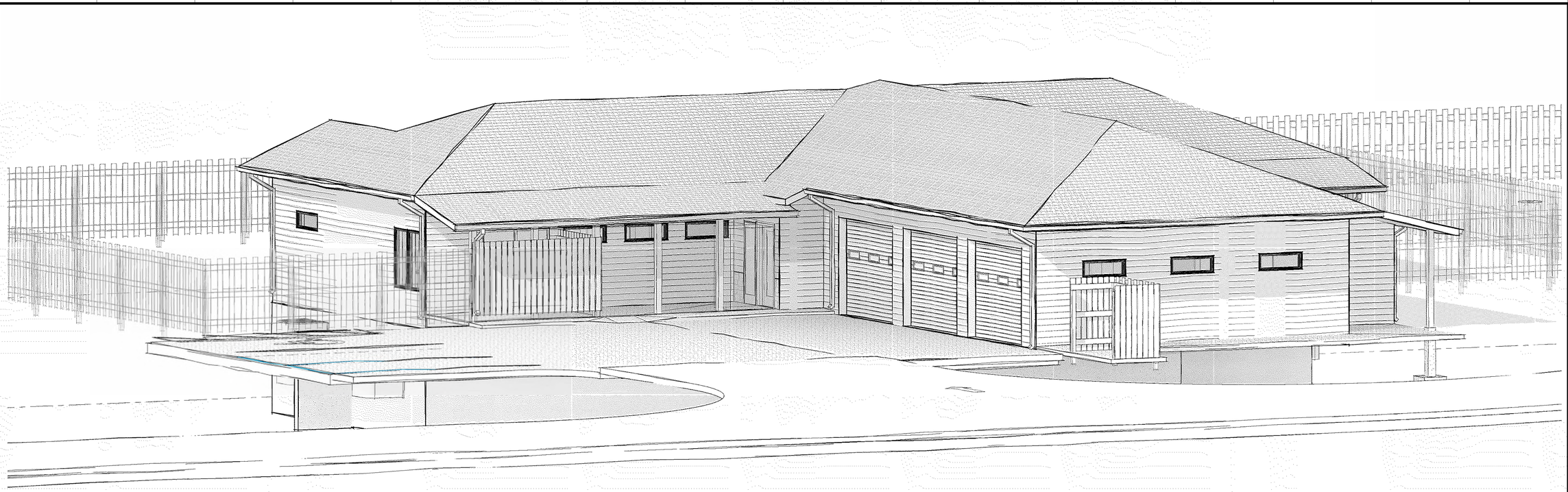
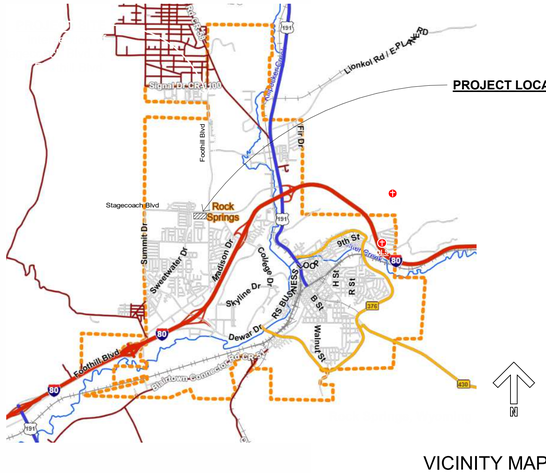


SHEET INDEX:

PROJECT LOCATION



VICINITY MAP

DESIGN TEAM

OWNER:
Holy Spirit Catholic Community
116 Broadway Street
Rock Springs, WY 82901
t) 307.362.2611
Pastor:
Fr. Bill Hill
e) bhill@dcwy.org
Vision Committee Co-Chairs:
Bob Arambel
e) barambel@sweetwaterhsa.com
Holli Radakovich
e) hradakovich@dcwy.org

CIVIL ENGINEER:
Jorgensen
58 South Tyler Avenue
PO Box 1519
Pinedale, Wyoming 82941
t) 307.367.6548
Principal Engineer:
Brian Gray, PE
e) bgray@jorgeng.com
Project Engineer:
Allysa Booth, PE
e) abooth@jorgeng.com

STRUCTURAL ENGINEER:
Martin / Martin Cunstulting Engineers
4020 Laramie Street
Cheyenne, Wyoming 82001
t) 307.637.8422
President
John Shaffer, PE
e) jshaffer@mmwyo.com
Associate:
Amanda Miller, PE
e) amiller@mmwyo.com

ARCHITECT:
Indian Paintbrush Architecture
9704 Vera Lane
Cheyenne, Wyoming 82009
t) 307.212.2736
Principal, Project Architect:
Clint Taylor, AIA, PE, LEED AP
e) Clint@IndianPaintbrushArch.com

MECHANICAL ENGINEER:
Design Point Engineering
1623 Central Avenue #29
Cheyenne, Wyoming 82001-4368
t) 307.222.9375
19 Old Town Square, #238
Ft. Collins, Colorado 80524
t) 970.430.5783
w) www.designpointengineering.com
President:
Justin Montgomery, PE, LEED AP
e) jmontgomery@designpointengineering.com
Mechanical Designer:
Jacob Nazeck
e) jnazeck@designpointengineering.com

ELECTRICAL ENGINEER:
Gust Engineering
3612 Pioneer Avenue
Cheyenne, Wyoming 82001
t) 307.638.2511
President
Mike Gust, PE
e) mgust@gustengineering.com

DRAWING NUMBERING

DISCIPLINE DESIGNATORS

G -	General	E -	Electrical
C -	Civil	T -	Technology
S -	Structural	FS -	Foodservice
A -	Architectural	AV -	Audio Visual
P -	Plumbing	PE -	Performance Equipment
M -	Mechanical		

SHEET TYPE DESIGNATORS

0	General	(symbols legend, notes, etc.)
1	Plans	(horizontal views)
2	Elevations	(vertical views)
3	Sections	(sectional views)
4	Large Scale Views	(plans, elevations, or sections that are not details)
5	Details	
6	Schedules and Diagrams	
7	User Defined	
8	User Defined	
9	3D Representations	(isometrics, perspectives, photographs)

WORK DESIGNATORS

Plans	Elevations	Sections
0 Default		
1 Site	Exterior	Building
2 Demolition	Interior	Wall
3 Floor Plans		
4 Reflected Ceiling Plans		
5 ?		
6 ?		
7 Roof Plans		
8 ?		
9 Finish Plans		

LEVEL DESIGNATORS / SHEET NUMBERS IN SEQUENCE

Plans	Elevations	Sections
0 Basement	0	0
1 First Floor	1	1
2 Second Floor	2	2
3 Third Floor	3	3
etc. etc.	etc.	etc.

REVISION SCHEDULE

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INDIAN PAINTBRUSH ARCHITECTURE, LLC
9704 VERA LANE
CHEYENNE, WYOMING 82009
307.212.2736 IndianPaintbrushArch.com

LICENSED ARCHITECT CLINTON E TAYLOR C-2909 STATE OF WYOMING 06/22/26

NEW RECTORY AT HSCC
HOLY SPIRIT CATHOLIC COMMUNITY
ROCK SPRINGS, WYOMING

APN: 03-HSCC-26
Date Issued: 06/22/26
Drawn By: CET
Checked By: CET

Sheet Title: GENERAL INFORMATION SHEET

Sheet Number: G-001

6/22/2026 12:15:37 PM
Project Status

GENERAL NOTES:

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   f. MEAN ANNUAL TEMP: 44.1 DEGREES F
   g. AIR FREEZING INDEX: NO
   h. WEATHERING: SEVERE
   i. TERMITE: SLIGHT
   j. SEISMIC DESIGN CATEGORY: B
   k. AND OTHER REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION OVER THE PROJECT.
5. MINE SUBSIDENCE CLASSIFICATION: PROJECT IS LOCATED OUTSIDE OF ARE DELINEATED BY AML PROJECTS 6A PHASE I, II, III, VII, VIII, AND IX, AS WELL AS OUTSIDE OF AREA DELINEATED BY 1989 AMENDED CSM (COLORADO SCHOOL OF MINES) MAP.
6. GENERALLY, TYPICAL NOTES, DIMENSIONS, ELEVATIONS, ETC. ARE SHOWN OR NOTED ON THE FIRST DRAWING ON WHICH THEY APPEAR.
7. DO NOT SCALE DRAWINGS.

GENERAL SITE PLAN DATA:

1. LEGAL DESCRIPTION: T19N R105W SEC 28 NE4 LOT 17
2. ADDRESS OF THE SITE: TBD FOOTHILL BLVD, ROCK SPRINGS, WYOMING 82901
3. EXISTING ZONING DISTRICT: R-1
4. REQUESTED ZONING DISTRICT: R-1, CONDITIONAL USE
5. COMPUTATION TABLE:
   A. TOTAL SITE AREA: 20.71 ACRES, MORE OR LESS
   B. BUILDING AREA:
      1. RECTORY = 3,700 SF
   C. SETBACKS REQUIRED (TABLE OF DEVELOPMENT STANDARDS):
      1. FRONT: 30'
      2. INTERIOR SIDE: 30'
      3. CORNER SIDE: 30'
      4. REAR: 30'
      5. HEIGHT: 28'
   D. BUILDING HEIGHT: RECTORY: 16'-9"
   E. PARKING REQUIREMENTS:
      1. PARKING RATIO BY ZONING ORDINANCE:
         a. TWO OFF-STREET SPACES PER UNIT.
            - 3 UNITS = 6 SPACES
   F. PROPERTY COVERAGE:
      1. MAXIMUM BY ZONING ORDINANCE: 50%
      2. ACTUAL:
         a. BUILDING: 3,700 SF
         b. PARKING: 2,780 SF
         c. SIDEWALKS: 0 SF
         d. DRIVEWAYS: 16,225 SF
         e. SUBTOTAL: 22,705 SF
         f. PERCENTAGE COVERAGE: 2.5% < 50%
   G. ESTIMATED TRIPS PER DAY GENERATED BY THE USE: 15

ARCHITECTURAL SITE LEGEND:

PROPOSED UTILITY	EXISTING UTILITY	
W	W	WATER MAIN
SA	SAN	SANITARY SEWER
ST	SS	STORM SEWER
GAS	GAS	GAS LINE
UE	UE	UNDERGROUND ELECTRICAL
UGT	UGT	UNDERGROUND TELEPHONE
FO	FO	UNDERGROUND FIBER OPTIC
CATV	CATV	UNDERGROUND CABLE TV
UTIL	UTIL	UNDERGROUND UTILITY
		BUILDING LINE
		PROPERTY LINE
		PROPERTY SETBACK
		PROPOSED DRAINAGE
	OR	DECIDUOUS TREE
		CONIFEROUS TREE

2024 INTERNATIONAL BUILDING CODE (IBC)

CHAPTER 3 - OCCUPANCY CLASSIFICATION AND USE

SECTION 302 - OCCUPANCY CLASSIFICATION AND USE DESIGNATION

OCCUPANCY CLASSIFICATION: **R-3**, CONGREGATE LIVING FACILITY, NONTRANSIENT (STAY IS MORE THAN 30 DAYS), WITH 16 OR FEWER OCCUPANTS

WILL THIS BE A NON-SEPARATED MIXED USE? YES

CHAPTER 5 - GENERAL BUILDING HEIGHTS AND AREAS

SECTION 504 - BUILDING HEIGHT AND NUMBER OF STORIES

TYPE OF CONSTRUCTION	**VB**
OCCUPANCY GROUP	**R-3**
AUTOMATIC SPRINKLER SYSTEM?	**YES, NFPA 13D**
MAXIMUM HEIGHT PER TABLE 504.3	**40'** ABOVE GRADE
ACTUAL HEIGHT	**17'**
MAXIMUM NUMBER OF STORIES PER TABLE 504.4:	**3** STORIES ABOVE GRADE
ACTUAL NUMBER OF STORIES	**1** STORIES ABOVE GRADE PLANE

SECTION 506 - BUILDING AREA

ALLOWABLE AREA FACTOR PER TABLE 506.2: **UL** SQUARE FEET (At = SM)

NUMBER OF SIDES WITH A FULLY OPEN PERIMETER ON A PUBLIC WAY OR OPEN SPACE OF AT LEAST 20': 3 OF 4 (75%)

FRONTAGE INCREASE FACTOR PER TABLE 506.3.3
50%-75%, 30 OR GREATER **If = 0.50**

EQUATION 5-3 Aa = At + [NS * If]
Aa = 18,000 + [18,000 * 0.50] **Aa = UNLIMITED** SQUARE FEET

AREA INCLUDED WITHIN EXTERIOR WALLS: **3,700** SQUARE FEET

CHAPTER 6 - TYPES OF CONSTRUCTION

TABLE 601 - FIRE RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS (HOURS)

STRUCTURAL FRAME		0 HOURS
BEARING WALLS	EXTERIOR	0 HOURS
	INTERIOR	0 HOURS
NON-BEARING WALLS AND PARTITIONS -	INTERIOR	0 HOURS
	FLOOR CONSTRUCTION	0 HOURS
	ROOF CONSTRUCTION	0 HOURS

CHAPTER 7 - FIRE AND SMOKE PROTECTION FEATURES

TABLE 705.5 - FIRE-RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE

x < 5 FEET	1 HOURS
5 < x < 10 FEET	1 HOURS
10 < x < 30 FEET	0 HOURS
x > 30 FEET	0 HOURS

TABLE 705.9 - MAXIMUM AREA OF EXTERIOR WALL OPENINGS BASED ON FIRE SEPARATION DISTANCE AND DEGREE OF OPENING PROTECTION

FIRE SEPATION DISTANCE (FEET) - UNPROTECTED, SPRINKLERED

x < 3 FEET	NOT PERMITTED
3 < x < 5 FEET	15%
5 < x < 10 FEET	25%
10 < x < 15 FEET	45%
15 < x < 20 FEET	75%
20 < x < 25 FEET	NO LIMIT
25 < x < 30 FEET	NO LIMIT
x > 30 FEET	NO LIMIT

ACTUAL FIRE SEPARATION DISTANCE

WEST SIDE	761' > 20'
NORTH SIDE	529' > 20'
EAST SIDE	469' > 20'
SOUTH SIDE	51' < 20'

SECTION 713 - SHAFT ENCLOSURES

713.4 - FIRE-RESISTANCE RATING: 1 HOUR

SECTION 903 - AUTOMATIC SPRINKLER SYSTEMS

903.2.8 NFPA 13D AUTOMATIC SPRINKLER SYSTEM SHALL BE PROVIDED THROUGHOUT.

REVISION SCHEDULE

Revision Number	Revision Description	Revision Date

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LICENSED ARCHITECT CLINTON E. TAYLOR C-2909 STATE OF WYOMING Date: 06/22/26

NEW RECTORY AT
HOLY SPIRIT CATHOLIC COMMUNITY
ROCK SPRINGS, WYOMING

APN: 19.2.360b
Date Issued: 06/22/26
Drawn By: CET
Checked By: CET
Sheet Title: ENLARGED RECTORY SITE PLAN
Sheet Number: G-111

K1 SITE PLAN - RECTORY
1" = 30'-0" G-111

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Project Status

2018 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)

CHAPTER 4 [CE] - COMMERCIAL ENERGY EFFICIENCY

TABLE C402.1.3 OPAQUE THERMAL ENVELOPE INSULATION COMPONENT MINIMUM REQUIREMENTS, R-VALUE METHOD, CLIMATE ZONE 6B

ROOF	
ATTIC & OTHER	R-49
WALLS, ABOVE GRADE	
WOOD FRAME	R-13+R-7.5ci - OR - R-20+R-3.8ci
FLOOR JOIST/FRAMING	R-30
WALLS BELOW GRADE	R-7.5ci
UNHEATED SLAB EDGES	R-15 FOR 24" BELOW
HEATED SLAB EDGES	R-20 FOR 48" BELOW + R-5 FULL SLAB

CHAPTER 4 [RE] - RESIDENTIAL ENERGY EFFICIENCY

TABLE R402.1.2 INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT, CLIMATE ZONE 6B

FENESTRATION	0.30 U-FACTOR	EQUIVALENT U-FACTOR 0.300
SKYLIGHT	0.55 U-FACTOR	EQUIVALENT U-FACTOR 0.550
GLAZED FENESTRATION	SHGC, NR	
CEILING	R-49	EQUIVALENT U-FACTOR 0.026
WOOD FRAMED WALL	R-20+R-5ci - OR - R-13+R-10ci	EQUIVALENT U-FACTOR 0.045
MASS WALL	R-19/R-21 (>half on interior of wall)	EQUIVALENT U-FACTOR 0.060
FLOOR	R-38 - OR - Fill framing cavity >R-19	EQUIVALENT U-FACTOR 0.033
BASEMENT WALL	R-15ci - OR - R-19 - OR - R13+R-5ci	EQUIVALENT U-FACTOR 0.050
UNHEATED SLAB EDGES	R-10 FOR 48" BELOW	
HEATED SLAB EDGES	R-10 FOR 48" BELOW + R-5 FULL SLAB	
CRAWL SPACE WALL	R-15ci - OR - R-19 - OR - R13+R-5ci	EQUIVALENT U-FACTOR 0.055

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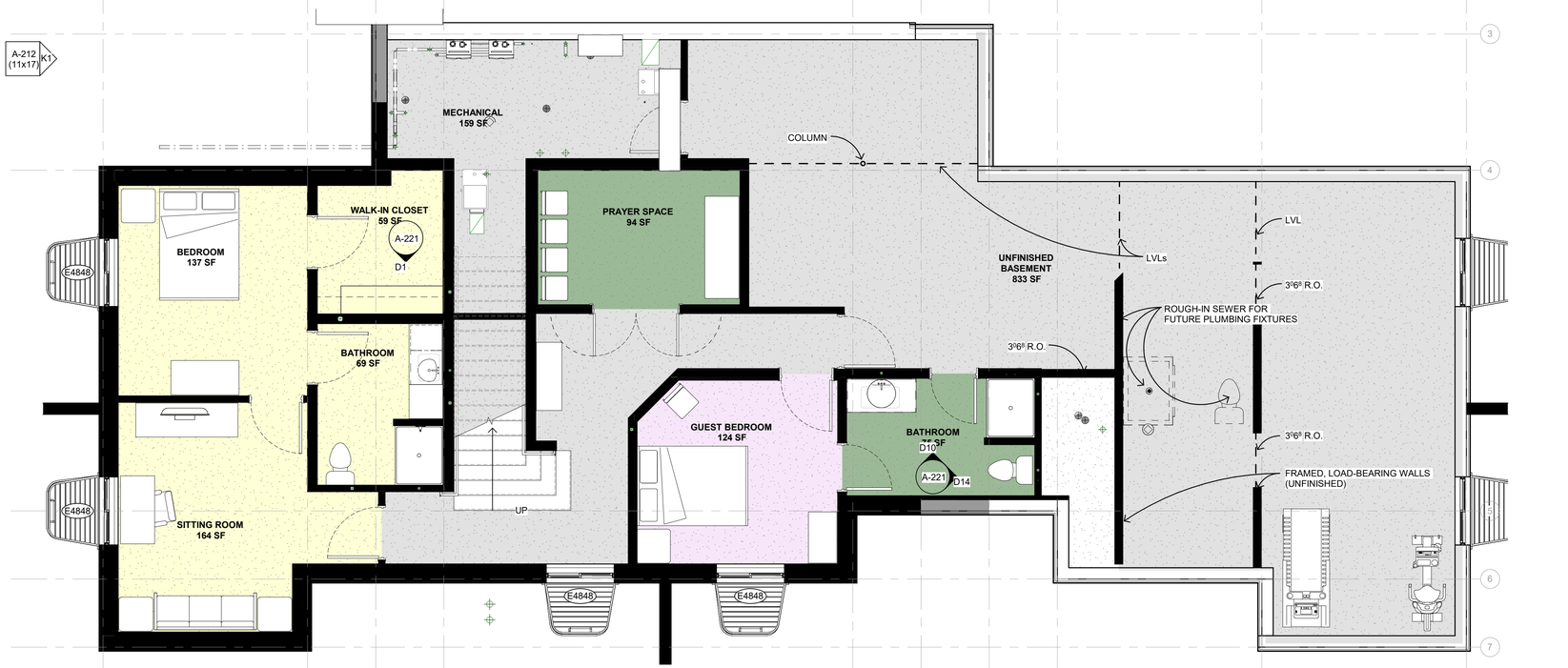

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APN: 03-HSCC-26
Date Issued: 06/22/26
Drawn By: CET
Checked By: CET
Sheet Title: LOWER LEVEL CODE PLAN
Sheet Number: G-130

6/22/2026 12:15:38 PM
Project Status

ICC 2017 A117.1 404.2.3.2 MANEUVERING CLEARANCES AT SWINGING DOORS AND GATES

ICC 2017 A117.1 SECTION 304 - TURNING SPACE

ICC 2017 A117.1 SECTION 305 - CLEAR FLOOR SPACE

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2010 ADA STANDARDS FOR ACCESSIBLE DESIGN (ADA)

106 DEFINITIONS

RESIDENTIAL DWELLING UNIT. A UNIT INTENDED TO BE USED AS A RESIDENCE, THAT IS PRIMARILY LONG-TERM IN NATURE. RESIDENTIAL DWELLING UNITS DO NOT INCLUDE TRANSIENT LODGING, INPATIENT MEDICAL CARE, LICENSED LONG-TERM CARE, AND DETENTION OR CORRECTIONAL FACILITIES.

804 KITCHENS AND KITCHENETTES

AT LEAST ONE 30" WIDE SECTION OF COUNTER SHALL PROVE A KITCHEN WORK SURFACE:
1. CLEAR FLOOR SPACE POSITIONED FOR A FORWARD APPROACH
2. CABINETRY SHALL BE PERMITTED UNDER KITCHEN WORK SURFACE IF:
   a. THE CABINETRY CAN BE REMOVED WITHOUT REMOVAL OR REPLACEMENT OF THE KITCHEN WORK SURFACE;
   b. THE FINISH FLOOR EXTENDS UNDER THE CABINETRY; AND
   c. WALLS BEHIND AND SURROUNDING THE CABINETRY ARE FINISHED.
3. HEIGHT SHALL BE 34".

REVISION SCHEDULE

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LICENSED ARCHITECT
CLINTON E. TAYLOR
C-2909
06/22/26
STATE OF WYOMING

NEW RECTORY AT HSCC
HOLY SPIRIT CATHOLIC COMMUNITY
ROCK SPRINGS, WYOMING

APN: 03-HSCC-26
Date Issued: 06/22/26
Drawn By: CET
Checked By: CET
Sheet Title: MAIN LEVEL CODE PLAN
Sheet Number: G-131

6/22/2026 12:15:39 PM
Project Status

SECTION 01 00 00 - GENERAL REQUIREMENTS

PART 1 - GENERAL
General Conditions: General Conditions of the contract for construction form AIA A201-2017 shall be incorporated into the contract documents, Owner- Contractor agreement shall govern, if General Conditions conflict with the agreement.
Contractor shall acknowledge in writing, that he has read and reviewed construction documents in their entirety including all information contained in General Conditions.
Nothing contained in Drawings or in any accompanying Contract Documents shall create any contractual relationship between Contractor and Architect.
Contractor shall purchase and maintain liability insurance for duration of project as indicated in AIA A201-2017, Article 11 Certificates of Insurance acceptable to Owner shall be filed with Owner and include Owner, Architect, and Architect's consultants as additional insureds.
Contradictions: Should any contradiction, ambiguity, error, or inconsistency appear in or between any of the contract documents, notify Architect and request interpretation before proceeding with work in question.
Dimensions and descriptions on construction Drawings are complimentary. Work shown or referred to on any construction document shall be provided as though on all related documents.
Do not directly measure or "scale" Drawings to ascertain any dimension. Clarify dimensions in conflict or not noted, with Architect.
Existing conditions:
Information relating to existing surface, subsurface conditions, and any existing structures will be provided directly by Owner.
Prior to beginning work, examine site and portions thereof which will affect work and compare with Drawings to verify conditions under which work is to be performed.
Notify Architect in writing of any discrepancies in existing conditions prior to beginning construction. Work in problem areas shall not proceed until approved by Architect. Proceeding with work shall constitute acceptance of project conditions.
Work by Owner: Cooperate fully with Owner to minimize conflicts without interfering with or delaying work under this contract or work by Owner coordinate work under this contract with work performed by Owner.
Use of Site: Contractor shall have limited use of project site for construction operations during construction period. Contractor's use of site is limited only by Owner's right to perform work.
Language Conventions: imperative mood and streamlined language are generally used in the Drawings.
PART 2 – PRODUCTS (Not Used)
PART 3 – EXECUTION (Not Used)

SECTION 01 00 01 - SPECIAL PROVISIONS FOR CIVIL WORK

PART 1 - GENERAL
1.1 SUMMARY
Section Includes: Administrative and regulatory performance constraints for Civil Work.
1.2 CITY/TOWN STANDARD SPECIFICATIONS AND/OR STANDARD DETAILS:
All civil work shall comply with City/Town Standard Specifications and Standard Drawings, edition current as of the Bid Date for this project, and any approved amendments issued by the City Engineer at the time of this contract. The referenced documents are hereby incorporated by reference but are not bound in this project manual. Those specifications may be obtained from the City/Town. It is the contractor's responsibility to keep himself current of these amendments.
Owner: The term "Owner," as used in the standard specifications of these special Provisions, shall mean the Owner of this project, or an authorized representative, rather than the City/Town. The term "Engineer" as used in these Special Provisions shall mean the Engineer of Record for this Contract, or an authorized representative, rather than the City/Town.
1.3 SEPARATE MEASUREMENT:
No separate measurement of payment will be made for any work which is included in the scope of this project, but not listed as a bid item, and there being no special provision for such work. Full compensation shall be considered as included in the prices paid for the various contract items and no additional compensation will be allowed therefore.
1.4 WYOMING PUBLIC WORKS STANDARD SPECIFICATIONS:
All civil work shall comply with the Wyoming Public Works Standard Specifications, most current edition, along with any City/Town amendments to WPWSS.

SECTION 01 20 00 - PRICE & PAYMENT PROCEDURES

PART 1 - GENERAL
1.1 SUMMARY
Section Includes: Administrative and procedural requirements for handling unit prices, alternates, and applications for payment.
1.2 SCHEDULE OF VALUES
Format: Provide a detailed breakdown of the contract sum using the AIA Document G703 or a mutually agreed computerized spreadsheet format.
Line Items: Correlate line items directly with the MasterFormat divisions, project specification sections, and distinct physical buildings or phases.
Sub-Schedules: Break down major lump-sum items into individual component costs, isolating material procurement from labor installation.
1.3 APPLICATIONS FOR PROGRESS PAYMENTS
Submittal Frequency: Submit one notarized application for payment on the first day of each month for work completed during the preceding month.
Forms Used: Standard AIA G702 (Application and Certificate for Payment) paired with AIA G703 (Continuation Sheet).
Initial Application: Include the approved Schedule of Values, a list of subcontractors, and proof of required builder's risk insurance policies.
Progress Applications: Document the exact percentage of physical work completed and materials securely stored on-site or in approved warehouses.
Lien Waivers: Attach unconditional lien waivers for the previous month's payout and conditional waivers for the current billing cycle.
Stored Materials: Include certified invoices, proof of insurance, and photographs for any off-site materials billed in the application. Materials must be stored in-State.
Schedule: Provide revised Construction Progress Schedule with each application.
1.4 ALTERNATES AND UNIT PRICES
Alternates: Procedural guidelines for executing accepted additive or deductive pricing options reviewed during bidding.
Unit Prices: Methods for measuring actual field quantities and adjusting the contract sum via change orders when quantities vary from estimates.
1.5 RETAINAGE PROCEDURES
Withholding: Deduct 5% from each progress payment as security for the regular fulfillment of contract terms.
PART 2 - PRODUCTS (Not Used)
PART 3 - EXECUTION (Not Used)

SECTION 01 25 00 - SUBSTITUTION PROCEDURES

PART 1 - GENERAL
1.1 SUMMARY
Section Includes: Administrative and procedural rules for submitting, reviewing, and processing contractor requests for material substitutions.
1.2 DEFINITIONS
Substitutions: Changes in products, materials, equipment, and methods of construction from those required by the Contract Documents.
Comparable Product: A product that matches the specified item in quality, performance, and aesthetic intent, but is from a non-named manufacturer.
1.3 SUBMITTAL TIMEFRAMES
Bidding Phase: Submit substitution requests to the Architect within 10 days prior to the bid receipt date.
Post-Award Phase: Submit substitution requests within 30 days after the Notice to Proceed.
Late Requests: Requests submitted after the deadline will only be considered under limited circumstances, such as product unavailability.
1.4 SUBMISSION REQUIREMENTS
Documentation: Submit digital copies of each request using standard forms (e.g., CSI Form 1.5C) along with detailed technical documentation.
Comparison: Provide a side-by-side comparison of the proposed substitution's attributes against the specified product.
Impact Statement: Include a detailed assessment outlining how the change affects the construction schedule, structural engineering, and coordination.
Cost Data: Detail any cost savings or credits due to the Owner, or any cost increases associated with modifying related work.
Certification: Contractor must explicitly certify that the proposed substitution will perform identically to or better than the specified product.
Additional Information: Architect may request additional information and documentation prior to rendering a decision. Provide this data in an expeditious manner.
1.5 ARCHITECT'S REVIEW
Action: The Architect will evaluate the request and issue a formal acceptance or rejection within 10 days.
Non-Approval: If the request is rejected, the Contractor must furnish the exact brands, models, and materials specified in the original documents.
Finality: The Architect's decision regarding the engineering equivalence and aesthetic match of a substitution is final. Accepted substitutions change the nature of the work of the project and must be documented with complete data substantiating compliance with contract documents.
PART 2 - PRODUCTS (Not Used)
PART 3 - EXECUTION (Not Used)

SECTION 01 30 00 - ADMINISTRATIVE REQUIREMENTS

PART 1 - GENERAL
1.1 SUMMARY
Section Includes: Administrative procedures for project startup, electronic data distribution, submittal logs, and coordination of special inspections.
1.2 ADMINISTRATIVE WORKFLOWS
Communications: Conduct all written project correspondence between the Contractor, Owner, and Architect through formalized administrative logs.
Point of Contact: Designate a single, dedicated project superintendent as the primary administrative authority on site.
1.3 ELECTRONIC DATA RELEASES
CAD/BIM Files: Architect will provide digital background files to the Contractor upon execution of a standard electronic data release form.
Use Limitations: Electronic files are for the sole purpose of preparing shop drawings and layout coordination. They do not replace paper contract prints.
1.4 MASTER SUBMITTAL LOG
Compilation: Generate a comprehensive, chronological list of all required submittals across all technical specification divisions.
Tracking: Maintain active tracking column headers for submittal numbers, description types, review dates, and current approval statuses.
PART 2 - PRODUCTS (Not Used)
PART 3 - EXECUTION
3.1 PROJECT STARTUP PROCEDURES
Permits: Verify that all local municipal building permits, environmental approvals, and utility authorizations are physically posted on-site.
Notice to Proceed: Initialize formal administrative tracking logs upon receiving the legal execution date of the Notice to Proceed.
3.2 SPECIAL INSPECTIONS COORDINATION
Scheduling: Provide a minimum of 48 hours advanced administrative notice to the Owner's independent testing agency before work requires testing.
Access: Ensure all testing engineers have clear, safe physical access to structural concrete pours, steel welds, and soil compaction zones.
3.3 CONFORMANCE AUDITS
Review: Review the ongoing status of all submittal workflows, field reports, and RFI logs weekly to prevent design or procurement delays.

SECTION 01 30 10 - MECHANICAL AND ELECTRICAL COORDINATION

PART 1 - GENERAL
1.1 SUMMARY
Work Included: Responsibility: unless otherwise indicated, all motors and controls for division 23 equipment shall be furnished, set in place, and wired in accordance with the following schedule:

ITEM	FURNISHED UNDER DIVISION	SET IN PLACE UNDER DIVISION	POWER WIRING UNDER DIVISION	CONTROL WIRING UNDER DIVISION
Equipment Motors	23	23	26	-
Starters / Contactors:				
Separate	23	26	26	23
Factory Mounted	23	23	26	23
Disconnect Switches	26	26	26	-
Thermal Overload Switches	26	26	26	-
Manual Operating Switches	26	26	26	
Control Relays	23	23	-	23
Control Transformers	23	26	26	23
Time Switches (Not In Control Panel)	23	23	26	23
Damper Motors	23	23	26	23
Control Circuit	26	26	26	-
Smoke Detectors (Including Fan Control Relays)	28	23	26	23
Equipment Interlocks	23	23	-	23

1.2 CONTROL WIRING
Consists of wiring in pilot circuits of contactors, starters, relays, etc., and wiring for valve and damper operators. For single phase devices where power current passes through controller, wiring between controller and device shall be considered control wiring; wiring to device from electrical panel shall be considered power wiring.
PART 2 - PRODUCTS (Not Used)
PART 3 - EXECUTION (Not Used)

SECTION 01 31 00 - PROJECT MANAGEMENT & COORDINATION

PART 1 - GENERAL
1.1 SUMMARY
Section Includes: Administrative provisions for coordinating construction operations, project meetings, and digital collaboration.
1.2 COORDINATION PROCEDURES
General: Coordinate construction operations included in different sections to ensure efficient and orderly installation of each part.
Administrative Procedures: Coordinate scheduling and timing of required administrative procedures to avoid conflicts and ensure orderly progress.
Conservation: Coordinate construction activities to ensure that operations are carried out with consideration given to conservation of energy, water, and materials.
1.3 PROJECT MEETINGS
Preconstruction Conference: Schedule and conduct a meeting at the project site before starting construction to review responsibilities and personnel assignments.
Progress Meetings: Conduct regular bi-weekly or weekly progress meetings to review log items, schedules, and delivery statuses.
Preinstallation Conferences: Conduct a conference at the project site before starting construction activities that require advanced coordination.
Minutes: Record and distribute meeting minutes to all attendees and interested parties within a set number of days after each meeting.
1.4 REQUESTS FOR INFORMATION (RFIs)
General: Immediately on discovery of the need for interpretation of the Contract Documents, prepare and submit an RFI.
Form: Submit RFIs digitally through the designated project management software using a standardized layout.
Content: Include a detailed description, drawing/specification references, and a proactive proposed solution with each inquiry.
Response Time: Allow a realistic turnaround window (10 working days) for the Architect's formal technical review.
1.5 DIGITAL PROJECT MANAGEMENT
Collaboration Software: Use the designated cloud-based software platform for all project communication, workflows, and document hosting.
User Licenses: Provide and maintain access privileges for the Owner, Architect, Commissioning Agent, and primary subcontractors.
PART 2 - PRODUCTS
2.1 COORDINATION DRAWINGS
BIM / CAD Models: Prepare integrated digital coordination models or 2D overlay drawings for high-density MEP areas.
Clash Detection: Identify and resolve physical structural interferences prior to fabricating materials or starting field installation.
PART 3 - EXECUTION
3.1 SITE LOGISTICS COORDINATION
Space Allocation: Assign specific site layout zones for material storage, staging, cranes, hoisting, and temporary field offices.
Subcontractor Control: Ensure all trade foremen verify dimensions, framing conditions, and rough-in locations before starting work.

SECTION 01 32 00 - CONSTRUCTION PROGRESS DOCUMENTATION

PART 1 - GENERAL
1.1 SUMMARY
Section Includes: Administrative and procedural requirements for documenting the progress of construction during performance of the Work.
1.2 SUBMITTALS
Construction Progress Schedule: Submit a comprehensive, fully developed master progress schedule within a fixed number of days after the Notice to Proceed.
Schedule Updates: Submit updated progress schedules concurrently with each monthly Application for Payment.
Daily Construction Reports: Submit electronic daily logs documenting site conditions, labor forces, and major equipment usage.
Material Delivery Logs: Maintain and submit a rolling log tracking procurement, fabrication, and delivery status of long-lead items.
1.3 COORDINATION
Milestones: Coordinate the Construction Progress Schedule with the Schedule of Values, submittal log, procurement schedule, and testing programs.
Phasing: Ensure scheduling dictates distinct, logical sequences for phased handovers, utility switchovers, and regulatory inspections.
PART 2 - PRODUCTS
2.1 SCHEDULING SOFTWARE
Format: Provide scheduling documentation using a high-utility, industry-standard Critical Path Method (CPM) software platform.
2.2 CONSTRUCTION PROGRESS SCHEDULE (CPM SCHEDULE)
Logic: Establish a fully networked mathematical model using the Precedence Diagramming Method (PDM) to calculate the critical path.
Activity Duration: Define breakdown tasks with realistic durations, generally restricted between 1 and 20 working days.
Milestones: Include definitive project checkpoints such as structural top-out, building dry-in, temporary power hookup, and substantial completion.
Constraints: Explicitly document work limitations, local climate variances, holiday shutdowns, and planned utility outages.
2.3 DOCUMENTATION REPORTS
Daily Logs: Record weather metrics, count of active workers by trade, equipment on-site, safety incidents, and material deliveries.
Field Condition Reports: Detail any unforeseen physical conditions, structural interferences, or field delays immediately upon discovery.
PART 3 - EXECUTION
3.1 SCHEDULE UPDATING
Evaluation: Revise the schedule network diagram monthly to reflect actual physical progress, logic changes, and sequence adjustments.
Narrative: Accompany each update with a concise written summary outlining major changes, critical path shifts, and corrective recovery steps.
3.2 CONSTRUCTION PHOTOGRAPHS
Preconstruction Record: Take comprehensive digital photos of the site and adjacent properties before starting any physical work.
Periodic Images: Take high-resolution progress photographs weekly from fixed, identical vantage points around the perimeter.
Final Record: Provide a detailed set of interior and exterior photos highlighting finished conditions upon substantial completion.

SECTION 01 33 00 - SUBMITTAL PROCEDURES

PART 1 - GENERAL
1.1 SUMMARY
Section Includes: Administrative and procedural requirements for processing product data, shop drawings, physical samples, and quality certificates.
1.2 DEFINITIONS
Action Submittals: Written and graphic information that requires the Architect's responsive log action and formal approval stamp.
Informational Submittals: Technical logs and reports that do not require an active response, but are reviewed to confirm design compliance.
1.3 SUBMITTAL SCHEDULE
Procurement Master: Submit a comprehensive, chronological submittal register within a fixed number of days following the contract award.
Coordination: Align submittal dates with long-lead manufacturing lead times, fabrication cycles, and the master CPM construction schedule.
1.4 CONTRACTOR'S REVIEW
Verification: Review and stamp every submittal package to verify physical field dimensions, structural clearances, and product compatibility.
Rejection: Return deficient or incomplete subcontractor shop packages directly to the trade without forwarding them to the design team.
PART 2 - PRODUCTS
2.1 SUBMITTAL ADMINISTRATIVE FORMAT
Digital Packages: Assemble all administrative product data and shop drawing files into clear, text-searchable PDF documents.
Transmittal Forms: Accompany every submittal package with a standardized digital sheet tracking project names, section numbers, and dates.
2.2 ACTION SUBMITTALS
Product Data: Collect manufacturer brochures, performance charts, wiring diagrams, and installation guides. Highlight exact models used.
Shop Drawings: Prepare detailed, custom scalable CAD or BIM-derived drawings showing fabrication details, fastening methods, and interfaces.
Physical Samples: Provide physical pieces of materials showing full color ranges, textures, and finishes for visual design selection.
2.3 INFORMATIONAL SUBMITTALS
Certificates: Submit certified testing data confirming material properties meet the specified structural and fire standards.
Test Reports: Provide formal documentation detailing successful field tests, balance logs, and independent laboratory inspections.
PART 3 - EXECUTION
3.1 SUBMITTAL PROCESSING
Digital Routing: Upload all electronic submittal packages directly to the designated cloud-based project management system.
Lead Time: Allow 10 working days for the Architect's comprehensive technical review.
3.2 ARCHITECT'S REVIEW AND ACTION STAMPS
No Exceptions: Contractor may proceed with ordering, fabrication, and field installation of the reviewed materials.
Approved as Noted: Contractor may proceed with work, provided all written corrections and clarifications are fully integrated.
Revise and Resubmit: Contractor must correct errors, adjust configurations, and re-route a clean package for fresh review. Do not install.

SECTION 01 40 00 - QUALITY REQUIREMENTS

PART 1 - GENERAL
1.1 SUMMARY
Section Includes: Administrative and procedural requirements for quality assurance, quality control, field testing, and mockups.
1.2 DEFINITIONS
Quality Assurance (QA): Services, procedures, and qualifications established prior to construction to ensure the work matches contract standards.
Quality Control (QC): Physical actions, testing, and inspections performed during and after installation to verify the work complies with requirements.
Testing Agency: An independent entity engaged to perform specific inspections, sampling, and laboratory testing of materials.
1.3 SUBMITTALS
Quality Control Plan: Submit a comprehensive QC plan outlining specific tracking procedures, inspection schedules, and responsible authorities.
Testing Agency Qualifications: Submit credentials certifying that the independent testing firm meets ASTM inspection standards.
Test Reports: Submit digital copies of field inspection logs and laboratory test results directly to the Architect within 48 hours of testing.
1.4 QUALITY ASSURANCE REQUIREMENTS
Qualifications: Ensure fabricators, installers, and testing technicians possess verified professional certifications and a documented history of similar work.
Licenses: Maintain all required municipal and state trade licenses for specialized technical systems on the job site.
PART 2 - PRODUCTS
2.1 MOCKUPS
Integrated Mockups: Construct full-size, physical exterior wall assemblies on-site to demonstrate the intersection of waterproofing, framing, and finishes.
Review: Obtain the Architect's formal visual and performance approval of mockups before ordering bulk project materials.
Destructive Testing: Perform mandatory field water-penetration and air-infiltration testing on mockups to verify building envelope integrity.
Retention: Maintain approved mockups in an undamaged condition during construction to serve as the baseline quality standard for the project.
PART 3 - EXECUTION
3.1 TEST AND INSPECTION LOGISTICS
Access: Provide safe, unrestricted access to the site, scaffolding, and fabrication shops for the Owner's independent testing engineers.
Notification: Notify the testing agency and the Architect at least 48 hours in advance of any structural pours, welds, or wall-concealment steps.
Storage: Provide secure, weather-protected storage boxes on-site for concrete test cylinders and material samples.
3.2 REMEDIAL WORK AND RE-TESTING
Non-Conformance: Remove, replace, or repair any work that fails field testing or does not meet the specified tolerances.
Cost Liability: Pay all costs associated with re-testing and inspecting corrected work that initially failed to meet specifications.

SECTION 01 42 16 - DEFINITIONS

PART 1 - GENERAL
1.1 SUMMARY
Section Includes: Basic definitions, abbreviations, acronyms, and terminology used throughout the contract documents.
1.2 SPECIFICATION TERMINOLOGY
Indicated: Graphic details, notes, or schedules on drawings, or specific items referenced in the text of the project manual.
Approved: Handled via the Architect's formal stamp indicating technical review completion. This does not release the Contractor from basic contract duties.
Directed: Instructions, demands, and choices issued directly by the Architect or Owner to resolve design or field variables.
Selected: Visual selections of colors, textures, patterns, and profiles made by the Architect from manufacturer sample palettes.
Furnish: Procure, purchase, deliver, receive, and safely store products at the project site, ready for final field installation.
Install: Anchor, wire, connect, fasten, adjust, clean, and finish products into their final, permanent structural position.
Provide: Universal command meaning to both "furnish" and "install" the specified material, complete and ready for its intended use.
1.3 PROJECT RESPONSIBILITY ROLES
Architect: The registered design professional of record responsible for creating and interpreting the contract documents.
Contractor: The primary licensed entity bound by the prime contract to execute the physical construction work on-site.
Subcontractor: A specialized trade contractor bound to the primary Contractor to perform discrete elements of the work.
Installer: The specific entity, trade worker, or technician assigned to perform the physical installation of a product.
Testing Agency: An independent, certified laboratory entity engaged to perform specified inspections, sampling, and field tests.
1.4 MATERIAL CONDITIONS
Experienced: A firm or individual with a documented history of executing similar projects with identical scope and materials.
Project Site: The designated physical property boundaries where construction operations, deliveries, and staging are authorized.
Cutting and Patching: Physical demolition and repair required to integrate new components with existing or adjacent finishes.
PART 2 - PRODUCTS (Not Used)
PART 3 - EXECUTION (Not Used)

SECTION 01 42 19 - REFERENCE STANDARDS

PART 1 - GENERAL
1.1 SUMMARY
Section Includes: Administrative requirements governing the use of industry standards, regulatory codes, and institutional publications cited throughout the contract documents.
1.2 QUALITY ASSURANCE
Applicability of Standards: Standards referenced in individual specification sections have the same force and effect as if printed directly into the project manual.
Publication Date: Unless explicitly indicated otherwise, look to the specific edition of the standard current as of the official date of the contract documents.
Conflicts: In the event of a conflict between a referenced standard and the contract drawings, the more stringent requirement or higher quality standard governs.
Contractual Alterations: Referenced codes do not alter the primary legal relationships, duties, or responsibilities established between the Owner, Contractor, and Architect.
1.3 COPIES OF STANDARDS
Availability: Keep copies of major code publications and referenced construction standards accessible at the field office for routine quality audits.
Distribution: Obtain standards directly from the respective publishing organizations. The Architect will not provide third-party code documents.
1.4 REGULATORY REQUIREMENTS
Building Code Compliance: Ensure all material procurement, assembly methods, and structural tolerances conform to the current adopted local building code.
Accessibility Guidelines: Strictly adhere to the Americans with Disabilities Act Accessibility Guidelines (ADAAG) alongside local barrier-free design rules.
1.5 SUMMARY OF REFERENCE STANDARDS
City Ordinances - City Building/Development Ordinances, Property/Streets Ordinances, and Administration Ordinances.
ICC (IFC) - International Fire Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.
NFPA 101 - Life Safety Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.
ICC (IBC) - International Building Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.
ICC (IPC) - International Plumbing Code; Most Recent Edition Adopted by Authority Having Jurisdiction.
ICC (IMC) - International Mechanical Code; Most Recent Edition Adopted by Authority Having Jurisdiction.
ICC (IFGC) - International Fuel Gas Code; Most Recent Edition Adopted by Authority Having Jurisdiction.
NFPA 70 (NEC) - National Electrical Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.
ICC (IECC) - International Energy Conservation Code; Most Recent Edition Adopted by Authority Having Jurisdiction.
ICC (IEBC) - ICC International Existing Building Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.
ICC A117.1, 2017 Accessible and Usable Buildings and Facilities.
PART 2 - PRODUCTS (Not Used)
PART 3 - EXECUTION (Not Used)

SECTION 01 50 00 - TEMPORARY FACILITIES & CONTROLS

PART 1 - GENERAL
1.1 SUMMARY
Section Includes: Temporary utilities, construction support facilities, security infrastructure, and environmental barrier controls.
1.2 USE CHARGES
Water and Power: Owner will provide access to existing main utility lines. Contractor must install sub-meters and pay all usage costs during construction.
Sewer and Waste: Contractor must pay all fees for hookups, legal dumping, and regular maintenance of site facilities.
1.3 SUBMITTALS
Site Logistics Plan: Scale drawing showing exact placements of trailers, cranes, security fences, material staging zones, and parking.
Utility Implementation Plan: Details for routing temporary water, electrical paths, and localized building heat networks.
1.4 QUALITY ASSURANCE
Regulations: Comply with all local municipal utility rules, health department safety orders, and OSHA worker-protection mandates.
PART 2 - PRODUCTS
2.1 MATERIALS AND EQUIPMENT
Perimeter Fencing: 6-foot-high, heavy-gauge chain-link fence panels fitted with privacy wind screen fabric and lockable vehicle gates.
Field Offices: Weather-tight, insulated mobile trailers equipped with electrical service, heating, air conditioning, and high-speed internet.
Temporary Heat: Clean-burning propane or electric forced-air heaters. Direct-fired unvented oil heaters are strictly prohibited inside structures.
PART 3 - EXECUTION
3.1 TEMPORARY UTILITY INSTALLATION
Electrical Service: Install a dedicated distribution panel, temporary job lighting, and GFCI-protected outlets for power tool chargers.
Sanitation: Provide clean, regularly serviced chemical toilets and mobile hand-washing stations across active work zones.
Water Service: Run insulated pipes to provide potable drinking water and dedicated wash-down hoses for masonry or concrete tooling.
3.2 SUPPORT FACILITIES INSTALLATION
Access Roads: Lay down crushed aggregate beds over high-traffic site routes to support heavy concrete trucks and delivery flatbeds.
Waste Disposal: Position large metal roll-off dumpsters near structural zones. Schedule routine swaps to prevent overflow hazards.
Signage: Post bright, weatherproof regulatory warning signs, OSHA safety notices, and directional maps at the main entry gates.
3.3 SECURITY AND PROTECTION FACILITIES
Environmental Controls: Install geotextile silt fences, fabric catch-basin inserts, and rock tracking pads to prevent soil erosion.
Barricades: Erect physical wood handrails and toe-boards around floor openings, elevator shafts, and open deep-trench excavations.
Pest Control: Maintain clean site grounds free of food trash to proactively eliminate rodent attraction and insect issues.
3.4 REMOVAL AND CLEANUP
Demobilization: Dismantle all temporary utilities, pull up gravel access roads, and patch utility tie-in holes at substantial completion.
Restoration: Grade, topsoil, and seed all staging areas damaged by trailers or heavy equipment to match final landscaping views.

SECTION 01 60 00 - PRODUCT REQUIREMENTS

PART 1 - GENERAL
1.1 SUMMARY
Section Includes: Administrative and procedural criteria for selecting, procuring, packaging, delivering, storing, and handling materials used on the project.
1.2 DEFINITIONS
Products: New items, materials, systems, and equipment specified for incorporation into the Work. This excludes temporary tools or machinery.
Named Products: Items identified by manufacturer product name, model number, or catalog designation in the specification sheets.
1.3 PRODUCT DELIVERY, STORAGE, AND HANDLING
Transport: Deliver materials in original, unopened manufacturer packaging with intact, legible hazard labels and identification tags.
Scheduling: Coordinate deliveries to prevent spatial site congestion, protecting freshly completed installations from transit damage.
On-Site Storage: Store weather-sensitive materials inside climate-controlled field structures or elevated on pallets with waterproof tarps.
Inspections: Examine incoming materials immediately to confirm quantity, check for transit damage, and verify code compliance markings.
1.4 WARRANTIES
Standard: Provide the manufacturer's uniform commercial product warranty formatted directly for the Owner's registration.
Special: Compile unique, extended-duration warranties (e.g., 20-year roof membrane) matching individual section specifications.
PART 2 - PRODUCTS
2.1 PRODUCT SELECTION PROCEDURES
Single Product: Where a single manufacturer and model is named, provide that specific product. No substitutions are permitted.
Two or More Products: Where multiple brands are named, select and provide any one of the specified products that matches engineering constraints.
Or Equal Options: Where a product is named followed by "or equal," submit a formal substitution request to prove technical equivalence.
Performance Specs: Select any product matching the exact physical attributes, chemical compositions, and independent test ratings listed.
Visual Selection: Where finishes are labeled "as selected by Architect," provide samples matching the dimensional color charts.
2.2 MATERIAL COMPLIANCE AND ENVIRONMENT
Damaged Goods: Use of used, refurbished, salvaged, or structurally compromised products is strictly prohibited.
Chemical Rules: Provide adhesives, sealants, paints, and coatings that comply with local VOC content limit laws.
PART 3 - EXECUTION
3.1 PRODUCT INSTALLATION
Instructions: Install all products in strict compliance with the manufacturer's latest written step-by-step instructions.
Conflicts: Secure formal clarification from the Architect if project drawing details conflict with manufacturer installation guidelines.
Tools: Use specific installation tools, fasteners, torque settings, and techniques recommended by the equipment fabricator.

SECTION 01 61 16 - VOLATILE ORGANIC COMPOUND (VOC) CONTENT RESTRICTIONS

PART 1 - GENERAL
1.1 SUMMARY
Section Includes: Administrative and regulatory performance constraints on the Volatile Organic Compound (VOC) content emitted by materials installed within the building interior.
1.2 DEFINITIONS
Interior of Building: All interior spaces located safely inside the primary continuous exterior weather barrier of the structure.
VOC-Restricted Products: Material categories applied or installed on-site, including interior paints, coatings, sealants, joint primers, and floor-covering adhesives.
1.3 REFERENCES
SCAQMD Rule 1113: South Coast Air Quality Management District architectural coatings limits.
SCAQMD Rule 1168: South Coast Air Quality Management District adhesive and sealant application limits.
40 CFR 59 Subpart D: EPA National volatile organic compound emission standards for architectural coatings.
1.4 SUBMITTALS
Product Data: Submit manufacturer technical data sheets or Safety Data Sheets (SDS) explicitly stating the VOC content in grams per liter (g/L) for all liquid-applied products.
Compliance Certification: Provide written statements signed by the material installers confirming that all structural adhesives, paints, and sealants meet the specified regulatory chemical limits.
PART 2 - PRODUCTS
2.1 MATERIAL PERFORMANCE REQUIREMENTS
Adhesives and Sealants: Provide flooring, drywall, and structural adhesives complying with the strict threshold limits established in the SCAQMD Rule 1168 guideline matrix.
Paints and Interior Coatings: Provide field-applied wall primers, undercoaters, wood stains, and topcoats conforming directly to SCAQMD Rule 1113 standards.
Low-Emitting Flooring: Ensure all carpets, resilient floor tiles, wood composites, and underlayments match the safety criteria verified by CDPH Section 01350 evaluation testing.
PART 3 - EXECUTION
3.1 FIELD QUALITY CONTROL AND MANAGEMENT
Ventilation: Operate temporary HVAC systems during application and curing phases to safely flush chemical odors out of the building.
Storage: Keep all paint buckets, liquid resin drums, and solvent-moistened rags sealed tight inside dedicated, non-absorbent safety containers.
Remedial Action: Remove and replace any installed materials that fail independent laboratory air inspections or exceed local emission laws at no additional cost to the Owner.

SECTION 01 74 19 - CONSTRUCTION WASTE MANAGEMENT & DISPOSAL

PART 1 - GENERAL
1.1 SUMMARY
Section Includes: Administrative and procedural requirements for diverting non-hazardous construction, demolition, and land-clearing waste from landfills.
1.2 DEFINITIONS
Construction Waste: Building and site improvement materials and other solid waste resulting from construction, remodeling, renovation, or repair operations.
Demolition Waste: Building and site improvement materials resulting from demolition or selective demolition operations.
Disposal: Removal of waste materials to an authorized landfill or reclamation facility.
Recycle: Recovery of waste materials for processing into new raw materials or products.
Reuse: Recovery of waste materials for direct use on-site or relocation to other construction projects without reprocessing.
1.3 PERFORMANCE REQUIREMENTS
Diversion Target: Divert a minimum 50% by weight of total non-hazardous construction and demolition waste from landfills.
Practice: Establish a continuous program of salvage, reuse, and recycling to maximize material diversion.
1.4 SUBMITTALS
Waste Management Plan: Submit a detailed plan within 15 days after the Notice to Proceed, outlining diversion methods, handling procedures, and targeted recycling facilities.
PART 2 - PRODUCTS (Not Used)
PART 3 - EXECUTION
3.1 PLAN IMPLEMENTATION
Manager: Designate an on-site construction waste management coordinator responsible for overseeing compliance and training subcontractors.
Instruction: Review the waste management plan objectives with all trade foremen during initial preconstruction and weekly safety meetings.
3.2 SURFACE HANDLING AND SORTING
Source Separation: Provide dedicated, clearly labeled roll-off dumpsters for distinct recyclable materials (e.g., concrete, wood, metal, clean gypsum board).
Co-Mingled Recycling: Where space constraints prevent source separation, contract with a licensed single-stream recycling processor that provides certified weight sorting summaries.
Contamination Control: Secure recycling containers against unauthorized public dumping and keep them free of food waste and organic trash.
3.3 MATERIAL SPECIFICS
Concrete and Masonry: Crush and break up clean mineral waste on-site for use as temporary road base or fill, or transport it to a local aggregate recycler.
Wood Material: Set aside clean dimensional lumber for bracing or blocking. Send scrap wood to a chipping facility for mulch or biomass fuel.
Metals: Separate structural steel, rebar, copper piping, and aluminum framing into dedicated bins for scrap metal salvage returns.
3.4 DISPOSAL OF WASTE
Legality: Transport all non-recyclable waste materials off-site legally and dump them at licensed, municipal-approved landfills.
Prohibitions: Burning, burying, or dumping construction waste, trash, or chemical debris on the project site is strictly prohibited.

SECTION 01 77 00 - CLOSEOUT PROCEDURES

PART 1 - GENERAL
1.1 SUMMARY
Section Includes: Administrative and procedural requirements for project closeout, including punch list generation, substantial completion, and final contract payment.
1.2 SUBSTANTIAL COMPLETION
Definition: The stage in the progress of the Work when the structure or designated portion is sufficiently complete for the Owner to legally and safely occupy it for its intended use.
Contractor Inspection: Conduct a thorough internal inspection and generate a detailed punch list of items to be completed or corrected before requesting the Architect's review.
Architect Review Request: Submit a formal written request for a Substantial Completion inspection along with the initial contractor punch list and all required municipal certificates of occupancy.
Certificate Issuance: If the Architect agrees the work is ready, they will issue a Certificate of Substantial Completion defining the official handover date and timeline for final fixes.
1.3 FINAL COMPLETION AND PAYMENT
1. **Review Request**: Submit a written notice stating that all punch list items have been fully corrected, cleaned, and approved upon completing all outstanding tasks.
2. **Re-Inspection Fees**: Architect will perform one initial inspection and one follow-up punch list verification. Cost of additional inspections due to incomplete work will be billed directly to the Contractor.
3. **Documentation**: Provide all executed warranties, final lien waivers from all subcontractors, and clearance certificates before applying for final payment.

PART 2 - PRODUCTS (Not Used)
PART 3 - EXECUTION
3.1 FINAL CLEANING
General: Clean the entire project site, yard, and grounds to a professional, move-in ready condition prior to the Substantial Completion inspection.
Interior Work: Wash window glass, remove temporary labels, vacuum carpets, damp-mop hard surfaces, polish metal finishes, and replace dirty HVAC filters.
Exterior Work: Sweep paved driveways, remove construction debris from lawns, wash exterior glass, and clear out all subterranean drainage pits or gutters.
3.2 DEMOBILIZATION
Site Cleardown: Remove all temporary construction fencing, job trailers, storage containers, tools, and surplus materials from the property.
Utility Disconnect: Terminate temporary construction power, water, and waste hookups, restoring service lines to their final design state.

SECTION 01 78 23 - OPERATION & MAINTENANCE DATA

PART 1 - GENERAL
1.1 SUMMARY
Section Includes: Administrative and procedural rules for compiling, organizing, and submitting operation and maintenance (O&M) manuals.
1.2 SUBMITTALS
Draft Manuals: Submit a preliminary digital draft of the O&M manuals for review when the project reaches approximately 75 percent completion.
Final Manuals: Submit the corrected, fully compiled final O&M manuals prior to the date scheduled for substantial completion.
Updates: Revise manuals immediately to incorporate changes noted during equipment commissioning and operator training sessions.
1.3 COORDINATION
Source Material: Compile operational data from approved product submittals, manufacturing specifications, and training program materials.
Systems Covered: Ensure manual data covers all mechanical, electrical, plumbing, life-safety, and specialized architectural systems.
PART 2 - PRODUCTS
2.1 MANUAL FORMAT AND ORGANIZATION
Digital Format: Provide text-searchable, high-resolution PDF files with interactive electronic bookmarks matching the table of contents.
Directory Structure: Group files by MasterFormat division numbers and specific equipment tags or asset identification codes.
Content Divisions: Divide data into separate, distinct manuals for emergency procedures, operation metrics, and maintenance guidelines.
2.2 EMERGENCY MANUALS
Procedures: Document safe emergency shutdown protocols, manual override operations, and hazard containment steps.
Contacts: List local utility companies, prime subcontractors, and individual equipment manufacturer service representatives.
2.3 OPERATION MANUALS
Performance Limits: Document regulatory operating data, environmental thresholds, and equipment engineering limits.
Controls: Provide simplified wiring diagrams, control schematics, valve tags, and sequences of operation.
2.4 MAINTENANCE MANUALS
Schedules: Detail daily, weekly, monthly, and seasonal preventative maintenance tasks and routine calibration frequencies.
Parts Lists: Provide exploded parts diagrams, unique part numbers, and a directory of local material suppliers.
Warranties: Bind copy sheets of product warranties, bonds, and service contracts alongside the equipment data.
PART 3 - EXECUTION
3.1 MANUAL PREPARATION
Validation: Verify that all technical instructions match the exact models, options, and features physically installed on-site.
Omissions: Cross out or delete non-applicable generic manufacturer text, product variations, or extra project configurations.
3.2 DATA DELIVERY AND TRAINING
Handovers: Upload the finalized electronic files to the designated project cloud platform.
Field Use: Use the finalized O&M text as the base curriculum during maintenance staff training.

SECTION 01 78 39 - PROJECT RECORD DOCUMENTS

PART 1 - GENERAL
1.1 SUMMARY
1. **Section Includes**: Administrative and procedural rules for compiling, maintaining, and submitting final project record documents.

1.2 SUBMITTALS
Final Record Documents: Submit a complete, structured set of compiled record drawings and project files at closeout.
Timing: Deliver all record documentation to the Architect before requesting the final inspection for contract payment.
1.3 RECORD DRAWINGS (AS-BUILTS)
Maintenance: Maintain one clean, dedicated set of contract drawings and shop drawings on-site solely for recording field changes.
Marking: Log field variations immediately in red ink or via real-time digital markup tools upon physical installation.
Content: Document actual structural footings, exact utility routing depths, concealed rough-ins, and all formally approved design modifications.
1.4 RECORD SPECIFICATIONS
Marking: Mark up the project specification manual to reflect the exact product brands, models, and variant choices installed.
Details: Note approved substitution details and specific product options selected for every section.
1.5 RECORD PRODUCT DATA AND MISCELLANEOUS SUBMITTALS
Data Sheets: Compile and organize final approved product submittals, data sheets, and structural calculations.
Logs: Include final material test reports, structural concrete break logs, and municipal inspection certificates.
PART 2 - PRODUCTS
2.1 RECORD FILE FORMATS
Digital Prints: Provide text-searchable, high-resolution PDF files organized logically by engineering discipline.
CAD / BIM Source: Deliver updated, native source files reflecting verified as-built conditions where requested.
PART 3 - EXECUTION
3.1 RECORDING AND MAINTENANCE
On-Site Availability: Keep active record sets accessible in the field trailer for routine quality audits by the Architect.
Prohibitions: Do not conceal any structural work or underground utility line until field dimensions are completely recorded.
3.2 FINAL CONVERSION AND TRANSFER
Assembly: Clear all temporary annotations and convert field markups into clean, uniform digital record drawings.
Transfer: Upload the finalized electronic documentation files directly to the designated project management platform.

SECTION 03 30 00 - CAST-IN-PLACE CONCRETE

Part 1: General
Scope: Work includes formwork, steel reinforcement, vapor retarders, concrete materials, mixing, placing, finishing, and curing.
Reference Standards: All work must comply with American Concrete Institute (ACI 301), ASTM International standards, and local building codes.
Submittals: Requires contractor submission of design mixes, material certificates (cement, aggregates, admixtures), and shop drawings for reinforcement and formwork.
Part 2: Products
Concrete Materials:
Portland Cement: ASTM C150 , Type I, II, or III.
Aggregates: ASTM C33 for normal weight aggregates (well-graded sand and gravel/crushed stone).
Water: Potable and free of deleterious materials.
Admixtures:
Air-Entraining: ASTM C260 for freeze-thaw durability.
Water-Reducing / Superplasticizers: ASTM C494 to achieve workability without excess water.
Related Materials:
Formwork: Plywood, metal, or other approved materials.
Reinforcement: Deformed steel bars (ASTM A615) and welded wire fabric.
Vapor Retarder: Low-permeance membrane (ASTM E1745) placed under interior slabs-on-grade.
Part 3: Execution
Formwork: Must be designed, braced, and coated with form-release agents to support concrete loads and produce clean surfaces.
Reinforcement: Clean, accurately placed, and securely tied to prevent displacement during concrete pouring.
Placing: Concrete must be conveyed, placed (no free fall exceeding 3 feet), and consolidated using mechanical vibrators to prevent segregation and honeycombing.
Finishing:
Slabs: Options include troweled, floated, or broom finishes depending on the intended use.
Formed Surfaces: Tie holes patched, and fins or rough spots rubbed down immediately after form removal.
Curing: Continuous curing (wet curing, ponding, or membrane-forming curing compound) for a minimum of 7 days to prevent rapid moisture loss and ensure maximum design strength.

SECTION 06 10 00 - ROUGH CARPENTRY

Part 1: General Requirements
Work Included: Furnishing and installing structural framing, subflooring, wall and roof sheathing, wood blocking, furring, and rough hardware.
Quality Assurance: All lumber must be grade-marked by agencies certified by the American Lumber Standards Committee (ALSC). Compliance with the International Building Code (ICC) or local building codes is mandatory.
Delivery & Storage: Store all materials under cover, kept dry, and stacked with air circulation to prevent warping or mold.
Part 2: Materials
Dimension Lumber: Typically used for wall framing, floor joists, and roof rafters. Must meet specific moisture content limits (usually 15% to 19% maximum). Species such as Douglas Fir-Larch or Spruce-Pine-Fir are standard depending on local structural requirements.
Engineered Lumber: Includes Laminated Veneer Lumber (LVL), I-joists, and glue-laminated beams for high-load, long-span applications.
Sheathing & Underlayment: Oriented Strand Board (OSB) or Structural I plywood for roof, wall, and subfloor applications. APA (Engineered Wood Association) rated panels are universally required.
Treated Wood: Preservative-treated lumber (e.g., ACQ or MCA) for sill plates, or any wood in contact with masonry, concrete, or moisture. Fire-Retardant-Treated (FRT) wood used in specific code-required wall assemblies.
Rough Hardware: Framing anchors, joist hangers, hurricane ties, bolts, washers, and nails. Fasteners must be galvanized or stainless steel for exterior use or when used in treated lumber.
Part 3: Execution & Installation
Framing Standards: Erect framing plumb, level, and securely fastened to required lines. Provide continuous bearing for sills.
Blocking & Backing: Install wood blocking and nailers for the attachment of drywall, cabinets, plumbing fixtures, and exterior trim.
Sheathing Installation: Fasten roof, wall, and subfloor sheathing with specified nail sizes and spacing. Leave appropriate expansion gaps between panel edges as recommended by APA guidelines.
Field Quality Control: Frame inspections must be conducted and approved by local building authorities or structural engineers prior to closing in walls (installing insulation/drywall).

SECTION 06 17 53 - SHOP-FABRICATED WOOD TRUSSES

Part 1: General
Scope: Design, fabrication, and erection of pre-engineered, metal-plate-connected wood trusses (both roof and floor trusses).
Quality Assurance: Trusses must comply with ANSI/TPI 1. Fabricators must be certified and employ experienced personnel.
Submittals: Truss design drawings and complete calculations stamped by a Professional Engineer (PE) registered in the project's state.
Delivery & Storage: Trusses must be handled, hoisted, and stored in a manner that prevents out-of-plane bending and lateral strain.
Part 2: Products
Lumber: Graded dimension lumber. Must be properly dried to a maximum moisture content (typically ≤ 19%) to prevent warping.
Metal Connector Plates: Manufactured from galvanized steel (ASTM A653), sized according to truss engineering requirements to securely join chords and webs.
Fasteners & Anchors: Hangers, framing anchors, and bolts required to permanently secure trusses to the top plates and bearing walls.
Part 3: Execution
Design Loads: Specified uniformly distributed and concentrated loads (live, dead, snow, wind, and seismic loads). Deflection limitations must adhere to code standards (e.g., Roof vertical deflection is usually limited to L ÷ 360).
Fabrication: Factory conditions must utilize precision cutting, jigging, and pressing equipment in strict accordance with engineered drawings. Loose connector plates are unacceptable.
Installation & Bracing: Trusses must be set level, plumb, and properly spaced. Strict adherence to temporary and permanent bracing plans (such as BCSI guidelines) is mandatory to prevent structural collapse during construction.
Field Modifications: Truss members and metal plates must not be cut, drilled, or altered without written approval from the project's Structural Engineer of Record.

SECTION 06 20 00 - FINISH CARPENTRY

Part 1: General Requirements
Scope: Supply and installation of interior and exterior finish carpentry, millwork, standing/running trim, and custom casework.
Quality Assurance: Work shall conform to the Architectural Woodwork Institute (AWI) standards for Premium, Custom, or Economy grades.
Submittals:
Shop drawings detailing profiles, dimensions, and attachment methods.
Material samples for wood species, stains, and finishes.
Delivery & Storage: Maintain conditioned environment (relative humidity between 25% and 55%) before and after delivery to prevent wood movement.
Part 2: Materials
Lumber: Kiln-dried to project-specific moisture content (e.g., 6% to 9% for interiors). Free of warp, twist, and surface defects.
Softwood & Hardwood Species: Specify species (e.g., Poplar for paint, Red Oak, Maple, or Cherry for stain).
Sheet Materials: Medium Density Fiberboard (MDF), high-density particle board, and hardwood plywoods (FSC-certified where applicable).
Fasteners & Adhesives: Non-corrosive finish nails, wood screws, and PVA/polyurethane glues.
Part 3: Scope of Work (Execution)
Standing & Running Trim:
Baseboards, crown molding, chair rails, and casing.
Install in maximum available lengths; stagger and scarf joints. Miter corners and cope returns to ensure tight-fitting joints.
Door & Window Installation:
Install passage doors, frames, and hardware. Plumb, level, and shim doors with a tolerance of 1/8 inch in 8 feet.
Trim casing with precise, flush mitered joints.
Architectural Casework & Shelving:
Custom cabinetry, wall paneling, and built-in shelving.
Secure to structural blocking. Scribe to adjacent irregular surfaces (floors/walls) for a gapless fit.
Stairs & Balustrades: Installation of treads, risers, handrails, balusters, and skirt boards.
Part 4: Tolerances & Finishes
Aesthetic Tolerances: Field joints shall not exceed specified gap and flushness variations based on the chosen quality grade (e.g., gap limit of 0.4 mm for Premium grade).
Finishing: Sand exposed surfaces smooth to remove mill marks. Apply primer for painted surfaces; sand between coats. Apply sealers, stains, and lacquers/polyurethane for natural wood.

SECTION 06 41 00 - ARCHITECTURAL WOOD CASEWORK

PART 1 — GENERAL
1.1 Summary
Products Supplied: Custom-fabricated wood-veneer cabinets, plastic-laminate-clad cabinets, open shelving, and finish hardware.
Related Sections: Field finishing (Section 09 91 00), wood paneling, countertops, and in-wall backing blocking.
1.2 Reference Standards
Quality Benchmarks: Comply with ANSI/AWI 0641 Architectural Wood Casework Standard or the North American Architectural Woodwork Standards (NAAWS).
Core Certification: Materials must align with the AWI 300 Materials Standard.
1.3 Submittals
Shop Drawings: Detailed elevations, plans, assembly joints, fastening details, and utility cutouts.
Physical Samples: Wood veneer flitches, edgebandings, laminates, and functional hardware.
1.4 Quality Assurance
Fabricator Qualifications: Certified participant in the AWI Quality Certification Program (QCP).
Aesthetic Grade: Define standard level (**Premium**, **Custom**, or **Economy**).
Performance Levels: Specify structural duty requirements via laboratory testing models (**Duty Level 1** to **Duty Level 4**).
PART 2 — PRODUCTS
2.1 Materials
Hardwood Lumber: Selected species, clear-graded, moisture-stabilized to 4%–9%.
Wood Veneer: Plain sliced or quarter-sliced flitches, matched vertically per unit.
Panel Cores: Industrial-grade particleboard or Medium Density MDF compliant with ANSI A208.2.
2.2 Cabinet Design and Construction
Construction Type: Frameless (Type A) or Face-Frame (Type B) at fabricator option.
Cabinet Style: Flush overlay, reveal overlay, or inset lip profile.
Interior Surfaces: Defined clearly by surface category requirements.
Exposed: Matching wood veneer or high-pressure laminate.
Semi-Exposed: Thermally-Fused Melamine (TFL) or pre-finished maple liner.
Concealed: Unfaced industrial core or balancing backers.
2.3 Hardware
Hinges: Concealed European style, 110 or 170-degree self-closing.
Drawer Slides: Full-extension ball bearing, zinc-plated, load rated to 100 lbs minimum.
Pulls & Supports: Wire or tab pulls; steel pin double-pin type adjustable shelf supports.
PART 3 — EXECUTION
3.1 Coordination
Site Verification: Verify framing backing, wall plumbing, and electrical rough-ins.
Climate Control: Condition ambient workspace relative humidity between 25%–55% prior to installation.
3.2 Installation
Precision Placement: Fasten cases plumb, level, and square using concealed anchors.
Wall Scribing: Cut and fit perimeter joints tightly to adjacent wall finishes, limit gaps to 1/32 inch max.
3.3 Adjusting and Cleaning
Hardware Calibration: Adjust doors and drawer fronts for uniform reveal gaps.
Final Cleanup: Clean wood surfaces of fabrication marks, dust, and debris.

SECTION 06 41 11 - COUNTERTOP SUPPORT BRACKETS

PART 1 - GENERAL
1.1 Summary
Section Includes: Heavy-duty structural steel or aluminum brackets for cantilevered countertop overhangs.
Related Sections: Section 06 10 00 - Rough Carpentry (Wall framing backing), Section 06 20 00 - Finish Carpentry, Section 12 36 00 - Countertops.
1.2 References
AWI / WMMPA: Architectural Woodwork Standards (AWS).
ASTM A36: Standard Specification for Carbon Structural Steel.
ASTM A240: Standard Specification for Chromium and Chromium-Nickel Stainless Steel.
1.3 Submittals
Product Data: Manufacturer's technical data sheets including load capacities and dimensions.
Shop Drawings: Detailed drawings showing spacing, fastings, and integration with casework studs.
1.4 Quality Assurance
Fabricator Qualifications: ISO 9001 certified manufacturing facility.
Load Requirements: Brackets must support a minimum concentrated load of 250 lbs at the outermost cantilevered edge.
PART 2 - PRODUCTS
2.1 Manufacturers
Acceptable Brands: Subject to compliance with project requirements, provide products from vendors such as Rakks / Rangine Corporation, Federal Brace, or Original Granite Bracket.
2.2 Materials & Components
Bracket Profiles: Provide heavy-duty Hidden Flat Brackets for knee/pony walls or Front-Mount L-Brackets for direct wall-stud structural mounting.
Metal Composition: Cold-rolled structural carbon steel (ASTM A36) or 304 Stainless Steel.
Thickness: Minimum structural thickness of 1/4 inch (0.25 inches) to prevent deflecting or sagging.
Width: 2-1/2 inch or 2 inch wide mounting flange.
Size: Bracket length must extend across at least two-thirds (2/3) of the total countertop overhang depth. Terminate brackets exactly 3 inches back from the finished countertop edge to remain hidden.
Finish: Factory-applied powder-coated black, white, or architectural primer ready for field paint.
2.3 Fasteners
Type: High-strength countersunk wood screws or 1/4-inch lag bolts.
Finish: Matching structural bracket finish material.
PART 3 - EXECUTION
3.1 Examination
Field Verification: Verify structural backing or double studs are properly positioned inside the wall cavity before starting setup.
3.2 Installation
Wall Preparation: Rout or chisel top plate channels exactly 1/4 inch deep to flush-mount flat brackets level with surrounding wood framing.
Spacing Hierarchy:
Granite / Quartz: Space brackets a maximum of 16 inches apart on center.
Solid Surface: Space brackets a maximum of 24 inches apart on center.
Edge Setback: Position the outermost brackets within 4 to 6 inches of the finished countertop ends.
Attachment: Secure each piece using all engineered fastener holes provided by the manufacturer.
3.3 Tolerances
Leveling: Max variation of 1/16 inch across a consecutive 10-foot run. Use structural shims where required.

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CET	CET

Sheet Title:
SPECIFICATIONS

Sheet Number:
G-700

SECTION 07 2100 - THERMAL INSULATION

PART 1 - GENERAL
1.1 SECTION INCLUDES
- **Blanket and batt insulation** (fiberglass).
- **Rigid board insulation** (extruded polystyrene [XPS], polyisocyanurate [polyiso]).
- **Spray polyurethane foam (SPF)** insulation.
- **Vapor retarders** and accessories directly underlying insulation.

1.2 RELATED REQUIREMENTS
- **Section 03 3000** - Cast-in-Place Concrete: For underslab insulation requirements.
- **Section 06 1000** - Rough Carpentry: For framed wall and ceiling cavities.
- **Section 07 2700** - Air Barriers: For coordination with the building envelope.

1.3 REFERENCES & PERFORMANCE REQUIREMENTS
- **ASTM C578** - Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation.
- **ASTM E84** - Standard Test Method for Surface Burning Characteristics of Building Materials.
- **Energy Compliance** - Meet or exceed ASHRAE 90.1 and the International Energy Conservation Code (IECC).
- **Fire Performance** - Flame-spread index of **25 or less**, smoke-developed index of **450 or less** per ASTM E84.

1.4 SUBMITTALS
- **Product Data** - Manufacturer technical sheets and R-value verifications.
- **Samples** - 12-inch square pieces of each rigid and blanket insulation type.

1.5 DELIVERY, STORAGE, AND HANDLING
- **Moisture Protection** - Keep materials indoors, dry, off the ground, and safe from weather.
- **UV Protection** - Protect plastic foam insulation from direct sunlight exposure.

PART 2 - PRODUCTS
2.1 MANUFACTURERS
- **Acceptable Brands** - Subject to project requirements, utilize industry staples like Owens Corning, Johns Manville, or Dow Chemical.

2.2 INSULATION MATERIALS
- **Glass-Fiber Batts** - Unfaced or faced, pre-formed to fit standard framing spaces.
- **Extruded Polystyrene (XPS) Board** - Unfaced, high-density board (minimum 25 psi compressive strength).
- **Polyisocyanurate (Polyiso) Board** - Foil-faced or glass-fiber mat faced for continuous exterior insulation.
- **Spray Polyurethane Foam (SPF)** - Closed-cell foam, minimum 1.5 lb/cu. ft. density.

2.3 ACCESSORIES
- **Mechanical Fasteners** - Impaling pins, insulation anchors, and washers compatible with substrates.
- **Adhesives** - Low-VOC formulations recommended by the insulation manufacturer.
- **Vapor Retarder Tape** - High-density pressure-sensitive tape for sealing sheet joints.

PART 3 - EXECUTION
3.1 EXAMINATION
- **Substrate Check** - Verify framing, plumbing, and electrical rough-ins are inspected and complete.
- **Dryness** - Ensure substrates are completely dry and free of ice, oil, or debris.

3.2 INSTALLATION
- **General Placement** - Fit insulation tightly around obstructions, filling all voids without over-compressing batts.
- **Continuous Insulation (CI)** - Stagger joints in multi-layer board installations to eliminate thermal bridging.
- **Mechanical Anchoring** - Space pins and clips according to manufacturer wind-load and weight instructions.
- **Vapor Retarder Sealing** - Lap edges at least 6 inches and seal flat to maintain air/vapor barrier integrity.

3.3 CLEANING AND PROTECTION
- **Protection** - Cover exposed insulation before weather exposure or construction traffic damages it.
- **Replacement** - Remove and replace any insulation that becomes wet, soiled, or structurally damaged.

SECTION 07 2500 - WEATHER BARRIERS

PART 1 - GENERAL
1.1 SECTION INCLUDES
- **Building wrap** (weather-resistive barrier/WRB) sheet materials.
- **Fluid-applied air and water barriers** (vapor-permeable or vapor-impermeable).
- **Self-adhering sheet membranes** (flashing and transition membranes).
- **Seam tapes, primers, and sealants** required for a continuous barrier system.

1.2 RELATED REQUIREMENTS
- **Section 06 1600** - Sheathing: For the substrate receiving the weather barrier.
- **Section 07 2100** - Thermal Insulation: For coordination with exterior insulation layers.
- **Section 07 6200** - Sheet Metal Flashing and Trim: For integration with window and door flashings.

1.3 REFERENCES & PERFORMANCE REQUIREMENTS
- **ASTM E2178** - Standard Test Method for Air Permeance of Building Materials.
- **ASTM E2357** - Standard Test Method for Determining Air Leakage of Air Barrier Assemblies.
- **AATCC 127** - Water Resistance: Hydrostatic Pressure Test.
- **Air Permeance** - Maximum assembly leakage of **0.04 cfm/sq. ft.** under 1.57 lbf/sq. ft. per ASTM E2357.
- **UV Exposure** - Product must resist degradation from UV exposure for a minimum of 120 days prior to cladding installation.

1.4 SUBMITTALS
- **Product Data** - Manufacturer specifications, installation guides, and component compatibility charts.
- **Shop Drawings** - Detailed drawings showing terminations, transitions, penetrations, and corner flashings.
- **Certifications** - Air Barrier Association of America (ABAA) evaluated material/assembly certification.

1.5 QUALITY ASSURANCE & MOCK-UPS
- **Pre-Installation Meeting** - Review substrate preparation, flashing sequencing, and penetration details.
- **Mock-Up** - Construct a 100 sq. ft. exterior wall mock-up including a window frame, penetrations, and transitions to verify installation sequencing.

PART 2 - PRODUCTS
2.1 MANUFACTURERS
- **Acceptable Brands** - Subject to project performance requirements, utilize industry systems like DuPont Tyvek, Henry Company, Henry Blueskin, or PROSOCO.

2.2 MEMBRANE MATERIALS
- **Fluid-Applied Membrane** - Single-component, polymer-modified, vapor-permeable, or vapor-impermeable coating.
- **Mechanically Fastened Sheet** - High-density polyethylene spunbonded olefin sheet (e.g., Tyvek CommercialWrap).
- **Self-Adhering Sheet** - SBS-modified bitumen or butyl-based membrane with a polyethylene carrier film.

2.3 ACCESSORIES
- **Flashing Membrane** - Self-adhering flexible flashing designed for window sills and rough openings.
- **Substrate Primer** - Low-VOC, manufacturer-approved primer for self-adhering membranes on masonry or concrete.
- **Seam Tape** - Pressure-sensitive acrylic tape recommended by the weather barrier manufacturer.
- **Joint Compound / Sealant** - Silyl-terminated polyether (STPE) or polyurethane sealant compatible with the membrane.

PART 3 - EXECUTION
3.1 EXAMINATION
- **Substrate Readiness** - Verify sheathing is securely fastened and joints are tight.
- **Surface Condition** - Ensure substrates are clean, smooth, dry, and free of oil, wax, or sharp protrusions.

3.2 PREPARATION
- **Joint Treatment** - Fill gaps in sheathing greater than 1/4 inch with compatible sealant or transition tape.
- **Priming** - Apply primer to masonry, concrete, and gypsum substrates where self-adhering membranes require it.

3.3 INSTALLATION
- **Fluid-Applied Membranes** - Apply via roller or spray to the specified wet mil thickness, ensuring uniform coverage without pinholes.
- **Sheet Membranes** - Install horizontally starting from the bottom of the wall. Lap upper sheets over lower sheets by a minimum of **6 inches**.
- **Seam Sealing** - Center seam tape over sheet joints and roll firmly with a hand roller to eliminate wrinkles.
- **Penetrations & Openings** - Flash all pipes, conduits, structural steel beams, and rough openings to create a continuous weather-tight seal.

3.4 FIELD QUALITY CONTROL
- **Inspection** - Inspect for tears, punctures, unsealed seams, or fishmouths before covering.

SECTION 07 3113 - ASPHALT SHINGLES

PART 1 – GENERAL
SECTION INCLUDES
- **Granule-surfaced asphalt shingles** (laminated architectural or designer style).
- **Underlayment** (asphalt-saturated felt or synthetic polymeric sheet).
- **Self-adhering ice and water protection** (eave/valley protection membranes).
- **Ridge vents** and attic ventilation components associated with the shingle roof.
- **Fasteners, flashings, and sealants** required for a complete watertight installation.

1.2 RELATED REQUIREMENTS
- **Section 06 1000** - Rough Carpentry: For roof deck sheathing substrates.
- **Section 07 2500** - Weather Barriers: For underlayment overlaps at sidewall intersections.
- **Section 07 6200** - Sheet Metal Flashing and Trim: For metal valleys, drip edges, and step flashings.
- **Section 07 7200** - Roof Accessories: For prefabricated pipe boots, crickets, and curbs.

1.3 REFERENCES & PERFORMANCE REQUIREMENTS
- **ASTM D3462** - Standard Specification for Asphalt Shingles Made from Glass Felt.
- **ASTM D3018** - Standard Specification for Class A Asphalt Shingles.
- **ASTM D1970** - Standard Specification for Self-Adhering Polymer Modified Bituminous Sheet Materials.
- **ASTM D8257** - Standard Specification for Mechanically Attached Polymeric Roof Underlayment.
- **Fire Resistance** - **Class A Fire Rating** tested in accordance with ASTM E108 / UL 790.
- **Wind Resistance** - **Class H Wind Resistance** (up to 150 mph) tested per ASTM D7158.

1.4 SUBMITTALS
- **Product Data** - Technical data sheets verifying material standards, fire/wind performance ratings, and installation instructions.
- **Samples** - Full-size shingle units demonstrating target profile, texture, and selected color.
- **Warranty** - Copy of the manufacturer's sample multi-year warranty showing coverage parameters.

1.5 DELIVERY, STORAGE, AND HANDLING
- **Storage Environment** - Store all shingle bundles flat on a level surface, off the ground, and fully shielded from weather.
- **Roll Goods** - Keep rolls of underlayment standing **upright on end** to avoid flattening or distortion.

PART 2 - PRODUCTS
2.1 MANUFACTURERS
- **Acceptable Brands** - Subject to local code and project approvals, use reputable roofing systems like GAF, Owens Corning, CertainTeed, Malarkey, or Atlas Roofing.

2.2 ROOFING MATERIALS
- **Asphalt Shingles** - Fiberglass-reinforced, laminated architectural shingles with self-sealing adhesive strips and algae-resistant granules.
- **Starter Shingles** - Pre-cut starter strips engineered with factory-applied adhesive along the bottom edge.
- **Hip and Ridge Shingles** - Pre-manufactured or field-folded cap shingles matching the main roof color.

2.3 UNDERLAYMENT & SHEET MATERIALS
- **Ice & Water Shield** - Self-adhering, rubberized-asphalt membrane with a slip-resistant top surface.
- **Field Underlayment** - High-performance synthetic polyolefin underlayment or minimum #30 asphalt-saturated felt.

2.4 ACCESSORIES
- **Fasteners** - Hot-dipped galvanized steel or aluminum roofing nails, minimum **11- or 12-gauge shank** with a **3/8-inch flat head**. No staples.
- **Asphalt Roof Cement** - Plastic roofing cement conforming to ASTM D4586, Type I or Type II.
- **Drip Edge / Metal Trim** - Minimum 26-gauge prefinished galvanized steel or 0.032-inch aluminum profile.

PART 3 - EXECUTION
3.1 EXAMINATION
- **Roof Deck Inspection** - Confirm the deck is completely flat, securely anchored, clean, and free of protruding fasteners.
- **Moisture Level** - Verify sheathing is thoroughly dry and has passed inspection before laying underlayment.

3.2 PREPARATION & UNDERLAYMENT INSTALLATION
- **Ice Barrier** - Apply self-adhering sheets along eaves, stretching at least **24 inches** past the inside face of the exterior wall. Lap valley lines similarly.
- **Drip Edge** - Apply metal drip edges flat over the wood deck at eaves, but install them over the underlayment at the rakes.
- **Field Underlayment** - Lap rows horizontally, starting from the lower eave. Maintain a minimum **4-inch horizontal lap** and **6-inch end lap**.
- ***Note:*** Double-layer the underlayment on low roofs sloping between **2:12 and 4:12**.

3.3 SHINGLE APPLICATION
- **Starter Strip** - Fasten the starter strip along eaves and rake edges, overhanging the drip edge by **1/4 to 3/4 inch**.
- **Main Field Shingles** - Apply in a stepped pattern following the manufacturer's target offset spacing. Maintain a standard **5-inch or 5-5/8-inch weather exposure**.
- **Fastening** - Use a minimum of **4 nails per shingle** for standard slopes, and increase to **6 nails** for high-wind zones or steep slopes. Drive nails straight into the designated nail line without crushing the shingle.
- **Valleys** - Form open valleys using sheet metal flashing or tightly weave closed-cut valleys according to regional layout standards.
- **Hips & Ridges** - Center cap shingles over joints, maintaining the required exposure and covering all structural fastener heads.

3.4 CLEANING AND PROTECTION
- **Debris Removal** - Sweep or blow down finished surfaces to clear stray loose granules, loose fasteners, or packaging wraps.
- **Magnet Sweep** - Run a magnetic bar sweep across the site grounds to gather dropped roof nails.

SECTION 07 4646 - MANUFACTURED SIDING (ENGINEERED WOOD)

PART 1 - GENERAL
1.1 SECTION INCLUDES
- **Engineered wood lap siding** (traditional horizontal lap or shake lap).
- **Engineered wood panel siding** (vertical panels, smooth or wood-grained).
- **Engineered wood trim, fascia, soffit, and vented soffit boards**.
- **Fasteners, flashings, joint treatments, and sealants** required for installation.

1.2 RELATED REQUIREMENTS
- **Section 06 1000** - Rough Carpentry: For wood framing, sheathing, and structural blocking.
- **Section 07 2500** - Weather Barriers: For building wraps and fluid-applied barriers.
- **Section 07 6200** - Sheet Metal Flashing and Trim: For drip edges, Z-flashings, and window caps.
- **Section 09 9113** - Exterior Painting: For field-applied topcoats.

1.3 REFERENCES & PERFORMANCE REQUIREMENTS
- **ASTM D02277** - Standard Specification for Fiberboard Nail-Base Sheathing.
- **APA-PR-N124** - APA Product Standard for Lap and Panel Siding.
- **Wind Resistance** - Must withstand design wind pressures up to 150 mph or as dictated by local structural codes.
- **Substrate Treatment** - Substrate wood fibers must be treated with zinc borate throughout the composite core to resist fungal decay and termites.

1.4 SUBMITTALS
- **Product Data** - Manufacturer specifications, warranty details, and preparation guides.
- **Samples** - Minimum 12-inch long pieces of lap siding and trim boards showcasing the texture (e.g., cedar-look vs. smooth) and chosen color.
- **Certifications** - Sustainable forestry documentation (e.g., SFI or FSC) and ICC-ES evaluation reports.

1.5 DELIVERY, STORAGE, AND HANDLING
- **Storage Environment** - Store siding flat on pallets, completely off the ground, under a breathable waterproof cover. Do not store materials upright.
- **Acclimatization** - Allow siding to adjust to local atmospheric conditions on-site for **24 to 48 hours** prior to application.

PART 2 - PRODUCTS
2.1 MANUFACTURERS
- **Acceptable Brands** - Utilize composite systems such as LP SmartSide or other approved engineered wood manufacturers.

2.2 MATERIALS
- **Lap Siding** - Treated engineered wood substrate with a resin-impregnated paint overlay. Profiles include standard lap, shake lap, nickel-gap, or self-aligning styles.
- **Panel Siding** - Engineered wood vertical panels, with or without shiplap edges and decorative grooves (vertical board-and-batten look).
- **Trim and Fascia** - Matching engineered wood composite boards, available in matching thicknesses and textures.

2.3 ACCESSORIES
- **Fasteners** - Hot-dipped galvanized or stainless steel siding nails. Use a minimum **0.113-inch shank diameter** with a **0.270-inch head diameter**. Nails must be long enough to penetrate structural framing by at least **1.5 inches**. No staples.
- **Joint Flashings** - Preformed aluminum or heavy-duty plastic joint covers, or flashing pans for horizontal panel seams.
- **Sealant** - High-performance, non-hardening exterior grade sealant (polyurethane or polymer-based) compatible with engineered wood substrates.

PART 3 - EXECUTION
3.1 EXAMINATION
- **Substrate Check** - Confirm the building wrap/WRB and flashings are fully taped and validated.
- **Alignment** - Verify sheathing surfaces are flat and framing studs are straight within **1/4 inch over 10 feet**.

3.2 PREPARATION
- **Layout Plan** - Establish level starter baselines and snap chalk lines to ensure consistent, true horizontal rows.
- **Cut-Edge Sealing** - Crucial step. Apply 100% acrylic latex primer/paint to **all field-cut edges** before nailing boards into place. Do not leave raw composite exposed.

3.3 INSTALLATION
- **Clearances** - Maintain a minimum **6-inch clearance** between the bottom edge of the siding and finished earth grade. Maintain a **1-inch clearance** above roofs, decks, and patios.
- **Lap Siding Layout** - Provide a minimum **1-inch overlap** between rows. Blind-nail through the top factory-marked nail line, driving fasteners straight and flush without crushing the board surface.
- **Expansion Gaps** - Leave a **3/16-inch expansion gap** at all butt joints and where siding meets trim, window frames, or corner boards. Fill gaps with specified sealant unless manufacturer-approved joint covers are used.
- **Panel Installation** - Center vertical panel edges over studs. Do not force joints together; leave the required expansion space between panels.

3.4 CLEANING AND FINISHING
- **Field Painting** - If using non-pre-finished product, apply a high-quality 100% acrylic latex exterior paint topcoat within **180 days** of installation.
- **Touch-Up** - Dab manufacturer-approved touch-up paint over any visible or exposed nail heads and minor scuffs.

SECTION 07 6200 - SHEET METAL FLASHING AND TRIM

PART 1 - GENERAL
1.1 SECTION INCLUDES
- **Roof drainage flashing** and trim (scuppers, valleys, drip edges).
- **Wall and window flashing** (sill flashing, head flashing, through-wall flashing).
- **Copings, fascias, and gravel stops**.
- **Counterflashings and reglets**.
- **Miscellaneous custom sheet metal fabrications**.

1.2 RELATED REQUIREMENTS
- **Section 06 1000** - Rough Carpentry: For wood blocking, nailers, and curbs.
- **Section 07 2500** - Weather Barriers: For building wraps integrating with window flashings.
- **Section 07 3113** - Asphalt Shingles: For flashing integration at valleys and walls.
- **Section 07 5000** - Membrane Roofing: For integration with low-slope roof membranes.
- **Section 07 9200** - Joint Sealants: For sealants used in flashing joints and reglets.

1.3 REFERENCES & PERFORMANCE REQUIREMENTS
- **SMACNA Manual** - Architectural Sheet Metal Manual (latest edition for fabrication details).
- **SPRI/ANSI ES-1** - Wind Design Standard for Edge Systems Used with Low Slope Roofing Systems.
- **ASTM A653** - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) by the Hot-Dip Process.
- **ASTM B32** - Standard Specification for Solder Metal.
- **Thermal Movement** - Design assemblies to withstand expansion and contraction from a **100°F ambient temperature range** without buckling or sealant failure.

1.4 SUBMITTALS
- **Product Data** - Material descriptions, finishes, and technical sheets.
- **Shop Drawings** - Full scale or dimensioned details showing layouts, profile shapes, thickness, seam types, dimensions, and attachment methods.
- **Certifications** - ANSI/SPRI ES-1 validation for roof edge and coping profiles.

1.5 DELIVERY, STORAGE, AND HANDLING
- **Surface Protection** - Store sheet metal components with protective plastic films intact to prevent scratches.
- **Moisture Protection** - Store materials off the ground, under a breathable cover, on a slight slope to prevent water pooling and nesting stains.

PART 2 - PRODUCTS
2.1 SHEET METAL MATERIALS
- **Aluminum** - ASTM B209, alloy and temper matching target fabrication; minimum **0.032-inch** or **0.040-inch** thickness.
- **Galvanized Steel** - ASTM A653, G90 hot-dip zinc coating; minimum **24-gauge** or **22-gauge** thickness.
- **Stainless Steel** - ASTM A240, Type 304 or Type 316 (coastal locations); minimum **26-gauge**, 2B smooth finish.
- **Copper** - ASTM B370, cold-rolled; **16 oz./sq. ft.** or **20 oz./sq. ft.** thickness.

2.2 FINISHES
- **Fluoropolymer Coating** - High-performance factory-applied Kynar 500/Hylar 5000 (70% PVDF resin) matching project color schedule.
- **Mill Finish** - Natural unfinished aluminum or steel for concealed flashing elements.

2.3 ACCESSORIES
- **Fasteners** - Screws or nails matching the metal type of the flashing to prevent galvanic corrosion (stainless steel fasteners with stainless or aluminum flashing).
- **Underlayment** - Self-adhering high-temperature rubberized asphalt membrane, minimum 40 mils thick.
- **Solder** - ASTM B32, lead-free alloy compositions for zinc, copper, or stainless steel flashings.
- **Cleats & Continuous Hooks** - Same material as flashing, typically **one gauge thicker** than the matching flashing profile.

PART 3 - EXECUTION
3.1 EXAMINATION
- **Substrate Readiness** - Confirm wood blocking, nailers, and adjacent roof/wall membranes are securely placed and true to plane.
- **Cleanliness** - Surfaces must be clean, smooth, dry, and free of protruding fasteners.

3.2 FABRICATION (SHOP & FIELD)
- **SMACNA Compliance** - Fabricate all corners, joints, and hems to match standards outlined in the **SMACNA Architectural Sheet Metal Manual**.
- **Hems** - Form a minimum 1/2-inch wide hem on all exposed sharp edges of sheet metal.
- **Seams** - Form interlocking or locked seams for all waterproofing transitions. Solder joints where fully watertight, rigid configurations are required.

3.3 INSTALLATION
- **Underlayment** - Install a layer of slip-sheet or self-adhering underlayment membrane beneath all metal flashings over wood substrates.
- **Cleat Anchoring** - Fasten continuous cleats and perimeter hooks securely at maximum **6 inches on center** before hooking the fascia or coping into place.
- **Thermal Expansion Gaps** - Provide a **1/4-inch expansion gap** between flashing lengths. Cover joints with layout-matched splice plates or internal backup plates.
- **Galvanic Isolation** - Apply a bituminous coating or isolating tape where dissimilar metals risk physical contact (e.g., copper touching galvanized steel).

3.4 CLEANING AND PROTECTION
- **Protective Film** - Peel away all plastic masking films immediately after installing each flashing item.
- **Cleanup** - Sweep away stray fasteners, metal shavings, and leftover solder flux. Clean all smudges or hand prints using manufacturer-approved cleaners.

SECTION 07 7123 - MANUFACTURED GUTTERS

PART 1 - GENERAL
1.1 SECTION INCLUDES
- **Preformed manufactured gutters** (seamless K-style, box, or half-round profiles).
- **Preformed downspouts** (rain leaders) and elbows.
- **Hangers, brackets, anchors, and fasteners**.
- **Splash blocks** and downspout boots.
- **Gutter guards** or leaf screens.

1.2 RELATED REQUIREMENTS
- **Section 06 1000** - Rough Carpentry: For wood fascia boards and framing support.
- **Section 07 6200** - Sheet Metal Flashing and Trim: For integration with roof drip edges and flashings.
- **Section 07 3113** - Asphalt Shingles: For roofing material interface at the eave.
- **Division 33** - Utilities: For connection of downspouts to underground storm drainage systems.

1.3 REFERENCES & PERFORMANCE REQUIREMENTS
- **SMACNA Manual** - Architectural Sheet Metal Manual (for gutter sizing and reinforcement details).
- **ASTM B209** - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate.
- **ASTM A653** - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) by the Hot-Dip Process.
- **Structural Integrity** - Hangers and brackets must support the weight of gutters when fully filled with water, plus ice/snow loads common to the region.
- **Thermal Movement** - Provide expansion joints to allow gutters to expand and contract freely across a **100°F ambient temperature range** without buckling or tearing joints.

1.4 SUBMITTALS
- **Product Data** - Technical descriptions of profiles, dimensions, component capacities, finishes, and accessories.
- **Shop Drawings** - Layout drawings indicating gutter lengths, slopes, downspout locations, expansion joints, and specific mounting bracket details.
- **Samples** - 12-inch long sections of the specified gutter and downspout showing profile, material thickness, and factory finish color.

1.5 DELIVERY, STORAGE, AND HANDLING
- **Protection** - Keep prefinished components wrapped in protective film or packaging until installation to avoid scratching.
- **Storage** - Store all components off the ground, under cover, on a flat surface to prevent warping, denting, or water pooling.

PART 2 - PRODUCTS
2.1 MATERIALS & PROFILES
- **Aluminum** - Pre-painted, continuous roll-formed or extruded aluminum sheet; minimum **0.032-inch** thickness (heavy-duty residential/commercial).
- **Galvanized Steel** - Hot-dip zinc-coated steel sheet, G90 rating; minimum **24-gauge** thickness.
- **Copper** - Cold-rolled copper sheet, ASTM B370; minimum **16 oz./sq. ft.** thickness.
- **Gutter Profile** - **K-Style (Ogee)** in **5-inch** size.
- **Downspout Profile** - **Rectangular corrugated** in a matching material and finish.

2.2 FINISHES
- **Factory Finish** - High-performance fluoropolymer (70% PVDF Kynar resin) or baked-on silicone polyester enamel coating. Color to match architectural elevations.
- **Natural Finish** - Unfinished copper (to develop a natural patina) or mill-finish aluminum/galvanized steel if fully concealed.

2.3 ACCESSORIES
- **Hangers & Brackets** - Heavy-duty internal hidden spikes/screws or external wrap-around brackets matching the gutter material. *Note: Do not use steel hangers with aluminum or copper gutters to avoid galvanic corrosion.*
- **End Caps, Miters, and Outlets** - Prefabricated matching components from the primary gutter manufacturer.
- **Joint Sealant** - High-performance single-component polyurethane or tripolymer sealant recommended by the manufacturer for permanent water-tight metal joints.
- **Leaf Guards** - Perforated aluminum screens or heavy-duty wire mesh inserts to prevent debris buildup.

PART 3 - EXECUTION
3.1 EXAMINATION
- **Fascia Inspection** - Verify that fascia boards, raker tails, and structural roof edges are plumb, secure, and completely rot-free.
- **Coordination** - Confirm roof drip edges are installed properly to redirect water directly into the center of the target gutter profile.

3.2 INSTALLATION
- **Slope & Alignment** - Slope gutters uniformly toward downspouts at a minimum rate of **1/16-inch per foot** (or 1 inch per 16 feet). Ensure no pooling areas exist.
- **Hanger Spacing** - Secure internal hangers or external brackets directly into structural framing (studs/rafters), spaced a maximum of **24 inches on center**. Reduce spacing to **18 inches on center** in high snow-load regions.
- **Seamless Field Fabrication** - Roll-form seamless gutter runs on-site wherever possible to minimize weak joint points.
- **Joint & End Cap Sealing** - Clean all lap joints, end caps, and drop outlets with solvent before applying a generous bead of joint sealant. Rivet or screw joints securely, ensuring fasteners are sealed over dynamically.
- **Expansion Joints** - Install factory expansion joints on continuous gutter runs exceeding **50 feet** in length.
- **Downspout Attachment** - Anchor downspouts securely to wall structures using matching wall straps spaced no more than **10 feet apart vertically**. Provide standard elbows at the base to direct water to splash blocks or storm drains.

3.3 CLEANING AND TESTING
- **Water-Drop Test** - Flush the entire gutter and downspout network with water upon completion to verify positive drainage and ensure zero joint leaks.
- **Debris Cleanup** - Remove all metal shavings, leftover rivets, drop-cloth sheets, and sealant smudges from the roofline and ground areas.

SECTION 07 8400 - FIRESTOPPING

PART 1 - GENERAL
1.1 SECTION INCLUDES
- **Penetration firestopping** systems in fire-resistance-rated walls, floors, and ceilings.
- **Joint firestopping** systems (e.g., wall-to-wall, wall-to-floor, head-of-wall joints).
- **Perimeter firecontainment** systems (voids between fire-rated floor slabs and non-rated exterior curtain walls).

1.2 RELATED REQUIREMENTS
- **Division 21, 22, & 23** - Fire Suppression, Plumbing, and HVAC: For firestopping around piping, ductwork, and mechanical dampers.
- **Division 26 & 27** - Electrical and Communications: For firestopping around cables, conduits, and cable trays.
- **Section 07 9200** - Joint Sealants: For standard non-fire-rated architectural joint sealants.

1.3 REFERENCES & PERFORMANCE REQUIREMENTS
- **UL 1479 / ASTM E814** - Standard Test Method for Fire Tests of Penetration Firestop Systems (F-Rating and T-Rating).
- **UL 2079 / ASTM E1966** - Standard Test Method for Fire Resistive Joint Systems.
- **ASTM E2307** - Standard Test Method for Determining Fire Resistance of Perimeter Fire Barriers.
- **System Listings** - All firestopping materials must belong to a tested, listed system published in the **UL Product iQ** or **Intertek Directory**.
- **Environmental / VOC** - Provide low-emitting materials conforming to local green building and VOC regulations.

1.4 SUBMITTALS
- **Product Data** - Technical sheets for each product type indicating material properties and installation limits.
- **System Drawings (Cut Sheets)** - Exact UL or Intertek system design numbers matching each type of penetration and joint condition on the project.
- **Installer Certification** - Proof that the installation firm is qualified or licensed by the firestopping manufacturer.

1.5 QUALITY ASSURANCE & COORDINATION
- **Single Source** - Obtain all firestopping products from a single manufacturer where possible to ensure component compatibility.
- **Pre-Installation Conference** - Convene with mechanical, electrical, plumbing, and structural trades to coordinate penetration layouts before inspection.

PART 2 - PRODUCTS
2.1 MANUFACTURERS
- **Acceptable Brands** - Subject to structural compatibility and testing compliance, utilize verified systems from industry leaders like Hilti, 3M Fire Protection Products, or Specified Technologies Inc. (STI).

2.2 FIRESTOPPING MATERIALS
- **Intumescent Sealants / Caulks** - Acrylic or silicone-based elastomeric caulks that expand when exposed to heat; designed for combustible/non-combustible pipes and cables.
- **Firestop Collars & Wrap Strips** - Factory-manufactured steel collars fitted with intumescent wrap strips to seal plastic or insulated pipes.
- **Firestop Pillows / Bricks** - Re-enterable, modular blocks for large openings or frequently changed cable trays.
- **Firestop Mortar** - Non-combustible, cementitious compound for sealing large openings in concrete floors and masonry walls.
- **Sprayable Firestop Joints** - Water-based elastomeric spray designed for rapid application across head-of-wall or curtain wall expansion joints.

2.3 ACCESSORIES
- **Forming / Backing Materials** - Non-combustible rock wool insulation (minimum 4 lb/cu. ft. density) or ceramic fiber blankets as required by specific UL designs.
- **Primers & Cleaners** - Manufacturer-approved cleaning solvents and primers compatible with substrate surfaces.

PART 3 - EXECUTION
3.1 EXAMINATION
- **Substrate Inspection** - Verify that all penetrating elements (conduits, pipes, ducts) are permanently anchored and complete.
- **Surface Condition** - Ensure substrate surfaces are clean, completely dry, and free of dirt, oil, loose scale, or frost.

3.2 PREPARATION
- **Surface Cleaning** - Clean substrates using method-specific primers or wire brushes to guarantee optimal adhesion.
- **Masking** - Apply masking tape to adjacent finished surfaces where neat, controlled joint lines are required. Remove tape immediately after tooling.

3.3 INSTALLATION
- **UL Design Compliance** - Install all backing materials and firestopping compounds in strict accordance with the designated **UL System design parameters** (e.g., correct depth, density, and annular space).
- **Tooling caulks** - Tool sealants immediately after application and before skinning to eliminate internal voids and ensure complete substrate contact.
- **Identification Labels** - Attach pre-printed plastic or metallic labels adjacent to each finished firestop location. Labels must list the installer's name, installation date, and specific **UL System Number**.

3.4 FIELD QUALITY CONTROL
- **Special Inspection** - Retain an independent testing agency to perform destructive and non-destructive inspections according to **ASTM E2174** (for penetrations) and **ASTM E2393** (for joints) if mandated by the local building code.
- **Deficiencies** - Immediately cut out and replace any firestopping installations that fail to meet listed system parameters or architectural depths.

SECTION 07 9200 - JOINT SEALANTS

PART 1 - GENERAL
1.1 SECTION INCLUDES
- **Exterior joint sealants** (expansion joints, window/door perimeters).
- **Interior joint sealants** (drywall perimeters, baseboards, trim).
- **Traffic-bearing joint sealants** (plazas, sidewalks, parking decks).
- **Joint backing materials**, primers, bond-breakers, and cleanup accessories.

1.2 RELATED REQUIREMENTS
- **Section 03 3000** - Cast-in-Place Concrete: For isolation joints and slab control joints.
- **Section 04 2000** - Unit Masonry: For masonry expansion joints and control joints.
- **Section 07 2500** - Weather Barriers: For flashing and barrier transition sealing.
- **Division 8** - Doors and Window Frames: For perimeter sealant boundaries.

1.3 REFERENCES & PERFORMANCE REQUIREMENTS
- **ASTM C920** - Standard Specification for Elastomeric Joint Sealants.
- **ASTM C834** - Standard Specification for Latex Joint Sealants.
- **ASTM C1193** - Standard Guide for Use of Joint Sealants.
- **ASTM C719** - Testing Adhesion and Cohesion under Cyclic Movement (Hockman Cycle).
- **VOC Compliance** - All materials must strictly comply with local environmental regulations (SCAQMD Rule 1168 limits).

1.4 SUBMITTALS
- **Product Data** - Manufacturer technical sheets confirming ASTM type, grade, class, and VOC content.
- **Color Selection** - Manufacturer's color charts showing standard and custom colors.
- **Compatibility Certificates** - Manufacturer letter stating sealants will not stain porous stone or fail when applied to indicated project substrates.

1.5 PROJECT CONDITIONS & WARRANTY
- **Temperature Limits** - Do not apply sealants when ambient or substrate temperatures drop below **40°F** or exceed **100°F**.
- **System Warranty** - Provide a manufacturer multi-year warranty (typically 5 to 20 years depending on formulation) covering adhesion and cohesion failure.

PART 2 - PRODUCTS
2.1 MANUFACTURERS
- **Acceptable Brands** - Subject to substrate testing, utilize formulations from systems like Dow Corning, Tremco, Sika, or Pecora.

2.2 JOINT SEALANT MATERIALS
- **General Purpose Exterior Sealant:** Polyurethane; ASTM C920, Grade NS, Class 25, Uses M, G, and A; single component. Use for: Control, expansion, and soft joints in masonry; Joints between concrete and other materials; Joints between metal frames and other materials; Under exterior door thresholds; Other exterior joints for which no other sealant is indicated.
- **General Purpose Interior Sealant:** Acrylic emulsion latex; ASTM C834, Type OP, Grade NF single component, paintable. Use for: Interior wall and ceiling control joints; Joints between door and window frames and wall surfaces; Other interior joints for which no other type of sealant is indicated.
- **Interior Floor Joint Sealant:** Polyurethane, self-leveling; ASTM C920, Grade P, Class 25, Uses T, M and A; single component for control and expansion joints in floors.
- **Concrete Paving Joint Sealant:** Polyurethane, self-leveling; ASTM C920, Class 25, Uses T, I, M and A; single component for joints in Portland cement concrete paving, walks, curbs, etc. and building face or other adjacent work
- **Butyl Sealant:** ASTM C1311; single component, solvent release, non-skinning, non-sagging for lap joints in exterior sheet metal work.
- **Nonsag Polyurethane Sealant:** ASTM C920, Grade NS, Class 25, Uses NT, I, M, A, G , O; single component, chemical curing, non-staining, non bleeding, capable of continuous water immersion, non-sagging type.
- **Sanitary Silicone Sealant:** ASTM C 920, Grade NS, Class 25, Uses NT, A, G, M ; single component, solvent curing, non-sagging, non-staining, mildew resistant, fungus resistant, non-bleeding.joints between plumbing fixtures and walls and floors, and between countertops and walls.

2.3 JOINT BACKING & ACCESSORIES
- **Backer Rod** - Cylindrical, flexible open-cell or closed-cell polyethylene foam. Sized **25% to 33% larger** than the joint width.
- **Bond-Breaker Tape** - Polyethylene or plastic pressure-sensitive adhesive tape to prevent three-sided adhesion in shallow joints.
- **Substrate Primer** - Non-staining, fast-curing sealer recommended by the sealant manufacturer for specific substrates (concrete or metal.

PART 3 - EXECUTION
3.1 EXAMINATION
- **Joint Soundness** - Confirm joint walls are structurally sound, concrete is fully cured (minimum 28 days), and surfaces are flat.
- **Cleanliness** - Ensure joint voids are entirely dry and clear of dust, curing compounds, rust, oil, or previous sealant debris.

3.2 PREPARATION
- **Surface Cleaning** - Clean non-porous surfaces via the "two-cloth solvent wipe" method. Wire-brush or sandblast porous masonry surfaces.
- **Priming** - Apply substrate primer to clean joint walls where mandated by manufacturer guidelines or field tests. Do not spill primer onto exposed faces.
- **Masking** - Protect adjacent architectural surfaces with masking tape to keep finish boundaries clean.

3.3 INSTALLATION
- **Backing Placement** - Install backer rod or bond-breaker tape to establish a proper width-to-depth shape factor (typically a **2:1 ratio**, with depth never less than 1/4 inch). Do not puncture backer rods.
- **Sealant Application** - Extrude sealant uniformly into the joint using professional gunning tools. Ensure complete void filling from the back forward.
- **Tooling** - Concave-tool sealants immediately after extrusion and before skin-formation. Force the compound tightly against joint walls to secure maximum wet adhesion. Do not use liquid soap or chemical lubricants during tooling.
- **Tape Removal** - Peel off masking tape immediately after tooling and before the sealer begins its initial cure.

3.4 CLEANING AND PROTECTION
- **Excess Cleanup** - Clean wet smudges and tools immediately using approved structural cleaners. Scrape cured overflows off non-porous faces carefully.
- **Protection** - Maintain temporary barriers over traffic joints until the underlying compound has completely cured.

SECTION 08 11 16 – EXTERIOR DOORS AND FRAMES

PART 1 – GENERAL
1.1 SUMMARY
- **Section Includes**: Prehung residential exterior steel and fiberglass doors, factory-assembled frames, weatherstripping, and thresholds.
- **Related Sections**:
  - Section 06 10 00 – Rough Carpentry (for wood framing and structural rough openings).
  - Section 07 92 00 – Joint Sealants (for perimeter caulking and flashing).
  - Section 08 71 00 – Door Hardware (for residential locksets and deadbolts).
  - Section 09 91 13 – Exterior Painting (for field-applied prime and topcoats).

1.2 REFERENCES
- **Structural Performance**: ASTM E330 (Structural Performance of Exterior Windows, Doors, and Curtain Walls).
- **Air/Water Infiltration**: ASTM E283 (Air Leakage) and ASTM E331 (Water Penetration).
- **Thermal Performance**: NFRC 100 (U-Factor) and NFRC 200 (Solar Heat Gain Coefficient).
- **Fire Performance**: NFPA 252 or UL 10C (Fire Tests of Door Assemblies) for garage-to-house applications.

1.3 SUBMITTALS
- **Product Data**: Manufacturer's technical data sheets including core insulation types, skin gauges, and structural ratings.
- **Shop Drawings**: Schedules indicating rough opening dimensions, door sizes, handing, glazing profiles, and hardware prep.
- **Certifications**: Energy Star qualification labels and NFRC thermal performance certificates.

1.4 QUALITY ASSURANCE
- **Source Quality**: Provide prehung door assemblies manufactured as an integrated, factory-tested system by a single brand.
- **Fire-Rated Assemblies**: Where required by code, assemblies must bear a permanent listing label (20-minute UL/Intertek).

1.5 DELIVERY, STORAGE, AND HANDLING
- **On-Site Storage**: Store assemblies vertically in a dry, ventilated area off the ground on flat wood dunnage.
- **Protection**: Keep protective plastic film on door skins and corner guards intact until installation is complete.

1.6 WARRANTY
- **Door Skins**: Manufacturer's limited lifetime warranty against cracking, splitting, rusting, or delamination.
- **Prehung Components**: 5-year mechanical warranty on factory-assembled frame, hinges, and threshold components.

PART 2 – PRODUCTS
2.1 MANUFACTURERS
- **Acceptable Brands**: Subject to compliance with project specifications, select from industry standard residential brands such as Therma-Tru Doors, Masonite International, or JELD-WEN Windows & Doors.

2.2 METAL DOOR SYSTEMS
- **Steel Door Skins**: Minimum 24-gauge, hot-dipped galvanized steel with a factory-applied baked-on primer coat.
- **Fiberglass Door Skins**: Minimum 0.080-inch compression-molded fiberglass with high-definition panel profiling.
- **Core Construction**: Fully insulated, high-density CFC-free polyurethane foam core injected into the door cavity.
- **Edge Construction**: Interlocking steel edges or composite/wood stiles and rails creating a thermal break.

2.3 FRAME AND PREHUNG COMPONENTS
- **Frame Materials**: Choose from rot-resistant primed wood, composite wood-plastic blends, or heavy-duty steel jambs.
- **Hinges**: Three 4x4-inch ball-bearing hinges, heavy-duty steel, finished to match selected project hardware.
- **Weatherstripping**: Compression-type foam or TPE kerf-inserted weatherstripping along jambs and header.
- **Sill/Threshold**: Extruded aluminum sill with an adjustable composite sweep and integrated thermal break.

2.4 FABRICATION
- **Factory Prehung**: System must be fully bored, routed, and assembled at the factory with weatherstripping pre-inserted.
- **Glazing (Optional)**: Factory-installed double-pane insulated safety glass with low-E coatings.

PART 3 – EXECUTION
3.1 EXAMINATION
- **Rough Openings**: Verify structural openings are plumb, square, level, and clear of debris or protruding fasteners.
- **Floor Level**: Ensure the subfloor is structurally sound and level across the width of the entry opening.

3.2 INSTALLATION
- **Flashing and Sill Pan**: Install a flexible flashing membrane and a rigid sill pan over the subfloor before setting the unit.
- **Setting the Frame**: Apply three continuous beads of high-grade construction sealant under the threshold before seating the door.
- **Plumb and Square**: Shim behind hinges and latch strikes to secure the frame perfectly vertical and square within the opening.
- **Fastening**: Drive heavy-duty structural fasteners through the shims and into the framing studs, hidden behind weatherstripping.

3.3 ADJUSTING AND CLEANING
- **Sweep Adjustment**: Adjust the threshold riser to compress tightly against the door bottom sweep without binding.
- **Operation**: Confirm smooth latching, deadbolt engagement, and continuous weatherstrip contact around the entire perimeter.
- **Final Cleanup**: Remove protective films, clean the glass, and touch up any minor primer scuffs prior to final painting.

SECTION 08 14 00 – WOOD DOORS

PART 1 – GENERAL
1.1 SUMMARY
- **Section Includes**: Solid-core flush wood doors, stile and rail wood doors, and factory-finished interior wood frames.
- **Related Sections**:
  - Section 06 20 00 – Finish Carpentry (for field-installed casings and trim).
  - Section 08 71 00 – Door Hardware (for locks, hinges, and latches).
  - Section 09 91 00 – Painting (for field-applied finishes).

1.2 REFERENCES
- **Quality Standards**: Architectural Woodwork Institute (AWI) / Architectural Woodwork Standards (AWS).
- **Testing Standards**: Window and Door Manufacturers Association (WDMA) I.S.1A.

1.3 SUBMITTALS
- **Product Data**: Technical sheets for each type of door, core construction, and frame style.
- **Shop Drawings**: Opening schedules indicating door sizes, fire ratings, swing directions, and hardware cutouts.
- **Samples**: 12x12-inch corner samples showing face veneer, core, edge construction, and factory finish.

1.4 QUALITY ASSURANCE
- **Manufacturer Qualifications**: Minimum 5 years of experience manufacturing certified premium-grade architectural doors.
- **Fire-Rated Assemblies**: Labeled and listed by an approved testing agency like Intertek/Warnock Hersey or UL.

1.5 DELIVERY, STORAGE, AND HANDLING
- **Climate Control**: Condition spaces to a relative humidity between 25% and 55% prior to delivery.
- **Stacking**: Store doors flat on a level surface, elevated at least 4 inches off the floor using non-metal skids.

1.6 WARRANTY
- **Interior Solid-Core Doors**: Lifetime warranty covering warping, twisting, or delamination.

PART 2 – PRODUCTS
2.1 MANUFACTURERS
- **Acceptable Brands**: Subject to compliance with project specifications, select from industry-standard manufacturers such as VT Industries, TruStile Doors, or Oshkosh Door Company.

2.2 DOOR CONSTRUCTION
- **Solid-Core Flush Doors**: 5-ply construction with a particleboard core (ANSI A208.1 Grade LD-1) or structural composite lumber (SCL) core.
- **Stile and Rail Doors**: Solid hardwood dowel or mortise-and-tenon construction with floating panels.
- **Face Veneers**: Hardwood veneer (e.g., Plain Sliced Select White Maple or Quarter Sawn Red Oak) matching AWI Premium Grade.
- **Adhesives**: Type I waterproof, formal-free bounding resins.

2.3 WOOD DOOR FRAMES
- **Materials**: Solid hardwood profile or veneered engineered wood blocks matching the door face species.
- **Thickness**: 3/4-inch minimum jamb thickness with integral or applied stops.

2.4 FABRICATION AND FINISHING
- **Factory Machining**: Prefit and factory-machine doors for all mortised hardware using hardware templates.
- **Factory Finishing**: AWI Finish System TR-6 (Catalyzed Polyurethane) or UV-curable acrylated polyurethane.

PART 3 – EXECUTION
3.1 EXAMINATION
- **Substrate Verification**: Verify wall frames are plumb, square, and true prior to hanging openings.
- **Acclimation**: Allow doors to condition to building equilibrium humidity for 48 hours before hanging.

3.2 INSTALLATION
- **Frames**: Securely anchor wood frames to rough structural openings every 16 inches using countersunk fasteners.
- **Doors**: Install plumb and level with a maximum uniform clearance of 1/8 inch at top/sides and 3/8 inch at the bottom.
- **Fire-Rated Assemblies**: Install in strict accordance with NFPA 80 guidelines.

3.3 ADJUSTING AND CLEANING
- **Operation**: Adjust door closers, latches, and hinges for a smooth, silent swing.
- **Protection**: Cover factory-finished face veneers with a protective cardboard or polyethylene wrap until substantial completion.

SECTION 08 32 13 – SLIDING GLASS DOORS

PART 1 – GENERAL
1.1 SUMMARY
- **Section Includes**: Exterior-grade sliding glass doors, including frames, operable panels, fixed panels, glass, insect screens, hardware, and weatherstripping.
- **Related Sections**:
  - Section 07 27 00 – Air Barriers (for tie-in to the building envelope).
  - Section 07 92 00 – Joint Sealants (for perimeter waterproofing).

1.2 REFERENCES
- **Performance Standards**: AAMA/WDMA/CSA 101/I.S.2/A440 (North American Fenestration Standard - NAFS).
- **Glazing Standards**: ASTM E1300 (Practice for Determining Load Resistance of Glass in Buildings) and CPSC 16 CFR 1201 (Safety Glazing).
- **Thermal Performance**: NFRC 100 (U-Factor Certification) and NFRC 200 (Solar Heat Gain Coefficient).
- **Structural/Water Testing**: ASTM E330 (Structural Performance), ASTM E283 (Air Leakage), and ASTM E331 (Water Penetration).

1.3 SUBMITTALS
- **Product Data**: Manufacturer's specifications, structural ratings, and NFRC energy performance labels.
- **Shop Drawings**: Elevation details, frame profiles, section views, anchoring schedules, and flashing details.
- **Certifications**: Independent laboratory test reports verifying compliance with NAFS performance grade (PG) requirements.

1.4 QUALITY ASSURANCE
- **Source Quality**: Furnish sliding doors, screens, glass, and hardware as a complete system from a single manufacturer.
- **Labeling**: Each unit must bear the AAMA/WDMA validation hallmark indicating structural and thermal compliance.

1.5 DELIVERY, STORAGE, AND HANDLING
- **On-Site Care**: Store units upright, off the ground, on wood dunnage in a clean, dry, protected location.
- **Handling**: Do not drag frames or panels; use vacuum glass lifters or padded slings for heavy units.

1.6 WARRANTY
- **Frame and Panel Structure**: 10-year commercial / limited lifetime residential warranty against structural defects.
- **Insulated Glass Unit**: 20-year warranty against seal failure or internal condensation.

PART 2 – PRODUCTS
2.1 MANUFACTURERS
- **Acceptable Brands**: Subject to compliance with project specifications, select from industry standard brands such as Marvin, Pella Corporation, Andersen Windows & Doors, or Western Window Systems.

2.2 FRAMES AND PANELS
- **Material Profiles**: Extruded aluminum (6063-T5 alloy) with an integrated polyurethane thermal break
- **Configurable Tracks**: Multi-track configurations to accommodate 2-panel, 3-panel, or 4-panel bypass layouts.

2.3 GLAZING
- **Insulated Glass Units (IGUs)**: Double or triple-pane 1-inch nominal thickness tempered safety glass.
- **Performance Coatings**: Low-E coating on surface #2.
- **Spacers**: Warm-edge insulating structural foam spacers.

2.4 HARDWARE AND ACCESSORIES
- **Rollers**: Tandem, adjustable, precision ball-bearing rollers made of stainless steel or heavy-duty nylon.
- **Locking Mechanism**: Multi-point locking system with an interior thumb-turn and exterior keyed cylinder.
- **Weatherstripping**: Dual-durometer compression seals and dense fin-seal pile weatherstripping along all interlocking stiles.
- **Insect Screens**: Extruded aluminum screen frames with charcoal fiberglass mesh and adjustable rollers.

PART 3 – EXECUTION
3.1 EXAMINATION
- **Rough Openings**: Verify that the framing is plumb, square, and completely level across the sill substrate.
- **Sill Condition**: Ensure the concrete or wood subfloor is free of deflections or crowning that would bind the tracks.

3.2 INSTALLATION
- **Sill Pan Flashing**: Install a rigid sill pan flashing with end dams and a rear leg before positioning the door frame.
- **Sealant Application**: Apply continuous beads of high-performance polyurethane sealant beneath the sill pan and frame flanges.
- **Anchoring**: Fasten the frame through pre-punched structural holes using screws driven into the structural header and jamb studs.
- **Panel Placement**: Insert operable panels, adjust tandem rollers until panels are level, and ensure full engagement with the latch strikes.

3.3 ADJUSTING AND CLEANING
- **Operation**: Adjust rollers to ensure single-finger gliding motion and seamless latching.
- **Perimeter Insulation**: Pack low-expansion polyurethane foam insulation around the interior perimeter gap of the frame.
- **Final Cleanup**: Clean glass surfaces with mild soap and remove all protective films from cladding surfaces.

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SECTION 08 36 13 – SECTIONAL OVERHEAD DOORS

PART 1 – GENERAL
1.1 SUMMARY
Section Includes: Residential sectional overhead garage doors, tracks, hardware, weatherstripping, torsion spring counterbalancing systems, and electric door operators.
Related Sections:
Section 06 10 00 – Rough Carpentry (for wood framing and perimeter buck installation).
Section 26 05 00 – Common Work Results for Electrical (for power supply connections to the operator).
1.2 REFERENCES
Design/Construction: DASMA 102 (Standard for Sectional Overhead Type Doors).
Wind Loads: ASTM E330 (Structural Performance of Exterior Doors by Uniform Static Air Pressure Difference) and ANSI/DASMA 108.
Safety: UL 325 (Standard for Door, Drapery, Gate, Louver, and Window Operators and Systems).
1.3 SUBMITTALS
Product Data: Manufacturer's specifications for door sections, insulation R-values, track configurations, and operators.
Shop Drawings: Framing requirements, clearance dimensions, track profiles, anchoring locations, and wind-load calculations.
Operation & Maintenance Data: Instructions for regular maintenance of springs, cables, rollers, and safety reverse testing.
1.4 QUALITY ASSURANCE
Manufacturer Qualifications: Company specializing in manufacturing sectional overhead doors with a minimum of 5 years of experience.
Installer Qualifications: Factory-authorized representative trained in the safe handling of high-tension spring assemblies.
1.5 DELIVERY, STORAGE, AND HANDLING
Protection: Keep door sections wrapped in protective cardboard packs to prevent scratching or denting before installation.
Storage: Store door panels flat on a level surface off the ground; do not lean them vertically against walls.
1.6 WARRANTY
Door Sections: Manufacturer's limited lifetime warranty against paint blistering, cracking, or structural rust-through.
Hardware & Springs: 5-year warranty on commercial-grade hardware and standard cycling springs.
PART 2 – PRODUCTS
2.1 MANUFACTURERS
Acceptable Brands: Subject to compliance with project specifications, select from industry standard residential brands such as Clopay Building Products, Wayne-Dalton, Overhead Door Corporation, or Amarr Garage Doors.
2.2 DOOR SECTIONS
Construction: 3-layer insulated sandwich construction (Steel-Insulation-Steel).
Skins: Exterior minimum 24-gauge heavy-duty galvanized steel with embossed woodgrain texture or flush profiles.
Insulation: Injected polyurethane or expanded polystyrene (EPS) core chemically bonded to inner and outer skins.
Thermal Rating: Minimum R-value of 9.0 for attached garages (or higher based on climate zone requirements).
2.3 TRACKS AND HARDWARE
Tracks: 2-inch wide, minimum 14-gauge galvanized steel vertical and horizontal tracks engineered for the specific lift clearance.
Rollers: Heavy-duty nylon rollers with 10 ball bearings and steel stems for quiet, smooth operation.
Hinges: Minimum 14-gauge galvanized steel residential hinges profile-stamped for durability.
2.4 COUNTERBALANCE MECHANISM
Spring Type: Oil-tempered, helical wound torsion springs mounted on a continuous steel shaft, rated for a minimum of 10,000 cycles.
Cables: Galvanized aircraft-grade steel lifting cables with a minimum 7:1 safety factor.
2.5 ELECTRIC AUTOMATIC OPERATORS
Drive Type: DC motor with a steel-reinforced belt drive or heavy-duty chain drive system for quiet operation.
Safety Systems: Standard electronic photo-eye sensors, auto-reverse sensors, and emergency manual release cords.
Smart Connectivity: Integrated Wi-Fi capabilities for smartphone control and monitoring.
PART 3 – EXECUTION
3.1 EXAMINATION
Wall Framing: Verify that side jambs are flush, plumb, and true, and that the header is level with proper vertical headroom.
Floor Level: Ensure the garage floor slab is level and flat across the entire width of the opening to ensure a tight bottom seal.
3.2 INSTALLATION
Track Assembly: Bolt vertical tracks securely to the wall jamb bucks and brace horizontal tracks firmly to the ceiling structure.
Section Placement: Install door sections sequentially from bottom to top, ensuring proper placement of rollers and hinges.
Spring Tensioning: Wind torsion springs using proper steel winding bars in strict compliance with manufacturer instructions.
Weatherstripping: Fasten flexible vinyl perimeter weatherstripping to the exterior jambs and header for a draft-free seal.
3.3 ADJUSTING AND CLEANING
Balance Check: Disengage the electric operator to confirm the door can be lifted manually with minimal effort and stays in mid-travel position.
Safety Testing: Conduct the manufacturer UL 325 safety reverse test using a 1-1/2 inch object placed flat on the floor under the door path.
Lubrication: Apply a silicone or lithium-based spray lubricant to all rollers, hinges, and torsion springs.

SECTION 08 53 13 – COMMERCIAL VINYL WINDOWS

PART 1 – GENERAL
1.1 SUMMARY
Section Includes: Architectural, commercial-grade rigid vinyl (PVC) windows, structural mullions, heavy-duty commercial hardware, high-performance insulated glass, and anchoring systems.
Related Sections:
Section 07 27 00 – Air Barriers (for tie-in to the commercial building envelope).
Section 07 92 00 – Joint Sealants (for high-movement structural caulking).
Section 06 20 00 – Finish Carpentry (for interior window trim and stools).
1.2 REFERENCES
Performance Standards: AAMA/WDMA/CSA 101/I.S.2/A440 (North American Fenestration Standard - NAFS). Must meet minimum **CW (Commercial Window)** or **AW (Architectural Window)** classifications.
Structural/Water Testing: ASTM E330 (Structural Performance of Exterior Windows Curtain Walls and Doors Uniform static air pressure).
Thermal Performance: NFRC 100 (U-Factor) and NFRC 200 (Solar Heat Gain Coefficient).
Safety Glazing: CPSC 16 CFR 1201 and ANSI Z97.1 (Safety Glazing Materials Used in Buildings).
1.3 SUBMITTALS
Product Data: Manufacturer's specifications showing multi-chamber profile dimensions, vinyl wall thickness, and hardware layouts.
Shop Drawings: Large-scale sectional details, structural mullion calculations, anchoring methods for commercial substrates (concrete, steel studs), and flashing transitions.
Certifications: Independent laboratory test reports verifying AAMA Commercial Performance Grade (PG), air infiltration, and water resistance.
1.4 QUALITY ASSURANCE
AAMA Certification: Windows must carry the permanent AAMA Gold Label validation hallmark.
Structural Engineering: Structural calculations for wind-load design pressures must be signed and sealed by a professional engineer licensed in the project's state.
1.5 DELIVERY, STORAGE, AND HANDLING
On-Site Storage: Store windows upright on a level surface, off the ground, under a well-ventilated waterproof covering.
Heat Prevention: Avoid storing windows in enclosed spaces or under tight plastic shrink wraps where temperatures can exceed 140°F (60°C), causing permanent vinyl distortion.
1.6 WARRANTY
Commercial Warranty: Manufacturer's minimum 10-year non-prorated commercial warranty covering vinyl frames, internal reinforcements, structural components, and hardware.
Insulated Glass: 10-year commercial warranty against seal failure or internal fogging.
PART 2 – PRODUCTS
2.1 MANUFACTURERS
Acceptable Brands: Subject to compliance with project specifications, select from commercial-grade vinyl window manufacturers such as Pella, Anderson, REHAU Commercial Window Systems, Deceuninck North America, VEKA Inc., or Ply Gem Commercial.
2.2 WINDOW FRAME & SASH CONSTRUCTION
Materials: Extruded, heavy-wall, UV-stabilized rigid PVC meeting AAMA 303 requirements.
Wall Thickness: Premium heavy-duty profiles with nominal exterior wall thickness and capability AAMA CW or AW structural requirements.
Reinforcement: Internal chambers must be reinforced with factory-inserted galvanized steel channels or structural aluminum profiles to meet design pressure metrics.
Joints: All frame and sash corners must be 100% fusion-welded with internal flash cleaned smooth.
2.3 GLAZING PERFORMANCE
Insulated Glass Units (IGUs): Commercial 1-inch nominal thickness double or triple-pane units.
Glass Type: Fully tempered or heat-strengthened float glass to withstand commercial thermal stress and wind loads.
Coatings: High-performance Low-E coatings (e.g., double or triple silver layer) on surface #2 or #3.
2.4 COMMERCIAL HARDWARE & ACCESSORIES
Hardware Class: Heavy-duty, commercial-grade, corrosion-resistant cast white bronze or stainless steel components.
Locks: Dual or multi-point tie-bar locking systems operated by a single ergonomic handle.
Hinges/Operators: Heavy-duty four-bar stainless steel friction hinges for awning and casement configurations.
Insect Screens: Heavy-wall extruded aluminum frames with charcoal fiberglass or aluminum wire mesh.
PART 3 – EXECUTION
3.1 EXAMINATION
Substrate Verification: Verify that concrete block, structural steel, or heavy-gauge metal stud openings are square, plumb, and free of defects.
Tolerances: Ensure rough openings do not vary by more than 1/8 inch from design dimensions.
3.2 INSTALLATION
Perimeter Flashing: Apply a high-performance commercial self-adhering flashing membrane or fluid-applied flashing across the rough opening.
Shim Placement: Position high-density plastic shims at structural load points beneath the sill and adjacent to anchor points to prevent frame deflection.
Anchoring: Fasten frames to the structural substrate using heavy-duty, corrosion-resistant concrete anchors or self-tapping metal screws.
Fastener spacing must strictly follow engineered shop drawings.
Perimeter Sealant: Apply a continuous backer rod and premium non-sag polyurethane or silicone sealant around the exterior perimeter to form a primary weather seal.
3.3 ADJUSTING AND CLEANING
Operation: Adjust all sash balances, multi-point locks, and hinges to ensure smooth operation under standard building occupancy conditions.
Insulation: Install a low-expansion, closed-cell polyurethane foam backing lightly around the interior rough opening gap.
Final Cleanup: Remove all protective tapes, debris, and structural labels. Clean vinyl frames and glass using non-solvent cleaners.

SECTION 08 71 00 - DOOR HARDWARE

PART 1 - GENERAL
1.1 SUMMARY
Section Includes: Finish door hardware for swinging, sliding, and folding doors.
Exclusions: Integrated factory-installed hardware, rough hardware, and cabinet hardware.
1.2 REFERENCES
BHMA: Builders Hardware Manufacturers Association.
NFPA 80: Standard for Fire Doors and Other Opening Protectives.
NFPA 101: Life Safety Code.
ICC A117.1: Accessible and Usable Buildings and Facilities.
UL 305: Panic Hardware Standard for Exit Devices.
1.3 SUBMITTALS
Product Data: Include technical sheets, installation details, and finishing templates.
Hardware Schedule: Organize by door number indicating product, manufacturer, and finish.
Keying Schedule: Outline master key system hierarchy with owner approval documentation.
O&M Data: Provide maintenance manuals, parts lists, and cleaning instructions.
1.4 QUALITY ASSURANCE
Qualifications: Hardware supplier must employ a certified Architectural Hardware Consultant (AHC).
Fire-Rated Openings: Provide products tested and listed by UL or Intertek.
Accessibility: All operational hardware must comply with ADA regulations.
1.5 DELIVERY, STORAGE, AND HANDLING
Packaging: Label each item individually with the corresponding door heading number.
Storage: Store items in a dry, secure area off the floor.
1.6 WARRANTY
Closers: 10-year manufacturer warranty.
Exit Devices: 5-year manufacturer warranty.
Locksets: 3-year manufacturer warranty.
PART 2 - PRODUCTS
2.1 MANUFACTURERS
Hinges: Ives, Hager, McKinney.
Flush Bolts and Surface Bolts: Rockwood.
Door Push Plates and Pull Plates: Rockwood.
Locksets & Cylinders: Schlage, Best, Corbin Russwin, ASSA ABLOY.
Exit Devices: Von Duprin, Sargent, Yale, Adman Rite.
Closers: LCN, Norton, Sargent, ASSA ABLOY.
Architectural Trim and Accessories: Rockwood.
Door Stops and Holders: Rockwood.
Architectural Seals: Pemko.
2.2 MATERIALS AND COMPONENTS
Hinges: Five-knuckle, ball-bearing, stainless steel or brass substrate, with non-removable pin where shielded.
Locksets: Heavy-duty cylindrical (Grade 1) or mortise type as scheduled.
Exit Devices: Touch-bar type, tested to ANSI/BHMA A156.3 Grade 1.
Door Closers: Rack-and-pinion type, fully adjustable cast iron body.
Flat Goods: Kickplates to be 0.050-inch thick stainless steel, beveled 4 edges.
2.3 KEYING
System: Grand Master Key (GMK) or Great-Grand Master Key (GGMK) system.
Cylinders: Removable core type for temporary construction keying.
2.4 FINISHES
Standard: Satin Stainless Steel (BHMA 630 / US32D) for general hardware.
Closers: Match adjacent hardware.
PART 3 - EXECUTION
3.1 EXAMINATION
Verification: Verify doors and frames are straight, plumb, and ready for installation.
3.2 INSTALLATION
Standards: Install hardware according to DHI "Recommended Locations for Architectural Hardware."
Mounting: Use manufacturer-supplied fasteners. Do not use wood screws on metal.
3.3 ADJUSTING AND CLEANING
Testing: Adjust closers, latches, and exit devices for smooth, secure operation.
Closing Speed: Set closers to comply with maximum opening force requirements.
Protection: Clean hardware and protect finishes from construction damage.
3.4 HARDWARE SETS
Refer to Door Schedule

SECTION 09 21 16 - GYPSUM BOARD ASSEMBLIES ON WOOD FRAMING

PART 1 - GENERAL
1.1 SUMMARY
Section Includes: Interior gypsum board attached to wood framing, backing boards, trim, joint finishing, sound attenuation blankets, and acoustic sealants.
1.2 REFERENCES
ASTM C840: Standard Specification for Application and Finishing of Gypsum Board.
ASTM C1002: Standard Specification for Steel Self-Piercing Tapping Screws.
ASTM C1396: Standard Specification for Gypsum Board.
GA-214: Gypsum Association Quick Guide to Levels of Finish.
GA-216: Gypsum Association Application and Finishing of Gypsum Panel Products.
1.3 SUBMITTALS
1. **Product Data**: Submit manufacturer technical data for gypsum panels, fasteners, trims, and joint compounds.
2. **Certifications**: Provide documentation verifying fire-resistance-rated assembly compliance on wood framing.
1.4 QUALITY ASSURANCE
Fire-Test-Response: Provide assemblies identical to those tested per ASTM E119 by UL or Intertek for wood-frame configurations were called for on Drawings.
STC Ratings: Provide acoustic assemblies matching sound-tested wood stud wall designs where called for on Drawings.
1.5 DELIVERY, STORAGE, AND HANDLING
Stacking: Store gypsum panels flat on risers to prevent sagging, warping, and edge damage.
Protection: Keep all materials dry and shielded from weather, standing water, or high humidity.
PART 2 - PRODUCTS
2.1 FRAMING ACCESSORIES
Furring Channels: Resilient channels (RC-1) or hat channels for sound isolation where scheduled.
Wood Screws: Type W bugle-head screws for attaching gypsum board directly to wood framing.
Metal Screws: Type S or Type S-12 screws for attaching panels to resilient metal furring channels.
2.2 PANEL PRODUCTS
Standard Gypsum Board: ASTM C1396, 1/2-inch or 5/8-inch thickness, tapered edges.
Fire-Rated Gypsum Board: Type X or Type C, ASTM C1396, 5/8-inch thickness for fire-rated wood assemblies.
Moisture-Resistant Panels: Mold-resistant core with fiberglass mat facers for bathrooms and kitchens.
Tile Backer Board for Non-Wet Areas: Glass Mat Faced Board, 5/8-inch thickness.
2.3 Acoustic Accessories
Sound Attenuation Blankets: preformed glass fiber, friction fit type, unfaced, thickness as shown on drawings or thickness necessary to fill cavity.
Acoustic Sealant: Acrylic emulsion latex or water-based elastomeric sealant; do not use solvent-based non-curing butyl sealant.
2.4 FINISHING MATERIALS
Joint Tape: Paper tape for interior joints; fiberglass mesh tape for specialty water-resistant panels.
Joint Compound: Drying-type or setting-type chemical-hardening compounds.
Corner Beads: Galvanized steel, vinyl, or paper-faced metal beads.
PART 3 - EXECUTION
3.1 EXAMINATION
Framing Inspection: Verify wood framing is dry (moisture content below 19 percent), plumb, aligned, and secure.
Defects: Ensure blocking, fire-stopping, and backing for wall-mounted fixtures are complete before installation.
3.2 INSTALLATION OF GYPSUM BOARD
Orientation: Apply panels perpendicular to wood framing members to maximize strength and minimize joints.
Fastening: Drive Type W screws to a depth where the head slightly dimples the paper without tearing it.
Spacing: Space fasteners maximum 12 inches on center for ceilings and 16 inches on center for walls.
Floating Angles: Use floating inside corners where walls meet ceilings to prevent cracking from wood shrinkage.
3.3 FINISHING GYPSUM BOARD
Level 1 Finish: Embed tape in compound; use for plenum areas, concealed attic spaces, and mechanical rooms.
Level 4 Finish: Embed tape, apply three separate coats of compound; use for standard texture or flat paints.
Level 5 Finish: Level 4 finish plus a thin skim coat over the entire surface; use for gloss or semi-gloss paints.
3.4 CLEANING AND PROTECTION
Waste: Remove all drywall scraps and dust from the floor before finished flooring installation.
Environmental: Maintain minimum 50°F during finishing and curing to prevent joint cracking.

SECTION 09 30 00 - TILING

PART 1 - GENERAL
1.1 SUMMARY
Section Includes: Ceramic tile, porcelain tile, quarry tile, stone thresholds, waterproof membranes, and installation materials.
Scope: Floor, wall, and base applications including setting beds, grouting, and joint sealants.
1.2 REFERENCES
ANSI A108 Series: Compendium of American National Standards for the Installation of Ceramic Tile.
ANSI A118 Series: Specifications for Mortars, Grouts, and Membranes.
TCNA Handbook: Tile Council of North America Handbook for Ceramic, Glass, and Stone Tile Installation.
ISO 13007: Ceramic Tiles — Grouts and Adhesives.
1.3 SUBMITTALS
Product Data: Submit manufacturer technical specifications for tile, mortar, grout, and membranes.
Samples: Provide physical tile boards showing full range of colors, textures, and grout options.
Master Grade Certificate: Submit TCNA Master Grade Certificates signed by the manufacturer and installer.
1.4 QUALITY ASSURANCE
Installer Qualifications: Company specializing in performing tile work with minimum 5 years documented experience.
Mockups: Erect a 4x4-foot mockup for each tile type to verify pattern alignment, joint width, and workmanship.
1.5 DELIVERY, STORAGE, AND HANDLING
Protection: Deliver materials in original sealed containers with manufacturer labels intact.
Environmental: Store setting materials and grouts in dry, weather-tight spaces above 50°F.
PART 2 - PRODUCTS
2.1 TILE MATERIALS
Ceramic Tile: ANSI A137.1, standard grade, glazed or unglazed wall tile as scheduled.
Porcelain Tile: ANSI A137.1, dense, impervious body with water absorption rate below 0.5 percent.
Quarry Tile: ANSI A137.1, extruded, unglazed units for heavy-duty commercial applications.
2.2 SETTING AND UNDERLAYMENT MATERIALS
Waterproof Membrane: ANSI A118.10, fluid-applied or sheet-applied membrane for wet areas.
Crack-Isolation Membrane: ANSI A118.12, thin, flexible membrane to prevent reflective cracking.
Thin-Set Mortar: ANSI A118.4 or ANSI A118.15, polymer-modified dry-set cement mortar.
2.3 GROUT MATERIALS
Standard Cement Grout: ANSI A118.6, non-sanded for narrow joints; sanded for wide joints.
High-Performance Grout: ANSI A118.7, polymer-modified cement grout for stain and mildew resistance.
Epoxy Grout: ANSI A118.3, 100-percent solids epoxy grout for chemical and high-impact resistance.
2.4 ACCESSORIES
Thresholds: Marble, granite, or engineered stone with beveled edges matching specified thickness.
Edge Strips: Metal or PVC L-shaped trim profiles for protecting exposed tile edges.
PART 3 - EXECUTION
3.1 EXAMINATION
Substrate Verification: Verify substrates are structurally sound, clean, and free of curing compounds or oil.
Deflection: Check that wood or concrete substrates do not exceed deflection limits of L/360 (L/720 for stone).
3.2 PREPARATION
Cleaning: Remove all dust, debris, and foreign matter from surfaces to receive tile.
Priming: Apply substrate primers where recommended by the mortar manufacturer.
3.3 INSTALLATION
TCNA Methods: Install tile in accordance with specific TCNA Handbook design methods (e.g., F113, W244).
Mortar Coverage: Ensure minimum 80 percent mortar coverage in dry areas and 95 percent in wet areas.
Joint Widths: Maintain uniform joint widths as scheduled, utilizing plastic spacers.
3.4 GROUTING AND CLEANING
Curing: Allow tile to set firmly (minimum 24 hours) before applying grout.
Application: Force grout into joints to ensure complete filling without voids.
Sponge Clean: Remove excess grout from tile faces using a damp sponge before it hardens.

SECTION 09 65 19 - LUXURY VINYL PLANK FLOORING

PART 1 - GENERAL
1.1 SUMMARY
Section Includes: Luxury Vinyl Plank (LVP) flooring, luxury vinyl tile (LVT), rubber or vinyl transition accessory strips, and floor preparations.
Exclusions: Substrate preparation and leveling (specified in Section 09 05 61), and resilient wall base.
1.2 REFERENCES
ASTM F1700: Standard Specification for Solid Vinyl Floor Tile.
ASTM E648: Standard Test Method for Critical Radiant Flux of Floor-Covering Systems.
ASTM F1869: Test Method for Measuring Moisture Vapor Emission Rate (MVER) of Concrete.
ASTM F2170: Test Method for Determining Relative Humidity in Concrete Floor Slabs.
1.3 SUBMITTALS
Product Data: Submit manufacturer technical specifications, installation guides, and maintenance instructions.
Samples: Provide 3 full-size plank samples showing specified color, graining, texture, and variation.
Certifications: Submit indoor air quality certifications (e.g., FloorScore) and fire test compliance.
1.4 QUALITY ASSURANCE
Installer Qualifications: Company specializing in luxury vinyl installation with minimum 3 years documented experience.
Mockups: Install a minimum 100-square-foot mockup in an area designated by the Architect to verify layout and seams.
1.5 FIELD CONDITIONS
Conditioning: Store flooring materials and adhesives in the installation space for 48 hours prior to work.
HVAC Operation: Maintain ambient temperature between 65°F and 85°F during installation and for 72 hours after.
PART 2 - PRODUCTS
2.1 LUXURY VINYL PLANK (LVP)
Classification: ASTM F1700, Class III, Printed Film Vinyl Tile, Type B (Embossed).
Thickness: Overall thickness of 5.0 mm minimum (or as scheduled).
Wear Layer: Minimum 20 mil (0.5 mm) thickness, urethane coating reinforced with ceramic bead or aluminum oxide.
Size: Standard manufacturer plank dimensions (e.g., 6" x 48" or 7" x 48") with square or micro-beveled edges.
2.2 INSTALLATION MATERIALS
Adhesive: Low-VOC, water-resistant, premium acrylic transition adhesive recommended by the flooring manufacturer.
Underlayment: Acoustical underlayment membrane if required for sound deadening.
PART 3 - EXECUTION
3.1 EXAMINATION
Substrate Acceptance: Verify substrate is smooth, dry, flat to within 3/16 inch in 10 feet, and free of defects.
Moisture Testing: Ensure concrete relative humidity (RH) does not exceed manufacturer adhesive limits per ASTM F2170.
3.2 INSTALLATION
Layout: Plan plank layout to avoid narrow border pieces (less than 3 inches wide) or short end pieces (less than 6 inches long).
Joint Staggering: Stagger end joints in adjacent rows by a minimum of 8 inches to create a natural wood-plank pattern.
Adhesive Application: Apply adhesive uniformly with the correct trowel notch size; allow proper open time before rolling.
Rolling: Roll the installed floor in both directions with a 100-pound, three-section roller to ensure full adhesive bond.
3.3 CLEANING AND PROTECTION
Initial Cleaning: Scrape away excess wet adhesive immediately; damp-mop floor 48 hours after installation using a neutral cleaner.
Traffic Restrictions: Prohibit heavy foot traffic for 24 hours and rolling loads for 72 hours after installation.
Protection: Cover completed flooring with non-staining construction paper or hardboard in high-traffic trade zones.

SECTION 09 91 00 - PAINTING

PART 1 - GENERAL
1.1 SUMMARY
Section Includes: Surface preparation and field application of paints, stains, and protective coatings to interior and exterior substrates.
Exclusions: Factory-finished items and traffic line striping.
1.2 REFERENCES
MPI (Master Painters Institute): Architectural Painting Specification Manual.
ASTM D16: Standard Terminology Relating to Paint, Varnish, Lacquer, and Related Products.
SSPC (Society for Protective Coatings): Surface Preparation Specifications (SP-1 through SP-11).
EPA: Method 24 for Determining Volatile Organic Compound (VOC) Content.
1.3 SUBMITTALS
Product Data: Submit manufacturer technical data sheets and VOC content verification for each paint system.
Color Samples: Provide physical draw-downs of each specified color and gloss level on 8x10-inch cardstock.
Schedule: Coordinate a complete coating schedule listing all substrates, preparation methods, primers, and finishes.
1.4 QUALITY ASSURANCE
Mockups: Apply a full-finish sample installation on a 10x10-foot area of each main substrate to verify color, texture, and hiding power.
MPI Standards: Products and execution must conform to the latest edition of the MPI Architectural Painting Specification Manual.
1.5 FIELD CONDITIONS
Temperature: Do not apply exterior coatings when ambient or surface temperatures are below 50°F or above 95°F.
Moisture: Do not paint exterior surfaces during rain, fog, mist, or when relative humidity exceeds 85 percent.
Ventilation: Maintain continuous ventilation during and after interior paint application to ensure proper drying and odor dissipation.
PART 2 - PRODUCTS
2.1 MANUFACTURERS
Basis-of-Design Brands: Sherwin-Williams, Benjamin Moore, Behr, PPG Architectural Coatings.
2.2 PAINT MATERIALS - GENERAL
Quality: Provide manufacturer's premium professional-grade products matching the specified MPI system numbers.
VOC Compliance: All interior paints must comply with local green building regulations and LEED low-VOC thresholds.
2.3 EXTERIOR PAINTING SYSTEMS
Concrete & Masonry:
Primer: 1 coat alkali-resistant masonry primer.
Finish: 2 coats exterior 100-percent acrylic latex (Flat or Satin).
Exterior Wood:
Primer: 1 coat exterior wood primer (oil-based or acrylic block filler).
Finish: 2 coats exterior acrylic latex (Semi-Gloss or Gloss).
Ferrous Metal:
Primer: 1 coat rust-inhibitive metal primer.
Finish: 2 coats exterior waterborne acrylic or polyurethane (Semi-Gloss).
2.4 INTERIOR PAINTING SYSTEMS
Gypsum Board (Walls):
Primer: 1 coat interior latex drywall primer.
Finish: 2 coats interior acrylic latex (Eggshell or Satin).
Gypsum Board (Ceilings):
Primer: 1 coat interior latex drywall primer.
Finish: 2 coats interior latex ceiling paint (Flat).
Wood Trim & Doors:
Primer: 1 coat interior enamel undercoater.
Finish: 2 coats interior waterborne alkyd or acrylic enamel (Semi-Gloss).
PART 3 - EXECUTION
3.1 EXAMINATION
Moisture Content: Test substrates using an electronic moisture meter. Do not paint concrete above 12% or wood above 15% moisture.
Substrate Defects: Verify all surfaces are smooth, dry, and free of defects before beginning work.
3.2 SURFACE PREPARATION
Cleaning: Remove mildew, oil, grease, dirt, and efflorescence. Wash surfaces per SSPC-SP 1 or manufacturer guidelines.
Mechanical Prep: Scrape, sand, or wire-brush loose or peeling paint to match SSPC-SP 2 or SP 3 standards.
Barriers: Mask off all adjacent hardware, glass, flooring, and signage to protect from overspray and drips.
3.3 APPLICATION
Methods: Apply materials by brush, roller, or spray equipment according to manufacturer recommendations.
Mil Thickness: Maintain the specified wet film thickness (WFT) and dry film thickness (DFT) for each layer.
Drying Time: Allow the minimum required drying time between coats to prevent bubbling or lifting.
3.4 CLEANING AND PROTECTION
Cleanup: Remove all paint splatters from glass, hardware, and finished floor surfaces immediately.
Touch-Up: Correct any holidays, runs, sags, or brush marks prior to final acceptance.
Attic Stock: Deliver 1 unopened gallon of each paint color and gloss level to the owner for future maintenance.

SECTION 09 96 00 - HIGH-PERFORMANCE COATINGS (EPOXY)

PART 1 - GENERAL
1.1 SUMMARY
Section Includes: High-performance epoxy floor coatings, wall coatings, chemical-resistant finishes, and joint treatments.
Scope: Multi-coat epoxy systems for heavy-duty commercial or industrial concrete substrates.
1.2 REFERENCES
ASTM D4258: Standard Practice for Surface Cleaning Concrete for Coating.
ASTM D4259: Standard Practice for Abrading Concrete.
ASTM F2170: Test Method for Determining Relative Humidity in Concrete Floor Slabs.
ICRI 310.2R-2013: Selecting and Specifying Concrete Surface Preparation for Sealers and Coatings.
SSPC (Society for Protective Coatings): Joint surface preparation standards.
1.3 SUBMITTALS
Product Data: Submit technical data sheets, chemical resistance charts, and installation instructions.
Samples: Provide 6-inch square finish cured coating samples on hardboard showing specified color, texture, and slip-resistant aggregate distribution.
Test Reports: Document all certified concrete moisture and alkalinity test results before application.
1.4 QUALITY ASSURANCE
Installer Qualifications: Certified and approved in writing by the coating manufacturer with minimum 5 years documented experience.
Mockups: Prepare a 10x10-foot area to verify surface profile, color, slip resistance, and workmanship.
1.5 FIELD CONDITIONS
Environmental Ambient: Maintain temperature between 60°F and 85°F for 24 hours prior, during, and 48 hours after application.
Relative Humidity: Ensure ambient humidity is below 85 percent and the substrate temperature is at least 5°F above dew point.
PART 2 - PRODUCTS
2.1 MANUFACTURERS
Basis-of-Design Brands: Sherwin-Williams Protective & Marine, Tennant Coatings, Stonhard, Carboline.
2.2 PERFORMANCE REQUIREMENTS
Compressive Strength: Minimum 10,000 psi at 28 days per ASTM C579.
Tensile Strength: Minimum 2,000 psi per ASTM C307.
Abrasion Resistance: Maximum weight loss of 50 mg per ASTM D4060 (CS-17 Wheel, 1,000 cycles).
2.3 COATING SYSTEMS
Primer Coat: 100-percent solids, low-viscosity epoxy penetration primer.
Base/Intermediate Coat: 100-percent solids, self-leveling build epoxy resin.
Topcoat: High-solids chemical-resistant polyurethane or aliphatic epoxy for UV stability and gloss retention.
Aggregates: Clean, dry aluminum oxide or quartz silica for slip-resistant textures as scheduled.
PART 3 - EXECUTION
3.1 EXAMINATION
Substrate Strength: Verify concrete has a minimum compressive strength of 3,000 psi and has cured for at least 28 days.
Moisture Testing: Perform concrete relative humidity (RH) testing per ASTM F2170; ensure levels are within manufacturer limits.
3.2 SURFACE PREPARATION
Mechanical Prep: Shot-blast or diamond-grind concrete to achieve required ICRI Concrete Surface Profile (CSP) of 3 to 5.
Crack & Joint Treatment: Route and fill non-moving cracks with a 100-percent solids semi-rigid epoxy joint filler.
Cleaning: Vacuum away all concrete dust and debris to achieve a clean surface per ASTM D4258.
3.3 APPLICATION
Mixing: Mix multi-component materials using a low-speed drill strictly matching manufacturer ratios.
Primer: Apply primer uniformly using a squeegee and back-roll to eliminate pinholes.
Build/Topcoats: Apply intermediate and topcoats at the specified wet film thickness (WFT); broadcast aggregate uniformly if slip-resistance is required.
3.4 CLEANING AND PROTECTION
Curing: Prevent foot traffic for 24 hours and heavy vehicle traffic for 72 hours minimum.
Defects: Correct any pinholes, craters, bubbles, or uneven aggregate distribution before final acceptance.

SECTION 10 14 25 - INTERIOR DOOR & ROOM SIGNAGE

PART 1 - GENERAL
1.1 SUMMARY
Section Includes: Room identification signs, directional signage, and regulatory code signs.
1.2 REFERENCES
ADAAG: Americans with Disabilities Act Accessibility Guidelines.
ICC A117.1: Accessible and Usable Buildings and Facilities.
ASTM E2072: Standard Specification for Photoluminescent Markings.
1.3 SUBMITTALS
Product Data: Technical data sheets for each specified sign type.
Shop Drawings: Location plans, sign schedule, text, details, and dimensions.
Samples: Full-size samples of each sign type showing typography and colors.
1.4 QUALITY ASSURANCE
Fabricator Qualifications: Company specializing in fabricating signs of the type specified with a minimum of 3 years experience.
PART 2 - PRODUCTS
2.1 MANUFACTURERS
Acceptable Brands: Best Signs; https://bestsigns.com
2.2 SIGN SUBSTRATES AND MATERIALS
Acrylic Sheets: Cast acrylic, matte finish, minimum 1/4-inch thickness.
Tactile Characters: Raised 1/32-inch, sans-serif font, accompanied by Grade 2 Braille.
Frame: Injection molded plastic.
2.3 FABRICATION
Injection Molded Signs: Solid color acrylic plastic, injection molded as detailed.
Raised Character and Pictograms: Acrylic plastic, character adhered to base material.
Edges: Chemically welded, eased, and polished smooth with no sharp corners.
PART 3 - EXECUTION
3.1 EXAMINATION
Site Verification: Verify that walls and mounting surfaces are flat and clean.
3.2 INSTALLATION
Positioning: Install signs 48 to 60 inches from floor to baseline.
Location: Mount on the latch side of the door wall surface.
Method: Use high-strength double-sided vinyl foam tape and silicone adhesive.
Backing Plate: Provide backing plate to adhere to the inside of glass where signs are mounted to glass.
3.3 CLEANING AND PROTECTION
Cleaning: Clean sign surfaces with mild soap and micro-fiber cloths.
Protection: Protect signs from construction damage using removable protective masking.

SECTION 10 28 00 - TOILET, BATH, & LAUNDRY ACCESSORIES

PART 1 - GENERAL
1.1 SUMMARY
Section Includes: Commercial toilet accessories, shower room accessories, and laundry room components.
Related Sections: Section 06 10 00 (Rough Carpentry for backing), Section 09 30 00 (Tiling).
1.2 REFERENCES
ADAAG: Americans with Disabilities Act Accessibility Guidelines.
ASTM A666: Standard Specification for Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar.
1.3 SUBMITTALS
Product Data: Technical data sheets for each specified accessory item.
Shop Drawings: Installation guides showing dimensions, rough-in locations, and blocking requirements.
Schedule: Detailed coordination checklist mapping specific accessories to individual room locations.
1.4 QUALITY ASSURANCE
Regulatory: Products must comply with local accessibility codes and federal ADA requirements.
PART 2 - PRODUCTS
2.1 MANUFACTURERS
Acceptable Brands: Bobrick Washroom Equipment, Bradley Corporation, ASI (American Specialties, Inc.).
2.2 MATERIALS
Stainless Steel: ASTM A666, Type 304, with a No. 4 satin finish.
Mirrors: 1/4-inch thick select float glass with a silver coating and stainless steel frame.
Fasteners: Stainless steel, tamper-resistant screws for all exposed connections.
2.3 TOILET ACCESSORIES
Grab Bars: 1-1/2 inch outer diameter stainless steel tubing with slip-resistant gripping surfaces.
2.4 BATH AND SHOWER ACCESSORIES
Shower Curtains: Antimicrobial, water-resistant vinyl panels with rust-proof metal grommets.
**

DEFERRED SUBMITTALS

1) GENERAL:

1A) THE FOLLOWING PORTIONS OF THE STRUCTURAL DESIGN WILL NOT BE SUBMITTED AT THE TIME OF PERMIT APPLICATION. WHEN RECEIVED AND REVIEWED, THESE DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE BUILDING OFFICIAL BY THE CONTRACTOR:
- ENGINEERED AGGREGATE PIERS SUBGRADE ENHANCEMENT
- WOOD ROOF TRUSSES, JOISTS & RAFTERS
- CURTAIN WALL
- ARCHITECTURAL CLADDING
- ANCHORAGE, BRACING AND ATTACHMENT OF REQUIRED ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, FIRE SPRINKLER, AND OTHER EQUIPMENT AND SYSTEMS.

1B) CONNECTION OF DEFERRED SUBMITTAL ITEMS TO PRIMARY STRUCTURE BY DEFERRED SUBMITTAL SUPPLIER. DEFERRED SUBMITTAL SUPPLIER TO PROVIDE CONNECTIONS AND FRAMING ARRANGEMENT TO AVOID LOADING WHICH EXCEEDS THE CAPACITY OF THE ELEMENT BEING ATTACHED TO.

1C) ALL DEFERRED SUBMITTALS TO BE ATTACHED TO PRIMARY STRUCTURE WITH A PINNED CONNECTION. MOMENT CONNECTIONS TO PRIMARY STRUCTURE NOT PERMITTED UNLESS NOTED ON DRAWINGS OR APPROVED BY ENGINEER IN WRITING PRIOR TO SUBMITTAL OF DRAWINGS OR CALCULATIONS.

1D) LOADING AND LOCATION FOR ATTACHMENT OF DEFERRED SUBMITTAL ITEMS ARE NOTED ON DRAWINGS AND ARE NOT TO BE RE-LOCATED OR INCREASED WITHOUT WRITTEN APPROVAL.

1E) CONCRETE SHALL BE CONSIDERED CRACKED FOR THE PURPOSE OF DESIGNING ANCHORS FOR ATTACHMENT OF DEFERRED SUBMITTAL ITEMS.

1F) SUBMIT STAMPED STRUCTURAL CALCULATIONS FOR ALL DEFERRED SUBMITTAL ITEMS PRIOR TO OR CONCURRENTLY WITH DRAWINGS OR PRODUCT DATA. INCLUDE ANALYSIS OF ATTACHMENT TO PRIMARY STRUCTURE. INCLUDE CURRENT ICC REPORT WITH ALL PROPRIETARY STRUCTURAL ELEMENTS AND ANCHORS/FASTENERS.

1G) WOOD TRUSS DESIGN CALCULATIONS SHALL BE BASED OFF LOADS PROVIDED IN DESIGN CRITERIA, LOAD TABLES, PLANS, PLAN NOTES AND DETAILS. WOOD TRUSS CALCULATION AND PLACEMENT DRAWING SHALL BE STAMPED BY ENGINEER RESPONSIBLE FOR THEIR DESIGN. DESIGNER & SUPPLIER RESPONSIBLE FOR DESIGN OF ALL COMPONENTS REQUIRED FOR TRUSS SYSTEM, (SUCH AS BLOCKING, ETC.)

STRUCTURAL DRAWING LIST

SHEET NUMBER	SHEET TITLE
S-001	NOTES
S-002	NOTES
S-003	NOTES
S-130	FOUNDATION PLAN
S-131	MAIN LEVEL FLOOR PLAN
S-132	ROOF LEVEL PLAN
S-300	CONCRETE DETAILS
S-301	CONCRETE DETAILS
S-302	CONCRETE DETAILS
S-600	WOOD DETAILS
S-601	WOOD DETAILS
S-602	WOOD DETAILS
S-603	WOOD DETAILS

FOUNDATION NOTES

1) DESIGN CRITERIA:

1A) THE GEOTECHNICAL REPORT PREPARED BY JFC ENGINEERS & SURVEYORS, NUMBER 11528-25E, DATED 03/27/2025 PROVIDED CRITERIA FOR THE FOUNDATION DESIGN FOR THE PROJECT.

2) FOOTINGS:

2A) FOOTING DESIGN CRITERIA:
- MAXIMUM TOTAL LOAD BEARING PRESSURE = 3000 PSF
- FROST DEPTH TO BOTTOM OF FOUNDATION = 42 IN

3) FOUNDATION WALLS:

3A) EQUIVALENT FLUID PRESSURES USED FOR WALL DESIGN:
- "ACTIVE" CONDITION = 38 PCF
- "AT REST" CONDITION = 57.5 PCF

DESIGN CRITERIA

1) CODES AND STANDARDS:

1A) GENERAL DESIGN
- INTERNATIONAL BUILDING CODE 2024

2) SEISMIC LOADS
- SEISMIC DESIGN CATEGORY = B
- RISK CATEGORY = II
- EARTHQUAKE IMPORTANCE FACTOR, Ie = 1.00
- MAPPED SPECTRAL RESPONSE ACCELERATION, Ss = 29 %g
- MAPPED SPECTRAL RESPONSE ACCELERATION, S1 = 7 %g
- DESIGN SPECTRAL RESPONSE COEFFICIENT, SDs = 0.23
- DESIGN SPECTRAL RESPONSE COEFFICIENT, SD1 = 0.12
- SOIL SITE CLASS = D

3) WIND LOADS
- RISK CATEGORY = II
- BASIC ULTIMATE WIND SPEED, Vult = 105 mph
- BASIC NOMINAL WIND SPEED, Vasd = 81.3 mph
- EXPOSURE CATEGORY = C
- INTERNAL PRESSURE COEFFICIENT, Gcpi = +/- 0.18
- TOPOGRAPHIC FACTOR, Kzt = 1.0
- GROUND ELEVATION FACTOR, Ke = 0.79 FOR ELEVATION = 6,373 FT

4) DESIGN WIND PRESSURE FOR COMPONENTS AND CLADDING AND ELEMENTS DESIGNED BY THE CONTRACTOR

4A) LISTED COMPONENT AND CLADDING WIND PRESSURES ARE INCLUDED FOR REFERENCE ONLY. FINAL CALCULATIONS SHALL BE COMPLETED BY CONTRACTOR
4B) SEE TRUSS MANUFACTURER LOADS FOR ROOF LOADS
4C) PRESSURES LISTED BELOW ARE ULTIMATE
4D) SEE 'WALL CORNER AND SPECIAL ROOF ZONES DIAGRAM'
4E) COMPONENT AND CLADDING SURFACE PRESSURES (PSF)

- **WALLS PRESSURES**

	10 SF	100 SF	200 SF	500 SF
WALLS AREA				
WALLS INTERIOR NEG (ZONE 4)	-19.0	-16.4	-16.0	-16.0
WALLS CORNER NEG (ZONE 5)	-23.3	-18.2	-16.6	-16.0
WALLS POSITIVE ZONE 4 & 5	17.5	16.0	16.0	16.0

5) GRAVITY LOADS

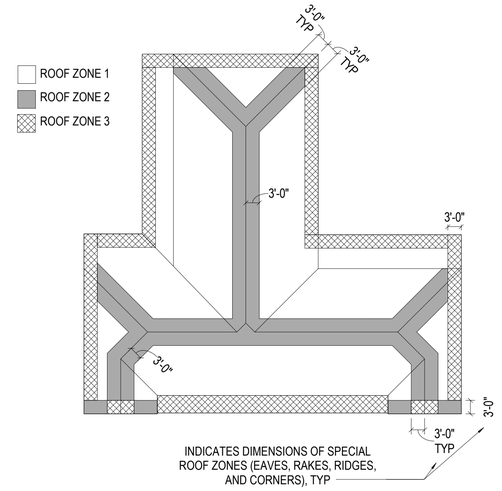
5A) SEE TRUSS MANUFACTURER LOADS FOR ROOF LOADS

5B) DRIFTING, SLIDING AND UNBALANCED SNOW
- GROUND SNOW LOAD = 36.0 psf
- SNOW EXPOSURE FACTOR, Ce = 1.0
- SNOW LOAD IMPORTANCE FACTOR, Is = 1.0
- THERMAL FACTOR, Ct = 1.195
- UNIFORM ROOF SNOW LOAD = 30.1 psf

GRAVITY LOADS

LOCATION	SUPERIMPOSED DEAD LOAD (PSF)	LIVE LOAD (PSF)	LIVE LOAD REDUCTION	POINT LOAD (LB)
ROOF	20	30.1 MIN UNIFORM LOAD, SEE NOTE 5 FOR SNOW LOADS	NO	300
FLOOR	5	50	YES	-

WALL CORNER AND SPECIAL ROOF DIAGRAM



GENERAL NOTES

1) GENERAL:

1A) ENGINEER: REFERENCES ON THE STRUCTURAL DRAWINGS TO 'ENGINEER' MEAN THE STRUCTURAL ENGINEER OF RECORD. OTHER ENTITIES ARE SPECIFICALLY NOTED AS "CONTRACTOR'S ENGINEER", "MECHANICAL ENGINEER", ETC.

1B) UNDERGROUND UTILITIES: LOCATE EXISTING UTILITIES AND NOTIFY ARCHITECT OF EXISTING UTILITIES OR SUBGRADE CONDITIONS WHICH INTERFERE WITH WORK.

1C) STRUCTURAL ELEMENTS ARE CENTERED ON GRID LINES AND GRID LINE INTERSECTIONS UNLESS DIMENSIONED OTHERWISE.

2) USE OF DRAWINGS:

2A) DO NOT SCALE DRAWINGS.

2B) DETAILS ON DRAWINGS TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.

2C) DETAILS NOTED TYPICAL APPLY TO ALL SIMILAR CONDITIONS. WHERE NO SPECIFIC DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ELSEWHERE ON THE PROJECT.

2D) WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL NOTES AND SPECIFICATIONS:
- CONTACT THE ARCHITECT PRIOR TO PROCEEDING WITH CONSTRUCTION
- THE MORE STRINGENT REQUIREMENTS SHALL GOVERN FOR BIDDING / PRICING

3) TEMPORARY CONDITIONS:

3A) THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL TEMPORARY BRACING AND/OR SUPPORT THAT MAY BE REQUIRED AS THE RESULT OF THE CONTRACTOR'S CONSTRUCTION METHODS AND/OR SEQUENCES. REFER TO "LATERAL LOAD RESISTING SYSTEM DESCRIPTION" IN DESIGN CRITERIA FOR ADDITIONAL INFORMATION.

3B) CONTRACTOR'S CONSTRUCTION AND/OR ERECTION SEQUENCES SHALL RECOGNIZE AND CONSIDER THE EFFECTS OF THERMAL MOVEMENTS OF STRUCTURAL ELEMENTS DURING THE CONSTRUCTION PERIOD.

4) SUBMITTALS AND SUBSTITUTIONS:

4A) SUBMITTALS:
- IF THE CONTRACTOR REQUESTS A CHANGE FROM THE STRUCTURAL DRAWINGS, IT SHALL BE APPROVED BY THE ARCHITECT AND DESIGNED BY MARTIN/MARTIN WYOMING, INC. PRIOR TO SUBMITTING SHOP DRAWINGS. VARIATION SHALL BE INDICATED ON THE SHOP DRAWINGS. CONTRACTOR SHALL COMPENSATE MARTIN/MARTIN WYOMING, INC. FOR MAKING THE CHANGE.
- CONSTRUCTION DOCUMENTS SHALL NOT BE REPRODUCED FOR USE IN SUBMITTALS
- ALL SHOP DRAWINGS SHALL REFERENCE THE STRUCTURAL DRAWING NUMBER AND DETAIL USED TO PREPARE THE SUBMITTAL
- SUBMIT A STATEMENT OF RESPONSIBILITY FOR CONSTRUCTION OF THE LATERAL LOAD RESISTING SYSTEM IDENTIFIED IN THE DESIGN CRITERIA IN ACCORDANCE WITH IBC 2024 SECTION 1704.

4B) SUBSTITUTIONS: ARCHITECT'S APPROVAL SHALL BE SECURED FOR ALL SUBSTITUTIONS

4C) NONCONFORMANCE: NOTIFY ARCHITECT OF CONDITIONS NOT CONSTRUCTED PER THE CONTRACT DOCUMENTS PRIOR TO PROCEEDING WITH CORRECTIVE WORK. SUBMIT PROPOSED REPAIR TO THE ARCHITECT FOR ACCEPTANCE. CONTRACTOR SHALL COMPENSATE MARTIN/MARTIN, INC. FOR DESIGNING THE REPAIR.

4D) ALL SHOP DRAWINGS SHALL BE SUBMITTED IN ELECTRONIC FORMAT ONLY.
FRAMING. DO NOT MAKE RIGID VERTICAL AND HORIZONTAL CONNECTIONS TO THE PRIMARY STRUCTURE IN THE PLANE OF THE PARTITION.

5) OSHA STANDARDS:

5A) THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. NOTHING SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE CONSTRUED AS ELIMINATING THE NEED FOR THE CONTRACTOR TO COMPLY WITH ALL OSHA REQUIREMENTS.

5B) THE CONTRACTOR SHALL ADD ALL NECESSARY BOLTS, ANCHOR BOLTS, PLATES, STIFFENER PLATES, STABILIZER PLATES, BRIDGING, BRACING, BEARING SEATS, COLUMN SPLICES, ETC., AS WELL AS CLOSURES FOR OPENINGS.

5C) WASHERS OR RINGS MAY BE WELDED TO COLUMNS TO PROVIDE FOR SAFETY CABLES. HOLES IN COLUMNS FOR SAFETY CABLES SHALL BE SHOP INSTALLED, AND SHALL BE INDICATED ON SHOP DRAWINGS.

5D) WHERE THE STRUCTURAL DRAWINGS APPEAR TO CONFLICT WITH OSHA REQUIREMENTS, THE STRUCTURAL DRAWINGS REPRESENT FINAL CONDITIONS ONLY. THE CONTRACTOR SHALL ADD ERECTION FRAMING NECESSARY TO COMPLY WITH OSHA.

6) CONSTRUCTION ENGINEERING:

6B) THE STRUCTURE DEFINED ON THE CONTRACT DOCUMENTS HAS BEEN DESIGNED ONLY FOR LOADS ANTICIPATED ON THE STRUCTURE DURING ITS SERVICE LIFE. PROVIDE ALL REQUIRED ENGINEERING AND OTHER MEASURES TO ACHIEVE THE MEANS, METHODS, AND SEQUENCES OF WORK. SUCH ENGINEERING MAY INCLUDE, BUT IS NOT LIMITED TO:
- LAYOUT
- DESIGN FOR FORMWORK
- DESIGN OF CONCRETE MIXES
- ERECTION PROCEDURES WHICH ADDRESS STABILITY OF THE FRAME DURING CONSTRUCTION
- WELD PROCEDURES
- DESIGN OF TEMPORARY BRACING OF WALLS FOR WIND, SEISMIC, OR SOIL LOADS
- SURVEYING TO VERIFY CONSTRUCTION TOLERANCES
- EVALUATION OF TEMPORARY CONSTRUCTION LOADS ON STRUCTURE DUE TO EQUIPMENT AND MATERIALS
- STRUCTURAL ENGINEERING TO RESIST ANY OTHER LOADS NOT IDENTIFIED ON DESIGN DRAWINGS

7) COORDINATION:

7A) STRUCTURAL DRAWINGS ARE NOT STAND-ALONE DOCUMENTS AND ARE INTENDED TO BE USED IN CONJUNCTION WITH CIVIL, ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND DRAWINGS FROM OTHER DISCIPLINES. THE CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS INTO SHOP DRAWINGS AND WORK.

7B) COORDINATE DIMENSIONS OF ALL OPENINGS, BLOCKOUTS, DEPRESSIONS, ETC., WITH ARCHITECTURAL DRAWINGS, DRAWINGS FROM OTHER DISCIPLINES, AND FIELD CONDITIONS PRIOR TO SHOP DRAWING SUBMITTAL.

7C) SEE ARCHITECTURAL PLANS FOR INTERIOR PARTITIONS. PARTITION FRAMING SHALL BE CONNECTED TO THE PRIMARY STRUCTURE IN SUCH A WAY SO AS TO ALLOW FOR VERTICAL LIVE LOAD DEFLECTIONS OF SPAN/360 OF THE FLOOR FRAMING OR SPAN/240 AT ROOF FRAMING. DO NOT MAKE RIGID VERTICAL AND HORIZONTAL CONNECTIONS TO THE PRIMARY STRUCTURE IN THE PLANE OF THE PARTITION. SEE

REVISION SCHEDULE

Revision Number	Revision Description	Revision Date

NOTE:

THE ORIGINAL DRAWINGS FOR THIS PROJECT ARE 36" X 24". IF YOU HAVE A SMALLER SET, IT HAS BEEN REDUCED AND DRAWING SCALES ARE NOT VALID.

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Professional Engineer (Structural) WYOMING A. MILLER 15581 Date: 4/22/2026

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NEW RECTORY AT HOLY SPIRIT CATHOLIC COMMUNITY

ROCK SPRINGS, WYOMING

APN: 25-035
Date Issued: 4/22/2026
Drawn By: MMWYO
Checked By: AM
Sheet Title: NOTES
Sheet Number: S-001

DESIGNERS Enter Designer's Name Here
LEAD REVIT TECH: Enter Lead Revit Tech's Name Here
DATE REVISED: 4/22/2026 8:57:27 AM
FILE PATH: Autodesk Docs://ACC-MM S26\25-035_Holy Spirit Catholic Community-Rectory_S26.rvt

MM JOB #: 25-035
PRINCIPAL: Enter Principal's Name Here
EIC: Enter EIC's Name Here
PROJECT MANAGER: Enter PM's Name Here

CONCRETE NOTES

1) GENERAL:

1A) ALL WORK SHALL CONFORM WITH ACI 301-10, UNLESS NOTED OTHERWISE IN DRAWINGS.

1B) DETAIL BARS IN ACCORDANCE WITH THE DRAWINGS, AND ACI PUBLICATION SP-66 (2004): "ACI DETAILING MANUAL"

2) SUBMITTALS:

2A) CONCRETE MIX DESIGNS: FOR EACH CONCRETE MIX. PREPARE MIX DESIGN FOR EACH TYPE AND STRENGTH OF CONCRETE, PROPORTIONED ON THE BASIS OF LABORATORY TRIAL MIXTURE OR FIELD TEST DATA, OR BOTH ACCORDING TO ACI 301. SUBMITTAL SHALL INCLUDE THE FOLLOWING:

1. UNIQUE MIX IDENTIFICATION NUMBER
2. INTENDED USE
3. MIXTURE PROPORTIONS
4. WATER/CEMENT RATIO
5. UNIT WEIGHT
6. TOTAL AIR CONTENT
7. COMPRESSIVE STRENGTH TESTS

2B) PRODUCT DATA FOR EACH TYPE OF PRODUCT INDICATED.

2C) MATERIAL CERTIFICATES FOR CEMENTITIOUS MATERIALS, ADMIXTURES, FORM MATERIALS, FORM RELEASE MATERIALS, STEEL REINFORCEMENT AND ACCESSORIES, FIBER REINFORCEMENT AND CURING COMPOUNDS.

2D) STEEL REINFORCEMENT SHOP DRAWINGS: PLACING DRAWINGS THAT DETAIL FABRICATION, BENDING AND PLACEMENT. INCLUDE BAR SIZES, LENGTHS, MATERIAL, GRADE, STIRRUP SPACING, BENT BAR DIAGRAMS, BAR ARRANGEMENT, SPLICES AND LAPS, MECHANICAL CONNECTIONS, TIE SPACING, STIRRUP SPACING AND SUPPORTS FOR CONCRETE REINFORCEMENT. SUBMITTAL SHALL INCLUDE ELEVATION AND SECTION PROFILES FOR CONCRETE ELEMENTS. STEM WALLS, WALLS, GRADE BEAMS, BEAMS AND JOISTS SHALL BE DRAWN IN ELEVATION VIEW AT ¼" SCALE, ALL REINFORCING, BEAM POCKETS, PILASTERS AND COLUMNS SHALL BE INCLUDED IN THE ELEVATION.

2E) CONSTRUCTION AND CONTROL JOINT LAYOUT ALONG WITH PROPOSED SEQUENCE OF POURS.

2F) ASR TEST REPORTS: SUBMIT TEST REPORTS INDICATING THAT AGGREGATES ARE NOT POTENTIALLY REACTIVE BASED ON THE ASTM C295 OR ASTM 1260 TESTING LIMITS SET FORTH IN SECTION 5.1 OF "GUIDE SPECIFICATION FOR CONCRETE SUBJECT TO ALKALI-SILICA REACTIONS" (2007 PORTLAND CEMENT ASSOCIATION). ALTERNATIVELY, SUBMIT ASTM C1567 TEST REPORTS INDICATING THAT THE COMBINATION OF MIX INGREDIENTS REDUCES THE EXPANSION DUE TO ALKALI AGGREGATE REACTIVITY SUCH THAT THE MIX COMPLIES WITH SECTION 5.2 OF "GUIDE SPECIFICATION FOR CONCRETE SUBJECT TO ALKALI-SILICA REACTIONS" (2007 PORTLAND CEMENT ASSOCIATION). ALL TESTS FOR SUBMITTED REPORTS SHALL HAVE BEEN PERFORMED WITHIN ONE YEAR OF THE SUBMITTAL DATE.

3) REINFORCING MATERIALS:

3A) TYPICAL REINFORCING: ASTM A615, GRADE 60

3B) WELDED AND/OR FIELD BENT REINFORCING: ASTM A706, GRADE 60

3C) WELDED WIRE REINFORCING (SMOOTH) ASTM A1064

4) REINFORCING FABRICATION:

4A) SPLICES:
- NO SPLICING OF REINFORCEMENT PERMITTED EXCEPT AS NOTED ON DRAWINGS. MAKE BARS CONTINUOUS AROUND CORNERS WHERE DETAIL NOT PROVIDED. WHERE PERMITTED, SPLICES MAY BE MADE BY CONTACT LAPS OR MECHANICAL CONNECTORS.
- SEE 'LAP SPLICE SCHEDULE' FOR LAP LENGTHS.
- SPLICE CONTINUOUS TOP AND BOTTOM BARS IN WALLS, AND BEAMS 'LTS' UNLESS NOTED OTHERWISE.
- SPLICE TOP BARS AT MIDSPAN AND BOTTOM BARS OVER SUPPORT UNLESS NOTED OTHERWISE.

4B) MISCELLANEOUS REINFORCING REQUIREMENTS:
- PROVIDE ADDITIONAL BARS OR STIRRUPS REQUIRED TO SECURE REINFORCING IN PLACE DURING CONCRETE PLACEMENT.
- MAKE ALL REINFORCING BAR BENDS IN THE FABRICATOR'S SHOP UNLESS NOTED.
- NO WELDING OF REINFORCING PERMITTED UNLESS NOTED ON DRAWINGS.
- PROVIDE ADDED REINFORCING TO TRIM ALL OPENINGS, NOTCHES, AND REENTRANT CORNERS AS NOTED IN TYPICAL DETAILS.

5) PLACING REINFORCEMENT:

5A) REINFORCEMENT PROTECTION:
- SEE 'REBAR COVER TABLE'
- SEE ACI 117-10 FOR REINFORCEMENT PLACING TOLERANCES

5B) COMPLY WITH CRSI'S "MANUAL OF STANDARD PRACTICE" FOR PLACING REINFORCEMENT.

5C) PROVIDE ACCESSORIES NECESSARY TO PROPERLY SUPPORT REINFORCING AND WELDED WIRE REINFORCEMENT AT POSITIONS SHOWN ON PLANS. ALL REINFORCING, DOWELS, BOLTS, AND EMBEDDED PLATES SHALL BE SET AND TIED IN PLACE BEFORE THE CONCRETE IS POURED. "STABBING" INTO PREVIOUSLY PLACED CONCRETE IS NOT PERMITTED.

6) STRUCTURAL CONCRETE MIX REQUIREMENTS:

6A) SEE 'CONCRETE MIX TABLE'

7) CONCRETE MIXING

7A) READY-MIXED CONCRETE: MEASURE, BATCH, MIX AND DELIVER CONCRETE ACCORDING TO ASTM C 94, ASTM C 1116, FURNISH BATCH TICKET INFORMATION.

7B) PROTECT FRESHLY PLACED CONCRETE FROM PREMATURE DRYING AND EXCESSIVE COLD OR HOT TEMPERATURES. COMPLY WITH ACI 306.1 FOR COLD-WEATHER PROTECTION AND ACI 301 FOR HOT-WEATHER PROTECTION DURING CURING.

8) ADMIXTURES:

8A) ADMIXTURES SHALL MEET THE FOLLOWING ASTM STANDARDS:
- AIR-ENTRAINING ADMIXTURE: ASTM C 260
- WATER REDUCING ADMIXTURE: ASTM C494 TYPE A
- RETARDING ADMIXTURES: ASTM C494 TYPE B
- WATER REDUCING AND RETARDING ADMIXTURE: ASTM C494 TYPE D
- HIGH-RANGE, WATER-REDUCING ADMIXTURE: ASTM C494 TYPE F
- HIGH-RANGE, WATER-REDUCING AND RETARDING ADMIXTURE: ASTM C 494 TYPE G.
- PLASTICIZING AND RETARDING ADMIXTURE: ASTM C 1017/C 1017M, TYPE II.
- MID-RANGE WATER REDUCING ADMIXTURE: ASTM C 494/C 494M, TYPE A.

9) FIBER

9A) SYNTHETIC MACRO-FIBER: POLYOLEFIN MACRO-FIBERS COMPLYING WITH ASTM C1116 TYPE III 1 INCH TO 2 ¼ INCHES.

10) CURING MATERIALS

10A) WATERBORNE, MONMOLECULAR FIRM FORMING, MANUFACTURED FOR APPLICATION TO FRESH CONCRETE.

10B) ABSORPTIVE COVER: AASHTO M 182 CLASS 2 BURLAP CLOTH MADE FROM JUTE OR KENAF WEIGHTING APPOXIMATELY 9 OZ/SQUARE YARD WHEN DRY.

10C) MOISTURE-RETAINING COVER: ASTM C 171 POLYEGHYLENE FILM OR WHITE BURLAP-POLYEGHYLENE SHEET.

11) FORMWORK

11A) DESIGN, ERECT, SHORE, BRACE, AND MAINTAIN FORMWORK, ACCORDING TO ACI 301, TO SUPPORT VERTICAL, LATERAL, STATIC, AND DYNAMIC LOADS, AND CONSTRUCTION LOADS THAT MIGHT BE APPLIED, UNTIL STRUCTURE CAN SUPPORT SUCH LOADS.

11B) CONSTRUCT FORMWORK SO CONCRETE MEMBERS AND STRUCTURES ARE OF SIZE, SHAPE, ALIGNMENT, ELEVATION, AND POSITION INDICATED, WITHIN TOLERANCE LIMITS OF ACI 117.

11C) FORMWORK FOR SIDES OF BEAMS, WALLS, COLUMNS AND SIMILAR PARTS OF WORK THAT DO NOT SUPPORT WEIGHT OF CONCRETE MAY BE REMOVED AFTER CUMULATIVELY DURING AT NOT LESS THAN 50 DEGREES F FOR 24 HOURS AFTER CONCRETE PLACEMENT. CONCRETE MUST BE HARD ENOUGH TO NOT BE DAMAGED BY FORM REMOVAL PROCESS.

11D) COMPLY WITH ACI 318 AND ACI 301 FOR DESIGN, INSTALLATION AND REMOVAL OF SHORING. DO NOT REMOVE SHORING BEFORE CONCRETE IS A MINIMUM OF 15 DAYS OLD AND A MINIMUM OF 75 PERCENT F'c.

12) EMBEDDED ITEMS

12A) PLACE AND SECURE ANCHORAGE DEVISED AND OTHER EMBEDDED ITEMS REQUIRED FOR ADJOINING WORK THAT IS ATTACHED TO OR SUPPORTED BY CAST-IN-PLACE CONCRETE. USE SETTING DRAWINGS, TEMPLATES, DIAGRAMS INSTRUCTIONS AND DIRECTIONS FURNISHED WITH ITEMS TO BE EMBEDDED.

12B) INSTALL ANCHOR RODS, ACCURATELY LOCATED, TO ELEVATIONS REQUIRED AND COMPLYING WITH TOLERANCES IN SECTION 7.5 OF AISC 303 "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES." ANCHOR RODS TO BE F1554 GRADE 55, (Fy = 55 KSI, Fu = 75 KSI), WELDABLE & HEAVY HEX HEADED

12C) TOLERANCE OF EMBEDDED ITEMS: COMPLY WITH ACI 117.
- ANCHOR ROD PLUMBNESS: WITHIN +/- 1/16 INCH OVER ANCHOR ROD PROJECTION.
- EMBEDDED PLATES AND WELDMENTS: WITHIN +/- 1 INCH VERTICAL AND HORIZONTAL; WITHIN ¼ INCH IN 12 INCHES OF PLUMB.

13) SLAB-ON-GRADE:

13A) VERIFY ALKALINITY OF CONCRETE SURFACE, SLAB VAPOR TRANSMISSION, AND SLAB FLATNESS/LEVELNESS ARE COMPATIBLE WITH FLOORING SYSTEM AND ADHESIVES PRIOR TO INSTALLING FLOORING.

13B) TAKE PRECAUTIONS TO MINIMIZE SLAB CURLING. GRIND SLAB OR USE LEVELING COMPOUND IF FLOOR FLATNESS AND LEVELNESS VALUES ARE NOT ACCEPTABLE TO THE ARCHITECT.

13C) GC TO COORDINATE FINAL FF AND FL VALUES WITH OWNER PRIOR TO BID

14) NON-SHRINK GROUT:

14A) CONFORM TO ASTM C1107

14B) ACHIEVE 6000 PSI COMPRESSIVE STRENGTH AT 28 DAYS.

15) CONSTRUCTION/CONTROL JOINTS:

15A) CONSTRUCTION JOINT LOCATIONS AND CASTING SEQUENCE SHALL BE ARRANGED TO MINIMIZE THE EFFECTS OF ELASTIC AND LONG-TERM SHORTENING/SHRINKAGE.

15B) CONSTRUCTION JOINTS IN SLABS-ON-GRADE SHALL BE LOCATED TO ACCOMMODATE THE MAXIMUM LENGTH AND AREA THE CONTRACTOR CAN REASONABLY POUR, FINISH, AND JOINT IN THE SAME DAY, BUT SHALL NOT EXCEED 150 FEET WITH A MAXIMUM AREA OF 15,000 SQUARE FEET UNLESS APPROVED BY THE ENGINEER.

15C) CONCRETE CONSTRUCTION JOINT SURFACE SHALL BE CLEANED AND ALL LAITANCE AND LOOSE MATERIAL REMOVED PRIOR TO SECOND CONCRETE PLACEMENT.

15D) SHEAR FRICTION JOINTS: WHERE CONSTRUCTION JOINTS ARE LABELED AS "ROUGHENED" ON THE DRAWINGS, THE ENTIRE JOINT SURFACE SHALL BE MECHANICALLY ROUGHENED TO A 1/4" AMPLITUDE AND THOROUGHLY CLEANED. EXPOSE THE COARSE AGGREGATE IN THE HARDENED CONCRETE AND REMOVE ALL LAITANCE AND LOOSE MATERIAL.

16) SLEEVES, OPENINGS, AND EMBEDED PIPE/CONDUITS:

16A) GENERAL
- REFER TO TYPICAL DETAILS FOR REQUIREMENTS FOR CONDUIT AND PIPE EMBEDDED IN WALLS AND SLABS
- REFER TO TYPICAL DETAILS FOR SPACING AND LAYOUT LIMITATIONS FOR SLEEVES AND OPENINGS
- FORM OPENINGS AND PROVIDE SLEEVES BEFORE PLACING CONCRETE, CORING OF CONCRETE IS NOT PERMITTED

16B) REINFORCING
- REFER TO TYPICAL DETAILS FOR REINFORCEMENT REQUIREMENTS AT SLEEVES, OPENINGS OR CONDUIT
- DO NOT CUT REINFORCING WHICH MAY CONFLICT

17) CONCRETE SURFACE REPAIRS:

17A) DEFECTIVE CONCRETE: REPAIR AND PATCH DEFECTIVE AREAS WHEN APPROVED BY ARCHITECT. REMOVE AND REPLACE CONCRETE THAT CANNOT BE REPAIRED AND PATCHED TO ARCHITECT'S APPROVAL, SUBMIT REPAIR LOCATION AND SECURE ARCHITECTS APPROVAL PRIOR TO PERFORMING REPAIR.

17B) PATCHING MORTAR: MIX DRY-PACK PATCHING MORTAR, CONSISTING OF ONE PART PORTLAND CEMENT TO TWO AND ONE-HALF PARTS FINE AGGREGATE PASSING A NO. 16 SIEVE, USING ONLY ENOUGH WATER FOR HANDLING AND PLACING.

18) MODIFICATIONS TO HARDENED OR EXISTING CONCRETE

18A) UNLESS NOTED ON THE STRUCTURAL DOCUMENTS MODIFICATIONS AS LISTED BELOW SHALL NOT BE MADE TO HARDENED OR EXISTING CONCRETE WITHOUT APPROVAL OF THE ENGINEER AND ARCHITECT:
- SAW CUTTING
- CORING
- CHIPPING

18B) DO NOT CUT OR DAMAGE ANY REINFORCING WITHOUT APPROVAL OF THE ENGINEER.

CONCRETE MIX - TABLE

CONC MIX TYPE	INTENDED USE	28 DAY STRENGTH f'c (KSI)	CONC WEIGHT	MAX W/C RATIO, INCLUDING FLY ASH	MAX AGGREGATE SIZE, IN (ASTM C33)	TOTAL AIR CONTENT (%), NOTE a	OTHER REQTS, NOTE b
1	FOOTINGS AND FOUNDATIONS	4.0	NWC	0.5	1 (#57)	6	-
2	SLAB ON GRADE	4.0	NWC	-	1 (#57)	NP	-
3	ALL CONC OTHERWISE NOT SPECIFIED	4.0	NWC	0.50	3/4 (#67)	6	-

CONCRETE MIX TABLE NOTES:

PROPORTIONS OF MATERIALS IN CONCRETE MIX SHALL BE ESTABLISHED TO:

- PROVIDE THE MINIMUM COMPRESSIVE STRENGTH AS INDICATED IN THE MIX TABLE. DO NOT EXCEED THE MAXIMUM WATER-CEMENT RATIO NOTED.

- PROVIDE WORKABILITY AND CONSISTENCY TO PERMIT CONCRETE TO BE WORKED READILY INTO FORMS AND AROUND REINFORCEMENT UNDER CONDITIONS OF PLACEMENT TO BE EMPLOYED, WITHOUT SEGREGATION OR EXCESSIVE BLEEDING. CONTRACTOR SHALL SELECT APPROPRIATE SLUMP. USE ADMIXTURES AS REQUIRED TO OBTAIN DESIRED RESULTS.

USE TYPE II, IIA, OR V PORTLAND CEMENT UNLESS NOTED OTHERWISE, SEE GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION. FOR CONCRETE MIXES USED ON FLOORS MINIMUM CEMENTITIOUS CONTENT SHALL BE 540 POUNDS PER CUBIC YARD

FOR CONCRETE PLACED BY PUMPING PROVIDE CONCRETE MIX FLOWABILITY TO FACILITATE PUMPING. ENTRAINED AIR MAY BE USED TO FACILITATE PUMPING SUBJECT TO THE PROVISIONS OF NOTE b BELOW.

a. WHERE AIR CONTENT IS INDICATED IN THE MIX TABLE, PROVIDE AIR ENTRAINING ADMIXTURE. TOTAL AIR CONTENT LIMITS INCLUDE BOTH ENTRAINED AND ENTRAPPED AIR +/- 1 1/2%. 'NP' IN COLUMN INDICATES ADDITION OF ENTRAINED AIR IS NOT PERMITTED EXCEPT WHERE CONTRACTOR CAN DEMONSTRATE THAT SLABS WITH ENTRAINED AIR WILL HAVE A FINISH ACCEPTABLE TO THE ARCHITECT WITHOUT BLISTERS. AIR CONTENT NOTED IS BASED ON 3/4" AGGREGATE. IF 3/8" AGGREGATE IS USED, INCREASE AIR CONTENT BY 1 1/2%.

ALKALI SILICA REACTION (ASR):

ALKALI- AGGREGATE REACTIVITY OF AGGREGATES: SUBMIT TEST REPORTS INDICATING THAT AGGREGATES ARE NOT POTENTIALLY REACTIVE BASED ON ASTM C295 OR ASTM 1260 TESTING LIMITS SET FORTH IN SECTION 5.1 OF "GUIDE SPECIFICATION FOR CONCRETE SUBJECT TO ALKALI-SILICA REACTIONS" (2007 PORTLAND CEMENT ASSOCIATION). ALTERNATIVELY, SUBMIT ASTM C1567 TEST REPORTS INDICATING THAT THE COMBINATION OF MIX INGREDIENTS REDUCES THE EXPANSION DUE TO ALKALI AGGREGATE REACTIVITY SUCH THAT THE MIX COMPLIES WITH SECTION 5.2 "GUIDE SPECIFICATION FOR CONCRETE SUBJECT TO ALKALI-SILICA REACTIONS" (2007 PORTLAND CEMENT ASSOCATION). ALL TESTS FOR SUBMITTED REPORTS SHALL HAVE BEEN PERFORMED WITHIN ONE YEAR OF THE SUBMITTAL DATE.

REBAR COVER TABLE

CASE	COVER (IN)
CONCRETE PLACED AGAINST EARTH	3
CONCRETE PLACED IN FORMS, EXPOSED TO WEATHER OR EARTH, #5 AND SMALLER	1 1/2
SLABS OR WALLS NOT EXPOSED TO EARTH OR WEATHER	1

LAP SPLICE AND DEVELOPMENT LENGTH SCHEDULE (INCHES)

BAR SIZE (IN-LB)	F'c = 4,000 PSI THRU 4,500 PSI						
	COMP		TENSION				
	LCE	LCS	LDH	LTE TOP	LTE OTHER	LTS TOP	LTS OTHER
#3	8	12	6	19	14	24	18
#4	10	15	7	25	19	32	25
#5	12	19	8	31	24	40	31

GENERAL NOTES:
1. 'LCE' = COMPRESSION EMBEDMENT LENGTH
   'LCS' = COMPRESSION LAP SPLICE LENGTH
   'LDH' = HOOK DEVELOPMENT LENGTH
   'LTE' = TENSION EMBEDMENT LENGTH
   'LTS' = TENSION LAP SPLICE LENGTH
2. 'TOP' BARS ARE HORIZONTAL BARS PLACED SUCH THAT MORE THAN 12 IN OF FRESH CONCRETE IS CAST BELOW THE BAR
3. ALL BARS THAT ARE NOT 'TOP' BARS ARE 'OTHER' BARS
4. UNLESS NOTED OTHERWISE, ALL HOOK BARS SHALL EXTEND TO THE FAR FACE (LESS 2" COVER)

LAP SPLICE NOTES:
1. ALL SPLICES SHALL BE WIRED IN CONTACT. TOP AND BOTTOM BEAM SPLICES SHALL BE STACKED VERTICALLY
2. ALL SPLICES ARE 'LTS' UNLESS NOTED OTHERWISE
3. SMALLER BAR LAP LENGTH SHALL BE USED WHEN SPLICING DIFFERENT SIZED BARS
   A. COMPRESSION LAP LENGTH SHALL NOT BE LESS THAN 'LCE' OF THE LARGER BAR
   B. TENSION LAP LENGTH SHALL NOT BE LESS THAN 'LTE' OF THE LARGER BAR
4. LAP LENGTHS SPECIFICALLY DETAILED ON DRAWINGS SHALL GOVERN IN LIEU OF LAP LENGTHS SCHEDULED.
5. IF A NOTE OR DETAIL CALLS FOR A BAR TO BE EMBEDDED Ld (DEVELOPMENT LENGTH) INTO CONCRETE, THIS LENGTH SHALL CORRESPOND TO A 'LTE' LAP

ADJUSTMENTS TO GIVEN LENGTHS:
1. SCHEDULED LENGTHS ASSUME:
   A. CLEAR COVER IS GREATER THAN 1.5xBAR DIAMETER, BUT NOT LESS THAN 3/4"
   B. CLEAR SPACING BETWEEN BARS IS GREATER THAN 2 BAR DIAMETERS
   C. IF EITHER CONDITION A OR B IS NOT MET FOR A GIVEN BAR, INCREASE LENGTHS BY 50%
2. LENGTHS NOTED BASED ON Fy = 60,000 PSI. FOR OTHER YIELD STRENGTHS, MULTIPLY LENGTHS NOTED BY Fy/60,000
3. IF DEVELOPMENT OR LAP LENGTH IS SHOWN, BUT CANNOT BE ACHIEVED, EXTEND BAR TO FAR FACE (LESS 2" COVER) OF CONCRETE

HOOK EMBEDMENT NOTES:
1. SCHEDULED HOOK EMBEDMENT LENGTHS ASSUME:
   A. SIDE COVER IS 2 1/2 INCHES OR GREATER
   B. COVER BEYOND IS 2 INCHES OR GREATER
2. IF REINFORCING IS SPECIFIED AS EPOXY COATED, INCREASE SCHEDULED LENGTHS BY 20%
3. IF LIGHTWEIGHT AGGREGATE IS SPECIFIED, INCREASE SCHEDULED LENGTHS BY 30%
4. IF SIDE COVER IS LESS THAN 2 1/2 INCHES, INCREASE LENGTHS BY 40%.

REINFORCING MATERIAL TABLE

REINF ELEMENT	ASTM	Fy (KSI)	Fu (KSI)	COMMENTS
TYP REINFORCING	A615	60	90	-
WELDED	A706	60	80	-
WELDED WIRE REINFORCING, SMOOTH	A1064	65	75	-
WELDED WIRE REINFORCING, DEFORMED	A1064	70	80	-
EPOXY COATING OF REINFORCING	A775 OR A934	-	-	-

REVISION SCHEDULE

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NEW RECTORY AT HOLY SPIRIT CATHOLIC COMMUNITY

ROCK SPRINGS, WYOMING

APN: 25-035 | Date Issued: 4/22/2026
Drawn By: MMWYO | Checked By: AM
Sheet Title: NOTES
Sheet Number: S-002

DESIGNERS: Enter Designer's Name Here
LEAD REVIT TECH: Enter Lead Revit Tech's Name Here
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PROJECT MANAGER: Enter PM's Name Here

QUALITY ASSURANCE GENERAL NOTES & STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS AND TESTING

1) GENERAL

1A) SCOPE OF WORK
- THE OWNER WILL ENGAGE A QUALIFIED INSPECTION AND TESTING AGENCY(S) TO PERFORM SPECIAL INSPECTIONS AND TESTING FOR ALL STRUCTURAL MEMBERS AND ASSEMBLIES AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION REQUIRED BY IBC 2024.
- REFER TO ARCH/MECH/ELEC/CIVIL SPECIFICATIONS AND DRAWINGS FOR ADDITIONAL SPECIAL INSPECTION AND TESTING THAT MAY BE REQUIRED.
- SPECIAL INSPECTIONS AND TESTING ARE APPLICABLE TO ALL REVISIONS AND/OR FUTURE WORK ADDED BY AMENDMENTS TO THESE DOCUMENTS.

1B) DEFINITIONS
- SPECIAL INSPECTOR: THE AGENCY ENGAGED BY THE OWNER AND APPROVED BY THE AUTHORITY HAVING JURISDICTION TO ACT AS THE DESIGNATED REPRESENTATIVE TO PERFORM INSPECTIONS.
- SPECIAL INSPECTION: INSPECTION PERFORMED BY THE SPECIAL INSPECTOR ACCORDING TO IBC 2024 SECTION 1704 TO ENSURE COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS.

1C) DEFICIENCIES IN WORK
- CORRECT DEFICIENCIES IN WORK THAT TESTS AND INSPECTIONS INDICATE DO NOT COMPLY WITH THE CONTRACT DOCUMENTS AND REFERENCED STANDARDS.
- ALL COST OF ADDITIONAL TESTING AND/OR INSPECTIONS FOR CORRECTIVE WORK SHALL BE BORNE BY THE CONTRACTOR.

2) INSPECTION AND TESTING

2A) REQUIRED SPECIAL INSPECTIONS AND TESTS SHALL BE AS INDICATED IN IBC 2024 SECTION 1705, INCLUDING, BUT NOT LIMITED TO: STEEL, CONCRETE, CONCRETE REINFORCING AND WOOD FRAMING.

2B) ADDITIONAL SPECIAL INSPECTIONS AND TESTS SHALL BE THOSE REQUIRED BY THE AUTHORITY HAVING JURISDICTION AND THOSE INDICATED IN THIS SECTION.

2C) FOUNDATIONS, EXCAVATIONS, SUBGRADE AND FILL:
- IN ACCORDANCE WITH THE RECOMMENDATION AND REQUIREMENT OF THE REFERENCED GEOTECHNICAL REPORT .

2D) POST-INSTALLED ANCHORS/REINFORCED STEEL:
- VERIFICATION OF DIAMETER, LENGTH, FINISH, AND BASE MATERIAL FOR EACH ANCHOR IN ACCORDANCE WITH PRODUCT ICC-ES REPORT.
- PERIODIC INSPECTION DURING INSTALLATION TO VERIFY HOLE DIMENSIONS, HOLE CLEANING, EDGE DISTANCE AND SPACING, AND PRESENCE OF GROUT IN MASONRY IN ACCORDANCE WITH THE PRODUCT ICC ES-REPORT AND CONTRACT DOCUMENTS.
- 100% VISUAL INSPECTION OF EACH ANCHOR TO VERIFY QUANTITY, EDGE DISTANCES, AND ANCHOR FLUSH WITH AND PERPENDICULAR TO RECEIVING SURFACE.

FRAMING LUMBER SCHEDULE

TYPE OF USE	GRADE	Fb (PSI)	Fv (PSI)	E (PSI)
EXTERIOR STUDS	NO.2	850	150	1,300,000
LOAD BEARING STUDS (AND COLUMNS ASSEMBLED FROM STUDS)	NO.2	850	150	1,300,000
2x FLOOR AND ROOF JOISTS/RAFTERS	NO. 2	850	150	1,300,00
BEAMS AND STRINGERS	NO. 1	1,350	170	1,600,000
POSTS AND TIMBERS	NO. 1	1,200	170	1,600,000

FABRICATED LUMBER TABLE

PRODUCT	SIZE	TYPE	Fb (PSI)	Fv (PSI)	Ft (PSI)	E (KSI)	REMARKS
LAMINATED STRAND BEAM	--	LSL	2250	400	1075	1500	--
LAMINATED VENEER BEAM	--	LVL	2600	285	1555	1900	--

FABRICATED RIMBOARD TABLE

t(IN)	H(LB/FT) d ≤ 24"	W (LB/FT) d ≤ 16" / 16"< d ≤ 24"	Z (LB) d ≤ 24"	P (LB) d ≤ 24"
1 1/4 MIN	180	4400/3000	350	3500

FASTENER SCHEDULE

FASTENER	DIAMETER	HEAD DIAMETER	LENGTH
8d COMMON NAIL	0.131"	0.281"	2 1/2"
10d COMMON NAIL	0.148"	0.312"	3"
12d COMMON NAIL	0.148"	0.312"	3 1/4"
16d COMMON NAIL	0.162"	0.344"	3 1/2"
0.131"Ø NAIL	0.131"	0.281"	2 1/2"
8d BOX NAIL	0.113"	0.297"	2 1/2"
10d BOX NAIL	0.128"	0.312"	3"
12d BOX NAIL	0.128"	0.312"	3 1/4"
16d BOX NAIL	0.135"	0.334"	3 1/2"

APA RATED SHEATHING

PANEL SPAN RATING	PANEL THICKNESS
24/16	7/16"
32/16	15/32", 1/2"
40/20	19/32", 5/8"
48/24	23/32", 3/4"

WOOD NOTES

1) SUBMITTALS:

1A) PRODUCT DATA FOR EACH TYPE OF PRODUCT INDICATED

1B) FASTENER PATTERNS: FULL-SIZE TEMPLATES FOR FASTENERS IN EXPOSED FRAMING.

1C) SHOP DRAWINGS: SUBMIT SHOP DRAWINGS FOR ALL METAL FRAMING CONNECTORS AND WELDMENTS SHOWING DIMENSIONS, MATERIAL TYPE AND THICKNESS, HOLE SIZES AND LOCATIONS AND FASTENER SIZES AND LENGTHS, WELD SIZES AND LENGTHS, AND FINISHES. SUBMITS MANUFACTURERS CATALOG INFORMATION AND INSTALLATION INSTRUCTIONS FOR METAL FRAMING CONNECTIONS.

1D) MATERIAL CERTIFICATES FOR DIMENSION LUMBED WITH MINIMUM ALLOWABLE UNIT STRESSES. INDICATE SPECIES AND GRADE SELECTED FOR EACH USE AND DESIGN VALUES APPROVED BY ALSC BOARD OF REVIEW.

1E) RESEARCH/EVALUATION REPORTS FOR ENGINEERED WOOD PRODUCTS, POWER-DRIVEN FASTENERS, POWDER-ACTUATED FASTENERS, EXPANSION ANCHORS, AND METAL FRAMING ANCHORS.

1F) MANUFACTURERS DATA OR CERTIFICATION VERIFYING OSB CONFORMANCE AS LISTED ON DRAWINGS AND FABRICATED LUMBER AS LISTED IN DRAWINGS.

2) LAMINATED MEMBER SIZES:

2A) (LVL, PSL, LSL), AND OTHER FABRICATED MEMBERS (TJI) SIZES SHOWN ARE NET. OTHER MEMBER SIZES ARE NOMINAL.

3) FRAMING LUMBER:

3A) DRY (19% MAXIMUM MOISTURE CONTENT AT THE TIME OF INSTALLATION), DOUGLAS FIR-LARCH HEM-FIR WITH MINIMUM DESIGN VALUES BASED ON THE 2024 NDS. SEE 'FRAMING LUMBER TABLE' FOR MINIMUM GRADES.

3B) BEAMS AND STRINGERS USED WITH CANTILEVERS OR CONTINUOUS SPANS SHALL BE GRADED TO PROVIDE THE SPECIFIED ALLOWABLE STRESSES OVER THE ENTIRE MEMBER LENGTH.

4) FABRICATED LUMBER:

4A) FABRICATED LUMBER DESIGNATIONS ARE THOSE MANUFACTURED BY iLEVEL, BOISE, IDAHO.

4B) FABRICATED LUMBER IS DESIGNATED ON THE DRAWINGS AS ONE OF THE FOLLOWING: TJI JOISTS, MICROLLAM (LVL), PARALLAM (PSL), TIMBERSTRAND (LSL) OR RIMBOARD.

4C) THE MANUFACTURER SHALL PROVIDE WEB STIFFENERS ON I-JOISTS, END BLOCKING, BRIDGING, AND ERECTION BRACING AS REQUIRED. SEE "DESIGN CRITERIA" FOR DESIGN DEAD AND LIVE LOADS.

4D) FABRICATED LUMBER SHALL BE DRY.

4E) SEE 'FABRICATED LUMBER TABLE' FOR MINIMUM PROPERTIES (AT NORMAL LOAD DURATIONS).

4F) FABRICATED RIMBOARD SHALL BE LAMINATED STRAND LUMBER.

5) SHEATHING:

5A) PLYWOOD:
- CONFORM TO U.S. DEPARTMENT OF COMMERCE STANDARD PS 1-10.

6) BLOCKING AND BRIDGING:

6A) PROVIDE 1" X 4" SIMPSON NC/NCA CROSS-BRIDGING AT 8' O.C. MAXIMUM SPACING FOR ALL SOLID SAWN WOOD JOISTS AND RAFTERS. PROVIDE FULL HEIGHT SOLID BLOCKING (MINIMUM WIDTH TO MATCH WIDTH OF FRAMING) BETWEEN ALL FRAMING MEMBERS (SOLID SAWN JOISTS AND RAFTERS, FABRICATED JOISTS AND RAFTERS AND TRUSSES) AT SUPPORTS.

7) NAILING & BOLTING:

7A) UNLESS NOTED OTHERWISE ON THE DRAWINGS, PROVIDE BOX NAILS COMMON NAILS SINKERS WITH SIZES SHOWN IN THE TABLE BELOW. MINIMUM NAILING SHALL BE IN ACCORDANCE WITH THE TYPICAL WOOD CONNECTION SCHEDULE AND IBC 2024 TABLE 2304.10.2

7B) WHERE COMMON NAILS ARE SPECIFIED, BOX NAILS OF EQUAL LENGTH MAY BE SUBSTITUTED PROVIDED ONE BOX NAIL IS ADDED FOR EVERY THREE COMMON NAILS SPECIFIED.

7C) THROUGH BOLTS TO BE F1554 GRADE 55, (Fy = 55 KSI, Fu = 75 KSI), WELDABLE & HEAVY HEX HEADED

8) METAL CONNECTORS:

8A) FRAMING CONNECTORS SHALL CONFORM TO IBC 2024 SECTION 2303.5 FRAMING CONNECTOR DESIGNATIONS ARE THOSE MANUFACTURED BY SIMPSON STRONG-TIE COMPANY, SAN LEANDRO, CALIFORNIA. OTHER MANUFACTURER'S PRODUCTS MAY BE USED IF APPROVED BY THE ENGINEER. FURNISH NAILS AND/OR BOLTS OF DIAMETER, LENGTH, AND NUMBER SPECIFIED BY THE MANUFACTURER FOR EACH CONNECTOR.

8B) ALL CONNECTOR HOLES SHALL BE FILLED WITH PROPER NAILS/BOLTS INCLUDING OPTIONAL NAIL LOCATIONS FOR UPLIFT. ALL BOLT HOLES SHALL BE DRILLED INTO FRAMING MEMBERS. MAXIMUM HOLE DIAMETER IS 1/16" LARGER THAN THE BOLT DIAMETER.

9) OPENINGS:

9A) OPENING, POCKETS, ETC., SHALL NOT BE PLACED IN BEAMS, JOISTS, RAFTERS, STUDS, POSTS, COLUMNS, TIMBER AND OTHER STRUCTURAL MEMBERS UNLESS DETAILED ON THE STRUCTURAL DRAWINGS.

10) ROOF TRUSS AND FRAMING:

10A) WOOD ROOF TRUSS SUPPLIER SHALL SUBMIT SHOP DRAWINGS, DETAILS, MANUFACTURER LITERATURE FOR TRUSS TO TRUSS, OR TRUSS TO WALL CONNECTIONS AND DESIGN CALCULATIONS FOR APPROVAL PER IBC 2024 SECTION 2303 AND SHALL BE PREPARED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF WYOMING.

10B) ROOF TRUSS DESIGNER SHALL DESIGN TRUSSES FOR LOADS IDENTIFIED IN THE DESIGN CRITERIA OR AS NOTED IN THE DRAWINGS AND DETAILS.

10C) COMPLY WITH APPLICABLE REQUIREMENTS AND RECOMMENDATIONS OF THE FOLLOWING PUBLICATIONS:
- TPI 1, "NATIONAL DESIGN STANDARD FOR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCTION."
- TPI DSB, "RECOMMENDED DESIGN SPECIFICATION FOR TEMPORARY BRACING OF METAL PLATE CONNECTED WOOD TRUSSES."
- TPI BCSI, "BUILDING COMPONENT SAFETY INFORMATION: GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING, RESTRAINING, & BRACING METAL PLATE CONNECTED WOOD TRUSSES."

10D) TRUSS TOP CHORD MEMBERS SHALL BE A MINIMUM OF 2x6 MEMBERS AND BOTTOM CHORD MEMBERS SHALL BE A MINIMUM OF 2x6 MEMBERS, HEM-FIR NO. 2 OR BETTER OR AS NOTED IN THE DRAWINGS. SEE DETAILS, SPECIFICATIONS AND DETAILS FOR ADDITIONAL REQUIREMENTS.

10E) WEB LAYOUT IN TRUSS PROFILES AND DETAILS ARE FOR GRAPHICAL REPRESENTATION ONLY.

10F) RAFTERS AND OVER FRAMING SHALL BE DIMENSIONAL LUMBER AND SHALL CONFORM TO THE RAFTER AND OVERFRAMING SPAN TABLES OF IBC 2024 TABLES 2308.11.2(3) THROUGH 2308.11.2(5), UNLESS NOTED OTHER WISE. REQUIRED RATING FOR UPLIFT CONNECTIONS SHALL CONFORM TO IBC 2024 TABLE 2308.11.4. OR AS NOTED ON DRAWINGS.

10G) INSTALL WOOD TRUSSES ONLY AFTER SUPPORTING CONSTRUCTION IS IN PLACE AND IS BRACED AND SECURED.

10H) DO NOT ALTER TRUSS IN FIELD. DO NOT CUT, DRILL, NOTCH, OR REMOVE TRUSS MEMBERS. REPLACE WOOD TRUSSES THAT ARE DAMAGED OR DO NOT MEET REQUIREMENTS.

10I) PROTECT WOOD TRUSSES FROM WEATHER.

REVISION SCHEDULE

Revision Number	Revision Description	Revision Date

NOTE:

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NEW RECTORY AT
HOLY SPIRIT CATHOLIC COMMUNITY

ROCK SPRINGS, WYOMING

APN: 25-035 | Date Issued: 4/22/2026
Drawn By: MMWYO | Checked By: AM
Sheet Title: NOTES
Sheet Number: S-003

DESIGNERS: Enter Designer's Name Here
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DATE PRINTED: 4/22/2026 5:32:36 PM
FILE PATH: Autodesk Docs://ACC-MM 526/25-035. Holy Spirit Catholic Community-Rectory_S26.rvt

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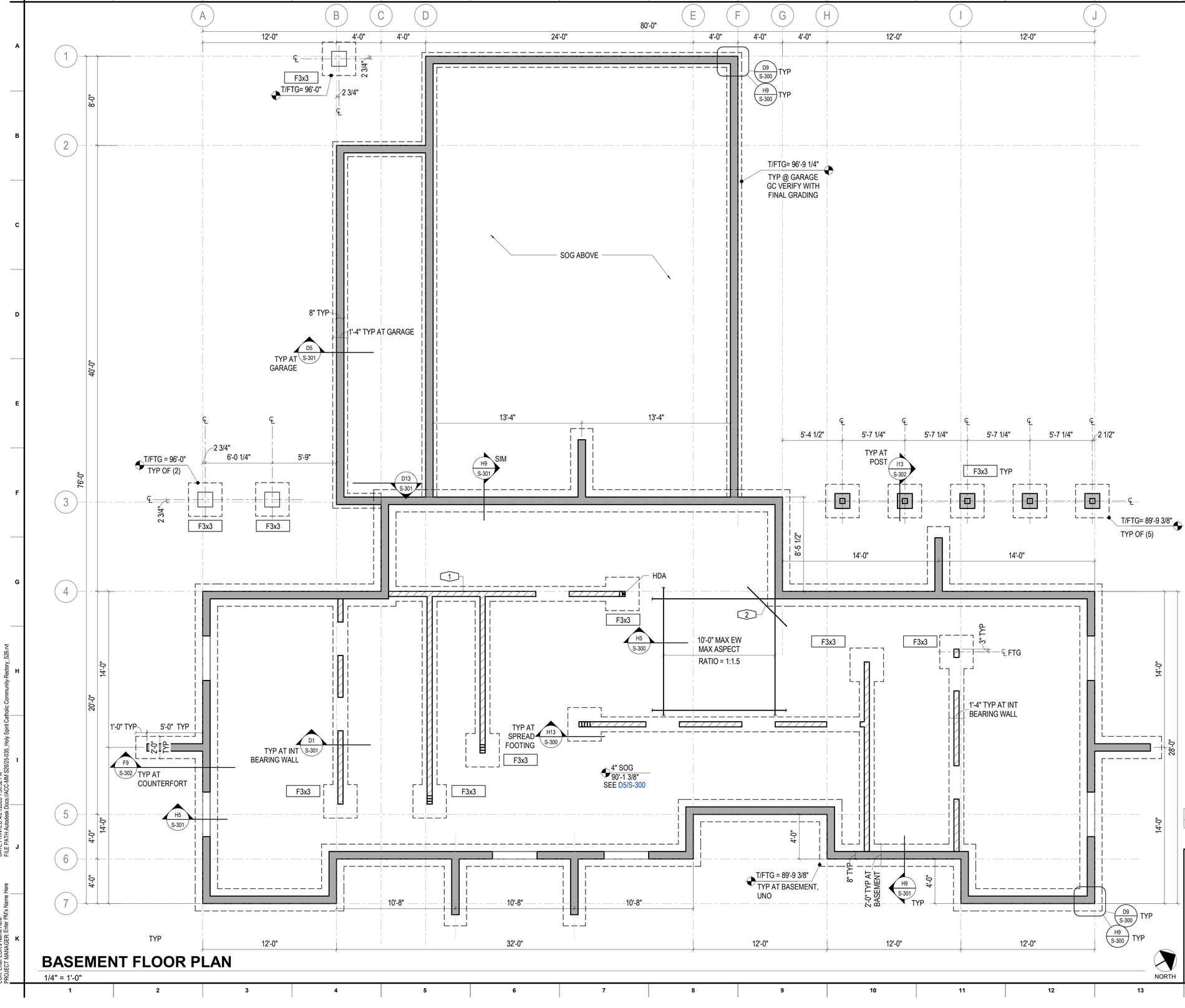

BASEMENT FLOOR PLAN

1/4" = 1'-0"

NORTH

FOUNDATION AND FRAMING NOTES:

1. **FOUNDATIONS AND BASEMENT WALLS:**
   - A. STRIP FOOTINGS ARE TO BE CENTERED ON FOUNDATION WALLS, TYP UNO.
   - B. SPREAD FOOTINGS ARE SHOWN F3x3 & TO BE CENTERED UNDER POSTS/COLUMNS, OR AS DIMENSIONED ON PLAN. SEE H13/S-300 UNO.
   - C. THE FIRST FLOOR SHEATHING MUST BE FULLY INSTALLED AND BLOCKED. PRIOR TO BACKFILLING EXTERIOR FOUNDATIONS.
   - D. B/ FTG TO BE 42" BELOW FINISH GRADE WITH THE EXCEPTION OF THE BASEMENT AND IS NOTED ON PLAN. GC TO COORDINATE EXTERIOR FOOTING ELEVATIONS WITH FINAL SITE FINISHES AND SLOPES. DROP FOOTINGS AS REQ'D.
   - E. FOR TYP HORIZ REINF AT FOUNDATION WALL CORNERS, SEE D9/S-300
2. **SLAB-ON-GRADE:**
   - A. SEE D5/S-300 FOR 4" SOG INFORMATION.
   - B. CONTRACTOR TO COORDINATE ALL SLAB SLOPES, SLAB DEPRESSIONS, CURBS, PADS, DRAINS AND THRESHOLDS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
   - C. CONTRACTOR TO COORDINATE VAPOR RETARDER/ BARRIER REQUIREMENTS AND LOCATIONS WITH ARCHITECTURAL DRAWINGS. CONTRACTOR SHALL INSTALL VAPOR RETARDER/BARRIER PER RECOMMENDATIONS OF PCA AND ACI 302.1R-04.
3. **WOOD FRAMING:**
   - A. FOR TYPICAL WALL FRAMING, SEE H5/S-600.
   - B. WOOD SHEARWALL HOLD DOWNS DENOTED THUS ON HD ON PLAN
   - C. PROVIDE TYPICAL NAILING PER IBC 2024. UNLESS NOTED OR DETAILED OTHERWISE.
   - D. DIMENSIONS OF WOOD WALLS ARE NOT SHOWN; SEE ARCH.
   - E. OPENINGS IN WOOD WALLS ARE NOT SHOWN, COORD WITH ARCH & MEP.

KEYNOTES:

1. SHEATH ONE SIDE OF ENTIRE WALL WITH STRUCTURAL SHEATHING, SEE H5/S-600
2. #3x6'-0" DIAGONAL TYP AT ALL RE-ENTRANT CORNERS. CENTER BAR ON CORNER.

REVISION SCHEDULE

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NEW RECTORY AT
HOLY SPIRIT CATHOLIC COMMUNITY

ROCK SPRINGS, WYOMING

APN: 25-035 | Date Issued: 4/22/2026
Drawn By: MMWYO | Checked By: AM
Sheet Title: FOUNDATION PLAN
Sheet Number: S-130

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DATE PRINTED: 4/22/2026 3:53:32 PM
FILE PATH: Autodesk Docs://ACC-MM S26/25-035, Holy Spirit Catholic Community-Rectory_S26.rvt

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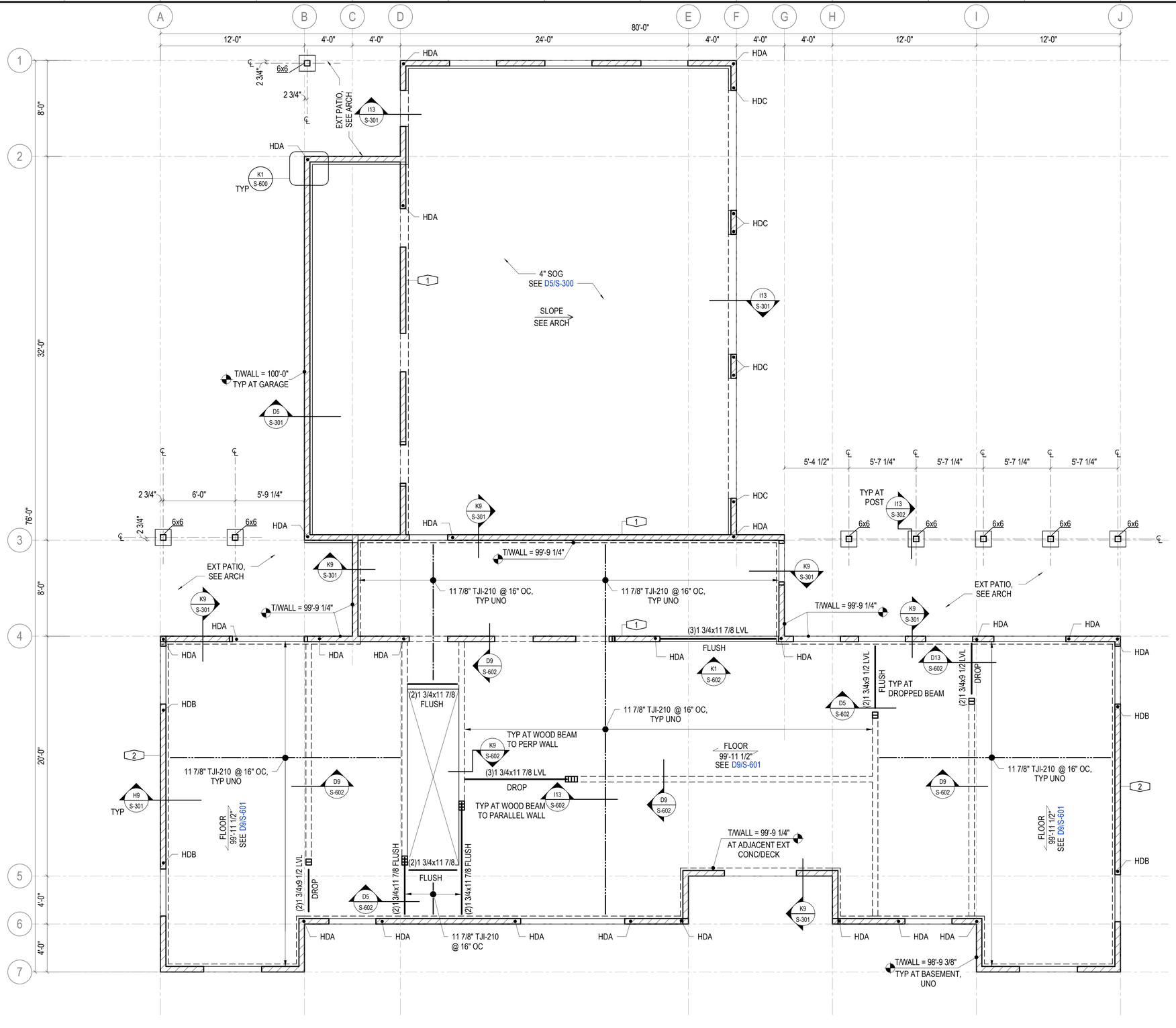

FIRST FLOOR PLAN

1/4" = 1'-0"

NORTH

FOUNDATION AND FRAMING NOTES:

1. **FOUNDATIONS AND BASEMENT WALLS:**
   - A. THE FIRST FLOOR SHEATHING MUST BE FULLY INSTALLED AND BLOCKED. PRIOR TO BACKFILLING EXTERIOR FOUNDATIONS.
2. **SLAB-ON-GRADE:**
   - A. SEE D5/S-300 FOR 4" SOG INFORMATION.
   - B. CONTRACTOR TO COORDINATE ALL SLAB SLOPES, SLAB DEPRESSIONS, CURBS, PADS, DRAINS AND THRESHOLDS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
   - C. CONTRACTOR TO COORDINATE VAPOR RETARDER/ BARRIER REQUIREMENTS AND LOCATIONS WITH ARCHITECTURAL DRAWINGS. CONTRACTOR SHALL INSTALL VAPOR RETARDER/BARRIER PER RECOMMENDATIONS OF PCA AND ACI 302.1R-04.
3. **WOOD FRAMING:**
   - A. FOR TYPICAL WALL FRAMING, SEE H5/S-600
   - B. SHEATH ALL EXTERIOR WALLS ON ONE SIDE, SEE H5/S-600
   - C. SEE D9/S-601 FOR FLOOR SHEATHING REQUIREMENTS
   - D. WOOD SHEARWALL HOLD DOWNS DENOTED THUS ON HDX —● ON PLAN
   - E. PROVIDE TYPICAL NAILING PER IBC 2024. UNLESS NOTED OR DETAILED OTHERWISE
   - F. DIMENSIONS OF WOOD WALLS ARE NOT SHOWN; SEE ARCH
   - G. OPENINGS IN WOOD WALLS ARE NOT SHOWN, COORD WITH ARCH & MEP
   - H. BRACE TOP OF INTERIOR PARTITION WALLS PER H13/S-601

KEYNOTES:

1. SHEATH ONE SIDE OF ENTIRE WALL WITH STRUCTURAL SHEATHING, SEE H5/S-600
2. WSWB SHEAR WALL, SEE H5/S-600

REVISION SCHEDULE

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NEW RECTORY AT HOLY SPIRIT CATHOLIC COMMUNITY

ROCK SPRINGS, WYOMING

APN: 25-035 | Date Issued: 4/22/2026
Drawn By: MMWYO | Checked By: AM
Sheet Title: MAIN LEVEL FLOOR PLAN
Sheet Number: S-131

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DATE PRINTED: 4/22/2026 7:53:03 PM
FILE PATH: Autodesk Docs://ACC-MM S26/25-035, Holy Spirit Catholic Community-Rectory_S26.rvt

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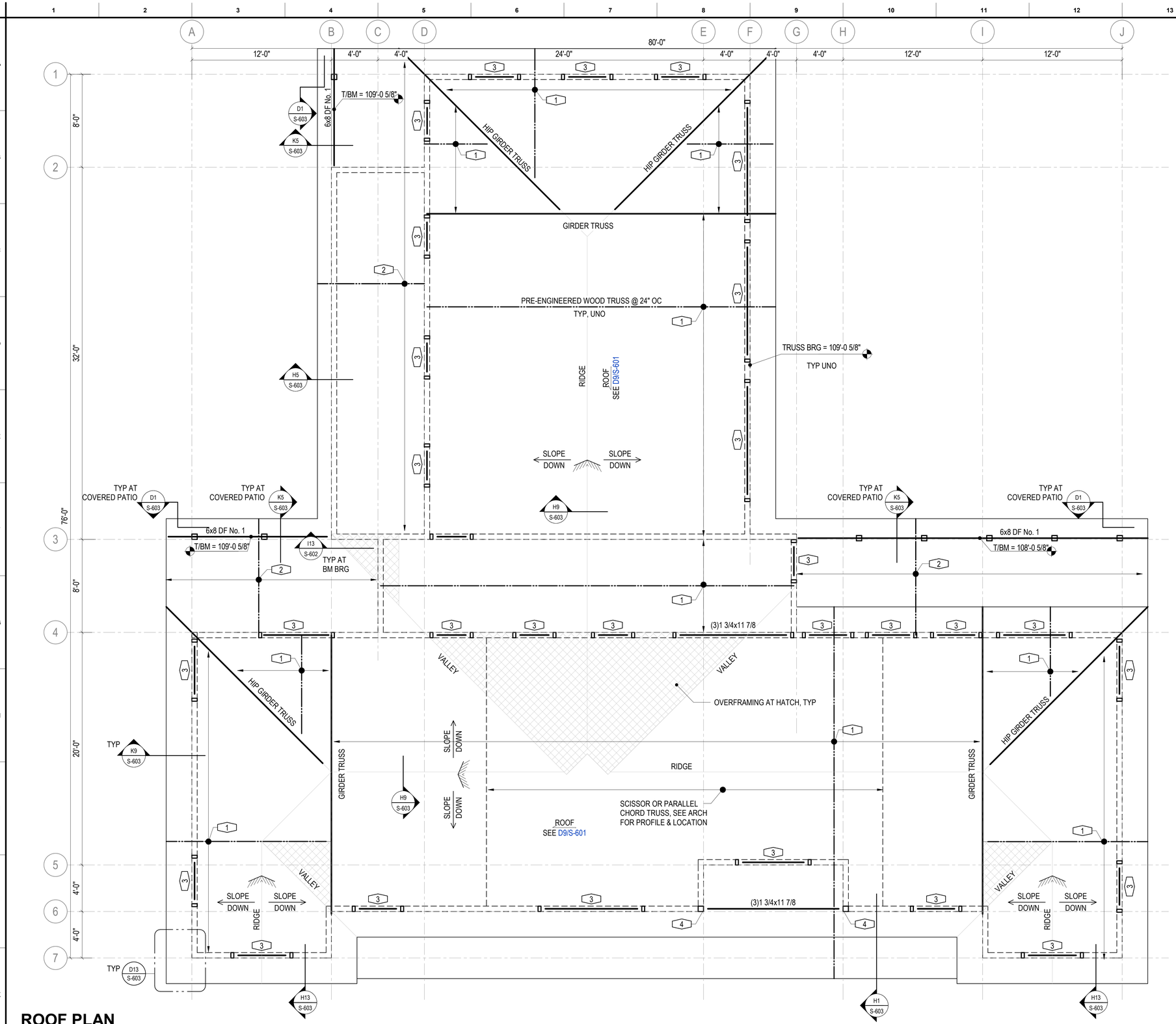

ROOF PLAN

1/4" = 1'-0"

NORTH

ROOF FRAMING NOTES:

1. **WOOD FRAMING:**
   - A. FOR TYPICAL WALL FRAMING, SEE H5/S-600
   - B. WALLS ARE WW-1 UNO.
   - C. SHEARWALLS ARE DENOTED THUS WSW# ON PLAN, SEE H5/S-600 FOR REQUIREMENTS.
   - D. DIMENSIONS OF WOOD WALLS ARE NOT SHOWN; SEE ARCH.
   - E. OPENINGS IN WOOD WALLS ARE NOT SHOWN, COORD WITH ARCH & MEP.
   - F. PROVIDE TYPICAL NAILING PER IBC 2024. UNLESS NOTED OR DETAILED OTHERWISE.
   - G. FOR TYP WOOD HEADER, SEE H1/S-600
   - H. SEE H13/S-601 FOR TOP OF PARTITION WALL CONNECTION TO ROOF TRUSSES.
2. **TRUSSES AND ROOF FRAMING:**
   - A. TRUSSES ARE SPACED AT 24" OC MAX
   - B. DIMENSIONS ARE TO CL OF MEMBERS, UNLESS NOTED OTHERWISE.
   - C. ALIGN WOOD TRUSS MEMBERS IN EACH TRUSS WITH ADJACENT TRUSS FULL WIDTH OF BUILDING TO FACILITATE MEP.
   - D. FOR TYPICAL TRUSS NOTES, SEE K1/S-601
   - E. OVERFRAMING INDICATED ON PLAN AS:
   - F. SEE ARCHITECTURAL DRAWINGS FOR ROOF GEOMETRY, SLOPES, AND EXTENTS OF PRE-ENGINEERED TRUSSES.
   - G. SEE ARCHITECTURAL DRAWINGS FOR ALL OVERHANGS AND ADDITIONAL SOFFIT DETAILS.
   - H. NOT ALL ROOF OPENINGS ARE SHOWN. CONTRACTOR SHALL COORDINATE ROOF OPENINGS WITH MECHANICAL AND ARCHITECTURAL DRAWINGS.
3. **ROOF SHEATHING:**
   - A. FOR TYPICAL ROOF SHEATHING SIZE TYPE AND FASTENER REQUIREMENTS, SEE D9/S-601
   - B. MINIMUM NOMINAL WIDTH OF NAILED FACE AT SUPPORTED EDGES AND BOUNDARIES IS 2".

KEYNOTES:

1. PRE-ENGINEERED WOOD TRUSS AT 24" OC MAX. SEE ARCH FOR TRUSS PROFILE & GEOMETRY.
2. 2x10 RAFTER OR PRE-ENGINEERED WOOD TRUSS AT 24" OC MAX.
3. WOOD HEADER & JAMBS OVER OPENING; SEE H1/S-600. NOT ALL HEADERS AND JAMBS MAY BE SHOWN, SEE ARCH AND MECHANICAL FOR ALL WALL OPENING LOCATIONS AND SIZES.
4. PROVIDE (3) 2x6 POST BELOW BEAM, STRAP BEAM TO POST W/ (2) SST CS16 W/ (12) 0.131"x2 1/2" NAILS (24 TOTAL PER STRAP, EE OF HEADER

REVISION SCHEDULE

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NEW RECTORY AT
HOLY SPIRIT CATHOLIC COMMUNITY
ROCK SPRINGS, WYOMING

APN: 25-035 | Date Issued: 4/22/2026
Drawn By: MMWYO | Checked By: AM
Sheet Title: ROOF LEVEL PLAN
Sheet Number: S-132

DESIGNERS: Enter Designer's Name Here
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DATE PLOTTED: 4/22/2026 2:52:34 PM
FILE PATH: Autodesk Docs://ACC-MM SS/25-035_Holy Spirit Catholic Community-Rectory_S26.rvt

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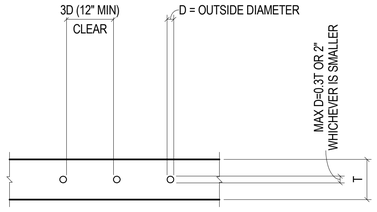
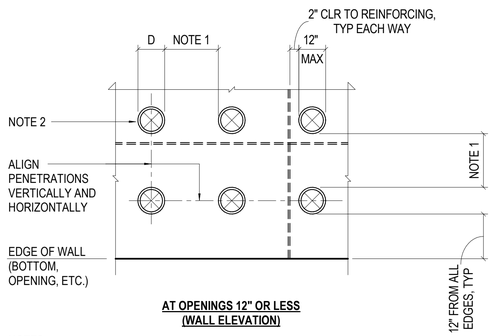


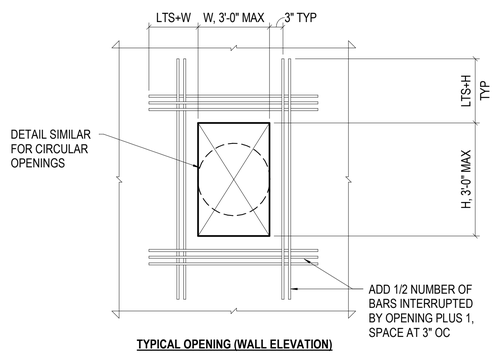
AT PIPING OR CONDUIT (WALL SECTION)

NOTES:
1. WHERE CLEAR DISTANCE BETWEEN PIPING/CONDUIT CAN NOT BE ACHIEVED AS SHOWN, STRUCTURAL ENGINEER OF RECORD SHALL BE NOTIFIED FOR REVIEW
2. IN WALL PIPING/CONDUITS GREATER THAN [0.3T] SHALL BE SUBMITTED FOR REVIEW
3. LOCATE PIPING/CONDUITS WITHIN MIDDLE THIRD (T/3) OF WALL



AT OPENINGS 12" OR LESS (WALL ELEVATION)

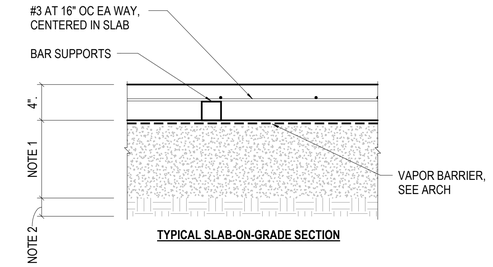
NOTES:
1. GREATER OF 2xD AND 12", WHERE CLEAR DISTANCE IS NOT ACHIEVABLE, TREAT AREA AS SINGLE OPENING REINFORCED PER "TYPICAL OPENING" DETAIL
2. DO NOT CORE OPENINGS, SLEEVE OPENINGS PRIOR TO PLACING CONCRETE
3. DO NOT CUT REBAR AT PENETRATION LOCATIONS. REBAR MAY BE MOVED 8" MAX TO ACCOMMODATE PENETRATIONS
4. SCHEDULE 40 STEEL SLEEVES SHALL BE USED IN CRITICAL AREAS OF THE WALL AND SLABS AS DETERMINED BY STRUCTURAL ENGINEER OF RECORD



TYPICAL OPENING (WALL ELEVATION)

NOTES:
1. DETAIL APPLIES UNLESS REINFORCING IS SPECIFICALLY DETAILED ON THE DRAWINGS
2. HOOK BARS WITH STANDARD HOOK WHERE LTS CANNOT BE ACHIEVED

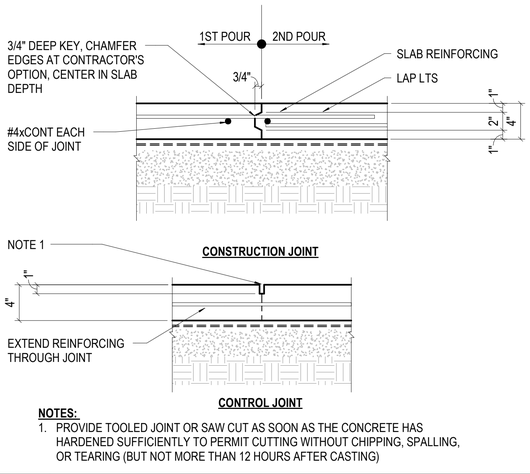
K1 NO SCALE CAST IN PLACE WALL PENETRATIONS



TYPICAL SLAB-ON-GRADE SECTION

NOTES:
1. GRANULAR COURSE: 12" MIN COMPACTED GRANULAR FILL (ROAD BASE), SEE GEOTECHNICAL REPORT.
2. PREPARED/COMPACTED SUBGRADE, SEE GEOTECHNICAL REPORT.
3. SEE H5/S-300 FOR CONSTRUCTION AND CONTROL JOINTS

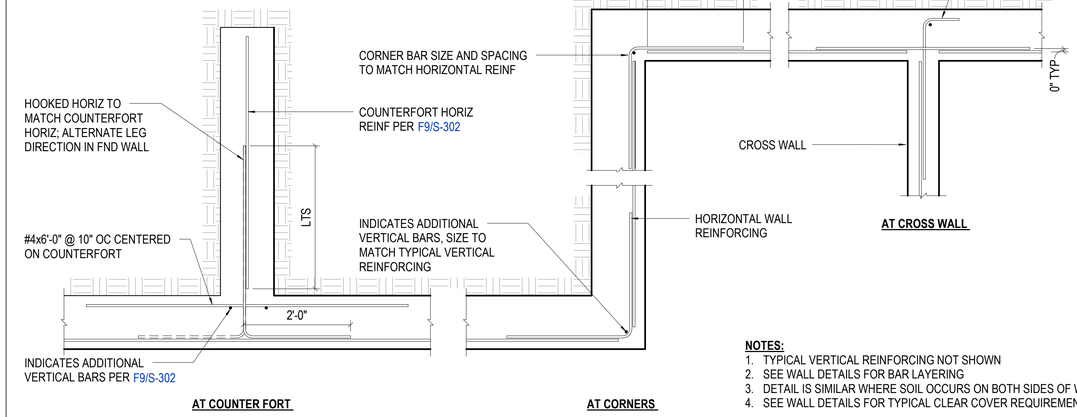
D5 NO SCALE TYP SOG SCHEDULE



CONTROL JOINT

NOTES:
1. PROVIDE TOOLED JOINT OR SAW CUT AS SOON AS THE CONCRETE HAS HARDENED SUFFICIENTLY TO PERMIT CUTTING WITHOUT CHIPPING, SPALLING, OR TEARING (BUT NOT MORE THAN 12 HOURS AFTER CASTING)

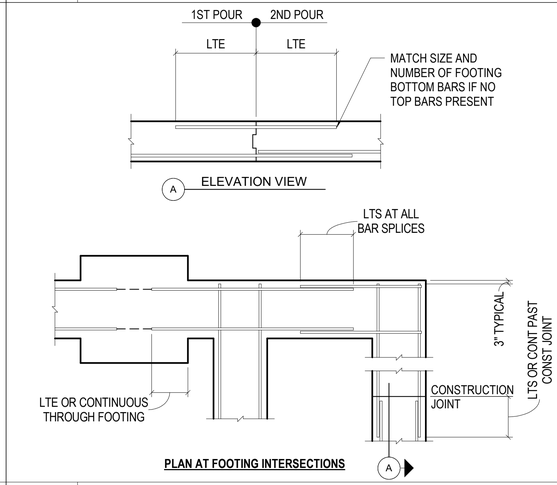
H5 NO SCALE TYP SOG CONSTRUCTION & CONTROL JOINTS



AT COUNTER FORT **AT CORNERS**

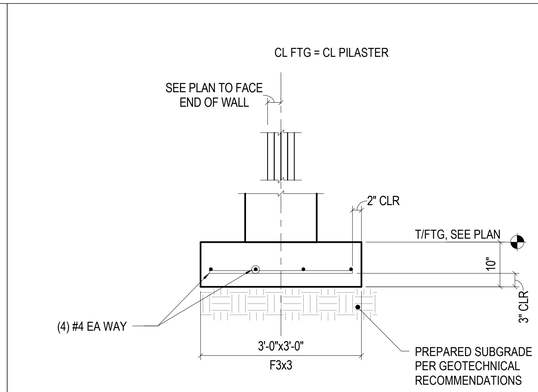
NOTES:
1. TYPICAL VERTICAL REINFORCING NOT SHOWN
2. SEE WALL DETAILS FOR BAR LAYERING
3. DETAIL IS SIMILAR WHERE SOIL OCCURS ON BOTH SIDES OF WALL
4. SEE WALL DETAILS FOR TYPICAL CLEAR COVER REQUIREMENTS

D9 NO SCALE CORNER & INTERSECTING BAR DETAIL



PLAN AT FOOTING INTERSECTIONS

H9 NO SCALE TYP STRIP FOOTING CORNER AND INTERSECTION BAR



H13 NO SCALE TYP SPREAD FOOTING

REVISION SCHEDULE

Revision Number	Revision Description	Revision Date

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INDIAN PAINTBRUSH ARCHITECTURE, LLC
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Professional Engineer (Structural) ANNAH M. MILLER 19281 WYOMING Date 4/22/2026

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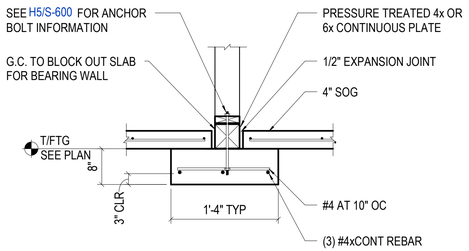
NEW RECTORY AT HOLY SPIRIT CATHOLIC COMMUNITY
ROCK SPRINGS, WYOMING

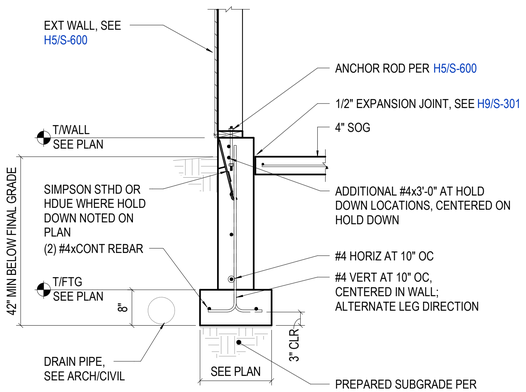
APN: 25-035 | Date Issued: 4/22/2026
Drawn By: MMWYO | Checked By: AM
Sheet Title: CONCRETE DETAILS
Sheet Number: S-300

DESIGNERS: Enter Designer's Name Here
LEAD REVIT TECH: Enter Lead Revit Tech's Name Here
DATE PRINTED: 4/22/2026 2:54 PM
FILE PATH: Autodesk Docs://ACC-MM SS/25-035 Holy Spirit Catholic Community-Rectory_S26.rvt

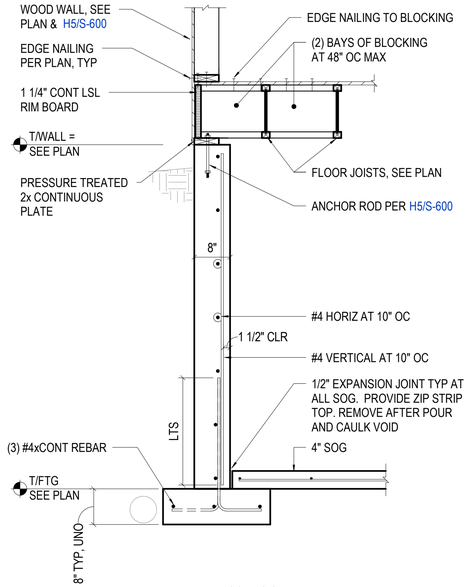
MM JOB #: 25-035
PRINCIPAL: Enter Principal's Name Here
PROJECT ARCHITECT: Enter PA's Name Here
PROJECT MANAGER: Enter PM's Name Here



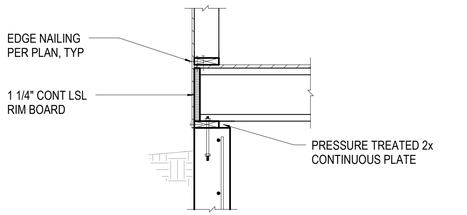
D1 NO SCALE INTERIOR BASEMENT FOOTINGS



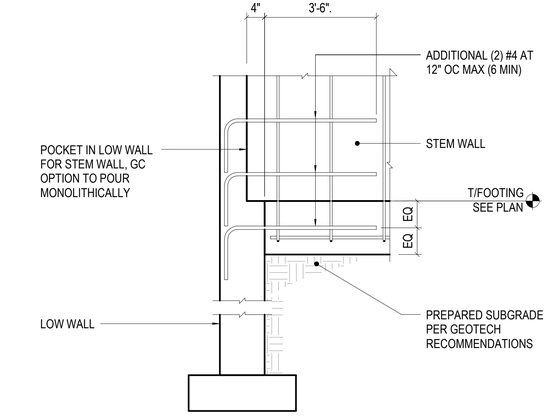
D5 NO SCALE FOUNDATION WALL AT GARAGE/SOG



AT PARALLEL FLOOR JOIST

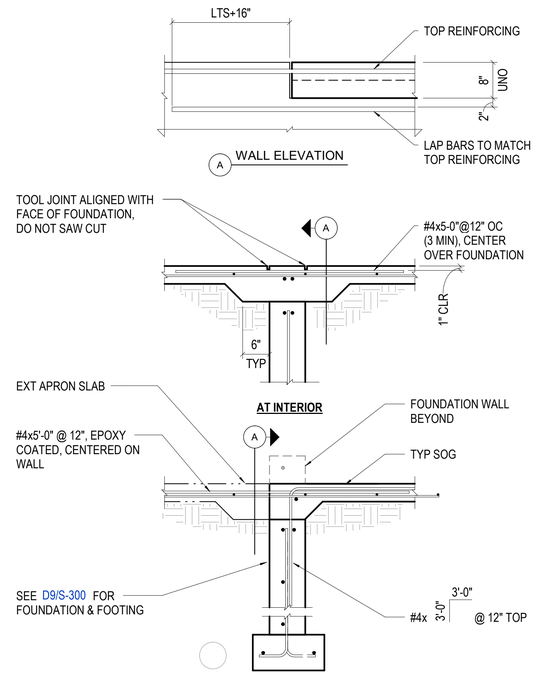


AT PERPENDICULAR FLOOR JOIST

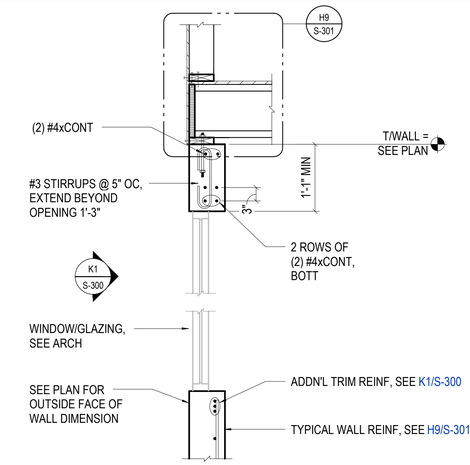


NOTES:
1. WALL HORIZONTAL & VERTICAL MAT REINFORCING NOT SHOWN

D13 NO SCALE FOOTING STEP

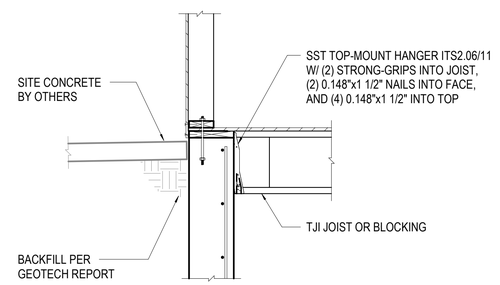


I13 NO SCALE THRESHOLD AT GARAGE/MAN DOOR



H5 NO SCALE LINTEL AT EGRESS WINDOWS

H9 NO SCALE TYP FULL HEIGHT BASEMENT FOUNDATION DETAIL



NOTES:
SEE H9/S-301 FOR ADDITIONAL INFORMATION

K9 NO SCALE WOOD JOIST TO TOP OF FOUNDATION WALL AT ENTRY

REVISION SCHEDULE

Revision Number	Revision Description	Revision Date

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INDIAN PAINTBRUSH ARCHITECTURE, LLC
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NEW RECTORY AT HOLY SPIRIT CATHOLIC COMMUNITY

ROCK SPRINGS, WYOMING

APN: 25-035 | Date Issued: 4/22/2026
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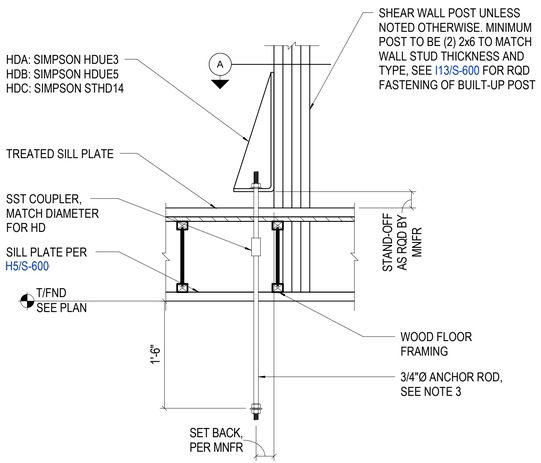
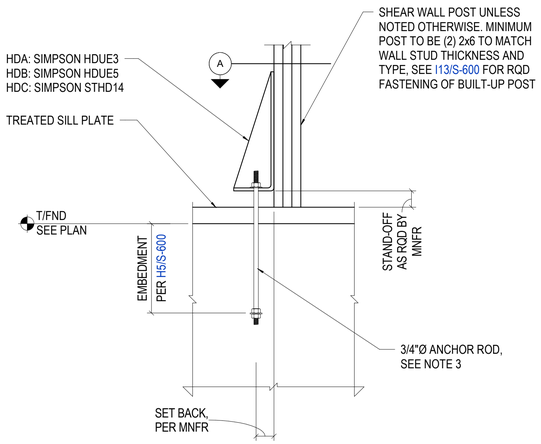
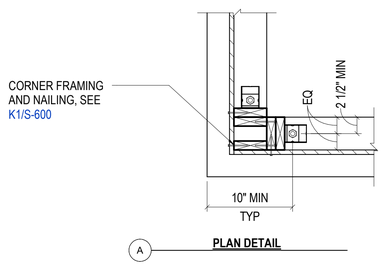
Sheet Title: CONCRETE DETAILS
Sheet Number: S-301



AT WOOD FLOOR FRAMING



AT CONC FOUNDATION WALL

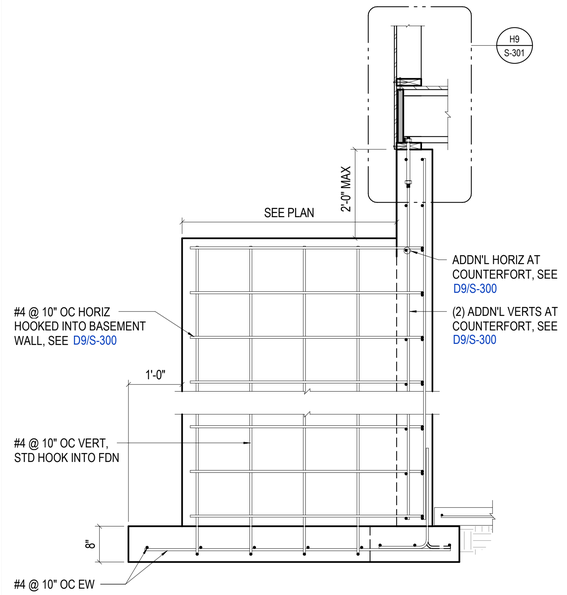


PLAN DETAIL

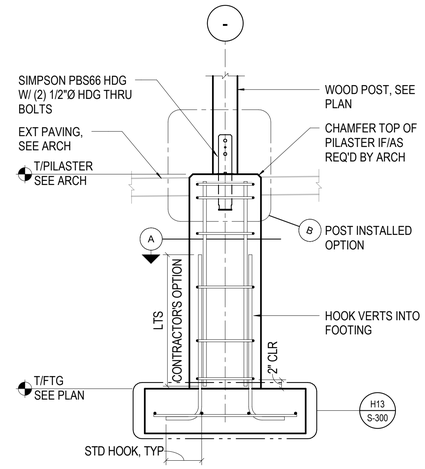
NOTES:

1. VERIFY SETBACK DIMENSIONS SHOWN ABOVE WITH HOLD DOWN MANUFACTURER.
2. NOTIFY ENGINEER OF ALL DISCREPANCIES PRIOR TO INSTALLING ANCHORS.
3. ANCHORS SHALL BE LOCATED AT CENTER OF SILL PLATE, UNO.
4. POST CONNECTORS ARE SIMPSON SDS SCREWS, OR EQUIVALENT, UNO.

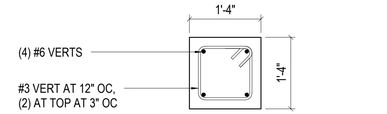
K5 NO SCALE TYPICAL WOOD HOLD DOWN AT CONCRETE



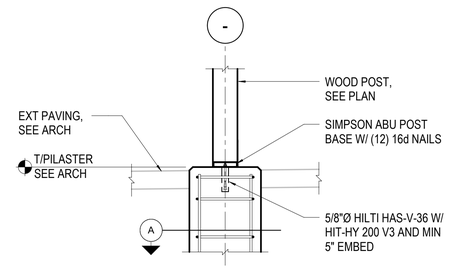
F9 NO SCALE TYP BASEMENT COUNTERFORT



OPTION 1: CAST-IN-PLACE CONNECTION



PILASTER SECTION



OPTION 2: POST INSTALLED POST CONNECTION

I13 NO SCALE EXTERIOR WOOD COLUMN AT FOOTING

REVISION SCHEDULE

Revision Number	Revision Description	Revision Date

INDIAN PAINTBRUSH ARCHITECTURE, LLC
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NEW RECTORY AT HOLY SPIRIT CATHOLIC COMMUNITY

ROCK SPRINGS, WYOMING

APN: 25-035
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Drawn By: MMWYO
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Sheet Title: CONCRETE DETAILS
Sheet Number: S-302

NOTE:

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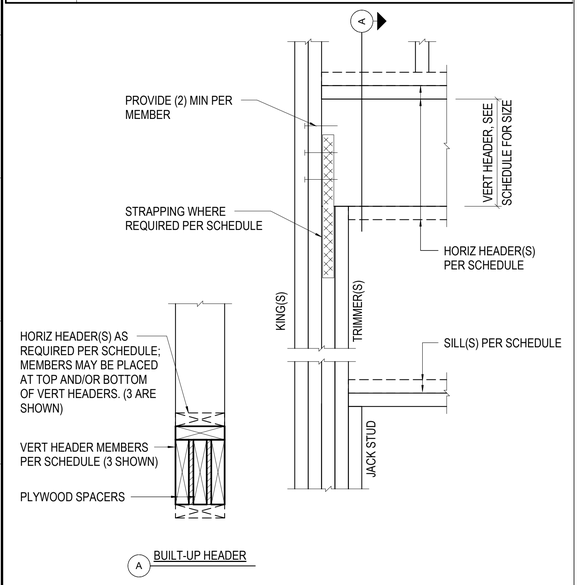
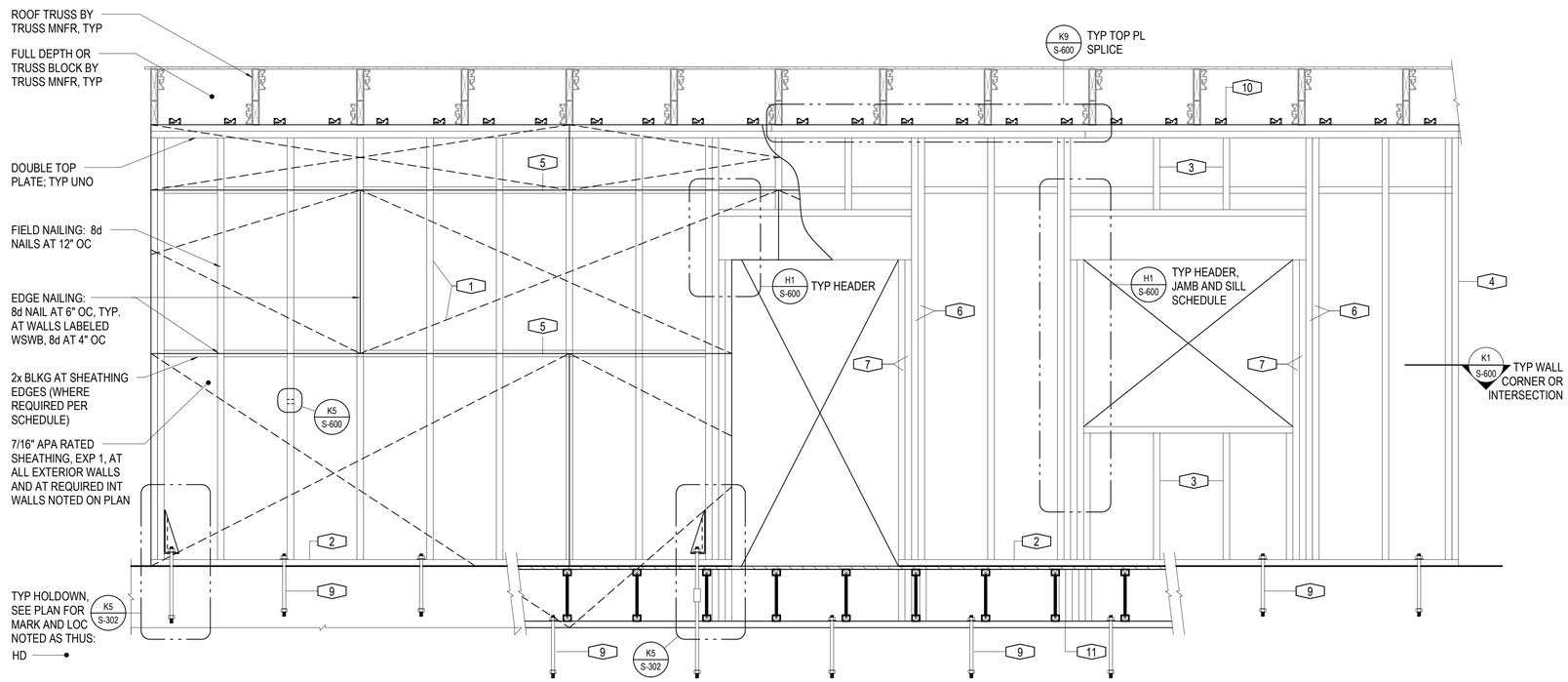
HEADER AND JAMB SCHEDULE

SIZE OF OPENING	HEADER (VERTICAL)	HORIZ HEADER (LATERAL)	FLAT SILL (LATERAL)	TRIMMER(S)	KING(S)	STRAPPING / NOTES
UP TO 4'-4"	(2) 1 3/4" x 7 1/4" LVL OR (2) 2x10	(1) 2x6	(1) 2x6	(2) 2x6	(2) 2x6	-
UP TO 6'-6"	(2) 1 3/4" x 9 1/2" LVL	(1) 2x6	(1) 2x6	(2) 2x6	(2) 2x6	-
UP TO 9'-0"	(2) 1 3/4" x 11 7/8" LVL	(3) 2x6	(2) 2x6	(3) 2x6	(3) 2x6	SST CS14 W/ (15) 0.148"x2 1/2" NAILS EE OF STRAP
UP TO 10'-0" (GARAGE)	(3) 1 3/4" x 11 7/8" LVL	(2) 2x6	–	(3) 2x6	(3) 2x6	SST CS14 W/ (18) 0.148"x2 1/2" NAILS EE OF STRAP
LARGER THAN 10'-0"	SEE DETAILS					



NOTES:
1. PROVIDE TRIMMER AND KING STUDS AS SHOWN IN SCHEDULE UNLESS NOTED OTHERWISE ON PLAN.
2. NAIL HEADERS PER I9/S-600
3. NAIL POSTS PER I13/S-600



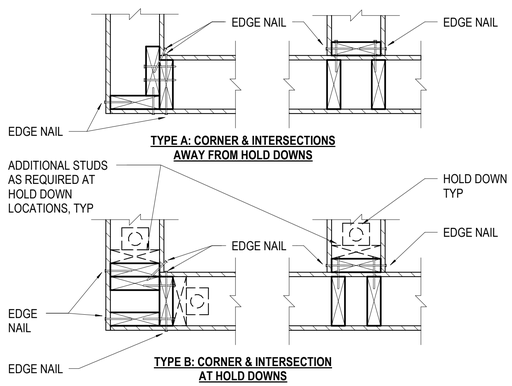
TYP SHEARWALL ON FOUNDATION WALL | **TYP SHEARWALL ON WOOD FLOOR FRAMING** | **TYP WOOD WALL ON WOOD FLOOR FRAMING** | **TYP WOOD WALL ON FOUNDATION WALL**

KEYNOTE LEGEND

1. FOR TYP WALL STUD & SHEATHING RQMTS, SEE SCHEDULE
2. 2x TREATED SILL PLATE
3. MAINTAIN TYPICAL STUD SIZE & SPACING ABOVE & BELOW OPENINGS
4. WALL CORNER, SEE K1/S-600
5. 2x BLOCKING AT 4'-0 OC MAX. PROVIDE AT PANEL EDGES WHERE REQUIRED PER WOOD WALL SCHEDULE
6. FOR KING STUD RQMTS, SEE H1/S-600
7. FOR TRIMMER RQMTS, SEE H1/S-600
8. ROOF/FLOOR SHEATHING PER
9. 5/8"Ø AB AT 32" OC MAX AND AT EA FOUNDATION WALL CORNER AND END OF PLATE AT SPLICES; EMBED 9". USE PL1/4x3x0'-3" WASHER, DOUBLE NUT AND LOCK WASHER OR HEADED ANCHOR ROD.
10. A34 CONNECTORS W/ (8) #9x1 1/2" SD SCREWS AT 12" OC MAX
11. 10 PROVIDE SQUASH BLOCKING UNDER ALL POSTS AND TRIMMERS

STRUCTURAL WALL NOTES:
1. ALL STRUCTURAL WOOD WALLS SHALL BE 2x6 HEM-FIR (HF) No. 2 GRADE OR EQUIVALENT, SPACED AT 16" OC MAX UNLESS NOTED OTHERWISE.
2. PLYWOOD SHEATHING NAILS SHALL BE INSTALLED A MINIMUM OF 3/8" FROM PANEL EDGES AT WALLS AND ROOF SHEATHING.
3. PLYWOOD SHEATHING NAILS TO BE COMMON OR BOX NAILS.
4. ALL PLYWOOD SHEATHING TO BE BACKED WITH 2" NOMINAL OR WIDER MEMBER.
5. CONNECT SHEATHING DIRECTLY TO STUDS.
6. ALL WALL NAILING AT WALLS, INCLUDING HEADERS, BLOCKING, RIMBOARDS, ETC. SHALL CONFORM TO REQUIREMENTS OF NAILING SCHEDULE IN IBC 2024, TABLE 2304.10.1 UNLESS MORE STRINGENT REQUIREMENTS ARE SHOWN IN DRAWINGS.

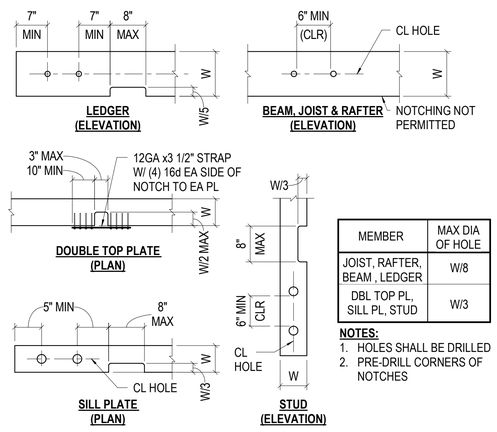
H1 — 1 1/2" = 1'-0" — WOOD WALL HEADER, JAMB, AND SILL DETAILS



NOTES:
1. ALL WALL CORNERS & INTERSECTIONS MAY BE CONSTRUCTED AS TYPE A UNLESS NOTED OTHERWISE.
2. FOR ADDITIONAL HOLD DOWN DETAILS AND REQUIREMENTS, SEE

K1 — NO SCALE — TYPICAL WOOD WALL CORNER & INTERSECTION

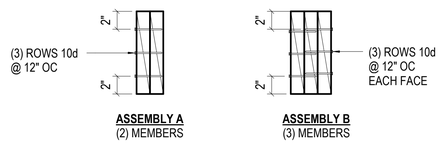
H5 — NO SCALE — TYP WOOD STRUCTURAL WALL ELEVATION



MEMBER	MAX DIA OF HOLE
JOIST, RAFTER, BEAM , LEDGER	W/8
DBL TOP PL, SILL PL, STUD	W/3

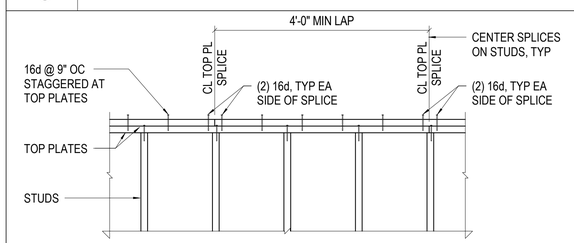
NOTES:
1. HOLES SHALL BE DRILLED
2. PRE-DRILL CORNERS OF NOTCHES

K5 — NO SCALE — TYPICAL WOOD HOLE & NOTCH REQUIREMENTS

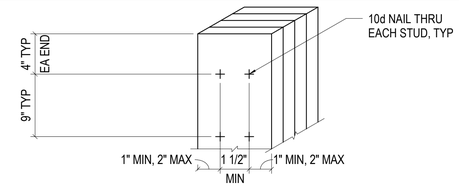


NOTES:
1. 10" NOMINAL & SMALLER USE (2) ROWS OF SCREWS

I9 — NO SCALE — BUILT-UP WOOD BEAM NAIL LAYOUT



K9 — NO SCALE — TYPICAL WOOD TOP PLATE SPLICE



I13 — NO SCALE — TYP WOOD POST SCHEDULE

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Professional Engineer (Structural) — STATE OF WYOMING — ANNA M. MILLER — 23581 — Date 4/22/2026

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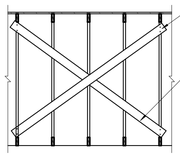
ROCK SPRINGS, WYOMING

APN: 25-035 | Date Issued: 4/22/2026
Drawn By: MMWYO | Checked By: AM
Sheet Title: WOOD DETAILS
Sheet Number: S-600

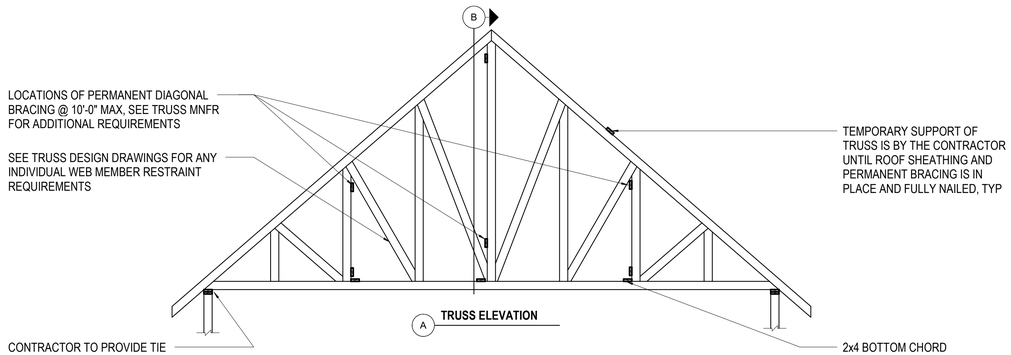
DESIGNERS: Enter Designer's Name Here
LEAD REVIT TECH: Enter Lead Revit Tech's Name Here
DESIGNED FOR: Enter Owner's Name Here
FILE PATH: Autodesk Docs://ACC-MM S2625-039_Holy Spirit Catholic Community-Rectory_S26.rvt

MM JOB #: 25-035
PRINCIPAL: Enter Principal's Name Here
EDIT REVIT TECH: Enter Revit Tech's Name Here
PROJECT MANAGER: Enter PM's Name Here

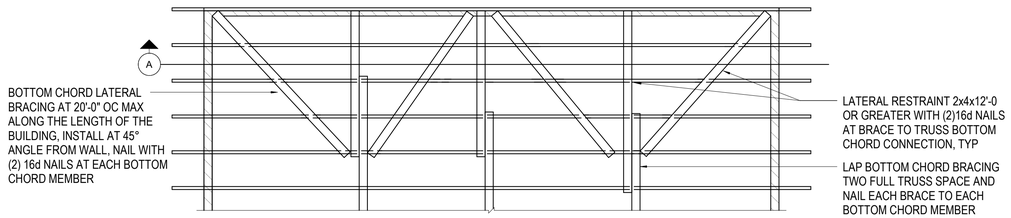
NOTES:
1. ALL BRACING SHOWN IS MINIMUM REQUIRED FOR FINAL IN PLACE CONDITION. ADDITIONAL BRACING (FINAL PERMANENT BRACING AND TEMPORARY ERECTION BRACING) SHALL BE DESIGN BY THE TRUSS MANUFACTURER AND PROVIDED BY THE CONTRACTOR



B **DIAGONAL BRACING**



TRUSS ELEVATION



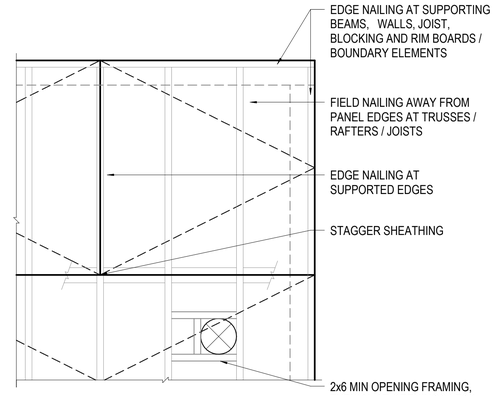
TRUSS BOTTOM CHORD PLAN VIEW

TYPICAL PRE-ENGINEERED WOOD ROOF TRUSS NOTES
1. METAL PLATE CONNECTED WOOD TRUSSES ARE SHOWN OR CALLED OUT ON THE DRAWINGS AS EITHER PRE-ENGINEERED OR PRE-MANUFACTURED TRUSSES. DESIGN PRE-ENGINEERED WOOD TRUSS MEMBERS AND CONNECTIONS FOR EACH OF THE LOAD COMBINATIONS IN THE INTERNATIONAL BUILDING CODE (IBC). TRUSSES SHALL BE DESIGNED IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE NOTE IN PROJECT DESIGN CRITERIA, ALONG WITH THE RECOMMENDATIONS OF THE WOOD TRUSS COUNCIL OF AMERICA (WTCA) AND THE TRUSS PLATE INSTITUTE (TPI). REFER TO THE SPECIFICATIONS FOR ADDITIONAL TRUSS DESIGN CRITERIA NOT SHOWN ON THE DRAWINGS.
2. WEB MEMBER CONFIGURATIONS SHOWN ON LOADING DIAGRAMS AND DETAILS ARE FOR ILLUSTRATION PURPOSES ONLY. ACTUAL WEB MEMBER CONFIGURATIONS SHALL BE ESTABLISHED BY THE CONTRACTOR.
3. SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR DUCT LAYOUT. THE CONTRACTOR SHALL CONFIGURE TRUSS WEBS TO AVOID DUCT WORK, ACCESS PLATFORMS AND EQUIPMENT AND NOTE ALL DUCT SIZES AND AREAS OF POTENTIAL CONFLICT ON SHOP AND ERECTION DRAWING SUBMITTALS.
4. TOP AND BOTTOM CHORD CONFIGURATIONS SHOWN ON LOADING DIAGRAMS ARE FOR ILLUSTRATION PURPOSES ONLY. REFER TO PLANS AND ARCHITECTURAL DRAWINGS FOR TOP CHORD SLOPE.
5. TEMPORARY AND PERMANENT TRUSS BRACING IS REQUIRED. TRUSS DESIGNER TO DESIGN AND DETAIL THE BRACING TO RESOLVE THE BRACING FORCES. SUBMIT SHOP DRAWINGS SHOWING BRACING LOCATIONS, MATERIALS AND CONNECTIONS. SEE GENERAL NOTES, PLAN SHEETS, AND DETAILS ON THIS SHEET.
6. TRUSSES ARE TO BE DESIGNED FOR THE LOAD COMBINATIONS IN THE IBC: EACH SNOW LOAD CASE, SHOWN ON PLAN SHEETS, IS A "STAND ALONE" CASE, AND SHOULD NOT BE COMBINED WITH ANY OTHER SNOW LOAD CASE IN ANY GIVEN LOAD COMBINATION.
7. LOAD DURATION FACTORS FOR WIND AND SEISMIC ARE 1.6.
8. MAXIMUM VERTICAL TRUSS DEFLECTION SHALL BE LIMITED TO THE SPAN/360 FOR SNOW LOAD. TRUSSES SHALL BE DESIGNED FOR A MAX DEFLECTION DUE TO SUPER-IMPOSED DEAD LOAD AND SNOW LOAD = 1".
9. MAXIMUM VERTICAL TRUSS DEFLECTION SHALL BE LIMITED TO THE SPAN/240 (INCLUDING CREEP) FOR DEAD LOAD PLUS SNOW LOAD.
10. MAXIMUM HORIZONTAL TRUSS DEFLECTION SHALL BE LIMITED TO 1/4 INCH EACH SIDE (INCLUDING CREEP) FOR DEAD LOAD PLUS SNOW LOAD.
11. ALL WEB (DIAGONAL AND VERTICAL) MEMBERS SHALL BE DESIGNED AS UNBRACED FOR THEIR FULL LENGTH BETWEEN CHORD MEMBERS. USE TEE ,'L', STACKED, OR METAL REINFORCEMENT.
12. UNDER NO CIRCUMSTANCES SHALL ANY MEMBER OF A TRUSS BE REMOVED AND/OR MODIFIED WITHOUT PRIOR WRITTEN APPROVAL FROM THE CONTRACTOR'S TRUSS MANUFACTURER AND THE ARCHITECT.
13. ALL BOLT HOLES (FOR TRUSS PLY TO PLY CONNECTIONS, CONNECTIONS TO EAVE OUTRIGGERS, ETC.) SHALL BE DRILLED. THE MINIMUM HOLE DIAMETER IS 1/32" LARGER THAN THE BOLT DIAMETER. THE MAXIMUM HOLE DIAMETER IS 1/16" LARGER THEN THE BOLT DIAMETER. THE CONTRACTOR SHALL TAKE INTO ACCOUNT THESE HOLES WHEN DESIGNING THE TRUSS MEMBERS.
14. NOTCHING OF TRUSS MEMBERS IS NOT ALLOWED WITHOUT PRIOR WRITTEN APPROVAL FROM THE ARCHITECT.
15. LAG BOLTS AND SCREWS FOR OTHER TRADES (SPRINKLERS, HUNG PIPING, HUNG MECHANICAL EQUIPMENT, ETC.) MAY BE USED IF INSTALLED INTO THE SIDE OF THE CHORD MEMBERS. LAG BOLTS AND SCREWS MAY NOT BE USED IN ANY WEB (DIAGONAL AND VERTICAL) MEMBERS. THE CONTRACTOR'S TRUSS MANUFACTURER SHALL PROVIDE A CRITERIA (INCLUDING MAXIMUM HOLE DIAMETER, MINIMUM HOLE SPACING FOR ADJACENT HOLES, LOCATION OF HOLES, ETC.) FOR THE LAG BOLTS AND SCREWS. THE LAG BOLTS AND SCREWS CANNOT BE PLACED WITHOUT PRIOR WRITTEN APPROVAL FROM THE CONTRACTOR'S TRUSS MANUFACTURER AND THE ARCHITECT.
16. DESIGN TRUSS CHORDS FOR POINT LOADS FROM PIPING AND OTHER SUPPORTED LOADS. CONTRACTOR TO ESTABLISH MAGNITUDE AND LOCATION OF POINT LOADS BY CONSULTING THE ARCHITECT.

K1 NO SCALE TYPICAL TRUSS NOTES AND REQUIREMENTS

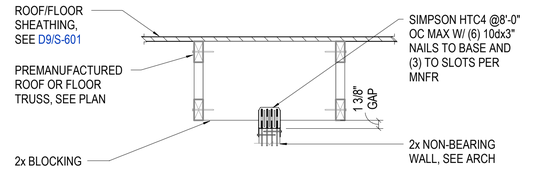
WOOD HORIZONTAL SHEATHING SCHEDULE - 10d NAILS					
MARK	SHEATHING MATERIAL	BLOCKED EDGES	NAILING REQUIREMENTS		COMMENTS
			FIELD NAILING	EDGE NAILING	
ROOF	15/32" SHEATHING	NO	10d@12" OC	10d@6" OC	-
FLOOR	23/32" SHEATHING	NO	10d@12" OC	10d@6" OC	TONGUE & GROOVE EDGES AT FLOORS

SCHEDULE NOTES:
1. NAILS: 10d COMMON NAILS (0.148"Ø) WITH 1 1/2" MINIMUM PENETRATION INTO FRAMING MEMBERS

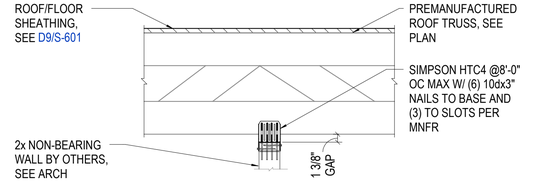


DETAIL NOTES:
1. LAYOUT SHEATHING SUCH THAT:
   A. LONG DIMENSION OF SHEATHING IS PERPENDICULAR TO SUPPORTING FRAMING (TRUSSES / RAFTERS / JOISTS)
   B. SHEATHING JOINTS ARE STAGGERED EACH PANEL
2. MINIMUM EDGE DISTANCE FOR NAILS SHALL BE 3/8"
3. PROVIDE EDGE NAILING INTO ALL SUPPORTING BEAMS, WALLS, JOISTS, BLOCKING, AND RIM BOARDS UNO

D9 NO SCALE WOOD FLOOR / ROOF / HORIZONTAL SHEATHING CONSTRUCTION



FULL HEIGHT WALL PARALLEL TO FRAMING



FULL HEIGHT WALL PERPENDICULAR TO FRAMING

NOTES:
1. CONTRACTOR TO COORDINATE ALL TOP OF PARTITION WALL HEIGHTS WITH ARCHITECTURAL.
2. INTERIOR PARITION WALLS SHALL ALLOW FOR VERTICAL DEFLECTION OF ROOF FRAMING AND TRUSSES.

H13 NO SCALE TOP OF INTERIOR PARTITION WALL TO BOTTOM OF TRUSS

REVISION SCHEDULE		
Revision Number	Revision Description	Revision Date

NOTE:
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INDIAN PAINTBRUSH ARCHITECTURE, LLC
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Professional Engineer (Structural) M. MILLER 13581 WYOMING Date 4/22/2026

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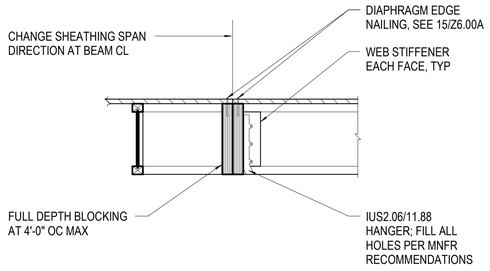
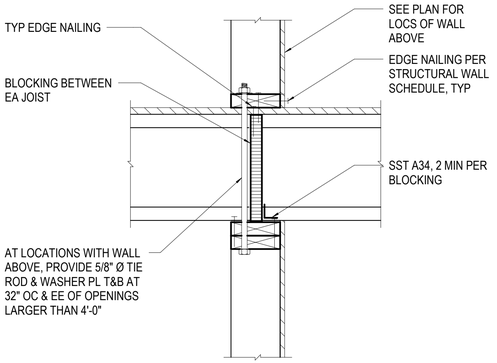
NEW RECTORY AT HOLY SPIRIT CATHOLIC COMMUNITY
ROCK SPRINGS, WYOMING

APN: 25-035 | Date Issued: 4/22/2026
Drawn By: MMWYO | Checked By: AM
Sheet Title: WOOD DETAILS
Sheet Number: S-601

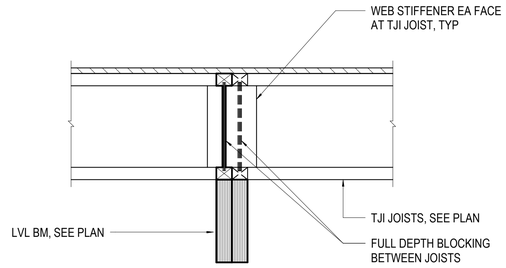
DESIGNERS: Enter Designer's Name Here
LEAD REVIT TECH: Enter Lead Revit Tech's Name Here
DESIGNER EMAIL: Enter Designer's Email Here
FILE PATH: Autodesk Docs://ACC-MM S2525-035 -Holy Spirit Catholic Community-Rectory_S26.rvt
MM JOB #: 25-035
PRINCIPAL: Enter Principal's Name Here
PROJECT MANAGER: Enter PM's Name Here



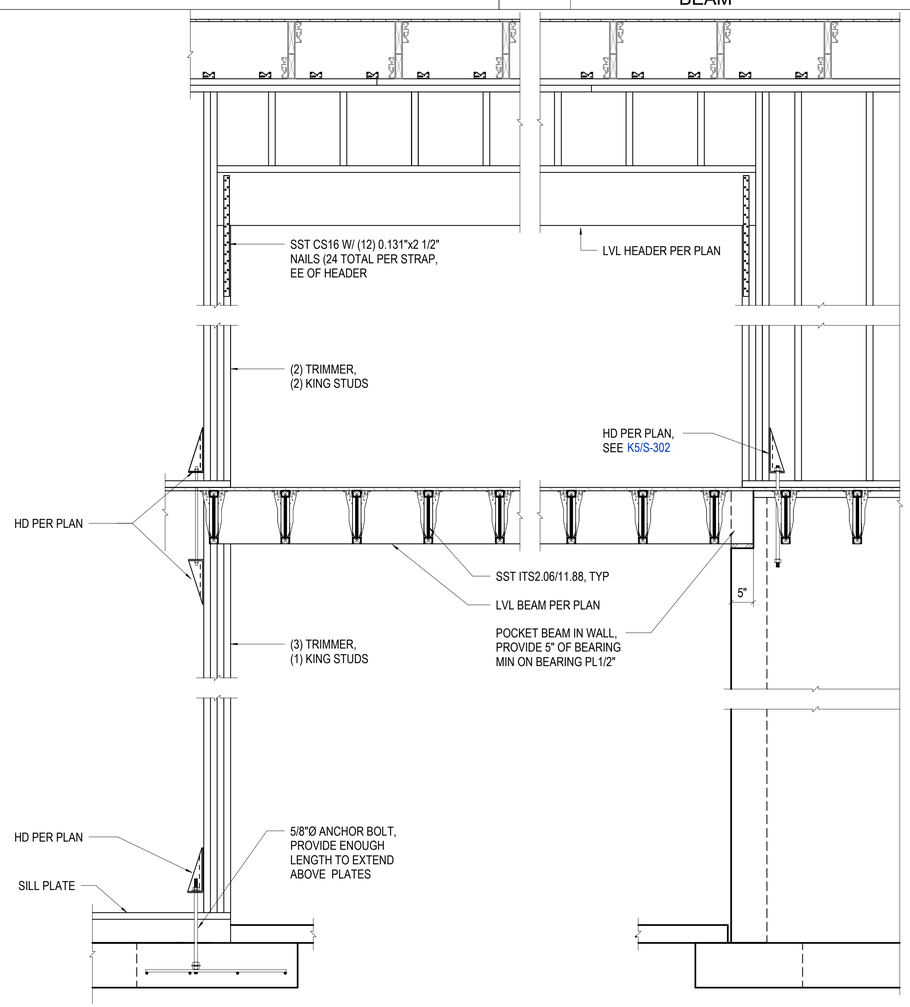
D5 NO SCALE WOOD SHEATHING TRANSITION AT BEAM



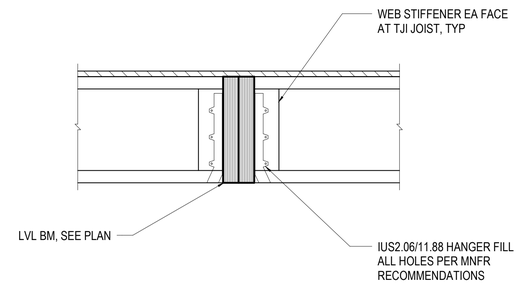
D9 NO SCALE WOOD JOIST AT INT BEARING WALL



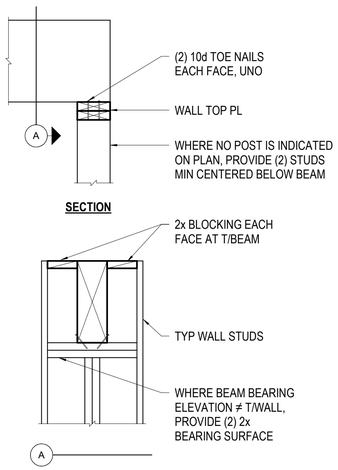
D13 NO SCALE TYP JOIST AT DROPPED LVL BEAM



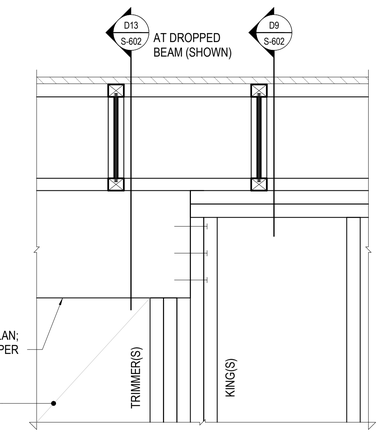
K1 NO SCALE LARGE PASS-THRU DETAIL



H9 NO SCALE TYP JOIST W/ STIFFENERS



K9 NO SCALE TYP WOOD BEAM POCKET DETAIL



NOTES:
1. PROVIDE TRIMMER AND KING STUDS AS SHOWN IN SCHEDULE UNLESS NOTED OTHERWISE ON PLAN.
2. NAIL HEADERS PER I9/S-600
3. NAIL POSTS PER I13/S-600

I13 NO SCALE BEAM SUPPORT PARALLEL TO WALL

REVISION SCHEDULE		
Revision Number	Revision Description	Revision Date

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INDIAN PAINTBRUSH ARCHITECTURE, LLC
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Professional Engineer (Structural) ANNA M. MILLER 19391 WYOMING Date 4/22/2026

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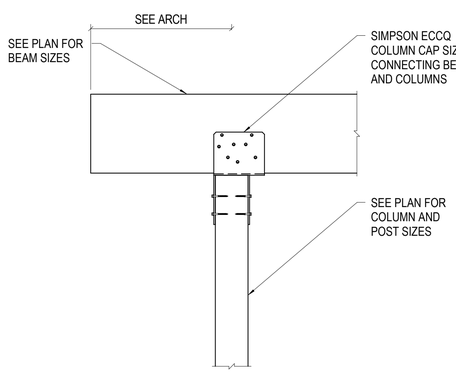
NEW RECTORY AT HOLY SPIRIT CATHOLIC COMMUNITY
ROCK SPRINGS, WYOMING

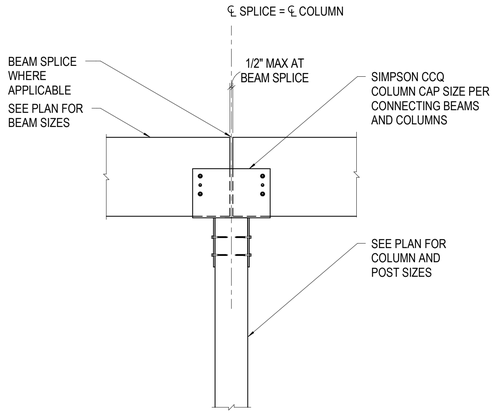
APN: 25-035 | Date Issued: 4/22/2026
Drawn By: MMWYO | Checked By: AM
Sheet Title: WOOD DETAILS
Sheet Number: S-602

DESIGNERS: Enter Designer's Name Here
LEAD REVIT TECH: Enter Lead Revit Tech's Name Here
DATE PRINTED: 4/22/2026 8:52:47 AM
FILE PATH: Autodesk Docs://ACC-MM S25\25-035 -Holy Spirit Catholic Community-Rectory_S26.rvt

MM JOB #: 25-035
PRINCIPAL: Enter Principal's Name Here
PROJECT ARCH: Enter PA's Name Here
PROJECT MANAGER: Enter PM's Name Here

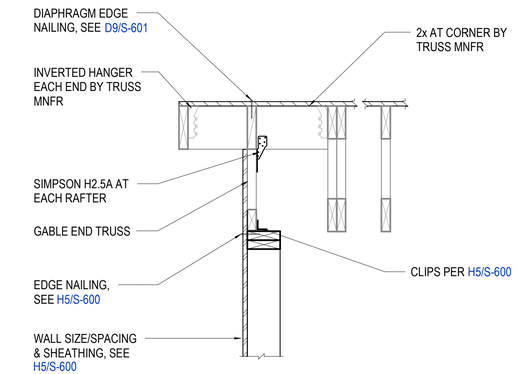


AT BEAM END

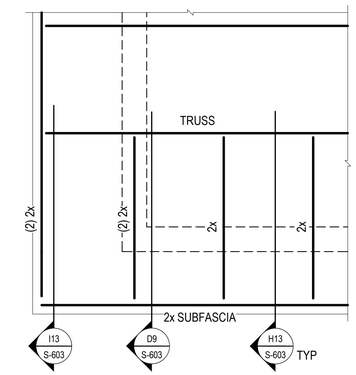


AT CONTINUOUS BEAM

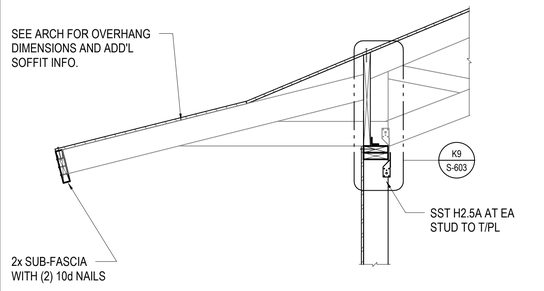
D1 NO SCALE TYP WOOD BEAM AT WOOD POST



D9 NO SCALE LADDER RAFTER AT WALL CORNER

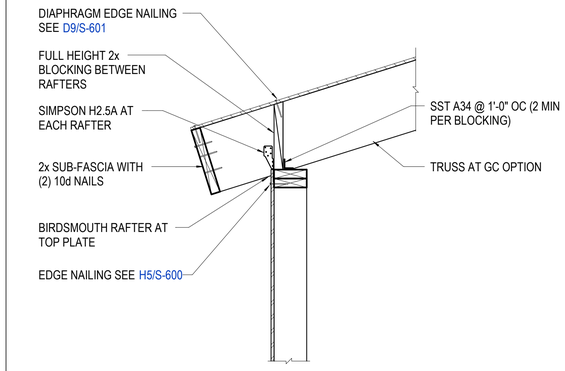


D13 NO SCALE TYP LADDER FRAMING WITH ROOF TRUSS (PLAN)

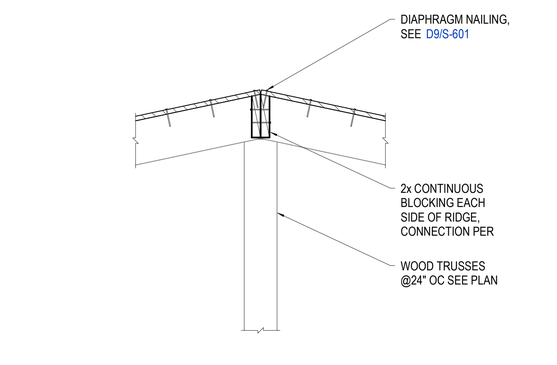


NOTE: SEE K1/S-601 FOR ADD'L INFORMATION AND DESIGN LOADING

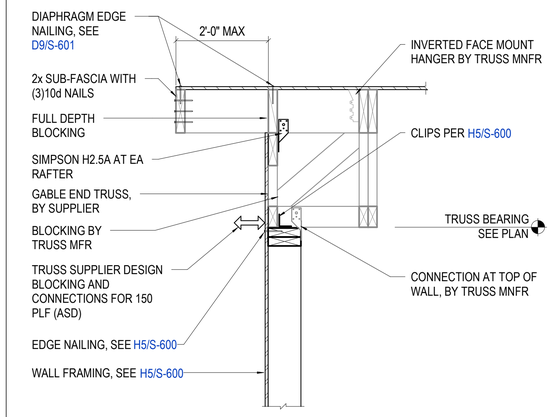
H1 NO SCALE SOUTH DECK/PATIO OVERHANG



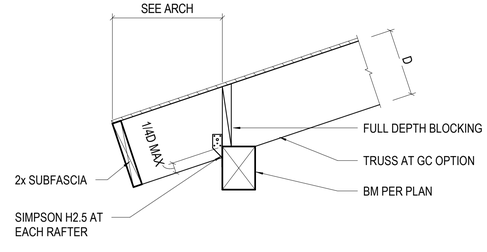
H5 NO SCALE 2x BIRDSMOUTH RAFTER AT EAVE



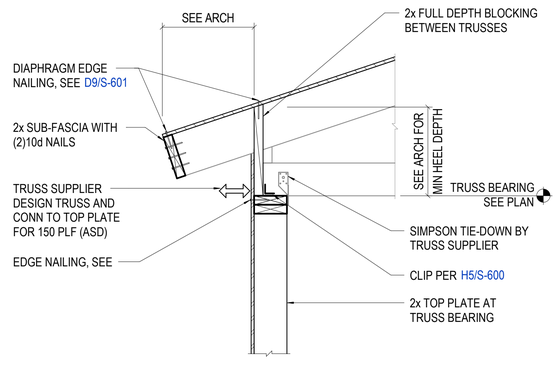
H9 NO SCALE TRUSS RIDGE



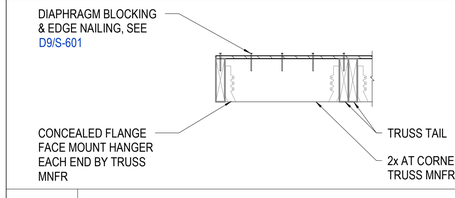
H13 NO SCALE TYP LADDER FRAMING WITH ROOF TRUSS



K5 NO SCALE 2x BIRDSMOUTH RAFTER TAIL AT BEAM



K9 NO SCALE TRUSS EAVE WITH 2x TOP PLATE



I13 NO SCALE LADDER RAFTER AT OVERHANG

REVISION SCHEDULE		
Revision Number	Revision Description	Revision Date

NOTE:

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INDIAN PAINTBRUSH ARCHITECTURE, LLC
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Professional Engineer (Structural) WYOMING ANNAH L. MILLER 19391 Date 4/22/2026

MARTIN/MARTIN WYOMING 6523 Yellowstone Road, Suite 200 Cheyenne, Wyoming 82009 307.637.8422 mmwyo.com

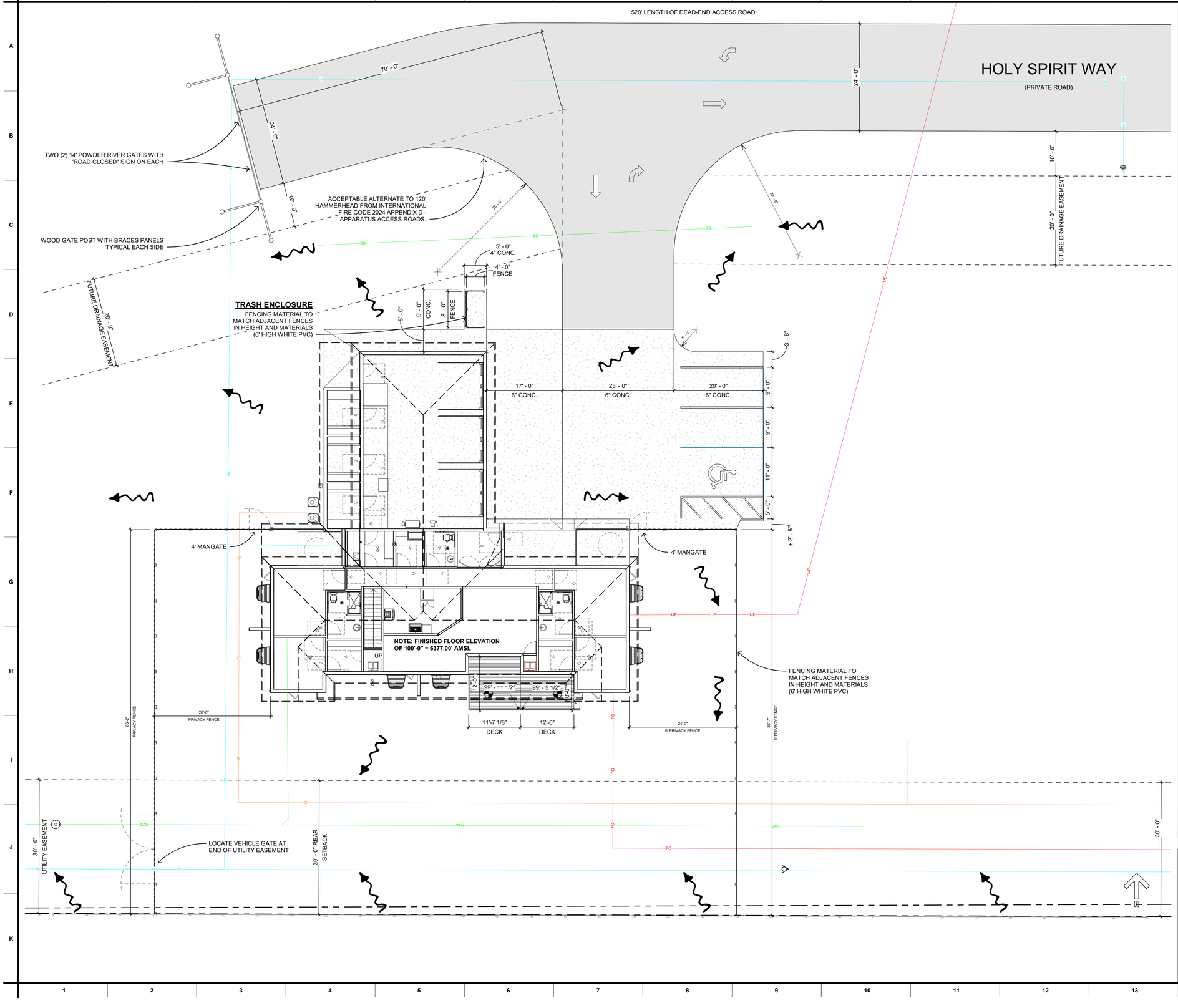
NEW RECTORY AT HOLY SPIRIT CATHOLIC COMMUNITY

ROCK SPRINGS, WYOMING

APN: 25-035 | Date Issued: 4/22/2026
Drawn By: MMWYO | Checked By: AM
Sheet Title: WOOD DETAILS
Sheet Number: S-603

DESIGNERS: Enter Designer's Name Here
LEAD REVIT TECH: Enter Lead Revit Tech's Name Here
QA / REVIEW: Enter QA/QC Reviewer's Name Here
FILE PATH: Autodesk Docs://ACC-MM SS\25-035_Holy Spirit Catholic Community-Rectory_S26.rvt

MM JOB #: 25-035
PRINCIPAL: Enter Principal's Name Here
EDITOR: Enter Editor's Name Here
PROJECT MANAGER: Enter PM's Name Here



GENERAL NOTES:

1. THE ARCHITECT AND ENGINEERS HAVE ENDEAVORED TO LOCATE AND SHOW ALL SIGNIFICANT FEATURES WITHIN THE GENERAL PROJECT LIMITS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY EXISTING CONDITIONS. NO ADDITIONAL COMPENSATION OR TIME WILL BE ALLOWED FOR CLAIMS OF ADDITIONAL WORK DUE TO ITEMS NOT SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL LABOR, MATERIALS AND EQUIPMENT FOR A COMPLETE PROJECT FOR ALL WORK REASONABLY INFERRED, FROM THE CONTRACT DOCUMENTS, WHETHER SHOWN OR SPECIFIED OR NOT.
2. DIMENSIONS ARE GIVEN TO:
   a. COLUMN LINES;
   b. STRUCTURAL LINES;
   c. FACE OF CONCRETE OR MASONRY WALLS;
   d. FACE OF STUDS:
      - NORTH FACE;
      - WEST FACE.
3. ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF CITY OF ROCK SPRINGS AMENDMENTS TO SOME OR ALL OF THE FOLLOWING:
   a. ROCK SPRINGS CITY CODE.
   b. ZONING CODE: ROCK SPRINGS ZONING ORDINANCE.
   c. NFPA 101 - LIFE SAFETY CODE, 2024.
   d. ICC (IFC) - INTERNATIONAL FIRE CODE, 2024.
   e. ICC (IBC) - INTERNATIONAL BUILDING CODE, 2024 (WITH AMENDMENTS).
   f. ICC (IPC) - INTERNATIONAL PLUMBING CODE, 2024 (WITH AMENDMENTS).
   g. ICC (IMC) - INTERNATIONAL MECHANICAL CODE, 2024 (WITH AMENDMENTS).
   h. NFPA 70 - NATIONAL ELECTRICAL CODE, 2023 (WITH AMENDMENTS).
   i. ICC A117.1-2017 - ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES.
4. BUILDING DESIGN INFORMATION:
   a. ULTIMATE DESIGN WIND SPEED: THERE ARE FOUR LEVELS OF WIND SPEED DEPENDING ON THE RISK CATEGORY OF THE BUILDING. THE MAJORITY OF BUILDINGS WILL BE IN RISK CATEGORY II WITH A WIND SPEED OF 115 MPH; WIND EXPOSURE CATEGORY C
   b. SNOW LOAD: 30 PSF - GROUND; INCLUDES NO SNOWDRIFT
   c. FROST LINE DEPTH: 42" - MINIMUM TO BOTTOM OF FOOTINGS
   d. CLIMATE ZONE: 6B
   e. WINTER DESIGN TEMP: -5 DEGREES F
   f. MEAN ANNUAL TEMP: 44.1 DEGREES F
   g. AIR FREEZING INDEX: NO
   h. WEATHERING: SEVERE
   i. TERMITE: SLIGHT
   j. SEISMIC DESIGN CATEGORY: B
   k. AND OTHER REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION OVER THE PROJECT.
5. MINE SUBSIDENCE CLASSIFICATION: PROJECT IS LOCATED OUTSIDE OF ARE DELINEATED BY AML PROJECTS 6A PHASE I, II, III, VII, VIII, AND IX, AS WELL AS OUTSIDE OF AREA DELINEATED BY 1989 AMENDED CSM (COLORADO SCHOOL OF MINES) MAP.
6. FENCING WILL REQUIRE SEPARATE ZONING PERMIT FROM CITY OF ROCK SPRINGS.
7. FUTURE BUILDS WILL REQUIRE ALL AREAS NOT INTENDED FOR PAVEMENT/BUILDING AREA TO BE LANDSCAPED (157.127.E)
8. GENERALLY, TYPICAL NOTES, DIMENSIONS, ELEVATIONS, ETC. ARE SHOWN OR NOTED ON THE FIRST DRAWING ON WHICH THEY APPEAR.
9. DO NOT SCALE DRAWINGS.

SITE MATERIAL INDICATIONS:

- CONCRETE PAVING
- ASPHALT PAVING

ARCHITECTURAL SITE LEGEND:

PROPOSED UTILITY	EXISTING UTILITY	
W	W	WATER MAIN
SA	SAN	SANITARY SEWER
ST	SS	STORM SEWER
GAS	GAS	GAS LINE
UE	UE	UNDERGROUND ELECTRICAL
UGT	UGT	UNDERGROUND TELEPHONE
FO	FO	UNDERGROUND FIBER OPTIC
CATV	CATV	UNDERGROUND CABLE TV
UTIL	UTIL	UNDERGROUND UTILITY

- BUILDING LINE
- PROPERTY LINE
- LANDSCAPE SETBACK
- PROPOSED DRAINAGE
- OR — DECIDUOUS TREE
- CONIFEROUS TREE

REVISION SCHEDULE

Revision Number	Revision Description	Revision Date
1	BID DRAWINGS	04/22/26

NOTE:

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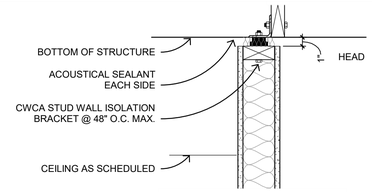
LICENSED ARCHITECT CLINTON E. TAYLOR C-2909 WYOMING STATE OF 06/22/26

NEW RECTORY AT HSCC
HOLY SPIRIT CATHOLIC COMMUNITY
ROCK SPRINGS, WYOMING

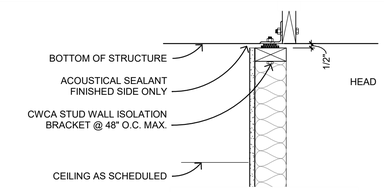
APN: 03-HSCC-26
Date Issued: 06/22/26
Drawn By: CET
Checked By: CET
Sheet Title: ARCHITECTURAL SITE PLAN
Sheet Number: A-111

6/22/2026 12:15:41 PM
Project Status



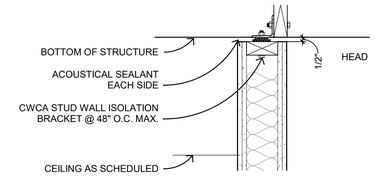
WALL TYPE A

6.4A	*3 1/2"	2x4 STUDS
6.6A	*5 1/2"	2x6 STUDS



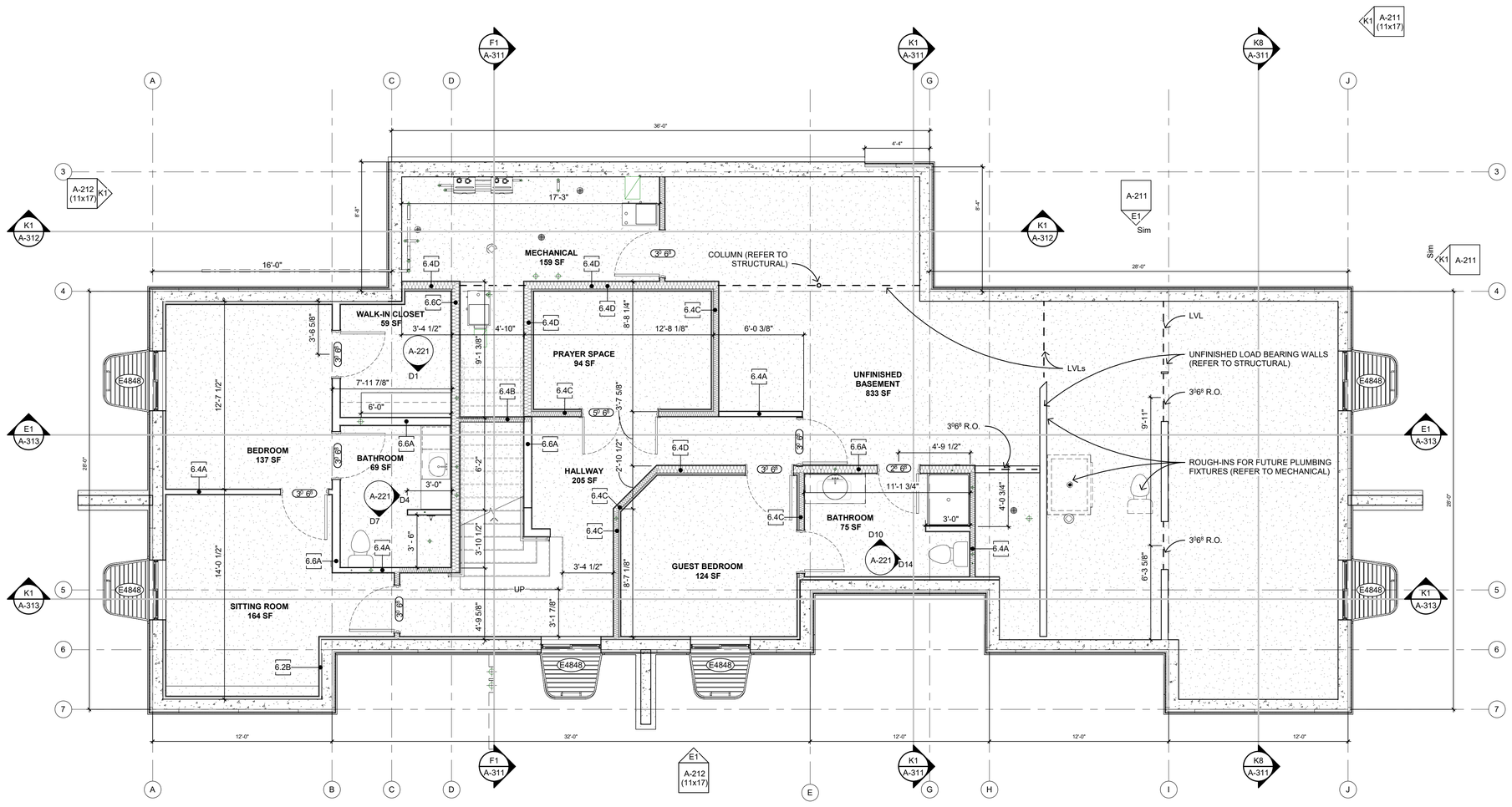
WALL TYPE B

6.4B	*3 1/2"	2x4 STUDS
6.6B	*5 1/2"	2x6 STUDS



WALL TYPE C

6.4C	*3 1/2"	2x4 STUDS
6.6C	*5 1/2"	2x6 STUDS



GENERAL NOTES:

1. REFER TO STRUCTURAL, MECHANICAL, PLUMBING, ELECTRICAL AND OTHER DRAWINGS FOR ADDITIONAL REQUIREMENTS AND COORDINATION.
2. REFER TO ROOM FINISH PLANS FOR ADDITIONAL INFORMATION REGARDING FINISHES.
3. REFER TO WALL TYPES FOR ADDITIONAL REQUIREMENTS.
4. REFER TO REFLECTED CEILING PLANS FOR WALL HEIGHTS.
5. ALL WOOD STUD / GYPSUM BOARD WALLS SHALL BE TYPE "6.4A" UNLESS NOTED OTHERWISE.
6. WOOD STUD / GYPSUM BOARD WALLS THAT APPEAR TO BE CENTERED ON GRIDLINES ARE, UNLESS NOTED OR DIMENSIONED OTHERWISE.
7. PROVIDE CONCEALED WOOD BACKING AND BLOCKING AT ALL WALL MOUNTED DOOR STOPS, TOILET AND BATH ACCESSORIES, WALL CABINETS, WOOD TRIM, TV MOUNTING BRACKETS, ETC.
8. IN GENERAL, DIMENSION ARE GIVEN TO:
   a. COLUMN LINES
   b. STRUCTURAL LINES
   c. FACE OF CONCRETE OR MASONRY WALLS
   d. FACE OF STUDS.
14. IN GENERAL DIMENSIONS ARE GIVEN TO:
   a. NORTH FACE OF INTERIOR PARTITIONS.
   b. WEST FACE OF INTERIOR PARTITIONS.
15. DO NOT SCALE DRAWINGS.

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LICENSED ARCHITECT CLINTON E. TAYLOR C-2909 STATE OF WYOMING 06/22/26

REVISION SCHEDULE

Revision Number	Revision Description	Revision Date

NOTE:

THE ORIGINAL DRAWINGS FOR THIS PROJECT ARE 36" X 24". IF YOU HAVE A SMALLER SET, IT HAS BEEN REDUCED AND DRAWING SCALES ARE NOT VALID.

NEW RECTORY AT HSCC
HOLY SPIRIT CATHOLIC COMMUNITY
ROCK SPRINGS, WYOMING

APN: 03-HSCC-26
Date Issued: 06/22/26
Drawn By: CET
Checked By: CET
Sheet Title: BASEMENT FLOOR PLAN
Sheet Number: A-130

6/22/2026 12:15:42 PM
Project Status

GENERAL NOTES:

1. REFER TO STRUCTURAL, MECHANICAL, PLUMBING, ELECTRICAL AND OTHER DRAWINGS FOR ADDITIONAL REQUIREMENTS AND COORDINATION.
2. REFER TO ROOM FINISH PLANS FOR ADDITIONAL INFORMATION REGARDING FINISHES.
3. REFER TO WALL TYPES FOR ADDITIONAL REQUIREMENTS.
4. REFER TO REFLECTED CEILING PLANS FOR WALL HEIGHTS.
5. ALL WOOD STUD / GYPSUM BOARD WALLS SHALL BE TYPE "6.4A" UNLESS NOTED OTHERWISE.
6. WOOD STUD / GYPSUM BOARD WALLS THAT APPEAR TO BE CENTERED ON GRIDLINES ARE, UNLESS NOTED OR DIMENSIONED OTHERWISE.
7. PROVIDE CONCEALED WOOD BACKING AND BLOCKING AT ALL WALL MOUNTED DOOR STOPS, TOILET AND BATH ACCESSORIES, WALL CABINETS, WOOD TRIM, TV MOUNTING BRACKETS, ETC.
8. IN GENERAL, DIMENSION ARE GIVEN TO:
   a. COLUMN LINES
   b. STRUCTURAL LINES
   c. FACE OF CONCRETE OR MASONRY WALLS
   d. FACE OF STUDS
14. IN GENERAL DIMENSIONS ARE GIVEN TO:
   a. NORTH FACE OF INTERIOR PARTITIONS.
   b. WEST FACE OF INTERIOR PARTITIONS.
15. DO NOT SCALE DRAWINGS.

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LICENSED ARCHITECT CLINTON E TAYLOR C-2909 DATE 06/22/26 STATE OF WY

NEW RECTORY AT HSCC
HOLY SPIRIT CATHOLIC COMMUNITY
ROCK SPRINGS, WYOMING

REVISION SCHEDULE

Revision Number	Revision Description	Revision Date

NOTE:
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APN: 03-HSCC-26
Date Issued: 06/22/26
Drawn By: CET
Checked By: CET
Sheet Title: MAIN LEVEL FLOOR PLAN
Sheet Number: A-131

6/22/2026 12:15:43 PM
Project Status

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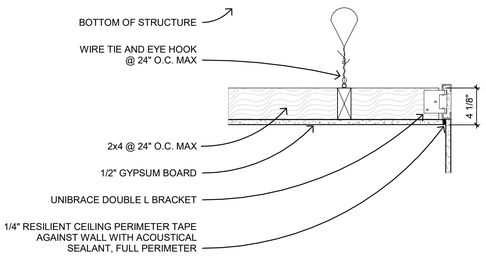

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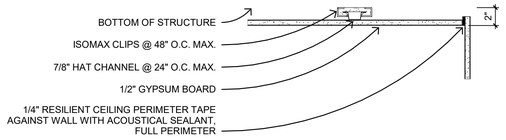

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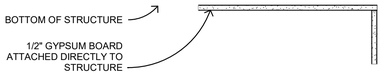
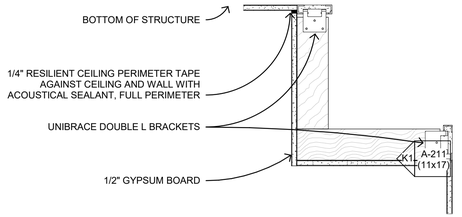
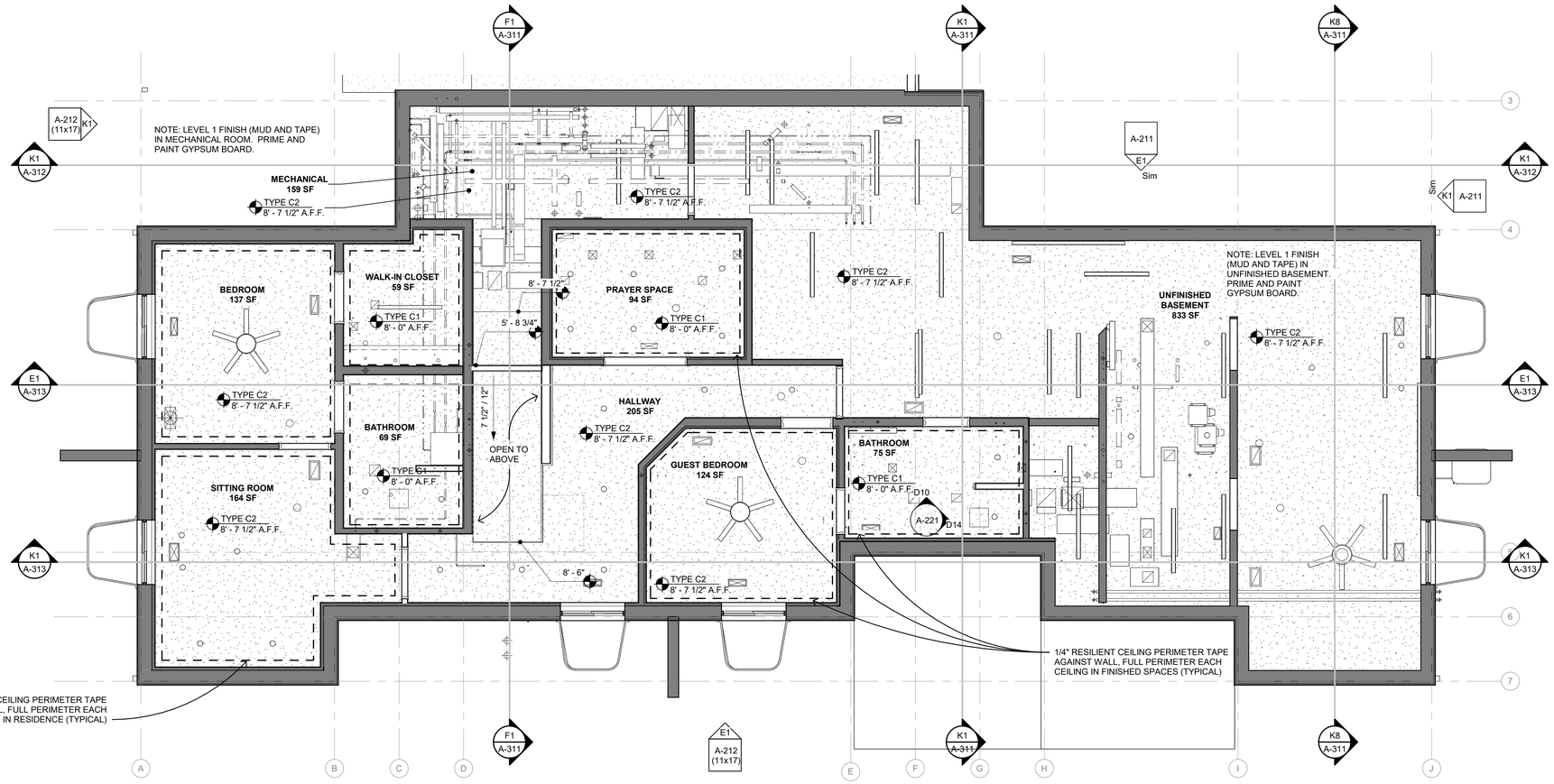


UNBRACED SOFFIT





GENERAL NOTES:

1. REFER TO STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR ADDITIONAL REQUIREMENTS AND COORDINATION.
2. REFER TO ROOM FINISH PLANS FOR ADDITION INFORMATION REGARDING FINISHES.
3. UNLESS NOTED OTHERWISE, GYPSUM BOARD CEILINGS SHALL BE SUPPORTED BY RIGID FURRING CHANNELS @ 16" OC ON 1-1/2" CEILING CARRYING CHANNELS @ 48" OC SUSPENDED FROM THE STRUCTURE ABOVE.
4. IN GENERAL DIMENSION ARE GIVEN TO:
   a. COLUMN LINES
   b. STRUCTURAL LINES
   c. FACE OF CONCRETE OR MASONRY WALLS
   d. FACE OF STUDS

LEGEND:

SYMBOL	DESCRIPTION
	2' x 4' SUSPENDED GRID ACOUSTICAL PANEL CEILING
	GYPSUM BOARD CEILING / SOFFIT
	WOOD PANELING CEILING - ALTERNATE BID ITEM
	CEILING FAN
	HVAC - SUPPLY AIR DIFFUSER (SIZE VARIES) REFER TO MECHANICAL
	HVAC - RETURN AIR GRILLE (SIZE VARIES) REFER TO MECHANICAL
	FLUORESCENT LIGHT FIXTURE - PENDANT HUNG (SIZE VARIES) REFER TO ELECTRICAL
	FLUORESCENT LIGHT FIXTURE - WALL MOUNT - REFER TO ELECTRICAL
	FLUORESCENT LIGHT FIXTURE - FLUSH/LAY-IN (SIZE VARIES) REFER TO ELECTRICAL
	FLUORESCENT LIGHT FIXTURE - EMERGENCY FLUSH/LAY-IN (SIZE VARIES) REFER TO ELECTRICAL
	RECESSED CAN LIGHT OR OTHER
	CEILING GRID LAYOUT STARTING POINT - IF NOT CENTERED IN ROOM
	CEILING OR WALL MOUNTED EXIT SIGN
	SKYLIGHT DIFFUSER

PARTITIONS ARE SHADED IN THE FOLLOWING MANNER:

NO SHADING INDICATES WALL EXTENDS 4" MIN ABOVE FINISH CEILING.

SHADING INDICATES WALL EXTENDS TO DECK (OR THROUGH SECOND FLOOR WHERE OCCURS).

KEYNOTE LEGEND

REVISION SCHEDULE

Revision Number	Revision Description	Revision Date

NOTE:

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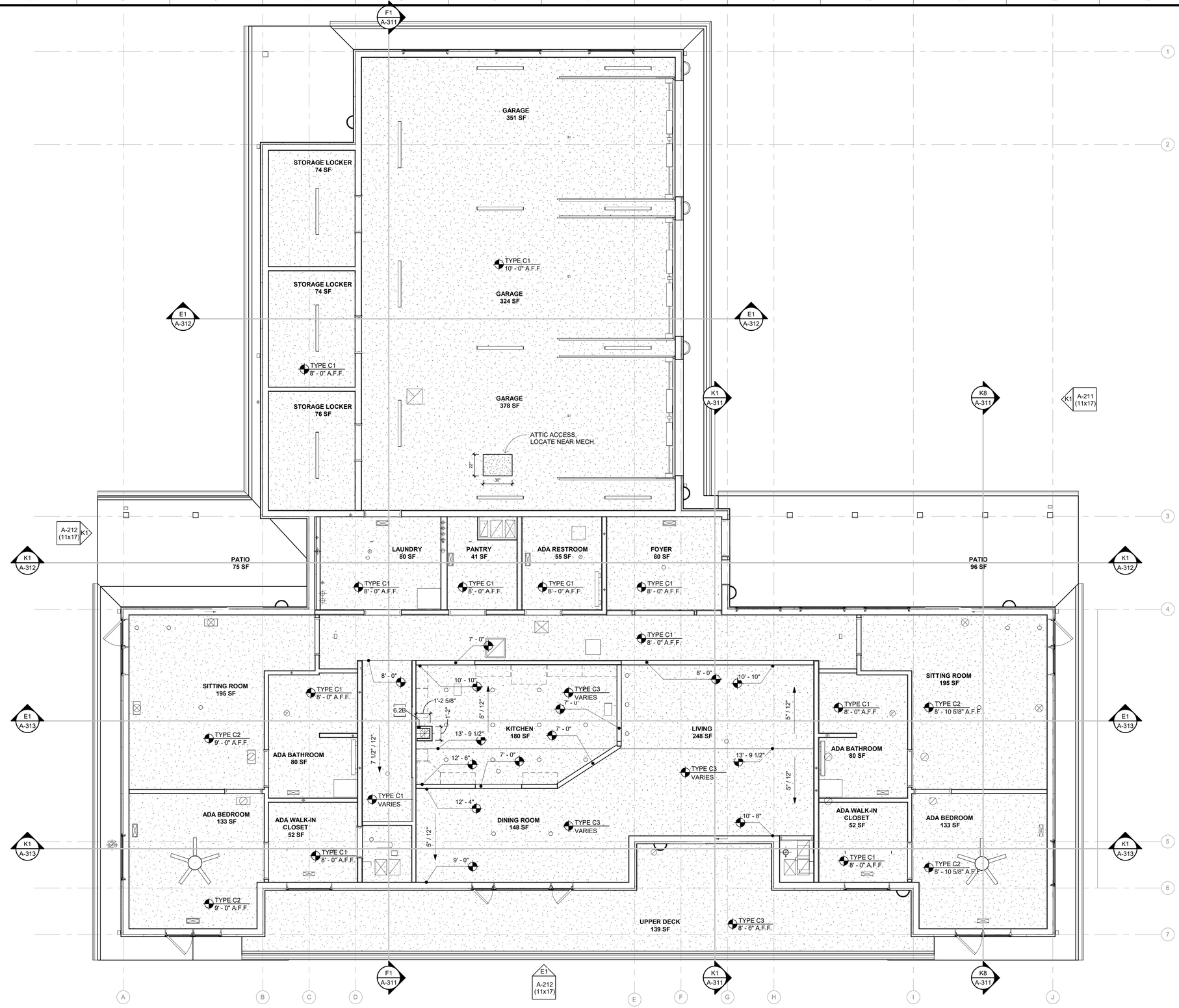
LICENSED ARCHITECT CLINTON E TAYLOR C-2009 06/22/26 STATE OF WYOMING

NEW RECTORY AT HSCC
HOLY SPIRIT CATHOLIC COMMUNITY
ROCK SPRINGS, WYOMING

APN: 03-HSCC-26
Date Issued: 06/22/26
Drawn By: CET
Checked By: CET
Sheet Title: LOWER LEVEL REFLECTED CEILING PLAN
Sheet Number: A-140

6/22/2026 12:15:44 PM
Project Status



GENERAL NOTES:

1. REFER TO STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR ADDITIONAL REQUIREMENTS AND COORDINATION.
2. REFER TO ROOM FINISH PLANS FOR ADDITION INFORMATION REGARDING FINISHES.
3. UNLESS NOTED OTHERWISE, GYPSUM BOARD CEILINGS SHALL BE SUPPORTED BY RIGID FURRING CHANNELS @ 16" OC ON 1-1/2" CEILING CARRYING CHANNELS @ 48" OC SUSPENDED FROM THE STRUCTURE ABOVE.
4. IN GENERAL DIMENSION ARE GIVEN TO:
   a. COLUMN LINES
   b. STRUCTURAL LINES
   c. FACE OF CONCRETE OR MASONRY WALLS
   d. FACE OF STUDS

LEGEND:

SYMBOL	DESCRIPTION
	2' x 4' SUSPENDED GRID ACOUSTICAL PANEL CEILING
	GYPSUM BOARD CEILING / SOFFIT
	WOOD PANELING CEILING - ALTERNATE BID ITEM
	CEILING FAN
	HVAC - SUPPLY AIR DIFFUSER (SIZE VARIES) REFER TO MECHANICAL
	HVAC - RETURN AIR GRILLE (SIZE VARIES) REFER TO MECHANICAL
	FLUORESCENT LIGHT FIXTURE - PENDANT HUNG (SIZE VARIES) REFER TO ELECTRICAL
	FLUORESCENT LIGHT FIXTURE - WALL MOUNT - REFER TO ELECTRICAL
	FLUORESCENT LIGHT FIXTURE - FLUSH/LAY-IN (SIZE VARIES) REFER TO ELECTRICAL
	FLUORESCENT LIGHT FIXTURE - EMERGENCY FLUSH/LAY-IN (SIZE VARIES) REFER TO ELECTRICAL
	RECESSED CAN LIGHT OR OTHER
	CEILING GRID LAYOUT STARTING POINT - IF NOT CENTERED IN ROOM
	CEILING OR WALL MOUNTED EXIT SIGN
	SKYLIGHT DIFFUSER
	PARTITIONS ARE SHADED IN THE FOLLOWING MANNER:
	NO SHADING INDICATES WALL EXTENDS 4" MIN ABOVE FINISH CEILING.
	SHADING INDICATES WALL EXTENDS TO DECK (OR THROUGH SECOND FLOOR WHERE OCCURS).

KEYNOTE LEGEND

REVISION SCHEDULE

Revision Number	Revision Description	Revision Date

NOTE:

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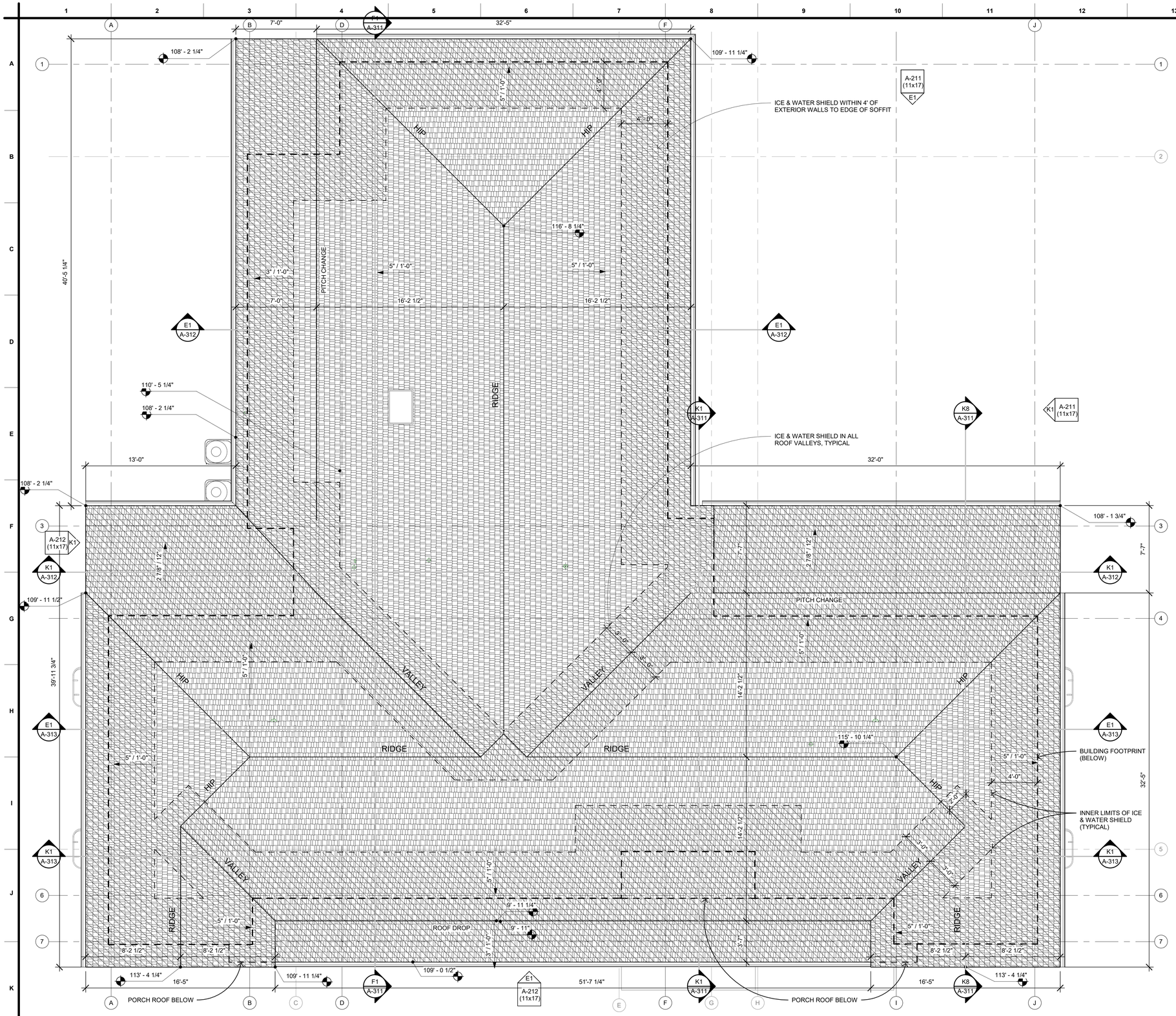
LICENSED ARCHITECT CLINTON E TAYLOR C-2909 WYOMING 06/22/26 STATE OF

NEW RECTORY AT HSCC
HOLY SPIRIT CATHOLIC COMMUNITY
ROCK SPRINGS, WYOMING

APN: 03-HSCC-26
Date Issued: 06/22/26
Drawn By: CET
Checked By: CET
Sheet Title: MAIN LEVEL REFLECTED CEILING PLAN
Sheet Number: A-141

6/22/2026 12:15:45 PM
Project Status



GENERAL NOTES:

1. ALL ROOF SLOPES ARE APPROXIMATE. REFER TO BEARING ELEVATIONS SHOWN ON STRUCTURAL PLANS FOR ACTUAL ELEVATION CHANGES.
2. ALL MECHANICAL EQUIPMENT, SKYLIGHTS, ETC. SHALL BE INSTALLED ON CURBS.
3. ALL ROOF CURBS SHALL BE INSULATED. ALL VOIDS AND UNUSED SPACE WITHIN THE CURB SHALL BE FILLED WITH BATT INSULATION.
4. ALL WOOD MEMBERS SHALL BE FIRE RETARDANT TREATED.
5. FORM CRICKETS, WITH THE FLOW LINE AT 45 DEGREES TO SLOPE OF THE ROOF, ON THE UP-SLOPE SIDE OF ALL ROOF OBSTRUCTIONS (MECHANICAL EQUIPMENT CURBS, TUBULAR SKYLIGHTS, ETC.) EQUAL TO OR GREATER THAN 12 INCHES IN WIDTH ACROSS THE SLOPE.
6. CRICKETS SHALL BE LAID OUT AT APPROXIMATELY 2:1 LENGTH TO WIDTH PROPORTIONS (26.6 DEGREES). REFER TO DETAIL.
7. COORDINATE LOCATION OF MECHANICAL EQUIPMENT, PLUMBING VENTS, ELECTRICAL PENETRATIONS, ETC. TO ENSURE ADEQUATE CLEARANCE FOR FLASHING, ETC. WITH MECHANICAL, PLUMBING AND ELECTRICAL CONTRACTORS.
8. INSTALL ROOF DRAIN LEADERS, FROM DRAIN ASSEMBLIES TO DRAIN CHASE, AT HIGHEST ELEVATION POSSIBLE WHILE MAINTAINING REQUIRED SLOPE.
9. PROVIDE PRECAST CONCRETE SPLASH PADS AT ALL DOWNSPOUTS AND DOWNSPOUT NOZZLES (LAMBS TONGUES) NOT TERMINATING INTO A TRENCH DRAIN OR SIDEWALK PLATE.
10. REFER TO ROOFING DETAILS FOR ADDITIONAL REQUIREMENTS.
11. PAINT ALL PIPING, EQUIPMENT, ETC. (MECHANICAL, ELECTRICAL, PLUMBING, ETC.), ON THE ROOF THAT IS NOT PREFINISHED.

LEGEND:

- ASPHALT SHINGLES
- 10' - 0" ROOF EDGE SAFETY ZONE
- INDICATES ROOF SLOPE (DOWN)
- GUTTER AND DOWNSPOUT
- EXHAUST FAN
- PLUMBING VENT

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LICENSED ARCHITECT CLINTON E TAYLOR C-2909 WYOMING 06/22/26 STATE OF

REVISION SCHEDULE

Revision Number	Revision Description	Revision Date

NEW RECTORY AT HSCC
HOLY SPIRIT CATHOLIC COMMUNITY
ROCK SPRINGS, WYOMING

APN:	Date Issued:
03-HSCC-26	06/22/26
Drawn By:	**Checked By:**
CET	CET

Sheet Title:

ROOF PLAN

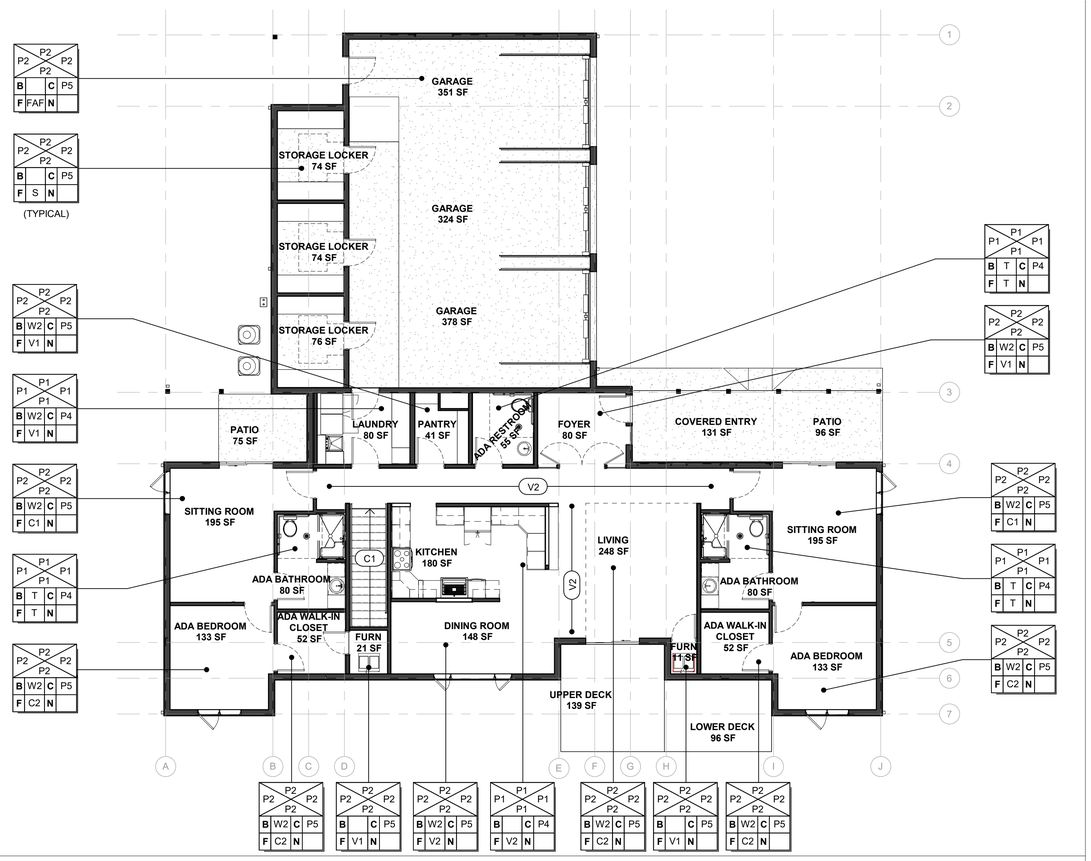
Sheet Number:

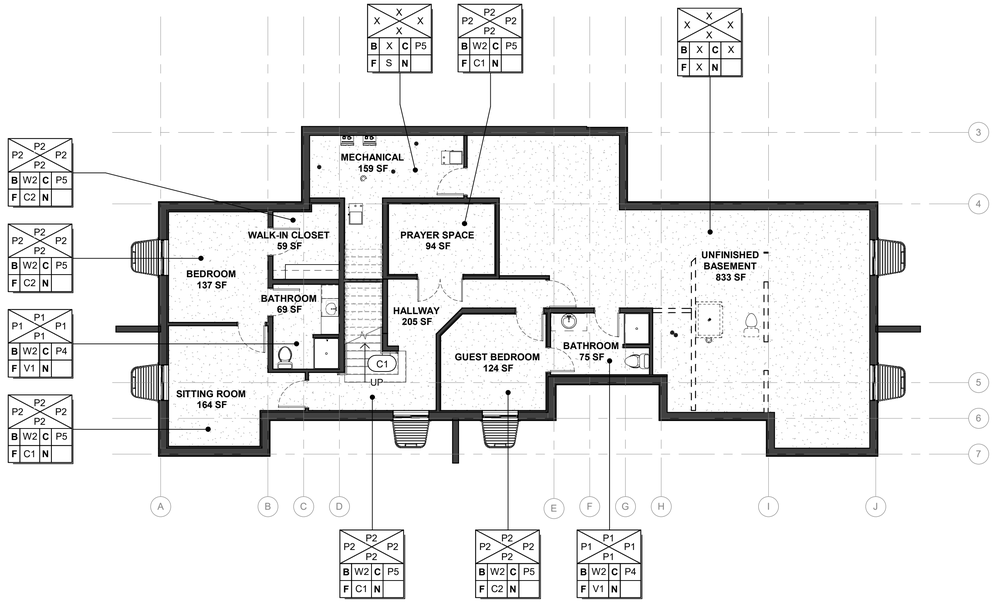
A-171

NOTE:

THE ORIGINAL DRAWINGS FOR THIS PROJECT ARE 36" X 24". IF YOU HAVE A SMALLER SET, IT HAS BEEN REDUCED AND DRAWING SCALES ARE NOT VALID.

6/22/2026 12:15:46 PM
Project Status

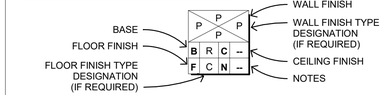




GENERAL NOTES:

1. CEILINGS HEIGHTS VARY, REFER TO REFLECTED CEILING PLAN / ELEVATIONS FOR HEIGHTS.
2. REFER TO INTERIOR ELEVATIONS AND REFLECTED CEILING PLANS FOR CLARIFICATION OF EXTENT OF FINISHES WHERE MULTIPLE FINISHES ARE INDICATED.
3. REFER TO STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR ADDITIONAL REQUIREMENTS AND COORDINATION.
4. ALL EXPOSED CONDUIT, PIPE, SHEET METAL, ETC. INSIDE OR OUTSIDE OF THE BUILDING SHALL BE PAINTED EXCEPT IN MECHANICAL ROOMS OR PIPE CHASES.
5. REFER TO INTERIOR ELEVATIONS AND OR REFLECTED CEILING PLANS FOR CLARIFICATION OF EXTENT OF FINISHES WHERE MULTIPLE FINISHES ARE INDICATED.

ROOM FINISH LEGEND:



FINISH SCHEDULE

TYPE	DESCRIPTION
C1	CARPET MODULAR TILES - TYPE C1
C1	CARPET MODULAR TILES - TYPE C1
V2	VINYL WALLCOVERING (TACKABLE)
V2	VINYL WALLCOVERING (TACKABLE)
WALL	
P1	EPOXY PAINT
P2	LATEX PAINT
P3	LATEX PAINT ACCENT COLOR
T	PORCELAIN TILE WALL WAINSCOT W/ P1 WALL PAINT ABOVE
FLOOR	
C1	CARPET MODULAR TILES - TYPE C1
C2	CARPET MODULAR TILES - TYPE C2
FAF	FLUID-APPLIED FLOORING (FAF)
S	CONCRETE SLAB, SEALED
T	PORCELAIN TILE
V1	LUXURY VINYL PLANK (LVP) - TYPE V1
V2	LUXURY VINYL PLANK (LVP) - TYPE V2
BASE	
W2	WOOD BASE, 4" HIGH
CEILING	
P4	EPOXY PAINT ON GYPSUM BOARD CEILING
P5	LATEX PAINT ON GYPSUM BOARD CEILING

REVISION SCHEDULE

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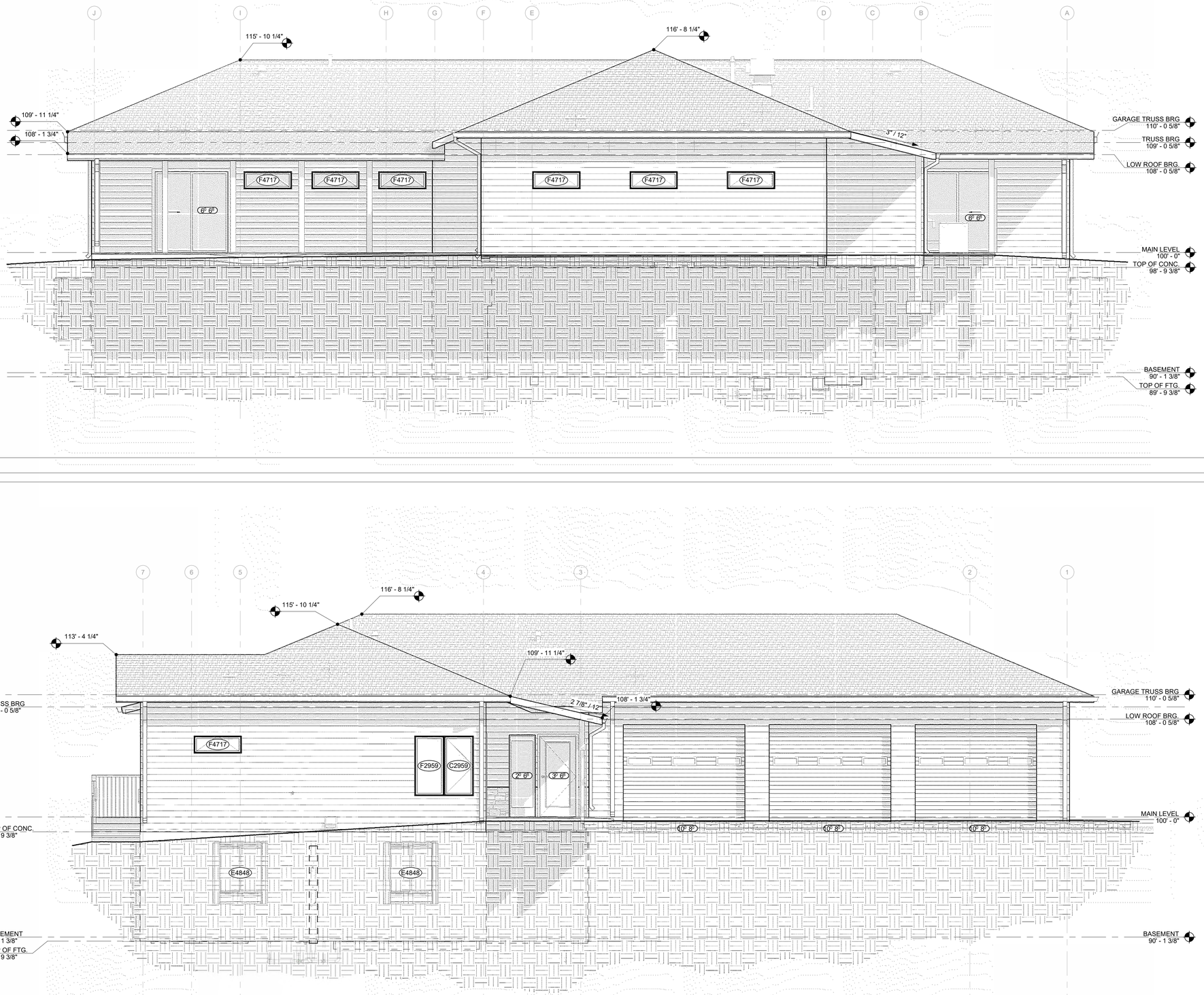
LICENSED ARCHITECT CLINTON E. TAYLOR C-2609 STATE OF WYOMING 06/22/26

NEW RECTORY AT HSCC
HOLY SPIRIT CATHOLIC COMMUNITY
ROCK SPRINGS, WYOMING

APN: 03-HSCC-26 **Date Issued:** 06/22/26
Drawn By: CET **Checked By:** CET
Sheet Title: ROOM FINISH PLANS
Sheet Number: A-191

6/22/2026 12:15:47 PM
Project Status



GENERAL NOTES:

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2. REFER TO ROOM FINISH PLANS FOR ADDITIONAL INFORMATION REGARDING FINISHES.
3. REFER TO WALL TYPES DETAILS FOR ADDITIONAL REQUIREMENTS.
4. REFER TO CEILING TYPES DETAILS FOR ADDITIONAL REQUIREMENTS.
5. WINDOWS SHALL BE FRAMED WITH THE TOP OF THE EXTERIOR PORTION OF THE FRAME AT THE SAME HEIGHT AS THE TOP OF THE FRAME OF THE EXTERIOR DOORS, UNLESS NOTED OR SHOWN OTHERWISE.
6. SEAL ALL JOINTS IN THE BUILDING EXTERIOR TO PROVIDE A WEATHER TIGHT CONDITION.
7. SEALANT COLOR SHALL BE SELECTED BY THE ARCHITECT. MORE THAN ONE SEALANT COLORS MAY BE REQUIRED.
8. NOTE: TRUSS BEARING HEIGHTS ARE BASED ON THE TOP OF THE 3/4" SUBFLOOR BEING AT ELEVATION 99'-11 1/2". MAIN LEVEL 100'-0" IS THE TOP OF THE 1/2" UNDERLAYMENT, WHERE REQUIRED BY FLOORING MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.
9. ATTACHED MEASURING DEVICE MUST BE INSTALL WHERE BLOWN IN INSULATION IS USED.

REVISION SCHEDULE

Revision Number	Revision Description	Revision Date

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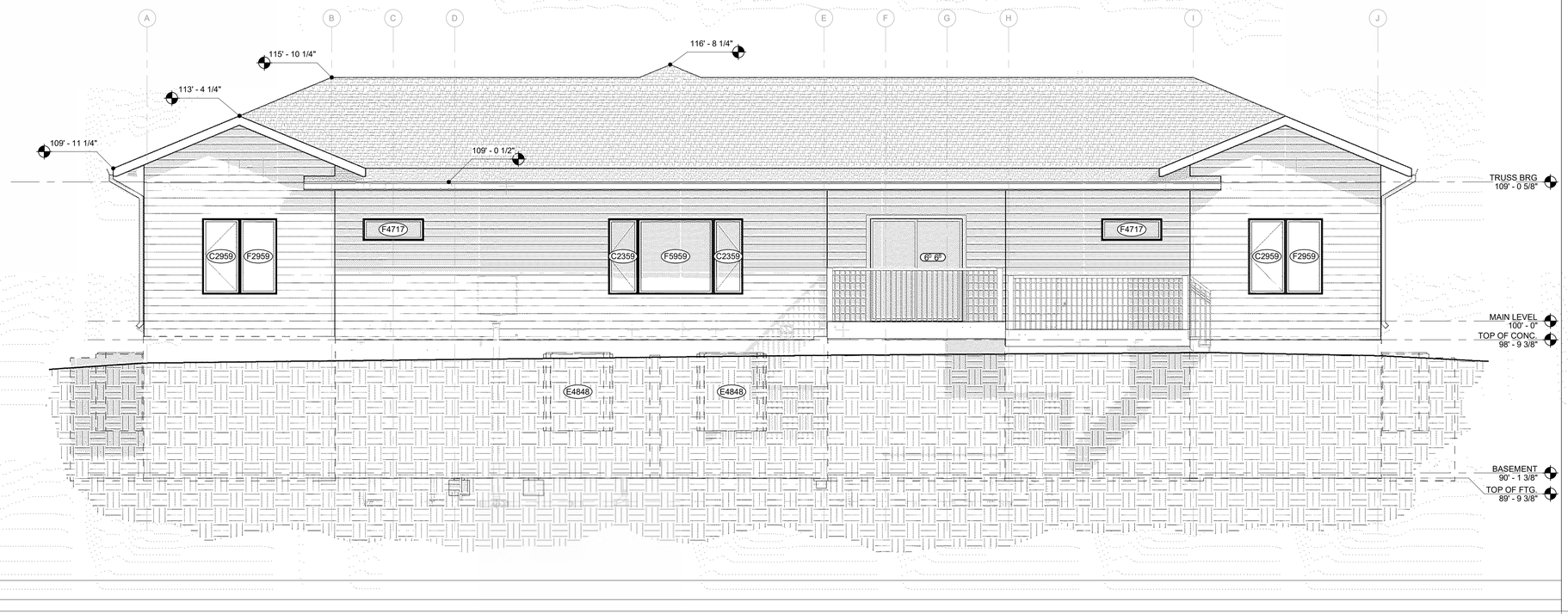
LICENSED ARCHITECT CLIVE N E TAYLOR C-2909 STATE OF WYOMING 06/22/26

NEW RECTORY AT HSCC
HOLY SPIRIT CATHOLIC COMMUNITY
ROCK SPRINGS, WYOMING

APN: 03-HSCC-26 **Date Issued:** 06/22/26
Drawn By: CET **Checked By:** CET
Sheet Title: EXTERIOR ELEVATIONS
Sheet Number: A-211

6/22/2026 12:15:50 PM
Project Status



GENERAL NOTES:

1. REFER TO STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR ADDITIONAL REQUIREMENTS AND COORDINATION.
2. REFER TO ROOM FINISH PLANS FOR ADDITIONAL INFORMATION REGARDING FINISHES.
3. REFER TO WALL TYPES DETAILS FOR ADDITIONAL REQUIREMENTS.
4. REFER TO CEILING TYPES DETAILS FOR ADDITIONAL REQUIREMENTS.
5. WINDOWS SHALL BE FRAMED WITH THE TOP OF THE EXTERIOR PORTION OF THE FRAME AT THE SAME HEIGHT AS THE TOP OF THE FRAME OF THE EXTERIOR DOORS, UNLESS NOTED OR SHOWN OTHERWISE.
6. SEAL ALL JOINTS IN THE BUILDING EXTERIOR TO PROVIDE A WEATHER TIGHT CONDITION.
7. SEALANT COLOR SHALL BE SELECTED BY THE ARCHITECT. MORE THAN ONE SEALANT COLORS MAY BE REQUIRED.
8. NOTE: TRUSS BEARING HEIGHTS ARE BASED ON THE TOP OF THE 3/4" SUBFLOOR BEING AT ELEVATION 99'-11 1/2". MAIN LEVEL 100'-0" IS THE TOP OF THE 1/2" UNDERLAYMENT, WHERE REQUIRED BY FLOORING MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.
9. ATTACHED MEASURING DEVICE MUST BE INSTALL WHERE BLOWN IN INSULATION IS USED.

REVISION SCHEDULE

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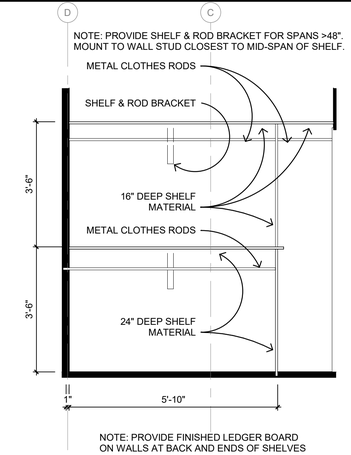
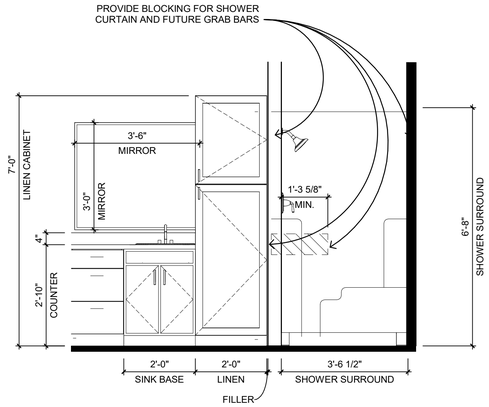
LICENSED ARCHITECT CLIVE E TAYLOR C-2909 STATE OF WYOMING 06/22/26

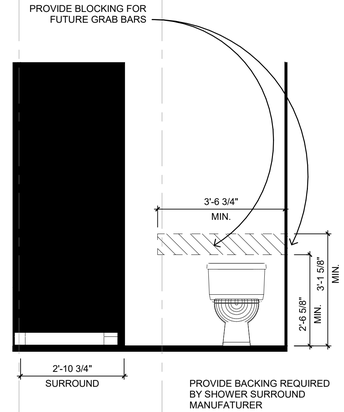
NEW RECTORY AT HSCC
HOLY SPIRIT CATHOLIC COMMUNITY
ROCK SPRINGS, WYOMING

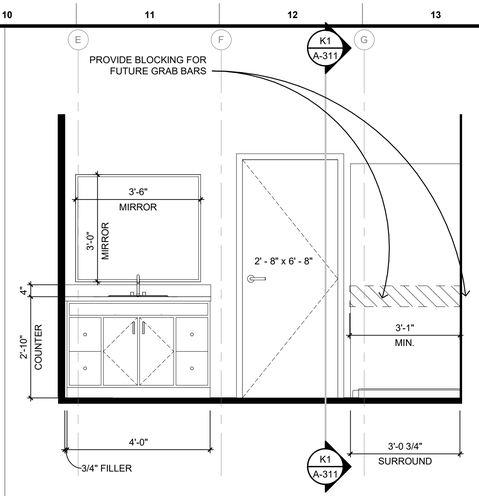
APN: 03-HSCC-26 **Date Issued:** 06/22/26
Drawn By: CET **Checked By:** CET
Sheet Title: EXTERIOR ELEVATIONS
Sheet Number: A-212

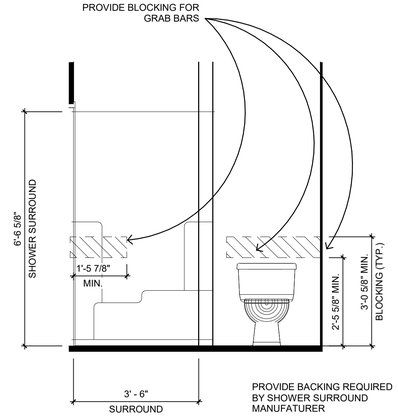
6/22/2026 12:15:53 PM
Project Status

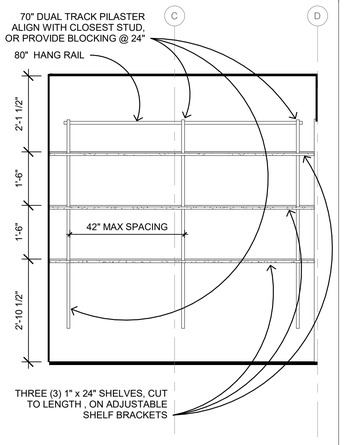




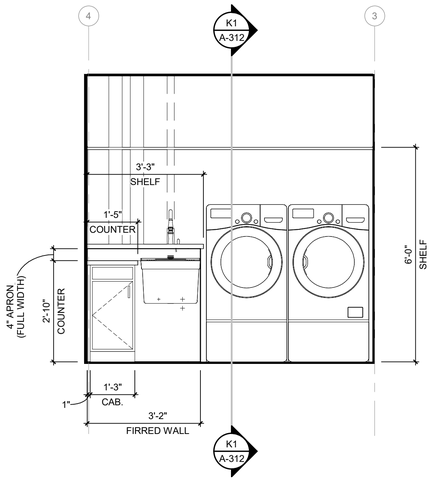


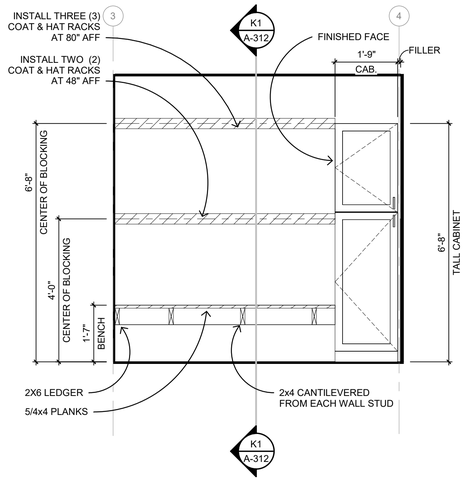


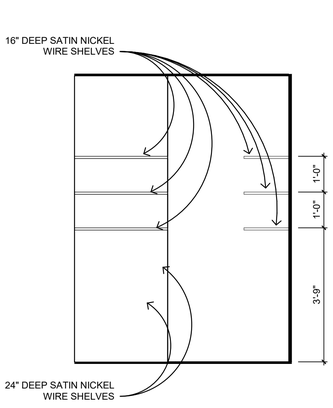




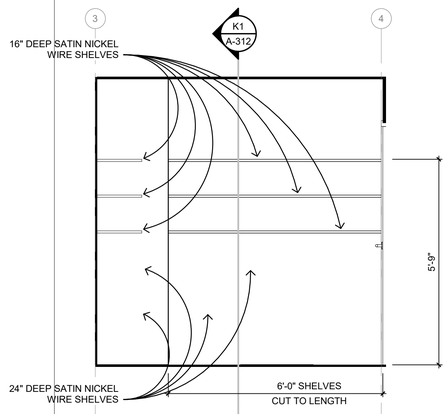
NOTE: THESE SUPPORT DETAILS ARE TYPICAL ALL ADJUSTABLE SHELVES, ADJUST BRACKET DEPTH FOR SHELF DEPTH NOTED.







REFER TO D1/A-221 FOR ADJUSTABLE SHELF SUPPORT DETAILS



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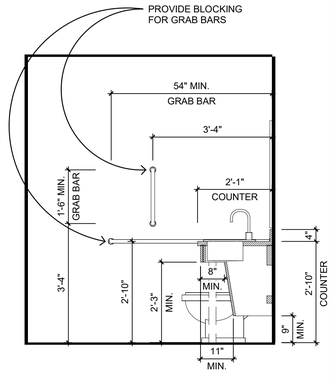

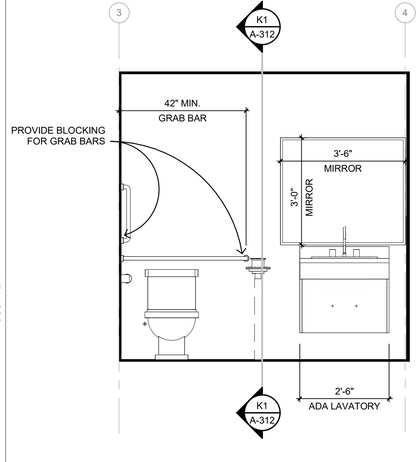

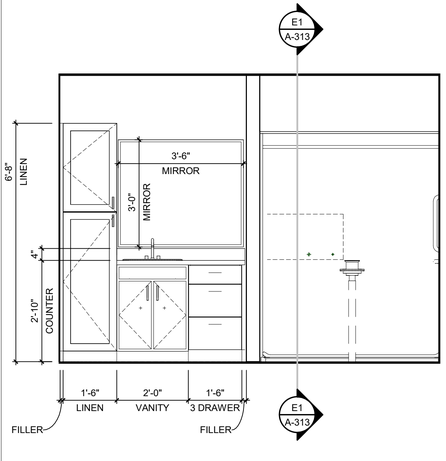

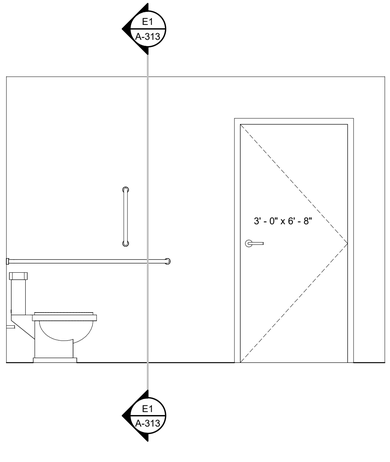

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REVISION SCHEDULE

Revision Number	Revision Description	Revision Date

INDIAN PAINTBRUSH ARCHITECTURE, LLC
9704 VERA LANE
CHEYENNE, WYOMING 82009
307.212.2736 IndianPaintbrushArch.com

LICENSED ARCHITECT CLINTON E. TAYLOR C-2909 STATE OF WYOMING 06/22/26

NEW RECTORY AT HSCC
HOLY SPIRIT CATHOLIC COMMUNITY
ROCK SPRINGS, WYOMING

APN: 03-HSCC-26
Date Issued: 06/22/26
Drawn By: CET
Checked By: CET
Sheet Title: INTERIOR ELEVATIONS
Sheet Number: A-221

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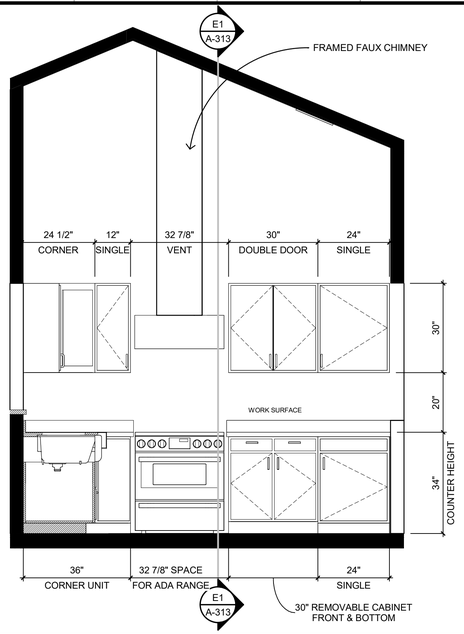
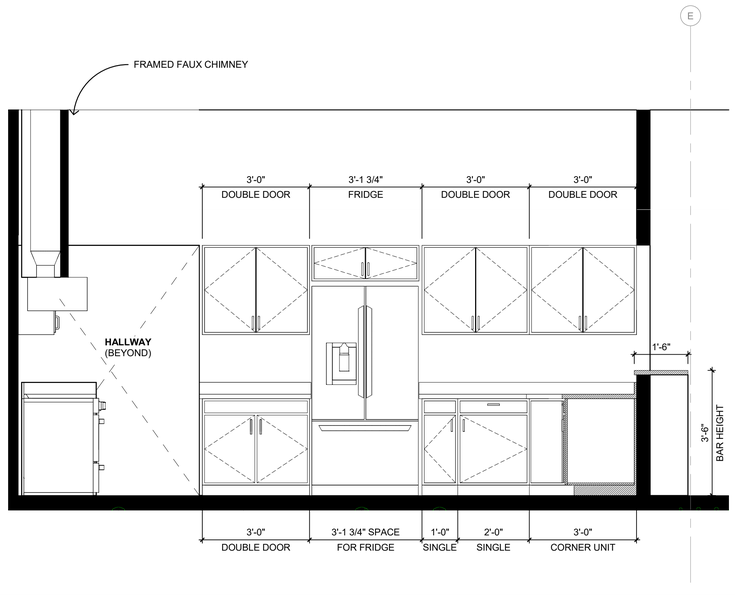
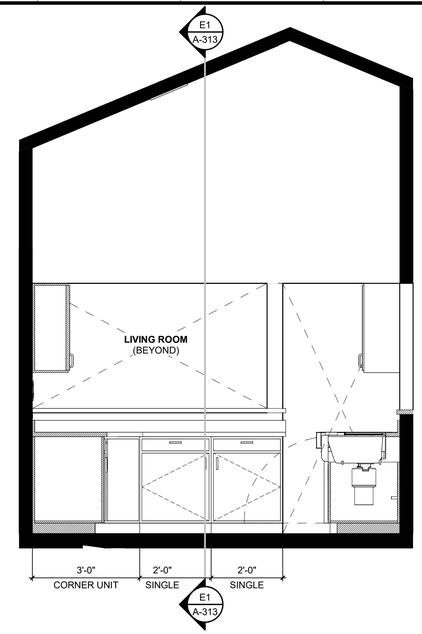
Project Status







INTERIOR - GENERAL NOTES:

1. CEILING HEIGHTS VARY, REFER TO REFLECTED CEILING PLAN FOR HEIGHTS.
2. REFER TO STRUCTURAL, MECHANICAL, PLUMBING, ELECTRICAL AND OTHER DRAWINGS FOR ADDITIONAL REQUIREMENTS AND COORDINATION.
3. ALL EXPOSED CONDUIT, PIPE, SHEET METAL, ETC., SHALL BE PAINTED EXCEPT IN MECHANICAL ROOMS AND PIPE CHASES.
4. ALL HOLLOW METAL DOORS AND FRAMES SHALL BE PAINTED.
5. TRANSITIONS SHALL BE PROVIDED BETWEEN DISSIMILAR MATERIALS, UNLESS NOTED OTHERWISE. REFER TO SPECIFICATIONS FOR TRANSITION PROPERTIES.
6. ROOM SIGNAGE FOR GLASS PARTITIONS SHALL BE VINYL LETTERING. SEE SPECIFICATIONS FOR DETAILS.
7. PROVIDE CONCEALED WOOD BACKING AND BLOCKING AT ALL WALL MOUNTED DOOR STOPS, WOOD TRIM, TV MOUNTING BRACKETS, ETC.
8. ITEMS SHOWN IN GRAY AND/OR DASHED ARE OWNER PROVIDED UNLESS NOTED OTHERWISE.
9. REFER TO ROOM FINISH SCHEDULE FOR FINISH ANNOTATION LEGEND.
10. DO NOT SCALE DRAWINGS.

2010 ADA STANDARDS FOR ACCESSIBLE DESIGN (ADA)

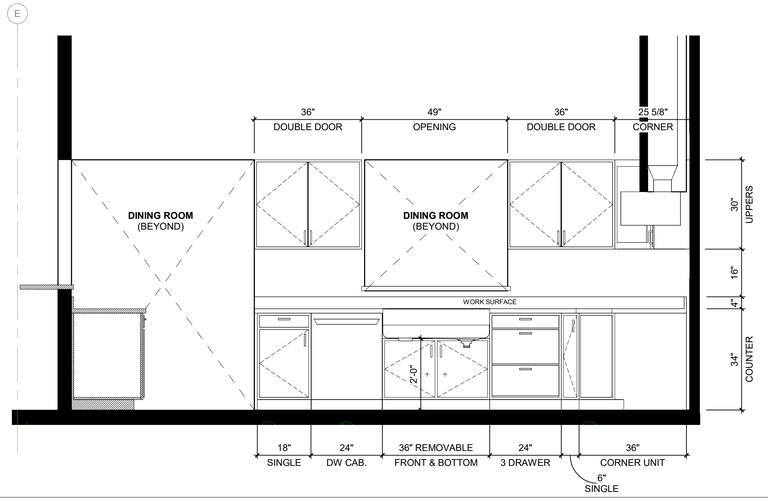
106 DEFINITIONS

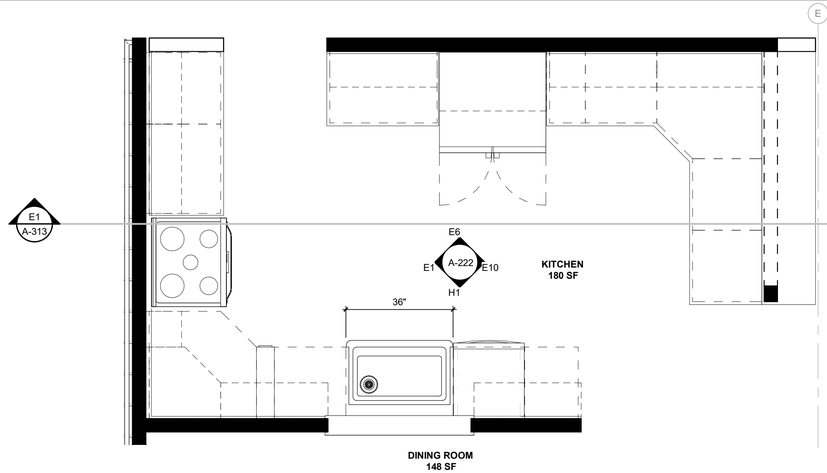
RESIDENTIAL DWELLING UNIT. A UNIT INTENDED TO BE USED AS A RESIDENCE, THAT IS PRIMARILY LONG-TERM IN NATURE. RESIDENTIAL DWELLING UNITS DO NOT INCLUDE TRANSIENT LODGING, INPATIENT MEDICAL CARE, LICENSED LONG-TERM CARE, AND DETENTION OR CORRECTIONAL FACILITIES.

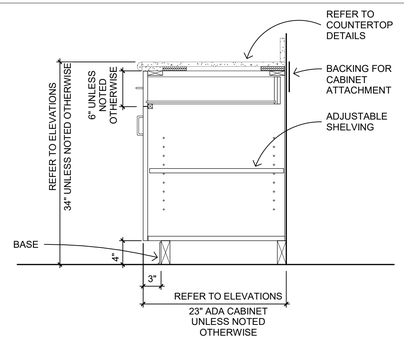
804 KITCHENS AND KITCHENETTES

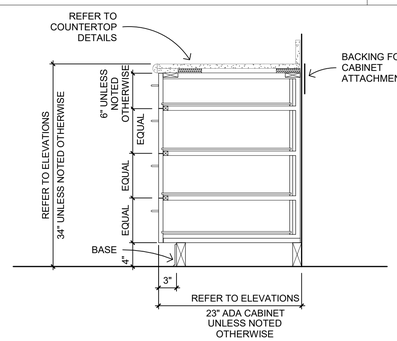
AT LEAST ONE 30" WIDE SECTION OF COUNTER SHALL PROVE A KITCHEN WORK SURFACE:

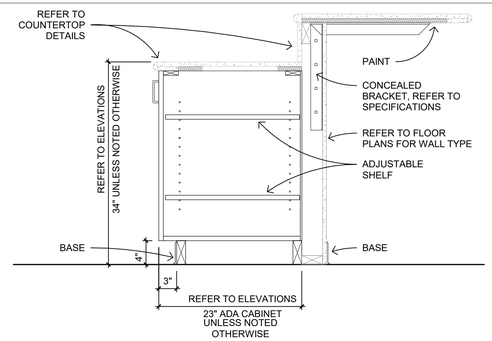
1. CLEAR FLOOR SPACE POSITIONED FOR A FORWARD APPROACH
2. CABINETRY SHALL BE PERMITTED UNDER KITCHEN WORK SURFACE IF:
   a. THE CABINETRY CAN BE REMOVED WITHOUT REMOVAL OR REPLACEMENT OF THE KITCHEN WORK SURFACE;
   b. THE FINISH FLOOR EXTENDS UNDER THE CABINETRY; AND
   c. WALLS BEHIND AND SURROUNDING THE CABINETRY ARE FINISHED.
3. HEIGHT SHALL BE 34".

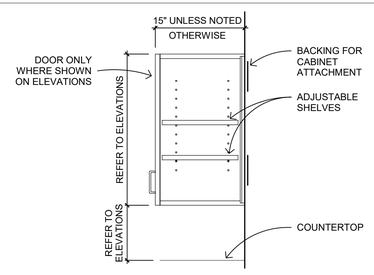












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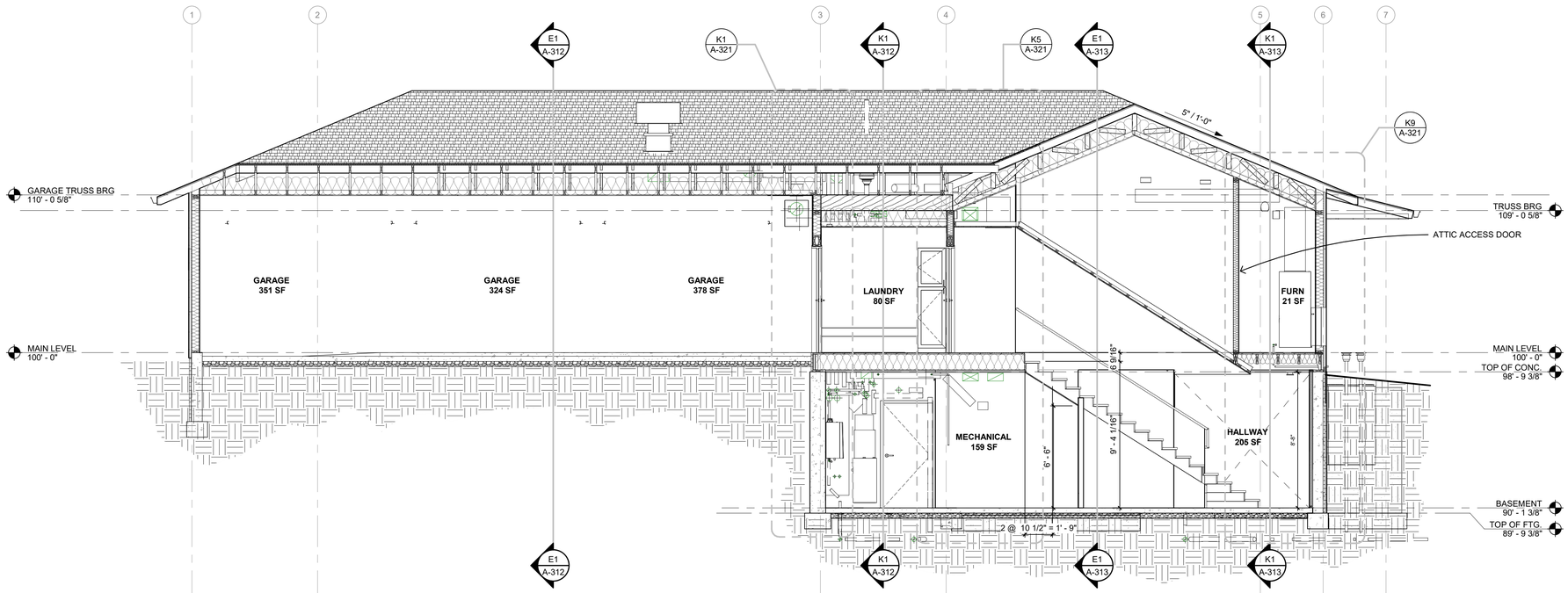
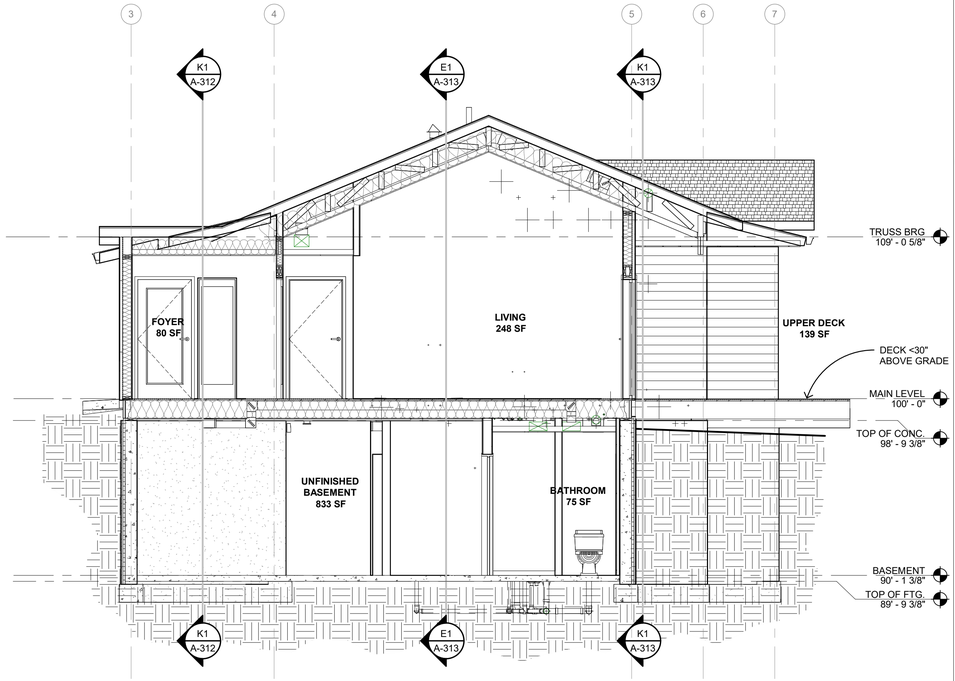
LICENSED ARCHITECT CLAYTON E. TAYLOR C-2909 WYOMING 06/22/26 STATE OF

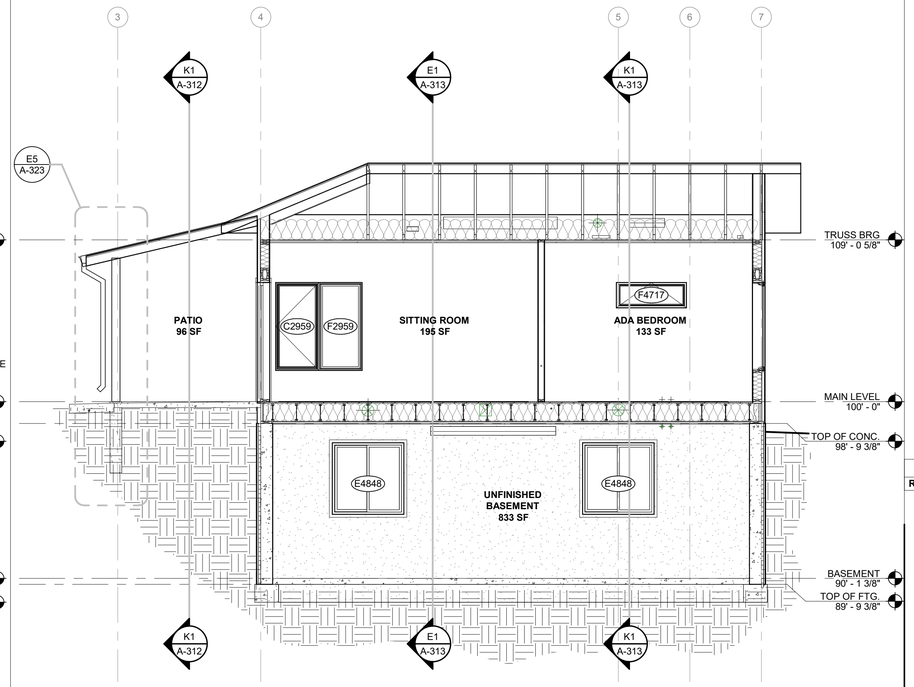
NEW RECTORY AT HSCC
HOLY SPIRIT CATHOLIC COMMUNITY
ROCK SPRINGS, WYOMING

APN: 03-HSCC-26
Date Issued: 06/22/26
Drawn By: CET
Checked By: CET
Sheet Title: INTERIOR ELEVATIONS
Sheet Number: A-222

6/22/2026 12:15:55 PM
Project Status







GENERAL NOTES:

1. REFER TO STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR ADDITIONAL REQUIREMENTS AND COORDINATION.
2. REFER TO ROOM FINISH PLANS FOR ADDITIONAL INFORMATION REGARDING FINISHES.
3. REFER TO WALL TYPES DETAILS FOR ADDITIONAL REQUIREMENTS.
4. REFER TO CEILING TYPES DETAILS FOR ADDITIONAL REQUIREMENTS.
5. WINDOWS SHALL BE FRAMED WITH THE TOP OF THE EXTERIOR PORTION OF THE FRAME AT THE SAME HEIGHT AS THE TOP OF THE FRAME OF THE EXTERIOR DOORS, UNLESS NOTED OR SHOWN OTHERWISE.
6. SEAL ALL JOINTS IN THE BUILDING EXTERIOR TO PROVIDE A WEATHER TIGHT CONDITION.
7. SEALANT COLOR SHALL BE SELECTED BY THE ARCHITECT. MORE THAN ONE SEALANT COLORS MAY BE REQUIRED.
8. NOTE: TRUSS BEARING HEIGHTS ARE BASED ON THE TOP OF THE 3/4" SUBFLOOR BEING AT ELEVATION 99'-11 1/2". MAIN LEVEL 100'-0" IS THE TOP OF THE 1/2" UNDERLAYMENT, WHERE REQUIRED BY FLOORING MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.
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LICENSED ARCHITECT CLAYTON E. TAYLOR C-2909 STATE OF WYOMING 06/22/26

NEW RECTORY AT HSCC
HOLY SPIRIT CATHOLIC COMMUNITY
ROCK SPRINGS, WYOMING

APN: 03-HSCC-26
Date Issued: 06/22/26
Drawn By: CET
Checked By: CET
Sheet Title: BUILDING SECTIONS
Sheet Number: A-311

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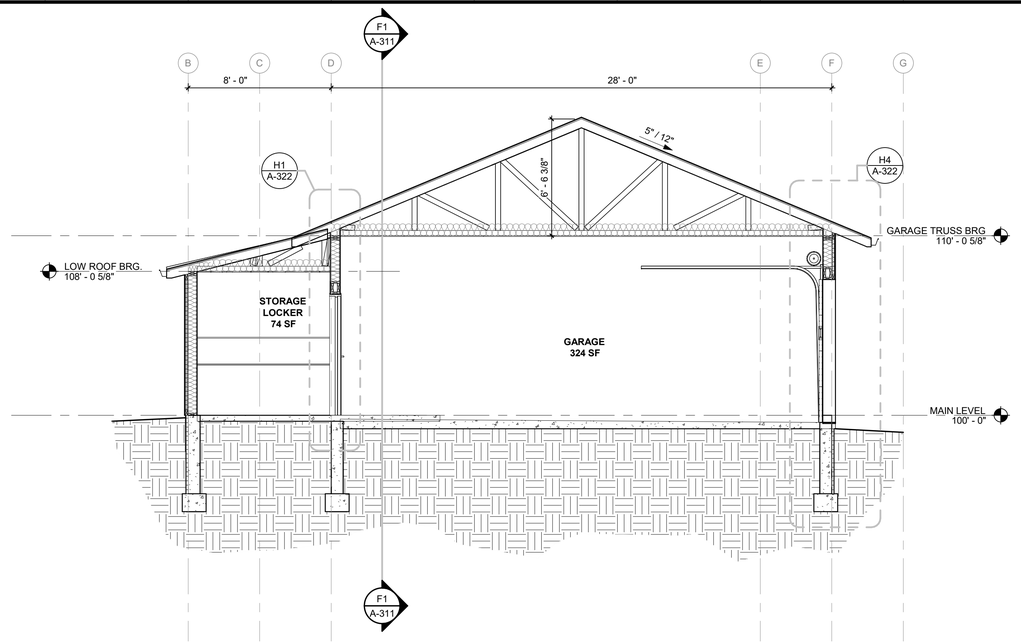
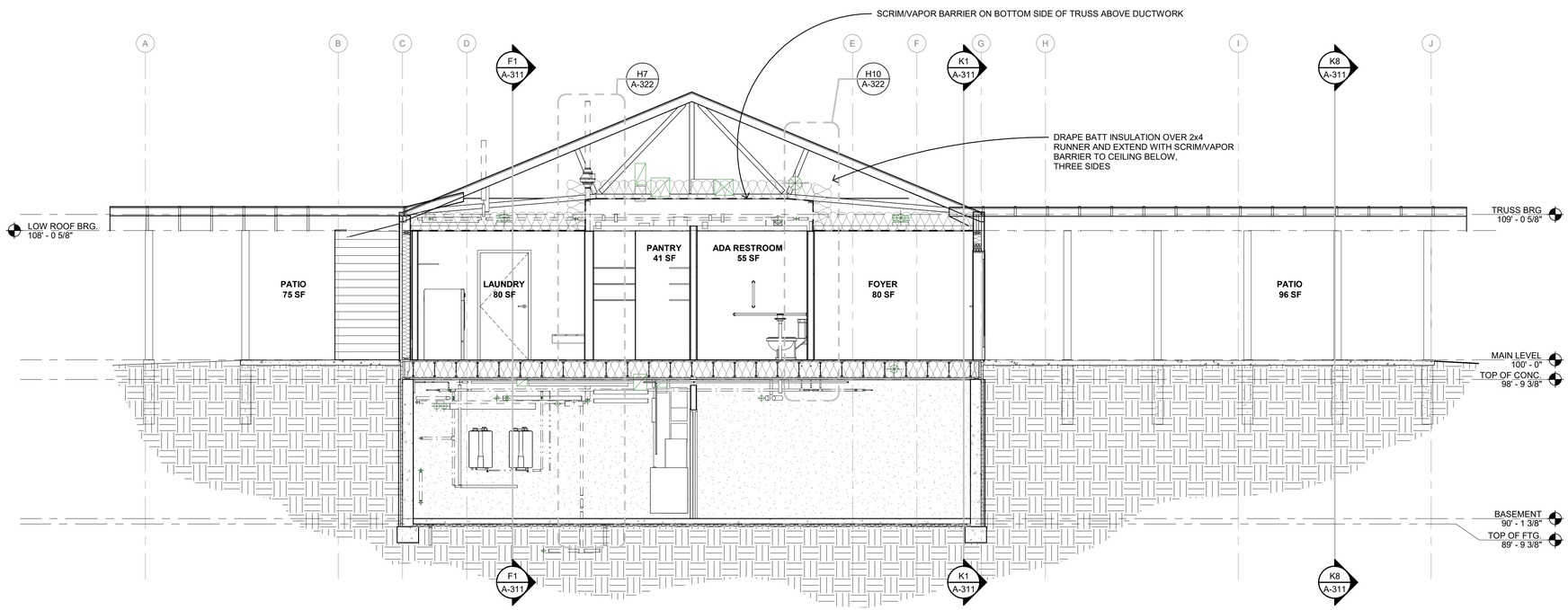
Project Status





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LICENSED ARCHITECT CLINTON E. TAYLOR C-2909 STATE OF WYOMING 06/22/26

NEW RECTORY AT HSCC
HOLY SPIRIT CATHOLIC COMMUNITY
ROCK SPRINGS, WYOMING

APN: 03-HSCC-26 **Date Issued:** 06/22/26
Drawn By: CET **Checked By:** CET
Sheet Title: BUILDING SECTIONS
Sheet Number: A-312

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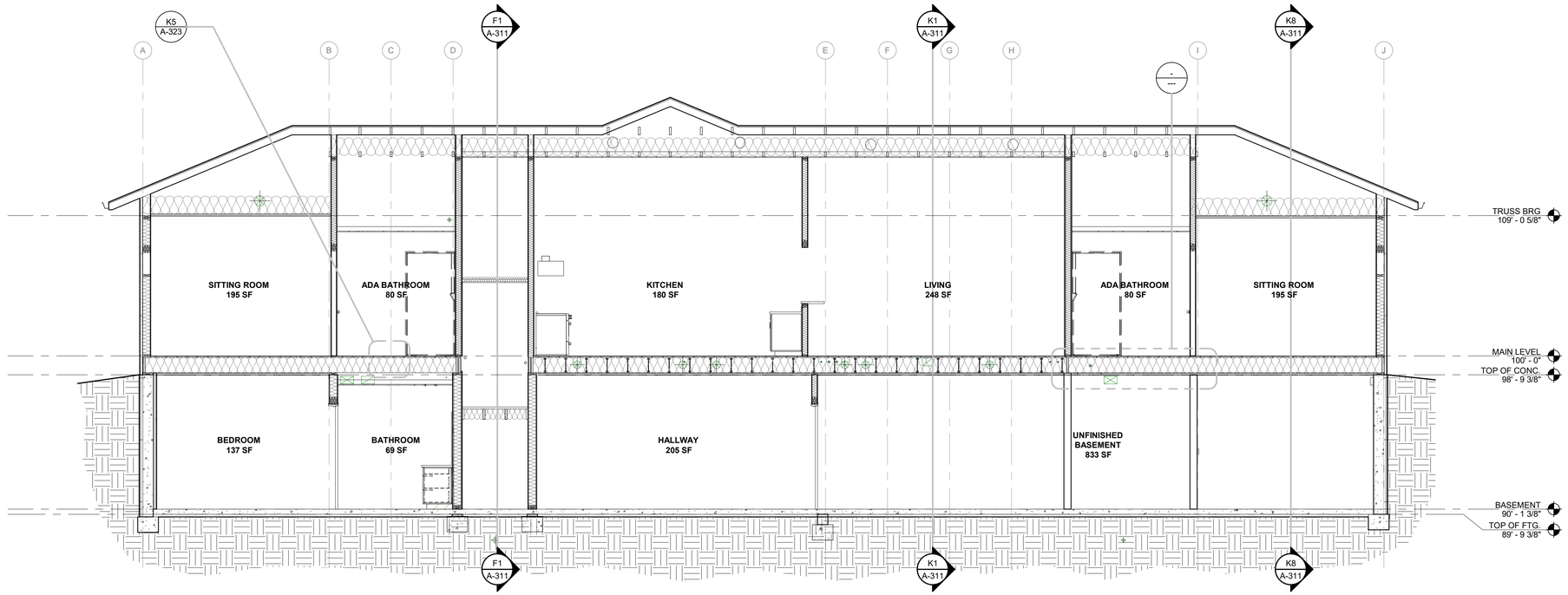

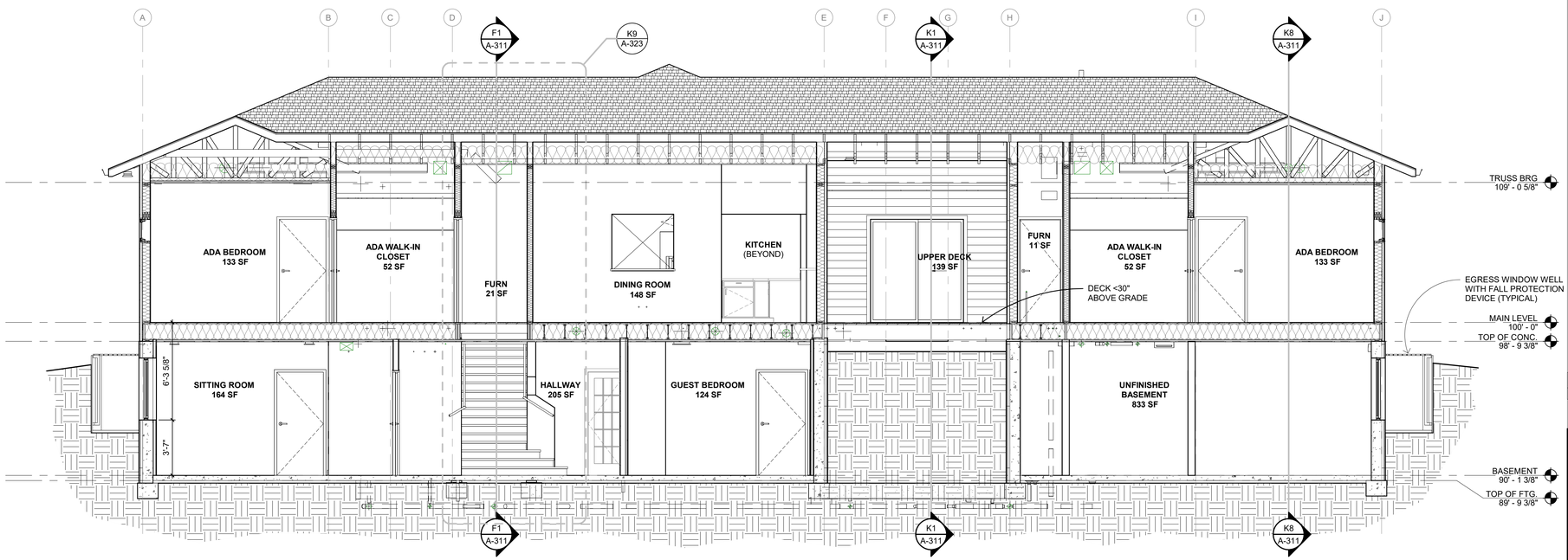

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Sheet Title: BUILDING SECTIONS
Sheet Number: A-313

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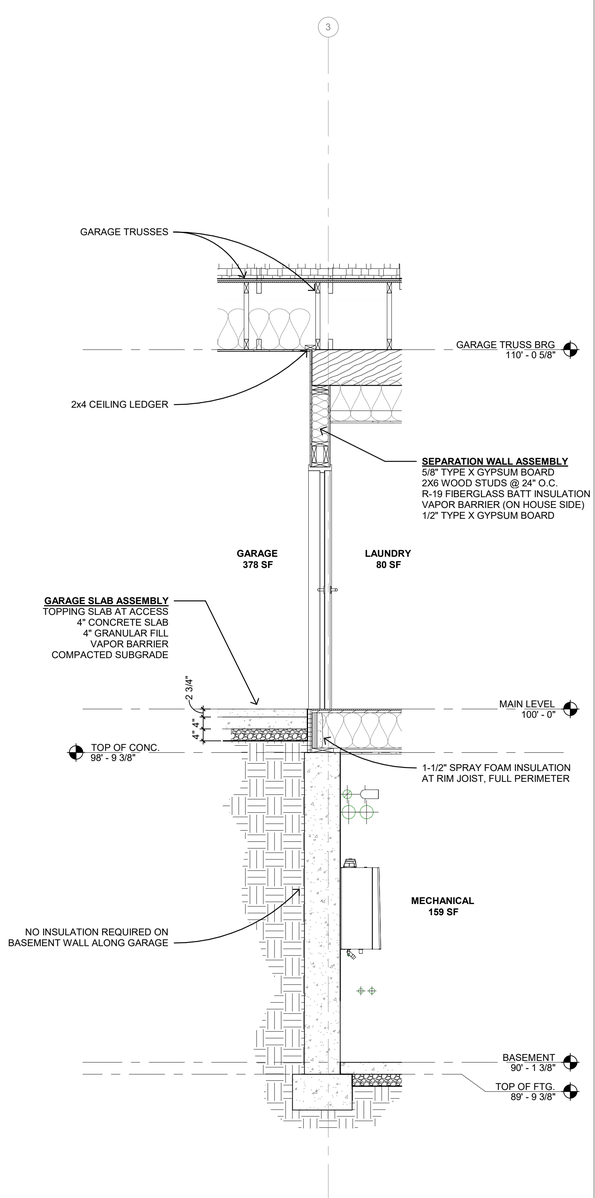

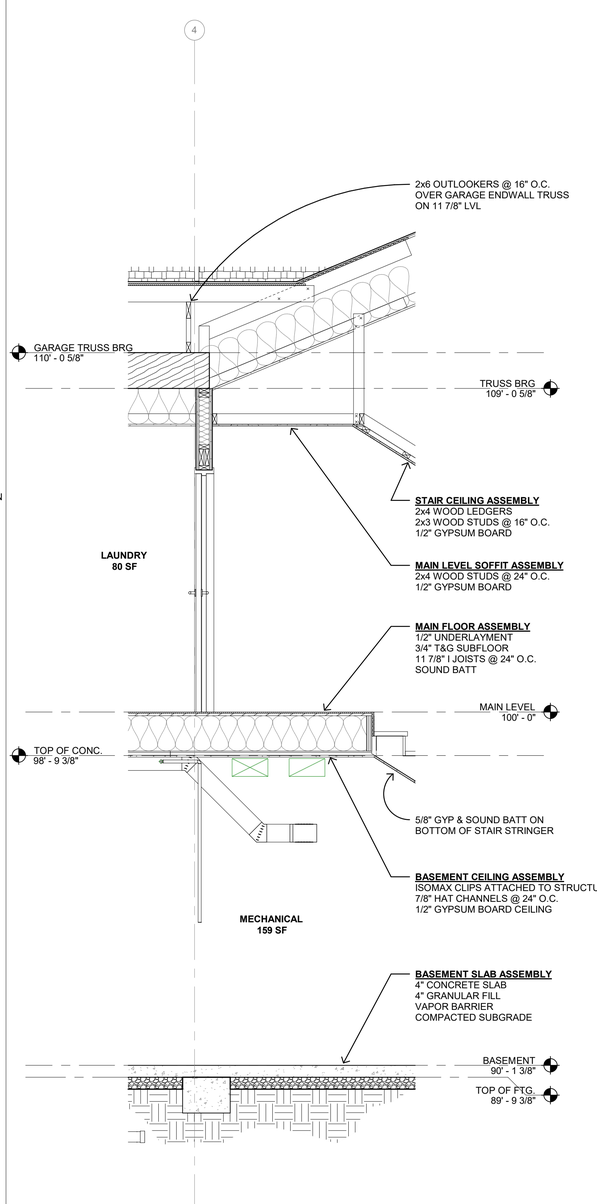

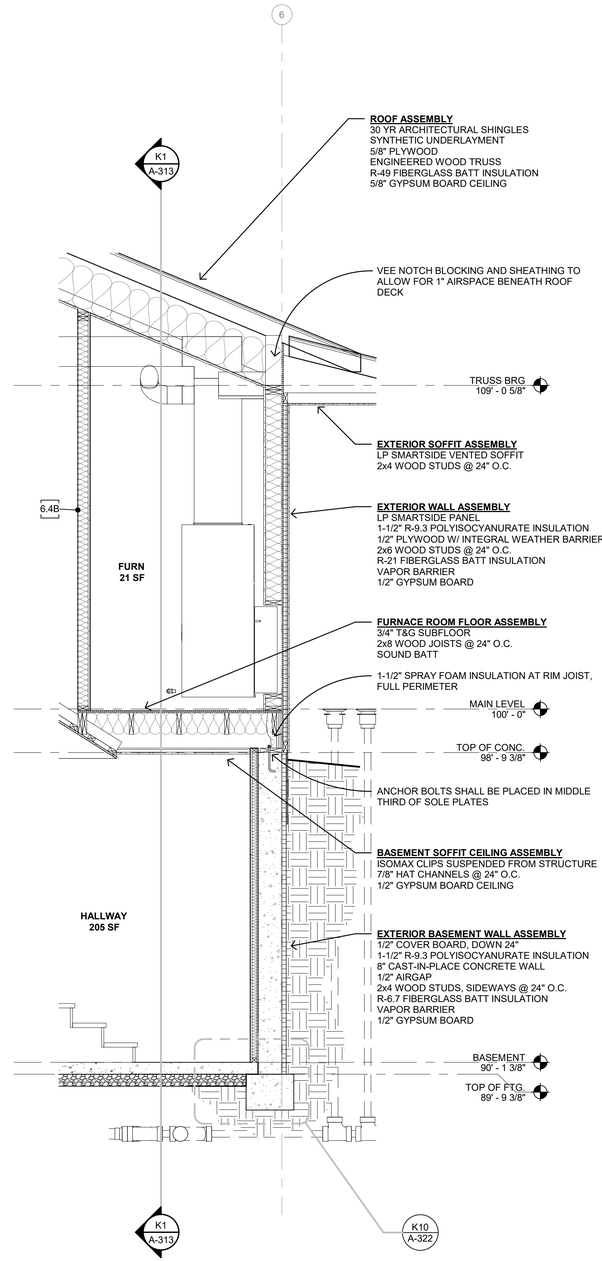

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STATE OF WYOMING
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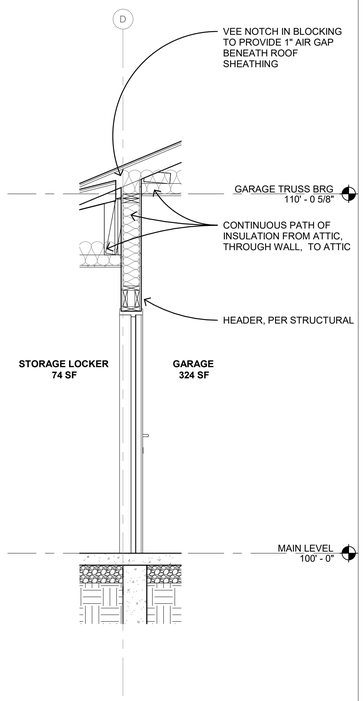
ROCK SPRINGS, WYOMING

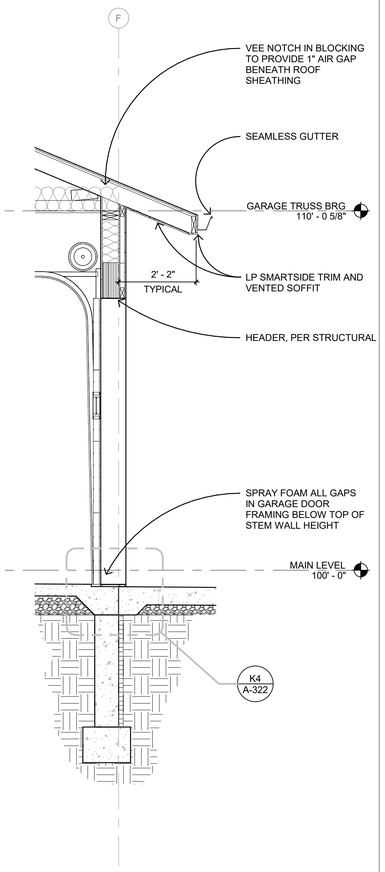
REVISION SCHEDULE

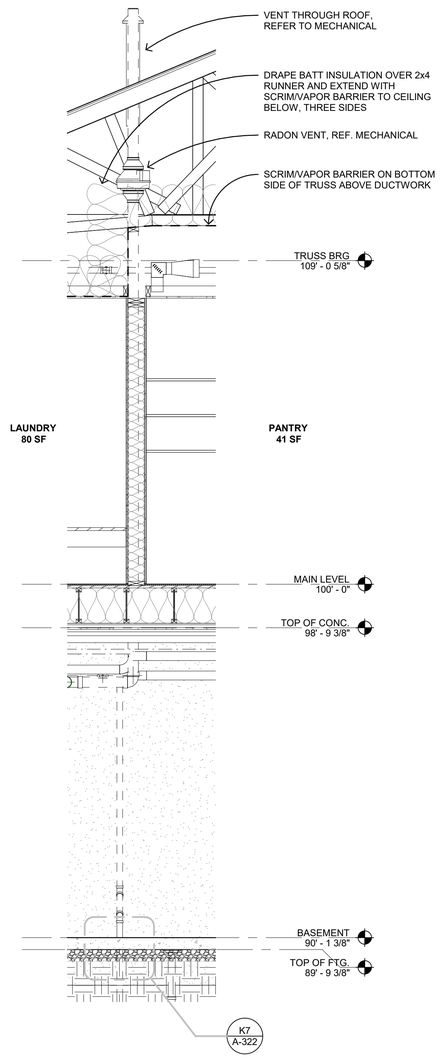
Revision Number	Revision Description	Revision Date

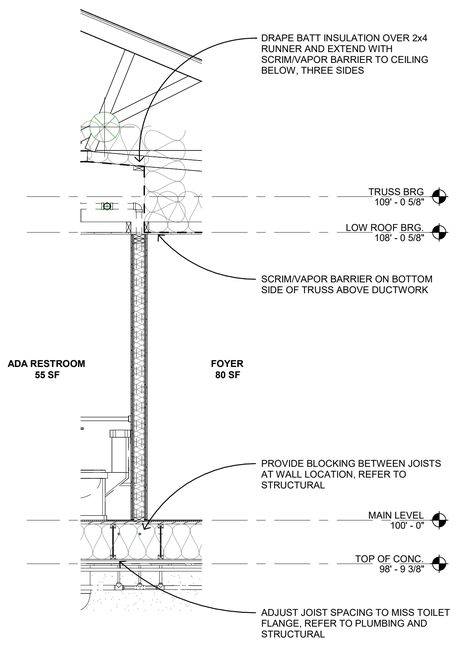
APN: 03-HSCC-26
Date Issued: 06/22/26
Drawn By: CET
Checked By: CET
Sheet Title: WALL SECTIONS
Sheet Number: A-321

6/22/2026 12:15:58 PM
Project Status









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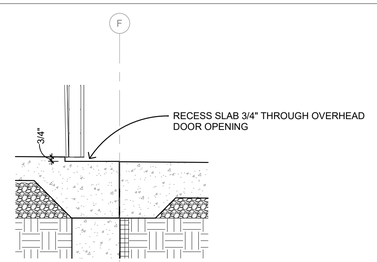

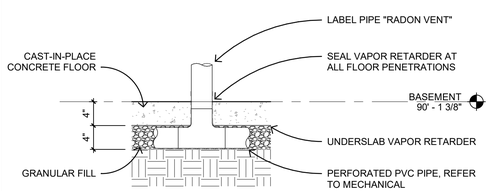

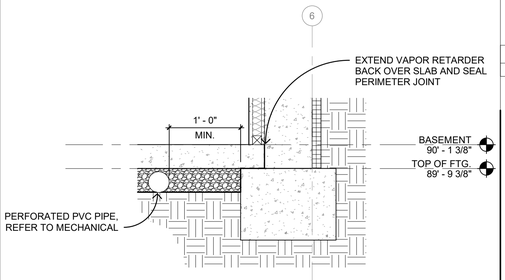

REVISION SCHEDULE

Revision Number	Revision Description	Revision Date

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INDIAN PAINTBRUSH ARCHITECTURE, LLC
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LICENSED ARCHITECT CLINTON E. TAYLOR C-2909 WYOMING STATE OF 06/22/26

NEW RECTORY AT HSCC
HOLY SPIRIT CATHOLIC COMMUNITY
ROCK SPRINGS, WYOMING

APN: 03-HSCC-26
Date Issued: 06/22/26
Drawn By: CET
Checked By: CET
Sheet Title: WALL SECTIONS
Sheet Number: A-322

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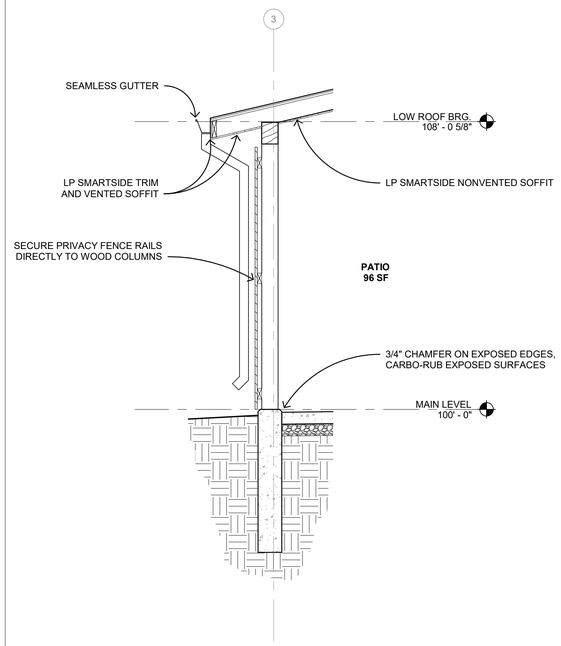
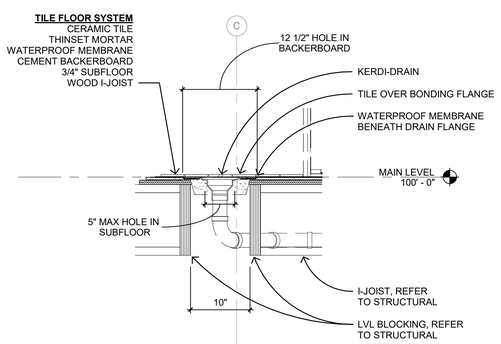
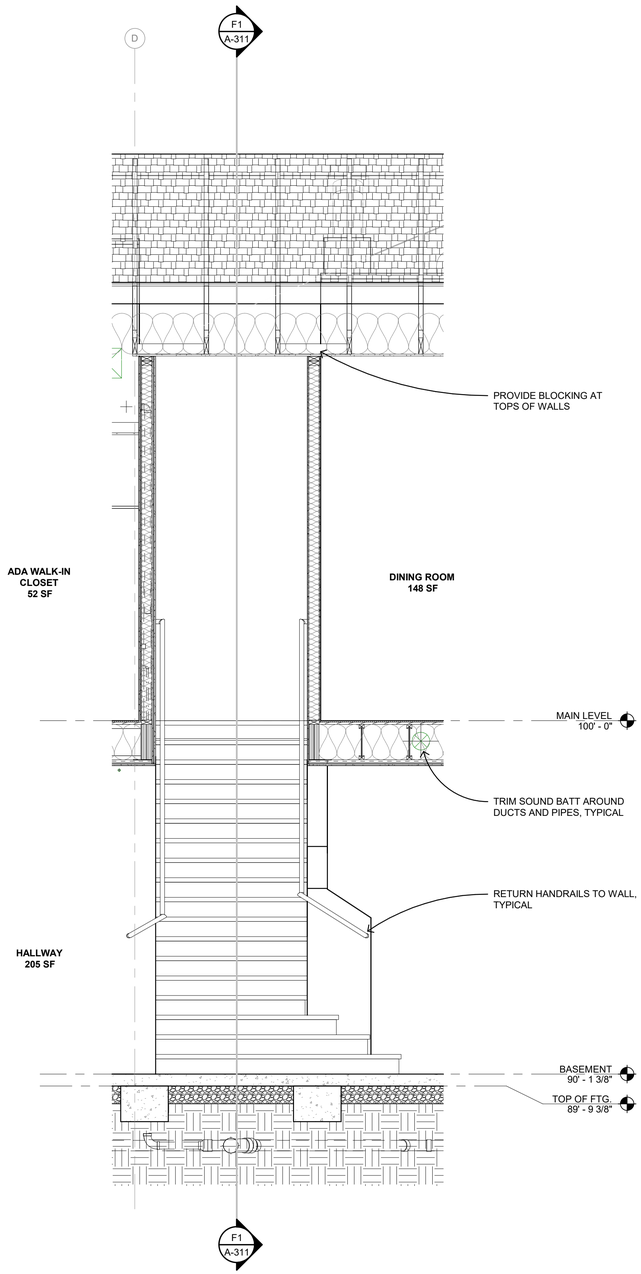
Project Status







GENERAL NOTES:

1. REFER TO STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR ADDITIONAL REQUIREMENTS AND COORDINATION.
2. REFER TO ROOM FINISH PLANS FOR ADDITIONAL INFORMATION REGARDING FINISHES.
3. REFER TO WALL TYPES DETAILS FOR ADDITIONAL REQUIREMENTS.
4. REFER TO CEILING TYPES DETAILS FOR ADDITIONAL REQUIREMENTS.
5. WINDOWS SHALL BE FRAMED WITH THE TOP OF THE EXTERIOR PORTION OF THE FRAME AT THE SAME HEIGHT AS THE TOP OF THE FRAME OF THE EXTERIOR DOORS, UNLESS NOTED OR SHOWN OTHERWISE.
6. SEAL ALL JOINTS IN THE BUILDING EXTERIOR TO PROVIDE A WEATHER TIGHT CONDITION.
7. SEALANT COLOR SHALL BE SELECTED BY THE ARCHITECT. MORE THAN ONE SEALANT COLORS MAY BE REQUIRED.
8. NOTE: TRUSS BEARING HEIGHTS ARE BASED ON THE TOP OF THE 3/4" SUBFLOOR BEING AT ELEVATION 99'-11 1/2". MAIN LEVEL 100'-0" IS THE TOP OF THE 1/2" UNDERLAYMENT, WHERE REQUIRED BY FLOORING MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.
9. ATTACHED MEASURING DEVICE MUST BE INSTALL WHERE BLOWN IN INSULATION IS USED.

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LICENSED ARCHITECT CLINTON E TAYLOR C-2909 STATE OF WYOMING 06/22/26

NEW RECTORY AT HSCC
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ROCK SPRINGS, WYOMING

APN: 03-HSCC-26
Date Issued: 06/22/26
Drawn By: CET
Checked By: CET
Sheet Title: WALL SECTIONS
Sheet Number: A-323

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Project Status

MECHANICAL GENERAL NOTES & SPECIFICATIONS:

1. ALL WORK SHALL BE IN ACCORDANCE WITH APPLICABLE LOCAL AND STATE CODES INCLUDING BUT NOT LIMITED TO THE 2024 INTERNATIONAL BUILDING, FIRE, MECHANICAL, PLUMBING, AND FUEL GAS CODES (IBC, IFC, IMC, IPC, IFGC) WITH LOCAL AMENDMENTS.
2. CONTRACTOR AND SUB-CONTRACTORS SHALL PROVIDE ALL LABOR, MATERIAL AND EQUIPMENT TO COMPLETE ALL WORK SHOWN ON PLANS, CALLED FOR IN SPECIFICATIONS, OR REASONABLY IMPLIED FOR A COMPLETE INSTALLATION.
3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS ON DRAWINGS WITH ACTUAL FIELD CONDITIONS. COORDINATE DRAWINGS WITH ACTUAL FIELD CONDITIONS. COORDINATE WORK LAYOUTS AND LOCATIONS OF OPENINGS THROUGH FLOORS, WALLS, CEILINGS AND ROOFS WITH DRAWINGS OR OTHER REQUIREMENTS. VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO FABRICATION OR CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
4. MECHANICAL DRAWINGS ARE DIAGRAMMATIC AND DO NOT NECESSARILY INDICATE EVERY REQUIRED OFFSET, FITTING, ETC. DO NOT SCALE DRAWINGS, USE DIMENSIONS ONLY. ALL DIMENSIONS/LAYOUTS SHOWN ARE APPROXIMATE, FIELD VERIFY ALL WORK PRIOR TO ORDERING MATERIALS OR INSTALLING WORK.
5. KEEP SITE AND BUILDING ACCESSIBLE AND SAFE TO CONTRACTOR'S PERSONNEL, OWNER'S EMPLOYEES AND PUBLIC AT ALL TIMES. CONTRACTOR SHALL ENSURE SAFETY OF PERSONNEL, OWNER AND PUBLIC DURING ALL WORK AND COMPLY WITH ALL APPLICABLE REGULATIONS AND ORDINANCES PERTAINING TO SAFETY OF PERSONS AND PROPERTY.
6. INSTALL ALL WORK IN STRICT ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS, ANCHORING ALL COMPONENTS PLUMB, LEVEL, SQUARE, AND FIRMLY INTO PLACE IN FIRST CLASS MANNER AND WORKMANSHIP ACCORDING TO STANDARD CONSTRUCTION PRINCIPLES & AS APPROVED BY ENGINEER.
7. THROUGHOUT THE WORK, CAULK AND SEAL ALL JOINTS AS REQUIRED TO PROVIDE A POSITIVE BARRIER AGAINST THE PASSAGE OF AIR AND MOISTURE.
8. REPLACE OR REPAIR ANY DAMAGED SURFACES, FILL AND PATCH HOLES, ETC., TO MATCH ADJACENT SURFACES AFTER ALL ALTERATIONS AND OTHER WORK IS COMPLETED, TO SATISFACTION OF ARCHITECT/ENGINEER.
9. COORDINATE WITH THE G.C. TO PROVIDE ACCESS PANELS AS REQUIRED TO ACCESS VALVES, DAMPERS, CONTROL DEVICES, ETC. REQUIRED FOR THE PROPER MAINTENANCE OF THE MECHANICAL SYSTEMS.
10. COORDINATE WITH G.C. TO PATCH ROOFING, ROOF DECK, AND FLASHINGS AS REQ'D WITH NEW MATERIALS AND FLASHINGS FOR ALL NEW ROOF PENETRATIONS.
11. DO NOT RUN DUCTWORK/PIPES ABOVE ELECTRICAL PANELS OR EQUIPMENT. COORDINATE WITH THE E.C. FOR LOCATIONS PRIOR TO THE START OF WORK.
12. THERMOSTATS, TEMPERATURE SENSORS, SWITCHES, OR OTHER CONTROL DEVICES SHALL BE MOUNTED AT 48" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE.
13. PROVIDE PLASTIC LAMINATED EQUIPMENT LABELS FOR THE NEW EQUIPMENT. LABEL ALL THE THERMOSTATS, SWITCHES, MOTOR STARTERS, ETC. INDICATING WHICH SYSTEM THEY CONTROL.
14. ALL DUCTWORK SHALL BE 26 GAUGE GALVANIZED SHEET METAL MINIMUM. WORK SHALL BE IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS, LATEST EDITION. ALL DUCTWORK SHALL BE 2 IN WG PRESSURE CLASS MINIMUM.
15. ALL DUCTWORK JOINTS, LONGITUDINAL AND TRANSVERSE SEAMS, SHALL BE SEALED WITH WELDS, GASKETS, OR MASTIC ADHESIVE. MASTICS SHALL BE LISTED IN ACCORDANCE WITH UL 181A.
16. FLEXIBLE DUCTWORK SHALL BE INSULATED (R-6.0) AND SHALL BE TESTED IN ACCORDANCE WITH UL 181. FLEXIBLE DUCTWORK SHALL NOT EXCEED 6'-0" IN LENGTH. PROVIDE WRAPPED RIGID ROUND DUCTWORK FOR TAKEOFFS IN EXCESS OF 6'-0". FLEXIBLE DUCTWORK IS ALLOWED ONLY FOR SUPPLY DIFFUSERS, NOT RETURN OR EXHAUST.
17. DUCTWORK DIMENSIONS LISTED ON THE DRAWINGS ARE CLEAR, INSIDE DIMENSIONS. WHERE DUCT LINER IS SPECIFIED, INCREASE THE OUTSIDE SHEET METAL DIMENSIONS TO PROVIDE THE CLEAR INSIDE DIMENSIONS SPECIFIED.
18. ALL BRANCH DUCT TAKEOFFS SHALL BE 45° HIGH-EFF. TYPE.
19. ROUND MANUAL VOLUME DAMPERS SHALL HAVE MIN. 22 GA. GALVANIZED STEEL FRAME AND BLADE, MINIMUM 1/4" STEEL AXLE, AND LOCKING INDICATING QUADRANT WITH STANDOFF AS REQUIRED TO ACCOMMODATE INSULATION. ACCEPTABLE MANUFACTURERS INCLUDE GREENHECK, POTTORFF, AND RUSKIN.
20. RECTANGULAR SINGLE BLADE AND MULTI-BLADE VOLUME DAMPERS SHALL HAVE MIN. 20 GA. GALVANIZED STEEL FRAME AND BLADE, MIN. 1/2" STEEL AXLE, AND LOCKING INDICATING QUADRANT WITH STANDOFF AS REQUIRED TO ACCOMMODATE INSULATION. ACCEPTABLE MANUFACTURERS INCLUDE GREENHECK, POTTORFF, AND RUSKIN.
21. DUCTWORK INSULATION SHALL BE INSTALLED BY A QUALIFIED INSULATION CONTRACTOR WITH A MINIMUM OF 3-YEARS DOCUMENTED EXPERIENCE. INSULATION WORK SHALL BE COMPLETE WITH ALL EDGES SEALED, PER INDUSTRY STANDARDS, AND TO THE SATISFACTION OF THE ENGINEER.
22. DUCT LINER INSULATION FOR RECTANGULAR SUPPLY AND RETURN DUCTWORK (FOR THE SYSTEMS SPECIFIED BELOW) SHALL BE 1/2" THICK (R-2.2), FIBERGLASS MAT WITH REINFORCED ACRYLIC COATING ON AIRSTREAM SURFACE. JOHNS MANVILLE LINACOUSTIC RC OR EQUAL BY KNAUF OR OWENS CORNING.
    A. FUR-2 & FUR-3: MAIN SUPPLY/RETURN DUCTS ONLY.
23. ALL SUPPLY, RETURN, AND OUTSIDE AIR DUCTS LOCATED IN AN UNCONDITIONED SPACE (ATTIC OR UNHEATED GARAGE) SHALL BE INSULATED WITH 2" THICK (R-6), 1.00 PCF DUCT WRAP FIBERGLASS INSULATION WITH FSK VAPOR BARRIER FACING. JOHNS MANVILLE MICROLITE XG OR EQUAL BY KNAUF OR OWENS CORNING.
24. PROVIDE FLEXIBLE DUCT CONNECTIONS TO THE SUPPLY AND RETURN OF ALL MOTOR DRIVEN EQUIPMENT.
25. ELBOWS SHALL HAVE A MINIMUM RADIUS OF 1-1/2 TIMES CENTERLINE DUCT WIDTH. WHERE RECTANGULAR ELBOWS ARE USED, PROVIDE TURNING VANES.
26. PROVIDE DUCT TRANSITIONS AS REQUIRED TO CONNECT THE DUCTS TO THE EQUIPMENT CONNECTIONS. INCREASE DUCT SIZES GRADUALLY, NOT EXCEEDING 15° DIVERGENCE WHEREVER POSSIBLE; MAXIMUM 30° DIVERGENCE UPSTREAM OF EQUIPMENT AND 45° CONVERGENCE DOWNSTREAM.
27. HIGH EFFICIENCY GAS FURNACE FLUE AND COMBUSTION AIR PIPES SHALL BE SOLID CORE PVC, ASTM D1785 WITH ASTM D2466 PVC FITTINGS. JOINTS SHALL BE MADE WITH ASTM F656 PRIMER AND ASTM D2564 PVC SOLVENT CEMENT. VERIFY PIPE MATERIAL WITH THE EQUIPMENT MANUFACTURER PRIOR PURCHASING MATERIALS. INSTALL PIPES IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
28. WHERE DUCTS AND/OR PIPES PENETRATE A FIRE RATED ASSEMBLY PACK THE VOID WITH BACKING MATERIAL AND SEAL WITH UL LISTED FIRE CAULK TO MEET THE FIRE RATING OF ASSEMBLY PENETRATED. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS AND TYPES OF FIRE RATED ASSEMBLIES.
29. CONDENSATE DRAINS AND OVERFLOWS SHALL BE PVC.
30. REFRIGERANT PIPING BETWEEN OUTDOOR AND INDOOR UNITS SHALL BE ANNEALED, COMMERCIAL REFRIGERATION GRADE COPPER LINESETS, ASTM B280 OR ASTM B1003, WITH SUCTION LINE INSULATED. PROVIDE IN STANDARD LENGTHS FOR INSTALLATION WITHOUT JOINTS EXCEPT AT EQUIPMENT CONNECTIONS. LEAK TEST ALL REFRIGERANT PIPING IN ACCORDANCE WITH IMC SECTION 1110.
31. ALL AIR SYSTEMS SHALL BE BALANCED TO THE QUANTITIES SHOWN. THE BALANCING FIRM SHALL EITHER BE AABC OR NEBB CERTIFIED AND SHALL SUBMIT A BALANCE REPORT TO THE ENGINEER FOR REVIEW.
    A. FURNACES / PTACS: TOTAL SUPPLY AIR FLOW AND OUTSIDE AIR FLOW ONLY. BALANCING NOT REQUIRED FOR BRANCH DUCTS.
    B. EXHAUST FANS: TOTAL EXHAUST AIR FLOW.
32. THE MECHANICAL CONTRACTOR SHALL PROVIDE PRODUCT DATA FOR ALL THE MECHANICAL EQUIPMENT SCHEDULED, BALANCING DAMPERS, THERMOSTATS AND/OR CONTROLS, DAMPERS, AND DUCT INSULATION. SUBMITTALS SHALL BE IN ELECTRONIC PDF FORMAT AND SENT VIA EMAIL TO THE ENGINEER. IF THE CONTRACTOR WANTS TO USE A MANUFACTURER NOT LISTED, THEY SHALL PROVIDE DOCUMENTATION TO THE ENGINEER FOR APPROVAL. ALL EQUIPMENT SUBMITTALS SHALL BE REVIEWED BY THE ENGINEER PRIOR TO THE START OF WORK.
33. THE CONTRACTOR SHALL PROVIDE THE OWNER WITH (1) COPY OF ALL OPERATIONAL AND MAINTENANCE (O&M) MANUALS FOR EACH PIECE OF MECHANICAL EQUIPMENT. THE MANUAL SHALL INCLUDE: THE CONTRACTOR'S CONTACT INFORMATION, THE MANUFACTURER'S PUBLISHED O&M INSTRUCTIONS, THE APPROVED SUBMITTAL DRAWINGS, AND THE FINAL APPROVED TEST & BALANCE REPORT. COMBINE ALL THE MANUALS IN A 3-RING BINDER INDEXED FOR EACH PIECE OF EQUIPMENT. ALSO PROVIDE THE OWNER WITH THE ENTIRE O&M MANUAL IN PDF FORMAT.
34. THE CONTRACTOR SHALL PROVIDE THE OWNER WITH (1) FULL SIZE SET OF THE AS-BUILT MECHANICAL DRAWINGS WHICH SHALL SHOW THE ACTUAL LOCATIONS OF DUCTWORK, DAMPERS, GRDs, OR ANY OTHER DEVIATIONS FROM THE DESIGN DRAWINGS.
35. THE CONTRACTOR SHALL PROVIDE OWNER TRAINING ON THE OPERATION AND MAINTENANCE OF THE MECHANICAL EQUIPMENT INCLUDING CONTROLS.
36. PROVIDE NEW FILTERS IN THE EQUIPMENT AT THE END OF THE PROJECT.

CARBON MONOXIDE (CO) DETECTION NOTES:

1. CARBON MONOXIDE (CO) DETECTION AND/OR ALARMS SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2024 INTERNATIONAL BUILDING CODE (IBC) SECTION 915. REFER TO THE ELECTRICAL DRAWINGS FOR CO DETECTORS.
2. THE MECHANICAL CONTRACTOR SHALL ASSIST THE ELECTRICAL AND/OR FIRE ALARM CONTRACTOR IN DETERMINING THE LOCATIONS IN WHICH CO DETECTORS AND/OR ALARMS ARE REQUIRED DUE TO THE PRESENCE OF CO-PRODUCING MECHANICAL EQUIPMENT.

SEQUENCE OF OPERATION (PTAC UNIT)

THE HVAC EQUIPMENT (PTAC-1 & PTAC-2) SHALL BE CONTROLLED BY A HONEYWELL T6 PRO SMART THERMOSTAT, MODEL#TH6320WF2003, 24V, 7-DAY PROGRAMMABLE WITH 2-STAGE COOLING AND 2-STAGE HEATING, AUTOMATIC CHANGE-OVER. THE THERMOSTAT SHALL HAVE VENTILATION CONTROL CAPABILITY.

THE CONTRACTOR SHALL COORDINATE WITH THE OWNER TO SET UP THE OCCUPIED/UNOCCUPIED SCHEDULE. THE CONTRACTOR SHALL ALSO PROVIDE TRAINING FOR THE OWNER ON HOW TO MODIFY THE CONTROL SET POINTS AND SCHEDULE.

TEMPERATURE CONTROL:
- THE SUPPLY FAN SHALL CYCLE AS REQUIRED TO MAINTAIN THE HEATING AND COOLING SET POINTS.
- ON A DROP IN ROOM TEMPERATURE BELOW THE HEATING SET POINT, THE GAS HEATING SHALL CYCLE AS REQUIRED TO MAINTAIN THE HEATING SET POINT.
- ON A RISE IN ROOM TEMPERATURE ABOVE THE COOLING SET POINT, THE DX COOLING SHALL CYCLE AS REQUIRED TO MAINTAIN THE COOLING SET POINT.
- TEMPERATURE SET POINTS:
    1. OCCUPIED: COOLING SET POINT = 75° F (ADJ.), HEATING SET POINT = 70° F (ADJ.).
    2. UNOCCUPIED: COOLING SET POINT = 90° F (ADJ.), HEATING SET POINT = 55° F (ADJ.).

VENTILATION CONTROL:
- THE TAB CONTRACTOR SHALL BALANCE THE OUTSIDE AIR MANUAL BALANCING DAMPER TO PROVIDE THE SPECIFIED OUTDOOR AIR CFM WHEN THE SUPPLY FAN IS ON. REFER TO THE MECHANICAL EQUIPMENT SCHEDULES FOR THE MINIMUM OUTDOOR AIRFLOW RATE.
- THE THERMOSTAT SHALL BE CONFIGURED FOR PASSIVE VENTILATION CONTROL (ISU 1000). THE THERMOSTAT SHALL TURN ON THE SUPPLY FAN AS REQUIRED TO PROVIDE THE SPECIFIED VENTILATION.
- THE VENTILATION PERCENT ON TIME SHALL BE SET TO 50% SO THAT THE SUPPLY FAN WILL BE ON FOR NOT LESS THAN 30 MIN EVERY HOUR.

SEQUENCE OF OPERATION (GAS FURNACE)

THE GAS-FIRED FURNACE SHALL BE CONTROLLED BY A HONEYWELL T6 PRO SMART THERMOSTAT, MODEL#TH6320WF2003, 24V, 7-DAY PROGRAMMABLE WITH 2-STAGE COOLING AND 2-STAGE HEATING, AUTOMATIC CHANGE-OVER. THE THERMOSTAT SHALL HAVE VENTILATION CONTROL CAPABILITY.

THE CONTRACTOR SHALL COORDINATE WITH THE OWNER TO SET UP THE OCCUPIED/UNOCCUPIED SCHEDULE. THE CONTRACTOR SHALL ALSO PROVIDE TRAINING FOR THE OWNER ON HOW TO MODIFY THE CONTROL SET POINTS AND SCHEDULE.

TEMPERATURE CONTROL:
- THE SUPPLY FAN SHALL CYCLE AS REQUIRED TO MAINTAIN THE HEATING AND COOLING SET POINTS.
- ON A DROP IN ROOM TEMPERATURE BELOW THE HEATING SET POINT, THE GAS HEATING SHALL CYCLE AS REQUIRED TO MAINTAIN THE HEATING SET POINT.
- ON A RISE IN ROOM TEMPERATURE ABOVE THE COOLING SET POINT, THE DX COOLING SHALL CYCLE AS REQUIRED TO MAINTAIN THE COOLING SET POINT.
- TEMPERATURE SET POINTS:
    1. OCCUPIED: COOLING SET POINT = 75° F (ADJ.), HEATING SET POINT = 70° F (ADJ.).
    2. UNOCCUPIED: COOLING SET POINT = 90° F (ADJ.), HEATING SET POINT = 55° F (ADJ.).

VENTILATION CONTROL:
- THE TAB CONTRACTOR SHALL BALANCE THE OUTSIDE AIR MANUAL BALANCING DAMPER TO PROVIDE THE SPECIFIED OUTDOOR AIR CFM WHEN THE SUPPLY FAN IS ON. REFER TO THE MECHANICAL EQUIPMENT SCHEDULES FOR THE MINIMUM OUTDOOR AIRFLOW RATE.
- THE THERMOSTAT SHALL BE CONFIGURED FOR PASSIVE VENTILATION CONTROL (ISU 1000). THE THERMOSTAT SHALL TURN ON THE SUPPLY FAN AS REQUIRED TO PROVIDE THE SPECIFIED VENTILATION.
- THE VENTILATION PERCENT ON TIME SHALL BE SET TO 50% SO THAT THE SUPPLY FAN WILL BE ON FOR NOT LESS THAN 30 MIN EVERY HOUR.

SAFETY:
- THE REFRIGERANT DETECTION SYSTEM (RDS) PROVIDED WITH THE INDOOR DX COIL SHALL BE WIRED TO THE FURNACE, THERMOSTAT, AND OUTDOOR UNIT IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- IF THE RDS DETECTS REFRIGERANT, THEN THE FOLLOWING LEAK MITIGATION ACTIONS SHALL OCCUR AUTOMATICALLY:
    1. THE SUPPLY FAN SHALL TURN ON TO DILUTE LEAKED REFRIGERANT
    2. THE OUTDOOR UNIT COMPRESSOR SHALL TURN OFF
    3. POTENTIAL IGNITION SOURCES SHALL DE-ENERGIZE (I.E. GAS HEATING SHALL BE LOCKED OUT)

A2L REFRIGERANT CALCULATIONS

SYSTEM	REF.	REF. CHARGE	REF. LEAK DETECT.	EDVC (7-8)	EDVC (7-9)
FUR-1	R-454B	4.44 lb	Yes	62 lb	
FUR-2	R-454B	4.44 lb	Yes	61 lb	
FUR-3	R-454B	4.44 lb	Yes	44 lb	
PTAC-1	R-454B	3.4 lb	No		17 lb
PTAC-2	R-454B	3.4 lb	No		17 lb

NOTES:
1. EFFECTIVE DISPERSAL VOLUME CHARGE (EDVC) CALCULATIONS ARE IN ACCORDANCE WITH ASHRAE 15-2022, SECTION 7.6.1. EQUATION 7-8 APPLIES TO SYSTEMS HAVING REFRIGERANT LEAK DETECTION OR CONTINUOUS AIR CIRCULATION, AND EQUATION 7-9 APPLIES TO ALL OTHER SYSTEMS.

MECHANICAL LEGEND

	NEW DUCTWORK (SHADED)
	DUCT DOWN, DUCT UP
	DUCT RISERS (SUPPLY, RETURN, EXHAUST)
	90° ELBOW W/ TURNING VANES, 45° TAKE-OFF W/ MANUAL BALANCING DAMPER
	REFRIGERANT PIPING (LIQUID/SUCTION)
	PIPE UNION OR FLANGE
	ELBOW DOWN, TEE UP
	TEE DOWN, PIPE CONTINUATION
	REDUCER OR INCREASER
T	THERMOSTAT
SW	SWITCH
M	MOTORIZED DAMPER
	POINT OF CONNECTION

MECHANICAL ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
BLW	BELOW
CD	CEILING DIFFUSER
CU	CONDENSING UNIT
DN	DOWN
(E)	EXISTING
EA	EXHAUST AIR
EC	ELECTRICAL CONTRACTOR
EDH	ELECTRIC DUCT HEATER
EF	EXHAUST FAN
EG	EXHAUST GRILLE
FUR	FURNACE
MAU	MAKE-UP AIR UNIT
MC	MECHANICAL CONTRACTOR
MVD	MANUAL VOLUME DAMPER
(N)	NEW
OA	OUTSIDE AIR
POC	POINT OF CONNECTION
PTAC	PACKAGED TERMINAL AIR CONDITIONER
RA	RETURN AIR
RG	RETURN GRILLE
SA	SUPPLY AIR
SD	SUPPLY DIFFUSER
TA	TRANSFER AIR
TAB	TEST & BALANCE
TSTAT	THERMOSTAT
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
W/	WITH
W/O	WITHOUT

MECHANICAL SHEET INDEX

REVISION SCHEDULE

Revision Number	Revision Description	Revision Date
1	BID DRAWINGS	04/22/2026

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NEW RECTORY AT HOLY SPIRIT CATHOLIC COMMUNITY
ROCK SPRINGS, WYOMING

APN: 03-HSCC-26 **Date Issued:** 2026.01.21
Drawn By: JAN **Checked By:** JHM
Sheet Title: MECHANICAL NOTES & LEGEND
Sheet Number: M-001

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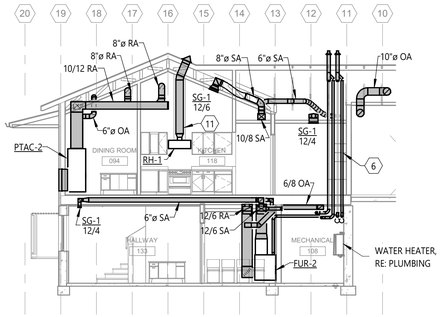
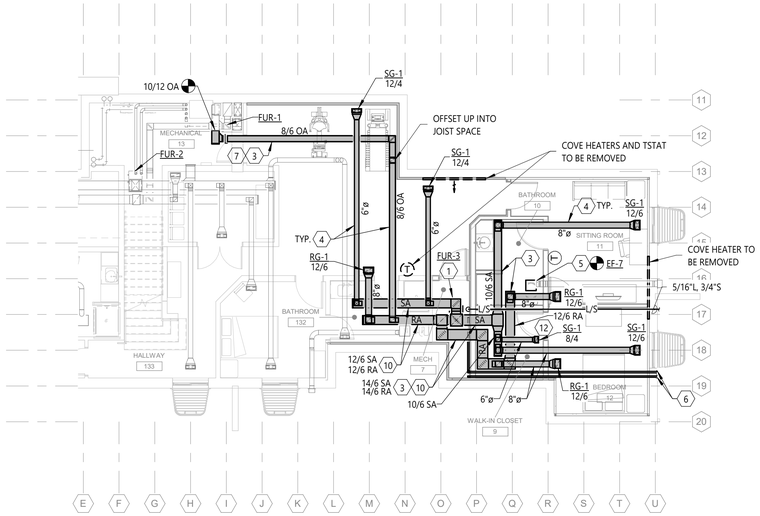
BID DRAWINGS



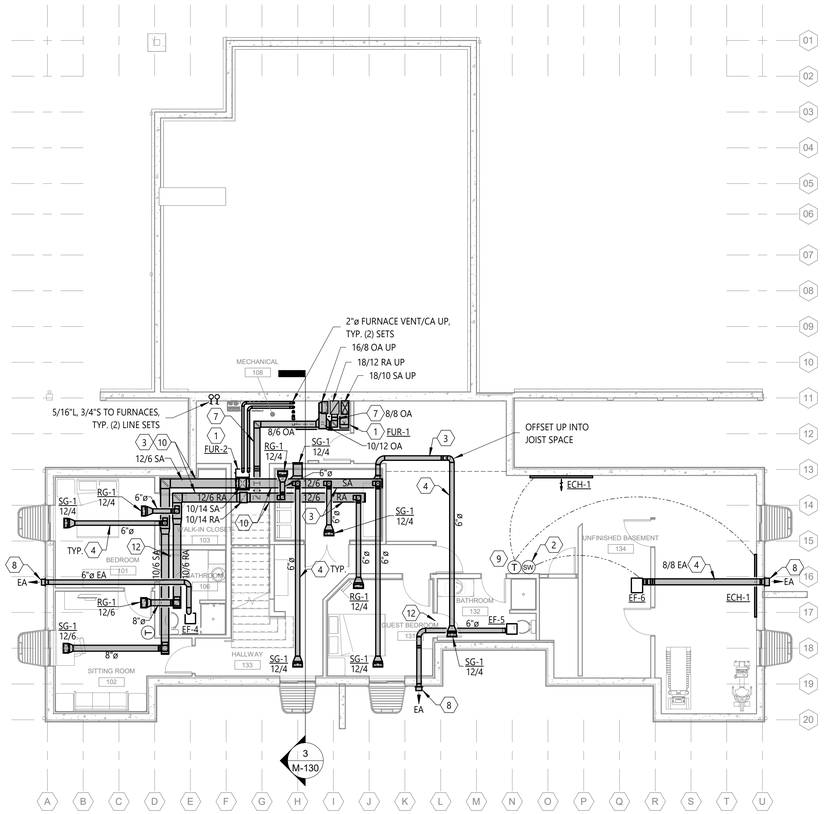
3 MECH SECTION B

1/8" = 1'-0"



2 LOWER LEVEL MECHANICAL PLAN - FUTURE

1/8" = 1'-0"



1 LOWER LEVEL MECHANICAL PLAN

1/8" = 1'-0"

FLAG NOTES

1 SEE "GAS-FIRED FURNACE DETAIL", SHEET M-501.

2 EXHAUST FAN TO BE CONTROLLED BY A WALL SWITCH LOCATED NEXT TO THE LIGHT SWITCH. COORDINATE WITH THE E.C. TO PROVIDE AND WIRE THE SWITCH.

3 INSTALL DUCT AS HIGH AS POSSIBLE BELOW FLOOR JOISTS.

4 INSTALL DUCT BETWEEN FLOOR JOISTS.

5 REPLACE EXISTING EXHAUST FAN WITH NEW IN SAME LOCATION. RECONNECT TO EXISTING EXHAUST DUCTWORK.

6 2" DIA. FURNACE INTAKE & VENT PIPES TO BE ROUTED BETWEEN FLOOR JOISTS TO THE EXTERIOR.

7 OUTSIDE AIR DUCT. PROVIDE MOTORIZED CONTROL DAMPER AND MANUAL BALANCING DAMPER AND BALANCE TO THE OA FLOW RATE INDICATED IN THE MECHANICAL EQUIPMENT SCHEDULE. REFER TO "VENTILATION CONTROL SEQUENCE (DAMPER)", SHEET M-001.

8 PROVIDE HOODED WALL CAP W/ BIRDSCREEN AND BACK DRAFT DAMPER. MAINTAIN REQUIRED CLEARANCES FROM BUILDING OPERABLE OPENINGS AND MECHANICAL AIR INTAKES IN ACCORDANCE WITH IMC SECTION 501.3.1.

9 PROGRAMMABLE 120V THERMOSTAT FOR ELECTRIC COVE HEATERS, SET TO 55Â°F. HONEYWELL MODEL# TH115-A-120S OR PRIOR APPROVED EQUAL. THERMOSTAT PROVIDED BY MC, WIRED BY EC.

10 PROVIDE 1/2" DUCT LINER IN MAIN SUPPLY AND RETURN DUCTS SERVING FUR-2 AND FUR-3 FOR NOISE REDUCTION. INCREASE SHEET METAL DIMENSIONS AS REQUIRED TO MAINTAIN THE CLEAR INSIDE DIMENSTIONS SPECIFIED ON THE PLANS.

11 MOUNT THE RANGE HOOD ABOVE THE STOVE. 10" DIA. EA DUCT UP FROM HOOD. TERMINATE AT THE ROOF WITH A ROOF JACK WITH BACKDRAFT DAMPER AND BIRD SCREEN.

12 COORDINATE W/ G.C. FOR 3/4" DOOR UNDERCUT FOR AIR TRANSFER.

PLAN GENERAL NOTES

A. ALL DUCTWORK SHALL COMPLY WITH THE DUCTWORK DETAILS INCLUDING:
- DUCT ELBOWS DETAIL
- DUCT TRANSITION DETAIL
- DUCT TAKE-OFFS DETAIL

REVISION SCHEDULE

Revision Number	Revision Description	Revision Date
1	BID DRAWINGS	04/22/2026

NOTE:

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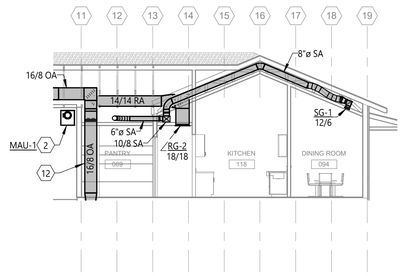
NEW RECTORY AT
HOLY SPIRIT CATHOLIC COMMUNITY
ROCK SPRINGS, WYOMING

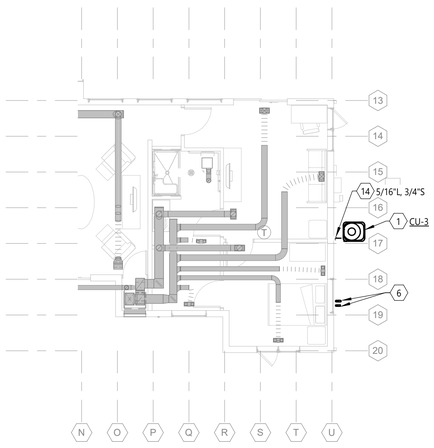
APN: 03-HSCC-26
Date Issued: 2026.01.21
Drawn By: JAN
Checked By: JHM
Sheet Title: LOWER LEVEL MECHANICAL PLAN
Sheet Number: M-130

4/22/2026 1:06:35 PM
BID DRAWINGS



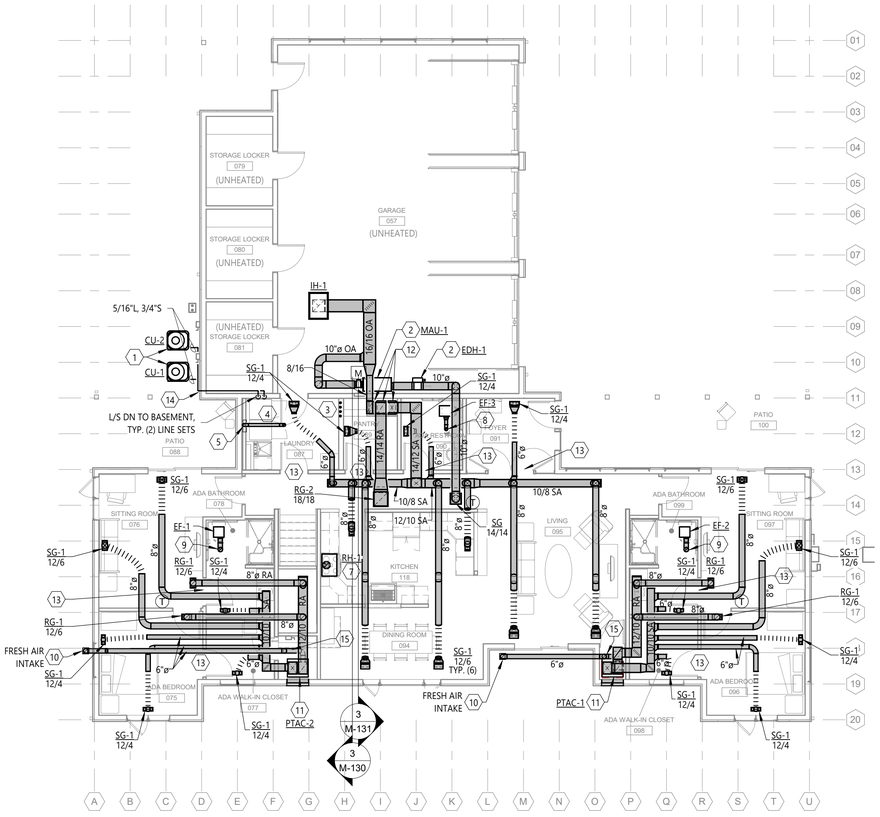
3 MECH SECTION A

1/8" = 1'-0"



2 MAIN LEVEL MECHANICAL PLAN - FUTURE

1/8" = 1'-0"



1 MAIN LEVEL MECHANICAL PLAN

1/8" = 1'-0"

FLAG NOTES

1. MOUNT THE CONDENSING UNIT ON A 4" THICK CONCRETE PAD.
2. INSTALL THE MAKE-UP AIR UNIT, SHUTOFF DAMPER, AND ELECTRIC DUCT HEATER AS HIGH AS POSSIBLE BELOW THE GARAGE CEILING. MAINTAIN ALL REQUIRED CLEARANCES FOR SERVICE AND MAINTENANCE ACCESS.
3. 2" FURNACE INTAKE & VENT PIPES UP TO MANUFACTURER PROVIDED CONCENTRIC TERMINATION. SEE "ROOF CONCENTRIC KIT DETAIL", SHEET M-501.
4. 4" DIA. RIGID ALUMINUM DRYER EXHAUST DUCT. DRYER DUCT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE DRYER MANUFACTURER'S RECOMMENDATIONS AND THE REQUIREMENTS OF IMC SECTION 504. TERMINATE MIN. 3'-0" ABV THE ROOF WITH A RIGID METAL HOODED WALL CAP WITH A BACKDRAFT DAMPER AND WITHOUT A SCREEN. MAINTAIN MIN. 10'-0" CLEARANCE FROM ANY FRESH AIR OR COMBUSTION AIR INTAKE. TOTAL EQUIVALENT LENGTH OF DRYER EXHAUST DUCT SHALL NOT EXCEED 35'.
5. PROVIDE RECESSED ALUMINUM DRYER VENT WALL BOX BEHIND CLOTHES DRYER. DRYERBOX MODEL# 420 OR PRIOR APPROVED EQUAL.
6. TERMINATE FURNACE INTAKE & VENT PIPES AT THE OUTSIDE WALL IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
7. MOUNT THE RANGE HOOD ABOVE THE STOVE. 10" DIA. EA DUCT UP FROM HOOD. TERMINATE AT THE ROOF WITH A ROOF JACK WITH BACKDRAFT DAMPER AND BIRD SCREEN.
8. 4" DIA. EXHAUST DUCT UP. TERMINATE AT THE ROOF WITH A ROOF JACK WITH BACKDRAFT DAMPER AND BIRD SCREEN.
9. 6" DIA. EXHAUST DUCT UP. TERMINATE AT THE ROOF WITH A ROOF JACK WITH BACKDRAFT DAMPER AND BIRD SCREEN.
10. UNDER-EAVE INTAKE GRILLE W/ REMOVABLE LOUVERED CORE, INSECT SCREEN, AND 6"Ã, DUCT CONNECTION. LAMBRO INDUSTRIES #676W-MLS OR APPROVED EQUAL. MAINTAIN MIN. 10'-0" FROM APPLIANCE GAS VENT.
11. SEE "GAS-FIRED PTAC UNIT DETAIL", SHEET M-501.
12. 16/8 OA, 18/12 RA, AND 18/10 SA DUCTS DOWN IN CHASE. PROVIDE OFFSETS AND TRANSITIONS AS REQUIRED.
13. COORDINATE W/ G.C. FOR 3/4" DOOR UNDERCUT FOR AIR TRANSFER.
14. PROVIDE AIREX TITAN OUTLET, MODEL# TGS, TO SEAL THE PIPE PENETRATION INTO THE BUILDING.
15. OUTSIDE AIR DUCT. PROVIDE MANUAL BALANCING DAMPER AND BALANCE TO THE OA FLOW RATE INDICATED IN THE MECHANICAL EQUIPMENT SCHEDULE. REFER TO "VENTILATION CONTROL SEQUENCE (PASSIVE)", SHEET M-001.

PLAN GENERAL NOTES

A. ALL DUCTWORK SHALL COMPLY WITH THE DUCTWORK DETAILS INCLUDING:
- DUCT ELBOWS DETAIL
- DUCT TRANSITION DETAIL
- DUCT TAKE-OFFS DETAIL

REVISION SCHEDULE

Revision Number	Revision Description	Revision Date
1	BID DRAWINGS	04/22/2026

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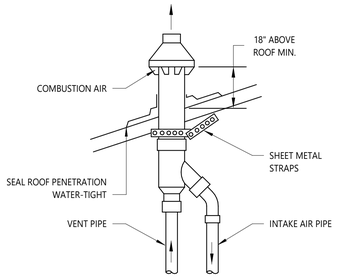
HOLY SPIRIT CATHOLIC COMMUNITY
ROCK SPRINGS, WYOMING

APN: 03-HSCC-26
Date Issued: 2026.01.21
Drawn By: JAN
Checked By: JHM
Sheet Title: MAIN LEVEL MECHANICAL PLAN
Sheet Number: M-131

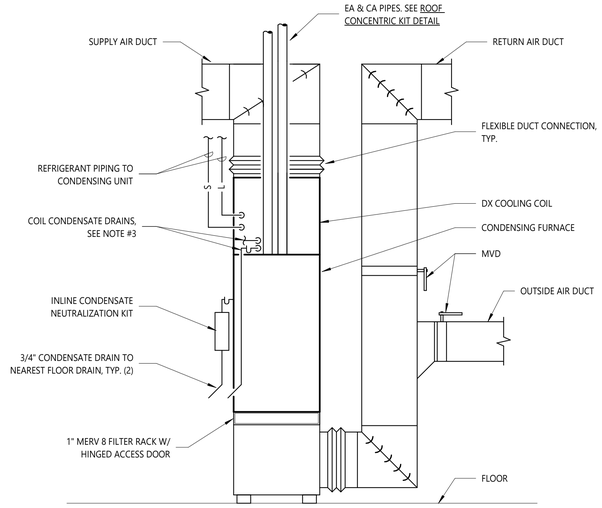
4/22/2026 1:06:40 PM
BID DRAWINGS



NOTES:
1. SEE PLANS FOR VENT AND INTAKE AIR PIPE SIZES.
2. INSTALL PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

CONCENTRIC KIT DETAIL - ROOF

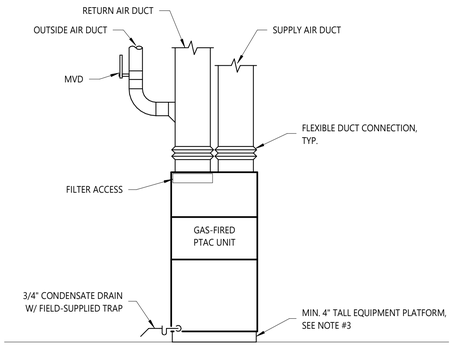
SCALE: NONE



NOTES:
1. SEE PLANS FOR PIPE AND DUCT SIZES.
2. DUCT ROUTING MAY DIFFER ON THE PLANS FROM WHAT IS SHOWN. TRANSITION SUPPLY AND RETURN DUCTS TO THE FURNACE CONNECTION SIZES.
3. PROVIDE A DX COIL CONDENSATE TRAP AS RECOMMENDED BY THE MANUFACTURER. PROVIDE AUXILIARY CONDENSATE DRAIN OR UL-508 WATER LEVEL DETECTION DEVICE IN ACCORDANCE WITH SECTION 307.2.3 OF THE IMC.
4. THE GAS AND CONDENSATE CONNECTIONS CAN BE ON EITHER SIDE OF THE FURNACE AS REQUIRED IN THE FIELD.

GAS-FIRED FURNACE DETAIL

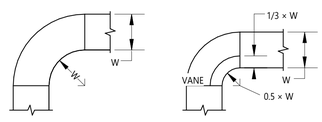
SCALE: NONE



NOTES:
1. SEE PLANS FOR PIPE AND DUCT SIZES.
2. DUCT ROUTING MAY DIFFER ON THE PLANS FROM WHAT IS SHOWN. TRANSITION SUPPLY AND RETURN DUCTS TO THE UNIT CONNECTION SIZES.
3. FIELD PROVIDED EQUIPMENT PLATFORM SHALL BE MINIMUM 4" TALL TO ACCOMMODATE CONDENSATE DRAIN TRAP AND SHALL BE LEVEL WITH SILL PLATE OF OPENING FOR LOUVER IN EXTERIOR WALL. PIPE THE 3/4" PVC CONDENSATE DRAIN TO THE BUILDING EXTERIOR AND TERMINATE WITH 45° ELBOW DOWN.

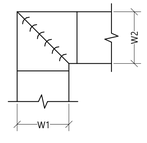
GAS-FIRED PTAC UNIT DETAIL

SCALE: NONE



FULL RADIUS ELBOW SHORT RADIUS ELBOW

NOTES:
1. FULL RADIUS ELBOWS SHALL BE USED AS THE STANDARD. SHORT RADIUS ELBOWS ARE ONLY PERMITTED WHERE FULL RADIUS ELBOWS WILL NOT FIT.
2. THE INTERIOR OF ALL RADIUS ELBOWS SHALL BE MADE ROUND.
3. VANES SHALL BE CONSTUCTED, SUPPORTED AND FASTENED AS RECOMMENDED BY SMACNA.

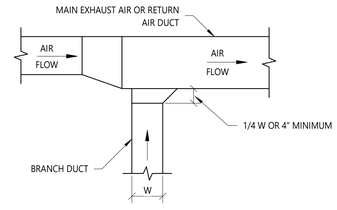


NOTES:
1. DIMENSIONS 'W1' AND 'W2' SHALL BE EQUAL ON SQUARE ELBOWS, UNLESS NOTED OTHERWISE ON THE DRAWINGS.
2. VANES SHALL BE AIRFOIL VANE TYPE. VANES SHALL BE CONSTRUCTED, SUPPORTED AND FASTENED AS RECOMMENDED BY SMACNA.

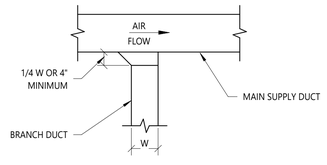
SQUARE ELBOW WITH TURNING VANES

DUCT ELBOWS DETAIL

SCALE: NONE



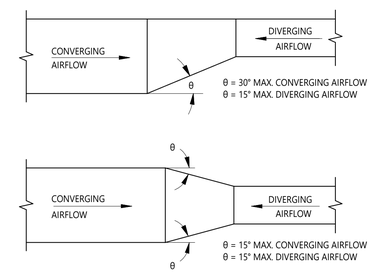
RETURN/EXHAUST BRANCH DUCT TAKE-OFF PLAN VIEW



SUPPLY BRANCH DUCT TAKE-OFF PLAN VIEW

DUCT TAKE-OFFS DETAIL

SCALE: NONE



DUCT TRANSITIONS DETAIL

SCALE: NONE

REVISION SCHEDULE

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ROCK SPRINGS, WYOMING

APN: 03-HSCC-26
Date Issued: 2026.01.21
Drawn By: JAN
Checked By: JHM
Sheet Title: MECHANICAL DETAILS
Sheet Number: M-501

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BID DRAWINGS

GAS-FIRED PTAC UNIT SCHEDULE

TAG	MAKE	MODEL	SUPPLY FAN DATA					DX COOLING DATA						GAS-HEATING DATA						FILTER	ELECTRICAL DATA				WEIGHT	REMARKS
			CFM	OA CFM	ESP	DRIVE TYPE	MOTOR HP	NOM. TONS	RATED COOLING CAPACITY	SEER2/EER2	COMP. FAN HP	REF.	REF CHARGE	FUEL	HTG INPUT AT S.L.	AFUE	HTG OUTPUT AT 6742'	TEMP RISE	GAS CONN.		VOLT/PH/HZ	MCA	MOCP	SCCR		
PTAC-1	MAGIC PAK	MGE824-7-11-12NP-01A	420 CFM	70 CFM	0.30 in-wg	DD-ECM	1/3 HP	1	12,000 Btu/h	11.7/10.5	1/8 HP	R-454B	3.4 lb	NG	24,000 Btu/h	80%	14,022 Btu/h	39.7 °F	1/2"	1" MERV 6	240/1/60	8 A	15 A	5000 A	273 lb	ALL
PTAC-2	MAGIC PAK	MGE824-7-11-12NP-01A	420 CFM	70 CFM	0.30 in-wg	DD-ECM	1/3 HP	1	12,000 Btu/h	11.7/10.5	1/8 HP	R-454B	3.4 lb	NG	24,000 Btu/h	80%	14,022 Btu/h	39.7 °F	1/2"	1" MERV 6	240/1/60	8 A	15 A	5000 A	273 lb	ALL

1.) INSULATED STEEL CABINET 2.) PROVIDE WITH REFRIGERANT DETECTION SYSTEM 3.) REFRIGERANT HIGH/LOW PRESSURE SWITCHES 4.) FACTORY INSTALLED 24V CONTROL TRANSFORMER 5.) CONSTANT TORQUE MULTI-SPEED SUPPLY AIR BLOWER 6.) CONDENSATE DRAIN PAN OVERFLOW SWITCH 7.) WALL SLEEVE & ALUMINUM LOUVER (COLOR BY ARCHITECT) 8.) 7-DAY PROGRAMMABLE THERMOSTAT (SEE SPECIFICATIONS AND SEQUENCE OF OPERATION)

GAS-FIRED FURNACE SCHEDULE

TAG	MAKE	MODEL	SUPPLY FAN DATA					GAS HEATING DATA								DX COOLING DATA				ELECTRICAL DATA			WEIGHT	REMARKS
			CFM	OA CFM	ESP (W/O FILTER)	DRIVE TYPE	MOTOR HP	FUEL	HTG STAGES	HTG INPUT	AFUE	HTG OUTPUT @ 6700'	EAT	LAT	GAS CONN.	COIL MODEL	REF.	NOM. TONS	WET COIL APD	VOLTAGE	MCA	MOCP		
FUR-1	TRANE	S9X1B040U3PSB	900 CFM	165 CFM	0.90 in-wg	DD-ECM	1/2 HP	NG	1	40,000 Btu/h	96%	28,044 Btu/h	55.5 °F	92.6 °F	1/2"	5TXCB003AS3	R-454B	2	0.23 in-wg	120 V	10.3 A	15 A	156 lb	ALL
FUR-2	TRANE	S9X1B040U3PSB	600 CFM	130 CFM	0.90 in-wg	DD-ECM	1/2 HP	NG	1	40,000 Btu/h	96%	28,044 Btu/h	52.9 °F	108.5 °F	1/2"	5TXCB003AS3	R-454B	1.5	0.10 in-wg	120 V	10.3 A	15 A	156 lb	ALL

1.) CONSTANT TORQUE MULTI-SPEED EC MOTOR 2.) STAINLESS STEEL PRIMARY & SECONDARY HX 3.) 1" MERV 8 FILTER KIT 4.) HIGH ALTITUDE KIT FOR 6,700' 5.) CONCENTRIC ROOF TERMINATION KIT 6.) CONDENSATE NEUTRALIZATION KIT (NEUTRAPAL #NC-1W) 7.) REFRIGERANT LEAK DETECTION SYSTEM 8.) 7-DAY PROGRAMMABLE THERMOSTAT (SEE SPECIFICATIONS AND SEQUENCE OF OPERATION)

ACCEPTABLE ALTERNATE MANUFACTURERS: CARRIER, LENNOX, OR YORK

RANGE HOOD SCHEDULE

TAG	MAKE	MODEL	HOOD SIZE	DUCT SIZE	EA CFM	ESP	SONES	VOLT/PH/HZ	FLA	REMARKS
RH-1	BROAN	EWP1306SS	30"x20"x11"	6"ø	580 CFM	0.25 in-wg	12.5	120/1/60	3.7 A	ALL

1.) ETL LISTED 2.) WALL MOUNT INSTALLATION 3.) STAINLESS STEEL FINISH 4.) VERTICAL DUCT CONNECTION 5.) 4-SPEED FAN 6.) LED LIGHTS 7.) BAFFLE FILTERS, WASHABLE 8.) POWER CORD CONNECTED 9.) TOUCH PANEL CONTROLS 10.) REMOTE CONTROL FOR ADA COMPLIANCE

ACCEPTABLE ALTERNATE MANUFACTURERS: HAUSLANE, NU-TONE, ZLINE

MAKEUP AIR UNIT SCHEDULE

TAG	MAKE	MODEL	DUCT SIZE	CFM	ESP	DRIVE TYPE	VOLT/PH/HZ	FLA	FILTER TYPE	WEIGHT	REMARKS
MAU-1	FANTECH	MUAS-8	8	500 CFM	0.80 in-wg	DD-ECM	120/1/60	2.2 A	MERV 11	105 lb	ALL

1.) UL-LISTED & HVI CERTIFIED 2.) FACTORY-INSTALLED FAN CONTROLLER W/ BUILDING STATIC PRESSURE SENSOR FOR VARIABLE SUPPLY AIRFLOW 3.) MOTORIZED SHUT-OFF DAMPER 4.) INSULATED CABINET 5.) MOUNTING BRACKETS

ACCEPTABLE ALTERNATE MANUFACTURERS: PRIOR APPROVED EQUAL

GRILLES, REGISTERS AND DIFFUSER SCHEDULE

TAG	MAKE	MODEL	APPLICATION	DAMPER	MOUNTING	MATERIAL	COLOR	DESCRIPTION
RG-1	SHOEMAKER	1050	RETURN	NONE	CEILING	STEEL	WHITE	STAMPED ONE PIECE GRILLE, 1/2" SPACED BLADES PARALLEL TO LONG DIMENSION. SEE PLANS FOR NECK SIZE.
RG-2	SHOEMAKER	915	RETURN	NONE	CEILING	ALUMINUM	WHITE	SINGLE DEFLECTION FIXED 45° BLADE GRILLE. SEE PLANS FOR NECK SIZE.
SG-1	SHOEMAKER	945	SUPPLY	YES	CEILING	STEEL	WHITE	STAMPED ONE PIECE FRAME, ADJUSTABLE BLADES. 3- OR 4-WAY THROW. SEE PLANS FOR SIZE AND CFM.

CONDENSING UNIT SCHEDULE (FUTURE)

TAG	MAKE	MODEL	NOM. TONS	SEER2	REF.	REF CHARGE	L/S CONN.	MOTOR HP	VOLTAGE	PHASE	MCA	MOCP	WEIGHT	REMARKS
CU-3	TRANE	5TTR3018A1	1.5	13.4	R-454B	2.9 LB	5/16"L / 3/4"S	1/8	240 V	1	9.0 A	20 A	133 lb	ALL

1.) SINGLE STAGE SCROLL COMPRESSOR 2.) LOUVERED HAIL GUARDS 3.) LIQUID LINE FILTER/DRIER 4.) HIGH/LOW PRESSURE SWITCHES

ACCEPTABLE ALTERNATE MANUFACTURERS: CARRIER, LENNOX, OR YORK

ELECTRIC COVE HEATER SCHEDULE

TAG	MAKE	MODEL	HEATER WATTS	LENGTH	VOLTAGE	PHASE	TOTAL AMPS	COLOR	WEIGHT	REMARKS
ECH-1	TPI CORP	CV9012X	900 W	84 in	120 V	1	8.0 A	WHITE	14 lb	ALL

1.) ALUMINUM CONSTRUCTION WITH FACTORY POWDER COAT FINISH 2.) MOUNTING BRACKETS

ACCEPTABLE ALTERNATE MANUFACTURERS: BERKO, INDEECO, MARKEL, OR OUELLET

GAS-FIRED FURNACE SCHEDULE (FUTURE)

TAG	MAKE	MODEL	SUPPLY FAN DATA					GAS HEATING DATA								DX COOLING DATA				ELECTRICAL DATA			WEIGHT	REMARKS
			CFM	OA CFM	ESP (W/O FILTER)	DRIVE TYPE	MOTOR HP	FUEL	HTG STAGES	HTG INPUT	AFUE	HTG OUTPUT @ 6700'	EAT	LAT	GAS CONN.	COIL MODEL	REF.	NOM. TONS	WET COIL APD	VOLTAGE	MCA	MOCP		
FUR-3	TRANE	S9X1B040U3PSB	600 CFM	120 CFM	0.90 in-wg	DD-ECM	1/2 HP	NG	1	40,000 Btu/h	96%	28,044 Btu/h	54.2 °F	109.8 °F	1/2"	5TXCB003AS3	R-454B	1.5	0.10 in-wg	120 V	10.3 A	15 A	156 lb	ALL

1.) CONSTANT TORQUE MULTI-SPEED EC MOTOR 2.) STAINLESS STEEL PRIMARY & SECONDARY HX 3.) 1" MERV 8 FILTER KIT 4.) HIGH ALTITUDE KIT FOR 6,700' 5.) CONCENTRIC ROOF TERMINATION KIT 6.) CONDENSATE NEUTRALIZATION KIT 7.) 7-DAY PROGRAMMABLE THERMOSTAT (SEE SPECIFICATIONS AND SEQUENCE OF OPERATION)

ACCEPTABLE ALTERNATE MANUFACTURERS: CARRIER, LENNOX, OR YORK

ELECTRIC DUCT HEATER SCHEDULE

TAG	MAKE	MODEL	DUCT SIZE	DESIGN CFM	MAX. WATTS	VOLT/PH/HZ	FLA	WEIGHT	REMARKS
EDH-1	FANTECH	MUAH 10	10"ø	500 CFM	10,000 W	240/1/60	41.7 A	25.1 lb	ALL

1.) INTEGRAL ELECTRONIC TEMPERATURE REGULATOR (DISCHARGE AIR TEMP, SET TO 70°F) 2.) INTERLOCK WITH MAKE-UP AIR UNIT, MAU-1

ACCEPTABLE ALTERNATE MANUFACTURERS: GREENHECK, INDEECO, TPI CORP.

EXHAUST FAN SCHEDULE (FUTURE)

TAG	MAKE	MODEL	EA CFM	EF ESP	DRIVE TYPE	MOTOR POWER	VOLTAGE	PHASE	SONES	WEIGHT	CONTROL	REMARKS
EF-7	FANTECH	SC50-80-110	80 CFM	0.1 in-wg	DD	6.8 W	120 V	1	0.6	14 lb	A	1 - 4

REMARKS: 1.) ETL-LISTED & ENERGY STAR CERTIFIED 2.) INTEGRAL BACKDRAFT DAMPER 3.) ROUND DUCT CONNECTOR 4.) SELECTABLE AIRFLOW SETTING (50/80/110 CFM)

CONTROLS: A.) FAN ON W/ LIGHTS, COORDINATE W/ E.C. FOR WIRING

GRAVITY VENTILATOR SCHEDULE

TAG	MAKE	MODEL	APPLICATION	CFM	APD	THROAT LENGTH	THROAT WIDTH	HOOD LENGTH	HOOD WIDTH	MATERIAL	WEIGHT W/CURB	REMARKS
IH-1	GREENHECK	FGI	INTAKE	915 CFM	0.05 in-wg	16"	16"	36"	26"	GALVANIZED	75 lb	ALL

1.) 12" TALL INSULATED PITCHED ROOF CURB 2.) DUCTED INSTALLATION 3.) INSECT SCREEN

ACCEPTABLE ALTERNATE MANUFACTURERS: LOREN COOK, PENNBARRY, OR TWIN CITY

CONDENSING UNIT SCHEDULE

TAG	MAKE	MODEL	NOM. TONS	SEER2	REF.	REF CHARGE	L/S CONN.	MOTOR HP	VOLTAGE	PHASE	MCA	MOCP	WEIGHT	REMARKS
CU-1	TRANE	5TTR3024A1	2	13.4	R-454B	2.8 LB	5/16"L / 3/4"S	1/8	240 V	1	14.0 A	20 A	133 lb	ALL
CU-2	TRANE	5TTR3018A1	1.5	13.4	R-454B	2.9 LB	5/16"L / 3/4"S	1/8	240 V	1	9.0 A	20 A	133 lb	ALL

1.) SINGLE STAGE SCROLL COMPRESSOR 2.) LOUVERED HAIL GUARDS 3.) LIQUID LINE FILTER/DRIER 4.) HIGH/LOW PRESSURE SWITCHES

ACCEPTABLE ALTERNATE MANUFACTURERS: CARRIER, LENNOX, OR YORK

EXHAUST FAN SCHEDULE

TAG	MAKE	MODEL	EA CFM	EF ESP	DRIVE TYPE	MOTOR POWER	VOLTAGE	PHASE	SONES	WEIGHT	CONTROL	REMARKS
EF-1	FANTECH	SC50-80-110	80 CFM	0.1 in-wg	DD	6.8 W	120 V	1	0.6	14 lb	A	1 - 5
EF-2	FANTECH	SC50-80-110	80 CFM	0.1 in-wg	DD	6.8 W	120 V	1	0.6	14 lb	A	1 - 5
EF-3	FANTECH	SC50-80-110	50 CFM	0.1 in-wg	DD	5.0 W	120 V	1	0.3	14 lb	A	1 - 5
EF-4	FANTECH	SC50-80-110	80 CFM	0.1 in-wg	DD	6.8 W	120 V	1	0.6	14 lb	A	1 - 4, 6
EF-5	FANTECH	SC50-80-110	80 CFM	0.1 in-wg	DD	6.8 W	120 V	1	0.6	14 lb	A	1 - 4, 6
EF-6	GREENHECK	SP-A510-VG	450 CFM	0.2 in-wg	DD-ECM	2.45 FLA	120 V	1	6	32 lb	A	2, 6 - 11

REMARKS:
1.) ETL-LISTED & ENERGY STAR CERTIFIED 2.) INTEGRAL BACKDRAFT DAMPER 3.) ROUND DUCT CONNECTOR 4.) SELECTABLE AIRFLOW SETTING (50/80/110 CFM) 5.) PROVIDE WITH ROOF JACK W/ BACKDRAFT DAMPER & BIRD SCREEN
6.) HOODED WALL CAP W/ DAMPER & BIRD SCREEN 7.) UL-507 LISTED 8.) SPEED CONTROL DIAL ON MOTOR 9.) VIBRATION ISOLATION KIT 10.) ALUMINUM GRILLE W/ WHITE ENAMEL FINISH 11.) PLUG-TYPE DISCONNECT

CONTROLS:
A.) CONTROLLED BY DEDICATED WALL SWITCH PROVIDED AND WIRED BY E.C.

ACCEPTABLE ALTERNATE MANUFACTURERS: FANTECH, GREENHECK, LOREN COOK, PENNBARRY, OR TWIN CITY

NOTE:

THE ORIGINAL DRAWINGS FOR THIS PROJECT ARE 36" X 24". IF YOU HAVE A SMALLER SET, IT HAS BEEN REDUCED AND DRAWING SCALES ARE NOT VALID.

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NEW RECTORY AT
HOLY SPIRIT CATHOLIC COMMUNITY
ROCK SPRINGS, WYOMING

REVISION SCHEDULE

Revision Number	Revision Description	Revision Date
1	BID DRAWINGS	04/22/2026

APN: 03-HSCC-26
Date Issued: 2026.01.21
Drawn By: JAN
Checked By: JHM
Sheet Title: MECHANICAL SCHEDULES
Sheet Number: M-601

4/22/2026 1:06:41 PM
BID DRAWINGS

PLUMBING GENERAL NOTES & SPECIFICATIONS:

1. ALL WORK SHALL BE IN ACCORDANCE WITH APPLICABLE LOCAL AND STATE CODES INCLUDING BUT NOT LIMITED TO THE 2024 INTERNATIONAL BUILDING, FIRE, MECHANICAL, PLUMBING, AND FUEL GAS CODES (IBC, IFC, IMC, IPC, IFGC) WITH LOCAL AMENDMENTS.
2. CONTRACTOR AND SUB-CONTRACTORS SHALL PROVIDE ALL LABOR, MATERIAL AND EQUIPMENT TO COMPLETE ALL WORK SHOWN ON PLANS, CALLED FOR IN SPECIFICATIONS, OR REASONABLY IMPLIED FOR A COMPLETE INSTALLATION.
3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS ON DRAWINGS WITH ACTUAL FIELD CONDITIONS. COORDINATE DRAWINGS WITH ACTUAL FIELD CONDITIONS. COORDINATE WORK LAYOUTS AND LOCATIONS OF OPENINGS THROUGH FLOORS, WALLS, CEILINGS AND ROOFS WITH DRAWINGS OR OTHER REQUIREMENTS. VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO FABRICATION OR CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
4. PLUMBING DRAWINGS ARE DIAGRAMMATIC AND DO NOT NECESSARILY INDICATE EVERY REQUIRED OFFSET, FITTING, ETC. DO NOT SCALE DRAWINGS, USE DIMENSIONS ONLY. ALL DIMENSIONS/LAYOUTS SHOWN ARE APPROXIMATE, FIELD VERIFY ALL WORK PRIOR TO ORDERING MATERIALS OR INSTALLING WORK.
5. KEEP SITE AND BUILDING ACCESSIBLE AND SAFE TO CONTRACTOR'S PERSONNEL, OWNER'S EMPLOYEES AND PUBLIC AT ALL TIMES. CONTRACTOR SHALL ENSURE SAFETY OF PERSONNEL, OWNER AND PUBLIC DURING ALL WORK AND COMPLY WITH ALL APPLICABLE REGULATIONS AND ORDINANCES PERTAINING TO SAFETY OF PERSONS AND PROPERTY.
6. INSTALL ALL WORK IN STRICT ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS, ANCHORING ALL COMPONENTS PLUMB, LEVEL, SQUARE, AND FIRMLY INTO PLACE IN FIRST CLASS MANNER AND WORKMANSHIP ACCORDING TO STANDARD CONSTRUCTION PRINCIPLES & AS APPROVED BY ENGINEER.
7. THROUGHOUT THE WORK, CAULK AND SEAL ALL JOINTS AS REQUIRED TO PROVIDE A POSITIVE BARRIER AGAINST THE PASSAGE OF AIR AND MOISTURE.
8. REPLACE OR REPAIR ANY DAMAGED SURFACES, FILL AND PATCH HOLES, ETC., TO MATCH ADJACENT SURFACES AFTER ALL ALTERATIONS AND OTHER WORK IS COMPLETED, TO SATISFACTION OF ARCHITECT/ENGINEER.
9. COORDINATE WITH THE G.C. TO PROVIDE ACCESS PANELS AS REQUIRED TO ACCESS VALVES, PLUMBING ACCESSORIES, ETC. REQUIRED FOR THE PROPER MAINTENANCE OF THE PLUMBING SYSTEMS.
10. COORDINATE WITH G.C. TO PATCH ROOFING, ROOF DECK, AND FLASHINGS AS REQ'D WITH NEW MATERIALS AND FLASHINGS FOR ALL NEW ROOF PENETRATIONS.
11. DO NOT RUN PIPES ABOVE ELECTRICAL PANELS OR EQUIPMENT. COORDINATE WITH THE E.C. FOR LOCATIONS PRIOR TO THE START OF WORK.
12. SEE THE "PLUMBING FIXTURE SCHEDULE" FOR MINIMUM PIPE SIZES TO THE FIXTURES. PROVIDE AN INCREASER/REDUCER AS REQUIRED AT THE FIXTURE CONNECTION.
13. LABEL ALL NEW WATER, WASTE, VENT, AND NATURAL GAS PIPING WITH NAMES AND FLOW ARROWS. LABELS SHALL BE NOT MORE THAN 10'-0" APART AND SHALL BE LOCATED AT ALL ACCESS LOCATIONS TO CONCEALED SPACES.
14. PROVIDE PLASTIC LAMINATED EQUIPMENT LABELS FOR THE NEW EQUIPMENT.
15. DOMESTIC WATER PIPING ABOVE GRADE:
    A. AT WATER SERVICE ENTRY & NEAR WATER HEATERS: TYPE 'L' COPPER ASTM B88. FITTINGS SHALL BE ASME B16.18, CAST COPPER OR ASME B16.22, WROUGHT COPPER AND BRONZE. JOINTS SHALL BE MADE WITH LEAD-FREE SOLDER, ASTM B32.
    B. DOWNSTREAM OF WATER SERVICE ENTRY: CROSS-LINKED POLYETHYLENE (PEX-a) PIPE, ASTM F876 OR ASTM F877. FITTINGS SHALL BE LEAD FREE BRASS, ASTM F877, ASTM F1960, NSF 61/372. JOINTS SHALL BE EXPANSION CONNECTION TYPE, TESTED IN ACCORDANCE WITH ASTM F1960 AND MADE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. UPONOR AQUAPEX TUBING AND PROPEX LEAD-FREE BRASS FITTINGS OR APPROVED EQUAL.
16. NATURAL GAS PIPING ABOVE GROUND SHALL BE STEEL PIPE ASTM A53/A53M, SCHEDULE 40, BLACK. FITTINGS SHALL BE ASME B16.3, MALLEABLE IRON OR ASTM A234/A0234M, FORGED STEEL WELDING TYPE. JOINTS SHALL BE THREADED FOR PIPE 2 INCH AND SMALLER; WELDED FOR PIPE 2-1/2 INCHES AND LARGER. PROVIDE A 6" LONG DIRT LEG (FULL SIZE), GAS SHUTOFF VALVE, AND UNION AT THE CONNECTION TO EACH PIECE OF EQUIPMENT. EXTERIOR GAS PIPING SHALL BE PAINTED FOR CORROSION PROTECTION.
17. PIPING INSULATION SHALL BE INSTALLED BY A QUALIFIED INSULATION CONTRACTOR WITH A MINIMUM OF 3-YEARS DOCUMENTED EXPERIENCE. INSULATION WORK SHALL BE COMPLETE WITH ALL EDGES SEALED, PER INDUSTRY STANDARDS, AND TO THE SATISFACTION OF THE ENGINEER. SEE THE FOLLOWING PARAGRAPHS FOR INSULATION REQUIREMENTS.
18. ALL DOMESTIC WATER PIPES SHALL BE INSULATED. COPPER PIPES SHALL HAVE FIBERGLASS PIPE INSULATION JACKETED WITH A REINFORCED VAPOR RETARDER FACING WITH A FACTORY LONGITUDINAL ACRYLIC ADHESIVE CLOSURE SYSTEM. JOHNS MANVILLE MICRO-LOK OR EQUAL BY KNAUF OR OWENS CORNING. PEX PIPES SHALL EITHER HAVE FIBERGLASS PIPE INSULATION (AS SPECIFIED ABOVE) OR PRE-FORMED FLEXIBLE ELASTOMERIC CELLULAR INSULATION, ASTM C534 GRADE 1, WITH WATERPROOF VAPOR BARRIER ADHESIVE, AS MANUFACTURED BY AEROFLEX USA, ARMACELL, OR K-FLEX USA.
    - DOMESTIC COLD/HOT WATER PIPING: 1-1/4" AND SMALLER - 0.5" THICK. 1-1/2" AND LARGER - 1.0" THICK.
    - DOMESTIC HOT WATER RECIRC PIPING: 1-1/4" AND SMALLER - 1.0" THICK.
19. PROVIDE AND INSTALL PIPE HANGERS IN ACCORDANCE WITH MSS SP-58. PIPE HANGERS SHALL HAVE A GALVANIZED INSULATION SADDLE (1-1/2" AND SMALLER) OR PIPE INSERT (2" AND LARGER) TO PROTECT INSULATION.
20. WASTE AND VENT PIPING: SOLID CORE SCHEDULE 40 PVC, ASTM D2665. FITTINGS SHALL BE ASTM D2665. JOINTS SHALL BE ASTM D2855, SOLVENT WELD WITH ASTM D2564 SOLVENT CEMENT. CELLULAR CORE IS NOT ACCEPTABLE.
21. HIGH EFFICIENCY WATER HEATER FLUE AND COMBUSTION AIR PIPES SHALL BE SOLID CORE PVC, ASTM D1785 WITH ASTM D2466 PVC FITTINGS. JOINTS SHALL BE MADE WITH ASTM F656 PRIMER AND ASTM D2564 PVC SOLVENT CEMENT. VERIFY PIPE MATERIAL WITH THE EQUIPMENT MANUFACTURER PRIOR PURCHASING MATERIALS. INSTALL PIPES IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
22. INSTALL NON-CONDUCTING DIELECTRIC FITTINGS WHEREVER JOINING DISSIMILAR METALS.
23. ACCEPTABLE VALVE MANUFACTURERS: APOLLO VALVE, CRANE VALVE, HAMMOND VALVE, MILWAUKEE VALVE COMPANY, NIBCO, STOCKHAM VALVES AND FITTINGS OR PRIOR APPROVED EQUAL.
24. ALL VALVES USED ON DOMESTIC WATER SYSTEMS SHALL BE LEAD FREE AND NSF RATED.
25. BALL VALVES 2" AND SMALLER: NSF 61 COMPLIANT, MSS SP110, 600 PSI WOG, TWO PIECE BRONZE BODY, CHROME PLATED BRASS BALL, FULL PORT, TEFLON SEATS, BLOW-OUT PROOF STEM, SOLDER OR THREADED ENDS, EXTENDED LEVER HANDLE AS REQUIRED FOR OPERATION WITH PIPING INSULATION.
26. NATURAL GAS BALL VALVES (3" AND SMALLER): MSS SP 110, CSA CERTIFIED TO ASME B16.33, TWO PIECE, THREADED ENDS, BRONZE BODY, CHROME PLATED BRONZE BALL, FULL PORT, REINFORCED TEFLON SEATS, BLOW-OUT PROOF STEM, LEVER HANDLE, UL 842 LISTED FOR FLAMMABLE LIQUIDS AND LPG - 250 PSI.
27. HORIZONTAL SWING CHECK VALVES 2" AND SMALLER: NSF 61 COMPLIANT, MSS SP 80, CLASS 125, BRONZE BODY AND CAP, Y-PATTERN, BRONZE REGRINDING DISC, SOLDER OR THREADED ENDS.
28. EXAMINE ROUGH-IN FOR WATER AND WASTE PIPING. USE MANUFACTURER'S ROUGH-IN DIMENSIONS. ADJUST EXISTING AS REQUIRED. REFER TO THE ARCHITECTURAL PLANS FOR EXACT FIXTURE LOCATION DIMENSIONS.
29. INSTALL PLUMBING FIXTURES LEVEL AND PLUMB. SEAL AROUND FIXTURES TO WALL OR FLOOR WITH SEALANT TO MATCH FIXTURE. CLEAN ALL FIXTURES BEFORE TURNING OVER TO THE OWNER.
30. PROVIDE A QUARTER TURN STOP ON THE WATER SUPPLY TO EACH PLUMBING FIXTURE. INSTALL STOPS SO THAT THEY ARE EASILY ACCESSIBLE. ALL SUPPLIES AFTER THE STOPS SHALL BE RIGID CHROME PLATED. FLEXIBLE SUPPLIES CAN BE USED WHERE PIPING IS LOCATED WITHIN A CABINET.
31. ALL PIPE PENETRATIONS THROUGH THE FLOORS AND WALLS SHALL BE SLEEVED WITH GALVANIZED STEEL. SLEEVES SHALL BE LARGE ENOUGH TO ALLOW FOR INSULATION TO BE CONTINUOUS THROUGH THE SLEEVE. SEAL AROUND SLEEVES AND PROVIDE STAINLESS STEEL ESCUTCHEONS IN FINISHED SPACES.
32. WHERE PIPES PENETRATE A FIRE RATED ASSEMBLY PACK THE VOID WITH BACKING MATERIAL AND SEAL WITH UL LISTED FIRE CAULK TO MEET THE FIRE RATING OF ASSEMBLY PENETRATED. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS AND TYPES OF FIRE RATED ASSEMBLIES.
33. INSTALL TRAP AND VENT ON THE DRAIN OUTLET OF EACH FIXTURE TO BE DIRECTLY CONNECTED TO THE SANITARY SEWER SYSTEM. EXPOSED P-TRAPS LOCATED UNDER SINKS SHALL BE 17 GA. CHROME PLATED WITH CLEANOUT.
34. WALL CLEANOUTS IN FINISHED AREAS SHALL BE LINE TYPE WITH ROUND STAINLESS STEEL ACCESS COVER SECURED WITH MACHINE SCREWS.
35. FLOOR AND GRADE CLEANOUTS IN FINISHED AREAS SHALL BE LINE TYPE, PVC BODY WITH ADJUSTABLE RISER.
36. PLUMBING VENTS THROUGH THE ROOF SHALL BE 3" MINIMUM. WHERE THE CONNECTING PIPE IS SMALLER, THE PIPE SHALL TRANSITION A MINIMUM OF 12" BELOW THE ROOF STRUCTURE AND THEN EXTEND THROUGH THE ROOF AS A 3" PIPE.
37. COORDINATE EXACT LOCATION OF EQUIPMENT AND ROUTES TO AND FROM EQUIPMENT WITH STRUCTURE AND CONDITIONS. THE CONTRACTOR IS RESPONSIBLE FOR OFFSETS OF PIPING TO AVOID CONFLICTS. NOT ALL OFFSETS, FITTINGS, EXTENSIONS SHOWN THAT MAY BE REQUIRED DURING CONSTRUCTION.
38. INSTALL PIPING TO ALLOW FOR EXPANSION AND CONTRACTION WITHOUT STRESSING JOINTS OR CONNECTED EQUIPMENT. ROUTE PIPING IN ORDERLY MANNER PARALLEL AND PERPENDICULAR TO WALLS AND MAINTAIN GRADIENT. GROUP PIPING AT COMMON ELEVATIONS WHEREVER POSSIBLE.
39. TEST ALL WATER, WASTE, AND VENT PIPING IN ACCORDANCE WITH THE INTERNATIONAL PLUMBING CODE AND PER THE LOCAL AUTHORITY HAVING JURISDICTION.
40. THE PLUMBING CONTRACTOR SHALL PROVIDE PRODUCT DATA SUBMITTALS FOR ALL THE PLUMBING EQUIPMENT SCHEDULED, PLUMBING FIXTURES, PIPING, PIPE INSULATION, AND VALVES. ALL EQUIPMENT SUBMITTALS SHALL BE REVIEWED BY THE ENGINEER PRIOR TO THE START OF WORK.
41. THE CONTRACTOR SHALL PROVIDE THE OWNER WITH (1) FULL SIZE SET OF THE AS-BUILT PLUMBING DRAWINGS WHICH SHALL SHOW THE ACTUAL LOCATIONS OF PIPES, VALVES, FIXTURES, AND ACCESSORIES OR ANY OTHER DEVIATIONS FROM THE DESIGN DRAWINGS.
42. THE CONTRACTOR SHALL PROVIDE THE OWNER WITH (1) COPY OF ALL OPERATIONAL AND MAINTENANCE (O&M) MANUALS FOR EACH PIECE OF EQUIPMENT. THE MANUAL SHALL INCLUDE: THE CONTRACTOR'S CONTACT INFORMATION, THE MANUFACTURER'S PUBLISHED O&M INSTRUCTIONS, THE APPROVED SUBMITTAL DRAWINGS, AND THE FINAL APPROVED TEST AND BALANCE REPORT. COMBINE ALL THE MANUALS IN A 3-RING BINDER INDEXED FOR EACH PIECE OF EQUIPMENT. ALSO PROVIDE THE OWNER WITH THE ENTIRE O&M MANUAL IN PDF FORMAT.
43. THE CONTRACTOR SHALL PROVIDE OWNER TRAINING ON THE OPERATION AND MAINTENANCE OF THE PLUMBING EQUIPMENT.

FIRE SPRINKLER GENERAL NOTES:

1. ALL FIRE SPRINKLER WORK SHALL BE IN ACCORDANCE WITH NFPA 13D AND THE LOCAL AUTHORITY HAVING JURISDICTION. THE FIRE SPRINKLER SYSTEM SHALL PROVIDED IN ALL AREAS OF THE BUILDING EXCEPT WHERE OMISSION IS PERMITTED BY NFPA 13D.
2. FIRE SPRINKLER PIPING SHALL BE ASTM F442/F442M CPVC (SDR-PR) WITH THREADED OR SOCKET-TYPE JOINTS AND FITTINGS (SCHEDULE 80, ASTM F437 OR ASTM F439). PEX TUBING (ASTM F876) IS NOT ACCEPTABLE.
3. THE FIRE SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL SIZING OF THE FIRE SERVICE SUPPLY PIPE. SEE "WATER SERVICE ENTRANCE DETAIL", SHEET P-501.
4. SIGNAGE SHALL BE PROVIDED IN ACCORDANCE WITH NFPA 13D, SECTION 6.3.4, TO ALERT BUILDING OCCUPANTS TO THE PRESENCE OF A FIRE SPRINKLER SYSTEM.
5. THE FIRE SPRINKLER CONTRACTOR IS RESPONSIBLE FOR THE DESIGN UNDER THE SUPERVISION OF A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF WYOMING OR A NICET LEVEL IV DESIGNER. THE CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING SHOP DRAWINGS AND HYDRAULIC CALCULATIONS FOR SUBMISSION TO THE AUTHORITY HAVING JURISDICTION.
6. FIRE SPRINKLER HEADS SHALL BE LISTED RESIDENTIAL SPRINKLERS AND SHALL MATCH CEILING FINISHES.
7. AT THE END OF THE PROJECT THE FIRE SPRINKLER CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS SHOWING THE ACTUAL LOCATIONS OF HEADS, PIPING, VALVES, DRAINS, TEST STATIONS, ETC.

RADON SYSTEM GENERAL NOTES:

1. THE PLUMBING CONTRACTOR SHALL PROVIDE AN ACTIVE SUBSLAB DEPRESSURIZATION RADON REDUCTION SYSTEM IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2024 IRC, APPENDIX BE, AND THE LOCAL AHJ.
2. COORDINATE WITH THE G.C. FOR SUBFLOOR PREPARATION INCLUDING BUT NOT LIMITED TO 4" THICK LAYER OF GAS-PERMEABLE MATERIAL AND SOIL-GAS-RETARDER MEMBRANE BELOW FLOOR SLAB.
3. SEAL ALL POTENTIAL RADON ENTRY ROUTES (CONCRETE JOINTS, PIPE PENETRATIONS, FLOOR DRAINS, ETC.) WITH POLYURETHANE CAULK OR OTHER APPROPRIATE MATERIAL.
4. PROVIDE SOIL GAS COLLECTION SYSTEM BELOW THE LOWER LEVEL FLOOR SLAB. SYSTEM SHALL CONSIST OF MINIMUM 4" PERFORATED PVC PIPE AND SHALL EXTEND UNDER ALL (3) LOWER LEVEL BEDROOMS.
5. PROVIDE MINIMUM 3" PVC VENT PIPE THROUGH THE SLAB AND CONNECT TO THE SOIL GAS COLLECTION PIPING FOR SUBSLAB DEPRESSURIZATION. MULTIPLE VENT PIPES SHALL BE PROVIDED WHERE THE SUBSLAB AGGREGATE LAYER IS DIVIDED BY INTERIOR FOOTINGS OR OTHER BARRIERS.
6. EXTEND VENT PIPE(S) UP THROUGH THE ROOF, PROVIDE SLOPE FOR POSITIVE DRAINAGE BACK TO THE GROUND. LABEL VENT PIPE(S) "RADON REDUCTION SYSTEM". TERMINATE PIPE(S) ABOVE THE ROOF MINIMUM 10'-0" FROM ANY BUILDING OPENINGS OR MECHANICAL FRESH AIR INTAKES. PROVIDE RODENT SCREEN AT PIPE TERMINATION.
7. INSTALL INLINE RADON REDUCTION FAN IN ATTIC IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. FAN SHALL BE ACCESSIBLE IN THE ATTIC FOR MAINTENANCE AND REPAIR.
8. COORDINATE WITH E.C. TO PROVIDE POWER FOR FAN, INCLUDING A DEDICATED ELECTRICAL CIRCUIT AND A DISCONNECT SWITCH AT THE LOCATION OF THE FAN.

PLUMBING LEGEND

	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	DOMESTIC HOT WATER RECIRCULATION
V	VENT PIPE
W	WASTE PIPE (ABOVE GROUND)
W	WASTE PIPE (BELOW GROUND)
D	CONDENSATE DRAIN
F	FIRE PROTECTION PIPE
G	LOW PRESSURE NATURAL GAS (< 0.5 PSI)
	BALL VALVE, GATE VALVE
	CHECK VALVE
	BUTTERFLY VALVE, BALANCE VALVE
	PIPE UNION OR FLANGE
	ELBOW DOWN, TEE UP
	TEE DOWN, PIPE CONTINUATION
	REDUCER OR INCREASER
	POINT OF CONNECTION

PLUMBING ABBREVIATIONS

AAV	AIR ADMITTANCE VALVE
ABV	ABOVE
AFF	ABOVE FINISHED FLOOR
BFP	BACKFLOW PREVENTER
BLW	BELOW
DCW	DOMESTIC COLD WATER
DHW	DOMESTIC HOT WATER
DHWC	DOMESTIC HOT WATER RECIRCULATION
DN	DOWN
DWH	DOMESTIC WATER HEATER
(E)	EXISTING
EC	ELECTRICAL CONTRACTOR
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FS	FLOOR SINK
G	NATURAL GAS
GCO	GRADE CLEANOUT
LAV	LAVATORY
IE	INVERT ELEVATION
MC	MECHANICAL CONTRACTOR
(N)	NEW
PC	PLUMBING CONTRACTOR
POC	POINT OF CONNECTION
PRV	PRESSURE REDUCING VALVE
REL	RELOCATED
RPZ	REDUCED PRESSURE ZONE ASSEMBLY
SA	SHOCK ABSORBER
SH	SHOWER
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VTR	VENT THROUGH ROOF
WC	WATER CLOSET
WCO	WALL CLEANOUT
W/	WITH
W/O	WITHOUT

PLUMBING SHEET INDEX

REVISION SCHEDULE

Revision Number	Revision Description	Revision Date
1	BID DRAWINGS	04/22/2026

NOTE:

THE ORIGINAL DRAWINGS FOR THIS PROJECT ARE 36" X 24". IF YOU HAVE A SMALLER SET, IT HAS BEEN REDUCED AND DRAWING SCALES ARE NOT VALID.

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NEW RECTORY AT
HOLY SPIRIT CATHOLIC COMMUNITY
ROCK SPRINGS, WYOMING

APN: **Date Issued:** 03-HSCC-26 2026.01.21
Drawn By: JAN **Checked By:** JHM
Sheet Title: PLUMBING NOTES & LEGEND
Sheet Number: P-001

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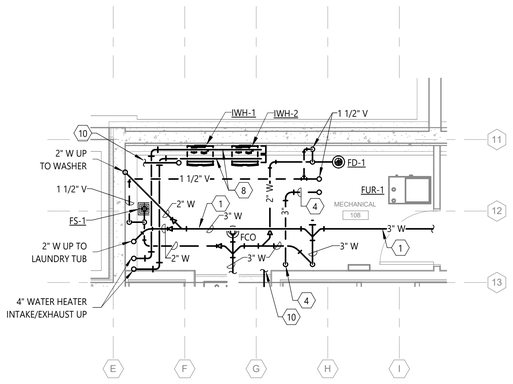
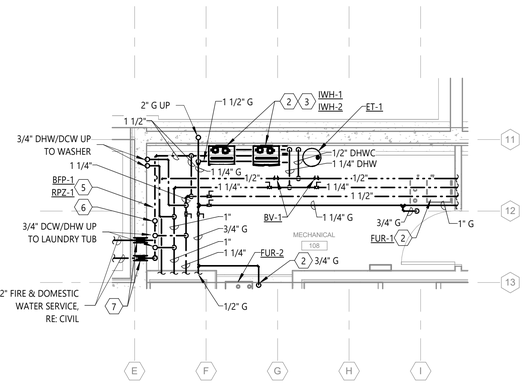
BID DRAWINGS



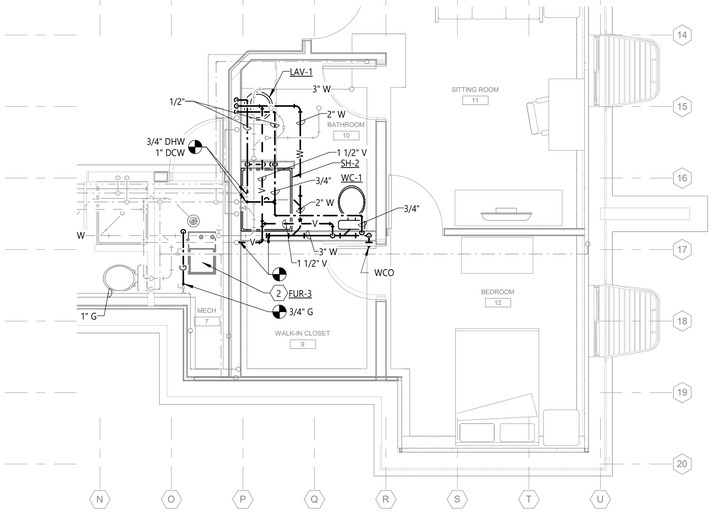
3 LOWER LEVEL PLUMBING PLAN - DWV

1/4" = 1'-0"



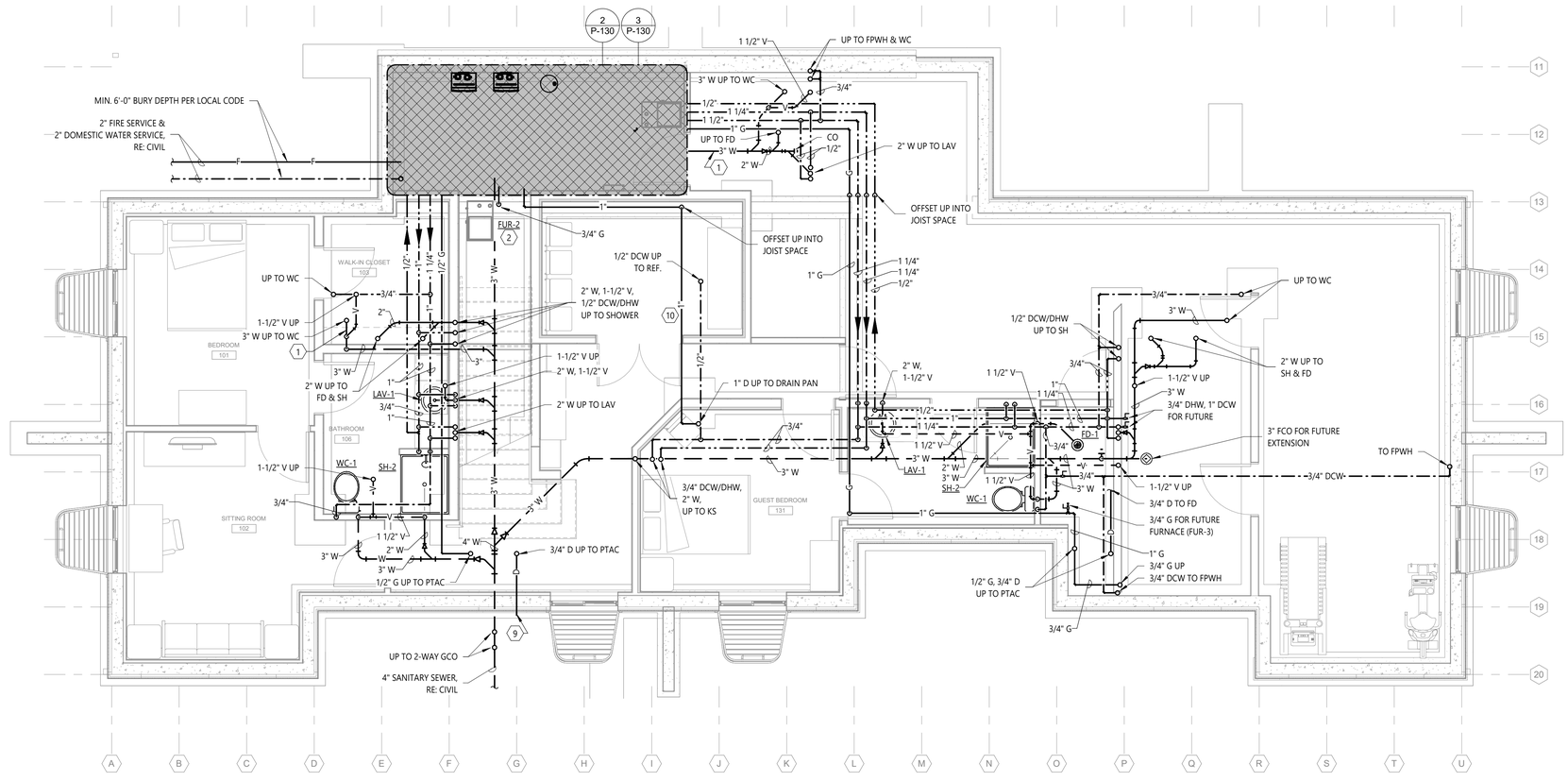
2 LOWER LEVEL PLUMBING PLAN - WATER & GAS

1/4" = 1'-0"



4 LOWER LEVEL PLUMBING PLAN - FUTURE

1/4" = 1'-0"



1 LOWER LEVEL PLUMBING PLAN

1/4" = 1'-0"

FLAG NOTES

#	
1	OVERHEAD WASTE/VENT PIPING. INSTALL AS HIGH AS POSSIBLE. COORDINATE WITH DUCTWORK AND OTHER TRADES PRIOR TO THE START OF WORK.
2	SEE "GAS-FIRED EQUIPMENT PIPING DETAIL", SHEET P-501.
3	SEE "INSTANTANEOUS WATER HEATER DETAIL," SHEET P-501.
4	3" RADON REDUCTION VENT PIPE. REFER TO "RADON REDUCTION SYSTEM GENERAL NOTES", SHEET P-001.
5	SEE "WATER SERVICE ENTRANCE DETAIL," SHEET P-501.
6	WATER SUPPLY TO RESIDENTIAL FIRE SPRINKLER SYSTEM. SEE "FIRE SPRINKLER GENERAL NOTES", SHEET P-001.
7	PROVIDE PIPE SLEEVE AND MECHANICAL SLEEVE SEAL AT PENETRATION OF FOUNDATION WALL. MECHANICAL SLEEVE SEAL SHALL BE COMPOSED OF INTERLOCKING EPDM-RUBBER LINKS WITH GLASS REINFORCED PLASTIC PRESSURE PLATES AND ZINC-COATED STEEL BOLTS. FLEXICRAFT "PIPESEAL" OR PRIOR APPROVED EQUAL.
8	COMMON VENT AND INTAKE HEADERS. SEE "INSTANTANEOUS WATER HEATER DETAIL", SHEET P-501.
9	3/4" CONDENSATE DRAIN. TERMINATE AT THE EXTERIOR WALL WITH A 45deg DOWNTURN ELBOW AND DISCHARGE TO GRADE.
10	EXTEND 1" INDIRECT DRAIN FROM APPLIANCE DRAIN PAN TO FLOOR SINK IN BASEMENT MECH ROOM. SLOPE PIPE AT MIN. 1/4" PER FOOT, PROVIDE CLEANOUTS PER CODE, AND DISCHARGE THROUGH AIR GAP INTO FLOOR SINK.

PLAN GENERAL NOTES

A. ALL PLUMBING WORK SHALL COMPLY WITH THE PLUMBING DETAILS INCLUDING:
- CLEANOUT DETAIL

REVISION SCHEDULE

Revision Number	Revision Description	Revision Date
1	BID DRAWINGS	04/22/2026

NOTE:

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NEW RECTORY AT HOLY SPIRIT CATHOLIC COMMUNITY

ROCK SPRINGS, WYOMING

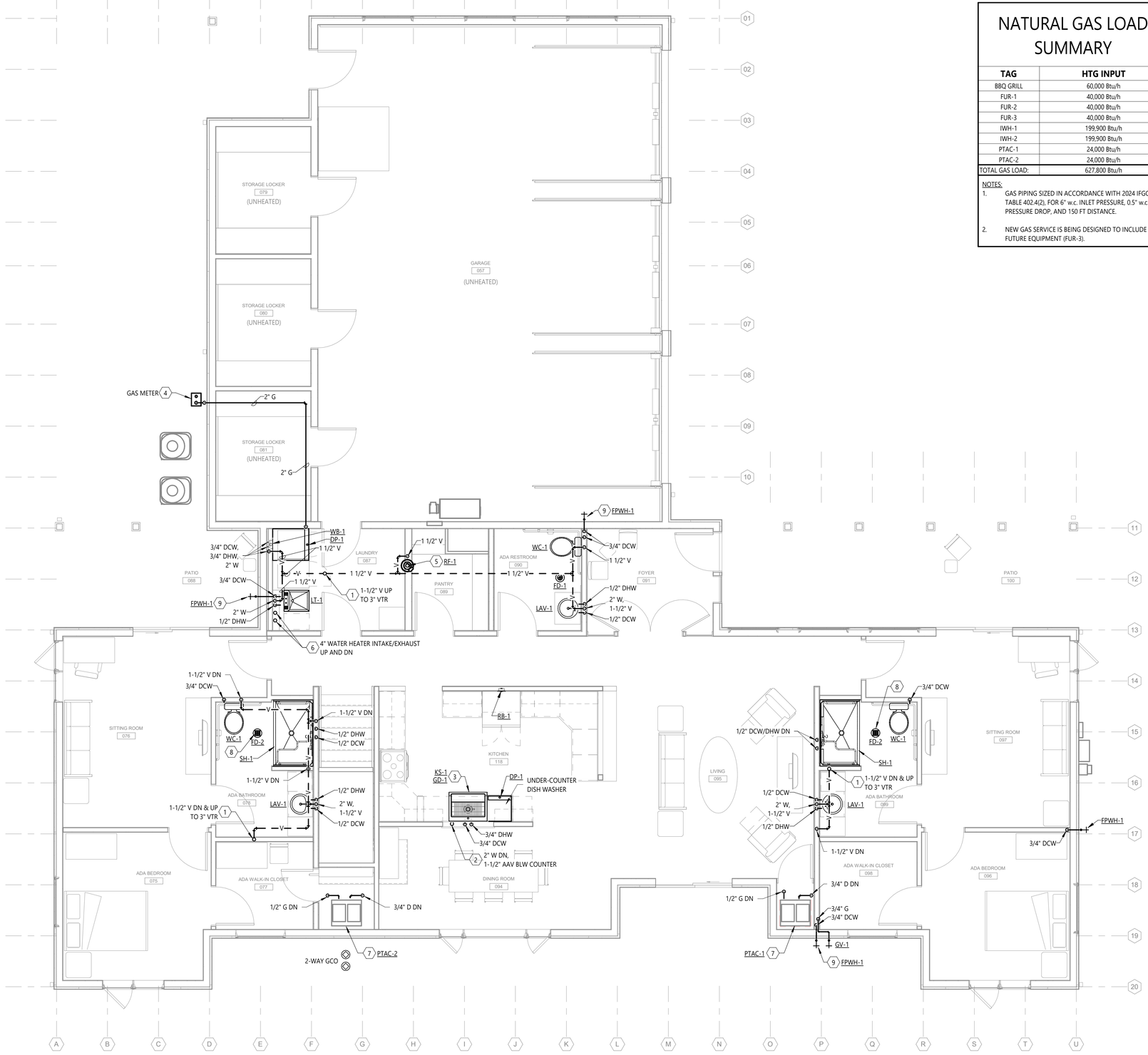
APN: 03-HSCC-26 **Date Issued:** 2026.01.21

Drawn By: JAN **Checked By:** JHM

Sheet Title: LOWER LEVEL PLUMBING PLAN

Sheet Number: P-130

4/22/2026 1:06:45 PM
BID DRAWINGS



1 MAIN LEVEL PLUMBING PLAN

1/4" = 1'-0"

NATURAL GAS LOAD SUMMARY

TAG	HTG INPUT
BBQ GRILL	60,000 Btu/h
FUR-1	40,000 Btu/h
FUR-2	40,000 Btu/h
FUR-3	40,000 Btu/h
IWH-1	199,900 Btu/h
IWH-2	199,900 Btu/h
PTAC-1	24,000 Btu/h
PTAC-2	24,000 Btu/h
TOTAL GAS LOAD:	627,800 Btu/h

NOTES:
1. GAS PIPING SIZED IN ACCORDANCE WITH 2024 IFGC, TABLE 402.4(2), FOR 6" w.c. INLET PRESSURE, 0.5" w.c. PRESSURE DROP, AND 150 FT DISTANCE.
2. NEW GAS SERVICE IS BEING DESIGNED TO INCLUDE FUTURE EQUIPMENT (FUR-3).

FLAG NOTES

(#)

1 TRANSITION TO 3" VENT THROUGH ROOF AT 12" MIN. BELOW THE BOTTOM OF THE ROOF.

2 PROVIDE 1-1/2" AIR ADMITTANCE VALVE BELOW COUNTER IN ACCORDANCE WITH IPC SECTION 918.

3 SEE "KITCHEN SINK PIPING DETAIL".

4 COORDINATE WITH THE NATURAL GAS UTILITY FOR A NEW GAS METER AND REGULATOR. FINAL LOCATION TBD BY GAS UTILITY. SEE "NATURAL GAS LOAD SUMMARY", THIS SHEET.

5 RADON REDUCTION FAN INSTALLED IN ATTIC. REFER TO "RADON REDUCTION SYSTEM GENERAL NOTES", SHEET P-001.

6 TERMINATE WATER HEATER INTAKE/EXHAUST ABOVE THE ROOF IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. PROVIDE TERMINATION FITTINGS PER THE MANUFACTURER'S RECOMMENDATIONS. MAINTAIN REQUIRED CLEARANCES BETWEEN INTAKE AND EXHAUST AND AWAY FROM MECHANICAL FRESH AIR INTAKES.

7 SEE "GAS-FIRED EQUIPMENT PIPING DETAIL", SHEET P-501.

8 INSTALL DRAIN IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS FOR INTEGRATION WITH WATERPROOFING MEMBRANE BELOW FLOOR TILE. REFER TO ARCHITECTURAL FOR INSTALLATION DETAILS.

9 INSTALL HOSE BIBB MINIMUM 16" ABV FINISHED GRADE, FINISHED FLOOR, OR DECK SURFACE.

PLAN GENERAL NOTES

A. ALL PLUMBING WORK SHALL COMPLY WITH THE PLUMBING DETAILS INCLUDING:
- CLEANOUT DETAIL

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NEW RECTORY AT HOLY SPIRIT CATHOLIC COMMUNITY

ROCK SPRINGS, WYOMING

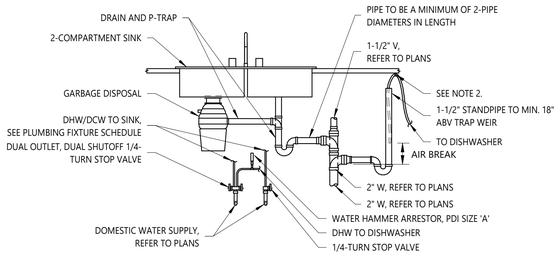
APN: 03-HSCC-26 **Date Issued:** 2026.01.21

Drawn By: JAN **Checked By:** JHM

Sheet Title: MAIN LEVEL PLUMBING PLAN

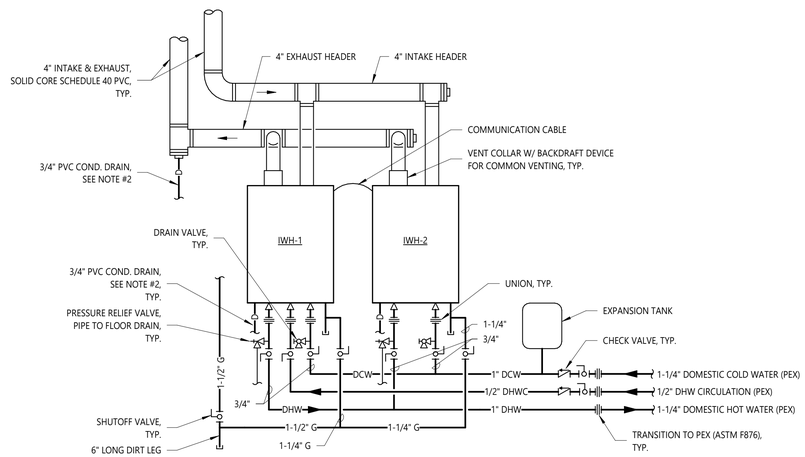
Sheet Number: P-131

4/22/2026 1:06:48 PM
BID DRAWINGS



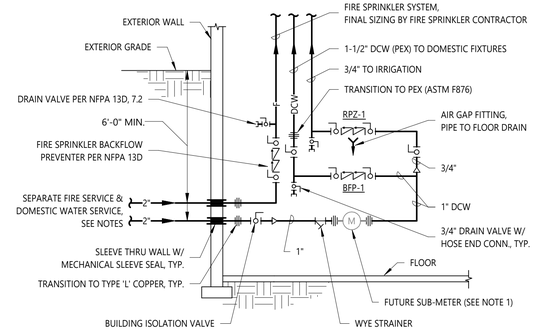
NOTES:
1. THIS DETAIL IS FOR SCHEMATIC PURPOSES ONLY. CONTRACTOR TO INSTALL SINK, GARBAGE DISPOSAL, AND DISHWASHER IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS. REFER TO THE ARCHITECTURAL PLANS FOR THE DISHWASHER LOCATION AND ADJUST PIPING AS REQUIRED.
2. ROUTE THE DRAIN HOSE OF THE DISHWASHER TO A MINIMUM HEIGHT OF 32" AFF AND SUSPEND FROM THE UNDERSIDE OF THE COUNTER IF RECOMMENDED BY THE MANUFACTURER.
3. COORDINATE W/ THE G.C. TO PROVIDE POWER FOR THE DISHWASHER AND GARBAGE DISPOSAL UNDER THE SINK.

KITCHEN SINK PIPING DETAIL
SCALE: NONE



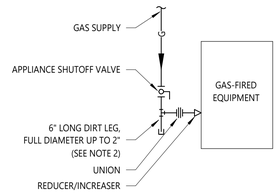
NOTES:
1. INSTALL PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
2. PIPE CONDENSATE DRAIN TO FLOOR DRAIN THROUGH CONDENSATE NEUTRALIZATION KIT PER THE MANUFACTURER'S INSTRUCTIONS.
3. WATER HEATER INTAKE AND EXHAUST PIPING SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. DO NOT EXCEED MAXIMUM ALLOWABLE PIPE LENGTH OR NUMBER OF ELBOWS.

INSTANTANEOUS WATER HEATER DETAIL
SCALE: NONE



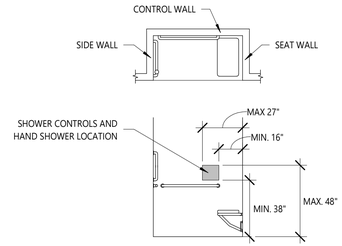
NOTES:
1. ARRANGE INSTALLATION TO MAINTAIN SPACE FOR FUTURE DOMESTIC WATER SUB-METER.
2. THE WATER SERVICE FOR THE BUILDING FIRE SPRINKLER SYSTEM SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA 13D AND THE LOCAL AUTHORITY HAVING JURISDICTION.
3. FINAL SIZING OF THE FIRE SERVICE TO BE DETERMINED BY THE FIRE SPRINKLER CONTRACTOR.
4. REFER TO CIVIL UTILITY PLANS FOR FURTHER INFORMATION.

WATER SERVICE ENTRANCE DETAIL
SCALE: NONE



NOTES:
1. APPLIANCE SHUTOFF VALVE SHALL BE INSTALLED IN AN ACCESSIBLE LOCATION.
2. REFER TO PLANS FOR PIPE SIZES. PROVIDE REDUCER/INCREASER AT THE EQUIPMENT CONNECTION AS REQUIRED.

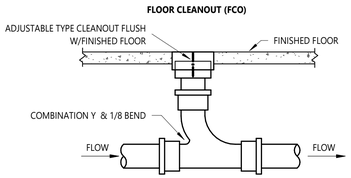
GAS-FIRED EQUIPMENT PIPING DETAIL
SCALE: NONE

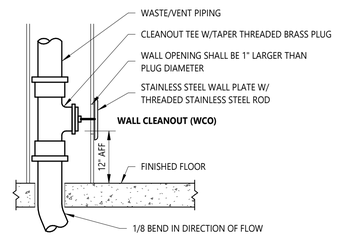


STANDARD ROLL-IN SHOWERS

NOTES:
1. THE PLUMBING CONTRACTOR SHALL COORDINATE WITH THE G.C. PRIOR TO ROUGH-IN TO ENSURE SHOWER CONTROLS AND HAND SHOWERS ARE INSTALLED IN ACCORDANCE WITH ANSI ICC A117.1-2017 SECTION 608.4.
2. SHOWER CONTROLS AND HAND SHOWER SHALL BE LOCATED ON THE CONTROL WALL (BACK WALL) ADJACENT TO THE SEAT AND WITHIN THE SHADED REGION SHOWN ABOVE.
3. THE LOCATION OF THE SEPARATE FIXED SHOWER HEAD (IF PROVIDED) SHALL BE AS INDICATED ON THE FLOOR PLANS.
4. THIS DETAIL IS INTENDED FOR PLUMBING ROUGH-IN ONLY. REFER TO ARCHITECTURAL FOR GRAB BARS, SHOWER SEATS, AND INSIDE SHOWER DIMENSIONS.
5. RIGHT-HAND SEAT ORIENTATION SHOWN. DETAIL MUST BE MIRRORED FOR A LEFT-HAND SEAT ORIENTATION

SHOWER CONTROL PLUMBING DETAIL
SCALE: NONE





CLEANOUT DETAIL
SCALE: NONE

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HOLY SPIRIT CATHOLIC COMMUNITY
ROCK SPRINGS, WYOMING

APN: 03-HSCC-26
Date Issued: 2026.01.21
Drawn By: JAN
Checked By: JHM
Sheet Title: PLUMBING DETAILS
Sheet Number: P-501

4/22/2026 1:06:49 PM
BID DRAWINGS

PLUMBING FIXTURE SCHEDULE

TAG	FIXTURE MAKE	FIXTURE MODEL	FIXTURE DESCRIPTION	FAUCET OR FLUSH VALVE MAKE	FAUCET OR FLUSH VALVE MODEL	FAUCET OR FLUSH VALVE DESCRIPTION	PIPE RUNOUT SIZES (NOTE A) DCW	DHW	W	IW	V	REMARKS
FD-1	WATTS	FD-190-PR-60	PVC FLOOR DRAIN WITH ANCHOR FLANGE, REVERSIBLE CLAMPING COLLAR WITH PRIMARY AND SECONDARY WEEPHOLES, ADJUSTABLE 5" ROUND HEEL PROOF NICKEL BRONZE STRAINER, AND PVC SOCKET OUTLET.	--	--	--	--	--	2"	--	1-1/2"	3
FD-2	KERDI-DRAIN	KD2-FLK-PVC	PVC SHOWER DRAIN WITH INTEGRATED SLOPED BONDING FLANGE, HEIGHT ADJUSTMENT COLLAR, 5"x5" SQUARE GRATE ASSEMBLY W/ NICKEL FINISH, AND NO-HUB OUTLET.	--	--	--	--	--	2"	--	1-1/2"	3
FS-1	WATTS	FS-710	8"x8"x6" DEEP SANITARY FLOOR SINK WITH WHITE PORCELAIN ENAMEL COATED INTERIOR, LOOSE SET PORCELAIN ENAMEL COATED CAST IRON 1/2 GRATE, BOTTOM DOME STRAINER, AND NO-HUB OUTLET.	--	--	--	--	--	2"	--	1-1/2"	3
KS-1	ELKAY	ELDSSF36279DBG	ADA COMPLIANT SINGLE BOWL FARMHOUSE SINK, 16 GA. 304 STAINLESS STEEL, NOMINAL 36"x27" WITH 4.8" DEEP FRONT WORK SHELF AND 9.3" DEEP BOWL. POLISHED SATIN FINISH. (1) FAUCET HOLE. REAR CENTER DRAIN. WITH REVERSIBLE BOTTOM GRID AND SS GRID DRAIN COVER. SOUND DEADENING SPRAY ON BOTTOM AND SIDES. ASME A112.19.3.	DELTA	19963Z-SD-DST	SINGLE HANDLE DECK MOUNT KITCHEN FAUCET WITH 3-FUNCTION PULL-DOWN SPRAYER, INTEGRAL CHECK VALVES, 1.8 GPM FLOW RATE. STAINLESS FINISH. SINGLE-HOLE INSTALLATION. ASME A112.18.1 AND ADA COMPLIANT.	3/4"	3/4"	2"	--	1-1/2"	NONE
LAV-1	AMERICAN STANDARD	OVALYN #0496.221	OVAL UNDERMOUNT SINK, WHITE VITREOUS CHINA, REAR DRAIN, FRONT OVERFLOW. 17"x14"x5-1/2" DEEP BOWL. UNDERCOUNTER MOUNTING KIT. ADA BARRIER FREE COMPLIANT.	DELTA COMMERCIAL	21C243	DECK MOUNTED CAST BRASS FAUCET, POLISHED CHROME FINISH, TWO LEVER HANDLES, 4" CENTERS, 1.5 GPM AERATOR, METAL POP-UP. ADA COMPLIANT.	1/2"	1/2"	2"	--	1-1/2"	1
LT-1	FIAT	SF-1-F	FLOOR MOUNTED HEAVY DUTY PLASTIC LAUNDRY TUB WITH ANGLE STEEL LEGS, 4" FAUCET LEDGE, AND 19.5"x19.6"x14.3" DEEP BASIN.	FIAT	A-1	4" CENTER SET BRASS DECK FAUCET WITH CHROME FINISH, (2) WRIST BLADE HANDLES, AND 6.75" SWING SPOUT WITH AERATOR AND HOSE ADAPTER. PROVIDED WITH LAUNDRY TUB.	3/4"	3/4"	2"	--	1-1/2"	NONE
SH-1	AQUATIC	1603BFSC	60"x34"x75-5/8" ADA ROLL-IN SHOWER ENCLOSURE. SMOOTH ACRYLIC FINISH WITH TEXTURED SLIP-RESISTANT BOTTOM. PRE-LEVELED BASE, BARRIER FREE DESIGN. CENTER DRAIN LOCATION. PROVIDE WITH 24" SIDE WALL GRAB BAR, 30" BACK WALL GRAB BAR, 18" VERTICAL GRAB BAR, WHITE CUSHIONED L-SHAPED SEAT. LH/RH TO BE DETERMINED BY THE CONTRACTOR. WHITE FINISH. PROVIDE WITH SOAP DISH, VINYL FLEXIBLE DAM, AND BRASS DRAIN.	DELTA COMMERCIAL	T13H332	ADA SHOWER TRIM SYSTEM. PRESSURE BALANCED MIXING VALVE, 1.5 GPM FIXED SHOWERHEAD WITH ARM & FLANGE, HAND-HELD SHOWER ASSEMBLY WITH INTEGRAL CHECKS, LEVER DIVERTER W/ INTEGRAL VOLUME CONTROL, 24" SLIDE BAR FOR HAND SHOWER MOUNTING. PROVIDE WITH QUICK DISCONNECT ACCESSORY FOR HAND SHOWER HOSE (DELTA #U7500). ASSE 1016. ADA COMPLIANT.	1/2"	1/2"	2"	--	1-1/2"	NONE
SH-2	AQUATIC	1423CM	42"x34"x75" SHOWER ENCLOSURE. SMOOTH ACRYLIC FINISH WITH TEXTURED SLIP-RESISTANT BOTTOM. 9" SKIRT, CENTER DRAIN LOCATION. MOLDED SOAP LEDGE. PROVIDE WITH BRASS DRAIN.	DELTA COMMERCIAL	T13H132	SHOWER TRIM COMPLETE WITH ASSE 1016 PRESSURE BALANCED MIXING VALVE, LEVER HANDLE, AND 1.5 GPM SHOWER HEAD WITH ARM AND FLANGE. ASME A112.18.1. CHROME FINISH.	1/2"	1/2"	2"	--	1-1/2"	NONE
WC-1	AMERICAN STANDARD	CADET PRO# 215AA.10x	ADA FLOOR MOUNTED, TANK TYPE ELONGATED WATER CLOSET. WHITE VITREOUS CHINA. 16-1/2" HEIGHT. 1.28 GPF W/ 1000 MaP RATING. PROVIDE WITH RIGHT OR LEFT TRIP HANDLE AS REQUIRED SO TRIP HANDLE IS TO THE OPEN SIDE OF THE COMPARTMENT.	--	--	--	3/4"	--	3"	--	1-1/2"	2

1.) PROVIDE WITH THERMOSTATIC MIXING VALVE, TMV-1 2.) PROVIDE WITH SOLID PLASTIC SEAT WITH COVER AND SELF-SUSTAINING HINGE 3.) PROVIDE WITH ASSE 1072 BARRIER-TYPE TRAP SEAL DEVICE

NOTES: A.) PIPE SIZES ARE BRANCH PIPE SIZES TO THE FIXTURES. THE FIXTURE CONNECTION SIZE MAY VARY FROM THE PIPE SIZE SHOWN. REDUCE/INCREASE PIPE AT THE FIXTURE CONNECTION AS REQUIRED.

ACCEPTABLE ALTERNATE MANUFACTURERS:
DRAINS/FLOOR SINKS - JOSAM, JR SMITH, WADE, ZURN
LAUNDRY TUBS - MUSTEE
LAVATORIES - KOHLER, SLOAN, ZURN
LAVATORY FAUCETS - CHICAGO, MOEN
KITCHEN SINKS - AMERICAN STANDARD, KOHLER
SINK FAUCETS - CHICAGO, MOEN
SHOWERS - AQUATIC BATH
SHOWER TRIM - AMERICAN STANDARD, SYMMONS
WATER CLOSETS - KOHLER, SLOAN, ZURN

PLUMBING ACCESSORY SCHEDULE

TAG	DESCRIPTION
BFP-1	WATTS MODEL# LF007-QT 1" LEAD FREE DOUBLE CHECK BACKFLOW PREVENTER WITH QUARTER TURN BALL VALVES, RESILIENT SEATED TEST COCKS. ASSE 1015 & NSF 61.
BV-1	CIRCUITSOLVER MODEL# CSU-1/2-110, SELF-ACTUATING THERMOSTATIC BALANCING VALVE WITH UNION, 300 SERIES SS BODY, LEAD FREE, 1/2" CONNECTIONS, 110°F RETURN WATER SET POINT.
DP-1	KILLARNEY METALS #KM-086xx, 18 GAUGE GALVANIZED STEEL OPEN FRONT APPLIANCE DRAIN PAN WITH INTEGRATED TRENCH TROUGH, 1" DRAIN CONNECTION, (3) SIDE WALLS, AND FULLY WELDED BASE. PAN SIZE TBD BASED ON APPLIANCE SIZE & STYLE.
ET-1	AMTROL MODEL# ST-5 IN-LINE THERMAL EXPANSION TANK, NON-ASME. 2.0 GAL, 0.45 ACCEPTANCE FACTOR. 200 degF MAX TEMP, 150 PSI MAX PRESS. BUTYL DIAPHRAGM. NSF 61.
FPWH-1	WOODFORD MODEL#17 FREEZELESS WALL HYDRANT, ROUGH BRASS FINISH, ALUMINUM WHEEL HANDLE, 3/4" HOSE END CONNECTION. ASSE 1019 VACUUM BREAKER.
GD-1	INSINKERATOR MODEL# BADGER 5 GARBAGE DISPOSER. 1/2 HP W/ MANUAL RESET OVERLOAD, 120V, 1/2 HP.
GV-1	BURNABY MODEL# G0101-SS CSA APPROVED NATURAL GAS OUTLET BOX WITH 1/2" NPT INLET, SHUTOFF VALVE, AND 3/8" KWICK DISCONNECT HOSE CONNECTION IN STAINLESS STEEL WALL BOX WITH HINGED COVER.
RB-1	WATER SUPPLY BOX. QUARTER-TURN BRASS BALL VALVE W/ WATER HAMMER ARRESTOR IN PLASTIC BOX WITH FACEPLATE TRIM. ASME A112.18.1, NSF 61/372. AS MANUFACTURED BY IPS CORP., OATEY, OR SIOUX CHIEF.
RPZ-1	WATTS MODEL# LF009 3/4" LEAD FREE REDUCED PRESSURE ZONE BACKFLOW PREVENTER WITH QUARTER TURN BALL VALVES AND AIR GAP FITTING. ASSE 1013 & NSF 61.
WB-1	WASHING MACHINE OUTLET BOX WITH 2" DRAIN OPENING AND DCW/DHW CONNECTIONS WITH QUARTER TURN BRASS BALL VALVES AND HAMMER ARRESTOR IN HIGH-IMPACT POLYSTYRENE WALL BOX. PROVIDE WITH MOUNTING BRACKETS AND FACEPLATE. ASME A112.18.1, NSF 61/372. ACCEPTABLE MANUFACTURERS INCLUDE IPS CORP., OATEY, AND SIOUX CHIEF.

INSTANTANEOUS GAS-FIRED WATER HEATER SCHEDULE

TAG	MAKE	MODEL	GAS INPUT	UEF	RECOVERY @ 80 DEG. RISE	WATER CONN.	GAS CONN.	CA CONN.	FLUE CONN.	VOLTAGE	FLA	WEIGHT	REMARKS
IWH-1	NAVIEN	NPE-240A2	199900 Btu/h	0.95	4.9 GPM	3/4"	3/4"	2"	2"	120 V	4 A	77 lb	1 - 9
IWH-2	NAVIEN	NPE-240S2	199900 Btu/h	0.96	4.9 GPM	3/4"	3/4"	2"	2"	120 V	4 A	73 lb	1 - 7

1.) PRESSURE RELIEF VALVE 2.) SET OUTLET TEMPERATURE TO 120°F 3.) CONDENSATE NEUTRALIZATION KIT 4.) BACK-DRAFT VENT COLLAR KIT FOR COMMON VENT INSTALLATION 5.) HIGH ALTITUDE KIT 6.) WALL MOUNTING BRACKET 7.) ISOLATION VALVE KIT 8.) COMMUNICATION CABLE FOR LINKING (2) WATER HEATERS 9.) BUILT-IN RECIRCULATION SYSTEM INCLUDING BUFFER TANK, RECIRCULATION PUMP, AND CONTROLS

ACCEPTABLE ALTERNATE MANUFACTURERS: AO SMITH, RINNAI

RADON REDUCTION FAN SCHEDULE

TAG	MAKE	MODEL	RATED CFM	RATED ESP	DRIVE TYPE	CONN. SIZE	VOLT/PH/HZ	FLA	CONTROL	WEIGHT	REMARKS
RF-1	FANTECH	RN-2EC	160 CFM	0.20 in-wg	EC	3"	120/1/60	1.1 A	A	5.5 lb	ALL

REMARKS 1.) HVI CERTIFIED & UL-LISTED FOR ACTIVE SOIL DEPRESSURIZATION 2.) AIR-TIGHT FAN HOUSING 3.) SPEED CONTROL DIAL ON FAN HOUSING 4.) PROVIDE WITH VIBRATION ISOLATION FAN COUPLINGS

CONTROL A) FAN TO OPERATE CONTINUOUSLY, COORDINATE W/ E.C. FOR POWER

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ROCK SPRINGS, WYOMING

APN: 03-HSCC-26
Date Issued: 2026.01.21
Drawn By: JAN
Checked By: JHM
Sheet Title: PLUMBING SCHEDULES
Sheet Number: P-601

4/22/2026 1:06:49 PM
BID DRAWINGS

ELECTRICAL FIXTURE SCHEDULE

- DUPLEX RECEPTACLE, TYPE AS SCHEDULED
- 120/240 VOLT RECEPTACLE

DATA SCHEDULE

- WAP — CEILING MOUNTED WIRELESS ACCESS POINT
- PP — PATCH PANEL, TYPE AS SCHEDULED
- TS — FLOOR RACK
- TTB — TELEPHONE TERMINAL BOARD

ELECTRICAL EQUIPMENT SCHEDULE

- CT — CT CAN AND CT'S
- DISCONNECT SWITCH
- MT — ELECTRIC METER
- PANELBOARD
- UTILITY TRANSFORMER

FIRE ALARM SCHEDULE

- SC — FIRE ALARM SMOKE/CARBON MONOXIDE DETECTOR
- RM — RELAY MODULE

LIGHTING DEVICE SCHEDULE

- S1 — SINGLE POLE WALL SWITCH
- S2 — LINE VOLTAGE DIMMER WALL SWITCH
- S3 — 3-WAY WALL SWITCH
- S4 — 4-WAY WALL SWITCH
- S5 — MOTION DETECTION WALL SWITCH
- S6 — ASTRONOMICAL WALL TIME SWITCH
- J — JUNCTION BOX

LIGHTING FIXTURE SCHEDULE

- A — LINEAR STRIP LIGHT
- B — DECORATIVE PENDANT ROOM LIGHT OVER KITCHEN ISLAND
- C4 — 4" SURFACE MOUNT LED PUCK LIGHT
- C6 — 6" SURFACE MOUNT LED PUCK LIGHT
- D — FAN WITH LIGHT
- F — CHANDELIER MAIN ENTRY
- G — EXTERIOR DECORATIVE WALL LIGHT
- H — 3'0" LINEAR LED WALL LIGHT
- L — DECORATIVE ROOM LIGHT IN SITTING ROOM
- M — DECORATIVE ROOM LIGHT IN LIVING ROOM
- N — DECORATIVE ROOM LIGHT IN DINING ROOM
- O — DECORATIVE ROOM LIGHT IN STAIR WAY
- P — DECORATIVE PENDANT ROOM LIGHT OVER KITCHEN ISLAND

HVAC SCHEDULE

- EXHAUST FAN
- CONDENSING UNIT
- FURNACE
- PTAC UNIT
- MAKEUP AIR UNIT
- RANGE HOOD
- COVE HEATER
- DUCT HEATER

1 LEGEND
No Scale

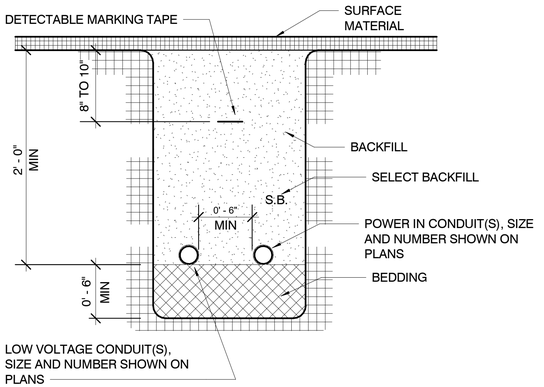
WIRING

WIRING, GROUND WIRE IS LINE WITH HOOK SYMBOL, HOT WIRE IS LONG LINE, NEUTRAL IS SHORT LINE. NUMBER OF WIRES AS SHOWN. WIRE SHALL BE #14

LP12-1 — ARROW(S) INDICATE HOME RUN(S) WITH PANEL AND CIRCUIT NUMBER(S) INDICATED

WIRING LEGEND
No Scale

SHEET LIST	
Sheet Number	**Sheet Name**
E-100	LEGEND AND SHEET INDEX
E-200	BASEMENT - LIGHTING PLAN AND SCHEDULES
E-201	MAIN LEVEL - LIGHTING PLAN
E-300	BASEMENT - POWER PLAN AND SCHEDULES
E-301	MAIN LEVEL - POWER PLAN
E-302	POWER DETAILS AND SCHEDULES
E-400	FIRE ALARM PLANS AND SCHEDULES
E-500	HVAC ELECTRICAL PLANS AND SCHEDULES
E-600	PANELBOARD SCHEDULES
E-700	DATA DETAILS AND SCHEDULES
E-800	FUTURE BASEMENT LIGHTING AND POWER PLANS
E-801	FUTURE SCHEDULES, HVAC & FIRE ALARM PLANS



2 TYPICAL CONDUIT TRENCH INSTALLATION
1 1/2" = 1'-0"

ELECTRICAL GENERAL NOTES:

1. GENERAL PROVISIONS:
   a. Electrical drawings are diagrammatic. They are intended to show the approximate locations of equipment and conduit. Dimensions given on the plans, in figures, shall take precedence over scaled dimensions and shall be verified in the field.
   b. Labor and/or materials neither shown nor specified, but obviously necessary for the completion and proper functioning of the system, shall be furnished and installed by the electrical contractor at no additional cost.
   c. Electrical contractor shall verify with other trades all electrical characteristics of equipment require electrical connections. Contractor shall verify voltage, phase and horsepower and notify engineer of any discrepancies prior to start of work. Electrical contractor shall provide disconnection means and overload protection for all equipment, unless furnished integral with the equipment package.
   d. It is the intent of these drawings that this be a complete electrical job. Any errors or omissions shall be brought to the attention of the engineer prior to bidding the job.
   e. Installation shall be in full accordance with all codes, rules and regulations of municipal, city, county, state and public utilities and other authorities having jurisdiction over the premised.
2. WIRE AND CABLE:
   a. Insulation type shall be type THWN.
   b. Flexible cord shall be heavy duty type SO with an equipment ground conductor in addition to the current carrying conductors.
   c. Provide # 12 conductors, unless otherwise indicate.
      i. Control conductors shall be # 14 minimum for NEW CLASS I and # 16 for NEC CLASS II
   d. Conductors # 8 AWG and larger shall be stranded and # 10 AWG and smaller shall be solid.
   e. Branch circuit wire sizes (and conduits) shall be increased from those indicated on the plans to prevent excessive voltage drop. Branch circuits shall be installed with wires of sufficient size so that voltage drop between the panel and the loads does not exceed limit of 3%.
   f. SCOPE OF WORK:
      i. Electrical contractor shall provide all labor, material, storage, unpacking and placement; to include but not be limited to, the following items:
         1. Emergency lighting and power.
         2. Complete branch circuit wiring.
         3. Complete power wiring for all air conditioning equipment, plumbing system, heating equipment, ventilating and exhaust equipment.
         4. Complete light fixture installation, including all lamps.
         5. Complete telephone and communication cabling, plates, jacks etc., as shown on the drawings.
3. WIRING DEVICES:
   a. Wiring device color shall be white, unless otherwise indicated.
   b. Switches and receptacles shall be specification grade.
   c. Provide NEMA configuration 5-20R duplex 125-volt grounding type receptacles rated for 20 amperes unless otherwise indicated on the drawings.
   d. Receptacles requiring amperages, voltages or configurations different from the duplex convenience receptacles above shall be as indicated on the drawings.
   e. Provide cover or device plates for outlet boxes as follows unless otherwise noted:
      i. Finished areas: Thermoplastic – color to match device.
      ii. Unfinished areas: Zinc coated sheet metal or cast metal as appropriate for the type of box.

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Professional Engineer (Electrical) MICHAEL H. GRAY 23442 WYOMING 06-22-2026

REVISION SCHEDULE		
Revision Number	**Revision Description**	**Revision Date**
1	BID DRAWINGS	04/22/26

NOTE:

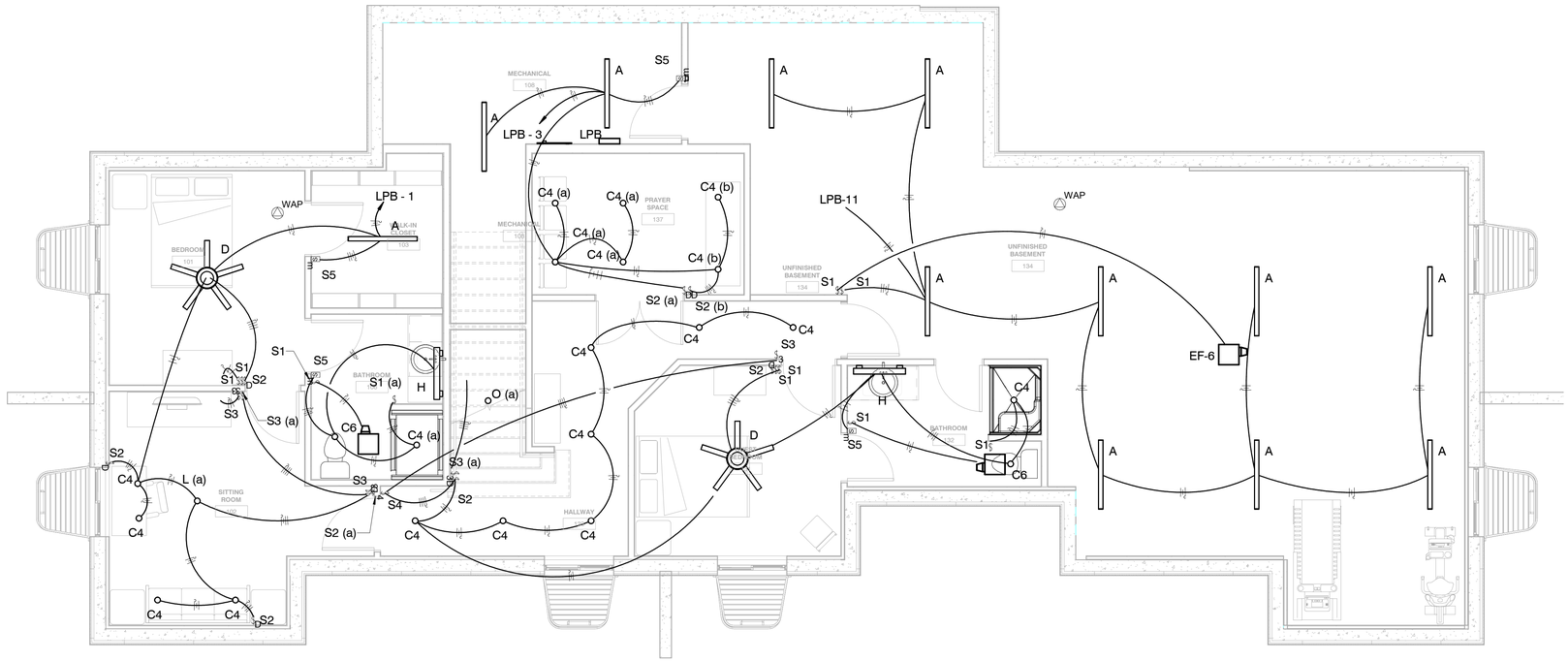
THE ORIGINAL DRAWINGS FOR THIS PROJECT ARE 36" X 24". IF YOU HAVE A SMALLER SET, IT HAS BEEN REDUCED AND DRAWING SCALES ARE NOT VALID.

NEW RECTORY AT HOLY SPIRIT CATHOLIC COMMUNITY

ROCK SPRINGS, WYOMING

APN: 03-HSCC-26
Date Issued: 06-22-26
Drawn By: MHG
Checked By: MHG
Sheet Title: LEGEND AND SHEET INDEX
Sheet Number: E-100

6/17/2026 11:15:00 AM
Project Status



1 BASEMENT - LIGHTING PLAN
1/4" = 1'-0"

LIGHTING DEVICE SCHEDULE

Type Mark	Count	Manufacturer	Model	Description
S1	18	HUBBELL	1221	SINGLE POLE 120/277 VOLT, 20 AMP GENERAL DUTY, BACK AND SIDE WIRED, MOUNT AT 3'10" AFF TO CENTER
S2	23	LEGRAND	RH703PTUTC	120 VOLT LINE VOLTAGE DIMMER, 450 WATT MAXIMUM, UNIVERSAL DIMMING
S3	20	HUBBELL	1223	3-WAY 120/277 VOLT, 20 AMP GENERAL DUTY, BACK AND SIDE WIRED, MOUNT AT 3'10" AFF TO CENTER
S4	3	HUBBELL	1224	4-WAY 120/277 VOLT, 20 AMP GENERAL DUTY, BACK AND SIDE WIRED, MOUNT AT 3'10" AFF TO CENTER
S5	16	LEGRAND	DSW-301	DUAL TECHNOLOGY WALLBOX OCCUPANCY SENSOR
S6	1	LEGRAND	RT-200	ASTRONOMICAL, DAWN/DUSK SCHEDULING, 800 WATTS MAX, 1/6 HP MAX, 120 VOLTS, MOUNT AT 3'10" AFF TO CENTER
Grand total: 81				

LIGHTING FIXTURE SCHEDULE

Type Mark	Count	Manufacturer	Model	Description
A	30	COLUMBIA LIGHTING	MPS-4-35-ML-C-W-ED-U	LINEAR LED STRIP LIGHT, 3500K, 4700 LUMENS, CURVED FROSTED ACRYLIC LENS, WIDE DISTRIBUTION, 0-10 VOLT DIMMING, UNIVERSAL VOLTAGE, 40.1 WATTS
B	7			SURFACE MOUNT LOW PROFILE, LED, 2700, 1100 LUMENS, WHITE, 13.1 WATTS FOR HALLWAYS. INCLUDE IN LIGHT FIXTURE PACKAGE
C4	25	PRESCOLITE	LBSES-4RD-CS9-WH	SURFACE MOUNT LOW PROFILE, 4" ROUND, LED, 2700K (SWITCHABLE 2700/3000/3500/4000K), 750 LUMENS, WHITE, 9.9 WATTS, WET LOCATION LISTED
C6	20	PRESCOLITE	LBSES-6RD-CS9-WH	SURFACE MOUNT LOW PROFILE, 6" ROUND, LED, 2700K (SWITCHABLE 2700/3000/3500/4000K), 1100 LUMENS, WHITE, 13.1 WATTS
D	4			48" CEILING FAN WITH LIGHT. INCLUDE IN LIGHT FIXTURE PACKAGE
F	1			CHANDELIER MAIN ENTRY, 2700K, LED. INCLUDE IN LIGHT FIXTURE PACKAGE
G	10			DECORATIVE OUTDOOR WALL SCONCE. INCLUDE IN LIGHT FIXTURE PACKAGE
H	5	COLUMBIA LIGHTING	AIRA-W-SD-LPA-3'-SDF-COLOR BY ARCHITECT-27K9-SD105-NDM-1C-UNV	3 FOOT WALL VANITY LIGHT FIXTURE, EXTRUDED ALUMINUM HOUSING, SOFT DIFFUSE ACRYLIC EXTRUDED LENS, LED, 2700K, DIRECT/INDIRECT, UNIVERSAL VOLTAGE, 3150 LUMENS, 25.8 WATTS, FINISH AND CROSS BAR COLORS BY ARCHITECT
L	3			SURFACE MOUNT LOW PROFILE, DECORATIVE ROOM LIGHT, 2700K, LED. INCLUDE LIGHT FIXTURE PACKAGE
M	1			SURFACE MOUNT LOW PROFILE, DECORATIVE ROOM LIGHT FOR LIVING ROOM, 2700K, LED. INCLUDE IN LIGHT FIXTURE PACKAGE
N	2			SURFACE MOUNT LOW PROFILE, DECORATIVE ROOM LIGHT FOR DINING ROOM, 2700K, LED. INCLUDE IN LIGHT FIXTURE PACKAGE
O	1			SURFACE MOUNT LOW PROFILE, LED, 2700, 1100 LUMENS, WHITE, 13.1 WATTS FOR STAIRS. INCLUDE IN LIGHT FIXTURE PACKAGE
P	3			PENANT MOUNT LOW PROFILE, DECORATIVE ROOM LIGHT FOR KITCHEN BAR, 2700K, LED. INCLUDE IN LIGHT FIXTURE PACKAGE
Grand total: 112				

REVISION SCHEDULE

Revision Number	Revision Description	Revision Date
1	BID DRAWINGS	04/22/26

NOTE:

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Professional Engineer (Electrical) MATTHEW H. GRAY 23863 WYOMING 06-22-2026

NEW RECTORY AT HOLY SPIRIT CATHOLIC COMMUNITY

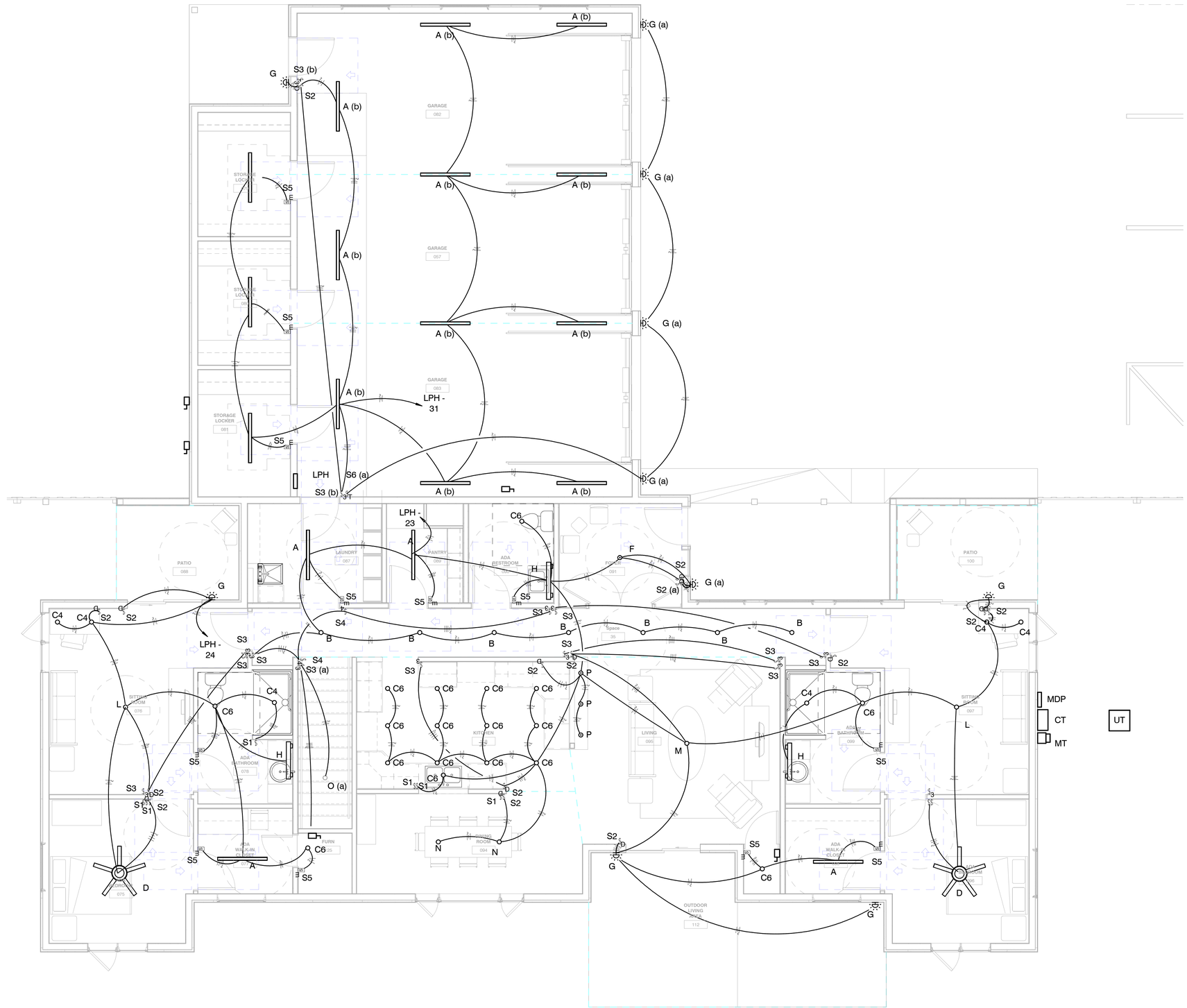
ROCK SPRINGS, WYOMING

APN: 03-HSCC-26
Date Issued: 06-22-26
Drawn By: MHG
Checked By: MHG

Sheet Title: BASEMENT - LIGHTING PLAN AND SCHEDULES

Sheet Number: E-200

6/17/2026 11:15:01 AM
Project Status



1 FIRST FLOOR - LIGHTING PLAN
1/4" = 1'-0"

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NEW RECTORY AT HOLY SPIRIT CATHOLIC COMMUNITY

ROCK SPRINGS, WYOMING

REVISION SCHEDULE

Revision Number	Revision Description	Revision Date
1	BID DRAWINGS	04/22/26

APN: 03-HSCC-26 **Date Issued:** 06-22-26

Drawn By: MHG **Checked By:** MHG

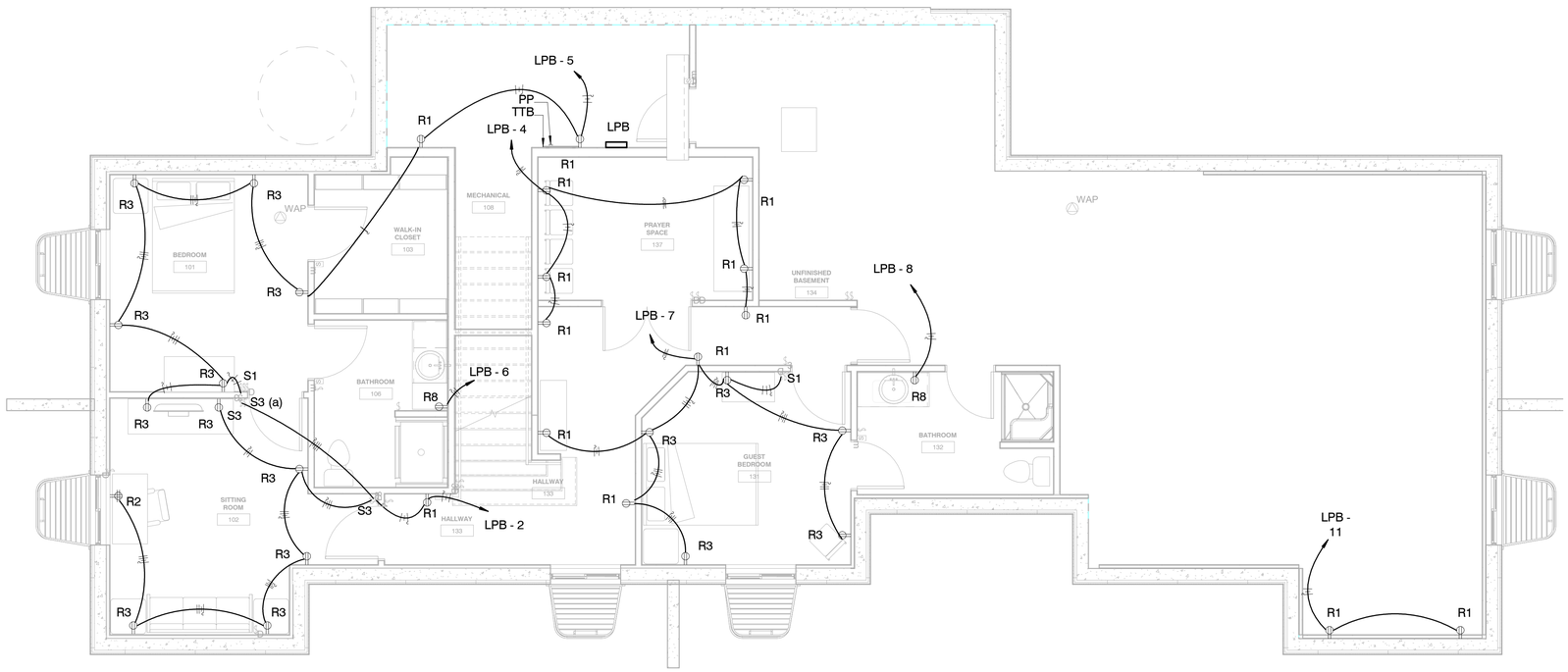
Sheet Title: MAIN LEVEL - LIGHTING PLAN

Sheet Number: E-201

NOTE:

THE ORIGINAL DRAWINGS FOR THIS PROJECT ARE 36" X 24". IF YOU HAVE A SMALLER SET, IT HAS BEEN REDUCED AND DRAWING SCALES ARE NOT VALID.

6/17/2026 11:15:01 AM
Project Status



1 BASEMENT - POWER PLAN
1/4" = 1'-0"

ELECTRICAL FIXTURE SCHEDULE

Type Mark	Count	Manufacturer	Model	Description
EH	1			J-BOX CONNECTION FOR FAN HOOD AND LIGHT
R1	23	HUBBELL	CR15TR	NEMA 5-15R, RECEPTACLE, MOUNT AT 1'4" AFF TO CENTER, TAMPER RESISTANT, COLOR BY ARCHITECT
R2	3	HUBBELL	TWO CR15TR	TWO NEMA 5-15R, RECEPTACLE, MOUNT AT 1'4" AFF TO CENTER, TAMPER RESISTANT, COLOR BY ARCHITECT
R3	49	HUBBELL	CR15TR	NEMA 5-15R, RECEPTACLE, MOUNT AT 1'4" AFF TO CENTER, TAMPER RESISTANT, COLOR BY ARCHITECT. TOP HALF OF RECEPTACLE SWITCHED BY SNAP SWITCH AT DOOR
R4	1	HUBBELL	9430	120/240 VOLT, 30 AMP DRYER RECEPTACLE. MATCH PLUG CONFIGURATION TYPE. 30" AFF TO CENTER. COLOR BY ARCHITECT
R6	11	HUBBELL	CR20TR	NEMA 5-20R, RECEPTACLE, MOUNT AT 2'0"" AFF TO CENTER, TAMPER RESISTANT, COLOR BY ARCHITECT. IN USE WEATHERPROOF COVER
R7	1	HUBBELL	CR20TR	DUPLEX RECEPTACLE FOR CLOTHES WASHER, MOUNT AT 30" AFF TO CENTER. COLOR BY ARCHITECT.
R8	6	HUBBELL	CR20TR	NEMA 5-20R, RECEPTACLE, MOUNT 10" TO CENTER ABOVE COUNTER, TAMPER RESISTANT. COLOR BY ARCHITECT
R9	1	HUBBELL	9450	NEMA 14-50R RANGE RECEPTACLE, MOUNT AT 1'6" AFF
R10	1	HUBBELL	CR20TR	DUPLEX RECEPTACLE FOR REFRIGERATOR, MOUNT AT 30" AFF TO CENTER. TAMPER RESISTANT. COLOR BY ARCHITECT
R11	1	HUBBELL	CR20TR	DUPLEX RECEPTACLE FOR DISHWASHER, PROVIDE MATCHING PLUG ON DISHWASHER PROVIDED PIG TAIL IF REQUIRED, MOUNT AT 1'4" AFF TO CENTER
R12	9	HUBBELL	CR20TR	NEMA 5-20R KITCHEN RECEPTACLE, MOUNT 10" TO CENTER ABOVE COUNTER, TAMPER RESISTANT. COLOR BY ARCHITECT
R13	10	HUBBELL	CR20TR	NEMA 5-20R RECEPTACLE, MOUNT 2'0" TO CENTER AFF, TAMPER RESISTANT. COLOR BY ARCHITECT
R14	3	HUBBELL	CR20TR	NEMA 5-20R RECEPTACLE FOR OVERHEAD ROLLING DOOR MOTOR. MOUNT AT 12'-6", TAMPER RESISTANT, COLOR BY ARCHITECT
R15	2	HUBBELL	CR20TR	NEMA 5-20R RECEPTACLE, MOUNT 1'4" TO CENTER AFF, TAMPER RESISTANT. COLOR BY ARCHITECT
Grand total: 122				

ELECTRICAL EQUIPMENT SCHEDULE

Type Mark	Count	Manufacturer	Model	Description
CT	1			CT CAN WITH CT'S, CAN TYPE AND SIZE AS REQUIRED BY THE UTILITY COMPANY
D23	2	SQUARE D		240 VOLT, 1 PHASE, 30 AMP, NEMA 3R FUSED DISCONNECT. FUSE WITH 2 - FRN-R FUSES TO MATCH EQUIPMENT REQUIREMENTS
D23R	2	SQUARE D		240 VOLT, 1 PHASE, 30 AMP, NEMA 3R FUSED DISCONNECT. FUSE WITH 2 - FRN-R FUSES TO MATCH EQUIPMENT REQUIREMENTS
D26	1	SQUARE D		240 VOLT, 1 PHASE, 60 AMP, NEMA 1 FUSED DISCONNECT. FUSE WITH 2 - FRN-R FUSES TO MATCH EQUIPMENT REQUIREMENTS
LPB	1	SQUARE D	LOAD CENTER	120/208V SURFACE MOUNT PANELBOARD WITH MAIN LUGS ONLY
LPH	1	SQUARE D	LOAD CENTER	120/208V RECESSED MOUNT PANELBOARD WITH MAIN LUGS ONLY
MDP	1	SQUARE D	LOAD CENTER	120/208V SURFACE MOUNT PANELBOARD WITH MAIN LUGS ONLY
MT	1			NEW METER, PROVIDE METER CAN AS REQUIRED BY THE UTILITY COMPANY
UT	1			UTILITY TRANSFORMER 120/240 VOLT, 1 PHASE
Grand total: 11	11			

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Professional Engineer (Electrical) MATTHEW H. GRAY 06-22-2026 WYOMING

REVISION SCHEDULE

Revision Number	Revision Description	Revision Date
1	BID DRAWINGS	04/22/26

NOTE:

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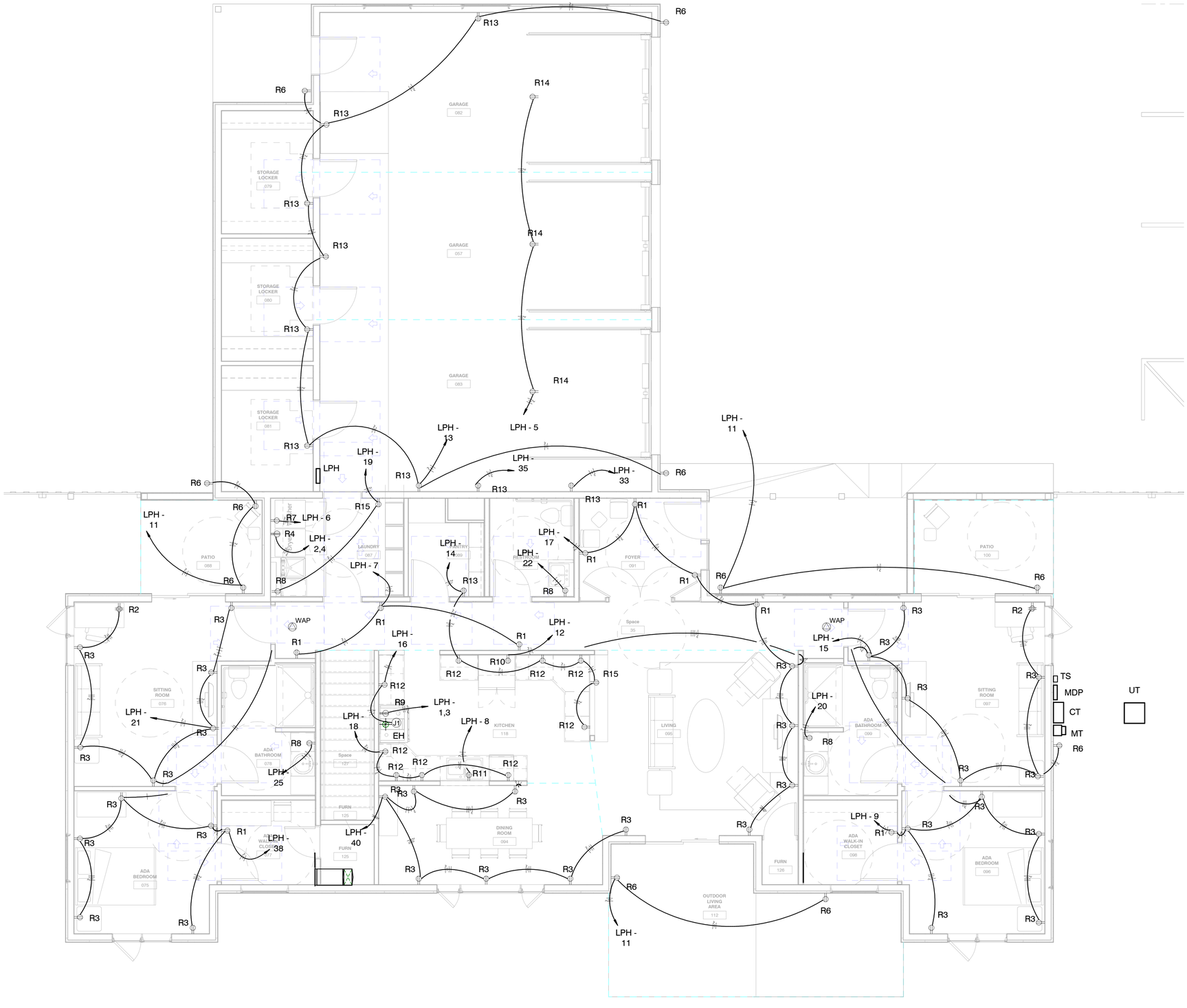
NEW RECTORY AT HOLY SPIRIT CATHOLIC COMMUNITY

ROCK SPRINGS, WYOMING

APN: 03-HSCC-26
Date Issued: 06-22-26
Drawn By: MHG
Checked By: MHG
Sheet Title: BASEMENT - POWER PLAN AND SCHEDULES
Sheet Number: E-300

6/17/2026 11:15:02 AM
Project Status



1 FIRST FLOOR - POWER PLAN
1/4" = 1'-0"

6/17/2026 11:15:03 AM
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Professional Engineer (Electrical) MARION H. GAY III 06-22-2026 WYOMING

NEW RECTORY AT HOLY SPIRIT CATHOLIC COMMUNITY

ROCK SPRINGS, WYOMING

REVISION SCHEDULE

Revision Number	Revision Description	Revision Date
1	BID DRAWINGS	04/22/26

APN: 03-HSCC-26
Date Issued: 06-22-26
Drawn By: MHG
Checked By: MHG
Sheet Title: MAIN LEVEL - POWER PLAN
Sheet Number: E-301

NOTE:
THE ORIGINAL DRAWINGS FOR THIS PROJECT ARE 36" X 24". IF YOU HAVE A SMALLER SET, IT HAS BEEN REDUCED AND DRAWING SCALES ARE NOT VALID.

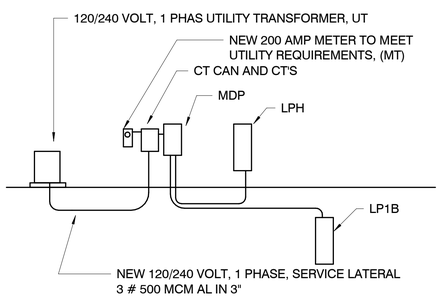
ELECTRICAL CIRCUIT SCHEDULE

Panel	Load Name	Circuit Number	Wire Size	Conduit Size	Voltage
MDP	LPB	2,4	2-#1, 1-#1, 1-#6	1 1/2"	240 V
MDP	LPH	1,3	2-#3/0, 1-#3/0, 1-#6	2"	240 V
MDP	SPARE FOR FUTURE GARAGE	5,7			240 V
MDP	Space	9,11			240 V
MDP	Space	6,8			240 V
MDP	Space	10,12			240 V
LPH	Receptacles ARC FAI;TGFCI BRKR	13	1-#8, 1-#8, 1-#8		120 V
LPH	CLOTHES WASHER, ARC FAULT/GFCI BRKR	6	1-#12, 1-#12, 1-#12		120 V
LPH	CLOTHES DRYER, GFCI BREAKER	2,4	2-#10, 1-#10, 1-#10		240 V
LPH	OVEN GFCI BREAKER	1,3	2-#6, 1-#6, 1-#10		240 V
LPH	DISH WASHER, ARC FAULT/GFCI BRKR	8	1-#12, 1-#12, 1-#12		120 V
LPH	GARBAGE DISPOSER, ARC FAULT/GFCI BRKR	10	1-#12, 1-#12, 1-#12		120 V
LPH	REFRIGERATOR, ARC FAULT/GFCI BRKR	12	1-#12, 1-#12, 1-#12		120 V
LPH	KITCHEN RECEPT, ARC FAULT/GFCI BRKR	16	1-#10, 1-#10, 1-#10		120 V
LPH	KITCHEN/PANTRY RECEPT, ARC FAULT/GFCI BRKR	14	1-#12, 1-#12, 1-#12		120 V
LPH	Receptacles ARC FAULT/GFCI BRKR	40	1-#10, 1-#10, 1-#10		120 V
LPH	Receptacles, ARC FAULT/GFCI BRKR	9	1-#10, 1-#10, 1-#10		120 V
LPH	Receptacles, ARC FAULT/GFCI BRKR	15	1-#8, 1-#8, 1-#8		120 V
LPH	Receptacle ADA BATHROOM ARC FAULT/GFCI BRKR	20	1-#12, 1-#12, 1-#12		120 V
LPH	Receptacle Room 091, 095, 35 ARC FAULT/GFCI BRKR	17	1-#10, 1-#10, 1-#10		120 V
LPH	Receptacles ARC FAULT/GFCI BRKR	11	1-#10, 1-#10, 1-#10		120 V
LPH	Receptacle ADA RESTROOM ARC FAULT/GFCI BRKR	22	1-#12, 1-#12, 1-#12		120 V
LPH	Room 075, 077 ARC FAULT/GFCI BREAKER	38	1-#10, 1-#10, 1-#10		120 V
LPH	Receptacle ADA BATHROOM, ARC FAULT/GFCI BRKR	25	1-#12, 1-#12, 1-#12		120 V
LPH	Receptacle Space 35, ARC FAULT/GFCI BRKR	7	1-#14, 1-#14, 1-#14		120 V
LPH	GARAGE DOOR OPERATORS, ARC FAULT/GFCI BRKR	5	1-#8, 1-#8, 1-#8		120 V
LPH	Receptacle LAUNDRY ARC FAULT/GFCI BRKR	19	1-#12, 1-#12, 1-#12		120 V
LPH	LITES MAIN LEVEL ARC FAULT/GFCI BRKR	21	1-#10, 1-#10, 1-#10		120 V
LPH	MAIN LEVEL LIGHTS, ARC FAULT/GFCI BRKR	23	1-#10, 1-#10, 1-#10		120 V
LPH	MAIN LEVEL LIGHTS, ARC FAULT/GFCI BRKR	24	1-#14, 1-#14, 1-#14		120 V
LPH	SPARE ARC FAULT/GFCI BRKR	37			120 V
LPH	SPARE ARC FAUTL/GFCI BRKR	39			120 V
LPH	SPARE ARC FAULT/GFCI BRKR	41			120 V
LPH	CU-1	27,29	2-#12, 1-#12		240 V
LPH	CU-2	26,28	2-#12, 1-#12		240 V
LPH	IWH-1 AND IWH-2	30	1-#12, 1-#12, 1-#12		120 V
LPH	Receptacle KITCHEN ARCH FAULT/GFCI BRKR	18	1-#12, 1-#12, 1-#12		120 V
LPH	MAU-1	36	1-#12, 1-#12, 1-#12		120 V
LPH	EDH-1	32,34	2-#6, 1-#10		240 V
LPH	SPARE ARC FAULT/GFCI BRKR	42			120 V
LPH	079, 080, 081, 083, 082 ARC FAULT/GFCI BRKR	31	1-#12, 1-#12, 1-#12		120 V
LPH	Receptacle GARAGE 082 ARC FAULT/GFCI BRKR	33	1-#12, 1-#12, 1-#12		120 V
LPH	Receptacle GARAGE 057 ARC FAULT/GFCI BRKR	35	1-#12, 1-#12, 1-#12		120 V

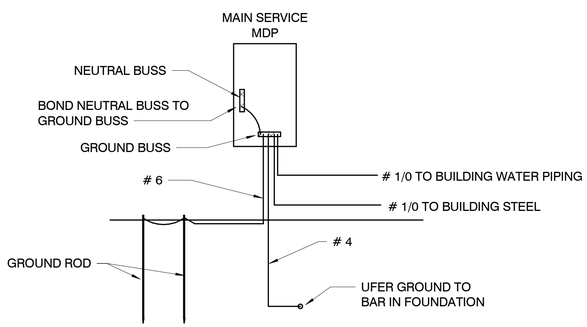
ELECTRICAL CIRCUIT SCHEDULE

Panel	Load Name	Circuit Number	Wire Size	Conduit Size	Voltage
LPB	Receptacle RR 132 GFCI/ARC FAULT BRKR	8	1-#12, 1-#12, 1-#12		120 V
LPB	Receptacle BATHROOM 106 GFCI/ARC FAULT BRKR	6	1-#12, 1-#12, 1-#12		120 V
LPB	Receptacles ARC FAULT/GFCI BRKR	7	1-#12, 1-#12, 1-#12		120 V
LPB	Receptacles ARC FAULT/GFCI BRKR	5	1-#10, 1-#10, 1-#10		120 V
LPB	Receptacle Room 133, 137 ARC FAULT/GFCI BRKR	4	1-#14, 1-#14, 1-#14		120 V
LPB	SMOKE DETECTORS, ARC FAULT/GFCI BRKR	10	1-#12, 1-#12, 1-#12		120 V
LPB	BASEMENT LITES, ARC FAULT/GFCI BRKR	3	1-#12, 1-#12, 1-#12		120 V
LPB	Receptacles Room 102, 133, ARC FAULT/GFCI BREAKER	2	1-#10, 1-#10, 1-#10		120 V
LPB	BASEMENT LITES, ARC FAULT/GFCI BRKR.	1	1-#12, 1-#12, 1-#12		120 V
LPB	NEW & FUTURE BASMT LITES, ARC FAULT/GFCI BRKR	9	1-#12, 1-#12, 1-#12		120 V
LPB	FUTURE BASEMT RECEPTS, ARC FAUTT/GFCI BRKR	13	1-#10, 1-#10, 1-#10		120 V
LPB	FUTURE BASEMT ARC FAULT/GFCI BRKR	12	1-#12, 1-#12, 1-#12		120 V
LPB	FUTURE BASEMT RECEPTS, ARC FAULT/GFCI BRKR	15	1-#14, 1-#14, 1-#14		120 V
LPB	FUTURE BASEMT RECEPTS, ARC FAULT/GFCI BRKR	11	1-#8, 1-#8, 1-#8		120 V
LPB	SPARE ARC FAULT/GFCI BRKR	17			120 V
LPB	SPARE ARC FAULT/GFCI BRKR	19			120 V
LPB	SPARE ARC FAULT/GFCI BRKR	18			120 V
LPB	SPARE ARC FAULT/GFCI BRKR	20			120 V
LPB	SPARE ARC FAULT/GFCI BRKR	14			120 V
LPB	SPARE ARC FAULT/GFCI BRKR	16			120 V
LPB	PTAC-2	23,25	2-#14, 1-#14		240 V
LPB	PTAC-1	24,26	2-#14, 1-#14		240 V
LPB	FUR-2	21	1-#14, 1-#14, 1-#14		120 V
LPB	Space	33			120 V
LPB	Space	35			120 V
LPB	Space	37			120 V
LPB	Space	39			120 V
LPB	Space	41			120 V
LPB	Space	34			120 V
LPB	Space	36			120 V
LPB	Space	38			120 V
LPB	Space	40			120 V
LPB	Space	42			120 V
LPB	SPARE ARC FAULT/GFCI BRKR	22			120 V
LPB	CU-3	27,29	2-#12, 1-#12		240 V
LPB	FURNACE F-3	28	1-#12, 1-#12, 1-#12		120 V
LPB	ECH-1	30	1-#14, 1-#14, 1-#14		120 V
LPB	ECH-1	31	1-#12, 1-#12, 1-#12		120 V
LPB	FUR-1	32	1-#14, 1-#14, 1-#14		120 V
CT	MT	1	2-#10, 1-#10, 1-#10	1"	240 V
CT	MDP	2	2-#350, 1-#350, 1-#4	3"	240 V

Grand total: 84



2 ELECTRICAL ONE LINE
No Scale



1 GROUNDING ONE LINE
No Scale

INDIAN PAINTBRUSH ARCHITECTURE, LLC
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REGISTERED Professional Engineer MARION H. GAY 06-22-2026 WYOMING

REVISION SCHEDULE

Revision Number	Revision Description	Revision Date
1	BID DRAWINGS	04/22/26

NOTE:

THE ORIGINAL DRAWINGS FOR THIS PROJECT ARE 36" X 24". IF YOU HAVE A SMALLER SET, IT HAS BEEN REDUCED AND DRAWING SCALES ARE NOT VALID.

NEW RECTORY AT HOLY SPIRIT CATHOLIC COMMUNITY

ROCK SPRINGS, WYOMING

APN: 03-HSCC-26 **Date Issued:** 06-22-26

Drawn By: MHG **Checked By:** MHG

Sheet Title: POWER DETAILS AND SCHEDULES

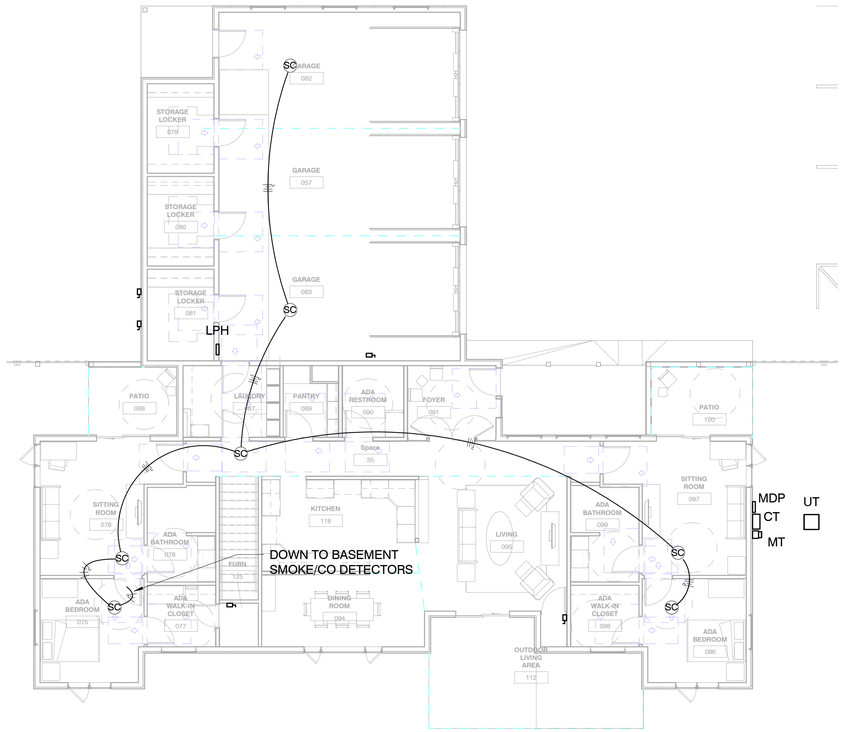
Sheet Number: E-302

6/17/2026 11:15:03 AM
Project Status

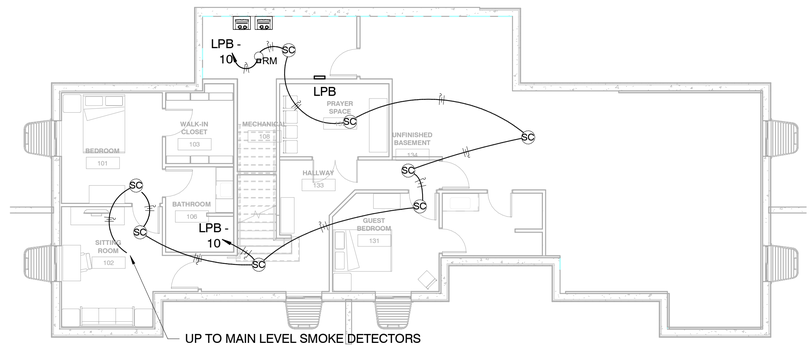
FIRE ALARM DEVICE SCHEDULE

Type Mark	Count	Manufacturer	Model	Description
RM	1	KIDDE	CO120X	RELAY MODULE TIED TO SMOKE AND CARBON MONOXIDE CIRCUIT. PROVICE 3 WIRE LOW VOLTAGE FROM RELAY TO BUILDING PATCH PANEL FOR REMOTE ALARM. IT CONNECTION FOR REMOTE ALARM WHEN REQUIRED
SC	15	KIDDE	P4010ACS CO-WF	UL LISTED COMBINATION SMOKE DETECTOR AND CARBON MONOXIDE DETECTOR WITH INTERCONNECTED ALARM. WITH REMOTE WF NOTIFICATION. 10 YEAR BATTERY LIFE

Grand total: 16



2 FIRST FLOOR - FIRE ALARM PLAN
1/8" = 1'-0"



1 BASEMENT - FIRE ALARM PLAN
1/8" = 1'-0"

INDIAN PAINTBRUSH ARCHITECTURE, LLC
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Professional Engineer (Electrical) MARTON H. GAL 06-22-2026 WYOMING

REVISION SCHEDULE

Revision Number	Revision Description	Revision Date
1	BID DRAWINGS	04/22/26

NEW RECTORY AT HOLY SPIRIT CATHOLIC COMMUNITY

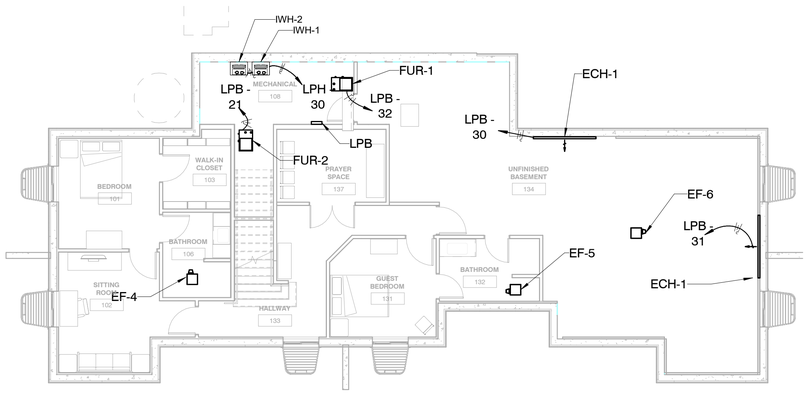
ROCK SPRINGS, WYOMING

APN: 03-HSCC-26
Date Issued: 06-22-26
Drawn By: MHG
Checked By: MHG
Sheet Title: FIRE ALARM PLANS AND SCHEDULES
Sheet Number: E-400

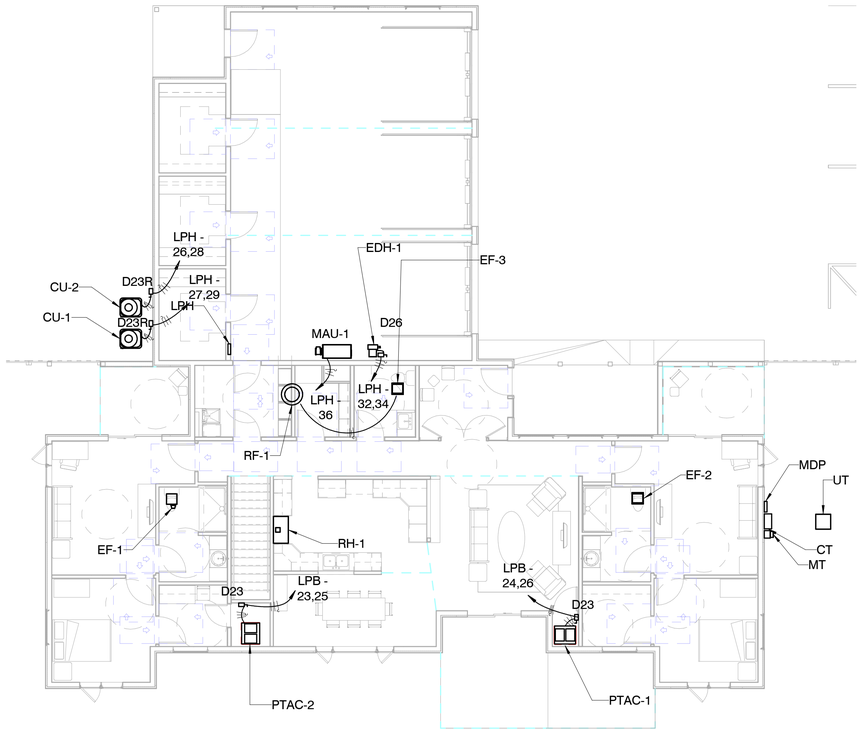
NOTE:

THE ORIGINAL DRAWINGS FOR THIS PROJECT ARE 36" X 24". IF YOU HAVE A SMALLER SET, IT HAS BEEN REDUCED AND DRAWING SCALES ARE NOT VALID.

6/17/2026 11:15:04 AM
Project Status



2 BASEMENT - HVAC ELECTRICAL PLAN
1/8" = 1'-0"



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

MECHANICAL EQUIPMENT SCHEDULE

Type Mark	Count	Description
CU-1	1	CONDENSING UNIT BY MC, WIRED BY EC
CU-2	1	CONDENSING UNIT BY MC, WIRED BY EC
ECH-1	2	ELECTRIC COVE HEATER PROVIDED AND INSTALLED BY MC, WIRED BY EC. EC TO PROVIDE Sto FOR DISCONNECTION AND OVERLOAD PROTECTION. TO BE REMOVED FOR FUTURE BASEMENT CONSTRUCTION
EDH-1	1	ELECTRIC DUCT HEATER BY MC, WIRED BY EC
EF-1	1	EXHAUST FAN BY MC, WIRE BY EC, WIRE TO RESTROOM LIGHT CIRCUIT AND SWITCH
EF-2	1	EXHAUST FAN BY MC, WIRE BY EC, WIRE TO RESTROOM LIGHT CIRCUIT AND SWITCH
EF-3	1	EXHAUST FAN BY MC, WIRE BY EC, WIRE TO RESTROOM LIGHT CIRCUIT AND SWITCH
EF-4	1	EXHAUST FAN BY MC, WIRE BY EC, WIRE TO RESTROOM LIGHT CIRCUIT AND SWITCH
EF-5	1	EXHAUST FAN BY MC, WIRE BY EC, WIRE TO RESTROOM LIGHT CIRCUIT AND SWITCH
EF-6	1	EXHAUST FAN BY MC, WIRE BY EC, EC TO PROVIDE WALL SWITCH FOR EXHAUST FAN CONTROL
FUR-1	1	FURNACE BY MC, WIRED BY EC. EC SHALL PROVIDE AND WIRE Sto FOR OVERLOAD PROTECTION AND DISCONNECTION
FUR-2	1	FURNACE BY MC, WIRED BY EC. EC SHALL PROVIDE AND WIRE Sto FOR OVERLOAD PROTECTION AND DISCONNECTION
MAU-1	1	MAKEUP AIR SYSTEM BY MC, WIRED BY EC. EC TO PROVIDE AND WIRE Sto FOR OVERLOAD PROTECTION AND DISCONNECTION
PTAC-1	1	UNIT BY MC, WIRED BY EC
PTAC-2	1	UNIT BY MC, WIRED BY EC
RF-1	1	EXHAUST FAN BY MC, WIRED BY EC. FAN TO RUN AT ALL TIMES. PROVIDE Sto FOR OVERLOAD PROTECTION AND DISCONNECTION
RH-1	1	RANGE HOOD

Grand total: 18

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Professional Engineer (Electrical) MICHAEL H. GRAF 06-22-2026 WYOMING

REVISION SCHEDULE

Revision Number	Revision Description	Revision Date
1	BID DRAWINGS	04/22/26

NOTE:
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NEW RECTORY AT HOLY SPIRIT CATHOLIC COMMUNITY

ROCK SPRINGS, WYOMING

APN: 03-HSCC-26
Date Issued: 06-22-26
Drawn By: MHG
Checked By: MHG
Sheet Title: HVAC ELECTRICAL PLANS AND SCHEDULES
Sheet Number: E-500

6/17/2026 11:15:04 AM
Project Status

Branch Panel: MDP

Location: SITTING ROOM 097
Supply From: CT
Mounting: SURFACE
Enclosure: NEMA 3R

Volts: 120/240 Single
Phases: 1
Wires: 3

A.I.C. Rating: 14000
Mains Type:
Mains Rating: 400 A
MCB Rating: 0 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		Poles	Trip	Circuit Description	CKT
1	LPH	200 A	2	27438...	10257...			2	125 A	LPB	2
3						26754...	11324...				4
5	SPARE FOR FUTURE GARAGE	100 A	2	0 VA	--			2	--	Space	6
7						0 VA	--				8
9	Space	--	2	--	--			2	--	Space	10
11						--	--				12
		Total Load:		37682 VA		38070 VA					
		Total Amps:		314 A		317 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Appliance - Dwelling Unit	1200 VA	100.00%	1200 VA		
Cooling	7680 VA	100.00%	7680 VA	**Total Conn. Load:**	75752 VA
HVAC	93 VA	100.00%	93 VA	**Total Est. Demand:**	60185 VA
Heating	11491 VA	100.00%	11491 VA	**Total Conn.:**	316 A
Lighting	2330 VA	125.00%	2912 VA	**Total Est. Demand:**	251 A
Motor	3249 VA	108.13%	3513 VA		
Other	581 VA	100.00%	581 VA		
Power	3720 VA	100.00%	3720 VA		
Receptacle	42940 VA	61.64%	26470 VA		
Load Classification	3840 VA	100.00%	3840 VA		

Notes:

Branch Panel: LPB

Location: PRAYER SPACE 137
Supply From: MDP
Mounting: surface
Enclosure: Type 1

Volts: 120/240 Single
Phases: 1
Wires: 3

A.I.C. Rating: 10000
Mains Type:
Mains Rating: 125 A
MCB Rating: 0 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		Poles	Trip	Circuit Description	CKT
1	BASEMENT LITES, ARC FAULT/GFCI BRKR.	20 A	1	175 VA	1440 VA			1	15 A	Receptacles Room 102, 133, ARC FAULT/GFCI...	2
3	BASEMENT LITES, ARC FAULT/GFCI BRKR	20 A	1			290 VA	1080 VA	1	15 A	Receptacle Room 133, 137 ARC FAULT/GFCI...	4
5	Receptacles ARC FAULT/GFCI BRKR	15 A	1	1440 VA	180 VA			1	20 A	Receptacle BATHROOM 106 GFCI/ARC FAULT...	6
7	Receptacles ARC FAULT/GFCI BRKR	15 A	1			1440 VA	180 VA	1	20 A	Receptacle RR 132 GFCI/ARC FAULT BRKR	8
9	NEW & FUTURE BASMT LITES, ARC FAULT/GF...	15 A	1	549 VA	401 VA			1	20 A	SMOKE DETECTORS, ARC FAULT/GFCI BRKR	10
11	FUTURE BASEMT RECEPTS, ARC FAULT/GFCI...	15 A	1			1440 VA	180 VA	1	20 A	FUTURE BASEMT ARC FAULT/GFCI BRKR	12
13	FUTURE BASEMT RECEPTS, ARC FAUTT/GFCI...	15 A	1	1440 VA	0 VA			1	15 A	SPARE ARC FAULT/GFCI BRKR	14
15	FUTURE BASEMT RECEPTS, ARC FAULT/GFCI...	15 A	1			1080 VA	0 VA	1	15 A	SPARE ARC FAULT/GFCI BRKR	16
17	SPARE ARC FAULT/GFCI BRKR	20 A	1	0 VA	0 VA			1	15 A	SPARE ARC FAULT/GFCI BRKR	18
19	SPARE ARC FAULT/GFCI BRKR	20 A	1			0 VA	0 VA	1	15 A	SPARE ARC FAULT/GFCI BRKR	20
21	FUR-2	15 A	1	1056 VA	0 VA			1	20 A	SPARE ARC FAULT/GFCI BRKR	22
23	PTAC-2	15 A	2			960 VA	960 VA	2	15 A	PTAC-1	24
25				960 VA	960 VA						26
27	CU-3	20 A	2			1080 VA	1012 VA	1	20 A	FURNACE F-3	28
29				1080 VA	900 VA			1	15 A	ECH-1	30
31	ECH-1	15 A	1			900 VA	1056 VA	1	15 A	FUR-1	32
33	Space	--	1	--	--			1	--	Space	34
35	Space	--	1			--	--	1	--	Space	36
37	Space	--	1	--	--			1	--	Space	38
39	Space	--	1			--	--	1	--	Space	40
41	Space	--	1	--	--			1	--	Space	42
		Total Load:		10257 VA		11324 VA					
		Total Amps:		85 A		94 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Cooling	2160 VA	100.00%	2160 VA		
HVAC	93 VA	100.00%	93 VA	**Total Conn. Load:**	21580 VA
Heating	1800 VA	100.00%	1800 VA	**Total Est. Demand:**	22053 VA
Lighting	846 VA	125.00%	1057 VA	**Total Conn.:**	90 A
Motor	3199 VA	108.25%	3463 VA	**Total Est. Demand:**	92 A
Other	401 VA	100.00%	401 VA		
Power	0 VA	0.00%	0 VA		
Receptacle	9900 VA	100.00%	9900 VA		
Load Classification	3840 VA	100.00%	3840 VA		

Notes:

Branch Panel: LPH

Location: GARAGE 083
Supply From: MDP
Mounting: Recessed
Enclosure: Type 1

Volts: 120/240 Single
Phases: 1
Wires: 3

A.I.C. Rating: 10000
Mains Type:
Mains Rating: 200 A
MCB Rating: 0 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		Poles	Trip	Circuit Description	CKT
1	OVEN GFCI BREAKER	50 A	2	4160 VA	2880 VA			2	30 A	CLOTHES DRYER, GFCI BREAKER	2
3						4160 VA	2880 VA				4
5	GARAGE DOOR OPERATORS, ARC FAULT/GF...	20 A	1	1800 VA	1200 VA			1	20 A	CLOTHES WASHER, ARC FAULT/GFCI BRKR	6
7	Receptacle Space 35, ARC FAULT/GFCI BRKR	15 A	1			540 VA	1200 VA	1	20 A	DISH WASHER, ARC FAULT/GFCI BRKR	8
9	Receptacles, ARC FAULT/GFCI BRKR	15 A	1	1080 VA	0 VA			1	20 A	GARBAGE DISPOSER, ARC FAULT/GFCI BRKR	10
11	Receptacles ARC FAULT/GFCI BRKR	20 A	1			1260 VA	1200 VA	1	20 A	REFRIGERATOR, ARC FAULT/GFCI BRKR	12
13	Receptacles ARC FAI;TGFCI BRKR	20 A	1	1800 VA	1080 VA			1	20 A	KITCHEN/PANTRY RECEPT, ARC FAULT/GFCI...	14
15	Receptacles, ARC FAULT/GFCI BRKR	15 A	1			1620 VA	2940 VA	1	20 A	KITCHEN RECEPT, ARC FAULT/GFCI BRKR	16
17	Receptacle Room 091, 095, 35 ARC FAULT/GFCI...	15 A	1	1440 VA	720 VA			1	20 A	Receptacle KITCHEN ARCH FAULT/GFCI BRKR	18
19	Receptacle LAUNDRY ARC FAULT/GFCI BRKR	20 A	1			360 VA	180 VA	1	20 A	Receptacle ADA BATHROOM ARC FAULT/GFCI...	20
21	LITES MAIN LEVEL ARC FAULT/GFCI BRKR	15 A	1	1440 VA	180 VA			1	20 A	Receptacle ADA RESTROOM ARC FAULT/GFCI...	22
23	MAIN LEVEL LIGHTS, ARC FAULT/GFCI BRKR	15 A	1			721 VA	177 VA	1	15 A	MAIN LEVEL LIGHTS, ARC FAULT/GFCI BRKR	24
25	Receptacle ADA BATHROOM, ARC FAULT/GFCI...	20 A	1	180 VA	1080 VA			2	20 A	CU-2	26
27	CU-1	20 A	2			1680 VA	1080 VA				28
29				1680 VA	960 VA			1	20 A	IWH-1 AND IWH-2	30
31	079, 080, 081, 083, 082 ARC FAULT/GFCI BRKR	20 A	1			636 VA	5000 VA	2	60 A	EDH-1	32
33	Receptacle GARAGE 082 ARC FAULT/GFCI BRKR	20 A	1	180 VA	5000 VA						34
35	Receptacle GARAGE 057 ARC FAULT/GFCI BRKR	20 A	1			180 VA	180 VA	1	20 A	MAU-1	36
37	SPARE ARC FAULT/GFCI BRKR	15 A	1	0 VA	1080 VA			1	15 A	Room 075, 077 ARC FAULT/GFCI BREAKER	38
39	SPARE ARC FAUTL/GFCI BRKR	15 A	1			0 VA	1260 VA	1	15 A	Receptacles ARC FAULT/GFCI BRKR	40
41	SPARE ARC FAULT/GFCI BRKR	15 A	1	0 VA	0 VA			1	15 A	SPARE ARC FAULT/GFCI BRKR	42
		Total Load:		27438 VA		26754 VA					
		Total Amps:		229 A		223 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Appliance - Dwelling Unit	1200 VA	100.00%	1200 VA		
Cooling	5520 VA	100.00%	5520 VA	**Total Conn. Load:**	54192 VA
Heating	10000 VA	100.00%	10000 VA	**Total Est. Demand:**	43075 VA
Lighting	1484 VA	125.00%	1855 VA	**Total Conn.:**	226 A
Motor	50 VA	112.50%	56 VA	**Total Est. Demand:**	179 A
Other	180 VA	100.00%	180 VA		
Power	3720 VA	100.00%	3720 VA		
Receptacle	33040 VA	65.13%	21520 VA		

Notes:

NOTE: EC SHALL COMPLY WITH NEC110.22a "EACH DISCONNECTING MEANS SHALL BE LEGIBLY MARKED TO INDICATE ITS PURPOSE UNLESS LOCATED AND ARRANGED SO THE PURPOSE IS EVIDENT. THE MARKING SHALL BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED." AND 408.4A, "CIRCUIT DIRECTORY OR CIRCUIT IDENTIFICATION. EVERY CIRCUIT AND CIRCUIT MODIFICATIONS SHALL BE LEGIBLY IDENTIFIED AS TO ITS CLEAR, EVIDENT AND SPECIFIC PURPOSE OR USE. ETC." EC SHALL MEET ALL REQUIREMENTS OF THESE ENTIRE SECTIONS. SCHEDULES SHOWN ON THESE PLANS ARE SHORT HAND DESIGNATIONS FOR THE DESIGN AND ARE ONLY TO BE USED FOR CONSTRUCTION. FINAL SCHEDULES SHALL MEET THE REQUIREMENTS OF THE TWO CODE SECTIONS INDICATED IN THIS NOTE.

1 DIRECTIVE FOR PANEL SCHEDULES
No Scale

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PROFESSIONAL Engineer (Electrical) MARION H. GAY 14142 WYOMING 06-22-2026

REVISION SCHEDULE

Revision Number	Revision Description	Revision Date
1	BID DRAWINGS	04/22/26

NOTE:
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NEW RECTORY AT HOLY SPIRIT CATHOLIC COMMUNITY

ROCK SPRINGS, WYOMING

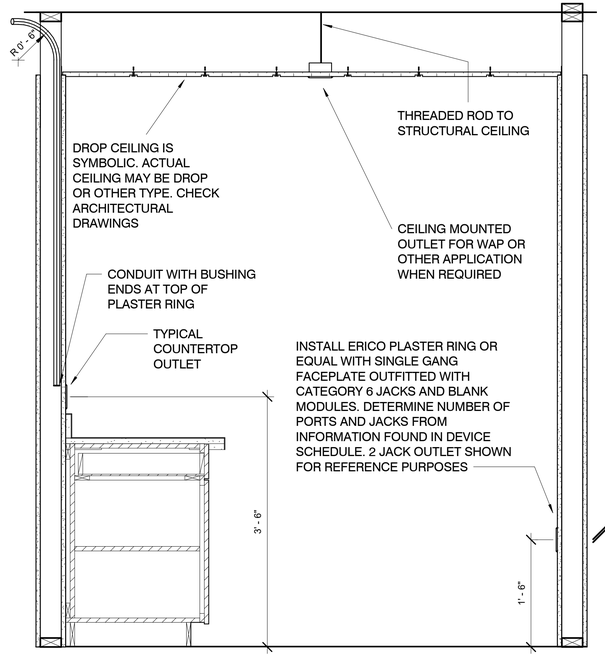
APN: 03-HSCC-26
Date Issued: 06-22-26
Drawn By: MHG
Checked By: MHG
Sheet Title: PANELBOARD SCHEDULES
Sheet Number: E-600

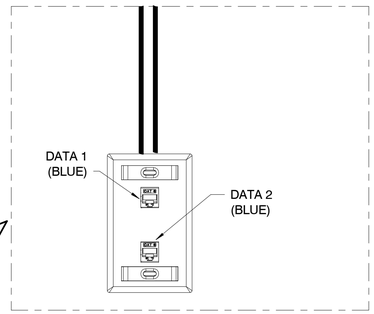
6/17/2026 11:15:05 AM
Project Status

DATA DEVICE SCHEDULE

Type Mark	Count	Description
PP	1	WALL MOUNT PATCH PANEL CAT6, 12 PORT, BLACK POWDER-COATED STEEL,WRITE-ON LABELS, 110 TYPE PUNCH DOWN
TS	1	LOCATION OF TELEPHONE SERVICE TO BUILDING
TTB	1	2'x4'x3/4" FIRE TREATED PLYWOOD TERMINAL BACKBOARD. RUN TWO CAT6 CABLES FROM BOARD TO TELEPHONE SERVICE ENTRANCE TS
WAP	4	SINGLE GANG CEILING MOUNTED 1 POE AND 1 DATA DROP LOCATION. RUN 2 - CAT 6 CABLE BACK TO PATCH PANEL IN ROOM 108, COLOR PURPLE FOR PoE AND BLUE FOR DATA, FACE PLATE COLOR TO BE SELECTED BY ARCHITECT

Grand total: 7





NOTE: ONLY CEILING WAP ARE SCHEDULED AT THIS TIME. WALL INFORMATION IS ONLY SHOWN IF ADDED IN THE FUTURE

1 DATA INSTALLATION, DETAIL USING PLASTER RINGS
1" = 1'-0"

GENERAL NOTES:

1. ONLY RUN CABLES EXPOSED WHEN THERE IS A DROP CEILING AVAILABLE. ALL OTHER CASES REQUIRE CONDUIT.
2. CONFORM TO BUILDING FORM WHEN ROUTING CONDUIT, ATTEMPTING TO AVOID UNSIGHTLY INSTALLATIONS. WHENEVER POSSIBLE, KEEP CONDUIT OUT OF SIGHT, BY RUNNING ALONG STRUCTURAL MEMBERS, AND OTHERWISE HIDING CONDUIT.
3. NEVER EXCEED 270 DEGREES WORTH OF BENDS IN ONE RUN OF CONDUIT.
4. ALWAYS CONFORM TO CABLE MANUFACTURERS MINIMUM BEND RADIUS REQUIREMENTS, AND NEVER EXCEED MAXIMUM RATING OF CABLE WHEN PULLING.
5. CABLE ROUTING SHALL BE PERFORMED IN A MANNER THAT MINIMIZES CABLE LENGTH. NEVER EXCEED 295 FT FOR HORIZONTAL CABLE.
6. ENSURE THAT CONDUIT IS NEVER FILLED PAST 40%.

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REVISION SCHEDULE

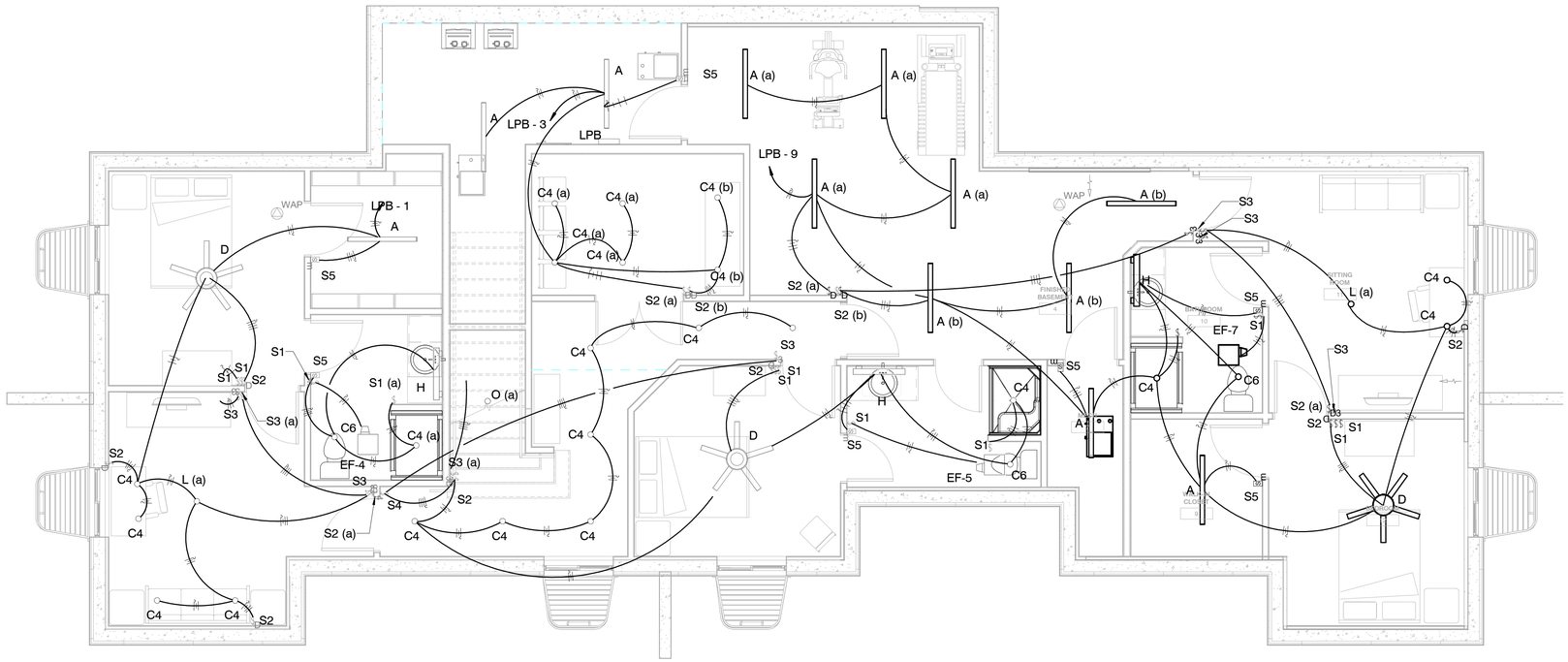
Revision Number	Revision Description	Revision Date
1	BID DRAWINGS	04/22/26

NEW RECTORY AT HOLY SPIRIT CATHOLIC COMMUNITY
ROCK SPRINGS, WYOMING

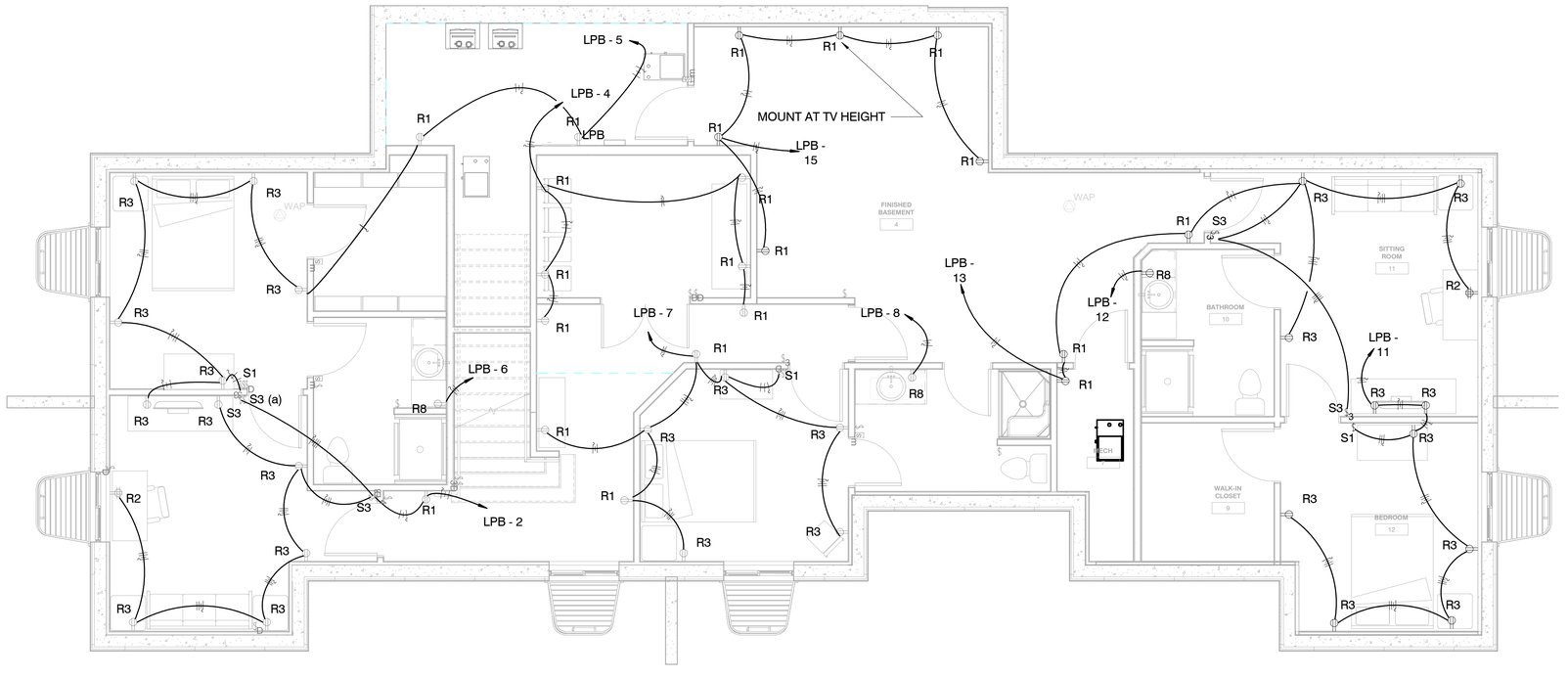
APN: 03-HSCC-26
Date Issued: 06-22-26
Drawn By: MHG
Checked By: MHG
Sheet Title: DATA DETAILS AND SCHEDULES
Sheet Number: E-700

NOTE:
THE ORIGINAL DRAWINGS FOR THIS PROJECT ARE 36" X 24". IF YOU HAVE A SMALLER SET, IT HAS BEEN REDUCED AND DRAWING SCALES ARE NOT VALID.

6/17/2026 11:15:05 AM
Project Status



2 BASEMENT - LIGHTING PLAN - FUTURE
1/4" = 1'-0"



1 BASEMENT - POWER PLAN - FUTURE
1/4" = 1'-0"

REVISION SCHEDULE		
Revision Number	Revision Description	Revision Date
1	BID DRAWINGS	04/22/26

NOTE:

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Professional Engineer (Electrical) MARION H. GLASS III 06-22-2026 WYOMING

NEW RECTORY AT HOLY SPIRIT CATHOLIC COMMUNITY

ROCK SPRINGS, WYOMING

APN: 03-HSCC-26
Date Issued: 06-22-26
Drawn By: Designer
Checked By: MHG
Sheet Title: FUTURE BASEMENT LIGHTING AND POWER PLANS
Sheet Number: E-800

6/17/2026 11:15:06 AM
Project Status

ELECTRICAL FIXTURE SCHEDULE - FUTURE

Type Mark	Count	Manufacturer	Model	Description
R1	9	HUBBELL	CR15TR	NEMA 5-15R, RECEPTACLE, MOUNT AT 1'4" AFF TO CENTER, TAMPER RESISTANT, COLOR BY ARCHITECT
R2	1	HUBBELL	TWO CR15TR	TWO NEMA 5-15R, RECEPTACLE, MOUNT AT 1'4" AFF TO CENTER, TAMPER RESISTANT, COLOR BY ARCHITECT
R3	10	HUBBELL	CR15TR	NEMA 5-15R, RECEPTACLE, MOUNT AT 1'4" AFF TO CENTER, TAMPER RESISTANT, COLOR BY ARCHITECT. TOP HALF OF RECEPTACLE SWITCHED BY SNAP SWITCH AT DOOR
R8	1	HUBBELL	CR20TR	NEMA 5-20R, RECEPTACLE, MOUNT 10" TO CENTER ABOVE COUNTER, TAMPER RESISTANT. COLOR BY ARCHITECT
Grand total: 21				

ELECTRICAL EQUIPMENT SCHEDULE - FUTURE

Type Mark	Count	Manufacturer	Model	Description
D23R	1	SQUARE D		240 VOLT, 1 PHASE, 30 AMP, NEMA 3R FUSED DISCONNECT. FUSE WITH 2 - FRN-R FUSES TO MATCH EQUIPMENT REQUIREMENTS

LIGHTING DEVICE SCHEDULE - FUTURE

Type Mark	Count	Manufacturer	Model	Description
S1	4	HUBBELL	1221	SINGLE POLE 120/277 VOLT, 20 AMP GENERAL DUTY, BACK AND SIDE WIRED, MOUNT AT 3'10" AFF TO CENTER
S2	5	LEGRAND	RH703PTUTC	120 VOLT LINE VOLTAGE DIMMER, 450 WATT MAXIMUM, UNIVERSAL DIMMING
S3	4	HUBBELL	1223	3-WAY 120/277 VOLT, 20 AMP GENERAL DUTY, BACK AND SIDE WIRED, MOUNT AT 3'10" AFF TO CENTER
S5	3	LEGRAND	DSW-301	DUAL TECHNOLOGY WALLBOX OCCUPANCY SENSOR
Grand total: 16				

LIGHTING FIXTURE SCHEDULE - FUTURE

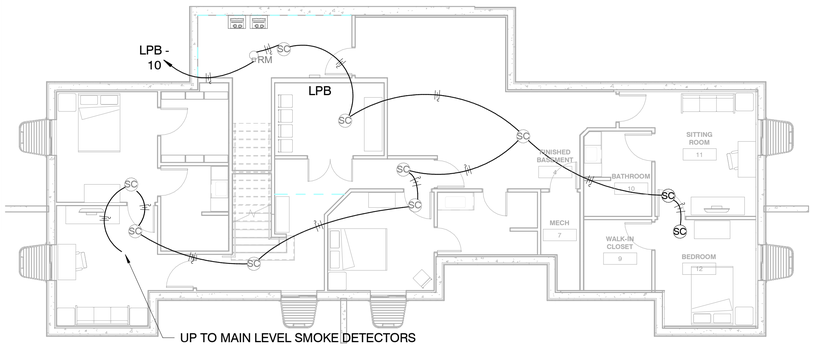
Type Mark	Count	Manufacturer	Model	Description
A	9	COLUMBIA LIGHTING	MPS-4-35-ML-C-W-ED-U	LINEAR LED STRIP LIGHT, 3500K, 4700 LUMENS, CURVED FROSTED ACRYLIC LENS, WIDE DISTRIBUTION, 0-10 VOLT DIMMING, UNIVERSAL VOLTAGE, 40.1 WATTS
C4	3	PRESCOLITE	LBSES-4RD-CS9-WH	SURFACE MOUNT LOW PROFILE, 4" ROUND, LED, 2700K (SWITCHABLE 2700/3000/3500/4000K), 750 LUMENS, WHITE, 9.9 WATTS, WET LOCATION LISTED
C6	1	PRESCOLITE	LBSES-6RD-CS9-WH	SURFACE MOUNT LOW PROFILE, 6" ROUND, LED, 2700K (SWITCHABLE 2700/3000/3500/4000K), 1100 LUMENS, WHITE, 13.1 WATTS
D	1			48" CEILING FAN WITH LIGHT. INCLUDE IN LIGHT FIXTURE PACKAGE
H	1	COLUMBIA LIGHTING	AIRA-W-SD-LPA-3'-SDF-COLOR BY ARCHITECT-27K9-SD105-NDM-1C-UNV	3 FOOT WALL VANITY LIGHT FIXTURE, EXTRUDED ALUMINUM HOUSING, SOFT DIFFUSE ACRYLIC EXTRUDED LENS, LED, 2700K, DIRECT/INDIRECT, UNIVERSAL VOLTAGE, 3150 LUMENS, 25.8 WATTS, FINISH AND CROSS BAR COLORS BY ARCHITECT
L	1			SURFACE MOUNT LOW PROFILE, DECORATIVE ROOM LIGHT, 2700K, LED. INCLUDE LIGHT FIXTURE PACKAGE
Grand total: 16				

FIRE ALARM DEVICE SCHEDULE - FUTURE

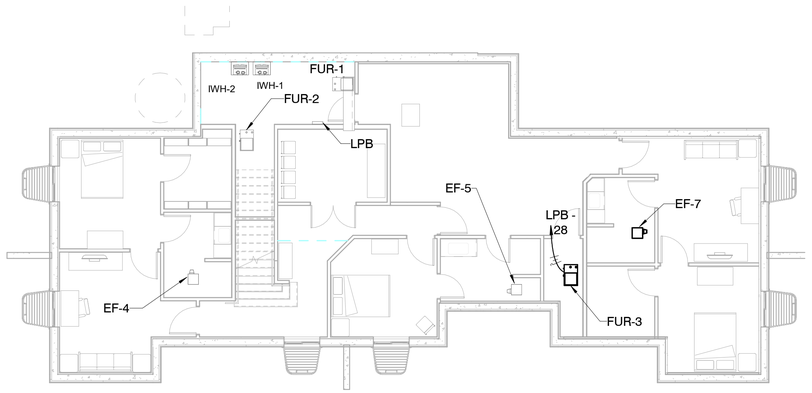
Type Mark	Count	Manufacturer	Model	Description
SC	2	KIDDE	P4010ACS CO-WF	UL LISTED COMBINATION SMOKE DETECTOR AND CARBON MONOXIDE DETECTOR WITH INTERCONNECTED ALARM. WITH REMOTE WF NOTIFICATION. 10 YEAR BATTERY LIFE
Grand total: 2				

MECHANICAL EQUIPMENT SCHEDULE - FUTURE

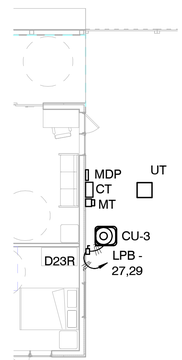
Type Mark	Count	Description
CU-3	1	CONDENSING UNIT BY MC, WIRED BY EC
EF-7	1	EXHAUST FAN BY MC, WIRE BY EC, WIRE TO RESTROOM LIGHT CIRCUIT AND SWITCH
FUR-3	1	FURNACE BY MC, WIRED BY EC. EC SHALL PROVIDE AND WIRE Sto FOR OVERLOAD PROTECTION AND DISCONNECTION
Grand total: 3		



1 BASEMENT - FIRE ALARM PLAN - FUTURE
1/8" = 1'-0"



2 BASEMENT - HVAC ELECTRICAL PLAN - FUTURE
1/8" = 1'-0"



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

REVISION SCHEDULE

Revision Number	Revision Description	Revision Date
1	BID DRAWINGS	04/22/26

NOTE:

THE ORIGINAL DRAWINGS FOR THIS PROJECT ARE 36" X 24". IF YOU HAVE A SMALLER SET, IT HAS BEEN REDUCED AND DRAWING SCALES ARE NOT VALID.

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NEW RECTORY AT HOLY SPIRIT CATHOLIC COMMUNITY

ROCK SPRINGS, WYOMING

APN: 03-HSCC-26
Date Issued: 06-22-26
Drawn By: Designer
Checked By: MHG
Sheet Title: FUTURE SCHEDULES, HVAC & FIRE ALARM PLANS
Sheet Number: E-801

6/17/2026 11:15:06 AM
Project Status