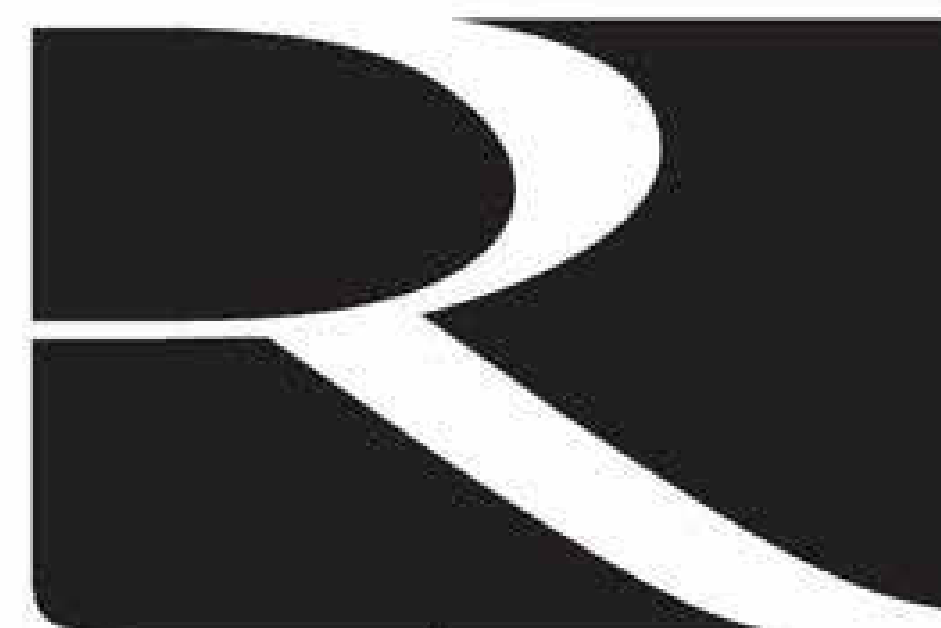


NEW DIRECTOR'S HOUSE MISSOURI STATE FAIRGROUNDS

SEDALIA, MO



Robert Rollings
Architects LLC

OWNER:

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

DEPARTMENT OF AGRICULTURE
MISSOURI STATE FAIRGROUNDS

PROJECT
MANAGEMENT:

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT,
DESIGN AND CONSTRUCTION

DESIGNER:

ROBERT ROLLINGS
ARCHITECTS, LLC

PROJECT NUMBER:

F2402-01

SITE NUMBER:

1501

ASSET NUMBER:

3511501149

SHEET NUMBER:

G-001

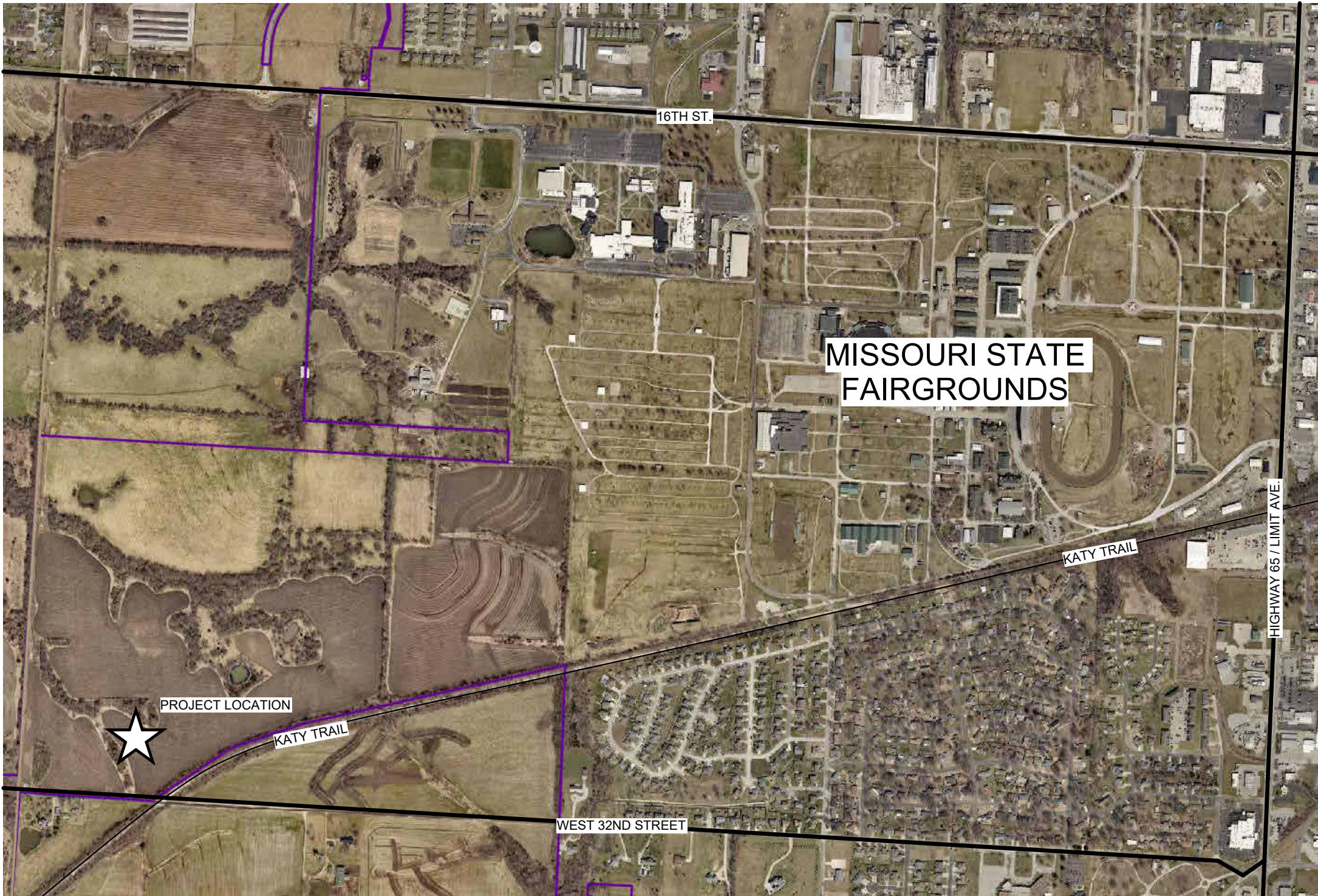
PAGE 1 OF 36
7/11/2025

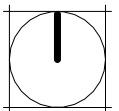
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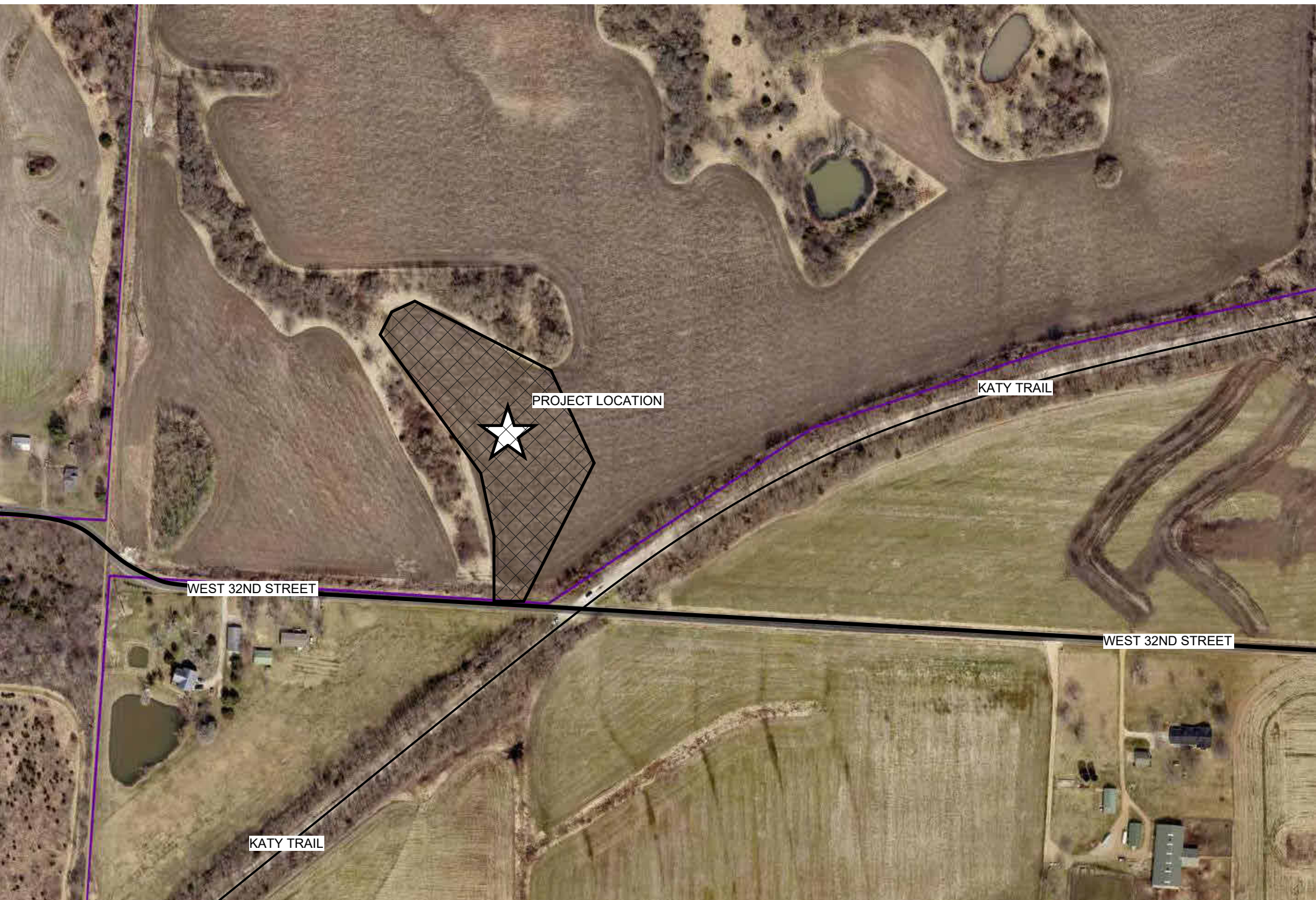
THESE DRAWINGS, ALONG WITH THE PROJECT SPECIFICATIONS, REPRESENT A UNIFIED SET OF CONSTRUCTION DOCUMENTS. ALL BIDDERS SHALL BE RESPONSIBLE FOR FAMILIARIZING THEMSELVES WITH ALL DRAWINGS IN THIS SET, REGARDLESS OF SHEET NUMBER AND DISCIPLINE, AND SHALL BE RESPONSIBLE FOR COORDINATING THEIR WORK WITH THE WORK OF OTHER TRADES. ANY APPARENT DISCREPANCIES BETWEEN DRAWINGS OR BETWEEN THE DRAWINGS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO BIDDING.

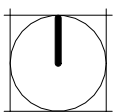
DO NOT BID FROM PARTIAL SETS OF BID DOCUMENTS.

BY SUBMITTING A BID, BIDDERS REPRESENT THAT THEY HAVE VISITED THE SITE, BECOME FAMILAR WITH THE BID DOCUMENTS IN THEIR ENTIRETY AND WITH LOCAL CONDITIONS UNDER WHICH THE WORKS IS TO BE PERFORMED AND HAVE CORRELATED THE BIDDER'S PERSONAL OBSERVATIONS WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.



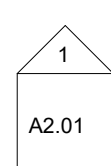
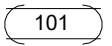
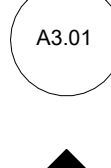



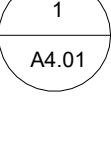
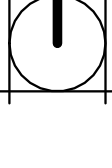
| | | |
|---|----------------|------------------|
|  | 3 | PROJECT LOCATION |
| G-002 | 1 1/2" = 1'-0" | |



| | | |
|---|----------------|--------------|
|  | 2 | PROJECT SITE |
| G-002 | 1 1/2" = 1'-0" | |

| | |
|-----------------|---------------------------|
| A-101 | |
| DISCIPLINE | SHEET IN SERIES |
| G GENERAL | 0 GENERAL INFORMATION |
| C CIVIL | 1 PLANS |
| D DEMOLITION | 2 EXTERIOR ELEVATIONS |
| S STRUCTURAL | 3 BUILDING SECTIONS |
| A ARCHITECTURAL | 4 LARGE SCALE VIEWS |
| Q EQUIPMENT | 5 DETAILS |
| M MECHANICAL | 6 SCHEDULES & DIAGRAMS |
| FG FUEL GAS | 7 REFLECTED CEILING PLANS |
| P PLUMBING | 8 STAIRS AND ELEVATORS |
| E ELECTRICAL | 9 3D REPRESENTATIONS |

| | |
|-------|--|
| 4 | SHEET NAMING CONVENTION |
| A1.01 | SHEET NAMES DO NOT DEFINE LIMITS OF WORK |

| | | |
|------------------------------------|---|--|
| DRAWING NUMBER | 4 | SHEET NAME WHERE DRAWING IS FOUND |
| | A1.01 | |
| EXTERIOR ELEVATION |  A2.01 | OFFICE 101 ROOM/SPACE NAME AND REF. NUMBER |
| |  101 | DOOR NUMBER |
| INTERIOR ELEVATION |  A3.01 | B WINDOW TYPE |
| |  G | KEYED NOTE |
| BUILDING SECTION OR DETAIL SECTION |  A3.01 | 6 EQUIPMENT NUMBER |
| |  6 | SPOT ELEVATION OR FLOOR ELEVATION |
| DETAILED SECTION OR PLAN CALL-OUT |  A4.01 |  PLAN NORTH |
| FIRE EXTINGUISHER CABINET | F.E.C. | C.J. CONTROL JOINT |

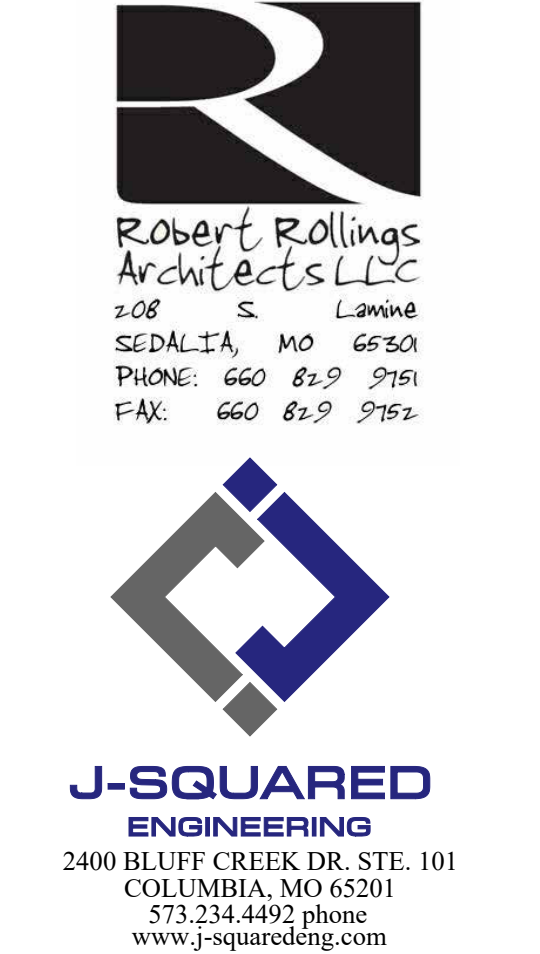
| SHEET ORDER | SHEET NUMBER | SHEET NAME |
|-------------|--------------|--|
| 1 | G-001 | COVER |
| 2 | G-002 | GENERAL INFORMATION |
| 3 | C-001 | CIVIL COVER SHEET |
| 4 | C-100 | EXISTING CONDITIONS & DEMOLITION PLAN |
| 5 | C-101 | OVERVIEW SITE LAYOUT PLAN |
| 6 | C-102 | SITE LAYOUT & UTILITY PLAN |
| 7 | C-103 | GRADING & DRAINAGE PLAN |
| 8 | C-501 | DETAILS |
| 9 | C-502 | DETAILS |
| 10 | S-100 | STRUCTURAL COVER SHEET |
| 11 | S-101 | FOUNDATION PLAN & DETAILS |
| 12 | S-102 | FOUNDATION PLAN DETAILS |
| 13 | S-103 | FRAMING PLAN & DETAILS |
| 14 | S-104 | FRAMING PLAN DETAILS |
| 15 | A-101 | FLOOR PLANS |
| 16 | A-102 | DIMENSION PLANS |
| 17 | A-103 | REFERENCE PLANS |
| 18 | A-104 | ROOF PLAN & REFLECTED CEILING PLAN |
| 19 | A-201 | EXTERIOR ELEVATIONS |
| 20 | A-301 | BUILDING SECTIONS |
| 21 | A-401 | WALL SECTIONS |
| 22 | A-402 | WALL SECTIONS |
| 23 | A-403 | INTERIOR ELEVATIONS |
| 24 | A-404 | INTERIOR ELEVATIONS |
| 25 | A-501 | TYPICAL DETAILS |
| 26 | A-601 | DOOR - WINDOW & FINISH SCHEDULE |
| 27 | MEP1 | MECHANICAL-ELECTRICAL-PLUMBING COVER SHEET |
| 28 | MEP2 | SITE PLAN |
| 29 | M-101 | HVAC PLAN |
| 30 | M-501 | HVAC DETAILS & SCHEDULES |
| 31 | EP-101 | POWER PLAN |
| 32 | EL-101 | LIGHTING PLAN |
| 33 | E-501 | ELECTRICAL DETAILS & SCHEDULES |
| 34 | PS-101 | SANITARY SEWER PLAN |
| 35 | PW-101 | WATER & GAS PLAN |
| 36 | P-501 | PLUMBING DETAILS & SCHEDULES |

| |
|--|
| DESIGN TEAM: |
| ARCHITECT: ROBERT ROLLINGS ARCHITECTS, LLC 1806 WEST BROADWAY SEDALIA, MO 65301 660.829.9751 FAX: 660.829.9752 |
| MECHANICAL / ELECTRICAL ENGINEER: J-SQUARED ENGINEERING 2400 BLUFF CREEK DR. SUITE 101 COLUMBIA, MO 65203 573.234.4492 |
| STRUCTURAL ENGINEER: CROCKETT ENGINEERING 1000 W. NIFONG BLVD. BLDG. 1 COLUMBIA, MO 65202 573.447.0292 |
| CIVIL ENGINEER: BROADFOOT ENGINEERING, LLC 30277 CARPENTER ROAD SEDALIA, MO 65301 660.619.7001 |

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



Robert D. Rollings 2005001208, Certificate of Authority # A-2006003870



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Crockett Engineering Consultants, LLC
Missouri Certificate of Authority
#2000151304

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT DESIGN AND
CONSTRUCTION

DIRECTOR'S HOUSE

MISSOURI STATE
FAIRGROUNDS
2503 W. 16TH ST
SEDALIA, MO 65301
PROJECT # F2402-01
SITE # 1501
ASSET # 3511501149

REVISION:
DATE: _____

REVISION:
DATE: _____

REVISION:
DATE: _____

ISSUE DATE: 7/11/2025
BID DOCUMENTS

CAD DWG FILE: G-O-02
DRAWN BY: AMK
CHECKED BY: RDR
DESIGNED BY: AMK

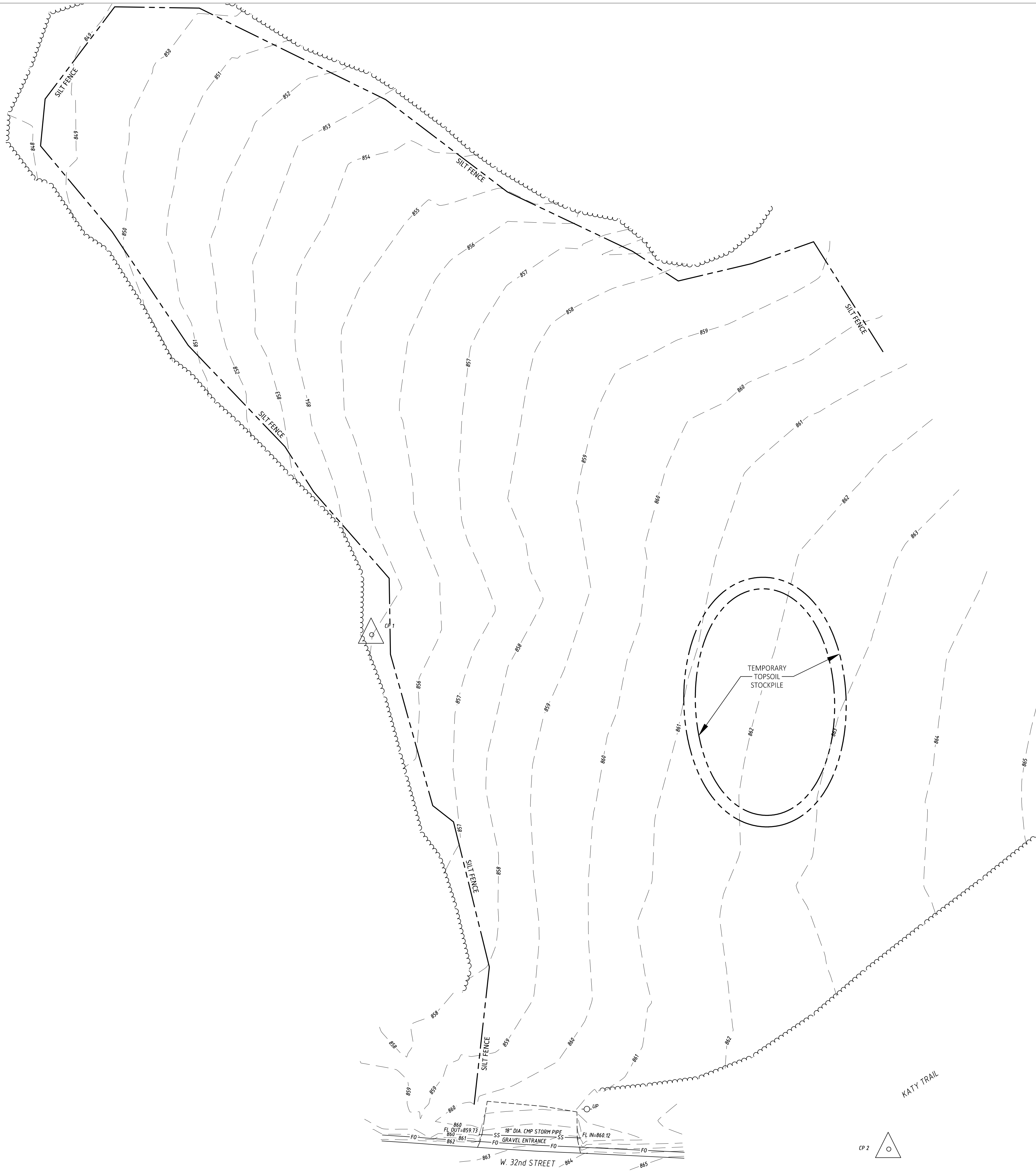
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GENERAL INFORMATION

SHEET NUMBER:

G-002

PAGE 2 OF 36
7/11/2025



| LEGEND | |
|--------|----------------------------|
| --- | EXISTING SURFACE CONTOUR |
| - - - | FENCE LINE |
| SS | STORM SEWER LINE |
| SAN | SANITARY SEWER LINE |
| G | GAS LINE |
| UT | UNDERGROUND TELEPHONE LINE |
| UE | UNDERGROUND ELECTRIC LINE |
| W | WATER LINE |
| - - - | SILT FENCE |

DEMOLITION NOTES

- CONTRACTOR SHALL DEMOLITION PER PLANS AND IN COORDINATION WITH OWNER AND UTILITIES.
- ALL OTHER ITEMS SHALL BE PROTECTED.
- CONTRACTOR SHALL HAUL DISPOSAL ITEMS TO AN APPROVED LOCATION.

EROSION CONTROL NOTES

- CONTRACTOR SHALL INSTALL PERIMETER SILT FENCE AS NECESSARY TO PREVENT SEDIMENT FROM LEAVING THE SITE.

UTILITY DISCLAIMER:
ALL UTILITIES SHOWN ARE BASED ON MARKINGS BY THE RESPECTIVE UTILITY COMPANIES, THE OWNERS, AND BY OBSERVABLE SURFACE STRUCTURES, AS FOUND IN THE FIELD.

PRIVATE WATER LINES WERE NOT MARKED BEYOND THE WATER METERS, AND IN SOME CASES, THE WATER COMPANY DID NOT MARK WATER MAINS, WHERE STRUCTURES WOULD INDICATE ONE EXISTED (i.e. FIRE HYDRANT OR WATER VALVE).

PRIVATE SANITARY SEWER LINES WERE NOT MARKED, BUT OBSERVABLE CLEAN-OUTS WERE LOCATED IN THE FIELD, AND ARE SHOWN. NO PUBLIC SEWER WAS MARKED WITHIN THE PROJECT LIMITS.

PRIVATE ELECTRIC, TELEPHONE, AND CATV LINES WERE NOT MARKED; BUT OBSERVABLE PRIVATE UTILITIES WERE LOCATED IN THE FIELD, AND ARE SHOWN.

ALL UTILITIES SHOULD BE LOCATED AND VERIFIED BEFORE ANY CONSTRUCTION SHOULD COMMENCE.

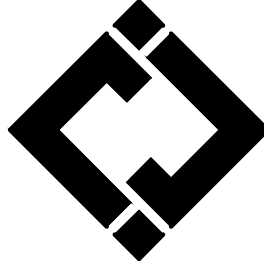
STATE OF MISSOURI
MIKE KEHOE
GOVERNOR



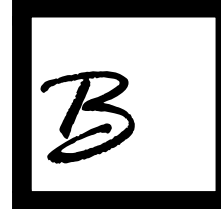
Theron J. Broadfoot, PE-2009015435
NO CERTIFICATE OF AUTHORITY # 2018030429



Robert Rollings
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Sedalia, MO 65301
Phone: 660. 829. 9751
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Missouri Certificate of Authority
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OFFICE OF ADMINISTRATION
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DIRECTOR'S HOUSE

MISSOURI STATE
FAIRGROUNDS
2503 W. 16TH ST
SEDALIA, MO 65301

PROJECT # F2402-01

SITE # 1501

ASSET # 3511501149

REVISION: _____
DATE: _____

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DRAWN BY: TJB
CHECKED BY: TJB
DESIGNED BY: TJB

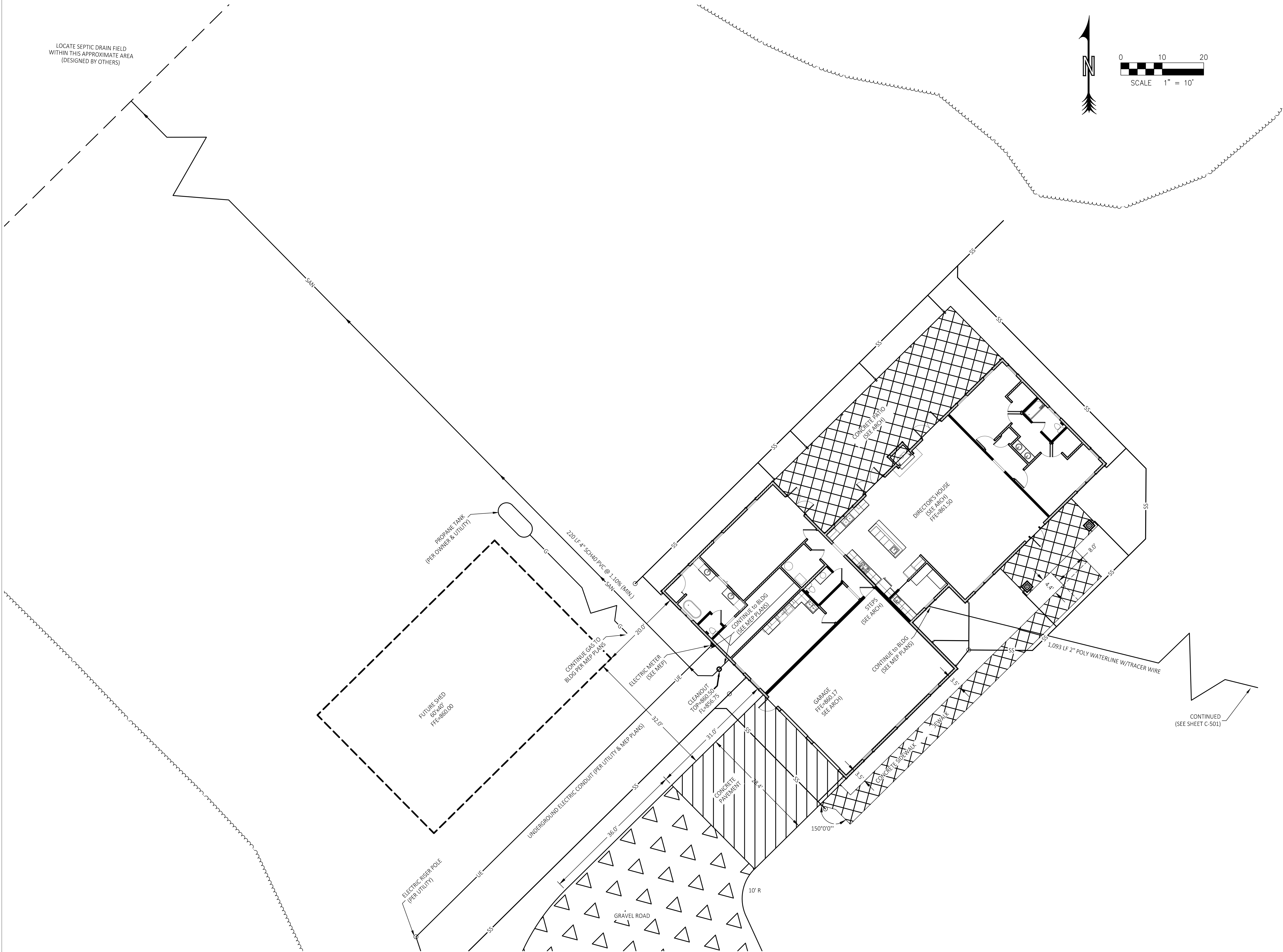
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EXISTING
CONDITIONS &
DEMOLITION PLAN

SHEET NUMBER:

C-100

PAGE 4 OF 36
7/11/2025



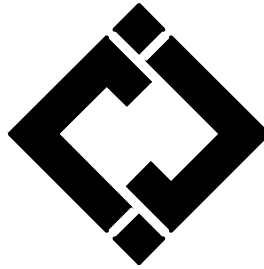
STATE OF MISSOURI
MIKE KEHOE
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Theron J. Broadfoot, PE-2009015435
MO CERTIFICATE OF AUTHORITY # 2018030429 JULY 11, 2025



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DRAWN BY: TJB
CHECKED BY: TJB
DESIGNED BY: TJB

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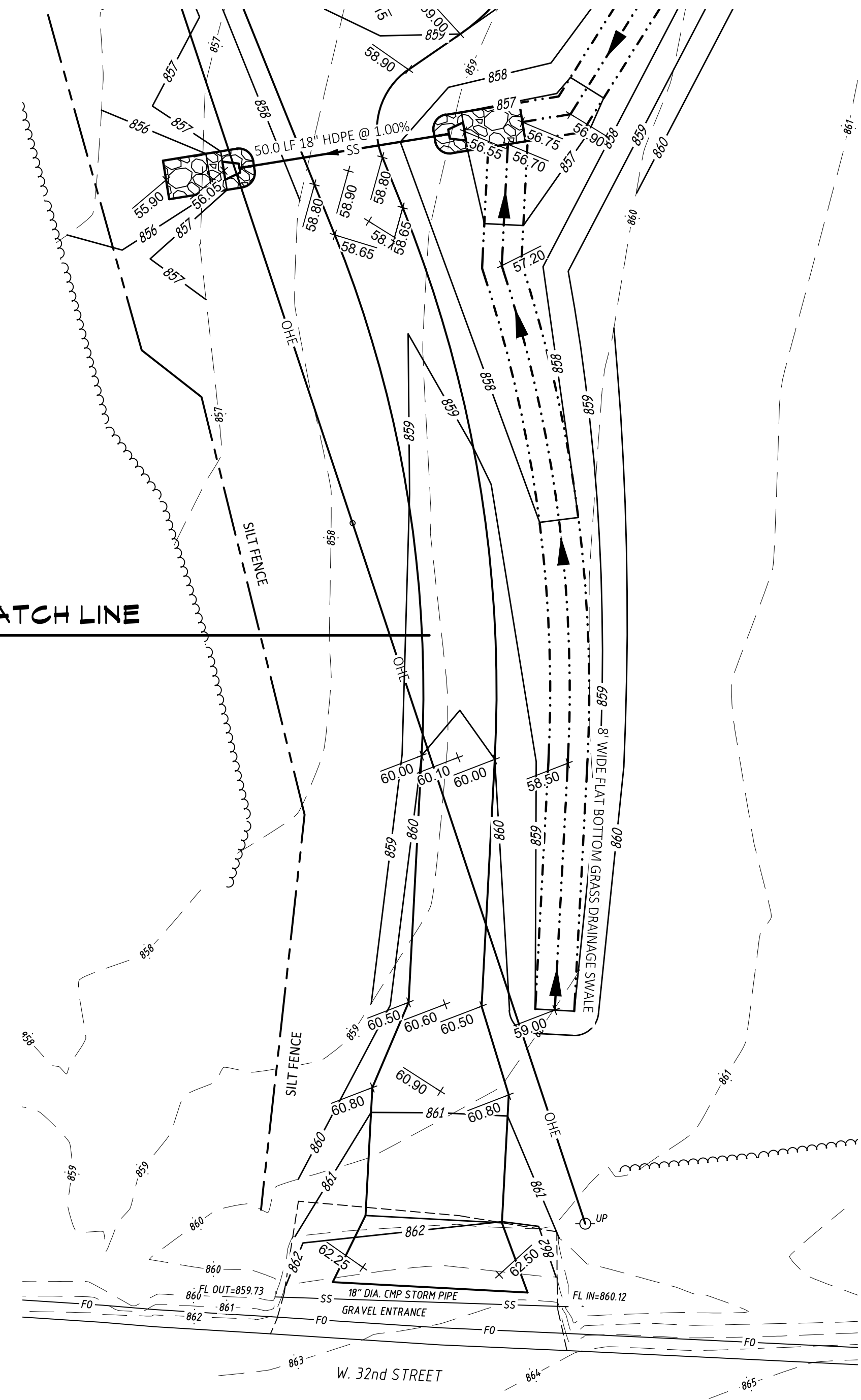
SITE LAYOUT
& UTILITY PLAN

SHEET NUMBER:

C-102



MATCH LINE



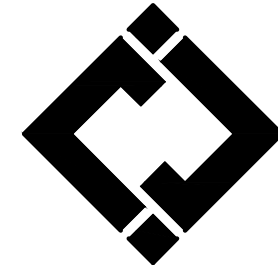
STATE OF MISSOURI
MIKE KEHOE
GOVERNOR



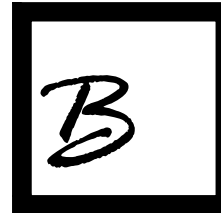
Theron J. Broadfoot, PE-2009015435
NO CERTIFICATE OF AUTHORITY # 2018030429 JULY 11, 2025



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DATE:

ISSUE DATE: 7/11/2025

BID DOCUMENTS

CAD DWG FILE:
DRAWN BY: TJB
CHECKED BY: TJB
DESIGNED BY: TJB

SHEET TITLE:

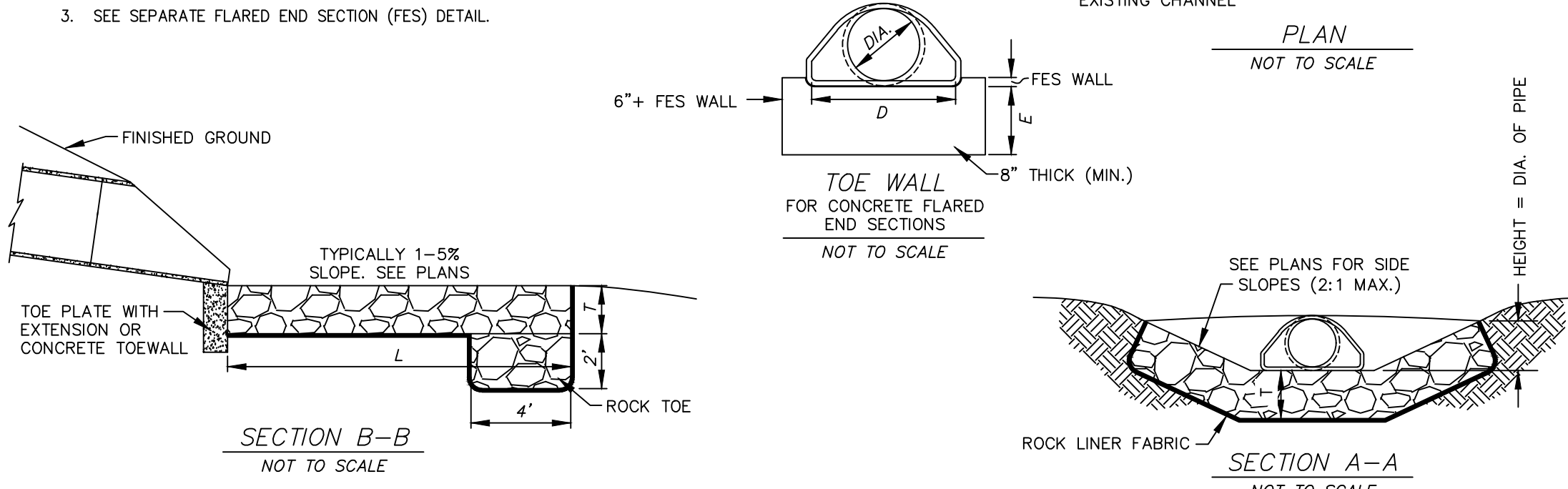
GRADING &
DRAINAGE PLAN

SHEET NUMBER:

C-103

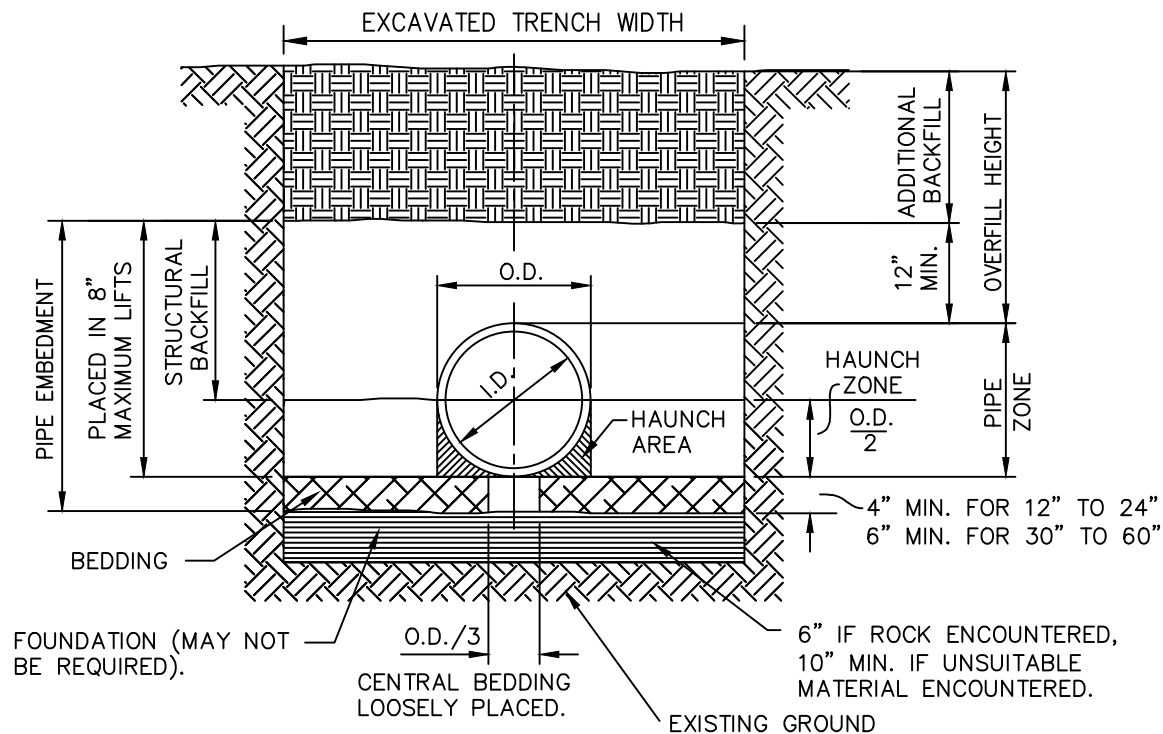
| PIPE SIZE (in.) | MAXIMUM PIPE SLOPE (%) | LENGTH L (ft) | BOTTOM BW MINIMUM (ft) | TOP WIDTH TW MINIMUM (ft) | THICKNESS T MINIMUM (ft) | D | E |
|-----------------|------------------------|---------------|------------------------|---------------------------|--------------------------|-------|-----|
| 12 | 3.50 | 12 | 4 | 8 | 1 | 2'-0" | 18" |
| 15 | 2.60 | 15 | 4 | 9 | 1 | 2'-6" | 18" |
| 18 | 2.00 | 16 | 4 | 10 | 1 | 3'-0" | 18" |
| 24 | 1.70 | 20 | 4 | 12 | 1 | 4'-0" | 24" |
| 30 | 1.40 | 24 | 6 | 16 | 2 | 5'-0" | 24" |
| 36 | 1.00 | 28 | 6 | 18 | 2 | 5'-6" | 24" |
| 42 | 0.80 | 32 | 6 | 20 | 2 | 6'-6" | 24" |
| 48 | 0.65 | 36 | 6 | 22 | 2 | 7'-0" | 24" |
| 54 | 0.55 | 40 | 8 | 26 | 2 | 7'-6" | 36" |
| 60 | 0.45 | 44 | 8 | 28 | 3 | 8'-0" | 36" |
| 72 | 0.40 | 48 | 8 | 32 | 3 | 9'-0" | 36" |

- NOTES:
- RIP RAP SHALL BE MODOT TYPE 1 ROCK BLANKET; 40% OF THE MASS SHALL BE PIECES HAVING A VOLUME OF ONE CUBIC FOOT OR MORE. ROCK MUST BE ANGULAR, HARD, AND DURABLE.
 - ROCK LINER FABRIC SHALL CONSIST OF A NON-WOVEN POLYPROPYLENE TYPE FABRIC: TENCATE MIRAFI 180N OR GEOTEX 801 OR APPROVED EQUAL.
 - SEE SEPARATE FLARED END SECTION (FES) DETAIL.



RIP RAP FOR FLARED END SECTIONS

NOT TO SCALE



TYPICAL TRENCH DETAIL

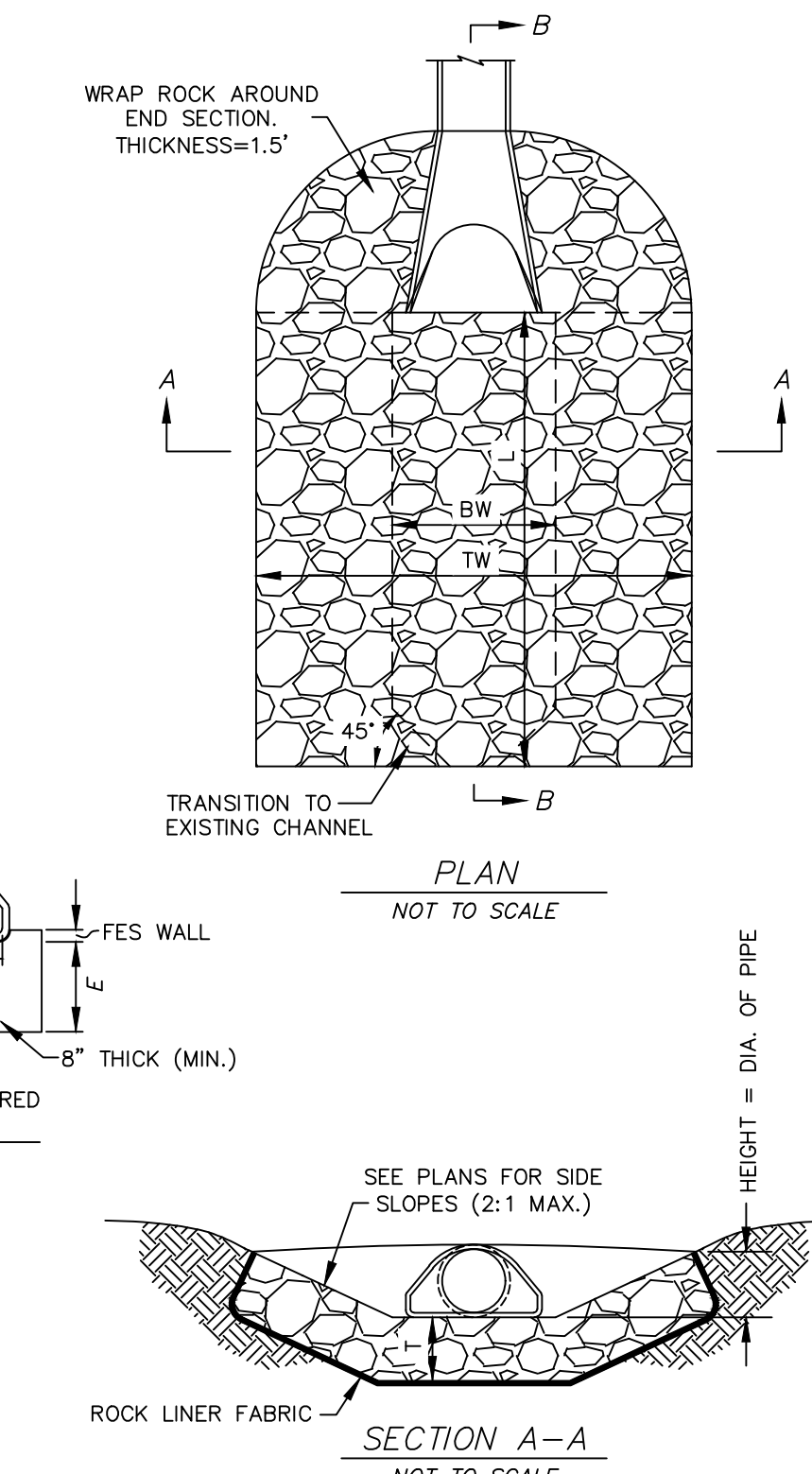
- BACKFILL NOTES:
- BEDDING, HAUNCH, AND STRUCTURAL BACKFILL SHALL BE IN CONFORMANCE WITH AASHTO M145 A1 OR A-3 COMPACTED TO A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY AS DEFINED BY ASTM D698.
 - ALL PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND ASTM D2321 LATEST ADDITION.
 - HAUNCH, STRUCTURAL, AND ADDITIONAL BACKFILL SHALL BE PLACED IN LIFTS NOT TO EXCEED 8 INCHES AND COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY AS DEFINED BY ASTM D698.

| TABLE I CORRUGATED HDPE AND POLYVINYL CHLORIDE CIRCULAR PIPE | | | | | | | | | | | | |
|---|--------------------------|--------------------------------|--|---------|-----------|---|-----------|-----------|--|-----------|-----|--------------------|
| SPECIFIED DIA OF PIPE (IN.) | MIN OVERFILL HEIGHT (FT) | HDPE MAX OVERFILL HEIGHT* (FT) | ADS N-12, N-12 ST, AND N-12 WT PIPE | | | | | | | | | TRENCH WIDTH (IN.) |
| | | | POLYVINYL CHLORIDE MAX OVERFILL HEIGHT* (FT) | | | VIRGIN RESIN (AKASHTO M294) OVERFILL HEIGHT* (FT) | | | ENGINEERED COMPOUND (RECYCLED, ASTM F2648) OVERFILL HEIGHT* (FT) | | | |
| | | | SDR 35# | SDR 26# | CLASS 1** | CLASS 2** | CLASS 3** | CLASS 1** | CLASS 2** | CLASS 3** | | |
| 12 | 2 | 26 | 15 | 30 | 43 | 29 | 21 | 27 | 19 | 12 | 34 | |
| 15 | 2 | 28 | 15 | 30 | 45 | 30 | 22 | 27 | 20 | 13 | 39 | |
| 18 | 2 | 24 | 15 | 30 | 40 | 27 | 19 | 25 | 18 | 11 | 44 | |
| 24 | 2 | 20 | 15 | 30 | 36 | 25 | 17 | 22 | 16 | 12 | 55 | |
| 30 | 2.5 | 17 | N/A | N/A | 29 | 21 | 15 | 16 | 12 | 6 | 67 | |
| 36 | 2.5 | 19 | N/A | N/A | 34 | 23 | 16 | 21 | 15 | 10 | 76 | |
| 42 | 2.5 | 19 | N/A | N/A | 31 | 23 | 16 | 17 | 13 | 7 | 84 | |
| 48 | 2.5 | 17 | N/A | N/A | 30 | 20 | 14 | 18 | 13 | 10 | 95 | |
| 54 | 2.5 | 9 | N/A | N/A | 33 | 22 | 15 | N/A | N/A | N/A | 104 | |
| 60 | 2.5 | 9 | N/A | N/A | 33 | 22 | 15 | 20 | 15 | 10 | 113 | |

TABLE ASSUMES STANDARD PROCTOR DENSITY OF 95%
 * MAXIMUM OVERFILL MEASURED FROM THE TOP OF PIPE TO SURFACE
 ** CLASS 1 - CRUSHED ROCK, ANGULAR; AASHTO M43 - 5, 6, 56, 57, 67; AASHTO M145 - A1, A3
 ** CLASS 2 - CLEAN, COURSE GRAINED SOILS TO BORDERLINE; CLEAN FINES; AASHTO M43 - 5, 6, 56, 57, 67; AASHTO M145 - A1, A3
 ** CLASS 3 - COURSE GRAINED SOILS WITH FINES AND INORGANIC FINE-GRAINED SOILS; AASHTO M43 - GRAVEL AND SAND WITH <10% FINES;
 ** AASHTO M145 - A-2-4, A-2-5, A-2-6, A-4, OR A-6 WITH >30% RETAINED ON #200 SIEVE
 ** REFER TO CURRENT ADS INC. DRAINAGE HANDBOOK FOR A COMPLETE LISTING OF SUITABLE MATERIALS
 # PER ASTM D-3034 FOR PIPE UP TO 15" AND ASTM F679 OVER 15"

EMBEDMENT OF PLASTIC STORM SEWER PIPE

NOT TO SCALE



SEE PLANS FOR SIDE SLOPES (2:1 MAX.)

SECTION A-A

NOT TO SCALE

| TABLE II MINIMUM COVER FOR CONSTRUCTION LOADS | | | | |
|--|---|-------|--------|---------|
| PIPE DIA. (IN.) | MINIMUM COVER (FT) FOR INDICATED AXLE LOADS (THOUSANDS OF POUNDS) | | | |
| | 18-50 | 50-75 | 75-110 | 110-150 |
| 12-36 | 2.0 | 2.5 | 3.0 | 3.0 |
| 42-48 | 3.0 | 3.0 | 3.5 | 4.0 |

THE CONTRACTOR SHALL PROVIDE MINIMUM COVER PLUS ANY ADDITIONAL COVER REQUIRED TO AVOID DAMAGE TO THE PIPE. IN UNPAVED SITUATIONS, THE SURFACE MUST BE MAINTAINED TO A LEVEL AND NON-RUTTED CONDITION.

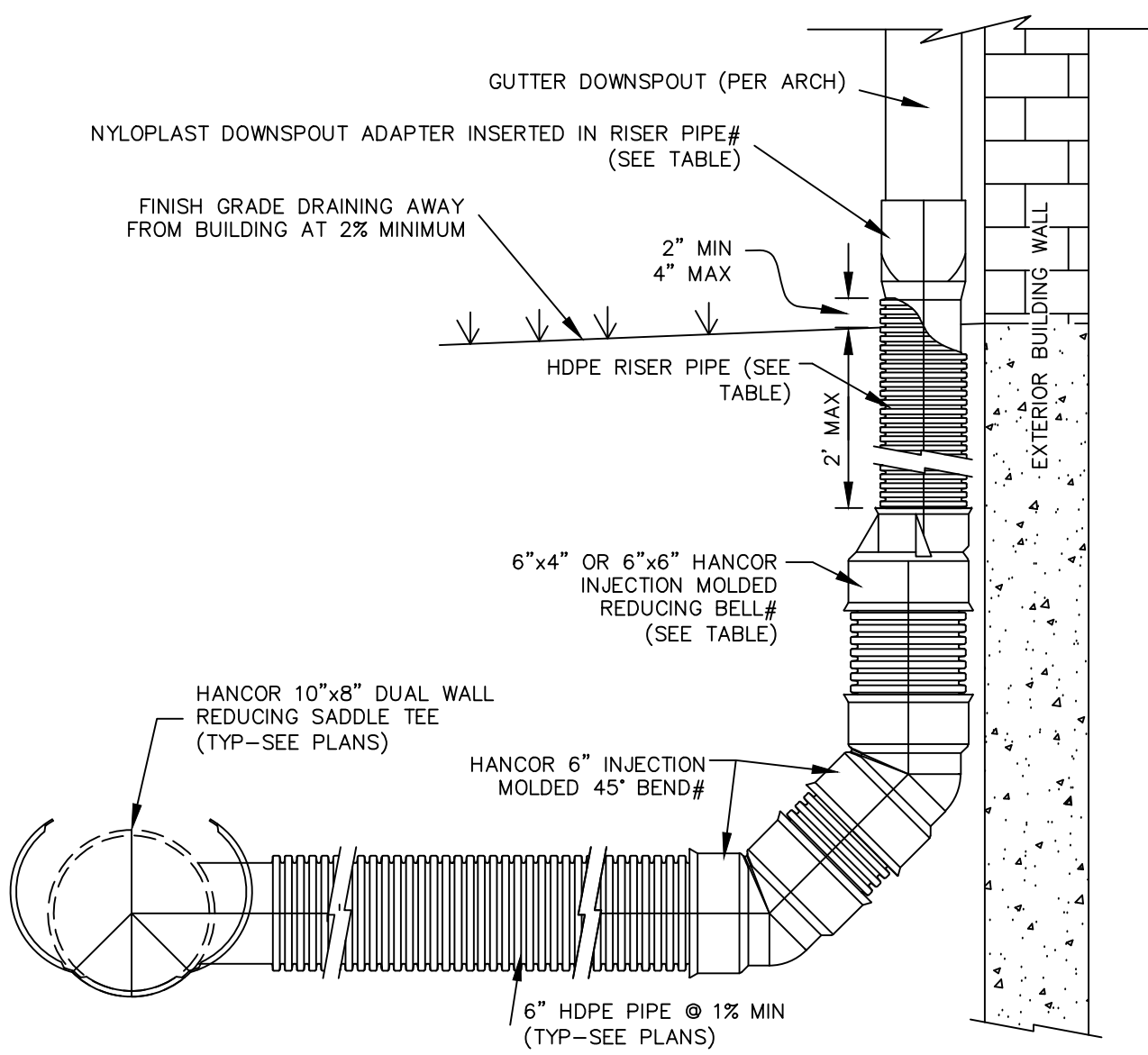
LEGEND

I.D. = NORMAL INSIDE DIAMETER OF PIPE.
 O.D. = OUTSIDE DIAMETER OF PIPE.
 H = FILL COVER HEIGHT OVER PIPE (FEET).
 MIN. = MINIMUM
 MAX. = MAXIMUM
 UNDISTURBED SOIL

- CONSTRUCTION SEQUENCE:
- PLACE BEDDING MATERIAL TO GRADE.
 - COMPACT BEDDING OUTSIDE THE MIDDLE THIRD OF THE PIPE.
 - INSTALL PIPE TO GRADE.
 - PLACE AND COMPACT THE HAUNCH AREA UP TO THE SPRINGLINE.
 - COMPLETE BACKFILL ACCORDING TO SPECIFICATIONS.

| TABLE III PARALLEL PIPE INSTALLATION | | | | |
|---|---------|---------|--|--|
| PIPE SIZE | S (IN.) | X (IN.) | | |
| 12 | 12 | 9 | | |
| 15 | 12 | 9 | | |
| 18 | 12 | 9 | | |
| 24 | 12 | 10 | | |
| 30 | 15 | 16 | | |
| 36 | 18 | 18 | | |
| 42 | 21 | 18 | | |
| 48 | 24 | 18 | | |

S = MINIMUM PIPE SEPARATION (IN.) BETWEEN OUTSIDE WALLS OF PIPES.
 X = MINIMUM SEPARATION BETWEEN TRENCH WALL AND OUTSIDE WALL OF PIPE.



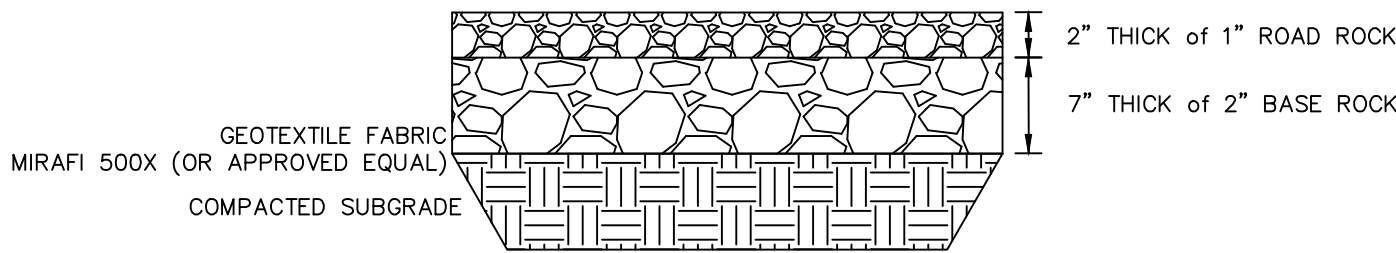
| GUTTER DOWNSPOUT (INCHES) | DOWNSPOUT ADAPTER (INCHES) | NYLOPLAST DOWNSPOUT ADAPTER ID | RISER PIPE Ø (INCHES) |
|---------------------------|----------------------------|--------------------------------|-----------------------|
| 4 X 4 | 4 X 4 X 4 | TECHNICAL DWG NO. 0444FH | 4 |
| 4 X 6 | 4 X 6 X 6 | TECHNICAL DWG NO. 0466FH | 6 |
| 6 X 6 | 6 X 6 X 6 | TECHNICAL DWG NO. 0666FH | 6 |
| 6 X 8 | 6 X 6 X 8 | TECHNICAL DWG NO. 0668FH | 8* |
| 8 X 8 | 8 X 6 X 8 | TECHNICAL DWG NO. 0888FH | 8* |

* INJECTION MOLDED REDUCING BELL NOT NECESSARY # OR APPROVED EQUAL

- NOTES:
- SEE PLANS TO DETERMINE IF FITTINGS AND JOINTS ARE SOIL TIGHT (ST) OR WATER TIGHT (WT).
 - INSTALL ALL PIPING PER SEPARATE DETAIL OR MANUFACTURER'S WRITTEN INSTRUCTIONS.
 - THIS DETAIL IS FOR GENERAL LAYOUT PURPOSES ONLY. ADDITIONAL COUPLERS, GASKETS, FITTINGS, ETC. MAY BE NECESSARY PER MANUFACTURER'S REQUIREMENTS.
 - IF GUTTER DOWNSPOUT SIZE EXCEEDS THE LARGEST AVAILABLE HANCOR DOWNSPOUT ADAPTER, THE HDPE PIPE SIZE SHALL BE INCREASED TO ACCOMMODATE THE DOWNSPOUT AND THE DOWNSPOUT ADAPTER SHALL BE REPLACED WITH AN HDPE END CAP PREFABRICATED OR CUT TO FIT THE DOWNSPOUT GUTTER AND UPSIZED HDPE PIPE. CAP/PIPE SHALL BE INSTALLED SO CAP IS 2" ABOVE FINISHED GRADE, MINIMUM.
 - SDR35 PVC PIPE MAY BE SUBSTITUTED FOR ANY HDPE PIPE UP TO 15" IN DIAMETER

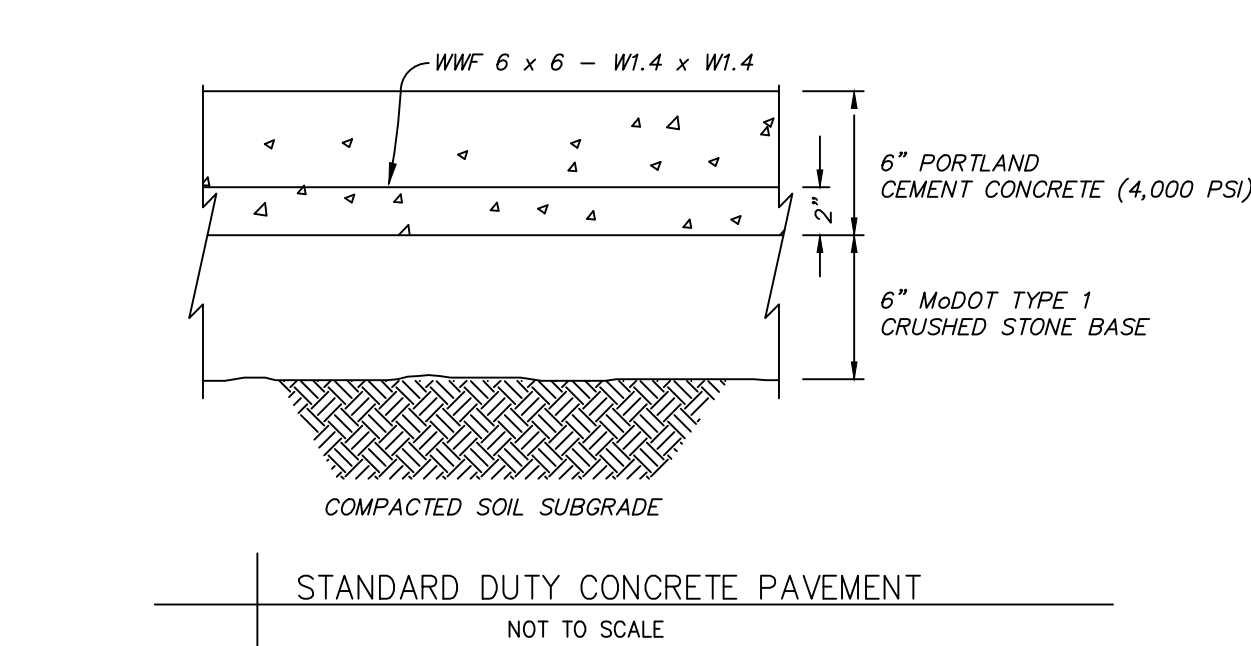
GUTTER DOWNSPOUT CONNECTION

NOT TO SCALE



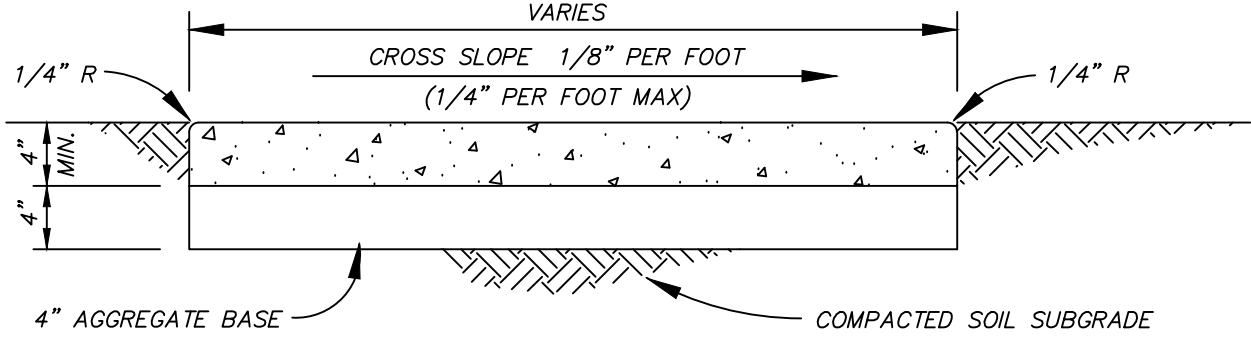
GRAVEL PARKING/DRIVE/LAYDOWN

NOT TO SCALE



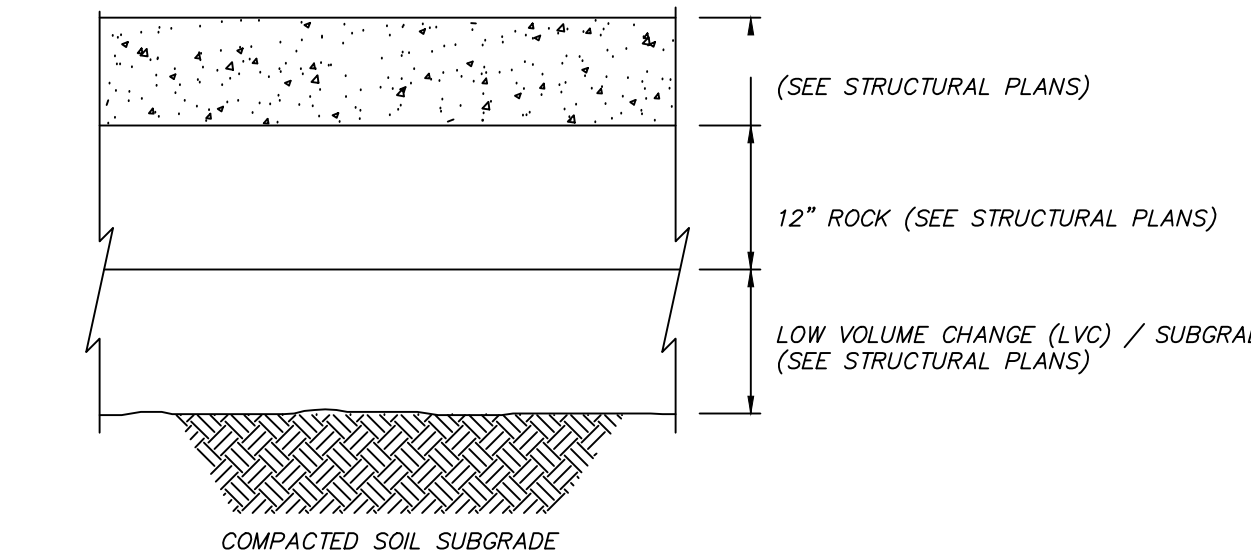
STANDARD DUTY CONCRETE PAVEMENT

NOT TO SCALE



CONCRETE SIDEWALK

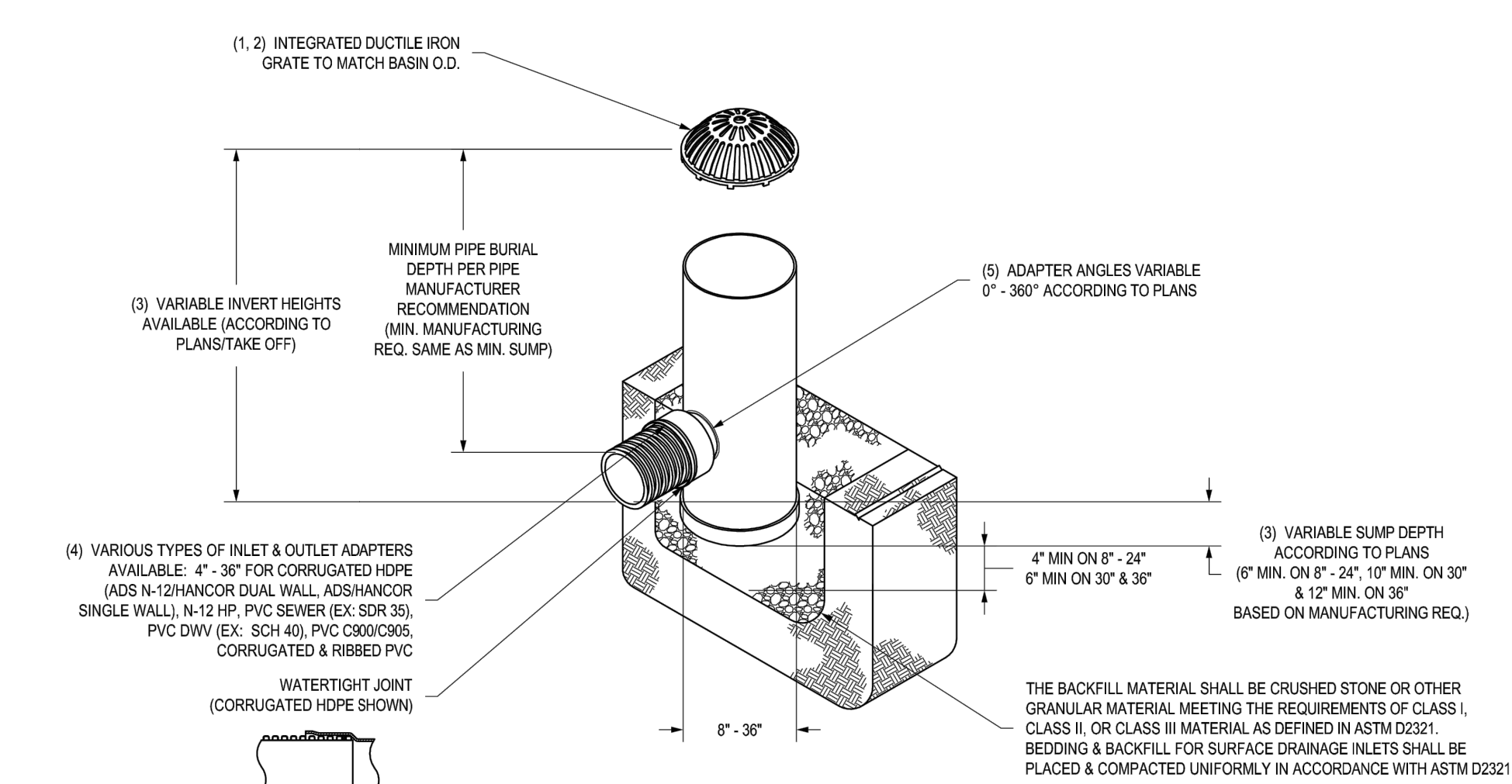
NOT TO SCALE



BUILDING (INTERIOR) PAD

NOT TO SCALE

NYLOPLAST DRAIN BASIN WITH DOME GRATE



- 1 - 8" - 30" DOME GRATES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
- 2 - IF A 10" DOME GRATE FITS ONTO THE DRAIN BASIN WITH THE USE OF A PVC BODY TOP. SEE DRAWING NO. 7001-10-045.
- 3 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 6" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-10-045.
- 4 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D2321 FOR CORRUGATED HDPE (ADS N-12 HANCOR DUAL WALL), N-12 HP, & PVC SEWER (EX: SDR 35), PVC DWV (EX: SCH 40), PVC C900/C905, CORRUGATED & RIBBED PVC.
- 5 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-11-012.
- 6 - 8" - 30" DOME GRATES HAVE NO LOAD RATING.

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DRAWN BY: EBC
 DATE: 03-25-10
 REVISED BY: NMH
 DATE: 06-12-10
 PROJECT NO: NAME
 DWG SIZE: A
 SCALE: 1/40
 SHEET: 1 OF 1

MATERIAL
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 PHN (770) 922-4443
 FAX (770) 922-4400
 www.nyloplast-usa.com
 TITLE
 DRAIN BASIN WITH DOME GRATE
 QUICK SPEC INSTALLATION DETAIL
 DWG NO. 7001-110-397
 REV E

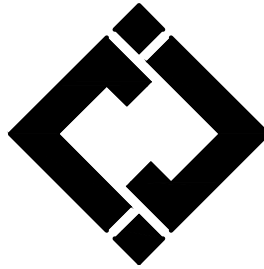
STATE OF MISSOURI MIKE KEHOE GOVERNOR



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PROJECT # F2402-01

SITE # 1501

ASSET # 3511501149

REVISION:
 DATE:

REVISION:
 DATE:

REVISION:
 DATE:

ISSUE DATE: 7/11/2025

BID DOCUMENTS

CAD DWG FILE:

DRAWN BY: TJB

CHECKED BY: TJB

DESIGNED BY: TJB

SHEET TITLE:

DETAILS

SHEET NUMBER:

C-502

GENERAL NOTES

ELEVATION DATUM
SEE ARCHITECTURAL DRAWINGS OR SITE PLAN FOR FINISH FLOOR ELEVATIONS

DESIGN SPECIFICATIONS
2021 INTERNATIONAL BUILDING CODE

EARTHWORK
EARTHWORK OPERATIONS SHALL BE PERFORMED UNDER THE DIRECTION OF A PROFESSIONAL TESTING AGENCY TO ASSURE COMPLIANCE WITH THE RECOMMENDATIONS OF THE SOILS REPORT.

CONCRETE

CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF THE CURRENT ACI 301, SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS, ACI 318 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, ACI 305 SPECIFICATIONS FOR HOT WATER CONCRETE, AND ACI 308 SPECIFICATIONS FOR COLD WEATHER CONCRETE, WITH THE FOLLOWING ADDITIONAL REQUIREMENTS:

- CONCRETE SHALL DEVELOP THE FOLLOWING 28-DAY MINIMUM COMPRESSIVE STRENGTH:
FOUNDATIONS – 3,000 PSI
CAST-IN-PLACE WALLS – 3,500 PSI
FLOOR SLAB – 4,000 PSI
EXTERIOR SLABS, WALLS AND CURBS – 4,000 PSI
- ALL FOOTINGS SHALL BEAR ON UNDISTURBED SOIL OR ENGINEERED FILL.
- CHLORIDE- BASED ADMIXTURES ARE PROHIBITED IN ALL REINFORCED CONCRETE.
- REINFORCING STEEL SHALL CONFORM TO ASTM A615, A616, OR A617, GRADE 60.
- ALL CONTINUOUS REINFORCING STEEL THAT MEETS AT A CORNER SHALL BE TIED TOGETHER WITH A CORNER BAR THAT HAS SUFFICIENT LAP DISTANCE IN EACH DIRECTION.
- CONTINUOUS REINFORCING BARS LAP LENGTH SHALL BE A MINIMUM OF 48 BAR DIAMETERS UNLESS NOTED OTHERWISE.
- CONCRETE SLUMP SHALL BE A MAXIMUM OF 4" +/- 1" (ASTM C- 143) AS DELIVERED IN THE FIELD. CONTRACTOR MAY USE CHEMICAL ADMIXTURES TO ATTAIN A MAXIMUM SLUMP OF 8" FOR WORKABILITY. NO WATER MAY BE ADDED TO THE CONCRETE MIX ON SITE UNLESS WATER IS WITHHELD AT THE BATCHING FACILITY. IF WATER IS WITHHELD AT THE BATCHING FACILITY IT SHOULD BE REFLECTED ON THE LOAD TICKET. THE TOTAL AMOUNT OF WATER IN THE MIX SHALL NOT EXCEED WHAT IS NOTED ON THE APPROVED MIXED. THIS SHALL BE NOTED IN THE SPECIAL INSPECTOR'S RECORDS.
- CONCRETE EXPOSED TO WEATHER, VEHICLES, AND/OR DEICING CHEMICALS SHALL BE AIR-ENTRAINED WITH 6% (+/-) 1.5% ENTRAINED AIR BY VOLUME AT POINT OF DISCHARGE. DO NOT ALLOW AIR CONTENT OF TROWELED FINISHED FLOORS TO EXCEED 3%.
- SUBMIT CONCRETE MIX PROPORTIONS PRIOR TO START OF WORK. DO NOT BEGIN CONCRETE PRODUCTION UNTIL MIXES HAVE BEEN REVIEWED AND ARE ACCEPTABLE TO THE ENGINEER.
- READY MIX CONCRETE SHALL COMPLY WITH REQUIREMENTS OF ASTM C94.
- CONCRETE WORK EXECUTION
 - CONSTRUCT FORMS TO CORRECT SIZE, SHAPE, ALIGNMENT, ELEVATION AND POSITION; AND TO SUPPORT VERTICAL AND LATERAL LOADS.
 - POSITION, SUPPORT, AND SECURE REINFORCEMENT AGAINST DISPLACEMENT. MINIMUM CONCRETE COVER FOR REINFORCEMENT SHALL BE, UNLESS NOTED OTHERWISE ON THE DRAWINGS:
CAST AGAINST AND EXPOSED TO EARTH.....3 INCHES
EXPOSED TO EARTH OR WEATHER.....2 INCHES
NOT EXPOSED TO WEATHER OR
IN CONTACT WITH EARTH.....1 ½ INCHES
- PROVIDE CONTROL JOINTS IN SLABS-ON-GRADE AT NOT GREATER THAN 15 FEET ON CENTER IN EACH DIRECTION. SAW CUT CONTROL JOINTS MINIMUM ¼ OF SLAB DEPTH, AS SOON AFTER SLAB FINISHING WITHOUT DISLODING AGGREGATE.
- STEEL TROWEL FINISH ALL INTERIOR CONCRETE SLABS, BROOM FINISH ALL EXTERIOR CONCRETE SLABS.
- CURE ALL CONCRETE IN COMPLIANCE WITH ACI 301, USING A LIQUID TYPE MEMBRANE, NON-RESIDUAL, CURING COMPOUND COMPLYING WITH ASTM C309. ASSURE COMPATIBILITY WITH FINISH FLOOR COVERING.

POST-INSTALLED ANCHORS

- ALL POST-INSTALLED ANCHORS SHALL MEET THE REQUIREMENTS OF THE CODE-CITED EDITION OF ACI 318, APPENDIX "D", AND SHALL BE ACCEPTABLE FOR BOTH CRACKED AND UNCRACKED CONCRETE.
- EXPANSION ANCHORS HAVE BEEN DESIGNED AS HILTI KWIK BOLT TZ ANCHORS, UNLESS NOTED OTHERWISE.
- ADHESIVE ANCHORS HAVE BEEN DESIGNED TO USE HILTI HIT HY 200 ADHESIVE IN CONCRETE OR SOLID MASONRY, UNLESS NOTED OTHERWISE.
- EQUIVALENT ANCHORS MAY BE SUBMITTED FOR THE ENGINEER'S APPROVAL. SUBMITTALS ARE THE CONTRACTOR'S RESPONSIBILITY AND MUST INCLUDE EVALUATION REPORTS FROM THE INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS (ICBO).
- EMBEDMENT DEPTH IS DEFINED AS THE DISTANCE FROM THE SURFACE OF THE LOAD-BEARING BASE MATERIAL TO THE DEEPEST PART OF THE ANCHOR AFTER THE ANCHOR HAS BEEN DRIVEN INTO THE HOLE BUT NOT YET EXPANDED.
- ADHESIVE ANCHORS SHALL BE ACCEPTABLE FOR LONG-TERM LOADING. WHEN BASE MATERIAL TEMPERATURES ARE BELOW 40 DEG F, ONLY NON-EPOXY-BASED ADHESIVES SHALL BE USED.
- POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE DRAWINGS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER PRIOR TO USING POST-INSTALLED ANCHORS FOR MISSING OR MISPLACED CAST-IN-PLANE ANCHORS. CARE SHALL BE TAKEN TO AVOID CONFLICTS WITH EXISTING REINFORCING BARS. HOLES SHALL BE DRILLED AND CLEANED PER ANCHOR MANUFACTURER'S SPECIFICATIONS.
- STAINLESS STEEL ANCHORS ARE REQUIRED AT ALL PERMANENTLY EXPOSED WEATHER CONDITIONS.

TIMBER

TIMBER WORK SHALL CONFORM TO ALL REQUIREMENTS OF THE CURRENT ANSI/AWC NATIONAL DESIGN SPECIFICATION (NDS) FOR WOOD CONSTRUCTION WITH 2015 NDS SUPPLEMENT FOR WOOD CONSTRUCTION, WITH THE FOLLOWING SUPPLEMENTAL REQUIREMENTS:

- FOR COMMON MEMBER SIZES, THE SPECIES AND GRADES SHALL BE AS FOLLOWS, UNLESS NOTED OTHERWISE:

| | | |
|----|------|---------------|
| A. | 2X4 | SPF No.1/No.2 |
| B. | 2X6 | SPF No.1/No.2 |
| C. | 2X8 | DF-L No.2 |
| D. | 2X10 | DF-L S.S. |
| E. | 2X12 | DF-L S.S. |

EQUIVALENT (OR BETTER) GRADES & SPECIES MAY BE SUBMITTED FOR THE ENGINEER'S APPROVAL.

- SIZES SHOWN FOR LUMBER ARE NOMINAL SIZES.
- TIMBER EXPOSED TO WEATHER OR GROUND, OR IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE-IMPREGNATED BY AN APPROVED PROCESS AND PRESERVATIVE.
- SPLICING OF JOISTS, STUDS, OR HEADERS IS PROHIBITED EXCEPT AS SHOWN.
- BOLTS SHALL CONFORM TO ASTM A307. HOLES SHALL BE DRILLED PER SECTION 12.1.3 OF THE 2015 ANSI/AWC NDS FOR WOOD CONSTRUCTION NDS SUPPLEMENT.
- LAG SCREWS AND WOOD SCREWS SHALL BE INSTALLED PER SECTIONS 12.1.4 & 12.1.5 RESPECTIVELY, OF THE 2015 ANSI/AWC NDS FOR WOOD CONSTRUCTION WITH 2015 NDS SUPPLEMENT.
- COMMON NAILS SHALL BE USED, UNLESS NOTED OTHERWISE. IN ADDITION, NAILS SHALL BE GALVANIZED, IF EXPOSED TO WEATHER OR MOISTURE. TOE-NAILS SHALL BE DRIVEN PER SECTION 12.1.6.3 OF THE 2015 ANSI/AWC NDS FOR WOOD CONSTRUCTION WITH 2015 NDS SUPPLEMENT.
- FASTENING SHALL BE PER THE IBC MINIMUM FASTENING SCHEDULE, TABLE 2304.10.1, UNLESS NOTED OTHERWISE.
- CONNECTIONS/CONNECTORS SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.

PREFABRICATED WOOD TRUSSES

- FLOOR & ROOF TRUSSES SHALL BE DESIGNED IN ACCORDANCE WITH THE TRUSS PLATE INSTITUTE (TPI) DESIGN SPECIFICATION FOR METAL PLATE CONNECTED WOOD TRUSSES, AND THE ANSI/NF&PA NATIONAL DESIGN SPECIFICATION (NDS) FOR WOOD CONSTRUCTION.
- PROVIDE TEMPORARY AND PERMANENT BRACING ON ALL TRUSSES, AS REQUIRED TO PROVIDE MEMBER AND TRUSS STABILITY.
- FLOOR & ROOF TRUSSES SHALL BE DESIGNED AND CONSTRUCTED FOR A MAXIMUM TOTAL LOAD DEFLECTION OF L/360 AND TO SAFELY SUPPORT THE FOLLOWING LOADS:
 - DEAD, LIVE, SNOW, WIND, EARTHQUAKE: SEE PROJECT DESIGN DATA ON COVER SHEET.
 - MECHANICAL PIPE LOAD: TRUSSES SHALL BE DESIGNED FOR A CONCENTRATED LOAD OF 250 LBS HUNG ANYWHERE ALONG THE BOTTOM CHORD.
 - OVER-FRAMING LOAD: TRUSSES SHALL ALSO BE DESIGNED TO SUPPORT ADDITIONAL OVERBUILD FRAMING, SUCH AS THAT WHICH FORMS VALLEYS AND HIPS ON ROOFS.
 - DRIFTED SNOW LOAD: TRUSSES SHALL BE DESIGNED TO SUPPORT DRIFTED SNOW LOADS IN ACCORDANCE WITH THE APPROPRIATE BUILDING CODE.
 - IN-PLANE LATERAL LOADS: TRUSSES SHALL BE DESIGNED TO SUPPORT ANY LATERAL LOADS CARRIED AXIALLY IN THE PLANE OF THE TRUSS, AS SHOWN ON THE PLANS.
- GABLED END TRUSSES SHALL HAVE VERTICAL MEMBERS SPACED AT 16" O.C. MAXIMUM.
- SUBMITTALS SHALL INCLUDE THE FOLLOWING:
 - SHOP DRAWINGS PREPARED UNDER THE SUPERVISION OF, AND SIGNED AND SEALED BY, A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS BUILT. THESE DRAWINGS SHALL INDICATE SPECIES, GRADE, AND SIZES OF LUMBER TO BE USED; PITCH, SPAN, CAMBER, CONFIGURATION, AND SPACING FOR EACH TYPE OF TRUSS REQUIRED; TYPE, SIZE, MATERIAL, FINISH, AND LOCATION OF METAL CONNECTOR PLATES; AND BEARING DETAILS. SHOW TRUSS LAYOUT AND ALL REQUIRED TEMPORARY AND PERMANENT BRACING AFFECTING THE STRUCTURAL CAPACITY OF THE TRUSSES.

PROVIDE COMPLETE ENGINEERING DESIGN CALCULATIONS THAT INCLUDE DESIGN VALUES, DESIGN ANALYSIS INDICATING LOADING, ASSUMED ALLOWABLE STRESSES, STRESS DIAGRAM, AND CALCULATIONS, AND ANY OTHER INFORMATION NEEDED FOR REVIEW. THE CALCULATIONS SHALL HAVE BEEN SIGNED AND SEALED BY A QUALIFIED PROFESSIONAL ENGINEER WHO IS REGISTERED IN THE STATE WHERE THE PROJECT IS BUILT AND WHO IS RESPONSIBLE FOR PREPARATION OF THE CALCULATIONS.

SPECIAL INSPECTIONS

THE FOLLOWING ITEMS REQUIRE SPECIAL INSPECTION IN ACCORDANCE WITH CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE.

- CONCRETE GROUT DESIGN MIX (PERIODIC)
- PLACING OF CONCRETE AND REINFORCING STEEL (CONTINUOUS OF CONCRETE SAMPLING / PERIODIC OF REINFORCING)
- BOLTS & ANCHORS EMBEDDED IN CONCRETE (PERIODIC)
- STRUCTURAL STEEL FABRICATIONS (UNLESS ASC APPROVED) (PERIODIC)
- STRUCTURAL STEEL BOLTING & WELDING (PERIODIC)
- POST-INSTALLED ANCHORS IN CONCRETE (CONTINUOUS)
- IN-SITU SOILS, EXCAVATIONS, FILLING & COMPACTION (PERIODIC)
- WOOD FRAMING:
 - SHEAR WALLS; WALL SIZE, CONFIGURATION, BLOCKING, PANEL GRADE, PANEL THICKNESS, AND FASTENING. (PERIODIC)
 - DIAPHRAGMS (FLOOR AND ROOF SHEATHING); SIZE, CONFIGURATION, BLOCKING, PANEL GRADE, PANEL THICKNESS, AND FASTENING. (PERIODIC)
 - FRAMING MEMBERS AND DETAILS (PERIODIC)
 - MATERIAL GRADE (PERIODIC)
 - CONNECTIONS; HANGERS, HOLD DOWNS, BUILT-UP COLUMNS, BUILT-UP BEAMS (PERIODIC)
 - PRE-ENGINEERED TRUSSES; FRAMING, CONNECTIONS, BRIDGING (PERIODIC)

THE CONTRACTOR SHALL PROVIDE SPECIAL INSPECTION OF THE ITEMS LISTED ABOVE PRIOR TO THOSE ITEMS BECOMING INACCESSIBLE AND UNOBSERVABLE DUE TO PROGRESSION OF THE WORK

| DESIGN DATA | |
|--|--|
| 2021 INTERNATIONAL BUILDING CODE / ASCE 7-16 | |
| BUILDING OCCUPANCY CATEGORY | II |
| ROOF LOAD DATA | |
| LIVE LOAD | 20 |
| ASPHALT SHINGLES + FELT | 3.0 |
| 8" GSB ROOF SHEATHING | 2.5 |
| PRE-ENGINEERED WOOD TRUSSES @ 2'-0" O.C. | 3.0 |
| INSULATION (BLOWN) | 1.0 |
| MECHANICAL ALLOWANCE | 4.0 |
| 50" GYP. CEILING | 1.5 |
| SOLAR | 6.0 |
| TOTAL TO TRUSSES | 49 psf/sq ft |
| WIND LOADING | |
| 15 MINUTE RAIN INTENSITY | 6.5 in/hr |
| 60 MINUTE RAIN INTENSITY | 3.27 in/hr |
| ROOF SNOW LOAD DATA: | (*UNBALANCED & DRIFTING SNOW TO BE DETERMINED IN ADDITION TO UNIFORM LOAD, WHERE APPLICABLE) |
| P _s = | 20 psf/sq ft |
| C _e = | 1.0 |
| I _s = | 1.0 |
| C _i = | 1.0 |
| P _f = | 14.00 psf/sq ft |
| WIND DESIGN DATA | |
| V _{ult} = | 109 MI.P.H. (3-SECOND GUST) |
| RISK CATEGORY | II |
| EXPOSURE | C |
| INTERNAL PRESSURE COEFFICIENT = | +0.18 |
| DIRECTIONAL PROCEDURE (MWFRS - ASCE 7, CH 27; GAO - ASCE 7, CH 30, PART 4) | |
| MAXIMUM COMPONENTS & CLADDING WIND | +/-33.54 psf/sq ft |
| EARTHQUAKE DESIGN DATA | |
| RISK CATEGORY | II |
| I _e = | 1.0 |
| S ₁ = | 0.136 |
| S ₂ = | 0.093 |
| SITE CLASS | D |
| S _{DS} = | 0.145 |
| S _{DI} = | 0.133 |
| SEISMIC DESIGN CATEGORY | C |
| BASIC SEISMIC-FORCE-RESISTING SYSTEM = LIGHT-FRAME (WOOD) WALLS SHEATHED WITH WOOD STRUCTURAL PANELS RATED FOR SHEAR RESISTANCE | |
| R = | 6.5 |
| I _{DS} = | 3.0 |
| C _u = | 4.0 |
| DESIGN BASE SHEAR | V = 0.022W |
| EQUIVALENT LATERAL FORCE PROCEDURE | |
| NET ALLOWABLE SOIL BEARING | 1,500 psf/sq ft** |
| (**ASSUMED PER IBC TABLE 1906.2, PRESUMPTIVE LOAD-BEARING VALUES) | |

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



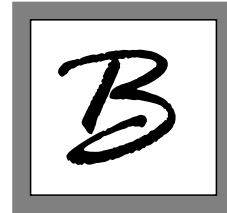
GREGORY L. LINNEMAN - PE
MO LICENSE - 2005001013
Robert D. Rollings 2005001208, Certificate of Authority # A-2006003870



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2503 W. 16TH ST
SEDALIA, MO 65301

PROJECT # F2402-01

SITE # 1501
ASSET # 3511501149

REVISION:
DATE:

REVISION:
DATE:

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DATE:

ISSUE DATE: 7/11/2025

BID DOCUMENTS

CAD DWG FILE: S-O-10
DRAWN BY: AMK
CHECKED BY: RDR
DESIGNED BY: AMK

SHEET TITLE:

STRUCTURAL
COVER SHEET

SHEET NUMBER:

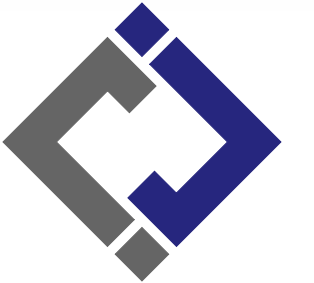
S-100



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CAD DWG FILE: S-FP-11

DRAWN BY: AMK

CHECKED BY: RDR

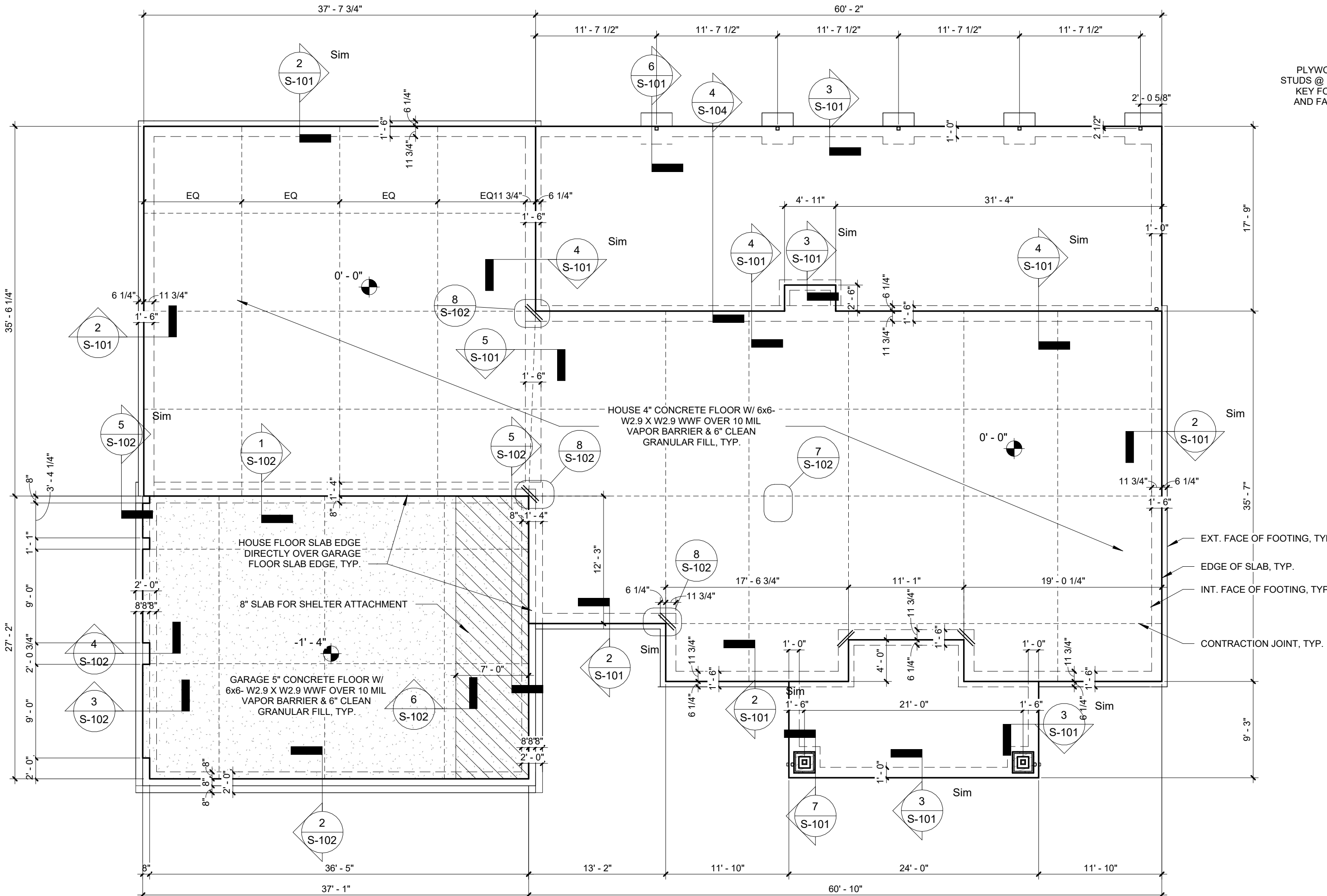
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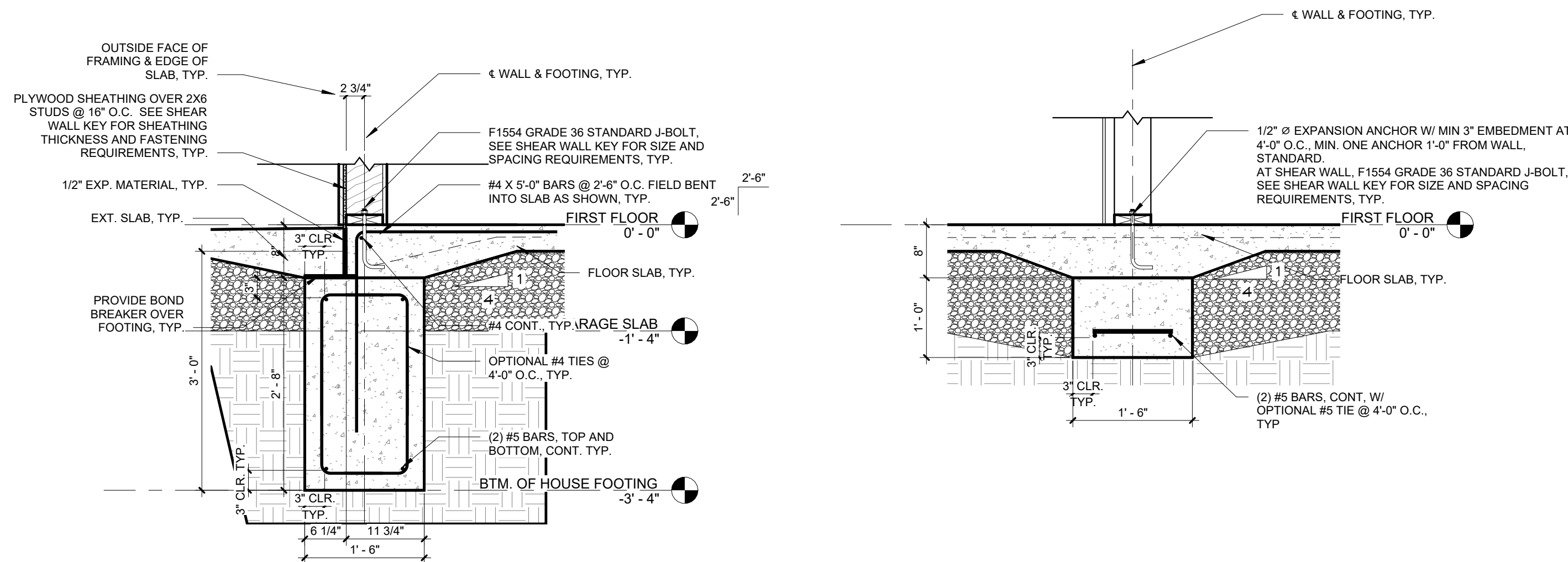
**FOUNDATION PLAN
& DETAILS**

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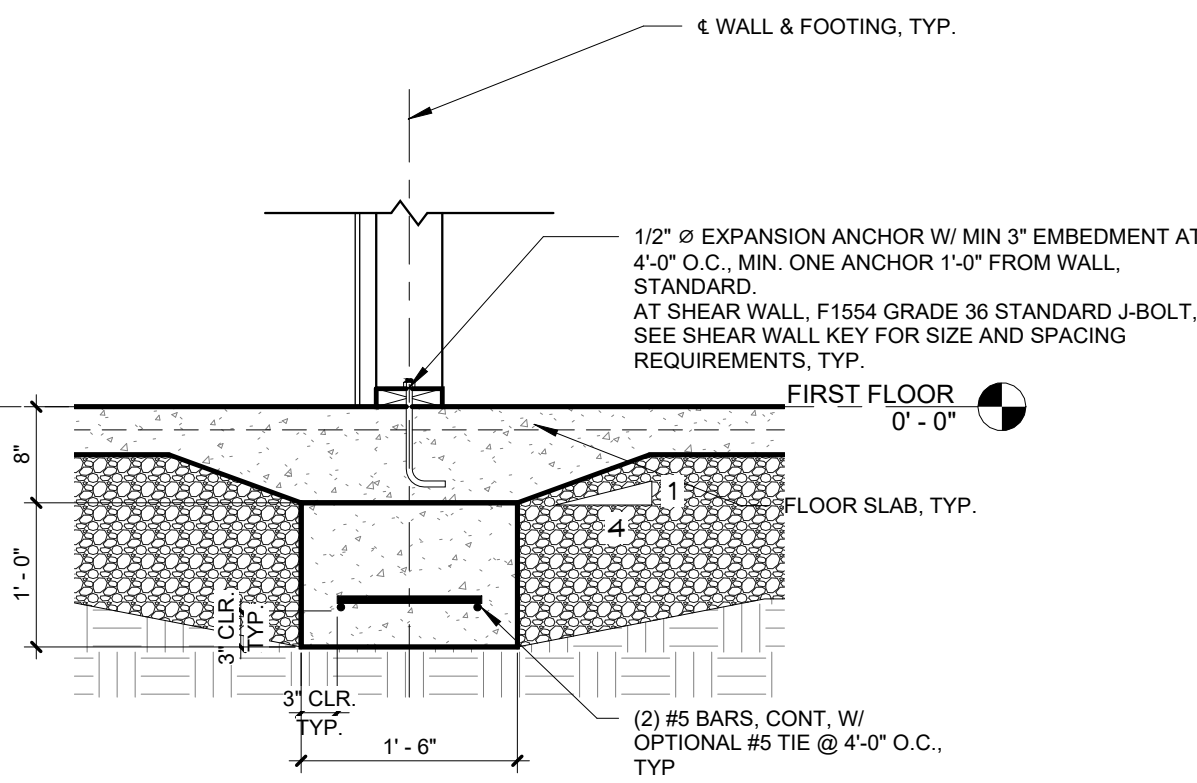
S-101



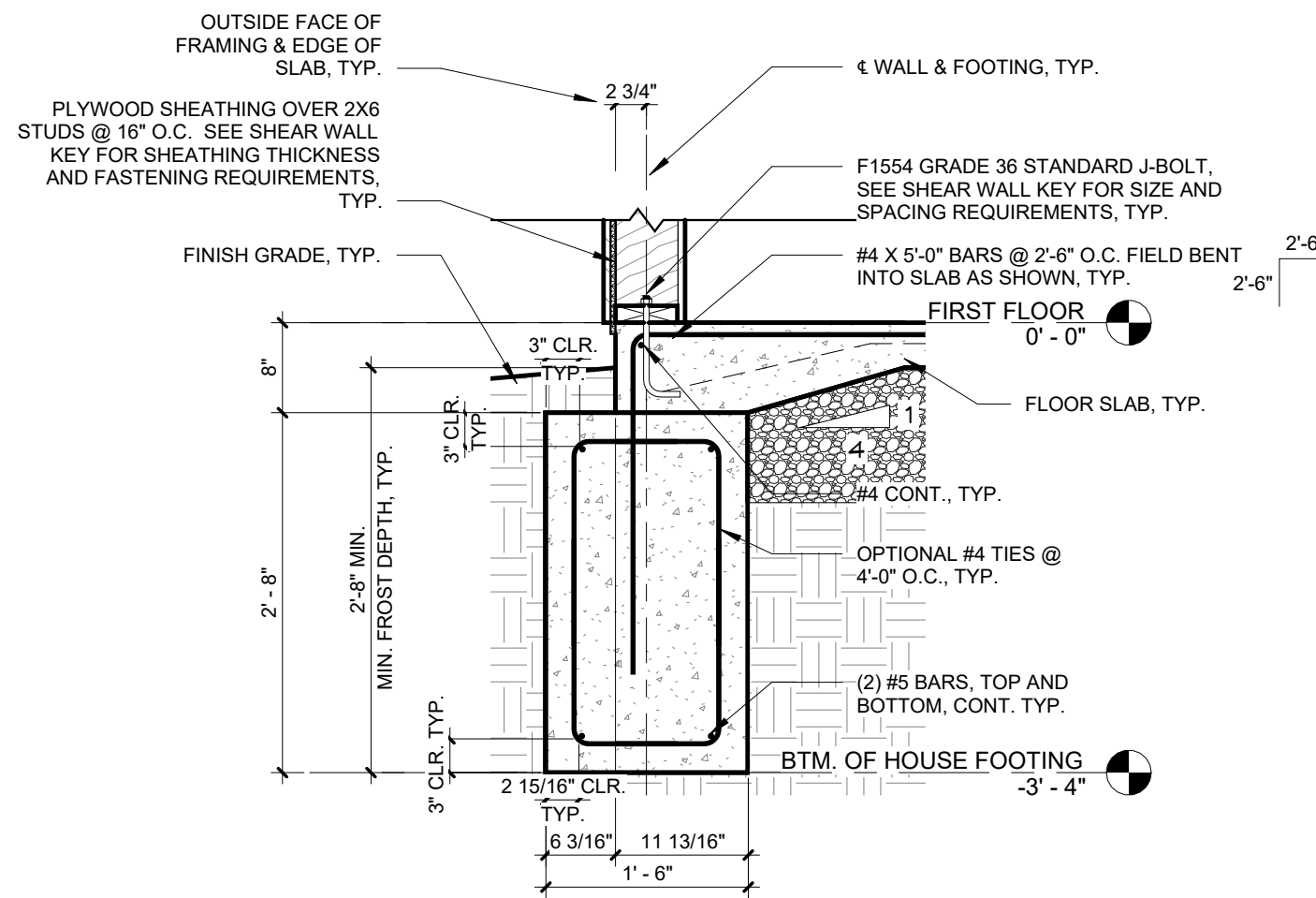
1 FOUNDATION PLAN
1/8" = 1'-0"



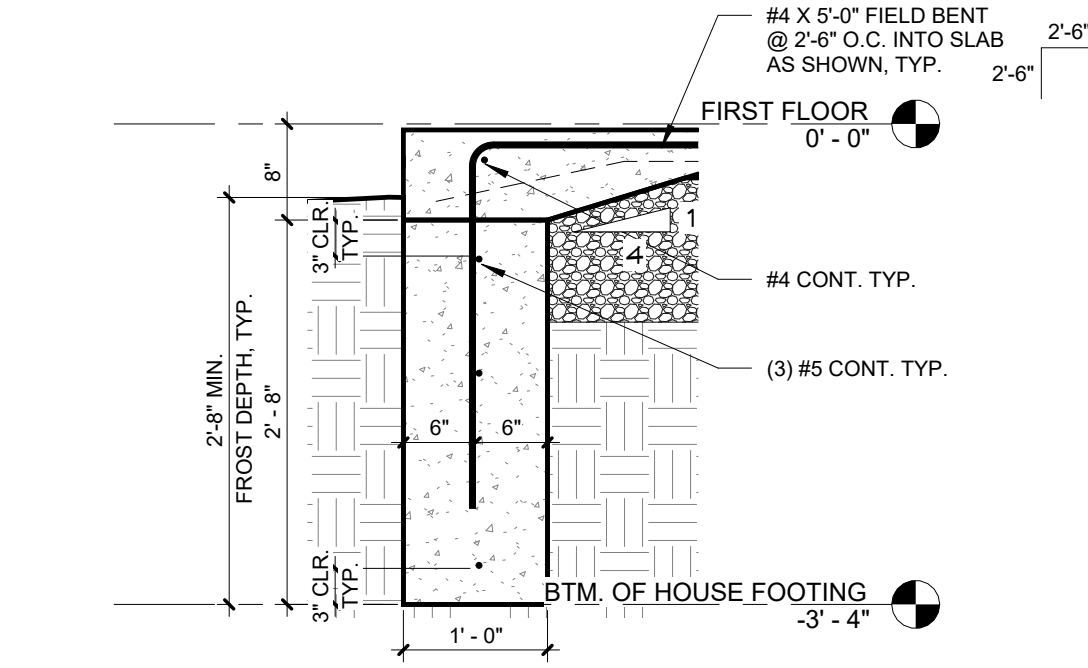
4 FOOTING AT BACK PATIO
3/4" = 1'-0"



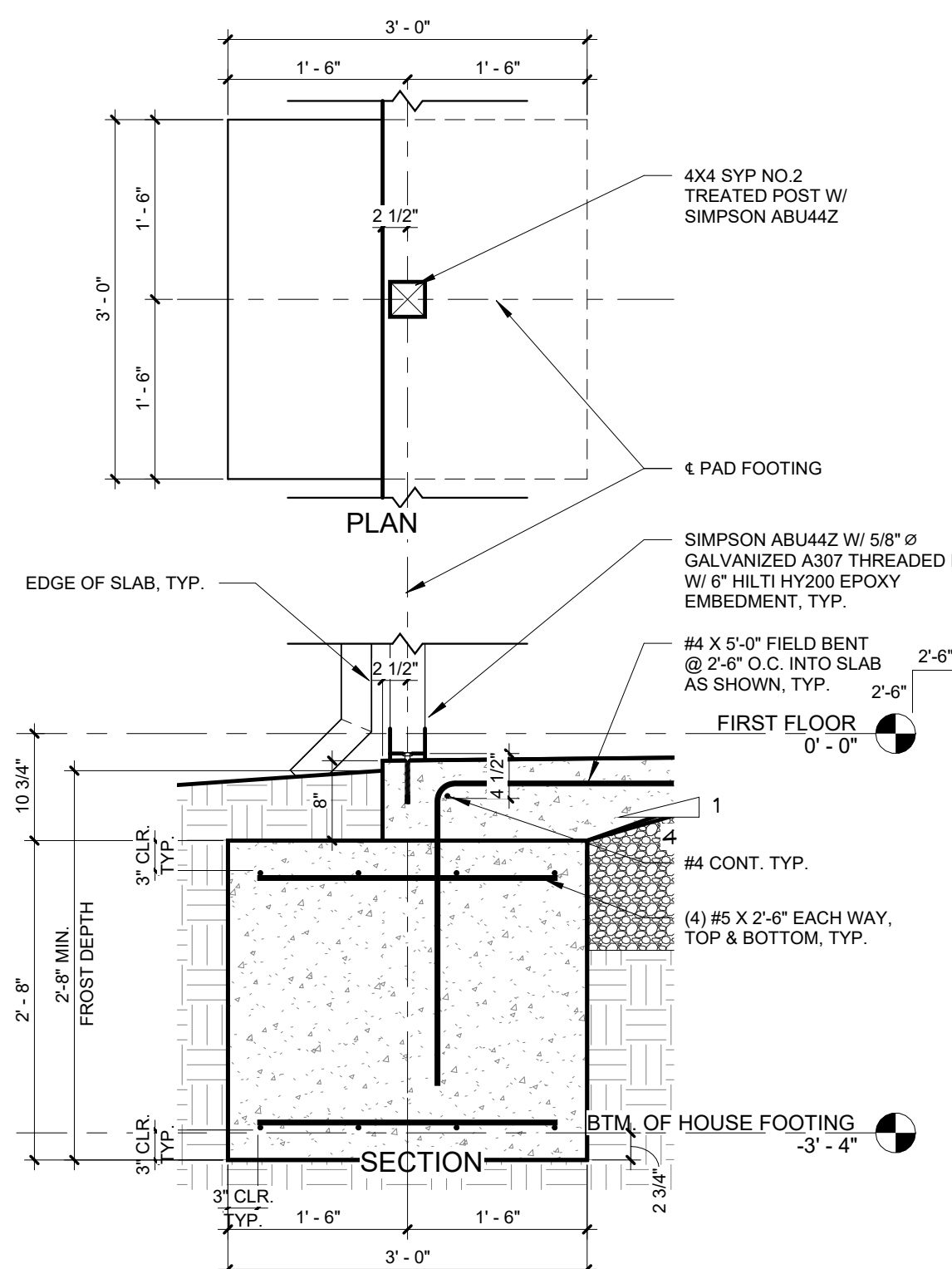
5 CONT. INT. FOOTING
3/4" = 1'-0"



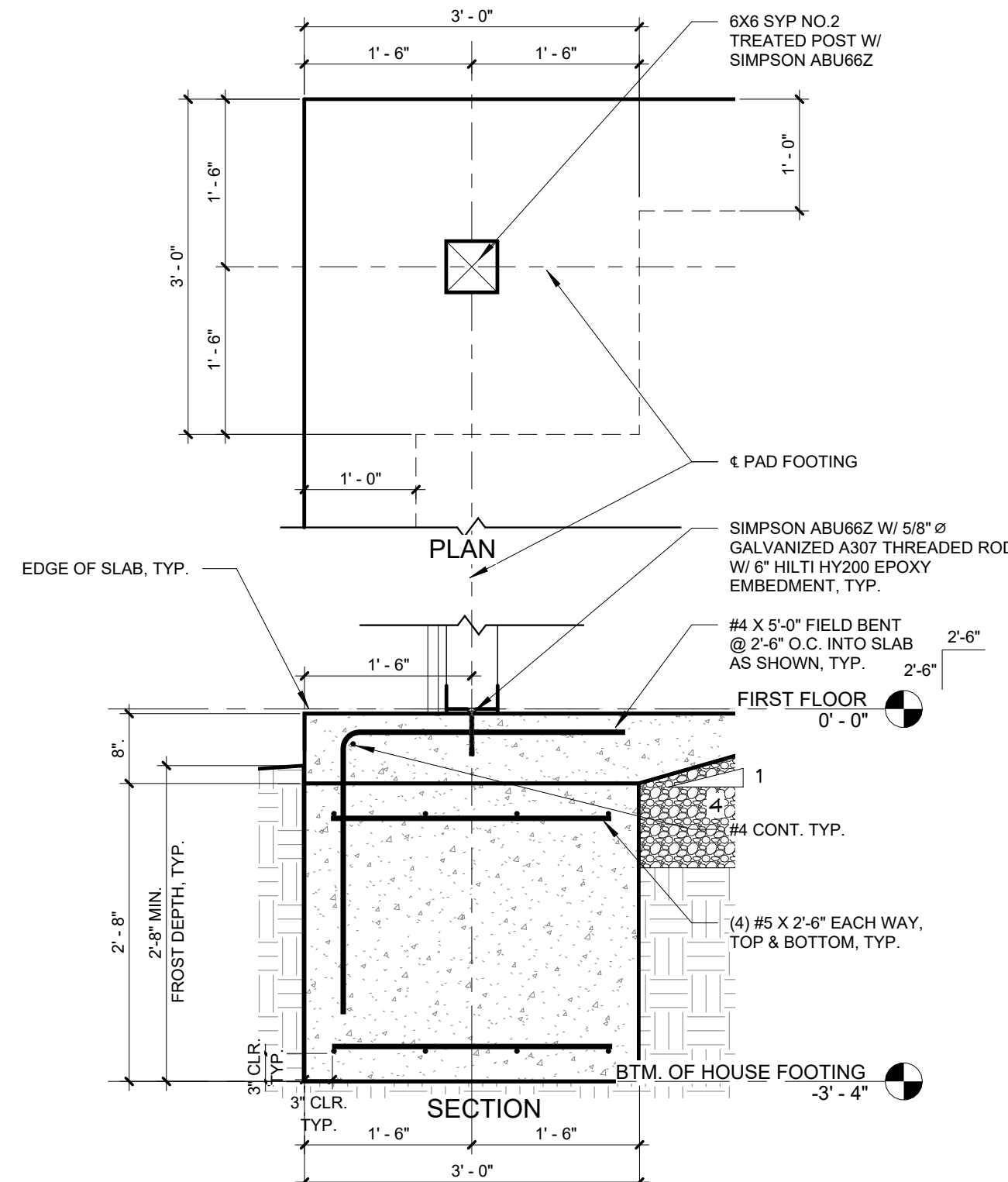
2 TYPICAL FOOTING
3/4" = 1'-0"



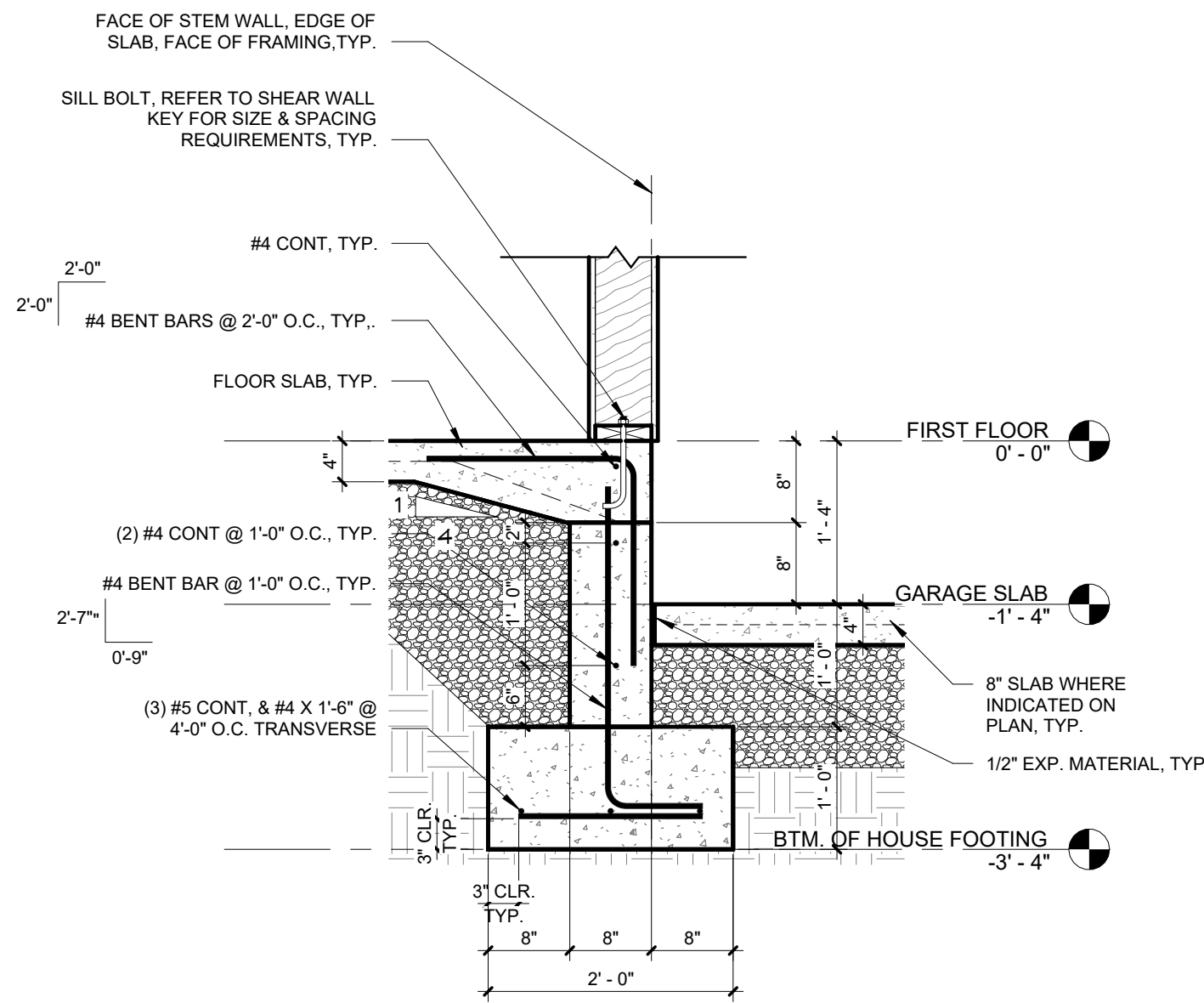
3 FRONT & REAR PORCH CONT. FOOTING
3/4" = 1'-0"



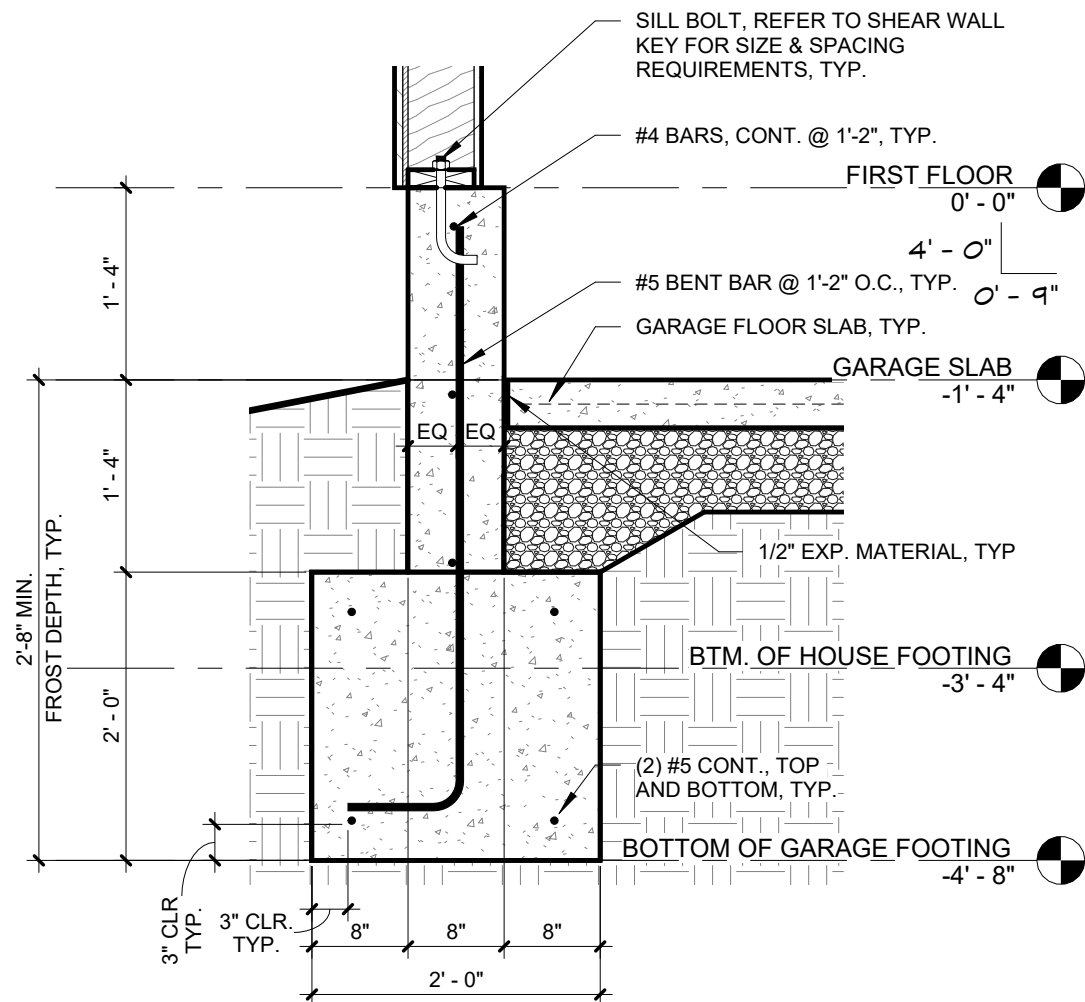
6 REAR PORCH POST FOOTING
3/4" = 1'-0"



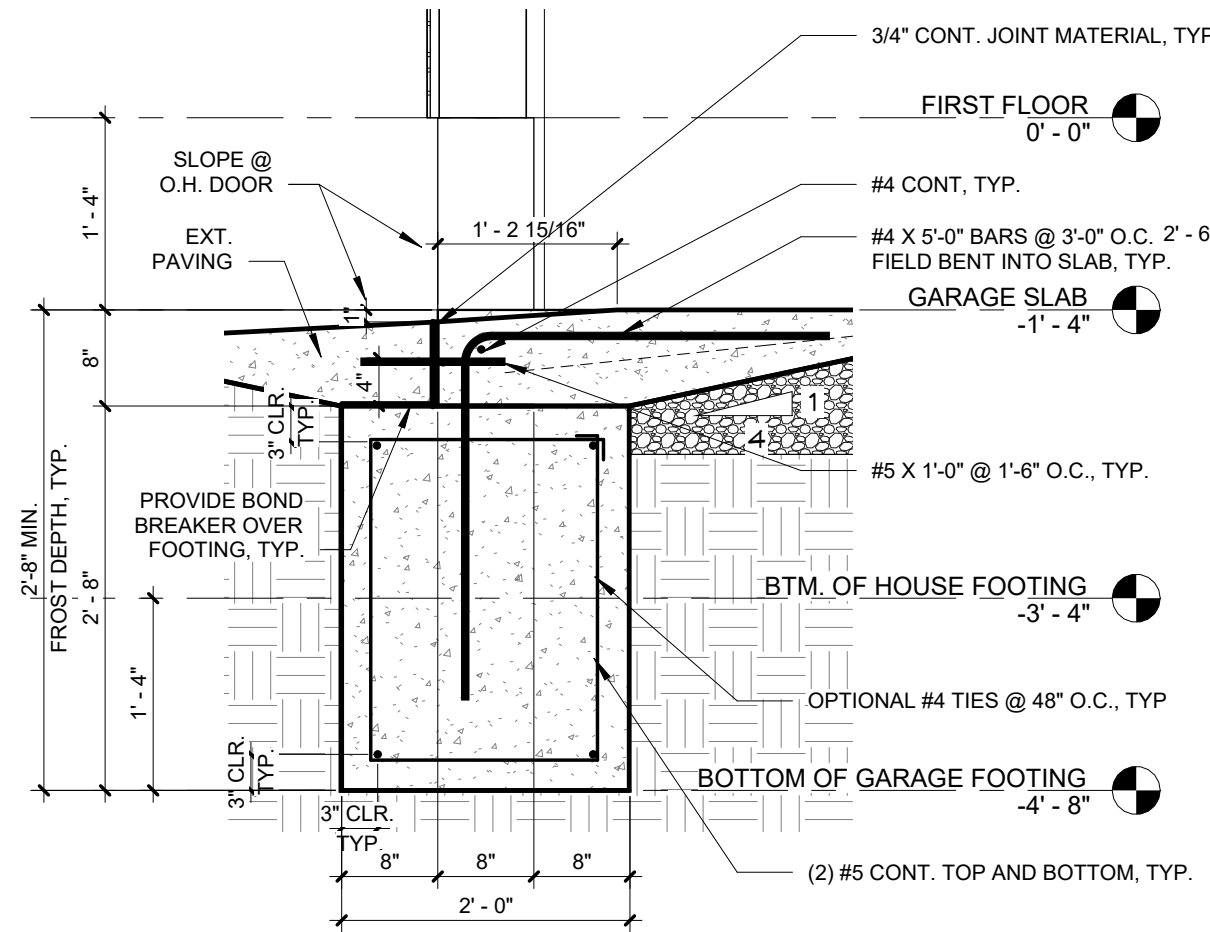
7 FRONT PORCH POST FOOTING
3/4" = 1'-0"



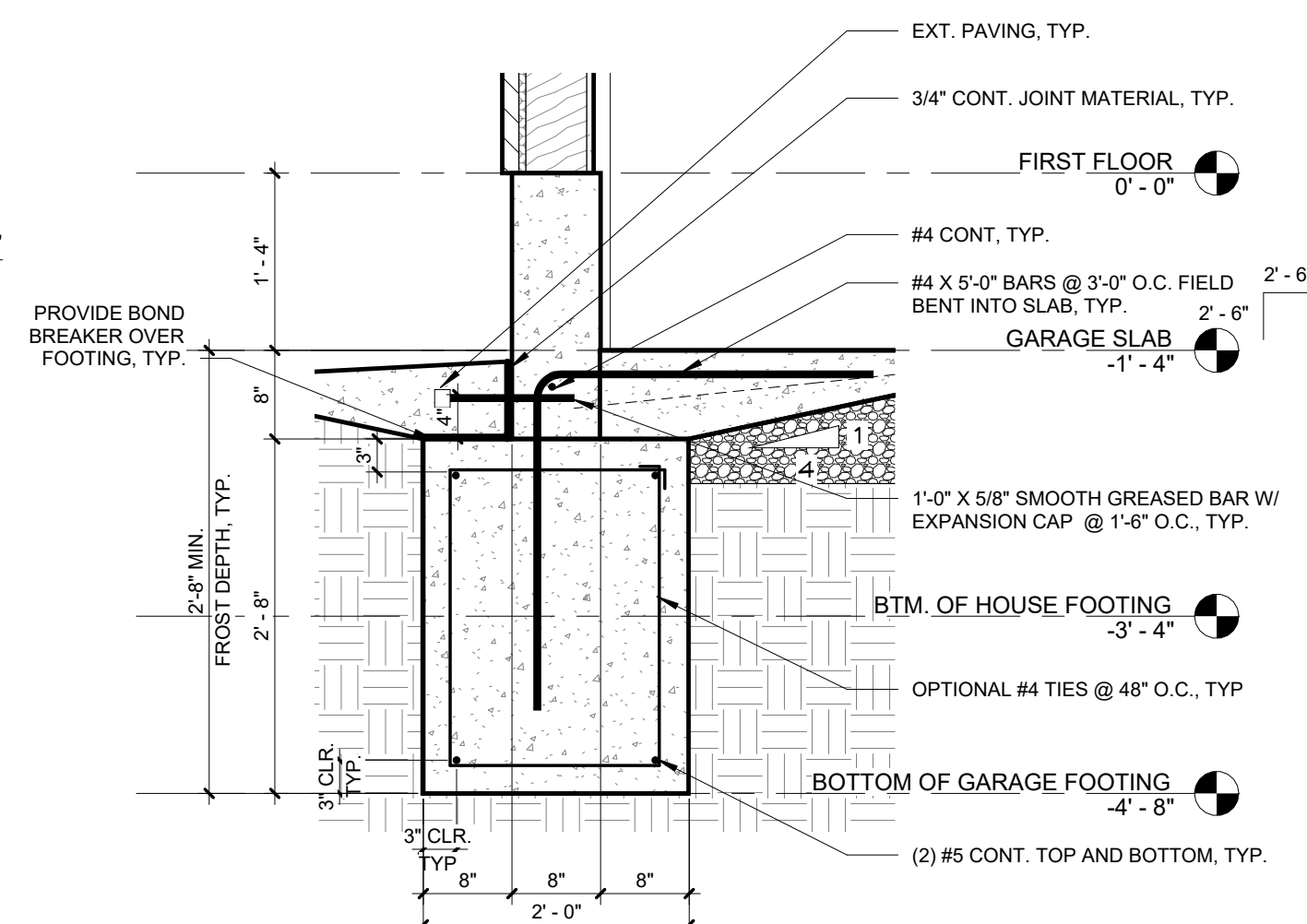
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S-102
INT. GARAGE FOOTING
3/4" = 1'-0"



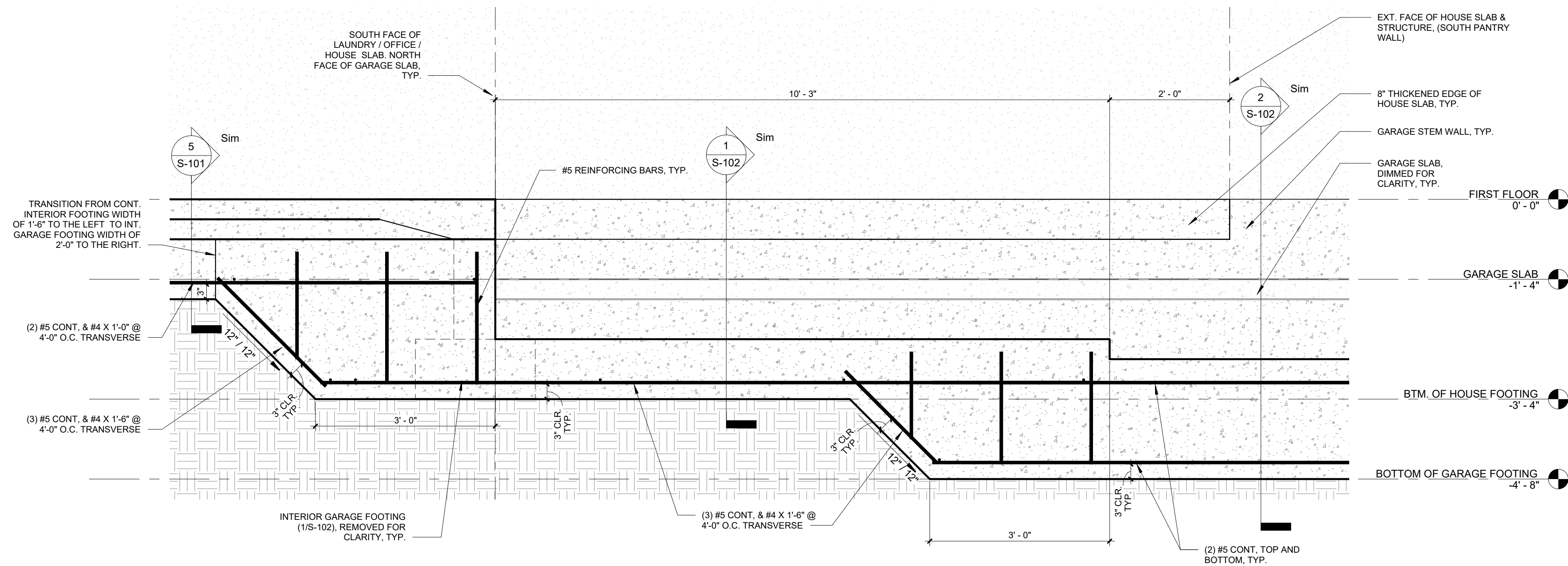
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EXT. GARAGE FOOTING
3/4" = 1'-0"



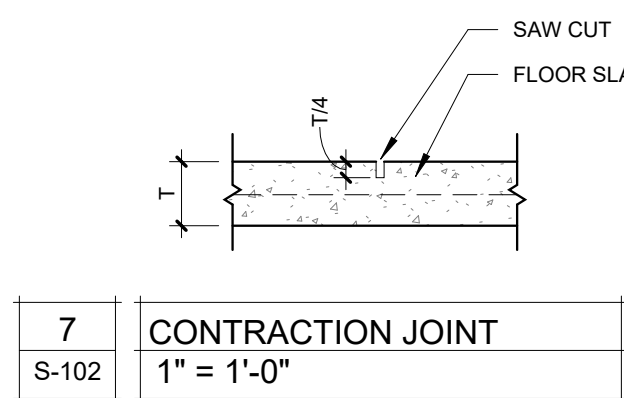
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S-102
GARAGE DETAIL @ O.H. DOOR
3/4" = 1'-0"



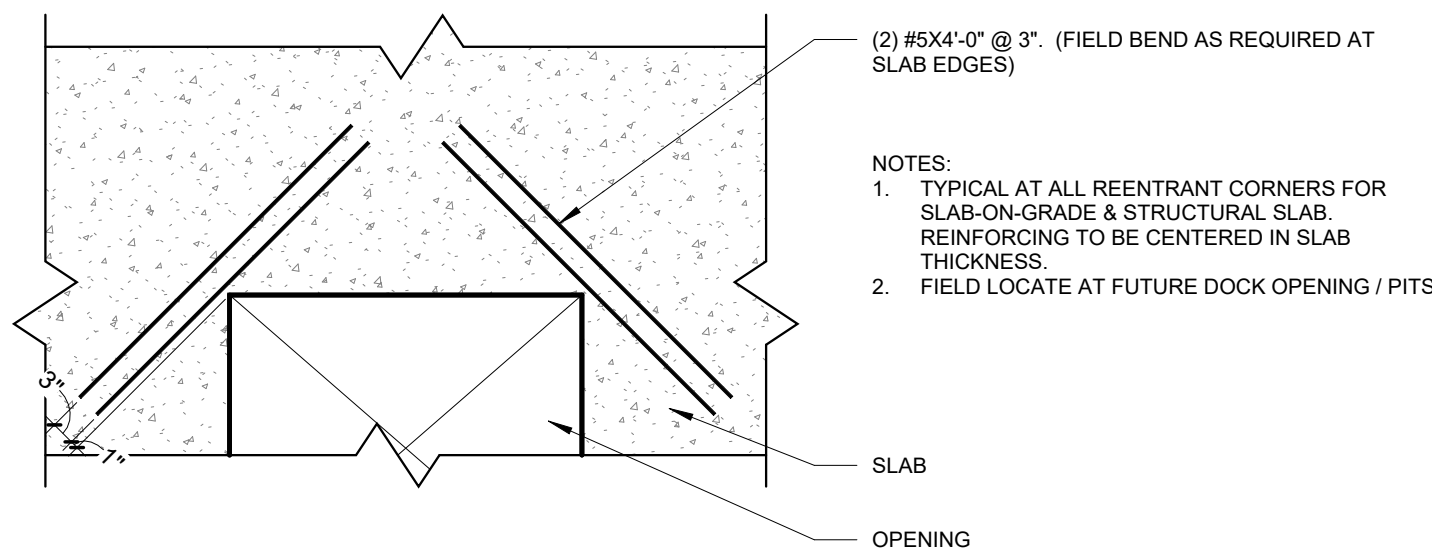
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S-102
GARAGE DETAIL @ STEM WALL
3/4" = 1'-0"



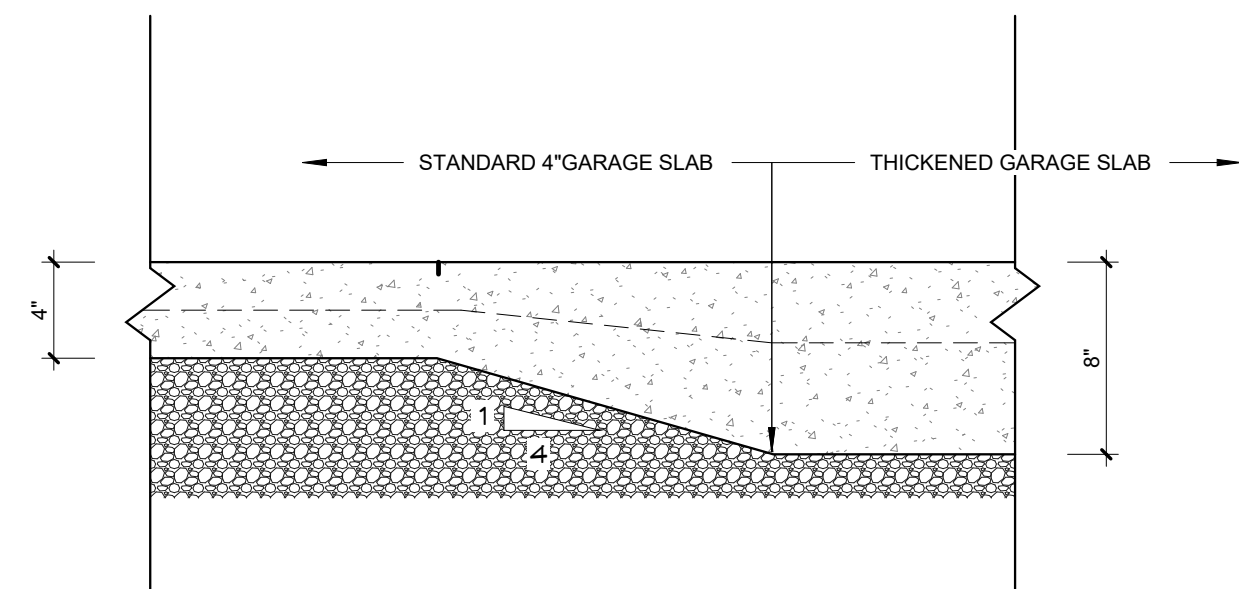
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S-102
GARAGE FOOTING STEP DETAIL
3/4" = 1'-0"



7
S-102
CONTRACTION JOINT
1" = 1'-0"



8
S-102
TYP. CRACK CONTROL REINF.
1/2" = 1'-0"



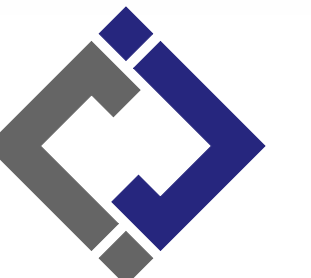
6
S-102
SLAB THICKNESS TRANSITION DETAIL
1 1/2" = 1'-0"



GREGORY L. LINNEMAN - PE
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MISSOURI STATE
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2503 W. 16TH ST
SEDALIA, MO 65301

PROJECT # F2402-01

SITE # 1501

ASSET # 3511501149

REVISION:
DATE:

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DATE:

REVISION:
DATE:

ISSUE DATE: 7/11/2025

BID DOCUMENTS

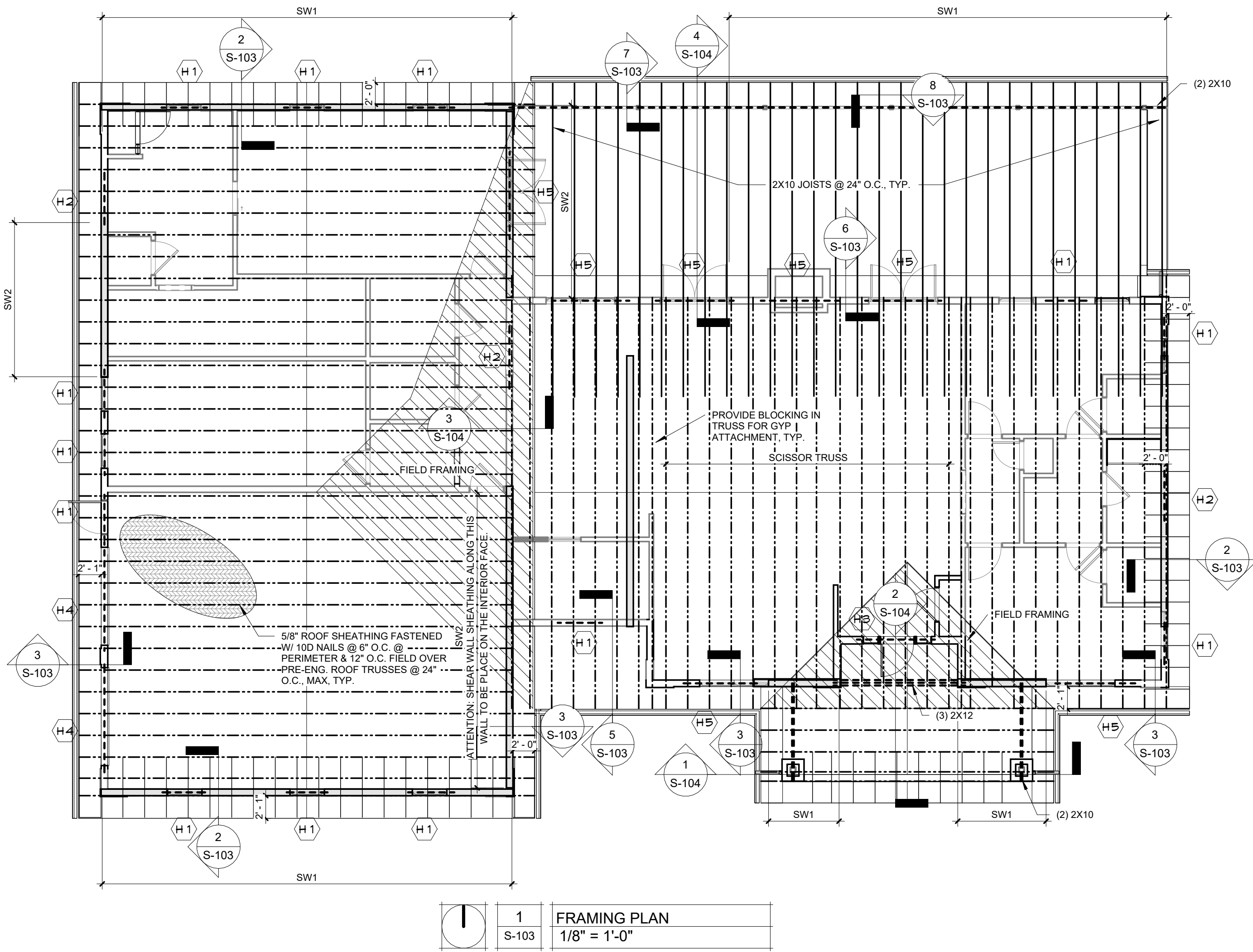
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DRAWN BY: AMK
CHECKED BY: RDR
DESIGNED BY: AMK

SHEET TITLE:

FOUNDATION PLAN
DETAILS

SHEET NUMBER:

S-102



SHEAR WALL KEY

SW1 SHEAR WALL

- 7/16" OSB SHEATHING FASTENED WITH 8D NAILS @ 2" O.C. @ PERIMETER / 12" O.C. FIELD (NOTE: THIS SHEET FASTENING PATTERN REQUIRES 3X OR DOUBLE 2X FRAMING MEMBERS WHERE SHEETS MEET)
- 1/2" DIAMETER F1554 GRADE 36 STANDARD "J" BOLTS W/ 7" EMBEDMENT @ 1'-6" O.C.
- REQUIRES SIMPSON HTT4 HOLDOWN FASTENED TO 2-PLY STUDS W/ (18) 10D NAILS W/ 5/8" DIAMETER A307 THREADED ROD W/ 16" TOTAL (8" INTO FOOTING) SIMPSON "AT-XP" EPOXY EMBEDMENT AT EACH END OF THE SHEAR WALL

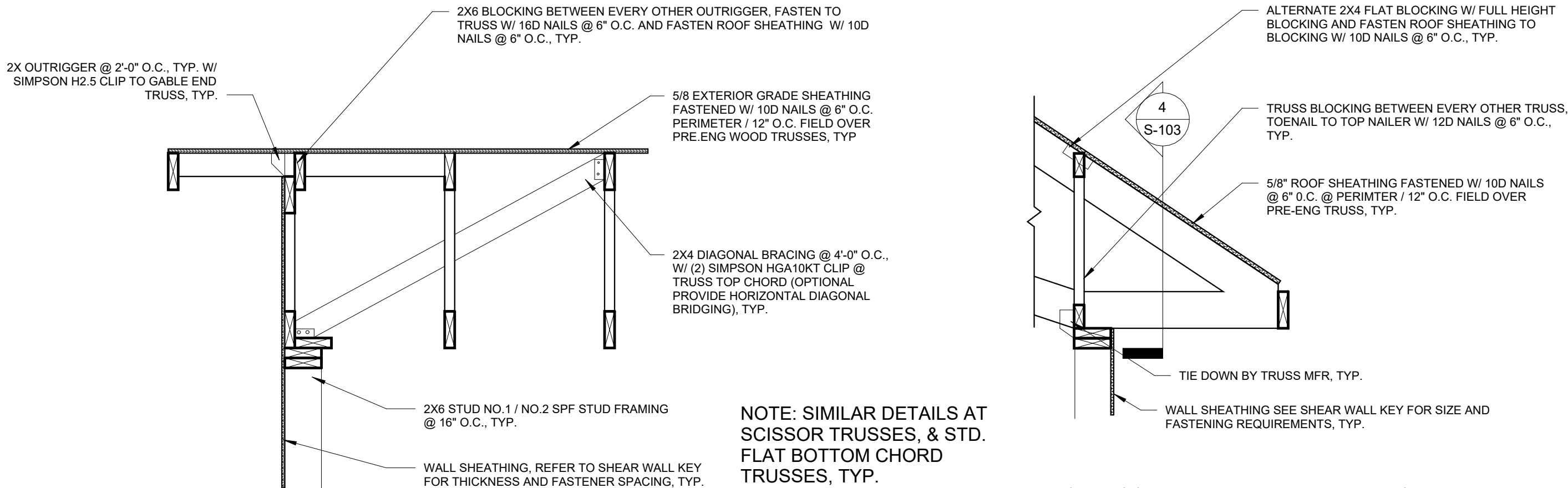
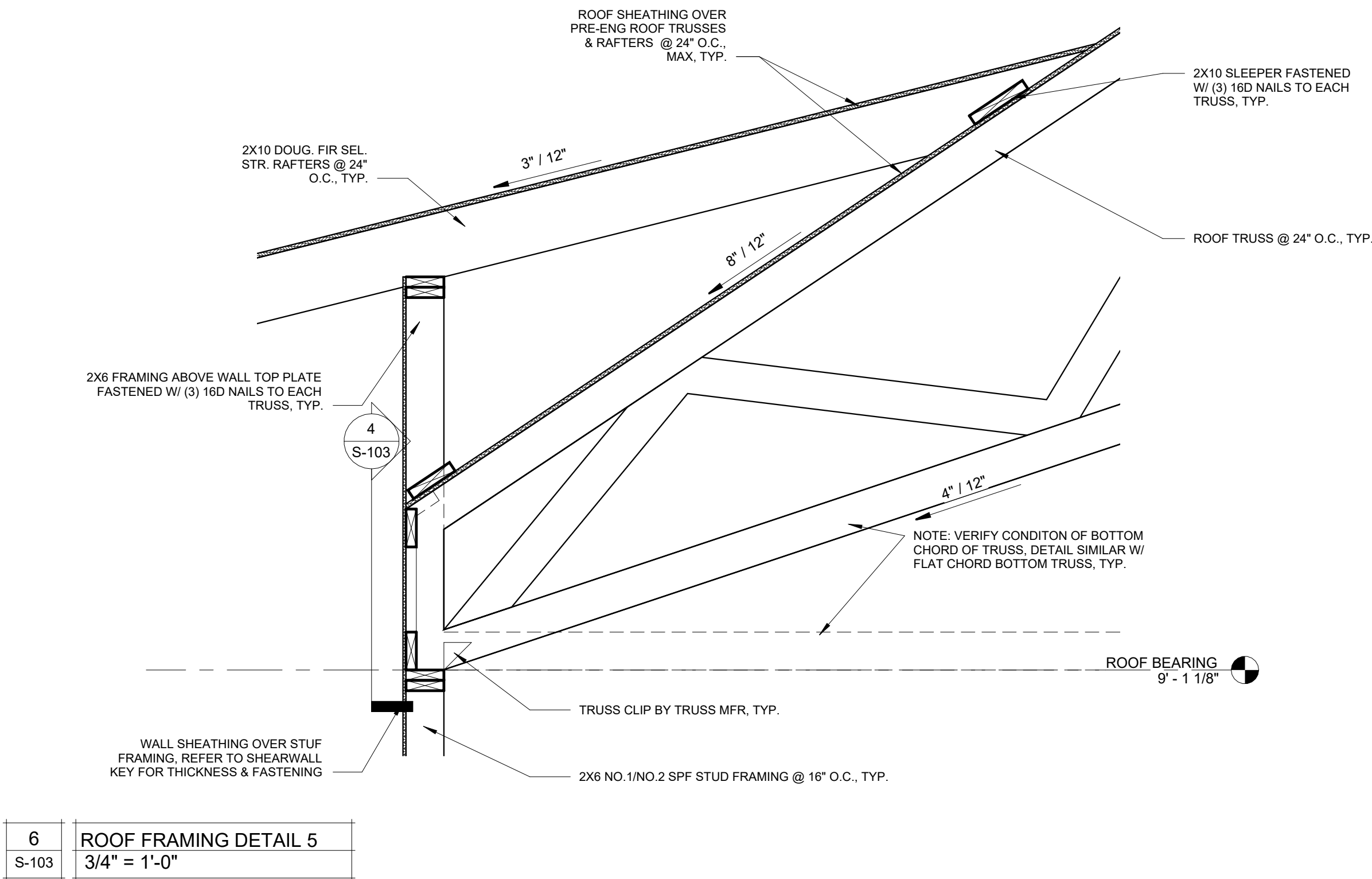
SW2 SHEAR WALL

- 7/16" OSB SHEATHING FASTENED WITH 8D NAILS @ 2" O.C. @ PERIMETER / 12" O.C. FIELD (NOTE: THIS SHEET FASTENING PATTERN REQUIRES 3X OR DOUBLE 2X FRAMING MEMBERS WHERE SHEETS MEET)
- 1/2" DIAMETER F1554 GRADE 36 STANDARD "J" BOLTS W/ 7" EMBEDMENT @ 2'-0" O.C.
- REQUIRES SIMPSON LTP2 HOLDOWN FASTENED TO SINGLE PLY STUD W/ (12) 3/16" X 1-1/2" NAILS W/ 5/8" DIAMETER A307 THREADED ROD W/ 16" TOTAL (8" INTO FOOTING) SIMPSON "AT-XP" EPOXY EMBEDMENT AT EACH END OF THE SHEAR WALL

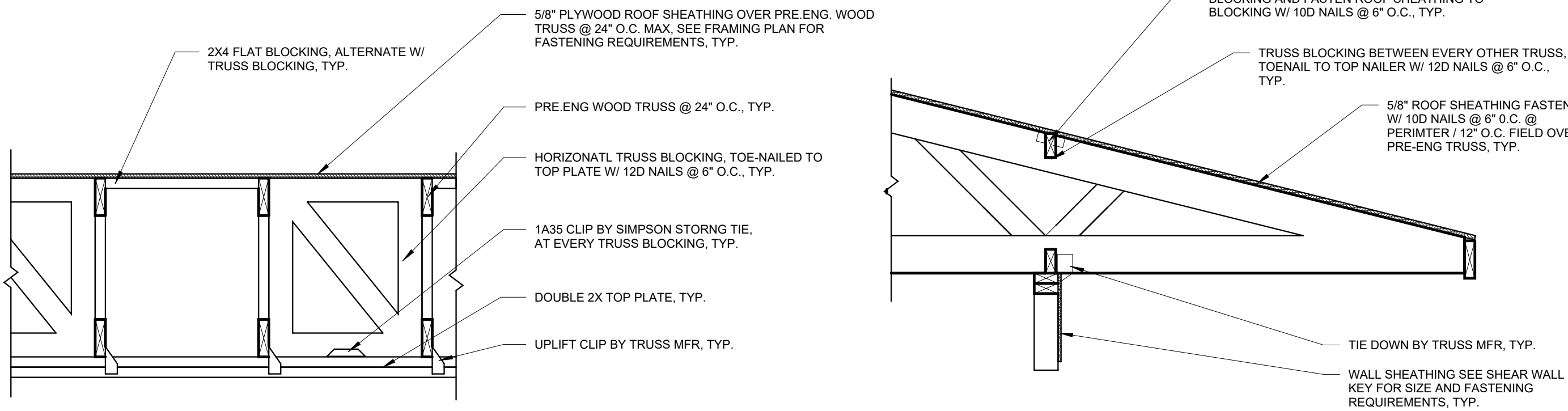
SW3 SHEAR WALL (TYPICAL UNLESS NOTED)

- 7/16" OSB SHEATHING FASTENED WITH 8D NAILS @ 4" O.C. @ PERIMETER / 12" O.C. FIELD
- 1/2" DIAMETER F1554 GRADE 36 STANDARD "J" BOLTS W/ 7" EMBEDMENT @ 3'-0" O.C.
- NO HOLDDOWNS REQUIRED

| HEADER SCHEDULE | | | |
|-----------------|-----------------------------------|-----------------------|-----------------------|
| LABEL | HEADER | CRIPPLE/JACK | JAMB/KING |
| "H1" | 2 Ply 2x6 SPF #2 | Single Ply 2x6 SPF #2 | Single Ply 2x6 SPF #2 |
| "H2" | 2 Ply 2x8 Doug. Fir #2 | Single Ply 2x6 SPF #2 | Single Ply 2x6 SPF #2 |
| "H3" | 2 Ply 2x10 Doug. Fir Sel. Struct. | 2 Ply 2x6 SPF #2 | 2 Ply 2x6 SPF #2 |
| "H4" | 3 Ply 2x10 Doug. Fir Sel. Struct. | 2 Ply 2x6 SPF #2 | 2 Ply 2x6 SPF #2 |

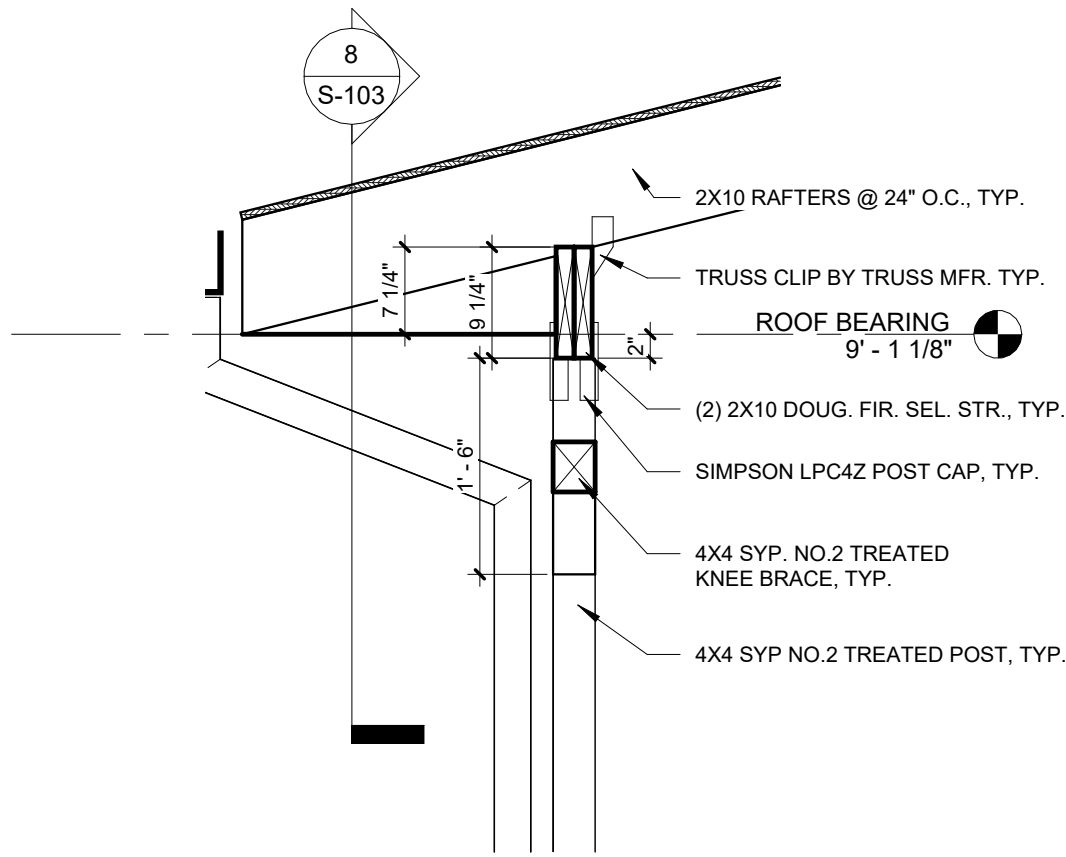


3 ROOF FRAMING DETAIL 2
S-103 3/4" = 1'-0"

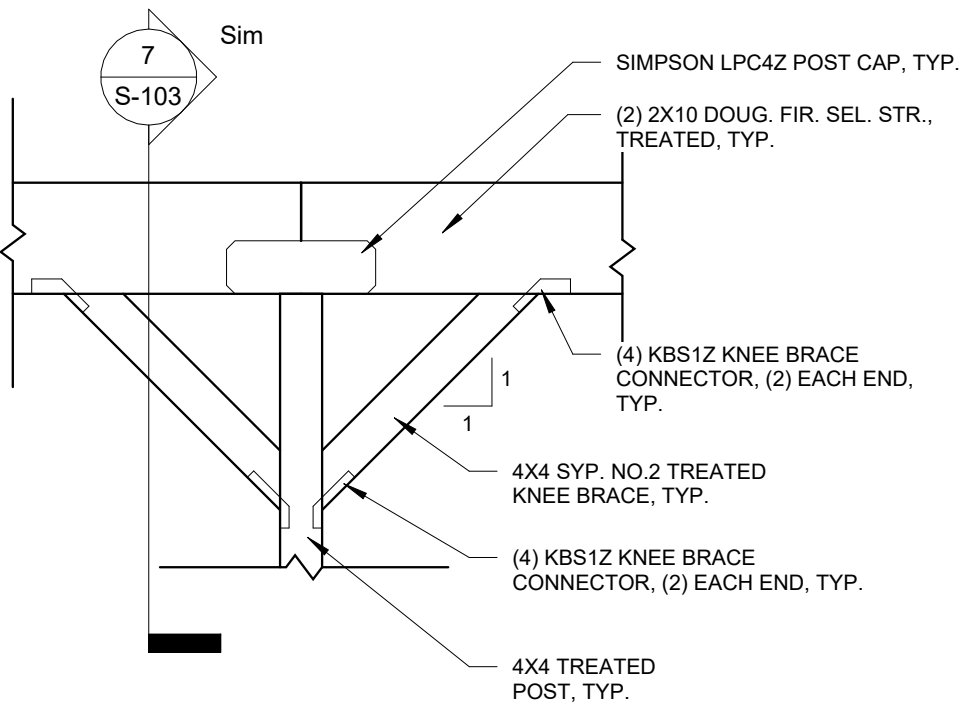


4 ROOF FRAMING DETAIL 3
S-103 3/4" = 1'-0"

5 ROOF FRAMING DETAIL 4
S-103 3/4" = 1'-0"



7 BEAM FRAMING DETAIL
S-103 3/4" = 1'-0"



8 BEAM TO POST FRAMING SECTION
S-103 3/4" = 1'-0"

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



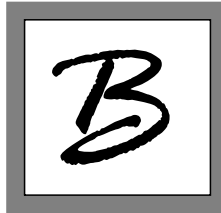
GREGORY L. LINNEMAN - PE
MO LICENSE - 2005001013
Robert D. Rollings 2005001208, Certificate of Authority # A-2006003870



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ASSET # 3511501149

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DATE:

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CAD DWG FILE: S-RP-13
DRAWN BY: AMK
CHECKED BY: RDR
DESIGNED BY: AMK

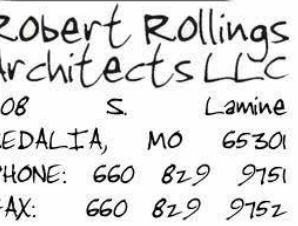
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**FRAMING PLAN &
DETAILS**

SHEET NUMBER:

S-103

STATE OF MISSOURI
GREGORY L. LINNEMAN
NUMBER
PE-2005001013
07/11/2025
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MO LICENSE - 2005001013
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CHECKED BY: RDR
DESIGNED BY: AMK

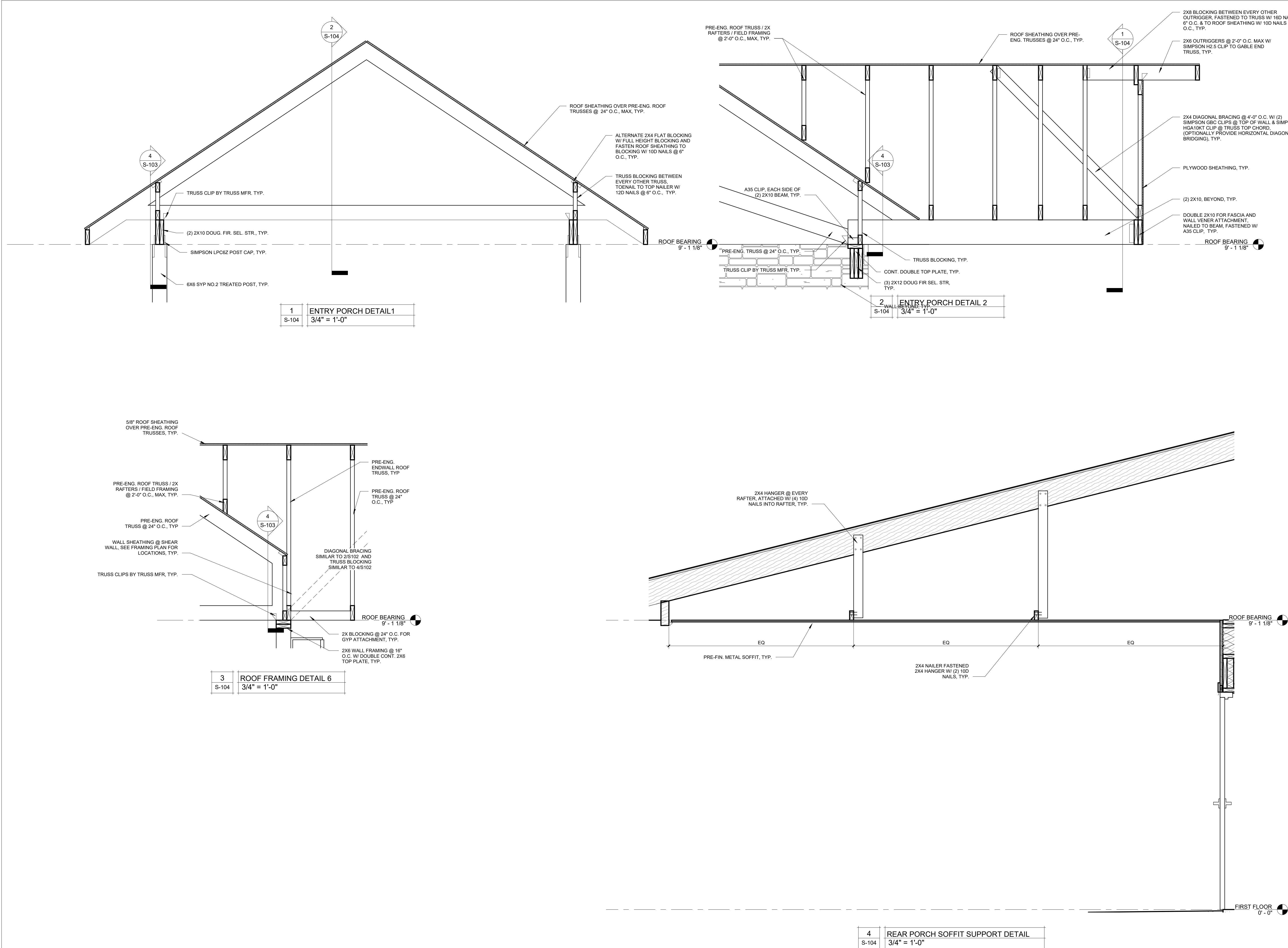
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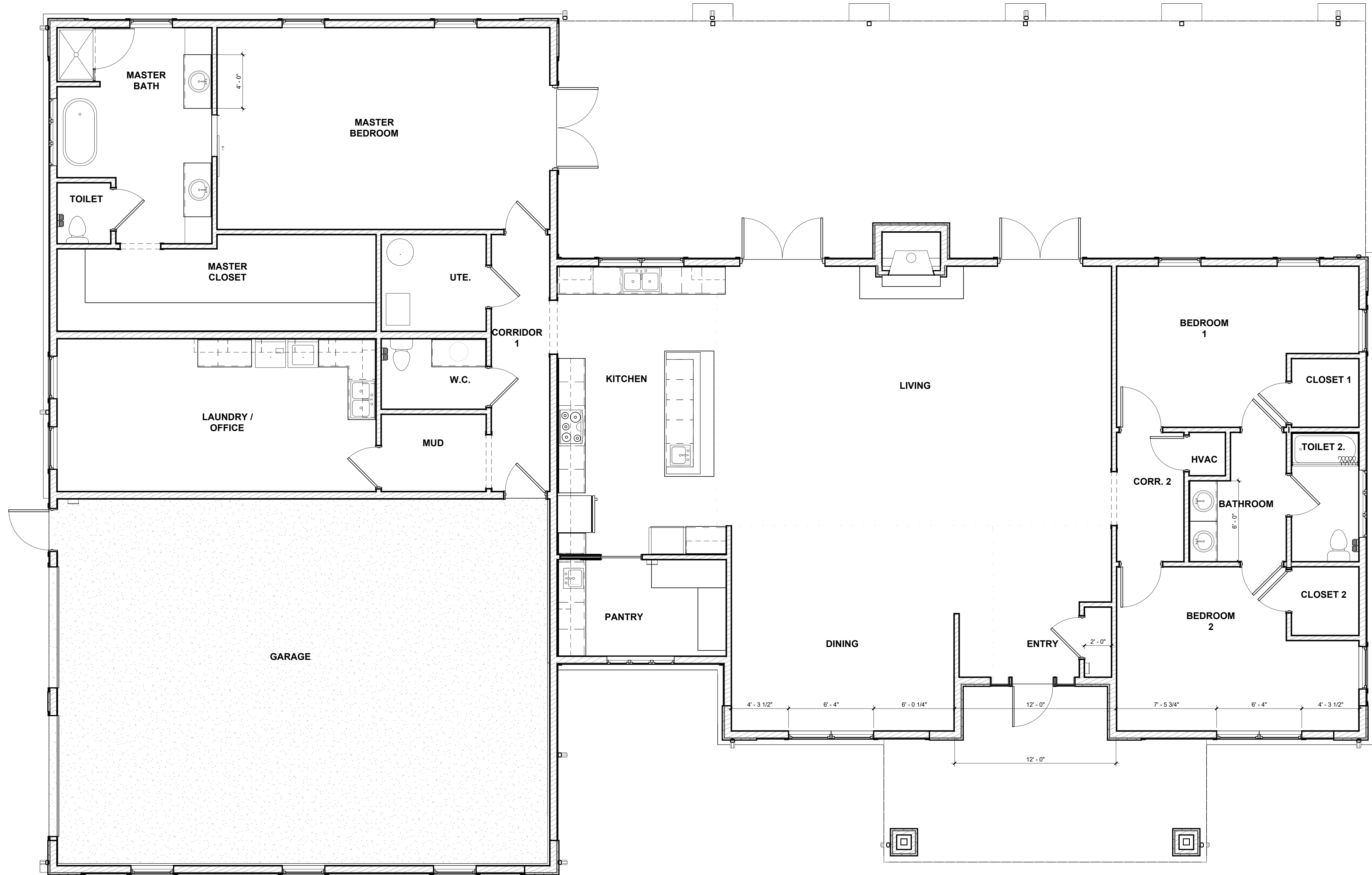
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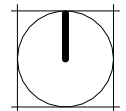
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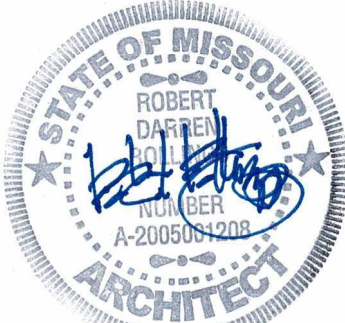
PAGE 14 OF 36
7/11/2025





| | | |
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|  | 1 | FLOOR PLAN |
| | A-101 | 1/4" = 1'-0" |

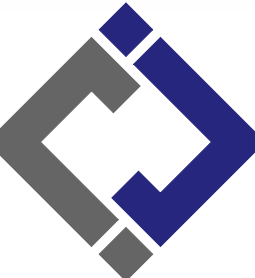
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MIKE KEHOE,
GOVERNOR



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PROJECT # F2402-01

SITE # 1501
ASSET # 3511501149

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DRAWN BY: AMK
CHECKED BY: RDR
DESIGNED BY: AMK

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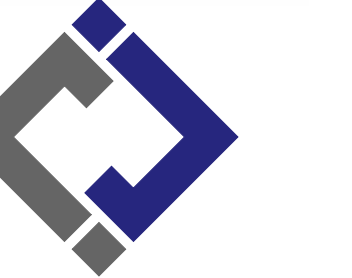
FLOOR PLANS

SHEET NUMBER:

A-101



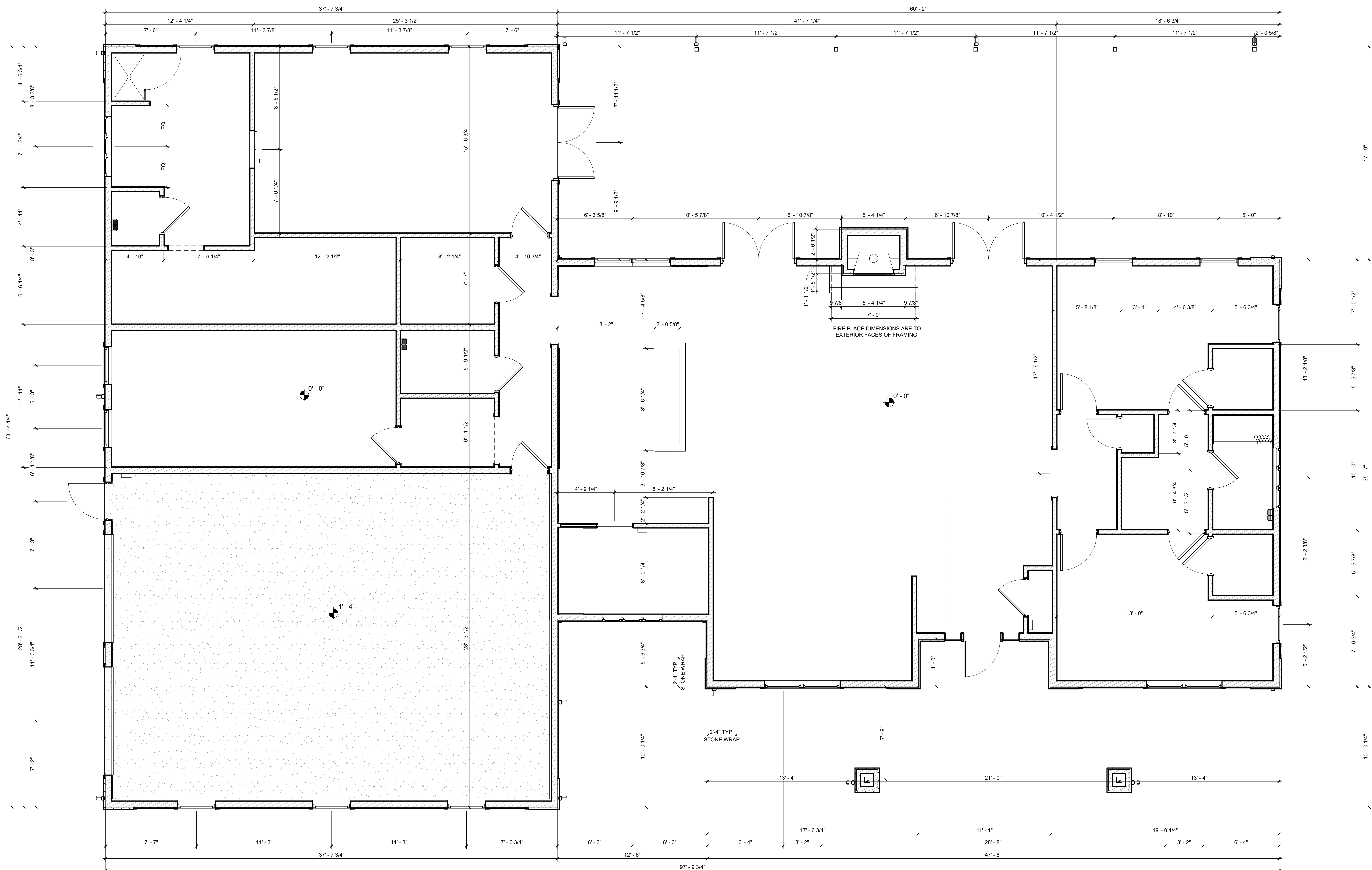
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A-102

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7/11/2025



NOTE:
ALL DIMENSIONS ARE TO EXTERIOR
FACE OF EXTERIOR FRAMING, NORTH
AND EAST FACES OF INTERIOR
FRAMING, AND CENTER LINE OF
COLUMNS, TYP.

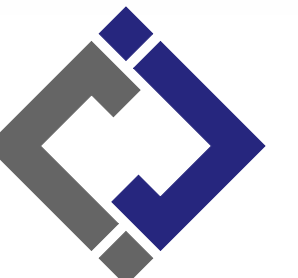
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|  | 1 | FIRST FLOOR DIMENSION PLAN |
| | A-102 | 1/4" = 1'-0" |



Robert D. Rollings 2009001208, Certificate of Authority # A-2006003870



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PROJECT # F2402-01
SITE # 1501
ASSET # 3511501149

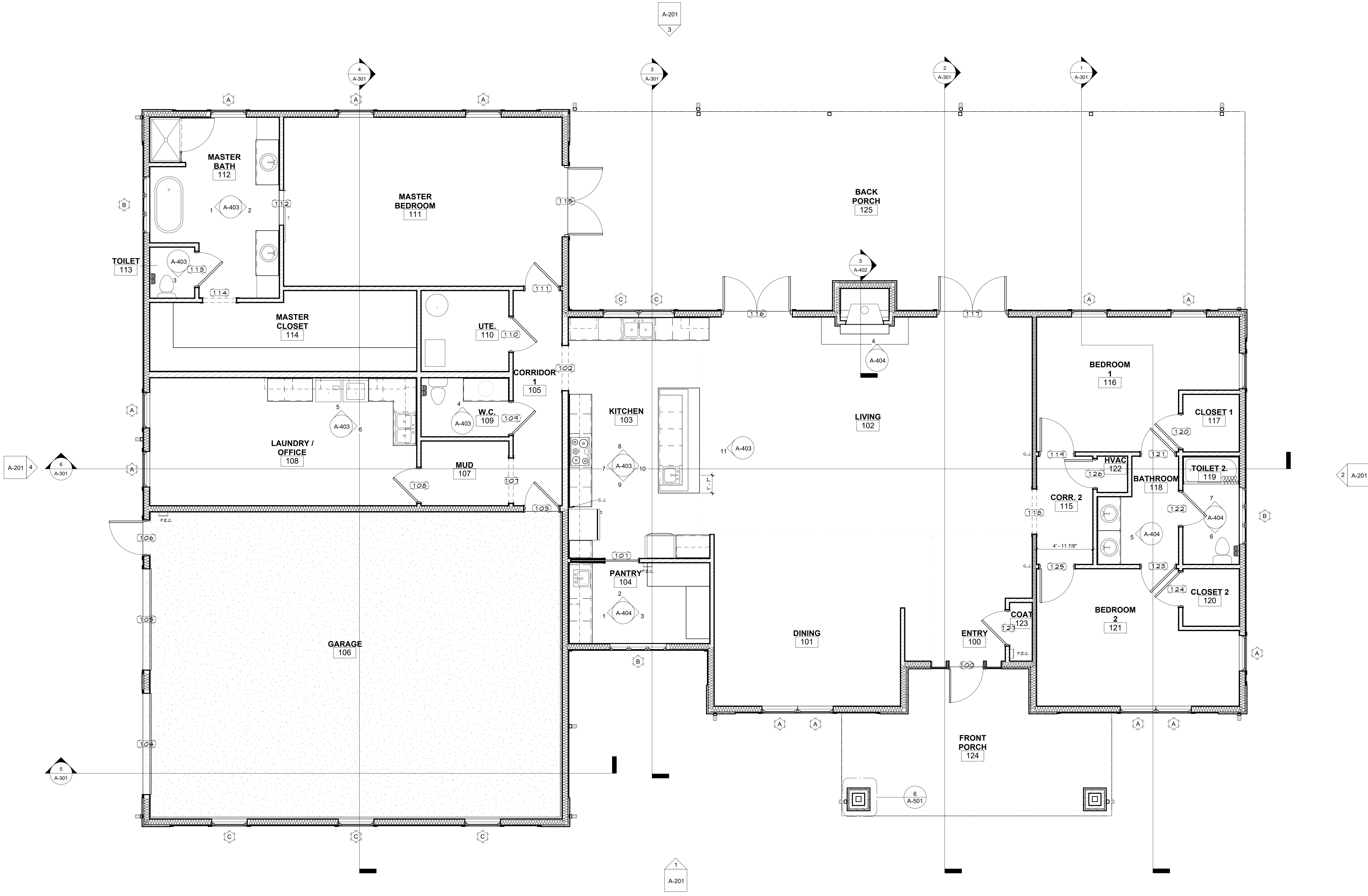
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ISSUE DATE: 7/11/2025
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DRAWN BY: AMK
CHECKED BY: RDR
DESIGNED BY: AMK
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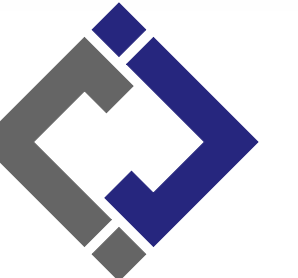
A-103



1
A-103
FIRST FLOOR REFERENCE PLAN
1/4" = 1'-0"



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PROJECT # F2402-01

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DATE: _____

ISSUE DATE: 7/11/2025

BID DOCUMENTS

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CHECKED BY: RDR
DESIGNED BY: AMK

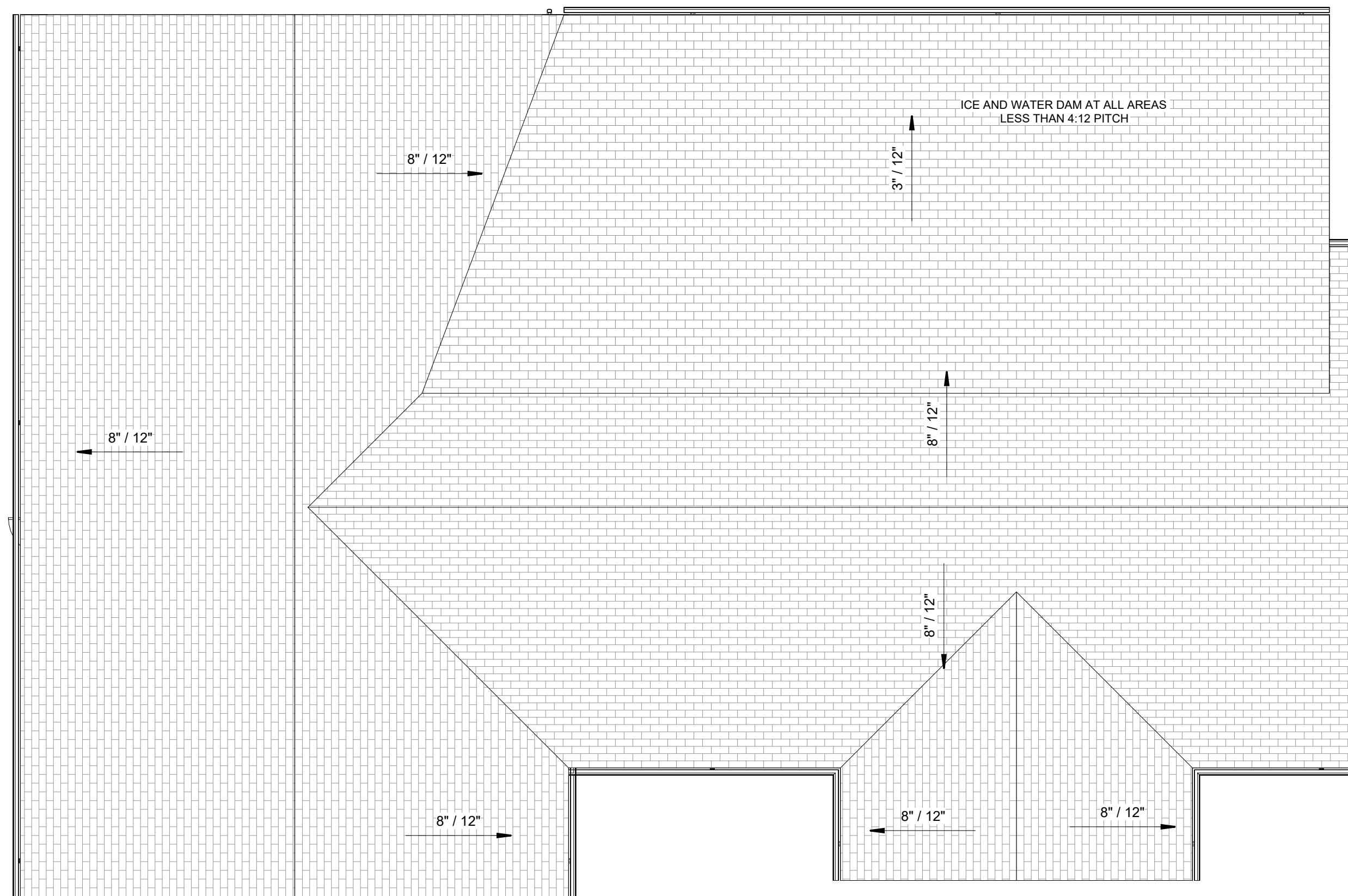
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ROOF PLAN &
REFLECTED CEILING
PLAN

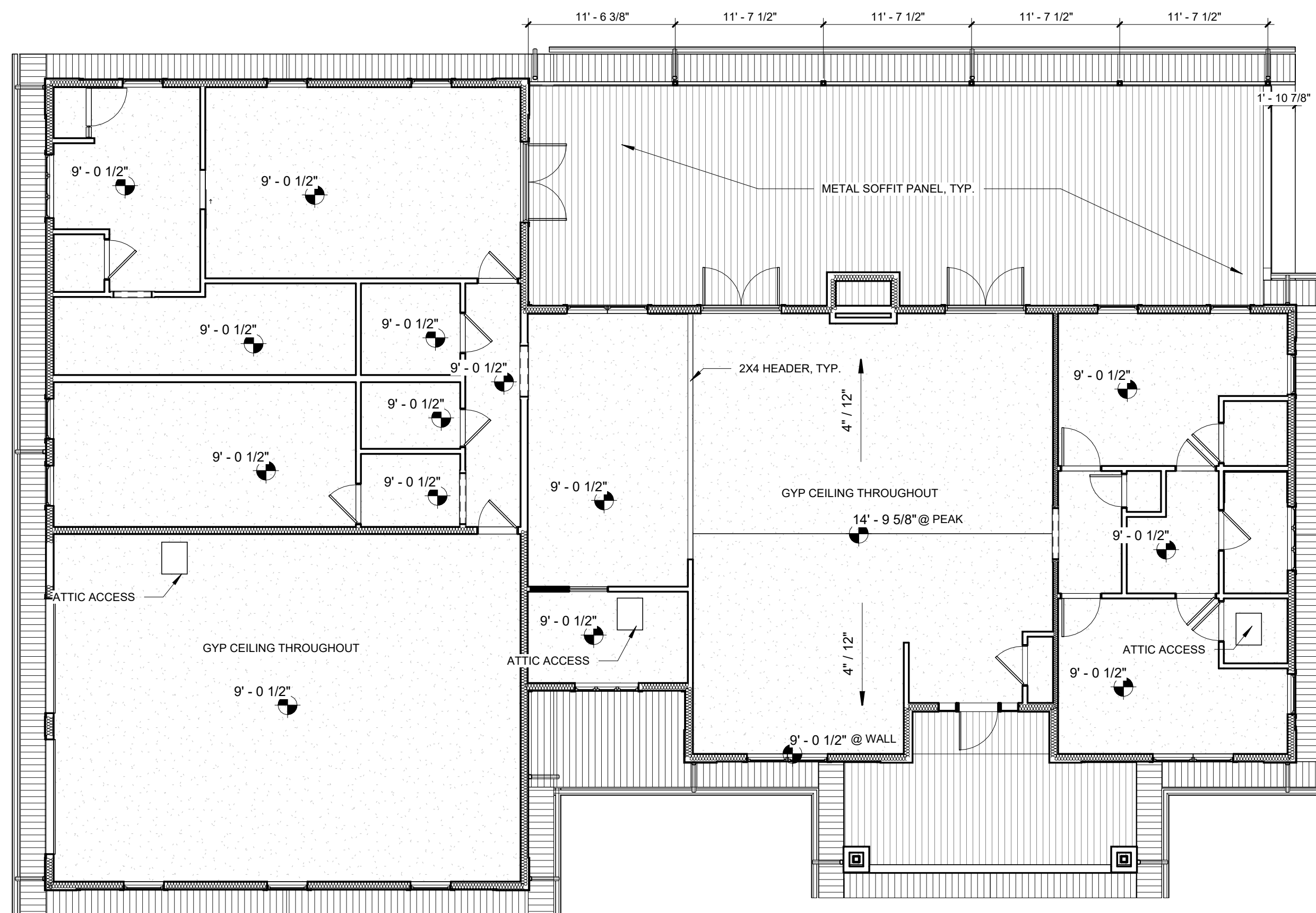
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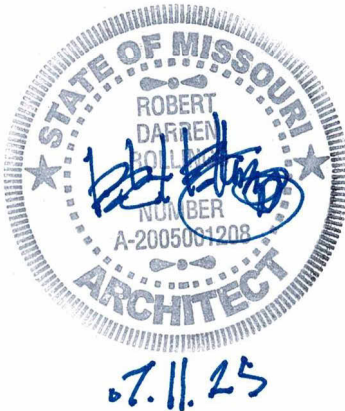
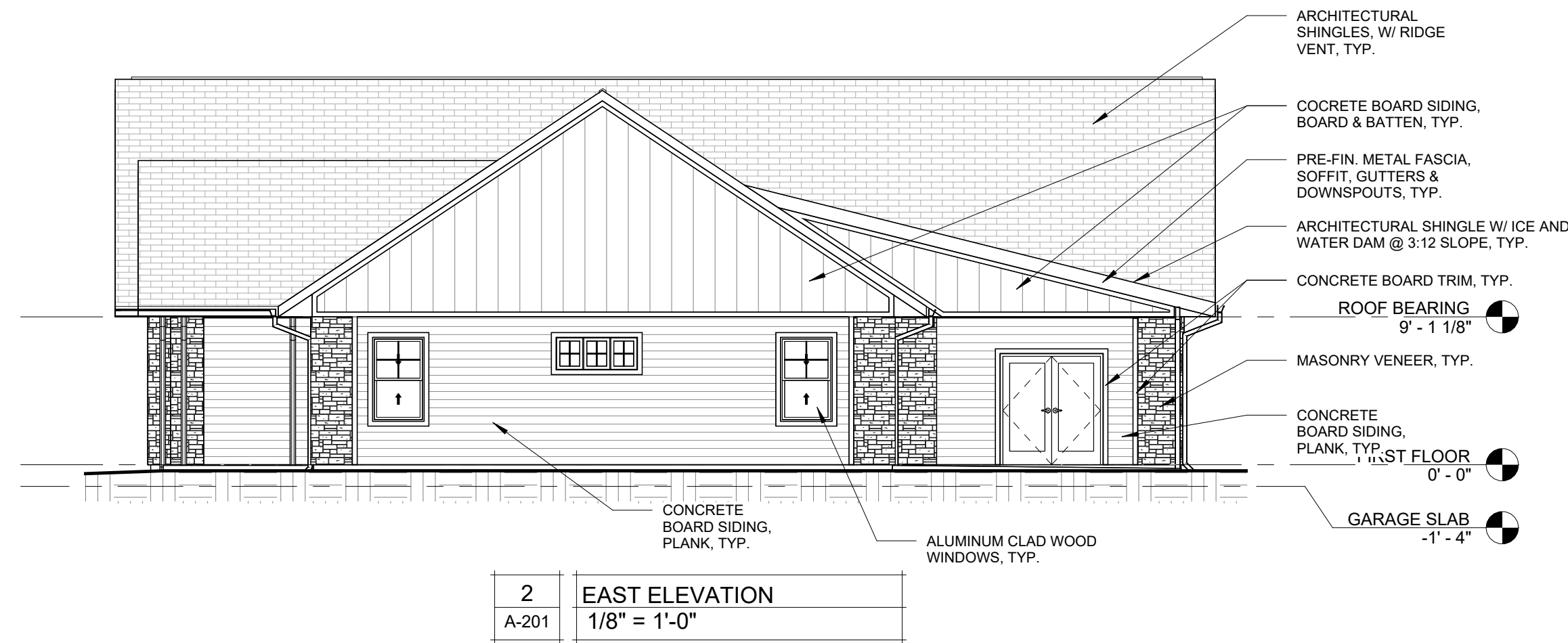
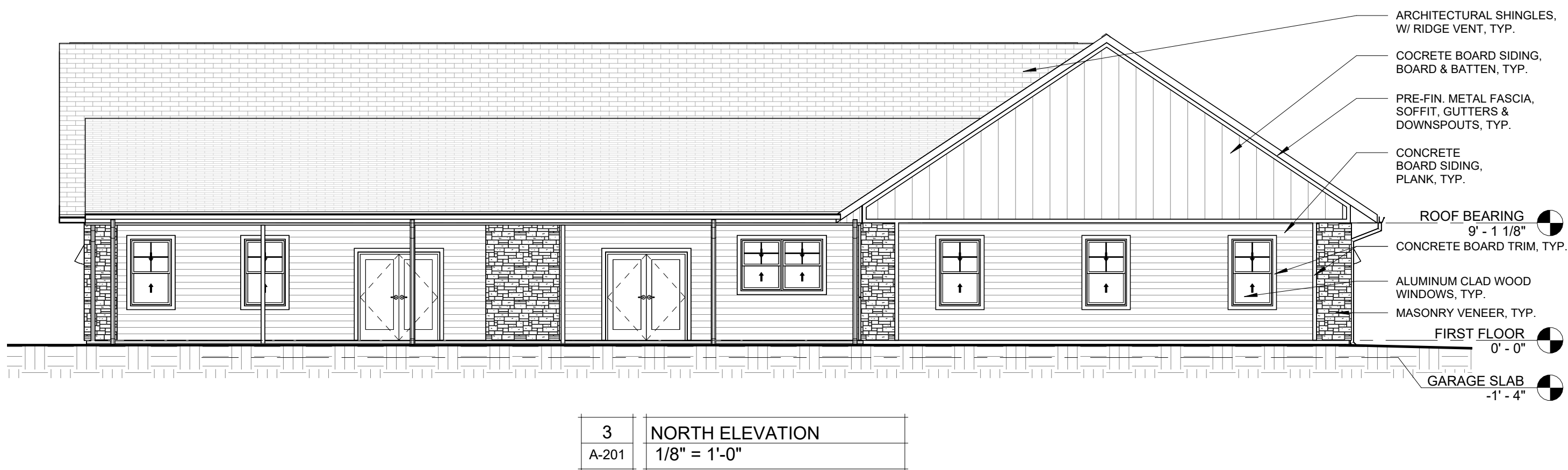
PAGE 18 OF 36
7/11/2025



| | | |
|---|-------|--------------|
|  | 1 | ROOF PLAN |
| | A-104 | 1/8" = 1'-0" |



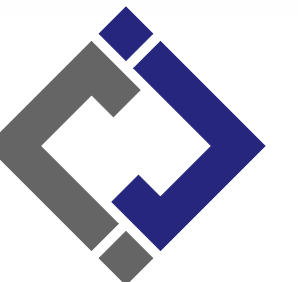
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|  | 2 | REFLECTED CEILING PLAN |
| | A-104 | 1/8" = 1'-0" |



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CONSTRUCTION

DIRECTOR'S HOUSE

MISSOURI STATE
FAIRGROUNDS
2503 W. 16TH ST
SEDALIA, MO 65301

PROJECT # F2402-01

SITE # 1501

ASSET # 3511501149

REVISION:
DATE:

REVISION:
DATE:

REVISION:
DATE:

ISSUE DATE: 7/11/2025

BID DOCUMENTS

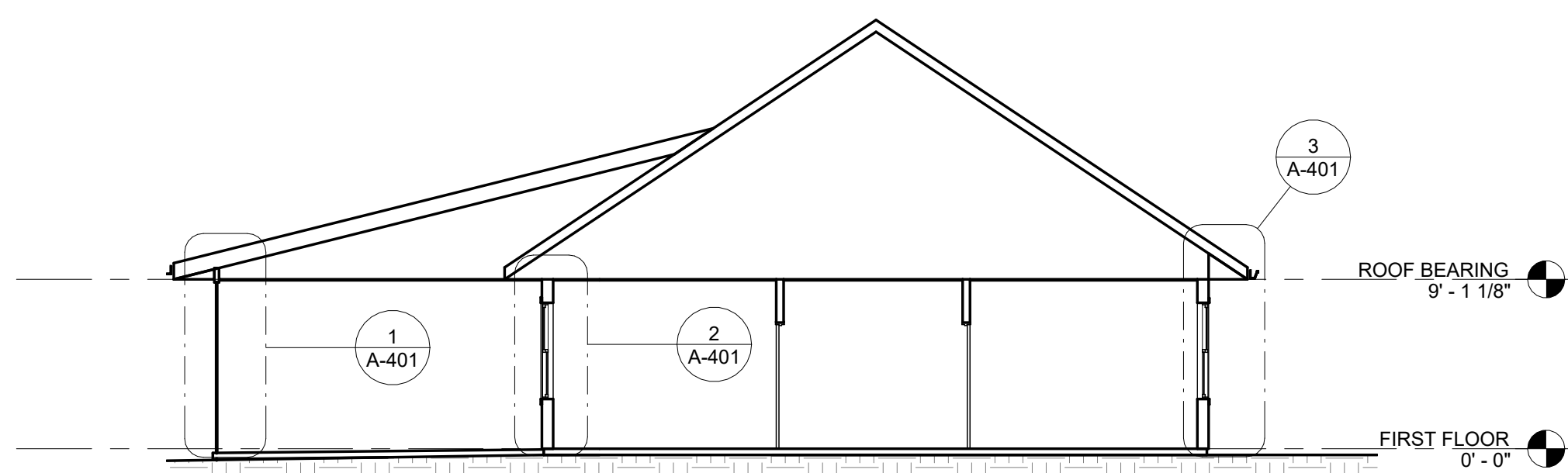
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DRAWN BY: AMK
CHECKED BY: RDR
DESIGNED BY: AMK

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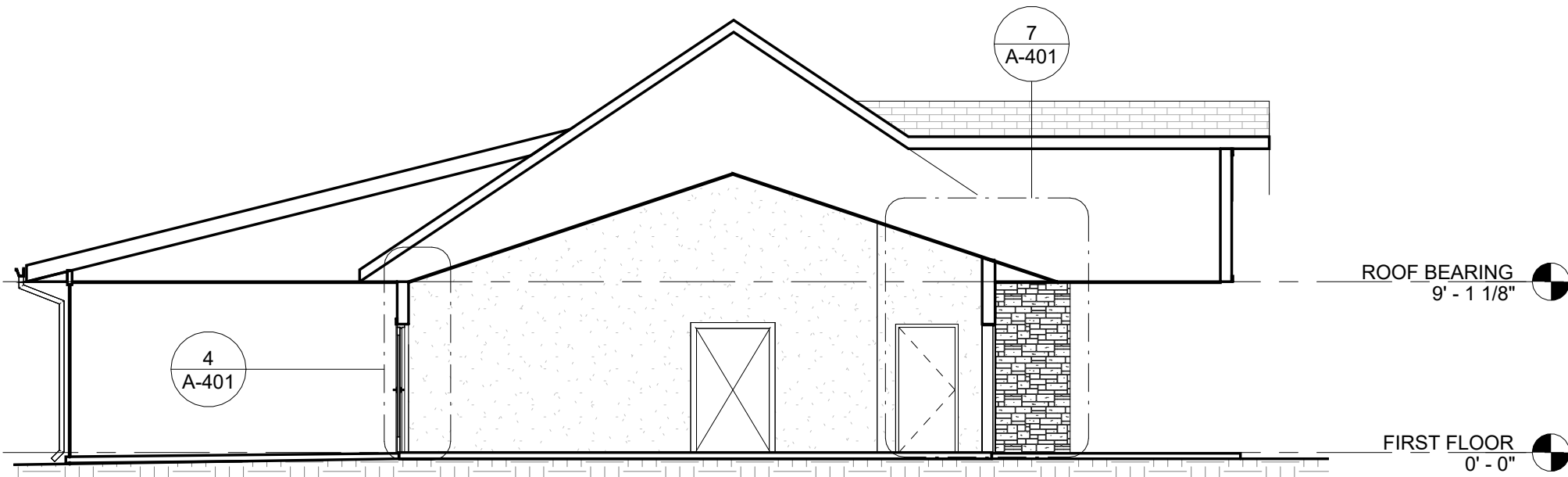
EXTERIOR
ELEVATIONS

SHEET NUMBER:

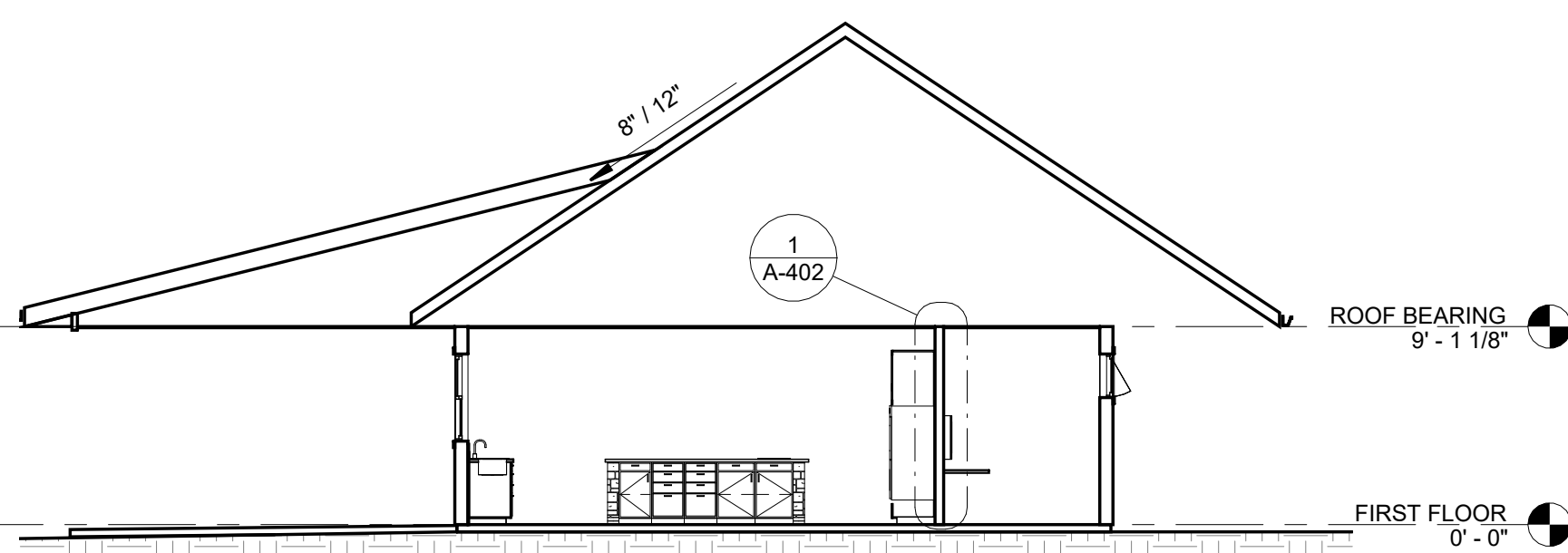
A-201



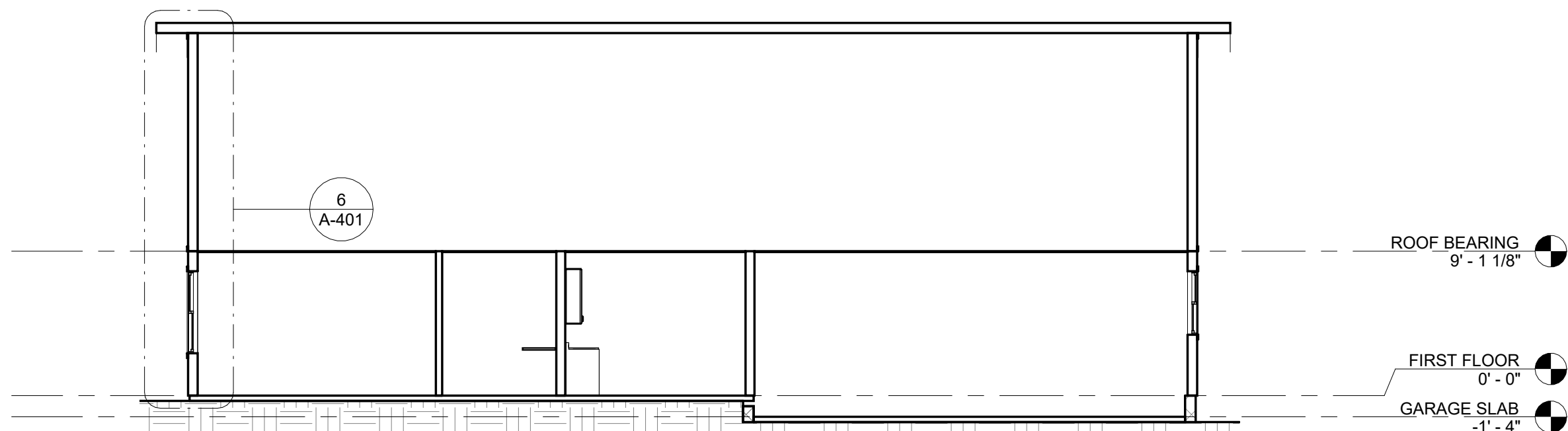
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|-------|--------------------|
| 1 | BUILDING SECTION 1 |
| A-301 | 1/8" = 1'-0" |



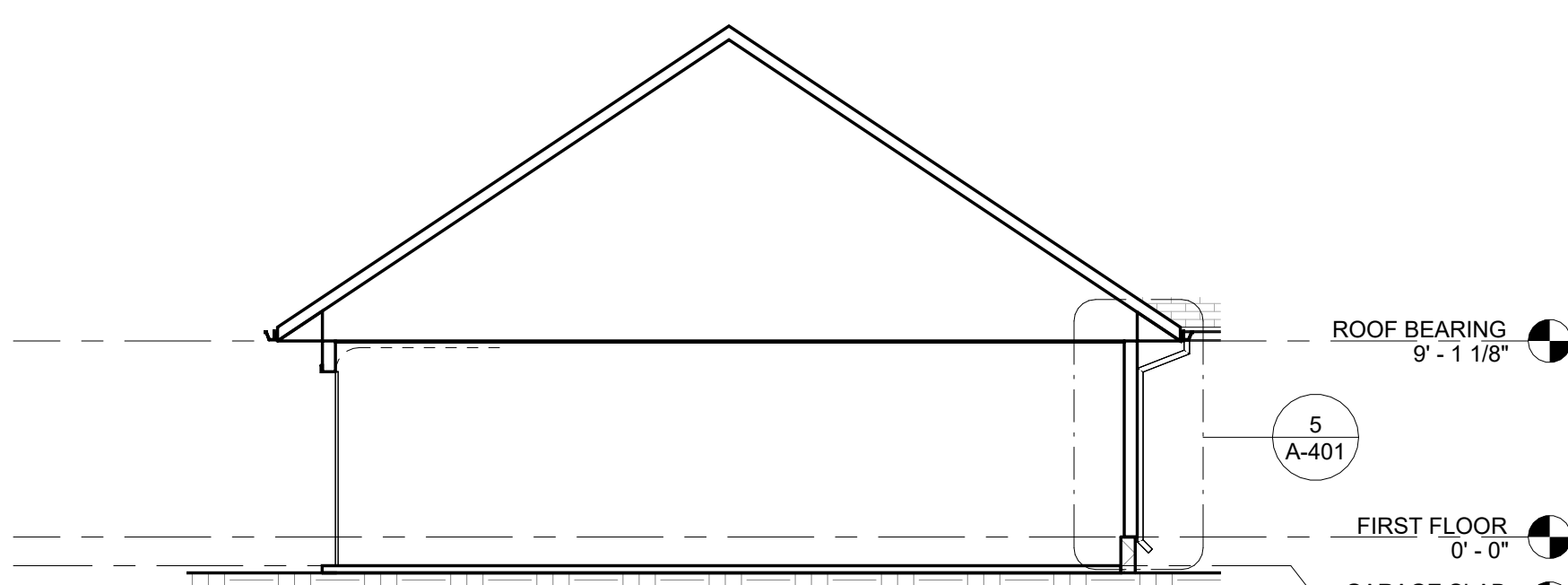
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| 2 | BUILDING SECTION 2 |
| A-301 | 1/8" = 1'-0" |



| | |
|-------|--------------------|
| 3 | BUILDING SECTION 3 |
| A-301 | 1/8" = 1'-0" |

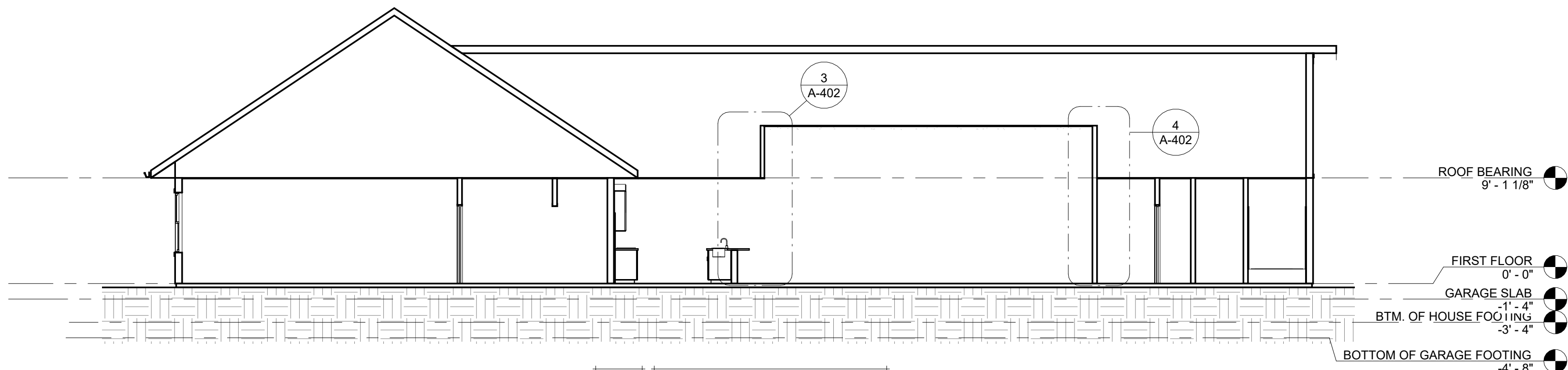


| | |
|-------|--------------------|
| 4 | BUILDING SECTION 4 |
| A-301 | 1/8" = 1'-0" |



| | |
|-------|--------------------|
| 5 | BUILDING SECTION 5 |
| A-301 | 1/8" = 1'-0" |

NOTE:
BUILDING SECTIONS
ARE SCHEMATIC.
SEE WALL SECTIONS
FOR DETAILS, TYP.



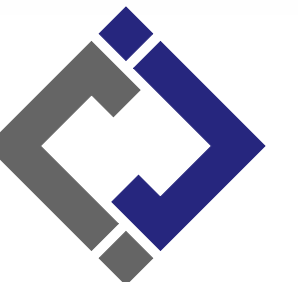
| | |
|-------|--------------------|
| 6 | BUILDING SECTION 6 |
| A-301 | 1/8" = 1'-0" |



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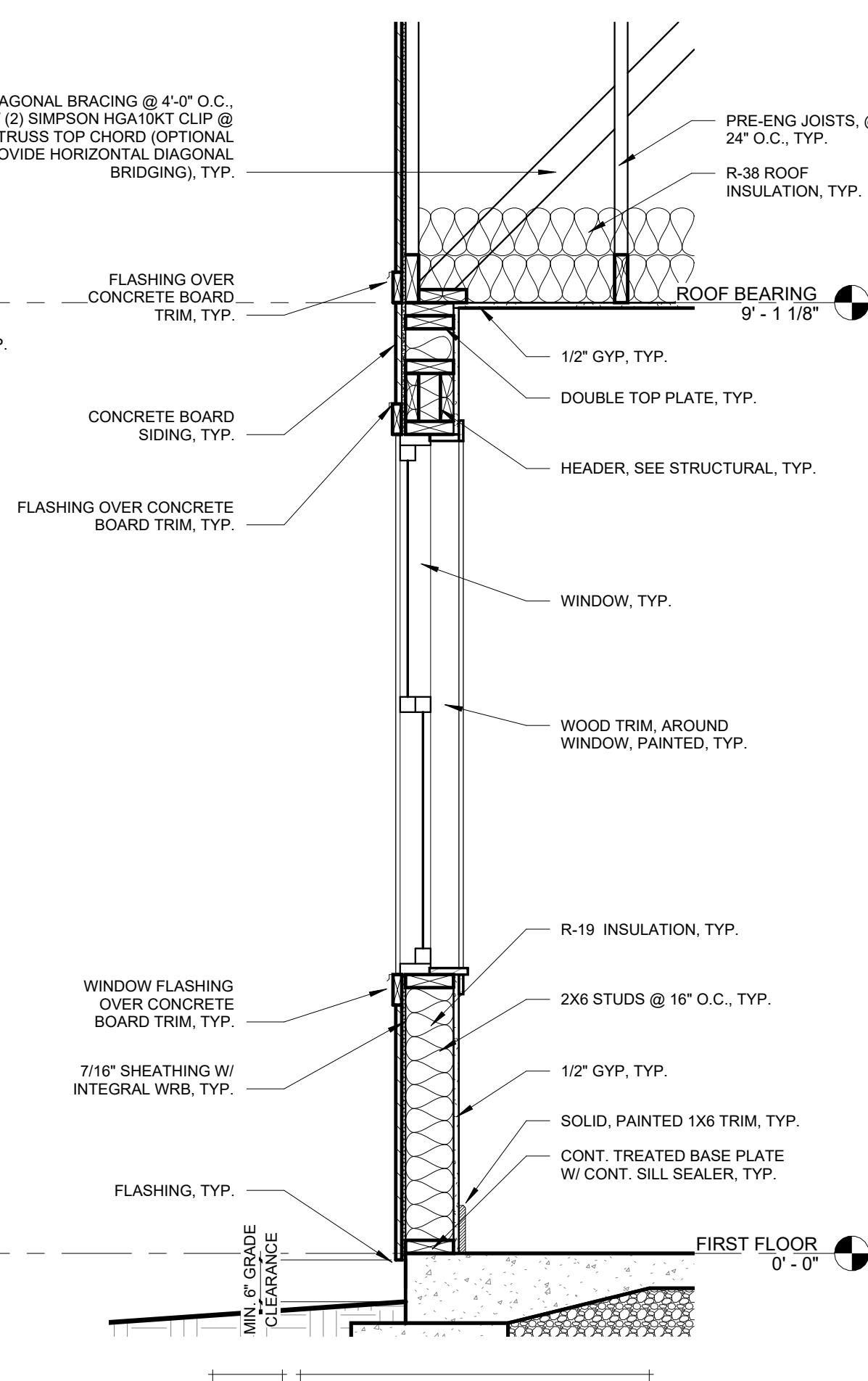
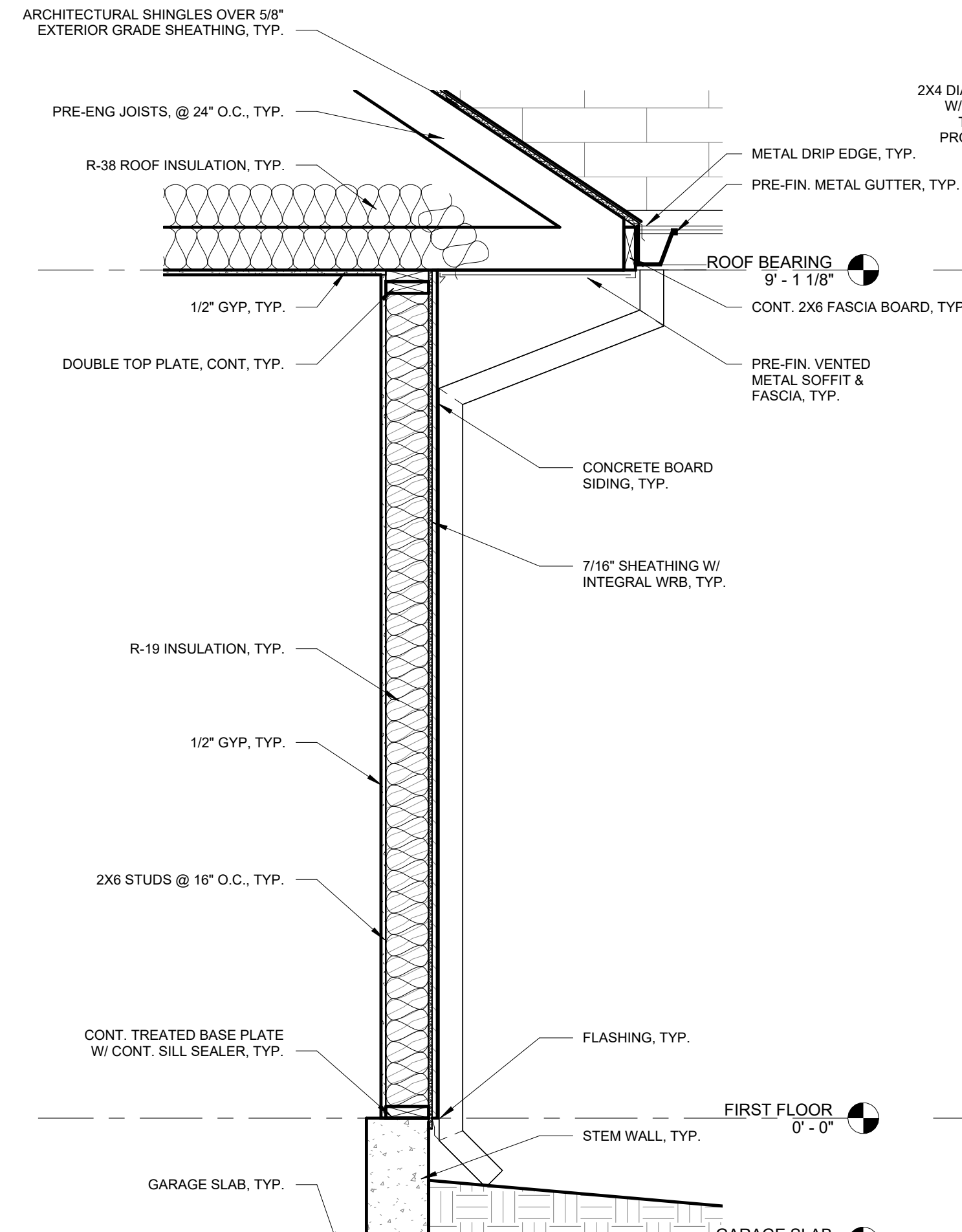
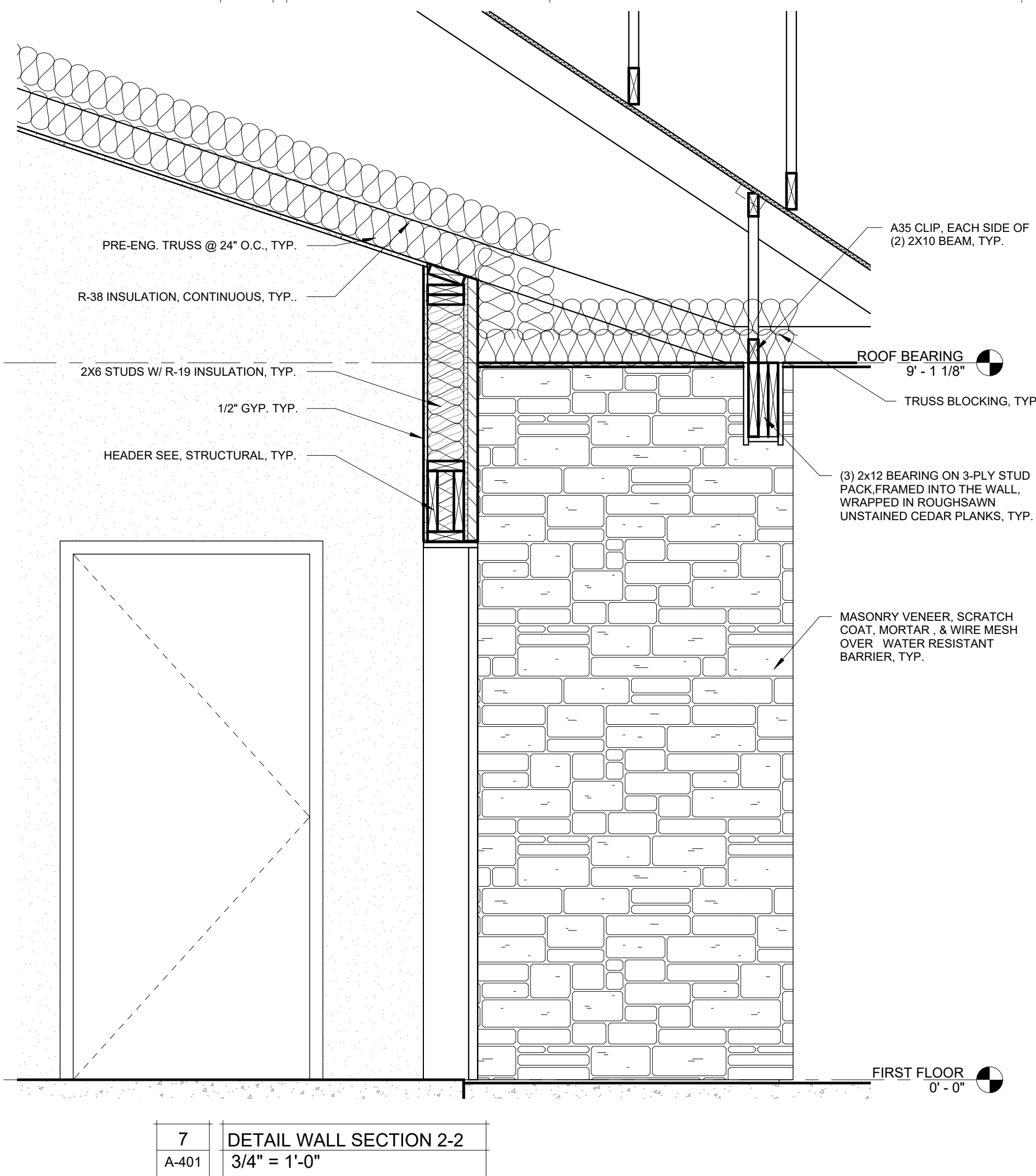
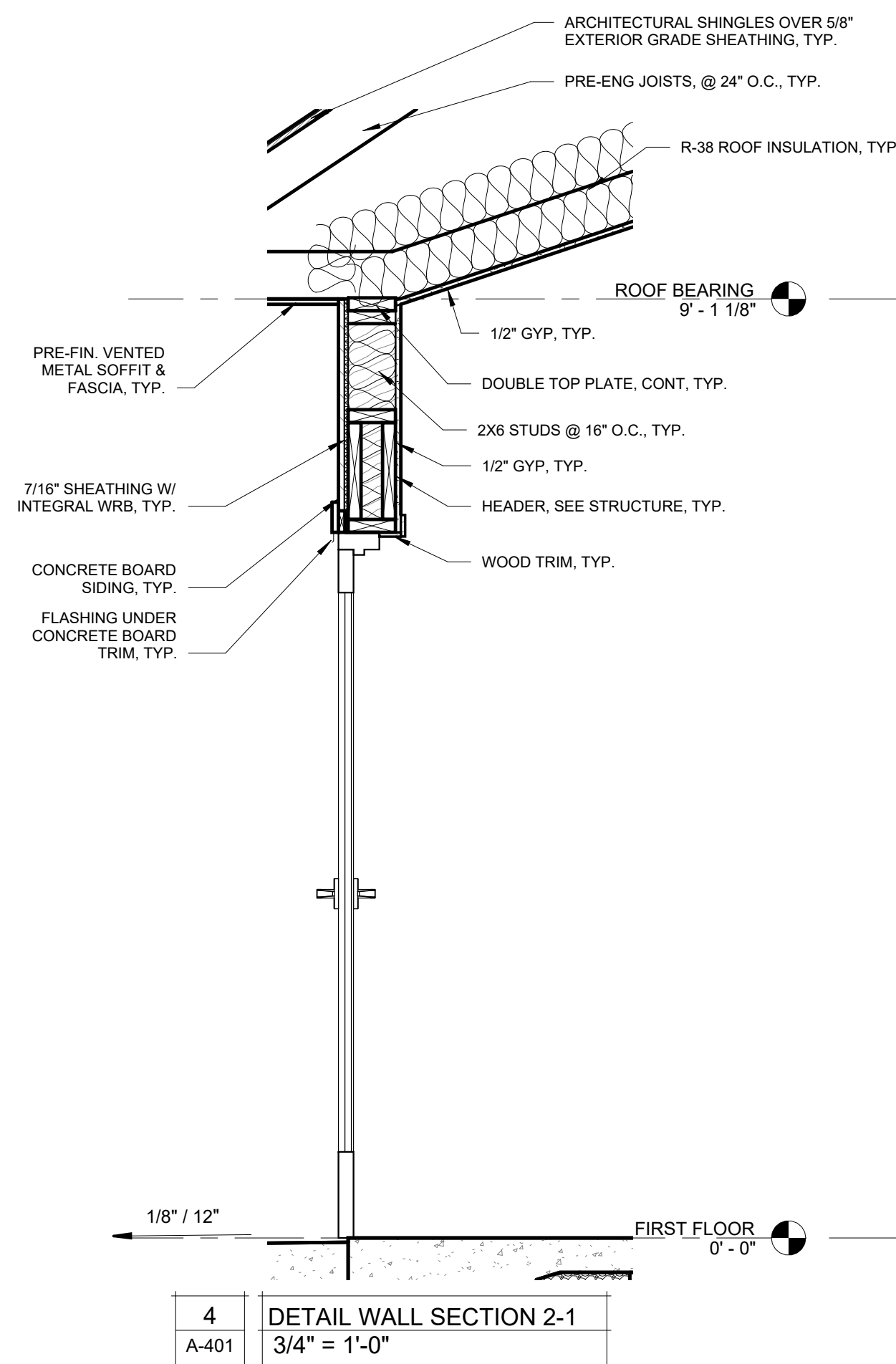
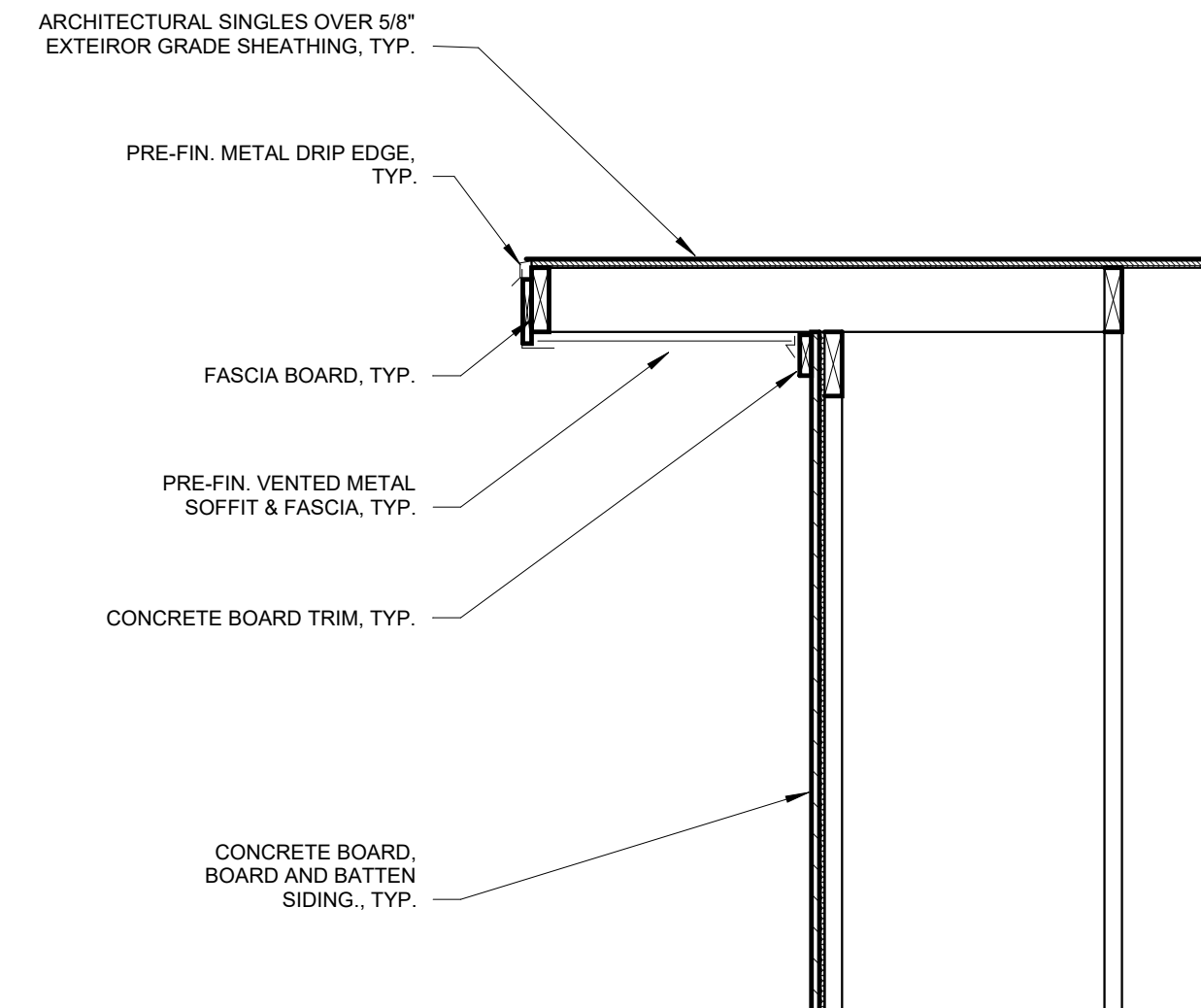
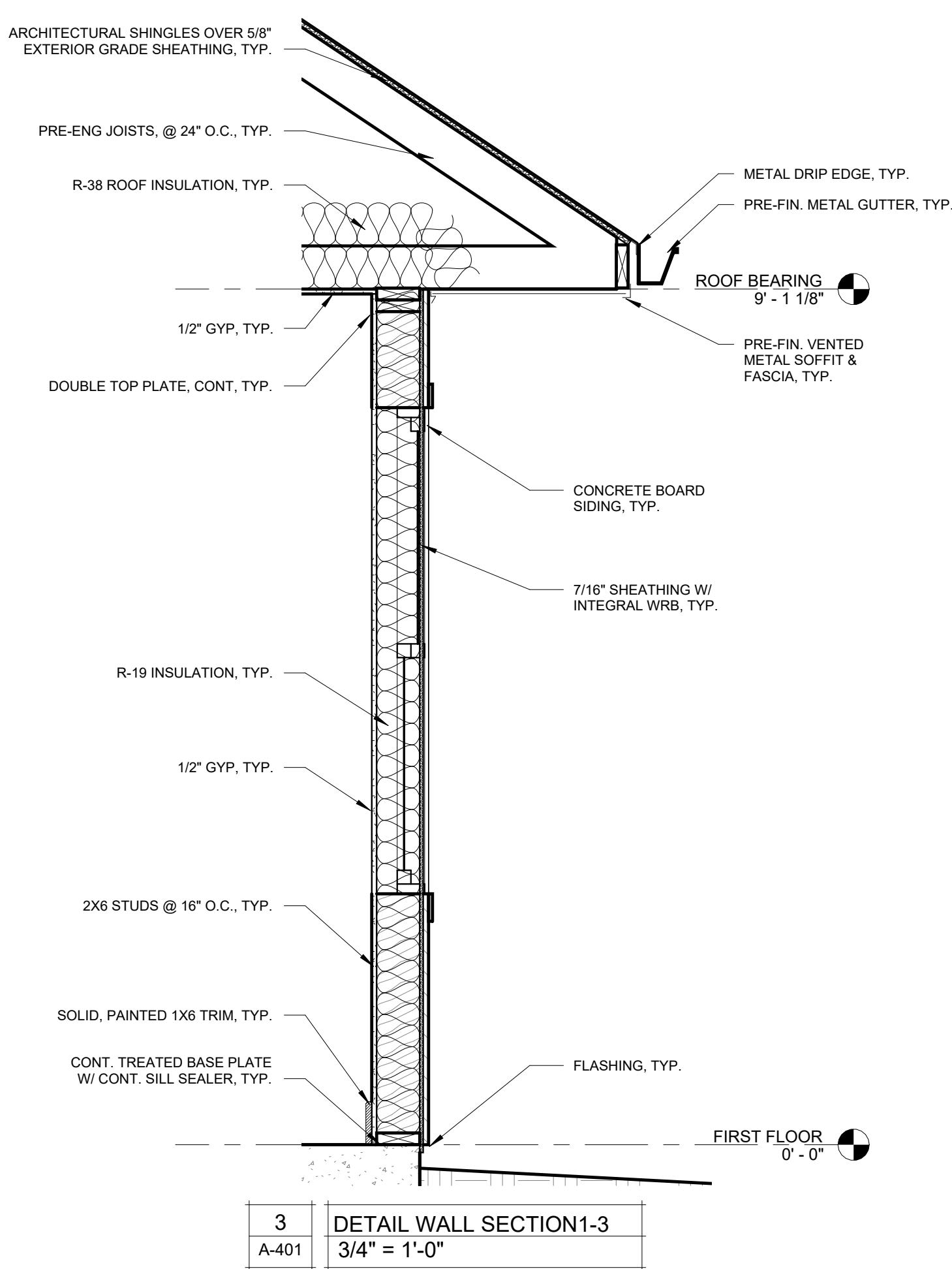
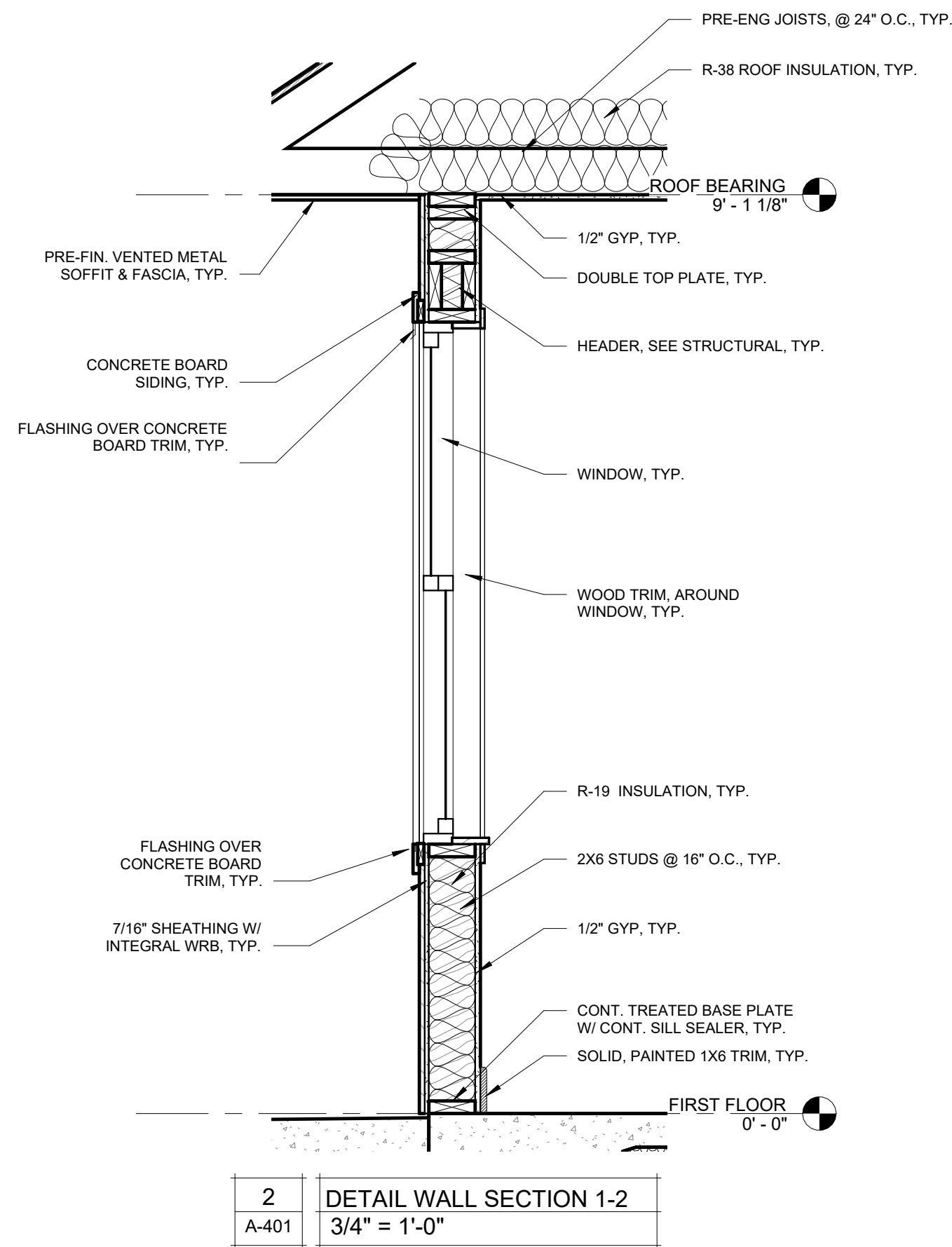
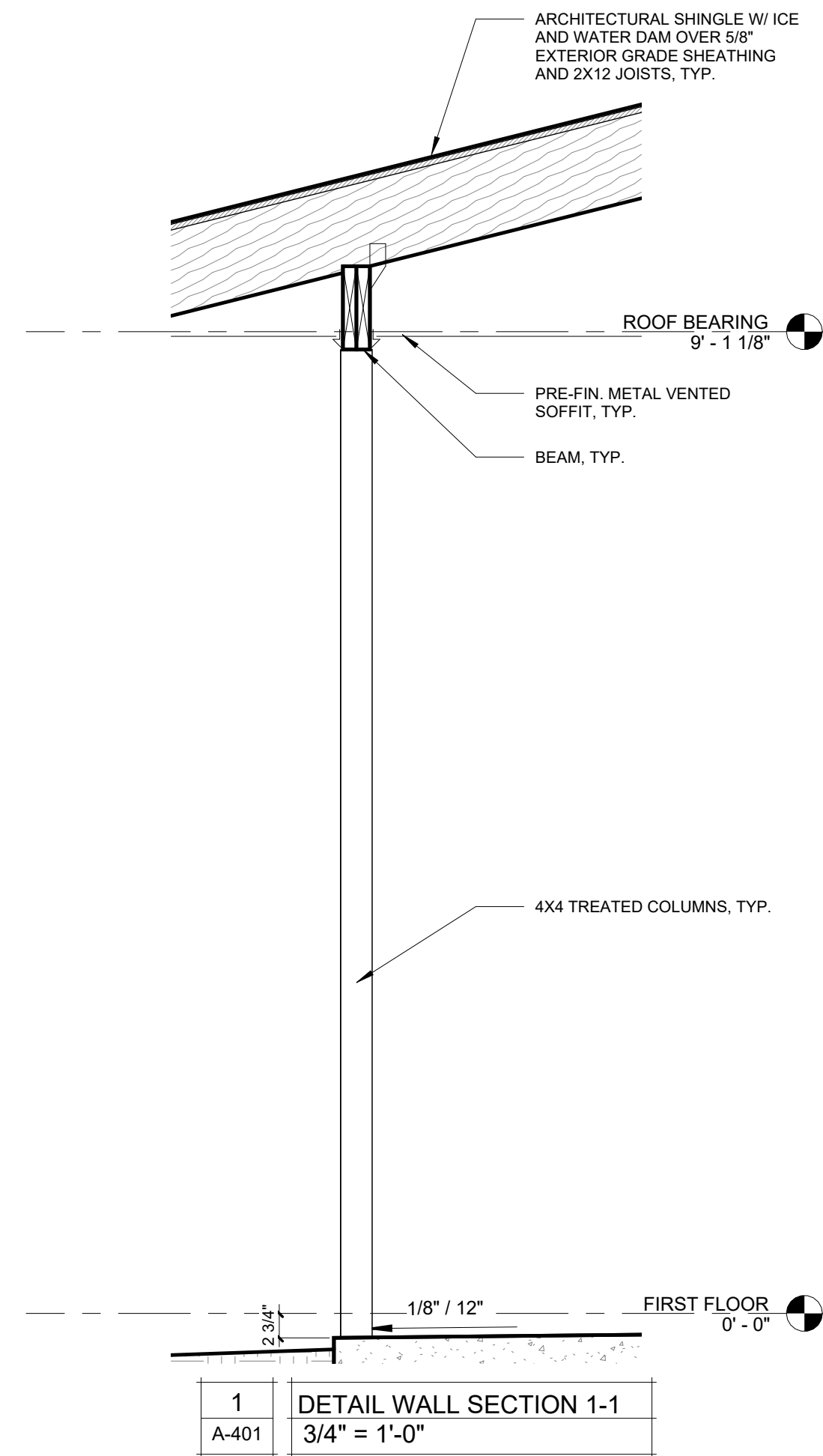
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DRAWN BY: AMK
CHECKED BY: RDR
DESIGNED BY: AMK

SHEET TITLE:

BUILDING SECTIONS

SHEET NUMBER:

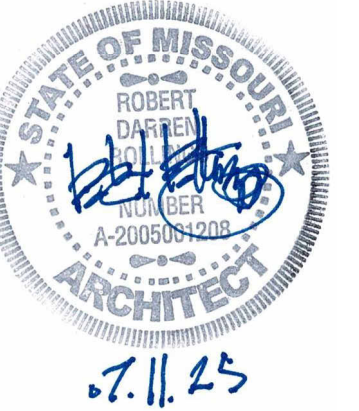
A-301



5
A-401
DETAIL WALL SECTION 5-1
3/4" = 1'-0"

6
A-401
DETAIL WALL SECTION 4-1
3/4" = 1'-0"

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



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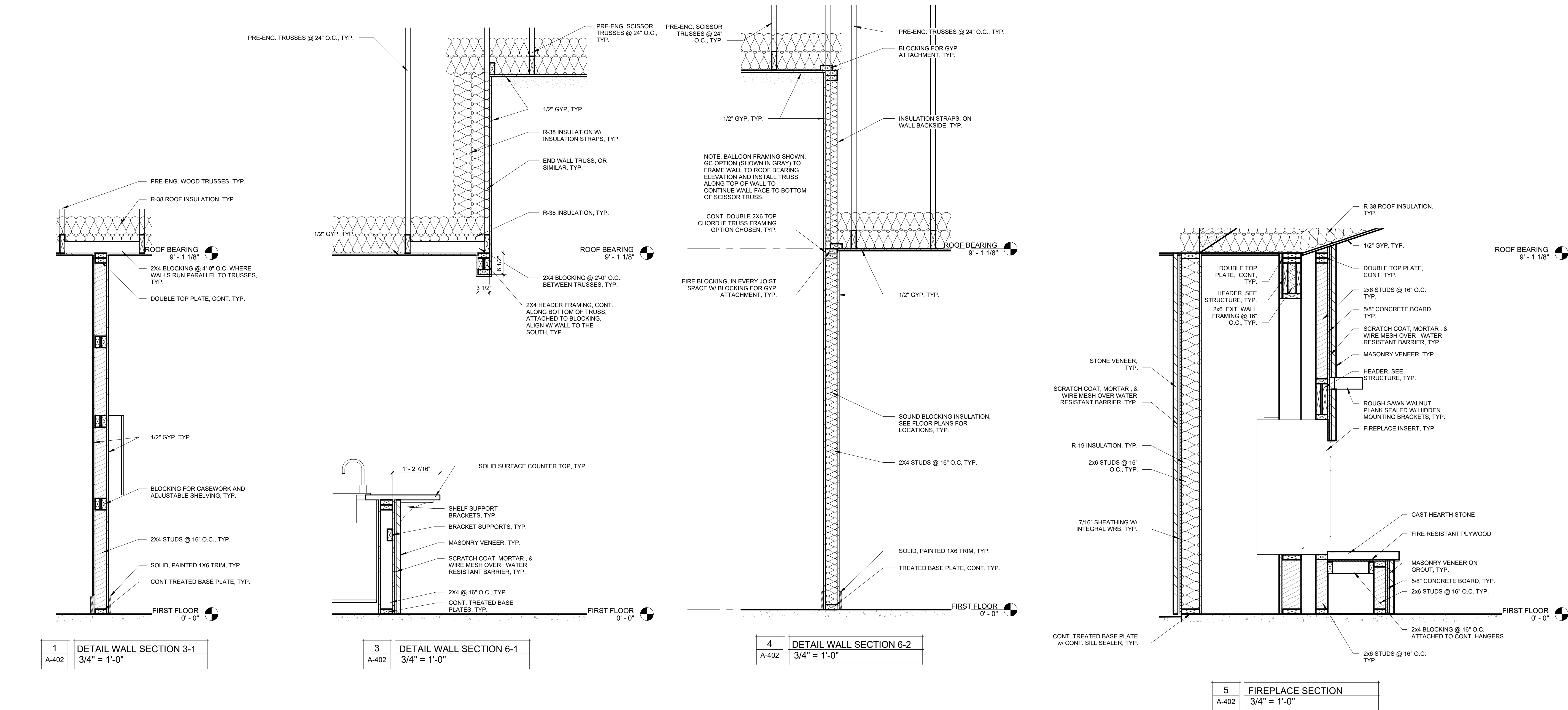
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DRAWN BY: AMK
CHECKED BY: RDR
DESIGNED BY: AMK

SHEET TITLE:

WALL SECTIONS

SHEET NUMBER:

A-401



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CAD DWG FILE: A-SC-22

DRAWN BY: AMK

CHECKED BY: RDR

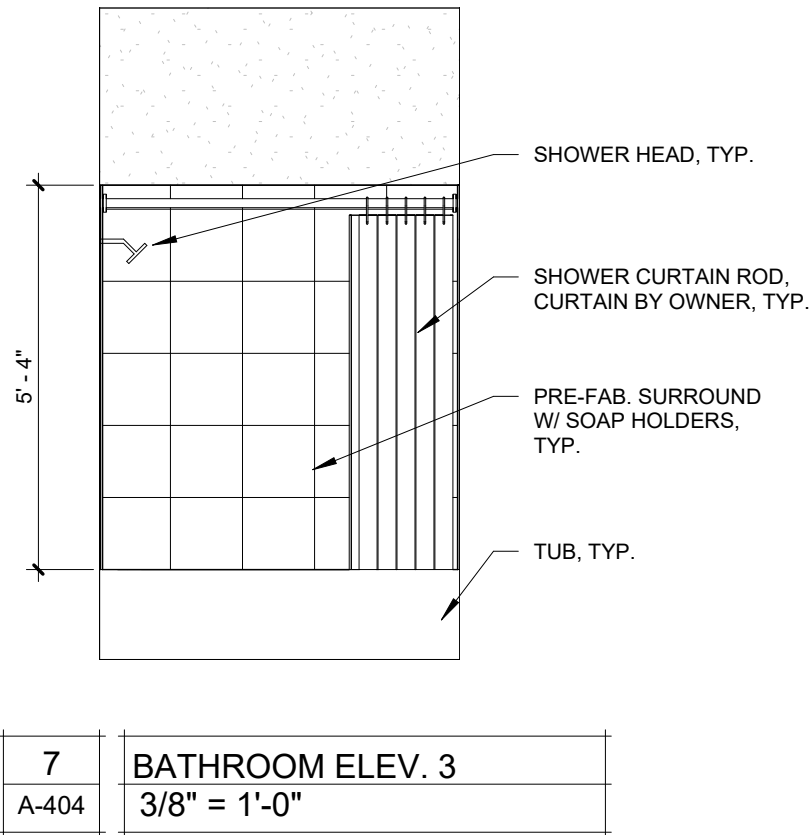
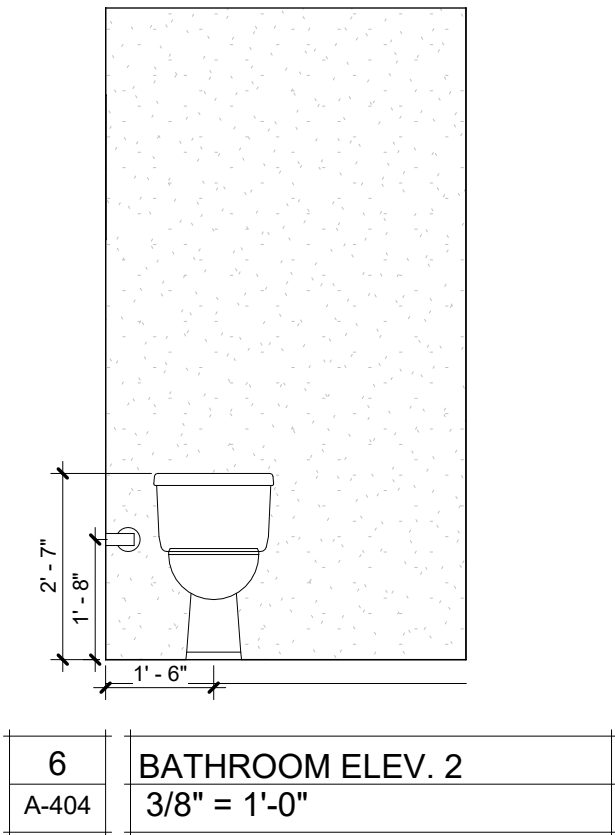
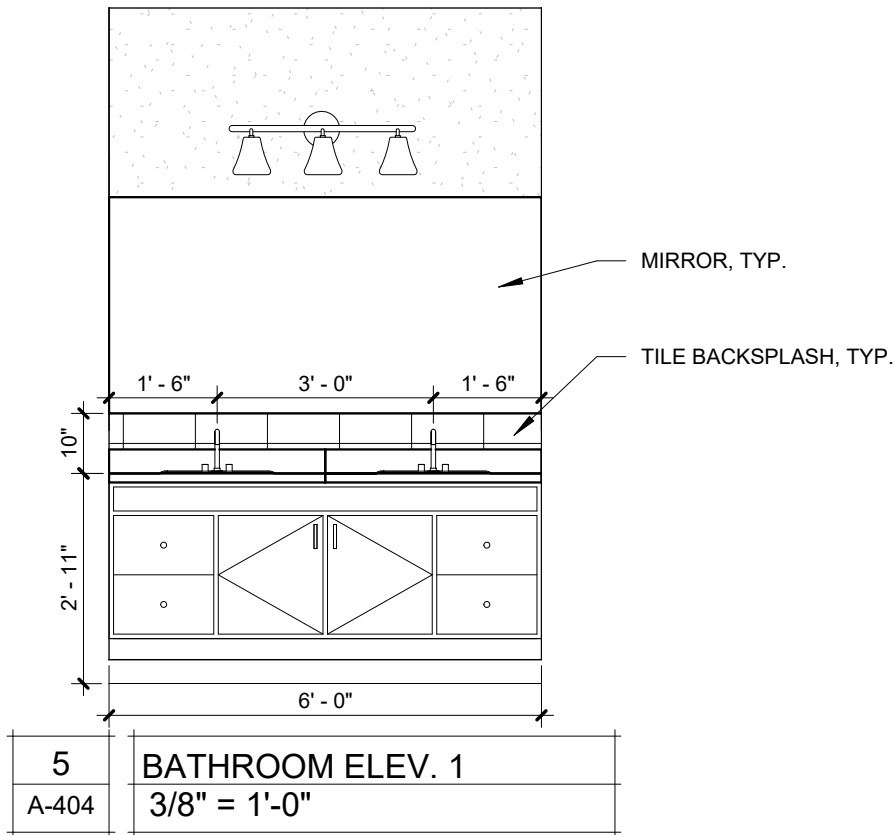
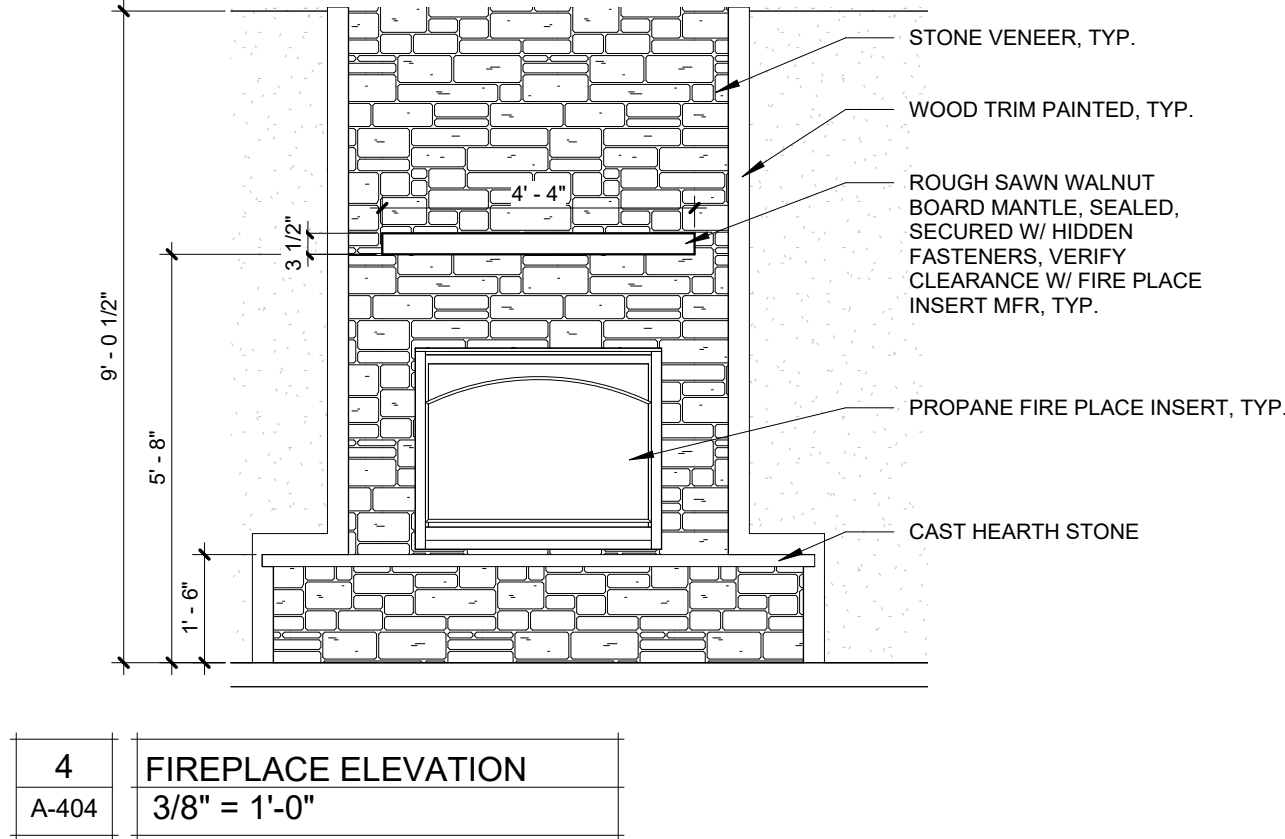
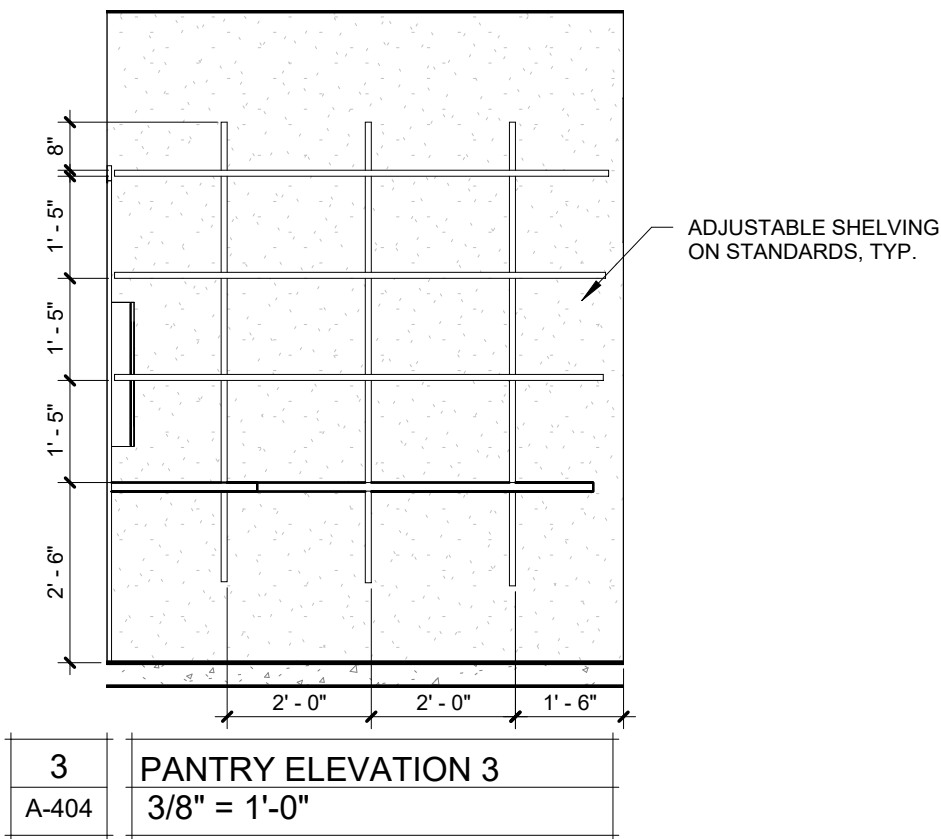
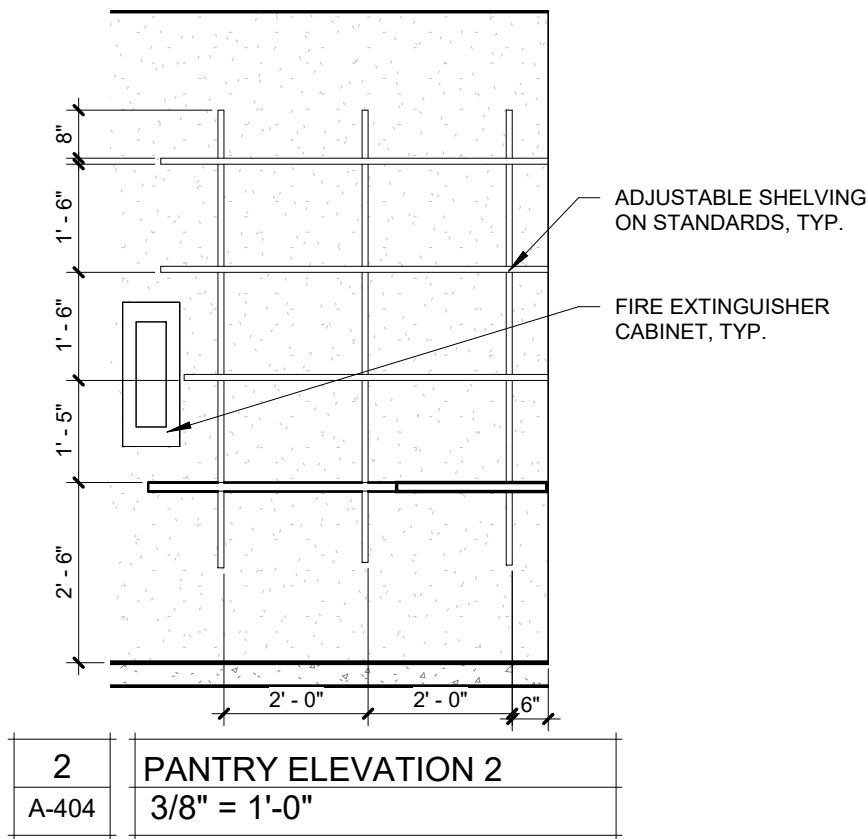
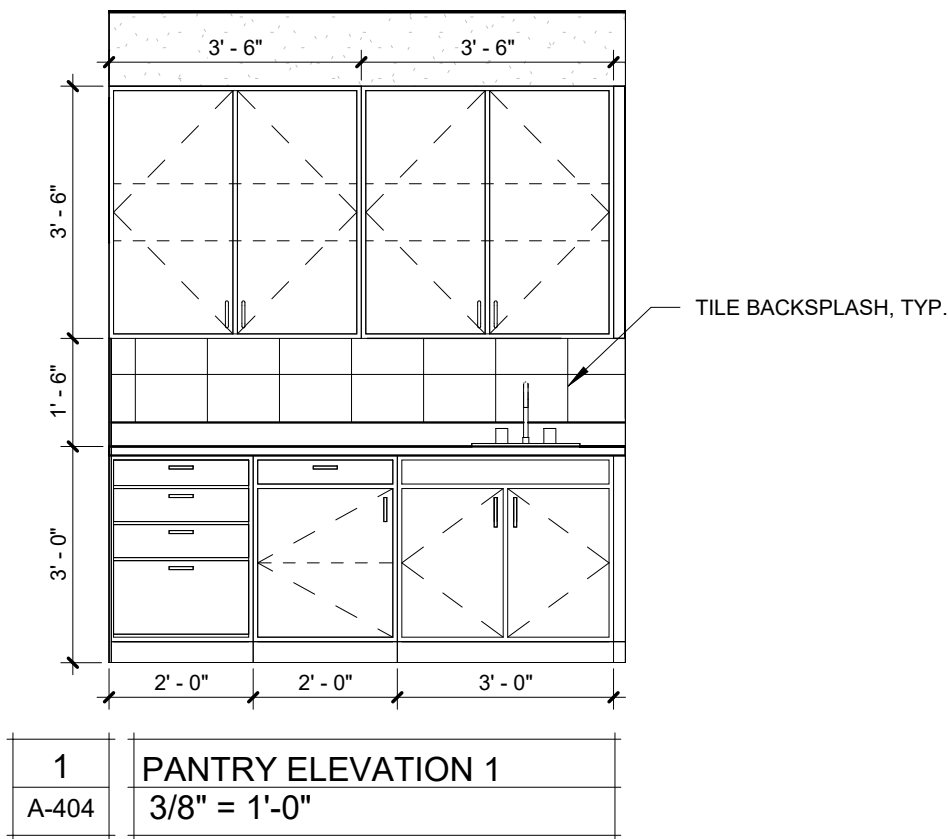
DESIGNED BY: AMK

SHEET TITLE:

WALL SECTIONS

SHEET NUMBER:

A-402



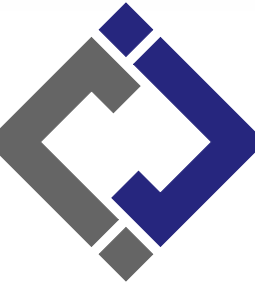
- NOTES:
1. ALL CABINETS TO BE WOOD, TYP.
 2. ALL WALL MOUNTED CABINETS TO HAVE (2) ADJUSTABLE SHELVES, TYP.
 3. ALL FLOOR MOUNTED DOOR CABINETS TO HAVE (1) HALF DEPTH ADJUSTABLE SHELF, TYP.
 4. ALL KITCHEN COUNTERTOPS TO BE SOLID SURFACE, TYP.
 5. ALL VANITY COUNTER TOPS TO BE CULTURED MARBLE / STONE, OR SIMILAR, TYP.
 6. ALL APPLIANCES BY OWNER (NIC), GC VERIFY MEASUREMENTS PRIOR TO FABRICATING CASEWORK, TYP.
 7. PROVIDE BLOCKING FOR ALL BATHROOM ACCESSORIES, INCLUDING TOWEL BARS, TOILET PAPER DISPENSERS, ETC.



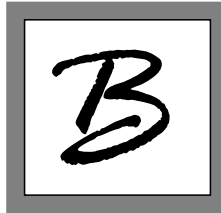
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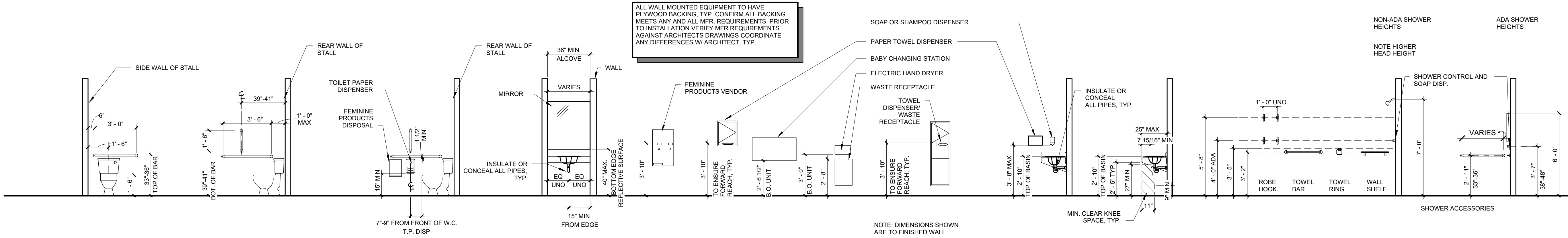
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DRAWN BY: AMK
CHECKED BY: RDR
DESIGNED BY: AMK

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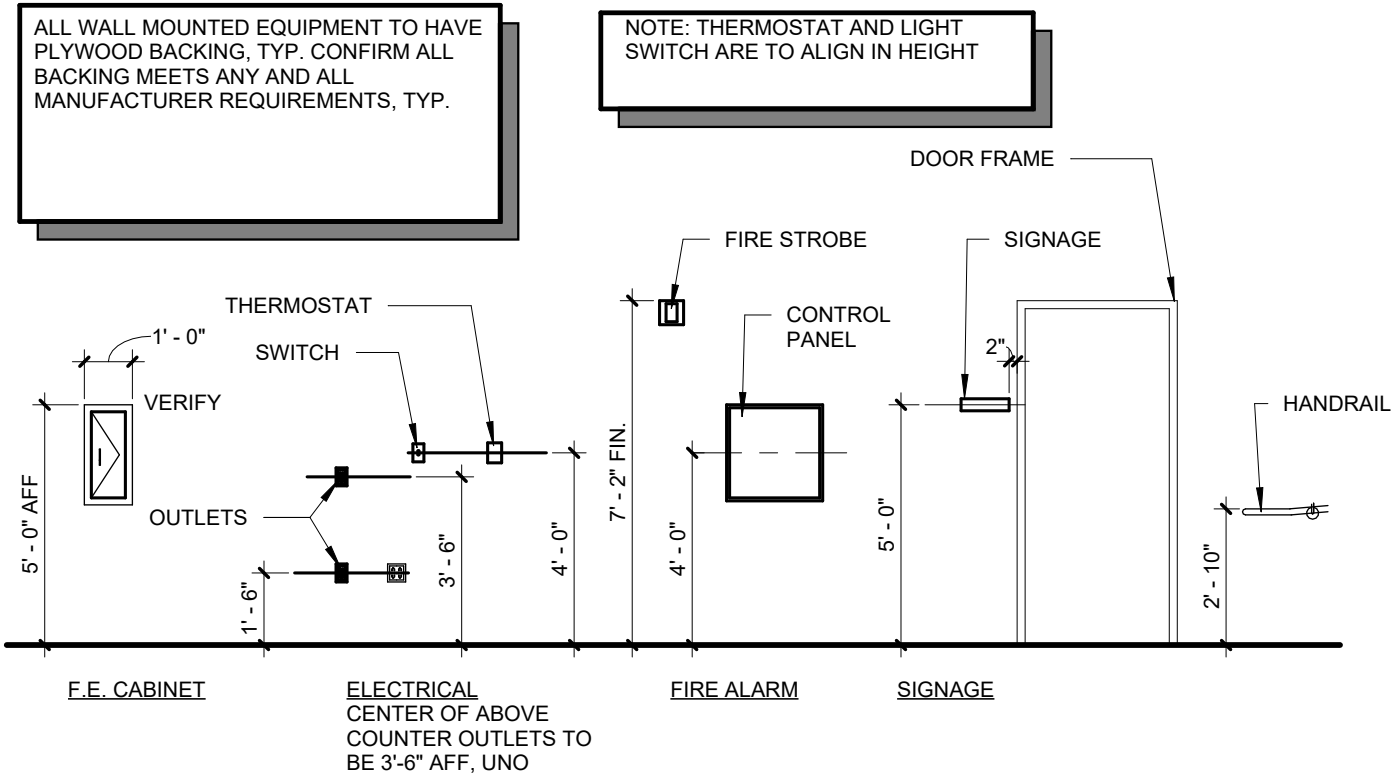
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ELEVATIONS

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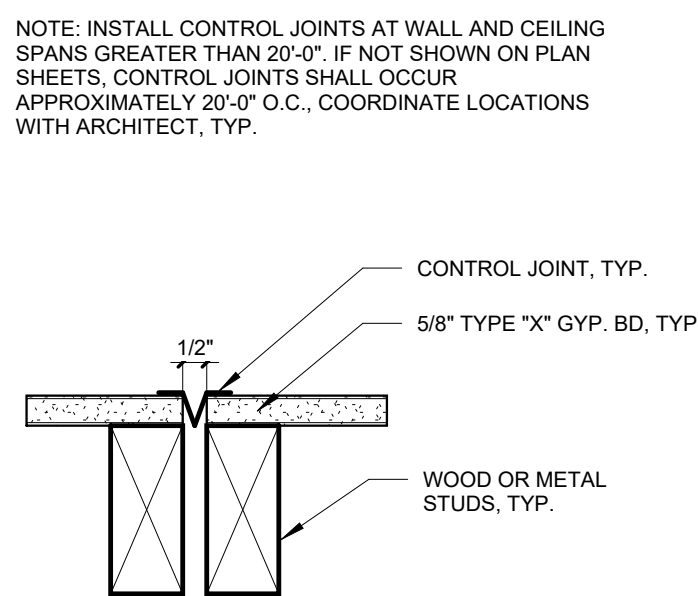
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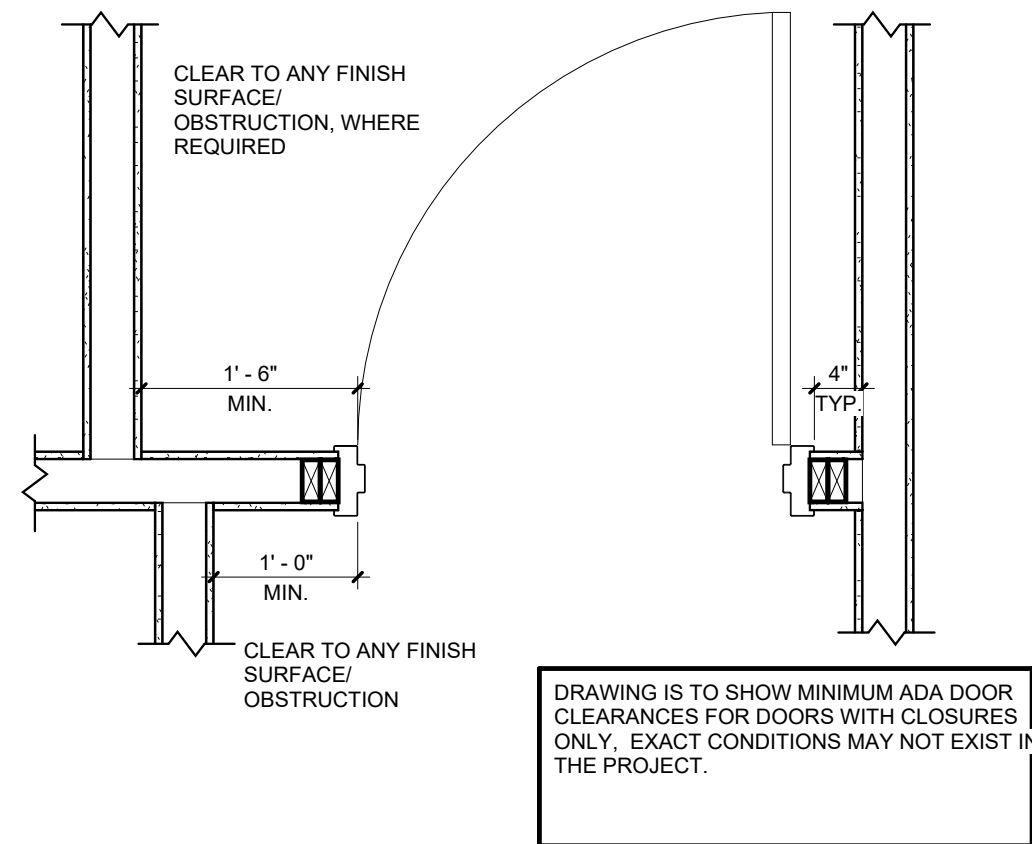
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|-------|--------------------------------|
| 2 | TYP. BATHROOM MOUNTING HEIGHTS |
| A-501 | 1/4" = 1'-0" |



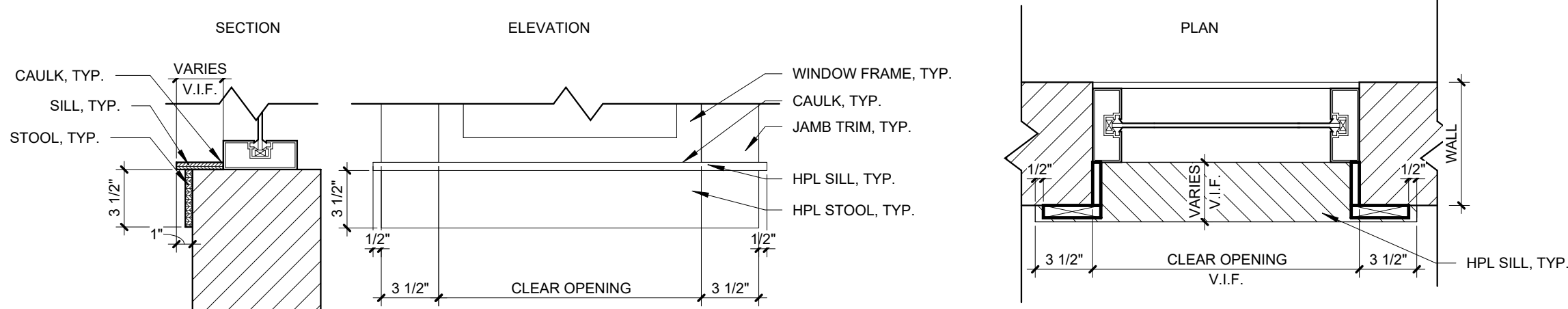
| | |
|-------|--------------------------|
| 1 | TYPICAL MOUNTING HEIGHTS |
| A-501 | 1/4" = 1'-0" |



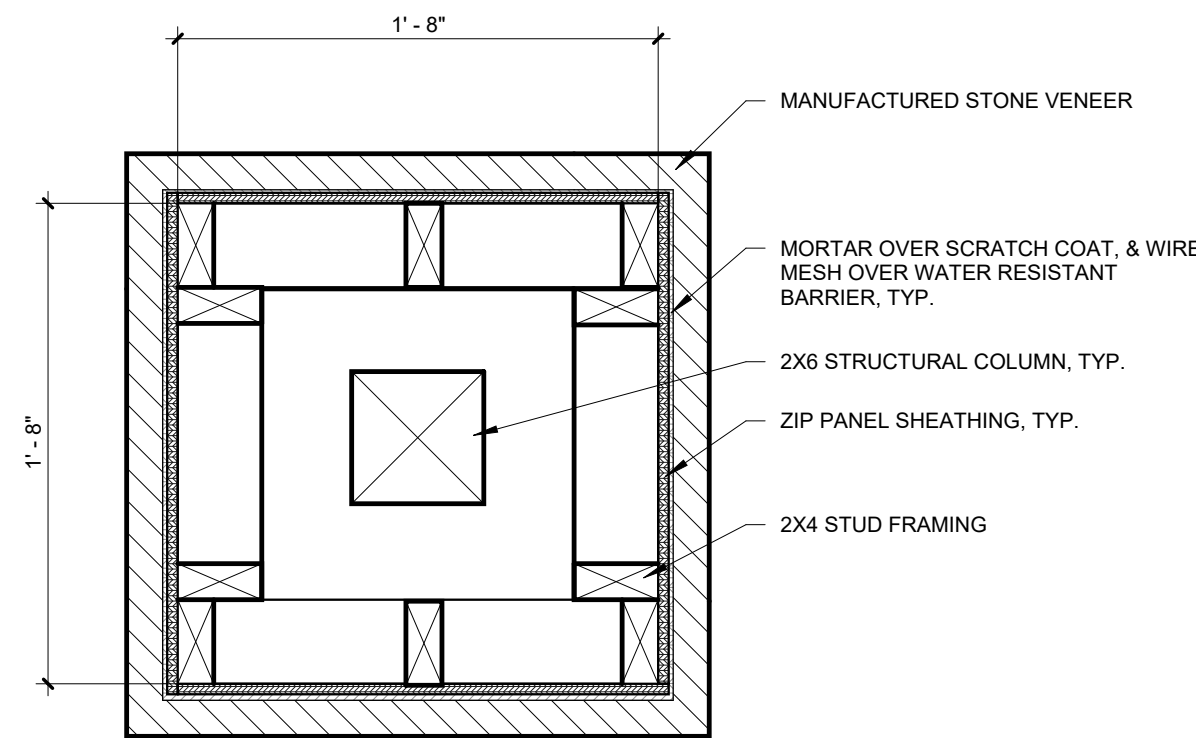
| | |
|-------|----------------------|
| 3 | CONTROL JOINT DETAIL |
| A-501 | 3" = 1'-0" |



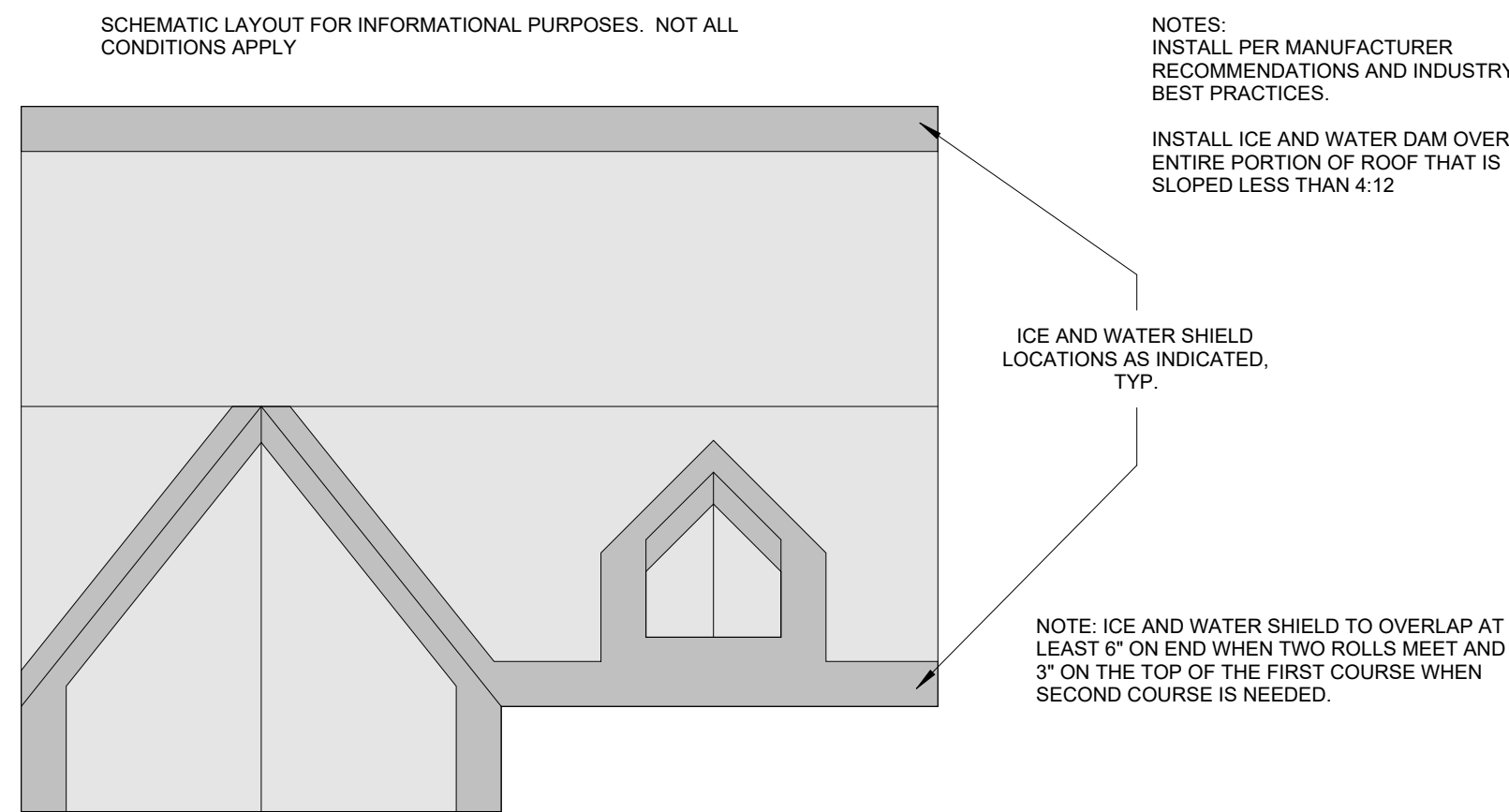
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| 4 | ADA DOOR CLEARANCES |
| A-501 | 3/4" = 1'-0" |



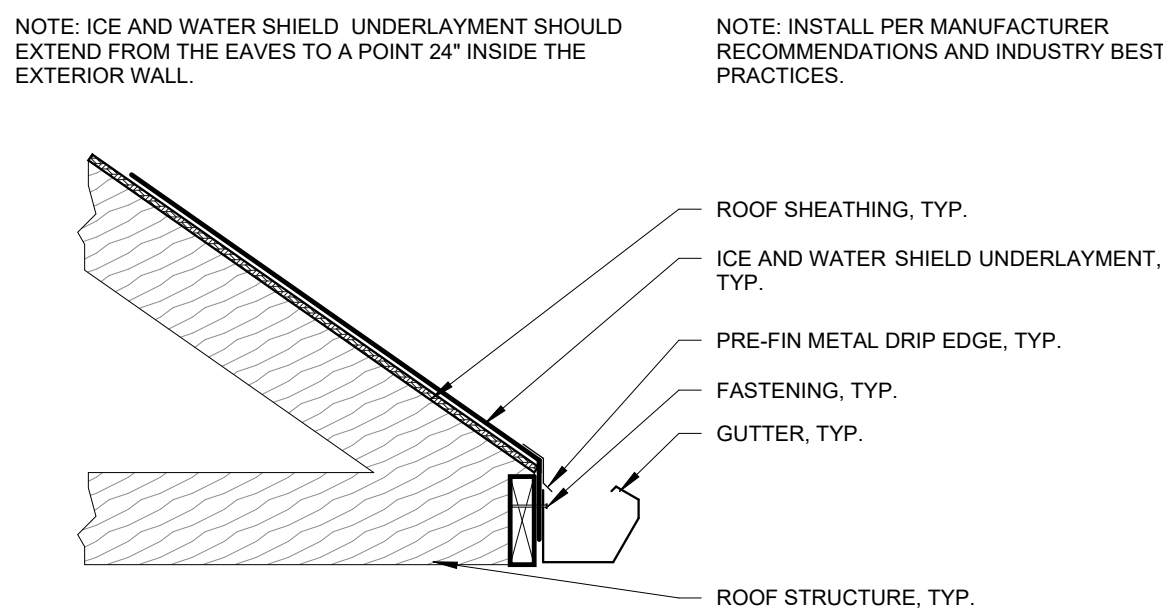
| | |
|-------|----------------------------|
| 5 | WINDOW SILL & STOOL DETAIL |
| A-501 | 1 1/2" = 1'-0" |



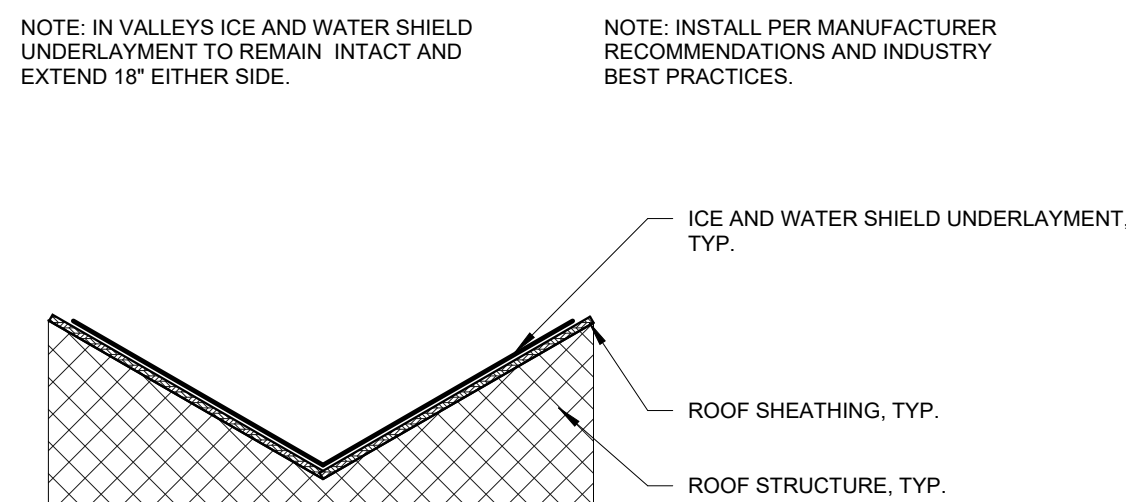
| | |
|-------|---------------------|
| 6 | FRONT COLUMN DETAIL |
| A-501 | 1 1/2" = 1'-0" |



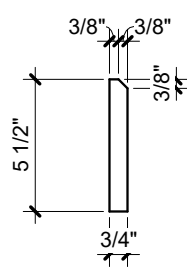
| | |
|-------|------------------------------|
| 7 | TYPICAL ICE AND WATER SHIELD |
| A-501 | 1" = 1'-0" |



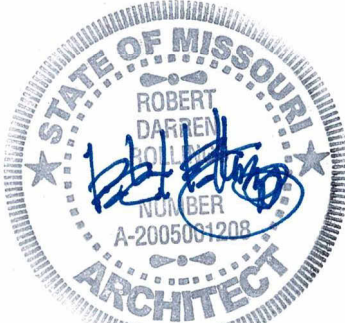
| | |
|-------|-----------------------------------|
| 8 | TYPICAL ICE AND WATER SHIELD EAVE |
| A-501 | 1" = 1'-0" |



| | |
|-------|-------------------------------------|
| 9 | TYPICAL ICE AND WATER SHIELD VALLEY |
| A-501 | 1" = 1'-0" |



| | |
|-------|----------------|
| 10 | BASE TRIM |
| A-501 | 1 1/2" = 1'-0" |



07.11.25

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CAD DWG FILE: A-DT-25
DRAWN BY: AMK
CHECKED BY: RDR
DESIGNED BY: AMK

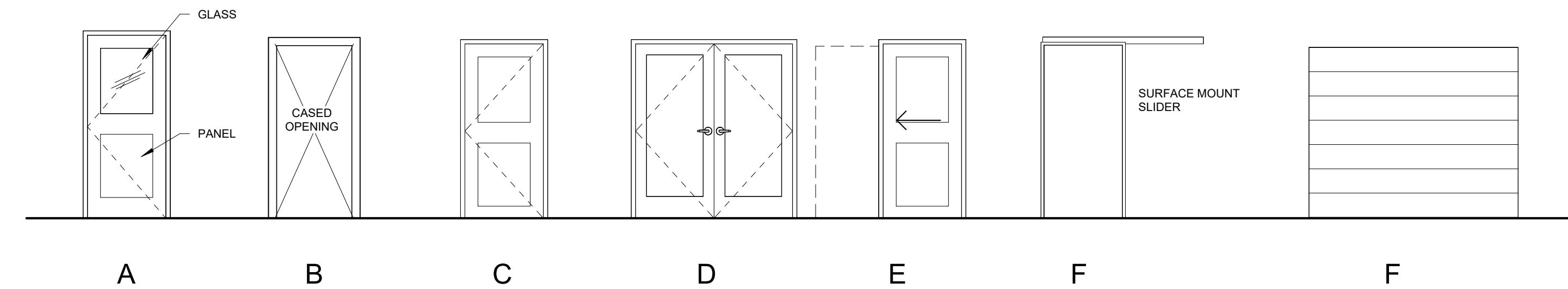
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TYPICAL DETAILS

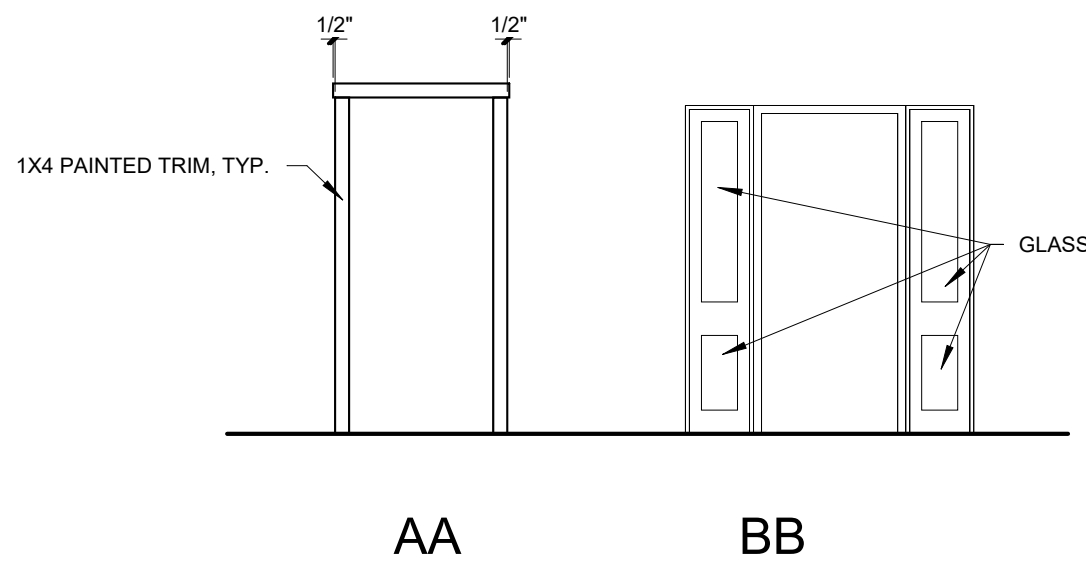
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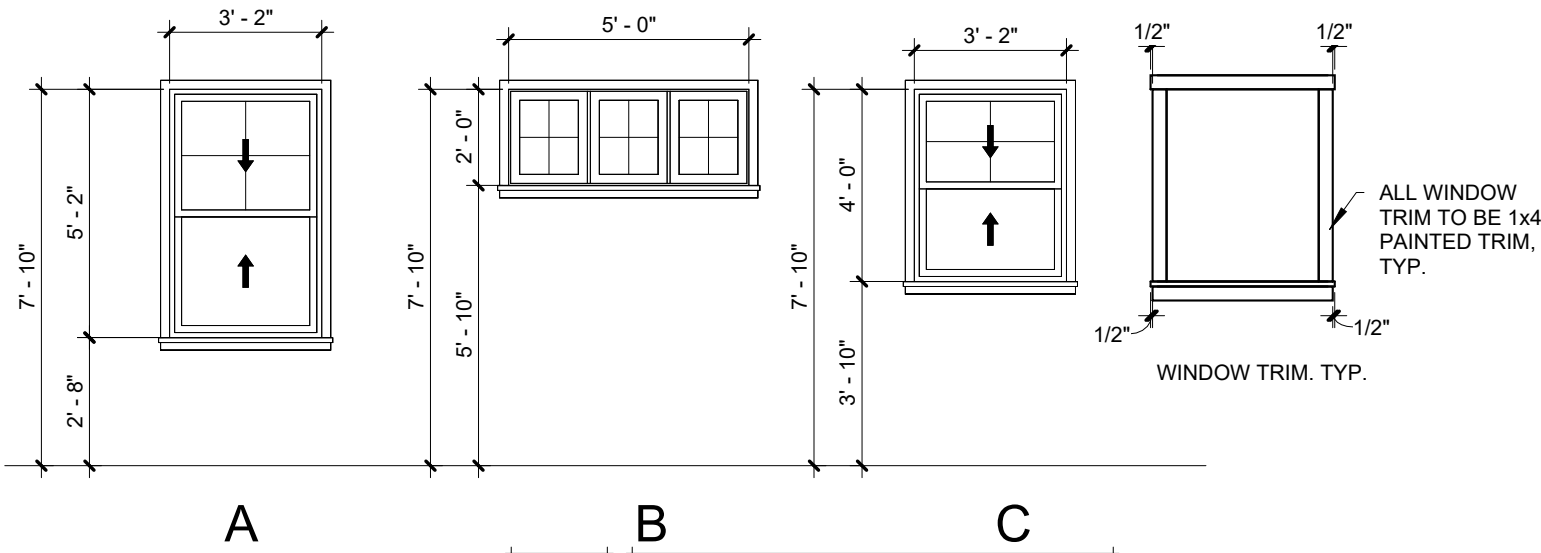
| DOOR SCHEDULE | | | | | | | | | | |
|---------------|------------|--------|---------------|-----------|-------------|----------------|------------|--------------|--------------------|--|
| MARK | WIDTH | HEIGHT | DOOR MATERIAL | DOOR TYPE | DOOR FINISH | FRAME MATERIAL | FRAME TYPE | FRAME FINISH | NOTES | HARDWARE |
| 100 | 3'-0" | 6'-8" | ALU CLAD WOOD | A | PAINT | HM / WOOD | BB | PAINT | | RESIDENTIAL ENTRY W/ DEADBOLT |
| 101 | 3'-0" | 6'-8" | SCW | E | PAINT | WOOD | AA | PAINT | POCKET | POCKET DOOR |
| 102 | 4'-0" | 6'-8" | NA | B | NA | WOOD | AA | PAINT | CASED OPENING | NA |
| 103 | 3'-0" | 6'-8" | ALU CLAD WOOD | C | PAINT | HM / WOOD | AA | PAINT | | RESIDENTIAL ENTRY |
| 104 | 9'-0" | 9'-0" | HMI | F | MFR PAINT | HM / WOOD | AA | PAINT | OVERHEAD SECTIONAL | OVERHEAD |
| 105 | 9'-0" | 9'-0" | HMI | F | MFR PAINT | HM / WOOD | AA | PAINT | OVERHEAD SECTIONAL | OVERHEAD |
| 106 | 3'-0" | 6'-8" | ALU CLAD WOOD | C | PAINT | HM / WOOD | AA | PAINT | | RESIDENTIAL ENTRY W/ DEADBOLT |
| 107 | 4'-0" | 6'-8" | NA | B | NA | WOOD | AA | PAINT | CASED OPENING | NA |
| 108 | 3'-0" | 6'-8" | SCW | C | PAINT | WOOD | AA | PAINT | | PASSAGE |
| 109 | 2'-10" | 6'-8" | SCW | C | PAINT | WOOD | AA | PAINT | | PRIVACY |
| 110 | 3'-0" | 6'-8" | SCW | C | PAINT | WOOD | AA | PAINT | | PASSAGE |
| 111 | 3'-0" | 6'-8" | SCW | C | PAINT | WOOD | AA | PAINT | | PRIVACY |
| 112 | 3'-0" | 6'-8" | SCJ | F | PAINT | WOOD / METAL | AA | PAINT | BARN STYLE SLIDER | BARN STYLE SLIDING |
| 113 | 3'-0" | 6'-8" | SCW | C | PAINT | WOOD | AA | PAINT | | PRIVACY |
| 114 | 3'-0" | 6'-8" | NA | B | NA | WOOD | AA | PAINT | CASED OPENING | NA |
| 115 | 6'-0" | 6'-8" | ALU CLAD WOOD | D | PAINT | HM | AA | PAINT | | RESIDENTIAL ENTRY W/ DEADBOLT 1 PANEL W/ PUSH BOLT, TOP AND BOTTOM |
| 116 | 6'-0" | 6'-8" | ALU CLAD WOOD | D | PAINT | HM | AA | PAINT | | RESIDENTIAL ENTRY W/ DEADBOLT 1 PANEL W/ PUSH BOLT, TOP AND BOTTOM |
| 117 | 6'-0" | 6'-8" | ALU CLAD WOOD | D | PAINT | HM | AA | PAINT | | RESIDENTIAL ENTRY W/ DEADBOLT 1 PANEL W/ PUSH BOLT, TOP AND BOTTOM |
| 118 | 4'-0" | 6'-8" | NA | B | NA | WOOD | AA | PAINT | CASED OPENING | NA |
| 119 | 3'-0" | 6'-8" | SCW | C | PAINT | WOOD | AA | PAINT | | PRIVACY |
| 120 | 3'-0" | 6'-8" | SCW | C | PAINT | WOOD | AA | PAINT | | PASSAGE |
| 121 | 3'-0" | 6'-8" | SCW | C | PAINT | WOOD | AA | PAINT | | PASSAGE |
| 122 | 3'-0" | 6'-8" | SCW | C | PAINT | WOOD | AA | PAINT | | PRIVACY |
| 123 | 3'-0" | 6'-8" | SCW | C | PAINT | WOOD | AA | PAINT | | PASSAGE |
| 124 | 3'-0" | 6'-8" | SCW | C | PAINT | WOOD | AA | PAINT | | PASSAGE |
| 125 | 3'-0" | 6'-8" | SCW | C | PAINT | WOOD | AA | PAINT | | PRIVACY |
| 126 | 2'-6" | 6'-8" | SCW | C | PAINT | WOOD | AA | PAINT | | PASSAGE |
| 127 | 3'-0" | 6'-8" | SCW | C | PAINT | WOOD | AA | PAINT | | PASSAGE |
| 128 | 2'-11 1/2" | 6'-10" | GLASS | C | GLASS | METAL | AA | SS | SHOWER | PUSH PULL, VERIFY WIDTH IN FIELD |



| DOOR TYPES | |
|--------------|--|
| 1/4" = 1'-0" | |



| DOOR FRAME TYPES | |
|------------------|--|
| 1/4" = 1'-0" | |



| WINDOW TYPES | |
|--------------|--|
| 1/4" = 1'-0" | |

| FINISH SCHEDULE | | | | | | | | | | |
|-----------------|------------------|-----------|-----------------|--------------|----------------------|-------------------|----------------------|------------------------|----------------------|-----------------|
| ROOM | ROOM NAME | FLOORING | | | | WALL FINISH | | CEILING FINISH | | COMMENTS |
| | | LVT PLANK | SEALED CONCRETE | SHEET CARPET | 12"x12" CERAMIC TILE | MOSAIC FLOOR TILE | GYP/UM BOARD PAINTED | CERAMIC TILE W/ANSICOT | PREFIN. METAL SOFFIT | |
| 100 | ENTRY | | | | X | | X | | X | VAULTED CEILING |
| 101 | DINING | | | | X | | X | | X | VAULTED CEILING |
| 102 | LIVING | | | X | | | X | | X | VAULTED CEILING |
| 103 | KITCHEN | | | X | | | X | X | X | |
| 104 | PANTRY | | | X | | | X | X | X | |
| 105 | CORRIDOR 1 | X | | | | | X | | X | |
| 106 | GARAGE | | X | | | | X | | X | |
| 107 | MUD | X | | | | | X | | X | |
| 108 | LAUNDRY / OFFICE | X | | | | | X | | X | |
| 109 | W.C. | | | | X | | X | | X | |
| 110 | UTE | X | | | | | X | | X | |
| 111 | MASTER BEDROOM | | X | | | | X | | X | |
| 112 | MASTER BATH | | | | X | | X | | X | |
| 113 | TOILET | | | | X | | X | | X | |
| 114 | MASTER CLOSET | | X | | | | X | | X | |
| 115 | CORR. 2 | | X | | | | X | | X | |
| 116 | BEDROOM 1 | | X | | | | X | | X | |
| 117 | CLOSET 1 | | X | | | | X | | X | |
| 118 | BATHROOM | | | | X | | X | X | X | |
| 119 | TOILET 2 | | | | X | | X | X | X | |
| 120 | CLOSET 2 | | X | | | | X | | X | |
| 121 | BEDROOM 2 | | X | | | | X | | X | |
| 122 | HVAC | X | | | | | X | | X | |
| 123 | COAT | X | | | | | X | | X | |
| 124 | FRONT PORCH | | | | | | | X | | |
| 125 | BACK PORCH | | | | | | | X | | |

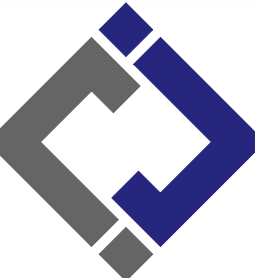
STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



Robert D. Rollings 2005001208, Certificate of Authority # A-2006003870

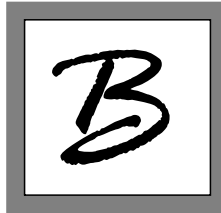


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DIRECTOR'S HOUSE

MISSOURI STATE
FAIRGROUNDS
2503 W. 16TH ST
SEDALIA, MO 65301

PROJECT # F2402-01

SITE # 1501
ASSET # 3511501149

REVISION:
DATE:

REVISION:
DATE:

REVISION:
DATE:

ISSUE DATE: 7/11/2025
BID DOCUMENTS

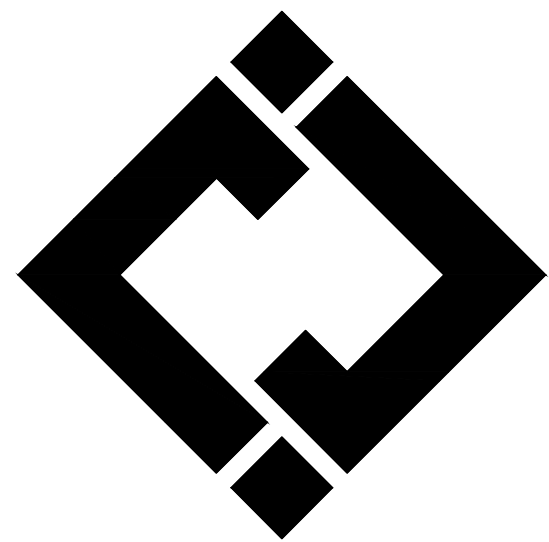
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DRAWN BY: AMK
CHECKED BY: RDR
DESIGNED BY: AMK

SHEET TITLE:

DOOR - WINDOW &
FINISH SCHEDULE

SHEET NUMBER:

A-601



J-SQUARED ENGINEERING

MECHANICAL - ELECTRICAL - PLUMBING DESIGN DRAWINGS FOR:

2402 Directors House

32nd St.
Sedalia, MO

GENERAL MEP SPECIFICATIONS

- GENERAL**
 - ALL WORK SHALL BE PERFORMED IN COMPLIANCE WITH LOCALLY ADOPTED CODES AND ORDINANCES.
 - IT IS THE RESPONSIBILITY OF CONTRACTOR TO REVIEW AND UNDERSTAND ALL DRAWINGS AND SPECIFICATIONS IN CONTRACT DOCUMENTS. EACH CONTRACTOR IS RESPONSIBLE FOR ALL WORK ASSOCIATED WITH THEIR TRADE, REGARDLESS OF WHERE WORK IS DEPICTED IN PROJECT DRAWINGS OR SPECIFICATIONS.
 - LAYOUT OF SYSTEMS SHOWN ON PLANS ARE APPROXIMATE AND SCHEMATIC IN NATURE. ALL SYSTEMS WILL NEED TO BE FIELD-COORDINATED. CONTRACTOR SHALL INCLUDE THIS COORDINATION IN THEIR SCOPE AND INCLUDE ALL COSTS OF MODIFYING LAYOUT AS REQUIRED IN THEIR BID. PLANS ARE NOT INTENDED TO BE SHOP DRAWINGS FROM WHICH MATERIALS CAN BE ORDERED, FABRICATED, OR INSTALLED WITHOUT ADDITIONAL FIELD MEASUREMENTS AND COORDINATION.
 - NOT ALL SPECIFIC PIECES AND COMPONENTS OF EACH SYSTEM ARE DETAILED OR OUTLINED ON PLANS. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY PARTS AND LABOR TO PRODUCE A COMPLETE AND FULLY OPERATIONAL SYSTEM UNLESS STATED OTHERWISE ON PLANS. CONTRACTOR IS TO PROVIDE AND INCLUDE ALL EQUIPMENT AND MATERIAL NEEDED TO COMPLETE WORK ASSOCIATED WITH THEIR BID UNLESS ANY ITEMS ARE SPECIFICALLY NOTED ON PLANS AS PROVIDED BY OTHERS. ALL MATERIALS TO BE NEW, FIRST CLASS, AND INSTALLED PER MANUFACTURER'S PUBLISHED INSTRUCTIONS.
 - WHERE CONFLICTS EXIST BETWEEN MEP PLANS AND CIVIL, ARCHITECTURAL, OR STRUCTURAL PLANS, NOTIFY MEP ENGINEER OF DISCREPANCIES FOR CLARIFICATION PRIOR TO PERFORMING ANY WORK THAT MAY CONTRADICT INFORMATION ELSEWHERE IN THE PROJECT PLANS.
 - THESE PLANS ARE NOT TO BE SCALED. SEE ARCHITECTURAL PLANS FOR DIMENSIONS. WHERE THERE IS A CONFLICT BETWEEN ARCHITECTURAL DIMENSIONS AND MEP DIMENSIONS, ARCHITECTURAL SHALL GOVERN.
 - CONTRACTOR IS TO INCLUDE IN THEIR SCOPE THE COST OF ALL PERMITS, INSPECTIONS, METERING, TAPS, ETC. ASSOCIATED WITH THEIR WORK.
 - CONTRACTOR IS RESPONSIBLE FOR ALL EXCAVATION, CUTTING, CORING, PATCHING, AND BACKFILL REQUIRED TO COMPLETE THEIR WORK, UNLESS NOTED OTHERWISE ON PLANS.
 - SPECIFIC EQUIPMENT MANUFACTURERS AND/OR MODEL NUMBERS LISTED ON PLANS ARE TO ESTABLISH A BASIS-OF-DESIGN FOR QUALITY AND PERFORMANCE. VERIFY THAT SUBSTITUTIONS WILL BE ACCEPTABLE PRIOR TO PURCHASE & INSTALLATION.
 - NOTIFY ENGINEER OF ANY MAJOR PLAN DISCREPANCIES OR CONFLICTS PRIOR TO PROVIDING BIDS OR COMPLETING ANY WORK.
 - SEE DISCIPLINE SHEETS FOR ADDITIONAL TRADE SPECIFIC SPECIFICATIONS.
 - WHERE SHUTDOWN OF ANY EXISTING UTILITY OR SERVICE TO BUILDING IS REQUIRED FOR COMPLETION OF WORK, COORDINATE OUTAGE WITH OWNER AS TO NOT DISRUPT TYPICAL OPERATIONS.
- WORKMANSHIP**
 - SYSTEMS SHALL BE INSTALLED IN A FIRST-CLASS MANNER USING BEST ACCEPTABLE METHODS AND PRACTICES.
 - ALL SYSTEMS SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO BUILDING ORIENTATION. COMPONENTS SHALL BE INSTALLED LEVEL AND PLUMB WITH ATTENTION GIVEN TO OVERALL AESTHETICS.
 - CONTRACTOR IS RESPONSIBLE FOR COORDINATING EQUIPMENT LOCATIONS AND SYSTEM ROUTING WITH OTHER TRADES PRIOR TO INSTALLATION.
 - CONTRACTOR TO GUARANTEE ALL MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE THE COMPLETED PROJECT IS RELEASED TO THE OWNER, UNLESS NOTED OTHERWISE ON PLANS. DURING INSTALLATION OF MATERIALS OR ACTIVITIES IN NEW WORK SCOPE, AVOID DAMAGING EXISTING SURFACES AND EQUIPMENT TO REMAIN. ANY DAMAGE TO EXISTING SURFACES OR EQUIPMENT SHALL BE CORRECTED AT NO COST TO OWNER.

REFERENCED CODES IN EFFECT

PROJECT HAS BEEN DESIGNED IN COMPLIANCE WITH THE FOLLOWING CODES LISTED BELOW, BUT THIS IS NOT AN EXHAUSTIVE LIST. PROJECT SHALL COMPLY WITH ALL APPLICABLE CODES, STANDARDS, AND LOCAL REQUIREMENTS.

- 2015 INTERNATIONAL MECHANICAL CODE
- 2015 INTERNATIONAL PLUMBING CODE
- 2015 INTERNATIONAL FUEL GAS CODE
- 2015 INTERNATIONAL FIRE CODE
- 2017 NATIONAL ELECTRIC CODE
- 2015 INTERNATIONAL RESIDENTIAL CODE

Sheet List Table

| Sheet Number | Sheet Title |
|--------------|--|
| MEP1 | MECHANICAL ELECTRICAL PLUMBING COVER SHEET |
| MEP2 | SITE PLAN |
| M101 | HVAC PLAN |
| M501 | HVAC DETAILS & SCHEDULES |
| EP101 | POWER PLAN |
| EL101 | LIGHTING PLAN |
| E501 | ELECTRICAL DETAILS & SCHEDULES |
| PS101 | SANITARY SEWER PLAN |
| PW101 | WATER & GAS PLAN |
| PS01 | PLUMBING DETAILS AND SCHEDULES |

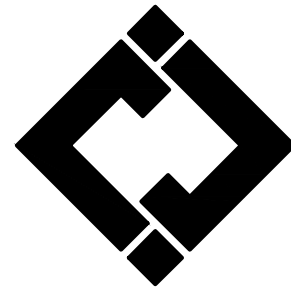
STATE OF MISSOURI
MIKE KEHOE
GOVERNOR



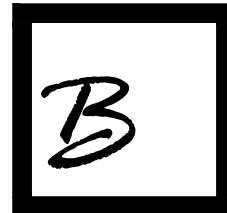
KEATON E. LESINGER, PE - 2021035875
NO CERTIFICATE OF AUTHORITY # 2018029680



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MANAGEMENT DESIGN AND
CONSTRUCTION

DIRECTOR'S HOUSE

MISSOURI STATE
FAIRGROUNDS
2503 W. 16TH ST
SEDALIA, MO 65301

PROJECT # F2402-01

SITE # 1501
ASSET # 3511501149

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____

ISSUE DATE: 7/11/2025
BID DOCUMENTS

CAD DWG FILE: _____
DRAWN BY: RXM _____
CHECKED BY: JAP _____
DESIGNED BY: KEL _____

SHEET TITLE:

**MECHANICAL
ELECTRICAL
PLUMBING
COVER
SHEET**

SHEET NUMBER:

MEP1

SITE PLAN SYMBOL LEGEND

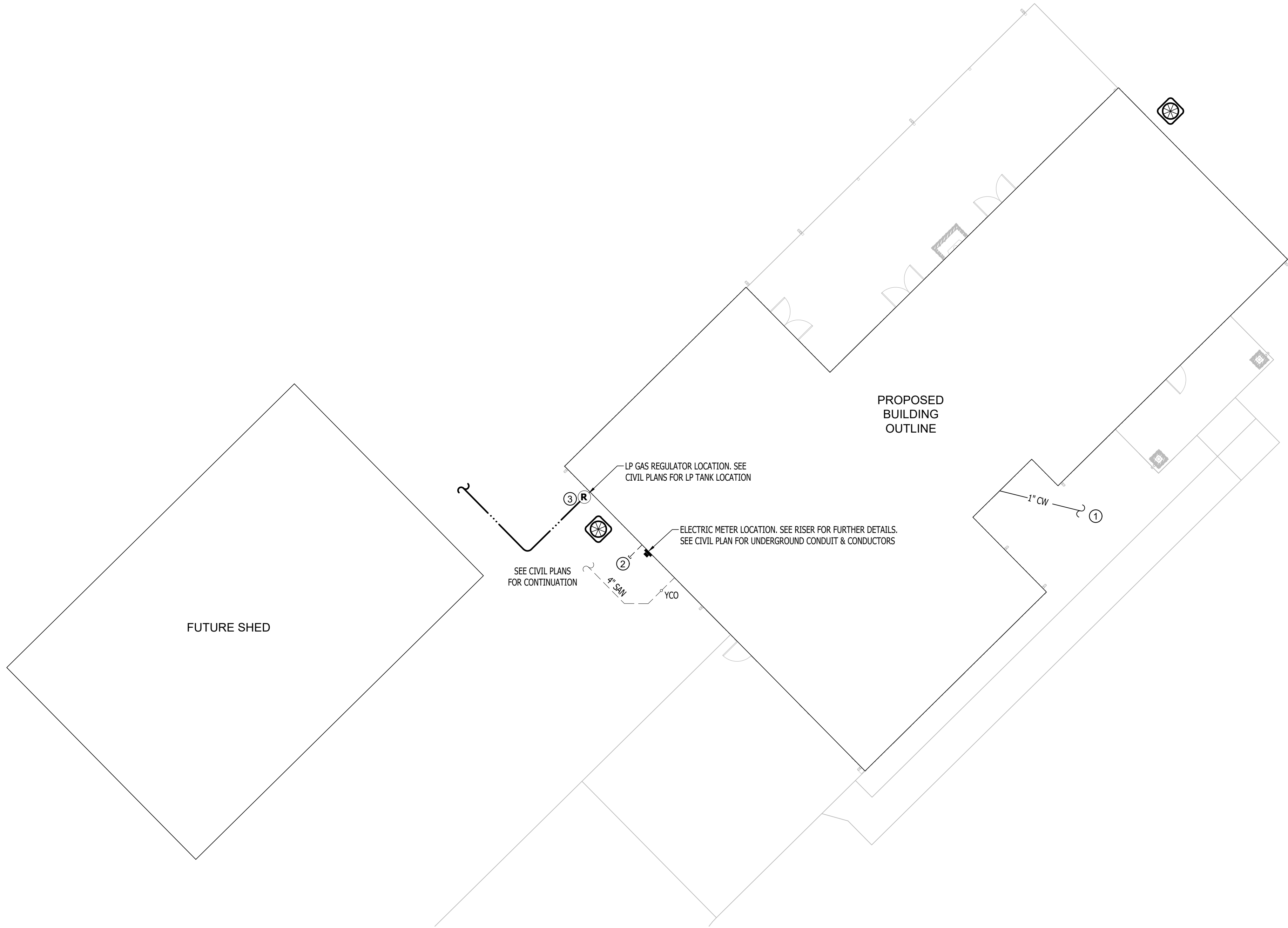
- SANITARY SEWER PIPING
- COLD WATER LINE
- ✕ VALVE
- GAS LINE
- ✕ TIE INTO EXISTING
- ELECTRIC
- - - - - CIRCUIT WIRING
- PK-XX CIRCUIT TAG
- X1 "X1" INDICATES FIXTURE TYPE (REFER TO SCHEDULE)
- POLE LIGHT
- ARROW INDICATES FORWARD AIMING DIRECTION
- + 1.1 PHOTOMETRIC CALCULATIONS (IN FOOT-CANDLES)

SITE UTILITIES PLAN GENERAL NOTES:

1. REFER TO CIVIL PLANS FOR EXACT UTILITY LOCATIONS, CONNECTIONS, DETAILS, ETC.

SITE UTILITIES PLAN KEY NOTES:

- ① SEE CIVIL SITE PLAN FOR CONTINUATION AND METER LOCATION.
- ② (1) 2" UNDERGROUND PVC CONDUIT WITH PULL-STRING FROM PANEL 'P1' TO THIS LOCATION FOR FUTURE SHED ELECTRICAL CONNECTION.
- ③ UNDERGROUND PROPANE LINE INSTALLED BY PROPANE SUPPLIER. CONTRACTOR TO PROVIDE & INSTALL 10 PSI TO 11" WC REGULATOR.



SITE PLAN
SCALE: 1" = 10 ft

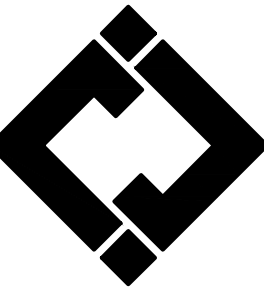
STATE OF MISSOURI
MIKE KEHOE
GOVERNOR



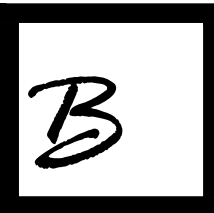
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BID DOCUMENTS

CAD DWG FILE:
DRAWN BY: RXM
CHECKED BY: JAP
DESIGNED BY: KEL

SHEET TITLE:

SITE PLAN

SHEET NUMBER:

MEP2

HVAC PLAN SYMBOL LEGEND

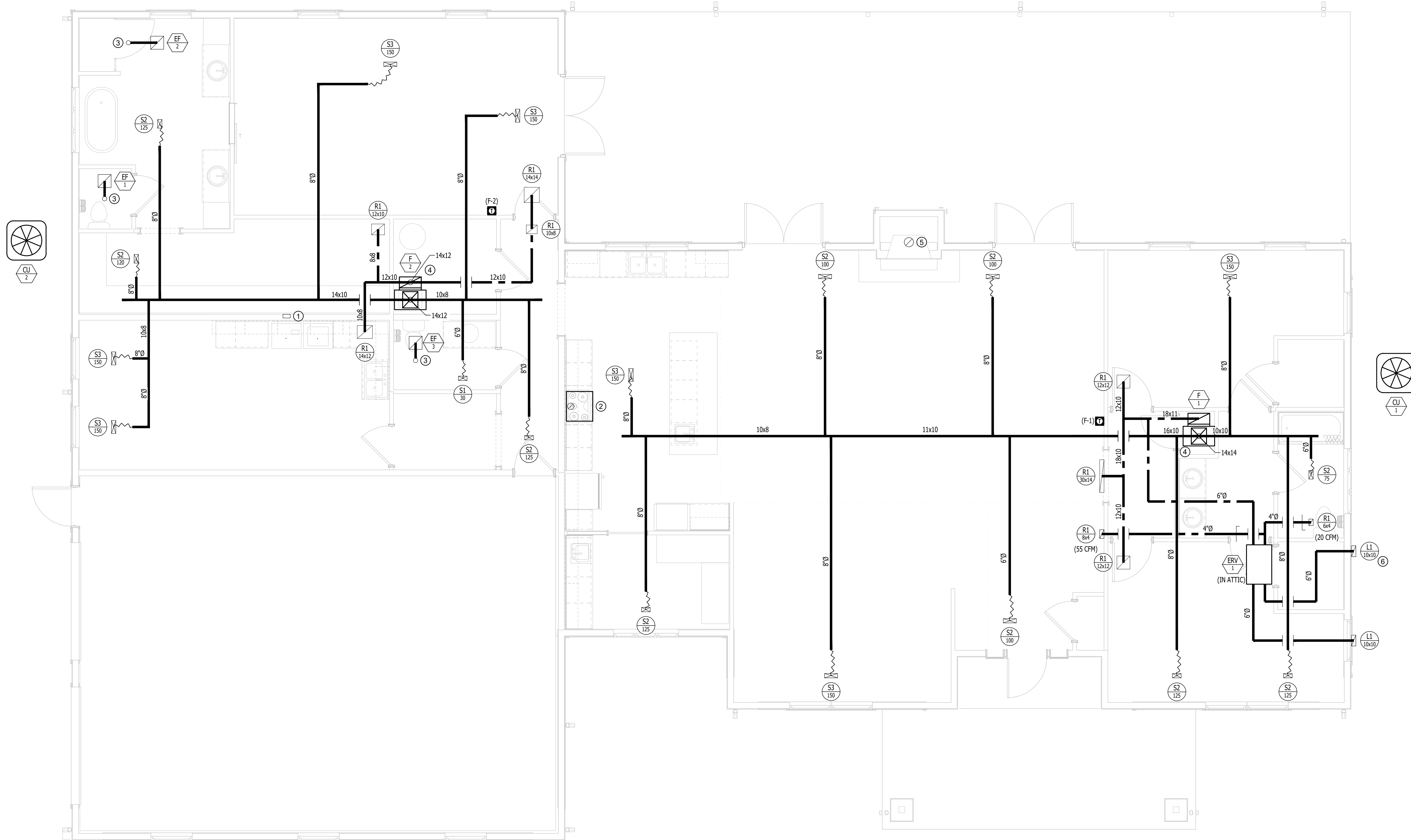
- X— EQUIPMENT TYPE (REFER TO EQUIPMENT SCHEDULE)
—X— EQUIPMENT REFERENCE NUMBER
—X— DIFFUSER/GRILLE TYPE (REFER TO SCHEDULE)
—X— CUBIC FEET PER MINUTE (CFM) / FACE SIZE
- SUPPLY DUCTWORK
- - - RETURN DUCTWORK
— EXHAUST DUCTWORK
- - - OUTSIDE AIR DUCTWORK
~~~~~ FLEX DUCT
- VENT / COMBUSTION AIR
- ✕ TIE INTO EXISTING  
▣ SUPPLY DIFFUSER (HATCH INDICATES "NO FLOW ZONE")  
▢ RETURN DIFFUSER  
| BALANCE DAMPER  
◼ THERMOSTAT

HVAC PLAN GENERAL NOTES:

1. REFER TO M500 AND/OR M600 SERIES SHEETS FOR ADDITIONAL HVAC NOTES, DETAILS, REQUIREMENTS, AND SCHEDULES.
2. HVAC CONTRACTOR SHALL REVIEW ALL PROJECT DOCUMENTS AND COORDINATE LOCATION OF ALL EQUIPMENT, DUCTWORK, REFRIGERANT PIPING, CONDENSATE PIPING, HANGERS / SUPPORTS, ETC. WITH PLUMBING AND ELECTRICAL TRADES BEFORE INSTALLATION OF ANY MATERIAL. ADDITIONAL COSTS ASSOCIATED WITH LACK OF COORDINATION WILL NOT BE REIMBURSED.
3. ALL DUCTWORK SHALL BE RAN IN ATTIC SPACE UNLESS OTHERWISE NOTED.

HVAC PLAN KEY NOTES:

- ① PROVIDE & INSTALL DRYER BOX IN WALL AND 4"Ø DRYER DUCT UP THROUGH ROOF WITH DRYERJACK #DJK477 OR EQUAL.
- ② CONTRACTOR TO COORDINATE WITH OWNER ON SELECTION OF MICROWAVE/RANGE HOOD. EXHAUST DUCT (6"Ø) SHALL BE DUCTED UP THROUGH ROOF WITH GOOSENECK FITTING & ½" HARDWARE CLOTH OVER OPENING.
- ③ 4"Ø EXHAUST DUCT UP TO ROOF VENT KIT. INSTALL PER MANUFACTURERS SPECIFICATIONS.
- ④ COMBUSTION AIR/VENT PIPE UP THROUGH ROOF WITH CONCENTRIC VENT KIT.
- ⑤ PROVIDE AND INSTALL GAS FIREPLACE AND EXHAUST DUCT UP THROUGH ROOF PER MANUFACTURER'S REQUIREMENTS. SEE ARCHITECTURAL PLANS FOR MAKE & MODEL OF FIREPLACE.
- ⑥ MAINTAIN 10"Ø DISTANCE AWAY FROM OUTSIDE AIR INTAKE LOCATION.



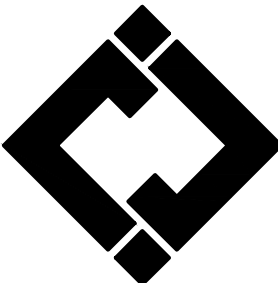
HVAC PLAN  
SCALE: 1/4" = 1'-0"



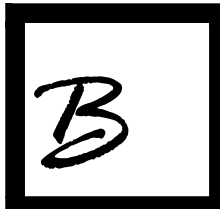
KEATON E. LEISINGER, PE - 2021035875  
NO CERTIFICATE OF AUTHORITY # 2018029680



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BID DOCUMENTS

CAD DWG FILE:  
DRAWN BY: RXM  
CHECKED BY: JAP  
DESIGNED BY: KEL

SHEET TITLE:

HVAC PLAN

SHEET NUMBER:

M101

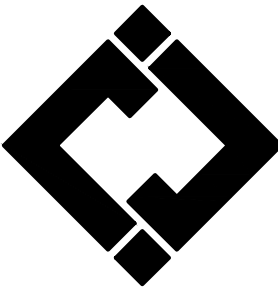




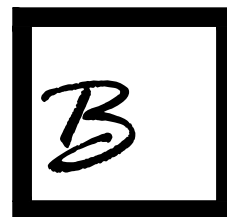
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DRAWN BY: RXM  
CHECKED BY: JAP  
DESIGNED BY: KEL

SHEET TITLE:

**HVAC  
DETAILS &  
SCHEDULES**

SHEET NUMBER:

**M501**

PAGE 30 OF 36  
7/11/2025

### HVAC SCHEDULE

| TAG   | EQUIPMENT DESCRIPTION | SIZE (TONS) | ORIENTATION | TOTAL AIRFLOW (CFM) | E.S.P. (in. H2O) | HEATING          |                    | COOLING (IA: 80 DB/67 WB, OA: 95 DB) |              |                  | ELECTRICAL |     |     | NOTES |
|-------|-----------------------|-------------|-------------|---------------------|------------------|------------------|--------------------|--------------------------------------|--------------|------------------|------------|-----|-----|-------|
|       |                       |             |             |                     |                  | GAS INPUT (KBTU) | MIN. AFUE EFF. (%) | SENSIBLE (KBTU)                      | TOTAL (KBTU) | MIN EFF. (SEER2) | VOLTS/PH   | MCA | OCP |       |
| F-1   | FURNACE               | 3.0         | UPFLOW      | 1200                | 0.5              | 60               | 90                 | -                                    | -            | -                | 120        | 10  | 20  | 1     |
| CU-1  | CONDENSING UNIT       | 3.0         | -           | -                   | -                | -                | -                  | 25                                   | 33.7         | 13.4             | 240/1      | 18  | 30  | 2     |
| F-2   | FURNACE               | 2.5         | UPFLOW      | 1000                | 0.5              | 60               | 90                 | -                                    | -            | -                | 120        | 10  | 20  | 1     |
| CU-2  | CONDENSING UNIT       | 2.5         | -           | -                   | -                | -                | -                  | 21.9                                 | 31.5         | 13.4             | 240/1      | 16  | 25  | 2     |
| ERV-1 | ENERGY RECOVERY UNIT  | -           | HORIZONTAL  | 75                  | 0.75             | 68% EFF          |                    | 53% EFF                              |              |                  | 120        | 1   | 15  | 3     |

**NOTES:**

- PROVIDE AND INSTALL 7 DAY PROGRAMABLE HONEYWELL THERMOSTAT. COORDINATE EXACT MOUNTING LOCATION WITH OWNER.
- WITH FACTORY HAIL GUARD.
- EQUAL TO RENEWAIRE #SL75H. ERV SHALL RUN CONTINUOUSLY PER IRC SECTION 1507.

### EXHAUST FAN SCHEDULE

| TAG  | EQUIPMENT TYPE         | MANUFACTURER (OR EQUAL) | MODEL (OR EQUAL) | FLOW |       | ELECTRICAL |     |     | PHYSICAL DIM. | NOTES |
|------|------------------------|-------------------------|------------------|------|-------|------------|-----|-----|---------------|-------|
|      |                        |                         |                  | CFM  | S.P.  | VOLT/PH    | MCA | OCP |               |       |
| EF-1 | IN-CEILING EXHAUST FAN | BROAN                   | 688              | 50   | 1/10" | 120 / 1    | 1   | 15  | 7x8x4         | 1,2   |
| EF-2 | IN-CEILING EXHAUST FAN | BROAN                   | 688              | 50   | 1/10" | 120 / 1    | 1   | 15  | 7x8x4         | 1,2   |
| EF-3 | IN-CEILING EXHAUST FAN | BROAN                   | 688              | 50   | 1/10" | 120 / 1    | 1   | 15  | 7x8x4         | 1,2   |

**NOTES:**

- WITH BACKDRAFT DAMPER
- WITH ROOF VENT KIT M# RVK1A.

### AIR DEVICE SCHEDULE

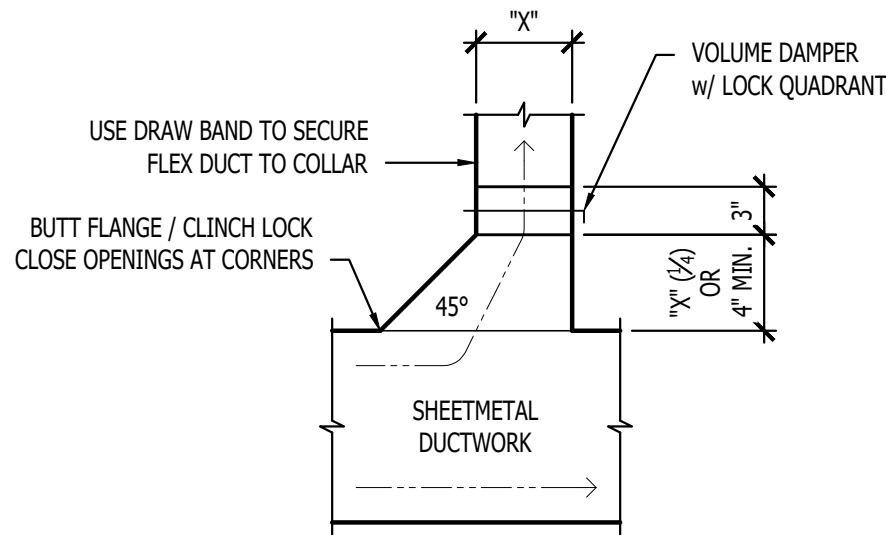
| TAG | SERVICE | MANUFACTURER (OR EQUAL) | MODEL (OR EQUAL) | SIZE      | COLOR / FINISH | NOTES |
|-----|---------|-------------------------|------------------|-----------|----------------|-------|
| L1  | OA/EX   | POTTORFF                | EFD-445          | 10x10     | PRIMED         | 1,3   |
| R1  | RETURN  | HART & COOLEY           | 672              | SEE PLANS | WHITE          | 1     |
| S1  | SUPPLY  | HART & COOLEY           | 682              | 8x4       | WHITE          | 1,2   |
| S2  | SUPPLY  | HART & COOLEY           | 682              | 12x6      | WHITE          | 1,2   |
| S3  | SUPPLY  | HART & COOLEY           | 682              | 14x8      | WHITE          | 1,2   |

**NOTES:**

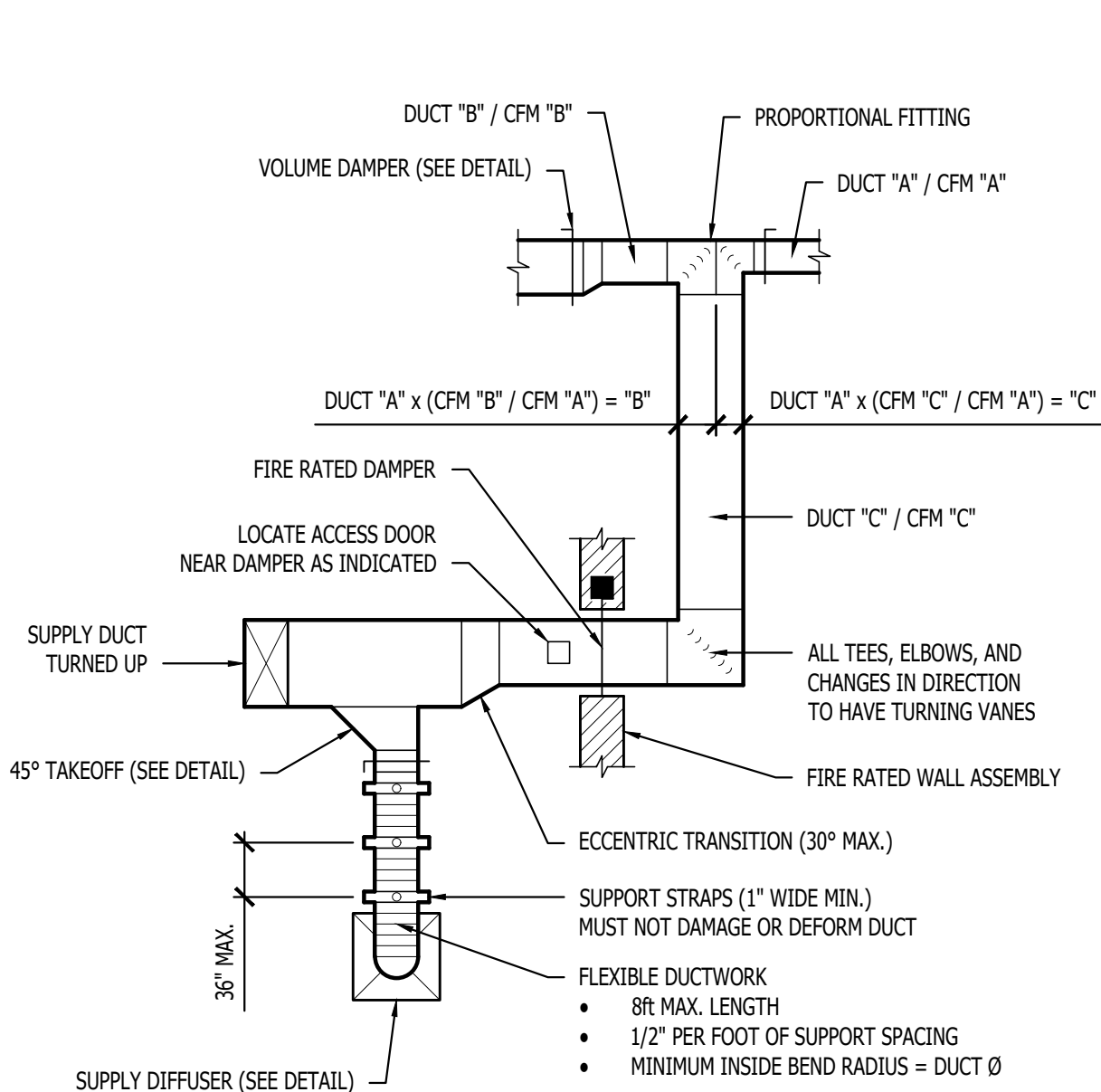
- VERIFY AIR DEVICE FINISHES WITH OWNER/ARCHITECT PRIOR TO INSTALLATION
- SEE PLANS FOR AIRFLOW
- PAINT TO MATCH EXTERIOR.

### DIFFUSER NECK SIZING SCHEDULE

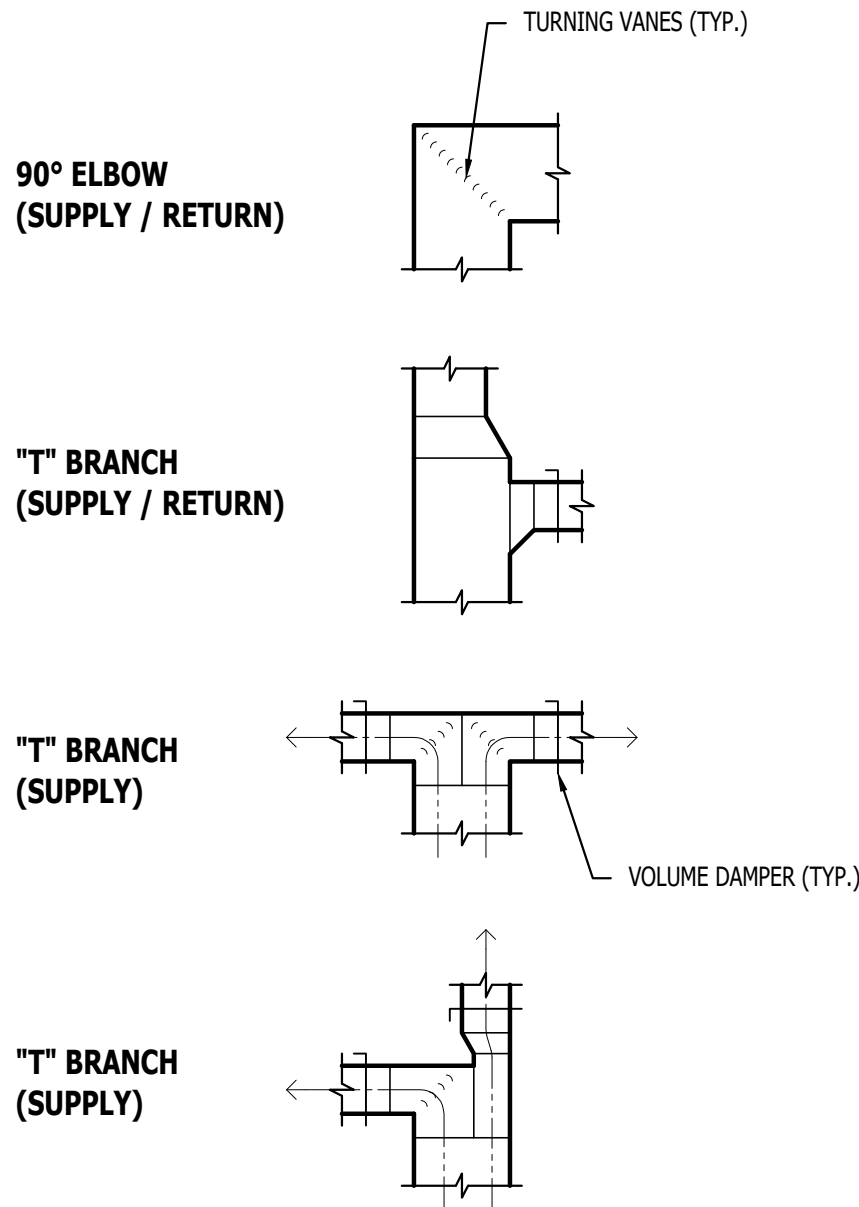
| AIRFLOW (CFM) | NECK SIZE (in) |
|---------------|----------------|
| 0 - 120       | 6"             |
| 120 - 210     | 8"             |
| 210 - 325     | 10"            |
| 325 - 470     | 12"            |
| 470 - 640     | 14"            |



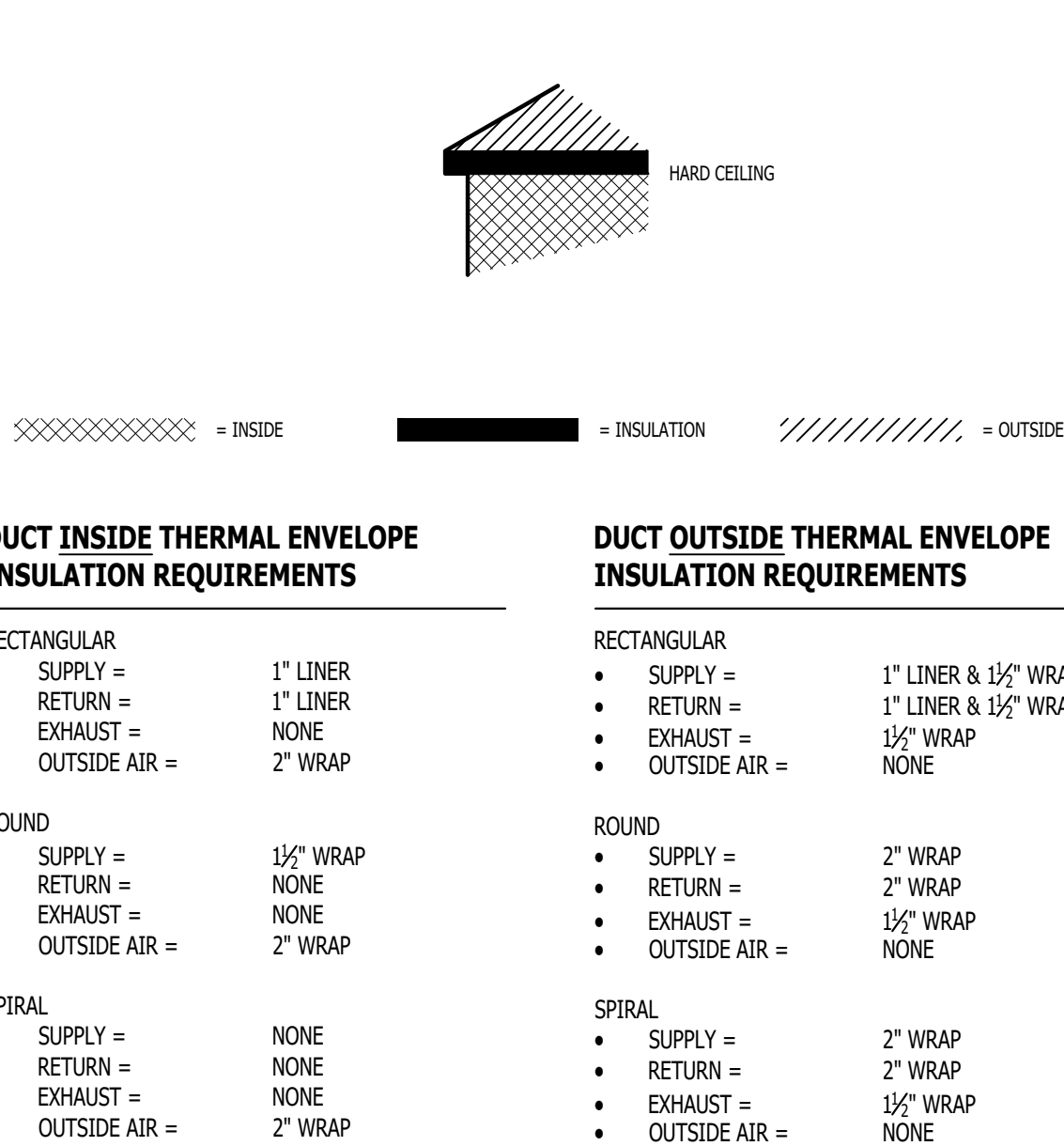
TYPICAL 45° TAKEOFF DETAIL



TYPICAL DUCTWORK DETAIL



TYPICAL DUCTWORK FITTINGS DETAIL



#### DUCT INSIDE THERMAL ENVELOPE INSULATION REQUIREMENTS

RECTANGULAR  
• SUPPLY = 1" LINER  
• RETURN = 1" LINER  
• EXHAUST = NONE  
• OUTSIDE AIR = 2" WRAP

ROUND  
• SUPPLY = 1½" WRAP  
• RETURN = NONE  
• EXHAUST = NONE  
• OUTSIDE AIR = 2" WRAP

SPIRAL  
• SUPPLY = NONE  
• RETURN = NONE  
• EXHAUST = NONE  
• OUTSIDE AIR = 2" WRAP

#### DUCT OUTSIDE THERMAL ENVELOPE INSULATION REQUIREMENTS

RECTANGULAR  
• SUPPLY = 1" LINER & 1½" WRAP  
• RETURN = 1" LINER & 1½" WRAP  
• EXHAUST = 1½" WRAP  
• OUTSIDE AIR = NONE

ROUND  
• SUPPLY = 2" WRAP  
• RETURN = 2" WRAP  
• EXHAUST = 1½" WRAP  
• OUTSIDE AIR = NONE

SPIRAL  
• SUPPLY = 2" WRAP  
• RETURN = 2" WRAP  
• EXHAUST = 1½" WRAP  
• OUTSIDE AIR = NONE

TYPICAL BUILDING INTERIOR DUCT INSULATION DIAGRAM



POWER PLAN SYMBOL LEGEND

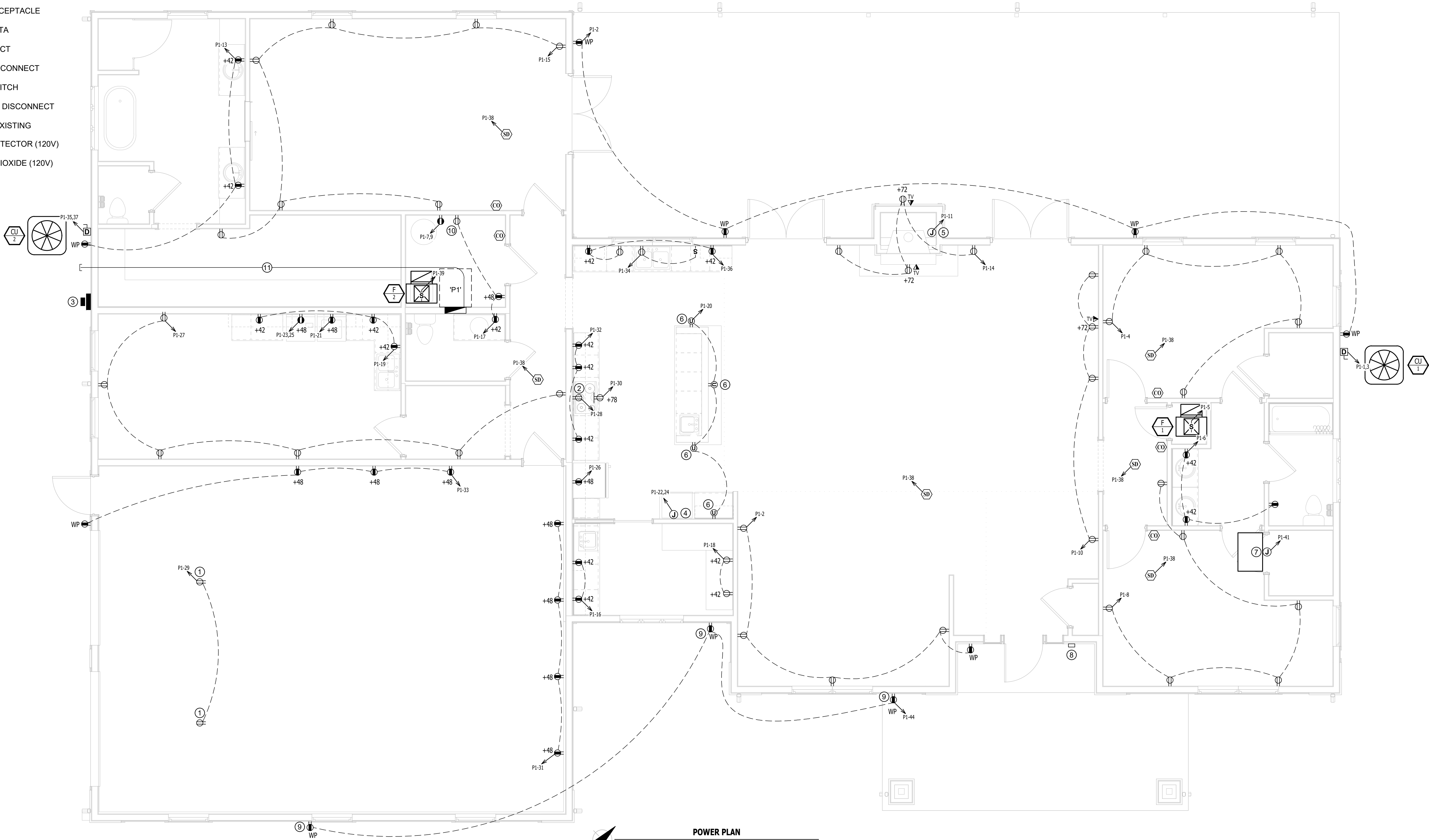
- CIRCUIT WIRING
- CIRCUIT TAG
- JUNCTION BOX
- RECEPTACLE
- INDICATES MOUNTING HEIGHT TO BOTTOM OF BOX  
(STANDARD @ 18" AFF UNLESS NOTED OTHERWISE)
- "WP" = WEATHERPROOF OUTDOOR RECEPTACLE
- "AW" = ABOVE WINDOW RECEPTACLE
- "AC" = ABOVE CEILING RECEPTACLE
- "EX" = EXISTING RECEPTACLE TO REMAIN
- GFCI DUPLEX CONVENIENCE RECEPTACLE
- 208V RECEPTACLE
- QUADPLEX CONVENIENCE RECEPTACLE
- USB OUTLET
- WITH USB-A & USB-C CHARGING PORT
- DATA / PHONE JACK
- BOX WITH 1" CONDUIT & PULL STRING) UP TO CEILING SPACE  
(STANDARD @ 18" AFF UNLESS NOTED OTHERWISE)
- WIRELESS ACCESS POINT, CEILING MOUNTED
- FLOOR RECEPTACLE
- FLOOR DATA
- DISCONNECT
- FUSED DISCONNECT
- FUSED SWITCH
- STARTER / DISCONNECT
- TIE INTO EXISTING
- SMOKE DETECTOR (120V)
- CARBON DIOXIDE (120V)

POWER PLAN GENERAL NOTES:

1. REFER TO E500 AND/OR E600 SERIES SHEETS FOR ADDITIONAL ELECTRICAL NOTES, DETAILS, REQUIREMENTS, AND SCHEDULES.
2. ELECTRICAL CONTRACTOR SHALL REVIEW ALL PROJECT DOCUMENTS AND COORDINATE LOCATION OF ALL ELECTRICAL EQUIPMENT, WIRING, HANGERS / SUPPORTS, ETC. WITH HVAC AND PLUMBING TRADES BEFORE INSTALLATION OF ANY MATERIAL. ADDITIONAL COSTS ASSOCIATED WITH LACK OF COORDINATION WILL NOT BE REIMBURSED.

POWER PLAN KEY NOTES:

- ① GARAGE DOOR OPENER POWER. MOUNT RECEPTACLE TO CEILING.
- ② COUNTER INTEGRATED COOK TOP POWER. COORDINATE EXACT POWER LOCATION WITH MANUFACTURERS SPECIFICATIONS.
- ③ ELECTRIC METER LOCATION. SEE POWER RISER FOR FURTHER DETAILS.
- ④ COORDINATE DOUBLE OVEN JUNCTION BOX LOCATION WITH MANUFACTURER'S SPECIFICATION PRIOR TO ROUGH-IN.
- ⑤ CONNECTION TO GAS FIREPLACE. COORDINATE CONNECTION REQUIREMENTS WITH MANUFACTURER SPECIFICATIONS PRIOR TO INSTALLATION.
- ⑥ PROVIDE GFCI PROTECTED USB RECEPTACLE.
- ⑦ J-BOX IN ATTIC FOR ENERGY RECOVERY UNIT HARD WIRED CONNECTION.
- ⑧ DOORBELL. COORDINATE WITH OWNER FOR SELECTION.
- ⑨ RECEPTACLE MOUNTED ON SOFFIT.
- ⑩ COORDINATE RECEPTACLE HEIGHT WITH RECIRCULATION PUMP LOCATION. COORDINATE WITH PLUMBING CONTRACTOR.
- ⑪ (1) SPARE 2" UNDERGROUND PVC CONDUIT WITH PULL STRING FOR FUTURE SHOP PANEL.



POWER PLAN

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

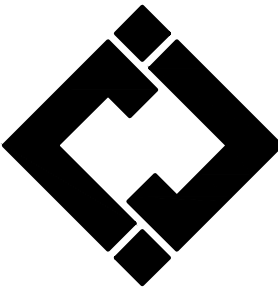
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MIKE KEHOE  
GOVERNOR



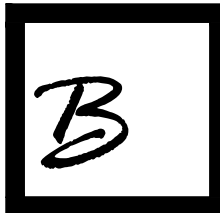
KEATON E. LISINGER, PE - 2021035875  
NO CERTIFICATE OF AUTHORITY # 2018029680



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2503 W. 16TH ST  
SEDALIA, MO 65301

PROJECT # F2402-01

SITE # 1501

ASSET # 3511501149

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_

ISSUE DATE: 7/11/2025

BID DOCUMENTS

CAD DWG FILE:  
DRAWN BY: RXM  
CHECKED BY: JAP  
DESIGNED BY: KEL

SHEET TITLE:

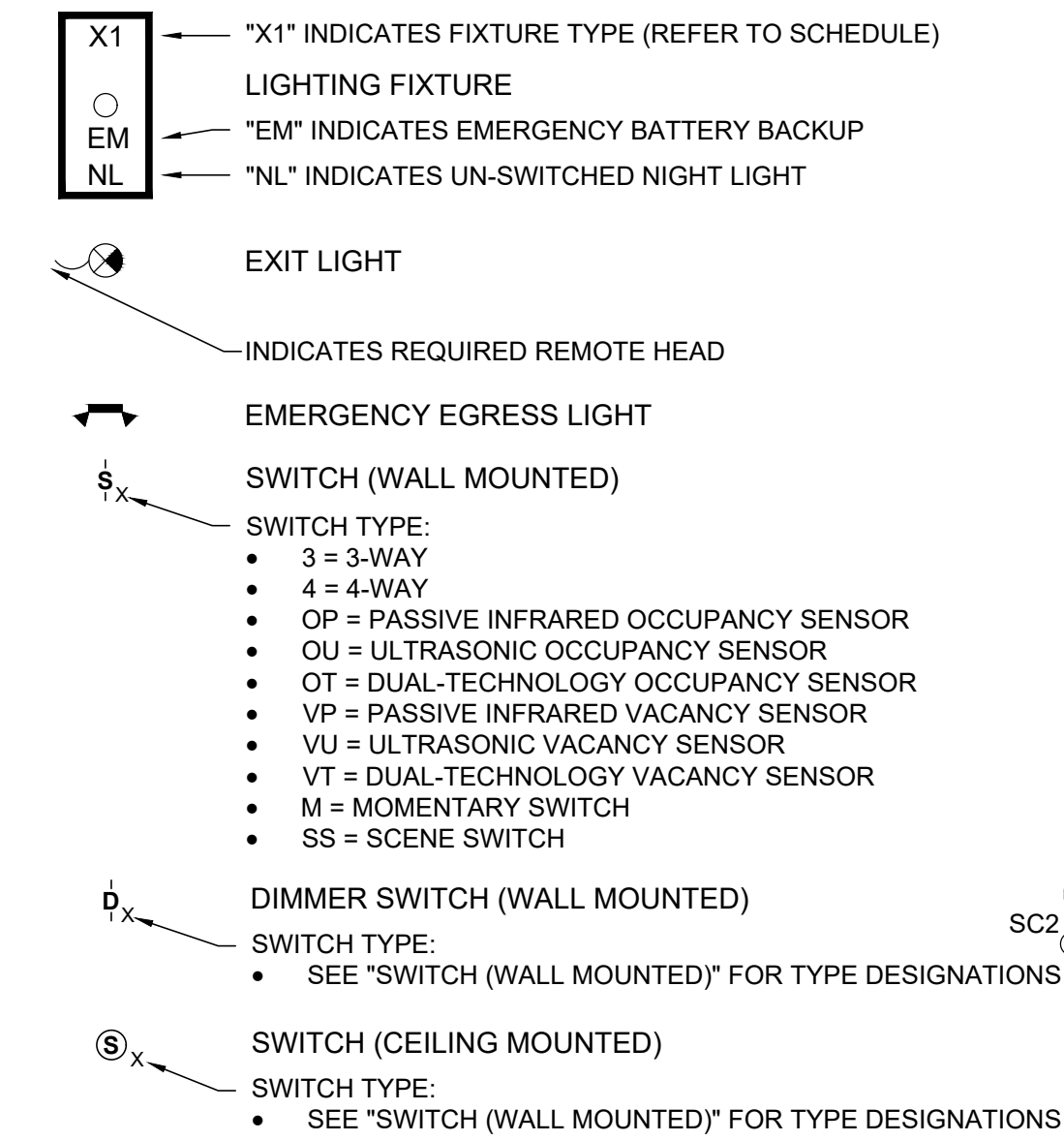
POWER  
PLAN

SHEET NUMBER:

EP101



LIGHTING PLAN SYMBOL LEGEND

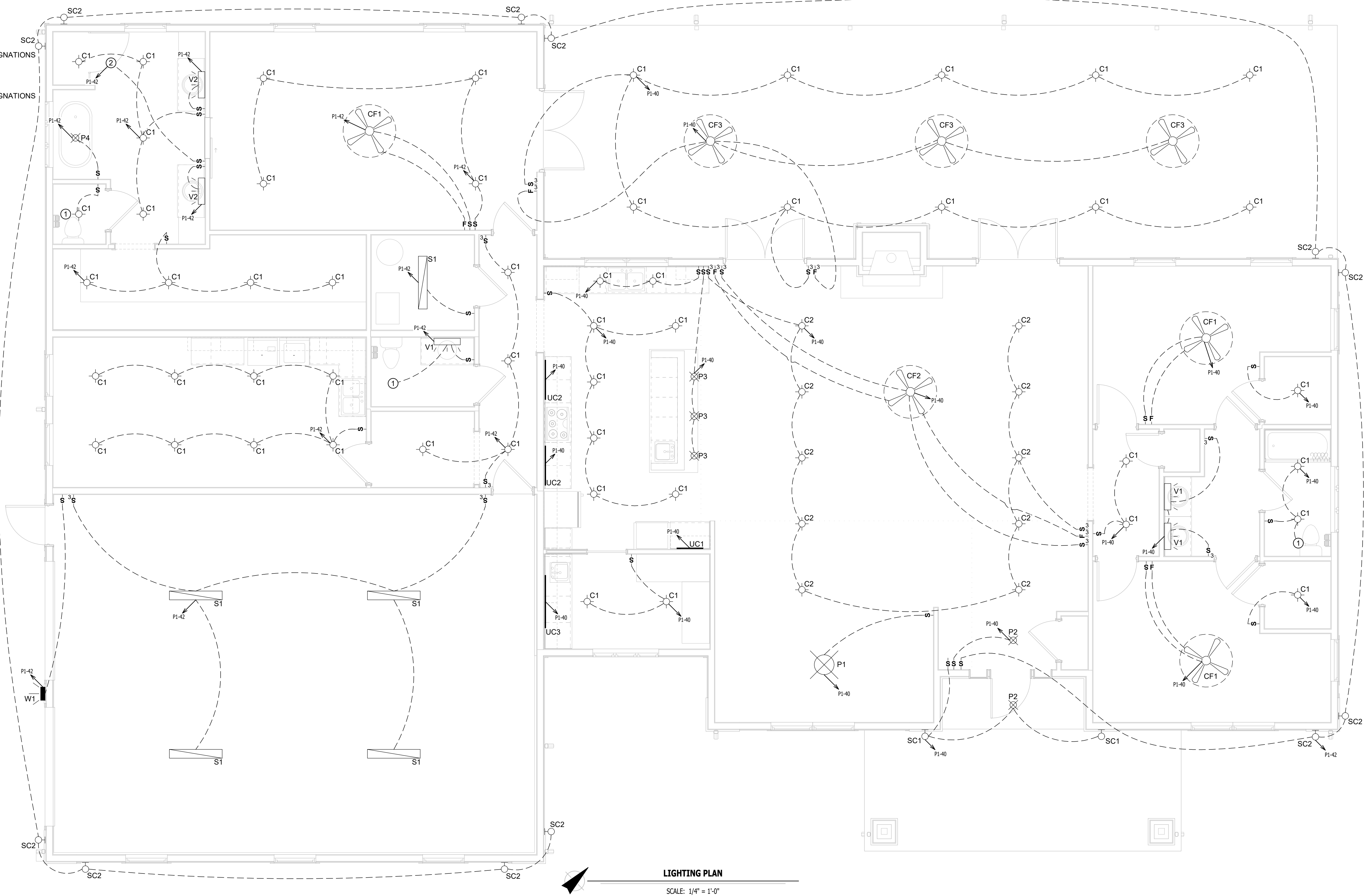


LIGHTING PLAN GENERAL NOTES:

1. REFER TO E500 AND/OR E600 SERIES SHEETS FOR ADDITIONAL LIGHTING NOTES, DETAILS, REQUIREMENTS, AND SCHEDULES.
2. OCCUPANCY/VACANCY SENSOR QUANTITIES AND GENERAL LOCATIONS SHOWN FOR REFERENCE ONLY. CONTRACTOR TO PROVIDE & INSTALL SENSOR WITH SPACING PER MANUFACTURER'S SPECIFICATIONS AND INCLUDE ADDITIONAL SENSORS IF NECESSARY. CEILING-MOUNTED SENSORS SHALL BE INSTALLED WITHIN MANUFACTURER'S ACCEPTABLE MOUNTING HEIGHT RANGE.
3. ELECTRICAL CONTRACTOR SHALL REVIEW ALL PROJECT DOCUMENTS AND COORDINATE LOCATION OF ALL FIXTURES, WIRING, HANGERS / SUPPORTS, ETC. WITH HVAC AND PLUMBING TRADES BEFORE INSTALLATION OF ANY MATERIAL. ADDITIONAL COSTS ASSOCIATED WITH LACK OF COORDINATION WILL NOT BE REIMBURSED.

LIGHTING PLAN KEY NOTES:

- ① LIGHT SWITCH SHALL CONTROL EXHAUST FAN.
- ② DEDICATED SWITCH FOR EXHAUST FAN.



LIGHTING PLAN

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

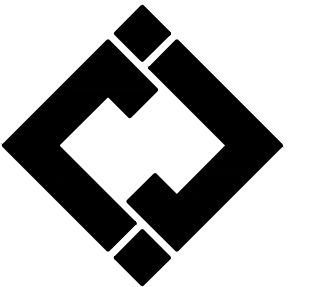
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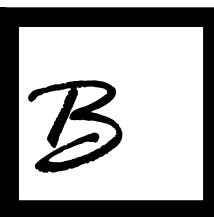


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ISSUE DATE: 7/11/2025

BID DOCUMENTS

CAD DWG FILE:  
DRAWN BY: RXM  
CHECKED BY: JAP  
DESIGNED BY: KEL

SHEET TITLE:

LIGHTING  
PLAN

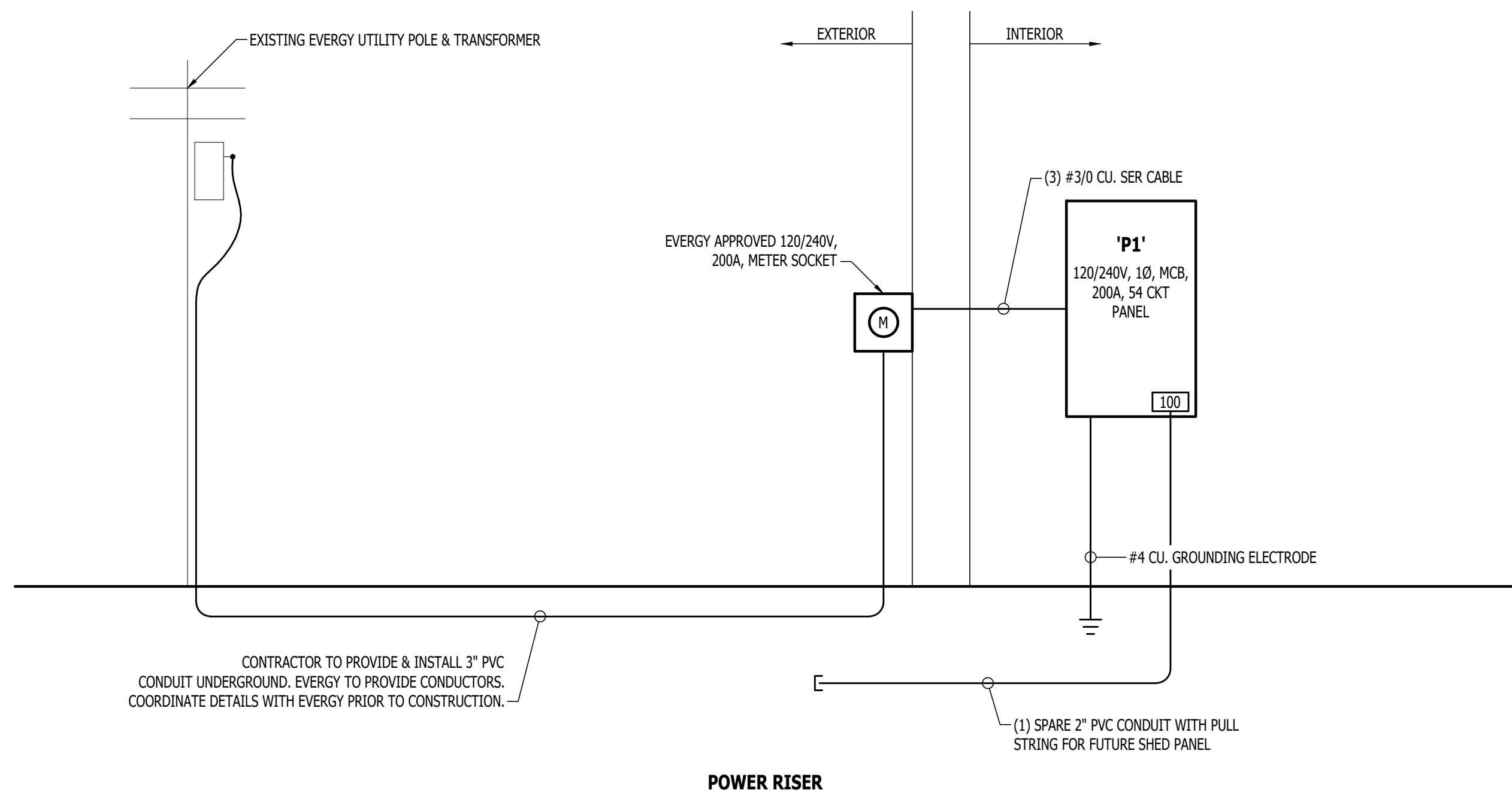
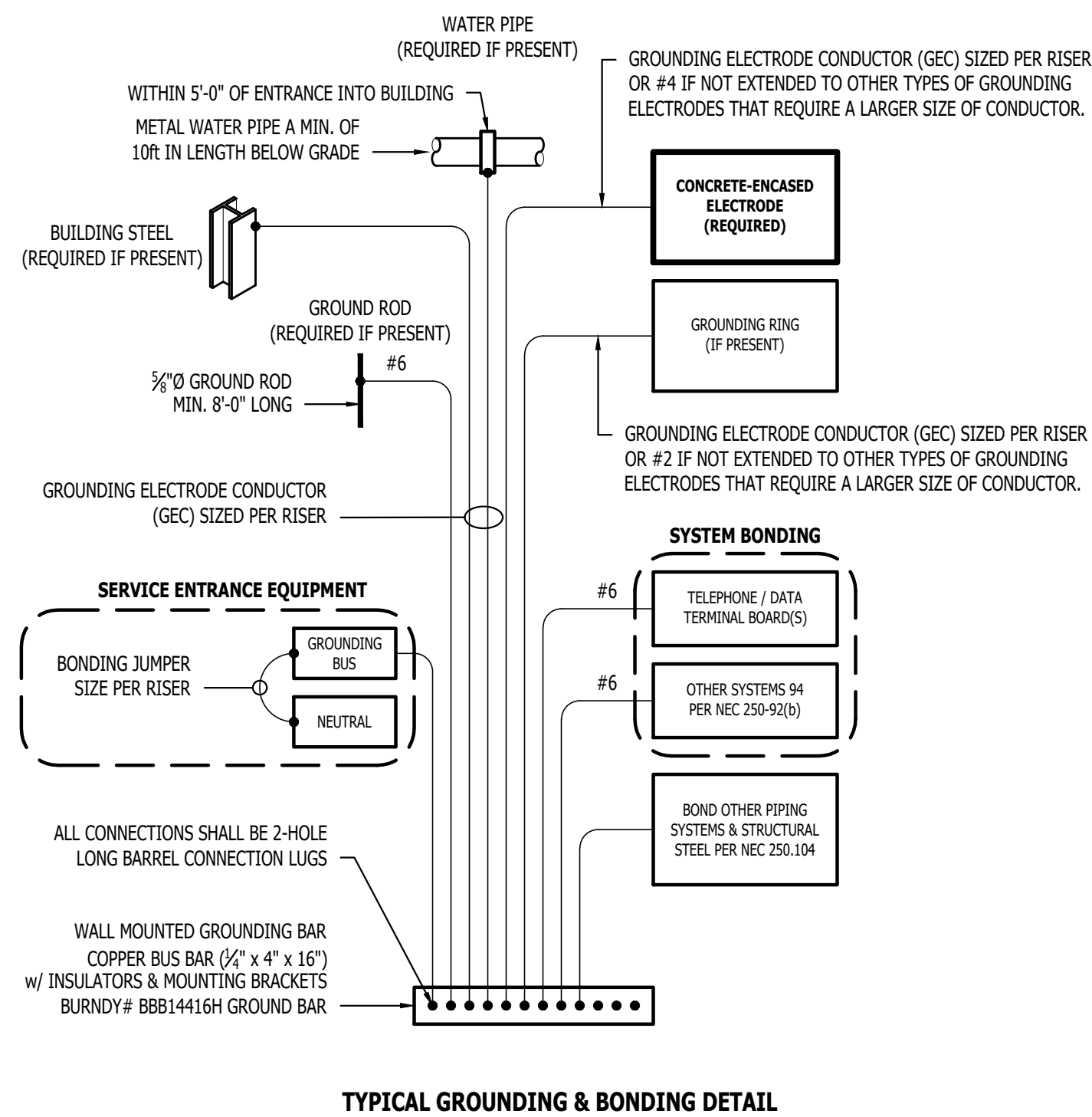
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7/11/2025



| LIGHT FIXTURE SCHEDULE                                                         |                            |                            |                                |          |                 |          |     |          |       |         |                                    |
|--------------------------------------------------------------------------------|----------------------------|----------------------------|--------------------------------|----------|-----------------|----------|-----|----------|-------|---------|------------------------------------|
| TAG                                                                            | MANUFACTURER<br>(OR EQUAL) | MODEL NUMBER<br>(OR EQUAL) | DESCRIPTION                    | MOUNTING | LUMEN<br>OUTPUT | CCT (°K) | CRI | VOLTA GE | WATTS | DIMMING | NOTES                              |
| C1                                                                             | HALO                       | SMDR-6-95-WH               | 4" ROUND LED                   | SURFACE  | 700             | 3000     | 90  | 120      | 10    | 120V    |                                    |
| C2                                                                             | HALO                       | RA4LS9FS02W1LEWHDM         | 4" ROUND LED ADJUSTABLE CAN    | RECESSED | 600             | 3000     | 90  | 120      | 6     | 120V    | WITH CANLESS MOUNTING FRAMES       |
| CF1                                                                            | HUNTER                     | 51223                      | 44" FAN WITH LIGHT KIT         | SURFACE  | 1500            | 3000     | 80  | 120      | 50    | 120V    |                                    |
| CF2                                                                            | HUNTER                     | 52615                      | 60" FAN WITH LIGHT KIT         | SURFACE  | 1500            | 3000     | 80  | 120      | 50    | 120V    | WITH FAN AND LIGHT WALL CONTROLLER |
| CF3                                                                            | HUNTER                     | 59471                      | 54" OUTDOOR FAN WITH LIGHT KIT | SURFACE  | 900             | 3000     | 80  | 120      | 70    | 120V    | WITH FAN AND LIGHT WALL CONTROLLER |
| P1                                                                             | VISUAL COMFORT & CO.       | CHC 2156GI                 | DECORATIVE PENDANT             | PENDANT  | -               | 3000     | 80  | 120      | 50    | 120V    |                                    |
| P2                                                                             | VISUAL COMFORT & CO.       | CHC 1408GI-SG              | DECORATIVE PENDANT             | PENDANT  | -               | 3000     | 80  | 120      | 50    | 120V    |                                    |
| P3                                                                             | VISUAL COMFORT & CO.       | CHC 2165AB                 | DECORATIVE PENDANT             | PENDANT  | -               | 3000     | 80  | 120      | 50    | 120V    |                                    |
| P4                                                                             | VISUAL COMFORT & CO.       | CC1254PN                   | DECORATIVE PENDANT             | PENDANT  | -               | 3000     | 80  | 120      | 50    | 120V    |                                    |
| P5                                                                             | VISUAL COMFORT & CO.       | OL144085BL                 | DECORATIVE PENDANT             | PENDANT  | -               | 4000     | 70  | 120      | 60    | -       |                                    |
| S1                                                                             | METALUX                    | 4SLSTP40400D-120V          | 4' LINEAR                      | SURFACE  | 5000            | 4000     | 80  | 120      | 40    | 0-10V   |                                    |
| SC1                                                                            | VISUAL COMFORT & CO.       | OL15402TXB                 | DECORATIVE SCONCE              | WALL     | 400             | 4000     | 70  | 120      | 60    | -       |                                    |
| SC2                                                                            | VISUAL COMFORT & CO.       | OL15400TXB                 | DECORATIVE SCONCE              | WALL     | 400             | 4000     | 70  | 120      | 75    | -       |                                    |
| UC1                                                                            | HALO                       | HU30M-SCTD-24-P            | 24" LED UNDERCABINET FIXTURE   | SURFACE  | 670             | 3000     | 90  | 120      | 10    | -       | UNDERCOUNTER MOUNTED               |
| UC2                                                                            | HALO                       | HU30M-SCTD-36-P            | 36" LED UNDERCABINET FIXTURE   | SURFACE  | 915             | 3000     | 90  | 120      | 13    | -       | UNDERCOUNTER MOUNTED               |
| UC3                                                                            | HALO                       | HU30M-SCTD-48-P            | 48" LED UNDERCABINET FIXTURE   | SURFACE  | 1250            | 3000     | 90  | 120      | 18    | -       | UNDERCOUNTER MOUNTED               |
| V1                                                                             | VISUAL COMFORT & CO.       | VS244030RB                 | VANITY                         | WALL     | 2400            | 3000     | 90  | 120      | 30    | -       | MOUNTED ABOVE MIRROR               |
| V2                                                                             | VISUAL COMFORT & CO.       | VS243040RB                 | VANITY                         | WALL     | 3200            | 3000     | 90  | 120      | 40    | -       | MOUNTED ABOVE MIRROR               |
| W1                                                                             | HALO                       | WXP540UNVBZ                | LED WALL PACK                  | WALL     | 3700            | 4000     | 70  | 120      | 30    | -       | MOUNTED ABOVE GARAGE DOOR          |
| NOTES:                                                                         |                            |                            |                                |          |                 |          |     |          |       |         |                                    |
| 1. VERIFY LIGHT FIXTURE FINISHES WITH OWNER / ARCHITECT PRIOR TO INSTALLATION. |                            |                            |                                |          |                 |          |     |          |       |         |                                    |



# PANEL 'P1' SCHEDULE

| PANEL SPECIFICATIONS   |                                |              |                          |       |       | TOTAL CONNECTED LOAD       |                                |                |  |
|------------------------|--------------------------------|--------------|--------------------------|-------|-------|----------------------------|--------------------------------|----------------|--|
| VOLTAGE: 120/240V 1-PH |                                |              | NEMA RATING: 1           |       |       | PHASE "A" LOAD: 207 AMPS   |                                |                |  |
| AMPACITY: 200A MCB     |                                |              | PANEL MOUNTING: RECESSED |       |       | PHASE "B" LOAD: 210.8 AMPS |                                |                |  |
| AIC-RATING: 10kA       |                                |              |                          |       |       |                            |                                |                |  |
| CIRCUIT NUMBER         | DESCRIPTION                    | BREAKER SIZE | AMPS                     | PHASE | AMPS  | BREAKER SIZE               | DESCRIPTION                    | CIRCUIT NUMBER |  |
| 1                      | CONDENSING UNIT (CU-1)         | 30-2         | 18                       | A     | 7.5   | 20-1*                      | OUTDOOR / WP RECEPTS           | 2              |  |
| 3                      | -                              | -            | 18                       | B     | 7.5   | 20-1*                      | BEDROOM 1 / RECEPTS            | 4              |  |
| 5                      | FURNACE (F-1)                  | 20-1         | 10                       | A     | 4.5   | 20-1*                      | BATHROOM / GFCI RECEPTS        | 6              |  |
| 7                      | WATER HEATER                   | 30-2         | 20                       | B     | 9     | 20-1*                      | BEDROOM 2 / RECEPTS            | 8              |  |
| 9                      | -                              | -            | 20                       | A     | 7.5   | 20-1*                      | LIVING ROOM / RECEPTS          | 10             |  |
| 11                     | GAS FIREPLACE POWER            | 20-1         | 1                        | B     | 7.5   | 20-1*                      | LIVING ROOM / RECEPTS          | 12             |  |
| 13                     | MASTER BED / RESTROOM GFCI     | 20-1*        | 4.5                      | A     | 6     | 20-1*                      | LIVING ROOM / RECEPTS          | 14             |  |
| 15                     | MASTER BED / RECEPTS           | 20-1*        | 10.5                     | B     | 3     | 20-1*                      | PANTRY / GFCI RECEPTS          | 16             |  |
| 17                     | HALL RESTROOM / GFCI           | 20-1*        | 3                        | A     | 4.5   | 20-1*                      | PANTRY / FUTURE REF            | 18             |  |
| 19                     | LAUNDRY / COUNTER GFCI RECEPTS | 20-1*        | 4.5                      | B     | 6     | 20-1*                      | KITCHEN / ISLAND GFCI RECEPTS  | 20             |  |
| 21                     | LAUNDRY / CLOTHES WASHER       | 20-1         | 8                        | A     | 35    | 40-2                       | KITCHEN / OVEN                 | 22             |  |
| 23                     | LAUNDRY / CLOTHES DRYER        | 30-2         | 20                       | B     | 35    | -                          | -                              | 24             |  |
| 25                     | -                              | -            | 20                       | A     | 5     | 20-1*                      | KITCHEN / REF                  | 26             |  |
| 27                     | LAUNDRY / RECEPTS              | 20-1*        | 9                        | B     | 5     | 20-1*                      | KITCHEN / COOKTOP              | 28             |  |
| 29                     | GARAGE / DOOR OPERATORS        | 20-1         | 8                        | A     | 3     | 20-1*                      | KITCHEN / RANGE HOOD MICROWAVE | 30             |  |
| 31                     | GARAGE / RECEPTS               | 20-1         | 6                        | B     | 4.5   | 20-1*                      | KITCHEN / COUNTER GFCI RECEPTS | 32             |  |
| 33                     | GARAGE / RECEPTS               | 20-1         | 6                        | A     | 5     | 20-1*                      | KITCHEN / DISP & DISHWASHER    | 34             |  |
| 35                     | CONDENSING UNIT (CU-2)         | 25-2         | 16                       | B     | 3     | 20-1*                      | KITCHEN / COUNTER GFCI RECEPTS | 36             |  |
| 37                     | -                              | -            | 16                       | A     | 1     | 20-1                       | SMOKE DETECTORS                | 38             |  |
| 39                     | FURNACE (F-2)                  | 20-1         | 10                       | B     | 10.8  | 20-1*                      | LIGHTING                       | 40             |  |
| 41                     | ENERGY RECOVERY UNIT (ERV-1)   | 20-1         | 1                        | A     | 13.5  | 20-1*                      | LIGHTING                       | 42             |  |
| 43                     | SPARE                          | 20-1         |                          | B     | 4.5   | 20-1*                      | EXTERIOR SOFFIT LIGHTING       | 44             |  |
| 45                     | SPARE                          | 20-1         |                          | A     |       | 20-1                       | SPARE                          | 46             |  |
| 47                     | SPARE                          | 20-1         |                          | B     |       | 20-1                       | SPARE                          | 48             |  |
| 49                     | SPARE                          | 20-1         |                          | A     | 100-3 |                            | FUTURE SHOP PANEL              | 50             |  |
| 51                     | SPARE                          | 20-1         |                          | B     |       | -                          | -                              | 52             |  |
| 53                     | SPARE                          | 20-1         |                          | A     |       | -                          | -                              | 54             |  |

## NOTES:

- A: PANEL SHALL BE EQUAL TO SQUARE D MODEL "QO"
- B: ELECTRICIAN SHALL VERIFY EXACT EQUIPMENT OVERCURRENT PROTECTION REQUIREMENTS PRIOR TO PURCHASE & INSTALLATION OF EQUIPMENT.
- C: AFTER COMPLETION OF WORK, ELECTRICIAN SHALL PROVIDE A TYPE WRITTEN PANEL DIRECTORY IN NEW PANEL.
- D: \* SHALL INDICATE AFCI PROTECTED BREAKER TO BE INSTALLED.
- E: PANEL SIZE HAS BEEN DETERMINED USING NEC SECTION 220 DEMAND CALCULATIONS. (CALCULATED 114A PER PHASE)



SANITARY SEWER PLAN SYMBOL LEGEND

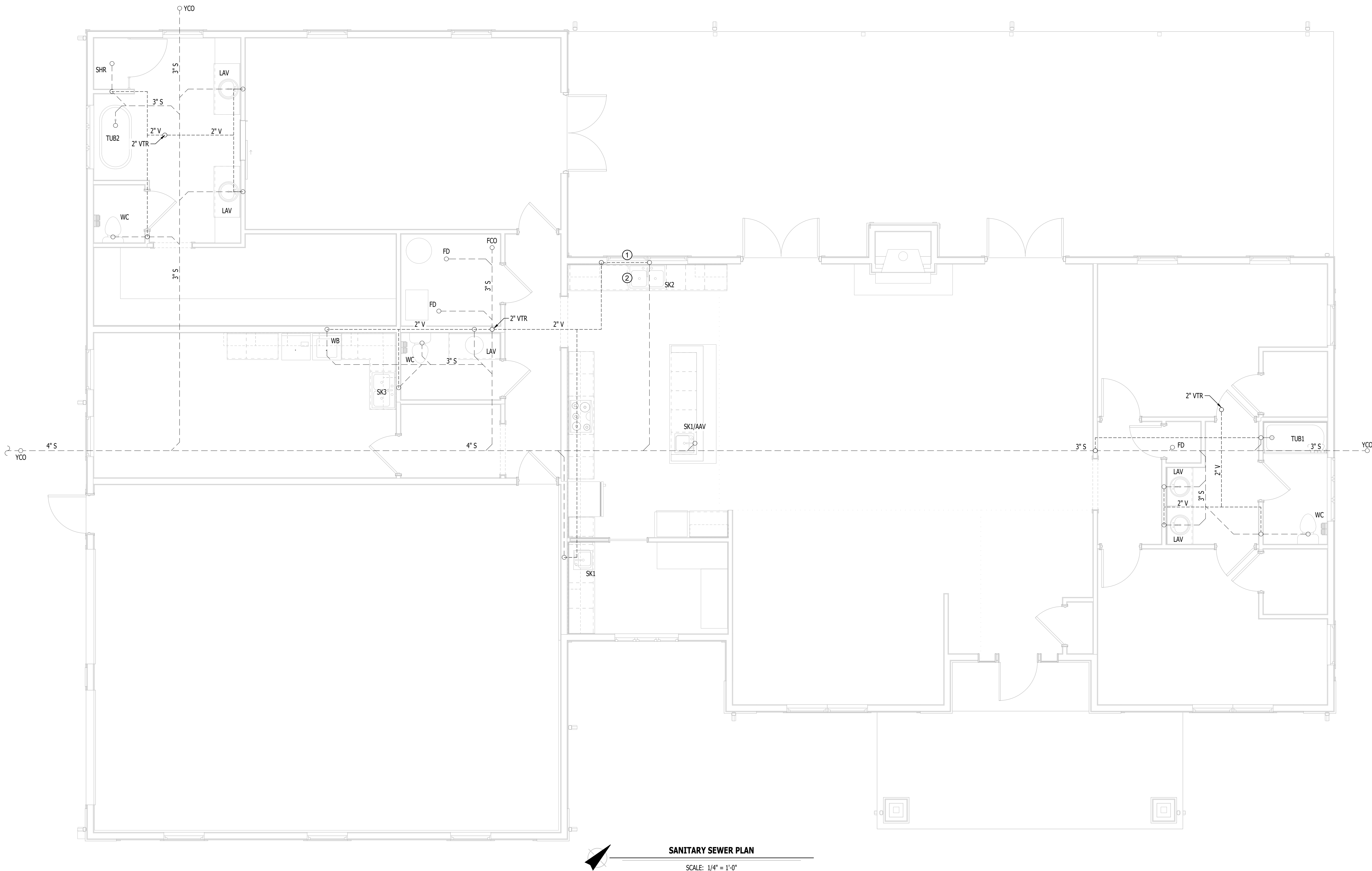
- SANITARY SEWER PIPING
- VENT PIPING
- PIPING TURNED DOWN / TURNED UP
- ✱ TIE INTO EXISTING

SANITARY SEWER PLAN GENERAL NOTES:

1. REFER TO P500 AND/OR P600 SERIES SHEETS FOR ADDITIONAL PLUMBING NOTES, DETAILS, REQUIREMENTS, AND SCHEDULES.
2. PLUMBING CONTRACTOR SHALL REVIEW ALL PROJECT DOCUMENTS AND COORDINATE LOCATION OF ALL EQUIPMENT, PIPING, HANGERS / SUPPORTS, ETC. WITH HVAC AND ELECTRICAL TRADES BEFORE INSTALLATION OF ANY MATERIAL. ADDITIONAL COSTS ASSOCIATED WITH LACK OF COORDINATION WILL NOT BE REIMBURSED.

SANITARY SEWER PLAN KEY NOTES:

- ① VENT PIPE IN WALL BELOW WINDOW.
- ② CONNECT DISHWASHER TO GARBAGE DISPOSAL.



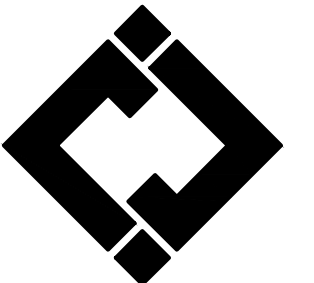
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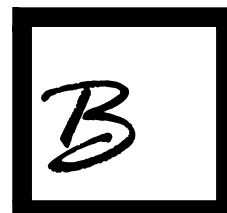


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Missouri Certificate of Authority  
#2000151304

OFFICE OF ADMINISTRATION  
DIVISION OF FACILITIES  
MANAGEMENT DESIGN AND  
CONSTRUCTION

DIRECTOR'S HOUSE

MISSOURI STATE  
FAIRGROUNDS  
2503 W. 16TH ST  
SEDALIA, MO 65301

PROJECT # F2402-01

SITE # 1501

ASSET # 3511501149

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_

ISSUE DATE: 7/11/2025

**BID DOCUMENTS**

CAD DWG FILE:  
DRAWN BY: RXM  
CHECKED BY: JAP  
DESIGNED BY: KEL

SHEET TITLE:

**SANITARY  
SEWER PLAN**

SHEET NUMBER:

**PS101**

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7/11/2025



WATER & GAS PLAN SYMBOL LEGEND

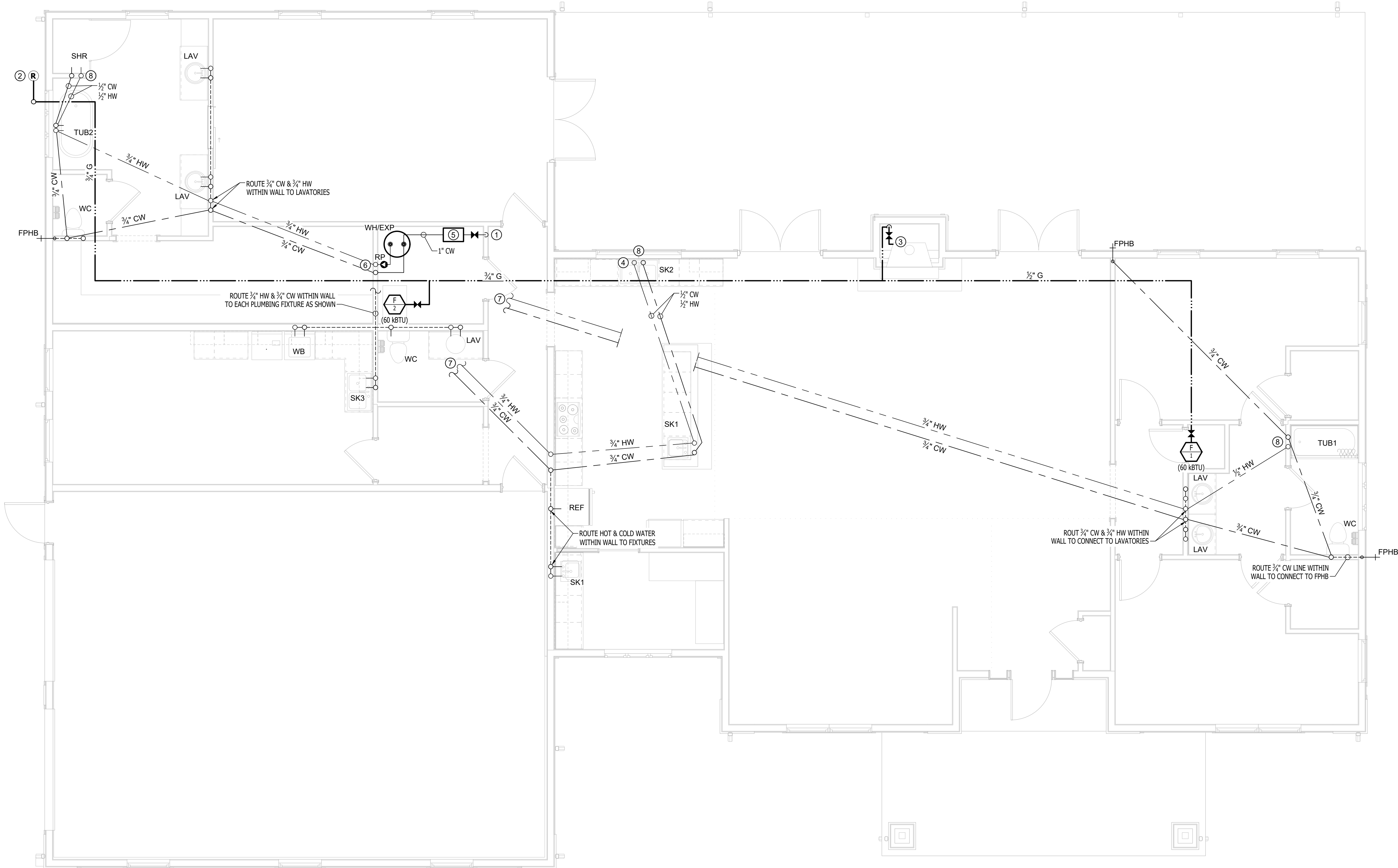
- — — COLD WATER LINE  
— — — HOT WATER LINE  
— — — HOT WATER RECIRCULATION LINE  
✕ VALVE  
○ PUMP  
— ○ — PIPING TURNED DOWN / TURNED UP  
✕ TIE INTO EXISTING

WATER & GAS PLAN GENERAL NOTES:

1. REFER TO P500 AND/OR P600 SERIES SHEETS FOR ADDITIONAL PLUMBING NOTES, DETAILS, REQUIREMENTS, AND SCHEDULES.
2. PLUMBING CONTRACTOR SHALL REVIEW ALL PROJECT DOCUMENTS AND COORDINATE LOCATION OF ALL EQUIPMENT, PIPING, HANGERS / SUPPORTS, ETC. WITH HVAC AND ELECTRICAL TRADES BEFORE INSTALLATION OF ANY MATERIAL. ADDITIONAL COSTS ASSOCIATED WITH LACK OF COORDINATION WILL NOT BE REIMBURSED.
3. ALL HOT, COLD & HOT WATER RECIRCULATION LINES SHALL BE INSTALLED UNDERGROUND UNLESS OTHERWISE NOTED.
4. ALL GAS PIPING LOCATED IN ATTIC UNLESS OTHERWISE NOTED.

WATER & GAS PLAN KEY NOTES:

- ① 1" WATER SERVICE UP FROM UNDER FLOOR WITH SHUT OFF VALVE ABOVE FLOOR. CONNECT TO WATER HEATER IN MECHANICAL ROOM & CONTINUE TO ROUTE UNDER FLOOR FOR DISTRIBUTION TO PLUMBING FIXTURES AS SHOWN.
- ② LP TANK REGULATOR. TOTAL CONNECTED GAS LOAD = 149,000 BTU.
- ③ GAS FIREPLACE. CONNECTED LOAD = 29,000 BTU.
- ④ CONNECT HOT WATER LINE TO DISH WASHER.
- ⑤ WATER SOFTENER BY OWNER.
- ⑥ HOT & COLD WATER BRANCH SHUT-OFF VALVES WITHIN MECHANICAL ROOM. SEE WATER SERVICE & WATER HEATER DETAIL FOR FURTHER INFORMATION.
- ⑦ INSTALL COMFORT VALVE AT THIS FIXTURE PER MANUFACTURERS SPECIFICATIONS.



WATER & GAS PLAN

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

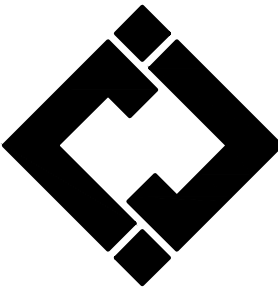
STATE OF MISSOURI  
MIKE KEHOE  
GOVERNOR



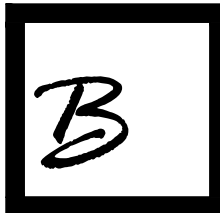
KEATON E. LERSINGER, PE, #2021035875  
NO CERTIFICATE OF AUTHORITY #2018029680



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DESIGNED BY: KEL

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WATER &  
GAS PLAN

SHEET NUMBER:

PW101





KEATON E. LISINGER, PE, 2021035875  
NO CERTIFICATE OF AUTHORITY # 2018029680



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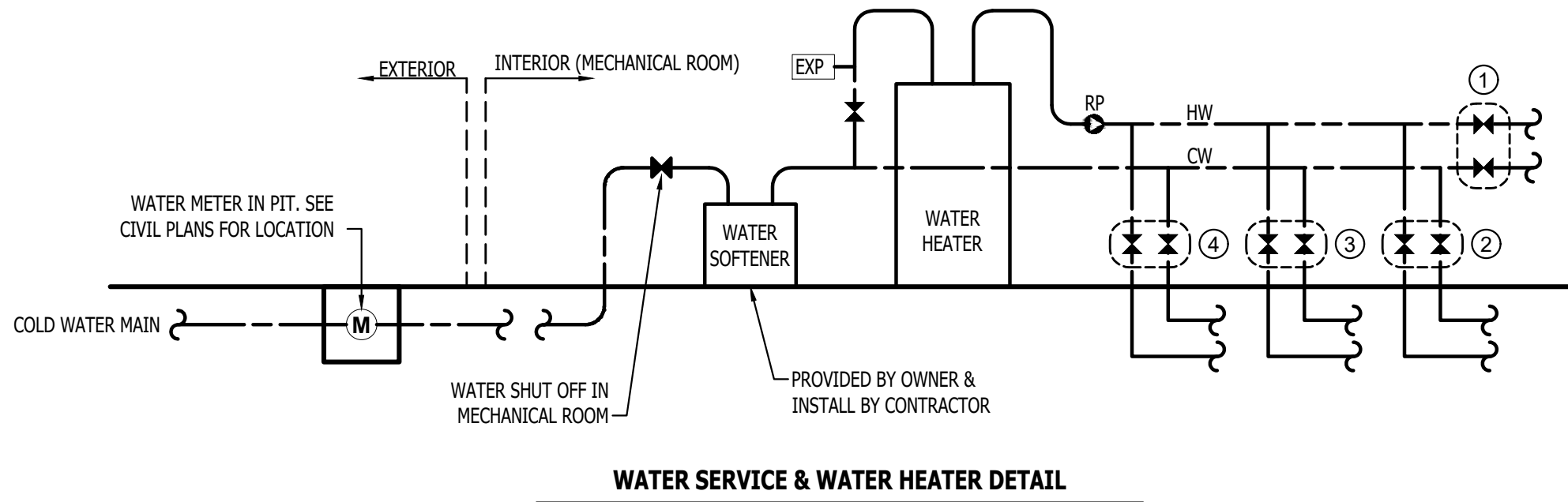
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**BID DOCUMENTS**  
CAD DWG FILE: \_\_\_\_\_  
DRAWN BY: RXM  
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SHEET TITLE:  
**PLUMBING  
DETAILS  
AND  
SCHEDULES**

SHEET NUMBER:  
**P501**  
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7/11/2025

WATER SERVICE & WATER HEATER KEY NOTES:

- ① HOT & COLD SHUT OFF VALVES TO LAUNDRY/OFFICE & W.C. PLUMBING FIXTURES.
- ② HOT & COLD WATER SHUT OFF VALVES TO MASTER BATHROOM PLUMBING FIXTURES.
- ③ HOT & COLD WATER SHUT OFF VALVES TO KITCHEN PLUMBING FIXTURES.
- ④ HOT & COLD WATER SHUT OFF VALVES TO SHARED BATHROOM PLUMBING FIXTURES.



| PLUMBING FIXTURE SCHEDULE                                                                                                                                       |                                              |                         |                  |                                                                                                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|-------------------------|------------------|-----------------------------------------------------------------------------------------------------------|
| TAG                                                                                                                                                             | DESCRIPTION                                  | MANUFACTURER (OR EQUAL) | MODEL (OR EQUAL) | NOTES                                                                                                     |
| AAV                                                                                                                                                             | AIR ADMITTANCE VALVE                         | OATEY                   | 39020            | 1.5" - 6 DFM MAX                                                                                          |
| EXP                                                                                                                                                             | EXPANSION TANK                               | WATTS                   | PLT-5            |                                                                                                           |
| FD                                                                                                                                                              | FLOOR DRAIN                                  | ZURN                    | Z415-BZ          | WITH Z1072 TRAP SEAL                                                                                      |
| FPHB                                                                                                                                                            | FROST PROOF HOSE BIB                         | WOODFORD                | MODEL 19         |                                                                                                           |
| LAV                                                                                                                                                             | LAVATORY (DROP-IN W/ MANUAL FAUCET)          | AMERICAN STANDARD       | 0475.028         | WITH MOEN #84537 FAUCET, 1/4 TURN STOPS, AND BRAIDED STAINLESS STEEL SUPPLIES                             |
| REF                                                                                                                                                             | REFRIGERATOR BOX                             | SILOUX CHIEF            | 696-G1000        |                                                                                                           |
| RP                                                                                                                                                              | RECIRCULATION PUMP                           | GRUNDFOS                | UP15-10 SU7P/TLC | WITH TIMER AND COMFORT VAVLES (PROVIDE 3 VALVES IN TOTAL, ONE FOR EACH HOT WATER BRANCH)                  |
| SHR                                                                                                                                                             | SHOWER                                       | AQUATIC                 | 14830SL-WH       | WITH MOEN #UT33322 SHOWER TRIM KIT AND SHOWER VAVLE. PROVIDE COMPATIBLE DOOR BY SHOWER SURROUND PROVIDER. |
| SK1                                                                                                                                                             | SINGLE COMPARTMENT SINK (22x19x7)            | ELKAY                   | LR2219           | WITH TWO HANDLED ZURN Z871C4-XL FAUCET                                                                    |
| SK2                                                                                                                                                             | DOUBLE COMPARTMENT SINK W/DISPOSAL (33x22x7) | ELKAY                   | CR3322           | WITH TWO HANDLED ZURN Z871C4-XL FAUCET AND INSINKERATOR BADGER 1 DISPOSAL WITH POWER CORD                 |
| SK3                                                                                                                                                             | DOUBLE COMPARTMENT SINK (33x22x7)            | ELKAY                   | CR3322           | WITH TWO HANDLED ZURN Z871C4-XL FAUCET                                                                    |
| TUB1                                                                                                                                                            | TUB & SHOWER                                 | AQUATIC                 | 2603302PL-WH     | WITH MOEN ESSIE #82330 TUB/SHOWER TRIM KIT AND POSI-TEMP SHOWER VALVE                                     |
| TUB2                                                                                                                                                            | TUB                                          | MISENO                  | MNO6732SFSO      | WITH MISENO #MNO15TFCP TUB FILLER FAUCET                                                                  |
| WB                                                                                                                                                              | WASHER BOX                                   | OATEY                   | 38529            | WASHER BOX W/ 1/4 TURN VALVES                                                                             |
| WC                                                                                                                                                              | WATER CLOSET - STANDARD HEIGHT - TANK        | AMERICAN STANDARD       | 215CA.004        | WITH CHURCH 7200SLEC SEAT AND COVER, STAINLESS BRAIDED SUPPLY, AND 1/4 TURN SHUT-OFF.                     |
| WH                                                                                                                                                              | WATER HEATER                                 | RUUD                    | PROE50 M2 RU95   | 50 GALLON, 240V, 4500W                                                                                    |
| YCO                                                                                                                                                             | YARD CLEAN OUT                               | ZURN                    | Z1400            |                                                                                                           |
| <b>NOTES:</b><br>1. VERIFY NECESSARY FIXTURES MEET ADA REQUIREMENTS WITH ARCHITECT PRIOR TO INSTALLATION.<br>2. VERIFY FIXTURE FINISHES WITH OWNER / ARCHITECT. |                                              |                         |                  |                                                                                                           |

| PLUMBING CONNECTION SIZING SCHEDULE                                               |                      |                  |                 |                       |                      |
|-----------------------------------------------------------------------------------|----------------------|------------------|-----------------|-----------------------|----------------------|
| FIXTURE                                                                           |                      | SANITARY PIPING  |                 | SUPPLY PIPING         |                      |
| TYPE                                                                              | TYPICAL ABBREVIATION | WASTE CONNECTION | VENT CONNECTION | COLD WATER CONNECTION | HOT WATER CONNECTION |
| DRINKING FOUNTAIN                                                                 | DF                   | 1-1/2"           | 1-1/4"          | 1/2"                  | -                    |
| FLOOR DRAIN                                                                       | FD                   | 3"               | 2"              | -                     | -                    |
| HAND / HAIR SINK                                                                  | HS / SK              | 2"               | 1-1/4"          | 1/2"                  | 1/2"                 |
| HOSE BIBB                                                                         | HB                   | -                | -               | 3/4"                  | -                    |
| LAVATORY                                                                          | LAV                  | 1-1/2"           | 1-1/4"          | 1/2"                  | 1/2"                 |
| MOP SINK                                                                          | MS                   | 3"               | 1-1/2"          | 1/2"                  | 1/2"                 |
| ICE MAKER OUTLET BOX                                                              | REF                  | -                | -               | 1/2"                  | -                    |
| SHOWER                                                                            | SH                   | 3"               | 1-1/2"          | 1/2"                  | 1/2"                 |
| URINAL                                                                            | UR                   | 2"               | 1-1/4"          | 3/4"                  | -                    |
| WATER CLOSET (FLUSH TANK)                                                         | WC                   | 3"               | 2"              | 1/2"                  | -                    |
| WATER CLOSET (FLUSH VALVE)                                                        | WC                   | 3"               | 2"              | 1"                    | -                    |
| <b>NOTES:</b><br>1. SIZES SHOWN ABOVE ARE TYPICAL UNLESS NOTED OTHERWISE ON PLANS |                      |                  |                 |                       |                      |

