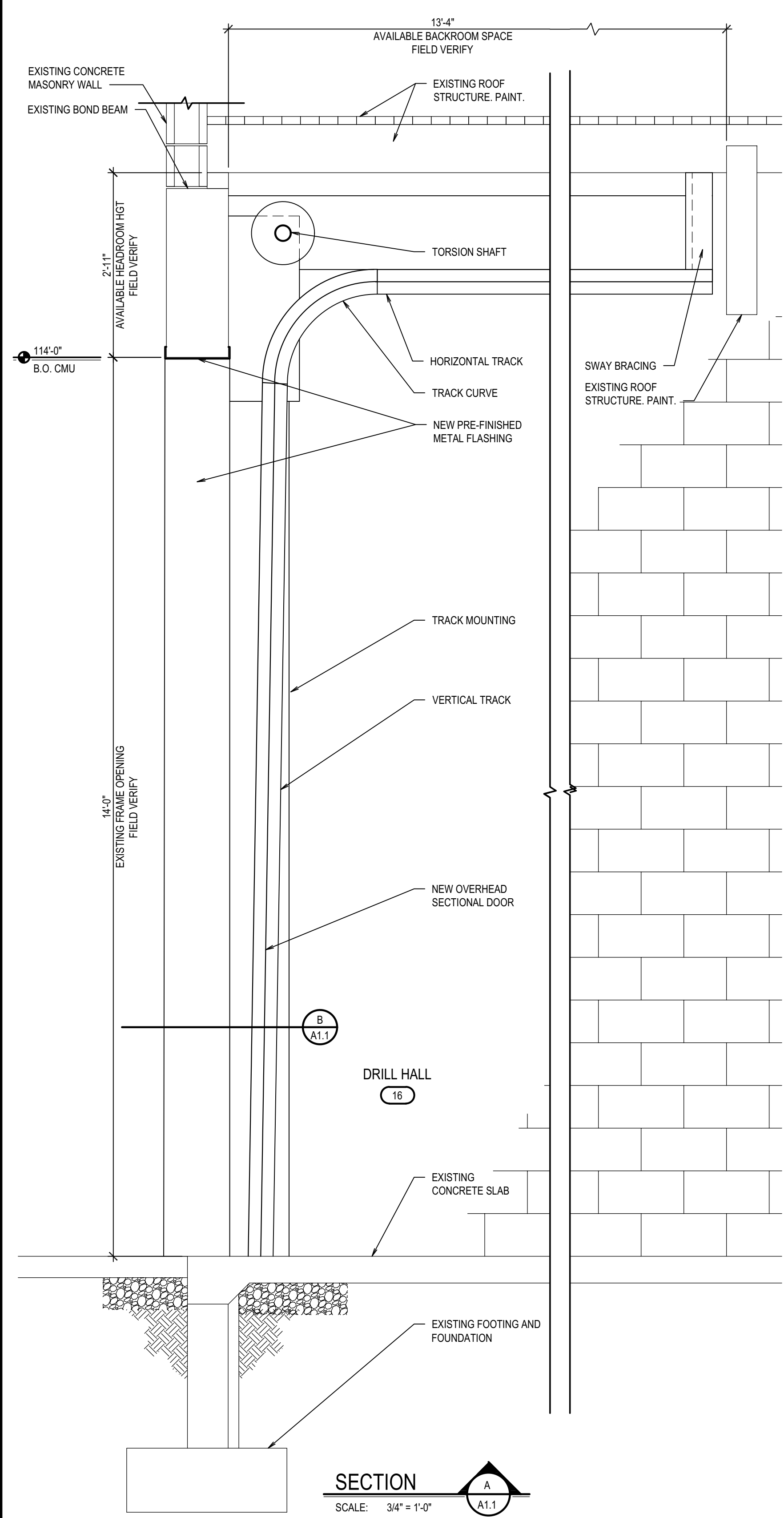


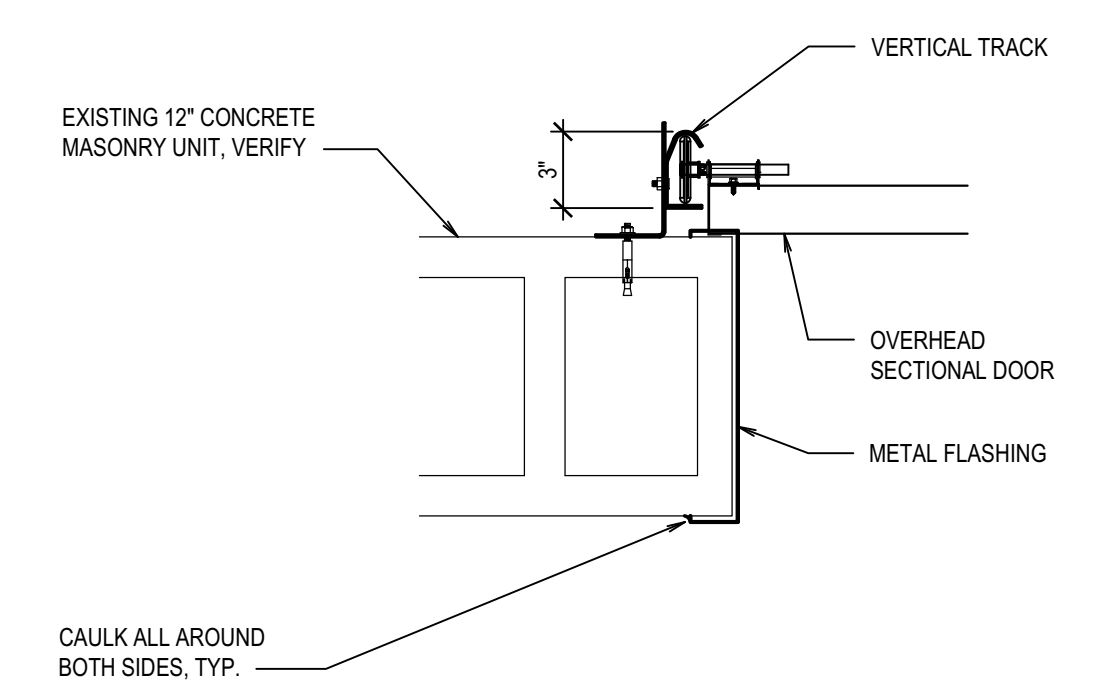




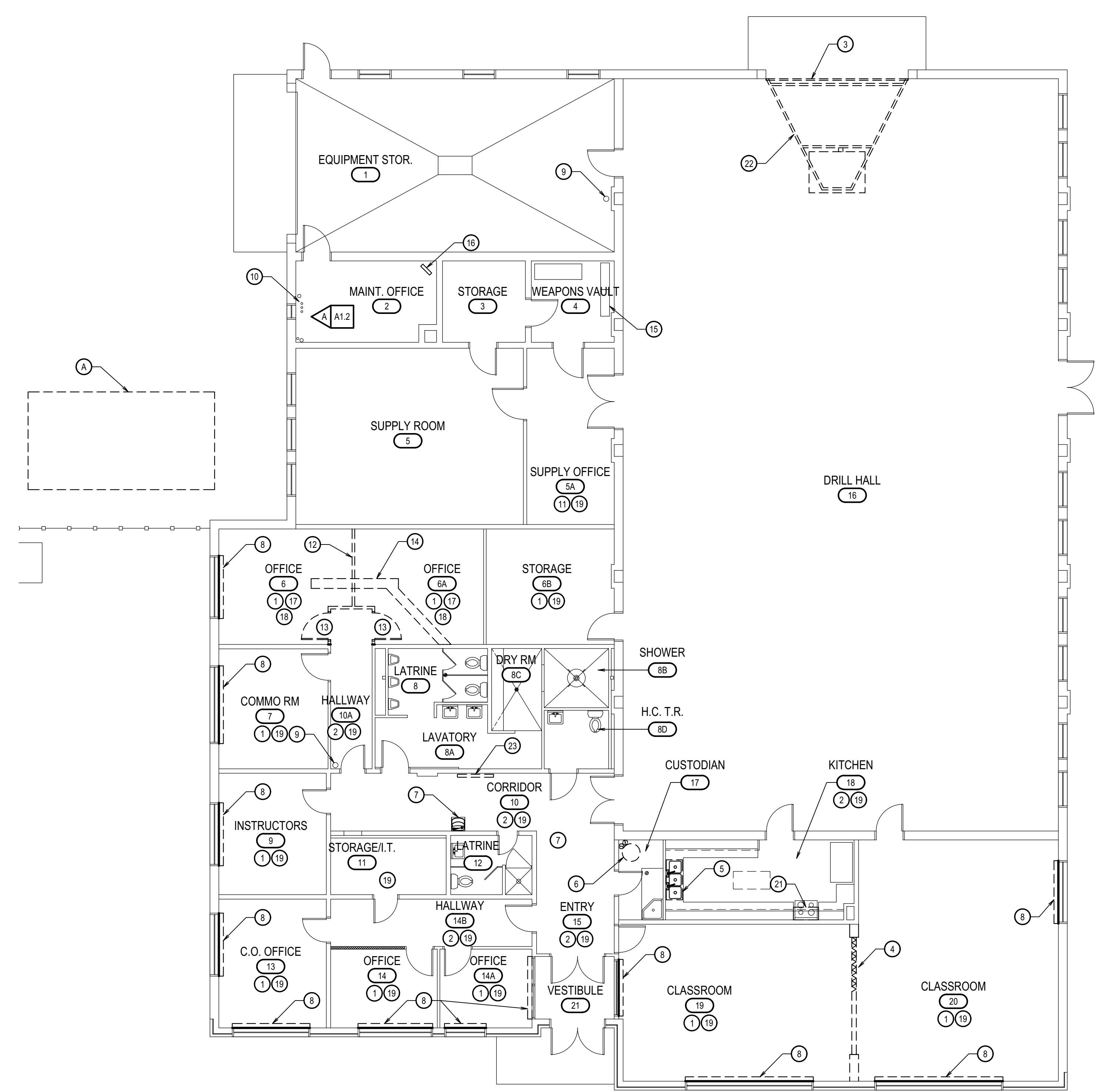
Approved  
 Statewide Safety  
 Building Department  
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**SECTION**  
SCALE: 3/4" = 1'-0"  
A1.1



**JAMB DETAIL**  
SCALE: 1 1/2" = 1'-0"  
A1.1



**DEMOLITION FLOOR PLAN**  
SCALE: 1/8" = 1'-0"  
N

**GENERAL NOTES**

1. GENERAL CONTRACTOR IS REQUIRED TO PATCH AND REPAIR (WHETHER SO NOTED OR NOT) ALL EXISTING SURFACE AREAS AS REQUIRED BY DEMOLITION AND/OR TO COORDINATE SUCH REPAIR WORK WITH SUB-CONTRACTORS.
2. PROTECT ALL EXISTING-TO REMAIN ITEMS (WHETHER SO NOTED OR NOT) AND PROTECT ITEMS TO BE REMOVED AND REINSTALLED. REPAIR/REPLACE THESE ITEMS IF DAMAGED DURING CONSTRUCTION.
3. ALL ITEMS NOTED TO BE REMOVED INCLUDING ALL DEMOLISHED CONSTRUCTION DEBRIS SHALL BE REMOVED FROM THE PROJECT SITE AND BE DISPOSED OF AS PER CURRENT CODES, LAWS AND REQUIREMENTS OF THE ENVIRONMENTAL PROTECTION AGENCY (EPA).
4. SAW CUT AND PATCH EXISTING CONCRETE FLOOR AS REQUIRED TO INSTALL NEW UNDER SLAB UTILITIES.
5. PROTECT EXISTING EXTERIOR CONCRETE / ASPHALT FROM DAMAGE DURING CONSTRUCTION. REPLACE DAMAGED MATERIALS TO MATCH EXISTING.
6. REFER TO MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION, COORDINATION AND DEMOLITION WORK.
7. CONTRACTOR TO MAINTAIN ACCESS TO LATRINE ROOM NO.8, H.C. TOILET ROOM NO.8D AND LATRINE ROOM NO. 12 AT ALL TIMES.
8. THE OWNER IS RESPONSIBLE FOR THE REMOVAL OF ALL WALL MOUNTED ITEMS INCLUDING BUT NOT LIMITED TO PICTURES, TV, WHITE BOARDS, FILE ORGANIZERS, DOOR DECALS, WINDOW BLINDS, DOOR SIGNAGE, TOILET ROOM ACCESSORIES ETC.

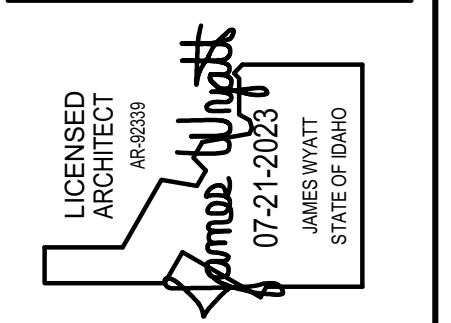
**KEYNOTES**

**BASE BID**

1. REMOVE CARPET, RUBBER BASE, AND ADHESIVES COMPLETE AND PREPARE FLOOR FOR NEW FLOOR FINISH
2. REMOVE EXISTING VINYL COMPOSITE TILES, RUBBER BASE, AND ADHESIVES COMPLETE AND PREPARE FLOOR FOR NEW FLOOR FINISH
3. REMOVE OVERHEAD DOOR
4. REMOVE FOLDING PARTITION COMPLETE, INCLUDING COLUMNS ON BOTH SIDES, BEAM ABOVE AND WALLS ON EACH SIDE.
5. REMOVE 3-COMPARTMENT SINK
6. REMOVE EXISTING WATER HEATER, SEE PLUMBING DRAWINGS
7. EXISTING DRINKING FOUNTAIN
8. THE OWNER IS RESPONSIBLE FOR REMOVING EXISTING WINDOW BLINDS. AFTER BLIND REMOVAL, THE CONTRACTOR IS RESPONSIBLE FOR PATCHING, REPAIRING AND PREPARING THE WALL TO RECEIVE NEW WINDOW BLINDS.
9. EXISTING FIRE EXTINGUISHER
10. EXISTING WATER RISER
11. PREPARE FLOOR FOR NEW FINISHES
12. REMOVE WALL TO EXTENT SHOWN
13. REMOVE DOOR AND FRAME COMPLETE. SAVE FOR RE-INSTALLATION IN NEW LOCATION
14. CUT CONCRETE SLAB FOR INSTALLATION OF ENTERTAINMENT BOXES
15. EXISTING GUN RACKS
16. REMOVE EXISTING ELECTRIC UNIT HEATER
17. REMOVE EXISTING CEILING SYSTEM AND LIGHT FIXTURES COMPLETE
18. REMOVE EXISTING CEILING DIFFUSERS AND STORE FOR RE-INSTALLATION, REMOVE CEILING REGISTER
19. REMOVE EXISTING LIGHT FIXTURES
20. EXISTING OVERHEAD DOOR TO BE SERVICED AND TO RECEIVE NEW GASKETS ALL AROUND.
21. REMOVE EXISTING OVER-THE-RANGE HOOD
22. REMOVE CEILING SUSPENDED BASKETBALL BACKSTOP COMPLETE
23. REMOVE EXISTING T.V. AND STORE IN SAFE LOCATION FOR RE-INSTALLATION IN NEW LOCATION

**ALTERNATE NO.1**

- A. PREPARE SITE FOR NEW CONCRETE PAD, VERIFY LOCATION WITH OWNER



**nwarchitects p.a.**  
 ARCHITECTURE / PLANNING / INTERIORS  
 990 JOHN ADAMS PARKWAY / P. O. BOX 2212 / IDAHO FALLS, IDAHO 83403-2212  
 (P) 208-522-8779 (F) 208-522-8785 (W) nwarchitects.com

DPW NO. 23-332  
**BLACKFOOT READINESS CENTER**  
 260 RICH LANE  
 BLACKFOOT, IDAHO 83221  
 DEMOLITION FLOOR PLAN

PROJECT: \_\_\_\_\_

REVISIONS:

NO.	DATE	DESCRIPTION

NW PROJECT NO.: 23004  
 DATE: SEPTEMBER 2023  
 DRAWN BY: KP  
 CHECKED BY: JHW

DRAWING NO.:

**A1.1**

















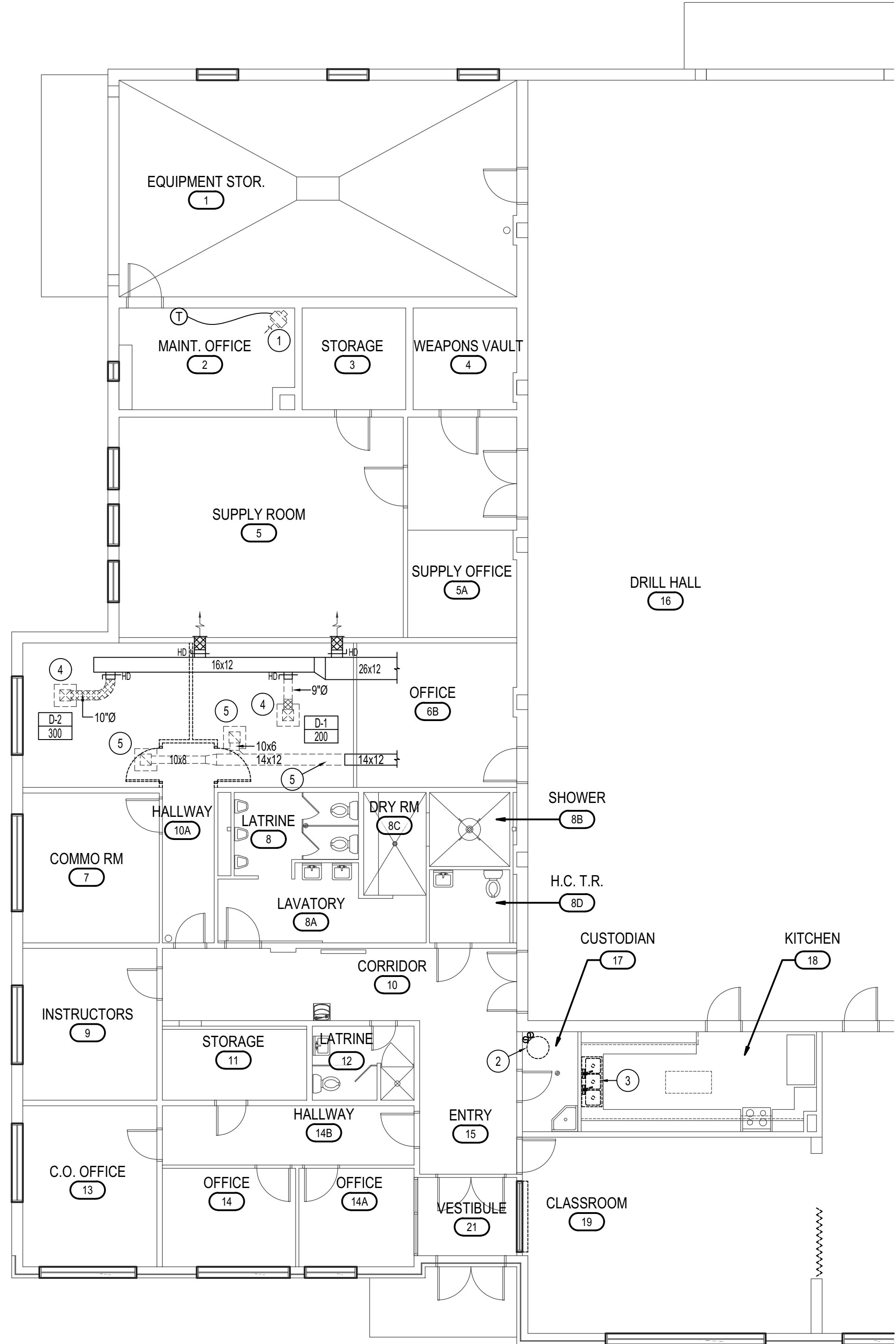
Approved  
 Plumbing Plan Review approved with conditions. Inspector to field verify for compliance with 2017 ISPC. Final approval is based upon inspection and shall adhere to the 2017 Idaho State Plumbing Code

FIXTURE SCHEDULE						
SYM.	DESCRIPTION	HOT	COLD	WASTE	VENT	
S-1	DOUBLE COMPARTMENT SINK - ELKAY MODEL LR-3319 STAINLESS STEEL SINK WITH MOEN 7200 SINGLE LEVER HANDLE, (2) LK-99 HEAVY DUTY STRAINER, AND 1/2" STOPS.	1/2"	1/2"	1-1/2"	1-1/2"	
WH-1	GAS FIRED WATER HEATER - A.O. SMITH BTH-199 SEALED COMBUSTION WATER HEATER WITH T&P RELIEF VALVE, AMTROL ST-25 EXPANSION TANK, HEAT TRAP NIPPLE AND SYMONS 7-500 MIXING VALVE. CONNECT TO EXISTING WATER, GAS AND PVC COMBUSTION / VENT PIPING.	1"	1"	---	---	

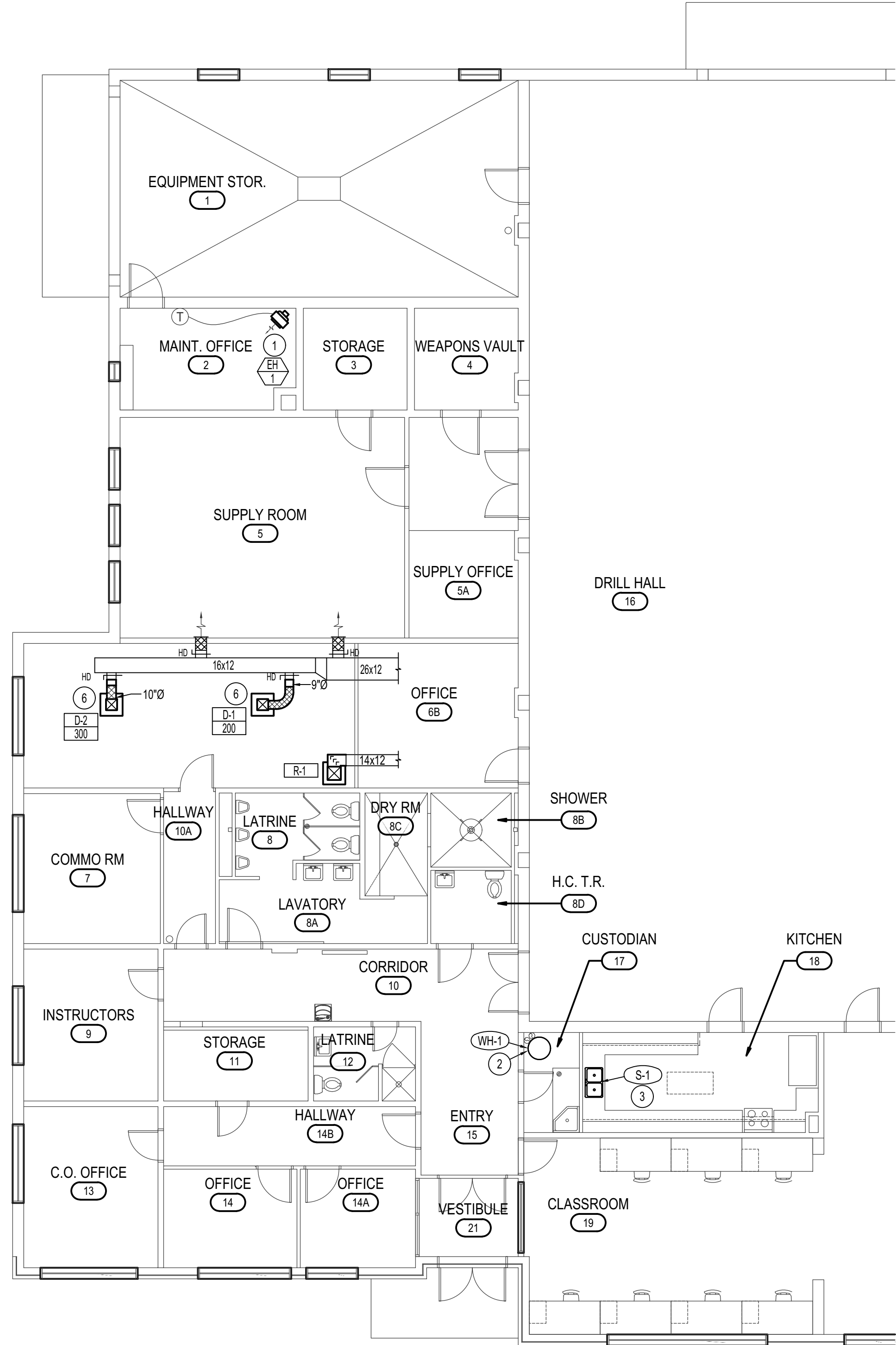
ELECTRIC HEATER SCHEDULE						
SYM.	TYPE	BTU	KW	CHAR	CONTROL	REMARKS
EH-1	HORIZONTAL UNIT HEATER	10,600	3.7	200R03	WALL T-STAT	MARLEY MODEL MUH05-21 UNIT HEATER. CONNECT TO EXISTING T-STAT.

GRILLE AND REGISTER SCHEDULE								
SYM.	SIZE	THROW	CFM	CONSTR.	FINISH	F.D.	O.B.	REMARKS
G-1	9 x 9	4-WAY	150-250	STEEL	WHITE	NO	NO	EXISTING CEILING DIFFUSER TO BE RELOCATED TO NEW CEILING BALANCE TO CFM SHOWN ON FLOOR PLAN
G-2	12 x 12	4-WAY	300-350	STEEL	WHITE	NO	NO	EXISTING CEILING DIFFUSER TO BE RELOCATED TO NEW CEILING BALANCE TO CFM SHOWN ON FLOOR PLAN
R-1	16 x 16	NA	700	STEEL	WHITE	NO	NO	TITUS MODEL 25R IN 24x24 LAY-IN MODULE

- PLAN NOTES:**
- EXISTING ELECTRIC UNIT HEATER TO BE REMOVED AND REPLACED. RECONNECT TO EXISTING THERMOSTAT ON WALL. REFER TO ELEC. DWGS. FOR ADDITIONAL COORDINATION.
  - EXISTING GAS FIRED WATER HEATER TO BE REMOVED AND REPLACED. RECONNECT TO EXISTING GAS, WATER AND FLUE PIPING.
  - EXISTING TRIPLE COMPARTMENT SINK TO BE REPLACED WITH NEW DOUBLE COMPARTMENT SINK. CONNECT TO EXISTING WATER, WASTE AND VENT PIPING AS REQUIRED FOR NEW SINK ROUGH-IN. CAP UNUSED PIPING INSIDE WALL AND PATCH TO MATCH EXISTING.
  - REMOVE EXISTING CEILING DIFFUSER, STORE IN SECURE LOCATION DURING DEMOLITION.
  - REMOVE EXISTING CEILING RETURN AIR GRILLE AND PORTION OF ASSOCIATED BRANCH DUCTWORK.
  - CLEAN AND RE-INSTALL EXISTING CEILING DIFFUSER. RE-BALANCE TO CFM SHOWN.



**MECH. & PLUMBING DEMO FLOOR PLAN**  
 SCALE: 1/8" = 1'-0"  
 North



**MECHANICAL / PLUMBING FLOOR PLAN**  
 SCALE: 1/8" = 1'-0"  
 North

MECH. LEGEND	
SYMBOL	DESCRIPTION
(T)	ELECTRONIC THERMOSTAT
(EH)	EQUIPMENT SYMBOL
(---)	EXISTING EQUIPMENT, FIXTURE OR DUCT TO BE REMOVED
(EH)	WALL MOUNTED ELECTRIC UNIT HEATER
(G)	CEILING SUPPLY AIR DIFFUSER
(R)	CEILING RETURN AIR GRILLE
(---)	ROUND FLEXIBLE SUPPLY AIR DUCTWORK

**Engineered Systems Associates**  
 1355 EAST CENTER  
 POCATELLO, IDAHO 83201  
 PHONE: (208) 233-0501  
 FAX: (208) 233-0529  
 EMAIL: esa@engsystems.com  
 ESA JOB NUMBER: 23055

**nbwarchitects p.a.**  
 ARCHITECTURE / PLANNING / INTERIORS  
 KEVIN R. BODILY, A.I.A. JAMES H. WYATT, A.I.A. GEOFF L. NIELSON, A.I.A.  
 930 JOHN BOHNS PARKWAY / P. O. BOX 2212 / IDAHO FALLS, IDAHO 83403-2212  
 (P) 208.522.8779 (F) 208.522.8765 (W) nbwarchitects.com

PROJECT: **BLACKFOOT READINESS CENTER**  
 260 RICH LANE  
 BLACKFOOT, IDAHO 83221  
 MECHANICAL / PLUMBING FLOOR PLANS

PROJECT NO. 23-332  
 SHEET TITLE: MECHANICAL / PLUMBING FLOOR PLANS

NO.	DATE	DESCRIPTION

PROJECT NO. 23004  
 DATE: AUGUST 2023  
 DRAWN BY: SR  
 CHECKED BY: DH  
 DRAWING NO.:

**MP1.1**

7/19/2023 10:20:54 AM S:\2000-20\23\23055 Blackfoot\_Readiness CAD\23055 MP1.1.dwg









# COMcheck Software Version COMcheckWeb Interior Lighting Compliance Certificate

**Project Information**  
Energy Code: 2018 IECC  
Project Title: BLACKFOOT READINESS CENTER  
Project Type: Alteration

Construction Site: 260 RICH LANE, BLACKFOOT, Idaho 83221  
Owner/Agent: BLACKFOOT READINESS CENTER, 260 RICH LANE, BLACKFOOT, Idaho 83221  
Designer/Contractor: Claire Jorgensen, Musgrove Engineering, 645 W 25TH ST, IDAHO FALLS, Idaho 83401, 2085212963, clairej@musgrovepa.com

**Allowed Interior Lighting Power**

Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts
1-Office	5676	0.79	4484
Total Allowed Watts =			4484

**Proposed Interior Lighting Power**

Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	A	B Lamps/ Fixture	C # of Fixture	D (C X D)	E (X D)
Office (5676 sq.ft.)					
LED: A1: LED Panel 19W:	1	12	23	276	
LED: A2: LED Panel 33W:	1	20	32	640	
LED: A3: LED Panel 44W:	1	7	47	329	
LED: B/B1: LED Linear 33W:	1	17	37	629	
LED: C: LED Linear 33W:	1	3	35	105	
LED: F: LED Other Fixture Unit 6.5W:	1	9	49	441	
LED: D: LED Other Fixture Unit 6.5W:	1	2	24	48	
Total Proposed Watts =				2468	

**Interior Lighting PASSES**  
**Interior Lighting Compliance Statement**  
Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2018 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.  
Claire Jorgensen, Designer  
Name - Title: Claire Jorgensen, Designer  
Signature: [Signature]  
Date: 09-01-2023

Project Title: BLACKFOOT READINESS CENTER  
Data filename: [Filename]  
Report date: 09/01/23  
Page 1 of 5

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.3.1 [EL22]²	Daylight zones provided with individual controls that control the lights independent of general area lighting. See code section C405.2.3 Daylight-responsive controls for applicable spaces. C405.2.3.1 Daylight responsive control function and section C405.2.3.2 Sidelit zone.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.4 [EL26]¹	Separate lighting control devices for specific uses installed per approved lighting plans.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.4 [EL27]¹	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.3 [EL6]¹	Exit signs do not exceed 5 watts per face.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.6 [EL26]²	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.7 [EL27]²	Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4). Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist).	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.8.2.1 [EL28]¹	Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.9 [EL29]²	Total voltage drop across the combination of feeders and branch circuits <= 5%.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

**Additional Comments/Assumptions:**  
[1] High Impact (Tier 1) [2] Medium Impact (Tier 2) [3] Low Impact (Tier 3)

Project Title: BLACKFOOT READINESS CENTER  
Data filename: [Filename]  
Report date: 09/01/23  
Page 4 of 5

# COMcheck Software Version COMcheckWeb Inspection Checklist

Energy Code: 2018 IECC

Requirements: 0.0% were addressed directly in the COMcheck software  
Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR4]¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

**Additional Comments/Assumptions:**

[1] High Impact (Tier 1) [2] Medium Impact (Tier 2) [3] Low Impact (Tier 3)

Project Title: BLACKFOOT READINESS CENTER  
Data filename: [Filename]  
Report date: 09/01/23  
Page 2 of 5

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5.2 [F117]²	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.4.1 [F118]¹	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Interior Lighting fixture schedule for values.
C408.1.1 [F157]²	Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturers' information, specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C408.2.5.1 [F116]¹	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C408.3 [F133]²	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

**Additional Comments/Assumptions:**

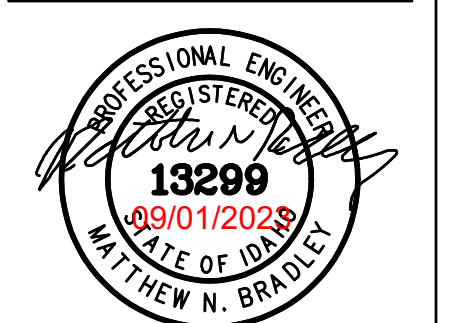
[1] High Impact (Tier 1) [2] Medium Impact (Tier 2) [3] Low Impact (Tier 3)

Project Title: BLACKFOOT READINESS CENTER  
Data filename: [Filename]  
Report date: 09/01/23  
Page 5 of 5

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.2.2 [EL22]²	Spaces required to have light-reduction controls have a manual control that allows the occupant to reduce the connected lighting load in a reasonably uniform illumination pattern >= 50 percent.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.1.1 [EL18]¹	Occupancy sensors installed in classroom/meeting/training rooms, conference/meeting/multipurpose rooms, copy/print rooms, lounge/breakrooms, enclosed offices, open plan office areas, restrooms, storage rooms, locker rooms, warehouse storage areas, and other spaces <= 300 sqft that are enclosed by floor-to-ceiling height partitions. Reference section language C405.2.1.2 for control function in warehouses and section C405.2.1.3 for open plan office spaces.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.1.2 [EL19]¹	Occupancy sensors control function in warehouses: In warehouses, the lighting in aislesways and open areas is controlled with occupant sensors that automatically reduce lighting power by 50% or more when the areas are unoccupied. The occupant sensors control lighting in each aisleway independently and do not control lighting beyond the aisleway being controlled by the sensor.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.1.3 [EL20]¹	Occupant sensor control function in open plan office areas: Occupant sensor controls in open office spaces >= 300 sq.ft. have controls 1) configured so that general lighting can be controlled separately in control zones with floor areas <= 600 sq.ft. within the space, 2) automatically turn off general lighting in all control zones within 20 minutes after all occupants have left the space, 3) are configured so that general lighting power in each control zone is reduced by >= 80% of the full zone general lighting power within 20 minutes of all occupants leaving that control zone, and 4) are configured such that any daylight responsive control will activate space general lighting or control zone general lighting only when occupancy for the same area is detected.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.2.2 [EL21]²	Each area not served by occupancy sensors (per C405.2.1) have time-switch controls and functions detailed in sections C405.2.2.1 and C405.2.2.2.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

[1] High Impact (Tier 1) [2] Medium Impact (Tier 2) [3] Low Impact (Tier 3)

Project Title: BLACKFOOT READINESS CENTER  
Data filename: [Filename]  
Report date: 09/01/23  
Page 3 of 5



**nbwarchitects p.a.**  
ARCHITECTURE / PLANNING / INTERIORS  
990 JOHN BOHNS PARKWAY / P. O. BOX 2212 / IDAHO FALLS, IDAHO 83403-2212  
(P) 208-522-8779 (F) 208-522-8785 (W) nbwarchitects.com

DPW NO. 23-332  
**BLACKFOOT READINESS CENTER**  
260 RICH LANE  
BLACKFOOT, IDAHO 83221  
LIGHTING COMPLIANCE

REVISIONS

NO.	DESCRIPTION

NBW PROJECT NO.: 23004  
DATE: August 2023  
DRAWN BY: CCJ  
CHECKED BY: MNB

DRAWING NO.: E1.1



**GENERAL NOTES:**

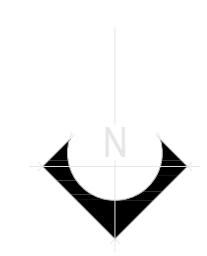
A REFER TO ARCHITECTURAL DRAWINGS FOR PROJECT PHASING.

**KEYED NOTES:**

- # SYMBOL USED FOR NOTE CALLOUT.
- ROOM NOT PART OF SCOPE, NO WORK.
  - EXISTING LIGHTING FIXTURE TO BE REMOVED. ROOM BRANCH CIRCUIT TO REMAIN FOR REUSE.
  - EXISTING LIGHTING SWITCH TO BE REPLACED WITH DIMMER.
  - EXISTING CEILING OCCUPANCY SENSOR TO BE REMOVED.
  - EXISTING LIGHTING SWITCH TO BE REMOVED.
  - EXISTING LIGHTING SWITCH TO BE REPLACED WITH WALL OCCUPANCY SENSOR.
  - EXISTING LIGHTING FIXTURE TO BE REPLACED WITH LED FIXTURE.



**DEMOLITION LIGHTING PLAN**  
 SCALE: 1/8" = 1'-0"



PROJECT:  
 SHEET TITLE:

REVISIONS


NBW PROJECT NO.: 23004  
 DATE: August 2023  
 DRAWN BY: CCJ  
 CHECKED BY: MNB

DRAWING NO.:





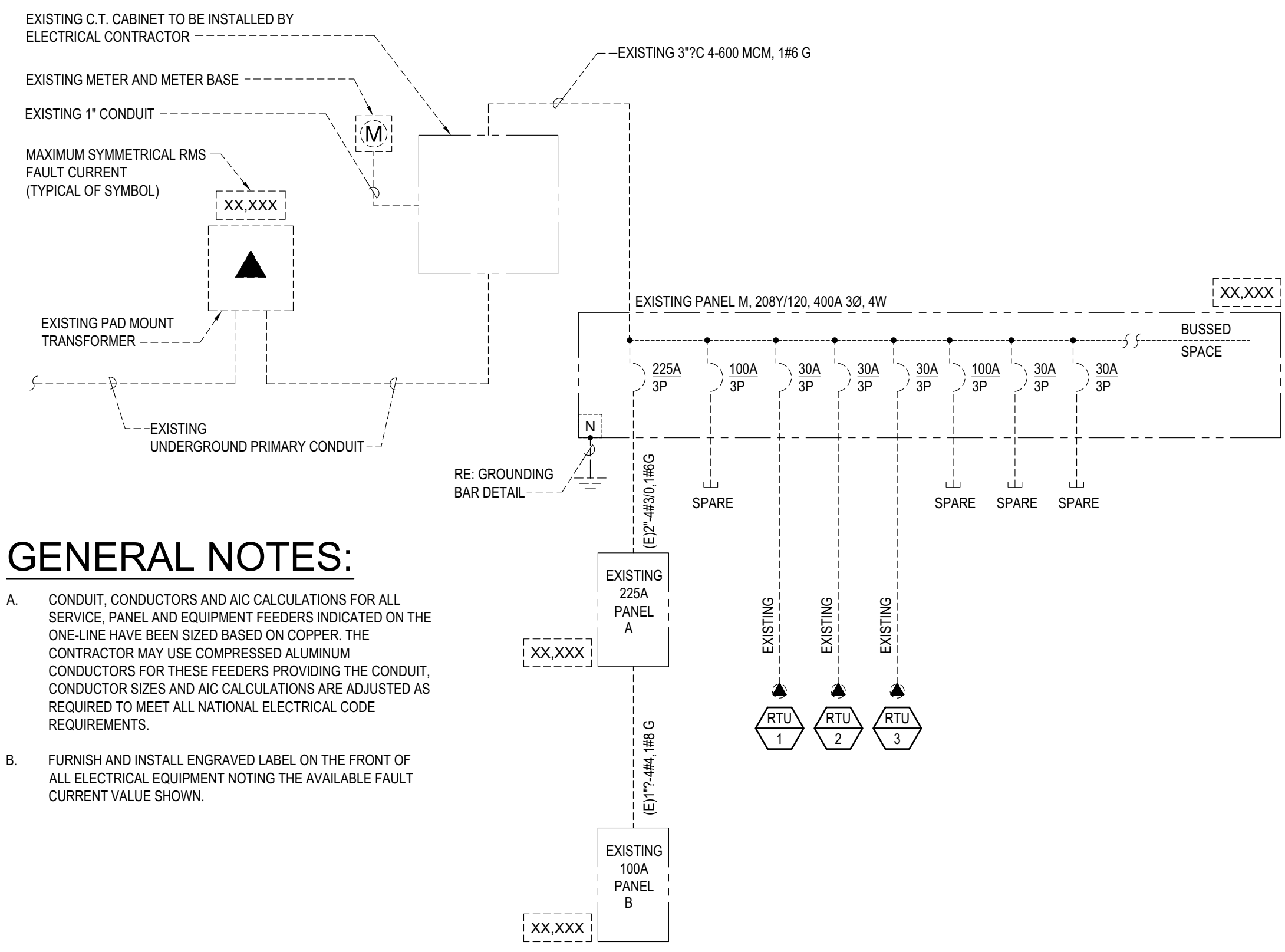








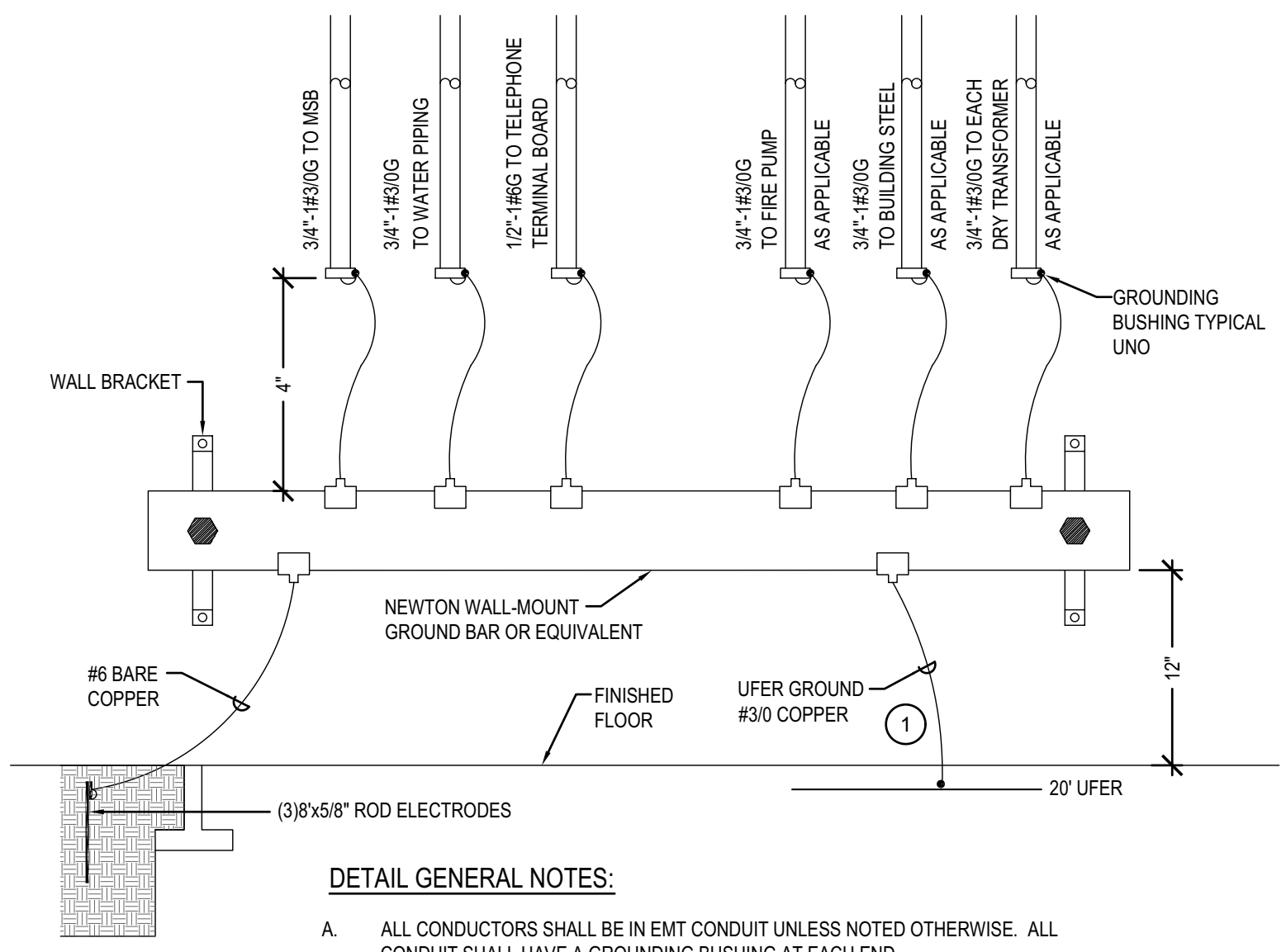




**GENERAL NOTES:**

A. CONDUIT, CONDUCTORS AND AIC CALCULATIONS FOR ALL SERVICE, PANEL AND EQUIPMENT FEEDERS INDICATED ON THE ONE-LINE HAVE BEEN SIZED BASED ON COPPER. THE CONTRACTOR MAY USE COMPRESSED ALUMINUM CONDUCTORS FOR THESE FEEDERS PROVIDING THE CONDUIT, CONDUCTOR SIZES AND AIC CALCULATIONS ARE ADJUSTED AS REQUIRED TO MEET ALL NATIONAL ELECTRICAL CODE REQUIREMENTS.

B. FURNISH AND INSTALL ENGRAVED LABEL ON THE FRONT OF ALL ELECTRICAL EQUIPMENT NOTING THE AVAILABLE FAULT CURRENT VALUE SHOWN.



**DETAIL GENERAL NOTES:**

A. ALL CONDUCTORS SHALL BE IN EMT CONDUIT UNLESS NOTED OTHERWISE. ALL CONDUIT SHALL HAVE A GROUNDING BUSHING AT EACH END.

B. ALL CONNECTIONS SHALL BE EXOTHERMIC WELD, LISTED PRESSURE CONNECTORS, LISTED CLAMPS OR OTHER LISTED MEANS.

C. PROVIDE BONDING OF GAS PIPING PER NEC 250.104(B)(1).

**DETAIL KEYED NOTES:**

(#) SYMBOL USED FOR NOTE CALLOUT.

1. UFER GROUND TO BE 20' OF #4 AWG COPPER OR 1/2" MINIMUM DIAMETER STEEL REINFORCING BAR PER 250.52.

**PANEL: (E)A** PROJECT: BLACKFOOT READINESS CENTER

VOLTAGE: 208 / 120 V 3 PH 4 WIRE AMPERE RATINGS: 225A WITH 225A MLO MOUNTING: SURFACE  
 BASIS OF DESIGN PANEL TYPE: PANEL BOARD NEMA ENCLOSURE TYPE: 1 PANEL AIC RATING: 10000 AIC

CTK NOTES:  
 1. EXISTING BREAKER  
 2. NEW/RELEASED BREAKER  
 3. GFCI FOR PERSONNEL PROTECTION (5mA)

CKT	DESCRIPTION	CKT NOTE	LOAD VA	LOAD AMPS	AMPS/ POLES	LOAD (VA)			AMPS/ POLES	LOAD AMPS	LOAD VA	CKT NOTE	DESCRIPTION	CKT	
						A	B	C							
1	LIGHTS RM 16	1	0.0	20	1	0			20	1	0.0	1	RECEPT RM 1&2	2	
3	LIGHTS RM 16	1	0.0	20	1	0	0		20	1	0.0	1	SPARE	4	
5	LIGHTS RM 16	1	0.0	20	1	0		0	20	1	0.0	1	RECEPT RM 5A	6	
7	LIGHTS RM 1	1	0.0	20	1	0			20	1	0.0	1	RECEPT RMS 5A, 6, 7, 16	8	
9	LIGHTS RM 2, 3, 4, 5, 5A, 6, 6A, 6B, 7	1	0.0	20	1	0		0	20	1	0.0	1	RECEPT RM 16, EXTERIOR LIGHTS	10	
11	LIGHTS RM 7, 8, 8A, 8B, 8C	1	0.0	20	1	0			312	1	2.6	312	RH-1	12	
13	DOOR OPENER RM 1	1	0.0	20	1	312			20	1	2.6	312	RH-2	14	
15	DOOR OPERATOR RM 16	1	0.0	20	1	312			20	1	2.6	312	RH-3	16	
17	UNIT HEATER RM 1	1	0.0	20	1	1253			20	3	10.4	1253	ELECTRIC HEATER RM 2	18	
19	EXTERIOR LIGHTS	1	0.0	25	1	1253			**	**	10.4	1253	1	***	20
21	DEDICATED CIRCUIT RM 4	1	0.0	20	1	1253			**	**	10.4	1253	1	***	22
23	RECEPT RM 6, 6A	1	0.0	20	1	0			30	2	0.0	1	STORAGE BUILDING	24	
25	RECEPT RM 6B, 6C	1	0.0	20	1	0			**	**	0.0	1	***	26	
27	EXTERIOR FLOOD LIGHTS	1	0.0	20	1	0			30	2	0.0	1	STORAGE TRAILER	28	
29	SPARE	1	0.0	30	2	0			**	**	0.0	1	***	30	
31	***	1	0.0	**	**	0			20	1	0.0	1	SPARE	32	
33	BLANK					0			20	1	0.0	1	SPARE	34	
35	BLANK					0			20	1	0.0	1	SPARE	36	
37	BLANK					0			100	3	0.0	0	PANEL B	38	
39	BLANK					0			**	**	0.0	0	1	***	40
41	BLANK					0			**	**	0.0	0	1	***	42
						1565.0	1565.0	1565.0	VA						
						13.0	13.0	13.0	AMPS	4695 TOTAL VA					

**PANEL: (E)B** PROJECT: BLACKFOOT READINESS CENTER

VOLTAGE: 208 / 120 V 3 PH 4 WIRE AMPERE RATINGS: 100A WITH 100A CB MOUNTING: SURFACE  
 BASIS OF DESIGN PANEL TYPE: PANEL BOARD NEMA ENCLOSURE TYPE: 1 PANEL AIC RATING: 10000 AIC

CTK NOTES:  
 1. EXISTING BREAKER  
 2. NEW/RELEASED BREAKER  
 3. GFCI FOR PERSONNEL PROTECTION (5mA)

CKT	DESCRIPTION	CKT NOTE	LOAD VA	LOAD AMPS	AMPS/ POLES	LOAD (VA)			AMPS/ POLES	LOAD AMPS	LOAD VA	CKT NOTE	DESCRIPTION	CKT	
						A	B	C							
1	LIGHTS RM 17, 18, 19	1	0.0	20	1	0			20	1	0.0	1	LIGHTS RMS 9, 10, 11, 12, 13, 14, 14A, 14, 2	2	
3	LIGHTS RM 20	1	0.0	20	1	0			20	1	0.0	1	RECEPT RMS 16, 17, 19, 20	4	
5	RECEPT RM 18	1	0.0	20	1	0			20	1	0.0	1	RECEPT RMS 7, 8, 9, 10, 13	6	
7	RECEPT RMS 13, 14	1	0.0	20	1	0			20	1	0.0	1	SPARE	8	
9	DATA/COMM HEAD END	1	0.0	20	1	0			20	1	0.0	1	GAS WATER HEATER RM 17	10	
11	RANGE RECEPT RM 18	1	0.0	50	2	0			20	1	0.0	1	RECEPT RM 19, 20	12	
13	***	1	0.0	**	**	0			20	1	0.0	1	ROOFTOP RECEPTS	14	
15	DATA WIRING RECEPT RM 14, 14A	1	0.0	20	1	0			20	1	0.0	1	RECEPT RM 7	16	
17	DATA WIRING RECEPT RM 14, 14A	1	0.0	20	1	0			20	1	0.0	1	RECEPT RM 7	18	
19	DATA WIRING RECEPT RM 19	1	0.0	25	1	0			20	1	0.0	1	SPARE	20	
21	DATA WIRING RECEPT RM 19	1	0.0	20	1	0			20	1	0.0	1	SPARE	22	
23	DATA WIRING RECEPT RM 20	1	0.0	20	1	0			20	1	0.0	1	SPARE	24	
25	DATA WIRING RECEPT RM 20	1	0.0	20	1	0			20	1	0.0	1	SPARE	26	
27	SPARE	1	0.0	20	1	0			20	1	0.0	1	SPARE	28	
29	SPARE	1	0.0	20	1	0			20	1	0.0	1	SPARE	30	
						0.0	0.0	0.0	VA						
						0.0	0.0	0.0	AMPS	0 TOTAL VA					

**PANEL: (E)M** PROJECT: BLACKFOOT READINESS CENTER

VOLTAGE: 208 / 120 V 3 PH 4 WIRE AMPERE RATINGS: 400A WITH 400A CB MOUNTING: SURFACE  
 BASIS OF DESIGN PANEL TYPE: PANEL BOARD NEMA ENCLOSURE TYPE: 1 PANEL AIC RATING: 10000 AIC

CTK NOTES:  
 1. EXISTING BREAKER  
 2. NEW/RELEASED BREAKER  
 3. GFCI FOR PERSONNEL PROTECTION (5mA)

CKT	DESCRIPTION	CKT NOTE	LOAD VA	LOAD AMPS	AMPS/ POLES	LOAD (VA)			AMPS/ POLES	LOAD AMPS	LOAD VA	CKT NOTE	DESCRIPTION	CKT	
						A	B	C							
1	PANEL A	1	1565	13.0	200	3	1565		100	3	0.0	1	SPARE	2	
***		1	1565	13.0	**	**	1565		**	**	0.0	1	***	4	
***		1	1565	13.0	**	**		1565	**	**	0.0	1	***	6	
RTU-1		1	3130	26.1	30	3	6260		30	3	26.1	3130	1	RTU-2	8
***		1	3130	26.1	**	**		6260	**	**	26.1	3130	1	***	10
***		1	3130	26.1	**	**		6260	**	**	26.1	3130	1	***	12
RTU-3		1	3130	26.1	30	3	3130		100	3	0.0	1	SPARE	14	
***		1	3130	26.1	**	**		3130	**	**	0.0	1	***	16	
***		1	3130	26.1	**	**		3130	**	**	0.0	1	***	18	
SPARE		1	0.0	30	3	0			30	3	0.0	1	SPARE	20	
***		1	0.0	**	**	0			**	**	0.0	1	***	22	
***		1	0.0	**	**	0			**	**	0.0	1	***	24	
BLANK		1	0.0	**	**	0			**	**	0.0	1	BLANK	26	
						10955.0	10955.0	10955.0	VA						
						91.3	91.3	91.3	AMPS	32865 TOTAL VA					

**ELECTRICAL LOAD SUMMARY (MSB)**

FEEDER	VOLTAGE	CONNECTED LOAD (KVA)								TOTAL CONNECTED LOAD		TOTAL DEMAND LOAD		
		LIGHTING	RECEP	MOTORS	KITCHEN	HVAC	ELEC HEAT	WATER HEAT	MISC	EXIST	KVA	AMPS	KVA	AMPS
(E)A	120/208Y	0.0	0.0	0.0	0.0	0.0	4.7	0.0	0.0	0.0	4.7	13.0	4.7	13.0
(E)B	120/208Y	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	120/208Y										0.0	0.0	0.0	0.0
TOTAL	120/208Y	0.0	0.0	0.0	0.0	0.0	4.7	0.0	0.0	0.0	4.7	13.0	4.7	13.0

DPW NO. 23-332

**BLACKFOOT READINESS CENTER**  
 260 RICH LANE  
 BLACKFOOT, IDAHO 83221

SINGLE LINE AND PANEL SCHEDULES

PROJECT: SHEET TITLE

REVISIONS

NO.	DATE	DESCRIPTION

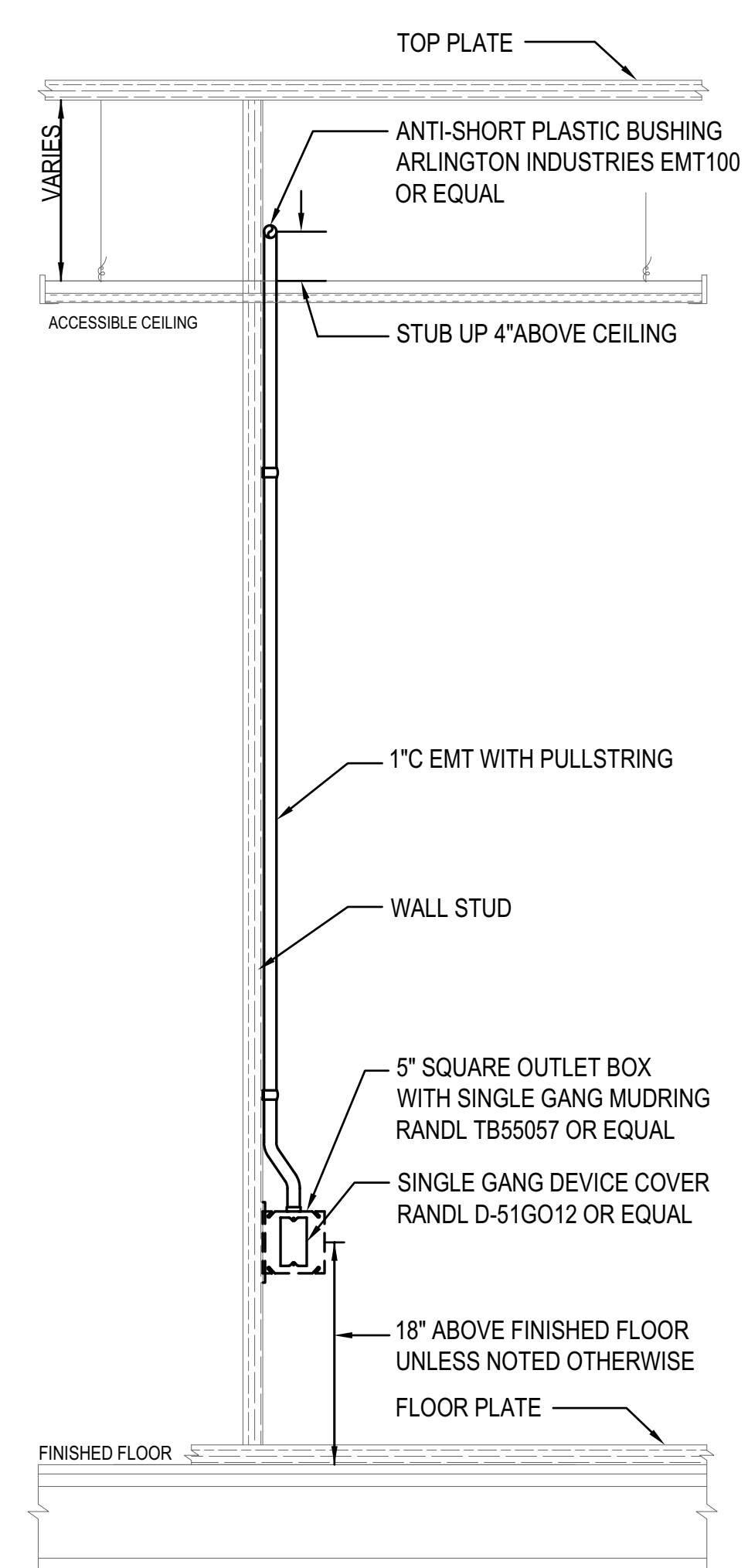
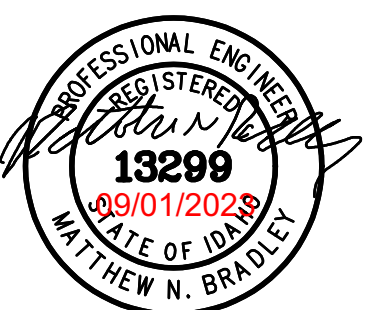
NBW PROJECT NO.: 23004  
 DATE: August 2023  
 DRAWN BY: CCJ  
 CHECKED BY: MNB  
 DRAWING NO.:

**E1.6**



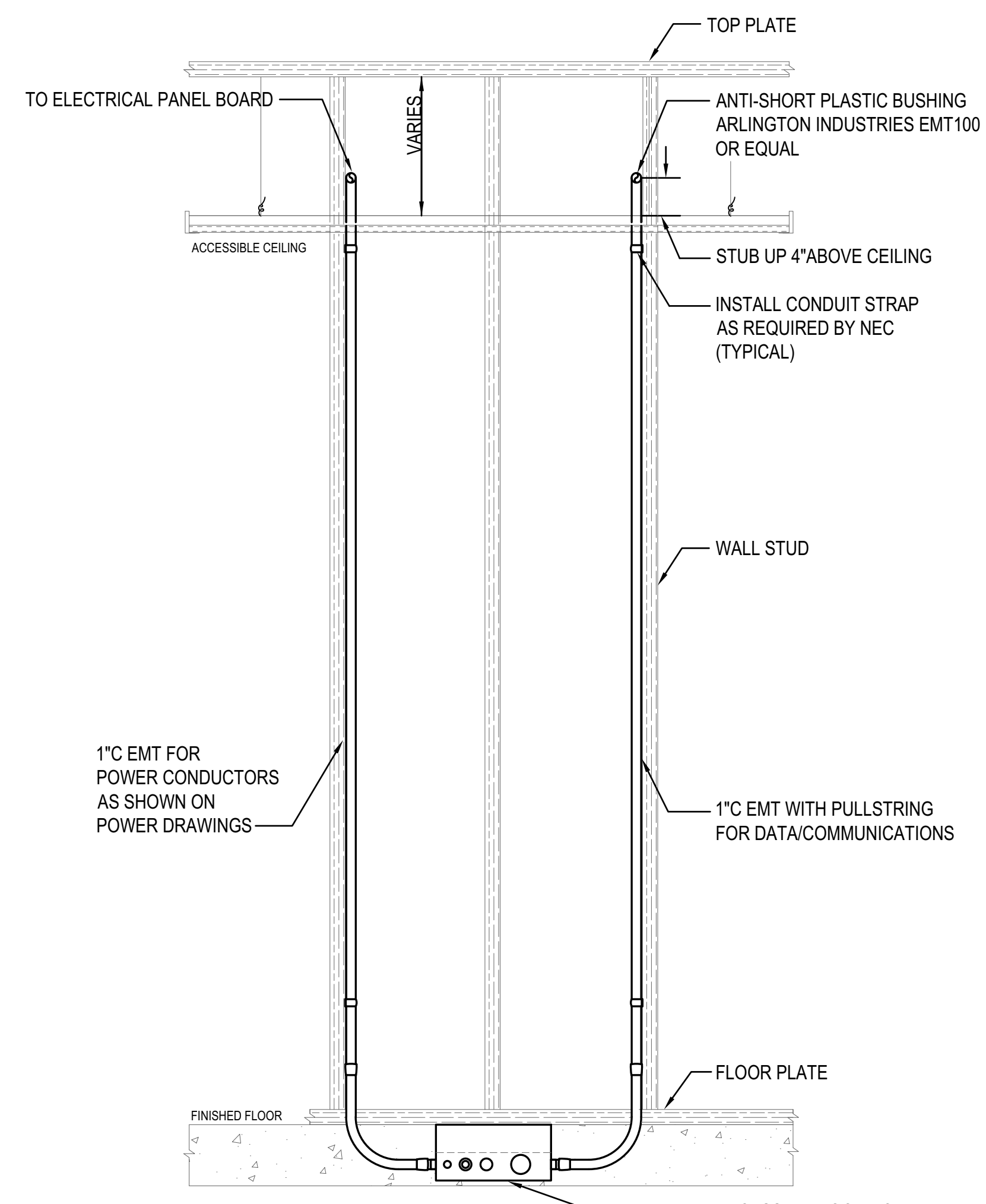


MUSGROVE ENGINEERING, P.A.  
 254 S. Whisperwood Way  
 Boise, ID 83709  
 208.384.0555  
 645 West 25th Street  
 Idaho Falls, ID 83402  
 208.523.2862  
 www.musgrovepa.com  
 Project No. 23-120



ELECTRICAL CONTRACTOR RESPONSIBLE FOR INSTALLATION OF DATA/TELEPHONE ROUGH-IN  
 TYPICAL DETAIL - ACTUAL INSTALLATION MAY VARY

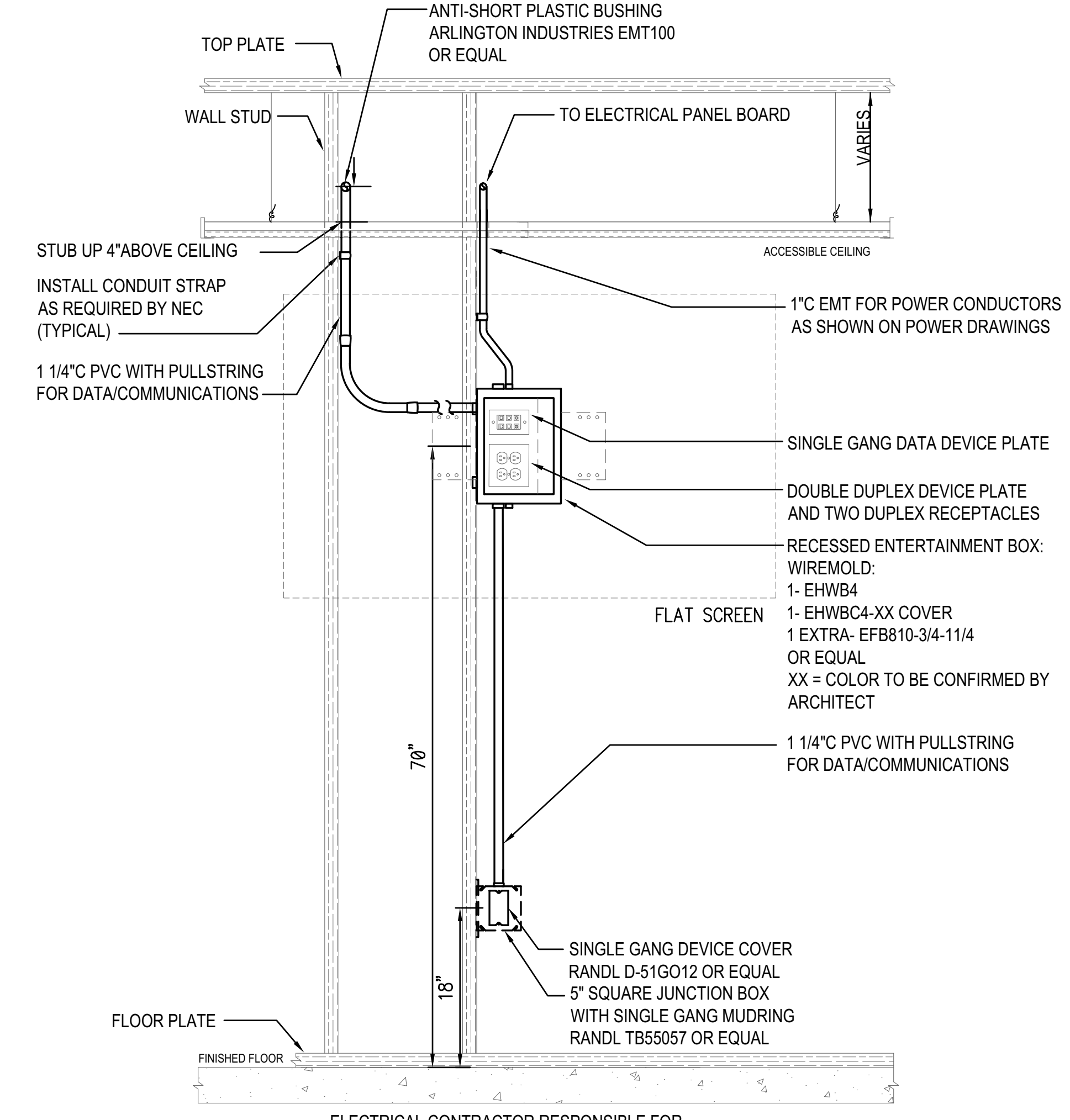
**1** DATA/TELEPHONE ROUGH-IN DETAIL  
 1" = 1'-0"



ELECTRICAL CONTRACTOR RESPONSIBLE FOR INSTALLATION OF DATA/TELEPHONE ROUGH-IN  
 TYPICAL DETAIL - ACTUAL INSTALLATION MAY VARY

RECESSED FLOOR BOX:  
 WIREMOLD:  
 1- EFB45S FLOOR BOX  
 1- EFB45BTCXX  
 OR EQUAL  
 XX = COLOR TO BE CONFIRMED BY ARCHITECT

**2** POWER/DATA FLOOR BOX ROUGH-IN DETAIL  
 1" = 1'-0"



ELECTRICAL CONTRACTOR RESPONSIBLE FOR INSTALLATION OF REB ROUGH-IN  
 TYPICAL DETAIL - ACTUAL INSTALLATION MAY VARY

**3** RECESSED ENTERTAINMENT BOX DETAIL  
 1" = 1'-0"

**nbwarchitects p.a.**  
 ARCHITECTURE / PLANNING / INTERIORS  
 990 JOHN BOBBS PARKWAY / P. O. BOX 2212 / IDAHO FALLS, IDAHO 83403-2212  
 (P) 208-522-8779 (F) 208-522-8785 (W) nbwarchitects.com

DPW NO. 23-332  
**BLACKFOOT READINESS CENTER**  
 260 RICH LANE  
 BLACKFOOT, IDAHO 83221

ELECTRICAL DETAILS

PROJECT: \_\_\_\_\_  
 SHEET TITLE: \_\_\_\_\_

NO.	REVISIONS

NBW PROJECT NO.: 23004  
 DATE: August 2023  
 DRAWN BY: CCJ  
 CHECKED BY: MNB

DRAWING NO.: \_\_\_\_\_

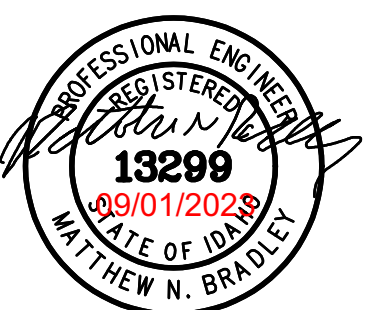
**E1.7**



Approved  
 Statewide Safety  
 Building Division  
 1000 S. State Street  
 Boise, ID 83724  
 (208) 333-3333  
 www.idaho.gov



**MUSGROVE ENGINEERING, P.A.**  
 234 S. Whisperwood Way  
 Boise, ID 83709  
 208.384.0555  
 645 West 25th Street  
 Idaho Falls, ID 83402  
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 Project No. 23-120



LIGHTING FIXTURE SCHEDULE (23-120)							
TYPE	DESCRIPTION	MTG.	LAMPS	WATTS	MFG. & CATALOG NUMBER	OR EQUAL BY	NOTES
A1	2X4 RECESSED VOLUMETRIC LIGHT FIXTURE MVOLT, 82CRI, 3000 LUMENS, 0- 10V DIM	RECESSED	LED 4000K	23	LITHONIA NO. 2BLT4-30L-ADPT-EZ1-LP840	LIGHTOLIER METALLUX H.E. WILLIAMS	1
A2	2X4 RECESSED VOLUMETRIC LIGHT FIXTURE 4000 LUMENS 0-10 VOLT DIMMING	RECESSED	LED 4000K	32	LITHONIA NO. 2BLT4-40L-ADPT-EZ1-LP840	LIGHTOLIER METALLUX H.E. WILLIAMS	1
A3	2X4 RECESSED VOLUMETRIC LIGHT FIXTURE 6000 LUMENS 0-10 VOLT DIMMING	RECESSED	LED 4000K	47	LITHONIA NO. 2BLT4-60L-ADPT-EZ1-LP840	LIGHTOLIER METALLUX H.E. WILLIAMS	1
B	4' WRAP LED FIXTURE 4000 LUMENS, INTEGRAL OCCUPANCY SENSOR WHITE FINISH	SURFACE	LED 4000K	37	LITHONIA NO. BLWP4-40L-ADPT-EZ1-LP840-MSD7ADCX	LIGHTOLIER METALLUX H.E. WILLIAMS	1
B1	4' WRAP LED FIXTURE 4000 LUMENS WHITE FINISH	SURFACE	LED 4000K	37	LITHONIA NO. BLWP4-40L-ADPT-EZ1-LP840	LIGHTOLIER METALLUX H.E. WILLIAMS	1
C	4' LINEAR LED FIXTURE 5000 LUMENS, MVOLT, 0-10V DIMMING, WHITE FINISH	SURFACE	LED 4000K	34.8	LITHONIA NO. CLX-L48-5000LM-SEF-WDL-MVOLT-GZ10-40K-80CRI-WH	LIGHTOLIER METALLUX H.E. WILLIAMS	1
D	VAPOR TIGHT LED STRIP LIGHT 3000 LUMENS	SURFACE	LED	24	LITHONIA NO. CSVTL48-3000LM-MVOLT-40K-80CRI	LIGHTOLIER METALLUX H.E. WILLIAMS	1
E	INTEGRATED EXIT/UNIT COMBO FIXTURE GREEN EXIT LED	SURFACE	LED	2.32	LITHONIA NO. ECBG LED M6	LIGHTOLIER METALLUX H.E. WILLIAMS	1
F	4' LINEAR LED FIXTURE 1000 LUMENS, WIDE DIFFUSE LENS, MVOLT, 0-10V DIMMING 10W EMERGENCY SELF-DIAGNOSTIC BATTERY PACK, WHITE FINISH	SURFACE	LED 4000K	49	LITHONIA NO. CLX-L48-1000LM-SEF-WDL-MVOLT-GZ10-40K-80CRI-PS1050-WH	LIGHTOLIER METALLUX H.E. WILLIAMS	1

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

SWITCH AND OCCUPANCY SENSOR LEGEND	
S <sub>01</sub>	OCCUPANCY SENSOR - WALL MOUNT, SINGLE TECHNOLOGY, 120-277V, SINGLE POLE, MULTI-WAY SENSOR SWITCH WSXA-MWO-XX OR EQUAL
S <sub>02</sub>	OCCUPANCY SENSOR - WALL MOUNT, SINGLE TECHNOLOGY, DIMMING, 120-277V, SINGLE POLE, MULTI-WAY SENSOR SWITCH WSXA-MWO-D-XX OR EQUAL
⊙	OCCUPANCY SENSOR - CEILING MOUNT, DUAL TECHNOLOGY, LOW VOLTAGE, SMALL MOTION SENSOR SWITCH CM-PDT-9 OR EQUAL
⊕	POWER PACK - 120 VOLT, 15 VDC SENSOR SWITCH PP20 OR EQUAL
S <sub>0</sub>	DIMMING SWITCH - WALL MOUNT, 120/277V, ON/OFF/DIM, REQUIRES POWER PACK AND 24V TO SWITCH SENSOR SWITCH SPODMA-MWO OR EQUAL
XX=VERIFY COLOR WITH ARCHITECT PRIOR TO ORDER	

EQUAL PRODUCTS FROM WATTSTOPER, LUTRON, LEGRAND, AND EATON WILL BE ACCEPTED

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DPW NO. 23-332  
**BLACKFOOT READINESS CENTER**  
 260 RICH LANE  
 BLACKFOOT, IDAHO 83221  
 LIGHTING DETAILS

PROJECT: \_\_\_\_\_

REVISIONS

NO.	DATE	DESCRIPTION

NBW PROJECT NO.: 23004  
 DATE: August 2023  
 DRAWN BY: CCJ  
 CHECKED BY: MNB

DRAWING NO.: **E1.8**



This is not a building permit

Approved  
State of Idaho  
Division of Building Safety  
Date: 10/03/23  
PA#: BLD2307-00115

These Documents are approved contingent on the compliance with the mark-ups and notes applied.

This approval shall not be construed to be an approval of any violation of, or variance from, Idaho's adopted codes, standards, laws or rules applicable to this project.

## COMMERCIAL PLAN REVIEW NOTES

**These notes shall always be attached to the stamped approved plans and documents. These are part of the plans and shall be a permanent record with the plans.**

**BLD2307-00115**

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

Section 107.3.1, 2018 IBC. *Approval of construction documents. When the building official issues a permit, the construction documents shall be approved, in writing or by stamp, as "Reviewed for Code Compliance." One set of construction documents reviewed shall be retained by the building official. The other set shall be returned to the applicant, shall be kept at the site of work and shall be open to inspection by the building official or a duly authorized representative. A complete set of stamped approved plans which includes, all documents submitted for plan review (E.g. approved stamped plans, plan review notes, stamped engineering calculations, stamped truss drawings and calculations, Res/Com-checks, and all manufactures installation instructions for all manufactured products.) shall be on site for inspector verification. Without a complete set of documents inspections cannot take place.*

Section 105.4, 2018 IBC. *Validity of permit. The issuance or granting of a permit shall not be construed to be a permit for, or an approval of, any violation of any of the provisions of this code or of any other ordinance of the jurisdiction. Permits presuming to give authority to violate or cancel the provisions of this code or other ordinances of the jurisdiction shall not be valid. The issuance of a permit based on construction documents and other data shall not prevent the building official from requiring the correction of errors in the construction documents and other data. The building official is authorized to prevent occupancy or use of a structure where in violation of this code or of any other ordinances of this jurisdiction.*

Section 110.5, 2018 IBC. *Inspection requests. It shall be the duty of the holder of the building permit or their duly authorized agent to notify the building official when work is ready for inspection. It shall be the duty of the permit holder to provide access to and means for inspections of such work that are required by this code. (See section 110.3 2018 IBC. for required inspections)*

107.4 2018 IBC. *Amended construction documents.*

*Work shall be installed in accordance with the approved construction documents, and any changes made during construction that are not in compliance with the approved construction documents shall be resubmitted for approval as an amended set of construction documents. Any substantial changes shall be resubmitted for plan review at the inspector's discretion.*

Section 110.1, 2018 IBC. *Approvals a result of an inspection shall not be construed to be an approval of a violation of the provisions of the code or of other ordinances of the jurisdiction. Inspections presumed to give authority to violate or cancel the provisions of this code or of other ordinances of the jurisdiction shall not be valid.*

Safeguards during construction and, or demolition shall be as per chapter 33 of the 2018 IBC.

*Construction safeguards of section 3302 of the 2018 IBC shall be followed at all times during the demolition and construction process. It is the responsibility of the design professional, contractor, and owner to ensure that all safeguards are taken within the scope of this project to ensure safety to all workers, pedestrians, and tenants during any construction operations.*

1704.2 Special inspections and tests. *Where application is made to the building official for construction as specified in Section 105, the owner or the owner's authorized agent, other than the contractor, shall employ one or more approved agencies to provide special inspections and tests during construction on the types of work specified in Section 1705 and identify the approved agencies to the building official. These special inspections and tests are in addition to the inspections by the building official that are identified in Section 110. The Special inspection report is to be shown to the building inspector upon building inspection.*

*A final report documenting required special inspections and tests, and correction of any discrepancies noted in the inspections or tests, shall be submitted at a point in time agreed upon prior to the start of work by the owner or the owner's authorized agent to the building official.*

The Idaho Department of Building Safety does not enforce the requirements of the ADA, the State of Idaho has adopted the 2009 ANSI A117.1 for accessibility. The ADA is regulated and enforced by the DOJ alone. No ADA requirements were held to compliance in this plan review. It is solely the responsibility of the contractor, architect and or owner to insure compliance with any and all ADA requirements for this project.

Local Fire code officials shall ensure that all fire protection features (E.g. fire suppression systems, alarms, signage, warning devises, wiring, smoke detection systems, fire extinguishers, automatic fire extinguishing systems, etc.) are compatible and compliant with all jurisdictional and adopted code requirements.



It is the responsibility of the owner the design professionals and the contractor to ensure complete code compliance for this project.

Any lack of information, questions or deviations shall be brought to the attention of the registered design professional of record for approval.

Final approval of all code compliance for this project will be based upon the 2018 IBC through field inspections, verifications, and approval by the field inspectors.