER TABLE 1705.6 REQUIRED TO VERIFY:
 - FILLING OPERATIONS TO SATISFY REQUIREMENTS OF IBC TABLE 1705.6 AND THE GEOTECHNICAL REPORT LISTED UNDER SOILS AND FOUNDATIONS SECTION.
 - COMPACTED FILL DENSITY TESTING OF EACH LIFT, PROPER LIFT THICKNESS AND MATERIAL CLASSIFICATION.

CONCRETE CONSTRUCTION:

- PER IBC SECTION 1705.3 AND TABLE 1705.3 INCLUDING:
- PERIODIC INSPECTION REQUIRED FOR:
 - SIZE AND PLACEMENT OF ALL REINFORCING STEEL PRIOR TO THE POUR.
 - PLACEMENT CLEARANCES AROUND REINFORCING STEEL AT EMBEDDED CONDUIT.
 - SHAPE, LOCATION AND DIMENSIONS OF MEMBERS FORMED.
 - USE OF THE REQUIRED DESIGN CONCRETE MIX.
 - MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.
 - VERIFICATION OF IN-SITU CONCRETE STRENGTH PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.
 - CONTINUOUS INSPECTION REQUIRED DURING THE:
 - PLACING OF REINFORCED CONCRETE, INCLUDING CONCRETE ON METAL DECK FOR PROPER APPLICATION TECHNIQUES.
 - PLACING AND STRESSING OF POST-TENSIONING
 - PLACING AND SIZE OF CAST-IN-PLACE BOLTS AND EMBEDDED FABRICATIONS PRIOR TO THE POUR.
 - PLACING OF MECHANICAL BAR SPLICES
 - PLACING OF CONCRETE AROUND CAST-IN-PLACE BOLTS AND EMBEDS.
 - SAMPLING OF FRESH CONCRETE.
 - DETERMINATIONS OF SLUMP, AIR CONTENT AND TEMPERATURE.

WOOD CONSTRUCTION:

- PER IBC SECTION 1705.5:
- HIGH-LOAD DIAPHRAGMS
 - METAL-PLATE CONNECTED WOOD TRUSSES SPANNING 60'-0" OR HAVING OVERALL HEIGHTS GREATER THAN 60".
 - WOOD SHEAR WALLS WITH FASTENER SPACING OF LESS THAN 4"

MISCELLANEOUS INSPECTIONS:

- PER IBC SECTION 1705:
- PILING, DRILLED PIERS AND CAISSONS
 - WELDING OF:
 - WELDED GUARDRAIL
 - COLD-FORMED STEEL
 - SPRAY APPLIED FIREPROOFING AS INDICATED IN THE ARCHITECTURAL DRAWINGS

TESTS AND INSPECTIONS (CONT)

WOOD CONSTRUCTION:

- PER IBC SECTION 1705.5:
- HIGH-LOAD DIAPHRAGMS
 - METAL-PLATE CONNECTED WOOD TRUSSES SPANNING 60'-0" OR HAVING OVERALL HEIGHTS GREATER THAN 60".
 - WOOD SHEAR WALLS WITH FASTENER SPACING OF LESS THAN 4"

MISCELLANEOUS INSPECTIONS:

- PER IBC SECTION 1705:
- PILING, DRILLED PIERS AND CAISSONS
 - WELDING OF:
 - WELDED GUARDRAIL
 - COLD-FORMED STEEL
 - SPRAY APPLIED FIREPROOFING AS INDICATED IN THE ARCHITECTURAL DRAWINGS

POST INSTALLED ANCHORS TO CONCRETE AND MASONRY: SHALL COMPLY WITH IBC SECTION 1705. INSPECTIONS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS SET FORTH IN THE APPROVED ICC EVALUATION REPORT AND AS INDICATED BY THE DESIGN REQUIREMENTS SPECIFIED ON THE DRAWINGS. REFER TO THE POST INSTALLED ANCHORS SECTION OF THESE NOTES FOR ANCHORS THAT ARE THE BASIS OF THE DESIGN. SPECIAL INSPECTOR SHALL VERIFY ANCHORS ARE AS SPECIFIED IN THE POST INSTALLED ANCHORS SECTION OF THESE NOTES OR AS OTHERWISE SPECIFIED ON THE DRAWINGS. SUBSTITUTIONS REQUIRE APPROVAL BY THE SER AND REQUIRE SUBSTANTIATING CALCULATIONS AND CURRENT IBC RECOGNIZED ICC-ES REPORT. SPECIAL INSPECTOR SHALL DOCUMENT IN THEIR SPECIAL INSPECTION REPORT COMPLIANCE WITH EACH OF THE ELEMENTS REQUIRED WITHIN THE APPLICABLE ICC-ES REPORT.

INSPECTION REPORTS: SPECIAL INSPECTION REPORTS SHALL BE PROVIDED AS SOON AS PRACTICAL AFTER COMPLETING INSPECTIONS. FINAL SPECIAL INSPECTION REPORTS WILL BE REQUIRED BY EACH SPECIAL INSPECTION FIRM PER IBC 1704.2.4. SUBMIT COPIES OF ALL INSPECTION REPORTS TO THE ARCHITECT/ENGINEER AND THE AUTHORITY HAVING JURISDICTION FOR REVIEW.

PREFABRICATED CONSTRUCTION: ALL PREFABRICATED CONSTRUCTION SHALL CONFORM TO IBC SECTION 1703.

INSPECTION FOR SEISMIC RESISTANCE: SPECIAL INSPECTION IN ACCORDANCE WITH THE REQUIREMENTS OF IBC SECTION 1704, 1705, AND STRUCTURAL TESTING IN ACCORDANCE WITH THE REQUIREMENTS OF IBC SECTION 1705.12 SHALL BE REQUIRED FOR:

- DESIGNATED SEISMIC FORCE RESISTING SYSTEMS DENOTED BY [SFRS] ON PLAN OR DETAIL
- ALL SEISMIC FORCE RESISTING SYSTEMS (SFRS) SHOWN IN ELEVATION
- EXISTING SEISMIC FORCE RESISTING SYSTEMS DENOTED ON PLAN OR DETAIL BY [ESFRS]. ANY DEFICIENCIES OR DISCREPANCIES FROM THAT SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE REPORTED TO THE STRUCTURAL ENGINEER OF RECORD.

CONTRACTOR'S ENGINEERING REQUIREMENTS (DEFERRED SUBMITTALS)

GENERAL CONTRACTOR'S PRIOR REVIEW: ONCE THE CONTRACTOR HAS COMPLETED HIS REVIEW OF THE SPECIALTY STRUCTURAL ENGINEER'S (SSE) COMPONENT DRAWINGS, THE SER WILL REVIEW THE SUBMITTAL FOR GENERAL CONFORMANCE WITH THE DESIGN AND IMPACT TO STRUCTURE OF THE BUILDING AND WILL STAMP THE SUBMITTAL ACCORDINGLY. REVIEW OF THE SSE SHOP DRAWINGS (COMPONENT DESIGN DRAWINGS) IS FOR COMPLIANCE WITH DESIGN CRITERIA AND COMPATIBILITY WITH THE DESIGN OF THE PRIMARY STRUCTURE AND DOES NOT RELIEVE THE SSE OF RESPONSIBILITY FOR THAT DESIGN. ALL NECESSARY BRACING, TIES, ANCHORAGE, PROPRIETARY PRODUCTS SHALL BE FURNISHED AND INSTALLED PER MANUFACTURER'S INSTRUCTIONS OR THE SSE'S DESIGN DRAWINGS AND CALCULATIONS. THESE ELEMENTS INCLUDE BUT ARE NOT LIMITED TO:

- BUILDING EXTERIORS
- BUILDING INTERIORS
- STEEL STAIRS HANDRAILS AND GUARDRAILS

BUILDING EXTERIORS: ALL ENGINEERING REQUIRED FOR NON-STRUCTURAL EXTERIOR STUD WALLS, CURTAIN WALLS, CLADDING, VENEER AND GLAZING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE DRAWINGS SHALL MAINTAIN THE DESIGN INTENT OF THE ARCHITECTURAL DRAWINGS AND SHALL BE REVIEWED BY THE ENGINEER OF RECORD FOR COMPATIBILITY WITH THE BASE STRUCTURE. THE CONTRACTOR'S ENGINEER SHALL BE A LICENSED PROFESSIONAL CIVIL ENGINEER IN THE STATE OF THE PROJECT.

BUILDING INTERIORS: ALL ENGINEERING REQUIRED FOR THE INTERIOR CEILING SYSTEMS, STUD WALLS, HANGING CHANDELIERS, SIGNAGE, ETC SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE DRAWINGS SHALL MAINTAIN THE DESIGN INTENT OF THE ARCHITECTURAL DRAWINGS AND SHALL BE REVIEWED BY THE ENGINEER OF RECORD FOR COMPATIBILITY WITH THE BASE STRUCTURE. THE CONTRACTOR'S ENGINEER SHALL BE A LICENSED PROFESSIONAL CIVIL ENGINEER IN THE STATE OF THE PROJECT.

STEEL STAIRS, HANDRAILS, AND GUARDRAILS: ALL STAIRS, LANDINGS AND HANDRAILS SHALL BE DESIGN/BUILD AND MAINTAIN THE DESIGN INTENT ON THE ARCHITECTURAL DRAWINGS AND STRUCTURAL DRAWINGS. ALL STAIRS AND LANDINGS SHALL BE FREE STANDING, UNLESS COORDINATED WITH THE ENGINEER OF RECORD. ALL REQUIRED SLAB EMBEDS FOR VERTICAL AND LATERAL SUPPORTS ARE TO BE COORDINATED WITH THE ARCHITECT AND ANY OTHER DISCIPLINE THAT MAY BE AFFECTED. SHOP DRAWINGS FOR THE STAIRS AND ALL COMPONENTS RELATED TO THE STAIRS SHALL BE SEALED AND SUBMITTED ALONG WITH SEALED ENGINEERED CALCULATIONS PREPARED BY A LICENSED PROFESSIONAL ENGINEER LICENSED IN THE STATE OF THE PROJECT. THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS, DETAILS, AND STRUCTURAL CALCULATIONS FOR THE ITEMS PER THE ARCHITECTURAL AND STRUCTURAL DRAWINGS AND DESIGN CRITERIA.

- SUBMITTAL DOCUMENTS FOR DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED FOR REVIEW TO THE ARCHITECT AND ENGINEER-OF-RECORD.
- THE ARCHITECT, AND ENGINEER-OF-RECORD SHALL REVIEW ALL DEFERRED SUBMITTAL ITEMS, SIGN AND STAMP THEM AS APPROVED, AND FORWARD THEM TO THE BUILDING OFFICIAL WITH A NOTATION INDICATED THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN FOUND TO BE IN GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING AND NO EXPECTATIONS ARE TAKEN.
- THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THEIR DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.

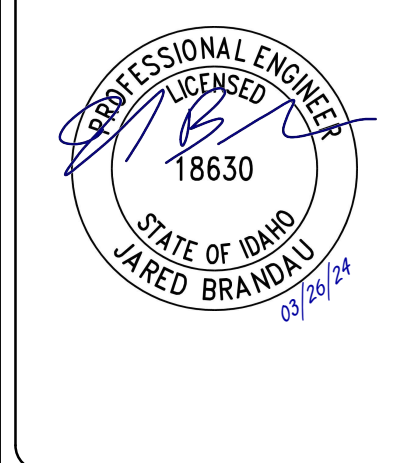
SOIL AND FOUNDATIONS

REFERENCE STANDARDS: CONFORM TO IBC CHAPTER 18 "SOILS AND FOUNDATIONS."

DESIGN SOIL VALUES *

- ALLOWABLE FOUNDATION BEARING PRESSURE	1,500 PSF
- EQUIVALENT FLUID PRESSURE (CONSTRAINED)	64 PCF

* DESIGN SOIL VALUES SHOWN ARE PRESUMPTIVE VALUES PRESENTED IN IBC 1806 AND THEREFORE ARE TO BE VERIFIED IN THE FIELD. IF SOILS ARE FOUND TO BE OTHER THAN ASSUMED, NOTIFY THE STRUCTURAL ENGINEER FOR POSSIBLE FOUNDATION REDESIGN.



200 BROAD STREET
BOISE, IDAHO
PHONE: 208-343-4635 • FAX: 208-343-1658

THESE DRAWINGS AND SPECIFICATIONS ARE REMAIN THE PROPERTY OF THE ARCHITECT/ENGINEER WHETHER OR NOT THESE DRAWINGS AND SPECIFICATIONS SHALL BE USED FOR ANY OTHER PROJECTS. NO PART OF THIS PROJECT OR PROJECTS FOR ANY OTHER PROJECTS SHALL BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN CONSENT OF CS HOA OR ITS AFFILIATES.
Copyright © 2022

ITD DIST. 3 BLDG. IMPROVEMENT GARDEN CITY, ID

8150 West Chinden Boulevard

200 BROAD STREET
BOISE, ID 83702
(208) 343-4635 • FAX: (208) 343-1658
http://www.cshoa.com



BUILDING IMPROVEMENT PERMIT SET

PROJECT	DATE
23002	10-30-23
DRAWN	CHECKED
SD	JB

REVISED

GENERAL NOTES

SHEET

S0.02

ORIGINAL SHEET SIZE
24" x 36"



GENERAL NOTES

SOIL AND FOUNDATIONS (CONT)

FOUNDATIONS AND FOOTINGS: FOUNDATIONS SHALL BEAR ON EITHER COMPETENT NATIVE SOIL OR COMPACTED STRUCTURAL FILL AS PER THE GEOTECHNICAL REPORT. EXTERIOR PERIMETER FOOTINGS SHALL BEAR NOT LESS THAN 24" BELOW FINISH GRADE, UNLESS OTHERWISE SPECIFIED BY THE GEOTECHNICAL ENGINEER AND/OR THE BUILDING OFFICIAL.

FOOTING DEPTH: FOOTINGS SHALL BE PLACED ACCORDING TO THE DEPTHS SHOWN ON THE DRAWINGS. TOPS OF FOOTINGS SHALL BE AS SHOWN ON PLANS WITH VERTICAL CHANGES AS INDICATED WITH STEPS IN THE FOOTINGS; LOCATIONS OF STEPS SHOWN AS APPROXIMATE AND SHALL BE COORDINATED WITH THE CIVIL GRADING PLANS TO ENSURE THAT THE EXTERIOR PERIMETER FOOTINGS BEAR NO LESS THAN 24" BELOW FINISH GRADE, OR AS OTHERWISE INDICATED BY THE GEOTECHNICAL ENGINEER OR BUILDING OFFICIAL. EXCAVATIONS FOR FOOTINGS SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE AND REINFORCING. THE GEOTECHNICAL ENGINEER SHALL SUBMIT A LETTER OF COMPLIANCE TO THE OWNER. SHOULD SOIL AT THESE PRESCRIBED DEPTHS NOT MEET THE APPROVAL OF THE GEOTECHNICAL ENGINEER, FOOTING ELEVATIONS OR DESIGNS WILL BE ALTERED BY CHANGE ORDER.

SLABS-ON-GRADE: ALL SLABS-ON-GRADE SHALL BEAR ON COMPACTED STRUCTURAL FILL OR COMPETENT NATIVE SOIL PER THE GEOTECHNICAL REPORT. ALL MOISTURE SENSITIVE SLABS-ON-GRADE OR THOSE SUBJECT TO RECEIVE MOISTURE SENSITIVE COATINGS/COVERING SHALL BE PROVIDED WITH AN APPROPRIATE CAPILLARY BREAK AND VAPOR BARRIER/RETARDANT OVER THE SUBGRADE PREPARED AND INSTALLED AS NOTED IN THE GEOTECHNICAL REPORT, BARRIER MANUFACTURER'S WRITTEN RECOMMENDATIONS AND COORDINATED WITH THE FINISHES SPECIFIED BY THE ARCHITECT.

PREPARATION: THE CONTRACTOR SHALL PROVIDE FOR PROPER DEWATERING OF EXCAVATIONS FROM SURFACE WATER, GROUND WATER, SEEPING ETC

SHORING: THE CONTRACTOR SHALL PROVIDE FOR THE INSTALLATION AND DESIGN OF ALL CRIBBING, SHEATHING AND SHORING REQUIRED TO SAFELY AND ADEQUATELY RETAIN THE EARTH BANKS, NEW WALLS AND SUPPORT ANY EXISTING STRUCTURES IN ACCORDANCE WITH ALL NATIONAL, STATE AND LOCAL SAFETY ORDINANCES.

EXISTING CONDITIONS: ALL ABANDONED UTILITIES, FOOTINGS, ETC, THAT INTERFERE WITH NEW CONSTRUCTION SHALL BE REMOVED. NOTIFY THE STRUCTURAL ENGINEER SHOULD EXISTING FOUNDATIONS OR STRUCTURES BE ENCOUNTERED THAT ARE NOT SHOWN ON THE STRUCTURAL DRAWINGS.

BACKFILL: ALL EXCAVATIONS SHALL BE PROPERLY BACKFILLED. FOOTING BACKFILL AND UTILITY TRENCH BACKFILL WITHIN THE BUILDING PERIMETER SHALL BE MECHANICALLY COMPACTED IN LAYERS, TO THE APPROVAL OF THE GEOTECHNICAL ENGINEER. FLOODING WILL NOT BE PERMITTED. SEE THE GEOTECHNICAL REPORT FOR REQUIREMENTS. BACKFILL BEHIND RETAINING OR PIT WALLS BELOW GRADE SHALL NOT OCCUR UNTIL THE WALLS HAVE REACHED FULL DESIGN STRENGTH. PROPER BRACING TO PROTECT THE STRUCTURE AGAINST LATERAL LOADS SHALL BE IN PLACE PRIOR TO BACKFILL UNTIL THE ATTACHING FLOORS ARE IN PLACE AND HAVE REACHED FULL DESIGN STRENGTH.

CAST-IN-PLACE CONCRETE

REFERENCE STANDARDS: CONFORM TO:

- ACI 301-10 "SPECIFICATIONS FOR STRUCTURAL CONCRETE", WITH MODIFICATIONS AS NOTED ON THE PROJECT DRAWINGS AND SPECIFICATIONS
- IBC 2018 CHAPTER 19 "CONCRETE"
- ACI 318-14 WITH MODIFICATIONS AS NOTED ON THE PROJECT DRAWINGS AND SPECIFICATIONS
- ACI 117-10: SPECIFICATION FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS AND COMMENTARY RE-APPROVED 2015

FIELD REFERENCE: THE CONTRACTOR SHALL KEEP A COPY OF ACI FIELD REFERENCE MANUAL, SP-15, "STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE (ACI 301-10) WITH SELECTED ACI AND ASTM REFERENCES."

CONCRETE MIXTURES: CONFORM TO ACI 301 SECTION 4 "CONCRETE MIXTURES" AND ACI 318 SECTION 26.4.

MATERIALS: CONFORM TO ACI 301 SECTION 4.2.1 "MATERIALS" FOR REQUIREMENTS FOR CEMENTITIOUS MATERIALS, AGGREGATES, MIXING WATER AND ADMIXTURES.

- CEMENT
 - PORTLAND CEMENT SHALL CONFORM TO ASTM C150 TYPE II.
 - IF SULFATES ARE IN SOIL, PER GEOTECHNICAL REPORT, PROVIDE CEMENTITIOUS MATERIAL, MAXIMUM W/CM AND MINIMUM F_c CONCRETE STRENGTH PER EXPOSURE CATEGORY S "X" AND ACI 301 TABLE 4.2.2.7.a
 - DO NOT USE CONCRETE OR GROUT CONTAINING CHLORIDES.

SUBMITTALS: PROVIDE ALL SUBMITTALS REQUIRED BY ACI 301 SECTION 4.1.2. SUBMIT MIX DESIGNS TO THE SER FOR EACH MIX IN THE TABLE BELOW. SUBSTANTIATING STRENGTH RESULTS FROM PAST TESTS SHALL NOT BE OLDER THAN 24 MONTHS PER ACI 318 SECTION 26.4.3.1(b). ALL MIX DESIGNS SHALL BE VERIFIED BY A QUALIFIED TESTING LABORATORY. WHERE REQUIRED BY THE AUTHORITY HAVING JURISDICTION, MIX DESIGNS SHALL BE WET STAMPED BY A CIVIL ENGINEER LICENSED IN THE STATE IN WHICH THE PROJECT IS LOCATED.

TABLE OF MIX DESIGN REQUIREMENTS

MEMBER TYPE/LOCATION	MIN 28 DAY STRENGTH F _c (PSI)	MAXIMUM AGGREGATE	EXPOSURE CLASS	MAX W/C	AIR CONTENT
FOOTINGS, STEMWALLS, AND SLAB	3,500	3/4"	F1, C1	0.45	5%

TABLE OF MIX DESIGN REQUIREMENTS NOTES:

- W/C RATIO: WATER-CEMENTITIOUS MATERIAL RATIOS SHALL BE BASED ON THE TOTAL WEIGHT OF CEMENTITIOUS MATERIALS. MAXIMUM RATIOS ARE CONTROLLED BY STRENGTH NOTED IN THE TABLE OF MIX DESIGN REQUIREMENTS AND DURABILITY REQUIREMENTS GIVEN IN ACI 318 SECTION 19.3.2.
- CEMENTITIOUS MATERIALS:
 - THE USE OF FLY ASH, OTHER POZZOLANS, SILICA FUME, OR SLAG SHALL CONFORM TO ACI 318 SECTIONS 19.3.2 AND 19.3.3.4. MAXIMUM AMOUNT OF FLY ASH SHALL BE 20% OF TOTAL CEMENTITIOUS CONTENT UNLESS REVIEWED AND APPROVED OTHERWISE BY SER.
 - CEMENTITIOUS MATERIALS SHALL CONFORM TO THE RELEVANT ASTM STANDARDS LISTED IN ACI 318 SECTION 26.4.1.1. AND TABLE 26.4.2.2(b)
- AIR CONTENT: CONFORM TO ACI 318 SECTION 19.3.3.1. MINIMUM STANDARDS FOR EXPOSURE CLASS ARE NOTED IN THE TABLE. IF FREEZING AND THAWING CLASS IS NOT NOTED, AIR CONTENT GIVEN IS THAT REQUIRED BY THE SER. CONCRETE SURFACES IN CONTACT WITH THE SOIL REQUIRE ENTRAINED AIR. TOLERANCE IS ±1-11/2%. AIR CONTENT SHALL BE MEASURED AT POINT OF PLACEMENT.
- HARDROCK AGGREGATES (COARSE AND FINE) SHALL CONFORM TO ASTM C33. LIGHT-WEIGHT AGGREGATES SHALL CONFORM TO ASTM C330.
- SLUMP: CONFORM TO ACI 301 SECTION 4.2.2.2. SLUMP SHALL BE DETERMINED AT POINT OF DELIVERY.
- CHLORIDE CONTENT: CONFORM TO ACI 318 SECTION 19.3.2.1 AND TABLE 19.3.2.1.
- NON-CHLORIDE ACCELERATOR: NON-CHLORIDE ACCELERATING ADMIXTURE MAY BE USED IN CONCRETE PLACED AT AMBIENT TEMPERATURES BELOW 50°F AT THE CONTRACTOR'S OPTION.
- ACI 318, SECTION 19.3.1.1 EXPOSURE CLASSES SHALL BE ASSUMED TO BE F0, S0, P0, AND C0 UNLESS DIFFERENT EXPOSURE CLASSES ARE LISTED IN THE TABLE OF MIX DESIGN REQUIREMENTS THAT MODIFY THESE BASE REQUIREMENTS.
- ELEVATED SLABS AND BEAM CONCRETE MIXTURE SHALL HAVE A MAXIMUM SHRINKAGE OF 0.04 PERCENT AT 28 DAYS AS MEASURED BY ASTM C157.
- SUBMIT ASTM 1260, C1567, C1293 TESTING FOR ALL ALKALI-SILICA REACTION (ASR) FROM THE AGGREGATE SUPPLIER FOR BOTH THE COARSE AND FINE AGGREGATES. IN LIEU OF TESTING, A 10-YEAR SERVICE HISTORY FOR THE AGGREGATES MAY BE SUBMITTED.

CAST-IN-PLACE CONCRETE (CONT)

MEASURING, MIXING AND DELIVERY: CONFORM TO ACI 301 SECTION 4.3-EXECUTION.

- DO NOT ADD WATER TO CONCRETE DURING DELIVERY, AT PROJECT SITE, OR DURING PLACEMENT.

HANDLING, PLACING, CONSTRUCTING AND CURING: CONFORM TO ACI 301 SECTION 5. IN ADDITION, HOT WEATHER CONCRETING SHALL CONFORM TO ACI 305R-10 WITH 305.1-14 UPDATES AND COLD WEATHER CONCRETING SHALL CONFORM TO ACI 306R-10. CONCRETE CURING: PROVIDE CURING COMPOUNDS FOR CONCRETE AS FOLLOWS:

- USE MEMBRANE CURING COMPOUNDS THAT ARE COMPATIBLE WITH AND WILL NOT AFFECT SURFACES TO BE COVERED WITH FINISH MATERIALS APPLIED DIRECTLY TO CONCRETE.
- APPLY CURING COMPOUNDS AT A RATE EQUIVALENT TO THE RATE OF APPLICATION AT WHICH CURING COMPOUND WAS ORIGINALLY TESTED FOR IN CONFORMANCE TO THE REQUIREMENTS OF ASTM C 309-11 AND THE MANUFACTURER'S RECOMMENDATIONS.

CONSTRUCTION JOINTS: CONFORM TO ACI 301 SECTIONS. 2.2.2.5, 5.2.2.1 AND 5.3.2.6. CONSTRUCTION JOINTS SHALL BE LOCATED AND DETAILED AS ON THE CONSTRUCTION DRAWINGS. SUBMIT ALTERNATE LOCATIONS PER ACI 301 SECTION 5.1.2.3A FOR REVIEW AND APPROVAL BY THE SER (2) WEEKS MINIMUM PRIOR TO FORMING. USE OF AN ACCEPTABLE ADHESIVE, SURFACE RETARDANT, PORTLAND CEMENT GROUT OR ROUGHENING THE SURFACE IS NOT REQUIRED UNLESS SPECIFICALLY NOTED ON THE DRAWINGS.

EMBEDDED ITEMS: POSITION AND SECURE IN PLACE EXPANSION JOINT MATERIAL, ANCHORS AND OTHER STRUCTURAL (REINFORCING BARS, ANCHOR BOLTS AND OTHER EMBEDDED ITEMS) AND NON-STRUCTURAL EMBEDDED ITEMS BEFORE PLACING CONCRETE. CONTRACTOR SHALL REFER TO MECHANICAL, ELECTRICAL, PLUMBING AND ARCHITECTURAL DRAWINGS AND COORDINATE OTHER EMBEDDED ITEMS.

GROUT: USE 5000 PSI NON-SHRINK GROUT UNDER COLUMN BASE PLATES.

CONCRETE PLACEMENT TOLERANCE: CONFORM TO ACI 117 FOR CONCRETE PLACEMENT TOLERANCE. CONCRETE FORMS SHALL BE LAID OUT AND CONSTRUCTED TO PROVIDE THE SPECIFIED CAMBERS INDICATED IN THE STRUCTURAL DRAWINGS. CONCRETE PLACEMENT SHALL BE IN ACCORDANCE WITH ACI STANDARD 304R-00 AND PROJECT SPECIFICATIONS.

CONCRETE PREPARATION AND FINISH: CONCRETE SURFACES TO BE ROUGHENED TO 1/4" AMPLITUDE WHERE MASONRY WALLS INTERSECT CONCRETE OR WHERE NEW CONCRETE INTERFACES WITH EXISTING CONCRETE. THE PROJECTING CORNERS OF COLUMNS, BEAMS, AND WALLS, ETC, SHALL BE FORMED WITH A 3/4" CHAMFER, UNLESS OTHERWISE NOTED ON ARCHITECTURAL DRAWINGS OR SPECIFICATIONS.

ELEVATED SLAB PLACEMENT: IF COLUMNS AND WALLS ARE PLACED WITH A FLOOR, (2) HOURS MUST ELAPSE BETWEEN END OF COLUMN OR WALL PLACEMENT AND BEGINNING OF THE FLOOR PLACEMENT. MECHANICAL PIPES OR ELECTRICAL CONDUIT SHALL NOT PASS THROUGH CONCRETE COLUMNS OR BEAMS UNLESS SPECIFICALLY DETAILED.

SLABS: FOR SLABS ON GRADE AND CONCRETE ON STEEL DECK NO PIPES OR CONDUITS SHALL BE PLACED WITHIN THE INDICATED CONCRETE SLAB THICKNESS AND SHALL BE LOCATED BELOW THE SLAB UNLESS SPECIFICALLY DETAILED OTHERWISE.

CLEAR COVERAGE TO REINFORCING: CLEAR COVERAGE OF CONCRETE REINFORCING SHALL BE PER ACI 318 SECTION 20.6.1.3.1 AS FOLLOWS:

CLEAR COVERAGE OF REINFORCING

LOCATION OF CONCRETE	CONCRETE COVER
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH:	3"
CONCRETE EXPOSED TO EARTH OR WEATHER: #6 THROUGH #18 BAR #5 BAR AND SMALLER	2" 1 1/2"
CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND UNO: SLABS, WALLS AND JOISTS: #14 AND #18 BAR #11 BAR AND SMALLER	1 1/2" 3/4"

REINFORCING STEEL (FOR CONCRETE)

REINFORCING STEEL: ALL REINFORCING STEEL SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH THE 'BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE' (ACI 318-14) AND THE 'MANUAL OF STANDARD PRACTICE FOR REINFORCED CONCRETE CONSTRUCTION' BY CRSI AND WCRSI AS MODIFIED BY THE PROJECT DRAWINGS AND SPECIFICATIONS.

REINFORCING MATERIAL: DEFORMED REINFORCING BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615 GRADE 60 AND ASTM A706 GRADE 60 FOR DEFORMED WELDABLE BARS.

WELDING: WELDING OF REINFORCING IS PERMITTED ONLY WHERE SHOWN ON THE DRAWINGS OR WHEN APPROVED BY THE STRUCTURAL ENGINEER. WELDING OF REINFORCING BARS SHALL BE WITH LOW HYDROGEN ELECTRODES IN ACCORDANCE WITH AWS D1.4 "STRUCTURAL WELDING CODE - REINFORCING STEEL" AND ACI 318 SECTION 26.6.4. ALL REINFORCING STEEL SHALL CONFORM TO ASTM A706 GRADE 60, UNLESS NOTED OTHERWISE. SUBMIT WELDING PROCEDURE TO STRUCTURAL ENGINEER FOR ALL WELDED REINFORCEMENT. ELECTRODES USED SHALL BE E80 ELECTRODES FOR ASTM A706 GRADE 60 REINFORCEMENT AND E90 ELECTRODES FOR ASTM A615 REINFORCEMENT.

REINFORCING BAR BENDS: ALL REINFORCING BAR BENDS SHALL BE MADE COLD.

DOWELS: REINFORCING DOWELS BETWEEN FOOTINGS AND WALLS OR COLUMNS SHALL BE THE SAME NUMBER, SIZE, SPACING AND GRADE AS THE SPECIFIED VERTICAL REINFORCING, UNO

INSPECTION: ALL REINFORCING BARS SHALL BE MARKED SO THEIR IDENTIFICATION CAN BE MADE WHEN THE FINAL IN-PLACE INSPECTION OCCURS.

WIRE FABRIC: WELDED WIRE FABRIC SHALL CONFORM TO ASTM A1064. MINIMUM LAP OF WELDED WIRE FABRIC SHALL BE 6" OR ONE FULL MESH AND ONE HALF, WHICHEVER IS GREATER.

POST-INSTALLED ANCHORS (INTO CONCRETE)

DESIGN STANDARDS: POST-INSTALLED ANCHORS INTO CONCRETE FOR THIS PROJECT ARE DESIGNED IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE, ACI 318-14 CHAPTER 17

POST-INSTALLED ANCHORS: ALL ANCHORS AND THREADED RODS INSTALLED IN EXTERIOR OR DAMP ENVIRONMENTS SHALL BE GALVANIZED OR STAINLESS STEEL TO PROTECT AGAINST CORROSION. INSTALL ONLY WHERE SPECIFICALLY SHOWN IN THE DETAILS OR ALLOWED BY SER. ALL POST-INSTALLED ANCHORS TYPES AND LOCATIONS SHALL BE APPROVED BY THE SER AND SHALL HAVE A CURRENT ICC-EVALUATION SERVICE REPORT THAT PROVIDES RELEVANT DESIGN VALUES NECESSARY TO VALIDATE THE AVAILABLE STRENGTH EXCEEDS THE REQUIRED STRENGTH. SUBMIT CURRENT MANUFACTURER'S DATA AND ICC-ES REPORT TO SER FOR APPROVAL REGARDLESS OF WHETHER OR NOT IT IS A PRE-APPROVED ANCHOR. ANCHORS SHALL BE INSTALLED IN STRICT ACCORDANCE TO ICC-ES REPORT AND MANUFACTURER'S INSTRUCTIONS. NO REINFORCING BARS SHALL BE DAMAGED DURING INSTALLATION OF POST-INSTALLED ANCHORS. SPECIAL INSPECTION SHALL BE PER THE TESTS AND INSPECTIONS SECTION. ANCHOR TYPE, DIAMETER AND EMBEDMENT SHALL BE AS INDICATED ON DRAWINGS.

POST-INSTALLED ANCHORS (INTO CONCRETE) (CONT)

POST-INSTALLED ANCHORS AT POST-TENSIONED CONCRETE DECKS (EXTENDING INTO THE DEPTH WHERE TENDONS ARE PLACED) SHALL NOT BE USED UNLESS THE TENDONS HAVE BEEN LOCATED AND WILL NOT BE DAMAGED BY THE ANCHOR INSTALLATION.

- ADHESIVE ANCHORS: THE FOLLOWING ADHESIVE-TYPE ANCHORING SYSTEMS HAVE BEEN USED IN THE DESIGN AND SHALL BE USED FOR ANCHORAGE TO CONCRETE AND MASONRY, AS APPLICABLE AND IN ACCORDANCE WITH CORRESPONDING CURRENT ICC-ES REPORT. DRILLED-IN ANCHOR EMBEDMENT LENGTHS SHALL BE AS SHOWN ON DRAWINGS, OR NOT LESS THAN 7 TIMES THE ANCHOR NOMINAL DIAMETER (7D).
 - HILTI "HIT HY-200" - ICC ESR-3187 FOR ANCHORAGE TO CONCRETE ONLY
 - HILTI "HIT HY-270" - ICC ESR-4143 FOR ANCHORAGE TO MASONRY, ICC ESR-4144 FOR ANCHORAGE TO UNREINFORCED MASONRY
 - SIMPSON "SET-XP" - ICC ESR-2508 FOR ANCHORAGE TO CONCRETE ONLY
 - SIMPSON "SET" - ICC ESR-1772 FOR ANCHORAGE TO MASONRY ONLY
- EXPANSION ANCHORS:
 - HILTI "KB-TZ" - ICC ESR-1917 FOR ANCHORAGE TO CONCRETE ONLY
 - HILTI "KWIK BOLT 3" - ICC ESR-1385* FOR ANCHORAGE TO MASONRY ONLY
 - SIMPSON "STRONG-BOLT" - ICC ESR-3037 FOR ANCHORAGE TO CONCRETE ONLY
 - SIMPSON "WEDGE-ALL" - ICC ESR-1396 FOR ANCHORAGE TO MASONRY ONLY
- SCREW ANCHORS:
 - SIMPSON "TITEN HD" - ICC ESR-2713 FOR CONCRETE, ICC ESR-1056 FOR MASONRY

RENOVATION NOTES

DEMOLITION: CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS BEFORE COMMENCING ANY DEMOLITION. SHORING SHALL BE INSTALLED TO SUPPORT EXISTING CONSTRUCTION AS REQUIRED AND IN A MANNER SUITABLE TO THE WORK SEQUENCES. EXISTING REINFORCING SHALL BE SAVED WHERE AND AS NOTED ON THE PLANS. SAW CUTTING, IF AND WHERE USED, SHALL NOT CUT EXISTING REINFORCING THAT IS TO BE SAVED. DEMOLITION DEBRIS SHALL NOT BE ALLOWED TO DAMAGE OR OVERLOAD THE EXISTING STRUCTURE. LIMIT CONSTRUCTION LOADING (INCLUDING DEMOLITION DEBRIS) ON EXISTING FLOOR SYSTEMS TO 40 PSF.

- ALL NEW OPENINGS THROUGH EXISTING WALLS, SLABS AND BEAMS SHALL BE ACCOMPLISHED BY SAW CUTTING WHEREVER POSSIBLE.
- CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND LOCATION OF MEMBERS PRIOR TO CUTTING ANY OPENINGS.
- SMALL ROUND OPENINGS SHALL BE ACCOMPLISHED BY CORE DRILLING, IF POSSIBLE.
- WHERE NEW REINFORCING TERMINATES AT EXISTING CONCRETE, REBAR DOWELS EPOXIED INTO THE EXISTING CONCRETE SHALL BE PROVIDED TO MATCH HORIZONTAL REINFORCING, UNLESS OTHERWISE NOTED ON PLANS.

RENOVATION NOTES (CONT)

EXTERIOR WALLS: ALL EXTERIOR WALLS SHALL BE INSPECTED AND REPAIRED AS FOLLOWS: SCRAPE ALL LOOSE AND WEAKENED MORTAR OUT TO FULL DEPTH OF THE DETERIORATION; REMOVE AND REPLACE ANY LOOSE MASONRY UNITS; CHECK FOR LOOSE FACING BRICK VENEERS; TUCK POINT ALL JOINTS SOLID. ALL MASONRY RESTORATION AND REPAIR SHALL BE PERFORMED IN SUCH A MANNER THAT THE EXISTING STRUCTURE IS NOT WEAKENED OR LEFT UNSUPPORTED DURING THE PROCESS OF THE WORK. ALL EXTERIOR APPENDAGES SUCH AS FIRE ESCAPES, CORNICES AND EYEBROWS SHALL BE INSPECTED FOR STRUCTURAL INTEGRITY AND THE CONDITION OF THE CONNECTIONS TO THE STRUCTURE. THE CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER AS TO THE FINDINGS OF THIS INSPECTION.

EXISTING MASONRY SHEAR TEST: ALLOWABLE UNREINFORCED MASONRY STRESSES SHALL BE DETERMINED BY PERFORMING IN-PLACE SHEAR TESTS. TESTING IS TO BE IN ACCORDANCE WITH FEMA 178 AND THE IBC, INCLUDING ANY AMENDMENTS OF THE AUTHORITY HAVING JURISDICTION. TESTING IS TO BE PERFORMED BY AN APPROVED AGENCY. AN ACCURATE RECORD OF ALL SUCH TESTS AND THEIR LOCATION IN THE BUILDING SHALL BE RECORDED AND THESE RESULTS SHALL BE SUBMITTED TO THE BUILDING OFFICIAL FOR APPROVAL AS PART OF THE STRUCTURAL ANALYSIS.

THE MINIMUM NUMBER OF TESTS SHALL BE TWO PER WALL OR LINE OF WALL ELEMENTS RESISTING A COMMON FORCE, OR ONE TEST PER 1500 SQUARE FEET OF WALL SURFACE. THE MINIMUM NUMBER OF TESTS AND EXACT TEST LOCATION SHALL BE DETERMINED AT THE BUILDING SITE BY THE STRUCTURAL ENGINEER.

THE TEST SHALL BE PERFORMED BY REMOVING THE BRICK IMMEDIATELY ADJACENT TO THE TEST BRICK ON THE SAME LEVEL AND INSERTING A HYDRAULIC RAM INTO THIS SPACE. THE MORTAR IS TO BE REMOVED AT THE VERTICAL JOINT AT THE OTHER END OF THE BRICK BEING TESTED. THE LOAD IS TO BE APPLIED BY THE HYDRAULIC RAM UNTIL FAILURE OCCURS. THE LOAD SHALL BE RECORDED, ALONG WITH THE DIMENSIONS OF THE TEST BRICK, ITS LOCATIONS, AND SURCHARGE LOADS.

THE RESULTS OF THE TEST ARE TO BE SUBMITTED TO THE DPD, ALONG WITH A LETTER FROM THE STRUCTURAL ENGINEER OUTLINING THE PROPOSED ALLOWABLE SHEAR STRESS, FACTOR OF SAFETY AND MAXIMUM ACTUAL ANTICIPATED SHEAR STRESS.

DRYROT: CONTRACTOR SHALL CHECK FOR DRYROT AT ALL EXTERIOR WALLS, EXISTING TOILET ROOM FLOORS AND WALLS, AREAS SHOWING WATER STAINS, AND ALL WOOD MEMBERS IN BASEMENT AND CRAWL SPACES. ALL ROT SHALL BE REMOVED AND DAMAGED MEMBERS SHALL BE REPLACED OR REPAIRED AS DIRECTED BY THE STRUCTURAL ENGINEER OR ARCHITECT.

WOOD FRAMING

REFERENCE STANDARDS: CONFORM TO:

- IBC CHAPTER 23 "WOOD"
- NDS: "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION"
- APA PANEL DESIGN SPECIFICATION (D510)
- ANSI/TP11 "NATIONAL DESIGN STANDARD FOR METAL-PLATE-CONNECTED WOOD TRUSS CONSTRUCTION"
- BCSI "GUIDE TO GOOD PRACTICE FOR INSTALLING, RESTRAINING AND BRACING OF METAL PLATED CONNECTED WOOD TRUSSES"
- TP1 D5B "RECOMMENDED DESIGN SPECIFICATION FOR TEMPORARY BRACING OF METAL PLATE CONNECTED WOOD TRUSSES"
- APA REPORT TT-045B "MINIMUM NAIL PENETRATION FOR WOOD STRUCTURAL PANEL CONNECTIONS SUBJECT TO LATERAL LOADS"

SUBMITTALS: SUBMIT SHOP DRAWINGS TO THE ENGINEER OF RECORD (EOR) AND ARCHITECT FOR REVIEW. SHOP DRAWINGS SHALL INCLUDE MEMBER SIZE, SPACING, CAMBER, MATERIAL TYPE, GRADE, SHOP AND FIELD ASSEMBLY DETAILS AND CONNECTIONS, TYPES AND LOCATIONS OF BOLTS AND OTHER FASTENERS. SUBMIT PRODUCT DATA AND PROOF OF ICBO APPROVAL FOR FRAMING MEMBERS AND FASTENERS THAT HAVE BEEN DESIGNED BY OTHERS. SEE DEFERRED SUBMITTAL SECTION FOR SPECIFIC PRODUCTS TO BE DESIGNED BY OTHERS.

IDENTIFICATION: ALL SAWN LUMBER AND PRE-MANUFACTURED WOOD PRODUCTS SHALL BE IDENTIFIED BY THE GRADE MARK OR A CERTIFICATE OF INSPECTION ISSUED BY THE CERTIFYING AGENCY.

MATERIALS

- FRAMING LUMBER SHALL BE KILN DRIED OR MOISTURE CONTENT LESS THAN 19%, AND GRADED AND MARKED IN CONFORMANCE WITH DEPARTMENT OF COMMERCE (DOC) PRODUCT STANDARD (PS) 20 STANDARD GRADING RULES FOR AMERICAN SOFTWOOD LUMBER FURNISH TO THE FOLLOWING MINIMUM STANDARDS:

JOISTS: (2x, 3x, AND 4x MEMBERS) DOUGLAS FIR #2

BEAMS AND STRINGERS: (INCLUDING 6x AND LARGER MEMBERS) DOUGLAS FIR #1

POSTS AND TIMBERS: DOUGLAS FIR #1

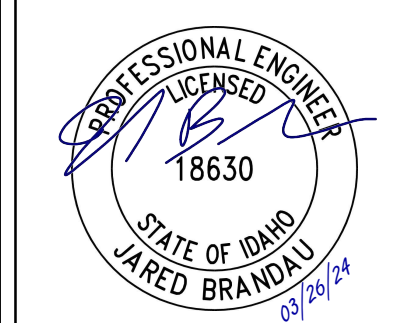
STUDS, PLATES AND MISCELLANEOUS LIGHT FRAMING: DOUGLAS FIR #2

- PRE-FABRICATED WOOD I-JOISTS SHALL BE DESIGNED AND MANUFACTURED PER ASTM D5055. THE MATERIALS FOR DESIGN ARE BASED ON I-JOISTS MANUFACTURED BY TRUS-JOIST. ALTERNATE PRODUCTS BY OTHER MANUFACTURERS MAY BE SUBSTITUTED PROVIDED THEY HAVE CURRENT ICC-ES OR IAPMO APPROVAL FOR EQUIVALENT OR GREATER LOAD AND STIFFNESS PROPERTIES AND ARE REVIEWED AND APPROVED BY THE STRUCTURAL ENGINEER.

- TAPERED AND PARALLEL CHORD I-JOISTS (DEFERRED SUBMITTAL) SHALL CONFORM TO ICC REPORT NO ESR-1153 OR PER ESR PER MANUFACTURER. THE MANUFACTURER SHALL DESIGN THE JOISTS FOR THE SPANS AND CONDITIONS SHOWN ON THE PLANS. JOISTS SHALL HAVE WOOD CHORDS AND SOLID WOOD WEBS. JOISTS SHALL BE TAPERED OR PARALLEL AS SHOWN ON THE PLANS.

- GLUED LAMINATED TIMBER SHALL CONFORM TO AITC 117-2015 "STANDARD SPECIFICATIONS FOR STRUCTURAL GLUE-LAMINATED TIMBER OF SOFTWOOD SPECIES, MANUFACTURING AND DESIGN" AND ANSI / AITC A190.1 "STRUCTURAL GLUED LAMINATED TIMBER." CAMBER ALL GLUED LAMINATED BEAMS, EXCEPT CANTILEVERED AND CONTINUOUS BEAMS, TO 3000' RADIUS, UNLESS SHOWN OTHERWISE ON THE PLANS. FURNISH TO THE FOLLOWING MINIMUM STANDARDS:

BEAMS: (SIMPLE SPAN) DF/DF - 24F-V4
BEAMS: (CONT OR CANTILEVER SPANS) DF/DF - 24F-V8
COLUMNS: (POST) DF - L2



200 BROAD STREET
BOISE, IDAHO
PHONE: 208-343-4635 • FAX: 208-343-1658
THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF THE ARCHITECT/ENGINEER. NO PART OF THESE DRAWINGS AND SPECIFICATIONS SHALL BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS WITHOUT THE WRITTEN CONSENT OF CSH&A. ITS AFFILIATES.
Copyright © 2022

ITD DIST. 3 BLDG. IMPROVEMENT
8150 West Chinden Boulevard
GARDEN CITY, ID
200 BROAD STREET
BOISE, ID 83702
(208) 343-4635 • FAX (208) 343-1658
http://www.cshqa.com



BUILDING IMPROVEMENT PERMIT SET

PROJECT 23002	DATE 10-30-23
DRAWN SD	CHECKED JB

REVISED

GENERAL NOTES

SHEET

S0.03

ORIGINAL SHEET SIZE
24" x 36"

GENERAL NOTES

WOOD FRAMING (CONT)

- CROSS LAMINATED TIMBER (CLT) SHALL BE DESIGNED AND MANUFACTURED PER ANSI/APA PRG320. THE MATERIALS USED FOR DESIGN ARE BASED ON COMPONENTS MANUFACTURED BY STRUCTURLAM. ALTERNATIVE PRODUCTS, BY OTHER MANUFACTURERS MAY BE SUBSTITUTED PROVIDED THEY HAVE A CURRENT ICC-ES OR IAPMO APPROVAL FOR EQUIVALENT OR GREATER LOADS. SUBSTITUTION REQUEST WITH ALL DOCUMENTATION TO BE SUBMITTED TO STRUCTURAL ENGINEER FOR REVIEW.
- WOOD STRUCTURAL SHEATHING (PLYWOOD) WOOD APA-RATED STRUCTURAL SHEATHING INCLUDES: ALL VENEER PLYWOOD, ORIENTED STRAND BOARD, WAFERBOARD, PARTICLEBOARD, T1-11 SIDING, AND COMPOSITES OF VENEER AND WOOD BASED MATERIAL WITH T&G JOINT. ARCHITECT AND/OR MANUFACTURER OF ARCHITECTURAL FINISHES MAY DISALLOW OSB AND/OR REQUIRE A MINIMUM THICKNESS OF SHEATHING, CONFIRM WITH ARCHITECT AND/OR MANUFACTURER FOR ALL CASES. CONFORM TO "CONSTRUCTION AND INDUSTRIAL PLYWOOD" BASED ON PRODUCT STANDARD PS 1-09 BY THE U.S. DEPT. OF COMMERCE, AND "PERFORMANCE STANDARD FOR WOOD BASED STRUCTURAL-USE PANELS" BASED ON PRODUCT STANDARD PS 2-10 BY THE U.S. DEPT OF COMMERCE AND "PANEL DESIGN SPECIFICATION (REVISED 2012)" BASED ON APA PDS-12 BY THE AMERICAN PLYWOOD ASSOCIATION. SHEATHING MAY BE REQUIRED TO BE FIRE TREATED BASED ON CONSTRUCTION TYPE, CONFIRM WITH ARCHITECT.

UNLESS OTHERWISE NOTED ON THE PLANS, ROOF AND FLOOR SHEATHING SHALL BE LAID UP WITH FACE GRAIN PERPENDICULAR TO SUPPORTS. FLOOR SHEATHING EDGES SHALL HAVE APPROVED TONGUE AND GROOVE JOINTS OR SHALL BE SUPPORTED WITH SOLID BLOCKING. ALLOW 1/8" SPACING AT ALL PANEL EDGES AND ENDS OF FLOOR AND ROOF SHEATHING. TOENAIL BLOCKING TO SUPPORTS WITH (2) 10d-F NAILS AT EACH END, UNLESS OTHERWISE NOTED. AT BLOCKED FLOOR AND ROOF DIAPHRAGMS PROVIDE FLAT 2x BLOCKING AT ALL UNFRAMED PANEL EDGES AND NAIL WITH EDGE NAILING SPACED PER PLANS.
- FRAMING LUMBER IN DIRECT CONTACT WITH CONCRETE OR MASONRY EXPOSED TO WEATHER OR BELOW GRADE, LUMBER WITH 12" OF EXPOSED GROUND CRAWL SPACE OR THAT ARE WITHIN 8" OF EARTH SHALL BE PRESERVATIVE TREATED AND MARKED PER IBC SECTION 2303.1.9 AND AWPA STANDARD U1 AND M4 FOR THE SPECIES, PRODUCT, PRESERVATIVE, AND END USE.
- STRUCTURAL COMPOSITE LUMBER (SCL) SHALL BE DESIGNED AND MANUFACTURED PER ASTM D5456. EACH MEMBER SHALL BEAR THE STAMP OF THE NAME AND PLANT NUMBER OF THE MANUFACTURER, THE GRADE AND THE INDEPENDENT INSPECTION AGENCY LOGO.

LAMINATED STRAND LUMBER (LSL) STRUCTURAL PROPERTIES			
BLOCKING (1 3/4" MINIMUM THICKNESS):	F _b = 2,325 PSI	E = 1.55 x 10 ⁶ PSI	F _v = 310 PSI
BEAMS AND HEADERS:	F _b = 2,325 PSI	E = 1.55 x 10 ⁶ PSI	F _v = 310 PSI
COLUMNS:	F _b = 1,700 PSI	E = 1.3 x 10 ⁶ PSI	F _v = 400 PSI
LAMINATED VENEER LUMBER (LVL) STRUCTURAL PROPERTIES			
BEAMS & HEADERS (1 1/2" & 1 3/4" WIDTH)	F _b = 2,600 PSI	E = 1.9 x 10 ⁶ PSI	F _v = 285 PSI
COLUMNS	F _b = 1,700 PSI	E = 1.3 x 10 ⁶ PSI	F _v = 425 PSI
PARALLEL STRAND LUMBER (PSL) STRUCTURAL PROPERTIES			
RESIDENTIAL	F _b = 2,900 PSI	E = 2.0 x 10 ⁶ PSI	F _v = 290 PSI
COMMERCIAL, D>18"	F _b = 2,900 PSI	E = 2.2 x 10 ⁶ PSI	F _v = 290 PSI
COMMERCIAL COLUMNS	F _b = 2,400 PSI	E = 1.8 x 10 ⁶ PSI	F _v = 190 PSI

DESIGN SHOWN ON PLANS IS BASED ON MATERIALS MANUFACTURED BY THE WEYERHAEUSER CORPORATION. ALTERNATE MANUFACTURERS MAY BE USED SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND STRUCTURAL ENGINEER.

- ENGINEERED WOOD RIM BOARD SHALL BE DESIGNED AND MANUFACTURED PER ANSI/APA PRR 410. THE MATERIALS SHALL BE MANUFACTURED WITH THE MINIMAL STRUCTURAL PROPERTIES AS FOLLOWS:

RIMBOARD LUMBER STRUCTURAL PROPERTIES			
1 1/4" - 1 1/2" LSL RIM	F _b = 1,700 PSI	E = 1.3 x 10 ⁶ PSI	F _v = 425 PSI
1 3/4" LSL RIM	F _b = 2,325 PSI	E = 1.55 x 10 ⁶ PSI	F _v = 310 PSI

DESIGN SHOWN ON PLANS IS BASED ON MATERIALS MANUFACTURED BY THE WEYERHAEUSER CORPORATION. ALTERNATE MANUFACTURERS MAY BE USED SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND STRUCTURAL ENGINEER. THE MINIMUM RIM THICKNESS SHALL BE 1 1/4" UNO ON PLAN OR IN REFERENCED DETAILS.

THE MATERIALS USED FOR DESIGN ARE BASED ON MEMBERS MANUFACTURED BY WEYERHAEUSER. ALTERNATIVE PRODUCTS, BY OTHER MANUFACTURERS MAY BE SUBSTITUTED PROVIDED THEY HAVE CURRENT ICC-ES OR IAPMO APPROVAL FOR EQUIVALENT OR GREATER LOADS. SUBSTITUTION REQUEST WITH ALL DOCUMENTATION TO BE SUBMITTED TO STRUCTURAL ENGINEER FOR REVIEW.

WOOD CONSTRUCTION CONNECTORS: SHALL BE SIMPSON STRONG-TIE AS SPECIFIED IN THEIR LATEST CATALOG. ALTERNATE CONNECTORS BY OTHER MANUFACTURERS MAY BE SUBSTITUTED PROVIDED THEY HAVE CURRENT ICC APPROVAL FOR EQUIVALENT OR GREATER LOAD CAPACITIES AND ARE REVIEWED AND APPROVED BY THE STRUCTURAL ENGINEER PRIOR TO ORDERING. CONNECTORS SHALL BE INSTALLED PER THE MANUFACTURER'S INSTRUCTIONS WITH PROPER FASTENER TYPE. WHERE CONNECTOR STRAPS CONNECT (2) MEMBERS, PLACE ONE-HALF OF THE NAILS OR BOLTS IN EACH MEMBER. WHERE STRAPS ARE USED AS HOLD-DOWNS, NAIL STRAPS TO WOOD FRAMING JUST PRIOR TO DRYWALL APPLICATION, AS LATE AS POSSIBLE IN THE FRAMING PROCESS TO ALLOW THE WOOD TO SHRINK AND THE BUILDING TO SETTLE. PREMATURE NAILING OF THE STRAP MAY LEAD TO STRAP BUCKLING AND POTENTIAL FINISH DAMAGE.

WHERE CONNECTORS ARE IN EXPOSED EXTERIOR APPLICATIONS IN CONTACT WITH PRESERVATIVE TREATED WOOD (PT) OTHER THAN SBX/DOT AND ZINC BORATE IN AN INTERIOR, DRY ENVIRONMENT, CONNECTORS SHALL BE EITHER BATCH HOT-DIPPED GALVANIZED, MECHANICALLY GALVANIZED (ASTM B695, CLASS 40 OR GREATER) STAINLESS STEEL, OR PROVIDED WITH 1.85 OZ/SF OF ZINC GALVANIZING EQUAL TO OR BETTER THAN SIMPSON ZMAX FINISH.

WOOD FRAMING (CONT)

FASTENERS (NAILS, BOLTS, SCREWS, ETC) ATTACHING TIMBER CONNECTORS JOIST HANGERS, POST CAPS AND BASES, ETC) TO PT WOOD SHALL HAVE SIMILAR CORROSION RESISTANCE PROPERTIES (MATCHING PROTECTIVE TREATMENTS) AS THE PROTECTED CONNECTOR. FASTENERS (NAILS, BOLTS, SCREWS, ETC) ATTACHING SAWN TIMBER MEMBERS OR SHEATHING (SHEAR WALLS) TO PT WOOD BE CORROSION RESISTANT; NAILS AND LAG BOLTS SHALL BE EITHER HOT-DIPPED GALVANIZED (ASTM A153) OR STAINLESS STEEL. VERIFY THE SUITABILITY OF THE FASTENER PROTECTION/COATING WITH THE WOOD TREATMENT CHEMICAL MANUFACTURER/SUPPLIER.

PROVIDE STANDARD CUT WASHERS UNDER THE HEADS AND NUTS OF ALL BOLTS AND LAG SCREWS BEARING ON WOOD. ALL NAILS 12D AND SMALLER SHALL BE FULL LENGTH COMMON UNLESS NOTED OTHERWISE. NAIL STRAPS TO WOOD FRAMING AS LATE AS POSSIBLE IN THE FRAMING PROCESS TO ALLOW THE WOOD TO SHRINK AND THE BUILDING TO SETTLE. PREMATURE NAILING OF THE STRAP MAY LEAD TO STRAP BUCKLING AND POTENTIAL FINISH DAMAGE.

PLATE WASHERS AT SHEARWALLS: IN ADDITION TO STANDARD CUT WASHERS, 0.229"x3"x3" MINIMUM STEEL PLATE WASHERS ARE REQUIRED AT ALL SHEARWALLS AND WHERE DENOTED ON PLANS AND/OR IN REFERRED DETAILS TO AVOID CROSS GRAIN BENDING IN BOTTOM PLATE. PLATE WASHERS ARE PERMITTED TO BE DIAGONALLY SLOTTED WITH A WIDTH OF UP TO 3/16" LARGER THAN THE BOLT DIAMETER AND A SLOT LENGTH NOT TO EXCEED 1 3/4". PLATE WASHERS SHALL EXTEND TO WITHIN 1/2" OF THE EDGE OF PLATE ON THE SIDE(S) WITH SHEATHING OR OTHER MATERIAL RATED FOR SHEAR. LARGER WASHERS ARE REQUIRED AT DOUBLE SIDED SHEARWALLS TO ACHIEVE MINIMUM 1/2" DIMENSION FROM BOTH SIDES UNO.

FASTENERS: CONFORM TO IBC SECTION 2304.10 "CONNECTIONS AND FASTENERS." UNLESS NOTED ON PLANS, NAIL PER TABLE 2304.10.1. UNLESS NOTED OTHERWISE ALL NAILS SHALL BE COMMON. ALTERNATE NAILS MAY BE USED BUT ARE SUBJECT TO REVIEW AND APPROVAL BY THE STRUCTURAL ENGINEER. SUBSTITUTION OF STAPLES FOR THE NAILING OF RATED SHEATHING IS SUBJECT TO REVIEW BY THE STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION.

LAG SCREWS/BOLTS: CONFORM TO ASTM A307 AND IBC SECTION 2304.10.

NAILING REQUIREMENTS: PROVIDE MINIMUM NAILING IN ACCORDANCE WITH IBC TABLE 2304.10.1. "FASTENING SCHEDULE" EXCEPT AS NOTED ON THE DRAWINGS. NAILING FOR ROOF/FLOOR DIAPHRAGMS/SHEAR WALLS SHALL BE PER DRAWINGS. NAILS SHALL BE DRIVEN FLUSH AND SHALL NOT FRACTURE THE SURFACE OF SHEATHING.

WOOD FASTENERS: NAIL SIZES SPECIFIED ON DRAWINGS ARE BASED ON THE FOLLOWING SPECIFICATIONS:

WOOD FASTENERS			
DRAWING ID	NAIL NAME	NAIL DIAMETER	NAIL LENGTH
"6d"	6d COMMON	0.113"	2"
"8d BOX"	8d BOX	0.113"	2 1/2"
"8d"	8d COMMON	0.131"	2 1/2"
"10d-F"	10d FRAMER	0.131"	3"
"10d"	10d COMMON	0.148"	3"
"16d SINKER"	16d SINKER	0.148"	3 1/4"
"16d-S"	16d SHORT	0.131"	3 1/4"
"16d"	16d COMMON	0.162"	3 1/2"

IF CONTRACTOR PROPOSES THE USE OF ALTERNATE NAILS, THEY SHALL SUBMIT NAIL SPECIFICATIONS TO THE STRUCTURAL ENGINEER (PRIOR TO CONSTRUCTION) FOR REVIEW AND APPROVAL.

NAILS: SHEATHING FASTENERS TO FRAMING SHALL BE DRIVEN FLUSH TO FACE OF SHEATHING WITH NO COUNTERSINKING PERMITTED.

HOT DIPPED GALVANIZED NAILS, BOLTS AND METAL PLATES: ALL NAILS, BOLTS AND METAL PLATES IN CONTACT WITH PRESSURE TREATED (INCLUDING FIRE-RETARDANT TREATED) LUMBER SHALL BE HOT DIPPED GALVANIZED. HARDWARE IN CONTACT WITH SBX/DOT AND ZINC BORATE TREATED IN AN INTERIOR, DRY ENVIRONMENT IS NOT REQUIRED TO BE HOT DIPPED GALVANIZED.

STANDARD LIGHT-FRAME CONSTRUCTION: UNLESS NOTED ON THE PLANS, CONSTRUCTION SHALL CONFORM TO IBC SECTION 2308, "CONVENTIONAL LIGHT-FRAME CONSTRUCTION."

NAILERS ON STEEL COLUMNS AND BEAMS: WOOD 3x OR (2)2x NAILERS ARE GENERALLY REQUIRED ON ALL HSS COLUMNS AND STEEL BEAMS ABUTTING OR EMBEDDED WITHIN WOOD FRAMING. UNLESS NOTED OTHERWISE, ATTACH WITH 5/8" DIAMETER BOLTS OR WELDED THREADED STUDS @ 16" ON CENTERS. WOOD NAILERS ON BEAMS SUPPORTING JOIST HANGERS SHALL NOT OVERHANG THE BEAM FLANGE BY MORE THAN 1/4".

MOISTURE CONTENT: WOOD MATERIAL USED FOR THIS PROJECT SHALL HAVE MAXIMUM MOISTURE CONTENT OF 19%. REFER TO TESTING AND INSPECTIONS FOR THE VERIFICATION OF THESE LIMITS. THE MAXIMUM MOISTURE CONTENT REQUIRED MAY BE LESS THAN 19% WHEN BASED ON A PARTICULAR CLADDING/INSULATION SYSTEM. REFER TO THE ARCHITECT'S DRAWINGS, AND PROJECT SPECIFICATIONS, OR WITH CLADDING INSTALLER FOR MAXIMUM RECOMMENDED MOISTURE CONTENT.

MOISTURE CONTENT: WOOD MATERIAL USED FOR THIS PROJECT SHALL HAVE MAXIMUM MOISTURE CONTENT OF 19%. REFER TO TESTING AND INSPECTIONS FOR THE VERIFICATION OF THESE LIMITS. THE MAXIMUM MOISTURE CONTENT REQUIRED MAY BE LESS THAN 19% WHEN BASED ON A PARTICULAR CLADDING/INSULATION SYSTEM. REFER TO THE ARCHITECT'S DRAWINGS, AND PROJECT SPECIFICATIONS, OR WITH CLADDING INSTALLER FOR MAXIMUM RECOMMENDED MOISTURE CONTENT.

CLADDING COMPATIBILITY: THE ARCHITECT/OWNER SHALL REVIEW THE CLADDING AND INSULATION SYSTEMS PROPOSED FOR THE PROJECT WITH RESPECT TO THEIR PERFORMANCE OVER WOOD STUDS WITH MOISTURE CONTENTS GREATER THAN 19%. EIFS SYSTEMS SHOULD BE AVOIDED ON WOOD-FRAMED PROJECTS DUE TO PROBLEMS WITH MOISTURE PROOFING.

WOOD SHRINKAGE AND EXPANSION: WOOD MATERIALS WILL EXPAND OR CONTRACT BASED ON RELATIVE CHANGES IN MOISTURE CONTENT. THE CONTRACTOR IS RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION RELATED TO MITIGATING AND MANAGING THE EFFECTS OF CHANGES IN MOISTURE.

CONSTRUCTION TYPE: WHERE DENOTED ON ARCHITECTURAL DRAWINGS, LUMBER MAY BE REQUIRED TO BE FIRE TREATED. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR SUCH INSTANCES AND FIRE DETAILING REQUIREMENTS UNO ON STRUCTURAL DRAWINGS.

VENEER TIES

WOOD STUDS: FOR WOOD AND STEEL STUD CONSTRUCTION USE "DUR-O-WAL - D/A213 HOT-DIPPED GALVANIZED WITH 3/16" WIRE PINTLE", OR APPROVED EQUIVALENT. INSTALL AT 4" VENEERS SPACED @ 16" OC MAX VERTICAL AND 16" OC HORIZONTAL. USE 2-D/A808 CO-POLYMER COATED SCREWS PER ANCHOR.

STEEL STUDS (CFS): FOR COLD FORMED STEEL STUD CONSTRUCTION USE "DUR-O-WAL - D/A213 HOT-DIPPED GALVANIZED WITH 3/16" WIRE PINTLE", OR APPROVED EQUIVALENT. INSTALL AT 4" VENEERS SPACED @ 16" OC MAX VERTICAL AND 16" OC HORIZONTAL. USE 2-D/A807 CO-POLYMER COATED SCREWS PER ANCHOR.

CMU: FOR CMU CONSTRUCTION USE "16GA X 7/8" WIDE HOT-DIPPED GALVANIZED WALL TIE. INSTALL AT 4" VENEERS SPACED SO AS TO SUPPORT NOT MORE THAN 2 SF OF WALL AREA, BUT NOT MORE THAN 24" OC HORIZONTALLY.

CONCRETE: FOR CONCRETE CONSTRUCTION USE "DUR-O-WAL - D/A5213 HOT-DIPPED GALVANIZED WITH 3/16" WIRE PINTLE AND MECHANICAL FASTENER INCLUDED", OR APPROVED EQUIVALENT. INSTALL AT 4" VENEERS SPACED SO AS TO SUPPORT NOT MORE THAN 2 SQUARE FEET OF WALL AREA, BUT NOT MORE THAN 24" OC HORIZONTALLY.

STRUCTURAL STEEL

DESIGN STANDARDS: STRUCTURAL STEEL FOR THIS PROJECT IS DESIGNED IN ACCORDANCE WITH AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS. STRUCTURAL STEEL FOR THIS PROJECT IS DESIGNED PER AISC STEEL CONSTRUCTION MANUAL, FOURTEENTH EDITION.

- REFERENCE STANDARDS:**
- IBC, CHAPTER 22 STEEL, HEREAFTER REFERENCED AS IBC.
 - ANSI/AISC 303-16 - CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES, HEREAFTER REFERENCED AS AISC 303.
 - ANSI/AISC 360-16 - SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, HEREAFTER REFERENCED AS AISC 360.
 - RCSC 2014 - SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS, PREPARED BY "RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS, HEREAFTER REFERENCED AS RCSC.
 - AWS D1.1-2015 - STRUCTURAL WELDING CODE- STEEL, HEREAFTER REFERENCED AS AWS D1.1.

- SUBMITTALS:**
- SHOP DRAWINGS SHALL BE PREPARED IN ACCORDANCE WITH AISC 360 SECTION M.1 AND AISC 303 SECTION 4.
 - SUBMIT WELDER'S CERTIFICATES VERIFYING QUALIFICATION WITHIN PAST 12 MONTHS.
 - AFFIDAVIT STATING THE STEEL PROVIDED MEETS THE REQUIREMENTS OF THE GRADE(S) SPECIFIED.
 - MANUFACTURER'S ENGINEERING AND INSTALLATION INFORMATION FOR POST-INSTALLED ANCHORS INCLUDING APPLICABLE ICC EVALUATION SERVICE (ESR-XXXX) REPORT.
 - QA PLAN AND PROCEDURES OF FABRICATION SHOP.

STEEL MATERIALS	
WIDE FLANGE (W), TEE (WT) SHAPES	ASTM A992, F _y = 50 KSI
CHANNEL (C), ANGLES (L), PLATES (PL), AND BARS	ASTM A36, F _y = 36 KSI
HOLLOW STRUCTURAL SECTION SQUARE/RECT (HSS) ROUND (HSS)	ASTM A500, GRADE C F _y = 50 KSI ASTM A500, GRADE C F _y = 46 KSI
WELDED HEADED STUDS	ASTM A108
WELDING ELECTRODES	E70XX, E71TXX UNLESS NOTED OTHERWISE WITH A MINIMUM TOUGHNESS OF 20 FT-LBS AT 40° F
ANCHOR RODS (UNO)	ASTM F1554, GRADE 36, F _y =36 KSI

ALL MEMBERS ARE TO BE ERECTED WITH THE NATURAL MILL CAMBER OR INDUCED CAMBER UP, UNLESS OTHERWISE NOTED ON THE DRAWINGS. BEAM CAMBER ON THE DRAWINGS IS THE UPWARD CAMBER REQUIRED IN THE BEAM AS DELIVERED TO THE JOBSITE. CONTRACTOR TO CONSIDER CAMBER LOSS, IF ANY, DUE TO SHIPPING AND HANDLING.

- WELDING:**
- WELDING SHALL CONFORM TO AWS D1.1 AND VISUALLY CONFORM TO AWS SECTION 6 AND TABLE 6.1. FABRICATION/ERECTION INSPECTIONS BY THE CONTRACTOR PER AWS D1.1 SECTION 6, SHALL BE BY ASSOCIATE/CERTIFIED INSPECTORS (CAWI/CWI) PER AWS QC1 OR AWS B5.1. SPECIAL INSPECTIONS (VERIFICATION INSPECTIONS) SHALL BE BY A CERTIFIED WELDING INSPECTOR (CWI) OR SENIOR WELDING INSPECTOR (SCWI) PER AWS B5.1.
 - WELDERS SHALL BE QUALIFIED FOR THE SPECIFIC PRE-QUALIFIED JOINTS REQUIRED BY THE DESIGN AND CERTIFIED IN ACCORDANCE WITH AWS REQUIREMENTS.
 - WELDER QUALIFICATIONS AND WPS'S SHALL BE MAINTAINED AT THE SITE OF THE WORK AND SHALL BE READILY AVAILABLE FOR INSPECTION UPON REQUEST, BOTH IN THE SHOP AND IN THE FIELD.
 - USE E70 OR E71T, 70 KSI STRENGTH ELECTRODES APPROPRIATE FOR THE PROCESS SELECTED.
 - WELDING OF SHEAR STUDS ON STEEL BEAMS FOR COMPOSITE CONSTRUCTION: HEADED BEAM STUDS WELDED TO TOPS OF WIDE FLANGE BEAMS, SHALL BE WELDED IN ACCORDANCE WITH AWS D1.1 CHAPTER 7 "STUD WELDING".
 - WELDING OF HEADED STUDS ON EMBEDDED STEEL PLATES FOR ANCHORAGE TO CONCRETE: HEADED STUDS WELDED TO STEEL EMBEDMENT PLATES CAST MONOLITHIC WITH CONCRETE AND SHALL BE WELDED IN ACCORDANCE WITH AWS D1.1 CHAPTER 7 "STUD WELDING", UNLESS NOTED OTHERWISE ON PLANS.

HIGH-STRENGTH BOLTING: HIGH STRENGTH BOLTS SHALL BE OF THE ASTM GRADE AND TYPE SPECIFIED IN THE DRAWINGS. UNLESS NOTED OTHERWISE, INSTALL BOLTS IN JOINTS IN ACCORDANCE WITH THE RCSC SPECIFICATION AS JOINT TYPE ST, "SNUG TIGHT" - PER RCSC SPECIFICATION TABLE 4.1 AND SECTION 8.1. INSPECTION IS PER RCSC SECTION 9.1. BOLTS HAVE BEEN DESIGNED AS ASTM F3125 GRADE A325-N BOLTS - "THREADS INCLUDED IN THE SHEAR PLANE".

STRUCTURAL STEEL (CONT)

- PROTECTIVE COATING REQUIREMENTS:**
- SHOP PAINTING: CONFORM TO AISC 360 SECTION M3 AND AISC 303 SECTION 6.5 UNLESS A MULTI-COAT SYSTEM IS REQUIRED PER THE PROJECT SPECIFICATIONS.
 - INTERIOR STEEL:
 - UNLESS NOTED OTHERWISE, DO NOT PAINT STEEL SURFACES TO BE:
 - CONCEALED BY THE INTERIOR BUILDING FINISHES,
 - FIREPROOFED,
 - EMBEDDED IN CONCRETE,
 - SPECIALLY PREPARED AS A "FAYING SURFACE" FOR TYPE-SC "SLIP-CRITICAL" BOLTED CONNECTIONS, UNLESS THE COATING CONFORMS TO REQUIREMENTS OF THE RCSC BOLT SPECIFICATION AND IS APPROVED BY THE ENGINEER.
 - WELDED; IF AREA REQUIRES PAINTING, DO NOT PAINT UNTIL AFTER WELD INSPECTIONS AND NON-DESTRUCTIVE TESTING REQUIREMENT, IF ANY, ARE SATISFIED.
 - INTERIOR STEEL, EXPOSED TO VIEW, SHALL BE PAINTED WITH ONE COAT OF SHOP PRIMER UNLESS OTHERWISE INDICATED IN THE PROJECT SPECIFICATIONS. FIELD TOUCH-UPS TO MATCH THE FINISH COAT OR AS OTHERWISE INDICATED IN THE PROJECT SPECIFICATIONS
 - EXTERIOR STEEL: EXPOSED EXTERIOR STEEL SHALL BE PROTECTED BY EITHER:
 - PAINT WITH AN EXTERIOR MULTI-COAT SYSTEM AS PER THE PROJECT SPECIFICATIONS.
 - FIELD TOUCH-UP PAINTING SHALL AS PER THE PROJECT SPECIFICATIONS.
 - GALVANIZED PER ASTM A123 TO PROTECT AGAINST CORROSION.

STEEL STAIRS

- REFERENCE STANDARDS:** CONFORM TO:
- IBC CHAPTER 10 "MEANS OF EGRESS", IBC TABLES 1607.1 (30)
 - NAAMM "METALS STAIRS MANUAL"
 - AISC 360-16 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS"
 - AISI 100-16 "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS"
 - AWS D1.1 - 2015 "STRUCTURAL WELDING CODE- STEEL"
 - AWS D1.3 - 2008 "STRUCTURAL WELDING CODE- SHEET STEEL"

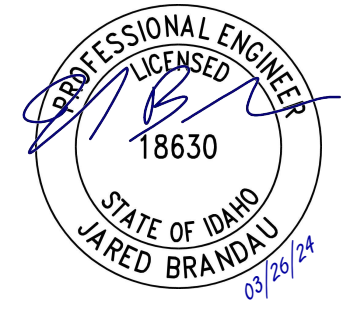
SUBMITTALS: STEEL STAIRS ARE TO BE PREPARED BY A SSE. REFERENCE DEFINITIONS AND DEFERRED SUBMITTALS ABOVE. SUBMIT STRUCTURAL CALCULATIONS AND SHOP DRAWINGS (COMPONENT DESIGN DRAWINGS) STAMPED BY A PROFESSIONAL CIVIL ENGINEER REGISTERED IN THE STATE OF THE PROJECT.

MATERIALS: MATERIALS SHALL MATCH THE MATERIALS SPECIFIED IN THE STRUCTURAL STEEL SECTION.

- STRUCTURAL REQUIREMENTS:**
- SCOPE: INCLUDE TREADS, RISERS, STRINGERS, LANDINGS, RAILINGS AND ALL CONNECTIONS INCLUDING CONNECTIONS TO THE PRIMARY STRUCTURE UNLESS NOTED OTHERWISE. ALL INSERTS REQUIRED FOR ATTACHMENT TO THE PRIMARY STRUCTURE SHALL BE DESIGNED AND PROVIDED BY THE STAIR SUPPLIER.
 - LOADS: STAIR TREADS SHALL BE DESIGNED FOR 100 PSF LIVE LOAD OR A 300 LB CONCENTRATED LOAD PLACED TO PRODUCE MAXIMUM STRESS, WHICHEVER CONTROLS. STRINGERS AND LANDINGS SHALL BE DESIGNED FOR 100 PSF LIVE LOAD. LIVE LOAD DEFLECTION SHALL NOT EXCEED 1/360 OF THE SPAN. THE STAIR ASSEMBLY AND ATTACHMENT TO THE MAIN STRUCTURE SHALL BE DESIGNED FOR LATERAL LOADS PER IBC CHAPTER 16.
 - RAILINGS: THE COMPLETED HANDRAIL, GUARDRAIL, AND SUPPORTING STRUCTURE AND THEIR CONNECTIONS SHALL BE DESIGNED TO RESIST LOADS AS SPECIFIED IN IBC SECTION 1607.8.

ARCHITECTURAL REQUIREMENTS: CONFORM TO SHAPE AND CONFIGURATION SHOWN ON THE ARCHITECTURAL DRAWINGS. CONSULT THE PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION. ALL STEEL SHALL BE PAINTED PER PROJECT SPECIFICATIONS WITH ONE COAT OF STANDARD SHOP PRIMER UNLESS NOTED OTHERWISE ON THE DRAWINGS OR IN THE SPECIFICATIONS.

CONCRETE FILL: CONFORM TO NOTES, THIS SHEET FOR CAST-IN-PLACE CONCRETE AND CONCRETE REINFORCEMENT. PROVIDE MINIMUM 3000 PSI CONCRETE AND WWF 6X6-W1.4XW1.4 OR FIBERMESH UNLESS NOTED ON THE DRAWINGS.

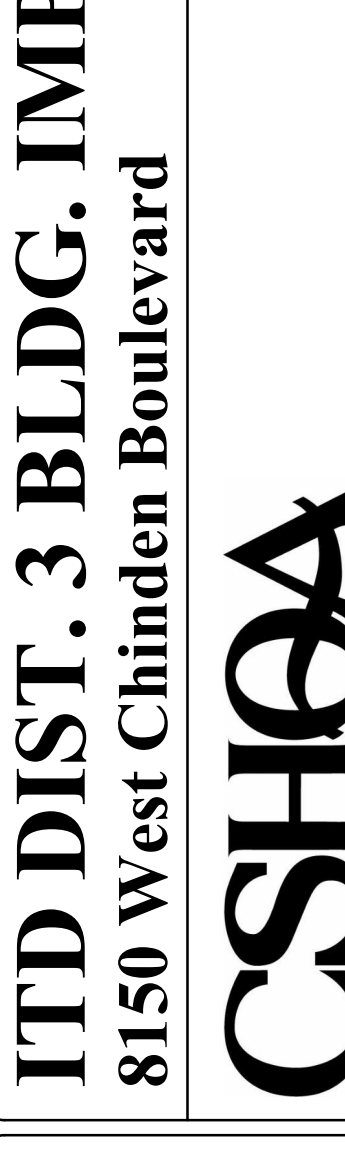


200 BROAD STREET
BOISE, IDAHO
PHONE: 208-343-4635 • FAX: 208-343-1858

THESE DRAWINGS AND SPECIFICATIONS ARE BEING PREPARED BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION AND I AM A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF IDAHO. I AM NOT PROVIDING THESE DRAWINGS AND SPECIFICATIONS AS A BASIS FOR ANY OTHER PROJECTS OR FOR ANY OTHER PURPOSES WITHOUT THE WRITTEN CONSENT OF CS&HA. I AM NOT PROVIDING THESE DRAWINGS AND SPECIFICATIONS AS A BASIS FOR ANY OTHER PROJECTS OR FOR ANY OTHER PURPOSES WITHOUT THE WRITTEN CONSENT OF CS&HA OR ITS AFFILIATES.
Copyright © 2022

ITD DIST. 3 BLDG. IMPROVEMENT
8150 West Chinden Boulevard
GARDEN CITY, ID

200 BROAD STREET
BOISE, ID 83702
(208) 343-4635 • FAX (208) 343-1858
http://www.cshqa.com



BUILDING IMPROVEMENT PERMIT SET

PROJECT 23002	DATE 10-30-23
DRAWN SD	CHECKED JB

REVISED

SHEET TITLE
GENERAL NOTES

SHEET
S0.04
ORIGINAL SHEET SIZE
24" x 36"



GENERAL NOTES

COLD-FORMED STEEL FRAMING

REFERENCE STANDARDS: CONFORM TO:

1. AISI S100-16 "NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS."
2. AISI S200-12 "NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL FRAMING - GENERAL PROVISIONS"
3. AISI S212-07 "NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL FRAMING - HEADER DESIGN"
4. AISI S211-07 S1-12 "NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL FRAMING - WALL STUD DESIGN"
5. AISI S213-07 S1-09 "NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL FRAMING - LATERAL DESIGN."
6. AWS D1.3 - 2018 "STRUCTURAL WELDING CODE - SHEET STEEL."

MATERIALS: STRUCTURAL SECTIONS: 54, 68 AND 97-MIL; ASTM A653 GRADE D OR ASTM A1011 GRADE 50, MIN FY=50 KSI 33 AND 43-MIL; ASTM A653 GRADE A, OR ASTM A1011 GRADE 33, MIN FY=33 KSI

SHEET METAL SCREWS GRABBER SELF-DRILLING, #10 SCREWS (ASTM C1513) UNLESS NOTED OTHERWISE ON DRAWINGS OR SER APPROVED ALTERNATE

FASTENERS TO STEEL HILTI X-U POWDER ACTUATED FASTENERS

FASTENERS TO CONCRETE HILTI X-U POWDER ACTUATED FASTENERS PER THE "SHOT PINS" SECTION BELOW

WELD MATERIAL E60XX ELECTRODES CONFORMING TO AWS D1.3

STUDS AND TRACK SPECIFIED AS GALVANIZED SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A653, G60, UNLESS IN CONTACT WITH PRESSURE TREATED WOOD. IF IN CONTACT WITH PRESSURE TREATED WOOD, USE G90 OR GREATER COATINGS. FASTENINGS NOT SHOWN ON THE DRAWINGS SHALL BE AS RECOMMENDED BY THE MANUFACTURER.

SIZE AND PROFILE: COLD-FORMED STEEL FRAMING MEMBERS SHALL BE AS SPECIFIED IN THE STEEL STUD MANUFACTURER'S ASSOCIATION ICC EVALUATION REPORT ESR-3064P AND OF THE SIZE AND PROFILE AS SHOWN ON THE DRAWINGS. ALTERNATE MEMBERS EQUIVALENT IN SHAPE, SIZE, AND STRENGTH BY MANUFACTURERS NOT MEMBERS OF THE STEEL STUD MANUFACTURER'S ASSOCIATION SHALL BE SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT / ENGINEER.

JOISTS: SPANS ARE ASSUMED TO BE CONTINUOUSLY SHEATHED AT THE TOP FLANGE. ALL JOISTS MUST BE BRACED Laterally AT EACH END BY RIM TRACK OR BLOCKING. JOIST BRIDGING SHALL BE A MAXIMUM 8'-0" OC WEB PUNCH-OUTS SHALL BE LOCATED A MINIMUM OF 10" AWAY FROM BEARING POINTS. IF A PUNCH-OUT FALLS WITHIN 10" OF A BEARING POINT, REINFORCEMENT IS REQUIRED.

CONNECTORS AND FASTENERS: CONNECTORS SHALL BE INSTALLED PER THE MANUFACTURER'S INSTRUCTIONS. ALL SCREWS SHALL BE SNUG WITH THE STEEL SURFACE AND SHALL PENETRATE INTO STEEL STUDS BY A MINIMUM OF (3) EXPOSED THREADS. CONNECTIONS SHALL NOT BE STRIPPED. SCREWS SHALL BE INSTALLED A MINIMUM OF 3/8" FROM STEEL EDGES AND WITH NO LESS THAN 3/4" OC SPACING.

WHEN FASTENING TO STEEL, POWDER ACTUATED FASTENERS SHALL BE INSTALLED A MINIMUM OF 1/2" FROM STEEL EDGES AND WITH NO LESS THAN 1" OC SPACING. WHEN FASTENING TO CONCRETE, POWDER ACTUATED FASTENERS SHALL BE INSTALLED A MINIMUM OF 3" FROM CONCRETE EDGES AND WITH NO LESS THAN 4" OC SPACING.

BUNDLED STUDS AND JOISTS: STUD OR JOIST GROUPS OF (2) OR MORE MEMBERS SHALL BE SHOP WELDED TOGETHER WITH DOUBLE FLARE BEVEL WELDS BY 1" LONG @ 12" OC, BOTH SIDES. STUD OR JOIST GROUPS OF (2) DO NOT REQUIRE WELDING IF THEIR WEBS ARE BACK-TO-BACK AND SCREWED TOGETHER WITH (2) #10 @ 12" OC BUNDLED JOISTS THAT ARE FRAMED IN A BOX BEAM HEADER STYLE WITH A TOP AND BOTTOM TRACK DO NOT REQUIRE WELDING. BOX BEAM FRAMING SHALL HAVE #10 SCREWS @ 24" ON CENTER ALONG EACH OF THE FOUR TRACK FLANGES. BOX BEAM JOIST AND TRACK MEMBERS SHALL BE CONTINUOUS. BOX BEAMS OR HEADERS SHALL BE FRAMED WITH UNPUNCHED JOISTS.

MEMBER CONDITION: ALL STRUCTURAL COLD-FORMED FRAMING MEMBERS MUST BE IN GOOD CONDITION. DAMAGED MEMBERS, MEMBERS WITH CRACKING IN THE STEEL AT THE BEND RADIUS LOCATIONS, AND MEMBERS WITH SIGNIFICANT RED RUSTING OR SCALING OF THE PROTECTIVE COATING ARE UNACCEPTABLE AND MUST BE REPLACED, UNLESS APPROVED BY THE SER. MEMBERS NOT MEETING TOLERANCES LISTED BELOW SHALL BE REPLACED PRIOR TO LOADING.

ERECTION AND TOLERANCES: AXIAL LOAD BEARING COLD-FORMED STEEL FRAMING SHALL BE ERECTED TRUE AND PLUMB PER THE REQUIREMENTS AND WITHIN THE SPECIFIED TOLERANCES LISTED BELOW. FOR PURPOSES OF THIS SECTION, CAMBER IS DEFINED AS THE DEVIATION FROM STRAIGHTNESS OF A MEMBER OR ANY PORTION OF A MEMBER WITH RESPECT TO ITS MAJOR AXIS, AND SWEEP IS DEFINED AS THE DEVIATION FROM STRAIGHTNESS OF A MEMBER OR ANY PORTION OF A MEMBER WITH RESPECT TO ITS MINOR AXIS.

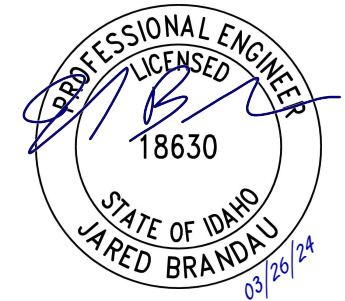
1. FOR JOISTS, TRACK, AND AXIAL LOAD BEARING STUDS, OUT OF PLUMBNESS AND OUT OF STRAIGHTNESS (CAMBER AND SWEEP) SHALL NOT EXCEED 1/1000TH OF THE MEMBER LENGTH (1/8" OVER 10'-0").
2. ERECT FRAMING IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
3. STUDS SHALL SEAT INTO TOP AND BOTTOM TRACKS. THE GAP BETWEEN THE END OF THE STUD AND THE WEB OF THE TRACK SHALL NOT EXCEED 1/16" FOR AXIAL LOAD BEARING STUDS.
4. JOISTS AND END STIFFENERS SHALL BE LOCATED DIRECTLY OVER AXIAL LOAD BEARING STUDS. THE USE OF TRACK AS A LOAD DISTRIBUTION MEMBER IS NOT PERMITTED.

FIELD CUTS AND NOTCHES: FIELD CUTS AND NOTCHES OF ANY KIND ARE NOT ALLOWED IN ANY STRUCTURAL COLD-FORMED STEEL MEMBER WITHOUT PRIOR APPROVAL FROM SER.

TEMPORARY BRACING: REFERENCE "TEMPORARY SHORING, BRACING" IN THE "GENERAL REQUIREMENTS" SECTION ABOVE.

SHOT PINS: SHOTPINS AND OTHER POWDER-ACTUATED FASTENERS SHALL BE LOW VELOCITY TYPE FASTENERS AS MANUFACTURED BY HILTI CORPORATION. AS SPECIFIED IN THE DRAWINGS:

1. SHOT PINS USED TO ATTACH LIGHT GAGE MATERIAL TO STRUCTURAL STEEL SHALL BE HILTI X-U 19 P8 TH (ESR-2269).
2. SHOT PINS USED FOR LIGHT GAGE ATTACHMENT TO CONCRETE SHALL BE HILTI X-U 27 P8 S15 (ESR-2269).
3. SHOT PINS USED FOR LIGHT GAGE ATTACHMENT TO GROUTED CMU SHALL BE HILTI X-U 32 P8 S15 (ESR-2269).

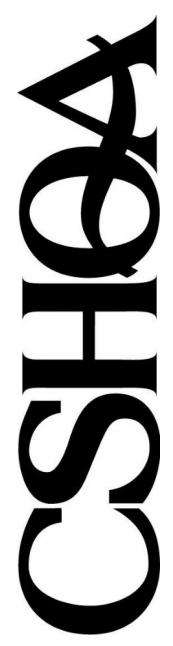


200 BROAD STREET
BOISE, IDAHO
PHONE: 208-343-4635 • FAX: 208-343-1658

THESE DRAWINGS AND SPECIFICATIONS ARE BEING MADE AS A SERVICE TO THE CLIENT AND ARE THE PROPERTY OF THE ARCHITECT/ENGINEER. NO PART OF THESE DRAWINGS OR SPECIFICATIONS SHALL BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT THE WRITTEN CONSENT OF CSH&A OR ITS AFFILIATES.
Copyright © 2022

ITD DIST. 3 BLDG. IMPROVEMENT
8150 West Chinden Boulevard
GARDEN CITY, ID

200 BROAD STREET
BOISE, ID 83702
(208) 343-4635 • FAX (208) 343-1658
<http://www.cshnqa.com>



BUILDING IMPROVEMENT PERMIT SET

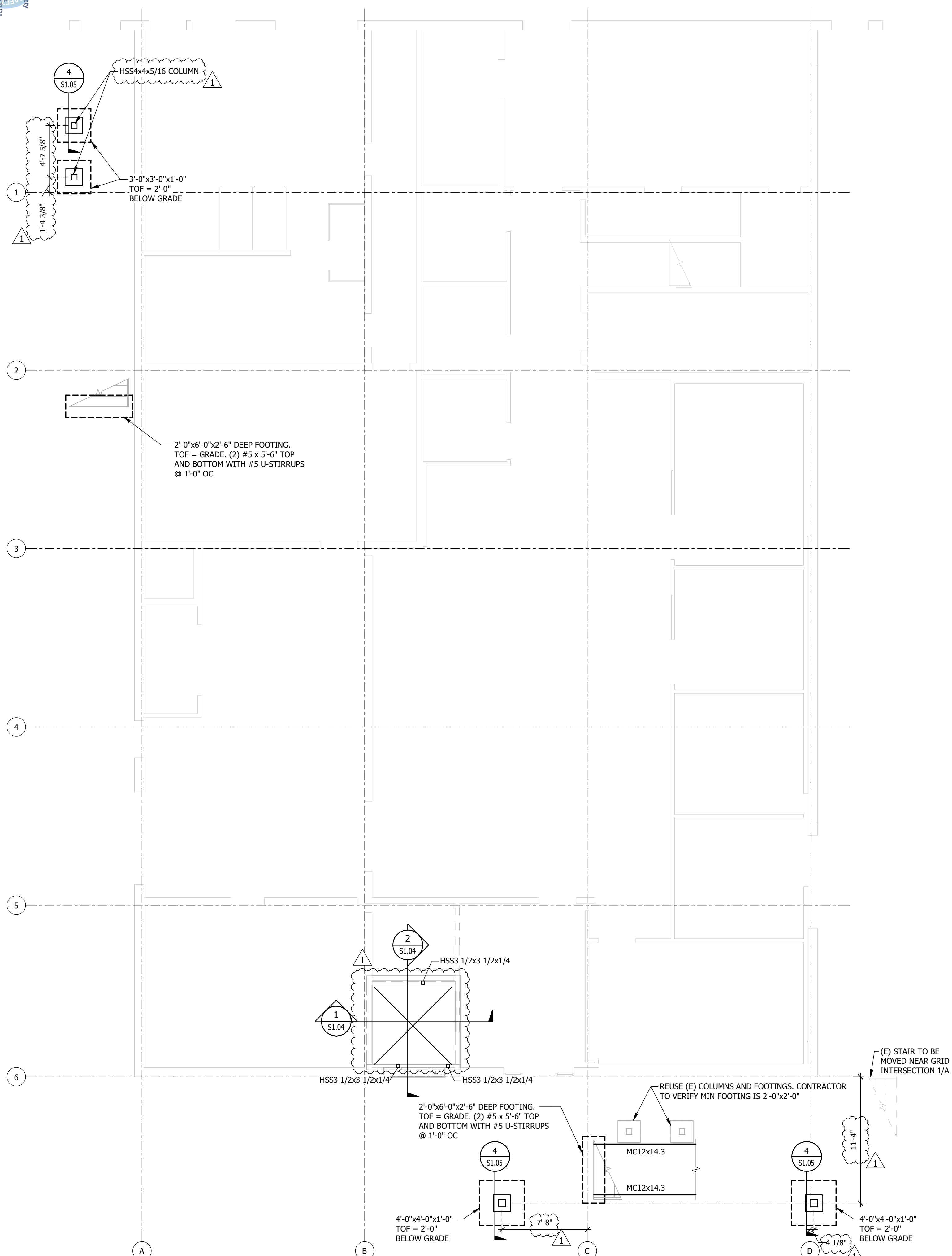
PROJECT 23002	DATE 10-30-23
DRAWN SD	CHECKED JB

REVISED

SHEET TITLE
GENERAL NOTES

SHEET
S0.05
ORIGINAL SHEET SIZE
24" x 36"

Approved
 Statewide Safety
 Division
 3/26/2024 3:18:21 PM



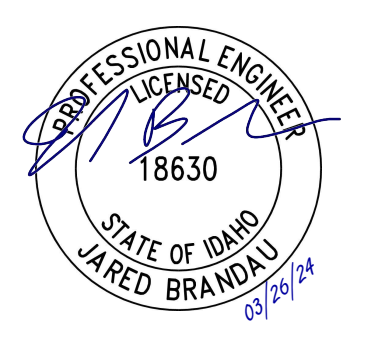
1 FOUNDATION PLAN
 SCALE: 3/16" = 1'-0"
 REF SHEET: S1.04

GENERAL NOTES

- ALL DIMENSIONS AND ELEVATIONS ON THE STRUCTURAL PLANS SHALL BE VERIFIED BY THE CONTRACTOR WITH THE LATEST ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER IMMEDIATELY.
- CONTRACTOR SHALL FIELD VERIFY EXISTING STRUCTURAL CONDITIONS AND PROPOSED ALTERATIONS, CONTRACTOR SHALL CONTACT ARCHITECT AND STRUCTURAL ENGINEER BEFORE PERFORMING ALTERATION WORK.
- FOR GENERAL NOTES: S0.00 SERIES SHEETS
 CONCRETE DETAILS: S1.05 SHEET
 ROOF DETAILS: S1.06-S1.08 SHEETS
 STEEL DETAILS: S1.09 SHEET

FOUNDATION NOTES

- SEE ARCH FOR UNDERSLAB AND FOOTING REQUIREMENTS.
- FINISH FLOOR REFERENCE ELEVATION (FFE) = 100'-0" TYPICAL UNO



200 BROAD STREET
 BOISE, IDAHO
 PHONE: 208-343-4635 • FAX: 208-343-1658

THESE DRAWINGS AND SPECIFICATIONS ARE SOLELY THE PROPERTY OF THE ARCHITECT/ENGINEER. NO PART OF THESE DRAWINGS AND SPECIFICATIONS SHALL BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN CONSENT OF CSHQA OR ITS AFFILIATES.
 Copyright © 2022

ITD DIST. 3 BLDG. IMPROVEMENT
8150 West Chinden Boulevard GARDEN CITY, ID

CSHQA

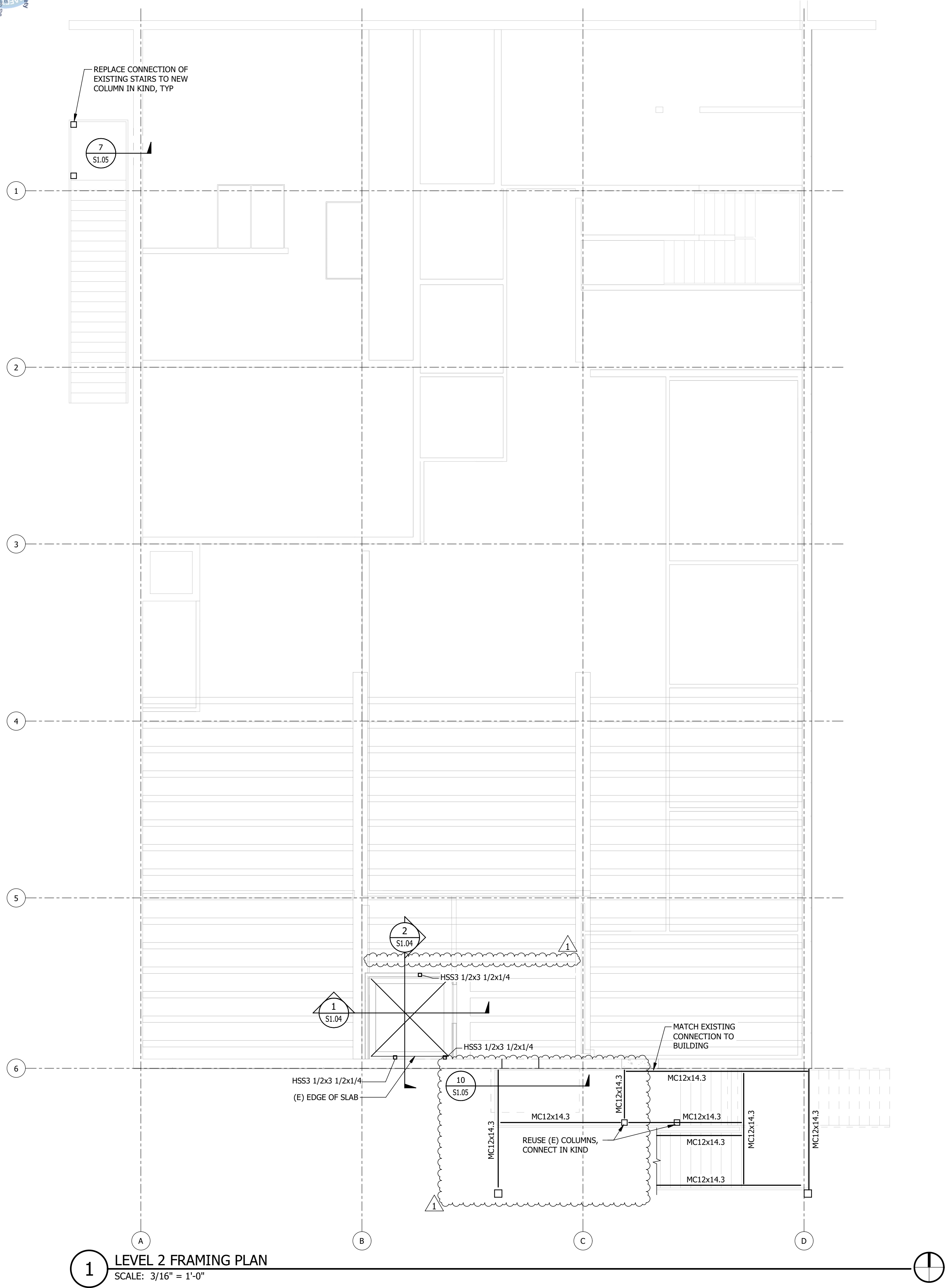
200 BROAD STREET
 BOISE, ID 83702
 (208) 343-4635 • FAX (208) 343-1658
<http://www.cshqa.com>

BUILDING IMPROVEMENT PERMIT SET

PROJECT 23002	DATE 10-30-23
DRAWN SD	CHECKED JB
REVISED 1 E_BACK CHECK 1	03/27/2024

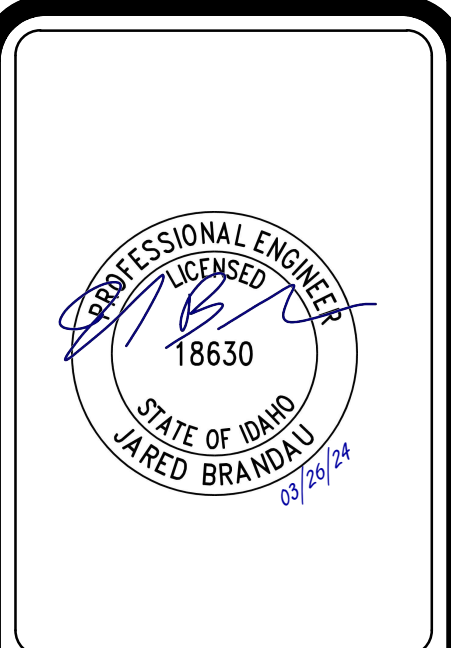
SHEET TITLE
FOUNDATION PLAN

SHEET
S1.01
 ORIGINAL SHEET SIZE
 24" x 36"



1 LEVEL 2 FRAMING PLAN
 SCALE: 3/16" = 1'-0"

- ### GENERAL NOTES
- ALL DIMENSIONS AND ELEVATIONS ON THE STRUCTURAL PLANS SHALL BE VERIFIED BY THE CONTRACTOR WITH THE LATEST ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER IMMEDIATELY.
 - CONTRACTOR SHALL FIELD VERIFY EXISTING STRUCTURAL CONDITIONS. IF ANY DISCREPANCY OCCURS BETWEEN EXISTING CONDITIONS AND PROPOSED ALTERATIONS, CONTRACTOR SHALL CONTACT ARCHITECT AND STRUCTURAL ENGINEER BEFORE PERFORMING ALTERATION WORK.
 - FOR GENERAL NOTES: S0.00 SERIES SHEETS
 CONCRETE DETAILS: S1.05 SHEET
 ROOF DETAILS: S1.06-S1.08 SHEETS
 STEEL DETAILS: S1.09 SHEET



200 BROAD STREET
 BOISE, IDAHO
 PHONE: 208-343-4635 • FAX: 208-343-1658

ITD DIST. 3 BLDG. IMPROVEMENT
8150 West Chinden Boulevard GARDEN CITY, ID

CSHOA

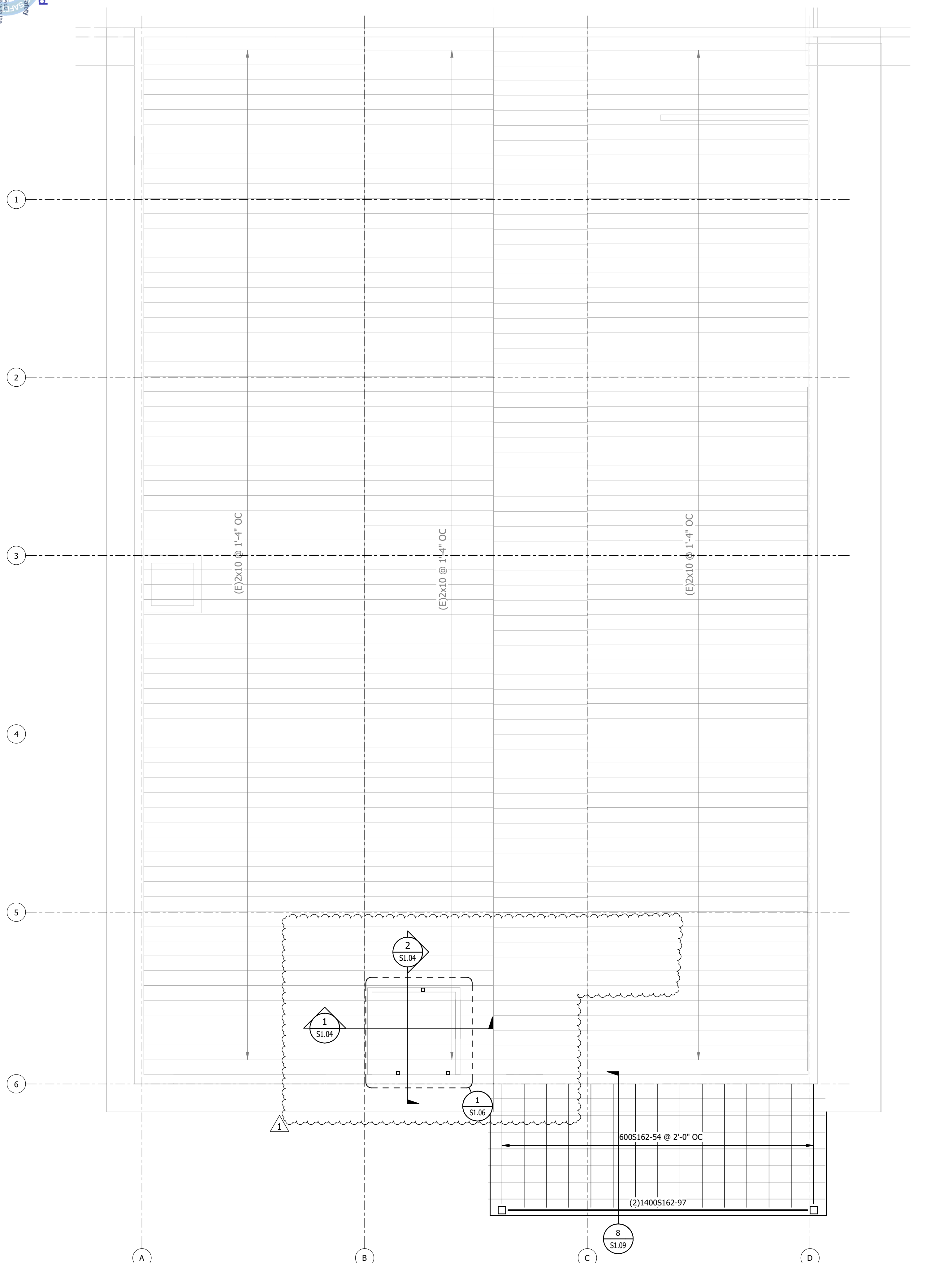
BUILDING IMPROVEMENT PERMIT SET

PROJECT 23002	DATE 10-30-23
DRAWN SD	CHECKED JB
REVISED 1 E_BACK CHECK 1	03/27/2024

SHEET **LEVEL 2 FRAMING PLAN**

SHEET **S1.02**
 ORIGINAL SHEET SIZE 24" x 36"

Approved
 Statewide Safety
 Division
 3/26/2024 3:18:22 PM



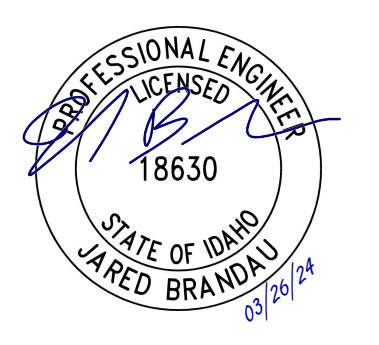
1 ROOF FRAMING PLAN
 SCALE: 3/16" = 1'-0"

GENERAL NOTES

- ALL DIMENSIONS AND ELEVATIONS ON THE STRUCTURAL PLANS SHALL BE VERIFIED BY THE CONTRACTOR WITH THE LATEST ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER IMMEDIATELY.
- CONTRACTOR SHALL FIELD VERIFY EXISTING STRUCTURAL CONDITIONS AND PROPOSED ALTERATIONS, CONTRACTOR SHALL CONTACT ARCHITECT AND STRUCTURAL ENGINEER BEFORE PERFORMING ALTERATION WORK.
- FOR GENERAL NOTES: S0.00 SERIES SHEETS
 CONCRETE DETAILS: S1.05 SHEET
 ROOF DETAILS: S1.06-S1.08 SHEETS
 STEEL DETAILS: S1.09 SHEET

WOOD ROOF FRAMING NOTES

- TYPICAL ROOF FRAMING CONSISTS OF 5/8" APA RATED SHEATHING (INDEX 40/20), LAID FACE GRAIN PERPENDICULAR OVER ROOF JOISTS. STAGGER JOISTS. SEE 3/S1.07
- NAIL ROOF SHEATHING TO FRAMING WITH 8d NAILS (0.131" DIA x 2.5" LONG) @ 6" OC AT ALL PANEL EDGES AND 8d NAILS @ 12" OC AT INTERMEDIATE FRAMING MEMBERS. (UNBLOCKED). SEE 3/S1.07
- ALL FLOOR HEADERS NOT SHOWN ON PLAN SHALL BE PER HEADER SCHEDULE AND DETAIL, SEE 3/S6.61. FOR HEADER SCHEDULE AND 6/S5.61 FOR BUILT-UP HEADER DETAIL.



200 BROAD STREET
 BOISE, IDAHO
 PHONE: 208-343-4635 • FAX: 208-343-1658

THESE DRAWINGS AND SPECIFICATIONS ARE SOLELY THE PROPERTY OF THE ARCHITECT/ENGINEER. NEITHER THE ARCHITECT/ENGINEER NOR THE ARCHITECT/ENGINEER SHALL BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS IN THESE DRAWINGS AND SPECIFICATIONS. THE ARCHITECT/ENGINEER SHALL BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS IN THESE DRAWINGS AND SPECIFICATIONS. THE ARCHITECT/ENGINEER SHALL BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS IN THESE DRAWINGS AND SPECIFICATIONS.

ITD DIST. 3 BLDG. IMPROVEMENT
8150 West Chinden Boulevard GARDEN CITY, ID

CSHOA

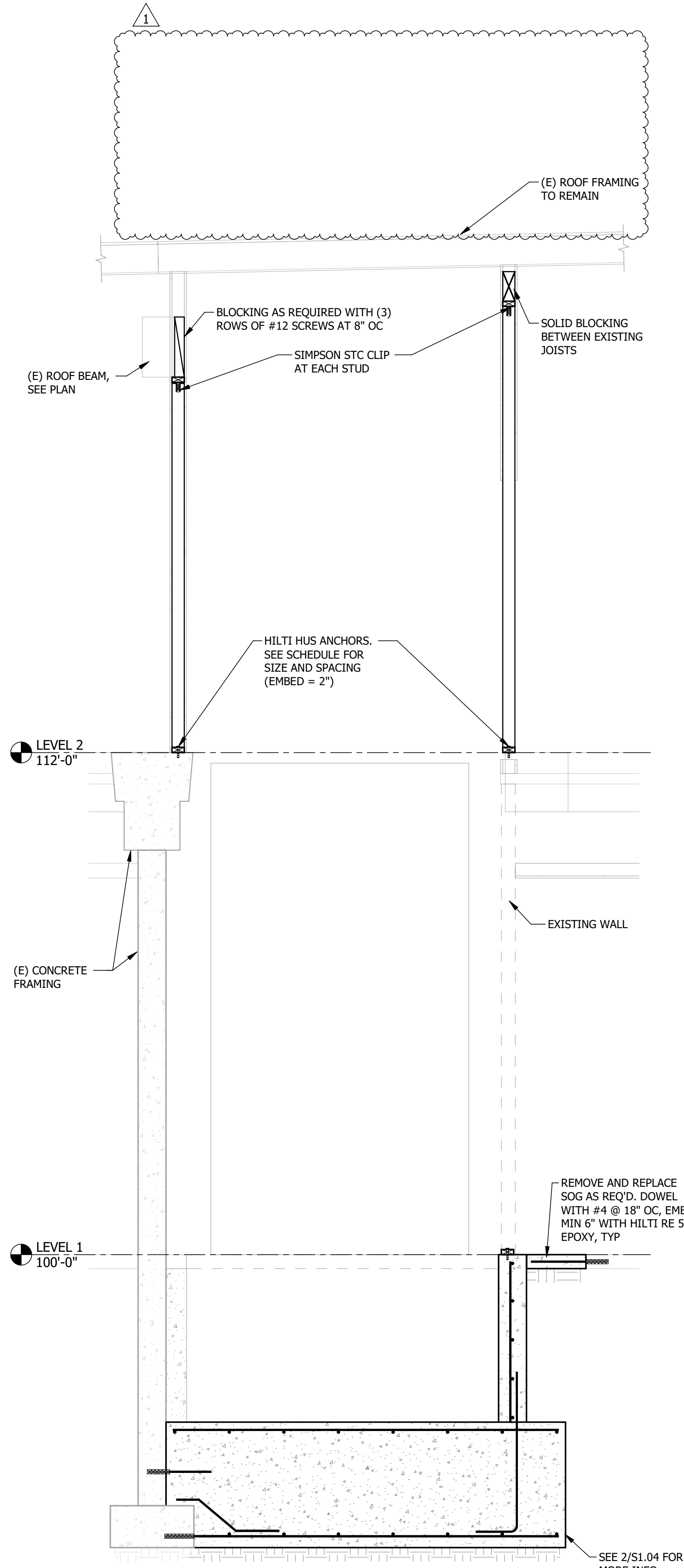
200 BROAD STREET
 BOISE, ID 83702
 (208) 343-4635 • FAX (208) 343-1658
 http://www.cshoa.com

BUILDING IMPROVEMENT PERMIT SET

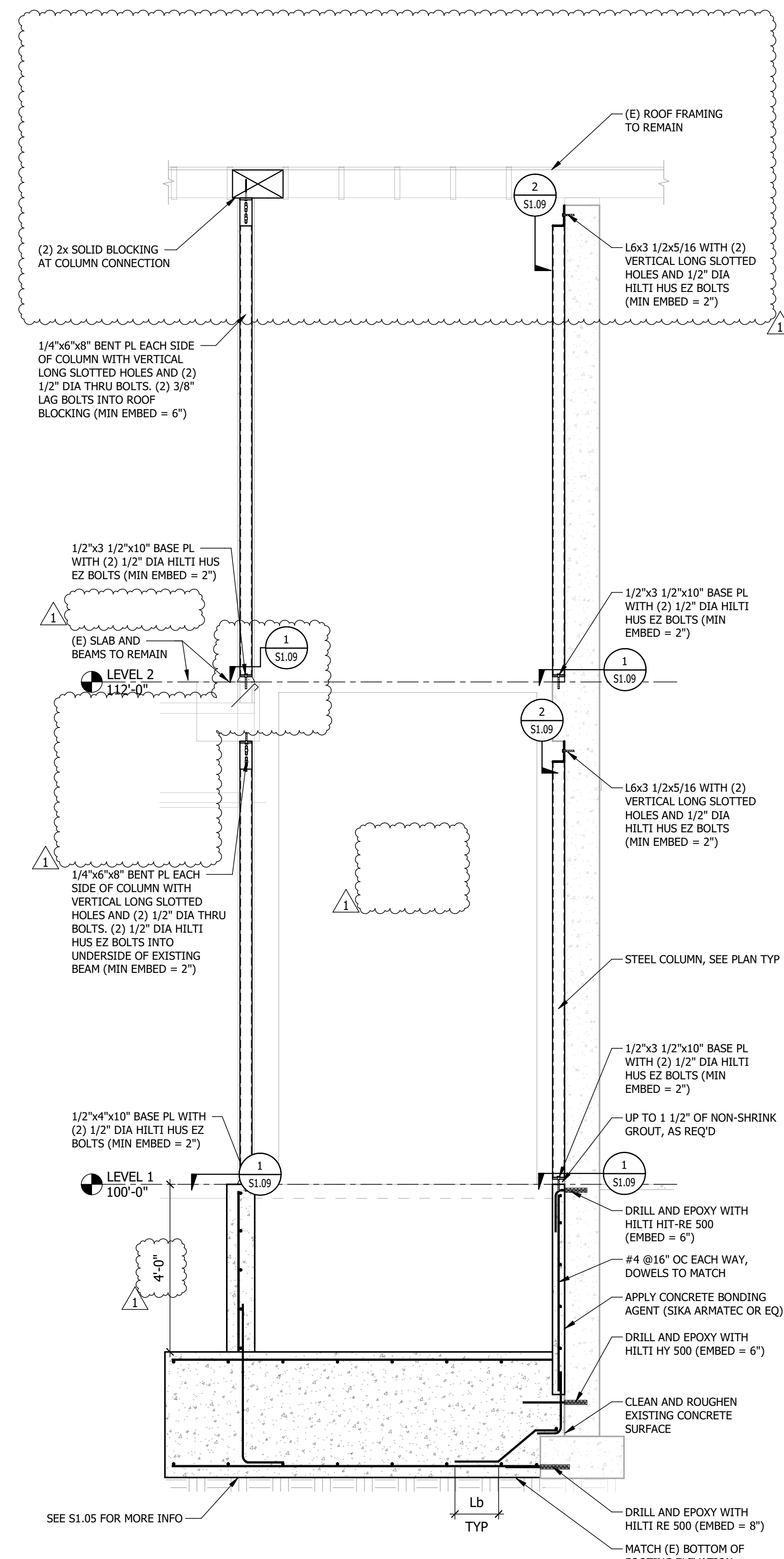
PROJECT 23002	DATE 10-30-23
DRAWN SD	CHECKED JB
REVISED 1 E_BACK CHECK 1 03/27/2024	

ROOF FRAMING PLAN

S1.03
 ORIGINAL SHEET SIZE
 24" x 36"

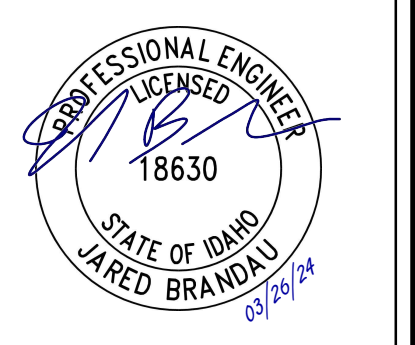


1 E/W SECTION
 SCALE: NTS
 REF SHEET: S1.01



2 N/S SECTION
 SCALE: NTS
 REF SHEET: S1.01

- GENERAL NOTES**
- ALL DIMENSIONS AND ELEVATIONS ON THE STRUCTURAL PLANS SHALL BE VERIFIED BY THE CONTRACTOR WITH THE LATEST ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER IMMEDIATELY.
 - CONTRACTOR SHALL FIELD VERIFY EXISTING STRUCTURAL CONDITIONS. IF ANY DISCREPANCY OCCURS BETWEEN EXISTING CONDITIONS AND PROPOSED ALTERATIONS, CONTRACTOR SHALL CONTACT ARCHITECT AND STRUCTURAL ENGINEER BEFORE PERFORMING ALTERATION WORK.
 - FOR GENERAL NOTES: S0.00 SERIES SHEETS
 CONCRETE DETAILS: S1.05 SHEET
 ROOF DETAILS: S1.06-S1.08 SHEETS
 STEEL DETAILS: S1.09 SHEET



200 BROAD STREET
 BOISE, IDAHO
 PHONE: 208-343-4635 • FAX: 208-343-1858
 THESE DRAWINGS AND SPECIFICATIONS ARE TO REMAIN THE PROPERTY OF THE ARCHITECT/ENGINEER UNLESS OTHERWISE NOTED. THESE DRAWINGS AND SPECIFICATIONS SHALL NOT BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN CONSENT OF CSHQA OR ITS AFFILIATES.
 Copyright © 2022

ITD DIST. 3 BLDG. IMPROVEMENT
8150 West Chinden Boulevard
GARDEN CITY, ID
 200 BROAD STREET
 BOISE, ID 83702
 (208) 343-4635 • FAX (208) 343-1858
 http://www.cshqa.com

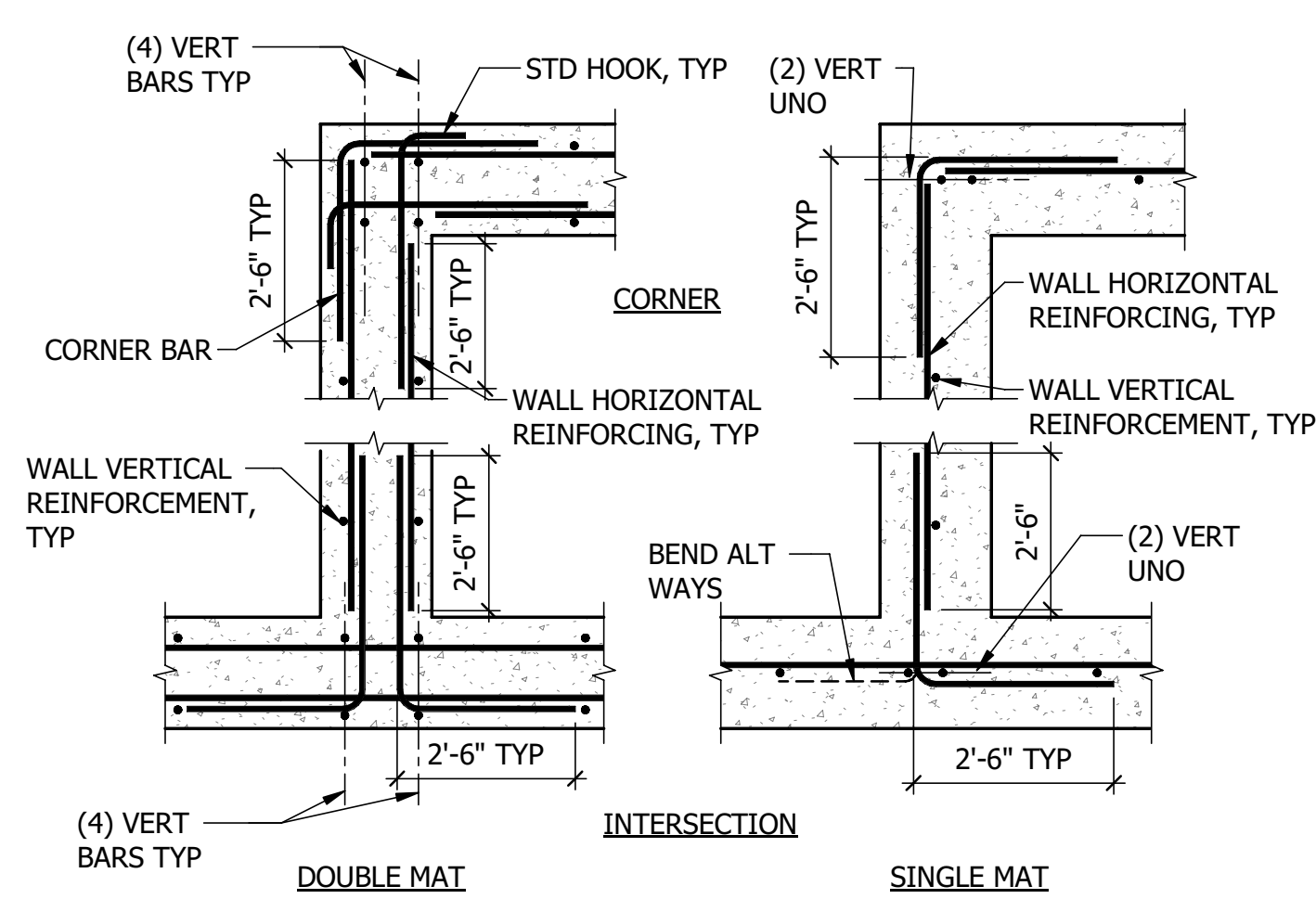
CSHQA

BUILDING IMPROVEMENT PERMIT SET

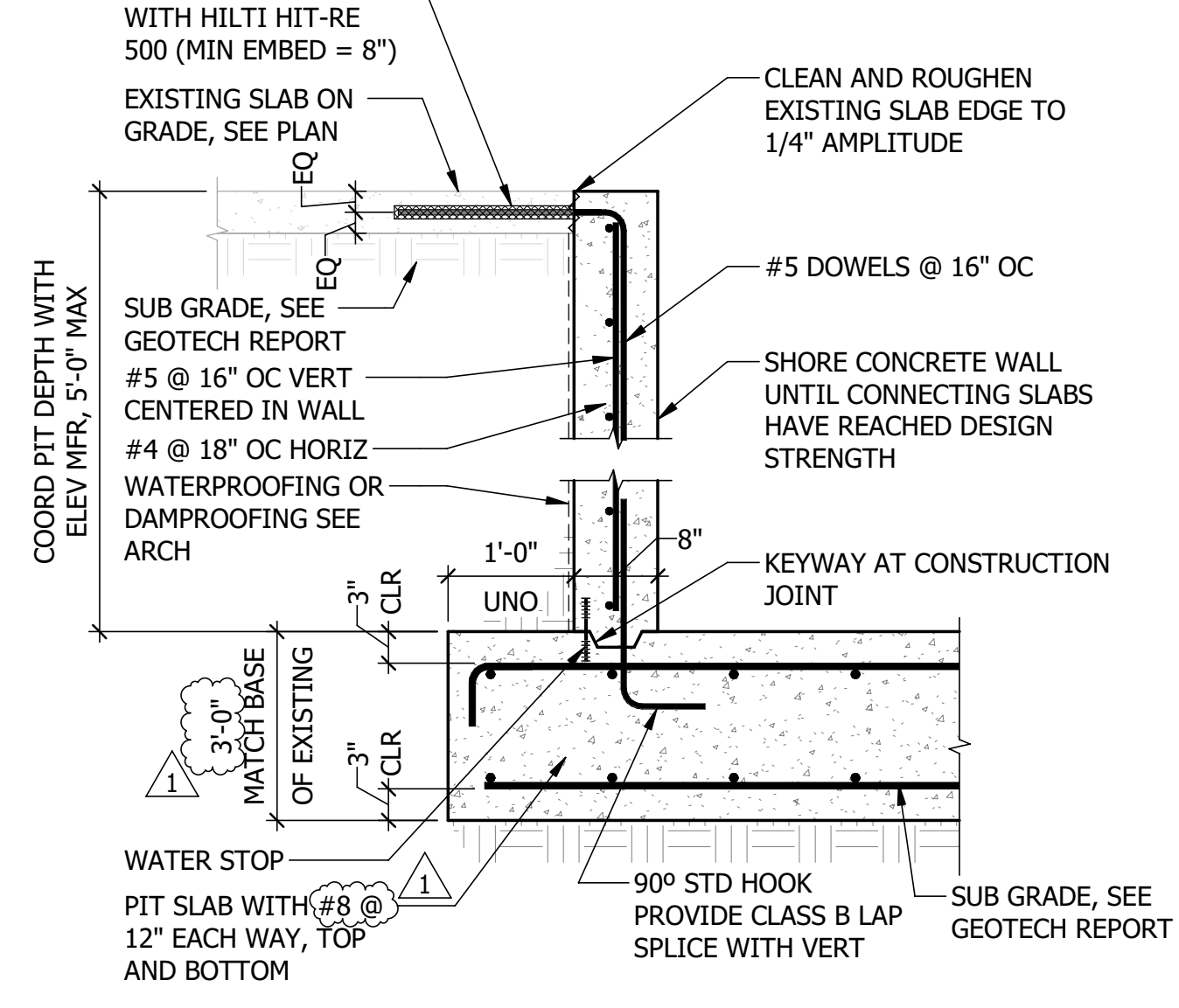
PROJECT 23002	DATE 10-30-23
DRAWN SD	CHECKED JB
REVISED 1 E_BACK CHECK 1	03/27/2024

SHEET TITLE
SECTIONS

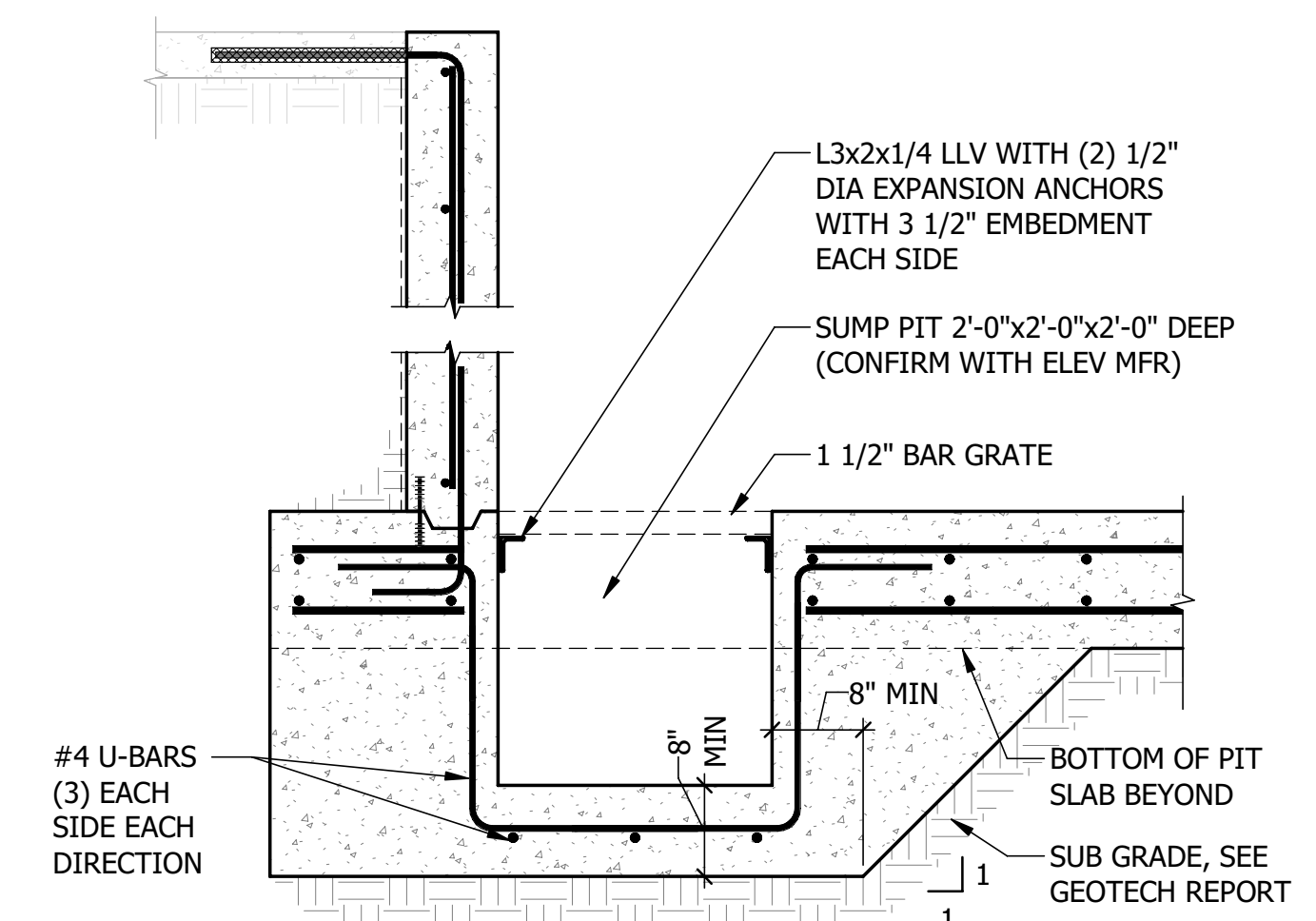
SHEET
S1.04
 ORIGINAL SHEET SIZE
 24" x 36"



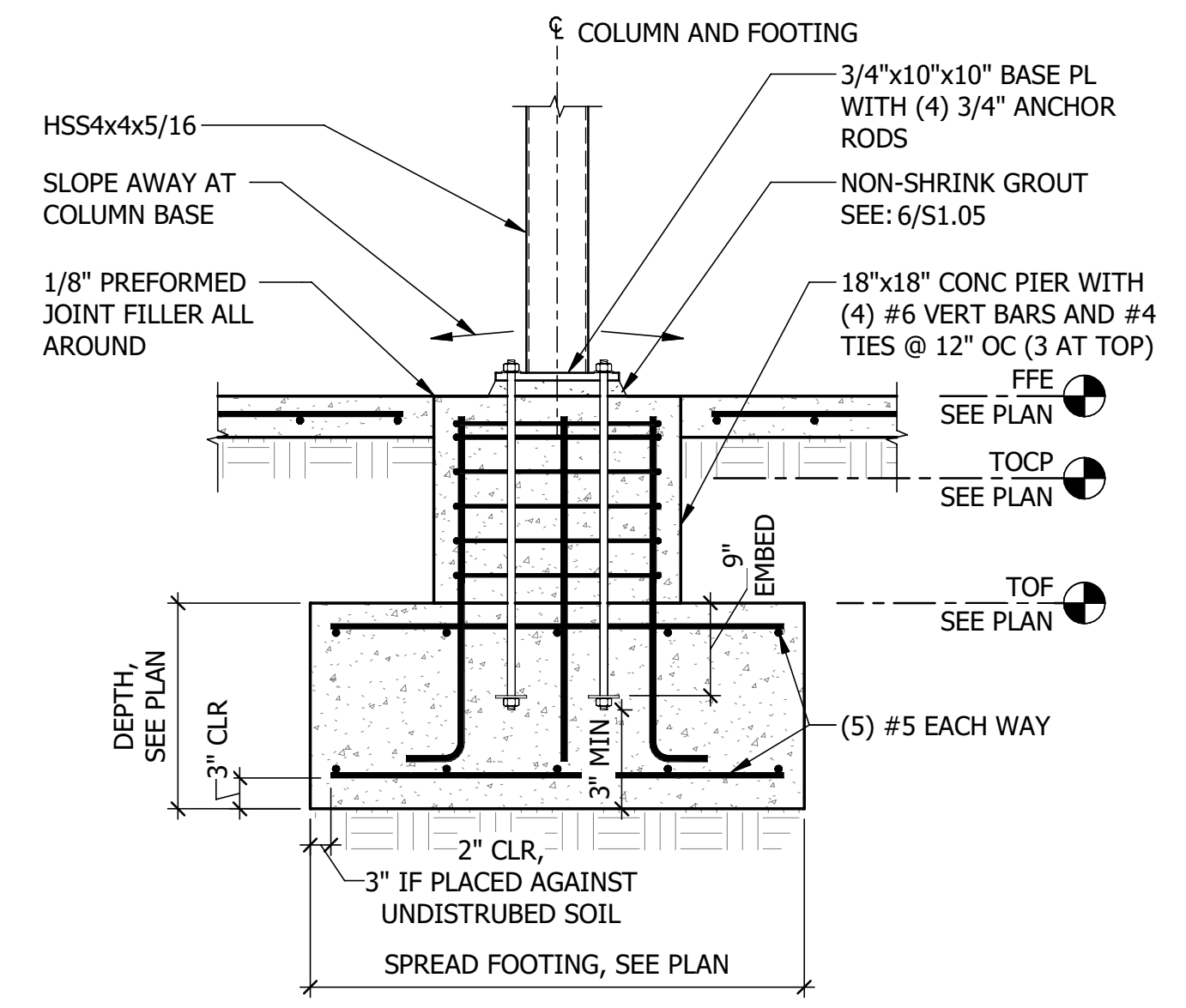
1 REINFORCING AT WALL INTERSECTIONS
 SCALE: NTS



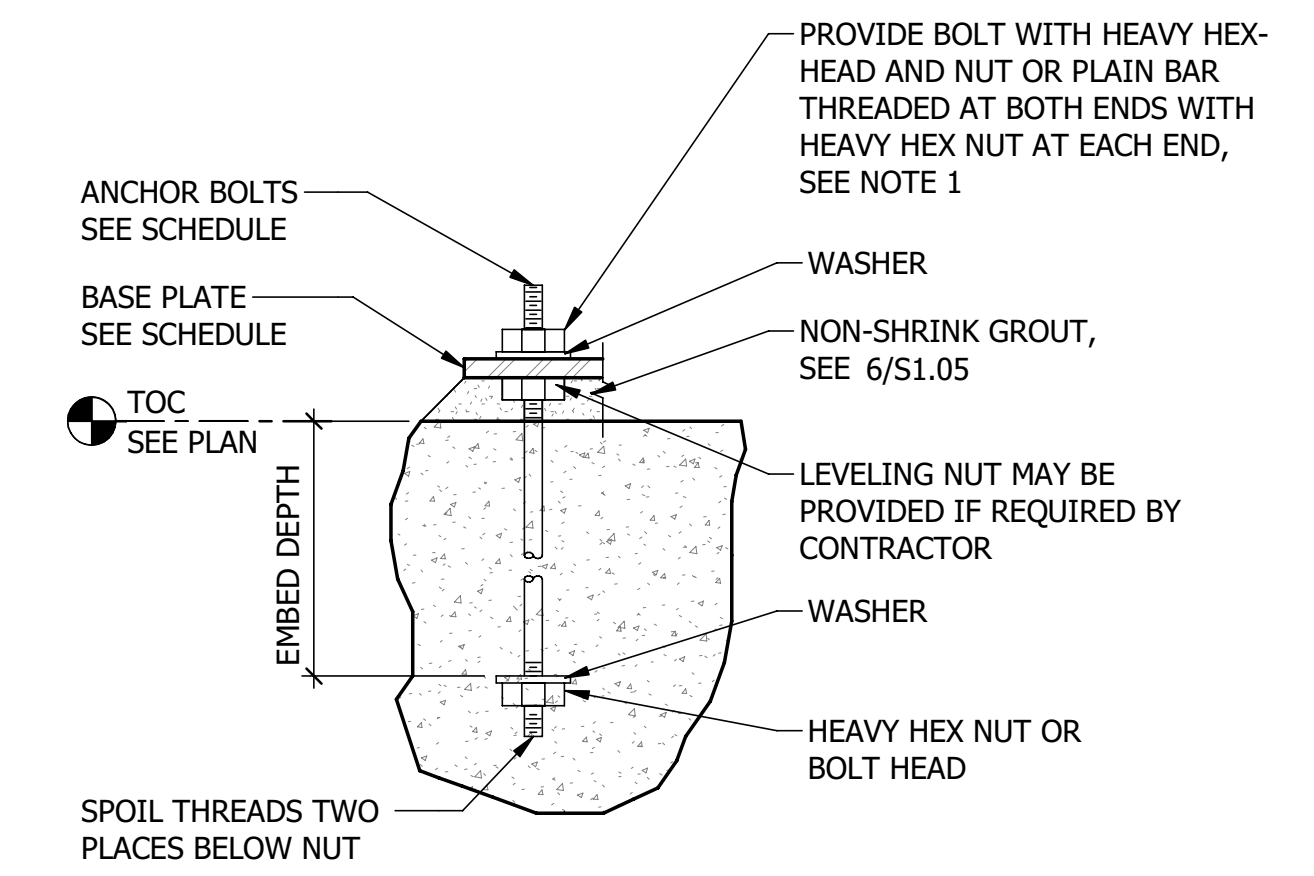
2 ELEVATOR PIT
 SCALE: NTS



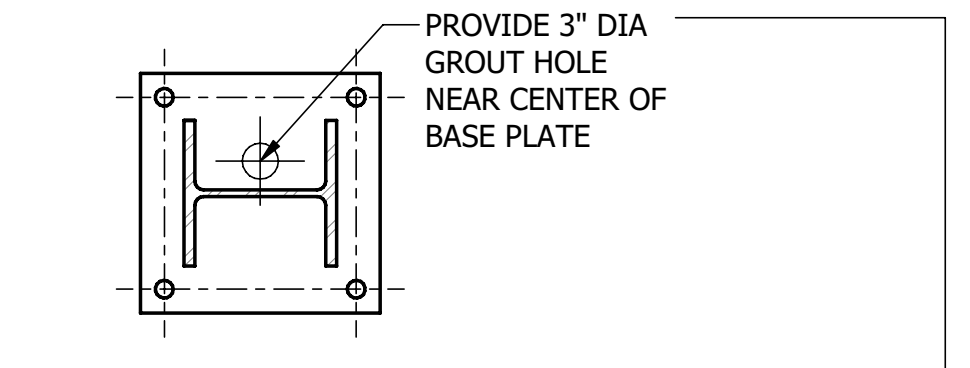
3 ELEVATOR SUMP PIT
 SCALE: NTS



4 COLUMN FOOTING WITH PIER
 SCALE: NTS
 REF SHEET: S1.01

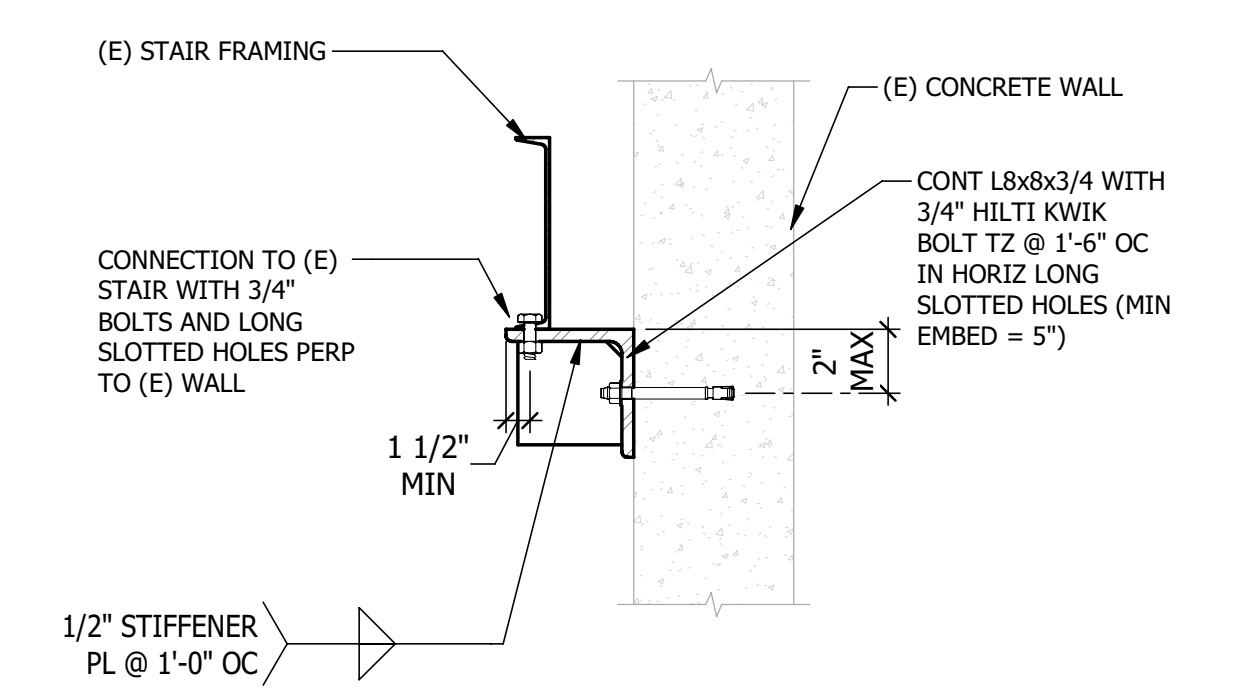


5 HEADED ANCHOR BOLT
 SCALE: NTS

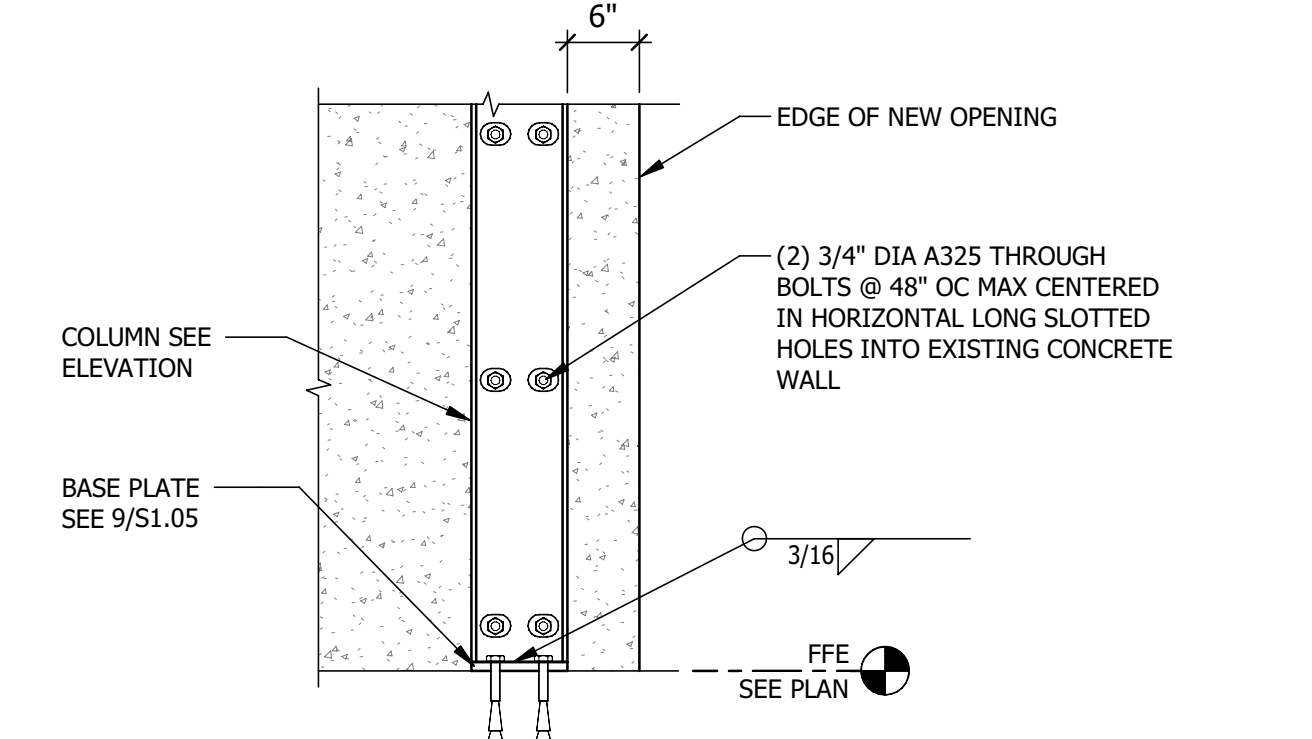


NON-SHRINK GROUT SCHEDULE	
BASE PLATE MINIMUM WIDTH	MINIMUM NON-SHRINK GROUT THICKNESS (SEE NOTE 1)
UP TO 16"	1 1/2"
17" TO 23"	2"
24" TO 35"	2 1/2"
36" AND OVER	3"

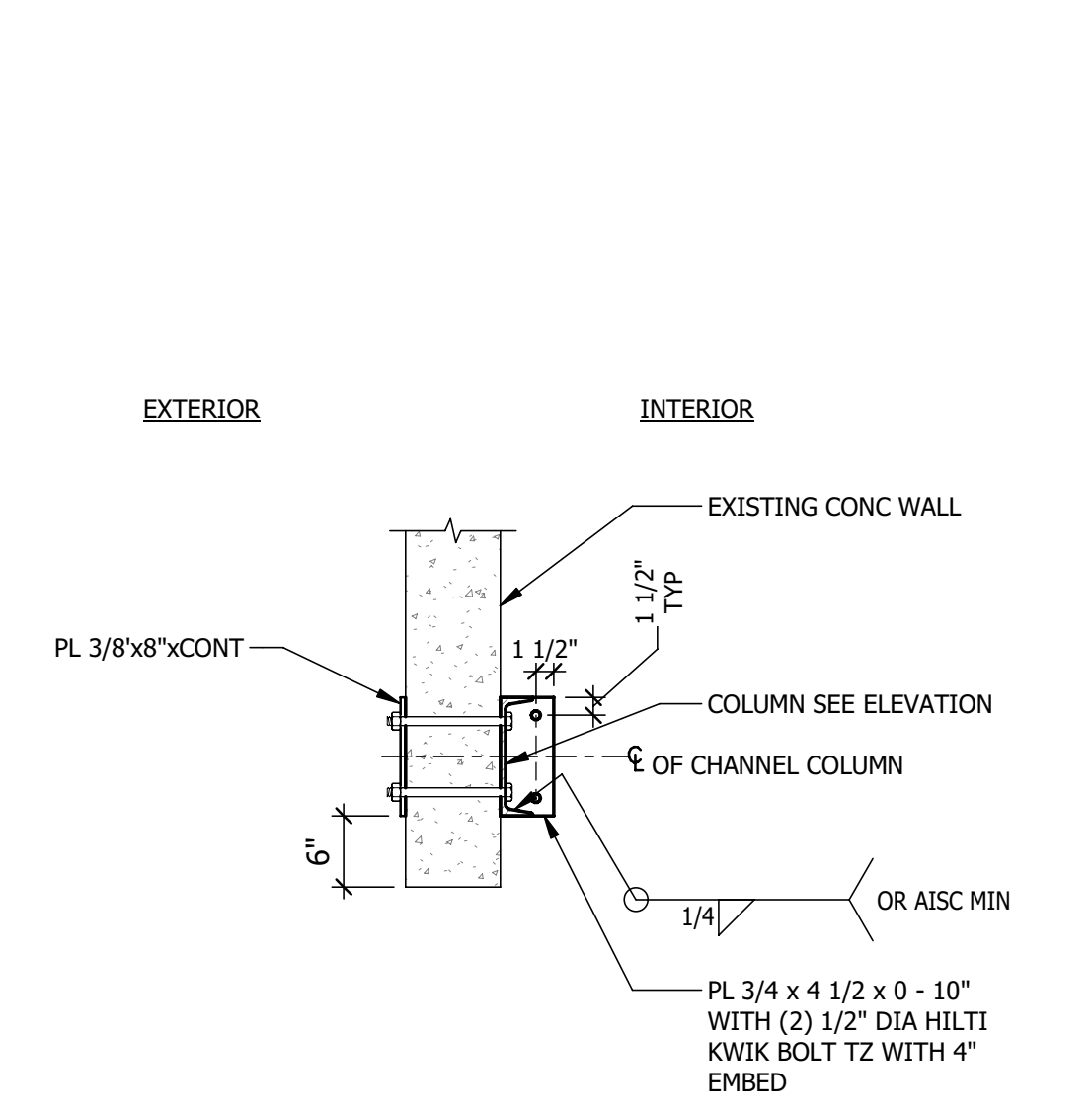
6 NON SHRINK GROUT AT BASE PLATE
 SCALE: NTS



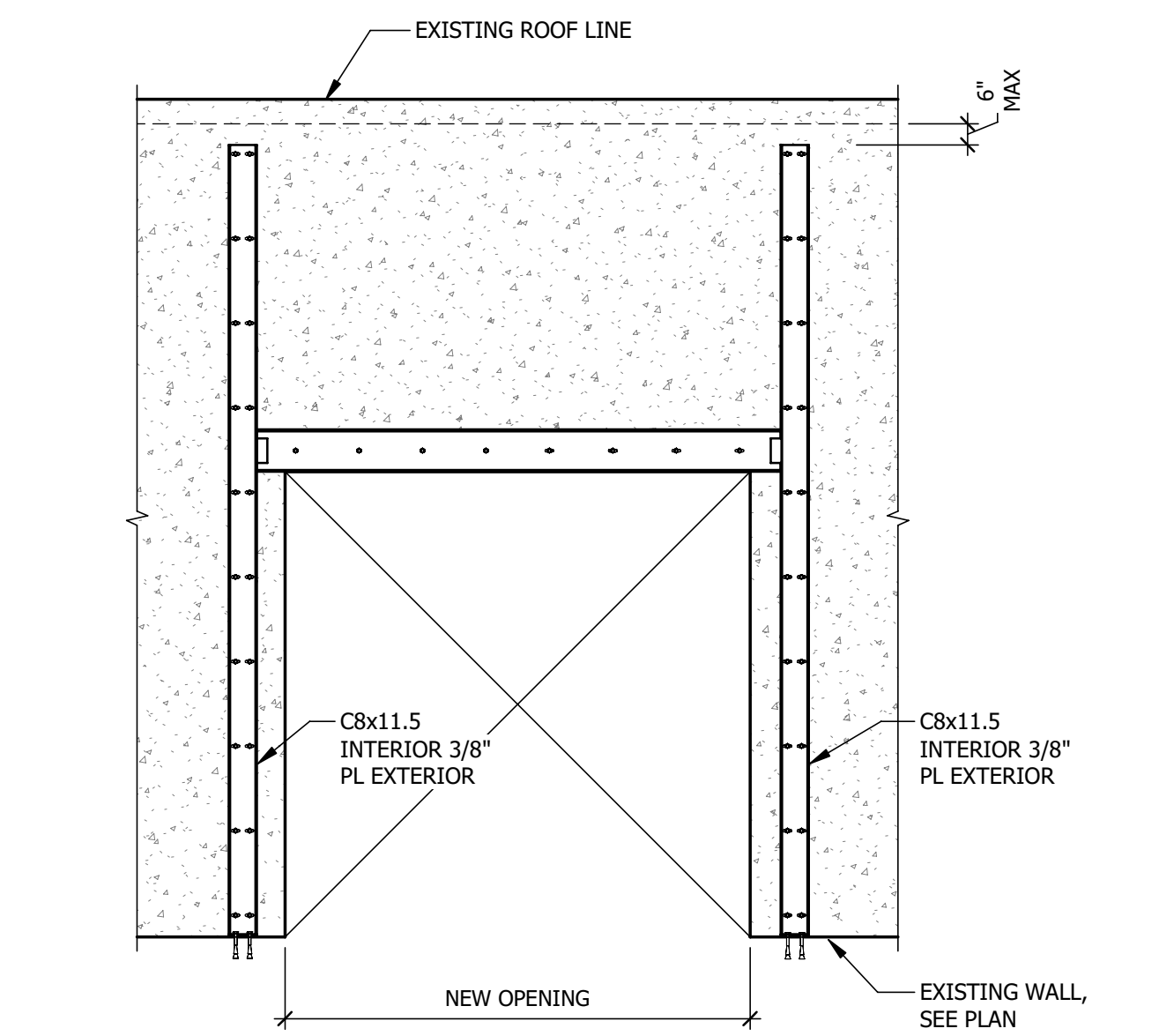
7 EXISTING STAIR TO EXISTING WALL
 SCALE: NTS
 REF SHEET: S1.02



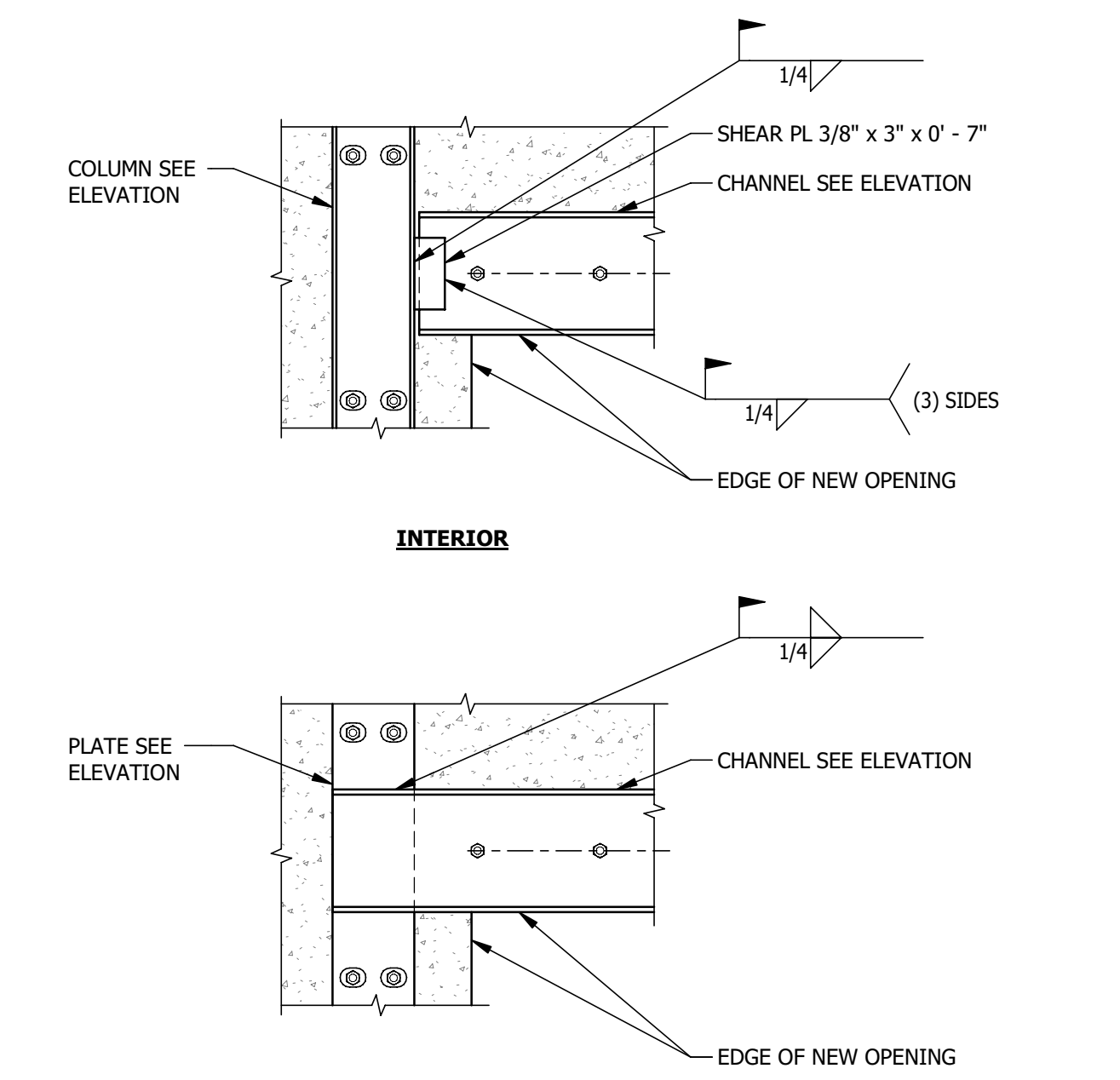
8 COLUMN AT NEW OPENING
 SCALE: NTS



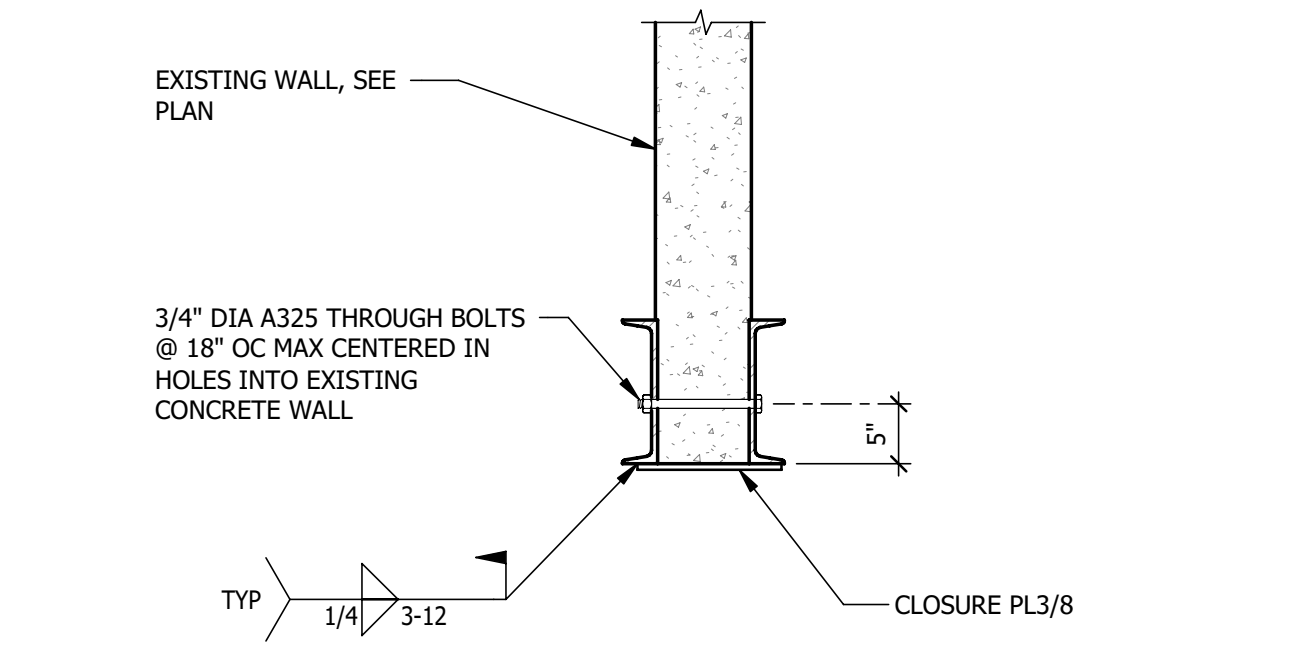
9 BASE PLATE SECTION
 SCALE: NTS



10 NEW OPENING IN EXISTING CONCRETE WALL
 SCALE: NTS
 REF SHEET: S1.02



11 HEADER AT NEW OPENING
 SCALE: NTS



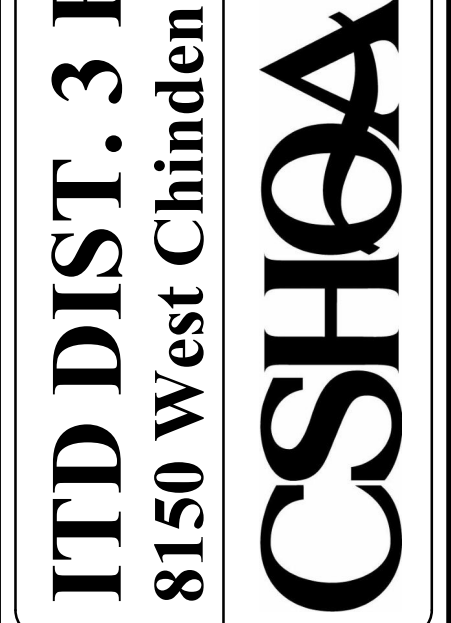
12 JAMB AND HEAD DETAIL
 SCALE: NTS



200 BROAD STREET
 BOISE, IDAHO
 PHONE: 208-343-4635 • FAX: 208-343-1858

ITD DIST. 3 BLDG. IMPROVEMENT
8150 West Chinden Boulevard
GARDEN CITY, ID

200 BROAD STREET
 BOISE, ID 83702
 (208) 343-4635 • FAX (208) 343-1858
<http://www.cshqa.com>

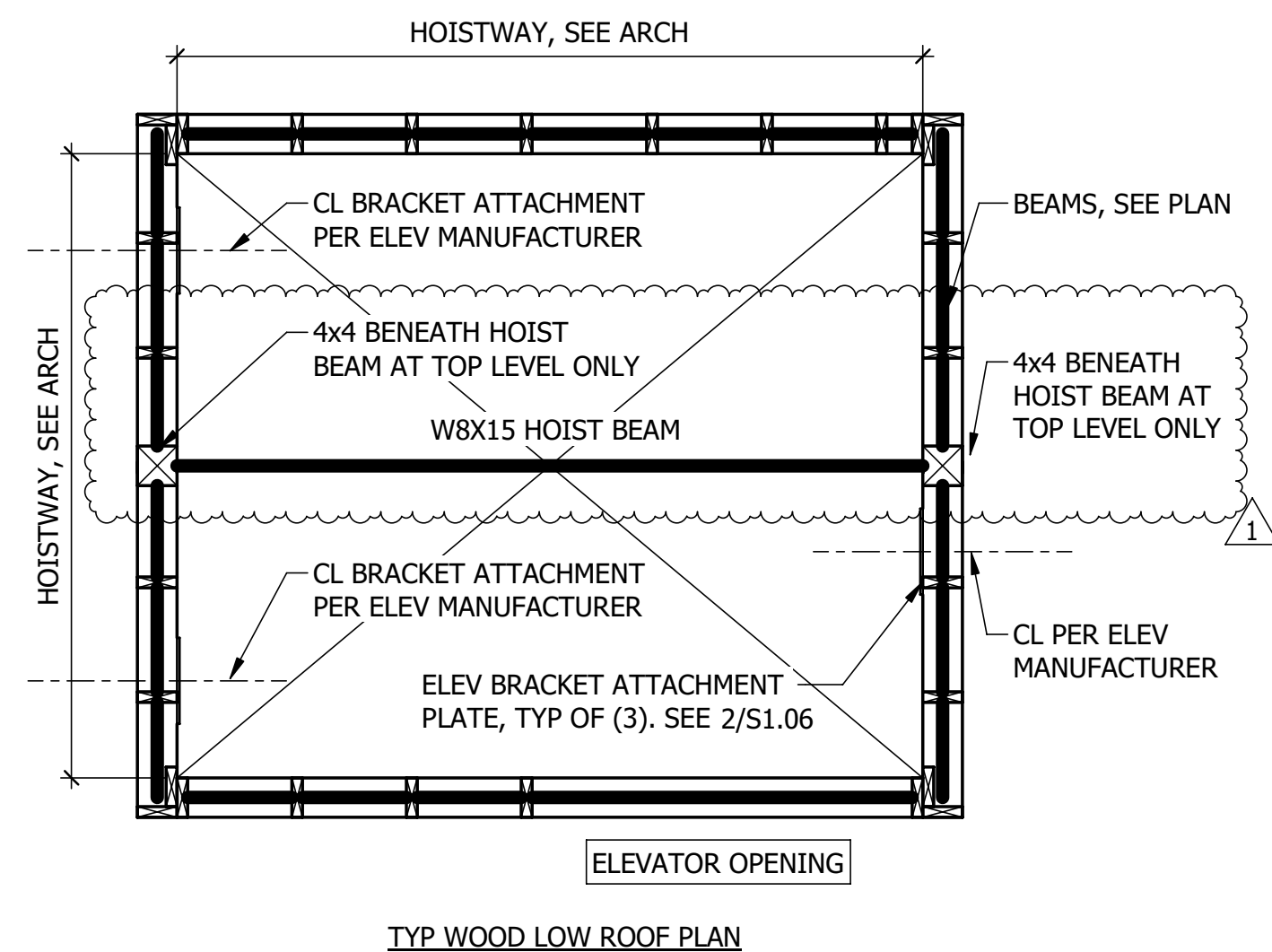


BUILDING IMPROVEMENT PERMIT SET

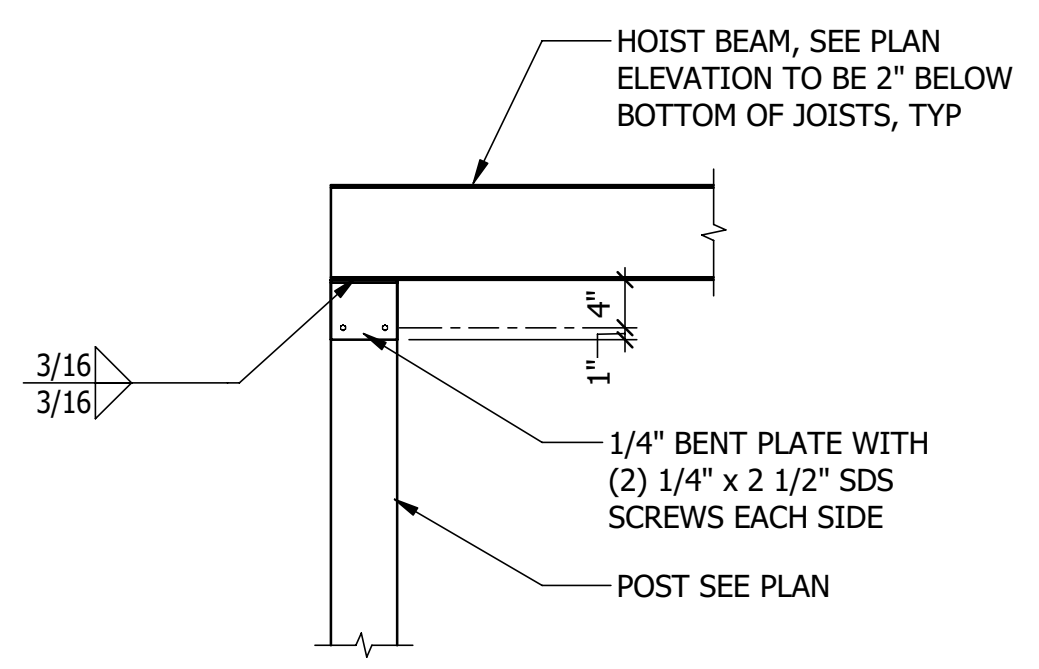
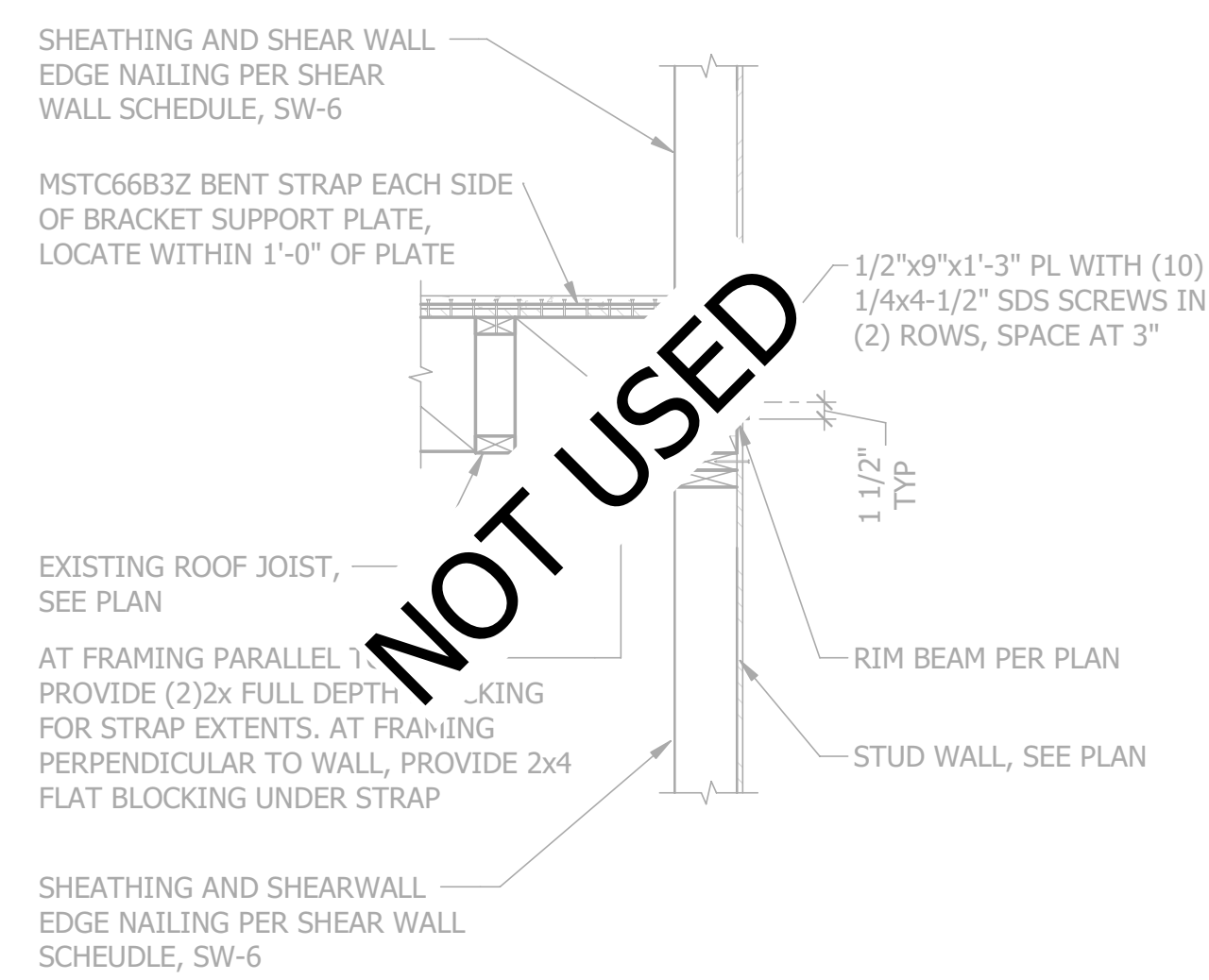
PROJECT 23002	DATE 10-30-23
DRAWN SD	CHECKED JB
REVISED 1_E_BACK CHECK 1	03/27/2024

SHEET TITLE
CONCRETE DETAILS

SHEET
S1.05
 ORIGINAL SHEET SIZE
 24" x 36"



- NOTES:
 1. SEE ARCHITECTURAL DRAWINGS AND ELEVATOR MANUFACTURER DRAWINGS FOR HOISTWAY DIMENSIONS AND WALL ASSEMBLIES
 2. GUIDERAIL SUPPORT BRACKETS AND FASTENING REQUIREMENTS BY ELEVATOR MANUFACTURER. ALL CONNECTIONS ARE PRELIMINARY AND TO BE VERIFIED WITH ELEVATOR MANUFACTURER LOADING AND SPACING REQUIREMENTS

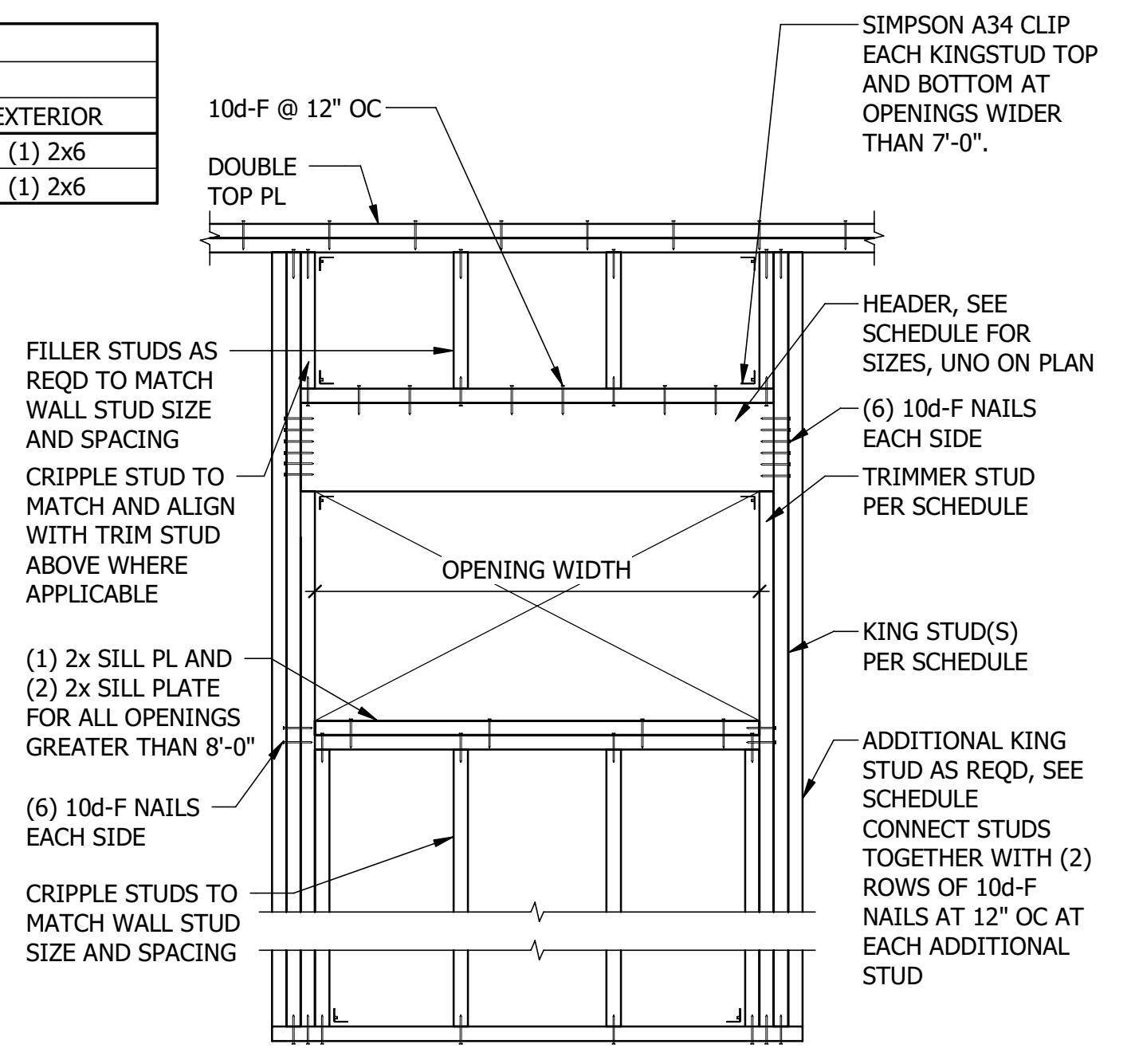


1 TYPICAL ELEVATOR SHAFT FRAMING
 SCALE: NTS
 REF SHEET: S1.03

2 ELEVATOR BRACKET SUPPORT AT WOOD ROOF
 SCALE: NTS

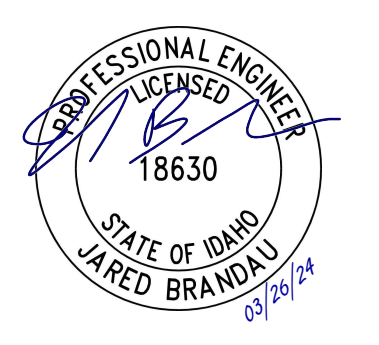
3 HOIST BEAM AT ELEVATOR
 SCALE: NTS

WOOD HEADER SCHEDULE					
MARK	OPENING WIDTH	HEADER (UNO ON PLAN)	KING STUDS		
			TRIMMER STUDS	INTERIOR	EXTERIOR
H01	3'-8" MAX	(2) 2x6	(1) 2x6 OR (1) 2x4	(1) 2x6 OR (1) 2x4	(1) 2x6
H02	3'-8" - 6'-0" MAX	(2) 2x8	(1) 2x6 OR (2) 2x4	(1) 2x6 OR (2) 2x4	(1) 2x6



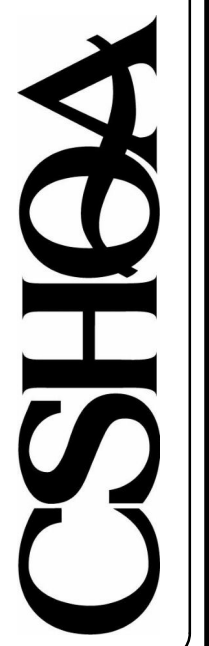
- NOTES:
 1. AT INTERIOR NON BEARING WALLS PROVIDE (2) 2x6 HEADER MINIMUM.
 2. TRIMMER STUDS/POSTS IN SCHEDULE TYP UNO ON PLANS. PROVIDE MATCHING STUD PACKS TO FOUNDATION LEVEL, TYPICAL.
 3. FOR MULTIPLE STUDS OCCURRING AS POSTS PER TABLES ABOVE, MATCH WOOD SPECIES AND GRADE OF THE WALL THE POSTS OCCUR IN. SEE WALL FRAMING SCHEDULE.
 4. ADD (1) ADDITIONAL KINGSTUD TO HEADERS SUPPORTING 3 STORIES OR MORE.

4 HEADER SCHEDULE
 SCALE: NTS



200 BROAD STREET
 BOISE, IDAHO
 PHONE: 208-343-4635 • FAX: 208-343-1858
 THESE DRAWINGS AND SPECIFICATIONS ARE SOLELY THE PROPERTY OF THE ARCHITECT/ENGINEER UNLESS OTHERWISE NOTED. THESE DRAWINGS AND SPECIFICATIONS SHALL NOT BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT THE WRITTEN CONSENT OF CSHQA OR ITS AFFILIATES.
 Copyright © 2022

ITD DIST. 3 BLDG. IMPROVEMENT
8150 West Chinden Boulevard
GARDEN CITY, ID
 200 BROAD STREET
 BOISE, ID 83702
 (208) 343-4635 • FAX (208) 343-1858
<http://www.cshqa.com>



BUILDING IMPROVEMENT PERMIT SET

PROJECT 23002	DATE 10-30-23
DRAWN SD	CHECKED JB

REVISED
 1_E_BACK CHECK 1 03/27/2024

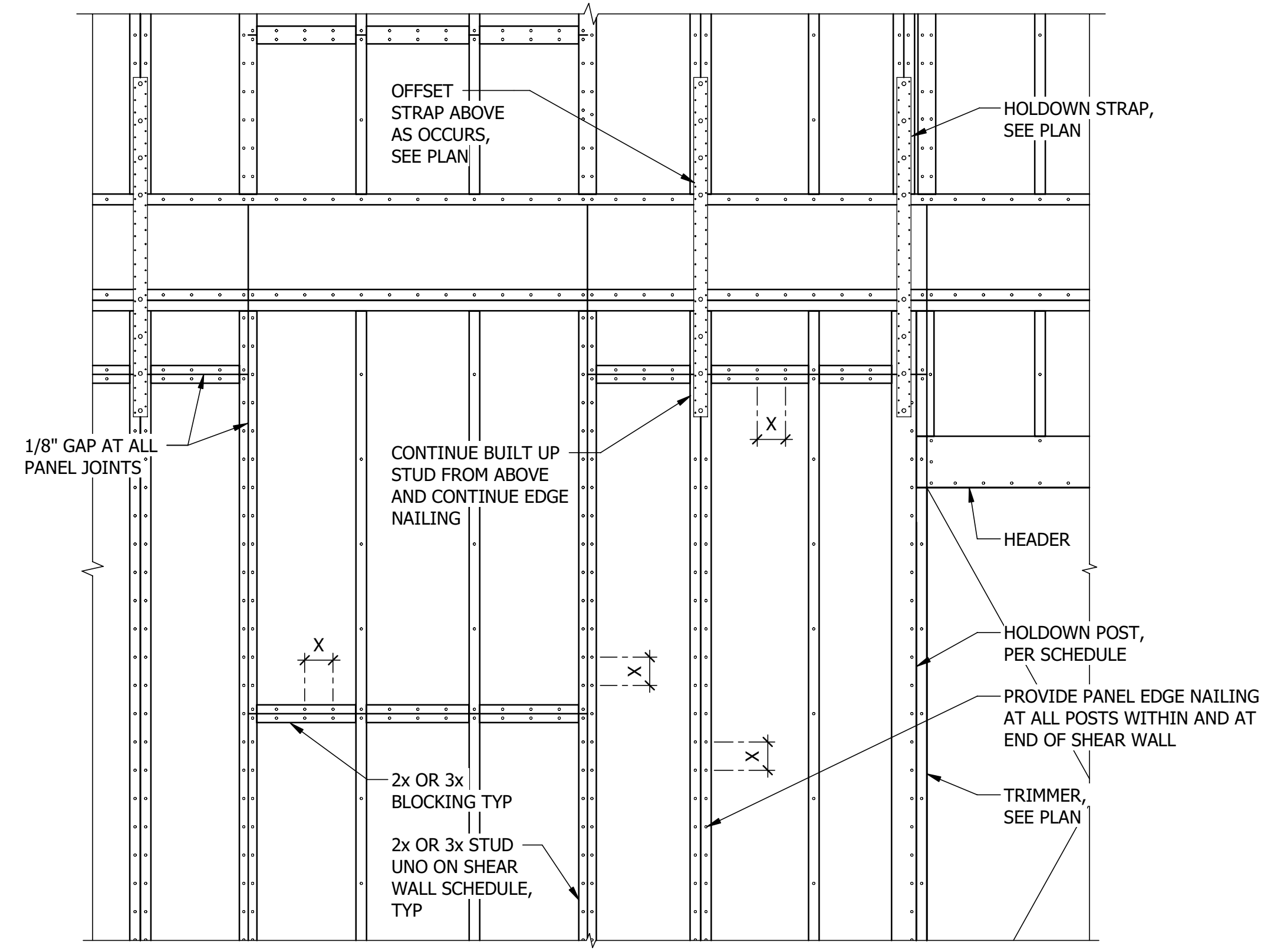
SHEET TITLE
ROOF DETAILS

SHEET
S1.06
 ORIGINAL SHEET SIZE
 24" x 36"

WOOD SHEARWALL SCHEDULE										
MARK	SHEAR WALL SHEATHING [1]	ASD CAPACITY (plf) WIND/SEISMIC	FRAMING MEMBERS AT ADJOINING PANEL EDGES [2], [3], [6]	PANEL EDGE NAILING [4], [5], [6]	MIN SILL OR SOLE PLATE REQUIRED [7]	BOTTOM PLATE ATTACHMENT			SHEAR CONNECTION FROM RIMBOARD/BLOCKING TO TOP PLATE [11]	
						SOLE PLATE CONNECTION TO RIM/BEAM/BLOCKING [8], [9]	ANCHOR BOLTING OF SILL PLATE TO CONCRETE [10]			
SW-6	7/16" APA RATED ONE-SIDE	365/260	2x	8d AT 6" OC	2x	16d AT 4" OC	32" OC	48" OC	A35 OR LTP4 AT 18" OC	

SCHEDULE NOTES:

- INSTALL PANEL SHEATHING VERTICAL FOR THE ENTIRE LENGTH OF THE WALL PER PLAN.
- ALL INTERMEDIATE WALL STUDS SHALL BE PER PLAN. PROVIDE BACKING FRAMING AT ALL PANEL EDGES INCLUDING HORIZONTAL BLOCKING PER THE SCHEDULE.
- PROVIDE NAILING TO ALL PANEL EDGES, TOP AND BOTTOM PLATES, TO DOUBLE SILL/SOLE PLATES WHERE USED, AND TO HORIZONTAL BLOCKING. PROVIDE THE SAME NAILING PATTERN TO (2) 2x OF HOLDOWN POST MINIMUM. AT ALL FRAMING MEMBERS NOT AT A PANEL EDGE, FASTEN WITH NAIL SIZE MATCHING EDGE NAIL SIZE WITH SPACING AT 12" OC UNO.
- NAIL SIZE IS COMMON OR GALVANIZED BOX NAIL SIZE ONLY. SEE GSNS FOR NAIL DIAMETER AND LENGTH.
- WHERE SHEATHING IS APPLIED ON BOTH SIDES OF WALL, PANEL EDGE JOINTS SHALL BE STAGGERED SO THAT JOINTS ON THE OPPOSITE SIDES ARE NOT LOCATED ON THE SAME STUDS.
- 3x SILLS CAN BE USED AT ALL SHEAR WALLS UPON CONTRACTORS PREFERENCE. WHERE (2) 2x'S ARE USED, PLATES MUST BE FASTENED TOGETHER WITH FASTENERS THAT MATCH EDGE NAILING OF SHEARWALL. ALL WOOD MEMBERS IN CONTACT WITH CONCRETE MUST BE PRESSURE TREATED PER GENERAL STRUCTURAL NOTES.
- 16d NAILS ARE PERMITTED TO BE EITHER 0.148" DIA x 3 1/4" OR 16d COMMON UNO. SDWS SCREWS ARE PER SIMPSON AND MUST BE MODEL NUMBER SDWS22600DB UNO IN STRUCTURAL DETAILS.
- PROVIDE HOT DIPPED GALVANIZED NAILS, BOLTS, OR METAL PLATES FOR ALL CONNECTORS IN CONTACT WITH PRESSURE TREATED MEMBERS. GALVANIZED NAILS SHALL BE HOT-DIPPED OR TUMBLED.
- SHEAR CLIPS ARE PER MANUF WITH 8d NAILS PER SIMPSON'S SPECS. (1 1/2" NAILS WHEN INSTALLED DIRECTLY OVER FRAMING, 2 1/2" NAILS WHEN INSTALLED OVER SHEATHING) SIMPSON A35 OR LTP4 CAN BE USED PER CONTRACTORS PREFERENCE.

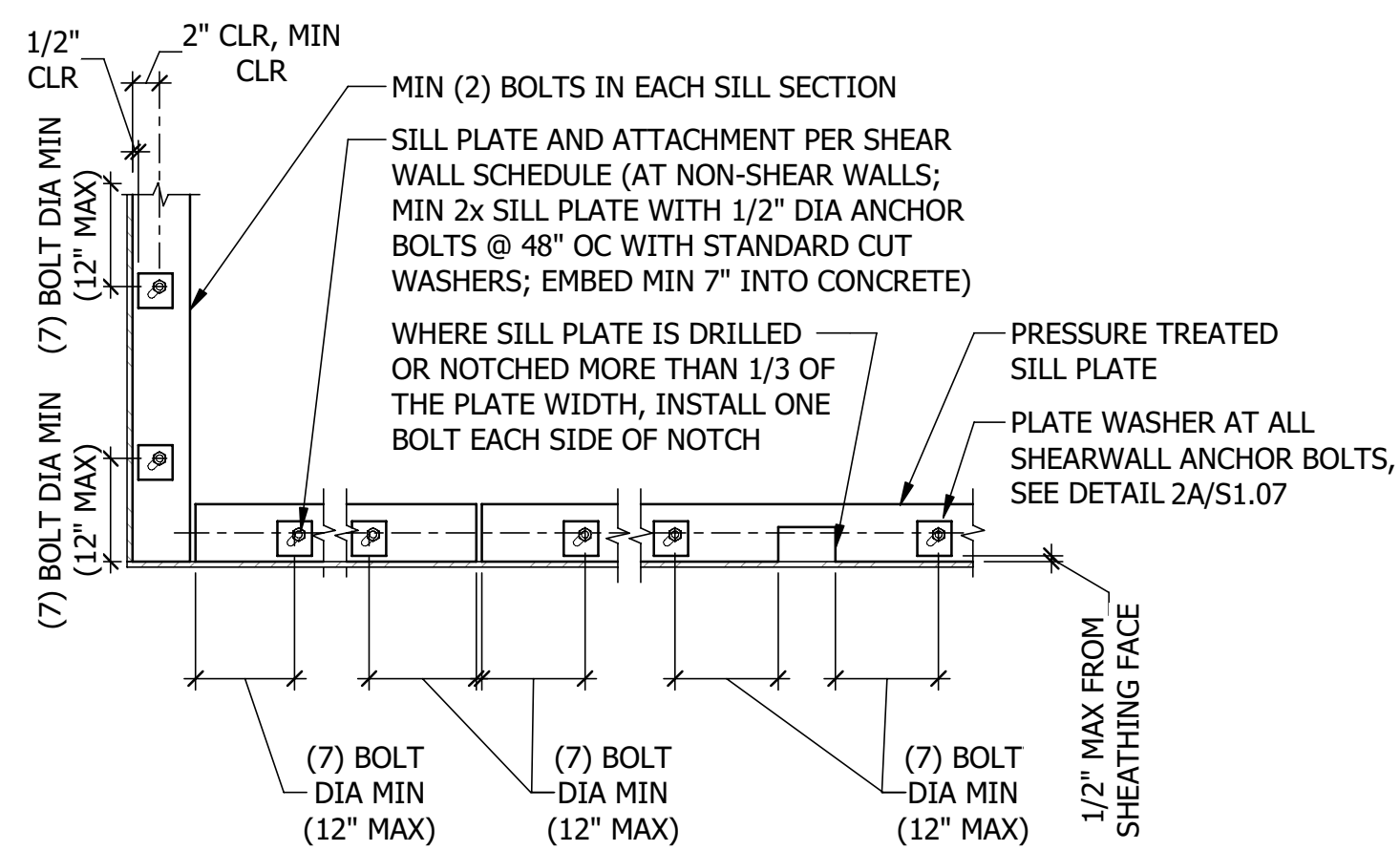


NOTES:

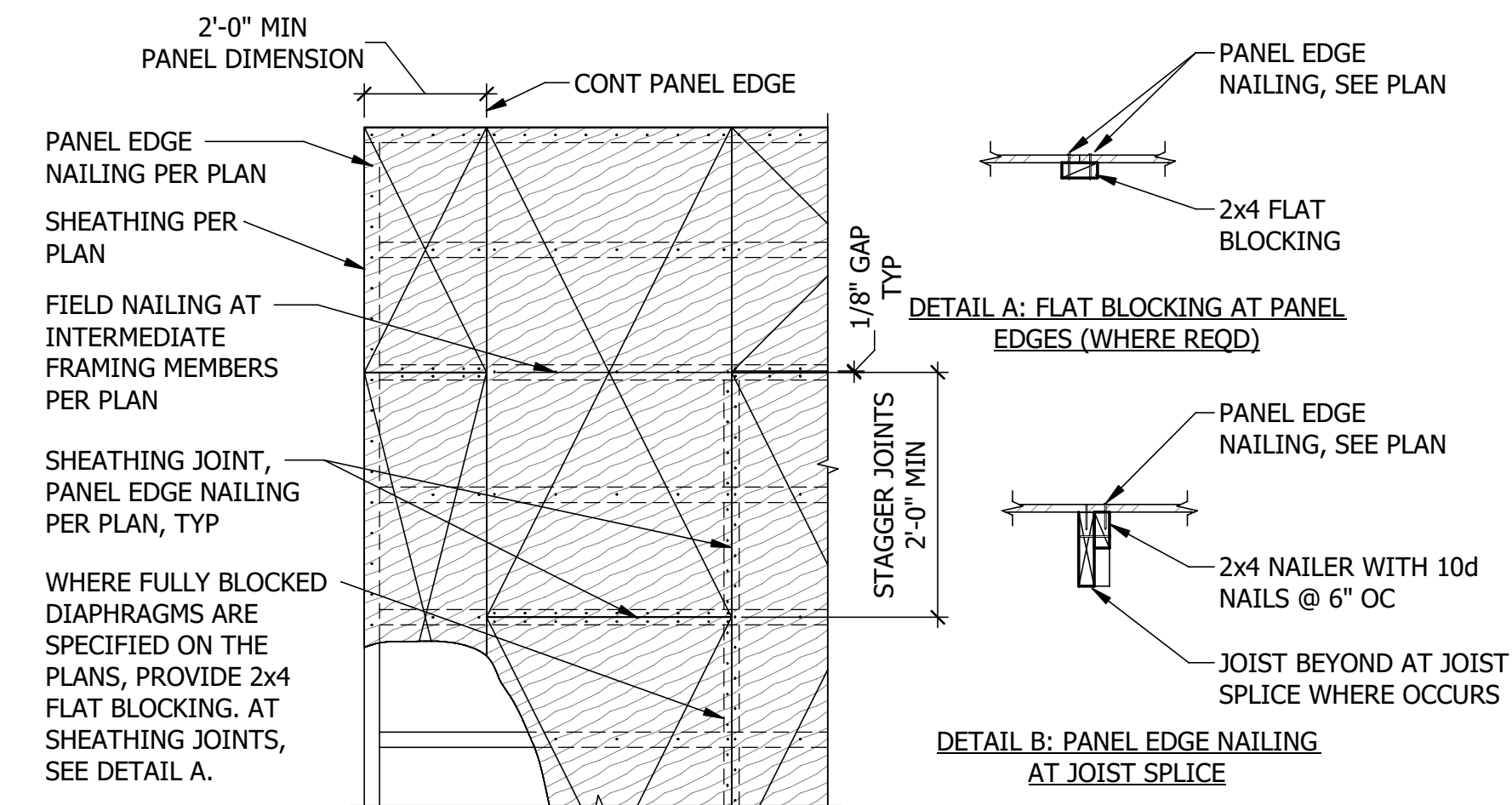
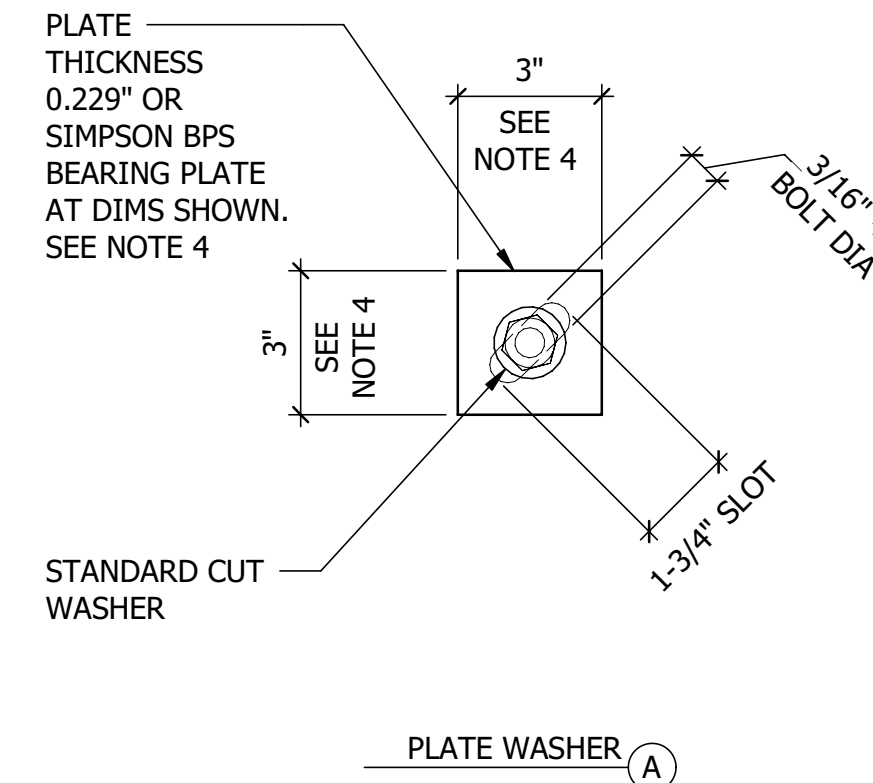
- INDIVIDUAL PIECES OF WOOD STRUCTURAL PANEL SHALL BE NOT LESS THAN 2'-0" IN LEAST DIMENSION OR 8 SQ FT IN AREA.
- RE-TIGHTEN HOLDOWNBOLTS BEFORE CLOSING IN WALL FRAMING.
- PROVIDE SHEATHING ON ENTIRE EXTERIOR SURFACE OF ALL STUD WALLS, UNO IN ARCH DRAWINGS. THE SHEATHING THICKNESS SHALL BE AS REQUIRED TO MAINTAIN A COMMON WALL PLANE, 7/16" MIN PROVIDE FURRING OR BACKING AT ALL INTERIOR WOOD STUD WALL SURFACES WHICH ARE ONLY PARTIALLY SHEATHED WITH WOOD SHEATHING. THE FURRING OR BACKING SHALL BE OF THICKNESS TO MAINTAIN A COMMON WALL PLANE. COORDINATE AND ADJUST HEADER, JAMB AND SILL DETAILS AS REQUIRED FOR PROPER OVERALL WALL THICKNESS.
- "X" INDICATES EDGE NAILING AT SHEARWALLS
- UNO ON SHEARWALL SCHEDULE, PROVIDE THE MINIMUM NAIL SIZE AND SPACING OF 8d NAILS AT 6" OC AT PANEL EDGES, AT SILL AND SOLE PLATES, AND 12" OC AT INTERMEDIATE SUPPORTS.
- PROVIDE 1/8" GAP BETWEEN PANELS AT ALL PANEL EDGE JOINTS.

1 WOOD SHEARWALL SCHEDULE

SCALE: NTS



- NOTES:
- CONTRACTOR OPTION: POWDER ACCUATED FASTENER ALTERNATIVE: HILTI X-CF 72 PINS (ICC-ES ESR 2379) SHALL BE USED IN LIEU OF BOLTS AT INTERIOR NON-BEARING AND NON-SHEAR WALL INSTALLED AT 36" OC.
 - VERIFY FRAMING PRIOR TO PLACEMENT OF ANCHOR BOLTS.
 - ANCHOR BOLTS REQUIRED EACH SIDE OF PLATE SPLICES.
 - AT DOUBLE SIDED 2x6 OR 2x8 SHEARWALLS, PLATE WASHER TO BE 0.229x3x4 1/2 AND 0.229x3x6 1/4, RESPECTIVELY, TO ENSURE PLATES EXTENDS WITHIN 1/2" OF BOTH SHEATHED FACES.

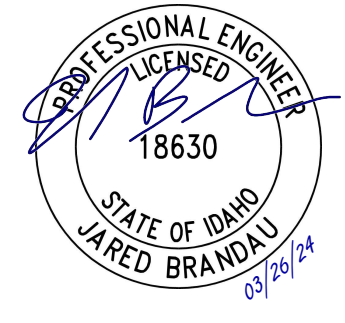


2 SILL PLATE BOLTING

SCALE: NTS

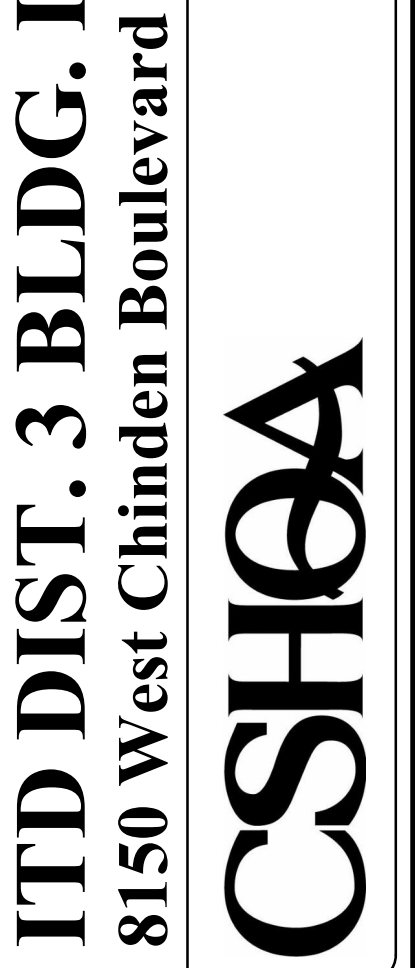
3 ROOF AND FLOOR DIAPHRAGM SHEATHING

SCALE: NTS



200 BROAD STREET
 BOISE, IDAHO
 PHONE: 208-343-4635 • FAX: 208-343-1858

ITD DIST. 3 BLDG. IMPROVEMENT
 8150 West Chinden Boulevard
 GARDEN CITY, ID

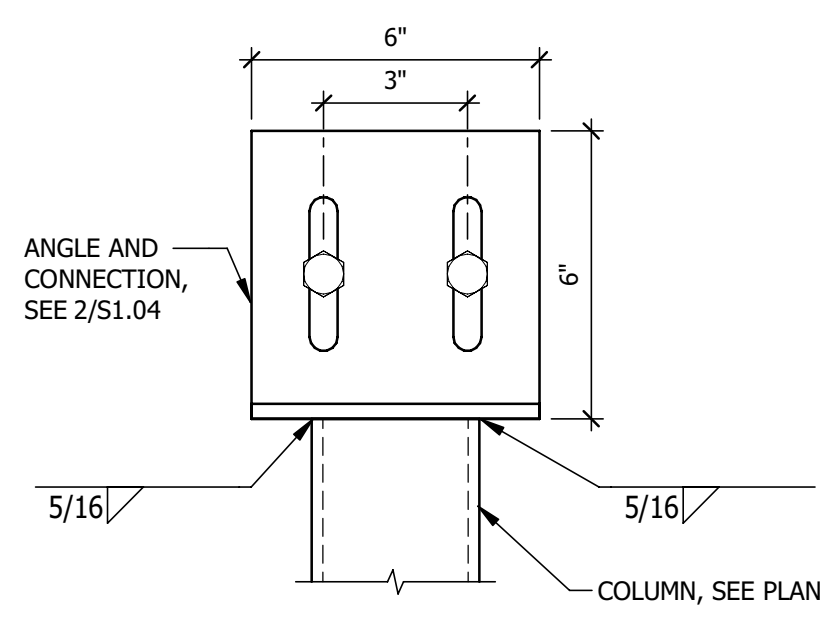
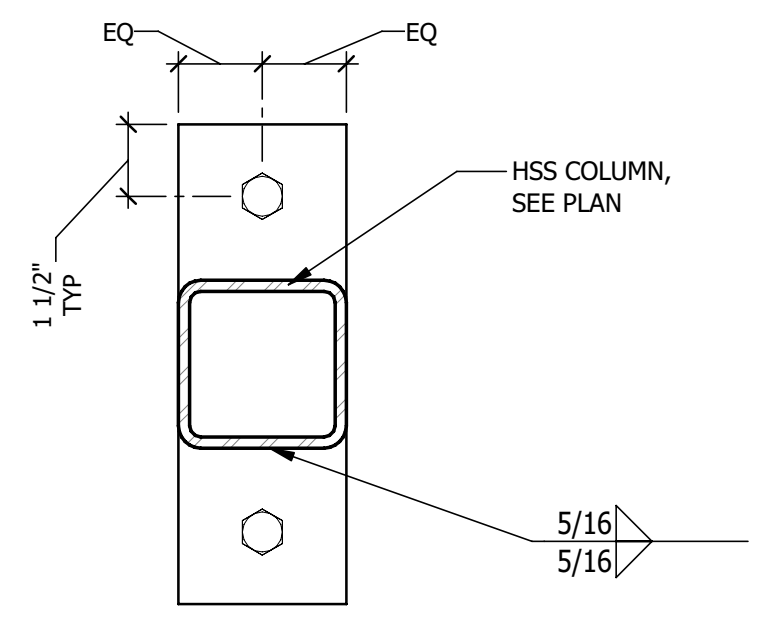


BUILDING IMPROVEMENT PERMIT SET

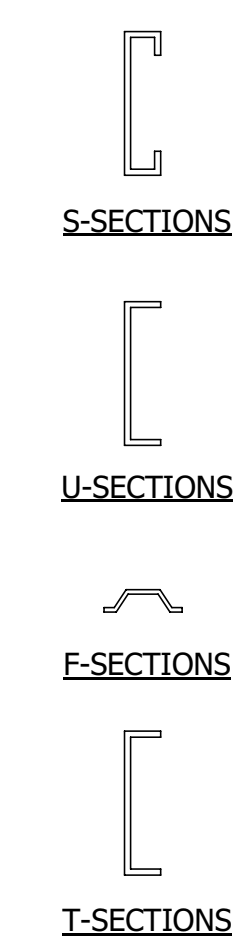
PROJECT 23002	DATE 10-30-23
DRAWN SD	CHECKED JB
REVISED 1_E_BACK CHECK 1	03/27/2024

SHEET TITLE
ROOF DETAILS

SHEET
S1.07
 ORIGINAL SHEET SIZE
 24" x 36"



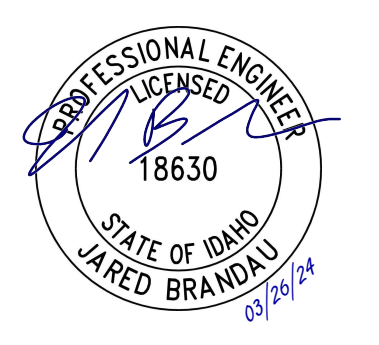
CONVERSION CHART			
MIL	GAUGE	NOTES	F _y (KSI)
18	25	DRYWALL	33
27	22	DRYWALL	33
30	20	DRYWALL	33
33	20	STRUCTURAL	50
43	18	STRUCTURAL	50
54	16	STRUCTURAL	50
68	14	STRUCTURAL	50
97	12	STRUCTURAL	50
118	10	STRUCTURAL	50



SHAPE	DESIGNATION	FLANGE WIDTH
S-SECTIONS	S125	1.25"
	S137	1.375"
	S162	1.625"
	S200	2"
U-SECTIONS	S250	2.5"
	U50	.50"
F-SECTIONS	F125	1.25"
	T125	1.25"
T-SECTIONS	T150	1.5"
	T200	2"

EXAMPLE CALL OUT: 600S162-54
 600: SIZE = 6"
 S: SECTION DESIGNATION (STYLE) = S STUD
 162: 1.625" FLANGE WIDTH
 54: .054 THICKNESS

REFER TO STEEL STUD MANUFACTURERS ASSOCIATION (SSMA)



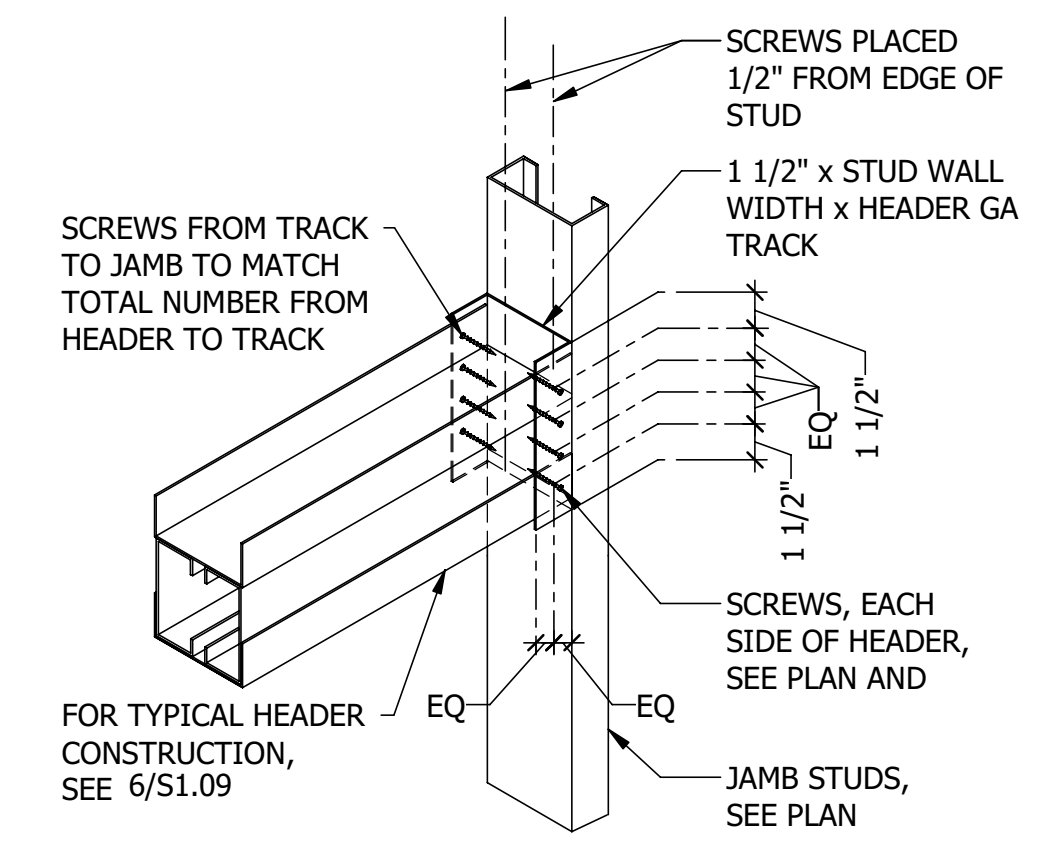
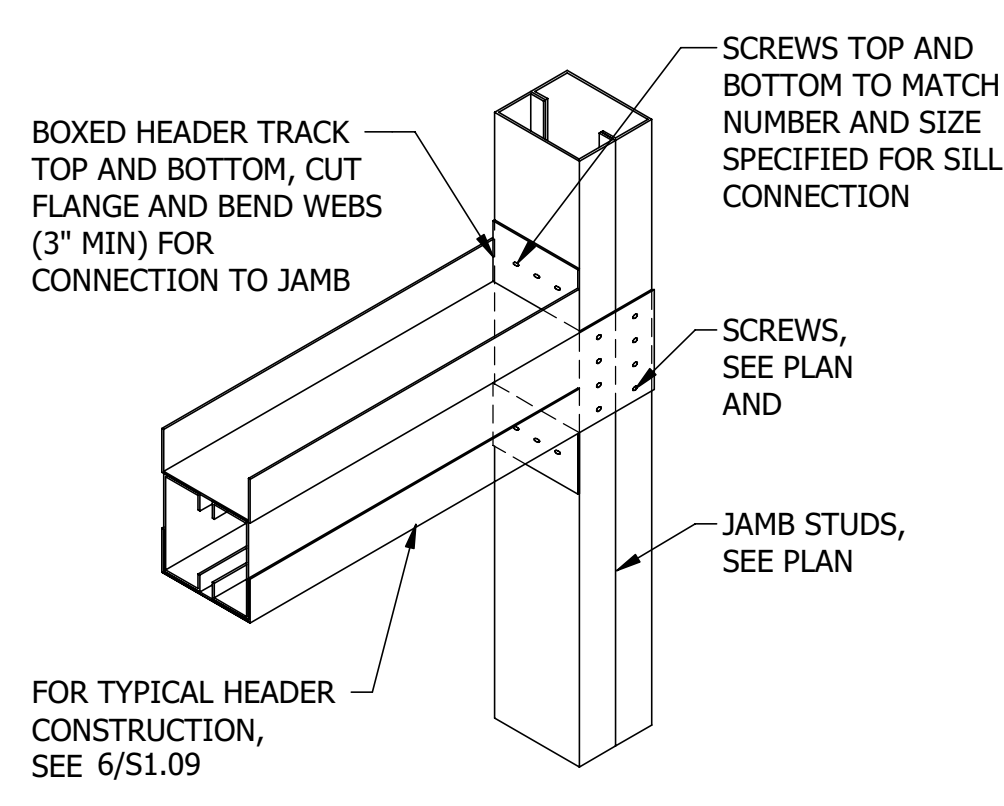
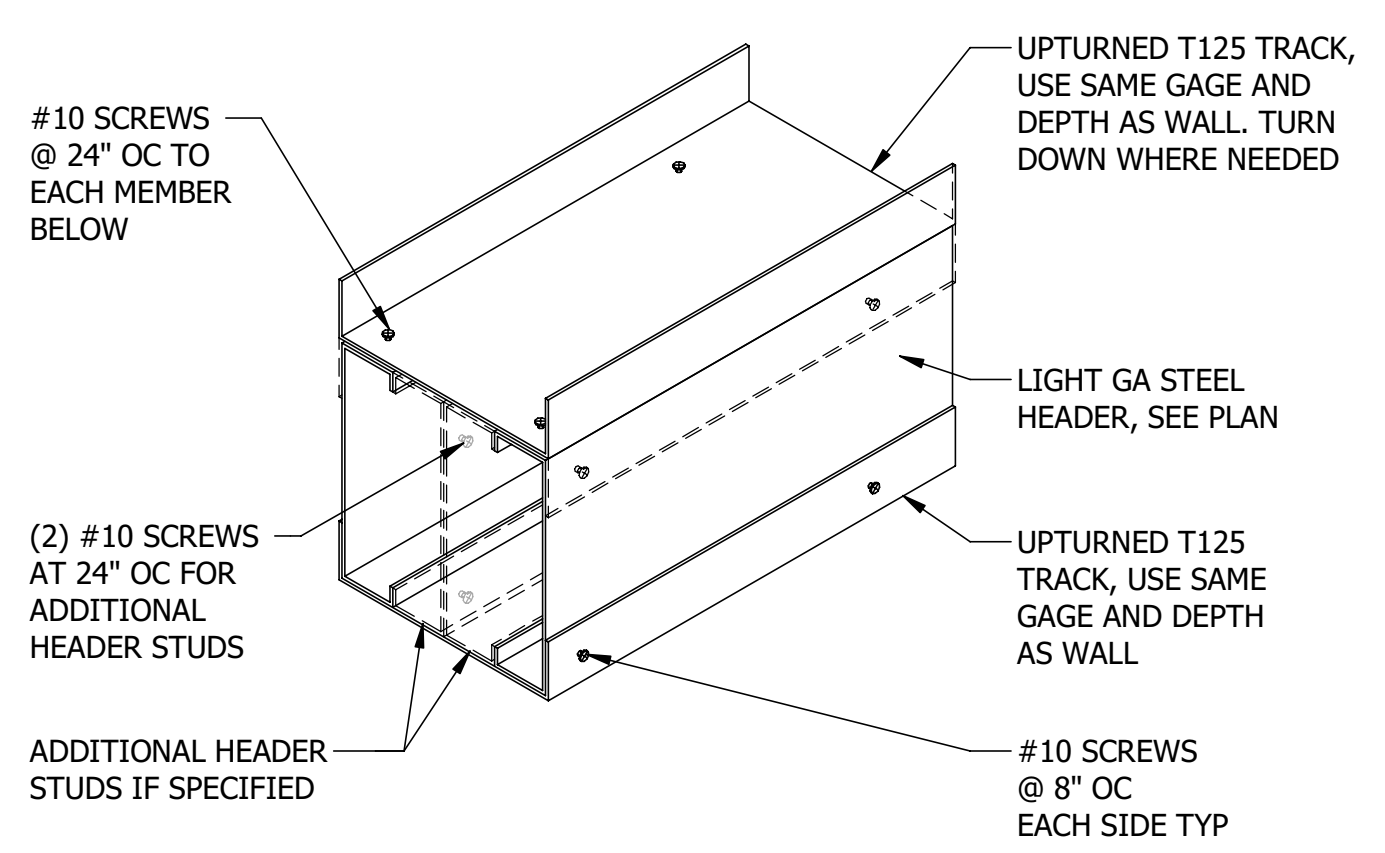
1 BASE PL PLAN
 SCALE: NTS
 REF SHEET: S1.04

2 COLUMN TOP CONNECTION
 SCALE: NTS
 REF SHEET: S1.04

3 LIGHT GAUGE STEEL THICKNESS TABLE
 SCALE: NTS

4 STEEL STUD/JOIST SECTION IDENTIFICATION
 SCALE: NTS

SECTION THICKNESS		'A' WELD SIZE (IN)	F _y (ksi)	F _u (ksi)
(mils)	(IN)			
43	0.0451	18	33	36
54	0.0566	16	33	36
68	0.0713	14	33	36
97	0.1017	12	33	36
43	0.0451	18	50	54
54	0.0566	16	50	54
68	0.0713	14	50	54
97	0.1017	12	50	54



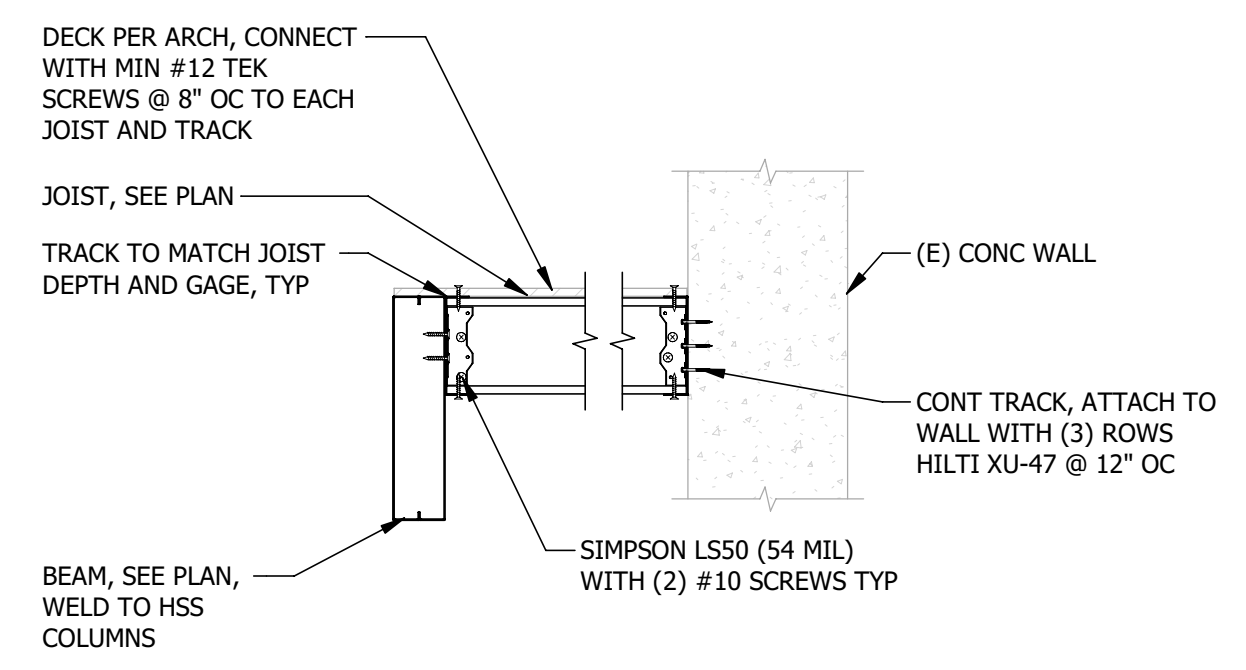
NOTES:
 1. F_y = THE MINIMUM YIELD STRENGTH OF THE CONNECTED PARTS
 F_u = THE MINIMUM TENSILE STRENGTH OF THE CONNECTED PARTS
 2. WHEN CONNECTING MATERIALS OF DIFFERENT THICKNESS OR TENSILE STRENGTHS, USE THE WELD SIZE FOR THE LIGHTER GAUGE SECTION.
 3. WELD PROCEDURES ARE BASED ON SECTION E2 OF THE AISI CODE AND AWS D1.3.
 4. STEEL STUD SECTIONS MUST BE AT LEAST 18 GAUGE MINIMUM FOR WELDING.

NOTES:
 1. FOR CONNECTION TO JAMB, SEE 7/S1.09

5 STEEL STUD/JOIST WELDING
 SCALE: NTS

6 TYPICAL BOX HEADER
 SCALE: NTS

7 BOXED HEADER TO JAMB CONNECTION
 SCALE: NTS



8 CANOPY TO EXISTING WALL
 SCALE: NTS
 REF SHEET: S1.03

ITD DIST. 3 BLDG. IMPROVEMENT
8150 West Chinden Boulevard
GARDEN CITY, ID
CSHOA

200 BROAD STREET
 BOISE, IDAHO
 PHONE: 208-343-4635 • FAX: 208-343-1859

THESE DRAWINGS AND SPECIFICATIONS ARE TO REMAIN THE PROPERTY OF THE ARCHITECT/ENGINEER UNLESS OTHERWISE NOTED. THESE DRAWINGS AND SPECIFICATIONS SHALL NOT BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN CONSENT OF CS HOA OR ITS AFFILIATES.
 Copyright © 2022

(208) 343-4635 • FAX (208) 343-1858
 http://www.cshoa.com

BUILDING IMPROVEMENT PERMIT SET

PROJECT 23002	DATE 10-30-23
DRAWN SD	CHECKED JB

REVISED

SHEET TITLE
STEEL DETAILS

SHEET
S1.09
 ORIGINAL SHEET SIZE
 24" x 36"



MECHANICAL ABBREVIATIONS			
A/C or AC	AIR CONDITIONING	KW	KILOWATT
AFF	ABOVE FINISHED FLOOR	KWH	KILOWATT HOUR
AHU	AIR HANDLING UNIT		
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATION, AND AIR-CONDITIONING ENGINEERS	LAT	LEAVING AIR TEMPERATURE
		LAV	LAVATORY
BTU	BRITISH THERMAL UNITS	LEED	LEADERSHIP IN ENERGY AND ENVIRONMENTAL DESIGN
BTUH	BTUS PER HOUR	LWT	LEAVING WATER TEMPERATURE
		MAX	MAXIMUM
CA	COMBUSTION AIR	MCA	MINIMUM CIRCUIT AMPS
CC	COOLING COIL	MOCOP	MAXIMUM OVERCURRENT PROTECTION
CFM	AIR FLOW RATE (CUBIC FEET PER MINUTE)	MIN	MINIMUM
CHWR	CHILLED WATER RETURN		
CHWS	CHILLED WATER SUPPLY		
CLG	CEILING	NC	NOISE CRITERIA
CW	COLD WATER	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
		NTS	NOT TO SCALE
DEG or °	DEGREE	OSA	OUTSIDE AIR
DIA or Ø	DIAMETER	PD	PRESSURE DROP
DB	DRY BULB	PH or Ø	PHASE
EA	EXHAUST AIR	PRV	PRESSURE REDUCING VALVE
EAT	ENTERING AIR TEMPERATURE		
EER	ENERGY EFFICIENCY RATIO	RA	RETURN AIR
ESP	EXTERNAL STATIC PRESSURE	RPM	REVOLUTIONS PER MINUTE
EWT	ENTERING WATER TEMPERATURE	RTU	ROOFTOP UNIT
FCO	FLOOR CLEANOUT	SA	SUPPLY AIR
FD	FIRE DAMPER	SEER	SEASONAL ENERGY EFFICIENCY RATIO
FLA	FULL LOAD AMPS	SFD	COMBINATION SMOKE/FIRE DAMPER
FLR	FLOOR	SP	STATIC PRESSURE
FFM	FEET PER MINUTE	SYM	SYMBOL
FT	FEET		
		T & P	TEMPERATURE AND PRESSURE
GA	GAUGE	TEMP	TEMPERATURE
GCO	GRADE CLEANOUT	TYP	TYPICAL
GPM	WATER FLOW RATE (GALLONS PER MINUTE)		
		UMC	UNIFORM MECHANICAL CODE
HC	HEATING COIL	UPC	UNIFORM PLUMBING CODE
HP	HORSE POWER	URL	URINAL
HVAC	HEATING, VENTILATING, AIR CONDITIONING		
HW	HOT WATER	VTR	VENT THROUGH ROOF
HWR	HOT WATER RETURN	V	VOLTS
HWS	HOT WATER SUPPLY		
		W	WITH
IBC	INTERNATIONAL BUILDING CODE	WB	WET-BULB
IECC	INTERNATIONAL ENERGY CONSERVATION CODE	WC	WATER CLOSET
IFC	INTERNATIONAL FIRE CODE	WCO	WALL CLEANOUT
IFGC	INTERNATIONAL FUEL GAS CODE	WH	WATER HEATER
IMC	INTERNATIONAL MECHANICAL CODE		
IPC	INTERNATIONAL PLUMBING CODE		
NOTE:	THIS IS A STANDARD LIST OF COMMONLY USED MECHANICAL ABBREVIATIONS. SOME OF THE ABBREVIATIONS SHOWN ABOVE MAY NOT BE USED IN THIS DRAWING PACKAGE.		

MECHANICAL GENERAL NOTES	
1.	ALL MECHANICAL EQUIPMENT AND SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE INTERNATIONAL MECHANICAL CODE (IMC) LATEST EDITION, AND ALL APPLICABLE LOCAL AND STATE CODES.
2.	ALL MECHANICAL SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS.
3.	MECHANICAL CONTRACTORS SHALL RECEIVE PRIOR APPROVAL FROM THE STRUCTURAL ENGINEER BEFORE MAKING CUTS THROUGH ANY STRUCTURAL MEMBER.
4.	MECHANICAL CONTRACTORS SHALL COORDINATE INSTALLATION WITH CONSTRUCTION SUPERVISOR AND WITH ALL OTHER TRADES TO AVOID CONFLICTS.
5.	THE MECHANICAL CONTRACTORS SHALL VERIFY MOTOR VOLTAGES WITH THE ELECTRICAL DRAWINGS PRIOR TO ORDERING MOTORIZED EQUIPMENT AND CONTROLS.
6.	SEE MECHANICAL SCHEDULE SHEET FOR SCHEDULED CAPACITIES OF ALL MECHANICAL EQUIPMENT AND MATERIALS SPECIFIED.
7.	ALL MECHANICAL EQUIPMENT TO BE PROPOSED MUST BE ON THE APPROVED LIST PRIOR TO SUBMITTALS. ALL APPROVED MANUFACTURERS MUST BE CAPABLE OF MEETING THE REQUIREMENTS OF THE SPECIFIED EQUIPMENT.
8.	PAINT MECHANICAL ITEMS ON THE ROOF TO MATCH THE ROOF COLOR.
9.	INSULATED FLEXIBLE DUCTWORK--IN LENGTHS OF 6'-0" OR LESS--MAY BE USED FOR RUNOUTS TO AIR TERMINALS.
10.	MAINTAIN MINIMUM 10'-0" DISTANCE BETWEEN ALL FRESH AIR INTAKES AND EXHAUST OR GAS FLUE DISCHARGES.
11.	LOCATE ACCESS HATCHES SO AS TO PROVIDE OPTIMUM SERVICEABILITY TO EQUIPMENT AND/OR VALVING. SEE ARCHITECTURAL SPECIFICATION FOR TYPE AND COLOR. COORDINATE LOCATION WITH ARCHITECTURAL, STRUCTURAL, AND LIGHTING.
12.	WHENEVER THERE IS A DISCREPANCY BETWEEN THE RUNOUT DUCT SIZE SHOWN ON THE PLANS AND THAT SHOWN IN THE SCHEDULE, ALWAYS USE THE LARGER OF THE TWO DUCT SIZES.
13.	THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR VERIFICATION OF EXISTING JOB CONDITIONS PRIOR TO BID. NO ADDITIONAL COST SHALL BE AWARDED TO THE SUCCESSFUL CONTRACTOR (OR THEIR SUBCONTRACTORS) AFTER BIDS HAVE BEEN SUBMITTED AND CONTRACTS AWARDED FOR FAILURE TO VERIFY EXISTING FIELD CONDITIONS. DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR ALTERNATIVE METHODS OF INSTALLATION PRIOR TO THE BIDDING OF THIS PROJECT.
14.	UNLESS OTHERWISE NOTED, ALL EXISTING MECHANICAL EQUIPMENT, PIPING, ETC., TO BE REMOVED SHALL BE DISPOSED OF BY THE CONTRACTOR UNDER THIS CONTRACT. THE OWNER SHALL RETAIN THE RIGHT TO KEEP ANY REMOVED ITEMS.
15.	HOLES IN EXISTING WALLS OR FLOORS SHALL BE PATCHED TO MATCH EXISTING WHERE PIPING, DUCTWORK, ETC. WERE REMOVED OR ADDED DURING THIS PROJECT.
16.	DAMAGE TO THE EXISTING FACILITY DURING THE CONSTRUCTION OF THIS PROJECT SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO COST TO THE OWNER.

MECHANICAL AND PLUMBING DRAWINGS LEGEND			
	FLEXIBLE DUCTWORK		THREE WAY CONTROL VALVE
	DUCTWORK		TWO WAY CONTROL VALVE
	DUCTWORK BREAK		PRESSURE REDUCING VALVE
	DUCTWORK OR PIPING RISE		GATE VALVE
	CONCENTRIC SQUARE TO ROUND TRANSITION		REDUCER
	MOTORIZED DAMPER		GLOBE VALVE
	MANUAL VOLUME DAMPER		BALL VALVE
	SPIN-IN FITTING W/ AIR EXTRACTOR AND HAND DAMPER		BUTTERFLY VALVE
	HIGH EFFICIENCY FITTING W/ HAND DAMPER		BALANCE VALVE
	SWITCH		CHECK VALVE
	THERMOSTAT		FLOOR CLEANOUT
	HUMIDISTAT		WALL CLEANOUT
	TEMPERATURE SENSOR		GRADE CLEANOUT
	CARBON DIOXIDE SENSOR		WATER HAMMER ARRESTOR
	CARBON MONOXIDE SENSOR		FLOOR DRAIN
	NITROUS OXIDE SENSOR		FLOOR SINK
	DUCT SMOKE DETECTOR		GAS PRESSURE REGULATOR W/ GAS COCK
	COMBINATION SMOKE/FIRE DAMPER		PRESSURE RELIEF VALVE
	FIRE DAMPER		VENT-THROUGH-ROOF
	SMOKE DAMPER		VENT
	EQUIPMENT CALLOUT		SOIL, WASTE, OR SANITARY SEWER
	TURNING VANES		ACID WASTE LINE
	INTAKE OR EXHAUST		ACID VENT LINE
	DIRECTION OF AIRFLOW		STORM DRAIN
	SUPPLY DIFFUSER		ROOF DRAIN LINE
	RETURN GRILLE		OVERFLOW DRAIN LINE
	EXHAUST GRILLE		CONDENSATE DRAIN LINE
	FLOOR GRILLE		DOMESTIC COLD WATER (CW)
	CEILING EXHAUST FAN		DOMESTIC HOT WATER (HW)
	TEMPERATURE GAUGE		DOMESTIC HOT WATER RETURN (HWR)
	PRESSURE GAUGE (LIQUID FILLED W/ ISOLATION VALVE)		TEMPERED WATER (TW)
	TEMPERATURE SENSOR (DUCT OR PIPING)		MEDIUM PRESSURE NATURAL GAS
	FLOW SWITCH		LOW PRESSURE NATURAL GAS
	STAINLESS STEEL BRAIDED FLEX CONNECTION		FIRE SPRINKLER LINE
	ELASTOMETRIC FLEX CONNECTOR		GEOTHERMAL WATER SUPPLY
	SUCTION DIFFUSER		GEOTHERMAL WATER RETURN
	Y TYPE STRAINER (1-1/2" OR LARGER PROVIDED W/ BLOW DOWN VALVE)		CHILLED WATER SUPPLY
	FLOW DIRECTION		CHILLED WATER RETURN
	DEMOLITION / EQUIPMENT TO BE REMOVED		CONDENSER WATER SUPPLY
	NEW TO EXISTING CONNECTION POINT		CONDENSER WATER RETURN
	EXISTING		HEATING WATER SUPPLY
	FUTURE		HEATING WATER RETURN
	NEW		LIQUID REFRIGERANT LINE
	REDUCED PRESSURE BACKFLOW PREVENTER		SUCTION REFRIGERANT LINE
	DOUBLE CHECK BACKFLOW PREVENTER		SLOPE PIPE IN DIRECTION OF ARROW
	UNION		PIPE ANCHOR
	AIR VENT		PIPE GUIDE
	TRIPLE DUTY VALVE		CAP
NOTE:	THIS IS A LIST OF COMMONLY USED MECHANICAL AND PLUMBING SYMBOLS. SOME OF THE SYMBOLS SHOWN ABOVE MAY NOT BE USED IN THIS DRAWING PACKAGE.		

ENERGY CODE COMPLIANCE	
A.	COMPLIANCE WITH THE LATEST ADOPTED EDITION OF THE INTERNATIONAL ENERGY CONSERVATION CODE IS REQUIRED FOR THIS PROJECT. THESE NOTES COVER MANDATORY REQUIREMENTS OF THE CODE. ADDITIONAL REQUIREMENTS ARE NOTED ON THE DRAWINGS AND IN THE SPECIFICATIONS.
B.	MINIMUM REQUIREMENTS FOR SUPPLY AND RETURN DUCTWORK INSULATION: <ul style="list-style-type: none"> 1. R-6: DUCTS LOCATED IN UNCONDITIONED SPACES (SPACE NEITHER HEATED NOR COOLED SUCH AS ABOVE CEILING SPACES, WALL SPACES, DUCT CHASES, SOFFITS, ATTICS, CRAWL SPACES, UNHEATED BASEMENTS, AND UNHEATED GARAGES). 2. R-12: DUCTS LOCATED OUTSIDE OF THE BUILDING'S INSULATION ENVELOPE (SUCH AS ABOVE THE ATTIC INSULATION). TYPICAL INSULATION THICKNESS REQUIRED TO MEET THESE REQUIREMENTS: <ul style="list-style-type: none"> 1. FIBERGLASS DUCT WRAP: R-6, R-12 2. FIBERGLASS DUCT LINER: R-6, R-12.
C.	CONTRACTOR SHALL VERIFY THE R-VALUES OF THE ACTUAL INSULATION USED WITH THE MANUFACTURER. R-VALUES SHALL BE INSTALLED VALUES.
D.	WHERE DUCTS USED FOR COOLING ARE EXTERNALLY INSULATED, THE INSULATION SHALL BE COVERED WITH A VAPOR RETARDER HAVING A MAXIMUM PERMEANCE OF 0.05 PERM OR ALUMINUM FOIL HAVING A MINIMUM THICKNESS OF 2 MILS. INSULATION HAVING A PERMEANCE OF 0.05 PERMS OR LESS SHALL NOT BE REQUIRED TO BE COVERED. ALL JOINTS AND SEAMS SHALL BE SEALED TO MAINTAIN THE CONTINUITY OF THE VAPOR RETARDER.
E.	ALL DUCT JOINTS, SEAMS, AND CONNECTIONS SHALL BE FASTENED AND SEALED WITH WELDS, GASKETS, ADHESIVES, MASTIC-PLUS-EMBEDDED-FABRIC SYSTEMS, OR TAPES. TAPES AND MASTICS SHALL BE LISTED AND LABELED PER UL181A OR UL181B. DUCT TAPE IS NOT PERMITTED AS A SEALANT ON ANY METAL DUCTS. DUCT CONNECTIONS TO FLANGES OR EQUIPMENT SHALL BE SEALED AND MECHANICALLY FASTENED.
F.	AN OPERATING AND MAINTENANCE MANUAL SHALL BE PROVIDED PRIOR TO ISSUANCE OF A CERTIFICATE OF OCCUPANCY. THE O&M MANUAL SHALL CONTAIN THE FOLLOWING INFORMATION AS A MINIMUM: <ul style="list-style-type: none"> 1. EQUIPMENT CAPACITY (INPUT & OUTPUT). 2. EQUIPMENT OPERATING AND MAINTENANCE INSTRUCTIONS. 3. CONTROL SYSTEM MAINTENANCE AND CALIBRATION INFORMATION, INCLUDING WIRING DIAGRAMS, SCHEMATICS, AND CONTROL SEQUENCES. 4. CONTROL SYSTEM SETPOINTS SHALL BE SHOWN ON CONTROL DRAWINGS, AT CONTROL DEVICES, OR IN PROGRAMMING COMMENT ON DDC SYSTEMS. 5. A COMPLETE WRITTEN NARRATIVE ON HOW EACH MECHANICAL SYSTEM IS INTENDED TO OPERATE.

MUSGROVE ENGINEERING, P.A.
 234 S. Whisperwood Way
 Boise, ID 83709
 208.384.0585
 645 West 25th Street
 Idaho Falls, ID 83402
 208.533.2962
 www.musgrovepa.com
 Project No. 23-264

PROFESSIONAL ENGINEER
 LICENSED
13789
 10/30/2023
 STATE OF IDAHO
 TODD NELSON

200 BROAD STREET
 BOISE, IDAHO
 PHONE: 208-343-4635 • FAX: 208-343-1658

THE ARCHITECT'S RESPONSIBILITY IS TO EXAMINE THE WORK OF OTHER PROFESSIONALS AND TO REMAIN THE PROPERTY OF THE ARCHITECT/ENGINEER UNLESS OTHERWISE SPECIFIED. THE ARCHITECT/ENGINEER SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED BY OTHER PROFESSIONALS OR FOR THE ACCURACY OF THE INFORMATION PROVIDED BY OTHER PROFESSIONALS IN THE FIELD. THE ARCHITECT/ENGINEER SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED BY OTHER PROFESSIONALS IN THE FIELD.

ITD DIST. 3 BLDG. IMPROVEMENT
BOISE, ID
 8150 West Chinden Boulevard
CSHOA

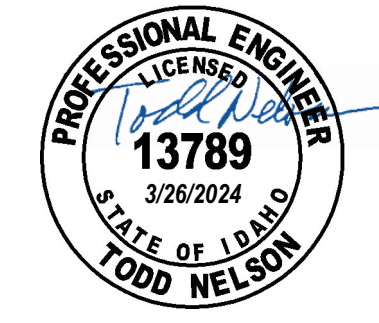
200 BROAD STREET
 BOISE, ID 83702
 (208) 343-4635 • FAX (208) 343-1658
 http://www.cshoa.com

BUILDING IMPROVEMENT PERMIT SET

PROJECT	DATE
23002	10-30-23
DRAWN	CHECKED
ED	TN

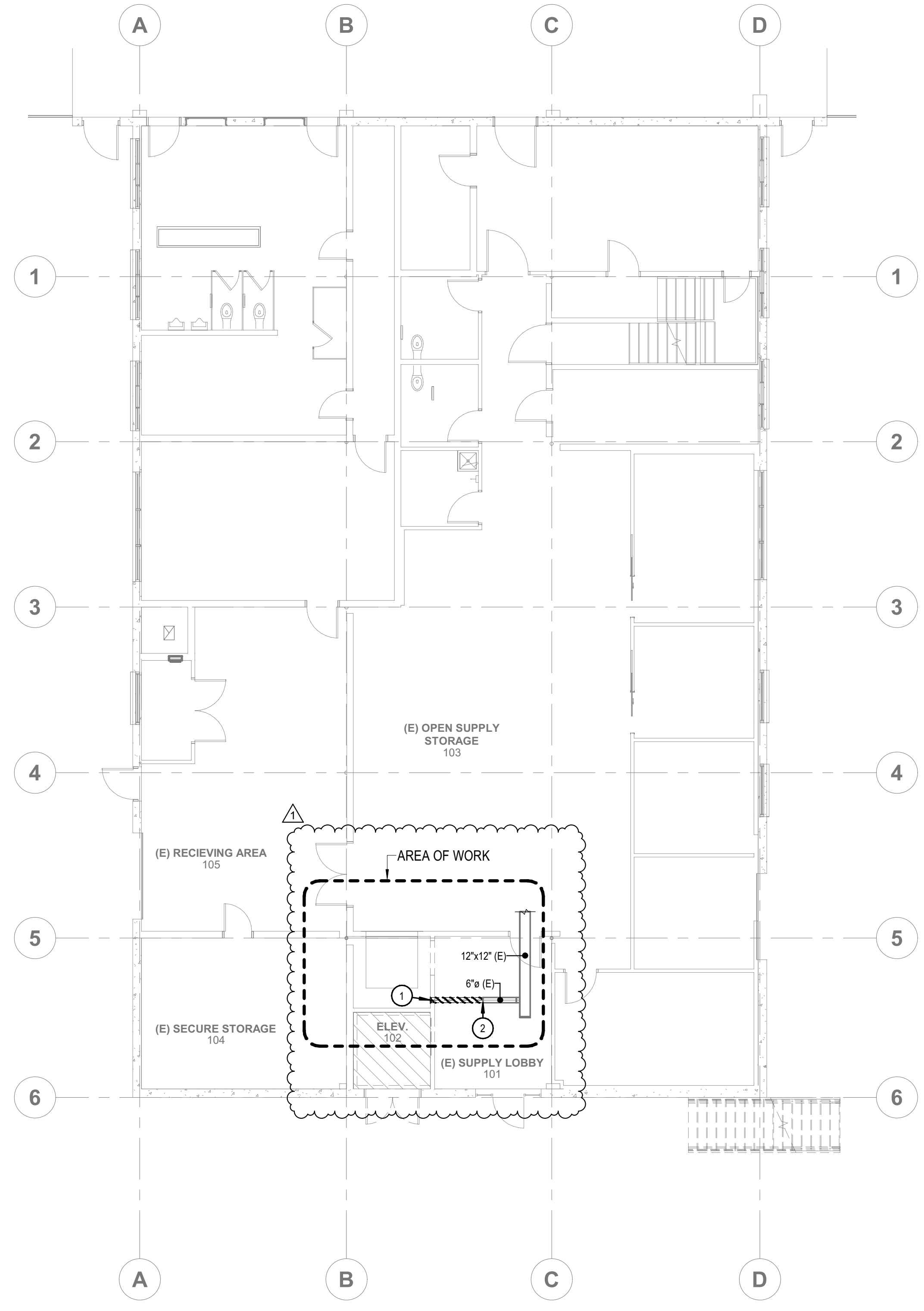
SHEET TITLE
MECHANICAL COVERSHEET

SHEET
M00.1
 ORIGINAL SHEET SIZE
 24" x 36"

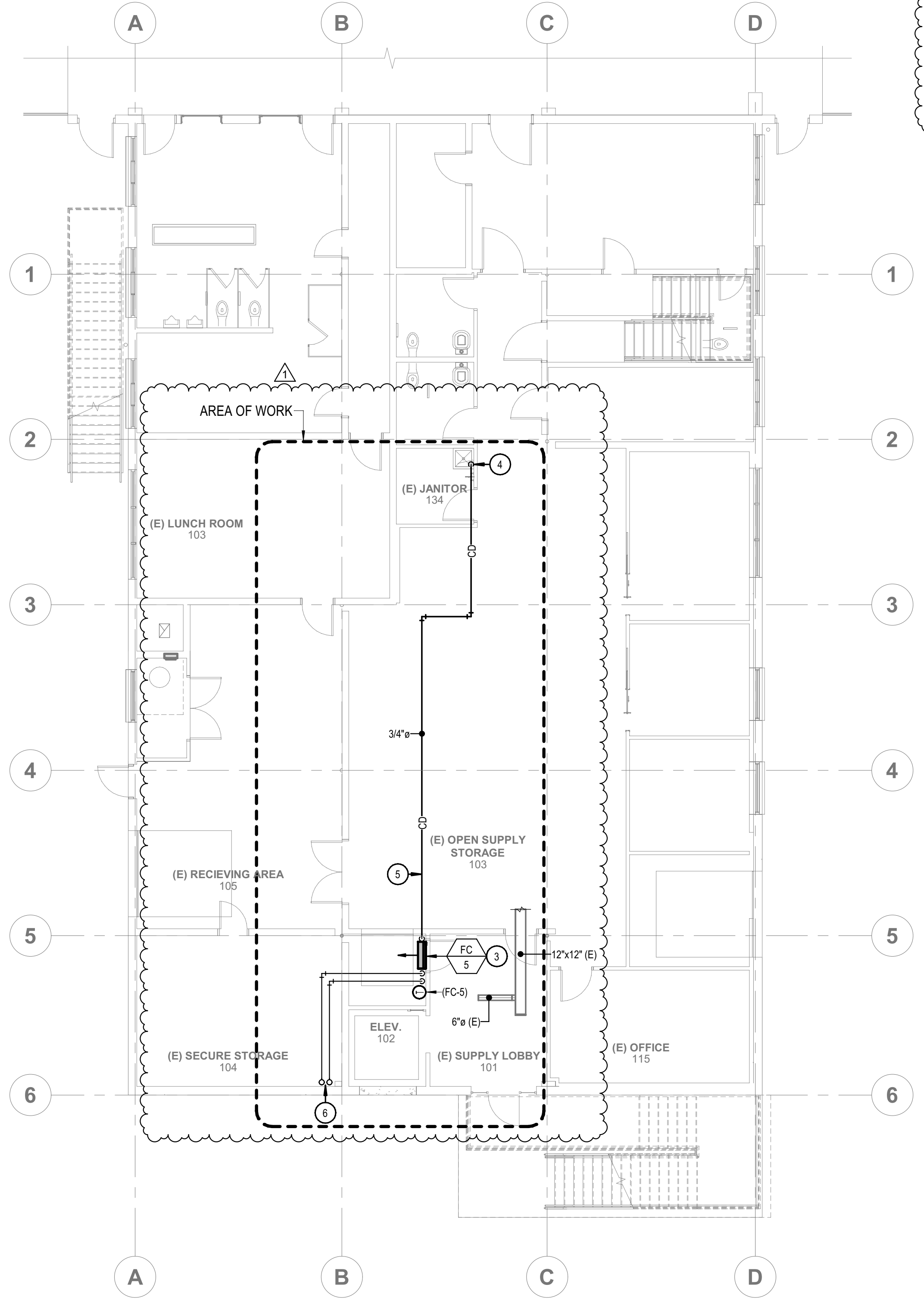


KEYED NOTES:

- ① SYMBOL USED FOR CALLOUT
- REMOVE EXISTING WALL SUPPLY GRILLE. PATCH, REPAIR, AND PAINT TO MATCH EXISTING WALL.
 - REMOVE EXISTING DUCTWORK BACK INDICATED LOCATION AND CAP.
 - INSTALL HIGH WALL DUCTLESS SPLIT FAN COIL UNIT ABOVE DOOR PER MANUFACTURER RECOMMENDATIONS.
 - ROUTE 3/4" CD EXPOSED DOWN WALL. TERMINATE INDIRECTLY AT EXISTING FLOOR SINK.
 - ROUTE 3/4" CD ABOVE CEILING.
 - ROUTE REFRIGERANT LINES UP TO FLOOR ABOVE. SEE SECOND FLOOR PLAN FOR CONTINUATION.



1 HVAC DEMO FIRST FLOOR PLAN
 1/8" = 1'-0"



2 HVAC NEW FIRST FLOOR PLAN
 1/8" = 1'-0"

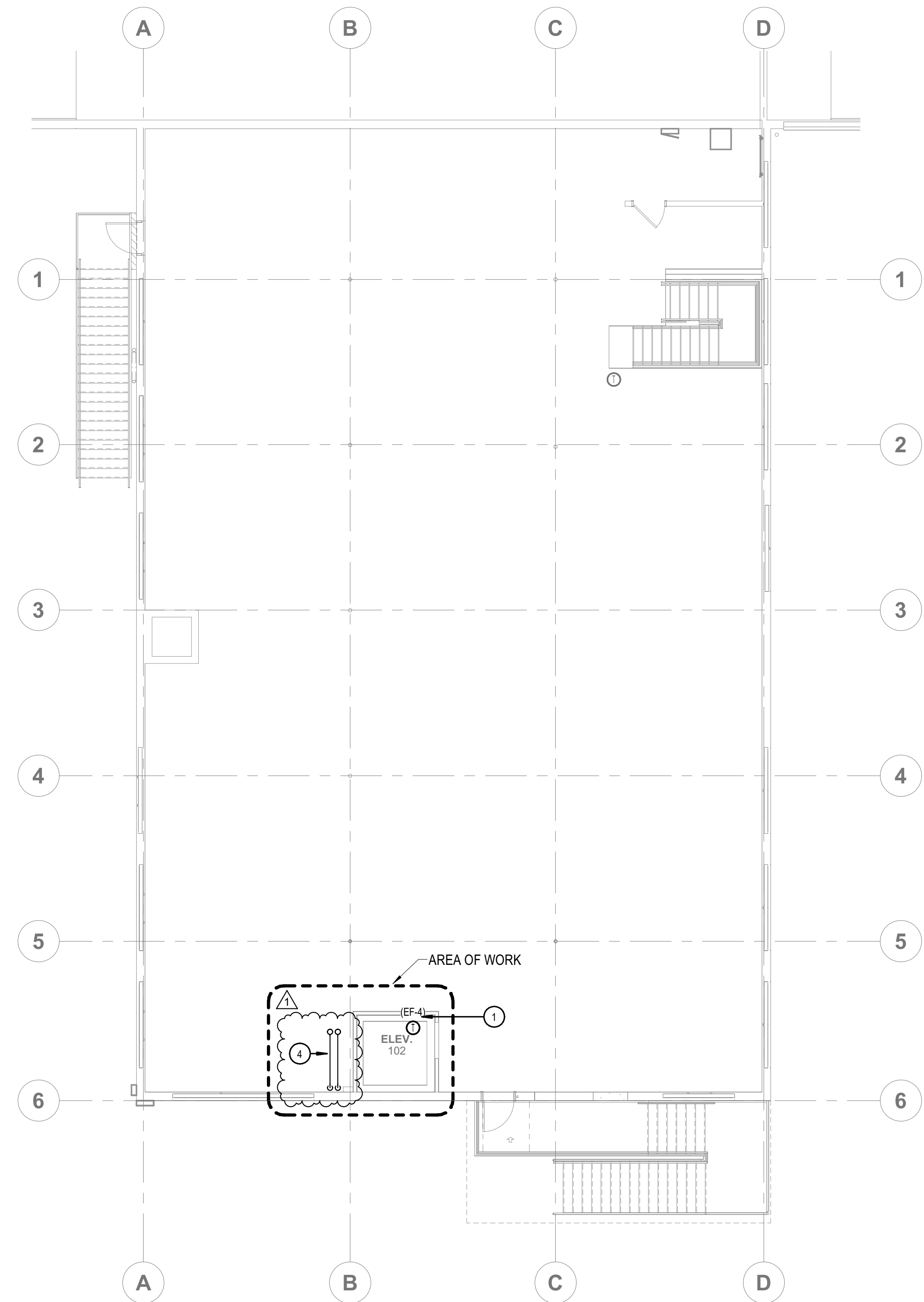
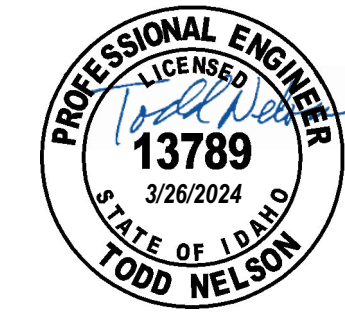
ITD DIST. 3 TENANT IMPROVEMENT
8150 West Chinden Boulevard
BOISE, ID
CSHOA

L2 TENANT IMPROVEMENT PERMIT SET

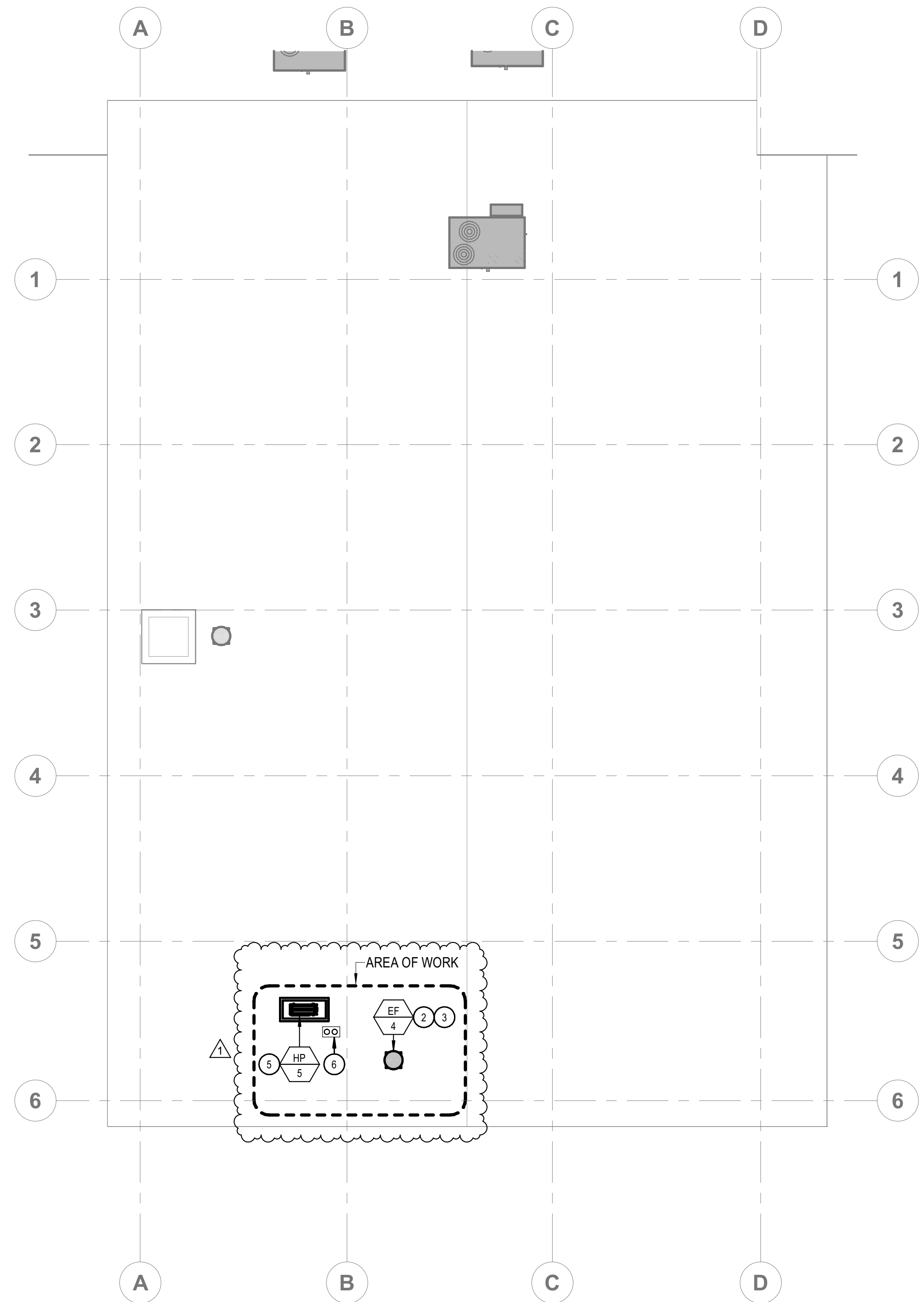
PROJECT 23002	DATE 02-20-24
DRAWN ED	CHECKED TN
REVISED 1 REVISION 1	3/27/2024

SHEET TITLE
HVAC FIRST FLOOR PLAN

SHEET
M11.1
 ORIGINAL SHEET SIZE
 24" x 36"



1 HVAC NEW SECOND FLOOR PLAN
 1/8" = 1'-0"



2 HVAC NEW ROOF PLAN PHASE 1
 1/8" = 1'-0"

KEYED NOTES:

- # SYMBOL USED FOR CALLOUT
- LOCATE THERMOSTAT AT TOP OF ELEVATOR SHAFT, PROVIDE WITH INSULATED BACKING.
 - ROUTE 10"X10" EXHAUST DUCT FROM EXHAUST FAN OPEN TO THE ELEVATOR SHAFT. PROVIDE WITH EXPANDED METAL GRATE AT OPENING. PROVIDE FLEXIBLE CONNECTOR AT EXHAUST FAN CONNECTION.
 - SEE EXHAUST FAN MOUNTING DETAIL FOR ADDITIONAL INFORMATION.
 - ROUTE REFRIGERANT LINES FROM FROM BELOW TO ROOF ABOVE TIGHT TO WALL. SEE FIRST FLOOR AND ROOF PLANS FOR CONTINUATION.
 - INSTALL NEW ROOF MOUNTED HEAT PUMP ON MIRO STAND 10' MINIMUM FROM EDGE OF ROOF. SEE DETAIL FOR INSTALLATION REQUIREMENTS.
 - PROVIDE AND ROUTE REFRIGERANT LINES THROUGH REFRIGERANT HOOD. SEE DETAIL FOR REQUIREMENTS.

ITD DIST. 3 TENANT IMPROVEMENT
8150 West Chinden Boulevard
BOISE, ID
 200 BROAD STREET
 BOISE, ID 83702
 (208) 343-4635 • FAX (208) 343-1658
 http://www.cshoa.com

CSHOA

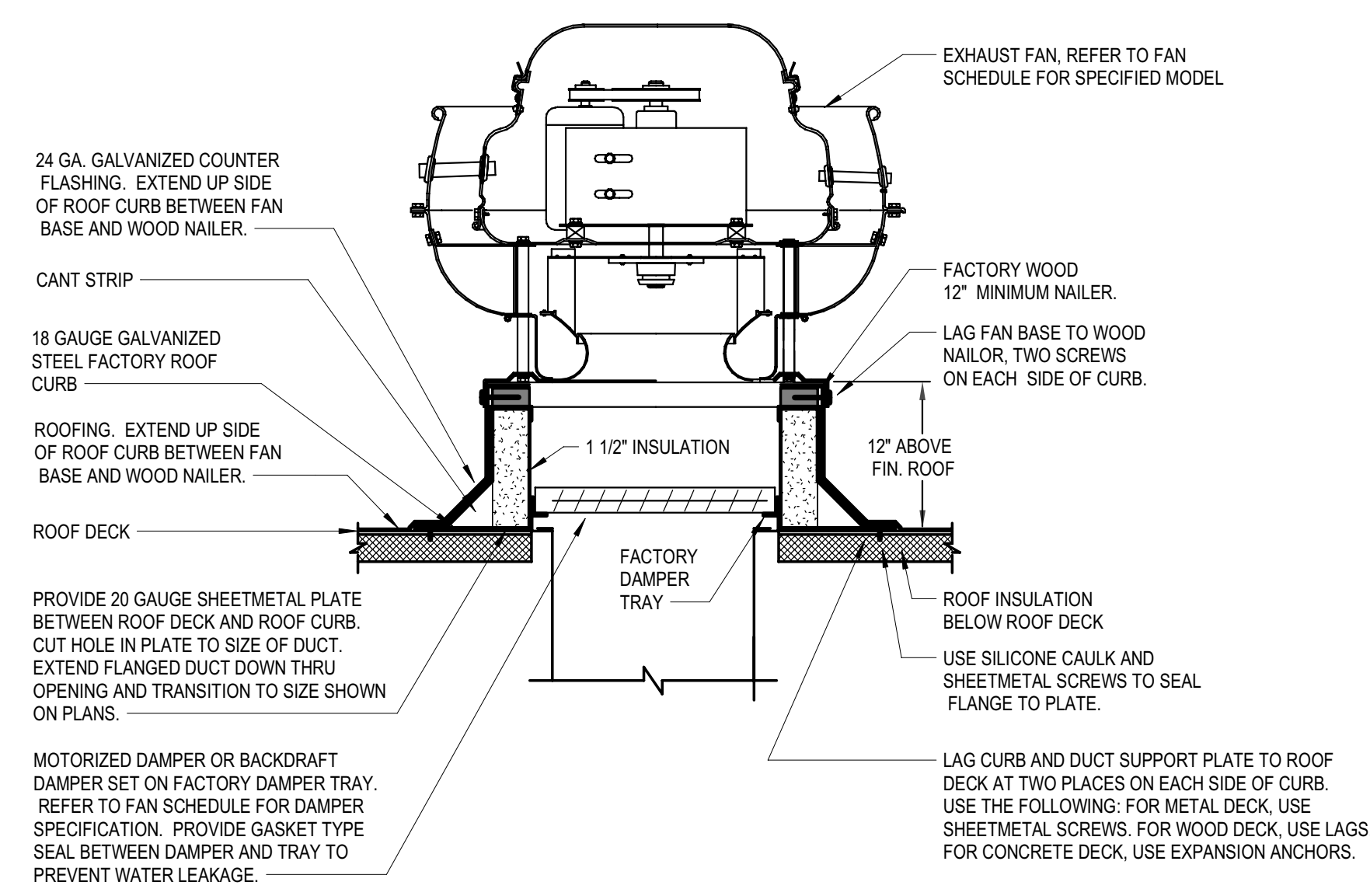
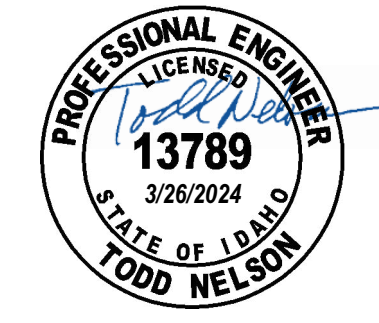
L2 TENANT IMPROVEMENT PERMIT SET

PROJECT 23002	DATE 02-20-24
DRAWN ED	CHECKED TN
REVISED 1 REVISION 1	3/27/2024

HVAC NEW FLOOR & ROOF PLAN

SHEET

M12.1
 ORIGINAL SHEET SIZE
 24" x 36"



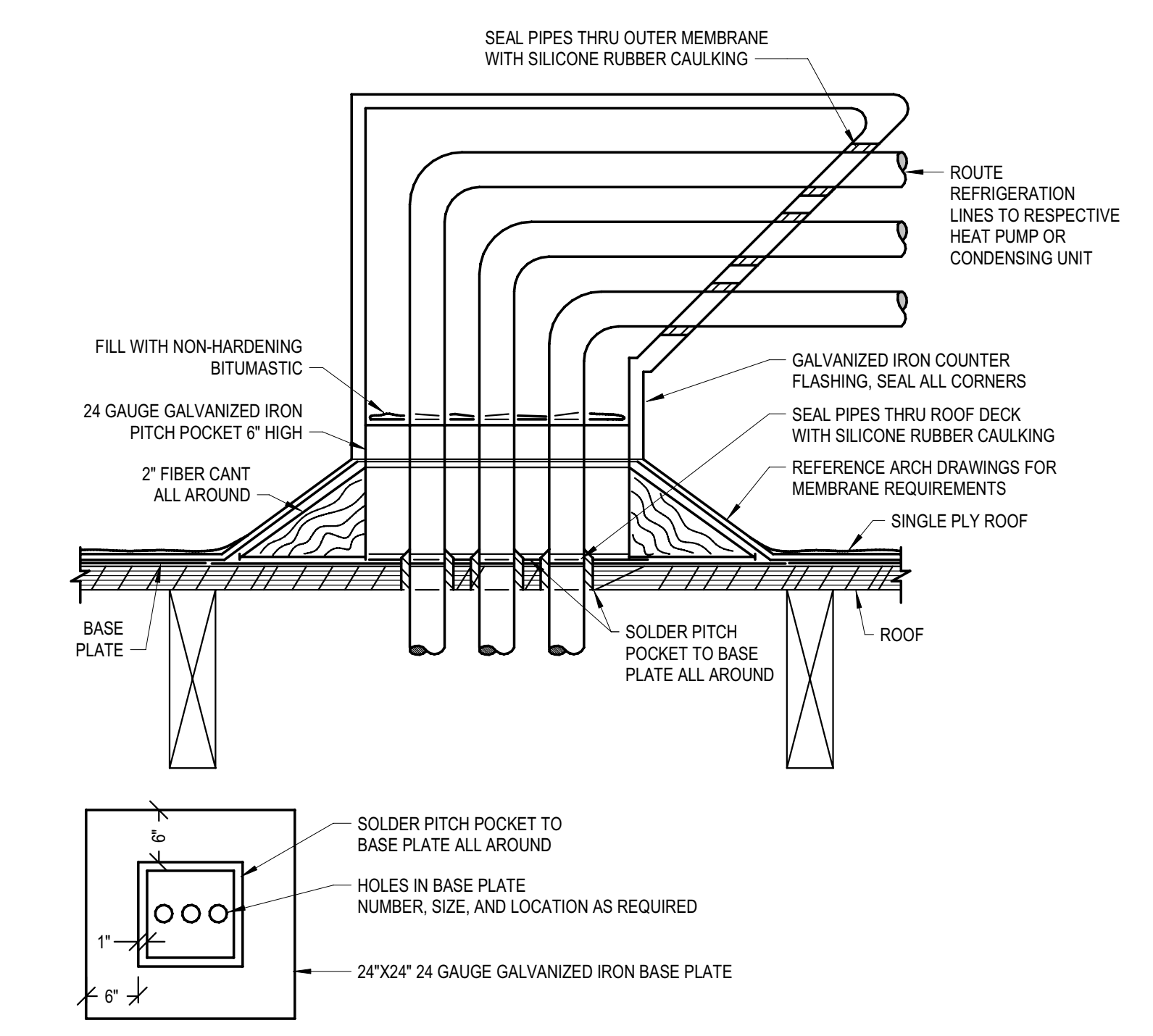
EXHAUST FAN SCHEDULE												
SYMBOL	AREA SERVED	UNIT TYPE	BLOWER				ELECTRICAL		MAXIMUM SONES	OPERATING WEIGHT (LBS)	MANUFACTURER AND MODEL	REMARKS
			CFM	ESP	MAXIMUM RPM	DRIVE	HP/W	V / Ø				
EF_1	ELEVATOR SHAFT	UPBLAST	400	0.45	1550	DIRECT	86W/125HP	115/1	8	150	COOK MODEL 90C15DH	1, 2, 3

- REMARKS:
- APPROVED ALTERNATE MANUFACTURERS: ACME, GREENHECK, PENNBARRY, TWIN CITY FAN COMPANY, SOLER & PALAU AND BARRY BLOWER.
 - PROVIDE UNIT WITH MANUFACTURER'S ROOF CURB W/ DAMPER TRAY AND MOTORIZED BACKDRAFT DAMPER, THERMAL OVERLOAD PROTECTION (120 VOLT ONLY), PRE-WIRED NEMA 3R ELECTRICAL DISCONNECT SWITCH, AND INTEGRAL BIRD SCREEN.
 - CONTROL FAN WITH HEAT RISE T-STAT.

DUCTLESS SPLIT HIGH WALL COOLING & HEATING UNIT SCHEDULE																	
SYMBOL	AREA SERVED	NOMINAL TONS	UNIT TYPE	SUPPLY FAN			COOLING REQUIRED AT 95°F OSA, 80°F EDB, 62°F EWB			HEATING REQUIRED AT 32°F OSA, 69°F EDB.		ELECTRICAL OUTDOOR UNIT			INDOOR/ OUTDOOR OPERATING WEIGHT (LBS)	MANUFACTURER AND MODEL	REMARKS
				CFM	WATTS	V / Ø	TOTAL MBH	SENSIBLE MBH	TOTAL MBH	MCA	MOCF	V / Ø	MINIMUM SEER / HSPF				
FC_5 - HP_5	ELEVATOR EQUIPMENT ROOM	1.5	HIGH WALL COOL/HEAT UNIT	306-524	30.0	THROUGH OUTDOOR UNIT	18.0	18.0	18.0	17.0	25.0	208 / 1	22.6 / 12.0	30 / 95	LENNOX INDOOR UNIT MODEL MVMC018 LENNOX OUTDOOR UNIT MODEL MPC018	1, 2, 3, 4, 5, 6	

- REMARKS:
- APPROVED ALTERNATE MANUFACTURERS: CARRIER, SAMSUNG, LG, DAIKIN, OR APPROVED EQUAL BY ENGINEER.
 - CONTROL UNIT WITH MANUFACTURER'S HARD-WIRED WALL MOUNTED 7 DAY PROGRAMMABLE THERMOSTAT WITH AUTO CHANGE OVER.
 - PROVIDE MANUFACTURER'S CRANKCASE HEATER, LOW AMBIENT CONTROLS & (TO -0°F COOLING & TO -0°F HEATING) WIND BAFFLES, REFRIGERATION LINE SET SIZED BY MANUFACTURER, AND TAMPER PROOF PORT CAPS.
 - PROVIDE WITH MIRO INDUSTRIES HEAVY DUTY MECHANICAL GALVANIZED ROOF SUPPORT WITH ADJUSTABLE SUPPORT LEGS. SUPPORT SHALL EXTEND A MINIMUM OF 6" BEYOND EQUIPMENT IN EACH DIRECTION. BOLT EQUIPMENT TO MECHANICAL SUPPORT.
 - PROVIDE WITH MANUFACTURER'S CONDENSATE PUMP, OR LITTLE GIANT MINI CONDENSATE PUMP. CONCEAL PUMP BEHIND UNIT WITHIN MOUNTING BRACKET ASSEMBLY. ELECTRICAL CIRCUIT FOR PUMP SHALL BE INTEGRATED TO FAN COIL.
 - ELECTRICAL TO PROVIDE DISCONNECT AND HEAT TRACE BENEATH UNIT AND TO ROOF DRAIN.

1 EXHAUST FAN MOUNTING DETAIL NTS



2 PIPING THROUGH ROOF DETAIL PH1 NTS

ITD DIST. 3 TENANT IMPROVEMENT
 8150 West Chinden Boulevard
 BOISE, ID



L2 TENANT IMPROVEMENT PERMIT SET

PROJECT 23002	DATE 02-20-24
DRAWN ED	CHECKED TN
REVISED 1 REVISION 1	3/27/2024

SHEET HVAC DETAILS & SCHEDULES

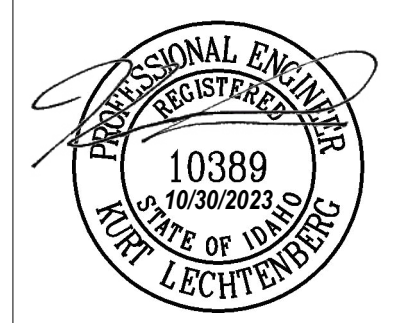
SHEET

M20.1
 ORIGINAL SHEET SIZE
 24" x 36"

200 BROAD STREET
 BOISE, ID 83702
 (208) 343-4635
 http://www.cshoa.com

200 BROAD STREET
 BOISE, IDAHO
 PHONE: 208-343-1658
 FAX: 208-343-1658

PROPERTY OF THE ARCHITECT/ENGINEER. THESE DRAWINGS AND SPECIFICATIONS SHALL BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED IN THE PROJECT TITLE. ANY REUSE OF THESE DRAWINGS OR SPECIFICATIONS FOR ANY OTHER PROJECT WITHOUT THE WRITTEN CONSENT OF CSHOA OR ITS AFFILIATES. Copyright © 2024



COMcheck Software Version 4.1.5.3
Interior Lighting Compliance Certificate

Project Information
 Energy Code: 2018 IECC
 Project Title: ITD DIST. 3 BLD. IMPROVEMENT
 Project Type: Alteration

Construction Site: 8150 West Chinden Boulevard, Garden City, ID 83714
 Owner/Agent: CHSQA, 200 Broad St, Boise, ID 83702, (208)343-4635
 Designer/Contractor: Musgrove Engineering, 234 S Whisperwood Way, Boise, ID 83709, (208)384-0585

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft ²)	C Allowed Watts / ft ²	D Allowed Watts (B X C)
1-Office	166	0.79	131
Total Allowed Watts =			131

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Office (166 sq.ft.) LED 1: VP1: Other:	1	4	13	54
Total Proposed Watts =				54

Interior Lighting PASSES

Interior Lighting Compliance Statement
 Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2018 IECC requirements in COMcheck Version 4.1.5.3 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Angelo Neglia - Electrical Designer
 Name - Title: Angelo Neglia
 Signature: *Angelo Neglia*
 Date: 10/26/2023

COMcheck Software Version 4.1.5.3
Exterior Lighting Compliance Certificate

Project Information
 Energy Code: 2018 IECC
 Project Title: ITD DIST. 3 BLD. IMPROVEMENT
 Project Type: Alteration
 Exterior Lighting Zone: 2 (Neighborhood business district (LZ2))

Construction Site: 8150 West Chinden Boulevard, Garden City, ID 83714
 Owner/Agent: CHSQA, 200 Broad St, Boise, ID 83702, (208)343-4635
 Designer/Contractor: Musgrove Engineering, 234 S Whisperwood Way, Boise, ID 83709, (208)384-0585

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts / Unit	D Tradable Wattage	E Allowed Watts (B X C)
Pedestrian and vehicular entrances and exits	3 ft of door	14	Yes	42
Total Tradable Watts (a) =				42
Total Allowed Watts =				42
Total Allowed Supplemental Watts (b) =				400

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
 (b) A supplemental allowance equal to 400 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Pedestrian and vehicular entrances and exits (3 ft of door width): Tradable Wattage LED 1: WP1: Other:	1	1	11	11
Total Tradable Proposed Watts =				11

Exterior Lighting PASSES

Exterior Lighting Compliance Statement
 Compliance Statement: The proposed exterior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2018 IECC requirements in COMcheck Version 4.1.5.3 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Angelo Neglia - Electrical Designer
 Name - Title: Angelo Neglia
 Signature: *Angelo Neglia*
 Date: 10/26/2023

ENERGY CODE COMMISSIONING COMPLIANCE NOTES

SECTION 408 SYSTEM COMMISSIONING

IT SHALL BE THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL BELOW NOTED DOCUMENTS WITHIN 90 DAYS OF CERTIFICATE OF OCCUPANCY:

A. **AS-BUILT DRAWINGS**- DRAWINGS SHALL INCLUDE THE LOCATION AND PERFORMANCE DATA OF ALL PIECES OF MECHANICAL EQUIPMENT.

B. **OPERATING AND MAINTENANCE MANUALS**- MANUALS SHALL INCLUDE THE FOLLOWING:

- SUBMITTAL DATA ON ALL PIECES OF EQUIPMENT REQUIRING MAINTENANCE.
- MANUFACTURER'S OPERATIONS AND MAINTENANCE DATA ON ALL PIECES OF EQUIPMENT. ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED.
- NAME AND ADDRESS AND PHONE NUMBER OF OF AT LEAST ONE (1) SERVICE PROVIDED.
- LIGHTING CONTROL SYSTEMS MAINTENANCE AND CALIBRATION INFORMATION INCLUDING WIRING DIAGRAMS, EQUIPMENT AND SYSTEM SCHEMATICS, AND CONTROL SEQUENCES OF OPERATIONS. DESIRED OR FIELD DETERMINED SETPOINTS SHALL BE PERMANENTLY RECORDED ON CONTROL DRAWINGS AT ALL CONTROL DEVICES, OR FOR DIGITAL CONTROL SYSTEMS, IN THE SYSTEM PROGRAMMING INSTRUCTIONS.
- A NARRATIVE ON HOW EACH LIGHTING SYSTEM IN INTENDED TO OPERATE, INCLUDING RECOMMENDED SETPOINTS.

C. **LIGHTING SYSTEM FUNCTIONAL TESTING REQUIREMENTS**

FUNCTIONAL TESTING - ALL AUTOMATIC LIGHTING CONTROL SYSTEM SHALL BE FULLY TESTED TO ENSURE THE CONTROL HARDWARE AND SOFTWARE ARE CALIBRATED, ADJUSTED, PROGRAMMED, AND IN PROPER WORKING CONDITION IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND MANUFACTURER'S INSTALLATION INSTRUCTIONS.

WHERE OCCUPANT SENSORS, TIME SWITCHES, PROGRAMMABLE CONTROLS, PHOTOSENSORS OR DAYLIGHTING CONTROLS ARE INSTALLED, THE FOLLOWING PROCEDURES SHALL BE PREFORMED:

- CONFIRM THAT THE PLACEMENT, SENSITIVITY AND TIME-OUT ADJUSTMENTS FOR OCCUPANT SENSORS YIELD ACCEPTABLE PERFORMANCE.
- CONFIRM THAT THE TIME SWITCHES AND PROGRAMMABLE SCHEDULE CONTROLS ARE PROGRAMMED TO TURN THE LIGHTS OFF.
- CONFIRM THAT THE PLACEMENT AND SENSITIVITY ADJUSTMENTS FOR PHOTOSENSOR CONTROLS REDUCE ELECTRIC LIGHT BASED ON THE AMOUNT OF USABLE DAYLIGHT IN THE SPACE AS SPECIFIED.

D. **FINAL LIGHTING SYSTEM FUNCTIONAL REPORT**: A REPORT OF TEST PROCEDURES AND RESULTS IDENTIFIED AS THE "FINAL LIGHTING CONTROL REPORT" SHALL BE DELIVERED TO THE BUILDING OWNER. THE REPORT SHALL INCLUDE THE FOLLOWING:

- LIST OF FUNCTIONAL TESTS USED DURING THE COMMISSIONING PROCESS ON EACH PIECE OF EQUIPMENT.
- RESULTS OF ALL FUNCTIONAL TESTS ON ALL PIECES OF EQUIPMENT.
- LIST OF DEFICIENCIES FOUND AND CORRESPONDING CORRECTIVE MEASURES EITHER IMPLEMENTED OR PROPOSED ON EACH PIECE OF EQUIPMENT.
- LIST OF EQUIPMENT NOT ABLE TO BE FUNCTIONALLY TESTED DUE TO CURRENT CLIMATE CONDITIONS. THESE PIECES OF EQUIPMENT WILL FUNCTIONALLY TESTED ONCE CLIMATE CHANGES ALLOW.

ITD DIST. 3 BLDG. IMPROVEMENT
BOISE, ID
 8150 West Chinden Boulevard
CSHOA

200 BROAD STREET
 BOISE, ID 83702
 (208) 343-4635 • FAX (208) 343-1658
 http://www.cshoa.com

BUILDING IMPROVEMENT PERMIT SET

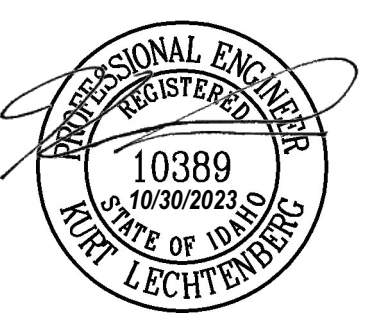
PROJECT 23002	DATE 10-30-23
DRAWN AN	CHECKED KL

REVISED

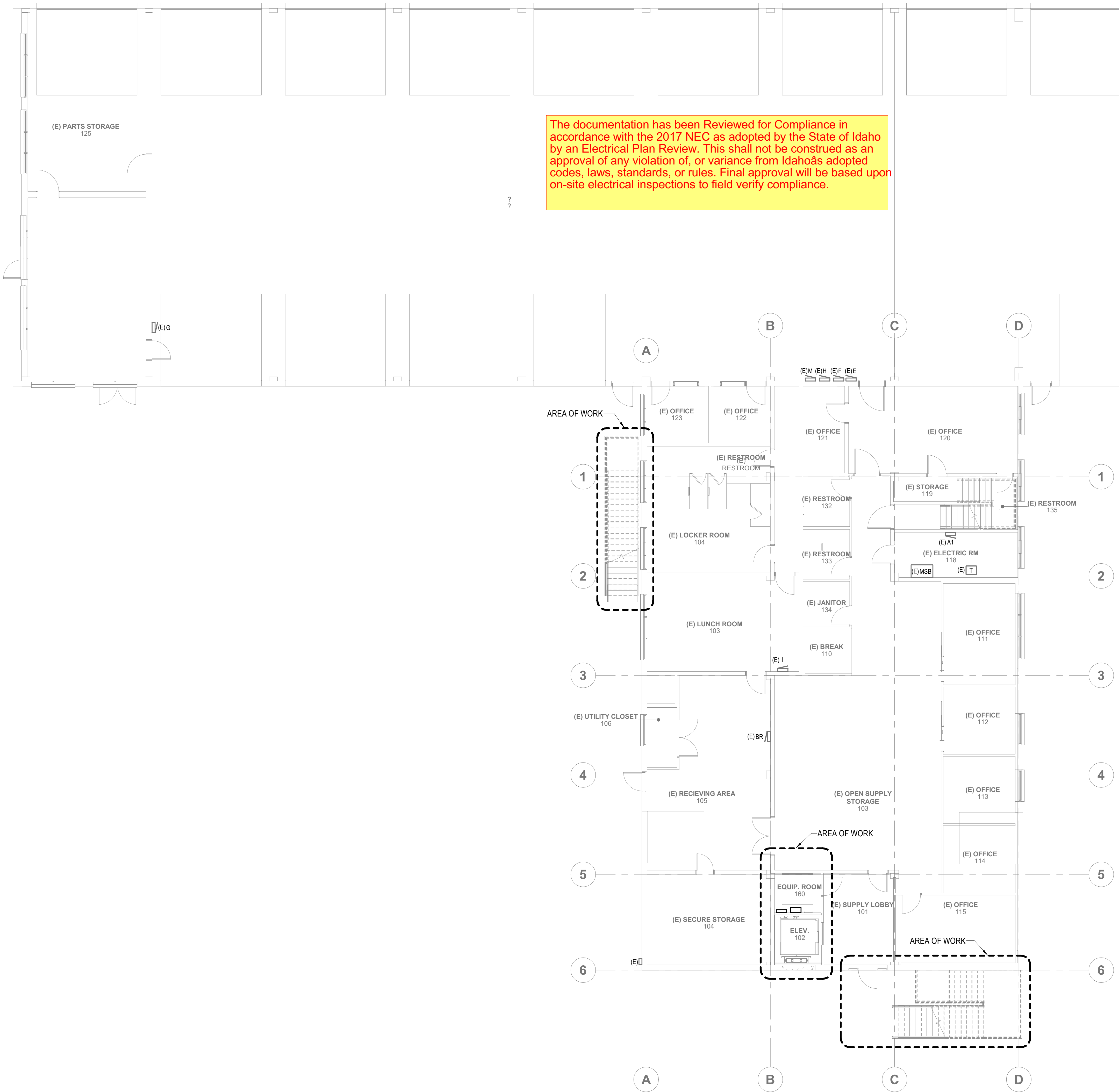
SHEET TITLE
LIGHTING COMPLIANCE

SHEET

E01.1
 ORIGINAL SHEET SIZE
 24" x 36"



The documentation has been Reviewed for Compliance in accordance with the 2017 NEC as adopted by the State of Idaho by an Electrical Plan Review. This shall not be construed as an approval of any violation of, or variance from Idaho's adopted codes, laws, standards, or rules. Final approval will be based upon on-site electrical inspections to field verify compliance.



1 ELECTRICAL OVERALL FIRST FLOOR PLAN
 1/8" = 1'-0"

ITD DIST. 3 BLDG. IMPROVEMENT
8150 West Chinden Boulevard
BOISE, ID
CSHOA

BUILDING IMPROVEMENT PERMIT SET

PROJECT 23002	DATE 10-30-23
DRAWN AN	CHECKED KL

ELECTRICAL OVERALL PLAN

E10.1
 ORIGINAL SHEET SIZE
 24" x 36"

200 BROAD STREET
 BOISE, IDAHO
 PHONE 208-343-4635 • FAX 208-343-1658
 WWW.CSHOA.COM
 THE INFORMATION CONTAINED HEREIN IS THE PROPERTY OF THE ARCHITECT/ENGINEER AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT/ENGINEER WHETHER OR NOT THESE DRAWINGS AND SPECIFICATIONS SHALL BE USED FOR ANY OTHER PROJECTS. IN ADDITION TO THIS PROJECT, OR FOR ANY OTHER PROJECTS, WITHOUT THE WRITTEN CONSENT OF CSHOA OR ITS AFFILIATES.
 Copyright © 2023



200 BROAD STREET
 BOISE, IDAHO
 PHONE: 208-343-4635 • FAX: 208-343-1658
 THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF THE ARCHITECT/ENGINEER. NO PART OF THESE DRAWINGS AND SPECIFICATIONS SHALL BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT THE WRITTEN CONSENT OF CSH&A OR ITS AFFILIATES.
 Copyright © 2022

ITD DIST. 3 TENANT IMPROVEMENT
 8150 West Chinden Boulevard
 GARDEN CITY, ID
 200 BROAD STREET
 BOISE, ID 83702
 (208) 343-4635 • FAX (208) 343-1658
 http://www.cshqa.com

CSH&A

L2 TENANT
 IMPROVEMENT
 PERMIT
 SET

PROJECT 23002	DATE 03-27-24
DRAWN AN	CHECKED KL
REVISED 1 REVISION 1	3/27/2024

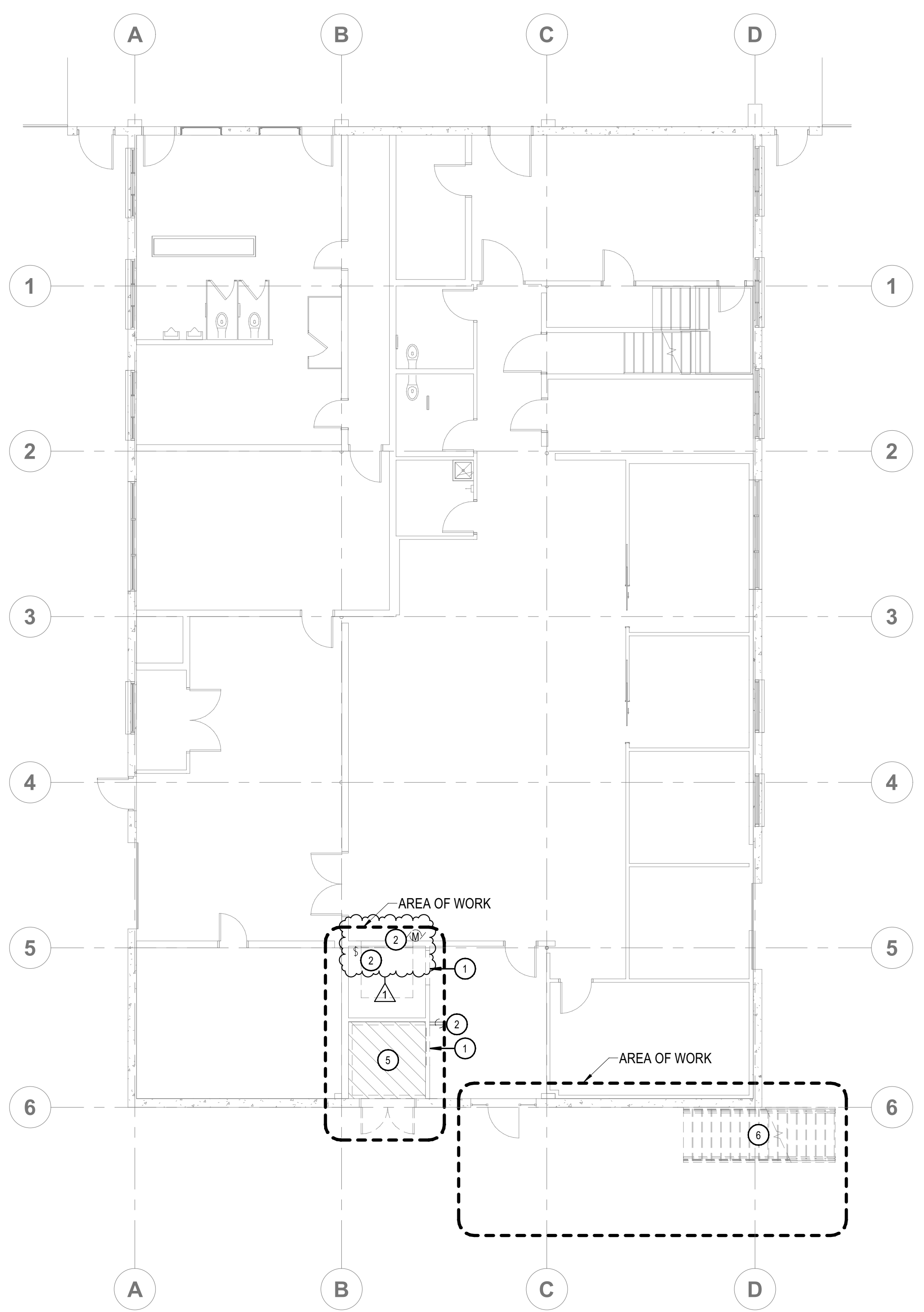
ELECTRICAL
 DEMO FLOOR
 PLANS

SHEET

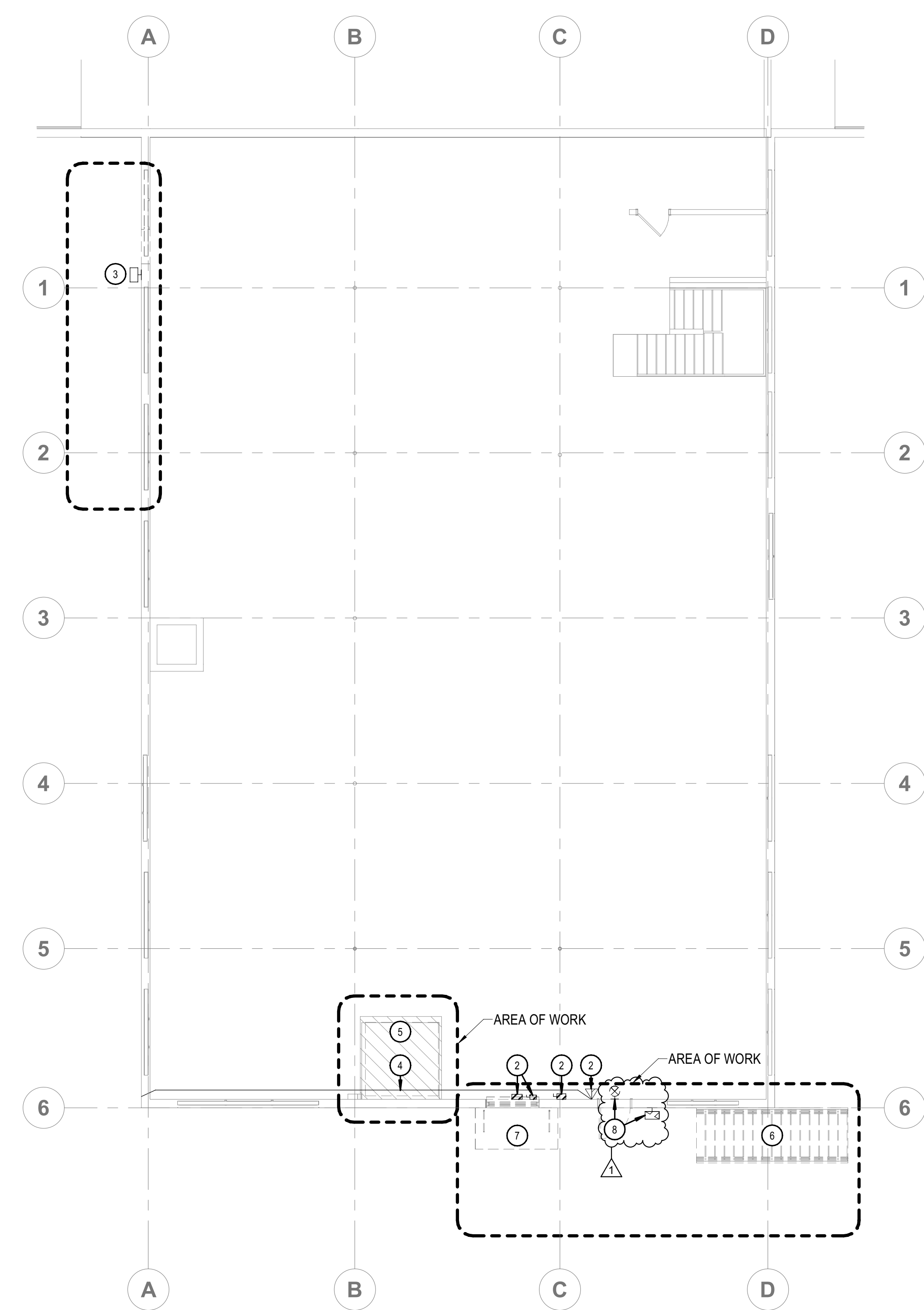
E21.1
 ORIGINAL SHEET SIZE
 24" x 36"

KEYED NOTES:

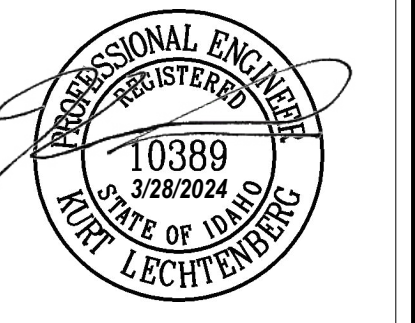
- ⊕ SYMBOL USED FOR CALLOUT
- 1. EXISTING WALL TO BE REMOVED. REMOVE ALL EXISTING DEVICES AND JUNCTION BOXES. RE-ROUTE CONDUIT AND CONDUCTORS AS REQUIRED TO MAINTAIN POWER TO ALL DOWN STREAM DEVICE THAT ARE EXISTING TO REMAIN.
- 2. EXISTING DEVICES TO BE REMOVED. REMOVE ALL CONDUIT, CONDUCTORS, AND JUNCTION BOXES BACK TO SOURCE OR NEAREST UPSTREAM DEVICE THAT IS TO REMAIN. MAINTAIN CONTINUITY TO ALL DOWNSTREAM DEVICES THAT ARE TO REMAIN.
- 3. EXISTING LIGHT FIXTURE TO BE REMOVED, REPLACED, AND RE-CIRCUITED FROM DIFFERENT LOCATION. JUNCTION BOX AT LIGHT FIXTURE TO REMAIN. REMOVE ALL CONDUIT, CONDUCTORS, AND JUNCTION BOXES BACK TO SOURCE OR NEAREST UPSTREAM DEVICE THAT IS TO REMAIN. MAINTAIN CONTINUITY TO ALL DOWNSTREAM DEVICES THAT ARE TO REMAIN. RE: SECOND FLOOR ELECTRICAL PLAN.
- 4. EXISTING CABLING DATA CABLING RUNS ALONG THE SOUTH WALL AT THE CEILING. CABLING TO BE RE-ROUTED AND EXTENDED AS REQUIRED AROUND THE NEW ELEVATOR SHAFT. COORDINATE WITH IDAHO TRANSPORTATION DEPARTMENT I.T. STAFF IN REMOVAL AND RE-ROUTING OF CABLING. RE-ROUTE ALL CONDUIT AND CONDUCTORS AS REQUIRED TO MAINTAIN CONNECTIVITY TO ALL DOWNSTREAM DEVICES THAT ARE EXISTING TO REMAIN.
- 5. EXISTING WALL, FLOOR, AND CEILING TO BE REMOVED IN PREPARATION FOR NEW ELEVATOR SHAFT. REMOVE EXISTING LIFT AND ALL CONDUIT, CONDUCTORS, AND JUNCTION BOXES BACK TO SOURCE OR NEAREST UPSTREAM DEVICE THAT IS TO REMAIN. RE-ROUTE CONDUIT AND CONDUCTORS AS REQUIRED TO MAINTAIN POWER TO ALL DOWN STREAM DEVICE THAT ARE EXISTING TO REMAIN.
- 6. EXISTING EXTERIOR STAIRS TO BE REMOVED. REFER TO ARCHITECTURAL DEMOLITION PLANS FOR MORE INFORMATION.
- 7. EXISTING EXTERIOR CANOPY TO BE REMOVED. REFER TO ARCHITECTURAL DEMOLITION PLANS FOR MORE INFORMATION.
- ⚠ 8. EXISTING LIGHT FIXTURE TO BE REMOVED AND RELOCATED. RELIGHTING PLAN FOR NEW LOCATIONS. MAINTAIN FUNCTIONALITY OF ALL DOWN STREAM DEVICES. REMOVE UNUSED CONDUIT, CONDUCTORS, AND J-BOXES.



2 ELECTRICAL DEMO FIRST FLOOR PLAN
 1/8" = 1'-0"



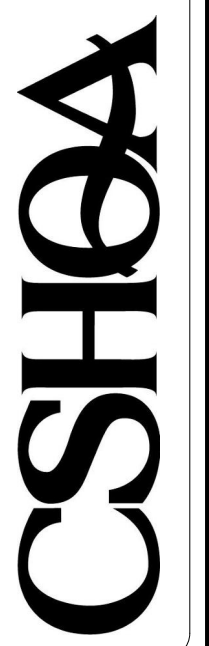
1 ELECTRICAL DEMO SECOND FLOOR PLAN
 1/8" = 1'-0"



200 BROAD STREET
 BOISE, IDAHO
 PHONE: 208-343-4635 • FAX: 208-343-1658
 THESE DRAWINGS AND SPECIFICATIONS ARE TO REMAIN THE PROPERTY OF THE ARCHITECT/ENGINEER UNLESS OTHERWISE NOTED. THESE DRAWINGS AND SPECIFICATIONS SHALL NOT BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN CONSENT OF CSH&A. © 2022

ITD DIST. 3 TENANT IMPROVEMENT
8150 West Chinden Boulevard
GARDEN CITY, ID

200 BROAD STREET
 BOISE, ID 83702
 (208) 343-4635 • FAX (208) 343-1658
 http://www.cshqa.com



L2 TENANT IMPROVEMENT PERMIT SET

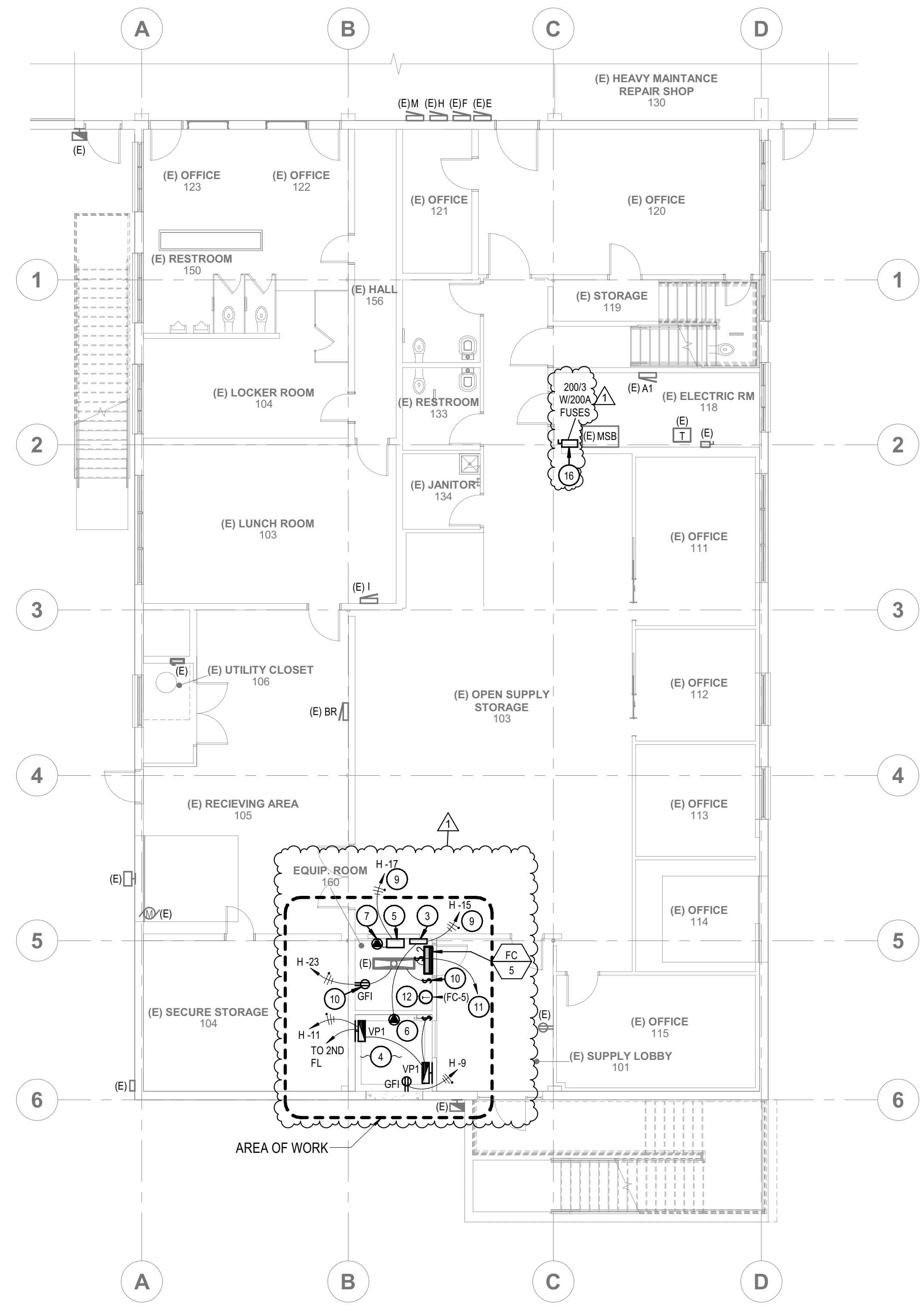
PROJECT 23002	DATE 03-27-24
DRAWN AN	CHECKED KL
REVISED 1 REVISION 1	3/27/2024

ELECTRICAL FLOOR PLANS

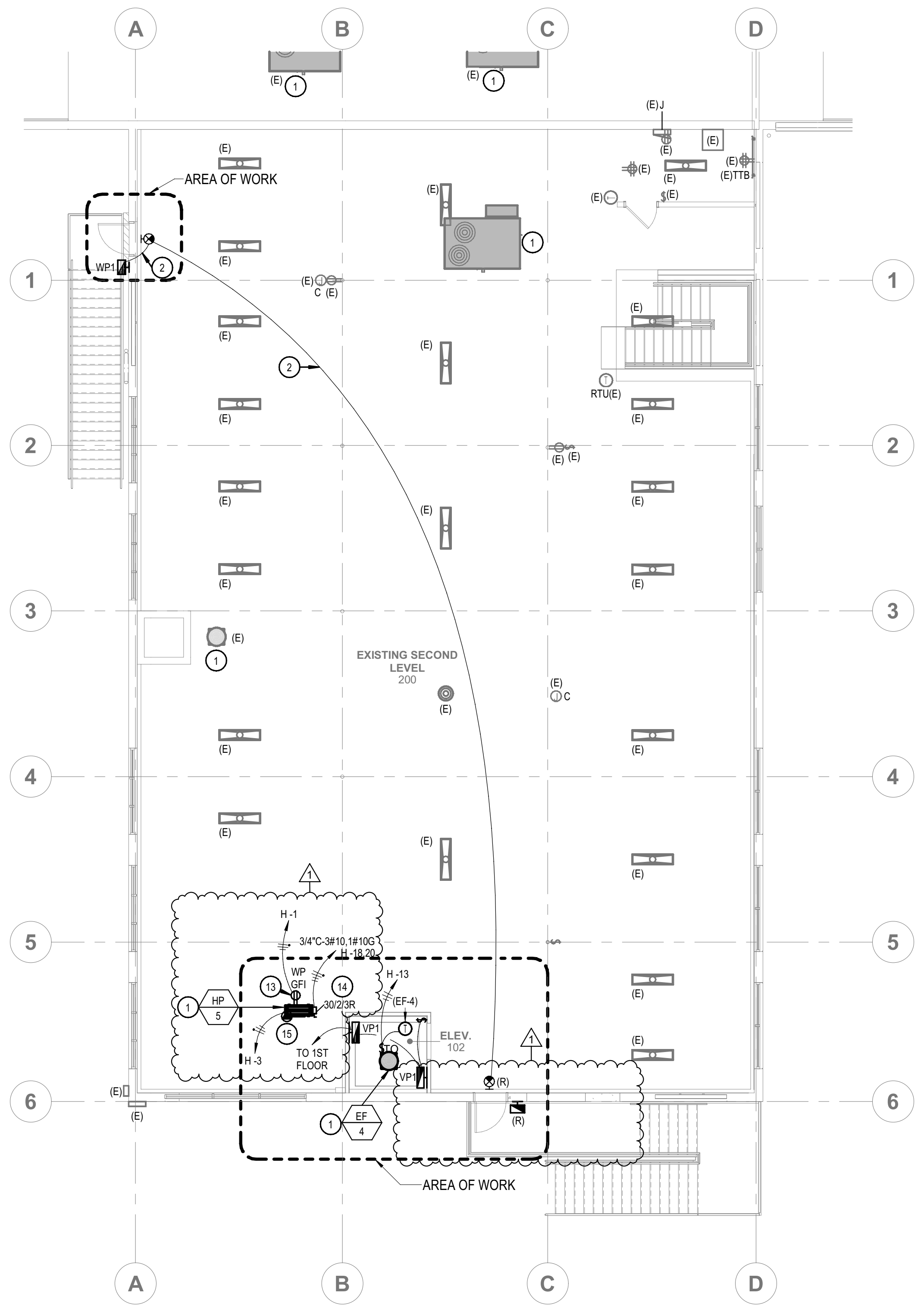
SHEET
E31.1
 ORIGINAL SHEET SIZE
 24" x 36"

KEYED NOTES:

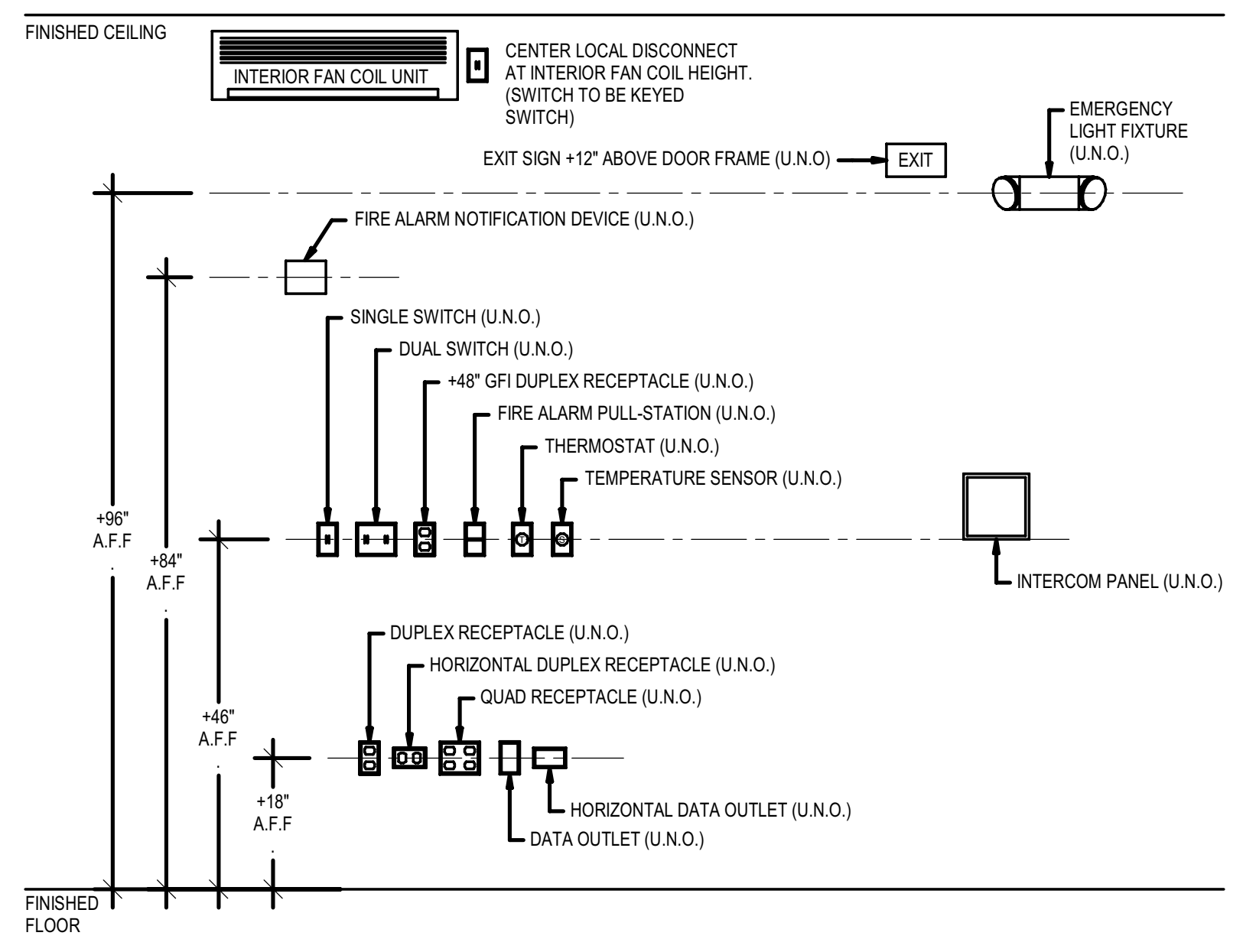
- SYMBOL USED FOR CALLOUT
- EQUIPMENT LOCATED ON ROOF.
- EXTEND CONDUIT AND CONDUCTORS FROM EXISTING LIGHTING CIRCUIT AS INDICATED. EXTEND AN UNSWITCHED LEG OF THE LIGHTING CIRCUIT TO THE INTEGRAL EMERGENCY BATTERY WHERE INDICATED.
- PROVIDE LOCKABLE NEMA ENCLOSURE WITH 15 AMP BREAKER FOR ELEVATOR CAR LIGHTS/CONVENIENCE RECEPTACLES AND 25 AMP BREAKER FOR MECHANICAL UNIT HP-5. ROUTE CIRCUIT FOR MECHANICAL UNIT HP-5 LOCATED ON ROOF THROUGH OVERCURRENT DEVICE LOCATED IN ELEVATOR EQUIPMENT ROOM THEN TO CIRCUIT INDICATED. RE-ELECTRICAL SECOND FLOOR PLAN. COORDINATE REQUIREMENTS WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.
- ALL CONDUIT, JUNCTION BOXES, AND DEVICES TO BE MOUNTED +5" ABOVE PIT FLOOR. ANY CONDUIT, JUNCTION BOXES, AND DEVICES MOUNTED BELOW +4" SHALL BE NEMA 4 RATED.
- ELEVATOR BUSSMAN CONTROL MODULE. RE-PARTIAL ONE-LINE DIAGRAM.
- CONNECTION FOR ELEVATOR LIGHTS AND RECEPTACLES. COORDINATE REQUIREMENTS WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.
- CONNECTION FOR ELEVATOR CONTROLLER. COORDINATE REQUIREMENTS WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.
- PROVIDE RED HANDLED LOCKABLE TYPE CIRCUIT BREAKER IN PANEL AT POSITION INDICATED.
- REMOVE LIGHT AND SWITCH IN EQUIP. RM 160 FROM EXISTING CIRCUIT AND RE-CIRCUIT TO DEDICATED RECEPTACLE CIRCUIT IN THIS SPACE. CONNECT SUCH THAT RECEPTACLE GFCI TRIP DOES NOT TURN OFF LIGHTS.
- PROVIDE AND INSTALL LINE VOLTAGE AND CONTROL CABLE TO THE CORRESPONDING OUTDOOR UNIT. COORDINATE REQUIREMENTS WITH THE MECHANICAL CONTRACTOR.
- 1/2" CONDUIT TO CORRESPONDING MECHANICAL UNIT, BOX, CONDUIT, AND CONDUCTORS TO BE PROVIDED BY ELECTRICAL CONTRACTOR. LEAVE 12" SLACK AT BOX AND MECHANICAL UNIT. MECHANICAL CONTRACTOR TO MAKE FINAL CONNECTIONS. COORDINATE BOX SIZE, QUANTITY OF CONDUCTOR(S), AND EXACT LOCATION WITH MECHANICAL CONTRACTOR.
- MOUNT RECEPTACLE ON RIGID CONDUIT 12" ABOVE ROOF DECK OR ON MECHANICAL UNIT WHERE APPLICABLE.
- MOUNT RECEPTACLE ON RIGID CONDUIT 12" ABOVE ROOF DECK OR ON MECHANICAL UNIT WHERE APPLICABLE.
- PROVIDE AND INSTALL HEAT TAPE AROUND THE BASE OF THE HEAT PUMP AND ROUTE TO NEAREST GUTTER, AND DOWNSPOUT TO GRADE. WRAP AROUND THE BASE OF THE UNIT. UTILIZE 12WFT REYCHEM ICESSTOP HEAT TAPE OR EQUAL. PROVIDE AND INSTALL 1 PENTAIR AMC-1A TEMPERATURE CONTROL UNIT PER CIRCUIT. COORDINATE THE INSTALLATION WITH THE MECHANICAL CONTRACTOR.
- FUSED DISCONNECT FOR ELEVATOR. RE- PARTIAL ONE-LINE DIAGRAM.



1 ELECTRICAL FIRST FLOOR PLAN
 1/8" = 1'-0"



2 ELECTRICAL SECOND FLOOR PLAN
 1/8" = 1'-0"



DETAIL GENERAL NOTES:
1. PROVIDE FRAMING AS REQUIRED.

1 STANDARD MOUNTING HEIGHTS - PHASE 1

LIGHTING FIXTURE SCHEDULE - PHASE 1									
TYPE MARK	DESCRIPTION	MOUNTING	WATTAGE	LAMP	MANUFACTURER	MODEL	OR EQUAL BY	NOTES	
EX1	THERMOPLASTIC EXIT SIGN WITH GREEN LETTERING, NICKEL CADMIUM BATTERY AND SELF DIAGNOSTICS	+8-0\"/>							

LIGHTING FIXTURE SCHEDULE NOTES - PHASE 1
1. SUBSTITUTIONS WILL BE ALLOWED IF SUBMITTED PRIOR TO BID DATE BY THE GREATER OF 7 BUSINESS DAYS OR THE TIME PERIOD SPECIFIED BY DIVISION 1 SPECIFICATIONS, AND IF DEEMED EQUAL BY THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING SUBSTITUTED FIXTURES MEET OR EXCEED THE SPECIFICATIONS OF THE FIXTURES SPECIFIED.

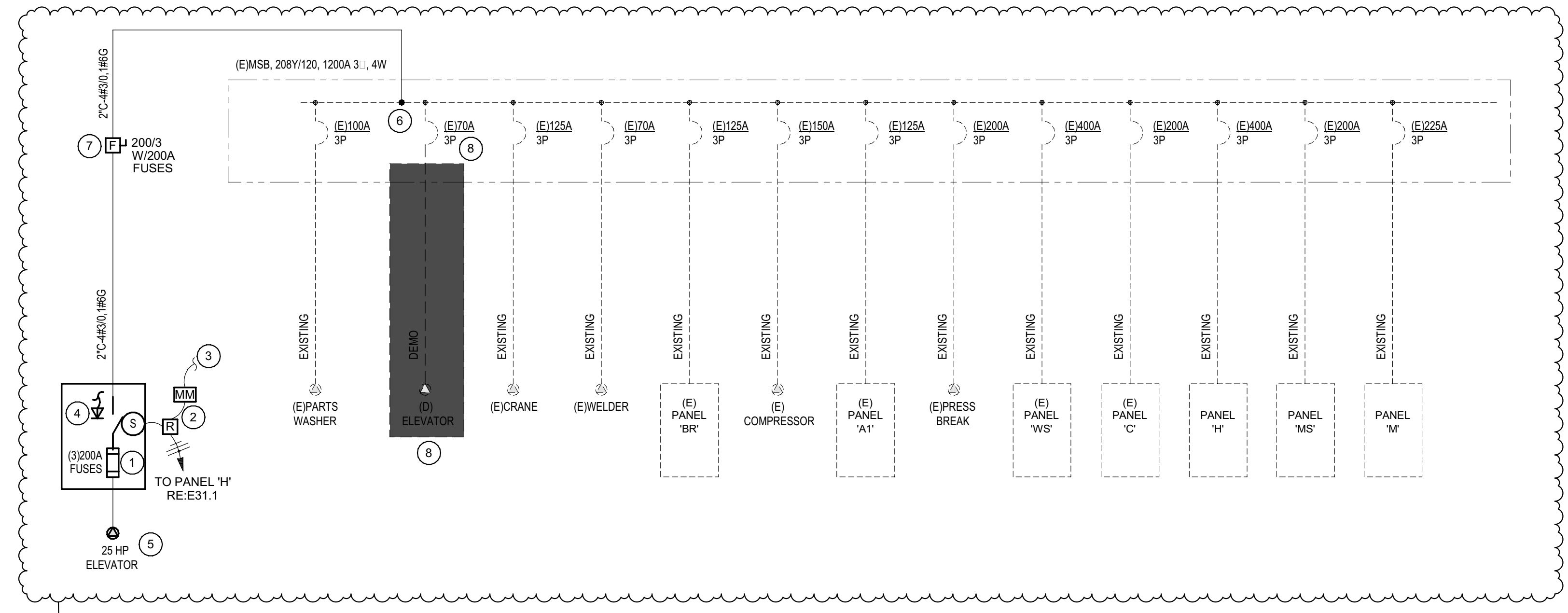
Branch Panel: H														
Location: P17					Volts: 120/208 Wye					A.I.C. Rating: EXISTING				
Supply From:					Phases: 3					Mains Type: 400A				
Mounting: Surface					Wires: 4					Mains Rating: 400 A				
Enclosure: Type 1										MCB Rating: MBR				
Notes: 1)EXISTING BREAKER; 2)NEW BREAKER; 3)RED HANDLED, LOCKABLE BREAKER; 4)GFPEP (30mA) FOR EQUIPMENT PROTECTION														
CKT	Circuit Description	Note	Trip	Poles	A	B	C	Poles	Trip	Note	Circuit Description	CKT		
1	REC-ROOF (HP-5)	2	20 A	1	180 VA	0 VA					(E)PANEL 'G'	2		
3	HEAT TAPE (HP-5), ROOF	2,4	20 A	1		660 VA	0 VA					4		
6	Space							0 VA	0 VA			6		
7					0 VA	0 VA				3	15 A	1	EXISTING	8
9	REC-ELEVATOR SHAFT/PIT	1	20 A	1		180 VA	0 VA					10		
11	LTS-ELEVATOR SHAFT/PIT	1	20 A	1				136 VA	0 VA			12		
13	EF-4, ROOF	1	20 A	1	120 VA	0 VA				1	20 A	2,3	FACP, FIRE RISER ROOM.	14
15	LTS/REC-ELEVATOR	2,3	20 A	1		360 VA	0 VA			20 A	2,3	1	EXISTING	16
17	ELEVATOR SHUNT TRIP	2,3	20 A	1				0 VA	1768 VA	2	25 A	2	HP-5, ROOF	18
19	(E)PANEL 'J'	1	60 A	2	0 VA	1768 VA								20
21					0 VA	250 VA				20 A				22
23	REC-EQUIP. RM 160	1	20 A	1				180 VA	250 VA					24
25	HP-1, ROOF	2	45 A	2	3120 VA	900 VA				1	20 A	2,4	HEAT TAPE (HP-4)	26
27						3120 VA	900 VA			1	20 A	2,4	HEAT TAPE (HP-1)	28
29	HP-2, ROOF	2	45 A	2				3120 VA	1200 VA	1	20 A	2,4	HEAT TAPE (HP-2/3)	30
31					3120 VA	0 VA				1	20 A	1	Spare	32
33	HP-3, ROOF	2	25 A	2		1768 VA	0 VA			1	20 A	1	Spare	34
35								1768 VA	--	1	--	--	Space	36
37	HP-4, ROOF	2	20 A	2	1352 VA	9485 VA				3	100 A	2	PANEL 'A'	38
39						1352 VA	8115 VA			--	--	--		40
41	Space			1				--	8931 VA	--	--	--		42
Total Load:					20035 VA	16694 VA	17314 VA							
Total Amps:					168 A	139 A	145 A							

GENERAL NOTES:

- CONDUIT, CONDUCTORS AND AIC CALCULATIONS FOR ALL SERVICE, PANEL AND EQUIPMENT FEEDERS INDICATED ON THE ONE-LINE HAVE BEEN SIZED BASED ON COPPER. THE CONTRACTOR MAY USE COMPRESSED ALUMINUM CONDUCTORS FOR THESE FEEDERS PROVIDING THE CONDUIT, CONDUCTOR SIZES AND AIC CALCULATIONS ARE ADJUSTED AS REQUIRED TO MEET ALL NATIONAL ELECTRICAL CODE REQUIREMENTS.
- FURNISH AND INSTALL ENGRAVED LABEL ON THE FRONT OF ALL ELECTRICAL EQUIPMENT NOTING THE AVAILABLE FAULT CURRENT VALUE SHOWN.

KEYED NOTES:

- # SYMBOL USED FOR NOTE CALLOUT.
- PROVIDE BUSSMAN POWER MODULE, OR APPROVED EQUAL SWITCH SIZED AS REQUIRED WITH CONTROL TRANSFORMER, FIRE SAFETY INTERFACE, FIRE ALARM VOLTAGE MONITORING RELAY, KEYPAD TEST SWITCH, RED INDICATOR LAMP, MECHANICALLY INTERLOCKED AUXILIARY NO/NC CONTACTS, AND CLASS J FUSES SIZED AS REQUIRED. VERIFY THE POWER MODULE AND THE FUSE RATING WITH THE ELEVATOR SUPPLIER PRIOR TO ORDERING THE EQUIPMENT. RE: ELECTRICAL FIRST AND SECOND FLOOR PLANS.
 - PROVIDE RELAY AND MONITOR MODULE TO MONITOR POWER TO SHUNT TRIP BREAKER. RE: PANEL 'H' SCHEDULE.
 - CONNECT TO FIRE ALARM SYSTEM. COORDINATE WITH FIRE ALARM CONTRACTOR TO PROVIDE ALL COMPONENTS FOR A COMPLETE SYSTEM.
 - 3/4\"/>
 - COORDINATE ELEVATOR MOTOR RATING AND OVER-CURRENT REQUIREMENTS WITH ELEVATOR SUPPLIER PRIOR TO ORDERING EQUIPMENT. DESIGN BASED ON 25HP HYDRAULIC ELEVATOR.
 - TAP EXISTING DISTRIBUTION BOARD BUSSING FOR FEEDERS TO NEW ELEVATOR. RE:E31.1
 - PROVIDE NEW DISCONNECT WITHIN 10-FEET OF THE DISTRIBUTION BOARD BUSS TAP.
 - DISCONNECT AND REMOVE EXISTING ELEVATOR CONDUIT, BOXES, AND FEEDERS. MARK EXISTING BREAKER AS SPARE.



2 PARTIAL ONE-LINE DIAGRAM

ITD DIST. 3 TENANT IMPROVEMENT
8150 West Chinden Boulevard
GARDEN CITY, ID
CSHOA

L2 TENANT IMPROVEMENT PERMIT SET

PROJECT	DATE
23002	03-27-24
DRAWN	CHECKED
AN	KL
REVISED	
1 REVISION 1	3/27/2024

ELECTRICAL DETAILS AND SCHEDULES

SHEET

E80.1
ORIGINAL SHEET SIZE
24" x 36"