

# LEGEND

<b>EXISTING</b>		<b>ABBREVIATIONS</b>
BURIED ELECTRICAL — E — E —		ASP — ASPHALT
GAS — G — G — G —		BLD — BUILDING
SANITARY SEWER — SA — SA —		BTM — BOTTOM
WATER — W — W — W —		CONC — CONCRETE
○ POWER POLE		DL — DAYLIGHT
⊙ SANITARY SEWER MANHOLE		EX — EXISTING
⊙ POLE / POST		FG — FINISHED GRADE
⊙ FIRE HYDRANT		FL — FLOWLINE
⊙ WATER VALVE		FND — FOUNDATION
⊙ BOREHOLE		FTN — FOOTING
<b>PROPOSED</b>		GB — GRADE BREAK
BURIED ELECTRICAL — [E] — [E] —		HWL — HIGH WATER LINE
GAS — [G] — [G] — [G] —		HP — HIGH POINT
DRAIN — [D] — [D] — [D] —		INT — INTERSECTION
WATER — [W] — [W] — [W] —		NG — NATURAL GROUND
⊙ FIRE HYDRANT	SECTION/DETAIL NUMBER <b>D</b>	TOA — TOP OF ASPHALT
⊙ WATER VALVE	SHEET NUMBER <b>-</b>	TOC — TOP OF CONCRETE
		WWF — WELDED WIRE FABRIC

# WYOMING STATE CONSTRUCTION DEPARTMENT

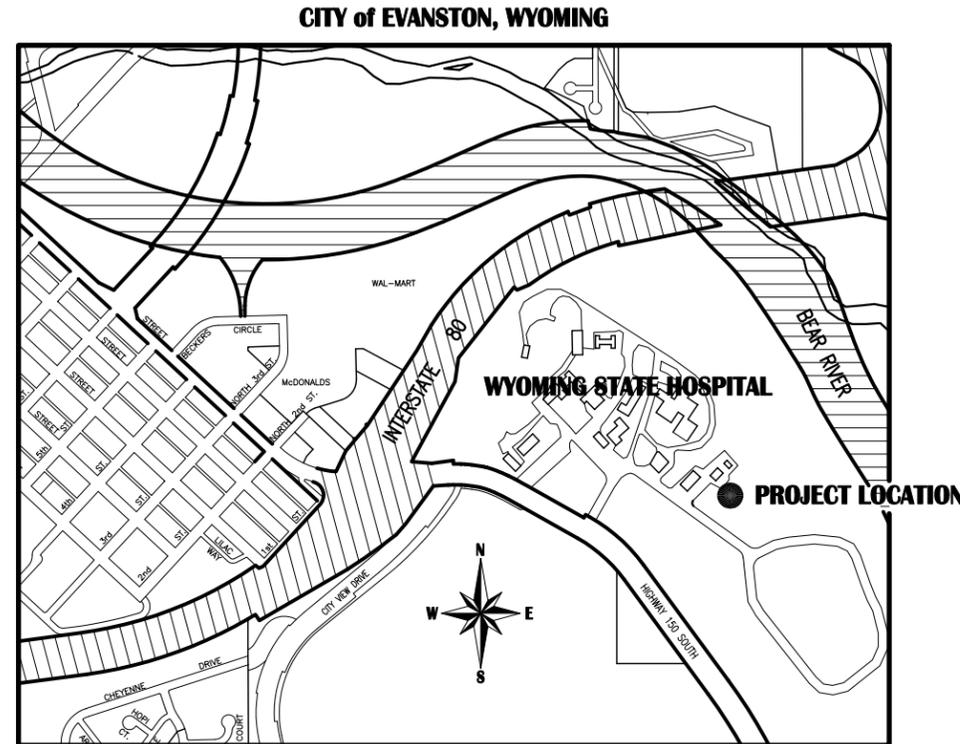
## WYOMING STATE HOSPITAL

### PRE-ENGINEERED METAL BUILDING

831 STATE HIGHWAY 150 SOUTH

# CODE EVALUATION

- Codes:
  - Building Codes: IBC 2024
  - Electrical Code: NEC 2023
  - Mechanical Code: IBC 2024
  - Plumbing Code: IBC 2024
- Occupancy (Storage): U (Low Hazard Building)
- Type of Construction: Type II-B
- Allowable Building Height: 55 feet
- Allowable Area:
  - Tabular Allowable Area: 8,500 S.F. (Nonsprinklered)
  - Area Factor Increase: 0.75
  - Allowable Number of Stories: 3
  - Building Increase:  $[8,500 \text{ sf} + (8,500 \text{ sf} \times 0.75)] \times 3 = 44,625 \text{ sf}$
- Actual Area and Stories:
  - U Area: 80 feet x 100 feet = 8,000 sf
  - Stories: 1
- Occupancy Load (OL) Calculation:
  - U Area / (1/300) Occupants = 26 Occupants
- Building Exit Load
  - Maximum Common Path of Egress Travel Distance (Nonsprinklered,  $OL \leq 30$ ) = 100 feet
  - 2 Exist Required, 3 Provided



**LOCATION MAP**  
NOT TO SCALE

# GENERAL NOTES:

- AS A MINIMUM, ALL CONSTRUCTION SHALL MEET THE REQUIREMENTS OF THE CODE NOTED IN THE CODE EVALUATION OF THE COVER PAGE. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS AND INDUSTRY STANDARDS, UNLESS MORE STRINGENT REQUIREMENTS ARE INDICATED. CIVIL WORK SHALL MEET THE REQUIREMENTS OF THE PROJECT SPECIFICATIONS OR THE CURRENT VERSION OF THE WYOMING PUBLIC WORKS STANDARD SPECIFICATION WHERE ADDITION INFORMATION IS NEEDED.
  - CONTRACTOR SHALL OBTAIN ALL REQUIRED STATE AND LOCAL BUILDING PERMITS BEFORE CONSTRUCTION.
  - IF THERE ARE ANY CONFLICTS BETWEEN ITEMS ON DRAWINGS AND GENERAL NOTES OR WITH SPECIFICATIONS, THE MOST STRINGENT REQUIREMENT GOVERNS.
  - THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS BEFORE STARTING WORK, AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES FOUND. THESE DRAWINGS ARE NOT TO BE SCALED FOR CONSTRUCTION.
  - UNDERGROUND UTILITIES SHOWN ON PLANS ARE ONLY APPROXIMATE LOCATIONS, AND MAY NOT SHOW ALL EXISTING UTILITIES IN THE AREA. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING WYOMING ONE-CALL (1-800-849-2478) AND LOCAL UTILITY COMPANIES PRIOR TO CONSTRUCTION. DAMAGE TO ANY UTILITIES SHALL BE REPAIRED AT THE COST OF THE CONTRACTOR.
  - PRIOR TO EXCAVATION ACTIVITIES CONTRACTOR SHALL POTHOLE THOSE LOCATIONS NOTED ON EACH PLAN SHEET FOR X, Y, AND Z LOCATION VERIFICATION BY THE ENGINEER. KEYNOTE 243.
  - ALL LINES AND GRADES FOR THE CONTRACTOR TO EXECUTE THE WORK UNDER THIS CONTRACT WILL BE ESTABLISHED, IDENTIFIED, AND PAID FOR BY THE CONTRACTOR.
  - CONTRACTOR SHALL CONSTRUCT AND MAINTAIN STORM WATER BMP'S INCLUDING TEMPORARY SEDIMENTATION CONTROL MEASURES NECESSARY, IN ADDITION TO THOSE SPECIFIED AND ASSOCIATED WITH LABOR, MATERIALS, EQUIPMENT, HAUL, AND INCIDENTALS NEEDED TO FULLY COMPLY WITH ALL RULES, REGULATIONS, AND RESTRICTIONS IMPOSED BY WDEQ AS A PART OF THE GENERAL PERMIT PROGRAM. THROUGHOUT THE WORK, CONTRACTOR SHALL MAINTAIN AND MODIFY BMP'S AS NECESSARY.
- UPON PROJECT COMPLETION, THE CONTRACTOR SHALL REMOVE AND DISPOSE OF BMP'S NOT SPECIFIED OR DESIGNATED BY THE OWNER'S REPRESENTATIVE AS PERMANENT EROSION CONTROL MEASURES.
- AFTER THE FINAL ACCEPTANCE OF THE PROJECT, THE OWNER WILL ACCEPT RESPONSIBILITY FOR STORM WATER CONTROL ON THE PROJECT.
- ALL AREAS DISTURBED BY THE CONSTRUCTION, INCLUDING AREAS DISTURBED BY SUBCONTRACTORS OR BY UTILITY COMPANIES, SHALL BE RESTORED TO A CONDITION ACCEPTABLE TO THE OWNER'S REPRESENTATIVE. RESTORATION SHALL INCLUDE HYDRO-SEEDING OF ALL DISTURBED AREAS WITH AN APPROVED RANGE LAND SEED MIX.

DURING CONSTRUCTION, THE CONTRACTOR SHALL REMOVE DEBRIS, LITTER, MUD, AND ANY OTHER CONSTRUCTION RELATED MATERIALS FROM THE PROJECT SITE, ROADWAYS, AND SURROUNDING PROPERTY PERIODICALLY OR AT THE DIRECTION OF THE OWNER'S REPRESENTATIVE, INCLUDING CONSTRUCTION DEBRIS THAT HAS LEFT THE PROJECT AREA. PROJECT CLEAN UP SHALL BE INCIDENTAL TO OTHER WORK ITEMS.

### PROPERTY OWNER:

STATE OF WYOMING  
831 STATE HWY 150 SOUTH  
EVANSTON, WYOMING 82931

### PROJECT OWNER:

WYOMING STATE CONSTRUCTION DEPARTMENT  
700 WEST 21st STREET  
CHEYENNE, WYOMING 82002

### PREPARED BY:

CREST, LLC (CIVIL)  
ENGINEERING DESIGN ASSOC. (M.E. and E.E.)  
LOWER & CO. PC (S.E.)  
WASATCH SURVEYING ASSOC. (SURVEY)



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TITLE				SHEET No.		REVISION	
WYOMING STATE CONSTRUCTION DEPT. PRE-ENGINEERED METAL BUILDING COVER PAGE				C-001		5	
Drawn By:	BLS	Date:	-	Engr. BLS	Date:	-	-
Chk'd. By:	-	Date:	-	App'd. OWNERS	Date:	-	-
Project No.	25-11-195	Scale:	AS NOTED				

# KEYNOTES

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\* INDICATES WORK THAT SHALL BE SUBSIDIARY TO OTHER WORK ITEMS.

## EXISTING

- 100** NATIVE VEGETATION
- 101** ASPHALT PAVEMENT
- 103** CONCRETE DOUBLE GUTTER
- 104** CONCRETE SIDEWALK
- 105** WEATHER STATION
- 108** ELECTRICAL TRANSFORMER
- 110** SANITARY SEWER MANHOLE
- 113** METAL BUILDING

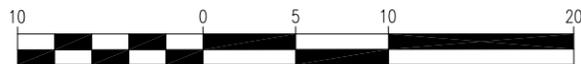
## DEMOLITION

- 150** DEMOLISH ASPHALT PAVEMENT
- \* **152** DEMOLISH CONCRETE SIDEWALK
- \* **154** SAW CUT

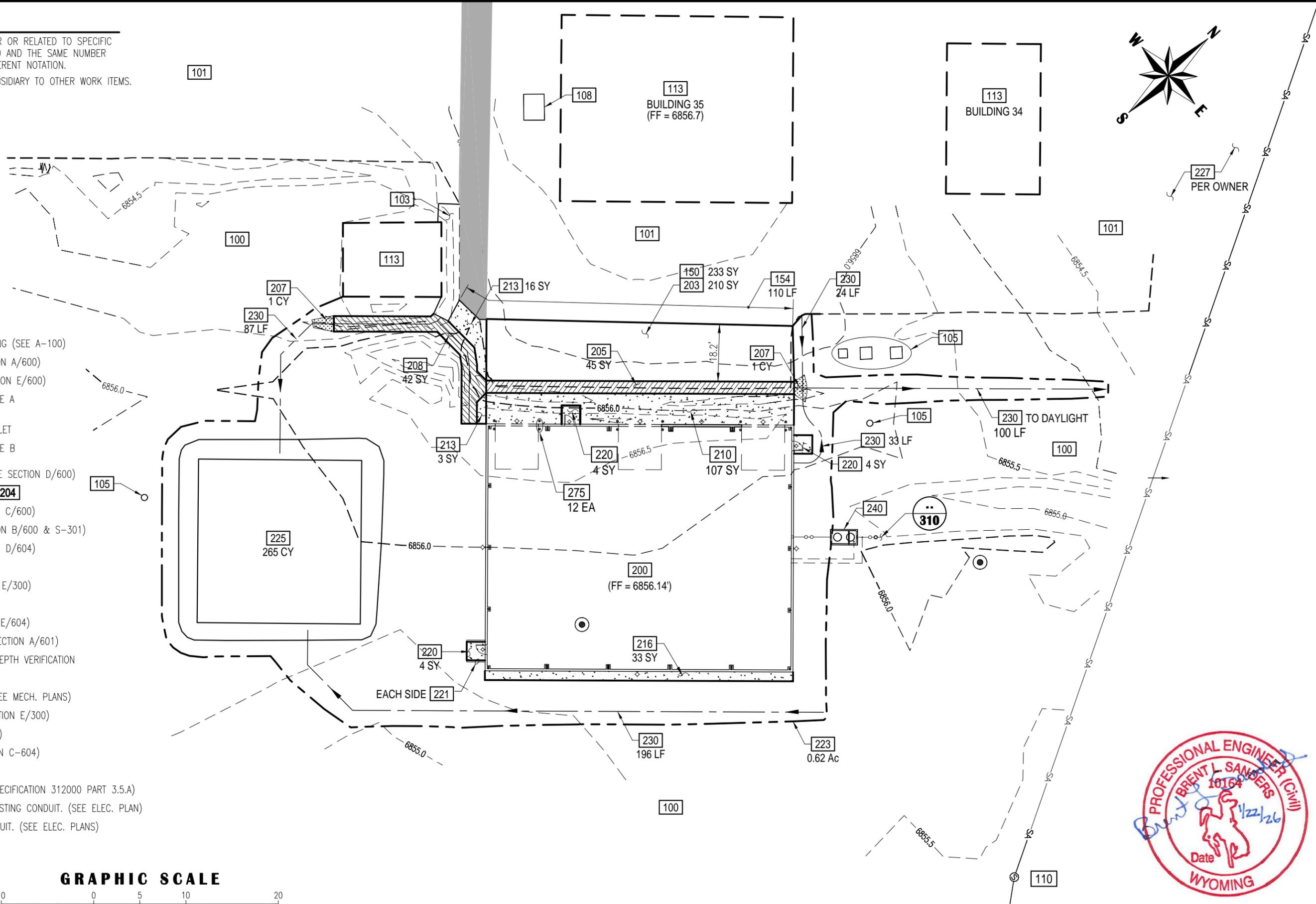
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- 271** WATER VALVE (SEE A/602)
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## GRAPHIC SCALE



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WYOMING STATE CONSTRUCTION DEPT. PRE-ENGINEERED METAL BUILDING EXISTING / PROPOSED SITE PLAN			
Drawn By: BLS	Date: -	Engr. BLS	Date: -
Chk'd. By: -	Date: -	App'd: OWNERS	Date: -
Project No. 25-11-195	Scale: AS NOTED	SHEET No. <b>C-100</b> REVISION <b>5</b>	



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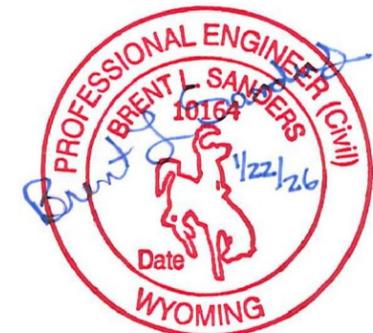
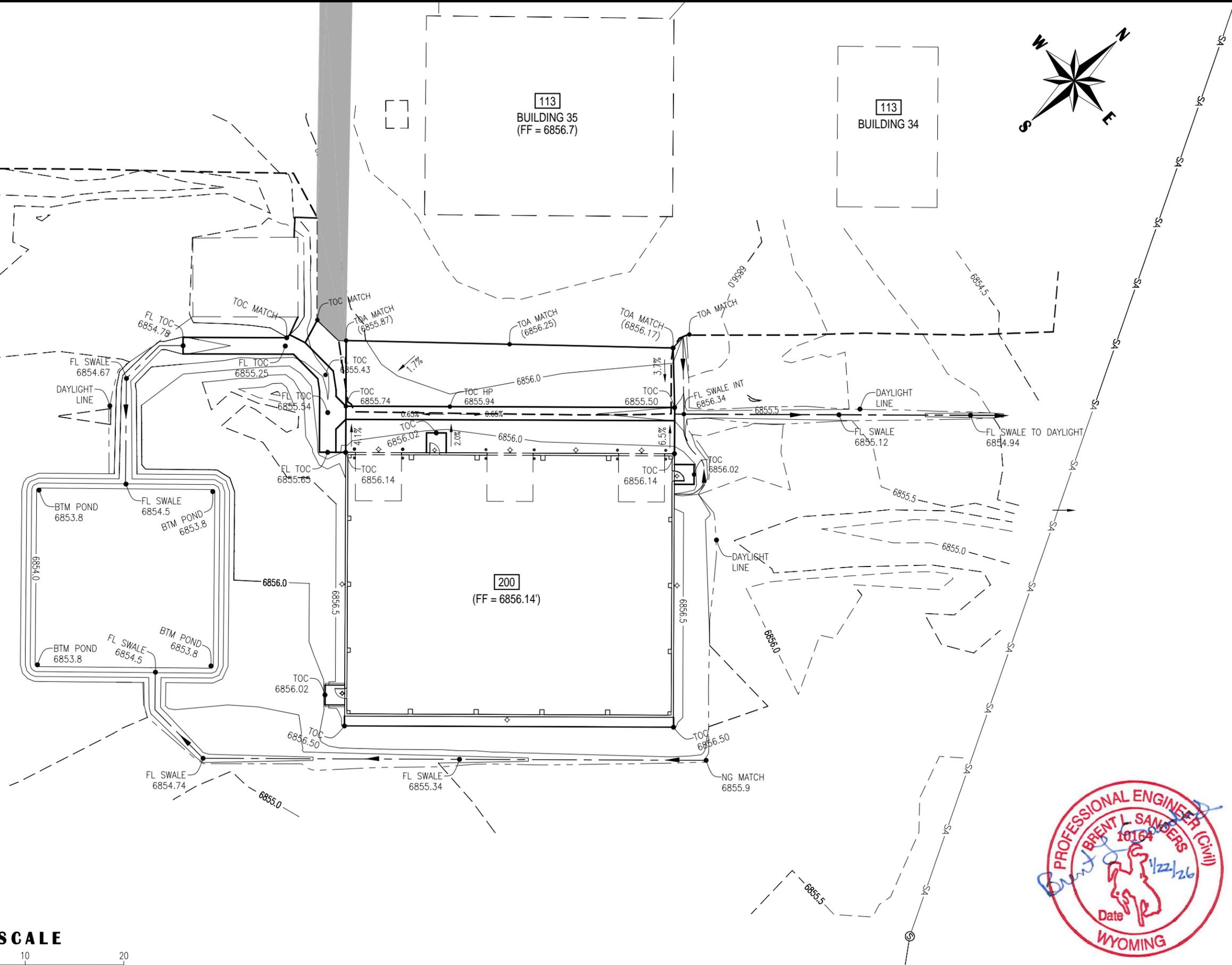
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Drawn By: BLS	Date: -	Engr. BLS	Date: -
Chk'd. By: -	Date: -	App'd: OWNERS	Date: -
Project No. 25-11-195	Scale: AS NOTED	SHEET No. <b>C-200</b> REVISION <b>5</b>	

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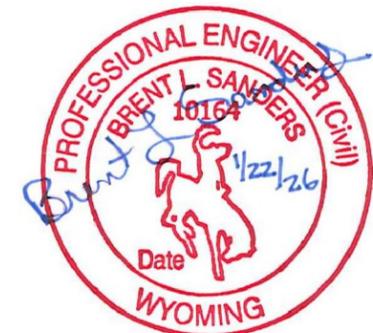
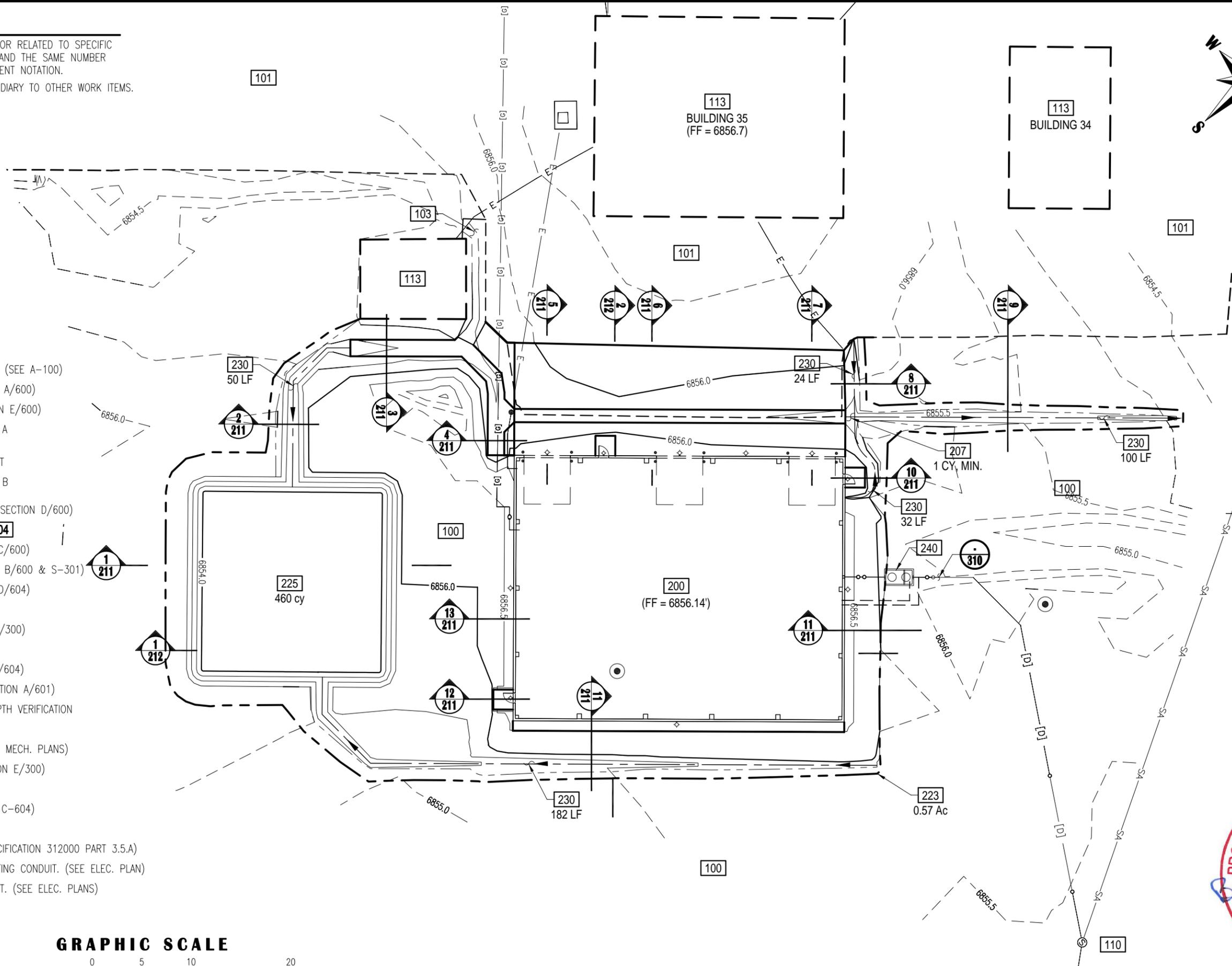
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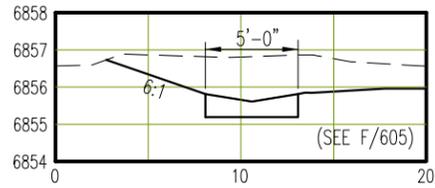


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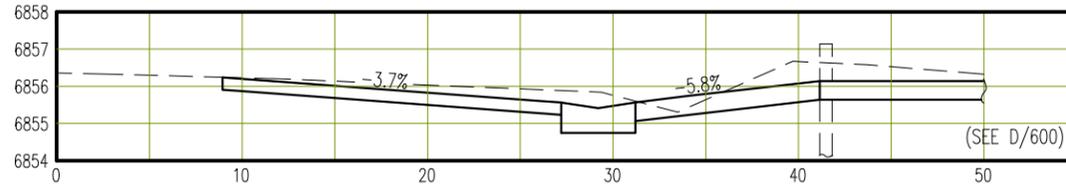
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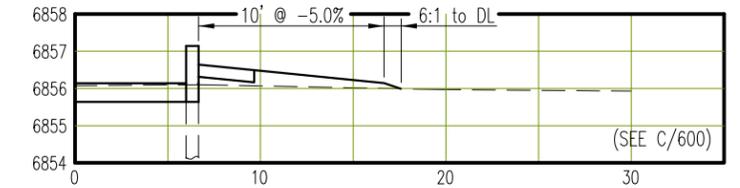
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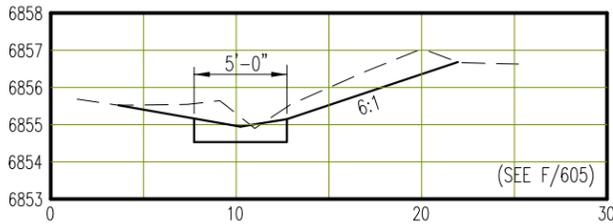
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VERTICAL SCALE 1 = 2



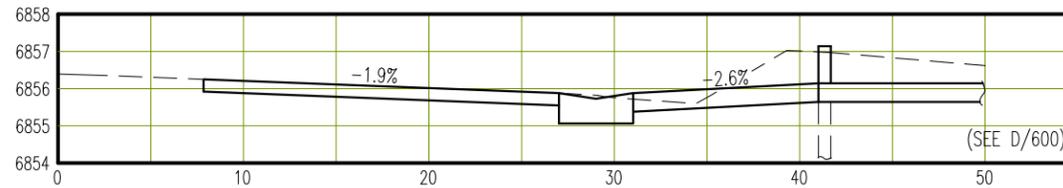
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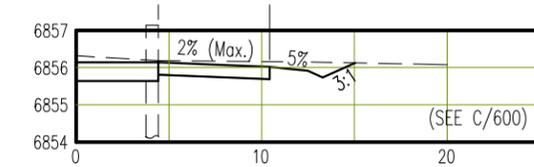
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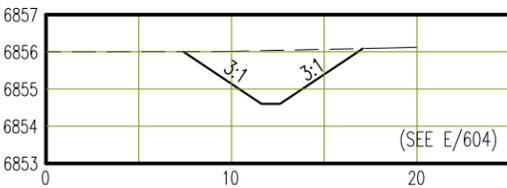
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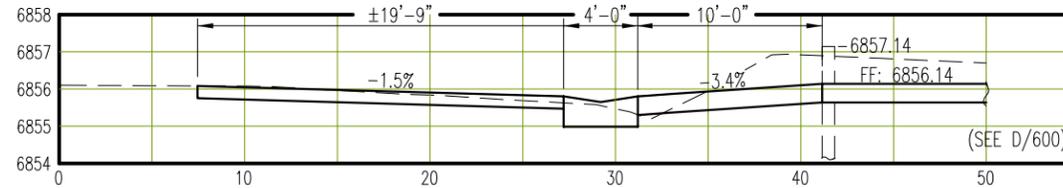
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VERTICAL SCALE 1 = 2



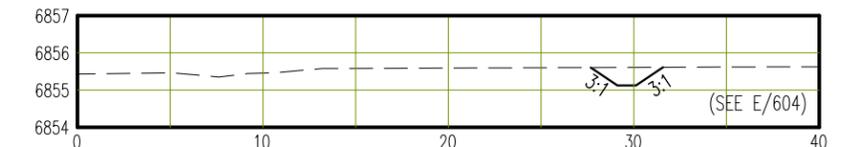
**10 SITE SECTION**  
VERTICAL SCALE 1 = 2



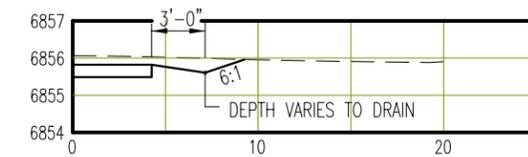
**2 SITE SECTION**  
VERTICAL SCALE 1 = 2



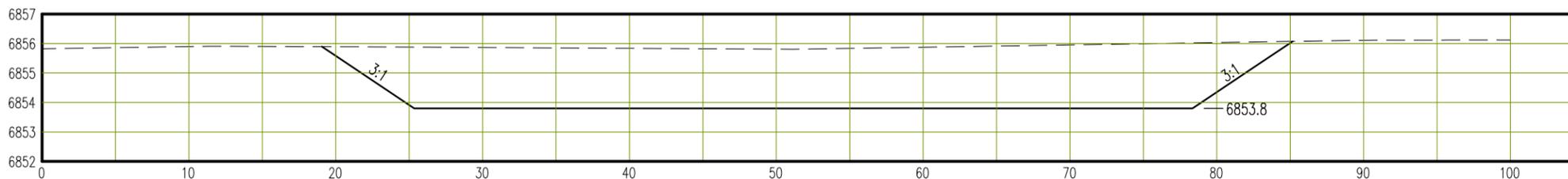
**5 SITE SECTION**  
VERTICAL SCALE 1 = 2



**9 SITE SECTION**  
VERTICAL SCALE 1 = 2



**8 SITE SECTION**  
VERTICAL SCALE 1 = 2



**1 SITE SECTION**  
VERTICAL SCALE 1 = 2

**GRAPHIC SCALE**



ACTUAL PLAN SCALE MAY VARY BASED ON PRINT AND/OR REPRODUCTION METHODS. THE GRAPHIC BAR SCALE BELOW SHOULD BE USED WHEN MEASURING ITEMS ON THIS PLAN. THE ORIGINAL PLAN WAS PRODUCED TO BE PRINTED (11" X 17" MEDIA)

F:\000 STATE METAL BLDG\PEMB BASE R5.DWG 1/15/2026 8:36:34 AM PST

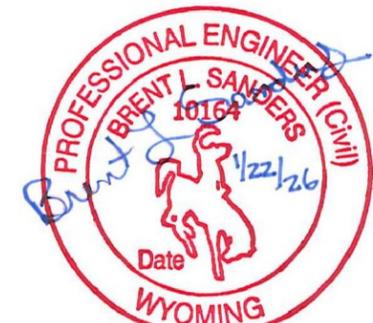


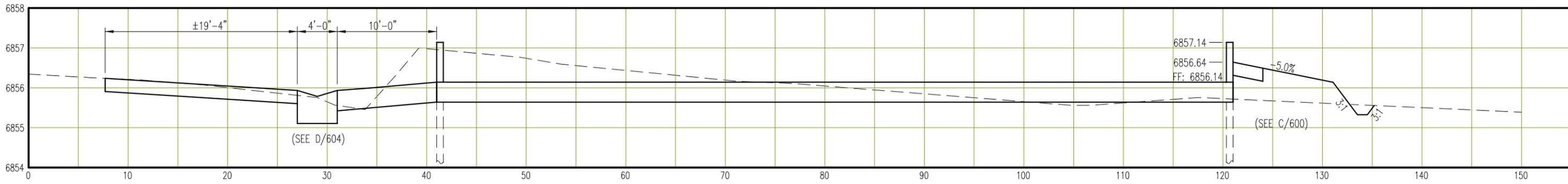
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 DESIGN DEVELOPMENT  
 BIDDING  
 CONSTRUCTION  
 APPROVAL  
 AS BUILT  
 REVISION

No.	REVISIONS	BY	DATE	APPD.
5	100% CONSTRUCTION DOCUMENTS	BLS	01/22/26	NW, BH
4	SOM DESIGN DEVELOPMENT OWNER MEETING	BLS	01/06/26	NW, BH
3	DESIGN DEVELOPMENT, UTILITY DESIGN, ADD FIRE HYDRANT	BLS	12/23/25	-
2	DESIGN DEVELOPMENT, GRADING AND STORM DRAINAGE	BLS	12/16/25	-
1	DESIGN DEVELOPMENT, SHIFT PEMB LOCATION	BLS	12/09/25	-
0	PEMB FEATURES FOR OWNER APPROVAL	BLS	11/20/25	-

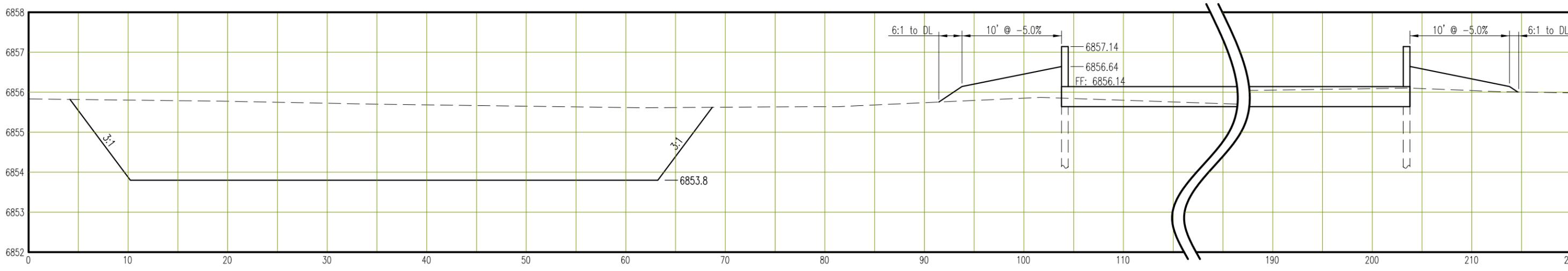
  

Drawn By: BLS Date: Engr: BLS Date: SHEET No.		TITLE: WYOMING STATE CONSTRUCTION DEPT. PRE-ENGINEERED METAL BUILDING PROPOSED SITE SECTIONS	
Chk'd. By: Date: App'd: OWNERS Date: Project No. 25-11-195	Scale: AS NOTED	10164 1/22/26 Date	REVISION <b>C-211 5</b>





**2 SITE SECTION**  
 -- VERTICAL SCALE 1 = 4



**1 SITE SECTION**  
 -- VERTICAL SCALE 1 = 4



**GRAPHIC SCALE**



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 DESIGN DEVELOPMENT  
 BIDDING  
 CONSTRUCTION  
 APPROVAL  
 AS BUILT  
 REVISION

No.	REVISIONS	BY	DATE	APPD.
5	100% CONSTRUCTION DOCUMENTS	BLS	01/22/26	NW, BH
4	SOW DESIGN DEVELOPMENT OWNER MEETING	BLS	01/06/26	NW, BH
3	DESIGN DEVELOPMENT, UTILITY DESIGN, ADD FIRE HYDRANT	BLS	12/23/25	-
2	DESIGN DEVELOPMENT, GRADING AND STORM DRAINAGE	BLS	12/16/25	-
1	DESIGN DEVELOPMENT, SHIFT PEMB LOCATION	BLS	12/09/25	-
0	PEMB FEATURES FOR OWNER APPROVAL	BLS	11/20/25	-

TITLE			
WYOMING STATE CONSTRUCTION DEPT. PRE-ENGINEERED METAL BUILDING PROPOSED SITE SECTIONS			
Drawn By: BLS	Date: -	Engr: BLS	Date: -
Chk'd. By: -	Date: -	App'd: OWNERS	Date: -
Project No. 25-11-195	Scale AS NOTED	SHEET No.	REVISION
		<b>C-212</b>	<b>5</b>

# KEYNOTES

NOTES ARE NOT IN ANY SPECIFIC ORDER OR RELATED TO SPECIFIC WORK. SOME NUMBERS MAY BE SKIPPED AND THE SAME NUMBER ON MULTIPLE SHEETS MAY HAVE A DIFFERENT NOTATION.

\* INDICATES WORK THAT SHALL BE SUBSIDIARY TO OTHER WORK ITEMS.

## EXISTING

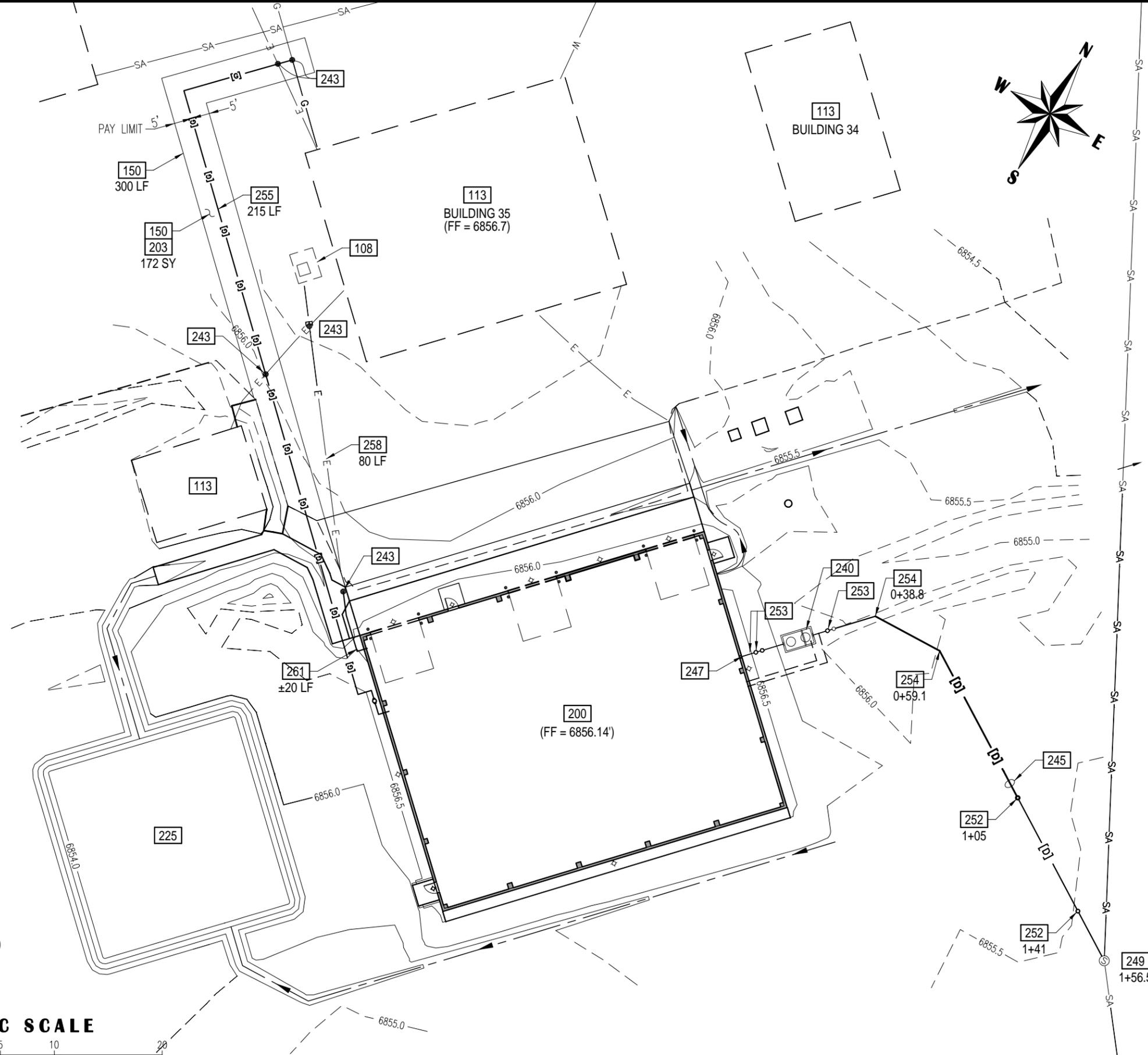
- 100** NATIVE VEGETATION
- 101** ASPHALT PAVEMENT
- 103** CONCRETE DOUBLE GUTTER
- 104** CONCRETE SIDEWALK
- 105** WEATHER STATION
- 108** ELECTRICAL TRANSFORMER
- 110** SANITARY SEWER MANHOLE
- 113** METAL BUILDING

## DEMOLITION

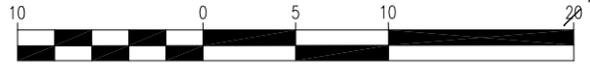
- 150** DEMOLISH ASPHALT PAVEMENT
- \* **152** DEMOLISH CONCRETE SIDEWALK
- \* **154** SAW CUT

## PROPOSED

- 200** PRE-ENGINEERED METAL BUILDING (SEE A-100)
- 203** ASPHALT PAVEMENT (SEE SECTION A/600)
- \* **204** CONCRETE SIDEWALK (SEE SECTION E/600)
- 205** CONCRETE DOUBLE GUTTER, TYPE A (SEE SECTION D/600)
- \* **207** 8"Ø TO 12"Ø RIP RAP OUT OUTLET
- 208** CONCRETE DOUBLE GUTTER, TYPE B (SEE SECTION F/600)
- 210** CONCRETE SLAB ON GRADE (SEE SECTION D/600)
- \* **213** CONCRETE IN-FILL. SIMILAR TO **204**
- 216** CONCRETE APRON (SEE SECTION C/600)
- 220** CONCRETE LANDING (SEE SECTION B/600 & S-301)
- \* **221** CMU BLOCK WALL (SEE SECTION D/604)
- 223** GRUBBING LIMITS
- 225** RETENTION POND (SEE SECTION E/300)
- \* **227** SPOIL STOCKPILE
- 230** DRAINAGE SWALE (SEE SECTION E/604)
- 240** SAND-OIL INTERCEPTOR (SEE SECTION A/601)
- \* **243** POT HOLE EXITING UTILITY FOR DEPTH VERIFICATION
- 245** PVC DRAIN PIPE (SEE C-310)
- \* **247** TIE TO BUILDING DRAIN PIPE (SEE MECH. PLANS)
- \* **249** TIE TO Ex. MANHOLE. (SEE SECTION E/300)
- 252** CLEANOUT (SEE SECTION C/604)
- 253** DOUBLE CLEANOUT (SEE SECTION C-604)
- \* **254** PIPE BEND (FITTING)
- 255** NATURAL GAS SERVICE. (SEE SPECIFICATION 312000 PART 3.5.A)
- 258** ELECTRICAL SERVICE. REUSE EXISTING CONDUIT. (SEE ELEC. PLAN)
- 261** ELECTRICAL SERVICE. NEW CONDUIT. (SEE ELEC. PLANS)
- 264** FIRE HYDRANT LATERAL
- 267** D.I. TEE
- 268** FIRE HYDRANT (SEE B/602)
- 271** WATER VALVE (SEE A/602)
- 275** BOLLARD (SEE B/603)



## GRAPHIC SCALE



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- PRELIMINARY
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- BIDDING
- CONSTRUCTION
- APPROVAL
- AS BUILT
- REVISION

No.	REVISIONS	BY	DATE	APPD.
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4	SOW DESIGN DEVELOPMENT OWNER MEETING	BLS	01/06/26	NW, BH
3	DESIGN DEVELOPMENT, UTILITY DESIGN, ADD FIRE HYDRANT	BLS	12/23/25	-
2	DESIGN DEVELOPMENT, GRADING AND STORM DRAINAGE	BLS	12/16/25	-
1	DESIGN DEVELOPMENT, SHIFT PEMB LOCATION	BLS	12/09/25	-
0	PEMB FEATURES FOR OWNER APPROVAL	BLS	11/20/25	-

TITLE				WYOMING STATE CONSTRUCTION DEPT.	
PRE-ENGINEERED METAL BUILDING				PROPOSED SITE UTILITY PLAN	
Drawn By:	BLS	Date:	-	Engr. BLS	Date:
Chk'd. By:	-	Date:	-	App'd: OWNERS	Date:
Project No. 25-11-195				Scale:	AS NOTED
				SHEET No.	REVISION
				<b>C-300</b>	<b>5</b>

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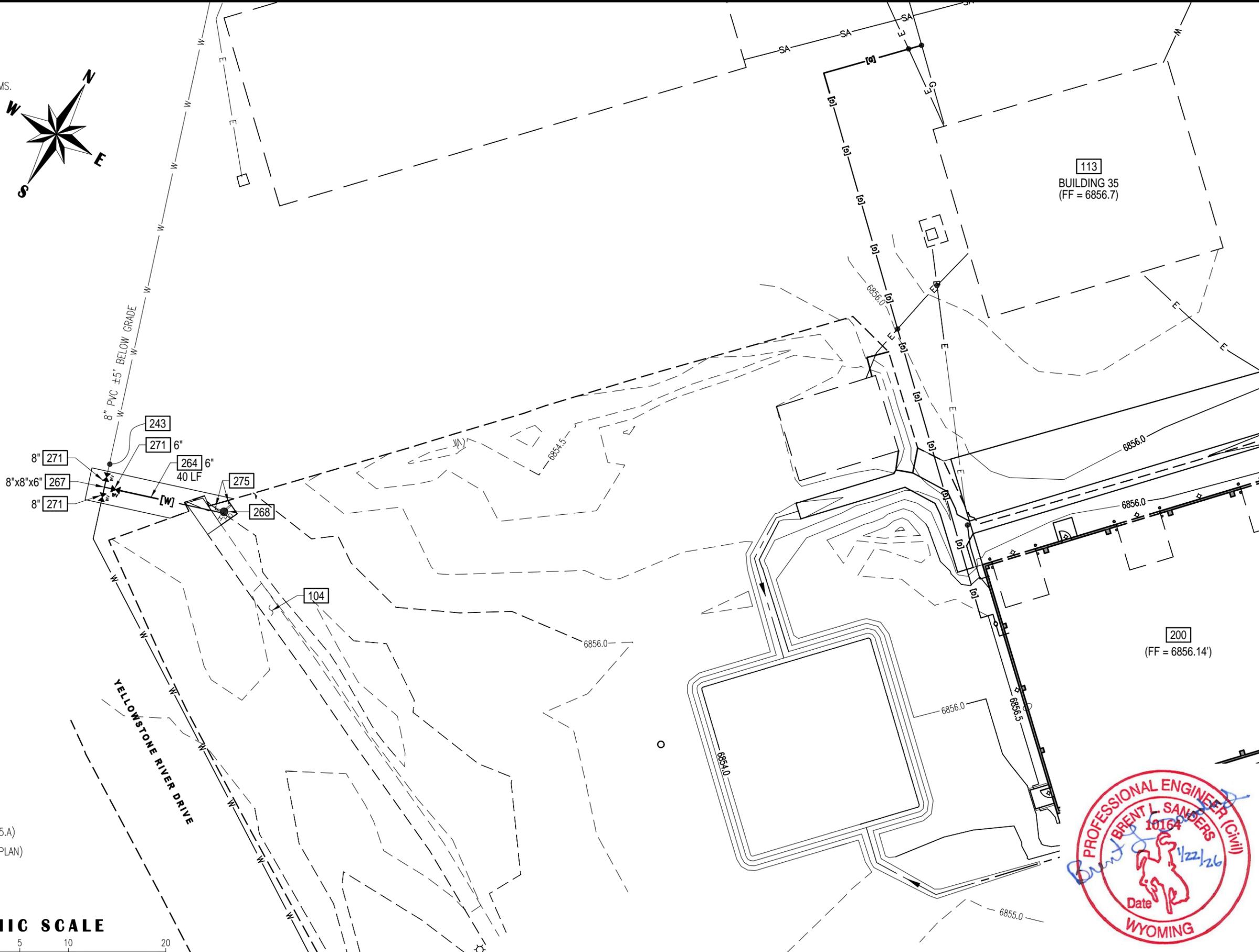
- 100** NATIVE VEGETATION
- 101** ASPHALT PAVEMENT
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- 104** CONCRETE SIDEWALK
- 105** WEATHER STATION
- 108** ELECTRICAL TRANSFORMER
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- 113** METAL BUILDING

## DEMOLITION

- 150** DEMOLISH ASPHALT PAVEMENT
- \* **152** DEMOLISH CONCRETE SIDEWALK
- \* **154** SAW CUT

## PROPOSED

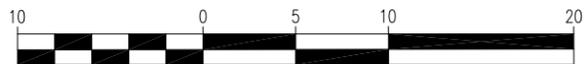
- 200** PRE-ENGINEERED METAL BUILDING (SEE A-100)
- 203** ASPHALT PAVEMENT (SEE SECTION A/600)
- \* **204** CONCRETE SIDEWALK (SEE SECTION E/600)
- 205** CONCRETE DOUBLE GUTTER, TYPE A (SEE SECTION D/600)
- \* **207** 8"Ø TO 12"Ø RIP RAP OUTLET
- 208** CONCRETE DOUBLE GUTTER, TYPE B (SEE SECTION F/600)
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- 216** CONCRETE APRON (SEE SECTION C/600)
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- 245** PVC DRAIN PIPE (SEE C-310)
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- 252** CLEANOUT (SEE SECTION C/604)
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- 264** FIRE HYDRANT LATERAL
- 267** D.I. TEE
- 268** FIRE HYDRANT (SEE B/602)
- 271** WATER VALVE (SEE A/602)
- 275** BOLLARD (SEE B/603)



**113**  
BUILDING 35  
(FF = 6856.7)

**200**  
(FF = 6856.14')

## GRAPHIC SCALE



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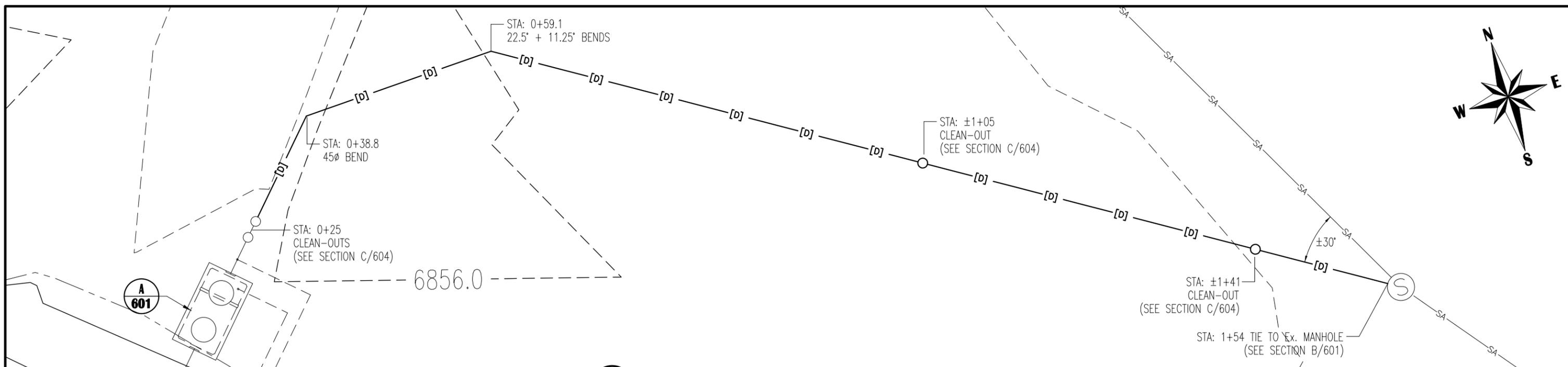


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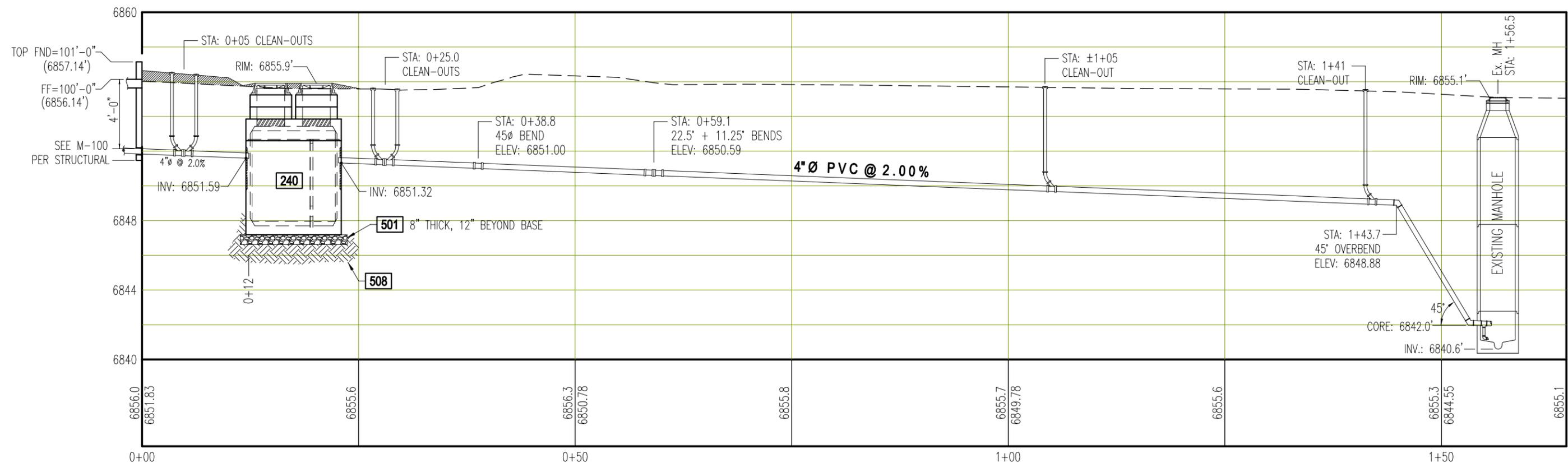
- PRELIMINARY
- DESIGN DEVELOPMENT
- BIDDING
- CONSTRUCTION
- APPROVAL
- AS BUILT
- REVISION

No.	REVISIONS	BY	DATE	APPD.
5	100% CONSTRUCTION DOCUMENTS	BLS	01/22/26	NW, BH
4	SOW DESIGN DEVELOPMENT OWNER MEETING	BLS	01/06/26	NW, BH
3	DESIGN DEVELOPMENT, UTILITY DESIGN, ADD FIRE HYDRANT	BLS	12/23/25	-
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1	DESIGN DEVELOPMENT, SHIFT PEMB LOCATION	BLS	12/09/25	-
0	PEMB FEATURES FOR OWNER APPROVAL	BLS	11/20/25	-

TITLE			
WYOMING STATE CONSTRUCTION DEPT. PRE-ENGINEERED METAL BUILDING PROPOSED SITE UTILITY PLAN			
Drawn By: BLS	Date: -	Engr: BLS	Date: -
Chk'd. By: -	Date: -	App'd: OWNERS	Date: -
Project No. 25-11-195	Scale: AS NOTED	SHEET No. <b>C-301</b> REVISION <b>5</b>	

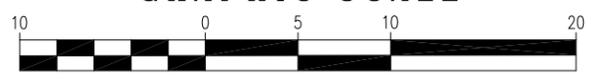


**1 PROPOSED DRAIN PIPE**  
PLAN VIEW - SCALE: 1 = 10



**2 PROPOSED DRAIN PIPE**  
PROFILE VIEW - VERT. SCALE: 1 = 6

**GRAPHIC SCALE**



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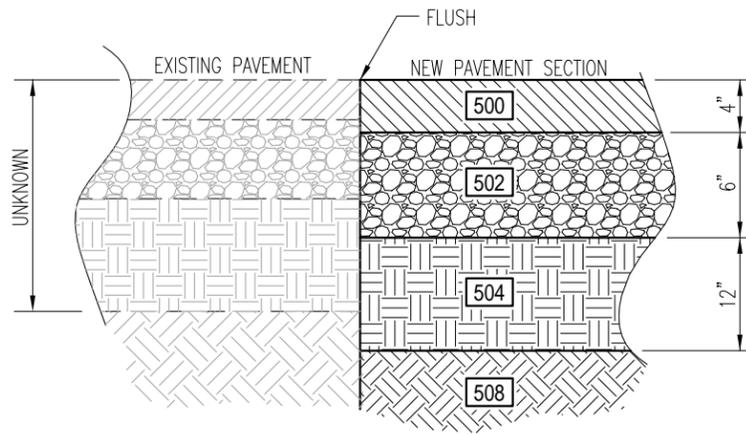


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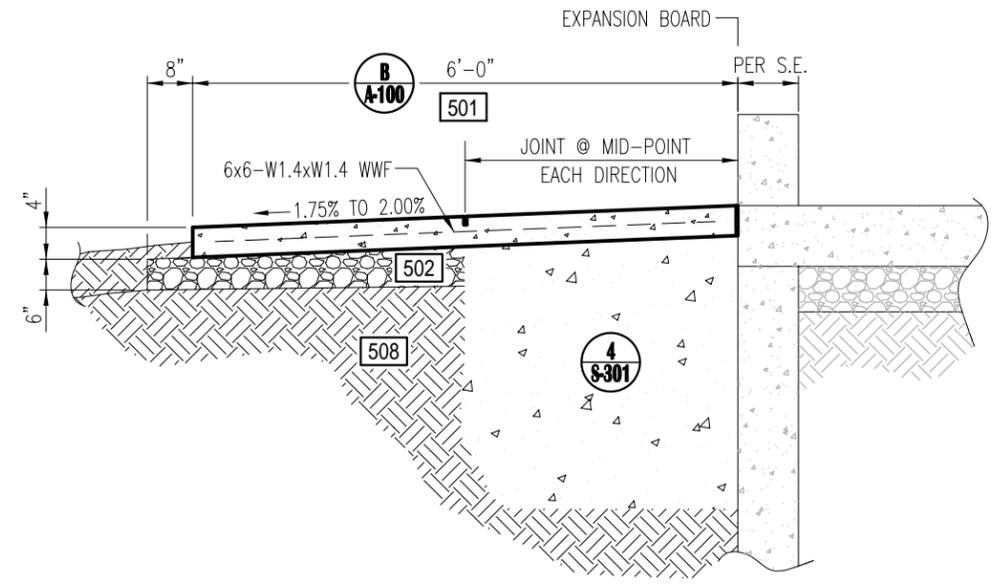
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No.	REVISIONS	BY	DATE	APPD.
5	100% CONSTRUCTION DOCUMENTS	BLS	01/22/26	NW, BH
4	SOW DESIGN DEVELOPMENT OWNER MEETING	BLS	01/06/26	NW, BH
3	DESIGN DEVELOPMENT, UTILITY DESIGN, ADD FIRE HYDRANT	BLS	12/23/25	-
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1	DESIGN DEVELOPMENT, SHIFT PEMB LOCATION	BLS	12/09/25	-
0	PEMB FEATURES FOR OWNER APPROVAL	BLS	11/20/25	-

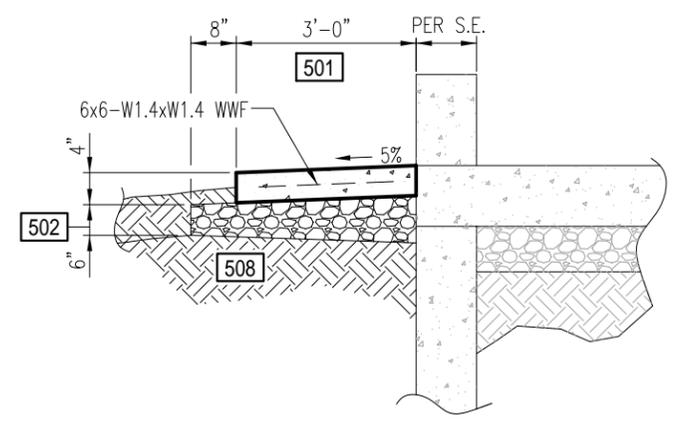
<b>WYOMING STATE CONSTRUCTION DEPT.</b> <b>PRE-ENGINEERED METAL BUILDING</b> <b>PROPOSED DRAIN PIPE PLAN &amp; PROFILE</b>			
Drawn By: BLS	Date: -	Engr: BLS	Date: -
Chk'd. By: -	Date: -	App'd: OWNERS	Date: -
Project No. 25-11-195	Scale: AS NOTED	SHEET No.	REVISION
		<b>C-310</b>	<b>5</b>



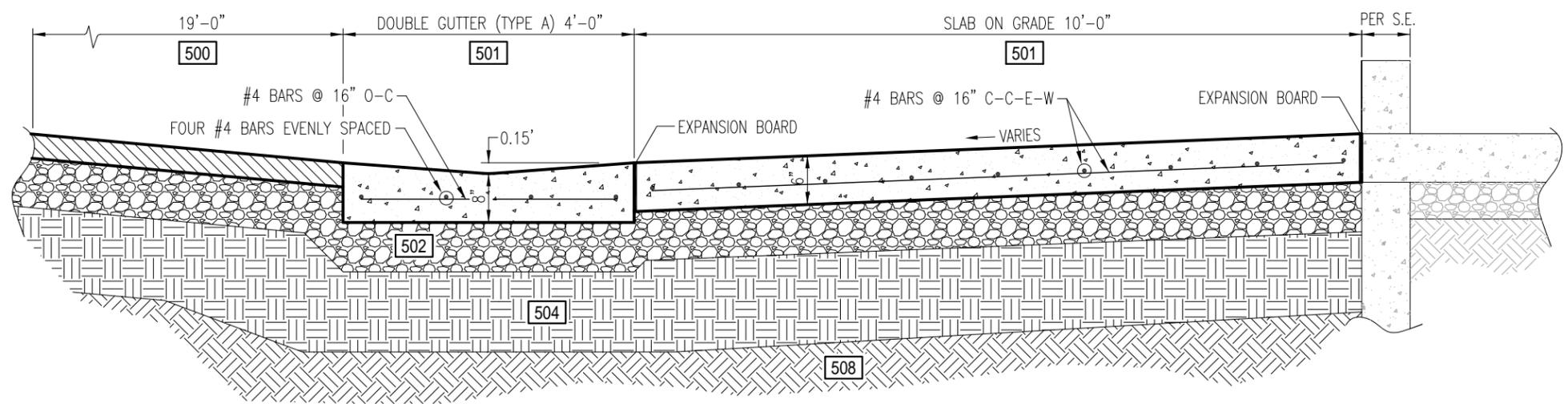
**A** PROPOSED ASPHALT PAVEMENT SECTION  
SECTION VIEW - NOT TO SCALE



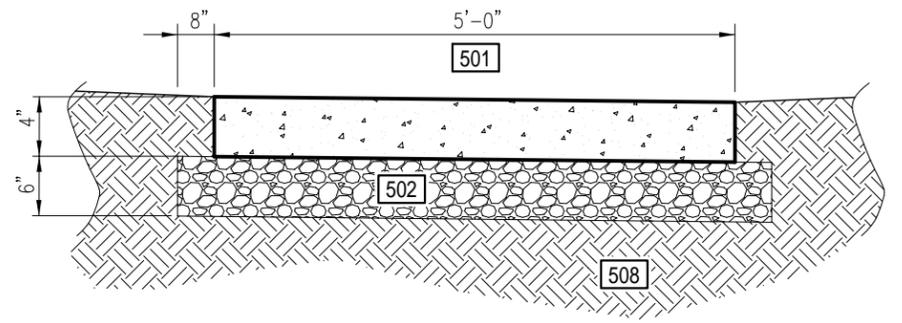
**B** PROPOSED CONCRETE LANDING  
SECTION VIEW - NOT TO SCALE



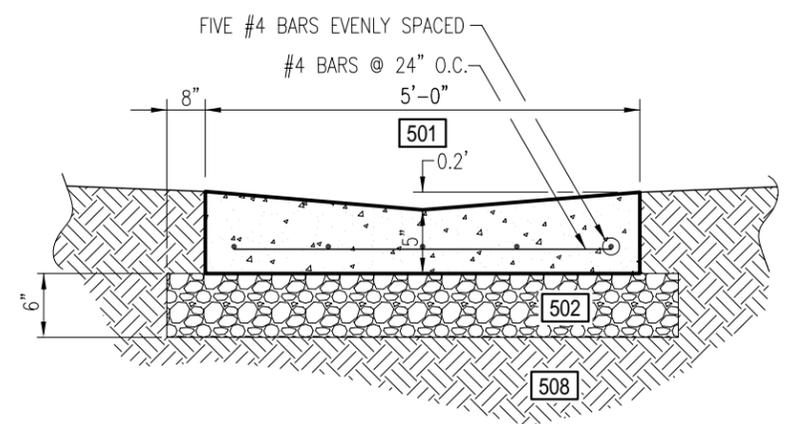
**C** PROPOSED CONCRETE APRON  
SECTION VIEW - NOT TO SCALE



**D** PROPOSED PAVEMENT/CONCRETE  
SECTION VIEW - NOT TO SCALE



**E** PROPOSED CONCRETE SIDEWALK  
SECTION VIEW - NOT TO SCALE

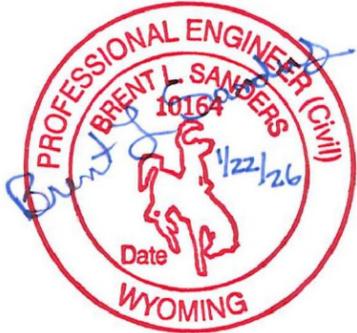


**F** PROPOSED CONCRETE DOUBLE GUTTER  
(TYPE B) SECTION VIEW - NOT TO SCALE

**KEYNOTES**

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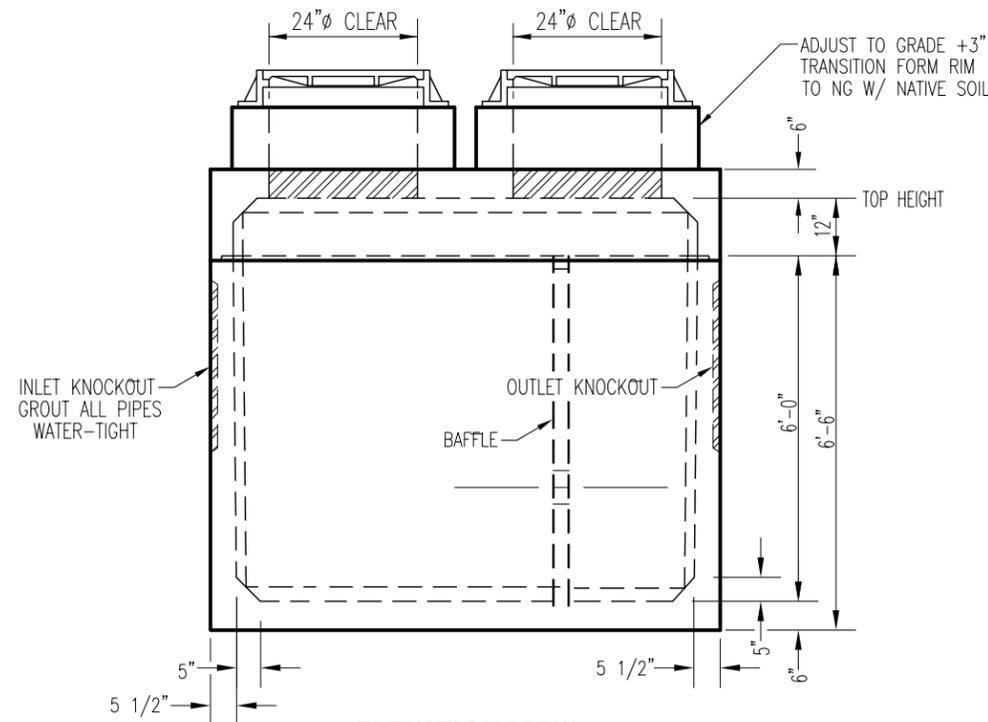
- PROPOSED
- 500 ASPHALT PAVEMENT
  - 501 BATCH PLANT CONCRETE
  - 502 BASE COURSE
  - 504 SUBBASE COURSE
  - 508 SUBGRADE (NATIVE SOIL)



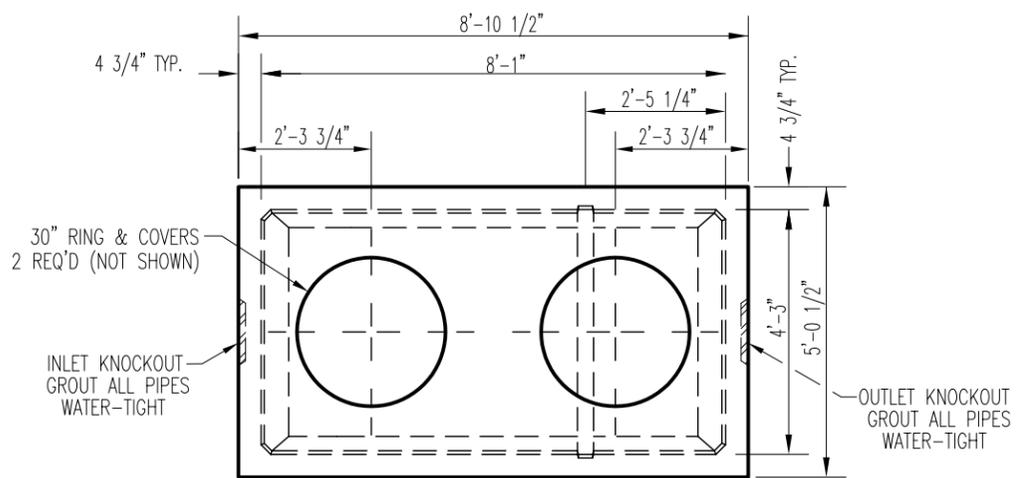
PRINTED: 01/22/2026 FOR DATE  
 PRELIMINARY  
 DESIGN DEVELOPMENT  
 BIDDING  
 CONSTRUCTION  
 APPROVAL  
 AS BUILT  
 REVISION

No.	DESCRIPTION	BY	DATE	APPD.
5	100% CONSTRUCTION DOCUMENTS	BLS	01/22/26	NW, BH
4	50% DESIGN DEVELOPMENT OWNER MEETING	BLS	01/06/26	NW, BH
3	DESIGN DEVELOPMENT, UTILITY DESIGN, ADD FIRE HYDRANT	BLS	12/23/25	-
2	DESIGN DEVELOPMENT, GRADING AND STORM DRAINAGE	BLS	12/16/25	-
1	DESIGN DEVELOPMENT, SHIFT PEMB LOCATION	BLS	12/09/25	-
0	PEMB FEATURES FOR OWNER APPROVAL	BLS	11/20/25	-

TITLE				SHEET No.		REVISION	
WYOMING STATE CONSTRUCTION DEPT. PRE-ENGINEERED METAL BUILDING SECTIONS and DETAILS				C-600		5	
Drawn By:	BLS	Date:	-	Engr.:	BLS	Date:	-
Chk'd. By:	-	Date:	-	App'd.:	OWNERS	Date:	-
Project No. 25-11-195				Scale:		AS NOTED	



**ELEVATION VIEW**



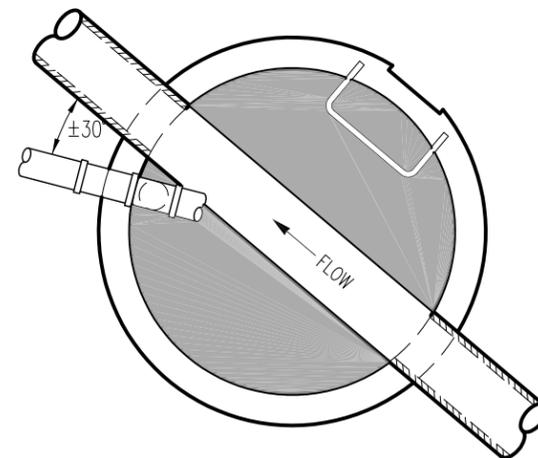
**PLAN VIEW**

**A SAND-OIL INTERCEPTOR  
-- OLDCASTLE PRECAST**

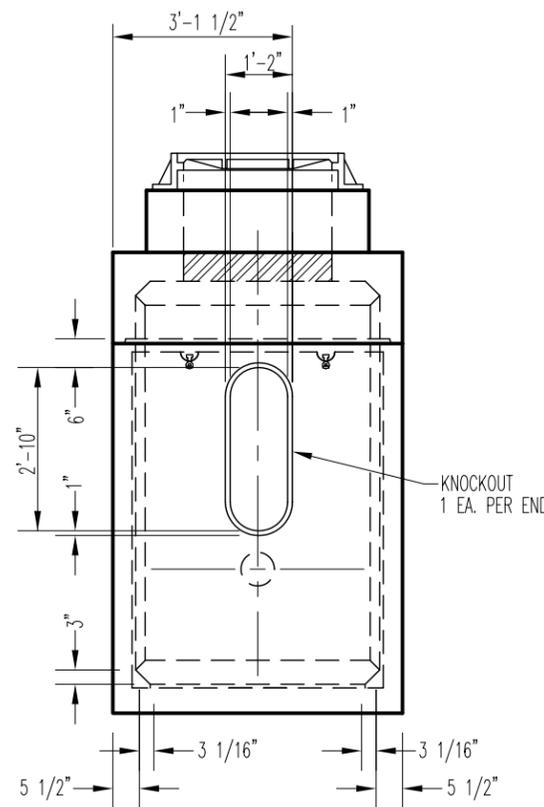
MODEL: 48 GREASE TRAP (1,250 GALLON)  
(OR APPROVED EQUAL). SUBMITAL REQUIRED

**SAND-OIL INTERCEPTOR NOTES:**

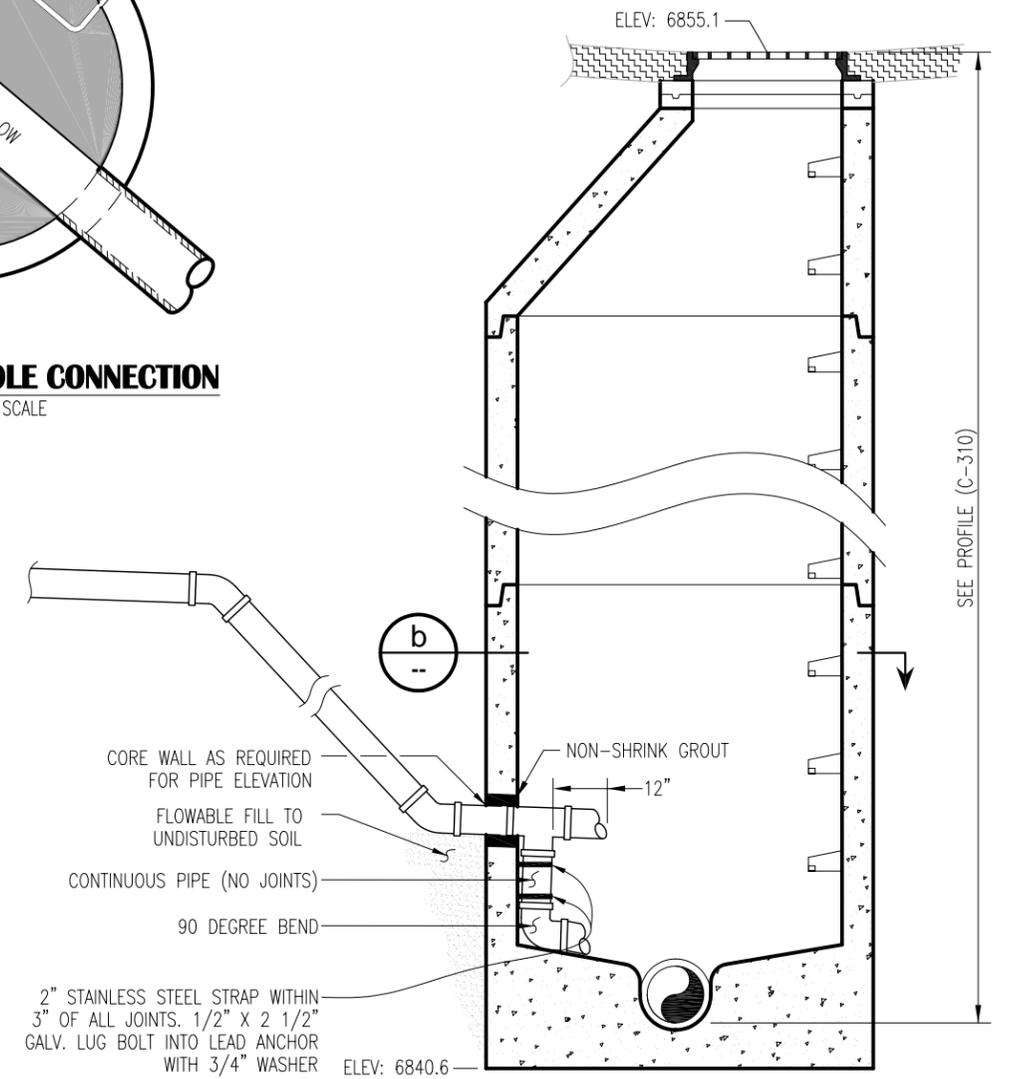
- 1.) CONTRACTOR TO GROUT BAFFLES IN PLACE.
- 2.) CONTRACTOR TO FILL ALL LIFT INSERT RECESSES WITH GROUT PRIOR TO BACKFILL.
- 3.) CONTRACTOR MUST FILL THE SEPARATOR UNIT WITH CLEAN WATER BEFORE IT IS PUT INTO SERVICE.
- 4.) LIFTING INSERT TYPE AND LOCATION MAY CHANGE WITHOUT NOTICE.



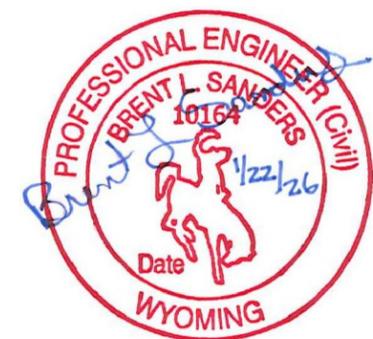
**b DROP MANHOLE CONNECTION  
-- PLAN VIEW - NOT TO SCALE**



**END VIEW**



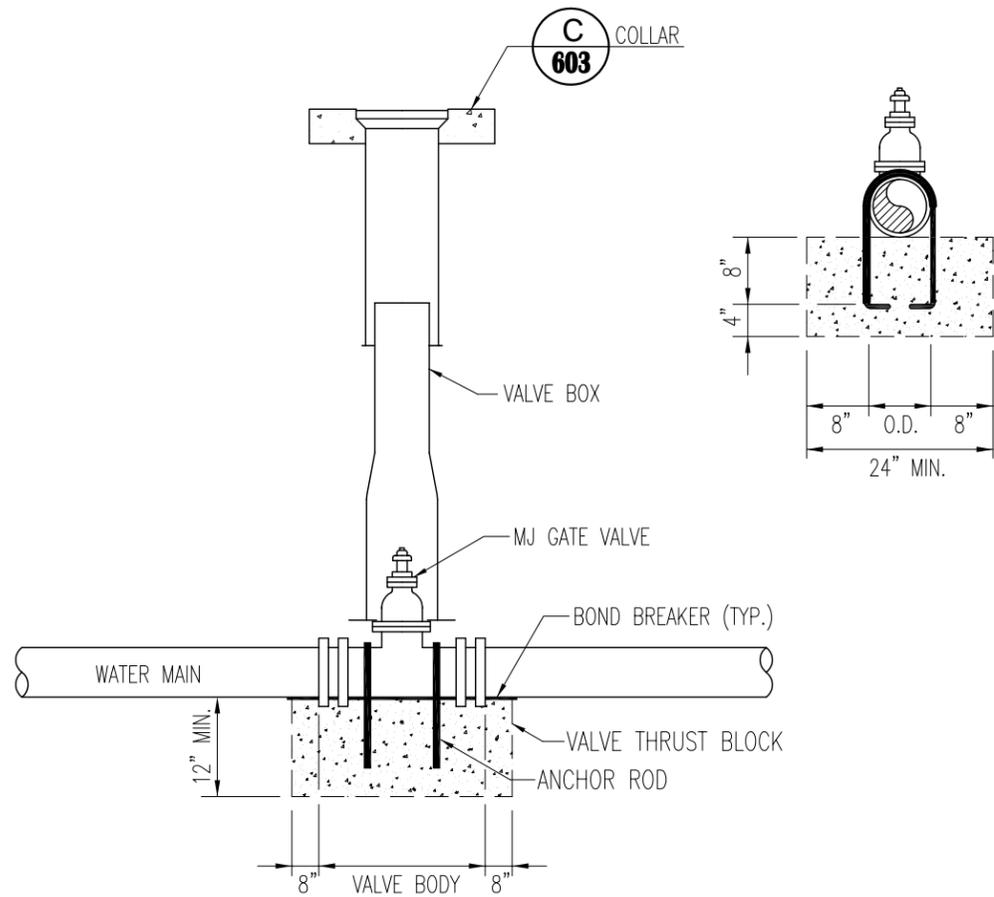
**B DROP MANHOLE CONNECTION  
-- SECTION VIEW - NOT TO SCALE**



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2	DESIGN DEVELOPMENT, GRADING AND STORM DRAINAGE	BLS	12/16/25	-
1	DESIGN DEVELOPMENT, SHIFT PEMB LOCATION	BLS	12/09/25	-
0	PEMB FEATURES FOR OWNER APPROVAL	BLS	11/20/25	-

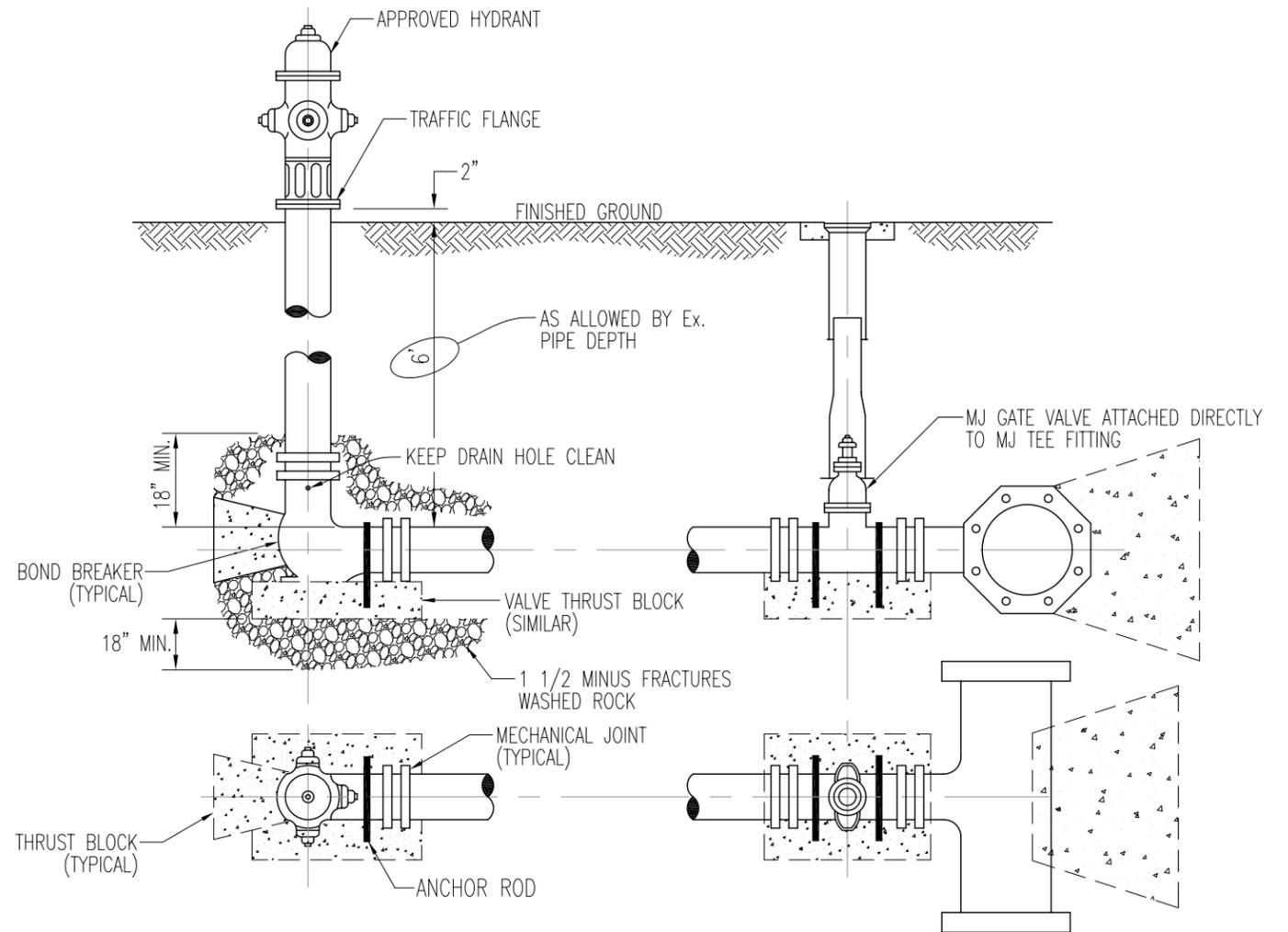
TITLE			
WYOMING STATE CONSTRUCTION DEPT. PRE-ENGINEERED METAL BUILDING SECTIONS and DETAILS			
Drawn By: BLS	Date: -	Engr: BLS	Date: -
Chk'd. By: -	Date: -	App'd: OWNERS	Date: -
Project No. 25-11-195	Scale: AS NOTED	SHEET No.	REVISION
		<b>C-601</b>	<b>5</b>



**A** TYPICAL VALVE INSTALLATION  
SECTION VIEW - NOT TO SCALE

**VALVE INSTALLATION NOTES**

- 1.) STAINLESS STEEL BOLTS AND HARDWARE REQUIRED.
- 2.) ANCHOR RODS SHALL BE 5/8"Ø (MIN.) STAINLESS STEEL WITH 4" END BENDS. WET-SET. ROD INNER RADIUS SHALL CLOSELY MATCH THE OUTER RADIUS OF THE VALVE BODY.



**B** TYPICAL HYDRANT INSTALLATION  
SECTION VIEW - NOT TO SCALE

**VALVE & TRACE WIRE NOTES**

HYDRANTS SHALL BE MUELLER SUPER CENTURION 250. CATALOG NUMBER A-423.  
3-WAY HYDRANT WITH 5 1/4" MAIN VALVE OPENING

STAINLESS STEEL BOLTS AND HARDWARE REQUIRED.

ANCHOR RODS SHALL BE 5/8"Ø (MIN.) STAINLESS STEEL WITH 4" END BENDS. WET-SET.  
ROD INNER RADIUS SHALL CLOSELY MATCH THE OUTER RADIUS OF THE VALVE BODY/FITTING.



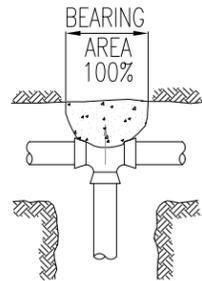
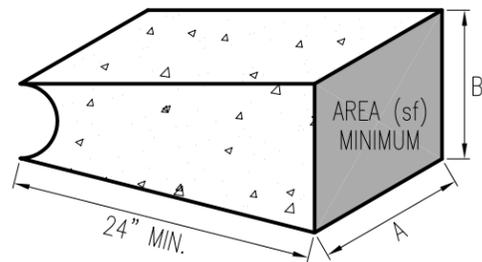
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<input type="checkbox"/> REVISION	

No.	REVISIONS	BY	DATE	APPD.
5	100% CONSTRUCTION DOCUMENTS	BLS	01/22/26	NW, BH
4	SOW DESIGN DEVELOPMENT OWNER MEETING	BLS	01/06/26	NW, BH
3	DESIGN DEVELOPMENT, UTILITY DESIGN, ADD FIRE HYDRANT	BLS	12/23/25	-
2	DESIGN DEVELOPMENT, GRADING AND STORM DRAINAGE	BLS	12/16/25	-
1	DESIGN DEVELOPMENT, SHIFT PEMB LOCATION	BLS	12/09/25	-
0	PEMB FEATURES FOR OWNER APPROVAL	BLS	11/20/25	-

TITLE			
WYOMING STATE CONSTRUCTION DEPT. PRE-ENGINEERED METAL BUILDING SECTIONS and DETAILS			
Drawn By: BLS	Date: -	Engr. BLS	Date: -
Chk'd. By: -	Date: -	App'd: OWNERS	Date: -
Project No. 25-11-195	Scale: AS NOTED	SHEET No. <b>C-602</b> REVISION <b>5</b>	

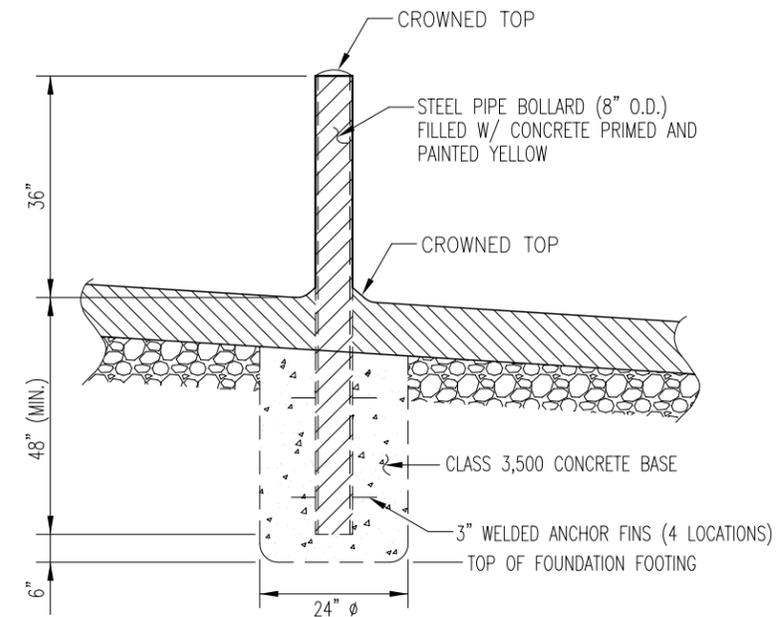
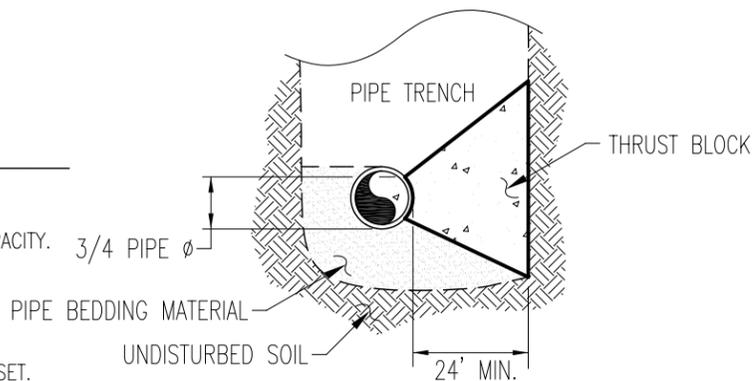
FITTING SIZE	TEES, PLUGS, HYD.		
	A	B	AREA (sf)
8" & 6"	30"	21"	4.3



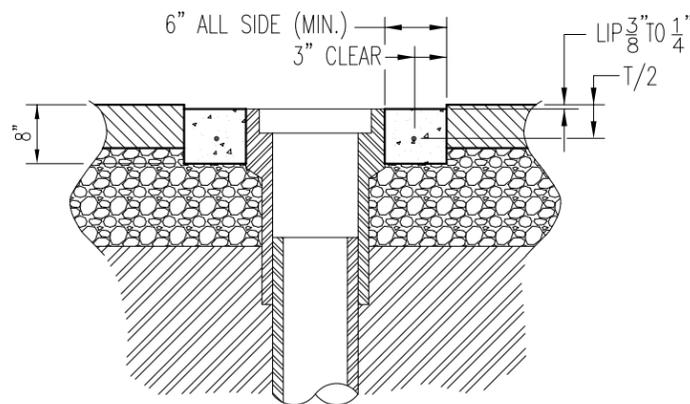
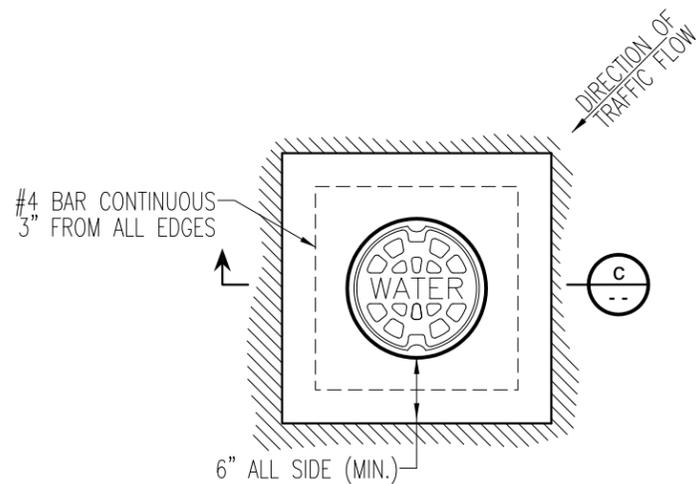
**A TYPICAL THRUST BLOCK DETAIL**  
SECTION VIEW - NOT TO SCALE

**THRUST BLOCK NOTES**

- 1.) POLYWRAP ALL VALVES AND FITTINGS.
- 2.) ALL THRUST BLOCKS SHALL BEAR AGAINST UNDISTURBED, VERTICAL TRENCH WALLS.
- 3.) DESIGN IS BASED ON 150 PSI MAIN PRESSURE AND 2,500 PSF SOIL BEARING CAPACITY.
- 4.) THRUST BLOCK CONCRETE SHALL BE BATCH PLANT CONCRETE.
- 5.) CONCRETE SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF 4,000 PSI.
- 6.) ALL THRUST BLOCK SIDES SHALL BE FORMED.
- 7.) CONCRETE SHALL NOT EXTEND TO THE UNDERSIDE OF PIPE FITTING.
- 9.) ANCHOR RODS SHALL BE 1"Ø (MIN.) STAINLESS STEEL WITH 6" END BENDS. WET-SET. ROD INNER RADIUS SHALL CLOSELY MATH THE OUTER RADIUS OF THE VALVE BODY.
- 10.) IF POOR SOILS ARE ENCOUNTERED, SPECIAL DESIGN IS REQUIRED.



**B BOLLARD**  
SECTION VIEW - NOT TO SCALE

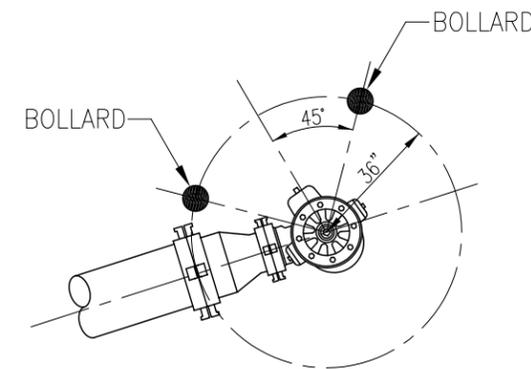


**C VALVE BOX COLLAR**  
PLAN VIEW - NOT TO SCALE

**C VALVE BOX COLLAR**  
SECTION VIEW - NOT TO SCALE

**VALVE BOX COLLAR NOTES**

- 1.) FINAL VALVE BOX ADJUSTMENT SHALL BE MADE AFTER PAVING OPERATIONS AND IN CONJUNCTION WITH CONCRETE COLLAR INSTALLATION.
- 2.) COLLARS WITHOUT PROPER LIP SHALL BE REMOVED AND REPLACED AS DETERMINED AT THE SOLE DISCRETION OF THE ENGINEER.



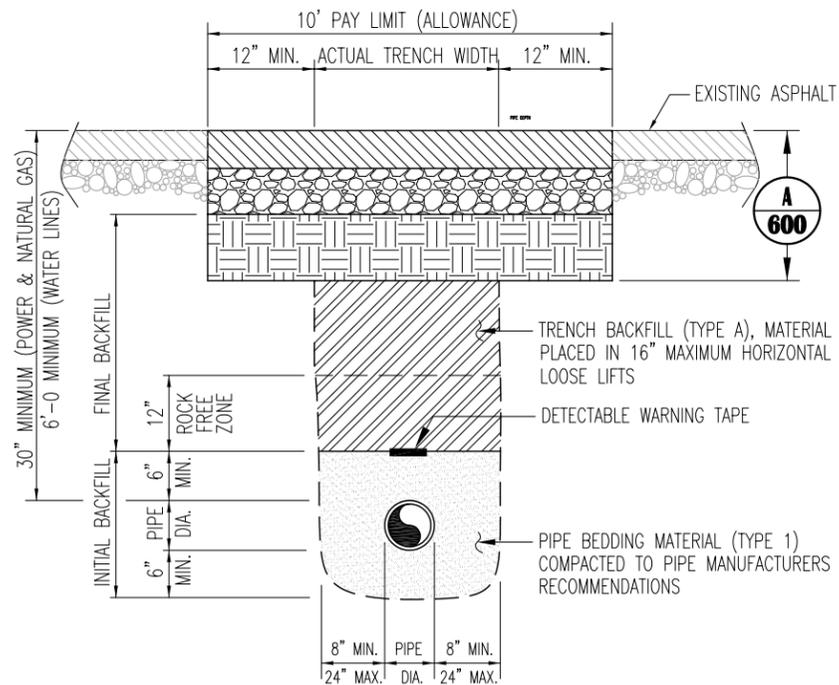
**D BOLLARDS @ HYDRANT**  
PLAN VIEW - NOT TO SCALE



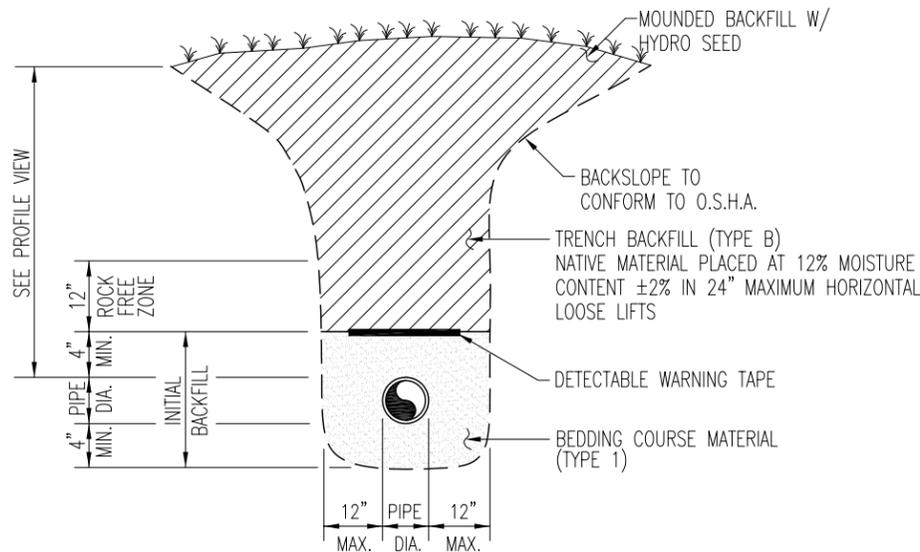
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 DESIGN DEVELOPMENT  
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 CONSTRUCTION  
 APPROVAL  
 AS BUILT  
 REVISION

No.	REVISIONS	BY	DATE	APPD.
5	100% CONSTRUCTION DOCUMENTS	BLS	01/22/26	NW, BH
4	SOW DESIGN DEVELOPMENT OWNER MEETING	BLS	01/06/26	NW, BH
3	DESIGN DEVELOPMENT, UTILITY DESIGN, ADD FIRE HYDRANT	BLS	12/23/25	-
2	DESIGN DEVELOPMENT, GRADING AND STORM DRAINAGE	BLS	12/16/25	-
1	DESIGN DEVELOPMENT, SHIFT PEMB LOCATION	BLS	12/09/25	-
0	PEMB FEATURES FOR OWNER APPROVAL	BLS	11/20/25	-

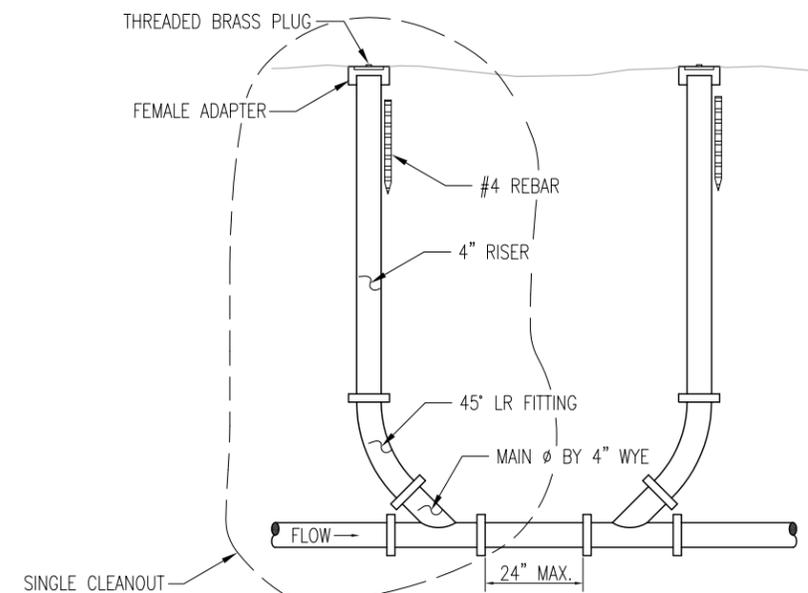
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WYOMING STATE CONSTRUCTION DEPT. PRE-ENGINEERED METAL BUILDING SECTIONS and DETAILS			
Drawn By: BLS	Date: -	Engr: BLS	Date: -
Chk'd. By: -	Date: -	App'd: OWNERS	Date: -
Project No. 25-11-195	Scale: AS NOTED	SHEET No.	REVISION
		<b>C-603</b>	<b>5</b>



**A** **TYPICAL TRENCH (T-CAP)**  
SECTION VIEW - NOT TO SCALE



**B** **NATIVE GRASS AREA TRENCH**  
SECTION VIEW - NOT TO SCALE



**C** **SINGLE/DOUBLE CLEANOUT SECTION**  
SECTION VIEW - NOT TO SCALE

**TRENCH NOTES:**

- 1.) TRENCH EXCAVATION AND BACKFILL PER WYOMING PUBLIC WORKS STANDARD SPECIFICATIONS, SECTION 02220 AND 02225.
- 2.) TRENCH DEWATERING SHALL BE INCIDENTAL TO OTHER WORK UNLESS CALLED OUT OTHERWISE. PUMP OUTLET SHALL BE PROPERLY PLACED AS NOT TO ALLOW PUMPED WATER TO RETURN TO THE TRENCH AND SHALL INCLUDE PROPER OUTLET EROSION CONTROL MEASURES.
- 3.) TRENCH EXCAVATION MATERIALS SHALL BE HAULED AND STOCKPILED ON-SITE AS DIRECTED BY THE OWNER.
- 4.) ALL HARD SURFACES IN TRENCHING AREA SHALL BE REMOVED BY SMOOTH AND STRAIGHT FULL-DEPTH SAW CUTS. ANY EDGED DAMAGED DURING CONSTRUCTION SHALL BE RE-CUT PRIOR TO HARD SURFACE REPLACEMENT. ANY EDGED DAMAGED DURING CONSTRUCTION SHALL BE RE-CUT PRIOR TO HARD SURFACE REPLACEMENT.

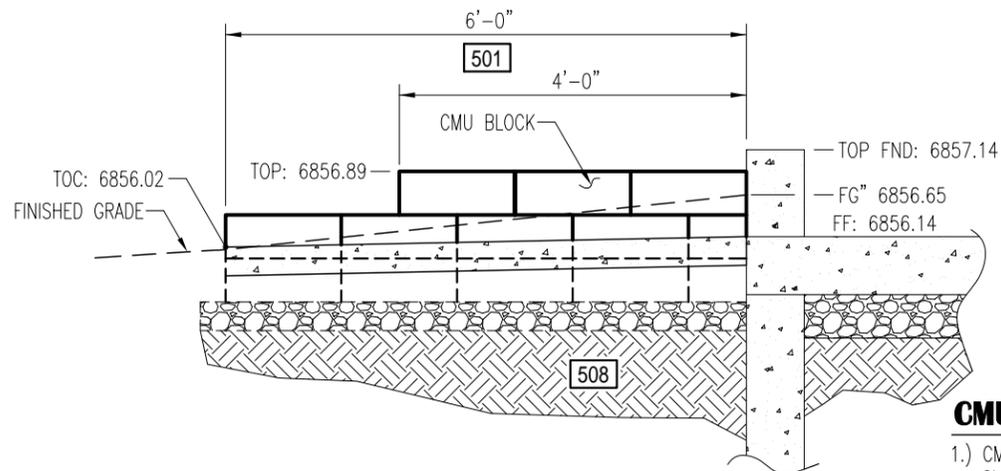
**CLEANOUT NOTES:**

- 1.) NO PIPE SEGMENT SHALL BE SHORTER THAT 36" IF USED AS A CLEAN OUT RISER. NO MORE THAT ONE JOINT SHALL BE INSTALLED IN A PIPE RISER. WHERE PIPE DEPTH IS LESS THAT 7 FEET PIPE RISER SHALL BE ONE CONTINUOUS SEGMENT.
- 2.) 18" LONG #4 REBAR SHALL BE INSTALLED WITHIN 4" OF ALL CLEAN OUT RISERS, SET 2" BELOW FINISHED GRADE.

**KEYNOTES**

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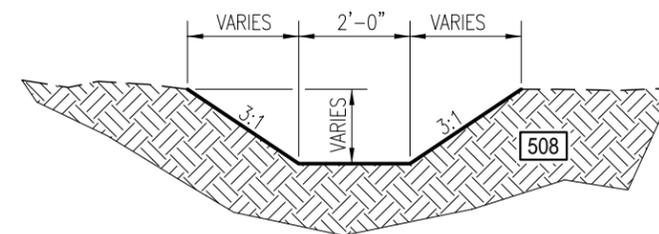
- PROPOSED
- 500 ASPHALT PAVEMENT
  - 501 BATCH PLANT CONCRETE
  - 502 BASE COURSE
  - 504 SUBBASE COURSE
  - 508 SUBGRADE (NATIVE SOIL)



**D** **CMU WALL**  
SECTION VIEW - NOT TO SCALE  
SHOWN: STEP STONE, 16"W x 6"H x 12"D  
BLOCK SUBMITTAL REQUIRED

**CMU WALL NOTES:**

- 1.) CMU BLOCK SHALL BE CHISLED FACE, RECTANGULAR WITH 12" MINIMUM DEPTH. PINNED OR GLUED INSTALLATION.
- 2.) ONE BLOCK ROW SHALL BE INSTALLED BELOW THE SURFACE OF THE CONCRETE DOOR LANDING, SET ON 4" OF COMPACTED CRUSHED BASE.



**E** **TYPICAL DRAINAGE SWALE**  
SECTION VIEW - NOT TO SCALE



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 APPROVAL  
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 REVISION

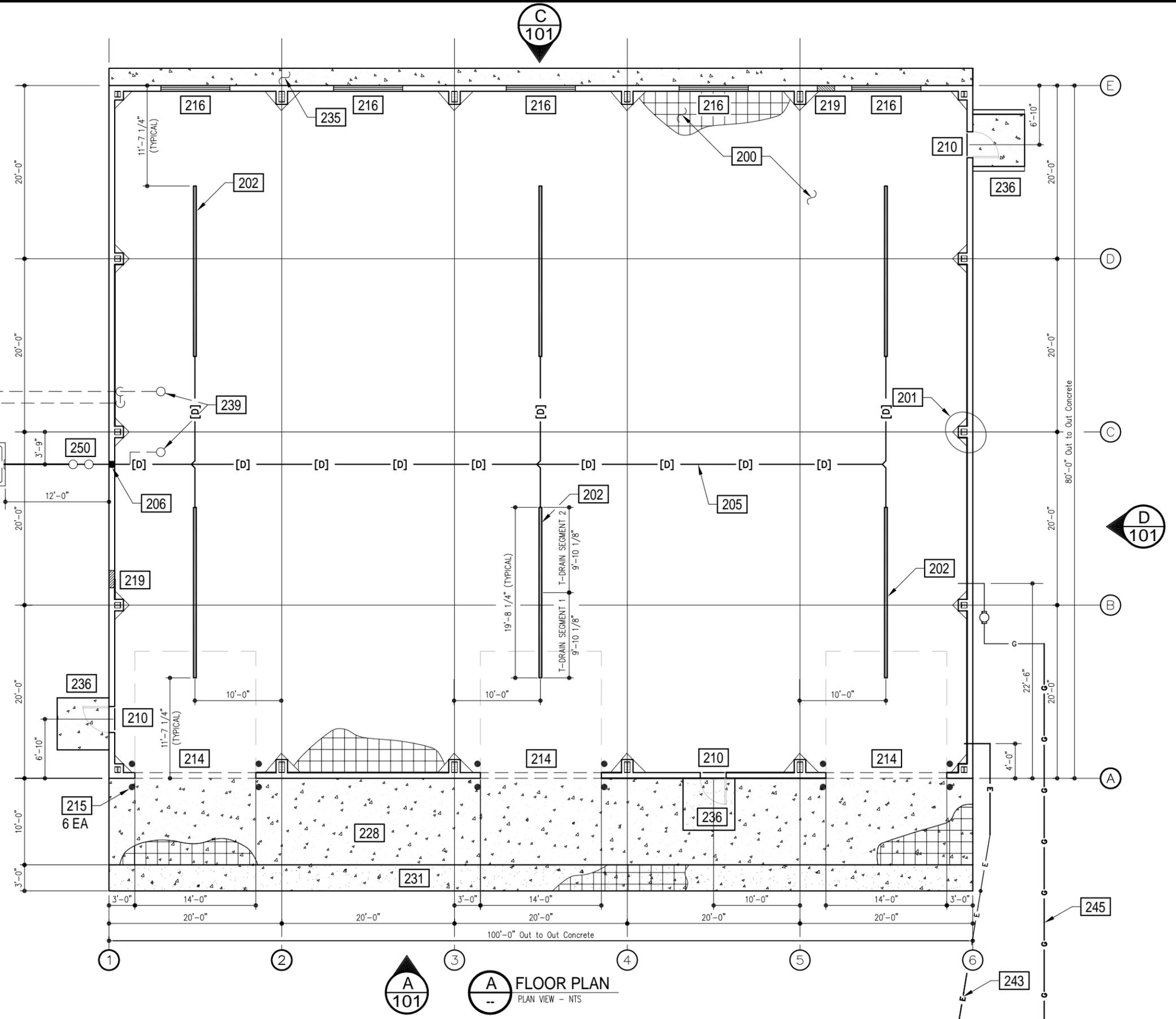
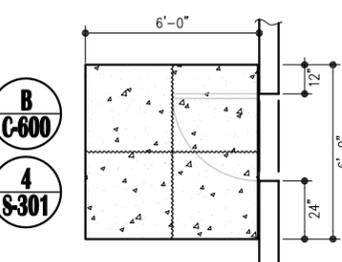
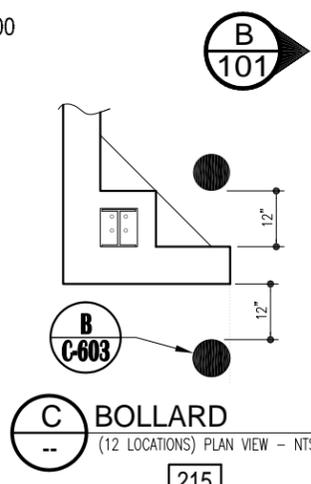
No.	REVISIONS	BY	DATE	APPD.
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3	DESIGN DEVELOPMENT, UTILITY DESIGN, ADD FIRE HYDRANT	BLS	12/23/25	-
2	DESIGN DEVELOPMENT, GRADING AND STORM DRAINAGE	BLS	12/16/25	-
1	DESIGN DEVELOPMENT, SHIFT PEMB LOCATION	BLS	12/09/25	-
0	PEMB FEATURES FOR OWNER APPROVAL	BLS	11/20/25	-

TITLE			
WYOMING STATE CONSTRUCTION DEPT. PRE-ENGINEERED METAL BUILDING SECTIONS and DETAILS			
Drawn By: BLS	Date: -	Engr. BLS	Date: -
Chk'd. By: -	Date: -	App'd: OWNERS	Date: -
Project No. 25-11-195	Scale: AS NOTED	SHEET No. <b>C-604</b> REVISION <b>5</b>	

# KEYNOTES

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PROPOSED

- 200** REINFORCE CONCRETE SLAB (SEE STRUC. PLAN)
- 201** REINFORCE CONCRETE FOUNDATION (SEE STRUC. PLAN)
- 202** TRENCH DRAIN (SEE STRUC. & MECH. PLANS)
- 205** DRAIN LINE (SEE MECH. PLANS)
- 206** 8"Ø SLEEVE (SEE MECH. PLANS & C-310)
- 210** 3'-0" x 6'-8" MAN-DOOR
- 214** 14' x 14' SECTIONAL DOOR (INSULATED)
- 215** BOLLARD (SEE CIVIL PLANS)
- 216** 3' x 8' INACTIVE WINDOW (5 EACH)
- 219** LOUVER (SEE MECH. PLANS)
- 225** 26 ga. WALL PANEL (COLOR BY OWNER)
- 226** 24 ga. ROOF PANEL (COLOR BY OWNER)
- 228** CONCRETE SLAB (SEE D/C-600)
- 231** CONCRETE DOUBLE GUTTER (SEE D/C-600)
- 235** CONCRETE APRON (SEE C/C-600)
- 236** CONCRETE LANDING (SEE DETAIL B/A-100)
- 238** EXHAUST (SEE MECH. PLANS)
- 239** INTAKE/VENT (SEE MECH. PLANS)
- 240** SAND-OIL INTERCEPTOR (SEE C-310)
- 243** ELECTRICAL SERVICE, 120/208V, 3-PHASE 200 Amp. SERVICE (SEE ELEC. PLANS)
- 245** NATAL GAS SERVICE, 800K BTU (SEE CIVIL & MECH. PLANS)
- 247** TRENCH DRAIN SERVICE LINE. (SEE C-310)
- 250** DOUBLE CLEAN-CUT (SEE C-310)



**A 101**  
**A FLOOR PLAN**  
PLAN VIEW - NTS



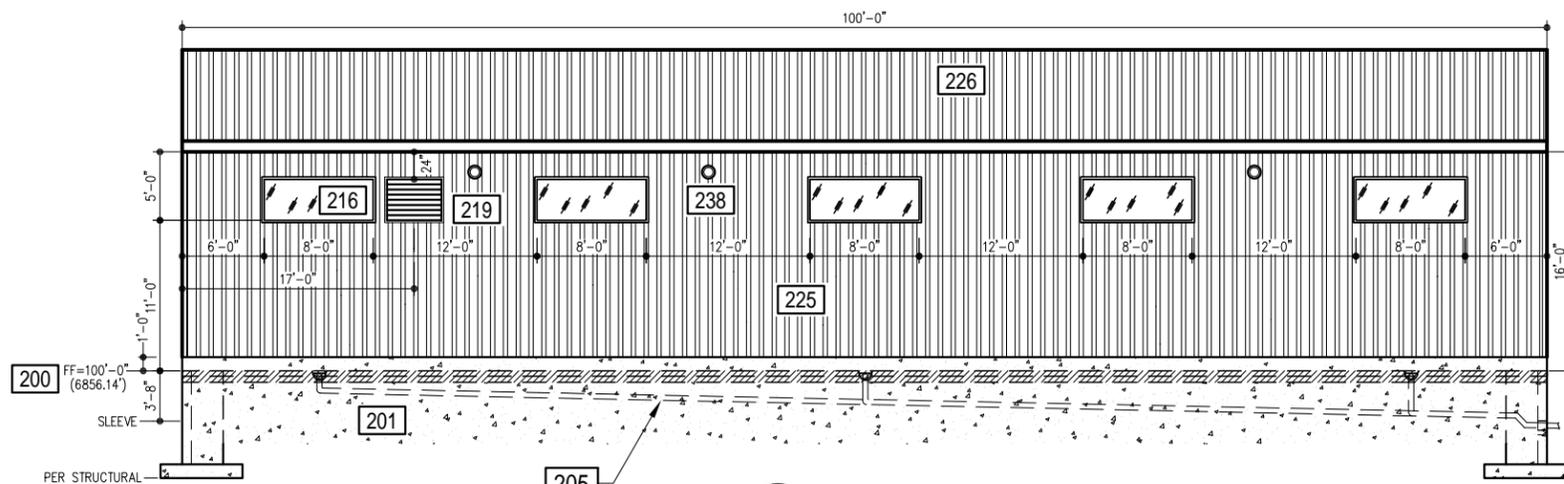
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<input type="checkbox"/> CONSTRUCTION	2	DESIGN DEVELOPMENT, GRADING AND STORM DRAINAGE	BLS	12/16/25	-
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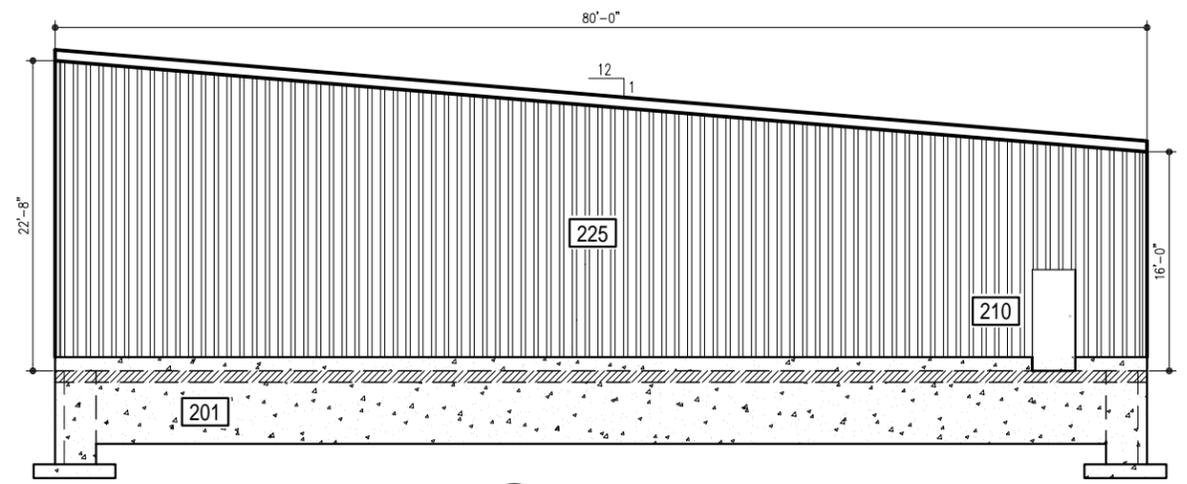
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No.	BY	DATE	APPD.	Project No.	Scale
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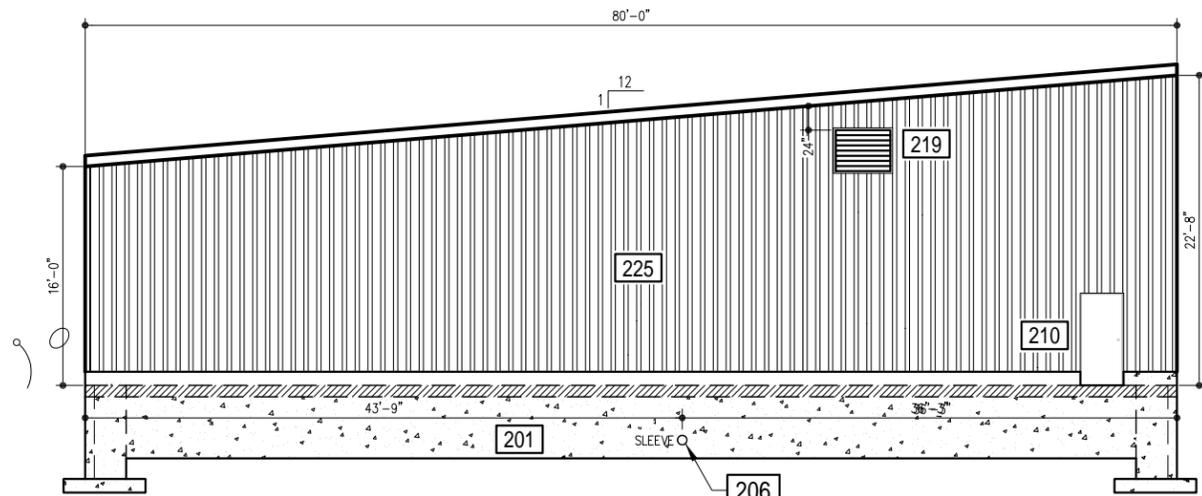
WYOMING STATE CONSTRUCTION DEPT. PRE-ENGINEERED METAL BUILDING PROPOSED FLOOR PLAN					
Drawn By:	Date:	Engr. BLS:	Date:	Appr. OWNERS:	Date:
BLS		BLS			
Chk'd. By:	Date:	Appr. OWNERS:	Date:		



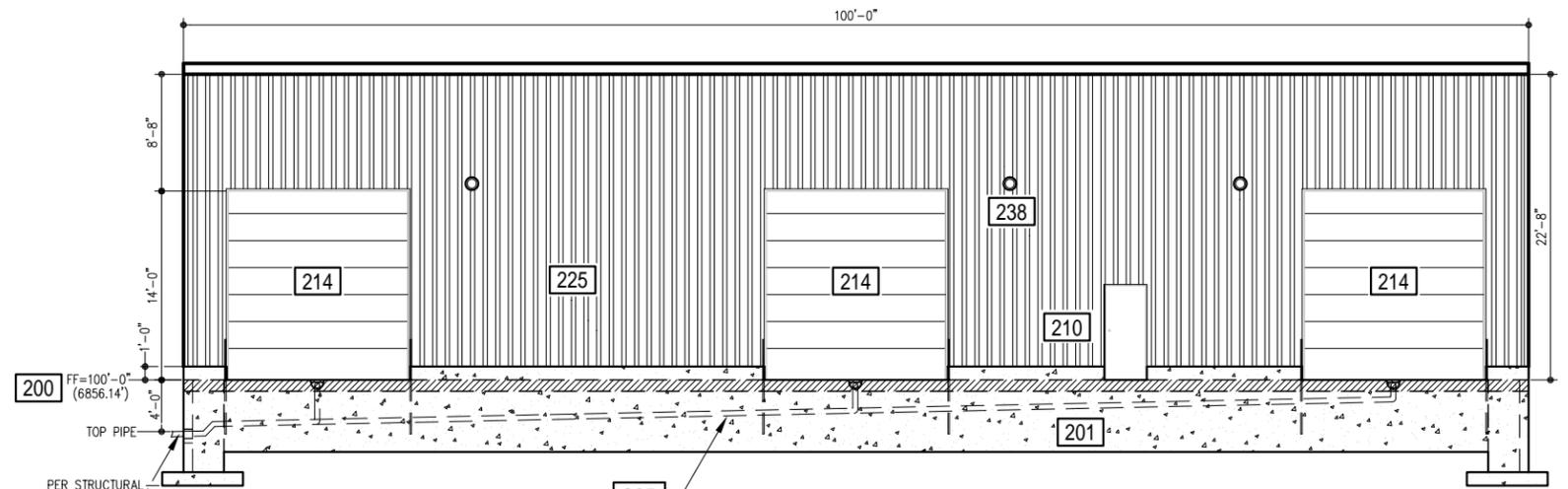
**C** BACK VIEW  
ELEVATION VIEW - NTS



**D** RIGHT VIEW  
ELEVATION VIEW - NTS



**B** LEFT VIEW  
ELEVATION VIEW - NTS



**A** FRONT VIEW  
ELEVATION VIEW - NTS

## KEYNOTES

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### PROPOSED

- |  |  |
|--|--|
| <b>200</b> REINFORCE CONCRETE SLAB (SEE STRUC. PLAN)       | <b>225</b> 26 ga. WALL PANEL (COLOR BY OWNER)    |
| <b>201</b> REINFORCE CONCRETE FOUNDATION (SEE STRUC. PLAN) | <b>226</b> 24 ga. ROOF PANEL (COLOR BY OWNER)    |
| <b>202</b> TRENCH DRAIN (SEE STRUC. & MECH. PLANS)         | <b>228</b> CONCRETE SLAB (SEE D/C-600)           |
| <b>205</b> DRAIN LINE (SEE MECH. PLANS)                    | <b>231</b> CONCRETE DOUBLE GUTTER (SEE D/C-600)  |
| <b>206</b> 8"Ø SLEEVE (SEE MECH. PLANS & C-310)            | <b>235</b> CONCRETE APRON (SEE C/C-600)          |
| <b>210</b> 3'-0" x 6'-8" MAN-DOOR                          | <b>236</b> CONCRETE LANDING (SEE DETAIL B/A-100) |
| <b>214</b> 14' x 14' SECTIONAL DOOR (INSULATED)            | <b>238</b> EXHAUST (SEE MECH. PLANS)             |
| <b>215</b> BOLLARD (SEE CIVIL PLANS)                       | <b>239</b> INTAKE/VENT (SEE MECH. PLANS)         |
| <b>216</b> 3' x 8' INACTIVE WINDOW (5 EACH)                |  |
| <b>219</b> LOUVER (SEE MECH. PLANS)                        |  |



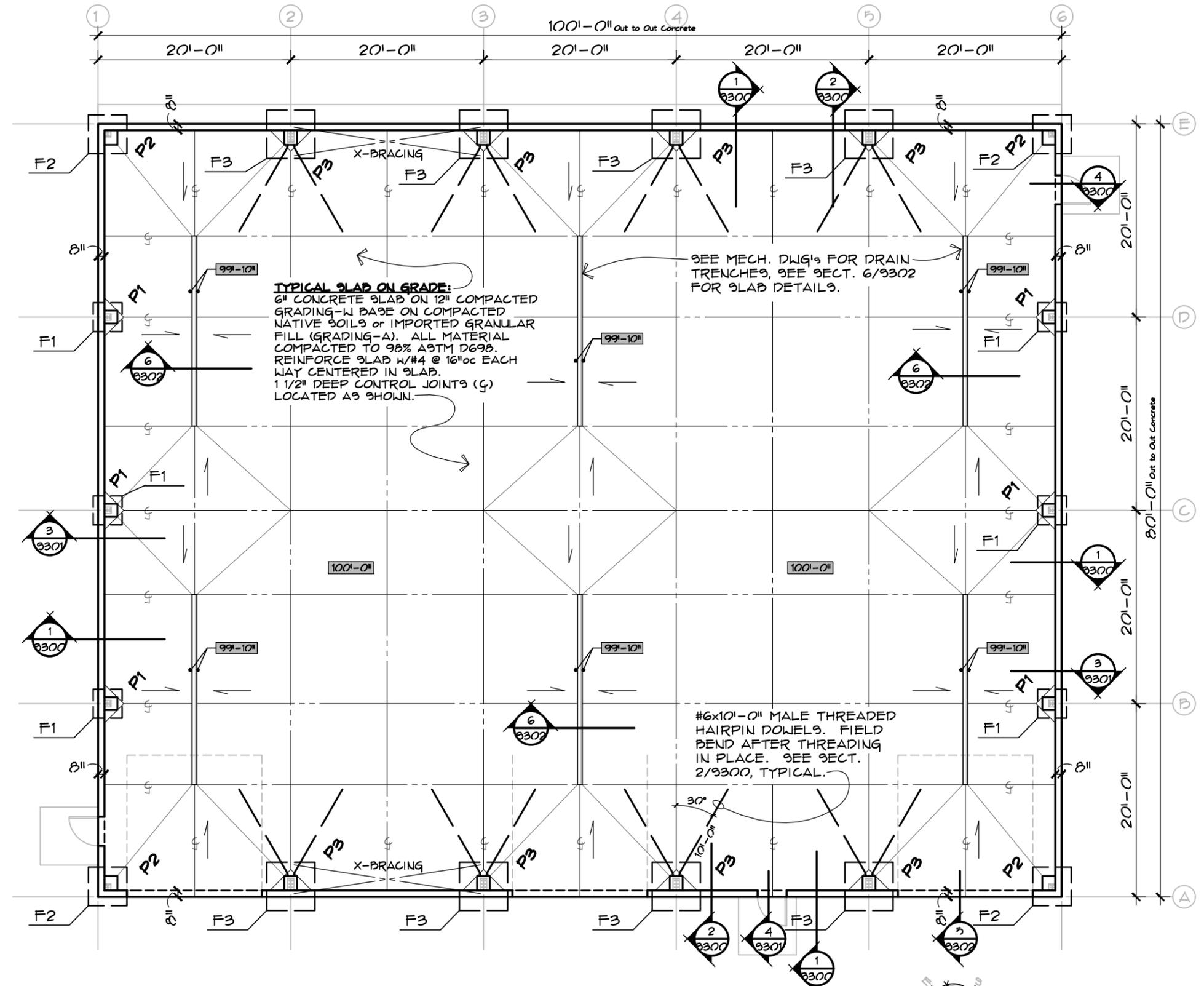
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0	PEMB FEATURES FOR OWNER APPROVAL	BLS	11/2025	-

TITLE			
<b>WYOMING STATE CONSTRUCTION DEPT.</b> <b>PRE-ENGINEERED METAL BUILDING</b> <b>PROPOSED EXTERIOR ELEVATIONS</b>			
Drawn By: BLS	Date: _	Engr. BLS	Date: _
Chk'd. By: _	Date: _	Appd. OWNERS	Date: _
Project No. 25-11-195	Scale AS NOTED	SHEET No. <b>A-200</b> REVISION <b>5</b>	

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**TYPICAL SLAB ON GRADE:**  
 6" CONCRETE SLAB ON 12" COMPACTED GRADING-W BASE ON COMPACTED NATIVE SOILS or IMPORTED GRANULAR FILL (GRADING-A). ALL MATERIAL COMPACTED TO 98% ASTM D698. REINFORCE SLAB W/#4 @ 16"oc EACH WAY CENTERED IN SLAB. 1 1/2" DEEP CONTROL JOINTS (C) LOCATED AS SHOWN.

SEE MECH. DWG'S FOR DRAIN TRENCHES, SEE SECT. 6/3302 FOR SLAB DETAILS.

#6x10'-0" MALE THREADED HAIRPIN DOWELS. FIELD BEND AFTER THREADING IN PLACE. SEE SECT. 2/3300, TYPICAL.

**FOOTING SCHEDULE**

TYPE	SIZE			REINFORCING	
	WIDTH	LENGTH	THICK	TRANS.	LONG.
F1	3'-0"	3'-0"	12"	(4) - #4	(4) - #4
F2	4'-0"	4'-0"	12"	(5) - #4	(5) - #4
F3	5'-0"	5'-0"	12"	(6) - #4	(6) - #4

- NOTES:**
- FINISH SLAB ELEVATION = 100'-0" UNLESS OTHERWISE NOTED THIS: 99'-10"
  - DENOTES FOOTING TYPE, SEE SCHEDULE
  - TOP OF FOOTING ELEV. = 95'-4" F2
  - TOP OF GRADE BEAM ELEV. = 101'-0"
  - TOP OF PILASTER ELEV. = 100'-0"
  - PILASTER TYPE DENOTED THIS: P2 SEE SHEET 3101

**FLOOR AND FOUNDATION PLAN**

N.T.S.



STRUCTURAL ENGINEERS  
 1607 C.Y. AVENUE, SUITE 201  
 CASPER, WYOMING 82604  
 307-234-6984



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No.	REVISIONS	BY	DATE	APPD.
2	CONSTRUCTION DOCUMENTS		1/2026	REL
1	DESIGN DEVELOPMENT		12/2025	REL

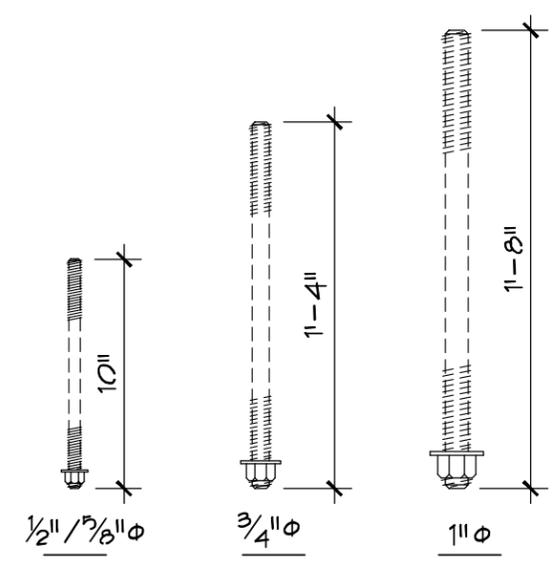
**WYOMING STATE CONSTRUCTION DEPT.**  
**PRE-ENGINEERED METAL BUILDING**  
**FLOOR & FOUNDATION PLAN**

Drawn By: gml Date 01/26 Engr. REL Date 01/26 SHEET No. REVISION  
 Chk'd. By: REL Date 01/26 Appd. OWNERS Date  
 Project No. 25-11-195 Scale AS NOTED

**S-100 2**

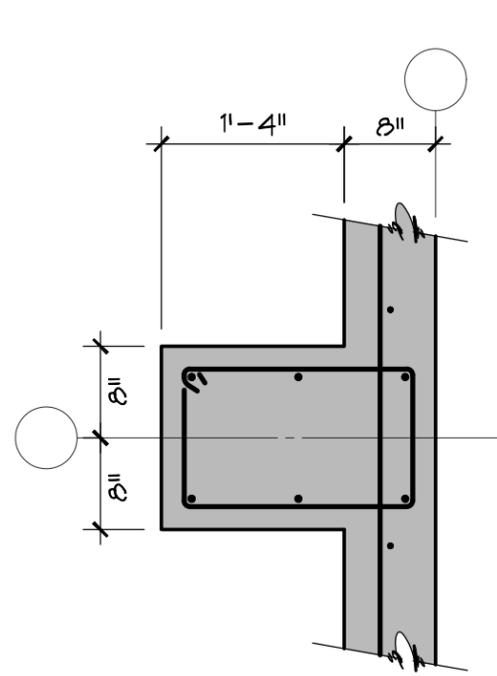
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CLASS "B" SPLICE LENGTHS		
Imperial Standard	Soft Metric Size	$f'_c = 4000$
#3	#10	16"
#4	#13	19"
#5	#16	23"
#6	#19	28"
#7	#22	33"

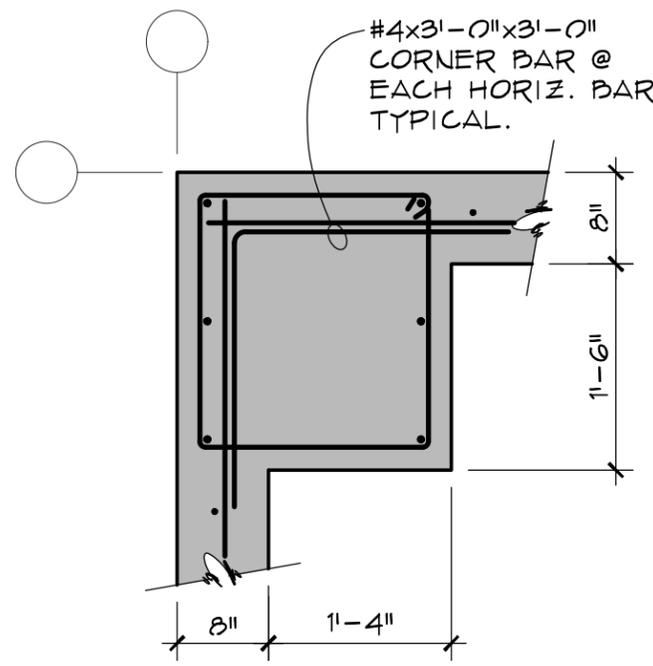


**ANCHOR BOLT DETAILS**

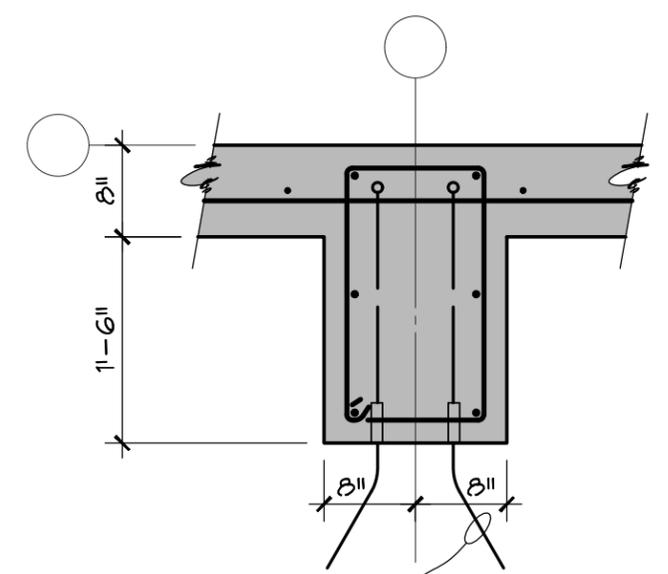
- STD NUT AT BOTTOM
  - PROJECT 3", TYPICAL.
  - ASTM A36 / F1554, Grade 36
- $1\frac{1}{2}" = 1'-0"$



**TYPE-P1**



**TYPE-P2**



**TYPE-P3**

**PILASTER DETAILS**

- TOP OF ALL PILASTER'S ELEV. 100'-0".  $3/4" = 1'-0"$
- RUN GRADE BEAM REINF. CONT. THRU PILASTER'S.
- PILASTER/PIER DIMENSIONS SHOWN MUST BE VERIFIED WITH THE REQUIREMENTS OF THE BUILDING MFGR'S DRAWINGS FOR SIZE & ANCHOR BOLT LAYOUT.
- SEE PLAN FOR PILASTER ORIENTATION.

**TYPICAL PILASTER REINFORCING:**  
 (6) - #7 VERTICAL W/ 12" HOOK IN FOOTING.  
 #3 CLOSED TIES @ 12"oc w/ (2) - TIES @ TOP.



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1	DESIGN DEVELOPMENT	SMW	12/2025	REL

REVISIONS

WYOMING STATE CONSTRUCTION DEPT. PRE-ENGINEERED METAL BUILDING PILASTER DETAILS			
Drawn By: SMW	Date: 01/26	Engr. REL	Date: 01/26
Chk'd. By: REL	Date: 01/26	Appd. OWNERS	Date:
Project No. 25-11-195	Scale AS NOTED	SHEET No.	REVISION
		<b>S-101</b>	<b>2</b>

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**GENERAL NOTES**

- I. DESIGN LOADS:
  - A. CODE ----- IBC 2024 EDITION
  - B. ROOFS ----- ROOF SNOW LOAD - 46 PSF IN AREAS WITHOUT DRIFTING, DRIFTING IS ADDED IN AREAS WHERE APPLICABLE.  
SNOW EXPOSURE  $C_e = 1.0$   
IMPORTANCE FACTOR  $I_s = 1.0$   
THERMAL FACTOR  $C_t = 1.0$
  - C. ROOF WIND UPLIFT (NET) ----- UL-90
  - D. WIND ----- BASIC WIND SPEED = 115 MPH  
EXPOSURE - C  
INTERNAL PRESSURE COEFFICIENT = 5PSF (ENCLOSED)  
COMPONENTS AND CLADDING SHALL BE DESIGNED FOR BASIC WIND SPEED  $V = 115$  MPH AND WIND PRESSURES PER TABLE 1609.6.2.
  - E. SEISMIC ----- DESIGN CATEGORY - D  
RISK CATEGORY - II  
SITE CLASS - D  
MAPPED SPECTRAL RESPONSE ACCELERATION  $S_s = 73\% G$   
 $S_1 = 44\% G$   
DESIGN SPECTRAL RESPONSE ACCELERATION  $S_d = 49\% G$   
 $S_1 = 29\% G$   
SEISMIC IMPORTANCE FACTOR  $I_e = 1.0$   
ANALYSIS PROCEDURE USED: EQUIVALENT LATERAL FORCE METHOD.  
SEISMIC FORCE RESISTING SYSTEM(S):  
ORDINARY CONCENTRICALLY BRACED STEEL FRAMES -  $R = 3.25$ .  
ORDINARY STEEL MOMENT FRAMES -  $R = 3.5$ .  
SEISMIC RESPONSE COEFFICIENT  $C_s = 0.1$   
DESIGN BASE SHEAR:  $V = 0.1W$  ( $W = 8,000$  SF X  $17$  PSF =  $136K$ )  
SYSTEM OVERSTRENGTH FACTOR (OMEGA) =  $2.0 / 2.5$ .
- II. REINFORCED CONCRETE:
  - A. DESIGN IS BASED ON "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACE 318). CONCRETE WORK SHALL CONFORM TO "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" (ACI 301).
  - B. ALL STRUCTURAL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS. MINIMUM CEMENT CONTENT 600lbs./CY. MAXIMUM W/C = 0.45. TYPE-F FLY ASH IS PERMITTED. COARSE AGGREGATE SHALL HAVE A MINIMUM OF 50% FRACTURED FACES ON A #4 PLUS ROCK.
  - C. ALL CONCRETE FOR FLOOR SLABS ON GRADE OR ON STEEL DECK SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3500 PSI AT 28 DAYS. MINIMUM CEMENT CONTENT 517lbs./CY. MAXIMUM W/C = 0.50. TYPE-F FLY ASH IS PERMITTED. COARSE AGGREGATE SHALL HAVE A MINIMUM OF 50% FRACTURED FACES ON A #4 PLUS ROCK.
  - D. ALL REINFORCING STEEL SHALL BE DEFORMED BARS OF NEW BILLET STEEL CONFORMING TO A.S.T.M. SPECIFICATION A-615, #4 AND LARGER GRADE 60, (ONLY #3 TIES MAY BE GRADE 40). DO NOT WELD OR REBEND ANY BARS WITH A YIELD POINT GREATER THAN 40,000 PSI.
  - E. SLABS ON GRADE SHALL BE REINFORCED AS NOTED ON THE PLAN. LAP BARS 20" AT SPLICES.
  - F. CONTROL AND CONSTRUCTION JOINTS SHALL BE LOCATED AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ARCHITECT.
  - G. AT ALL WALL CORNERS AND INTERSECTIONS PROVIDE CORNER BARS HAVING A CLASS "B" SPLICE WITH ADJACENT WALL BARS.
  - H. ALL BAR LENGTHS ARE DRAWN TO SCALE UNLESS NOTED. NO SPLICES OF REINFORCEMENT SHALL BE MADE EXCEPT AS DETAILED OR AUTHORIZED BY THE STRUCTURAL ENGINEER. ALL LAP SPLICES TO BE CLASS "B" UNLESS OTHERWISE NOTED.
  - I. DETAIL ALL REINFORCING AND PROVIDE BAR SUPPORTS IN ACCORDANCE WITH A.C.I. DETAILING MANUAL, LATEST EDITION.
  - J. PROVIDE LATERAL SUPPORT FOR WALLS WHILE EARTH BACKFILL IS BEING PLACED AND COMPACTED.
  - K. REINFORCEMENT PROTECTION:
    - 1. CONCRETE POURED AGAINST EARTH -----3"
    - 2. CONCRETE POURED IN FORMS BUT EXPOSED TO WEATHER OR EARTH -----2"
    - 3. WALLS, SLABS AND JOINTS -----1"
    - 4. BEAMS AND COLUMNS -----1 1/2"
  - L. UNLESS OTHERWISE SHOWN, PLACE 4-#5 WITH 2'-0" PROJECTION AROUND ALL OPENINGS IN CONCRETE WALLS, GRADE BEAMS OR SLABS.
  - M. NO HORIZONTAL JOINTS ARE PERMITTED IN SLABS, JOINTS, WALLS OR BEAMS. ANY STOP IN CONCRETE WORK MUST BE MADE AT THE CENTER OF THE SPAN (OR SUPPORT) WITH VERTICAL BULKHEADS AND HORIZONTAL KEYS, UNLESS OTHERWISE SHOWN OR APPROVED N. SEE ARCHITECTURAL DRAWINGS FOR CHAMFERS, KERFS, NOSINGS, ETC.
- III. SHOP DRAWINGS:
  - A. CONSTRUCTION DOCUMENTS ARE COPYRIGHTED AND SHALL NOT BE COPIED FOR USE AS ERECTION PLANS OR SHOP DETAILS.
  - B. ALL SHOP AND ERECTION DRAWINGS SHALL BE CHECKED AND STAMPED BY THE GENERAL CONTRACTOR PRIOR TO SUBMISSION FOR STRUCTURAL ENGINEER'S REVIEW. UNCHECKED SUBMITTALS WILL BE RETURNED WITHOUT REVIEW. FURNISH DIGITAL FILES (PDF) OF SHOP AND ERECTION DRAWINGS FOR REINFORCING STEEL, STRUCTURAL STEEL, STEEL JOISTS, STEEL DECK, PLANT FABRICATED WOOD JOISTS, WOOD TRUSSES GLUED-LAMINATED TIMBER AND PRECAST CONCRETE TO THE STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION.
  - C. SUBMIT IN A TIMELY MANNER TO PERMIT TEN (10) WORKING DAYS FOR REVIEW BY STRUCTURAL ENGINEER.
  - D. THE GENERAL CONTRACTOR AND HIS SUBCONTRACTORS SHALL SUBMIT IN WRITING ANY REQUESTS TO MODIFY THE PLANS OR SPECIFICATIONS. SHOP DRAWINGS, SUBMITTED FOR REVIEW DO NOT CONSTITUTE "IN WRITING" UNLESS SPECIFIC SUGGESTED CHANGES ARE CLEARLY MARKED. IN ANY EVENT, SUCH CHANGES BY MEANS OF THE SHOP DRAWING SUBMITTAL PROCESS BECOME THE RESPONSIBILITY OF THE ONE INITIATING SUCH CHANGE.
- IV. FIELD VERIFICATION OF EXISTING CONDITIONS:
  - A. CONTRACTOR SHALL THOROUGHLY INSPECT AND SURVEY EXISTING STRUCTURE TO VERIFY CONDITIONS WHICH AFFECT THE WORK SHOWN ON THE DRAWINGS. CONTRACTOR SHALL REPORT ANY VARIATIONS OR DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING.
- V. STRUCTURAL ERECTION AND BRACING REQUIREMENTS:
  - A. THE STRUCTURAL DRAWINGS ILLUSTRATE THE COMPLETED STRUCTURE WITH ELEMENTS IN THEIR FINAL POSITIONS, PROPERLY SUPPORTED AND BRACED. THESE CONSTRUCTION DOCUMENTS CONTAIN TYPICAL AND REPRESENTATIVE DETAILS TO ASSIST THE CONTRACTOR. DETAILS SHOWN APPLY AT ALL SIMILAR CONDITIONS UNLESS OTHERWISE INDICATED. ALTHOUGH DUE DILIGENCE HAS BEEN APPLIED TO MAKE THE DRAWINGS AS COMPLETE AS POSSIBLE, NOT EVERY DETAIL IS ILLUSTRATED, NOR IS EVERY EXCEPTIONAL CONDITION

ADDRESSED. ALL PROPRIETARY CONNECTIONS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. ALL WORK SHALL BE ACCOMPLISHED IN A WORKMANLIKE MANNER AND IN ACCORDANCE WITH THE 2024 IBC AND LOCAL CODES AND ORDINANCES.

- B. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF ALL WORK, INCLUDING LAYOUT AND DIMENSION VERIFICATION, MATERIALS COORDINATION, SHOP DRAWING REVIEW, AND THE WORK OF SUBCONTRACTORS. ANY DISCREPANCIES OR OMISSIONS DISCOVERED IN THE COURSE OF THE WORK SHALL BE IMMEDIATELY REPORTED TO THE ARCHITECT FOR RESOLUTION. CONTINUATION OF WORK WITHOUT NOTIFICATION OF DISCREPANCIES RELIEVES THE ARCHITECT AND STRUCTURAL ENGINEER FROM ALL CONSEQUENCES.
- C. UNLESS OTHERWISE SPECIFICALLY INDICATED, THE DRAWINGS DO NOT DESCRIBE METHODS OF CONSTRUCTION. THE CONTRACTOR, IN THE PROPER SEQUENCE, SHALL PROVIDE PROPER SHORING AND BRACING AS MAY BE REQUIRED DURING CONSTRUCTION TO ACHIEVE THE FINAL COMPLETED STRUCTURE. THE CONTRACTOR, IN THE PROPER SEQUENCE, SHALL PERFORM OR SUPERVISE ALL WORK NECESSARY TO ACHIEVE THE FINAL COMPLETED CONSTRUCTION. SUCH WORK SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING FOR CONSTRUCTION EQUIPMENT, SHORING FOR EXCAVATION, FORMWORK, SCAFFOLDING, SAFETY DEVICES AND PROGRAMS OF ALL KINDS, SUPPORT AND BRACING OR CRANES AND OTHER ERECTION EQUIPMENT. DO NOT PLACE BACKFILL AGAINST BASEMENT OR RETAINING WALLS UNTIL SUPPORTING SLABS AND FLOOR FRAMING ARE IN PLACE AND SECURELY ANCHORED, UNLESS ADEQUATE BRACING IS PROVIDED. THE STRUCTURAL STEEL FRAME IS "NON-SELF-SUPPORTING" PER AISC CODE OF STANDARD PRACTICE. TEMPORARY BRACINGS SHALL REMAIN IN PLACE UNTIL ALL FLOORS, WALLS, ROOFS AND ANY OTHER SUPPORTING ELEMENTS ARE IN PLACE. THE ARCHITECT AND STRUCTURAL ENGINEER BEAR NO RESPONSIBILITY FOR THE ABOVE ITEMS, AND OBSERVATION VISITS TO THE SITE DO NOT IN ANY WAY INCLUDE INSPECTION OF THEM.
- D. WHERE PERIODIC OR CONTINUOUS INSPECTION IS REQUIRED BY THESE DOCUMENTS BY CODE OR LOCAL ORDINANCE, THE OWNER SHALL EMPLOY AN INSPECTOR CERTIFIED IN THE PARTICULAR AREA OF CONCERN. THE INSPECTOR SHALL BE RESPONSIBLE TO, AND REPORT TO, THE ARCHITECT AND BUILDING DEPARTMENT.

- VI. FOUNDATIONS:
  - A. ALLOWABLE SOIL PRESSURE USED IN DESIGN: 2,500 PSF TOTAL LOAD PRESSURE
  - B. FOOTINGS SHALL BEAR ON COMPACTED STRUCTURAL FILL AT THE ELEVATIONS SHOWN.
  - C. THE OWNER OR HIS QUALIFIED REPRESENTATIVE SHALL APPROVE BOTTOM ELEVATIONS OF FOOTINGS.
  - D. ALL EXTERIOR GRADES ADJACENT TO THE BUILDING SHOULD BE SLOPED TO DRAIN AWAY FROM THE FOUNDATION IN ALL DIRECTIONS. ALL ROOF DOWNSPOUTS AND DRAINS SHOULD DISCHARGE WELL BEYOND THE LIMITS OF ALL BACKFILL AND NOT BE ALLOWED TO POND ADJACENT TO THE BUILDING.
  - E. A COPY OF THE GEOTECHNICAL REPORT IS AVAILABLE FOR REVIEW IN THE STRUCTURAL ENGINEER'S OR ARCHITECT'S OFFICE UPON REQUEST.



- VII. EXPLANATION OF SECTION DESIGNATION:
- VIII. METAL BUILDING:
  - A. THE FOUNDATIONS AS DETAILED ARE DESIGNED USING REACTIONS AND DETAILS BASED ON THE EXPERIENCE OF THE ENGINEER. THE BUILDING MANUFACTURER IS REQUIRED TO COMPLY WITH THE CONFIGURATION AND LAYOUT SHOWN ON THE CONSTRUCTION DOCUMENTS FOR ALL ASPECTS OF THE BUILDING INCLUDING FRAMING DEPTHS.
  - B. SEE MECHANICAL DRAWINGS FOR EQUIPMENT THAT IS SUPPORTED BY ANY METAL BUILDING COMPONENTS. METAL BUILDING SUPPLIER IS RESPONSIBLE FOR THE DESIGN OF SUPPORTING STRUCTURE AND ADDITIONAL LOADS DUE TO EQUIPMENT.

- IX. SPECIAL INSPECTION PROGRAM  
THE OWNER SHALL EMPLOY INSPECTORS AND SPECIAL INSPECTORS AS REQUIRED DURING CONSTRUCTION TO PROVIDE INSPECTIONS OF THE ITEMS OF WORK LISTED. THESE INSPECTORS SHALL BE QUALIFIED PERSON(S) WHO DEMONSTRATE COMPETENCE IN EACH PARTICULAR TYPE OF CONSTRUCTION TO THE SATISFACTION OF THE LOCAL BUILDING OFFICIAL AND THE RESPECTIVE GOVERNING CODE.

**ITEM OF CONSTRUCTION:**

REQUIRED VERIFICATION AND INSPECTION OF SOILS	INSPECTION FREQUENCY	REF. STANDARDS
1. INSPECTION OF REINFORCING STEEL, INCLUDING PLACEMENT.	PERIODIC	ACI 318: 3.5, 7.1 - 7.7; IBC: 1913.4
2. INSPECTION OF ANCHORS CAST IN CONCRETE.	PERIODIC	ACI 318: 8.1.3, 21.2.8; IBC: 1908.5, 1909.1
3. INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS.	PERIODIC	ACI 318: 3.8.6, 8.1.3, 21.2.8; IBC: 1909.1
4. VERIFYING USE OF REQUIRED MIX DESIGN.	PERIODIC	ACI 318: Ch. 4, 5.2-5.4; IBC: 1904.2, 1910.2, 1910.3
5. AT THE TIME FRESH CONCRETE IS SAMPLED		

REQUIRED VERIFICATION AND INSPECTION	INSPECTION FREQUENCY	REF. STANDARDS
TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	CONTINUOUS	ASTM C172, C31 ACI 318: 5.6, 5.8 IBC: 1910.10
6. INSPECTION OF CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	CONTINUOUS	ACI 318: 5.9, 5.10 IBC: 1913.6, 1913.7, 1913.8
7. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	PERIODIC	ACI 318: 5.11 - 5.13 IBC: 1910.9
8. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSION OF THE CONCRETE MEMBER BEING FORMED.	PERIODIC	ACI 318: 6.1.1

REQUIRED VERIFICATION AND INSPECTION	INSPECTION FREQUENCY	REF. STANDARDS
C. STRUCTURAL STEEL, 2024 IBC SECTION 1705.2. SPECIAL INSPECTION SHALL BE IN ACCORDANCE WITH THE QUALITY ASSURANCE INSPECTION REQUIREMENTS OF AISC 360. ITEMS IDENTIFIED BELOW REPRESENT A PARTIAL/SUMMARIZED LIST OF THE INSPECTION REQUIREMENTS AND ARE NOT MEANT TO SUPERSEDE THE REQUIREMENTS OF AISC 360 AND ITS ASSOCIATED REFERENCES. REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION		
1. MATERIAL VERIFICATION OF STRUCTURAL STEEL:		
a. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	PERIODIC	AISC 360: N3.2, N5.2
b. MANUFACTURERS CERTIFIED MILL TEST REPORTS.		AISC 360: A3.1, N3.2
2. INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS:	PERIODIC	AISC 360: N5.7
a. DETAILS SUCH AS BRACING AND STIFFENING.		
b. MEMBER LOCATIONS		
c. APPLICATION OF JOINT DETAILS AT EACH CONNECTION.		
d. HEADED ANCHOR STUD APPLICATION		
3. MATERIAL VERIFICATION OF HIGH STRENGTH BOLTS, NUTS AND WASHERS:		
a. MANUFACTURERS CERTIFICATE OF COMPLIANCE REQUIRED.		ASIC 360: N5.6
b. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS:	PERIODIC	AISC 360: N5.6 ASTM STANDARDS
c. CORRECT FASTENER SELECTION (LENGTH, TYPE, GRADE, THREAD EXCLUSION) FOR JOINT DETAILS:	PERIODIC	AISC 360: N5.6
4. INSPECTION OF HIGH STRENGTH BOLTING FOR STRUCTURAL STEEL:		
a. PROPER BOLTING PROCEDURES UTILIZED ACCORDING TO AISC RCSC SPECIFICATION.	PERIODIC	ASIC 360: N5.6 RCSC SECTION 9
b. FASTENERS PLACED IN ALL HOLES IN PROPER POSITION AND ALIGNMENT WITH TENSION MECHANISM COMPLETED:	PERIODIC	AISC 360: N5.6
5. VERIFICATION OF WELD MATERIALS AND PROCEDURES:		
a. WELDING PROCEDURE SPECIFICATIONS AVAILABLE.		AISC 360: N5.4 AWS D1.1
b. MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE.		AISC 360: N5.4 AWS D1.1
c. MATERIAL IDENTIFICATION:	PERIODIC	AISC 360: N5.4 AWS D1.1
6. INSPECTION OF WELDING FOR STRUCTURAL STEEL:		
a. FIT-UP OF MEMBERS TO BE WELDED INCLUDING JOINT GEOMETRY, ALIGNMENT, PREPARATION, TACKING, BACKING, AND FINISH.	PERIODIC	AISC 360: N5.4 AWS D1.1
b. PROPER WELDING PROCEDURES AND TECHNIQUES FOLLOWED.	PERIODIC	AISC 360: N5.4 AWS D1.1
c. SIZE, LENGTH AND LOCATION OF WELDS IN ACCORDANCE WITH CONTRACT DOCUMENTS.	COMPLETE	AISC 360: N5.4 AWS D1.1
d. VISUAL ACCEPTANCE CRITERIA MET FOR ALL WELDED JOINTS.	COMPLETE	AISC 360: N5.4 AWS D1.1
e. INSPECTION CRITERIA FOR WELDED JOINTS BASED ON WELD SIZE/TYPE:		
1. CJP & PJP GROOVE WELDS.	CONTINUOUS	
2. MULTIPASS FILLET WELDS.	CONTINUOUS	
3. SINGLE PASS FILLET WELDS > 5/6".	PERIODIC	
4. SINGLE PASS FILLET WELDS = < 5/16".	PERIODIC	
5. HEADED ANCHOR STUDS.	PERIODIC	



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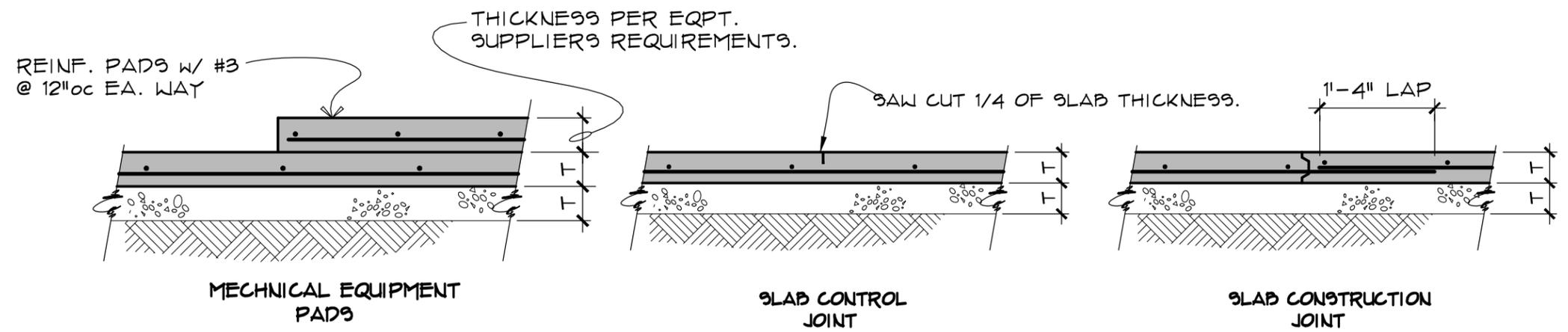
**WYOMING STATE CONSTRUCTION DEPT.**  
**PRE-ENGINEERED METAL BUILDING**  
**GENERAL STRUCTURAL NOTES**

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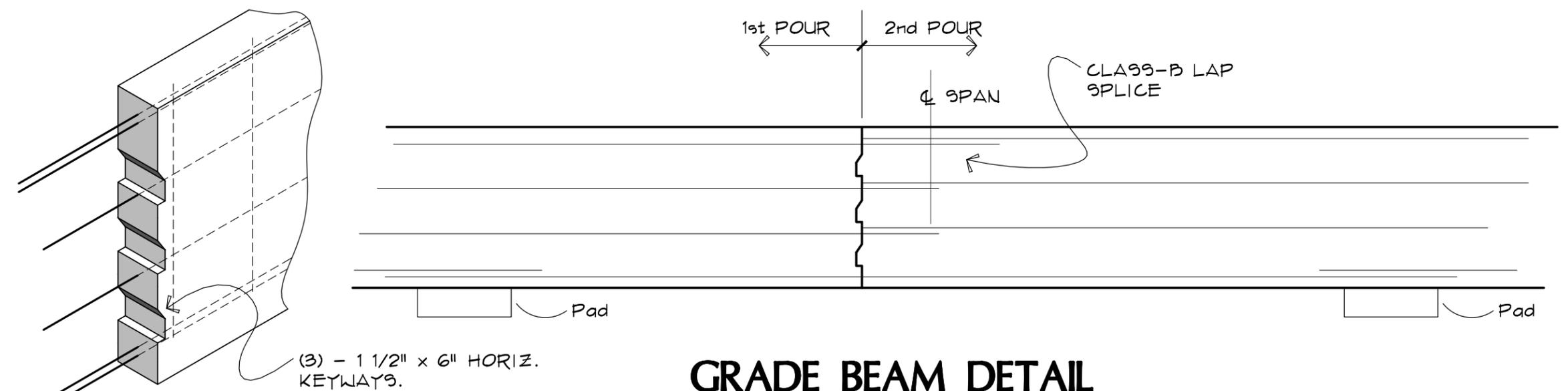
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## SLAB ON GRADE DETAILS

NOT TO SCALE



## GRADE BEAM DETAIL at BULKHEAD CONSTRUCTION JOINT

NOT TO SCALE

**NOTES:**  
 -EXTEND ALL HORIZ. REINF. THRU BULKHEAD AND SPLICE PER SECT. 1/9300



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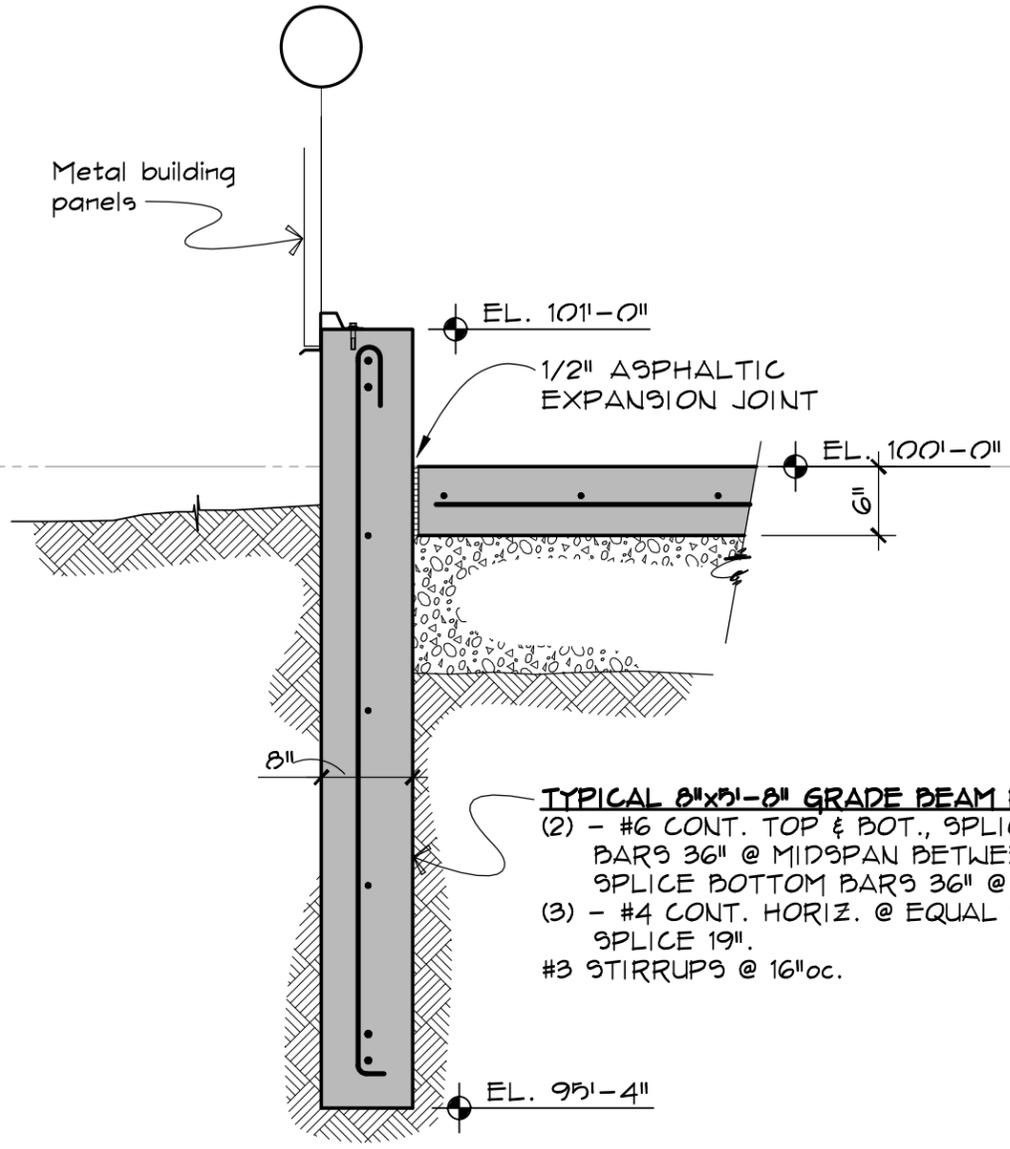


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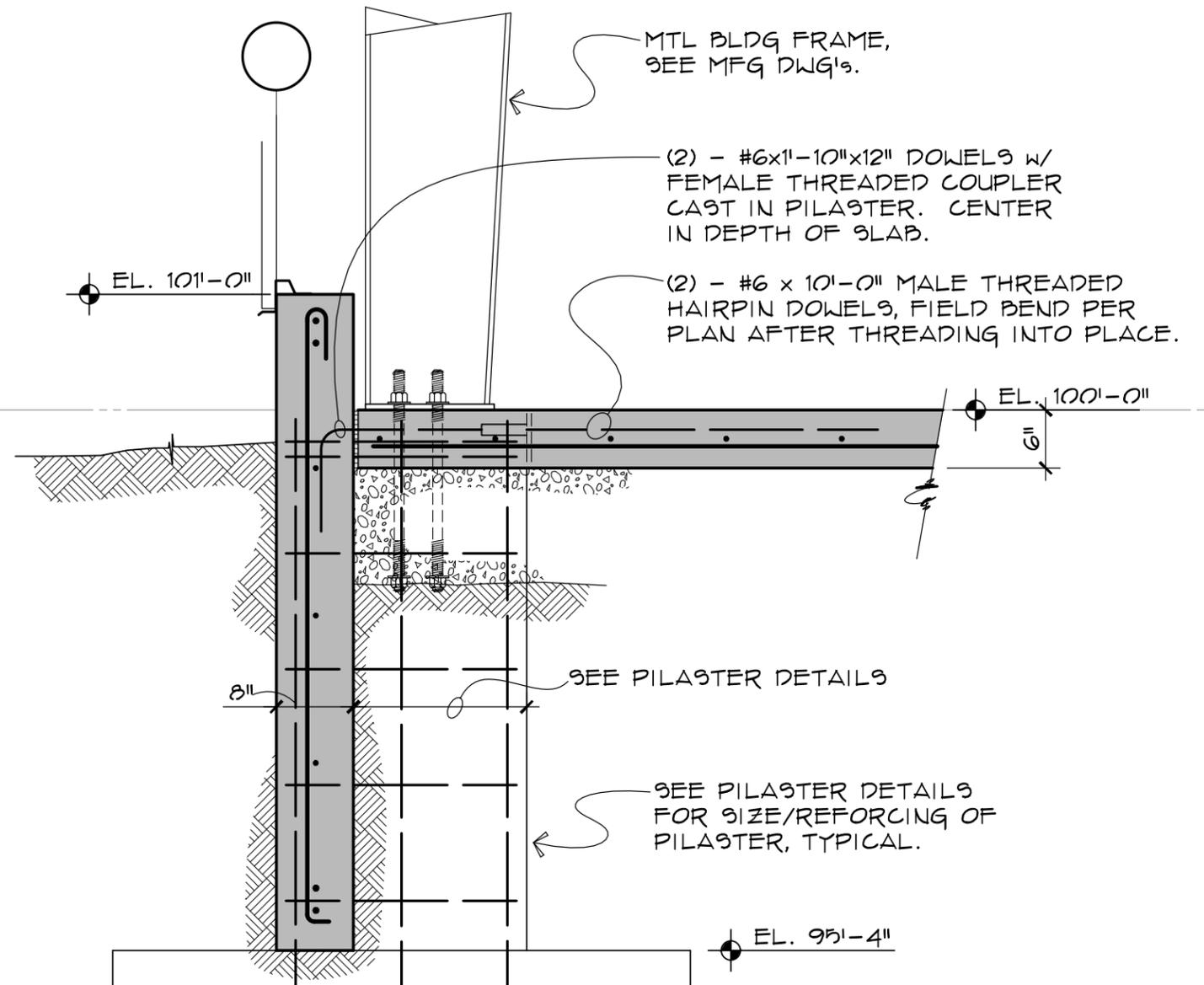
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Drawn By: SMW	Date: 01/26	Engr. REL	Date: 01/26	SHEET No.	REVISION
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**TYPICAL 8"x8"-8" GRADE BEAM REINF:**  
 (2) - #6 CONT. TOP & BOT., SPLICE TOP BARS 36" @ MIDSPAN BETWEEN PADS, SPLICE BOTTOM BARS 36" @ PADS.  
 (3) - #4 CONT. HORIZ. @ EQUAL SPACE, SPLICE 19".  
 #3 STIRRUPS @ 16"oc.

**SECTION 1**  
 3/4" = 1'-0"



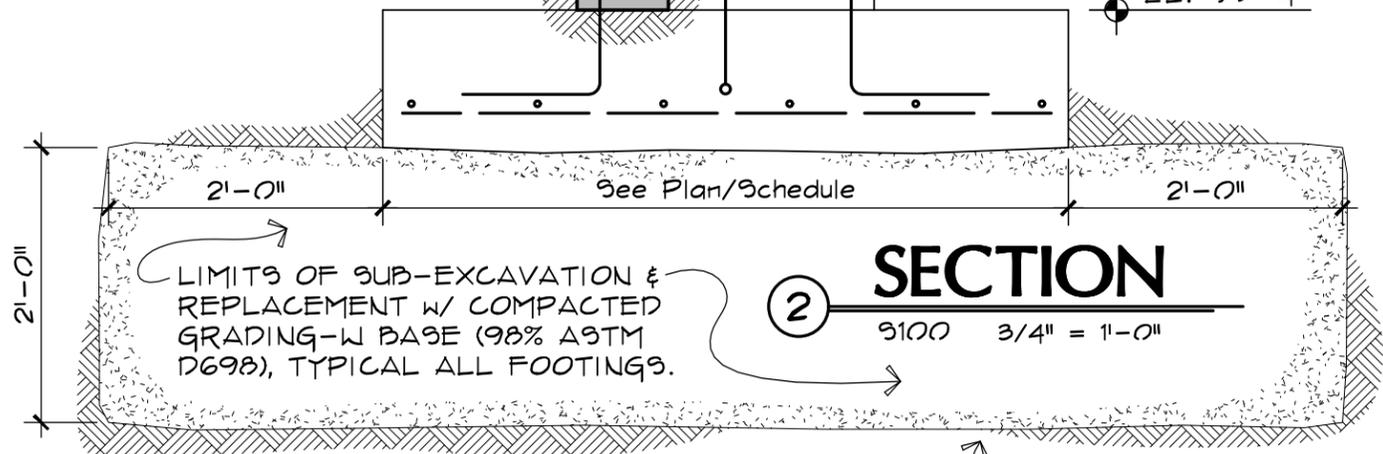
MTL BLDG FRAME, SEE MFG DWG'S.

(2) - #6x11-10"x12" DOWELS W/ FEMALE THREADED COUPLER CAST IN PILASTER. CENTER IN DEPTH OF SLAB.

(2) - #6 x 10'-0" MALE THREADED HAIRPIN DOWELS, FIELD BEND PER PLAN AFTER THREADED INTO PLACE.

SEE PILASTER DETAILS

SEE PILASTER DETAILS FOR SIZE/REINFORCING OF PILASTER, TYPICAL.



LIMITS OF SUB-EXCAVATION & REPLACEMENT W/ COMPACTED GRADING-W BASE (98% ASTM D698), TYPICAL ALL FOOTINGS.

**SECTION 2**  
 3/4" = 1'-0"

COMPACTED NATIVE SOILS



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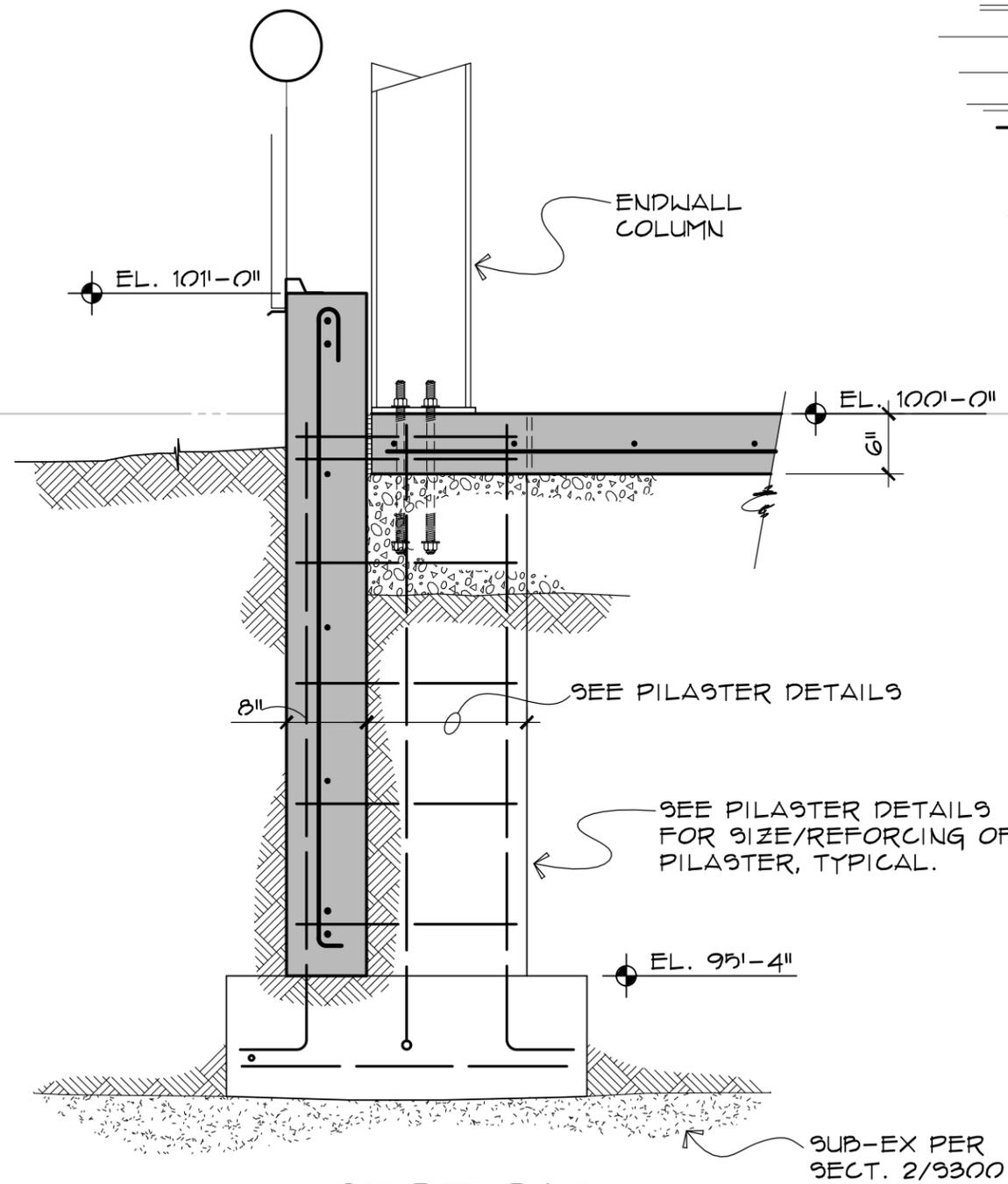
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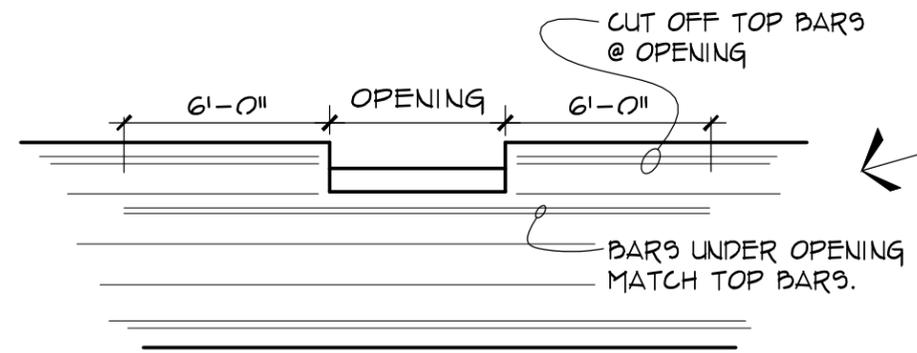
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Project No.:	25-11-195	Scale:	AS NOTED						

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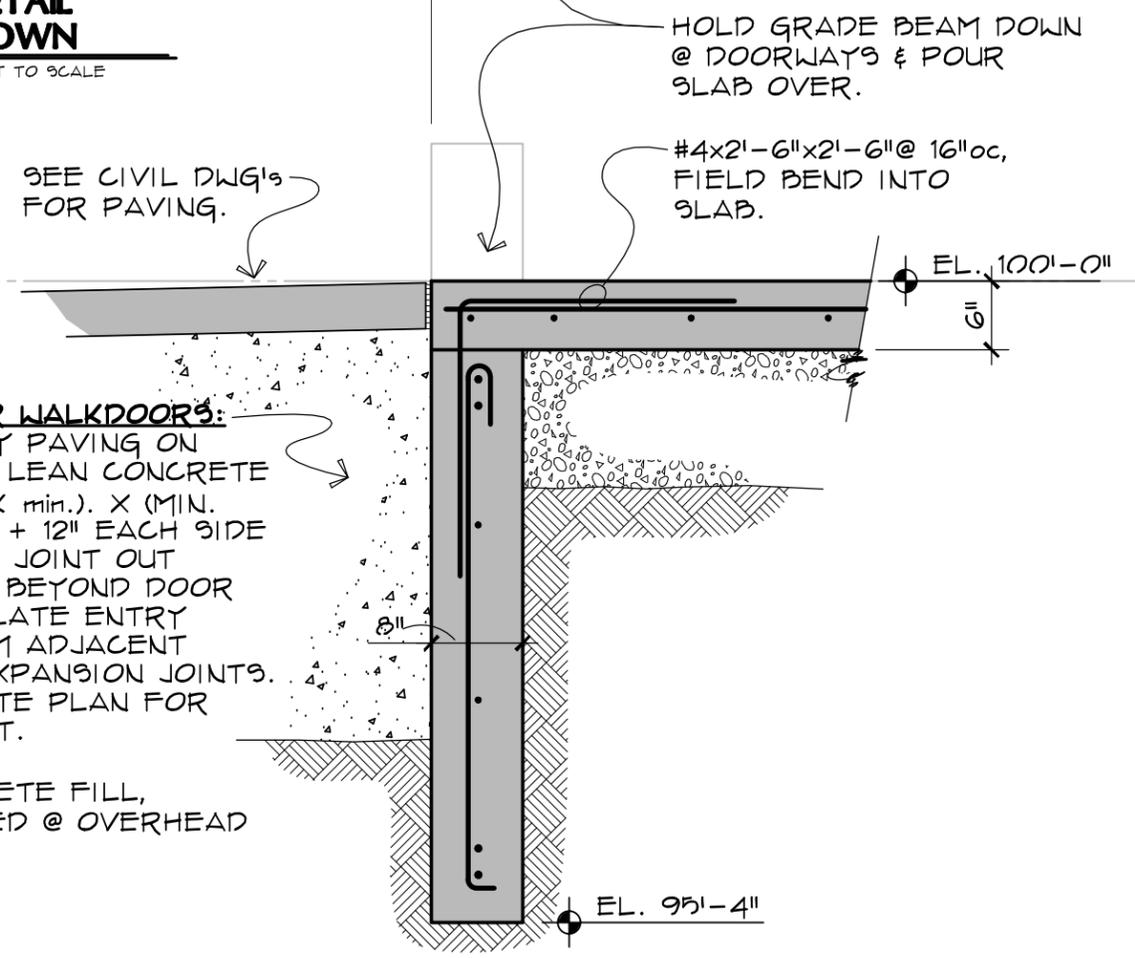
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**3 SECTION**  
 9100 3/4" = 1'-0"



**GRADE BEAM DETAIL @ TOP BLOCKDOWN**  
 NOT TO SCALE



**4 SECTION**  
 9100 3/4" = 1'-0"



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 1607 C.Y. AVENUE, SUITE 201  
 CASPER, WYOMING 82604  
 307-234-6984



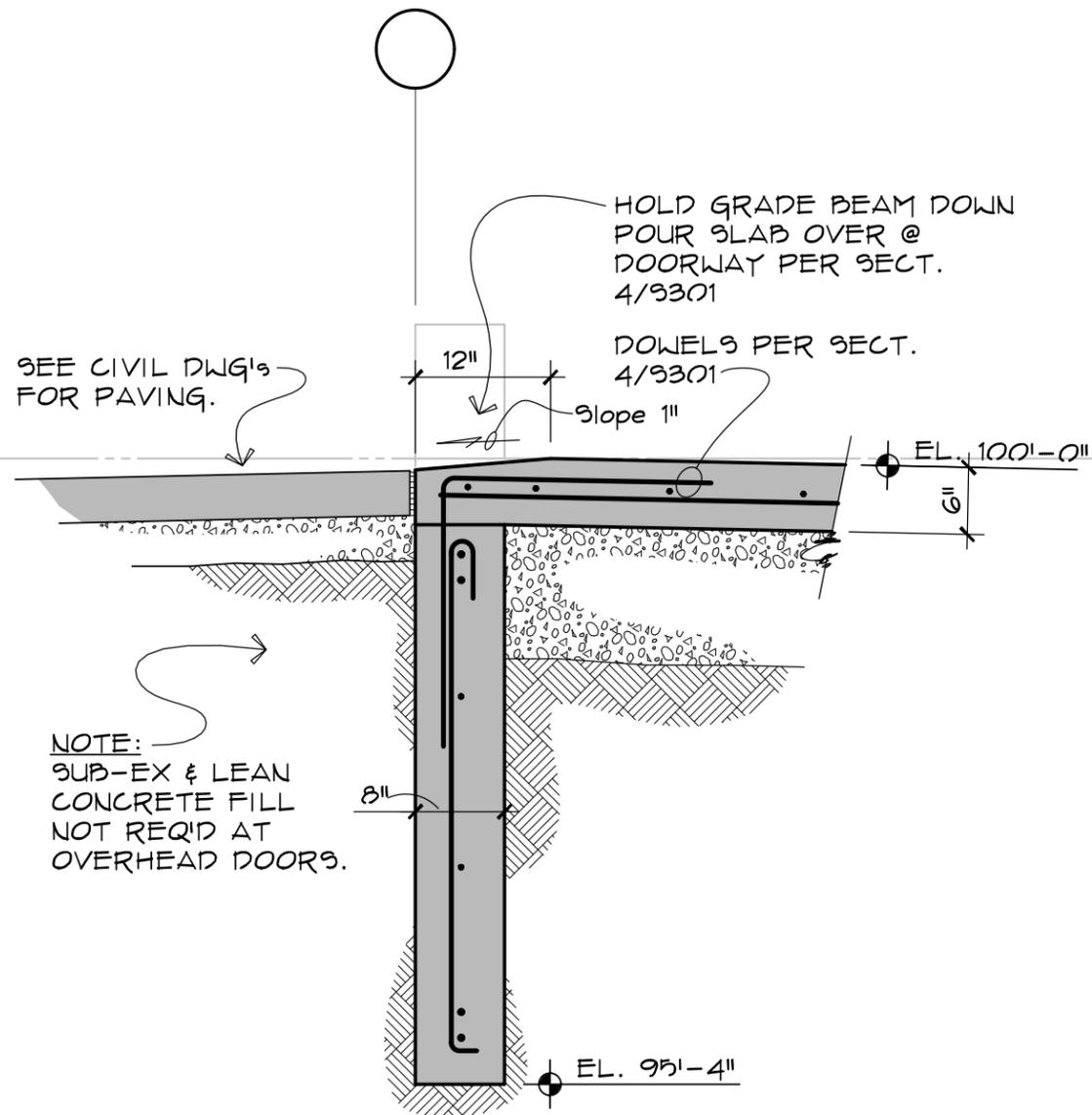
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 CONSTRUCTION  
 APPROVAL  
 AS BUILT  
 REVISION

No.	REVISIONS	BY	DATE	APPD.
2	CONSTRUCTION DOCUMENTS	SMW	1/2026	REL
1	DESIGN DEVELOPMENT	SMW	12/2025	REL

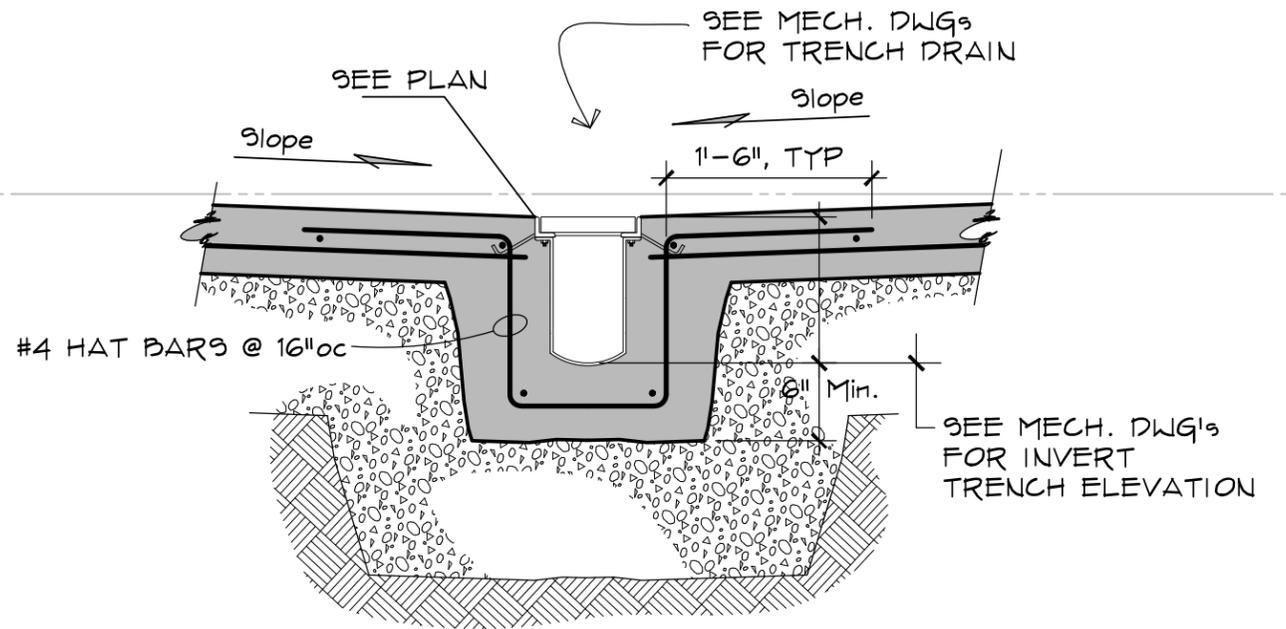
TITLE				WYOMING STATE CONSTRUCTION DEPT. PRE-ENGINEERED METAL BUILDING FLOOR & FOUNDATION SECTIONS				
Drawn By:	REL	Date:	01/26	Engr. REL	Date:	01/26	SHEET No.	REVISION
Chk'd. By:	REL	Date:	01/26	Appd. OWNERS	Date:			
Project No.:	25-11-195	Scale:	AS NOTED					

**S-301 2**

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**5 SECTION**  
 9100 3/4" = 1'-0"



**6 SECTION**  
 9100 3/4" = 1'-0"



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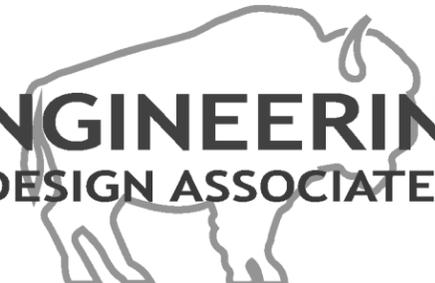
No.	REVISIONS	BY	DATE	APPD.
2	CONSTRUCTION DOCUMENTS	9M	1/2026	REL
1	DESIGN DEVELOPMENT	9M	12/2025	REL

TITLE				WYOMING STATE CONSTRUCTION DEPT. PRE-ENGINEERED METAL BUILDING FLOOR & FOUNDATION SECTIONS				
Drawn By:	REL	Date:	01/26	Engr. REL	Date:	01/26	SHEET No.	REVISION
Chk'd. By:	REL	Date:	01/26	Appd. OWNERS	Date:		<b>S-302</b>	<b>2</b>
Project No.:	25-11-195	Scale:	AS NOTED					

## GENERAL MECHANICAL NOTES

1. CONTRACTORS SHALL COMPLY WITH ALL STATE AND LOCAL CODES, REGULATIONS AND ORDINANCES.
2. MATERIALS SHALL CONFORM TO STANDARDS PRESCRIBED IN LOCALLY ADOPTED CODES AND BE APPROVED FOR USE BY THE AUTHORITY HAVING JURISDICTION.
3. EQUIPMENT SHALL BE LISTED, LABELED, AND INSTALLED IN ACCORDANCE WITH THE MFGR'S INSTALLATION INSTRUCTIONS.
4. SECURE AND PAY FOR ALL PERMITS, FEES, TAXES, INSPECTIONS, AND UTILITY COSTS. CONNECTIONS TO UTILITIES SHALL BE IN ACCORDANCE WITH THE LOCAL UTILITY.
5. CONTRACTORS ARE TO EXAMINE THE SITE AND DOCUMENTS OF OTHER TRADES AND BECOME FAMILIAR WITH THE FULL SCOPE OF WORK PRIOR TO FABRICATING MATERIALS.
6. DRAWINGS ARE DIAGRAMMATIC REPRESENTING GENERAL ARRANGEMENT OF THE WORK. ALL DIMENSIONS SHALL BE VERIFIED ON THE JOB SITE.
7. SCHEMATIC DIAGRAMS DENOTE EQUIPMENT RELATIONSHIPS ONLY. SEE FLOOR PLANS FOR MAJOR EQUIPMENT LOCATIONS.
8. CONTRACTORS SHALL BE RESPONSIBLE FOR EXACT FITTING COUNTS, LENGTH OF MATERIAL, OFFSETS REQUIRED, CLEARANCES, AND AN ORGANIZED FIELD INSTALLATION.
9. DUCT SIZES SHOWN AND NOTED ON THE DRAWINGS INDICATE CLEAR INSIDE DIMENSIONS UNLESS NOTED OTHERWISE.

## ENGINEERING DESIGN ASSOCIATES



1607 CY AVE, STE 303 // CASPER, WY 82604 // (307) 266-5033 // MAIL@EDAENGINEERING.COM

## DESIGN CONDITIONS

6,800 FT ELEVATION

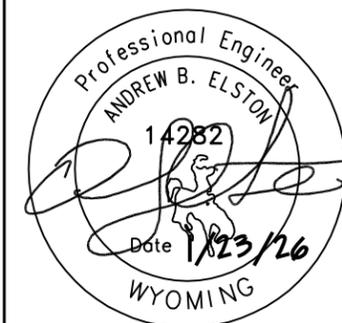
EVANSTON, WY	INSIDE	OUTSIDE
SUMMER	75° F	90° F
WINTER	70° F	-13° F

## BLDG GAS LOAD

525,000 BTUH @ 7" W.C.

## PLUMBING / HVAC LEGEND

SYMBOL	IDENTIFICATION	SYMBOL	IDENTIFICATION	SYMBOL	IDENTIFICATION
	SANITARY BLDG WASTE		FIRE PROTECTION		NATURAL GAS LINE
	PIPE ELBOW DOWN		CONDENSATE DRAIN		VENT THRU ROOF (VTR)
	PIPE ELBOW UP		PIPE TEE DOWN		SANITARY SEWER VENT
	SHUT-OFF VALVE		PIPE TEE UP		GAS COCK/SHUT-OFF
	CHECK VALVE		ROOM THERMOSTAT		DRAIN VALVE
	PIPE OR DUCT REDUCER		MOTOR OPERATED DAMPER		PIPING UNION
	DUCT ELBOW UP		DUCT ELBOW DOWN		TURNING VANES
	ACOUSTICALLY LINED DUCT		FLEXIBLE CONNECTION		INSULATED DUCT



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2	100% DESIGN DEVELOPMENT	BLS	1/2026	NM
1	50% DESIGN DEVELOPMENT	BLS	12/2025	NM
0	PEMB FEATURES FOR OWNER APPROVAL	BLS	11/2025	NM

TITLE: WYOMING STATE CONSTRUCTION DEPT.  
 PRE-ENGINEERED METAL BUILDING  
 MECHANICAL SCHEDULES  
 Drawn By: GMH Date 1-26 Engr: AE Date \_  
 Chk'd By: AE Date \_ App'd: OWNERS Date \_  
 Project No: 25105 Scale AS NOTED

SHEET No. **M-000** REVISION **1**

PLUMBING ACCESSORIES							
MARK	FIXTURE	MFR MODEL AND DESCRIPTION	CONNECTIONS				MOUNTING HEIGHT
			CW	HW	DRAIN	VENT	
TD	TRENCH DRAIN	JAY R SMITH SERIES 9960, PRE-SLOPED 12-IN WIDE POLYPROPYLENE CHANNELS WITH STAINLESS STEEL FRAMES, END CAPS, HORIZONTAL OUTLET, AND LOAD CLASS E ADA DUCTILE IRON SLOTTED GRATE. PRECISE LOCATIONS AND LENGTH AS PER ARCHITECT.	-	-	4"	2"	FLOOR
FCO	FLOOR CLEAN-OUT	JAY R SMITH 4020 SERIES, ROUND ADJUSTABLE NICKEL BRONZE TOP.	-	-	LINE	-	FLOOR
GCO	EXTERIOR CLEAN-OUT	SEE CIVIL DRAWINGS	-	-	LINE	-	GRADE

1) ACCESSORIES OF SIMILAR SIZE, MATERIAL, CONSTRUCTION, AND PURPOSE AS MANUFACTURED BY SMITH, JOSAM, WADE, WATTS, ZURN, WOODFORD, AND OTHERS ARE ACCEPTABLE

EXHAUST FANS													
MARK	MODEL NO.	AREAS SERVED	BLOWER			DESCRIPTION		MOTOR		DAMPER	CONTROL	WT LBS	REMARKS
			ACFM	ESP	RPM	DRIVE	TYPE	HP	VOLTS				
EF-1	COOK 270SQN17D	STORAGE BUILDING	5850	.25"	537	DIRECT	INLINE	3	208 3PH	BACK DRAFT	GAS DETECTOR	550	SEE (1-8) BELOW

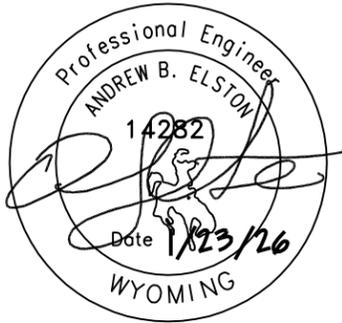
1) VIBRATION ISOLATION KIT 2) PREWIRED FAN SPEED CONTROLLER 3) PREWIRED DISCONNECT 4) INSULATED CABINET 5) MOTORIZED MFR LOW LEAK DAMPER 120 V (CONNECTED BY EC) 6) MOTOR CONTROL COVER 7) FLEXIBLE DUCT CONNECTION TO THE LOUVER DUCTWORK 8) DUCT COLLARS BOTH ENDS

WALL LOUVERS											
MARK	MODEL NO.	SERVICE	CFM	THROAT SIZE	FREE AREA	VELOCITY FPM	SPD IN WC	TYPE	FRAME	MOUNTING HEIGHT	REMARKS
WL-1	RUSKIN ELF6375DX	INTAKE	5,850	48/36	6.6 SF	890	.10"	STATIONARY DRAINABLE	CHANNEL	SEE ARCH	SEE (1-7) BELOW
WL-2	RUSKIN ELF6375DX	EXHAUST	5,850	48/36	6.6 SF	890	.10"	STATIONARY DRAINABLE	CHANNEL	SEE ARCH	SEE (1-3) BELOW

1) WITH EXTENDED SILL 2) BAKED ENAMEL FINISH (COLOR BY ARCHITECT) 3) SEE ARCHITECTURAL FOR EXACT MOUNTING HEIGHTS 4) EXTEND LINED TRANSFER DUCT TO WITHIN 12" OF FLOOR 5) INTERLOCK TO EF-1 FOR OPERATION 6) PROVIDE DAMPER WITH ULTRA LOW-LEAK INSULATED BLADES 7) INCLUDE TWO-POSITION 120V ACTUATORS FOR CONTROL

GAS INFRARED HEATERS													
MARK	MODEL NO.	INPUT BTUH	HEAT EXCHANGER TUBE				OSA INTAKE	FLUE VENT		ELECTRICAL		MOUNTING HEIGHT	REMARKS
			DIA	LENGTH	MATERIAL	REFLECTOR		DIA	DISCHARGE	AMPS	VOLTS		
IH-1	DETROIT RADIANT RE-VERBER-RAY HL-60-175	175,000	4"	60'-5"	ALUMINIZED COATED STEEL	STANDARD ALUMINUM	4"	4"	SIDE WALL	4.8	120 1PH	± 16 FT AFF	SEE (1-5) BELOW

1) HIGH ALTITUDE BURNER 2) INCLUDE FLEX BOOTS AND MFR'S WEATHER CAP FOR SIDE WALL APPLICATION 3) INCLUDE ALL HANGERS AND CONNECTORS 4) INCLUDE LINE VOLTAGE STAT INSTALL FLUE VENT(S) WITH EXPANSION BOOT(S) AND COMBUSTION AIR INTAKE OUT THRU THE SIDE WALL PER MFR'S INSTRUCTIONS. TERMINATE WITH DOUBLE-WALL VENT AND MFR'S WEATHER CAP. 5) TWO STAGE GAS VALVE



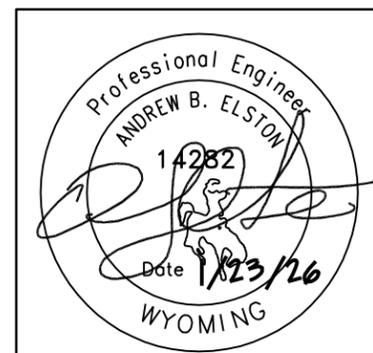
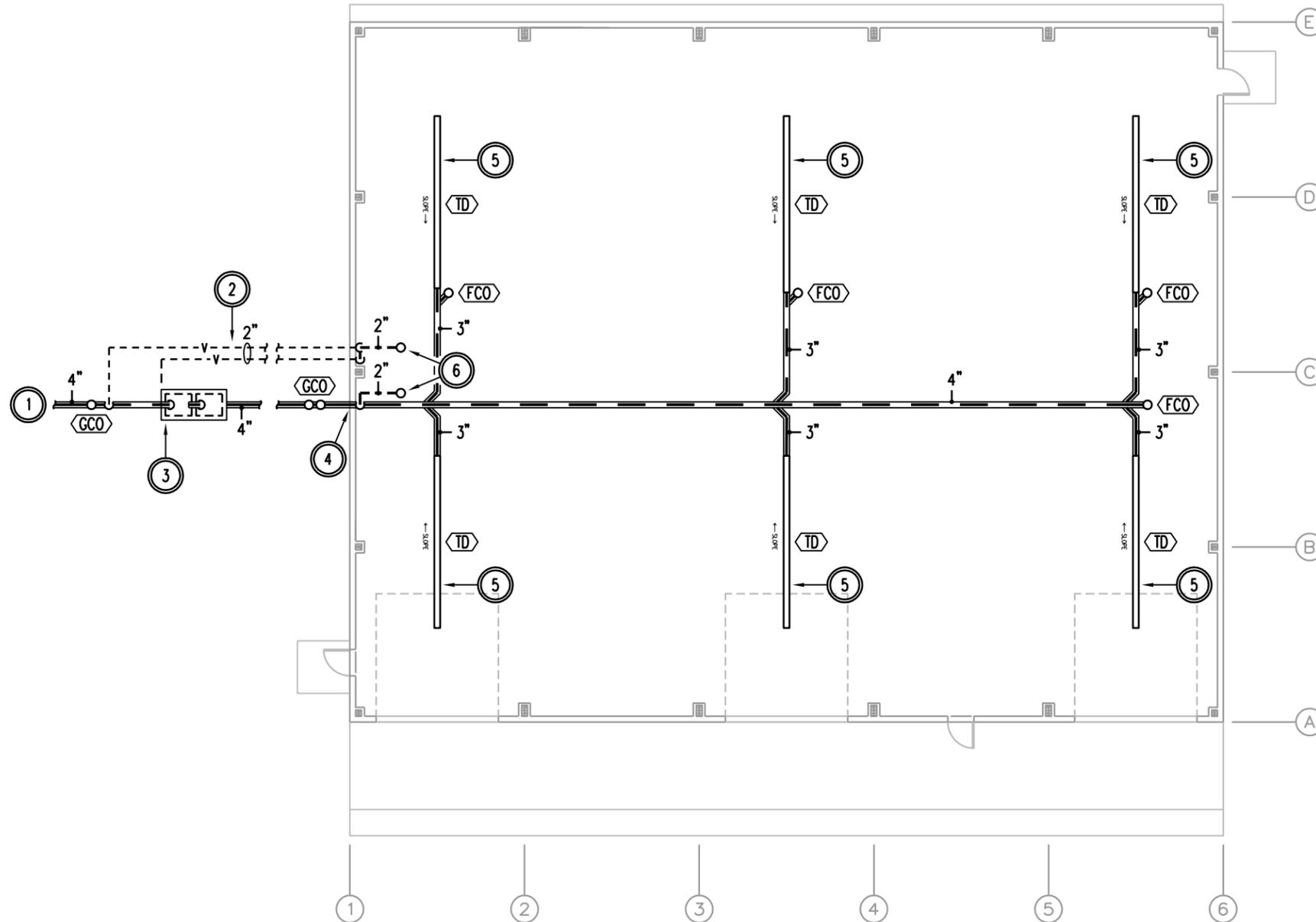


## GENERAL NOTES

- COORDINATE ALL BELOW GROUND INSTALLATION WITH FOUNDATION WORK. PROVIDE SLEEVES OR BLOCK-OUTS WHERE REQ'D. CONSULT ARCHITECT PRIOR TO DISRUPTING ANY STRUCTURAL ELEMENTS.
- TRENCH DRAIN LOCATIONS ARE SHOWN APPROXIMATE. CONFIRM ALL LOCATIONS WITH ARCHITECT PRIOR TO ROUGH-IN AND SET FINAL ELEVATION TO ACCOMMODATE SLOPING FLOORS.
- ALL BELOW PIPING SHALL BE PVC AND ALL ABOVE GRADE PIPING TO BE CAST IRON.

## KEY NOTES

- REFER TO CIVIL PLANS FOR PIPING CONTINUATION. IT IS THIS CONTRACTORS RESPONSIBILITY TO COORDINATE WITH THE SITE UTILITY DRAWINGS AND SITE UTILITY CONTRACTOR FOR ALL BUILDING SERVICES SHOWN ON THESE DRAWINGS.
- EXTEND 2" HORIZONTAL DRY VENTS FROM SAND/OIL INTERCEPTOR INTO THE BUILDING, COMBINE VENTS ABOVE GRADE AND INSTALL UP EXPOSED ON WALL TO 4" VTR WITH CAST IRON PIPING. COORDINATE EXACT LOCATION WITH OTHER TRADES.
- PROVIDE AND INSTALL 1250 GALLON PRE-CAST SAND/OIL INTERCEPTOR. COORDINATE DEPTH, LOCATION, AND INVERT ELEVATIONS WITH GC AND SITE UTILITIES. PROVIDE TRAFFIC RATED LIDS. INSTALL PER LOCAL AHJ REQUIREMENTS.
- WASTE PIPE TO SAND/OIL INTERCEPTOR SHALL BE SLOPED AT 1/4" PER FT MIN. PIPE INVERT IS APPROX. 3 FT 6 INCHES BELOW FINISH FLOOR. INSTALL SLEEVE THRU FOUNDATION OR UNDER FOOTING WHERE PIPING EXITS THE BUILDING. COORDINATE WITH STRUCTURAL PLANS. INSTALL 4" PVC SCHEDULE 40 PIPE BELOW SLAB. CONFIRM ALL INVERTS IN THE FIELD. COORDINATE LOCATION WITH SITE UTILITIES AND GC. SEE CIVIL AND ARCHITECTURAL FOR EXACT LOCATION.
- INSTALL TRENCH DRAIN AS SHOWN. COORDINATE EXACT LENGTH WITH ARCHITECTURAL DRAWINGS. COORDINATE WITH THE GC PRIOR TO INSTALLATION FOR EXACT LOCATION AND DEPTH.
- EXTEND 4" VENT UP THRU ROOF. PROVIDE INSULATION AROUND VTR 2' DOWN FROM THE BOTTOM OF THE ROOF DECK.



## MAIN FLOOR PLAN - PLUMBING

1/16" = 1'-0" 01

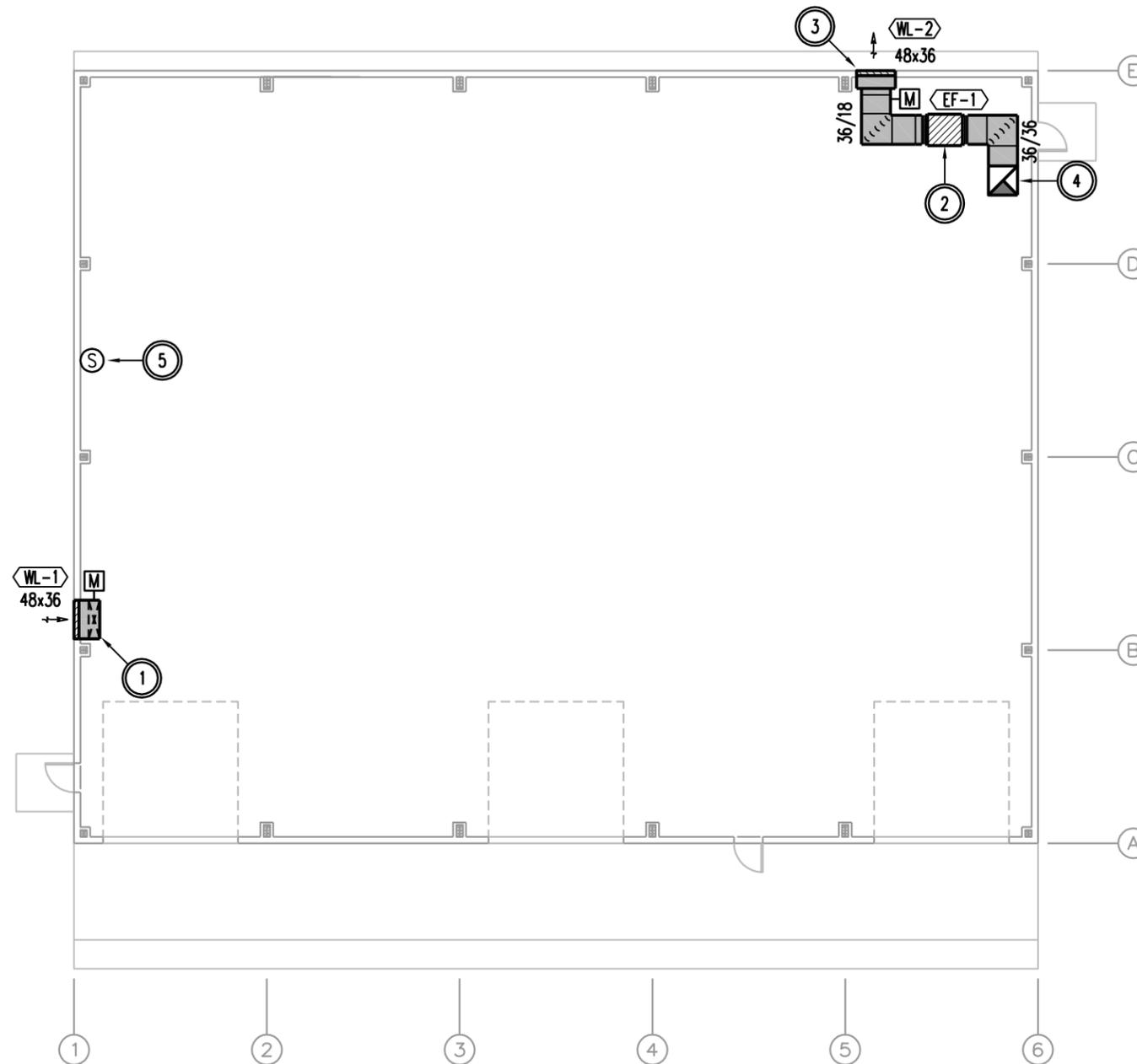
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			0 PRELIMINARY 1 DESIGN DEVELOPMENT 2 BIDDING 3 CONSTRUCTION 4 APPROVAL 5 AS BUILT 6 REVISION	2 100% DESIGN DEVELOPMENT 1 50% DESIGN DEVELOPMENT 0 PEMB FEATURES FOR OWNER APPROVAL	BLS 1/2026 NM BLS 12/2025 NM BLS 11/2025 NM	Drawn By: GMH Date 1-26 Chk'd By: AE Date - App'd. OWNERS Date -

## GENERAL NOTES

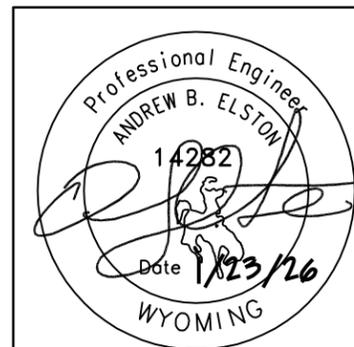
- COORDINATE EQUIPMENT LOCATIONS AND PENETRATIONS WITH STRUCTURE. PROVIDE FLASHING CONSISTENT WITH THE ROOFING MATERIAL AND SEAL WEATHER TIGHT.
- INSTALL ALL DUCTWORK TIGHT TO OR WITHIN STRUCTURE. COORDINATE LOCATIONS AND REQUIREMENTS WITH OTHER TRADES PRIOR TO FABRICATION.
- MAINTAIN ALL EQUIPMENT ACCESS AND CLEARANCE REQUIREMENTS, COORDINATE WITH ALL TRADES.
- MEANS AND METHODS ARE THE RESPONSIBILITY OF THE CONTRACTOR. INCLUDE FOR A COMPLETE INSTALLATION WITHOUT ADDITIONAL COST TO THE OWNER.

## KEY NOTES

- INSTALL A 48/36 LOUVER HIGH UP JUST BELOW THE EAVE. INCLUDING ALL NECESSARY MOUNTING HARDWARE FOR A SECURE INSTALLATION. COORDINATE ADDITIONAL BRACING WITH BUILDING MFR AS NEEDED FOR SUPPORT OF THE LOUVER AND DUCT. EXTEND 48/14 DUCT DOWN TIGHT TO THE WALL IN THIS LOCATION AS SHOWN AND TERMINATE 12" AFF WITH HARDWARE CLOTH AND A FINISHED LOOK. PROVIDE AND INSTALL A MOTORIZED DAMPER WITH 120V ACTUATOR IN THE DUCTWORK AT 7'-0" AFF. DAMPER OPERATION SHALL BE INTERLOCKED WITH CORRESPONDING EF-1.
- INSTALL INLINE EXHAUST FAN SUPPORTED FROM ROOF STRUCTURE. COORDINATE LOCATIONS AND HEIGHTS WITH ALL OBSTACLES. SUPPORT WITH THREADED ROD AND VIBRATION ISOLATION FROM OVERHEAD STRUCTURE. TRANSITION DUCTWORK AS REQ'D AND CONNECT TO LOUVER WITH FLEX CONNECTION.
- INSTALL FIXED BLADE DRAINABLE TYPE LOUVER, INCLUDING ALL NECESSARY MOUNTING HARDWARE FOR A SECURE INSTALLATION. SEE ARCHITECTURAL DRAWINGS FOR EXACT HEIGHT. INTERLOCK MOTORIZED DAMPER WITH EXHAUST FAN AND ASSOCIATED DAMPER.
- PROVIDE A 36/36 PIECE OF LINED DUCTWORK AND A 90 DEG FITTING FOR NOISE ON THE END OF THIS INLINE EXHAUST FAN. ELBOW UP AND COVER OPENING WITH 1/2" ALUMINUM WIRE MESH SCREEN. SUPPORT AS REQ'D FROM THE STRUCTURE ABOVE.
- PROVIDE AND INSTALL OPERA 6000 SERIES DIGITAL CO/NO2 GAS DETECTOR. MOUNT PER MFR'S INSTRUCTIONS AND INTERLOCK WITH LOUVER WL-2 AND EXHAUST FAN EF-1 IN THAT SPACE TO OPERATE THE FAN IN ALARM CONDITION. COORDINATE WITH THE EC.



PLAN NORTH



## MAIN FLOOR PLAN - HVAC

1/16" = 1'-0"

01



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2	100% DESIGN DEVELOPMENT	BLS	1/2026	NM
1	50% DESIGN DEVELOPMENT	BLS	12/2025	NM
0	PEMB FEATURES FOR OWNER APPROVAL	BLS	11/2025	NM

TITLE		WYOMING STATE CONSTRUCTION DEPT. PRE-ENGINEERED METAL BUILDING MAIN FLOOR PLAN - HVAC	
Drawn By: GMH	Date: 1-26	Engr. AE	Date: -
Chk'd. By: AE	Date: -	Appd. OWNERS	Date: -
Project No: 25105	Scale: AS NOTED	SHEET No.	REVISION

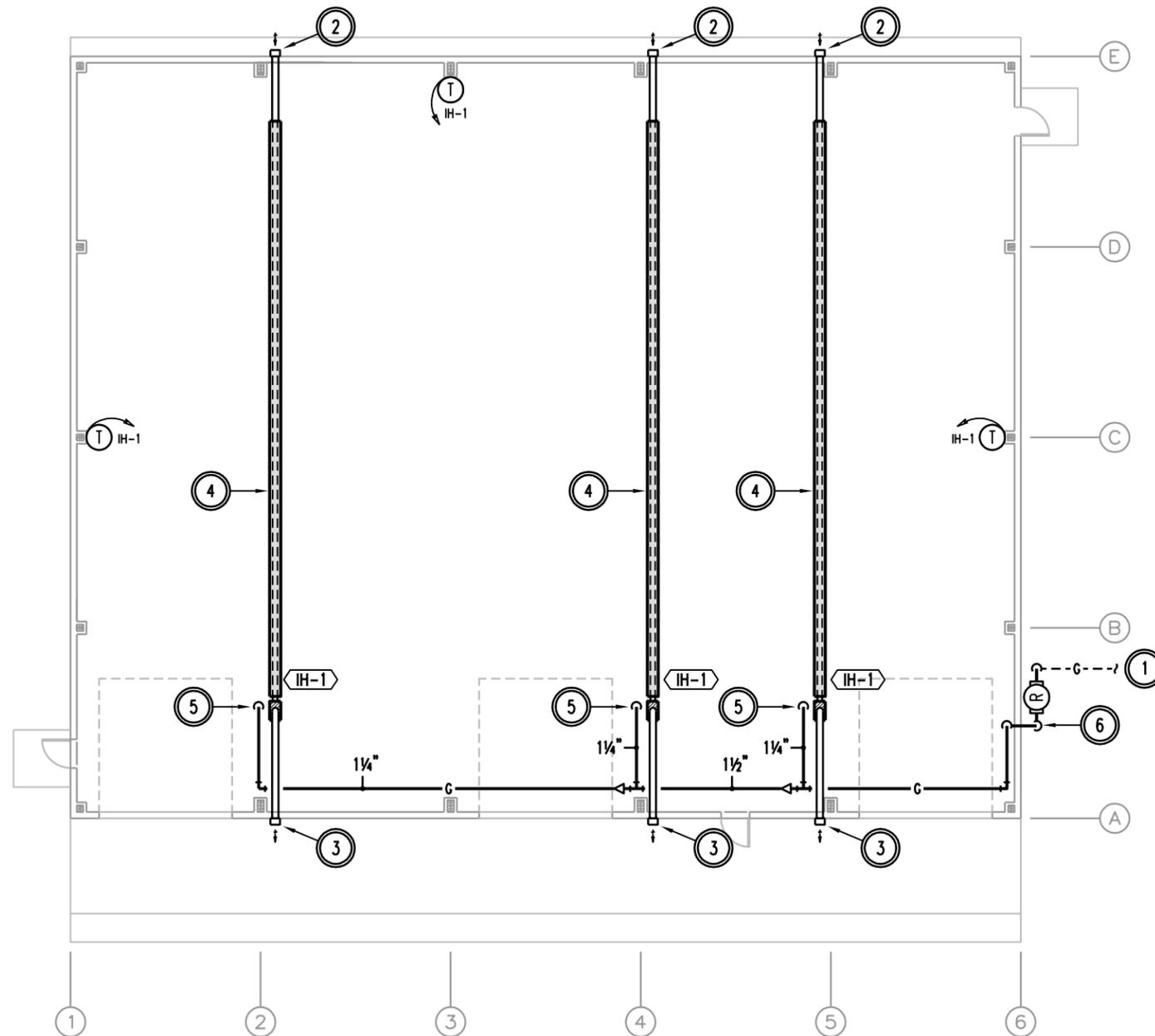
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## GENERAL NOTES

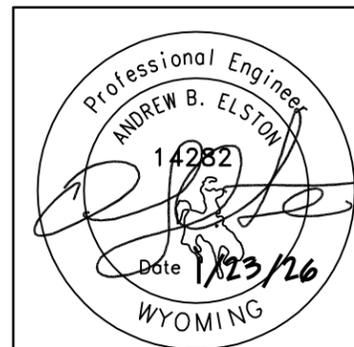
- COORDINATE EQUIPMENT LOCATIONS AND PENETRATIONS WITH STRUCTURE. PROVIDE FLASHING CONSISTENT WITH THE ROOFING MATERIAL AND SEAL WEATHER TIGHT.
- INSTALL ALL DUCTWORK TIGHT TO OR WITHIN STRUCTURE. COORDINATE LOCATIONS AND REQUIREMENTS WITH OTHER TRADES PRIOR TO FABRICATION.
- MAINTAIN ALL EQUIPMENT ACCESS AND CLEARANCE REQUIREMENTS, COORDINATE WITH ALL TRADES.
- MEANS AND METHODS ARE THE RESPONSIBILITY OF THE CONTRACTOR. INCLUDE FOR A COMPLETE INSTALLATION WITHOUT ADDITIONAL COST TO THE OWNER.

## KEY NOTES

- REFER TO CIVIL PLANS FOR PIPING CONTINUATION. IT IS THIS CONTRACTORS RESPONSIBILITY TO COORDINATE WITH THE SITE UTILITY DRAWINGS AND SITE UTILITY CONTRACTOR FOR ALL BUILDING SERVICES SHOWN ON THESE DRAWINGS.
- INSTALL 4" RADIANT TUBE FLUE VENT OUT THOUGH THE WALL WITH EXPANSION BOOT AND MFGR'S WEATHER CAP.
- INSTALL 4" COMBUSTION AIR INTAKE OUT THOUGH THE WALL AND TERMINATE WITH MFGR'S WEATHER CAP.
- SUPPORT INFRARED EQUIPMENT FROM ROOF STRUCTURE IN ACCORDANCE WITH THE MFGR'S INSTRUCTIONS. COORDINATE EXACT MOUNTING HEIGHT WITH MFGR'S INSTRUCTION. INSTALL THE TOP OF THE HEATER AT 16'-0".
- CONNECT GAS PIPING TO BURNER ASSEMBLY PER THE IPC AND MFGR REQUIREMENTS. SEE DETAIL.
- EXTEND 2" GASLINE PIPING INTO THE BUILDING AT 24" AFG. RISE UP INSIDE THE BUILDING TO THE HEATER DISTRIBUTE AS SHOWN. SUPPORT THE GAS PIPING AS REQ'D FROM THE STRUCTURE PER THE IPC. ROUTE THIS LINE HIGH UP ABOVE THE OVERHEAD DOORS AND TRACKS AS TO NOT CONFLICT. SUPPORT AS REQ'D. OFFSET AROUND STRUCTURAL MEMBERS AS REQ'D.



1/16" = 1'-0" 01



## MAIN FLOOR PLAN - HVAC



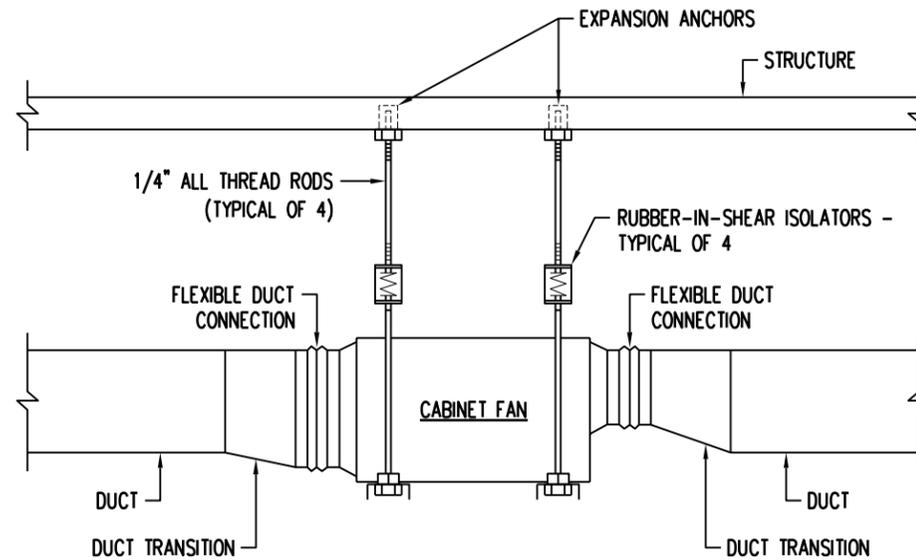
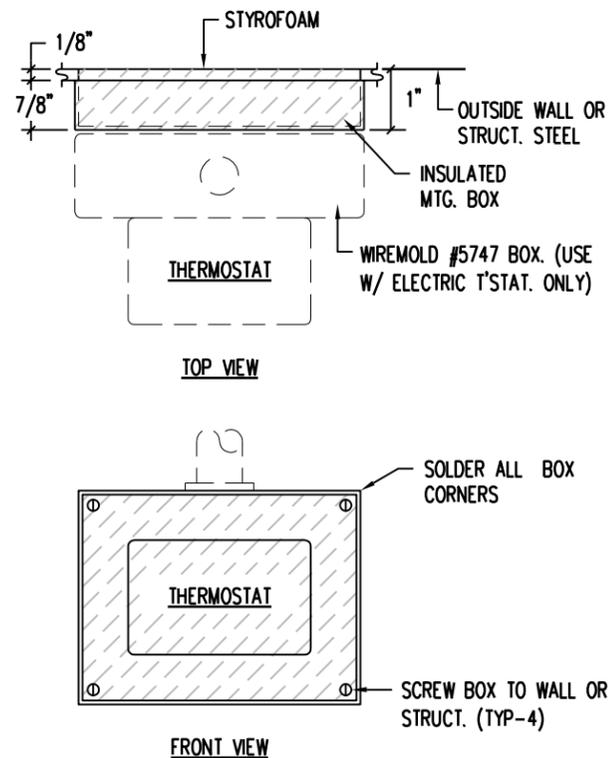
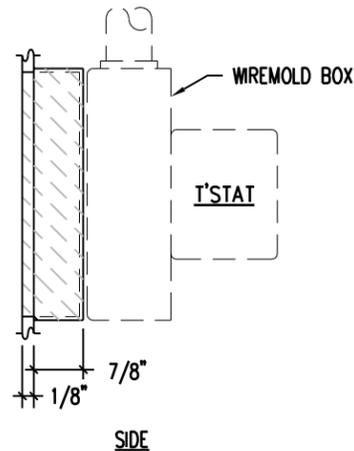
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1	50% DESIGN DEVELOPMENT	BLS	12/2025	NM
0	PEMB FEATURES FOR OWNER APPROVAL	BLS	11/2025	NM

TITLE		WYOMING STATE CONSTRUCTION DEPT. PRE-ENGINEERED METAL BUILDING MAIN FLOOR PLAN - HVAC	
Drawn By: GMH	Date: 1-26	Engr. AE	Date: _
Chk'd. By: AE	Date: _	Appd. OWNERS	Date: _
Project No: 25105	Scale: AS NOTED	SHEET No.	REVISION

**M-300 1**

CONTRACTOR TO FABRICATE 26 GA. SHEET METAL BOX. SOLDER CORNER JOINTS, FILE SMOOTH. CUT 1" THICK EXTRUDED STYROFOAM INSULATION TO FIT INSIDE BOX. PAINT BOX TO MATCH WALL. FACE DIMENSIONS OF BOX TO MATCH T'STAT., SUB-BASE, OR J-BOX AS REQUIRED. THIS BOX TO BE USED WHEN T'STAT. IS LOCATED ON EXTERIOR WALL OR STRUCT. STEEL.



T-STAT MOUNTING ON EXTERIOR WALL

NO SCALE

03

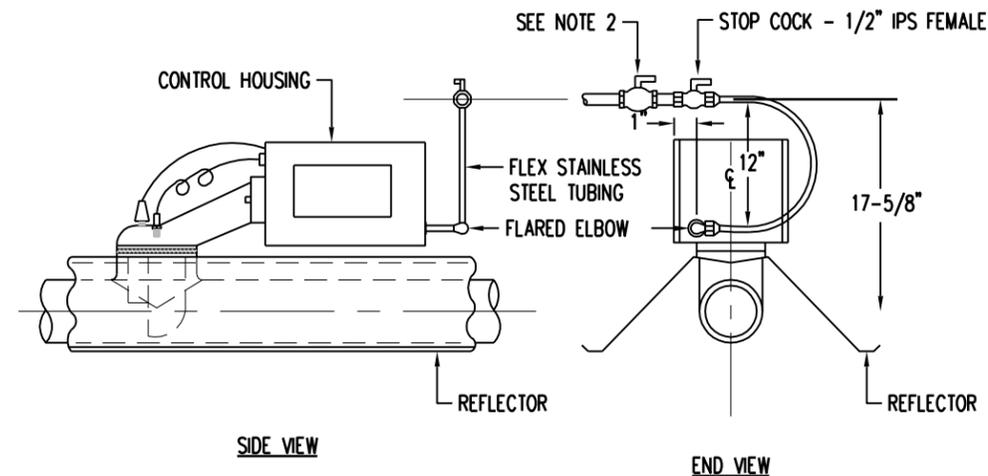
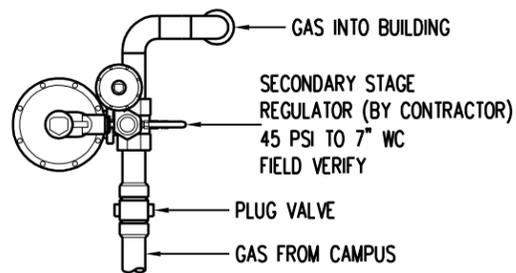
INLINE EXHAUST FAN

NO SCALE

01

NOTES:

1. THE GAS TUBING MUST BE INSTALLED WITH 12 INCH "U" BEND IN A VERTICAL PLAN PERPENDICULAR TO THE RADIANT PIPE. THE CONFIGURATION OF THE "U" BEND MUST BE MAINTAINED AS SUPPLIED. WHEN THE SYSTEM IS COLD, THE VERTICAL PLANE MUST BE VERTICAL WITHIN 1 INCH IN 12 INCHES AS MEASURED WITH A CARPENTER'S LEVEL OR PLUMB LINE.
2. HIGH PRESSURE STOP COCK SUPPLIED BY THE CONTRACTOR.



NOT USED

NO SCALE

05

GAS SERVICE DETAIL

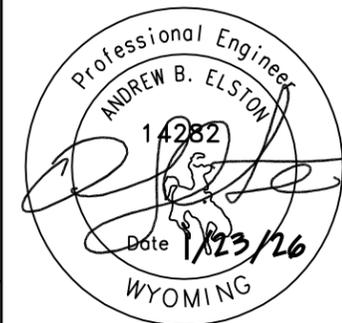
NO SCALE

04

INFRA-RED HEATER DETAIL

NO SCALE

02

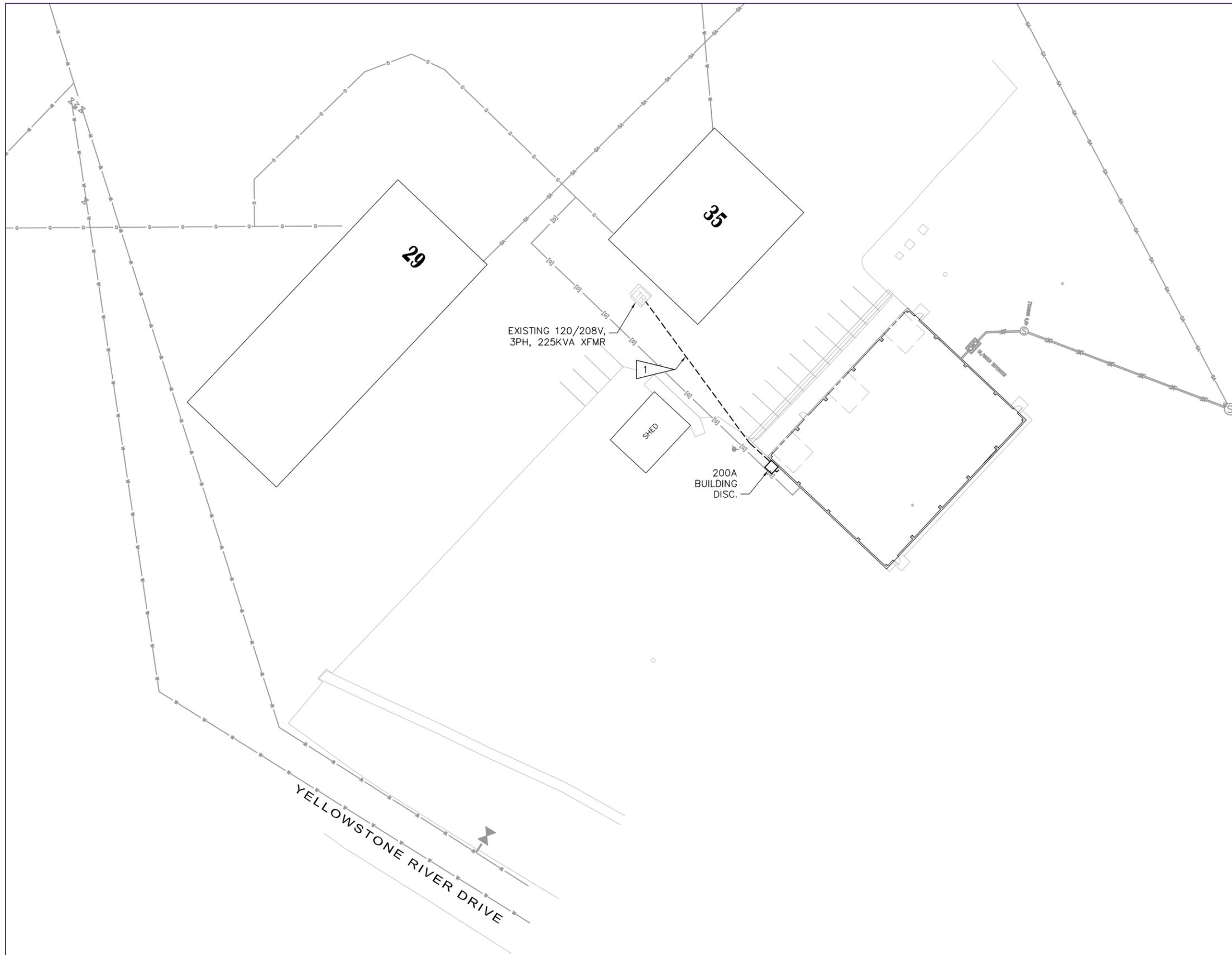


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No.	REVISIONS	BY	DATE	APPD.
2	100% DESIGN DEVELOPMENT	BLS	1/2026	NM
1	50% DESIGN DEVELOPMENT	BLS	12/2025	NM
0	PEMB FEATURES FOR OWNER APPROVAL	BLS	11/2025	NM

TITLE				WYOMING STATE CONSTRUCTION DEPT. PRE-ENGINEERED METAL BUILDING MECHANICAL DETAILS			
Drawn By: GMH	Date: 1-26	Engr: AE	Date: _	SHEET No.	REVISION		
Chk'd By: AE	Date: _	App'd. OWNERS	Date: _	M-400 1			
Project No: 25105	Scale: AS NOTED						



**GENERAL NOTES**

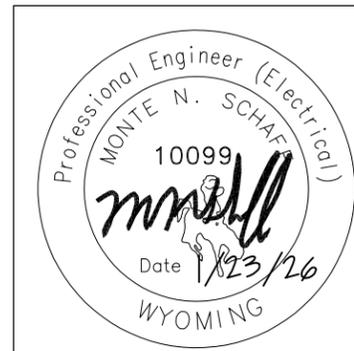
- A. SEE SPECIFICATIONS FOR MATERIALS AND METHODS.
- B. ALL ELECTRICAL INSTALLATIONS SHALL COMPLY WITH ALL APPLICABLE STATE AND LOCAL CODE REQUIREMENTS AND ORDINANCES, THE LATEST APPLICABLE REQUIREMENTS OF OSHA, AND THE CURRENT EDITION OF THE NEC (2023), AS INTERPRETED BY THE LOCAL INSPECTION AUTHORITY, WHO SHALL HAVE JURISDICTION.
- C. INSTALL EQUIPMENT GROUNDING CONDUCTORS IN ALL CONDUITS.
- D. SOME UNDERGROUND UTILITIES ARE SHOWN ON THE DRAWINGS. THESE ARE SHOWN FOR REFERENCE. THE LOCATIONS SHOWN ON THESE DRAWINGS MAY DIFFER FROM THE ACTUAL LOCATIONS; IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ALL UNDERGROUND UTILITIES AND EXERCISE CARE IN EXCAVATION. ANY DAMAGE TO EXISTING UTILITIES, WHETHER SHOWN ON THESE DRAWINGS OR NOT, SHALL BE REPAIRED AT NO EXPENSE TO THE OWNER.
- E. CALL BEFORE YOU DIG: CALL WYOMING ONE-CALL (811 OR 1-800-849-2476) TO LOCATE THE UTILITIES. NO TRENCHING OR EXCAVATION OPERATIONS SHALL TAKE PLACE UNTIL ALL UTILITIES HAVE BEEN CONTACTED AND LOCATIONS AND ELEVATIONS OF UTILITIES CONFIRMED.
- F. COORDINATE NEW ELECTRICAL SERVICE REQUIREMENTS WITH ROCKY MOUNTAIN POWER (RMP). REFER TO ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
- G. CONDUIT ROUTING IS SHOWN FOR FOR REFERENCE ONLY. IT IS THE CONTRACTORS RESPONSIBILITY TO COORDINATE EXACT ROUTING AND UTILITY SERVICE CONNECTION POINTS WITH OWNER AND GENERAL CONTRACTOR.

**FLAG NOTES**

- 1 UTILIZE EXISTING 4" CONDUIT FROM TRANSFORMER BENEATH ASPHALT. EXTEND TO NEW DISCONNECT. PROVIDE (4) #3/0 AWG CU CONDUCTORS UNDERGROUND FROM EXISTING TRANSFORMER TO 200A DISCONNECT AT STORAGE BUILDING. COORDINATE CONNECTION TO EXISTING TRANSFORMER WITH OWNER.



1" = 50'-0" 01



**ELECTRICAL SITE PLAN**

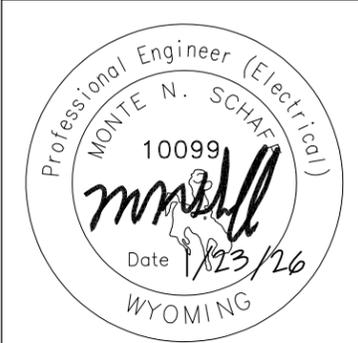
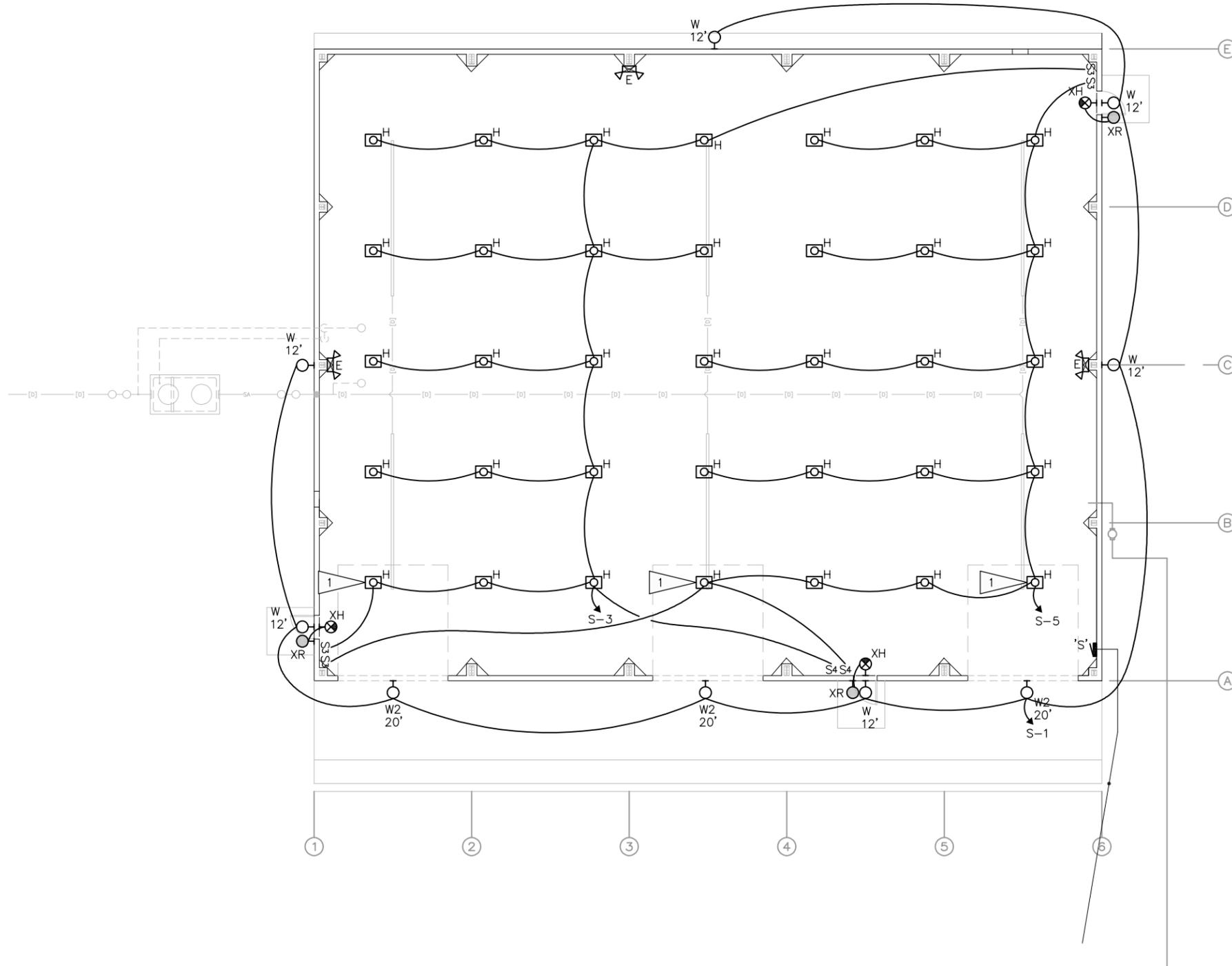
<p><b>ENGINEERING DESIGN ASSOCIATES</b> 1607 CY AVE, STE 303 // CASPER, WY 82404 307-266-5033 // MAIL@EDAENGINEERING.COM</p>	<p><b>WYOMING STATE CONSTRUCTION</b> Building Excellence. Construction Management / School Facilities</p>	<p><b>crest</b> LLC</p>	<p>PRINTED: 12/17/2025 FOR DATE</p> <p><input type="checkbox"/> PRELIMINARY  <input checked="" type="checkbox"/> DESIGN DEVELOPMENT  <input type="checkbox"/> BIDDING  <input type="checkbox"/> CONSTRUCTION  <input checked="" type="checkbox"/> APPROVAL  <input type="checkbox"/> AS BUILT  <input type="checkbox"/> REVISION</p>																																								
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**GENERAL NOTES**

- A. SEE SPECIFICATIONS FOR MATERIALS AND METHODS.
- B. ALL ELECTRICAL INSTALLATIONS SHALL COMPLY WITH ALL APPLICABLE STATE AND LOCAL CODE REQUIREMENTS AND ORDINANCES, THE LATEST APPLICABLE REQUIREMENTS OF OSHA, AND THE CURRENT EDITION OF THE NEC (2023), AS INTERPRETED BY THE LOCAL INSPECTION AUTHORITY, WHO SHALL HAVE JURISDICTION.
- C. PROVIDE FIRESTOPPING AT PENETRATIONS OF ALL FIRE RATED PARTITIONS (WALLS, CEILINGS, FLOORS, ETC.). REFER TO ARCHITECTURAL DRAWINGS. FIRESTOPPING MATERIALS SHALL BE U.L. LISTED FOR USE IN THE ASSEMBLIES IN WHICH THEY ARE INSTALLED, SHALL MEET THE REQUIREMENTS OF THE IFC AND THE AHJ, AND SHALL HAVE A RATING EQUAL OR GREATER THAN THAT OF THE SURROUNDING WALL/FLOOR/CEILING. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
- D. DEVICE LOCATIONS ARE SHOWN DIAGRAMMATICALLY, EC IS RESPONSIBLE FOR FINAL DEVICE LOCATIONS, COORDINATED WITH ALL BUILDING INTERFERENCES.
- E. COORDINATE THE LOCATIONS OF ALL CEILING MOUNTED OR SUSPENDED DEVICES ABOVE/NEAR OVERHEAD DOORS SUCH THAT DOORS ARE OPERABLE WITHOUT CONFLICTING WITH DEVICES.
- F. DO NOT INSTALL CONDUIT OR BOXES LOWER THAN 24" ABOVE THE FLOOR (TO BOTTOM OF DEVICE).
- G. EXIT LIGHTS AND EMERGENCY FIXTURES SHALL RECEIVE UNSWITCHED POWER FROM THE LOCAL LIGHTING CIRCUIT IN THE AREA.
- H. INSTALL EQUIPMENT GROUNDING CONDUCTORS IN ALL CONDUITS.

**FLAG NOTES**

- 1. COORDINATE LOCATION OF FIXTURE WITH OVERHEAD DOOR SUCH THAT DOOR IS OPERABLE WITHOUT CONFLICTING WITH FIXTURE.



**LIGHTING PLAN**

1/16" = 1'-0" 01

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1607 CY AVE, STE 303 // CASPER, WY 82404  
307-266-5033 // MAIL@EDAENGINEERING.COM

Building Excellence.  
WYOMING STATE CONSTRUCTION  
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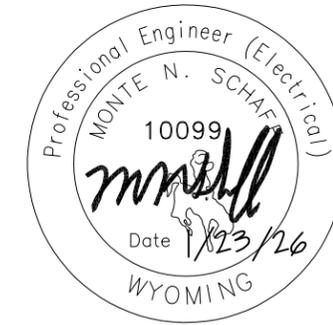
rest LLC

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- PRELIMINARY
- DESIGN DEVELOPMENT
- BIDDING
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TITLE <b>WYOMING STATE CONSTRUCTION DEPT. PRE-ENGINEERED METAL BUILDING LIGHTING PLAN</b>				SHEET No.	REVISION
Drawn By: AM	Date: 01-26	Engr. MS	Date: _	<b>E-100</b>	<b>1</b>
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Project No: 25105	Scale: AS NOTED				

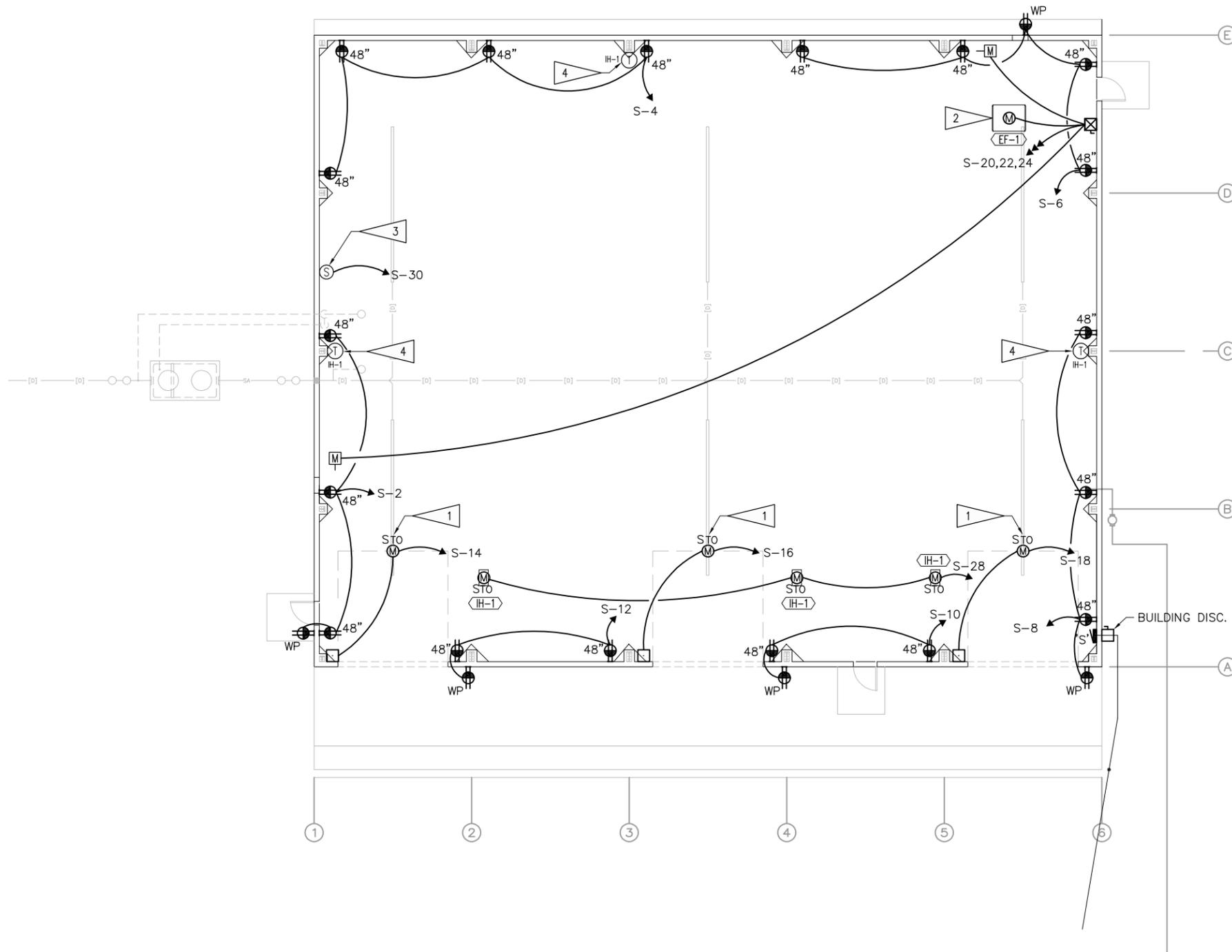


**GENERAL NOTES**

- A. SEE SPECIFICATIONS FOR MATERIALS AND METHODS.
- B. ALL ELECTRICAL INSTALLATIONS SHALL COMPLY WITH ALL APPLICABLE STATE AND LOCAL CODE REQUIREMENTS AND ORDINANCES, THE LATEST APPLICABLE REQUIREMENTS OF OSHA, AND THE CURRENT EDITION OF THE NEC (2023), AS INTERPRETED BY THE LOCAL INSPECTION AUTHORITY, WHO SHALL HAVE JURISDICTION.
- C. PROVIDE FIRESTOPPING AT PENETRATIONS OF ALL FIRE RATED PARTITIONS (WALLS, CEILINGS, FLOORS, ETC.). REFER TO ARCHITECTURAL DRAWINGS. FIRESTOPPING MATERIALS SHALL BE U.L. LISTED FOR USE IN THE ASSEMBLIES IN WHICH THEY ARE INSTALLED, SHALL MEET THE REQUIREMENTS OF THE IFC AND THE AHJ, AND SHALL HAVE A RATING EQUAL OR GREATER THAN THAT OF THE SURROUNDING WALL/FLOOR/CEILING. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
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- E. COORDINATE THE LOCATIONS OF ALL CEILING MOUNTED OR SUSPENDED DEVICES ABOVE/NEAR OVERHEAD DOORS SUCH THAT DOORS ARE OPERABLE WITHOUT CONFLICTING WITH DEVICES.
- F. DO NOT INSTALL CONDUIT OR BOXES LOWER THAN 24" ABOVE THE FLOOR (TO BOTTOM OF DEVICE).
- G. ALL RECEPTACLES FED FROM GFCI BREAKERS SHALL BE LABELED GFCI PROTECTED.
- H. FOR TEMPERATURE CONTROL EQUIPMENT, ALL POWER WIRING 120V AND ABOVE BY EC, LESS THAN 120V ROUGH-IN BY EC, LOW VOLTAGE POWER AND CONTROL WIRING BY MC. COORDINATE ALL HVAC POWER/CONTROL WIRING WITH MC.
- I. FOR WALL MOUNTED SENSORS (TEMPERATURE, CO2, PRESSURE, ETC.) EC TO PROVIDE A DEEP 4" SQUARE BOX, SINGLE GANG RING, AND 1/2" EMT WITH BUSHINGS AND PULL STRING TO ACCESSIBLE CEILING SPACE. SEE MECHANICAL DRAWINGS FOR LOCATIONS AND QUANTITIES.
- J. INSTALL EQUIPMENT GROUNDING CONDUCTORS IN ALL CONDUITS.

**FLAG NOTES**

- 1 PROVIDE CONNECTION TO OVERHEAD DOOR (BY OTHERS) AND ALL INTERCONNECTIONS BETWEEN DEVICES INCLUDING PUSHBUTTONS AND OBSTRUCTION SENSORS AS REQUIRED, WHETHER SHOWN OR NOT.
- 2 INTERLOCK MOTORIZED DAMPERS AND ASSOCIATED EXHAUST FAN WITH CO/NO2 CONTROL PANEL (BY MECHANICAL) SUCH THAT FAN OPERATES AND DAMPERS OPEN WHEN EITHER GAS IS DETECTED (OR WHEN THE SYSTEM IS MANUALLY TURNED ON). COORDINATE WITH MECHANICAL.
- 3 CO/NO2 GAS DETECTION SYSTEM (BY MECHANICAL). PROVIDE INTERCONNECTIONS AS REQUIRED BETWEEN SENSORS, PANEL, EXHAUST FAN, AND ASSOCIATED DAMPERS. PROVIDE ALL ACCESSORIES FOR A FULLY FUNCTIONAL SYSTEM. COORDINATE WITH MECHANICAL. PROVIDE 120V CONNECTION TO CONTROLLER VIA A 5VA 120/24VAC CLASS TYPE 2 TRANSFORMER.
- 4 120V T-STAT FURNISHED BY MC, INSTALLED BY EC. INTERLOCK WITH ASSOCIATED RADIANT HEATER. COORDINATE WITH MC.



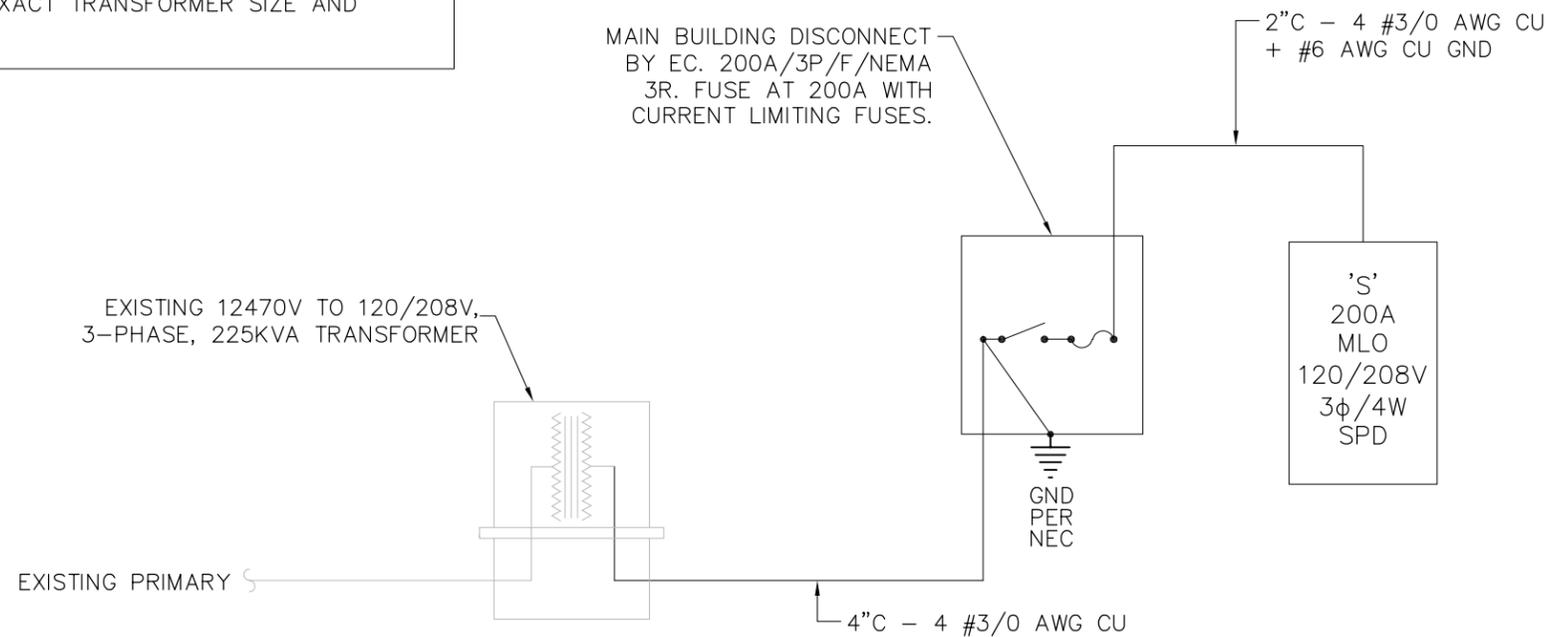
**POWER PLAN**

1/16" = 1'-0" 01

<p><b>ENGINEERING DESIGN ASSOCIATES</b> 1607 CY AVE, STE 303 // CASPER, WY 82404 307-244-5033 // MAIL@EDAENGINEERING.COM</p>	<p><b>WYOMING STATE CONSTRUCTION</b> Building Excellence. Construction Management / School Facilities</p>	<p><b>crest LLC</b></p>	<p>PRINTED: 12/17/2025 FOR DATE</p> <p><input type="checkbox"/> PRELIMINARY  <input checked="" type="checkbox"/> DESIGN DEVELOPMENT  <input type="checkbox"/> BIDDING  <input type="checkbox"/> CONSTRUCTION  <input checked="" type="checkbox"/> APPROVAL  <input type="checkbox"/> AS BUILT  <input type="checkbox"/> REVISION</p>																
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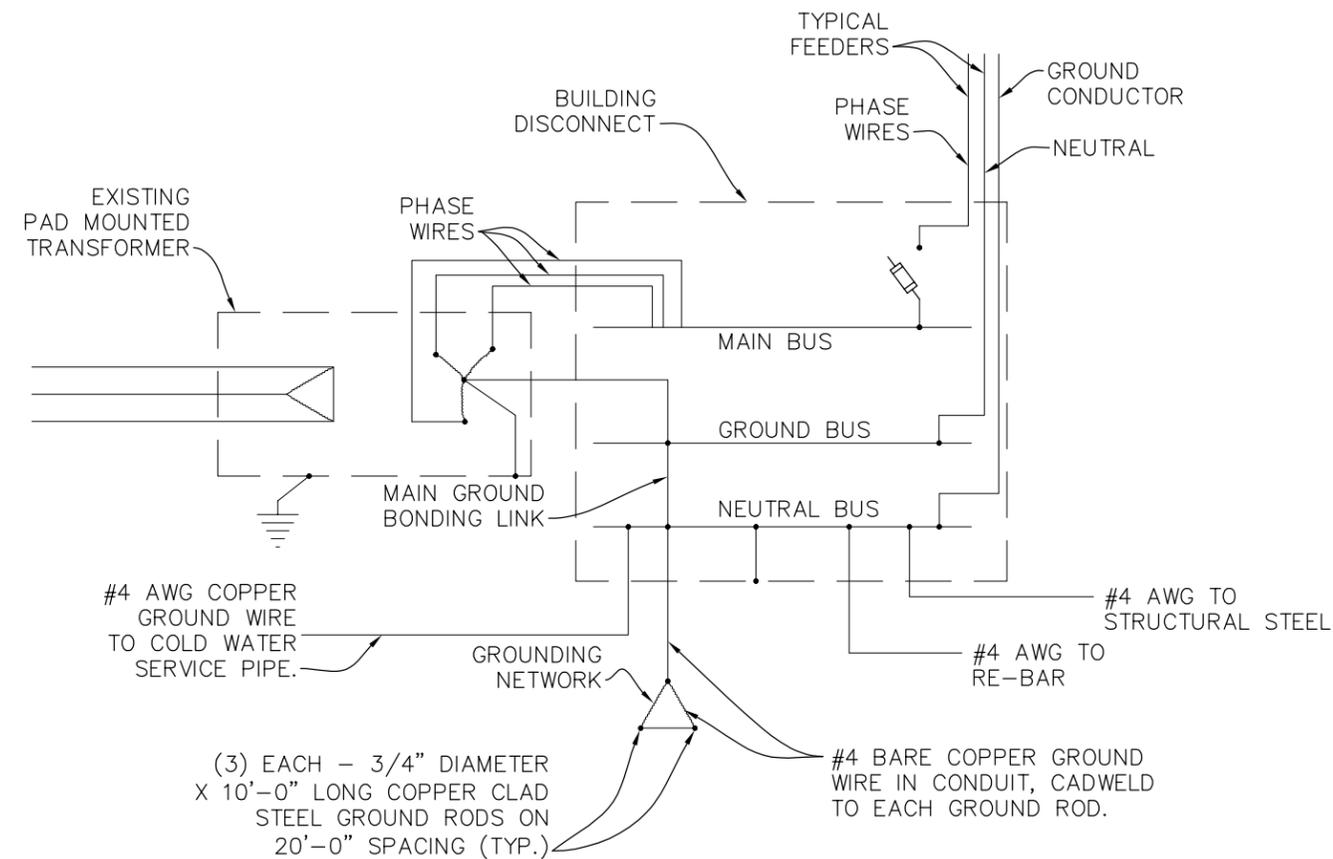
- A. REFER TO SPECIFICATIONS FOR CONDUIT REQUIREMENTS. ALL CONDUIT EXPOSED ABOVE GRADE SHALL BE RIGID STEEL OR IMC. CONDUIT THROUGH FOUNDATION WALLS AND 5' EITHER SIDE SHALL BE PVC-COATED RIGID STEEL. PVC CONDUIT SHALL NOT BE USED ABOVE GRADE.
- B. PROVIDE ARC FLASH WARNING PER NEC 110.16.
- C. ALL PANELS SHALL BE PROVIDED WITH TYPED SCHEDULES. HAND WRITTEN IS NOT ACCEPTABLE.
- D. ALL PANELS SHALL BE PROVIDED WITH ENGRAVED LABELS INDICATING FAULT CURRENT AVAILABLE AND DATE CALCULATED. COORDINATE EXACT TRANSFORMER SIZE AND IMPEDANCE WITH UTILITY.



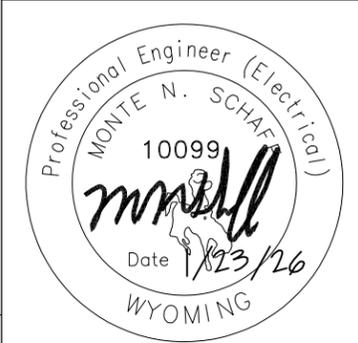
ONE-LINE DIAGRAM

NOT TO SCALE 01

 <b>ENGINEERING DESIGN ASSOCIATES</b> <small>1407 CY AVE, STE 303 // CASPER, WY 82404          307-244-5033 // MAIL@EDAENGINEERING.COM</small>	 <b>WYOMING STATE CONSTRUCTION</b> <small>Building Excellence.          Construction Management / School Facilities</small>	 <b>crest</b> <small>LLC</small>	PRINTED: 12/17/2025 FOR DATE																	
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ELECTRICAL LEGEND	
SYMBOL	DESCRIPTION
	LIGHTING OUTLET – CEILING A – FIXTURE TYPE
	LIGHTING OUTLET – WALL
	EXIT LIGHT – WITH DIRECTIONAL ARROW
	LIGHT FIXTURE – SURFACE OR PENDANT
	JUNCTION BOX – WALL
	JUNCTION BOX – CEILING
	DUPLEX RECEPTACLE EWC – ELECTRIC WATER COOLER
	DUPLEX RECEPTACLE – GFCI
	DOUBLE DUPLEX RECEPTACLE
	SPECIAL PURPOSE OUTLET a – INDICATES TYPE, SEE SPEC'S
	SINGLE POLE SWITCH a – INDICATES SWITCHING 3 – THREE WAY TO – THERMAL OVERLOAD
	CIRCUIT RUN; CONCEALED IN CEILING OR WALL
	CIRCUIT RUN; UNDERFLOOR OR UNDERGROUND
	HOME RUN A – PANEL DESIGNATION 3 – CIRCUIT NUMBER
	CONDUIT TURNS UP
	CONDUIT TURNS DOWN
	ELECTRICAL PANEL
	MAIN DISTRIBUTION PANEL
	TRANSFORMER
	FUSIBLE DISCONNECT SWITCH
	MAGNETIC STARTER OR CONTACTOR
	COMBINATION STARTER
	MOTOR OUTLET AND CONNECTION
	FUSIBLE SWITCH – SCHEMATIC
	CIRCUIT BREAKER – SCHEMATIC
	GROUND
	NOTE SYMBOL
	MECHANICAL EQUIPMENT SYMBOL
WP	WEATHERPROOF
AFF	ABOVE FINISHED FLOOR
UON	UNLESS OTHERWISE NOTED
EC	ELECTRICAL CONTRACTOR
MC	MECHANICAL CONTRACTOR



SECONDARY DISTRIBUTION GROUNDING SYSTEM

NOT TO SCALE 01

ELECTRICAL LEGEND

NOT TO SCALE 02



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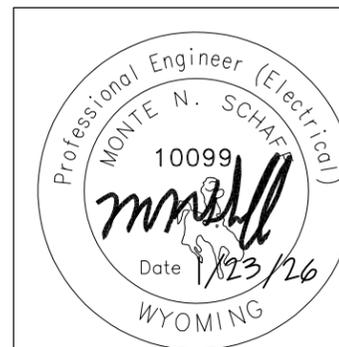
## LIGHTING FIXTURE SCHEDULE

TYPE	LAMPS	DESCRIPTION	WATTAGE	TEMP	LUMENS	LIFE	FINISH	MOUNTING	MANUFACTURER	CATALOG NO.
E	LED	EMERGENCY EGRESS LIGHT	2.7 PER LAMP	-	-	-	WHITE	SURFACE/ WALL 8' AFF	CURRENT	CU2SD
H	LED	LED HIGH BAY	83	4000K	12,000	L70=100,000	WHITE	BOTTOM EVEN WITH STRUCTURE	LITHONIA	CPHB AL013 MVOLT SWW9 80CRI DWH
W	LED	EXTERIOR WALL PACK, TYPE III DISTRIBUTION, INTEGRAL PHOTO CONTROL	29	4000K	4,045	L80=60,000	COORDINATE WITH OWNER	WALL @ 12' AFF	BEACON	VPW2-48L-30-4K8-3-UNV-PC
W2	LED	EXTERIOR WALL PACK, TYPE III DISTRIBUTION, INTEGRAL PHOTO CONTROL	46	4000K	6,057	L80=60,000	COORDINATE WITH OWNER	WALL @ 20' AFF	BEACON	VPW2-48L-45-4K8-3-UNV-PC
XH	LED	EXIT/EGRESS COMBO SIGN WITH 6" LETTERS, ADJUSTABLE LED EGRESS LAMPS, HIGH IMPACT THERMOPLASTIC, HIGH INTENSITY LED LIGHT SOURCE, NiCd BATTERY, SELF-DIAGNOSTICS, UNIVERSAL MOUNTING FOR CEILING/WALL OR SINGLE/DOUBLE FACE, REMOTE CAPABILITY	1.5 PER HEAD	-	-	-	WHITE W/ RED LETTERS	UNIVERSAL; CEILING OR WALL @ 8' AFF	CURRENT	CCRRCS
XR	LED	EXTERIOR REMOTE EMERGENCY EGRESS LIGHT, SINGLE HEAD, POWERED VIA TYPE 'XH'	1W PER HEAD	-	-	-	GREY	SURFACE/ WALL 8' AFF	CURRENT	CWRS

NOTES: 1. ONLY MANUFACTURERS LISTED ABOVE ARE APPROVED FOR BIDDING; OTHER MANUFACTURERS MUST SUBMIT FOR PRIOR APPROVAL PER DIVISION 1 REQUIREMENTS.  
 2. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR TRIM TYPES (FLANGE KITS, ETC.) AND ALL HANGING ACCESSORIES. COORDINATE WITH REFLECTED CEILING PLAN.  
 3. ALL LED LIGHT FIXTURES SHALL BE DESIGN LIGHTS CONSORTIUM (DLC) QUALIFIED OR ENERGY STAR RATED AND ACCEPTED BY UTILITY INCENTIVE PROGRAM.

## MECHANICAL EQUIPMENT SCHEDULE

KEY	ITEM	LOAD	VOLTS	φ	CONDUIT	WIRING	BRKR	CIRCUIT NUMBER	NOTES
EF-1	EXHAUST FAN	3HP	208	3	3/4"	3#12 + #12 GND	20/3	S-20,22,24	PROVIDE 30A/3P/F/NEMA 3R COMBINATION STARTER/DISCONNECT SWITCH. FUSE PER EQUIPMENT NAMEPLATE. INTERLOCK WITH ASSOCIATED MOTORIZED DAMPERS, AND CO/NO2 CONTROL PANEL SUCH THAT WHEN CONTROLLER IS TURNED TO MANUAL ON OR SENSOR DETECTS GAS; EXHAUST FAN TURNS ON AND ASSOCIATED DAMPERS OPEN. COORDINATE WITH MECHANICAL.
IH-1	INFRARED HEATER	1 A	120	1	1/2"	2#12 + #12 GND	20/1	S-28	TYPICAL OF 3. LINE VOLTAGE THERMOSTAT FURNISHED BY MECHANICAL, INSTALLED BY ELECTRICAL.



			PRINTED: 12/17/2025 FOR DATE _____ <input type="checkbox"/> PRELIMINARY <input checked="" type="checkbox"/> DESIGN DEVELOPMENT <input type="checkbox"/> BIDDING <input type="checkbox"/> CONSTRUCTION <input checked="" type="checkbox"/> APPROVAL <input type="checkbox"/> AS BUILT <input type="checkbox"/> REVISION	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>No.</th> <th>REVISIONS</th> <th>BY</th> <th>DATE</th> <th>APPD.</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>50% DESIGN DEVELOPMENT</td> <td>BLS</td> <td>12/2025</td> <td>NM</td> </tr> <tr> <td>0</td> <td>PEMB FEATURES FOR OWNER APPROVAL</td> <td>BLS</td> <td>11/2025</td> <td>NM</td> </tr> </tbody> </table>	No.	REVISIONS	BY	DATE	APPD.	1	50% DESIGN DEVELOPMENT	BLS	12/2025	NM	0	PEMB FEATURES FOR OWNER APPROVAL	BLS	11/2025	NM	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">TITLE</th> <th colspan="2">WYOMING STATE CONSTRUCTION DEPT.</th> <th colspan="2">PRE-ENGINEERED METAL BUILDING</th> <th colspan="2">ELECTRICAL SCHEDULES</th> </tr> </thead> <tbody> <tr> <td>Drawn By:</td> <td>AM</td> <td>Date:</td> <td>01-26</td> <td>Engr. MS</td> <td>Date:</td> <td></td> <td></td> </tr> <tr> <td>Chk'd By:</td> <td>MS</td> <td>Date:</td> <td></td> <td>Appd. OWNERS</td> <td>Date:</td> <td></td> <td></td> </tr> <tr> <td>Project No.:</td> <td>25105</td> <td>Scale:</td> <td>AS NOTED</td> <td colspan="4"></td> </tr> </tbody> </table>	TITLE		WYOMING STATE CONSTRUCTION DEPT.		PRE-ENGINEERED METAL BUILDING		ELECTRICAL SCHEDULES		Drawn By:	AM	Date:	01-26	Engr. MS	Date:			Chk'd By:	MS	Date:		Appd. OWNERS	Date:			Project No.:	25105	Scale:	AS NOTED					SHEET No. <b>E-303</b> REVISION <b>1</b>
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