

Lembke-Mellul Residence

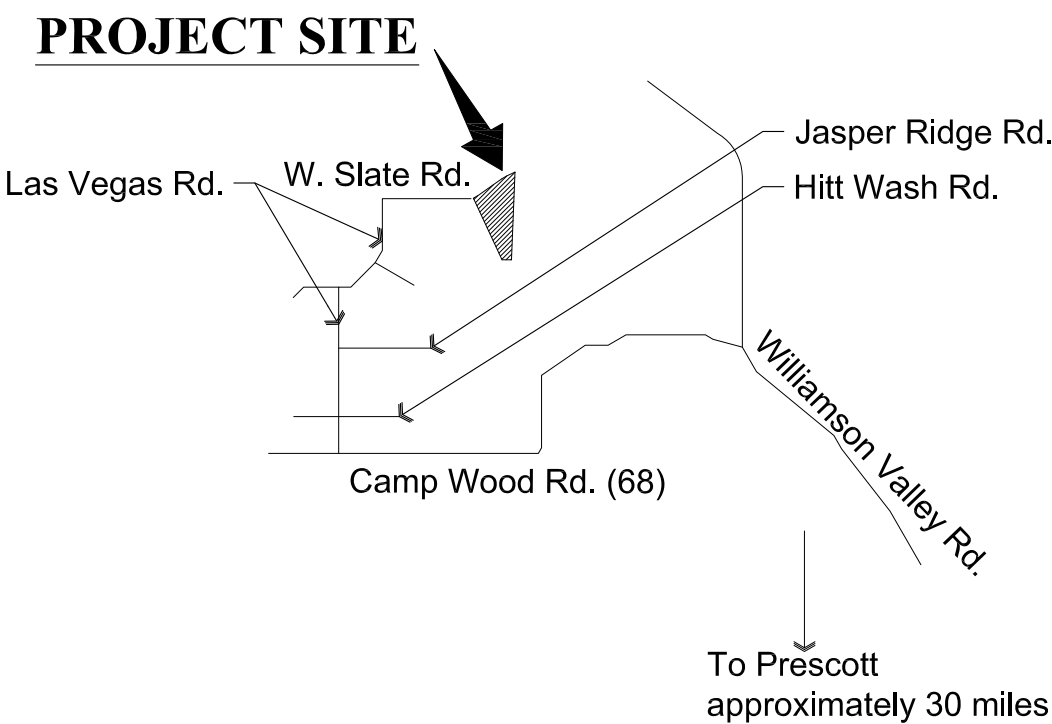
Las Vegas Ranch, Yavapai County, Arizona

Deferred Submittals

The following item is required and will be provided as a deferred submittal:

1. Fire Sprinkler System.
Automatic Fire Sprinkler System submittal documents for deferred submittal shall be submitted to the local fire district, who shall review them and forward them to the building official, with a notation indicating that the deferred submittal documents have been reviewed and that they have been found to be in general conformance with the design of the building. The deferred submittal items shall "NOT" be installed until their design and submittal documents have been approved by the fire marshal having jurisdiction.

Vicinity Map



Project Information

CLIENT:	Leslie & Bob Lembke, Lani Mellul 7214 N. Valley Vista Rd. Prescott Valley, AZ 86315	PH: 219-929-6908 CONTACT: Bob Lembke
PREPARED BY:	W. Alan Kenson & Assoc., P.C. P.O. Box 11593 Prescott, AZ 86304	PH: 928-443-5812 CONTACT: Alan Kenson WAKA@cableone.net
JOBSITE ADDRESS:	12255 Slate Road, Las Vegas Ranch Prescott, AZ	
PARCEL NUMBER:	300-37-129	
ZONING:	Residential Rural	
SITE USE:	Residential	
OCCUPANCY:	Residential Group R	
CONST. TYPE:	VB	
CURRENT CODE:	2012 International Residential Code 2012 International Fire Code 2012 International Plumbing Code 2012 International Mechanical Code 2012 International Fuel Gas Code 2012 International Electrical Code 2006 International Energy Conservation Code	
AREA SUMMARY:	Livable: 5,005 S.F. Garages: 1,542 S.F. Covered Patios: 2,354 S.F. Total under roof: 8,901 S.F.	

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	DOOR TYPE DESIGNATOR
	WINDOW TYPE DESIGNATOR
	WALL TYPE DESIGNATOR

Architect:

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ARCHITECTURE & PLANNING



REVISIONS	BY

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ARCHITECTURE & PLANNING

DRAWING: COVER SHEET

PROJECT: Lembke-Mellul Residence
12255 Slate Rd.
Prescott, AZ 86305

DRAWN BY L.O.
CHECKED BY W.A.K.
DATE JANUARY 27, 2016
SCALE AS NOTED
JOB NO. 674
SHEET CS1

Lembke-Mellul Residence

Las Vegas Ranch, Yavapai County, Arizona

General Notes

1. A COPY OF THE YAVAPAI COUNTY APPROVED CONSTRUCTION DRAWINGS SHALL BE KEPT AT THE JOB SITE.

2. EXTERIOR WALLS: CONSTRUCTION, PROJECTIONS, OPENINGS AND PENETRATIONS OF EXTERIOR WALLS OF DWELLINGS AND ACCESSORY BUILDINGS SHALL COMPLY WITH IRC 2012 TABLE 302.1.

3. CEMENT, FIBER-CEMENT AND GLASS MAT GYPSUM BACKERS SHALL BE USED AS BACKERS FOR WALL TILE IN TUB AND SHOWER AREAS AND WALL PANELS IN SHOWER AREAS. SUCH WALL SURFACES SHALL EXTEND TO A HEIGHT OF NOT LESS THAN 6 FEET ABOVE THE FLOOR.

4. EVERY SLEEPING ROOM AND BASEMENT WITH HABITABLE SPACE SHALL HAVE AT LEAST ONE WINDOW WITH A NET CLEAR OPENING OF 5.7 SQUARE FEET (MIN. 5 SQUARE FEET NET CLEAR OPENING AT GRADE FLOOR), MINIMUM OPENING WIDTH OF 20" MINIMUM OPENING HEIGHT OF 24" AND THE FINISHED SILL HEIGHT SHALL NOT BE MORE THAN 44" ABOVE THE FLOOR, OR PROVIDE EXTERIOR DOOR FOR EMERGENCY EGRESS.

5. WINDOWS SHALL BE FLASHED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

6. GLAZING IN HAZARDOUS LOCATIONS SHALL COMPLY WITH IRC 308.

7. ALL INTERIOR AND EXTERIOR GLAZING IN BATHROOMS MUST BE SAFETY GLAZING WHEN THE BOTTOM EDGE IS LESS THAN FIFTY-SIX INCHES ABOVE THE FLOOR LEVEL. (BATHROOM SHALL BE DEFINED AS A ROOM PROVIDED WITH A TUB OR SHOWER.)

8. CEILING INSULATION: 7" RIGID INSULATION BELOW TPO SINGLE PLY ROOFING MEMBRANE WITH 1" SPRAY FOAM INSULATION AT TOP OF ROOF TRUSSES.

9. WOOD FRAMED WALLS: INSULATION SHALL BE IN SUBSTANTIAL CONTACT WITH THE SURFACE BEING INSULATED TO AVOID AIR PATHS THAT BYPASS THE INSULATION. INSULATION SHALL NOT BE COMPRESSED BY THE INSET STAPLING OF BATT INSULATION OR OTHER MEANS. INSULATION SHALL FILL CAVITIES COMPLETELY BY CUTTING INSULATION AROUND ELECTRICAL OUTLETS AND SWITCHES, AND BY SLICING INSULATION TO FIT BEHIND AND IN FRONT OF ELECTRICAL WIRING IN THE CAVITY AND PLUMBING PIPE. BAND JOISTS AND OTHER INTERSTITIAL FLOOR ELEMENTS OF THE WALL SHALL BE INSULATED.
10. AIR LEAKAGE - THE CODE ALLOWS THE USE OF AIRFLOW RETARDERS (HOUSE WRAPS) OR OTHER SOLID MATERIALS AS ACCEPTABLE METHODS TO MEET THIS REQUIREMENT. TO BE EFFECTIVE, THE BUILDING THERMAL SEAL MUST BE:
 - IMPERMEABLE TO AIR FLOW.
 - CONTINUOUS OVER THE ENTIRE BUILDING ENVELOPE.
 - ABLE TO WITHSTAND THE FORCES THAT MAY ACT ON IT DURING AND AFTER CONSTRUCTION.
 - DURABLE OVER THE EXPECTED LIFETIME OF THE BUILDING.
 - ALL SEAMS AND EDGES MUST BE SEALED/TAPED PER MANUFACTURER'S SPECIFICATIONS.

11. BUILDING THERMAL ENVELOPE - THE SEALING METHODS BETWEEN DISSIMILAR MATERIALS SHALL ALLOW FOR DIFFERENTIAL EXPANSION AND CONTRACTION. THE FOLLOWING SHALL BE CAULKED, GASKETED, WEATHER-STRIPPED OR OTHERWISE SEALED WITH AN AIR BARRIER MATERIAL, SUITABLE FILM OR SOLID MATERIAL:
 - ALL JOINTS, SEAMS AND PENETRATIONS.
 - SITE BUILT WINDOWS, DOORS AND SKYLIGHTS.
 - OPENINGS BETWEEN WINDOW AND DOOR ASSEMBLIES AND THEIR RESPECTIVE JAMBS AND FRAMING.
 - UTILITY PENETRATIONS.
 - DROPPED CEILINGS OR CHASES ADJACENT TO THE THERMAL ENVELOPE.
 - KNEE WALLS.
 - WALLS AND CEILINGS SEPARATING A GARAGE FROM CONDITIONED SPACES.
 - BEHIND TUBS AND SHOWERS ON EXTERIOR WALLS.
 - COMMON WALLS BETWEEN DWELLING UNITS.
 - OTHER SOURCES OF INFILTRATION.

12. FENESTRATION AIR LEAKAGE - WINDOW, SKYLIGHT AND SLIDING GLASS DOORS SHALL HAVE AN AIR INFILTRATION RATE OF NO MORE THAN 0.3 CFM PER SQUARE FOOT, AND SWINGING DOORS NO MORE THAN 0.5 CFM. SPECIFICATION SHALL BE LISTED ON THE MANUFACTURER LABEL. ALL WINDOWS AND EXTERIOR DOORS COMPRISING THE BUILDINGS THERMAL ENVELOPE, SHALL HAVE A FENESTRATION U-FACTOR OF NOT MORE THAN .40.
13. RECESSED LIGHTING - RECESSED LUMINAIRES INSTALLED IN THE BUILDING THERMAL ENVELOPE SHALL BE SEALED TO LIMIT AIR LEAKAGE BETWEEN CONDITIONED AND UNCONDITIONED SPACES BY BEING:
 - IC-RATED AND LABELED WITH ENCLOSURES THAT ARE SEALED OR GASKETED TO PREVENT AIR LEAKAGE TO THE CEILING CAVITY OR UNCONDITIONED SPACE
 - OR:
 - IC-RATED AND LABELED AS MEETING ASTM E283
 - OR:
 - LOCATED INSIDE AIRTIGHT SEALED BOX WITH CLEARANCES OF AT LEAST 0.5 INCH FROM COMBUSTIBLE MATERIAL AND 3 INCHES FROM INSULATION.

14. A SHUTOFF VALVE BETWEEN THE PROPANE TANK AND THE HOUSE IS REQUIRED.

15. ALL CIRCULATING SERVICE HOT WATER PIPING SHALL BE INSULATED TO AT LEAST R-2. ALL NEW RESIDENCES EXCEEDING 1,800 SQUARE FEET WITH TWO OR MORE BATHROOMS SHALL HAVE A CIRCULATING HOT WATER SYSTEM. CIRCULATING HOT WATER SYSTEMS SHALL INCLUDE AN AUTOMATIC OR READILY ACCESSIBLE MANUAL SWITCH THAT CAN TURN OFF THE HOT WATER CIRCULATING PUMP WHEN THE SYSTEM IS NOT IN USE. THERMAL SIPHONING SYSTEMS SHALL HAVE A VALVE TO REDUCE FLOW. ALTERNATE SYSTEM SHALL BE CONSIDERED.

16. A MINIMUM 0.019 INCH, CORROSION RESISTANT WEEP SCREED, WITH MINIMUM VERTICAL ATTACHMENT FLANGE OF 3-1/2 INCHES SHALL BE PROVIDED AT OR BELOW THE FOUNDATION PLATE LINE ON THE EXTERIOR STUD WALL IN ACCORDANCE WITH ASTM C 926. THE WEEP SCREED SHALL BE PLACED A MINIMUM OF 4 INCHES ABOVE THE EARTH OR 2 INCHES ABOVE PAVED AREAS AND SHALL BE OF A TYPE THAT WILL ALLOW TRAPPED WATER TO DRAIN TO THE EXTERIOR OF THE BUILDING. THE WEATHER RESISTANT BARRIER SHALL LAP THE ATTACHMENT FLANGE. THE EXTERIOR LATH SHALL COVER AND TERMINATE ON THE ATTACHMENT FLANGE OF THE WEEP SCREED.

17. THE GARAGE SHALL BE SEPARATED FROM THE RESIDENCE AND ITS ATTIC AREA BY NOT LESS THAT 1/2" GPDW APPLIED TO THE GARAGE SIDE.

18. A WATER HEATER RELIEF VALVE SHALL EXTEND OUTSIDE THE BUILDING WITH THE END OF PIPE NOT MORE THAN (2) TWO FEET OR LESS THAN (6) SIX INCHES ABOVE THE GROUND AND POINTING DOWNWARD.

19. MECHANICAL SYSTEM PIPING CAPABLE OF CARRYING FLUIDS ABOVE 105 F OR BELOW 55 F SHALL BE INSULATED TO A MINIMUM OF R-2.

REVISIONS	BY

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ARCHITECTURE & PLANNING

W.A.K.A.

REGISTERED

DRAWING: GENERAL NOTES

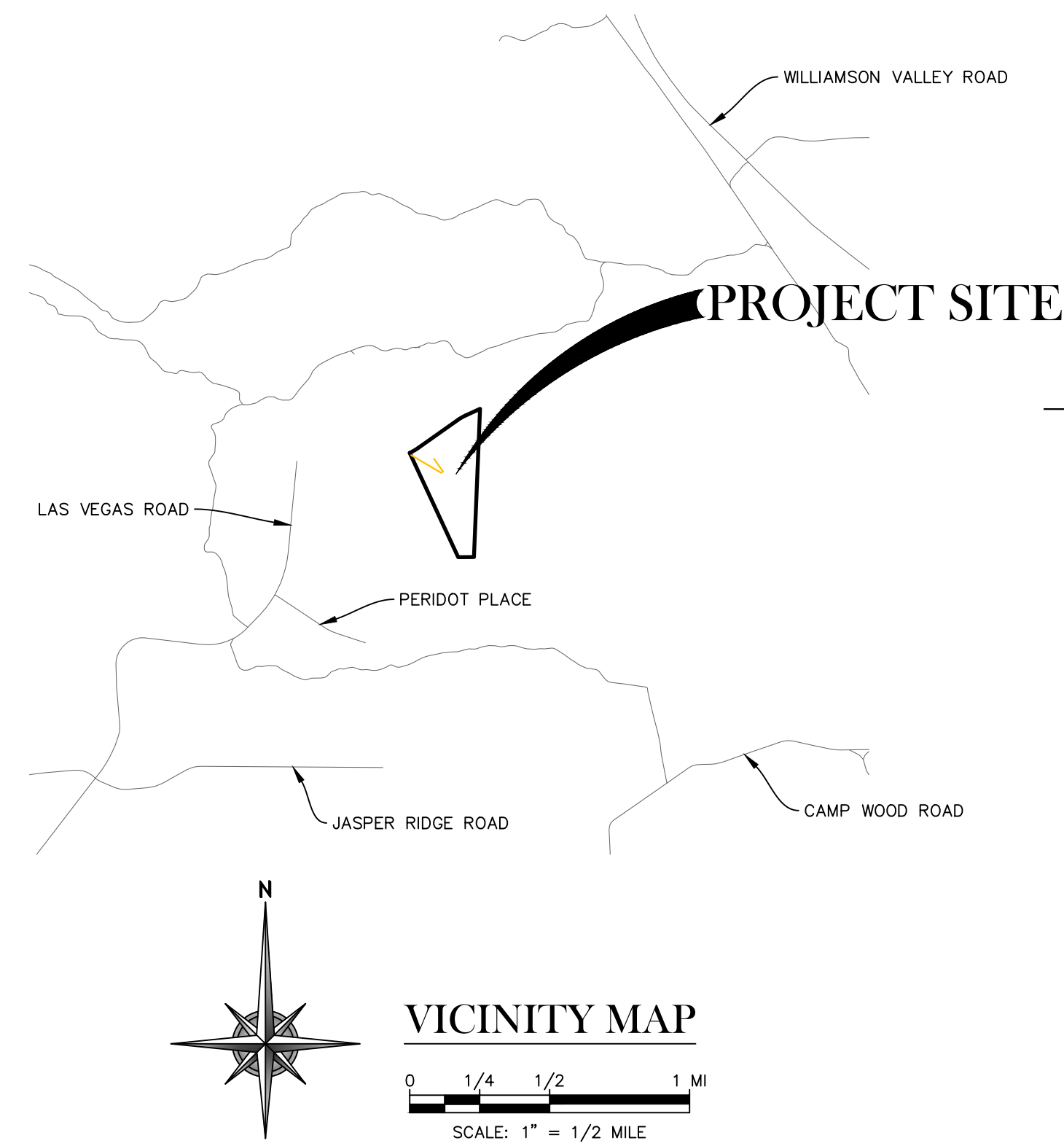
PROJECT: Lembke-Mellul Residence
12255 State Rd.
Prescott, AZ 86305

DRAWN BY L.O.
CHECKED BY W.A.K.
DATE JANUARY 27, 2016
SCALE AS NOTED
JOB NO. 674
SHEET

CS2

LEMBKE-MELLUL RESIDENCE GRADING & DRAINAGE PLAN

APN: 300-37-129, PARCEL 104 OF LAS VEGAS RANCH ESTATES,
LOCATED IN SECTION 21, TOWNSHIP 17 NORTH, RANGE 4 WEST
GILA AND SALT RIVER MERIDIAN, YAVAPAI COUNTY, ARIZONA



LEGEND

	SUBJECT PROPERTY LINE
	ADJACENT PROPERTY LINE
	EASEMENT
	BUILDING SETBACK
	EXISTING INDEX CONTOUR
	EXISTING INTERMEDIATE CONTOUR
	EXISTING EDGE OF DIRT ROAD
	PROPOSED DRAINAGE FLOWLINE
	PROPOSED ELEVATION CONTOUR
	PROPOSED ELECTRIC SERVICE LINE
	PROPOSED TELEPHONE SERVICE LINE
	PROPOSED GAS SERVICE LINE
	PROPOSED SEWER SERVICE LINE
	PROPOSED WATER SERVICE LINE
	CALCULATED POINT
	PROPOSED FLOW PATTERNS
	PROPOSED STACKED ROCK HEADWALL
	PROPOSED HARDSCAPE
	PROPOSED HDPE DRAIN PIPE

ESTIMATED EARTHWORK:

RAW CUT = 3500 C.Y.
RAW FILL = 3000 C.Y.

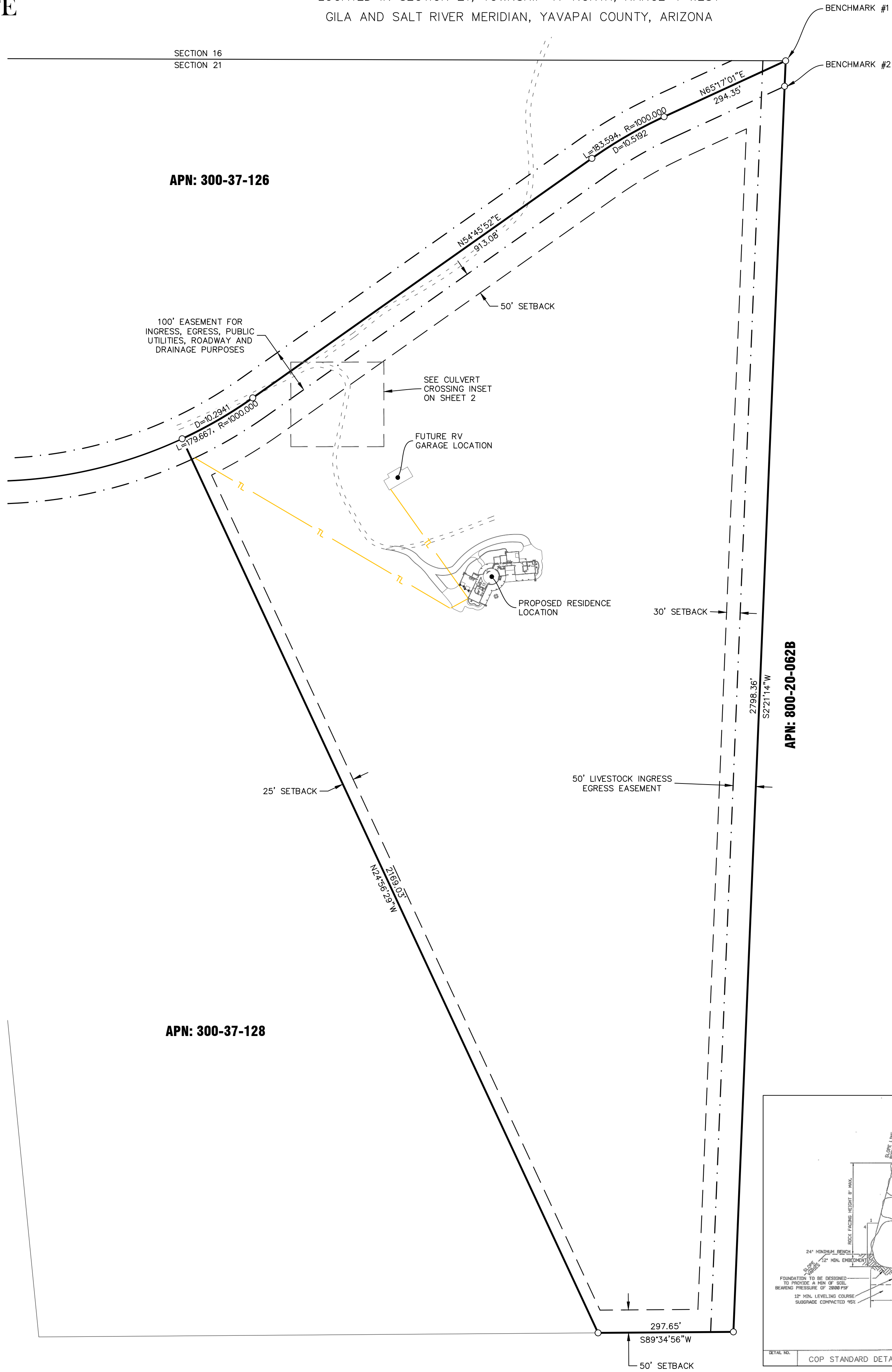
NOTES FOR EARTHWORK ASSUMPTIONS:

- 8" OVER-EXCAVATION FOR DRIVEWAY SECTION.
- 8" OVER-EXCAVATION FOR FOR SLAB ON GRADE.
- NO OVER-EXCAVATION INCLUDED FOR UNDERLYING SOILS.
- CONTRACTOR SHALL OBTAIN SEPARATE GRADING PERMIT FOR SURPLUS MATERIAL PLACED OFF-SITE IN CONFORMANCE WITH THE YAVAPAI COUNTY GRADING ORDINANCE.

BASIS OF BEARINGS & BENCHMARKS

THE BASIS OF BEARING FOR THIS PROJECT IS S2°21'14"W A DISTANCE OF 56.33 FEET ALONG THE EAST LINE OF THE SUBJECT PARCEL BETWEEN A 3" AL CAP MARKED RLS 12218 AND A REBAR MARKED RLS 16533 AT EASEMENT LINE

BENCHMARK POINT	NORTHING	EASTING	ELEVATION(88)
BENCHMARK #1	1401743.73	470409.63	4767.86
BENCHMARK #2	1401687.57	470407.51	4765.15



GENERAL

ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH YAVAPAI COUNTY DESIGN GUIDELINES., YAVAPAI COUNTY ENGINEERING STANDARDS AND SPECIFICATIONS, "MARICOPA ASSOCIATION OF GOVERNMENTS UNIFORM STANDARD" (MAG SPECS), "MARICOPA ASSOCIATION OF GOVERNMENTS UNIFORM STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION" (MAG DETAILS), "YAVAPAI COUNTY ASSOCIATION OF GOVERNMENTS UNIFORM STANDARD AND DETAILS" (YAG SPECS & DETAILS), AND GENERALLY ACCEPTED GOOD CONSTRUCTION PRACTICES.

ALL IMPROVEMENTS SHALL BE CONSTRUCTED BY CONTRACTORS LICENSED BY THE ARIZONA STATE REGISTRAR OF CONTRACTORS, WITH A CLASS OF LICENSE(S) FOR THE SPECIFIC WORK BEING PERFORMED.

WORK PERFORMED WITHOUT APPROVAL OF THE COUNTY ENGINEER OR OWNER AND/OR ALL WORK AND MATERIALS NOT IN CONFORMANCE WITH THE SPECIFICATIONS IS SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE

ANY DEFECTS WHICH APPEAR IN THE WORK WITHIN TWO YEARS FROM THE DATE OF ACCEPTANCE AND WHICH ARE DUE TO IMPROPER WORKMANSHIP OR INFERIOR MATERIALS SUPPLIED SHALL BE CORRECTED BY OR AT THE EXPENSE OF THE CONTRACTOR.

QUANTITIES OF CONSTRUCTION MATERIALS ARE PROVIDED AS A GUIDE AND FOR INFORMATION ONLY. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING AND PROVIDING ALL QUANTITIES REQUIRED.

CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTIONS METHODS, SEQUENCING, AND SAFETY DURING CONSTRUCTION.

CONTRACTOR IS REQUIRED TO COMPLY WITH ALL LOCAL, STATE, AND FEDERAL LAWS AND REGULATIONS APPLICABLE TO THE CONSTRUCTION OF THIS PROJECT.

APPROVAL OF A PORTION OF THE WORK IN PROGRESS DOES NOT GUARANTEE ITS FINAL ACCEPTANCE. TESTING AND EVALUATION MAY CONTINUE UNTIL WRITTEN FINAL ACCEPTANCE OF A COMPLETE WORKABLE UNIT. ACCEPTANCE OF COMPLETED IMPROVEMENTS WILL NOT BE GIVEN UNTIL DEFECTIVE OR UNAUTHORIZED WORK IS REMOVED AND FINAL CLEAN-UP IS COMPLETE.

THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND COMPLYING WITH ANY REQUIRED PERMITS NECESSARY FOR CONSTRUCTION.

YAVAPAI COUNTY REQUIRES THE ISSUANCE OF A GRADING PERMIT FOR ANY EXCAVATION OR GRADING (INCLUDING PLACEMENT OF FILL). A RIGHT-OF-WAY PERMIT IS REQUIRED PRIOR TO COMMENCING ANY WORK WITHIN ANY RIGHT-OF-WAY.

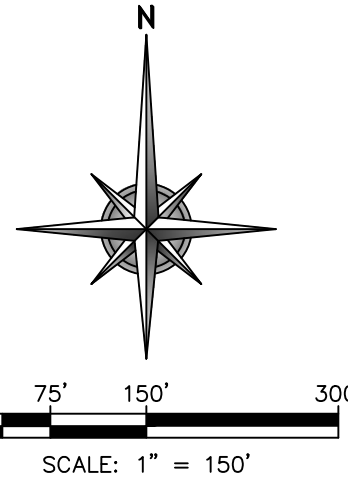
THESE PLANS ARE SUBJECT TO THE INTERPRETATION OF INTENT BY THE ENGINEER. ALL QUESTIONS REGARDING THESE PLANS SHALL BE DIRECTED TO THE ENGINEER. ANY INTERPRETATION OF THE PLANS BY ANYONE OTHER THAN THE ENGINEER SHALL BE RESPONSIBLE FOR ANY CONSEQUENCES THEREOF.

DRAINAGE

POSITIVE DRAINAGE OF SURFACE WATER AWAY FROM STRUCTURES SHALL BE PROVIDED DURING CONSTRUCTION AT ALL TIMES AND WITH FINAL GRADING OF LOT.

PONDING OF SURFACE WATER SHALL NOT BE PERMITTED DURING CONSTRUCTION OR BE PRESENT AFTER FINAL LOT GRADING.

ROOF DRAINS SHALL DISCHARGE A MINIMUM OF FIVE (5) FEET AWAY FROM BUILDING STRUCTURE.



SITE PLAN NOTES

- THIS MAP DOES NOT REPRESENT THE RESULTS OF A BOUNDARY SURVEY. NO BOUNDARY SURVEY WAS PERFORMED OR IS IMPLIED BY THIS MAP.
- PROPERTY BOUNDARY PER BOOK 184 OF MAPS AND PLATS, PAGE(S) 22, Y.C.R.O.
- ALL EASEMENTS OF RECORD MAY NOT BE PLOTTED HEREON.
- TOPOGRAPHIC SURVEY PROVIDED BY GRANITE BASIN ENGINEERING INC.
- CONTOUR INTERVAL = 1'

UTILITIES

THESE PLANS REPRESENT A REASONABLE EFFORT TO SHOW LOCATIONS OF EXISTING UNDERGROUND UTILITIES WITHIN THE PROJECT LIMITS. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO UTILITIES CAUSED DURING CONSTRUCTION. THE CONTRACTOR IS TO VERIFY THE LOCATION AND THE ELEVATIONS OF ALL EXISTING UTILITIES PRIOR TO ANY EXCAVATION OR CONSTRUCTION. SHOULD ANY LOCATION OR ELEVATION DIFFER FROM THAT SHOWN ON PLANS, THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE PROPER UTILITY OWNER'S AGENT.

LOCATION OF UNDERGROUND UTILITIES SHALL BE ACCOMPLISHED IN ACCORDANCE WITH ARS 40-360.22 PRIOR TO ANY EXCAVATION. CONTRACTOR PERFORMING EXCAVATING OPERATIONS IS RESPONSIBLE FOR LOCATING AND PROTECTING ALL UNDERGROUND UTILITIES. BLUE STAKE SHALL BE CALLED AT 1-800-STAKE-IT FOR ACCURATE LOCATION OF UTILITIES AS NECESSARY AND PRIOR TO ANY EXCAVATION.

LOCATION OF ALL WATER VALVES MUST BE REFERENCED AT ALL TIMES DURING CONSTRUCTION AND MADE AVAILABLE TO THE WATER COMPANY. ONLY WATER COMPANY EMPLOYEES ARE AUTHORIZED TO OPERATE THE WATER VALVES AND FIRE HYDRANT CONNECTIONS TO THE COMPANY'S WATER SYSTEM.

RELOCATIONS

SIGNS, TREES SHRUBS, MAILBOXES AND OTHER INCIDENTALS REQUIRING RELOCATION SHALL BE MOVED ONLY FAR ENOUGH TO ALLOW CONSTRUCTION OF THE PROJECT AND CAUSE THE LEAST DISRUPTION TO PRIVATE PROPERTY. AND LANDSCAPE. FINAL POSITIONS SHALL BE APPROVED BY THE ENGINEER PRIOR TO RELOCATION. ALL RELOCATED ITEMS SHALL CONTINUE TO WORK IN THEIR INTENDED CAPACITY AFTER THE RELOCATION HAS BEEN ACCOMPLISHED. NO SIGNS SHALL BE RELOCATED TO POSITIONS OUTSIDE DESIGNATED RIGHTS-OF-WAY. SAFETY SHALL BE A PRIMARY CONSIDERATION IN THE PLACEMENT OF SHRUBBERY AND SIGNS WHICH COULD POSSIBLY DISRUPT THE SIGHT DISTANCE OF MOTORISTS.

GRADING

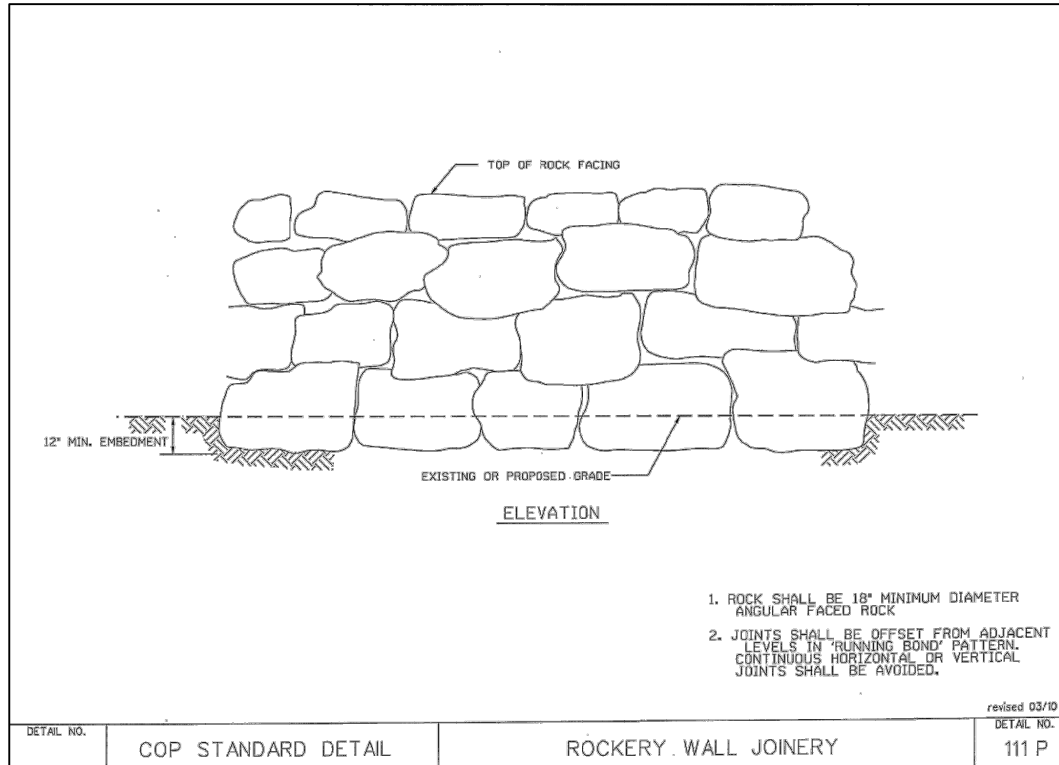
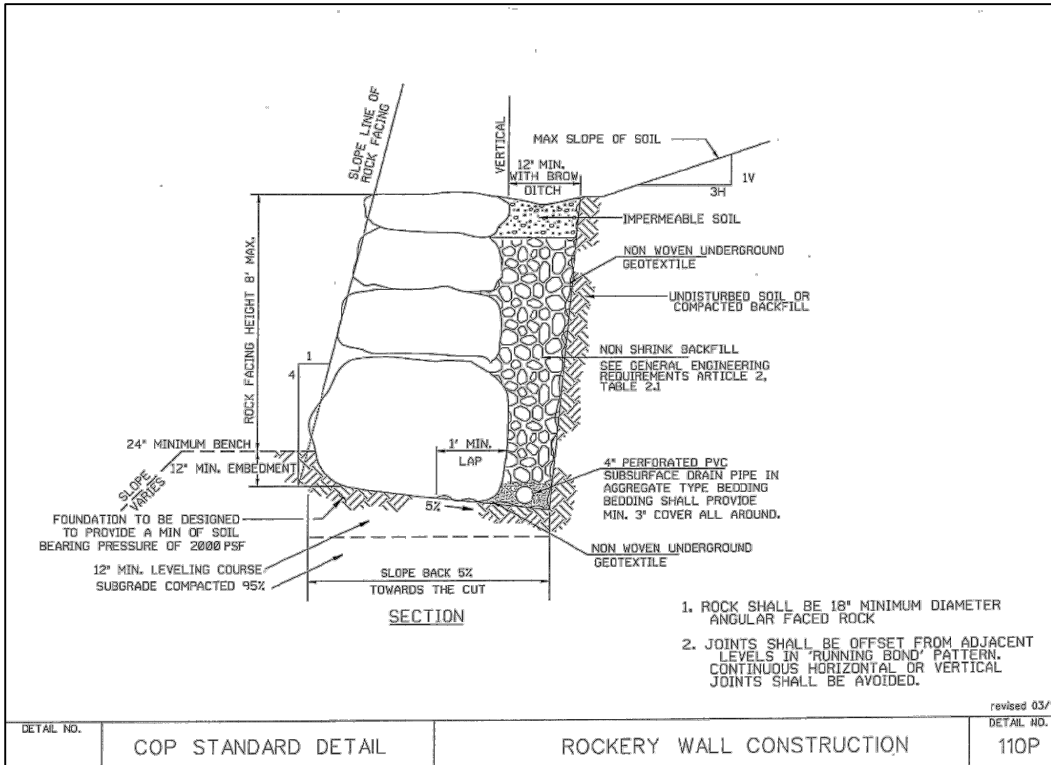
TESTING:

- TESTING OF MATERIALS AND CONSTRUCTION PERFORMANCE BY AN APPROVED TESTING LAB IS REQUIRED.
- THE GEOTECHNICAL LAB SHALL DETERMINE THE NUMBER AND TYPE OF TESTS NEEDED.
- THE CONTRACTOR/DEVELOPER WILL NOTIFY THE TESTING LAB OF THE NEEDED TESTS. COORDINATE WITH THE INSPECTOR AND TESTING LAB AND PAY THE COSTS TO PERFORM THE TESTS.

THE MAXIMUM SLOPE FOR CUT SECTIONS IS 2:1 AND FOR FILL SECTIONS IS 2:1, HORIZONTAL TO VERTICAL.

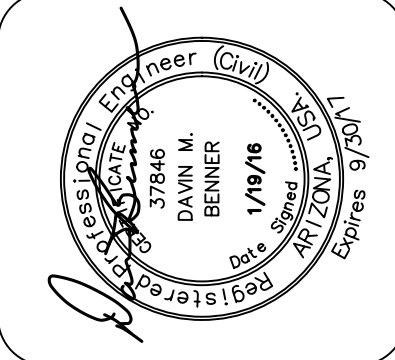
MAXIMUM LIFT THICKNESSES IN FILL SECTIONS IS NOT TO EXCEED 6". ALL FILL IS TO BE COMPACTED TO 95% COMPACTION.

THE CONTRACTOR SHALL VERIFY THE LOCATION, ELEVATION AND GENERAL CONDITION OF ALL EXISTING TIE-IN AND MATCHING POINTS OF PAVEMENT PRIOR TO ANY STREET CONSTRUCTION. SHOULD ANY LOCATIONS, ELEVATIONS, CROSS SLOPES, OR CONDITIONS DIFFER FROM WHAT IS SHOWN ON THE PLANS, THE CONTRACTOR SHALL CONTACT THE OWNERS AGENT IMMEDIATELY FOR APPROPRIATE CORRECTIVE ACTION. THE CONTRACTOR IS RESPONSIBLE FOR ANY COSTS INCURRED IF THIS PROCEDURE IS NOT FOLLOWED.



REVISIONS	BY

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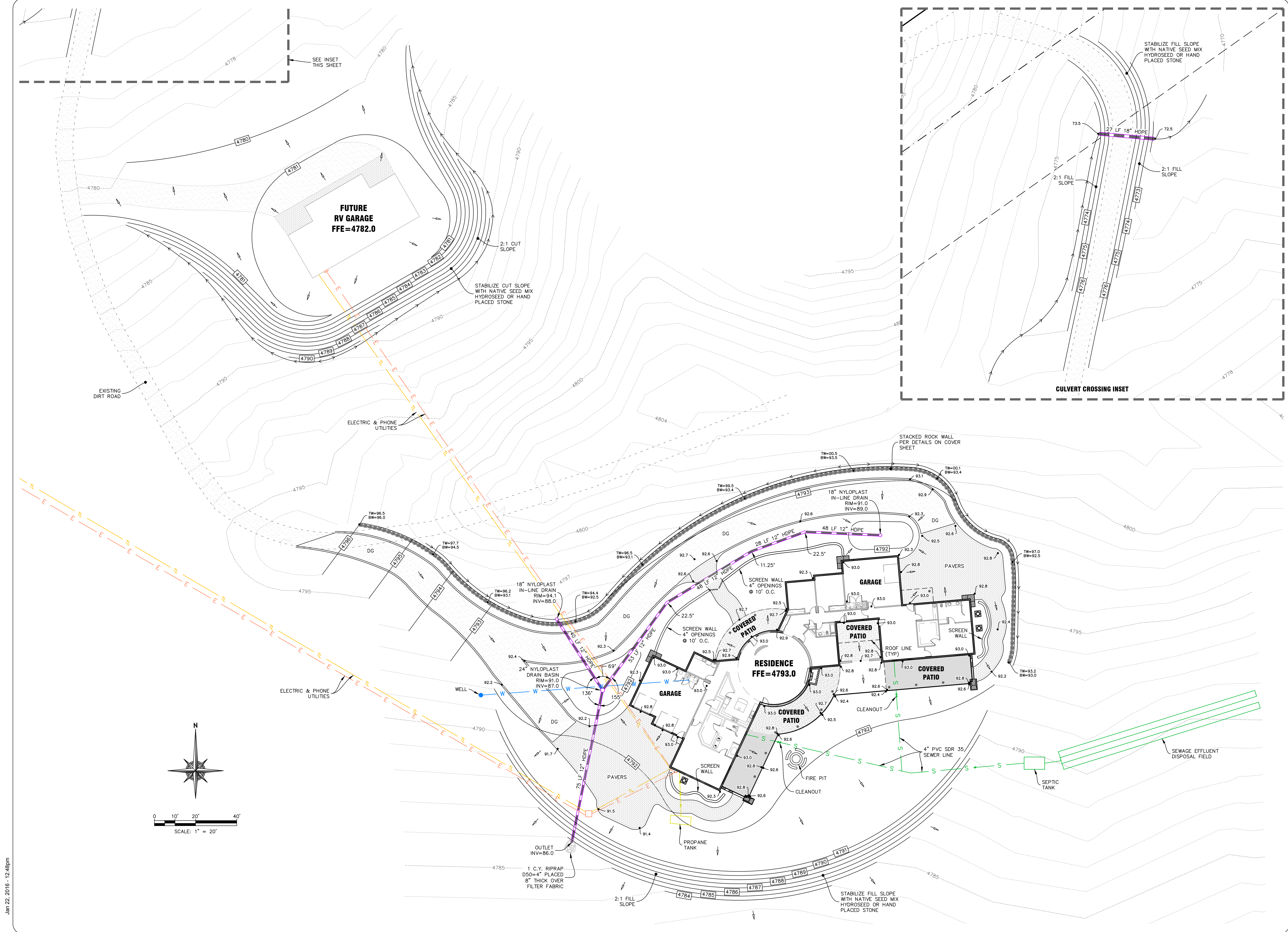
ARCHITECTURE & PLANNING

DRAWING: GRADING AND DRAINAGE PLAN

PROJECT: Lembke-Mellul Residence

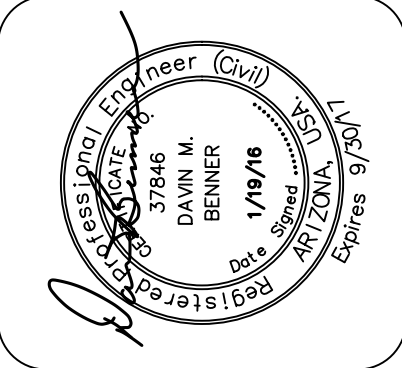
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C1



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ARCHITECTURE & PLANNING

DRAWING: GRADING AND DRAINAGE PLAN

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DRAWN BY	TJL
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C2

Jan 29, 2016 - 8:29am

Legend

TYPICALLY INDICATES PROPOSED RESIDENCE

TYPICALLY INDICATES PROPOSED PAVERS

TYPICALLY INDICATES PROPOSED REVEGETATED AREA

TYPICALLY INDICATES AREA TO BE LEFT UNDISTURBED

AL

Landscape Plan

Scale: 1"=20'-0"



Descriptive Keynotes

1. AREA TO BE LEFT UNDISTURBED, TO PROPERTY LINE.
2. AREA TO BE REVEGETATED USING HYDROSEEDING WITH NATIVE GRASSES.
3. CONCRETE PATIO PAVERS.
4. CONCRETE SLAB.
5. ROCKERY RETAINING WALL. REFER TO CIVIL PLANS.
6. CMU WALL WITH STONE VENEER. HEIGHT VARIES FROM 3'-0" TO 4'-0"
7. CONDENSING UNIT. REFER TO MECHANICAL PLANS.
8. CMU SCREENING WALL WITH STONE VENEER.
9. STABILIZED DECOMPOSED GRANITE DRIVEWAY.
10. DRIP IRRIGATION CONTROLLER.
11. 5' TALL CUSTOM DESIGNED GATE.
12. 6' TALL FENCE COLUMNS.
13. PROPOSED 5005 S.F. RESIDENCE.
14. COVERED PATIO WITH RECESSED CAN LIGHTING.
15. SHIELDED LIGHT WITH MOTION SENSOR.
16. PROPOSED WORKSHOP ON SEPARATE PERMIT.
17. EXISTING DIRT DRIVEWAY TO BE ABANDONED.
18. FLAGSTONE PAVERS.
19. FIRE PIT.
20. DRIP IRRIGATION SYSTEM BACKFLOW PREVENTOR.
21. DRAIN BASIN INLET. REFER TO CIVIL PLANS.
22. FUTURE LANDSCAPE AREA. NOT INCLUDED IN PLANT QUANTITY.
23. PROVIDE RIP RAP AT DRAINAGE OUTLET. REFER TO CIVIL PLANS.

Plant Schedule

SYMBOL	SIZE	QUANTITY	NAME
	5 GAL	32	MEXICAN ORANGE
	1 GAL	13	EVERGREEN SUMAC
	1 GAL	7	BUTTERFLY WEED
	1 GAL	11	DESERT SUMAC
	1 GAL	12	BROOM DALEA
	2'-3'	17	BOULDER CLUSTER
	5 GAL	6	DESERT SPOON
	15 GAL	7	ARIZONA ASH
	15 GAL	8	ASPEN
	15 GAL	2	WESTERN SOAPBERRY
	15 GAL	2	HACKBERRY
	5 GAL	10	MANZANITA

- NOTES:
1. LANDSCAPE PLANTINGS SHALL BE WATERED VIA DRIP IRRIGATION SYSTEM ON LANDSCAPE TIME CLOCK.
 2. PROVIDE BACKFLOW PREVENTOR FOR DRIP IRRIGATION SYSTEM.
 3. SPRAY ALL GROUND COVER AREAS W/ PRE-EMERGENT FOR WEED CONTROL.
 4. PROVIDE WEED BARRIER IN ALL PLANTER AREAS.
 5. GROUND COVER IN ALL PLANTER AREAS SHALL BE 3/4" COLORED ROCK. WHERE SLOPES ARE TOO STEEP, PROVIDE 2' - 3" FRACTURED RIP RAP OF MATCHING COLOR.
 6. REFER TO LANDSCAPE DETAILS, SHEET L1.1

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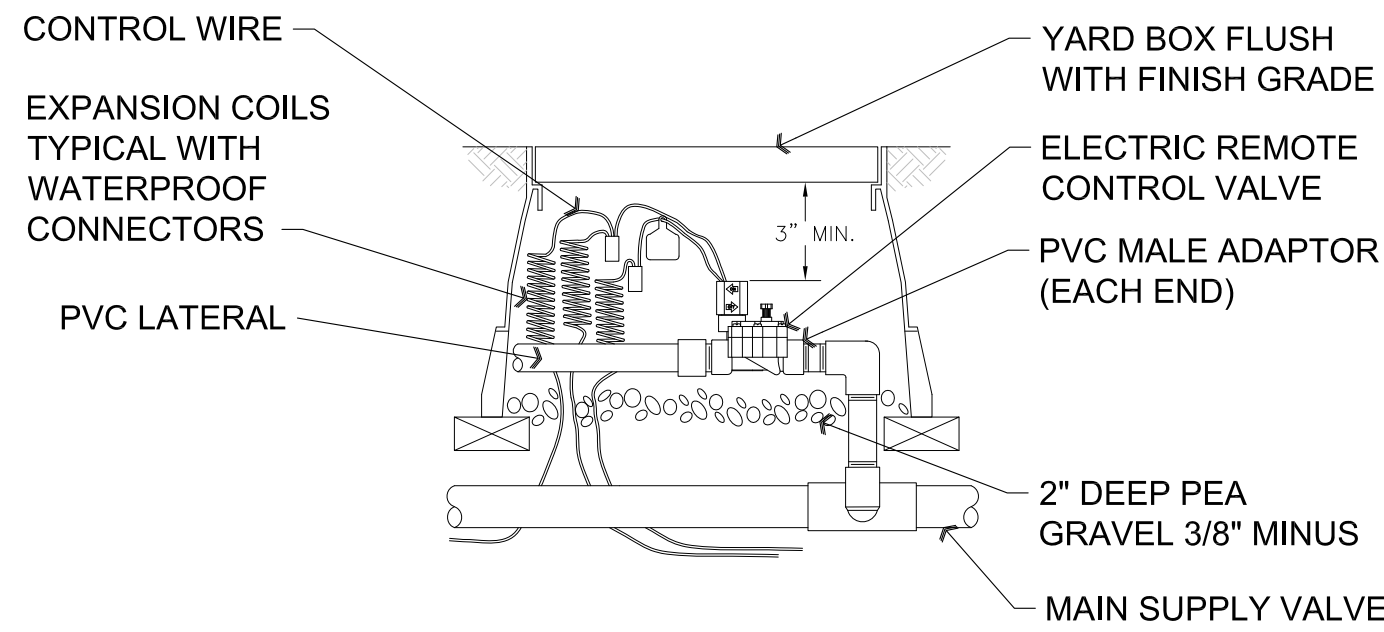
DRAWING: LANDSCAPE PLAN

PROJECT: Lembe-Mellul Residence
12255 Slate Rd.
Prescott, AZ 86305

DRAWN BY L.O.
CHECKED BY W.A.K.
DATE JANUARY 27, 2016
SCALE AS NOTED
JOB NO. 674
SHEET

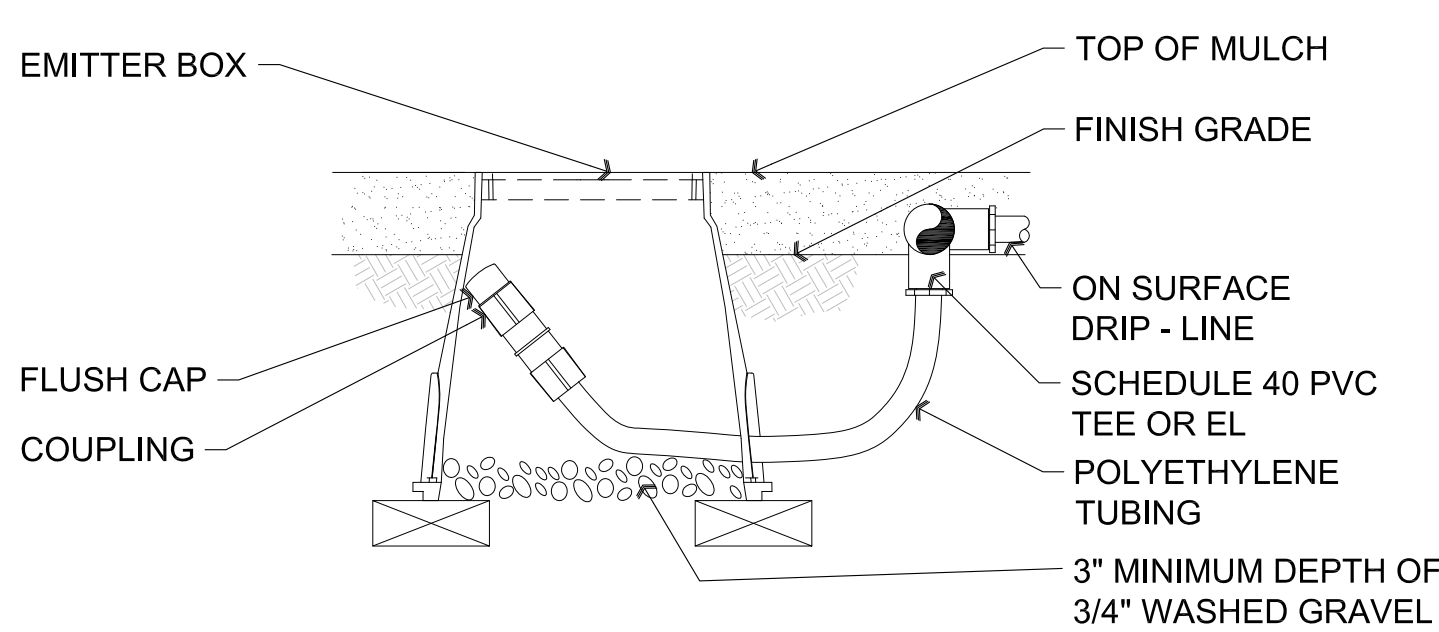
L1.0

Jan 29, 2016 - 8:29am



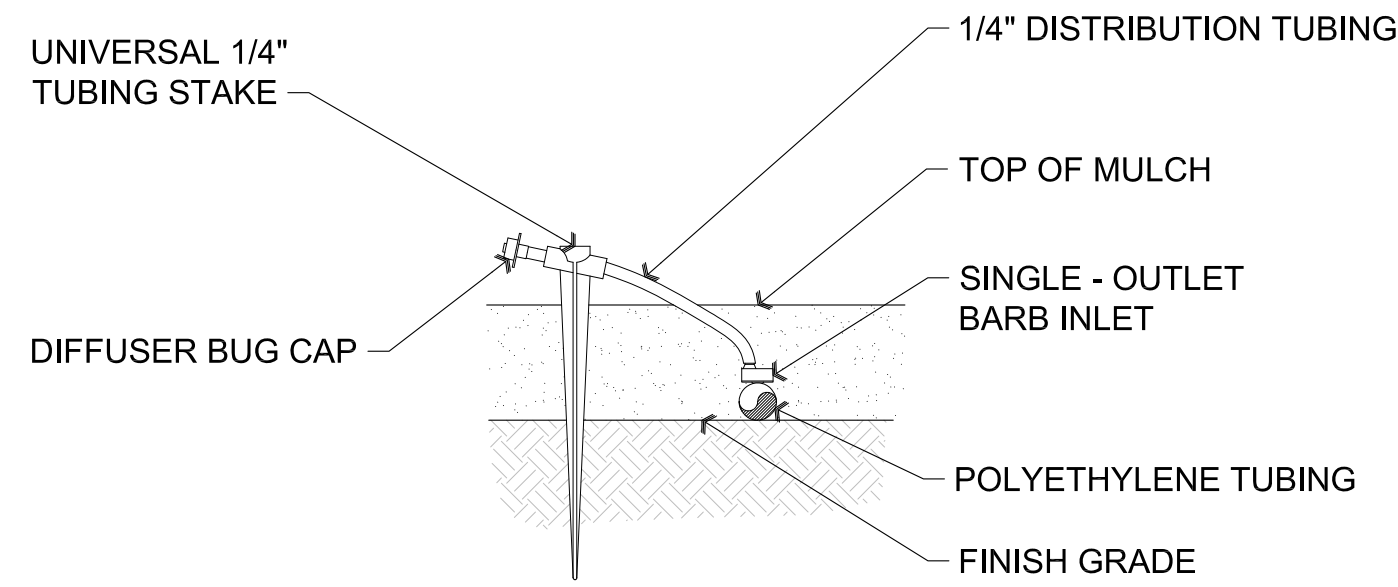
NOTE: SEAL ALL THREADED JOINTS / FITTINGS WITH APPROVED SEALANT PRIOR TO ASSEMBLY

A4 Typical Electric Remote Control Valve



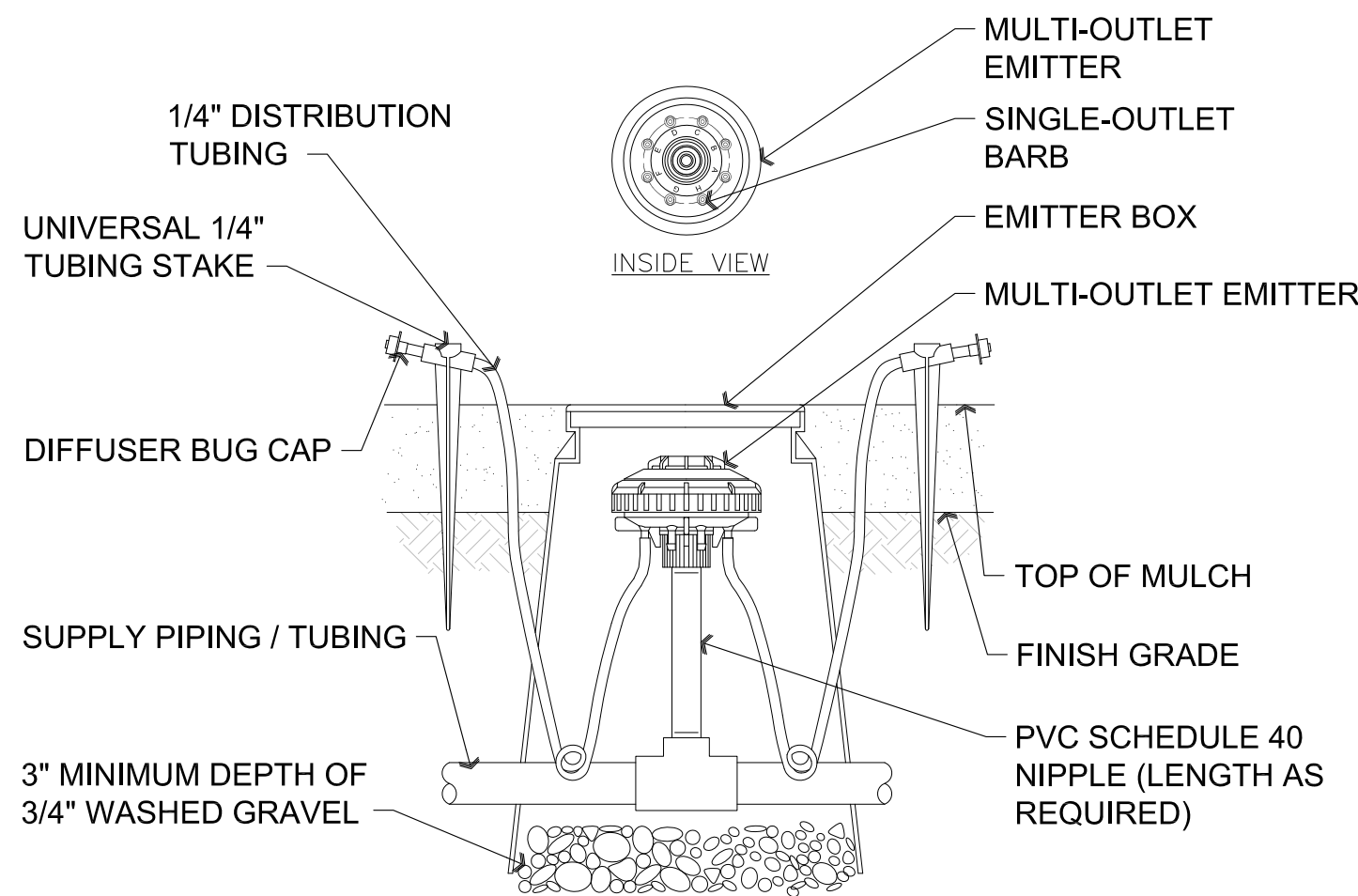
NOTE: ALLOW A MINIMUM 6" OF DRIP - LINE TUBING IN VALVE BOX IN ORDER TO DIRECT FLUSHED WATER OUTSIDE VALVE BOX.

B4 Typical Drip Line Flush Box



NOTE: FOR SLOPED CONDITIONS PLACE DISTRIBUTION POINT AT THE HIGH POINT OF THE PLANTING WELL.

B3 Typical Single - Port Emitter

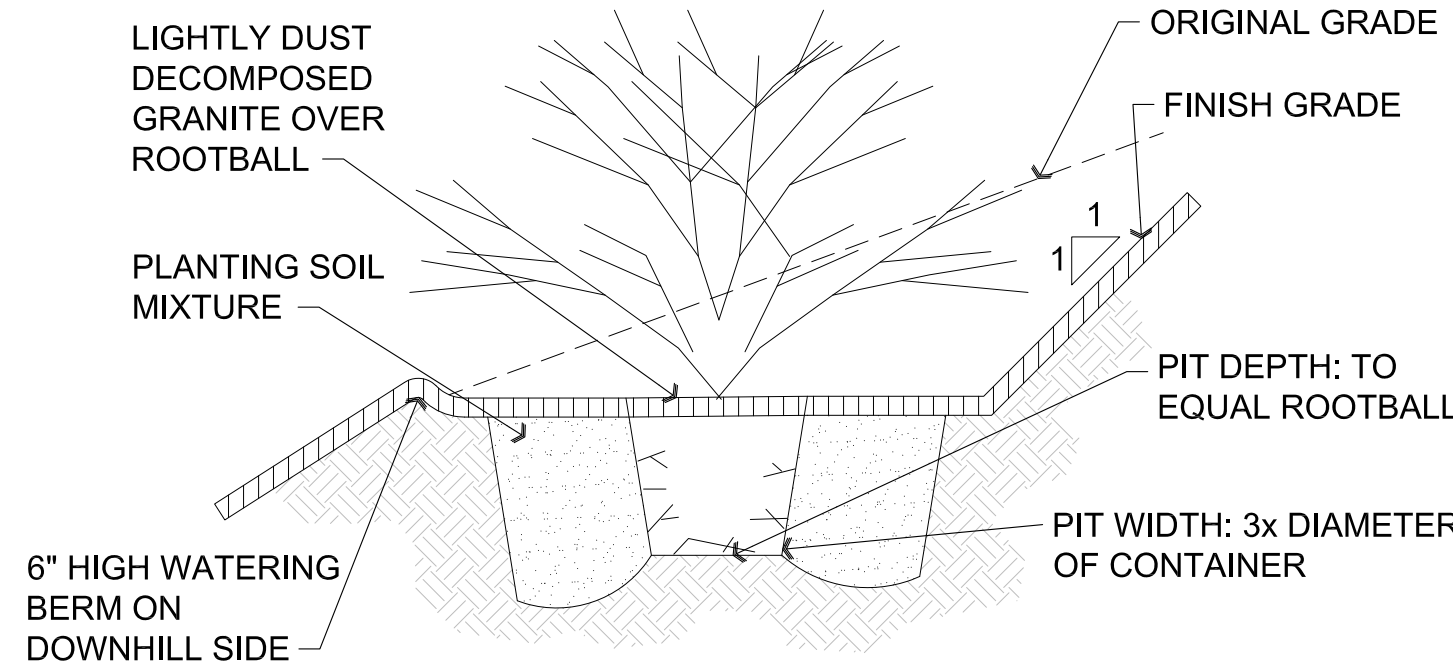


NOTE: COIL ADDITIONAL 9" OF TUBING IN EMITTER BOX TO FACILITATE MAINTENANCE.

INSTALL A MINIMUM OF (1) MULTI-PORT EMITTER PER TREE - EQUALLY SPACED AROUND DRIP LINE OF TREE CANOPY TYPICAL. OPEN ADDITIONAL PORTS AND INSTALL SPAGHETTI DISTRIBUTION TUBING TO PROVIDE ADEQUATE WATER AS TREE MATURES, (TYP.)

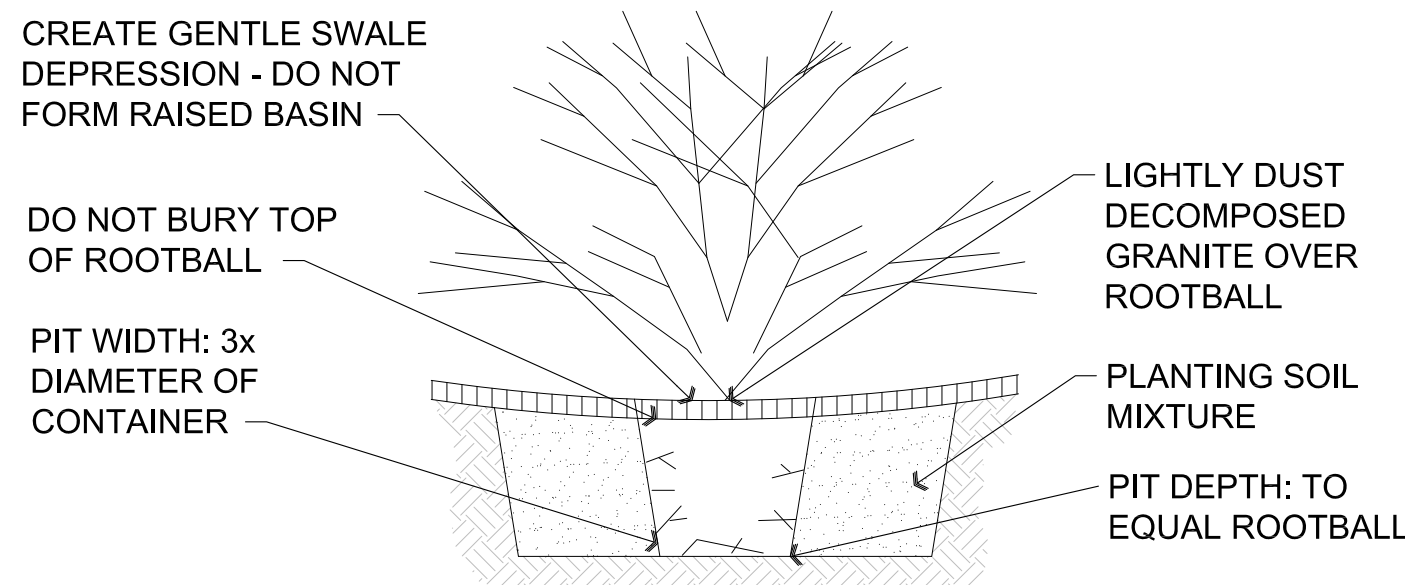
FOR SLOPED CONDITIONS PLACE DISTRIBUTION POINT AT THE HIGH POINT OF PLANTING WELL.

B1 Typical Multi - Port Emitter



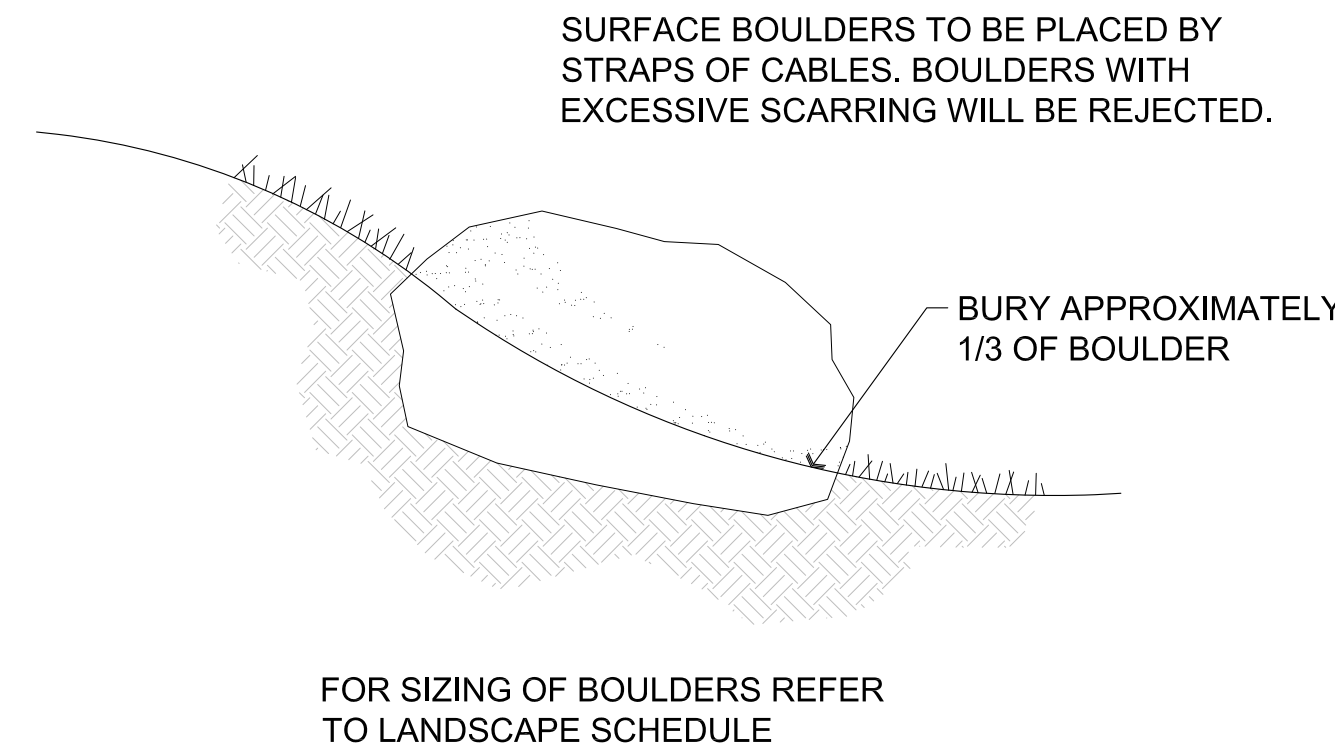
PLANTS SHALL BE INSPECTED FOR ROOTBOUND CONDITIONS BEFORE PLANTING. ANY ROOTBOUND PLANT SHALL BE REPLACED WITH SUITABLE PLANT.

C4 Typical Shrub Planting on Slope

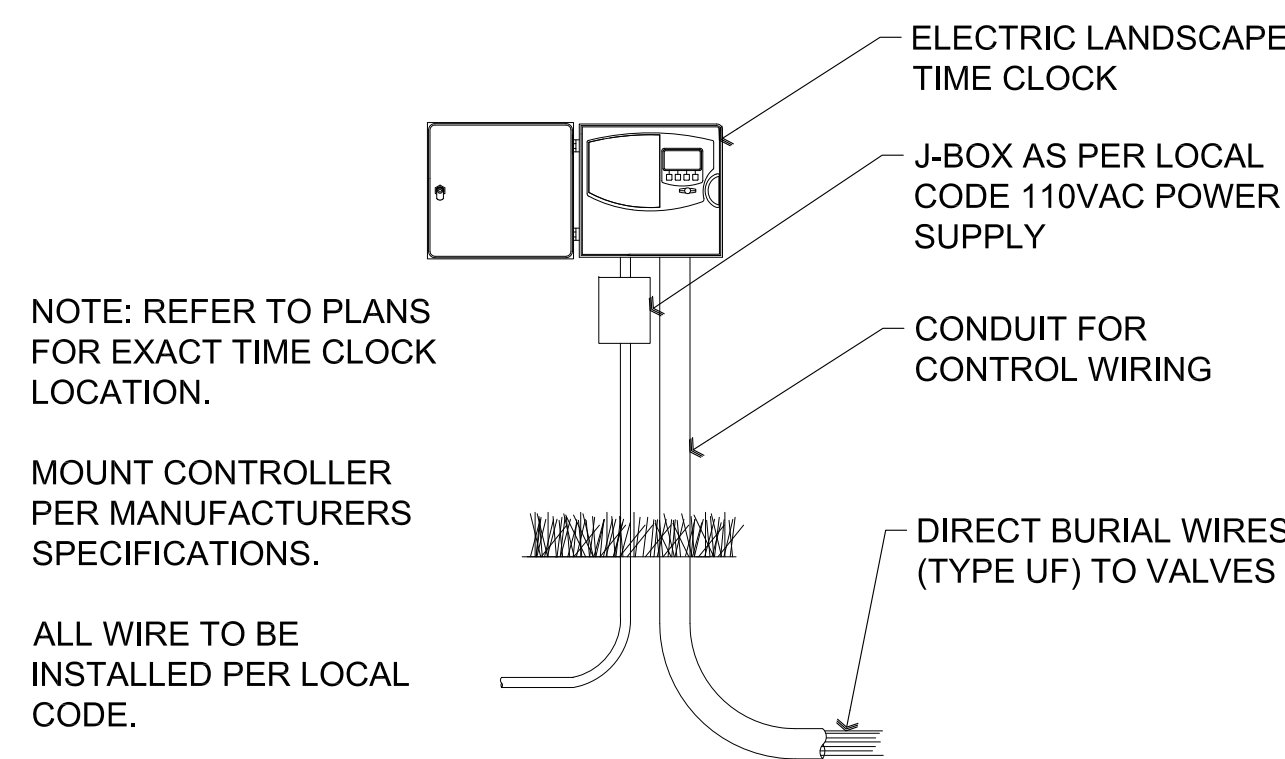


PLANTS SHALL BE INSPECTED FOR ROOTBOUND CONDITIONS BEFORE PLANTING. ANY ROOTBOUND PLANT SHALL BE REPLACED WITH SUITABLE PLANT.

C3 Typical Shrub Planting



C2 Typical Boulder Detail

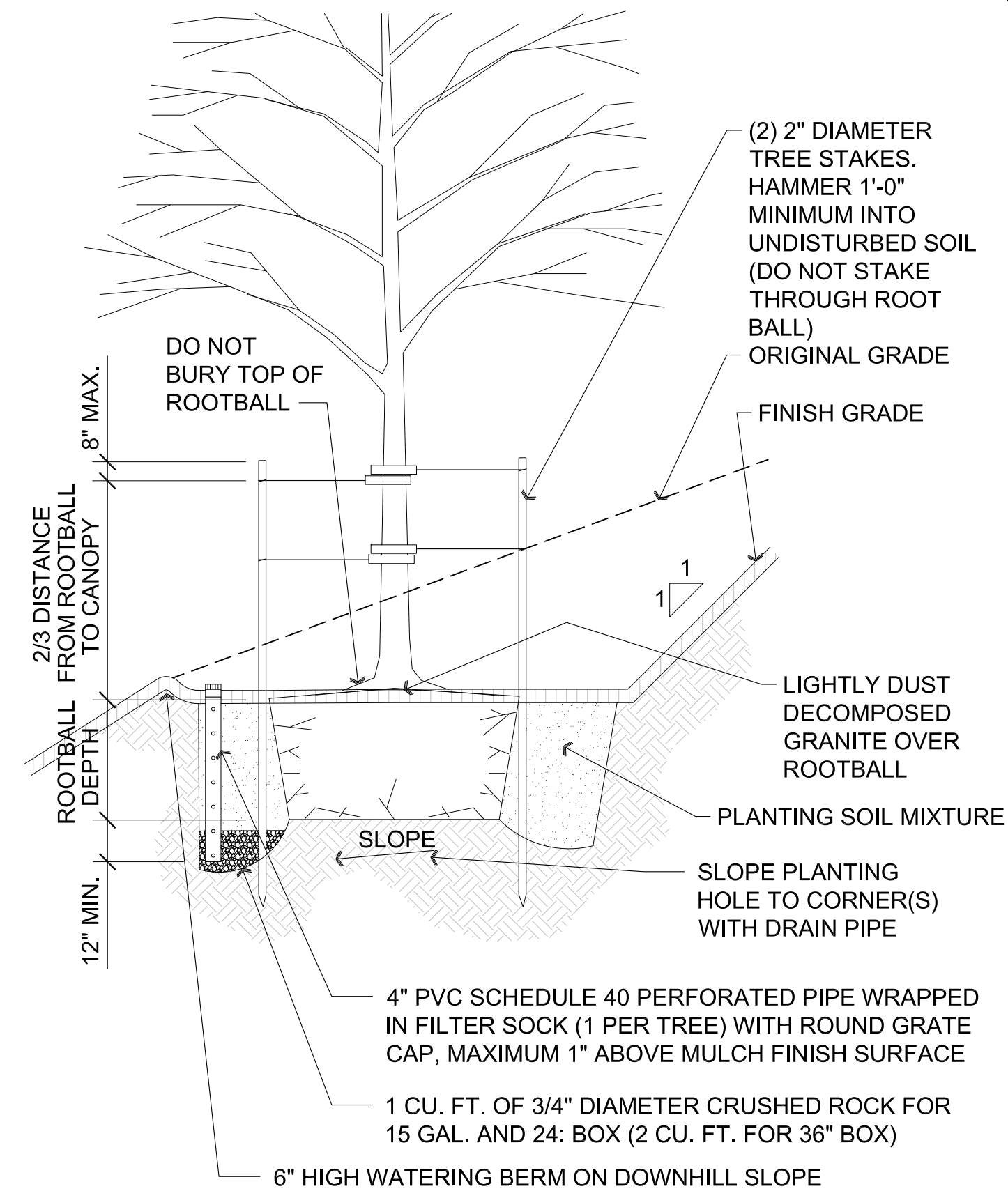


NOTE: REFER TO PLANS FOR EXACT TIME CLOCK LOCATION.

MOUNT CONTROLLER PER MANUFACTURERS SPECIFICATIONS.

ALL WIRE TO BE INSTALLED PER LOCAL CODE.

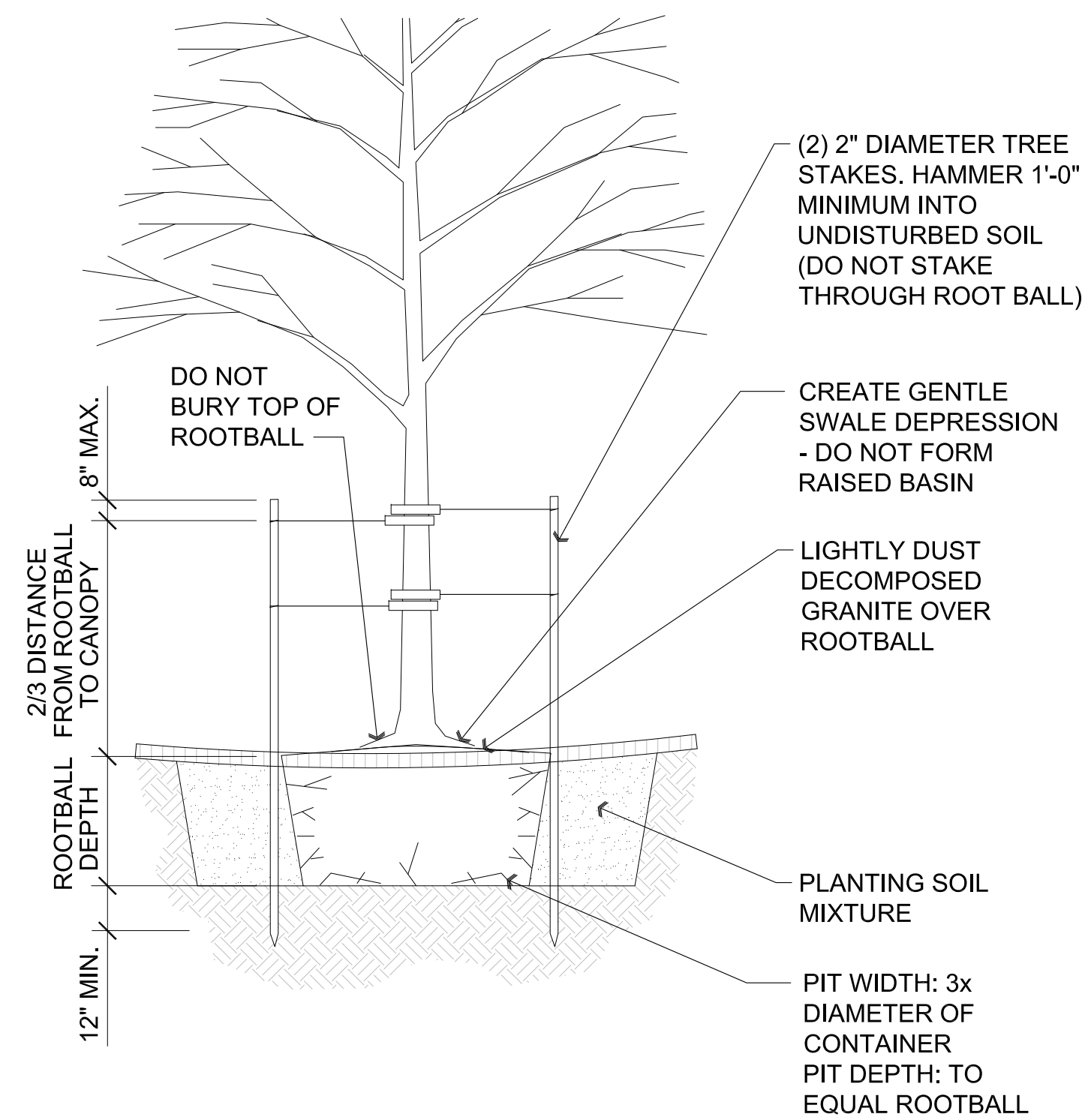
C1 Typical Electric Landscape Time Clock



NOTE: STAKE TREE PERPENDICULAR TO DIRECTION OF PREVAILING WIND.

PLANTS SHALL BE INSPECTED FOR ROOTBOUND CONDITIONS BEFORE PLANTING. ANY ROOTBOUND PLANT SHALL BE REPLACED WITH SUITABLE PLANT.

D3 Typical Tree Planting on Slope



NOTE: STAKE TREE PERPENDICULAR TO DIRECTION OF PREVAILING WIND.

PLANTS SHALL BE INSPECTED FOR ROOTBOUND CONDITIONS BEFORE PLANTING. ANY ROOTBOUND PLANT SHALL BE REPLACED WITH SUITABLE PLANT.

D1 Typical Tree Planting

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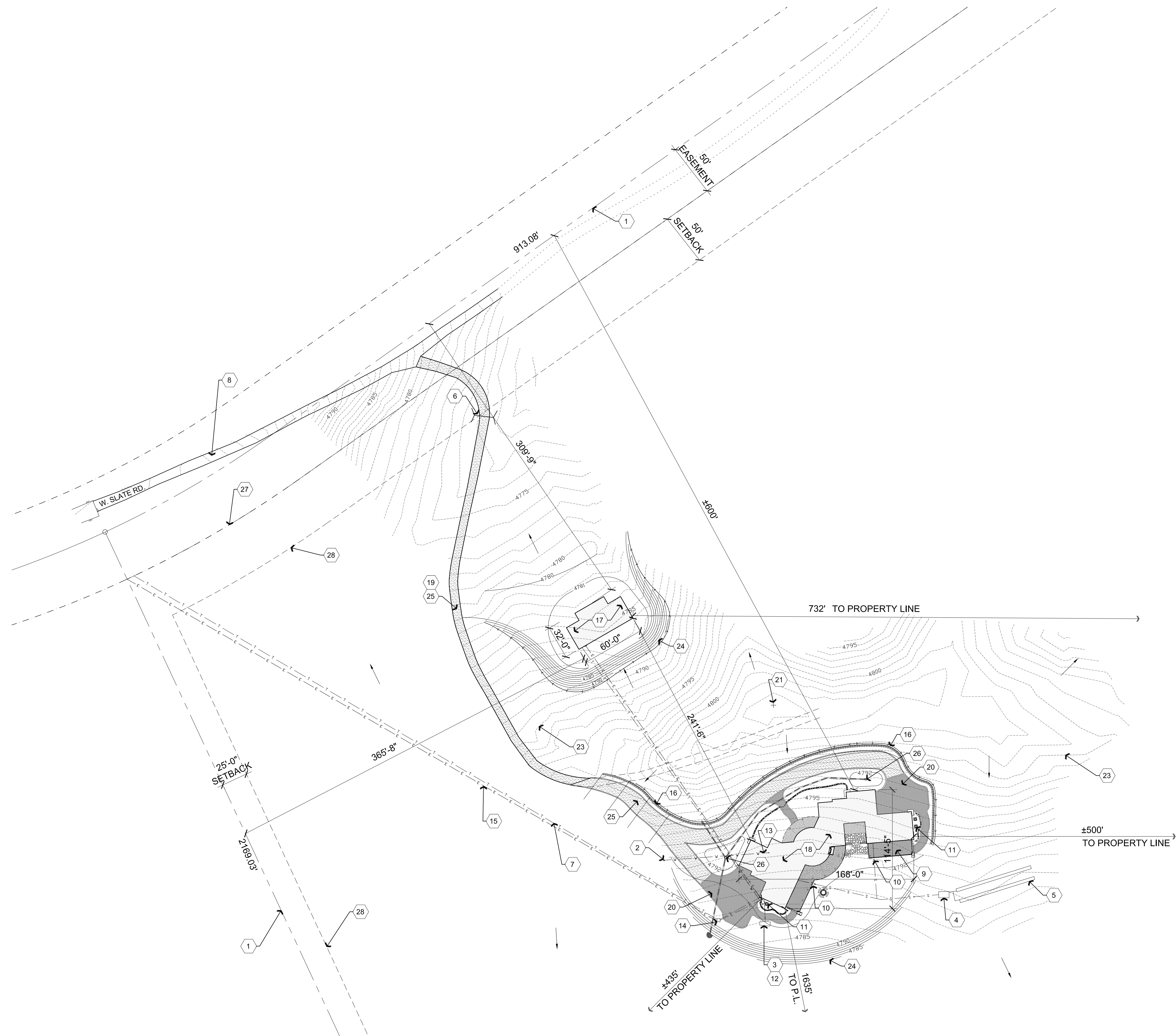
ARCHITECTURE & PLANNING

DRAWING: LANDSCAPE DETAILS

PROJECT: Lembke-Mellul Residence
12255 Slate Rd.
Prescott, AZ 86305

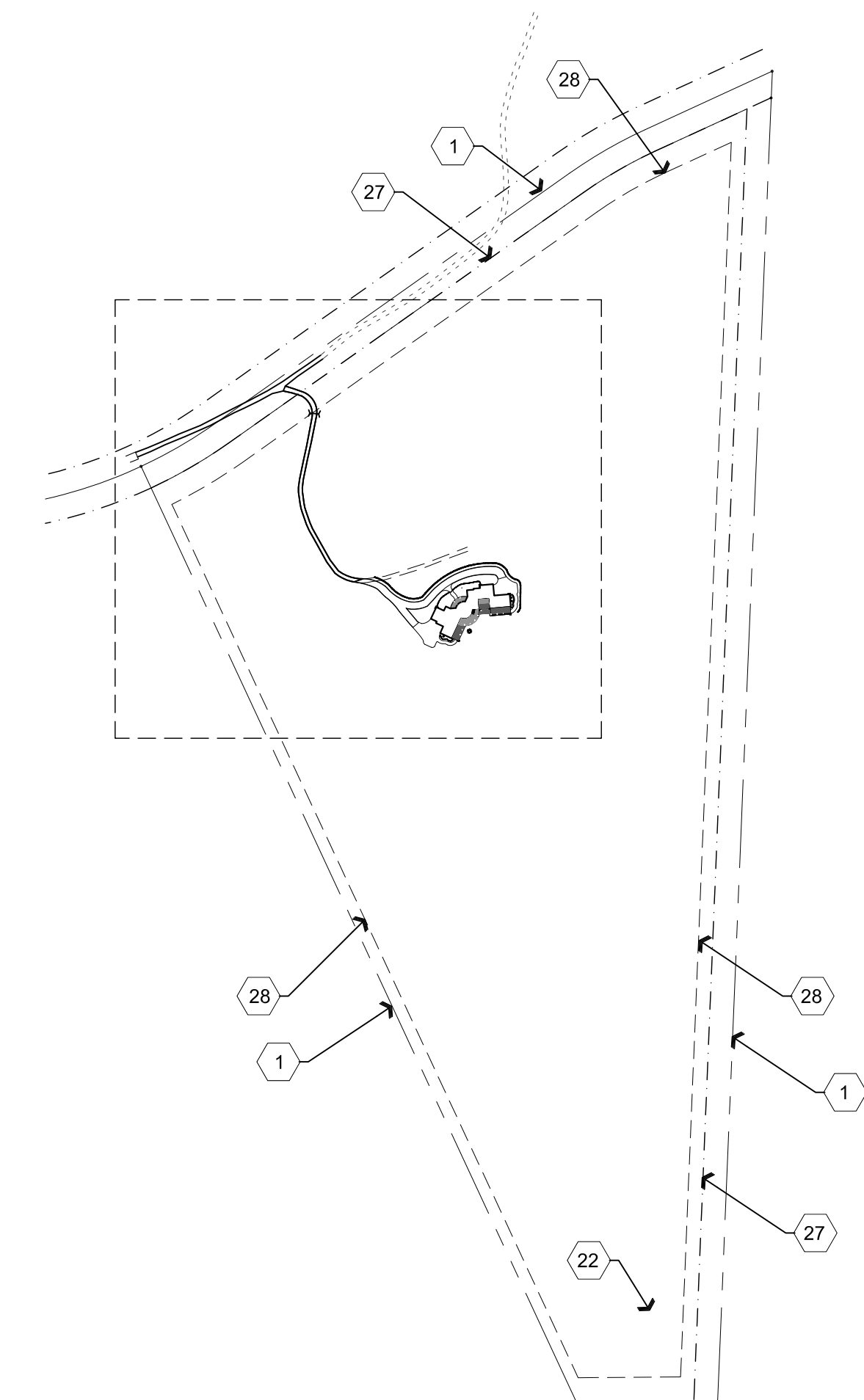
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CHECKED BY W.A.K.
DATE JANUARY 27, 2016
SCALE AS NOTED
JOB NO. 674
SHEET

L1.1



A1 Site Plan

Scale: 1"=50'-0"



A2 Key Plan
Scale: N.T.S.

Scale: N.T.S.



Descriptive Keynotes

1. PROPERTY LINE.
2. PROPOSED WELL HEAD.
3. 1000 GALLON PROPANE TANK BELOW GROUND.
4. SEPTIC TANK.
5. LEACH FIELD.
6. PROVIDE 18" DIAMETER HDPE CULVERT. REFER TO CIVIL PLANS.
7. PROVIDE 2" DB 120 ELECTRICAL CONDUIT FOR TELEPHONE CABLE.
8. EXISTING ROAD.
9. CONCRETE PAVERS.
10. PROVIDE TWO WAY SEWER CLEAN OUT.
11. CONDENSING UNIT REFER TO MECHANICAL PLANS.
12. PROPANE SHUT OFF VALVE.
13. 1 1/2" SCHEDULE 40 PVC WATER LINE.
14. UTILITY COMPANY TRANSFORMER.
15. DB 120 ELECTRICAL CONDUIT, SIZE TO BE DETERMINED BY ARIZONA PUBLIC SERVICE.
16. DRY STACK ROCKERY WALL. REFER TO CIVIL PLANS.
17. PROPOSED WORKSHOP ON A SEPARATE PERMIT.
18. PROPOSED 5,005 S.F. RESIDENCE. F.F.E. = 4793'
19. EXISTING DIRT DRIVEWAY.
20. PROPOSED CONCRETE PAVERS DRIVEWAY.
21. HIGH POINT ON LOT - 4804'.
22. LOW POINT ON LOT - 4740'. (SOUTHEAST CORNER OF LOT)
23. EXISTING CONTOURS. REFER TO CIVIL PLANS.
24. PROPOSED CONTOURS. REFER TO CIVIL PLANS.
25. STABILIZED DECOMPOSED GRANITE DRIVEWAY.
26. DRAIN BASIN INLET. REFER TO CIVIL PLANS.
27. EASEMENT LINE.
28. SETBACK LINE.

APN: 300-37-129

NOTES:

1. DIFFERENCE BETWEEN HIGH AND LOW POINT ON LOT IS 64'.
2. SURVEY ELEVATIONS USE THE NAVD88.

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DRAWING: SITE PLAN

PROJECT: Lembke-Mellul Residence
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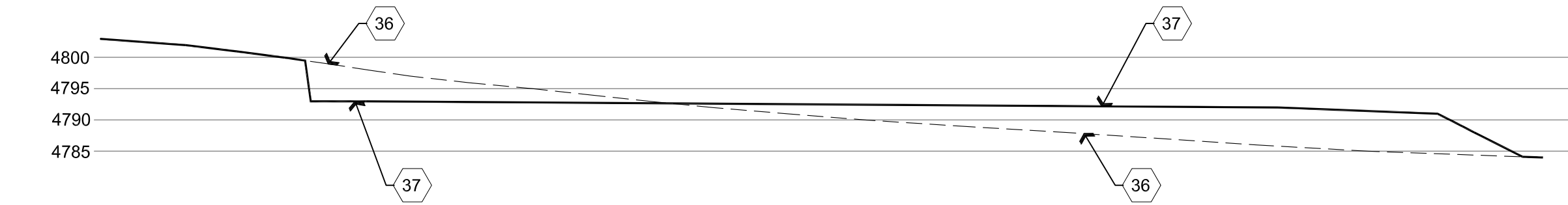
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JANUARY 03, 2016

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JOB NO.
674

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A1.0

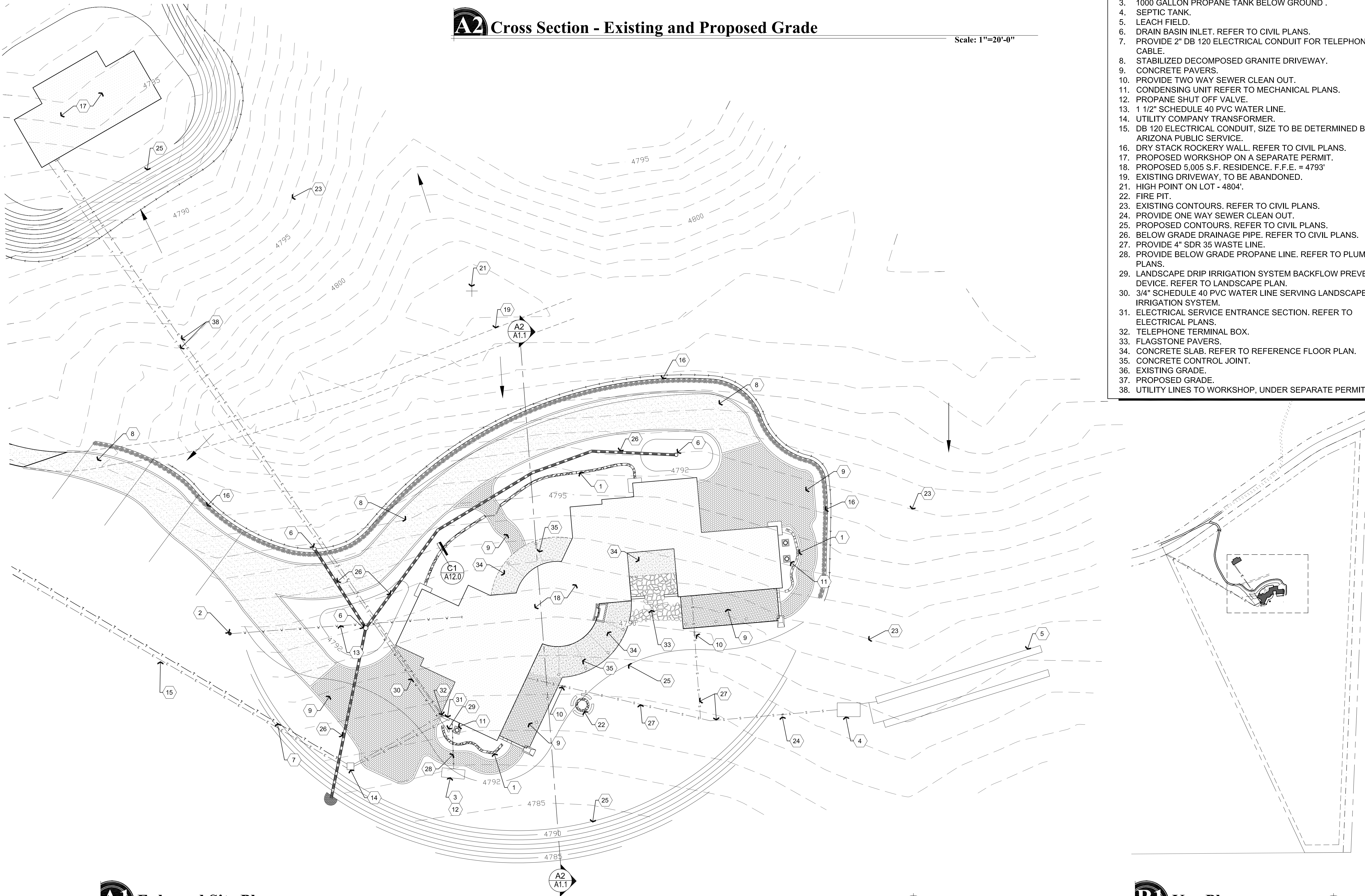


A2 Cross Section - Existing and Proposed Grade

Scale: 1"=20'-0"

Descriptive Keynotes

1. LANDSCAPE WALL. REFER TO LANDSCAPE PLAN.
2. WELL HEAD.
3. 1000 GALLON PROPANE TANK BELOW GROUND .
4. SEPTIC TANK.
5. LEACH FIELD.
6. DRAIN BASIN INLET. REFER TO CIVIL PLANS.
7. PROVIDE 2" DB 120 ELECTRICAL CONDUIT FOR TELEPHONE CABLE.
8. STABILIZED DECOMPOSED GRANITE DRIVEWAY.
9. CONCRETE PAVERS.
10. PROVIDE TWO WAY SEWER CLEAN OUT.
11. CONDENSING UNIT REFER TO MECHANICAL PLANS.
12. PROPANE SHUT OFF VALVE.
13. 1 1/2" SCHEDULE 40 PVC WATER LINE.
14. UTILITY COMPANY TRANSFORMER.
15. DB 120 ELECTRICAL CONDUIT, SIZE TO BE DETERMINED BY ARIZONA PUBLIC SERVICE.
16. DRY STACK ROCKERY WALL. REFER TO CIVIL PLANS.
17. PROPOSED WORKSHOP ON A SEPARATE PERMIT.
18. PROPOSED 5,005 S.F. RESIDENCE. F.F.E. = 4793'
19. EXISTING DRIVEWAY, TO BE ABANDONED.
21. HIGH POINT ON LOT - 4804'.
22. FIRE PIT.
23. EXISTING CONTOURS. REFER TO CIVIL PLANS.
24. PROVIDE ONE WAY SEWER CLEAN OUT.
25. PROPOSED CONTOURS. REFER TO CIVIL PLANS.
26. BELOW GRADE DRAINAGE PIPE. REFER TO CIVIL PLANS.
27. PROVIDE 4" SDR 35 WASTE LINE.
28. PROVIDE BELOW GRADE PROPANE LINE. REFER TO PLUMBING PLANS.
29. LANDSCAPE DRIP IRRIGATION SYSTEM BACKFLOW PREVENTION DEVICE. REFER TO LANDSCAPE PLAN.
30. 3/4" SCHEDULE 40 PVC WATER LINE SERVING LANDSCAPE DRIP IRRIGATION SYSTEM.
31. ELECTRICAL SERVICE ENTRANCE SECTION. REFER TO ELECTRICAL PLANS.
32. TELEPHONE TERMINAL BOX.
33. FLAGSTONE PAVERS.
34. CONCRETE SLAB. REFER TO REFERENCE FLOOR PLAN.
35. CONCRETE CONTROL JOINT.
36. EXISTING GRADE.
37. PROPOSED GRADE.
38. UTILITY LINES TO WORKSHOP, UNDER SEPARATE PERMIT.



A1 Enlarged Site Plan

Scale: 1"=20'-0"



B1 Key Plan

Scale: N.T.S.



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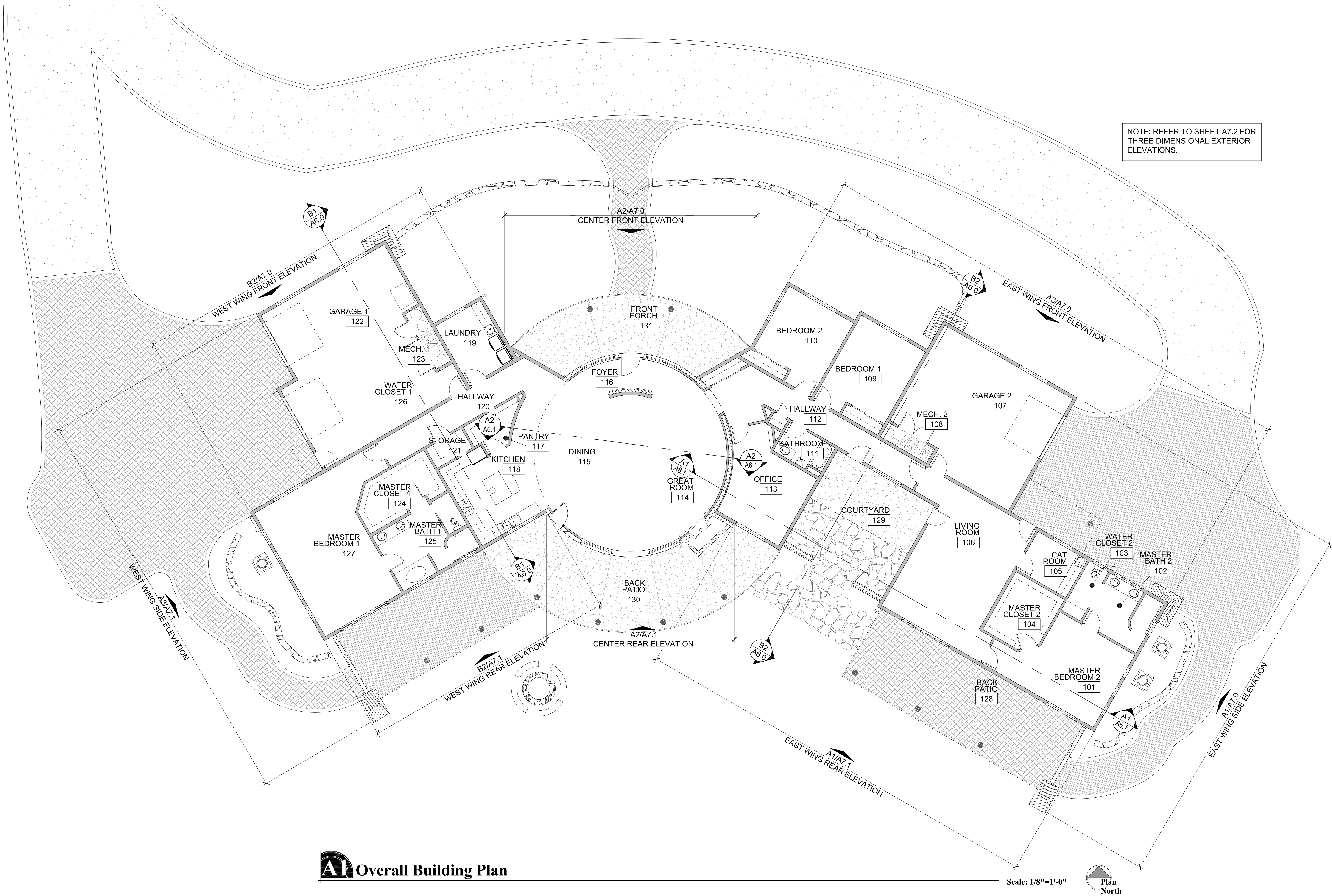
DRAWING: ENLARGED SITE PLAN

PROJECT: Lembke-Mellul Residence
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Prescott, AZ 86305

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A1.1

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A1 Overall Building Plan

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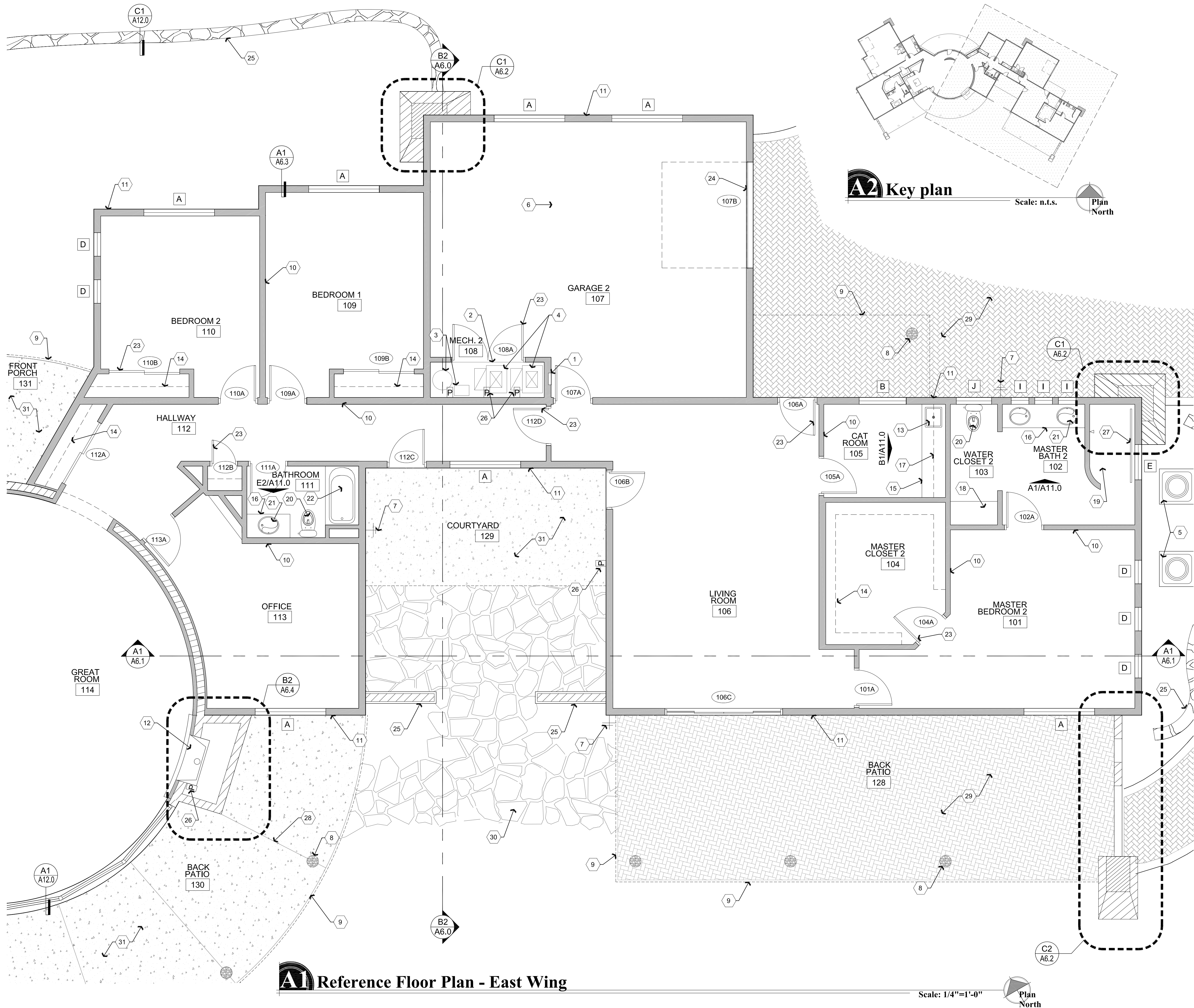
DRAWING: OVERALL BUILDING PLAN

PROJECT: Lembke-Mellul Residence
12255 Slate Rd.
Prescott, AZ 86305

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DATE JANUARY 27, 2016
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A2.0

Jan 29, 2016 - 8:31am



Descriptive Keynotes

1. ELECTRICAL SUB-PANEL. REFER TO ELECTRICAL PLANS.
2. PROVIDE 18" HIGH PLATFORM FOR GAS FURNACE AND WATER STORAGE TANK.
3. PROVIDE TANKLESS WATER HEATER WITH HOT WATER STORAGE TANK AND RECIRCULATING PUMP.
4. AIR HANDLER. REFER TO MECHANICAL PLANS.
5. CONDENSING UNIT, REFER TO MECHANICAL PLANS.
6. GARAGE FLOOR SURFACE USED FOR PARKING OF AUTOMOBILE OR OTHER VEHICLES SHALL BE SLOPED TO FACILITATE THE MOVEMENT OF LIQUIDS TO A DRAIN OR TOWARD THE MAIN VEHICLE ENTRY DOORWAY.
7. PROVIDE FROST PROOF HOSE BIBB.
8. WOOD COLUMN. REFER TO STRUCTURAL PLANS.
9. LINE OF ROOF ABOVE.
10. INTERIOR WALL, REFER TO WALL TYPES PLAN.
11. EXTERIOR WALL, REFER TO WALL TYPES PLAN.
12. GAS FIRED LOG FIREPLACE BY OWNER.
13. PROVIDE UTILITY SINK.
14. CLOSET ROD / SHELVING BY OWNER.
15. PROVIDE COUNTERTOP AS SELECTED BY OWNER.
16. PROVIDE WOOD BASE CABINETRY.
17. PROVIDE WOOD BASE / UPPER CABINETRY. REFER TO INTERIOR ELEVATIONS.
18. PROVIDE 2'-0" DEEP SHELVING.
19. PROVIDE CERAMIC TILED, DOORLESS SHOWER.
20. TOILET AS SELECTED BY OWNER.
21. LAVATORY AS SELECTED BY OWNER.
22. BATH TUB AS SELECTED BY OWNER.
23. PROVIDE DOOR, TYPICAL. REFER TO DOOR SCHEDULE.
24. PROVIDE GARAGE DOOR. REFER TO DOOR SCHEDULE.
25. LANDSCAPE WALL. REFER TO SITE PLAN.
26. PROPANE STUB OUT. REFER TO PLUMBING PLANS.
27. TRENCH DRAIN.
28. CONCRETE CONTROL JOINT, TYPICAL.
29. CONCRETE PAVERS OVER COMPACTED ABC.
30. FLAGSTONE OVER COMPACTED ABC.
31. 4" CONCRETE SLAB WITH #3 @ 3'-0" O.C. OVER 6" COMPACTED ABC.

GENERAL NOTES:

1. A SHUTOFF VALVE BETWEEN THE PROPANE TANK AND THE HOUSE IS REQUIRED.
2. A HOT WATER RE-CIRCULATING PUMP SHALL BE INSTALLED WITH THE HOT WATER PIPING BEING INSULATED TO A MINIMUM OF R-2.
3. A MINIMUM 0.019 INCH. CORROSION RESISTANT WEEP SCREED, WITH MINIMUM VERTICAL ATTACHMENT FLANGE OF 3-1/2 INCHES SHALL BE PROVIDED AT OR BELOW THE FOUNDATION PLATE LINE ON THE EXTERIOR STUD WALL IN ACCORDANCE WITH ASTM C 926. THE WEEP SCREED SHALL BE PLACED A MINIMUM OF 4 INCHES ABOVE THE EARTH OR 2 INCHES ABOVE PAVED AREAS AND SHALL BE OF A TYPE THAT WILL ALLOW TRAPPED WATER TO DRAIN TO THE EXTERIOR OF THE BUILDING. THE WEATHER RESISTANT BARRIER SHALL LAP THE ATTACHMENT FLANGE. THE EXTERIOR LATH SHALL COVER AND TERMINATE ON THE ATTACHMENT FLANGE OF THE WEEP SCREED.
4. THE GARAGE SHALL BE SEPARATED FROM THE RESIDENCE AND ITS ATTIC AREA BY NOT LESS THAT 1/2" GPDW APPLIED TO THE GARAGE SIDE.
5. A WATER HEATER RELIEF VALVE SHALL EXTEND OUTSIDE THE BUILDING WITH THE END OF PIPE NOT MORE THAN (2) TWO FEET OR LESS THAN (6) SIX INCHES ABOVE THE GROUND AND POINTING DOWNWARD.
6. MECHANICAL SYSTEM PIPING CAPABLE OF CARRYING FLUIDS ABOVE 105 F OR BELOW 55 F SHALL BE INSULATED TO A MINIMUM OF R-2.

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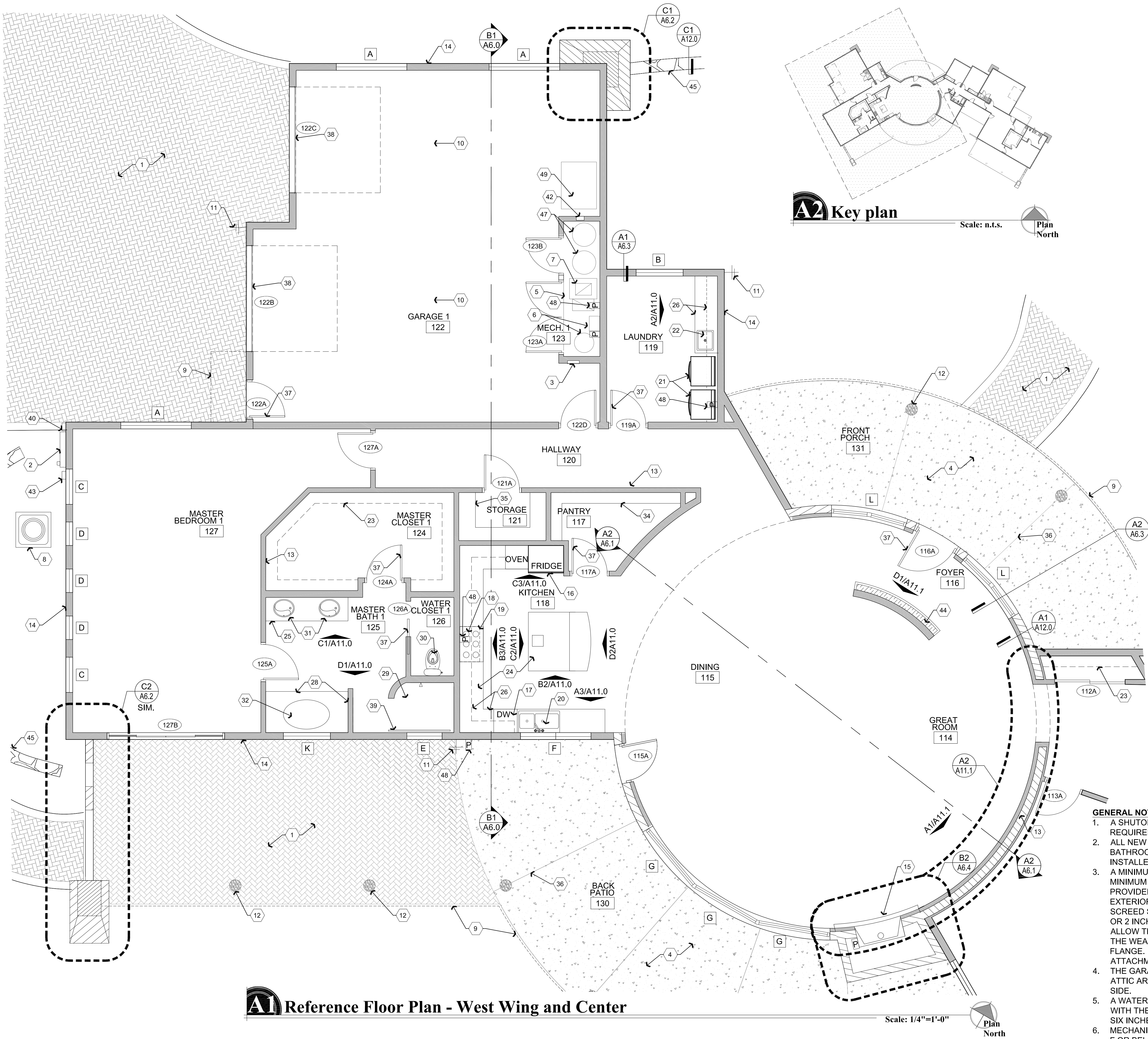
ARCHITECTURE & PLANNING

DRAWING: REFERENCE FLOOR PLAN - EAST WING

PROJECT: Lembke-Mellul Residence
12255 Slate Rd.
Prescott, AZ 86305

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CHECKED BY
W.A.K.
DATE
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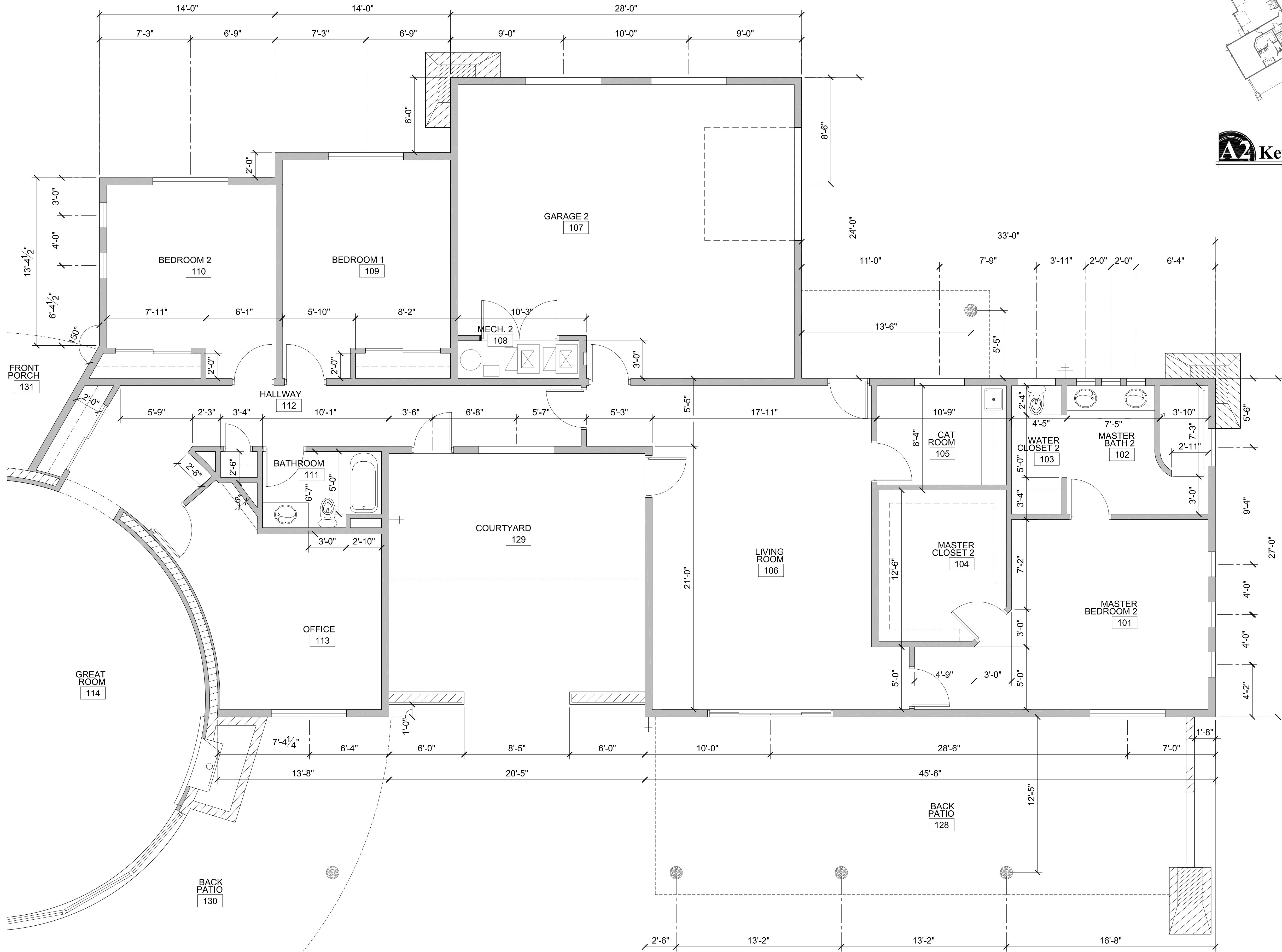
DRAWING: REFERENCE FLOOR PLAN WEST WING AND CENTER

PROJECT: Lembke-Mellul Residence
12255 Slate Rd.
Prescott, AZ 86305

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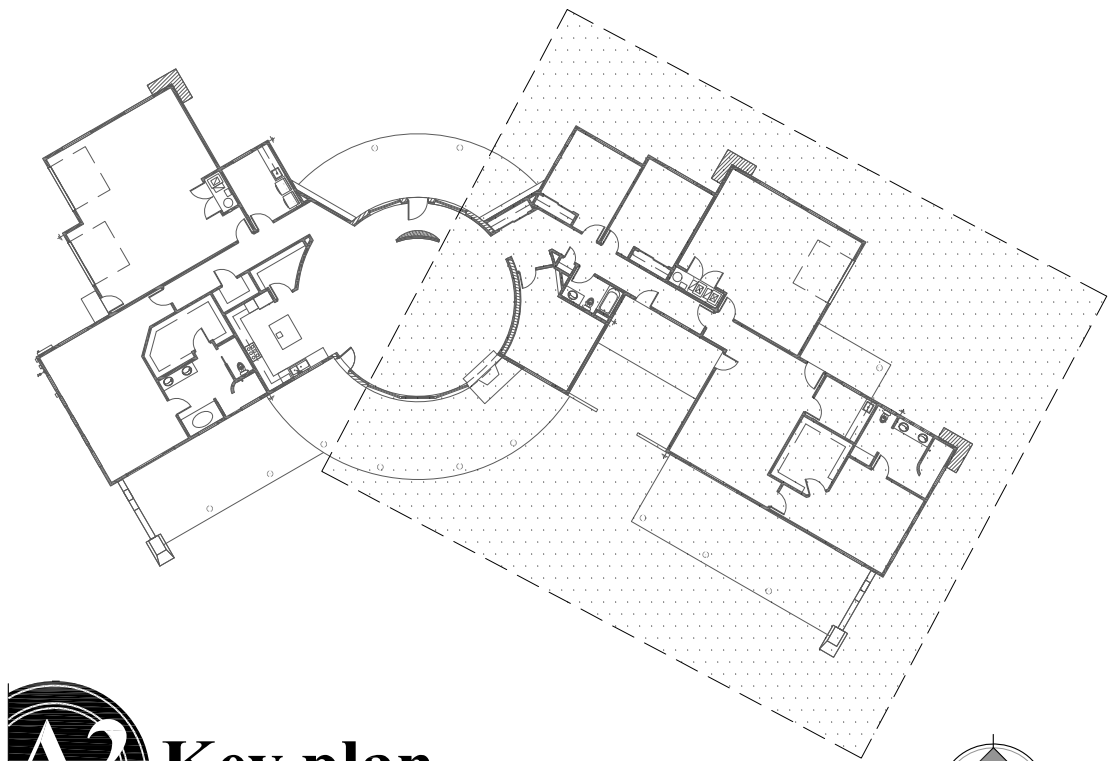
A3.1

Jan 29, 2016 - 8:31am



A1 Dimension Floor Plan - East Wing

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



A2 Key plan

Scale: n.t.s.



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ARCHITECTURE & PLANNING

DRAWING: DIMENSION FLOOR PLAN - EAST WING

PROJECT: Lembke-Mellul Residence
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Prescott, AZ 86305

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DATE JANUARY 27, 2016
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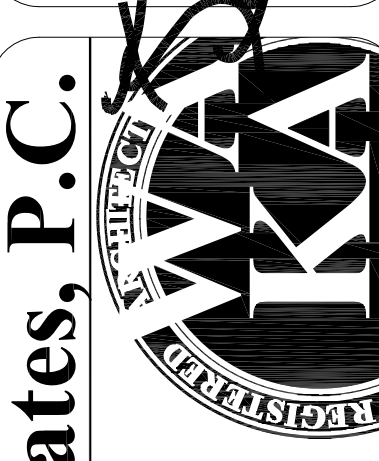
A4.0



Plan
North



Professional Engineer Seal for W. Alan Kenson, State of Arizona, No. 25646, expires 6/30/18.



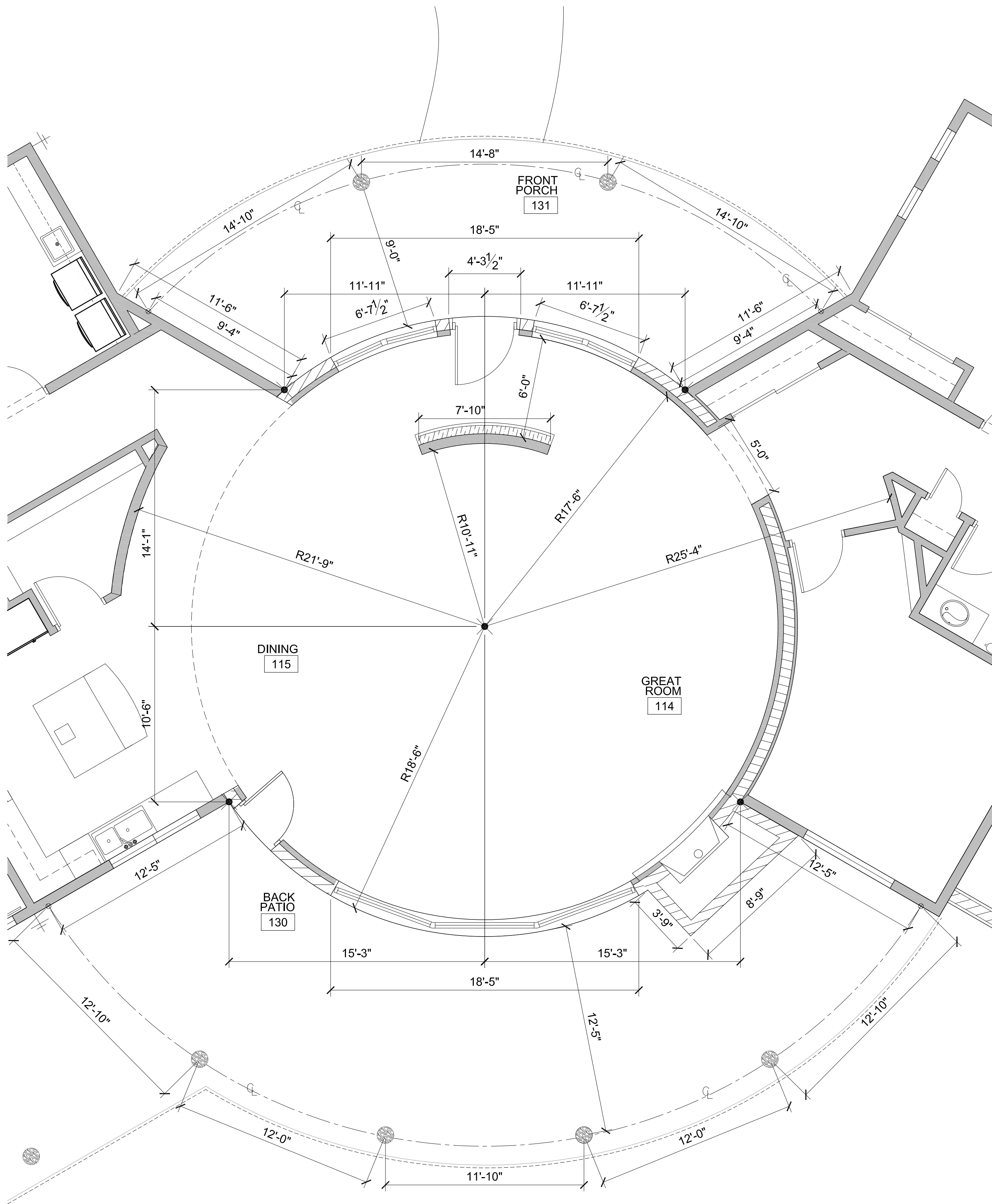
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JOB NO.
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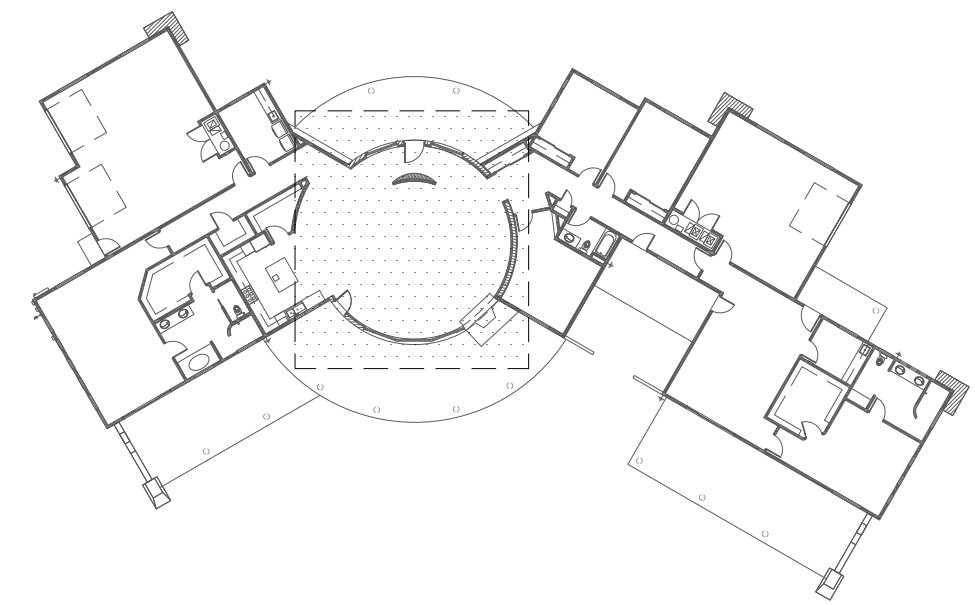
A4.1

Jan 29, 2016 - 8:32am



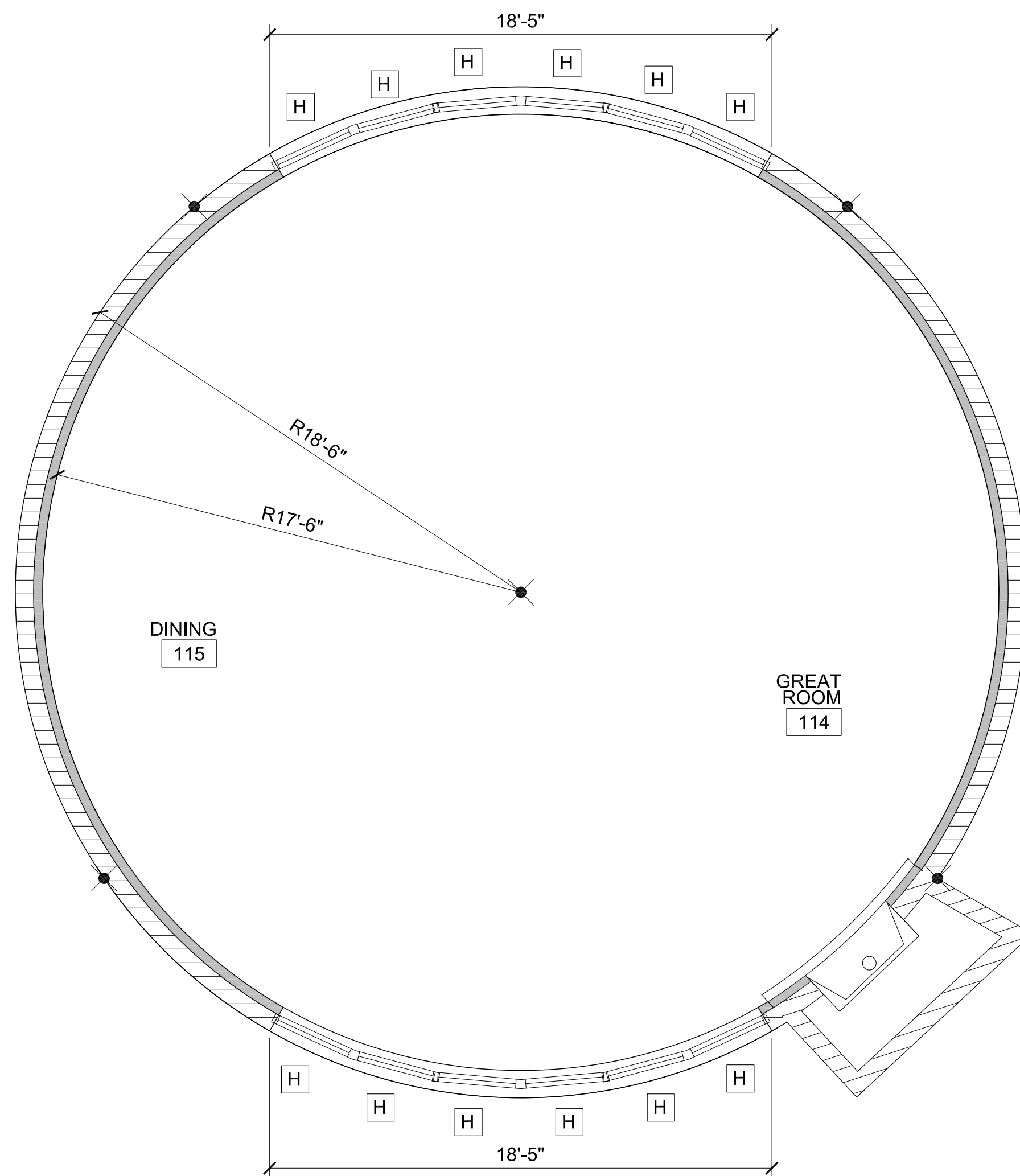
A1 Dimension Floor Plan - Center

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



A2 Key plan

Scale: n.t.s.



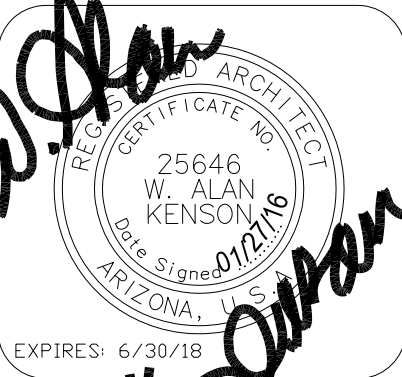
B1 Reference Floor Plan - Center Upper Atrium

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



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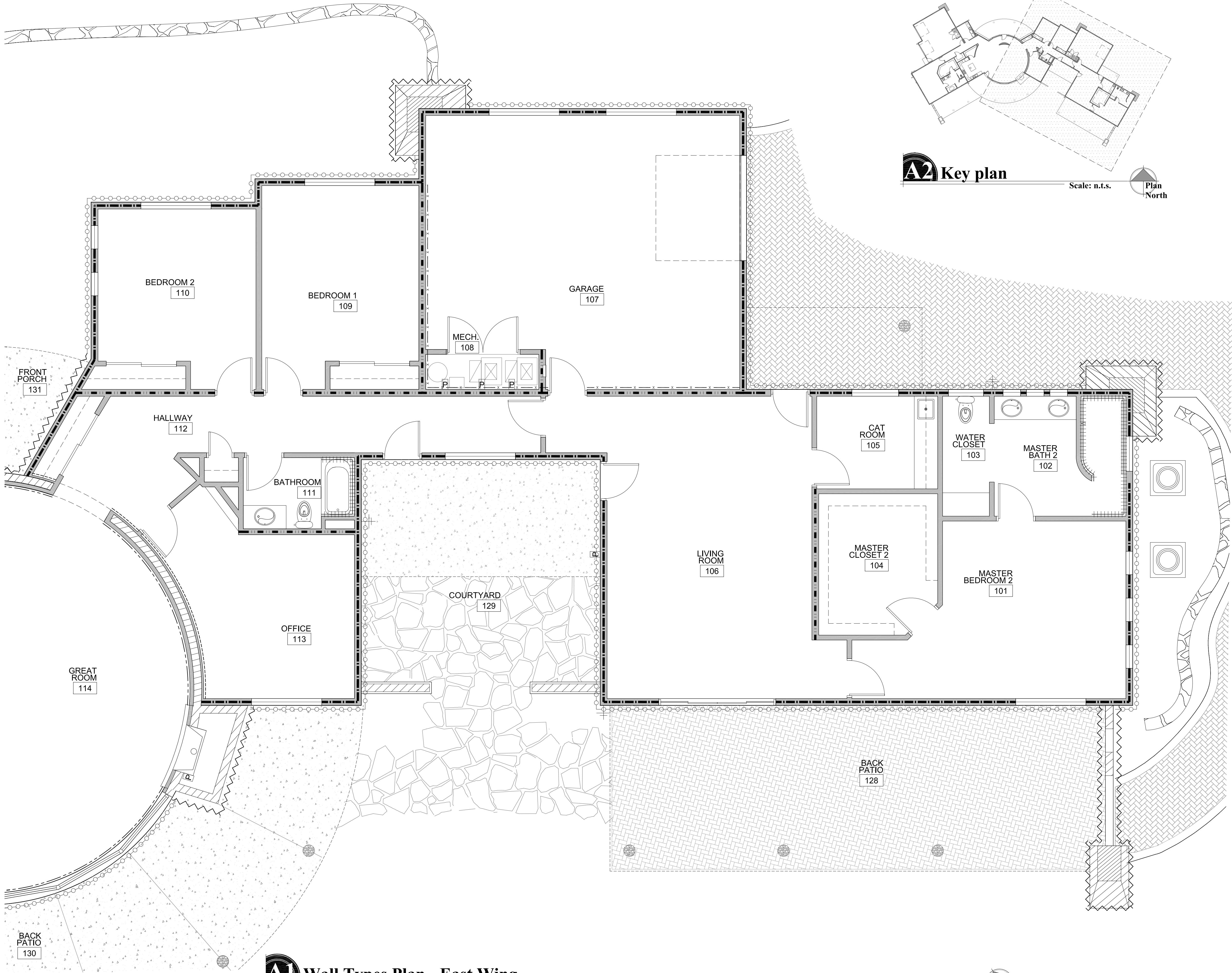
DRAWING: DIMENSION FLOOR PLAN - CENTER

PROJECT: Lembke-Mellul Residence
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Prescott, AZ 86305

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A4.2

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A1 Wall Types Plan - East Wing

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



Wall Types Legend

- EXTERIOR 6" STUD WALL:**
PROVIDE FULL-HEIGHT 2x6 WOOD STUDS AT 1'-4" ON CENTER WITH 1/2" GPDW ON INTERIOR SIDE AND 1/2" OSB ON EXTERIOR SIDE. PROVIDE R-19 UNFACED BATT INSULATION. REFER TO STRUCTURAL PLANS, EXTERIOR ELEVATIONS AND ROOM FINISH SCHEDULE FOR FINISHES.
- EXTERIOR WALL:** PROVIDE WESTERN ONE COAT STUCCO SYSTEM WITH SYNTHETIC FINISH OVER 1" POLYSTYRENE OVER TYVEK HOME WRAP (ESR-2375).
- EXTERIOR CMU WALL:**
PROVIDE WESTERN ONE COAT STUCCO SYSTEM WITH SYNTHETIC FINISH OVER 1" POLYSTYRENE ATTACH TO CMU WALL. REFER TO EXTERIOR ELEVATIONS FOR LOCATIONS.
- EXTERIOR STONE VENEER:**
PROVIDE STONE VENEER, AS SELECTED BY OWNER, FULL HEIGHT OVER METAL LATH OVER TYVEK HOME WRAP (ESR-2375).
- EXTERIOR STONE VENEER:**
PROVIDE STONE VENEER, AS SELECTED BY OWNER, FULL HEIGHT OVER CMU ACCENT COLUMNS AND KNIFE WALLS.
- INTERIOR 6" STUD WALL:**
PROVIDE 1-LAYER 1/2" GPDW ON EACH SIDE OF 2x6 WOOD STUDS AT 1'-4" O.C. PROVIDE SOUND INSULATION AS DIRECTED BY OWNER.
- INTERIOR 2x4 STUD WALL:**
PROVIDE 1-LAYER 1/2" GPDW ON EACH SIDE OF 2x4 WOOD STUDS AT 1'-4" ON CENTER. PROVIDE SOUND INSULATION AS DIRECTED BY OWNER.
- INTERIOR 2x4 STUD WALL:**
PROVIDE 1-LAYER 1/2" GPDW ON ONE SIDE OF 2x4 WOOD STUDS AT 1'-0" ON CENTER. PROVIDE R-13 BATT INSULATION.
- INTERIOR 2x2 STUD WALL:**
PROVIDE 1-LAYER 1/2" GPDW ON ONE SIDE OF 2x2 WOOD STUDS AT 1'-0" ON CENTER.
- WALL BETWEEN GARAGE AND LIVABLE SPACE:** PROVIDE TYVEK OR EQUAL TO BE APPLIED TO THE GARAGE SIDE OF THE WALL BENEATH DRYWALL SEPARATING THE GARAGE FROM THE LIVABLE SPACE.
- BACKERS FOR WALL TILE IN TUB AND SHOWER AREAS:**
PROVIDE CEMENT, FIBER-CEMENT OR GLASS MAT GYPSUM BACKERS FOR WALL TILE IN TUB AND SHOWER AREAS. SUCH WALL SURFACES SHALL EXTEND TO THE CEILING.
- INTERIOR 6" STUD WALL:**
60" HIGH PONY WALL. PROVIDE 1-LAYER 1/2" GPDW ON EACH SIDE OF 2x6 WOOD STUDS AT 1'-4" O.C.

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ARCHITECTURE & PLANNING

DRAWING: WALL TYPES PLAN - EAST WING

PROJECT:

Lembke-Mellul Residence
12255 Slate Rd.
Prescott, AZ 86305

DRAWN BY
L.O.

CHECKED BY
W.A.K.

DATE
JANUARY 27, 2016

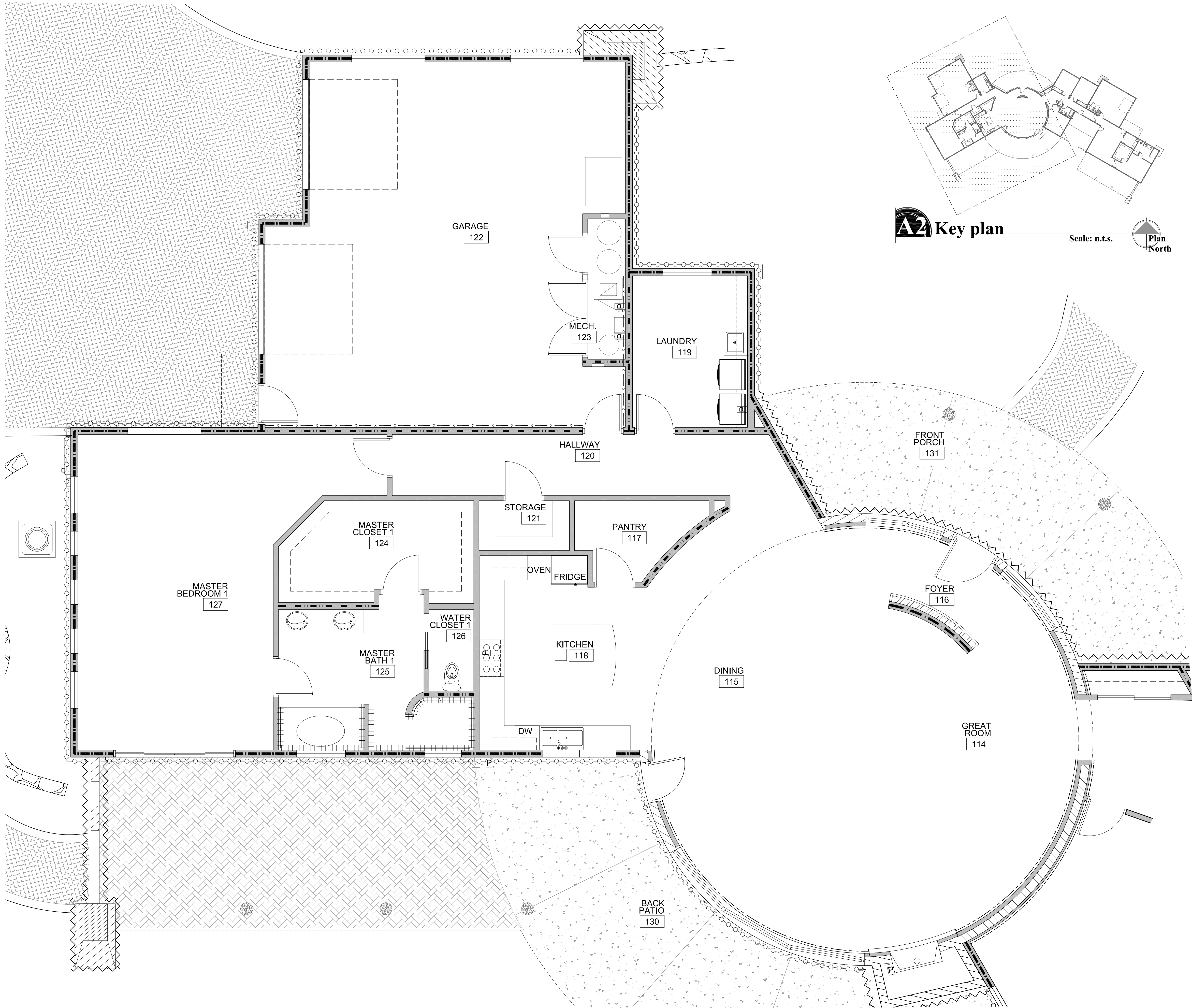
SCALE
AS NOTED

JOB NO.
674

SHEET

A5.0

Jan 29, 2016 - 1:09pm



A1 Wall Types Plan - West Wing and Center

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



A2 Key plan

Scale: n.t.s.



Wall Types Legend

EXTERIOR 6" STUD WALL:
PROVIDE FULL-HEIGHT 2x6 WOOD STUDS AT 1'-4" ON CENTER WITH 1/2" GPDW ON INTERIOR SIDE AND 1/2" OSB ON EXTERIOR SIDE. PROVIDE R-19 UNFACED BATT INSULATION. REFER TO STRUCTURAL PLANS, EXTERIOR ELEVATIONS AND ROOM FINISH SCHEDULE FOR FINISHES.

EXTERIOR WALL: PROVIDE WESTERN ONE COAT STUCCO SYSTEM WITH SYNTHETIC FINISH OVER 1" POLYSTYRENE OVER TYVEK HOME WRAP (ESR-2375).

EXTERIOR CMU WALL:
PROVIDE WESTERN ONE COAT STUCCO SYSTEM WITH SYNTHETIC FINISH OVER 1" POLYSTYRENE ATTACH TO CMU WALL. REFER TO EXTERIOR ELEVATIONS FOR LOCATIONS.

EXTERIOR STONE VENEER:
PROVIDE STONE VENEER, AS SELECTED BY OWNER, FULL HEIGHT OVER METAL LATH OVER TYVEK HOME WRAP (ESR-2375).

EXTERIOR STONE VENEER:
PROVIDE STONE VENEER, AS SELECTED BY OWNER, FULL HEIGHT OVER CMU ACCENT COLUMNS AND KNIFE WALLS.

INTERIOR 6" STUD WALL:
PROVIDE 1-LAYER 1/2" GPDW ON EACH SIDE OF 2x6 WOOD STUDS AT 1'-4" O.C. PROVIDE SOUND INSULATION AS DIRECTED BY OWNER.

INTERIOR 2x4 STUD WALL:
PROVIDE 1-LAYER 1/2" GPDW ON EACH SIDE OF 2x4 WOOD STUDS AT 1'-4" ON CENTER. PROVIDE SOUND INSULATION AS DIRECTED BY OWNER.

INTERIOR 2x4 STUD WALL:
PROVIDE 1-LAYER 1/2" GPDW ON ONE SIDE OF 2x4 WOOD STUDS AT 1'-0" ON CENTER. PROVIDE R-13 BATT INSULATION.

INTERIOR 2x2 STUD WALL:
PROVIDE 1-LAYER 1/2" GPDW ON ONE SIDE OF 2x2 WOOD STUDS AT 1'-0" ON CENTER.

WALL BETWEEN GARAGE AND LIVABLE SPACE: PROVIDE TYVEK OR EQUAL TO BE APPLIED TO THE GARAGE SIDE OF THE WALL BENEATH DRYWALL SEPARATING THE GARAGE FROM THE LIVABLE SPACE.

BACKERS FOR WALL TILE IN TUB AND SHOWER AREAS:
PROVIDE CEMENT, FIBER-CEMENT OR GLASS MAT GYPSUM BACKERS FOR WALL TILE IN TUB AND SHOWER AREAS. SUCH WALL SURFACES SHALL EXTEND TO THE CEILING.

INTERIOR 6" STUD WALL:
60" HIGH PONY WALL. PROVIDE 1-LAYER 1/2" GPDW ON EACH SIDE OF 2x6 WOOD STUDS AT 1'-4" O.C.

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ARCHITECTURE & PLANNING

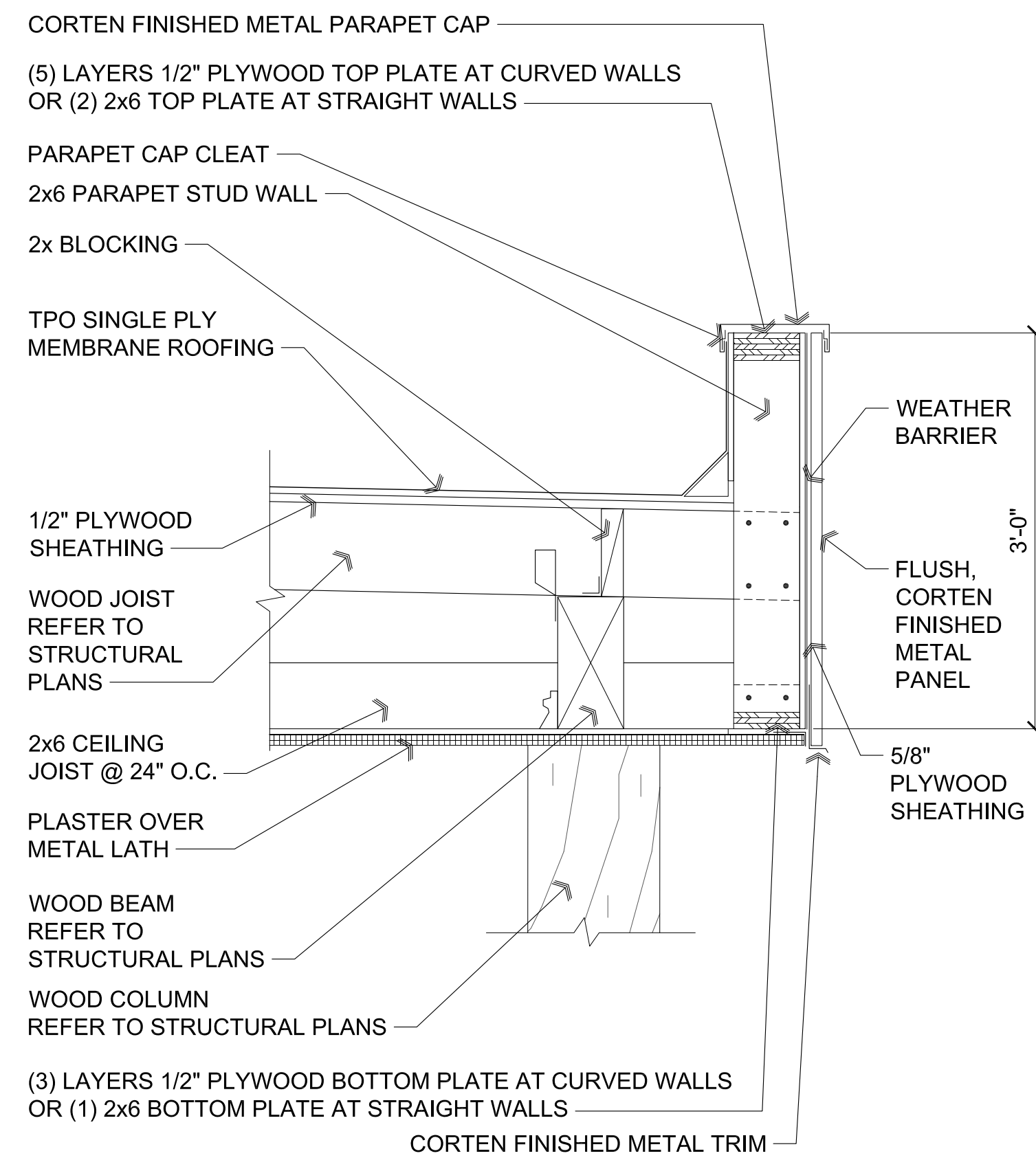
DRAWING: WALL TYPES PLAN - WEST WING AND CENTER

PROJECT:

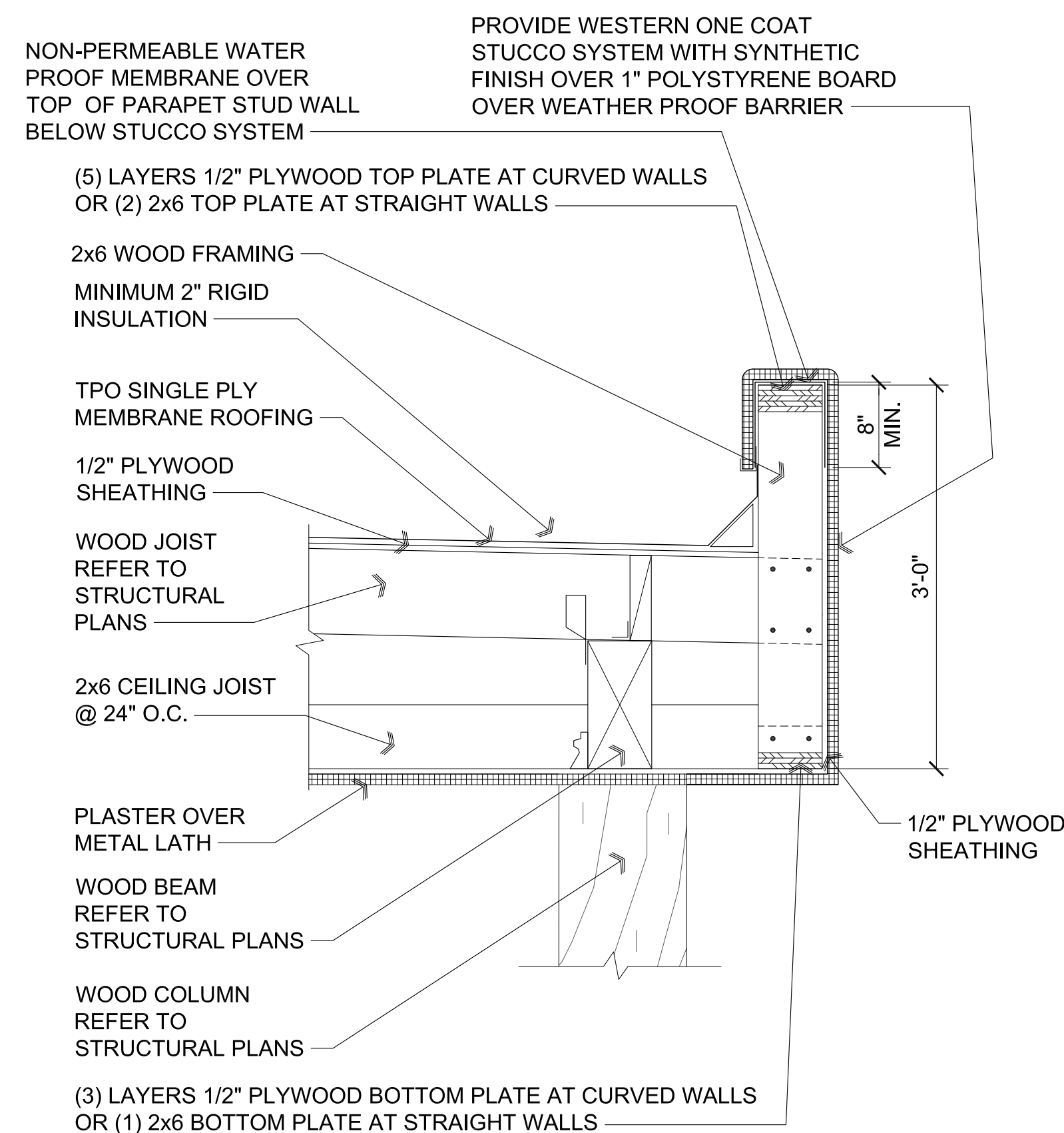
Lembke-Mellul Residence
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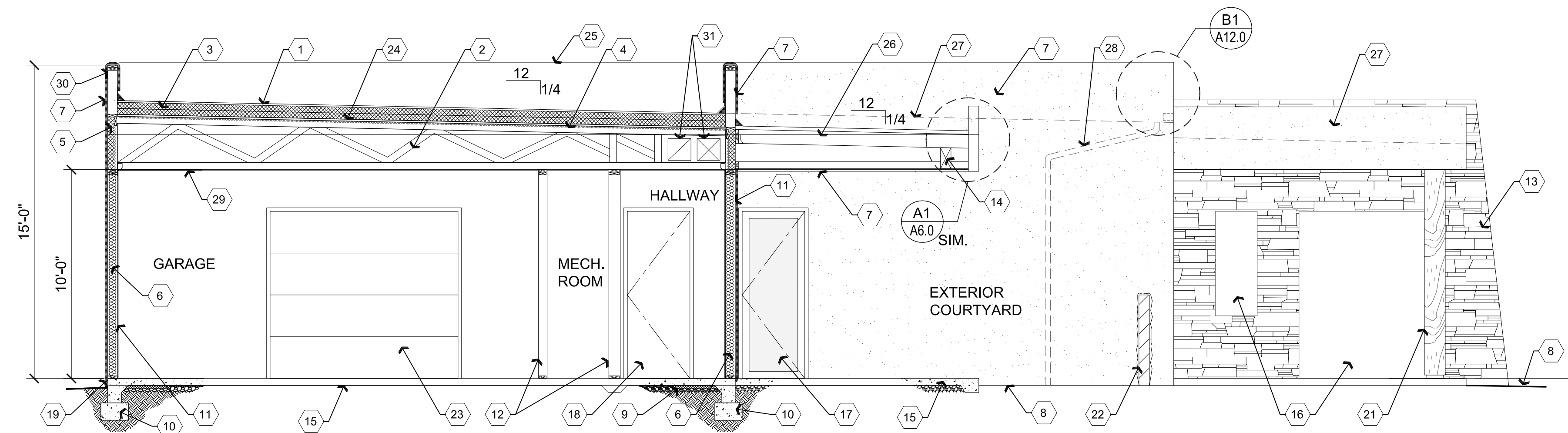
A2 Wood Joist at Wood Beam - Metal
SCALE: 1" = 1'-0"



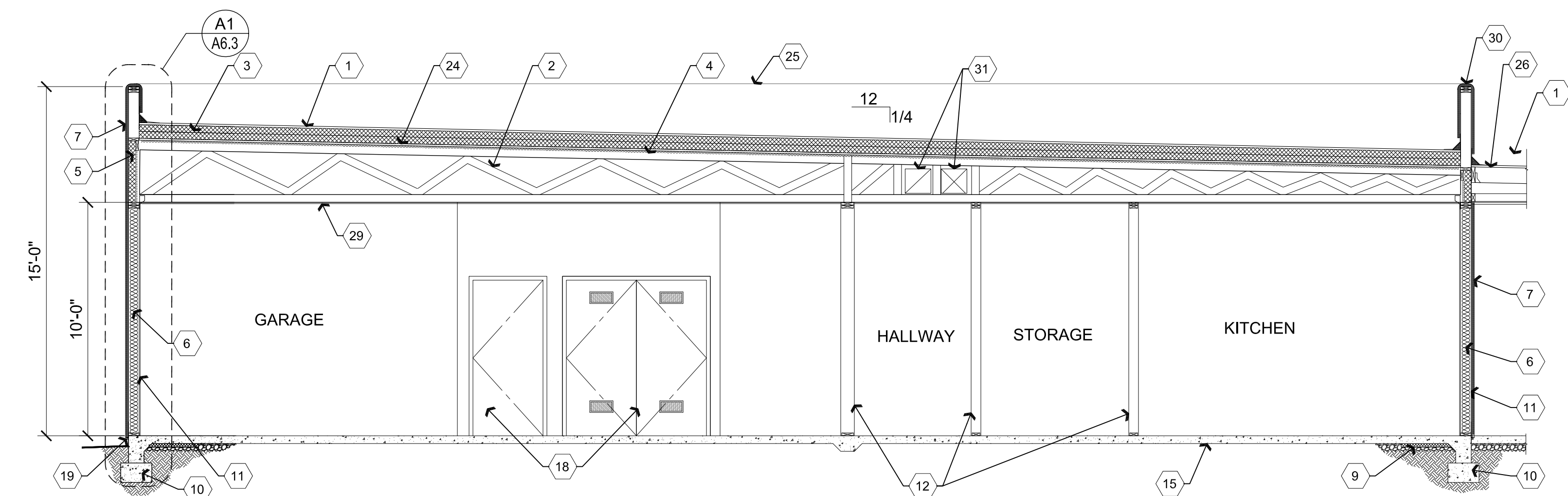
A1 Wood Joist at Wood Beam - Stucco
SCALE: 1" = 1'-0"

Descriptive Keynotes

- | | | | |
|-----|---|-----|---|
| 1. | PROVIDE TPO SINGLE PLY MEMBRANE ROOFING OVER 7/16" OSB. | 16. | EXTERIOR OPENING IN MASONRY WALL. |
| 2. | PROVIDE PRE-MANUFACTURED WOODEN ROOF TRUSS, REFER TO STRUCTURAL PLANS. | 17. | EXTERIOR DOOR, REFER TO REFERENCE FLOOR PLAN AND DOOR SCHEDULE. |
| 3. | PROVIDE 7" RIGID INSULATION (R-47.7). | 18. | INTERIOR DOOR, REFER TO REFERENCE FLOOR PLAN AND DOOR SCHEDULE. |
| 4. | PROVIDE 1" SPRAY FOAM INSULATION (R-7). | 19. | PROVIDE STUCCO WEEP SCREED 1" BELOW TOP OF CONCRETE FLOOR SLAB. |
| 5. | PROVIDE 1" SPRAY FLASH COAT FOAM INSULATION OVER 3 1/2" RIGID INSULATION. | 20. | NOT USED. |
| 6. | PROVIDE R-19 BATT INSULATION. | 21. | PROVIDE 12" ROUND WOOD COLUMN. REFER TO STRUCTURAL PLANS. |
| 7. | PROVIDE WESTERN ONE COAT STUCCO SYSTEM WITH SYNTHETIC FINISH OVER 1" POLYSTYRENE BOARD OVER TYVEK HOME WRAP (ESR-2375). | 22. | PROVIDE CMU PONY WALL WITH STONE VENEER. |
| 8. | APPROXIMATE FINISH GRADE. | 23. | PROVIDE GARAGE DOOR. REFER TO REFERENCE FLOOR PLAN AND DOOR SCHEDULE. |
| 9. | PROVIDE 2'-0" HORIZONTAL R-10 RIGID INSULATION AT SLAB/FOUNDATION. | 24. | PROVIDE PLYWOOD SHEATHING. REFER TO STRUCTURAL PLANS. |
| 10. | PROVIDE CONCRETE FOOTING, REFER TO STRUCTURAL PLANS. | 25. | LINE OF PARAPET BEYOND. |
| 11. | EXTERIOR WALL, REFER TO WALL TYPES PLAN FOR TYPE OF CONSTRUCTION. | 26. | ROOF JOIST. REFER TO STRUCTURAL PLANS. |
| 12. | INTERIOR WALL, REFER TO WALL TYPES PLAN. | 27. | LINE OF ROOF BEYOND. |
| 13. | PROVIDE STONE VENEER OVER MASONRY WALL. REFER TO STRUCTURAL PLANS. | 28. | 3" DRAIN LINE. REFER TO ROOF DRAINAGE PLAN. |
| 14. | STRUCTURAL BEAM, REFER TO STRUCTURAL PLANS. | 29. | 1/2" GPDW CEILING. |
| 15. | CONCRETE SLAB OVER AGGREGATE BASE COURSE, REFER TO STRUCTURAL PLANS. | 30. | NON-PERMEABLE WATER PROOF MEMBRANE OVER TOP OF PARAPET STUD WALL BELOW STUCCO SYSTEM. |
| | | 31. | MECHANICAL DUCTWORK. REFER TO MECHANICAL PLANS. |



B2 Building Section



B1 Building Section

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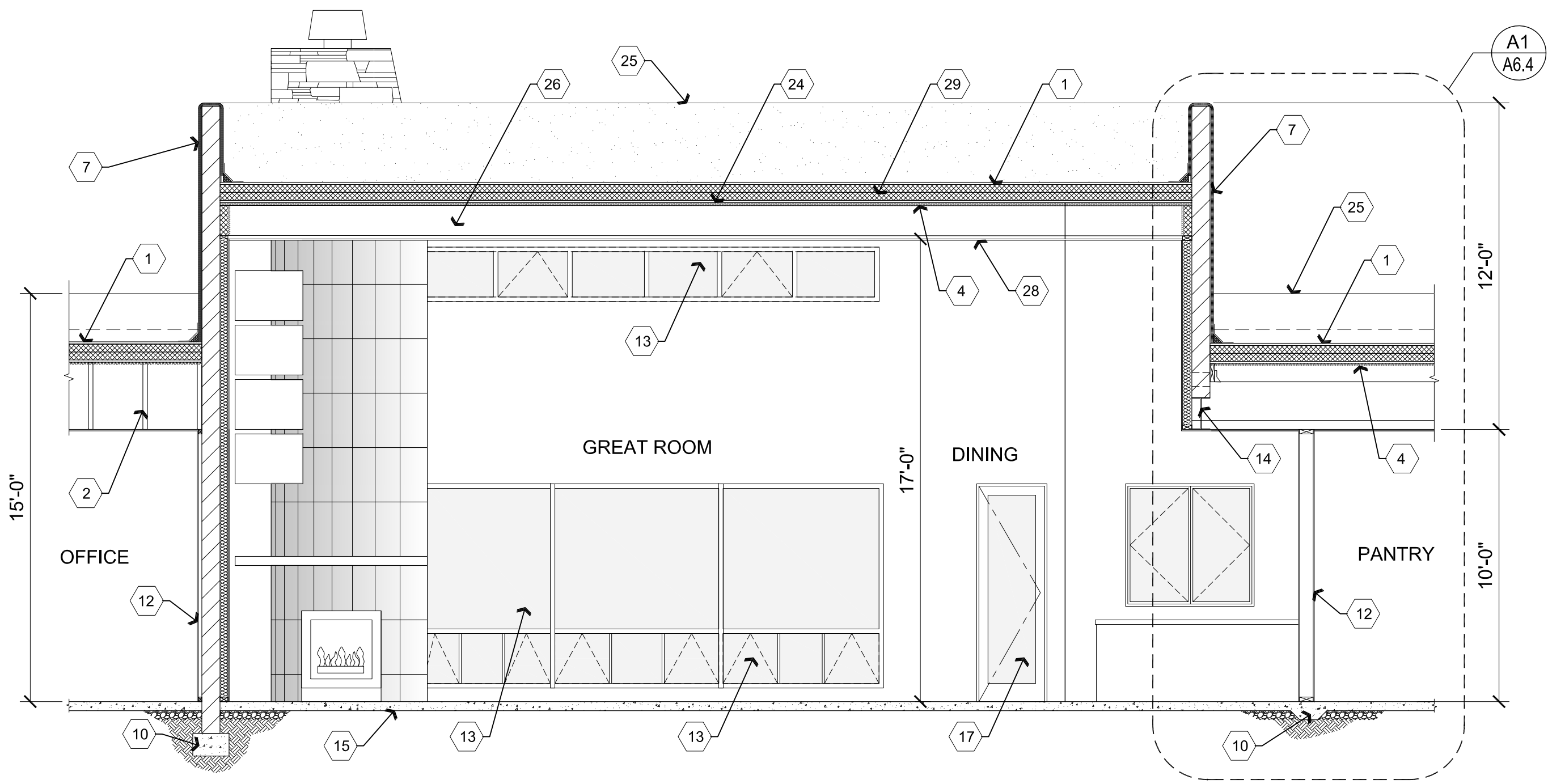
DRAWING: POLYMER ELEMENTS

ADDRESS:
12255 Slate Rd.
Prescott, AZ 86305

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DATE JANUARY 27, 2016
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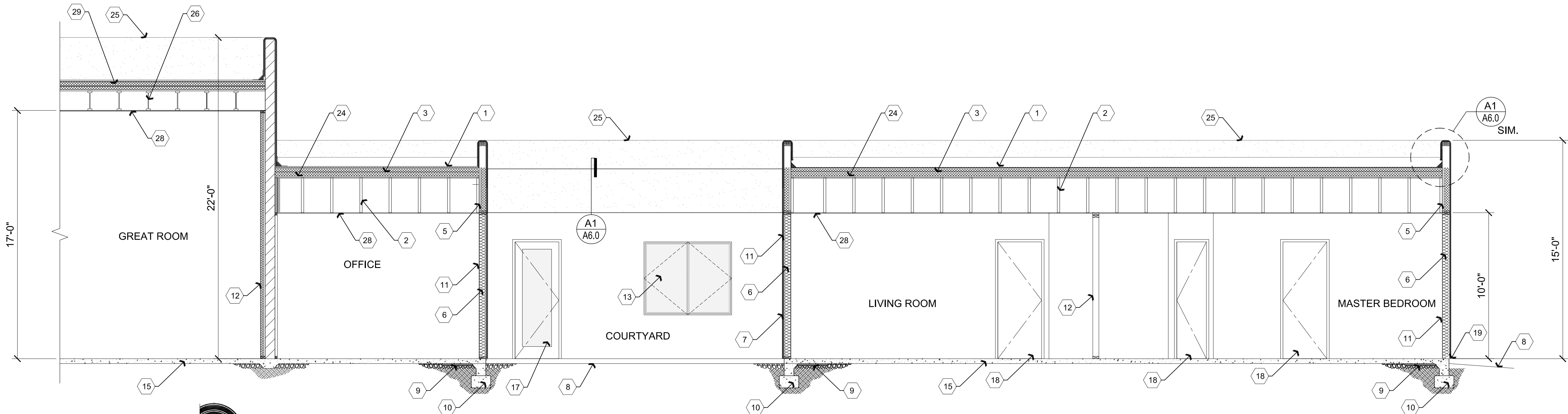
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A2 Building Section

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



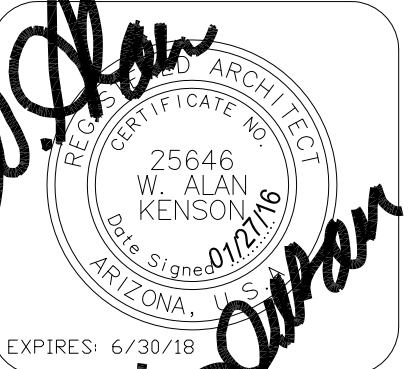
A1 Building Section

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

- ### Descriptive Keynotes
1. PROVIDE TPO SINGLE PLY MEMBRANE ROOFING OVER 7/16" OSB.
 2. PROVIDE PRE-MANUFACTURED WOODEN ROOF TRUSS, REFER TO STRUCTURAL PLANS.
 3. PROVIDE 7" RIGID INSULATION (R-47.7).
 4. PROVIDE 1" SPRAY FOAM INSULATION (R-7).
 5. PROVIDE 1" SPRAY FLASH COAT FOAM INSULATION OVER 3 1/2" RIGID INSULATION..
 6. PROVIDE R-19 BATT INSULATION.
 7. PROVIDE WESTERN ONE COAT STUCCO SYSTEM WITH SYNTHETIC FINISH OVER 1" POLYSTYRENE BOARD OVER TYVEK HOME WRAP (ESR-2375).
 8. APPROXIMATE FINISH GRADE.
 9. PROVIDE 2'-0" HORIZONTAL R-10 RIGID INSULATION AT SLAB/FOUNDATION.
 10. PROVIDE CONCRETE FOOTING, REFER TO STRUCTURAL PLANS.
 11. EXTERIOR WALL, REFER TO WALL TYPES PLAN FOR TYPE OF CONSTRUCTION.
 12. INTERIOR WALL, REFER TO WALL TYPES PLAN.
 13. WINDOW, REFER TO REFERENCE FLOOR PLAN AND WINDOW TYPES.
 14. STRUCTURAL BEAM, REFER TO STRUCTURAL PLANS.
 15. CONCRETE SLAB OVER AGGREGATE BASE COURSE, REFER TO STRUCTURAL PLANS.
 16. NOT USED.
 17. EXTERIOR DOOR, REFER TO REFERENCE FLOOR PLAN AND DOOR SCHEDULE.
 18. INTERIOR DOOR, REFER TO REFERENCE FLOOR PLAN AND DOOR SCHEDULE.
 19. PROVIDE STUCCO WEEP SCREED 1" BELOW TOP OF CONCRETE FLOOR SLAB.
 20. NOT USED.
 21. NOT USED.
 22. NOT USED.
 23. NOT USED.
 24. PROVIDE 1/2" PLYWOOD.
 25. LINE OF PARAPET BEYOND.
 26. PROVIDE ROOF JOIST. REFER TO STRUCTURAL PLANS.
 27. NOT USED
 28. 1/2" GPDW CEILING.
 29. PROVIDE 7" MINIMUM TAPERED RIGID INSULATION. REFER TO ROOF PLAN.

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ARCHITECTURE & PLANNING

DRAWING: BUILDING SECTIONS

PROJECT: Lembe-Mellul Residence
12255 Slate Rd.
Prescott, AZ 86305

DRAWN BY
L.O.

CHECKED BY
W.A.K.

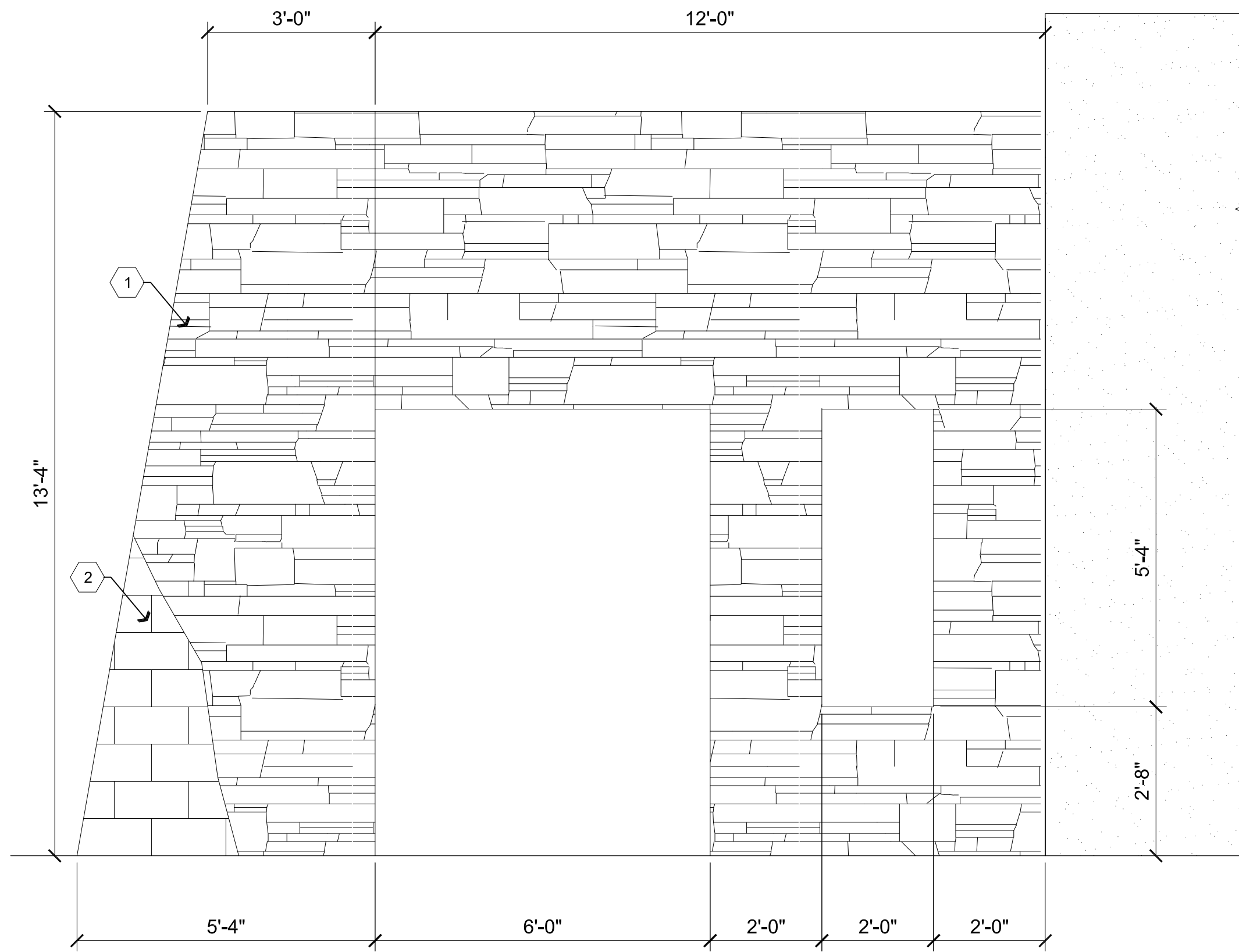
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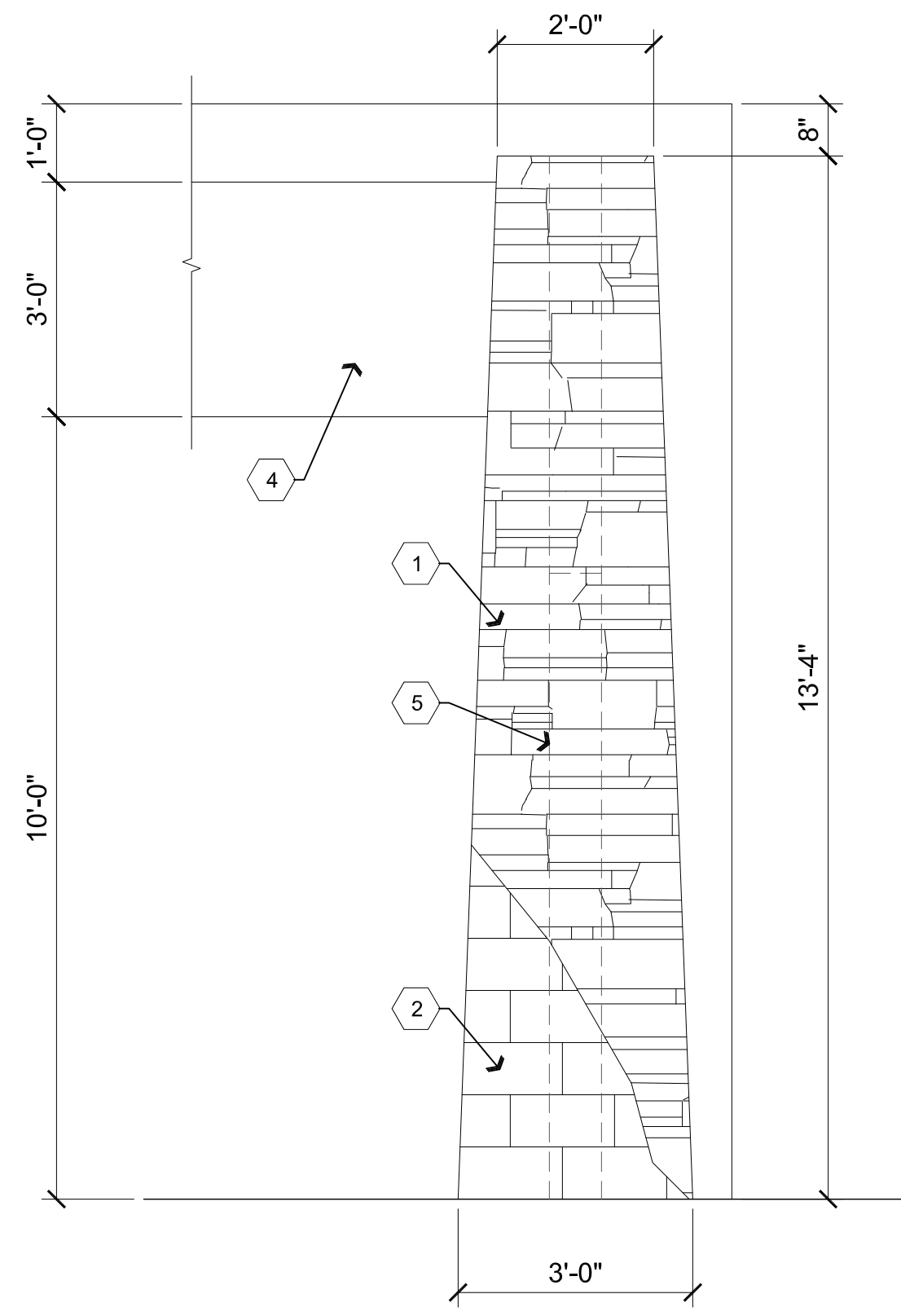
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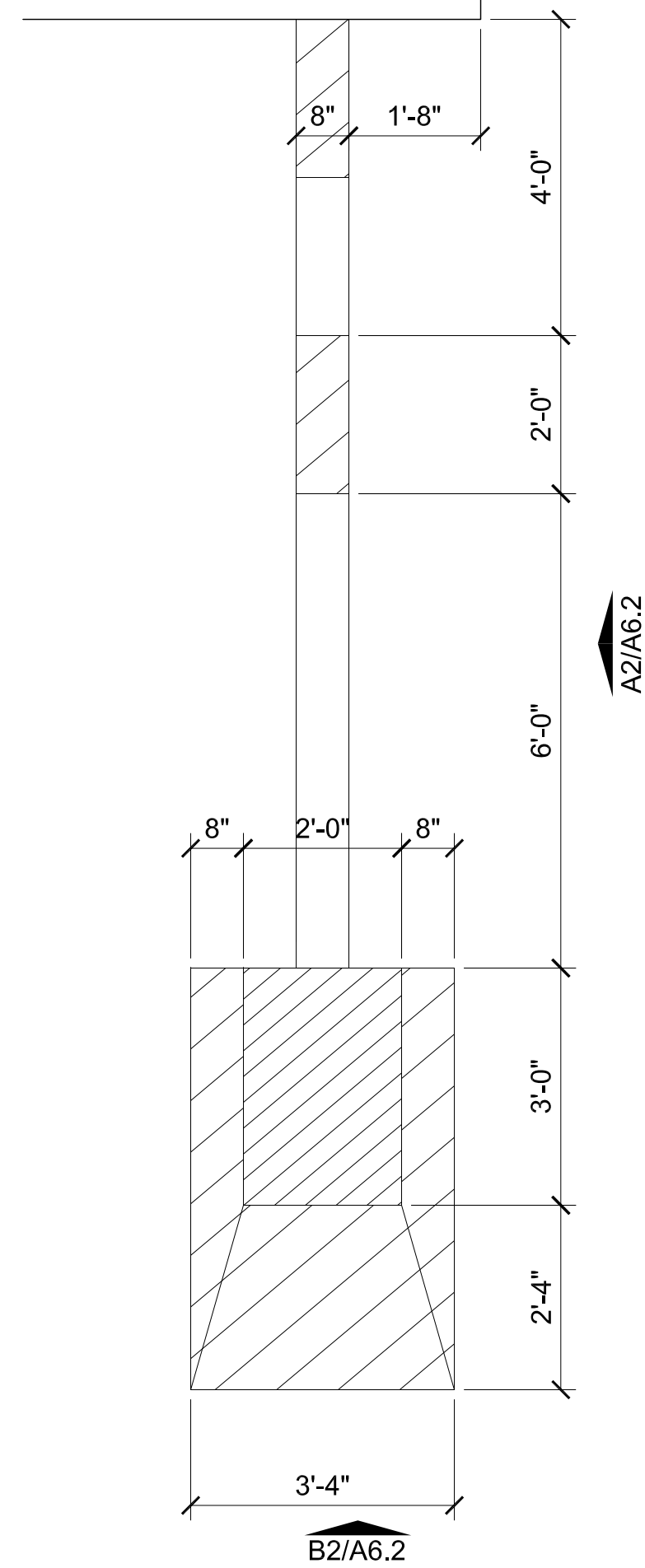
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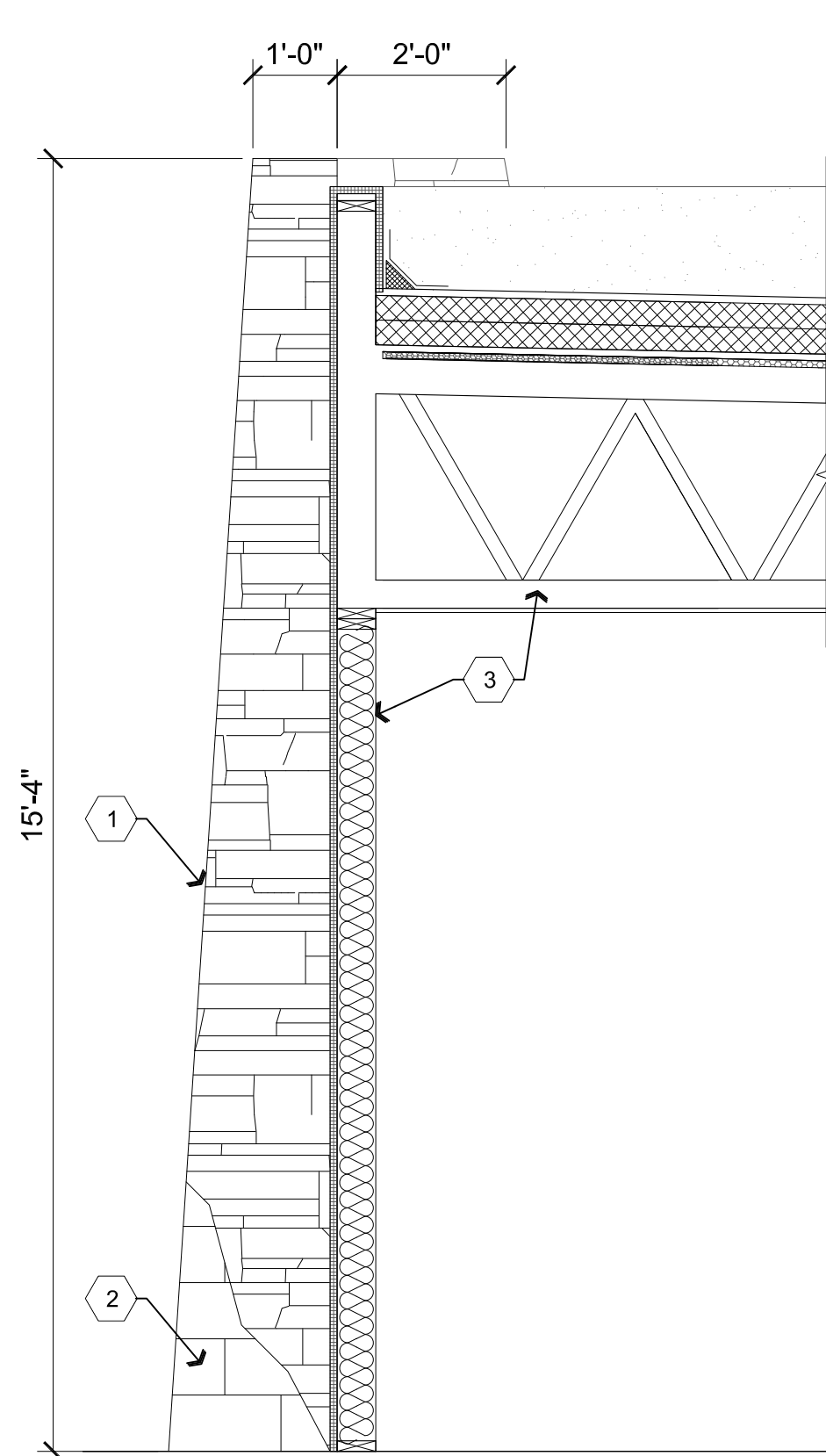
A2 Elevation
Scale: 1/2"=1'-0"



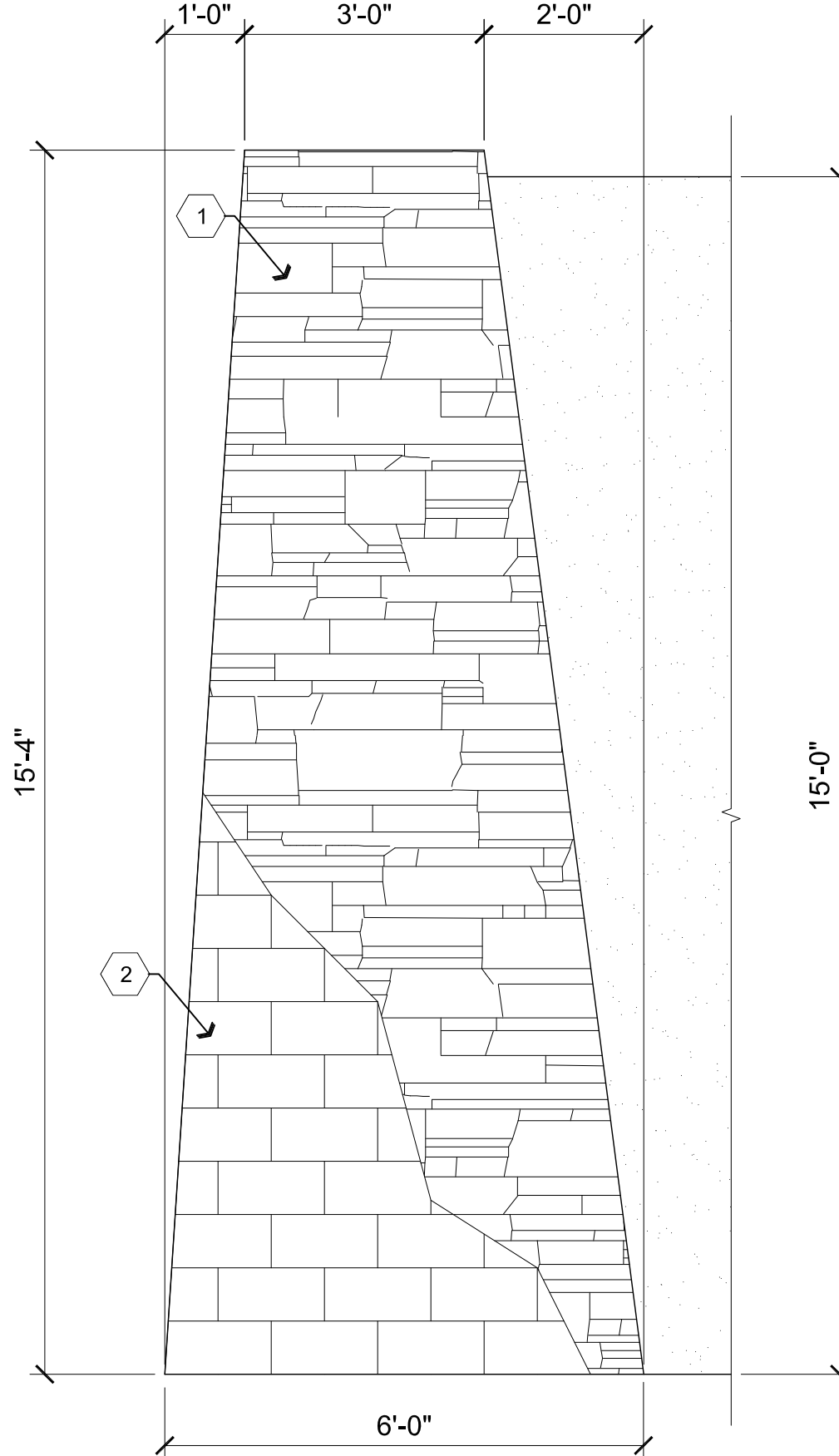
B2 Elevation
Scale: 1/2"=1'-0"



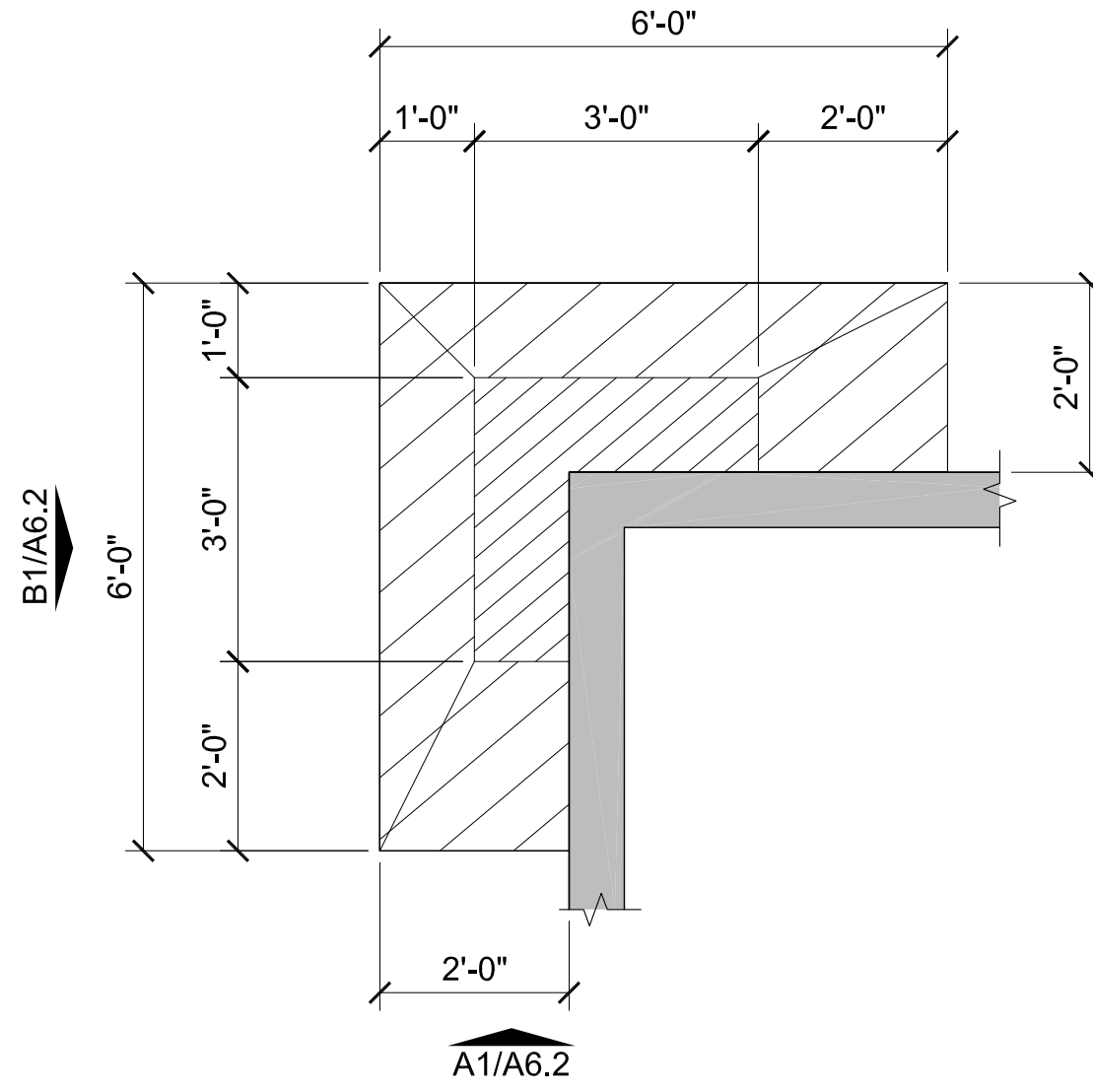
C2 Plan View From Top
Scale: 1/2"=1'-0"



A1 Elevation / Section
Scale: 1/2"=1'-0"



B1 Elevation
Scale: 1/2"=1'-0"



C1 Plan View From Top
Scale: 1/2"=1'-0"

Descriptive Keynotes

1. STONE VENEER OVER CMU.
2. 8"x8"x16" CMU. REFER TO STRUCTURAL PLANS.
3. REFER TO BUILDING SECTIONS, WALL SECTIONS AND STRUCTURAL PLANS FOR ROOF, CEILING AND WALL CONSTRUCTION.
4. FASCIA SYSTEM. REFER TO EXTERIOR ELEVATIONS.
5. WALL BEYOND.

REVISIONS	BY

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ARCHITECTURE & PLANNING

DRAWING: BUILDING DETAILS
PROJECT: Lembke-Mellul Residence
12255 State Rd.
Prescott, AZ 86305

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CHECKED BY W.A.K.
DATE JANUARY 27, 2016
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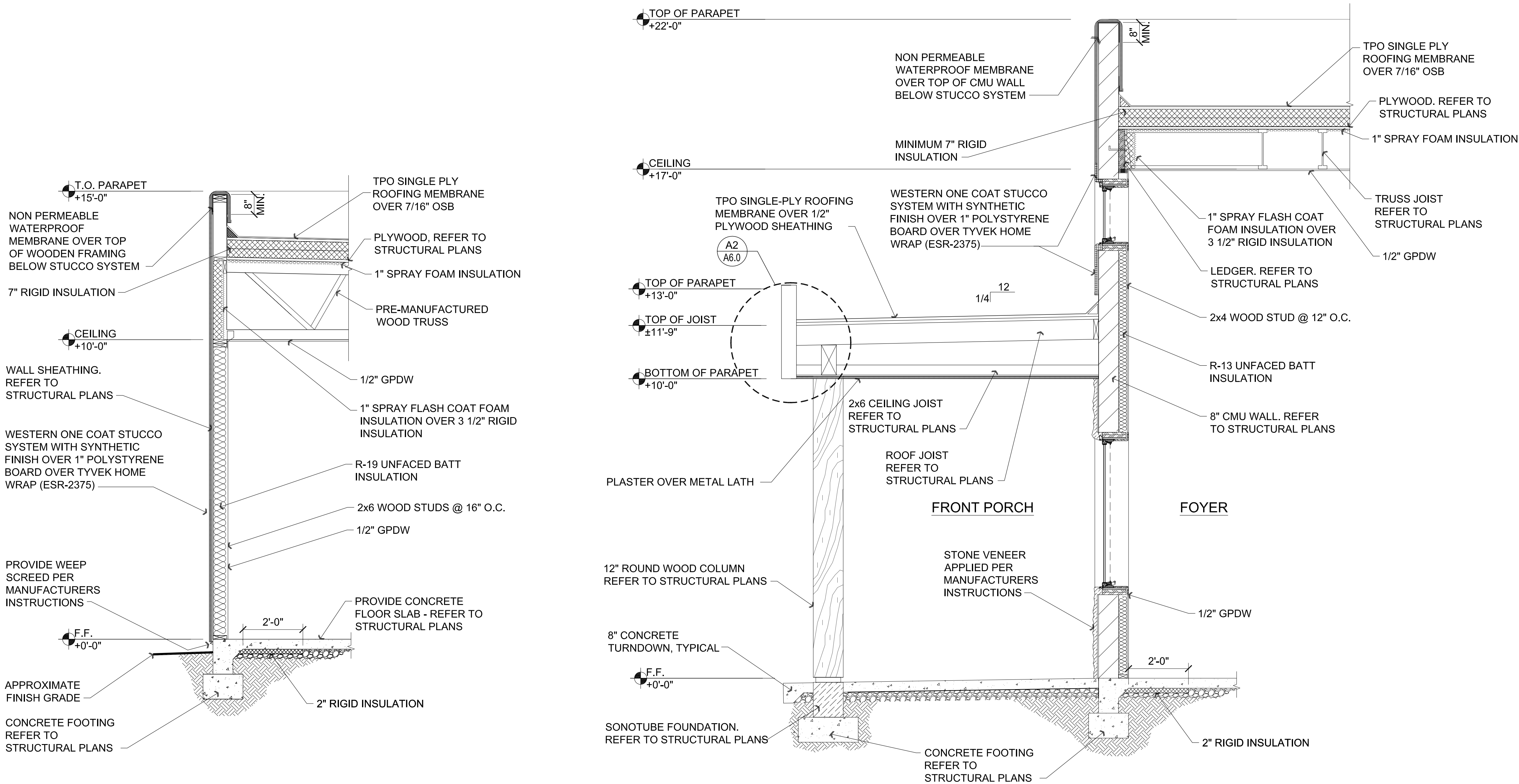
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A1 Typical Wall Section

Scale: 1/2"=1'-0"

A2 Wall Section

Scale: 1/2"=1'-0"



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ARCHITECTURE & PLANNING

DRAWING: WALL SECTIONS

PROJECT: Lembke-Mellul Residence
12255 Slate Rd.
Prescott, AZ 86305

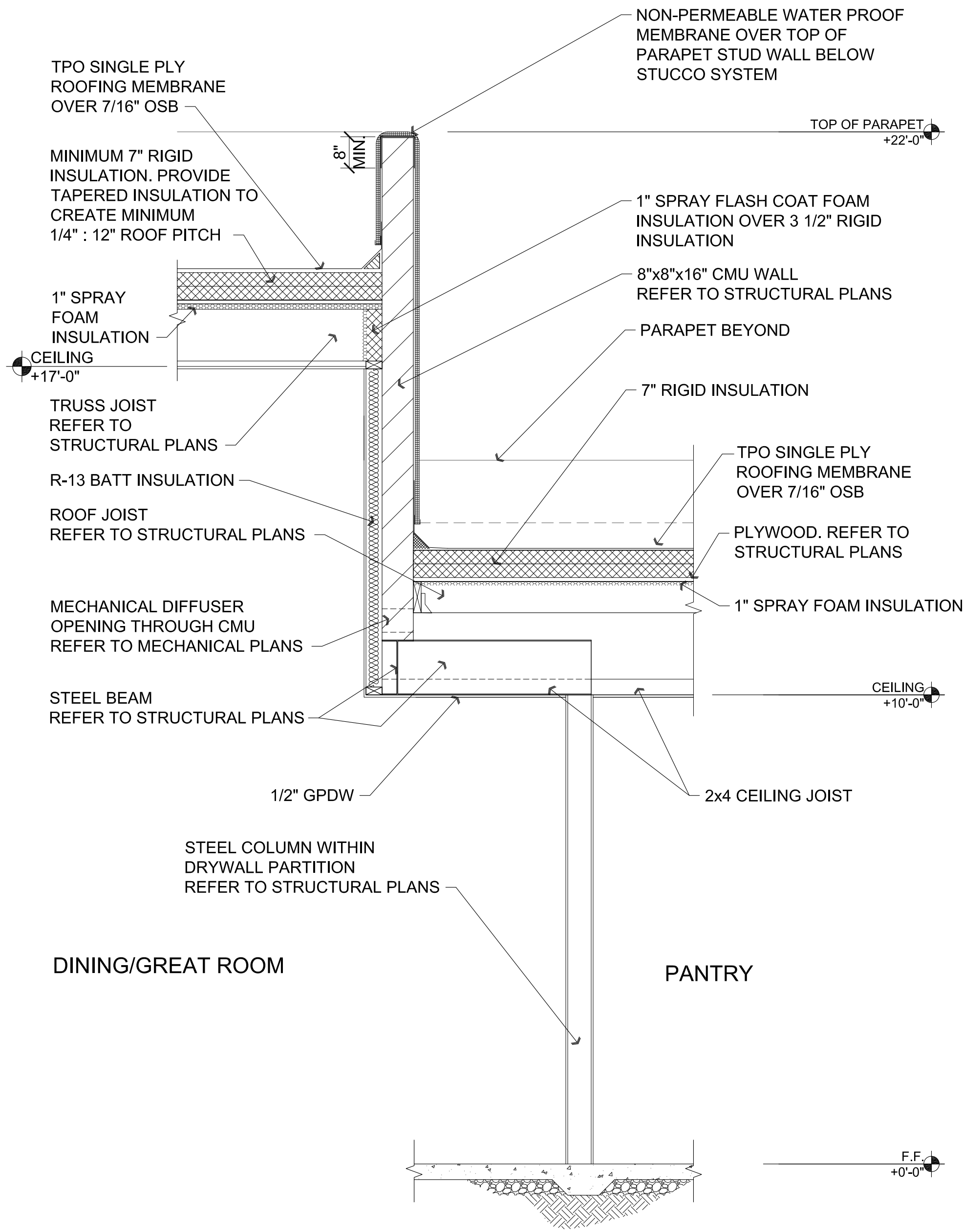
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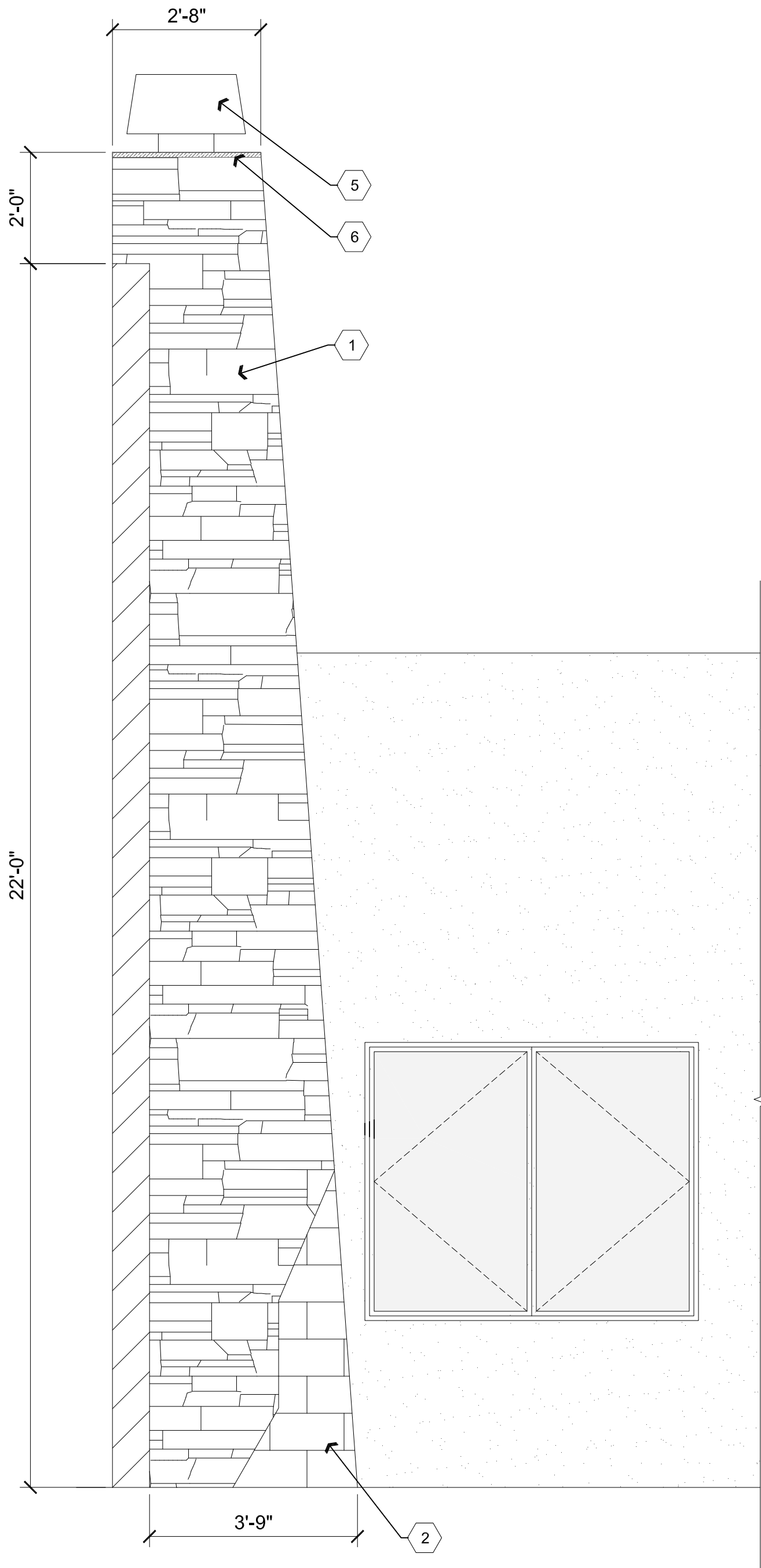
A1 Wall Section

Scale: 1/2"=1'-0"



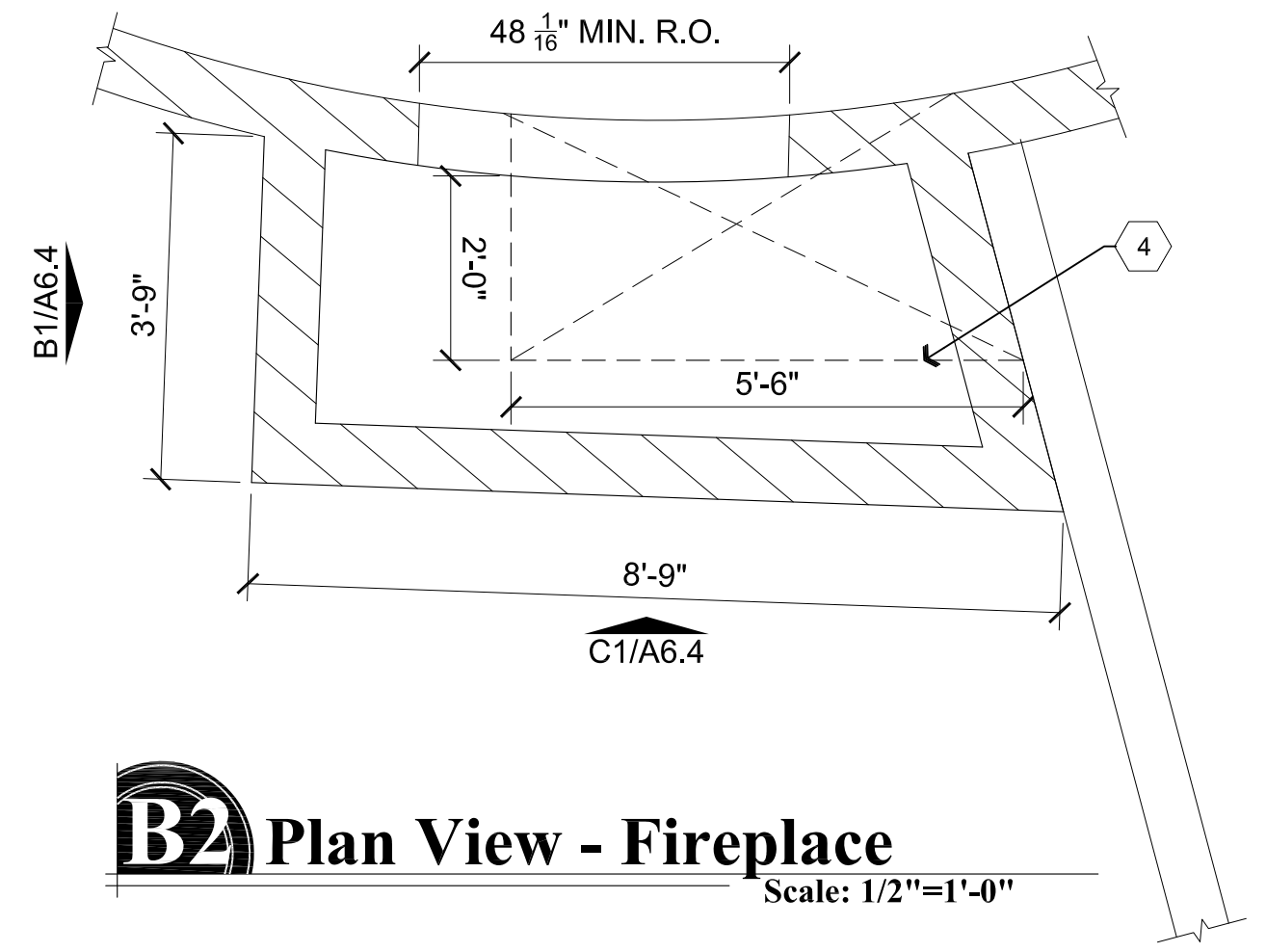
B1 Elevation/Section Fireplace

Scale: 1/2"=1'-0"



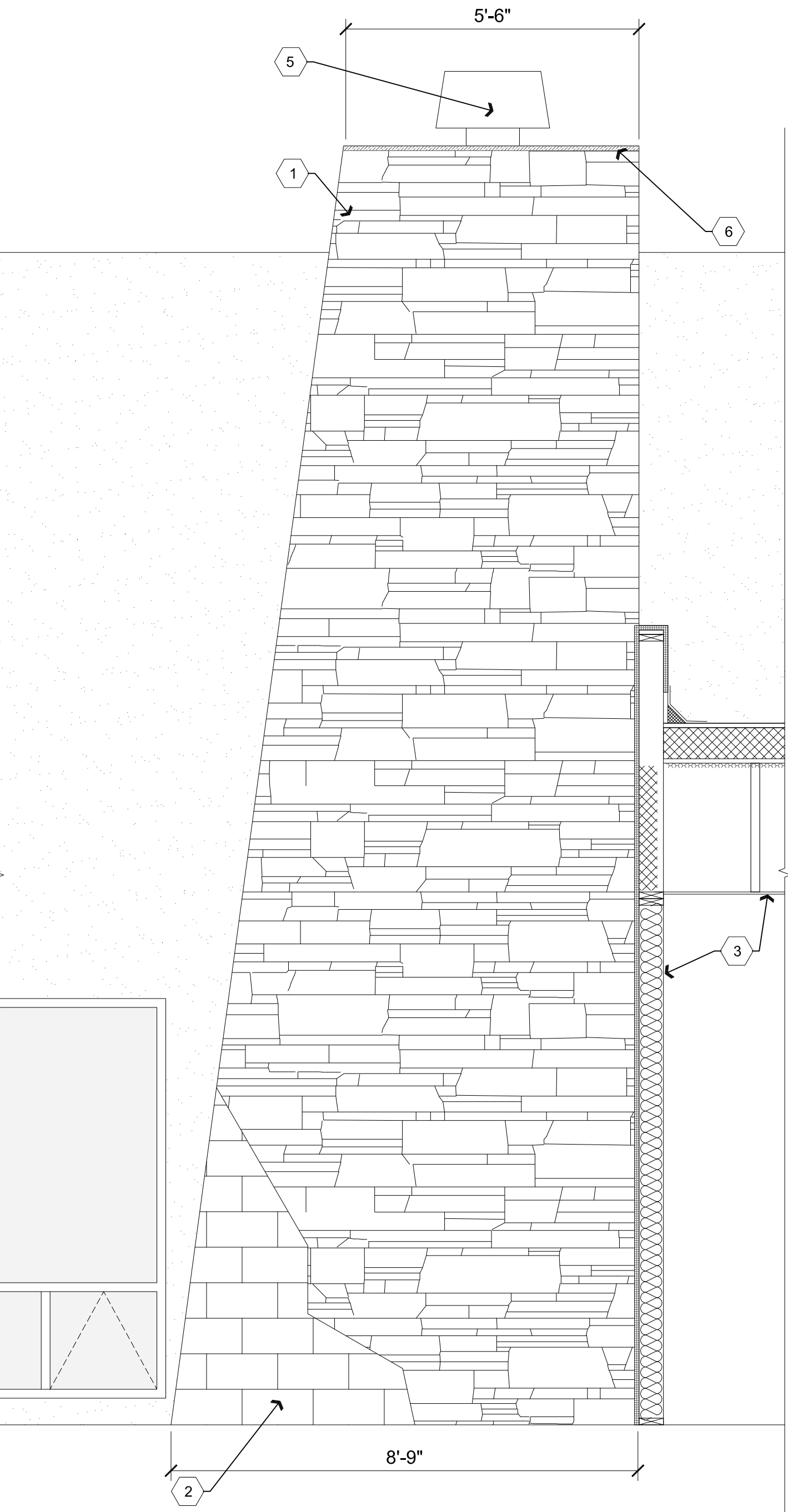
B2 Plan View - Fireplace

Scale: 1/2"=1'-0"



Descriptive Keynotes

1. STONE VENEER OVER METAL LATH.
2. 8"x8"x16" CMU.
3. REFER TO BUILDING PLANS, SECTIONS, WALL SECTIONS AND STRUCTURAL PLANS FOR ROOF, CEILING AND WALL CONSTRUCTION.
4. DASHED LINES INDICATE TOP OF CHIMNEY.
5. DECORATIVE CHIMNEY FLUE CAP.
6. PROVIDE SHEET METAL CAP.

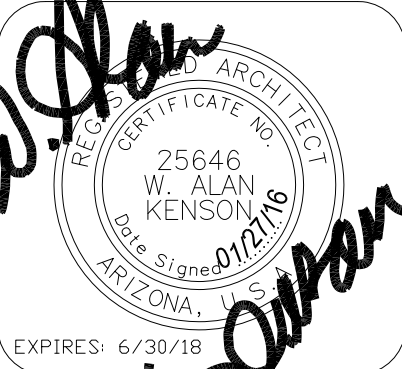


C1 Elevation/Section Fireplace

Scale: 1/2"=1'-0"

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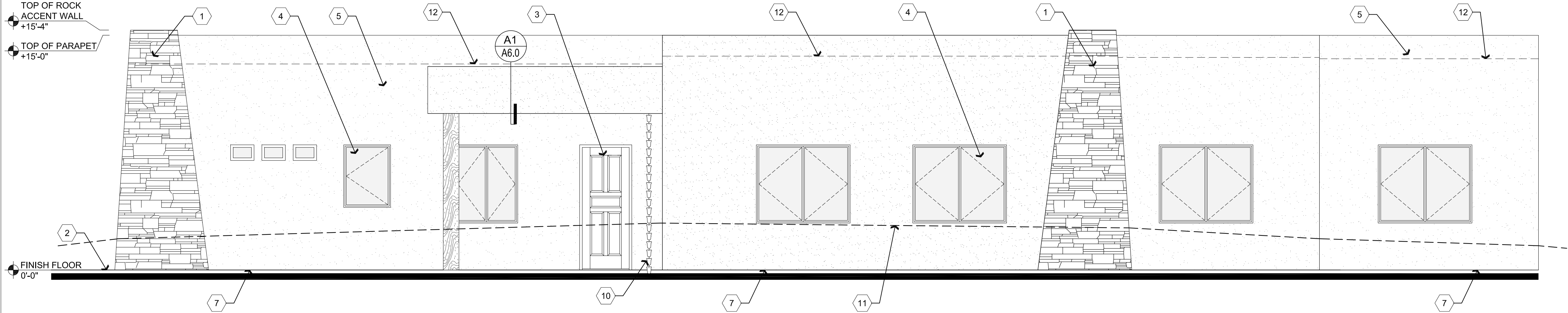
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email: waka@cableone.net
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DRAWING: WALL SECTIONS

PROJECT: Lembke-Mellul Residence
12255 Slate Rd.
Prescott, AZ 86305

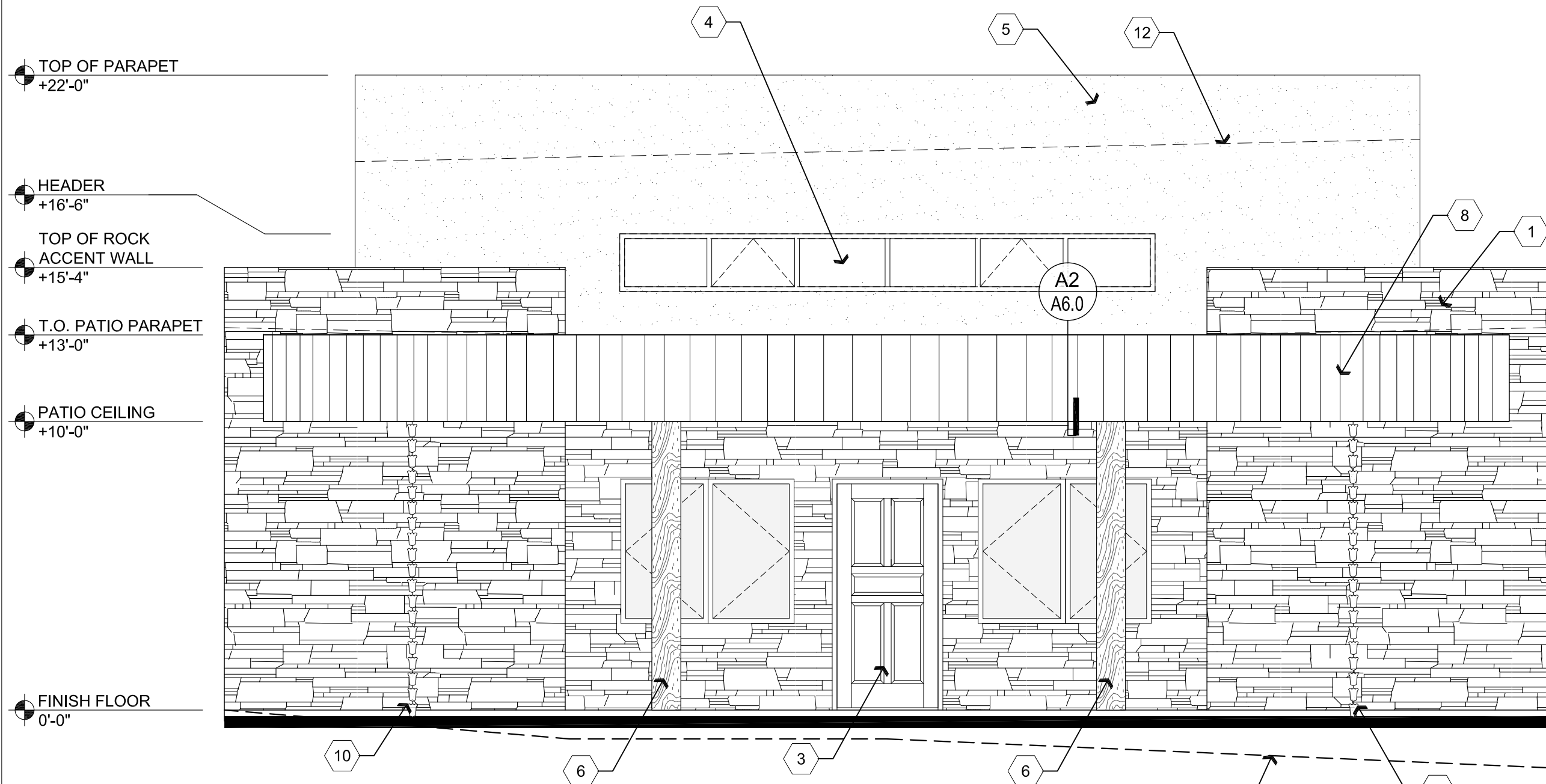
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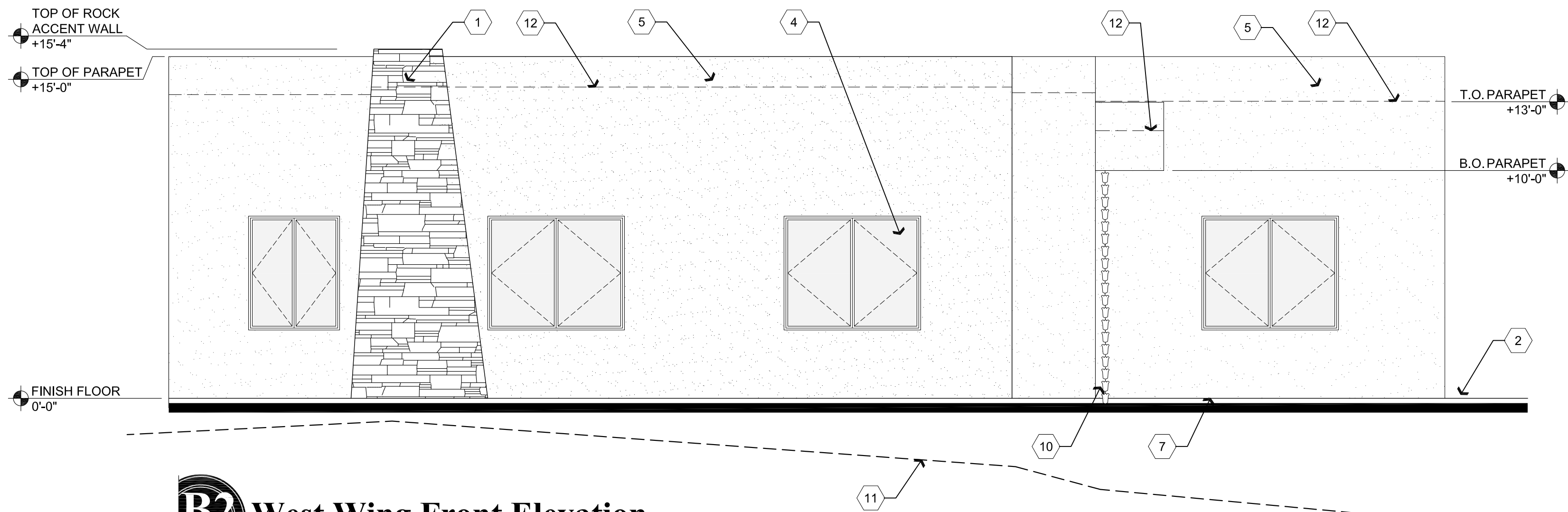
A3 East Wing Front Elevation

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



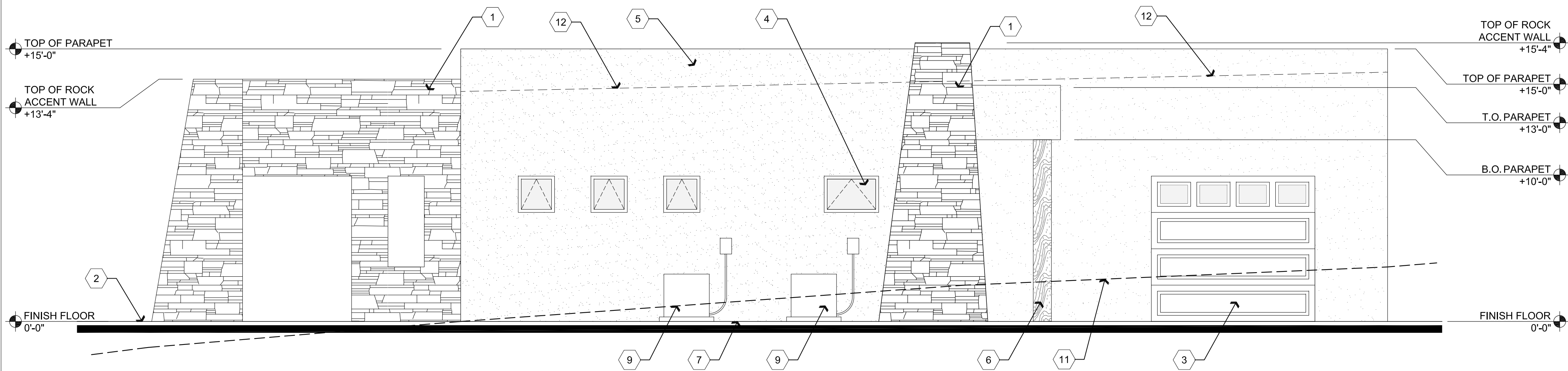
A2 Center Front Elevation

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



B2 West Wing Front Elevation

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



A1 East Wing Side Elevation

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

Descriptive Keynotes

1. STONE VENEER FINISH.
2. FINISH GRADE TO SLOPE AWAY FROM STRUCTURE.
3. EXTERIOR DOOR. REFER TO REFERENCE FLOOR PLAN AND DOOR SCHEDULE.
4. EXTERIOR WINDOW. REFER TO REFERENCE FLOOR PLAN AND WINDOW TYPES.
5. PROVIDE WESTERN ONE COAT STUCCO SYSTEM WITH SYNTHETIC FINISH OVER 1" POLYSTYRENE OVER TYVEK HOME WRAP (ESR-2375).
6. PROVIDE 12" ROUND WOOD COLUMNS. REFER TO STRUCTURAL PLANS.
7. PROVIDE STUCCO WEEP SCREED 1" BELOW TOP OF CONCRETE FLOOR SLAB.
8. CORTEN FASCIA METAL PANEL.
9. HVAC CONDENSER ON PRE-MANUFACTURED PAD.
10. RAIN CHAIN.
11. EXISTING GROUND ELEVATION PRIOR TO GRADING OF THE SITE.
12. PROPOSED ROOF LINE BEHIND PARAPETS.

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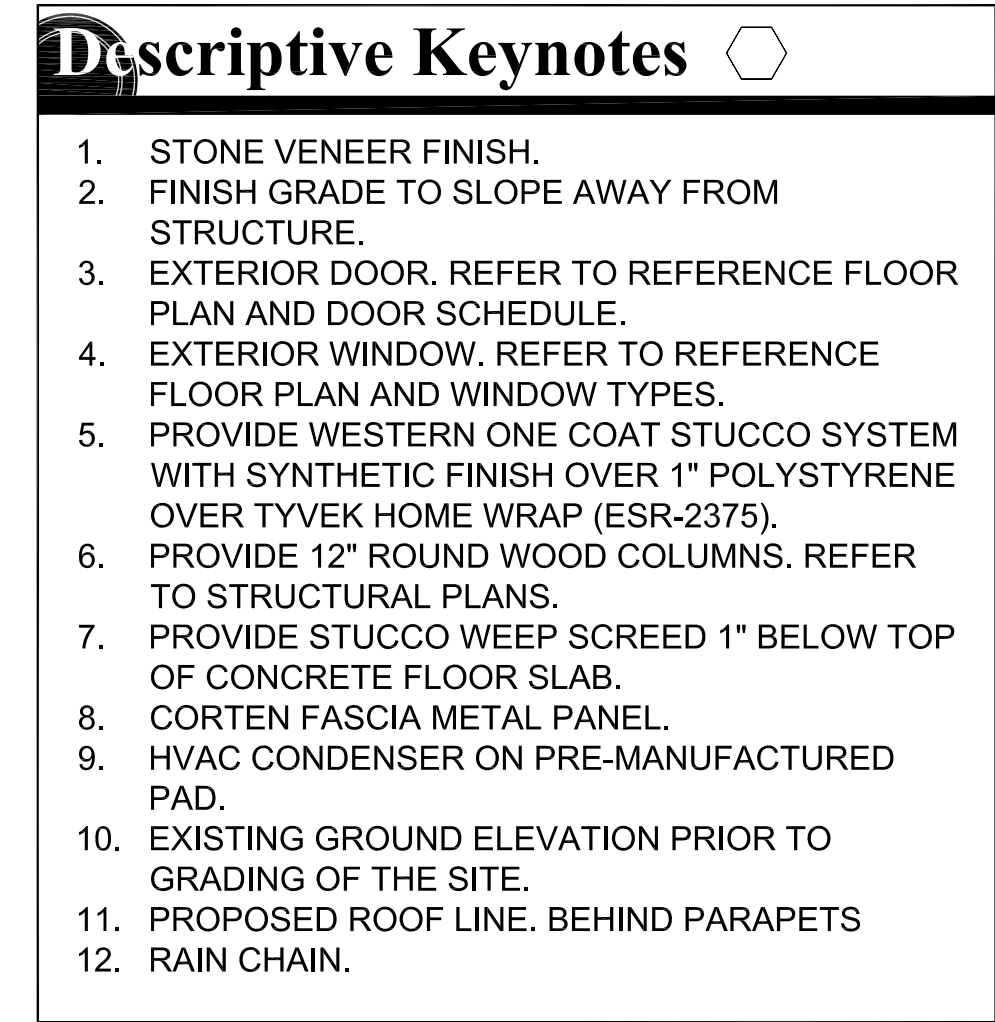


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ARCHITECTURE & PLANNING

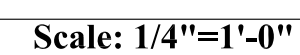
DRAWING: EXTERIOR ELEVATIONS
PROJECT: Lembke-Mellul Residence
12255 Slate Rd.
Prescott, AZ 86305

DRAWN BY L.O.
CHECKED BY W.A.K.
DATE JANUARY 27, 2016
SCALE AS NOTED
JOB NO. 674
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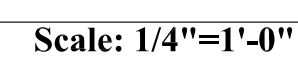
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Scale: 1/4"=1'-0"

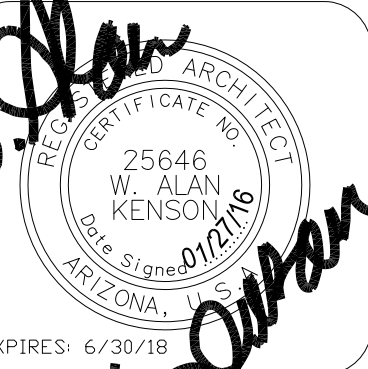


Scale: 1/4"=1'-0"



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TECTURE & PLANNING

ARCHITECTURE & PLANNING

DRAWING. EXTERIOR ELEVATIONS

Lembke-Mellul Residence
12255 Slate Rd.
Prescott, AZ 86305

PROJECT:

AWN BY
L.O.
CKED BY
W.A.K.

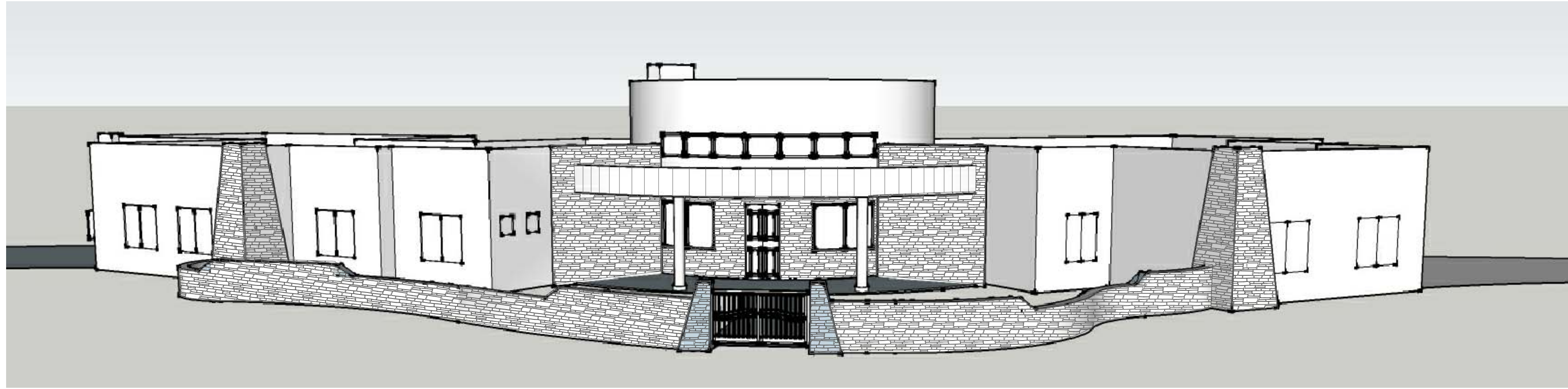
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DB NO.
674

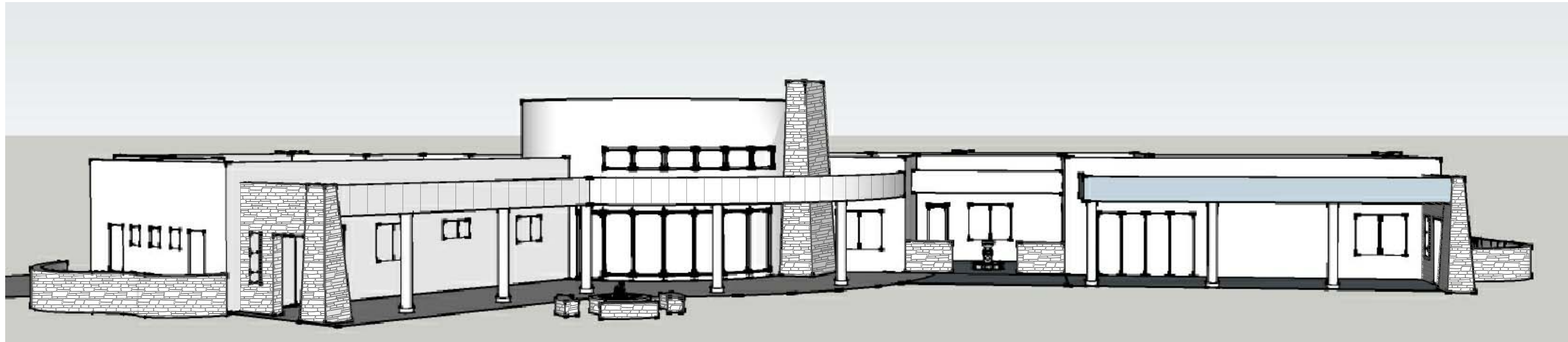
ET

A7.1



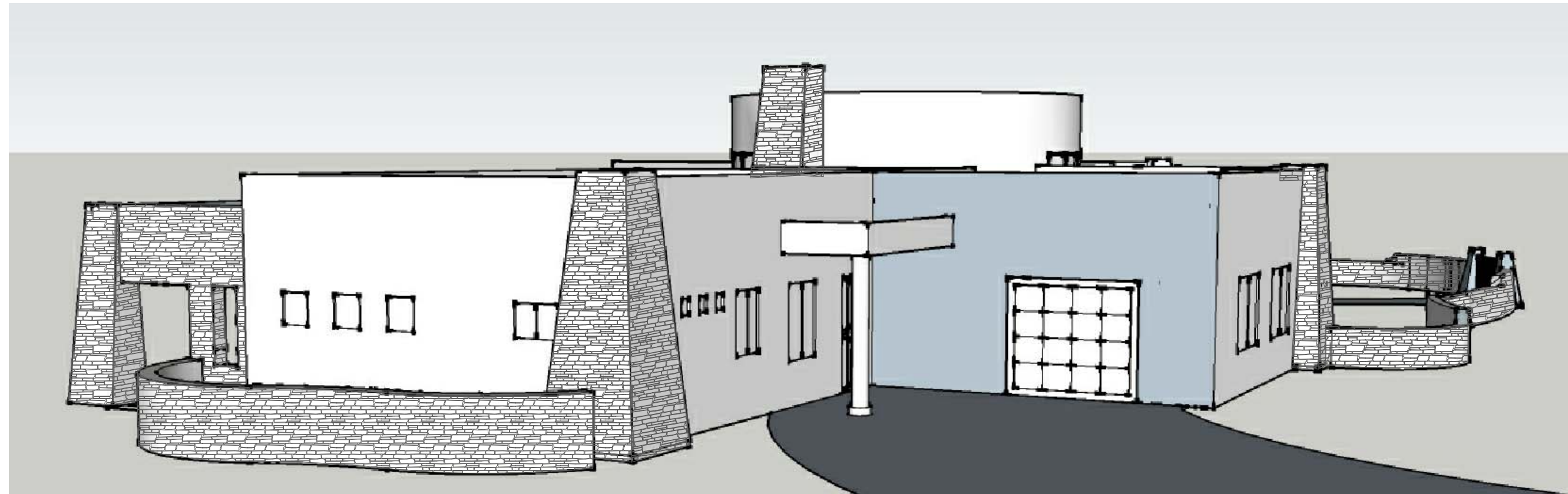
A3 North View

Scale: n.t.s.



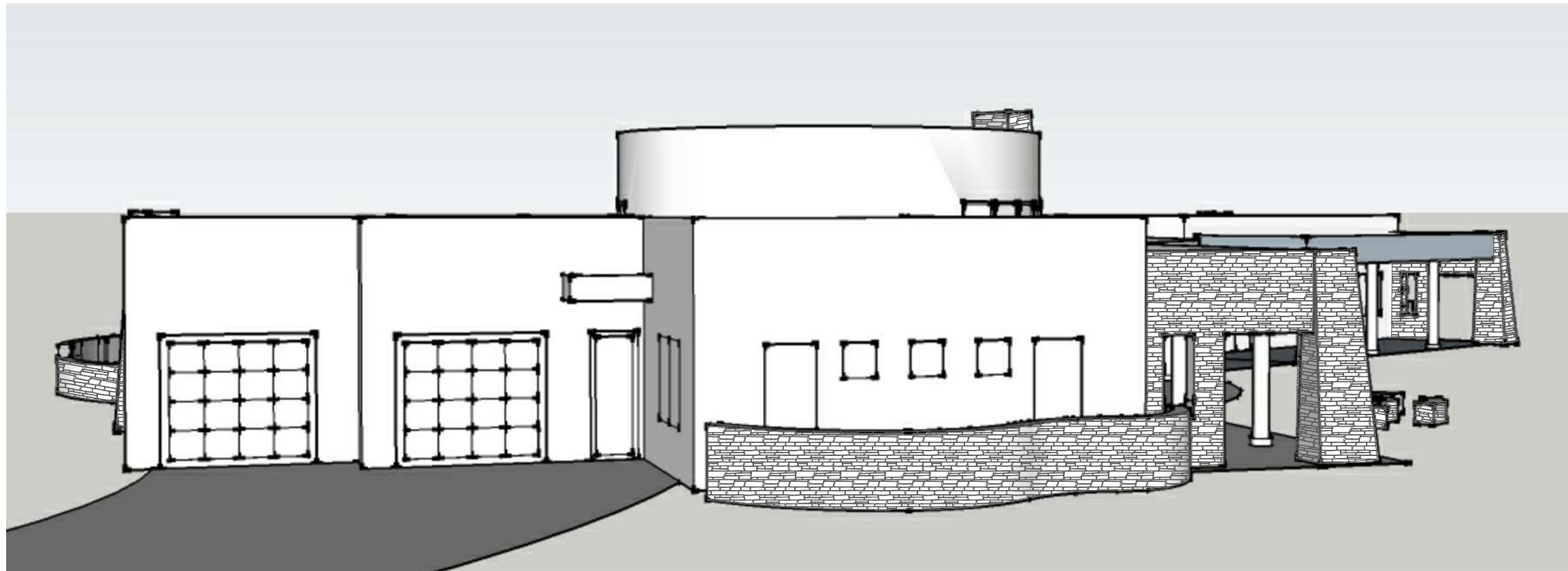
A2 South View

Scale: n.t.s.



A1 East View

Scale: n.t.s.



B1 West View

NOTE: REFER TO EXTERIOR
ELEVATION SHEETS FOR NOTES.

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ARCHITECTURE & PLANNING

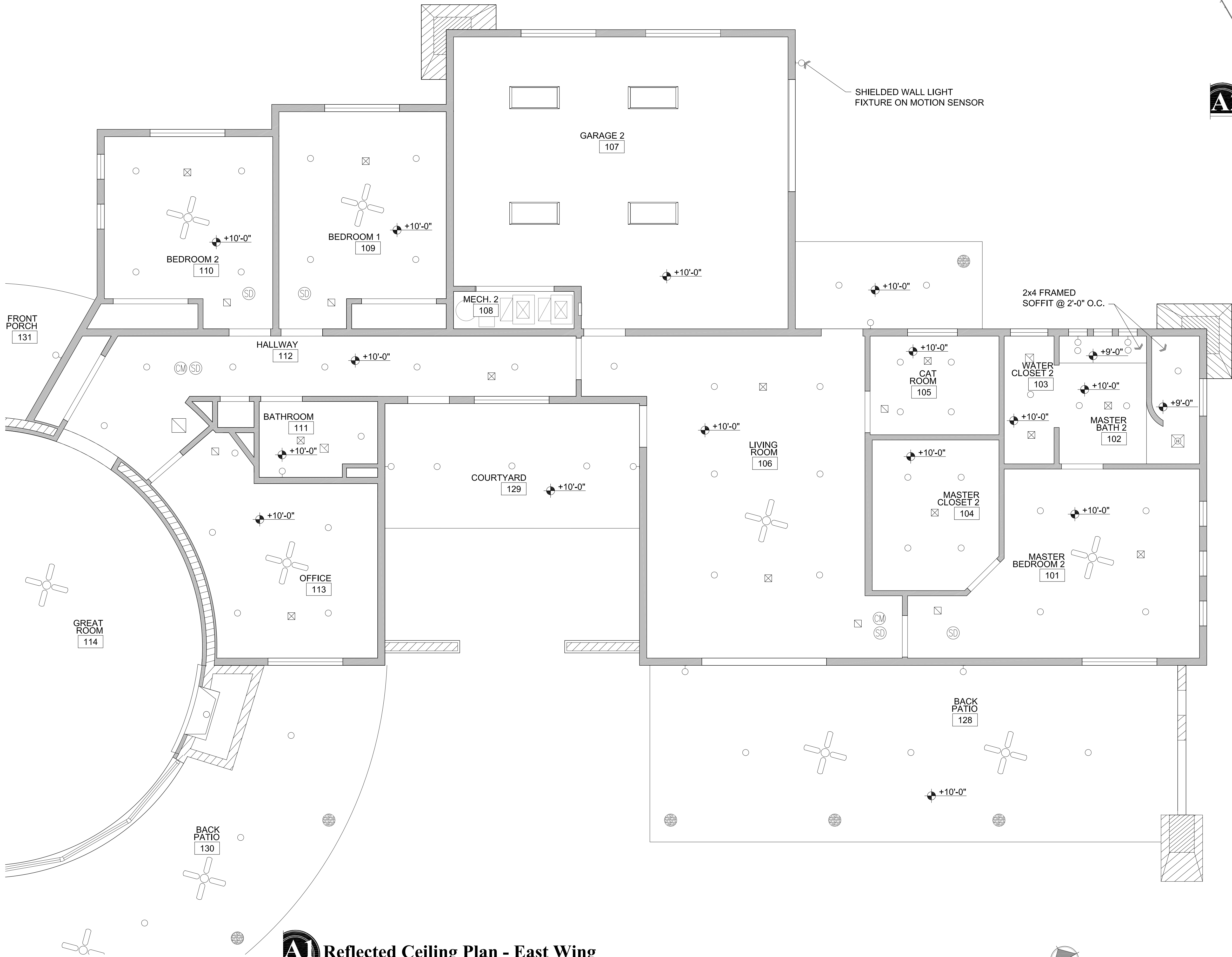
DRAWING: 3 DIMENSIONAL EXTERIOR ELEVATIONS

PROJECT: Lembke-Mellul Residence
12255 Slate Rd.
Prescott, AZ 86305

DRAWN BY L.O.
CHECKED BY W.A.K.
DATE JANUARY 27, 2016
SCALE AS NOTED
JOB NO. 674
SHEET

A7.2

Jan 29, 2016 - 8:35am



A1 Reflected Ceiling Plan - East Wing

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

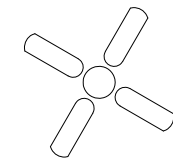


A2 Key plan

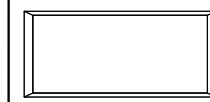
Scale: n.t.s.



Legend



TYPICALLY INDICATES CEILING FAN



TYPICALLY INDICATES 2' x 4' SURFACE MOUNTED FLUORESCENT LIGHT FIXTURE



TYPICALLY INDICATES SMOKE DETECTOR



TYPICALLY INDICATES CARBON MONOXIDE ALARM



TYPICALLY INDICATES EXHAUST FAN

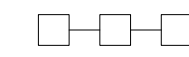
TYPICALLY INDICATES RECESSED INCANDESCENT LIGHT FIXTURE



TYPICALLY INDICATES SUSPENDED PENDANT LIGHT FIXTURE



TYPICALLY INDICATES WALL MOUNTED LIGHT FIXTURE



TYPICALLY INDICATES SUSPENDED CHANDELIER LIGHT FIXTURE



TYPICALLY INDICATES RETURN AIR



TYPICALLY INDICATES SUPPLY AIR



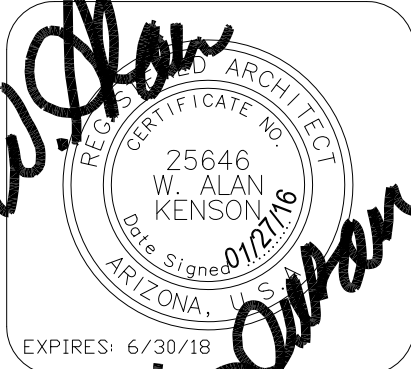
TYPICALLY INDICATES EXHAUST FAN WITH HEAT LAMP

NOTES:

- EXTERIOR CEILING SURFACES ARE TO BE PORTLAND CEMENT PLASTER WITH ACRYLIC EIFS FINISH.
- INTERIOR CEILING SURFACES ARE TO BE PAINTED GPDW.

REVISIONS	BY

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ARCHITECTURE & PLANNING

DRAWING: REFLECTED CEILING PLAN - EAST WING

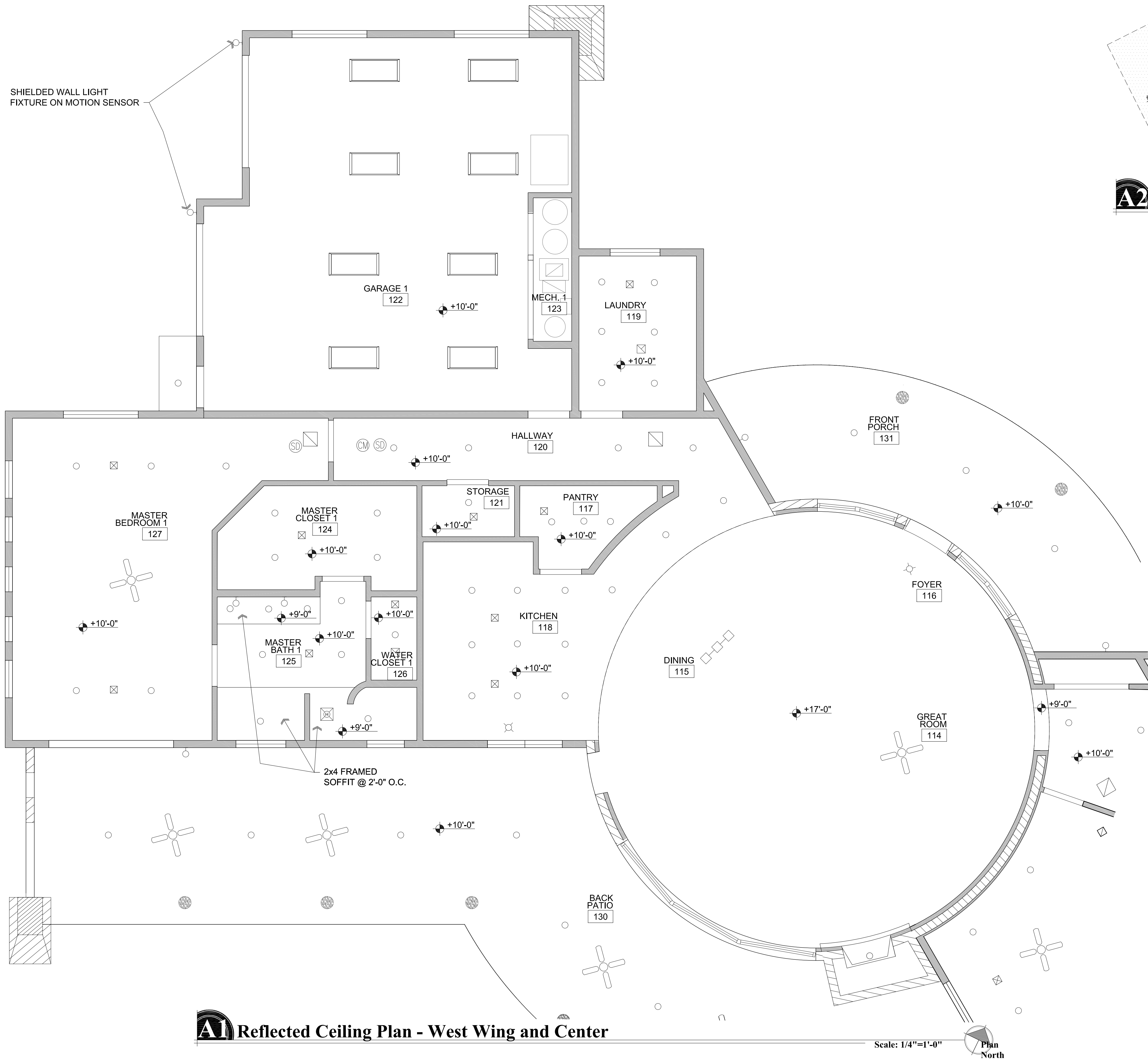
PROJECT: Lembke-Mellul Residence
12255 Slate Rd.
Prescott, AZ 86305

DRAWN BY L.O.
CHECKED BY W.A.K.
DATE JANUARY 27, 2016
SCALE AS NOTED
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A8.0

Jan 29, 2016 - 8:35am

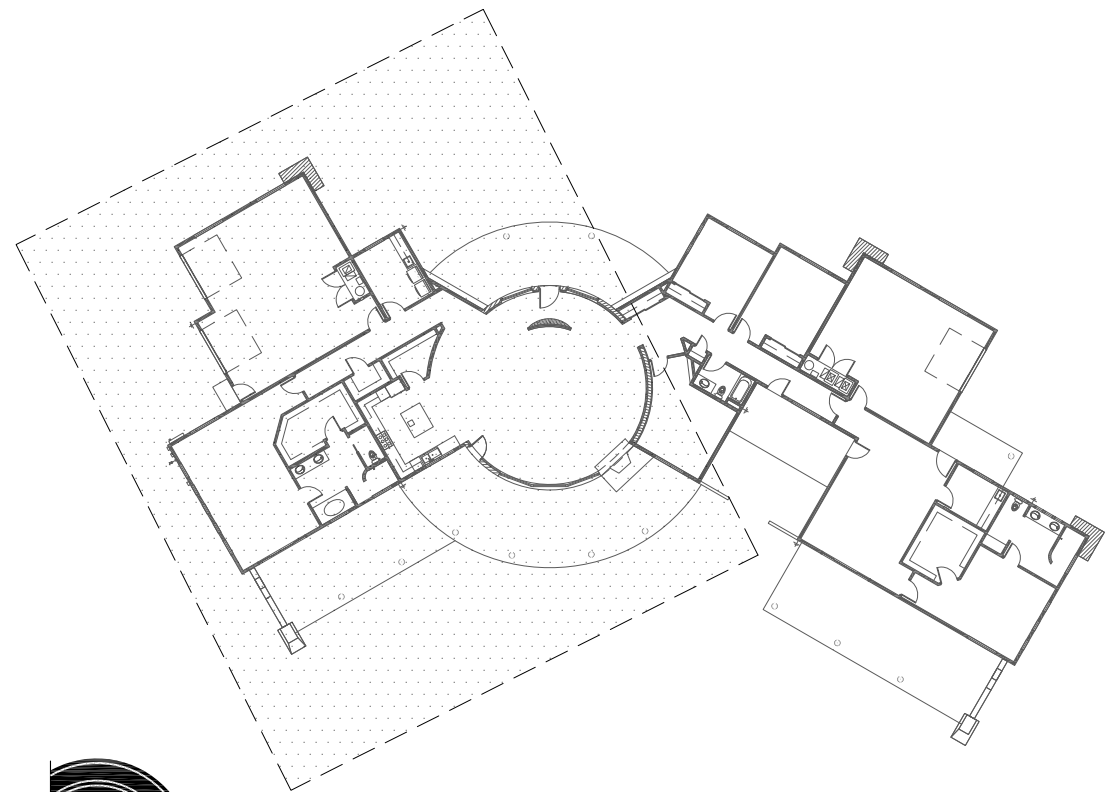
SHIELDED WALL LIGHT
FIXTURE ON MOTION SENSOR



A1 Reflected Ceiling Plan - West Wing and Center

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

Plan
North



A2 Key plan

Scale: n.t.s.

Plan
North

Legend

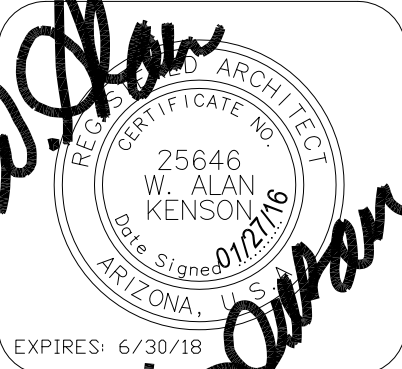
- TYPICALLY INDICATES CEILING FAN
- TYPICALLY INDICATES 2' x 4' SURFACE MOUNTED FLUORESCENT LIGHT FIXTURE
- TYPICALLY INDICATES SMOKE DETECTOR
- TYPICALLY INDICATES CARBON MONOXIDE ALARM
- TYPICALLY INDICATES EXHAUST FAN
- TYPICALLY INDICATES RECESSED INCANDESCENT LIGHT FIXTURE
- TYPICALLY INDICATES SUSPENDED PENDANT LIGHT FIXTURE
- TYPICALLY INDICATES WALL MOUNTED LIGHT FIXTURE
- TYPICALLY INDICATES SUSPENDED CHANDELIER LIGHT FIXTURE
- TYPICALLY INDICATES RETURN AIR
- TYPICALLY INDICATES SUPPLY AIR
- TYPICALLY INDICATES EXHAUST FAN WITH HEAT LAMP

NOTE:

- EXTERIOR CEILING SURFACES ARE TO BE PORTLAND CEMENT PLASTER WITH ACRYLIC EIFS FINISH.
- INTERIOR CEILING SURFACES ARE TO BE PAINTED GPDW.

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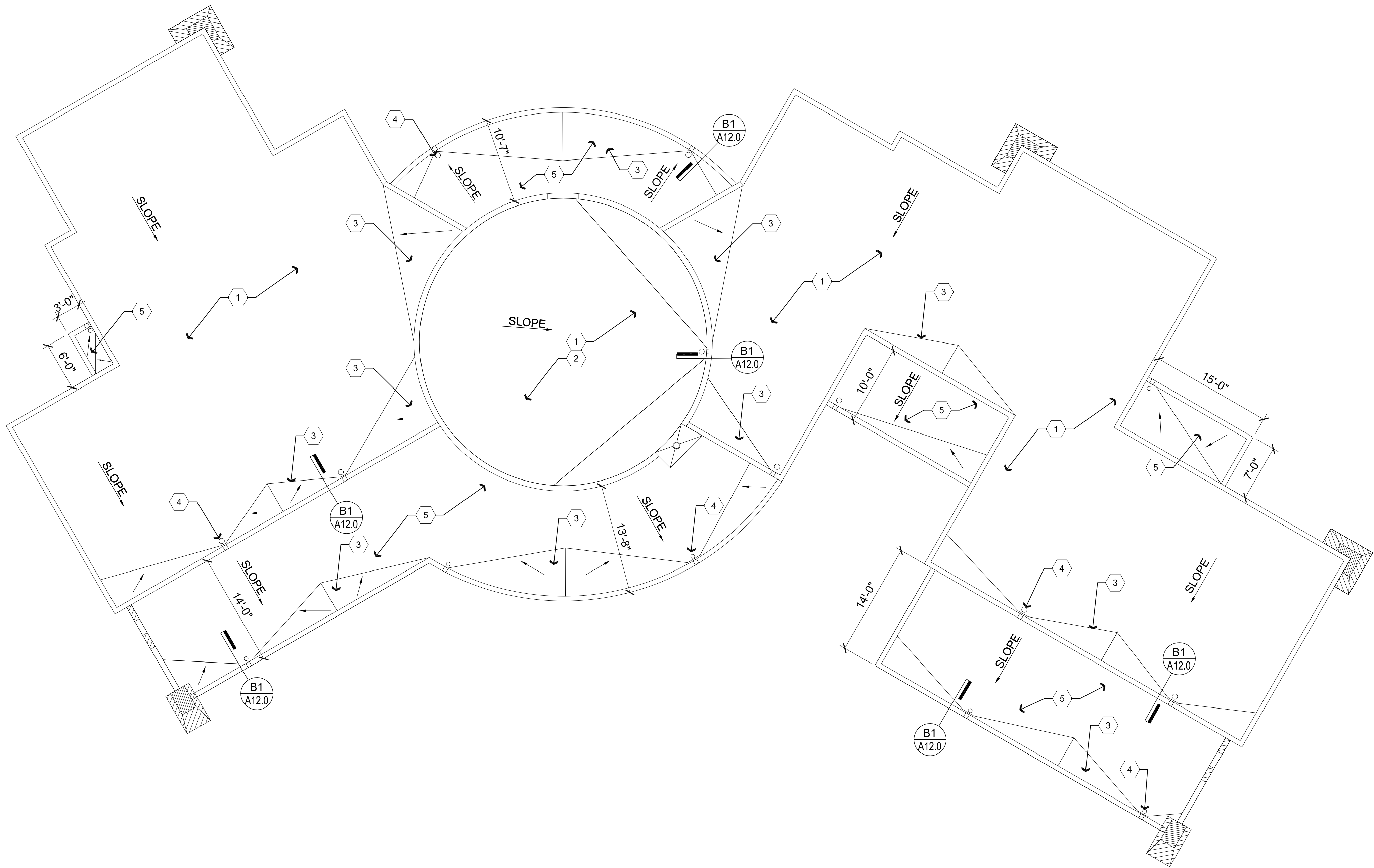
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ARCHITECTURE & PLANNING

DRAWING: REFLECTED CEILING PLAN - WEST WING AND CENTER
PROJECT: Lembke-Mellul Residence
12255 Slate Rd.
Prescott, AZ 86305

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A1 Roof Plan

Scale: 1/8"=1'-0"

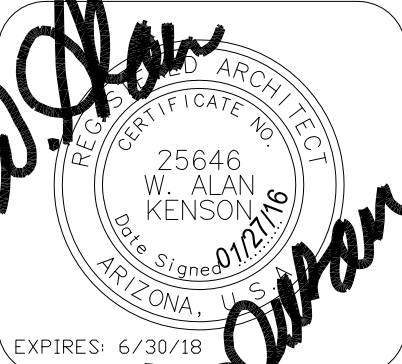


Descriptive Keynotes

1. TPO SINGLE PLY ROOFING MEMBRANE OVER 7/16" OSB.
2. PROVIDE TAPERED INSULATION @ 1/4" : 12" OVER MINIMUM 7" THICK RIGID INSULATION BOARD.
3. PROVIDE CRICKET, TYPICAL. SLOPE SHALL BE DOUBLE THAT OF ADJACENT ROOF SLOPE.
4. ROOF DRAIN AND OVERFLOW, TYPICAL. REFER TO ROOF DRAINAGE PLAN.
5. TPO SINGLE PLY ROOFING MEMBRANE OVER 1/2" PLYWOOD.

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PROJECT:
Lembke-Mellul Residence
12255 State Rd.
Prescott, AZ 86305

DRAWING: ROOF PLAN

PROJECT:

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DATE JANUARY 27, 2016
SCALE AS NOTED
JOB NO. 674
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A9.0

Jan 29, 2016 - 8:36am

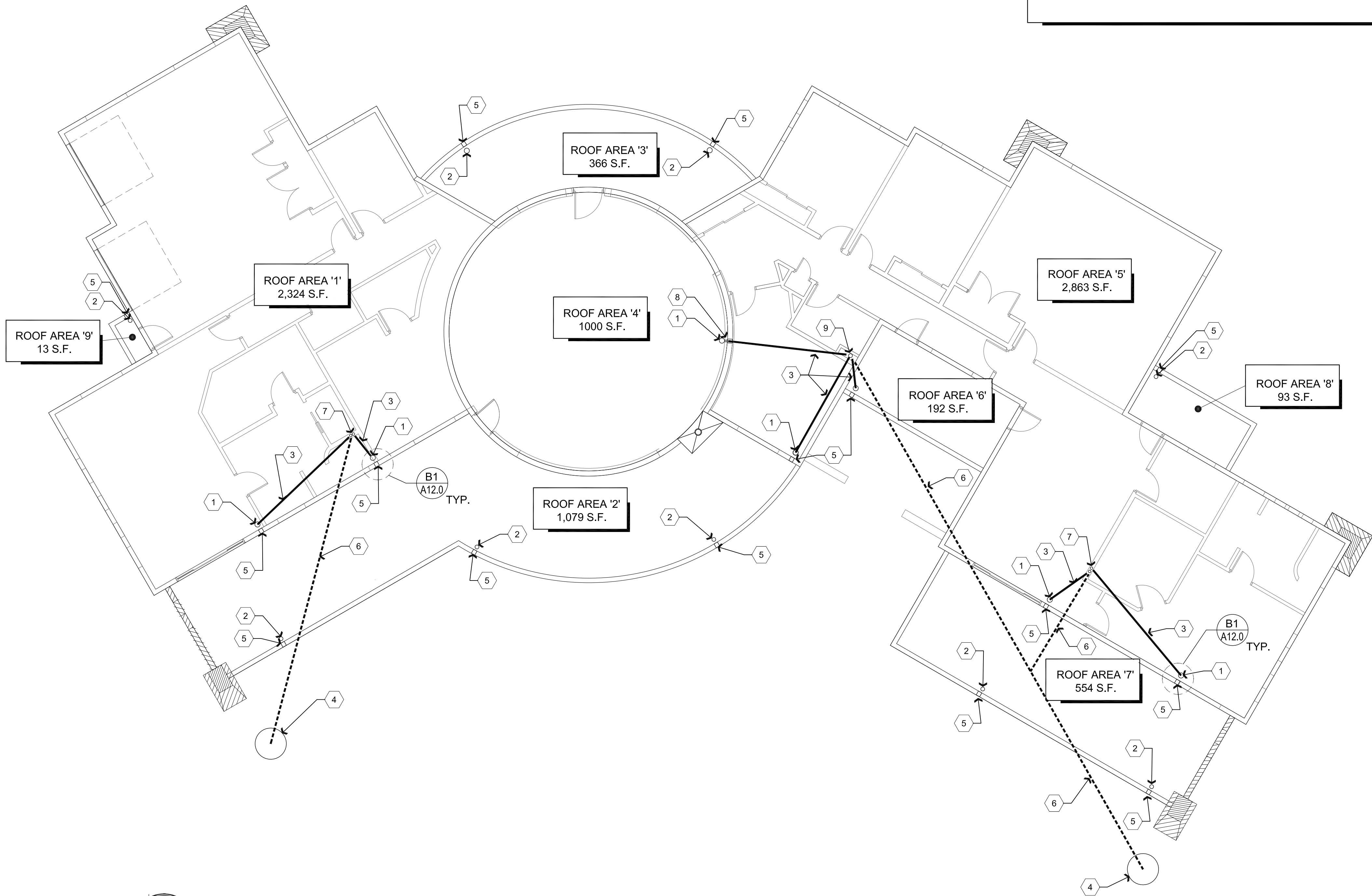
Descriptive Keynotes

1. 3" ROOF DRAIN.
2. 3" ROOF DRAIN WITH RAIN CHAIN BY OWNER.
3. 3" SCHEDULE 40 PVC DRAIN LINE.
4. UNDERGROUND RAIN WATER COLLECTION TANK BY OWNER.
5. 6"x3" OVERFLOW OPENING THROUGH PARAPET.
6. 6" SCHEDULE 40 PVC DRAIN LINE BELOW GRADE.
7. (2) - 3" SCHEDULE 40 PVC DRAIN LINE IN WALL.
8. 3" SCHEDULE 40 PVC DRAIN LINE IN WALL.
9. 6" SCHEDULE 40 PVC DRAIN LINE IN WALL.

Roof Drain Leader Sizes:

PER 2012 IPC SECTION 1106
(TABLE 1106.2)

- | | |
|---|--|
| 1 | ROOF AREA '1': 2,324 S.F. x 3" RAINFALL P.H. = (1) 3" DIAMETER LEADER REQUIRED
(2) 3" LEADERS PROVIDED |
| 2 | ROOF AREA '2': 1,079 S.F. x 3" RAINFALL P.H. = (1) 3" DIAMETER LEADER REQUIRED
(3) 3" LEADERS PROVIDED (3 RAIN CHAINS) |
| 3 | ROOF AREA '3': 366 S.F. x 3" RAINFALL P.H. = (1) 2" DIAMETER LEADER REQUIRED
(2) 3" DIA. LEADERS PROVIDED (2 RAIN CHAINS) |
| 4 | ROOF AREA '4': 1,000 S.F. x 3" RAINFALL P.H. = (1) 3" DIAMETER LEADER REQUIRED
(1) 3" LEADER PROVIDED |
| 5 | ROOF AREA '5': 2,863 S.F. x 3" RAINFALL P.H. = (2) 3" DIAMETER LEADER REQUIRED
(3) 3" LEADERS PROVIDED |
| 6 | ROOF AREA '6': 192 S.F. x 3" RAINFALL P.H. = (1) 2" DIAMETER LEADER REQUIRED
(1) 3" LEADERS PROVIDED |
| 7 | ROOF AREA '7': 554 S.F. x 3" RAINFALL P.H. = (1) 2" DIAMETER LEADER REQUIRED
(2) 3" LEADERS PROVIDED (2 RAIN CHAINS) |
| 8 | ROOF AREA '8': 93 S.F. x 3" RAINFALL P.H. = (1) 2" DIAMETER LEADER REQUIRED
(1) 3" LEADERS PROVIDED (1 RAIN CHAIN) |
| 9 | ROOF AREA '9': 13 S.F. x 3" RAINFALL P.H. = (1) 2" DIAMETER LEADER REQUIRED
(1) 3" LEADERS PROVIDED (1 RAIN CHAIN) |



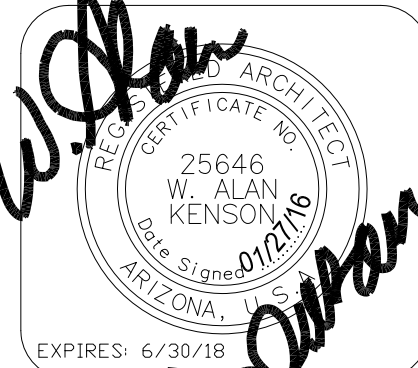
A1 Roof Drainage Plan

Scale: 1/8"=1'-0"



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ARCHITECTURE & PLANNING

DRAWING: ROOF DRAINAGE PLAN

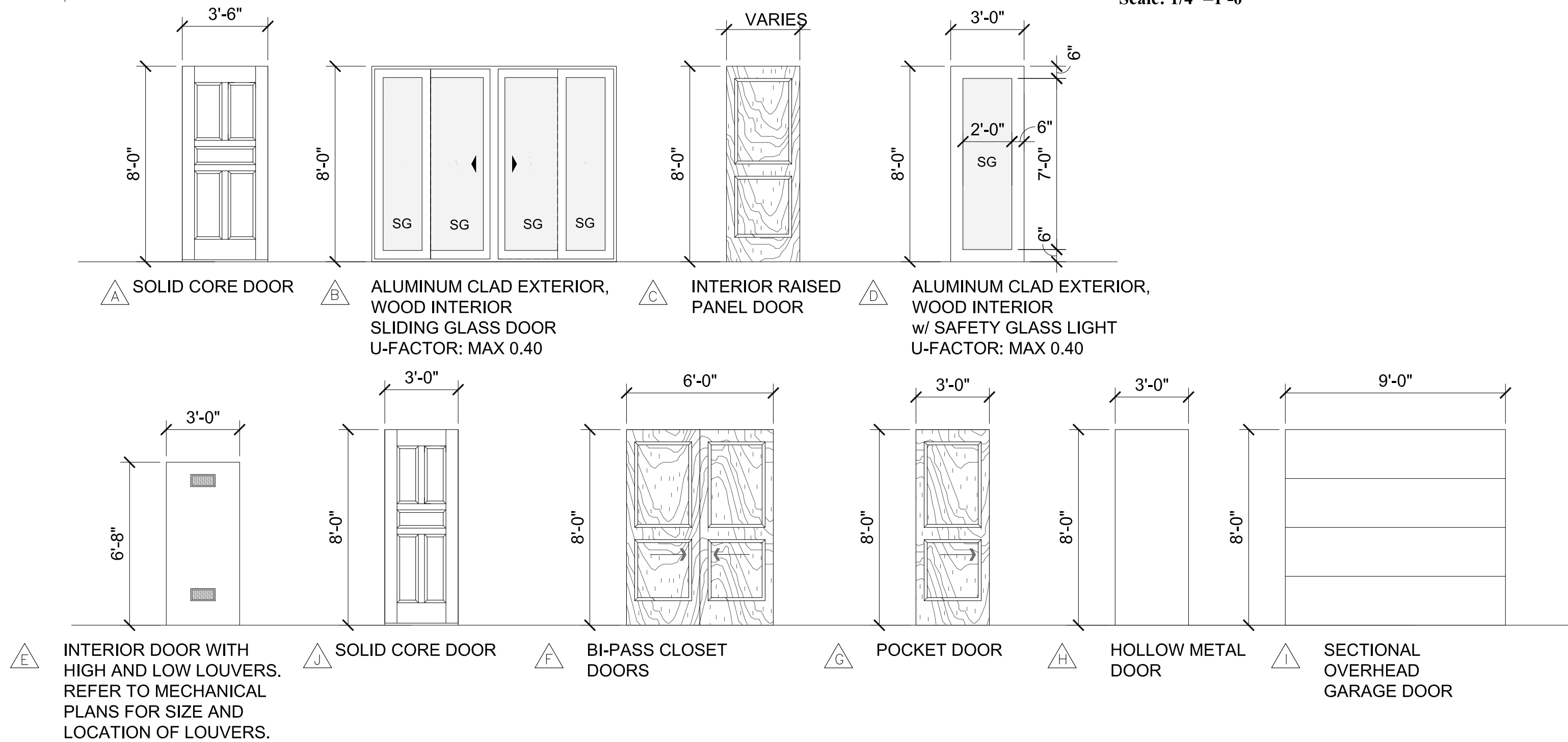
PROJECT: Lembke-Mellul Residence
12255 Slate Rd.
Prescott, AZ 86305

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DATE JANUARY 27, 2016
SCALE AS NOTED
JOB NO. 674
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A9.1

A2 Window Types

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



A1 Door Types

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

Door Schedule

NO.	ROOM NAME	SIZE	TYPE	DOOR MATERIAL	DOOR FINISH	FRAME MATERIAL	FRAME FINISH	HARDWARE TYPE	COMMENTS
101A	MASTER BEDROOM 2	3'-0"x8'-0"	C	WOOD	STAIN	WOOD	STAIN	A	
102A	MASTER BATH 2	3'-0"x8'-0"	C	WOOD	STAIN	WOOD	STAIN	A	
104A	MASTER CLOSET 2	3'-0"x8'-0"	C	WOOD	STAIN	WOOD	STAIN	B	
105A	CAT ROOM	3'-0"x8'-0"	C	WOOD	STAIN	WOOD	STAIN	B	
106A	LIVING ROOM	3'-0"x8'-0"	J	WOOD	STAIN	WOOD	STAIN	D	EXTERIOR
106B	LIVING ROOM	3'-0"x8'-0"	D	WOOD	STAIN	WOOD	STAIN	D	EXTERIOR
106C	LIVING ROOM	10'-0"x8'-0"	B	WOOD	STAIN	WOOD	STAIN	F	SLIDER
107A	GARAGE	3'-0"x8'-0"	C	WOOD	STAIN	WOOD	STAIN	D	
107B	GARAGE	9'-0"x8'-0"	I	WOOD/STEEL	PAINT	WOOD	PAINT	E	
108A	MECHANICAL	(2) 3'-0"x6'-8"	E	WD/MASONITE	PAINT	WOOD	PAINT	B	WITH LOUVERS, REFER TO MECHANICAL
109A	BEDROOM 1	3'-0"x8'-0"	C	WOOD	STAIN	WOOD	STAIN	A	
109B	BEDROOM 1	6'-0"x8'-0"	F	WOOD	STAIN	WOOD	STAIN	-	BI-PASS DOORS
110A	BEDROOM 2	3'-0"x8'-0"	C	WOOD	STAIN	WOOD	STAIN	A	
110B	BEDROOM 2	6'-0"x8'-0"	F	WOOD	STAIN	WOOD	STAIN	-	BI-PASS DOORS
111A	BATHROOM	3'-0"x8'-0"	C	WOOD	STAIN	WOOD	STAIN	A	
112A	HALLWAY	6'-0"x8'-0"	F	WOOD	STAIN	WOOD	STAIN	-	BI-PASS DOORS
112B	HALLWAY	2'-0"x8'-0"	C	WOOD	STAIN	WOOD	STAIN	B	
112C	HALLWAY	3'-0"x8'-0"	D	WOOD	STAIN	WOOD	STAIN	D	EXTERIOR
112D	HALLWAY	3'-0"x8'-0"	C	WOOD	STAIN	WOOD	STAIN	D	NO WEATHER STRIP OR THRESHOLD REQUIRED
113A	OFFICE	3'-0"x8'-0"	C	WOOD	STAIN	WOOD	STAIN	A	
115A	DINING	3'-0"x8'-0"	D	WOOD	STAIN	WOOD	STAIN	D	EXTERIOR
116A	FOYER	3'-6"x8'-0"	A	WOOD	STAIN	WOOD	STAIN	D	EXTERIOR
117A	PANTRY	3'-0"x8'-0"	C	WOOD	STAIN	WOOD	STAIN	B	
119A	LAUNDRY	3'-0"x8'-0"	C	WOOD	STAIN	WOOD	STAIN	B	
121A	STORAGE	3'-0"x8'-0"	C	WOOD	STAIN	WOOD	STAIN	B	
122A	GARAGE	3'-0"x8'-0"	H	H.M.	PAINT	H.M.	PAINT	D	EXTERIOR
122B	GARAGE	9'-0"x8'-0"	I	WOOD/STEEL	PAINT	WOOD	PAINT	E	
122C	GARAGE	9'-0"x8'-0"	I	WOOD/STEEL	PAINT	WOOD	PAINT	E	
122D	GARAGE	3'-0"x8'-0"	C	WOOD	STAIN	WOOD	STAIN	D	20 MINUTE FIRE RATED, PROVIDE SELF-CLOSING HINGES
123A	MECHANICAL	(2) 3'-0"x6'-8"	E	WD/MASONITE	PAINT	WOOD	PAINT	B	WITH LOUVERS, REFER TO MECHANICAL
123B	MECHANICAL	3'-0"x6'-8"	E	WD/MASONITE	PAINT	WOOD	PAINT	B	NO LOUVERS
124A	MASTER CLOSET 1	3'-0"x8'-0"	C	WOOD	STAIN	WOOD	STAIN	B	
125A	MASTER BATH 1	3'-0"x8'-0"	C	WOOD	STAIN	WOOD	STAIN	A	
126A	WATER CLOSET 1	3'-0"x8'-0"	G	WOOD	STAIN	WOOD	STAIN	C	POCKET
127A	MASTER BEDROOM 1	3'-0"x8'-0"	C	WOOD	STAIN	WOOD	STAIN	A	
127B	MASTER BEDROOM 1	10'-0"x8'-0"	B	WOOD	STAIN	WOOD	STAIN	F	

NOTES:

- ALL GLAZING IN DOORS SHALL BE SAFETY GLAZING.
- ALL GLAZING WITHIN 24" OF OPENINGS SHALL BE SAFETY GLASS.
- IF A DOOR HAS A CLOSER, THEN THE SWEEP PERIOD OF THE CLOSER SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 70 DEGREES, THE DOOR WILL TAKE AT LEAST 3 SECONDS TO MOVE TO A POINT 3" FROM THE LATCH, MEASURED TO THE LEADING EDGE OF THE DOOR.

Door Hardware Schedule

HARDWARE SET A:

LEVER PRIVACY LOCK.

HARDWARE SET B:

LEVER PASSAGE.

HARDWARE SET C:

RECESSED PULL FOR POCKET DOOR.

HARDWARE SET D:

LEVER ENTRY LOCK, WEATHER STRIP, THRESHOLD, DEADBOLT.

HARDWARE SET E:

ELECTRICALLY OPERATED OPENER.

HARDWARE SET F:

BY MANUFACTURER.

REVISIONS

BY

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ARCHITECTURE & PLANNING

DRAWING: DOOR AND WINDOW SCHEDULES

PROJECT:

Lembke-Mellul Residence
12255 Slate Rd.
Prescott, AZ 86305

DRAWN BY
L.O.

CHECKED BY
W.A.K.

DATE
JANUARY 27, 2016

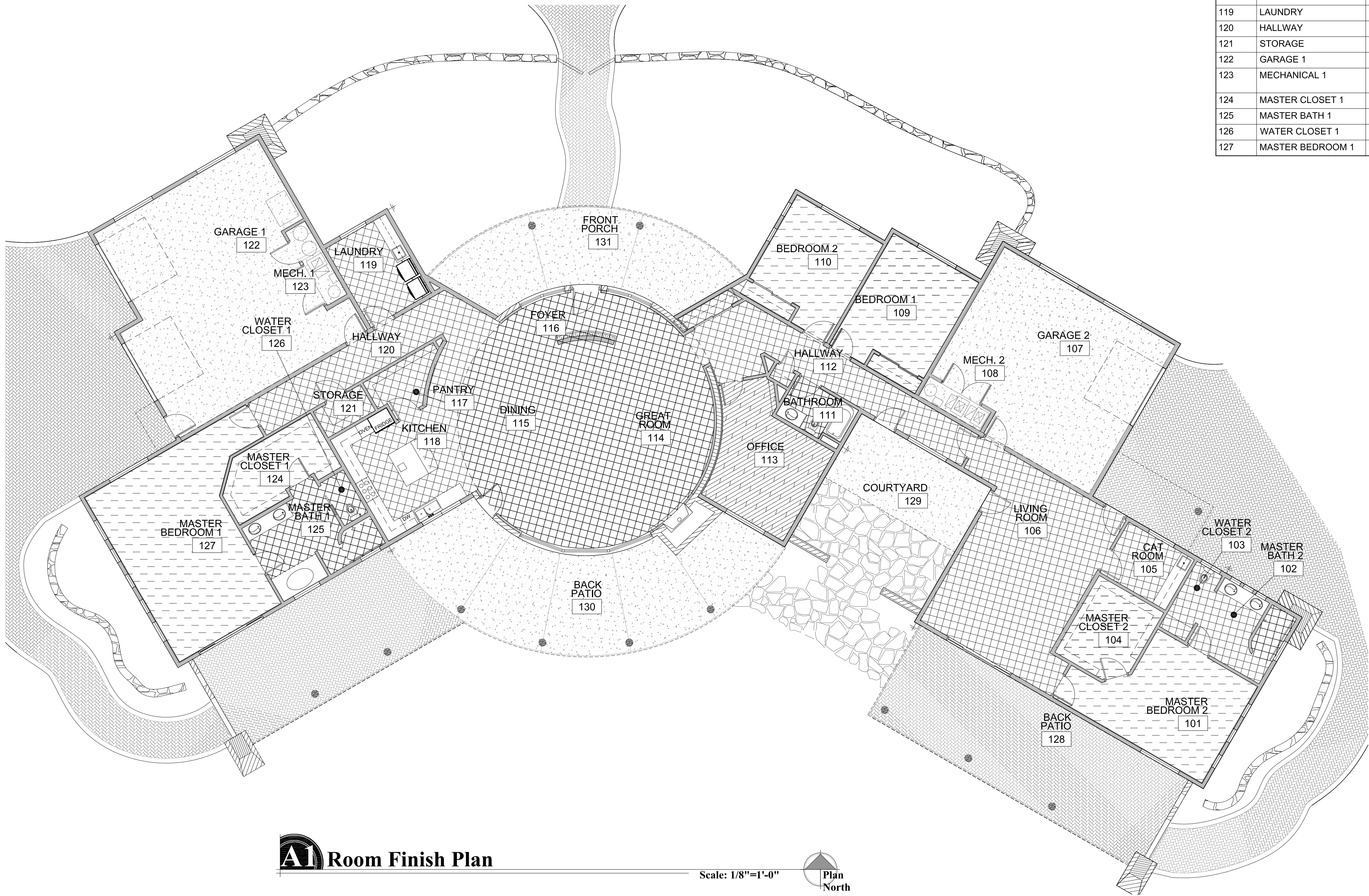
SCALE
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A10.0

Jan 29, 2016 - 8:36am



Room Finish Plan

Scale: 1/8"=1'-0"



Room Finish Schedule

NO.	ROOM NAME	FLOOR	BASE	WALLS	CEILING	HEIGHT	COMMENTS
101	MASTER BEDROOM 2	F4	B1	W1	C1	10'-0"	
102	MASTER BATH 2	F2	B2	W1	C1	10'-0"	
103	WATER CLOSET 2	F2	B2	W1	C1	10'-0"	
104	MASTER CLOSET 2	F4	B1	W1	C1	10'-0"	
105	CAT ROOM	F2	B2	W1	C1	10'-0"	
106	LIVING ROOM	F2	B2	W1	C1	10'-0"	
107	GARAGE 2	F3	B3/B1	W1	C1	10'-0"	
108	MECHANICAL 2	F3	B3	W1	C1	10'-0"	PROVIDE 18" HIGH RAISED PLATFORM
109	BEDROOM 1	F2	B2	W1	C1	10'-0"	
110	BEDROOM 2	F2	B2	W1	C1	10'-0"	
111	BATHROOM	F2	B2	W1	C1	10'-0"	
112	HALLWAY	F2	B2	W1	C1	10'-0"	
113	OFFICE	F1	B1	W1	C1	10'-0"	
114	GREAT ROOM	F2	B2	W1	C1	17'-0"	
115	DINING	F2	B2	W1	C1	17'-0"	
116	FOYER	F2	B2	W1	C1	17'-0"	
117	PANTRY	F2	B2	W1	C1	10'-0"	
118	KITCHEN	F2	B2	W1	C1	10'-0"	
119	LAUNDRY	F2	B2	W1	C1	10'-0"	
120	HALLWAY	F2	B2	W1	C1	10'-0"	
121	STORAGE	F2	B2	W1	C1	10'-0"	
122	GARAGE 1	F3	B3/B1	W1	C1	10'-0"	
123	MECHANICAL 1	F3	B3	W1	C1	10'-0"	PROVIDE 18" HIGH RAISED PLATFORM
124	MASTER CLOSET 1	F4	B1	W1	C1	10'-0"	
125	MASTER BATH 1	F2	B2	W1	C1	10'-0"	
126	WATER CLOSET 1	F2	B2	W1	C1	10'-0"	
127	MASTER BEDROOM 1	F4	B1	W1	C1	10'-0"	

FLOORS:
F1 ENGINEERED WOOD FLOORING
F2 CERAMIC TILE
F3 EXPOSED CONCRETE
F4 CARPET

BASE:
B1 WOOD
B2 CERAMIC TILE
B3 NONE

WALLS:
W1 PAINTED GPDW

CEILING:
C1 PAINTED GPDW

Legend:

	TYPICALLY INDICATES ENGINEERED, TONGUE & GROOVE HARDWOOD FLOORING
	TYPICALLY INDICATES CERAMIC TILE FLOORING
	TYPICALLY INDICATES CONCRETE SURFACE
	TYPICALLY INDICATES CARPET
	TYPICALLY INDICATES CONCRETE PAVERS

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ARCHITECTURE & PLANNING

DRAWING: ROOM FINISH PLAN & SCHEDULE

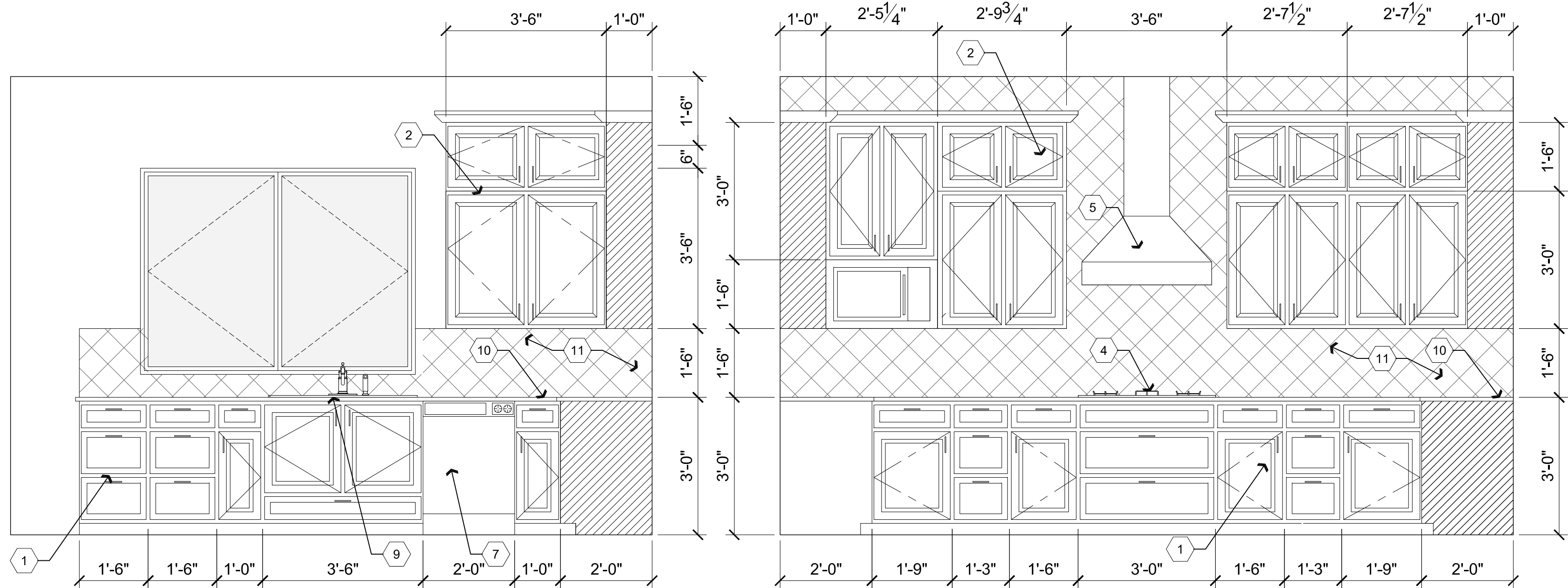
PROJECT:

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Prescott, AZ 86305

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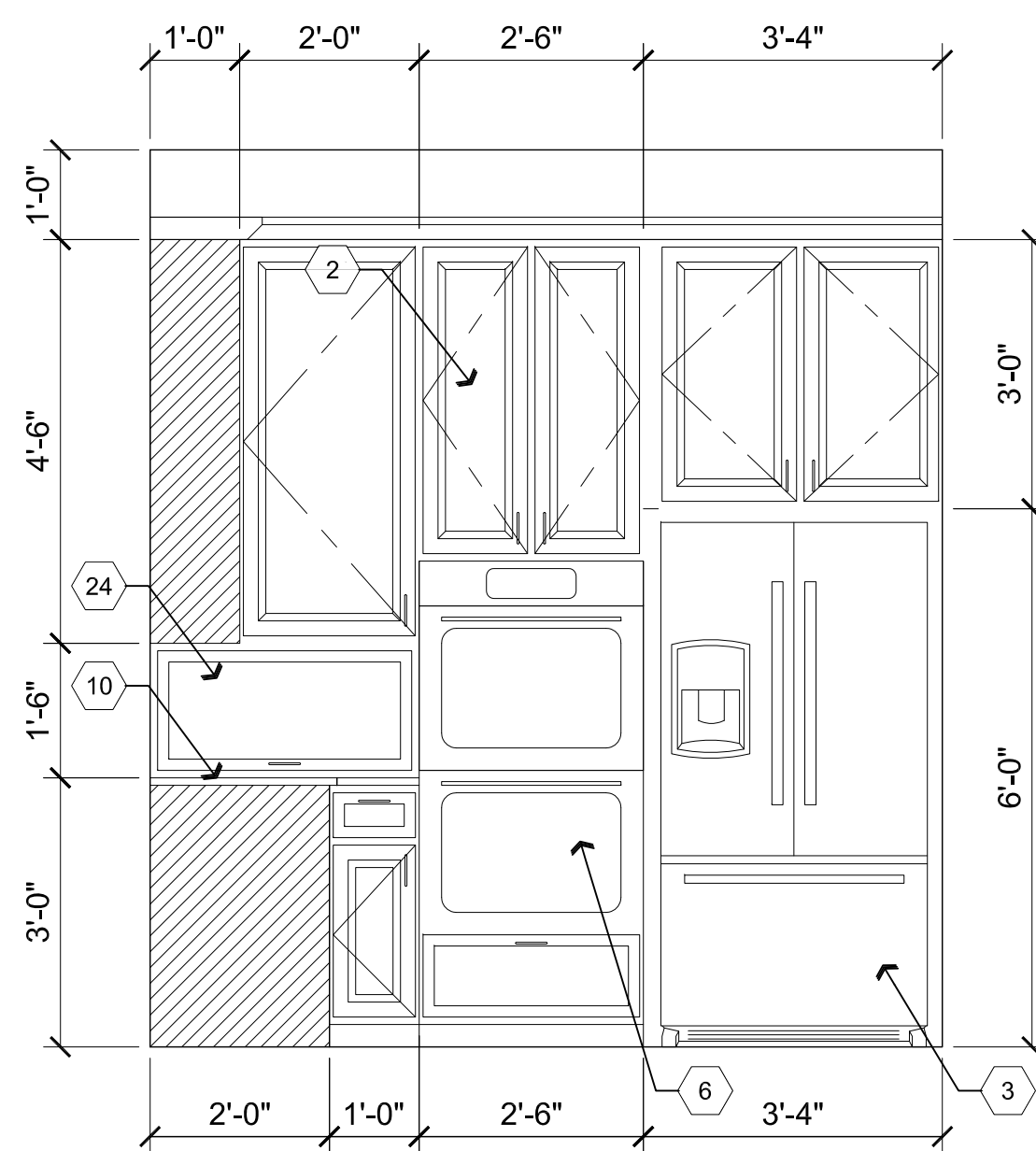


A3 Kitchen Elevation

Scale: 1/2"=1'-0"

B3 Kitchen Elevation

Scale: 1/2"=1'-0"

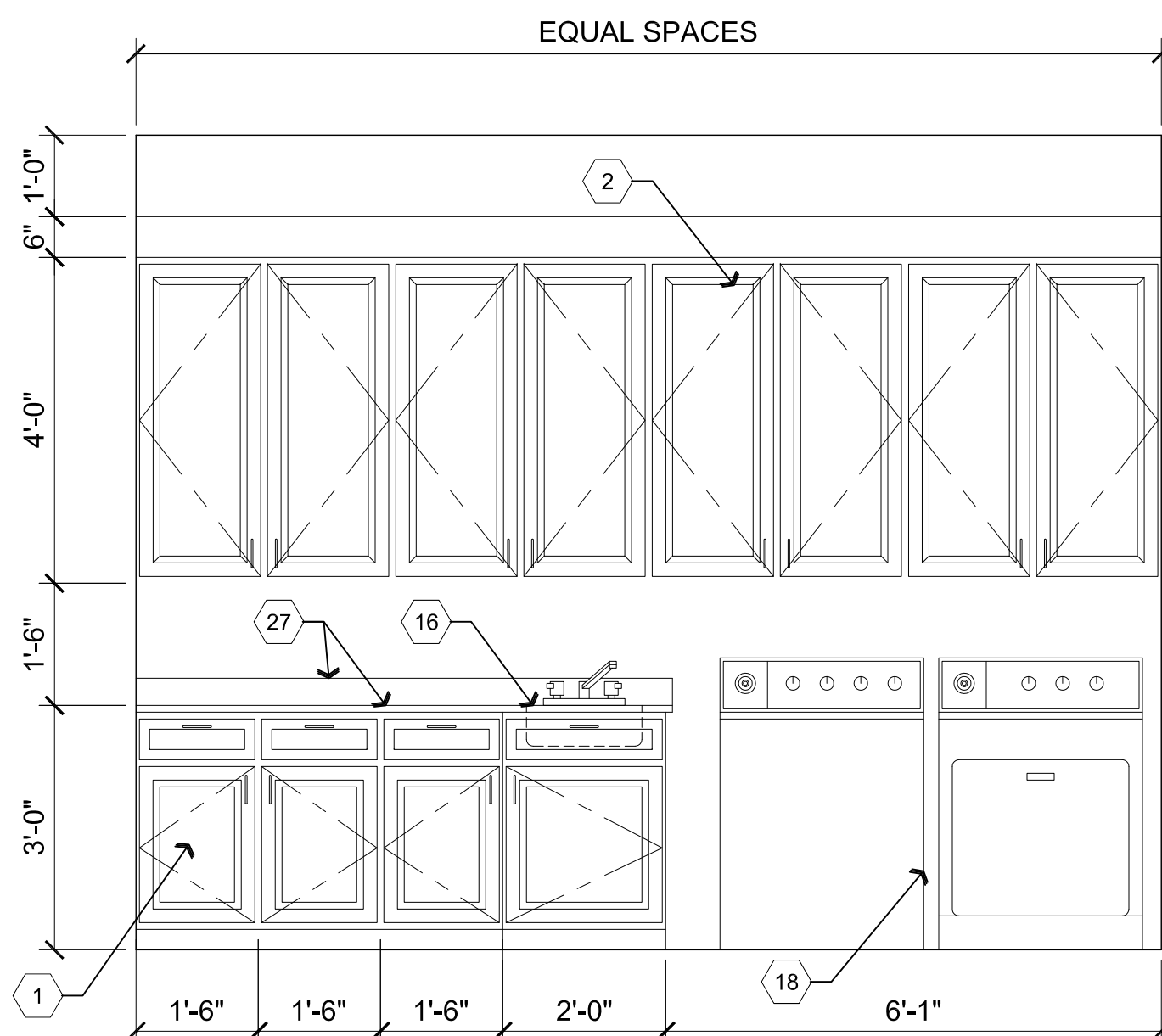


C3 Kitchen Elevation

Scale: 1/2"=1'-0"

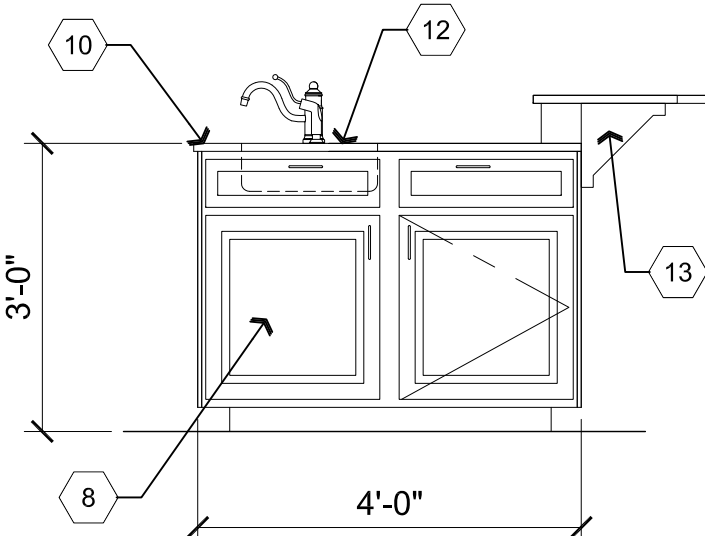
Descriptive Keynotes

1. PROVIDE WOOD BASE CABINETRY.
2. PROVIDE WOOD UPPER CABINETRY.
3. REFRIGERATOR/FREEZER BY OWNER.
4. COOKTOP AS SELECTED BY OWNER.
5. RANGE HOOD AS SELECTED BY OWNER.
6. DOUBLE OVENS AS SELECTED BY OWNER.
7. DISHWASHER AS SELECTED BY OWNER.
8. FINISHED END PANEL.
9. SINK AS SELECTED BY OWNER.
10. GRANITE COUNTERTOP AS SELECTED BY OWNER.
11. TILE BACKSPLASH AS SELECTED BY OWNER.
12. PROVIDE SINK AS SELECTED BY OWNER.
13. COUNTERTOP SUPPORT.
14. PROVIDE CERAMIC TILE FINISH OVER 2x WOOD FRAMED BATH TUB SURROUND.
15. PROVIDE BATH TUB AS SELECTED BY OWNER.
16. PROVIDE UTILITY SINK SET INTO COUNTERTOP.
17. PROVIDE BELOW COUNTER VANITY SINK.
18. CLOTHES WASHER AND DRYER BY OWNER. STUB OUT FOR PROPANE.
19. MIRROR AS SELECTED BY OWNER.
20. VANITY LIGHT AS SELECTED BY OWNER.
21. QUARTZITE COUNTERTOP AS SELECTED BY OWNER.
22. QUARTZITE BACKSPLASH AS SELECTED BY OWNER.
23. SHELF BRACKETS AS SELECTED BY OWNER.
24. APPLIANCE GARAGE.
25. WINDOW. REFER TO REFERENCE FLOOR PLAN AND WINDOW TYPES.
26. CERAMIC TILE.
27. PLASTIC LAMINATE COUNTERTOP AND BACKSPLASH AS SELECTED BY OWNER.
28. 4" GRANITE BACKSPLASH.



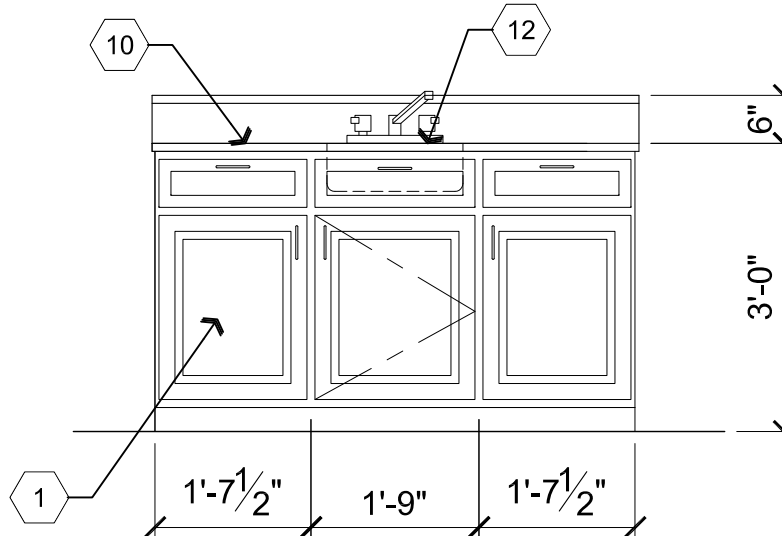
B2 Kitchen Island Elevation

Scale: 1/2"=1'-0"



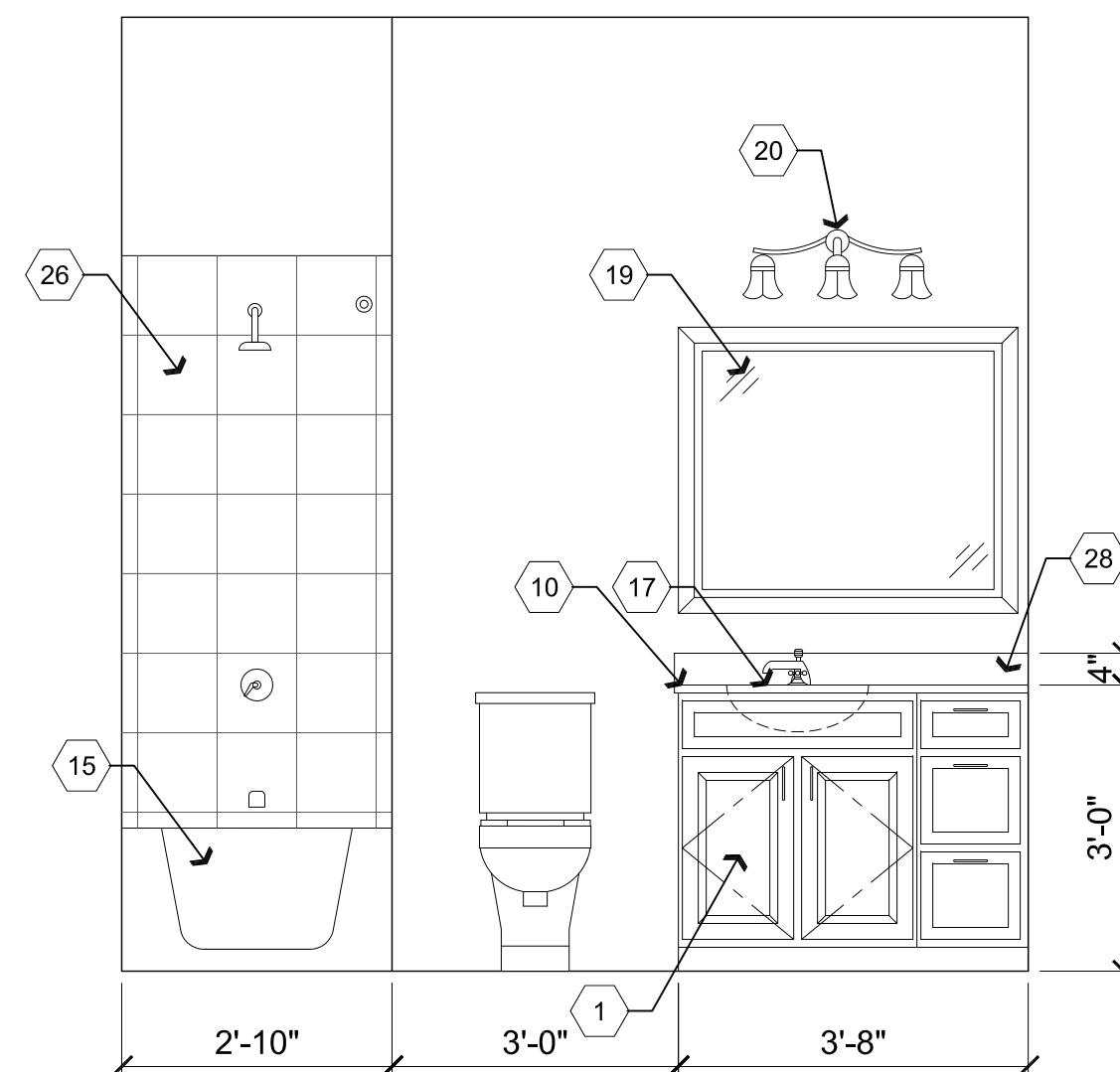
C2 Kitchen Island Elevation

Scale: 1/2"=1'-0"



D2 Kitchen Island Elevation

Scale: 1/2"=1'-0"

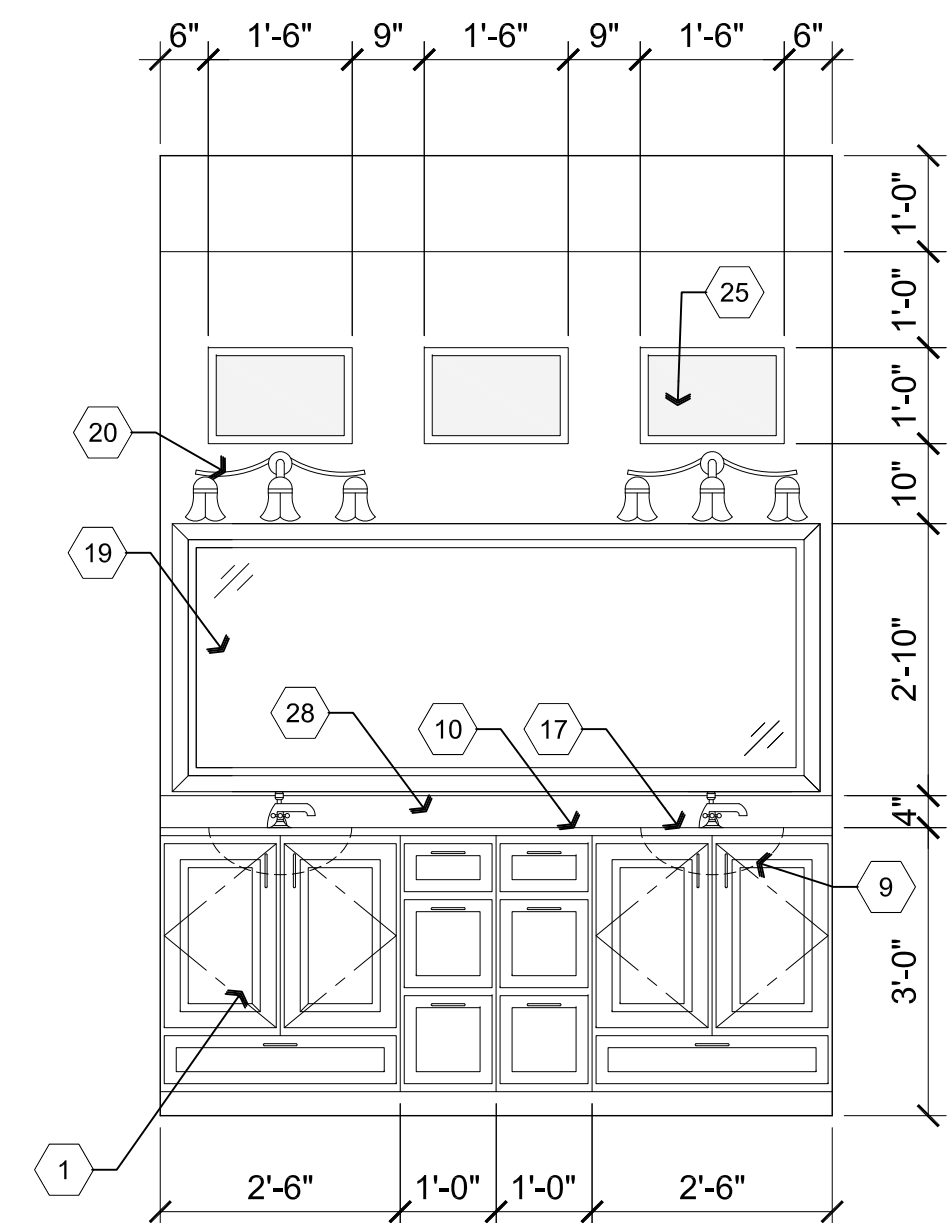


E2 Bathroom Elevation

Scale: 1/2"=1'-0"

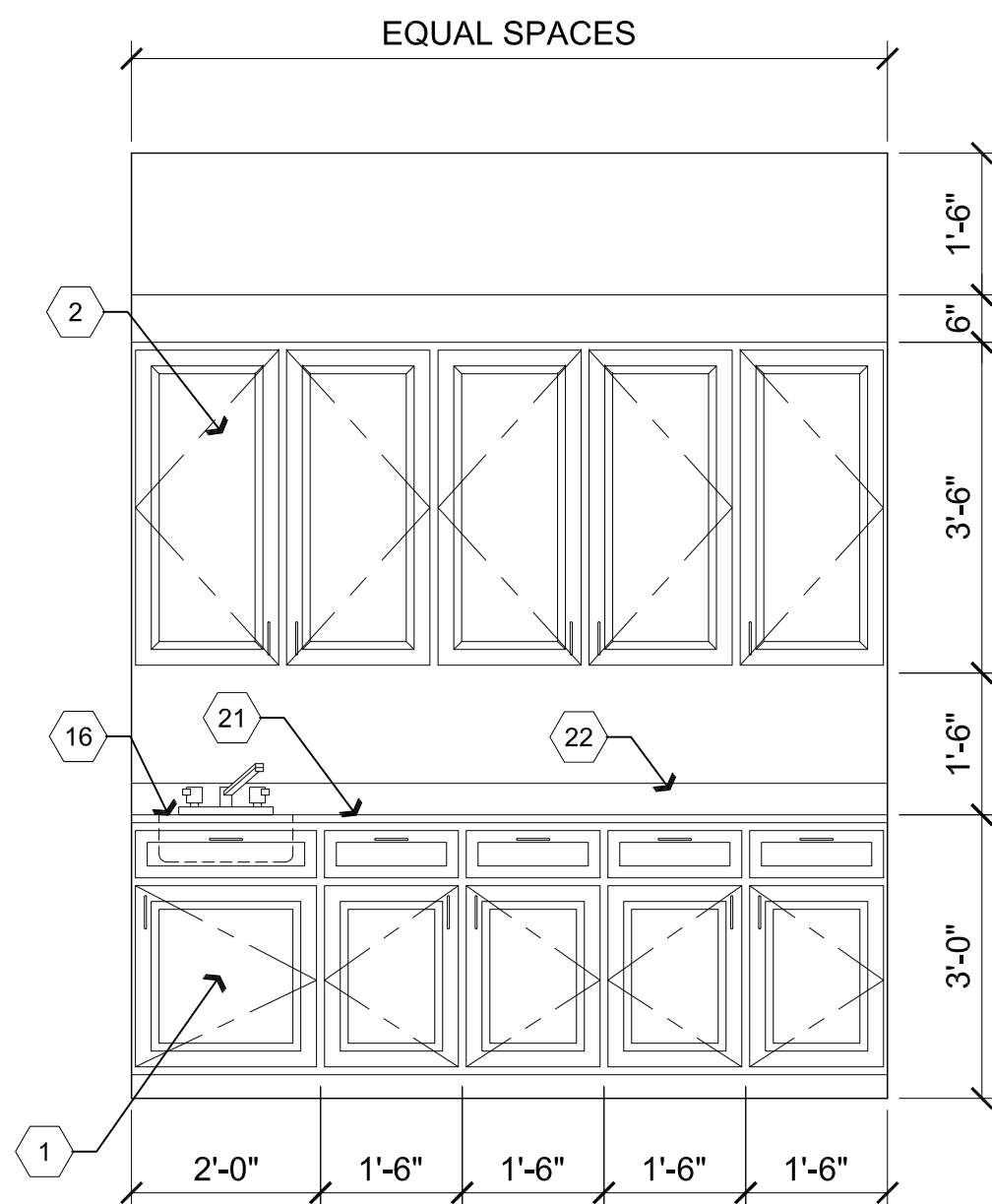
A2 Laundry Room Elevation

Scale: 1/2"=1'-0"



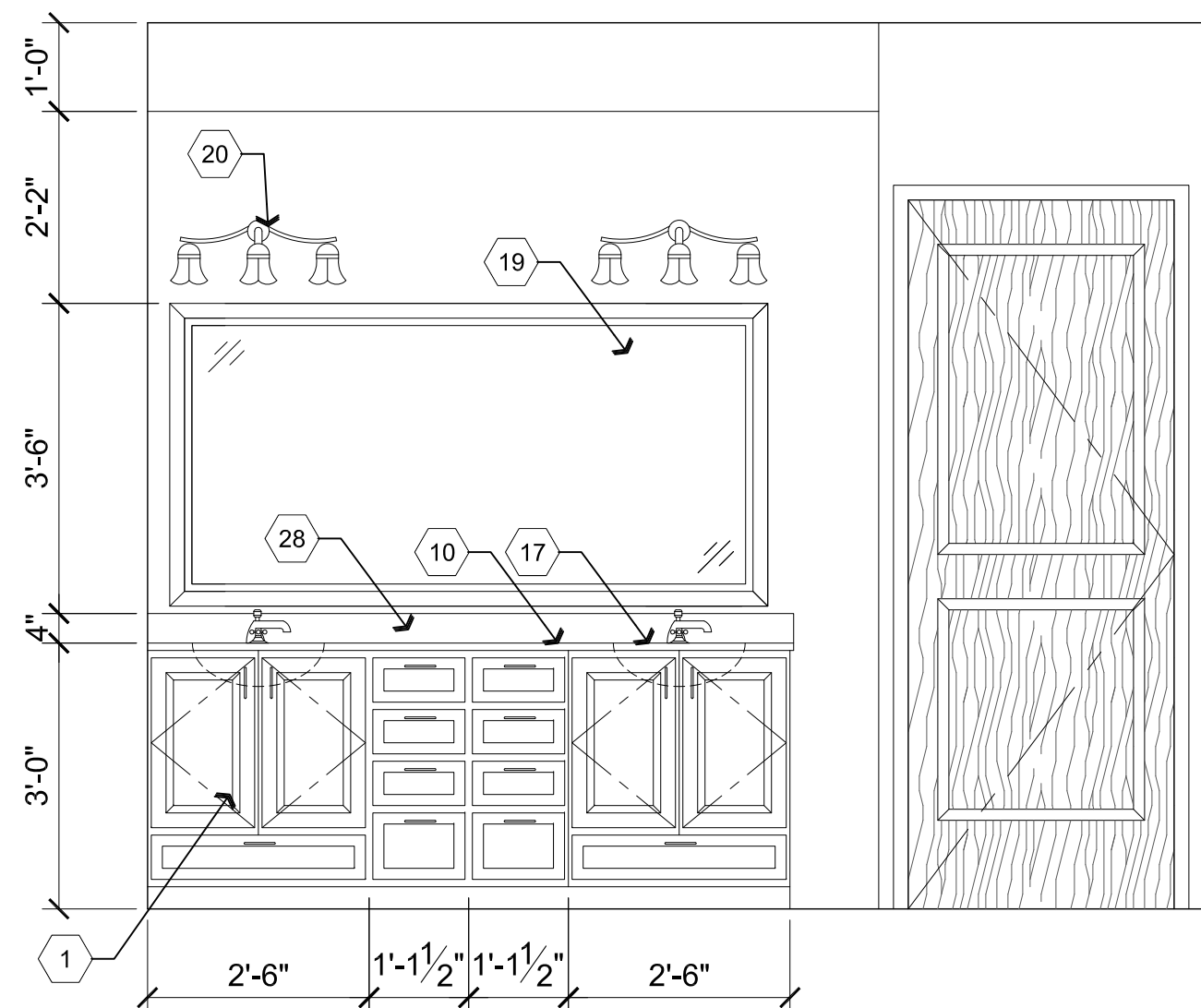
A1 Master Bathroom 2 Elevation

Scale: 1/2"=1'-0"



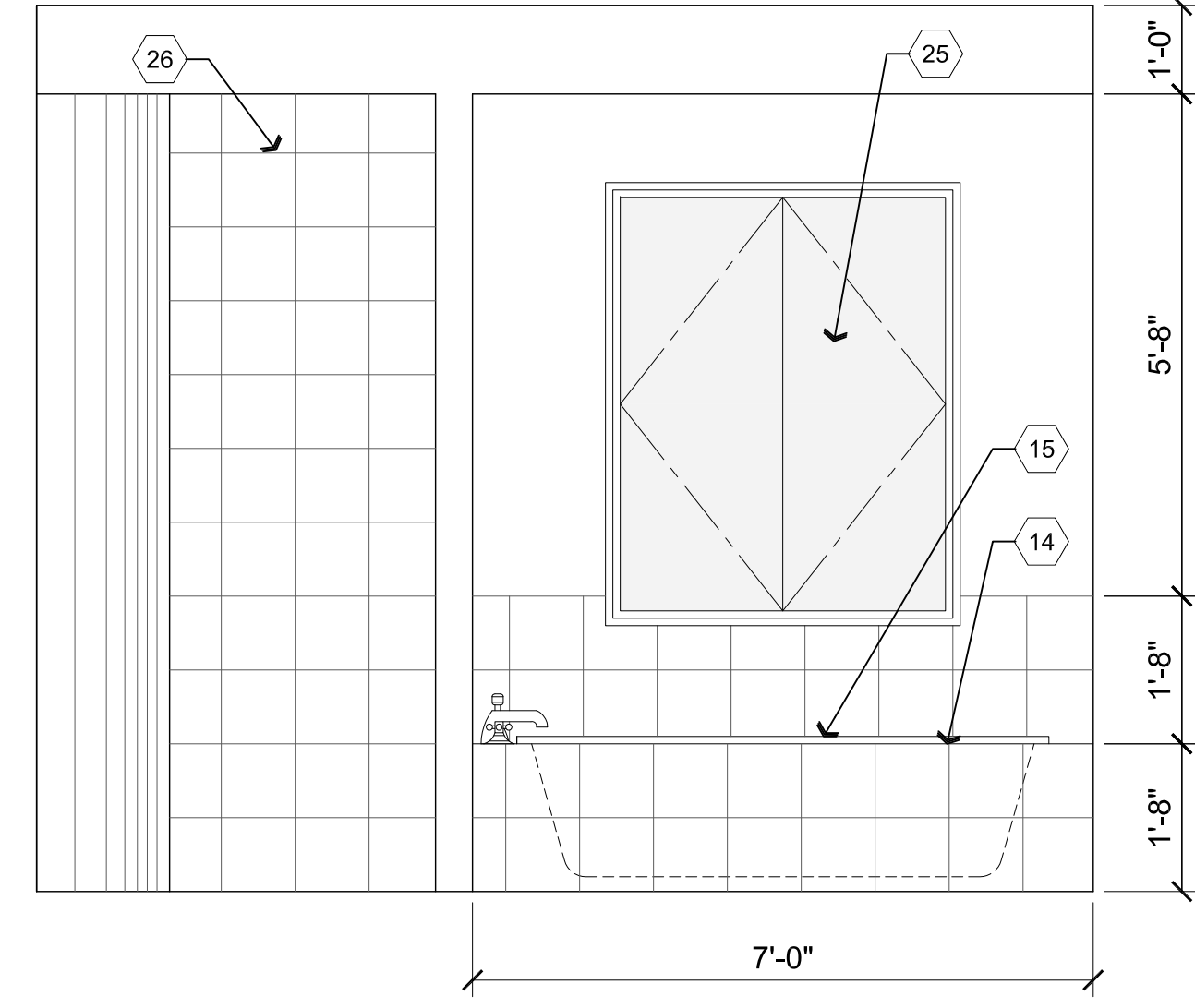
B1 Cat Room Elevation

Scale: 1/2"=1'-0"



C1 Master Bathroom 1 Elevation

Scale: 1/2"=1'-0"

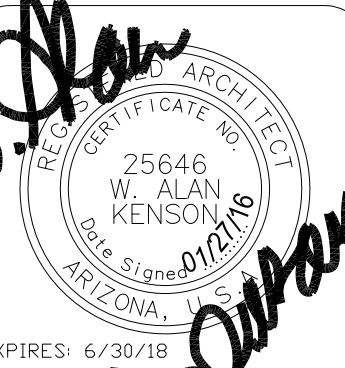


D1 Master Bathroom 1 Elevation

Scale: 1/2"=1'-0"

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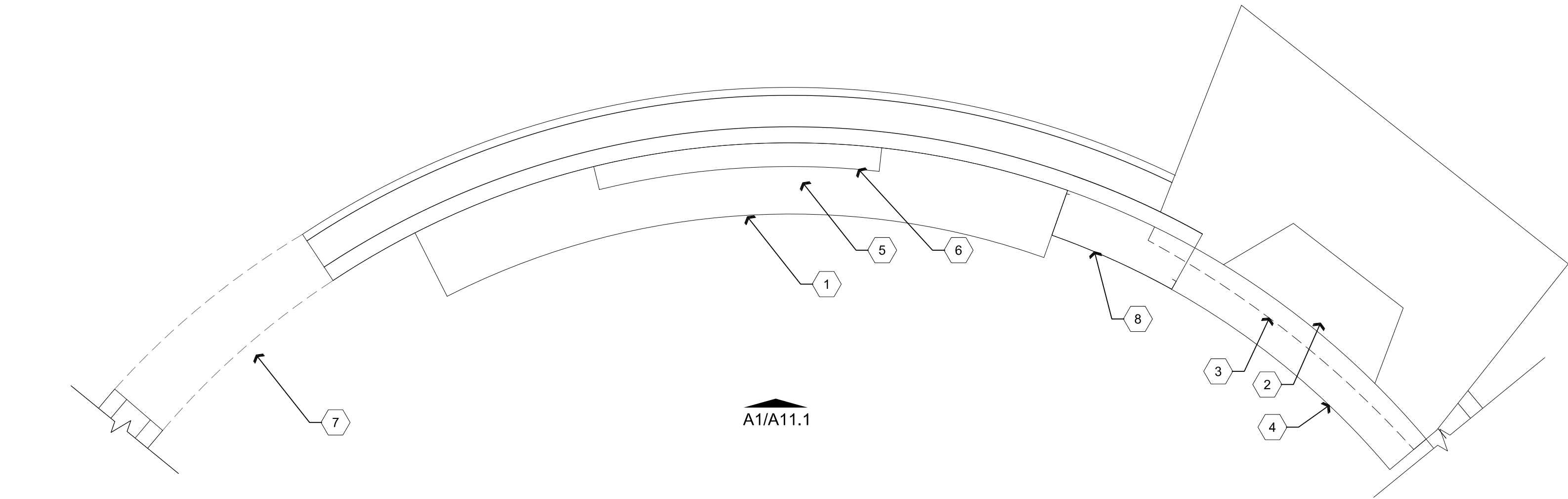
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ARCHITECTURE & PLANNING

DRAWING: INTERIOR ELEVATIONS
PROJECT: Lembke-Mellul Residence
12255 Slate Rd.
Prescott, AZ 86305

DRAWN BY
L.O.
CHECKED BY
W.A.K.
DATE
JANUARY 27, 2016
SCALE
AS NOTED
JOB NO.
674
SHEET

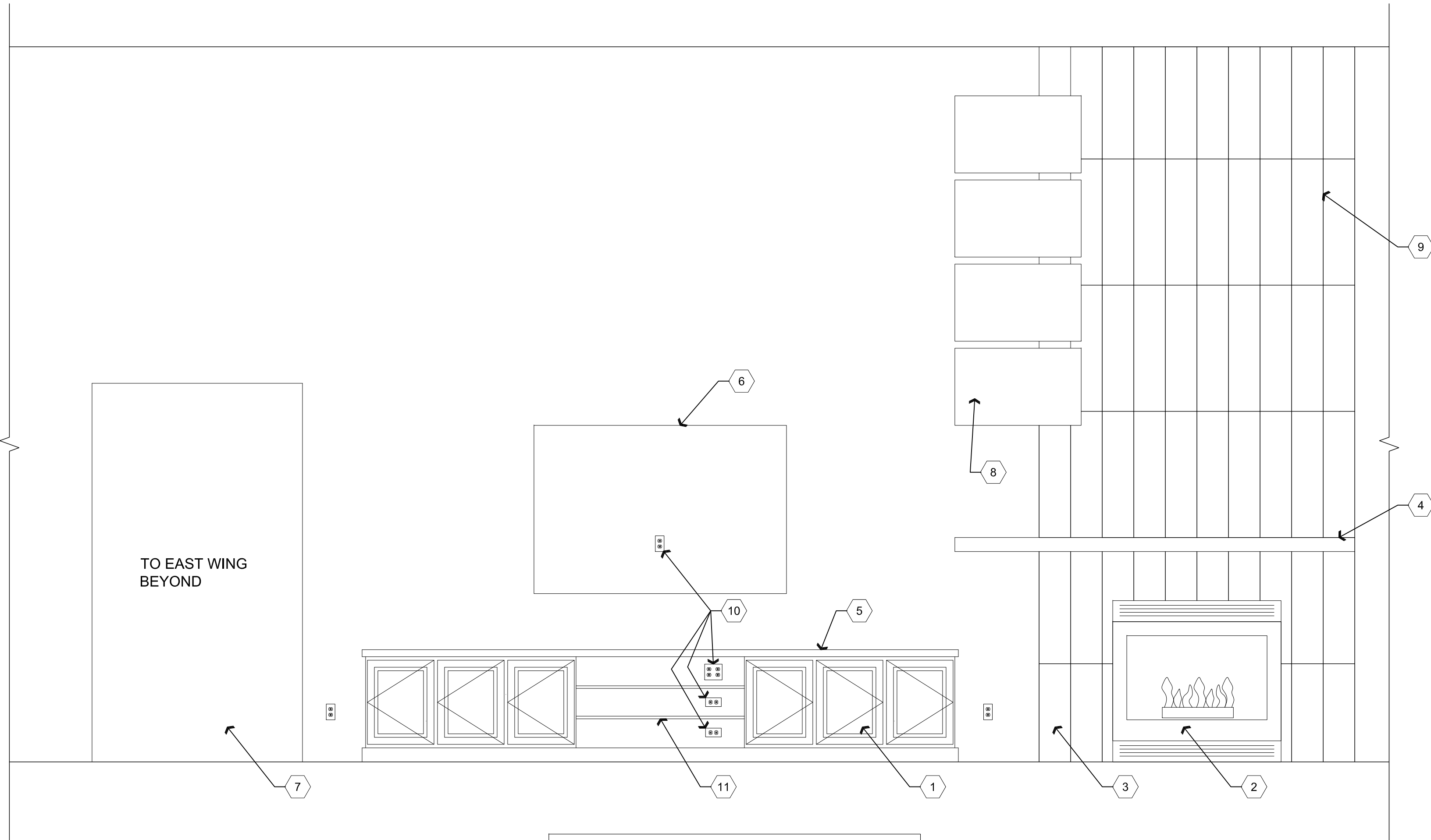
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Jan 29, 2016 - 8:37am



A2 Great Room Enlarged Plan East Side

Scale: 1/2"=1'-0"



A1 Great Room East Elevation

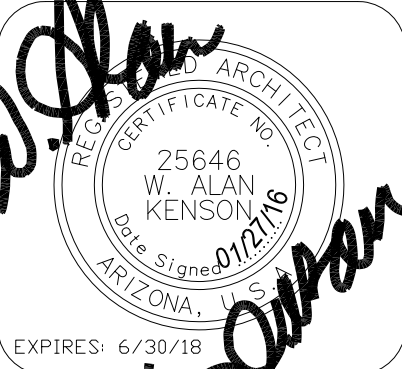
Scale: 1/2"=1'-0"

Descriptive Keynotes

1. PROVIDE CURVED WOOD BASE CABINETRY.
2. PROVIDE FIREPLACE AS SELECTED BY OWNER.
3. FACE OF FIREPLACE SURROUND, CURVED TO MATCH WALL AND OFFSET 4" FROM WALL.
4. 12" WOOD MANTLE, CURVED TO MATCH CURVE OF WALL.
5. WOOD COUNTER TOP CURVED TO MATCH CURVE OF WALL.
6. TV POPOUT 6" FROM WALL CURVED TO MATCH.
7. ENTRANCE TO EAST WING HALLWAY.
8. FLOATING METAL DESIGN ELEMENTS.
9. TILE AS SELECTED BY OWNER.
10. ELECTRIC OUTLET.
11. OPEN SHELVING.

REVISIONS	BY

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ARCHITECTURE & PLANNING

DRAWING: INTERIOR ELEVATIONS

PROJECT: Lembke-Mellul Residence
12255 Slate Rd.
Prescott, AZ 86305

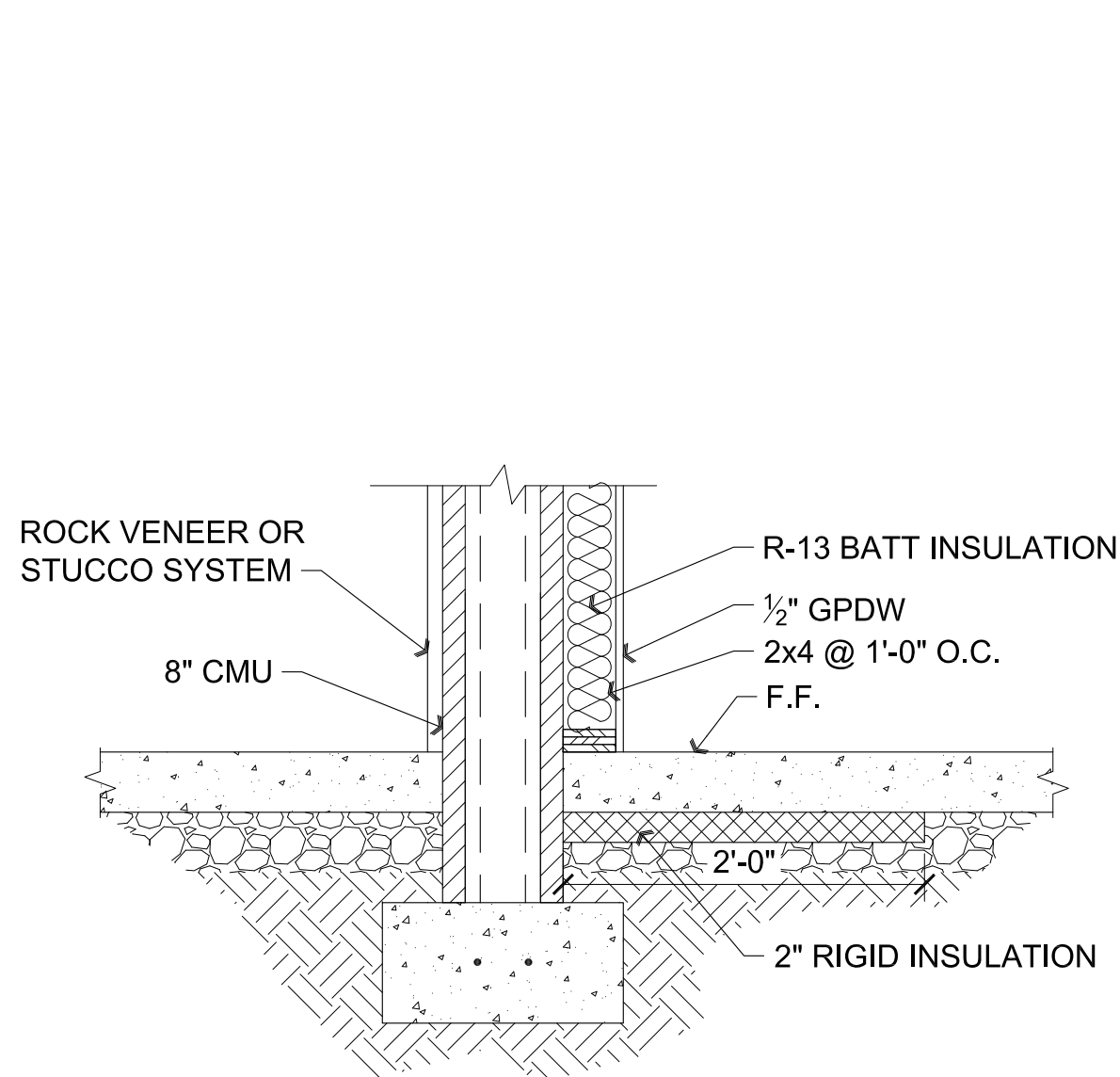
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CHECKED BY W.A.K.
DATE JANUARY 27, 2016
SCALE AS NOTED
JOB NO. 674
SHEET

A11.1

Jan 29, 2016 - 8:39am

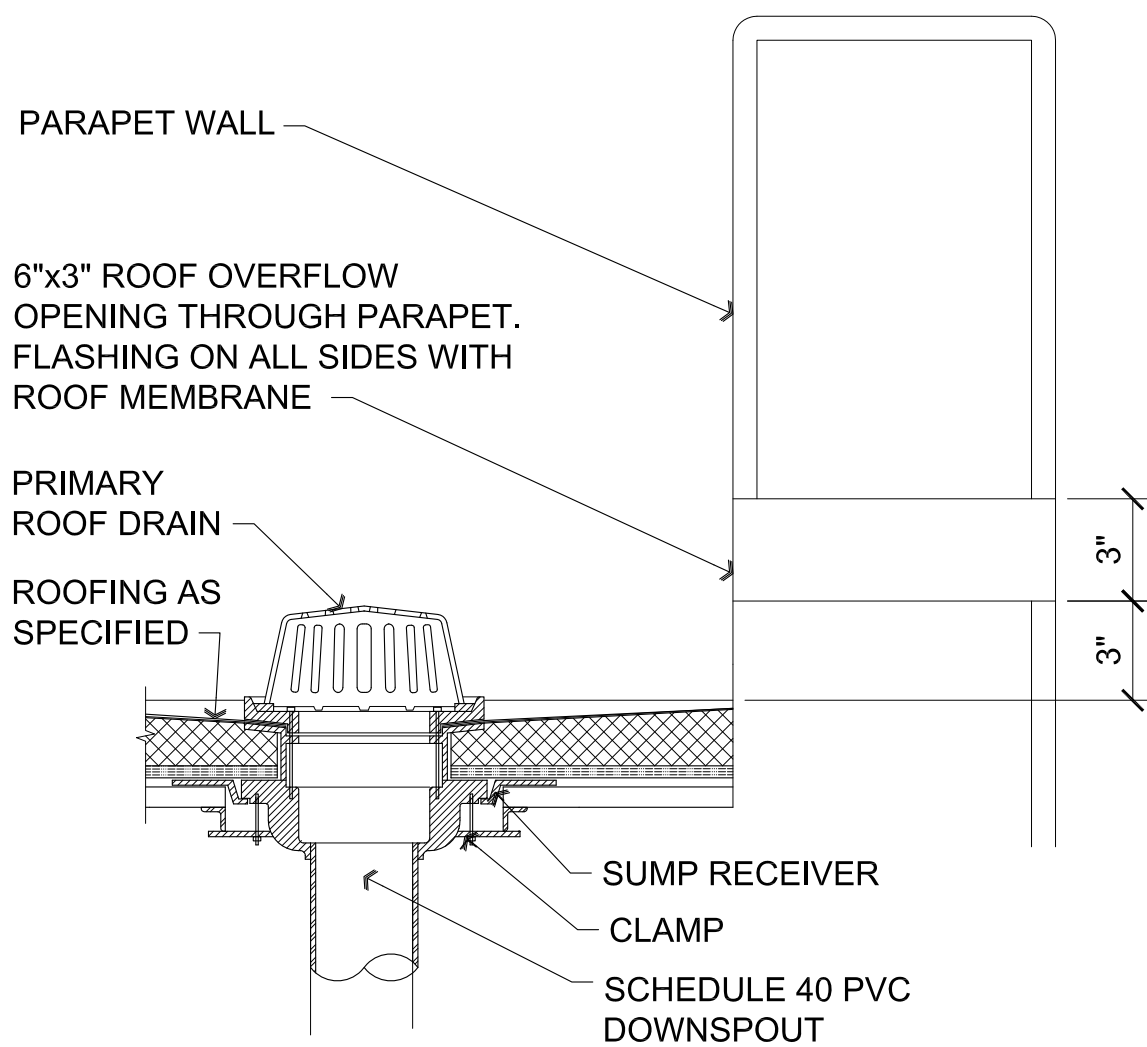
A1 Mass Wall Detail

SCALE: 1" = 1'-0"



B1 Roof Drain

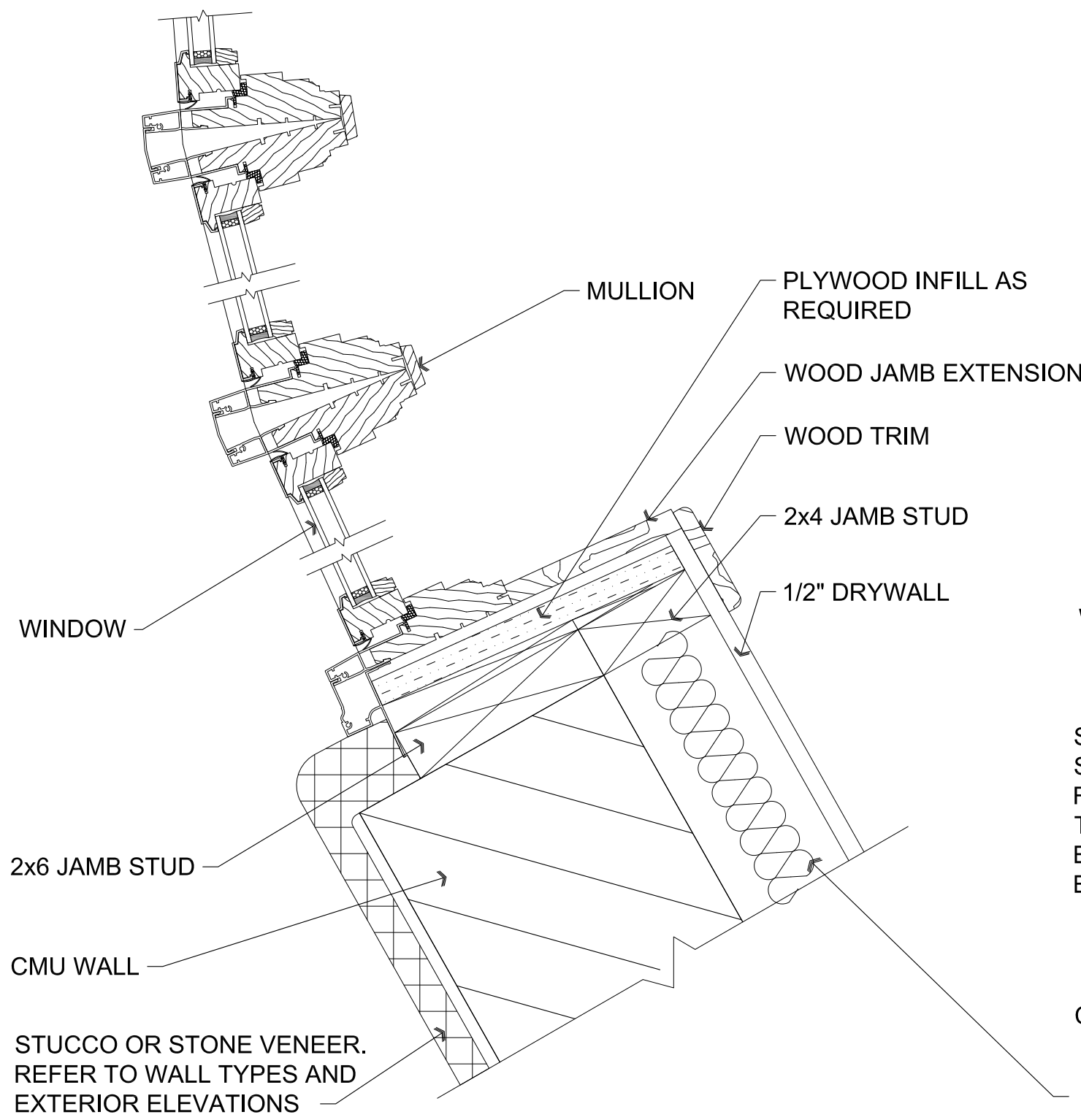
SCALE: N.T.S.



NOTE: CONTRACTOR TO INSTALL ROOF DRAIN IN ACCORDANCE WITH MANUFACTURERS WRITTEN SPECIFICATIONS AND INDUSTRY STANDARD

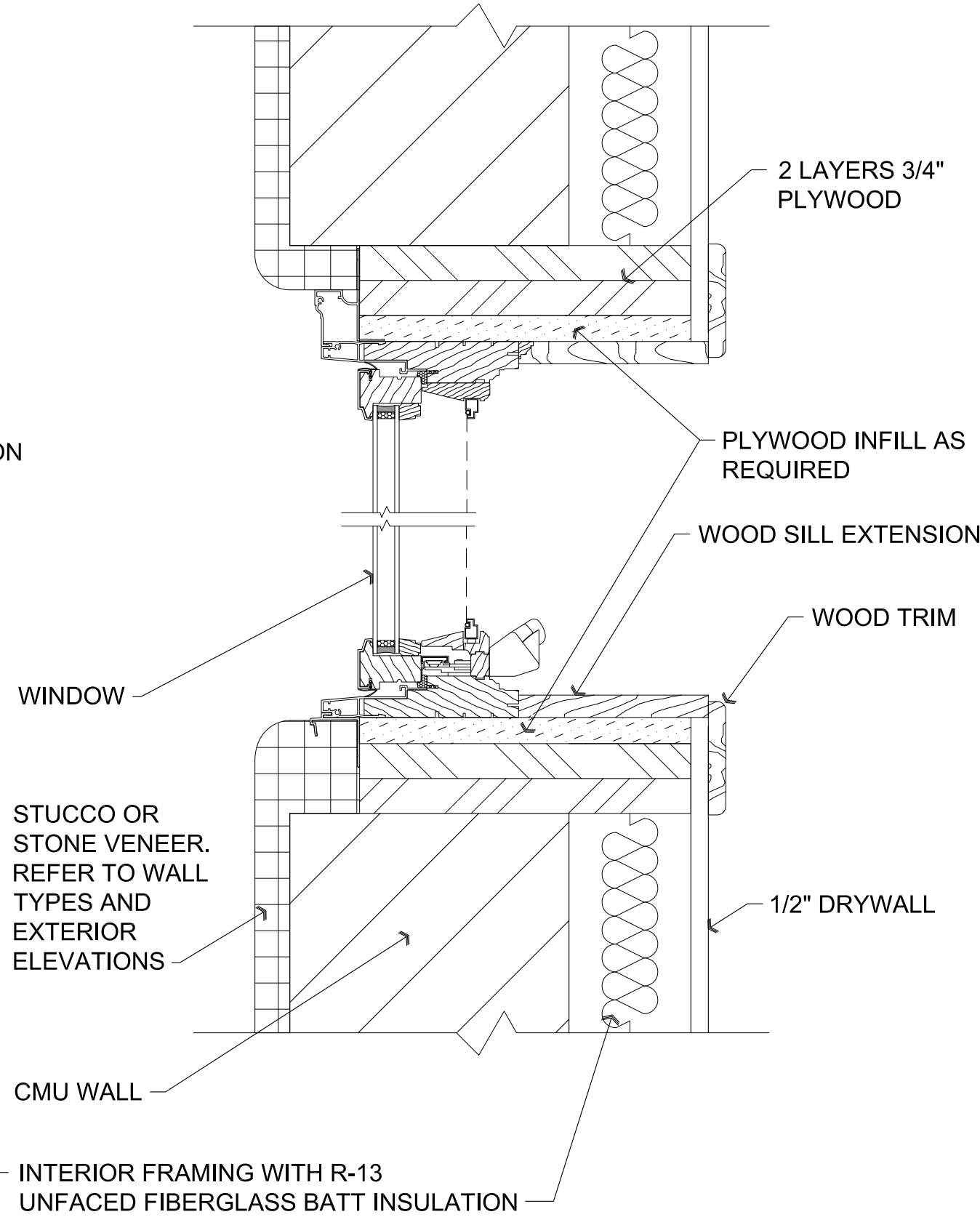
B2 Window Jamb at CMU

SCALE: 3" = 1'-0"



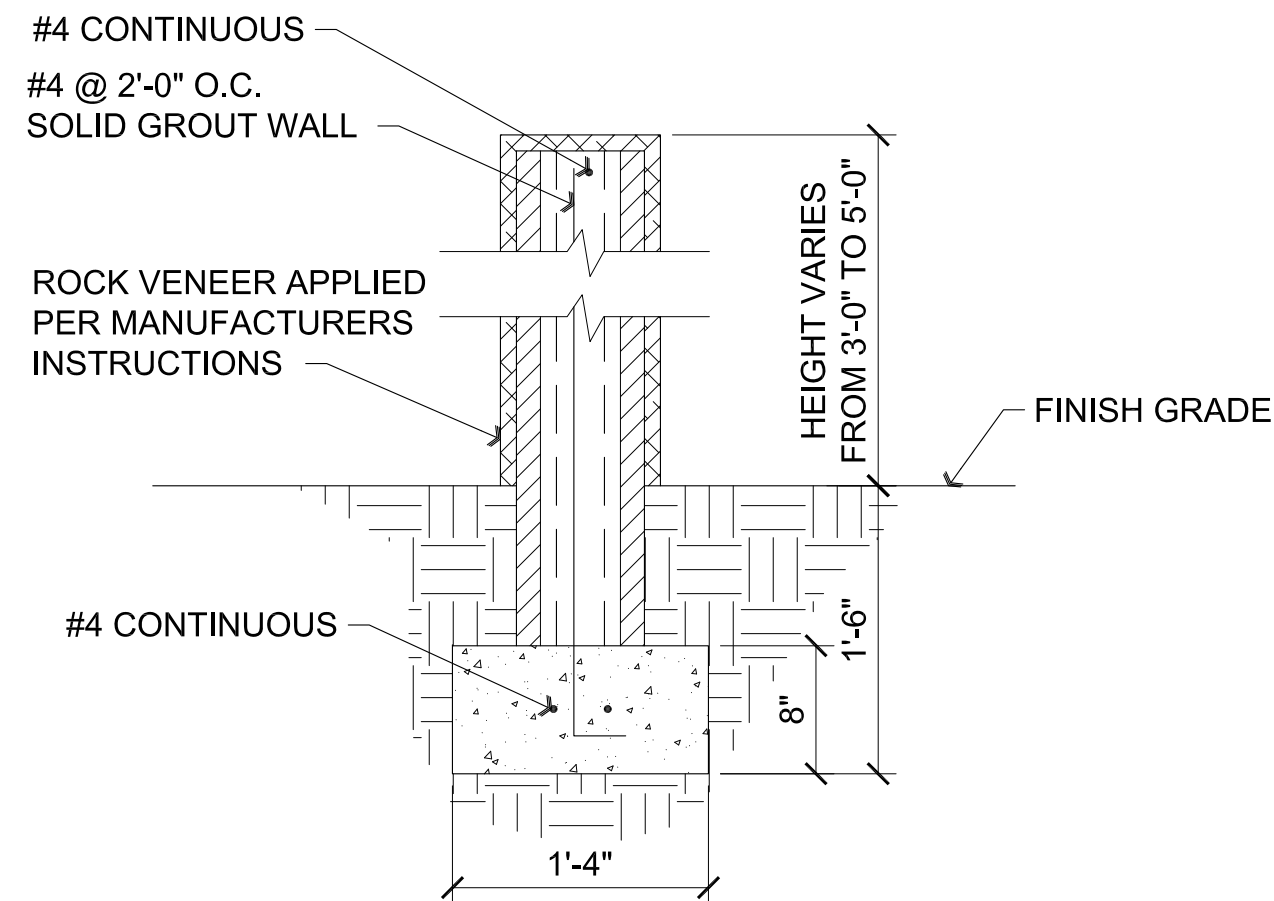
C2 Window Sill and Head at CMU

SCALE: 3" = 1'-0"



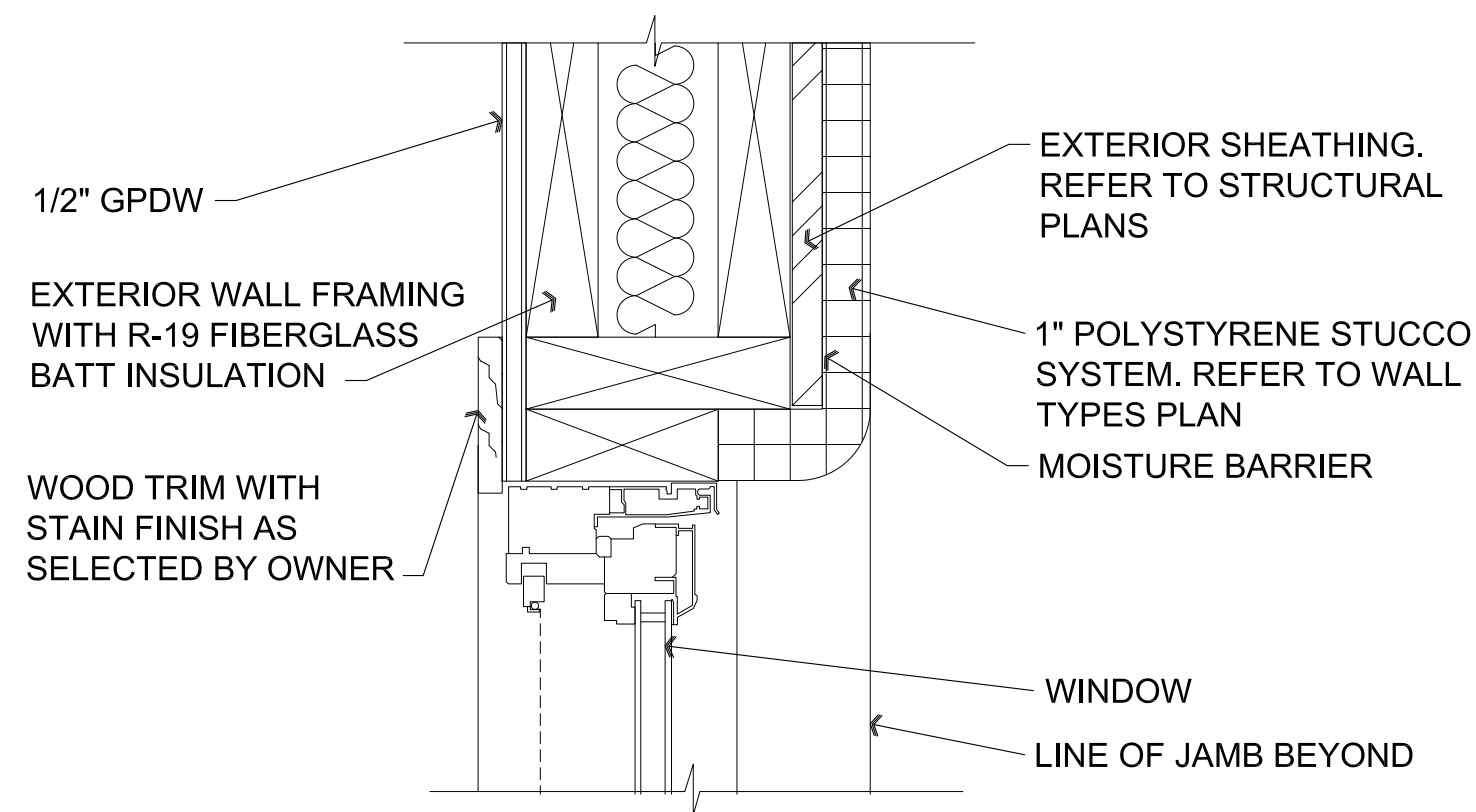
C1 CMU Wall Section

SCALE: 1" = 1'-0"



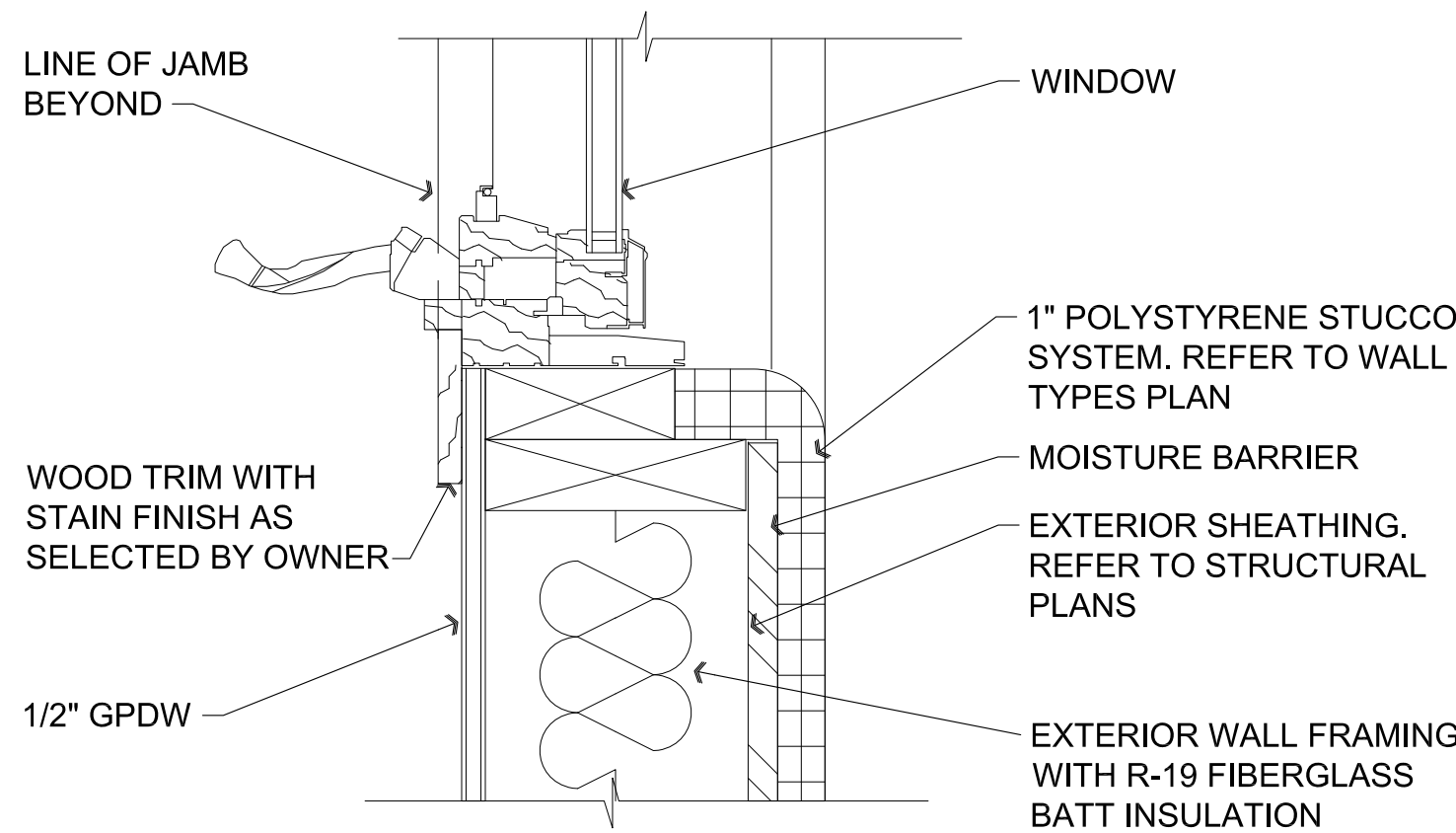
D2 Window Head at Stucco

SCALE: 3" = 1'-0"



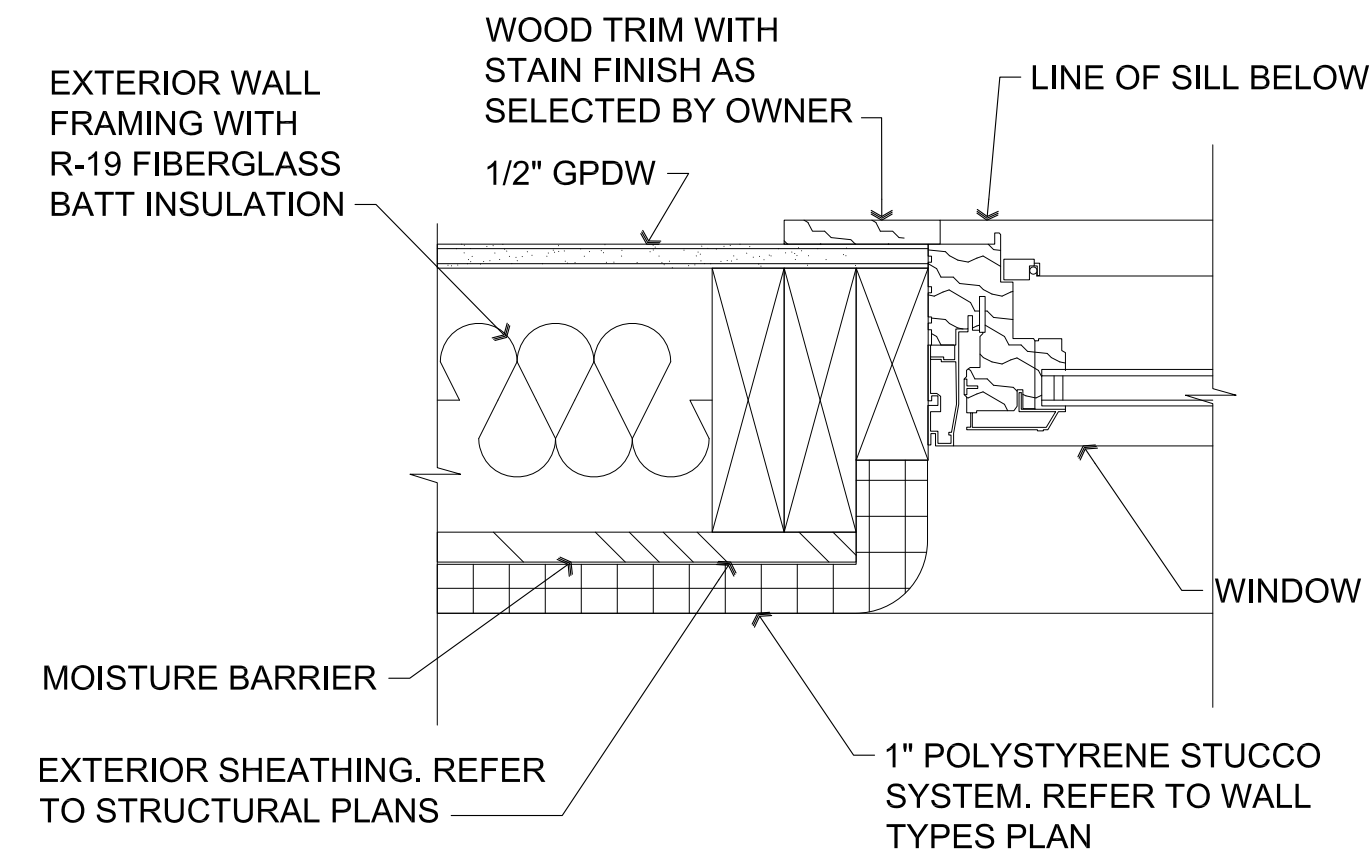
D3 Window Sill at Stucco

SCALE: 3" = 1'-0"



D1 Window jamb at Stucco

SCALE: 3" = 1'-0"



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ARCHITECTURE & PLANNING

DRAWING: DETAILS

PROJECT: Lembe-Mellul Residence
12255 State Rd.
Prescott, AZ 86305

DRAWN BY L.O.
CHECKED BY W.A.K.
DATE JANUARY 27, 2016
SCALE AS NOTED
JOB NO. 674
SHEET

A12.0

GENERAL REQUIREMENTS:

- THE STRUCTURAL SYSTEMS AND MEMBERS DEPICTED HEREIN HAVE BEEN DESIGNED PRIMARILY TO SAFEGUARD AGAINST MAJOR STRUCTURAL DAMAGE AND LOSS OF LIFE, NOT TO LIMIT DAMAGE OR MAINTAIN FUNCTION (IBC SECTION 101.3).
- THESE DRAWINGS, AND THEIR ASSOCIATED STRUCTURAL CALCULATIONS, HAVE BEEN PERFORMED USING STANDARDS OF PROFESSIONAL CARE AND COMPLETENESS NORMALLY EXERCISED UNDER SIMILAR CIRCUMSTANCES BY REPUTABLE STRUCTURAL ENGINEER'S IN THIS OR SIMILAR LOCALITIES. THEY NECESSARILY ASSUME THAT THE WORK DEPICTED WILL BE PERFORMED BY AN EXPERIENCED CONTRACTOR AND/OR WORKMEN WHO HAVE A WORKING KNOWLEDGE OF THE INTERNATIONAL BUILDING CODE, CONVENTIONAL FRAMING REQUIREMENTS AND OF INDUSTRY ACCEPTED STANDARD GOOD PRACTICE. AS NOT EVERY CONDITION OR FRAMING ELEMENT IS (OR CAN BE) EXPLICITLY SHOWN ON THESE DRAWINGS, IT IS UNDERSTOOD THAT THE CONTRACTOR WILL USE INDUSTRY ACCEPTED STANDARD GOOD PRACTICE FOR ALL MISCELLANEOUS WORK NOT EXPLICITLY SHOWN.
- THESE DRAWINGS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES. CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FRAMED CONSTRUCTION SUCH THAT DESIGN LIVE LOAD PER SQUARE FOOT AS STATED HEREIN IS NOT EXCEEDED. OPTIONS ARE FOR CONTRACTOR'S CONVENIENCE. IF AN OPTION IS USED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY CHANGES, AND SHALL COORDINATE ALL DETAILS.
- WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL STRUCTURAL NOTES AND SPECIFICATIONS, THE GREATER REQUIREMENTS SHALL GOVERN. TYPICAL DETAILS AND NOTES ARE NOT NECESSARILY INDICATED ON THE PLANS, BUT SHALL APPLY NONE-THE-LESS. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT. DETAILS MAY SHOW ONLY ONE SIDE OF CONNECTION OR MAY OMIT INFORMATION FOR CLARITY.
- ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL WITH APPROPRIATE TRADES. DRAWINGS AND SUBCONTRACTORS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO START OF CONSTRUCTION. RESOLVE ANY DISCREPANCY WITH THE ARCHITECT AND STRUCTURAL ENGINEER.
- ANY INSPECTIONS, SPECIAL (IBC CHAPTER 17) OR OTHERWISE THAT ARE REQUIRED BY THE BUILDING CODES, LOCAL BUILDING DEPARTMENTS, OR BY THESE PLANS SHALL BE DONE BY AN INDEPENDENT INSPECTION COMPANY OR THE BUILDING DEPARTMENT. SITE VISITS BY THE STRUCTURAL ENGINEER DO NOT CONSTITUTE AN OFFICIAL INSPECTION, UNLESS SPECIFICALLY CONTRACTED FOR.

BASIS FOR DESIGN:

- BUILDING CODE: 2012 EDITION OF THE IBC WITH CITY/COUNTY AMENDMENTS.

RISK CATEGORY = II
- VERTICAL LOADS:

LOCATION	LIVE / SNOW LOAD	DEAD LOAD
ROOF	20 PSF	15 PSF

SEISMIC DESIGN PARAMETERS:

ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE PROCEDURE
IMPORTANCE FACTOR	Ie = 1.00
SITE CLASS	D
SEISMIC DESIGN CATEGORY	C
SPECTRAL RESPONSE ACCELERATIONS	Sms = 0.511, Sm1 = 0.235
SPECTRAL RESPONSE COEFFICIENTS	Sds = 0.340, Sd1 = 0.157
HORIZONTAL SHEAR TRANSFER ELEMENTS:	
PLYWOOD – FLEXIBLE DIAPHRAM(S)	R = 6.5
VERTICAL SHEAR TRANSFER ELEMENTS:	
GYBOARD SHEARWALL(S)	R = 2.0
PLYWOOD SHEARWALL(S)	R = 6.5
INTERMEDIATE MASONRY SHEARWALL(S)	R = 3.5

WIND DESIGN PARAMETERS (STRENGTH):

ULTIMATE WIND SPEED	115 MPH (3 SECOND GUST)
WIND EXPOSURE	C
IMPORTANCE FACTOR	Iw = 1.00
INTERNAL PRESSURE COEFFICIENT	–0.18
COMPONENT AND CLADDING PRESSURE	31.1 PSF
NET UPLIFT ON ROOF	6.3 PSF

FOUNDATION NOTES:

- FOUNDATIONS DESIGNED IN CONFORMANCE WITH RECOMMENDATIONS BY: **ENGINEERING TESTING CONSULTANTS, INC. REPORT NO. 9086 DATED JANUARY 26, 2016.**

- SITE PREPARATION AND GRADING REQUIREMENTS OF THE SOIL REPORT AND ANY ADDENDUM'S SHALL BE COMPLETED PRIOR TO CONSTRUCTION OF FOUNDATIONS. ANY TESTS OR INSPECTIONS REQUIRED BY THE SOIL REPORT SHALL BE PERFORMED PRIOR TO PLACEMENT OF FOUNDATION REINFORCING STEEL OR CONCRETE. ALTERATIONS TO SITE PREPARATION OR GRADING SHALL BE REPORTED TO THE GEOTECHNICAL ENGINEER PRIOR TO FOUNDATION CONSTRUCTION.

THE SOIL DESIGN VALUES FOR THE FOUNDATION ARE:

ALLOWABLE BEARING PRESSURE	2000 PSF
ALLOWABLE LATERAL BEARING PRESSURE	300 PSF/FT
ALLOWABLE LATERAL SLIDING COEFFICIENT	0.35
LATERAL BACKFILL PRESSURE (UNRESTRAINED)	35 PSF/FT
LATERAL BACKFILL PRESSURE (RESTRAINED)	56 PSF/FT
SITE CLASS	D

- A ONE-THIRD INCREASE IN BEARING PRESSURES IS ALLOWED WITH SEISMIC OR WIND LOAD COMBINATIONS. LATERAL BEARING AND LATERAL SLIDING RESISTANCE MAY BE COMBINED.

FOUNDATION BEARING DEPTH
30" BELOW FINISHED GRADE

- ALL FOUNDATIONS SHALL BEAR ON COMPACTED ENGINEERED FILL 30 INCHES MINIMUM BELOW FINISH GRADE. GRADE IS DEFINED AS TOP OF SLAB FOR INTERIOR FOOTINGS AND LOWEST ADJACENT GRADE WITHIN 5 FEET OF THE BUILDING FOR PERIMETER FOOTINGS. WHERE EXTERIOR PAVING OR CONCRETE IS DIRECTLY ADJACENT TO BUILDING, GRADE IS DEFINED AS TOP OF EXTERIOR PAVING AT LEAST 5 FEET FROM BUILDING. CONCRETE FOOTING EXCAVATIONS SHALL BE CLEAN AND FREE OF LOOSE DEBRIS OR UN-COMPACTED MATERIAL AT TIME OF CONCRETE PLACEMENT.
- CONCRETE SLABS ON GRADE SHALL BE SUPPORTED ON A 4 INCH LAYER OF SELECT FILL MATERIAL ACCORDING TO THE SPECIFICATIONS OF THE SOIL REPORT. FILL MATERIAL SHOULD BE MOISTENED, BUT NOT SATURATED JUST PRIOR TO PLACING CONCRETE.
- BACKFILL AGAINST RESTRAINED WALLS SHALL NOT BE PLACED UNTIL AFTER THE WALLS ARE SUPPORTED BY THE COMPLETION OF INTERIOR FLOOR SYSTEMS AND CONCRETE OR GROUT STRENGTH HAS REACHED THE 28 DAY STRENGTH LISTED BELOW.

CONCRETE:

- MINIMUM 28 DAY CONCRETE STRENGTH SHALL BE AS FOLLOWS:

USE:	CONCRETE STRENGTH:	REMARKS:
FOUNDATIONS	2500 PSI	DESIGNED FOR 2500 PSI
CONCRETE SLABS ON GRADE	3000 PSI	W/O INSPECTION

- ALL NORMAL WEIGHT CONCRETE SHALL BE REGULAR WEIGHT OF 150 POUNDS PER CUBIC FOOT USING HARD-ROCK AGGREGATES. AGGREGATE USED IN CONCRETE SHALL CONFORM TO ASTM C67 FOR ¾", ASTM C57 FOR 1" AND ASTM C467 FOR 1½" AGGREGATE.

- TENSION LAP SPLICES OF REINFORCING STEEL IN CONCRETE SHALL BE AS FOLLOW:

REBAR SIZE	STANDARD LAP	RETAINING WALLS (AT FACE OF WALL)
#3	24"	N/A
#4	32"	41"
#5	39"	51"

LAP SPLICES FOR BEAMS AND FLOOR SLABS SLABS SHALL BE ACCORDING TO CHAPTER 12 OF ACI 318 OR LAP SCHEDULE ON THESE DRAWINGS.

STAGGER SPLICES A MINIMUM OF ONE LAP LENGTH. NO TACK WELDING OF REINFORCING BARS ALLOWED WITHOUT PRIOR REVIEW OF PROCEDURE. WITH THE STRUCTURAL ENGINEER LATEST ACI CODE AND DETAILING MANUAL APPLY. PROVIDE BENT CORNER BARS TO MATCH AND LAP WITH HORIZONTAL BARS AT ALL CORNERS AND INTERSECTIONS PER TYPICAL DETAILS. VERTICAL WALL BARS SHALL BE SPLICED AT OR NEAR FLOOR LINES.

- ALL DIMENSIONS SHOWING THE LOCATION OF REINFORCING STEEL NOT NOTED AS "CLEAR" OR "CLR" ARE TO CENTER OF STEEL. MINIMUM COVER FOR NON-PRESTRESSED CONCRETE REINFORCING SHALL BE AS FOLLOWS:

LOCATION:	MINIMUM COVER	TOLERANCE
CAST AGAINST EARTH (FOOTINGS)	3"	± ¾"
SLABS ON GRADE	1½"	± ¼"
EXPOSED TO EARTH OR WEATHER – #5 AND SMALLER	1½"	± ¾"

- MAXIMUM SLUMP FOR ALL CONCRETE SHALL BE 4". SLUMP FOR EXTERIOR SLABS SHALL BE 6". PORTLAND CEMENT SHALL CONFORM TO ASTM C150. TYPE V CEMENT SHALL BE USED FOR CONCRETE IN CONTACT WITH ALKALINE SOIL, AND TYPE II ELSEWHERE.
- NO MORE THAN 90 MINUTES SHALL ELAPSE BETWEEN CONCRETE BATCHING AND CONCRETE PLACEMENT UNLESS APPROVED BY THE TESTING AGENCY.

- CONCRETE PLACEMENT AND QUALITY SHALL BE PER RECOMMENDATIONS IN ACI 614, ACI 301 AND ACI 318. MECHANICALLY VIBRATE ALL CONCRETE WHEN PLACED, EXCEPT THAT SLABS ON GRADE NEED BE VIBRATED ONLY AROUND AND UNDER FLOOR DUCTS, ETC. CAST CLOSURE POUR, WHERE SHOWN ON PLANS AROUND COLUMNS AFTER COLUMN DEAD LOAD IS APPLIED. REMOVE ALL DEBRIS FROM FORMS BEFORE PLACING CONCRETE.

ALL ITEMS TO BE CAST IN CONCRETE SUCH AS REINFORCING, DOWELS, BOLTS, ANCHORS, PIPES, SLEEVES, ETC., SHALL BE SECURELY POSITIONED IN THE FORMS BEFORE PLACING THE CONCRETE.

- ALL CONCRETE SLABS ON GRADE SHALL BE DIVIDED INTO AREAS BY CONTROL JOINTS (KEYED OR SAW CUT) SUCH THAT ONE SLAB AREA DOES NOT EXCEED 250 SQUARE FEET, OR BE MORE THAN TWO TIMES LONGER THAN THE SLAB AREA WIDTH. THE FOUNDATION PLAN SHOWS A SUGGESTED METHOD OF CONTROL JOINT LAYOUT. IT IS RECOMMENDED THAT SAW CUTS BE MADE WITHIN 16 HOURS OF CONCRETE BATCHING.

KEYED CONTROL JOINTS NEED ONLY OCCUR AT EXPOSED EDGES DURING POURING, ALL OTHER JOINTS MAY BE SAW CUT.

- HORIZONTAL PIPES AND ELECTRICAL CONDUITS SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE AND SLABS ON GRADE EXCEPT WHERE SPECIFICALLY APPROVED OR NOTED BY THE STRUCTURAL ENGINEER. PIPES AND CONDUITS SHALL NOT IMPAIR THE STRENGTH OF THE WORK.

- FLY ASH MAY BE USED ONLY IF PERMITTED BY ARCHITECTURAL SPECIFICATIONS AND SHALL BE LIMITED TO 18 PERCENT OF CEMENTITIOUS MATERIALS AND SHALL HAVE A REPLACEMENT FACTOR OF 1.2. RELATIVE CEMENT REPLACED, NO FLY ASH ADDITIVES SHALL BE USED IN FLATWORK OR ARCHITECTUALLY EXPOSED CONCRETE.

- COLD/HOT WEATHER CONCRETE CONSTRUCTION: PROTECT CONCRETE FROM DAMAGE OR REDUCED STRENGTH IN COMPLIANCE WITH ACI 305 AND 306.

- CONCRETE MIXES SHALL BE DESIGNED BY A CERTIFIED LABORATORY AND APPROVED BY THE STRUCTURAL ENGINEER.

GENERAL STRUCTURAL NOTES

(APPLY UNLESS NOTED OTHERWISE ON PLANS/DETAILS)

MASONRY (CONCRETE BLOCK):

MINIMUM 28 DAY MASONRY STRENGTH SHALL BE 1500 PSI.

- VERTICAL REINFORCING: #5 AT 48 INCHES ON CENTER FULL HEIGHT OF WALL, CENTERED IN GROUTED CELL AND AT ALL WALL INTERSECTIONS, CORNERS, WALL ENDS, JAMBS, OVER LINTELS, AND EACH SIDE OF CONTROL JOINTS (MINIMUM UNLESS NOTED OTHERWISE ON PLANS/DETAILS). TIE AT 8'-0" VERTICALLY, WITH SINGLE WIRE LOOP TIE OR EQUIVALENT. DOWEL ALL REINFORCING TO FOUNDATION WITH DOWELS TO MATCH AND LAP VERTICAL WALL OR COLUMN REINFORCING.
- CONTROL JOINTS: UNLESS NOTED OTHERWISE ON THE PLANS, PLACE CONTROL JOINTS IN MASONRY WALLS SUCH THAT NO STRAIGHT RUN OF WALL EXCEEDS 24'-0". CONTROL JOINTS SHALL NOT OCCUR AT WALL CORNERS, INTERSECTIONS, ENDS, WITHIN 24" OF CONCENTRATED POINTS OF BEARING OR JAMBS, OR OVER OPENINGS UNLESS SPECIFICALLY SHOWN ON THE STRUCTURAL DRAWINGS.
- HORIZONTAL REINFORCING: (MINIMUM UNLESS NOTED OTHERWISE ON PLANS/DETAILS) (2) #4 BARS IN CENTER OF 16 INCH DEEP MINIMUM CONTINUOUS GROUTED BOND BEAM AT ELEVATED FLOOR AND ROOF LINES. FOR 8 INCH THICK WALLS, ONE #4 BAR IN CENTER OF 8 INCH DEEP CONTINUOUS GROUTED BOND BEAM AT INTERVALS NOT TO EXCEED 48 INCHES ON CENTER AND AT TOP OF PARAPET OR FREE STANDING WALLS.

HORIZONTAL BARS AT TOP OF PARAPET OR FREE STANDING WALLS SHALL BE PLACED 8 INCHES DOWN FROM THE TOP IN AN UPSIDE DOWN BOND BEAM BLOCK.

PLACE HORIZONTAL BARS CONTINUOUS THROUGH CONTROL JOINTS. PROVIDE BENT BARS PER TYPICAL DETAILS, TO MATCH HORIZONTAL BOND BEAM REINFORCING, AT CORNERS AND WALL INTERSECTION TO MAINTAIN BOND BEAM CONTINUITY.

- TENSION LAP SPLICES OF REINFORCING STEEL IN MASONRY SHALL BE AS FOLLOWS:

REBAR SIZE	STANDARD LAP	RETAINING WALLS (AT FACE OF WALL)
#4	24"	30"
#5	30"	46"

- REINFORCING PLACEMENT TOLERANCES: ALL DIMENSIONS SHOWING THE LOCATION OF REINFORCING STEEL NOT NOTED AS "CLEAR" OR "CLR" ARE TO CENTER OF STEEL. TOLERANCES FOR PLACEMENT OF VERTICAL REINFORCING SHALL BE: (1) ½" PERPENDICULAR TO WALL AND (1) 2" ALONG THE LENGTH OF THE WALL. PROVIDE ½" CLEARANCE BETWEEN MASONRY UNITS AND REINFORCING, AND REINFORCING RUNNING IN THE SAME DIRECTION. LAPS MAY BE BESIDE OR OVER THE REINFORCING BEING SPLICED.
- BLOCK QUALITY: CONCRETE BLOCK SHALL BE LIGHTWEIGHT LOAD-BEARING CONCRETE MASONRY UNITS CONFORMING TO ASTM 90-75 WITH A MINIMUM COMPRESSIVE STRENGTH OF 1900 PSI. USE BOND BEAM UNITS AT HORIZONTAL REINFORCING.
- MORTAR: MORTAR MIX SHALL CONFORM TO REQUIREMENTS OF THE IBC STANDARDS, TYPE M OR S. MORTAR SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 1800 PSI AT 28 DAYS.
- GROUT: GROUT SHALL CONFORM TO REQUIREMENTS OF CHAPTER 21 OF THE IBC FOR COARSE GROUT. USE SUFFICIENT WATER FOR GROUT TO FLOW INTO ALL JOINTS OF THE MASONRY WITHOUT SEGREGATION. GROUT SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI AT 28 DAYS. ALL CELLS IN CONCRETE BLOCKS CONTAINING REINFORCING SHALL BE FILLED SOLID WITH GROUT. ALL MASONRY BELOW FINISHED FLOOR OR GRADE SHALL BE GROUTED SOLID. ALL GROUT SHALL BE MECHANICALLY VIBRATED.
- GROUT LIFTS OF 5 FEET OR LESS IS RECOMMENDED. FOR HIGHER GROUT LIFTS, CLEANOUTS (3"x3") AT THE BOTTOM OF ALL VERTICALLY REINFORCED CELLS SHALL BE PROVIDED. IN ADDITION, MECHANICAL DEVICES SHALL BE USED TO POSITION AND SECURE REINFORCING WHEN GROUT LIFTS EXCEED 5 FEET IN HEIGHT. IN SOLID GROUTED MASONRY, CLEANOUTS SHALL NOT BE SPACED MORE THAN 32' O.C.
- BLOCK CONSTRUCTION: ALL BLOCKS SHALL BE PLACED IN RUNNING BOND CONSTRUCTION (UNLESS OTHERWISE NOTED) WITH ALL VERTICAL CELLS IN ALIGNMENT.
- MISCELLANEOUS LINTELS: FOR MISCELLANEOUS OPENINGS (4'-8" OR LESS) NOT SHOWN ON PLANS OR IN A SCHEDULE, BUT REQUIRED BY OTHER DISCIPLINES (MECHANICAL, ELECTRICAL, PLUMBING, ETC.) THE FOLLOWING OPTIONS MAY BE USED IN 8" MASONRY WALLS.

OPTION #1: GROUTED REINFORCED MASONRY LINTEL: REINFORCE WITH (2) #4 HORIZONTAL BARS IN BOTTOM OF BOND BEAM AT LINTEL BLOCK AND SHALL BE GROUTED SOLID TO A MINIMUM DEPTH OF 12 INCHES. ALL LINTEL REINFORCING AND GROUT SHALL EXTEND 16 INCHES PAST JAMBS.

OPTION #2: DOUBLE ANGLE LINTELS: USE (2) L3x3x3x½ BACK-TO-BACK. PROVIDE 12" MINIMUM OF GROUT OVER LINTELS. BEARING FOR STEEL ANGLE LINTELS SHALL BE 4" (±) 1" AT EACH JAMB.

OPTION #3: POWERS STEEL LINTEL: PS8-8. GROUT LINTEL 8" DEEP. BEARING FOR POWERS STEEL LINTELS SHALL BE 4" (±) 1" AT EACH JAMB.

THESE LINTELS, OR THE OPENING THEY SPAN, SHALL NOT BE PLACED SO AS TO INTERFERE WITH THE REQUIREMENTS OF OTHER STRUCTURAL ELEMENTS (I.E. BOND BEAMS, LINTELS, CONTROL JOINTS, CONCENTRATED POINTS OF BEARING, ETC.) WITHOUT THE PRIOR APPROVAL OF THE STRUCTURAL ENGINEER.

SOLID GROUT SHALL BE PROVIDED BETWEEN WEBS AND MASONRY FACE SHELLS FOR FULL LENGTH OF ALL STEEL LINTELS. MORTAR MAY BE USED FOR GROUT FOR THIS PURPOSE ONLY. FACE UNITS, SOAPS, ROMANS, ETC., SHALL BE LAID WITH FULL HEAD AND BED JOINTS.

FOR ADDITIONAL INFORMATION AT OPENINGS IN MASONRY WALLS, SEE TYPICAL DETAILS.

REINFORCING STEEL:

- ASTM A615 GRADE 60 (FY = 60 KSI) DEFORMED BARS FOR ALL BARS #5 AND LARGER. ASTM A615 GRADE 40 (FY = 40 KSI) DEFORMED BARS FOR ALL BARS #4 AND SMALLER. GRADE 60 DEFORMED BARS SHALL BE USED FOR CONCRETE WALLS, BEAMS, ELEVATED SLABS AND COLUMN REINFORCING.
- WELDING OF REINFORCING BARS SHALL BE MADE ONLY TO ASTM A706 GRADE 60 BARS AND ONLY USING E90 SERIES RODS. WELDING OF REINFORCING BARS SHALL BE MADE ONLY AT LOCATIONS SHOWN ON PLANS OR DETAILS.
- REINFORCING BAR SPACING GIVEN ARE MAXIMUM ON CENTERS. ALL BARS PER CRSI SPECIFICATIONS AND HANDBOOK. DOWEL ALL VERTICAL REINFORCING TO FOUNDATION. SECURELY TIE ALL BARS IN LOCATION BEFORE PLACING CONCRETE.

STEEL:

- MATERIALS: ROLLED W SHAPES, SHALL CONFORM TO ASTM A992 (FY=50 KSI). ALL OTHER STRUCTURAL STEEL SHAPES, ROLLED SECTIONS, BARS AND PLATES SHALL CONFORM TO ASTM A36 (FY = 36 KSI). ALL PIPE STEEL SHALL BE ASTM A501 (FY = 36 KSI) OR ASTM A53, TYPE E OR S, GRADE B (FY = 35 KSI). ALL TUBULAR STEEL SHALL BE ASTM A500 (FY = 46 KSI).
- ALL BOLTS AND STUDS SHALL BE ASTM A307, UNLESS NOTED OTHERWISE. ALL EXPANSION BOLTS TO HAVE CURRENT ICBO RATING FOR MATERIAL INTO WHICH INSTALLATION TAKES PLACE. HEADED STUDS SHALL CONFORM TO ALL REQUIREMENTS OF THE LATEST EDITION OF THE "RECOMMENDED PRACTICES FOR STUD WELDING" AND THE "STRUCTURAL WELDING CODE" PUBLISHED BY AWS. ALL BOLTS, ANCHOR BOLTS, EXPANSION BOLTS, ETC. SHALL BE INSTALLED WITH STEEL WASHERS AT FACE OF WOOD OR AT SLOTTED HOLES IN STEEL SECTIONS.
- ALL STRUCTURAL AND MISCELLANEOUS STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH AISC SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS, LATEST EDITION.
- WELDING SHALL BE BY WELDERS HOLDING VALID CERTIFICATES AND HAVING CURRENT EXPERIENCE IN THE TYPE OF WELD SHOWN ON THE DRAWINGS OR NOTES. ALL WELDING SHALL USE E70 SERIES LOW HYDROGEN RODS UNLESS NOTED OTHERWISE. ALL WELDING PER LATEST AMERICAN WELDING SOCIETY STANDARDS. ALL WELDS ON DRAWINGS ARE SHOWN AS SHOP WELDS. CONTRACTOR MAY SHOP WELD OR FIELD WELD AT HIS DISCRETION. ALL FULL PENETRATION WELDS SHALL BE TESTED AND CERTIFIED BY AN INDEPENDENT TESTING LABORATORY.
- STEEL TO STEEL BOLTED CONNECTIONS: HIGH STRENGTH BOLTS SHALL BE ASTM A325M AND SHALL BE INSTALLED AS BEARING-TYPE CONNECTIONS WITH THREADS INCLUDED IN SHEAR PLANE (TYPE "N" CONNECTION). BOLTS MAY BE TIGHTENED USING ANY AISC APPROVED METHOD.
- DRYPACK SHALL BE 5,000 PSI FIVE STAR NON-SHRINK GROUT OR EQUIVALENT. INSTALL DRYPACK UNDER BEARING PLATES BEFORE FRAMING MEMBER IS INSTALLED. AT COLUMNS, INSTALL DRYPACK UNDER BASE PLATES AFTER COLUMN HAS BEEN PLUMBED BUT PRIOR TO FLOOR OR ROOF INSTALLATION.

WOOD:

- SAWN LUMBER: FRAMING LUMBER SHALL COMPLY WITH THE LATEST EDITION OF THE NATIONAL WOOD PRODUCT ASSOCIATION'S (NWA) RULES OF THE TRADE. WOOD (WVPA) OR THE WEST COAST LUMBER INSPECTION BUREAU (WCLIB). ALL SAWN LUMBER SHALL BE STAMPED WITH THE GRADE MARK OF AN APPROVED LUMBER GRADING AGENCY. SAWN LUMBER SHALL HAVE THE FOLLOWING MINIMUM GRADE UNLESS NOTED OTHERWISE IN SCHEDULES:

USE:	MATERIAL:
2X4 STUDS	HEM-FIR STUD
2X6 STUDS	HEM-FIR NO. 2
JOISTS, TOP PLATES AND ALL OTHER SAWN LUMBER	DOUGLAS-FIR NO. 2 OR BETTER
BEAMS AND POSTS	DOUGLAS-FIR NO. 2 OR BETTER

- PLYWOOD: ALL PLYWOOD SHALL BE C-D OR C-C SHEATHING CONFORMING TO STANDARD PS 1-35. LAY UP PLYWOOD WITH FACE GRAIN IN PERPENDICULAR TO SUPPORTS (ON ROOFS WHERE PLYWOOD IS LAID UP WITH FACE GRAIN PARALLEL TO SUPPORTS, USE A MINIMUM OF 5-PLY PLYWOOD, STAGGER JOINTS). ALL NAILING, COMMON NAILS. BLOCKING AT PANEL EDGES WHERE INDICATED ON PLANS. ALL PLYWOOD SHALL HAVE THE FOLLOWING NOMINAL THICKNESS, SPAN/INDEX RATING AND SHALL BE NAILED AS FOLLOWS UNLESS NOTED OTHERWISE ON THE PLANS:

LOCATION:	NOMINAL THICKNESS:	SPAN INDEX RATING:	EDGE ATTACHMENT:	FED ATTACHMENT:
WALLS	½" OR ¾"	2½	8d AT 6" O.C.	8d AT 12" O.C.
ROOF	½"	3½	10d AT 6" O.C.	10d AT 12" O.C.

PLYWOOD ALTERNATE: AMERICAN PLYWOOD ASSOCIATION PERFORMANCE RATED SHEATHING MAY BE USED AS AN ALTERNATE TO PLYWOOD WITH PRIOR APPROVAL OF OWNER, ARCHITECT AND ROOFER. IT MAY NOT BE USED ON ROOFS WHERE BUILT-UP ROOF SYSTEM IS TO BE GUARANTEED BY ROOFER. RATED SHEATHING SHALL COMPLY WITH ICBO REPORT NER-108, EXPOSURE 1, AND SHALL HAVE A SPAN RATING EQUIVALENT TO OR BETTER THAN THE PLYWOOD IT REPLACES. ATTACHMENT AND THICKNESS (WITHIN ½") SHALL BE THE SAME AS THE PLYWOOD IT REPLACES. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

- GLUED-LAMINATED BEAMS (GLULAM): GLUED-LAMINATED BEAMS SHALL BE DOUGLAS FIR COMBINATION AT 24F-V4 AT SIMPLE SPAN BEAMS AND 24F-V8 AT CANTILEVERED BEAMS WITH THE FOLLOWING MINIMUM PROPERTIES: FB = 2,400 PSI, FV = 180 PSI, FC (PERPENDICULAR) = 650 PSI, E =1,800 KS. ALL BEAMS SHALL BE FABRICATED USING WATERPROOF GLUE. FABRICATION AND HANDLING PER LATEST AITC AND WCLA STANDARDS. BEAMS TO BEAR GRADE STAMP AND AITC STAMP AND CERTIFICATE CAMBER AS SHOWN ON DRAWINGS. STANDARD CAMBER IS BASED ON A RADIUS OF CURVATURE OF 2000 FEET.

- LAMINATED VENEER LUMBER: DESIGN, FABRICATION AND ERECTION IN ACCORDANCE WITH LATEST EDITION OF ICBO REPORT NER-119, OR OTHER EQUIVALENT REPORT. LAMINATED VENEER LUMBER SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: FB = 2,600 PSI, FV = 285 PSI, E = 1,900 KSI.

- PARALLEL STRAND LUMBER: DESIGN, FABRICATION AND ERECTION IN ACCORDANCE WITH LATEST EDITION OF ICBO REPORT NER-292, OR OTHER EQUIVALENT REPORT. LAMINATED VENEER LUMBER SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: FB = 2,900 PSI, FV = 290 PSI, E =2,000 KSI.

- SILL PLATES RESTING ON CONCRETE OR MASONRY SHALL BE OF TREATED FIR OR FOUNDATION GRADE REDWOOD. SHEAR WALLS AND EXTERIOR WALL SILLS AT CONCRETE SLAB SHALL HAVE A MINIMUM OF (2) ½"Ø ANCHOR BOLTS PER PIECE. PROVIDE ANCHOR BOLT AT 9" MAXIMUM, 4" MINIMUM FROM THE END OF EACH PIECE AT SPICE OR END OF WALL. MAXIMUM ANCHOR BOLT SPACING SHALL BE 72" ON CENTER UNLESS NOTED OTHERWISE ON PLANS OR DETAILS. ALL ANCHOR BOLTS (OTHER THAN BOLTS FOR HOLDOWNS) SHALL EMBED 2" INTO CONCRETE. ANCHOR BOLTS FOR HOLDOWNS SHALL NOT BE CONSIDERED AS PART OF REQUIRED ANCHOR BOLTS ON SHEAR WALLS. ALL EXTERIOR WALLS SHALL BE SECURED WITH MINIMUM ANCHOR BOLTS. INTERIOR WALLS MAY BE SECURED TO CONCRETE WITH EITHER ANCHOR BOLTS OR POWER DRIVEN SHOT PINS UNLESS NOTED OTHERWISE ON PLANS.

- GENERAL: DO NOT NOTCH OR DRILL JOISTS, BEAMS OR LOAD BEARING STUDS WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER THROUGH THE ARCHITECT. DOUBLE UP FLOOR JOISTS AND BLOCKING UNDER PARTITIONS. PROVIDE 2" (NOMINAL) SOLID BLOCKING AT SUPPORTS OF ALL JOISTS UNLESS NOTED OTHERWISE ON PLANS/DETAILS. PROVIDE 2X SOLID BLOCKING AT MID-HEIGHT OF BEARING STUD WALLS. ALL NAILING NOT NOTED SHALL BE ACCORDING TO IBC TABLE 2304.9.1. JOIST HANGERS AND OTHER MISCELLANEOUS FRAMING ANCHORS SHALL BE AS MANUFACTURED BY SIMPSON STRONG-TIE COMPANY, INC. OR OTHER MANUFACTURER WITH CURRENT ICBO APPROVAL.

- BOLTING: ALL BOLTS IN WOOD CONNECTIONS SHALL CONFORM TO ASTM A307. BOLTS SHALL BE INSTALLED IN HOLES BORED WITH A BIT ⅛" LARGER THAN THE Ø (DIAMETER) OF THE BOLT. BOLTS AND NUTS SEATING ON WOOD SHALL HAVE CUT STEEL WASHERS UNDER HEADS AND NUTS. NICK THREADS TO PREVENT LOOSENING.

- PREFABRICATED PLYWOOD WEB I-JOIST/PURLINS (TJI SERIES OR EQUAL): DESIGN, FABRICATION AND ERECTION IN ACCORDANCE WITH THE LATEST EDITION OF ICBO REPORT NER-119. CONNECTIONS AND BEARING MATERIAL TO BE DESIGNED AND FURNISHED BY JOIST FABRICATOR. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS WITH DESIGN CALCULATIONS SEALED BY A REGISTERED STRUCTURAL ENGINEER FOR REVIEW PRIOR TO MANUFACTURE. ADDITIONAL JOISTS SHALL BE SUPPLIED AS REQUIRED TO SUPPORT MECHANICAL EQUIPMENT. TOTAL LOAD DEFLECTIONS SHALL BE LIMITED TO SPAN/240. FLOOR LIVE LOAD DEFLECTIONS SHALL BE LIMITED TO SPAN/480.

GYPSUM BOARD SHEATHING:

- ALL GYPSUM BOARD SHEATHING MATERIALS SHALL CONFORM TO ASTM C79 AND SHALL BE INSTALLED IN ACCORDANCE WITH ASTM C1280. FOUR-FOOT WIDE PIECES OF GYPSUM SHEATHING SHALL BE APPLIED PARALLEL OR PERPENDICULAR TO THE STUDS. TWO-FOOT WIDE PIECES OF GYPSUM SHEATHING SHALL BE APPLIED PERPENDICULAR TO THE STUDS. END JOINTS OF ADJACENT COURSES OF GYPSUM BOARD SHALL BE STAGGERED.
- FOR FIRE RATED WALLS WITH GYPSUM SHEATHING EACH SIDE, GYPSUM SHEATHING SHALL BE INSTALLED SO THAT ALL EDGES ARE SUPPORTED EXCEPT ¾" TYPE-X GYPSUM SHEATHING SHALL BE PERMITTED TO BE INSTALLED HORIZONTALLY WITH THE HORIZONTAL JOINTS STAGGERED 24" FROM THE OPPOSITE SIDE, BUT JOINTS ARE UNSUPPORTED AND FINISHED.

SPECIAL INSPECTION ITEMS:

- THE OWNER SHALL EMPLOY A SPECIAL INSPECTOR DURING CONSTRUCTION OF CERTAIN TYPES OF WORK. PER IBC SECTION 1704 AND THE STRUCTURAL ENGINEER OF RECORD, SPECIAL INSPECTION IS (IS NOT) REQUIRED AS FOLLOWS:

TYPE OF WORK:	REQUIRED:	REMARKS:
CONCRETE SLAB ON GRADE	NO	DESIGN BASED ON f'c=2500 PSI
CONCRETE FOUNDATIONS	NO	DESIGN BASED ON f'c=2500 PSI
REINFORCING STEEL FOR ALL CONCRETE/ MASONRY THAT REQUIRES INSPECTION	YES	PRIOR TO PLACEMENT OF CONCRETE OR GROUT
EPOXY ANCHORS	YES	DURING INSTALLATION OF ANCHORS
WELDING	YES	AFTER WORK IS COMPLETE
STEEL TO STEEL BOLTED CONNECTIONS	YES	AFTER WORK IS COMPLETE
MASONRY (CMU)	YES	DURING PLACEMENT OF GROUT

SPECIAL INSPECTIONS NOT LISTED ABOVE ARE NOT REQUIRED.

- DESIGNATION OF SPECIAL INSPECTOR:

- FOR STRUCTURAL ITEMS LISTED ABOVE, THE SPECIAL INSPECTOR SHALL BE, OR WORK UNDER THE DIRECT SUPERVISION OF THE STRUCTURAL ENGINEER OF RECORD – FROST STRUCTURAL ENGINEERING (928)776-4757.
- FOR GEOTECHNICAL ITEMS LISTED ABOVE, THE SPECIAL INSPECTOR SHALL BE, OR WORK UNDER THE DIRECT SUPERVISION OF THE GEOTECHNICAL ENGINEER OF RECORD. SEE GEOTECHNICAL REPORT FOR CONTACT INFORMATION.
- THE OWNER, AT HIS OPTION, MAY DESIGNATE AN ALTERNATE SPECIAL INSPECTOR, OBTAIN THE REQUIRED CERTIFICATE(S), AND MAKE THE NECESSARY NOTIFICATIONS TO ALL PARTIES INVOLVED. THE ALTERNATE SPECIAL INSPECTOR SHALL BE A LICENSED STRUCTURAL ENGINEER (OR GEOTECHNICAL ENGINEER FOR GEOTECHNICAL ITEMS) OR AN ICBO CERTIFIED SPECIAL INSPECTOR.
- TO SCHEDULE ANY SPECIAL INSPECTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE SPECIAL INSPECTOR AT LEAST ONE DAY IN ADVANCE.

- QUALITY ASSURANCE PROGRAM:

- THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED TO BE CERTAIN IT CONFORMS WITH THE APPROVED DESIGN DRAWINGS AND SPECIFICATIONS.
- THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, AND TO THE STRUCTURAL ENGINEER OF RECORD. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN, IF UNCORRECTED, TO THE DESIGN AUTHORITY AND THE BUILDING OFFICIAL.
- UPON COMPLETION OF THE ASSIGNED WORK THE STRUCTURAL ENGINEER SHALL COMPLETE AND SIGN THE APPROPRIATE FORMS CERTIFYING THAT TO THE BEST OF HIS KNOWLEDGE THE WORK IS IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS, AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE INTERNATIONAL BUILDING CODE.

DRAWING INDEX

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---	S1	GENERAL STRUCTURAL NOTES
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---	S2	FOUNDATION PLAN
---	S3	FRAMING PLAN
101-114	S4	FOUNDATION DETAILS
201-220	S5	FRAMING DETAILS

JOB NO.: 2015-0287	PROJECT MANAGER: AGK	CAO OPERATOR: MJS
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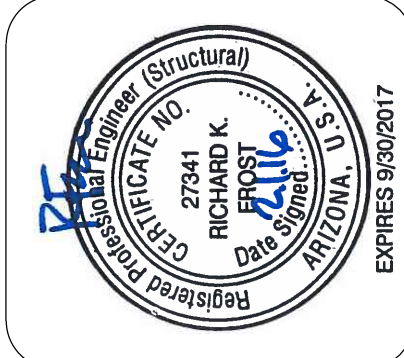
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REVISIONS	BY

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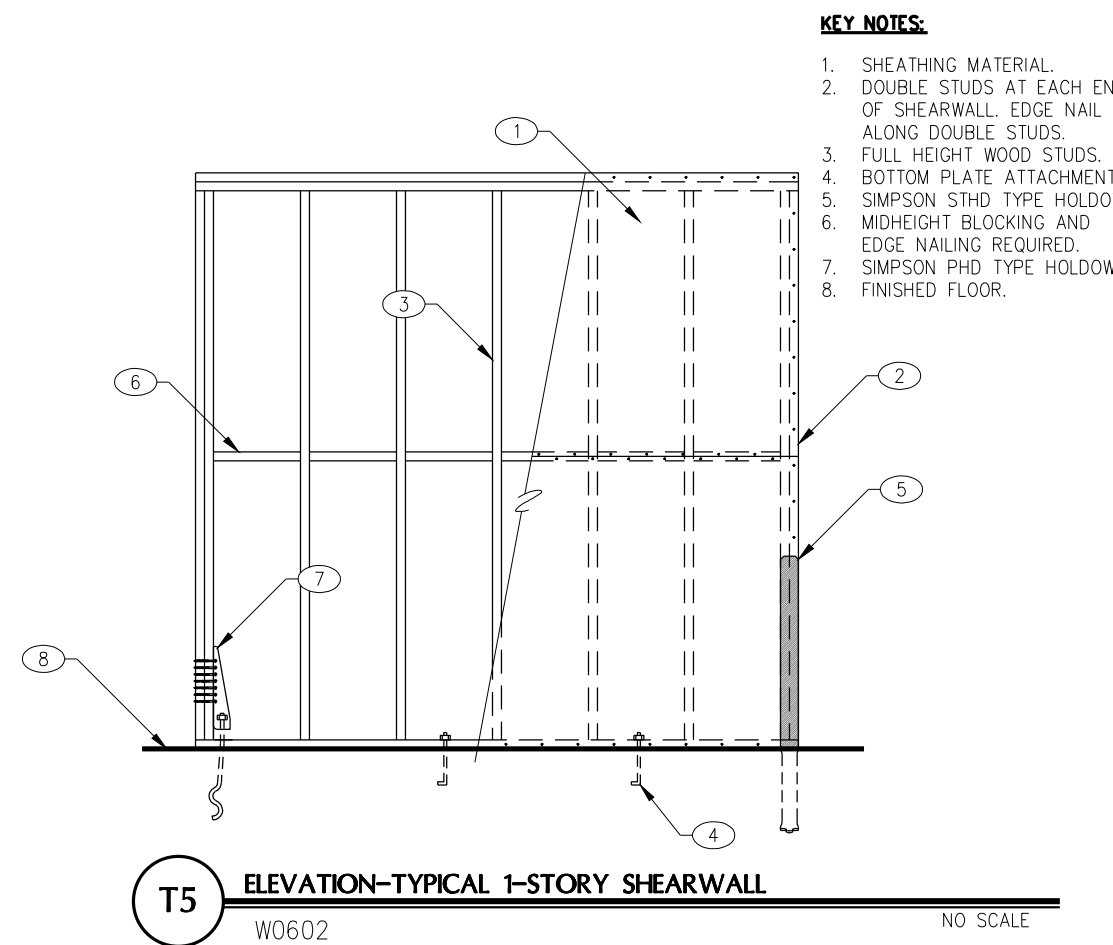
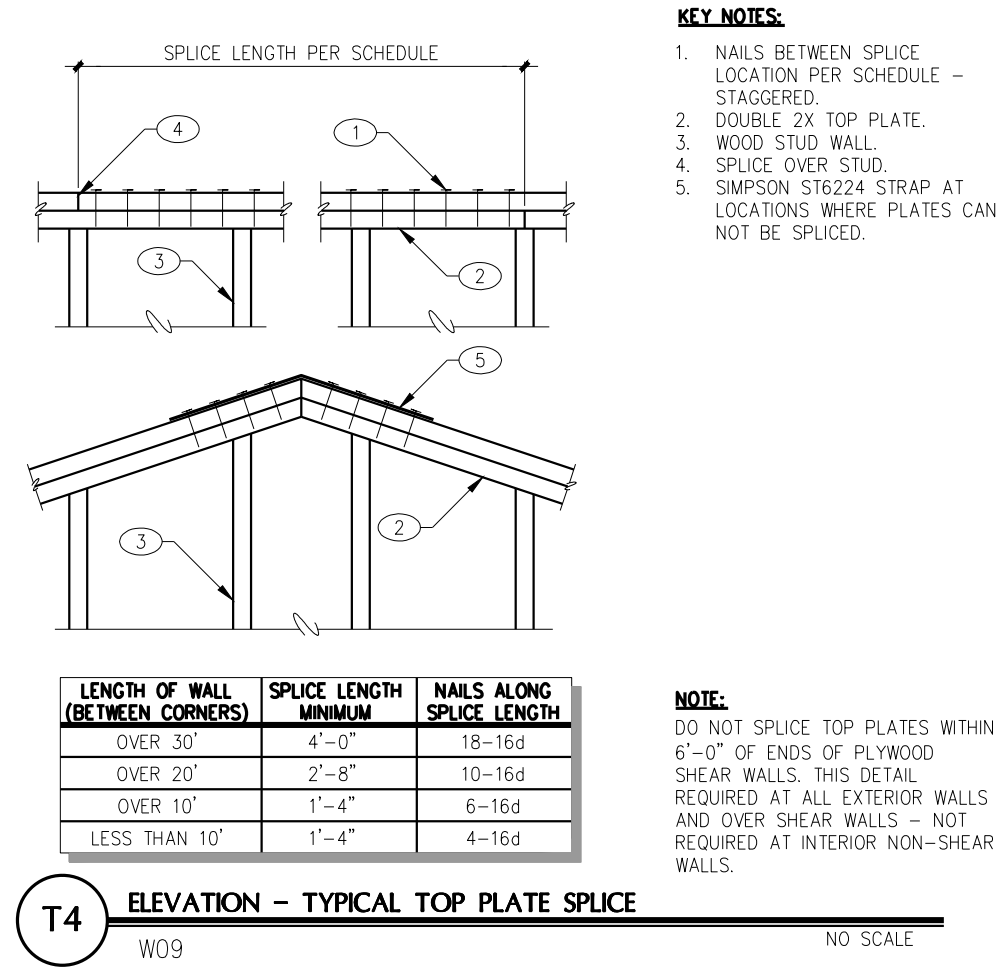
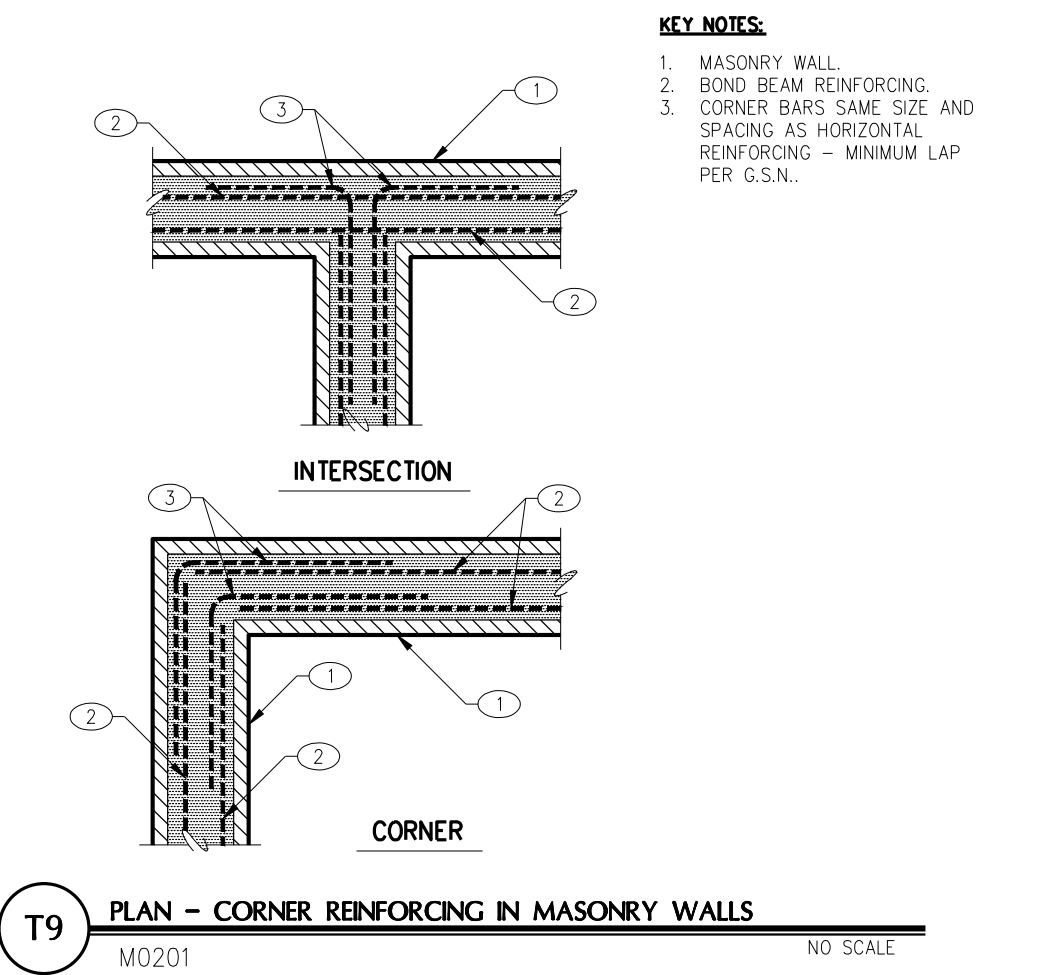
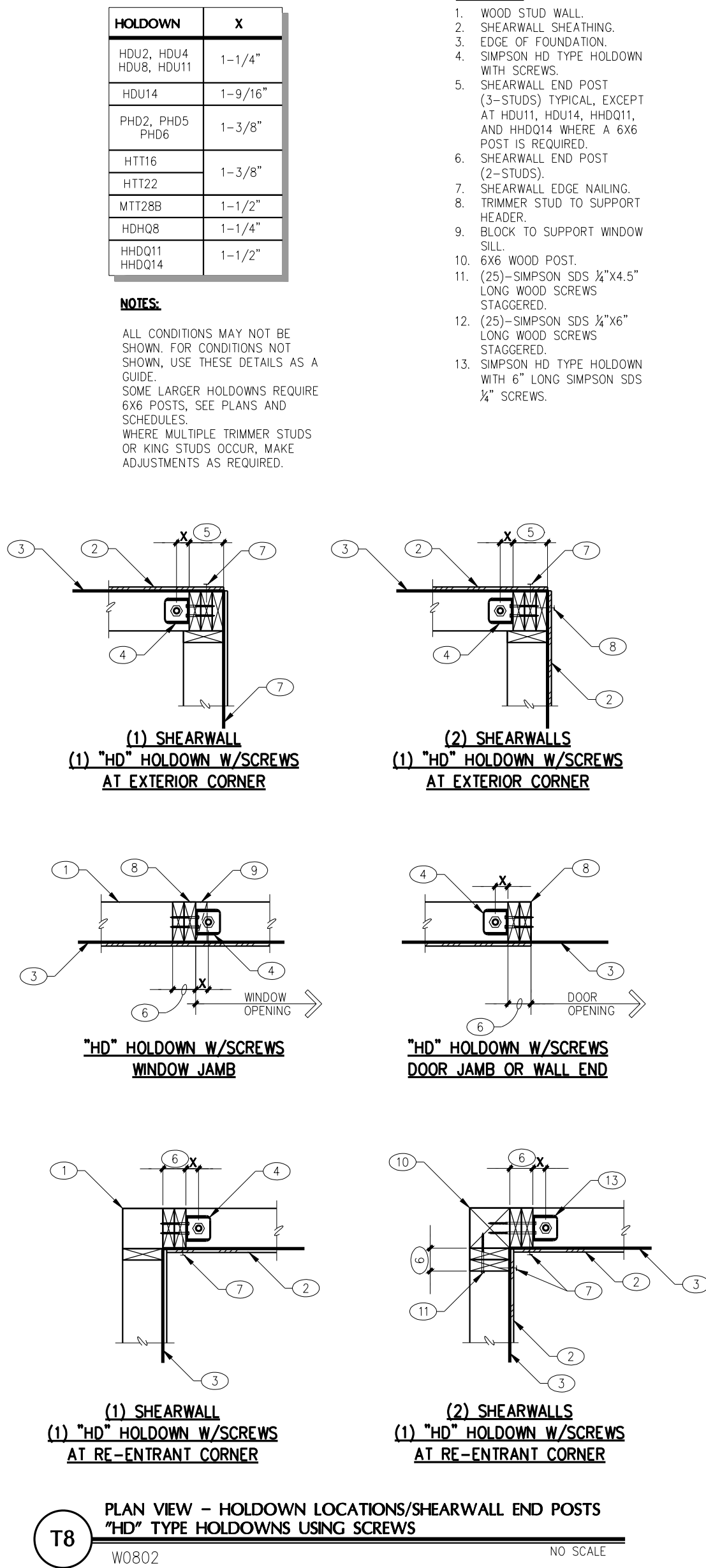
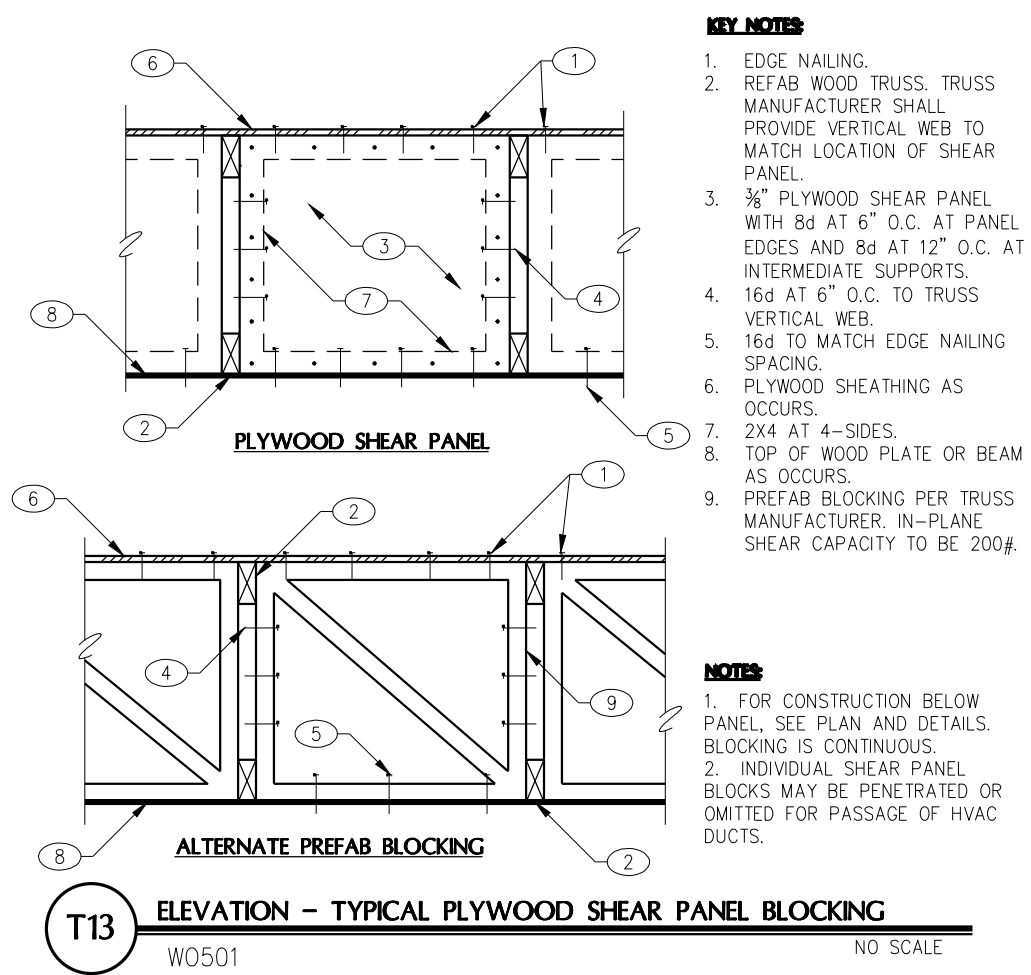
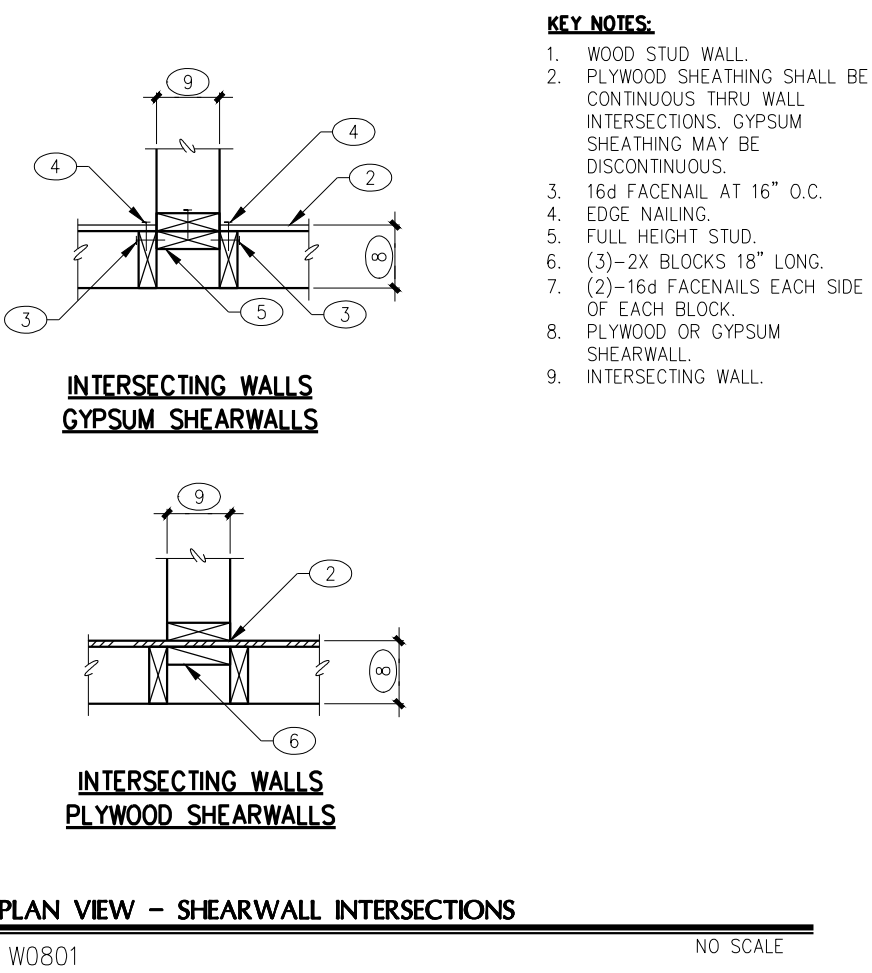
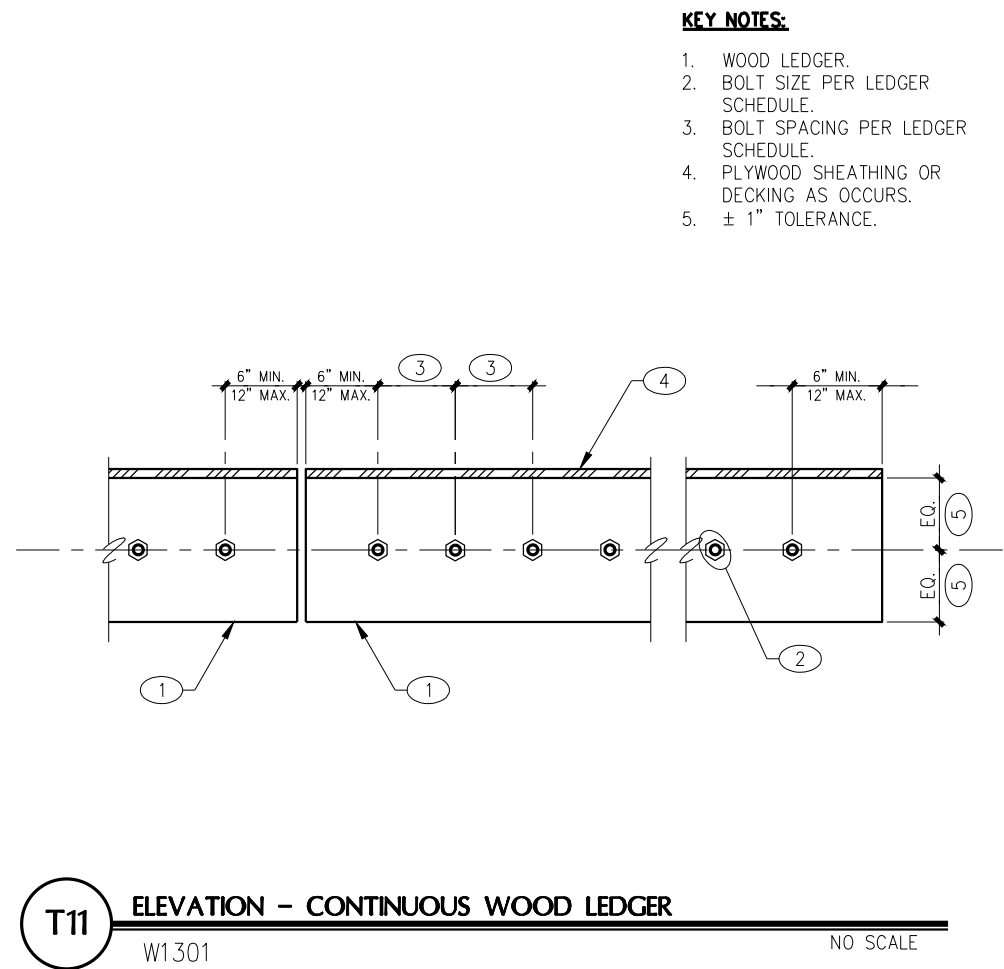
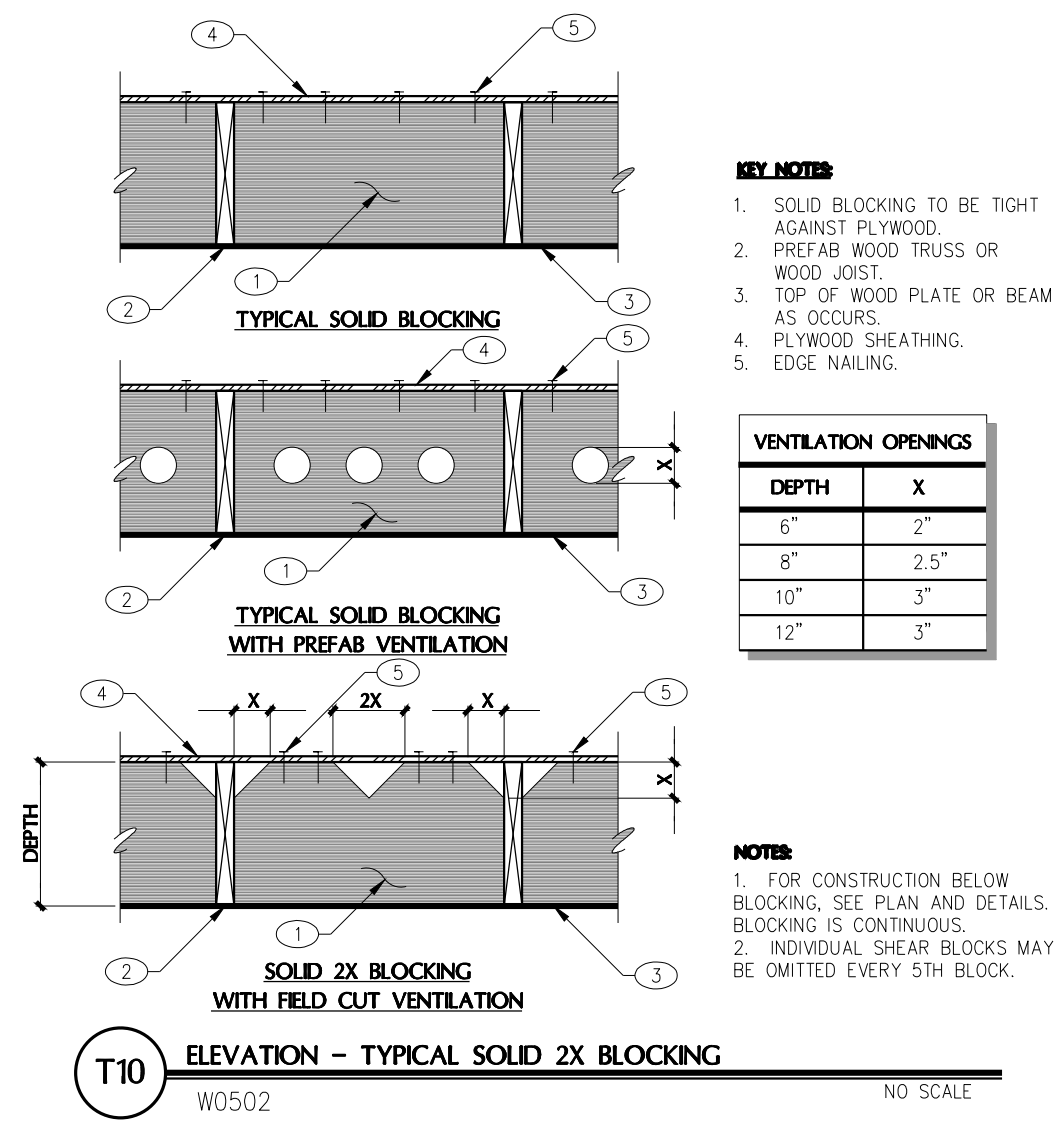


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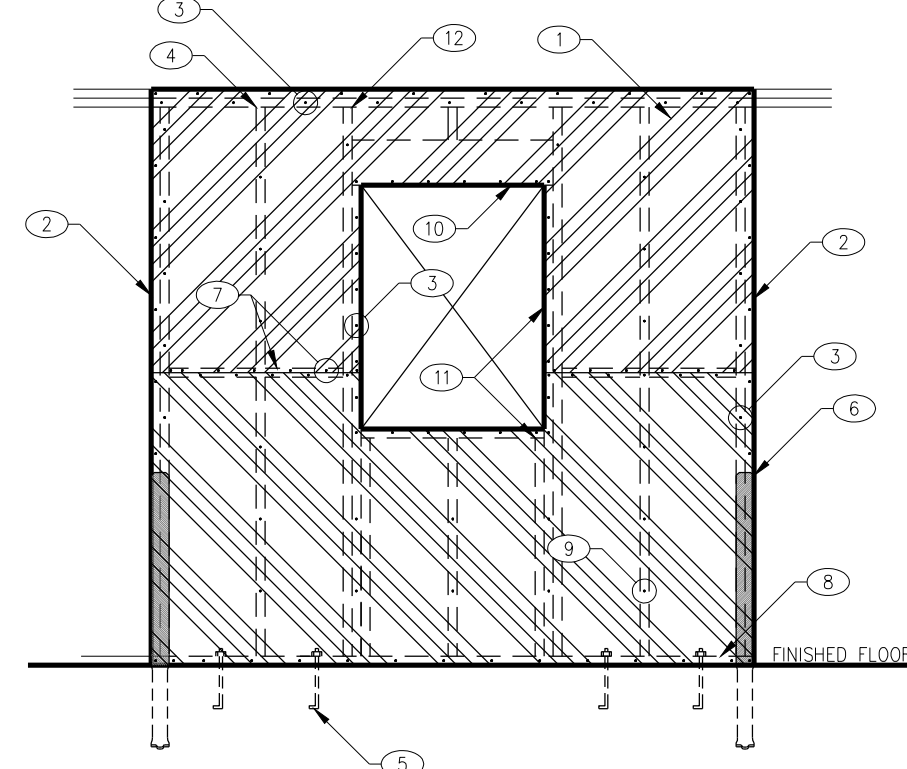
DRAWING: GENERAL STRUCTURAL NOTES



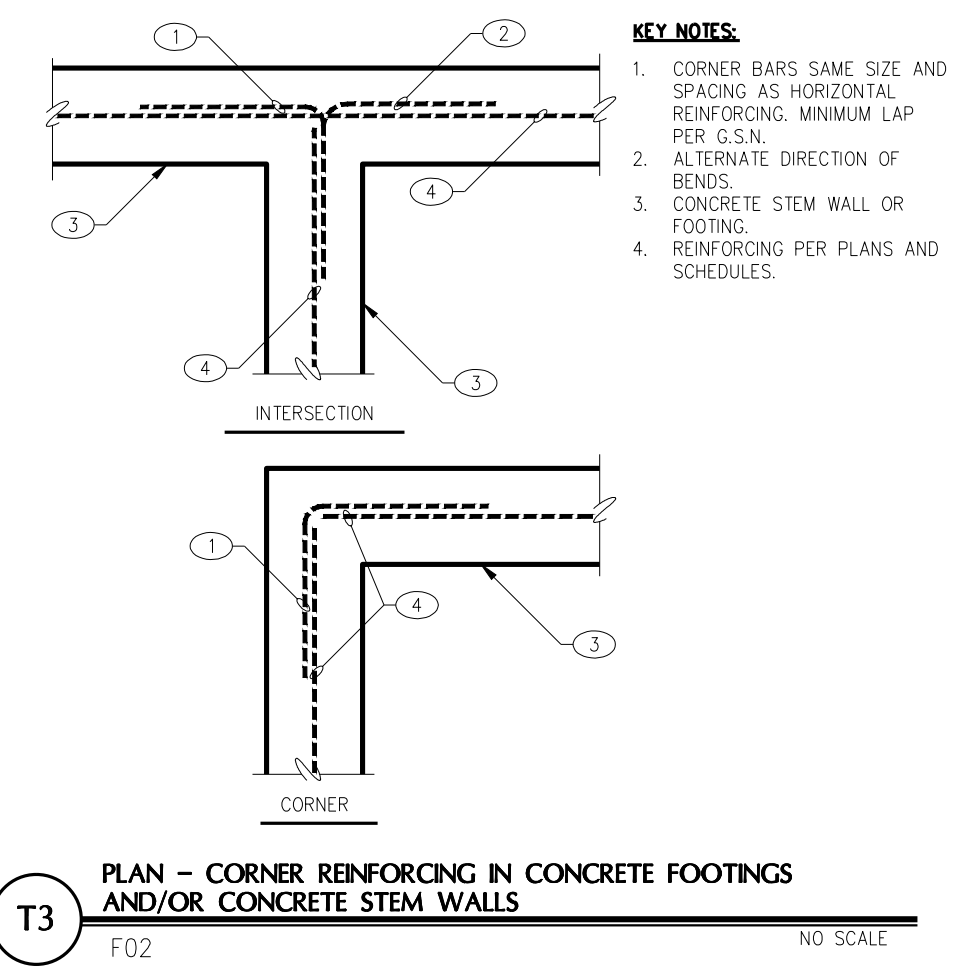
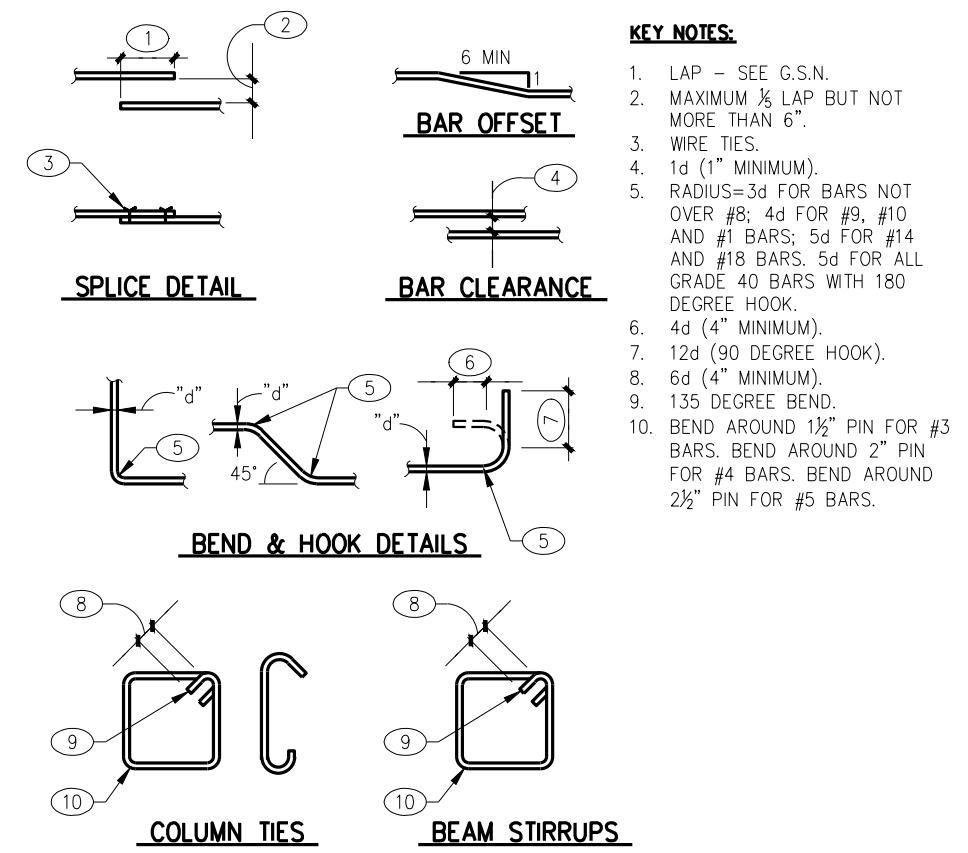
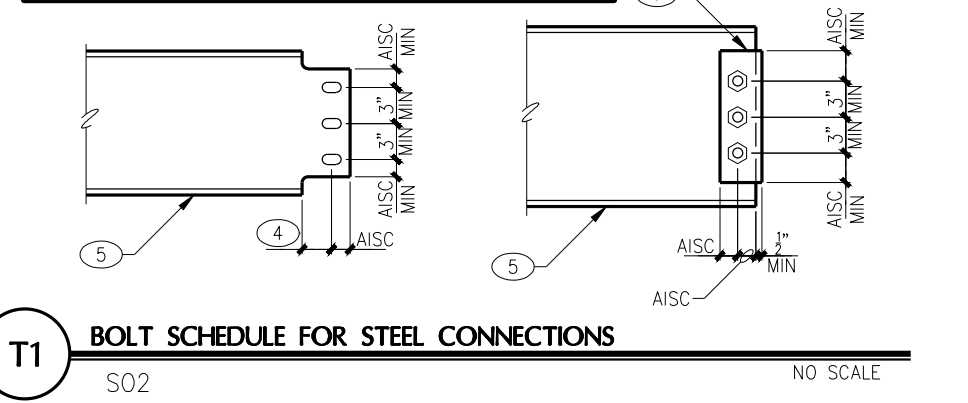
CONNECTION	NAILING	TYPE
JOIST OR TRUSS BEARING ON SILL OR GIRDER	(3)-8d	TOENAIL
BRIDGING TO JOIST	(2)-8d	TOENAIL
SOLE PLATE TO JOIST OR BLOCKING	16d AT 16" O.C.	FACE NAIL
TOP PLATE TO STUD	(2)-16d	END NAIL
STUD TO SOLE PLATE	(2)-16d, END NAIL	-NA-
DOUBLE STUDS	16d AT 24" O.C.	FACE NAIL
DOUBLE TOP PLATES	16d AT 16" O.C.	FACE NAIL
TOP PLATES, LAP AND INTERSECTIONS	(2)-16d	FACE NAIL
CONTINUOUS HEADER, TWO PIECES	16d AT 16" O.C. ALONG EACH EDGE	-NA-
CEILING JOISTS TO PLATE	(3)-8d	TOENAIL
CONTINUOUS HEADER TO STUD	(4)-8d	TOENAIL
CEILING JOISTS, LAPS OVER PARTITIONS	(3)-16d	FACE NAIL
CEILING JOISTS TO PARALLEL RAFTERS	(3)-8d	TOENAIL
RAFTER OR TRUSS TO PLATE	(2)-8d	FACE NAIL
1" BRACE TO EACH STUD AND PLATE	(2)-8d	FACE NAIL
BUILT-UP CORNER STUDS	16d AT 24" O.C.	-NA-

NOTE:

- MINIMUM NAILING SPECIFIED HEREIN SHALL BE PROVIDED UNLESS NOTED OTHERWISE ON PLANS, DETAILS OR GENERAL STRUCTURAL NOTES.
- NAILING NOT NOTED ON THESE PLANS OR DETAILS SHALL BE PER I.B.C. TABLE 2304.9.1.



NOMINAL BEAM DEPTH "D"	NUMBER OF ¾" DIA. ASTM. A325N BOLTS
UP TO 7"	2
8" - 11"	2
12" - 14"	3
15" - 17"	4
18" - 20"	5
21" - 23"	6
24" - 29"	7
30" - 32"	8
33" - 35"	9
36"	10



TYPICAL DETAILS T1-T13

JOB NO.: 2015-0287 PROJECT MANAGER: AGK CAD OPERATOR: MJS

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ARCHITECTURE & PLANNING

DRAWING: TYPICAL DETAILS T1-T13

PROJECT: Lembke-Mellul Residence
PRESCOTT, AZ 86304

DRAWN BY
MJS

CHECKED BY
A.K

DATE
2.1.16

SCALE
AS NOTED

JOB NO.
2015-0287

SHEET

1.1

ALTERNATE FASTENER SCHEDULE	
MATERIAL: 1/2" SHEARWALL OR ROOF SHEATHING	
SPECIFIED FASTENER	ALTERNATE FASTENER
8d COMMON AT 12" O.C.	16 GA STAPLE AT 12" O.C.
	15 GA STAPLE AT 12" O.C.
	14 GA STAPLE AT 12" O.C.
	13 GA STAPLE AT 12" O.C.
8d COMMON AT 6" O.C.	16 GA STAPLE AT 4" O.C.
	15 GA STAPLE AT 5" O.C.
	14 GA STAPLE AT 6" O.C.
	13 GA STAPLE AT 6" O.C.
10d COMMON AT 12" O.C.	16 GA STAPLE AT 12" O.C.
	15 GA STAPLE AT 12" O.C.
	14 GA STAPLE AT 12" O.C.
	13 GA STAPLE AT 12" O.C.
10d COMMON AT 6" O.C.	16 GA STAPLE AT 4" O.C.
	15 GA STAPLE AT 5" O.C.
	14 GA STAPLE AT 6" O.C.
	13 GA STAPLE AT 6" O.C.
NOTES: 1. STAPLES SHALL HAVE A MINIMUM CROWN WIDTH OF 7/16 INCH OUTSIDE DIMENSION. 2. FRAMING SHALL BE 3X OR WIDER WHEN NAIL OR STAPLE SPACING IS LESS THAN 3 INCHES ON CENTER. 3. ALL STAPLES SHALL HAVE 1-1/2" LONG LEGS MINIMUM. 4. STAPLE SIZES AND SPACING PER REPORT NO. NER-272.	

SCH0903

WALL REINFORCING (W) SCHEDULE			
MARK	THICKNESS	REINFORCING	REMARKS
W1	8" CMU	#5 AT 48" O.C. CENTERED	---

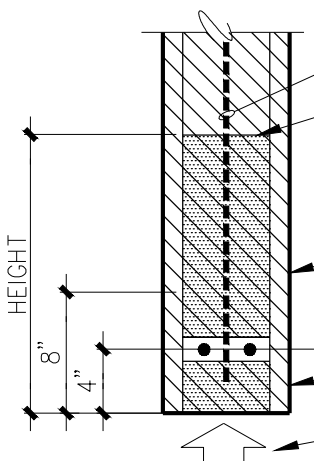
SCH144

MASONRY COLUMN (MC) SCHEDULE				
MARK	SIZE	REINFORCING		REMARKS
		VERTICAL	TIES	
MC1	56" X 32"	(8) #5	#3 AT 8" O.C.	SEE ARCHITECTURAL FOR DIMENSIONS AND SLOPE
MC2	72" X 72"	(12) #5	#3 AT 8" O.C.	SEE ARCHITECTURAL FOR DIMENSIONS AND SLOPE

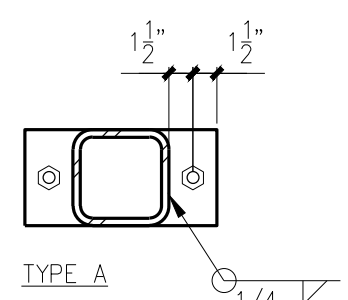
SCH0301

LEDGER (L) SCHEDULE		
NOTES: 1. ALL LEDGERS SHALL HAVE MINIMUM OF 2 WELD PLATES OR ANCHOR BOLTS AS NOTED BELOW. 2. WELD PLATES OR ANCHOR BOLTS SHALL BE LOCATED NOT LESS THAN 6" NOR MORE THAN 1'-4" FROM END OF LEDGER OR LEDGER SPLICE.		
MARK	SIZE	CONNECTION
L1	2.5"x7.25" (5) 1/2" LAYERS BUILT-UP-PLYWOOD	3/8"Ø BOLTS AT 24" O.C.
L2	2.5"x12" (5) 1/2" LAYERS BUILT-UP-PLYWOOD	(2) 3/8"Ø BOLTS AT 24" O.C.
L3	2.5"x7.25" (5) 1/2" LAYERS BUILT-UP-PLYWOOD	3/8"Ø BOLTS AT 24" O.C.
L4	2X8	(4) #10X3.5 SCREWS AT 24" O.C.

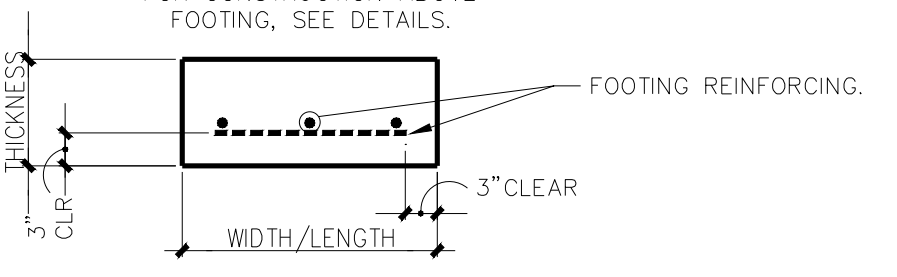
SCH0402

MASONRY LINTEL (ML) SCHEDULE		
		
NOTE: 1. VERTICAL REINFORCING TO MATCH AND LAP WALL REINFORCING PER G.S.N. 2. EXTEND GROUT, OPEN END MASONRY UNITS AND REINFORCING 2'-0" PAST EACH JAMB. USE CORNER BARS WHERE 2'-0" CANNOT BE ACHIEVED.		
MARK	HEIGHT	REINFORCING
ML1	80"	(2) #5 HORIZONTAL
ML2	80"	(2) #5 HORIZONTAL AND #5 AT 16" O.C. VERTICAL
ML3	64"	(2) #5 HORIZONTAL AND #5 AT 16" O.C. VERTICAL
ML4	64"	(2) #5 HORIZONTAL

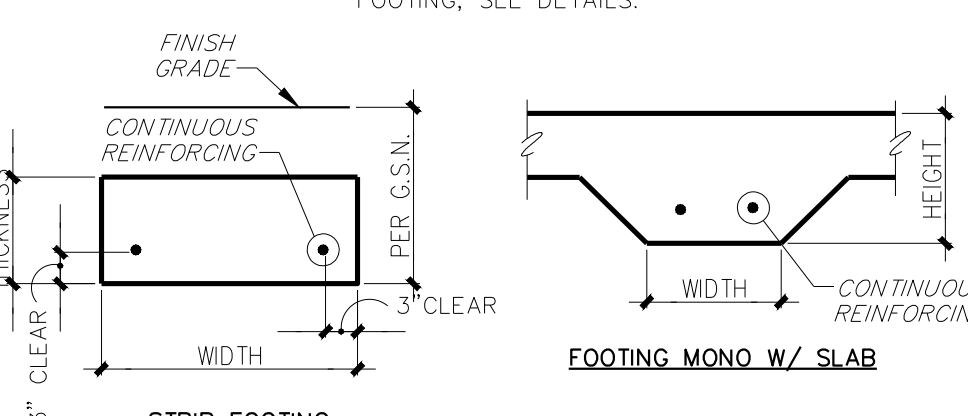
SCH0701

COLUMN (C) SCHEDULE				
MARK	SIZE	BASE CONNECTION	BASE CONNECTION TYPE	
C1	HSS4X4X3/8 STEEL COLUMN	10"x4"x1/2" THK STEEL PLATE W/ (2) 3/8"Ø EXPANSION ANCHORS	TYPE A	
				

SCH0601

CONCRETE FOOTING (F) SCHEDULE				
FOR CONSTRUCTION ABOVE FOOTING, SEE DETAILS. 				
MARK	DIMENSIONS		FOOTING REINFORCING	REMARKS
	LENGTH	WIDTH	THICKNESS	
F1	2'-0"	2'-0"	10"	(4) #4 EACH WAY ---
F2	3'-6"	3'-6"	10"	(7) #4 EACH WAY ---
F3	6'-0"	4'-0"	10"	(8) #4 LONG WAY (11) #4 SHORT WAY ---
F4	7'-0	3'-6"	10"	(7) #4 LONG WAY (13) #4 SHORT WAY SEE PLAN TO CLARIFY DIMENSIONS ---

SCH02

WALL FOOTING (WF) SCHEDULE			
FOR CONSTRUCTION ABOVE FOOTING, SEE DETAILS. 			
MARK	DIMENSIONS		FOOTING REINFORCING
	WIDTH	HEIGHT OR THICKNESS	
WF1	16"	10"	(2) #4 CONT. [STRIP FOOTING]
WF2	24"	10"	(3) #4 CONT. [STRIP FOOTING]
WF3	16"	12"	(2) #4 CONT. [FOOTING MONO W/ SLAB]
WF4	16"	8"	N/A [FOOTING MONO W/ SLAB]

SCH01

MASONRY JAMB (MJ) SCHEDULE		
NOTE: TYPICAL MASONRY JAMB SHALL BE MJ1-(1)#5-1 UNLESS NOTED OTHERWISE ON PLANS. NUMBER OF CELLS W/ REBAR AND SOLID GROUT. SIZE OF REBAR. NUMBER OF REBAR IN EACH CELL. TYPE		
MJ1	MASONRY JAMB W/ REBAR CENTERED	---
MJ2	MASONRY JAMB W/ REBAR AT EACH FACE OF WALL	---

MJ-SCH01

SHEARWALL SCHEDULE (ALL EXTERIOR WALLS ARE 1/2" UNLESS NOTED OTHERWISE)				
NOTES: 1. SHEARWALL TYPES LISTED BELOW ARE NOT JOB SPECIFIC. SOME TYPES MAY NOT BE USED ON PLANS. 2. BLOCK ALL PANEL EDGES WHERE INDICATED ON SCHEDULE. EDGE NAIL SHEATHING AT BLOCKED EDGES. 3. FRAMING MEMBER SUPPORTING MATERIAL SHALL BE SPACED AT 16" ON CENTER MAXIMUM. 4. ANCHOR BOLTS TO FOUNDATION SHALL BE TO LONG AND SHALL BE EMBEDDED 7 INCHES INTO CONCRETE. EXPANSION BOLTS OR SHOT PINS MAY BE USED AT INTERIOR WALLS (AWAY FROM EDGE OF SLAB OR SLAB STEPDOWN) PER SUPPLEMENTAL INSTRUCTIONS. 5. A MINIMUM OF 2 ANCHOR BOLTS SHALL BE USED ON EACH BASE PLATE PIECE. PROVIDE 1 ANCHOR BOLT MINIMUM WITHIN 9 INCHES OF EACH END OF EACH PIECE. 6. PROVIDE CONTINUOUS DOUBLE 2X PLATE TOP PLATE AT ALL SHEAR WALLS AND EXTERIOR WALLS. UNLESS NOTED OTHERWISE, LAP SPLICE TOP PLATE A MINIMUM OF 6'-0" WITH 16d NAILS STAGGERED AT 4" ON CENTER (18-16d NAILS TOTAL BETWEEN SPLICE JOINTS). 7. PROVIDE FULL HEIGHT DOUBLE STUDS AT ENDS OF SHEAR WALLS UNLESS NOTED OTHERWISE ON PLANS OR DETAILS. 8. ELEVATED SHEAR WALLS TO BE FRAMED OVER DOUBLE JOIST OR SOLID BLOCKING UNLESS NOTED OTHERWISE. 9. "L=P.P." DESIGNATES LENGTH OF SHEARWALL (+3").				
MARK	SHEATHING MATERIAL	EDGE NAILING	FIELD NAILING	BOTTOM PLATE ATTACHMENT
1 L=P.P.	1/2" GYPBOARD (UNBLOCKED) ONE SIDE OF WALL	5d COOLER AT 7" O.C. OR #6 SCREWS AT 6" O.C.	5d COOLER AT 7" O.C. OR #6 SCREWS AT 12 O.C.	CONCRETE: 1/2" DIA. A.B. AT 72" O.C. WOOD: 16d STAGGERED AT 16" O.C.
2 L=P.P.	5/8" GYPBOARD (UNBLOCKED) ONE SIDE OF WALL	6d COOLER AT 7" O.C. OR #6 SCREWS AT 6" O.C.	6d COOLER AT 7" O.C. OR #6 SCREWS AT 12 O.C.	CONCRETE: 1/2" DIA. A.B. AT 72" O.C. WOOD: 16d STAGGERED AT 12" O.C.
3 L=P.P.	BOTH SIDES	5d COOLER AT 7" O.C. OR #6 SCREWS AT 6" O.C.	5d COOLER AT 7" O.C. OR #6 SCREWS AT 12 O.C.	CONCRETE: 1/2" DIA. A.B. AT 48" O.C. WOOD: 16d STAGGERED AT 8" O.C.
4 L=P.P.	ONE SIDE	SEE ABOVE	SEE ABOVE	CONCRETE: 1/2" DIA. A.B. AT 36" O.C. WOOD: 16d STAGGERED AT 6" O.C.
5 L=P.P.	1/2" OR 3/8" PLYWOOD OR OSB (BLOCKED) ONE SIDE OF WALL	8d COMMON AT 6" O.C.	8d COMMON AT 12" O.C.	CONCRETE: 1/2" DIA. A.B. AT 36" O.C. WOOD: 16d STAGGERED AT 6" O.C.
6 L=P.P.	1/2" OR 3/8" PLYWOOD OR OSB (BLOCKED) ONE SIDE OF WALL	8d COMMON AT 4" O.C.	8d COMMON AT 12" O.C.	CONCRETE: 1/2" DIA. A.B. AT 24" O.C. WOOD: 16d STAGGERED AT 4" O.C.

SCH0901

PERFORATED SHEARWALL TYPES				
MARK	SHEATHING MATERIAL	EDGE NAILING	FIELD NAILING	BOTTOM PLATE ATTACHMENT
13 L=P.P.	1/2" OR 3/8" PLYWOOD OR OSB ONE SIDE OF WALL	8d COMMON AT 6" O.C.	8d COMMON AT 12" O.C.	CONCRETE: 1/2" DIA. A.B. AT 28" O.C. WOOD: 16d STAGGERED AT 6" O.C.
NOTES: 1. SHEARWALL TYPES LISTED ABOVE ARE NOT JOB SPECIFIC. SOME TYPES MAY NOT BE USED ON THE PLANS. 2. FRAMING MEMBER SUPPORTING MATERIAL SHALL BE SPACED AT 16" O.C. MAXIMUM. 3. ANCHOR BOLTS TO FOUNDATION SHALL BE 10" LONG AND SHALL BE EMBEDDED 7" INTO CONCRETE. WASHERS SHALL BE 2" SQUARE X 1/4" THICK AND PLACED ON TOP OF BOTTOM PLATE. 4. A MINIMUM OF 2 ANCHOR BOLTS SHALL BE USED ON EACH BASE PLATE PIECE. PROVIDE 1 ANCHOR BOLT MINIMUM WITHIN 9 INCHES OF EACH END OF EACH PIECE. 5. PROVIDE CONTINUOUS DOUBLE 2X PLATE TOP PLATE AT ALL SHEAR WALLS AND EXTERIOR WALLS. UNLESS NOTED OTHERWISE, LAP SPLICE TOP PLATE A MINIMUM OF 6'-0" WITH 16d NAILS STAGGERED AT 4" ON CENTER (18-16d NAILS TOTAL BETWEEN SPLICE JOINTS). 6. PROVIDE FULL HEIGHT DOUBLE STUDS AT ENDS OF SHEAR WALLS UNLESS NOTED OTHERWISE ON PLANS OR DETAILS. 7. BLOCK ALL PANEL EDGES. EDGE NAIL SHEATHING AT BLOCKED EDGES. 8. PLYWOOD SHEATHING SHALL CONTINUE ABOVE AND BELOW OPENING.				

SCH0905

BEAM (B) SCHEDULE		
MARK	SIZE	CAMBER
B1	51/2X12 GLB	
B2	51/2X12 GLB	
B3	W12X40	

SCH10

HEADER (H) SCHEDULE		
MARK	SIZE	REMARKS
H1	4X8	OR (2) 2X10
H2	4X8	OR (2) 2X8
H3	6X12 DF#1	OR 31/2X10.5 GLB
H4	4X10	OR 31/2X6 GLB

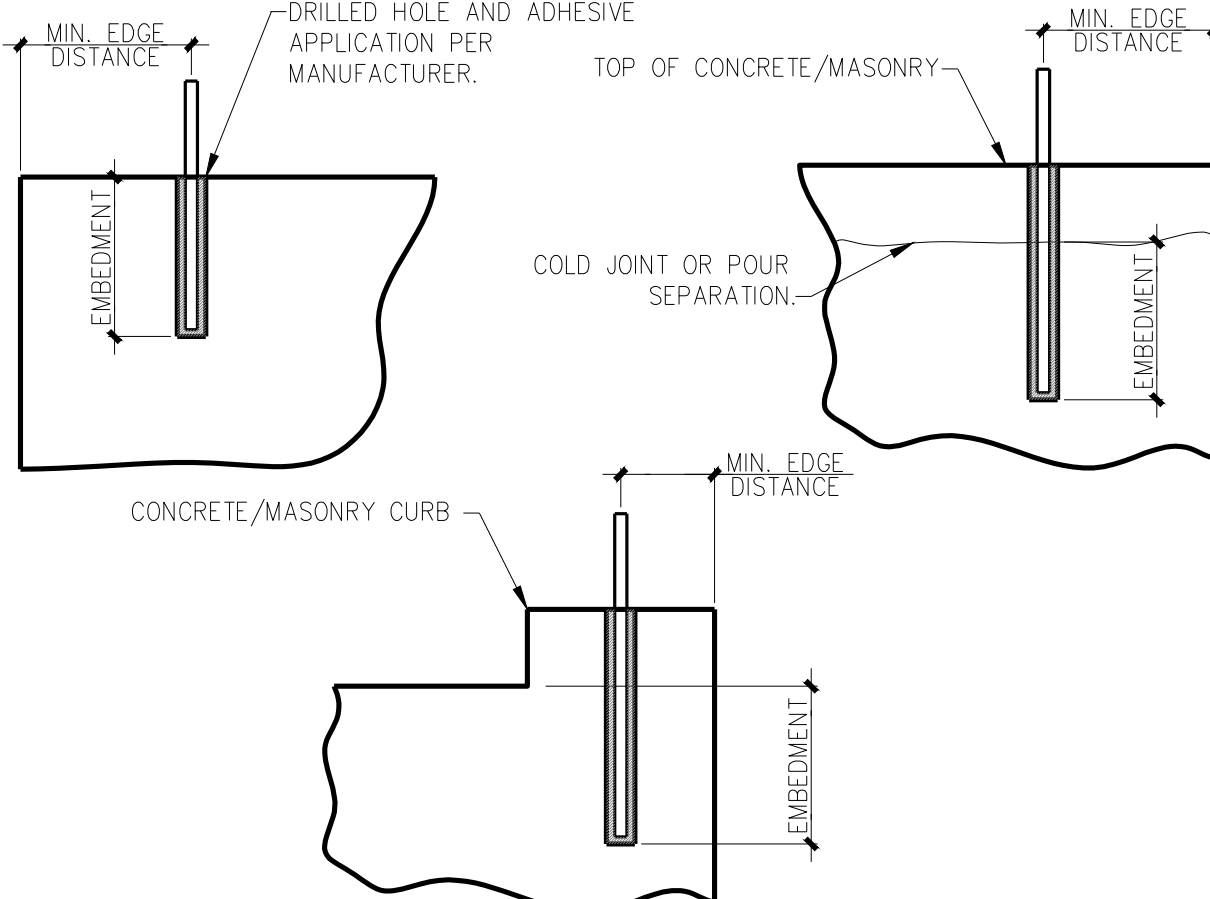
SCH12

ROOF JOIST (RJ) SCHEDULE		
MARK	SIZE	REMARKS
RJ1	16" TJI 560 SERIES AT 24" O.C.	---
RJ2	2X8 AT 24" O.C.	---
RJ3	2X10 AT 24" O.C.	---

SCH1302

SHEARWALL HOLDOWN SCHEDULE				
MARK	HOLDOWN	SHEARWALL END POST	DETAIL REFERENCE	ALTERNATE HOLDOWN
1	SIMPSON HDU2	(2) 2X6 STUDS	107	NONE
2	SIMPSON HDU4	(2) 2X6 STUDS	108	NONE
3	SIMPSON HDU8	(2) 2X6 STUDS	107	NONE
4	SIMPSON HDU2	(2) 2X6 STUDS	108	NONE

SCH17

ALTERNATE EPOXY ANCHOR SCHEDULE			
NOTE: TO BE USED WHEN CAST-IN-PLACE HOLDOWN ANCHORS ARE INCORRECTLY INSTALLED. SPECIAL INSPECTION IS REQUIRED.			
SPECIFIED ANCHOR	ALTERNATE ANCHOR	DRILLED HOLE	MINIMUM EDGE DISTANCE
SIMPSON SSTB16	15" LONG X 5/8"Ø A307 THREADED ROD	3/4"Ø X 12" DEEP	1.75 INCHES
SIMPSON SSTB28	27" LONG X 7/8"Ø A307 THREADED ROD	1"Ø X 24" DEEP	1.75 INCHES
SCHEDULE NOTES: 1. CLEAN ALL DRILLED HOLES WITH COMPRESSED AIR. 2. CONCRETE: USE HILTI HIT-RE 500-SD ADHESIVE (ESR-2322) OR SIMPSON SET-XP (ESR-2508). MASONRY: USE SIMPSON "SET" ADHESIVE (ESR-1772). 3. INSTALL ALL SYSTEMS ACCORDING TO MANUFACTURERS RECOMMENDATIONS. 4. DO NOT PLACE ALL-THREAD ROD WITHIN MINIMUM EDGE DISTANCE TO FREE EDGE OF CONCRETE OR ADJACENT BOLTS.			
			

SCH17B

SHEARWALL HOLDOWN FASTENERS		
HOLDOWN	HOLDOWN CONNECTS TO STRUCTURE BELOW WITH:	HOLDOWN CONNECTS TO SHEARWALL ENDOPOST WITH:
SIMPSON HDU2	CAST-IN-PLACE SIMPSON SSTB16 ANCHOR BOLT	(6) 1/4"x2.5" SDS SCREWS
SIMPSON HDU4	CAST-IN-PLACE SIMPSON SSTB16 ANCHOR BOLT	(10) 1/4"x2.5" SDS SCREWS
SIMPSON HDU8	CAST-IN-PLACE SIMPSON SSTB28 ANCHOR BOLT	(20) 1/4"x2.5" SDS SCREWS

SCH17C

PLAN SCHEDULES		
JOB NO.: 2015-0287	PROJECT MANAGER: AGK	CAO OPERATOR: MJS
FROST STRUCTURAL ENGINEERING		
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REVISIONS	BY

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DRAWING: PLAN SCHEDULES

PROJECT:

Lembke-Mellul Residence

PRESCOTT, AZ 86304

ARCHITECTURE & PLANNING

DRAWN BY MJS
CHECKED BY A.K
DATE 2.1.16
SCALE AS NOTED
JOB NO. 2015-0287
SHEET

1.2

WALL REINFORCING (W) SCHEDULE			
MARK	THICKNESS	REINFORCING	REMARKS
W1	8" CMU	#5 AT 48" O.C. CENTERED	---

SCH14A

MASONRY COLUMN (MC) SCHEDULE				
MARK	SIZE	REINFORCING		REMARKS
		VERTICAL	TIES	
MC1	56" X 32"	(8) #5	#3 AT 8" O.C.	SEE ARCHITECTURAL FOR DIMENSIONS AND SLOPE
MC2	72" X 72"	(12) #5	#3 AT 8" O.C.	SEE ARCHITECTURAL FOR DIMENSIONS AND SLOPE

SCH0301

CONCRETE FOOTING (F) SCHEDULE				
MARK	DIMENSIONS			REMARKS
	LENGTH	WIDTH	THICKNESS	
F1	2'-0"	2'-0"	10"	(4) #4 EACH WAY
F2	3'-6"	3'-6"	10"	(7) #4 EACH WAY
F3	6'-0"	4'-0"	10"	(8) #4 LONG WAY (11) #4 SHORT WAY
F4	7'-0"	3'-6"	10"	(7) #4 LONG WAY (13) #4 SHORT WAY

SCH02

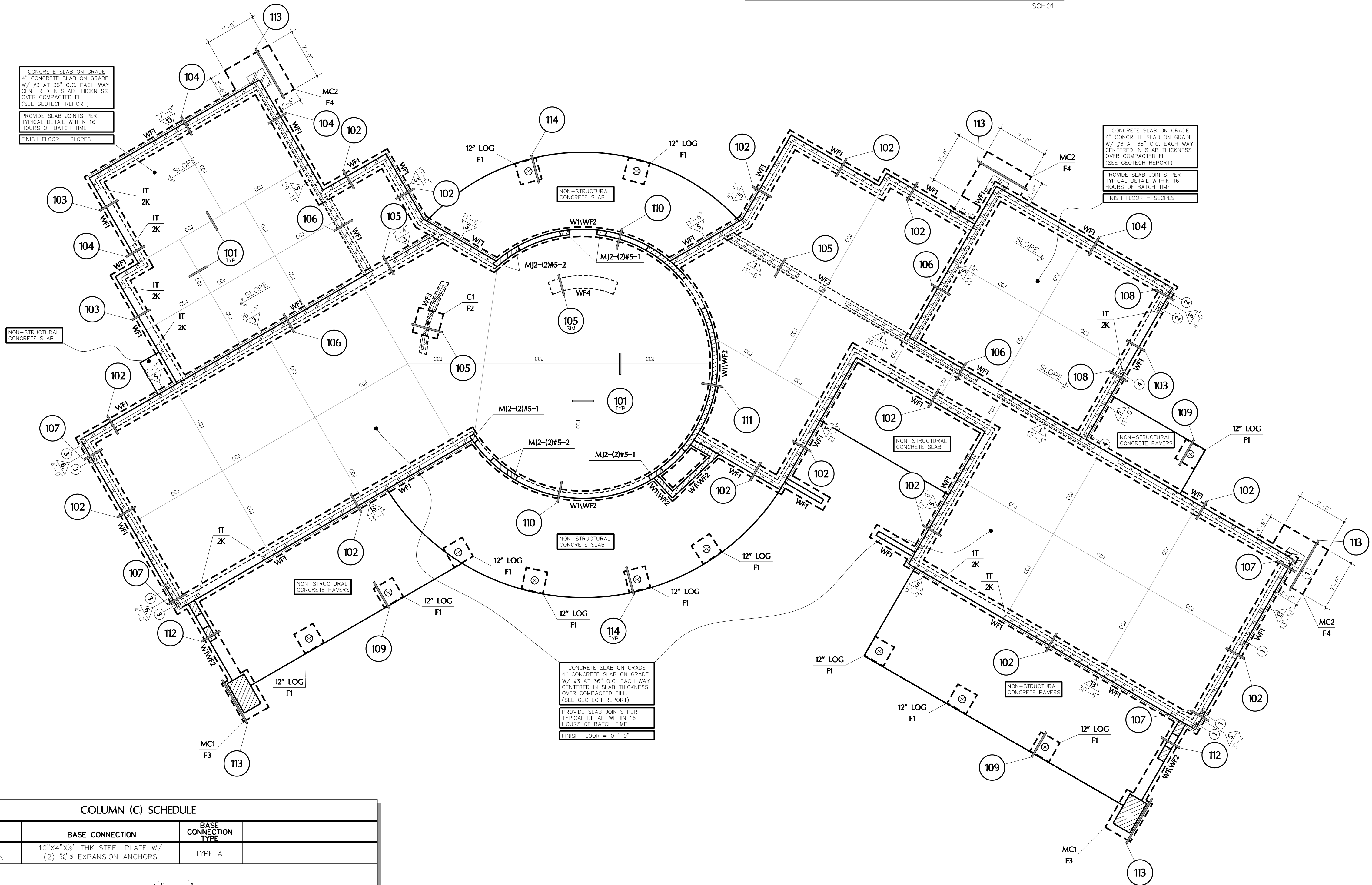
WALL FOOTING (WF) SCHEDULE			
MARK	DIMENSIONS		FOOTING TYPE
	WIDTH	HEIGHT OR THICKNESS	
WF1	16"	10"	(2) #4 CONT.
WF2	24"	10"	(3) #4 CONT.
WF3	16"	12"	(2) #4 CONT.
WF4	16"	8"	N/A

SCH01

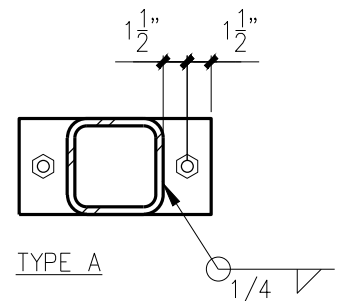
MASONRY JAMB (MJ) SCHEDULE		
TYPE	DESCRIPTION	REMARKS
MJ1	MASONRY JAMB W/ REBAR CENTERED	---
MJ2	MASONRY JAMB W/ REBAR AT EACH FACE OF WALL	---

MJ-SCH01

WALL SCHEDULE	
NOTE: -HATCHING INDICATES STRUCTURAL ELEMENT CONTINUES TO THE NEXT LEVEL (VERIFY WITH ARCHITECTURAL DRAWINGS). -SEE PLAN SCHEDULES, DETAILS, AND GENERAL STRUCTURAL NOTES FOR ADDITIONAL INFORMATION.	
TYPICAL STEM WALL	8" CMU STEM WALL UP TO 4'-0" RETAINING #4 AT 48" O.C. VERTICAL #4 AT 48" O.C. HORIZONTAL CENTERED IN WALL
AS SEEN ON PLANS	INDICATES:
	4" WOOD STUD WALL. USE 2X4 AT 16" O.C. ALL OPENINGS HAVE 1 TRIMMER STUD AND 1 KING STUD AT EACH SIDE (MIN. U.N.O.) BEAM/ORDER POSTS: DOUBLE STUD (MIN. U.N.O.) SHEARWALL ENDPOSTS: DOUBLE STUD (MIN. U.N.O.)
	6" WOOD STUD WALL. USE 2X6 AT 16" O.C. ALL OPENINGS HAVE 1 TRIMMER STUD AND 1 KING STUD AT EACH SIDE (MIN. U.N.O.) BEAM/ORDER POSTS: DOUBLE STUD (MIN. U.N.O.) SHEARWALL ENDPOSTS: DOUBLE STUD (MIN. U.N.O.)
	SHEAR WALL. SEE SHEARWALL SCHEDULE FOR WALL SHEATHING AND NAILING.
	8" MASONRY (CMU) WALL. MINIMUM REINFORCING UNLESS NOTED OTHERWISE: VERTICAL: #4 AT 48" O.C. HORIZONTAL: #4 AT 4'-0" O.C. MAXIMUM.
FOUNDATION PLAN NOTES	
1. VERIFY ALL DIMENSIONS WITH ALL ARCHITECTURAL DRAWINGS.	
2. THE DEPTH OF FOOTING DIMENSION INDICATED IN THE C.S.N. IS A MINIMUM. FOUNDATION CONTRACTOR SHALL COORDINATE WITH THE SOILS REPORT AND OTHER TRADES TO INSURE THAT THESE MINIMUMS ARE SUFFICIENT FOR THE WORK. SEE TYPICAL DETAILS FOR ADDITIONAL REQUIREMENTS.	
3. WF1, WF2, ETC. - AS SHOWN ON PLAN INDICATES A CONTINUOUS WALL FOOTING. SEE WALL FOOTING SCHEDULE FOR ADDITIONAL INFORMATION.	
4. F1, F2, ETC. - AS SHOWN ON PLAN INDICATES A CONCRETE FOOTING. SEE FOOTING SCHEDULE FOR ADDITIONAL INFORMATION.	
5. W1, W2, ETC. - AS SHOWN ON PLAN INDICATES WALL REINFORCING. SEE WALL REINFORCING SCHEDULE FOR ADDITIONAL INFORMATION.	
6. C1, C2, ETC. - AS SHOWN ON PLAN INDICATES A COLUMN. SEE COLUMN SCHEDULE FOR ADDITIONAL INFORMATION. COLUMNS START AT THE LEVEL THEY ARE CALLED OUT ON.	
7. MC1, MC2, ETC. - AS SHOWN ON PLAN INDICATES A MASONRY COLUMN. SEE MASONRY COLUMN SCHEDULE FOR ADDITIONAL INFORMATION.	
8. (1) (2) - AS SHOWN ON PLAN INDICATES A SHEARWALL HOLDOWN. SEE HOLDOWN SCHEDULES AND DETAILS FOR ADDITIONAL INFORMATION.	
9. CCJ - AS SHOWN ON PLAN INDICATES LOCATION OF EITHER A KEYED OR A SAW CUT CONTROL JOINT IN THE SLAB ON GRADE AT CONTRACTOR'S OPTION. SEE GENERAL STRUCTURAL NOTES AND DETAIL (10).	
10. VERIFY EXACT SIZE AND LOCATION OF DEPRESSED AND/OR RAISED SLABS WITH ARCHITECTURAL DRAWINGS.	
11. FOR SIDEWALK AND LANDING LOCATIONS, SEE ARCHITECTURAL DRAWINGS.	
12. MCJ - AS SHOWN ON PLAN INDICATES A MASONRY CONTROL JOINT IN A MASONRY WALL. SEE GENERAL STRUCTURAL NOTES AND TYPICAL DETAIL.	



COLUMN (C) SCHEDULE			
MARK	SIZE	BASE CONNECTION	BASE CONNECTION TYPE
C1	HSS4X4X3/8 STEEL COLUMN	10"x4"x3/8" THK STEEL PLATE W/ (2) 3/8" EXPANSION ANCHORS	TYPE A



SCH0601

FOUNDATION PLAN

SCALE: 1/8" = 1'-0"

REVISIONS	BY

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ARCHITECTURE & PLANNING

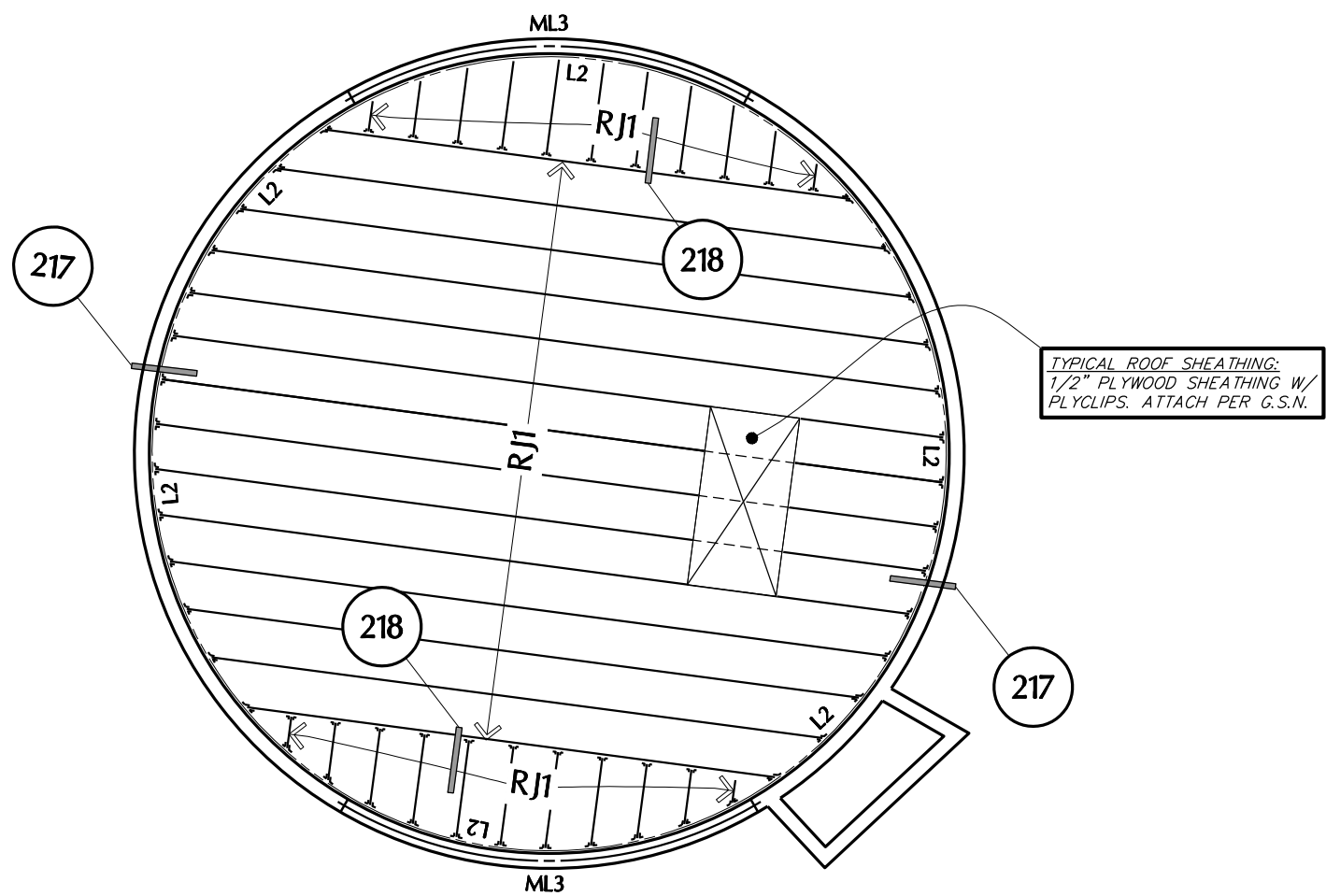
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PROJECT: Lembke-Mellul Residence
PRESCOTT, AZ 86.0.0

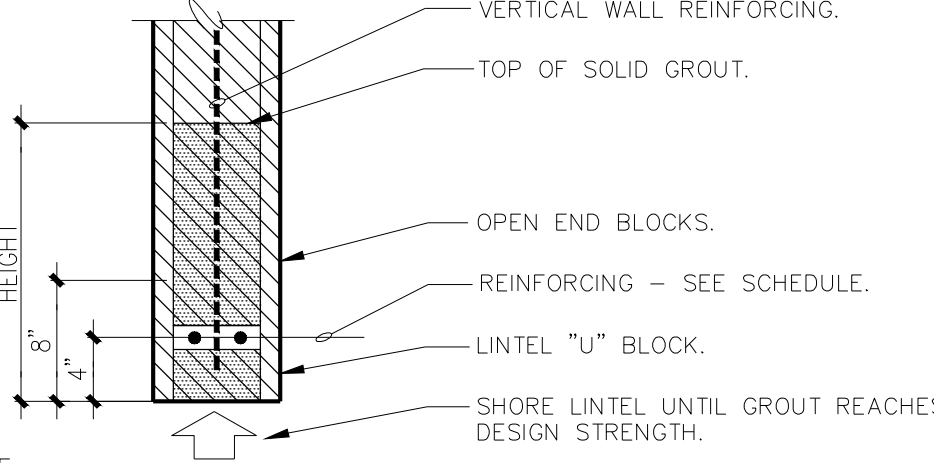
LOCATION OF DETAILS		
DETAILS	SHEET	DESCRIPTION
---	S1	GENERAL STRUCTURAL NOTES
T1-T12	S11	TYPICAL DETAILS
101-114	S4	FOUNDATION DETAILS
201-220	S5	FRAMING DETAILS
JOB NO.: 2015-0287 PROJECT MANAGER: AGK CAD OPERATOR: MJS		
FROST STRUCTURAL ENGINEERING		
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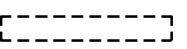

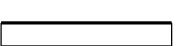
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DATE 2.1.16
SCALE AS NOTED
JOB NO. 2015-0287
SHEET

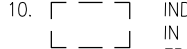
2



LEDGER (L) SCHEDULE		
NOTES: 1. ALL LEDGERS SHALL HAVE MINIMUM OF 2 WELD PLATES OR ANCHOR BOLTS AS NOTED BELOW. 2. WELD PLATES OR ANCHOR BOLTS SHALL BE LOCATED NOT LESS THAN 6" NOR MORE THAN 1'-4" FROM END OF LEDGER OR LEDGER SPLICE.		
MARK	SIZE	CONNECTION
L1	2.5"x7.25" (5) 1/2" LAYERS BUILT-UP-PLYWOOD	3/8"Ø BOLTS AT 24" O.C.
L2	2.5"x12" (5) 1/2" LAYERS BUILT-UP-PLYWOOD	(2) 3/8"Ø BOLTS AT 24" O.C.
L3	2.5"x7.25" (5) 1/2" LAYERS BUILT-UP-PLYWOOD	3/8"Ø BOLTS AT 24" O.C.
L4	2x8	(4) #10X3.5 SCREWS AT 24" O.C.

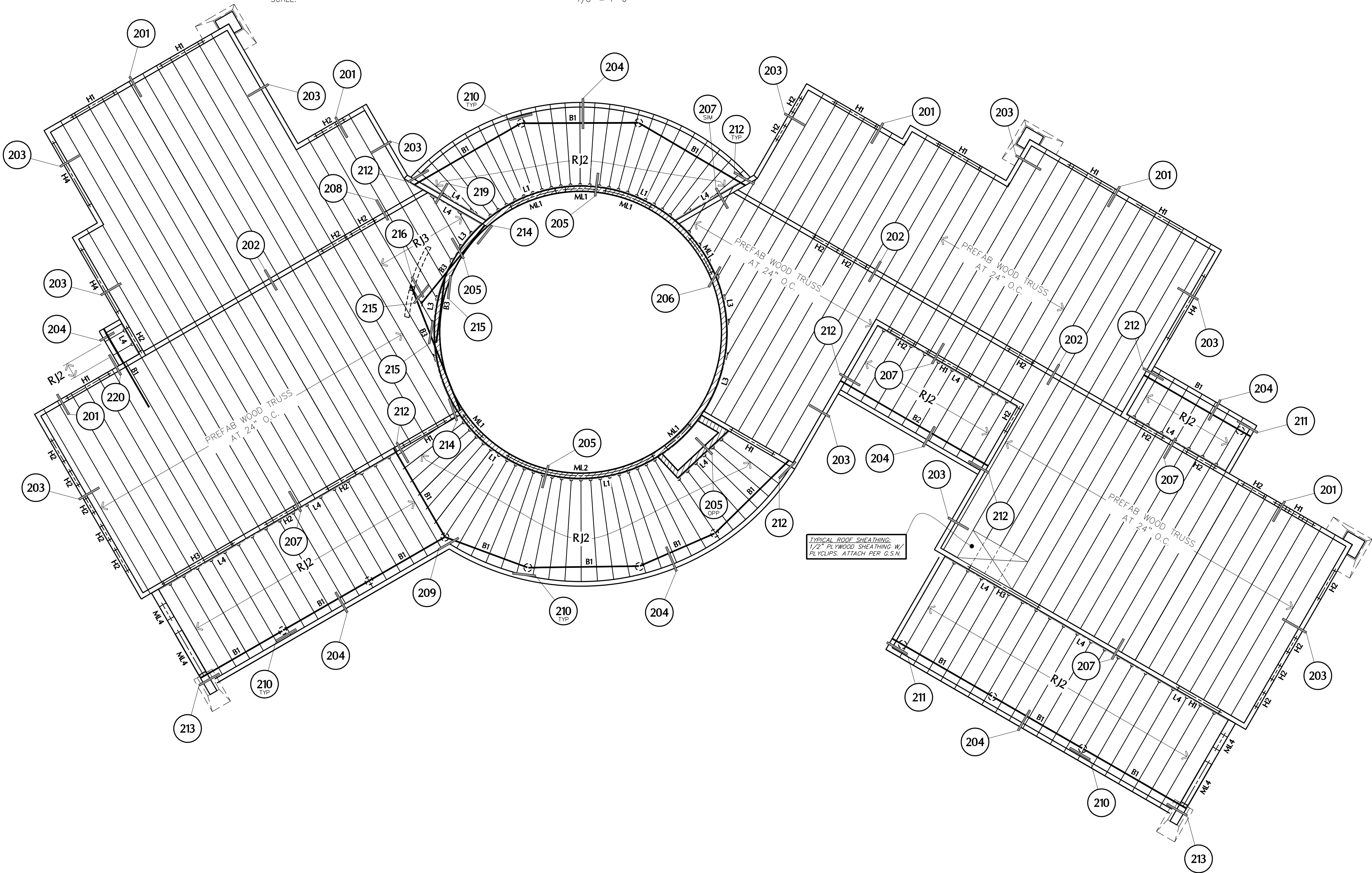
MASONRY LINTEL (ML) SCHEDULE		
		
NOTE: 1. VERTICAL REINFORCING TO MATCH AND LAP WALL REINFORCING PER G.S.N. 2. EXTEND GROUT, OPEN END MASONRY UNITS AND REINFORCING 2'-0" PAST EACH JAMB. USE CORNER BARS WHERE 2'-0" CANNOT BE ACHIEVED.		
MARK	HEIGHT	REINFORCING
ML1	80"	(2) #5 HORIZONTAL
ML2	80"	(2) #5 HORIZONTAL AND #5 AT 16" O.C. VERTICAL
ML3	64"	(2) #5 HORIZONTAL AND #5 AT 16" O.C. VERTICAL
ML4	64"	(2) #5 HORIZONTAL

WALL SCHEDULE	
NOTE: -SEE PLAN SCHEDULES, DETAILS AND GENERAL STRUCTURAL NOTES FOR ADDITIONAL INFORMATION.	
AS SEEN ON PLANS	INDICATES-
	STRUCTURAL WALL BELOW (BEARING WALL, SHEARWALL, OR EXTERIOR WALL)
	NON-STRUCTURAL WALL BELOW
	PARAPET WALL

ROOF FRAMING PLAN NOTES	
1.	VERIFY ALL DIMENSIONS WITH ALL ARCHITECTURAL DRAWINGS.
2.	B1, B2, ETC. - AS SHOWN ON PLAN INDICATES A BEAM. SEE BEAM SCHEDULE FOR ADDITIONAL INFORMATION.
3.	RJ1, RJ2, ETC. - AS SHOWN ON PLAN INDICATES ROOF JOISTS. SEE ROOF JOIST SCHEDULE FOR ADDITIONAL INFORMATION.
4.	H1, H2, ETC. - AS SHOWN ON PLAN INDICATES A HEADER. SEE HEADER SCHEDULE FOR ADDITIONAL INFORMATION.
5.	ML1, ML2, ETC. - AS SHOWN ON PLAN INDICATES A MASONRY LINTEL. SEE MASONRY LINTEL SCHEDULE FOR ADDITIONAL INFORMATION.
6.	FOR MISCELLANEOUS LINTELS NOT SHOWN, SEE G.S.N. MASONRY CONTRACTOR SHALL COORDINATE WITH OTHER TRADES FOR SIZES AND LOCATIONS.
7.	L1, L2, ETC. - AS SHOWN ON PLAN INDICATES A LEDGER. SEE LEDGER SCHEDULE FOR ADDITIONAL INFORMATION.
8.	MCJ - AS SHOWN ON PLAN INDICATES A MASONRY CONTROL JOINT IN A MASONRY WALL. SEE G.S.N. AND TYPICAL DETAIL. JOINTS MAY BE SHOWN, BUT NOT NOTED ON THIS PLAN. SEE FOUNDATION PLAN FOR NOTED LOCATIONS.
9.	FOR CLARITY, DETAILS MAY SHOW ONLY ONE SIDE OF FRAMING CONDITION.
10.	 INDICATES HVAC EQUIPMENT ON ROOF OR IN ATTIC SPACE. SEE TYPICAL DETAILS FOR FRAMING INFORMATION.
11.	VERIFY EXACT SIZE AND WEIGHT OF EQUIPMENT ON ROOF WITH MECHANICAL CONTRACTOR.

HIGH ROOF FRAMING PLAN

SCALE: 1/8" = 1'-0"



BEAM (B) SCHEDULE		
MARK	SIZE	CAMBER
B1	5 1/2"x12 GLB	.
B2	5 1/2"x12 GLB	.
B3	W12X40	.

HEADER (H) SCHEDULE		
MARK	SIZE	REMARKS
H1	4x8	OR (2) 2X10
H2	4x8	OR (2) 2X8
H3	6X12 DF #1	OR 3 1/2"x10.5 GLB
H4	4X10	OR 3 1/2"x6 GLB

ROOF JOIST (RJ) SCHEDULE		
MARK	SIZE	REMARKS
RJ1	16" TJI 560 SERIES AT 24" O.C.	---
RJ2	2X8 AT 24" O.C.	---
RJ3	2X10 AT 24" O.C.	---

LOCATION OF DETAILS		
DETAILS	SHEET	DESCRIPTION
---	S1	GENERAL STRUCTURAL NOTES
T1-T12	SL1	TYPICAL DETAILS
101-114	S4	FOUNDATION DETAILS
201-220	S5	FRAMING DETAILS

JOB NO. 201-0287	PROJECT MANAGER: AGH	CAD OPERATOR: MJS
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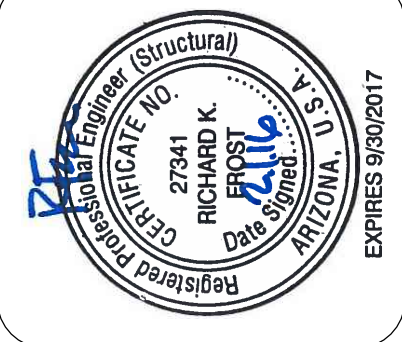
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ROOF FRAMING PLAN

SCALE: 1/8" = 1'-0"

REVISIONS	BY

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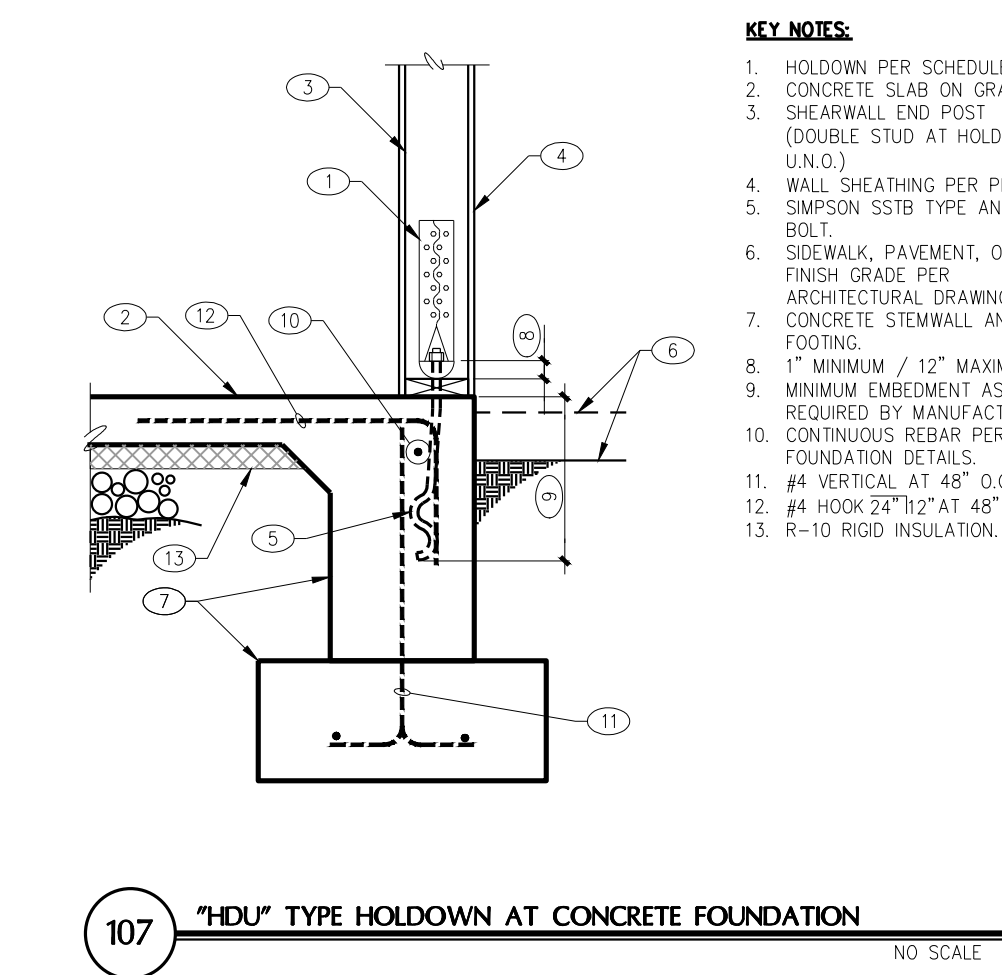
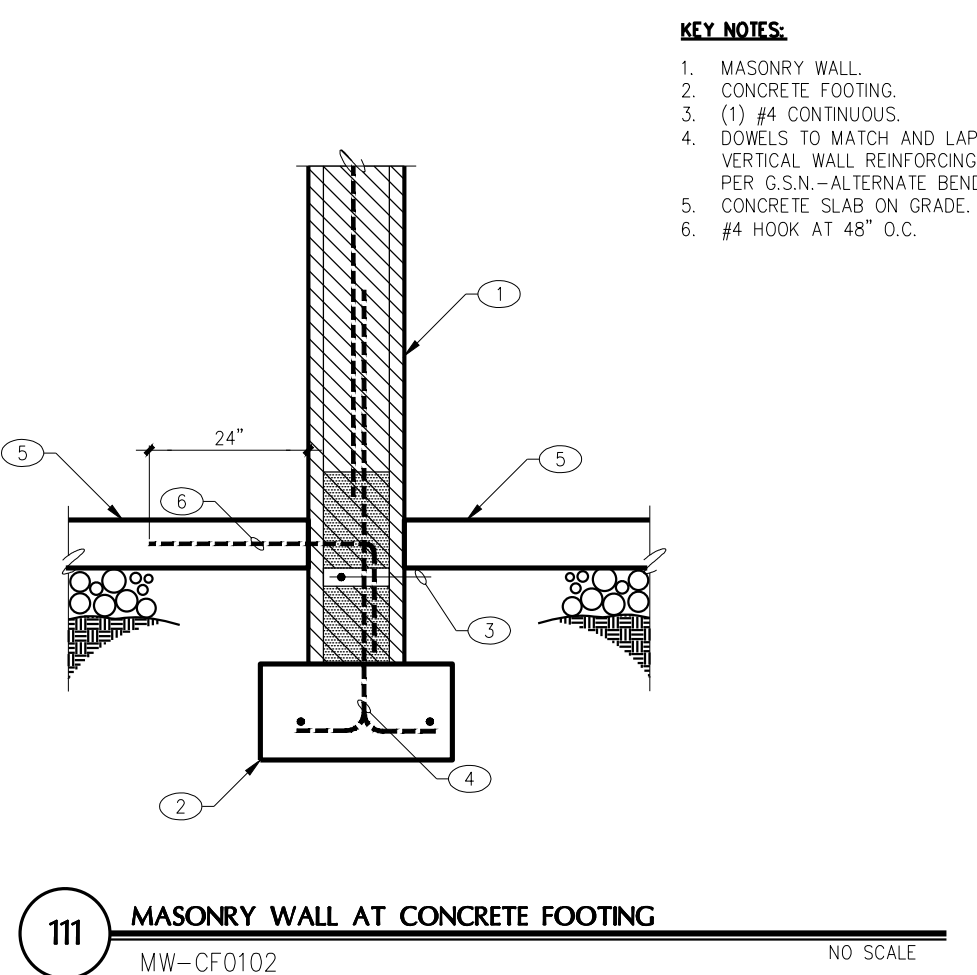
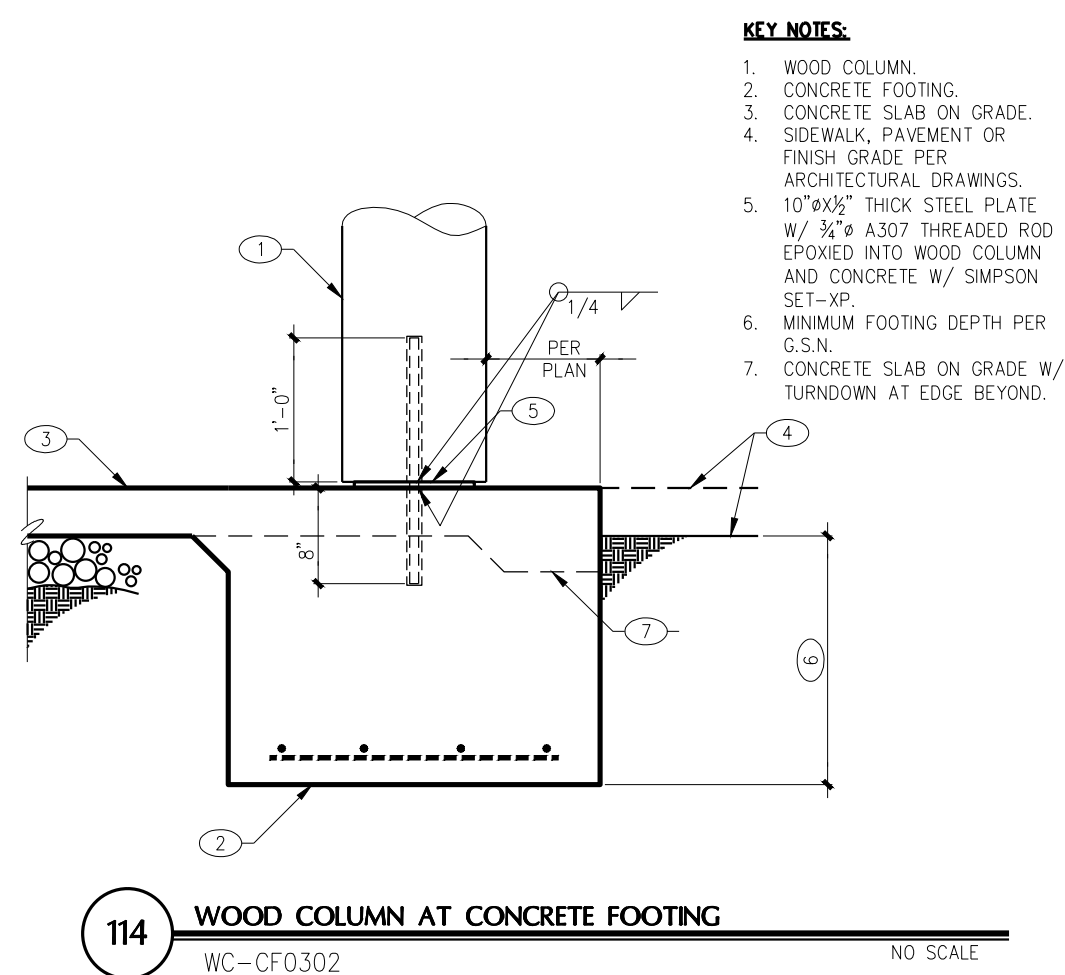
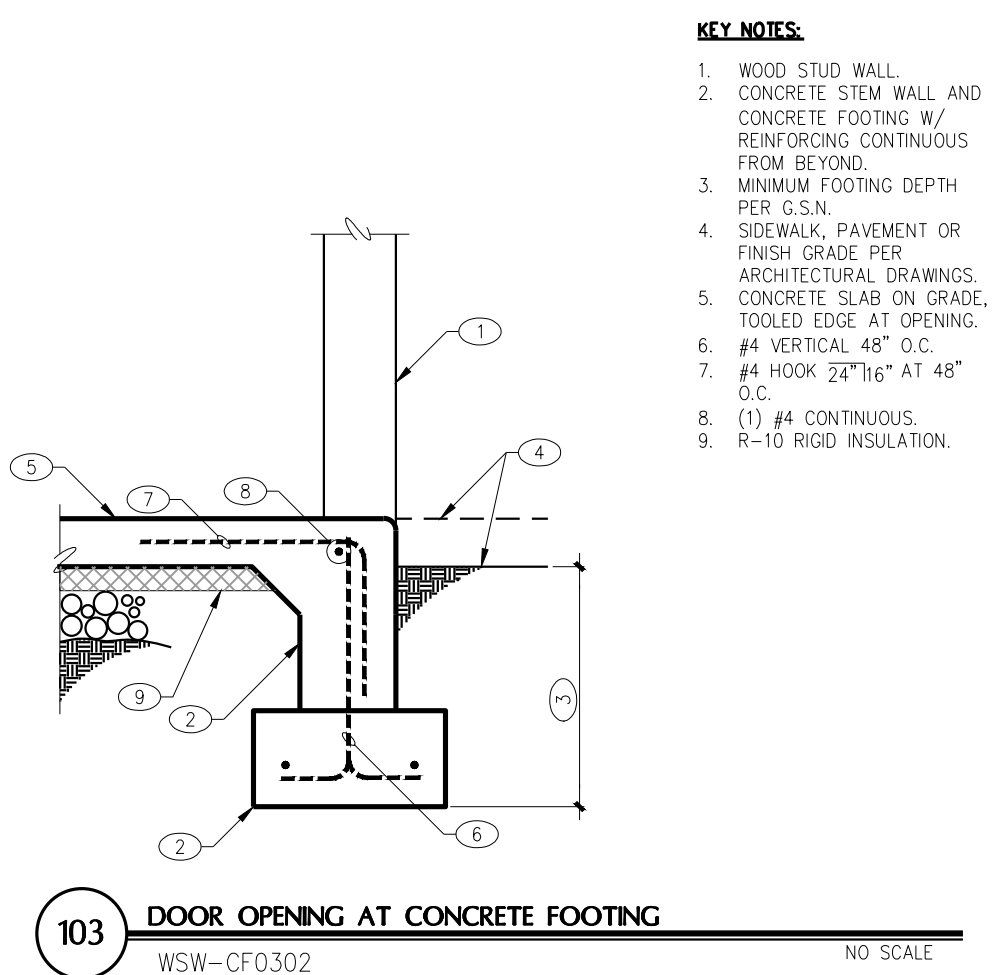
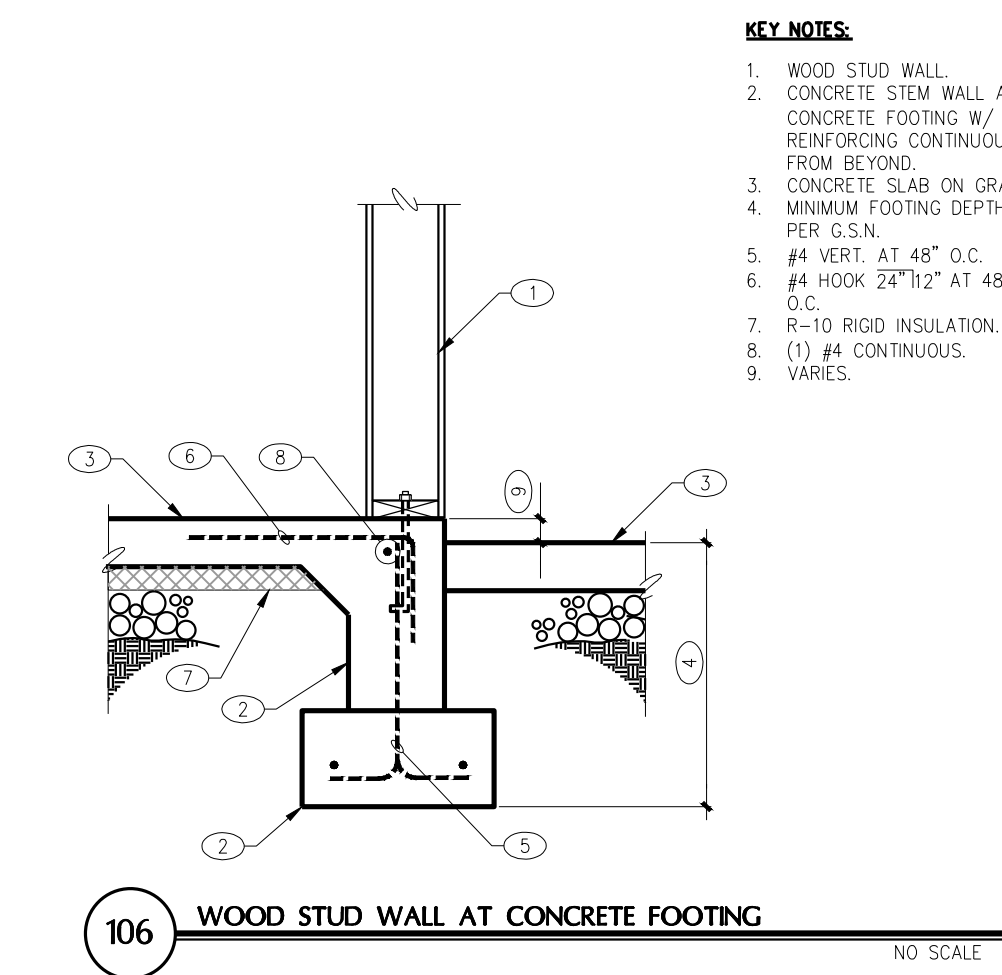
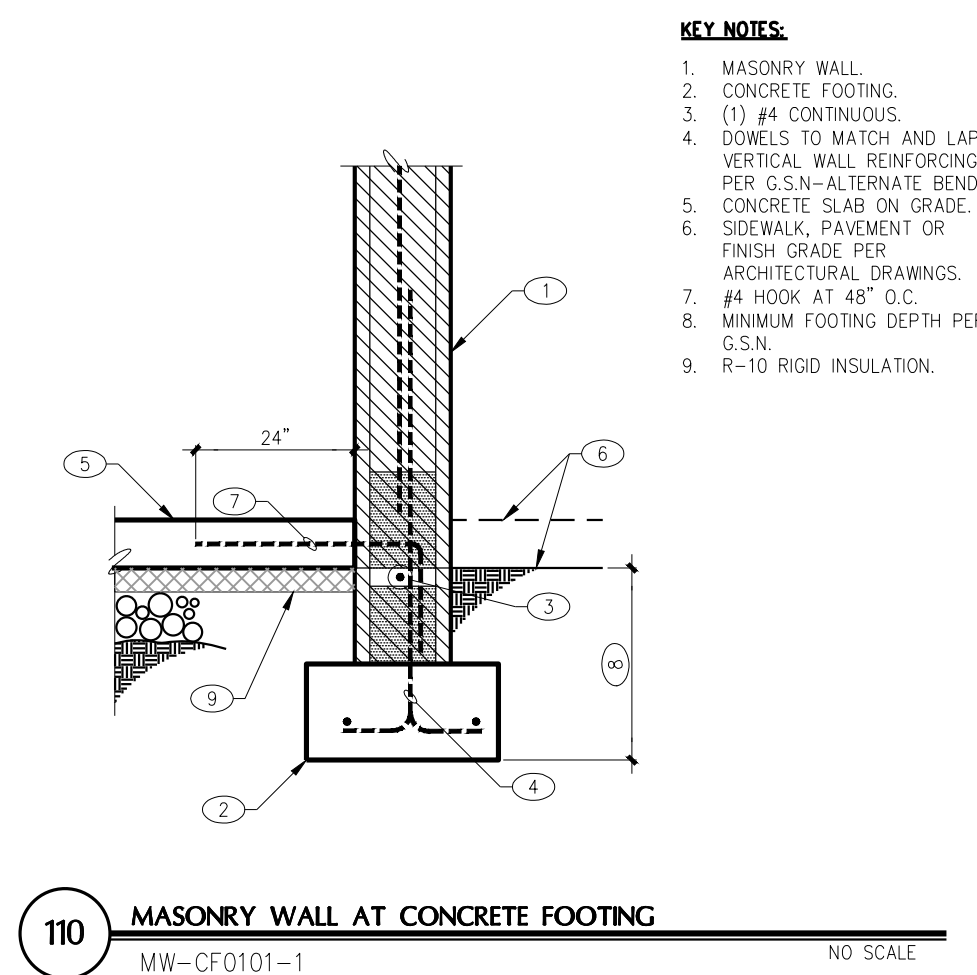
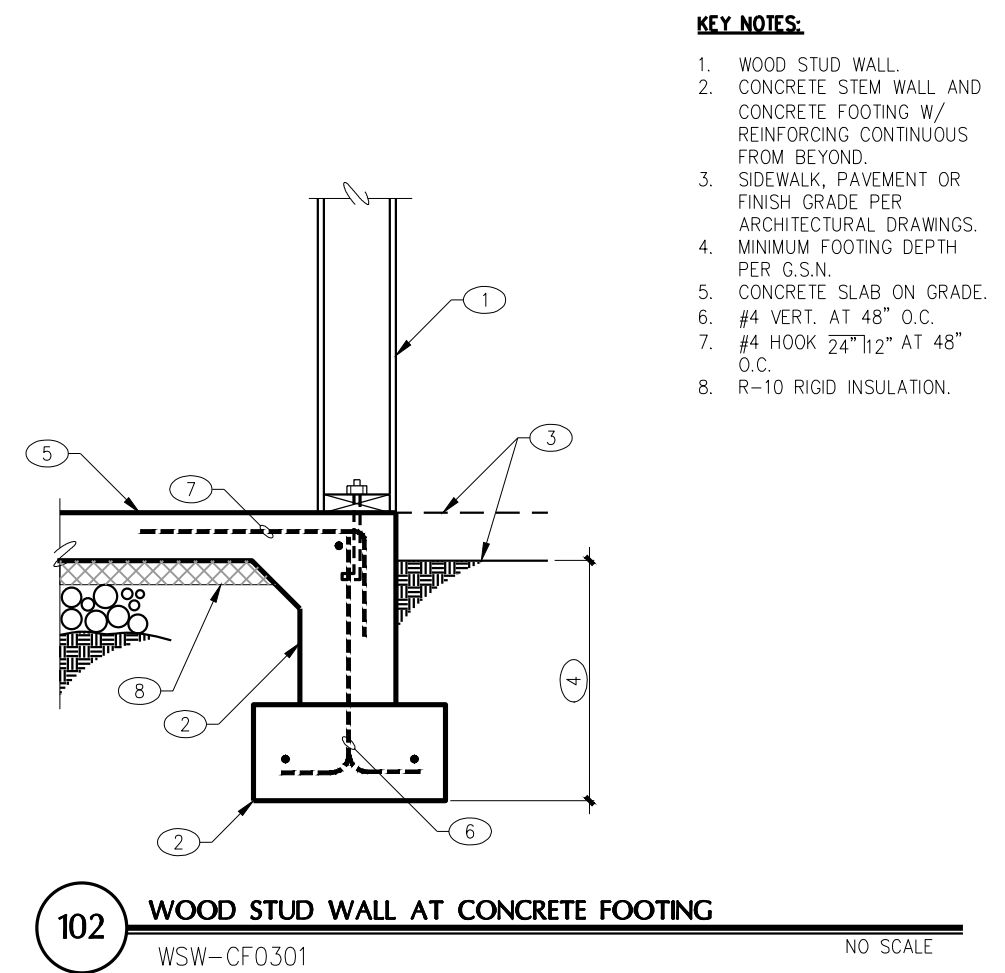
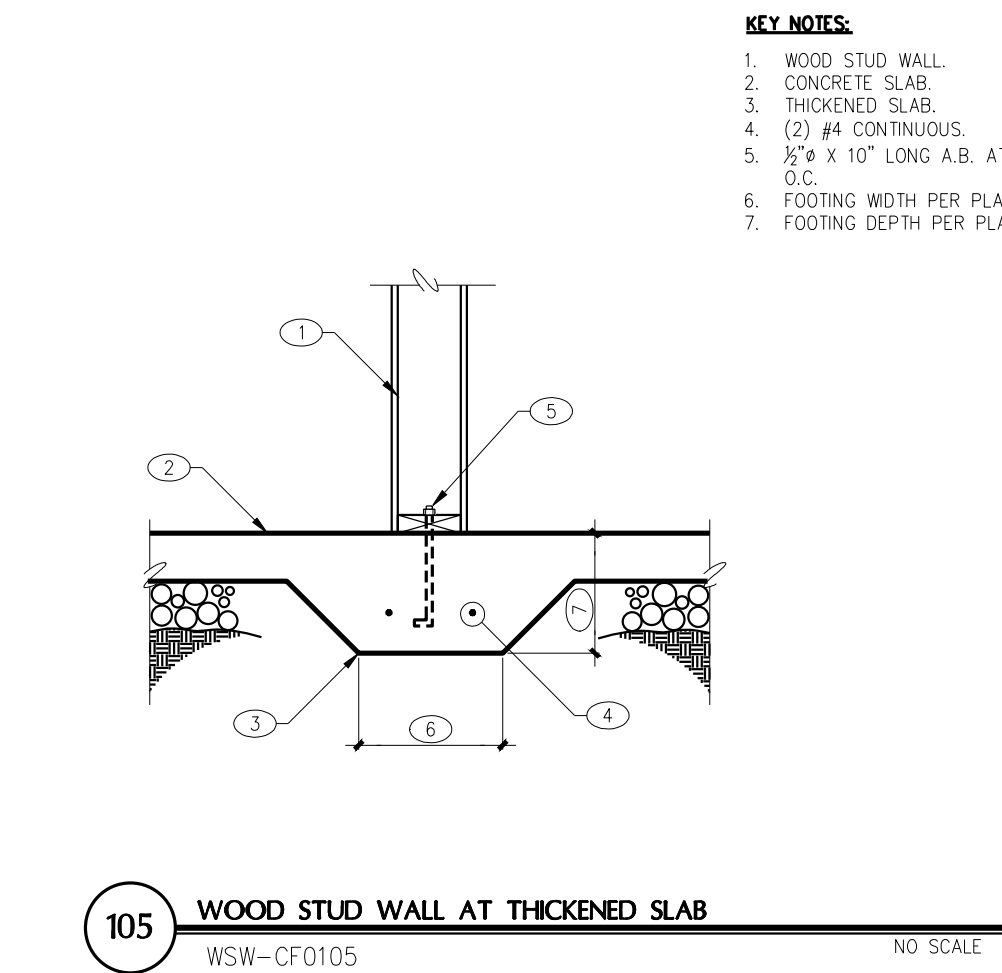
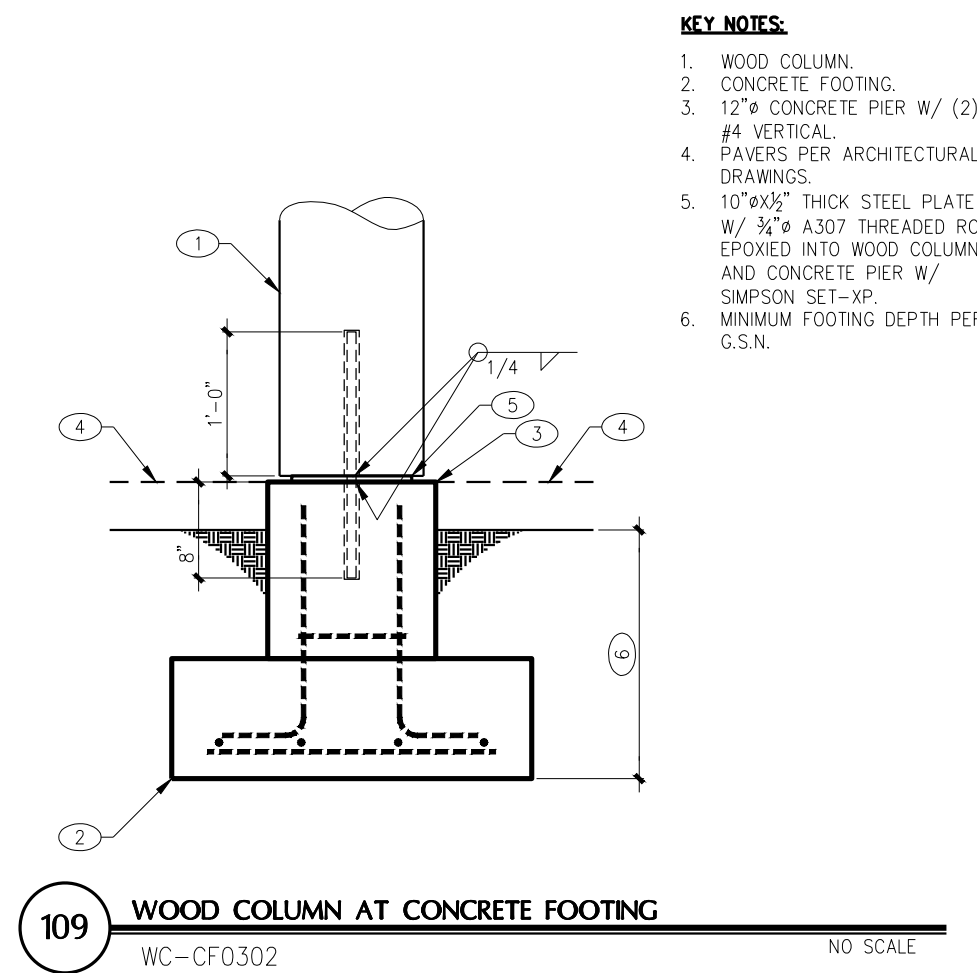
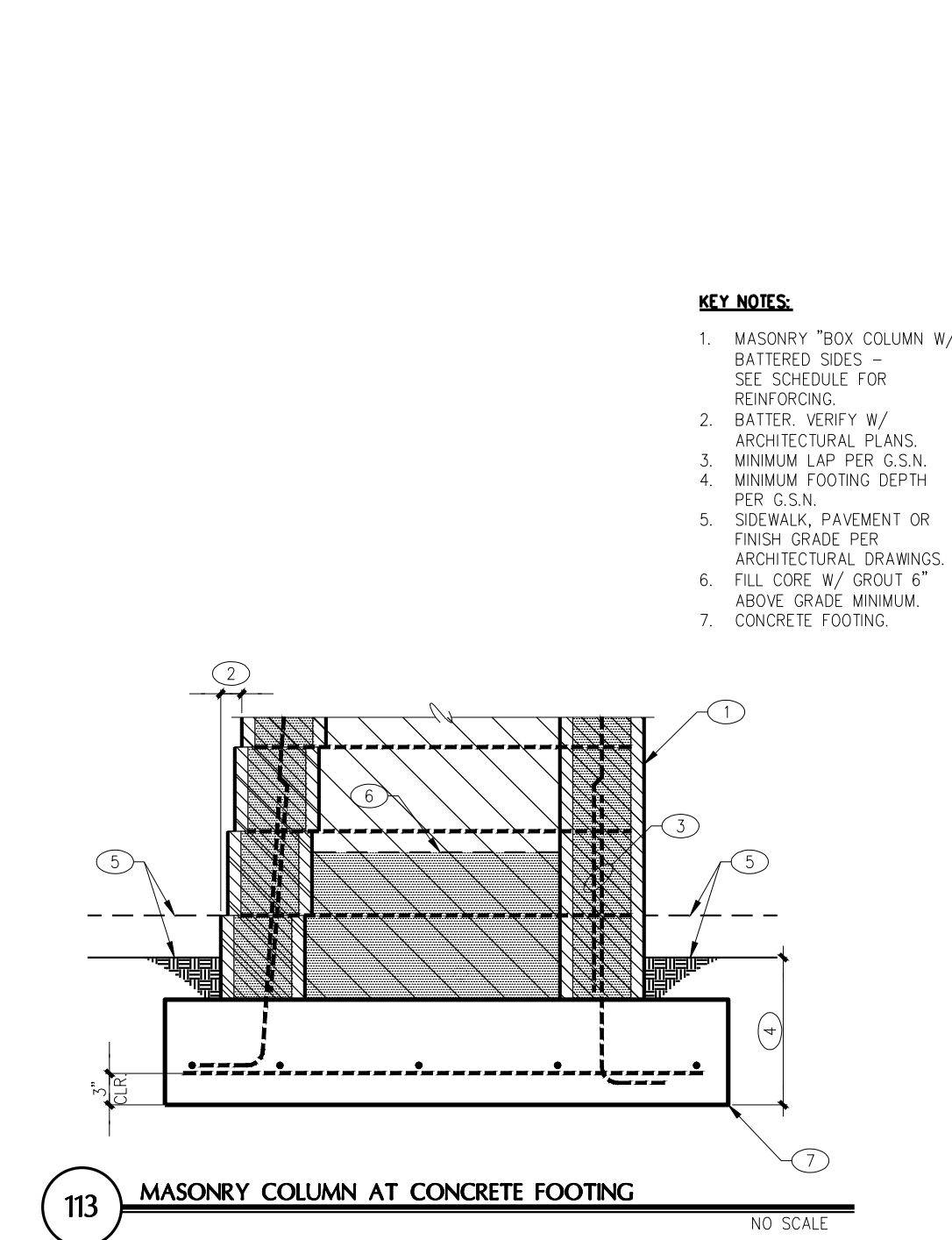
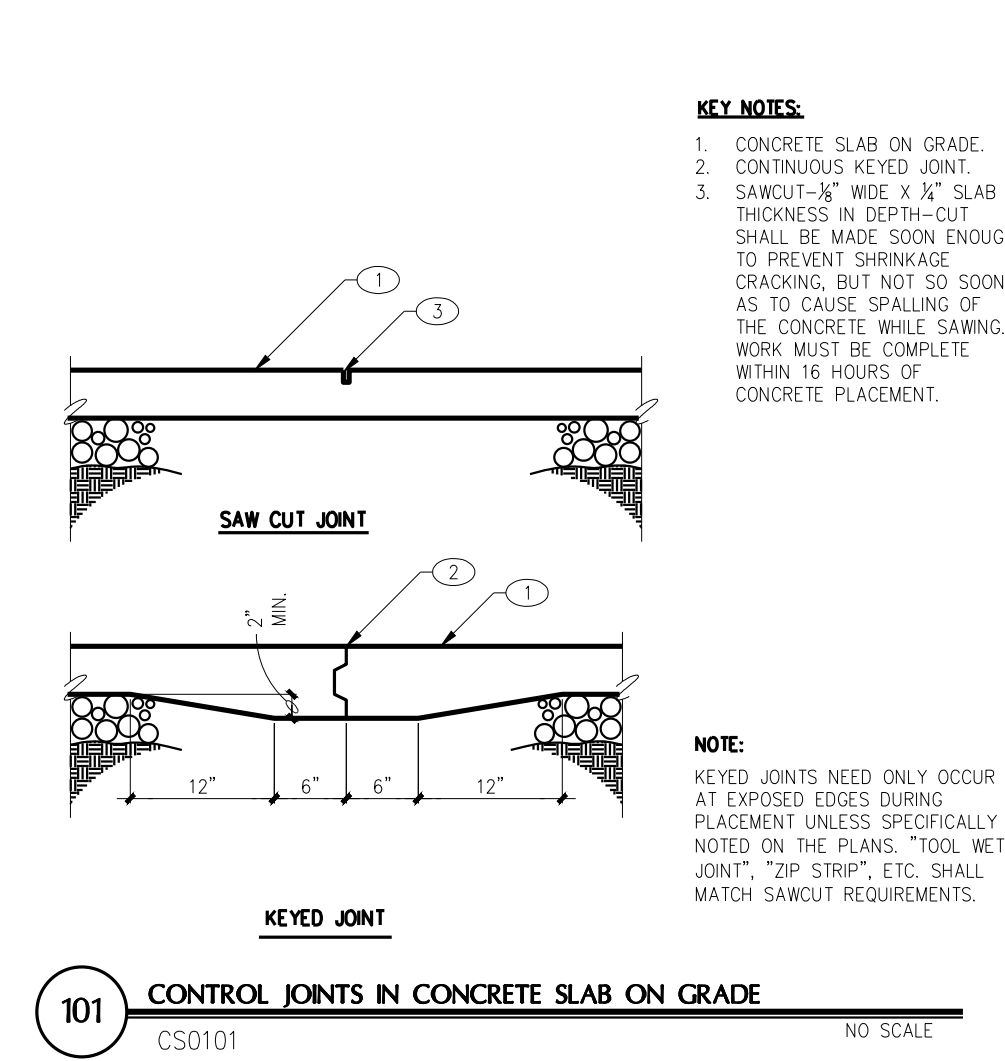
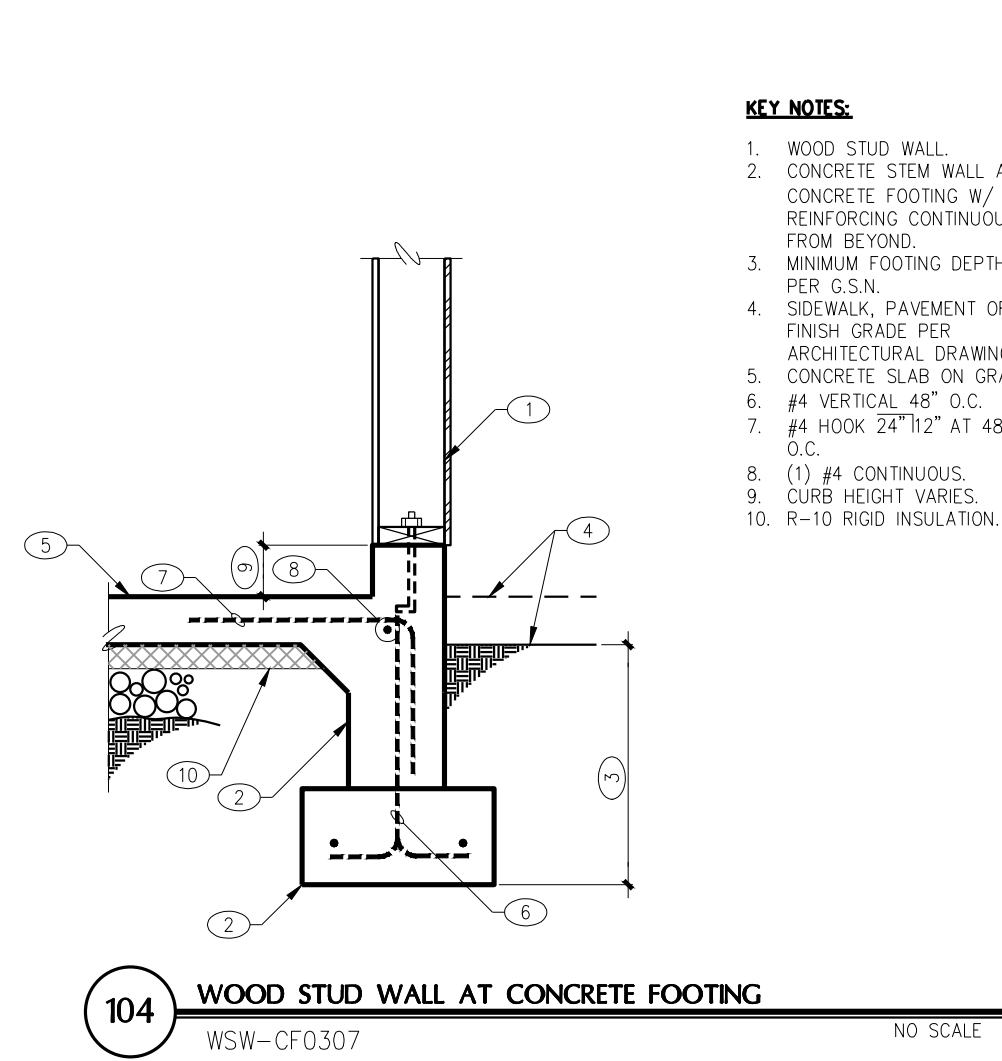
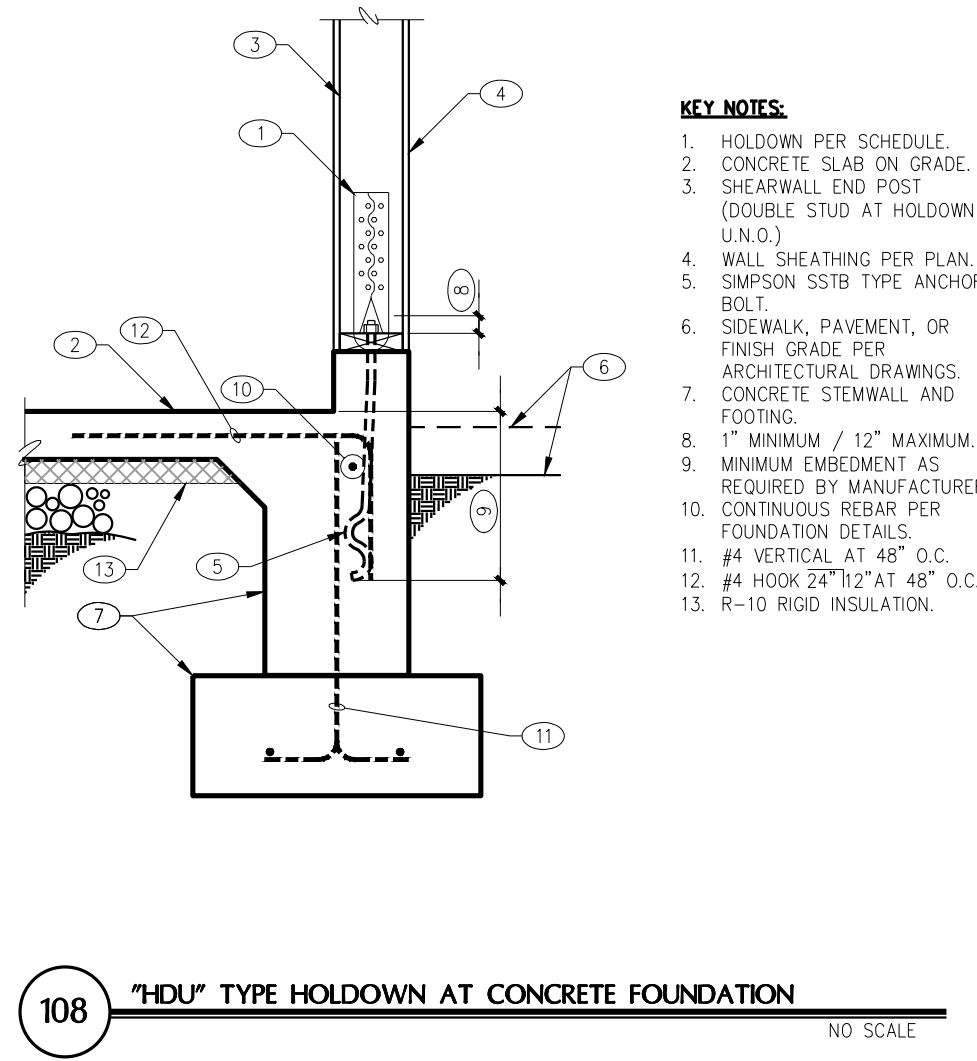
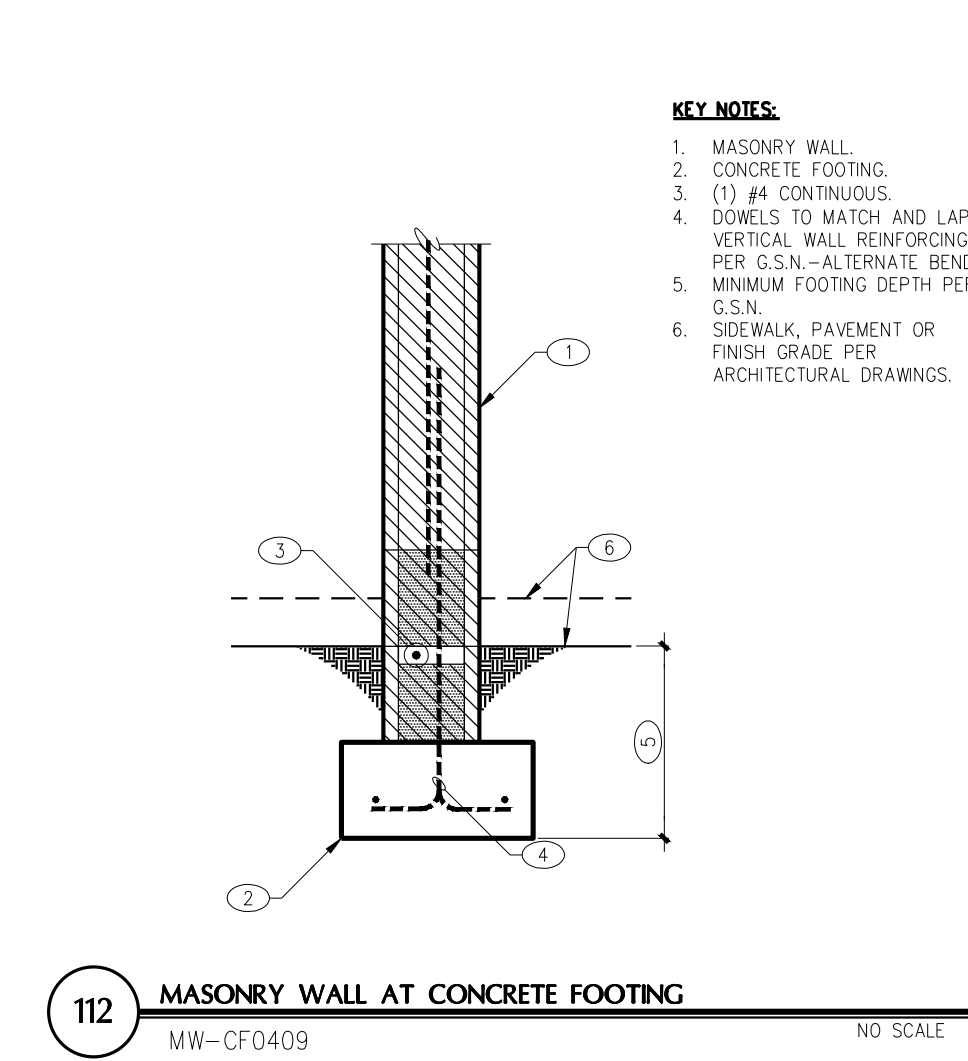
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ARCHITECTURE & PLANNING

DRAWING: ROOF FRAMING PLAN
PROJECT: Lembe-Mellul Residence
PRESCOTT, AZ 86304

DRAWN BY MJS
CHECKED BY A.K.
DATE 2.1.16
SCALE AS NOTED
JOB NO. 201-0287
SHEET





FOUNDATION DETAILS 101-113

JOB NO.: 2015-0287 PROJECT MANAGER: AGK CAD OPERATOR: MJS

FROST STRUCTURAL ENGINEERING
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REVISIONS	BY

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W. Alan Kenson & Associates, P.C.

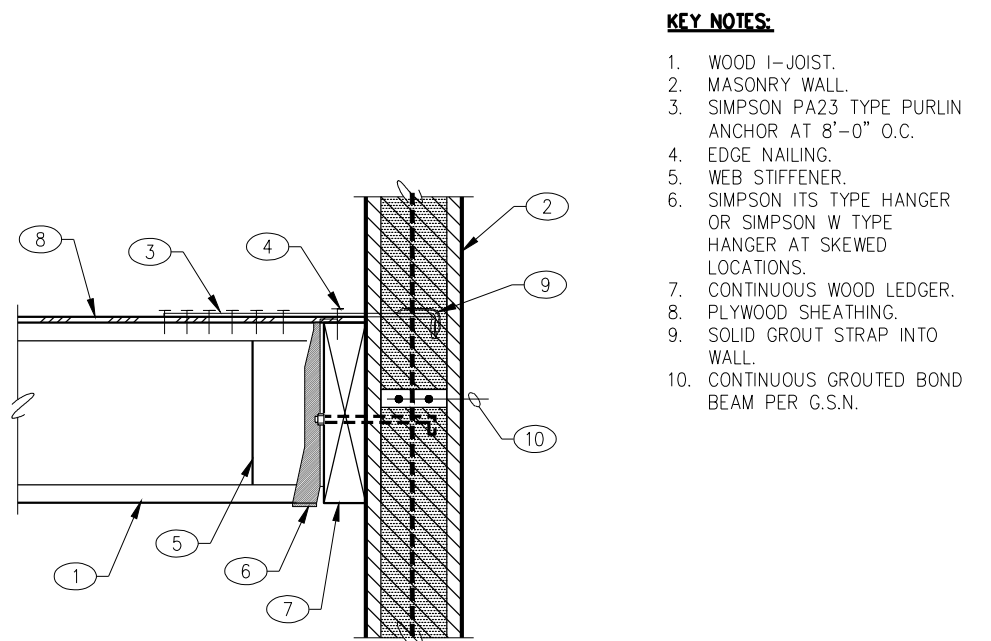
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ARCHITECTURE & PLANNING

DRAWING: FOUNDATION DETAILS 101-113

PROJECT: Lembke-Mellul Residence
PRESCOTT, AZ 86304

DRAWN BY: MJS
CHECKED BY: A.K.
DATE: 2.1.16
SCALE: AS NOTED
JOB NO.: 2015-0287
SHEET: 4



KEY NOTES:

1. WOOD I-JOIST.
2. MASONRY WALL.
3. SIMPSON PA23 TYPE PURLIN.
4. ANCHOR AT 6'-0" O.C.
5. EDGE NAILING.
6. WEB STIFFENER.
7. SIMPSON ITS TYPE HANGER OR SIMPSON W TYPE HANGER AT SKEWED LOCATIONS.
8. CONTINUOUS WOOD LEDGER.
9. PLYWOOD SHEATHING.
10. SOLID GROUT STRAP INTO WALL.
11. CONTINUOUS GROUTED BOND BEAM PER G.S.N.

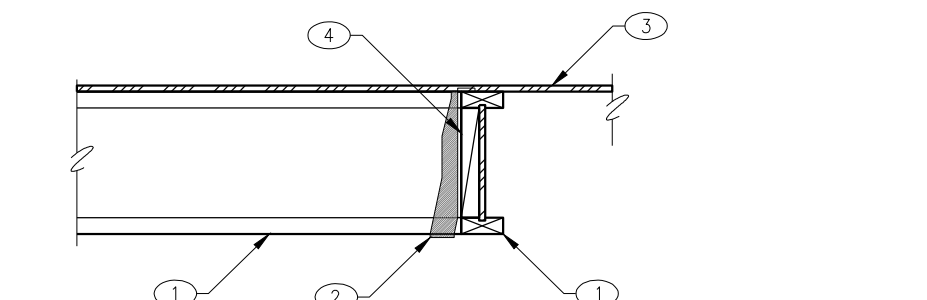
NOTE:

STRAP MAY BE PLACED UNDER PLYWOOD AT CONTRACTOR'S OPTION.

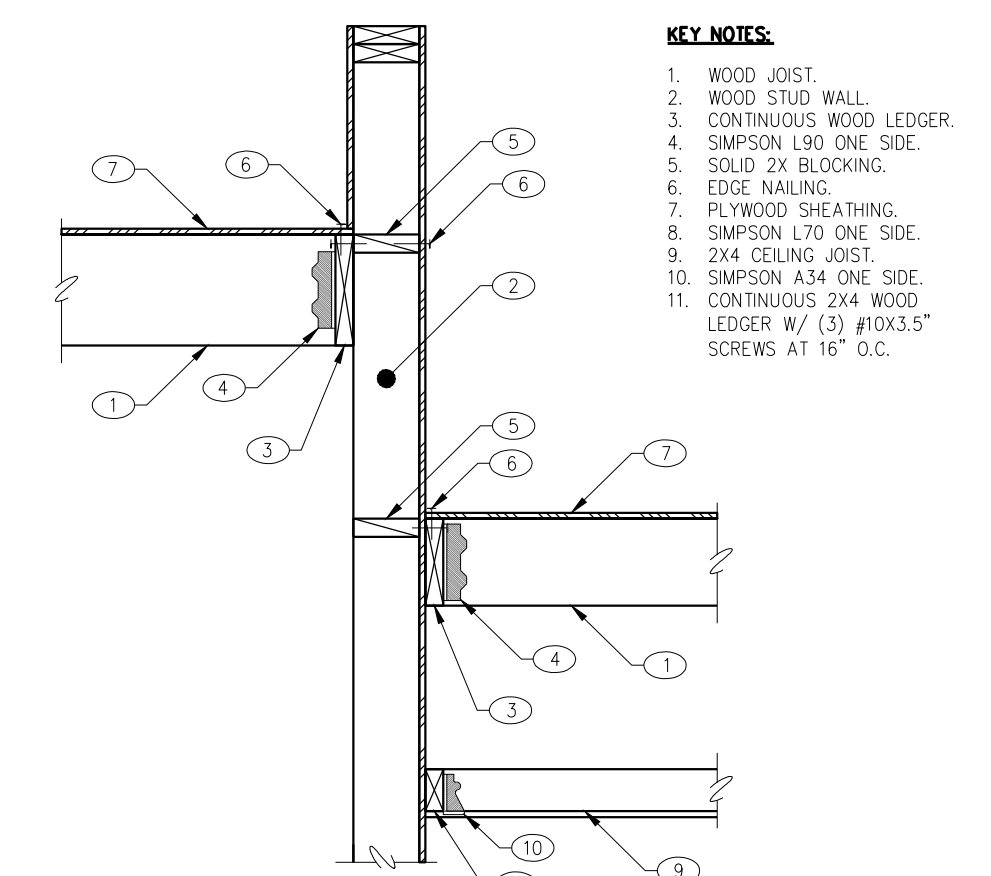
217 WOOD I-JOIST AT MASONRY WALL
WJ-MW0101 NO SCALE

KEY NOTES:

1. WOOD I-JOIST.
2. SIMPSON ITS TYPE HANGER.
3. PLYWOOD SHEATHING.
4. WEB STIFFENER.



218 WOOD I-JOIST AT WOOD I-JOIST
NO SCALE



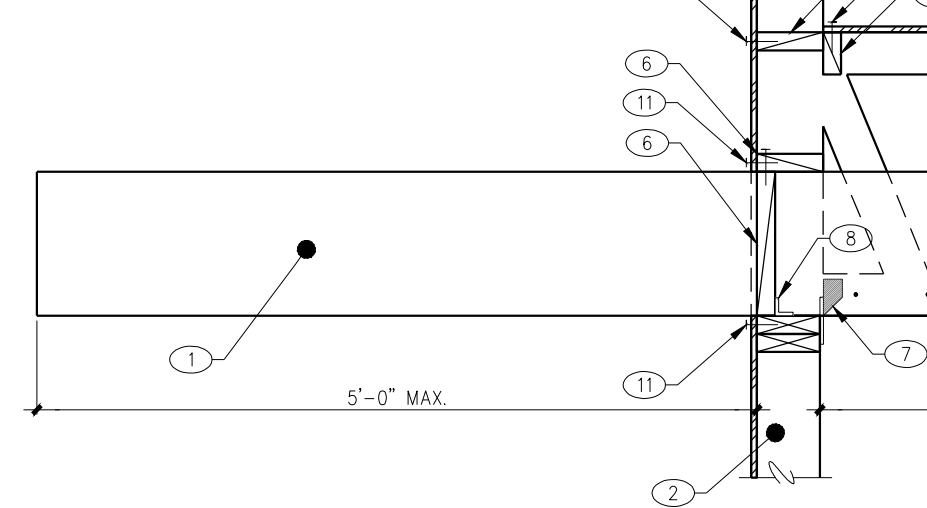
KEY NOTES:

1. WOOD JOIST.
2. WOOD STUD WALL.
3. CONTINUOUS WOOD LEDGER.
4. SIMPSON L80 ONE SIDE.
5. SOLID 2X BLOCKING.
6. EDGE NAILING.
7. PLYWOOD SHEATHING.
8. SIMPSON L70 ONE SIDE.
9. 2X4 CEILING JOIST.
10. SIMPSON A34 ONE SIDE.
11. CONTINUOUS 2X4 WOOD LEDGER W/ (3) #10X3.5" SCREWS AT 16" O.C.

219 WOOD JOIST AT WOOD STUD WALL
NO SCALE

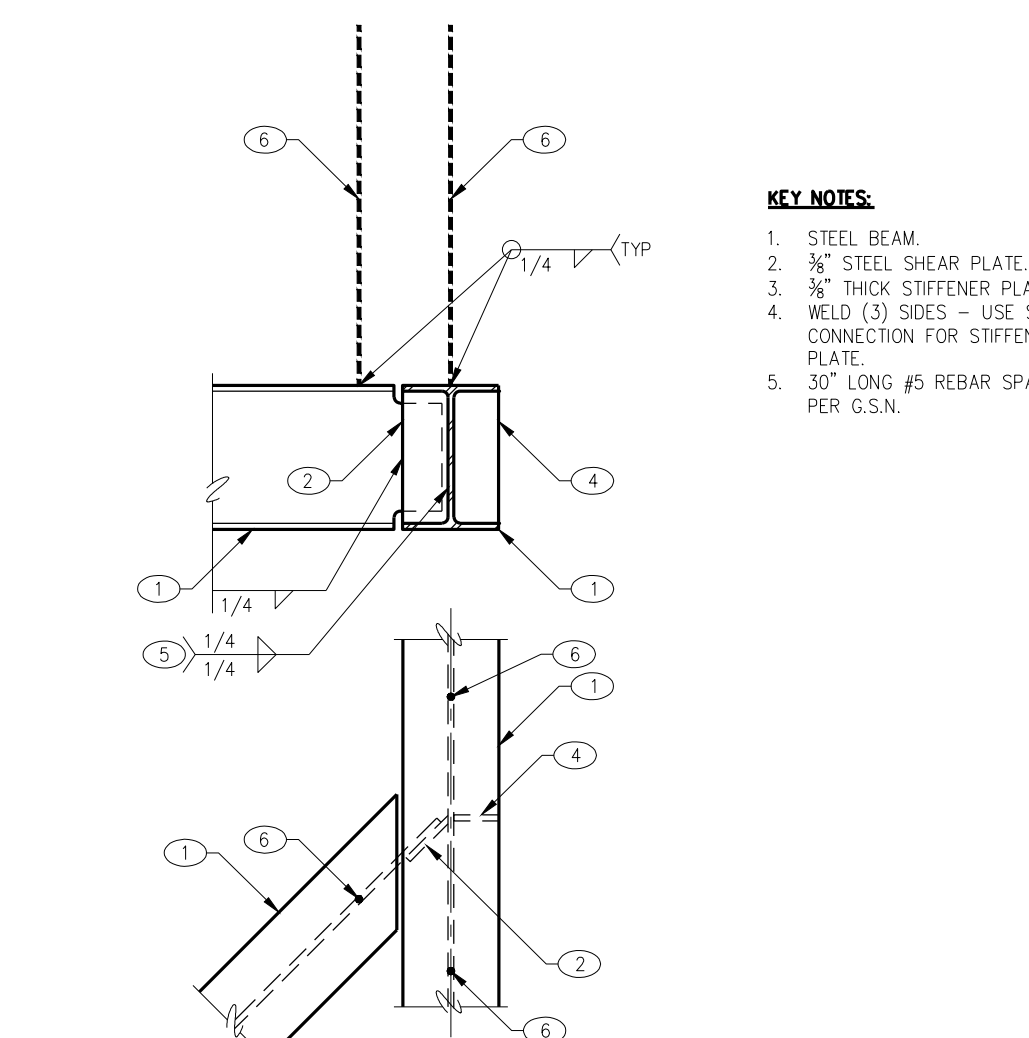
KEY NOTES:

1. WOOD BEAM.
2. WOOD STUD WALL.
3. PREFAB WOOD TRUSS.
4. 16d NAILS TRUSS TO BEAM AT 6" O.C.
5. 2X6 BLOCK BETWEEN TRUSSES W/ (2) 16d AT EACH END AND (4) 16d TO END OF BEAM.
6. SOLID 2X BLOCKING.
7. SIMPSON H2.5A AT BEAM.
8. SIMPSON A35.
9. PLYWOOD ROOF SHEATHING.
10. PLYWOOD WALL SHEATHING.
11. EDGE NAILING.
12. RIPPED 2X6 CONTINUOUS FOR (3) BAYS W/ (2) 16d TO EACH TRUSS AND (2) 16d TO BEAM.

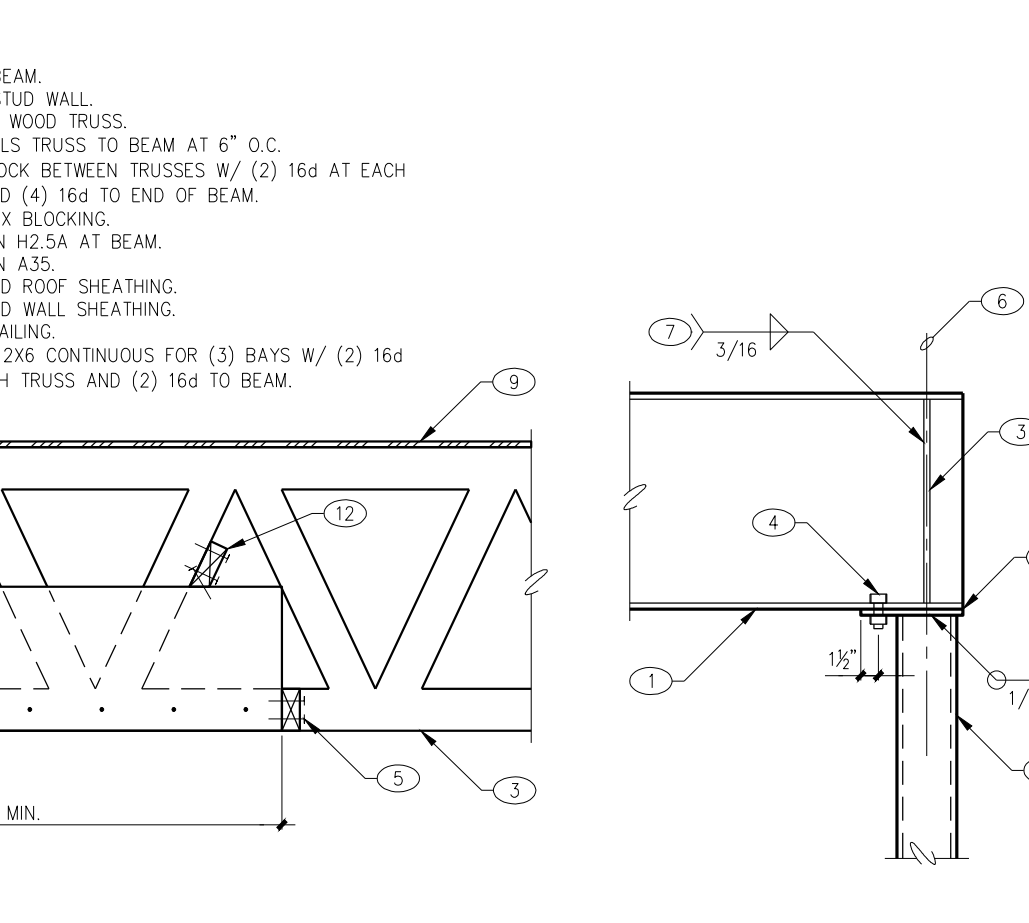


220 WOOD BEAM AT WOOD STUD WALL
NO SCALE

214 STEEL BEAM AT MASONRY WALL
SB-MW0301 NO SCALE



215 STEEL BEAM AT STEEL BEAM
NO SCALE



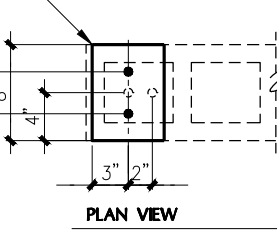
216 STEEL BEAM AT STEEL COLUMN
SB-SC0101 NO SCALE

KEY NOTES:

1. WOOD BEAM.
2. WOOD POST.
3. 1/2" THICK X 3" BENT PLATE W/ (1) 3/8" THRU-BOLT.
4. 8"x6"x12" BACK PLATE W/ (4) 3/8" HEADED STUDS.
5. MASONRY WALL/COLUMN.

KEY NOTES:

1. STEEL BEAM.
2. MASONRY WALL.
3. BOND BEAM PER G.S.N.
4. WELD REBAR TO EACH SIDE OF BEAM WHEN TEMPERATURE IS STABLE.
5. (2) #5 X 48" LONG REBAR.
6. (2) 3/8" THREADED STUDS WELDED TO BEARING PLATE AT BEAM GAUGE WITH NUT AND WASHER.
7. 2" LONG HORIZONTALLY SLOTTED HOLE ON BEAM GAUGE-EACH SIDE OF WEB.
8. WRAP 8" WITH MASTIC.
9. STEEL BEARING PLATE 8"x6"x3/4 WITH (2) #5 X 16" LONG REBAR DOWELS OVER 1"-DRYPACK.
10. (2) #5 X 3'-6" LONG IN 8" DEEP X 4'-0" LONG GROUTED BOND BEAM.
11. 7/8" WIDE X 3/8" THICK STEEL PLATE CONTINUOUS ALONG BEAM WHERE MASONRY IS ABOVE.
12. 30" LONG #5 REBAR - SPACING PER G.S.N.



217 WOOD BEAM AT MASONRY WALL
NO SCALE

219 WOOD BEAMS AT WOOD POST
NO SCALE

210 WOOD BEAM AT WOOD POST
WB-WP0203 NO SCALE

211 WOOD BEAM AT WOOD POST
NO SCALE

212 WOOD BEAM AT WOOD STUD WALL
WB-WP0604 NO SCALE

213 WOOD BEAM AT MASONRY WALL
NO SCALE

214 STEEL BEAM AT MASONRY WALL
SB-MW0301 NO SCALE

215 STEEL BEAM AT STEEL BEAM
NO SCALE

216 STEEL BEAM AT STEEL COLUMN
SB-SC0101 NO SCALE

217 WOOD BEAM AT MASONRY WALL
NO SCALE

219 WOOD BEAMS AT WOOD POST
NO SCALE

210 WOOD BEAM AT WOOD POST
WB-WP0203 NO SCALE

211 WOOD BEAM AT WOOD POST
NO SCALE

212 WOOD BEAM AT WOOD STUD WALL
WB-WP0604 NO SCALE

213 WOOD BEAM AT MASONRY WALL
NO SCALE

214 STEEL BEAM AT MASONRY WALL
SB-MW0301 NO SCALE

215 STEEL BEAM AT STEEL BEAM
NO SCALE

216 STEEL BEAM AT STEEL COLUMN
SB-SC0101 NO SCALE

217 WOOD BEAM AT MASONRY WALL
NO SCALE

219 WOOD BEAMS AT WOOD POST
NO SCALE

210 WOOD BEAM AT WOOD POST
WB-WP0203 NO SCALE

211 WOOD BEAM AT WOOD POST
NO SCALE

212 WOOD BEAM AT WOOD STUD WALL
WB-WP0604 NO SCALE

213 WOOD BEAM AT MASONRY WALL
NO SCALE

214 STEEL BEAM AT MASONRY WALL
SB-MW0301 NO SCALE

215 STEEL BEAM AT STEEL BEAM
NO SCALE

216 STEEL BEAM AT STEEL COLUMN
SB-SC0101 NO SCALE

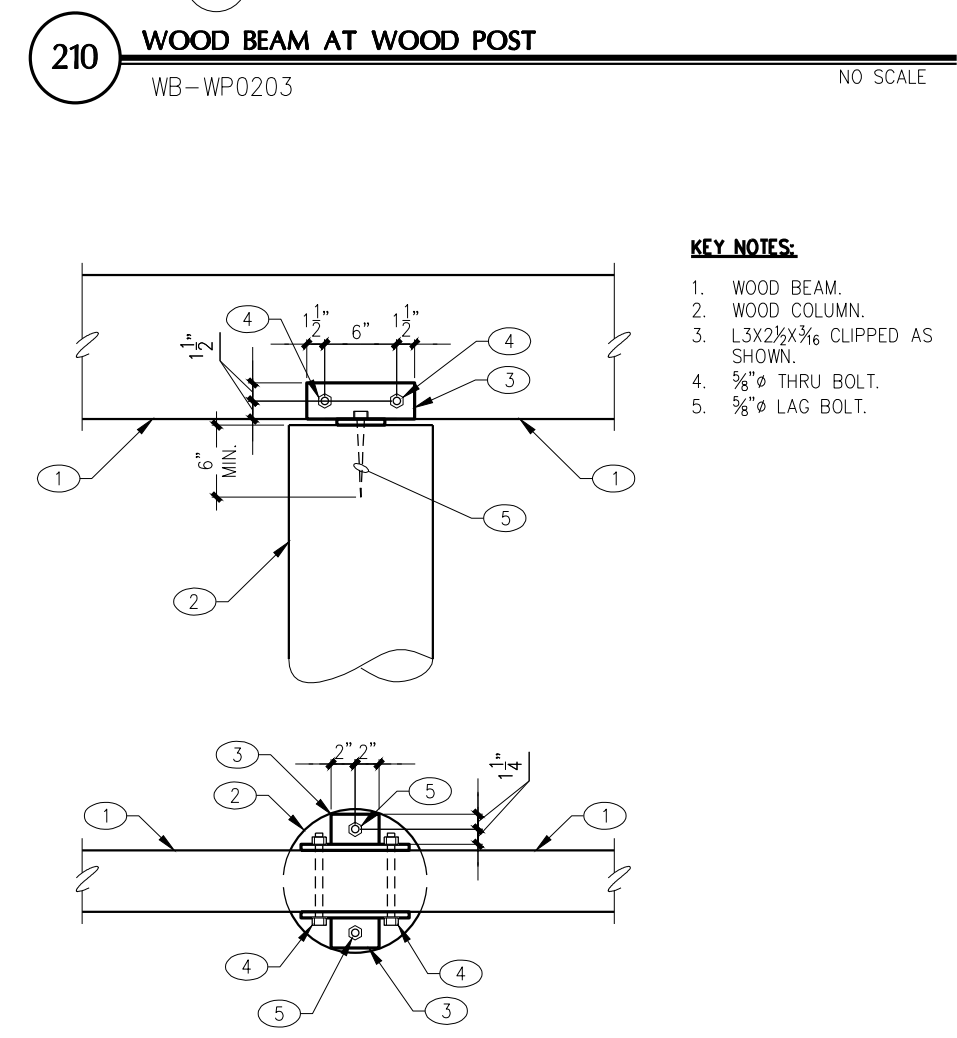
KEY NOTES:

1. STEEL BEAM.
2. STEEL COLUMN.
3. 3/8" STIFFENER PLATE EACH SIDE OF BEAM.
4. (2) 3/8" BOLTS ON BEAM GAUGE.
5. 3/8" CAP PLATE, PLATE WIDTH EQUALS BEAM WIDTH.
6. CENTERLINE OF COLUMN.
7. WELD (3) SIDES-TYPICAL.

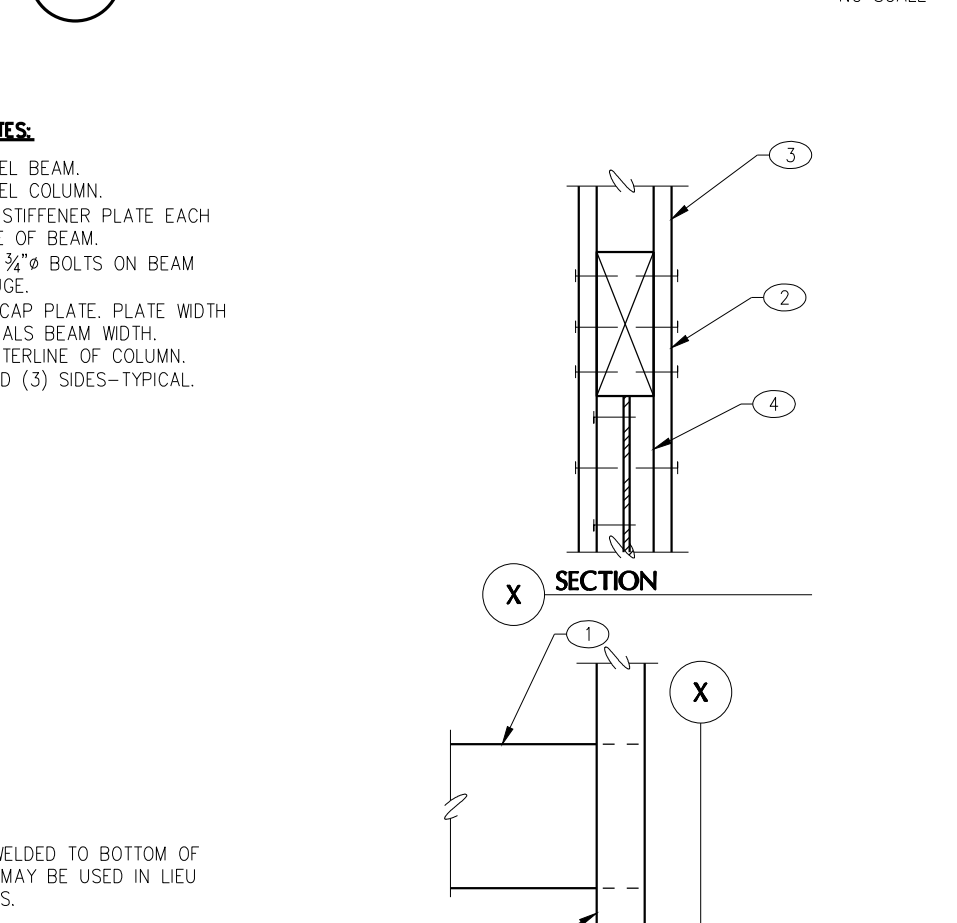
NOTE:

STUDS WELDED TO BOTTOM OF FLANGE MAY BE USED IN LIEU OF BOLTS.

214 STEEL BEAM AT MASONRY WALL
SB-MW0301 NO SCALE



215 STEEL BEAM AT STEEL BEAM
NO SCALE



216 STEEL BEAM AT STEEL COLUMN
SB-SC0101 NO SCALE

217 WOOD BEAM AT MASONRY WALL
NO SCALE

219 WOOD BEAMS AT WOOD POST
NO SCALE

210 WOOD BEAM AT WOOD POST
WB-WP0203 NO SCALE

211 WOOD BEAM AT WOOD POST
NO SCALE

212 WOOD BEAM AT WOOD STUD WALL
WB-WP0604 NO SCALE

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NO SCALE

214 STEEL BEAM AT MASONRY WALL
SB-MW0301 NO SCALE

215 STEEL BEAM AT STEEL BEAM
NO SCALE

216 STEEL BEAM AT STEEL COLUMN
SB-SC0101 NO SCALE

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WB-WP0203 NO SCALE

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WB-WP0604 NO SCALE

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WB-WP0604 NO SCALE

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SB-MW0301 NO SCALE

215 STEEL BEAM AT STEEL BEAM
NO SCALE

MAIN RESIDENCE 2012 IRC M1507 VENTILATION CALC					
TABLE M1507.3.3(1) CONTINUOUS WHOLE-HOUSE MECHANICAL VENTILATION SYSTEM AIRFLOW RATE REQUIREMENTS					
DWELLING UNIT FLOOR AREA (SQUARE FEET)	NUMBER OF BEDROOMS				
	0-1	2-3	4-5	6-7	7+
	AIRFLOW IN CFM				
< 1,500	30	45	60	75	90
1,501 – 3,000	45	60	75	90	105
3,001 – 4,500	60	75	90	105	120
4,501 – 6,000	75	90	105	120	135
6,001 – 7,500	90	105	120	135	150
> 7,500	105	120	135	150	165
DWELLING UNIT FLOOR AREA = 4,520 NUMBER OF BEDROOMS = 4 MECHANICAL VENTILATION REQUIRED = 105 CFM (PER TABLE TABLE M1507.3.3(1)) ZONE 1 (MASTER 1) FLOOR AREA =1,910 (42% OF TOTAL DWELLING) ZONE 2 (GREAT RM) FLOOR AREA =1,480 (33% OF TOTAL DWELLING) ZONE 3 (MASTER 2) FLOOR AREA =1,130 (25% OF TOTAL DWELLING) VENTILATION TO EACH ZONE ZONE 1 = 105 x 42% = 44 CFM ZONE 2 = 105 x 33% = 35 CFM ZONE 3 = 105 x 25% = 26 CFM F-1 AND F-2 INTAKES SHALL BE BALANCED TO 100 CFM F-3 INTAKE SHALL BE BALANCED TO 50 CFM SINCE PROVIDED AIR EXCEEDS THAT REQUIRED, HOURLY RUNTIME CAN BE REDUCED; VENTILATION HOURLY RUN TIME ZONE 1 (F-1) = 44 CFM / 100 CFM X 60 MINUTES = 26 MINUTES ZONE 2 (F-2) = 35 CFM / 100 CFM X 60 MINUTES = 21 MINUTES ZONE 3 (F-3) = 36 CFM / 50 CFM X 60 MINUTES = 31 MINUTES					

COMBUSTION AIR CALC MECH ROOM 1
GARAGE VOLUME 789 FT. SQ. X 9 FT. = 7,101 CU. FT. TOTAL GAS MBH FC-1 100 MBH WH 100 MBH (ALLOWANCE) TOTAL 200 MBH VOLUME PER MBH 7,101 CU. FT. / 200 MBH = 35 FT. CU./MBH VOLUME PER MBH IS LESS THAN 50 FT. CU./MBH COMBUSTION AIR MUST BE PROVIDED INTO GARAGE ----- TOTAL GAS MBH FC-1 100 MBH WH 100 MBH (ALLOWANCE) TOTAL 200 MBH FOR HORIZONTAL OPENINGS FROM ADJACENT SPACE IN PROVIDE 1 SQUARE INCH PER 1000 MBH. (MIN. 100 SQUARE INCHES) 200,000/ 1000 = 200 SQUARE INCHES 200 SQ. IN. / 144 = 1.39 SQ. FT. FREE AREA PROVIDE 2 OPENINGS, ONE 12" ABOVE FLOOR AND THE OTHER 12" BELOW CEILING EACH WITH A MINIMUM 1.39 SQ. FT. FREE AREA OPENING. OPENINGS MAY BE SPLIT BETWEEN THE 2 DOORS.

COMBUSTION AIR CALC GARAGE 1
F-1 100 MBH F-3 100 MBH (ALLOWANCE) TOTAL 200 MBH FOR HORIZONTAL OPENINGS DIRECTLY TO THE OUTDOORS PROVIDE 1 SQUARE INCH PER 4000 MBH. 200,000/ 4000 = 50 SQUARE INCHES 50 SQ. IN. / 144 = 0.35 SQ. FT. FREE AREA PROVIDE 2 OPENINGS, ONE 12" ABOVE FLOOR AND THE OTHER 12" BELOW CEILING EACH WITH A MINIMUM 0.35 SQ. FT. FREE AREA OPENING.

Residential Requirements
1. Exterior wall penetrations by pipes, ducts or conduits shall be caulked. (R307.6)
2. Energy compliance shall be demonstrated by a passing REScheck energy compliance score. (N1101.2).
3. Supply and return ducts shall be insulated to a minimum R-8. Ducts in floor trusses shall be insulated to minimum R-6. (N1103.2.1).
4. Registers, diffusers and grilles shall be mechanically fastened to rigid supports or structural members on at least two opposite sides in addition to being connected to the ductwork they serve.
5. Dryer exhaust ducts shall conform to the requirements of Sections (M1502.4.5 amended), M1502.4.1 thru M1502.4.6.
6. Exhaust air from kitchens, bathrooms and toilet rooms shall not be re-circulated within a residence or to another dwelling unit, shall not discharge into an attic and/or crawl space and shall be exhausted directly to the outdoors. (M1507.2).
7. Provide outside combustion air to all indoor fireplaces, with air intake located not higher than the firebox. (R1006.2).
8. At least one thermostat shall be provided for each separate heating and cooling system. (N1103.1).
9. The building shall be provided with ventilation that meets the requirements of Section M1507 or with other approved means of ventilation. Outdoor air intakes and exhausts shall have automatic or gravity dampers that close when the ventilation system is not operating. (N1103.5).
10. The building or dwelling unit shall be tested and verified as having an air leakage rate of not exceeding 5 air changes per hour. Testing shall be conducted with a blower door at a pressure of 0.2 inches w.g. (50 Pascals). Testing shall be conducted by an approved third party. A written report of the results of the test shall be signed by the party conducting the test and provided to the building official. Testing shall be performed at any time after creation of all penetrations of the building thermal envelope. (N1102.4.1.2).
11. Ducts, air handlers, and filter boxes shall be sealed. Joints and seams shall comply with Section M1601.4.1, (N1103.2.2). Duct tightness shall be verified by either of the following: 1. Post-construction test: Total leakage shall be less than or equal to 4 cfm (113.3 L/min) per 100 square feet (9.29 m2) of conditioned floor area when tested at a pressure differential of 0.1 inches w.g. (25 Pa) across the entire system, including the manufacturer's air handler enclosure. All register boots shall be taped or otherwise sealed during the test. 2. Rough-in test: Total leakage shall be less than or equal to 4 cfm (113.3 L/min) per 100 f12 (9.29 m2) of conditioned floor area when tested at a pressure differential of 0.1 inches w.g. (25 Pa) across the system, including the manufacturer's air handler enclosure. All registers shall be taped or otherwise sealed during the test. If the air handler is not installed at the time of the test, total leakage shall be less than or equal to 3 cfm (85 L/min) per 100 square feet (9.29 m2) of conditioned floor area.

COMBUSTION AIR CALC MECH ROOM 2
GARAGE VOLUME 593 FT. SQ. X 9 FT. = 5,337 CU. FT. TOTAL GAS MBH FC-2 80 MBH FC-3 60 MBH WH 100 MBH (ALLOWANCE) TOTAL 240 MBH VOLUME PER MBH 5,337 CU. FT. / 240 MBH = 22 FT. CU./MBH VOLUME PER MBH IS LESS THAN 50 FT. CU./MBH COMBUSTION AIR MUST BE PROVIDED INTO GARAGE ----- TOTAL GAS MBH FC-2 80 MBH FC-3 60 MBH WH 100 MBH (ALLOWANCE) TOTAL 240 MBH FOR HORIZONTAL OPENINGS FROM ADJACENT SPACE IN PROVIDE 1 SQUARE INCH PER 1000 MBH. (MIN. 100 SQUARE INCHES) 240,000/ 1000 = 240 SQUARE INCHES 240 SQ. IN. / 144 = 1.67 SQ. FT. FREE AREA PROVIDE 2 OPENINGS, ONE 12" ABOVE FLOOR AND THE OTHER 12" BELOW CEILING EACH WITH A MINIMUM 1.67 SQ. FT. FREE AREA OPENING. OPENINGS MAY BE SPLIT BETWEEN THE 2 DOORS.

COMBUSTION AIR CALC GARAGE 2
F-2 80 MBH F-3 60 MBH WH 100 MBH (ALLOWANCE) TOTAL 240 MBH FOR HORIZONTAL OPENINGS DIRECTLY TO THE OUTDOORS PROVIDE 1 SQUARE INCH PER 4000 MBH. 240,000/ 4000 = 60 SQUARE INCHES 60 SQ. IN. / 144 = 0.42 SQ. FT. FREE AREA PROVIDE 2 OPENINGS, ONE 12" ABOVE FLOOR AND THE OTHER 12" BELOW CEILING EACH WITH A MINIMUM 0.42 SQ. FT. FREE AREA OPENING.

MECHANICAL SHEET INDEX

M.0	MECHANICAL DESIGN CRITERIA AND CODE COMPLIANCE
M1.1	PARTIAL MECHANICAL FLOOR PLAN
M1.2	PARTIAL MECHANICAL FLOOR PLAN
M2.1	MECHANICAL SCHEDULES
M3.1	MECHANICAL DETAILS

MECHANICAL
DESIGN CRITERIA

IMPORTANT NOTICE

MECHANICAL SYSTEMS SPECIFIED ON THESE DRAWINGS HAVE BEEN SIZED AND DESIGNED BASED ON A SPECIFIC DESIGN CRITERIA TO MEET THE ENERGY CONSERVATION REQUIREMENTS OF THE 2012 INTERNATIONAL RESIDENTIAL CODE.

INSULATION AND/OR WINDOW VALUES DIFFERENT FROM THOSE SHOWN BELOW MAY IMPACT THE SIZING OF THE MECHANICAL SYSTEMS WHICH SHOULD BE CONSIDERED AND EVALUATED BEFORE IMPLEMENTATION.

SUMMER OUTDOOR TEMP	96°F	
SUMMER INDOOR TEMP	75°F	
WINTER OUTDOOR TEMP	20°F	
WINTER INDOOR TEMP	70°F	
ROOF INSULATION	R-38	
WALL INSULATION	R-19	
WINDOWS	U-VALUE	SHGC
TYPE 1	0.30	0.30

MECHANICAL SYMBOLS
AND ABBREVIATIONS

SYMBLE	DESCRIPTION	SYMBLE	DESCRIPTION
	SUPPLY AIR DUCT		CEILING EXHAUST FAN W/ DUCT UP THROUGH ROOF
	RETURN AIR DUCT		REFRIGERANT PIPING UP IN WALL
	CEILING SUPPLY DIFFUSER		THERMOSTAT
	3-WAY THROW CEILING DIFFUSER	CD	CEILING DIFFUSER
	CEILING RETURN GRILLE	CU	CONDENSING UNIT
	SIDEWALL SUPPLY GRILLE	EF	EXHAUST FAN
	SUPPLY AIR DUCT UP	F	FURNACE
	SUPPLY AIR DUCT DOWN	RG	RETURN GRILLE
	RETURN AIR DUCT UP		
	RETURN AIR DUCT DOWN		



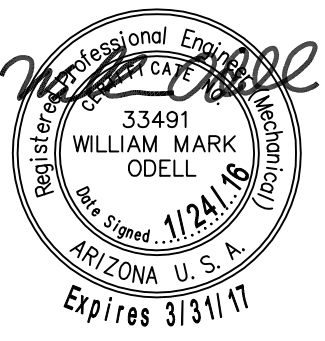
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ARCHITECTURE & PLANNING

DRAWING: MECHANICAL COMPLIANCE

PROJECT: Lemble-Mellul Residence

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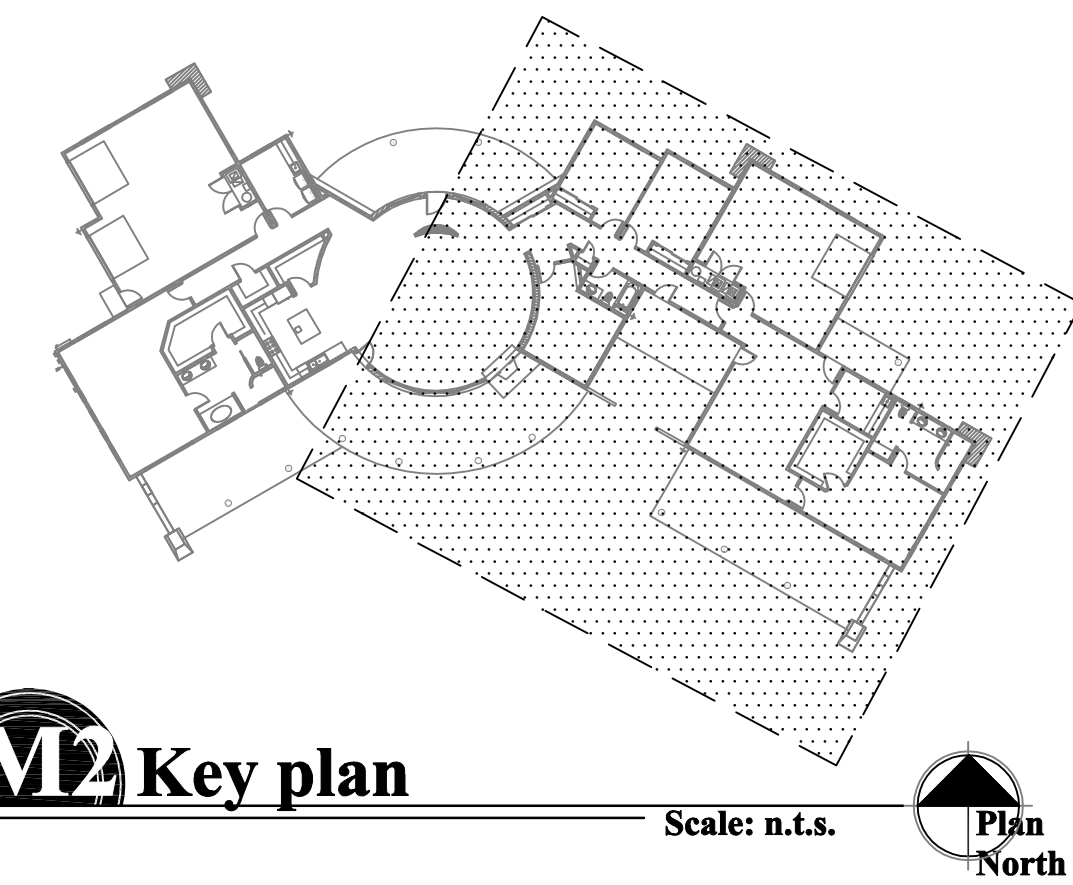
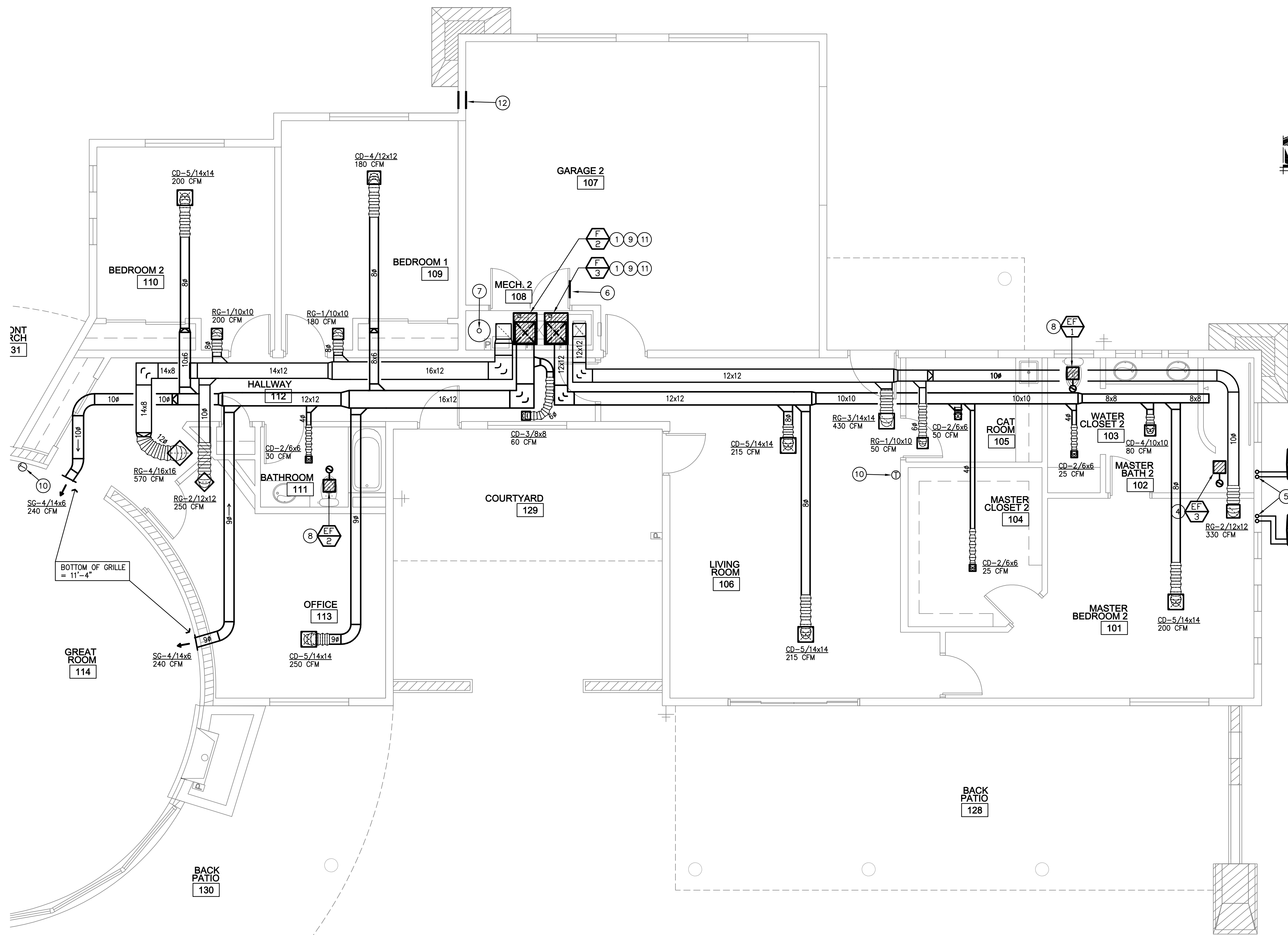
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- KEYNOTES**
- VERTICAL PROPANE, FURNACE ON 18" HIGH RETURN AIR PLENUM. ROUTE RETURN DUCT UP FROM PLENUM AND TO ATTIC AND ROUTE AS INDICATED. PLENUM SHALL BE CONSTRUCTED AIR TIGHT TO AVOID LEAKAGE. FINAL LOCATION OF FURNACE SHALL BE COORDINATED WITH ARCHITECT AND STRUCTURAL ENGINEER. PROVIDE CLEARANCES AROUND FURNACE PER MANUFACTURER'S RECOMMENDATIONS.
 - PVC VENT PIPING UP TO MANUFACTURER'S ROOF TERMINATION. OFFSET IN MECHANICAL ROOM AS NECESSARY TO ROUTE THROUGH ROOF. SIZE AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS. REFER TO SCHEDULE FOR UNITS THAT ARE SEALED COMBUSTION.
 - OUTDOOR CONDENSING UNIT ON 4" CONCRETE PAD. PAD SHALL BE A MINIMUM OF 4" LARGER ON ALL SIDES OF UNIT. DO NOT PLACE CONDENSING UNIT UNDER ROOF DRIP EDGE OR VALLEYS. COORDINATE FINAL LOCATION WITH ARCHITECT. PROVIDE CLEARANCES PER MANUFACTURER'S RECOMMENDATIONS.
 - CEILING MOUNTED EXHAUST FAN/HEAT LAMP COMBO. FAN SHALL HAVE INDEPENDENT WALL SWITCHES FOR FAN AND EXHAUST. ROUTE EXHAUST DUCT UP THROUGH ROOF TO MANUFACTURER'S ROOF DISCHARGE CAP.
 - ROUTE REFRIGERANT PIPING IN WALLS, ATTIC OR UNDERGROUND AS NECESSARY FROM CONDENSING UNIT TO CORRESPONDING FURNACE COIL. SIZE, INSULATED AND INSTALL PIPING PER MANUFACTURER'S RECOMMENDATIONS. FOLLOW MANUFACTURER'S PIPING GUIDE FOR ANY PIPING LENGTHS OVER 50 FEET. INSULATE REFRIGERANT PIPING PER SPECIFICATIONS.
 - (2) 20x20 COMBUSTION AIR OPENINGS, ONE SHALL BE WITHIN 12" OF THE MECH ROOM CEILING, AND ONE SHALL BE WITHIN 12" OF THE MECH ROOM FLOOR. PROVIDE 20x20 COMBUSTION AIR GRILLES (CAG-1) OVER EACH SIDE OF BOTH OPENINGS. GRILLES SHALL HAVE A MINIMUM 1.67 SF FREE AREA.
 - EXTEND TYPE "B" VENT UP TO LISTED ROOF CAP. VERIFY SIZE WITH PLUMBING CONTRACTOR.
 - CEILING MOUNTED EXHAUST FAN WITH BACK DRAFT DAMPER. FAN SHALL HAVE INDEPENDENT WALL SWITCH. ROUTE EXHAUST DUCT UP THROUGH ROOF TO MANUFACTURER'S ROOF DISCHARGE CAP.
 - EXTEND FULL SIZE CONDENSATE DRAIN PIPING FROM UNIT DRAIN CONNECTION. SLOPE PIPING AT 1/8" PER FOOT MINIMUM AND ROUTE TO EXTERIOR.
 - PROGRAMMABLE THERMOSTAT MOUNTED 54" ABOVE FLOOR. VERIFY FINAL LOCATION WITH ARCHITECT.
 - "ZONEX SYSTEMS" INTELLIGENT FRESH AIR VENTILATION DAMPER AND CONTROLLER. BALANCE DAMPER FOR 100 CFM AND ADJUST RUNTIME MINUTES PER HOUR PER AS SHOWN ON THE VENTILATION CALCULATION ON SHEET M2.1. SYSTEM SHALL INCLUDE OUTDOOR AIR SENSOR AND BE CAPABLE OF LOOKING OUT FRESH AIR VENTILATION WHEN AMBIENT TEMPERATURE IS ABOVE 100°F. SYSTEM SHALL TRACK "LOOKED OUT" TIME AND INCREASE RUN TIME AS NEEDED WHEN OUTDOOR AIR TEMPS DROP BELOW 100°F.
 - (2) 14x8 COMBUSTION AIR OPENINGS, ONE SHALL BE WITHIN 12" OF THE GARAGE CEILING, AND ONE SHALL BE WITHIN 12" OF THE GARAGE FLOOR. PROVIDE 14x8 COMBUSTION AIR GRILLES (CAG-1) OVER EACH SIDE OF BOTH OPENINGS. GRILLES SHALL HAVE A MINIMUM 0.42 SF FREE AREA.

M1 Dimension Floor Plan - East Wing

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



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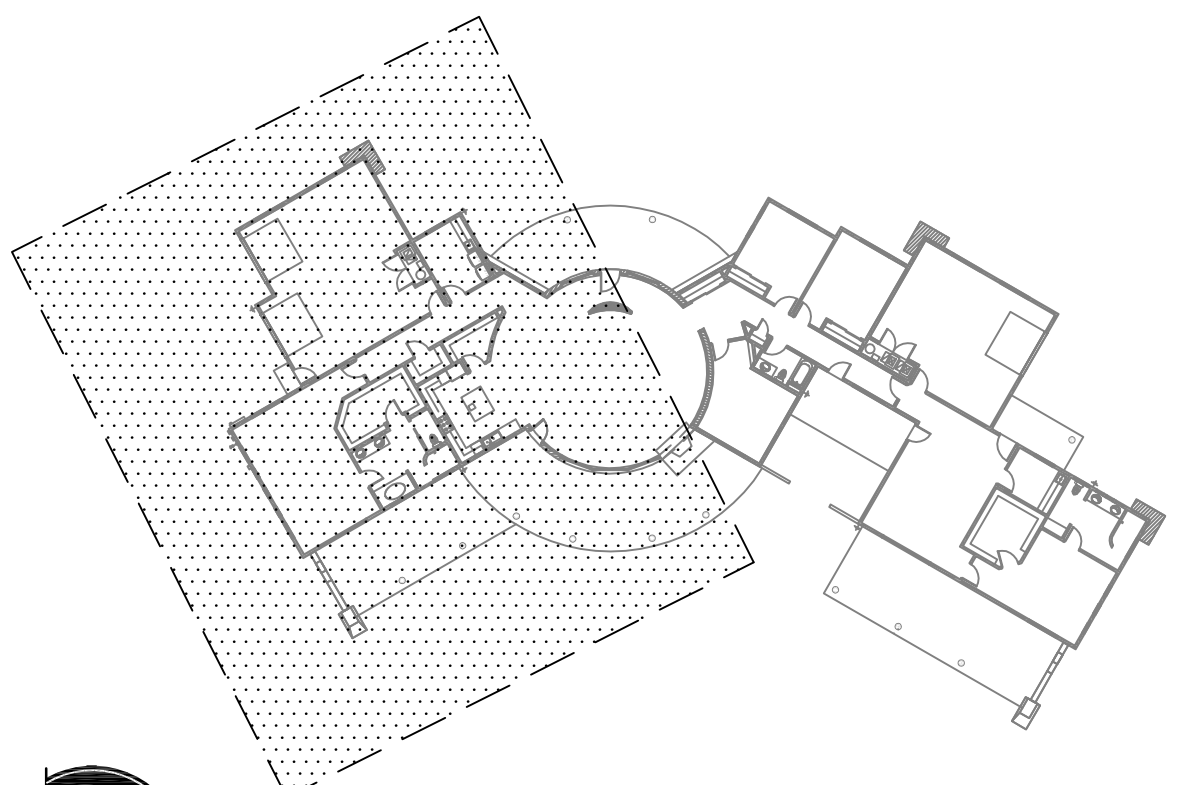
ARCHITECTURE & PLANNING

DRAWING: PARTIAL
MECHANICAL FLOOR PLAN

PROJECT: Lembke-Mellul Residence

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M1.1



M2 Key plan

Scale: n.t.s.

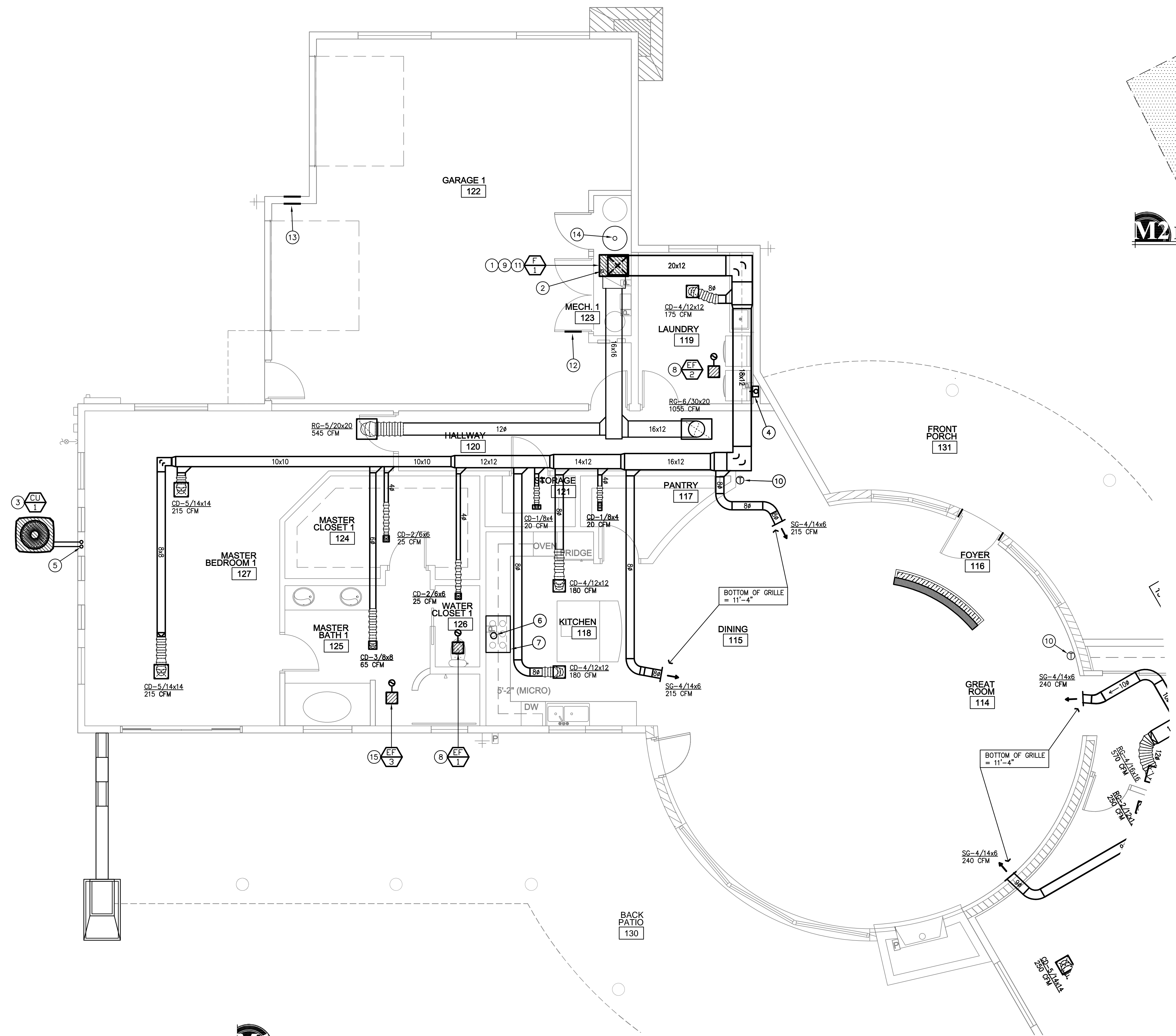


KEYNOTES

- VERTICAL PROPANE, FURNACE ON 18" HIGH RETURN AIR PLENUM. ROUTE RETURN DUCT UP FROM PLENUM AND TO ATTIC AND ROUTE AS INDICATED. PLENUM SHALL BE CONSTRUCTED AIR TIGHT TO AVOID LEAKAGE. FINAL LOCATION OF FURNACE SHALL BE COORDINATED WITH ARCHITECT AND STRUCTURAL ENGINEER. PROVIDE CLEARANCES AROUND FURNACE PER MANUFACTURER'S RECOMMENDATIONS.
- PVC VENT PIPING UP TO MANUFACTURER'S ROOF TERMINATION. OFFSET IN MECHANICAL ROOM AS NECESSARY TO ROUTE THROUGH ROOF, SIZE AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS. REFER TO SCHEDULE FOR UNITS THAT ARE SEALED COMBUSTION.
- OUTDOOR CONDENSING UNIT ON 4" CONCRETE PAD. PAD SHALL BE A MINIMUM OF 4" LARGER ON ALL SIDES OF UNIT. DO NOT PLACE CONDENSING UNIT UNDER ROOF DRIP EDGE OR VALLEYS. COORDINATE FINAL LOCATION WITH ARCHITECT. PROVIDE CLEARANCES PER MANUFACTURER'S RECOMMENDATIONS.
- 4" RIGID DRYER DUCT WITH RECESSED DRYER BOX RECEPTACLE. INSTALL PER CODE TO ROOF DISCHARGE. MAXIMUM LENGTH SHALL NOT EXCEED 25 FEET (EXCEPT AS ALLOWED BY DRYER MANUFACTURER'S INSTALLATION INSTRUCTIONS). EXHAUST DUCT SHALL BE SECURED TO FRAMING MEMBERS WITH STRAPS AND NOT CONNECTED OR SECURED USING SCREWS OR OTHER FASTENING MEANS WHICH EXTEND INTO DUCT. PROVIDE DRYER DISCHARGE CAP, WITH BACKDRAFT DAMPER. DRYER BOX INSTALLATION SHALL MAINTAIN WALL FIRE RATING.
- ROUTE REFRIGERANT PIPING IN WALLS, ATTIC OR UNDERGROUND AS NECESSARY FROM CONDENSING UNIT TO CORRESPONDING FURNACE COIL. SIZE, INSULATED AND INSTALL PIPING PER MANUFACTURER'S RECOMMENDATIONS. FOLLOW MANUFACTURER'S PIPING GUIDE FOR ANY PIPING LENGTHS OVER 50 FEET. INSULATE REFRIGERANT PIPING PER SPECIFICATIONS.
- 6" GALVANIZED STEEL EXHAUST DUCT UP FROM 36" RANGE HOOD. ROUTE AS INDICATED AND UP TO HIGH CAPACITY ROOF DISCHARGE CAP. HOOD SHALL EXHAUST 300-400 CFM, BUT SHALL NOT EXCEED 400 CFM.
- KITCHEN HOOD SHALL BE SPECIFIED BY ARCHITECT AND INSTALLED BY OTHERS. DUCT SIZE SHALL BE DESIGNED BY INSTALLING CONTRACTOR AS COORDINATED WITH KITCHEN RANGE HOOD SELECTED BY ARCHITECT.
- CEILING MOUNTED EXHAUST FAN WITH BACK DRAFT DAMPER. FAN SHALL HAVE INDEPENDENT WALL SWITCH. ROUTE EXHAUST DUCT UP THROUGH ROOF TO MANUFACTURER'S ROOF DISCHARGE CAP.
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- (2) 12x8 COMBUSTION AIR OPENINGS, ONE SHALL BE WITHIN 12" OF THE GARAGE CEILING, AND ONE SHALL BE WITHIN 12" OF THE GARAGE FLOOR. PROVIDE 12x8 COMBUSTION AIR GRILLES (CAG-1) OVER EACH SIDE OF BOTH OPENINGS. GRILLES SHALL HAVE A MINIMUM 0.35 SF FREE AREA.
- EXTEND TYPE "B" VENT UP TO LISTED ROOF CAP. VERIFY SIZE WITH PLUMBING CONTRACTOR.
- CEILING MOUNTED EXHAUST FAN/HEAT LAMP COMBO. FAN SHALL HAVE INDEPENDENT WALL SWITCHES FOR LAMP AND EXHAUST. ROUTE EXHAUST DUCT UP THROUGH ROOF TO MANUFACTURER'S ROOF DISCHARGE CAP.



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M1 Dimension Floor Plan - West Wing

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



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ARCHITECTURE & PLANNING

DRAWING: PARTIAL MECHANICAL FLOOR PLAN

PROJECT: Lembke-Mellul Residence

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JOB NO. 674
SHEET

M1.2

MECHANICAL SPECIFICATIONS

DRAWINGS AND DATA

DRAWINGS ARE GENERALLY DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE OF WORK AND TO INDICATE GENERAL ARRANGEMENT OF EQUIPMENT. THEY ARE NOT INTENDED TO SHOW EVERY OFFSET OR FITTINGS OR EVERY STRUCTURAL DIFFICULTY THAT MAY BE ENCOUNTERED DURING INSTALLATION OF THE WORK. LOCATION OF ALL ITEMS NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE ONLY. EXACT LOCATIONS NECESSARY TO SECURE BEST CONDITIONS AND RESULTS MUST BE DETERMINED AT PROJECT AND SHALL HAVE APPROVAL OF ARCHITECT BEFORE BEING INSTALLED. DO NOT SCALE DRAWINGS. IF SO DIRECTED BY ARCHITECT, WITHOUT EXTRA CHARGE, MAKE REASONABLE MODIFICATIONS IN LAYOUT AS NEEDED TO PREVENT CONFLICT WITH WORK OF OTHER TRADES OR FOR PROPER EXECUTION OF WORK. INCLUDE MINOR DETAILS NOT USUALLY SHOWN OR SPECIFIED, BUT NECESSARY FOR PROPER INSTALLATION AND OPERATION OF A SYSTEM OR PIECE OF EQUIPMENT.

CODES

INCLUDE IN WORK, WITHOUT EXTRA COST TO OWNER, LABOR, MATERIALS, SERVICES, APPARATUS, DRAWINGS (IN ADDITION TO CONTRACT DRAWINGS AND DOCUMENTS) REQUIRED TO COMPLY WITH APPLICABLE LAWS, ORDINANCES, RULES AND REGULATIONS. DRAWINGS AND SPECIFICATIONS TAKE PRECEDENCE WHEN THEY ARE MORE STRINGENT THAN CODES, ORDINANCES, STANDARDS AND STATUTES. CODES, ORDINANCES, STANDARDS AND STATUES TAKE PRECEDENCE WHEN THEY ARE MORE STRINGENT OR CONFLICT WITH DRAWINGS OR SPECIFICATIONS. FOLLOWING INDUSTRY STANDARDS, SPECIFICATIONS AND CODES ARE MINIMUM REQUIREMENTS:

- A. APPLICABLE CITY, COUNTY, AND STATE MECHANICAL, ELECTRICAL, GAS, PLUMBING, HEALTH AND SANITARY CODES, LAWS AND ORDINANCES.
- B. UNDERWRITER'S LABORATORIES, INC. STANDARDS.
- C. 2012 INTERNATIONAL RESIDENTIAL CODE WITH LOCAL AMENDMENTS.
- D. 2012 INTERNATIONAL PLUMBING CODE WITH STATE AMENDMENTS.
- E. 2012 INTERNATIONAL MECHANICAL CODE WITH STATE AMENDMENTS.
- F. 2011 NEC
- G. 2012 INTERNATIONAL FUEL GAS CODE WITH STATE AMENDMENTS.

GENERAL

THE WORK INCLUDED UNDER THIS SECTION CONSISTS OF FURNISHING ALL LABOR, MATERIALS, AND EQUIPMENT TO PROVIDE A COMPLETE FUNCTIONING HVAC SYSTEM AS SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN. THE SYSTEM SHALL INCLUDE REQUIRED UNITS, THERMOSTATS, DUCTWORK, FANS, CONDENSATE DRAINS, REFRIGERANT PIPING, INSULATION, CLEAN FILTERS, FLUES AND ALL APPURTENANCES AS REQUIRED. WHERE MORE THAN ONE UNIT IS REQUIRED OF ANY ITEM, FURNISHED BY THE SAME MANUFACTURER, EXCEPT WHERE SPECIFIED OTHERWISE. INSTALL MATERIAL AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

INSTRUCT THE OWNER AS TO PROPER OPERATION AND CARE OF THE EQUIPMENT AFTER START-UP AND CHECK-OUT. PROVIDE THE OWNER WITH ALL WARRANTY AND OPERATING INSTRUCTIONS AT THE COMPLETION OF THE PROJECT.

GUARANTEE

EACH COMPLETE SYSTEM GUARANTEED BY CONTRACTOR FOR A PERIOD OF ONE YEAR, FROM DATE OF ACCEPTANCE OF WORK BY OWNER IN WRITING, TO BE FREE OF DEFECTS OF MATERIALS AND WORKMANSHIP, AND TO PERFORM SATISFACTORILY UNDER ALL CONDITIONS OF LOAD OR SERVICE. THE GUARANTEES PROVIDE THAT ANY ADDITIONAL CONTROLS, PROTECTIVE DEVICES, OR EQUIPMENT BE PROVIDED AS NECESSARY TO MAKE THE SYSTEM OF EQUIPMENT OPERATE SATISFACTORILY, AND THAT ANY FAULTY MATERIALS OR WORKMANSHIP BE REPLACED OR REPAIRED. LOSS OF REFRIGERANT IS CONSIDERED A DEFECT IN WORKMANSHIP AND/OR EQUIPMENT, TO BE CORRECTED AS REQUIRED AT NO EXTRA COST TO THE OWNER.

REGULATIONS, PERMITS & INSPECTIONS

COMPLY WITH ALL APPLICABLE CODES, RULES AND REGULATIONS. ALL MATERIALS, EQUIPMENT AND WORK MUST CONFORM TO THE INTERNATIONAL RESIDENTIAL CODE. OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND LICENSES. WHEN REQUIRED BY CODE, ALL WORK MUST BE INSPECTED AND APPROVED BY LOCAL AUTHORITIES.

DUCTWORK

ALL DUCTWORK TO BE GALVANIZED LOCK FORMING SHEET METAL. SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS. CONSTRUCT ALL DUCTWORK AND FITTINGS TO PROVIDE MINIMUM RESISTANCE AND NOISE LEVELS. DUCTWORK SHALL BE FABRICATED AND INSTALLED BY SKILLED MECHANICS IN A WORKMANLIKE MANNER USING THE LATEST EDITION OF THE "SMACNA" MANUAL AS A GUIDELINE. SEAL ALL SUPPLY AIR DUCTWORK AND RETURN AIR PLATFORMS/PLENUMS AIRTIGHT WITH APPROVED DUCT SEALER. TURNING VANES SHALL BE INSTALLED IN ALL MITERED ELBOWS.

UPON APPROVAL BY ARCHITECT, CONTRACTOR MAY USE FIBER GLASS DUCT BOARD FOR ABOVE GROUND SUPPLY AND RETURN DUCT SYSTEMS. FIBER GLASS DUCT BOARD SHALL BE OWENS CORNING "ENDURAGOLD", TYPE 800, 1-1/2" THICK. (OR APPROVED EQUAL)

FLEXIBLE DUCT

FLEXIBLE DUCT MAY BE USED FOR FINAL CONNECTION TO AIR DISTRIBUTION DEVICES, BUT SHALL NOT EXCEED 8 FEET IN LENGTH. FLEXIBLE DUCT SHALL HAVE A MINIMUM R-8 INSULATION VALUE.

DUCT INSULATION

DUCT SIZES ON DRAWINGS ARE "CLEAR INSIDE." INCREASE SHEET METAL SIZES ACCORDINGLY FOR LINED DUCTWORK. ADHESIVE AND INSULATING MATERIALS SHALL HAVE COMPOSITE FIRE AND SMOKE HAZARD RATINGS MAXIMUM 25 FOR FLAME SPREAD AND 50 FOR SMOKE DEVELOPED. ADHESIVES SHALL BE WATERPROOF.

DUCTS IN FLOOR TRUSSES OR OTHER CONDITIONED SPACE; LINED DUCTWORK - SEMI-RIGID GLASS FIBER INSULATION, 1 1/2 PCF, 1 1/2" THICK, THERMAL CONDUCTIVITY AT 75° MAXIMUM 0.17 BTU/IN./SQ. FT./DEG./HR. MINIMUM "R-VALUE" SHALL BE 6.0.

WRAPPED DUCTWORK - FIBER GLASS BLANKET WITH FRK VAPOR RETARDING FACING. 1 1/2 PCF, 2" THICK, WITH A MINIMUM INSTALLED "R-VALUE" OF 6.0. (ASSUMES 25% COMPRESSION)

DUCTS IN ATTICS OR OTHER UNCONDITIONED SPACE; LINED DUCTWORK - SEMI-RIGID GLASS FIBER INSULATION, 1 1/2 PCF, 2" THICK, THERMAL CONDUCTIVITY AT 75° MAXIMUM 0.13 BTU/IN./SQ. FT./DEG./HR. MINIMUM "R-VALUE" SHALL BE 8.0.

WRAPPED DUCTWORK - FIBER GLASS BLANKET WITH FRK VAPOR RETARDING FACING. 0.75 PCF, 3" THICK, WITH A MINIMUM INSTALLED "R-VALUE" OF 8.0. (ASSUMES 25% COMPRESSION)

GRILLES AND DIFFUSERS ACCEPTABLE MANUFACTURERS ARE TITUS, ANEMOSTAT, KRUEGER, CARNES, BARBERCOMAN, AGITAIR, E.A.P.C., METAL-AIR OR HART AND COOLEY. CONFIRM FINISHED AND COLOR WITH ARCHITECT. ALL GRILLES AND DIFFUSERS SHALL BE SUBMITTED TO ARCHITECT FOR FINAL APPROVAL.

EXHAUST FANS FURNISH AND INSTALL EXHAUST FANS AS REQUIRED BY ARCHITECTURAL DRAWINGS. PROVIDE FANS WITH FACTORY ROOF OR WALL CAPS AS SHOWN. PROVIDE ALL EXHAUST FANS WITH BACKDRAFT DAMPER. MAXIMUM NOISE RATING 4.0 SONES. ACCEPTABLE MANUFACTURERS ARE "BROOK", "NUTONE" OR "GREENHECK" OR AS APPROVED BY ARCHITECT.

CONDENSATE DRAIN LINES; CONDENSATE AND FURNACE DRAIN PIPING SHALL BE SCHEDULE 40 PVC. RUN DRAIN LINE FULL SIZE TO NEAREST PLANTER AREA, FLOOR DRAIN, OR P-TRAP. INSTALL TRAPS IN LINES AS REQUIRED BY EQUIPMENT MANUFACTURER. COORDINATE SPECIAL REQUIREMENTS FOR DRAIN AND WATER LINES THAT MAY BE REQUIRED WITH SPECIAL EQUIPMENT WITH PLUMBING CONTRACTOR PRIOR TO COMPLETION OF ROUGH-IN.

REFRIGERANT PIPING ABOVE GROUND, WITHIN BUILDING PIPING SHALL BE TYPE ACR DRAWN-TEMPER COPPER TUBE WITH WROUGHT COPPER UNIONS. PIPING BELOW GROUND SHALL BE TYPE L ANNEALED COPPER TUBING. EXPOSED SUCTION PIPING SHALL HAVE 1-1/2" INSULATION, CONCEALED SUCTION PIPING SHALL HAVE 1" INSULATION. INSULATION SHALL BE "ARMAFLEX" FLEXIBLE ELASOMERIC, OR EQUAL.

FURNACES AND CONDENSING UNITS AIR CONDITIONING EQUIPMENT SHALL BE AS SPECIFIED ON SCHEDULES UNLESS SPECIFICALLY ALLOWED BY OWNER OR ARCHITECT.

THERMOSTAT AND CONTROLS FURNISH AND INSTALL PROGRAMMABLE THERMOSTATS AS REQUIRED BY THE EQUIPMENT MANUFACTURER OR AS SPECIFIED ON THE EQUIPMENT SCHEDULES. FIELD VERIFY EXACT LOCATION AND MOUNTING HEIGHT FOR CONTROLS WITH ARCHITECT AND GENERAL CONTRACTOR.

VENTILATION BALANCING AT A MINIMUM CONTRACTOR SHALL PROVIDE BALANCING OF ALL FRESH AIR SYSTEMS TO ENSURE COMPLIANCE WITH IRC M1507 AND A COMFORT BALANCE ON THE AIR DISTRIBUTION SYSTEM THROUGHOUT THE RESIDENCE. CONTRACTOR SHALL PROVIDE BALANCING DAMPERS AND/OR OBD'S AS MAY BE REQUIRED.

ZONEX SYSTEMS INTELLIGENT FRESH AIR CONTROLLER IS A MICROPROCESSOR BASED CONTROLLER DESIGNED TO PROVIDE REQUIRED FRESH AIR BASED ON TIME, OUTSIDE AIR TEMPERATURE AND AIR REQUIREMENTS FOR 24 HOUR OPERATIONS, BASED ON ASHRAE 62.2 VENTILATION AND INDOOR AIR QUALITY STANDARDS.

INTELLIGENT FRESH AIR CONTROLLER ALLOWS THE INSTALLER TO CONFIGURE TIME FROM 5 TO 40 MINUTES OF OPERATION AT THE TIME POTENTIOMETER. THIS SETTING REPRESENTS THE AMOUNT OF TIME FAN AND DAMPER OUTPUTS WILL BE ENERGIZED EACH HOUR.

IN ADDITION TO PROVIDING FAN OPERATION TIME PER HOUR, THE INTELLIGENT FRESH AIR CONTROLLER ALSO MONITORS OUTSIDE AIR TEMPERATURES (OSA) AND WILL LOCKOUT OPERATIONS WHEN OUTSIDE AIR TEMPERATURES ARE TO HIGH OR LOW FOR SYSTEM EFFICIENCY. LOCKOUT HIGH AND LOW LIMITS ARE ADJUSTABLE ON CONTROLLER POTENTIOMETERS. HIGH LIMIT CAN BE

ADJUSTED FROM 85° TO 115° AND LOW LIMIT CAN BE ADJUSTED FROM 15° TO 45°. WHEN OSA LOCKOUT OCCURS, THE CONTROLLER WILL STORE LOCKOUT MINUTES AND USE THESE MINUTES WHEN OSA RETURNS TO NORMAL TEMPERATURE.

TO MEET ASHRAE 62.2 AND ENERGY STAR INDOOR AIR QUALITY STANDARDS, THE INTELLIGENT FRESH AIR CONTROLLER MONITORS AND STORES MINUTES OF RUN TIME LOCKED OUT DUE TO OSA CONDITIONS. LOGIC IN THE CONTROLLER USES STORED MINUTES AND CONTROLLER TIME SETTING TO CALCULATE NEEDED RUN TIME TO MEET STANDARD WITHIN THE REMAINING 24 HOUR TIME PERIOD. ONCE TIME REQUIREMENT IS DETERMINED BY THE CONTROLLER, BASED ON TIME SETTING AND STORED MINUTES, THE CONTROLLER WILL ENERGIZE FAN AND DAMPER OUTPUTS FOR REMAINDER OF 24 HOUR PERIOD TO MEET FRESH AIR REQUIREMENT.

FURNACE SCHEDULE

MARK	AREA SERVED	NOMINAL TONS	MFG'R	MODEL #	ENERGY STAR	CFM(4)	E.S.P. ("W.G.)	HEATING CAP. LOW FIRE		HEATING CAP. HIGH FIRE		FLUE SIZE	FUEL	A.F.U.E.	ELECTRICAL DATA		FILTER SIZE	FILTER TYPE	NOTES
								INPUT	OUTPUT	INPUT	OUTPUT				H.P.	V/Ø/Hz			
F-1	MASTER 1 KITCHEN, DINING	4	TRANE	"XV95" TUH2C100	YES	1600	0.50	65,000	61,750	100,000	95,000	3"	PROPANE	93.0%	3/4	120/1/60	20x25x1	HIGH VELOCITY	
F-2	GREAT ROOM OFFICE, BEDROOMS	3	TRANE	"XV95" TUH2B080	YES	1200	0.50	52,000	49,500	80,000	76,000	2"	PROPANE	92.5%	1/2	120/1/60	17x25x1	HIGH VELOCITY	①②③④⑤
F-3	MASTER 2 LIVING ROOM	2	TRANE	"XV95" TUH2B060	YES	800	0.50	39,000	37,700	60,000	58,000	2"	PROPANE	93.0%	1/2	120/1/60	17x25x1	HIGH VELOCITY	①②③④⑤

- ① INSTALL WITH CLEARANCES PER MANUFACTURER'S RECOMMENDATIONS.

② SIZE AND INSTALL 1 PIPE VENT PIPING PER MANUFACTURER'S INSTRUCTIONS FOR ACTUAL INSTALLED LENGTHS. PROVIDE ROOF TERMINATION PER MANUFACTURER.

③ PROVIDE WITH TRANE "PERFECT FIT" FILTER ENCLOSURE SUITABLE FOR UNIT SIZE AND ORIENTATION. FILTER ENCLOSURE SHALL ACCEPT 1" STANDARD, 5" HIGH EFFICIENCY AND ELECTRONIC FILTER CELLS. INSTALL WITH 5" HIGH EFFICIENCY PLEATED FILTER.
- ④ PROVIDE LEFT OR RIGHT CONNECTIONS AS REQUIRED FOR ACCESS IN MECHANICAL ROOMS.

⑤ REQUIRED VENTILATION - UNIT SHALL BE PROVIDED WITH "ZONEX SYSTEMS" INTELLIGENT FRESH AIR VENTILATOR. SEE DETAILS AND SPECIFICATIONS.

CONDENSING UNIT SCHEDULE (2 Stage Compressor)

MARK	NOMINAL TONS	MFG'R	MODEL #	1st stage Cooling		2nd stage Cooling		DESIGN COND. DBWB	INDOOR COIL MODEL #	COIL ENT. AIR DBWB	ELECTRICAL DATA		MINIMUM SEER	ENERGY STAR	REFRIGERANT	NOTES
				TOTAL	SENS.	TOTAL	SENS.				MCA	V / Ø				
CU-1	4	TRANE	(XL16i) 4TTX6048	20.5	20.5	44.1	36.1	95/63	SELECTED BY MFG.	78°/63°	29	208/230 1Ø	16	YES	R-410A	①②③④⑤⑥⑦
CU-2	3	TRANE	(XL16i) 4TTX6036	18.3	15.1	34.2	29.1	95/63	SELECTED BY MFG.	78°/63°	24	208/230 1Ø	16	YES	R-410A	①②③④⑤⑥⑦
CU-3	2	TRANE	(XL16i) 4TTX6024	11.5	11.5	21.9	18.1	95/63	SELECTED BY MFG.	78°/63°	13	208/230 1Ø	16	YES	R-410A	①②③④⑤⑥⑦

- ① INSTALL UNIT PER MANUFACTURER'S WRITTEN DIRECTIONS. SLEEVE PIPING PENETRATIONS THROUGH EXTERIOR WALL, SEAL WATERTIGHT AND PROVIDE ESCUTCHEONS.

② UNIT SHALL BE PROVIDED WITH "COMFORT LINK II" COLOR TOUCH SCREEN, PROGRAMMABLE THERMOSTAT

③ PROVIDE 10-YEAR COMPRESSOR WARRANTY AND 5-YEAR FOR OTHER COMPONENTS.
- ④ RUN ALL REFRIGERANT PIPING FULL SIZE PER MFG'RS. INSTRUCTIONS. FOLLOW LONG LENGTH PIPING GUIDELINES AS NECESSARY.

⑤ PROVIDE UNIT COMPLETE WITH DISCONNECTS, CONTROLS AND ACCESSORIES AS REQUIRED FOR A COMPLETE AND OPERATIONAL COMMUNICATING SYSTEM.

⑥ PROVIDE LOW AMBIENT CONTROL KIT FOR OPERATION DOWN TO 30°F.

FAN SCHEDULE

MARK	MOUNTING /LOCATION	MANUFACTURER	MODEL	CFM	E.S.P.	SONES @ 0.1"	MOTOR		BAROM. DAMPER	WIRE SCREEN	DRIVE	REMARKS
							AMPS, HP OR WATTS	V/PH				
EF-1	CEILING	NUTONE	QTXEN80	65	0.3"	0.3	0.4 A	120/1	YES	YES	DIRECT	①②③④
EF-2	CEILING	NUTONE	QTXEN150	125	0.3"	1.4	0.5 A	120/1	YES	YES	DIRECT	①②③④
EF-3	CEILING	NUTONE	9417DN	70	0.3"	1.4	300 WATTS	120/1	YES	YES	DIRECT	①②④⑤⑥

- ① PROVIDE UNIT WITH FACTORY SUPPLIED EXHAUST GRILLE.

② PROVIDE EXHAUST FAN WITH BACK DRAFT DAMPER.

③ EXHAUST FAN SHALL BE ENERGY STAR RATED.

④ UNIT SHALL BE CONTROLLED BY WALL SWITCH.
- ⑤ FAN/INFRARED BULB HEATER COMBO.

⑥ WATTS INCLUDES "BR40" INFRARED 250 WATT BULB.

GRILLES AND REGISTERS SCHEDULE

MARK	SIZE	DESCRIPTION	MFG.	MODEL NO.	FRAME TYPE	MAX. NC AT DESIGN CFM	DAMPER (OBD)	COLOR	MATERIAL	REMARKS
CD-1	8x4	CEILING REGISTER	HART & COOLEY	684	SURFACE	25	YES	WHITE	STEEL	4-WAY OR 3-WAY THROW
CD-2	6x6	CEILING REGISTER	HART & COOLEY	684	SURFACE	25	YES	WHITE	STEEL	4-WAY OR 3-WAY THROW
CD-3	8x8	CEILING REGISTER	HART & COOLEY	684	SURFACE	25	YES	WHITE	STEEL	4-WAY OR 3-WAY THROW
CD-4	12x12	CEILING REGISTER	HART & COOLEY	684	SURFACE	25	YES	WHITE	STEEL	4-WAY OR 3-WAY THROW
CD-5	14x14	CEILING REGISTER	HART & COOLEY	684	SURFACE	25	YES	WHITE	STEEL	4-WAY OR 3-WAY THROW
SG-1	14x6	SIDEWALL GRILLE	HART & COOLEY	821	SURFACE	25	NO	WHITE	ALUMINUM	DOUBLE DEFLECTION
RG-2	12x12	RETURN GRILLE	HART & COOLEY	672	SURFACE	25	NO	WHITE	ALUMINUM	
RG-3	14x14	RETURN GRILLE	HART & COOLEY	672	SURFACE	25	NO	WHITE	ALUMINUM	
RG-4	16x16	RETURN GRILLE	HART & COOLEY	672	SURFACE	25	NO	WHITE	ALUMINUM	
RG-5	20x20	RETURN GRILLE	HART & COOLEY	672	SURFACE	25	NO	WHITE	ALUMINUM	
RG-6	30x20	RETURN GRILLE	HART & COOLEY	672	SURFACE	25	NO	WHITE	ALUMINUM	

NOTES:

NECK SIZE SHOWN ON PLANS AND CORRESPONDS TO DUCT CONNECTION SIZE.

CONTRACTOR SHALL PROVIDE SQUARE TO ROUND ADAPTERS AS REQUIRED FOR INSTALLATION.

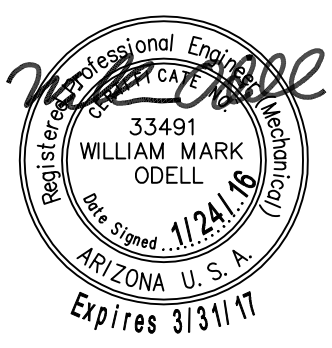
MOUNTING HEIGHT AND EXACT LOCATION TO BE DETERMINED BY THE ARCHITECT.

VERIFY COLOR OF ALL DEVICES WITH ARCHITECT.

GRILLES AND REGISTER FINAL SELECTION SHALL BE BY ARCHITECT. SCHEDULE PROVIDED TO INDICATE GENERAL PERFORMANCE REQUIREMENTS

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ARCHITECTURE & PLANNING

DRAWING: MECHANICAL SCHEDULES AND SPECS

PROJECT: Lemble-Mellul Residence

DRAWN BY

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DATE

SCALE AS NOTED

JOB NO. 674

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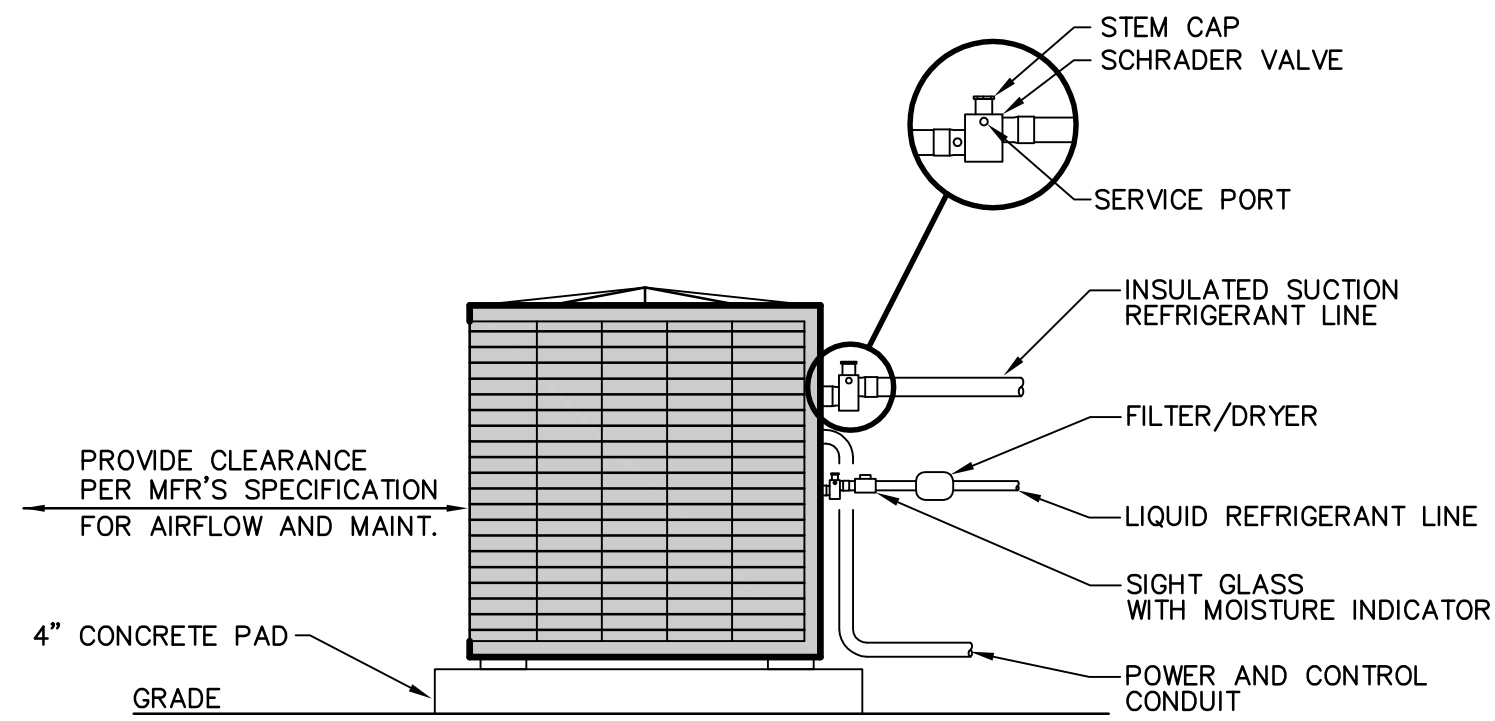
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(928) 443.7353

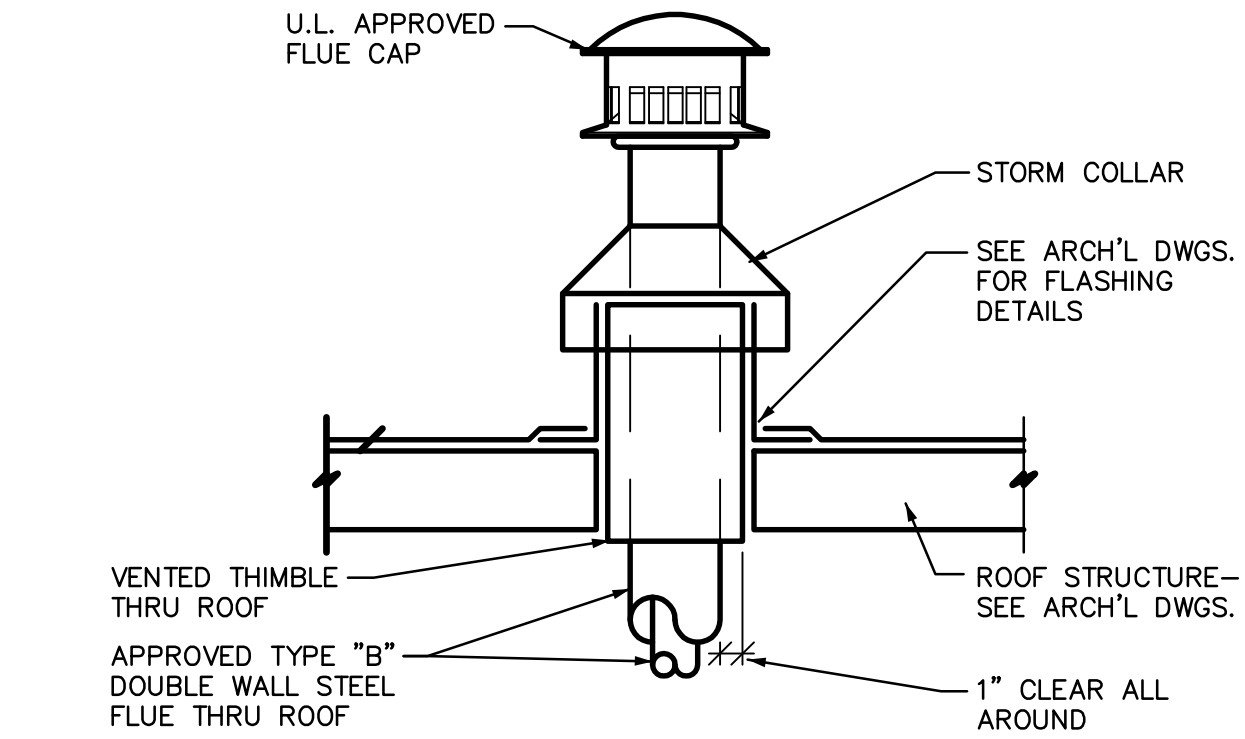
Project #15098

10922 N. 153rd Ln.
Surprise, AZ 85378
(623) 444-6143



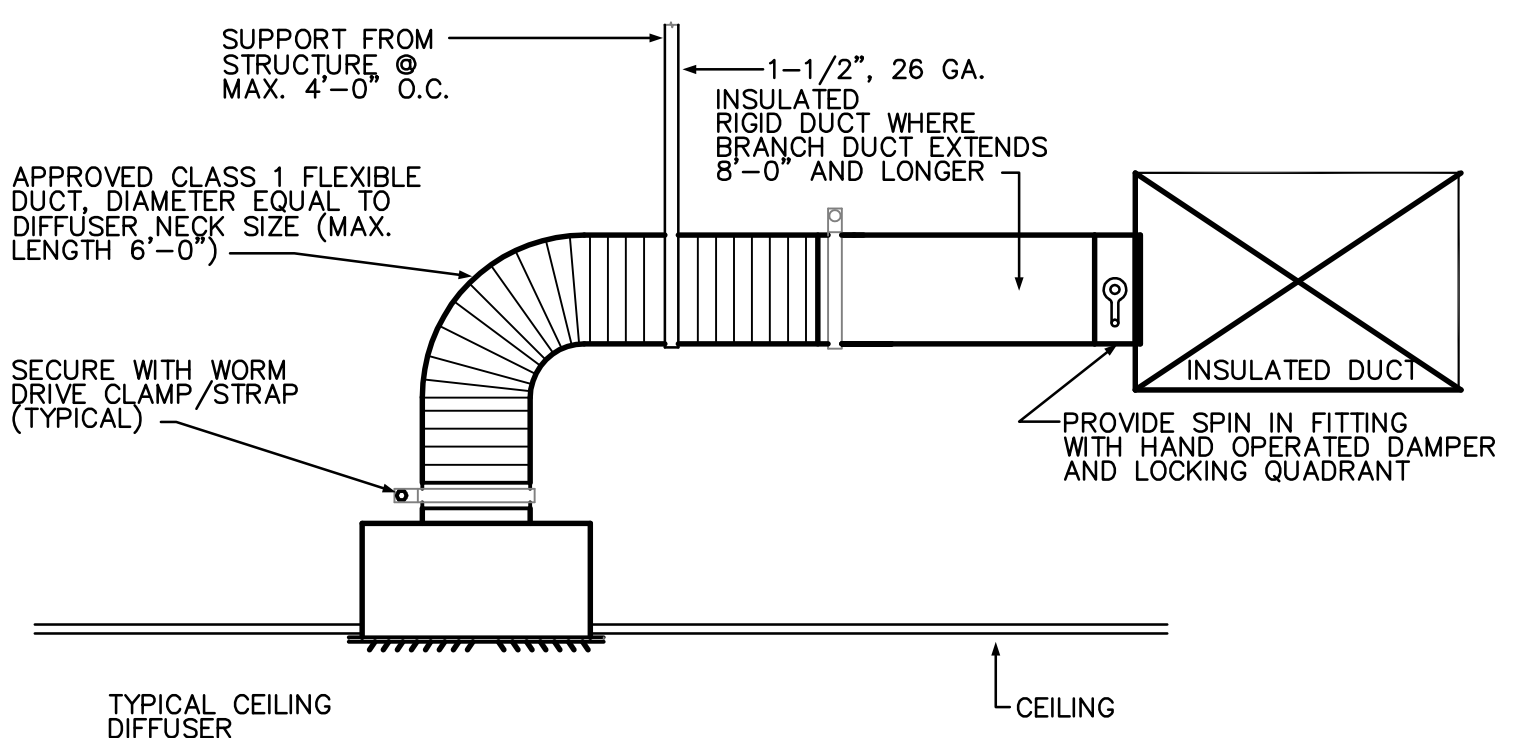
CONDENSING UNIT DETAIL

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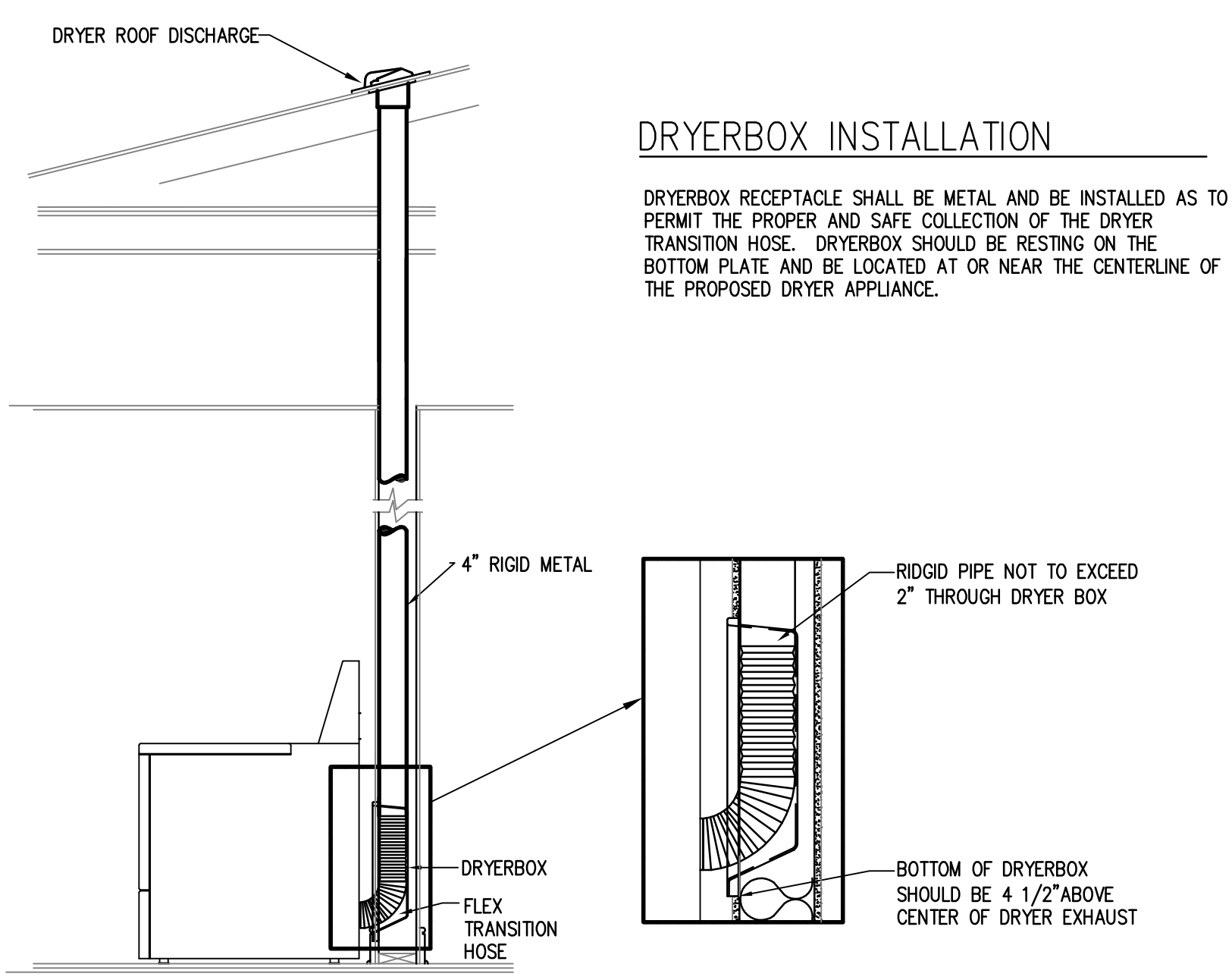
FLUE THRU ROOF DETAIL

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M3.1



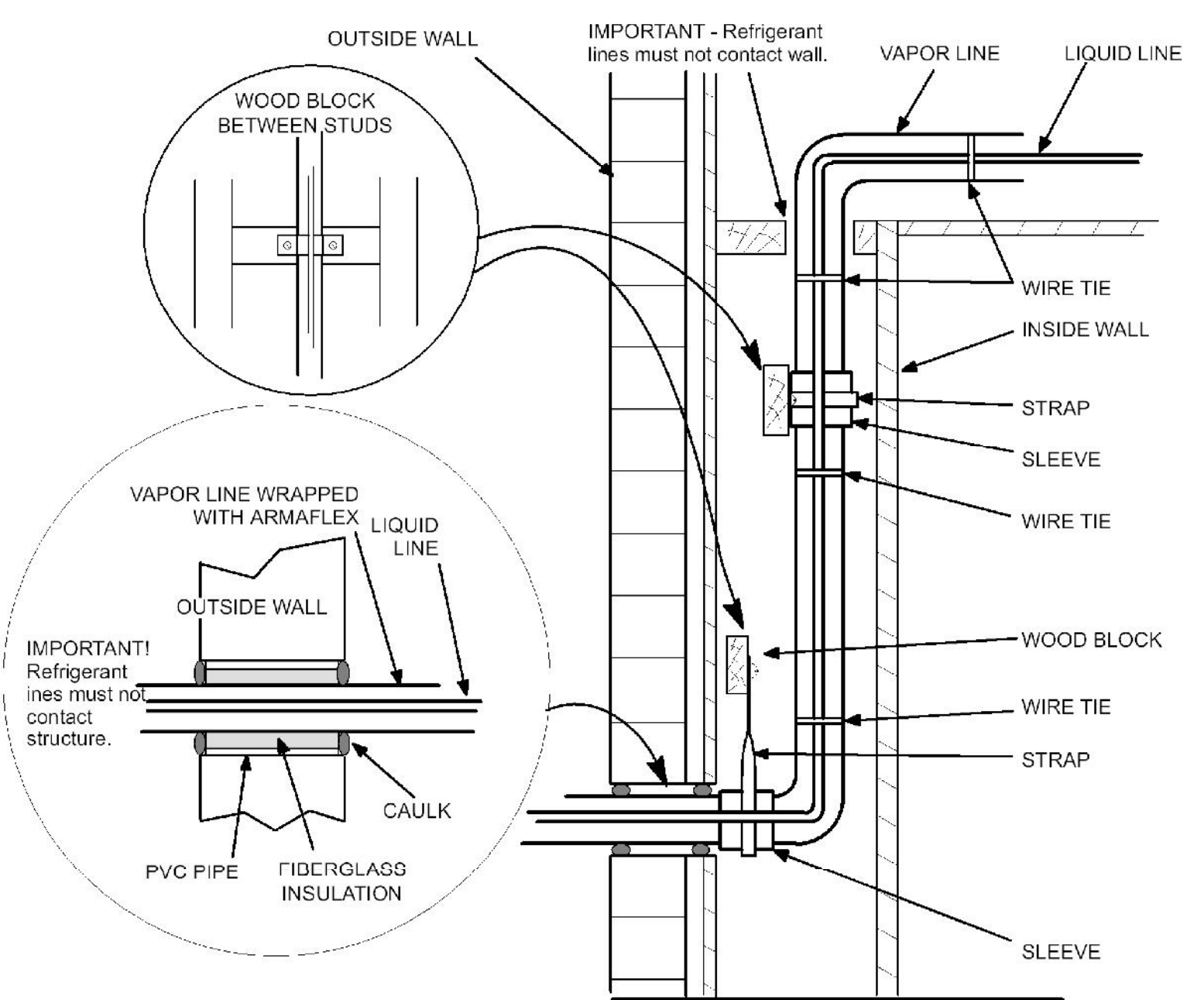
BRANCH DUCT DETAIL

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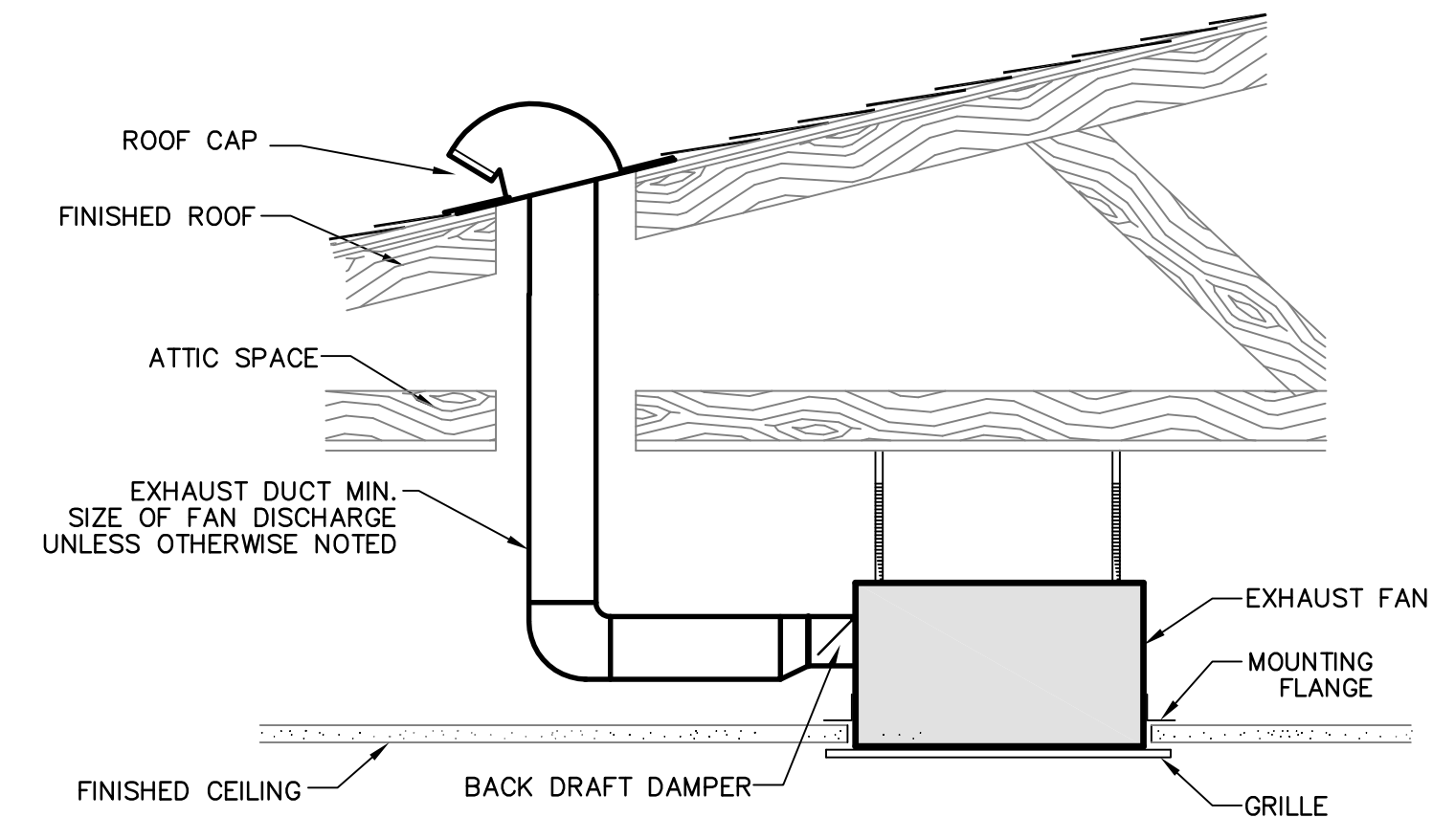
DRYER BOX DETAIL

3
M3.1



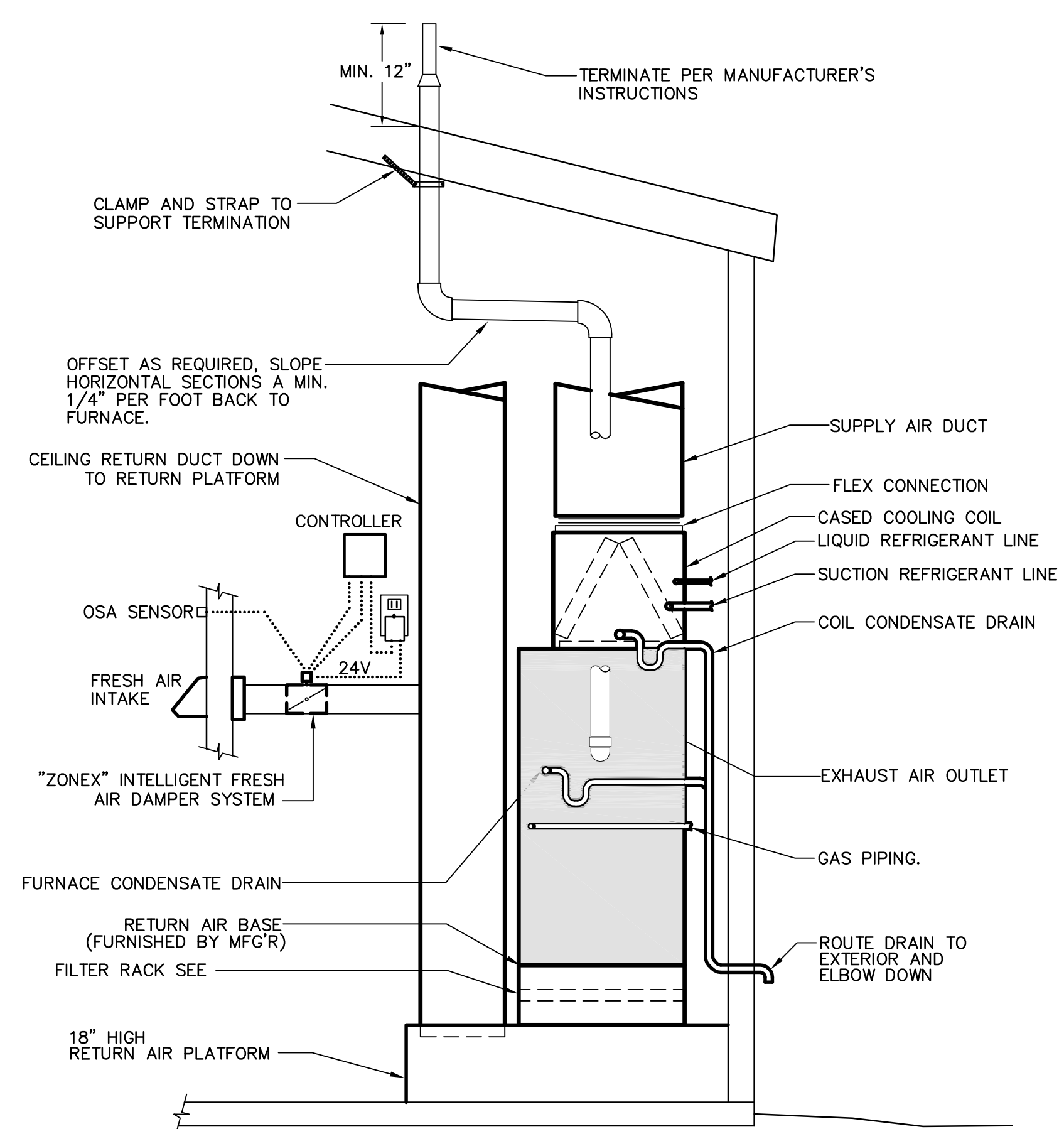
REFRIGERANT PIPING DETAIL

4
M3.1



CEILING EXHAUST FAN DETAIL

1
M3.1



PROPANE FURNACE DETAIL

2
M3.1

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Professional Engineer
33491
WILLIAM MARK ODELL
Exp. 1/24/16
Arizona U.S.A.
Expires 3/31/17

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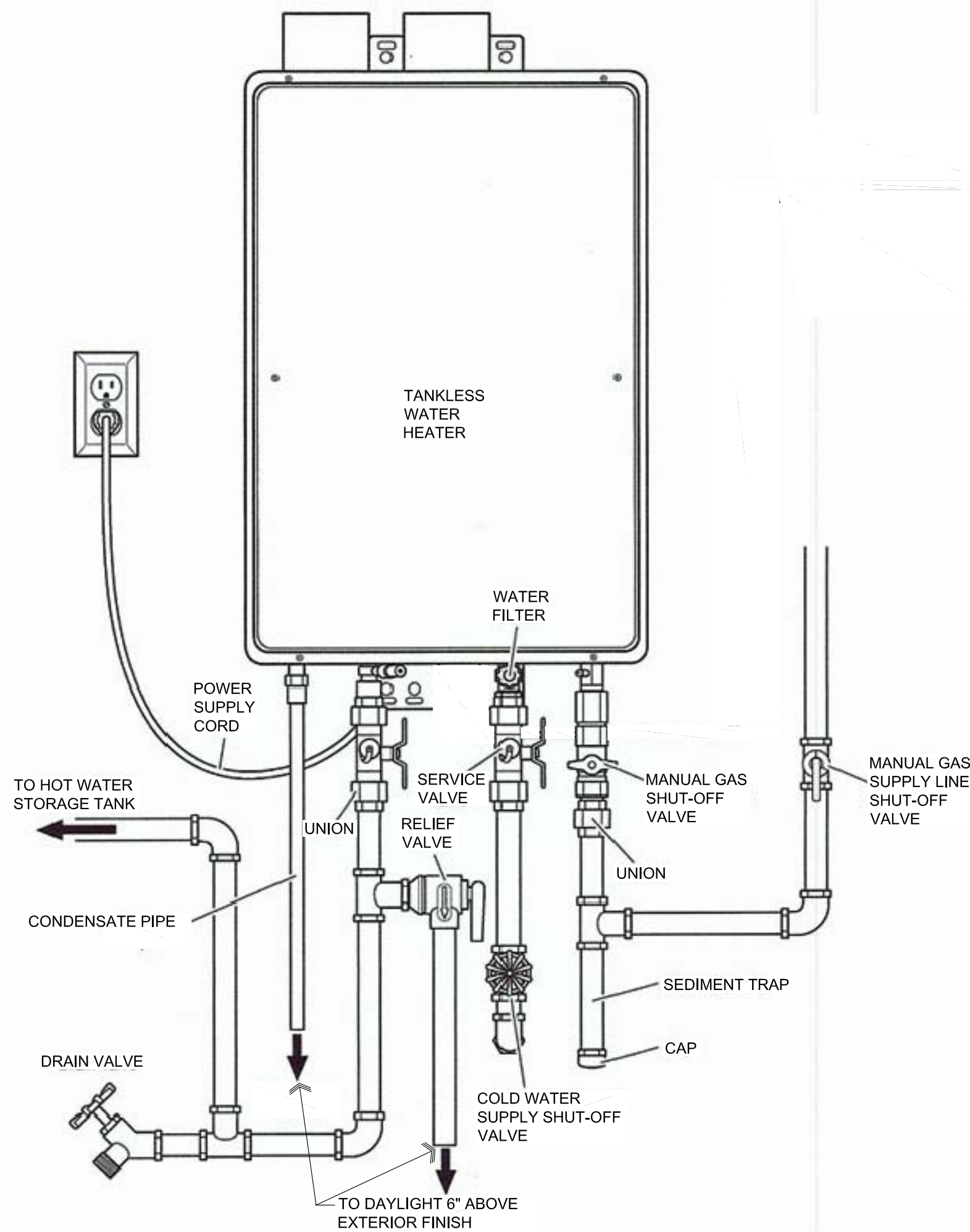
DRAWING: MECHANICAL DETAILS

PROJECT: Lembke-Mellul Residence

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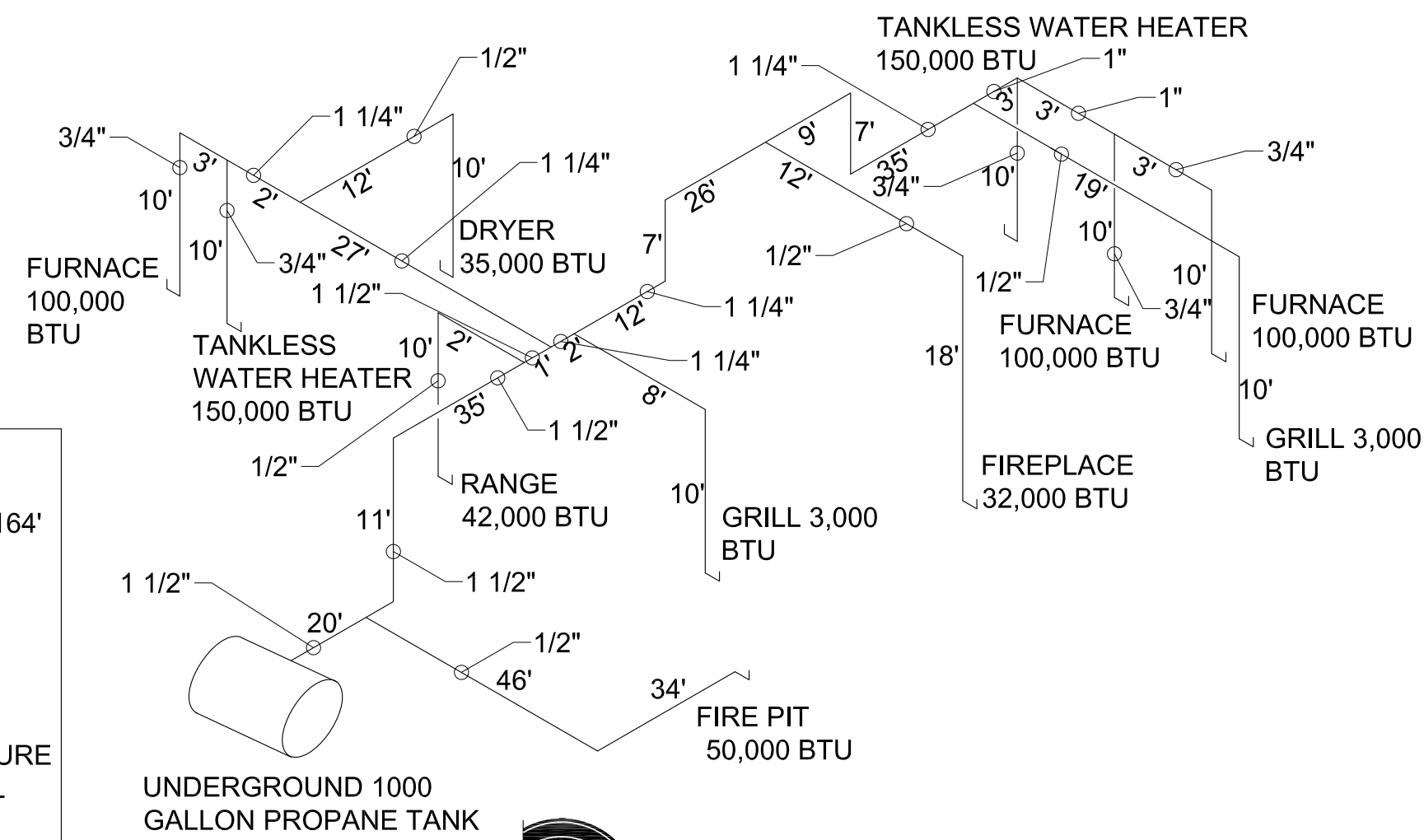


A2 Tankless Water Heater
Scale: N.T.S.

LENGTH OF PIPE FROM TANK TO FURTHEST APPLIANCE OUTLET IS 164'

TOTAL BTU DEMAND IS 760,000 BTUs

SIZED ACCORDING TO INTERNATIONAL FUEL CODE FOR LOW PRESSURE L.P. GAS / SCH 40 STEEL PIPE

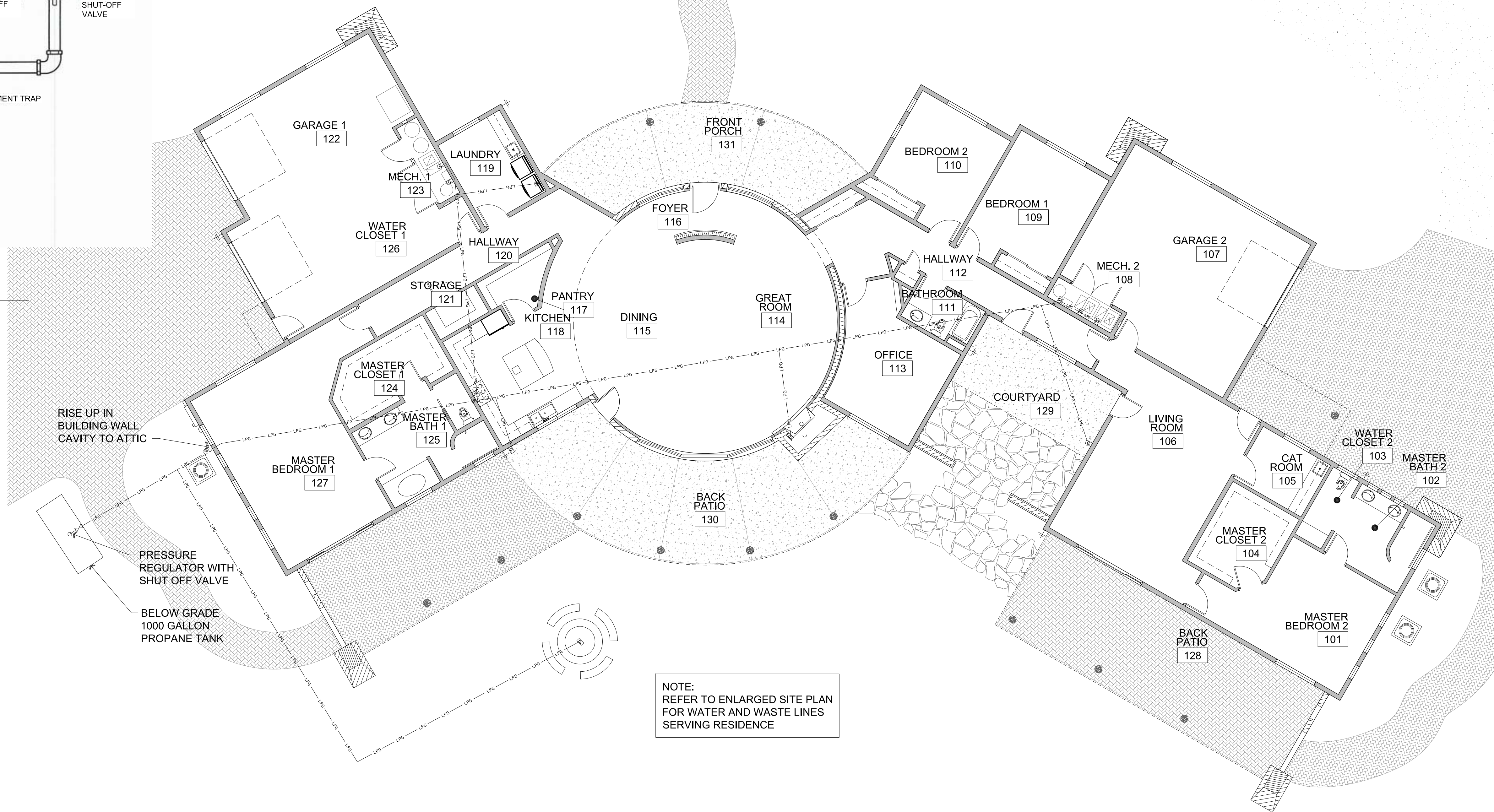


A3 One-Line Gas Isometric
Scale: N.T.S.

Fixture Unit Calculations

TYPE	COUNT	HOT	COLD	COMBINED	TOTAL
FULL BATH GROUP	3	1.5	2.7	3.6	10.8
KITCHEN GROUP	1	1.9	1	2.5	2.5
LAUNDRY GROUP	1	1.8	1.8	2.5	2.5
HOSE BIBB	6	0	2.5	2.5	15
LAVATORY	1	0.5	0.5	0.7	0.7
TOTAL					31.5

31.5 WATER SUPPLY FIXTURE UNITS = 24.9 GALLONS PER MINUTE
1 1/2" WATER LINE PROPOSED



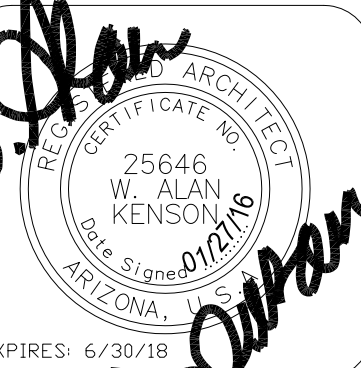
A1 Propane Gas Plan

Scale: 1/8"=1'-0"



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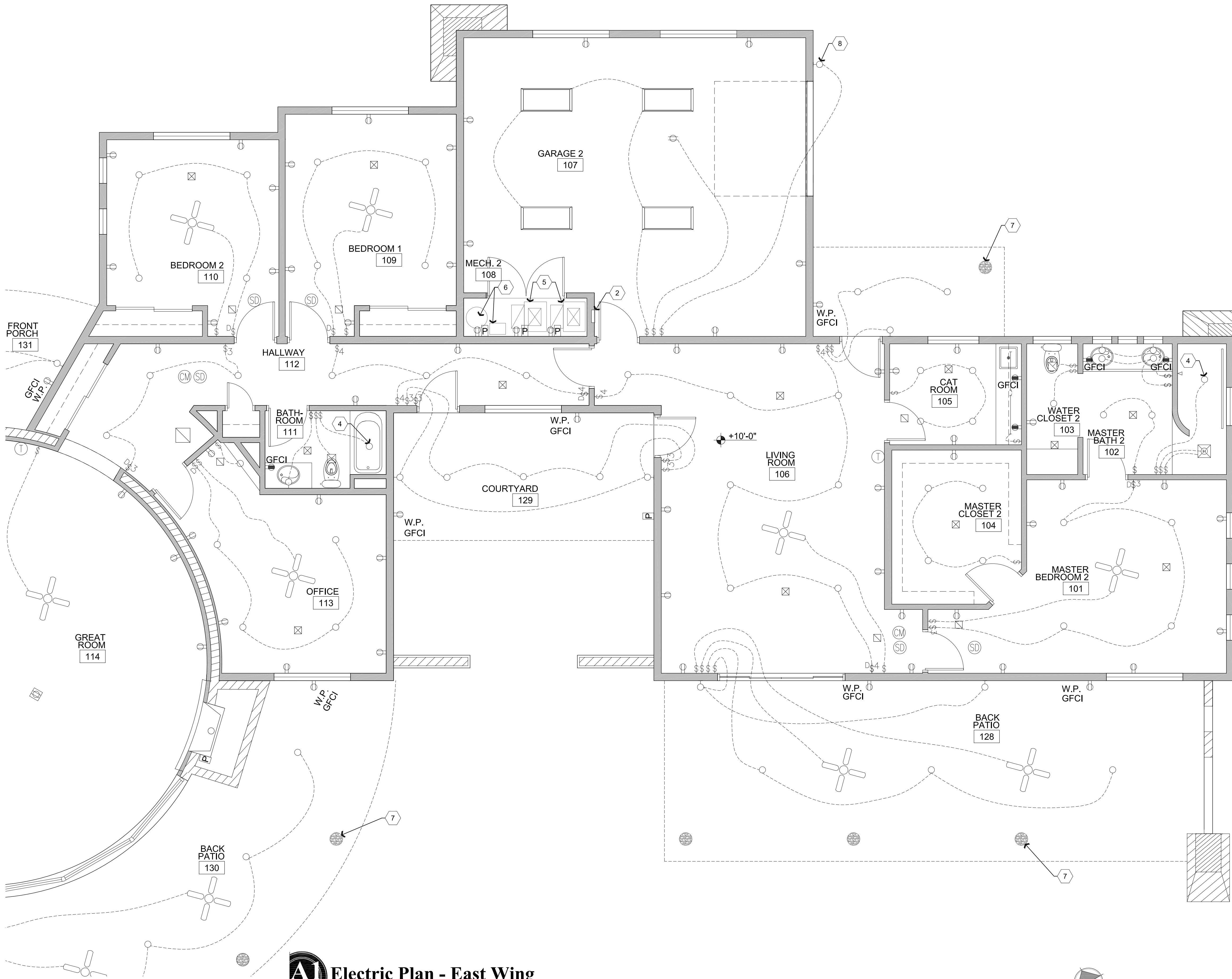
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DRAWING: PROPANE GAS PLAN, GAS ISOMETRIC & WATER HEATER DETAIL
PROJECT: Lembke-Mellul Residence
12255 Slate Rd.
Prescott, AZ 86305

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CHECKED BY W.A.K.
DATE JANUARY 27, 2016
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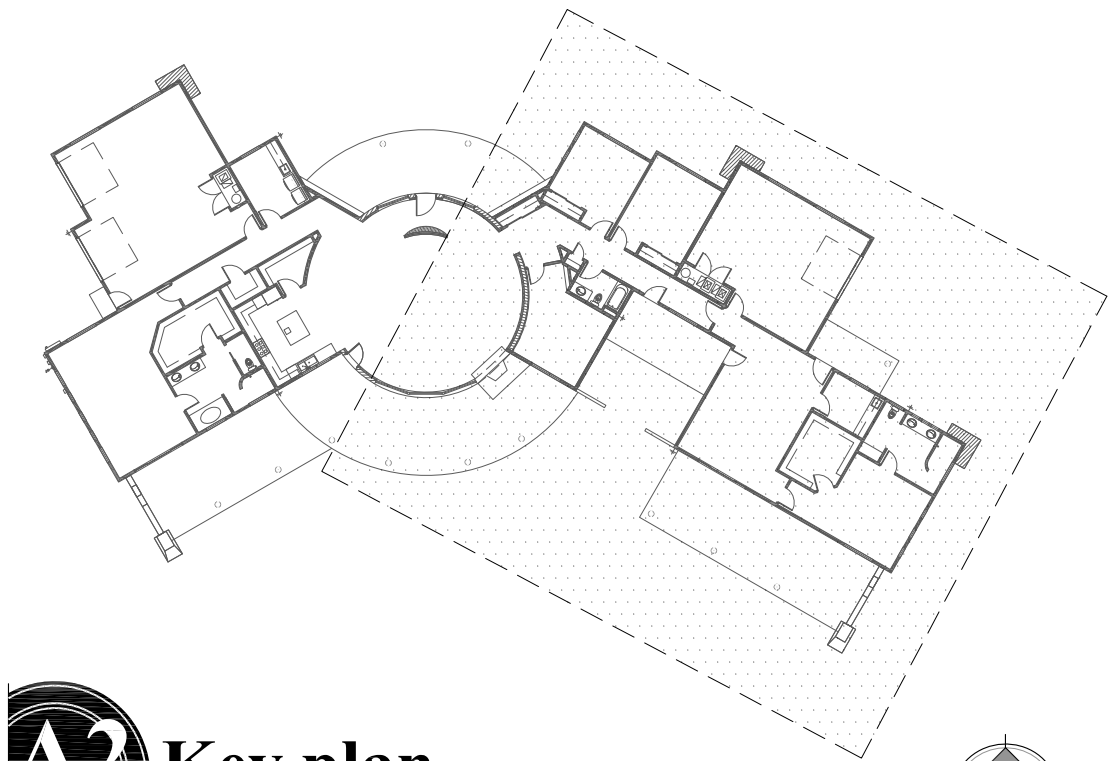
P1.0

Jan 29, 2016 - 8:39am



A1 Electric Plan - East Wing

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



A2 Key plan

Scale: n.t.s.



Descriptive Keynotes

1. ELECTRICAL SERVICE ENTRANCE SECTION AND METER, 400 AMP, SINGLE PHASE SERVICE.
2. ELECTRICAL SUB-PANEL.
3. PROVIDE POWER TO CONDENSING UNIT.
4. PROVIDE RECESSED LIGHT FIXTURES WITH GASKETED LENS.
5. FURNACE / AIR HANDLER.
6. PROVIDE TANKLESS WATER HEATER WITH HOT WATER STORAGE TANK AND RECIRCULATING PUMP.
7. WOOD COLUMN.
8. SHIELDED WALL LIGHT FIXTURE ON MOTION SENSOR.

Legend

- ELECTRICAL PANEL
- DISCONNECT
- JUNCTION BOX
- DUPLEX RECEPTACLE, AT 18" A.F.F.
- DUPLEX RECEPTACLE ABOVE COUNTER OR HEIGHT AS INDICATED
- HALF SWITCHED DUPLEX RECEPTACLE
- SPECIAL RECEPTACLE
- FOURPLEX RECEPTACLE
- FLOOR MOUNTED DUPLEX RECEPTACLE
- DUPLEX RECEPTACLE IN CEILING
- SWITCH, SINGLE POLE AT 48" A.F.F.
- SWITCH, THREE WAY AT 48" A.F.F.
- SWITCH, PRESET DIMMER, 48" A.F.F.
- LIGHT FIXTURE, FLUORESCENT
- UNDER CABINET LIGHTING
- LIGHT FIXTURE, CEILING MOUNTED
- LIGHT FIXTURE, RECESSED, TRIM TO BE DETERMINED
- LIGHT FIXTURE, ADJUSTABLE SPOT
- LIGHT FIXTURE, WALL MOUNTED
- TELEPHONE AND DATA PORT AT 18" A.F.F.
- CABLE TELEVISION OUTLET AT 18" A.F.F.
- DOORBELL SWITCH
- DOORBELL CHIME
- SMOKE DETECTOR / FIRE ALARM
- EXHAUST FAN
- THERMOSTAT
- CARBON MONOXIDE ALARM
- EXHAUST FAN / HEAT LAMP
- SUSPENDED CHANDELIER LIGHT FIXTURE

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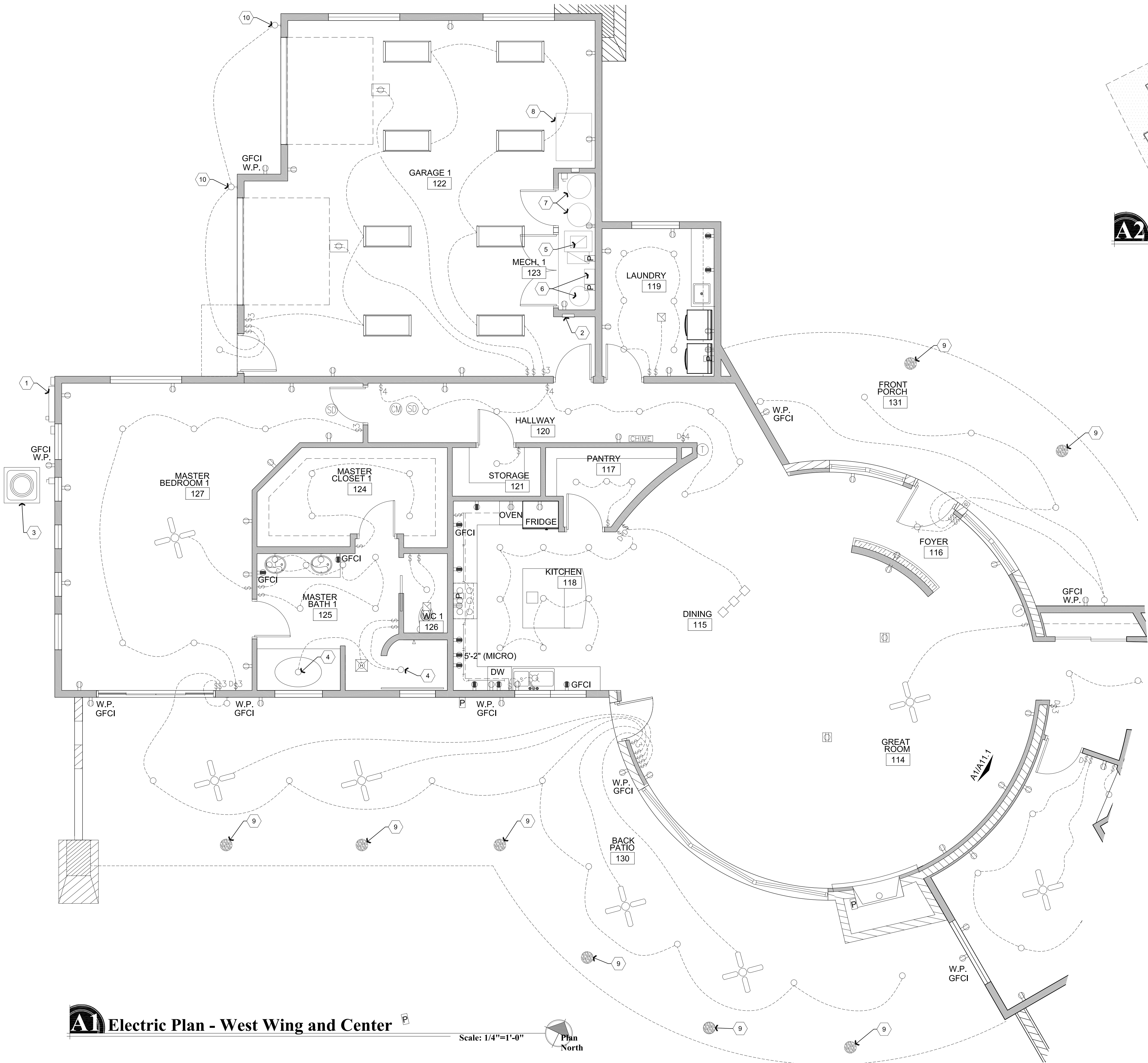
DRAWING: ELECTRIC PLAN - EAST WING

PROJECT: Lembke-Mellul Residence
12255 State Rd.
Prescott, AZ 86305

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DATE JANUARY 27, 2016
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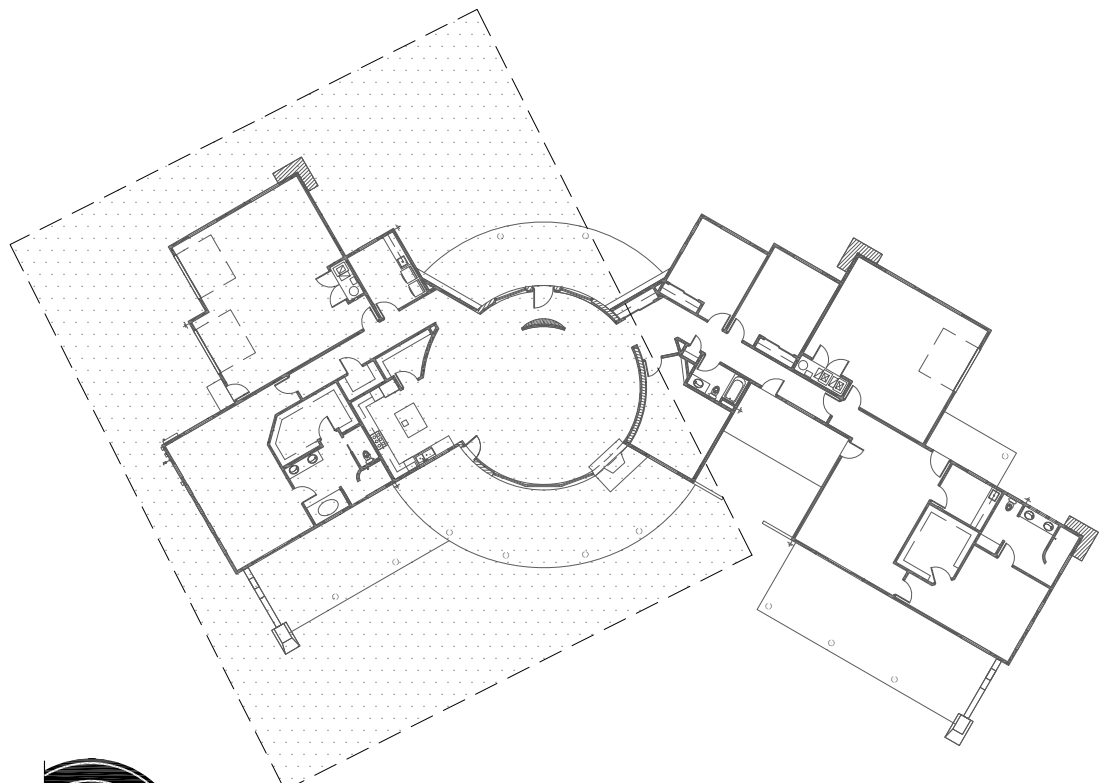
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A1 Electric Plan - West Wing and Center

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



A2 Key plan

Scale: n.t.s.



Descriptive Keynotes

1. ELECTRICAL SERVICE ENTRANCE SECTION AND METER, 400 AMP, SINGLE PHASE SERVICE.
2. ELECTRICAL SUB-PANEL.
3. PROVIDE POWER TO CONDENSING UNIT.
4. PROVIDE RECESSED LIGHT FIXTURES WITH GASKETED LENS.
5. FURNACE / AIR HANDLER.
6. PROVIDE TANKLESS WATER HEATER WITH HOT WATER STORAGE TANK AND RECIRCULATING PUMP.
7. PRESSURE TANK.
8. 350 GALLON WATER TANK FOR FIRE SUPPRESSION SYSTEM.
9. WOOD COLUMN.
10. SHIELDED WALL LIGHT FIXTURE ON MOTION SENSOR.

Legend

- ELECTRICAL PANEL
- DISCONNECT
- JUNCTION BOX
- DUPLEX RECEPTACLE, AT 18" A.F.F.
- DUPLEX RECEPTACLE ABOVE COUNTER OR HEIGHT AS INDICATED
- HALF SWITCHED DUPLEX RECEPTACLE
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- SUSPENDED CHANDELIER LIGHT FIXTURE

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ARCHITECTURE & PLANNING

DRAWING: ELECTRIC PLAN - WEST WING AND CENTER

PROJECT: Lembke-Mellul Residence
12255 Slate Rd.
Prescott, AZ 86305

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RESIDENTIAL ELECTRIC SERVICE LOAD CALCULATION

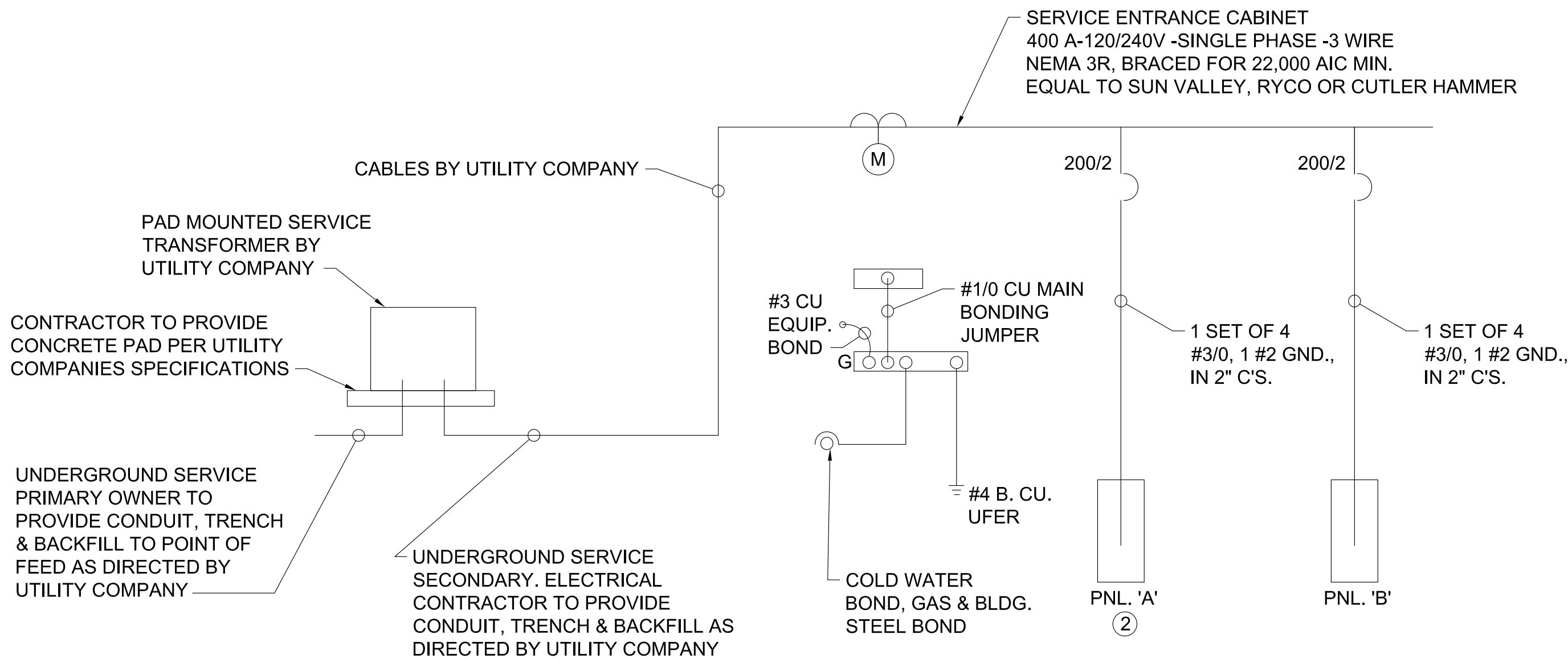
Load Type	Load Value	Multiplier/Demand	Total
		68,641 VA;	
General Lighting (includes future workshop)	10,597 s.f. x 3 VA = 31,791	10,000 VA @ 100% 58,641 VA @ 40%	33,456 VA
Small Appliance Branch Circuits	4 circuits x 1500 VA = 6000 VA		
Laundry Circuit	1 circuit x 1500 VA		
Electric Dryer	1 dryer x 5000 VA		
Electric Range	1 range x 11000 VA		
Double Ovens	9600 VA		
Microwave	1500 VA		
Refrigerator	1000 VA		
Dishwasher	1250 VA		
Air Conditioner	3 AC x 9600 VA		28,800 VA
		Total Calculated Load	62,256 VA

TOTAL CALCULATED DEMAND LOAD IN VOLT-AMPERES =
TOTAL CALCULATED DEMAND LOAD IN AMPS AT 1 PHASE 3 WIRE, 120/240 VOLTS =
MINIMUM SERVICE REQUIRED =
SERVICE SIZE REQUESTED =

62,256 VA
259 AMPS
300 AMPS
400 AMPS

General Electrical Notes:

1. A MINIMUM OF TWO 20-AMPERE RATED BRANCH CIRCUITS SHALL BE PROVIDED FOR RECEPTACLES LOCATED IN THE KITCHEN, PANTRY, BREAKFAST, AND DINING AREAS. AN ADDITIONAL 20 AMPERE RATED BRANCH CIRCUIT SHALL BE PROVIDED TO THE LAUNDRY AND A SEPARATE 20 AMPERE RATED BRANCH CIRCUIT SHALL BE PROVIDED FOR BATHROOM RECEPTACLES.
2. ALL BRANCH CIRCUITS THAT SUPPLY 120-VOLT, SINGLE-PHASE, 15- AND 20-AMPERE OUTLETS INSTALLED IN FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATIONS ROOMS, CLOSETS, HALLWAYS AND SIMILAR ROOMS OR AREAS SHALL BE PROTECTED BY A COMBINATION TYPE ARC-FAULT CIRCUIT INTERRUPTER INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUIT.
3. IN EVERY KITCHEN, FAMILY ROOM, DINING ROOM, LIVING ROOM, PARLOR, LIBRARY, DEN, SUN ROOM, BEDROOM, RECREATION ROOM, OR SIMILAR ROOM OR AREA OF DWELLING UNITS, RECEPTACLES SHALL BE INSTALLED SO THAT NO POINT ALONG THE FLOOR LINE IN ANY WALL SPACE IS MORE THAN 6 FEET, MEASURED HORIZONTALLY, FROM AN OUTLET IN THAT SPACE, INCLUDING ANY WALL SPACE 2 FEET OR MORE IN WIDTH.
4. IN KITCHEN AND DINING ROOMS, AT LEAST ONE RECEPTACLE OUTLET SHALL BE INSTALLED AT EACH ISLAND OR PENINSULAR COUNTER SPACE WITH A LONG DIMENSION OF 24 INCHES OR GREATER AND A SHORT DIMENSION OF 12 INCHES.
5. IN KITCHEN AND DINING ROOMS, AT LEAST ONE RECEPTACLE OUTLET SHALL BE INSTALLED AT EACH WALL COUNTER SPACE 12 INCHES OR WIDER SO THAT NO POINT ALONG THE WALL IS MORE THAN 24 INCHES FROM A RECEPTACLE OUTLET AND SHALL BE GFCI PROTECTED.
6. PROVIDE AT LEAST ONE WEATHERPROOF RECEPTACLE OUTLET, NOT MORE THAN 6 FEET 6 INCHES ABOVE GRADE AND GFCI PROTECTED, AT THE FRONT AND BACK OF EACH DWELLING. ALL RECEPTACLES INSTALLED OUTDOORS MUST BE GFCI PROTECTED.
7. PROVIDE AT LEAST (1) ONE RECEPTACLE OUTLET IN HALLWAYS 10 FEET OR MORE IN LENGTH.
8. A 125 VOLT, SINGLE PHASE, 15 OR 20 AMPERE RATED RECEPTACLE OUTLET SHALL BE INSTALLED AT AN ACCESSIBLE LOCATION FOR THE SERVICING OF HEATING, AIR CONDITIONING AND REFRIGERATION EQUIPMENT. THE RECEPTACLE SHALL BE LOCATED ON THE SAME LEVEL AND WITHIN 25 FEET OF THE EQUIPMENT.
9. ALL 125 VOLT, SINGLE PHASE, 15 AND 20 AMPERE RECEPTACLES IN THE FOLLOWING LOCATIONS SHALL BE GFCI PROTECTED: BATHROOMS, GARAGES, UNFINISHED ACCESSORY BUILDINGS, CRAWL SPACES, UNFINISHED BASEMENTS, BAR SINKS (WITHIN 6 FEET) AND LAUNDRY ROOM SINKS (WITHIN 6 FEET).
10. PROVIDE AT LEAST (1) ONE WALL MOUNTED SWITCH CONTROLLED LIGHTING OUTLET IN EVERY HABITABLE ROOM AND BATHROOM.
11. PROVIDE A LIGHTING OUTLET ON THE EXTERIOR SIDE OF ALL EXITS/ENTRANCES.
12. A RECEPTACLE SHALL NOT BE INSTALLED WITHIN A BATHTUB OR SHOWER SPACE.
13. FIXTURES, FITTINGS, BOXES AND RECEPTACLES LOCATED IN DAMP OR WET LOCATIONS SHALL BE "LISTED" TO BE SUITABLE FOR SUCH LOCATION.
14. PROVIDE INTERCONNECTED SMOKE ALARMS IN EACH SLEEPING ROOM, IMMEDIATELY OUTSIDE EACH SLEEPING ROOM, ON EACH ADDITIONAL STORY INCLUDING BASEMENTS, AND IN THE HALLWAY. SMOKE ALARMS SHALL BE HARD WIRED WITH BATTERY BACKUP.
15. PROVIDE A GROUNDING ELECTRODE SYSTEM. PROVIDE BONDING TO THE INTERIOR WATER PIPING AND ABOVE GROUND PORTION OF GAS PIPING SYSTEM.



A1 Electrical One-Line Diagram

Scale: N.T.S.

REVISIONS	BY

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ARCHITECTURE & PLANNING

DRAWING: ELECTRICAL LOAD CALCULATIONS AND ONE-LINE DIAGRAM

PROJECT: Lembke-Mellul Residence
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DRAWN BY L.O.
CHECKED BY W.A.K.
DATE JANUARY 27, 2016
SCALE AS NOTED
JOB NO. 674
SHEET

E1.2