ITD D3 TRAINING ADDTION

8150 W CHINDEN BLVD

GARDEN CITY, IDAHO

ABBREVIATIONS

PERPENDICULAR HEATING VENTIL ATING AND AIR DIAMETER NUMBER INSULATION EXISTING INTERIOR **JANITOR** RENOVATE OR RELOCATED KNOCKOUT AIR CONDITIONING A.D.A.A.C AMERICAN'S WITH DISABILITIES AC LOW POINT ABOVE FINISH FLOOR LAMINATE AIRLINES OPERATION ARE LAVATORY POUNDS MACHINE BOLT ACOUSTICAL ADJUSTABLE MASONRY OPENING AGGREGATE **ALTERNATIVE** ALUMINUM MANUFACTURER MISCELLANEOUS BOTTOM OF BASE OF CURB NOT IN CONTRACT BUILT-UP NEAR SIDE BOARD NOT TO SCALE BUILDING NUMBER BLOCK NOMINAL OVER ALL ON CENTER CATCH BASIN OUTSIDE DIAMETER CENTER TO CENTER CAST IRON OPEN TO STRUCTURE CAST IN PLACE CONCRETE MASONRY UNIT C.M.U. OVERHEAD OFFICE OPENING COLD WATER OPPOSITE CABINET PLASTIC LAMINATE CUBIC FEET/MINUTE P.T.D. PAPER TOWEL DISPENSER PROPERTY LINE COUNTERSUNK PARTICLE PLATE PLUMB. PLUMBING CONCRETE PLYWD. PLYWOOD CONTINUOUS PRE-ENGINEERED CORRIDOR COORDINATE WITH PAVEMENT QUARRY TILE DEFORMED BAR ANCHOR RADIUS OR RISER ROOF DRAIN ROUGH OPENING DRY STANDPIPE RAIN WATER LEADER REFERENCE (CW/) DIAMETER DIAGONAL REQUIRED DIMENSION SOLID CORE **EXPANSION BOLT** SEAT COVER DISPENSER **EXTERIOR INSULATION & FINISHING SYSTEM** SOAP DISPENSER SQUARE FEET OR FOOT EXPANSION JOINT ELECTRICAL PANELBOARD S.N.D. SANITARY NAPKIN DISPENSER ELECTRIC WATER COOLER S.N.R. SANITARY NAPKIN RECEPTACLE STAINLESS STEEL SCHEDULE SECT. ELEVATOR SECTION SHOWER EQUIPMENT SIMILAR OR SIMILAR TO EXHAUST SPECIFICATIONS **EXPANSION** SQUARE **EXTERIOR** STREET OR STEEL FIRE ALARM STANDARD STRUCTURAL FLOOR DRAIN SUSP. SUSPENDED FIRE EXTINGUISHER FIRE EXTINGUISHER CABINET FIRE HOSE CABINET FACE OF TOWEL BAR FACE OF CURB/CONCRETE TOP OF DRAIN TOP OF CURB/CONCRETE TOP OF MASONRY FACE OF TREAD TOP OF PARAPET FAR SIDE T.O.S. FOUNDATION T.O.W. T.P.D. TOP OF WALL TOILET PAPER DISPENSER FLOOR(ING) TELEPHONE FOOT OR FEET THICKNESS THRESHOLD

V.C.T.

W.W.F.

VINYL COMPOSITION TILE

VERIFY IN FIELD

VENTILATION

WALL BEYOND

WIRE GLASS

WIRE GLASS

WORK POINT

WASTE RECEPTACLE

WELDED WIRE FABRIC

VERTICAL

VESTIBULE

FIRE TREATED WOOD

FURRING

GRAB BAR

H.A.S.

GAUGE OR GAGE

HEADED ANCHOR STUD

HANDICAPPED - A.D.A.A.C

HEADED CONCRETE ANCHOR

GALVANIZED

HOSE BIBB

HOT WATER

HOUR

HORIZONTAL

HOLLOW METAL

PROJECT DESCRIPTION

PROJECT INCLUDES THE ADDITION OF A TRAINING ROOM TO AN EXISTING BUILDING USED AS A TRAINING

DEMOLITION OF (1) EXTERIOR DOOR

RELOCATION OF ELECTRICAL SERVICE AND GAS METER ADDITION OF A TRAINING ROOM

RELOCATION OF (1) SECURITY GATE AND ASSOSCIATED FENCE ADDITION OF (1) SECURITY GATE AND ASSOCIATED FENCE ADDITION OF A SITE EQUIPMENT ENCLOSURE ADDITION OF FIRE ALARMS

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 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

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 260 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 FIRESTOPPING 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-STOP RATINGS 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

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

EXIT WAYS SHALL BE ILLUMINATED. THE POWER SUPPLY FOR EXIT ILLUMINATION SHALL NORMALLY BE PROVIDED BY THE

PREMISES' WIRING SYSTEM, 2018 IBC SECTION 1008. COORDINATE MECHANICAL AND ELECTRICAL REQUIREMENTS, ROUTING, AND FIELD VERIFICATION. WHERE NEW CONSTRUCTION JOINS WITH EXISTING CONSTRUCTION, ALIGN FINISHED SURFACE OF NEW CONSTRUCTION WITH

PROVIDE COPY OF FIRE-RESISTANCE RATING ASSEMBLIES TO THE STRUCTURAL INSPECTOR FOR VERIFICATION OF TESTING/LISTING COMPLIANCE AND TO INSPECT ASSEMBLY CONSTRUCTION THEREWITH. COORDINATE CONSTRUCTION ACTIVITIES WITH OWNER.

EXISTING CONSTRUCTION

2018 IBC SECTION 803 AND TABLE 803.13.

THAT CONTROL LIGHTING AND ACCESSIBLE.

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

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

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

VENTILATION AND EXHAUST SYSTEMS SHALL BE PROVIDED AS REQUIRED BY THE INTERNATIONAL MECHANICAL CODE AND THE INTERNATIONAL FIRE CODE.

MATERIALS & SYMBOLS

CONTACT INFORMATION

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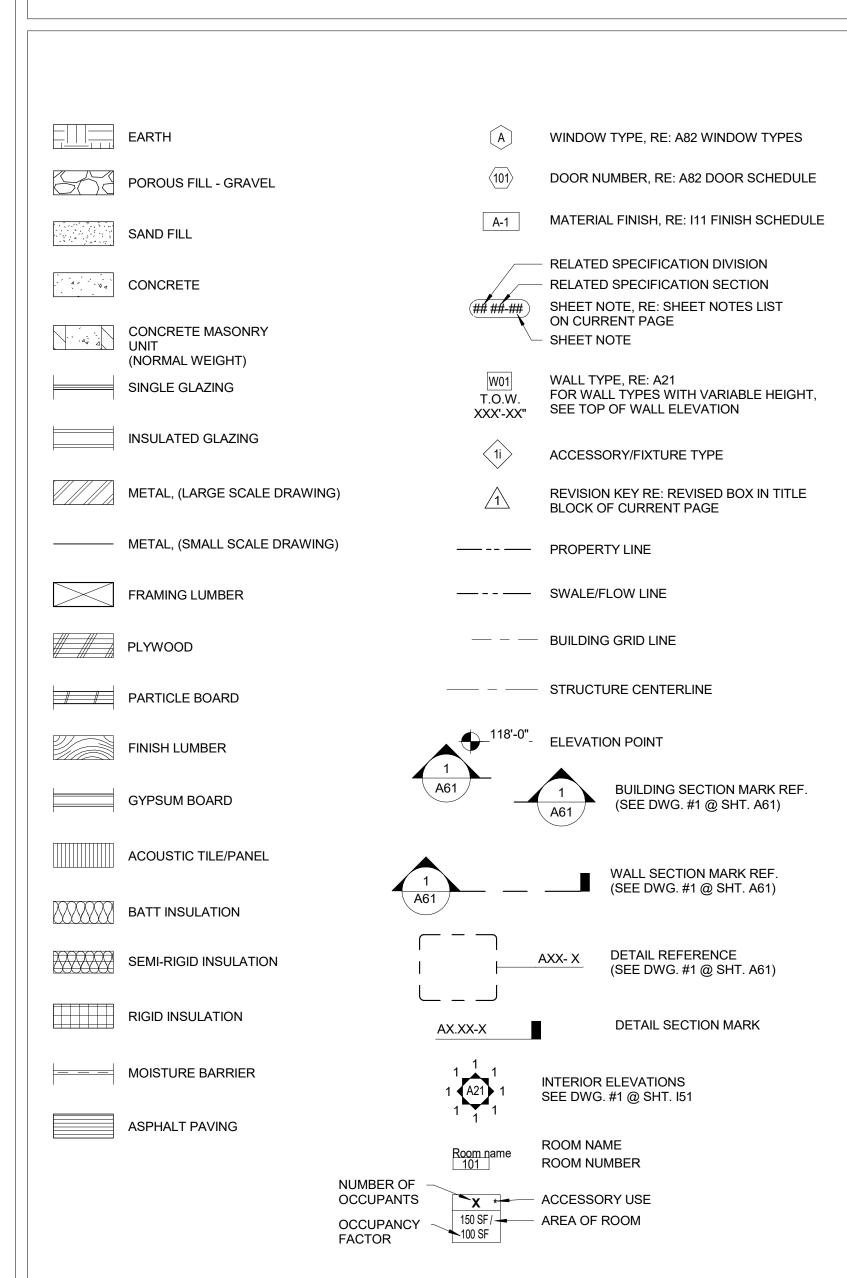
james.marsh@cshqa.com

234 S WHISPERWOOD WAY

KURT LECHTENBERG, P.E.

MUSGROVE ENGINEERING

234 S WHISPERWOOD WAY



DRAWING INDEX

G00 TITLE SHEET CODE & COMM CHECK ASSEMBLIES DEMO ARCHITECTURAL

AS21 DEMO PLAN C00

GENERAL INFORMATION SHEET SITE DEMOLITION PLAN **EROSION CONTROL PLAN** SITE IMPROVEMENT PLAN

LANDSCAPE

L10 LANDSCAPE PLAN LANDSCAPE DETAILS LANDSCAPE SPECIFICATIONS

First Floor Framing Plan Second Floor Framing Roof Framing

ROOF PLAN EXTERIOR ELEVATIONS

EXTERIOR DETAILS

CEILING DETAILS DOOR & WINDOW DETAILS

DOOR & WINDOW SCHEDULES

l11 FLOOR FINISH PLAN

INTERIOR ELEVATIONS

PLUMBING DEMOLITION FLOOR PLANS

PLUMBING NEW WORK FLOOR PLANS PLUMBING NEW WORK ROOF PLAN PLUMBING DETAILS AND SCHEDULE

MECHANICAL

MECHANICAL COVER SHEET MECHANICAL DEMOLITION FLOOR PLANS MECHANICAL NEW WORK FLOOR PLANS

MECHANICAL NEW WORK ROOF PLAN MECHANICAL DETAILS MECHANICAL DETAILS & SCHEDULES

ELECTRICAL

ELECTRICAL COVER SHEET LIGHTING COMPLIANCE

ELECTRICAL SITE PLAN

ELECTRICAL DEMOLITION FLOOR PLANS LIGHTING AND MECHANICAL POWER FLOOR PLANS

POWER AND SPECIAL SYSTEMS FLOOR PLANS

ELECTRICAL LEVEL 2 AND ROOF PLANS ELECTRICAL DETAILS

E70 ELECTRICAL DETAILS AND SCHEDULES

PROJECT INFORMATION

PROJECT ADDRESS: **CONSTRUCTION TYPE:** OCCUPANCY GROUP:

TYPE V-B B / A3

8150 W CHINDEN BLVD

ZONING: UNINCORPERATED AREA OF IMPACT 2018 INTERNATIONAL BUILDING CODE (IBC)

2018 INTERNATIONAL EXISTING BUILDING CODE (IEBC) 2018 INTERNATIONAL ENERGY CONSERVATION CODE (IECC) 2018 UNIFORM PLUMBING CODE (UPC) 2018 INTERNATIONAL MECHANICAL CODE (IMC)

2018 INTERNATIONAL FUEL GAS CODE (IFGC) 2017 NATIONAL ELECTRICAL CODE (NEC) 2017 IDAHO STATE PLUMBING CODE (ISPC)

ALLOWABLE AREA (PER IBC 2018 SECTIONS 503, SECTION 506, TABLE 506.2 AND SECTION 508.4.2) TABULAR AREA (OCCUPANCY/ CONSTRUCTION TYPE):

B AREA 2,446/9,000 + A3 AREA 1,174/6,000=0.467 SQUARE FOOTAGE:

TOTAL BUILDING AREA:

3,620 SF





PERMIT SET

PROJECT 04-11-24 DRAWN CHECKED

REVISED

SHEET TITLE

TITLE SHEET

SHEET

Project Information

2018 IECC Energy Code: ITD D3 TRAINING ROOM ADDITION Project Title:

Garden City, Idaho Location: Climate Zone:

New Construction Project Type: Vertical Glazing / Wall Area:

Construction Site: 8150 W CHINDEN BLVD

Garden City, Idaho 83714

Owner/Agent: IDAHO TRANSPORTATION DEPT. 3311 W STATE ST. BOISE, Idaho 83703 208-334-8600 tony.pirc@itd.idaho.gov

Designer/Contractor: JAMES MARSH 200 BROAD ST. BOISE, Idaho 83702 208-343-4635 james.marsh@cshqa.com

Additional Efficiency Package(s)

Credits: 1.0 Required 1.0 Proposed High Performance HVAC, 1.0 credit

Building Area	Floor Area
1-Office : Nonresidential	1176
•	

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U- Factor _®
Roof: Insulation Entirely Above Deck, [Bldg. Use 1 - Office]	1330		30.0	0.032	0.032
Floor: Unheated Slab-On-Grade, Vertical 2 ft., [Bldg. Use 1 - Office] (c)	1314		10.0	0.540	0.540
NORTH					
Ext. Wall: Wood-Framed, 16in. o.c., [Bldg. Use 1 - Office]	509	20.0	0.0	0.064	0.064
<u>EAST</u>					
Ext. Wall: Wood-Framed, 16in. o.c., [Bldg. Use 1 - Office]	509	20.0	0.0	0.064	0.064
Window: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID kawneer with solarban 60, SHGC 0.38, PF 0.30, [Bldg. Use 1 - Office] (b)	8			0.290	0.380
Door: Insulated Metal, Swinging, [Bldg. Use 1 - Office]	24			0.130	0.370
Door: Glass (over 50% glazing): Metal Frame, Entrance Door, Perf. Specs.: Product ID Kawneer door, SHGC 0.32, PF 0.30, [Bldg. Use 1 - Office] (b)	21	-	-	0.290	0.770
Window: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID kawneer with solarban 60, SHGC 0.38, PF 0.30, [Bldg. Use 1 - Office] (b)	20	-	-	0.290	0.380
Window: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID kawneer with solarban 60, SHGC 0.38, PF 0.30, [Bldg. Use 1 - Office] (b)	20			0.290	0.380
Window: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID kawneer with solarban 60, SHGC 0.38, PF 0.30, [Bldg. Use 1 - Office] (b)	20		-	0.290	0.380
Window: Metal Frame with Thermal Break: Fixed, Perf. Specs.:	34	-	-	0.290	0.380
Project Title: ITD D3 TRAINING ROOM ADDITION Data filename:				Report o	late: 04/08/24 ge 1 of 17

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U Factor _(s)
Product ID kawneer with solarban 60, SHGC 0.38, PF 0.30, [Bldg. Use 1 - Office] (b)					
<u>SOUTH</u> Ext. Wall: Wood-Framed, 16in. o.c., [Bldg. Use 1 - Office]	509	20.0	0.0	0.064	0.064
<u>WEST</u> Ext. Wall: Wood-Framed, 16in. o.c., [Bldg. Use 1 - Office]	560	20.0	0.0	0.064	0.064

(b) Fenestration product performance must be certified in accordance with NFRC and requires supporting documentation. (c) Slab-On-Grade proposed and budget U-factors shown in table are F-factors.

Envelope PASSES: Design 3% better than code

Envelope Compliance Statement

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

	•	
ORGE	HERNANDEZ - AIT II	

Project Title: ITD D3 TRAINING ROOM ADDITION Report date: 04/08/24 Data filename: Page 2 of 17

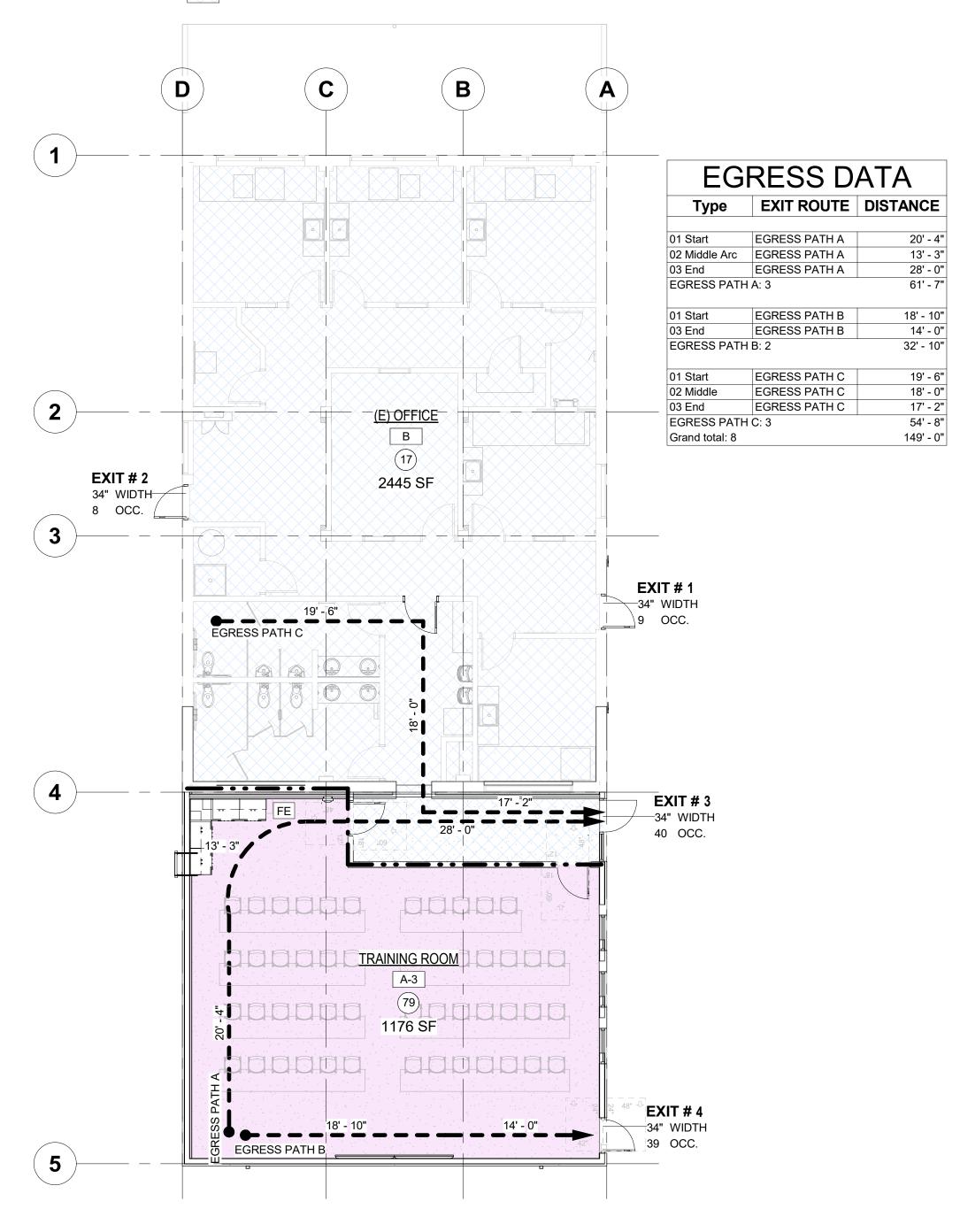
Area Schedule (Occupancy Data)					
	Occupancy		S.F. Per	Number of	
Name	Type	Area	Person	Occupants	Area - Net/Gross

LEVEL 1					
(E) OFFICE	В	2445 SF	150 SF	17	Gross
TRAINING ROOM	A-3	1176 SF	15 SF	79	Net
		2224 25		•	

OCCUPANCY TYPE LEGEND

A-3: Assembly without fixed seats - Unconcentrated (tables and chairs)

B: Business areas



1 CODE PLAN 1/8" = 1'-0"

PLUMBING FIXTURES PER 2018 IBC CHAPTER 29 TABLE 2902.1							
OCCUPANCY	OCCUPANT LOAD	MEN'S WATER CLOSET	WOMEN'S WATER CLOSET	MEN'S LAV.	WOMEN'S LAV.	DRINKING FOUNTAINS	SERVICE SINKS
В	17	1	1	1	1		
A-3	79	2	2	1	1		
TOTAL OCCUPANCY	96						
TOTAL FIX REQUII		3	3	2	2	1	1
TOTAL FIX PROVII		3	3	2	2	2	1

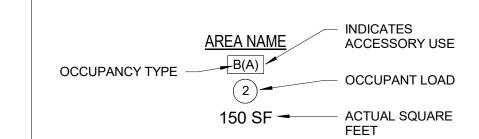
LEGEND

2-HOUR RATED FIRE WALL ASSEMBLY

----- NON-RATED FIRE EXTINGUISHER, RE: 171-4 FOR MOUNTING

REQUIREMENTS

EXIT REQUIRED EXIT / EXIT ACCESS DOOR(S) **EXIT** • MEAN OF EGRESS EXIT ACCESS DOOR(S)



GENERAL NOTES

- CODE REFERENCES ARE THOSE CURRENTLY ADOPTED BY CITY OF GARDEN CITY AND THE STATE OF IDAHO.
- APPLICABLE CODES: - 2018 INTERNATIONAL BUILDING CODE - 2018 INTERNATIONAL EXISTING BUILDING CODE

- ICC/ANSI A117.1-2009

- ADAAG

- 2018 INTERNATIONAL FIRE CODE - 2018 INTERNATIONAL ENERGY CONSERVATION CODE - 2018 INTERNATIONAL FIRE CODE - 2018 INTERNATIONAL MECHANICAL CODE
- 2017 NATIONAL ELECTRIC CODE - 2017 IDAHO STATE PLUMBING CODE - NFPA 415
- FOR LIGHTING COMPLIANCE INFORMATION, SEE ELECTRICAL DRAWINGS.
- FOR MECHANICAL COMPLIANCE INFORMATION, SEE MECHANICAL DRAWINGS.

CODE DATA: PER 2018 INTERNATIONAL BUILDING CODE

DESCRIPTION:	EXISTING BUILDING	NEW BUILDING
CONSTRUCTION TYPE:	V-B	V-B
OCCUPANCY:	GROUP B: 17	GROUP A-3: 79
AREA:	1ST FLOOR: 2445 GSF	1ST FLOOR: 1176 GSF
ALLOWABLE AREA:	9,000 SF	6,000 SF
NON-SEPARATED OCCUPANCIES:	PROVIDED PER IBC TABLE 508.4	PROVIDED PER IBC TABLE 508.4
ALLOWABLE STORIES:	11 STORIES PER TABLE 503	3 STORIES PER TABLE 503
ACTUAL STORIES:	1 STORY	1 STORY
ALLOWABLE BUILDING HEIGHT:	40'-0" PER TABLE 504.3	40'-0" PER TABLE 504.3
ACTUAL BUILDING HEIGHT:	20'-1"	17'-8 1/2"
FIRE RESISTANCE RATINGS OF BUILDING ELEMENTS:		
PRIMARY STRUCTURAL FRAME:	0 HOURS PER IBC TABLE 601	0 HOURS PER IBC TABLE 601
BEARING WALLS-EXTERIOR: > 30' FIRE SEPARATION:	0 HOURS PER IBC TABLE 601	0 HOURS PER IBC TABLE 601
BEARING WALLS-INTERIOR:	0 HOURS PER IBC TABLE 601	0 HOURS PER IBC TABLE 601
NONBEARING WALLS-INTERIOR:	0 HOUR PER IBC TABLE 601	0 HOUR PER IBC TABLE 601
FLOOR CONSTRUCTION:	0 HOURS PER IBC TABLE 601	0 HOURS PER IBC TABLE 601
ROOF CONSTRUCTION:	0 HOUR PER IBC TABLE 601	0 HOUR PER IBC TABLE 601
MINIMUM ROOF CLASS:	CLASS C PER IBC TABLE 1505.1	CLASS C PER IBC TABLE 1505.1
FIRE WALL:	NA	NA
FIRE DOORS AT FIRE WALLS:	NA	NA
PORTABLE FIRE EXTINGUISHERS:	EXISTING TO REMAIN	YES
AUTOMATIC SPRINKLER SYSTEM:	NONE EXISTING	NONE
FIRE ALARM SYSTEM:	EXISTING TO REMAIN	YES
FIRE FLOW REQUIRED:	N/A	1,750 GPM
FIRE FLOW PROVIDED:	N/A	1,672 GPM

PERMIT SET

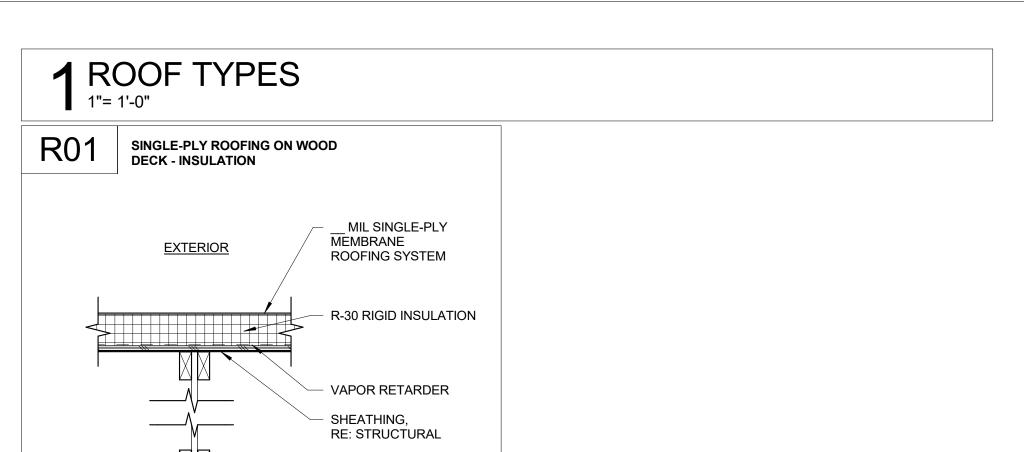
PROJECT 04-11-24 DRAWN CHECKED AJL JAM

REVISED

SHEET TITLE

CODE & **COMM CHECK**

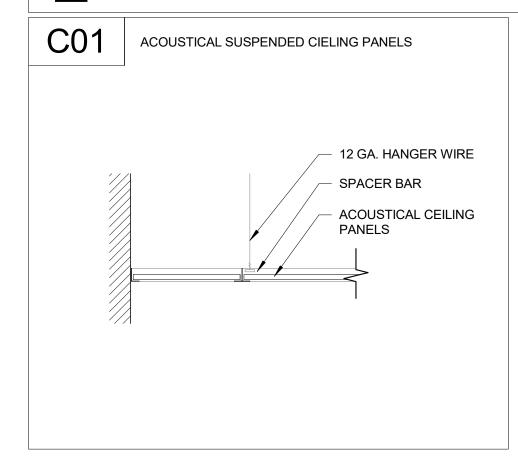
SHEET



ROOF TRUSS SYSTEM, RE: STRUCTUTRAL

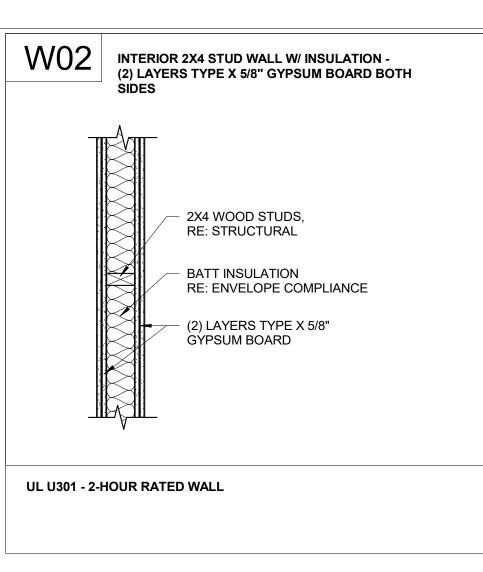
2 CEILING TYPES 1"= 1'-0"

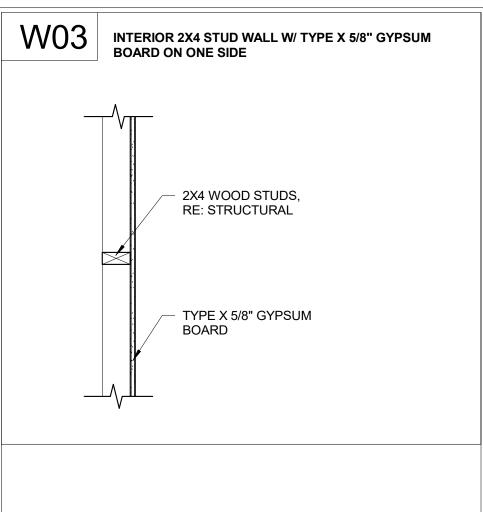
<u>INTERIOR</u>

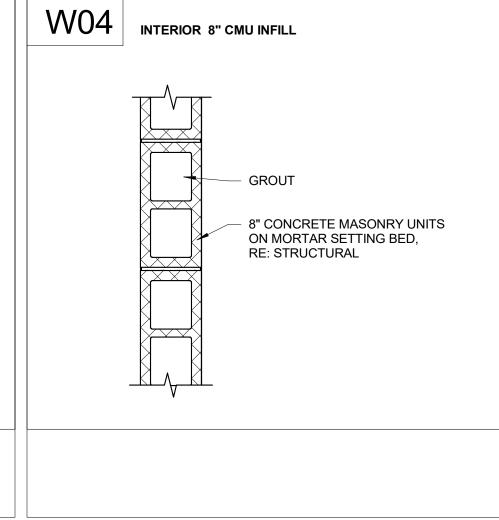


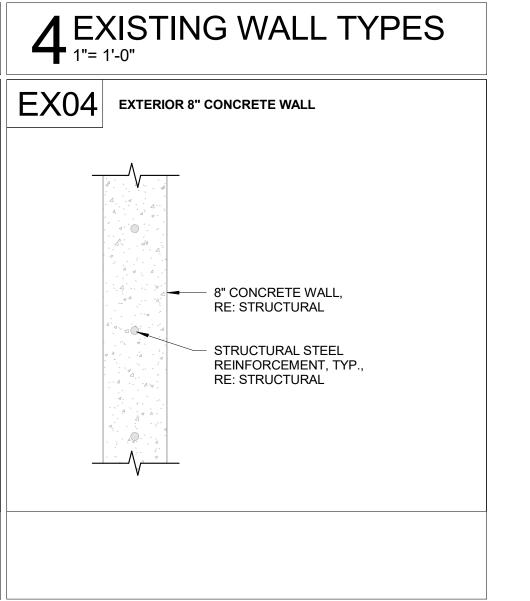
3 WALL TYPES

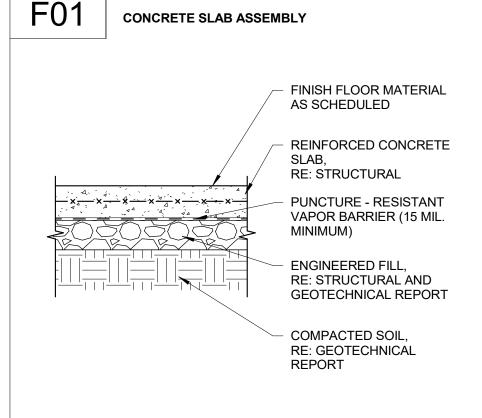
W01 EXTERIOR 2X6 WOOD STUD WALL W/ INSULATION -SHEATHING & EIFS (EXT) / 5/8" GYPSUM BOARD (INT) <u>INTERIOR</u> **EXTERIOR** WEATHER BARRIER ____ 2" EIFS 2X6 WOOD STUDS, RE: STRUCTURAL. BATT INSULATION RE: ENVELOPE COMPLIANCE SHEATHING, RE: STRUCTURAL 5/8 TYPE 'X' GYPSUM BOARD OVER VAPOR BARRIER

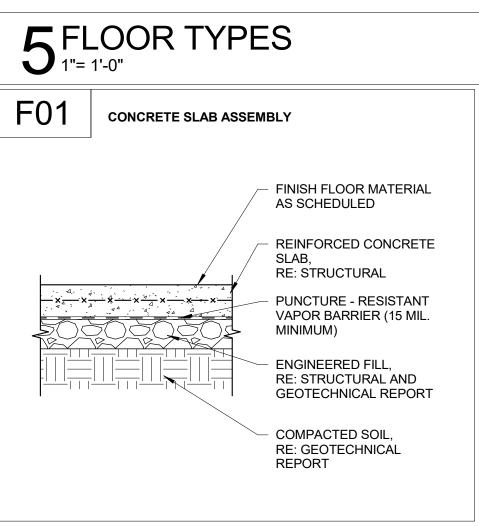












PERMIT SET PROJECT DATE 04-11-24 DRAWN CHECKED JLH REVISED SHEET TITLE **ASSEMBLIES**

SHEET

DRAWING INDEX

GENERAL INFORMATION SHEET

SITE DEMOLITION PLAN C10

C20 EROSION & SEDIMENT CONTROL PLAN

SITE IMPROVEMENT PLAN

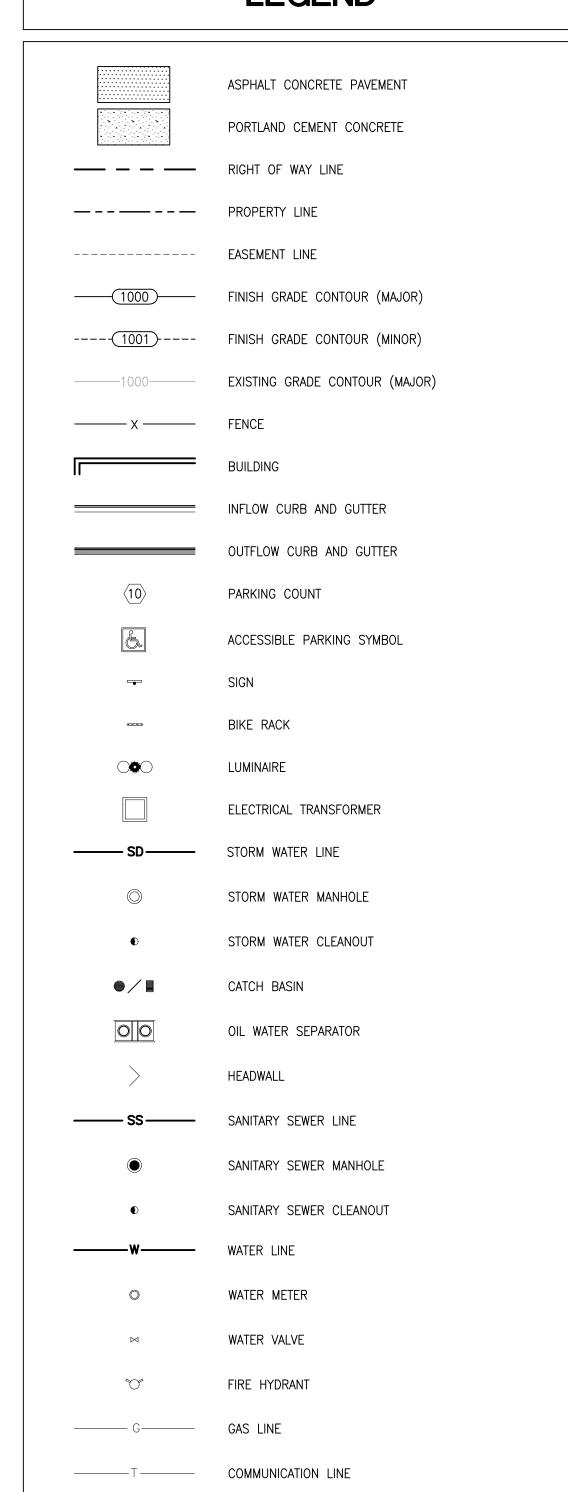
GENERAL NOTES

- A. FOR SPECIFICATIONS CONFORM TO THE CURRENT EDITION OF THE IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION (ISPWC) AND THE IDAHO PLUMBING CODE UNLESS OTHERWISE NOTED.
- B. 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.
- C. ALL LOT DIMENSION, EASEMENTS AND CERTAIN OFF-SITE EASEMENTS ARE TO BE TAKEN FROM THE PLAT.
- D. DO NOT SCALE DRAWINGS.
- E. FIGURED DIMENSIONS TAKE PRECEDENCE OVER SCALED DRAWINGS. WHERE DISCREPANCIES OCCUR, THEY SHALL BE REPORTED TO THE ENGINEER FOR RESOLUTION.
- F. DETAILED DRAWINGS AND LARGER SCALE DRAWINGS TAKE PRECEDENCE OVER SMALLER SCALE DRAWINGS (IE 1"=10' TAKES PRECEDENCE OVER 1"=100').
- G. THE CONTRACTOR(S) SHALL REMOVE ALL OBSTRUCTIONS BOTH ABOVE AND BELOW GROUND, AS REQÙIRED FOR THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS. THIS SHALL INCLUDE CLEARING AND GRUBBING WHICH CONSISTS OF CLEARING THE GROUND SURFACE OF ALL TREES, STUMPS, BRUSH, UNDERGROWTH, HEDGES, HEAVY GROWTH OF GRASS OR WEEDS, FENCES, STRUCTURES, DEBRIS, RUBBISH, AND SUCH MATERIAL WHICH, IN THE OPINION OF THE ENGINEER, IS UNSUITABLE FOR THE FOUNDATION OF PAVEMENTS. ALL MATERIAL NOT SUITABLE FOR FUTURE USE ON SITE SHALL BE DISPOSED OF OFF SITE.
- H. THE CONTRACTOR SHALL MAINTAIN ALL DRAINAGE FACILITIES WITHIN THE CONSTRUCTION AREA UNTIL THE DRAINAGE IMPROVEMENTS ARE IN PLACE AND
- I. ALL CONTRACTORS WORKING WITHIN THE PROJECT BOUNDARIES ARE RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE SAFETY LAWS OF ANY JURISDICTIONAL BODY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR BARRICADES, SAFETY DEVICES AND CONTROL OF TRAFFIC WITHIN AND AROUND THE CONSTRUCTION AREA.
- J. ALL AC PAVEMENT SHALL BE CUT TO A NEAT STRAIGHT LINE AND THE EXPOSED EDGE SHALL BE TACKED WITH EMULSION PRIOR TO PAVING.
- K. 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.
- L. 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 ENGINEER.
- M. THE CONTRACTOR SHALL CALL DIGLINE (208-342-1585) AND HAVE THE LOCATION OF EXISTING UTILITIES MARKED AT LEAST TWO WORKING DAYS PRIOR TO THE BEGINNING OF EXCAVATION. CONTACT OTHER UTILITY OWNERS WHICH DIGLINE DOES NOT MARK, TO HAVE THEM LOCATE THEIR FACILITIES.
- N. WHERE NO MATERIAL NOTES OCCUR, THE GRAPHIC MATERIAL INDICATION SHALL INDICATE MATERIAL TYPES AND ITEMS. SEE LEGEND ON THIS SHEET.
- O. ALL NEW CONSTRUCTION TO COMPLY WITH THE AMERICANS WITH DISABILITIES ACT ACCESSIBLE GUIDELINES (A.D.A.A.G).
- P. UNLESS OTHERWISE INDICATED ALL DRAWINGS, NOTES WHICH DO NOT READ "NIC", "EXISTING", "EXISTING TO REMAIN", OR "BY OTHERS" SHALL INDICATE NEW WORK WHICH SHALL BE CONTRACTOR FURNISHED AND CONTRACTOR INSTALLED.
- Q. ALL MATERIALS FURNISHED ON OR FOR THE PROJECT MUST MEET THE MINIMUM REQUIREMENTS OF THE APPROVING AGENCIES OR AS SET FORTH HEREIN, WHICHEVER IS MORE RESTRICTIVE. CONTRACTORS MUST FURNISH PROOF THAT ALL MATERIALS INSTALLED ON THIS PROJECT MEET THIS REQUIREMENT IF REQUESTED BY THE AGENCY OR THE ENGINEER.
- R. ALL COSTS OF RETESTING PREVIOUSLY FAILED TESTS SHALL BE BACK CHARGED TO THE CONTRACTOR BY THE OWNER.
- S. ALL COSTS INCURRED IN CORRECTING DEFICIENT WORK SHALL BE TO THE CONTRACTOR. FAILURE TO CORRECT SUCH WORK WILL BE CAUSE FOR A STOP WORK ORDER AND POSSIBLE TERMINATION.
- T. THE CONTRACTOR IS RESPONSIBLE FOR FILING THE STORM WATER POLLUTION PREVENTION PLAN NOTICE OF INTENT (N.O.I.) PRIOR TO ANY CONSTRUCTION.
- U. ALL CONSTRUCTION ADDENDA, CHANGE ORDERS, OR DESIGN CLARIFICATIONS FOR 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 FIELD CHANGE.
- V. CONTRACTOR SHALL WORK FROM AND HAVE ON SITE AT ALL TIMES ONLY STAMPED, AGENCY APPROVED, DRAWINGS FOR THIS PROJECT.
- W. IF FIELD GRADE ADJUSTMENTS ARE REQUIRED, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER.
- X. MANHOLE LIDS AND DRAINAGE STRUCTURES SHALL BE HS-25 TRAFFIC RATED.
- Y. ANY CHANGE FROM THE PLANS SHALL BE APPROVED BY THE ENGINEER OF
- Z. EQUIPMENT AND MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.
- AA. IF A CONFLICT EXISTS BETWEEN THE PLANS, SPECIFICATIONS, OR SOILS REPORT, THE CONTRACTOR SHALL CONTACT THE ARCHITECT/ENGINEER FOR CLARIFICATION PRIOR TO CONSTRUCTION.
- AB. SEE SITE ELECTRICAL PLAN FOR SITE LIGHTING, POWER, AND COMMUNICATION.
- AC. THE CONTRACTOR SHALL SUBMIT A SET OF RECORD DRAWINGS TO THE ENGINEER OF RECORD WITHIN FIVE WORKING DAYS AFTER THE COMPLETION OF WORK. RECORD DRAWINGS SHALL BE IN ACCORDANCE WITH AHJ SPECIFICATIONS.
- AD. CONTRACTOR SHALL OBTAIN ALL PERMITS NECESSARY TO COMPLETE HIS WORK.

ABBREVIATIONS

	ADDITEVIATIONS
@ AB AC ASPH AWWA	AT AGGREGATE BASE ASPHALT CONCRETE ASPHALT AMERICAN WATER WORKS ASSOCIATION
BFTG BLDG BTM	BOTTOM OF FOOTING BUILDING BOTTOM
© C CB CB/SB CONC CSP	CENTERLINE CURVE CATCH BASIN CATCH BASIN/SEDIMENT BOX CONCRETE CORRUGATED STEEL PIPE
DEPT DEQ DESC DIA	DEPARTMENT DEPARTMENT OF ENVIRONMENTAL QUALITY DESCRIPTION DIAMETER
E EG ELEV ELL EOP EST EW	ELECTRICAL / EAST / EASTING EXISTING GRADE ELEVATION ELBOW EDGE OF PAVEMENT ESTIMATE EACH WAY
FDC FF FG FH FL FOC FT	FIRE DEPARTMENT CONNECTION FINISH FLOOR ELEVATION FINISHED GRADE FIRE HYDRANT FLOWLINE FACE OF CURB FEET
G GALS GALV GB GPD GRND GRVL GRT	GAS GALLONS GALVANIZED GRADE BREAK GALLONS PER DAY GROUND GRAVEL TOP OF GRATE
HDPE	HIGH DENSITY POLYETHYLENE
IE INV	INVERT ELEVATION INVERT
L LF	LENGTH / LINE LINEAR FEET
MAX MH MIN MUTCD	MAXIMUM MANHOLE MINIMUM MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
N NO. NTS	NORTH / NORTHING NUMBER NOT TO SCALE
OC OWS	ON CENTER OIL WATER SEPARATOR
PC PCC PE PERF PIV PL PRC PS PT PVC PVMT	POINT OF CURVATURE PORTLAND CEMENT CONCRETE POLYETHYLENE PERFORATED POST INDICATOR VALVE PROPERTY LINE POINT OF REVERSE CURVATURE PRESSURIZED SEWER POINT OF TANGENCY POLYVINYL CHLORIDE PAVEMENT
QUAN	QUANTITY
R RE: ROW	RADIUS REFER TO RIGHT OF WAY
S SCH SDCO SDMH SDWK SQ FT SS SSCO SSMH	SOUTH SCHEDULE STORM DRAIN STORM DRAIN CLEANOUT STORM DRAIN MANHOLE SIDEWALK SQUARE FEET SANITARY SEWER SANITARY SEWER MANHOLE
T TBC TC TD TDH TMC TOC TOW TYP	TELEPHONE TOP BACK OF CURB TOP OF CONCRETE TRENCH DRAIN TOTAL DYNAMIC HEAD TOP OF MOUNTABLE CURB TOP OF CURB TOP OF WALL TYPICAL
W W/ WV	WATER / WEST WITH WATER VALVE

LEGEND



Electrical line



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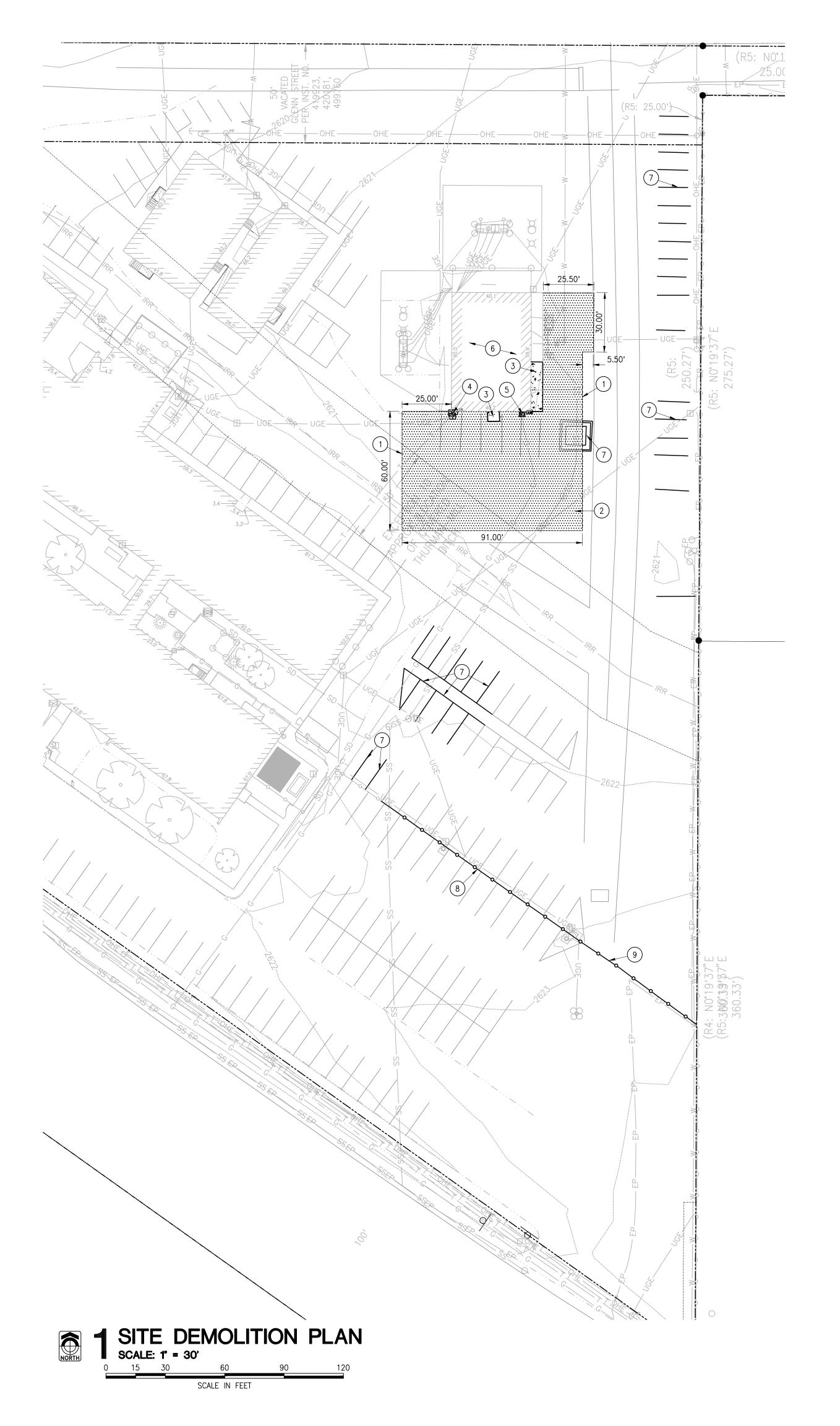
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SHEET TITLE **GENERAL INFORMATION** SHEET



GENERAL NOTES:

A. SEE SHEET COO FOR GENERAL NOTES.

DEMOLITION NOTES:

- A. EXISTING SITE INFORMATION AND LOCATION OF EXISTING SITE IMPROVEMENTS WERE PROVIDED BY "ALTA/NSPS LAND TITLE SURVEY, IDAHO TRANSPORTATION DEPARTMENT, DISTRICT 3" PREPARED BY KELLER ASSOCIATES WITH DATE 08/11/2023 . THE EXISTING SITE INFORMATION IS PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR. CONTRACTOR SHALL FIELD VERIFY EXISTING
- B. THE CONTRACTOR SHALL CALL DIGLINE (1-208-342-1585) AND HAVE THE LOCATION OF EXISTING UTILITIES MARKED AT LEAST TWO WORKING DAYS PRIOR TO THE BEGINNING OF EXCAVATION.
- C. CONTRACTOR SHALL CALL THE UNDERGROUND UTILITY LOCATING SERVICE AND HAVE THEM MARK THE LOCATION OF EXISTING UTILITIES AT LEAST TWO WORKING DAYS PRIOR TO BEGINNING OF WORK.
- D. TYPE AND LOCATION OF EXISTING UTILITIES SHOWN IS BASED ON BEST AVAILABLE INFORMATION. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING AND LOCATING ALL EXISTING UTILITIES PRIOR TO DEMOLITION AND EXCAVATION. COORDINATE WITH UTILITY COMPANIES AND ARCHITECT/ENGINEER FOR SCHEDULING OF DISCONNECTION AND FOR CAPPING PROCEDURES. COORDINATE ALL DISRUPTIONS WITH UTILITY SERVICES WITH ARCHITECT AND ADJACENT BUSINESSES THREE DAYS PRIOR TO SCHEDULED DISRUPTION.
- . REMOVE ALL LOOSE SOIL FROM AREAS OF EXCAVATION AND FILL WITH
- F. DURING ALL PHASES OF DEMOLITION AND CONSTRUCTION, PRECAUTION SHALL BE TAKEN NOT TO INCONVENIENCE THE ADJOINING BUSINESSES AS REASONABLY POSSIBLE AND TO MAINTAIN UNINTERRUPTED ACCESS.
- G. 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 SUBMIT TO THE ARCHITECT/ENGINEER HIS DEMOLITION PROCEDURES AND OPERATIONAL SEQUENCE FOR APPROVAL.
- H. CONTRACTOR SHALL PROVIDE PROPER CONSTRUCTION SIGNAGE/BARRICADES AT ROADWAYS AND APPROACHES IN ACCORDANCE WITH MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND ACHD REQUIREMENTS.
- EXISTING TREES, DEBRIS, STRUCTURES, ASPHALT, CONCRETE, AND DELETERIOUS MATERIAL INCLUDING BUT NOT LIMITED TO CONCRETE FOOTINGS, BASEMENTS, SEPTIC TANKS, AND UNDERGROUND UTILITIES TO BE REMOVED SHALL BE DISPOSED OF OFF-SITE AT THE CONTRACTOR'S EXPENSE. THE DEPRESSIONS LEFT BY REMOVAL SHALL BE BACKFILLED WITH CLEAN ENGINEERED FILL IN LAYERS NOT TO EXCEED 8 INCHES.
- J. THE CONTRACTOR SHALL COMPLETELY REMOVE THE EXISTING PAVED AREAS SPECIFIED. IN ADDITION, CONTRACTOR SHALL REMOVE UNDERGROUND UTILITIES AS IDENTIFIED ON THESE DRAWINGS, IN ACCORDANCE WITH ALL APPLICABLE AUTHORITIES HAVING JURISDICTION AND IN AN ORDERLY MANNER. COORDINATE REMOVAL AND CONSTRUCTION OF UTILITIES TO MAINTAIN UNINTERRUPTED SERVICE TO EXISTING FACILITIES.
- K. PERFORM ASPHALT STREET CUTS AND SURFACE REPAIRS PER ACHD POLICIES AND PROCEDURES. ANY DAMAGED ROADWAY PAVEMENT SHALL BE REPAIRED TO THE SATISFACTION OF ACHD.
- L. THIS PLAN SHOWS GENERAL DEMOLITION WORK TO BE PERFORMED AND DOES NOT RELIEVE THE CONTRACTOR FROM OTHER DEMOLITION WORK REQUIRED TO PRODUCE THE SITE MODIFICATIONS SHOWN ON THE REMAINING CONTRACT DOCUMENTS.
- M. AREAS INDICATED ASPHALT OR CONCRETE REMOVAL SHALL INCLUDE REMOVAL OF THE PAVEMENT SECTION FROM THE ASPHALT SURFACE DOWN TO EXISTING
- N. DEMOLITION OF LIGHT POLES, ELECTRICAL CONDUIT AND UNDERGROUND UTILITIES SHALL NOT INTERFERE WITH THE OPERATION OF EXISTING LIGHTING, ELECTRICAL SYSTEM OF UTILITIES WHICH REMAIN. TEMPORARY REROUTING OF LINES MAY BE REQUIRED TO ENSURE CONTINUOUS OPERATION OF THOSE SYSTEMS NOT SCHEDULED FOR DEMOLITION.
- O. ALL PAVEMENT REMOVAL SHALL BE SAWCUT WHERE INDICATED TO FORM A CLEAN EDGE AT THE LINE OF REMOVAL PER ACHD STANDARDS, POLICIES, AND
- P. EXISTING UNDERGROUND UTILITIES WITHIN THE LIMITS OF THE BUILDING FOOTPRINT, OR WITHIN 2' OF THE BOTTOM OF EXCAVATION, SHALL BE REMOVED. UTILITIES TO BE DEMOLISHED BEYOND 2' BELOW SUBGRADE SHALL BE REMOVED OR ABANDONED IN PLACE AT THE CONTRACTORS OPTION. PIPES, CONDUIT, AND UTILITY LINES 6" OR LARGER SHALL BE GROUTED WITH CONCRETE MORTAR MIX IF ABANDONED IN PLACE.

SHEET NOTES:

- 1. SAWCUT LINE, SHOWN APPROXIMATE.
- 2. EXISTING ASPHALT TO BE REMOVED AS INDICATED BY HATCH PATTERN, COORDINATE WITH PLUMBING, ELECTRICAL, AND COMMUNICATIONS FOR ADDITIONAL CUTS NEEDED FOR UTILITY TRENCHING.
- 3. EXISTING CONCRETE BE REMOVED AS INDICATED BY HATCH PATTERN.
- 4. EXISTING POWER AND COMMUNICATIONS APPURTENANCES TO BE RELOCATED, RE: ELECTRICAL. 5. EXISTING GAS METER TO BE RELOCATED, CONTRACTOR TO COORDINATE WITH
- INTERMOUNTAIN GAS.
- 6. SEE ARCHITECTURAL DRAWINGS FOR DEMOLITION ASSOCIATED WITH BUILDING
- 7. EXISTING STRIPING TO BE OBLITERATED (TYP).
- 8. EXISTING FENCE TO BE REMOVED.
- 9. EXISTING GATE TO BE RELOCATED, RE: C40.



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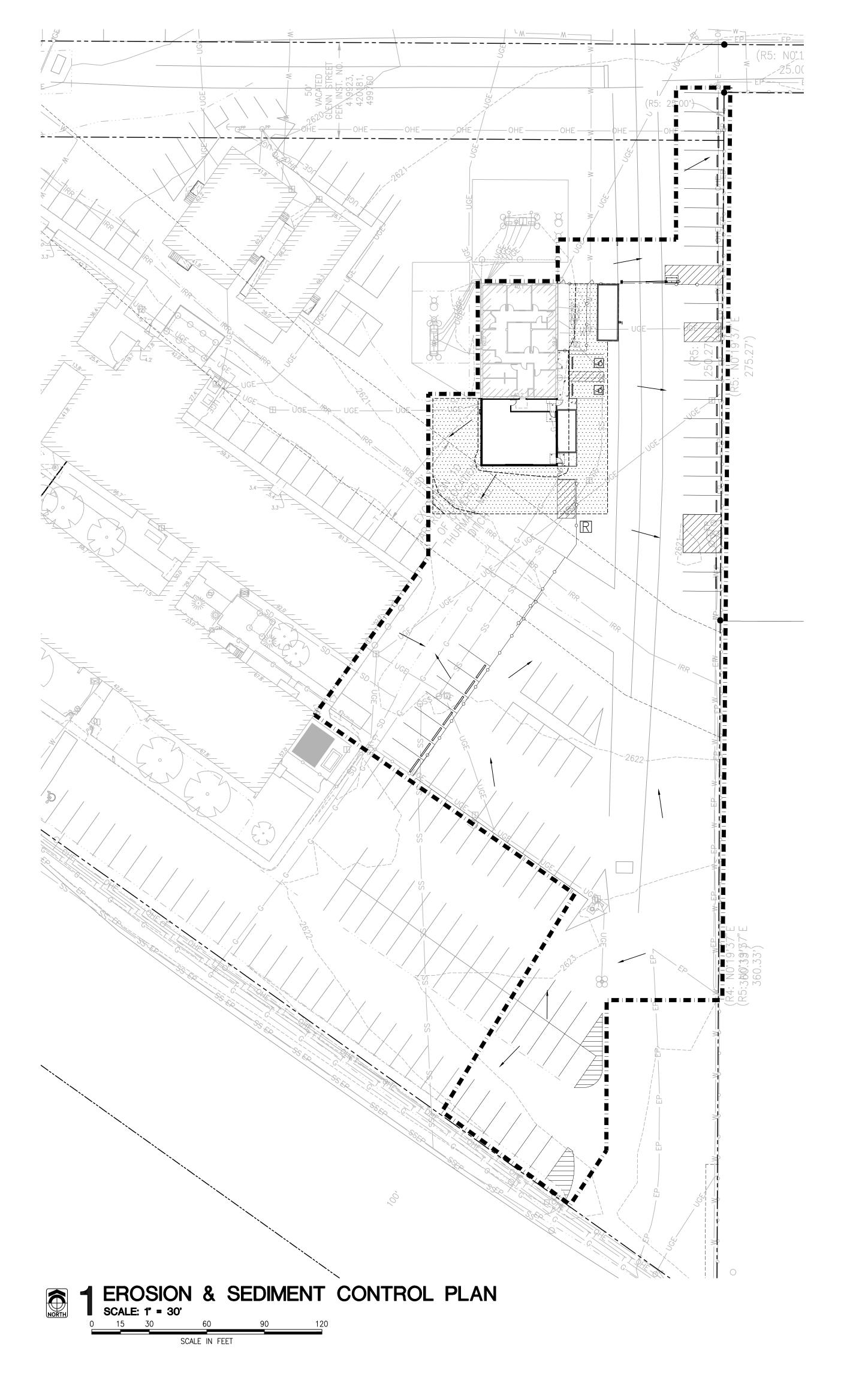
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SHEET TITLE SITE **DEMOLITION PLAN**

ORIGINAL SHEET SIZE



EROSION CONTROL NOTES:

- A. ALL WORK ASSOCIATED WITH STABILIZING THE DISTURBED AREAS SHALL BE IN ACCORDANCE WITH THE CITY OF BOISE CONSTRUCTION SITE EROSION CONTROL & SEDIMENT CONTROL PROGRAM AND FIELD MANUAL.
- B. CONTRACTOR OR DESIGNATED PERSON SHALL BE RESPONSIBLE FOR PROPER INSTALLATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL MEASURES, IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS.
- THE IMPLEMENTATION OF THESE EROSION AND SEDIMENT CONTROL PLANS AND CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE EROSION AND SEDIMENT CONTROL PLAN FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED BY THE LOCAL JURISDICTION, AND VEGETATION/LANDSCAPING IS ESTABLISHED. THE DEVELOPER SHALL BE RESPONSIBLE FOR MAINTENANCE AFTER THE PROJECT IS APPROVED.
- D. THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY MARKED IN THE FIELD PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE CLEARING LIMITS SHALL BE PERMITTED. THE MARKINGS SHALL BE MAINTAINED BY THE CONTRACTOR FOR THE DURATION OF CONSTRUCTION.
- THE EROSION AND SEDIMENT CONTROL FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO INSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DOES NOT ENTER THE DRAINAGE SYSTEM, ROADWAYS, ADJACENT OPEN WATER SURFACES OR VIOLATE APPLICABLE WATER STANDARDS.
- THE EROSION AND SEDIMENT CONTROL FACILITIES SHOWN ON THIS PLAN ARE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING CONSTRUCTION PERIOD, THESE EROSION AND SEDIMENT CONTROL FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DOES NOT LEAVE THE SITE.
- G. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATIONS SHALL NOT FLUSH SEDIMENT-LADEN WATER INTO THE DOWNSTREAM SYSTEM.
- H. STORM DRAIN INLETS, BASINS, AND AREA DRAINS SHALL BE PROTECTED UNTIL PAVEMENT SURFACES ARE COMPLETED AND/OR VEGETATION IS RE-ESTABLISHED.
- PAVEMENT SURFACES AND VEGETATION ARE TO BE PLACED AS RAPIDLY AS POSSIBLE.
- . CONCRETE WASHOUT MUST BE CONTAINED IN AN ABOVE GROUND CONTAINER PER IDEQ STORM WATER BMP #49.

STOCKPILED TOPSOIL NOTES:

- K. STOCKPILES SHALL BE STABILIZED (WITH PLASTIC COVERING OR OTHER APPROVED DEVICE) DAILY BETWEEN NOVEMBER 1 AND MARCH 31.
- L. IN ANY SEASON, SEDIMENT LEACHING FROM STOCKPILES MUST BE PREVENTED. STORM WATER NOTES:
- M. OPERATORS ARE RESPONSIBLE TO PREPARE AND FILE A NOTICE OF INTENT (NOI) AS REQUIRED BY THE EPA AND DEVELOP A PROJECT SPECIFIC STORM WATER POLLUTION PREVENTION PLAN (SWPPP).
- N. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CITY OF BOISE STANDARDS AND THE CITY OF BOISE CONSTRUCTION SITE EROSION AND SEDIMENT CONTROL PROGRAM AND FIELD MANUAL.
- O. SHOULD THE TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES AS SHOWN ON THIS DRAWING NOT PROVE ADEQUATE TO CONTROL EROSION AND SEDIMENTATION, THE CONTRACTOR SHALL INSTALL ADDITIONAL FACILITIES AS NECESSARY TO PROTECT ADJACENT PROPERTIES, SENSITIVE AREAS, NATURAL WATER COURSES. AND/OR STORM DRAINAGE SYSTEMS.
- P. THE CONTRACTOR SHALL CALL DIGLINE (1-208-342-1585) AND HAVE THE LOCATION OF EXISTING UTILITIES MARKED A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATIONS.
- Q. ALL EROSION CONTROL AND STORM WATER FACILITATES SHALL BE REGULARLY INSPECTED AND MAINTAINED BY THE CONTRACTOR DURING CONSTRUCTION.
- R. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN STREET USE AND OTHER RELATED OR REQUIRED PERMITS PRIOR TO ANY CONSTRUCTION ACTIVITY IN THE MUNICIPALITY'S RIGHT-OF-WAY. IT SHALL ALSO BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL REQUIRED PERMITS PRIOR TO ANY CONSTRUCTION. THE CONTRACTOR SHALL ABIDE BY ALL REQUIREMENTS FOR TRAFFIC CONTROL AND SAFETY WHEN WORKING IN THE ROAD RIGHT-OF-WAY.
- . AT NO TIME SHALL MORE THAN ONE—HALF (1/2) FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A PROTECTED CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PROJECT COMPLETION. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT-LADEN WATER INTO THE DOWNSTREAM SYSTEM.

GENERAL NOTES:

A. CONSTRUCTION PARKING SHALL BE LOCATED ON EXISTING FACILITIES.

SHEET NOTES:

DESIGNATED AREA FOR WASHOUTS.

LEGEND

AREA OF ACTIVE CONSTRUCTION/CONTRACT LIMIT LINE

SLOPE ARROW

SANITARY AND SEPTIC WASTE MANAGEMENT PER IDEQ BMP #50



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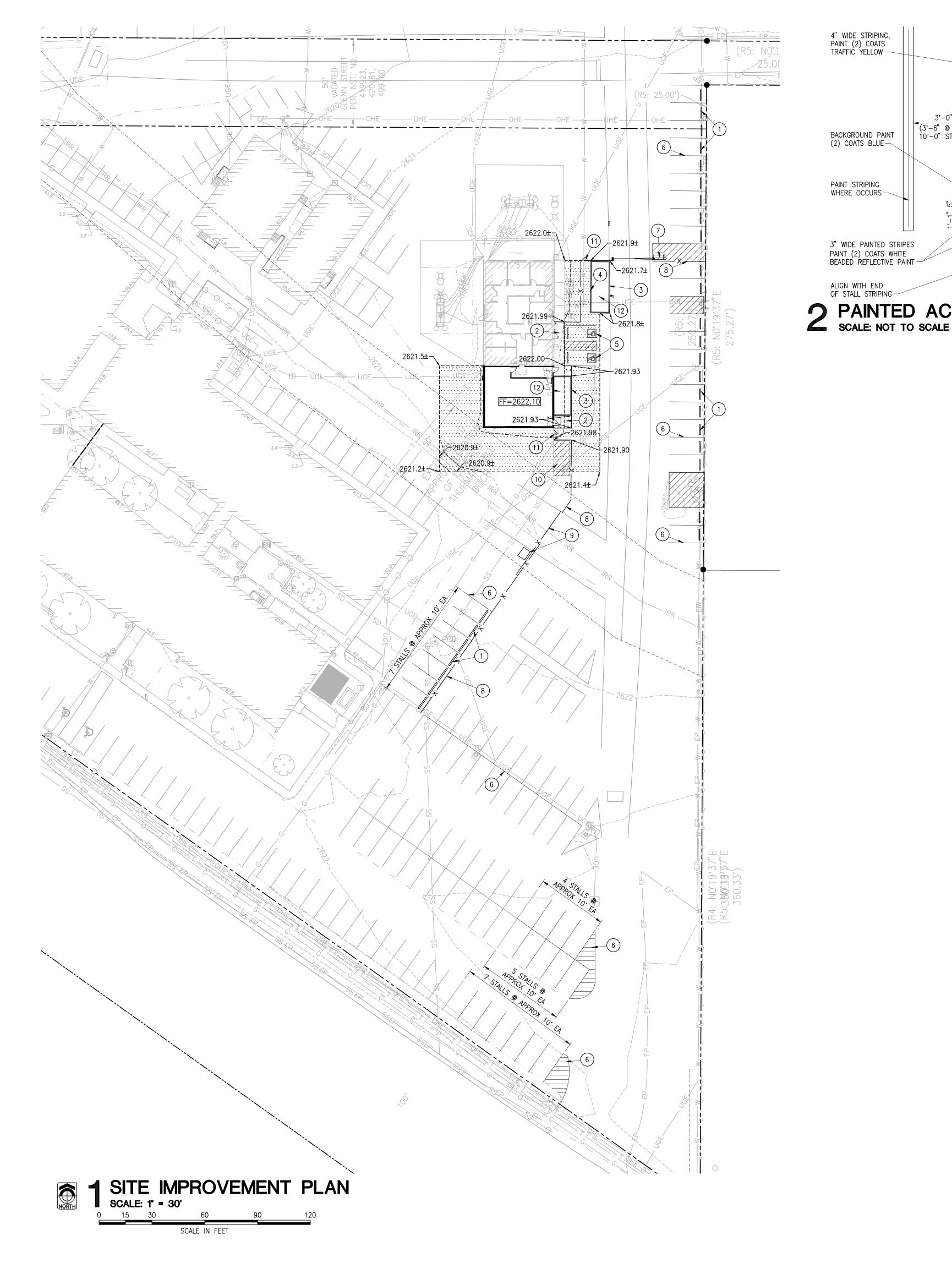
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SHEET TITLE **EROSION & SEDIMENT** CONTROL PLAN



SITE IMPROVEMENT NOTES:

A. FOR GENERAL NOTES SEE DRAWING COO.

4" WIDE STRIPING,

PAINT (2) COATS TRAFFIĆ ÝELLOW –

BACKGROUND PAINT

(2) COATS BLUE—

PAINT STRIPING

WHERE OCCURS

3" WIDE PAINTED STRIPES

PAINT (2) COATS WHITE BEADED REFLECTIVE PAINT -

ALIGN WITH END OF STALL STRIPING - 1'-6" 1'-6"

PAINTED ACCESSIBILITY SYMBOL

(3'-6" @ 10'-0" STALLS)

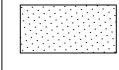
3'-0**"**

10'-0" STALLS)

(3'-6" @

- B. IF FIELD GRADE ADJUSTMENTS ARE REQUIRED, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER.
- C. THE MAXIMUM CROSS SLOPE OF ANY SIDEWALK OR RAMP SHALL BE 2%.
- D. UNLESS ELEVATIONS AND/OR CONTOURS ARE OTHERWISE SHOWN, NEW IMPERVIOUS SURFACE MUST BE PLACED TO ALLOW FOR POSITIVE DRAINAGE TO CURB, GUTTER, AND OTHER RUNOFF COLLECTION DEVICES. SLOPE TO BE MIN. 1.5% AND MAX. 5%, UNLESS OTHERWISE INDICATED OR DIRECTED BY THE ARCHITECT/ENGINEER.
- E. PROJECT BENCHMARK INFORMATION COMES FROM THE TOPOGRAPHIC SURVEY.
- F. COORDINATE WITH OTHER DISCIPLINES FOR CONDUIT LOCATIONS.
- G. UTILITY TRENCHING AND BACKFILLING SHALL BE IN ACCORDANCE WITH THE SOILS REPORT AND LOCAL REQUIREMENTS, AND SHALL COMPLY WITH ALL LOCAL, STATE, AND NATIONAL SAFETY STANDARDS.
- H. UTILITY CONSTRUCTION SHALL CONFORM TO PLUMBING CODE AND THE CURRENT EDITION OF THE ISPWC.
- EXISTING UTILITIES ARE SHOWN APPROXIMATELY AND FOR GENERAL INFORMATION PURPOSES ONLY. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL
- J. FINISHED FLOOR ELEVATION TO MATCH EXISTING BUILDING, ACTUAL ELEVATION MAY VARY SLIGHTLY FROM LABEL IN PLAN.

LEGEND:



MATCH EXISTING PAVEMENT SECTION

2650.31 EDGE OF PAVEMENT/CONCRETE (UNLESS OTHERWISE NOTED)

SHEET NOTES:

- 1. PRECAST CONCRETE WHEEL STOP INSTALLED PER MANUFACTURER'S RECOMMENDATIONS, TYPICAL WHERE SHOWN.
- 2. 4" CONCRETE SIDEWALK PER ISPWC SD-709.
- 3. 6" VERTICAL CURB (NO GUTTER) PER ISPWC SD-701A.
- 4. TBC ON WEST EDGE OF THIS PLANTER TO BE FLUSH WITH PAVEMENT TO ACCEPT RUNOFF, CURB HEIGHT TO TRANSITION TO FULL HEIGHT OVER NORTH AND SOUTH SECTIONS SO EAST EDGE IS CONTINUOUSLY 6" ABOVE ADJACENT PAVEMENT.
- 5. PAINTED ACCESSIBILITY SYMBOL, RE: C40-2. INSTALL BUILDING MOUNTED ACCESSIBLE PARKING SIGN CENTERED ON STALL, RE: ARCH.
- 6. 4" WIDE STRIPING W/TWO COATS TRAFFIC RATED WHITE PAINT PER MUTCD STANDARDS, TYPICAL. WHERE HATCHING IS SHOWN SPACING SHALL BE 2' O.C.
- 7. NEW GATE, SEE BID NOTES ON THIS SHEET.
- 8. NEW FENCE SEE BID NOTES ON THIS SHEET.
- 9. NEW LOCATION OF EXISTING GATE AND OPERATOR, SEE BID NOTES ON THIS SHEET.
- 10. DUMPSTER AREA.
- 11. NEW CARD CONTROLLED MAN GATE.
- 12. LANDSCAPED AREA, RE: LANDSCAPE.

BID NOTES

BASE BID:

SHEET NOTE 7: CHAIN LINK 300 VERTICAL PIVOT GATE SYSTEM BY AUTOGATE, INSTALLED PER MANUFACTURERS RECOMMENDATIONS.

SHEET NOTE 8: 8' CHAIN LINK WITH PRIVACY SLATS AND BARBED WIRE.

SHEET NOTE 9: NEW LOCATION OF EXISTING GATE. RELOCATE AND UTILIZE EXISTING GATE OPERATOR, EXIT ONLY.

BID ALTERNATE 1:

SHEET NOTE 7: 8' 500 BUCKEYE VERTICAL PIVOT GATE SYSTEM BY AUTOGATE, INSTALLED PER MANUFACTURERS RECOMMENDATIONS.

SHEET NOTE 8: 8' V2 3 RAIL PRESSED SPEAR FENCING BY FORTRESS BUILDING PRODUCTS, OR APPROVED EQUAL.

SHEET NOTE 9: 8' V2 3 RAIL PRESSED SPEAR/FLAT BOTTOM DRIVE GATE BY FORTRESS BUILDING PRODUCTS, OR APPROVED EQUAL. RELOCATE AND UTILIZE EXISTING GATE OPERATOR, EXIT ONLY.



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ON GARDEN

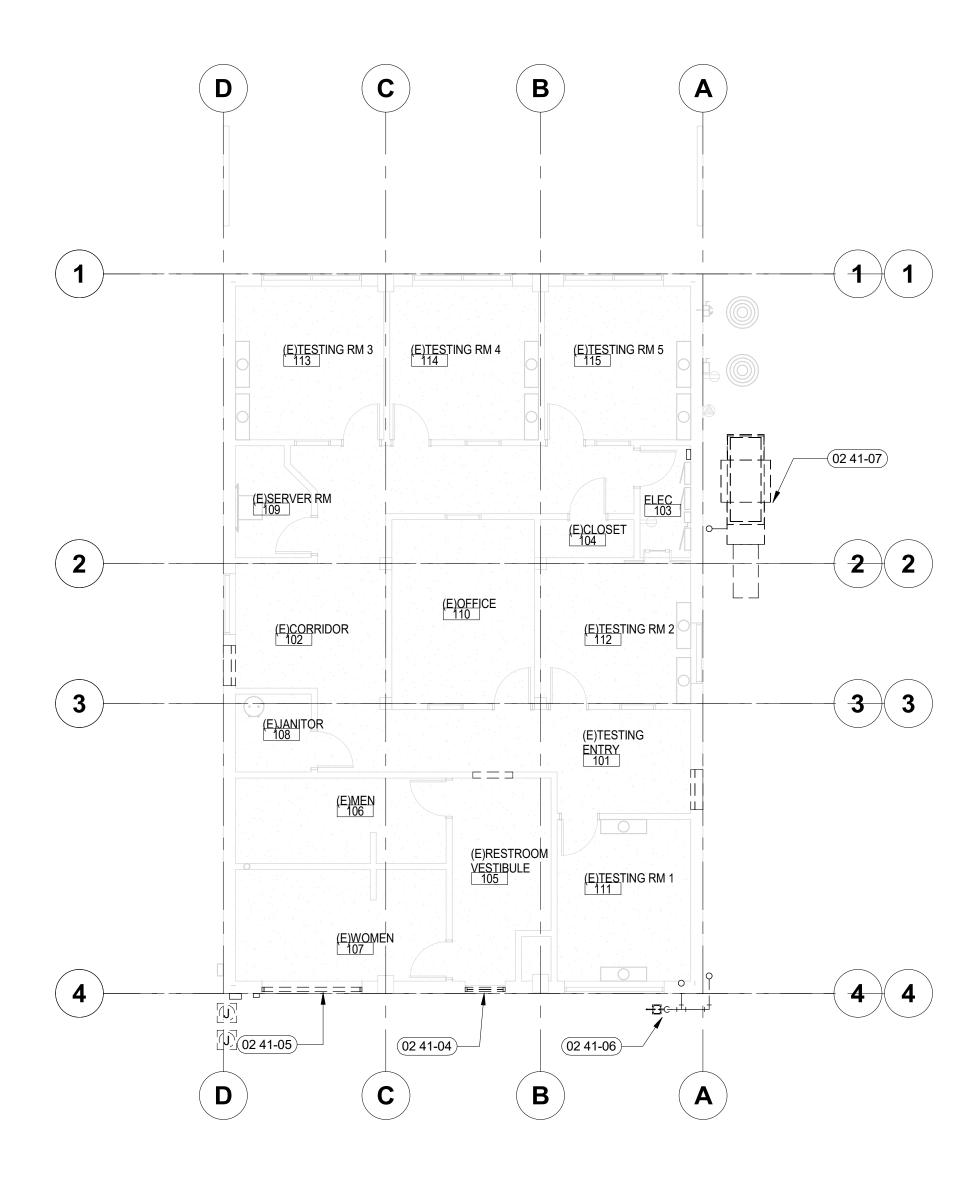
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SHEET TITLE SITE **IMPROVEMENT PLAN**

ORIGINAL SHEET SIZE



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

.024 7:48:28 AM

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.
- 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.
- 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.

SHEET NOTES:

02 41-04 DEMO AND REMOVE DOOR, FRAME AND ASSOCIATED ITEMS.
02 41-05 DEMO AND REMOVE WINDOW, FRAME AND ASSOCIATED ITEMS.
02 41-06 DEMO AND REMOVE GAS METER, RE: PLUMBING FOR EXTENT OF WORK.
02 41-07 DEMO AND REMOVE MECHANICAL UNIT, CW/ MECHANICAL DEMO PLAN

LICENSED

ARCHITECT ORIGINAL DOCUMENT SIGNED BY

AR-384113 ARCHITECT ON FILE WITH THE

OWNER

ORIGINAL SIGNED BY:

JAMES A MARSH

ORIGINAL DATE SIGNED:

APPRIL 16, 2024

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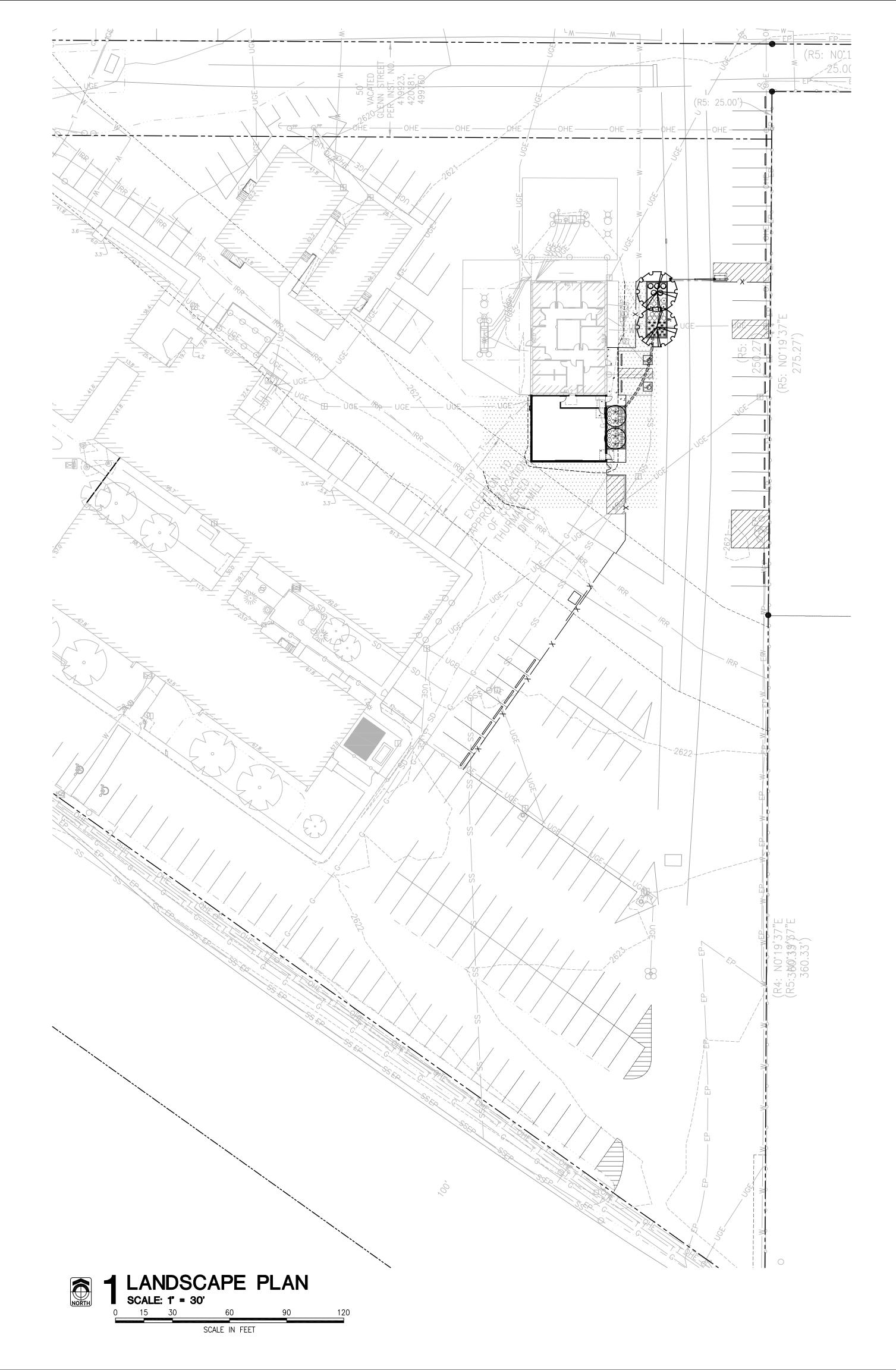
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SHEET TITLE

DEMO PLAN

SHEET



IRRIGATION LEGEND

SYMBOL	MANUFACT	MODEL	DESCRIPTION
No. Size GPM	RAINBIRD	CONTROL ZONE KIT, FILTER, PRV. XCZ-PRB-100-COM (3-20 GPM)	
	RAINBIRD	XFS SUBSURFACE DRIPLINE AT 18" SPACING	
С	RAINBIRD	ESP-LXME IRRIGATION CONTROLLER-WALL MOUNT FIRE RISER ROOM. PROVIDE ELECTRIC POWER TO CONTROLLER.	
	BUCKNER	VBM SERIES	ISOLATION VALVE-LINE SIZE
	BUCKNER	VBM SERIES - 3/4"	MANUAL DRAIN VALVE
7	WILKINS	MODEL 975XL	REDUCED PRESSURE BACKFLOW PREVENTER & STRONGBOX COVER. INSTALL PER LOCAL CODES AND CONDITIONS.
	PWPIPE (OR EQUAL)	PVC CLASS 200	1.25" MAINLINE
	PWPIPE (OR EQUAL)	PVC CLASS 200	LATERAL PIPE—WATER VELOCITY SHALL NOT EXCEED 5' PER SECOND
======	PWPIPE (OR EQUAL)	PVC CLASS 200	4" SLEEVES OR 2 SIZES LARGER THAN PIPE. 2" FOR ELECTRIC VALVE WIRING
•	RAINBIRD	33DRC QC VALVE 33 DK VALVE KEY SH-0 HOSE SWIVEL QUICK COUPLING VALVE WITH ASSOC VALVE KEY, AND HOSE SWIVEL	

IRRIGATION NOTES

- CONFIRM PSI IS ADEQUATE PRIOR TO COMMENCING WORK. SHOULD THE PSI BE LESS THAN ADEQUATE, NOTIFY THE ARCHITECT IMMEDIATELY. IN THE EVENT PRESSURE DIFFERENCES ARE NOT REPORTED IN WRITING PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY NECESSARY REVISIONS.
- THE CONTRACTOR IS RESPONSIBLE TO FURNISH AND INSTALL A COMPLETE IRRIGATION SYSTEM WHICH PROVIDES ADEQUATE WATER COVERAGE TO ALL LAWN AND PLANTING AREAS AS SHOWN ON THE DRAWINGS. THE WORK SHALL CONSIST OF PROVIDING AND INSTALLING ALL MATERIALS NECESSARY FOR A COMPLETE SYSTEM INCLUDING PIPE, VALVES, FITTINGS, HEADS, AUTOMATIC CONTROLS, AND ALL LABOR. THE CONTRACTOR SHALL FURNISH THE ARCHITECT WITH A SHOP DRAWING SHOWING THE DESIGN LAYOUT, PIPE SIZE, VALVE LOCATIONS, HEAD LOCATIONS, ETC. FOR APPROVAL PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL NOT INSTALL THE SPRINKLER SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT SITE CONDITIONS INHIBIT THE SPRINKLER SYSTEM FROM PERFORMING AS INTENDED. IN THE EVENT THAT THE ARCHITECT IS NOT NOTIFIED IN WRITING THAT SUCH CONDITIONS EXIST, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS AND REPAIR WORK NECESSARY.
- DRAWINGS ARE CONCEPTUAL IN NATURE. ACTUAL PLACEMENT OF SPRAY HEADS, VALVES, LINES, ETC. WILL VARY. ALL PIPING, VALVES, ETC. SHOWN WITHIN PAVED AREAS ARE FOR DESIGN CLARIFICATION ONLY. INSTALL PIPING AND VALVES IN PLANTING AREAS WHERE POSSIBLE, AND LOCATE ELECTRIC CONTROL AND QUICK COUPLING VALVES IN GROUND COVER/SHRUB AREAS, 6" TO 12" AWAY FROM EDGE OF PAVEMENT FOR EASE OF ACCESS. CONTRACTOR IS RESPONSIBLE FOR INSTALLING A WORKING SYSTEM THAT MAINTAINS PROPER COVERAGE, EVEN IF MINOR ADJUSTMENTS ARE NECESSARY. NO IRRIGATION WATER IS TO SPRAY ON BUILDING WALLS, SIGNS, OR SIDEWALKS.
- 4" POP-UPS ARE TO BE USED IN ALL LAWN AREAS. 12" POP-UPS ARE TO BE USED IN ALL PLANTER BEDS. (WHERE APPLICABLE)
- IF CIRCUIT PIPE SIZES ARE NOT SHOWN ON THE DRAWING, THE IRRIGATION CONTRACTOR IS RESPONSIBLE TO SIZE CIRCUIT PIPING. WATER VELOCITY IN ALL PIPES SHALL NOT EXCEED FIVE FEET PER SECOND. MINIMUM PIPE SIZE TO BE 1". POLYETHYLENE PIPE SHALL NOT BE
- CONTRACTOR IS RESPONSIBLE FOR INSTALLING SLEEVES UNDER ALL ROADWAY, PARKING, AND WALKWAY SURFACES. EXTEND 6" MINIMUM BEYOND SURFACE EDGE. IDENTIFY ENDPOINTS OF SLEEVING. REPORT ALL PROPOSED CHANGES IN SYSTEM DESIGN TO THE ARCHITECT PRIOR
- ALL IRRIGATION HEADS LOCATED ADJACENT TO ROAD SURFACES NOT PROTECTED BY A VERTICAL CONCRETE CURB SHALL BE PLACED 18" FROM THE EDGE OF THE ROAD SURFACE.
- IRRIGATION CONTRACTOR TO INSTALL MANUAL DRAIN VALVES AT ALL LOW POINTS ON THE
- USE ADJUSTABLE SPRAY NOZZLES WHERE NECESSARY TO ADJUST SPRAY ARC.
- WHERE APPLICABLE, CONTRACTOR IS RESPONSIBLE TO PROVIDE 120 VOLT POWER AND ALL REQUIRED CIRCUITS FROM THE ELECTRICAL PANEL TO THE IRRIGATION CONTROLLER. SIZE WIRE AND CONDUIT AS REQUIRED.
- CONTRACTOR IS RESPONSIBLE TO REPAIR ALL EXISTING IRRIGATION COMPONENTS DAMAGED AS A RESULT OF NEW CONSTRUCTION, INCLUDING ADJACENT PROPERTIES. RE: CIVIL PLANS, SITE ELECTRICAL PLANS. REPAIR INCLUDES BUT IS NOT LIMITED TO PIPING; VALVES; HEADS; DRIP COMPONENTS; CONTROL WIRES AND EQUIPMENT; AND SLEEVES.
- CONTRACTOR IS RESPONSIBLE TO VERIFY ALL QUANTITIES PROVIDED ON ALL PLANS. IF QUANTITIES LISTED DO NOT CORRELATE WITH WHAT IS SHOWN ON THE PLAN, THE QUANTITIES SHOWN ON THE PLAN SHALL GOVERN. THIS INCLUDES BUT IS NOT LIMITED TO TREE, SHRUB, ROCK, TOPSOIL, MULCH, SEED OR SOD, EDGING, AND DRIP LINE QUANTITIES.

LANDSCAPE LEGEND

	SYM	COMMON NAME/BOTANICAL NAME	PLANTING SIZE		
	TREES				
		Skyline Honeylocust/Gleditsia triacanthos inermis 'Skyline'	2" caliper		
		Dwf. White Flowering Pear/Pyrus calleryana 'jaczam'	2" caliper		
	SHRUBS				
	SYM	COMMON NAME / BOTANICAL NAME	PLANTING SIZE		
	⊙	1 gallon			
	0	2 gallon			
_	⊙	2 gallon			
	* Black Eyed Susan/Rudbeckia hirta				
	Autumn Joy Sedum/Sedum telephium 'Autumn Joy'				
	0	Red Yucca/Hesperaloe parviflora	2 gallon		
Ξ.	*	5 gallon			

PLANTING NOTES

- IMMEDIATELY AFTER AWARD OF CONTRACT, NOTIFY THE ARCHITECT OF AVAILABILITY OF SPECIFIED PLANT MATERIAL FROM COMMERCIAL NURSERIES. IF A SPECIFIED PLANT IS NOT AVAILABLE, THE ARCHITECT WILL PROVIDE ALTERNATE PLANT MATERIAL SELECTIONS. SUCH CHANGES SHALL NOT ALTER THE ORIGINAL BID PRICE UNLESS A CREDIT IS DUE TO THE
- VERIFY LOCATIONS OF ALL EXISTING UNDERGROUND UTILITY SYSTEMS PRIOR TO BEGINNING ANY PHASE OF CONSTRUCTION THAT MAY CAUSE DAMAGE TO SUCH SYSTEMS. CALL 1-800-642-2444 TO LOCATE EXISTING UTILITIES. REPAIR / REPLACE DAMAGED UTILITIES TO THE SATISFACTION OF THE OWNER OR GOVERNING AGENCY, AND AT NO ADDITIONAL COST TO THE OWNER OR INCREASE IN BID AMOUNT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING ALL PLANTED AREAS. ALL DELETERIOUS MATERIAL SUCH AS ROCK, TRASH, CONSTRUCTION DEBRIS, AGGREGATE BASE MATERIAL, ASPHALT, ETC.., SHALL BE REMOVED PRIOR TO ANY FILL OPERATIONS. RIP SUB GRADE AS PER SPECIFICATIONS. FILL ALL PLANTING AREAS WITH CLEAN EARTHEN FILL, AS PER SPECIFICATIONS. SOIL SHALL BE FREE OF HEAVY, STIFF CLAY AND ANY DELETERIOUS MATERIAL OVER ONE INCH IN SIZE. THE TOP SIX INCHES OF FILL MATERIAL SHALL BE TOPSOIL EQUAL TO THAT REQUIRED IN THE SPECIFICATIONS. CLEAN TOPSOIL STRIPPED FROM SITE MAY BE UTILIZED FOR PLANTER OR TOPSOIL FILL IF PRIOR APPROVAL HAS BEEN OBTAINED FROM THE ARCHITECT.
- EXCAVATED PLANT PITS SHALL HAVE POSITIVE DRAINAGE. PLANT PITS (WHEN FULLY FLOODED WITH WATER) SHALL DRAIN WITHIN 1 HOUR OF FILLING. ENSURE THAT ALL PLANT PITS HAVE POSITIVE DRAINAGE.
- PROVIDE REQUIRED SOIL EROSION CONTROL MEASURES THROUGHOUT THE DURATION OF THE CONTRACT PERIOD. SHOULD THERE BE EXISTING SOIL EROSION CONDITIONS THAT REQUIRE MITIGATION, NOTIFY THE ARCHITECT IMMEDIATELY.
- ALL PLANTER BEDS SHALL RECEIVE A 5" DEEP LAYER OF SHREDDED BARK MULCH. WOOD FIBER SHOULD NOT BE DYED ANY COLOR. NO LANDSCAPE FABRIC SHALL BE USED FOR
- TOPSOIL DEPTHS SHALL BE AS FOLLOWS (WHERE APPLICABLE): LAWN AREAS-6" MIN.; PLANTER BEDS - 12" MIN.; CURB ISLANDS - 18" MIN. TOP SOIL SHALL BE WEED FREE.
- CONTRACTOR IS RESPONSIBLE TO REPAIR ALL LANDSCAPE PLANTING AREAS DAMAGED AS A RESULT OF NEW CONSTRUCTION. RE: CIVIL PLANS, SITE ELECTRICAL PLANS. REPAIR INCLUDES BUT IS NOT LIMITED TO TREES, SHRUBS GROUNDCOVER AND LAWN; MULCH; TOPSOIL; EDGING; LANDSCAPE FABRIC.
- ALL PLANTING BEDS SHALL BE TREATED WITH A PRE-EMERGENT HERBICIDE. PRE-EMERGENT HERBICIDE SHALL BE APPLIED PER MANUFACTURER'S RECOMMENDATIONS AND SHALL OCCUR AFTER TOPSOIL PLACEMENT AND PRIOR TO INSTALLATION OF PLANT MATERIALS AND MULCH.
- CONTRACTOR IS RESPONSIBLE TO VERIFY ALL QUANTITIES PROVIDED ON ALL PLANS. IF QUANTITIES LISTED DO NOT CORRELATE WITH WHAT IS SHOWN ON THE PLAN, THE QUANTITIES SHOWN ON THE PLAN SHALL GOVERN. THIS INCLUDES BUT IS NOT LIMITED TO TREE, SHRUB, ROCK, TOPSOIL, MULCH, SEED OR SOD, EDGING, AND DRIP LINE QUANTITIES.
- SOIL AMENDMENT: PRIOR TO THE INSTALLATION OF LAWN OR OTHER PLANT MATERIALS IN AREAS THAT HAVE BEEN DISTURBED OR COMPACTED BY CONSTRUCTION ACTIVITY, SOILS SHALL BE AMENDED TO INCREASE SOIL WATER HOLDING CAPACITY. PROPER SOIL AMENDMENT INCLUDES THOROUGHLY LOOSENING SOILS TO A DEPTH OF SIX INCHES, ADDING COMPOST AS A SOIL AMENDMENT AT A RATE OF FOUR CUBIC YARDS PER 1,000 SQUARE FEET OF TOTAL AREA TO BE PLANTED, AND THOROUGHLY INCORPORATING COMPOST TO A DEPTH OF AT LEAST TWO INCHES.



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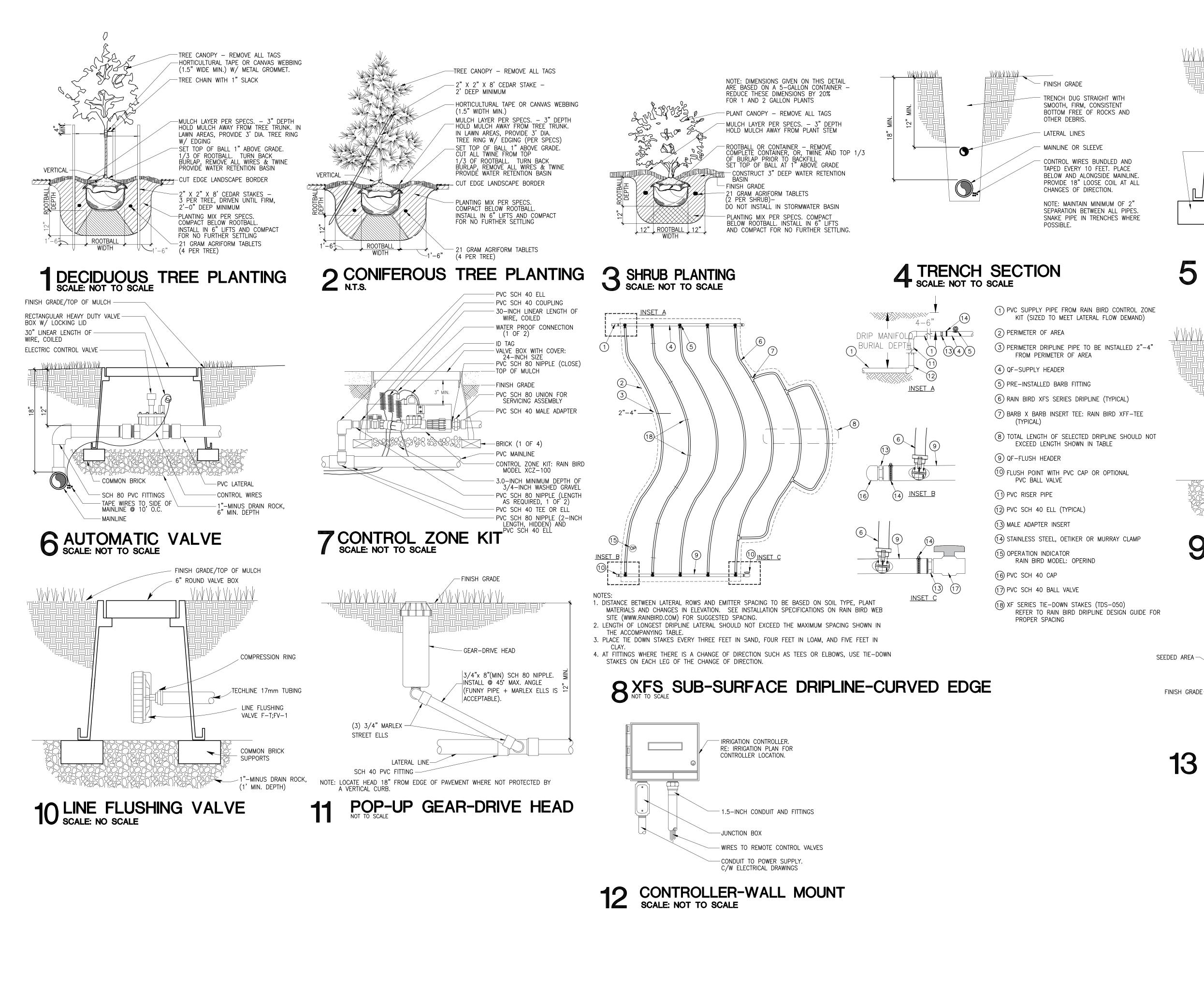
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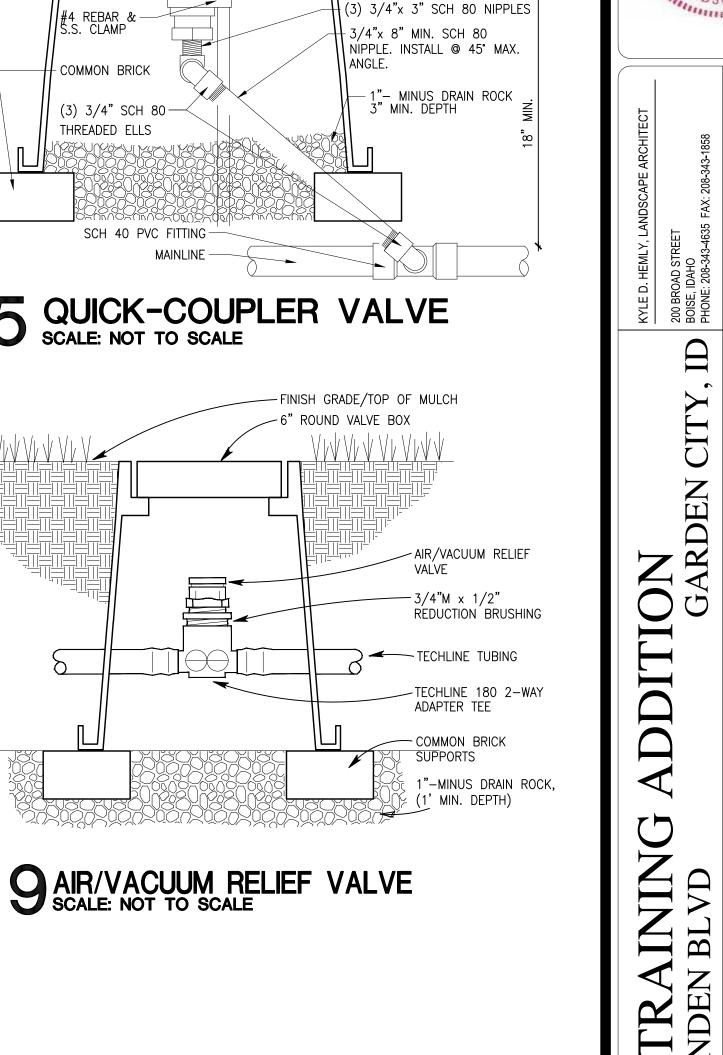
LANDSCAPE **PLAN**

ORIGINAL SHEET SIZE





CUT EDGE



BARK MULCH AT EDGE

- FINISH GRADE

3/4" QUICK-COUPLER VALVE

10" ROUND VALVE BOX-





LA-264 04/19/24

ORIGINAL SHEET SIZE 24" x 36"

PERMIT

SET

PROJECT 24009

DRAWN

SHEET TITLE

DATE

04-11-24

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KDH

LANDSCAPE

DETAILS

2.8 VALVE BOX: Thermoplastic. Size as required for access; maximum of two valves per

A. General: Furnish low voltage system manufactured expressly for control of automatic

B. Exterior Control Enclosure: Manufacturer's standard weatherproof enclosure with

C. Interior Control Enclosures: Manufacturer's standard with locking cover, complying with NFPA 70. Coordinate location with electrical plans.

E. Circuit Control: Each circuit variable from approximately 5 to 60 minutes. Include

2.11 DRAINAGE BACKFILL: Cleaned gravel or crushed stone, graded from 3" maximum to

A. Investigate and determine available water supply water pressure and flow

A. Set stakes to identify proposed sprinkler locations. Obtain Owner's approval before

D. Transformer: To convert building service voltage to control voltage of 24 volts.

circuit valves of underground irrigation systems. Provide unit of capacity to suit

2.9 VALVE COVER AND FRAME: Thermoplastic snap-top lid with provision for locking.

locking cover, complying with NEC (National Electric Code).

switch for manual or automatic operation of each circuit.

F. Timing Device: Adjustable, 24_hour and 7 or 14_day period.

2.10 AUTOMATIC CONTROL SYSTEM

PART 3 - EXECUTION

3.1 EXAMINATION

3.2 PREPARATION

2. Circuit Pipe: 12". 3. Sleeves: 18". D. Backflow Preventer: Provide union on downstream side. E. Water Hammer Arrester: Install between connection to building main and circuit valves, inside building or in valve box. F. Circuit Valves: Install in valve box, arranged for easy adjustment and removal. Provide union on downstream side 2. Adjust automatic control valves to provide flow rate of rated operating pressure required for each sprinkler circuit. G. Piping: Lay pipe on solid subbase, uniformly sloped without humps or 1. For circuit piping, slope to drain valve at least 1/2" in 10' of run. 2. At wall penetrations, pack the opening around pie with non-shrink grout. At exterior face, leave a perimeter slot approximately 1/2" wide by 3/4" deep. Fill this slot with backer rod and an acceptable elastomeric sealant. Repair below grade waterproofing disturbed by this work and make penetration 3. Install PVC pipe in dry weather when temperature is above 40 degrees F (4 degrees C) before testing, unless otherwise recommended by manufacturer. H. Sprinkler Heads: Flush circuit lines with full head of water and install heads after hydrostatic test is complete. Install lawn heads at manufacturer's recommended heights. 2. Install shrubbery heads at heights indicated 3. Locate part-circle heads to maintain a minimum distance of 4" from walls and 2" from other boundaries, unless otherwise indicated. Dielectric Protection: Use dielectric fittings at connection where pipes of dissimilar metal are joined. A. Testing: Perform hydrostatic test of piping and valves before backfilling trenches. Piping may be tested in sections to expedite work. 1. Cap and subject the piping system to a static water pressure of 50 psig (345 kPa) above the operating pressure without exceeding pressure rating of piping system materials. Isolate test source and allow to stand for 4 hours. Leaks and loss in test pressure constitute defects that must be repaired. 2. Repair leaks and defects with new materials and retest system or portion thereof until satisfactory results are obtained. 3.5 CLEANING AND ADJUSTING A. Flush dirt and debris from piping before installing sprinklers and other devices. B. Adjust automatic control valves to provide flow rate of rated operating pressure required for each sprinkler circuit. C. Carefully adjust lawn sprinklers so they will be flush with, or not more than 1/2 inch (13 mm) above, finish grade after completion of landscape work. D. Adjust settings of controllers and automatic control valves. A. Demonstrate to Owner that system meets coverage requirements and that B. Demonstrate to Owner's maintenance personnel operation of equipment, sprinklers, specialties, and accessories. Review operating and maintenance information. C. Provide 7 day written notice in advance of demonstration

INSTALLATION

provide a complete connection.

1. Mainline: 18".

B. Connection to Main: As indicated on drawings

SECTION 329300 - PLANTS A. General: Unless otherwise indicated, comply with requirements of Uniform Plumbing Code. PART 1 _ GENERAL 1. As a minimum, install tee, valve, union and other fittings as needed to A. This Section includes the following: C. Minimum Cover: Provide following minimum cover over top of installed piping: Shrubs. Ground covers. Plants. Lawns. Topsoil and soil amendments. 1.3 SUBMITTALS 1.4 QUALITY ASSURANCE by parties concerned. Trees. Shrubs. failure to comply with requirements. 1.9 TREE AND SHRUB MAINTENANCE 1. Maintenance Period: 30 days following Substantial Completion.

7. Initial maintenance of landscape materials B. Related Sections: The following Sections contain requirements that relate to this Section: Division 32 Section "Planting Irrigation". A. General: Submit each item in this Article according to the Conditions of the Contract and Division B. Product certificates signed by manufacturer certifying that their products comply with specified requirements. 1. Manufacturer's certified analysis for standard products. Analysis for other materials by a recognized laboratory made according to methods established by the Association of Official Analytical Chemists, where applicable. 3. Label data substantiating that plants, trees, shrubs, and planting materials comply with specified

C. Planting schedule indicating anticipated dates and locations for each type of planting. A Installer Qualifications: Engage an experienced Installer who has completed landscaping work similar in material, design, and extent to that indicated for this Project and with a record of successful landscape

 Installer's Field Supervision: Require Installer to maintain an experienced full_time supervisor on the Project site during times that landscaping is in progress. B. Provide quality, size, genus, species, and variety of trees and shrubs indicated, complying with applicable requirements of ANSI Z60.1 "American Standard for Nursery Stock."

C. Topsoil Analysis: Furnish a soil analysis made by a qualified independent soil_testing agency stating percentages of organic matter, inorganic matter (silt, clay, and sand), deleterious material, pH, and mineral and plant _ nutrient content of topsoil.

1. Report suitability of topsoil for growth of applicable planting material. State recommended quantities of nitrogen, phosphorus, and potash nutrients and any limestone, aluminum sulfate, or other soil amendments to be added to produce a satisfactory topsoil.

D. Measurements: Measure trees and shrubs according to ANSI Z60.1 with branches and trunks or canes in their normal position. Do not prune to obtain required sizes. Take caliper measurements 6 inches (150 mm) above ground for trees up to 4_inch (100_mm) caliper size, and 12 inches (300 mm) above ground for larger sizes. Measure main body of tree or shrub for height and spread; do not measure branches or

E. Preinstallation Conference: General Contractor to conduct conference at project site for planting coordination to verify compliance with requirements of project plans and local jurisdiction responsible for approval of the

A. Packaged Materials: Deliver packaged materials in containers showing weight, analysis, and name of manufacturer. Protect materials from deterioration during delivery and while stored at site.

B. Seed: Deliver seed in original sealed, labeled, and undamaged containers C. Trees and Shrubs: Deliver freshly dug trees and shrubs. Do not prune before delivery, except as approved by Owner. Protect bark, branchés, and root systems from sun scald, drying, sweating, whipping, and other handling and tying damage. Do not bend or bind_tie trees or shrubs in such a manner as to destroy natural shape. Provide protective covering during delivery. Do not drop trees and shrubs during delivery. 1. Immediately after digging bare_root stock, pack root system in wet straw, hay, or other suitable material to keep root system moist until planting.

D. Handle balled and burlapped stock by the root ball.

E. Deliver trees, shrubs, ground covers, and plants after preparations for planting have been completed and install immediately. If planting is delayed more than 6 hours after delivery, set planting materials in shade, protect from weather and mechanical damage, and keep roots moist. 1. Heel_in bare_root stock. Soak roots in water for 2 hours if dried out.

2. Set balled stock on ground and cover ball with soil, peat moss, sawdust, or other acceptable material. Do not remove container_grown stock from containers before time of planting.

4. Water root systems of trees and shrubs stored on site with a fine_mist spray. Water as often as necessary to maintain root systems in a moist condition.

A. Utilities: Determine location of above grade and underground utilities and perform work in a manner which

will avoid damage. Hand excavate, as required. Maintain grade stakes until removal is mutually agreed upon B. Excavation: When conditions detrimental to plant growth are encountered, such as rubble fill, adverse drainage conditions, or obstructions, notify Owner before planting.

1.7 COORDINATION AND SCHEDULING

A. Coordinate installation of planting materials during normal planting seasons for each type of plant material

A. General Warranty: The special warranty specified in this Article shall not deprive the Owner of other rights the Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by the GC under requirements of the Contract Documents. Substantial Completion, against defects including death and unsatisfactory growth, except for defects resulting

B. Special Warranty: Warrant the following living planting materials for a period of one year after date of from lack of adequate maintenance, neglect, or abuse by Owner, abnormal weather conditions unusual for warranty period, or incidents that are beyond GC's control.

C. Remove and replace dead planting materials immediately unless required to plant in the succeeding planting D. Replace planting materials that are more than 25 percent dead or in an unhealthy condition at end of E. A limit of one replacement of each plant material will be required, except for losses or replacements due to

A. Maintain trees and shrubs by pruning, cultivating, watering, weeding, fertilizing, restoring planting saucers, tightening and repairing stakes and guy supports, and resetting to proper grades or vertical position, as required to establish healthy, viable plantings. Spray as required to keep trees and shrubs free of insects and disease. Restore or replace damaged tree wrappings. Maintain trees and shrubs for the following

A. Begin maintenance of lawns immediately after each area is planted and continue until acceptable lawn is established, but for not less than the following periods: 1. Sodded Lawns: 30 days after date of Substantial Completion B. Maintain and establish lawns by watering, fertilizing, weeding, mowing, trimming, replanting, and other

operations. Roll, regrade, and replant bare or eroded areas and remulch to produce a uniformly smooth C. Watering: Provide and maintain temporary piping, hoses, and lawn_watering equipment to convey water from sources and to keep lawns uniformly moist to a depth of 4 inches (100 mm). 1. Water lawn at the minimum rate of 1 inch (25 mm) per week.

D. Mow lawns as soon as there is enough top growth to cut with mower set at specified height for principal species planted. Repeat mowing as required to maintain specified height without cutting more than 40 percent of the grass height. Remove no more than 40 percent of grass_leaf growth in initial or subsequent mowings. Do not delay mowing until grass blades bend over and become matted. Do not mow when grass

E. Postfertilization: Apply fertilizer to lawn after first mowing and when grass is dry. 1. Use fertilizer that will provide actual nitrogen of at least 1 lb per 1000 sq. ft. (0.5 kg per 100 sq. m) of PART 2 _ PRODUCTS

2.1 TREE AND SHRUB MATERIAL

A. Provide trees, shrubs and other plants of size, genus, species, and variety which are appropriate for the geographic area and local conditions of the site, and complying with recommendations and requirements of ANSI Z60.1 American Standard for Nursery Stock.

B. Provide deciduous trees (sized per plans) with branching, configuration recommended by ANSI Z60.1 for type and species required. Provide single stem deciduous trees, balled

C. Provide deciduous shrubs (sized per plans) with not less than the minimum number of canes required by ANSI Z60.1 for type and height of shrub required. Provide deciduous shrubs, balled and burlapped (B&B).

D. Provide coniferous evergreen trees (sized per plans) and coniferous and broadleaf evergreen shrubs (sized per plans). Creeping or prostrate type conifers shall have a minimum spread of 18". Provide normal quality evergreens with well balanced form complying with requirements for other size relationships to the primary dimension shown. Provide balled and burlapped (B&B) evergreens.

A. Sod: Certified turfgrass sod complying with ASPA specifications for machine—cut thickness, size, strength, moisture content, and mowed height, and free of weeds and undesirable native grasses. Provide viable sod of uniform density, color, and texture of the following turfgrass species, strongly rooted, and capable of vigorous growth and development when planted.

1. Species: As indicated on Drawings. B. Seed: Provide fresh, clean, new—crop grass seed complying with tolerance for purity and germination established by Official Seed Analysis of North America. Provide seed mixture composed of grass species, with a minimum purity of 85%, minimum germination of 75%, and a maximum of 1% weed seed. The seed mixture shall have been tested for germination and purity by acceptable methods within a nine month period prior to delivery.

A. Provide plants established and well rooted in removable containers or integral peat pots.

A. Anti-Desiccant: Emulsion type, film-forming agent designed to permit transpiration, but retard excessive loss of moisture from plants. Deliver in manufacturer's fully identified

containers and mix in accordance with manufacturer's instructions. B. Filtration/Separation Fabric: Water permeable filtration fabric of fiberglass or

C. Wrapping: Tree—wrap tape not less than 4 inches wide, designed to prevent borer damage and winter freezing.

D. Stakes and Guvs: Provide stakes and deadmen of sound new hardwood, treated softwood, or redwood, free of knot holes and other defects. Provide wire ties and guys of 2 strand, twisted, pliable galvanized iron wire, not lighter than 12 ga. With zinc-coated turnbuckles. Provide not less than 1/2 inch diameter rubber of plastic hose, cut to required lengths and of uniform color, material and size to protect tree trunks from damage by wires.

A. Topsoil: ASTM D 5268, pH range of 5.5 to 7, 4 percent organic material minimum, free of stones 1 inch (25 mm) or larger in any dimension, and other extraneous materials harmful to plant growth.

1. Topsoil Source: Reuse surface soil stockpiled on the site. Verify suitability of surface soil to produce topsoil meeting requirements and amend when necessary Supplement with imported topsoil when quantities are insufficient. Clean topsoil of roots, plants, sods, stones, clay lumps, and other extraneous materials harmful to plant growth. Topsoil Thickness:

a. Sod Grass: 6 inches.

b. Planter Beds: 12 inches.

c. Curb Islands: 18 inches.

A. Lime: ASTM C 602, Class T, agricultural limestone containing a minimum 80 percent calcium carbonate equivalent, with a minimum 99 percent passing a No. 8 (2.36 mm) sieve and a minimum 75 percent passing a No. 60 (250 micrometer) sieve.

B. Peat Humus: Finely divided peat, so completely decomposed and free of fibers that its biological identity is lost. Provide in granular form, free of hard lumps and with pH range suitable for intended use.

C. Mulch: A five (5) pound sample of mulch shall be submitted to Architect prior to delivery to site. Mulch shall be free from deleterious materials and suitable for top dressing of trees, shrubs, or plants.

derived from organic sources and containing following percentages of available plant 1. For trees and shrubs, provide fertilizer with not less than 5 percent total nitrogen, 10 percent available phosphoric acid and 5 percent soluble potas 2. For lawns, provide fertilizer with percentage of nitrogen required to provide not less than 1 pound actual nitrogen per 1,000 sq. Ft. of lawn area and not less than 4

percent phosphoric acid and 2 percent potassium. Provide nitrogen in a form that will be available to lawn during initial period of growth; at least 50 percent of nitrogen to be organic form.

LA-264

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PERMIT

PROJECT DATE 24009 04-11-24 CHECKED DRAWN KDH

REVISED LANDSCAPE

SPECIFICATIONS

SHEET TITLE

- A. CONSTRUCTION DOCUMENTS
- THE CONTRACTOR SHALL REVIEW THE APPROVED CONSTRUCTION DOCUMENTS AND NOTIFY THE ENGINEER OF ANY ERRORS OR DISCREPANCIES PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL REVIEW THE APPROVED CONSTRUCTION
- DOCUMENTS AND NOTIFY THE ENGINEER OF ANY ERRORS OR DISCREPANCIES PRIOR TO THE START OF CONSTRUCTION. 3. CONTRACTOR IS RESPONSIBLE FOR USING QUALIFIED SUB CONTRACTORS EXPERIENCED IN THIS TYPE OF CONSTRUCTION.
- 4. THE CONTRACTOR SHALL FURNISH AND INSTALL EVERYTHING REQUIRED TO PROVIDE A COMPLETE STRUCTURE AS SHOWN HEREIN. IF THERE IS AN OMISSION ON THE PLANS, SUCH OMISSION SHALL NOT BE CONSTRUED TO MEAN THAT THE CONTRACTOR IS NOT REQUIRED TO FURNISH OR PROVIDE EVERYTHING THAT IS NECESSARY TO COMPLETE THE PROJECT TO THE MINIMUM REQUIREMENTS OF THE 2018 INTERNATIONAL BUILDING CODE AND

ALL OTHER SPECIFICATIONS, CODES AND STANDARDS NOTED ON THE APPROVED CONSTRUCTION DOCUMENTS. 5. THE CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY IF ANY UNIDENTIFIED EXISTING UNDERGROUND UTILITIES ARE DISCOVERED. THE ENGINEER IS NOT RESPONSIBLE FOR THE

LOCATIONS OF EXISTING UNDERGROUND UTILITIES WHETHER OR

NOT SHOWN ON THE DRAWINGS. 6. THE APPROVED STRUCTURAL DRAWINGS ARE PART OF THE OVERALL CONSTRUCTION DOCUMENT SET AND SHALL BE REFERENCED IN CONJUNCTION WITH OTHER APPROVED CONSTRUCTION DOCUMENTS INCLUDING, BUT NOT LIMITED TO,

CIVIL, ARCHITECTURAL, MECHANICAL, ELECTRICAL, DOCUMENTS. a. SEE ARCHITECTURAL DRAWINGS FOR THE FOLLOWING: HORIZONTAL AND VERTICAL DIMENSIONS NOT SHOWN ON THE STRUCTURAL PLANS. SIZE AND LOCATIONS OF DOOR AND WINDOW OPENINGS. SIZE AND LOCATIONS OF ROOF AND FLOOR OPENINGS. SIZE AND LOCATIONS OF INTERIOR NON-BEARING AND NON STRUCTURAL WALLS. CEILING ASSEMBLIES; WALL, FLOOR AND ROOF FINISHES: AND HANDRAILS.

SEE MECHANICAL. PLUMBING. AND ELECTRICAL DRAWINGS FOR THE FOLLOWING: SIZE AND LOCATION OF PIPES, SLEEVES, AND DUCT PENETRATIONS. EQUIPMENT SIZES AND LOCATION. EQUIPMENT CURBS AND MOUNTING BRACKETS OR ANCHORS 7. THE STRUCTURAL DRAWINGS REPRESENT THE FINISHED

STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT ARE NOT LIMITED TO, BRACING AND/OR SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. CONTRACTOR AT HIS/HER OWN EXPENSE SHALL ENGAGE PROPERLY QUALIFIED PERSONS TO DESIGN BRACING, SHORING, ETC. OBSERVATION VISITS TO THE SITE BY THE ENGINEER SHALL NOT INCLUDE OBSERVATION OF THE ABOVE NOTED ITEMS.

8. UNDER NO CIRCUMSTANCES CAN STRUCTURAL COMPONENTS BE SUBSTITUTED, OMITTED, SPLICED, OR ALTERED FROM THE APPROVED SET OF CONSTRUCTION DOCUMENTS WITHOUT WRITTEN APPROVAL FROM THE ENGINEER.

B. DIMENSIONS AND NOTATIONS: WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS. DO NOT SCALE DRAWINGS.

FOR ANY MISSING DIMENSIONS REFER TO THE ARCHITECTURAL DRAWINGS OR THE DRAWINGS OF APPLICABLE TRADE.

ABBREVIATIONS USED ON THE APPROVED CONSTRUCTION DOCUMENTS SHALL BE CONSIDERED TYPICAL ABBREVIATIONS FOR THE INDUSTRY. THE CONTRACTOR SHALL BE RESPONSIBLE TO NOTIFY THE ENGINEER IMMEDIATELY OF ANY ABBREVIATIONS THAT

TYPICAL NOTES AND DETAILS: SPECIFIC NOTES AND DETAILS SHALL TAKE PRECEDENCE OVER STANDARD TYPICAL NOTES AND DETAILS.

ARE UNKNOWN TO THE CONTRACTOR.

STANDARD TYPICAL NOTES AND DETAILS ARE TO BE USED WHEN REFERRED TO OR WHEN NO OTHER MORE RESTRICTIVE OR DIFFERENT DETAILS ARE SHOWN ON THE DRAWINGS. WORK NOT PARTICULARLY SHOWN OR SPECIFIED SHALL BE THE

SAME AS SIMILAR PARTS THAT ARE SHOWN OR SPECIFIED. SHOP DRAWINGS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER IN A TIMELY FASHION PRIOR TO FABRICATION AND CONSTRUCTION, UNLESS OTHERWISE STATED, A MINIMUM OF 5 WORKING DAYS AFTER RECEIPT OF SHOP DRAWINGS SHALL BE CONSIDERED AN ACCEPTABLE TIME PERIOD FOR THE STRUCTURAL

ENGINEER REVIEW PROCESS. 2. A MINIMUM OF (2) HARD COPY SETS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW. THE STRUCTURAL ENGINEER WILL MAINTAIN (1) SET FOR REFERENCE PURPOSES. THE CONTRACTOR SHALL MAINTAIN (1) SET AT THE JOB SITE DURING

THE DURATION OF CONSTRUCTION. CONTRACTOR SHALL REVIEW AND STAMP SHOP DRAWINGS PRIOR TO SUBMISSION TO THE STRUCTURAL ENGINEER, CONTRACTOR SHALL REVIEW FOR COMPLETENESS AND COMPLIANCE WITH

CONTRACT DOCUMENTS. SHOP DRAWINGS ARE NOT A PART OF THE CONSTRUCTION DOCUMENTS. THE STRUCTURAL ENGINEER REVIEW DOES NOT GIVE PERMISSION TO DEVIATE FROM THE APPROVED CONSTRUCTION DOCUMENTS. WHERE THE SHOP DRAWINGS AND THE CONSTRUCTION DOCUMENTS DIFFER, THE MORE STRICT OF THE TWO SHALL GOVERN UNLESS WRITTEN APPROVAL FROM THE

STRUCTURAL ENGINEER PERMITS OTHERWISE. INSPECTIONS, SPECIAL INSPECTIONS, AND SITE VISITS (STRUCTURAL OBSERVATIONS):

INSPECTIONS BY THE BUILDING OFFICIAL ARE REQUIRED FOR CONSTRUCTION WORK FOR WHICH A PERMIT IS REQUIRED PER SECTION 110 OF THE IBC. CONTRACTOR IS REQUIRED TO COORDINATE AND SCHEDULE ALL REQUIRED INSPECTIONS WITH THE BUILDING OFFICIAL. INSPECTIONS PRESUMING TO GIVE AUTHORITY TO VIOLATE OR CANCEL PROVISIONS OF THE IBC OR OF OTHER ORDINANCES OF THE JURISDICTION SHALL NOT BE VALID.

SPECIAL INSPECTIONS ARE IN ADDITION TO, AND DO NOT REPLACE. THE INSPECTIONS BY THE BUILDING OFFICIAL PER CHAPTER 17 OF THE IBC. SPECIAL INSPECTIONS SHALL BE PERFORMED BY A QUALIFIED PERSON TO INSPECT AS REQUIRED ON THESE DOCUMENTS THE MATERIALS, INSTALLATION, FABRICATION, ERECTION OR PLACEMENT OF COMPONENTS AND CONNECTIONS REQUIRING SPECIAL EXPERTISE TO ENSURE COMPLIANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS.

SITE VISITS OR STRUCTURAL OBSERVATIONS BY THE STRUCTURAL ENGINEER DOES NOT INCLUDE OR WAIVE THE RESPONSIBILITY OF INSPECTIONS OR SPECIAL INSPECTIONS PER SECTION 110 AND CHAPTER 17 OF THE IBC. SITE VISITS ARE NOT CONTINUOUS OR DETAILED. SITE VISITS DO NOT VALIDATE CONTRACTORS PERFORMANCE, MEANS, OR METHODS. SITE VISITS ARE FOR VISUAL OBSERVATION FOR GENERAL CONFORMANCE TO THE APPROVED CONSTRUCTION DOCUMENTS.

F. CODE REQUIREMENTS: 1. ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE FOLLOWING CODES:

a. 2018 INTERNATIONAL BUILDING CODE (IBC) b. ANY OTHER REGULATING AGENCIES WHICH MAY HAVE AUTHORITY OVER ANY PORTION OF THE WORK, INCLUDING THE

STATE OF **IDAHO**. c. SPECIFICATIONS, CODES AND STANDARDS NOTED SHALL BE OF THE LATEST APPROVED ISSUE, INCLUDING SUPPLEMENTS,

UNLESS NOTED OTHERWISE. d. CONTRACTOR SHALL BE PROPERLY REGISTERED IN THE STATE OF **IDAHO** PER **IDAHO** STATE LAW.

ALL STRUCTURAL MATERIAL MUST HAVE CURRENT ICC-ES REPORTS AVAILABLE UPON REQUEST TO PROVE CODE APPROVAL & INDUSTRY TOLERANCES.

DESIGN CRITERIA

A. 2018 INTERNATIONAL BUILDING CODE (IBC)

RISK CATEGORY: II NATURE OF OCCUPANCY: ASSEMBLY

B. DESIGN LOADS:

a. LIVE LOAD = 25 PSF (SNOW) 2. FLOOR- LIVE LOADS: a. ASSEMBLY = 100 PSF

C. IBC SEISMIC DESIGN: SEISMIC DESIGN CATEGORY: (IMPORTANCE FACTOR I/E = 1.0

SOIL SITE CLASS: D . SEISMIC COEFFICIENTS:

• $S_{DS} = 0.33$ • $S_{D1} = 0.18$

 S₁ = 0.1 T₁ = 6s RESPONSE MODIFICATION: R= 2.0

 SEISMIC FORCE RESISTING SYSTEM: SIMPLE DIAPHRAGM 6. DESIGN BASE SHEAR:

 V= 0.165W 7. ANALYSIS PROCEDURE: EQUIV. LATERAL FORCE

D. IBC WIND LOAD: BASIC DESIGN WIND SPEED = 102 MPH

EXPOSURE = B ANALYSIS METHOD = ENVELOPE 4. DESIGN BASE PRESSURE:

P = 16 PSF

FOUNDATIONS

A. MAXIMUM ALLOWABLE FOUNDATION SOIL BEARING PRESSURE:

1500 PSF (DEAD + LIVE LOAD)

. 2000 PSF (GRAVITY + LATERAL LOAD) B. THE BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE 24 INCHES MINIMUM BELOW

ADJACENT FINISHED GRADE. C. THE INTERIOR FOOTINGS SHALL BE 12 INCHES MINIMUM BELOW FINISH FLOOR.

D. STRUCTURAL BACKFILL SHALL BE COMPACTED TO 95 PERCENT OF THE MAXIMUM DENSITY AS DETERMINED BY ASTM D1557. BRACE WALLS AND PIERS AS REQUIRED DURING BACKFILLING OPERATIONS.

1. STRUCTURAL WALLS - ANY LOAD BEARING WALL, SHEAR WALL, AND ANY WALL THAT REQUIRES A FOOTING.

CONCRETE

E. DEFINITIONS

A. REFERENCE STANDARDS:

1. ALL CONCRETE WORK SHALL CONFORM TO THE LATEST EDITION OF ACI 301 ALL CONCRETE SHALL BE NORMAL WEIGHT CONCRETE

3. CONCRETE MIX DESIGN SHALL BE ESTABLISHED IN ACCORDANCE WITH CHAPTER 5 OF ACI 318 4. USE LATEST EDITION OF ACI 306R WHEN CONCRETING DURING COLD WEATHER

B. SUBMITTALS: 1. SUPPLY PRODUCT DATA FOR PROPRIETARY MATERIALS AND ITEMS, INCLUDING REINFORCEMENT AND FORMING ACCESSORIES, ADMIXTURES, PATCHING

COMPOUNDS, JOINT SYSTEMS, CURING COMPOUNDS AND OTHERS. SHOP DRAWINGS FOR REINFORCEMENT DETAILING, FABRICATING, FOR BENDING, AND PLACING OF CONCRETE REINFORCEMENT SHALL COMPLY WITH ACI 315, MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES. BAR SCHEDULES, STIRRUP SPACING, BENT BAR DIAGRAMS, AND ARRANGEMENT OF CONCRETE REINFORCEMENT SHALL BE SHOWN. INCLUDE SPECIAL REINFORCING REQUIRED FOR OPENINGS THROUGH

C. FORMWORK AND FINISHES: 1. FORMWORK: DESIGN, ERECT, SUPPORT, BRACE AND MAINTAIN FORMWORK TO SUPPORT VERTICAL, LATERAL, STATIC AND DYNAMIC LOADS THAT MIGHT BE APPLIED UNTIL STRUCTURE CAN SUPPORT SUCH LOADS.

FINAL SLAB SURFACES SHALL RECEIVE A MACHINED STEEL TROWEL FINISH. 3. ANY PROJECTING CORNERS OF COLUMNS, BEAMS, WALLS, PEDESTALS, ETC SHALL BE FORMED WITH A 3/4 INCH CHAMFER.

4. DRY PACK, OR USE NON-SHRINK GROUT, UNDER BASE PLATES, BEARING PLATES, OR SILL PLATES AS REQUIRED FOR A LEVEL AND UNIFORM BEARING SURFACE. MINIMUM GROUT STRENGTH SHALL BE f'c = 7000 PSI, U.N.O. SEPARATE SLABS-ON-GRADE FROM VERTICAL SURFACES WITH JOINT FILLER.

D. MIX DESIGN, STRENGTH, AND ADMIXTURES: 28-DAY COMPRESSIVE STRENGTHS (f'c):

a. FOUNDATION STEM WALLS = 3500 PSI b. FOOTINGS = 3500 PSI

c. INTERIOR SLABS-ON-GRADE = 4000 PSI 2. CEMENT II OR I/II PER ASTM C-150

MAXIMUM SLUMP: a. PRIOR TO ADDITION OF WATER-REDUCING ADMIXTURE = 4"

b. WITH ADDITION OF WATER-REDUCING ADMIXTURE= 10"

4. MAXIMUM SIZE COARSE AGGREGATE: 3/4 INCHES (PER ASTM C-33) APPROVED ADMIXTURES:

a. FLYASH PER ASTM C-618 b. AIR ENTRAINING PER ASTM C-260

c. WATER REDUCING PER ASTM C-494

E. REINFORCEMENT:

REINFORCEMENT FOR CONCRETE:

a. ALL REINFORCING SHALL BE SUPPORTED IN FORMS SPACED WITH NECESSARY ACCESSORIES AND SHALL BE SECURELY WIRED TOGETHER IN ACCORDANCE WITH THE LATEST EDITION OF THE CRSI "MANUAL OF STANDARD PRACTICE"

b. DEFORMED BARS - ASTM A615, GRADE 60 c. WELDED WIRE REINFORCEMENT (WWR):

SMOOTH WIRE - ASTM A185

DEFORMED WIRE - ASTM A497

 USE FLAT MATS ONLY. NO ROLLED WWR IS PERMITTED. 2. MINIMUM REINFORCEMENT LAP = 40 BAR DIAMETERS

3. MINIMUM WWR LAP = GRID SPACING PLUS 2 INCHES

4. MINIMUM CONCRETE COVER OVER REINFORCEMENT:

a. CONCRETE CAST AGAINST EARTH = 3" b. CONCRETE EXPOSED TO EARTH OR WEATHER = 1 1/2"

c. CONCRETE NOT EXPOSED TO EARTH OR WEATHER = 3/4" 5. SLAB-ON-GRADE REINFORCEMENT SHALL BE PLACED AT THE MID-DEPTH OF THE SLAB.

F. COORDINATION: COORDINATE ALL UNDER-SLAB MATERIAL SUCH AS VAPOR BARRIER INSULATION, AND SUB-BASE WITH ARCHITECTURAL CONSTRUCTION

2. COORDINATE CONCRETE SURFACE FINISHING WITH ARCHITECTURAL FINISH MATERIALS.

3. REPAIR OR REPLACE DEFECTIVE CONCRETE AS DIRECTED BY THE ARCHITECT, ENGINEER, OR TESTING AGENCY.

4. COORDINATE ALL JOINT SPACING, LAYOUT, FILLER AND SEALANTS. 5. COORDINATE WITH ARCHITECTURAL ANY FINISH SURFACES THAT REQUIRE MOCK-UPS AND ACCEPTANCE PRIOR TO CONSTRUCTION.

6. COORDINATE WITH REQUIRED INSPECTORS, SPECIAL INSPECTORS, AND STRUCTURAL OBSERVERS FOR FIELD QUALITY CONTROL ITEMS AND SCHEDULE NOTIFICATIONS IN A TIMELY FASHION.

G. DEFINITIONS: 1. PERFORMANCE DESIGN - A SET OF INSTRUCTIONS THAT OUTLINES THE FUNCTIONAL REQUIREMENTS FOR HARDENED CONCRETE DEPENDING ON THE APPLICATION. PERFORMANCE DESIGN DOES NOT INCLUDE REQUIREMENTS FOR MEANS AND METHODS AND DOES NOT PROVIDE LIMITATIONS ON THE INGREDIENTS OR PROPORTIONS OF THE CONCRETE MIXTURE. SUBMITTALS FOR PERFORMANCE DESIGN WOULD NOT BE A DETAILS LIST OF MIXTURE INGREDIENTS BUT RATHER A CERTIFICATION THAT THE MIX WILL MEET THE SPECIFICATION REQUIREMENTS, INCLUDING PRE-QUALIFICATION TEST

RESULTS. 2. DURABILITY DESIGN - DURABILITY IS THE ABILITY OF CONCRETE TO RESIST WEATHERING ACTION, CHEMICAL ATTACK, AND ABRASION WHILE MAINTAINING

IT'S DESIRED ENGINEERING PROPERTIES. 3. STRENGTH DESIGN- BASED ON THE ULTIMATE COMPRESSIVE STRENGTH OF THE CONCRETE NEEDED TO RESIST THE CALCULATED DESIGN LOADS. ANY ADDITIONAL STRENGTH THAT MAY BE PRESENT DUE TO STEEL REINFORCING IS NOT PERMITTED TO BE INCLUDED IN THE CONCRETE STRENGTH DESIGN.

A. REFERENCE STANDARDS AND GOVERNING AGENCIES

NDS FOR WOOD CONSTRUCTION

APA PANEL DESIGN SPECIFICATION

AWPA U1 - USE CATEGORY SYSTEM: USER SPECIFICATION FOR TREATED WOOD . TPI 1 NATIONAL DESIGN STANDARD FOR METAL PLATE CONNECTED WOOD TRUSS

5. WWPA - WESTERN WOOD PRODUCTS ASSOCIATION

B. SUBMITTALS: ENGINEERED WOOD PRODUCTS:

a. ANY ALTERNATE PROPRIETARY FRAMING SYSTEM(S) SHALL BE OF THE SAME DEPTH AND LOAD CARRYING CAPACITY AS THE TRUS-JOIST SYSTEM(S) SHOWN ON THE DRAWINGS. ICC REPORTS FOR THE ALTERNATE PROPRIETARY FRAMING SYSTEM(S) SHALL BE SUBMITTED SHOWING TESTING APPROVAL AND MATERIAL STRENGTH EQUIVALENCY.

b. ALL SUBMITTED ENGINEERED WOOD PRODUCTS CALCULATIONS SHALL BE STAMPED AND SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF **IDAHO**.

2. FABRICATED WOOD TRUSSES: a. ALL ROOF TRUSSES SHALL BE DESIGNED, STAMPED, AND SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF **IDAHO**.

b. TRUSS MANUFACTURER SHALL PROVIDE PROOF OF APPROVED THIRD PARTY INSPECTION AS REQUIRED BY THE 2018 IBC, SECTION 1704.2.5. SUBMIT SHOP DRAWINGS OF PRE MANUFACTURED WOOD TRUSS LAYOUT FOR REVIEW BY THE ENGINEER PRIOR TO FABRICATION. TRUSS DESIGN DRAWINGS AND CALCULATIONS SHALL CONFORM TO THE REQUIREMENTS

C. CARPENTRY WOOD FRAMING MEMBERS SHALL HAVE THE FOLLOWING GRADES, OR BETTER, UNLESS NOTED OTHERWISE (U.N.O.):

a. BLOCKING: DOUGLAS FIR LARCH NO. 2, OR BETTER b. BRIDGING: DOUGLAS FIR LARCH NO. 2, OR BETTER

FROM SECTION 2303.4 OF THE IBC.

STUD FRAMING: DOUGLAS FIR LARCH NO. 2, OR BETTER BEAMS/HEADERS/JOISTS: DOUGLAS FIR LARCH NO. 2, OR BETTER e. BUILT-UP COLUMNS: DOUGLAS FIR LARCH NO. 2, OR BETTER

SOLID COLUMNS: DOUGLAS FIR LARCH NO. 1, OR BETTER

TOP AND BOTTOM PLATES: DOUGLAS FIR LARCH NO. 2, OR BETTER MAXIMUM MOISTURE CONTENT OF ALL LUMBER AT THE TIME OF CLOSURE SHALL

3. SPLICING OF WOOD MEMBERS, UNLESS SHOWN ON THE DRAWINGS, IS PROHIBITED WITHOUT WRITTEN APPROVAL OF THE PROJECT ENGINEER. 4. HOLES MAY BE DRILLED IN JOIST/BEAM IF SPECIFICALLY INDICATED ON THESE DRAWINGS. ANY OTHER HOLES OR NOTCHES ARE NOT ALLOWED.

5. ALL WOOD IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED OR REDWOOD.

D. ENGINEERED OR COMPOSITE WOOD PRODUCTS 1. ALL ENGINEERED WOOD PRODUCTS SHALL BE TRUS-JOIST PRODUCTS OR

2. ALL ENGINEERED WOOD PRODUCTS SHALL BE DESIGNED FOR THE LOADS

SPECIFIED AND SHALL CONFORM TO THE LATEST SPECIFICATIONS. 3. ALL ENGINEERED WOOD PRODUCTS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.

4. SPLICING OF ENGINEERED WOOD MEMBERS, UNLESS SHOWN ON THE DRAWINGS, IS PROHIBITED WITHOUT WRITTEN APPROVAL OF THE PROJECT ENGINEER. MANUFACTURED OR FABRICATED WOOD TRUSSES 1. ALL TRUSS LOADING SHALL SATISFY DEAD AND LIVE LOADS SHOW UNDER DESIGN

LOADS IN THE DESIGN CRITERIA, ABOVE. 2. MEMBER PROPERTIES: NO EXCEPTIONS OR SUBSTITUTIONS WITHOUT A WRITTEN REQUEST PRIOR TO FABRICATION.

F. PANEL SHEATHING:

a. CHORDS: DOUGLAS FIR LARCH NO. 2, OR BETTER . WEBS: DOUGLAS FIR LARCH NO. 2, OR BETTER, OR STUD GRADE . UTILITY, CONSTRUCTION, OR #3 GRADE WOOD IS NOT ACCEPTABLE FOR ANY

TRUSS MEMBER 3. EACH TRUSS SHALL BE MARKED WITH THE FOLLOWING INFORMATION: a. MANUFACTURER'S IDENTIFICATION DESIGN LOAD(S)

TRUSS SPACING AND CONFIGURATION. 4. ALL TRUSS BLOCKING PANELS SHALL BE DESIGNED AND PROVIDED BY THE TRUSS

MANUFACTURER AND CONSTRUCTED WITH APPROVED PLATES. . TRUSS PROFILES SHOWN ARE REPRESENTATIONS OF POSSIBLE CONFIGURATIONS OF WEB LOCATIONS, MEMBER SIZES, AND NUMBER OF PLAYS.

TRUSS MANUFACTURER SHALL VERIFY ALL TRUSS DIMENSIONS, ACCOUNTING FOR TOLERANCES, CONNECTIONS AND SPLICE REQUIREMENTS. 7. TRUSS ORIENTATION DIRECTLY IMPACTS THE STRUCTURAL INTEGRITY OF THE FOUNDATION, AND WALL SYSTEM DESIGNS. ANY MODIFICATIONS TO THE TRUSS ORIENTATION MUST BE MADE IN WRITING AND SUBMITTED TO THE CONTRACTOR,

AND ENGINEER PRIOR TO THE CONSTRUCTION OF THE ABOVE SYSTEMS. 8. THE TRUSS MANUFACTURER IS RESPONSIBLE FOR COORDINATION BETWEEN STRUCTURAL, ARCHITECTURAL, AND MECHANICAL LAYOUT REQUIREMENTS PRIOR

1. STRUCTURAL WOOD SHEATHING AS SPECIFIED ON THESE DRAWINGS AT ROOF/FLOOR DIAPHRAGMS, SHEAR WALLS, AND BUILT-UP BLOCKING LOCATIONS SHALL BE STAMPED WITH THE SPECIFIED APA RATING. 2. STRUCTURAL WOOD SHEATHING MAY BE EITHER PLYWOOD OR ORIENTED

STRAND BOARD (OSB) AS LONG AS THE PANEL MEETS OR EXCEEDS THE CRITERIA LISTED BELOW.

G. ACCESSORIES AND FASTENERS: 1. ALL WOOD CONNECTORS SHALL BE SIMPSON STRONG-TIE OR APPROVED EQUAL AND INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.

a. POST TO CONCRETE CONNECTIONS SHALL BE SIMPSON 'AB' POST BASES, b. POST TO BEAM CONNECTIONS SHALL BE SIMPSON 'LPCZ' POST CAPS, U.N.O.

a. HIGH HUMIDITY AND PRESERVATIVE TREATED WOOD LOCATIONS: HOT DIPPED

. SAWN LUMBER JOIST HANGERS SHALL BE SIMPSON 'LU' HANGERS, U.N.O. d. I-JOIST HANGERS SHALL BE SIMPSON 'ITS' HANGERS, U.N.O. 2. NAILING SHALL BE IN ACCORDANCE WITH THE 2018 IBC TABLE 2304.10.2, UNLESS

NOTED OTHERWISE 3. NAILS SHALL BE COMMON WIRE NAILS (EXCEPT 16d NAILS MAY BE BOX WIRE METAL FINISH MATERIAL:

GALVANIZED STEEL PER ASTM A 153. b. INTERIOR AND DRY LOCATIONS: STANDARD PAINTED OR ZINC GALVANIZED COATING. H. TRUSSES: 1. SUBMIT SHOP DRAWINGS SHOWING FULL DIMENSIONS FOR EACH MEMBER AND LAYOUTS OF THE ENTIRE HEAVY TIMBER TRUSSES. SHOW DETAILS OF TRUSS

CONNECTIONS, CONNECTORS AND OTHER ACCESSORIES. INDICATE SPECIES AND GRADE OF TIMBER. . FABRICATE CONNECTIONS CONSIDERING STRICT QUALITY STANDARDS ESTABLISHED BY THE TIMBER FRAME'S GUILD OF NORTH AMERICA, INCLUDING TFEC 1.7 UNLESS SPECIFICALLY DETAILED OTHERWISE. ALL CONNECTIONS SHALL BE DETAILED AND CONSTRCTUED ACCORDING TO THESE DRAWINGS UNLESS

SPECIIFCALLY APPROVED BY THE ENGINEER OF RECORD. CONNECTIONS SHALL BE DESIGNED TO MINIMIZE VISIBLE JOINT SEPARATION DUE TO SHRINKAGE. 3. THE GENERAL CONTRACTOR SHALL FULLY COORDINATE THE SITE CONDITIONS, WORK. SCHEDULE. ERECTION PLATFORM, AND ALL OTHER ITEMS PERTINENT TO

THE TIMBER FRAME ERECTION PROCESS. DEFINITIONS: APA RATED SHEATHING: A COMMON TRADE NAME THAT APPLIES TO A GRADE OR PANEL FOR USE AS SUBFLOORING, WALL SHEATHING, AND ROOF SHEATHING. PANELS ARE MADE WITH RESIN ADHESIVES THAT PROVIDE A MOISTURE RESISTANT BOND AND ARE DESIGNATED AS: EXPOSURE 1. PANELS CAN BE

MAXIMUM IMPORTANCE. PANELS ARE MADE WITH RESIN ADHESIVES THAT

PANELS CAN BE MANUFACTURED AS EITHER: PLYWOOD OR OSB.

APA STRUCTURAL 1 RATED SHEATHING: A SPECIAL SHEATHING GRADE DESIGNED

FOR USE WHERE SHEAR AND/OR CROSS PANEL STRENGTH PROPERTIES ARE OF

PROVIDE A MOISTURE RESISTANT BOND AND ARE DESIGNATED AS: EXPOSURE 1.

MANUFACTURED AS EITHER: PLYWOOD OR OSB.

STRUCTURAL OBSERVATIONS

THE CONTRACTOR, AND THE BUILDING OFFICIAL.

A. STRUCTURAL OBSERVATION IS THE VISUAL OBSERVATION OF THE STRUCTURAL SYSTEMS BY A REGISTERED DESIGN PROFESSIONAL FOR

GENERAL CONFORMANCE TO THE APPROVED CONSTRUCTION DOCUMENTS. B. THE STRUCTURAL OBSERVER SHALL BE EITHER THE ENGINEER OF RECORD

OR A REGISTERED DESIGN PROFESSIONAL APPROVED BY THE ENGINEER OF C. THE REGISTERED DESIGN PROFESSIONAL RESPONSIBLE FOR STRUCTURAL OBSERVATION, THE CONTRACTOR, AND APPROPRIATE SUBCONTRACTORS

SHALL HOLD A PRE-CONSTRUCTION MEETING TO REVIEW THE DETAILS OF THE STRUCTURAL SYSTEMS TO BE STRUCTURALLY OBSERVED D. THE REGISTERED DESIGN PROFESSIONAL RESPONSIBLE FOR STRUCTURAL OBSERVATION SHALL SUBMIT SEPARATE WRITTEN OBSERVATION REPORTS

FOR EACH REQUIRED SIGNIFICANT CONSTRUCTION STAGE TO BE OBSERVED.

THIS WRITTEN REPORT, INCLUDING ANY OBSERVED DEFICIENCIES, SHALL BE

SUBMITTED TO THE ENGINEER OF RECORD, THE OWNER'S REPRESENTATIVE,

SPECIAL INSPECTION

A. SPECIAL INSPECTION AS HEREIN REQUIRED OF THE FOLLOWING MATERIALS INSTALLATION, FABRICATION, ERECTION OR PLACEMENT OF COMPONENTS AND CONNECTIONS REQUIRING SPECIAL EXPERTISE TO ENSURE COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS

B. STRUCTURAL OBSERVATION OF THE STRUCTURAL SYSTEM BY THE ENGINEER OF RECORD DOES NOT INCLUDE OR WAIVE THE RESPONSIBILITY FOR THE SPECIAL INSPECTION REQUIRED BY SECTION 110, 1704, OR OTHER SECTIONS OF THE INTERNATIONAL BUILDING CODE

C. THE SPECIAL INSPECTION STATEMENT ON THIS SHEET LISTS THE ITEMS THAT REQUIRE SPECIAL INSPECTION AND VERIFICATION. THE CODE SECTION-REFERENCE FOR ADDITIONAL INFORMATION, AND THE REQUIRED FREQUENCY OF INSPECTION.

SPECIAL INSPECTION PROGRAM

A. THE OWNER SHALL EMPLOY AN APPROVED AGENCY FOR SPECIAL INSPECTION SERVICES TO PERFORM SPECIAL INSPECTIONS IN ACCORDANCE WITH CHAPTER 17 OF THE IBC.

B. AN APPROVED AGENCY SHALL BE AN ESTABLISHED AND RECOGNIZED AGENCY REGULARLY ENGAGED IN CONDUCTING TESTS OR FURNISHING

INSPECTION SERVICES. C. A SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL SHOW COMPETENCE TO THE SATISFACTION OF THE BUILDING OFFICIAL FOR THE INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION. A SPECIAL INSPECTOR SHALL ALSO DEMONSTRATE A THOROUGH WORKING KNOWLEDGE OF CHAPTER 17 OF THE IBC AS SUMMARIZED BELOW. IF THERE IS ANY OMISSION ON THE SUMMARIZED LIST BELOW, SUCH OMISSION SHALL NOT BE CONSTRUED TO MEAN THAT THE SPECIAL INSPECTOR IS NOT REQUIRED TO INSPECT EVERYTHING THAT IS NECESSARY TO MEET THE MINIMUM REQUIREMENTS OF

THE IBC. D. SPECIAL INSPECTORS SHALL KEEP RECORDS OF INSPECTIONS. THE SPECIAL INSPECTOR SHALL SUBMIT INSPECTION REPORTS TO THE BUILDING OFFICIAL AND THE ENGINEER FOR REVIEW IN A TIMELY FASHION

E. SPECIAL INSPECTION REPORTS SHALL INDICATE THAT WORK INSPECTED WAS DONE IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THE DISCREPANCIES ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE BUILDING OFFICIAL AND THE ENGINEER

ABBREVIATIONS

I.B. IDD'L ILT IPPROX IRCH IRCH'L	ANCHOR BOLT ADDITIONAL ALTERNATE APPROXIMATE ARCHITECT ARCHITECTURAL	MANUF MAX MB MECH MIN MISC	MANUFACTURER MAXIMUM MACHINE BOLT MECHANICAL MINIMUM MISCELLANEOUS
BOT BRG. BLDG.	BOTTOM BEARING BUILDING	NO N.T.S.	NUMBER NOT TO SCALE
SM SJ	BEAM CHANNEL CONTROL JOINT	O.C. O.H. OPNG OPP	ON CENTER OPPOSITE HAND OPENING OPPOSITE
CL CLG. CMU	CENTER LINE CEILING CONCRETE MASONRY UNIT	OSB OWSJ	ORIENTED STRAND BOARD OPEN WEB STEEL JOIST
COM CONC.	COMMON CONCRETE	PEMB BUILDING	PRE-ENGINEERED METAL
COND. CONN. COORD.	CONDITION CONNECTION COORDINATE	PERP PL PLY PSL	PERPENDICULAR PLATE PLYWOOD PARALLEL STRAND LUMBER
D) DET D.F-L	DEPTH DETIAL DOUGLAS FIR-LARCH	PSI P.T.	POUNDS PER SQUARE INCH PRESSURE TREATED
DIAG DIAM DIM DWG	DIAGONAL DAIMETER DIMENSION DRAWING	REF REINF REQ'D REV	REFERENCE REINFORCEMENT REQUIRED REVISION
E) :A.	EXISTING EACH	RTU SCHED	ROOF TOP UNIT SCHEDULE
.A. i.B. i.J. iLEV	EXPANSION BOLT/ANCHOR EXPANSION JOINT ELEVATION	SHTG SIM SK	SHEATHING SIMILAR SKETCH
i.n. :Q :Quip	EDGE NAIL EQUAL EQUIPMENT	SPECS SS STAG	SPECIFICATIONS STAINLESS STEEL STAGGERED
DN IN	FOUNDATION FINISH	STD STRUCT	STANDARD STRUCTURAL
TLR TRMG TTG F.V.)	FLOOR FRAMING FOOTING FIELD VERIFY	T.A.S. T&G T&B THRU	THREADED ANCHOR STUD TOUNGE AND GROOVE TOP AND BOTTOM THROUGH TRUSS JOIST T-JOIST
GA GALV GLB GYP	GAUGE GALVANIZE GLULAM BEAM GYPSUM WALL BOARD	TJI T.O. TRANSV TYP	TOP OF TRANSVERSE TYPICAL
I.A.S.	HEADER ANCHOR STUD	UNO	UNLESS NOTED OTHERWISE
I.D. IDR IORIZ	HOLD DOWN HEADER HORIZONTAL	V.I.F. VERT	VERIFY IN FIELD VERTICAL
N	INCHES	(W) WF WD	WIDTH WIDE FLANGE WOOD
L) B LH LV VL	LENGTH POUND LONG LEG HORIZONTAL LONG LEG VERTICAL LAMINATED VENEER LUMBER	W.P. WT WWF WWR	WORK POINT WEIGHT WELDED WIRE FABRIC WELDED WIRE REINFORCEMEN

SHEET INDEX REVISION SHEET NUMBER SHEET NAME NUMBER DESCRIPTION S1.00 STRUCTURAL NOTES FOUNDATION, SHEAR, AND ROOF PLAN S2.00 S3.00 TYP CONCRETE DETAILS S4.00 WOOD SHEAR WALL DETAILS S4.01 TYP WOOD FRAMING DETAILS S5.00 STRUCTURAL DETAILS

04/15/2024

SET **PROJECT** DATE

03/29/24

CHECKED

PERMIT

REVISED

1047.24

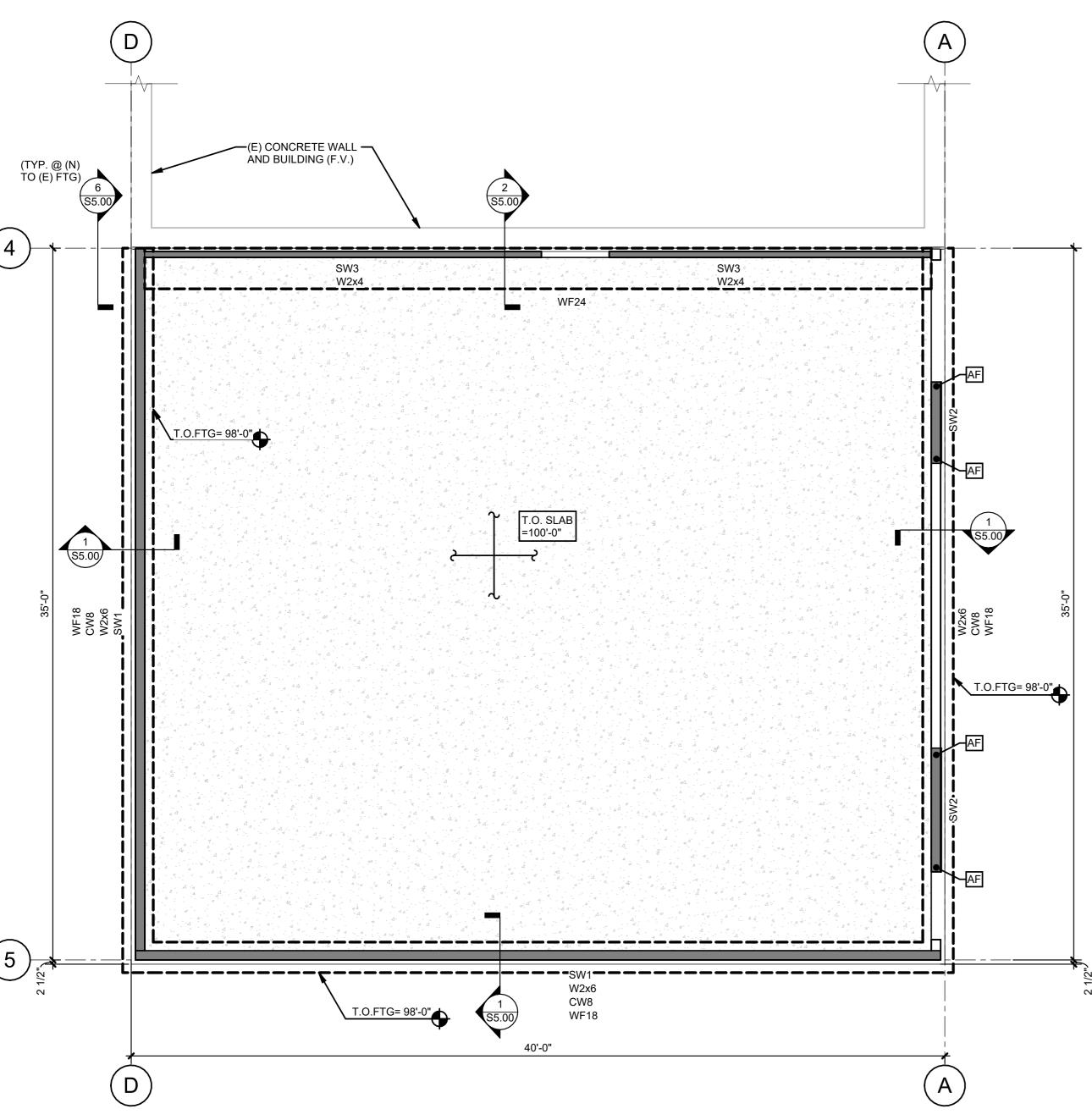
DRAWN

SHEET

SHEET TITLE STRUCTURAL **NOTES**

ORIGINAL SHEET SIZE

24" x 36"



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

FOUNDATION AND SHEAR WALL NOTES

- 1. FOR GENERAL NOTES, SEE SHEET S1.0
- 2. 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.
- 3. IF PROVIDED, SEE GEOTECHNICAL REPORTS FOR UNDERSLAB AND FOOTING REQUIREMENTS.
- 4. (E) = EXISTING STRUCTURAL MEMBER
- 5. (N) = NEW STRUCTURAL MEMBER
- 6. (F.V.) = FIELD VERIFY EXISTING CONDITION
- 7. T.O.SLAB = TOP OF CONCRETE SLAB ELEVATION
- 8. T.O.FTG = TOP OF FOOTING ELEVATION
- 9. FOR EXTERIOR WALLS NOT LABELED, USE SHEAR WALL TYPE 1 PER SHEAR WALL SCHEDULE.
- 10. TYPICAL DETAILING FOR CONCRETE STEM WALL AND FOUNDATION PER SHEET S3.00. SEE FOLLOWING REQUIREMENTS:
- A. RIENF. LAP LENGTH SCHEDULE PER DETAIL: 1/S3.00
- B. STANDARD REINF. DETAILING PER DETAIL: 2/S3.00
 C. STEM WALL CORNER REINF. PER DETAIL: 3/S3.00
 D. FOOTING CORNER REINF. PER DETAIL: 4/S3.00
- E. UTILITY PENETRATIONS AT FOUNDATION PER DETAIL: 5/S3.00
- 11. TYPICAL DETAILING FOR CONCRETE SLAB PER SHEET S3.00.SEE FOLLOWING REQUIREMENTS:A. SLAB CONTROL JOINTS PER DETAIL: 6/S3.00
 - B. PROVIDE ADDITIONAL REINF. AT ALL SLAB RE-ENTRANT
 - CORNERS PER DETAIL: 7/S3.00
 C. UTILITIES IN OR BELOW SLAB PER DETAIL: 8/S3.00
- D. OPENINGS IN SLAB PER DETAIL: 9/S3.00
- 12. TYPICAL DETAILING FOR SHEAR WALLS PER THE FOLLOWING REQUIRMENTS.
- A. SHEAR WALL DETAILING PER DETAIL: 1/S4.00
 B. FOUNDATION HOLDOWN PER DETAIL: 3/S4.00

 13. SEE DETAIL 6/S5.00 FOR NEW TO EXISTING FOUNDATION

CONNECTION.

FOUNDATION LEGEND

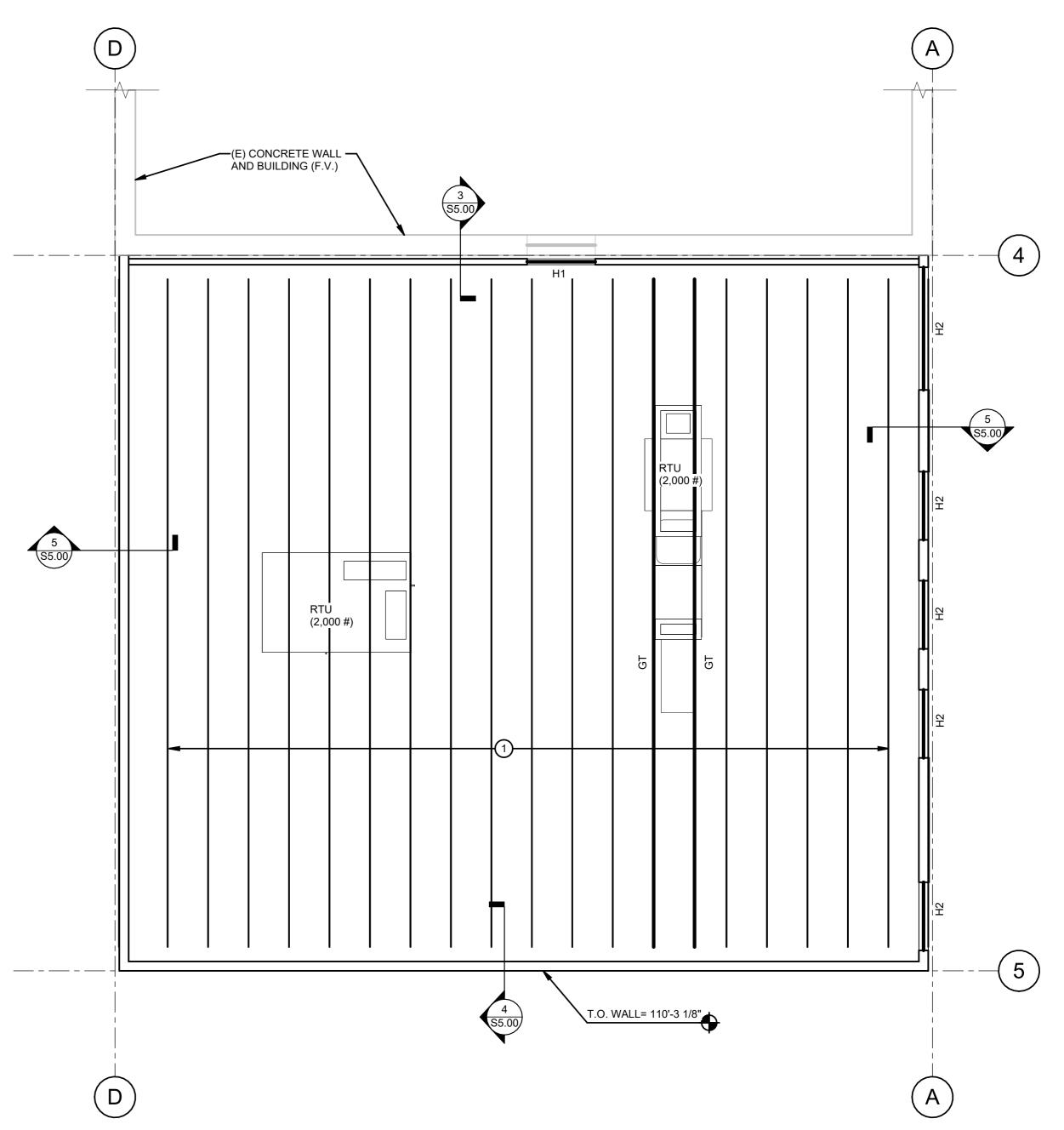
- WF# INDICATES CONCRETE CONTINUOUS WALL FOOTING,
- FOR SIZE AND REINF, SEE SCHEDULE BELOW.

 CW# INDICATES CONCRETE WALL, FOR SIZE AND REINF SEE DETAIL: 3/S3.00
- W# INDICATES WOOD WALL STUD FRAMING, SEE SCHEDULE AND DETAIL: 1/S4.01
- SW# INDICATES WOOD SHEAR WALL TYPE, SEE SCHEDULE AND DETAIL: 1/S4.00
- AF INDICATES FOUNDATION HOLDOWN, SEE SCHEDULE AND DETAIL: 3/S4.00
- INDICATES 4" CONCRETE SLAB W/ #3 REBAR AT 18" O.C. EA WAY (OR 4x4 2.9W x 2.9W WWR) OVER 10 MIL VAPOR BARRIER OVER 4" COMPACTED 3/4" MINUS GRAVEL.
- INDICATES CONCRETE SLAB CONTROL JOINT. LOCATIONS
 TO BE COORDINATED BY CONTRACTOR PER DETAIL: 6/S3.00

	CONTINUOUS FOOTING SCHEDULE					
MADK	SI	ZE	RE	INFORCING		
MARK	WIDTH	DEPTH	TOP	воттом		
WF18	18"	8"	NA	(2) #4 (L)		
WF24	24"	8"	NA	(2) #4 (L) & #3 'U' BARS @ 18" O.C. (T)		

CONCRETE WALL SCHEDULE MARK WIDTH REINFORCING VERTICAL HORIZONTAL CW8 8" #4 @ 18" O.C. (CENTERED) #4 @ 12" O.C. (CENTERED)

WOOD STUD WALL SCHEDULE				
MARK	TYPE	SPACING		
W2x4	(1) 2x4 DF-L #2	16" O.C.		
W2x6	(1) 2x6 DF-L #2	16" O.C.		



ROOF FRAMING PLAN

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

FRAMING PLAN NOTES

- 1. FOR GENERAL NOTES, SEE SHEET S1.0
- 2. 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.
- 3. ATTACH NON-BEARING INTERIOR WALLS PER DETAIL: 4/S4.01
- 4. T.O.WALL = TOP OF WALL ELEVATION.
- 5. (E) = EXISTING STRUCTURAL MEMBER
- 6. (N) = NEW STRUCTURAL MEMBER
- 7. (F.V.) = FIELD VERIFY EXISTING CONDITION
- 8. ROOF SHEATHING: 7/16" APA-RATED SHEATHING WITH 10d NAILS AT 6" O.C. EDGE NAILING AND 12" O.C. FIELD NAILING. STAGGER PANEL JOINTS PER DETAIL: 7/S4.01
- 9. TYPICAL DETAILING FOR WOOD FRAMING PER SHEET S4.0. SEE FOLLOWING REQUIREMENTS:
- A. TYPICAL SHEAR WALL DETAILING PER DETAIL: 1/S4.00
 B. TYPICAL WALL FRAMING PER DETAIL: 1/S4.01
 C. WALL TOP PLATE SPLICE PER DETAIL: 2/S4.01
- 10. RTU = MECHANICAL ROOF TOP UNIT WITH WEIGHT LISTED ON PLAN. CONFIRM UNIT WEIGHT AND LOCATION W/ MECHANICAL

FRAMING LEGEND

- INDICATES WOOD HEADER, SEE SCHEDULE BELOW AND
- DETAIL: 1/S4.01
 INDICATES FRAMING MEMBER, SEE SCHEDULE BELOW.
- INDICATES PRE-MANUFACTURED GIRDER TRUSS. SUPPORT GIRDER TRUSS ENDS WITH (3) 2x WALL STUDS,

SUPPORT GIRDER TRUSS ENDS WITH (3) 2x WALL STUDS, MATCH WALL STUD DEPTH TO WALL, CONNECT EACH PLY W/ 16d @ 12" O.C. (STAGGERED)

MARK	TYPE	TRIM STUD(S)	KING STUD
H1	(2) 2x6 DF-L #2	(1) 2x	(1) 2x
H2	(3) 2x6 DF-L #2	(1) 2x	(2) 2x

FRAMING SCHEDULE				
MARK	ТҮРЕ			
1	PRE-MANUFACTURED WOOD ROOF TRUSSES @ 24" O.C. WHERE PARAPET OCCURS, MANUF. TO DESIGN PARAPET INTEGRAL WITH TRUSS. DESIGN PARAPET FOR WIND PRESSURE = 75 PSF (ULT)			



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

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OAD STREET IN B3702 OR NOT. THESE DRAWINGS A INSTRUMENTS OF SE INSTRUMENTS OF THE WRITTEN OF THE WRITTEN CONSTRUMENTS OF SE INSTRUMENTS OF

200 BROAD ST BOISE, ID (208) 343-4635 • FAX (208) 343

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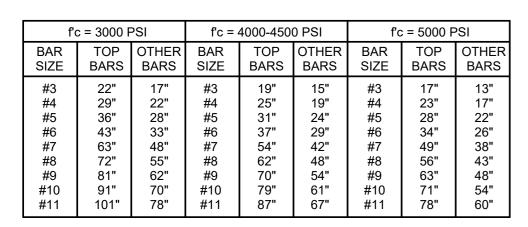
PROJECT DATE
1047.24 03/29/24

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REVISED

FOUNDATION, SHEAR, AND ROOF PLAN

S2.00



FOR GRADE 60, UNCOATED BARS, NORMAL WEIGHT CONCRETE MINIMUM STRAIGHT DEVELOPMENT LENGTH FOR BARS IN TENSION (L_d)

f'o	c = 3000 F	PSI	f'c = 4	4000-450	0 PSI	f'c	= 5000 F	PSI
BAR SIZE	TOP BARS	OTHER BARS	BAR SIZE	TOP BARS	OTHER BARS	BAR SIZE	TOP BARS	OTHER BARS
#3 #4 #5 #7 #10 #11	28" 38" 47" 56" 81" 93" 105" 118" 131"	22" 29" 36" 43" 63" 72" 81" 91"	#3 #4 #5 #6 #7 #8 #10 #11	25" 33" 41" 49" 71" 81" 91" 102" 114"	19" 25" 31" 37" 54" 62" 70" 79"	#3 #4 #5 #7 #8 #10 #11	22" 29" 36" 44" 63" 72" 81" 92" 102"	17" 23" 28" 34" 49" 56" 63" 71" 78"

MINIMUM CLASS "B" LAP SPLICE LENGTHS FOR BARS IN TENSION (L_b)

f'c = 30	00 PSI	fc = 4000-5000 PSI		
BAR	ALL	BAR	ALL	
SIZE	BARS	SIZE	BARS	
#3	6"	#3	6"	
#4	8"	#4	7"	
#5	10"	#5	9"	
#6	12"	#6	10"	
#7	14"	#7	12"	
#8	16"	#8	14"	
#9	18"	#9	15"	
#10	20"	#10	17"	

MINIMUM EMBEDMENT LENGTHS FOR STANDARD HOOKS (Ldh)

f'c = 30	00 PSI	f'c = 4000	-5000 PSI
BAR SIZE	ALL BARS	BAR SIZE	ALL BARS
#4 #5 #6 #7 #9 0	9" 11" 14" 17" 20" 22" 25" 28"	#3 #4 #5 #6 #7 #8 #10	8" 10" 12" 15" 17" 19" 22"
#11	31"	#11	27"

MINIMUM STRAIGHT DEVELOPMENT LENGTH FOR BARS IN COMPRESSION (Ldc)

fc = 3000-5000 PSI		
BAR SIZE	ALL BARS	
#3 #4 #5 #6 #7 #8 #10 #11	12" 15" 19" 23" 27" 30" 34" 39" 43"	

MINIMUM LAP SPLICE LENGTHS FOR BARS IN COMPRESSION (Lbc)

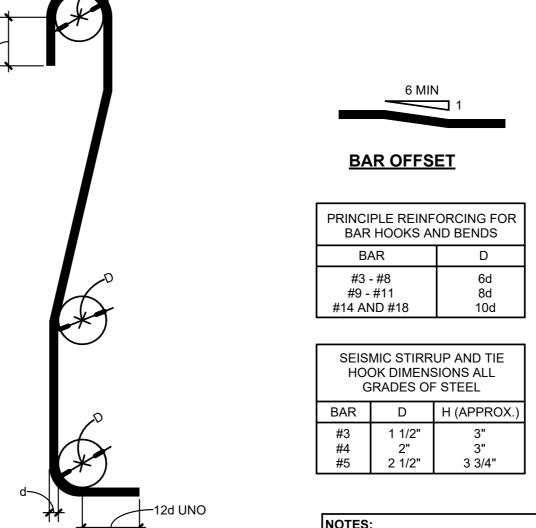
"TOP BARS" ARE HORIZ BARS WITH MORE THAN 12" DEPTH OF CONCRETE CAST BELOW

IF CLEAR CONCRETE COVER IS NOT GREATER THAN THE DIAMETER OF THE BAR OR THE CENTER TO CENTER SPACING IS NOT GREATER THAN 2 BAR DIAMETERS, THEN

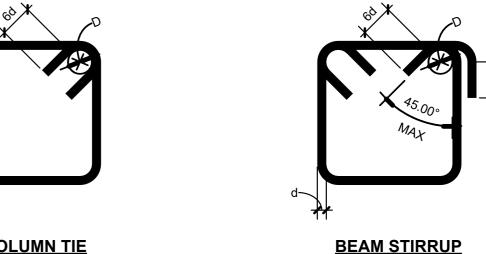
- VALUES SHALL BE INCREASED BY A FACTOR OF 1.5. END COVER FOR HOOKS MUST BE EQUAL TO OR GREATER THAN 2". SIDE COVER MUST
- BE EQUAL TO OR GREATER THAN 2 1/2". CLASS B - MORE THAN HALF OF THE BARS ARE SPLICED WITHIN A REQUIRED LAP
- CLASS A LAP SPLICES MAY BE USED WHERE LESS THAN HALF OF THE BARS ARE SPLICED WITHIN A REQUIRED LAP LENGTH BY DIVIDING THE CLASS B LENGTH BY A FACTOR OF 1.3.

POURING FTG.

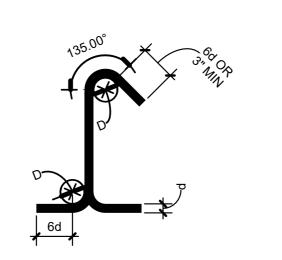
BAR HOOKS & BENDS



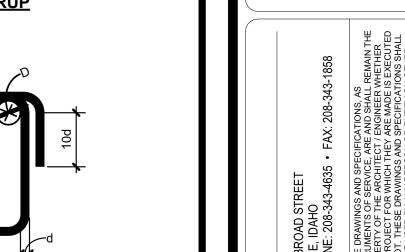
I. D = FINISHED BEND DIAMETER. . d - BAR DIAMETER.



COLUMN TIE

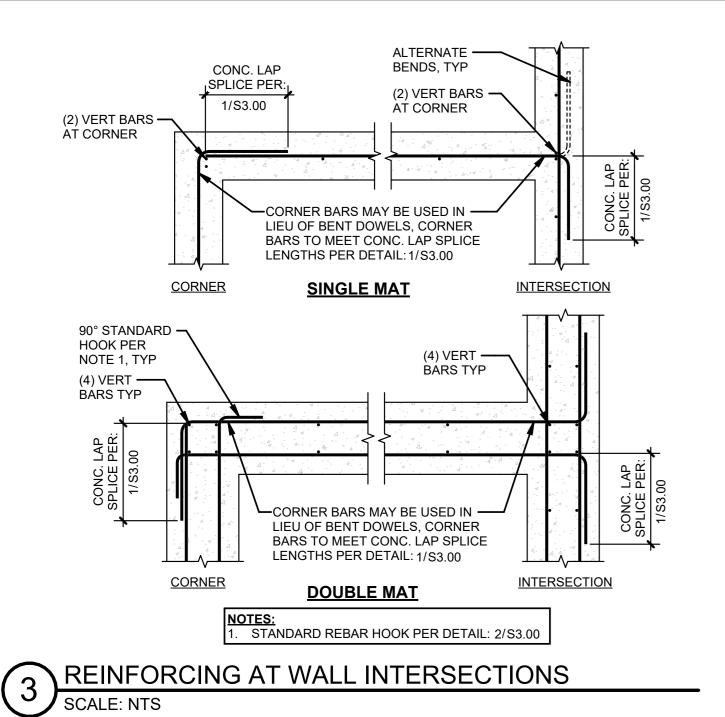


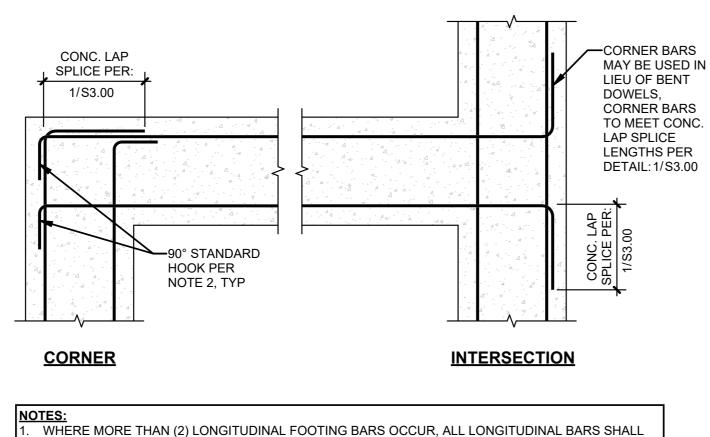
STIRRUPS & TIES



SPANDREL STIRRUP

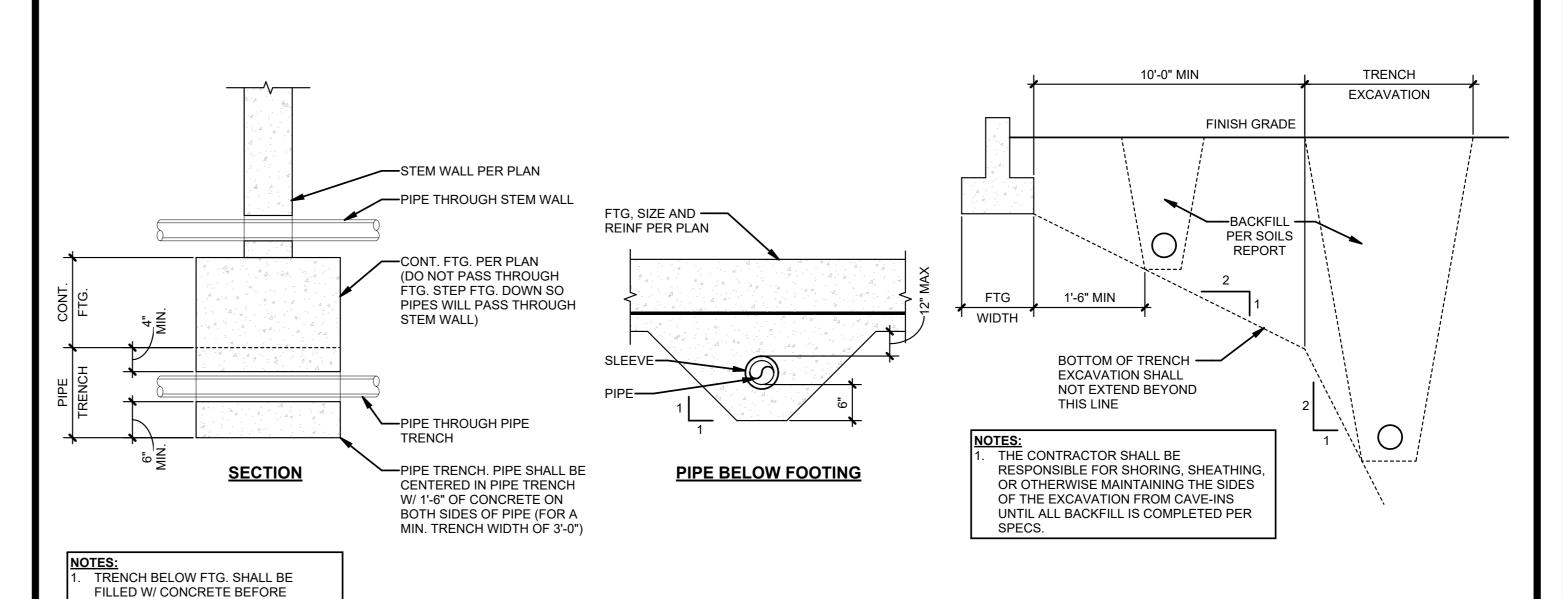
REINFORCEMENT SPLICE AND DEVELOPMENT LENGTH SCHEDULE





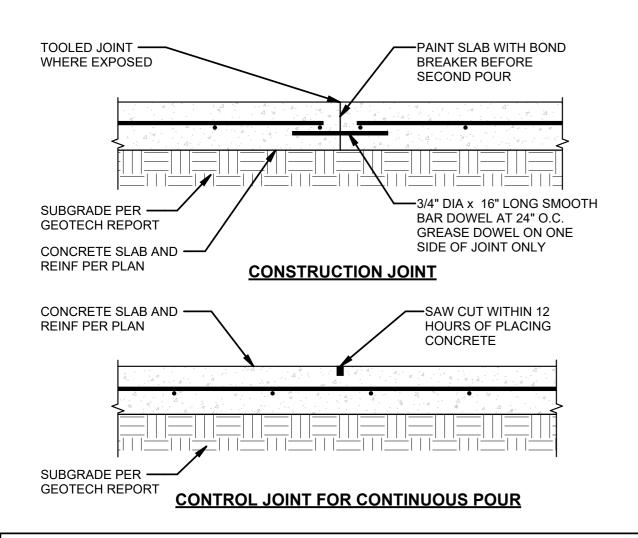
WHERE MORE THAN (2) LONGITUDINAL FOOTING BARS OCCUR, ALL LONGITUDINAL BARS SHALL DOWEL AS SHOWN. STANDARD REBAR HOOK PER DETAIL: 2/S3.00

REINFORCING AT FOOTING INTERSECTIONS



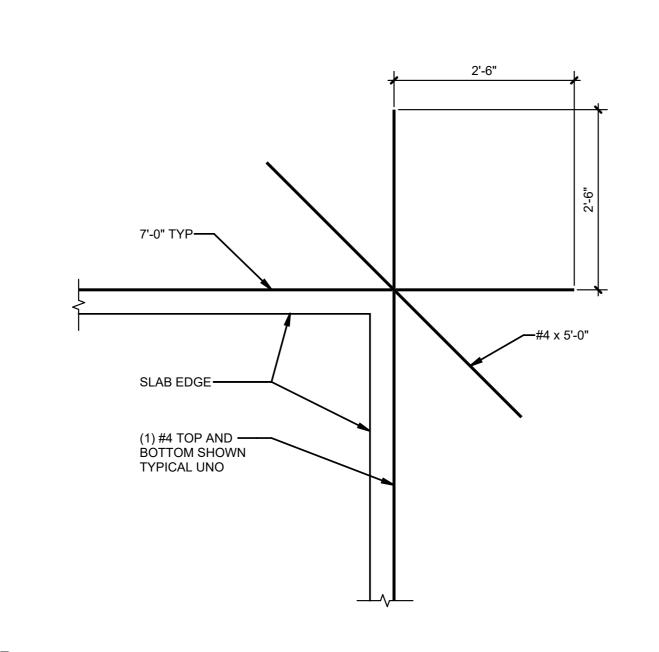
PIPE AND TRENCH LOCATIONS FOR FOUNDATIONS

SCALE: NTS

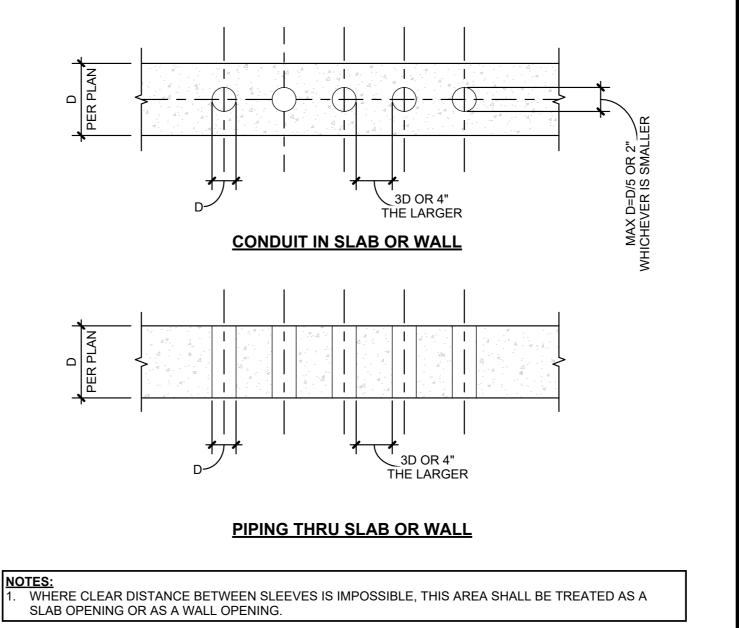


CONSTRUCTION JOINTS & CONTROL JOINTS MAY BE LOCATED INTERCHANGEABLY TO ALLOW WORKABLE SIZED CONCRETE PLACEMENTS. COORDINATE LOCATIONS WITH ARCH. PLANS MAX SPACING IN EITHER DIRECTION FOR REINFORCED SLAB SHALL BE, UNO. a. 4" THICK SLAB = 12'-0" O.C. b. 6" THICK SLAB = 18'-0" O.C.

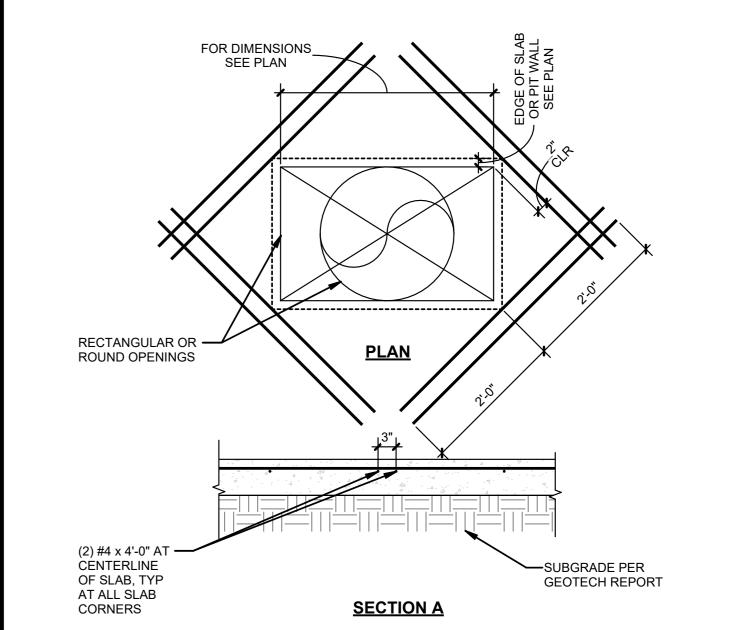
CONTROL AND CONSTRUCTION JOINT SCALE: NTS



TRIM BARS AT RE-ENTRANT CORNERS



PIPING CONDUIT IN OR THROUGH WALL OR SLAB
SCALE: NTS



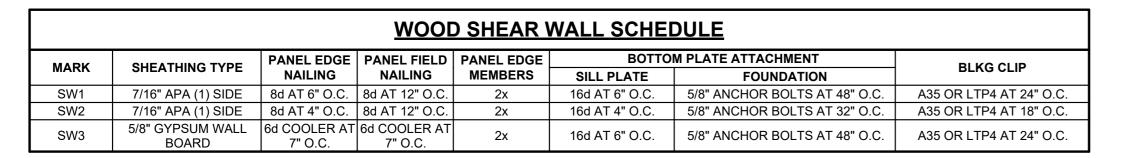
OPENINGS IN SLAB ON GRADE
SCALE: NTS ORIGINAL SHEET SIZE 24" x 36"

PERMIT SET

PROJECT DATE 1047.24 03/29/24 CHECKED DRAWN Checker REVISED

SHEET TITLE TYP CONCRETE **DETAILS**

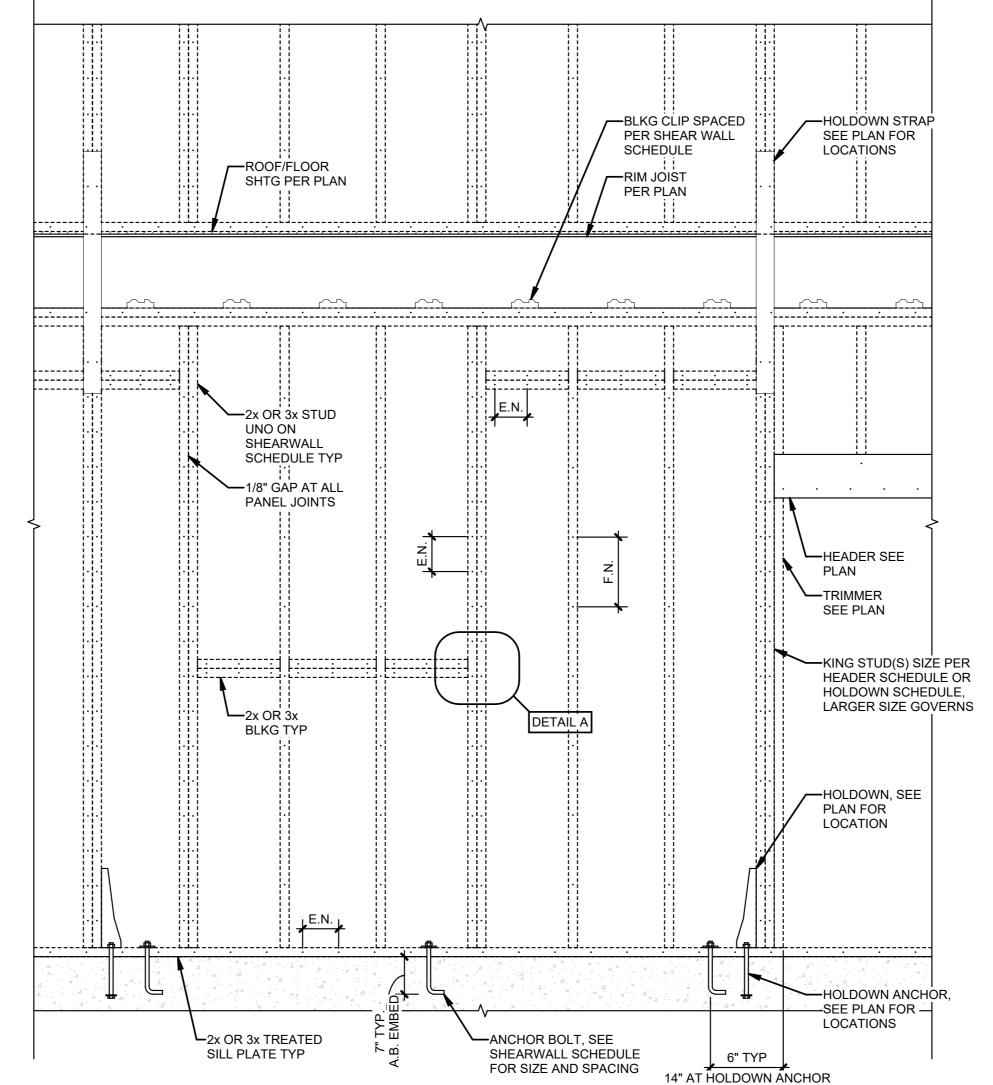
S3.00

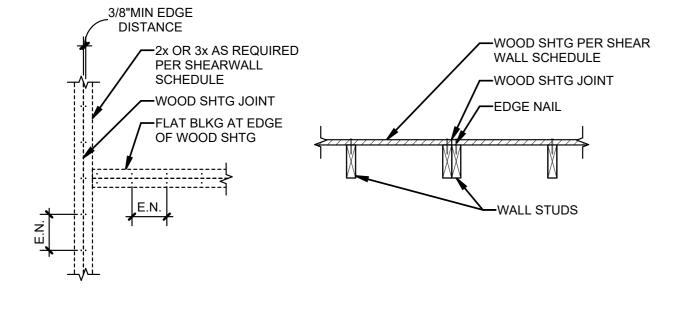


INDIVIDUAL PIECES OF WOOD STRUCTURAL PANEL SHALL NOT BE LESS THAN 2'-0" IN LEAST DIMENSION OR 8 SQ FT IN AREA.

RE-TIGHTEN HOLDOWN BOLTS BEFORE CLOSING IN WALL FRAMING.

- FOR ADDITIONAL INFORMATION SEE 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" MINIMUM. 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.
- UNO ON SHEARWALL SCHEDULE, PROVIDE THE MINIMUM NAIL SIZE AND SPACING OF 8d NAILS AT 6" O.C. AT PANEL EDGES, AT SILL AND SOLE PLATES, AND 12" O.C. AT INTERMEDIATE SUPPORTS.
- PROVIDE 1/4"x3"x3" PLATE WASHERS AT ALL SILL PLATE ANCHOR BOLTS. EACH SHEARWALL LENGTH SHALL HAVE A MINIMUM OF (2) BOLTS. PROVIDE A 1/8" GAP BETWEEN PANELS AT ALL PANEL EDGE JOINTS.
- INSTALL SHEATHING EITHER HORIZONTALLY OR VERTICALLY FOR THE ENTIRE LENGTH OF THE SHEAR WALL PER PLAN. WHERE STUDS ARE SPACED AT 24" O.C. SHEATHING MUST BE INSTALLED PERPENDICULAR TO THE WALL STUDS.
- 8d NAILS SHALL BE 0.131" DIA x 2-1/2" COMMON OR 0.113" DIA x 2-1/2" GALVANIZED BOX. GALVANIZED NAILS SHALL BE HOT DIPPED OR TUMBLED.
- 0. "E.N." INDICATES EDGE NAILING AT SHEAR WALLS
- 1. "F.N." INDICATES FIELD NAILING AT SHEAR WALLS.

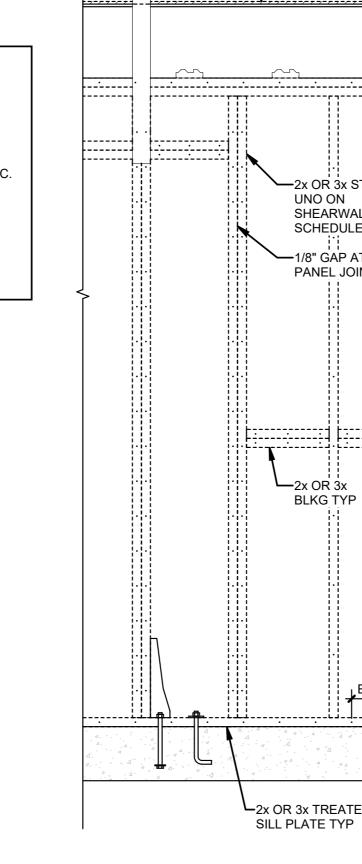


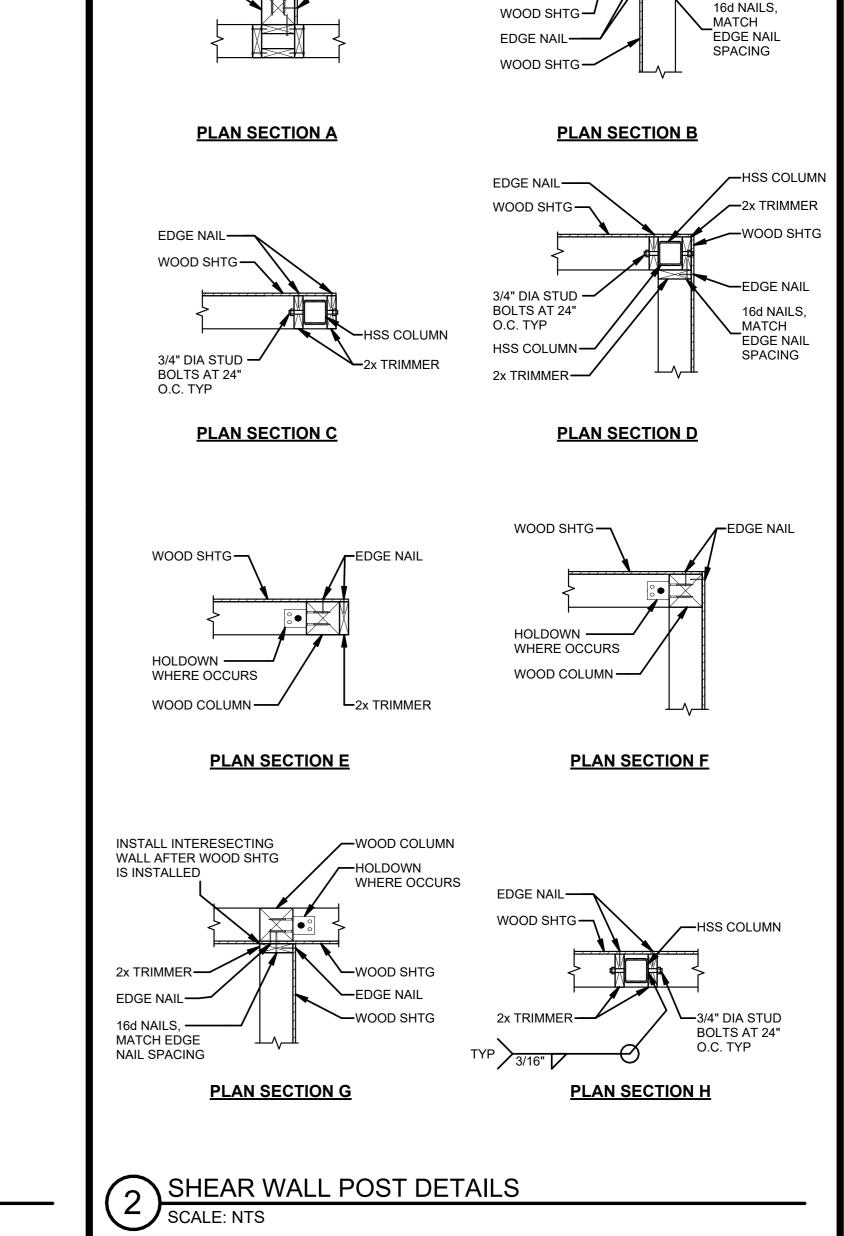


WOOD SHTG NAILING AT JOINT

PLAN VIEW WOOD SHTG ON ONE SIDE

DETAIL A





─WOOD SHTG

HOLDOWN — WHERE OCCURS

WOOD COLUMN -

2x TRIMMER—— HOLDOWN —

WHERE OCCURS

COLUMN

-2x TRIMMER

04/15/2024



FOUNDATION HOLDOWN SCHEDULE							
MARK	TYPE	STUD NAILS/SCREWS	STUD/POST	ANCHOR BOLT			
AF	STHD14	(30) 10d	(2) 2x	NA			
AF (ALT)	HDU4-SDS2.5	(10) 1/4 x 2 1/2 SDS	(2) 2x	SB5/8X24 w/ 18" CONC. EMBED			

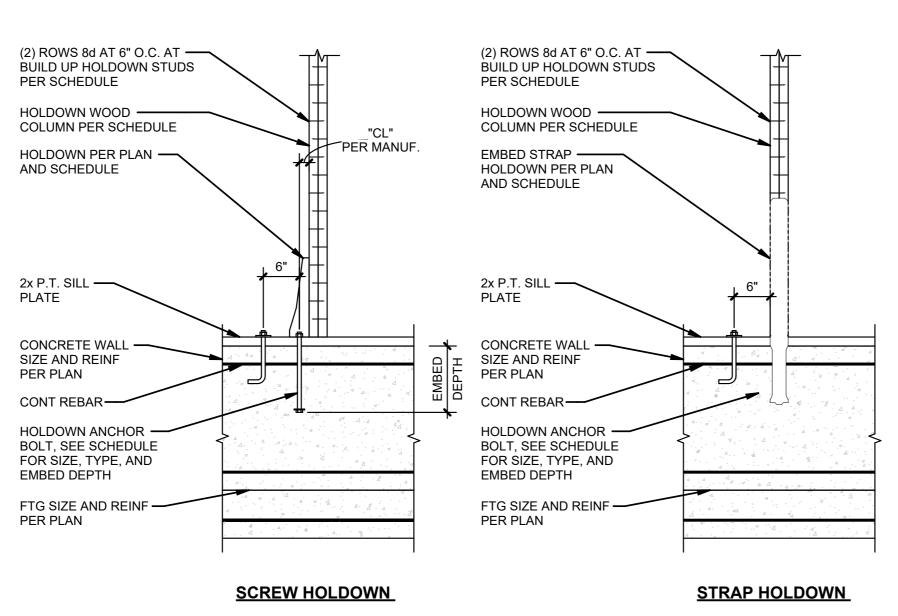
HOLDOWNS SHALL BE SIMPSON OR EQUAL WITH ICC APPROVAL. ALL SUBSTITUTES SHALL BE REVIEWED BY THE ENGINEER OF RECORD BEFORE INSTALLATION. COMPARE HOLDOWN STUD/POST (PER HOLDOWN SCHEDULE) TO KING STUD(S) (PER HEADER SCHEDULE). LARGER SIZE GOVERNS. CONTRACTOR TO COORDINATE

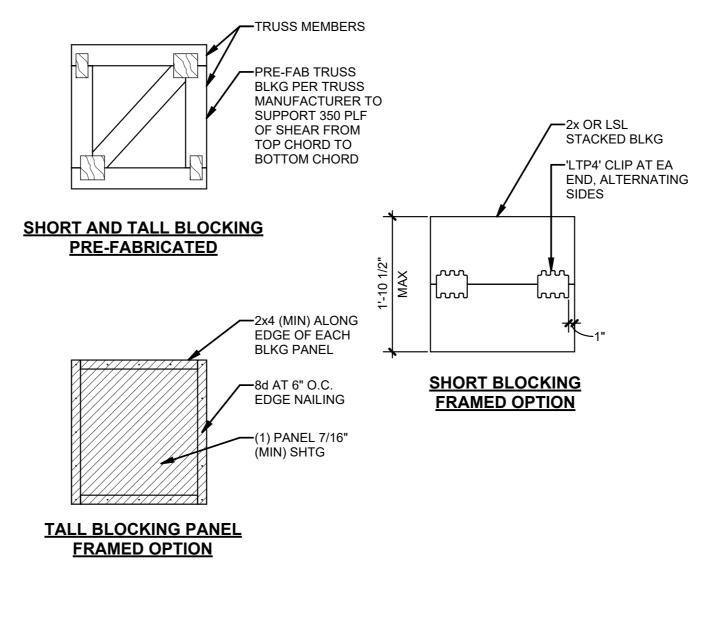
ANCHOR BOLT PLACEMENT. DEEPEN FOUNDATION AND STEM WALL AT FOOTING WHERE REQUIRED. CONTRACTOR'S OPTION TO USE STRAP HOLDOWN OR SCREW HOLDOWN PER SCHEDULE.

STRAP HOLDOWN MUST BE INSTALLED WITH SIMPSON 'SM1' BRACKETS, TYP. STRAP HOLDOWN MAY BE BENT HORIZONTAL THEN VERTICAL, ONE TIME ONLY. ANCHOR BOLT EMBED IS MINIMUM CONCRETE STEM WALL EMBED U.N.O.

\ HOLDOWN AT FOUNDATION

SCALE: NTS





TRUSS BLOCKING OPTIONS

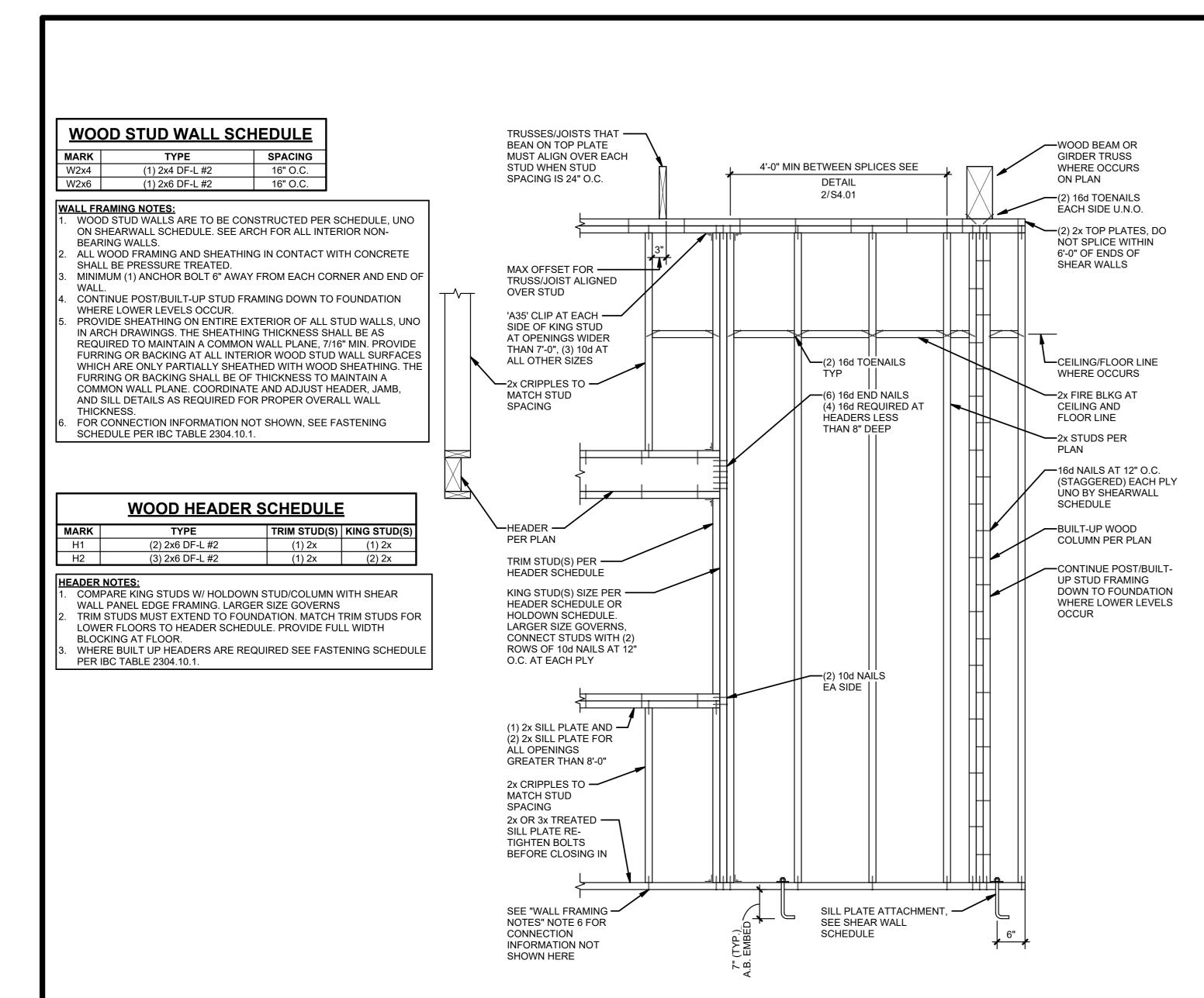
SCALE: NTS

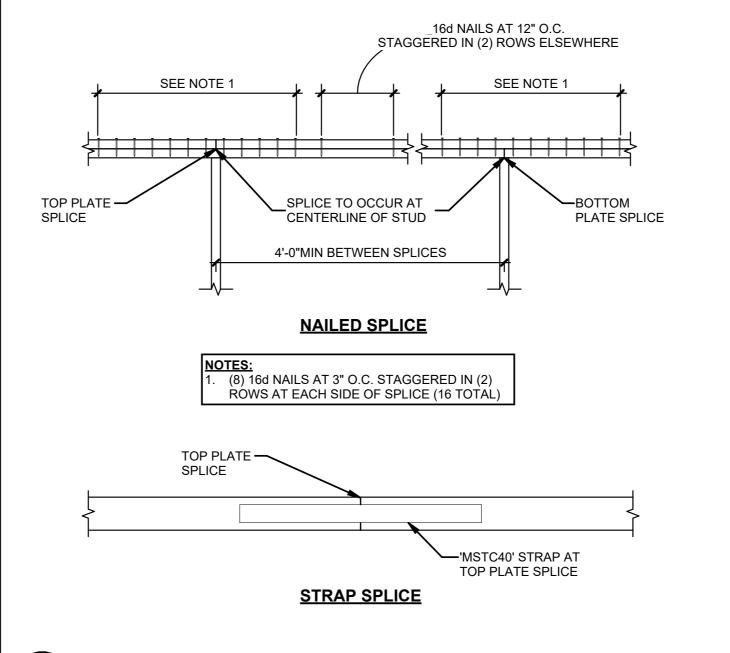
PERMIT SET

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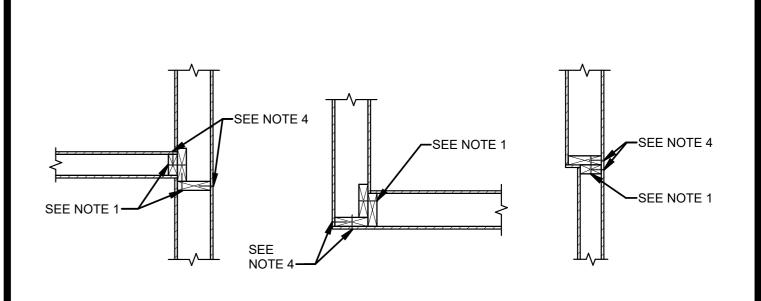
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SHEET WOOD SHEAR WALL **DETAILS**





2 TOP PLATE SPLICE SCALE: NTS



WALL CORNER WALL INTERSECTION

VARYING WALL SIZE

10d FACE NAILS WITH THE SAME SPACING AS THE PANEL EDGE NAILING PER THE SHEAR WALL SCHEDULE (SEE NOTE 2 FOR NON-SHEAR WALLS).

AT NON-SHEAR WALLS, NAIL STUDS TOGETHER WITH 10d NAILS AT 8" O.C.

ADDITIONAL STUDS REQUIRED AS NAILERS, ETC ARE NOT SHOWN. SHEATHING AND SHEAR WALL EDGE NAILING PER SHEAR WALL SCHEDULE (WHERE OCCURS).

**** WOOD WALL INTERSECTIONS

PER PLAN ROOF SHTG -PER PLAN T.O.WALL / PER PLAN T.O.WALL WOOD ROOF -----2x BLKG AT 6'-0" O.C. TRUSS PER PLAN AS REQUIRED PER PLAN -'STC' CLIP AT (2) 2x FLAT HEADER -EA BLKG (MAX SPAN = 8'-0" WHERE OCCURS) -WALL SHTG 'STC' CLIP AT 6'-0" O.C. PER ARCH -WOOD ROOF WOOD STUD -FOR NON-BEARING TRUSS PER PLAN WALL PER PLAN TRUSS TO WALL -2x P.T. SILL PLATE W/ -2x AT 16" O.C. NON-SIMPSON PDPA-287 ATTACHMENT BEARING STUD WALL CONCRETE SLAB -AT 12" O.C. SIZE AND REINF -WALL SHTG PER PLAN PER ARCH T.O.SLAB PER PLAN

WALL FRAMING "D" MAX | MAX BORE 2x4 BEARING/SHEAR 1-1/2" DIA 2x4 NON-BEARING 2-1/2" DIA 2-1/2" 3-1/2" DIA 2x6 BEARING/SHEAR 3-1/2" 2x6 NON-BEARING 4" DIA

IF PIPES ARE LARGER THAN ALLOWABLE NOTCHES/BORES PER TABLE ABOVE, CONTACT ENGINEER OF RECORD PRIOR TO MAKING NOTCHES/BORES.

6 BROKEN TOP PLATE
SCALE: NTS

ALLOWABLE NOTCH -

ALLOWABLE BORE HOLE -

PER TABLE BELOW

PER TABLE BELOW

STRAP PER -

DETAIL5/S4.01

FIELD NAILING AT -INTERMEDIATE FRAMING MEMBERS PANEL EDGE NAILING -PER PLAN SHEATHING PER PLAN-PANEL EDGE NAILING AT -2x4 FLAT BLOCKING WHERE FULLY BLOCKED DIAPHRAGMS ARE SPECIFIED. —PROVIDE 1/8" G/ AT PANEL JOINTS SHEATHING JOINT, — PANDEL EDGE NAILING PER PLAN, TYP WHERE FULLY BLOCKED — DIAPHRAGMS ARE SPECIFIED, PROVIDE 2x4 BLKG FLAT BLOCKING AT SHEATHING JOINTS.

ROOF AND FLOOR DIAPHRAGM SHEATHING SCALE: NTS

WOOD TRUSS AT NON-BEARING WALLS
SCALE: NTS

ROOF FRAMING PARALLEL TO WALL

-PIPE WHERE OCCURS

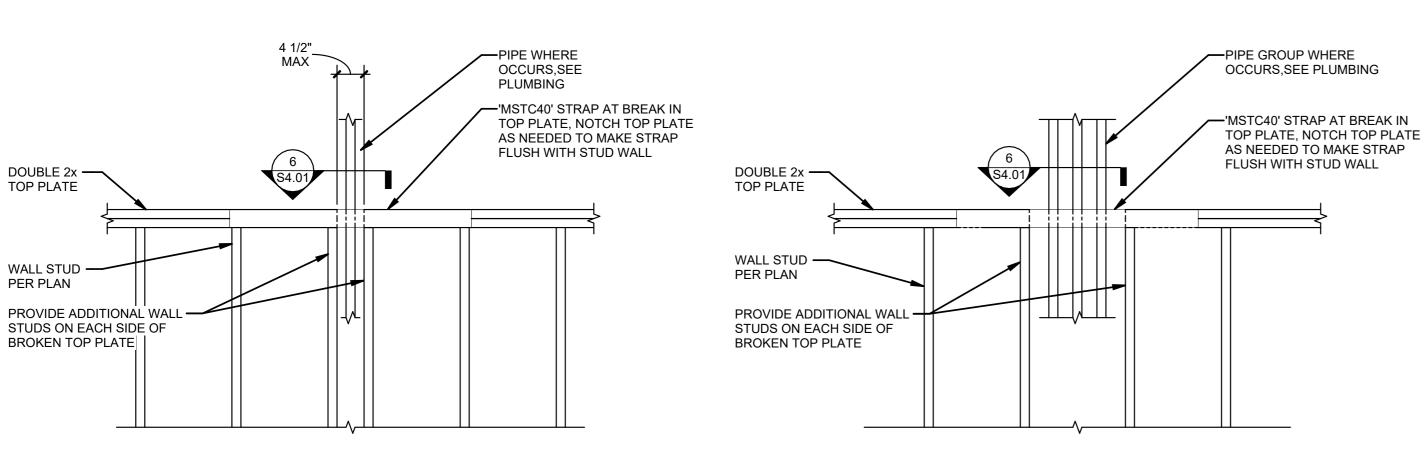
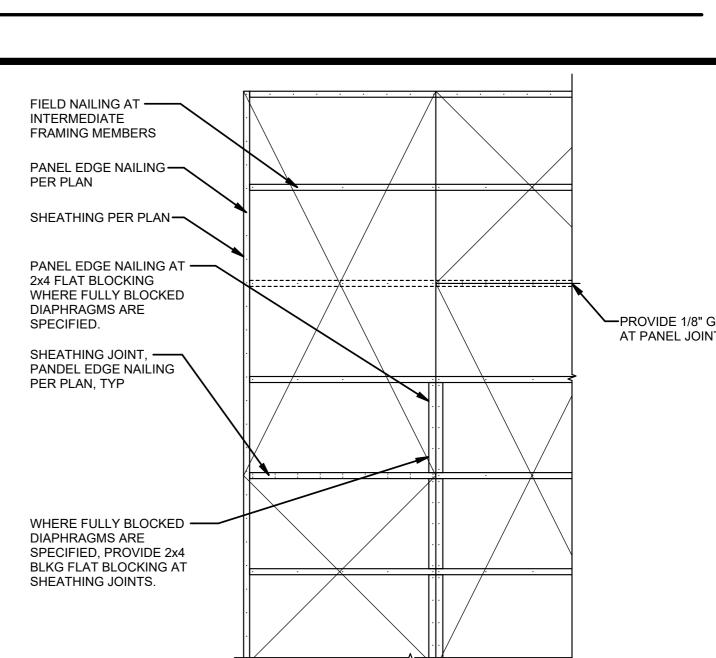


PLATE BREAK AT SINGLE PIPE PLATE BREAK AT MULTIPLE PIPES I. STRAPPING NOT REQUIRED AT INTERIOR NON BEARING WALLS



ROOF FRAMING PERPENDICULAR TO WALL

04/15/2024

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DATE PROJECT 03/29/24 CHECKED Checker

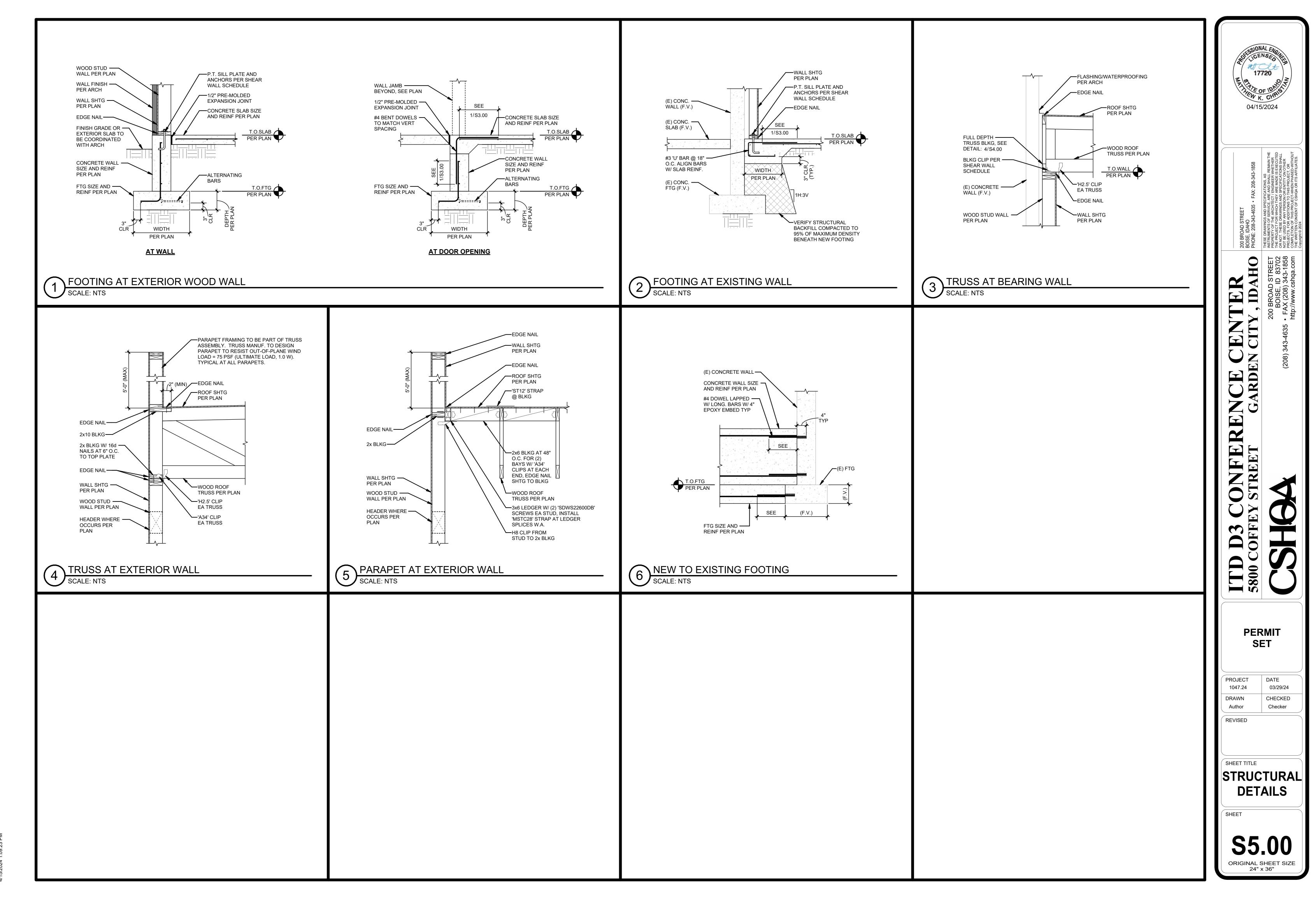
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TYPWOOD **FRAMING DETAILS**

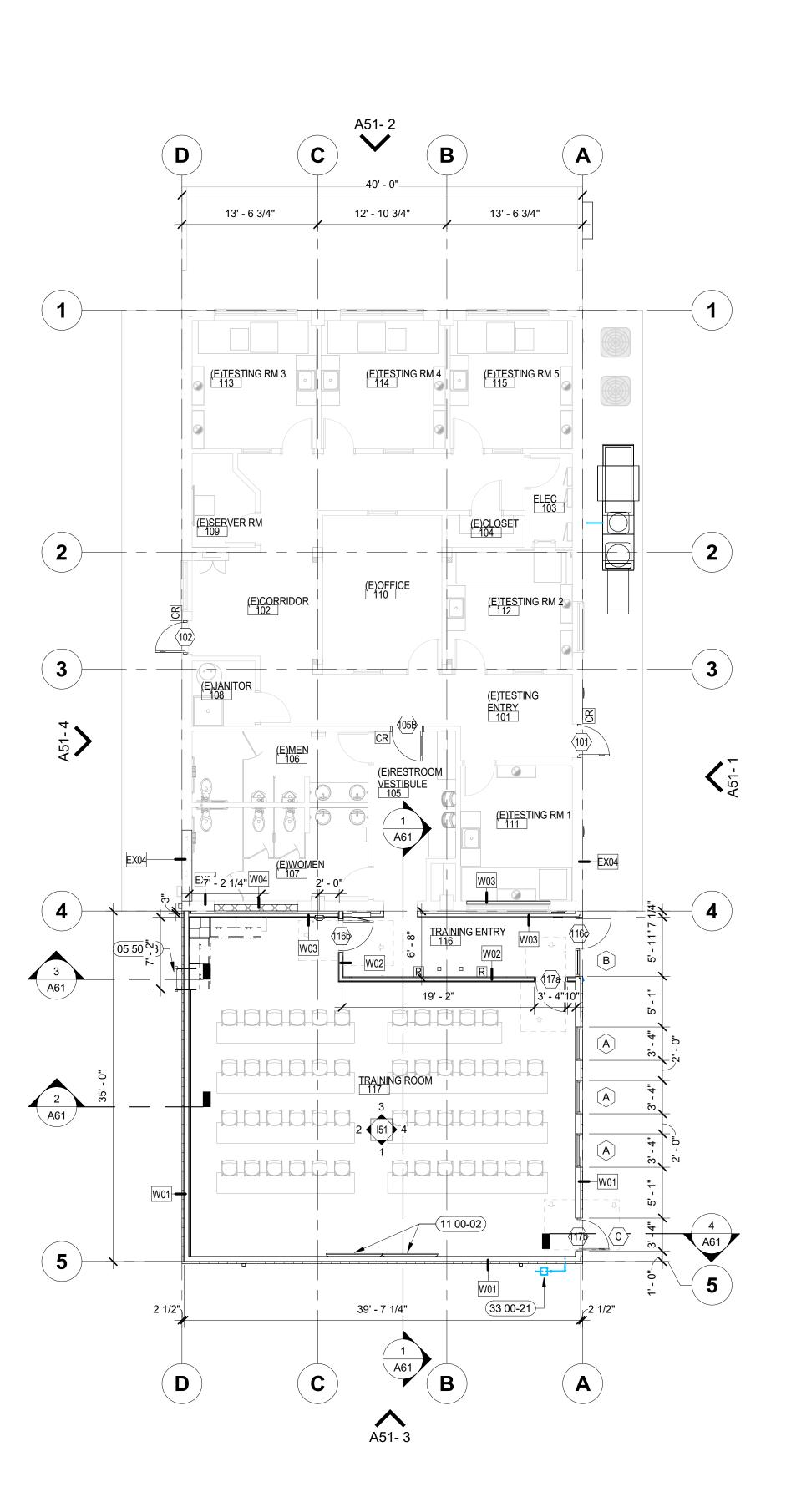
ORIGINAL SHEET SIZE 24" x 36"

WOOD STUD WALL ELEVATION

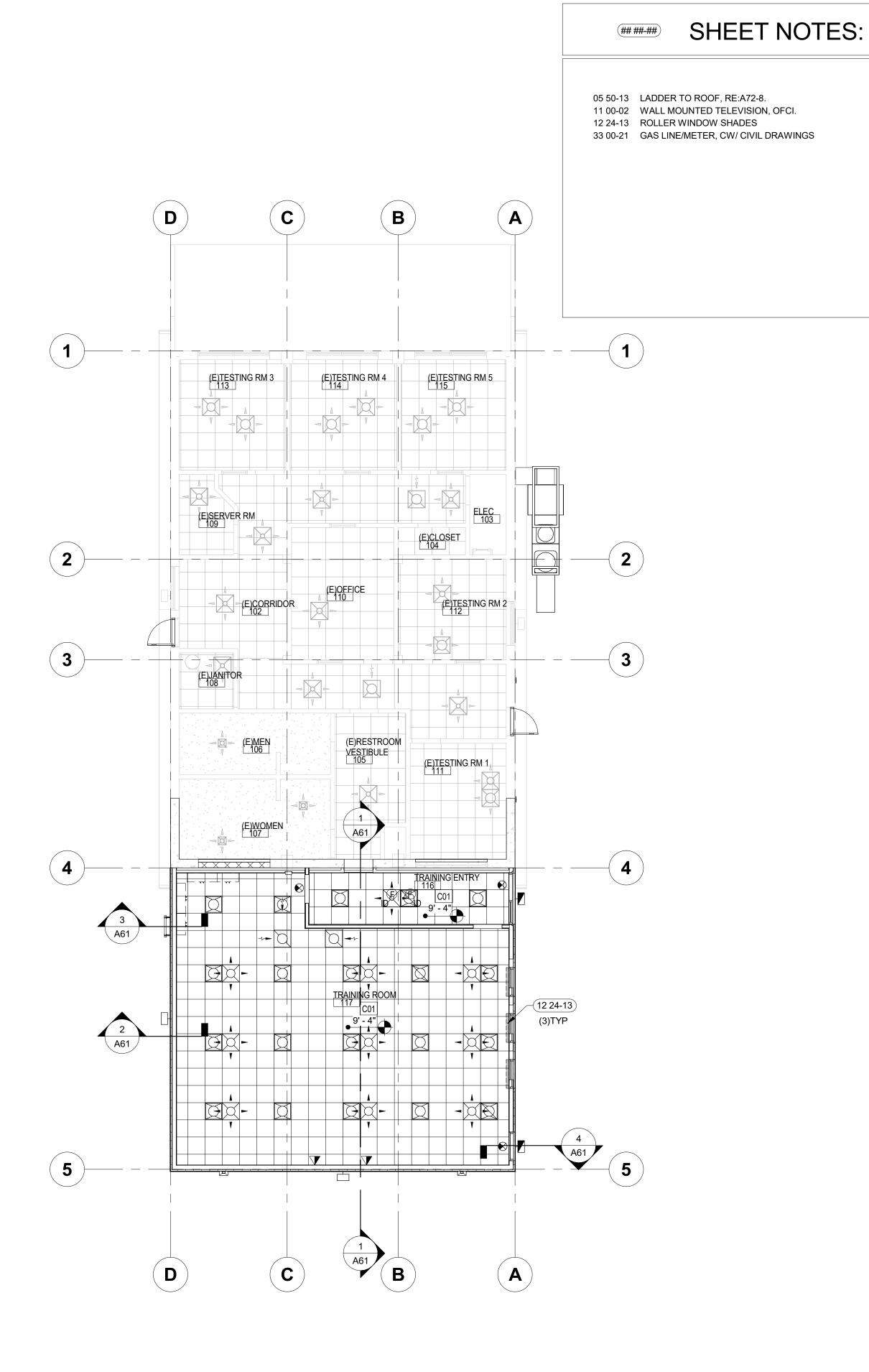
BROKEN TOP PLATE



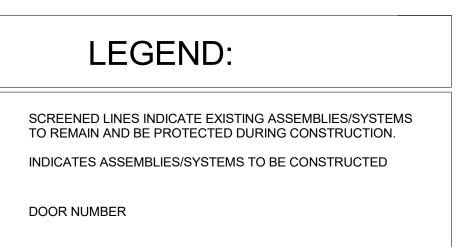
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1 FLOOR PLAN
1/8" = 1'-0"



2REFLECTED CEILING PLAN
1/8" = 1'-0"



W01 WALL TYPEFOR WALL TYPES WITH VARIABLE HEIGHT, SEE TOP OF WALL ELEVATION

O-01) SHEET NOTE, RE: SHEET NOTES LIST ON CURRENT PAGE

1 INTERIOR ELEVATIONS

WINDOW TYPE

X-# MATERIAL DESIGNATION, RE: FINISH SCHEDULE 181

X'-X" INDICATES FINISH CEILING OR SOFFIT HEIGHT ABOVE DATUM, FINISH FLOOR.

GYPSUM BOARD

2' X 2' SUSPENDED

ACOUSTICAL CEILING
PANEL SYSTEM

RE: G71 & A73

ELECTRICAL, CW/ ELECTRICAL

2' x 2' LAY-IN CEILING ACCESS PANEL

EMERGENCY
2' x 2' LAY-IN

EMERGENCY FIXTURE

EXIT SIGN (TWO ARROWS)

RECESSED CAN FIXTURE

EXIT SIGN (ONE ARROW)

PENDANT WALL WASH FIXTURE

PENDANT FIXTURE

MECHANICAL, CW/ MECHANICAL

SUPPLY REGISTER

RETURN AIR GRILLE

EXHAUS

GENERAL NOTES:

- A. FINISH FLOOR ELEVATION (100.00) IS FOR REFERENCE ONLY. SEE CIVIL SET FOR ACTUAL FLOOR ELEVATION.
- B. ALL WALL DIMENSIONS ARE TO FACE OF STUD AND/OR NOMINAL FACE OF MASONRY.
- C. PROVIDE BLOCKING WHERE REQUIRED FOR FIXTURE INSTALLATION. COORDINATE WITH FIXTURE INSTALLER FOR MOUNTING HEIGHTS.
- D. BRACE WALLS THAT DO NOT EXTEND TO STRUCTURE WITH 3 5/8" METAL STUD DIAGONAL BRACE AT 48" O.C., ANCHOR TO BOTTOM FLUTE OF ROOF DECKING AND AT TOP TRACK OF PARTITION WALL. BRACES TO BE CONCEALED WHENEVER POSSIBLE.
- E. THE HINGE SIDE OF ALL DOOR FRAMES SHALL BE MOUNTED 4" FROM ADJACENT PERPENDICULAR WALL UNLESS NOTED OTHERWISE.
- F. CONTRACTOR SHALL PROVIDE BLOCKING OR BACKING FOR ALL WALL MOUNTED AND RECESSED ACCESSORIES AND EQUIPMENT. ASSURE THAT ALL REQUIRED BACKING IS INSTALLED IN WALLS PRIOR TO INSTALLING DRYWALL. THIS INCLUDES BACKING FOR WALL-MOUNTED DOORSTOPS.
- G. THE HINGE SIDE OF ALL DOOR FRAMES SHALL BE MOUNTED 4" MIN. FROM ADJACENT PERPENDICULAR WALL U.N.O.
- H. CONTRACTOR SHALL FIELD MEASURE ALL AREAS TO RECEIVE MILLWORK PRIOR TO FABRICATION OF MILLWORK.
- I. VERIFY ALL PLUMBING FIXTURES WITH PLUMBING DRAWINGS.

D3 TRAINING ADL
V CHINDEN BLVD GARDE

PERMIT SET

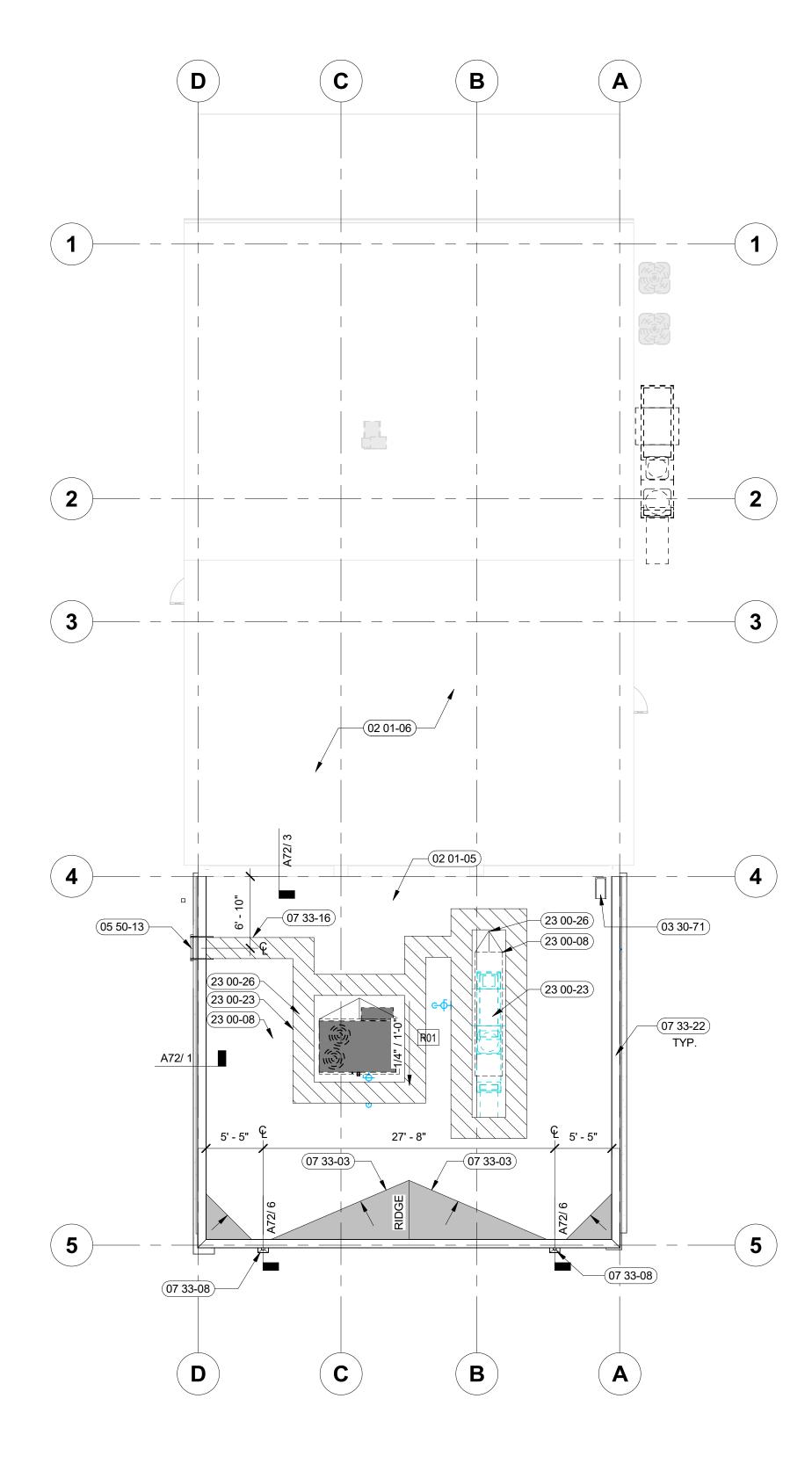
PROJECT DATE
24009 04-11-24

DRAWN CHECKED
JLH AJL

REVISED

FLOOR PLAN & RCP

SHEET





LEGEND:

SCREENED LINES INDICATE EXISTING ASSEMBLIES/SYSTEMS TO REMAIN AND BE PROTECTED DURING CONSTRUCTION. INDICATES ASSEMBLIES/SYSTEMS TO BE CONSTRUCTED

ROOF SLOPE

SHEET NOTE, RE: SHEET NOTES LIST ON CURRENT

GENERAL NOTES:

- CONTRACTOR TO VERIFY & COORDINATE DUCT LAYOUT WITH CURB AND ROOF PENETRATION LOCATIONS, REFER ALSO TO REFRIGERATION DRAWINGS FOR REFRIGERATION PIPING REQUIREMENTS AND COORDINATION.
- SEE STRUCTURAL FRAMING PLAN FOR ROOF DECK HEIGHTS TO ESTABLISH ROOF SLOPES AND ROOF MEMBER LOCATIONS.
- MAINTAIN ALL ROOF PENETRATIONS 3'-0" OR GREATER FROM FLOW LINES
- PREFABRICATED CURBS (FOR ROOF TOP MECHANICAL & REFRIGERATION EQUIPMENT SHALL BE INSTALLED BY GENERAL CONTRACTOR AND SET
- ALL DIMENSIONS ARE FOR GENERAL ARRANGEMENT & LOCATION ONLY. ACTUAL REQUIREMENTS & DIMENSIONS SHOULD BE VERIFIED AND COORDINATED WITH EQUIPMENT, SHOP DRAWING SUBMITTALS AND STRUCTURAL FRAMING.
- ALL PLANES OF ROOF SHALL SLOPE MIN. 1/4 "/L.F. TO DRAINS OR GUTTER, CW/ STRUCTURAL DRAWINGS
- NO PLUMBING VENTS OR EXHAUST UNITS WITHIN 10'-0" OF INTAKE OR 10'-0" OF EXTERIOR WALL.
- FABRICATE SHEET METAL CURB CAPS TO ALLOW FOR THICKNESS OF ROOFING PLY EXTENDING UP CURB FACE
- SCUPPER SILLS AND OVERFLOW DRAIN RIMS SHALL BE 2" ABOVE PRIMARY ROOF DRAIN RIMS. COORDINATE AND VERIFY INSTALLATIONS.
- COORDINATE ROOF CURBS WITH HVAC EQUIPMENT.
- PROVIDE 1/2" WIDE GAP IN 2 x PARAPET NAILER AT ROOF CONTROL JOINT.
- ALL ROOF OPENINGS GREATER THAN 12"X12" SHALL BE FRAMED WITH STEEL ANGLES, RE: STRUCTURAL DRAWINGS.

SHEET NOTES:

- 02 01-05 EXISTING TO GUTTER TO BE PROTECTED DURING CONSTRUCTION.
- 02 01-06 EXISTING ROOF TO BE PROTECTED DURING CONSTRUCTION.
- 03 30-71 CONCRETE SPLASH BLOCK, RE: A72-12.
- 05 50-13 LADDER TO ROOF, RE:A72-8.
- 07 33-03 POLYISOCYANURATE ROOF CRICKET. SLOPE TO BE 1/4" PER FOOT MIN. 07 33-08 SCUPPER W/ DOWNSPOUT, COLOR TO MATCH EXISTING GUTTER
- 07 33-16 HEAVY DUTY ROOF WALKING PADS
- 07 33-22 PARAPET COPING, WRAP ROOF MEMBRANE UP AND OVER PARAPET
- FRAMING, RE: A51 FOR FINISH.
- 23 00-08 MECH. EQUIPMENT CURB, RE: A72-2.
- 23 00-23 MECHANICAL ROOFTOP UNITS, C/W MECHANICAL DRAWINGS. 23 00-26 POLYISOCYANURATE ROOFTOP CRICKET, SLOPE 1/4" PER FT. MIN .

PERMIT

SET

PROJECT 04-11-24 DRAWN CHECKED JLH AJL

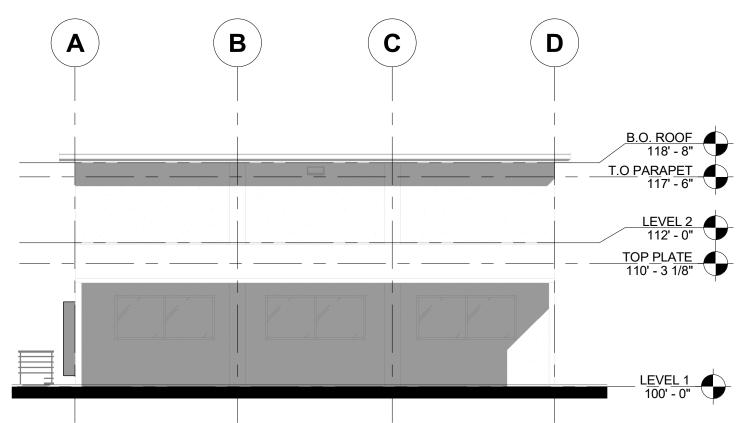
REVISED

SHEET TITLE

ROOF PLAN

SHEET





23 00-23

15' - 6"

2 NORTH ELEVATION 1/8" = 1'-0"

(D)

09 24-03



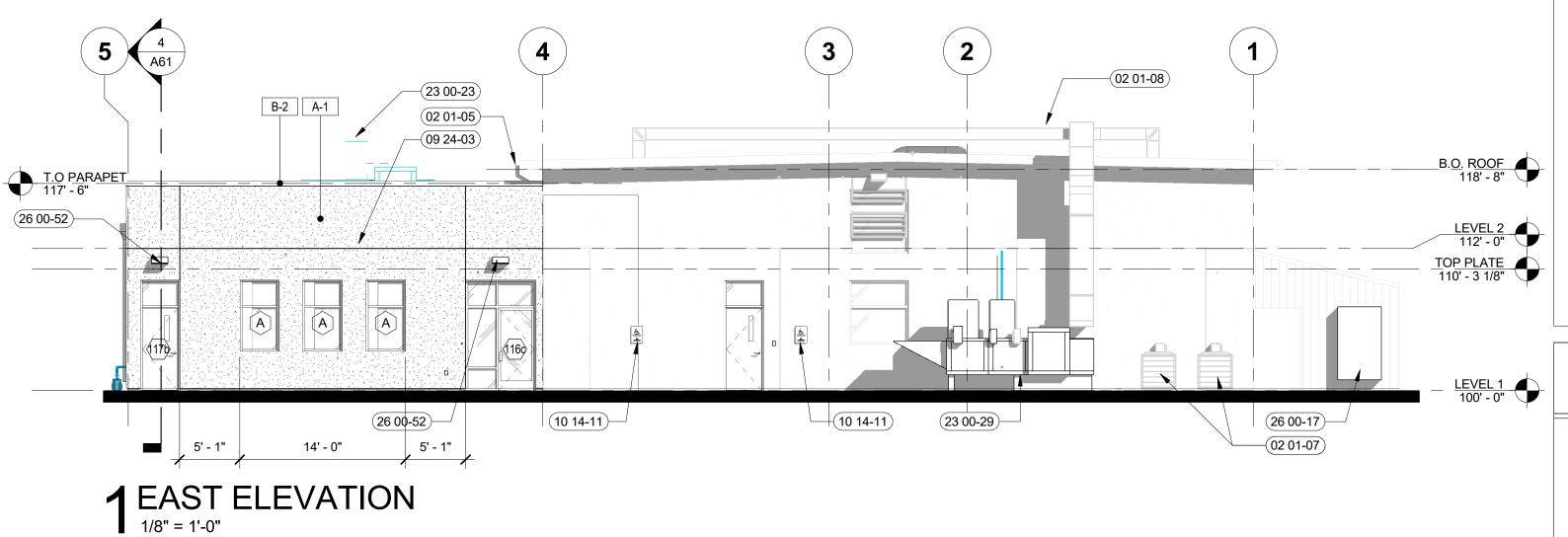
LEVEL 1 100' - 0"

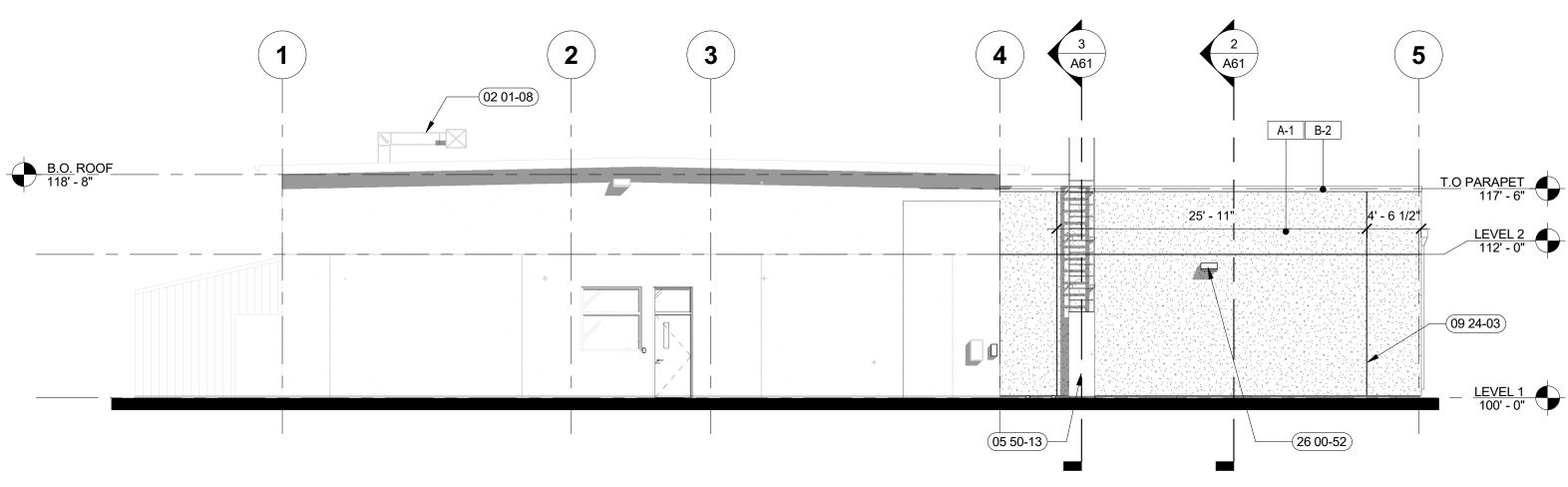
4 WEST ELEVATION

1/8" = 1'-0"

3 SOUTH ELEVATION

15' - 6"





MATERIALS & FINISH SCHEDULE:

X FINISH/COLOR 1. INTEGRAL COLOR TO MATCH SHERWIN WILLIAMS: 9088 UTAUPEIA A. STUCCO B. METAL TRIM 2. PREFINISH TO MATCH: SHERWIN WILLIAMS: 7750 OLYMPIC

RANGE

LEGEND:

SCREENED LINES INDICATE EXISTING ASSEMBLIES/SYSTEMS TO REMAIN AND BE PROTECTED DURING CONSTRUCTION. INDICATES ASSEMBLIES/SYSTEMS TO BE CONSTRUCTED

WINDOW TYPE, RE: A82 WINDOW TYPES

DOOR NUMBER, RE: A82 DOOR SCHEDULE

SHEET NOTE, RE: SHEET NOTES LIST ON CURRENT PAGE

GENERAL NOTES:

- PROVIDE MATERIAL SAMPLES FOR OWNER/ARCHITECT'S APPROVAL.
- FINISHES ARE ALSO REQUIRED AT PORTIONS OF UNDERSIDE, INSIDE FACE OF PARAPETS, AND SOFFITS EXPOSED TO PUBLIC VIEW.
- THE REFERENCE ELEVATION MARKED WITH REPRESENTS VERTICAL HEIGHTS RELATIVE TO INTERIOR FLOOR DATUM ASSUMED AT 100'-0", CW/ CIVIL FOR ACTUAL FLOOR ELEVATION.
- ALL MATERIAL SYMBOLS ARE FOR REPRESENTATION ONLY. CONTRACTOR IS RESPONSIBLE FOR DETERMINING PROPER COURSING, ETC.
- LOCATION FOR ADDRESS SIGNAGE TO BE INSTALLED AS REQUIRED AND APPROVEDBY THE CITY OF GARDEN CITY.
- ALL ROOFTOP EQUIPMENT TO BE SCREENED BY WALLS OR EQUIPMENT
- COORDINATE LOCATION OF KNOXBOX WITH FIRE MARSHALL.
- ALL BUILDING SIGNAGE IS TO BE REMOVED/ REPLACED/ INSTALLED BY ITD.

SHEET NOTES:

CONTRACTOR TO COORDINATE WITH ITD.

02 01-05 EXISTING TO GUTTER TO BE PROTECTED DURING CONSTRUCTION. 02 01-07 EXISTING MECHANICAL UNITS, C/W MECHANICAL DRAWINGS 02 01-08 EXISTING EXTERIOR DUCT SYSTEM, C/W MECHANICAL DRAWINGS

05 50-13 LADDER TO ROOF, RE:A72-8.

09 24-03 EIFS CONTROL JOINT, RE: A72-7.

10 14-11 ACCESSIBILITY SIGN MOUNTED TO WALL OF BUILDING, RE: A72-17 FOR ACCESSIBLITY SIGN INFORMATION AND C40 FOR SITE LOCATION.

23 00-23 MECHANICAL ROOFTOP UNITS, C/W MECHANICAL DRAWINGS. 23 00-29 EXISTING MECHANICAL UNITS, C/W MECHANICAL DRAWINGS

26 00-52 WALL MOUNTED LIGHT FIXTURE, RE: ELECTRICAL DRAWINGS.

26 00-17 ELECTRICAL PANELBOARD, RE: ELECTRICAL DRAWINGS.

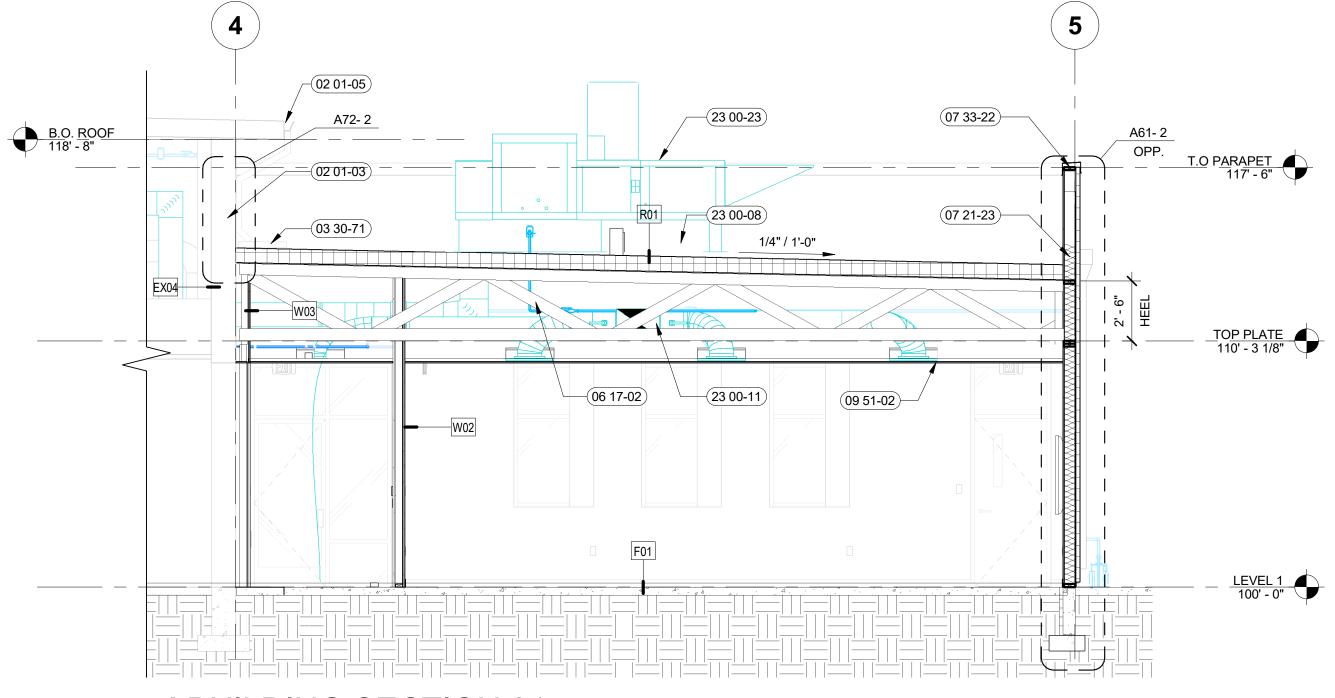
PERMIT SET

PROJECT 04-11-24 DRAWN CHECKED JLH

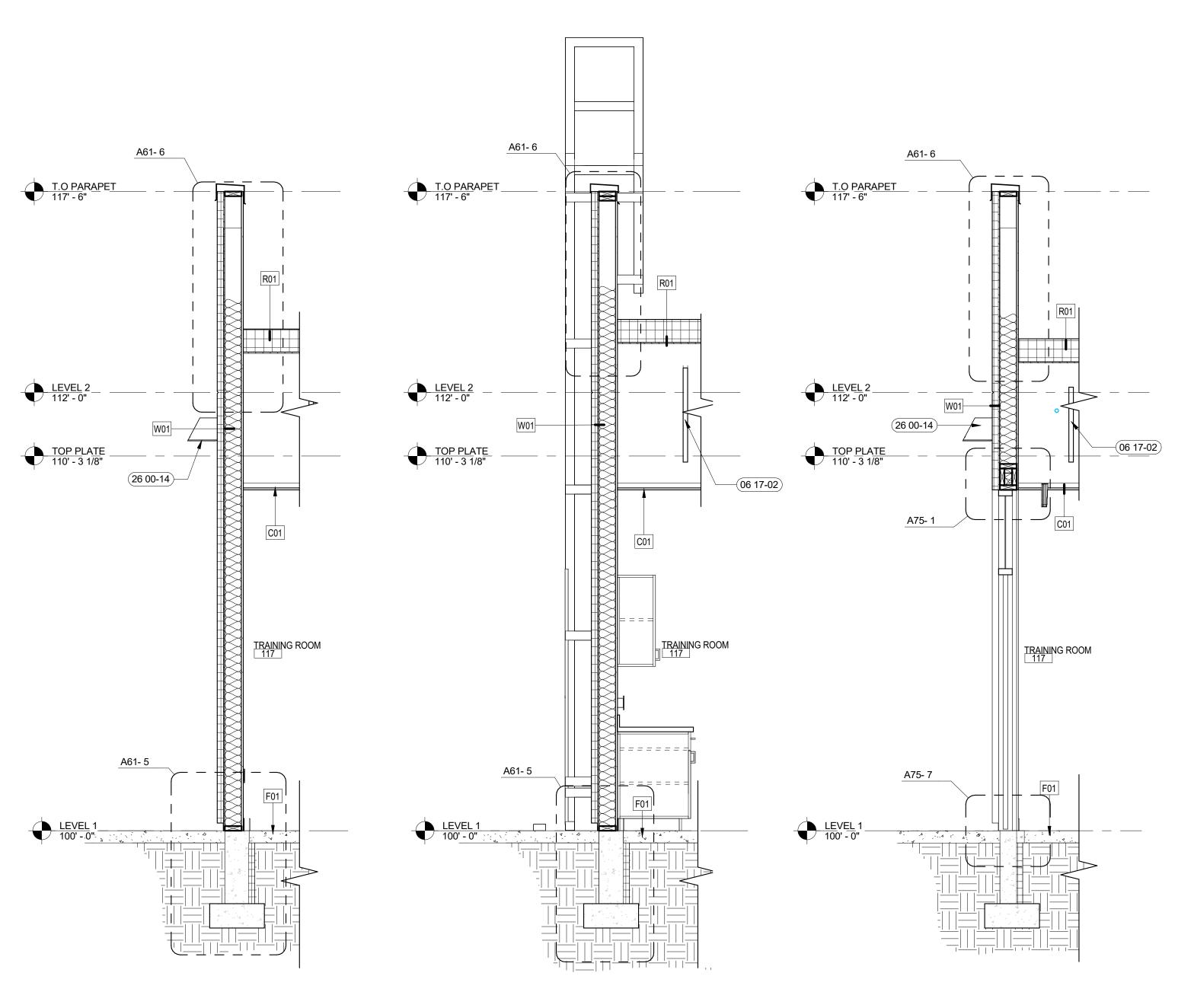
REVISED

SHEET TITLE **EXTERIOR ELEVATIONS**

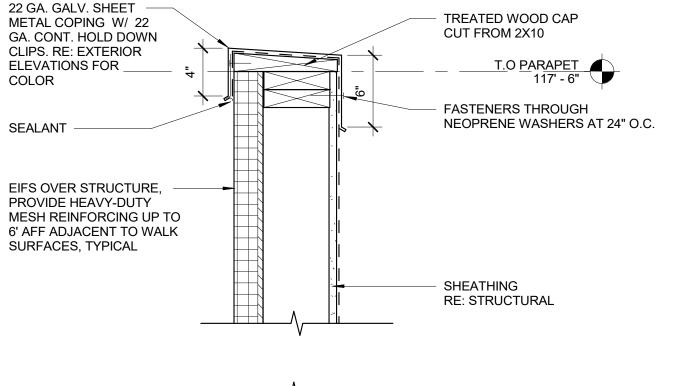
SHEET

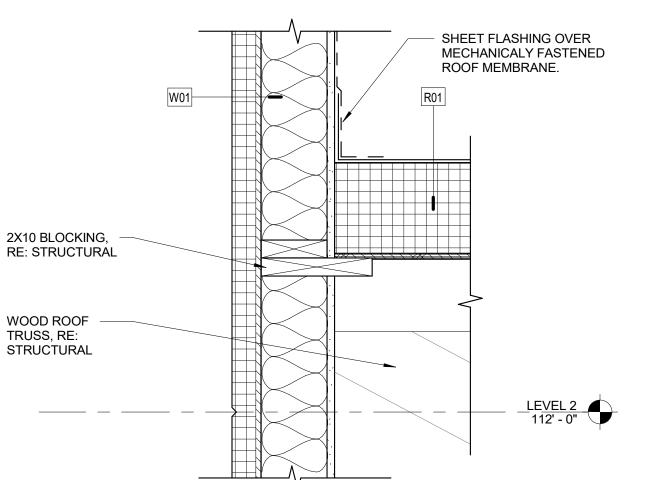


1 BUILDING SECTION 01

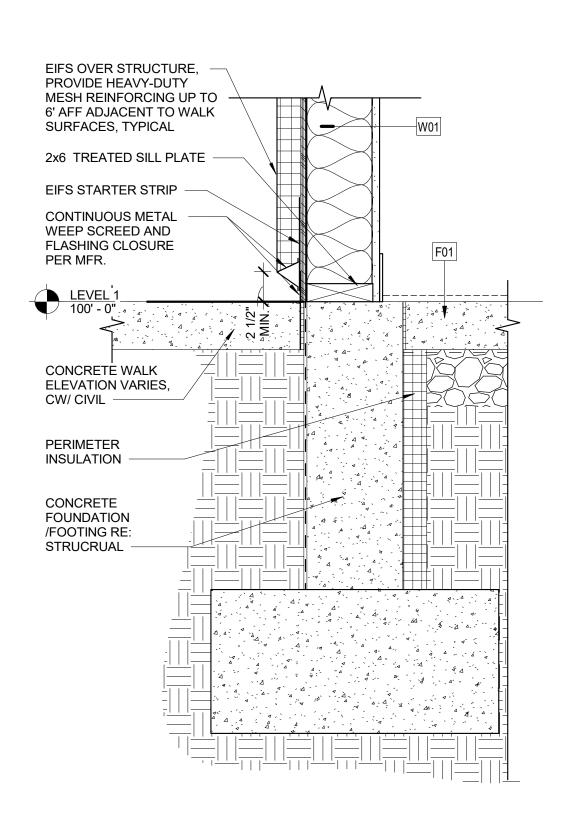


2WALL SECTION 01 3WALL SECTION 02 **4** WALL SECTION 03





6ROOF @ PARAPET



5 FOUNDATION @ EIFS

LEGEND:

SCREENED LINES INDICATE EXISTING ASSEMBLIES/SYSTEMS TO REMAIN AND BE PROTECTED DURING CONSTRUCTION.

INDICATES ASSEMBLIES/SYSTEMS TO BE CONSTRUCTED SHEET NOTE, RE: SHEET NOTES LIST ON CURRENT

00 00-01

GENERAL NOTES:

- MAINTAIN THE INTEGRITY OF ALL REMAINING BUILDING SYSTEMS AND RATINGS. REPAIR ANY DAMAGE DONE TO SURROUNDING AREAS/CONSTRUCTION DURING DEMOLITION.
- ALL EXISTING CONDITIONS ARE NOT INDICATED ON THE DRAWINGS. CONTRACTOR SHALL CAREFULLY EXAMINE THE EXISTING INSTALLATION AND ALL PROJECT DRAWINGS TO BECOME FAMILIAR WITH THE SCOPE OF WORK.
- CLEAN CONSTRUCTION DEBRIS AND DUST DAILY BEYOND CONSTRUCTION LIMITS.
- VERIFY ALL DIMENSIONS IN FIELD.
- REFER TO ELECTRICAL AND MECHANICAL DRAWINGS FOR SCOPE OF ELECTRICAL AND MECHANICAL WORK.
- CONTRACTOR SHALL PATCH AND REPAIR ANY DAMAGE OR PENETRATIONS AT ALL ELEMENTS TO REMAIN (INCLUDING BUT NOT LIMITED TO WALLS, CEILINGS FLOORS, ETC.) CAUSED BYDEMOLITION ACTIVITIES OR REMOVAL OF ELECTRICAL, MECHANICAL, AND ARCHITECTURAL ELEMENTS. REPLACE ITEMS NOT REPARABLE TO ORIGINAL STATE. EXISTING FINISH MATERIALS, INCLUDING CEILING, TRIM, ETC. SHALL BE PROTECTED AND RETAINED, UNLESS OTHERWISE NOTED.
- DEMOLITION NOT SHOWN ON SECTIONS REFER TO DEMOLITION PLANS FOR SCOPE OF DEMOLITION WORK.
- FURNITURE AND EQUIPMENT SHOWN FOR REFERENCE ONLY, RE: FURNITURE PLAN.

SHEET NOTES:

02 01-03 CONTRACTORS RESPONSIBILITY TO PROTECT EXISTING STRUCTURES 02 01-05 EXISTING TO GUTTER TO BE PROTECTED DURING CONSTRUCTION.

03 30-71 CONCRETE SPLASH BLOCK, RE: A72-12.

06 17-02 SHOP FABRICATED WOOD TRUSSES

07 21-23 EXTEND INSULATION 6" ABOVE ROOF DECK SHEATHING. 07 33-22 PARAPET COPING, WRAP ROOF MEMBRANE UP AND OVER PARAPET

FRAMING, RE: A51 FOR FINISH. 09 51-02 ACOUSTICAL TILE CEILING & GRID.

23 00-08 MECH. EQUIPMENT CURB, RE: A72-2.

23 00-11 MECHANICAL DUCT, C/W MECHANICAL DRAWINGS.

23 00-23 MECHANICAL ROOFTOP UNITS, C/W MECHANICAL DRAWINGS. 26 00-14 LIGHT FIXTURE,RE: ELECTRICAL. FOR MOUNTING HEIGHTS SEE

ELECTRICAL LIGHT FIXTURE SCHEDULE.

PERMIT SET

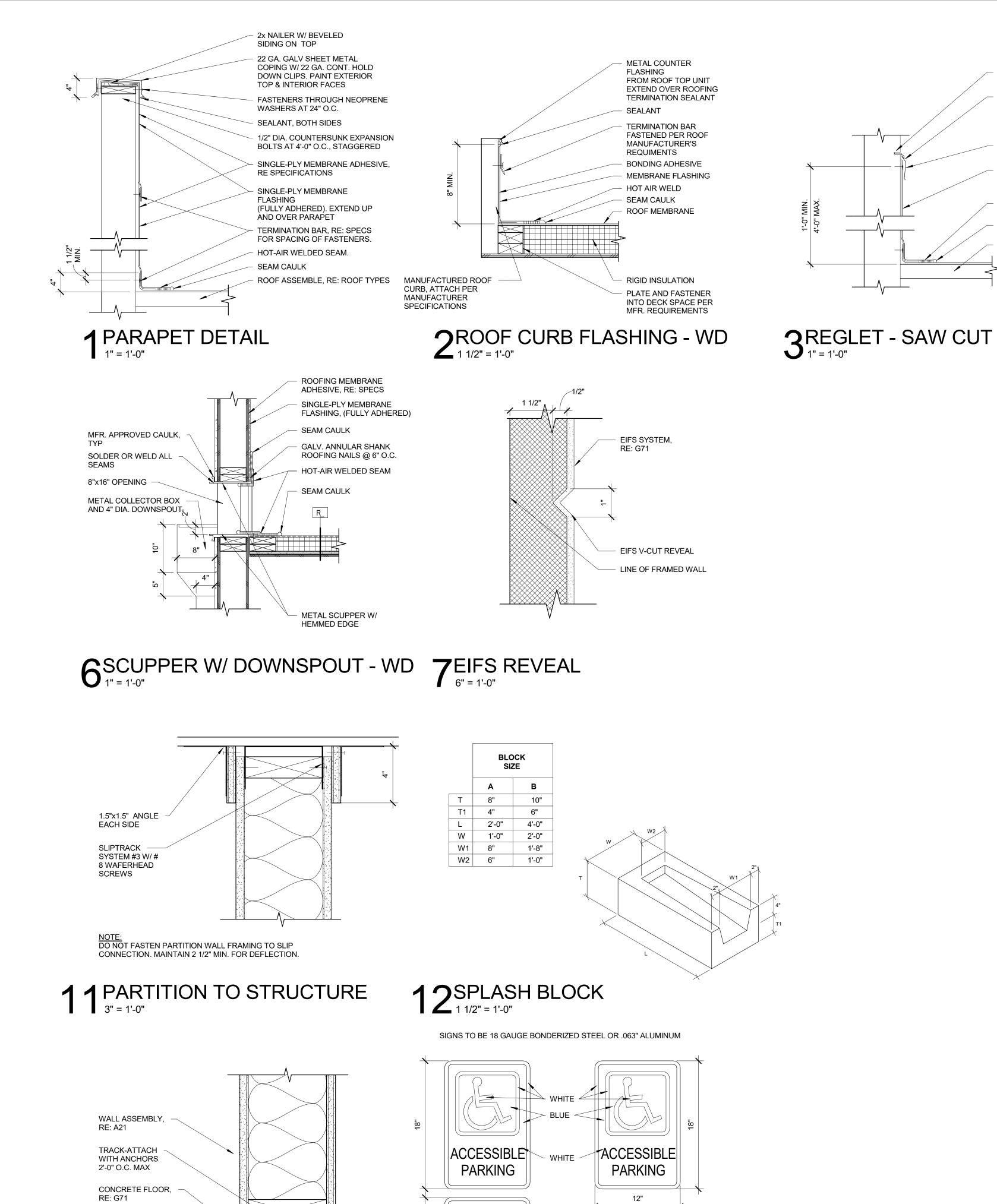
PROJECT 04-11-24 CHECKED DRAWN

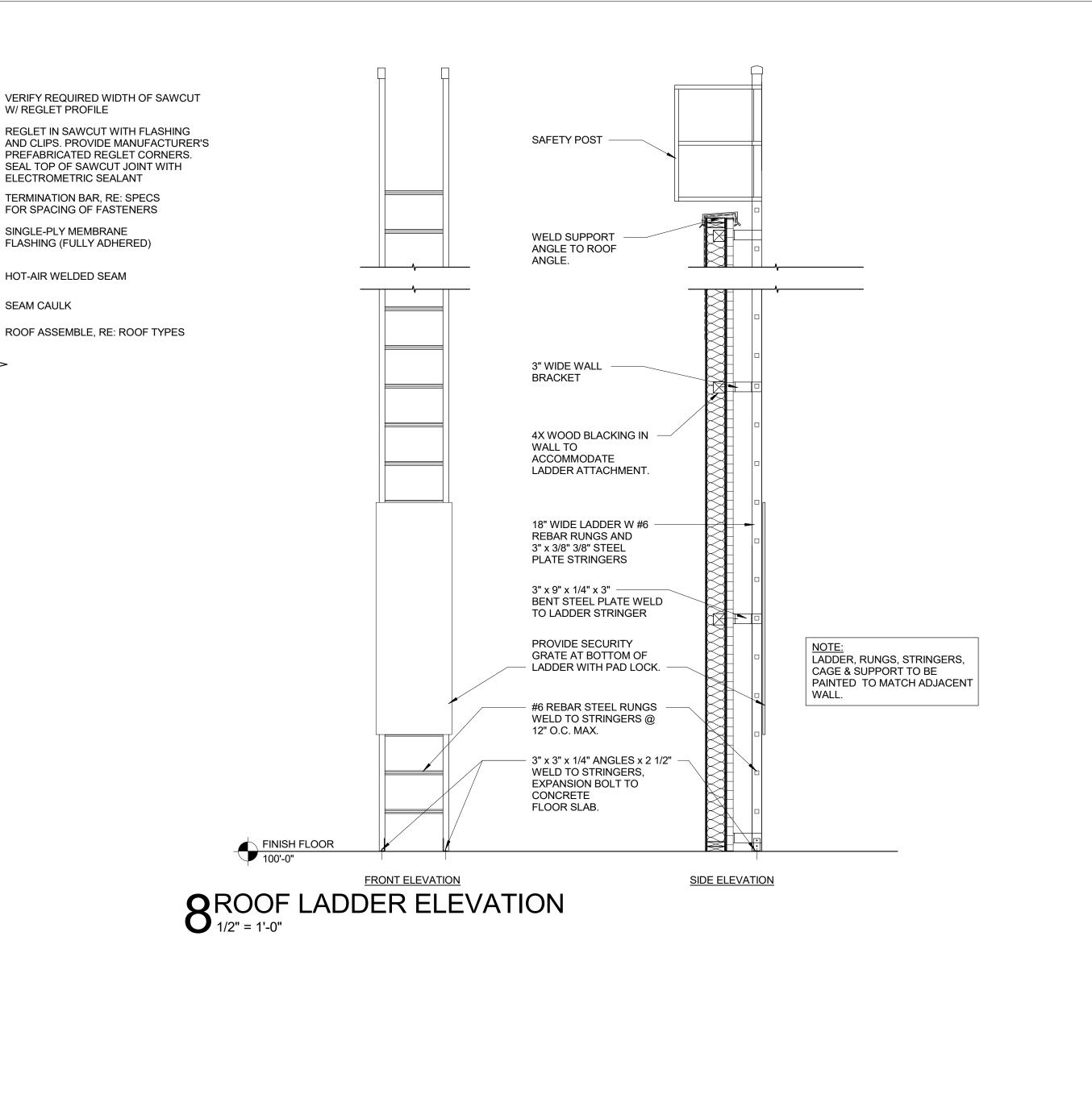
REVISED

SHEET TITLE

SECTIONS

SHEET





PERMIT

SET

DATE 04-11-24

CHECKED

AJL

PROJECT

DRAWN JLH

REVISED

SHEET TITLE

SHEET

EXTERIOR

DETAILS

ORIGINAL SHEET SIZE 24" x 36"

SEAM CAULK



ACCESSIBLE

A: VAN STALL MOUNTING HEIGHT 60" MIN.

ABOVE THE FLOOR OF THE

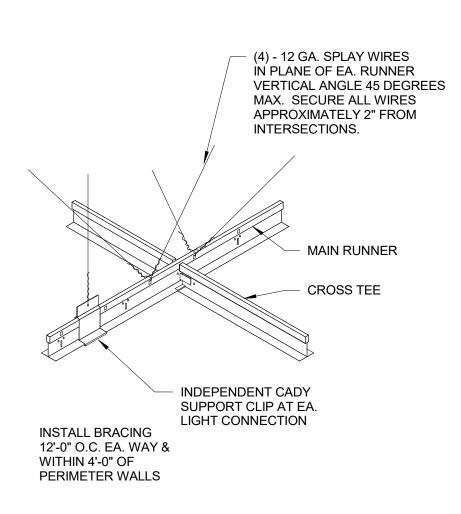
PARKING SPACE

'VAN ACCESSIBLE' SIGN TO

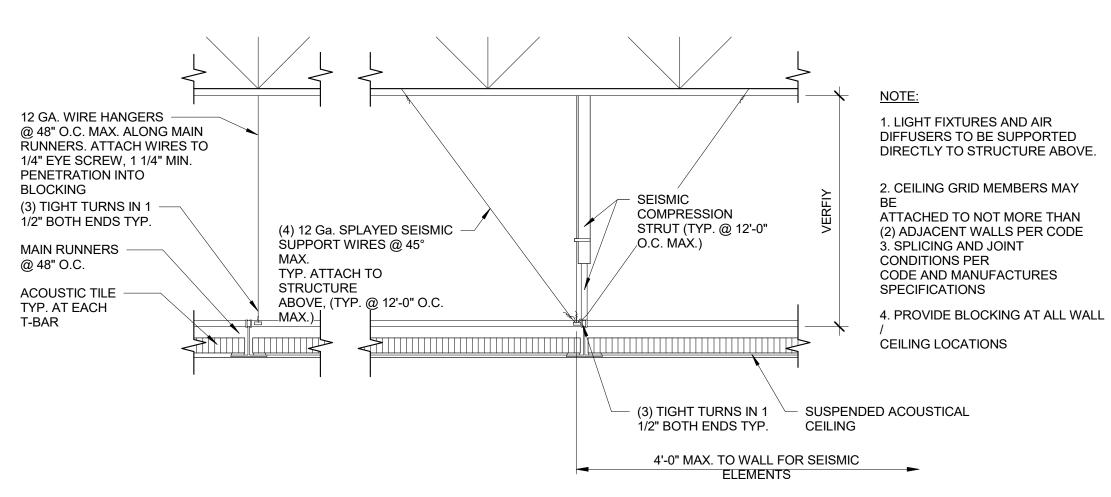
B: STANDARD STALLMOUNTING HEIGHT 48" MIN. ABOVE

THE FLOOR OF THE PARKING

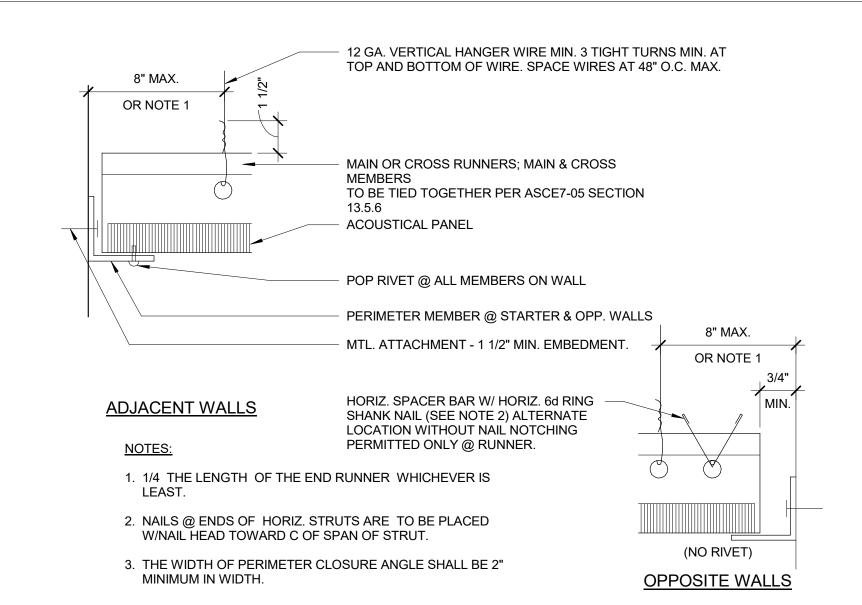
BE MOUNTED BELOW 'ACCESSIBLE PARKING' SIGN



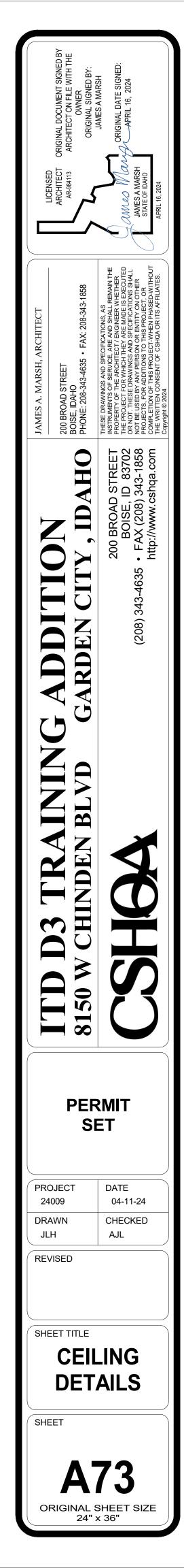


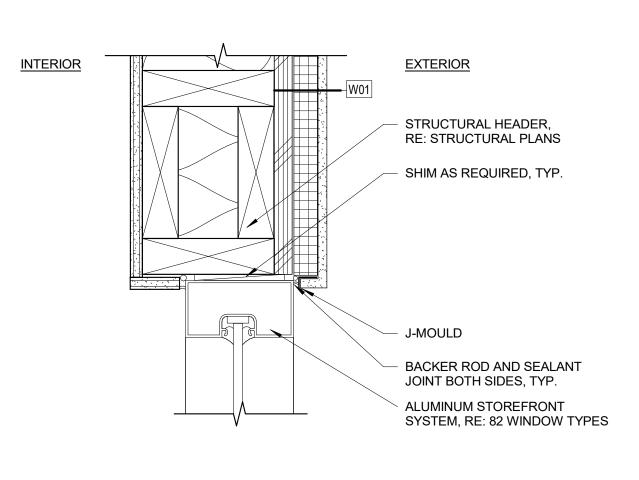


2 SUSPENDED ACOUSTICAL CEILING

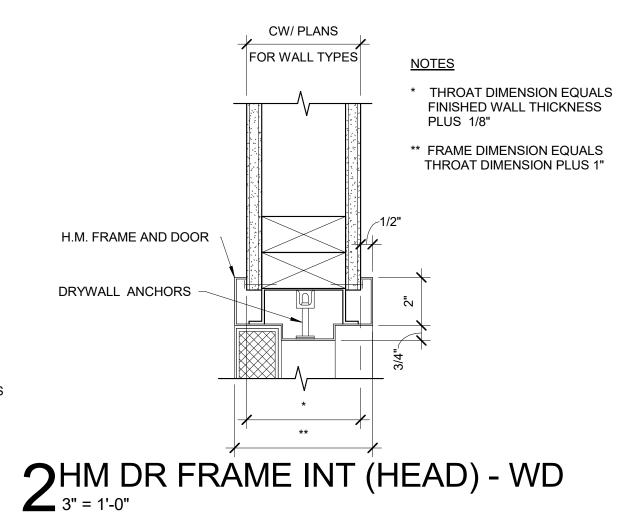


3CEILING PERIMETER





1 ALUM EXT (HEAD) - SCO/WD



H.M. FRAME WOOD FRAMING, RE: FLOOR PLANS. DRYWALL ANCHORS DOOR, RE: A__ — DOOR SCHEDULE.

* THROAT DIMENSION EQUALS FINISHED WALL THICKNESS PLUS 1/8"

EXTERIOR

EDGE OF JAMB BEYOND

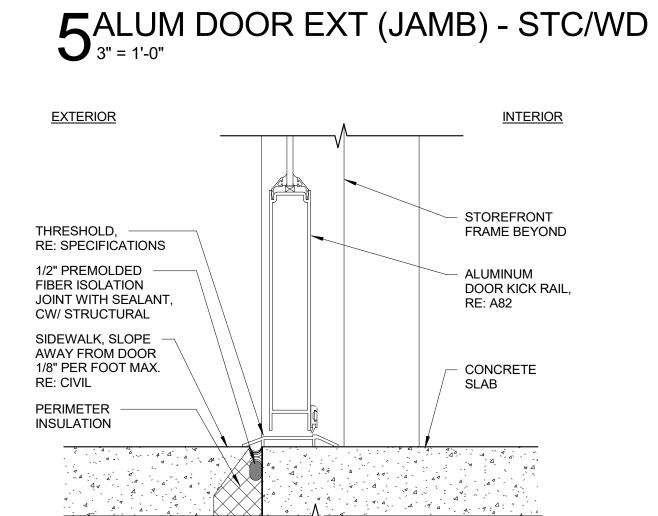
DOOR AND FRAME

ASSEMBLY AS SCHEDULED, RE: A82

SLOPE FINISH TO HEIGHT

OF CONCRETE WHERE

OCCURS



EXTERIOR

<u>INTERIOR</u>

BACKER ROD AND SEALANT JOINT BOTH SIDES, TYP.

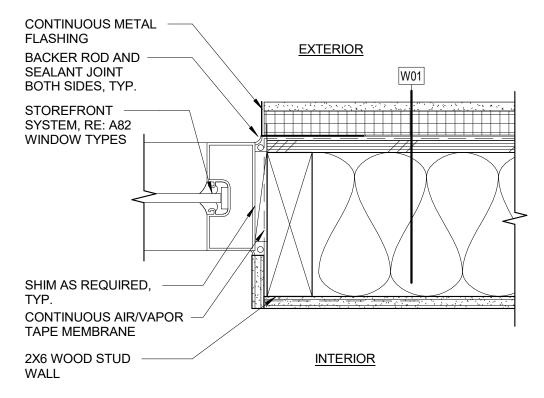
- ALUM. EXTERIOR DOOR RE: A82

SHIM AS REQ'D, TYP.

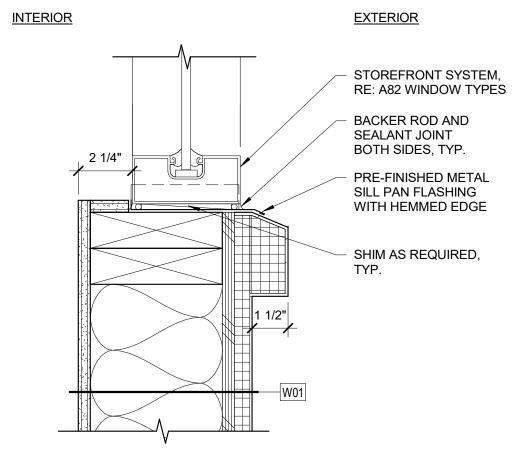
2X6 WOOD STUD

CONTINUOUS AIR/VAPOR TAPE MEMBRANE

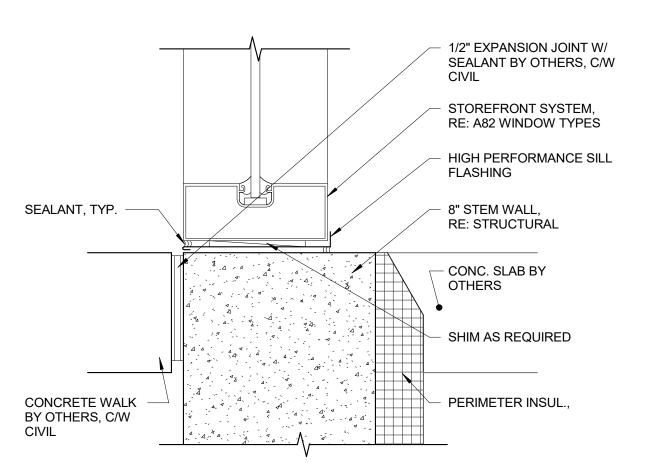




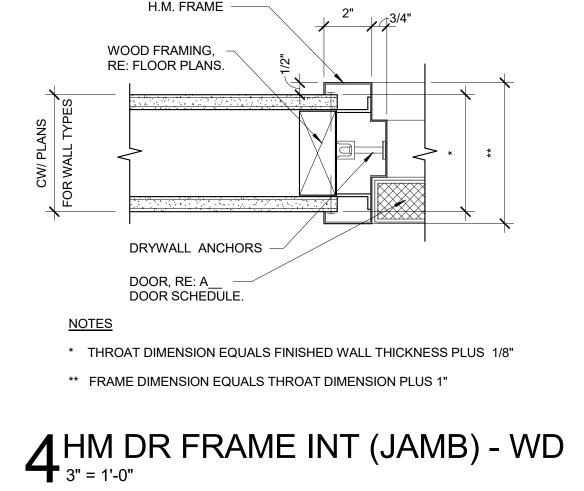
3ALUM EXT (JAMB) - SCO/WD

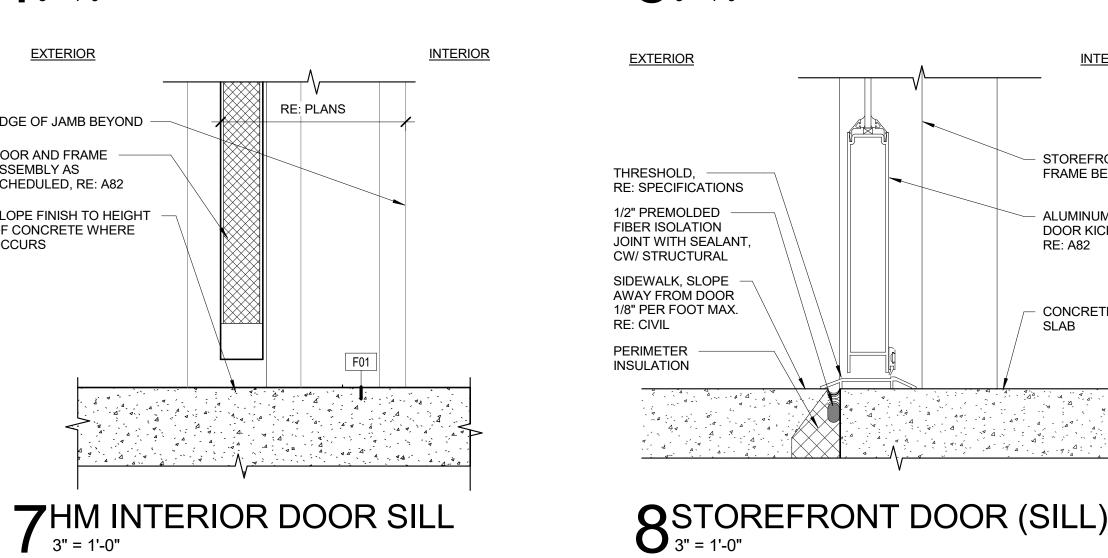


6ALUM EXT (SILL) - SCO/WD

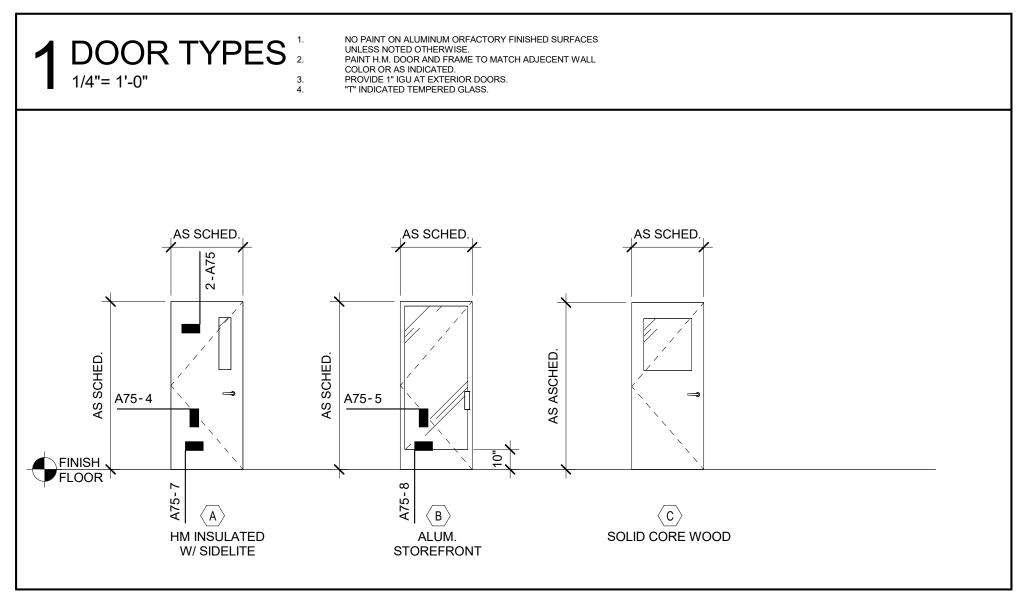


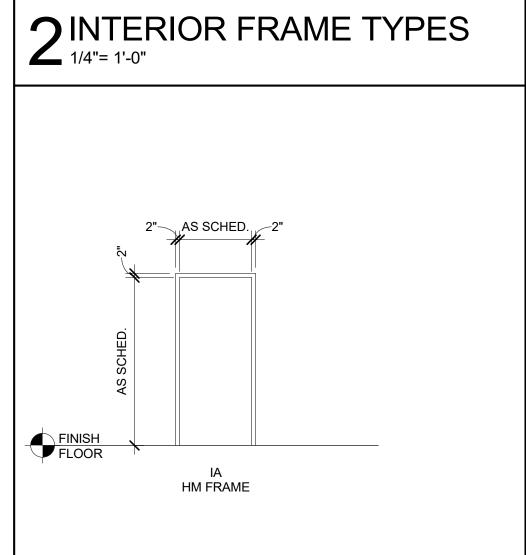
9ALUM EXT (SILL) AT SLAB

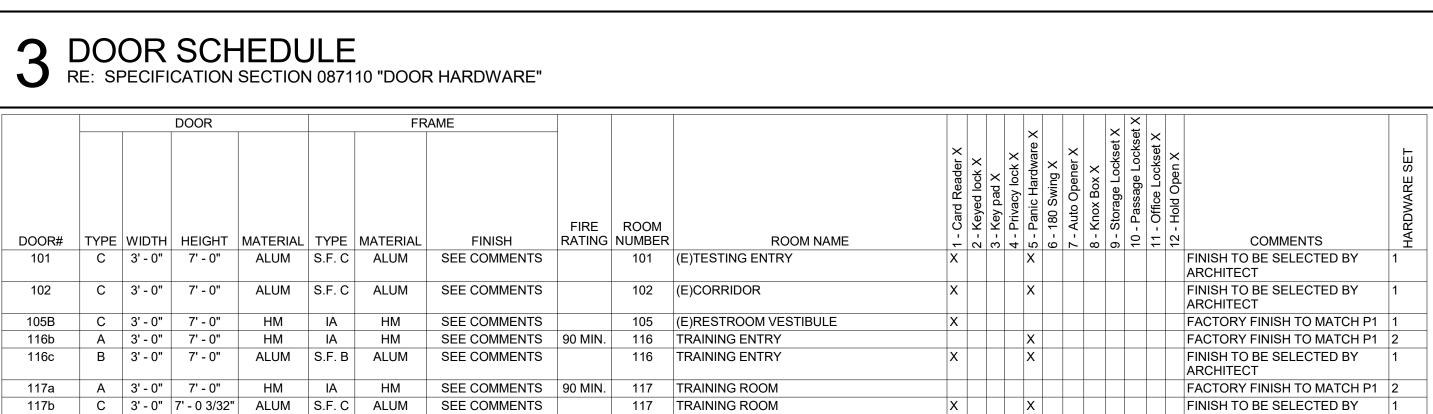


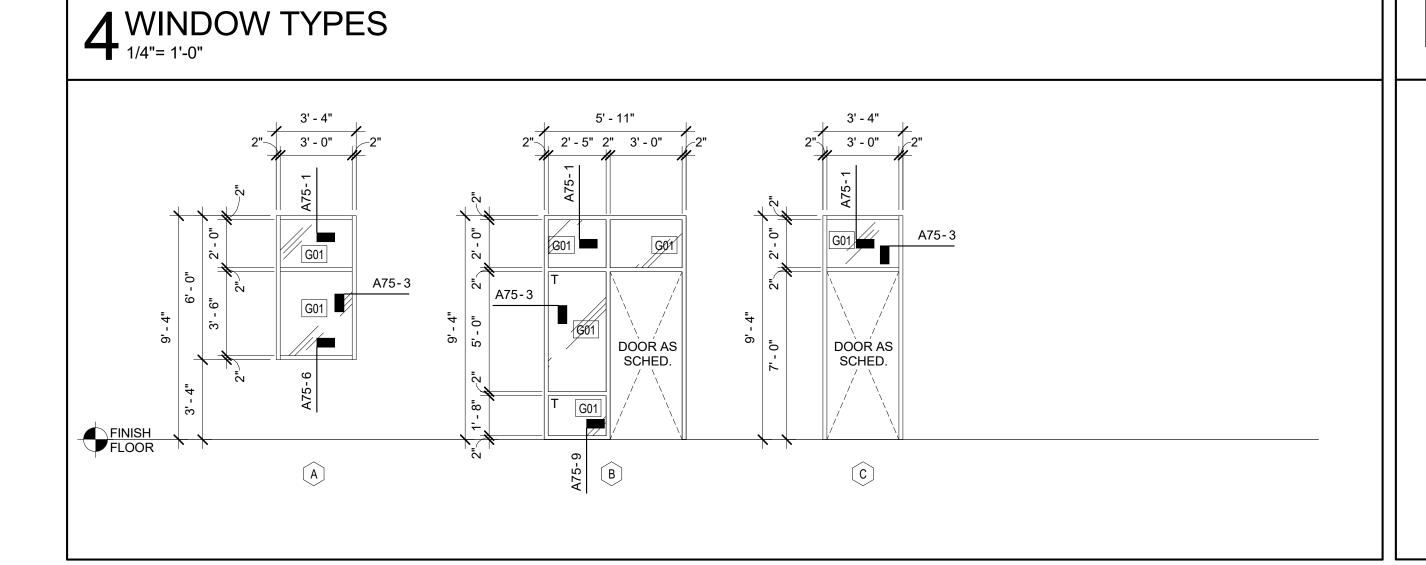


8STOREFRONT DOOR (SILL)









HG DOOR HARDWARE GROUP RE: SPECIFICATION SECTION 087110 "DOOR HARDWARE"

HARDWARE SET NO. 1: ALUMINUM ENTRY

HINGES - PER STOREFRONT MANUFACTURER KEY CYLINDER (1) CONSTRUCTION CORE EXIT INDICATOR (1) ADAMS RITE #4089 (1) ROCKWELL PUSH/ PULL

(1) LCN 1460 OR EQUAL, TOP JAMB MOUNTED CLOSER (1) HAGAR SILENCER (1) VON DUPIN ELECTRONIC CONTROLLED (OR EQUAL) RE: DOOR SCHEDULE

(1) KEYPAD OR RF UNIT. CW/ OWNER TO REQUIREMENTS KEYPAD/RF

HARDWARE SET NO. 2: PRIVACY

HINGES (3) HAGAR 1279 41/2 X 41/2

LOCKSET (1) SCHLAGE ND40S, FINISH 619, ATHENS (OR EQUAL) CLOSER (1) LCN 1460 OR EQUAL, TOP JAMB MOUNTED STOP (1) HAGAR 230 WALL STOP OR 241 W DOME STOP

DOOR GENERAL NOTES:

- VERIFY ROUGH OPENING IN FIELD.
- INSTALL DOORS AND FRAMES PER MANUFACTURER'S REQUIREMENTS.
- ALL EXITS SHALL BE OPENABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT.
- FOR HARDWARE SETS, RE: SPECIFICATIONS, DIVISION 087100 DOOR

WINDOW GENERAL NOTES:

- ALL MATERIALS TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
- ROUGH OPENINGS INCLUDE SHIM SPACE WITH SEALANT JOINT ON ALL
- DIMENSIONS REFLECT DESIGN INTENT. GENERAL CONTRACTOR IS RESPONSIBLE FOR FIELD MEASUREMENT OF ALL ROUGH OPENINGS PRIOR TO INSTALLATION OF WINDOWS.
- RE: FLOOR PLAN AND EXTERIOR ELEVATIONS FOR WINDOW LOCATIONS.

MATERIAL LEGEND:

MATERIAL GL GLASS MFR. MANUFACTURER WD WOOD ALUM ALUMINUM GALV GALVANIZED METAL SS STAINLE STL STEEL STAINLESS STEEL

GLAZING LEGEND:

GLASS DESIGNATION

1" INSULATED GLASS, LOW-E, TEMPERED SAFETY GLASS, GRAY TINTED.

T TEMPERED SAFETY GLASS, GRAY TINTED.

SHEET NOTES:

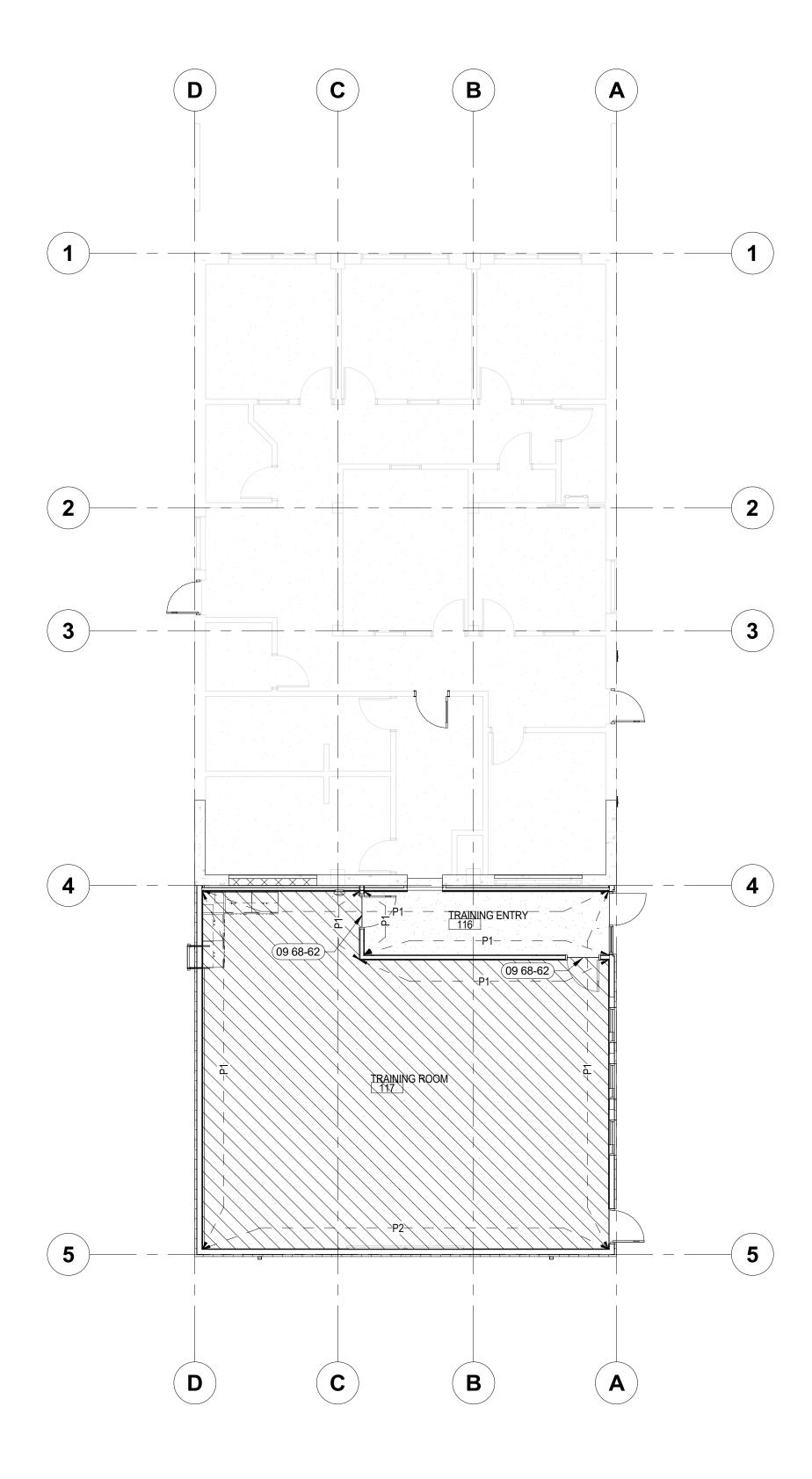
PERMIT SET

PROJECT 04-11-24 CHECKED DRAWN JLH

REVISED

SHEET

DOOR & **WINDOW SCHEDULES**



1 FLOOR FINISH PLAN - LEVEL 1
1/8" = 1'-0"

LEGEND:



CARPET TILE SYSTEM, MANNINGTON COMMERICIAL, SCRIPT MODULAR BOROUGH 15217 INSTALLATION - HORIZONTALBRICK ASHLAR RE: FLOORING AND WALL BASE SCHEDULE 181



NATURAL CONCRETE FLOORING, RE: FLOORING AND WALL BASE SCHEDULE 181



FLOORING DESIGNATION,

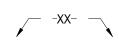


WALL BASE DESIGNATION,

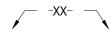
RE: FLOORING & WALL BASE SCHEDULE 181



RE: FLOORING & WALL BASE SCHEDULE 181 SHEET NOTE, RE: SHEET NOTES LIST ON CURRENT



WALL FINISH/BASE DESIGNATION, RE: FINISH SCHEDULE



→ WOOD GRAIN DESIGNATION, RE: FINISH SCHEDULE 181

GENERAL NOTES:

- DIMENSION IS NOT SHOWN ON INTERIOR SHEETS UNLESS INTERIOR SPECIFIC. REFER ARCHITECTURAL DRAWINGS FOR DIMENSIONS.
- FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION / ORDERING.
- ALL TRANSITION IN FLOORING ARE TO OCCUR DIRECTLY BENEATH DOORS
- ALL GYPSUM BOARD APPLICATIONS SHALL BE SANDED, TAPED AND MUDDED AS NECESSARY.
- PROVIDE A MAXIMUM OF 1/2" OFFSET AT ALL THRESHOLDS AND AT ANY CHANGES OF FLOORING MATERIAL. ICC/ANSI A117.1 SECTION 303.
- ALL HOLLOW METAL DOOR FRAMES TO BE PAINTED (P__).
- ALL MATERIALS ARE TO BE INSTALLED PER MANUFACTURERS INSTRUCTIONS USING APPROPRIATE ADHESIVE.
- SMOOTH FLOOR SUBSTRATE SURFACES. SAND OR GRIND SUBFLOORS TO REMOVE IRREGULARITIES. FILL LOW SPOTS, CONTROL OR CONSTRUCTION JOINTS AND OTHER DEFECTS AS REQUIRED TO PROVIDE UNIFORM SUBSTRATE FOR FLOOR FINISHES.
- FINISHES NOT REQUIRED ON WALL AREA CONCEALED BY PERMANENT FIXTURES.
- FINISHES SHALL EXTEND A MINIMUM OF 6" BEHIND FIXTURE.
- PAINT ALL INTERIOR GYPSUM BOARD CEILINGS AND SOFFITS.
- NO ITEM TO BE INSTALLED ON FINISH WALL MATERIALS WITHOUT PROJECT MANAGER AND OWNER'S APPROVAL.
- ALL EXPOSED VENTS, ACCESS PANELS AND SIMILAR ITEMS TO BE PAINTED TO MATCH THE WALL OR CEILING SURFACES THAT THEY ARE ON.
- REFER TO ENLARGED PLANS, ELEVATIONS, FINISH SCHEDULES FOR ADDITIONAL FINISH INFORMATION.
- EXTEND RUBBER BASE A MINIMUM OF 6", MAXIMUM OF 12" BEHIND

SHEET NOTES:

09 68-62 CARPET (CPT) TO SEALED CONCRETE (SC) TRANSITIONS. PROVIDE FLOOR TRANSITION. RE: 171-3 FOR TRANSITION DETAIL.

PERMIT SET

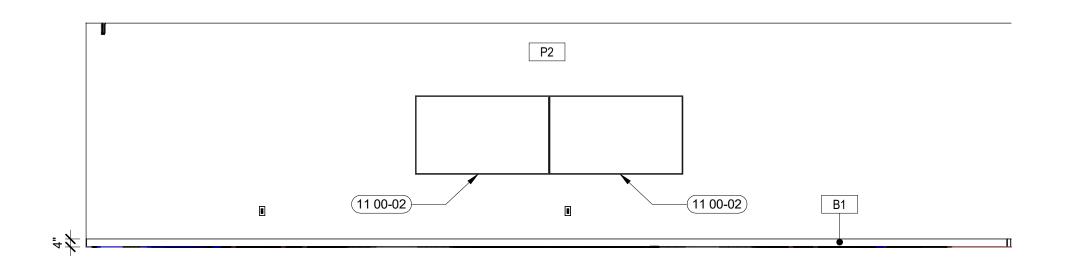
PROJECT 04-11-24 DRAWN CHECKED

REVISED

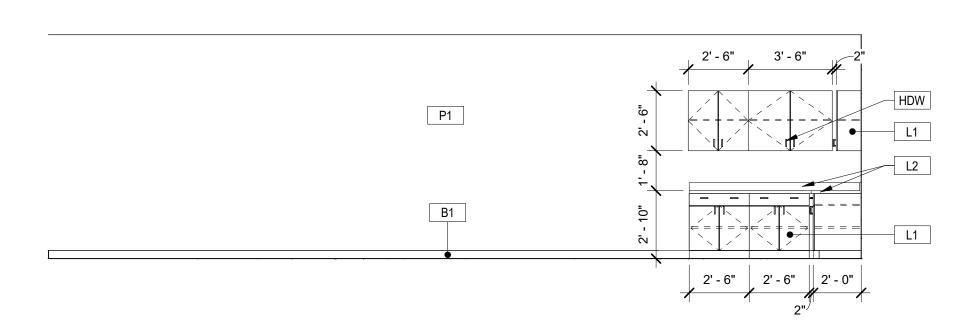
SHEET TITLE

FLOOR FINISH PLAN

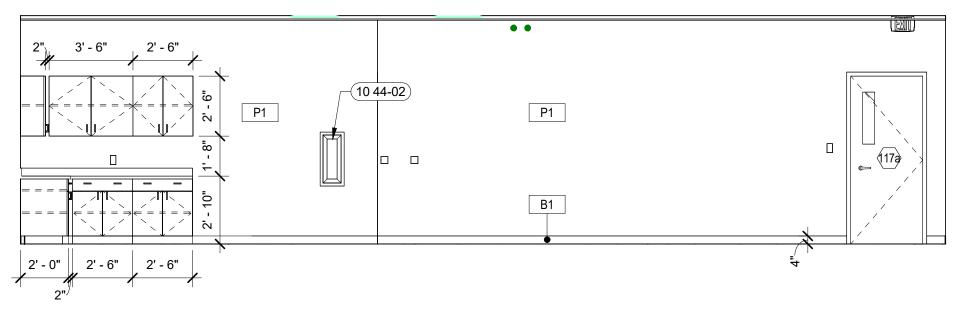
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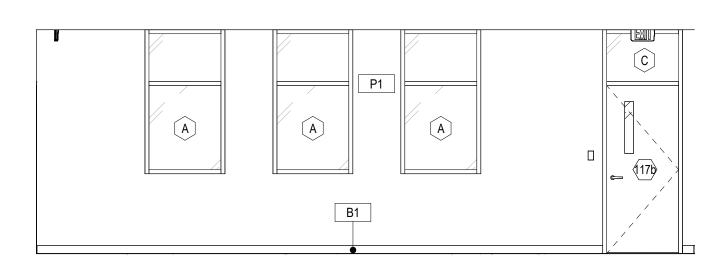
1 117 - SOUTH 1/4" = 1'-0"



2117 - WEST



3117 - NORTH



4117 - EAST

LEGEND:

SCREENED LINES INDICATE EXISTING ASSEMBLIES/SYSTEMS TO REMAIN AND BE PROTECTED DURING CONSTRUCTION.

INDICATES ASSEMBLIES/SYSTEMS TO BE CONSTRUCTED

INDICATES ASSEMBLIES/SYSTEMS TO BE CONSTRUCT
SHEET NOTE, RE: SHEET NOTES LIST ON CURRENT
PAGE

X-# MATERIAL DESIGNATION, RE: FINISH SCHEDULE 181

WALL FINISH/BASE DESIGNATION, RE: FINISH SCHEDULE

→ WOOD GRAIN DESIGNATION, RE: FINISH SCHEDULE I81

ARCHITECTURAL

00 00-01

FLOORING

- F1 EXPOSED SEALED CONCRETE WITH SMOOTH TROWEL FINISH
- F2 CARPET TILE: MANNINGTON COMMERCIAL, SCRIPT MODULAR BOROUGH 15217, INSTALLATION HORIZONTAL BRICK ASHLAR

WALL BASE

B1 - JOHNSONITE, 4" RUBBER BASE #48 GREY WG

<u>PAINT</u>

- P1 SHERWIN WILLIAMS #SW 7050 USEFUL GREY
- P2 SHERWIN WILLIAMS #SW 6965 HYPER BLUE
- P3 SHERWIN WILLIAMS #9088 UTAUPEIA
- P4 SHERWIN WILLIAMS #7750 OLYMPIC RANGE

LAMINATE / WALL FINISHES

- L1 WILSONART, PORTICO TEAK #8210K-28
- L2 WILSONART, ORGANIC COTTON #4945-38
- HDW 4" WIRE PULL

GENERAL NOTES:

- A. DIMENSION IS NOT SHOWN ON INTERIOR SHEETS UNLESS INTERIOR SPECIFIC. REFER ARCHITECTURAL DRAWINGS FOR DIMENSIONS.
- B. FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION / ORDERING.
- C. ALL TRANSITION IN FLOORING ARE TO OCCUR DIRECTLY BENEATH DOORS
- D. ALL GYPSUM BOARD APPLICATIONS SHALL BE SANDED, TAPED AND MUDDED AS NECESSARY
- E. PROVIDE A MAXIMUM OF 1/2" OFFSET AT ALL THRESHOLDS AND AT ANY

CHANGES OF FLOORING MATERIAL. ICC/ANSI A117.1 SECTION 303.

- F. ALL HOLLOW METAL DOOR FRAMES TO BE PAINTED (P__).
- G. ALL MATERIALS ARE TO BE INSTALLED PER MANUFACTURERS INSTRUCTIONS USING APPROPRIATE ADHESIVE.
- H. SMOOTH FLOOR SUBSTRATE SURFACES. SAND OR GRIND SUBFLOORS TO REMOVE IRREGULARITIES. FILL LOW SPOTS, CONTROL OR CONSTRUCTION JOINTS AND OTHER DEFECTS AS REQUIRED TO PROVIDE UNIFORM SUBSTRATE FOR FLOOR FINISHES.
- I. FINISHES NOT REQUIRED ON WALL AREA CONCEALED BY PERMANENT FIXTURES.
- J. FINISHES SHALL EXTEND A MINIMUM OF 6" BEHIND FIXTURE.
- K. PAINT ALL INTERIOR GYPSUM BOARD CEILINGS AND SOFFITS.
- L. NO ITEM TO BE INSTALLED ON FINISH WALL MATERIALS WITHOUT PROJECT MANAGER AND OWNER'S APPROVAL.
- M. ALL EXPOSED VENTS, ACCESS PANELS AND SIMILAR ITEMS TO BE PAINTED TO MATCH THE WALL OR CEILING SURFACES THAT THEY ARE ON.
- N. REFER TO ENLARGED PLANS, ELEVATIONS, FINISH SCHEDULES FOR ADDITIONAL FINISH INFORMATION.
- O. EXTEND RUBBER BASE A MINIMUM OF 6", MAXIMUM OF 12" BEHIND

SHEET NOTES:

10 44-02 FIRE EXTINGUISHER IN RECESSED CABINET, (MINIMUM 2A-10BC), RE: 171-4.
 11 00-02 WALL MOUNTED TELEVISION, OFCI.

LICENSED
ARCHITECT ORIGINAL DOCUMENT SIGNED B
AR-384113 ARCHITECT ON FILE WITH THE
OWNER
ORIGINAL SIGNED BY:
JAMES A MARSH
STATE OF IDAHO

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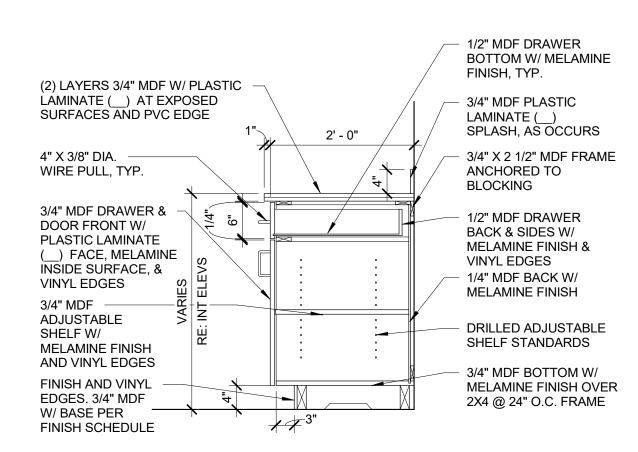
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INTERIOR ELEVATIONS

SHEET



BASE CABINET wBACKSPLASH 1 DRAWERS/ DOOR 3/4" = 1'-0"

-XXX

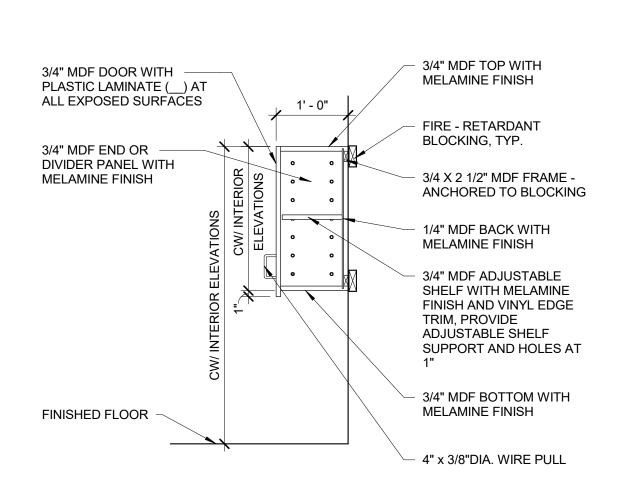
PERSONS

NOTE: SIGNS TO BE PROVIDED UNDER SIGNAGE CONTRACT

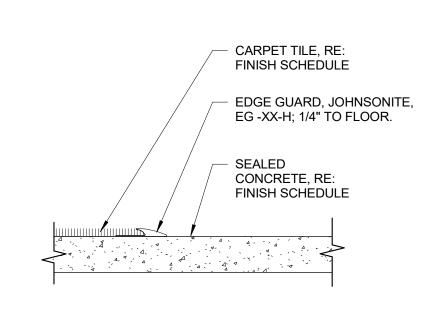
6 OCCUPANCY LIMIT

OCCUPANCY

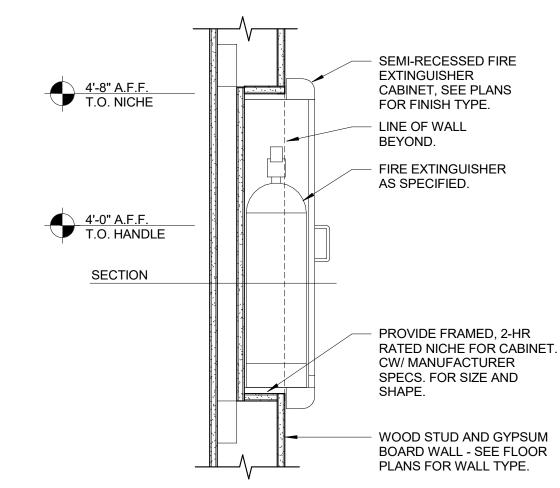
NUMBER, RE: G__



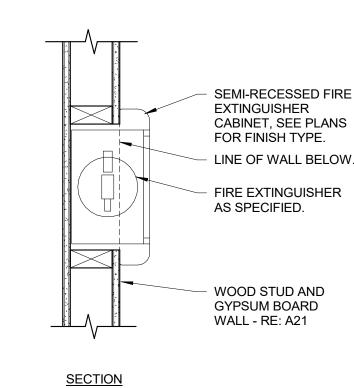
2UPPER CABINET



CPT TO SC FLOORING (EDGE 3GUARD)



4 FIRE EXTINGUISHER DETAIL
1 1/2" = 1'-0"



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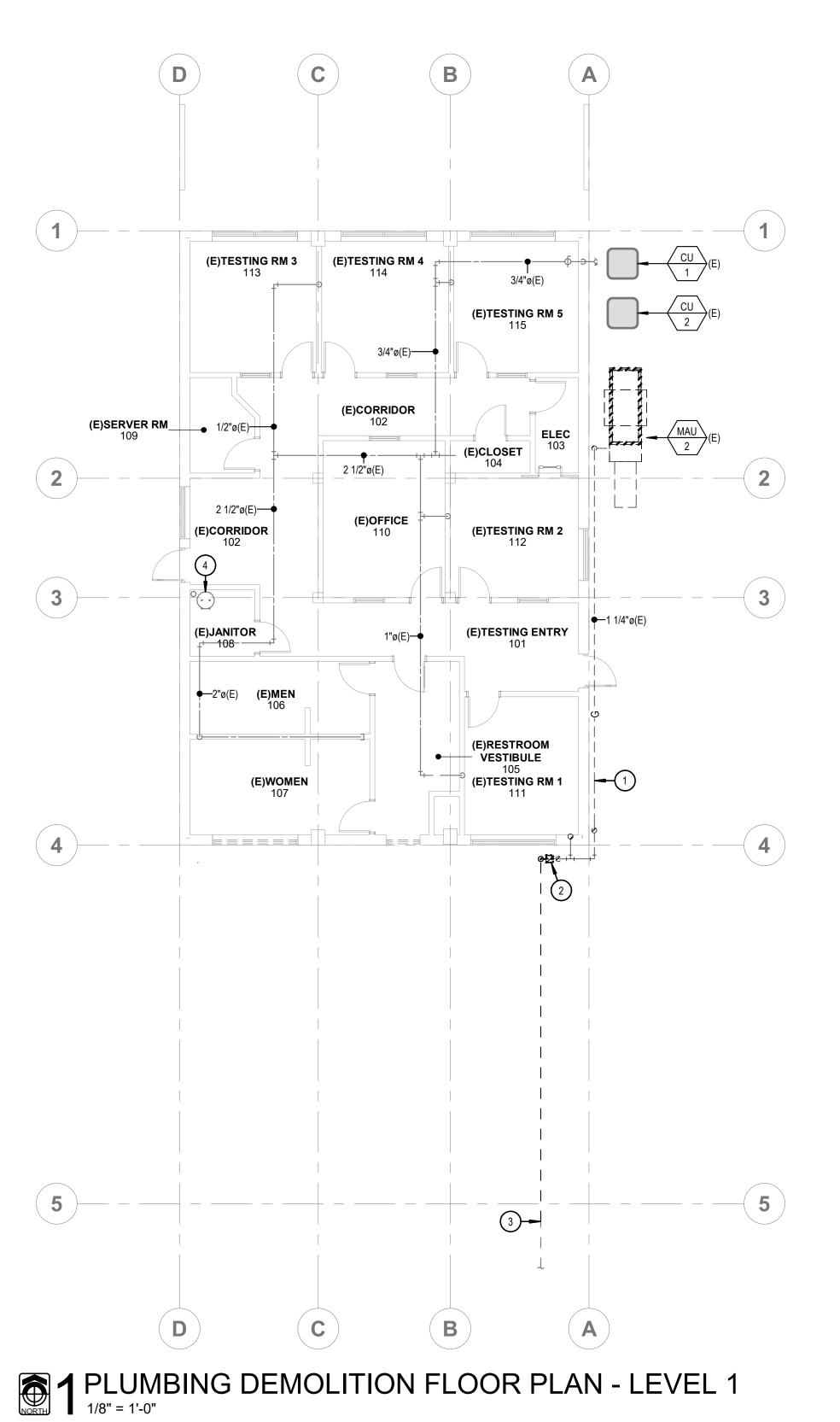
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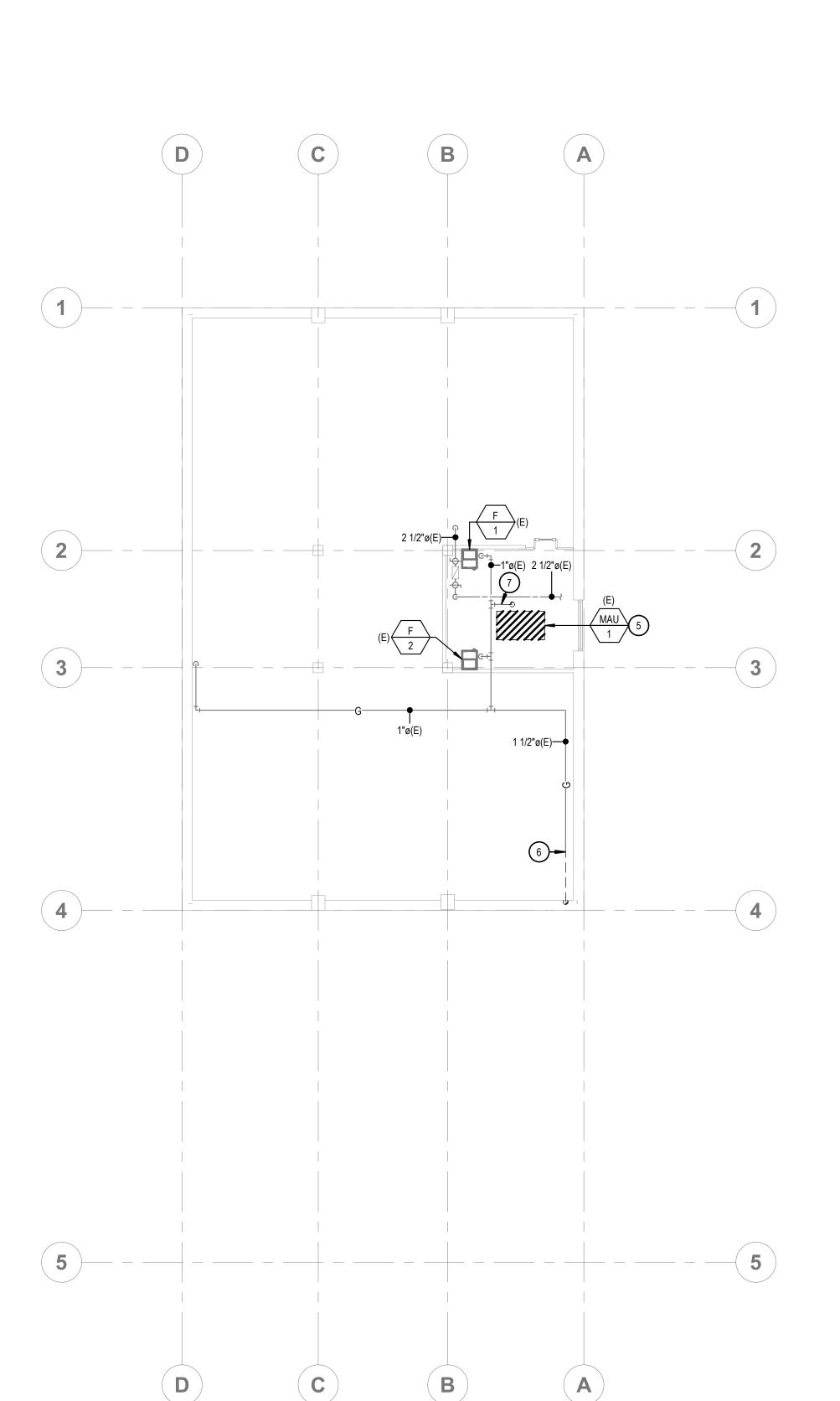
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SHEET TITLE

DETAILS

SHEET





2PLUMBING DEMOLITION FLOOR PLAN - LEVEL 2

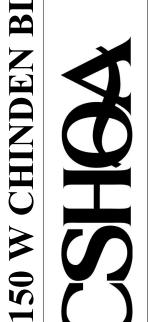


KEYED NOTES:

SYMBOL USED FOR CALLOUT

- DISCONNECT AND REMOVE EXISTING GAS LINE AT INDICATED LOCATION. SEE NEW WORK FOR CONTINUATION.
- 2. DISCONNECT AND REMOVE EXISTING GAS METER AND PIPING BACK TO INDICATED POINTS.
- 3. REMOVE UNDERGROUND GAS PIPING BACK TO INDICATED LOCATION. SEE NEW WORK FOR CONTINUATION.
- 4. EXISTING WATER HEATER AND GAS CONNECTION TO REMAIN.
- 5. DISCONNECT AND REMOVE GAS CONNECTION TO DEMOLISHED MAKEUP AIR UNIT.
- 6. DISCONNECT AND REMOVE EXISTING GAS LINE AT INDICATED LOCATION IN CEILING SPACE. SEE NEW WORK FOR CONTINUATION.
- DISCONNECT AND REMOVE EXISTING GAS LINE BACK TO CEILING AND CAP.



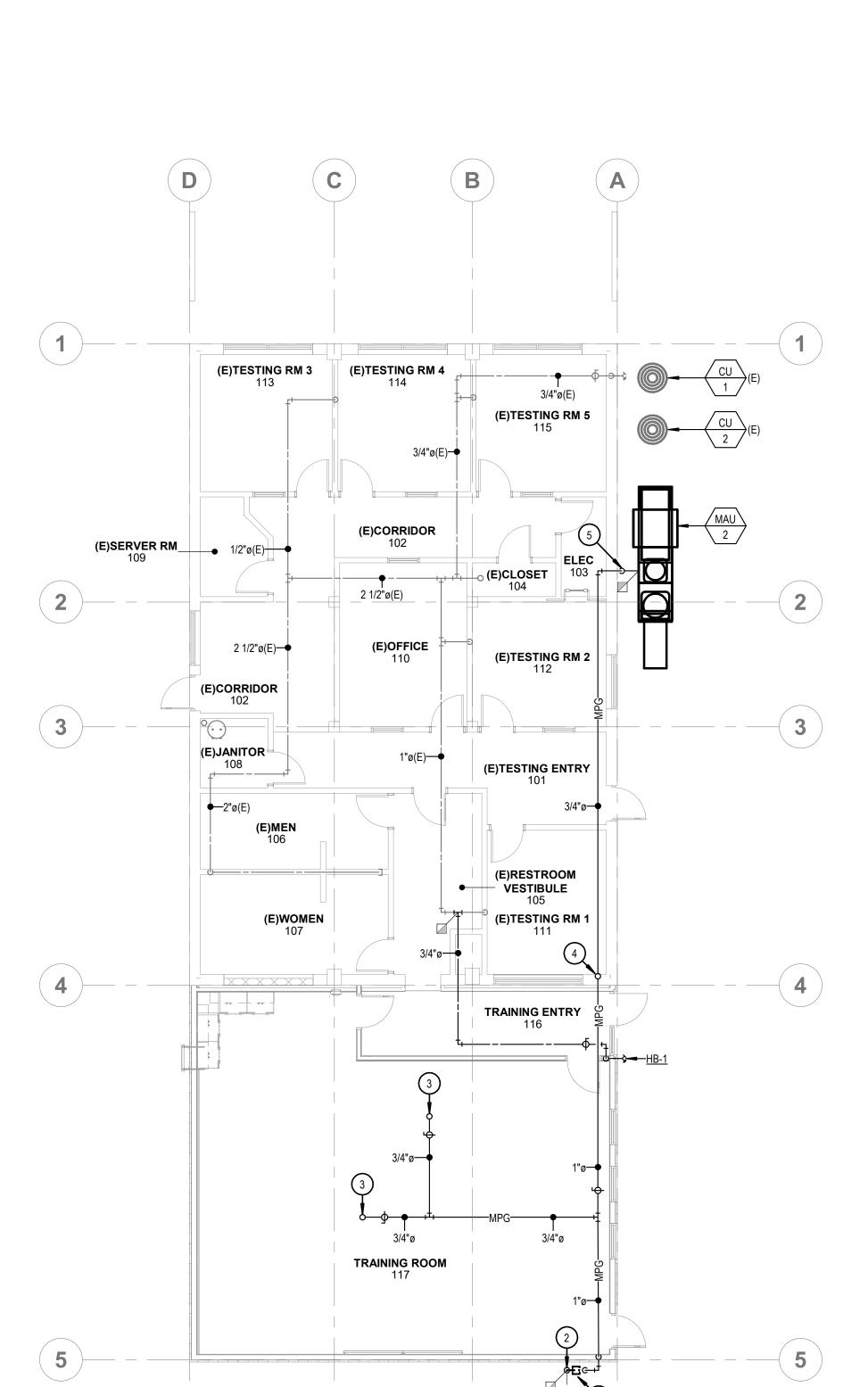


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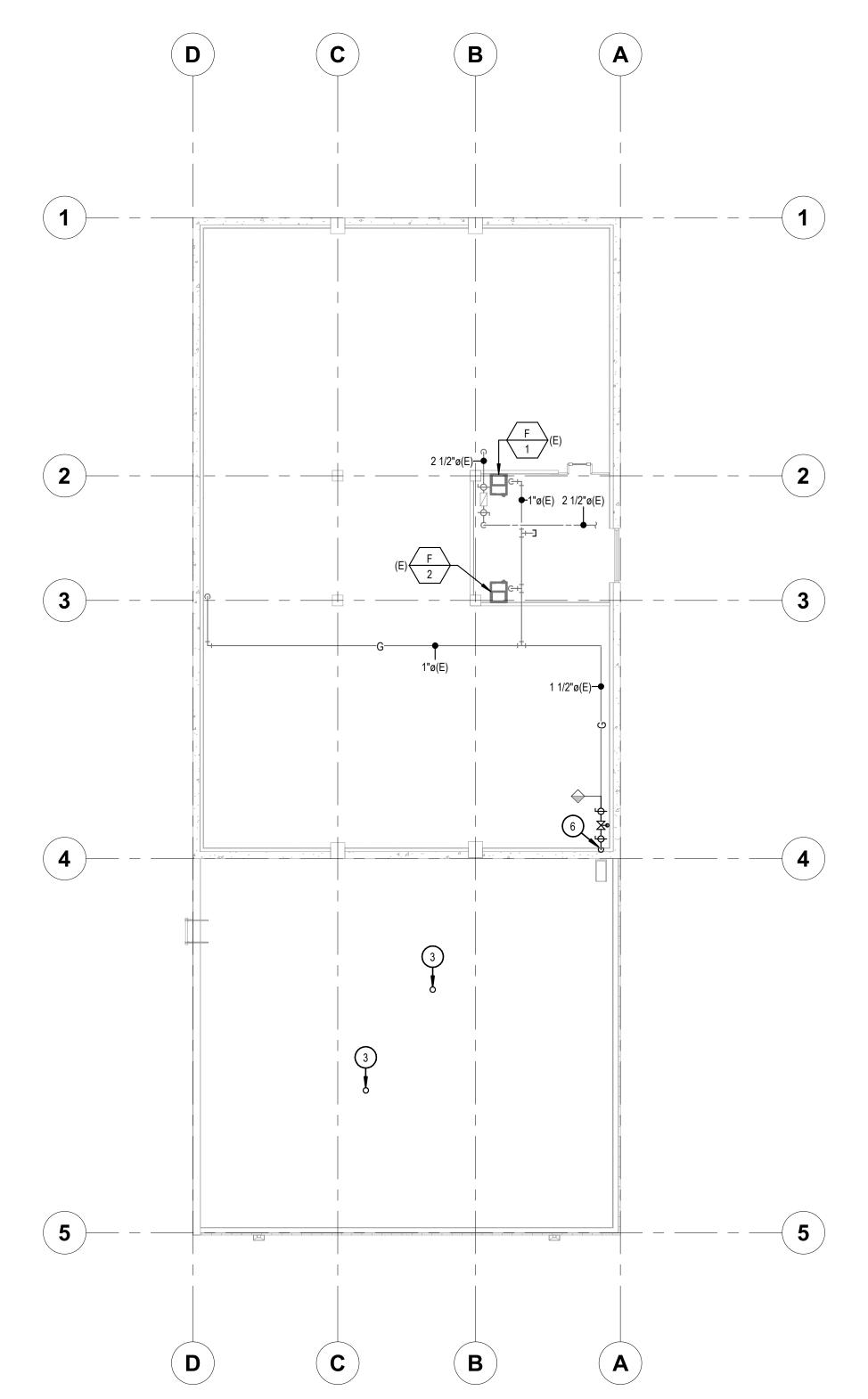
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PLUMBING DEMOLITION FLOOR
PLANS



1 PLUMBING NEW WORK FLOOR PLAN - LEVEL 1



2PLUMBING NEW WORK FLOOR PLAN - LEVEL 2

1/8" = 1'-0"



KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

METER FURNISHED AND INSTALLED BY INTERMOUNTAIN GAS COMPANY. PROVIDE A SLEEVE AND SEALANT AROUND GAS PIPE PENETRATION THROUGH EXTERIOR WALL. PAINT ALL GAS PIPING OUTSIDE THE BUILDING GREY PER THE SPECIFICATIONS. (CAPACITY = 860 MBH, DELIVERY PRESSURE AT 2-PSI)

3. ROUTE NEW 3/4" MPG LINE UP TO ROOF. SEE ROOF PLAN FOR CONTINUATION.

5. ROUND 3/4" MPG LINE DOWN EXTERIOR WALL AND CONNECT TO EXISTING MAKEUP AIR UNIT. PROVIDE A SLEEVE AND SEALANT AROUND GAS PIPE PENETRATION THROUGH EXTERIOR WALL. W.C.) PER DETAILS.

CONTINUATION. CONNECT TO EXISTING 1-1/2" LOW PRESSURE GAS LINE WITH NEW 2-PSI TO 7" W.C. REGULATOR.

1. EXISTING GAS SERVICE TO BE EXTENDED TO NEW METER. GAS

2. EXTEND EXISTING UNDERGROUND GAS LINE TO NEW METER.

4. ROUTE NEW 1" MPG LINE UP TO CEILING. SEE LEVEL 2 FOR CONTINUATION.

PROVIDE WITH MANUAL SHUTOFF AND GAS REGULATOR (2-PSI TO 7"

ROUTE NEW 1" MPG LINE UP FROM BELOW. SEE LEVEL 1 PLAN FOR

PERMIT SET

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PLUMBING NEW WORK FLOOR PLANS

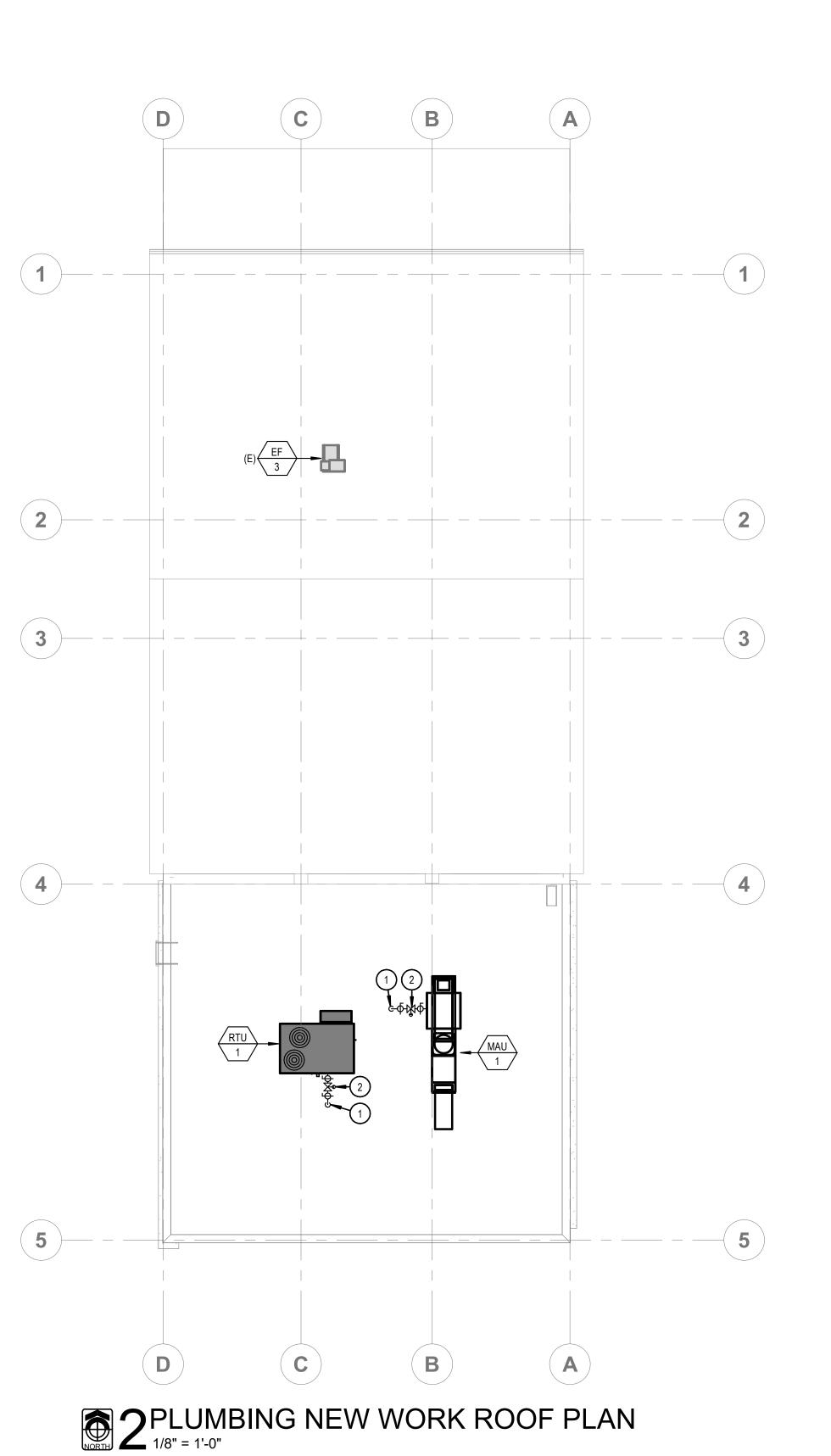


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KEYED NOTES:

SYMBOL USED FOR CALLOUT

- 3/4" MPG LINE UP FROM BELOW. SEE LEVEL 1 PLAN FOR CONTINUATION.
- 2. GAS PRESSURE REGULATOR (2-PSI TO 7" W.C.). INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. SEE GAS PRESSURE REGULATOR DETAIL FOR ADDITIONAL REQUIREMENTS.



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PLUMBING NEW WORK ROOF PLAN

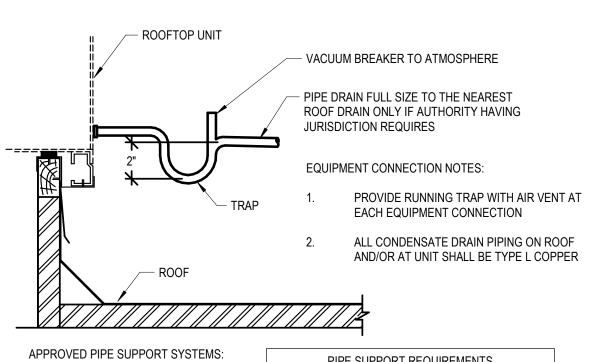
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PLUMBING FIXTURE SCHEDULE								
SYMBOL	FIXTURE DESCRIPTION	CONNECTION SIZE				I	MANUFACTURER / MODEL NUMBER / DESCRIPTION / ADDITIONAL COMMENTS	
		WASTE	VENT	TRAP	CW	HW		
<u>HB-1</u>	HOSE BIBB (EXTERIOR) (NON-FREEZE)			-	3/4		WOODFORD MODEL 67 - EXPOSED STYLE WITH MODEL 50HA BACKFLOW PREVENTER, 3/4" INLET, AND CHROME PLATED. PROVIDE WITH TEE KEY AND INSTALL AT 18" ABOVE FINISH GRADE.	
NOTES:								

1. SEE SPECIFICATIONS FOR ALTERNATE APPROVED MANUFACTURERS.



		•		
APPROVED PIPE SUPPORT SYSTEMS:		PIPE SUPPORT REQUIREMENTS		
•	MIRO MODEL 1.5 WITH SPACERS	SIZE OF PIPE	SUPPORT REQUIRED	
•	ADVACNED SUPPORT PRODUCTS VERSABLOCK BY FREEDOM INC.	1/2"	6' O.C.	
		3/4" - 1"	8' O.C.	
		1-1/4" OR LARGER	10' O.C.	

SEE PLAN FOR CONTINUATION AND SIZE — MANUAL MAIN SHUT-OFF VALVE -GAS EQUIPMENT - Ground Joint Union TRANSITION TO UNIT 18" MAXIMUM FLEXIBLE GAS CONNECTOR -

2 GAS EQUIPMENT CONNECTION DETAIL NTS

VENTING NOTES:

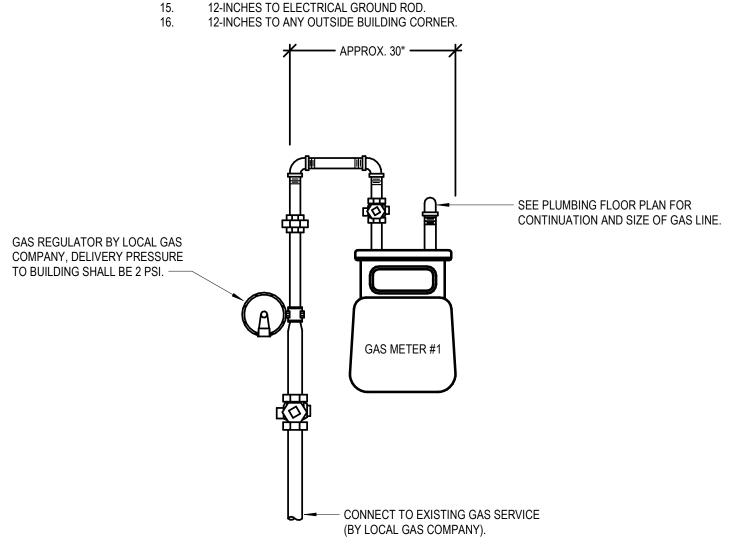
GAS SIZING CHART							
SYMBOL	INPUT (MBH)	RUNOUT SIZE (2-PSI) (INCHES)	EQUIPMENT CONNECTION SIZES (7" WC) (INCHES)				
WH-1 (EXISTING)	120		1"				
F-1 (EXISTING)	100		1"				
F-2 (EXISTING)	60		1"				
MAU-1 (NEW)	106.5	3/4"	3/4"				
MAU-2 (EXISTING)	315	3/4"	1-1/4"				
RTU-1 (NEW)	158.4	3/4"	3/4"				
TOTAL	859.4	EQUIVALENT LENGTH = 100 FT PRESSURE = 2 PSI MAIN SIZE = 1"Ø					

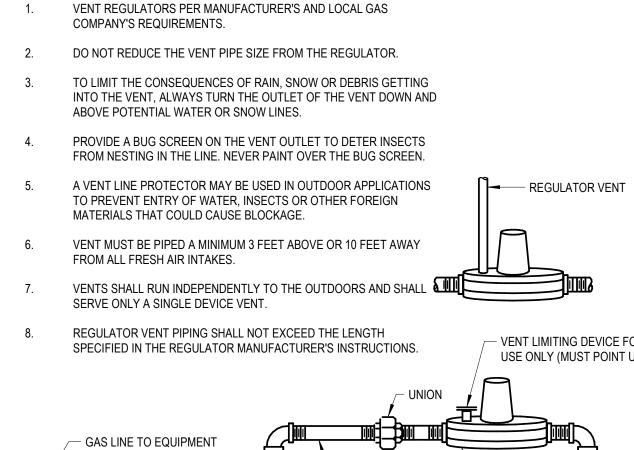
NOTE: GAS SIZES TO EQUIPMENT ARE AS NOTED IN SCHEDULE ABOVE. ROUTE NOTED (2-PSI) GAS LINE TO GAS EQUIPMENT. PROVIDE GAS COCK AND PRESSURE REGULATOR (2-PSI TO 7" WC) SIZED FOR GAS LOAD AT EACH PIECE OF EQUIPMENT. VENT TO ATMOSPHERE PER MANUFACTURERS RECOMMENDATIONS. ROUTE NOTED (7" WC) GAS LINE TO GAS FIRED EQUIPMENT WITH GAS COCK AND FLEX CONNECTOR AT UNIT. SEE GAS CONNECTION DETAILS.

1 CONDENSATE DRAIN DETAIL - ROOFTOP UNIT NTS

MINIMUM CLEARANCE DISTANCE TO GAS METER OR REGULATOR VENT:

- 1. 10-FEET TO WINDOW MOUNTED WALL FAN. 10-FEET TO WINDOW OR WALL MOUNTED AIR CONDITIONER.
- 10-FEET TO MECHANICAL SYSTEM INTAKE. 3-FEET TO HEATING APPLIANCE AIR INTAKE OR EXHAUST OPENING. 3-FEET TO CLOTHES DRYER INTAKE OR EXHAUST VENT OPENING.
- 3-FEET TO BATHROOM FAN VENT OPENING. 3-FEET CLEAR IN FRONT OF METER.
- 3-FEET TO ELECTRICAL GENERATOR OR ELECTRICAL TRANSFORMER. 3-FEET TO ELECTRICAL METERS, ELECTRICAL PANELS AND OTHER SOURCES OF IGNITION.
- 3-FEET TO AIR CONDITIONER OR HEAT PUMP (PAD MOUNTED). 3-FEET TO OPEN FLAME BARBEQUE OR OTHER OPEN FLAME DEVICE.
- 2-FEET TO TELEPHONE, CABLE OR OTHER COMMUNICATIONS CONNECTION BOX OR TERMINAL. 2-FEET TO WATER SPIGOT (HOSE BIBB).
- 2-FEET ON EITHER SIDE OF METER TO LANDSCAPE FEATURES LIKE SHRUBS OR FENCES.





 VENT LIMITING DEVICE FOR INDOOR USE ONLY (MUST POINT UP) - GAS COCK (TYP.) (GAS PRESSURE IS 7" WC) - MINIMUM 10 PIPE ─ GAS PRESSURE DIAMETERS BEFORE REGULATOR CHANGING DIRECTIONS MAIN GAS LINE (SEE DRAWINGS FOR GAS CAPPED TEE POSITIONED TO ALLOW PRESSURE) -CAPPED 3-INCH DRIP LEG POSITIONED TO ALLOW THE CONNECTION OF A THE CONNECTION OF A PRESSURE MEASURING INSTRUMENT -PRESSURE MEASURING INSTRUMENT —

PROJECT 04-11-24 DRAWN CHECKED CD

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SHEET TITLE

REVISED

PLUMBING DETAILS AND SCHEDULE

SHEET

	MECHANICAL A	ABBRE	VIATIONS		
			VII (1101.10		
1 /O A O	ALD COMPLETIONING	100	I/II ONLATT		
	AIR CONDITIONING	KW	KILOWATT		
	ABOVE FINISHED FLOOR	KWH	KILOWATT HOUR		
	AIR HANDLING UNIT AMERICAN SOCIETY OF HEATING, REFRIGERATION, AND				
	AMERICAN SOCIETY OF HEATING, REFRIGERATION, AND AIR CONDITIONING ENGINEERS	LAT	LEAVING AIR TEMPERATURE		
		LAV	LAVATORY		
	BRITISH THERMAL UNITS	LEED	LEADERSHIP IN ENERGY AND ENVIRONMENTAL DESIGN		
BTUH	BTUS PER HOUR	LWT	LEAVING WATER TEMPERATURE		
24	COMPUTED LAID	144)/	1.1.1.20.00.00		
	COMBUSTION AIR	MAX	MAXIMUM MAXIMUM CIPCLUT AMPC		
	COOLING COIL	MCA	MINIMUM CIRCUIT AMPS		
	AIR FLOW RATE (CUBIC FEET PER MINUTE)	MOCP	MAXIMUM OVERCURRENT PROTECTION		
	CHILLED WATER RETURN	MIN	MINIMUM		
	CHILLED WATER SUPPLY	110	NOISE OBITEDIA		
	CEILING	NC	NOISE CRITERIA		
CW	COLD WATER	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION		
250 0		NTS	NOT TO SCALE		
	DEGREE	204			
	DIAMETER	OSA	OUTSIDE AIR		
DB	DRY BULB	20			
	EVALUATION AID	PD	PRESSURE DROP		
	EXHAUST AIR		PHASE		
	ENTERING AIR TEMPERATURE	PRV	PRESSURE REDUCING VALVE		
	ENERGY EFFICIENCY RATIO				
	EXTERNAL STATIC PRESSURE	RA	RETURN AIR		
EWT	ENTERING WATER TEMPERATURE	RPM	REVOLUTIONS PER MINUTE		
500	ELOOP OF EANIOUT	RTU	ROOFTOP UNIT		
	FLOOR CLEANOUT	24	OURRE VAIR		
	FIRE DAMPER	SA	SUPPLY AIR		
	FULL LOAD AMPS	SEER	SEASONAL ENERGY EFFICIENCY RATIO		
	FLOOR	SFD	COMBINATION SMOKE/FIRE DAMPER		
	FEET PER MINUTE	SP	STATIC PRESSURE		
FT	FEET	SYM	SYMBOL		
	0.1105	- a D	TEMPERATURE AND RECOURE		
	GAUGE	T&P	TEMPERATURE AND PRESSURE		
	GRADE CLEANOUT	TEMP	TEMPERATURE		
GPM	WATER FLOW RATE (GALLONS PER MINUTE)	TYP	TYPICAL		
110	UEATING COIL	11040	THEODA MECHANICAL CODE		
	HEATING COIL	UMC	UNIFORM MECHANICAL CODE		
	HORSE POWER	UPC	UNIFORM PLUMBING CODE		
	HEATING, VENTILATING, AIR CONDITIONING	URL	URINAL		
	HOT WATER RETURN	, (TD	VIEWE EUROUGU BOOK		
	HOT WATER RETURN	VTR	VENT THROUGH ROOF		
HWS	HOT WATER SUPPLY	V	VOLTS		
100	WITES VATIONAL BUILDING CODE	14//	NA DITECT		
	INTERNATIONAL BUILDING CODE	W/	WITH		
	INTERNATIONAL ENERGY CONSERVATION CODE	WB	WET-BULB		
	INTERNATIONAL FIRE CODE	WC	WATER CLOSET		
	INTERNATIONAL FUEL GAS CODE	WCO	WALL CLEANOUT		
IMC	INTERNATIONAL MECHANICAL CODE	WH	WATER HEATER		
IPC	INTERNATIONAL PLUMBING CODE	1			
NOTE:	THIS IS A STANDARD LIST OF COMMONLY USED MECHANICAL	L ABBREVIA	TIONS. SOME OF THE ABBREVIATIONS SHOWN ABOVE		
NOTE.	MAY NOT BE USED IN THIS DRAWING PACKAGE.				

IMC	INTERNATIONAL MECHANICAL CODE WH WATER HEATER
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 PLUMBING EQUIPMENT AND SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST ADOPTED PLUMBING CODE, AND ALL LOCAL AND STATE CODES.
3.	ALL MECHANICAL AND PLUMBING EQUIPMENT SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS.
4.	MECHANICAL CONTRACTORS SHALL RECEIVE PRIOR APPROVAL FROM THE STRUCTURAL ENGINEER BEFORE MAKING CUTS THROUGH ANY STRUCTURAL MEMBER.
5.	MECHANICAL CONTRACTORS SHALL COORDINATE INSTALLATION WITH CONSTRUCTION SUPERVISOR AND WITH ALL OTHER TRADES TO AVOID CONFLICTS.
6.	THE MECHANICAL CONTRACTORS SHALL VERIFY MOTOR VOLTAGES WITH THE ELECTRICAL DRAWINGS PRIOR TO ORDERING MOTORIZED EQUIPMENT AND CONTROLS.
7.	SEE MECHANICAL SCHEDULE SHEET FOR SCHEDULED CAPACITIES OF ALL MECHANICAL EQUIPMENT AND MATERIALS SPECIFIED.
8.	DOMESTIC WATER SERVICE IS PROVIDED WITH AN APPROVED BACKFLOW PREVENTER ASSEMBLY.
9.	THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR ALL BACKFLOW DEVICES TO INSPECTED BY A CERTIFIED BACKFLOW TECHNICIAN BEFORE THE USE OF THE BUILDING POTABLE WATER SYSTEM.
10.	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.
11.	RUNOUT AND HOOKUP SIZES TO INDIVIDUAL PLUMBING FIXTURES CAN BE FOUND ON THE PLUMBING FIXTURE SCHEDULE.
12.	PROVIDE REMOTE CEILING ACCESS BALANCE DAMPERS WITH CONCEALED CHROME PLATE COVERS FOR BALANCE DAMPERS LOCATED ABOVE HARD CEILINGS.
13.	PAINT VTR'S, FLUES, EXHAUST CAPS, AND OTHER MECHANICAL ITEMS ON THE ROOF TO MATCH THE ROOF COLOR.
14.	INSULATED FLEXIBLE DUCTWORKIN LENGTHS OF 6'-0" OR LESSMAY BE USED FOR RUNOUTS TO AIR TERMINALS.
15.	MAINTAIN MINIMUM 10'-0" DISTANCE BETWEEN ALL FRESH AIR INTAKES AND EXHAUST OR GAS FLUE DISCHARGES.
16.	LOCATE ACCESS HATCHCES 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.
17.	WHENEVER THERE IS A DISCREPANCY BETWEEN THE RUNOUT PIPE OR DUCT SIZE SHOWN ON THE PLANS AND THAT SHOWN IN THE SCHEDULE, ALWAYS USE THE LARGER OF THE TWO PIPE OR DUCT SIZES.
18.	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.
19.	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.
20.	ALL DOMESTIC HOT AND COLD WATER LINES IN THE AREA OF WORK WHICH ARE NO LONGER IN USE DUE TO THIS PROJECT SHALL

HOLES IN EXISTING WALLS OR FLOORS SHALL BE PATCHED TO MATCH EXISTING WHERE PIPING, DUCTWORK, ETC, WERE

DAMAGE TO THE EXISTING FACILITY DURING THE CONSTRUCTION OF THIS PROJECT SHALL BE REPAIRED OR REPLACED BY THE

BE REMOVED BACK TO THE MAINS AND CAPPED. NO DEAD LEGS ALLOWED.

REMOVED OR ADDED DURING THIS PROJECT.

CONTRACTOR AT NO COST THE OWNER.

MECHANICAL AND PLUMBING DRAWINGS LEGEND						
	FLEXIBLE DUCTWORK	8	THREE WAY CONTROL VALVE			
<i></i>	DUCTWORK	R	TWO WAY CONTROL VALVE			
3 3	DUCTWORK BREAK	⋈	PRESSURE REDUCING VALVE			
()	DUCTWORK OR PIPING RISE	×	GATE VALVE			
	CONCENTRIC SQUARE TO ROUND	N	REDUCER			
M—-—	TRANSITION MOTORIZED DAMPER	×	GLOBE VALVE			
	MANUAL VOLUME DAMPER	φ b	BALL VALVE			
	SPIN-IN FITTING W/ AIR EXTRACTOR	# 1	BUTTERFLY VALVE			
AIRFLOW	AND HAND DAMPER	1Ť1 [L_H	DOTTERN ET VALVE			
AIRFLOW —	HIGH EFFICIENCY FITTING W/ HAND DAMPER		BALANCE VALVE			
\$	SWITCH	N ₩	CHECK VALVE			
0	THERMOSTAT	FCO FCO	FLOOR CLEANOUT			
Θ	HUMIDISTAT	∫ wco	WALL CLEANOUT			
<u> </u>	TEMPERATURE SENSOR	S GCO	GRADE CLEANOUT			
609	CARBON DIOXIDE SENSOR	7	WATER HAMMER ARRESTOR			
©	CARBON MONOXIDE SENSOR	<i>-</i>	FLOOR DRAIN			
NO -	NITROUS OXIDE SENSOR		FLOOR SINK			
© (SD)	DUCT SMOKE DETECTOR	₹	GAS PRESSURE REGULATOR W/ GAS COCK			
4	COMBINATION SMOKE/FIRE DAMPER	₽	PRESSURE RELIEF VALVE			
√	FIRE DAMPER	11.0	VENT-THROUGH-ROOF			
√	SMOKE DAMPER	5	VENT			
#	EQUIPMENT CALLOUT	5	SOIL, WASTE, OR SANITARY SEWER			
ررر	TURNING VANES	S ——AW—— S	ACID WASTE LINE			
- -∕-	INTAKE OR EXHAUST	5AV	ACID VENT LINE			
	DIRECTION OF AIRFLOW	\$\$	STORM DRAIN			
D-X CFM X"Ø	SUPPLY DIFFUSER	├ ── RD ──	ROOF DRAIN LINE			
R-X X''Ø	RETURN GRILLE	∫ OD 	OVERFLOW DRAIN LINE			
R-X CFM X''Ø	EXHAUST GRILLE	∫ CD 	CONDENSATE DRAIN LINE			
G-X CFM X"Ø	FLOOR GRILLE	<i>>></i>	DOMESTIC COLD WATER (CW)			
∞	CEILING EXHAUST FAN	5	DOMESTIC HOT WATER (HW)			
<u> </u>	TEMPERATURE GAUGE	S	DOMESTIC HOT WATER RETURN (HWR)			
<u> </u>	PRESSURE GAUGE (LIQUID FILLED W/ ISOLATION VALVE)	5 —	TEMPERED WATER (TW)			
	TEMPERATURE SENSOR (DUCT OR PIPING)	S MPG —— S	MEDIUM PRESSURE NATURAL GAS			
F9 	FLOW SWITCH	} ——G—— 	LOW PRESSURE NATURAL GAS			
	STAINLESS STEEL BRAIDED FLEX CONNECTION	├ F ──	FIRE SPRINKLER LINE			
	ELASTOMETRIC FLEX CONNECTOR	∫ GWS ∫	GEOTHERMAL WATER SUPPLY			
	SUCTION DIFFUSER	∫ GWR ∫	GEOTHERMAL WATER RETURN			
₩ ₩	Y TYPE STRAINER (1-1/2" OR LARGER PROVIDED W/ BLOW DOWN VALVE)	S — cws—— S	CHILLED WATER SUPPLY			
	FLOW DIRECTION	S CWR S	CHILLED WATER RETURN			
	DEMOLITION / EQUIPMENT TO BE REMOVED	}	CONDENSER WATER SUPPLY			
	NEW TO EXISTING CONNECTION POINT		CONDENSER WATER RETURN			
(E)	EXISTING FUTURE	S—HWS——S	HEATING WATER SUPPLY HEATING WATER RETURN			
(F) (N)	NEW	L	LIQUID REFRIGERANT LINE			
	REDUCED PRESSURE	s — s	SUCTION REFRIGERANT LINE			
	BACKFLOW PREVENTER DOUBLE CHECK BACKFLOW PREVENTER	<u></u>	SLOPE PIPE IN DIRECTION OF ARROW			
8	UNION	<i>y</i>	PIPE ANCHOR			
中	AIR VENT	<u> </u>	PIPE GUIDE			
Ä 🔏	TRIPLE DUTY VALVE	-	CAP			
NOTE:	THIS IS A LIST OF COMMONLY USED MECHAN MAY NOT BE USED IN THIS DRAWING PACKAC		LS. SOME OF THE SYMBOLS SHOWN ABOVE			
WAT NOT BE COLD IN THIS BIGAVING FACIAGE.						

ENERGY CODE COMPLIANCE

- 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.
- MINIMUM REQUIREMENTS FOR SUPPLY AND RETURN DUCTWORK INSULATION:
 - R-6: DUCTS LOCATED IN UNCONDITIONED SPACES (SPACE NEITHER HEATED NOR COOLED SUCH AS ABOVE CEILING SPACES, WALL SPACES, DUCT CHASES, SOFFITS, ATTOCS, CRAWL SPACES, UNHEATED BASEMENTS, AND UNHEATED GARAGES).
- R-12: DUCTS LOCATED OUTSIDE OF THE BUILDINGS INSULATION ENVELOPE (SUCH AS ABOVE THE ATTIC INSULATION).
- CONTRACTOR SHALL VERIFY WITH THE MANUFACTURER, THE R-VALUES OF THE ACTUAL INSULATION USED. R-VALUES SHALL BE <u>INSTALLED</u> VALUES.
- 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.
- 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 BI SEALED AND MECHANICALLY FASTENED.
- MINIMUM REQUIREMENTS (THICKNESS) FOR PIPING INSULATION: REFER TO PROJECT SPECIFICATIONS.
- DOMESTIC HOT WATER PIPING SYSTEMS SHALL BE INSULATED WITH 1" INSULATION HAVING A CONDUCTIVITY NOT EXCEEDING 0.27 BTU-INCH/HOUR-FT2-°F.
- DOMESTIC WATER HEATERS WHICH ARE NOT PROVIDED WITH INTEGRAL HEAT TRAPS AND SERVE NONCIRCULATING SYSTEMS SHALL BE PROVIDED WITH HEAT TRAPS ON THE SUPPLY AND DISCHARGE PIPING AT THE WATER HEATER.
- DOMESTIC HOT WATER SYSTEMS WITH RECIRCULATION PUMPS OR ELECTRIC HEAT TRACE SHALL BE CONTROLLED WITH 7-DAY
- 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: 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.

COMCHECK COMPLIANCE



Project Information

2018 IECC Energy Code: ITD D3 Training Room Addition Project Title: Boise, Idaho Climate Zone:

Project Type: Addition

Construction Site: Owner/Agent: Designer/Contractor:

Mechanical Systems List QuantitySystem Type & Description

- 1 RTU-1 (Single Zone): Heating: 1 each - Central Furnace, Gas, Capacity = 159 kBtu/h Proposed Efficiency = 80.00% Et, Required Efficiency: 80.00 % Et or 80% AFUE Cooling: 1 each - Single Package DX Unit, Capacity = 89 kBtu/h, Air-Cooled Condenser, Air Economizer Proposed Efficiency = 11.20 EER, Required Efficiency = 11.00 EER Proposed Part Load Efficiency = 15.00 IEER, Required Part Load Efficiency = 12.60 IEER
- Fan System: FAN SYSTEM 2 -- Compliance (Brake HP and fan efficiency method) : Passes FAN 1 Supply, Constant Volume, 3000 CFM, 1.5 motor nameplate hp, 1.0 design brake hp (1.0 max. BHP), 90.0 fan efficiency grade, 90.0 total fan efficiency, 90.0 design fan efficiency , fan exception: Single fan <= 5HP Pressure Drop Credits:
 Fully ducted return and/or exhaust air systems, 0.3631 credit
- 1 MAU-1 (Single Zone):
- Heating: 1 each Central Furnace, Gas, Capacity = 106 kBtu/h Proposed Efficiency = 80.00% Et, Required Efficiency: 80.00 % Et or 80% AFUE Cooling: 1 each - Single Package DX Unit, Capacity = 28 kBtu/h, Air-Cooled Condenser, Unknown Economizer Proposed Efficiency = 14.00 SEER, Required Efficiency = 14.00 SEER

 Proposed Part Load Efficiency = 0.00, Required Part Load Efficiency = 0.00

 Fan System: FAN SYSTEM 1 -- Compliance (Motor nameplate HP and fan efficiency method): Passes
- Fans:
 FAN 2 Supply, Constant Volume, 1300 CFM, 0.8 motor nameplate hp, 90.0 fan efficiency grade, 90.0 total fan
 efficiency, 90.0 design fan efficiency , fan exception: Single fan <= 5HP
- MAU-2 (Single Zone): Heating: 1 each - Central Furnace, Gas, Capacity = 315 kBtu/h Proposed Efficiency = 80.00% Et, Required Efficiency: 80.00 % Et
- Cooling: 1 each Single Package DX Unit, Capacity = 93 kBtu/h, Air-Cooled Condenser, Air Economizer Proposed Efficiency = 14.00 EER, Required Efficiency = 11.00 EER
- Proposed Part Load Efficiency = 13.00 IEER, Required Part Load Efficiency = 12.60 IEER Fan System: FAN SYSTEM 1 -- Compliance (Motor nameplate HP and fan efficiency method) : Passes
- FAN 2 Supply, Constant Volume, 1300 CFM, 0.8 motor nameplate hp, 90.0 fan efficiency grade, 90.0 total fan efficiency, 90.0 design fan efficiency , fan exception: Single fan <= 5HP

Mechanical Compliance Statement

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

Chris Dyke, PE 4/3/2024

Project Title: ITD D3 Training Room Addition Data filename:

Report date: 04/03/24 Page 4 of 13



MUSGROVE ENGINEERING, P.A. 234 S. Whisperwood Way Boise, ID 83709 208.384.0585 645 West 25th Street Idaho Falls, ID 83402 208.523.2862 Project No. 24-078



PERMIT SET

PROJECT 24009 04-11-24 DRAWN CHECKED CD

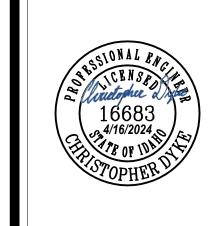
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SHEET TITLE

MECHANICAL COVER

SHEET





AD STREET

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(08-343-4635 • FAX: 208-343-1858

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OF THE ARCHITECT! ENGINEER WHETHER

CT FOR WHICH THEY ARE MADE IS EXECUTED

FIESE DRAWINGS AND SPECIFICATIONS SHALL

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200 BROAD STRE BOISE, ID 837 343-4635 • FAX (208) 343-18 http://www.cshqa.co

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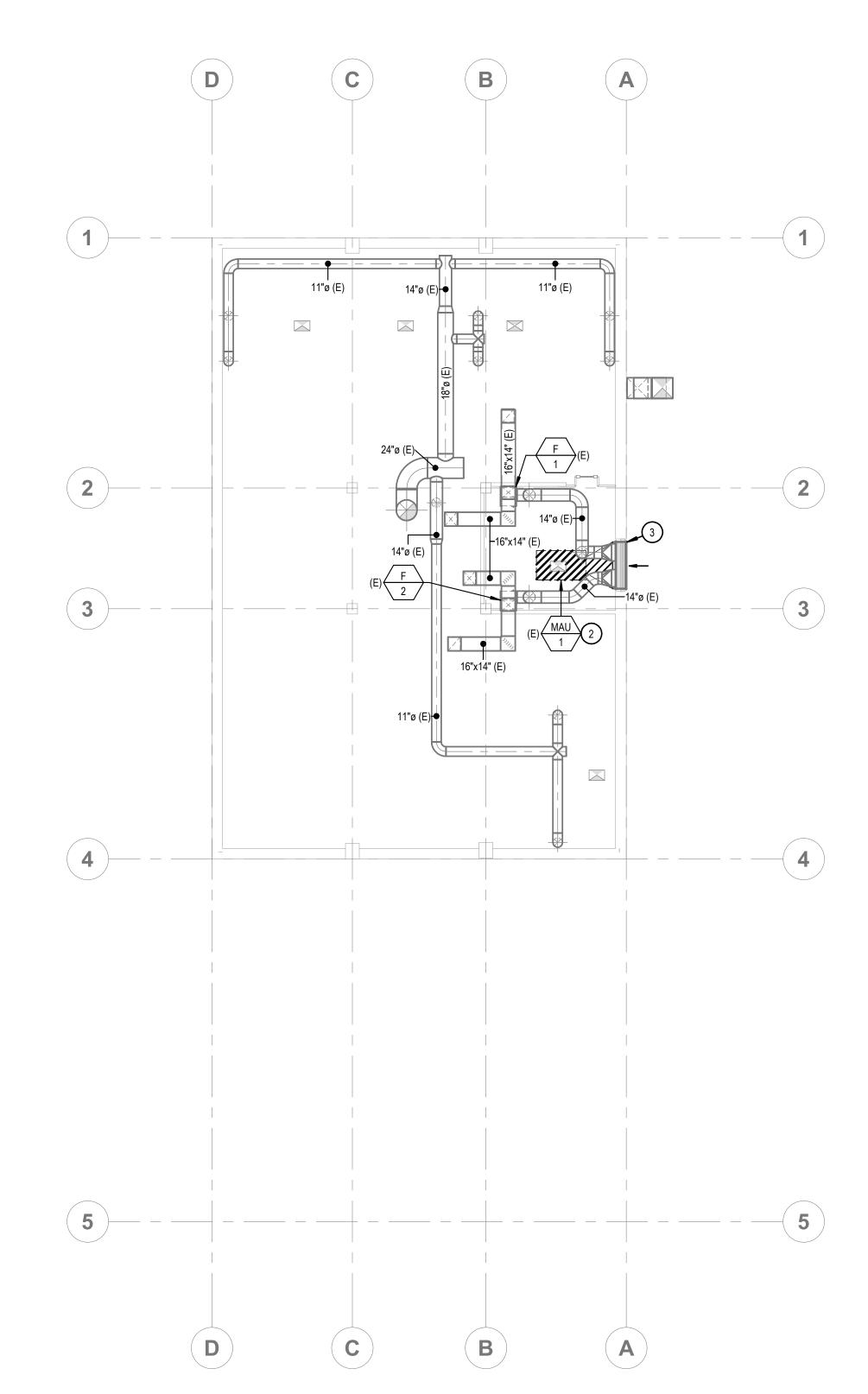
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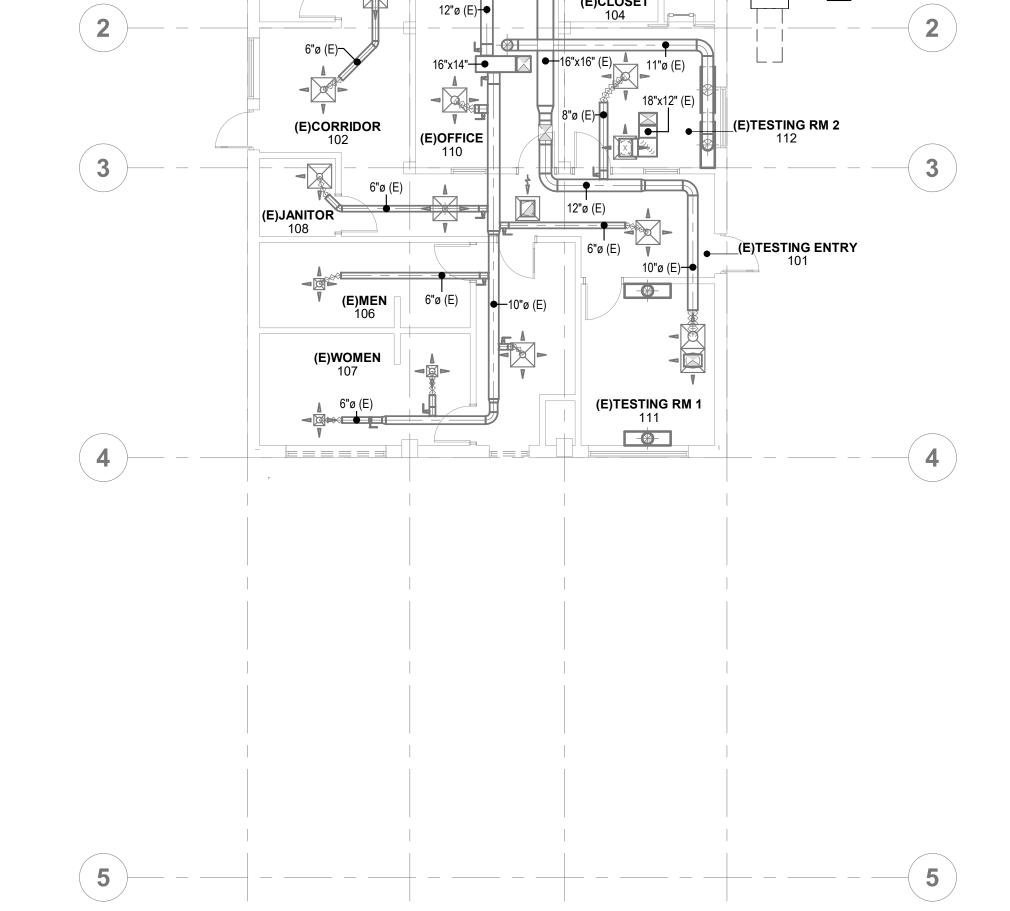
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MECHANICAL DEMOLITION FLOOR PLANS

ORIGINAL SHEET SIZE 24" x 36"





(E)TESTING RM 3

(E)SERVER RM_ 109 (E)TESTING RM 4

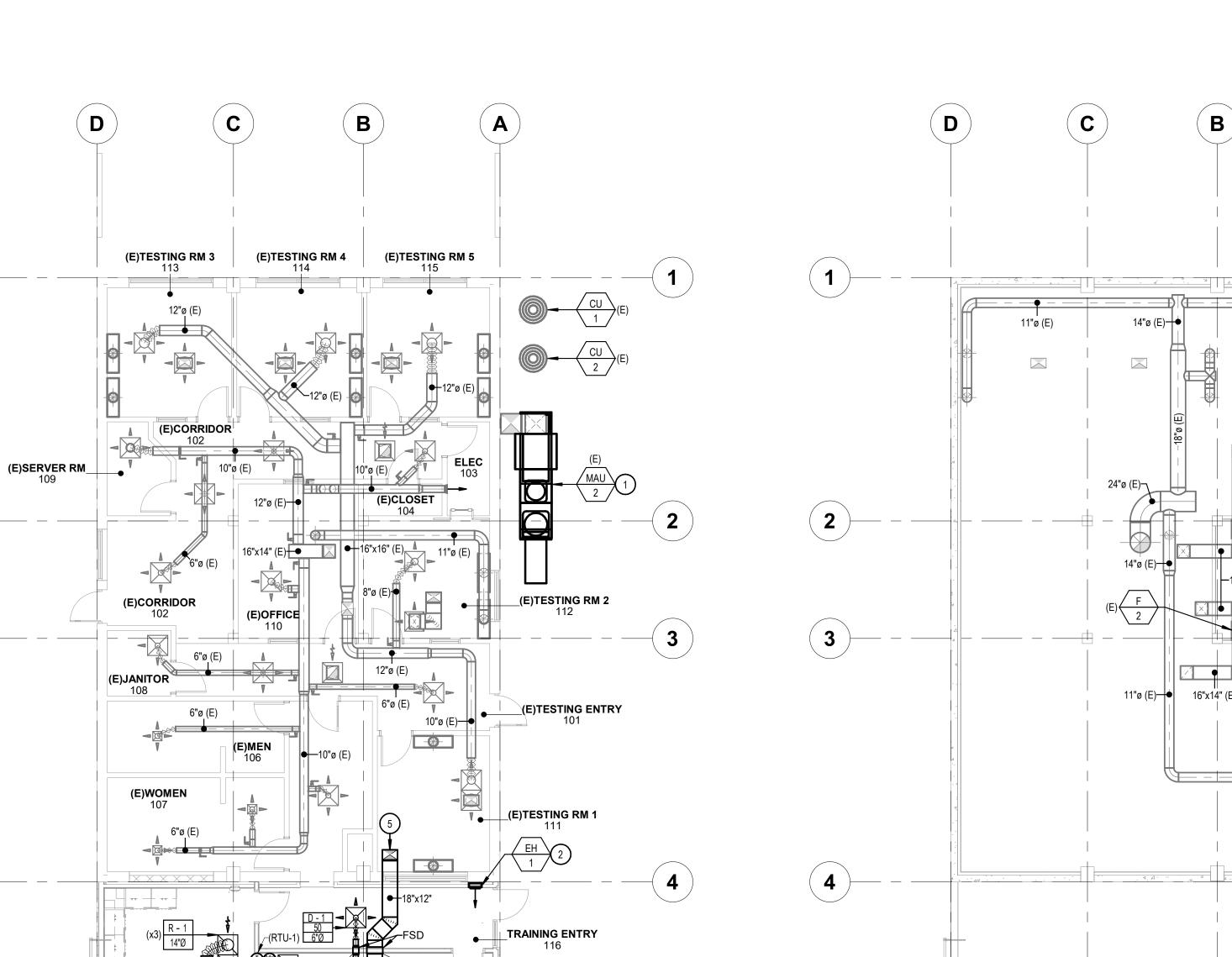
(E)TESTING RM 5

1 MECHANICAL DEMOLITION FLOOR PLAN - LEVEL 1

EL 1

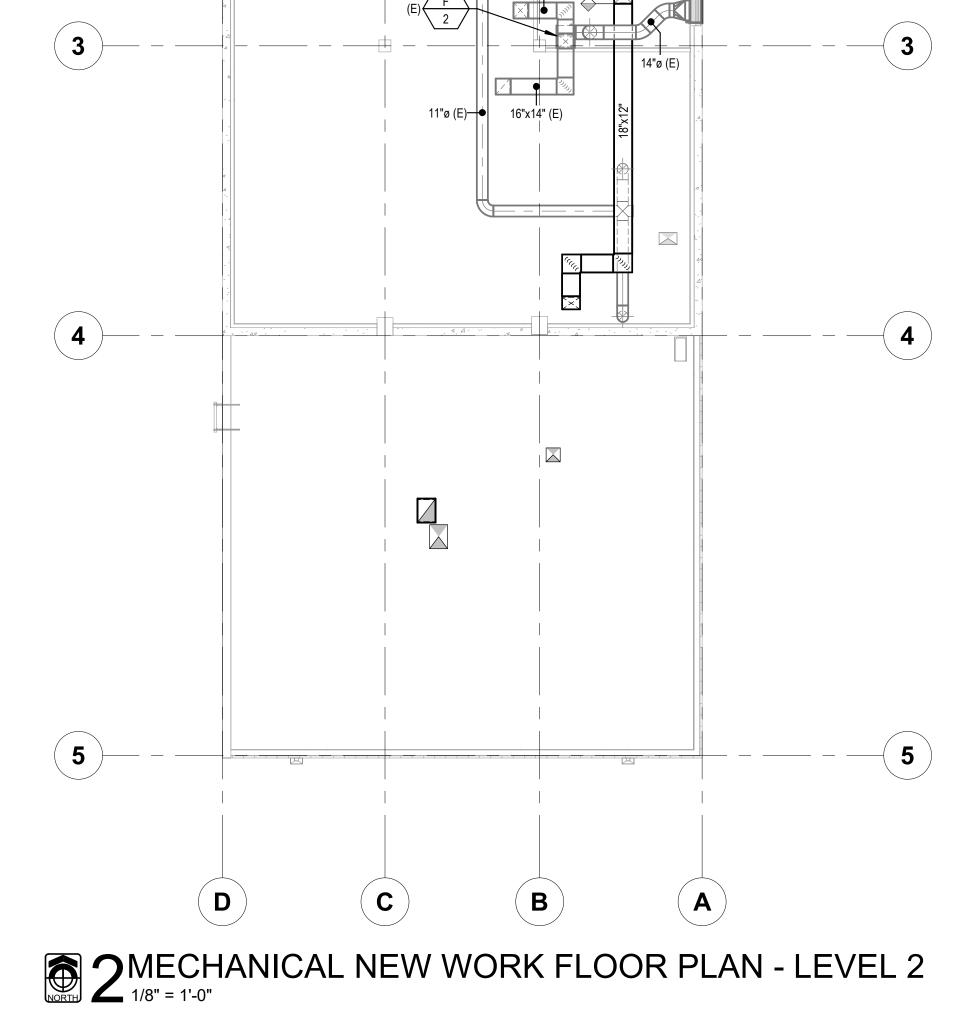
2 MECHANICAL DEMOLITION FLOOR PLAN - LEVEL 2

- EXISTING MAKEUP AIR UNIT SHALL BE RETROFITTED WITH A COOLING COIL. SEE NEW PLANS FOR WORK REQUIRED.
- 2. DISCONNECT AND REMOVE EXISTING MAKEUP AIR UNIT. EXISTING DUCTWORK THROUGH FLOOR TO REMAIN. SEE NEW WORK FOR CONTINUATION.
- 3. DISCONNECT AND REMOVE DUCTWORK ASSOCIATED WITH LOWER LOUVER. SEE NEW WORK FOR CONTINUATION.



1 MECHANICAL NEW WORK FLOOR PLAN - LEVEL 1

5



 (\mathbf{A})



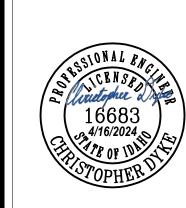
MUSGROVE ENGINEERING, P.A. 234 S. Whisperwood Way Boise, ID 83709 208.384.0585 645 West 25th Street Idaho Falls, ID 83402 208.523.2862 www.musgrovepa.com Project No. 24-078

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

RETROFIT EXISTING MAKEUP AIR UNIT WITH COOLING COIL.
CONTRACTOR SHALL MODIFYING AND EXTEND THE EXISTING
CONCRETE CURB AS REQUIRED TO ACCOMMODATE NEW COOLING

- 2. MOUNT ELECTRIC HEATER 12" A.F.F.
- 3. ROUTE SUPPLY AND RETURN DUCTS UP THROUGH ROOF CURB, TRANSITION TO UNIT, AND CONNECT WITH FLEXIBLE CONNECTORS. PROVIDE TURNING VANES IN ELBOWS AND INTERNALLY INSULATE FIRST 15'-0" FROM ROOFTOP UNIT. COORDINATE DUCT DROP LOCATIONS WITH ROOF JOIST MANUFACTURER. SEE ROOF PLAN FOR CONTINUATION.
- 4. ROUTE SUPPLY DUCTS UP THROUGH ROOF CURB, TRANSITION TO UNIT, AND CONNECT WITH FLEXIBLE CONNECTORS. PROVIDE TURNING VANES IN ELBOWS AND INTERNALLY INSULATE FIRST 15'-0" FROM ROOFTOP UNIT. SEE ROOF PLAN FOR CONTINUATION.
- 5. ROUTE SUPPLY DUCT UP. SEE LEVEL 2 PLAN FOR CONTINUATION.
- 6. INSULATE AND COVER EXISTING LOWER LOUVER THAT PREVISOULY PROVIDED FRESH AIR FOR THE MEZZANINE MOUNTED MAKEUP AIR
- 7. ROUTE DUCTWORK THROUGH CEILING JOISTS. COORDINATE JOIST LOCATIONS AND WEBBING WITH JOIST MANUFACTURER PRIOR TO INSTALLATION. (TYPICAL)





PERMIT SET

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MECHANICAL NEW WORK FLOOR PLANS

ORIGINAL SHEET SIZE 24" x 36"

2

3

4

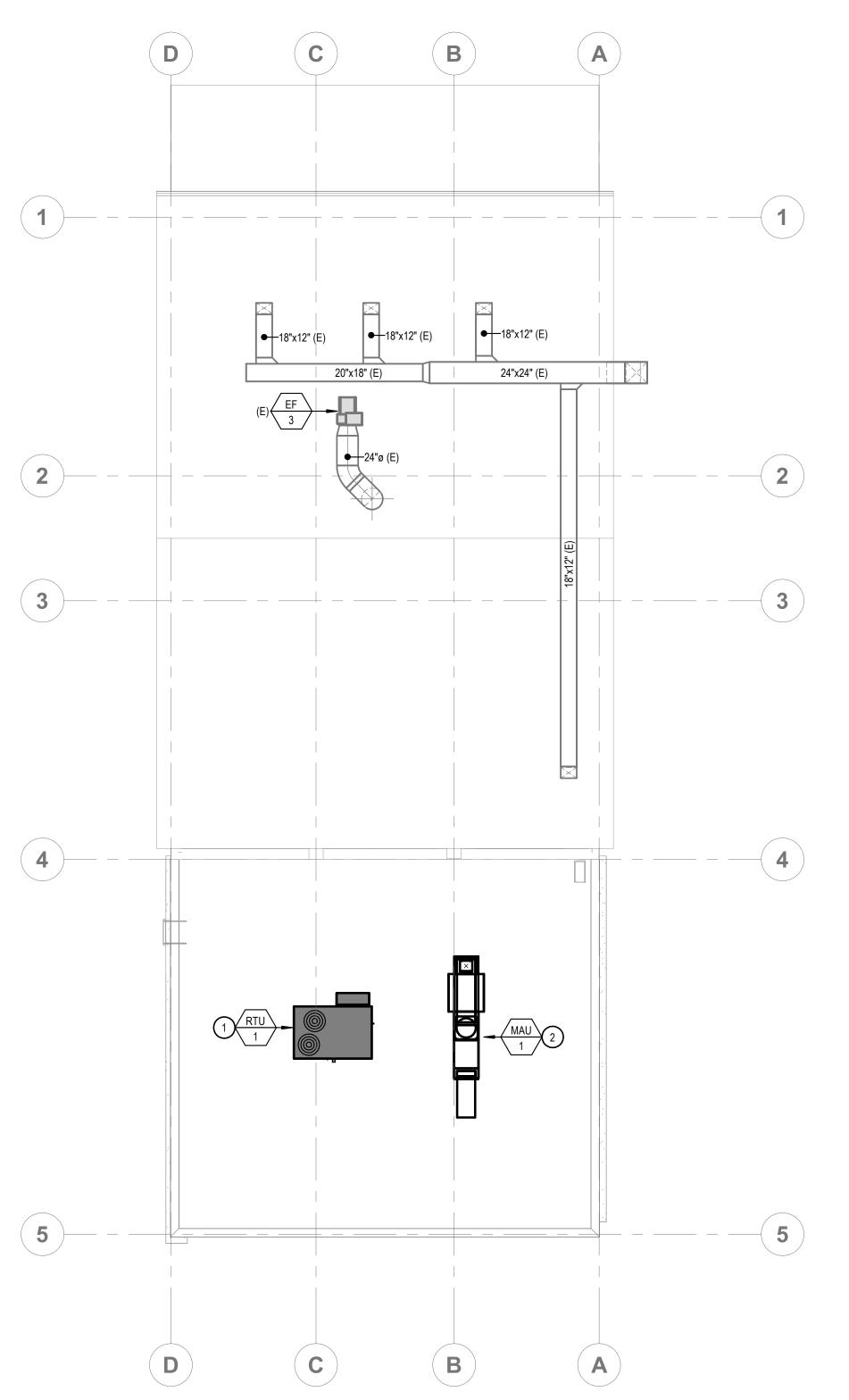
5



KEYED NOTES: # SYMBOL USED FOR CALLOUT

 NEW PACKAGED ROOFTOP UNIT. SEE CURB MOUNTED SPRING RAIL DETAIL FOR INSTALLATION REQUIREMENTS. KEEP UNIT 10'-0" FROM THE EDGE OF THE ROOF.

2. NEW MAKEUP AIR UNIT. KEEP UNIT 10'-0" FROM THE EDGE OF THE ROOF.



2 MECHANICAL NEW WORK ROOF PLAN
1/8" = 1'-0"

35 • FAX: 208-343-1858
SPECIFICATIONS, AS I'CE, ARE AND SHALL REMAIN THE HITECT / ENGINEER WHETHER CONTECT / ENGINEER WHETHER CONTECT / ENGINEER WHETHER CONTECT / ENGINEER ON OTHER ONS TO THIS PROJECT, OR ROJECT-WHEN PHASED-WITHOUT ROJEC

PHONE: 208-343-4635 • FAX: 208-343-1

PHONE: 208-343-4635 • FAX: 208-343-1

THESE DRAWINGS AND SPECIFICATIONS, AS INSTRUMENTS OF SERVICE, ARE AND SHALL RE PROPERTY OF THE ARCHITECT / ENGINEER WH THE PROJECT FOR WHICH THEY ARE MADE IS FOR NOT. THESE DRAWINGS AND SPECIFICATION OF THE SENDITIONS TO THIS PROJECT, COMPLETION OF THIS PROJECT. WHEN PHASEE THE WRITTEN CONSENT OF CSHOA OR ITS AFF

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PROJECT DATE
24009 04-11-24

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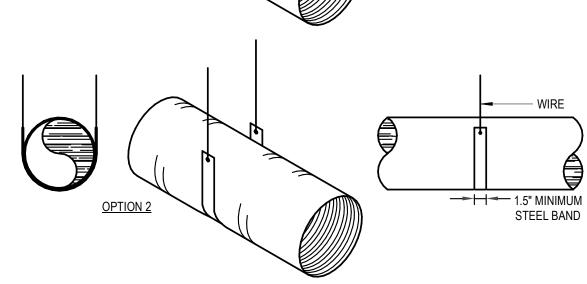
MECHANICAL NEW WORK ROOF PLAN

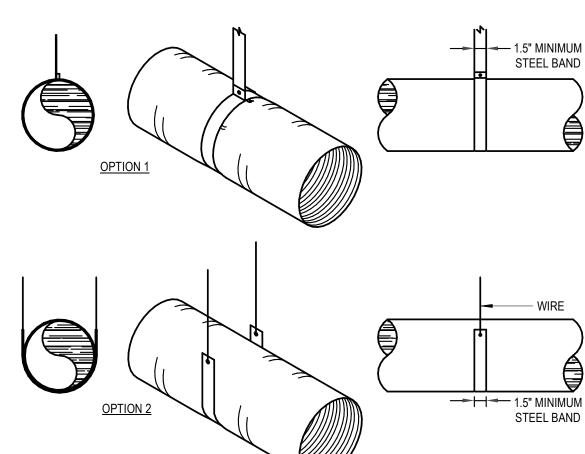
SHEET

- 13. DO NOT INSTALL FLEXIBLE DUCTWORK IN EXPOSED CEILING AREA.
- 12. FLEXIBLE DUCTWORK SHALL NOT BE INSTALLED IN CONCRETE, BURIED BELOW GRADE, OR IN CONTACT WITH THE
- FLEXIBLE DUCTWORK SHALL NOT BE INSTALLED WITHIN 4 INCHES OF HOT EQUIPMENT (FURNACES, BOILERS, STEAM PIPES, ETC.) THAT IS ABOVE 250°F.
- AVOID BENDING DUCT ACROSS SHARP CORNERS OR INCIDENTAL CONTACT WITH METAL FIXTURES, PIPES, OR CONDUITS.
- REPAIR TURN OR DAMAGED VAPOR BARRIER/JACKET WITH DUCT TAPE LISTED AND LABELED TO UL 181B. IF INTERNAL
- TERMINAL DEVICES SHALL BE SUPPORTED INDEPENDENTLY OF THE FLEXIBLE DUCTWORK.
- SUNLIGHT CAN OCCUR. PROLONGED EXPOSURE TO SUNLIGHT MAY CAUSE DETERIORATION OF VAPOR BARRIER.
- FLEXIBLE DUCTWORK IS FOR INDOOR USE ONLY. DO NOT INSTALL OR STORE PRODUCT WHERE EXPOSURE TO DIRECT
- FLEXIBLE DUCTWORK SHALL BE INSULATED WITH A MINIMUM R-VALUE OF 6.0.
- FLEXIBLE DUCTWORK SHALL BE FLEXMASTER 1-M OR APPROVED EQUAL.

CORE IS PENETRATED, REPLACE FLEXIBLE DUCTWORK.

- ATTACH BANDS OR WIRES TO SUPPORT STRUCTURE ABOVE.
- MAXIMUM LENGTH BETWEEN SUPPORTS MUST NOT EXCEED 3'-0" ON CENTER.
- FLEXIBLE DUCT MUST NOT EXCEED 6'-0" FROM CONNECTION TO TERMINATION.
- SUPPORT SYSTEM SHALL NOT DAMAGE, CRIMP, OR INHIBIT DUCT FREE AREA IN ANY WAY.





1 ROOFTOP UNIT - CURB MOUNTED SPRING RAIL DETAIL NTS

COMPLIANCE WITH THE INTERNATIONAL BUILDING CODE (LATEST ADOPTED EDITION).

MANUFACTURER SHALL PROVIDE CALCULATIONS FOR THE CURB MOUNTED SPRING RAIL SHOWING

COMPLIES WITH THE INTERNATIONAL BUILDING CODE
MANUELACTURER CUALL RECYGE CALCULATIONS FOR THE CURR MOUNTER ORRU

NOMINAL		IOTAL	NO. & TIPE OF CONNECTION (EQUALLI SPACED)									
ROOFTOP UNIT	MAX. WEIGHTS	LATERAL FORCE		ROOF STRUCTURE TYPE								
CAPACITY		(Fp)	METAL	WOOD	CONCRETE							
7-8 TONS	1050 LBS	1135 LBS	(6) 1/2" LAG BOLT	(6) 1/2" LAG BOLT	(6) 3/8" EXPANSION BOLT							
10-12 TONS	1300 LBS	1405 LBS	(8) 1/2" LAG BOLT	(8) 1/2" LAG BOLT	(8) 3/8" EXPANSION BOLT							
15-18 TONS	2500 LBS	2700 LBS	(14) 1/2" LAG BOLT	(14) 1/2" LAG BOLT	(14) 3/8" EXPANSION BOLT							
20-25 TONS	2800 LBS	3025 LBS	(16) 1/2" LAG BOLT	(16) 1/2" LAG BOLT	(16) 3/8" EXPANSION BOLT							

	(BY MECH. CO	NTRACTOR) —		RDS. CONCRETE - NO BLOCKI					
		CURB TO	O ROOF CONNE	ECTION SCHEDU	JLE				
NOMINAL ROOFTOP UNIT V CAPACITY		TOTAL	NO.	& TYPE OF CONNECTION (E	QUALLY SPACED)				
	MAX. WEIGHTS	LATERAL FORCE		ROOF STRUCTURE TYPE					
		(Fp)	METAL	WOOD	CONCRETE				
7-8 TONS	1050 LBS	1135 LBS	(6) 1/2" LAG BOLT	(6) 1/2" LAG BOLT	(6) 3/8" EXPANSION BOLT				
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15-18 TONS	2500 LBS	2700 LBS	(14) 1/2" LAG BOLT	(14) 1/2" LAG BOLT	(14) 3/8" EXPANSION BOLT				
00.05.70.00	0000100	2005 1 DO	(4C) 4(0" LAO DOLT	(4C) 4/011 A O DOLT	(40) 2/0" EVDANGION DOLT				

DUCT FLANGE CONNECTION AT ROOFTOP CURB	ROOFTOP UNIT (4) No. 2 SCREWS, TOP AND BOTTOM AT EACH CORNER OF 14 GAUGE GALVANIZED STEEL PLATE, 4" LONG (BY MECHANICAL CONTRACTOR).
CONTINUOUS UNIT SUPPORT	SHEET METAL FLASHING 3/8" LAG BOLT, SEE SCHEDULE FOR NUMBER REQUIRED. REMOVABLE SHEET METAL COVER FOR ADJUSTMENT AND INSPECTION (PROVIDED BY CURB MANUFACTURER)
FLEXIBLE DUCT CONNECTION TRANSITION TO	NEOPRENE WEATHERSEAL COUNTER FLASHING (BY MECH. CONTRACTOR)
UNIT OPENING CLOSED CELL NEOPRENE AIRSEAL, TOP & BOTTOM (BY MECH. CONTRACTOR)	RIGID INSULATION (BY MECH. CONTRACTOR) CANT STRIP (BY MECH. CONTRACTOR)
FACTORY CURB WITH MOUNTING FRAME	ROOFING MATERIAL (SEE ARCH. PLANS) ROOF INSULATION (VERIFY LOCATION W/ ARCH. PLANS)
	ROOF DECK (SEE ARCH. PLANS)
	SEE SCHEDULE FOR CONNECTION TYPE & NUMBER REQUIRED ROOF STRUCTURE, SEE STRUCTURAL PLANS
2 LAYERS 1/2" GYPSUM BOARD 1 1/2" RIGID INSULATION FOR SOUND PROOFING (BY MECH. CONTRACTOR)	BLOCKING BETWEEN ROOF STRUCTURE: WOOD - 4X4 BLOCKING W/4X4 HANGER ON EACH END. METAL - 4X4X1/4 ANGLE BLOCKING WELDED TO JOIST TOP CHORDS. CONCRETE - NO BLOCKING REQUIRED.

RECTANGULAR OR

(SEE PLAN FOR SIZE) -

ROUND DUCT

LOCKING QUADRANT

HANDLE OR REMOTE

STAND OFF -

SUSPENDED

CEILING TRACK -

SQUARE TEE

W/ TURNING VANES

⊖ = 45° MAXIMUM

CONCENTRIC TRANSITION

RADIUS OFFSET

ALL DUCTWORK TRANSITIONS SHALL BE CONSTRUCTED AND INSTALLED TO SMACNA, SPECIFICATIONS AND THE ABOVE NOTED STANDARDS. ANY DEVIATIONS SHALL BE COORDINATED WITH THE ENGINEER.

SEE SECTION 1

- NYLON OR STAINLESS STEEL

- NYLON OR STAINLESS STEEL CLAMP OVER FLEX DUCT

INSULATION

- LISTED AND LABELED TAPE OR

MASTIC PER UL181A OR UL181B

2 DUCT TAKEOFF DETAIL - HIGH EFFICIENT NTS

DUCT TAKE-OFF

90° TURNING VANES

SQUARE ELBOW W/ TURNING VANES

45° ELBOW

(SEE NOTE 4)

FLEX DUCT (SEE NOTE 4) -

RADIUS WYE

90° ELBOW

⊖ = 15° MAXIMUM

MITERED OFFSET

CLAMP OVER INSULATION

CEILING OPERATOR WHERE

DAMPER IS INACCESSIBLE

- RIGID ROUND

DUCT OR

DIFFUSER

COLLAR

HIGH EFFICIENCY DUCT

TAKE-OFF (SEE NOTES 1 & 3)

RIGID SHEET METAL DUCT

(SEE PLAN FOR SIZE)

BALANCE DAMPER (SEE NOTE 2)

- SUSPEND ELBOW FROM STRUCTURE

PROVIDE PLASTIC ELBOW SUPPORT (THERMAFLEX FLEX-FLOW OR TITUS

FLEX-RIGHT) ON ALL FLEX DUCT ELBOWS AT DIFFUSERS, SIZED TO FIT

DUCT. ALTERNATE: CONTRACTOR

- INSULATED FLEX

DUCT. MAX

LENGTH 6'-0"

(SEE NOTE 4)

CEILING GRILLE

2 #8 1" LONG PAN HEAD

SHEET METAL SCREW

THRU CEILING TRACK INTO DIFFUSER (TYP.) —

TAKE-OFFS SHOULD NOT BE INSTALLED CLOSER THAN TWO WIDTHS

FLEXIBLE DUCTWORK SHALL BE FLEXMASTER 8-M, THERMAFLEX M-KE

REFERENCE HVAC PLANS FOR REQUIRED BALANCE DAMPER LOCATIONS.

SQUARE TEE

W/ DUCT TAKE-OFFS

⊖ = 30° MAXIMUM

ECCENTRIC TRANSITION

20% MAX AREA REDUCTION

OBSTRUCTION REDUCTION

OR AN APPROVED EQUAL. FLEXIBLE DUCTWORK SHALL BE

INSULATED WITH A MINIMUM R VALUE OF 5.

RUN-OUT SHALL BE SAME SIZE AS COLLAR.

TO ELBOWS OR INTERSECTIONS.

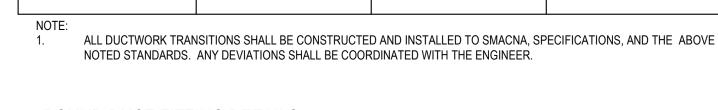
SEE BALANCE DAMPER DETAIL.

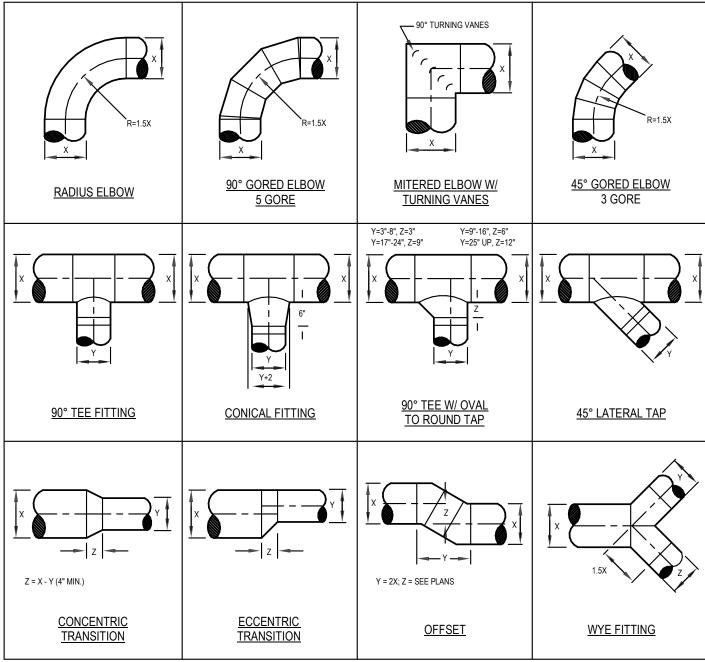
X NOT LESS THAN Y.

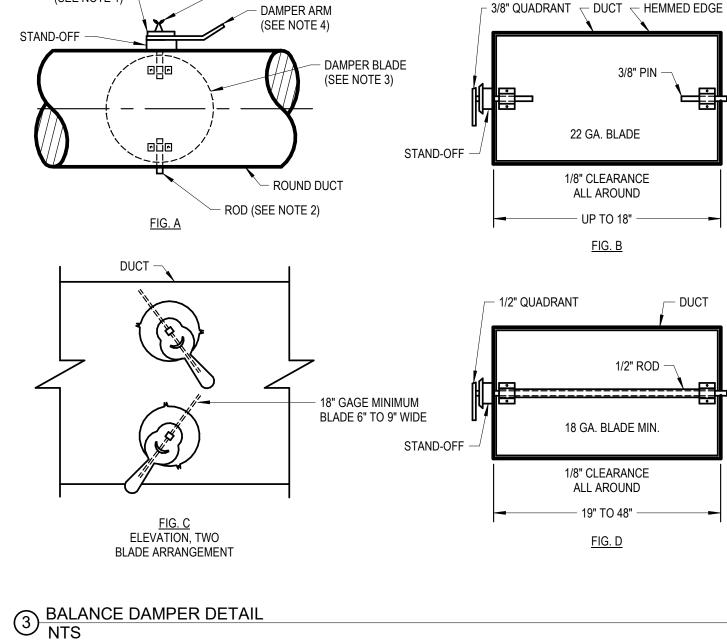
MAY USE HARD DUCT ELBOW IN PLACE OF FLEXIBLE DUCT.

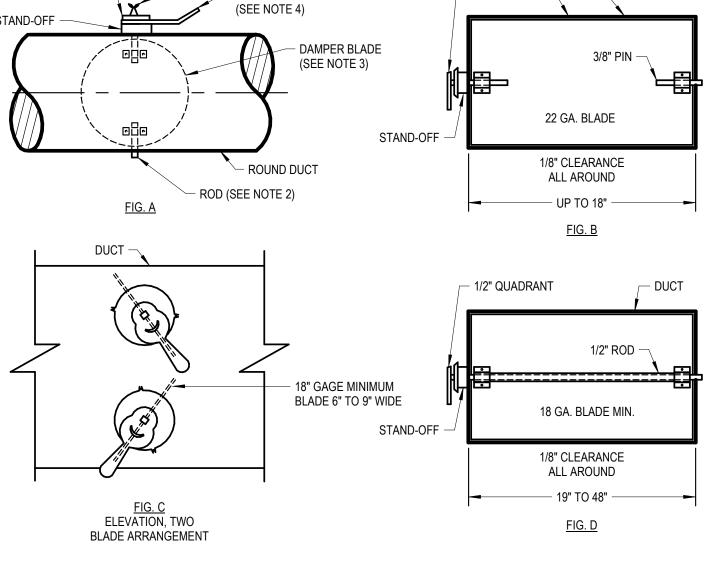
5 RECTANGULAR DUCT FITTING DETAILS NTS

6 ROUND DUCT FITTING DETAILS NTS









FOR TAKE-OFFS LARGER THAN 12" DIAMETER, USE A FACTORY MANUFACTURED DAMPER. LOUVERS &

ALTERNATE MANUFACTURERS INCLUDE: AMERICAN WARMING, SAFE-AIR/DOWCO, J&J, LOUVERS &

DAMPERS, INC. MODEL CD-600 WITH A LOCKING HAND QUADRANT OR EQUAL.

PROVIDE REMOTE CEILING OPERATOR WHERE DAMPER IS INACCESSIBLE

FOR DUCTS OVER 12" HIGH USE MULTIPLE BLADE DAMPERS (SEE FIG. C).

PROVIDE STAND-OFF FOR DAMPER ARMS LOCATED W/EXTERNAL INSULATION.

DAMPERS, RUSKIN, NAILOR, ARROW UNITED, POTTORFF, & CESCO.

VOLUME DAMPER (SEE NOTE 1) - ROD CONTINUOUS ON 2" W.G. CLASS AND ON ALL DAMPERS OVER 12" DIAMETER.

BLADE 22 GAGE MIN., BUT NOT LESS THAN TWO GAGES MORE THAN THE DUCT GAGE.



MUSGROVE ENGINEERING, P.A. 234 S. Whisperwood Way Boise, ID 83709 208.384.0585 645 West 25th Street Idaho Falls, ID 83402 208.523.2862

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PROJECT	DATE
24009	04-11-24
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SHEET TITLE **MECHANICAL DETAILS**

SHEET

					GA	SF	IRE	D M	IAKI	E-UP	AIR	UNI	TSC	HED	ULE			
SYMBOL AREA SERVED	TYPE	SUPPLY FAN			ELECTRICAL TEMP		COOLING CAPACITY 98.7°OSA, 63°EWB		GAS HEATING			WEIGHT	MANUFACTURER AND MODEL	REMARKS				
	AREA SERVED	1112	CFM	ESP	HP	RPM	V/Ø	MCA	RISE (°F)	STAGES	TOTAL MBH	SENS. MBH	INPUT MBH	OUTPUT MBH	BURNER EFF.	(LBS)		TALIMATAN
MAU-1	TESTING ROOM 112	OUTDOOR, DIRECT GAS FIRED, ROOF MOUNTED	1,300	0.6	0.75	1,700	208/3	18.6	80.0	2	28.7	28.7	106.5	98.0	92%	1,200	CAPTIVEAIRE A1-D.250-15D-MPU	1,3,4,5,6,7
MAU-2	LAB SPACES	OUTDOOR, DIRECT GAS FIRED, GRADE MOUNTED	4,700	(E)	5.0	(E)	208/3	19.4	62.0	2	93.8	93.8	315.0	283.0	90%	1,800	CAPTIVEAIRE A2-D.500-20D	2,7

REMARKS:

- NEW MAKEUP AIR UNIT.
- 2. EXISTING MAKEUP AIR UNIT RETROFITTED WITH NEW COOLING COIL. NEW COOLING COIL INCLUDES A 2-CIRCUIT MODULAR SYSTEM (3-TON & 5-TON CONDENSING UNITS).
- 3. APPROVED ALTERNATE MANUFACTURERS: STERLING, HASTINGS, REZNOR, AND TRANE.
- 4. PROVIDE UNIT WITH E-3 (409) STAINLESS STEEL HEAT EXCHANGER, FREEZESTAT, FAN SPEED CONTROLLER, DIRECT DRIVE EC MOTOR WITH FACTORY MOUNTED VFD, FILTER RACK AND FILTERS, INSULATED DOWNTURN PLENUM CABINET, 2-POSITION DISCHARGE DAMPER, 100% OSA SCREENED INLET AIR HOOD, AND FULL CURB.
- 5. PROVIDE UNIT WITH TOTALLY ENCLOSED, PREMIUM EFFICIENCY MOTORS AND MOTOR STARTERS.
- 6. PROVIDE UNIT WITH ELECTRONIC MODULATION WITH DUCTSTAT.
- 7. SEE CONTROL DRAWINGS FOR SEQUENCE OF OPERATION.

	PACKAGED AIR CONDITIONING SCHEDULE																						
		OSA MIN		OPER. WEIGHT	T MANUFACTURER AND MODEL	REMARKS																	
	ANLA SLIVED	ANDIOLIVED	TONS	CFM	ESP	BRAKE HP	DRIVE	STAGES	TOTAL MBH	SENS. MBH	INPUT MBH	OUTPUT MBH	MCA	МОСР	V/Ø	STATIC	MCA	МОСР	V/Ø	CFM	IEER	(LBS)	WWW. NOT ONE IN THE WORLD
RTU-1	TRAINING ROOM 117	8.5	3,000	0.6	1.03	DIRECT ECM	2	89.0	73.4	105.6 / 158.4	86.2 / 130.2	41	50	208/3	0.5	11.9	21.4	208/3	475	15.0	2,000	CARRIER 48FCEM09 HIGH EFFICIENCY	1,2,3,4,5,

REMARKS:

- APPROVED ALTERNATE MANUFACTURERS: TRANE, LENNOX, DAIKIN, AND YORK.
- 2. PROVIDE UNIT WITH SEVEN-DAY PROGRAMMABLE AUTO-CHANGEOVER WITH 5 DEGREE DEADBAND, ADAPTIVE INTELLIGENT AUTOMATIC START/ CONTROL, 3 STAGE HEAT, 2 STAGE COOLING THERMOSTAT HONEYWELL VISIONPRO MODEL TH8321R1001 WITH ECONOMIZER FAULT DETECTION. THERMOSTAT SHALL BE POWERED BY A 24VAC WIRE CONNECTION.
- PROVIDE UNIT WITH MANUFACTURER'S 14" ROOF CURB, MICROMETL WELDED SPRING ISOLATION CURB (SEE DETAIL FOR SEISMIC RESTRAINTS), SEE ROOFTOP UNIT DETAIL FOR MIN. PROVIDE WITH 2" PLEATED MERV 8 FILTER AND FILTER RACK WITH 4 EXTRA SETS. PROVIDE AND FIELD INSTALL HAIL GUARDS, FLUE EXTENDER, HIGH ALTITUDE KIT, THRU-THE-BOTTOM OF CURB ELECTRICAL CONNECTION KIT.
- 4. MAXIMUM "A-WEIGHTED" SUPPLY AIR SOUND RATINGS FOR UNITS 2-18 TONS = 95 DB @ 125 HZ, 90 DB @ 250 HZ, PER ARI STANDARDS 270 & 370.
- 5. PROVIDE WITH MODULATING MICROMETL GEAR DRIVEN INTEGRATED DRY BULB ECONOMIZER WITH BELIMO LOGIC ACTUATORS AND AUX END SWITCH, MICROMETL MODULATING POWER EXHAUST WITH VARIABLE SPEED MOTOR CONTROLLER (100%) RELIEF) WIRING HARNESS AND JADE CONTROLLER (USE JADE ONLY FOR STANDALONE TSTAT), PRESSURE SENSOR SET TO .02 POSITIVE PRESSURE. ELECTRICAL CONTRACTOR TO PROVIDE THE POWER CONNECTION BETWEEN RTU AND THE POWER EXHAUST AND PROVIDE FUSED DISCONNECT AS REQUIRED.
- 6. PROVIDE UNIT WITH CARRIER WALL MOUNTED C02 SENSOR. OUTSIDE AIR SHALL HAVE A MINIMUM SETPOINT OF ZERO AND THE DAMPER SHALL MODULATE OPEN AS REQUIRED TO SATISFY THE C02 SENSOR. THE OSA CFM LISTED IN THIS SCHEDULE SHALL BE THE MAXIMUM OSA DAMPER SETPOINT (IF NOT IN ECONOMIZER MODE). THE OUTSIDE AIR DAMPER SHALL CLOSE DURING THE UNOCCUPIED MODE.
- 7. PROVIDE A WATER LEVEL MONITOR IN THE PRIMARY DRAIN PAN INTERLOCKED WITH UNIT FOR UNIT SHUT-DOWN ON DETECTION OF WATER WHEN THE PRIMARY DRAIN IS PLUGGED.

	ELECTRIC HEATER SCHEDULE										
SYMBOL AREA SERVED	LINIT TYPE	FAN				ELECTRICAL			MANUEACTURER AND MORE	REMARKS	
	AREA SERVED	UNIT TYPE	CFM	RPM	HP	KW	STEPS	V/Ø	AMPS	MANUFACTURER AND MODEL	NEWIARNS
<u>EH-1</u>	TRAINING ENTRY 116	SURFACE MOUNTED	245	1400	1/8	2	1	208/1	9.6	MARKEL MODEL 3420 SERIES	1,2,3

- 1. APPROVED ALTERNATE MANUFACTURERS: BRASCH, QMARK, INDEECO, OUELLET, AND CHROMALOX.
- 2. MOUNT BOTTOM OF HEATER 12" ABOVE FINISH FLOOR.
- 3. PROVIDE UNIT WITH AN INTEGRAL THERMOSTAT. THERMOSTAT SHALL BE COVERED WITH A TAMPER-PROOF ACCESS COVER.

	DIFFUSER SCHEDULE									
SYMBOL	NOMINAL SIZE	NECK / RUNOUT SIZE	CFM RANGE	REMARKS						
D-1 CFM 6"Ø	6X6	6"Ø	0 - 90	1,2,3,4,5,6,7,8						
D-4 CFM 12"Ø	15X15	12"Ø	300 - 500	1,2,3,4,5,6,7						

REMARKS:

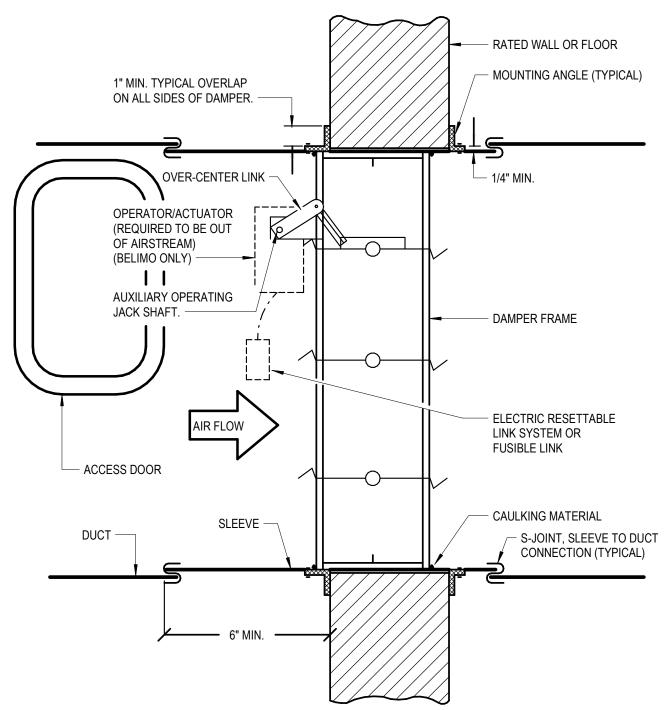
- 1. ALTERNATE MANUFACTURERS: ANEMOSTAT, J&J REGISTER, NAILOR, METAL-AIRE, TUTTLE & BAILEY, KRUEGER, PRICE, AND UNITED ENERTECH.
- 2. SIZES BASED ON TITUS MODEL TDC SERIES.
- 3. SIZES BASED ON A MAXIMUM NC LEVEL OF 25.
- 4. ALL DIFFUSERS LOCATED IN LAY-IN CEILING AREAS SHALL BE BORDER TYPE 3 AND BE MOUNTED IN MANUFACTURER PROVIDED 24"x24" PANELS. ALL DIFFUSERS LOCATED IN HARD CEILING AREAS SHALL BE BORDER TYPE 6 (BEVELED) SURFACE MOUNTED. SEE ARCHITECTURAL PLANS FOR LOCATIONS OF VARIOUS CEILING TYPES.
- 5. SEE HVAC FLOOR PLANS FOR DIRECTIONAL THROW REQUIREMENTS FOR EACH DIFFUSER.
- 6. 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.
- 7. COLOR TO BE SELECTED BY ARCHITECT.

RETU	RETURN & EXHAUST GRILLE SCHEDULE									
SYMBOL	NOMINAL SIZE	NECK / RUNOUT SIZE	CFM RANGE	REMARKS						
R-1 14"Ø	22X22	14"Ø	0-1,000	1,2,3,4,5,6						

- 1. ALTERNATE MANUFACTURERS: ANEMOSTAT, CARNES, PRICE, NAILOR, METAL-AIRE, TUTTLE & BAILEY, KRUEGER, J&J REGISTER, AND UNITED ENERTECH.
- 2. SIZES BASED ON TITUS MODEL 50F, ALUMINUM EGGCRATE RETURN GRILLE, 1/2" x 1/2" x 1" SPACING (SINGLE CORE). PROVIDE SQUARE TO ROUND TRANSITION (WHERE ROUND RUN-OUT INDICATED).
- 3. SIZES BASED ON A MAXIMUM NC LEVEL OF 25.
- ALL GRILLES LOCATED IN LAY-IN CEILING AREAS SHALL HAVE BORDER #3, UNLESS OTHERWISE INDICATED. ALL GRILLES LOCATED IN HARD CEILING AREAS SHALL HAVE BORDER #1, UNLESS OTHERWISE INDICATED. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS OF VARIOUS CEILING TYPES. SHEET METAL DUCTWORK VISIBLE BEHIND GRILLE SHALL BE PAINTED FLAT BLACK.
- 5. 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.
- 6. COLOR TO BE SELECTED BY ARCHITECT.

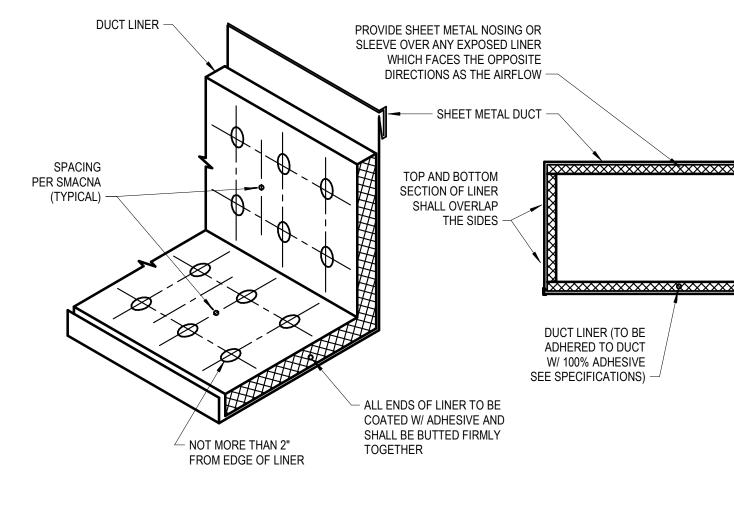
COMBINATION FIRE AND SMOKE DAMPER SHALL BE MINIMUM UL CLASSIFIED (UL555/UL555S) CLASS II, 250° F.

- SMOKE DETECTORS SHALL BE SPECIFIED FOR PROPER LISTING AND PROVIDED BY ELECTRICAL DIVISION. WIRING AND FINAL CONNECTION TO COMBINATION FIRE AND SMOKE DAMPER SHALL BE BY
- EACH COMBINATION FIRE AND SMOKE DAMPER SHALL CLOSE BY ACTUATION OF A SMOKE DETECTOR. THE SMOKE DETECTOR LOCATION HAS BEEN SHOWN ON THE MECHANICAL OR ELECTRICAL DRAWINGS IN ACCORDANCE WITH THE FIRE CODE AND ONE OF THE FOLLOWING APPLICABLE METHODS AS PRESCRIBED
- DETECTOR SHALL BE INSTALLED IN THE DUCT WITHIN 5 FEET OF THE DAMPER WITH NO AIR OUTLETS OR INLETS BETWEEN THE DETECTOR AND THE DAMPER. THE DETECTOR SHALL BE IT IS INSTALLED. DUCT SMOKE DETECTORS SHALL BE INSTALLED BY MECHANICAL CONTRACTOR. FOR DUCTWORK SMALLER THAN 12"X12" OR 12"Ø, MECHANICAL CONTRACTOR SHALL PROVIDE A MINIMUM 12"X12" OR 12"∅ SECTION OF DUCTWORK FOR INSTALLATION OF IN-DUCT SMOKE DETECTOR. COORDINATE EXACT REQUIREMENTS WITH ELECTRICAL CONTRACTOR. RE: ELECTRICAL DRAWINGS FOR SMOKE DETECTOR LOCATIONS.
- IF THE COMBINATION FIRE AND SMOKE DAMPER IS INSTALLED WITHIN AN UNDUCTED OPENING IN A WALL, A SPOT-TYPE DETECTOR LISTED FOR RELEASING SERVICE SHALL BE INSTALLED WITHIN 5 FEET HORIZONTALLY OF THE DAMPER. SMOKE DETECTORS SHALL BE INSTALLED BY ELECTRICAL
- IF THE COMBINATION FIRE AND SMOKE DAMPER IS INSTALLED IN A CORRIDOR WALL, THE DAMPER MAY BE CONTROLLED BY A SMOKE-DETECTION SYSTEM INSTALLED IN THE CORRIDOR. SMOKE DETECTORS SHALL BE INSTALLED BY ELECTRICAL CONTRACTOR. RE: ELECTRICAL
- WHEN A TOTAL-COVERAGE SMOKE-DETECTION SYSTEM IS PROVIDED WITHIN ALL AREAS SERVED BY AN HVAC SYSTEM, COMBINATION FIRE AND SMOKE DAMPERS MAY BE CONTROLLED BY THE SMOKE-DETECTION SYSTEM. SMOKE DETECTORS SHALL BE INSTALLED BY ELECTRICAL CONTRACTOR. RE: ELECTRICAL DRAWINGS FOR SMOKE DETECTOR LOCATIONS.
- SMOKE DETECTORS SHALL BE CONNECTED TO THE BUILDING FIRE ALARM SYSTEM BY ELECTRICAL
- COMBINATION FIRE AND SMOKE DAMPER SHALL BE INSTALLED WITH APPROVED MANUFACTURER'S
- APPROVED MANUFACTURER'S SHALL INCLUDE: RUSKIN, NAILOR, PREFCO, CESCO, AIR BALANCE,



① COMBINATION FIRE AND SMOKE DAMPER DETAIL NTS

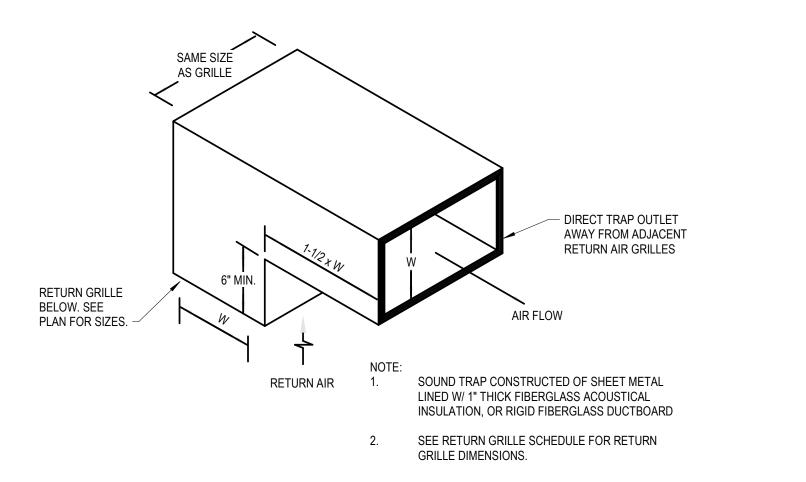
- ELECTRICAL CONTRACTOR.
- BY THE INTERNATIONAL MECHANICAL CODE (IMC):
 - IF THE COMBINATION FIRE AND SMOKE DAMPER IS INSTALLED WITHIN A DUCT, SMOKE LISTED FOR THE AIR VELOCITY, TEMPERATURE, AND HUMIDITY ANTICIPATED AT THE POINT WHERE
 - CONTRACTOR. RE: ELECTRICAL DRAWINGS FOR SMOKE DETECTOR LOCATIONS.
 - DRAWINGS FOR SMOKE DETECTOR LOCATIONS.
- SMOKE DAMPERS SHALL BE PROVIDED WITH END SWITCH FOR REMOTE LED.
- INSTALLATION INSTRUCTIONS.
- SAFE-AIR/DOWCO, OR APPROVED EQUAL. BELIMO OPERATORS/ACTUATORS ONLY.



OMARK INSUL-PINS, DURO DYNE FASTENERS OR GRIP NAILS

INSTALLED BY GRIP NAIL AIR HAMMER OR AUTO FASTENER EQUIP.





234 S. Whisperwood Way Boise, ID 83709 208.384.0585 645 West 25th Street Idaho Falls, ID 83402 208.523.2862 Project No. 24-078

MUSGROVE ENGINEERING, P.A

CD REVISED

SHEET TITLE

MECHANICAL DETAILS & SCHEDULES

SHEET

THE EXISTING MAKEUP AIR UNITS (MAU-1 & MAU-2) AND THE EXISTING EXHAUST FAN (EF-3) ARE CURRENTLY CONTROLLED BY AN EXISTING WALL SWITCH. THE INTENT OF THIS PROJECT IS TO REPLACE AND RELOCATE MAU-1 ALONG WITH ADDING COOLING, AND ADDING COOLING TO MAU-2. THE EXISTING CONTROL SYSTEM SHALL BE MODIFIED TO INCLUDE CONTROL OF THE NEW COOLING. SYSTEMS. THE FOLLOWING IS AN OUTLINE OF HOW THE SYSTEM SHOULD OPERATE. THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR A COMPLETE AND OPERATIONAL SYSTEM.

WALL SWITCH ENABLED MODE

WHEN THE EXISTING WALL SWITCH IS ENABLED THE FOLLOWING SEQUENCE SHALL OCCUR:

- 1. SEND AN ENABLE COMMAND TO THE EXISTING EXHAUST FAN (EF-3).
- a. OPEN THE MOTORIZED DAMPER. 2. SEND AN ENABLE COMMAND TO THE NEW MAKEUP AIR UNIT (MAU-1).
- a. OPEN THE OUTSIDE AIR DAMPER. 3. SEND AN ENABLE COMMAND TO THE EXISTING MAKEUP AIR UNIT (MAU-2). a. OPEN THE OUTSIDE AIR DAMPER.

WALL SWITCH DISABLED MODE

WHEN THE EXISTING WALL SWITCH IS DISABLED THE FOLLOWING SEQUENCE SHALL OCCUR:

- SEND AN DISABLE COMMAND TO THE NEW MAKEUP AIR UNIT (MAU-1)
- a. CLOSE THE OUTSIDE AIR DAMPER. 2. SEND AN DISABLE COMMAND TO THE EXISTING MAKEUP AIR UNIT (MAU-2).
- a. CLOSE THE OUTSIDE AIR DAMPER. 3. SEND AN DISABLE COMMAND TO THE EXISTING EXHAUST FAN (EF-3).

COOLING MODE OF OPERATION (DX COOLING)

a. CLOSE THE MOTORIZED DAMPER.

THE DX COOLING MODE OF OPERATION SHALL BE ENABLED WHENEVER THE FOLLOWING CONDITION EXISTS:

1. THE DISCHARGE AIR TEMPERATURE INCREASES ABOVE THE DISCHARGE AIR TEMPERATURE COOLING SET

WHEN THE ABOVE CONDITION IS MET THE UNIT CONTROLLER SHALL SEQUENCE THE FOLLOWING:

- 1. SEND AN ENABLE COMMAND TO THE DX COOLING SYSTEM (COMPRESSORS / CONDENSER FANS) FOR THE NEW MAKEUP AIR UNIMA(U-1).
- a. THE UNIT'S CONTROLLER SHALL STAGE THE COMPRESSORS TO MAINTAIN THE DISCHARGE AIR TEMPERATURE COOLING SET POINT.

- 2. SEND AN ENABLE COMMAND TO THE NEW DX COOLING SYSTEM (COMPRESSORS / CONDENSER FANS) FOR THE EXISTING MAKEUP AIR UNMAU-2).
- a. THE UNIT'S CONTROLLER SHALL STAGE THE COMPRESSORS TO MAINTAIN THE DISCHARGE AIR TEMPERATURE COOLING SET POINT.

THE COOLING MODE OF OPERATION SHALL BE DISABLED WHENEVER THE FOLLOWING CONDITION EXISTS

- 1. THE DISCHARGE AIR TEMPERATURE DECREASES BELOW THE DISCHARGE AIR TEMPERATURE COOLING
- WHEN THE ABOVE CONDITION IS MET THE UNIT CONTROLLER SHALL SEQUENCE THE FOLLOWING:

1. SEND A DISABLE COMMAND TO THE DX COOLING SYSTEM (COMPRESSORS / CONDENSER FANS) FOR THE

NEW MAKEUP AIR UNIMAU-1 2. SEND A DISABLE COMMAND TO THE NEW DX COOLING SYSTEM (COMPRESSORS / CONDENSER FANS) FOR THE EXISTING MAKEUP AIR UNMAU-2

THE HEATING MODE OF OPERATION SHALL BE ENABLED WHENEVER THE FOLLOWING CONDITION EXISTS:

- 1. THE DISCHARGE AIR TEMPERATURE DECREASES BELOW THE DISCHARGE AIR TEMPERATURE HEATING
- WHEN THE ABOVE CONDITION IS MET THE UNIT CONTROLLER SHALL SEQUENCE THE FOLLOWING:
- 1. SEND AN ENABLE COMMAND TO THE HEATING SYSTEM FOR THE NEW MAKEUP AIR UNIT (MAU-1). a. THE UNIT'S CONTROLLER SHALL MODULATE THE GAS VALVE TO MAINTAIN THE DISCHARGE AIR
- TEMPERATURE HEATING SET POINT. 2. SEND AN ENABLE COMMAND TO THE HEATING SYSTEM FOR THE EXISTING MAKEUP AIR UNIT (MAU-2) a. THE UNIT'S CONTROLLER SHALL MODULATE THE GAS VALVE TO MAINTAIN THE DISCHARGE AIR TEMPERATURE HEATING SET POINT.

THE HEATING MODE OF OPERATION SHALL BE DISABLED WHENEVER THE FOLLOWING CONDITION EXISTS:

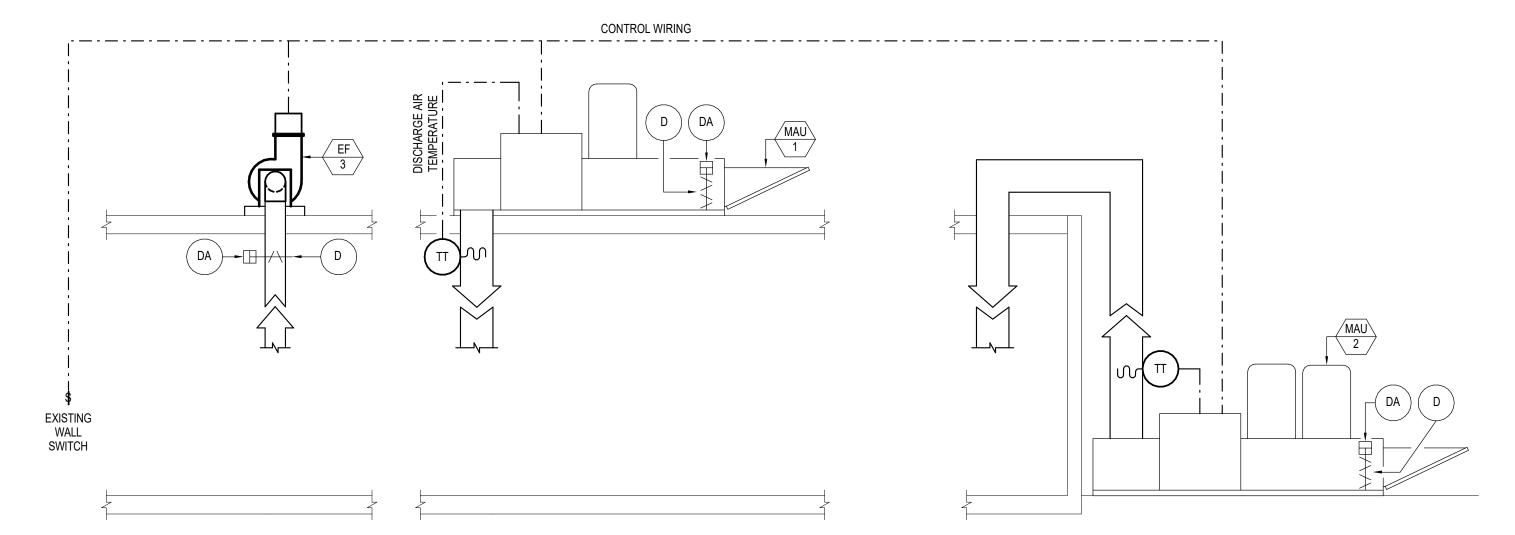
1. THE DISCHARGE AIR TEMPERATURE INCREASES ABOVE THE DISCHARGE AIR TEMPERATURE HEATING SET

WHEN THE ABOVE CONDITION IS MET THE UNIT CONTROLLER SHALL SEQUENCE THE FOLLOWING:

1. SEND A DISABLE COMMAND TO THE HEATING SYSTEM FOR THE NEW MAKEUP AIR UNIT (MAU-1). 2. SEND A DISABLE COMMAND TO THE HEATING SYSTEM FOR THE EXISTING MAKEUP AIR UNIT (MAU-2).

THE DISCHARGE AIR TEMPERATURE COOLING SET POINT SHALL BE 75°F (ADJUSTABLE) THE DISCHARGE AIR TEMPERATURE HEATING SET POINT SHALL BE 65°F (ADJUSTABLE).

BOTH MAKEUP AIR UNITS SHALL INCLUDE FREEZE STATS TO PROTECT THE BUILDING FROM FREEZING.



LAB VENTILATION SYSTEM (CONSTANT VOLUME) CONTROL SYSTEM SCHEMATIC

LAB VENTILATION SYSTEM (CONSTANT VOLUME) CONTROL SEQUENCE OF OPERATION

THE PACKAGED ROOFTOP UNIT W/ CONSTANT VOLUME (CV) AND DEMAND CONTROL VENTILATION SHALL CONSIST OF AN OUTSIDE AIR INTAKE W/ MODULATING DAMPERS, A RETURN AIR INTAKE W/ MODULATING DAMPERS, AN EXHAUST FAN W/ A VFD. A SUPPLY FAN, A GAS-FIRED HEAT EXCHANGER, A DX COOLING COIL, A SPACE TEMPERATURE SENSOR, A CARBON DIOXIDE SENSOR, AND A PRESSURE SENSOR. THE MECHANICAL CONTRACTOR SHALL PROVIDE A NEW CONTROL PACKAGE DEDICATED TO THE COMPLETE OPERATION OF THE

THE SUPPLY FAN SHALL START AND STOP ON THE MASTER WEEKLY AND HOLIDAY SCHEDULE SET AT THE THERMOSTAT.

THE TEMPERATURE SENSOR SHALL SIGNAL THE UNIT CONTROLLER ITS TEMPERATURE AND THE TEMPERATURE OF THE HEATING AND COOLING SET POINTS

THE CARBON DIOXIDE SENSOR SHALL SIGNAL THE UNIT CONTROLLER THE SPACE CO ,LEVEL.

THE UNIT CONTROLLER SHALL BE CAPABLE OF BEING MANUALLY RESET TO THE OCCUPIED MODE FOR A 2-HOUR TIME PERIOD (ADJUSTABLE) UPON A SIGNAL FROM AN OVERRIDE BUTTON LOCATED ON THE TEMPERATURE SENSOR.

MORNING WARM-UP / COOLDOWN

MORNING WARM-UP SHALL BE CONTROLLED BY AN OPTIMUM START PROVIDED BY THE UNIT CONTROLLER THAT AIDS IN THE REDUCTION OF ENERGY COSTS DURING A BUILDING'S TRANSITION FROM UNOCCUPIED TO OCCUPIED MODE. THIS SCENARIO IS ACCOMPLISHED BY TURNING ON THE PRE-HEATING / PRE-COOLING AS LATE AS POSSIBLE TO REACH COMFORT LEVELS PRIOR TO OCCUPANCY.

THE UNIT CONTROLLER OPTIMUM START MODE SHALL CONTINUOUSLY MONITOR, CALCULATE AND ADJUST THE FOLLOWING VARIABLES IN ORDER TO DETERMINE THE OPTIMAL START TIMES:

- OUTSIDE AIR TEMPERATURE. 2. RATE OF WARM-UP AFTER EQUIPMENT START-UP.
- 3. TEMPERATURE DIFFERENCE BETWEEN THE ZONE TEMPERATURE AND THE HEATING / COOLING SET
- 4. AMOUNT OF TIME REQUIRED TO RAISE OR LOWER THE ZONE TEMPERATURE 1°F.
- 5. THE OUTSIDE AIR DAMPER SHALL REMAIN CLOSED DURING THE WARM-UP MODE.

WHEN THE UNIT IS SCHEDULED INTO THE OCCUPIED MODE THE UNIT CONTROLLER SHALL SEQUENCE THE

- 1. SEND AN ENABLE COMMAND TO THE OUTSIDE AIR / RETURN AIR DAMPERS. a. THE DAMPERS SHALL MODULATE TO PROVIDE THE MINIMUM AMOUNT OF OUTSIDE AIRFLOW (AS
- INDICATED IN THE ROOFTOP UNIT SCHEDULE). 2. SEND AN ENABLE COMMAND TO THE SUPPLY FAN.

THE OCCUPIED MODE SPACE TEMPERATURE COOLING SET POINT SHALL BE SET AT 75°F (ADJUSTABLE). THE OCCUPIED MODE SPACE TEMPERATURE HEATING SET POINT SHALL BE SET AT 70°F (ADJUSTABLE).

WHEN THE UNIT IS SCHEDULED INTO THE UNOCCUPIED MODE, THE UNIT CONTROLLER SHALL SEQUENCE THE FOLLOWING:

- 1. SEND A DISABLE COMMAND TO THE OUTSIDE AIR / RETURN AIR DAMPERS. a. THE DAMPERS SHALL MODULATE TO PROVIDE 100% RETURN AIR.
- 2. SEND A DISABLE COMMAND TO THE SUPPLY FAN.

THE SUPPLY FAN SHALL CYCLE W/ THE HEATING AND COOLING MODES OF OPERATION TO MAINTAIN THE UNOCCUPIED SPACE TEMPERATURE SET POINTS.

THE UNOCCUPIED MODE SPACE TEMPERATURE COOLING SET POINT SHALL BE SET AT 85°F (ADJUSTABLE). THE UNOCCUPIED MODE SPACE TEMPERATURE HEATING SET POINT SHALL BE SET AT 55°F (ADJUSTABLE).

COOLING MODE OF OPERATION (DRY BULB ECONOMIZER) THE DRY BULB ECONOMIZER COOLING MODE OF OPERATION SHALL BE ENABLED WHENEVER BOTH OF THE

1. THE SPACE TEMPERATURE INCREASES ABOVE THE SPACE TEMPERATURE COOLING SET POINT.

- 2. THE OUTSIDE AIR TEMPERATURE IS BELOW THE RETURN AIR TEMPERATURE.
- WHEN THE ABOVE CONDITIONS ARE MET THE UNIT CONTROLLER SHALL SEQUENCE THE FOLLOWING:
- 1. SEND AN ENABLE COMMAND TO THE OUTSIDE AIR / RETURN AIR DAMPERS. a. THE DAMPERS SHALL MODULATE UP TO 100% OUTSIDE AIR TO MAINTAIN THE SPACE TEMPERATURE COOLING SET POINT.

- THE DX COOLING MODE OF OPERATION SHALL BE ENABLED WHENEVER BOTH THE FOLLOWING CONDITIONS
- OUTSIDE AIR SETTINGS.

1. THE SPACE TEMPERATURE INCREASES ABOVE THE SPACE TEMPERATURE COOLING SET POINT.

2. THE OUTSIDE AIR / RETURN AIR DAMPERS ARE POSITIONED AT EITHER THEIR MINIMUM OR MAXIMUM

WHEN THE ABOVE CONDITIONS ARE MET THE UNIT CONTROLLER SHALL SEQUENCE THE FOLLOWING:

- SEND AN ENABLE COMMAND TO THE DX COOLING SYSTEM (COMPRESSORS / CONDENSER FANS) a. THE UNIT'S CONTROLLER SHALL STAGE THE COMPRESSORS TO MAINTAIN THE SPACE TEMPERATURE COOLING SET POINT
- THE COOLING MODE OF OPERATION SHALL BE DISABLED WHENEVER THE FOLLOWING CONDITION EXISTS:
- THE SPACE TEMPERATURE DECREASES BELOW THE SPACE TEMPERATURE COOLING SET POINT.
- 1. SEND A DISABLE COMMAND TO THE DX COOLING SYSTEM (COMPRESSORS / CONDENSER FANS).

WHEN THE ABOVE CONDITION IS MET THE UNIT CONTROLLER SHALL SEQUENCE THE FOLLOWING:

- THE HEATING MODE OF OPERATION SHALL BE ENABLED WHENEVER THE FOLLOWING CONDITIONS EXIST:
- 1. THE SPACE TEMPERATURE DECREASES BELOW THE SPACE TEMPERATURE HEATING SET POINT
- WHEN THE ABOVE CONDITION IS MET THE UNIT CONTROLLER SHALL SEQUENCE THE FOLLOWING:
- 1. SEND AN ENABLE COMMAND TO GAS-FIRED HEATING SYSTEM. a. THE UNIT CONTROLLER SHALL STAGE THE HEATING SYSTEM TO MAINTAIN THE SPACE

THE SPACE TEMPERATURE HEATING MODE OF OPERATION SHALL BE DISABLED WHENEVER THE FOLLOWING

- 1. THE SPACE TEMPERATURE INCREASES ABOVE THE SPACE TEMPERATURE HEATING SET POINT.
- WHEN THE ABOVE CONDITION IS MET THE UNIT CONTROLLER SHALL SEQUENCE THE FOLLOWING:
- 1. SEND A DISABLE COMMAND TO THE GAS-FIRED HEATING SYSTEM. 2. ALLOW THE UNIT TO ENTER BACK INTO THE OCCUPIED / UNOCCUPIED MODE OF OPERATION.

INDOOR AIR QUALITY (IAQ) OPERATION WHENEVER THE ROOFTOP UNIT IS IN THE OCCUPIED MODE AND THE SUPPLY FAN IS ON, THE UNIT CONTROLLER SHALL CONTINUOUSLY CALCULATE THE MINIMUM DAMPER POSITION NECESSARY TO MAINTAIN THE SPACE CO SET POINT. AS THE CO LEVEL INCREASES ABOVE THE SET POINT, THE ROUTINE SHALL INCREASE THE OUTSIDE AIR REQUIREMENT AND AS THE COLEVEL FALLS BELOW THE SET POINT, THE ROUTINE SHALL DECREASE THE CALCULATED VALUE. THE MINIMUM AND MAXIMUM OUTSIDE AIR DAMPER POSITIONS SHALL BE EQUAL TO THE OUTSIDE AIRFLOWS LISTED IN THE ROOFTOP UNIT SCHEDULE.

THE SPACE CO 2SET POINT SHALL BE SET AT 1100 PPM (ADJUSTABLE).

TEMPERATURE HEATING SET POINT.

PACKAGED ROOFTOP UNIT W/ CONSTANT VOLUME (CV) W/ DEMAND

CONTROLLED VENTILATION CONTROL SEQUENCE OF OPERATION

THE EXHAUST SYSTEM SHALL BE ENABLED WHENEVER THE FOLLOWING CONDITIONS EXIST:

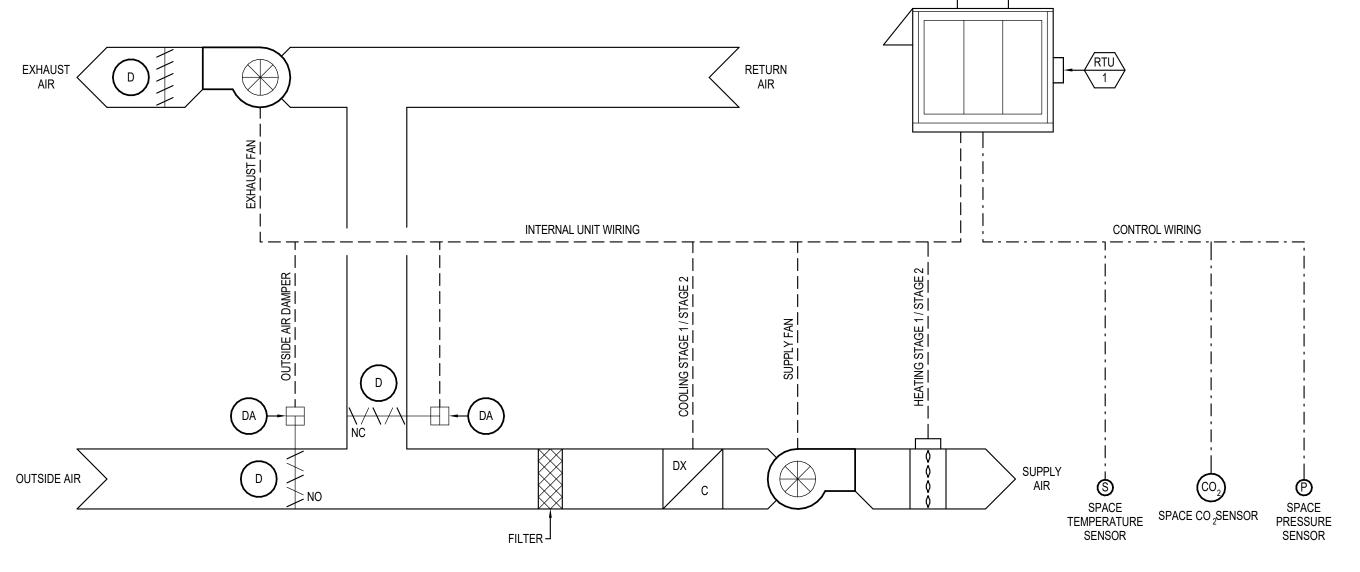
- 1. THE SUPPLY FAN IS ENABLED.
- 2. THE SPACE STATIC PRESSURE INCREASES TO THE DIFFERENTIAL PRESSURE SET POINT OF (POSITIVE) +0.01" W.G. (ADJUSTABLE).

WHEN THE ABOVE CONDITIONS ARE MET THE UNIT CONTROLLER SHALL ENABLE THE FOLLOWING:

- 1. SEND AN ENABLE COMMAND TO THE EXHAUST FAN.
- c. THE UNIT CONTROLLER SHALL MODULATE THE VFD TO MAINTAIN THE SPACE STATIC PRESSURE

THE EXHAUST SYSTEM SHALL BE DISABLED WHENEVER ONE OF THE FOLLOWING CONDITIONS EXISTS:

- 2. THE SPACE PRESSURE DECREASES TO (NEGATIVE) -0.01" W.G. (ADJUSTABLE).
- WHEN ONE OF THE ABOVE CONDITIONS IS MET, THE UNIT CONTROLLER SHALL ENABLE THE FOLLOWING:
- 1. SEND A DISABLE COMMAND TO THE EXHAUST FAN.



PACKAGED ROOFTOP UNIT W/ CONSTANT VOLUME (CV) W/ DEMAND CONTROLLED VENTILATION CONTROL SYSTEM SCHEMATIC



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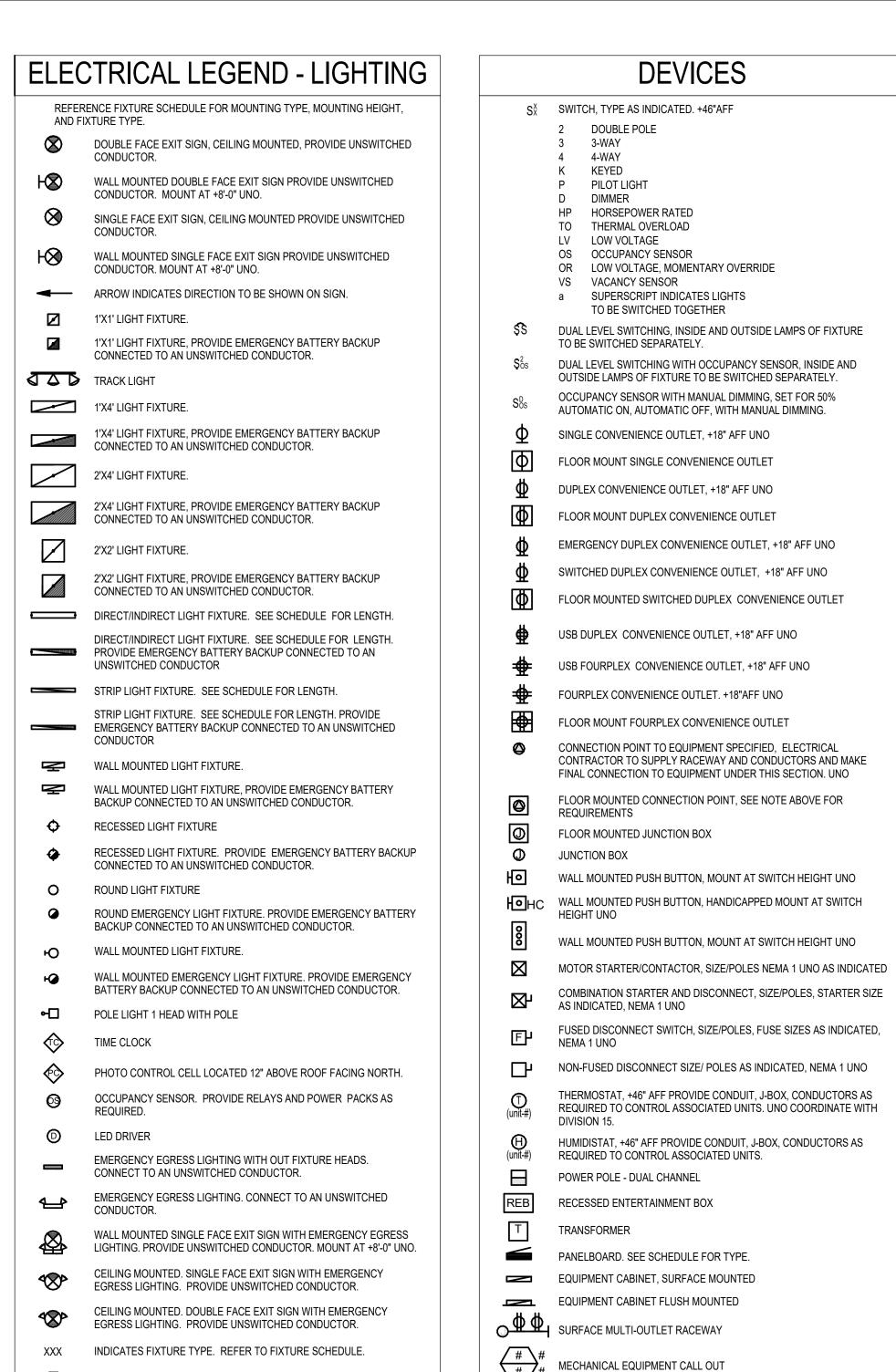
645 West 25th Street

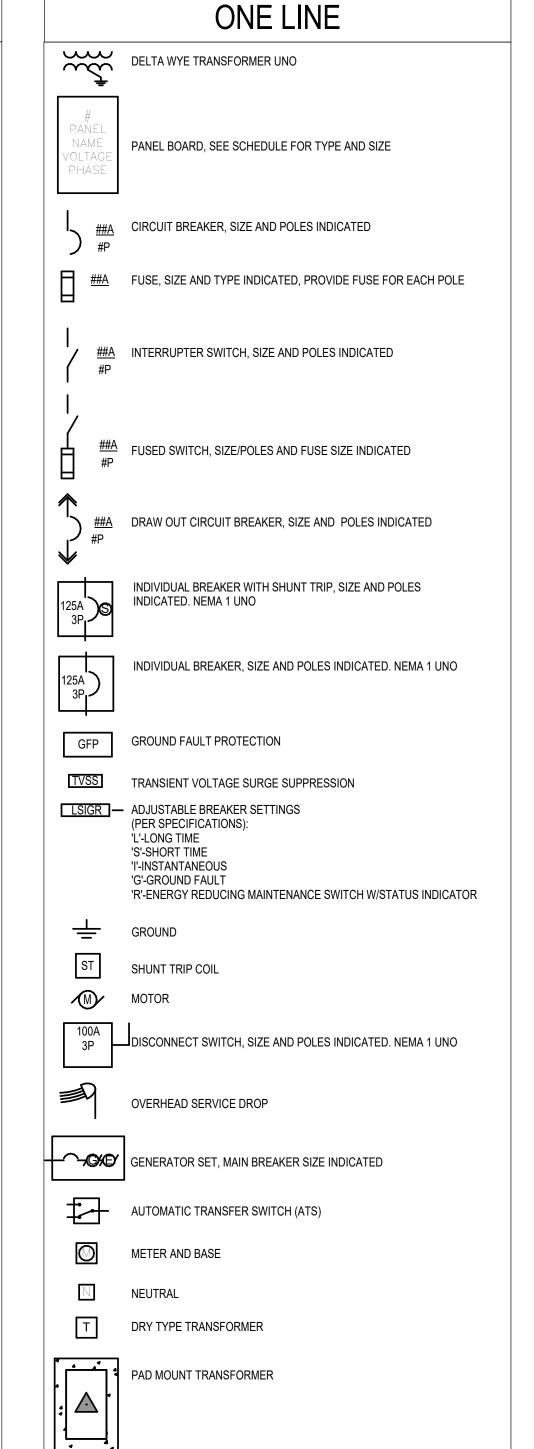
Idaho Falls, ID 83402

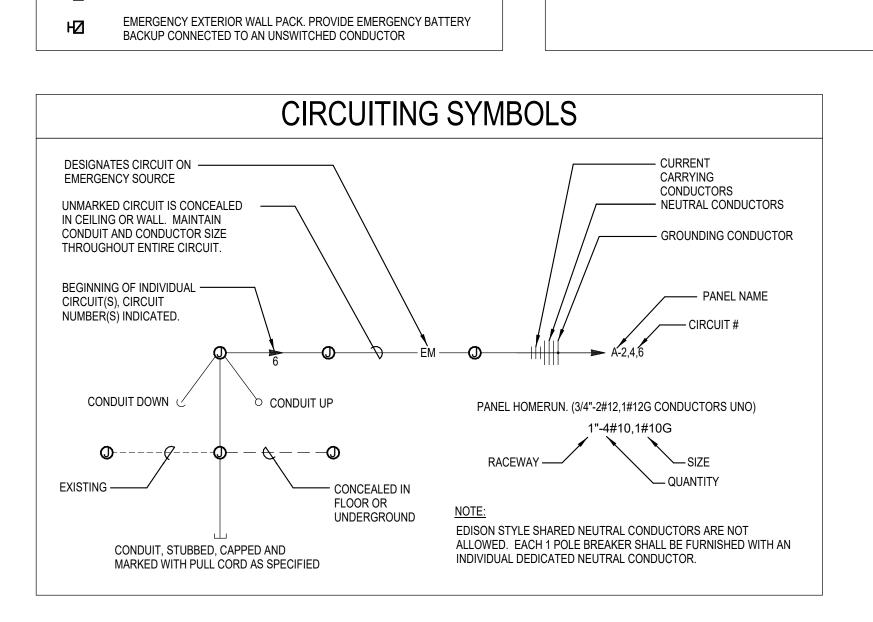
208.523.2862

Project No. 24-078

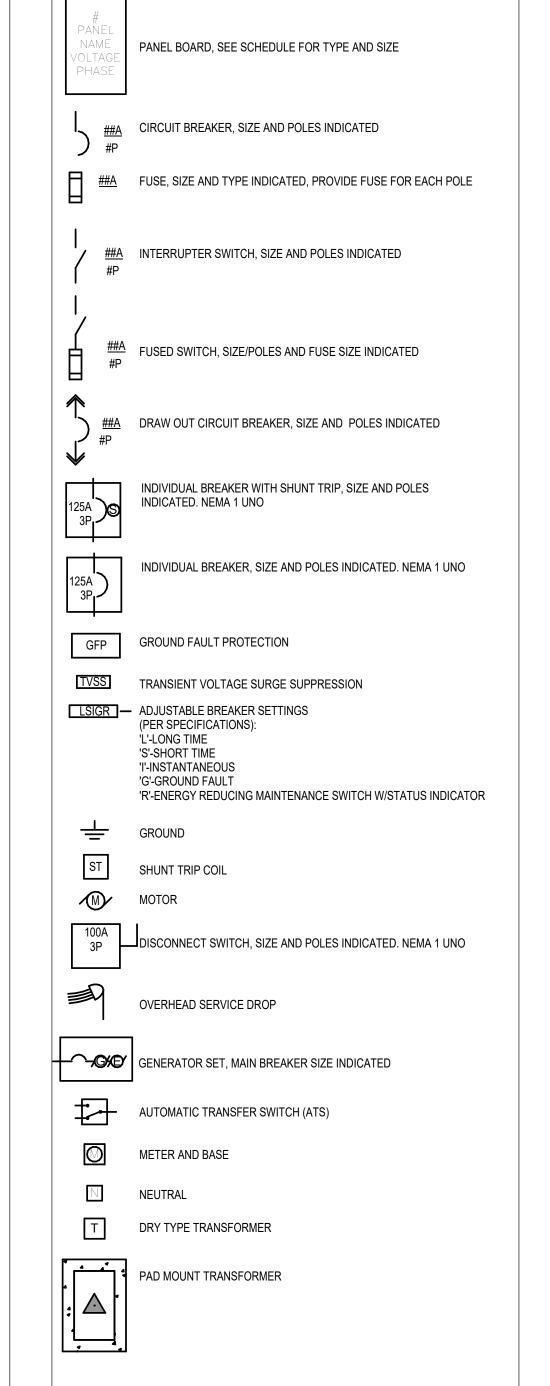
SHEET







EXTERIOR WALL PACK



FIRE ALARM								
FIRE/SMOKE DAMPER								
LED INDICATOR LIGHT, CEILING MOUNTED UNO								
LED INDICATOR LIGHT WITH TEST SWITCH, CEILING MOUNTED UNO DUCT-MOUNTED SMOKE DETECTOR								

(F)

E

E,

R

RELAY

ELECTRICAL GENERAL NOTES

- THESE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE; THEREFORE, THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL EQUIPMENT AND DEVICE LOCATIONS WITH ARCHITECTURAL, MECHANICAL. AND PLUMBING DIVISIONS PRIOR TO ROUGH-IN. REFER TO AND COORDINATE WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL WORK THAT IS REQUIRED BY THE ELECTRICAL CONTRACTOR.
- ALL CONDUIT AND JUNCTION BOXES ARE TO BE CONCEALED UNLESS LOCATED WITHIN DEDICATED ELECTRICAL OR MECHANICAL ROOMS. USE OF SURFACE MOUNTED RACEWAYS IN ALL OTHER SPACES MUST BE APPROVED BY THE ARCHITECT FOR EACH LOCATION. WHERE SURFACE RACEWAYS ARE APPROVED, UTILIZE WIREMOLD, OR APPROVED EQUAL, SURFACE MOUNTED RACEWAYS PAINTED TO MATCH SURROUNDING WALLS.
- REFER TO ARCHITECTURAL ELEVATIONS FOR OUTLET HEIGHTS WHERE THE SPECIFIC OUTLET HEIGHT IS NOT INDICATED. REFER TO THE ELECTRICAL LEGEND FOR THE DEFAULT OUTLET HEIGHT WHEN NOT INDICATED ON
- D. PROVIDE PULL-LINE IN ALL EMPTY CONDUITS.

ELEVATIONS OR ON AT THE DEVICES.

- E. TERMINATE ALL LOW-VOLTAGE CONDUITS WITH INSULATED THROAT BUSHING.
- MECHANICAL EQUIPMENT INDICATED IS SHOWN IN AN APPROXIMATE LOCATION. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
- INSTALL PLENUM RATED FIRE ALARM CONDUCTORS FROM ALL FIRE ALARM DEVICES INDICATED TO THE FIRE ALARM CONTROL PANEL OR NAC EXTENDER PANEL(S) AS REQUIRED. STUB 3/4" CONDUIT FROM DEVICE TO VOID ABOVE CEILING. PROVIDE NAC EXTENDER PANELS (QUANTITY AS REQUIRED) IN LOCATIONS INDICATED AND CIRCUITING AS REQUIRED FOR A COMPLETE INSTALLATION. CIRCUIT THE FIRE ALARM NOTIFICATION AND INITIATION DEVICES PER THE ELECTRICAL SPECIFICATIONS. FURNISH AND INSTALL ALL APPURTENANCES AND PROGRAMMING REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. REFER TO ELECTRICAL FIRE ALARM SPECIFICATIONS FOR SYSTEM REQUIREMENTS AND SUBMITTAL PROCEDURES.
- CONTRACTOR SHALL COORDINATE WITH AN UNDERGROUND LOCATING SERVICE PRIOR TO COMMENCING WORK. SEE CIVIL DRAWINGS FOR ADDITIONAL SITE INFORMATION. COORDINATE WITH OTHER SITE DISCIPLINES. SITE LIGHTING AND UTILITY EQUIPMENT SHOWN IN APPROXIMATE LOCATION. COORDINATE EXACT LOCATION WITH CIVIL DRAWINGS, PROPERTY LINES, AND UTILITY COMPANIES PRIOR TO ROUGH-IN. REFER TO POLE BASE DETAIL FOR SITE LIGHTING POLE BASE REQUIREMENTS. ROUTE CONDUITS IN COMMON TRENCH WHERE POSSIBLE REFER TO TRENCHING DETAIL.
- THE ELECTRICAL DEMOLITION DRAWING(S) PROVIDED ARE INTENDED TO ASSIST THE ELECTRICAL CONTRACTOR IN ESTABLISHING AREAS REQUIRING DISCONNECTION, REMOVAL, OR RELOCATION OF ELECTRICAL EQUIPMENT, OUTLETS, WIRING, DEVICES, FIXTURES, ETC. AND MAY NOT INDICATE ALL DEVICES OR THE FULL EXTENT OF DEMOLITION AND RECONNECTION WHICH MAY BE REQUIRED. THE ELECTRICAL CONTRACTOR SHALL VISIT THE JOB SITE AND THOROUGHLY EXAMINE ALL REQUIRED DEMOLITION WORK AND INCLUDE ALL LABOR AND INCIDENTALS THAT WILL BE NECESSARY TO PERFORM DEMOLITION RECONNECTION AND TEMPORARY POWER CONNECTIONS IN THE BID.
- ALL ELECTRICAL DEVICES AND WALLS INDICATED ON THE ELECTRICAL DEMOLITION DRAWING(S) ARE TO REMAIN UNLESS OTHERWISE NOTED.

COMMUNICATIONS

- JUNCTION BOX FOR FUTURE TELEPHONE/DATA OUTLET. MOUNT AT 18" A.F.F. UNO. PROVIDE SINGLE-GANG MUD RING WITH BLANK COVER PLATE. PROVIDE 1" CONDUIT TO NEAREST ACCESSIBLE CEILING
- TELEPHONE/DATA OUTLET. MOUNT AT 18" A.F.F. UNO. PROVIDE 1" CONDUIT TO NEAREST ACCESSIBLE CEILING. INSTALL QUANTITY OF DATA (#D) AND TELEPHONE (#T) CABLES INDICATED TO THE NEAREST DATA RACK. PROVIDE (2) DATA CABLES IF A CABLE QUANTITY IS NOT
- FLOOR MOUNTED BOX FOR FUTURE TELEPHONE/DATA OUTLET. JUNCTION BOX WITH SINGLE-GANG MUD RING. PROVIDE 1" CONDUIT TO NEAREST ACCESSIBLE CEILING SPACE. PROVIDE BLANK COVER
- FLOOR MOUNTED TELEPHONE/DATA OUTLET. PROVIDE 1" CONDUIT TO NEAREST ACCESSIBLE CEILING. INSTALL QUANTITY OF DATA (#D) AND TELEPHONE (#T) CABLES INDICATED TO THE NEAREST DATA RÀCK. PROVIDE (2) DATA CABLES IF A CABLE QUANTITY IS NOT INDICATED.
- CEILING MOUNTED SPEAKER WITH BACKBOX
- WALL MOUNTED SPEAKER, WITH BACKBOX +80" UNO
- TELEPHONE TERMINAL BOARD

NOTE:	THIS IS A STANDARD LIST OF COMMONLY USED ELECTRICAL SYMBOLS. SOME OF THE SYMBOLS SHOWN MAY NOT HAVE BEEN USED IN THIS DRAWING PACKAGE.

	ELECTRICAL SHEET INDEX
SHEET NUMBER	SHEET NAME
E00	ELECTRICAL COVER SHEET
E01	LIGHTING COMPLIANCE
E11	ELECTRICAL SITE PLAN
E21	ELECTRICAL DEMOLITION FLOOR PLANS
E31	LIGHTING AND MECHANICAL POWER FLOOR PLANS
E41	POWER AND SPECIAL SYSTEMS FLOOR PLANS
E51	ELECTRICAL LEVEL 2 AND ROOF PLANS
E60	ELECTRICAL DETAILS
E70	ELECTRICAL DETAILS AND SCHEDULES

ELECTRICAL

ABBREVIATIONS

AFG ABOVE FINISHED GRADE

CB CIRCUIT BREAKER

CKT CIRCUIT

DÈMO DEMOLITION

DTT DOUBLE TWIN TUB

FÀĆP FIRE ALARM CONTROL PANEL

HIGH PRESSURE SODIUM

IG ISOLATED GROUND
IPCO IDAHO POWER COMPANY

LCP LIGHTING CONTROL PANE

MAIN LUGS ONLY
MODULAR METERING CENTER
METAL HALIDE
MAIN SWITCH BOARD

NATIONAL ELECTRICAL CODE

NORMALLY CLOSED

NOT IN CONTRACT

NIGHT LIGHT

OH OVERHEAD
OS OCCUPANCY SENSOR

PC PHOTO-CONTROL
PVC POLYVINYL CHLORIDE

P POLES

PWR POWER

REC RECEPTACLE
(R) RELOCATED

SF SQUARE FEET

TRT TRIPLE TUBE

VA VOLT-AMPERE

INSTALLED/

INSTALL

TBD TO BE DETERMINED
TDR TIME DELAY RELAY

TOE KICK

TAMPER RESISTAN

TSP TWISTED SHIELDED PAIR

UNDERCABINET UNDERGROUND U.N.O. UNLESS NOTED OTHERWISE

WG WIRE GUARD
WP WEATHER PROOF/NEMA 3R WIRE GUARD

PROVIDED/ PROVIDE AND INSTALL / PROVIDED AND

THIS IS A STANDARD LIST OF COMMONLY USED

ELECTRICAL ABBREVIATIONS. SOME OF THE

ABBREVIATIONS SHOWN ABOVE MAY NOT BE

USED IN THIS DRAWING PACKAGE.

PROVIDE BY | INSTALLED BY / PROVIDE AND INSTALL

TTB TELEPHONE TERMINAL BOARD
(TYP.) TYPICAL

NORMALLY OPEN

J-BOX JUNCTION BOX

KA KILOAMP KVA KILO VOLT-AMP

HVAC HEATING, VENTILATION, & AIR CONDITIONING

CF COMPACT FLUORESCENT

AMPS INTERRUPTING CAPACITY
AMP TRIP

ATS AUTOMATIC TRANSFER SWITCH AWG AMERICAN WIRE GAUGE

MUSGROVE ENGINEERING, P.A 234 S. Whisperwood Way Boise, ID 83709 208.384.0585 Idaho Falls, ID 83402 208.523.2862







PERMIT SET

PROJECT 04-11-24 DRAWN CHECKED

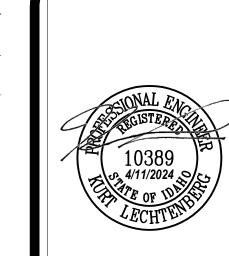
REVISED

SHEET TITLE

ELECTRICAL COVER SHEET

SHEET





PERMIT

PROJECT DRAWN

REVISED

SHEET

ORIGINAL SHEET SIZE 24" x 36"

▲ COM*check* Software Version 4.1.5.5 Interior Lighting Compliance Certificate

Project Information

Energy Code: 2018 IECC Project Title: ITD Training Addition Project Type: Addition

Allowed Interior Lighting Power

Construction Site: Owner/Agent: 8150 W Chinden Blvd CSHOA Garden City, ID 200 Broad St Boise, ID 83702 (208) 343-4635

Designer/Contractor: Musgrove Engineering 234 S Whisperwood Way Boise, ID 83709 208-384-0585

Area Category Floor Area **Allowed Watts** (B X C) (ft2) Watts / ft2 1-Office 1022 0.79 1022 Total Allowed Watts = **Proposed Interior Lighting Power** D Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast Lamps/ # of Fixture (C X D) Fixture Fixtures Watt.

1-Office LED 1: Other: Total Proposed Watts = Interior Lighting PASSES: Design 49% better than code

Interior Lighting Compliance Statement Compliance Statement: The proposed interior lighting design 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 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist. Angelo Neglia - Electrical Designer

Project Title: ITD Training Addition Data filename: P:\Files\2024\24078\CALCS\ELEC\24078 Electrical_Compliance.cck

Report date: 04/11/24 Page 1 of 8

COM*check* Software Version 4.1.5.5

Exterior Lighting Compliance Certificate

Project Information

Energy Code: 2018 IECC ITD Training Addition Project Title: Project Type: Exterior Lighting Zone 2 (Neighborhood business district (LZ2))

Construction Site: Owner/Agent: 8150 W Chinden Blvd CSHQA Garden City, ID

Musgrove Engineering 200 Broad St 234 S Whisperwood Way Boise, ID 83702 Boise, ID 83709 (208) 343-4635 208-384-0585

Designer/Contractor:

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts / Unit	D Tradable Wattage	E Allowed Watts (B X C)
Parking area	14400 ft2	0.04	Yes	576
Valkway < 10 feet wide	117 ft of	0.5	Yes	58
Pedestrian and vehicular entrances and exits	6 ft of door	14	Yes	84
		Total Tradab	le Watts (a) =	718
		Total All	owed Watts =	718
	Total All	owed Supplement	al 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.	(C X D)
Parking area (14400 ft2): Tradable Wattage LED 1: PL1: Other:	1	2	111	222
Walkway < 10 feet wide (117 ft of walkway length): Tradable Wattage LED 2: WP1: Other:	1	2	11	22
Pedestrian and vehicular entrances and exits (6 ft of door width): Tradable Wattage LED 2: WP1: Other:	1	2	11	22
	Total Tra	dable Propos	sed Watts =	266

Exterior Lighting PASSES: Design 76% better than code

Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting design 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 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Angelo Neglia - Electrical Designer Name - Title

Project Title: ITD Training Addition Data filename: P:\Files\2024\24078\CALCS\ELEC\24078 Electrical_Compliance.cck

Report date: 04/11/24 Page 2 of 8

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

- A. <u>AS-BUILT DRAWINGS</u> DRAWINGS SHALL INCLUDE THE LOCATION AND PERFORMANCE DATA OF ALL PIECES OF MECHANICAL EQUIPMENT.
- B. <u>OPERATING AND MAINTENANCE MANUALS</u>- 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
 - NAME AND ADDRESS AND PHONE NUMBER OF OF AT LEAST ONE (1) SERVICE PROVIDED.
 - 4. 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
 - 5. A NARRATIVE ON HOW EACH LIGHTING SYSTEM IN INTENDED TO OPERATE, INCLUDING RECOMMENDED SETPOINTS.

C. <u>LIGHTING SYSTEM FUNCTIONAL TESTING REQUIREMENTS</u>

FUNCTIONAL TESTING - ALL AUTOMATIC LIGHTING CONTROL SYSTEM SHALL BE FULLY TESTED TO ENSURE THE CONTROL HARDWARE AND SOFTWARE ARE CALIBRATED, ADJUSTED, P[ROGRAMMED, 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:

- 1. CONFIRM THAT THE PLACEMENT, SENSITIVITY AND TIME-OUT ADJUSTMENTS FOR OCCUPANT SENSORS YIELD ACCEPTABLE PERFORMANCE.
- 2. CONFIRM THAT THE TIME SWITCHES AND PROGRAMMABLE SCHEDULE CONTROLS ARE PROGRAMMED TO TURN THE LIGHTS OFF. 3. 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.
- FINAL LIGHTING SYSTEM FUNCTIONAL REPORT- A REPORT OF TEST PROCEDURES AND RESULTS IDENTIFIED AS THE "FINAL LIGHTING CONTROL
 - 1. LIST OF FUNCTIONAL TESTS USED DURING THE COMMISSIONING PROCESS ON EACH PIECE OF EQUIPMENT.

REPORT" SHALL BE DELIVERED TO THE BUILDING OWNER. THE REPORT SHALL INCLUDE THE FOLLOWING:

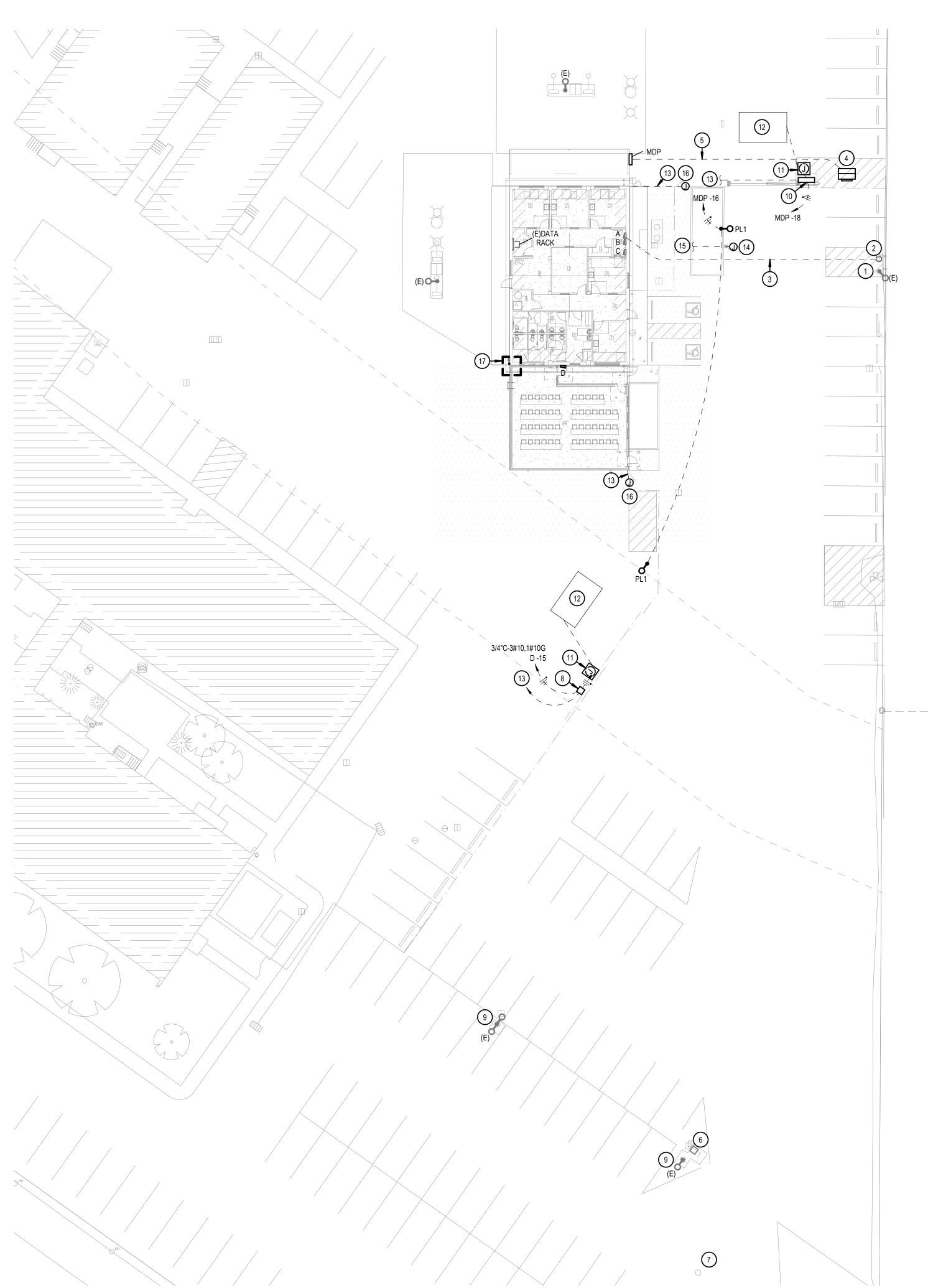
- RESULTS OF ALL FUNCTIONAL TESTS ON ALL PIECES OF EQUIPMENT.
- 3. LIST OF DEFICIENCIES FOUND AND CORRESPONDING CORRECTIVE MEASURES EITHER IMPLEMENTED OR PROPOSED ON EACH PIECE OF
- 4. LIST OF EQUIPMENT NOT ABLE TO BE FUNCTIONALLY TESTED DUE TO CURRENT CLIMATE CONDITIONS. THESE PIECES OF EQUIPMENT WILL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

SET

04-11-24 CHECKED

SHEET TITLE

LIGHTING COMPLIANCE





KEYED NOTES:

SYMBOL USED FOR CALLOUT

MUSGROVE ENGINEERING, P.A. 234 S. Whisperwood Way Boise, ID 83709 208.384.0585 645 West 25th Street Idaho Falls, ID 83402 208.523.2862 www.musgrovepa.com

Project No. 24-078

- 1. APPROXIMATE LOCATION OF EXISTING IDAHO POWER POLE AND EXISTING OVERHEAD 240/120V, 3-PHASE HIGH-LEG DELTA TRANSFORMER SHOWN FOR REFERENCE. RE:ONE-LINE DIAGRAMS.
- 2. APPROXIMATE LOCATION OF EXISTING IDAHO POWER POLE WITH METER. COORDINATE REMOVAL WITH IDAHO POWER AND PROJECT PHASING. RE:ONE-LINE DIAGRAMS
- 3. APPROXIMIATE ROUTE OF EXISTING UNDERGROUND SECONDARY BETWEEN THE EXISTING METER AND EXISTING PANEL 'A'. REMOVE CONDUIT AND CONDUCTORS BACK TO SOURCE. COORDINATE REMOVAL WITH IDAHO POWER AND PROJECT PHASING. RE:ONE-LINE
- 4. NEW PAD MOUNTED TRANSFORMER, PAD AND METER BY IDAHO POWER. RE: ONE-LINE DIAGRAM.
- 5. UNDERGROUND SECONDARY. RE: ONE-LINE DIAGRAM
- 6. APPROXIMATE LOCATION OF EXISTING GATE CONTROLLER. EXISTING GATE, GATE CONTROLLER, AND DETECTION LOOP TO BE REMOVED AND RELOCATED TO NEW FENCE LINE LOCATION. REFER TO CIVIL SITE DEMOLITION PLAN AND SITE IMPROVEMENT PLAN. REMOVE POWER/DATA CONDUIT AND CONDUCTORS BACK TO NEW FENCE LINE AND RE-ROUTE TO SOURCE.
- 7. APPROXIMATE LOCATION OF EXISTING GATE CARD READER AND PEDESTAL TO BE REMOVED. REMOVE BASE, PEDESTAL/CARD READER AND RETURN TO OWNER. REMOVE CONDUCTORS BACK TO SOURCE OR NEAREST UPSTREAM DEVICE THAT IS TO REMAIN. REMOVE CONDUIT BACK TO NEW FENCE LINE, EXTEND TO NEW LOCATION AND STUB TO 12" ABOVE GRADE AND CAP/LABEL OPPOSITE TERMINATION END LOCATION FOR FUTURE USE.
- 8. APPROXIMATE LOCATION OF REOLOCATED GATE OPERATOR. REFER TO CIVIL SITE IMPROVEMENT PLAN. GATE TO BE RE-CONFIGURED WITH DETECTION LOOP FOR EXIT ONLY AND INSTALLED BY GATE HARDWARE CONTRACTOR. COORDINATE INSTALLATION REQUIREMENTS WITH GATE INSTALLER PRIOR TO ROUGH-IN.
- 9. APPROOXIMATE LOCATION OF EXISTING PARKING LIGHT AND POLE TO REMAIN.
- 10. CONNECTION FOR NEW PIVOT GATE OPERATOR. REFER TO CIVIL SITE IMPROVEMENT PLAN. GATE TO BE CONFIGURED WITH DETECTION LOOP FOR EXIT AND CARD READER WITH DETECTION LOOP FOR ENTRANCE. COORDINATE INSTALLATION REQUIREMENTS WITH GATE INSTALLER PRIOR TO ROUGH-IN.
- 11. PROVIDE 3/4" CONDUIT TO IN-GRADE JUNCTION BOX FOR LOOP SENSOR WIRING. COORDINATE LOCATION OF IN-GRADE JUNCTION BOX WITH GATE INSTALLER PRIOR TO ROUGH-IN. PROVIDE ALL CONDUIT AND JUNCTION BOXES FOR A COMPLETE INSTALLATION.
- 12. DETECTION LOOP SENSOR AREA. COORDINATE INSTALLATION WITH GATE INSTALLER AND PROVIDE ALL HARDWARE TO MAKE
- 13. <varies>
- 14. PROVIDE JUNCTION BOX FOR CARD READER MOUNTED ON WEATHER HOOD MOUNTED ON POLE. COORDINATE INSTALLATION WITH GATE INSTALLER AND POLE PROVIDER.
- 15. PROVIDE 3/4" CONDUIT FOR LOW VOLTAGE ACCESS CONTROL WIRING FROM CARD READER/PEDESTAL AND ROUTE TO DATA ROOM LOCATED IN SERVER ROOM 109. COORDINATE INSTALLATION WITH GATE INSTALLER AND PROVIDE ALL HARDWARE AND LOW VOLTAGE CABLING FOR A COMPLETE SYSTEM.
- 16. JUNCTION BOX FOR MAN GATE ACCESS CONTROLS CONTROLS. COORDINATE INSTALLATION WITH MAN GATE INSTALLER AND PROVIDE ALL HARDWARE AND LOW VOLTAGE CABLING FOR A COMPLETE SYSTEM.
- 17. REFER TO SPECIAL SYSTEMS PLAN FOR RELOCATION OF EXISTING FIBER/DATA.



PERMIT SET

PROJECT 04-11-24 DRAWN CHECKED Checker

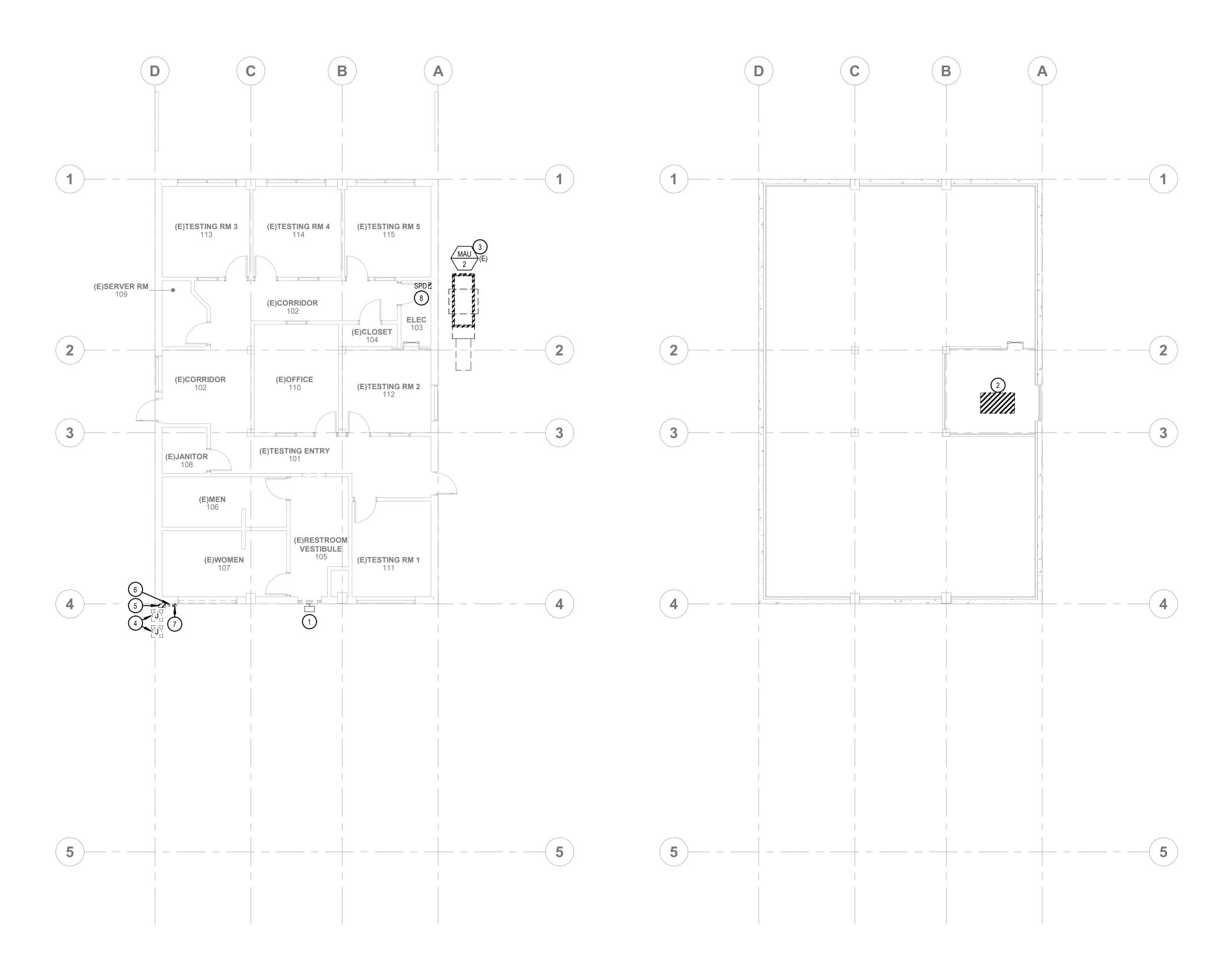
REVISED

SHEET TITLE **ELECTRICAL SITE** PLAN

SHEET

ORIGINAL SHEET SIZE 24" x 36"

1 ELECTRICAL SITE PLAN
1" = 20'-0"









234 S. Whisperwood Way Boise, ID 83709 208.384.0585 645 West 25th Street Idaho Falls, ID 83402 208.523.2862 Project No. 24-078

KEYED NOTES: (#) SYMBOL USED FOR CALLOUT

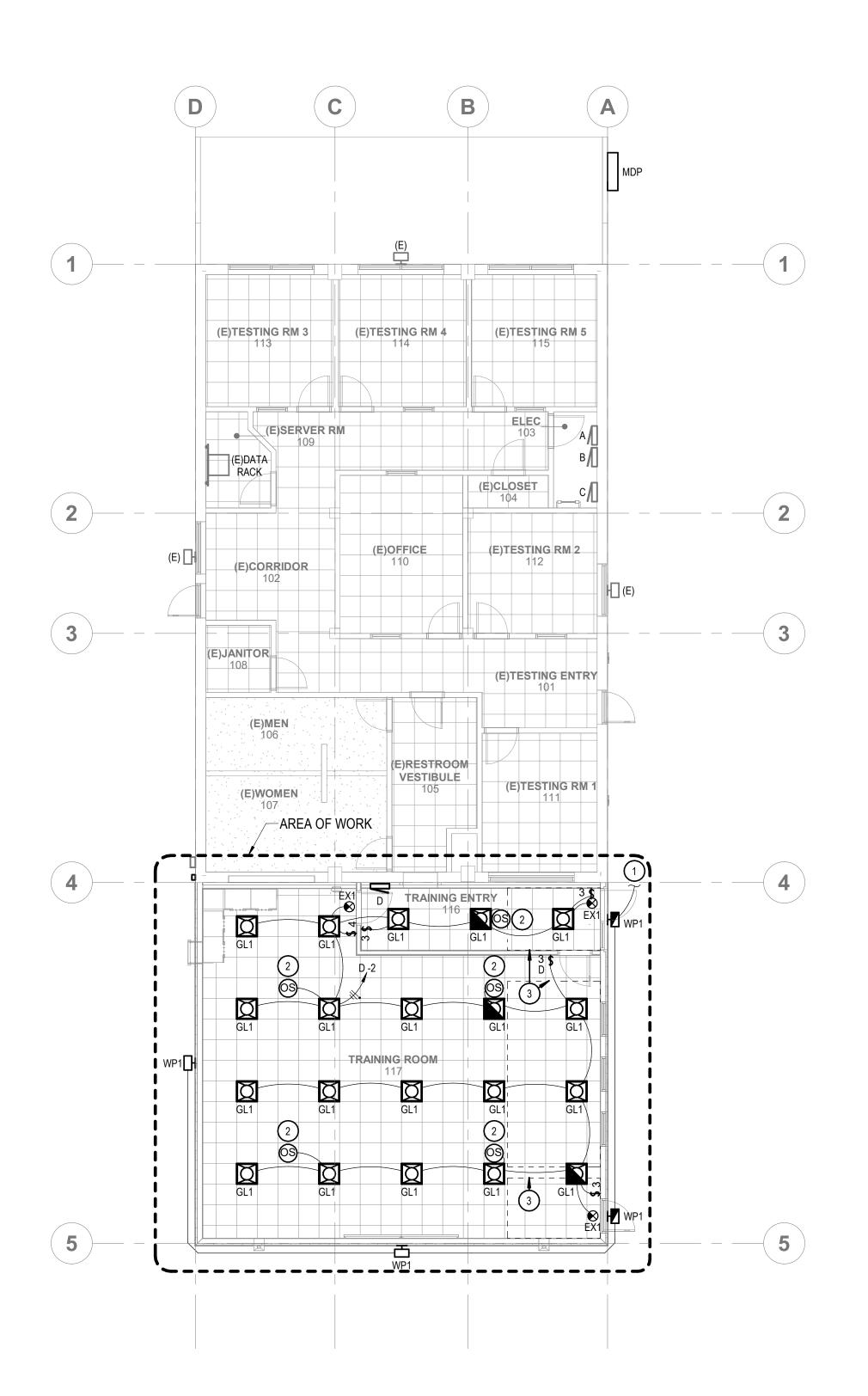
- 1. EXISTING LIGHT FIXTURE TO BE REMOVED. REMOVE ALL CONDUIT, CONDUCTORS, AND JUNCTION BOXES BACK TO SOURCE OR NEAREST UPSTREAM DEVICE THAT IS TO REMAIN, MAINTAIN CONTINUITY TO ALL DOWNSTREAM DEVICES THAT ARE TO REMAIN.
- 2. EXISTING MECHANICAL EQUIPMENT TO BE REMOVED. REMOVE ALL CONDUIT, CONDUCTORS, 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 MECHANICAL EQUIPMENT TO BE RETROFITTED WITH ADDITIONAL COOLING COIL. REMOVE ANY CONDUIT AND CONDUCTORS AS REQUIRED TO FACILITATE INTERCONNECT WITH NEW COOLING COIL AND MAINTAIN CONTINUITY TO ALL DOWNSTREAM CONNECTIONS THAT ARE TO REMAIN.
- 4. EXISTING IN-GRADE JUNCTION BOXES FOR FIBER/DATA TO BE REMOVED AND REPLACED WITH NEW IN-GRADE JUNCTION BOX AT NEW LOCATION TO FACILITATE BUILDING ADDITION. RETAIN EXISTING CABLING TO BE RE-FEED TO DATA RACK. RE: SPECIAL SYSTEM PLAN.
- 5. EXISTING WALL MOUNTED PULL BOX FOR FIBER/DATA TO BE REMOVED AND RELOCATED ON EXISTING BUILDING TO FACILITATE BUILDING ADDITION. RETAIN EXISTING CABLING TO BE RE-FED TO DATA RACK. RE: SPECIAL SYSTEMS PLAN.
- 6. EXISTING CONDUIT FOR FIBER/DATA TO BE REMOVED AND RELOCATED AT NEW LOCATION TO FACILITATE BUILDING ADDITION. MOVE AND EXTEND ANY INTERIOR PULL BOX(ES) AND/OR CONDUIT AS REQUIRED. RETAIN EXISTING CABLING TO BE RE-FED AT NEW LOCATION.
- 7. EXISTING TELEPHONE RISER BOX TO BE REMOVED AND REPLACED WITH APPROPRIATE CONDUIT AND/OR TELEPHONE PULL BOX IN NEW LOCATION TO FACILITATE BUILDING ADDITION. COORDINATE REMOVAL AND RELOCATION WITH UTILITY SERVICE. RETAIN EXISTING CABLING TO BE RE-FED AT NEW LOCATION. RE: SPECIAL SYSTEMS PLAN.
- 8. EXISTING SURGE PROTECTION 'SPD' FOR EXISTING PANEL 'A' TO BE REMOVED. REMOVE ALL CONDUIT, CONDUCTORS, AND JUNCTION BOXES BACK TO SOURCE. REMOVE EXISTING BREAKERS ANS REPLACE WITH 120VOLT, 1-PHASE, 20AMP SPARE BREAKERS.

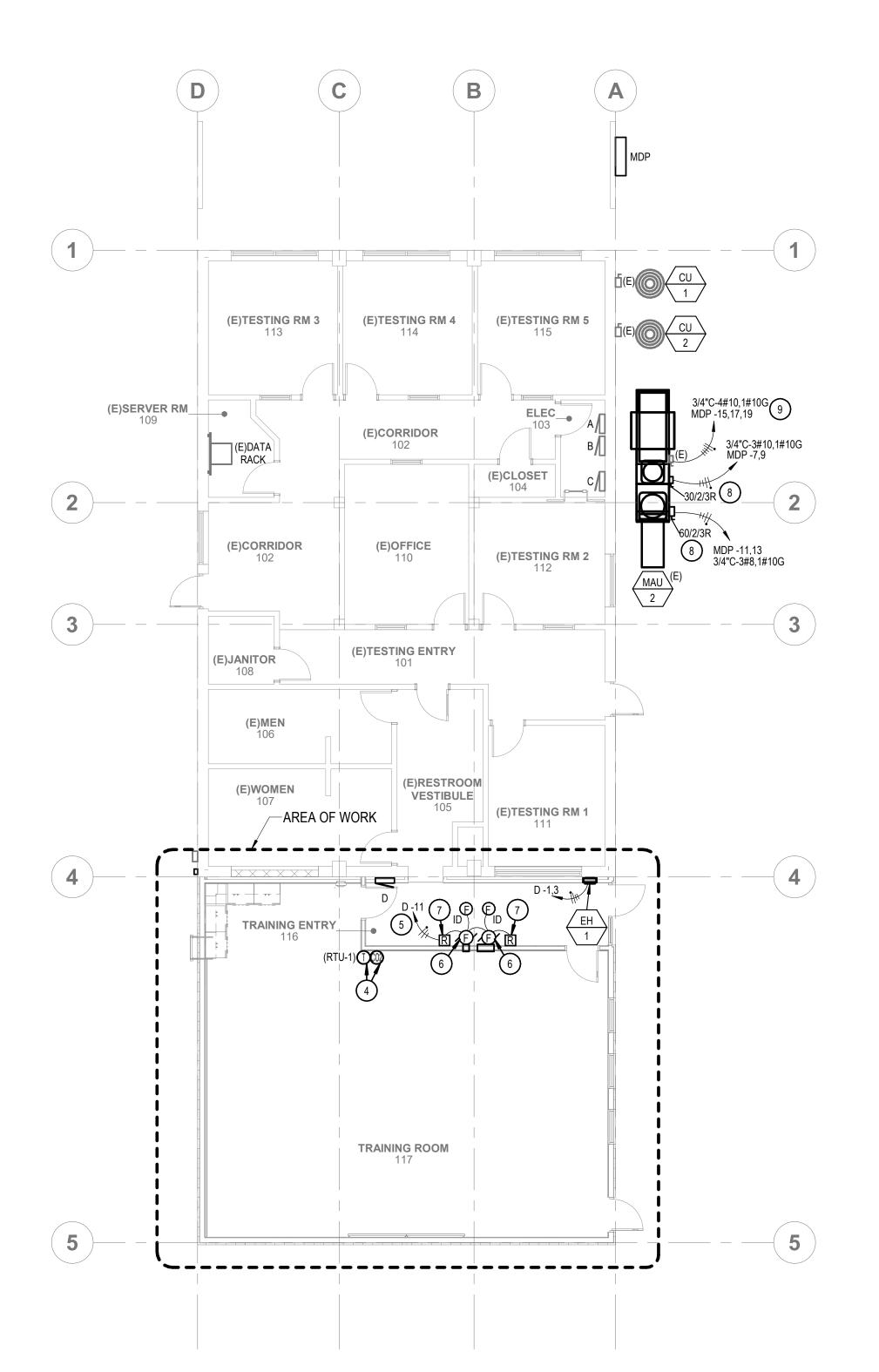


PERMIT SET

CHECKED DRAWN Checker

ELECTRICAL DEMOLITION FLOOR **PLANS**











MUSGROVE ENGINEERING, P.A. 234 S. Whisperwood Way Boise, ID 83709 208.384.0585 645 West 25th Street Idaho Falls, ID 83402 208.523.2862 www.musgrovepa.com Project No. 24-078

KEYED NOTES: # SYMBOL USED FOR CALLOUT

- 1. EXTEND CONDUIT AND CONDUCTORS FROM EXISTING EXTERIOR LIGHTING CIRCUIT TO NEW LIGHTING FIXTURES. PROVIDE UNSWITCHED LEG FOR EMERGENCY FIXTURES.
- 2. NON-DIGITAL, DUAL TECHNOLOGY OCCUPANCY SENSOR. CONNECT SUCH THAT DETECTION OF OCCUPANCY BY ANY SENSOR IN THE ROOM WILL ACTIVATE ALL LIGHTING IN THE ROOM AND TURN OFF THE LIGHTING AFTER 20 MINUTES OF NO OCCUPANCY DETECTION. LOCATE SENSORS PER MANUFACTURER'S RECOMMENDATION TO ENSURE MOTION IS DETECTED WITHIN 2FT OF ENTERING ROOM. PROVIDE AND INSTALL ALL POWER PACKS AND RELAYS AS REQUIRED.
- 3. DAYLIGHT ZONE PERIMETER PER 2018 IECC, SHOWN FOR
- 4. 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 AND QUANTITY OF CONDUCTOR(S) WITH MECHANICAL CONTRACTOR. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR.
- 5. PROVIDE RED-HANDLED, LOCKOUT TYPE CIRCUIT BREAKER IN PANEL AT POSITION INDICATED.
- 6. PROVIDE CONNECTION TO SMOKE FIRE DAMPER. PROVIDE IN-DUCT DETECTOR AND RELAY AS REQUIRED. COORDINATE IN-DUCT DETECTOR INSTALLATION WITH MECHANICAL CONTRACTOR.
- 7. MULTI-VOLTAGE CONTROL RELAY PROVIDED FOR FIRE / SMOKE DAMPER CONTROL. INSTALLING CONTRACTOR SHALL FIELD VERIFY EXACT MOUNTING, CIRCUITING AND PROGRAMMING REQUIREMENTS. FIELD VERIFY EXACT LOCATION, QUANTITY AND ALL LOCATIONS WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.
- 8. FIELD COORDINATE DISCONNECT AND MECHANICAL UNIT LOCATION WITH MECHANICAL CONTRACTOR TO MAINTAIN ALL REQUIRED CLEARANCES.
- 9. RE-FEED EXISTING MECHANICAL UNIT FROM THE NEW PANEL

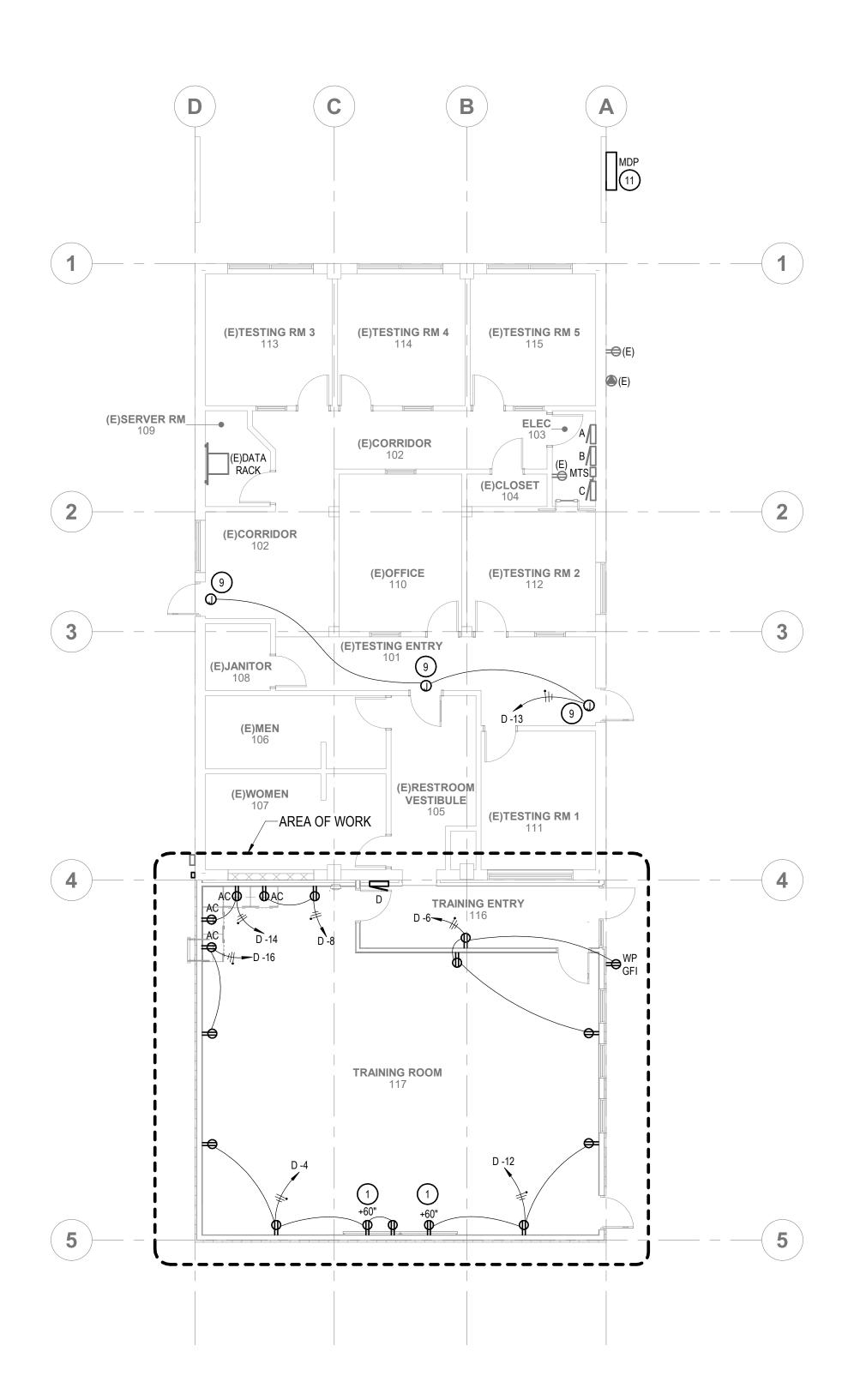


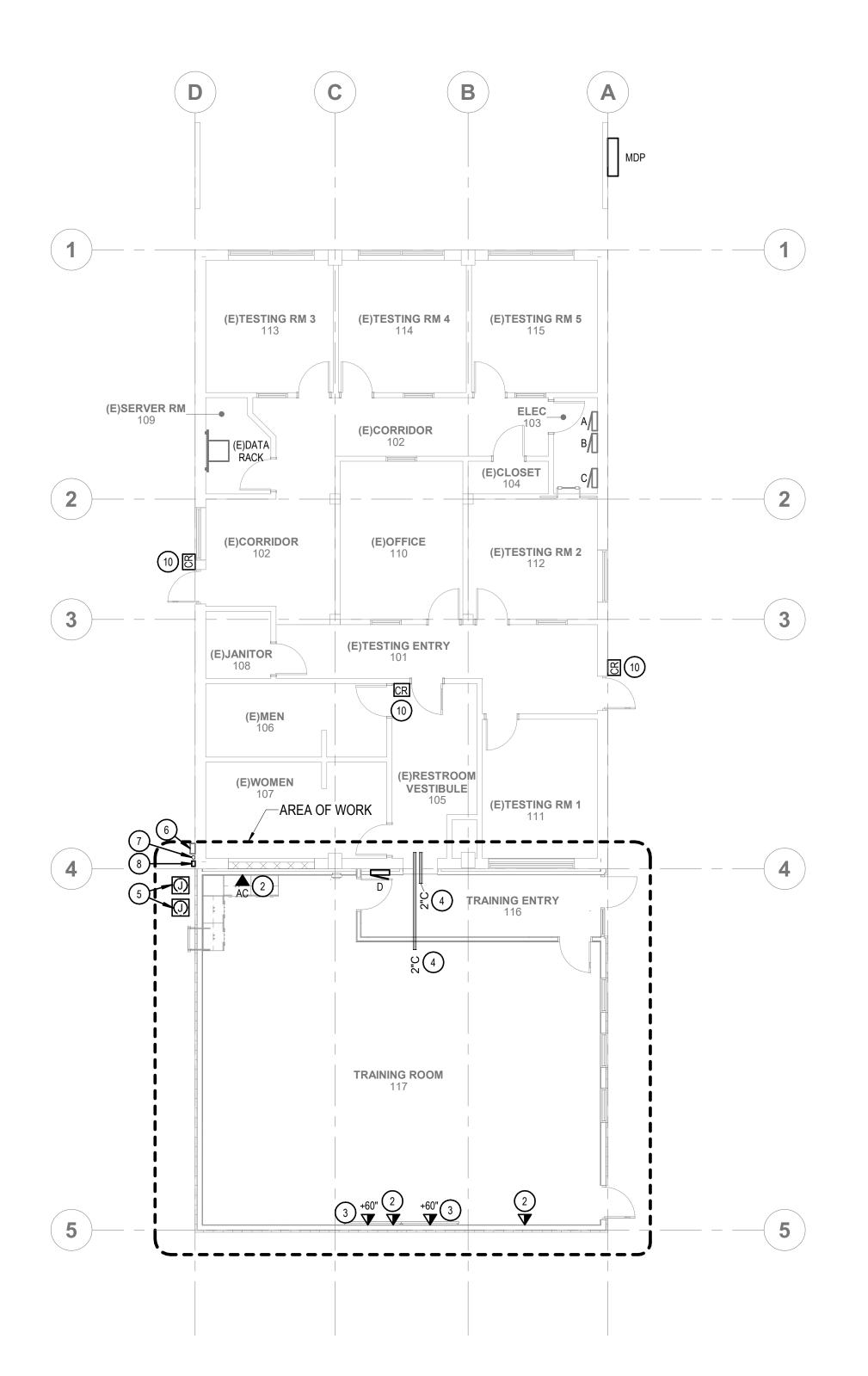
PERMIT SET

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REVISED

LIGHTING AND MECHANICAL POWER FLOOR PLANS





1 MECHANICAL NEW WORK FLOOR PLAN - LEVEL 1

2 SPECIAL SYSTEMS FLOOR PLAN - LEVEL 1



MUSGROVE ENGINEERING, P.A. 234 S. Whisperwood Way Boise, ID 83709 208.384.0585 645 West 25th Street Idaho Falls, ID 83402 208.523.2862 Project No. 24-078

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

- RECEPTACLE FOR TV. COORDINATE HEIGHT AND LOCATION WITH OWNER PRIOR TO ROUGH-IN.
- 2. STUB 3/4" CONDUIT TO ABOVE ACCESSIBLE CEILING. PROVIDE DATA CABLING, QUANTITY AS INDICATED, AND ROUTE TO EXISTING DATA RACK LOCATED IN SERVER ROOM 109.
- 3. JUNCTION BOX FOR TV. COORDINATE HEIGHT AND LOCATION WITH OWNER PRIOR TO ROUGH-IN. STUB 1-1/4" CONDUIT TO ABOVE ACCESSIBLE CEILING.
- 4. STUB 2" CONDUIT TO ABOVE ACCESSIBLE CEILING.
- 5. PROVIDE 12"x18" IN-GRADE JUNCTION BOX WITH TRAFFIC RATED LID FOR EXISTING FIBER/DATA. REROUTE EXISTING UNDERGROUND CONDUIT AS REQUIRED TO FACILITATE NEW BOX LOCATION TO NEW LOCATION TO ACCOMODATE BUILDING ADDITION. ROUTE UNDERGROUND CONDUIT/CABLING TO RELOCATED WALL MOUNTED PULL BOX AND/OR CONDUIT ON EXISTING BUILDING.
- 6. RELOCATED EXISTING FIBER/DATA PULL BOX. MOVE PULL BOX TO NEW LOCATION AND MOVE, INTERCEPT, AND EXTEND ANY INTERIOR JUNCTION BOXES AND/OR CONDUIT AS REQUIRED. RE-FEED FIBER/DATA TO EXISTING LOCATION AT DATA RACK LOCATED IN SERVER ROOM 109.
- 7. RELOCATE EXISTING DATA CONDUIT. INTERCEPT AND EXTEND CONDUIT TO NEW LOCATION AND MOVE, INTERCEPT, AND EXTEND ANY INTERIOR JUNCTION BOXES AND/OR CONDUIT AS REQUIRED. RE-FEED DATA TO EXISTING LOCATION.
- 8. NEW EXTERIOR RATED NEMA3R WALL MOUNTED PULL BOX FOR EXISTING PHONE CABLING. INTERCEPT AND EXTEND EXISTING UNDERGROUD TELEPHONE CABLING THROUGH NEW WALL MOUNTED PULL BOX LOCATION AND RE-FEED TO EXISTING LOCATION. PROVIDE IN-GRADE JUNCTION BOX(ES) AND UNDERGROUND CONDUIT AS REQUIRED. COORDINATE REMOVAL AND RELOCATION WITH UTILITY SERVICE.
- 9. PROVIDE JUNCTION BOX ABOVE THE ACCESSIBLE CEILING FOR DOOR ACCESS CONTROLS POWER. PROVIDE BOXES AND CONDUIT FOR FUTURE SECURITY CONDUCTORS. VERIFY ALL REQUIREMENTS WITH DOOR SECURITY EQUIPMENT PROVIDER PRIOR TO ROUGH-IN. RE: ACCESS CONTROLS DETAIL
- 10. PROVIDE JUNCTION BOX FOR OWNER PROVIDED CARD READER AT 46"AFG. PROVIDE 3/4" CONDUIT FROM BOX TO ABOVE NEAREST ACCESSIBLE CEILING. ACCESS CONTROL CABLING TO BE FURNISHED AND INSTALLED BY ACCESS CONTROLS CONTRACTOR. RE:ACCESS CONTROL DETAIL.
- 11. MOUNT NEW DISTRIBUTION PANEL ON THE EXTERIOR OF THE EXISTING STORAGE AREA WALL. PROVIDE BRACING AS REQUIRED. ROUTE CONDUITS OVER-HEAD FROM THE DISTRIBUTION PANEL TO THE NEW AND EXISTING PANELS AND EQUIPMENT. RE:NEW ONE-LINE DIAGRAM



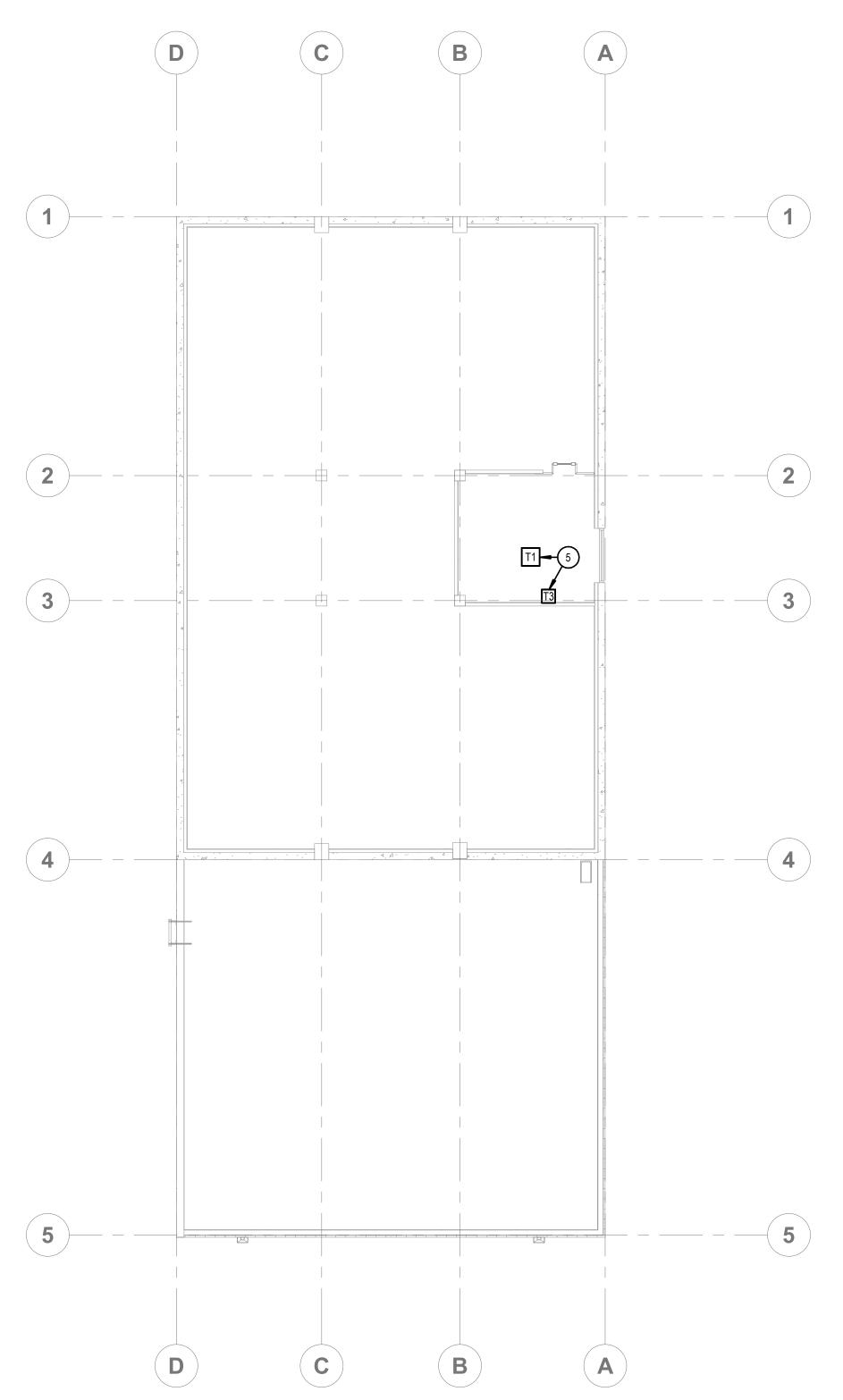
PERMIT SET

PROJECT 04-11-24 DRAWN CHECKED Checker

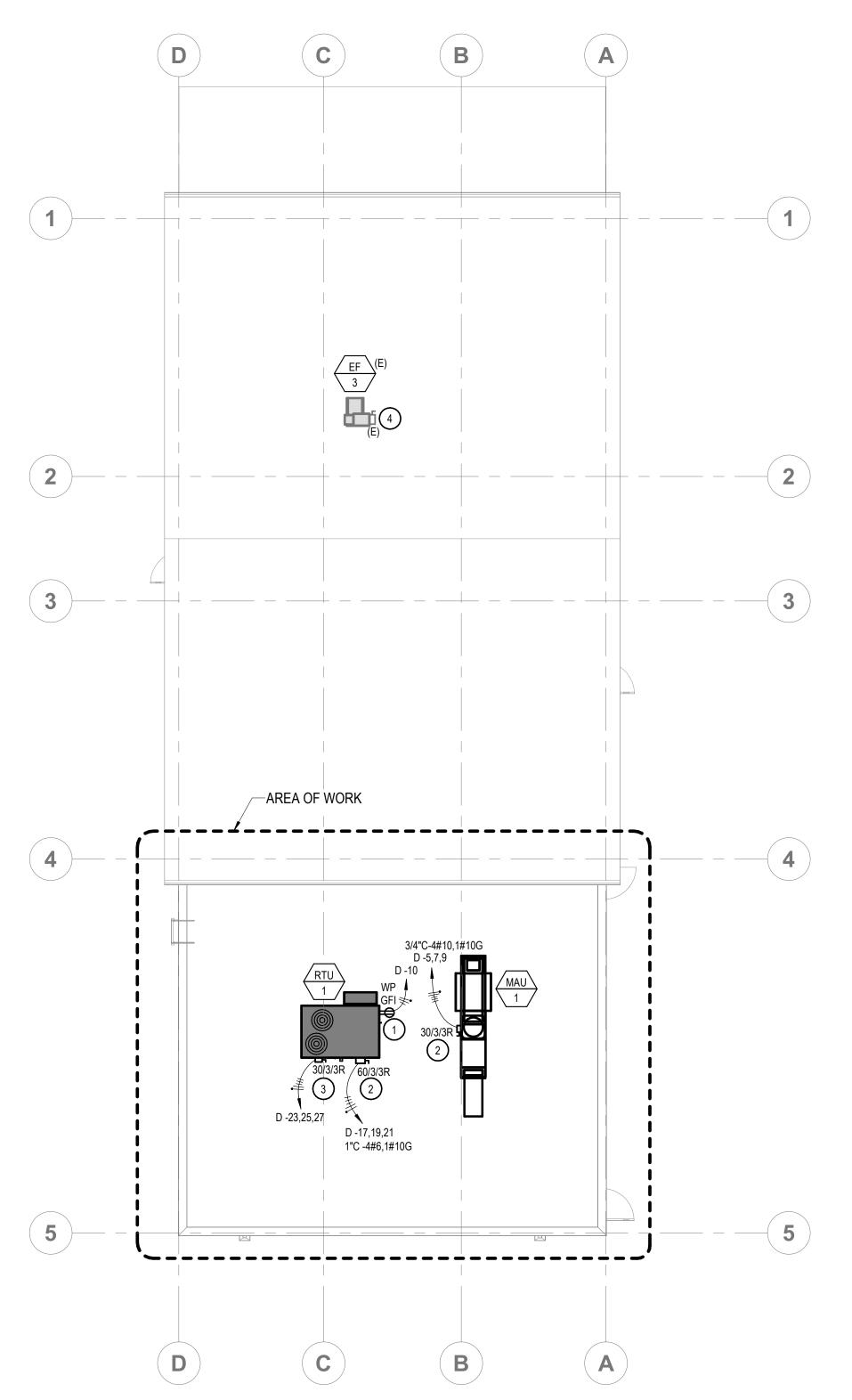
REVISED

SHEET TITLE

POWER AND SPECIAL SYSTEMS FLOOR **PLANS**











MUSGROVE ENGINEERING, P.A. 234 S. Whisperwood Way Boise, ID 83709 208.384.0585 645 West 25th Street Idaho Falls, ID 83402 208.523.2862 www.musgrovepa.com Project No. 24-078

- **KEYED NOTES:** # SYMBOL USED FOR CALLOUT
- MOUNT RECEPTACLE ON RIGID CONDUIT 12" ABOVE ROOF DECK OR ON MECHANICAL UNIT WHERE APPLICABLE.
- FIELD COORDINATE DISCONNECT AND MECHANICAL UNIT LOCATION WITH MECHANICAL CONTRACTOR TO MAINTAIN ALL REQUIRED CLEARANCES.
- 3. DISCONNECT AS INDICATED FOR SEPARATE POWERED EXHAUST CONNECTION. COORDINATE LOCATION AND MOUNTING WITH MECHANICAL CONTRACTOR TO MAINTAIN ALL REQUIRED CLEARANCES. LABEL DISCONNECT AS "POWERED EXHAUST DISCONNECT".
- 4. EXISTING DISCONNECT FOR EXHAUST FAN 'EF-3' FED FROM EXISTING VFD LOCATED IN ELECTRICAL ROOM 103. REFER TO ONE-LINE DIAGRAMS TO RE-FEED 240VOLT, 3-PHASE CIRCUIT FOR 'EF-3'.
- 5. TRANSFORMERS AND THE ASSOCIATED DISCONNECTS LOCATED ON MEZZANINE. COORDINATE LOCATION AND MOUNTING WITH ON-SITE CONDITIONS AND AVAILABLE SPACE. RE:NEW-ONE-LINE DIAGRAM

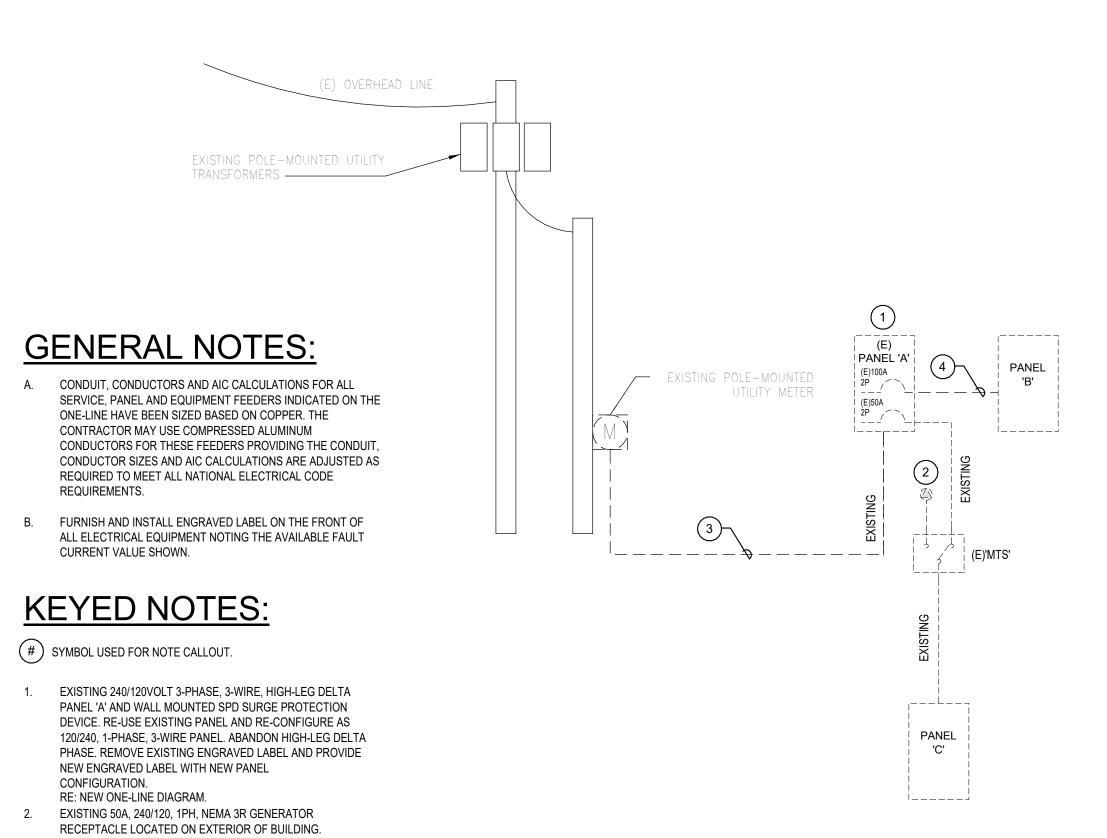


PERMIT SET

04-11-24 CHECKED DRAWN Checker REVISED

SHEET TITLE

ELECTRICAL LEVEL 2 AND ROOF PLANS



1 DEMOLITION ONE-LINE DIAGRAM

REMOVE METER, METER BASE, AND UNDERGROUND SERVICE TO EXISTING PANEL 'A'. COORDINATE REMOVAL WITH IDAHO

POWER AND PROJECT PHASING PRIOR TO BEGINNING WORK.

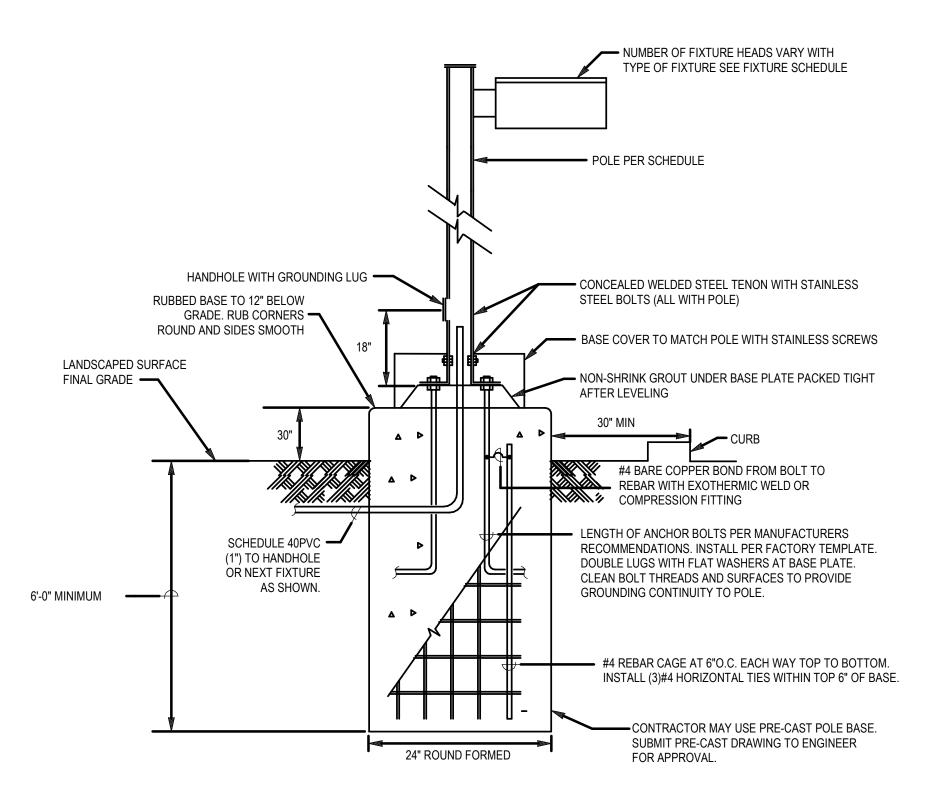
REMOVE ALL CONDUIT, CONDUCTORS, AND JUNCTION BOXES

3-POLE BREAKER AND REPLACE WITH 120VOLT, 20AMP SPARES.

REMOVE ALL EXISTING CONDUIT, CONDUCTORS AND

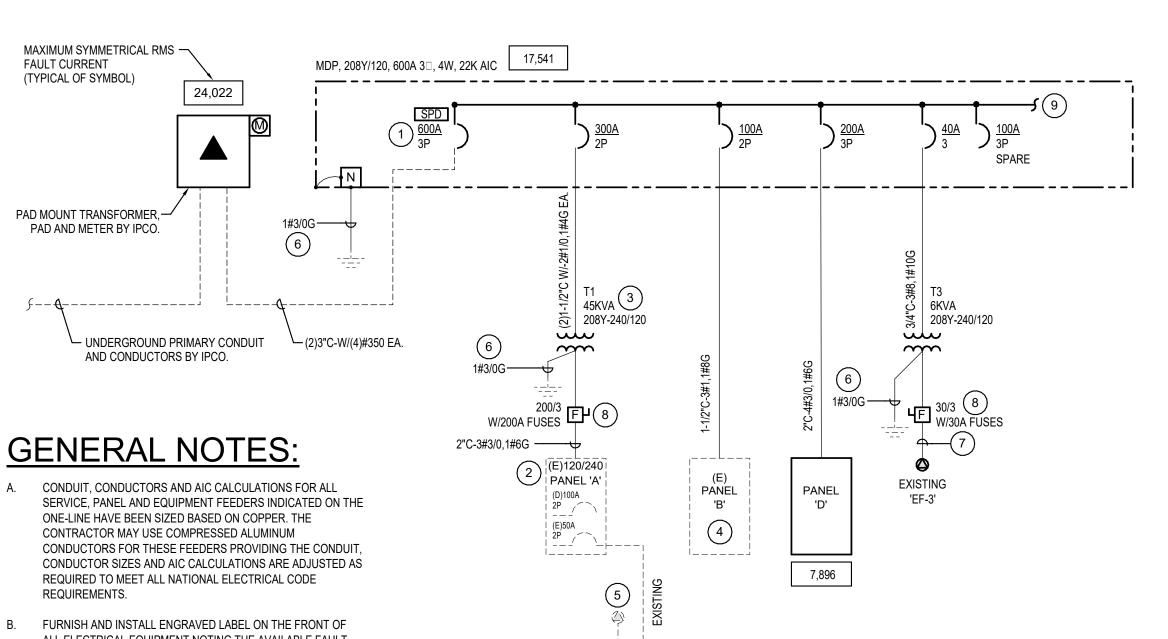
JUNCTION BOXES BACK TO SOURCE. REMOVE EXISTING

BACK TO SOURCE.



DETAIL NOTES:

- INCREASE THE SPECIFIED HEIGHT OF THE POLE BY 2'-0" TO ENSURE UNIFORM FIXTURE MOUNTIAN HEIGHT WHERE THE 6" BASE IS USED.
- LEAST 30" FROM PARKING OR DRIVE AREAS.



(E)'MTS'

(E)



-FINISHED GRADE

MUSGROVE ENGINEERING, P.A 234 S. Whisperwood Way Boise, ID 83709 208.384.0585 645 West 25th Street Idaho Falls, ID 83402 208.523.2862 www.musgrovepa.comProject No. 24-078





COMPACTED FILL IN 6" LIFTS

SAND BEDDING AND BACKFILL

BY CONTRACTOR

OR PER SPECIFICATIONS

PATCH TO MATCH —

CONDITIONS

EXISTING FINISH

6" RED MARKER -

OF TRENCH

CONDUITS -

SYMBOL USED FOR NOTE CALLOUT.

IF MULTIPLE CONDUITS SHARE TRENCH, PROVIDE SPACING BETWEEN CONDUITS.

PROVIDE ZIP TIES, AND TIE ALL CONDUITS TOGETHER TO ENSURE STABILITY.

ELECTRICAL FEEDERS, COMMUNICATIONS: 24" MINIMUM

UNDERGROUND SECONDARY: 30" MINIMUM

UNDERGROUND PRIMARY: 42" MINIMUM

3 SITE TRENCHING DETAIL

BURIAL DEPTH TO BE VERIFIED WITH UTILITIES AND AUTHORITY HAVING JURISDICTION:

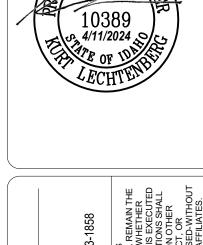
TAPE, RUN LENGTH

DETAIL NOTES:

ASPHALT,

LAWN, ETC -

CONCRETE,



PERMIT SET

PROJECT DATE 04-11-24 DRAWN CHECKED Checker REVISED

SHEET TITLE

SHEET

ELECTRICAL DETAILS

ORIGINAL SHEET SIZE 24" x 36"

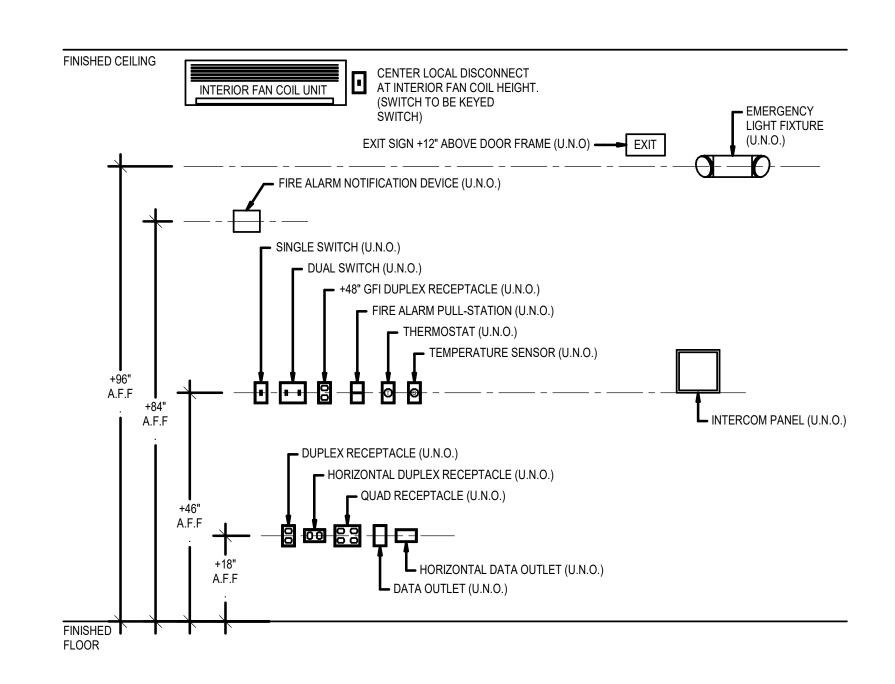
ALL ELECTRICAL EQUIPMENT NOTING THE AVAILABLE FAULT CURRENT VALUE SHOWN.

KEYED NOTES:

SYMBOL USED FOR NOTE CALLOUT.

- 1. NEW 800A, 208Y/120VOLT, 3-PHASE, 4-WIRE, NEMA 3R PANEL BOARD CONSTRUCTION WITH SURGE PROTECTION INTEGRAL
- 2. EXISTING 120/240 VOLT, 3-PHASE HIGH-LEG DELTA PANEL TO BE RE-CONFIGURED FOR 120/240 VOLT, 1-PHASE, 3-WIRE PANEL. HIGH-LEG DELTA PHASE TO BE ABANDONED, BREAK EXISTING NEUTRAL BONDING. PROVIDE NEW-ENGRAVED LABEL WITH NEW PANEL CONFIGURATION.
- NEW 208VOLT 1-PHASE TO 240/120 VOLT, 1-PHASE, 3-WIRE TRANSFORMER TO BACK FEED THE EXISTING 240/120 VOLT PANELS 'A' AND 'C' (VIA MANUAL TRANSFER SWITCH 'MTS).
- 4. REPLACE ENGRAVED LABELING ON PANEL 'B' TO INDICATED 120/208, 1-PHASE, 3-WIRE
- EXISTING 50A, 240/120, 1PH, NEMA 3R GENERATOR RECEPTACLE LOCATED ON EXTERIOR OF BUILDING.
- 6. EXTEND TO EXISTING BUILDING GROUNDING SYSTEM.
- INTERCEPT THE EXISTING CONDUCTORS SERVING THE EXISTING EXHAUST FAN AND RE-ROUTE TO PANEL 'MDP' VIA THE NEW TRANSFORMER.
- PROVIDE NEW FUSED DISCONNECT ADJACENT TO THE NEW TRANSFORMER.
- 9. REFER TO PANEL SCHEDULE FOR ADDITIONAL BREAKERS

2 NEW ONE-LINE DIAGRAM



DETAIL GENERAL NOTES: PROVIDE FRAMING AS REQUIRED.

5 STANDARD MOUNTING HEIGHTS

DETAIL NOTES:

- UNSWITCHED LINE VOLTAGE POWER FEED FROM LOCAL
- POWER/RELAY PACK RATED FOR UP TO 3 SENSORS AND 15A LINE VOLTAGE SWITCHING. PROVIDE QUANTITY AS REQUIRED FOR A COMPLETE INSTALLATION.

EMERGENCY

LIGHTING LOAD

- LOW VOLTAGE OCCUPANCY SENSOR, UP TO 3 PER POWER PACK. PROVIDE WITH ISOLATED NO/NC AUXILIARY CONTACTS FOR HVAC INTERLOCK. QUANTITY AS INDICATED ON PLANS. LOCATION PER THE MANUFACTURERS RECOMMENDATIONS.
- WALL MOUNTED LINE VOLTAGE SNAP SWITCH(ES). QUANTITY AND LOCATION AS INDICATED ON PLANS.
- LOW VOLTAGE POWER AND CONTROL CONDUCTORS AS REQUIRED FOR A COMPLETE INSTALLATION.
- LINE VOLTAGE SWITCHED LEG FROM RELAY PACK TO LOCAL WALL SWITCHES.
- LINE VOLTAGE SWITCHED LEG FROM SWITCHES TO LIGHTING
- SECOND SWITCH FOR DUAL LEVEL LIGHTING WHERE INDICATED ON PLANS.

6 OCCUPANCY SENSORS DETAIL

- PROTECTED AREA IMPLIES THE POLE IS INSTALLED AT
- 4 SITE LIGHTING POLE BASE DETAIL

				LIGH [*]	TING FIXTUR	E SCHEDULE		
TYPE MARK	DESCRIPTION	MOUNTING	WATTAGE	LAMP	MANUFACTURER	MODEL	OR EQUAL BY	NOTES
EX1	THERMOPLASTIC EXIT SIGN WITH SELF DIAGNOSTICS, GREEN LETTERING, AND BATTERY PACK	CEILING MOUNTED	0.7	LED	LITHONIA	LQM-S-W-3-G-MVOLT-ELN-SD	SURE-LITE / COMPASS	1
GL1	2X2, VOLUMETRIC RECESSED LIGHTING	CEILING GRID	26	LED, 3300 LUMENS, 4000K	LITHONIA	2BLT2-33L-ADP-GZ1-LP840 (PROVIDE WITH 'EL14L' OPTION FOR EMERGENCY FIXTURES)	LIGHTOLIER/METAL UX/H.E. WILLIAMS	1
PL1	EXTERIOR POLE LIGHT WITH TYPE 3 DISTRIBUTION AND BI-LEVEL MOTION/AMBIENT SENSOR	POLE MOUNTED +20'-0" AFG	111	LED, 15,657 LUMENS, 3000K	LITHONIA	RSX2 LED-P2-30K-R3-MVOLT-SPA-NLTAIR2 PIRH-DDBXD (POLE:SSS-20-4C-DM19AS-DDBXD)	COOPER / HUBBELL	1
WP1	EXTERIOR LED WALL PACK WITH PHOTOCELL	WALL MOUNTED; +11'-0" UNO	11	LED, 1500 LUMENS, 4000K	LITHONIA	WST LED-P1-40K-VF-120-PE-DDBXD (PROVIDE WITH 'E7WC' OPTION FOR EMERGENCY FIXTURES)	COOPER / HUBBELL	1
			1	1		ı	1	

LIGHTING FIXTURE SCHEDULE NOTES

20 A 1

Total Load:

Total Amps:

19200 VA

160 A

35 REC-TESTING RM3 COUNTER

37 (D)MAU-2, EXTERIOR

SERVICE ENTRANCE RATED

39 --

41 --

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:	Α													
	Location:			Volts	Volts: 120/240 Delta High-Leg A.I.C. Rating: EXISTING										
	Supply From:						Phases		0 0				_	e: MBR	
	Mounting:	RECES	SSED				Wires	: 4				Mains	Rating	ı: 225 A	
	Enclosure:											MCB	Rating	j: 225 A	
Note	es:														
	STING 120/240VOLT, 3-PHASE HIGH- GH-LEG DELTA PHASE TO BE ABAN									1-PHASE, 3	-WIRE.	.RE:ON	IE-LINI	E DIAGRAMS.	
		СКТ											СКТ		
CKT	Circuit Description	Note	Trip	Poles		A		В	(Poles	Trip	Note	Circuit Description	CKT
1															2
3	BLANK - NOT USABLE	1		1							1		1	BLANK - NOT USABLE	4
5	IGNITION OVEN-TESTING RM5		30 A	2					2760 VA	4800 VA	2	50 A		PANEL 'C'	6
7					2760 VA	4800 VA									8
9	BLANK - NOT USABLE	1		1							1		1	BLANK - NOT USABLE	10
11	REC-TESTING RM5 COUNTER		20 A	1					180 VA	0 VA	2	20 A		MAU-1, MEZZANINE	12
	REC-TESTING RM4		20 A	1	720 VA	0 VA									14
15	BLANK - NOT USABLE	1		1							1		1	BLANK - NOT USABLE	16
17	IGNITION OVEN-TESTING RM4		30 A	2					2760 VA	3360 VA	2	50 A		CONDENSING	18
19					2760 VA	3360 VA									20
21	(D)EF-3, ROOF (VIA VFD)	2	30 A	3			0 VA				1		1	BLANK - NOT USABLE	22
23									0 VA	2040 VA	2	35 A		CONDENSING UNIT-MSC SPACES	24
25					0 VA	2040 VA									26
27	BLANK - NOT USABLE	1	20 A	1			0 VA				1		1	BLANK - NOT USABLE	28
29	IGNITION OVEN-TESTING RM3		30 A	2					2760 VA	0 VA	3	30 A		SPD (PANEL A)	30
31					2760 VA	0 VA									32
33	BLANK - NOT USABLE	1		1				0 VA							34
	<u> </u>														

Branch Panel: MDP			
Location: EXTERIOR	Volts: 120/208 Wye	A.I.C. Rating: 22,000	
Supply From:	Phases: 3	Mains Type: MBR	
Mounting: SURFACE	Wires: 4	Mains Rating: 600 A	
Enclosure: Type 3R		MCB Rating: 600 A	

0 VA

0 A

0 VA

180 VA 0 VA 2 100 A 2 (D)PANEL 'B'

19440 VA

162 A

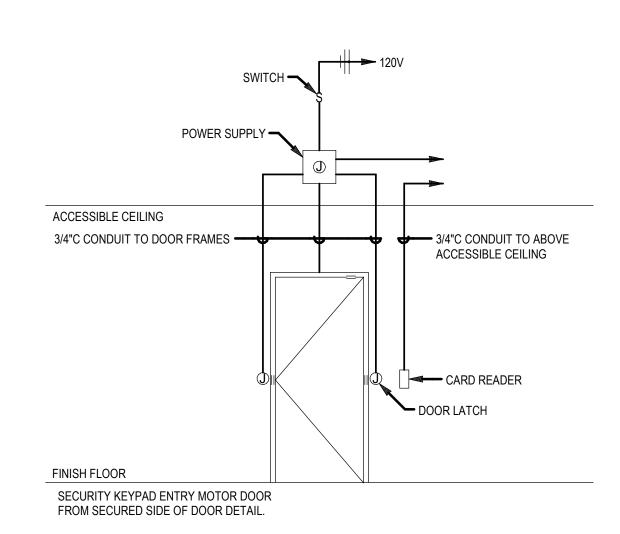
1 - 1 BLANK - NOT USABLE

0 VA 600 VA 1 20 A WATER HEATER, RECIRC. PUMP 42

СКТ	Circuit Description	CKT Note	Trip	Poles	1	A		В	(:	Poles	Trip	CKT Note	Circuit Description	СКТ
1	(N) PANEL 'D'		200 A	3	11729 VA	0 VA					3	100 A		Spare	2
3							10669 VA	0 VA							4
5									9852 VA	0 VA					6
7	CONDENSER 1 (MAU-2)		30 A	2	1883 VA	19200 VA					2	300 A		PANEL 'A' (VIA T1, MEZZANINE)	8
9							1883 VA	19440 VA							10
11	CONDENSER 2 (MAU-2)		40 A	2					2850 VA	7680 VA	2	100 A		PANEL 'B'	12
13					2850 VA	10740 VA									14
	(E) MAU-2		20 A	3			2328 VA	188 VA			1	20 A		LTS-EXTERIOR POLE	16
17									2328 VA	0 VA	1	20 A		PIVOT GATE OPERATOR	18
19					2328 VA	0 VA					1	20 A		Spare	20
21	EF-3, ROOF (VIA T3, MEZZANINE)		40 A	3			1920 VA	0 VA			1	20 A		Spare	22
23									1920 VA	0 VA	1	20 A		Spare	24
25					1920 VA	0 VA					1	20 A		Spare	26
27	Spare		20 A	1			0 VA	0 VA			1	20 A		Spare	28
29	Spare		20 A	1					0 VA	0 VA	1	20 A		Spare	30
31	Spare		20 A	1	0 VA	0 VA					1	20 A		Spare	32
33	Spare		20 A	1			0 VA	0 VA			1	20 A		Spare	34
35	Spare		20 A	1					0 VA	0 VA	1	20 A		Spare	36
37	Spare		20 A	1	0 VA	0 VA					1	20 A		Spare	38
39	Spare		20 A	1			0 VA	0 VA			1	20 A		Spare	40
41	Spare		20 A	1					0 VA	0 VA	1	20 A		Spare	42
		•	Total	Load:	5063	88 VA	3641	5 VA	2463	0 VA					
			Total A	Amps:	43	7 A	31	9 A	20	5 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel	Totals
HVAC	49599 VA	100.00%	49599 VA		
Lighting	710 VA	100.00%	710 VA	Total Conn. Load:	111681 VA
Other	0 VA	0.00%	0 VA	Total Est. Demand:	111681 VA
Power	1080 VA	100.00%	1080 VA	Total Conn. Current:	310 A
Receptacle	3240 VA	100.00%	3240 VA	Total Est. Demand Current:	310 A

Note : 1)GF	Location: Supply From: Mounting: Enclosure: s: CI FOR PERSONAL PROTECTION (5	MDP RECES Type 1	SED		QUIPMENT F	PROTECTIO	Phases: Wires:	4		E BREAKE		A.I.C. Ratir Mains Tyr Mains Ratir MCB Ratir	pe: MLO ng: 200 A	
СКТ	Circuit Description	CKT Note	Trip	Poles	,	A	E	3	C	;	Poles	CK [*]		СКТ
1	EH-1, TRAINING ENTRY 116		20 A	2	1000 VA	522 VA					1	20 A	LTS-TRAINING RM 117	2
3							1000 VA	720 VA			1	20 A	REC-TRAINING RM 117	4
5	MAU-1, ROOF		20 A	3					2232 VA	720 VA	1	20 A	REC-TRAINING ENTRY 116	6
7					2232 VA	360 VA					1	20 A	REC-TRAINING RM 117	8
9							2232 VA	180 VA			1	20 A	REC-ROOF (RTU-1)	10
11	SMOKE FIRE DAMPERS	3	20 A	1					0 VA	540 VA	1	20 A	REC-TRAINING RM 117	12
13	ACCESS CONTROLS POWER		20 A	1	1080 VA	360 VA					1	20 A	REC-TRAINING RM 117	14
15	GATE OPERATOR (EXIT ONLY)		20 A	1			0 VA	360 VA			1	20 A	REC-TRAINING RM 117	16
17	RTU-1, ROOF		50 A	3					4920 VA	0 VA	1	20 A	Spare	18
19					4920 VA	0 VA					1	20 A	Spare	20
21							4920 VA	0 VA			1	20 A	Spare	22
23	RTU-1, ROOF (POWER EXHAUST)		20 A	3					1440 VA	0 VA	1	20 A	Spare	24
25					1440 VA	0 VA					1	20 A	Spare	26
27							1440 VA	0 VA			1	20 A	Spare	28
29	Spare		20 A	1					0 VA	0 VA	1	20 A	Spare	30
31	Spare		20 A	1	0 VA	0 VA					1	20 A	Spare	32
33	Spare		20 A	1			0 VA	0 VA			1	20 A	Spare	34
35	Spare		20 A	1					0 VA	0 VA	1	20 A	Spare	36
37	Spare		20 A	1	0 VA	0 VA					1	20 A	Spare	38
39	Spare		20 A	1			0 VA	0 VA			1	20 A	Spare	40
41	Spare		20 A	1					0 VA	0 VA	1	20 A	Spare	42
				Load: Amps:	1172	9 VA	1066 90		9852 82			1		1

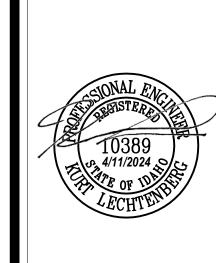


DETAIL GENERAL NOTES:

1. COORDINATE LOCATION AND CONNECTION REQUIREMENTS FOR ACCESS CONTROLS WITH ACCESS CONTROLS CONTRACTOR PRIOR TO ROUGH-IN

1 ACCESS CONTROLS DETAIL





PERMIT SET

PROJECT 04-11-24 DRAWN CHECKED Author Checker

REVISED

SHEET TITLE

ELECTRICAL DETAILS
AND SCHEDULES

SHEET