

THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

BLACKFOOT 1, 7, 13 BLACKFOOT IDAHO STAKE ROOF & HVAC REPLACEMENT

DRAWING INDEX		DRAWING INDEX		DRAWING INDEX	
SHEET NUMBER	SHEET TITLE	SHEET NUMBER	SHEET TITLE	SHEET NUMBER	SHEET TITLE
GENERAL					
G1	COVER SHEET				
ARCHITECTURAL					
A1	ROOF PLAN				
A2	DETAILS				
A3	DETAILS				
A4	EXISTING CONDITION PHOTOS				
A5	EXISTING CONDITION PHOTOS				
A6	EXISTING CONDITION PHOTOS				
MECHANICAL					
ME101	MECHANICAL/ELECTRICAL FLOOR PLAN				
ME401	MECHANICAL/ELECTRICAL DEMOLITION MEZZANINE				
ME402	MECHANICAL/ELECTRICAL DEMOLITION MEZZANINE				
ME501	MECHANICAL/ELECTRICAL DETAILS				
ME601	MECHANICAL/ELECTRICAL SCHEDULES				

DESIGN TEAM

ARCHITECT
JAMES K LYSTRUP ARCHITECT
2453 MALAGA AVE.
SANTA CLARA UT 84765

P: (208) 406-3153
jameslystrup@gmail.com





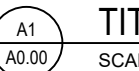
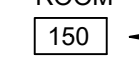

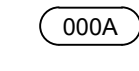
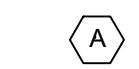
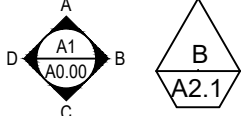
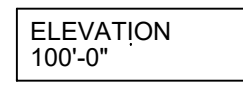

CONTACT:
JAMES LYSTRUP

MECHANICAL ENGINEER
ENGINEERED SYSTEMS ASSOCIATES
1355 EAST CENTER
POCATELLO, ID 98201

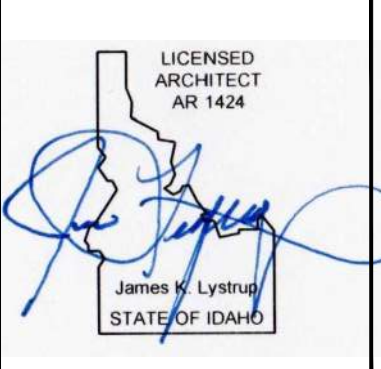
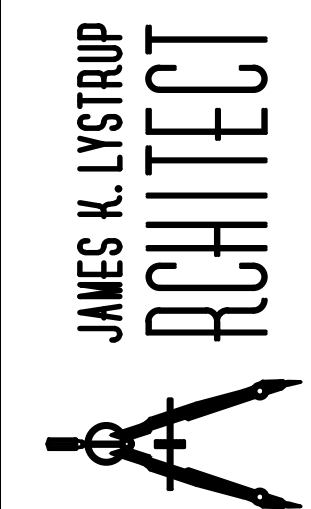
P: (208) 233-0501

CONTACT:
DAVE HANSEN

STANDARD SYMBOLS LEGEND

DETAIL		DETAIL LETTER
		SHEET NUMBER
SECTION		SECTION LETTER
		SHEET NUMBER
SHEET REFERENCE		TITLE SCALE
ROOM NUMBER		ROOM NAME
		ROOM NUMBER
DOOR DESIGNATION		
WINDOW DESIGNATION		
ELEVATION	(VIEW) 	
ELEVATION	(DATUM) 	
VISUAL DISPLAY BOARDS		

2453 Malaga Ave
Santa Clara, UT 84765
Phone (208) 406-3153



HIGHLAND WARD
REROOF
1650 HIGHLAND
BLACKFOOT IDAHO 83221

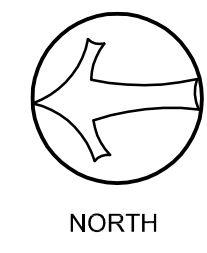
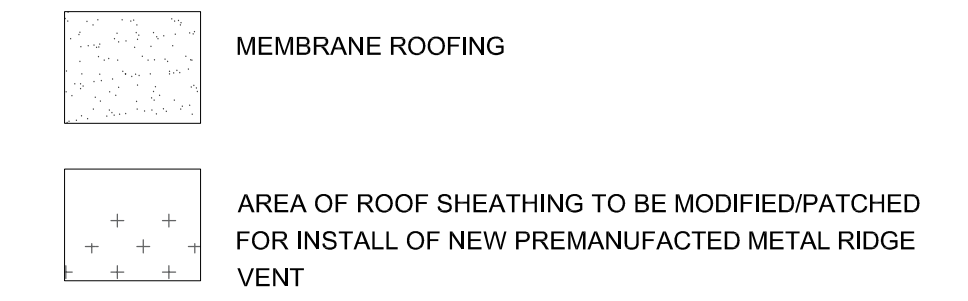
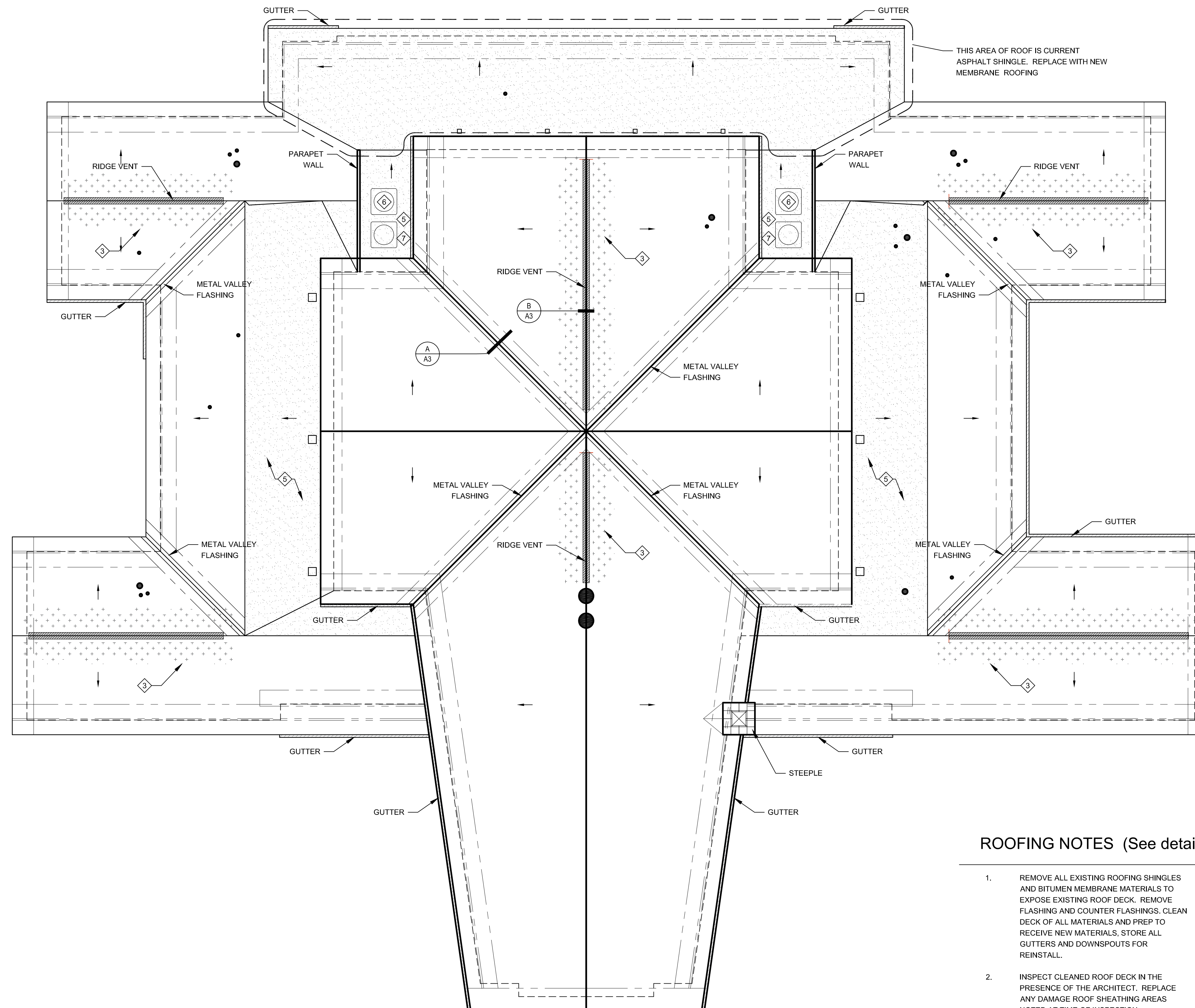
Project for:
THE CHURCH OF
JESUS CHRIST
OF LATTER-DAY SAINTS

Property Number: 513-2592
Plan Series:
Date: 2025.02.04

Sheet Title:
COVER SHEET
INDEX

Sheet:

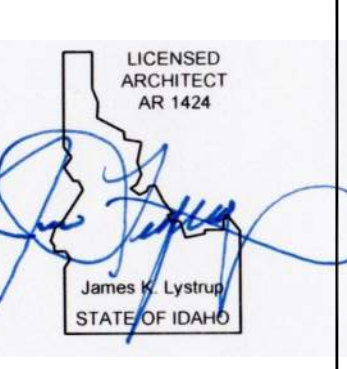
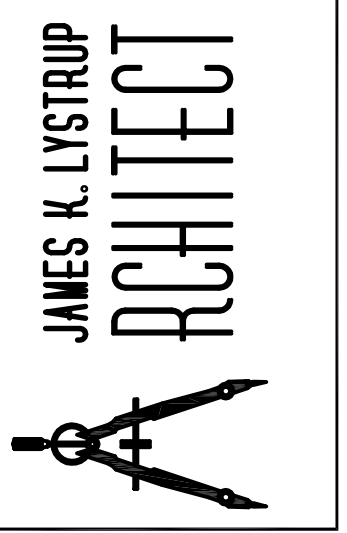
G1



ROOFING NOTES (See details for additional information)

1. REMOVE ALL EXISTING ROOFING SHINGLES AND BITUMEN MEMBRANE MATERIALS TO EXPOSE EXISTING ROOF DECK. REMOVE FLASHING AND COUNTER FLASHINGS. CLEAN DECK OF ALL MATERIALS AND PREP TO RECEIVE NEW MATERIALS. STORE ALL GUTTERS AND DOWNSPOUTS FOR REINSTALL.
2. INSPECT CLEANED ROOF DECK IN THE PRESENCE OF THE ARCHITECT. REPLACE ANY DAMAGE ROOF SHEATHING AREAS NOTED AT TIME OF INSPECTION.
3. PATCH ROOF SHEATHING AT EXISTING RIDGE VENT LOCATION TO ALLOW INSTALL OF NEW VENT SYSTEM.
4. COVER ENTIRE EXISTING DECK WITH ONE LAYER OF 1/2" DENSDECK, AND PREPARE DECK TO RECEIVE NEW MATERIALS
5. IN AREA TO RECEIVE NEW MEMBRANE, INSTALL NEW TAPERED INSULATION SYSTEM TO PROVIDE A MIN 1/4" SLOPE OVER ENTIRE DECK. ENSURE THERE ARE NO AREAS OF PONDING.
6. LIFT ALL EXISTING MECHANICAL EQUIPMENT, ELECTRICAL LINES AND PIPING. SET EQUIPMENT LEGS ON SACRIFICIAL MEMBRANE AS RECOMMENDED BY MFG.
7. REMOVE ALL EXISTING MECHANICAL PIPE INSULATION. INSTALL NEW, COAT WITH ARMAFLEX PAINT, AND COVER WITH NEW METAL HOUSING, TO PROTECT FROM UVDETERIORATION.
8. INSTALL NEW CONTINUOUS METAL DRIP EDGE AT ENTIRE PERIMETER OF ROOF, COLOR TO MATCH EXISTING FASCIA
9. PROVIDE AND INSTALL NEW METAL DRIP EDGE, NEW FLASHING AND COUNTER-FLASHING AT ALL LOCATIONS. WHERE FLASHING ARE VISIBLE FROM BELOW, INSTALL PRE-FINISHED METAL TO MATCH FASCIA METAL
10. PROVIDE AND INSTALL NEW ROOF JACKS AND PIPE FLASHING AT ALL EXISTING ROOF PENETRATIONS. GC TO VERIFY THE NUMBER AND SIZE REQUIRED ONSITE.
11. APPLY UNDERLAYMENT, VALLEY FLASHING, METAL, FLASHING ETC PER DETAILS.
12. AFTER ROOF DECK HAS BEEN PREPARED, SECONDARY AND PRIMARY UNDERPAYMENT INSTALLED, AND SECURED, INSTALL NEW SBS MODIFIED ASPHALT FIBERGLASS SHINGLES. (EXCEPT AREA INDICATED TO BE MEMBRANE)
13. REINSTALL GUTTERS AND DOWNSPOUTS THAT ARE NOT DAMAGED, REPLACE ANY CRACKED, DENTED OR BENT PIECES
14. ANY DAMAGE TO EXISTING CEILINGS FROM MOISTURE OR DAMAGE OCCURRING DURING REMOVAL AND INSTALLATION OF ROOF MATERIALS SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR. THIS INCLUDE REPLACEMENT OF DAMAGED MECHANICAL AND ELECTRICAL EQUIPMENT

2453 Malaga Ave
Santa Clara, UT 84765
Phone (208) 406-3153



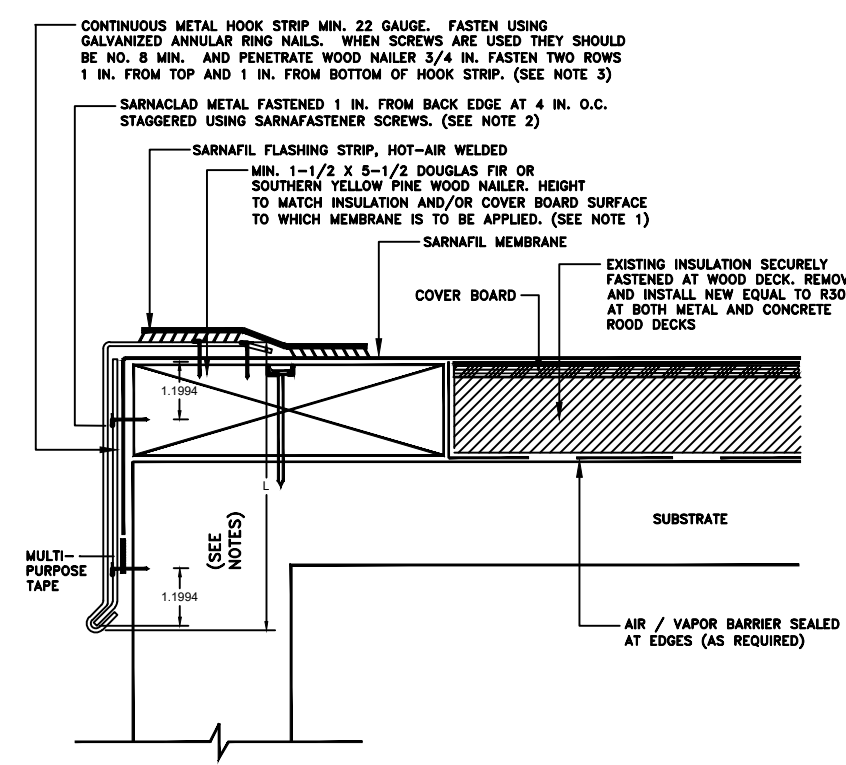
BLACKFOOT 1, 7, 13
BLACKFOOT IDAHO STAKE
ROOF & HVAC REPLACEMENT
1650 HIGHLAND
BLACKFOOT IDAHO 83221

Project for:
THE CHURCH OF
JESUS CHRIST
OF LATTER-DAY SAINTS

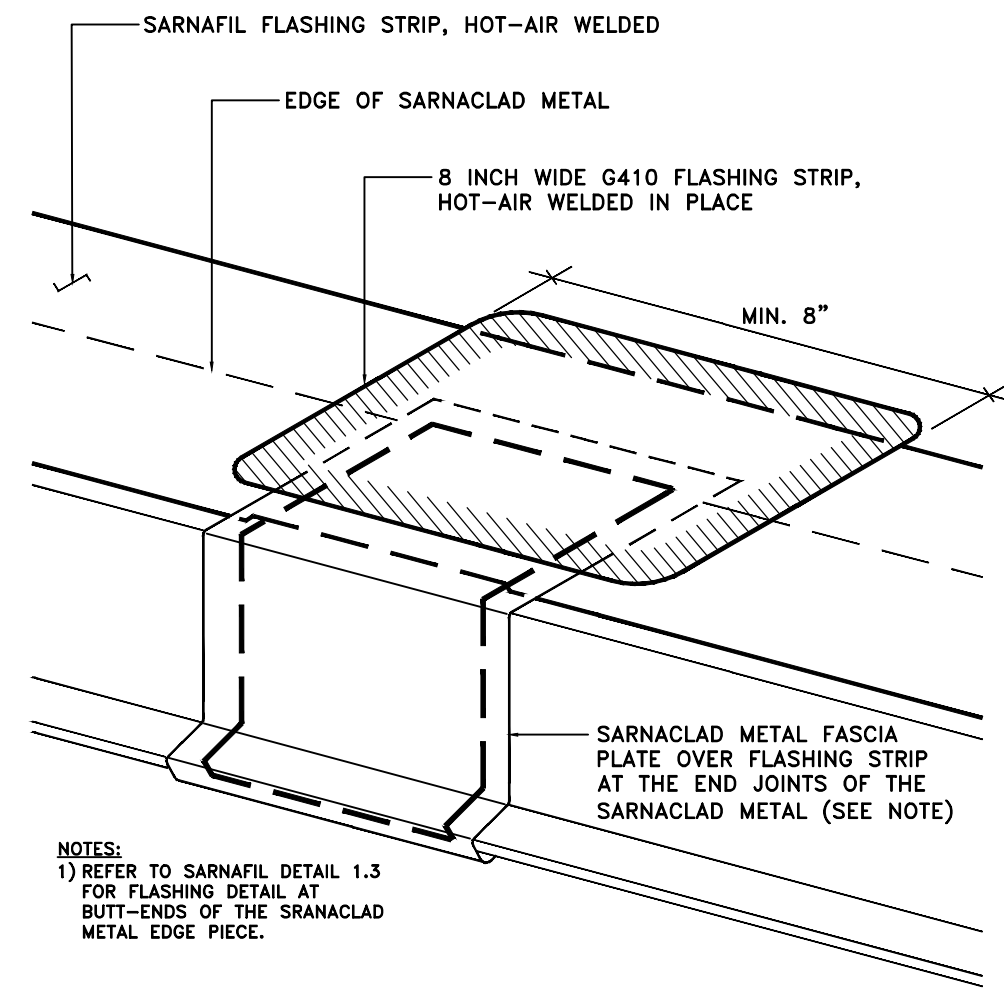
Property Number:	513-2592
Plan Series:	
Date:	2025, 04,09
Sheet Title:	

Sheet Title:
ROOF PLAN

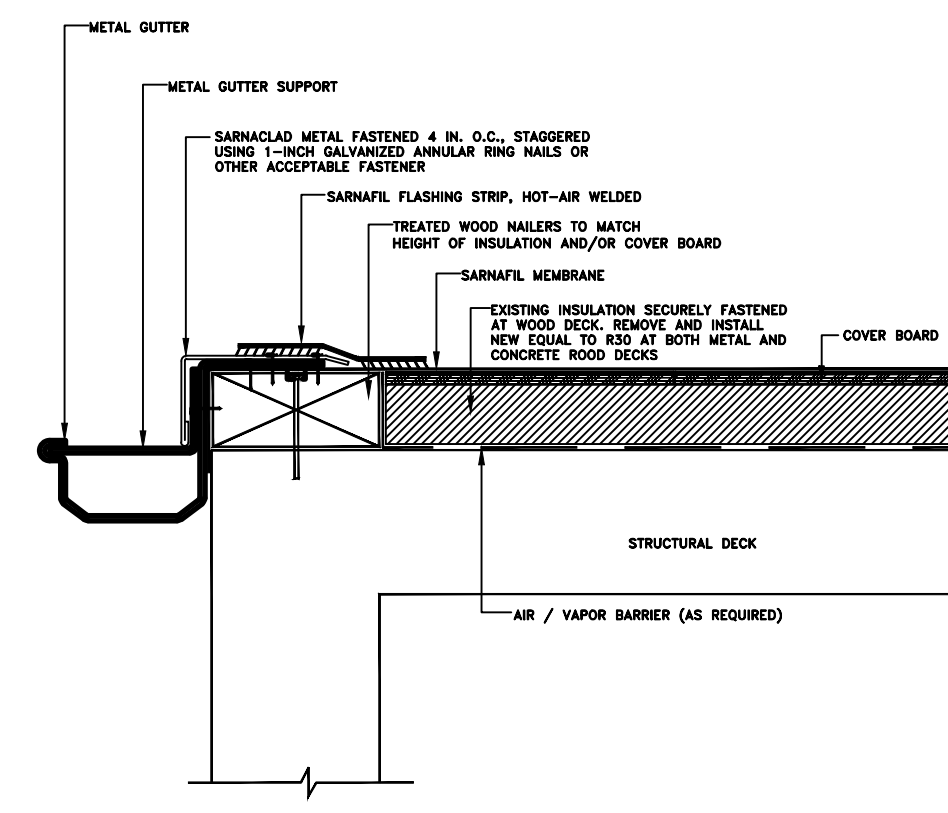
Sheet:
A1



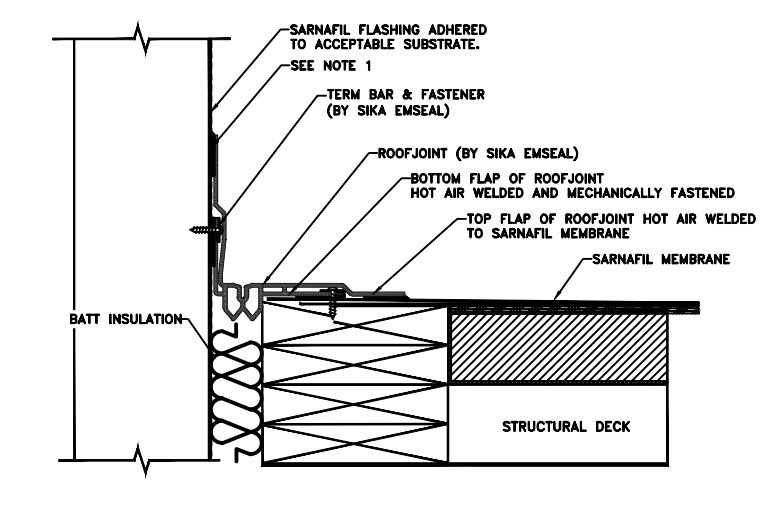
1 METAL EDGE
SCALE: NTS



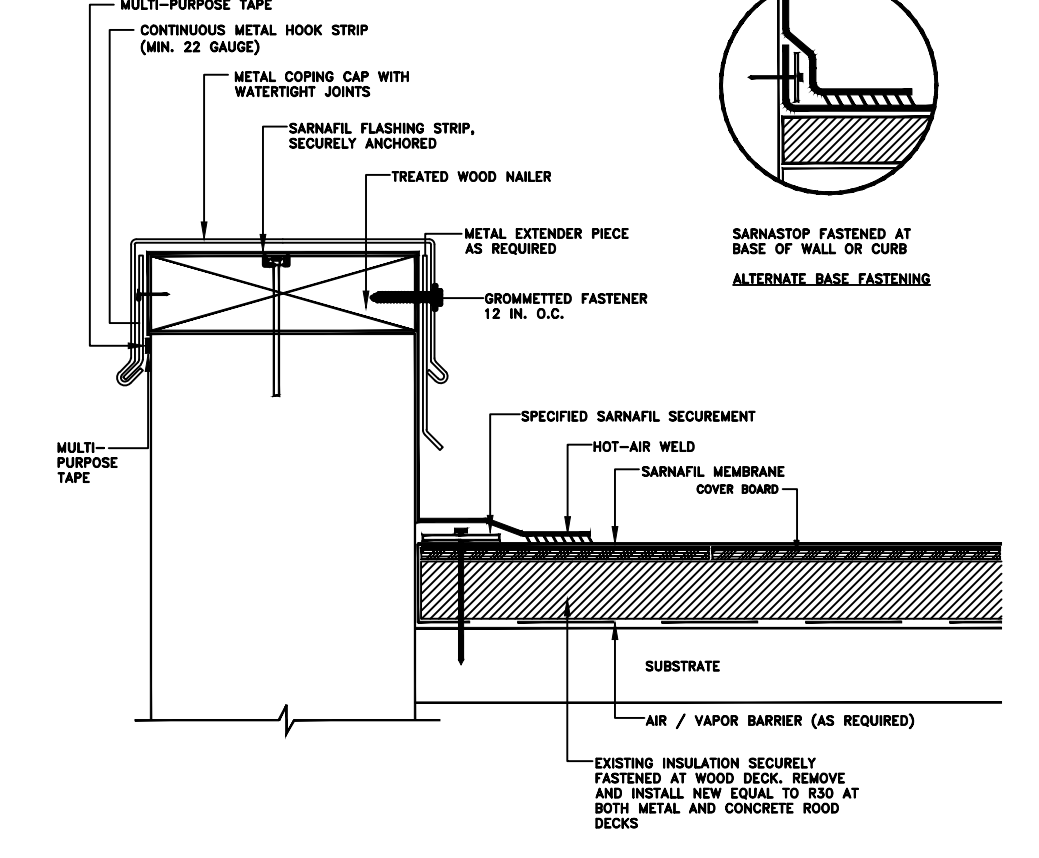
2 FASCIA PLATE AT METAL JOINTS
SCALE: NTS



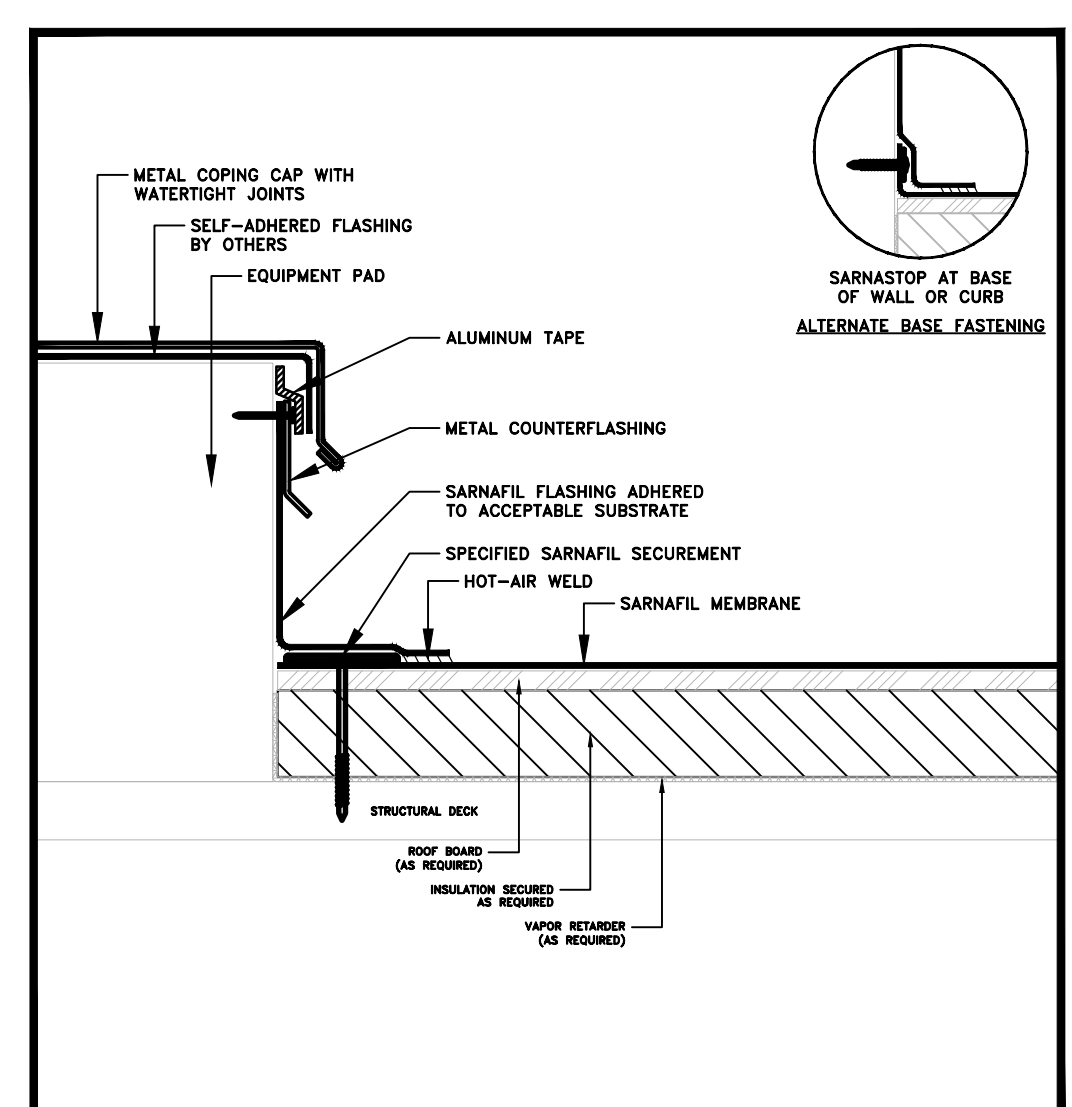
3 GUTTER EDGE
SCALE: NTS



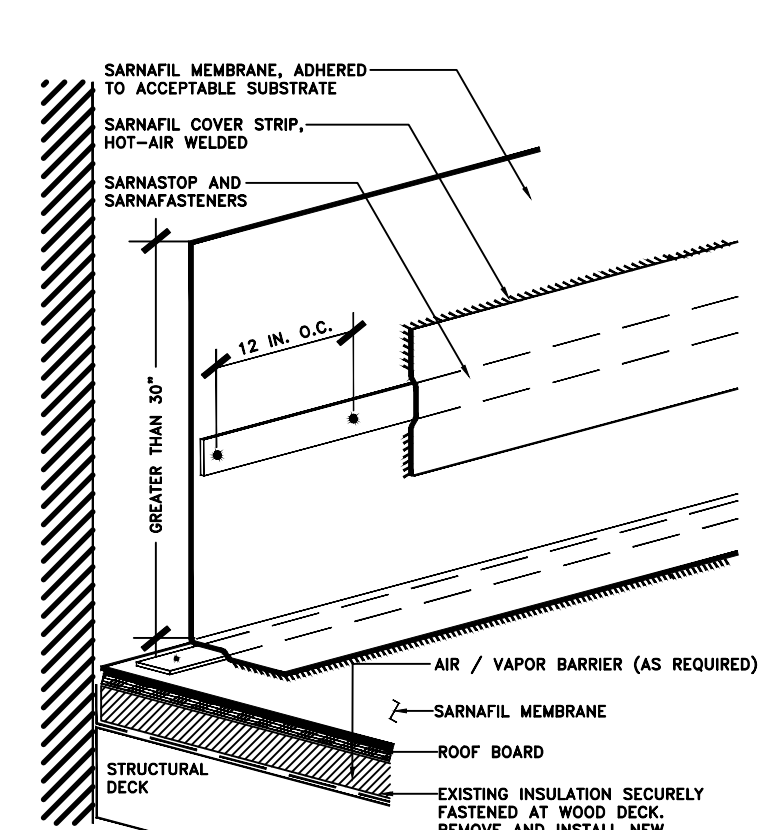
4 DECK TO WALL EXPANSION
SCALE: NTS



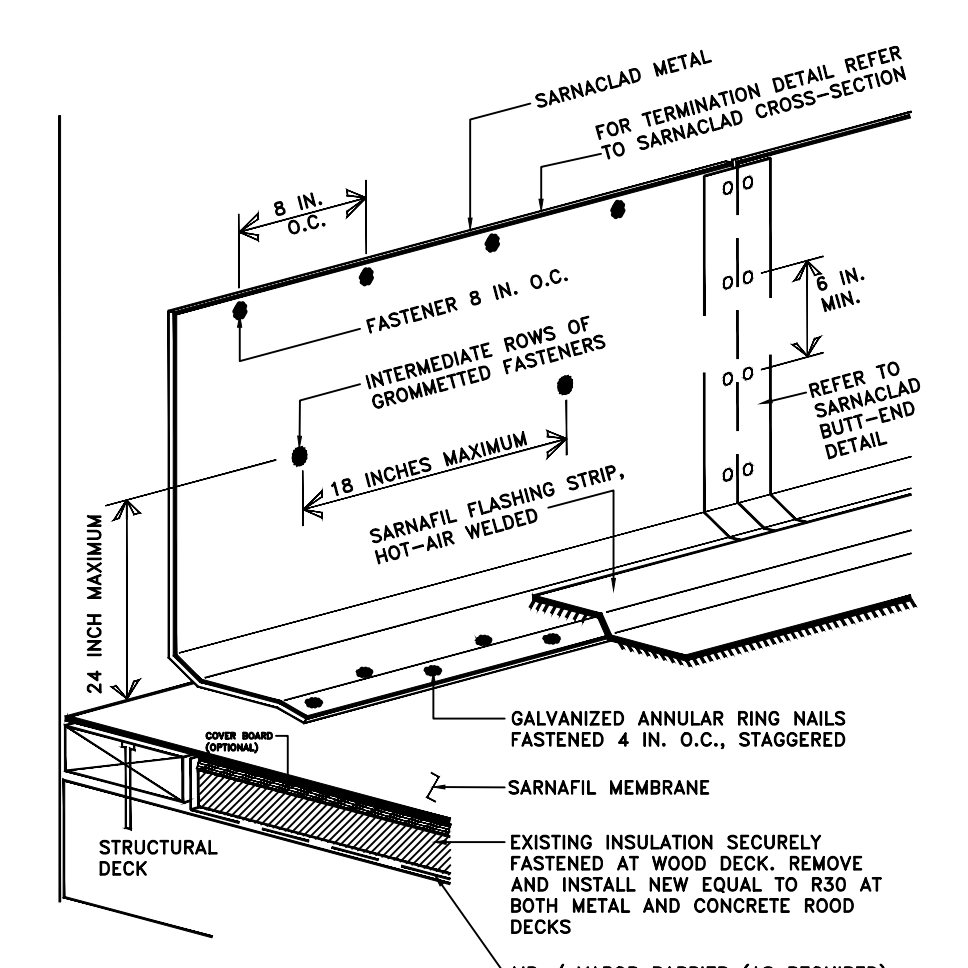
5 PARAPET WALL WITH METAL COPING CAP
SCALE: NTS



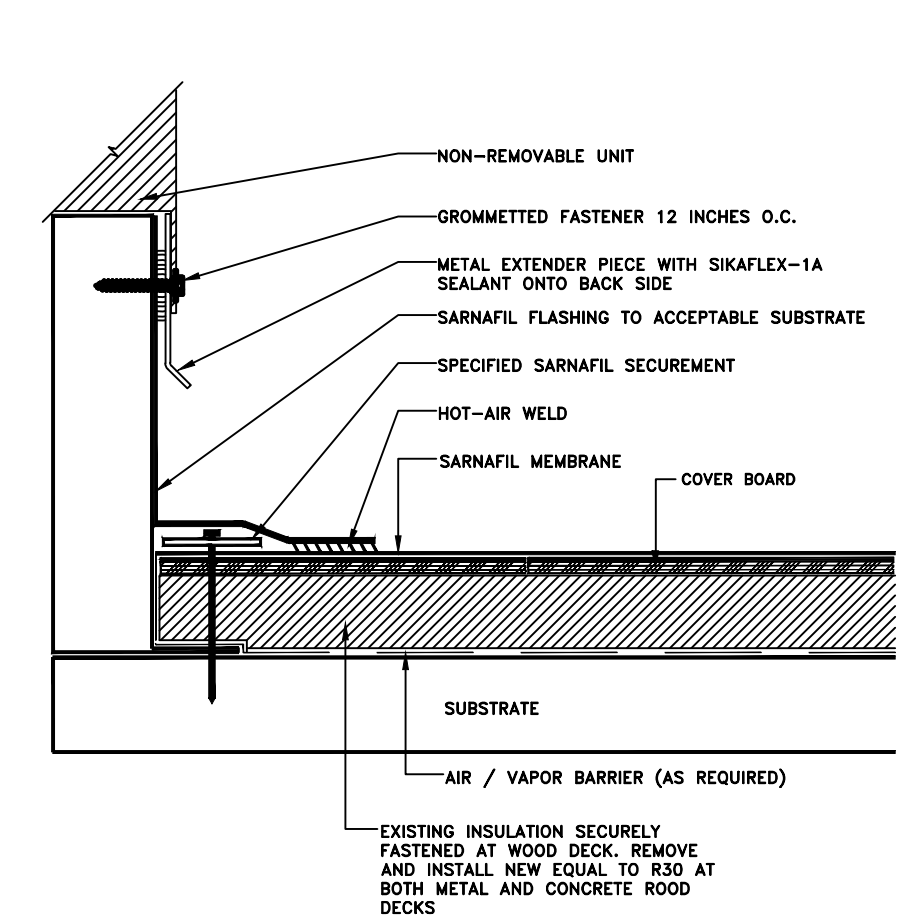
6 EQUIPMENT PAD
SCALE: NTS



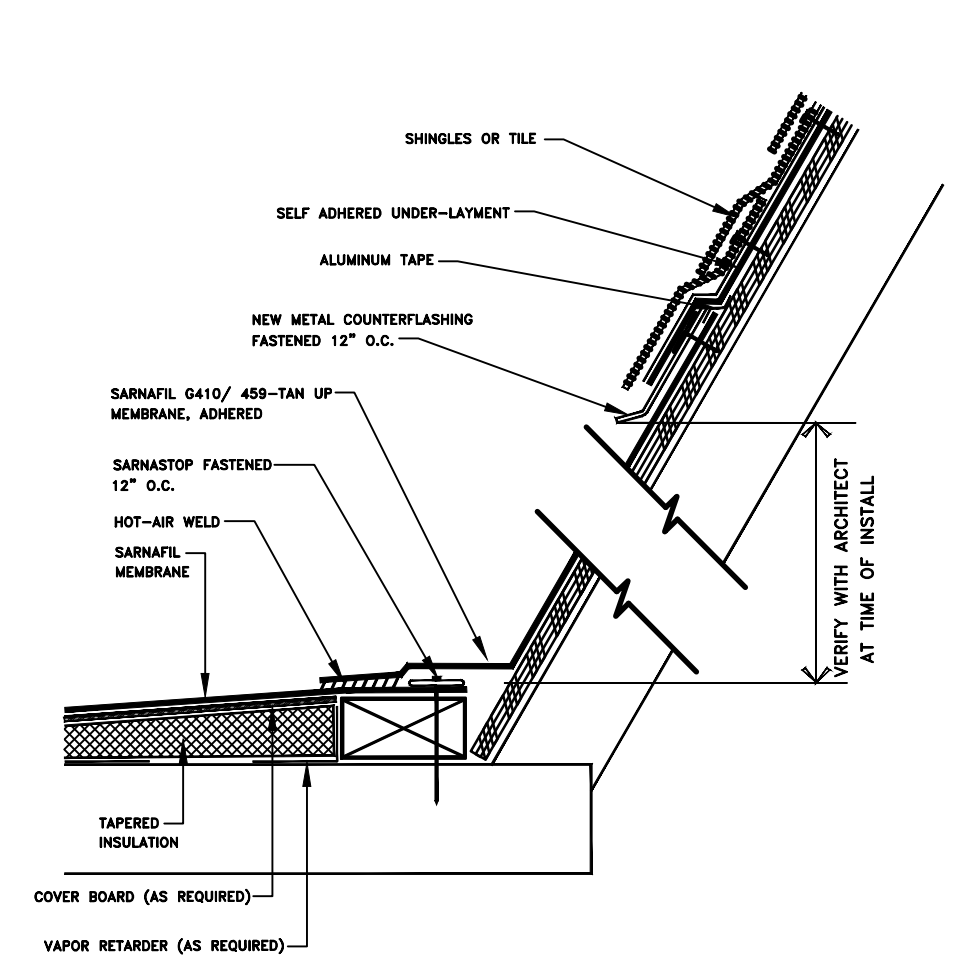
7 ADHERED HIGH WALL FLASHING
SCALE: NTS



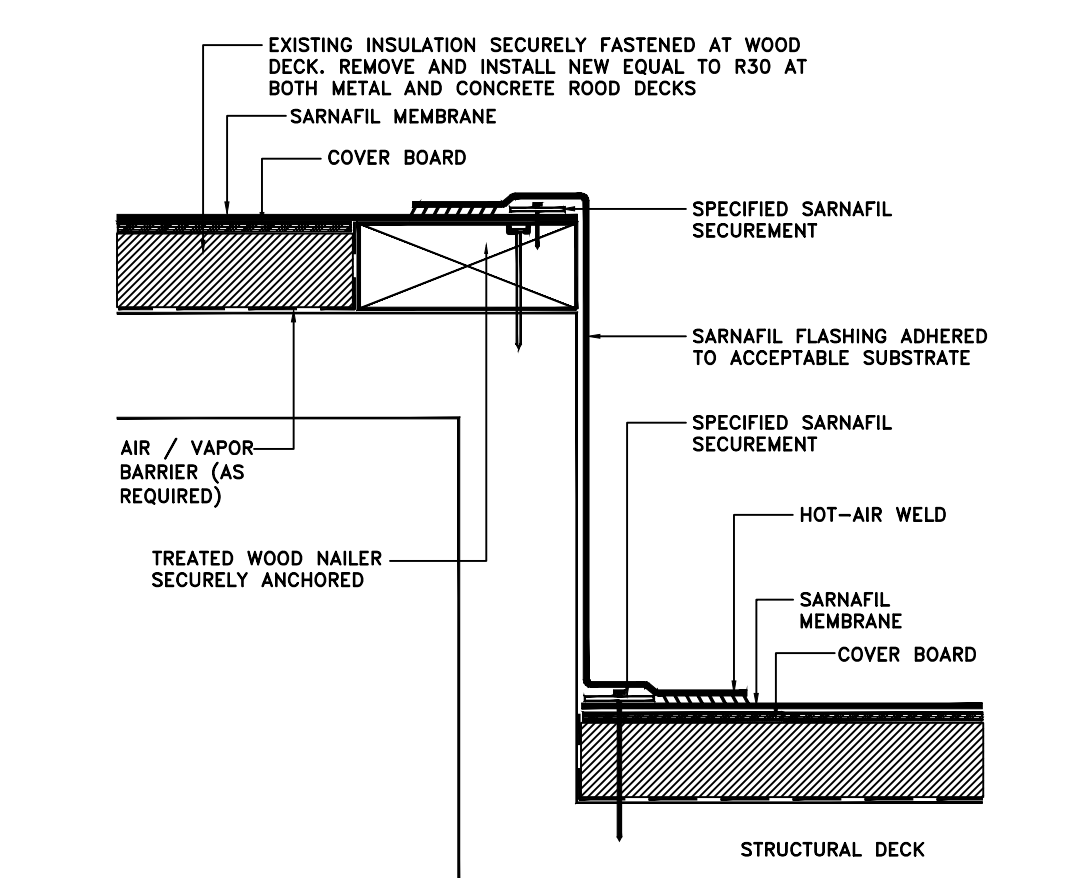
8 METAL FLASHING
SCALE: NTS



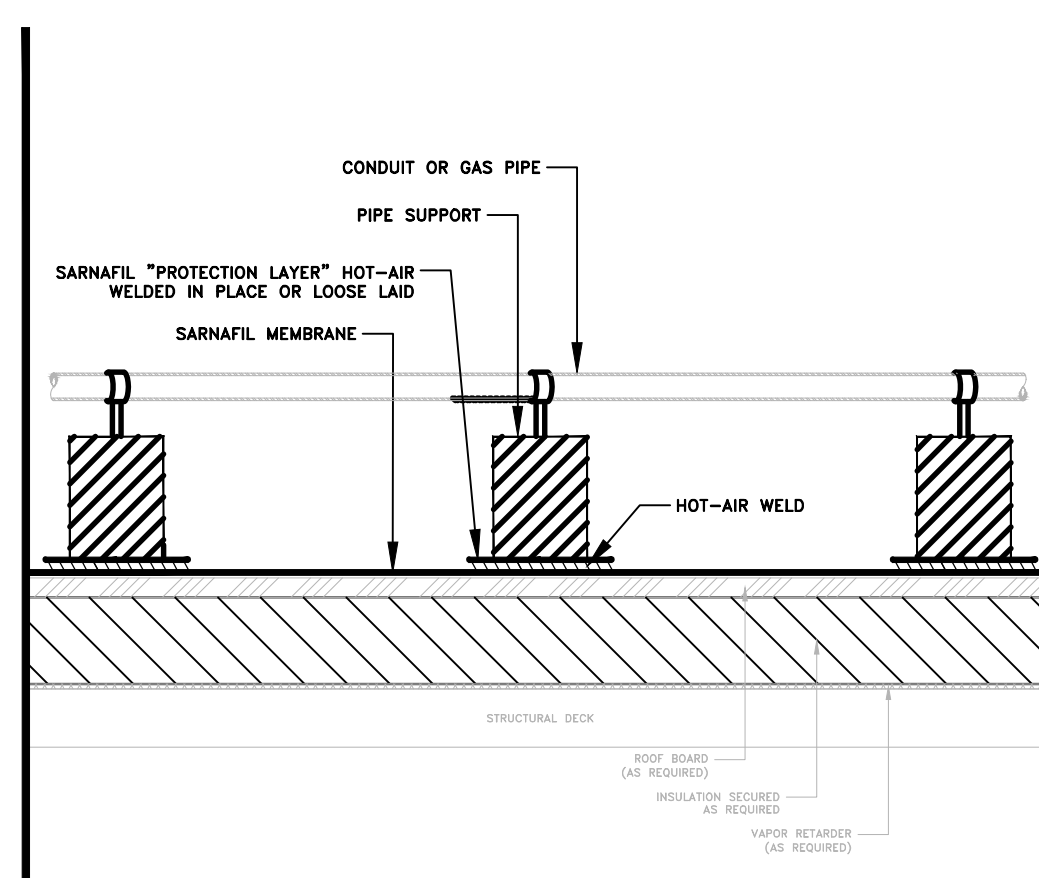
9 NON REMOVABLE CURB FLASHING
SCALE: NTS



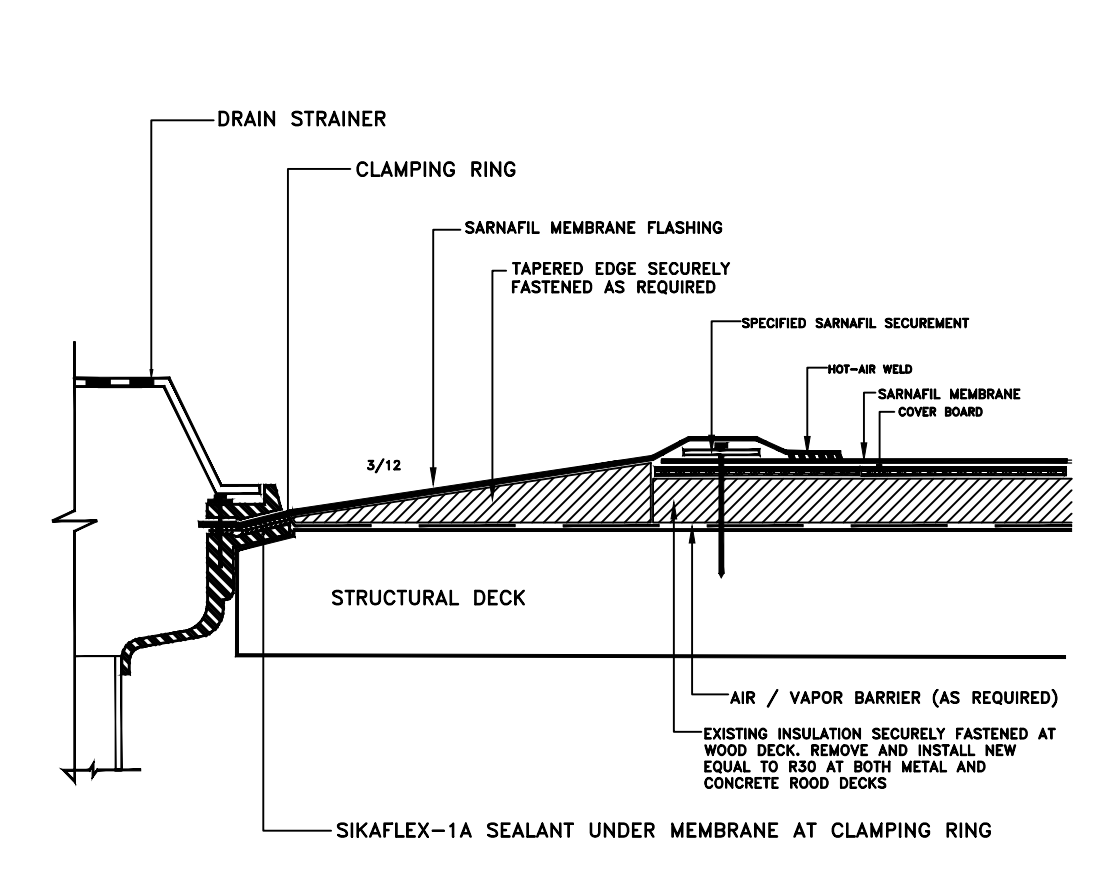
9 TIE-IN AT ASPHALT SHINGLES
SCALE: NTS



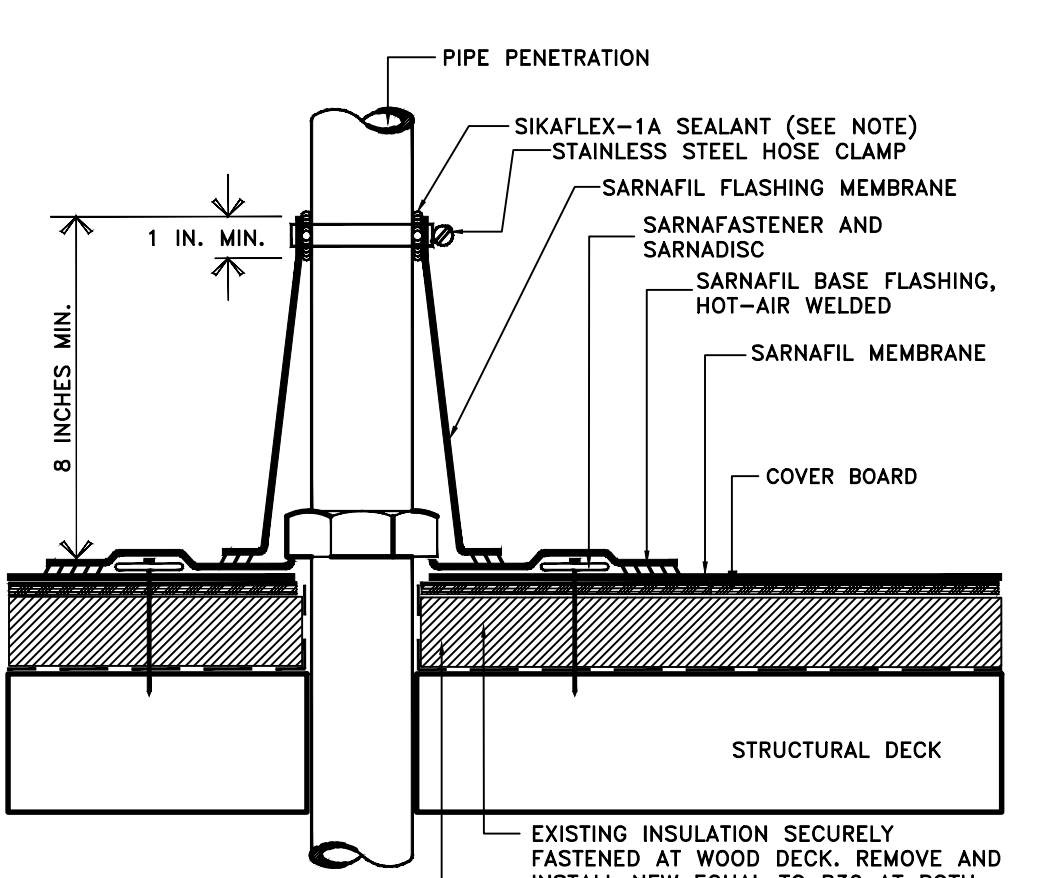
11 WALL TRANSITION
SCALE: NTS



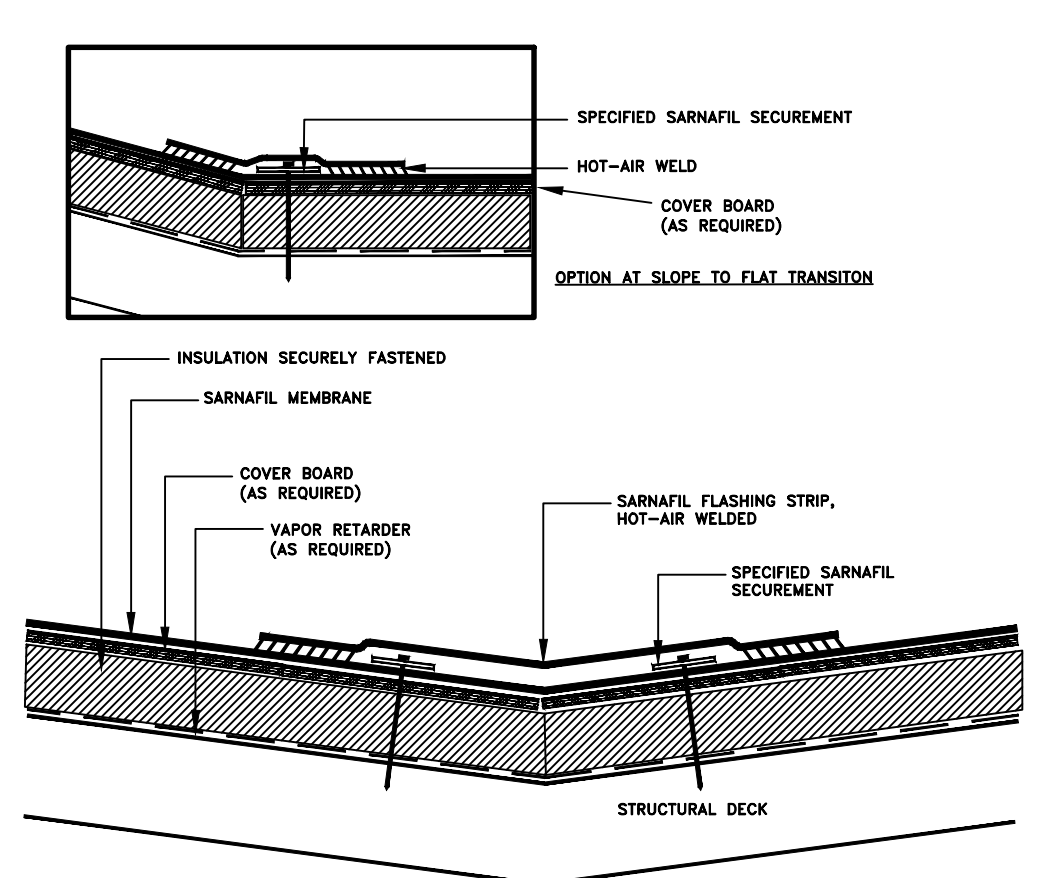
12 MECHANICAL PIPE SUPPORT
SCALE: NTS



13 CLAMPING RING DRAIN
SCALE: NTS



14 CONE FLASHING AT PENERTRATION
SCALE: NTS



15 SLOPE TRANSITION
SCALE: NTS

NOT ALL DETAILS MY BE APPLICABLE, OR INCLUSIVE OF ALL CONDITIONS. INSTALLER TO TO ADHERE TO THE MANUFACTURE RECOMMENDED INSTALLATION DETAILS, UNLESS DIRECTED BY THE ARCHITECT

JAMES H. LYSTRUP ARCHITECT
2453 Malaga Ave
Santa Clara, UT 84765
Phone (208) 406-3153

LICENSED ARCHITECT AR 1424
James H. Lystrup
STATE OF IDAHO

BLACKFOOT 1, 7, 13
BLACKFOOT IDAHO STAKE
ROOF & HVAC REPLACEMENT
1650 HIGHLAND
BLACKFOOT IDAHO 83221

Project for:
THE CHURCH OF
JESUS CHRIST
OF LATTER-DAY SAINTS

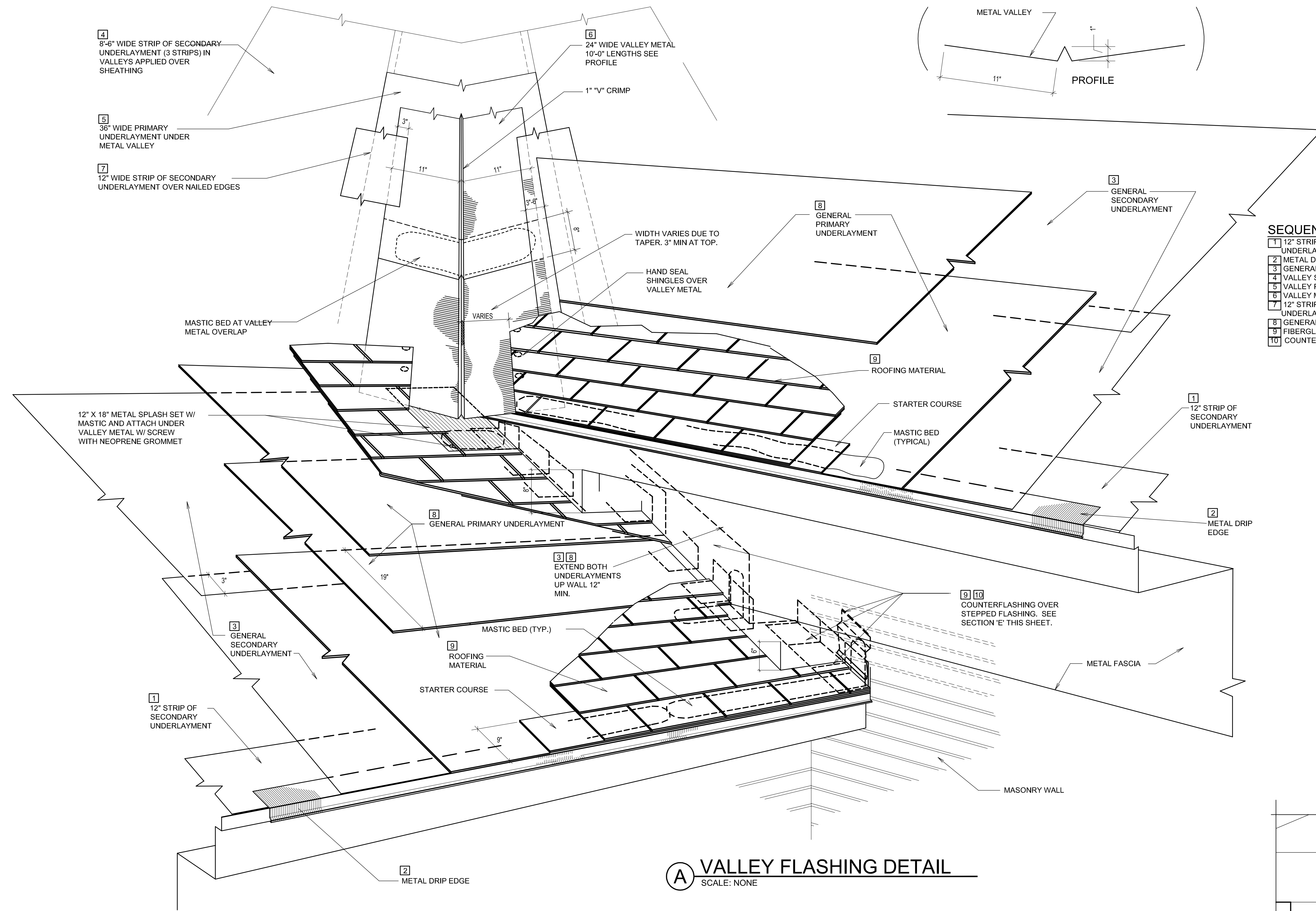
Property Number:	513-2592
Plan Series:	
Date:	2025.04.09
Sheet Title:	ROOF DETAILS

Date: 2025.04.09

Sheet Title: ROOF DETAILS

Scale: NTS

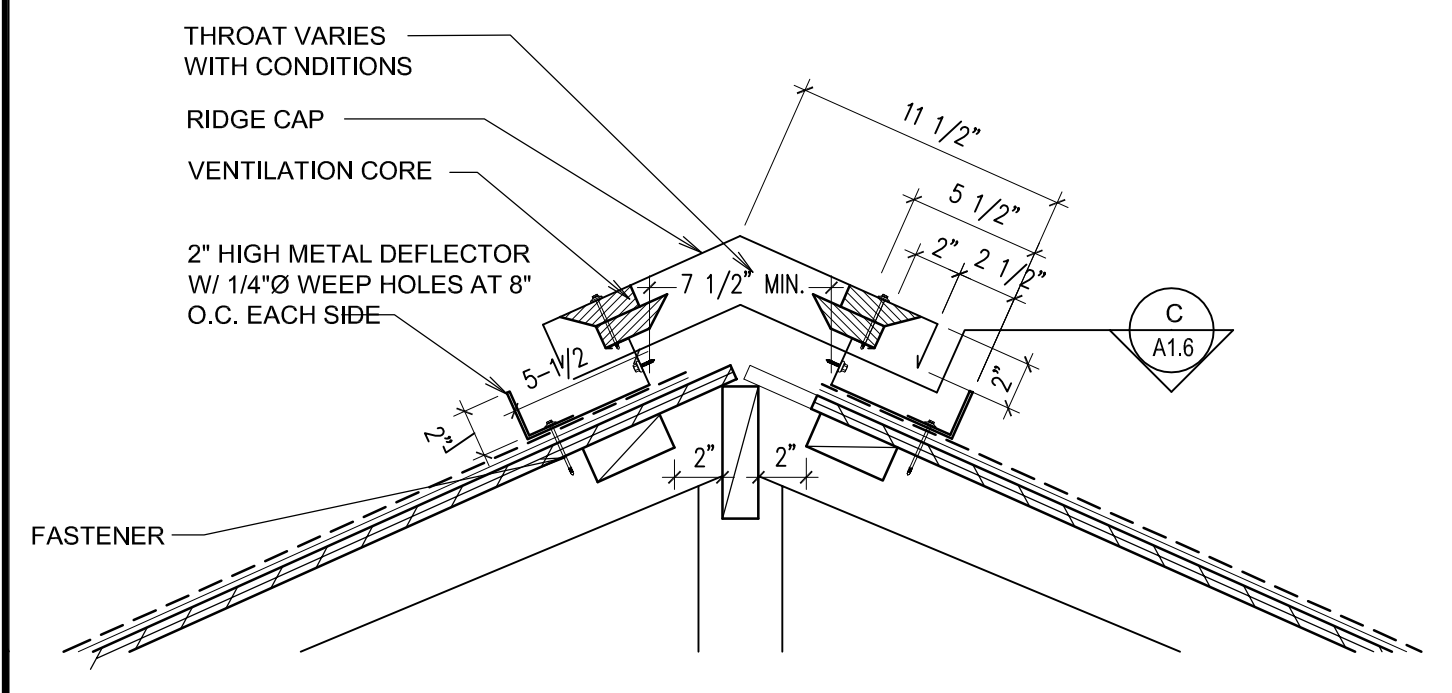
Sheet: A2



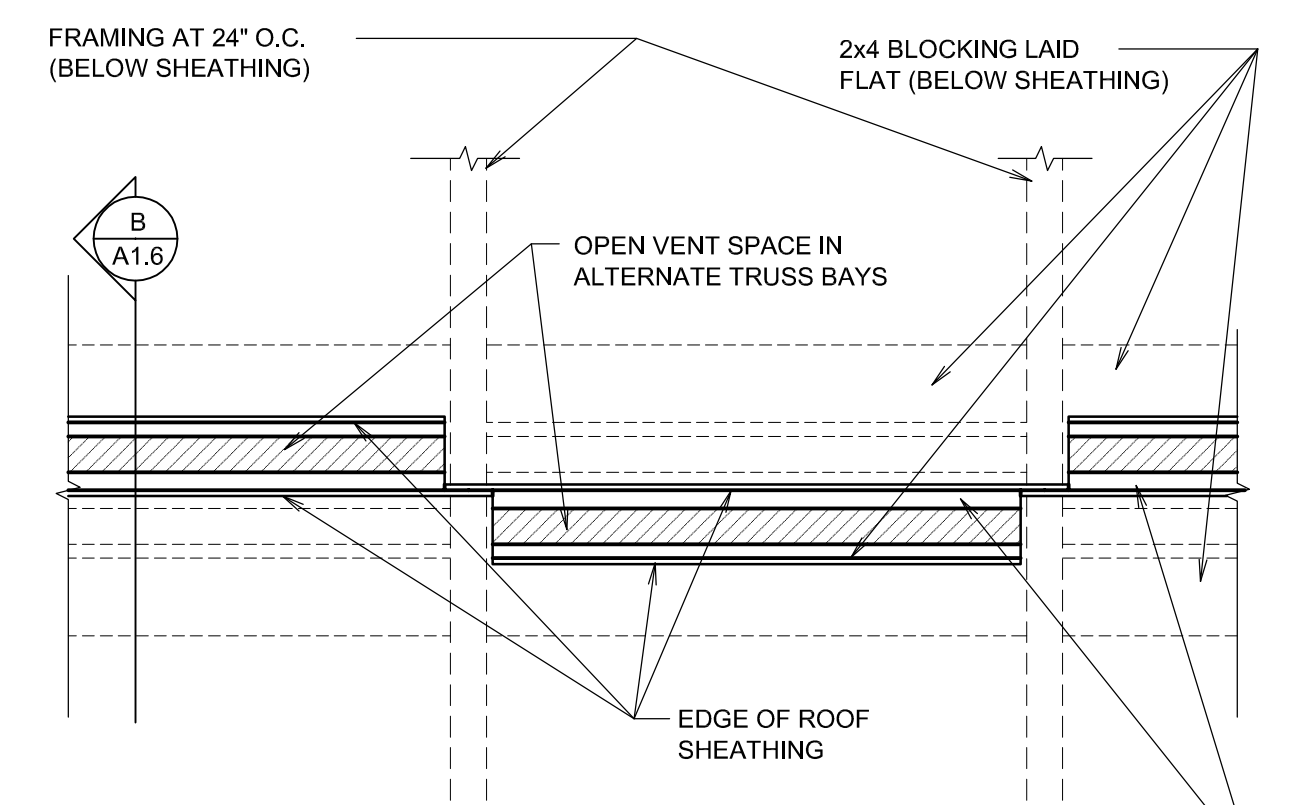
SEQUENCE OF ROOFING MATERIALS:

- 1 12" STRIP OF SECONDARY UNDERLAYMENT AT EAVE
- 2 METAL DRIP EDGE
- 3 GENERAL SECONDARY UNDERLAYMENT
- 4 VALLEY SECONDARY UNDERLAYMENT
- 5 VALLEY PRIMARY UNDERLAYMENT
- 6 VALLEY METAL
- 7 12" STRIP OF SECONDARY UNDERLAYMENT OVER NAILED EDGES
- 8 GENERAL PRIMARY UNDERLAYMENT
- 9 FIBERGLASS SHINGLES, STEP FLASHINGS
- 10 COUNTER FLASHINGS

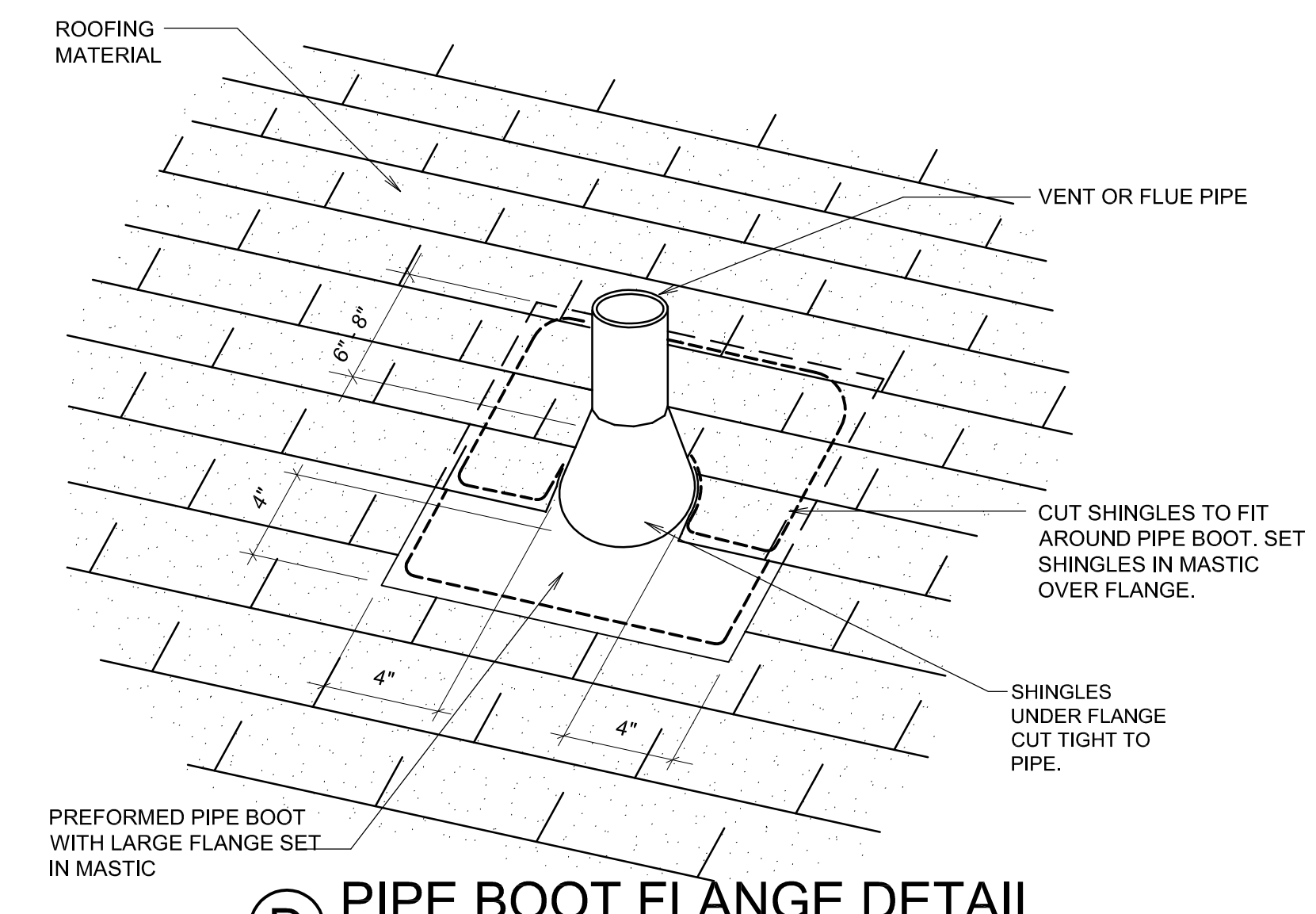
A VALLEY FLASHING DETAIL
SCALE: NONE



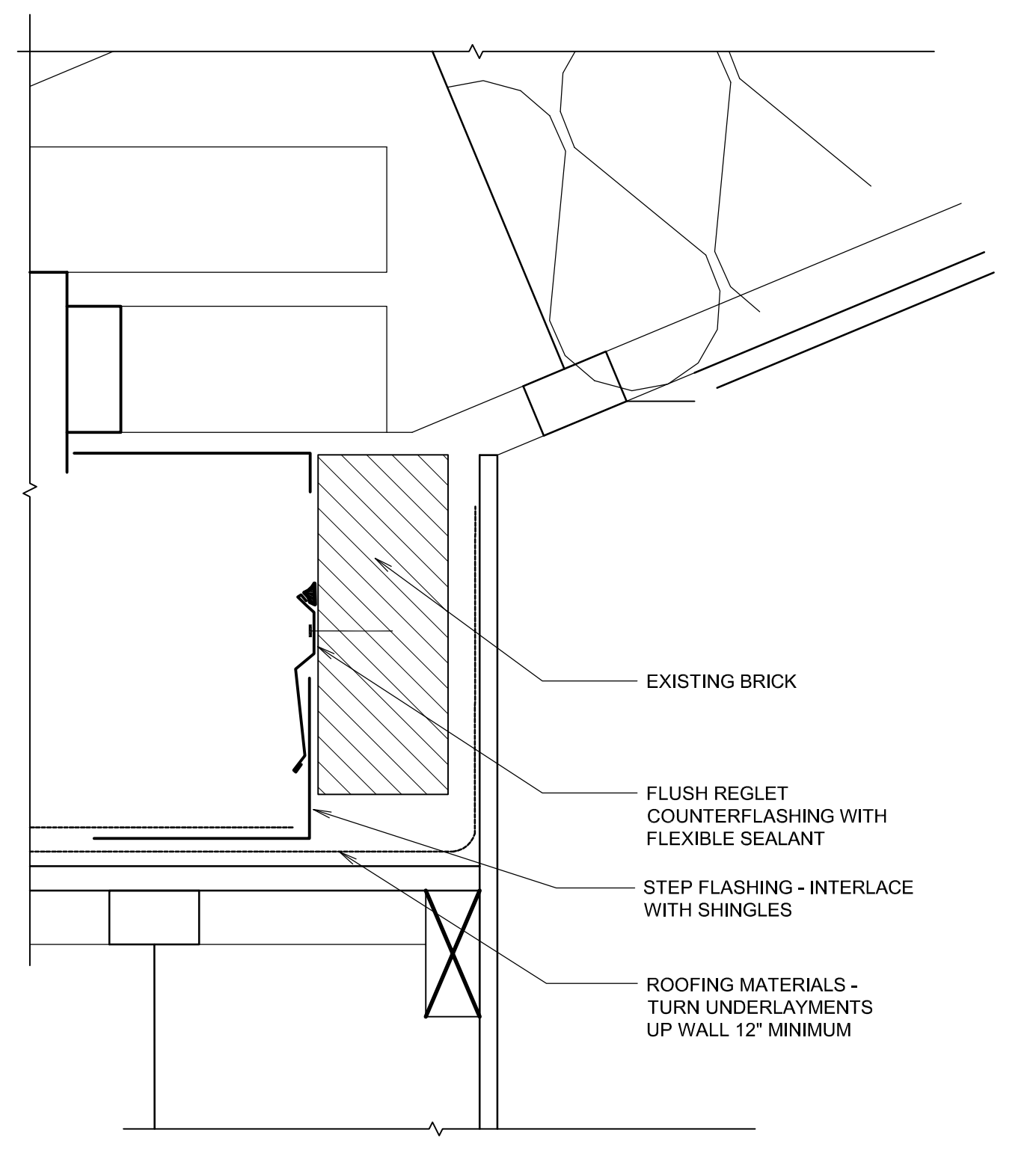
B DETAIL
1 1/2" = 1'-0"



C SECTION
1 1/2" = 1'-0"



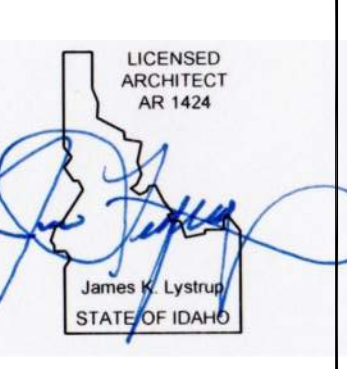
D PIPE BOOT FLANGE DETAIL
SCALE: NONE



E SECTION
3" = 1'-0"

2453 Malaga Ave
Santa Clara, UT 84765
Phone (208) 406-3153

JAMES H. LYSTRUP ARCHITECT



Project for:
BLACKFOOT 1, 7, 13
BLACKFOOT IDAHO STAKE
ROOF & HVAC REPLACEMENT

1650 HIGHLAND
BLACKFOOT IDAHO 83221

Property Number:
513-2592

Plan Series:
Date: 2025, 04, 09

Sheet Title:
DETAILS

Sheet:
A3



Keep parking lot clean and free of debris.



Secure loose fascia metal, install new drip edge.



Remove existing epdm membrane to roof deck. Examine deck in presence of architect. Install new 1/2" densdeck and 80ml membrane.



Raise mechanical equipment, install new roofing membrane after removal of existing. Install new wall flashings. Re-secure conduiting.



Remove edge metal, membrane, flashings and shingles prior to installation of new materials.



Remove insulation on refrigerant lines. Install new. Coat with armaflex paint, install metal covers to protect lines from uv damage.



Protect lawns and planting areas from damage during demolition and installation of new roofing system.



Remove existing epdm membrane, flashings, shingles and underlayment down to wood deck.



Remove existing membrane, shingles, flashings and underlayment. Install 1/2" densdeck over flat roof area and low slope area. Install new 80ml roofing membrane. Color of membrane to match new composition shingles.



Remove membrane and wall flashings. Install new 1/2" densdeck, 80ml membrane and new wall flashings with termination bar continuous.



Remove insulation on refrigerant lines. Install new. Coat with armaflex paint, install metal covers to protect lines from uv damage.



Protect lawns and planting beds.



Remove existing shingles, underlayment, and valley metal.



Remove existing membrane to deck. Install new underlayment and 80ml membrane. Install new wall flashings.



Raise existing equipment of curb, remove existing membrane. Install new densdeck and membrane. Set pads of sacrificial membrane as per mfgs recommendations.



Remove flashings at steeple. Install new to match existing fascia metal. Remove existing shingles and underlayment to roof deck. Install new secondary underlayment over entire roof deck. Install new composition shingles.



Remove existing wall flashings, install new after installation of new shingles.



Flash all existing roof penetrations.



Remove existing roofing materials, install new.



Flash all existing roof penetrations.



2453 Malaga Ave
Santa Clara, UT 84765
Phone (208) 406-3153

JAMES H. LYSTROP
ARCHITECT



BLACKFOOT 1, 7, 13
BLACKFOOT IDAHO STAKE
ROOF & HVAC REPLACEMENT
1650 HIGHLAND
BLACKFOOT IDAHO 83221

Project for:
THE CHURCH OF
JESUS CHRIST
OF LATTER-DAY SAINTS

Property Number:
513-2592
Plan Series:
Date:
2025, 04, 09

Sheet Title:
EXISTING
PHOTOS

Sheet:
A4



Remove existing flashings and counterflashings. Install new after installation of new roofing. Match fascia color.



Install new roofing membrane at existing curbs after removal of existing membrane.



Remove existing shingles, underlayment, valley metals, install new secondary underlayment over entire roof deck. Install new valley metal, composition shingles, new drip edge, etc.



Remove existing flashings and counterflashings. Install new after installation of new roofing. Match fascia color.



Install new roofing membrane at existing curbs after removal of existing membrane.



Remove existing shingles, underlayment, valley metals, install new secondary underlayment over entire roof deck. Install new valley metal, composition shingles, new drip edge, etc.



Remove existing flashings and counterflashings. Install new after installation of new roofing. Match fascia color.



Install new ridge vent continuous.



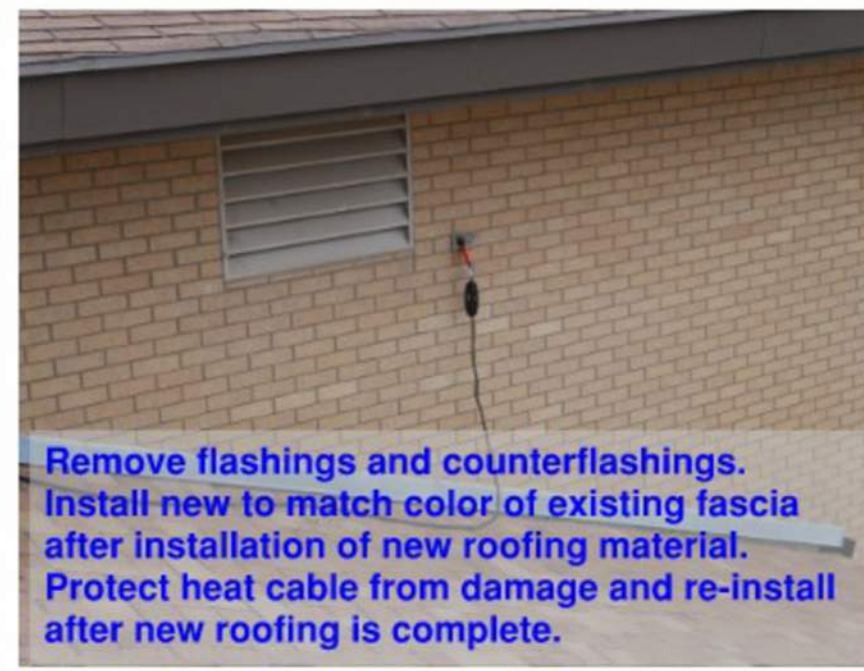
Remove existing flashings and counterflashings. Install new after installation of new roofing. Match fascia color.



Install new ridge vent continuous.



Install new flashings at high wall transition.



Remove flashings and counterflashings. Install new to match color of existing fascia after installation of new roofing material. Protect heat cable from damage and re-install after new roofing is complete.



Install new flashings at high wall transition.



Remove flashings and counterflashings. Install new to match color of existing fascia after installation of new roofing material. Protect heat cable from damage and re-install after new roofing is complete.



Install pitch pocket where conduit penetrates roof. Remove flashings, install new after installation of new membrane.



Install 1' x 2' piece of sacrificial membrane where condensate drips onto roof.



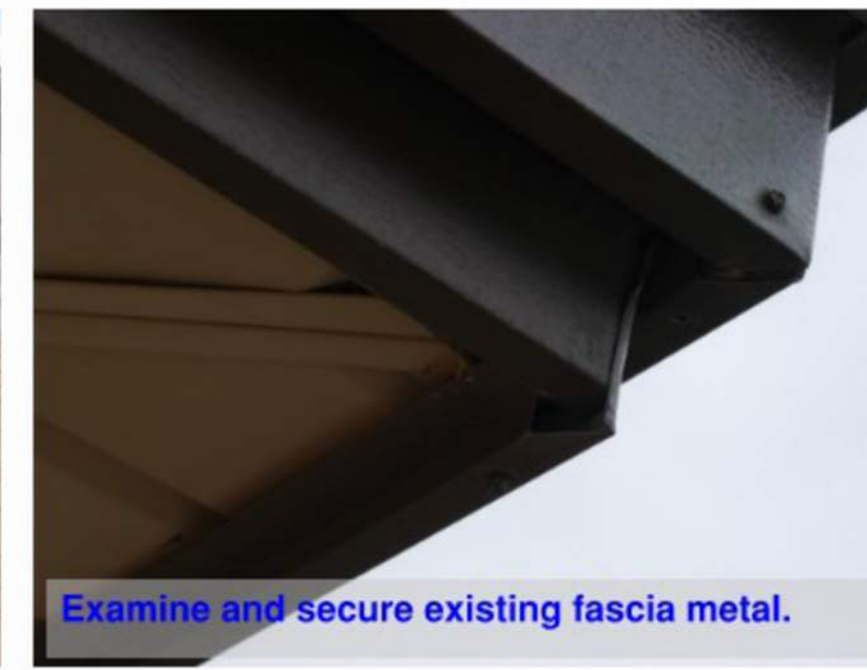
Replace insulation with new. Coat with armaflex paint and cover with new continuous metal.



New membrane at low slope area.



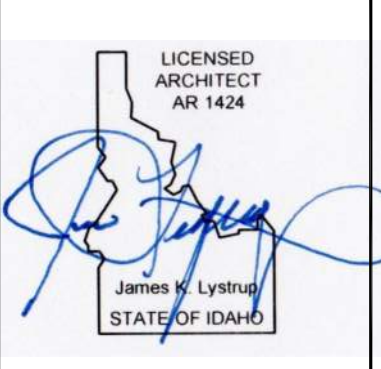
Install new ridge vent.



Examine and secure existing fascia metal.

2453 Malaga Ave
Santa Clara, UT 84765
Phone (208) 406-3153

JAMES H. LYSTROP
ARCHITECT



BLACKFOOT 1, 7, 13
BLACKFOOT IDAHO STAKE
ROOF & HVAC REPLACEMENT

1650 HIGHLAND
BLACKFOOT IDAHO 83221

Project for:
THE CHURCH OF
JESUS CHRIST
OF LATTER-DAY SAINTS

Property Number:
513-2592

Plan Series:

Date:
2025, 04, 09

Sheet Title:
**EXISTING
PHOTOS**

Sheet:
A5



JAMES K. LYSTRUP
 ARCHITECT
 2453 Malaga Ave
 Santa Clara, UT 84765
 Phone (208) 406-3153

LICENSED
 ARCHITECT
 AR 1424
James K. Lystrup
 James K. Lystrup
 STATE OF IDAHO

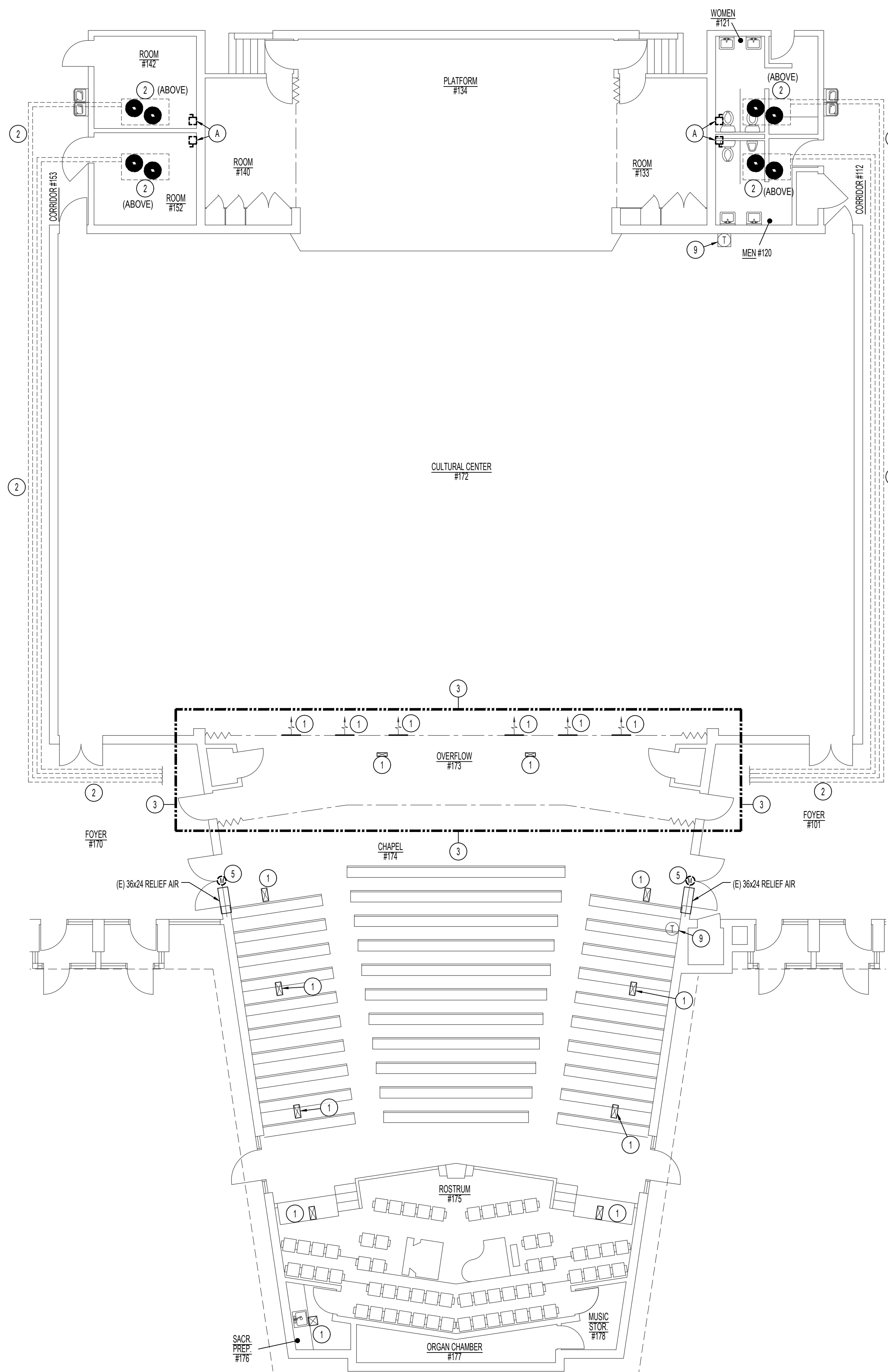
BLACKFOOT 1, 7, 13
 BLACKFOOT IDAHO STAKE
 ROOF & HVAC REPLACEMENT
 1650 HIGHLAND
 BLACKFOOT IDAHO 83221

Project for:
 THE CHURCH OF
 JESUS CHRIST
 OF LATTER-DAY SAINTS

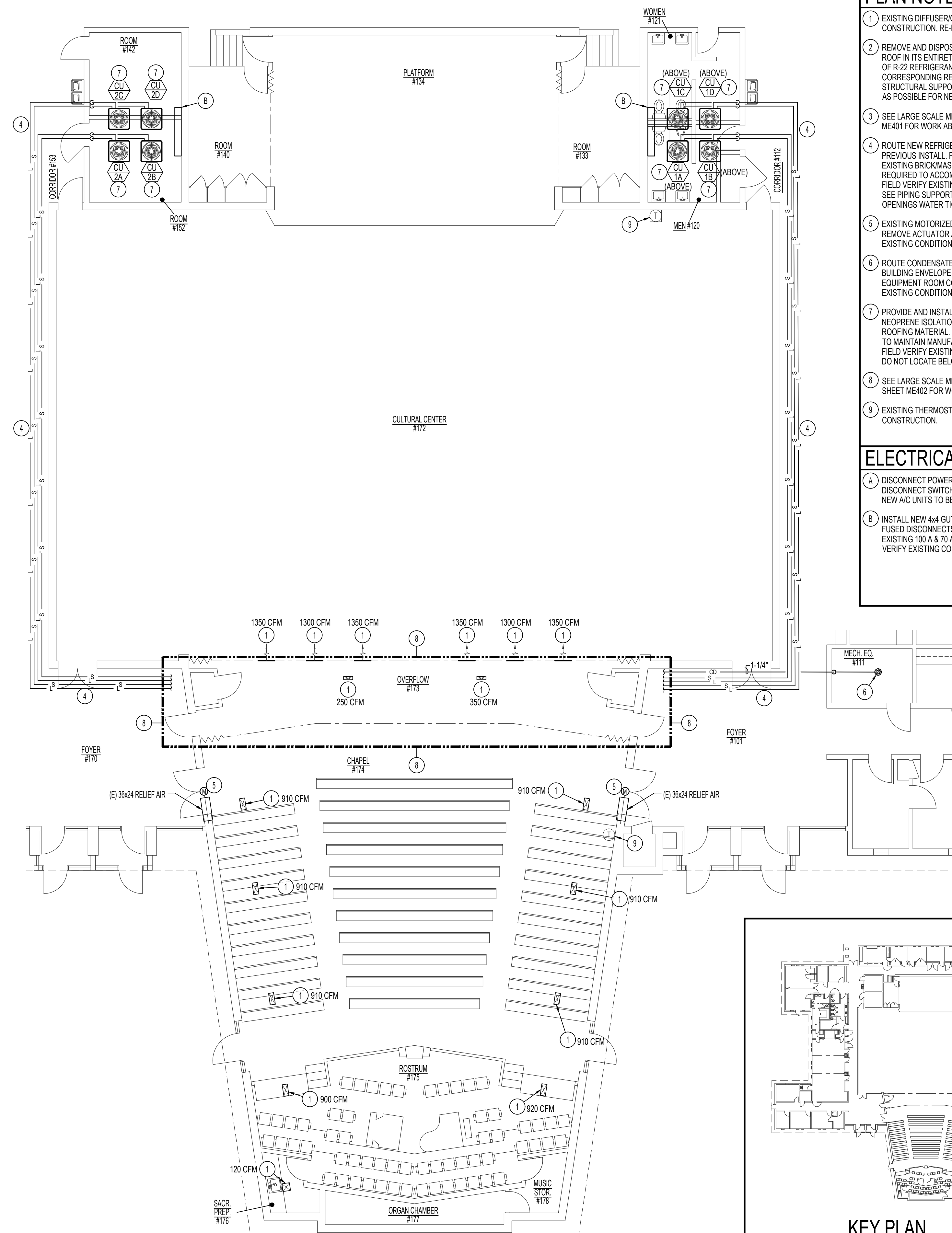
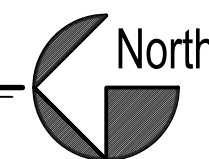
Property Number:
 513-2592
 Plan Series:
 Date:
 2025, 04, 09

Sheet Title:
 EXISTING
 PHOTOS

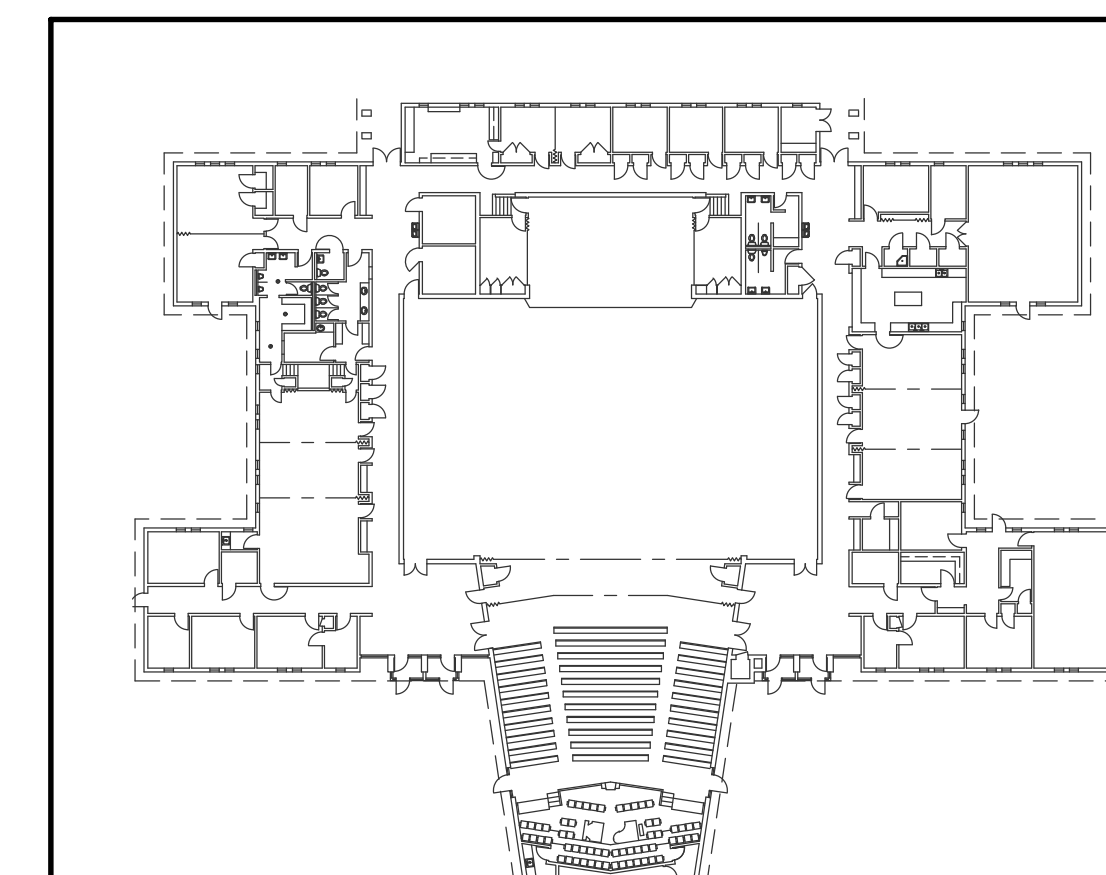
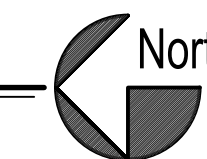
Sheet:
 A6



MECHANICAL DEMO FLOOR PLAN
SCALE: 1/8" = 1'-0"



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



KEY PLAN
NO SCALE

- PLAN NOTES:**
- EXISTING DIFFUSER/GRILLE TO REMAIN. PROTECT DURING CONSTRUCTION. RE-BALANCE TO CFM AS INDICATED ON PLANS.
 - REMOVE AND DISPOSE OF EXISTING CONDENSING UNIT ON ROOF IN ITS ENTIRETY. PUMP DOWN AND PROPERLY DISPOSE OF R-22 REFRIGERANT. REMOVE AND DISPOSE OF ALL CORRESPONDING REFRIGERANT PIPING. MAINTAIN EXISTING STRUCTURAL SUPPORT AND REFRIGERANT SUPPORTS AS MUCH AS POSSIBLE FOR NEW INSTALL.
 - SEE LARGE SCALE MECHANICAL DEMOLITION PLANS ON SHEET ME401 FOR WORK ABOVE.
 - ROUTE NEW REFRIGERANT LINE SETS IN SAME LOCATION AS PREVIOUS INSTALL. PROVIDE NEW SUPPORTS AND CORE DRILL EXISTING BRICK/MASONRY WALLS INTO ATTIC SPACE AS REQUIRED TO ACCOMMODATE THE ADDITIONAL LINE SETS. FIELD VERIFY EXISTING CONDITIONS PRIOR TO CONSTRUCTION. SEE PIPING SUPPORT DETAILS ON SHEET ME501. SEAL ALL OPENINGS WATER TIGHT.
 - EXISTING MOTORIZED DAMPER FOR RELIEF AIR TO REMAIN. REMOVE ACTUATOR AND REPLACE WITH NEW. FIELD VERIFY EXISTING CONDITIONS.
 - ROUTE CONDENSATE DRAIN LINE FROM NEW UNITS WITHIN BUILDING ENVELOPE TO FLOOR DRAIN OR SINK IN MECHANICAL EQUIPMENT ROOM COMPLETE WITH 1" AIR GAP. FIELD VERIFY EXISTING CONDITIONS.
 - PROVIDE AND INSTALL NEW CONDENSING UNIT ON ROOF ON NEOPRENE ISOLATION PADS AND 4x4 RAILS WRAPPED IN ROOFING MATERIAL. MODIFY INSTALL LOCATIONS AS REQUIRED TO MAINTAIN MANUFACTURER RECOMMENDED CLEARANCES. FIELD VERIFY EXISTING CONDITIONS PRIOR TO CONSTRUCTION. DO NOT LOCATE BELOW ROOF OVERHANG.
 - SEE LARGE SCALE MECHANICAL MEZZANINE ROOM PLANS ON SHEET ME402 FOR WORK ABOVE.
 - EXISTING THERMOSTAT/SENSOR TO REMAIN. PROTECT DURING CONSTRUCTION.

- ELECTRICAL NOTES:**
- DISCONNECT POWER FROM EXISTING A/C UNITS AND REMOVE DISCONNECT SWITCH. MAINTAIN CONDUIT AND CIRCUIT FOR NEW A/C UNITS TO BE INSTALLED.
 - INSTALL NEW 4x4 GUTTER AND (4) 30A 3 POLE HEAVY DUTY FUSED DISCONNECTS AND CONNECT TO NEW A/C UNITS. RE-USE EXISTING 100 A & 70 A 3P CIRCUITS FOR NEW LOADS. FIELD VERIFY EXISTING CONDITIONS. SEE DETAIL ON SHEET ME501.

JAMES K. LYSTRUP ARCHITECT
1133 Call Creek Ste C
Pocatello, Idaho 89201
Phone (208) 406-3153

**BLACKFOOT IDAHO STAKE
ROOF & HVAC REPLACEMENT**
1650 HIGHLAND
BLACKFOOT IDAHO 83221

Project for:
**THE CHURCH OF
JESUS CHRIST
OF LATTER-DAY SAINTS**

Property Number:	513-2592
Plan Series:	
Date:	2025.04.07
Sheet Title:	

Property Number:	513-2592
Plan Series:	
Date:	2025.04.07
Sheet Title:	

MECHANICAL & ELECTRICAL FLOOR PLANS

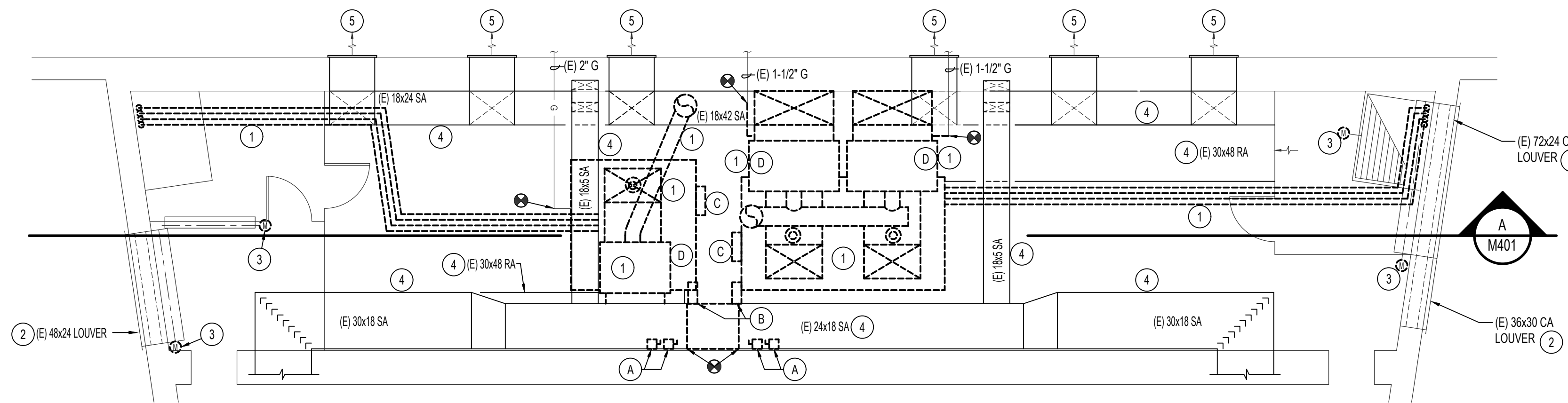
Sheet:
ME101



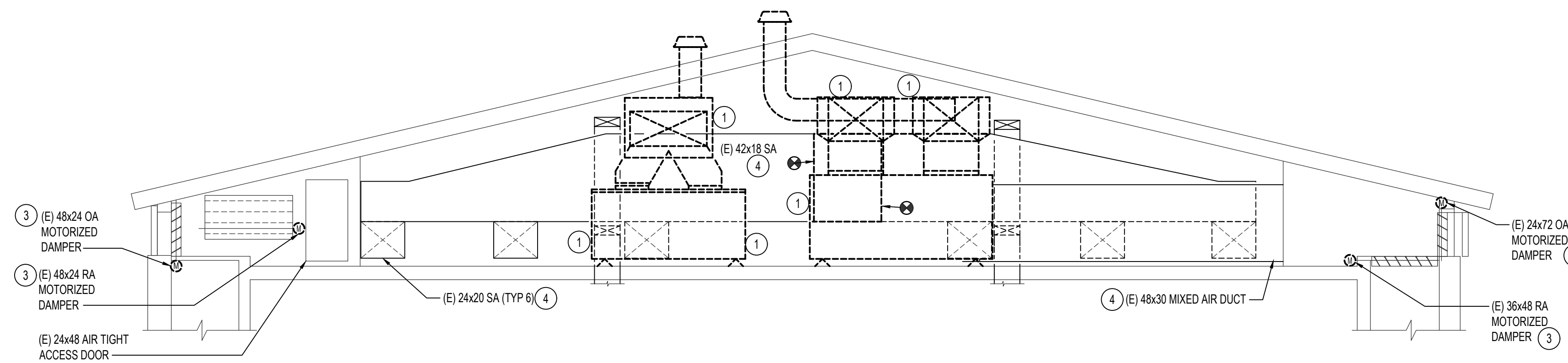
Engineered Systems Associates
1355 EAST CENTER
POCATELLO, IDAHO 83201
PHONE: (208) 233-0501
FAX: (208) 233-0529
EMAIL: esa@engsystems.com
ESA JOB NUMBER: 23088

S:\Jobs\232088_LDS Highland BF 513-2592\CAD\23088 M101.dwg Apr 08, 2025 1:08pm

S:\Jobs\230888.LDS Highland BF 513-2592\CAD\23088 M401.dwg Apr 08, 2025 - 1:09pm



MECHANICAL ROOM 201 DEMO PLAN
SCALE: 1/4" = 1'-0"



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

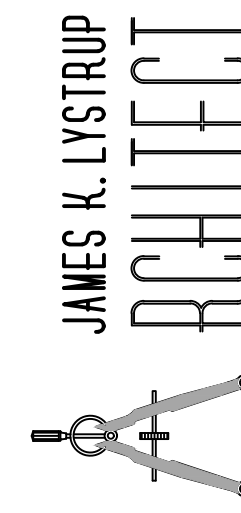
PLAN NOTES:

- 1 REMOVE AND DISPOSE OF EXISTING AIR HANDLER AND DUCT FURNACE. REMOVE AND DISPOSE OF CORRESPONDING EXISTING REFRIGERANT LINES, MOUNTING HARDWARE, BRANCH GAS LINES, FLUES, AND CONDENSATE DRAINS. PUMP DOWN AND PROPERLY DISPOSE OF R-22 REFRIGERANT. DISASSEMBLE EQUIPMENT FOR REMOVAL AS REQUIRED. FIELD VERIFY EXISTING CONDITIONS.
- 2 EXISTING LOUVER TO REMAIN. BLANK OFF PORTION OF UNUSED DUCT. SEE SHEET ME402. FIELD VERIFY EXISTING CONDITIONS.
- 3 EXISTING MOTORIZED DAMPER TO REMAIN. REMOVE ACTUATOR FOR DAMPER AND LOCK DAMPER TO OPEN POSITION.
- 4 EXISTING DUCTWORK TO REMAIN. FIELD VERIFY EXISTING CONDITIONS AND DIMENSIONS.
- 5 EXISTING SUPPLY AIR GRILLE TO REMAIN. SEE SHEET ME101.

ELECTRICAL NOTES:

- A REMOVE CONDUIT AND WIRE FEEDING AIR HANDLERS BEING REMOVED. REMOVE EXISTING DISCONNECTS AND STARTERS. MAINTAIN EXISTING CIRCUITS FOR NEW FURNACE PANELS.
- B REMOVE EXISTING VFD'S AND RETURN TO OWNER FOR SALVAGE.
- C REMOVE EXISTING MOTOR FROM AIR HANDLER BEING REMOVED AND RETURN TO OWNER FOR SALVAGE.
- D REMOVE 120V CIRCUIT FEEDING EXISTING DUCT FURNACES BEING REMOVED. REMOVE CONDUIT AND WIRE BACK TO SOURCE AND LABEL BREAKER SPARE.

1133 Call Creek Ste C
Pocatello, Idaho 83201
Phone (208) 406-3153



BLACKFOOT 1, 7, 13
BLACKFOOT IDAHO STAKE
ROOF & HVAC REPLACEMENT
1650 HIGHLAND
BLACKFOOT IDAHO 83221

Project for:
**THE CHURCH OF
JESUS CHRIST
OF LATTER-DAY SAINTS**

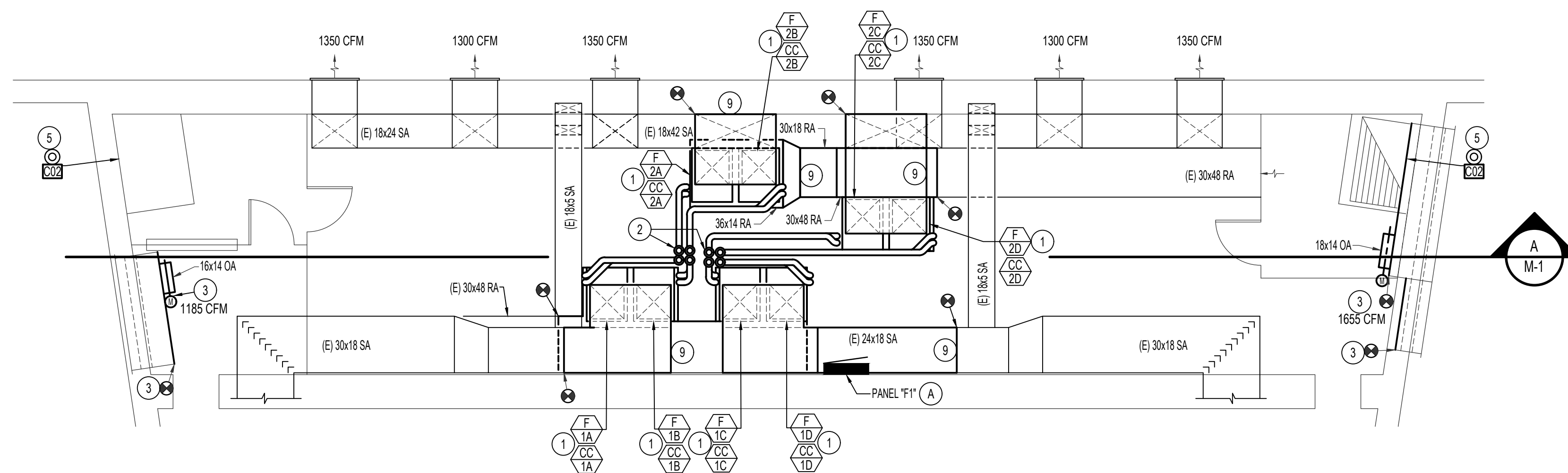
Property Number:
513-2592
Plan Series:
Date:
2025, 04, 07

Sheet Title:
**MECHANICAL &
ELECTRICAL
DEMOLITION
MEZZANINE PLAN**

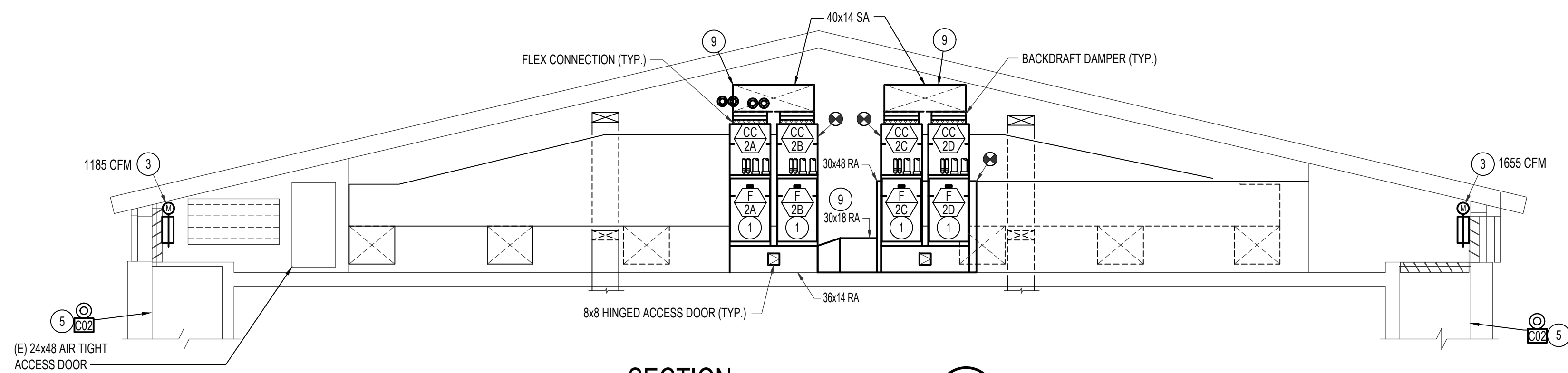
Sheet:
ME401



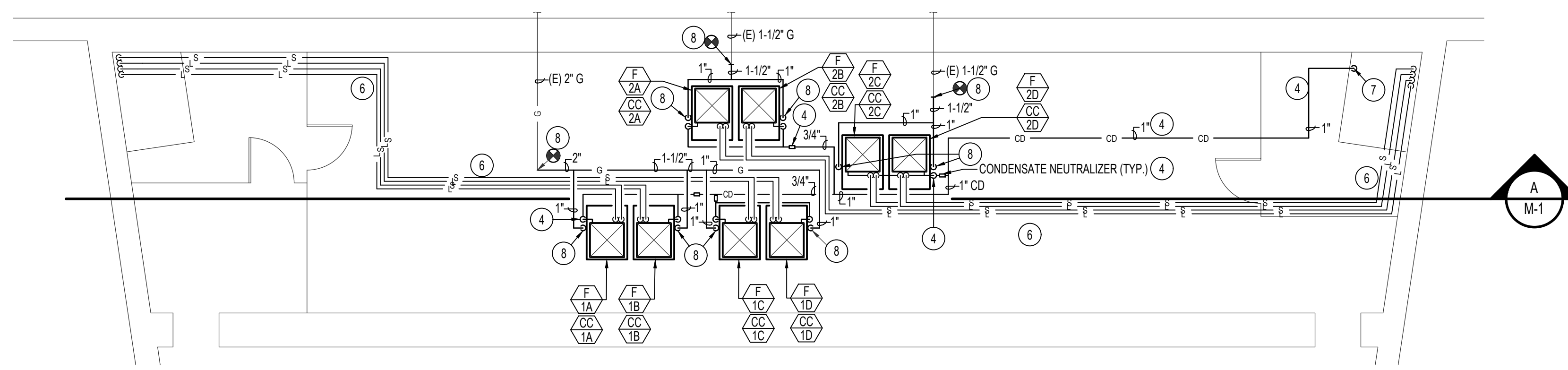
**Engineered
Systems
Associates**
1355 EAST CENTER
POCATELLO, IDAHO 83201
PHONE: (208) 233-0501
FAX: (208) 233-0529
EMAIL: esa@engsystems.com
ESA JOB NUMBER: 23088



MECHANICAL ROOM 201 PLAN
SCALE: 1/4" = 1'-0"



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



MECHANICAL ROOM 201 PIPING PLAN
SCALE: 1/4" = 1'-0"

PLAN NOTES:

- 1 INSTALL FURNACE ON 14" HIGH PLENUM.
- 2 RISE (2) 3" DIAMETER FLUES PER FURNACE UP THRU ROOF TO CONCENTRIC FLUE TERMINATION. SEE CONCENTRIC FLUE TERMINATION DETAIL ON SHEET ME501. KEEP FLUE TERMINATIONS 10 FEET AWAY FROM MECHANICAL AIR INTAKES INTO BUILDING. RE-USE EXISTING FLUE PENETRATIONS IF POSSIBLE.
- 3 BLANK OFF PORTION OF UNUSED DUCTWORK AND INSTALL MOTORIZED DAMPER AND HAND DAMPER ON PORTION OF NEW OUTSIDE AIR DUCT. BALANCE HAND DAMPER TO CFM INDICATED.
- 4 ROUTE CONDENSATE DRAIN LINE TO NEARBY FLOOR DRAIN. SEE SHEET M101 FOR CONTINUATION. PROVIDE AND INSTALL DRAIN WITH (QTY: 1) NEUTRALIZER KIT PER 2 FURNACES. ROUTE NEW LINE AWAY FROM FOOT TRAFFIC AS MUCH AS POSSIBLE.
- 5 PROVIDE AND INSTALL NEW DUCT SMOKE DETECTOR AND CO2 SENSOR IN RETURN AIR PLENUM PRIOR TO FILTER AND OUTSIDE AIR. REFER TO SPECIFICATIONS FOR MORE INFORMATION.
- 6 INSTALL REFRIGERANT LINES AS HIGH AS POSSIBLE. SEE REFRIGERANT SCHEDULES FOR LINE SIZES. SEE DETAILS ON SHEET ME501.
- 7 SEE SHEET ME101 FOR CONTINUATION.
- 8 CONNECT GAS LINE TO EXISTING AND ROUTE AS HIGH AS POSSIBLE. DROP 1" GAS LINE FOR EACH FURNACE WITHIN 6" OF FURNACE COMPLETE WITH SHUT-OFF VALVE, DIRT LEG AND FLEXIBLE CONNECTION. SEE DETAILS ON SHEET ME501. FIELD VERIFY EXISTING CONDITIONS.
- 9 MODIFY EXISTING DUCTWORK AS NEEDED FOR NEW FURNACE INSTALL. FIELD VERIFY EXISTING CONDITIONS.

ELECTRICAL NOTES:

- (A) INTERCEPT EXISTING 70A 3P CIRCUIT FROM EXISTING AIR HANDLERS AND INSTALL NEW SUB-PANEL FOR (8) NEW FURNACES. RUN 2-#12-3/4" C W/GND TO EACH FURNACE.

1133 Call Creek Ste C
Pocatello, Idaho 83201
Phone (208) 406-3153

JAMES K. LYSTRUP
ARCHITECT

BLACKFOOT 1, 7, 13
BLACKFOOT IDAHO STAKE
ROOF & HVAC REPLACEMENT

1650 HIGHLAND
BLACKFOOT IDAHO 83221

Project for:
THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

Property Number:
513-2592

Plan Series:

Date:
2025, 04, 07

MECHANICAL & ELECTRICAL MEZZANINE PLAN

Sheet:
ME402

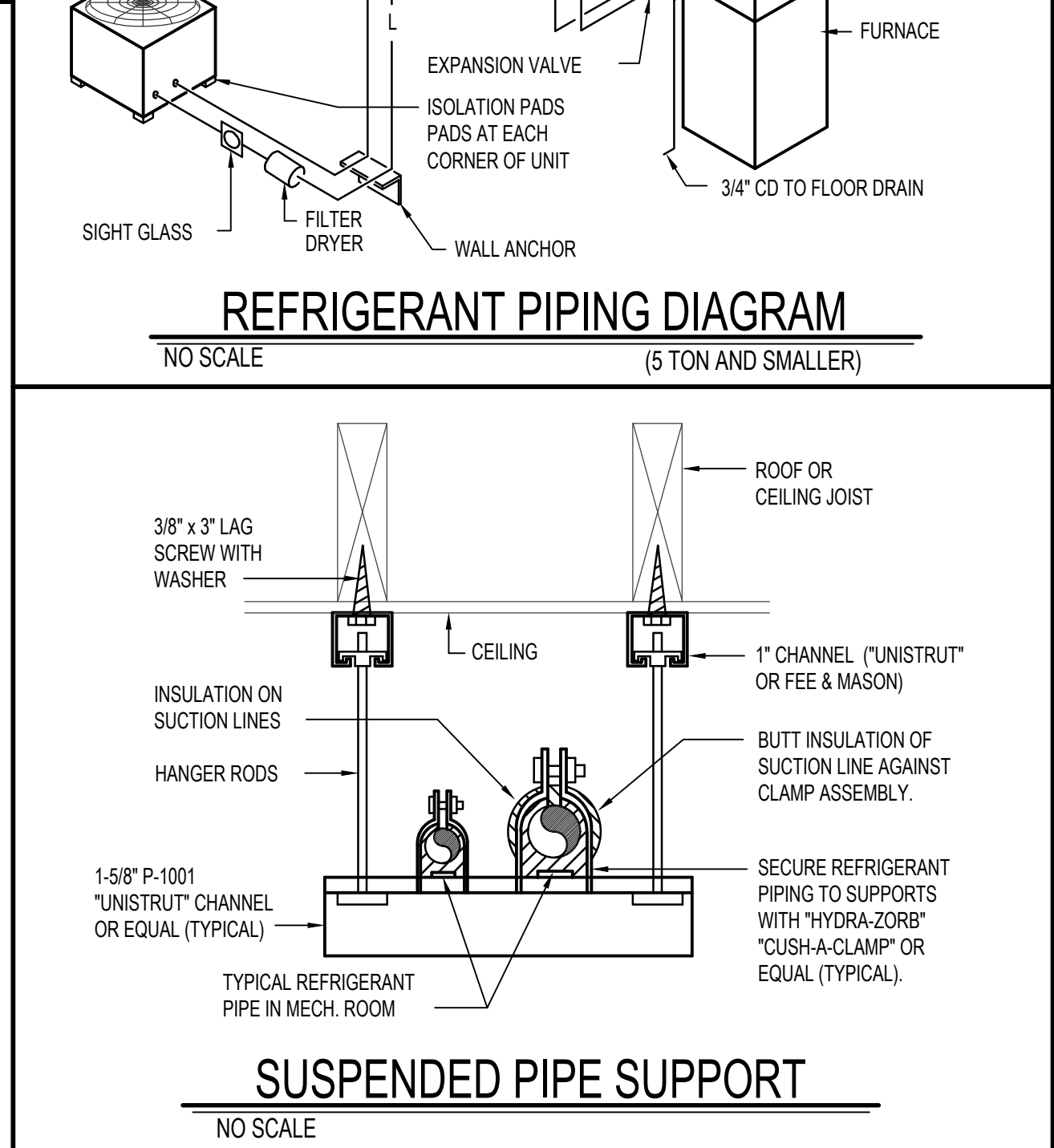
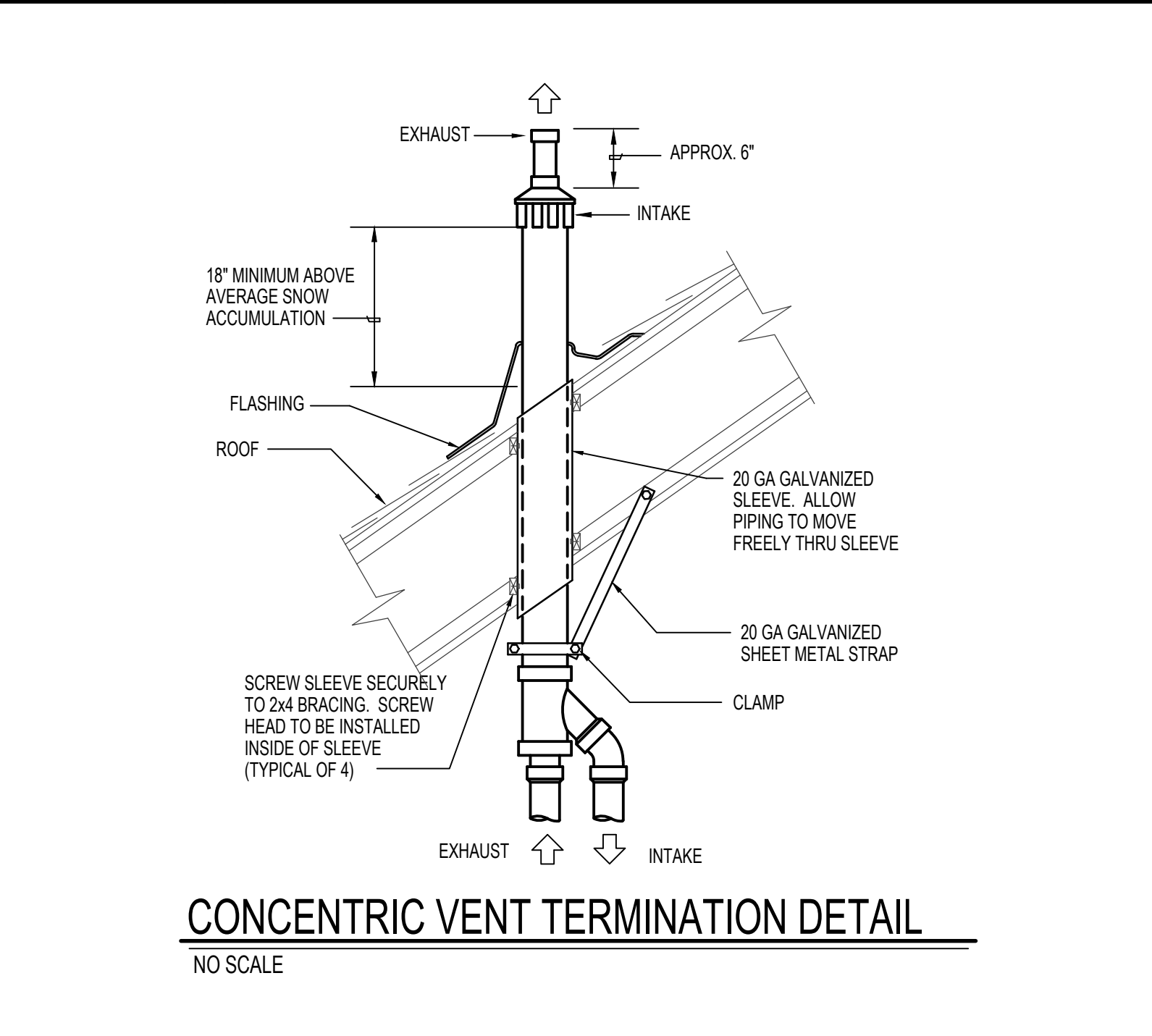
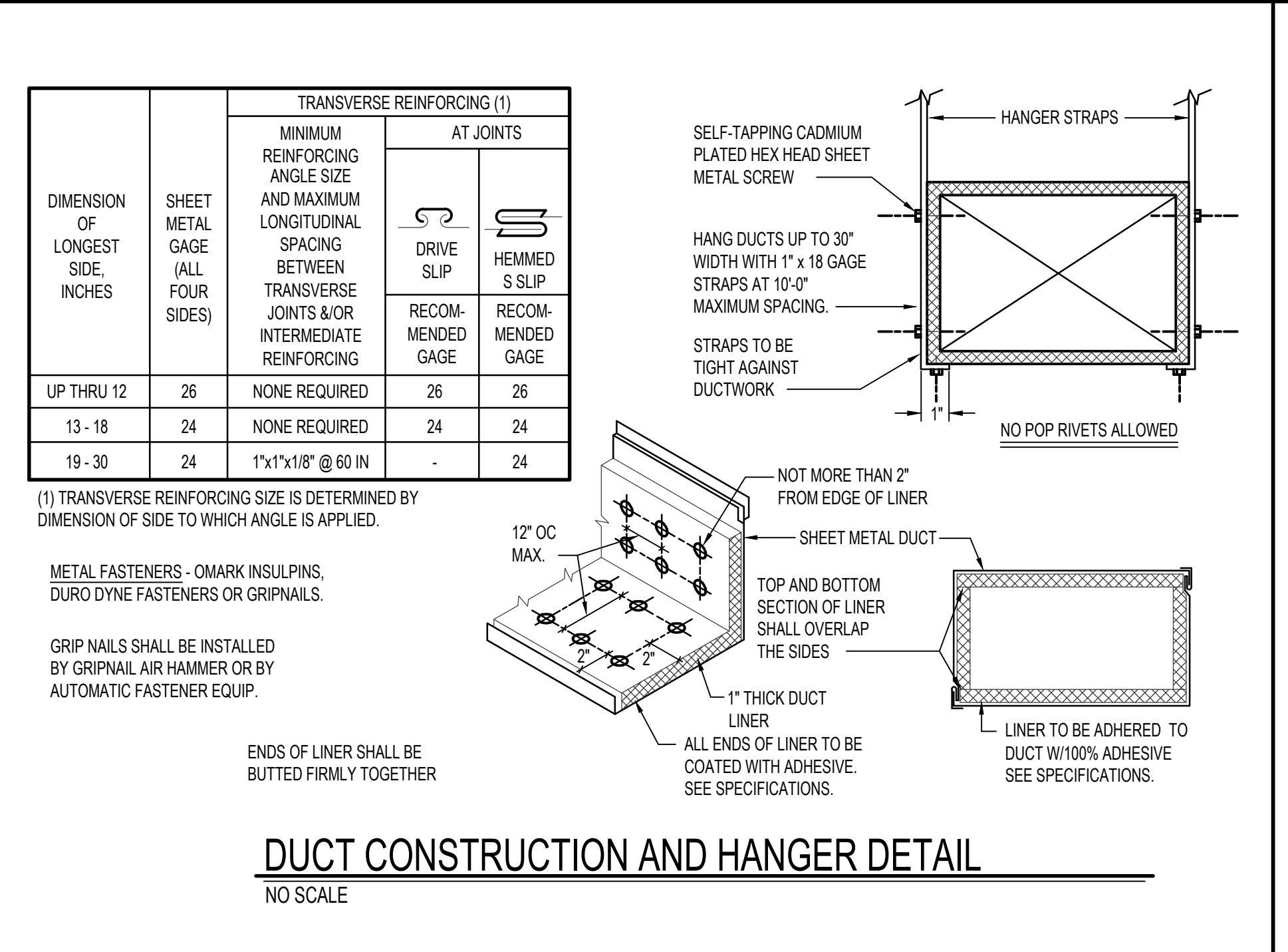
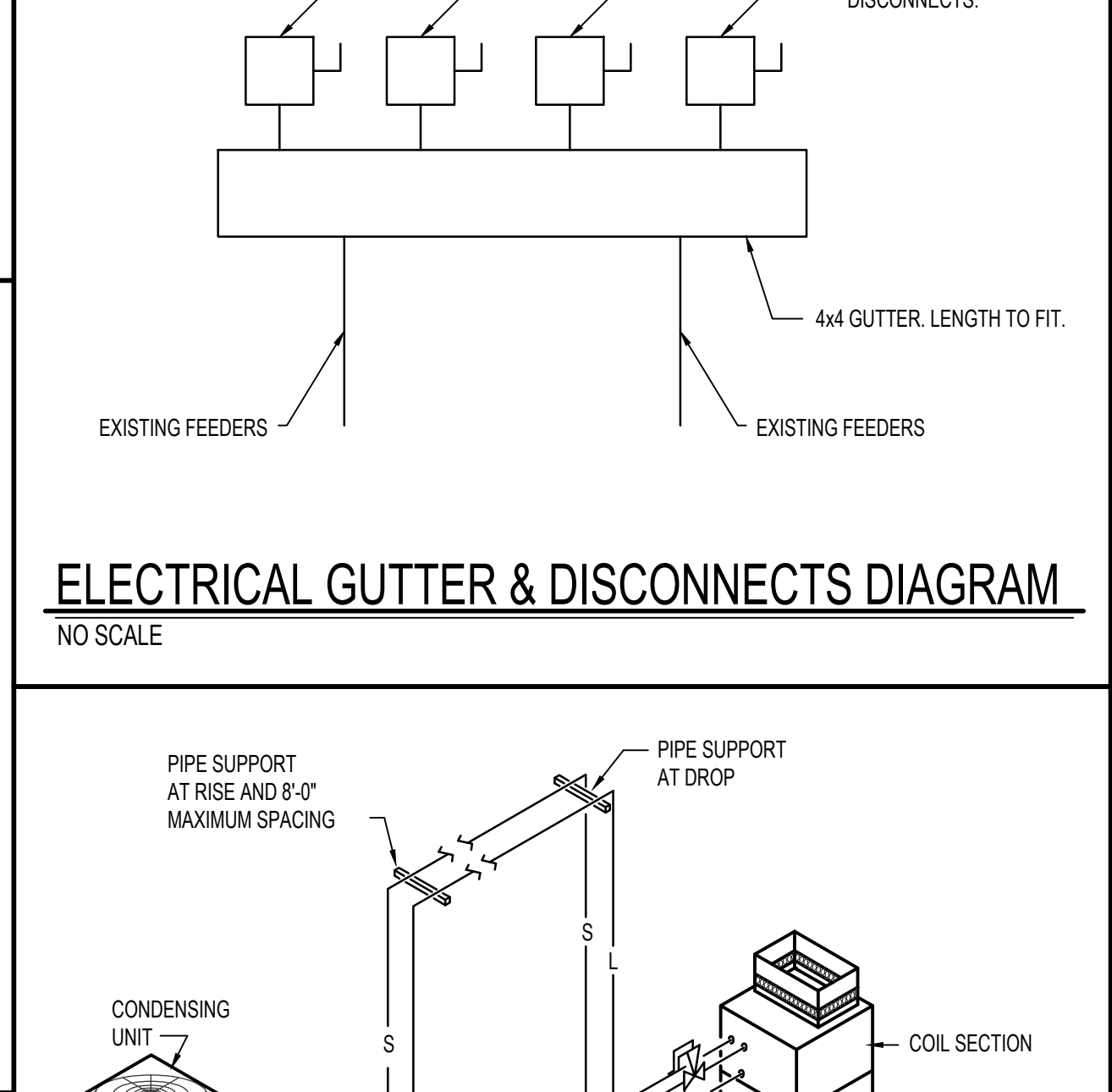
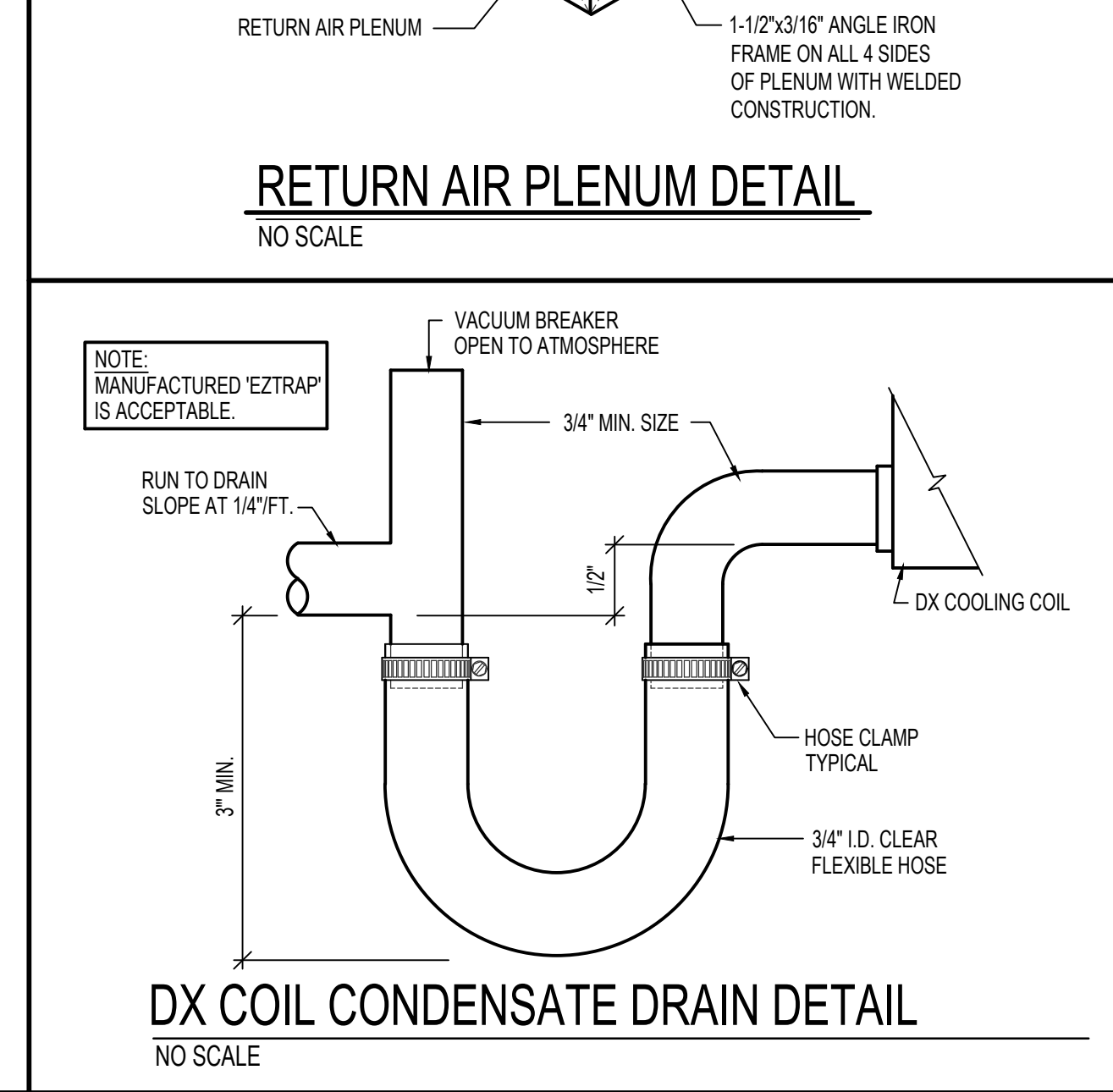
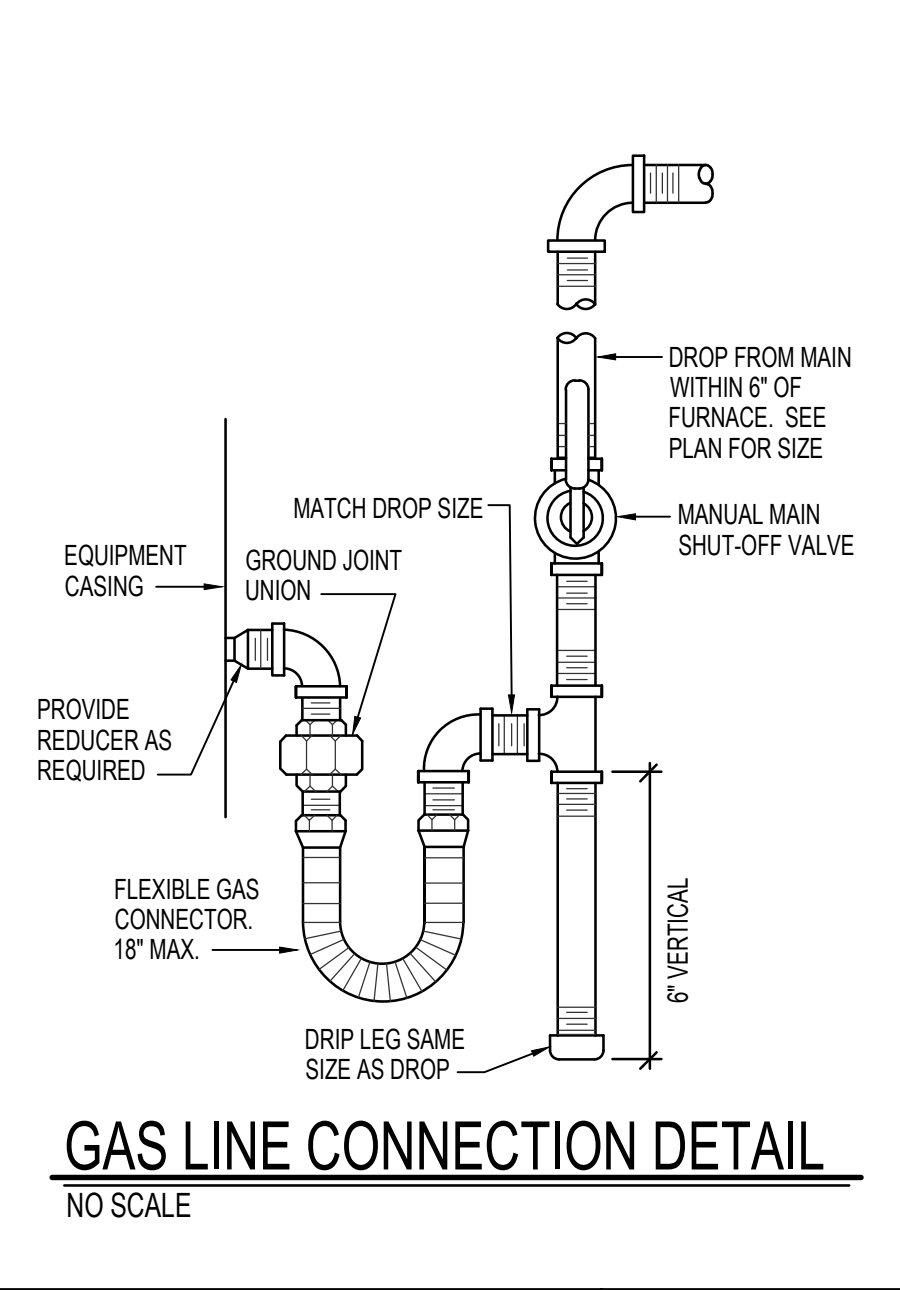
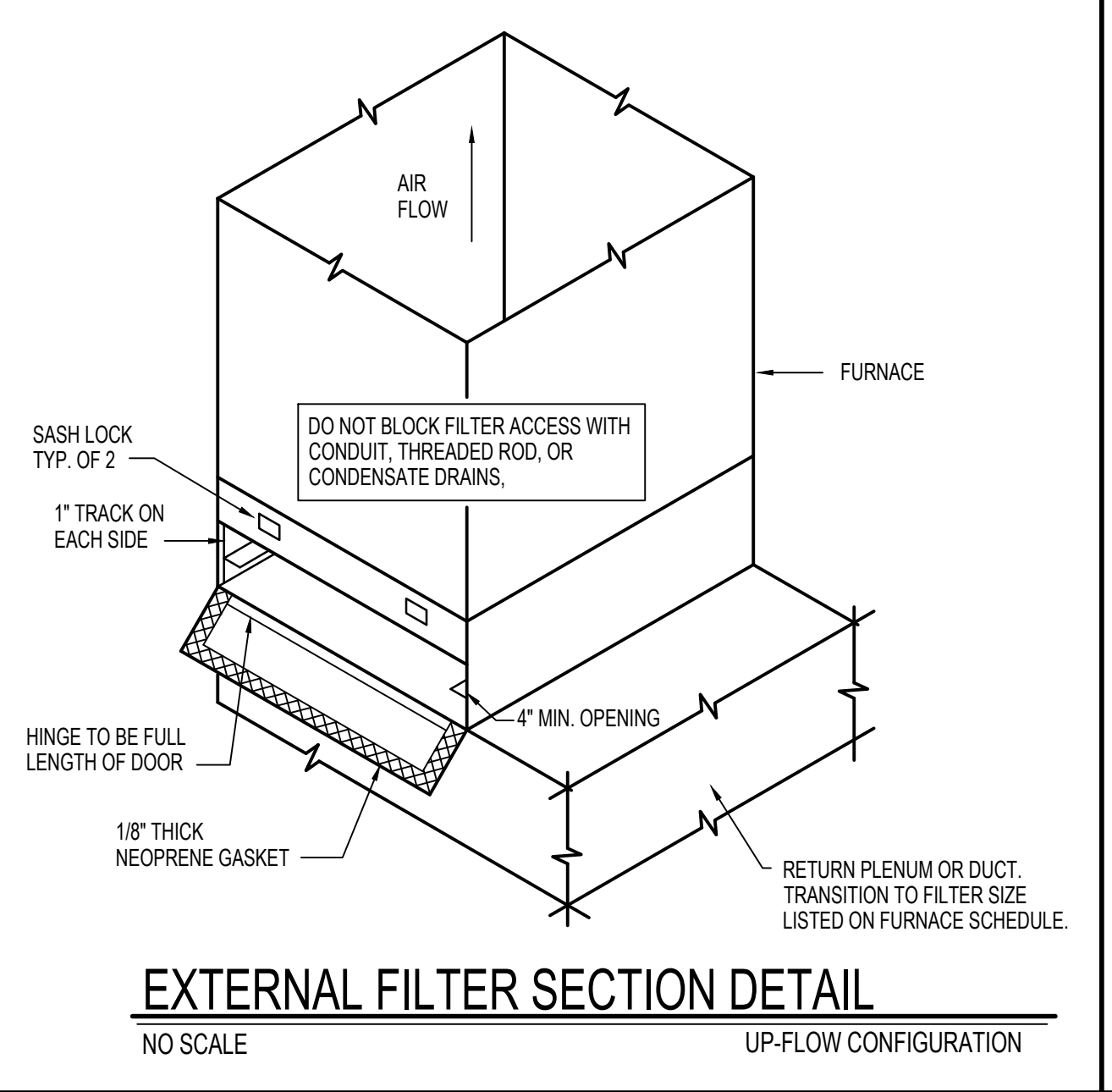
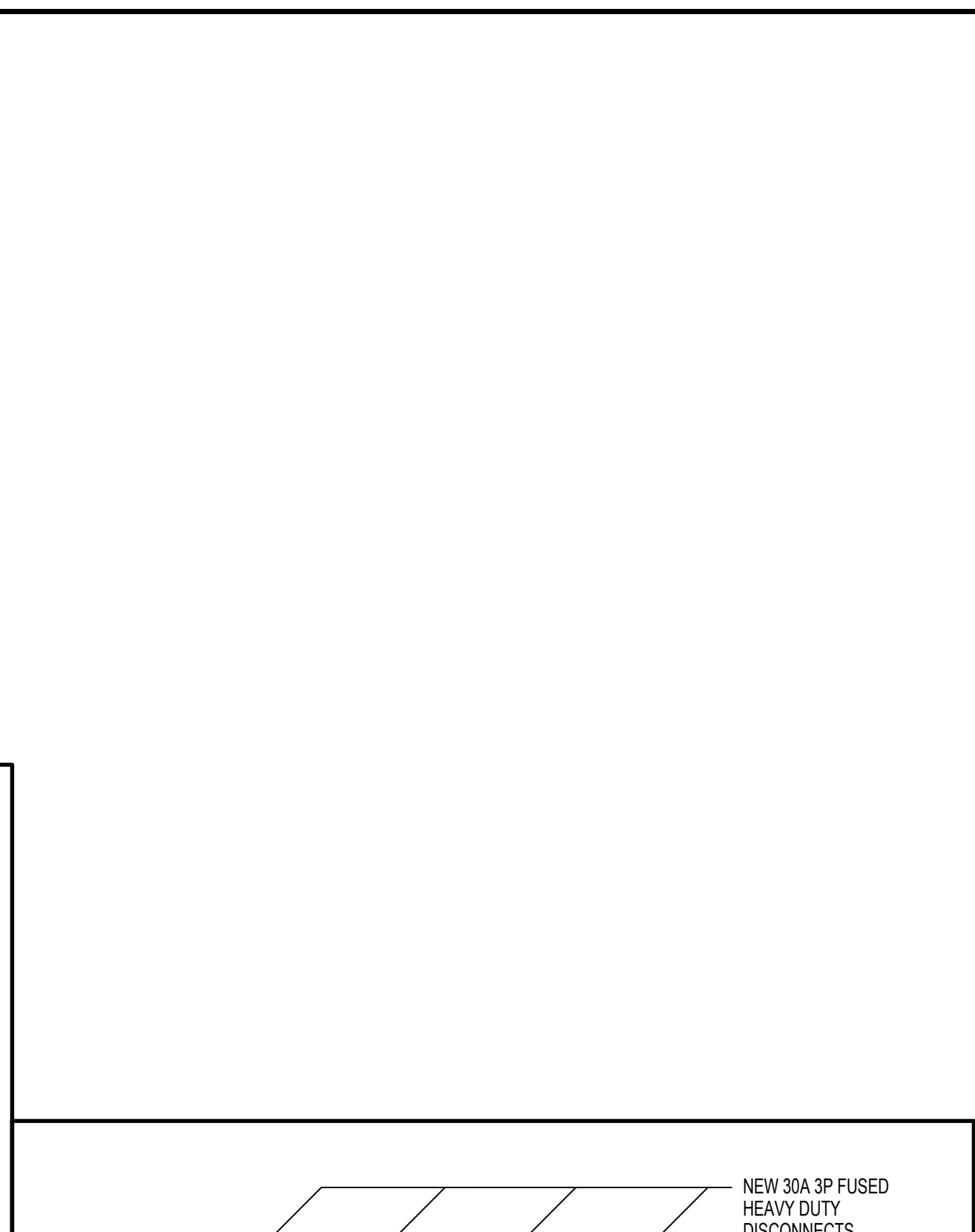
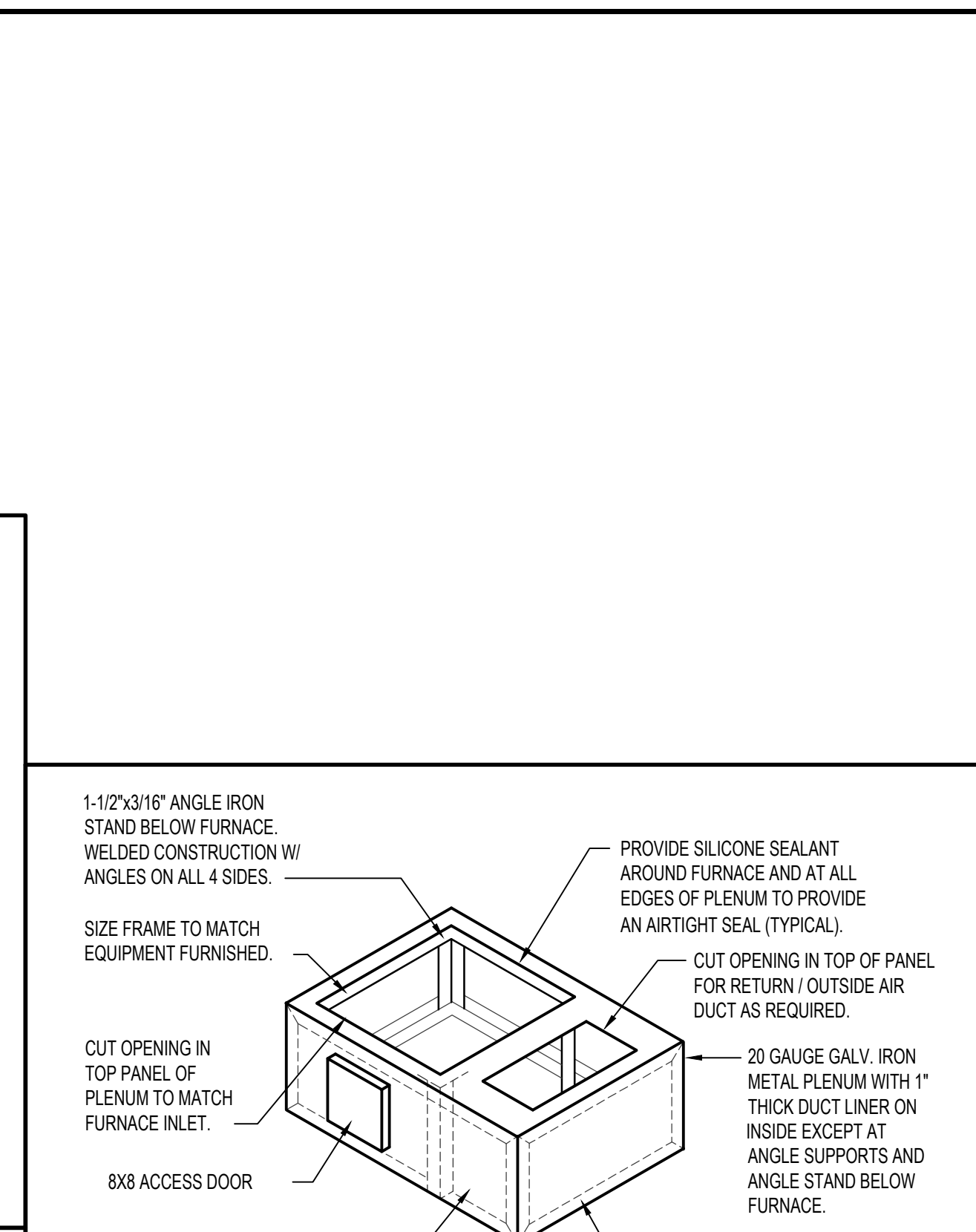
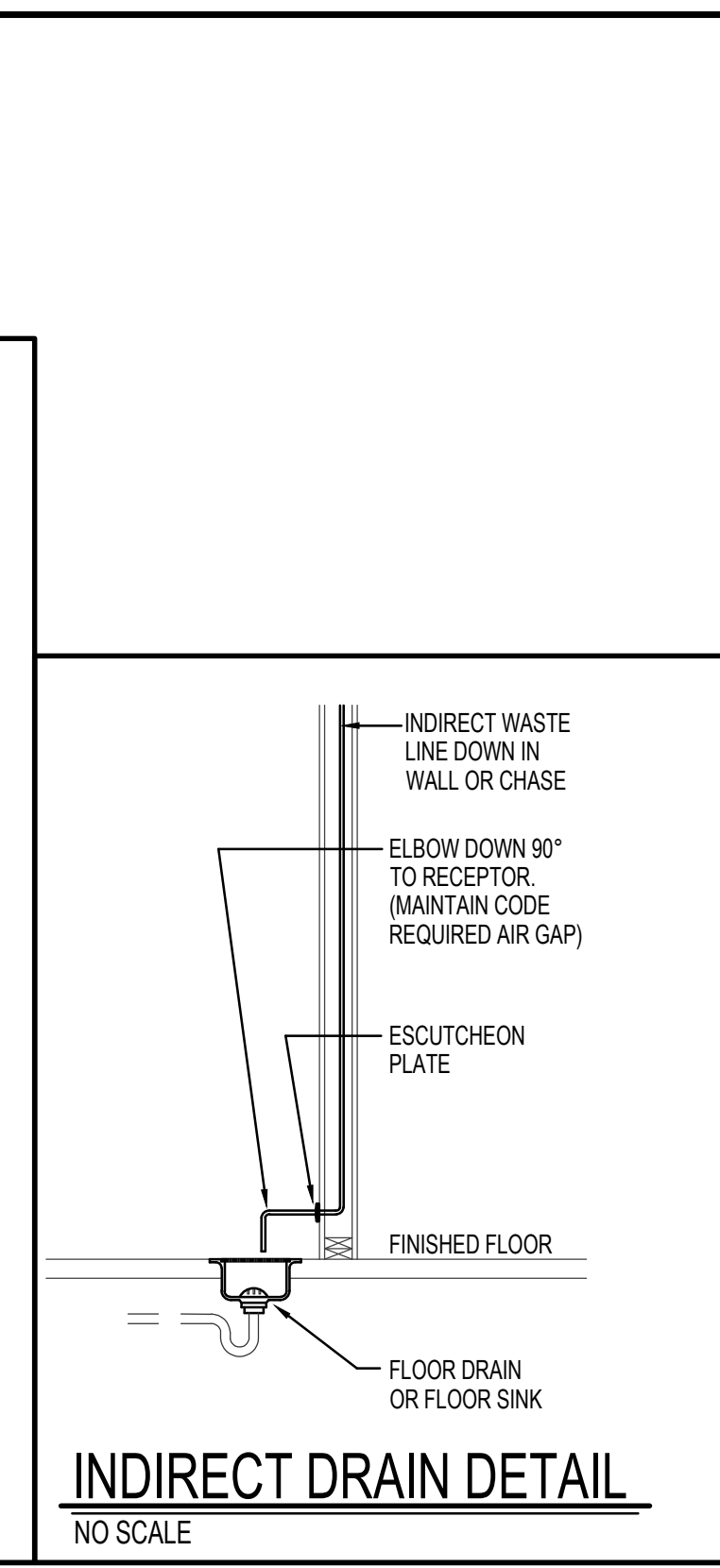
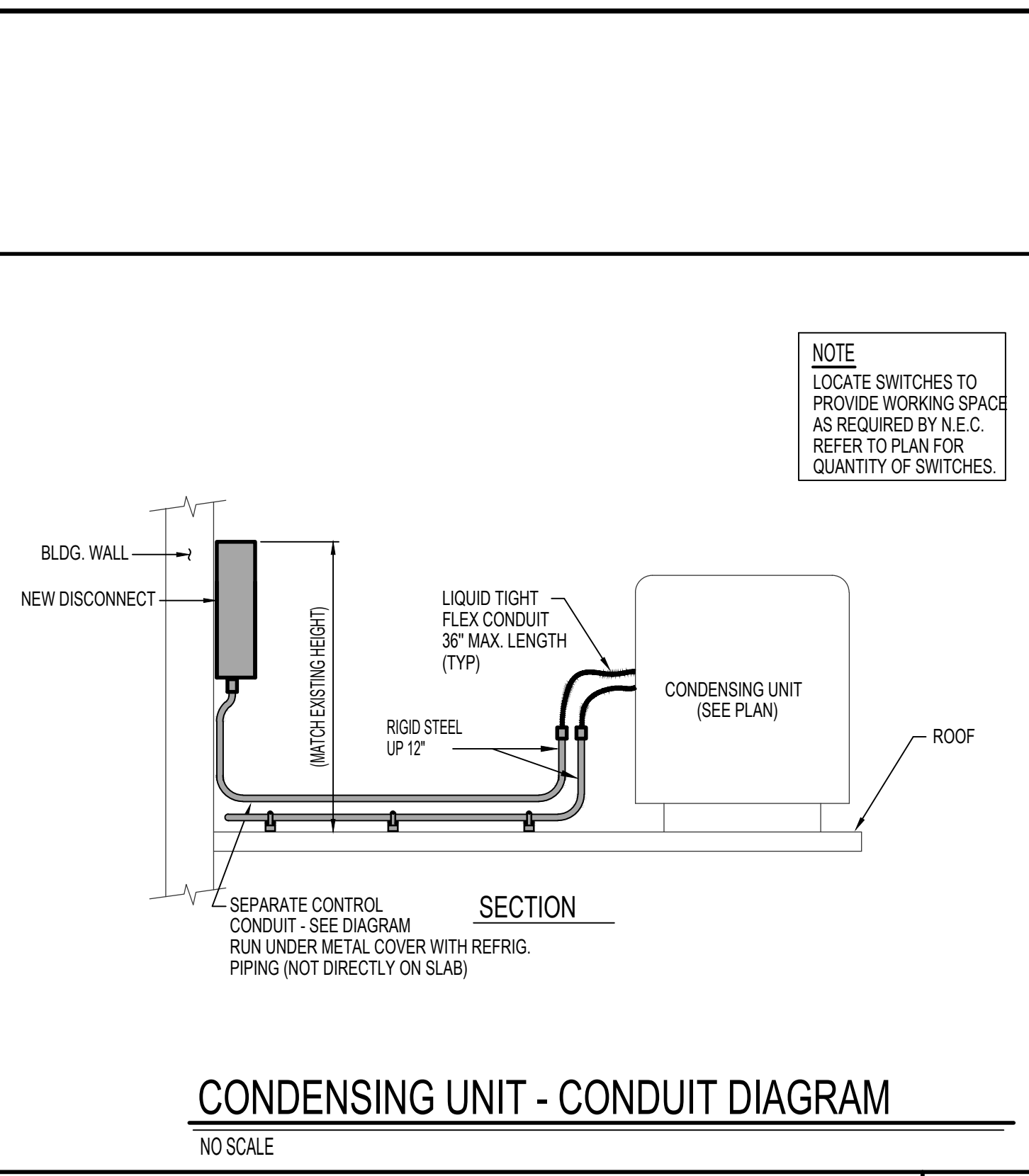


Engineered Systems Associates

1355 EAST CENTER
POCATELLO, IDAHO 83201

PHONE: (208) 233-0501
FAX: (208) 233-0529
EMAIL: esa@engsystems.com

ESA JOB NUMBER: 23088



NOTE
LOCATE SWITCHES TO
PROVIDE WORKING SPACE
AS REQUIRED BY N.E.C.
REFER TO PLAN FOR
QUANTITY OF SWITCHES.

CONDENSING UNIT - CONDUIT DIAGRAM
NO SCALE

INDIRECT DRAIN DETAIL
NO SCALE

RETURN AIR PLENUM DETAIL
NO SCALE

ELECTRICAL GUTTER & DISCONNECTS DIAGRAM
NO SCALE

EXTERNAL FILTER SECTION DETAIL
NO SCALE

GAS LINE CONNECTION DETAIL
NO SCALE

DX COIL CONDENSATE DRAIN DETAIL
NO SCALE

REFRIGERANT PIPING DIAGRAM
NO SCALE

DUCT CONSTRUCTION AND HANGER DETAIL
NO SCALE

CONCENTRIC VENT TERMINATION DETAIL
NO SCALE

SUSPENDED PIPE SUPPORT
NO SCALE

1133 Call Creek Ste C
Pocatello, Idaho 89201
Phone (208) 406-3153

JAMES K. LYSTRUP
ARCHITECT

BLACKFOOT 1, 7, 13
BLACKFOOT IDAHO STAKE
ROOF & HVAC REPLACEMENT
1650 HIGHLAND
BLACKFOOT IDAHO 83221

Project for:
THE CHURCH OF
JESUS CHRIST
OF LATTER-DAY SAINTS

Property Number:
513-2592
Plan Series:
Date:
2025, 04, 07

Sheet Title:
MECHANICAL &
ELECTRICAL
DETAILS

Sheet:
ME501

Professional Engineer
REGISTERED
18184
APR 08 2025
STATE OF IDAHO
DAVID L. HANSEN

Engineered
Systems
Associates
1355 EAST CENTER
POCATELLO, IDAHO 83201
PHONE: (208) 233-0501
FAX: (208) 233-0529
EMAIL: eso@engsystems.com
ESA JOB NUMBER: 23088

S:\Jobs\23088.LDS Highland BF 513-2592 CAD\23088.MSD1.dwg Apr 08, 2025 - 1:09pm

