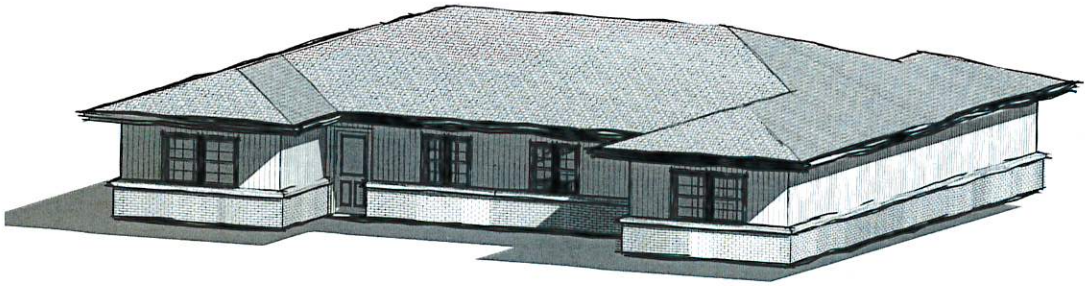
HOUSING AUTHORITY OF THE CHEROKEE NATION

BIRDTAIL ADDITION

CONSTRUCTION DOCUMENTS

04/27/2023



PROJECT CONTACTS

OWNER:

HOUSING AUTHORITY OF THE CHEROKEE NATION
PO BOX 18021
19492 HENSLEY DRIVE
TAHLEQUAH, OK 74465

ARCHITECT:

BLUE RIVER ARCHITECTS, LLC
309 SOUTH BOSTON AVENUE
SUITE 1493
TULSA, OKLAHOMA 74103
P(918) 811-5836

CONTRACTOR:

ARROWHEAD CONTRACTING, INC.
1309 WEST ALBANY STREET
SUITE 300
BROKEN ARROW, OK 74012
P(918) 896-2202

CONSULTANT CONTACTS

MEP CONSULTANT:

MPU ENGINEERING, LLC
909 WEST 11th STREET
SUITE 400
TULSA, OK 74119

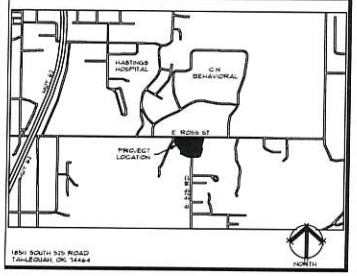
STRUCTURAL CONSULTANT:

WALLACE DESIGN COLLECTIVE
123 NORTH MLK JR BOULEVARD
TULSA, OK 74103

CIVIL CONSULTANT:

WALLACE DESIGN COLLECTIVE
123 NORTH MLK JR BOULEVARD
TULSA, OK 74103

PROJECT LOCATION



18511 SOUTH 525 ROAD
TAHLEQUAH, OK 74464

SHEET INDEX

SHEET INDEX A

SHEET NUMBER	SHEET NAME	DISCIPLINE	DISCIPLINE CODE
CS.A	COVER SHEET - 2 BED DUPLEX	GENERAL	G1
G0.01 A	ADAAG INFO AND GUIDELINES	GENERAL	G1
A1.01 A	FLOOR PLAN - 2 BED DUPLEX	ARCHITECTURAL	A1
A1.11 A	ROOF AND ROOF PLAN - 2 BED DUPLEX	ARCHITECTURAL	A1
A2.01 A	EXTERIOR ELEVATIONS AND BUILDING SECTIONS	ARCHITECTURAL	A2
A4.01 A	ENLARGED PLANS AND INTERIOR ELEVATIONS	ARCHITECTURAL	A4
A6.11 A	WINDOW AND DOOR DETAILS	ARCHITECTURAL	A6
ID0.01 A	INTERIOR FINISH PLAN	INTERIORS	ID0
S0.01 A	GENERAL NOTES	STRUCTURAL	S0
S1.01 A	FOUNDATION PLAN - 2 BED DUPLEX	STRUCTURAL	S1
S1.11 A	CEILING FRAMING PLAN / ROOF FRAMING PLAN - 2 BED DUPLEX	STRUCTURAL	S1
S2.01 A	TYPICAL FOUNDATION DETAILS	STRUCTURAL	S2
S3.01 A	TYPICAL WOOD DETAILS	STRUCTURAL	S3
S3.02 A	TYPICAL WOOD DETAILS	STRUCTURAL	S3
S4.01 A	FRAMING DETAILS	STRUCTURAL	S4

SHEET INDEX A

SHEET NUMBER	SHEET NAME	DISCIPLINE	DISCIPLINE CODE
M0.01 A	HVAC NOTES	MECHANICAL	M0
M1.01 A	TYPE A HVAC PLAN AND SCHEDULES	MECHANICAL	M1
P0.01 A	PLUMBING NOTES AND DETAILS	PLUMBING	P0
P1.01 A	2 BED DUPLEX UNDER SLAB PLUMBING PLANS	PLUMBING	P1
E1.01 A	2 BED DUPLEX LIGHTING PLAN	ELECTRICAL	E1
E2.01 A	2 BED DUPLEX POWER PLAN	ELECTRICAL	E1

blue river ARCHITECTS
A Native American Owned Firm

STATE OF OKLAHOMA
THOMAS C. BIRD
No. 4183
TULSA, OK
LICENSED ARCHITECT
4/27/23

HACN BIRDTAIL ADDITION
18511 SOUTH 525 ROAD
TAHLEQUAH, OK 74464

CS.A
COVER SHEET - 2 BED DUPLEX

blue river ARCHITECTS
A Native American Owned Firm

BLUE RIVER PROJECT NUMBER
20210212.19

ISSUE DATE
04/27/2023

ISSUE
CONSTRUCTION DOCUMENTS

OTHER ISSUE DATES

NO.	DESCRIPTION	DATE

SHEET NAME
COVER SHEET - 2 BED DUPLEX

SHEET NUMBER
CS.A

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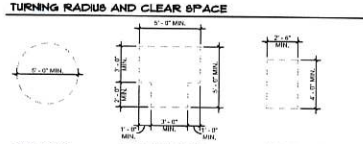
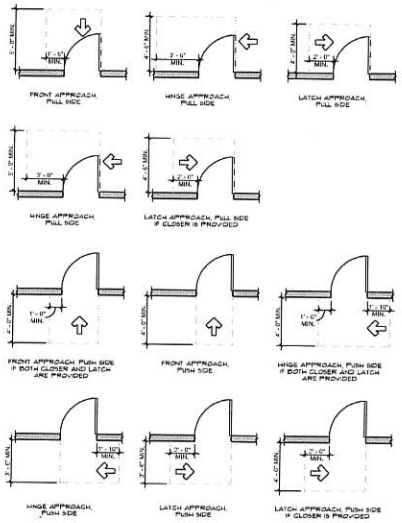
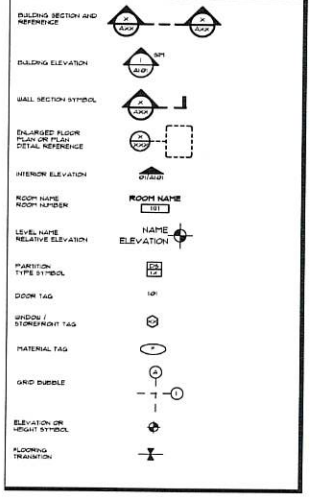
TURNING RADIUS AND CLEAR SPACE



DOOR CLEARANCES



SYMBOLS LEGEND



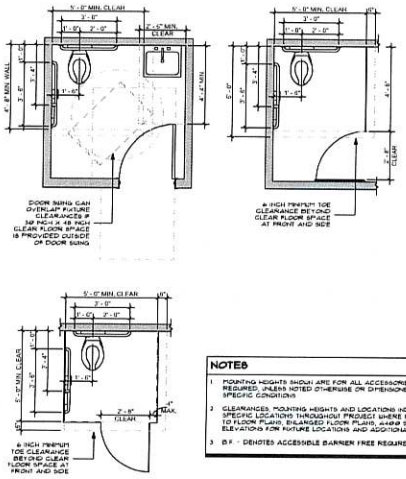
GENERAL PROJECT NOTES

1. GENERAL NOTES ARE TYPICAL FOR AREAS OF WORK.
2. THE CONTRACT DOCUMENTS IN THEIR ENTIRETY ARE THE RESPONSIBILITY OF ALL TRADES. WHERE REQUIREMENTS ARE SHOWN IN ONE SECTION OF THE SPECIFICATIONS OR DRAWINGS BUT NOT ANOTHER, THE CONTRACTOR IS NOT RELIEVED FROM PROVIDING COMPLETELY FINISHED, COORDINATED AND PROPERLY FUNCTIONING SYSTEMS.
3. ANY MISCELLANEOUS ITEMS OR MATERIALS NOT SPECIFICALLY NOTED, BUT REQUIRED FOR THE PROPER EXECUTION, INSTALLATION, OR PERFORMANCE OF THE WORK, SHALL BE PROVIDED BY THE CONTRACTOR.
4. THE CONTRACTOR / SUBCONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE LAYOUT AND COORDINATION OF DIMENSIONS IN THE FIELD THAT ESTABLISH WORK POINTS FOR THEIR WORK AND VARIOUS TRADES.
5. THE CONTRACTOR / SUBCONTRACTOR SHALL TAKE CARE TO PROTECT ALL NEWLY INSTALLED MATERIALS AND FINISHES UNTIL WORK IS FORMALLY ACCEPTED BY THE ARCHITECT OR THE OWNER'S REPRESENTATIVE AND TRANSFERRED TO THE OWNER.
6. THE CONSTRUCTION SITE IS TO BE KEPT CLEAN AND FREE OF DEBRIS. THE CONTRACTOR / SUBCONTRACTOR IS RESPONSIBLE FOR ALL PHASING, SECURING, HANDLING, TRANSPORTING AND DISPOSING OF DEBRIS.
7. IF DISCREPANCIES OCCUR BETWEEN DRAWINGS OR BETWEEN THE DRAWINGS AND SPECIFICATIONS, NOTIFY THE ARCHITECT FOR RESOLUTION PRIOR TO PROCEEDING.
8. DO NOT SCALE THE DRAWINGS. WRITTEN DIMENSIONS GOVERN. IF CRITICAL DIMENSIONS DO NOT APPEAR ON CONSTRUCTION DOCUMENTS, OR CONFLICT WITH DIMENSIONS ON OTHER DETAILS, NOTIFY THE ARCHITECT.
9. VERIFY EQUIPMENT ROUGH-IN DIMENSIONS WITH MANUFACTURER FOR EQUIPMENT THAT IS EXISTING, REUSED, OR FURNISHED BY OWNER.
10. ALL PENETRATIONS THROUGH FLOORS, WALLS AND RATED ASSEMBLIES AS WELL AS ALONG SLAB PERIMETERS SHALL BE SEALED AND PROTECTED WITH A UL-APPROVED ASSEMBLIES AND / OR PROTECTIVE DEVICES HAVING THE SAME OR GREATER TESTED RATING AS THAT REQUIRED FOR THE ASSEMBLY BEING PENETRATED. ALL PENETRATIONS TO BE PROTECTED TO MAINTAIN FIRE RATED ASSEMBLY INTEGRITY.
11. PROVIDE ELECTROLYTIC PROTECTION / ISOLATION BETWEEN ALL DISSIMILAR METALS, WHERE THEY OCCUR TO PREVENT ELECTROLYTIC REACTION AND / OR CORROSION.
12. THE CONTRACTOR / SUBCONTRACTOR SHALL PROVIDE ADEQUATE BLOCKING, BACKING, OR STRUCTURAL SUPPORT AS REQUIRED FOR PROPER INSTALLATION OF ALL MOUNTED ASSEMBLIES, INCLUDING ALL ATTACHED EQUIPMENT (OWNER AND CONTRACTOR FURNISHED ITEMS), PLUMBING FIXTURES, MILLWORK, AND CASEWORK.
13. CONTRACTOR SHALL COORDINATE ENVIRONMENTAL REMEDIATION REQUIREMENTS AND PROCEDURES WITH OWNER AND OWNER'S ENVIRONMENTAL CONSULTANT IF AND WHEN SITE CONDITIONS ARE PRESENT THAT REQUIRE ENVIRONMENTAL REMEDIATION. ARCHITECT'S CONSTRUCTION DOCUMENTS AND SPECIFICATIONS ARE NOT INTENDED TO PROVIDE REMEDIATION OR SATISFY REMEDIATION REQUIREMENTS AND SHALL NOT BE USED AS SUCH.

GENERAL DEFINITIONS

ALIGN	TO ACCURATELY LOCATE FACE BASED ON ADJACENT ITEMS OR CONSTRUCTION.
CLEAR	MINIMUM DIMENSION BETWEEN FINISHED CONDITION, SHALL BE TREATED AS A PRIORITY TO HOLD BEFORE OTHER DIMENSIONS.
MAXIMUM	THE CONDITION MAY NOT VARY TO A DIMENSION GREATER THAN THAT SHOWN WITHOUT THE APPROVAL OF THE ARCHITECT.
MINIMUM	THE CONDITION MAY NOT VARY TO A DIMENSION SMALLER THAN THAT SHOWN WITHOUT THE APPROVAL OF THE ARCHITECT.
SIMILAR	NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES. DETAILS AND NOTES ARE TYPICAL. SIMILAR DETAILS AND NOTES APPLY IN SIMILAR CONDITIONS. THE WORD "SIMILAR" MEANS THAT ITEM IN EACH CASE ARE TO BE SEPARATELY WORKED OUT TO SUIT CONDITIONS IN A MANNER LIKE OR SIMILAR TO THE EXAMPLE REFERRED TO AND DOES NOT MEAN IDENTICAL.
TYPICAL	THE CONDITION APPLIES TO THE SAME CONDITIONS THROUGHOUT UNLESS NOTED OTHERWISE.

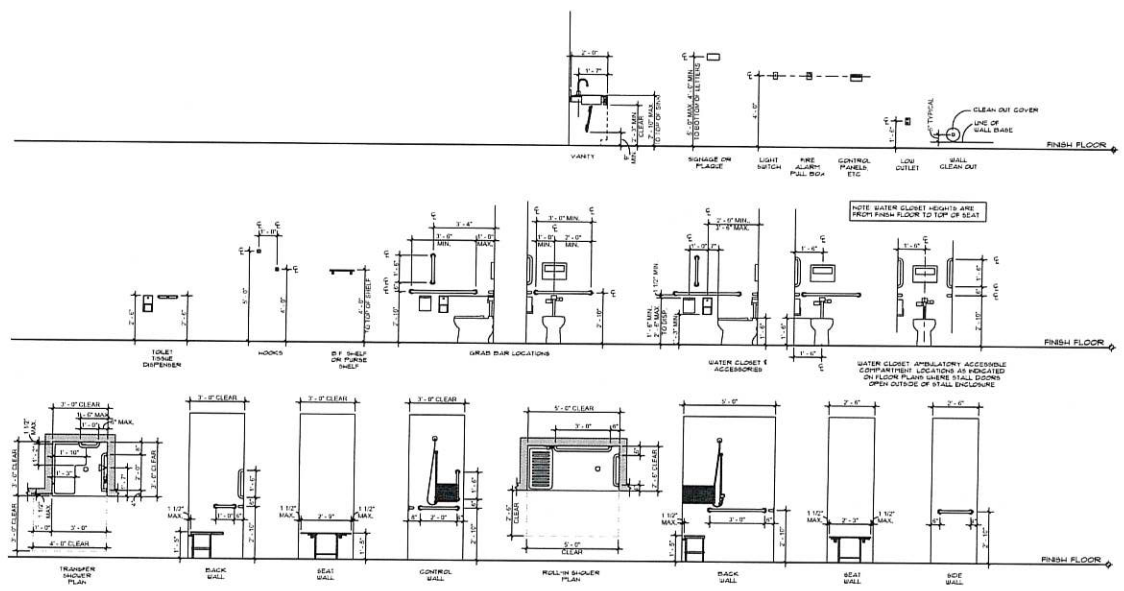
ACCESSORIES STALL PLANS



NOTES

1. MOUNTING HEIGHTS SHOWN ARE FOR ALL ACCESSORIES AND FIXTURES REQUIRED, UNLESS NOTED OTHERWISE OR DIMENSIONED ON DRAWINGS FOR SPECIFIC CONDITIONS.
2. CLEARANCES, MOUNTING HEIGHTS AND LOCATIONS INDICATED APPLY TO SPECIFIC LOCATIONS THROUGHOUT PROJECT WHERE FIXTURES OCCUR. REFER TO FLOOR PLANS, ENLARGED FLOOR PLANS, A4000 SERIES AND INTERIOR ELEVATIONS FOR FUTURE LOCATIONS AND ADDITIONAL INFORMATION.
3. B.F. - DENOTES ACCESSIBLE BARRIER FREE REQUIREMENTS

MISCELLANEOUS ACCESSORIES, TOILET ACCESSORIES AND FIXTURES



blue river ARCHITECTS
A Native American Owned Firm

STATE OF OKLAHOMA
No. 4183
THOMAS C. TULBERT
LICENSED ARCHITECT
4/27/23

HACN BIRDTAIL ADDITION
18511 SOUTH 525 ROAD
TAHLEQUAH, OK 74464

G003.A
ADAAG INFO AND GUIDELINES

blueriver ARCHITECTS
A Native American Owned Firm

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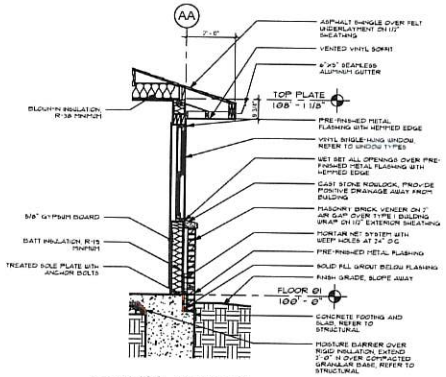
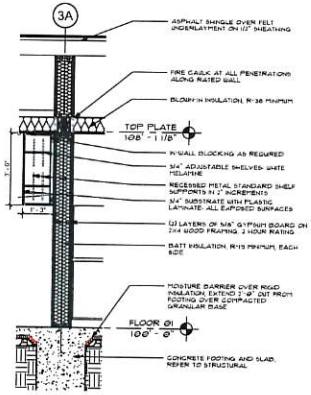


D WALL SECTION
1/2" = 1'-0"
REF FROM: B / A101.A



C WALL SECTION
1/2" = 1'-0"
REF FROM: F / A201.A

PARTITION TYPES NAMING CONVENTION

STRUCTURE

- A 1/8" HAT CHANNEL
- M 2x4 WOOD STUD
- N 2x6 WOOD STUD

SUB-TYPE

- A 6" ABOVE CEILING, BRACED HEAD (OR STR TO STRUCTURE ABOVE IF UNDER 24")
- B TO UNDERSIDE OF STRUCTURE ABOVE
- C STR TO UNDERSIDE OF STRUCTURE ABOVE, GYP TO 6" ABOVE CEILING
- D STR & GYP ONE SIDE TO STRUCTURE, GYP OTHER SIDE TO 6" ABOVE CEILING
- F FURRING 6" ABOVE CEILING
- G FURRING TO UNDERSIDE OF STRUCTURE
- H FURRING PARTIAL HEIGHT
- P PARTIAL HEIGHT
- S SOUND TO STRUCTURE ABOVE, SOUND BATTS

FIRE RESISTANCE RATING

- 0 NON RATED
- 1 1 HOUR
- 2 2 HOUR

SMOKE RATED

- X SMOKE PARTITION, SMOKE BARRIER OR WALL RESISTING THE PASSAGE OF SMOKE

EXAMPLE

- STRUCTURE
- SUB-TYPE
- SMOKE RATED (OPTIONAL)
- FIRE RATING

D = 3 5/8" METAL STUD
S = SOUND PARTITION
1 = 1 HR FIRE RESISTANCE RATING
X = SMOKE RATED PARTITION

PARTITION TYPES GRAPHICS CONVENTION

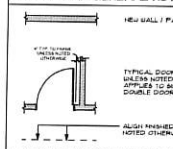
TYPICAL PARTITION WITH NO SPECIAL MATERIALS OR RATINGS

TYPICAL PARTITION

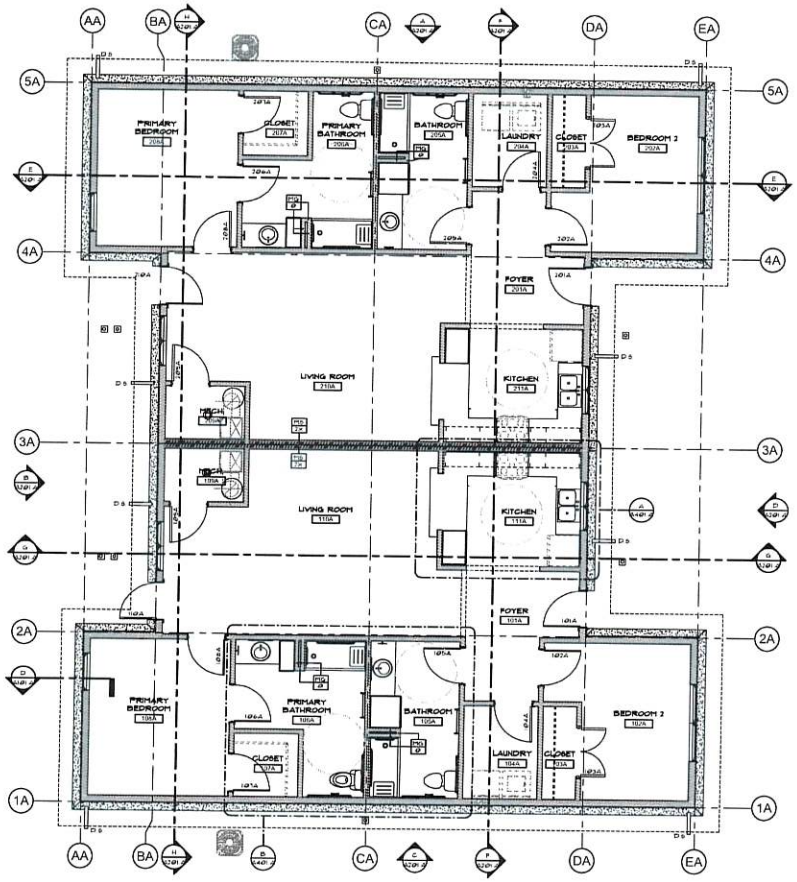
FIRE RATED PARTITIONS USE STRIPES TO CONVEY HOURS

2 HR FIRE RATING

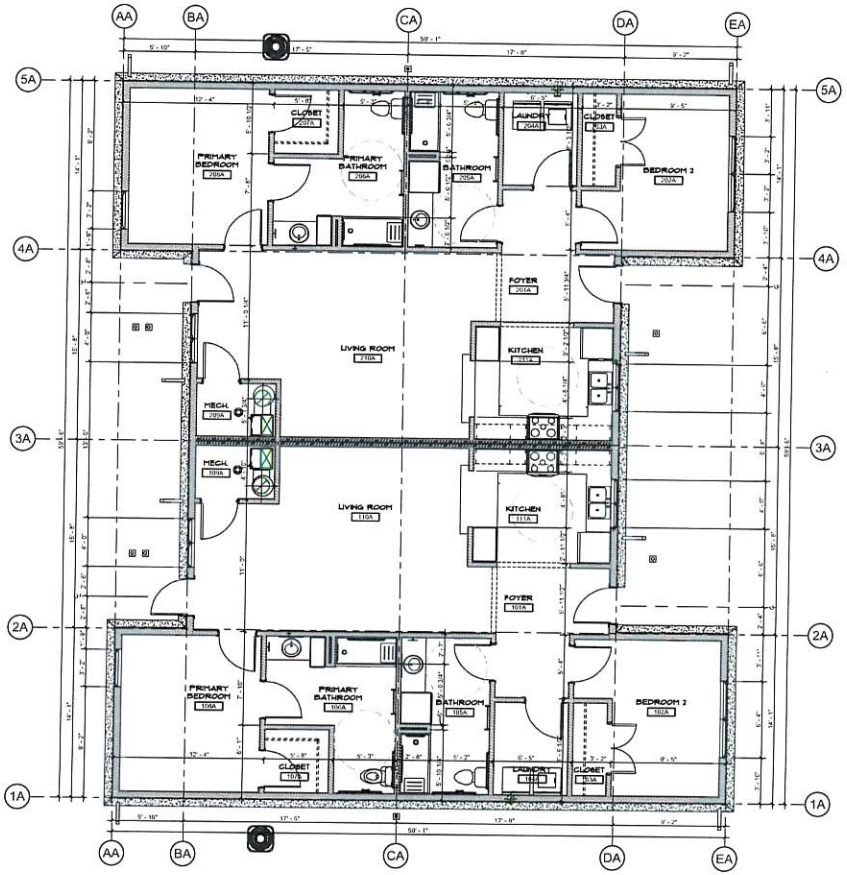
FLOOR PLAN GENERAL NOTES



1. ALL INTERIOR DIMENSIONS ARE TO THE FACE OF STUD, UNLESS NOTED OTHERWISE. DO NOT SCALE DRAWINGS. CONTACT ARCHITECT FOR CLARIFICATION.
2. ALL EXTERIOR DIMENSIONS ARE FROM FACE OF EXTERIOR FINISH UNLESS NOTED OTHERWISE.
3. UNLESS DIMENSIONED OTHERWISE, ALIGN PARTITIONS ON GRIDLINES WITH CENTERLINE OF STUD.
4. INTERIOR PARTITIONS ARE TYPE M0# UNLESS NOTED OTHERWISE.
5. WHEN WALL PARTITIONS OF DIFFERENT RING ON SOUND RATINGS INTERSECT, THE HIGHEST RATED PARTITION SHALL TAKE PRECEDENT.
6. WHERE EQUIPMENT IS SHOWN IN DASHED AND / OR HALFTONE, IT SHALL BE CONTRACTOR FURNISHED, CONTRACTOR INSTALLED, UNLESS NOTED OTHERWISE. EQUIPMENT, WHERE SHOWN, IS FOR COORDINATION AND BACKING PURPOSES ONLY. COMPARE MAKES AND MODELS WITH OWNER. VERIFY EQUIPMENT ROUGH-IN DIMENSIONS WITH MANUFACTURER. COORDINATE UTILITIES FOR EQUIPMENT WITH OWNER'S EQUIPMENT AND MEP DOCUMENTS. CONTRACTOR TO VERIFY AND COORDINATE ALL EQUIPMENT WITH OWNER, INCLUDING BUT NOT LIMITED TO WEIGHT, LOCATION, BACKING REQUIREMENTS, POWER AND CLEARANCES.



B OVERALL REFERENCE PLAN
1/4" = 1'-0"
REFER TO SITE PLAN



A OVERALL DIMENSION PLAN
1/4" = 1'-0"
REFER TO SITE PLAN

blue river ARCHITECTS
A Native American Owned Firm

STATE OF OKLAHOMA
THOMAS C. BIRTAIL
No. 4183
LICENSED ARCHITECT
4/27/23

HACN BIRDTAIL ADDITION

18511 SOUTH 529 ROAD
TAHLEQUAH, OK 74464

A101.A
FLOOR PLAN - 2 BED DUPLEX

blue river ARCHITECTS
A Native American Owned Firm

BLUE RIVER PROJECT NUMBER
20210212.19

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SHEET NAME
FLOOR PLAN - 2 BED DUPLEX

SHEET NUMBER
A101.A

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REFLECTED CEILING PLAN NOTES

1. ALL CEILINGS SHALL BE 9' - 0" AFF, UNLESS NOTED OTHERWISE
2. ALL CEILING FINISHES TO BE GYP-1, UNLESS NOTED OTHERWISE
3. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR MOUNTING LOCATIONS OF ITEMS WHERE NO CEILING IS REQUIRED OR INDICATED
4. IN THE CASE OF MINOR DISCREPANCIES BETWEEN MECHANICAL, ELECTRICAL, PLUMBING AND ARCHITECTURAL DOCUMENTS IN THE LOCATION OF CEILING MOUNTED COMPONENTS, THE ARCHITECTURAL REFLECTED CEILING PLAN SHALL GOVERN. IN THE CASE OF MAJOR DISCREPANCIES, THE ARCHITECT SHALL BE NOTIFIED AS SOON AS THE DISCREPANCY IS DISCOVERED PRIOR TO PROCEEDING WITH THE WORK
5. LIGHTS, EXIT SIGNS, SMOKE DETECTORS, DIFFUSERS, AND MISCELLANEOUS DEVICES SHALL BE CENTERED IN THE CEILING TILE IN WHICH THEY OCCUR, UNLESS NOTED OTHERWISE
6. CENTER, ALIGN AND / OR LOCATE LIGHT FIXTURES, MECHANICAL GRILLES, LIFE SAFETY DEVICES, OCCUPANCY SENSORS, SECURITY AND DATA FIXTURES AND OTHER MISCELLANEOUS COMPONENTS IN A UNIFORM AND ORDERLY FASHION, UNLESS ALTERNATE ARRANGEMENT IS SPECIFICALLY DIMENSIONED AND NOTED. INSTALL TRUE AND SQUARE
7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE FIT OF ALL WORK AND TO PROVIDE A UNIFORM AND ORDERLY PLACEMENT AND APPEARANCE, WHETHER EXPOSED TO VIEW OR CONCEALED BY FINISHES
8. CENTER, ALIGN AND LOCATE ACCESS PANELS IN ACCORDANCE WITH DESIGN CRITERIA FOR OTHER DEVICES. SUBMIT SHOP DRAWINGS THAT INDICATE EXACT SIZE, TYPE AND LOCATION OF CEILING AND WALL ACCESS PANELS FOR REVIEW AND ACCEPTANCE BEFORE INSTALLATION. ALL ACCESS PANELS SHALL BE PAINTED, UNLESS NOTED OTHERWISE AND EXTERIOR GRADE WHERE REQUIRED
9. PROVIDE GYPSUM BOARD BULKHEADS WHERE CEILINGS OF DIFFERENT HEIGHTS ON ORIENTATION ABUT. DO NOT BUILD BULKHEADS OF ACOUSTICAL CEILING MATERIAL
10. ALIGN ALL SOFFITS AND / OR BULKHEADS WITH ADJACENT WALLS, UNLESS NOTED OTHERWISE
11. ALL OUTLETS, RECEPTACLES, DEVICES AND COVER PLATES SHALL BE INSTALLED PLUMB AND LEVEL. CROOKED INSTALLATION IS NOT ALLOWED
12. MISALIGNED MEP FIXTURES OF ANY TYPE OR AT ANY LOCATION EXPOSED TO VIEW ARE NOT ALLOWED. MISALIGNED FIXTURES SHALL BE ADJUSTED OR REMOVED AND REPLACED IF REQUIRED FOR PROPER ALIGNMENT AT NO ADDITIONAL COST
13. ALL RECESSED LIGHTING TO BE SEALED AIR-TIGHT, IC-RATED AND SEALED TO GYPSUM BOARD OR FINISH MATERIAL AS REQUIRED BY THE IECC INTERNATIONAL ENERGY CONSERVATION CODE. ALL MECHANICAL, ELECTRICAL AND PLUMBING FIXTURES SHALL BE IECC COMPLIANT
14. CONTRACTOR TO COORDINATE ALL OUTLETS, SWITCHES AND POWER FEED WITH CASEWORK, PARTITIONS, FINISHES, FIXTURES AND EQUIPMENT
15. PROVIDE PRE-FINISHED WHITE ELECTRICAL DEVICES AND WHITE COVER PLATES AT ALL WALLS IN PROJECT. AT ALL OTHER LOCATIONS, SUCH AS CASEWORK, RECEPTACLES AND COVER PLATES SHALL MATCH ADJACENT FINISHES, AS DETERMINED AND SELECTED BY THE ARCHITECT FROM MANUFACTURER'S FULL RANGE. FIELD PAINT WHERE REQUIRED
16. MAINTAIN CONTINUOUS FIRE RATED ENCLOSURES AS REQUIRED AT RATED WALLS AND CEILINGS. PROVIDE FIRE RATED FIXTURE COVERS, J BOXES OR CONSTRUCT GYPSUM BOARD ENCLOSURES WHERE REQUIRED FOR FIXTURE OR MEP RUNS TO MAINTAIN CONTINUOUS FIRE RATING
17. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION FOR DIFFUSERS AND GRILLE TYPES. REFER TO ELECTRICAL DRAWINGS FOR FIXTURE SCHEDULES AND ADDITIONAL INFORMATION. DESIGN INTENT FOR APPEARANCE, TYPE, ARRANGEMENT AND LOCATION IS INDICATED ON ARCHITECTURAL DRAWINGS. REPORT DISCREPANCIES TO ARCHITECT FOR CLARIFICATION PRIOR TO ORDERING MATERIALS OR THE START OF ROUGH-IN
18. COORDINATION: ALL DEVICES REQUIRED FOR PROJECT MAY NOT BE SHOWN ON ARCHITECTURAL DRAWINGS. REFER TO MECHANICAL, ELECTRICAL, PLUMBING DRAWINGS FOR ADDITIONAL DEVICES. ALL DEVICES IN PROJECT SHALL FOLLOW DESIGN CRITERIA FOR PLACEMENT, AS INDICATED, WHETHER OR NOT SHOWN ON ARCHITECTURAL DRAWINGS. REPORT DISCREPANCIES TO ARCHITECT FOR CLARIFICATION PRIOR TO INSTALLATION

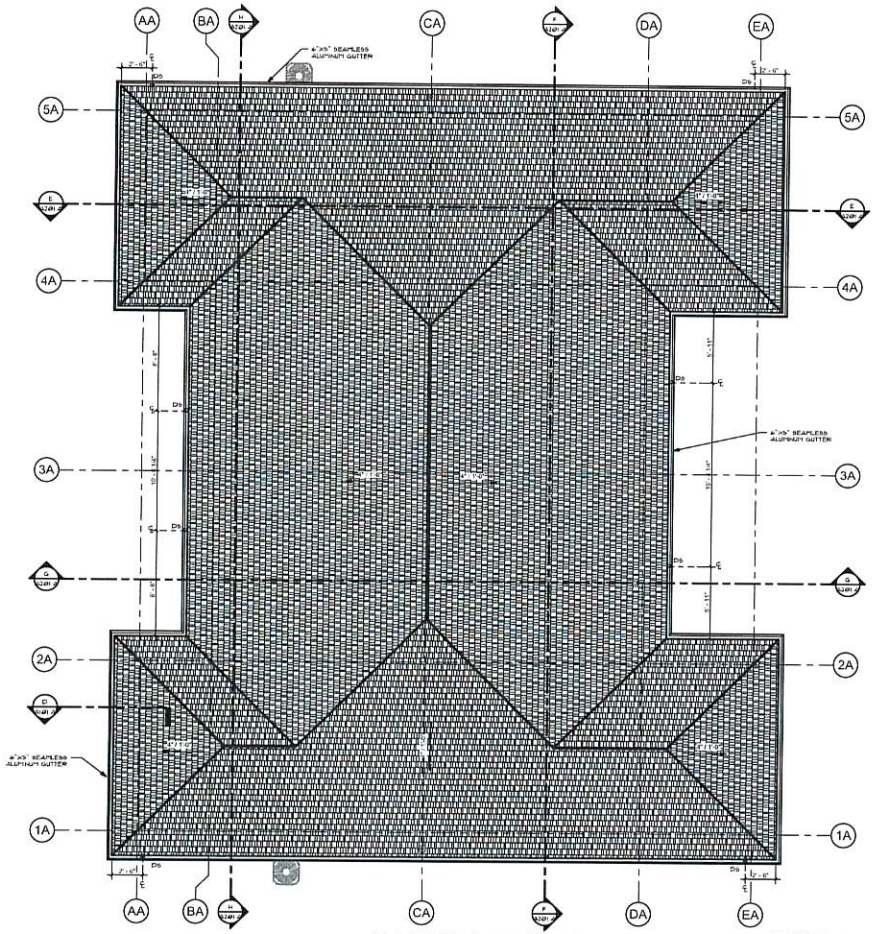
REFLECTED CEILING PLAN LEGEND

- RECESSED CAN LIGHT
- GYPSUM BOARD
- MILLWORK
- CEILING FAN
- DATA, CEILING MOUNTED
- FIRE ALARM
- SUPPLY DIFFUSER
- RETURN
- EXHAUST FAN
- SMOKE DETECTOR
- 12'-0" AFF — CEILING HEIGHT
- ALIGN — ALIGN FINISHED SURFACES
- NOTE — OPEN TO STRUCTURE
- C/J — CONTROL JOINT

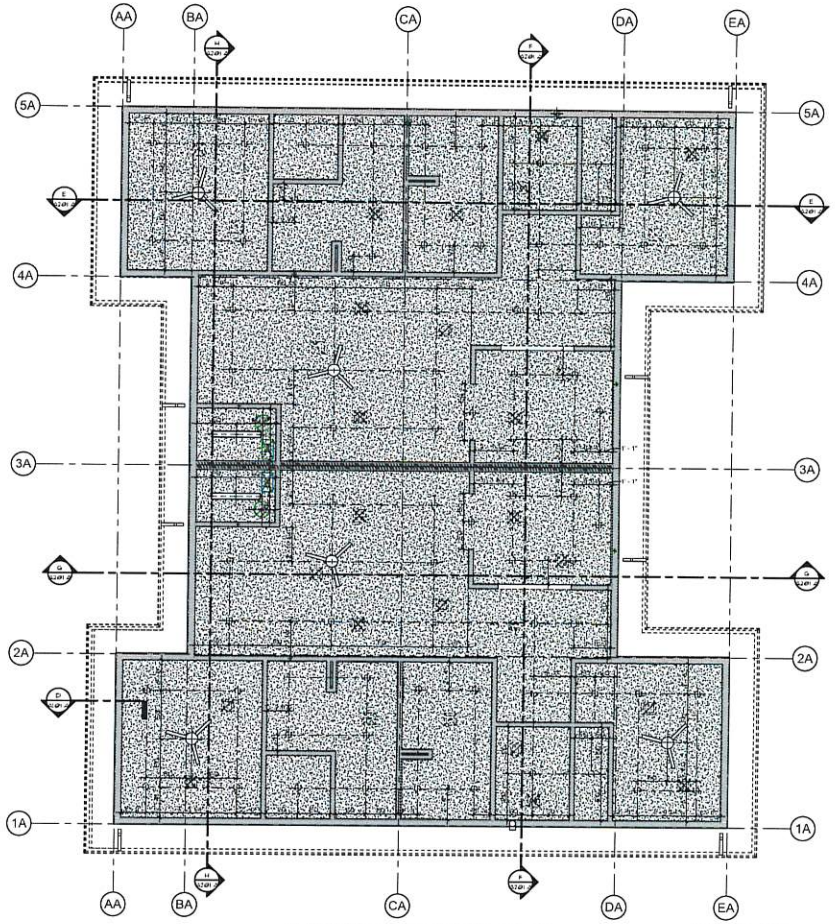
NOTE: REFER TO STRUCTURAL, ELECTRICAL AND MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION

ROOF PLAN GENERAL NOTES

1. ALL ROOFING SURFACES TO SLOPE 1/4 INCH PER FOOT MINIMUM, UNLESS NOTED OTHERWISE
2. INSTALL ROOFING IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS
3. INSTALL GUTTERS AND DOWNSPOUTS IN ACCORDANCE WITH SMACNA GUIDELINES
4. PROVIDE RIDGE CAPS AT ALL ROOF RIDGES
5. PIPE AND VENT PENETRATIONS: PROVIDE PRE-MOLDED PIPE SLEEVES ONLY, FOR ALL PENETRATIONS, AS RECOMMENDED BY MANUFACTURER FOR SIZE, TYPE AND APPLICATION. PITCH PANS ARE NOT ALLOWED
6. INSTALL ICE AND WATER SHIELD AT ALL VALLEYS AND THE FIRST 4' FROM ANY EAVE CONDITION



B OVERALL ROOF PLAN
1/4" = 1'-0"
REFER TO SITE PLAN



A REFLECTED CEILING PLAN
1/4" = 1'-0"
REFER TO SITE PLAN

blue river ARCHITECTS
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LICENSED ARCHITECT
4/27/23

HACN BIRDTAIL ADDITION
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A121.A
RCP AND ROOF PLAN - 2 BED DUPLEX

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RCP AND ROOF PLAN - 2 BED DUPLEX

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A121.A

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EXTERIOR MATERIAL LEGEND

ASPHALT SHINGLE ROOF - AS

- AS-1 ASPHALT SHINGLE - BLACK

COMPOSITE WALL SIDING - WS

- WS-1 VINYL BOARD AND BATTEN SIDING

BRICK VENEER - BR

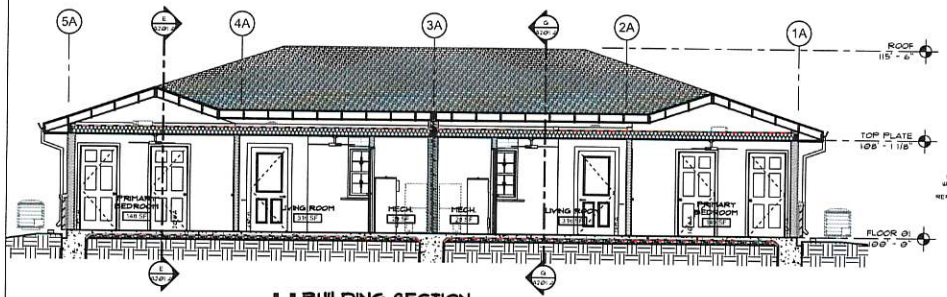
- BR-1 BRICK VENEER, RUNNING BOND - RED

OTHER ITEMS

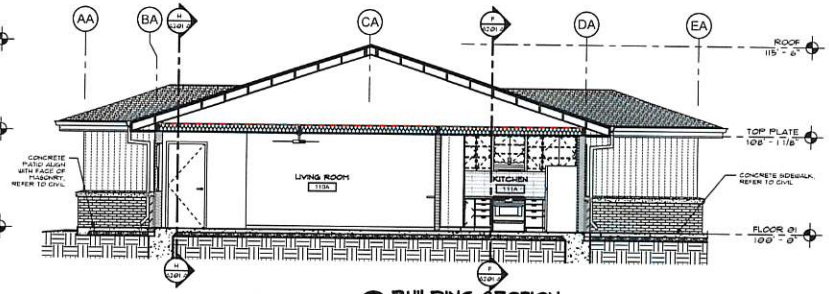
- GLAZING SYSTEM, REFER TO A601 WINDOW DETAILS FOR MORE INFORMATION
- LIGHTING, REFER TO ELECTRICAL
- LOUVER, REFER TO MECHANICAL

EXTERIOR ELEVATION GENERAL NOTES

1. REFER TO SHEET A601.A FOR WINDOW TYPE AND DOOR SCHEDULE
2. REFER TO A601.A SERIES SHEETS FOR EXTERIOR WALL SECTIONS
3. ALL EXTERIOR DIMENSIONS ARE FROM FACE OF EXTERIOR FINISH, UNLESS NOTED OTHERWISE
4. MASONRY DIMENSIONS ARE NOMINAL, UNLESS NOTED OTHERWISE
5. REFER TO CIVIL DRAWINGS FOR FINISH GRADE ELEVATIONS
6. DETAILS ON EXTERIOR ELEVATIONS ARE GENERAL IN NATURE AND FOR ILLUSTRATIVE PURPOSES ONLY. REFER TO WALL DETAILS AND SECTIONS FOR DETAILED INFORMATION CONCERNING EXTERIOR CONSTRUCTION
7. REFER TO ELECTRICAL FOR ADDITIONAL INFORMATION AT EXTERIOR LIGHTING
8. PROVIDE CONTROL JOINTS PER MANUFACTURER'S SPECIFICATIONS



H BUILDING SECTION
1/4" = 1'-0" REF FROM B / A101.A



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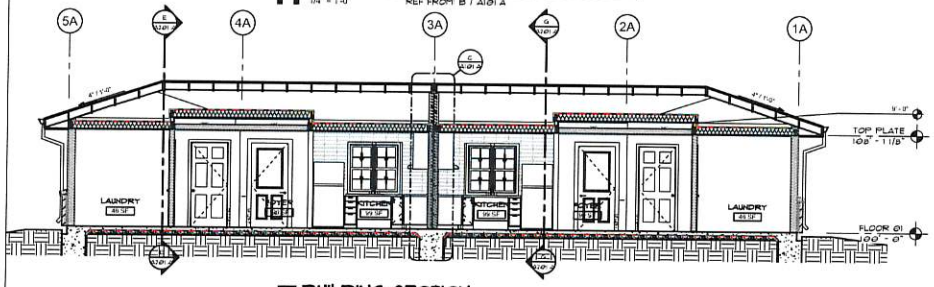
1/4" = 1'-0" REF FROM B / A101.A



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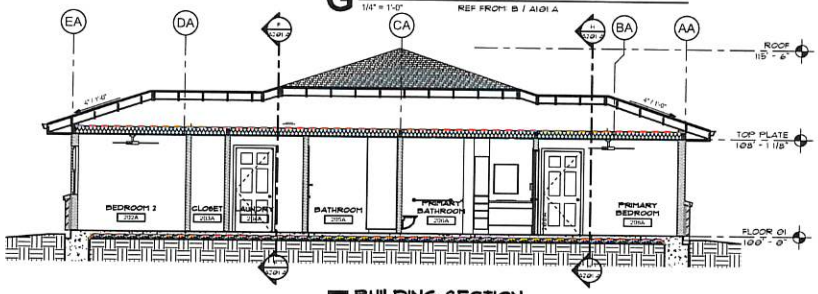

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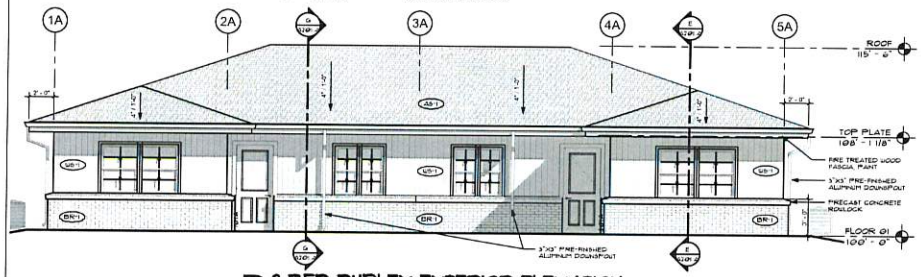
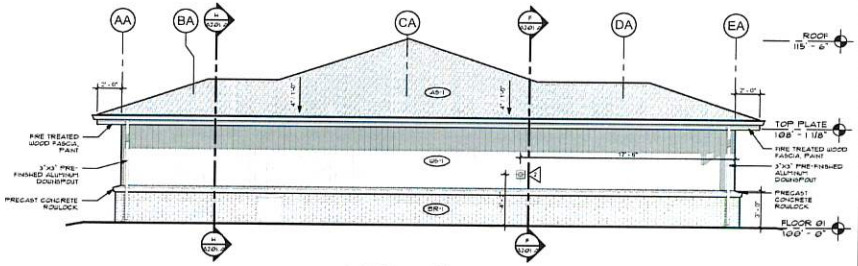


D 2 BED DUPLEX EXTERIOR ELEVATION
1/4" = 1'-0" REF FROM B / A101.A



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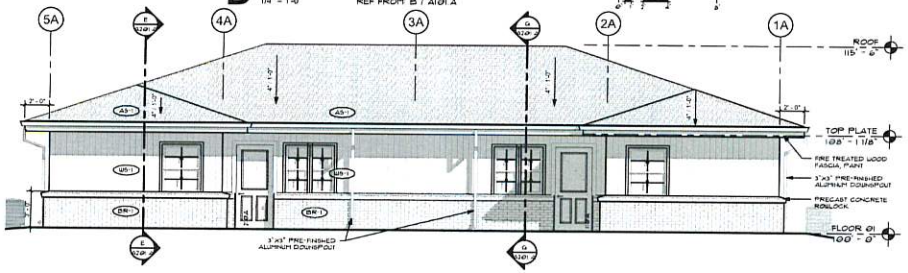

B 2 BED DUPLEX EXTERIOR ELEVATION
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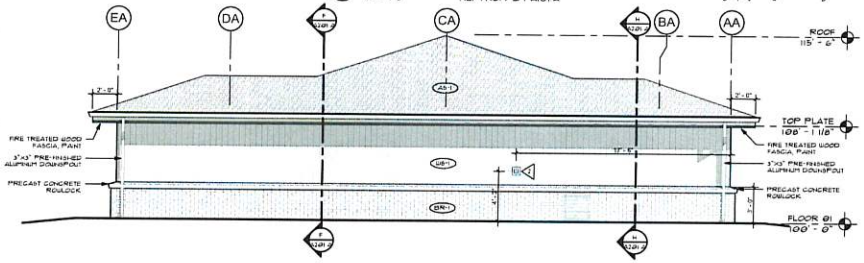

A 2 BED DUPLEX EXTERIOR ELEVATION
1/4" = 1'-0" REF FROM B / A101.A

blue river ARCHITECTS
A Native American Owned Firm

STATE OF OKLAHOMA
THOMAS C. BAILEY
No. 4183
TULSA, OK
LICENSED ARCHITECT
4/27/23

HACN BIRDTAIL ADDITION
18511 SOUTH 525 ROAD
TAHLEQUAH, OK 74464

A201.A
EXTERIOR ELEVATIONS AND BUILDING SECTIONS

blueriver ARCHITECTS
A Native American Owned Firm

BLUE RIVER PROJECT NUMBER
20210212.19

ISSUE DATE
04/27/2023

ISSUE
CONSTRUCTION DOCUMENTS

OTHER ISSUE DATES

NO.	DESCRIPTION	DATE

SHEET NAME
EXTERIOR ELEVATIONS AND BUILDING SECTIONS

SHEET NUMBER
A201.A

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TOILET ACCESSORY SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	MODEL	NOTES
TA-1	GRAB BARS 18" VERTICAL	BRADLEY CORPORATION	812	
TA-2	GRAB BARS 42" HORIZONTAL	BRADLEY CORPORATION	812	
TA-3	GRAB BARS 36" HORIZONTAL	BRADLEY CORPORATION	812	
TA-4	REVERSIBLE FOLDING SHOWER SEAT	BOBRICK WASHROOM EQUIPMENT, INC	B-5181	
TA-5	PURIST PIVOTING TOILET TISSUE HOLDER	KOHLER	K-14311	
TA-6	TOOD - 24IN TOWEL BAR	KOHLER	K-1944T	
TA-7	STILLness TOWEL RING	KOHLER CO	K-14456-CP	
TA-8	GLASS MIRROR WITH STAINLESS STEEL ANGLE FRAME	BOBRICK WASHROOM EQUIPMENT, INC	B-2908 SERIES	
TA-9	SHOWER PAN WITH LOW THRESHOLD	DESTIDATH	PB-2436TRD	
TA-10	SHOWER HEAD SYSTEM	MOEN	T8342BPB	

RESIDENTIAL EQUIPMENT SCHEDULE

RE	DESCRIPTION	MANUFACTURER	MODEL	NOTES
RE-1	ADA 24" OVEN/RANGE	FRIGIDAIRE	LFEH3054LF	
RE-2	REFRIGERATOR	AMANA	ART308FFDQ	
RE-3	UNDERCABINET OVEN HOOD	JENN-AIR	RHP1130CAL	
RE-4	DRYER	WHIRLPOOL	WED4550HW	
RE-5	WASHER	WHIRLPOOL	WTW4955HW	

TOILET ACCESSORIES GENERAL NOTES

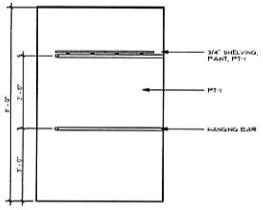
1. REFER TO ACCESSIBLE MOUNTING HEIGHTS AND CLEARANCES INDICATED ON SHEET G0103.A. REFER TO SPECIFICATION 102800 - TOILET, BATH AND LAUNDRY ACCESSORIES FOR ADDITIONAL INFORMATION.
2. MANUAL SOAP DISPENSER, CONTRACTOR FURNISHED, CONTRACTOR INSTALLED. LOCATIONS NOT SHOWN.
3. GRAB BARS, CONTRACTOR FURNISHED, CONTRACTOR INSTALLED. PROVIDE 18 INCH, 36 INCH AND 42 INCH GRAB BARS AS INDICATED ON SHEET G0103.A AND AS REQUIRED BY CODE AT ALL WATER CLOSETS.
4. SHOWER CURTAIN ROD, CONTRACTOR FURNISHED, CONTRACTOR INSTALLED. LOCATIONS NOT SHOWN. PROVIDE ONE PER EACH SHOWER TYPE. REFER TO SPECIFICATIONS.

TOILET ACCESSORIES

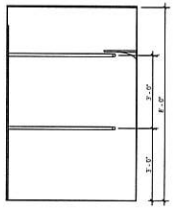
1. MIRRORS, CONTRACTOR FURNISHED, CONTRACTOR INSTALLED. PROVIDE SIZES AS INDICATED. REFER TO SPECIFICATION SECTION 088300 - MIRRORS.
2. HAND SANITIZER DISPENSER, CONTRACTOR FURNISHED, CONTRACTOR INSTALLED. CENTER HORIZONTALLY ON WALL TILE LOCATIONS AS INDICATED. REFER TO SPECIFICATIONS.
3. FIELD INSTALLED TRANSFER-TYPE SHOWER PAN WITH FOLDING SHOWER SEAT, CONTRACTOR FURNISHED, CONTRACTOR INSTALLED. LOCATIONS AS INDICATED.
4. PRE-FABRICATED TRANSFER-TYPE SHOWER PAN TO BE CONTRACTOR FURNISHED, CONTRACTOR INSTALLED. REFER TO PLUMBING.
5. TOWEL PIN, CONTRACTOR FURNISHED, CONTRACTOR INSTALLED. LOCATIONS AS INDICATED.

INTERIOR ELEVATION GENERAL NOTES

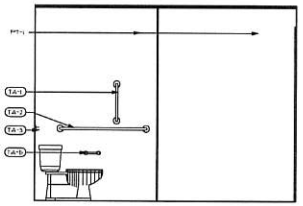
1. REFER TO G0103.A FOR STANDARD MOUNTING HEIGHTS.
2. REFER TO SHEET A6I.A FOR DOOR SCHEDULE.
3. REFER TO SHEET A6I.A FOR WINDOW TYPES.
4. PROVIDE BLOCKING AT ALL WALL CABINETS AND ALL WALL MOUNTED EQUIPMENT.
5. EQUIPMENT SHOWN IN DASH AND/OR HALFTONE SHALL BE CONTRACTOR FURNISHED, CONTRACTOR INSTALLED. EQUIPMENT IS SHOWN HERE FOR COORDINATION AND BACKING PURPOSES ONLY. MAKES AND MODELS SHALL BE COORDINATED WITH OWNER.
6. EXPOSED SURFACES OF CABINETS FINISHED TO MATCH FACE.
7. ALL COUNTERTOPS SHALL HAVE EASED EDGE CORNERS AT ALL EXPOSED EXTERIOR CORNERS.
8. ALL EXPOSED PIPES UNDER RESTROOM SINKS TO HAVE INSULATION WRAP.
9. PROVIDE BLOCKING AT ALL TOILET ACCESSORIES.
10. PROVIDE ACCESSIBLE WALL CLEANOUT AT ALL MILLWORK ADJACENT TO SHOWERS.



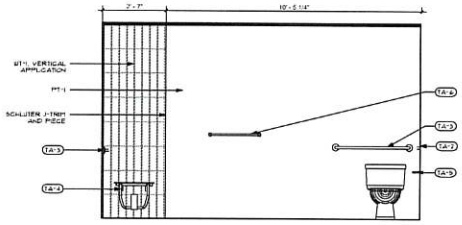
N PRIMARY CLOSET ELEVATION
1/2" = 1'-0" REF FROM: B / A401.A



M PRIMARY CLOSET ELEVATION
1/2" = 1'-0"



L PRIMARY BATHROOM ELEVATION
1/2" = 1'-0" REF FROM: B / A401.A



K PRIMARY BATHROOM ELEVATION
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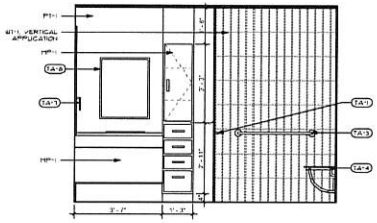
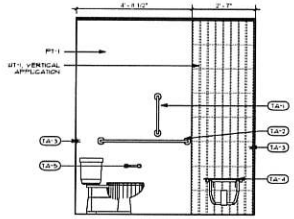
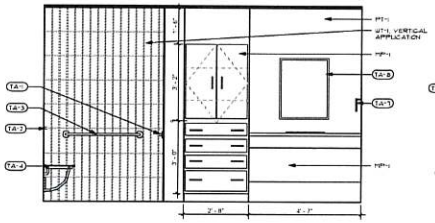


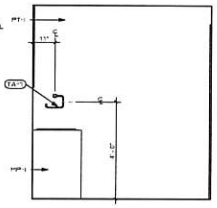
J PRIMARY BATHROOM ELEVATION
1/2" = 1'-0" REF FROM: B / A401.A



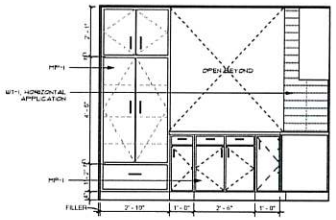
H BATHROOM ELEVATION
1/2" = 1'-0" REF FROM: B / A401.A



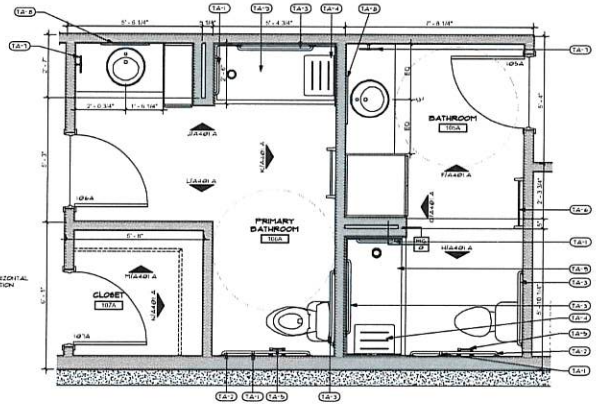
G BATHROOM ELEVATION
1/2" = 1'-0" REF FROM: B / A401.A



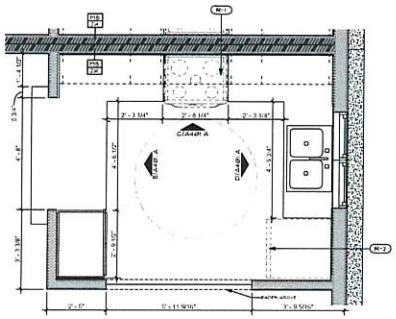
F BATHROOM ELEVATION
1/2" = 1'-0" REF FROM: B / A401.A



E KITCHEN ELEVATION
1/2" = 1'-0" REF FROM: A / A401.A



B ENLARGED BATHROOM PLAN
1/2" = 1'-0" REF FROM: B / A101.A



A ENLARGED KITCHEN PLAN
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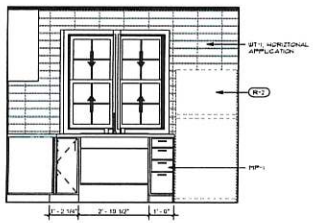
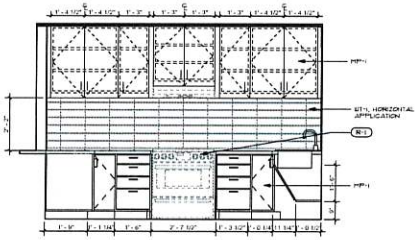


D KITCHEN ELEVATION
1/2" = 1'-0" REF FROM: A / A401.A



C KITCHEN ELEVATION
1/2" = 1'-0" REF FROM: A / A401.A

blue river ARCHITECTS
A Native American Owned Firm

STATE OF OKLAHOMA
THOMAS C. BIRD
No. 4183
TULSA, OK
LICENSED ARCHITECT
4/27/23

HACN BIRDTAIL ADDITION
18511 SOUTH 525 ROAD
TAHLEQUAH, OK 74464

A401.A
ENLARGED PLANS AND INTERIOR ELEVATIONS

blue river ARCHITECTS
A Native American Owned Firm

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ENLARGED PLANS AND INTERIOR ELEVATIONS

SHEET NUMBER
A401.A

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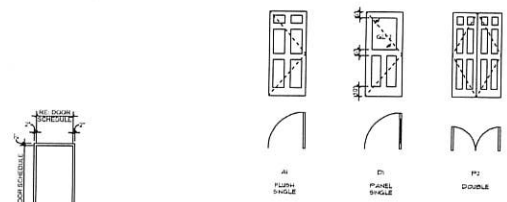
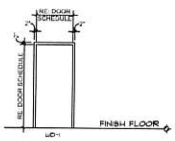
DOOR SCHEDULE BUILDING A

REV	DOOR NO	ROOM	DOOR WIDTH	DOOR HEIGHT	DOOR TYPE	DOOR MATERIAL	DOOR FINISH	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	GLAZING TYPE	COMMENTS
	101A	FOYER	3' - 0"	7' - 0"				WD-1			GL-2	
	102A	BEDROOM 2	3' - 0"	7' - 0"	AI	WD	PT-2	WD-1	WD	PT-2		
	103A	CLOSET	4' - 0"	7' - 0"	P2	WD	PT-2	WD-1	WD	PT-2		
	104A	LAUNDRY	3' - 0"	7' - 0"	AI	WD	PT-2	WD-1	WD	PT-2		
	105A	BATHROOM	3' - 0"	7' - 0"	AI	WD	PT-2	WD-1	WD	PT-2		
	106A	PRIMARY BATHROOM	3' - 0"	7' - 0"	AI	WD	PT-2	WD-1	WD	PT-2		
	107A	CLOSET	3' - 0"	7' - 0"	AI	WD	PT-2	WD-1	WD	PT-2		
	108A	PRIMARY BEDROOM	3' - 0"	7' - 0"	AI	WD	PT-2	WD-1	WD	PT-2		
	109A	LIVING ROOM	3' - 0"	7' - 0"	AI	WD	PT-2	WD-1	WD	PT-2		
	110A	LIVING ROOM	3' - 0"	7' - 0"		WD		WD-1			GL-2	
	201A	FOYER	3' - 0"	7' - 0"				WD-1			GL-2	
	202A	BEDROOM 2	3' - 0"	7' - 0"	AI	WD	PT-2	WD-1	WD	PT-2		
	203A	CLOSET	4' - 0"	7' - 0"	P2	WD	PT-2	WD-1	WD	PT-2		
	204A	LAUNDRY	3' - 0"	7' - 0"	AI	WD	PT-2	WD-1	WD	PT-2		
	205A	BATHROOM	3' - 0"	7' - 0"	AI	WD	PT-2	WD-1	WD	PT-2		
	206A	PRIMARY BEDROOM	3' - 0"	7' - 0"	AI	WD	PT-2	WD-1	WD	PT-2		
	207A	CLOSET	3' - 0"	7' - 0"	AI	WD	PT-2	WD-1	WD	PT-2		
	208A	PRIMARY BEDROOM	3' - 0"	7' - 0"	AI	WD	PT-2	WD-1	WD	PT-2		
	209A	MECH	3' - 0"	7' - 0"	AI	WD	PT-2	WD-1	WD	PT-2		
	210A	LIVING ROOM	3' - 0"	7' - 0"		WD		WD-1			GL-2	



NOTES REFER TO DOOR SCHEDULE FOR HEIGHT AND WIDTH DIMENSIONS

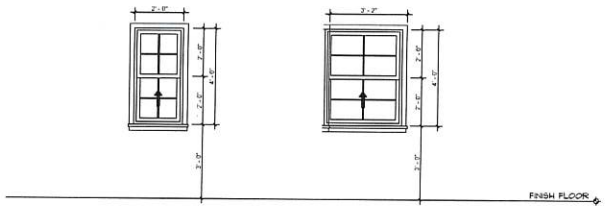


FRAME TYPES PLAN A

1/4" = 1'-0"

DOOR TYPES

1/4" = 1'-0"



SINGLE-HUNG SINGLE-HUNG

DOOR SCHEDULE GENERAL NOTES

1. SEE SPECIFICATIONS FOR HARDWARE GROUPS
2. PAINT ALL DOORS AND FRAMES, UNLESS NOTED OTHERWISE
3. COORDINATE ALL DETAILS WITH PARTITION TYPES, INTERIOR / EXTERIOR FINISHES AND CEILING CONDITIONS AS INDICATED ON FLOOR PLANS, CEILING PLANS, AND OTHER DRAWINGS
4. ALL DOORS, FRAMES AND HARDWARE SHALL COMPLY WITH ACCESSIBILITY REQUIREMENTS, AS INDICATED
5. PROVIDE CONTINUOUS SEALANT AT JOINTS BETWEEN DOOR / LITE FRAMES AND ADJACENT SURFACES EACH SIDE OF ALL HEADS / JAMBS / SILLS AND AROUND THE BASE OF ALL DOOR FRAMES
6. ALL EXTERIOR STEEL DOORS TO BE INSULATED WITH THERMAL BREAKS
7. ALL WINDOWS TO BE SINGLE-HUNG UNLESS NOTED OTHERWISE

DOOR ABBREVIATIONS

WD	WOOD
ST	STEEL
F	FAIR

GLAZING TYPES

GL-1 1" INSULATED, CLEAR, TEMPERED LOW "E"

GL-2 REFER TO DOOR MANUFACTURER, FROSTED

NOTE T - TEMPERED

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A611.A
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WINDOW AND DOOR DETAILS

SHEET NUMBER
A611.A

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FLOORING LEGEND

C-1
T-1
LVT-1
T-2

ROOM NAME
101
CEILING
WALL
BASE
FLOOR
NOTE

FLOORING DIRECTION

C-1 / LVT-1 — FLOORING TRANSITION

FINISH FLOOR PLAN GENERAL NOTES

1. ALL NEW BUILDING MATERIALS AND PRODUCTS SHALL NOT CONTAIN LEAD, CADMIUM, OR ASBESTOS
2. REFER TO ROOM FINISH SCHEDULE FOR ADDITIONAL INFORMATION AT NON-ELEVATED AREAS
3. PROVIDE CORNER AND END WALL GUARDS AT OUTSIDE GYPSUM BOARD CORNERS
4. FINISH HATCHES AND PATTERNS ARE FOR GRAPHIC PURPOSES ONLY AND ARE NOT INTENDED TO SHOW EXACT PATTERN OR SIZES OF FINISHES
5. PROVIDE TILE BACKER BOARD AT ALL WALLS SHOWN TO RECEIVE TILE
6. PROVIDE SEALANT AT ALL TILE INSIDE CORNERS AND AT DOOR FRAMES. COLOR TO MATCH ADJACENT GROUT COLOR

TILE

1. AT ALL WALLS TO RECEIVE TILE, INSTALL TILE PATTERN CENTERED ON EACH MAIN WALL.
2. "LEVEL LINE" OF TILE INSTALLATION TO BE TAKEN AT THE LOW POINT OF THE FLOOR SLAB TO ALLOW TILE TO BE FLUSH WITH VARIATION IN FLOOR SLAB
3. USE SCHLUTER QUADEC TRANSITION STRIP FOR ALL OUTSIDE CORNERS OF TILE CONDITIONS AND UNFINISHED EXPOSED EDGES OF TILE INSTALLATION. MITER OUTSIDE CORNERS OF TRIM. BUTT JOINTS ARE NOT ALLOWED. FINISH ALIGNMENT
4. TILE SOFT JOINTS TO MATCH GROUT COLOR. RE: SPECIFICATIONS FOR ADDITIONAL INFORMATION. INSTALL TILE AT WALLS WITH FULL PIECE AT FLOOR, CUTS TO OCCUR AT CEILING IF NEEDED, UNLESS NOTED OTHERWISE

PAINT

1. ALL GYPSUM BOARD WALLS TO BE PAINTED PT-1, UNLESS NOTED OTHERWISE
2. DOOR FRAMES TO BE PT-1, UNLESS NOTED OTHERWISE
3. ALL ELECTRICAL PANEL DOORS, AND WALL AND CEILING GRILLES ARE TO HAVE A FINISH TO MATCH ADJACENT SURFACE, UNLESS NOTED OTHERWISE
4. SWITCH PLATES AND ELECTRICAL DEVICES ARE NOT TO BE PAINTED

FLOORING

1. CHANGES IN FLOORING HEIGHTS UP TO 1/4 INCH MAY BE VERTICAL AND WITHOUT REDUCING EDGE TREATMENT. CHANGES IN FLOORING HEIGHTS BETWEEN 1/4 INCH AND 1/2 INCH SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2. IF CHANGES IN FLOORING LEVEL ARE GREATER THAN 1/2 INCH, NOTIFY ARCHITECT FOR DETAILS TO PROVIDE ADA COMPLIANT RAMP.
2. ALL FLOORING TRANSITIONS ARE TO OCCUR AT THE CENTERLINE OF DOOR, UNLESS NOTED OTHERWISE
3. PROVIDE STAINLESS STEEL SCHLUTER TRANSITION STRIP BETWEEN CHANGE IN FLOOR SURFACE, UNLESS NOTED OTHERWISE
4. PROVIDE THRESHOLD AT TRANSITION FROM WET AREAS

CASEWORK

1. CONTRACTOR TO FIELD MEASURE AND VERIFY ALL DIMENSIONS PRIOR TO FABRICATION AND INSTALLATION OF CASEWORK.
2. REFER TO FLOOR PLANS AND INTERIOR ELEVATIONS FOR EXACT LOCATIONS OF CASEWORK.
3. COUNTERTOPS AND BACKSPLASHES TO RECEIVE CLEAR SEALANT AT WALL
4. ALL SOLID SURFACE COUNTERS TO BE 96" UNLESS NOTED OTHERWISE
5. PROVIDE SIDE, TOP, AND BOTTOM FILLER PIECES AS REQUIRED TO COMPLETE THE CASEWORK AS INDICATED ON THE PLANS AND INTERIOR ELEVATIONS
6. PROVIDE FINISHED END PANELS AT ALL EXPOSED CABINET ENDS, KNEE SPACES, AND BANQUETTE ENDS
7. PROVIDE FILLER STRIPS TO MATCH ADJACENT CABINETS AT ALL NOTED LOCATIONS. MAXIMUM FILLER WIDTH 3 INCHES

FINISH LEGEND

FLOOR FINISH

LVT-1 MANUFACTURER: MATCRAFT
STYLE: HOMEGRAIN
COLOR: VERANDA 00110
SIZE: 6" x 48"
INSTALLATION: STAGGERED

C-1 SEALED CONCRETE

T-1 MANUFACTURER: CROSSVILLE
STYLE: PORTUGAL
COLOR: HARVEST TAUNY
SIZE: 12" x 24"
THICKNESS: 10.5 MM
INSTALLATION: BRICK

T-2 MANUFACTURER: CROSSVILLE
STYLE: PORTUGAL
COLOR: VENIZ VERDE
SIZE: 12" x 24"
THICKNESS: 10.5 MM
INSTALLATION: BRICK
GROUT: MAPEI: COLOR: WARM GRAY 33

MILLWORK

PL-1 MANUFACTURER: FORMICA
COLOR: NEOCLOUD
FINISH: MATTE

HP-1 MANUFACTURER: SHERWIN WILLIAMS
COLOR: MARCH WIND SW 6668
FINISH: GLOSS: EPOXY FOR BATHROOM

WALL FINISH

PT-1 MANUFACTURER: SHERWIN WILLIAMS
COLOR: WESTHIGHLAND WHITE SW 7566
FINISH: EGGSHELL FOR WALLS; SEMI-GLOSS FOR BATHROOM
CEILING: FLAT FOR ALL OTHER CEILINGS

PT-2 MANUFACTURER: SHERWIN WILLIAMS
COLOR: CITYSCAPE SW7067
FINISH: SEMI-GLOSS FOR DOORS AND TRIM

WT-1 (BATHROOM)
MANUFACTURER: MOSA
STYLE: COLORS
COLOR: LIGHT GREY 6400
SIZE: 4" x 12"
INSTALLATION: BRICK: VERTICAL
GROUT: MAPEI: COLOR: FROST 11

WT-1 (KITCHEN)
MANUFACTURER: MOSA
STYLE: COLORS
COLOR: LIGHT GREY 6400
SIZE: 4" x 12"
INSTALLATION: BRICK: HORIZONTAL
GROUT: MAPEI: COLOR: FROST 11

BASE FINISH

WD-1 STYLE: 1 X 4" WOOD BASE BOARD
COLOR: P2

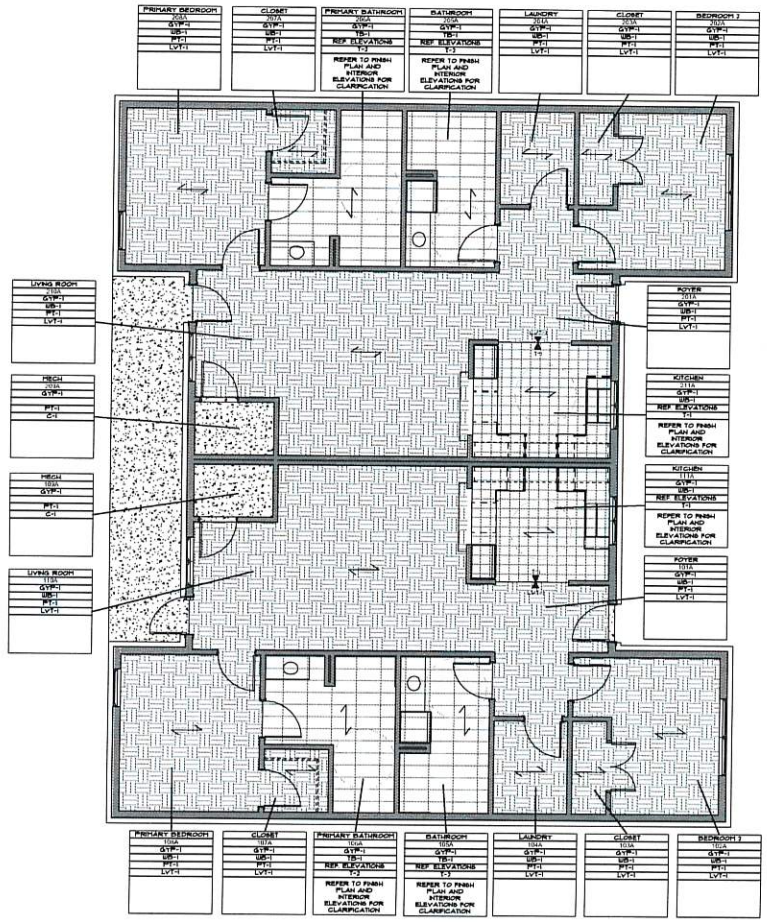
TB-1 MANUFACTURER: CROSSVILLE
STYLE: PORTUGAL
COLOR: TO BE DETERMINED
SIZE: 6" x 24"
INSTALLATION: BULLNOSE
GROUT: MAPEI: COLOR: SILVER 21

CEILING FINISH

GYP-1 GYPSUM WALL BOARD
FINISH: PAINT (PT-1)

KEYED FINISH REMARKS

1. PROVIDE APPROPRIATE SCHLUTER TRANSITION STRIPS AT ALL FLOORING CHANGES
2. WT-1 TO BE USED ON WALLS IN SHOWER AND WALL AREAS
3. ALL WALLS TO BE PAINTED OTHERWISE NOTED OTHERWISE NOTED TO ELEVATIONS AND FLOOR FINISH PLANS
4. ALL INTERIOR GYP. WALLS TO BE ORANGE PEEL (LEVEL 3) FINISH
5. ALL WALLS TO HAVE WOOD BASE WD-1 UNLESS NOTED OTHERWISE
6. KITCHEN AND BATHROOM WALL BASE TO BE TB-1
7. ALL ELECTRICAL, SWITCH, POWER, ETC. COVER PLATES TO BE WHITE
8. ALL MILLWORK HARDWARE TO BE STAINLESS STEEL



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

REFER TO SITE PLAN

blue river ARCHITECTS
A Native American Owned Firm

STATE OF OKLAHOMA
THOMAS C. BIRD
No. 18183
TULSA, OK
LICENSED ARCHITECT
4/27/23

HACN BIRDTAIL ADDITION

18511 SOUTH 525 ROAD
TAHLEQUAH, OK 74464

ID001.A
INTERIOR FINISH PLAN

blueriver ARCHITECTS
A Native American Owned Firm

BLUE RIVER PROJECT NUMBER
202102 12.19

ISSUE DATE
04/27/2023

ISSUE
CONSTRUCTION DOCUMENTS

OTHER ISSUE DATES

NO.	DESCRIPTION	DATE

SHEET NAME
INTERIOR FINISH PLAN

SHEET NUMBER
ID001.A

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DESIGN PARAMETERS

1. DESIGN CODES AND STANDARDS

A. BUILDING CODE: IRC 2018
RISK CATEGORY: II

B. MATERIAL CODES AND STANDARDS
DESIGN LOADS:
ANSI/ASCE 7-16 - MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
CONCRETE:
ACI 318-14 - BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
WOOD:
ANSI/AWC NDS-2018 - NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION
ANSI/AWC SDPWS-2015 - SPECIAL DESIGN PROVISIONS FOR WIND AND SEISMIC

2. GRAVITY LOADS

A. ROOF DEAD LOADS

ROOFING	6 PSF
SHEATHING	3 PSF
MECH., ELEC. AND PLUMBING	2 PSF
CEILINGS AND INSULATION	8 PSF
TOTAL SUPERIMPOSED ROOF DEAD LOAD	19 PSF
MINIMUM ROOF DEAD LOAD (TO BE USED WITH GROSS UPLIFT)	9 PSF

B. LIVE LOADS (UNIFORM/CONCENTRATED)

ROOF	20 PSF / 300 LB
UNINHABITABLE ATTIC WITHOUT STORAGE	10 PSF

3. ROOF SNOW LOAD

A. GROUND SNOW LOAD, p_g 10 PSF

4. WIND DESIGN DATA

A. ULTIMATE DESIGN WIND SPEED (3 SECOND GUST), V_{ult} 107 MPH
NOMINAL DESIGN WIND SPEED (3-SECOND GUST), V_{asd} 83 MPH

B. WIND EXPOSURE CATEGORY: C

C. INTERNAL PRESSURE COEFFICIENT, $(GC)_{pi}$: +/- 0.18

D. DESIGN WIND PRESSURE ON COMPONENTS AND CLADDING

ROOF PRESSURES (1.0W)	EFFECTIVE WIND AREA	
	10 SQ. FT.	100 SQ. FT.
ZONE 1	-31.2 PSF	-26.0 PSF
ZONE 2r	-34.8 PSF	-31.3 PSF
ZONE 2e	-41.6 PSF	-37.1 PSF
ZONE 3	-47.9 PSF	-37.1 PSF
ZONE 1, 2, & 3	18.6 PSF	14.6 PSF

WALL PRESSURES (1.0W)	EFFECTIVE WIND AREA	
	10 SQ. FT.	1000 SQ. FT.
ZONE 4	-40.1 PSF	-35.7 PSF
ZONE 5	-33.4 PSF	-35.7 PSF
ZONE 4 & 5	26 PSF	14.6 PSF

NOTES:
1. RE ASCE 7-16 FIGURES 30.3-1, 30.3-2B, AND 30.3-2C
2. REFER TO CODE FOR EFFECTIVE TRIBUTARY AREAS NOT LISTED
3. POSITIVE VALUES SIGNIFY PRESSURES ACTING TOWARD THE NOTED SURFACE AND NEGATIVE VALUES SIGNIFY PRESSURES ACTING AWAY FROM THE NOTED SURFACE

E. WIDTH OF END ZONE: 4.8 FT

5. EARTHQUAKE DESIGN DATA

A. SEISMIC IMPORTANCE FACTOR, I_e: 1.0

B. MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETER, S_s: 0.129

C. MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETER, S_1: 0.076

D. SITE CLASS: D

E. DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETER, S_{DS}: 0.148

F. DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETER, S_{D1}: 0.126

G. SEISMIC DESIGN CATEGORY: B

H. STRUCTURAL SYSTEM
1.) VERTICAL ELEMENT TYPE: BEARING WALL SYSTEMS
2.) BASIC SEISMIC FORCE-RESISTING SYSTEM TYPE: LIGHT-FRAME (WOOD) WALLS SHEATHED WITH WOOD STRUCTURAL PANELS RATED FOR SHEAR RESISTANCE
3.) RESPONSE MODIFICATION FACTOR, R: 6.5
4.) SEISMIC RESPONSE COEFFICIENT, C_S: 0.023
5.) DESIGN BASE SHEAR, V_{BS}: 0.023W

I. ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE

GENERAL NOTES

GENERAL

1. STRUCTURAL ELEMENTS ARE NON-SELF SUPPORTING AND REQUIRE INTERACTION WITH OTHER ELEMENTS FOR STABILITY AND RESISTANCE TO LATERAL FORCES. FRAMING AND WALLS SHALL BE TEMPORARILY BRACED BY THE CONTRACTOR UNTIL PERMANENT BRACING, ROOF AND ROOF DECKS, AND WALLS HAVE BEEN INSTALLED AND CONNECTIONS BETWEEN THESE ELEMENTS HAVE BEEN MADE.
2. THE CONTRACT DOCUMENTS REPRESENT THE FINISHED STRUCTURE AND DO NOT DEDICATE THE METHOD OF CONSTRUCTION, UNLESS NOTED OTHERWISE. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES, AND OPERATION OF CONSTRUCTION AND SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL THERETO.
3. THE STRUCTURE HAS BEEN DESIGNED FOR THE INDICATED LOADS ONLY. USE OF HEAVY EQUIPMENT AND SCAFFOLDING, OR STORAGE OF MATERIALS THAT TRANSMIT EXCESSIVE LOADS TO THE STRUCTURE SHALL BE VERIFIED BY THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE CALCULATIONS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED, TO VERIFY THE ADEQUACY OF THE STRUCTURE FOR ALL APPLIED CONSTRUCTION LOADS THAT EXCEED THE LOADS INDICATED IN THE CONSTRUCTION DOCUMENTS AND SHALL BE APPROVED BY THE ARCHITECT AND ENGINEER-OF-RECORD PRIOR TO ANY CONSTRUCTION ACTIVITY.
4. THE SPECIFICATIONS ARE AN INTEGRAL PART OF THE CONTRACT DOCUMENTS AND SHALL BE USED IN CONJUNCTION WITH THE CONTRACT DRAWINGS. WHERE REQUIREMENTS INDICATED ON THE CONTRACT DRAWINGS DIFFER FROM THE SPECIFICATIONS, NOTIFY THE ARCHITECT AND THE ENGINEER-OF-RECORD.
5. STRUCTURAL DRAWINGS ARE NOT STAND-ALONE DOCUMENTS AND ARE INTENDED TO BE USED IN CONJUNCTION WITH CIVIL, ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND DRAWINGS CONTRACT DOCUMENTS INTO 5-XP DRAWINGS AND WORK.
6. ALL WELDS SHALL BE PERFORMED BY QUALIFIED WELDERS IN ACCORDANCE WITH AMERICAN WELDING SOCIETY (AWS) SPECIFICATIONS.
7. THE SIZE AND LOCATION OF EQUIPMENT PADS AND PENETRATIONS THROUGH THE STRUCTURE FOR MECHANICAL, ELECTRICAL, AND PLUMBING WORK SHALL BE VERIFIED BY THE CONTRACTOR. PENETRATIONS SHALL BE SUBJECT TO APPROVAL BY THE ARCHITECT AND THE ENGINEER-OF-RECORD. REFERENCE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR OPENING LOCATIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS.
8. USE ONLY DIMENSIONS INDICATED IN THE CONTRACT DOCUMENTS. DO NOT SCALE CONTRACT DOCUMENTS OR USE ANY DIMENSIONS TAKEN FROM ELECTRONIC DRAWING FILES. CONTRACTOR SHALL COORDINATE AND ADJUST DIMENSIONS BASED ON TOLERANCES OF THE RESPECTIVE TRADES.
9. ASSUME EQUAL SPACING IF NOT INDICATED IN CONTRACT DOCUMENTS.
10. REFERENCE ARCHITECTURAL DRAWINGS FOR NON-LOAD BEARING PARTITION FRAMING. CONNECTION OF NON-LOAD BEARING PARTITION FRAMING TO THE PRIMARY STRUCTURE SHALL ALLOW FOR VERTICAL LIVE LOAD DEFLECTIONS OF THE FLOOR AND ROOF FRAMING.
11. CONTRACTOR SHALL COORDINATE ALL DIMENSIONS, OPENING, BLOCKOUTS, RECESSES, ELEVATIONS, ANCHOR RODS AND EMBED LOCATIONS PRIOR TO CONSTRUCTION.

FOUNDATIONS

1. FOOTING DESIGNS ARE BASED ON AN ASSUMED STABLE, NON-EXPANSIVE SOIL WITH A NET ALLOWABLE BEARING PRESSURE OF 1,500 PSF WITH A MAXIMUM DIFFERENTIAL SETTLEMENT OF 1/2 INCH. THE OWNER SHALL HIRE A REGISTERED GEOTECHNICAL ENGINEER LICENSED IN THE STATE OF OKLAHOMA TO DETERMINE WHETHER OR NOT THE SOIL MEETS THE MINIMUM CRITERIA. THE GEOTECHNICAL ENGINEER SHALL MAKE RECOMMENDATIONS AND VERIFY CONFORMANCE OF EXCAVATION, SCARIFYING, PROOF-ROLLING, FILL CLASSIFICATION, MAXIMUM PARTICLE SIZE, LIQUID LIMIT, PLASTICITY INDEX AND PLACEMENT PROCEDURES.
2. IF THE CRITERIA CANNOT BE MET, THE ENGINEER OF RECORD AND DELEGATED DESIGN ENGINEER SHALL BE NOTIFIED SO THAT THE FOUNDATION MAY BE REDESIGNED ACCORDINGLY.
3. EXTERIOR FOOTINGS SHALL BEGIN AT OR BELOW MINIMUM BEARING DEPTH. MINIMUM BEARING DEPTH IS 2 FEET BELOW THE LOWEST ADJACENT GRADE.
4. ALL VEGETATION, ROOTS, TOPSOIL, AND ANY OTHER DELETERIOUS MATERIALS SHALL BE REMOVED FROM THE CONSTRUCTION AREA. ALL MATERIALS DISTURBED DURING CLEARING OPERATIONS SHALL BE STABILIZED IN PLACE OR UNDERCUT TO UNDISTURBED MATERIALS AND BACKFILLED WITH PROPERLY COMPACTED, APPROVED STRUCTURAL FILL.
5. FOUNDATIONS, TRENCHES, BASEMENT WALLS AND ABANDONED UTILITY LINES FROM EXISTING STRUCTURES SHALL BE REMOVED.
6. THE EXPOSED GRADE SHALL BE SCARIFIED TO A DEPTH OF AT LEAST 12 INCHES AND PROOF-ROLLED USING A FULLY LOADED TANDEM AXLE DUMP TRUCK (DOTOR MINIMUM). ANY SOFT LOOSE SOILS, ORGANIC MATERIALS, SHALLOW SWEEPS, AND PROOF FRAGMENTS, SHALL BE REMOVED. ANY OTHER UNSUITABLE MATERIALS ENCOUNTERED SHALL BE REMOVED FROM THE PROPOSED BUILDING AREA AND REPLACED WITH APPROVED STRUCTURAL FILL.
7. PRIOR TO PLACEMENT OF NEW FILL, THE EXPOSED SUBGRADE SHALL BE MOISTURE CONDITIONED AND COMPACTED TO AT LEAST 95% STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D-698) AT A MOISTURE CONTENT WITHIN 2% MELOW TO 3% ABOVE THE OPTIMUM.
8. A REGISTERED GEOTECHNICAL ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED AND MORRISON FOR THE TESTING LABORATORY SHALL VERIFY CONFORMANCE OF THE FOUNDATION BEARING STRATA TO THE CRITERIA LISTED AND SHALL VERIFY ALL FILL COMPACTION AND PLACEMENT.
9. THE CONTRACTOR SHALL BE SOLE RESPONSIBLE FOR DETERMINING EXACT QUANTITIES OF CUT AND FILL FOR ESTIMATING AND CONSTRUCTION.
10. STRUCTURAL FILL SHALL CONSIST OF LOW-PLASTICITY APPROVED MATERIALS THAT ARE FREE OF VEGETATION, TOPSOIL AND OTHER DELETERIOUS MATERIALS. THE ORGANIC CONTENT SHALL BE LESS THAN 10 PERCENT. STRUCTURAL FILL SHALL HAVE A LIQUID LIMIT (LL) LESS THAN 40, A PLASTICITY INDEX (PI) LESS THAN 20, A MAXIMUM DRY DENSITY GREATER THAN 100 PCF AND MORE THAN 15% PASSING THE #200 SIEVE. FILL SHALL BE LABORATORY TESTED TO VERIFY CONFORMANCE.
11. FILL SHALL BE PLACED IN 8 INCH TO 12 INCH LOOSE LIFTS AND COMPACTED TO AT LEAST 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D-698) AT A MOISTURE CONTENT WITHIN 2% BELOW TO 3% ABOVE THE OPTIMUM. EACH LIFT OF COMPACTED REMOLDED FILL SHALL BE TESTED BY A GEOTECHNICAL ENGINEER.
12. THE EDGES OF COMPACTED FILL SHALL EXTEND A MINIMUM OF 5 FEET BEYOND THE EDGES OF THE STRUCTURE.
13. ALL BEARING MATERIAL SHALL BE INSPECTED BY THE INDEPENDENT TESTING AGENCY PRIOR TO CONCRETE PLACEMENT. THE INDEPENDENT TESTING AGENCY SHALL CONFIRM THE SUITABILITY OF THE BEARING MATERIAL.
14. FOUNDATION WALLS SHALL HAVE ADEQUATE TEMPORARY BRACING INSTALLED BY THE CONTRACTOR BEFORE BACKFILL IS PLACED AGAINST THEM. TEMPORARY BRACING SHALL NOT BE REMOVED UNTIL WALLS ARE PERMANENTLY BRACED.
15. AVOID DAMAGE TO UNDERGROUND UTILITIES INCLUDING, BUT NOT LIMITED TO, WATER MAINS, SANITARY SEWERS AND BURIED CABLES WHICH MIGHT EXISTING ACROSS OR ALONG SITE.
16. FOUNDATIONS ARE EXPECTED TO SLIGHTLY DEFORM AND MOVE DUE TO MOISTURE VARIATIONS IN THE SOIL. IF ENGINEER NOTES THAT NON-LOAD BEARING OR LIGHTLY LOADED WALLS SUPPORTED ON THE FLOOR SLAB DUE TO DIFFERENTIAL TOTAL AND DIFFERENTIAL MOVEMENTS SIMILAR TO THAT OF NORMAL BEARING PARTITION WALLS PLACED ON THE FLOOR SLAB, SPECIAL FRAMING DETAILS SHOULD BE PROVIDED AT DOOR JAMBS AND FRAMES WITHIN PARTITION WALLS TO AVOID POTENTIAL DISTORTION. JOINTS SHOULD BE PLACED IN THE PARTITION WALLS TO HELP TO LIMIT THE EFFECTS OF DIFFERENTIAL MOVEMENTS. PARTITION WALLS SHOULD BE ISOLATED FROM CEILINGS.
17. HIGHLY EXPANSIVE SOILS ARE MOISTURE CONDITIONED TO REDUCE OR PREVENT FUTURE SWELL.
18. ADEQUATE POSITIVE DRAINAGE SHALL BE PROVIDED SLOPING AWAY FROM THE FOUNDATION WITH A MINIMUM SLOPE OF 3.5% (1 INCH TO 5.5 INCH PER FOOT) FOR A MINIMUM DISTANCE OF 10 FEET. FROM EDGE OF FOUNDATION. ADEQUATE POSITIVE DRAINAGE TO PREVENT PONDING NEAR THE FOUNDATION SHALL BE MAINTAINED AT ALL TIMES, BOTH DURING AND AFTER CONSTRUCTION.
19. VEGETATION SHALL NOT BE PLANTED CLOSER TO THE FOUNDATION THAN ONE-HALF THE HEIGHT EXPECTED AT MATURITY. 20 FEET OR MORE RECOMMENDED FOR TREES UNLESS A ROOT BARRIER IS INSTALLED, AND WATERING IS CONTROLLED TO PREVENT SATURATION AND FLOODING (ITS RECOMMENDED TO MOISTEN JUST ON THE PERIMETER EACH TIME). PLANTING BEDS SHALL BE DESIGNED TO DRAIN. SOIL MOISTURE CONTENT SHALL BE REVIEWED AND ADDRESSED UPON TREE REMOVAL WITHIN THE BUILDING PLAN AREA.
20. GENERAL WORST EMBUSTIVE THE SOIL'S MOISTURE CONTENT IS MAINTAINED AT A CONSTANT LEVEL SURROUNDING THE FOUNDATION. DO NOT ALLOW THE SOIL TO DRY OUT AND DO NOT ALLOW WATER TO COLLECT WITHIN 10 FEET OF BUILDING FOUNDATION. DOWNSPOUTS SHOULD DISCHARGE A MINIMUM OF 10 FEET FROM BUILDING FOUNDATION. SIDEWALKS AND EXTERIOR PAVEMENT NOT INCLUDED IN THE DESIGN SHALL BE CONNECTED TO WATER-TIGHT EXPANSION JOINTS AND SHALL BE PLACED AND DRAINED SUCH THAT SURFACE WATER IS NOT TRAPPED NEAR THE FOUNDATION.

GENERAL NOTES

CONCRETE

1. MINIMUM COMPRESSIVE STRENGTH (f'c) AT THE END OF 28 DAYS SHALL BE AS FOLLOWS:
   A. FOOTINGS: 3000 PSI
   B. INTERIOR SLABS-ON-GRADE: 3000 PSI
   C. EXTERIOR STRUCTURAL CONCRETE: 4500 PSI

   MAXIMUM WATER/CEMENT RATIO = 0.40. MAXIMUM SLUMP = 6 INCHES, PLUS OR MINUS 1 INCH FOR CONCRETE WITH VIBRATED SLUMP OF 5 INCHES PLUS OR MINUS 1 INCH BEFORE ADDING HIGH-RANGE WATER-REDUCING AND/OR FLOW OR PLASTICIZING ADMIXTURE AT PRIOR TO SITE. CONCRETE SHALL BE NORMAL WEIGHT (145 PCF), UNLESS NOTED OTHERWISE.
2. EXTERIOR CONCRETE AND CONCRETE EXPOSED TO FREEZE-THAW CYCLES SHALL BE AIR-ENTRAINED. AIR CONTENT = 6 PERCENT, PLUS OR MINUS 1.5 PERCENT AT POINT OF DELIVERY FOR CONCRETE CONTAINING 1-INCH NOMINAL MAXIMUM AGGREGATE SIZE.
3. MATERIALS OR ADMIXTURES SHALL NOT CONTAIN ANY CALCIUM CHLORIDE.
4. REINFORCING STEEL SHALL MEET THE FOLLOWING:

	ASTM SPECIFICATION
A. DEFORMED BARS	A615, GRADE 60
B. WELDABLE DEFORMED BARS	A706, GRADE 60
C. WELDED WIRE REINFORCEMENT	A1064

5. PROVIDE MINIMUM CONCRETE CLEAR COVER FOR REINFORCEMENT PER ACI 318, UNLESS NOTED OTHERWISE.
6. WELDING SHALL MEET ANSI / AWS D1.1, STRUCTURAL WELDING CODE AND ANSI / AWS D1.4 STRUCTURAL WELDING CODE FOR REINFORCING STEEL, LATEST REVISION. ELECTRODES FOR DEFORMED BAR ANCHORS SHALL BE XX-E70 LOW HYDROGEN.
7. WHERE DOWELS ARE INDICATED BUT NOT SIZED, PROVIDE DOWELS THAT MATCH SIZE AND LOCATION OF MAIN REINFORCING STEEL AND LAP SPLICE WITH THE MAIN REINFORCING STEEL. REINFORCING STEEL SHALL BE SPLICED AS NOTED IN THE REINFORCING LAP SCHEDULE.
8. PROVIDE CORNER BARS THAT MATCH AND LAP CONTINUOUS REINFORCEMENT SIZE AND QUANTITY AT INTERSECTIONS AND CORNERS OF WALLS AND FOUNDATIONS.
9. ANCHOR BOLTS AND EMBED PLATES SHALL BE TIED INTO THE REINFORCING STEEL CAGE AND HELD IN PLACE WITH A RIGID TEMPLATE TO PREVENT MOVEMENT DURING CONCRETE PLACEMENT.

WOOD FRAMING

1. WOOD FRAMING SHALL MEET THE NDS MINIMUM STRESS PROPERTIES UNLESS NOTED OTHERWISE IN CONTRACT DOCUMENTS:
   A. DOUGLAS FIR SOUTH, PER THE NDS
      1. ROOF RAFTERS AND CEILING FRAMING: #2 OR BETTER
      2. WALL STUD FRAMING: STUD GRADE OR BETTER
   B. LAMINATED VENEER LUMBER (LVL)
      1. F_b = 2,600 PSI
      2. F_t = 1,850 PSI
      3. F_c = 2,510 PSI (PARALLEL TO GRAIN)
      4. F_v = 290 PSI (PERPENDICULAR TO GRAIN)
      5. F_v = 285 PSI (PARALLEL TO GRAIN)
      6. E = 2,000,000 PSI
2. PROVIDE SIMPSON STRONG-TIE CONNECTORS OR EQUIVALENT FOR WOOD FRAMING CONNECTING TO SUPPORTING MEMBERS. INSTALL WITH MANUFACTURER'S SPECIFIED FASTENERS. ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS. SUBSTITUTION REQUESTS FOR CONNECTORS SHALL BE SUBMITTED BY THE CONTRACTOR TO THE STRUCTURAL ENGINEER-OF-RECORD ALONG WITH CALCULATIONS THAT ARE SIGNED AND SEALED BY A QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION AND LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED. THE CALCULATIONS SHALL DEMONSTRATE THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERTINENT EQUIVALENT PERFORMANCE VALUES OF THE SPECIFIED PRODUCT USING THE APPROPRIATE DESIGN PROCEDURE AND ON STANDARDS AS REQUIRED BY THE BUILDING CODE.
3. ALL ROOF AND EXTERIOR WALL SHEATHING SHALL BE APA RATED EXPOSURE 1 SHEATHING (LUX.D) SHALL MINIMUM 1/2 INCH THICKNESS OR AS APPROVED FOR SHEATHING.
4. INSTALL ROOF SHEATHING WITH THE LONG DIMENSION OF THE PANEL PERPENDICULAR TO SUPPORTS UNLESS NOTED OTHERWISE IN CONTRACT DOCUMENTS, AND WITH PANEL CONTINUOUS OVER TWO OR MORE SPANS. STAGGER END JOINTS, UNLESS NOTED OTHERWISE. SPACE PANELS 1/8" APART AT EDGES AND END. PROVIDE H-CLIPS AT UNSUPPORTED PANEL JOINTS.
5. ALL EXTERIOR WALL SHEATHING SHALL HAVE A MINIMUM THICKNESS OF 15/32 INCH AND SHALL BE FASTENED TO WALL STUDS WITH 8d COMMON DIAMOND NAILS AT 6 INCHES ON CENTER AT EDGES AND 12 INCHES ON CENTER AT INTERMEDIATE SUPPORTS. PROVIDE BLOCKING AT UNSUPPORTED PANEL EDGES. 8d COMMON NAILS SHALL HAVE A MINIMUM 0.131 INCH DIAMETER AND 1 3/8 INCH MINIMUM PENETRATION INTO STUD MEMBERS.
6. INSTALL ALL JOISTS, RAFTERS, HEADERS AND BEAMS CROWN UP.
7. ALL JOISTS SHALL HAVE DIAGONAL BRIDGING OR FULL DEPTH BLOCKING AT 6'-0" ON CENTER MAXIMUM ALONG THE SPAN AND AT SUPPORTING BEAMS OR WALLS.
8. REFERENCE DETAILS FOR CUTTING, BORING OR NOTCHING OF FRAMING MEMBERS, WALL STUDS AND TOP PLATES.
9. FASTEN PLIES OF ENGINEERED WOOD PRODUCTS TOGETHER PER THE MANUFACTURERS RECOMMENDATIONS OR AS DETAILED IN THE CONSTRUCTION DOCUMENTS. REFERENCE BUILT-UP COLUMN AND BEAM DETAILS FOR NAILED BUILT-UP COLUMN AND BEAM REQUIREMENTS. SPLICES IN MULTIPLE BUILT-UP MEMBERS ARE NOT PERMITTED UNLESS.
10. PROVIDE SLIP CONNECTION AT TOP OF ALL NON-LOAD BEARING WALLS TO ALLOW FOR 1 1/2" DEFLECTION OF FRAMING ABOVE.
11. ALL WOOD IN CONTACT WITH CONCRETE AND EXTERIOR MASONRY SHALL BE PRESERVATIVE TREATED.
12. ALL STEEL CONNECTORS AND FASTENERS USED WITH PRESERVATIVE TREATED WOOD SHALL BE GALVANIZED (304).
13. NAILING SHALL COMPLY WITH REQUIREMENTS OF NAILING SCHEDULE UNLESS NOTED OTHERWISE IN CONTRACT DOCUMENTS.
14. ALL NAILS SHOWN ARE PLAIN ARE COMMON, UNLESS NOTED OTHERWISE. REFERENCE NAIL SIZE SCHEDULE FOR REQUIRED COMMON NAIL SIZES.

POST INSTALLED ANCHORS

1. ANCHORS SHALL ONLY BE INSTALLED WHERE SPECIFIED ON THE CONTRACT DRAWINGS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE STRUCTURAL ENGINEER PRIOR TO INSTALLING POST INSTALLED ANCHORS IN PLACE OF MISSING OR MISPLACED CASTIN-PLACE ANCHORS. CARE SHALL BE TAKEN IN PLACING POST-INSTALLED ANCHORS TO AVOID CONFLICTS WITH EXISTING REINFORCING. ANY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE EOR PRIOR TO COMPLETION OF WORK.
2. THE ANCHOR PRODUCT SUBMIT PRODUCT DATA WITH DESIGN VALUES AND PHYSICAL PROPERTIES FOR ALL POST INSTALLED ANCHORS. ADDITIONALLY, THE CONTRACTOR SHALL SUBMIT CERTIFIED IOS 89 CERTIFICATE REPORTS WHICH VERIFY COMPLIANCE WITH THE SPECIFIED CRITERIA.
3. SUBSTITUTION REQUESTS FOR PRODUCTS OTHER THAN THOSE SPECIFIED ON THE CONTRACT DRAWINGS SHALL BE SUBMITTED BY THE CONTRACTOR TO THE STRUCTURAL ENGINEER ALONG WITH CALCULATIONS THAT ARE SIGNED AND SEALED BY A QUALIFIED PROFESSIONAL ENGINEER. RESPONSIBLE FOR THEIR PREPARATION AND LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED. THE CALCULATIONS SHALL DEMONSTRATE THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERTINENT EQUIVALENT PERFORMANCE VALUES OF THE SPECIFIED PRODUCT USING THE APPROPRIATE DESIGN PROCEDURE AND ON STANDARDS AS REQUIRED BY THE BUILDING CODE.
4. ALL HOLES SHALL BE DRILLED, DRY AND CLEANED AND ANCHORS SHALL BE INSTALLED IN ACCORDANCE PER ANCHOR MANUFACTURER'S WRITTEN SPECIFICATIONS. THE LATEST VERSION OF THE WRITTEN SPECIFICATION SHALL BE ON SITE AND FOLLOWED DURING THE INSTALLATION OF THE ANCHORS.
5. THE ANCHOR EMBEDMENT DEPTH SHALL BE DEFINED AS THE DEPTH FROM THE SURFACE FACE OF THE LOAD BEARING BASE MATERIAL TO THE DEPTHEST PART OF THE ANCHOR AFTER THE ANCHOR HAS BEEN FULLY INSTALLED INTO THE HOLE PER MANUFACTURER'S SPECIFICATIONS.
6. ANCHORS EXPOSED TO WEATHER SHALL BE STAINLESS STEEL.
7. CONTRACTOR SHALL FOLLOW THE LATEST VERSION OF MANUFACTURER'S SPECIFICATION DURING INSTALLATION OF ANCHORS.
8. OVERHEAD ADHESIVE ANCHORS MUST BE INSTALLED BY PERSONNEL CERTIFIED BY THE ADHESIVE ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM.

DEFERRED STRUCTURAL SUBMITTALS (IRC 2018 SECTION 107.3.4.1)

1. THE FOLLOWING STRUCTURAL COMPONENTS SHALL BE DESIGNED AND SUBMITTED BY OTHERS FOR APPROVAL IN ACCORDANCE WITH THE CONTRACT DOCUMENTS:
   A. POST-TENSIONED SLAB ON GRADE AND FOUNDATIONS
2. DOCUMENTED FOR DEFERRED STRUCTURAL SUBMITTAL ITEMS SHALL BE DESIGNED, SEALED AND SIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED. THE DEFERRED SUBMITTAL DOCUMENTS SHALL BE SUBMITTED TO THE ARCHITECT OR ENGINEER-OF-RECORD WHO SHALL REVIEW THEM AND REFORWARD THEM TO THE BUILDING OFFICIAL AS REQUIRED WITH A NOTATION INDICATING THAT THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED FOR DESIGN LOADS AND BEEN FOUND TO BE IN GENERAL CONFORMANCE TO THE DESIGN CRITERIA OF THE BUILDING. THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THE DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.

ABBREVIATIONS

AB	ANCHOR BOLT
ADDL	ADDITIONAL
ADH	ADHESIVE
AEBS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL
AFF	ABOVE FINISHED FLOOR
ALT	ALTERNATE
AOR	ARCHITECT OF RECORD
ARCH	ARCHITECT / ARCHITECTURAL
B	BOTTOM
Bmax	BOTTOM OF max
BFF	BELOW FINISH FLOOR
BL	BLOCK LINTEL
BLDG	BUILDING
BM	BEAM
BP	BASE PLATE
BRG	BEARING
CFMF	COLD FORMED METAL FRAMING
CIP	CAST IN PLACE
CJ	CONTRACTION JOINT
CJP	COMPLETE JOINT PENETRATION
CL	CENTER LINE
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
COMP	COMPOSITE
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
COORD	COORDINATE
CS	COLUMN STRAP
CW	CURTAIN WALL
DBA	DEFORMED BAR ANCHOR
DBE	DECK BEARING ELEVATION
DBL	DOUBLE
DIA	DIAMETER
DL	DEAD LOAD
DN	DOWN
DP	DRILLED PIER
DTL	DETAIL
DWG	DRAWING
DWL	DOWEL
EB	EACH END
EF	EACH FACE
EJ	EXPANSION JOINT
EL	ELEVATION
EMBED	EMBEDMENT / EMBEDDED
ENG	ENGINEER / ENGINEERING
EOD	EDGE OF DECK
EOR	ENGINEER OF RECORD
EOS	EDGE OF SLAB
EQ	EQUAL
EQUIP	EQUIPMENT
EW	EACH WAY
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
Fmax	FACE OF
FD	FLOOR DRAIN
FDN	FOUNDATION
FEL	FINISHED FLOOR ELEVATION
FLR	FLOOR
FS	FAR SIDE
FT	FEET
FTG	FOOTING
FV	FIELD VERIFY
GA	GAUGE
GALV	GALVANIZED
GB	GRADE BEAM
GC	GENERAL CONTRACTOR
GR	GRADE
HORIZ	HORIZONTAL
HS	HIGH STRENGTH
HSA	HEADED STUD ANCHOR
INT	INTERIOR
JBE	JOIST BEARING ELEVATION
JT	JOINT
K	KIPS
KSF	KIPS PER SQUARE FOOT
KSI	KIPS PER SQUARE INCH
LBS	POUNDS
LF	LINEAR FEET
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LONG	LONGITUDINAL
LW	LIGHT WEIGHT
MATL	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
M/E/P	MECHANICAL/ELECTRICAL/PLUMBING
MFR	MANUFACTURER / MANUFACTURING
MIN	MINIMUM
MISC	MISCELLANEOUS
MS	MIDDLE STRIP
MTL	METAL
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NS	NEAR SIDE
NTS	NOT TO SCALE
OAW	AVERAGE WEIGHT
OC	ON CENTER
OH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
PAP	POWDER POWDER ACTUATED FASTENER
PC	PILE / PIER CAP
PCI	PRECAST CONCRETE
PCF	POUNDS PER CUBIC FOOT
PEMB	PRE-ENGINEERED METAL BUILDING
PJF	PREFORMED JOINT FILLER
PJP	PARTIAL JOINT PENETRATION
PL	PLATE
PLF	POUNDS PER LINEAR FOOT
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
R	REACTION
RAD	RADIUS
RD	ROOF DRAIN
REF	REFER TO
REINF	REINFORCING / REINFORCEMENT
REQD	REQUIRED
RO	ROUGH OPENING
RTU	ROOF TOP UNIT
SCHED	SCHEDULE
SDS	SELF-DRILLING SCREWS
SF	SQUARE FEET
SIM	SIMILAR
SP	SPECIAL
SPA	SPACE / SPACING
SPECS	SPECIFICATIONS
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
STIFF	STIFFENER
STL	STEEL
STR	STRUCTURAL / STRUCTURAL
SW	SHEARWALL
SYM	SYMMETRICAL
T	TOP
T&B	TOP AND BOTTOM
TOW	TOP OF WALL
TRANS	TRANSVERSE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
WP	WORK POINT
WWR	WELDED WIRE REINFORCEMENT

blue river ARCHITECTS
A Native American Owned Firm

MICHAEL S. KEPH
20206
04/27/23

wallace design collective

OK. C.A. #1456
EXP. 06/30/23

HACN BIRDTAIL ADDITION

18611 SOUTH 325 ROAD
TAHLEQUAH, OK 74464

S001
GENERAL NOTES

blue river ARCHITECTS
A Native American Owned Firm

BLUE RIVER PROJECT NUMBER:
20210212.19

ISSUE DATE:
04/27/2023

ISSUE:
CONSTRUCTION DOCUMENTS

OTHER ISSUE DATES

NO	DESCRIPTION	DATE

SHEET NAME:
GENERAL NOTES

SHEET NUMBER:
S001

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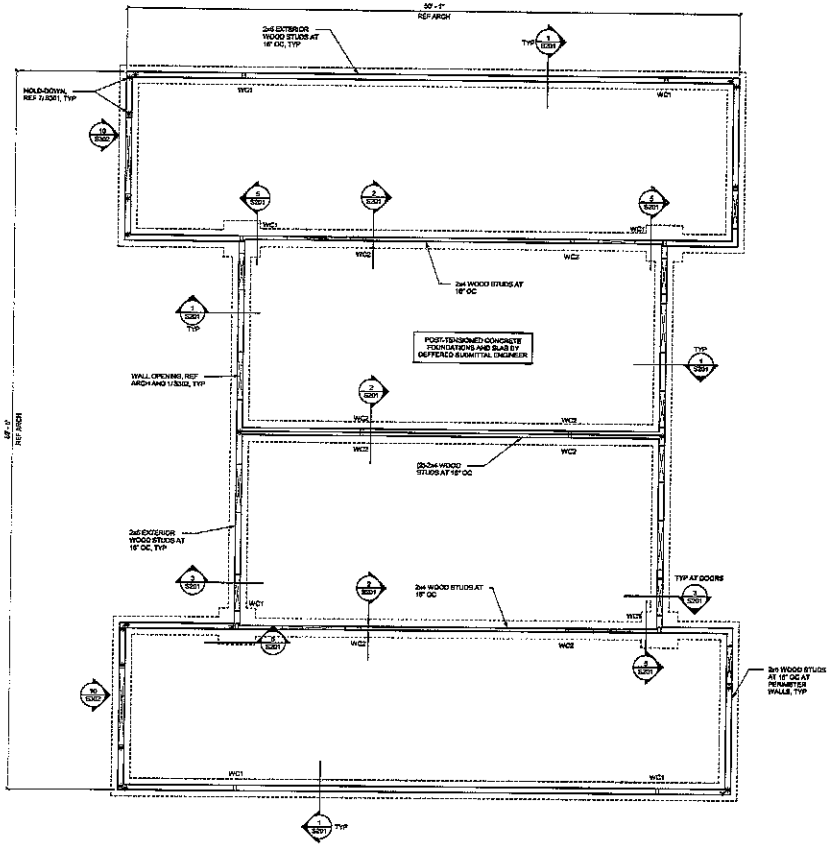
FOUNDATION PLAN NOTES

1. TOP OF SLAB ELEVATIONS ARE INDICATED ON PLANS.
2. REFERENCE ARCHITECTURAL PLANS FOR DIMENSIONS NOT SHOWN. COORDINATE SLAB ELEVATIONS AND SLOPES WITH ARCHITECTURAL PLANS.
3. REFERENCE ARCHITECTURAL AND MEP DRAWINGS FOR SIZE AND LOCATION OF SLAB AND FOUNDATION PENETRATIONS. ALL PENETRATIONS SHALL BE APPROVED BY ARCHITECT AND DEFERRED SUBMITTAL EOR PRIOR TO PLACEMENT. REFERENCE S201 FOR TYPICAL DETAILS.
4. REFERENCE ARCHITECTURAL PLANS FOR SIZE AND LOCATION OF EXTERIOR CONCRETE PADS AND STOOPS.
5. REFERENCE S301 AND S302 FOR TYPICAL WOOD DETAILS.
6. REFERENCE S201 FOR WOOD COLUMN SCHEDULE.

T.O. SLAB ELEVATION
ARCHITECTURAL=100'-0"
STRUCTURAL=100'-2"
(SHAKEPER TO PLANS

PLACE POST-TENSIONED SLAB BY DEFERRED SUBMITTAL ENGINEER OVER A 15 MIL CLASS A VAPOR RETARDER, OVER PROPERLY PREPARED SUBGRADE PER A QUALIFIED GEOTECHNICAL ENGINEER. CONTRACTOR TO HIRE GEOTECHNICAL ENGINEER.



1 FOUNDATION PLAN - 2 BED DUPLEX
1/8" = 1'-0"

blue river ARCHITECTS
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ANDREW M. KEHN
S2000
04/27/23

wallace design collective

OK, C.A. #1460
EXP. 06/30/23

HACN BIRDTAIL ADDITION

86511 SOUTH 525 ROAD
TAHLEQUAH, OK 74464

S101.A
FOUNDATION PLAN - 2 BED DUPLEX

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SHEET NAME
FOUNDATION PLAN - 2 BED DUPLEX

SHEET NUMBER
S101.A

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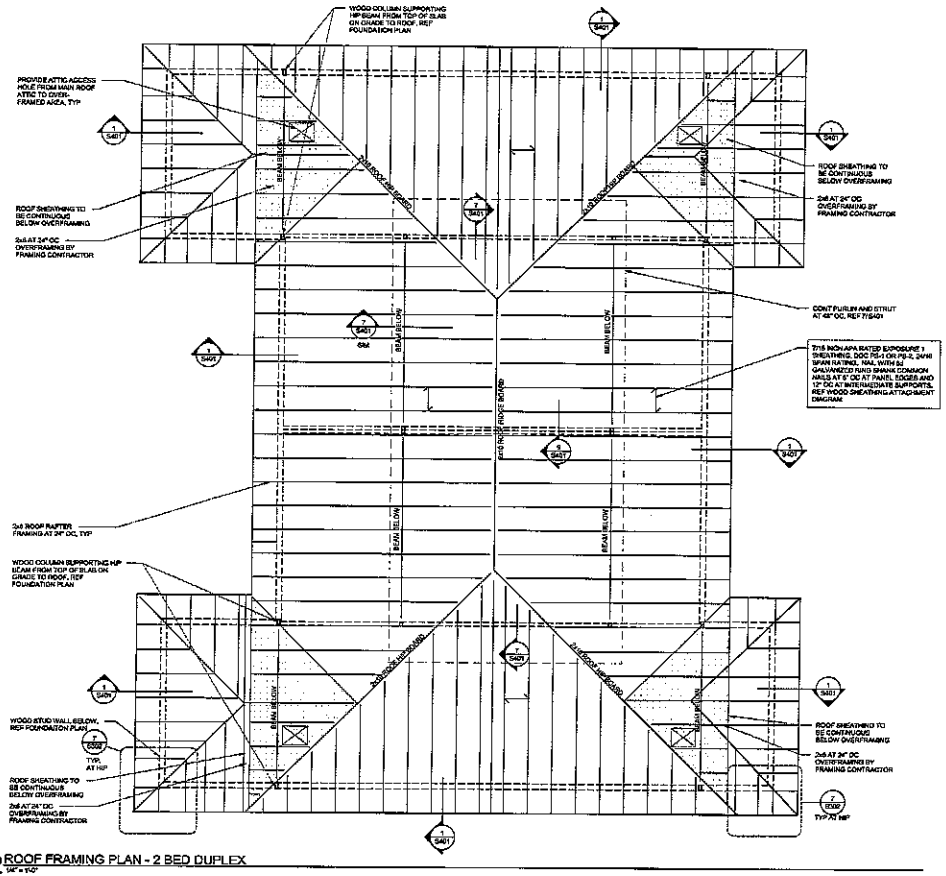
ROOF FRAMING PLAN NOTES

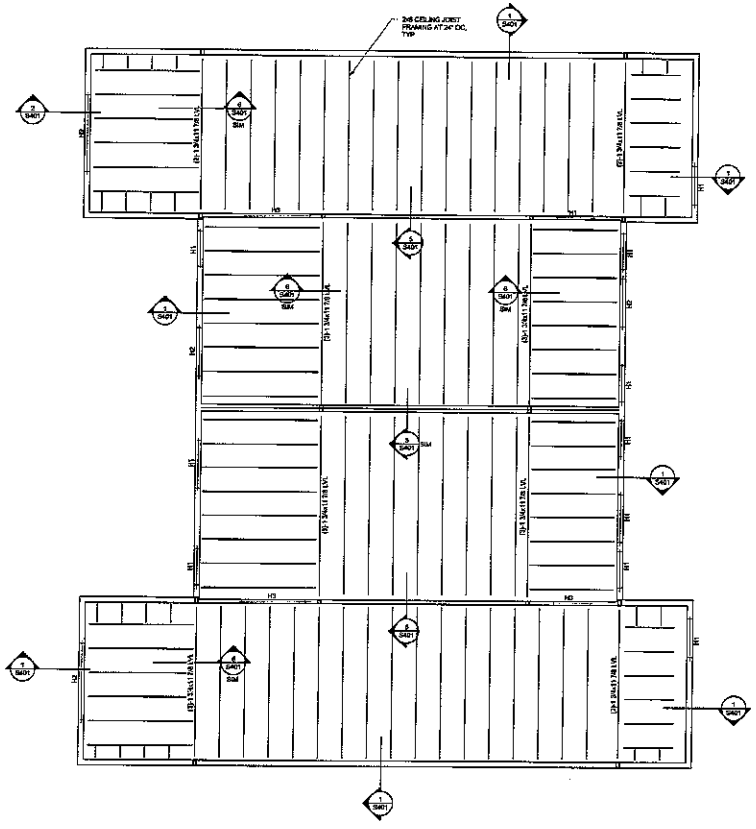
1. REFERENCE ARCHITECTURAL AND MEP DRAWINGS FOR SIZE AND LOCATION OF DECK PENETRATIONS.
2. REFERENCE S-201 AND S-302 FOR TYPICAL WOOD DETAILS.
3. REFERENCE S-301 FOR WOOD COLUMN SCHEDULE.

T.O. WALL ELEVATION=114'-10" A.F.F.

REFER TO ARCH. FOR ROOF SLOPE



2 ROOF FRAMING PLAN - 2 BED DUPLEX
1/8" = 1'-0"



1 CEILING FRAMING PLAN
1/8" = 1'-0"

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ANDREW M. ROHR 22258 OKLAHOMA 05/01/23

wallace design collective

OK C.A. 3146
EXP. 06/30/23

HACN BIRDTAIL ADDITION

16514 SOUTH 825 ROAD
TAHLEQUAH, OK 74464

S121.A
CEILING FRAMING PLAN / ROOF FRAMING PLAN - 2 BED DUPLEX

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SHEET NAME
CEILING FRAMING PLAN / ROOF FRAMING PLAN - 2 BED DUPLEX

SHEET NUMBER
S121.A

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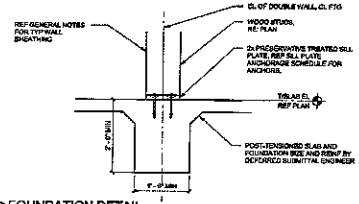
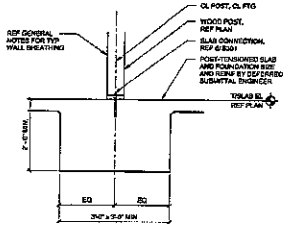
IF CONCRETE FOR FOOTINGS IS PLACED PRIOR TO THE POST-TENSIONED SLAB, PROVIDE MINIMUM OF #3x8"x8" DOWELS (24"x8" L SHS) AT 18" OC.

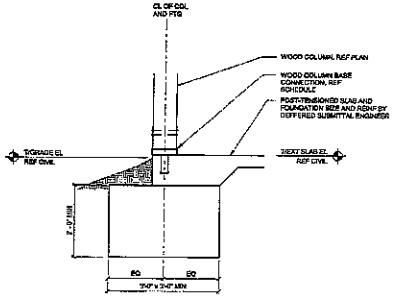


6 FOUNDATION DETAIL
3/4" = 1'-0"

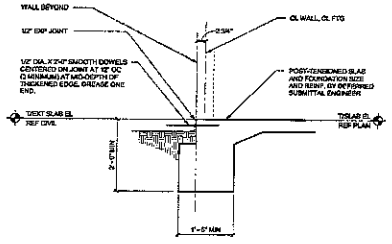
AT SIM, REFER TO PERMEYER DETAIL FOR ADDITIONAL INFORMATION OR CIVIL FOR SIDEWALK/PAVEMENT



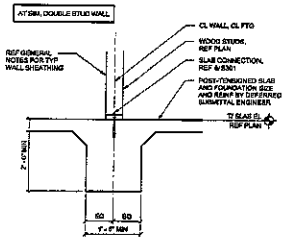
5 FOUNDATION DETAIL
3/4" = 1'-0"



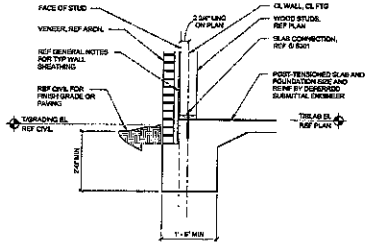
4 FOUNDATION DETAIL
3/4" = 1'-0"



3 FOUNDATION DETAIL
3/4" = 1'-0"



2 FOUNDATION DETAIL
3/4" = 1'-0"



1 FOUNDATION DETAIL
3/4" = 1'-0"

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MARSHALL KEHN 22259 OREGON
04/27/23

wallace design collective

CCB-C.A.-91460
EXP. 06/30/23

HACN BIRDTAIL ADDITION
16511 SOUTH 525 ROAD
THILEQUAH, OK 74464

S201
FOUNDATION DETAILS

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OTHER ISSUE DATES

NO.	DESCRIPTION	DATE

SHEET NAME
FOUNDATION DETAILS

SHEET NUMBER
S201

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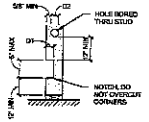
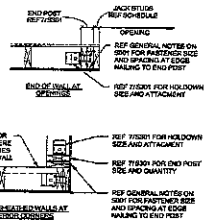
ALLOWABLE NOTCH OR BORING SIZE IN WOOD STUDS				
STUD SIZE	BEARING WALLS		NON-BEARING WALLS	
	MAX DEPTH NOTCH	MAX DIA HOLE DIA	MAX DEPTH NOTCH	MAX DIA HOLE DIA
2x4	7/8"	1 3/8"	1 5/8"	2"
2x6	1 3/8"	2 3/16"	2 3/16"	3 1/4"

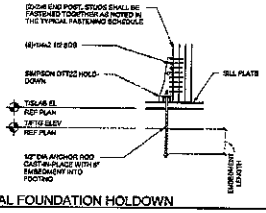


NOTES:
1. NOTCHING AT SHEAR WALL END POSTS IS NOT PERMITTED.
2. CUT DIMENSION SHALL NOT EXCEED VALUES SHOWN IN TABLE
   - EXCEPTION: 2" DIA PIPE THROUGH 2x4 AND 2x6 WALLS MAY HAVE NOTCH DIMENSION (D1) UP TO 2 1/2" WHERE SIMPSON HSS STUD SHOE IS INSTALLED PER MFG RECOMMENDATIONS.
3. NOTCHING OF STUD PERMITTED ONLY WITHIN END 1/4 OF LENGTH. DO NOT NOTCH STUDS WITHIN MIDDLE 1/2 OF LENGTH.
4. HOLE AND NOTCH SIZES FOR NON-BEARING WALLS MAY BE USED FOR BEARING WALLS AT DOUBLED STUDS, PROVIDED NOT MORE THAN 2 SUCCESSIVE STUDS ARE SO BORED OR NOTCHED.
5. BORING OR NOTCHING IN EXCESS OF THESE LIMITATIONS WILL REQUIRE THE REPLACEMENT OF THE DAMAGED FRAMING MEMBER.

9 HOLES AND NOTCHES IN WOOD STUDS
NTS

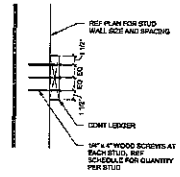


8 WALL INTERSECTION AT HOLD-DOWNS DETAILS
1" = 1'-0"



7 TYPICAL FOUNDATION HOLDOWN
1" = 1'-0"

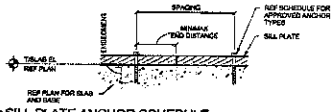
TYPICAL LEDGER ATTACHMENT		
LEDGER TO WOOD STUD		
LEDGER SIZE	NO. SCREWS TO EACH STUD	NOTES
2x8	2	
2x8	3	
2x10	4	
2x12	4	
2x14	4	



10 TYPICAL WOOD LEDGER DETAIL
1 1/2" = 1'-0"

SILL PLATE ANCHOR SCHEDULE					
ATTACHMENT ANCHOR TYPE	BASEMENT	LOCATION AND SPACING			MINIMAX END DISTANCE
		EXTERIOR WALLS	INTERIOR BEARING WALLS	INTERIOR NON LOAD BEARING WALLS	
5/8" DIA HEADED ANCHOR BOLTS	7"	48" OC	72" OC	N/A	2" MIN 12" MAX
0.177" DIA PAF	1 1/2"	N/A	24" OC STAGGERED	48" OC STAGGERED	2" MIN 6" MAX
0.0380" DIA PAF	7"	N/A	12" OC STAGGERED	12" OC STAGGERED	2" MIN 6" MAX

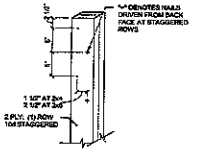
NOTES:
1. EACH SILL PLATE PIECE SHALL HAVE (2) ANCHORS MINIMUM
2. EXPANSION ANCHORS SHALL NOT BE ALLOWED WITHIN 6 INCHES OF SLAB EDGE.
3. ALL HARDWARE IN CONTACT WITH PRESERVATIVE TREATED FRAMING SHALL BE HOT-DIPPED ZINC-COATED GALVANIZED STEEL OR STAINLESS STEEL.
4. OVERSIZED WASHERS AT TOP OF SILL PLATE SHALL BE USED FOR ALL ANCHOR TYPES
5. REF PLAN AND 7/S301 FOR HOLD-DOWN INFORMATION



6 SILL PLATE ANCHOR SCHEDULE
1 1/2" = 1'-0"

WOOD COLUMN SCHEDULE				
MARK	SIZE	BASE CONNECTION	TOP CONNECTION	NOTES
WC1	(2)-2x6	SIMPSON ABU66Z	SIMPSON LCE4 EA SIDE OF COL	
WC2	(2)-2x4	SIMPSON ABU44Z	SIMPSON LCE4 EA SIDE OF COL	
WC3	6x6	SIMPSON ABU66Z	SIMPSON LCE4 EA SIDE OF COL	1

NOTES:
1. MEMBERS SHALL BE PRESERVATIVE TREATED AT EXTERIOR



4 BUILT-UP COLUMN SCHEDULE AND DETAIL
NTS

FRAMING HANGER SCHEDULE		
FRAMING MEMBER	TOP FLANGE HANGER	FACE MOUNT HANGER
2x6	JB26	LUS26
(2)-2x6	HUS210-2TF	LUS26-2
(3)-2x6	HUS210-3TF	LUS26-3
(2) 1 3/4"x11 7/8" LVL	HGLTV4	--
(3) 1 3/4"x11 7/8" LVL	HGLMV1J8	--

NOTES:
1. THE ABOVE ARE MINIMUM HANGER REQUIREMENTS. REFER TO DETAILS FOR FRAMING MEMBERS NOT SHOWN.
2. ALL JOIST HANGERS ARE SIMPSON STRONG-TIE PRODUCTS. ALTERNATE HANGERS MAY BE USED THAT MEET OR EXCEED THE LISTED SIMPSON CAPACITY. ALTERNATE CONNECTIONS SHALL BE APPROVED BY THE ENGINEER OF RECORD.
3. ONLY USE FACE MOUNTED HANGERS WHERE ALL FACE NAILING CAN BE INSTALLED PER THE MANUFACTURER'S REQUIREMENTS.
4. FILL ALL HOLES WITH FASTENERS PER MANUFACTURER'S REQUIREMENTS.
5. PROVIDE COMPLIANT FASTENERS AND FINISH FOR EXPOSED CONNECTORS TO COMPLY WITH ARCHITECT'S OR OWNER'S REQUIREMENTS.

3 FRAMING HANGER SCHEDULE
NTS

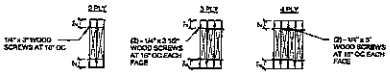
TYPICAL NAILING SCHEDULE	
CONNECTION	NAILING
ROOF RAFTER/CEILING JOIST/RAFTER TO TOP PLATE OR GIRDER	(3)-8d TOENAIL
BRIDGING OR BLOCKING TO JOIST	(2)-8d TOENAIL EACH END
BRIDGING OR BLOCKING BETWEEN JOIST TO TOP PLATE	(3)-8d TOENAIL EACH END
STUD TO TOP PLATE	(2)-16d END NAIL
STUD TO BOTTOM PLATE	(4)-8d TOENAIL
STUD TO STUD AND BUILT-UP CORNER STUDS	10d AT 16" OC FACE NAIL OR 16d AT 24" OC FACE NAIL
DOUBLE TOP PLATES, MIN. 24" OFFSET OF END JOINTS	10d AT 12" OC FACE NAIL OR 16d AT 16" OC FACE NAIL
DOUBLE TOP PLATES AT END JOINTS, MIN. 24" OFFSET	(8)-16d EACH SIDE OF JOINT FACE NAIL
TOP PLATES LAPS AND INTERSECTIONS	(2)-16d FACE NAIL
BUILT-UP HEADER (2x TO 2x WITH 1/2" MAX SPACER)	16d AT 12" OC FACE NAIL EACH EDGE
BUILT-UP BEAM	16d AT 16" OC FACE NAIL EACH
CONTINUOUS HEADER TO STUD	(4)-8d TOENAIL
CEILING JOIST TO TOP PLATE	(3)-8d TOENAIL
CEILING JOIST LAP OVER SUPPORT	(4)-16d FACE NAIL
CEILING JOIST TO PARALLEL RAFTERS	(1)-16d
COLLAR TIE TO PARALLEL RAFTERS	(3)-10d FACE NAIL
RAFTER TO 2x RIDGE BEAM	(3)-16d END NAIL / (5) 10d TOENAIL
RAFTER TO VALLEY OR HIP RAFTER	(3)-16d END NAIL / (5) 10d TOENAIL

NOTES:
1. THE ABOVE ARE MINIMUM NAILING REQUIREMENTS. REFER TO GENERAL NOTES, DETAILS, AND SCHEDULES FOR MORE STRINGENT REQUIREMENTS.
2. PROVIDE COMMON WIRE NAILS FROM U.S.A. OR CANADIAN MFR. REFER TO NAIL SIZE SCHEDULE FOR NAIL SIZE.
3. REFER TO "FASTENER SCHEDULE" IN CHAPTER 23 OF THE IBC FOR MINIMUM WOOD FASTENING REQUIREMENTS NOT SHOWN.
4. PROVIDE HOT-DIPPED ZINC-COATED GALVANIZED NAILS AT EXTERIOR FACE OF WALLS.
5. REFER TO GENERAL NOTES AND SHEAR WALL SCHEDULE FOR SHEATHING ATTACHMENT.

2 TYPICAL FASTENING SCHEDULE
NTS

NAIL SIZE SCHEDULE	
6d COMMON	0.113" DIA. x 2"
8d COMMON	0.131" DIA. x 2 1/2"
10d COMMON	0.148" DIA. x 3"
12d COMMON	0.148" DIA. x 3 1/4"
16d COMMON	0.162" DIA. x 3 1/2"
20d COMMON	0.162" DIA. x 4"
30d COMMON	0.207" DIA. x 4 1/2"

1 NAIL SIZE SCHEDULE
NTS



5 BUILT-UP BEAM SCHEDULE AND DETAIL
NTS

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A Native American Owned Firm

ANDREW M. KEHR 22259 04/27/23

wallace design collective
OK CoA: 01456
EXP. 06/30/23

HAGN BIRDTAIL ADDITION
15641 SOUTH 825 ROAD
TAHLEQUAH, OK 74464

S301
TYPICAL WOOD DETAILS

blue river ARCHITECTS
A Native American Owned Firm

BLUE RIVER PROJECT NUMBER
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SHEET NAME
TYPICAL WOOD DETAILS

SHEET NUMBER
S301

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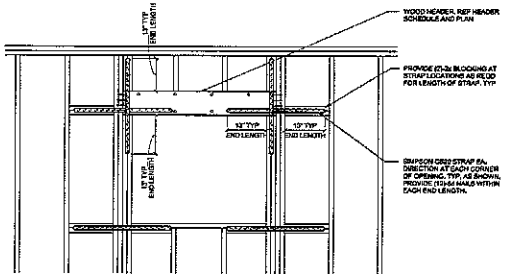
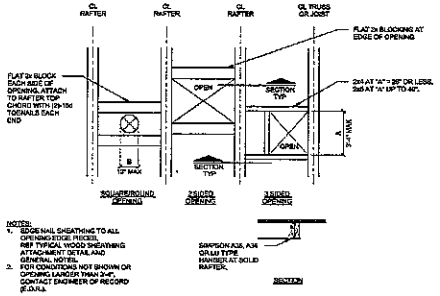
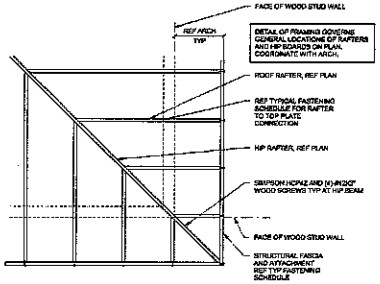


10 FORCE TRANSFER AROUND OPENINGS
3/4" = 1'-0"

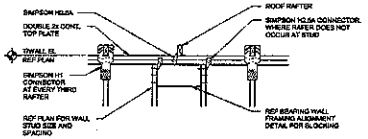
9 TYPICAL BEAM TO STUD WALL CONNECTIONS
3/4" = 1'-0"



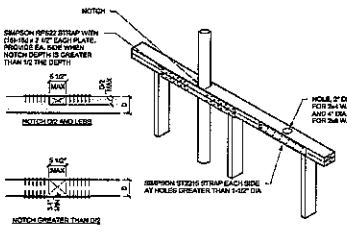
8 SMALL OPENING IN WOOD SHEATHING
3/4" = 1'-0"



7 HIP FRAMING DETAIL
1/2" = 1'-0"

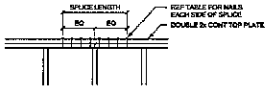


6 TYPICAL ROOF RAFTER TIE DOWN DETAIL
3/4" = 1'-0"



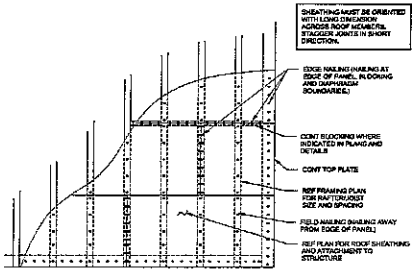
5 HOLES AND NOTCHES IN TOP PLATE
NTS

LOCATION	SPLICE LENGTH	NAILS EA. SIDE OF SPLICE
TYPICAL	4'-0"	(8)-16d

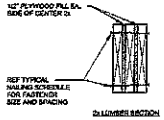


NOTES:
1. END JOINTS IN DOUBLE TOP PLATES SHALL OFFSET A MINIMUM OF 48".
2. INSTALL DOUBLE TOP PLATE SPLICE AT EXTERIOR WALLS AND BEARING WALLS.
3. SPECIFIC SPLICE REQUIREMENTS DO NOT APPLY TO INTERIOR WALLS UNLESS NOTED OTHERWISE

4 TYPICAL TOP PLATE SPLICE
NTS



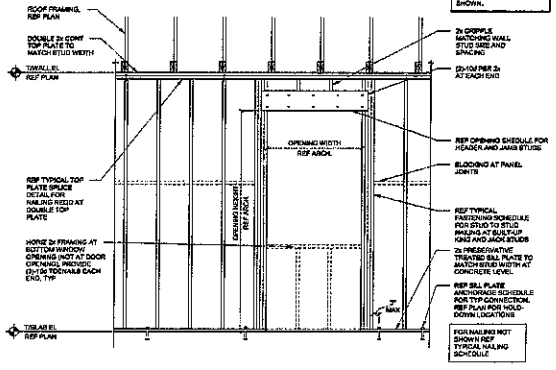
3 TYPICAL WOOD SHEATHING ATTACHMENT DIAGRAM
3/4" = 1'-0"



OPENING SCHEDULE					
MARK	HEADER	JACK STUDS	KING STUDS	SILL STUDS	MAX. OPENING WIDTH
H1	(2)-2x6	(1)-2x6	(1)-2x6	(1)-2x6	4'-0"
H2	(3)-2x8	(1)-2x6	(1)-2x6	(1)-2x6	6'-4"
H3	(3)-2x10	(1)-2x4	(1)-2x4	—	6'-4"

NOTE
1. HEADER MEMBERS SHALL BE CONTINUOUS. SPLICES ARE NOT PERMITTED IN HEADER FRAMING MEMBERS.
2. JACK AND KING STUDS SHALL BE FASTENED TOGETHER PER TN ' TYPICAL BUILT-UP COLUMN DETAIL.

2 OPENING SCHEDULE
NTS



1 TYPICAL WALL OPENING DETAIL
NTS

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ANDREW M. SCHIN 22259 OKLAHOMA 04/27/23

WORKOS design collective

OK C.A. 7180 EXP. 06/30/23

HACN BIRDTAIL ADDITION

18511 SOUTH 325 ROAD
TAHLEQUAH, OK 74464

S302
TYPICAL WOOD DETAILS

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A Native American Owned Firm

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20210212.19

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TYPICAL WOOD DETAILS

SHEET NUMBER
S302

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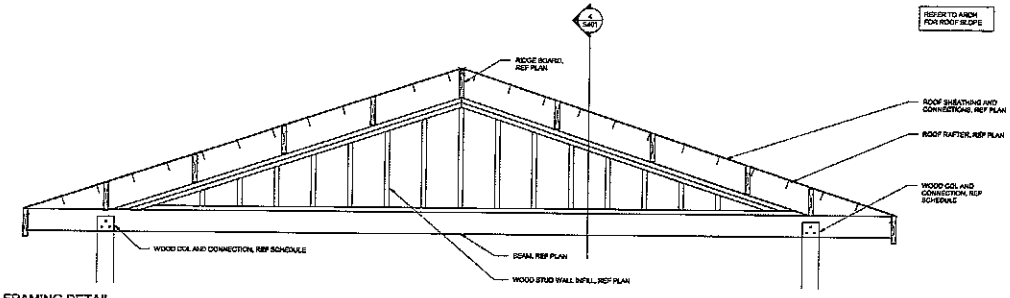
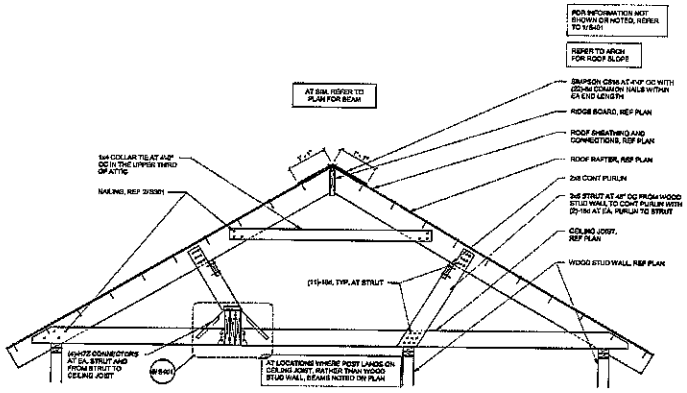
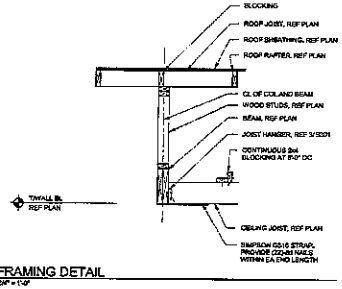


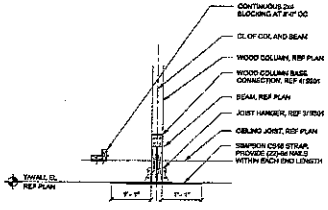
8 FRAMING DETAIL
3/4" = 1'-0"



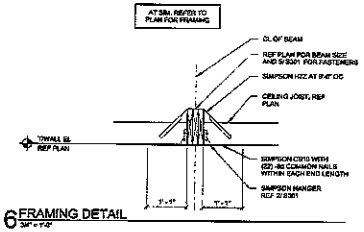
7 FRAMING DETAIL
3/4" = 1'-0"



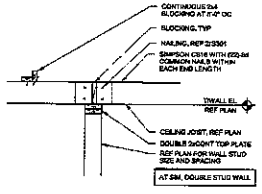
4 FRAMING DETAIL
3/4" = 1'-0"



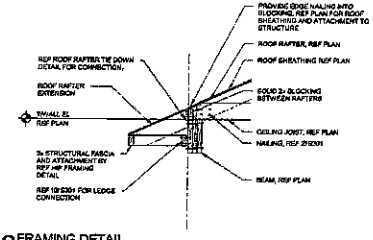
3 FRAMING DETAIL
3/4" = 1'-0"



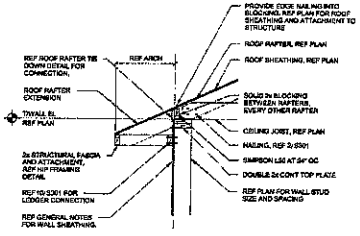
6 FRAMING DETAIL
3/4" = 1'-0"



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



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



1 FRAMING DETAIL
3/4" = 1'-0"

blue & river ARCHITECTS
A Native American Owned Firm

MICHAEL S. KEAR
22259
OKLAHOMA
04/27/23

WORKSHOP DESIGN CONSULTING
OK C.A. #1440
EXP. 06/30/23

HACN BIRDTAIL ADDITION

18511 SOUTH 525 ROAD
TAHLEQUAH, OK 74464

S401
FRAMING DETAILS

blueriver ARCHITECTS
A Native American Owned Firm

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SHEET NAME
FRAMING DETAILS

SHEET NUMBER
S401

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MECHANICAL

- SUPPLY AIR DUCT, SECTION
- RETURN AIR DUCT, SECTION
- EXHAUST AIR DUCT, SECTION
- OUTDOOR AIR INTAKE, SECTION
- DUCT, WIDTH X DEPTH, PLAN
- INCLINE DUCT RISE
- INCLINE DUCT DROP
- FLEXIBLE CONNECTION
- LONG RADIUS ELBOW
- VOLUME DAMPER
- SQUARE ELBOW W/ TURNING VANES
- BRANCH TAKEOFF WITH ADJUSTABLE EXTRACTOR
- SPLITTER DAMPER
- THERMOSTAT
- SPACE TEMPERATURE SENSOR
- EXHAUST AIR INLET
- CEILING RETURN INLET
- CEILING SUPPLY DIFFUSER
- DUCT WITH INTERNAL LINING
- ELECTRIC DUCT HEATER
- SQUARE OR RECTANGULAR BRANCH TAKEOFF WITH MANUAL BALANCING DAMPER
- ROUND BRANCH TAKEOFF WITH SCOOP EXTRACTOR AND MANUAL BALANCING DAMPER
- CONICAL TEE WITH ROUND DUCTWORK
- STATIC PRESSURE SENSOR
- UNIT HEATER
- SMOKE DETECTOR
- SUPPLY AIR FLOW
- RETURN AIR OR EXHAUST AIR FLOW
- DOOR UNDER CUT
- FIXED LOUVER W/BIRD SCREEN
- OPPOSED BLADE DAMPER
- PARALLEL BLADE DAMPER
- BACKDRAFT DAMPER
- FIRE DAMPER
- MOTORIZED DAMPER
- POINT OF CONNECTION
- PRESSURE TRANSMITTER
- AIR OUTLET
- CO2 CARBON DIOXIDE SENSOR
- CO CARBON MONOXIDE SENSOR
- NOX NITROGEN OXIDE SENSOR

PIPE AND FITTINGS

- GATE VALVE
- GLOBE VALVE
- ANGLE GATE VALVE
- SOLENOID VALVE
- NON SLAM CHECK VALVE
- BUTTERFLY VALVE
- PLUG VALVE
- BALL VALVE
- TWO WAY CONTROL VALVE
- PRESSURE REGULATOR
- THREE WAY CONTROL VALVE
- PRESSURE REDUCING VALVE
- BUTTERFLY VALVE
- AUTOMATIC AIR VENT
- STRAINER, Y TYPE W/GATE VALVE OR HOSE BIBB
- FLEXIBLE CONNECTION
- JOINT
- EXPANSION JOINT
- FLOW METER
- FLOW DIRECTION
- ELBOW BASE
- ELBOW REDUCING
- UNION
- PRESSURE GAUGE WITH TRI-COCK
- PRESSURE INDICATOR
- TEST PLUG
- TEMPERATURE INDICATOR
- FLOW SWITCH
- METERED BALANCING VALVE WITH PRESSURE TAP
- PRESSURE/TEMPERATURE TEST PLUG
- THERMOMETER
- THERMOMETER, DIAL
- THERMOWELL
- AUTO FLOW BALANCING VALVE
- FLOOR DRAIN W/P-TRAP
- FLOOR CLEANOUT
- WALL CLEANOUT
- BACKFLOW PREVENTER
- LUBRICATED PLUG COCK
- HOSE BIBB W/VACUUM BREAKER
- CAPPED END
- DELUGE VALVE
- PIPE SWAY BRACING
- PIPE ANCHOR SUPPORT
- BALANCING VALVE

ABBREVIATIONS

A		K	KW
A	AIR		KILOWATT
ABV	ABOVE	L	LAB
ACCU	AIR COOLED CONDENSING UNIT		LABORATORY
ACL	ACOUSTICAL SEAL	LAV	LAVATORY
ACU	AIR CONDITIONING UNIT	LT	LIGHT
AD	ACCESS DOOR	LD	LOAD
AF	AIR FILTER	LDB	LINEAR DIFFUSER
AFF	ABOVE FINISHED FLOOR	LDS	LEAVING DRY BULB
AFH	AIR FILTER, HIGH EFFICIENCY	LF	LINEAR FEET
AFU	AIR HANDLING UNIT	LPD	LINEAR PLOW DIFFUSER
APD	AIR PRESSURE DROP	LP	LIQUID PROPANE
AR	ACID RESISTANT	LS	LITER PER SECOND
ASSY	ASSEMBLY	LWB	LEAVING WET BULB
AUX	AUXILIARY	LWT	LEAVING WATER TEMPERATURE
AV	AUTOMATIC AIR VENT		
B		M	
BSD	BACKDRAFT DAMPER	MAU	MAKEUP AIR UNIT
BHP	BRAKE HORSE POWER	MAX	MAXIMUM
BF	BACKFLOW PREVENTER	MB	MIXING BOX/MIXING BASIN
BS	BIRD SCREEN	MBH	THOUSAND BTU/HR
		MD	MOTORIZED DAMPER
C		MECH	MECHANICAL
C	CONDENSATE	MGN	MAGNESIUM
CL	CENTER LINE	MH	MILLIHENRY
CD	CEILING DIFFUSER	MS	MOTOR STARTER
CFM	CUBIC FEET PER MINUTE		
CH	CHILLER	N	
CHEM	CHEMICAL DRAIN	N	NITROGEN
CHP	CHILLED WATER PUMP	NC	NORMALLY CLOSED
CLG	CEILING	NIC	NOT IN CONTRACT
CO	CLEANOUT	NO	NUMBER
CONC	CONCRETE	NOX	NITROGEN OXIDE
CONN	CONNECTION	NTS	NOT TO SCALE
CONT	CONTINUOUS/CONTINUOUS		
COTG	CLEAN OUT TO GRADE	O	
CU	CONDENSING UNIT/COPPER	O	OXYGEN
CV	CONSTANT VOLUME	OA	OUTSIDE AIR
CW	COLD WATER	OAL	OUTSIDE AIR LOUVER
		OBD	OPPOSED BLADE DAMPER
D		OC	ON CENTER
DDC	DIRECT DIGITAL CONTROL	OD	OVERFLOW DRAIN
DG	DOOR GRILLE	OSHY	OUTSIDE SCREW & YOKE
DIA	DIAMETER		
DIM	DIMENSION	P	
DMPR	DAMPER	PD	PRESSURE DROP
DN	DOWN	PDCO	POINT OF CONNECTION
DPS	DIFFERENTIAL PRESSURE SWITCH	PRESS	PRESSURE
DR	DRAIN	PRV	PRESSURE REDUCING VALVE
DSD	DUCT SMOKE DETECTOR	PSIG	POUNDS PER SQUARE INCH
DSW	DISTILLED WATER	PVC	POLYVINYL CHLORIDE
DW	DISHWASHER		
		R	
E		RA	RETURN AIR
EAT	ENTERING AIR TEMPERATURE	RAG	RETURN AIR GRILLE
ED	EQUIPMENT DRAIN	RAR	RETURN AIR REGISTER
EDB	ENTERING DRY BULB	RD	RAIN DRAIN/DRAIN
EER	ENERGY EFFICIENCY RATIO	REF	REFRIGERANT
EF	EXHAUST FAN	RF	RETURN FAN
EFF	EFFICIENCY	RL	RAIN LEADER
EG	EXHAUST GRILLE	RM	ROOM
EL	ELEVATION	RTN	RETURN
ELEC	ELECTRICAL		
ENT	ENTRANCE	S	
ER	EXHAUST REGISTER	SA	SUPPLY AIR
EWB	ENTERING WET BULB	SAG	SUPPLY AIR GRILLE
EWC	ELECTRIC WATER COOLER	SAN	SANITARY
EWT	ENTERING WATER TEMPERATURE	SAR	SUPPLY AIR REGISTER
EXH	EXHAUST	SD	SMOKE DAMPER
EWS	EYE WASH/SHOWER STATION	SDFD	COMB. SMOKE DAMPER/FIRE DAMP.
		SF	SUPPLY FAN
F		SH	SHEET
FCO	FLOOR CLEANOUT	SP	STATIC PRESSURE
FD	FIRE DAMPER/FLOOR DRAIN	SQ FT	SQUARE FEET
FH	FUME HOOD	SST	STAINLESS STEEL
FL	FLOOR		
FLEX	FLEXIBLE	T	
FOR	FUEL OIL RETURN	TCU	TERMINAL CONTROL UNIT
FOS	FUEL OIL SUPPLY	TEMP	TEMPERATURE
FP	FIRE PUMP	TG	TRANSFER GRILLE
FPI	FINS PER INCH	TP	TRAP PRIMER
FPM	FEET PER MINUTE	TYP	TYPICAL
FT	FEET		
FV	FACE VELOCITY	U	
		UC	UNDERCUT
G		V	
GA	GAUGE	V	VENT
GIV	GRAVITY INTAKE VENTILATOR	VAV	VARIABLE AIR VOLUME
GND	GROUND	VD	VOLUME DAMPER
GPM	GALLONS PER MINUTE	VEL	VELOCITY
GV	GRAVITY EXHAUST VENTILATOR	VERT	VERTICAL
		VFD	VARIABLE FREQUENCY DRIVE
H		VSD	VARIABLE SPEED DRIVE
HB	HOSE BIBB	VTR	VENT THRU ROOF
HDPE	HIGH DENSITY PE		
HP	HORSE POWER/HEAT PUMP	W	
HTG	HEATING	W	WITH
HUMID	HUMIDISTAT	WO	WITHOUT
HWS	HOT WATER SUPPLY	WCO	WALL CLEANOUT
HWB	HOT WATER BOILER	WG	WATER GAUGE
HWP	HOT WATER PUMP	WR	WALL REGRIND
HWR	HOT WATER RETURN	WRA	WATER HAMMER ARRESTORS
		WR	WATER RISER
I		WTR	WATER
ID	INSIDE DIAMETER		
IN	INCHES		
INV EL	INVERT ELEVATION		

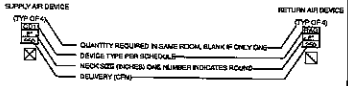
NOTE:
THIS IS A STANDARD SYMBOLS & ABBREVIATIONS SHEET, THEREFORE, SOME SYMBOLS & ABBREVIATIONS MAY APPEAR ON THIS SHEET AND NOT ON THE PLANS.

PIPE LINES

- POTABLE COLD WATER
- POTABLE HOT WATER
- POTABLE HOT WATER RETURN
- VENT

DUCT TYPE

XX" SA	SUPPLY AIR
XX" RA	RETURN AIR
XX" EXH.	EXHAUST AIR
XX" OA	OUTSIDE AIR
XX" TA	TRANSFER AIR



GENERAL NOTES

1. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY FOR THE INSTALLATION OF A COMPLETE AND OPERABLE SYSTEM IN ACCORDANCE WITH THESE DOCUMENTS. THIS APPLICABLE BUILDING CODES AND ALL OTHER APPLICABLE STATE, COUNTY AND LOCAL ORDINANCES AND THE LATEST EDITION OF THE FOLLOWING PUBLICATIONS: INTERNATIONAL BUILDING CODE- MECHANICAL, SMACNA, ASHRAE, NFPA 90A, 90B, 91 & ANSI B-9.1 MECHANICAL REFRIGERATION.

2. THE TERM "PROVIDE" USED IN THE PROJECT SPECIFICATIONS AND DRAWINGS SHALL MEAN TO FURNISH, INSTALL, CONNECT, AND PLACE IN SERVICE COMPLETELY IN THE SPECIFIED OR APPROVED MANNER THE ITEM AND/OR MATERIAL DESCRIBED.

3. THE MECHANICAL PLANS IN GENERAL ARE DIAGRAMMATIC IN NATURE, AND ARE TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, PLUMBING, ELECTRICAL & STRUCTURAL PLANS AND SHALL BE CONSIDERED AS ONE SET OF DOCUMENTS. ALL EQUIPMENT SHALL BE INSTALLED AS PER MANUFACTURER'S SPECIFIED GUIDELINES. DUCT AND PIPING OFFSETS, BENDS AND TRANSITIONS WILL BE REQUIRED TO PROVIDE AND INSTALL A COMPLETE FUNCTIONAL SYSTEM AND SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. CHANGES IN DUCTWORK SIZE AND ROUTE WILL BE REQUIRED TO AVOID STRUCTURAL, PLUMBING, FIRE SPRINKLER AND ARCHITECTURAL BUILDING FEATURES. DUCTWORK CHANGES MAY BE MADE BY CONTRACTOR USING EQUIVALENT SIZED DUCT. CONTACT ENGINEER IN WRITING IF MECHANICAL SYSTEMS WILL NOT FIT IN AREA ALLOTTED.

4. SYMBOLS IN THE LEGEND ARE APPLICABLE GENERALLY, FOR EXACT DESIGN REQUIREMENTS SEE THE APPLICABLE SCHEDULES, LAYOUTS, DETAILS, AND THE SPECIFICATIONS, UNLESS OTHERWISE NOTED. ALL DUCTS, EQUIPMENT, PIPE SIZES AND DIMENSIONS ARE IN ENGLISH UNITS.

5. THE CONTRACTOR SHALL PAY ALL COSTS OF PERMITS, INSPECTIONS AND ALL OTHER COSTS INCIDENTAL TO THE COMPLETION AND TESTING OF THIS WORK.

6. OWNER'S OF RECORD RECOGNIZES THE GENERAL CONTRACTOR AND ALL OTHER CONTRACTORS TO BE LICENSE PROFESSIONALS IN THIS STATE IN WHICH WORK IS TO BE PERFORMED. GENERAL CONTRACTOR SHALL COORDINATE THE PROJECT AS ONE SET OF DOCUMENTS. GENERAL CONTRACTOR SHALL PROVIDE AN ENTIRE SET OF DOCUMENTS SHOWING ALL TRADES TO EACH SUBCONTRACTOR PRIOR TO BIDDING AND CONSTRUCTION. GENERAL CONTRACTOR SHALL COORDINATE WITH ALL OTHER CONTRACTORS TO INFORM ARCHITECT/ENGINEER OF ANY DISCREPANCIES OR POSSIBLE CONFLICTS ON THE DOCUMENTS PRIOR TO SUBMITTING FINAL BID AND COMMENCING ANY WORK. CONTRACTOR SHALL MAKE HIMSELF AVAILABLE FOR REVIEWING DOCUMENTS WITH ARCHITECT/ENGINEER/OWNER UPON REQUEST.

7. THE CONTRACTOR SHALL VISIT THE SITE AND COORDINATE WORK WITH OTHER TRADES.

8. THE CONTRACTOR SHALL SUPPLY THE ENGINEER WITH "AS-BUILT" REDLINE DRAWINGS, UPON COMPLETION OF THE PROJECT AND ANY/CHG SHOP DRAWING FILES (IF APPLICABLE).

9. THE GENERAL CONTRACTOR SHALL PROVIDE IN WRITING AND ON COMPANY LETTER HEAD, ALL ITEMS VALUE ENGINEERED OR OMITTED FROM PROJECT BIDS. THIS DOCUMENT SHALL HAVE DETAILED DESCRIPTION AND TRANSPARENCY OF ALL ITEMS IN EACH DISCIPLINE AND FOR EACH TRADE. INFORMATION SHALL BE PROVIDED TO ARCHITECT AND ENGINEER FOR REVIEW PRIOR TO SUBMITTING FINAL BID. CONTRACTOR SHALL MAKE HIMSELF AVAILABLE FOR REVIEWING DOCUMENTS WITH ARCHITECT/ENGINEER/OWNER UPON REQUEST.

DUCTWORK:

10. INTERMEDIATE DUCT SHALL BE CONSTRUCTED OF GALVANIZED SHEET STEEL(LOCK FORMING QUALITY) ASTM A653/A 653M, COATING DESIGNATION G90 PREPAINTED FINISH FOR SURFACES OF DUCT EXPOSED TO VIEW. FABRICATE DUCTS, ELBOWS, TRANSITIONS, OFFSETS, BRANCH CONNECTIONS AND OTHER CONSTRUCTIONS ACCORDING TO SMACNA "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE". COMPLY WITH REQUIREMENTS FOR METAL THICKNESS, REINFORCING TYPES AND INTERVALS, SEE RCD APPLICATIONS, AND JOINT TYPES AND INTERVALS FOR SEALING OF METAL DUCTS AND AIR TIGHTNESS. SEE SMACNA 2"w.g. CLASSIFICATION, SEAL CLASS B. ALL OUTSIDE AIR DUCTWORK SHALL BE LOW PRESSURE CONSTRUCTION (SMACNA 2"w.g. CLASSIFICATION). ALL RETURN AIR AND EXHAUST AIR DUCTWORK SHALL BE LOW PRESSURE CONSTRUCTION (SMACNA 2"w.g. CLASSIFICATION).

11. FLEXIBLE DUCT SHALL COMPLY UL 181 CLASS 1, FACTORY FABRICATED, INSULATED, ROUND DUCT, WITH A POLYETHYLENE FILM OUTER JACKET ENCLOSING GLASS FIBER INSULATION (R-4) AROUND A CONTINUOUS POLYETHYLENE INNER LINER. THE INSULATION SHALL HAVE AN ENCAPSULATED STEEL WIRE HELIX. FLEXIBLE DUCT SHALL BE INSTALLED IN ACCORDANCE WITH NAIMA'S FIBROUS GLASS DUCT CONSTRUCTION STANDARDS". INSULATION SHALL BE 1" (R-4) FOR USE IN CONDITIONED SPACE AND 1 1/2" (R-6) FOR USE IN UNCONDITIONED SPACE.

12. EXTERIOR RECTANGULAR METAL DUCT AND FITTINGS SHALL BE DOUBLE WALL CONSTRUCTION. THE OUTER SHELL SHALL BE FABRICATED WITH GALVANIZED SHEET STEEL, LOCKFORMING QUALITY, ASTM A653/A653M, WITH ASTM G-90 GALVANIZE COATING THE INNER SHELL, ALL JOINT CONNECTORS SHALL BE NAIMA AHU 2 INCH APPROVED SIDEBELTS, METAL GAUGES SHALL CONFORM SMACNA AP PROVED EXTENSION JOINT SEALANT. ALL 90 DEGREE ELBOWS SHALL HAVE DOUBLE TURNING VANES. APPROVED MANUFACTURERS: AIRCOR/DESIGNCO

13. TERMINAL DUCT INSULATION SHALL BE MINERAL FIBER BLANKET WITH GLASS FIBERS BONDED WITH THERMO SETTING RESIN. THE DUCT WRAP SHALL COMPLY WITH ASTM C553, TYPE II WITHOUT FACING AND WITH ALL SERVICE JACKET MANUFACTURED FROM KRAFT PAPER, REINFORCED SCRIM, ALUMINUM FOIL AND VAPOR BARRIER. APPLY INSULATION MATERIALS, ACCESSORIES AND FINISHES ACCORDING TO THE MANUFACTURER'S WRITTEN INSTRUCTIONS. WITH SMOOTH, STRAIGHT AND EVEN SURFACES AND FREE OF VOIDS THROUGHOUT THE LENGTH OF DUCTS AND FITTINGS. INSULATION SHALL BE 1" (R-4) FOR USE IN CONDITIONED SPACE AND 1-1/2" (R-6) FOR USE UNCONDITIONED SPACE.

14. ALL INSULATION WILL HAVE FIRE/SMOKE RATING LESS THAN 25/50.

15. LAVATORY EXHAUST DUCTS SHALL BE GALVANIZED SHEET METAL OR CORRUGATED ALUMINUM FLEX DUCT WITH SEALED SEAMS AND JOINTS. ALL EXHAUST AIR DUCTS LOCATED IN AREAS WHERE DEWPOINT CONDITIONS COULD OCCUR SHALL BE INSULATED WITH EXTERNAL BLANKET INSULATIONS WITH A VAPORLESS OF R4.

16. ALL EXHAUST AIR FANS AND VENTS SHALL BE LOCATED BEYOND 10'-0" OF ANY OUTSIDE AIR INTAKE OR FAN. ALL EXHAUST AIR FANS SHALL BE MARKED WITH A PERMANENT PLATE TITLED "EXHAUST FAN FOR UNIT NUMBER(#) OR AREA". (E.G. "EF-1 FOR LOCKER ROOM", "EF-2 FOR GYM, FL TOILETS, ETC.)

17. ALL DUCT DIMENSIONS SHOWN ARE CLEAR INSIDE DIMENSIONS.

18. ALL BRANCH TAKE-OFFS TO BE PROVIDED W/ MANUAL VOLUME DAMPERS. ALL ELBOWS AND TEES MUST BE FURNISHED W/TURNING VANES. PROVIDE MANUAL VOLUME DAMPERS WITH EXTRACTOR AT ALL TAKE-OFFS.

THERMOSTATS/CONTROLS:

19. LOCATION OF THERMOSTATS SHALL BE ON INTERIOR WALLS APPROXIMATELY 48" AFF AND SHALL BE COORDINATED WITH SWITCHES, ETC. AT LOCATION SHOWN ON DRAWINGS.

20. VALVES SERVING DOMESTIC WATER SYSTEMS SHALL BE BALL VALVES OR APPROVED EQUAL. ALL VALVES SHALL BE LOCATED SO AS TO BE ACCESSIBLE BY MAINTENANCE PERSONNEL. VALVES LOCATED ABOVE ACCESSIBLE CEILINGS SHALL BE LOCATED WITHIN 12"OF THE CEILING. VALVES LOCATED IN SPACES WITHOUT CEILINGS SHALL BE ACCESSIBLE FROM THE FLOOR OR WITH A BOX ON EIGHT FOOT LADDER.

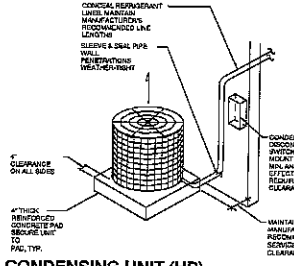
21. CONTRACTOR SHALL PROVIDE OWNER/BUILDING MANAGER/BUILDING ENGINEER WITH 40 HOURS OF ONSITE AND/OR OFF SITE TRAINING IN THE CONTROL AND OPERATION OF THE HVAC SYSTEM. TIME AND LOCATION TO BE DETERMINED BY CLIENT.

22. PROVIDE TYPE "B" DYNAMIC FIRE DAMPERS IN ALL DUCTS OR OPENINGS PENETRATING FIRE RATED ASSEMBLIES. PROVIDE SMOKE DAMPERS IN ALL DUCTS OR OPENINGS PENETRATING SMOKE RATED ASSEMBLIES. PROVIDE RADIATION DAMPERS IN DIFFUSERS OF RATED CEILINGS. REFER TO ARCHITECTURAL LIFE SAFETY DRAWINGS FOR RATED ASSEMBLIES.

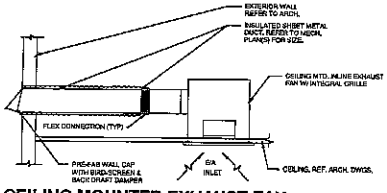
23. FOR ELECTRICAL OR CONTROL PANELS PROVIDE CLEARANCE PER NEC ARTICLE 110. DUCTS, PIPES AND OTHER EQUIPMENT ARE NOT ALLOWED TO RUN OVER PANELS PER NEC.

24. THE GENERAL CONTRACTOR SHALL TEST AND BALANCE THE AIR SIDE SYSTEM UPON COMPLETION. THE FINAL TEST AND BALANCE MUST BE PERFORMED BY AN INDEPENDENT FIRM CONTRACTED BY THE GENERAL CONTRACTOR AND NOT THE MECHANICAL CONTRACTOR. THE TEST AND BALANCE FIRM SHALL HOLD A CURRENT CERTIFICATION FROM A RECOGNIZED TEST AND BALANCE ORGANIZATION. THE TEST AND BALANCE OPERATION SHALL INCLUDE ALL AIR SIDE SYSTEMS REGARDLESS OF SIZE OF EQUIPMENT AND A TEST TO CONFIRM BUILDING IS NEUTRAL OR POSITIVELY PRESSURIZED. THE T & B FIRM SHALL PROVIDE A WRITTEN REPORT TO THE ARCHITECT AND THE ENGINEER UPON COMPLETION.

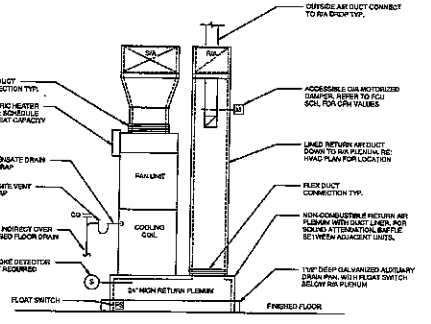
25. ALL OPERATIONS / MAINTENANCE MANUALS FOR EQUIPMENT SPECIFIED SHALL BE PROVIDED TO OWNER UPON COMPLETION OF PROJECT.



3 CONDENSING UNIT (HP)
NTS



2 CEILING MOUNTED EXHAUST FAN
NTS



1 FAN/COIL UNIT WITH ELECTRIC HEAT
NTS

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A Native American Owned Firm

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M001
HVAC NOTES

MPW
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HVAC NOTES

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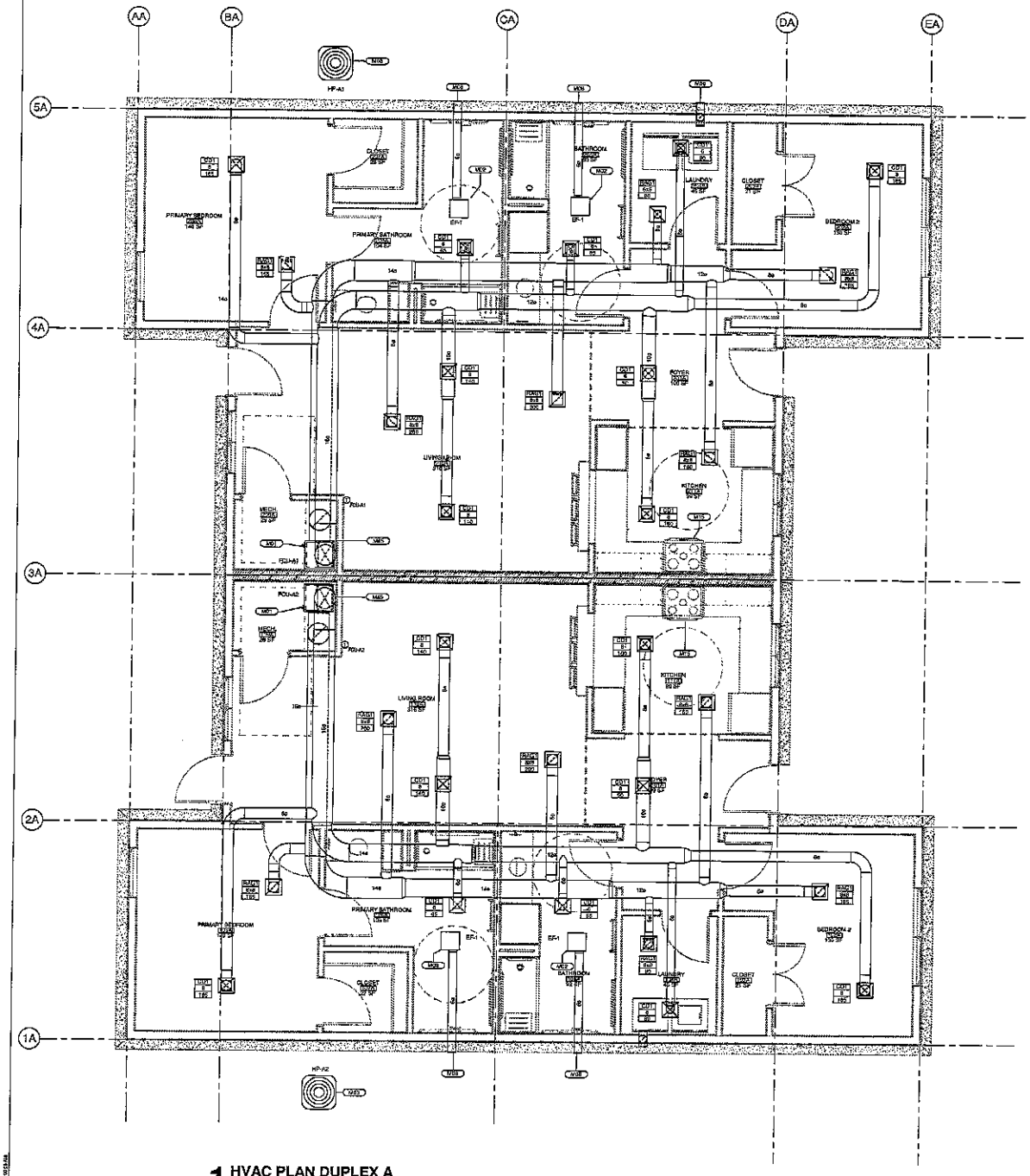

1 HVAC PLAN DUPLEX A

3/8" = 1'-0"

FAN/COIL & CONDENSING UNIT SCHEDULE

MARK	AREA SERVED	MFRS DAIKIN MODEL NO.	SIA CFM	NOM. TONS	RATED COOLING CAP	SSEER	ELEC HEAT KW MODEL #	MARC HEAT KW	VOLTS/PH	MCA	MOCP	REMARKS
FCU-A1	DUPLEX 1A	DX6DP7CD014A*	1050	3	34.4	15.2	HKSC10XC	10 KW +5.0 MCA 50 MOCP SKCV	208/1PH	6.5	15	ALL
HP-A1		DX6SEA0618A*							208/1PH	18.6	30	
FCU-A2	DUPLEX 2A	DV3DP7CD014A*	1050	3	34.4	16.2	HKSC10XC	10 KW +5.0 MCA 50 MOCP SKCV	208/1PH	6.5	15	ALL
HP-A2		DX6SEA0618A*							208/1PH	18.6	30	

GENERAL NOTES:
1. ACCEPTABLE ALTERNATE MANUFACTURERS: LENNOX, TRANE, AND YORK. PRE-BID PRE-APPROVAL IS REQUIRED, CONTRACTOR SHALL MAKE ALL NECESSARY DESIGN MODIFICATIONS FOR ALTERNATE PRODUCTS.
2. DE-RATE OUTDOOR UNITS BASED ON ENTERING AMBIENT AIR 105°AMB WITH 80°F db/67°F wb ENTERING AIR.
3. FURNACE UNITS SHALL INCLUDE ELECTRIC HEAT KIT.
4. CONTRACTOR SHALL PROVIDE A COMPLETE FUNCTIONING SYSTEM.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR UNIT MODIFICATIONS TO PROVIDE THE CONFIGURATION SHOWN ON DRAWINGS.
6. INSTALLING CONTRACTOR SHALL BE CERTIFIED BY THE MANUFACTURER TO BID AND INSTALL THE EQUIPMENT.
7. VERTICAL DISCHARGE UNITS SHALL BE MOUNTED ON NON-COMBUSTIBLE INSULATED RETURN AIR PLENUMS, REFER TO MECHANICAL DETAILS.

REMARKS:
A. INTEGRAL FILTER RACK/FILTERS (PROVIDE MERV 8, 2" THROW-AWAY FILTERS) (1) FACTORY INSTALLED, (1) REPLACEMENT SET INSTALLED IN THE FAN/COIL UNIT AT THE TIME OF FINAL ACCEPTANCE
B. PROVIDE FLEXIBLE DUCT CONNECTIONS FROM UNITS TO DUCTWORK.
C. PROVIDE FIELD INSTALLED DISCONNECT SWITCHES FOR EACH FCU & CONDENSING UNIT BY DIVISION 26 ELECTRICAL WORK, REFER TO ELECTRICAL DRAWINGS
D. PROVIDE DAIKIN BACNET THERMOSTATS. CONNECT OUTSIDE AIR SENSOR, FAN SWITCH REMOTE, SPACE SENSOR TO THERMOSTAT.
E. PROVIDE UNDER-THE-UNIT AUXILIARY SAFETY PAN WITH LIQUID DETECTION FLOAT SWITCH WIRED TO SHUT-DOWN FAN SYSTEM UPON LEAK DETECTION.
F. ALL UNITS SHALL BE SUPPLIED AS COMPLETE SYSTEMS WITH EXPANSION VALVES (TXV), FILTER DRYERS, SIGHT GLASS, CRANKCASE HEATER, HAL GUARDS AND R410A REFRIGERANT PIPING IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.
G. CONTRACTOR SHALL VERIFY WITH THE UNIT MANUFACTURER THAT REFRIGERANT LINES ARE WITHIN THE RECOMMENDED ALLOWABLE LINE LENGTHS OF RUN AND RISE. CONTACT ARCHITECT OR ENGINEER IF LINE LENGTHS EXCEED THESE REQUIREMENTS.

FAN SCHEDULE

FAN NUMBER	AREA SERVED	MANUFACTURER/MODEL	TOTAL CFM	E.S.P. IN W.C.	CONTROL	ACCESSORIES
EF-1	TOILET ROOMS	BROAN 678, CEILING MOUNTED, DIRECT DRIVE, ALS SERIES	70	0.25"	CONTINUOUS	BD, DS, FC, WC

GENERAL NOTES:
1. ACCEPTABLE ALTERNATE MANUFACTURERS: ACME, CARNES, FLO-MFG, GREENHECK, JENCO, PENN, COOK
2. ALL FANS ARE 208V, 1PH, 60HZ.
3. PROVIDE HANGER SUPPORTS WITH VIBRATION ISOLATORS FOR CEILING MOUNTED FANS
4. ALL FANS SHALL BE INSTALLED LEVEL.

ACCESSORIES:
AC - ALUMINUM CONSTRUCTION
BD - FACTORY INSTALLED ALUMINUM BACKDRAFT DAMPER
BS - ALUMINUM BIRDSCREEN
BV - BIRDS VENT
DS - DISCONNECT SWITCH, REFER TO ELECTRICAL DRAWINGS AND SPECIFICATIONS
FC - FLEXIBLE CONNECTOR TO DUCT
GS - GRAVITY SHUTTER
IS - ALUMINUM INSECT SCREEN
PC - PAINT COAT FOR FIELD PAINTING, COLOR SELECTION BY ARCHITECT
RC - ROOF CURB RCG-16, SLOPE TO MATCH ROOF PITCH
RD - RADIATION DAMPER, CURTAIN STYLE
RJ - ROOF JACK, PAINT TO MATCH ROOF, COLOR TO BE APPROVED BY ARCHITECT
SC - SOLID STATE FAN SPEED CONTROL, LR 10W, PREWIRED
VI - VIBRATION ISOLATORS KIT
WD - WALL CAP W/BACKDRAFT DAMPER
WG - WIRE GUARDS INLET & OUTLET

GRILLE & DIFFUSER SCHEDULE

MARK	MANUFACTURER & MODEL NO.	NECK SIZE	FACE SIZE	NO. ANGL.	DAMPER IN GRILLE	TYPE-MOUNTING	REMARKS
CD1	TITUS TMS	PER PLAN	12"X12"	24	YES	SUPPLY-SURFACE	A,B,C,D,E
RNG1	TITUS 50FF	PER PLAN	12"x12"	16	YES	RETURN-SURFACE MTD.	D,F

GENERAL NOTES:
1. COORDINATE FRAME TYPE WITH CEILING MATERIALS.
2. NOT ALL GRILLE AND DIFFUSERS SHOWN ARE NECESSARILY USED, REFER TO HVAC PLAN FOR LOCATION AND QUANTITY.
3. COORDINATE LOCATION OF GRILLES, REGISTERS AND DIFFUSERS WITH CEILING GRID, LIGHT LOCATIONS, STRUCTURAL MEMBERS AND ARCHITECTURAL FEATURES.
4. REFER TO SPECIFICATION FOR ACCEPTABLE ALTERNATE MANUFACTURERS.

REMARKS:
A. ALL STEEL CONSTRUCTION WITH #26 WHITE FINISH, FINAL FINISHES OF ALL AIR DEVICES SHALL BE VERIFIED WITH ARCHITECT'S FINISH AND PAINTING SCHEDULE.
B. BRANCH DUCT SIZE SHALL BE SAME AS NOTED DIFFUSER NECK SIZE UNLESS NOTED OTHERWISE
C. SUPPLY DIFFUSERS TO HAVE 4 WAY THROW UNLESS NOTED OTHERWISE.
D. PROVIDE NECK AND TRANSITION FOR DUCT CONNECTION AT DEVICE.
E. WHERE BACK PAN OF DIFFUSER IS EXPOSED TO NON-CONDITIONED ATTIC TYPE SPACES, PROVIDE FACTORY INS FOIL BACKED INSULATION TO MINIMIZE CONDENSATION.
F. OUTER BORDERS SHALL BE CONSTRUCTED OF HEAVY EXTRUDED ALUMINUM WITH A THICKNESS OF 0.080-0.093 INCH AND SHALL HAVE COUNTERSUNK SCREW HOLES FOR A NEAT APPEARANCE. BORDER WIDTH SHALL BE 1 ¼ INCHES ON ALL SIDES AND SHALL BE INTERLOCKED AT THE FOUR CORNERS AND MECHANICALLY SEALED TO FORM A RIGID FRAME. ALUMINUM GRID SHALL BE ¾ X ¾ X ¼ INCH. GRILLE SHALL BE PROVIDED WITH A FILTER FRAME FOR A STANDARD 1-INCH FILTER TO FIT THE SPECIFIED DUCT SIZE.

MECHANICAL KEYNOTES

M01	VERTICAL FAN COIL UNIT W/ ELECTRIC HEAT KIT, REF. 1/M001.
M02	CEILING MOUNTED EXHAUST FAN, REF. 2/M001.
M03	GROUND MOUNTED COMPOSITE UNIT HEAT PUMP, REF. 5/M001.
M08	TERMINATE EXHAUST AT WALL JACK. REF. ARCHITECT'S DRAWINGS FOR EXACT LOCATION.
M09	INSTALL SOFFIT VENT PER MANUFACTURER'S RECOMMENDATIONS.
M16	INSTALL RESTRICTED HOOD PER MANUFACTURER'S RECOMMENDATIONS.
M45	HVAC UNITS SHALL INCLUDE FLEXIBLE CONNECTIONS.

blue river ARCHITECTS
A Native American Owned Firm

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M101.A
TYPE A HVAC PLAN AND SCHEDULES

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(918) 582-4000 - FAX (918) 582-4087
CA COA: #7040 - EXP 06/30/2022

BLUE RIVER PROJECT NUMBER
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NO.	DESCRIPTION	DATE

SHEET NAME:
TYPE A HVAC PLAN AND SCHEDULES

SHEET NUMBER:
M101.A

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PIPE AND FITTINGS

- GATE VALVE
- GLOBE VALVE
- ANGLE GATE VALVE
- SOLENOID VALVE
- NON SLAM CHECK VALVE
- BUTTERFLY VALVE
- PLUG VALVE
- BALL VALVE
- TWO WAY CONTROL VALVE
- PRESSURE REGULATOR
- THREE WAY CONTROL VALVE
- PRESSURE REDUCING VALVE
- BUTTERFLY VALVE
- AUTOMATIC AIR VENT
- STRAINER, Y TYPE WITH GATE VALVE OR HOSE BIBB
- FLEXIBLE CONNECTION
- JOINT
- EXPANSION JOINT
- FLOW METER
- FLOW DIRECTION
- ELBOW BASE
- ELBOW REDUCING
- UNION
- PRESSURE GAUGE WITH TRI-COCK
- PRESSURE INDICATOR
- TENT PLUG
- TEMPERATURE INDICATOR
- FLOW SWITCH
- FLOW INDICATOR
- REDUCER, CONCENTRIC
- REDUCER, ECCENTRIC STRAIGHT-CROWN
- REDUCER, ECCENTRIC STRAIGHT-INVERT
- AUTO FLOW BALANCING VALVE
- FLOOR DRAIN W/P-TRAP
- FLOOR CLEANOUT
- WALL CLEANOUT
- BACKFLOW PREVENTER
- LUBRICATED PLUG COCK
- HOSE BIBB W/VACUUM BREAKER
- CAPPED END
- SIDEWALL SPRINKLER HEAD
- PENDENT SPRINKLER HEAD
- UPRIGHT SPRINKLER HEAD
- SIAMESE PIPE DEPARTMENT CONNECTION
- ALARM CHECK VALVE
- DELUGE VALVE
- PIPE SWAY BRACING
- PIPE ANCHOR SUPPORT
- BALANCING VALVE

ABBREVIATIONS

A		K	KOW
A	AIR		KILOWATT
ADV	ADJUVO		
ACCU	AIR COOLED CONDENSING UNIT	L	LAB
ACU	AGENT CHE GAS	LAT	LEAVING AIR TEMPERATURE
AC	AIR CONDITIONING UNIT	LAV	LAVATORY
AD	ACCESS DOOR	LB	POUND
AF	AIR FILTER	LD	LINEAR DIFFUSER
AFF	ABOVE FINISHED FLOOR	LDB	LEAVING DRY BULB
AFH	AIR FILTER, HIGH EFFICIENCY	LF	LINEAR FEET
AHU	AIR HANDLING UNIT	LFD	LAMINAR FLOW DIFFUSER
APG	AIR PRESSURE DROP	LP	LIQUID PROPANE
AR	ACID RESISTANT	LR	LITERS PER SECOND
ASSY	ASSEMBLY	LWB	LEAVING WET BULB
AUX	AUXILIARY	LWT	LEAVING WATER TEMPERATURE
AV	AUTOMATIC AIR VENT		
B	BOD	M	MAKEUP AIR UNIT
BDD	BACKDRAFT DAMPER	MAX	MAXIMUM
BHP	BRAKE HORSE POWER	MB	MIXING BOX/HOOF BASIN
BP	BACKFLOW PREVENTER	MBH	THOUSAND BTU/HR
BR	BIND TO RUBBER	MD	MOTORIZED DAMPER
C	C	MECH	MECHANICAL
CO	CONDENSATE	MIN	MINIMUM
CL	CENTER LINE	MM	MILLIMETER
CD	CEILING DIFFUSER	MOD	MOD OF STARTER
CFM	CUBIC FEET PER MINUTE		
CH	CHILLER	N	N
CHDR	CHEMICAL DRAIN	NC	NITROGEN
CHP	CHILLED WATER PUMP	NO	NORMALLY CLOSED
CLG	CEILING	NG	NATURAL GAS
CO	CLEANOUT	NIC	NOT IN CONTRACT
CONC	CONCRETE	MO	MUMBER
CONN	CONNECTION	NOX	NITROGEN OXIDE
CONT	CONTINUED/CONTINUATION/CONTINUOUS	NTS	NOT TO SCALE
CONTD	CLEAN OUT TO GRADE	O	O
CU	CONDENSING UNIT/COPPER	OA	OXYGEN
CV	CONSTANT VOLUME	OAL	OUTSIDE AIR
CW	COLD WATER	OBD	OUTSIDE AIR LOUVER
		OE	OPPOSED BLADE DAMPER
D	DDC	OS	ON CENTER
DA	DIRECT DIGITAL CONTROL	OSA	OVERSPRAY SCUPPER
DIA	DOUBLE GRILLE	OSAY	OUTSIDE SCREEN & VOICE
DIM	DIAMETER		
DMPR	DIMENSION	P	PD
DN	DOWN	POC	PRESSURE DROP
DPS	DIFFERENTIAL PRESSURE SWITCH	PRESS	POINT OF CONNECTION
DR	DRAIN	PRV	PRESSURE
DSD	DUCT SMOKE DETECTOR	PVC	PRESSURE REDUCING VALVE
DSW	DISTILLED WATER		POUNDS PER SQUARE INCH
DWG	DRAWING		POLYVINYL CHLORIDE
E	EAT	R	RA
EG	ENTERING AIR TEMPERATURE	RAG	RETURN AIR
EDB	EQUIPMENT DRAIN	RAR	RETURN AIR GRILLE
EDS	ENTERING DRY BULB	RC	RETURN AIR REGISTER
EER	ENERGY EFFICIENCY RATIO	RD	RAIN CHAIN/DOTOR
EF	EXHAUST FAN	REF	ROOF DRAIN
EFF	EFFICIENCY	RF	REFRIGERANT
EG	EXHAUST GRILLE	RL	REFUNDITAS
EL	ELEVATION	RM	RAIN LEADER
ELEC	ELECTRICAL	RTN	ROOM
ENT	ENTERING		RETURN
ER	EXHAUST REGISTER	S	SA
EWB	ENTERING WET BULB	SAG	SUPPLY AIR
EWC	ENTERING WATER COOLER	SAR	SAN/TARY
EWT	ENTERING WATER TEMPERATURE	SD	SUPPLY AIR REGISTER
EXH	EXHAUST	SDD	SMOKE DAMPER
EWS	EYE WASH/SHOWER STATION	SF	SMOKE DAMPER/FIRE DAMP.
		SH	SUPPLY FAN
F	FCO	SP	SHELF
FD	FLOOR CLEANOUT	SCFT	STATIC PRESSURE
FH	FIRE DAMPER/FLOOR DRAIN	SST	SQUARE FEET
FL	FUME HOOD		STAINLESS STEEL
FLGX	FLOOR	T	TCU
FPM	FLEXIBLE	TEMP	TERMINAL CONTROL UNIT
FOS	FUEL OIL RETURN	TG	TEMPERATURE
FP	FUEL OIL SUPPLY	TP	TRANSFER GRILLE
FPI	FIRE PUMP	TYP	TRAP PRIMER
FPM	FIRE PER INCH		TYPICAL
FT	FEET PER MINUTE		
FV	FEET	U	UC
	FACE VELOCITY		UNDERCUT
G	GA	V	V
GV	GAUGE	VAV	VENT
GND	GRAVITY INTAKE VENTILATOR	VD	VARIABLE AIR VOLUME
GPM	GROUND	VEL	VOLUME DAMPER
GRV	GALLONS PER MINUTE	VERT	VELOCITY
	GRAVITY RELIEF VENTILATOR	VFD	VERTICAL
H	HB	VSD	VARIABLE FREQUENCY DRIVE
HOSE	HOSE BIBB	VTR	VARIABLE SPEED DRIVE
HORZ	HORIZONTAL		VENT THRU ROOF
HP	HORSE POWER/HEAT PUMP	W	W
HTG	HEATING	WIO	WITH
HUMID	HUMIDISTAT	WOD	WITHOUT
HWS	HOT WATER SUPPLY	WC	WALL CLEANOUT
HWB	HOT WATER BOILER	WH	WATER COLUMN
HWP	HOT WATER PUMP	WHA	WALL HYDRANT
HWR	HOT WATER RETURN	WR	WATER HAMMER ARRESTORS
		WTR	WATER HEIGHT
I	ID		WATER
IN	INSIDE DIAMETER		
INV EL	INCHES		
	INVERT ELEVATION		

DOMESTIC WATER GENERAL NOTES

1. CUTOFF VALVES AND STOPS SHALL BE PROVIDED WHERE SHOWN ON DRAWINGS AND AT FIXTURE CONNECTIONS.

2. TEST ALL WATER SYSTEM IN PRESENCE OF OWNER'S REPRESENTATIVE AT MIN. 100 PSIG FOR 8 HOURS. SANITARY, WASTES AND VENTS SHALL BE TESTED WITH 10 HEAD OF WATER FOR 8 HOURS WITH LEVEL OF WATER REMAIN UNCHANGED.

3. INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS AND RECOMMENDATIONS.

4. INSTALL ALL WATER PIPING SYSTEMS SO THAT THEY WILL NOT BE SUBJECT TO ANY UNDUE STRAINS OR STRESSES. PROVISIONS SHALL BE MADE FOR EXPANSION, CONTRACTION AND STRUCTURAL SETTLEMENT.

5. ALL PENETRATIONS THROUGH FIRE RATED WALLS AND FLOOR CEILINGS ASSEMBLY SHALL BE INSTALLED AND SEALED TO MAINTAIN FIRE RATING WITH U.L. LISTED ASSEMBLIES, MATERIALS AND SEALANTS.

6. BELOW GROUND PIPE SHALL BE INSTALLED NO LESS THAN 6" BELOW FROST LINE. REFER TO STRUCTURAL DETAILS FOR FOUNDATION PENETRATION.

7. DRAWING IS DIAGRAMATIC IN NATURE, AND IS NOT INTENDED TO BE SCALED FOR DIMENSIONS.

8. COORDINATE LOCATION OF PLUMBING WORK WITH OTHER TRADES TO AVOID CONFLICTS AND INTERFERENCES.

9. ALL TESTING IS THE RESPONSIBILITY OF THE CONTRACTOR, WITHOUT EXTRA COST FOR THE OWNER.

10. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A WATER FLOW AND PRESSURE TEST FOR EVALUATING INCOMING DOMESTIC AND FIRE PROTECTION SERVICE PRESSURES.

11. WHERE STREET WATER MAIN PRESSURES FLUCTUATE, THE BUILDING WATER DISTRIBUTION SYSTEM SHALL BE DESIGNED FOR MINIMUM PRESSURE AVAILABLE. WHEREVER WATER PRESSURE FROM THE STREET MAIN OR OTHER SOURCE OF SUPPLY IS IN EXCESS OF 80 PSI, A WATER PRESSURE BOOSTER SYSTEM SHALL BE INSTALLED ON THE BUILDING WATER SUPPLY SYSTEM. WHERE WATER PRESSURE WITHIN A BUILDING EXCEEDS 80 PSI STATIC, AN APPROVED WATER PRESSURE REDUCING VALVE WITH STRAINER CONFORMING TO ASSE 1003 SHALL BE INSTALLED TO REDUCE THE PRESSURE TO BELOW 80 PSI.

12. PROVIDE COLOR-MATCHING CAULKING AT ALL FOOTING SLEEVES.

PIPE LINES

- POTABLE COLD WATER
- POTABLE HOT WATER
- POTABLE HOT WATER RETURN
- VENT

PIPE TAGS

300" CW	POTABLE COLD WATER
300" HW	POTABLE HOT WATER
300" HWR	POTABLE HOT WATER RETURN
300" V	VENT
300" CA	COMPRESSED AIR
300" SS	SANITARY SEWER
300" OW	OIL/WASTE WATER
300" G	NATURAL GAS
300" VTR	VENT THROUGH ROOF

SANITARY SEWER GENERAL NOTES

1. PROVIDE CLEANOUTS AT LOCATIONS AND WITH CLEARANCES AS REQUIRED BY THE CODE NOT EXCEEDING 50 FEET IN HORIZONTAL RUNS AT EACH CHANGE OF DIRECTION, VERTICAL OR HORIZONTAL GREATER THAN 45°, AT THE BASE OF EACH WASTE OR VENT STACKS FEET AFF. PROVIDE WALL CLEANOUTS IN LIEU OF FLOOR CLEANOUTS WHEREVER POSSIBLE. ALL INTERIOR CLEANOUTS SHALL BE ACCESSIBLE FROM WALLS OR FLOORS.

2. THE FLOOR DRAIN IN TOILETS AND MECHANICAL ROOMS SHALL BE PROVIDED WITH BACKWATER VALVES.

3. MAINTAIN MINIMUM OF 10 FEET CLEARANCE BETWEEN ANY VTR AND OUTSIDE AIR INTAKES. WHERE HORIZONTAL CLEARANCE CANNOT BE PROVIDED, EXTEND VENTS A MIN OF 2ft" ABOVE EACH OUTSIDE AIR INTAKE.

4. VTR/ROOF PENETRATIONS, WATER PROOFING AND FLASHINGS SHALL BE PROVIDED BY ROOF CONTRACTOR.

5. ALL TESTING IS THE RESPONSIBILITY OF THE CONTRACTOR, TEST ALL SEWER AND VENT SYSTEMS IN PRESENCE OF OWNERS REPRESENTATIVE.

6. INVERT ELEVATION SHOWN BASED ON 100.0 FT. FF ELEVATION, REFER TO CIVIL DRAWINGS FOR ACTUAL ELEVATIONS.

7. SEWER PIPE SHALL BE INSTALLED NO LESS THAN 6" BELOW THE FROST LINE.

8. PROVIDE COLOR MATCHING CAULKING AT ALL FOOTING SLEEVES.

NOTE:
THIS IS A STANDARD SYMBOLS & ABBREVIATIONS SHEET, THEREFORE, SOME SYMBOLS & ABBREVIATIONS MAY APPEAR ON THIS SHEET AND NOT ON THE PLANS.

PLUMBING FIXTURE SCHEDULE

MARK	MFR/MODEL	DESCRIPTION	RUN-OUT SIZES (MIN.) SAN.	TRAP	VENT	CW	HW	NOTES
WC1	AMERICAN STANDARD CHAMPION 4	TOILET, WHITE, ELONGATED CHAIR HEIGHT 2 PIECE TOILET 1.6" FLUSH IN (ADA COMPLIANT)	4"	–	2"	1"	N/A	ALL
	ZURN Z1300 & Z1304	CLOSET CARRIERS: 500 LB. MINIMUM CAPACITY, DURA-COATED CAST IRON, VENT COMBINATION, ADJUSTABLE GASKETED FACEPLATE, UNIVERSAL FLOOR MOUNTED FOOT SUPPORTS, CORROSION RESISTANT ADJUSTABLE ABS COUPLING WITH INTEGRAL TEST CAP, FIXTURE BOLTS, TRIM, AND SITUS PROTECTOR, REAR ANCHOR TIE DOWN, ADJUSTABLE HORIZONTAL SPIGOT, NO HUB (Z1300 SERIES) OR ADJUSTABLE VERTICAL SPIGOT, NO-HUB (Z1304 SERIES) REFER TO PLANS FOR SYSTEM.						
	BEMIS 1955SSECRT	SEAT: WHITE, ELONGATED SEAT, OPEN FRONT LESS COVER, SOLID PLASTIC WITH STAINLESS STEEL CHROME HINGES.						
L1	AQUASOURCE BISCUIT	DROP-IN TRADITIONAL BATHROOM SINK WITH OVERFLOW DRAIN 19"X16".	2"	1 1/4"	1 1/2"	1/2"	1/2"	ALL
	MOEN ADLER	SPOT RESIST BRUSHED NICKEL 2-HANDLE 4-IN CENTERSET WATERSENSE LOW-ARC BATHROOM SINK FAUCET WITH DRAIN.						
SK1	AMERICAN STANDARD COLONY	DROP-IN 33"X22" STAINLESS STEEL DOUBLE EQUAL BOWL 4-HOLE STAINLESS STEEL.	2"	1 1/2"	1 1/2"	1/2"	1/2"	ALL
	MOEN ADLER	SPOT RESIST STAINLESS SINGLE HANDLE PULL-DOWN KITCHEN FAUCET WITH SPRAYER (FUNCTION CHECK PLATE INCLUDED)						
	INSINK-ERATOR BADGER 5	GARBAGE DISPOSAL: DISHWASHER DRAIN CONNECTION, ½ HP, 120V 60HZ, AC ONLY 15 OR 20 AMP FUSED, GROUNDED ELECTRICAL SUPPLY IS REQUIRED.						
SH	MOEN TB4355P16	ADA SHOWER HEAD: MOEN CHROME TRANSFER POST-TEMP KIT.	–	–	–	1/2"	1/2"	ALL
WB	DATEY ELIMINATOR OUTLET BOX	SINGLE DRAIN WITH TWO PORTS DESIGNED TO ACCOMMODATE ADDITIONAL DRAIN LINES. SNAP-IN CLAMP STAINLESS ADDITIONAL LINES.	2"	–	–	1/8"	1/8"	ALL
DWM	VIEGA MANIFOLD 46506	24 PORT PEX DOMESTIC WATER MANIFOLD.	2"	–	–	1/2"	1/2"	ALL

NOTES:

1. PROVIDE CHROME PLATED BRASS ADJUSTABLE P-TRAPS AND SUPPLY STOPS AND escutcheon PLATES AS REQUIRED FOR EACH FIXTURE.
2. NO SUBSTITUTIONS WITHOUT ENGINEER OR ARCHITECT APPROVAL.
   MANUFACTURERS OFFERING EQUIVALENT PRODUCTS FOR THE FOLLOWING:
   FLUSHOMETER VALVES: DELANEY, SLOAN.
   VITREOUS CHINA FIXTURES: CRANE, ELJER, KOHLER, SLOAN.
   WATER CLOSET SEATS: BEMIS, CHURCH, OLDSMITH.
   SUPPLY FITTINGS: AMERICAN STANDARD, KOHLER, T&S BRASS.
   ELECTRIC WATER COOLERS: ACORN.
3. ALL FIXTURES SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S INSTRUCTIONS AND REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.
4. DESCRIPTION OF FIXTURE IN SCHEDULE TAKES PRECEDENCE OVER MODEL NUMBERS. FIXTURE SUPPLIER SHALL PROVIDE REQUIRED ACCESSORIES AND OPTIONS FOR THE INTENDED INSTALLATION AND USE.

ABBREVIATIONS:

ADA	= AMERICANS WITH DISABILITIES ACT	AFF	= ABOVE FINISH FLOOR
GPF	= GALLONS PER FLUSH	V.C.	= VITREOUS CHINA
C.P.J.	= CHROME PLATED BRASS	TAS	= TEXAS ACCESSIBILITY STANDARD

ELECTRIC WATER HEATER SCHEDULE

MARK	MFR/MODEL	DESCRIPTION	VIP/HZ	REMARKS
WH1	AQUAMITE PRO-UNIT EUDT-30	ELECTRIC WATER HEATER, SIDE MOUNTED PLUMBING AND ELECTRICAL, 30GV 80W, 15 GALLON STORAGE TANK, RECOVERY RATE: 11 GPH AT 90 DEGREE RISE, SET DISCHARGE TEMP. TO 110 DEGREES F, SHIPPING WEIGHT APPROX. 60 LBS.	240/1/60	ALL
WH2	AQUAMITE PREMIUM EHL-02	ELECTRIC WATER HEATER, LOWBOY TOP-CONNECT, 50W 6W TOTAL INPUT, DUAL ELEMENT, NON-SIMULTANEOUS OPERATION, 50 GALLON STORAGE TANK, RECOVERY RATE: 121 GPH AT 90 DEGREE RISE, SET DISCHARGE TEMP. TO 110 DEGREES F, SHIPPING WEIGHT APPROX. 115 LBS.	240/1/60	ALL

GENERAL NOTES (ALL UNITS):

1. REFER TO DIVISION 26 or 22 SPECIFICATIONS
2. ACCEPTABLE ALTERNATE MANUFACTURERS: (BRADFORD-WHITE, STATE, RHEEM) . CONTRACTOR SHALL MAKE ALL REQUIRED MODIFICATIONS FOR ALTERNATE MANUFACTURERS.
3. INSTALL WATER HEATERS COMPLETE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
4. PROVIDE TEMPERATURE AND PRESSURE RELIEF VALVE PER ASME OR ACA APPROVAL. PIPE TO FLOOR DRAIN.

REMARKS:

A. INSTALL WATER HEATERS PER DETAIL (SP001).
B. PROVIDE MANUFACTURER'S SAFETY PAN AND OVERFLOW DRAIN PIPE TO FLOOR DRAIN.
C. PROVIDE EXPANSION TANK (PT) IF REQUIRED BY LOCAL CODE AUTHORITY. REFER TO PLUMBING SPECIALTIES SCHEDULE.
D. WATTAGE LISTED IS FOR EACH ELEMENT, ALL WATER HEATERS ARE DUAL ELEMENT NON-SIMULTANEOUS.
E. FOLLOW WATER HEATER MANUFACTURER'S WALL MOUNTING BRACKET.
F. 113 °F OUTLET TEMPERATURE.
G. MOUNT ON PLATFORM 48" A.F.F.

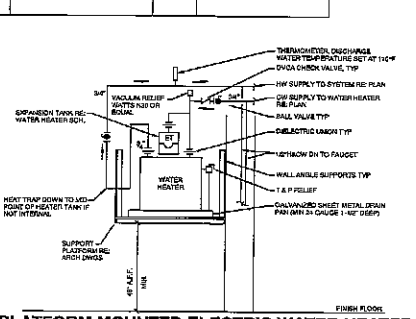
ABBREVIATIONS: GPH – GALLONS PER HOUR.

PLUMBING SPECIALTIES SCHEDULE

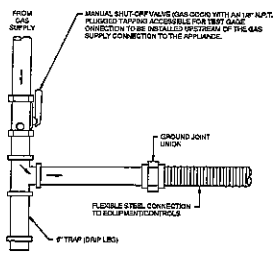
MARK	MFR/MODEL	DESCRIPTION
FD	ZURN ZN-415-65-P	LIGHT DUTY FLOOR DRAIN; 9" SQ. STRAINER, CAST IRON DRAIN W/ FLANGE, REVERSING CLAMPING COLLAR, ADJUSTABLE SQUARE NICKEL-BRONZE STRAINER, BOTTOM OUTLET, TRAP PRIMER CONNECTION, 2" TRAP AND OUTLET UNLESS NOTED OTHERWISE, WHERE APPROVED BY LOCAL AHJ, CONTRACTOR MAY INSTALL A TRAP GUARD (RM IN LIEU OF TRAP PRIMER) (TP).
SD	ZURN ZN-415-65-Y	LIGHT DUTY SHOWER DRAIN; 5" SQ. STRAINER, CAST IRON DRAIN W/ FLANGE, REVERSING CLAMPING COLLAR, ADJUSTABLE SQUARE NICKEL-BRONZE STRAINER, BOTTOM OUTLET WITH SEDIMENT BUCKET, 2" TRAP AND OUTLET UNLESS NOTED OTHERWISE.
FCO	ZURN ZN-1469	FLOOR CLEANOUT WITH WATER-GAS TIGHT AND THREADED PLUG, POLISHED NICKEL BRONZE DECORATIVE ACCESS COVER.
YCO	ZURN Z-1474	YARD CLEANOUT; HEAVY DUTY HOUSING, DURA-COATED CAST IRON BODY WITH INTEGRAL ANCHOR FLANGE, SECURED SCORIATED COVER WITH LIFTING DEVICE.
FPWH	WOODFORD 865	FREEZE PROOF WALL HYDRANT, CONCEALED BOX TYPE, AUTOMATIC DRAINING WITH ANTI-SIPHON VACUUM BREAKER, ASSE STANDARD 1019/4, 10 DEG TEE KEY.
RB	WATTS/BYE AMF700M2/700	REPTIGLEATOR (RG); LOW LEAD, CHROME 1/4" TURN VALVE WITH 1 1/2" SWEAT CONNECTION (A6700), WITH 1/2" PEX CONNECTION (A6700)
RPZ	WATTS 009QT/ LF009	LEAD FREE REDUCED PRESSURE ZONE ASSEMBLY. PROVIDE WITH GAP AND TETHER TEST COCKS, QUARTER-TURN BALL VALVES, DRAINER. STRAINER AND DRAIN LINE AIR GAP FITTING MODEL 999AG, ROUTE FULL LINE SIZE TO FLOOR DRAIN.
ET	WATTS DETA LEAD FREE	ASME PRESSURIZED EXPANSION TANK FOR POTABLE WATER, ASME FOOD GLASSLINE, PRE-CHARGED, INSTALL IN LINE TO WATER HEATER.
WSH	WATER-TITE WA700HA	WASHER BOX CENTER DRAIN WASHING MACHINE OUTLET BOX WITH FACTORY INSTALLED BRASS QUARTER TURN ARRESTER VALVES, 2" DRAIN CONNECTION AND 1/2" PEX CONNECTION, MOUNT BOX AT 42" AFF.
AAV	STUDOR MINI-VENT	AIR ADMITTANCE VALVE, SCREENING ON THE INSIDE AND OUTSIDE OF VALVE, PROTECTIVE COVER FOR AIR INTAKE AND ADDITIONAL INSULATION AGAINST EXTREME TEMPERATURES.

NOTES:

1. ALL DEVICES SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER INSTRUCTIONS AND THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION (AHJ).
2. THE DEVICE DESCRIPTION IN THE SCHEDULE TAKES PRECEDENCE OVER MODEL NUMBERS. FIXTURE SUPPLIER SHALL PROVIDE THE REQUIRED ACCESSORIES AND OPTIONS FOR THE INTENDED INSTALLATION AND USE.
3. OTHER MANUFACTURERS OFFERING EQUIVALENT PRODUCTS: ARE ACORN, JOSAM, MIFAB, WADE, J.R. SMITH, SYMMONS, POWERS, LAWLER AND WATTS.
4. ALL FIXTURES AND FITTINGS USED TO CONVEY POTABLE WATER SHALL BE LEAD FREE.



6 PLATFORM MOUNTED ELECTRIC WATER HEATER
NTS



1 GAS CONNECTION DETAIL
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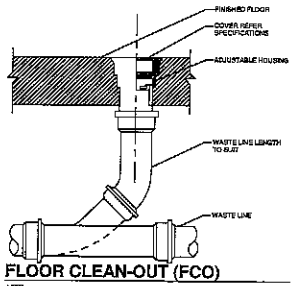
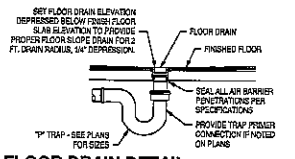


2 FLOOR CLEAN-OUT (FCO)
NTS



3 FLOOR DRAIN DETAIL
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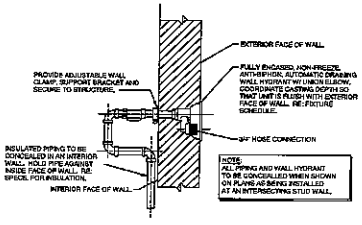

4 FREEZE PROOF WALL HYDRANT (FPWH)
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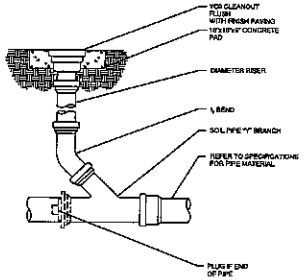

5 YARD CLEAN-OUT (YCO)
NTS

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A Notre American Owned Firm

SCOTT C. HIGGS
OKLAHOMA
19013
4-27-23

HACN BIRDTAIL ADDITION
18511 SOUTH 688 ROAD
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P001
PLUMBING NOTES AND DETAILS

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BLUE RIVER PROJECT NUMBER
20210212.19
ISSUE DATE
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ISSUE
CONSTRUCTION DOCUMENTS - ABOVE
UPGRADE
OTHER ISSUE DATES
NO. DESCRIPTION DATE

SHEET NAME
PLUMBING NOTES AND DETAILS

SHEET NUMBER
P001

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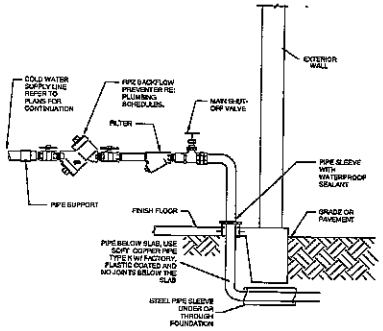

4 DOMESTIC WATER ENTRY DETAIL A
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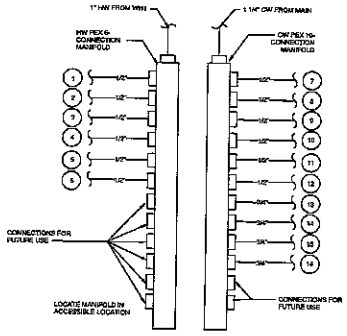

3 DOMESTIC WATER MANIFOLD A
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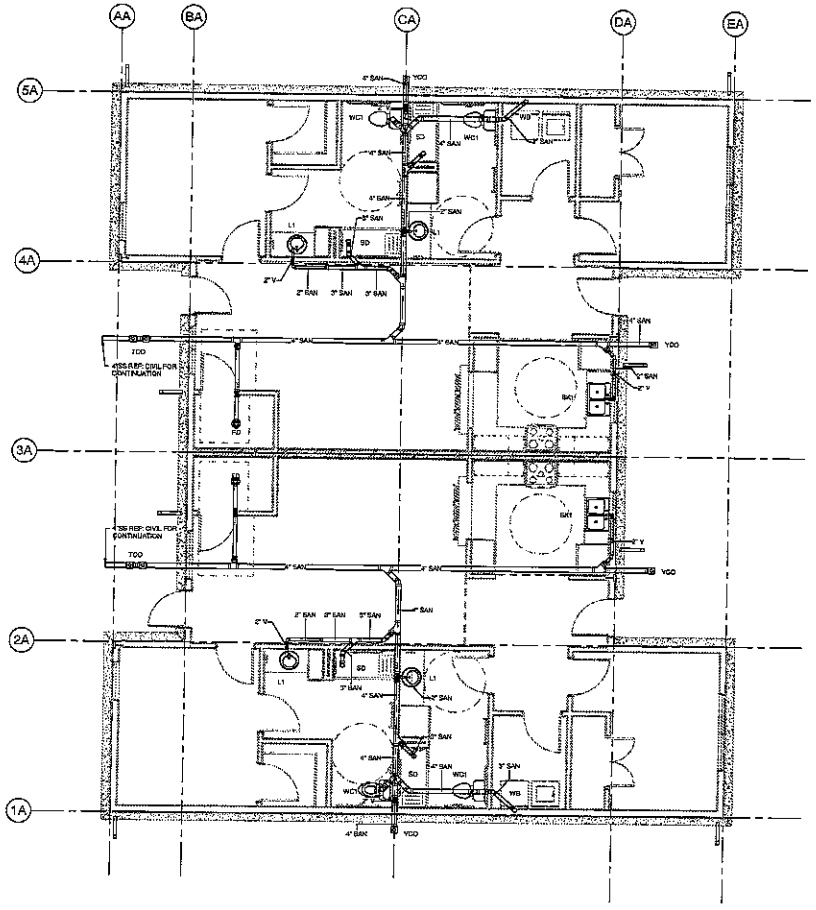
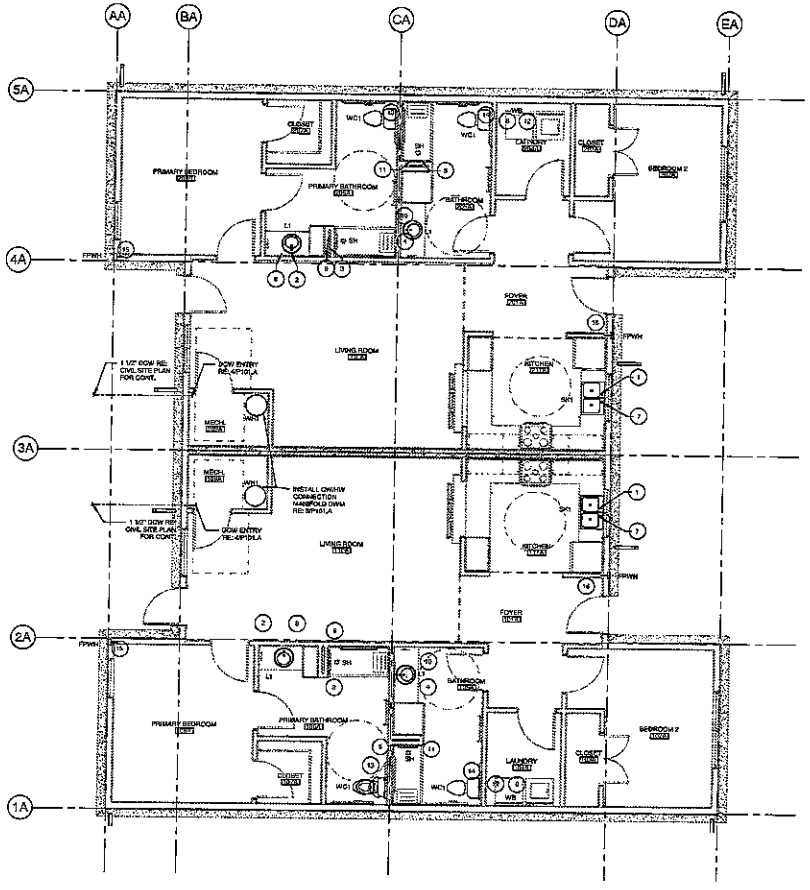


1 UNDER SLAB SANITARY PLAN A
1/4" = 1'-0"



2 UNDER SLAB DOMESTIC WATER PLAN A
1/4" = 1'-0"

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P101.A
2 BED DUPLEX PLUMBING PLANS

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SHEET NAME
2 BED DUPLEX PLUMBING PLANS

SHEET NUMBER
P101.A

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ELECTRICAL LEGEND

(NOT ALL SYMBOLS MAY BE USED)

SYMBOL	DESCRIPTION
J	JUNCTION BOX
	RECEPTACLE, 120V DUPLEX
	RECEPTACLE, 120V GFI DUPLEX
	RECEPTACLE, 240V SINGLEX
	RECEPTACLE, 120V QUADPLEX
	PANELBOARD
	DISCONNECT SWITCH, NON-FUSED
	DISCONNECT SWITCH, FUSED
	SWITCH, SINGLE POLE
3	SWITCH, 3-WAY
4	SWITCH, 4-WAY
D	SWITCH, DIMMER
	LIGHT FIXTURE, LINEAR
	LIGHT FIXTURE, CEILING MOUNTED
	LIGHT FIXTURE, WALL MOUNTED
	CIRCUIT, CONCEALED IN WALLS OR CEILING
	CIRCUIT, CONCEALED IN SLAB
	TELEPHONE
	DATA
	DATA AND COAXIAL CONNECTION UNDER SINGLE FACE PLATE
SD	SMOKE / CARBON MONOXIDE DETECTOR

ABBREVIATIONS:
AFF – ABOVE FINISHED FLOOR
WP – WEATHER PROOF
AFCI – ARC FAULT CIRCUIT INTERRUPTING
GFCI – GROUND FAULT CIRCUIT INTERRUPTING
AC – ABOVE COUNTER
TR – TAMPER RESISTANT
CF – CEILING FAN
EC – ELECTRICAL CONTRACTOR
EF – EXHAUST FAN
NTS – NOT TO SCALE
FCU – FAN COIL UNIT (INDOOR)
HP – HEAT PUMP (OUTDOOR)
WH – WATER HEATER
UNO – UNLESS OTHERWISE NOTED

GENERAL NOTES:

1. NOT ALL SYMBOLS MAY APPLY TO ALL SHEETS.
2. PROVIDE ALL POWER CIRCUITS, WIRING, CONDUIT, OUTLETS, DISCONNECT SWITCHES, ETC., AND PROVIDE FINAL ELECTRICAL CONNECTIONS TO ALL EQUIPMENT.
3. PROVIDE A GROUNDING CONDUCTOR FOR ALL CIRCUITS IN ACCORDANCE WITH NEC, ARTICLE 250. VERIFY EXACT CONNECTIONS REQUIRED FOR ALL EQUIPMENT PRIOR TO ROUGH-IN.
4. THE USE OF EXTENSION CORDS OR POWER STRIPS AS PERMANENT WIRING TO EQUIPMENT, LIGHTING, FANS, ETC., IS PROHIBITED. ALL ELECTRICAL WIRING SHALL BE IN COMPLIANCE WITH THE LATEST ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE.
5. ALL ELECTRICAL DEVICE AND COVER PLATE COLORS TO BE COORDINATED WITH ARCHITECTURAL FINISH PLANS.
6. ALL DEVICES LOCATED WITHIN CLOSE PROXIMITY TO ONE ANOTHER SHALL BE COVERED BY A SINGLE FACE PLATE WHENEVER POSSIBLE.
7. ALL WORK SHALL BE PERFORMED IN STRICT COMPLIANCE WITH THE LATEST ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE (NEC), AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES. WHERE CONFLICTS ARISE, THE MOST STRINGENT REQUIREMENTS SHALL TAKE PRECEDENCE.
8. BIDDERS SHALL VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS TO FULLY UNDERSTAND THE NATURE AND SCOPE OF THE WORK PRIOR TO SUBMITTING A BID. THE SUBMISSION OF A BID IS CONSIDERED EVIDENCE THAT SUCH EXAMINATION HAS BEEN PERFORMED AND THAT COMPLIANCE WITH ALL CONTRACT REQUIREMENTS IS INCLUDED IN BID. LATER CLAIMS FOR LABOR, EQUIPMENT, MATERIALS REQUIRED, OR FORESEEABLE DIFFICULTIES ENCOUNTERED SHALL NOT BE ALLOWED. ALL PERMIT AND INSPECTION FEES SHALL BE INCLUDED IN BASE BID.

GENERAL POWER NOTES:

1. PROTECT ALL ADJACENT SURFACES DURING CONSTRUCTION. ANY SURFACES DAMAGED SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
2. CONTRACTOR SHALL COORDINATE INSTALLATION OF ELECTRICAL SYSTEMS WITH OTHER TRADES. SEE MECHANICAL AND PLUMBING DRAWINGS FOR EXACT LOCATIONS OF MECHANICAL AND PLUMBING EQUIPMENT.
3. PROVIDE A IN-GROUND PULL BOX EVERY 200' FOR ALL UNDERGROUND CONDUIT RUNS.
4. WIRING DEVICES, DEVICE MOUNTING HEIGHTS ARE FROM FINISHED FLOOR TO CENTER OF OUTLET BOX UNLESS NOTED OTHERWISE ON PLANS. COORDINATE THE STANDARD MOUNTING HEIGHTS WITH MASONRY. REFERENCE TYPICAL MOUNTING HEIGHT SCHEDULE FOR MOUNTING HEIGHTS.
5. WIRING SHALL INCLUDE FINAL CONNECTIONS TO ALL EQUIPMENT IN CONFORMANCE WITH EQUIPMENT SUPPLIER WIRING DIAGRAMS.
6. CONTRACTOR IS RESPONSIBLE FOR PROVIDING COMPLETE PANELBOARD IDENTIFICATION SCHEDULES UPON COMPLETION.
7. WHERE BRANCH CIRCUITS ARE GROUPED, SIZE CONDUITS AND DE-RATE CURRENT CARRYING CONDUCTORS PER NEC.
8. PROVIDE APPROPRIATE HANDLE TIES FOR TWO SINGLE POLE CIRCUIT BREAKERS AS REQUIRED WHEN USING MULTIWIRE BRANCH CIRCUITS PER NEC ARTICLE 210.4 PART (B).
9. PROVIDE BLANK FILLERS FOR ALL UNUSED SPACES IN PANELBOARDS WHERE FACTORY KNOCKOUTS HAVE BEEN REMOVED.
10. FEEDERS SHALL CONFORM TO NEC 215.2. BRANCH CIRCUITS AND VOLTAGE DROP REQUIREMENTS SHALL CONFORM TO NEC 210.19(A).
11. ONLY FEEDER CIRCUITS SPECIFICALLY NOTED AS UNDERGROUND ON THE ONE-LINE DIAGRAM AND BRANCH CIRCUITS NOTED BY LEGEND SHALL BE INSTALLED UNDER SLAB. ALL OTHER FEEDER AND BRANCH CIRCUITS SHALL BE INSTALLED OVERHEAD WHERE POSSIBLE. ALL SITE CONDUITS SHALL BE INSTALL AT A MINIMUM OF 24" UNDER FINISHED GRADE.
12. HOME RUNS ARE SHOWN SEPARATELY TO PRESERVE DRAWING CLARITY. COMBINE HOME RUNS SERVING LIGHTING AND WIRING DEVICES AS ALLOWED BY THE NEC.
13. NO EXPOSED CONDUIT OR WIRING IN FINISHED SPACES SHALL BE ALLOWED WITHOUT WRITTEN PERMISSION FROM ARCHITECT/OWNER.

GENERAL LIGHTING NOTES::

1. PROVIDE ALL ACCESSORIES REQUIRED FOR FUNCTIONAL ELECTRICAL INSTALLATION AND SUPPORT.
2. PROVIDE DRY WALL/PLASTER KIT FOR FIXTURES MOUNTED ON GYPSUM BOARD PER CEILING PLAN.
3. LIGHT FIXTURES SHALL BE SUPPORTED IN ACCORDANCE WITH NEC ARTICLE 300; SPECIFICALLY PARAGRAPH 300.11(A).
4. COORDINATE EXACT FIXTURE LOCATIONS WITH STRUCTURE, DIFFUSERS, ETC.
5. THE LOCATION OF DUCTS, PIPE AND EQUIPMENT AS SHOWN ON THE DRAWINGS IS DIAGRAMMATIC AND SCHEMATIC. IT IS THE RESPONSIBILITY OF OF THE CONTRACTOR TO COORDINATE WITH ALL OTHER TRADES BEFORE INSTALLATION. LIGHT FIXTURE LOCATIONS SUPERSEDE HVAC DUCTWORK, GRILLES AND DIFFUSERS. OFF SET TO AVOID STRUCTURE AND/OR ANY OTHER PIPING.
6. REFER TO LIGHT FIXTURE SCHEDULE FOR ALL LIGHT FIXTURES THAT ARE IC RATED. ALL RECESSED FIXTURES SHALL ADHERE TO ARTICLE 410.116 OF THE NATIONAL ELECTRICAL CODE (NEC).
7. PROVIDE TWO COPIES OF OPERATION AND MAINTENANCE MANUALS FOR ALL LIGHT FIXTURES AND LIGHT CONTROLS.

TYPICAL MOUNTING HEIGHTS

ALL HEIGHTS ARE FROM FINISHED FLOOR TO THE CENTERLINE OF THE DEVICE UNLESS NOTED OTHERWISE. DEVICES ABOVE A COUNTERTOP SHALL BE MOUNTED 4" ABOVE THE BACKSPLASH TO THE CENTERLINE.

RECEPTACLES	+18"
TELEPHONE JACKS	+48"
DATA JACKS	+18"
SWITCHES	+48"

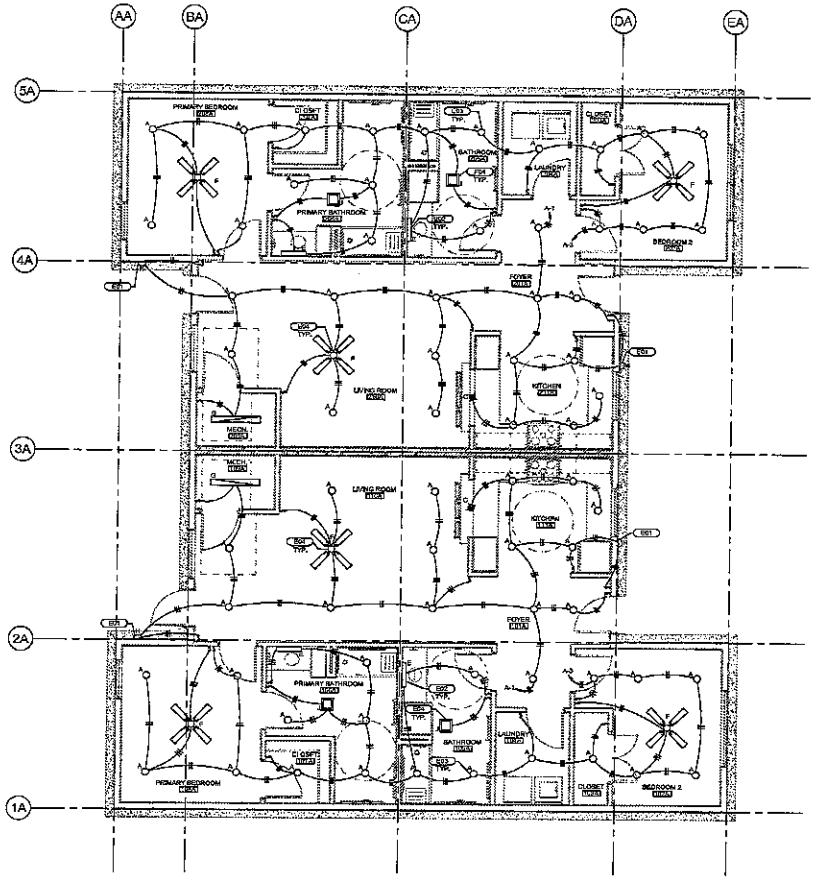
LIGHTING FIXTURE SCHEDULE

TYPE	FIXTURE COUNT	MANUFACTURER	CATALOG NUMBER	VOLT	WATT	LAMP	DESCRIPTION
A	A-55, B-52, C-50	ELITE	RELS37-1200L-DIMTR-120-30K-90-WH	120V	16 VA	LED	6" RECESSED CAN LIGHT, DAMP LOCATION RATED, RT-CL-WH
C	A-2	PROGRESS	P5108-09	120V	100 VA	LED	BAR PENDANT LIGHT
E	A-4, B-4, C-3	VOGUE	P2706	120V	45 VA	LED	VANITY 5 LIGHT, BRUSHED NICKEL, PROVIDE (3) 3K CCT A21 BULBS
F	A-6, B-6, C-5	ESLP	CCF7-15L-120V-40K	120V	19 VA	LED	CEILING FAN W/ LIGHT - VERIFY COLOR W/ ARCHITECTURAL
G	A-2, B-2, C-1	PROGRESS	P73001	120V	40 VA	LED	14" SURFACE MOUNT
H	A-4, B-2, C-2	PROGRESS	P5813	120V	15 VA	LED	WHITE GLOBE LATERN, PROVIDE 4K CCT A21 BULB RATED FOR FULL ENCLOSURE
J	A-4, B-4, C-2	BROAN	679	120V	240 VA	LED	BATHROOM EXHAUST FAN W/ LIGHT - REF MECHANICAL

NOTE: FIXTURE COUNT FOR EACH FLOORPLAN INDICATED BY SHEET LETTER DESIGNATION.

ELECTRICAL KEYNOTES

E01	REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHT.
E02	MOUNT FIXTURE HORIZONTALLY AND CENTER ABOVE VANITY MIRROR.
E03	SEAL FIXTURE TO CEILING WITH WEATHERPROOF SILICONE PER MANUFACTURERS INSTRUCTION OR BATHROOM INSTALL. PROVIDE SHOWER LENS AND TRIM FOR FIXTURE.
E04	WIRE FOR SEPARATE SWITCH INTEGRAL LIGHT AND FAN SEPERATELY.



1 2 BED DUPLEX LIGHTING PLAN
1/4" = 1'-0"

blue river ARCHITECTS
A Natives American Owned Firm

HAGN BIRDTAIL ADDITION
18511 SOUTH 525 ROAD
TAHLEQUAH, OK 74464

E101.A
2 BED DUPLEX LIGHTING PLAN

MPW
MPW ENGINEERING, LLC
119 W. 7TH STREET • SUITE 600
TULSA, OK 74119
(918) 582-4066 • FAX (918) 582-4067
OK COA #2740 • EXP 06/30/2022

BLUE RIVER PROJECT NUMBER
20210212.19
ISSUE DATE
04/27/2023
ISSUE
CONSTRUCTION DOCUMENTS - ABOVE GRADE
REVISIONS

No.	DESCRIPTION	DATE

SHEET NAME
2 BED DUPLEX LIGHTING PLAN

SHEET NUMBER
E101.A

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PANELBOARD NOTES (#):

1. TERMINATE GROUND ON ISOLATED GROUND BUS.
2. PROVIDE LOCKING DEVICE (LOCK-OFF FOR MAINTENANCE).
3. PROVIDE LOCKING DEVICE (LOCK-ON FOR CRITICAL LOAD).
4. PROVIDE GFCI BREAKER (PERSONNEL PROTECTION 5 mA).
5. PROVIDE GFCI BREAKER (EQUIPMENT PROTECTION 30 mA).
6. CONDUCTOR SIZE HAS BEEN INCREASED TO ACCOUNT FOR VOLTAGE DROP. SIZE GREATER THAN CONDUCTOR PROPORTIONALLY PER NEC.
7. ROUTE CIRCUIT THROUGH LIGHTING CONTROLS PRIOR TO LANDING ON PANEL.
8. PROVIDE SHUNT TRIP BREAKER.
9. COORDINATE PANELBOARD AIC RATING WITH UTILITY.
10. REFERENCE ONE-LINE DIAGRAM FOR WIRE SIZE/QUANTITY.

RESIDENTIAL LOAD CALCULATION

PANELBOARD VOLTAGE	=	240 V
DWELLING UNIT AREA	=	1171 SQFT
GENERAL LIGHTING/POWER (3W/SQFT)	=	3513 VA
SMALL APPLIANCE CIRCUIT (2 CIRCUITS)	=	3600 VA
WASHER (ASSUMED)	=	1500 VA
DRYER (MINIMUM)	=	5600 VA
REFRIGERATOR (ASSUMED)	=	1080 VA
VENT HOOD / MICROWAVE (ASSUMED)	=	1300 VA
DISHWASHER / DISPOSAL (ASSUMED)	=	1200 VA
ELECTRIC RANGE (ASSUMED)	=	8000 VA
ELECTRIC WATER HEATER (ACTUAL)	=	6000 VA
SUBTOTAL	=	30493 VA
FIRST 10KVA AT 100%	=	10000 VA
REMAINDER AT 40%	=	8197 VA
HEAT PUMP (100%)	=	4840 VA
FURNACE (60%)	=	11544 VA
HVAC LOAD PER NEC 220.82(C)	=	12144 VA
TOTAL FEEDER LOAD PER NEC 220.06	=	30041 VA
	=	125 A

A PANELBOARD

TYPICAL TYPE A

SERVES: 2 BED DUPLEX DWELLING

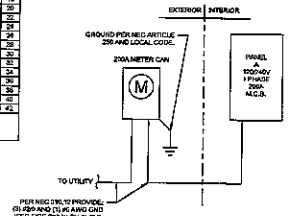
LOCATION: HALLWAY

120/240V, 1PH, 3W
200 A, M.L.O.
(E) AIC
SURFACE

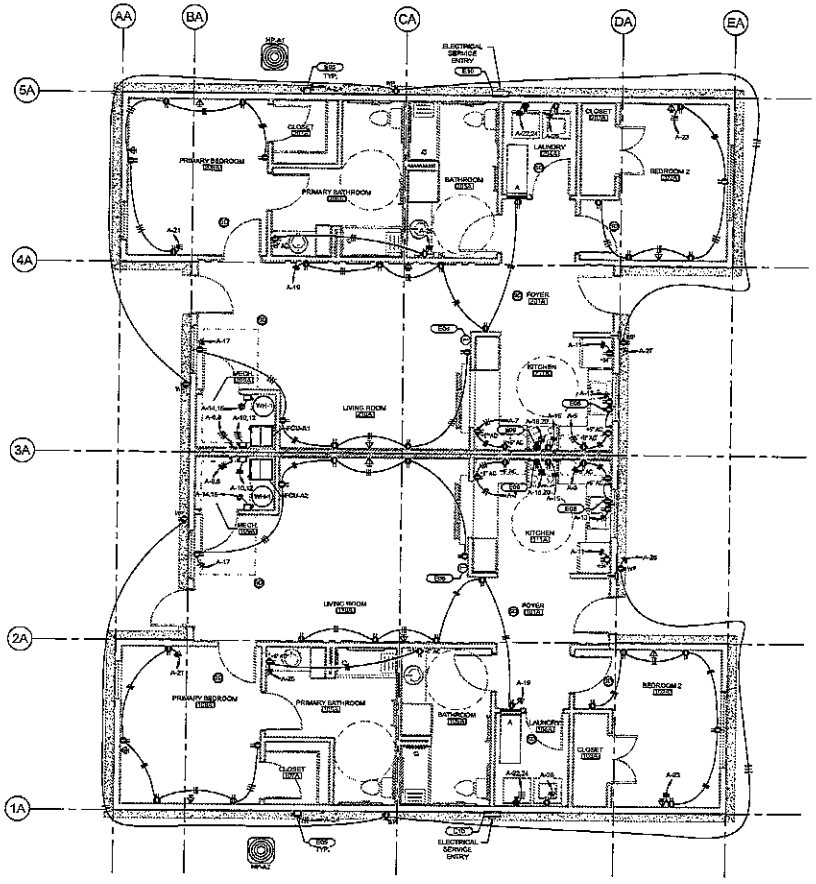
	DESCRIPTION	WIRE	BRKR	PL	A		B		PL	BRKR	WIRE	DESCRIPTION	
1	LIGHTING - LIVING AREA (4)	12	20 A	1	0.36	2.32			2	20 A	10	HPA	2
3	LIGHTING - BDRM AREA (4)	12	20 A	1			0.89	2.32	--	--	--		4
5	RECEPTS KITCHEN (8)	12	20 A	1	0.36	0.72			2	60 A	12	FCU-A	6
7	RECEPT KITCHEN COUNTER (8)	12	20 A	1			1.08	0.72	--	--	--		8
9	SPARE (8)	--	20 A	1	0.00	0.72			3	50 A	6	FCU HEAT	10
11	REFRIGERATOR (8)	12	20 A	1			1.08	0.72	--	--	--		12
13	DISHWASHER / DISPOSAL (8)	12	20 A	1	1.20	3.00			2	40 A	8	WH-1	14
15	RANGE HOOD OR MICROWAVE (8)	12	20 A	1			1.20	3.00	--	--	--		16
17	RECEPTS LIVING ROOM (8)	12	20 A	1	0.90	4.00			2	40 A	8	RANGE	18
19	RECEPTS LIVING ROOM (8)	12	20 A	1			0.90	4.00	--	--	--		20
21	RECEPTS NAR LIVING (8)	12	20 A	1	0.90	3.00			2	30 A	10	DRYER	22
23	RECEPTS UPROOM 2 (8)	12	20 A	1			0.90	3.00	--	--	--		24
25	RECEPTS HATHROOM (4)	12	20 A	1	0.90	1.00			1	20 A	12	WASHER (8)	26
27	EXTERIOR RECEPTS (4)	12	20 A	1			0.24	0.00	1	20 A	--	SPARE (8)	28
29	SMOKE DETECTORS (8)	12	20 A	1	0.06	0.00			1	20 A	--	SPARE (8)	30
31	SPARE (8)	--	20 A	1			0.00	0.00	1	20 A	--	SPARE (8)	32
33	SPARE (8)	--	20 A	1	0.00	--			1	--	--	SPACE	34
35	SPACE	--	--	1	--	--	--	--	1	--	--	SPACE	36
37	SPACE	--	--	1	--	--			1	--	--	SPACE	38
39	SPACE	--	--	1	--	--	--	--	1	--	--	SPACE	40
41	SPACE	--	--	1	--	--			1	--	--	SPACE	42
		TOTAL CONNECTED			3.37		3.35		KVA				
		TOTAL CONNECTED			196.74		212.05		AMPS			SEE RESIDENTIAL LOAD CALCS	

ELECTRICAL KEYNOTES

E03	DISCONNECT SWITCH SIZED PER MANUFACTURERS MOCP RATING (MAXIMUM OVERCURRENT PROTECTION).
E05	PROVIDE CONNECTION OF THE HARDWIRED FCU USING 18GT THERMOSTAT WIRING. COORDINATE WITH MECHANICAL CONTRACTOR FOR FINAL LOCATION PRIOR TO ROUGH-IN.
E06	GFCI TYPE RECEPTACLE FOR UNDER DISHWASHER, GARBAGE DISPOSAL, SWITCH / OR STANDARD RECEPTACLE SHALL BE INSTALLED AFTER DISHWASHER RECEPTACLE TO ENSURE SWITCH OPERATION DOES NOT CONFLICT WITH GFCI FUNCTIONALITY.
E09	RECEPTACLE FOR RANGE HOOD OR OVER THE RANGE MICROWAVE SHALL BE INSTALLED IN CABINETRY OVER RANGE. COORDINATE ROUTING OF CORD THROUGH MILLWORK IN FIELD.
E10	COORDINATE METER CAN LOCATION AND REQUIREMENTS WITH UTILITY PRIOR TO SITE WORK OR ROUGH-IN.



2 ELECTRICAL ONE-LINE
NTS



1 2 BED DUPLEX POWER PLAN
1/4" = 1'-0"

blue river ARCHITECTS
A Native American Owned Firm

HACN BIRDTAIL ADDITION
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TAHLEQUAH, OK 74464

E201.A
2 BED DUPLEX POWER PLAN

MPW
MPW ENGINEERING, LLC
119 W. 7TH STREET - SUITE 600
TULSA, OK 74119
(918) 582-4088 - FAX (918) 582-4007
OK COA # 2940 - EXP 06/30/2022

BLUE RIVER PROJECT NUMBER: 2021/0212.15
ISSUE DATE: 04/27/2023
ISSUED: CONSTRUCTION DOCUMENTS - ABOVE GRADE
SYNCHRONIZE DATES

No.	DESCRIPTION	DATE

SHEET NAME: 2 BED DUPLEX POWER PLAN

SHEET NUMBER: E201.A

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