

# Lembke-Mellul Workshop

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. WINDOWS SHALL BE FLASHED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
4. GLAZING IN HAZARDOUS LOCATIONS SHALL COMPLY WITH IRC 308.

## Project Information

<b>CLIENT:</b>	Leslie & Bob Lembke, Lani Mellul	PH: 219-929-6908 CONTACT: Bob Lembke
<b>PREPARED BY:</b>	W. Alan Kenson & Assoc., P.C. P.O. Box 11593 Prescott, AZ 86304	PH: 928-443-5812 CONTACT: Alan Kenson WAKA@cablone.net
<b>JOBSITE ADDRESS:</b>	12255 W. Slate Rd., Prescott, AZ	
<b>PARCEL NUMBER:</b>	300-37-129	
<b>ZONING:</b>	Residential Rural	
<b>SITE USE:</b>	Residential	
<b>OCCUPANCY:</b>	Group U (utility and miscellaneous)	
<b>CONST. TYPE:</b>	VB	
<b>CURRENT CODE:</b>	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 2012 National Electrical Code	
<b>AREA SUMMARY:</b>	Workshop: 1,696 S.F. Covered porch (2) 224 S.F. Total 1,920 S.F.	

## Sheet Index

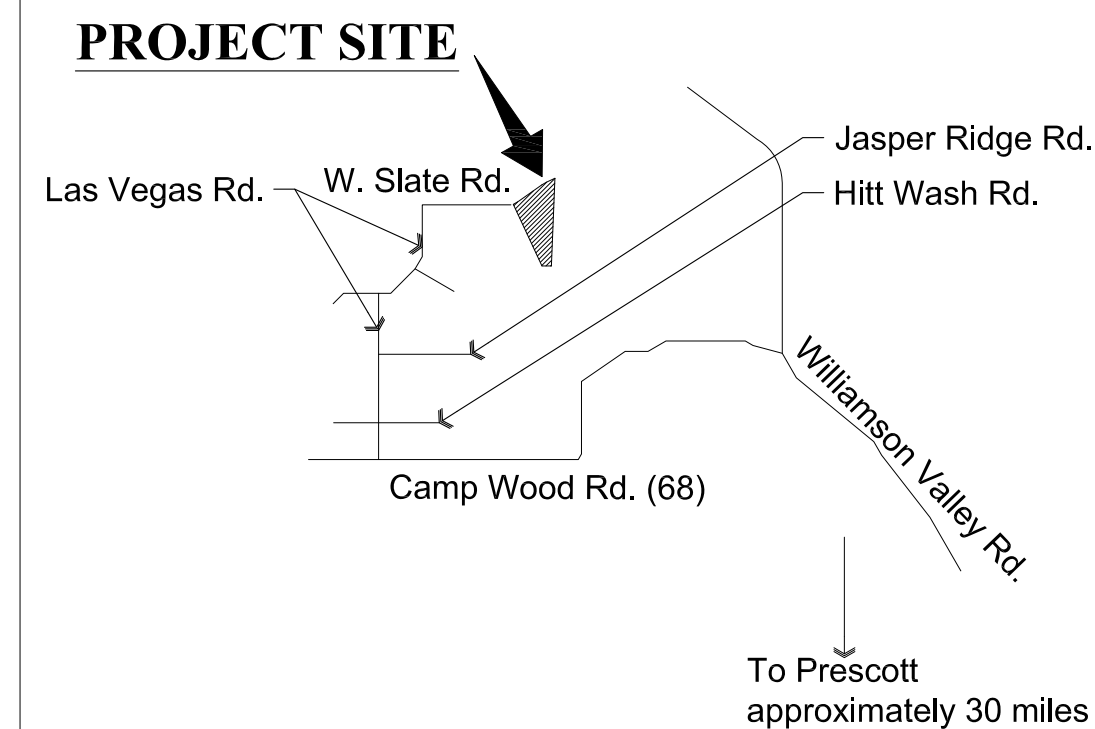
<u>ARCHITECTURAL</u>	<u>STRUCTURAL</u>
CS Cover Sheet / Project Information	S1 General Structural Notes
C1 Civil Cover Sheet	S1.1 Typical Details T1 - T9
C2 Grading and Drainage plan	S2 Foundation Plan
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## Graphic Standards

	NORTH ARROW INDICATOR
	DETAIL DESIGNATOR
	BUILDING SECTION DESIGNATOR
	GRID LINE DESIGNATOR
	REVISION DESIGNATOR
	ELEVATION DESIGNATOR
	DESCRIPTIVE NOTE DESIGNATOR
	ROOM NUMBER / FINISH DESIGNATOR
	DOOR NUMBER DESIGNATOR
	DOOR TYPE DESIGNATOR
	WINDOW TYPE DESIGNATOR
	WALL TYPE DESIGNATOR

## Deferred Submittals

## Vicinity Map



## Architect:

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**ARCHITECTURE & PLANNING**



REVISIONS	BY

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**ARCHITECTURE & PLANNING**

**DRAWING:** COVER SHEET

**PROJECT:** Lembke-Mellul Workshop  
12255 W. Slate Rd.  
Prescott, AZ

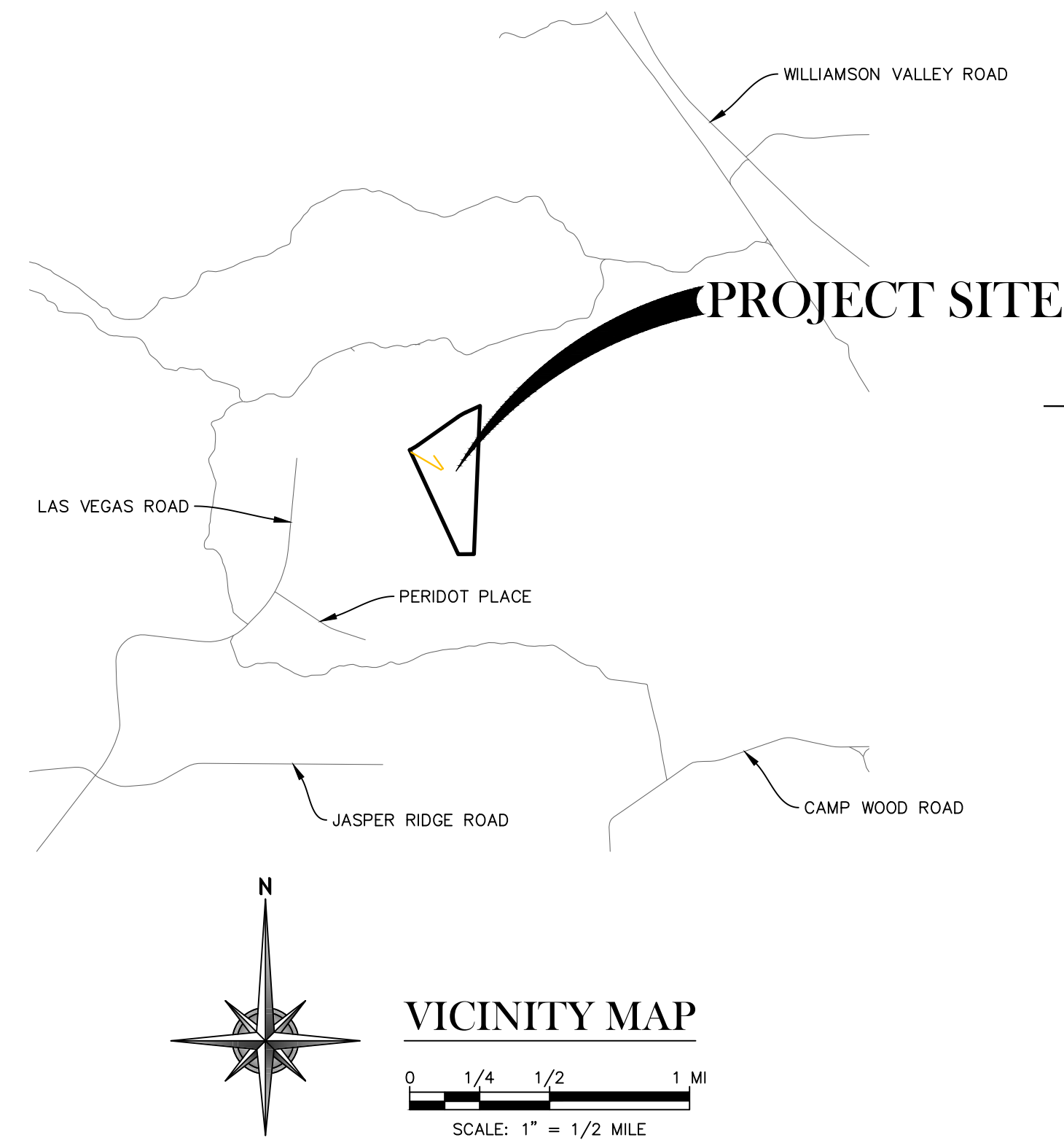
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DATE JANUARY 27, 2016
SCALE AS NOTED
JOB NO. 674
SHEET

**CS**



# LEMBKE-MELLUL WORKSHOP 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.

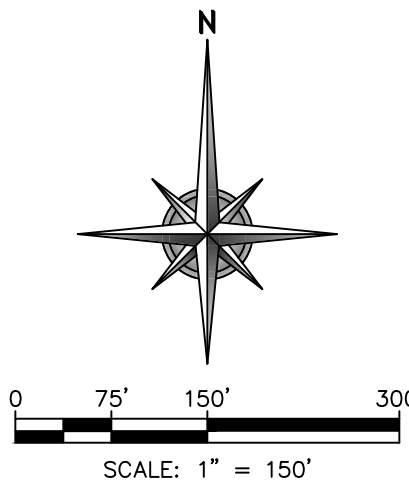
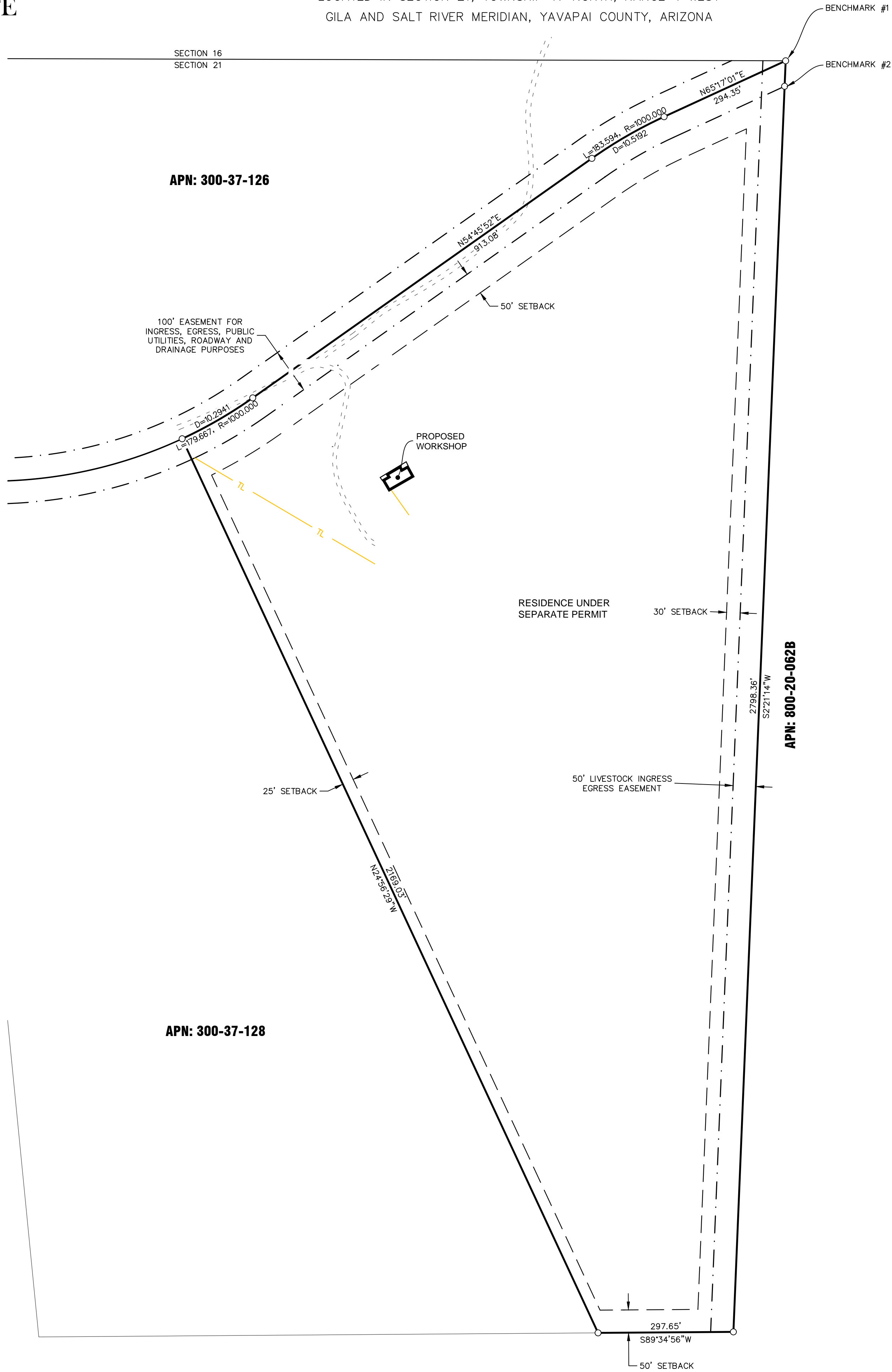
### NOTES FOR EARTHWORK ASSUMPTIONS:

- 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



### 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'

### 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.

### 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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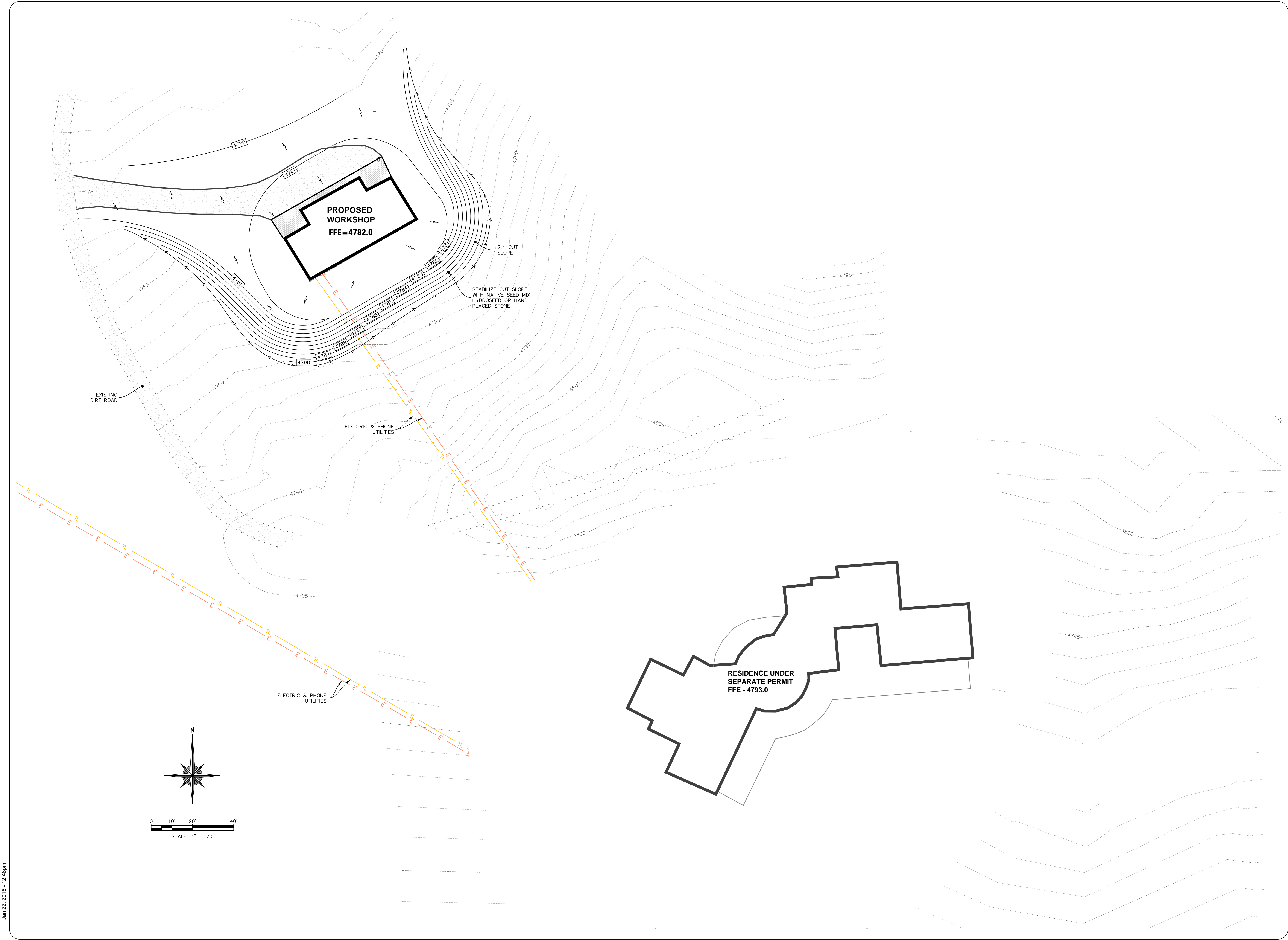
DRAWING: GRADING AND DRAINAGE PLAN

PROJECT: Lembke-Mellul Workshop

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DATE JANUARY 2016
SCALE AS NOTED
JOB NO. 674
SHEET

# C1



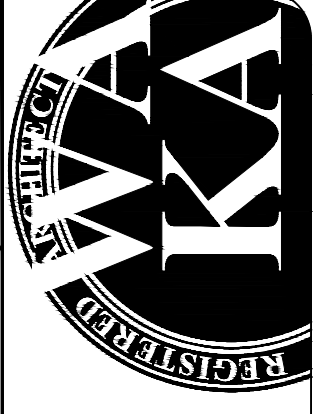


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**ARCHITECTURE & PLANNING**

**DRAWING:** GRADING AND DRAINAGE PLAN

**PROJECT:** Lembke-Mellul Workshop

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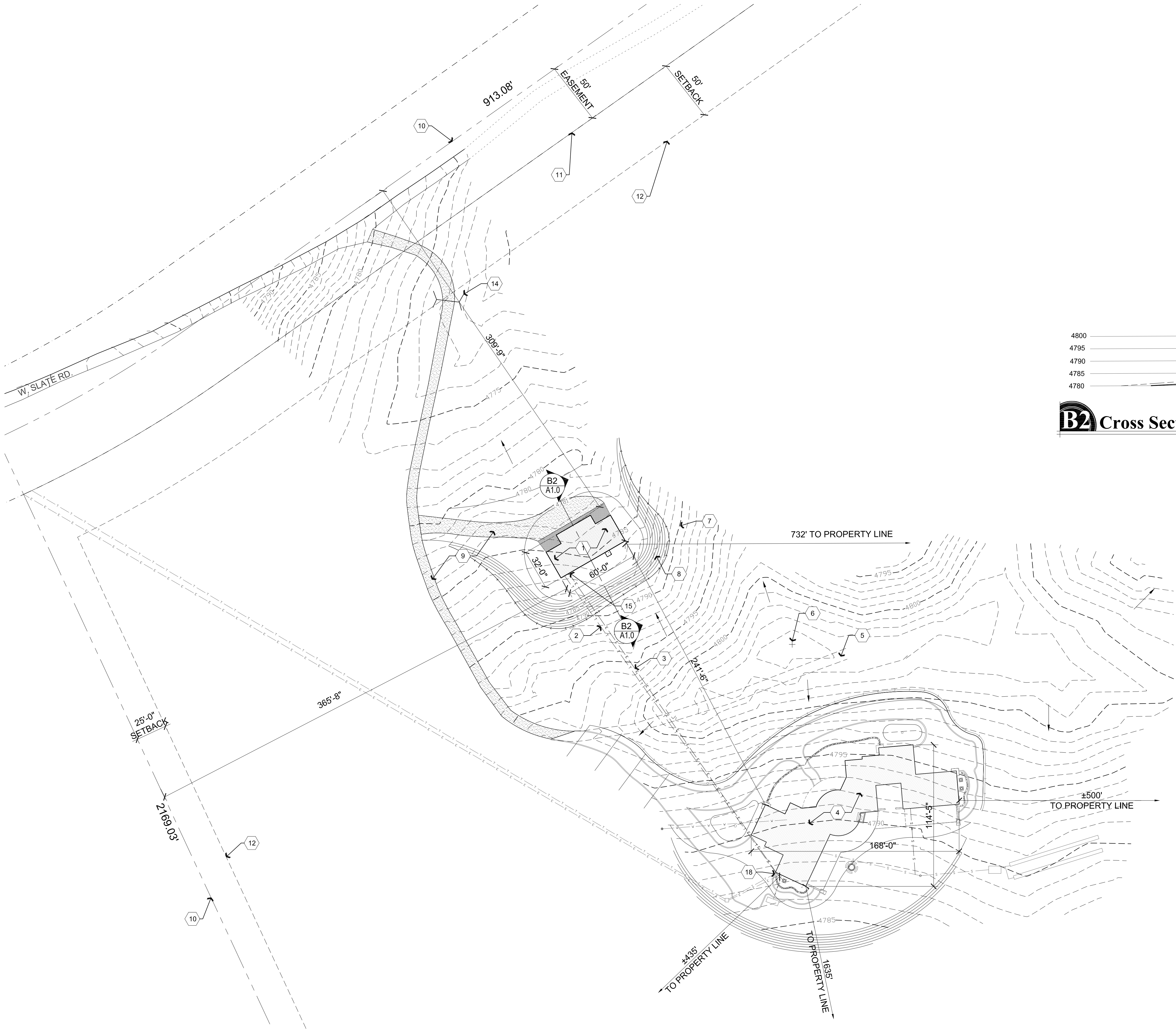
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JANUARY 2016

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**JOB NO.**  
674

**SHEET**  
**C2**

Feb 01, 2016 - 1:08pm



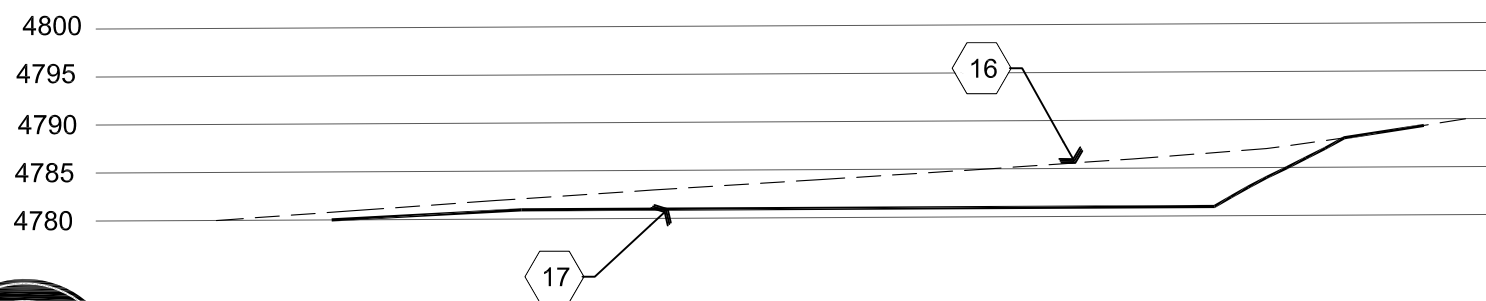
**A1** Site Plan

Scale: 1"=40'-0"



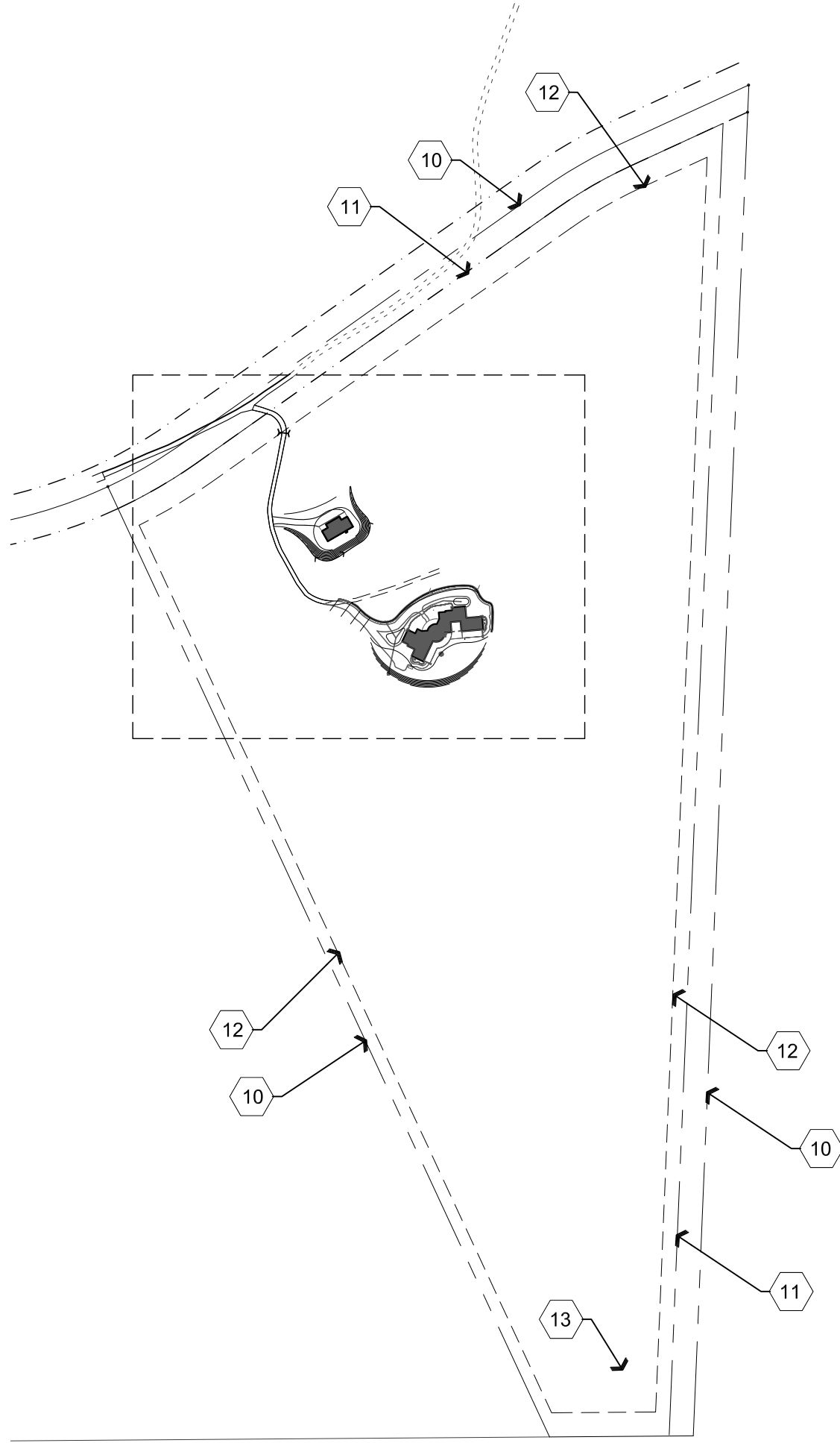
**Descriptive Keynotes**

1. PROPOSED 1696 S.F. WORKSHOP, F.F.E. 4782
2. PROVIDE 2" DB 120 ELECTRICAL CONDUIT FOR FUTURE USAGE.
3. DB 120 ELECTRICAL CONDUIT.
4. PROPOSED RESIDENCE ON A SEPARATE PERMIT.
5. EXISTING DRIVEWAY, TO BE ABANDONED.
6. HIGH POINT ON LOT - 4804'.
7. EXISTING CONTOURS. REFER TO CIVIL PLANS.
8. PROPOSED CONTOURS. REFER TO CIVIL PLANS.
9. STABILIZED, DECOMPOSED GRANITE DRIVEWAY.
10. PROPERTY LINE.
11. EASEMENT LINE.
12. SETBACK LINE.
13. LOW POINT ON LOT - 4740'. (SOUTHEAST CORNER OF LOT)
14. 18" DIAMETER HDPE CULVERT UNDER RESIDENCE PERMIT.
15. ELECTRIC PANEL WITH MEANS OF DISCONNECT.
16. EXISTING GRADE.
17. PROPOSED GRADE.
18. PROPOSED 400 AMP SINGLE PHASE 120/240 VOLT SERVICE ENTRANCE SECTION UNDER RESIDENCE PERMIT.



**B2** Cross Section - Existing and Proposed Grade

Scale: 1"=20'-0"



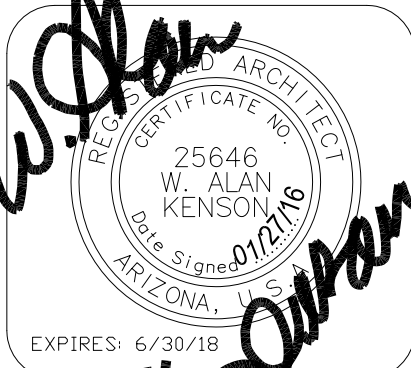
**B1** Key Plan

Scale: N.T.S.



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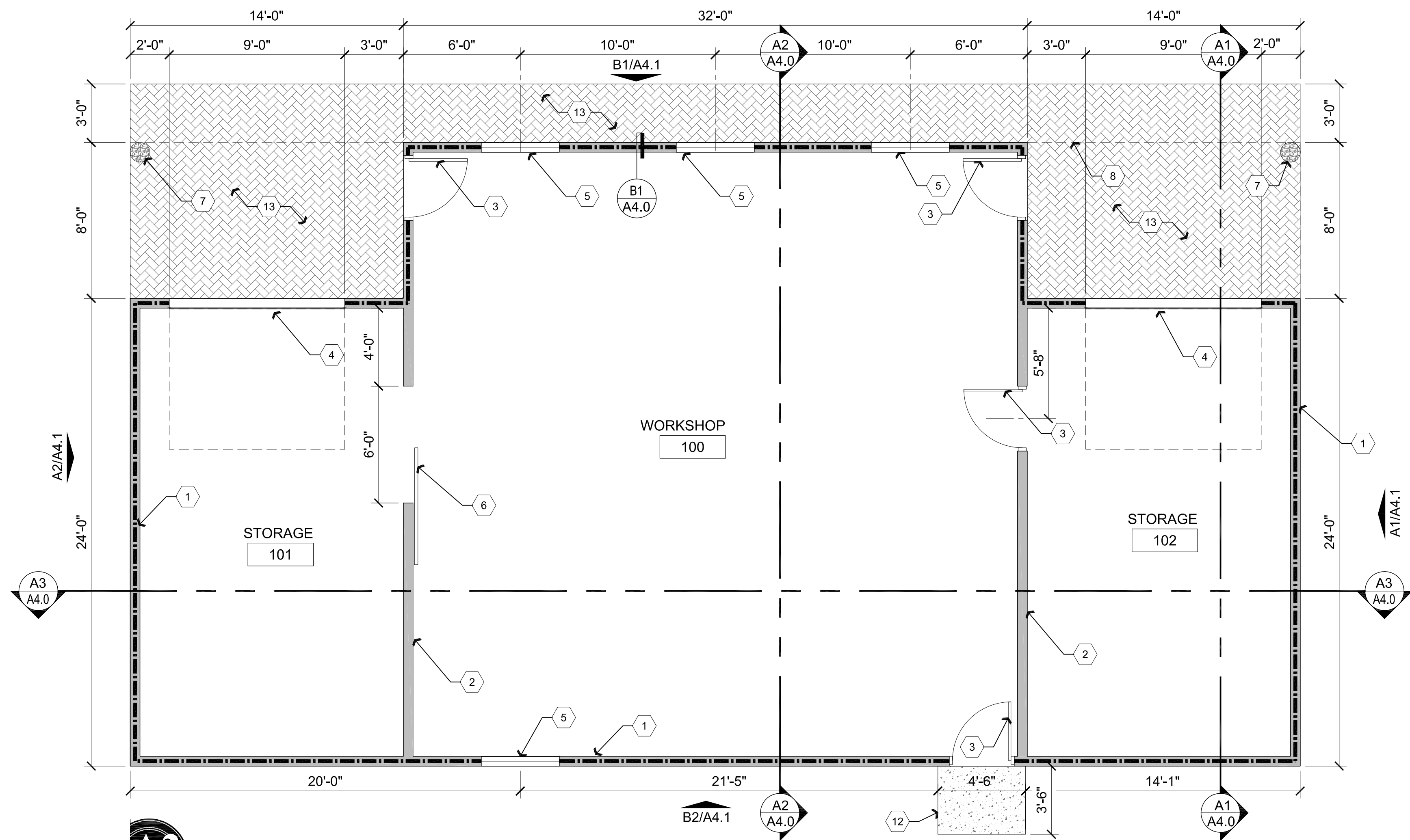
**DRAWING:** SITE PLAN

**PROJECT:** Lembke-Mellul Workshop  
12255 W. Slate Rd.  
Prescott, AZ

DRAWN BY L.O.
CHECKED BY W.A.K.
DATE JANUARY 27, 2016
SCALE AS NOTED
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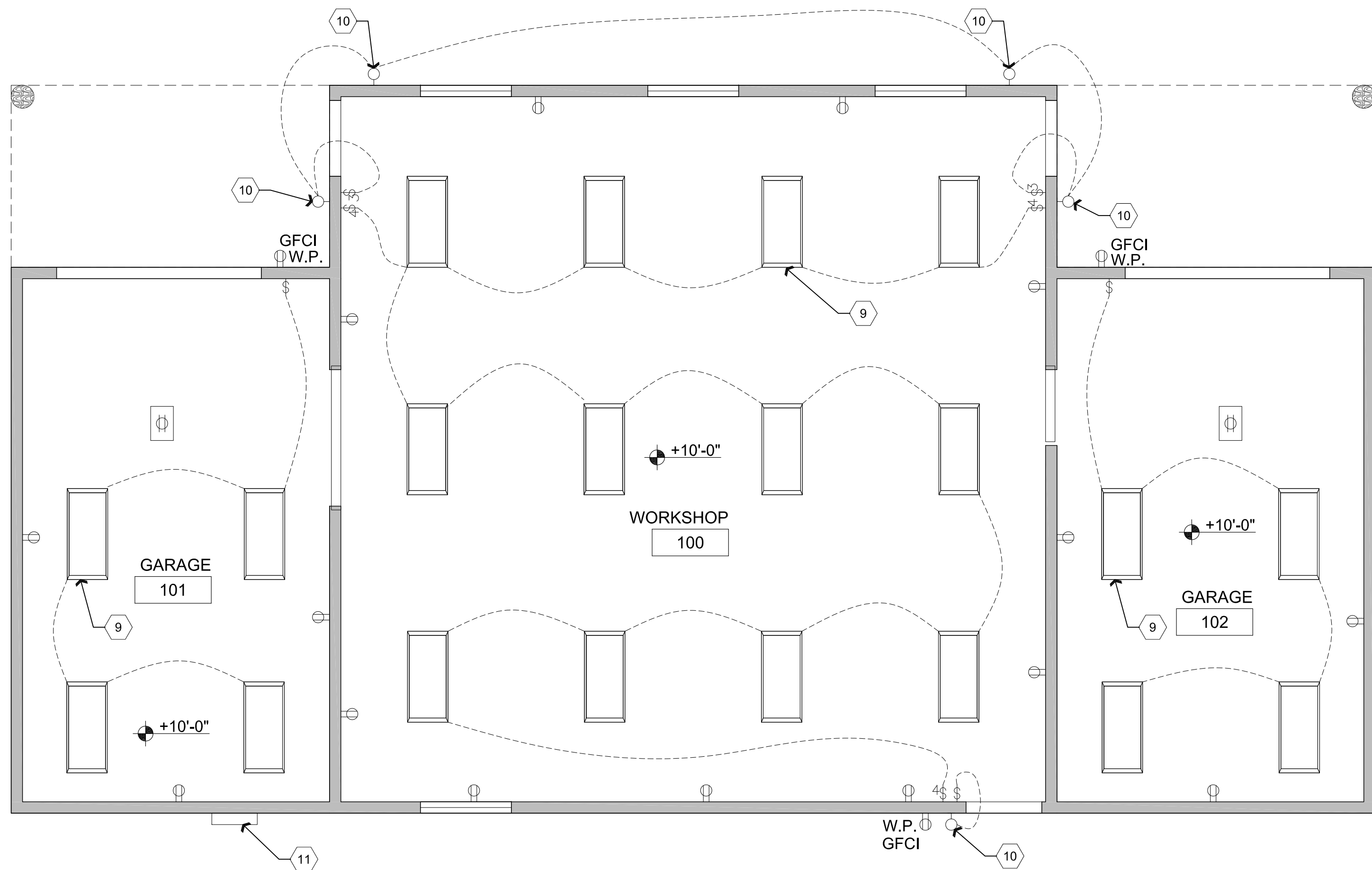
**A1.0**





**A2** Reference / Dimension / Wall types Plan

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



**A1** Electric / Reflected Ceiling Plan

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



## Descriptive Keynotes

1. EXTERIOR WALL. REFER TO WALL TYPES LEGEND.
2. INTERIOR WALL. REFER TO WALL TYPES LEGEND.
3. PROVIDE 3'-0"x6'-8" HOLLOW METAL DOOR.
4. PROVIDE 9'-0"x8'-0" OVERHEAD DOOR.
5. PROVIDE 4'-0" x 3'-6" CASEMENT WINDOW.
6. PROVIDE 6'-0"x8'-0" SLIDING BARN DOOR.
7. WOOD COLUMN, TYPICAL. REFER TO STRUCTURAL PLANS.
8. ROOF LINE ABOVE.
9. FLUORESCENT LIGHT FIXTURE. TYPICAL
10. WALL LIGHT FIXTURE. TYPICAL
11. ELECTRICAL PANEL WITH MEANS OF DISCONNECT.
12. 4" CONCRETE LANDING OVER 6" COMPACTED ABC.
13. CONCRETE PAVERS OVER COMPACTED ABC.

## 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. PROVIDE WESTERN ONE COAT STUCCO SYSTEM WITH SYNTHETIC FINISH OVER 1" POLYSTYRENE OVER WEATHER PROOF BARRIER.
- INTERIOR 2x6 STUD WALL:** PROVIDE 1-LAYER 1/2" GPDW ON EACH SIDE OF 2x6 WOOD STUDS AT 1'-4" ON CENTER.

## Legend

- TYPICALLY INDICATES 2' x 4' SURFACE MOUNTED FLUORESCENT LIGHT FIXTURE
- TYPICALLY INDICATES WALL MOUNTED SHIELDED LIGHT FIXTURE

**NOTE:**

- STORAGE AREAS ON BOTH SIDES OF WORKSHOP WILL BE USED FOR STORAGE OF WORKSHOP MATERIALS - NOT FOR THE STORAGE OF AUTOMOBILES.

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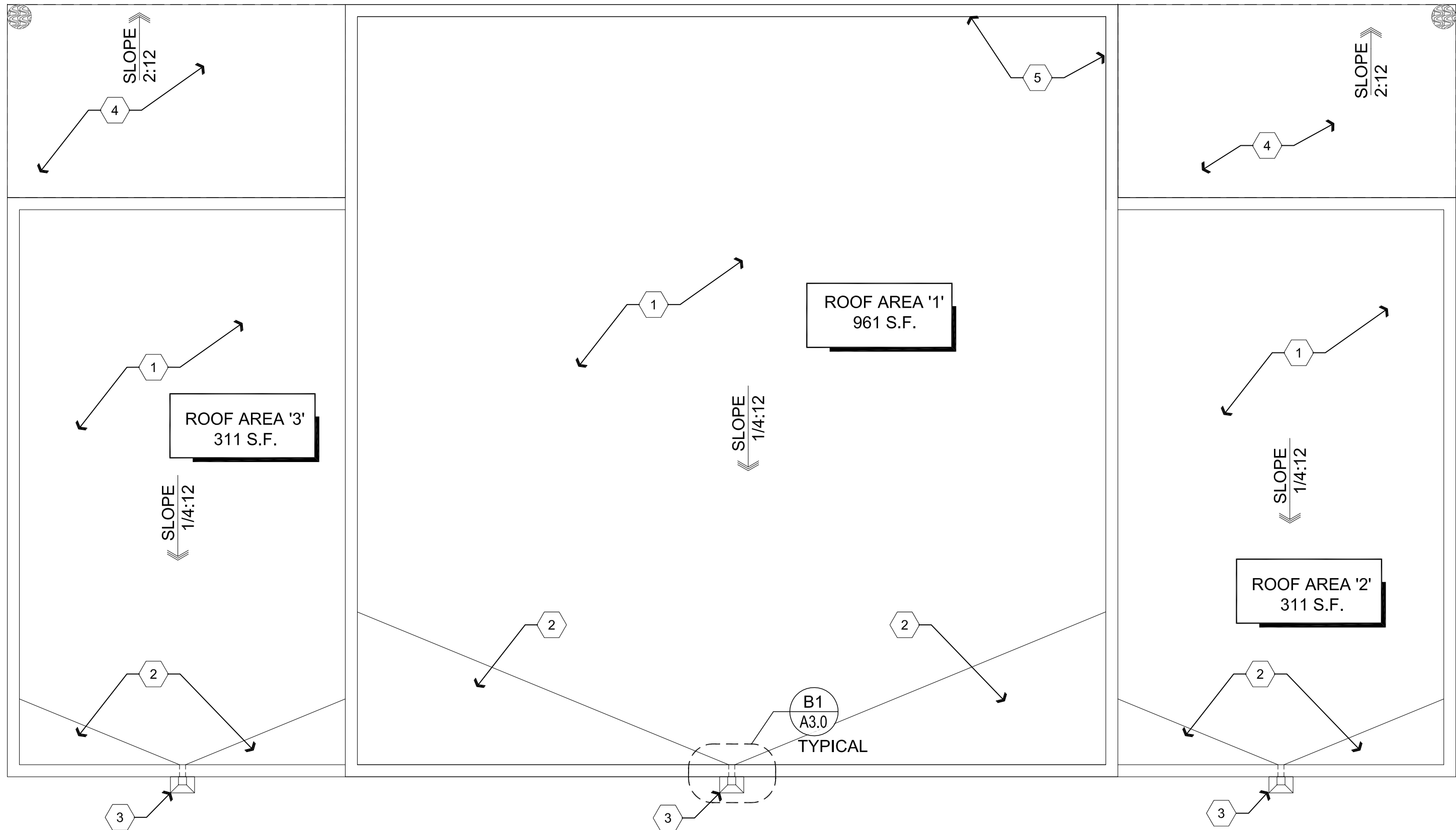
**DRAWING:** REFERENCE, DIMENSION, WALL TYPES PLAN AND ELECTRIC / REFLECTED CEILING PLAN

**PROJECT:** Lembke-Mellul Workshop  
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**A1** Roof Plan

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



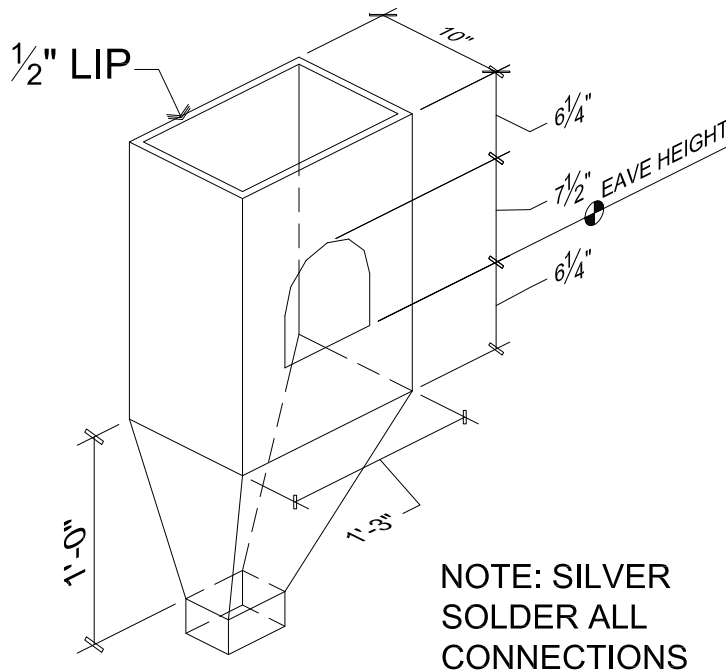
### Descriptive Keynotes

1. TPO SINGLE PLY ROOFING MEMBRANE OVER 1/2" PLYWOOD.
2. PROVIDE CRICKET, TYPICAL. SLOPE SHALL BE DOUBLE THAT OF ADJACENT ROOF SLOPE.
3. SHEET CONDUCTOR HEAD AND DOWNSPOUT.
4. CORRUGATED, 22 GAUGE, METAL ROOF PANELS OVER 1/2" SHEATHING. REFER TO STRUCTURAL PLANS.
5. PARAPET WALL, TYPICAL.

### Roof Drain Leader Sizes:

PER 2012 IPC SECTION 1106  
(TABLE 1106.2)

- |   |   |
|---|---|
| 1 | ROOF AREA '1': 961 S.F. x 3" RAINFALL P.H. = (1) 1 3/4" x 2 1/2" LEADER REQUIRED<br>(1) 4" x 4" LEADER PROVIDED |
| 2 | ROOF AREA '2': 311 S.F. x 3" RAINFALL P.H. = (1) 1 3/4" x 2 1/2" LEADER REQUIRED<br>(1) 4" x 4" LEADER PROVIDED |
| 3 | ROOF AREA '3': 311 S.F. x 3" RAINFALL P.H. = (1) 1 3/4" x 2 1/2" LEADER REQUIRED<br>(1) 4" x 4" LEADER PROVIDED |



**B1** Sheet Metal Conductor Head

SCALE: N.T.S.

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**ARCHITECTURE & PLANNING**

**DRAWING:** ROOF PLAN AND DETAILS

**PROJECT:** Lembke-Mellul Workshop  
12255 W. Slate Rd.  
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**A3.0**



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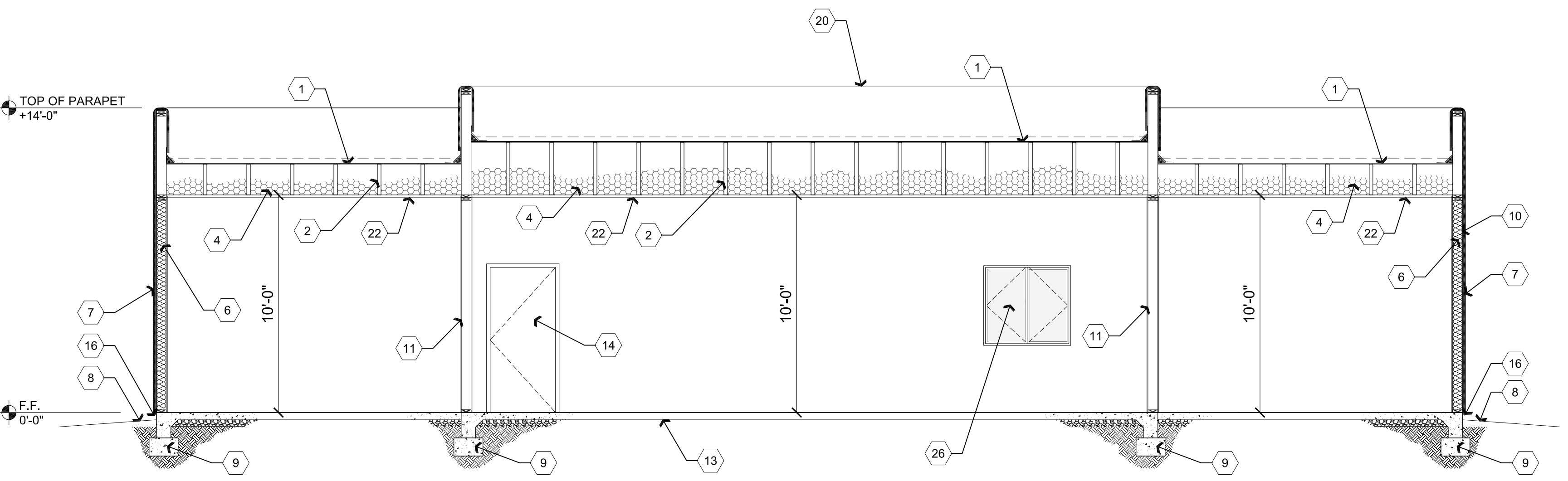
**DRAWING:** BUILDING and WALL SECTIONS  
**PROJECT:** Lembe-Mellul Workshop  
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**A4.0**

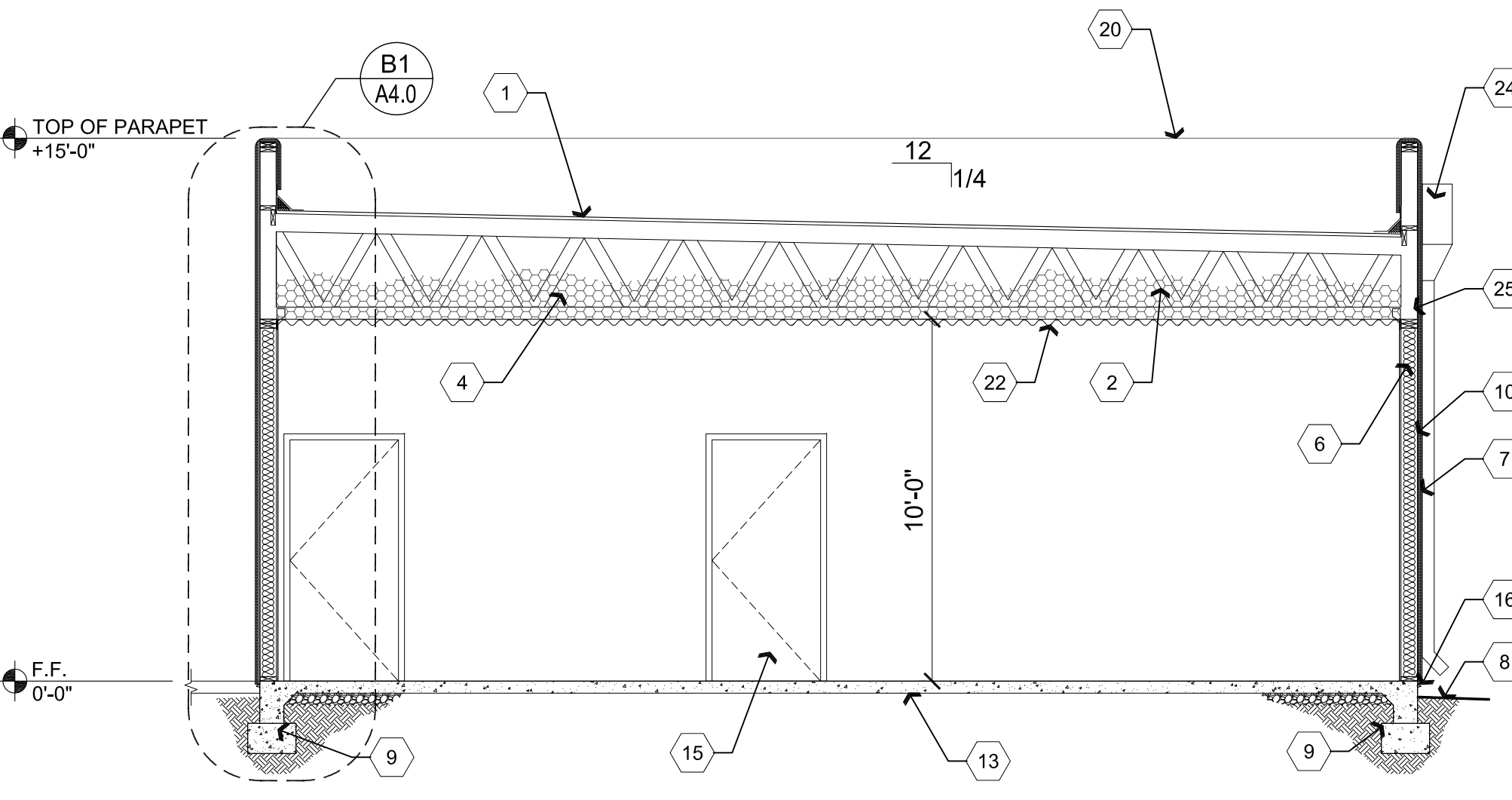
## Descriptive Keynotes

1. PROVIDE TPO SINGLE PLY MEMBRANE ROOFING OVER 1/2" PLYWOOD.
2. PROVIDE PRE-MANUFACTURED WOODEN ROOF TRUSS, REFER TO STRUCTURAL PLANS.
3. NOT USED.
4. PROVIDE BLOWN-IN INSULATION.
5. NOT USED.
6. PROVIDE R-19 UNFACED BATT INSULATION.
7. PROVIDE WESTERN ONE COAT STUCCO SYSTEM WITH SYNTHETIC FINISH OVER 1" POLYSTYRENE BOARD OVER WEATHER PROOF BARRIER.
8. APPROXIMATE FINISH GRADE.
9. PROVIDE CONCRETE FOOTING, REFER TO STRUCTURAL PLANS.
10. EXTERIOR WALL, REFER TO WALL TYPES PLAN FOR TYPE OF CONSTRUCTION.
11. INTERIOR WALL, REFER TO WALL TYPES PLAN.
12. STRUCTURAL BEAM, REFER TO STRUCTURAL PLANS.
13. CONCRETE SLAB OVER AGGREGATE BASE COURSE, REFER TO STRUCTURAL PLANS.
14. EXTERIOR DOOR, 3'-0"x6'-8" HOLLOW METAL.
15. INTERIOR DOOR, 3'-0"x6'-8" HOLLOW METAL.
16. PROVIDE STUCCO WEEP SCREED 1" BELOW TOP OF CONCRETE FLOOR SLAB.
17. PROVIDE 12" ROUND WOOD COLUMN. REFER TO STRUCTURAL PLANS.
18. PROVIDE 9'-0"x8'-0" OVERHEAD GARAGE DOOR.
19. NOT USED.
20. LINE OF PARAPET BEYOND.
21. ROOF JOIST. REFER TO STRUCTURAL PLANS.
22. CORRUGATED METAL CEILING.
23. CORRUGATED, 22 GAUGE, METAL ROOF PANEL OVER 1/2" SHEATHING. REFER TO STRUCTURAL PLANS.
24. SHEET METAL CONDUCTOR HEAD AND DOWNSPOUT.
25. 3" SCHEDULE 40 PVC DRAIN LINE.
26. PROVIDE 4'-0" x 3'-6" CASEMENT WINDOW.
27. PLASTER OVER METAL LATH.



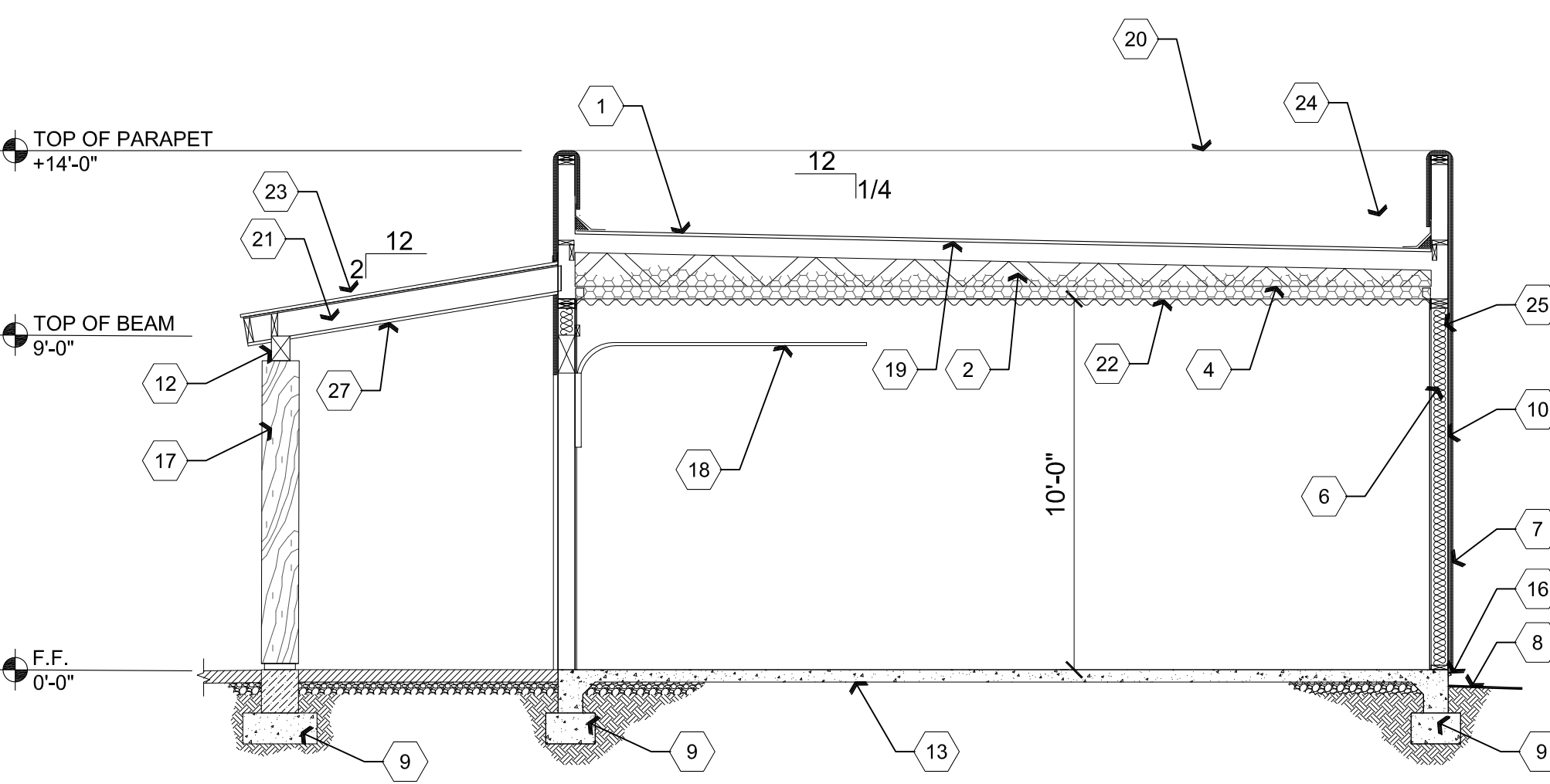
**A3 Building Section**

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



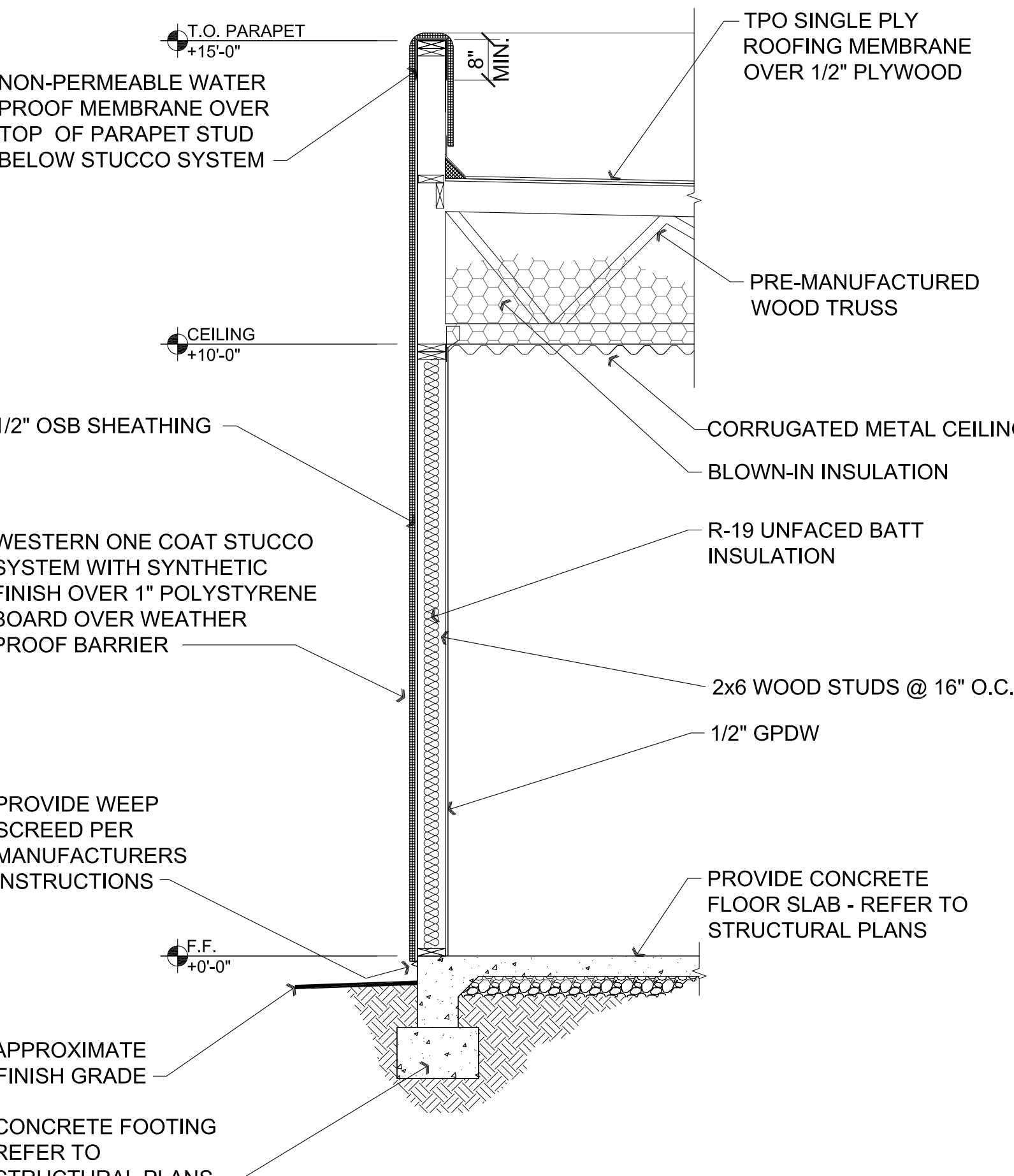
**A2 Building Section**

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



**A1 Building Section**

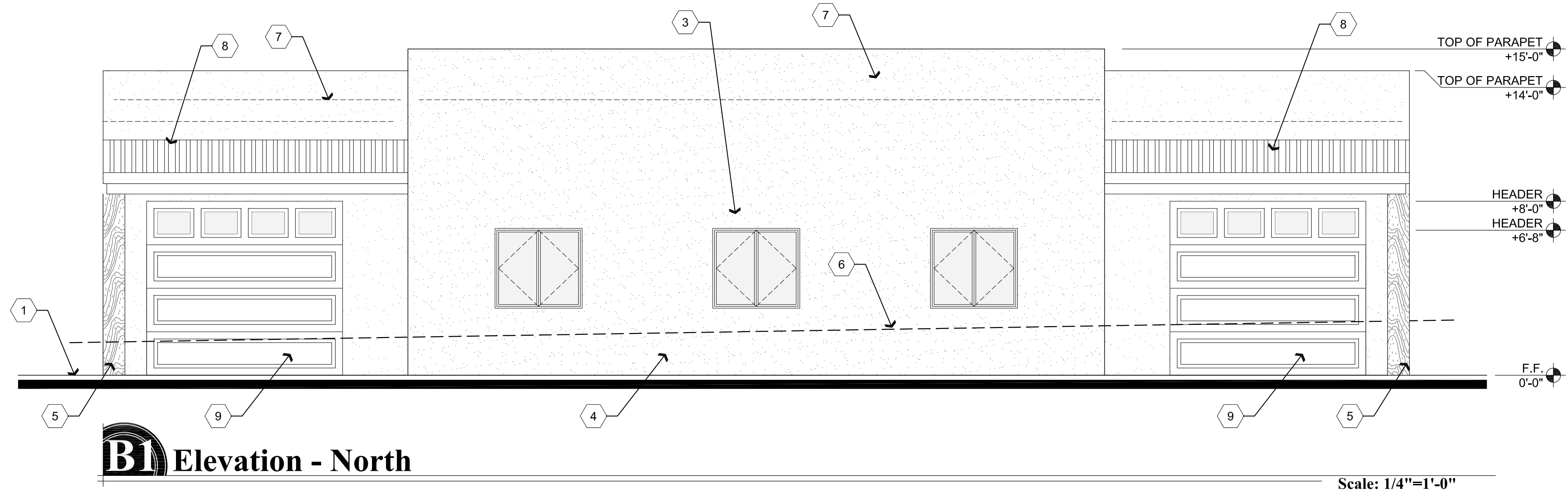
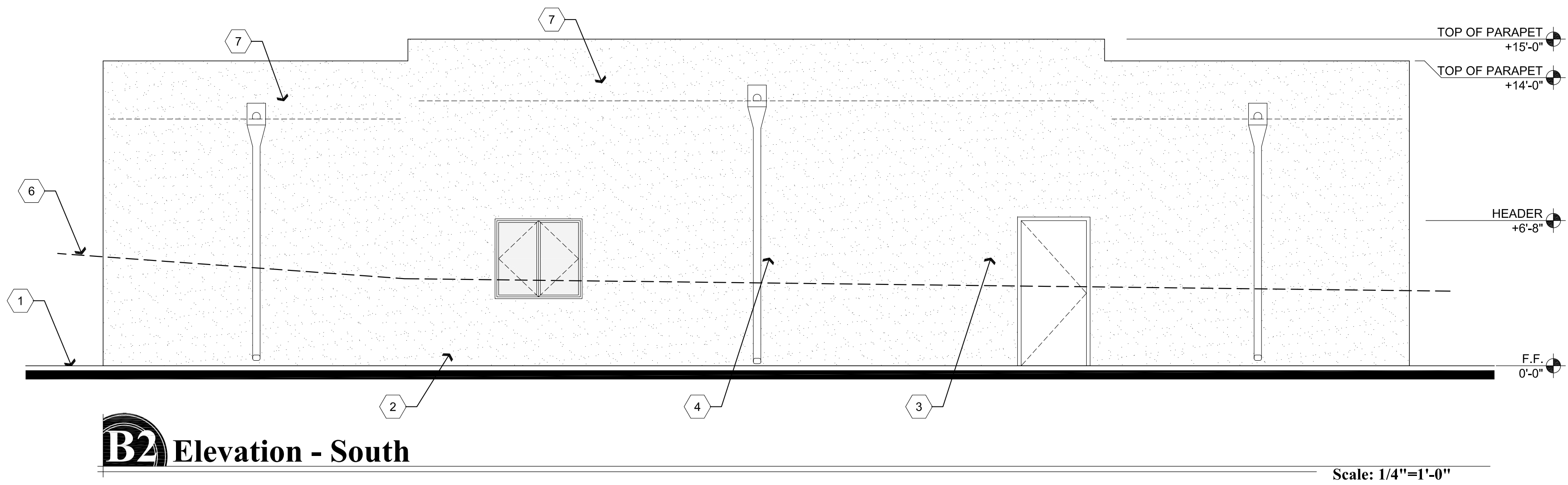
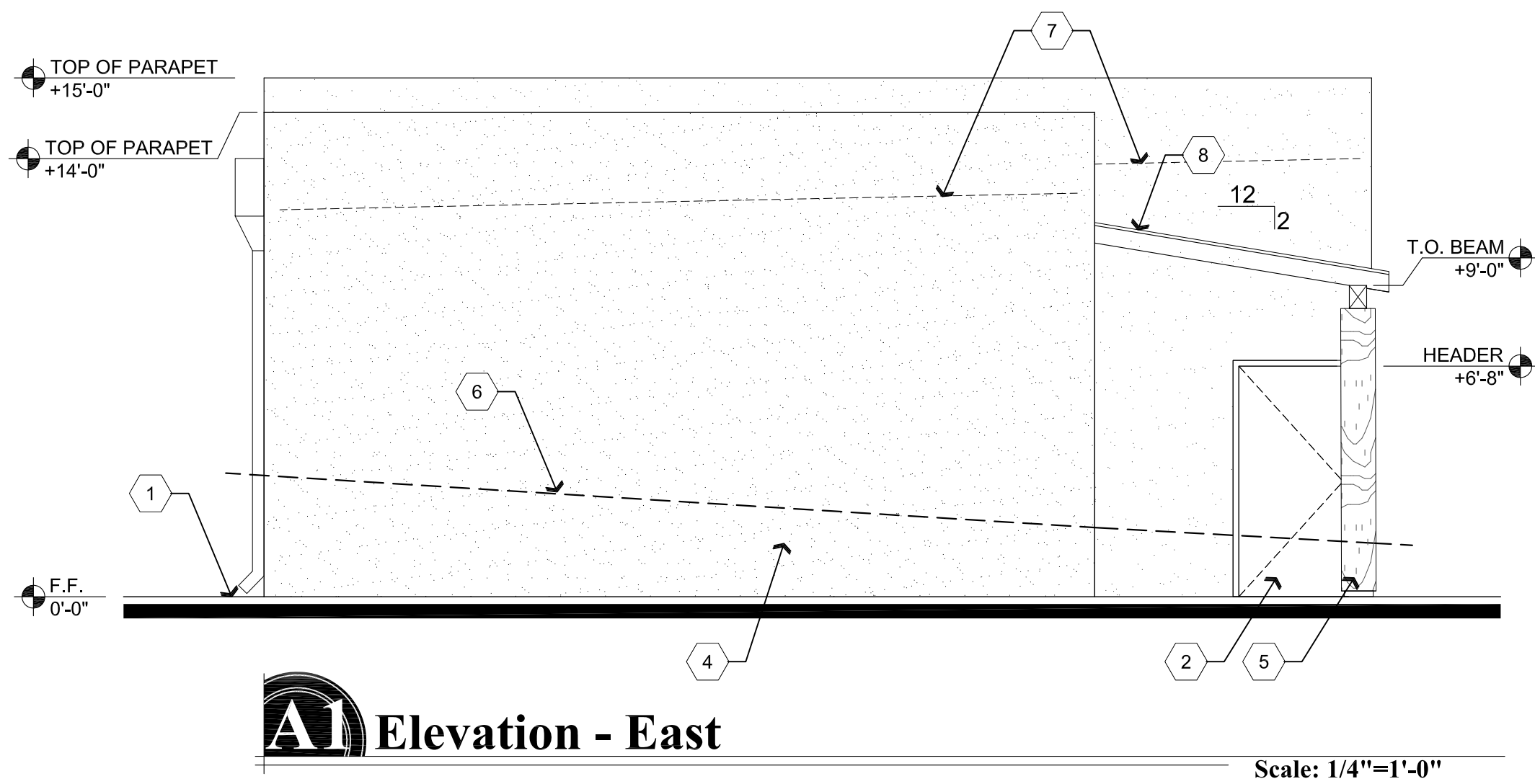
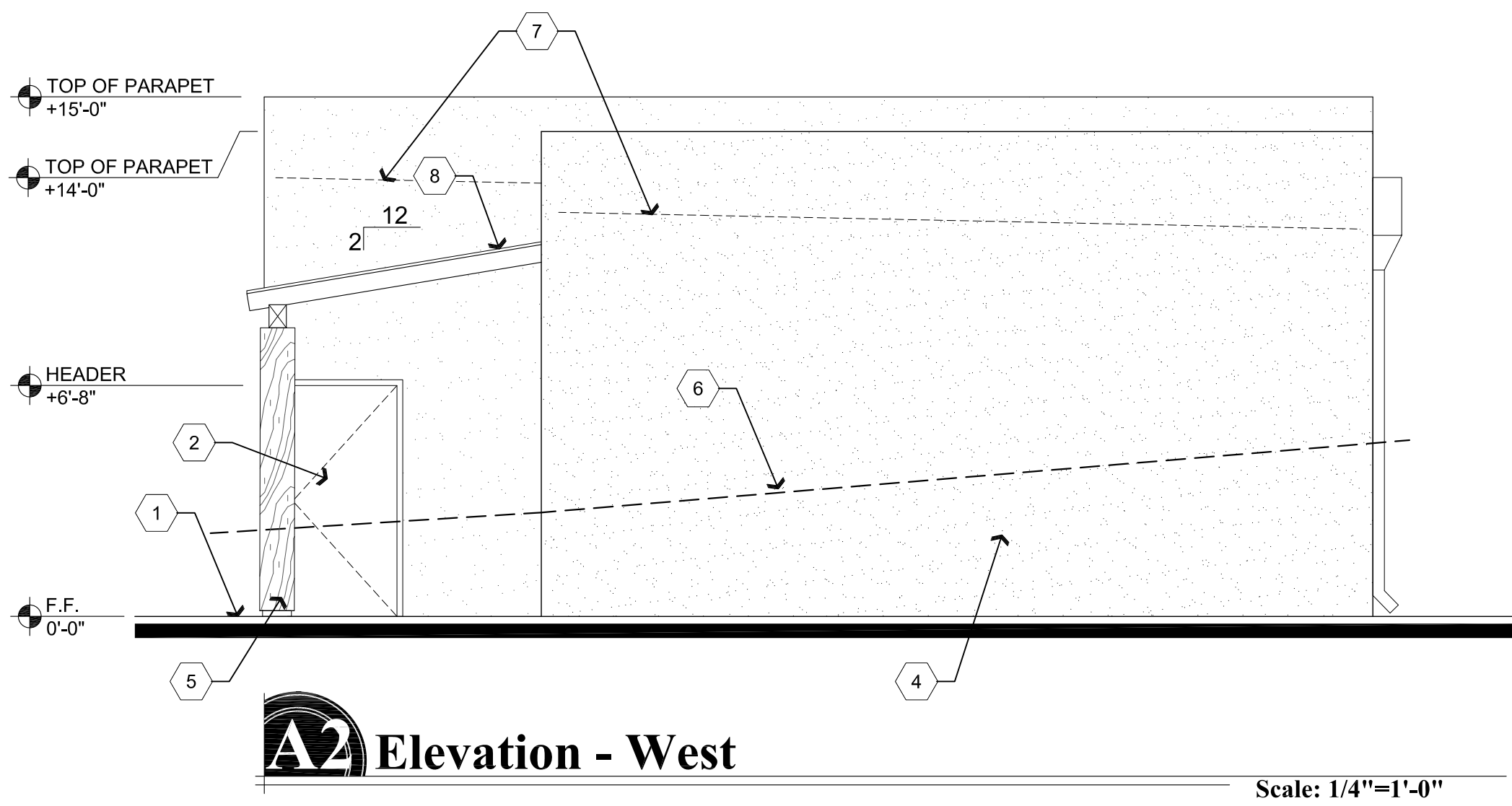
Scale: 1/4"=1'-0"



**B1 Wall Section**

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

Feb 01, 2016 - 3:21pm



### Descriptive Keynotes

1. FINISH GRADE TO SLOPE AWAY FROM STRUCTURE.
2. EXTERIOR DOOR, 3'-0"x6'-8" HOLLOW METAL.
3. PROVIDE 4'-0" x 3'-6" CASEMENT WINDOW.
4. PROVIDE WESTERN ONE COAT STUCCO SYSTEM WITH SYNTHETIC FINISH OVER 1" POLYSTYRENE OVER WEATHER PROOF BARRIER.
5. PROVIDE 12" ROUND WOOD COLUMNS. REFER TO STRUCTURAL PLANS.
6. EXISTING GROUND ELEVATION PRIOR TO GRADING OF THE SITE.
7. ROOF LINE BEYOND PARAPET.
8. CORRUGATED, 22 GAUGE, METAL ROOF OVER 1/2" SHEATHING. REFER TO STRUCTURAL PLANS.
9. 9'-0" x 8'-0" OVERHEAD DOOR.

REVISIONS	BY
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**ARCHITECTURE & PLANNING**

DRAWING: EXTERIOR ELEVATIONS

PROJECT: Lembe-Mellul Workshop  
12255 W. Slate Rd.  
Prescott, AZ

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

A4.1



GENERAL STRUCTURAL NOTES

(APPLY UNLESS NOTED OTHERWISE ON PLANS/DETAILS)

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

3. 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:	
GYPSUM BOARD SHEARWALL(S)	R = 2.0
PLYWOOD SHEARWALL(S)	R = 6.5

4. 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:

1. 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 FOLLOWS:

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"	± ½"
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 TO CEMENT REPLACED. NO FLY ASH ADDITIVES SHALL BE USED IN FLATWORK OR ARCHITECTURALLY 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.

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.

WOOD:

- SAWN LUMBER: FRAMING LUMBER SHALL COMPLY WITH THE LATEST EDITION OF THE GRADING RULES OF THE WESTERN WOOD PRODUCTS ASSOCIATION (WWPA) OR THE WEST COAST LUMBER INSPECTION BUREAU (WCLB). 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 1-95. 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 BE OF 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:	FELD ATTACHMENT:
WALLS	½" OR ¾"	2½	8d AT 6" O.C.	8d AT 12" O.C.
ROOF	½"	3¼	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 = 190 PSI, FC (PERPENDICULAR) = 650 PSI, E =1,800 KSI. ALL BEAMS SHALL BE FABRICATED USING WATERPROOF GLUE, FABRICATION AND HANDLING PER LATEST AITC AND WOLA 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 SPJICE 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 7" 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.

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:

- SPECIAL INSPECTION 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
EPOXY ANCHORS	YES	DURING INSTALLATION OF ANCHORS

REVISIONS	BY

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DRAWING:

GENERAL STRUCTURAL NOTES

PROJECT:

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ARCHITECTURE & PLANNING

REGISTERED ARCHITECT

W. Alan Kenson

DRAWING INDEX		
DETAILS	SHEET	DESCRIPTION
---	<b>S1</b>	GENERAL STRUCTURAL NOTES
T1-T9	<b>SL1</b>	TYPICAL DETAILS
---	<b>S2</b>	FOUNDATION PLAN
---	<b>S3</b>	FRAMING PLAN
101-104	<b>S4</b>	FOUNDATION DETAILS
201-208	<b>S5</b>	FRAMING DETAILS
JOB NO.: 2015-0289    PROJECT MANAGER: AGK    CAD OPERATOR: MJS		
<div><div><div><b>FROST</b></div><div>STRUCTURAL ENGINEERING</div></div><div>1678 Oaklawn Drive, Suite C Prescott, Arizona 86305 Info@frost-structural.com</div><div>phone: 928.776.4757 fax: 928.776.4931</div></div>		

DRAWN BY MJS
CHECKED BY AGK
DATE 2/1/16
SCALE AS NOTED
JOB NO. 2015-0289
SHEET <b>S1</b>



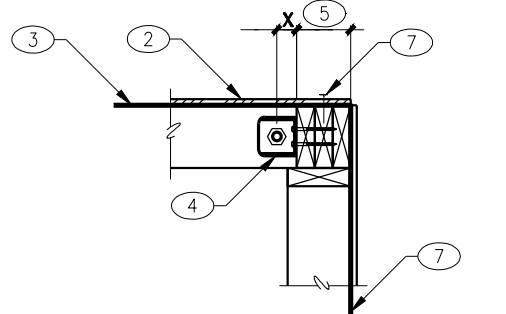
HOLDOWN	X
HDU2, HDU4, HDU8, HDU11	1-1/4"
HDU14	1-9/16"
PHD2, PHD5, PHD6	1-3/8"
HTT16	1-3/8"
HTT22	
MTT28B	1-1/2"
HDH08	1-1/4"
HHO11, HHO14	1-1/2"

NOTES:

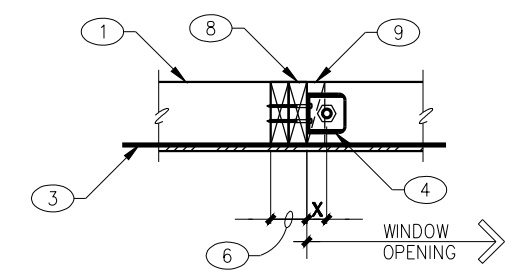
ALL CONDITIONS MAY NOT BE SHOWN. FOR CONDITIONS NOT SHOWN, USE THESE DETAILS AS A GUIDE. SOME LARGER HOLDOWNS REQUIRE 6X6 POSTS. SEE PLANS AND SCHEDULES. WHERE MULTIPLE TRIMMER STUDS OR KING STUDS OCCUR, MAKE ADJUSTMENTS AS REQUIRED.

KEY NOTES:

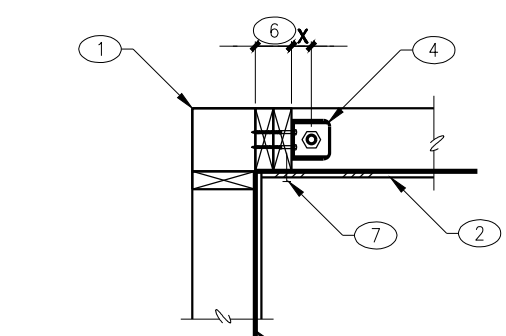
- WOOD STUD WALL.
- SHEARWALL SHEATHING.
- EDGE OF FOUNDATION.
- SIMPSON HD TYPE HOLDOWN WITH SCREWS.
- SHEARWALL END POST (3-STUDS) TYPICAL, EXCEPT AT HDU11, HDU14, HHO11, AND HHO14 WHERE A 6X6 POST IS REQUIRED.
- SHEARWALL END POST (2-STUDS).
- SHEARWALL EDGE NAILING. TRIMMER STUD TO SUPPORT HEADER.
- BLOCK TO SUPPORT WINDOW SILL.
- 6X6 WOOD POST.
- (25)-SIMPSON SDS X"X4.5" LONG WOOD SCREWS STAGGERED.
- (25)-SIMPSON SDS X"X6" LONG WOOD SCREWS STAGGERED.
- SIMPSON HD TYPE HOLDOWN WITH 6" LONG SIMPSON SDS X" SCREWS.



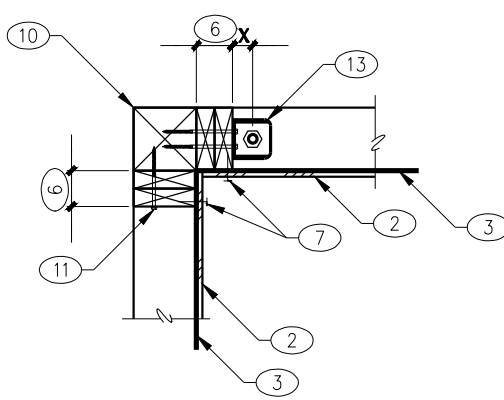
(1) SHEARWALL  
(1) "HD" HOLDOWN W/SCREWS  
AT EXTERIOR CORNER



"HD" HOLDOWN W/SCREWS  
WINDOW JAMB



(1) SHEARWALL  
(1) "HD" HOLDOWN W/SCREWS  
AT RE-ENTRANT CORNER

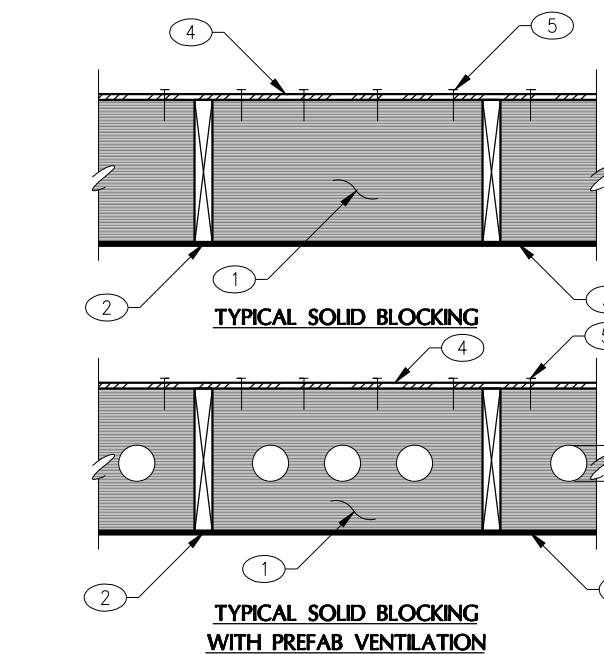


(2) SHEARWALLS  
(1) "HD" HOLDOWN W/SCREWS  
AT RE-ENTRANT CORNER

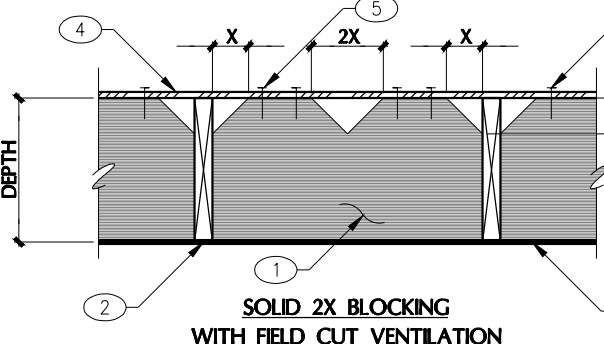
PLAN VIEW - HOLDOWN LOCATIONS/SHEARWALL END POSTS  
'HD' TYPE HOLDOWNS USING SCREWS

W0802

NO SCALE



TYPICAL SOLID BLOCKING



TYPICAL SOLID BLOCKING  
WITH PREFAB VENTILATION



SOLID 2X BLOCKING  
WITH FIELD CUT VENTILATION

W0502

NO SCALE

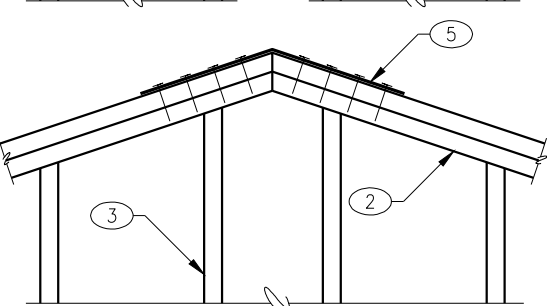
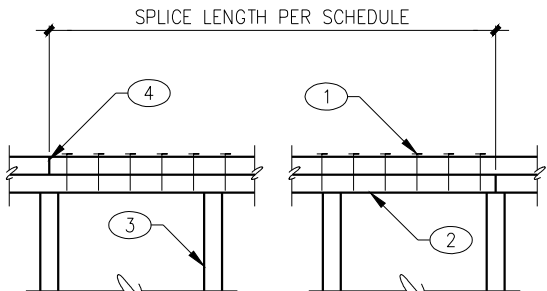
KEY NOTES:

- SOLID BLOCKING TO BE TIGHT AGAINST PLYWOOD.
- PREFAB WOOD TRUSS OR WOOD JOIST.
- TOP OF WOOD PLATE OR BEAM AS OCCURS.
- PLYWOOD SHEATHING. EDGE NAILING.

DEPTH	X
6"	2"
8"	2-5"
10"	3"
12"	3"

NOTES:

- FOR CONSTRUCTION BELOW BLOCKING, SEE PLAN AND DETAILS. BLOCKING IS CONTINUOUS.
- INDIVIDUAL SHEAR BLOCKS MAY BE OMITTED EVERY 5TH BLOCK.



LENGTH OF WALL (BETWEEN CORNERS)	SPICE LENGTH MINIMUM	NAILS ALONG SPICE LENGTH
OVER 30'	4'-0"	18-16d
OVER 20'	2'-8"	10-16d
OVER 10'	1'-4"	6-16d
LESS THAN 10'	1'-4"	4-16d

ELEVATION - TYPICAL TOP PLATE SPICE

W09

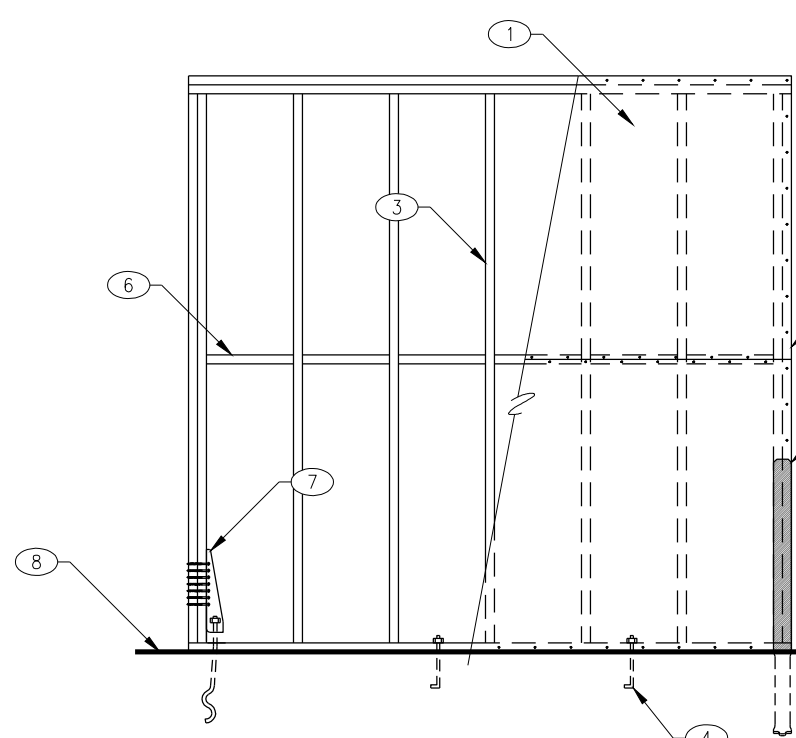
NO SCALE

KEY NOTES:

- NAILS BETWEEN SPICE LOCATION PER SCHEDULE - STAGGERED.
- DOUBLE 2X TOP PLATE.
- WOOD STUD WALL.
- SPICE OVER STUD.
- SIMPSON S16224 STRAP AT LOCATIONS WHERE PLATES CAN NOT BE SPICED.

NOTE:

DO NOT SPICE TOP PLATES WITHIN 6'-0" OF ENDS OF PLYWOOD SHEAR WALLS. THIS DETAIL REQUIRED AT ALL EXTERIOR WALLS AND OVER SHEAR WALLS - NOT REQUIRED AT INTERIOR NON-SHEAR WALLS.



ELEVATION-TYPICAL 1-STORY SHEARWALL

W0602

NO SCALE

CONNECTION	NAILING	TYPE
JOIST OR TRUSS BEARING ON SILL OR GIRDER BRIDGING TO JOIST	(3)-8d	TOENAIL
SOLE PLATE 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)-16d	FACE NAIL
RAFTER OR TRUSS TO PLATE	(3)-8d	TOENAIL
1" BRACE TO EACH STUD AND PLATE	(2)-8d	FACE NAIL
BUILT-UP CORNER STUDS	16d AT 24" O.C.	-NA-

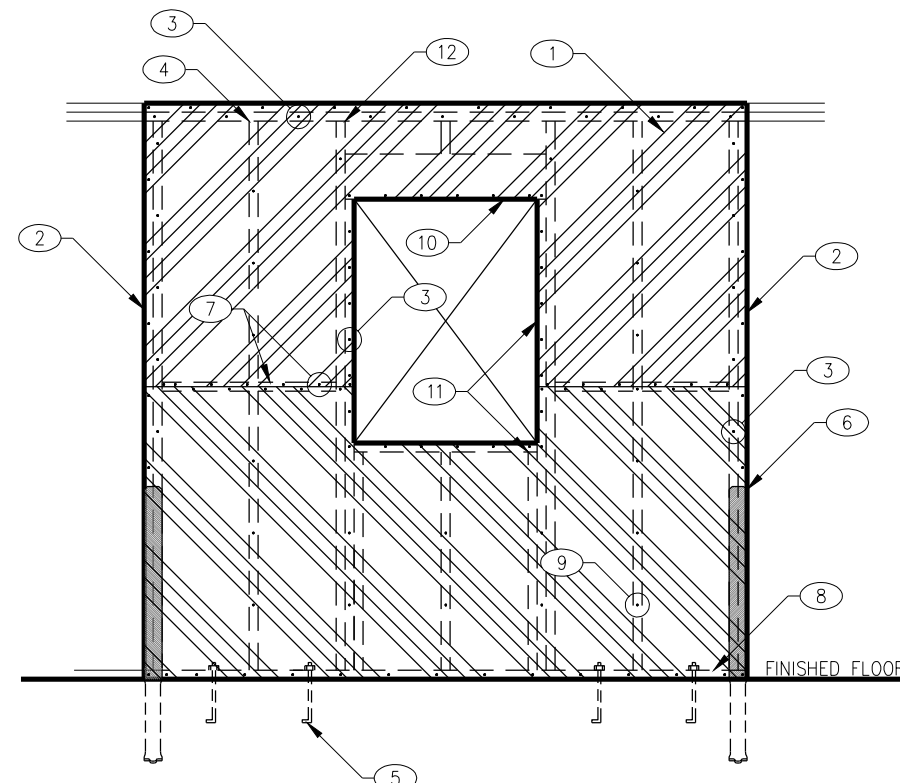
NOTE:

- 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.

MINIMUM NAILING SCHEDULE - UNLESS NOTED OTHERWISE

W01-2012

NO SCALE



KEY NOTES:

- SHEATHING MATERIAL.
- SHEARWALL END POST (DOUBLE STUD AT HOLDOWN UNLESS).
- EDGE NAILING AT ALL SHEATHING PANEL EDGES - STAGGER NAILS AT DOUBLE STUD END POSTS.
- FULL HEIGHT WOOD STUDS.
- ANCHOR BOLTS TO FOUNDATION OR NAILS TO LOWER FRAMING PER SHEARWALL SCHEDULE.
- SIMPSON STRAP TYPE HOLDOWN.
- SOLID BLOCKING AND EDGE NAILING REQUIRED AT PLYWOOD SHEET EDGES.
- CONTINUOUS 2X SOLE PLATE.
- FIELD NAILING AWAY FROM PANEL EDGES.
- WOOD HEADER.
- TRIMMER STUD UNDER HEADER AND SILL. PROVIDE ADDITIONAL TRIMMER STUDS WHERE INDICATED ON PLANS.
- FULL HEIGHT KING STUD.
- PROVIDE ADDITIONAL KING STUDS WHERE INDICATED ON PLANS.

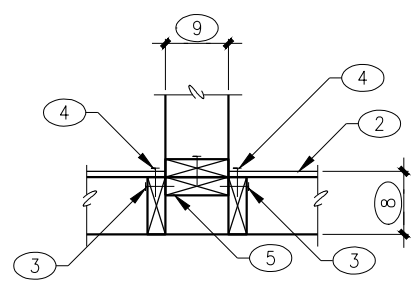
ELEVATION-PERFORATED SHEARWALL AT FOUNDATION

W0604

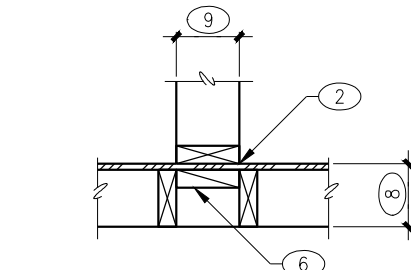
NO SCALE

KEY NOTES:

- WOOD STUD WALL.
- PLYWOOD SHEATHING SHALL BE CONTINUOUS THRU WALL INTERSECTIONS. GYPSUM SHEATHING MAY BE DISCONTINUOUS.
- 16d FACENAIL AT 16" O.C.
- EDGE NAILING.
- FULL HEIGHT STUD.
- (3)-2X BLOCKS 18" LONG.
- (2)-16d FACENAILS EACH SIDE OF EACH BLOCK.
- PLYWOOD OR GYPSUM SHEARWALL.
- INTERSECTING WALL.



INTERSECTING WALLS  
GYPSUM SHEARWALLS

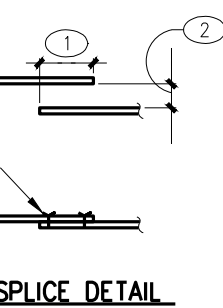


INTERSECTING WALLS  
PLYWOOD SHEARWALLS

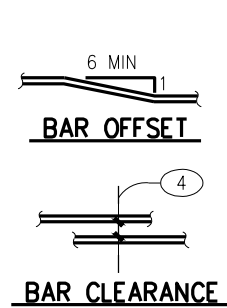
PLAN VIEW - SHEARWALL INTERSECTIONS

W0801

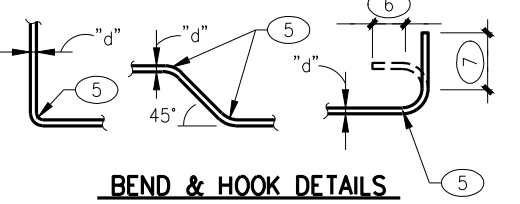
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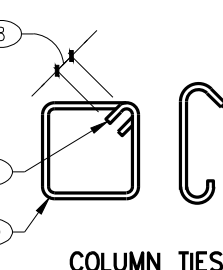
SPlice DETAIL



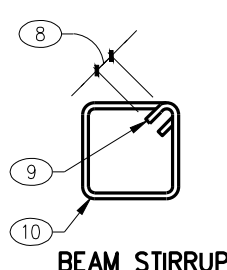
BAR OFFSET



BEND & HOOK DETAILS



COLUMN TIES

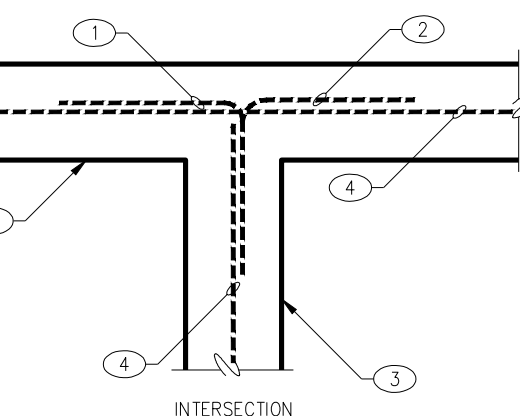


BEAM STIRRUPS

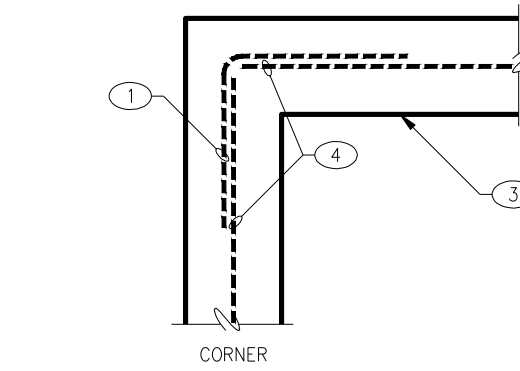
TYPICAL REINFORCING DETAILS

C01

NO SCALE



INTERSECTION



CORNER

PLAN - CORNER REINFORCING IN CONCRETE FOOTINGS  
AND/OR CONCRETE STEM WALLS

F02

NO SCALE

KEY NOTES:

- CORNER BARS SAME SIZE AND SPACING AS HORIZONTAL REINFORCING. MINIMUM LAP PER G.S.N.
- ALTERNATE DIRECTION OF BENDS.
- CONCRETE STEM WALL OR FOOTING.
- REINFORCING PER PLANS AND SCHEDULES.

REVISIONS	BY

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DRAWING: TYPICAL DETAILS T1-T9

PROJECT: Lembke-Mellul Workshop  
PRESCOTT, AZ 86305

DRAWN BY  
MJS

CHECKED BY  
AGK

DATE  
2/1/16

SCALE  
AS NOTED

JOB NO.  
2015-0289

SHEET

S1.1

TYPICAL DETAILS T1-T9

JOB NO.: 2015-0289 PROJECT MANAGER: AGK CAD OPERATOR: MJS

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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 3" O.C.
	15 GA STAPLE AT 4" O.C.
	14 GA STAPLE AT 5" 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 2X 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.	

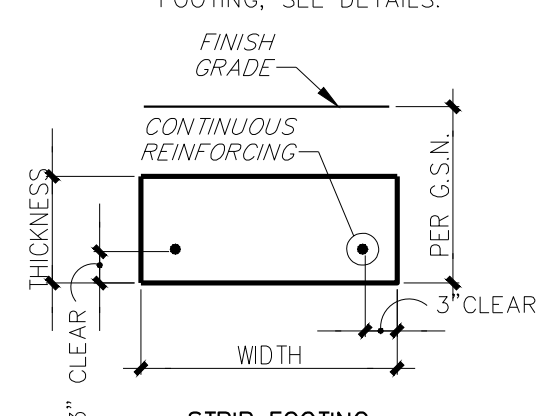
SCH0903

SHEARWALL SCHEDULE (ALL EXTERIOR WALLS ARE $\Delta$ 5 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 10 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 ( $\pm$ 3").				
MARK	SHEATHING MATERIAL	EDGE NAILING	FIELD NAILING	BOTTOM PLATE ATTACHMENT
$\Delta$ 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.
$\Delta$ 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.
$\Delta$ 3 L=P.P.	$\Delta$ 1 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.
$\Delta$ 4 L=P.P.	$\Delta$ 1 ONE SIDE $\Delta$ 2 OTHER SIDE	SEE ABOVE	SEE ABOVE	CONCRETE: 1/2" DIA. A.B. AT 36" O.C. WOOD: 16d STAGGERED AT 6" O.C.
$\Delta$ 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.

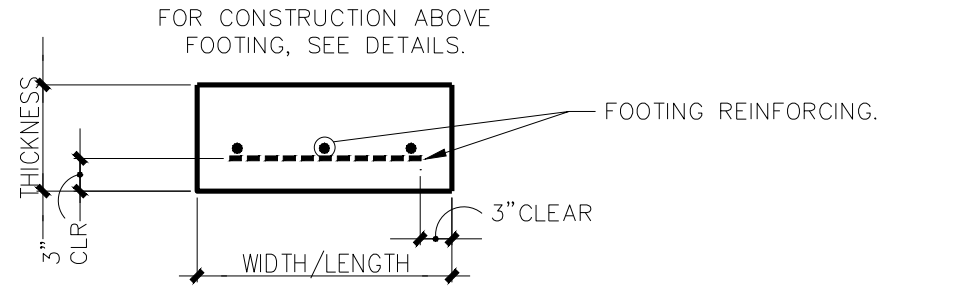
SCH0901

PERFORATED SHEARWALL TYPES				
MARK	SHEATHING MATERIAL	EDGE NAILING	FIELD NAILING	BOTTOM PLATE ATTACHMENT
$\Delta$ 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. ONE TRIMMER/ONE KING STUD EACH SIDE OF EACH OPENING. 7. BLOCK ALL PANEL EDGES, EDGE NAIL SHEATHING AT BLOCKED EDGES. 8. PLYWOOD SHEATHING SHALL CONTINUE ABOVE AND BELOW OPENING.				

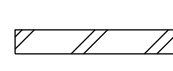
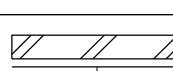
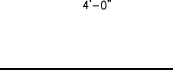
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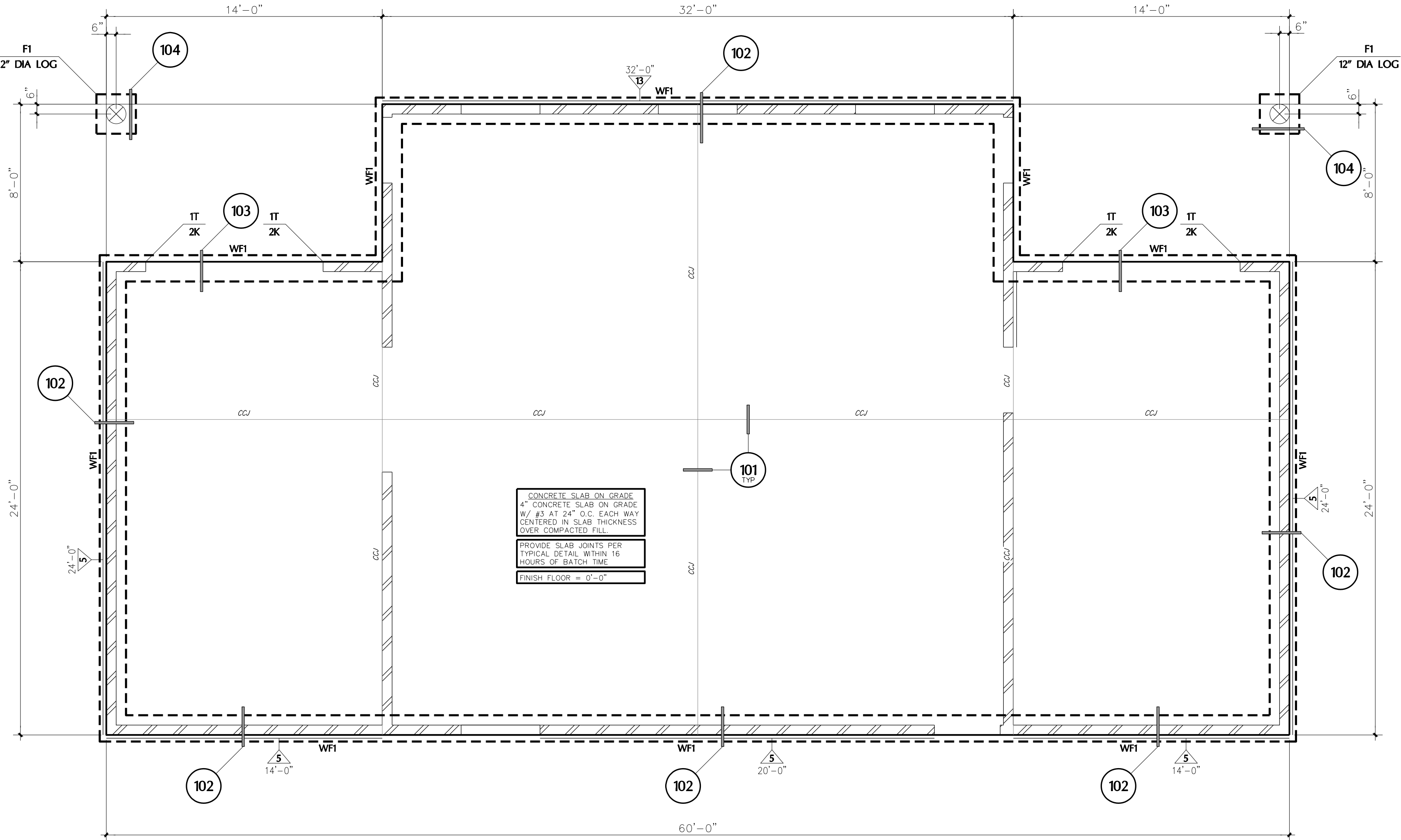
WALL FOOTING (WF) SCHEDULE			
FOR CONSTRUCTION ABOVE FOOTING, SEE DETAILS. 			
MARK	DIMENSIONS		FOOTING TYPE
	WIDTH	HEIGHT OR THICKNESS	
WF1	16"	10"	(2) #4 CONT. [STRIP FOOTING]

SCH01

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	---

SCH02

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. HORIZONTAL #4 AT 48" O.C. VERTICAL CENTERED IN WALL
AS SEEN ON PLANS	INDICATES:  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.)  SHEARWALL. SEE SHEARWALL SCHEDULE FOR WALL SHEATHING AND NAILING.
FOUNDATION PLAN NOTES	
1. VERIFY ALL DIMENSIONS WITH ALL ARCHITECTURAL DRAWINGS. 2. THE DEPTH OF FOOTING DIMENSION INDICATED IN THE O.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. $\Delta$ 1 $\Delta$ 2 - AS SHOWN ON PLAN INDICATES A SHEARWALL HOLDOWN. SEE HOLDOWN SCHEDULES AND DETAILS FOR ADDITIONAL INFORMATION. 6. CCJ - AS SHOWN ON PLAN INDICATES LOCATION OF EITHER A KEVED OR A SAW CUT CONTROL JOINT IN THE SLAB ON GRADE AT CONTRACTOR'S OPTION. SEE GENERAL STRUCTURAL NOTES AND DETAIL 101. 7. VERIFY EXACT SIZE AND LOCATION OF DEPRESSED AND/OR RAISED SLABS WITH ARCHITECTURAL DRAWINGS. 8. FOR SIDEWALK AND LANDING LOCATIONS, SEE ARCHITECTURAL DRAWINGS.	

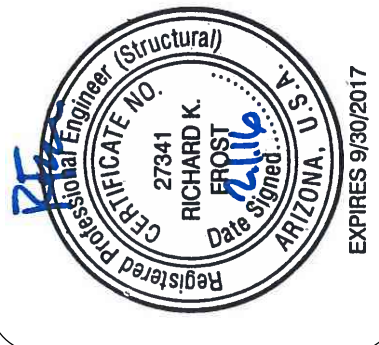


## FOUNDATION PLAN

SCALE:

1/4" = 1'-0"

LOCATION OF DETAILS		
DETAILS	SHEET	DESCRIPTION
---	S1	GENERAL STRUCTURAL NOTES
T1-T9	S11	TYPICAL DETAILS
101-104	S4	FOUNDATION DETAILS
201-208	S5	FRAMING DETAILS
JOB NO.: 2015-0289 PROJECT MANAGER: AGK CAD OPERATOR: MJS		
FROST STRUCTURAL ENGINEERING 1678 Oaklawn Drive, Suite C Prescott, Arizona 86305 phone: 928.776.4757 fax: 928.776.4931 info@frost-structural.com		

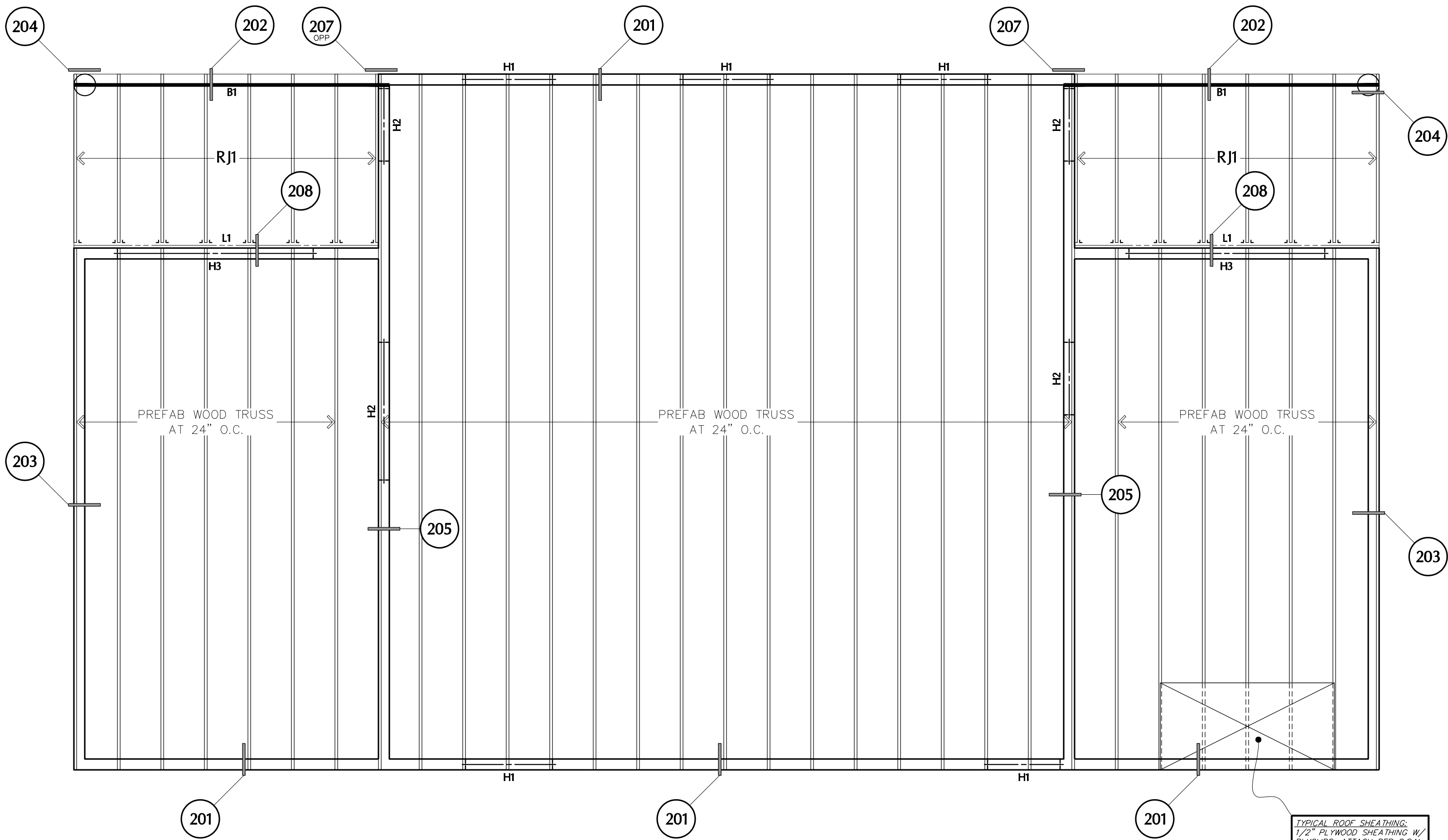
REVISIONS	BY
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ARCHITECTURE & PLANNING	

DRAWING: FOUNDATION PLAN

PROJECT: Lembe-Mellul Workshop  
PRESCOTT, AZ 86305

DRAWN BY MJS
CHECKED BY AGK
DATE 2/1/16
SCALE AS NOTED
JOB NO. 2015-0289
SHEET S2



ROOF FRAMING PLAN

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

ROOF JOIST (RJ) SCHEDULE		
MARK	SIZE	REMARKS
RJ1	2X6 AT 24" O.C.	---

SCH1302

BEAM (B) SCHEDULE		
MARK	SIZE	CAMBER
B1	6X8	.

SCH10

HEADER (H) SCHEDULE		
MARK	SIZE	REMARKS
H1	4X6	OR (2) 2X8
H2	4X6	OR (2) 2X6
H3	4X12	---

SCH12

LEDGER (L) SCHEDULE		
NOTES: 1. ALL LEDGERS SHALL HAVE MINIMUM OF 2 CONNECTIONS PER LEDGER. 2. CONNECTIONS SHALL BE LOCATED NOT LESS THAN 6" NOR MORE THAN 12" FROM END OF LEDGER OR AT LEDGER SPLICE.		
MARK	SIZE	CONNECTION
L1	2X6	(3) #10X3.5" SCREWS AT 16" O.C.

SCH0401

WALL SCHEDULE

NOTE: -SEE PLAN, SCHEDULES, DETAILS AND GENERAL STRUCTURAL NOTES FOR ADDITIONAL INFORMATION.

AS SHOWN ON PLANS	INDICATES-
	STRUCTURAL WALL BELOW (BEARING WALL, SHEARWALL, OR EXTERIOR WALL)
	PARAPET WALL

ROOF FRAMING PLAN NOTES

1. VERIFY ALL DIMENSIONS WITH ALL ARCHITECTURAL DRAWINGS.
2. ALL SCHEDULED MARK DESIGNATIONS MAY NOT NECESSARILY BE FOUND ON THIS PLAN. SCHEDULES ARE TYPICAL TO THIS PROJECT.
3. B1, B2, ETC. - AS SHOWN ON PLAN INDICATES A BEAM. SEE BEAM SCHEDULE FOR ADDITIONAL INFORMATION.
4. RJ1, RJ2, ETC. - AS SHOWN ON PLAN INDICATES ROOF JOISTS. SEE ROOF JOIST SCHEDULE FOR ADDITIONAL INFORMATION.
5. H1, H2, ETC. - AS SHOWN ON PLAN INDICATES A HEADER. SEE HEADER SCHEDULE FOR ADDITIONAL INFORMATION.
6. L1, L2, ETC. - AS SHOWN ON PLAN INDICATES A LEDGER. SEE LEDGER SCHEDULE FOR ADDITIONAL INFORMATION.
7. FOR CLARITY, DETAILS MAY SHOW ONLY ONE SIDE OF FRAMING CONDITION.

REVISIONS	BY

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ARCHITECTURE & PLANNING

REGISTERED PROFESSIONAL ARCHITECT

DRAWING: ROOF FRAMING PLAN

PROJECT: Lembke-Mellul Workshop  
PRESCOTT, AZ 86305

LOCATION OF DETAILS

DETAILS	SHEET	DESCRIPTION
---	S1	GENERAL STRUCTURAL NOTES
T1-T9	S11	TYPICAL DETAILS
101-104	S4	FOUNDATION DETAILS
201-208	S5	FRAMING DETAILS

JOB NO.: 2015-0289

PROJECT MANAGER: AGK

CAD OPERATOR: MJS

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DRAWN BY  
MJS

CHECKED BY  
AGK

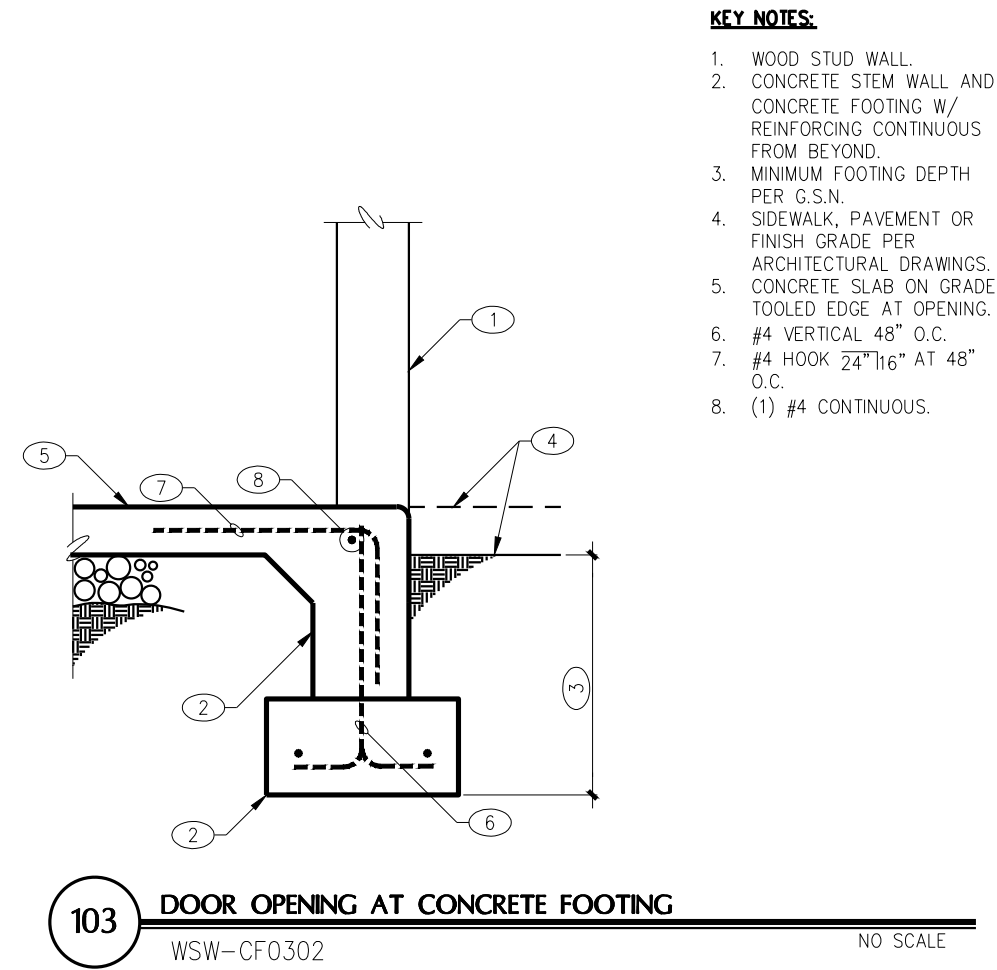
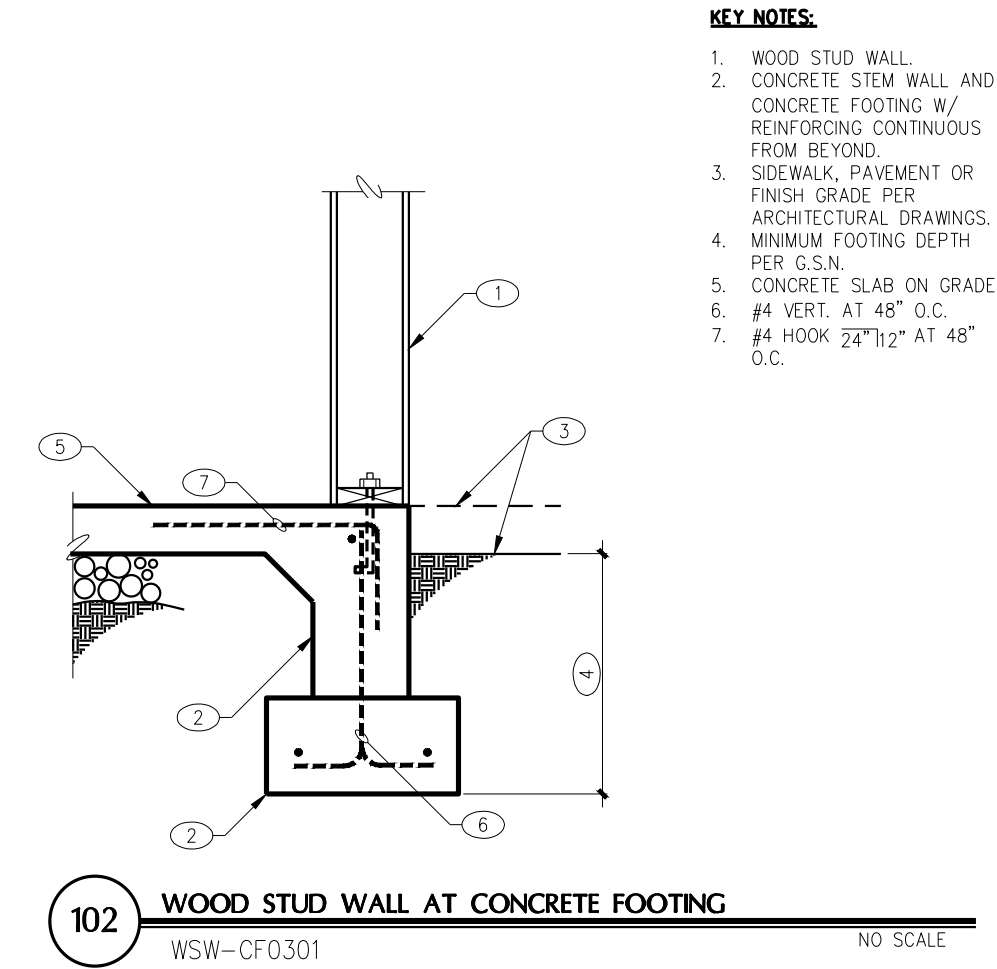
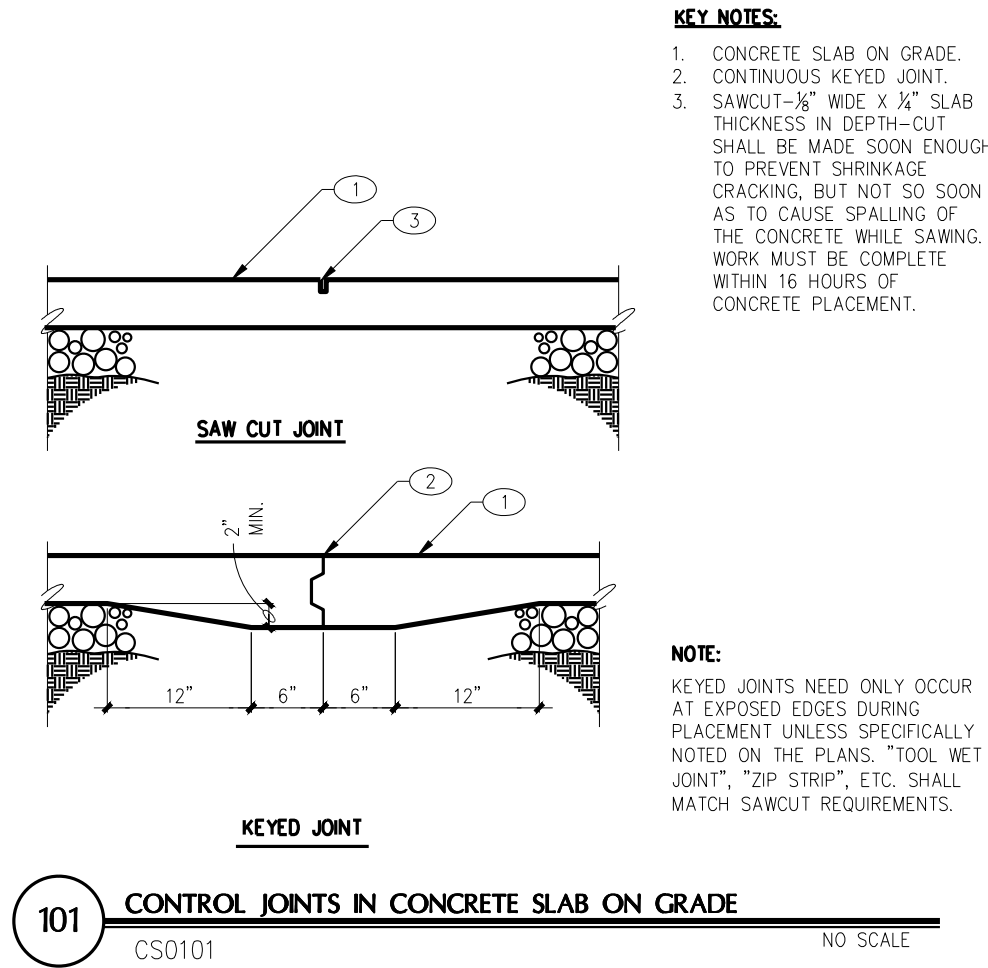
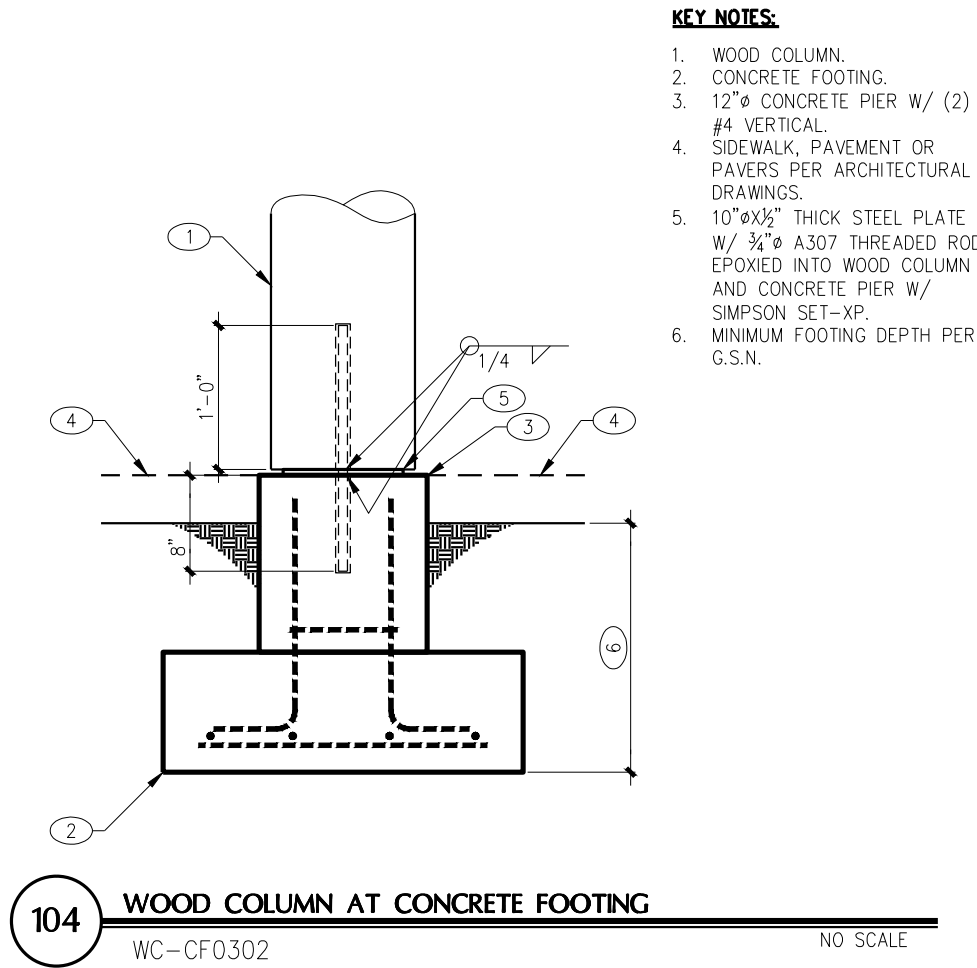
DATE  
2/1/16

SCALE  
AS NOTED


JOB NO.  
2015-0289

SHEET  
**S3**





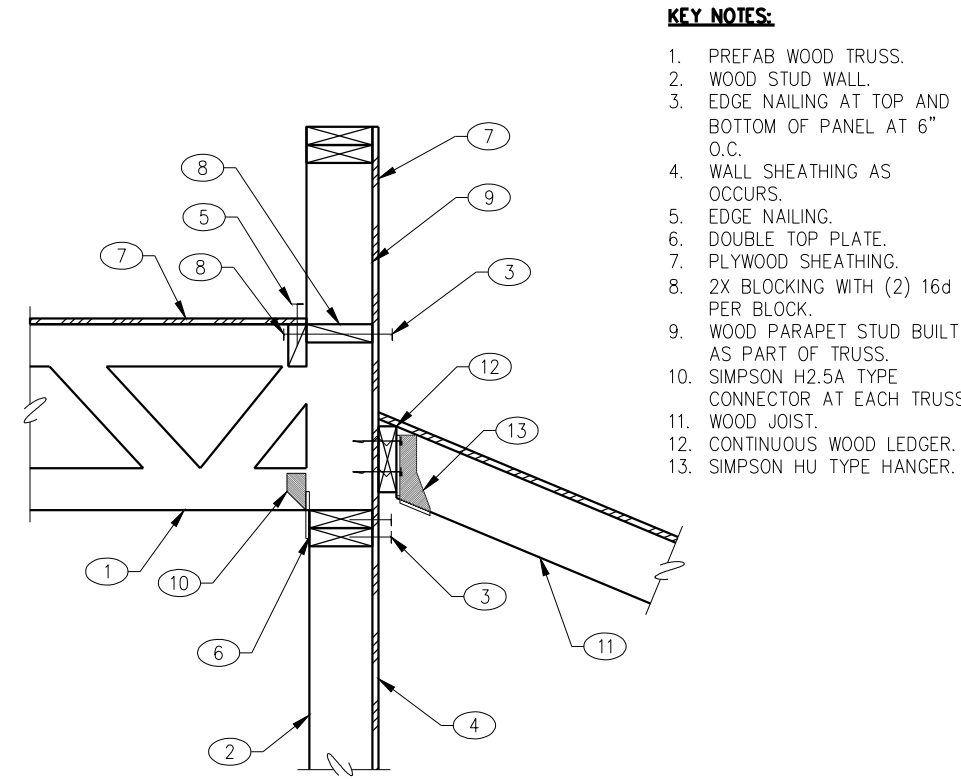
FOUNDATION DETAILS 101-104		
JOB NO.: 2015-0289	PROJECT MANAGER: AGK	CAD OPERATOR: MJS
<b>FROST STRUCTURAL ENGINEERING</b>		
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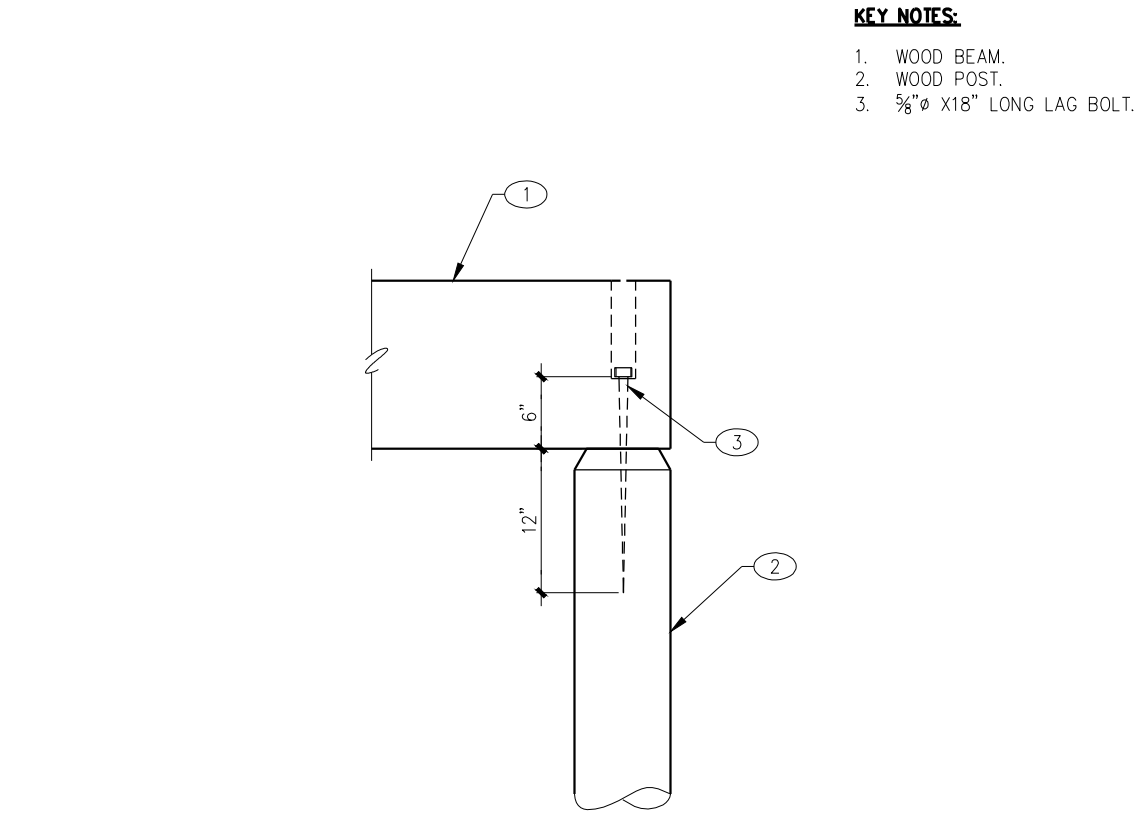
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<b>DRAWING:</b>	FOUNDATION DETAILS 101-104
<b>PROJECT:</b>	Lembke-Mellul Workshop PRESCOTT, AZ 86305

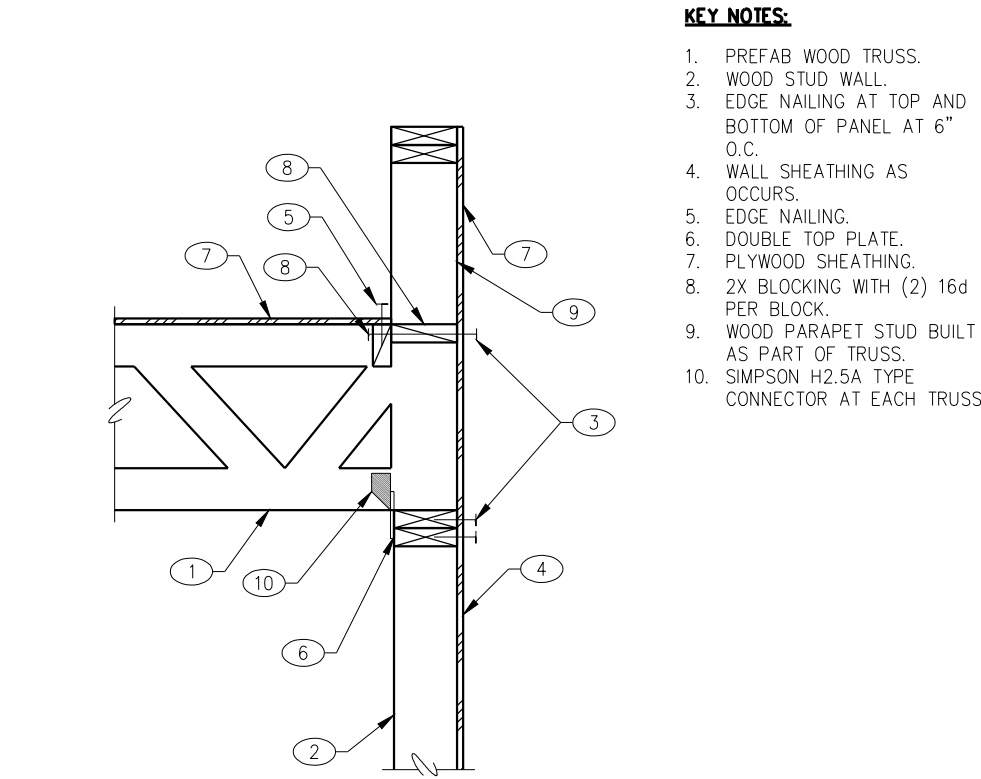
DRAWN BY MJS
CHECKED BY AGK
DATE 2/1/16
SCALE AS NOTED
JOB NO. 2015-0289
SHEET <b>S4</b>



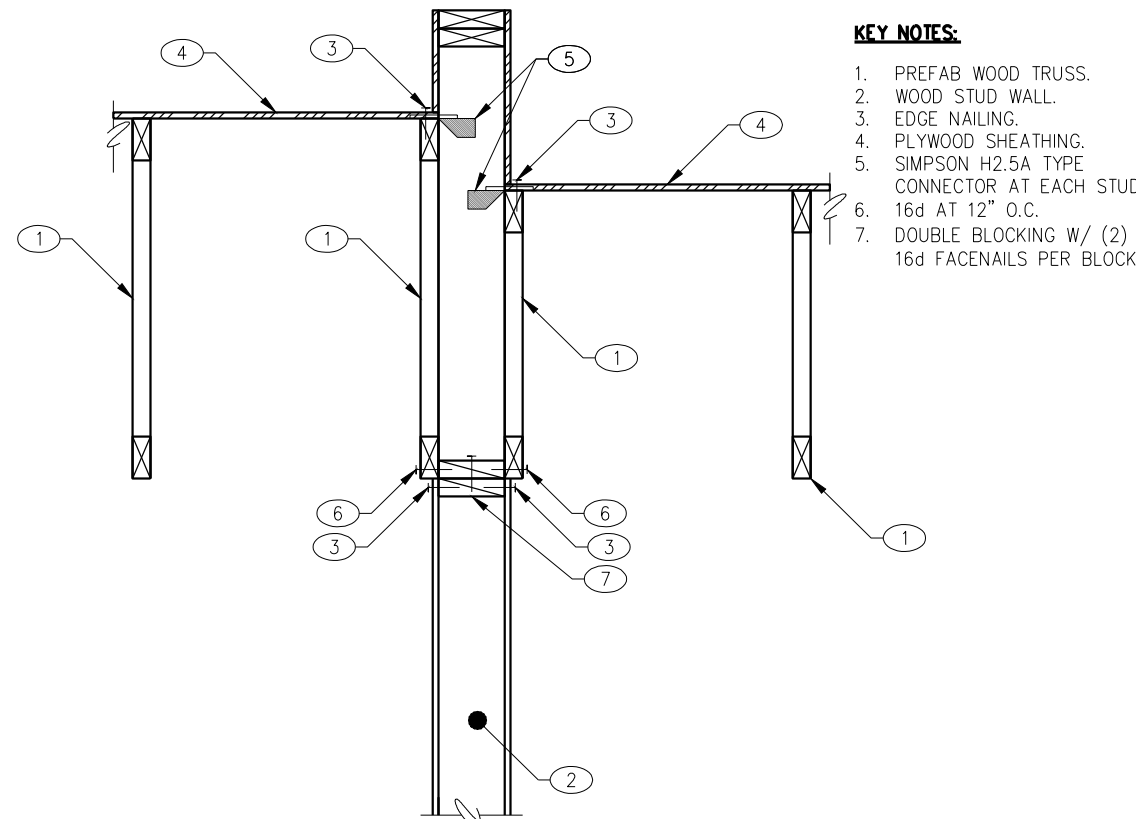
208 2x PREFAB WOOD TRUSS AT WOOD STUD WALL  
NO SCALE



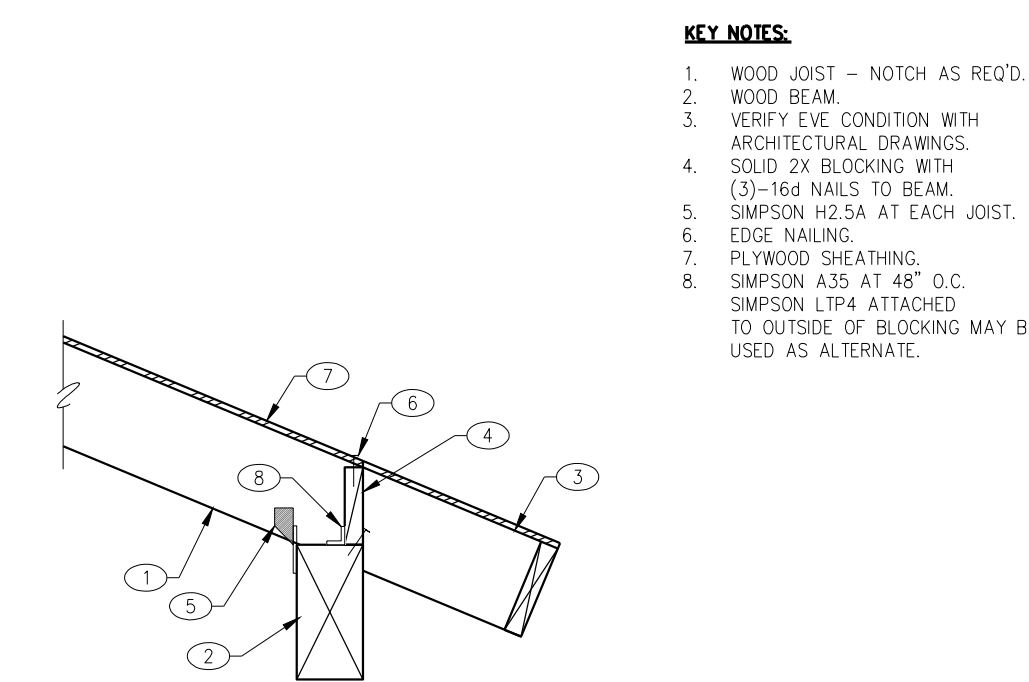
204 WOOD BEAM AT WOOD POST  
WB-WP0201  
NO SCALE



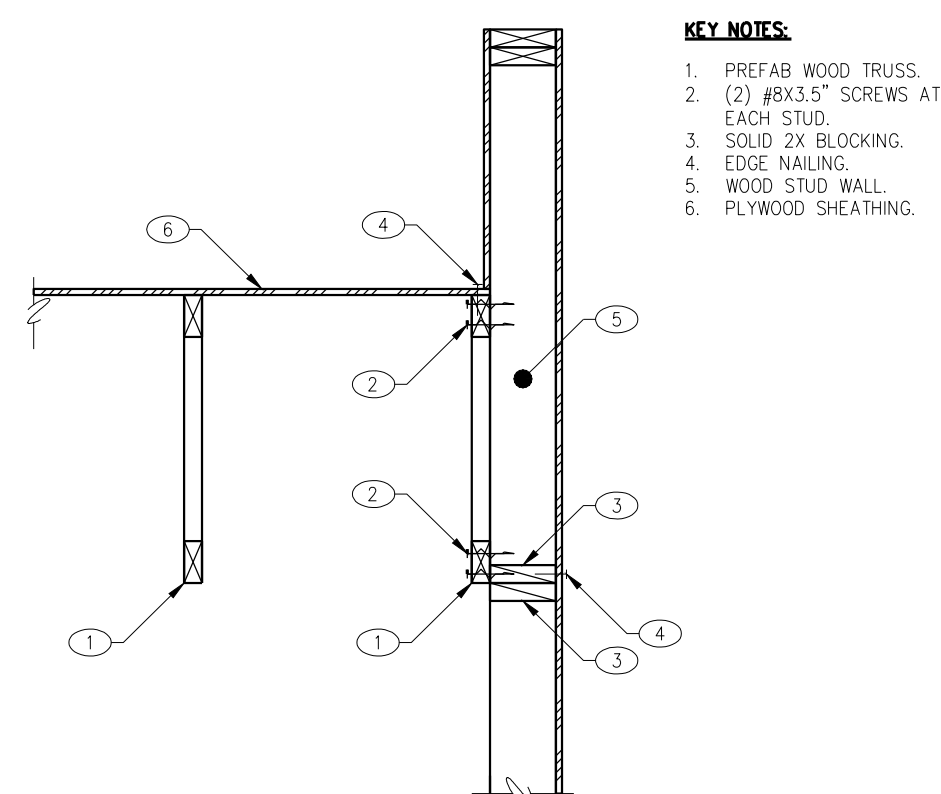
201 2x PREFAB WOOD TRUSS AT WOOD STUD WALL  
WT-WSW0201  
NO SCALE



205 PREFAB WOOD TRUSS AT WOOD STUD WALL  
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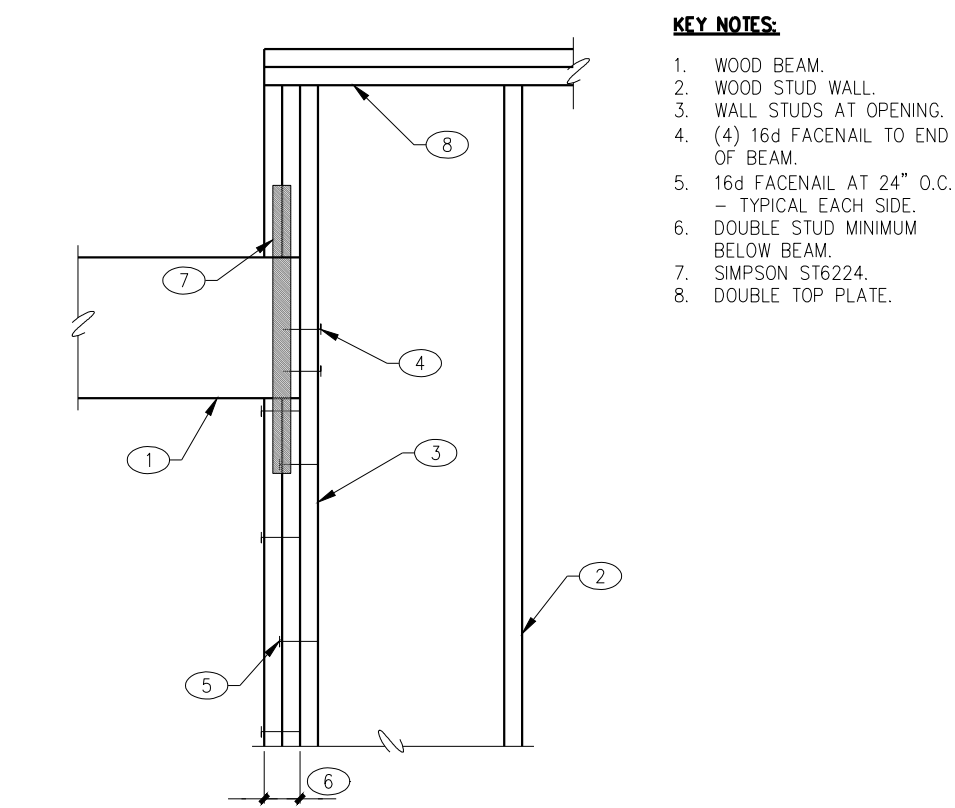


202 WOOD JOIST AT WOOD BEAM  
NO SCALE



203 WOOD TRUSS AT WOOD STUD WALL  
NO SCALE

206 NOT USED  
NO SCALE



207 WOOD BEAM AT WOOD STUD WALL  
WB-WP0614  
NO SCALE

FRAMING DETAILS 201-208		
JOB NO.: 2015-0289	PROJECT MANAGER: AGK	CAD OPERATOR: MJS
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<b>DRAWING:</b>	FRAMING DETAILS 201-208
<b>PROJECT:</b>	Lembke-Mellul Workshop PRESCOTT, AZ 86305

DRAWN BY MJS
CHECKED BY AGK
DATE 2/1/16
SCALE AS NOTED
JOB NO. 2015-0289
SHEET

S5