

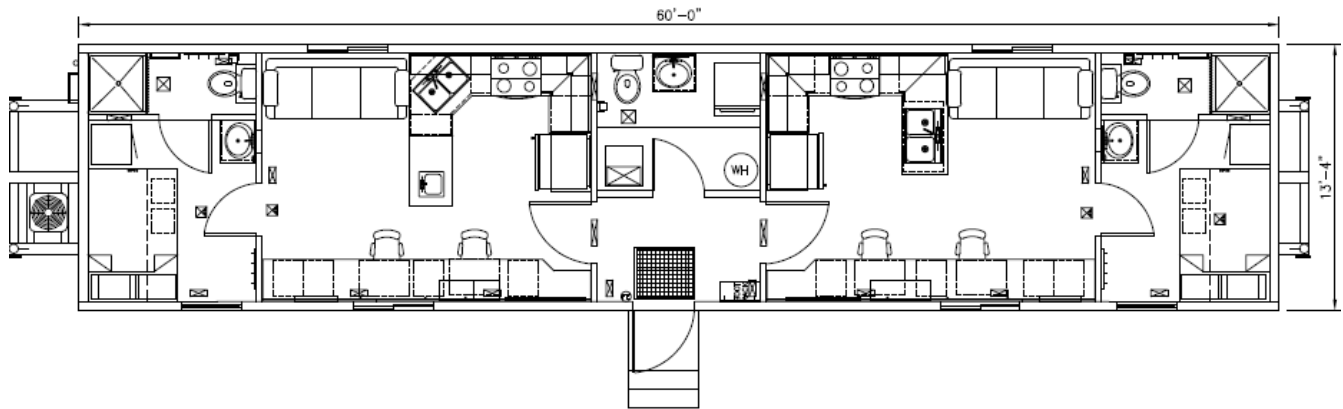
## Double End Unit

- Units arrive ready for immediate action
- First rate living conditions in the most extreme circumstances
- Keep your team comfortable and close to the jobsite



### Features

- 2 bedrooms, 2 bathrooms
- Fully furnished, flatware and bedding
- Complete kitchen with microwave & oven
- Dedicated wash room with washer and dryer
- Flat screen televisions with satellite



- Fully equipped accommodation
- Single unit package requires minimum 100 KVA
- Freight TBD by location
- Each Water and Septic unit can accommodate up to four housing units

# ATCO Structures & Logistics

BUILDING CODES/COLORADO	
1. INTERNATIONAL RESIDENTIAL CODE 2006 ed.	
2. NATIONAL ELECTRICAL CODE 2008 ed.	
3. INTERNATIONAL PLUMBING CODE 2006 ed.	
4. INTERNATIONAL MECHANICAL CODE 2006 ed.	
5. INTERNATIONAL ENERGY CONSERVATION CODE 2009	
OCCUPANCY _____	R3
OCCUPANCY LOAD _____	5
CONSTRUCTION TYPE _____	VB
FLOOR LIVE LOAD _____	50 PSF
ROOF LIVE LOAD _____	90 PSF
WIND LOAD _____	EXP.C/QS =110 MPH/32.67 PSF
SIEMIC ZONE _____	1B
GAS TYPE _____	NONE
GENERAL NOTES	
1. SITE PLAN UNAVAILABLE AT THIS TIME. BUILDING EXTERIOR WALL SEPERATION DISTANCE SHALL COMPLY WITH IBC TBL. 602	
2. STAIRS, RAMPS, ETC. BY OTHERS	
3. ON PANEL BOX USE #4 BARE COPPER WIRE FROM GROUNDING LUG ON PANEL BOX TO SOLDERLESS GROUNDING BOLT THRU FRAME. EMPTY 1/2" PVC RACEWAY. (SAME LENGTH AS ENTRANCE) FOR CUSTOMER INSTALLED GROUND WIRE.	
4. SERVICE GROUND BY OTHERS AS PER AS PER 2008 NEC ( ARTICLE 250)	
5. THE COMPLETED DATA PLATE IS ATTACHED IN THE VICINITY OF THE ELECTRICAL PANEL BOX, STATE LABEL IS AFFIXED TO THE BUILDING ON THE BOTTOM LEFT SIDE OF THE REAR WALL OF THE BUILDING	
6. PLUMBING FACILITIES MUST BE PROVIDED IN A ADJAJENT BUILDING ON THE SAME PROPERTY AS PER LOCAL BUILDING DEPARTMENT REQUIREMENTS	

## ALLY

13'-4"X60' DOUBLE ENDED WELLSITE  
PROJECT # 94336

NOTE: NO MORE THAN 5 ADULTS MAY SLEEP IN THIS BUILDING AT ANY TIME

DRAWING INDEX	
CS	COVER SHEET
AAO1	EQUIPMENT PAGE
AO1	CONSTRUCTION PAGE
AO2	RAISED FLOOR, CABINET, & COUNTERTOP DETAILS
DO1	CROSS SECTION
ELEV	ELEVATIONS
EO1	ELECTRICAL LAYOUT
EO2	ELECTRICAL LEGEND, CALCS, & PANEL SCHEDULE
MO1	HVAC LAYOUT
MO2	DOMESTIC WATER LAYOUT & SCHEMATIC
MO3	SANITARY DRAINAGE

REV	DATE	DESCRIPTION	BY
14SEP11		ISSUE FOR STATE REVIEW	GS

NOTES:

### CUSTOMER ACCEPTANCE

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SCALE: NTS

ATCO STRUCTURES & LOGISTICS (USA) INC.  
1106 NORTH TEMPLE DRIVE  
DIBOLL, TEXAS 75941  
2400 BURKBURNETT ROAD  
WICHITA FALLS, TEXAS 76306

PROJECT:

ALLY  
13'4"X60'  
DOUBLE ENDED WELLSITE

SPECIFICATION NUMBER

610-040-01

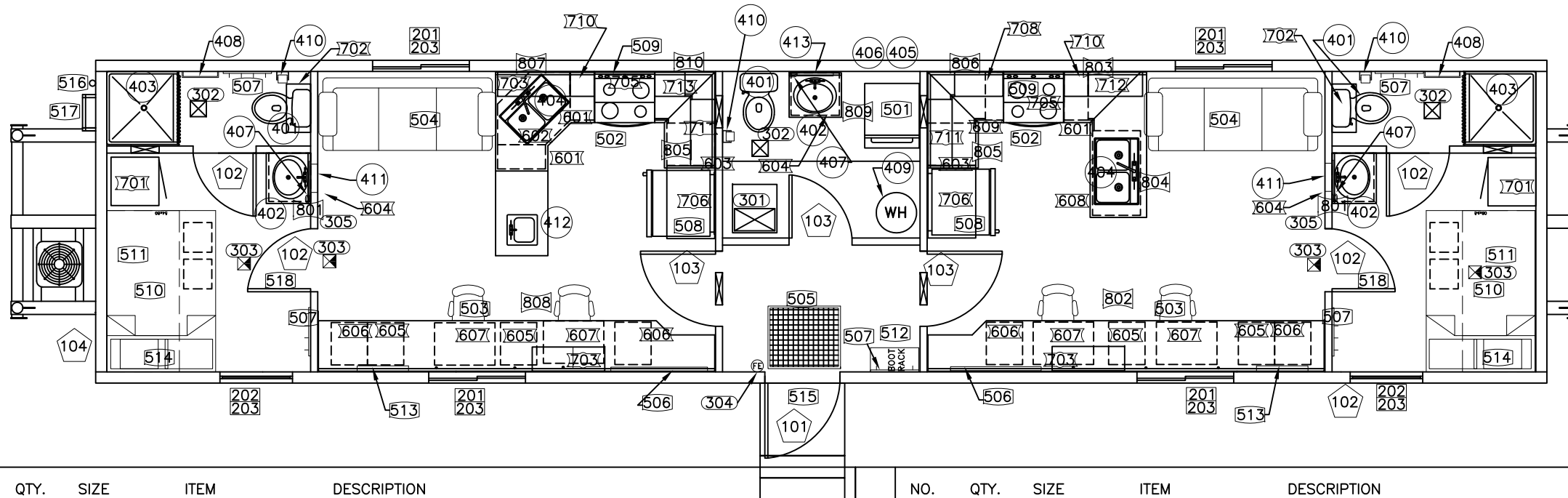
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COVER PAGE

DRAWING NO:

94336-01-CS





	NO.	QTY.	SIZE	ITEM	DESCRIPTION		NO.	QTY.	SIZE	ITEM	DESCRIPTION	
DOORS 100	101	1	36"x80"	EXTERIOR DOOR	20 GA. STEEL DOOR W/ 10"x10" VISION PANEL HARDWARE: (1) KASON HARDWARE (1) DEADBOLT, (1) CHECK CHAIN	FURNISHINGS 500	508	2	16.5 CU.FT.	REFRIGERATOR	REFRIGERATOR	
	102	4	30"x80"	INTERIOR DOOR	IMPERIAL OAK H.C. DOOR W/ BROWN JAMB HARDWARE:(2) PRIVACY KNOB, (2) PASSAGE OCCUPANCY SIGN TO READ "NO MORE THAN FIVE ADULTS MAY SLEEP IN THIS BUILDING AT ANY TIME"		509	2	-	MICROWAVE/HOOD	MICROWAVE W/ SELF VENTING HOOD	
	103	3	36"x80"	INTERIOR DOOR	IMPERIAL OAK H.C. DOOR W/ BROWN JAMB HARDWARE:(2) KEYED KNOB (1) PRIVACY KNOB		510	2	54"x80"	FULL BED	FULL SIZE W/ DRAWERS UNDER	
	104	1	-	BOX	KEY LOCK BOX		511	2	36"x80"	BED	FOLD DOWN BED	
WINDOWS 200 201	201	4	48x36	WINDOWS	VINYL INSULATED, HORIZONTAL SLIDER, W/ SCREEN; LOW E ARGON	512	1	24"	RACK	BOOT RACK		
	202	2	36x60	WINDOWS	VINYL INSULATED, EGRESS VERTICAL SLIDER, W/ SCREEN LOW E ARGON	513	2	32"	TV	LCD TV WALL MOUNTED W/ BRACKETS		
	203	6	-	BLINDS	VINYL MINI BLINDS	514	2	-	SHELF/LIGHT	PERSONAL SHELF/ LIGHT COMBO		
MECHANICAL 300	301	1	3.5 TON	HVAC	SPLIT SYSTEM, 3.5TON, 15 KW HEAT, GALVANIZED S/A DUCTWORK W/ GRILLES IN FLOOR, FILTER GRILLE @ HVAC ROOM	515	1	-	STEP - LANDING	OSHA LANDING PER CODE		
	302	3	75 CFM	FAN	EXHAUST FAN	516	1	-	POLE	STEEL TELESCOPING SATELLITE POLE		
	303	4	120V	DETECTORS	SMOKE DETECTORS	517	1	-	LADDER	STEEL LADDER		
	304	1	5#	EXTINGUISHER	FIRE EXTINGUISHER	518	2	-	SIGN	OCCUPANCY SIGN TO READ "NO MORE THAN FIVE ADULTS MAY SLEEP IN THIS BUILDING AT ANY TIME"		
	305	2	-	DETECTOR	CO DETECTOR							
PLUMBING 400	401	3	-	WATER CLOSET	STANDARD WATER CLOSET	BASE CABINETS 600	601	3	-	B12	BASE CABINET	
	402	3	-	LAVATORY	COUNTER MOUNTED LAVATORY		602	1	-	SBDC36	CORNER SINK BASE	
	403	2	36"	SHOWER	FIBERGLASS SHOWER W/ CURTAIN AND HOOKS		603	2	-	B21	BASE CABINET	
	404	2	DBL.	SINK	DOUBLE COMPARTMENT STAINLESS STEEL SINK		604	3	-	VSB24	VANITY CABINET	
	405	1	-	VENT	DRYER VENT		605	4	-	VFDB18	VANITY FILE DRAWER BASE CABINET	
	406	1	-	OUTLET BOX	WASHER OUTLET BOX W/ VALVES		606	4	-	VDB18-4	VANITY FOUR DRAWER BASE CABINET	
	407	3	-	DISH	SOAP DISH		607	4	-	KDT30	KNEESPACE DRAWER	
	408	2	-	BAR	TOWEL BAR		608	1	-	SB42	SINK BASE CABINET	
	409	1	40 GAL.	WATER HEATER	ELECTRIC WATER HEATER		609	1	-	B09	BASE CABINET	
	410	3	-	TP HOLDER	TOILET PAPER HOLDER		WALL CABINETS 700	701	2	-	U24	UTILITY CABINET
	411	2	-	CABINET	RECESSED MEDICINE CABINET W/ MIRROR			702	2	-	W2424	WALL CABINET
412	1	-	SINK	S.S.TUB SINK W/ DRAIN BOARD	703	3		-	W3630	WALL CABINET		
413	1	18"x36"	MIRROR	FRAMELESS MIRROR	705	2		-	W301815	WALL CABINET		
FURNISHINGS 500	501	1	-	WASHER/DRYER	AUTOMATIC WASHER/DRYER COMBO	706	2	-	RW3612	REFRIGERATOR WALL CABINET		
	502	2	30"	RANGE	ELECTRIC RANGE	708	1	-	W2430	WALL CABINET		
	503	4	-	CHAIR	SWIVEL/ TILT CHAIR W/ ARMS	710	1	-	W1230	WALL CABINET		
	504	2	-	COUCH	3-PERSON NAGAHYDE COUCH	711	2	-	W3330	WALL CABINET		
	505	1	36"x31"	ENTRY PAN	ENTRY PAN W/ DRAIN AND RUBBER MAT	712	1	-	W2730	WALL CABINET		
	506	2	4'x4'	BOARD	MARKER BOARD	713	1	-	W1530	WALL CABINET		
	507	5	24"	HOOKS	4-HOOK COAT HOOK BOARD	COUNTERTOPS 800	801	2	2'-1"	COUNTERTOP	BATHROOM COUNTERTOP	
							802	1	16'-4 5/8"	COUNTERTOP	OFFICE COUNTERTOP	
							803	1	3'-2"	COUNTERTOP	KITCHEN COUNTERTOP	
							804	1	6'-0"	COUNTERTOP	KITCHEN COUNTERTOP	

NOTE: CAM LOCK & THUMB LATCH TO ALL CABINETS

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NOTES:

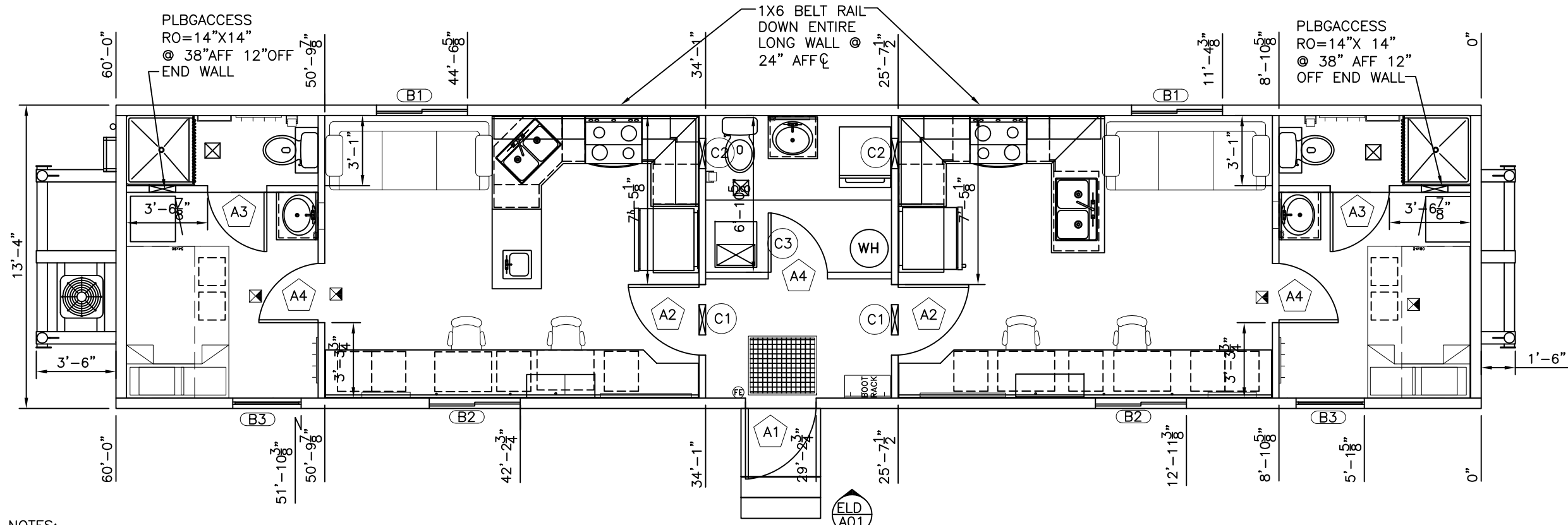
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 1106 NORTH TEMPLE DRIVE  
 DIBOLL, TEXAS 75941  
 2400 BURKBURNETT ROAD  
 WICHITA FALLS, TEXAS 76306  
 PROJECT:  
 ALLY  
 13'4"x60'  
 DOUBLE ENDED WELLSITE

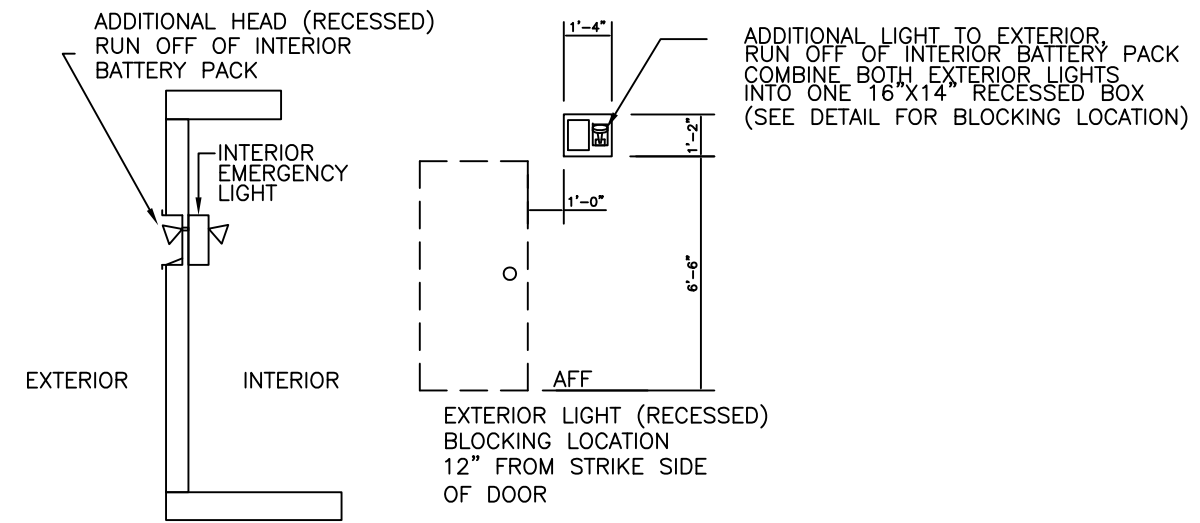
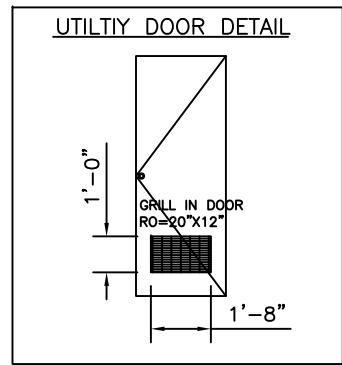
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 EQUIPMENT PAGE  
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 94336-01-AA01





NOTES:  
 1. ALL MEASUREMENTS ARE FROM RAW FRAMING MEMBER TO RAW FRAMING MEMBER, EXCEPT WHEN FINISHED I.D. IS CALLED OUT.  
 2. ALL EXTERIOR WALLS ARE DRAWN AT 5-1/2".  
 3. ALL INTERIOR WALLS ARE DRAWN AT 3-1/2".  
 4. ALL DOOR JAMBS ARE 3" AWAY FROM WALL UNLESS OTHERWISE NOTED.

RO SCHEDULES	DOORS	NO. QTY. RO SILL HEIGHT			
		A	A1	1	37-1/4"X81-1/4"
	A2	2	37-1/4"X81"	N/A	
	A3	2	31-1/4"X89"	7-1/4"	
	A4	3	31-1/4"X81"	N/A	
B	WINDOWS	NO. QTY. RO SILL HEIGHT			
		B1	2	48"X36"	42"
		B2	2	48"X36" (OFFICE)	37"
		B3	2	36"X60"	20"
C	MECH	NO. QTY. RO SILL HEIGHT			
		C1	2	16"X4"	84-1/2"
		C2	2	16"X4"	85"
		C3	1	20"X12"	IN DOOR



ELD RECESSED EXTERIOR LIGHT DETAIL A01 SCALE AS NOTED

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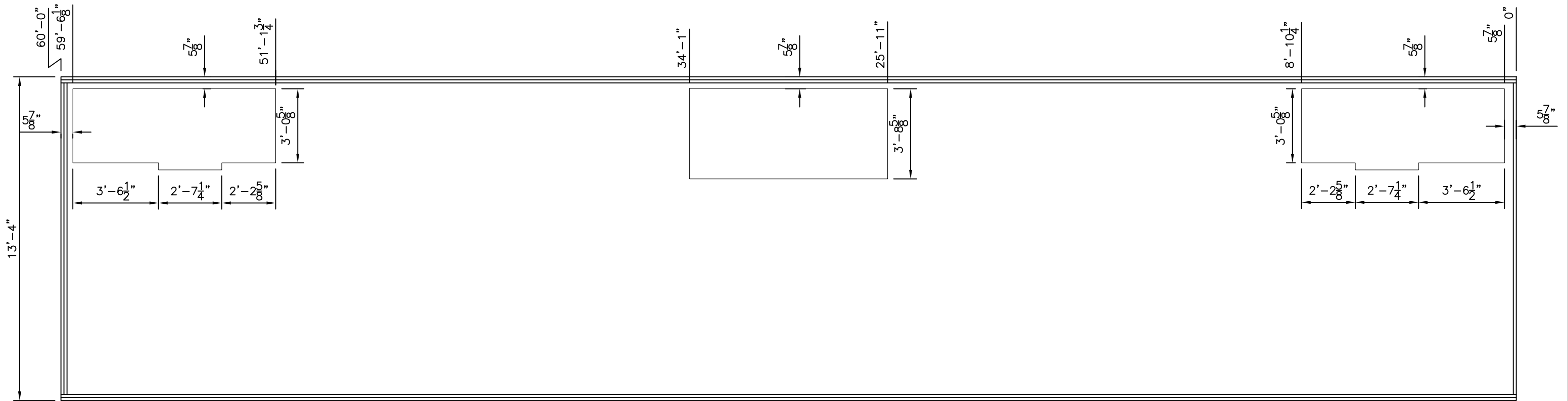
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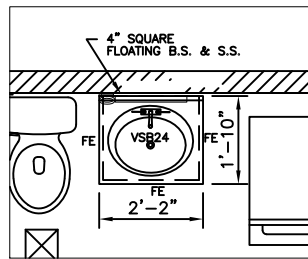
ATCO STRUCTURES & LOGISTICS (USA) INC.  
 1106 NORTH TEMPLE DRIVE  
 DIBOLL, TEXAS 75941  
 2400 BURKBURNETT ROAD  
 WICHITA FALLS, TEXAS 76306  
 PROJECT:  
 ALLY  
 13'4"X60'  
 DOUBLE ENDED WELLSITE

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 DRAWING TITLE:  
 CONSTRUCTION PAGE  
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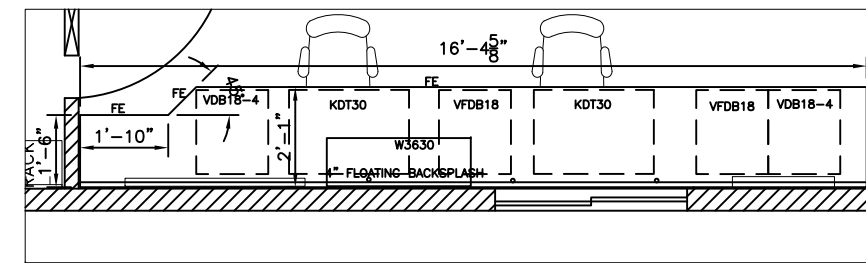
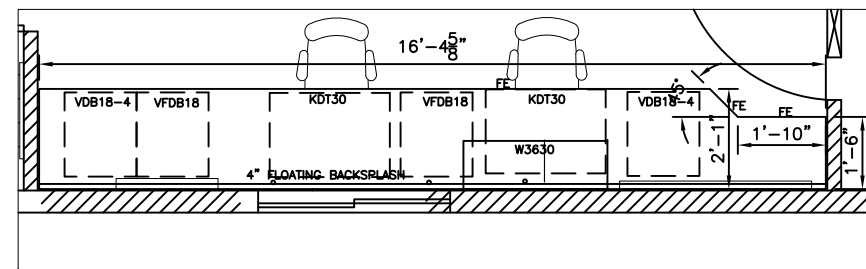




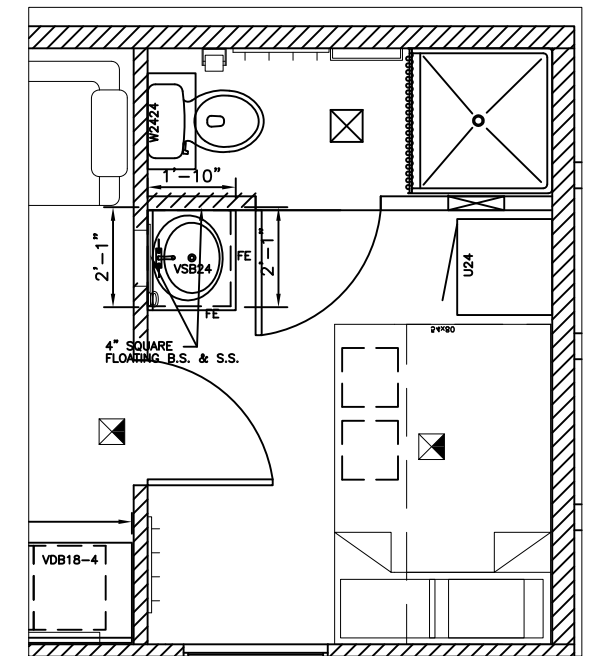
RAISED FLOOR DETAIL



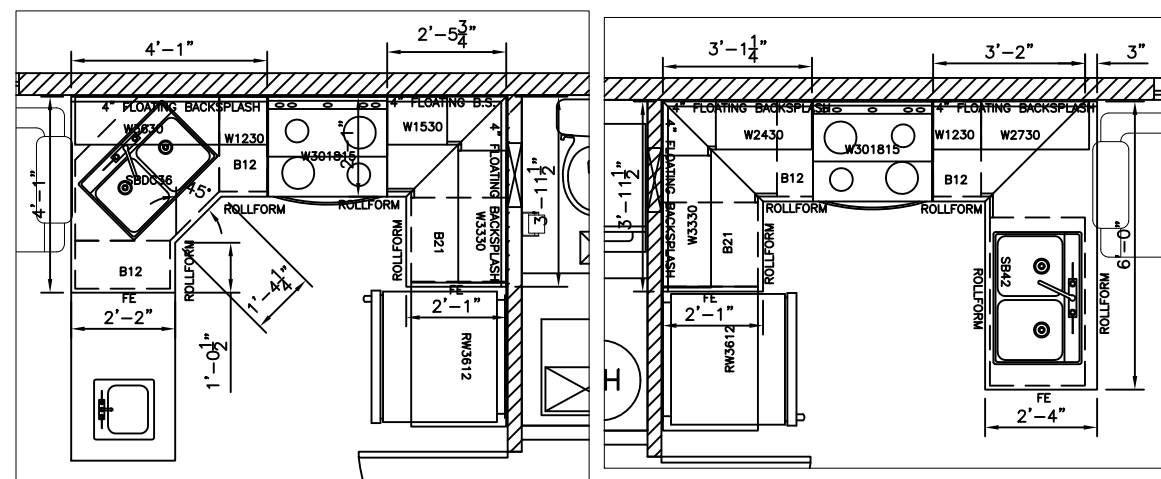
UTILITY ROOM



OFFICES



BEDROOMS/BATHS



KITCHENS

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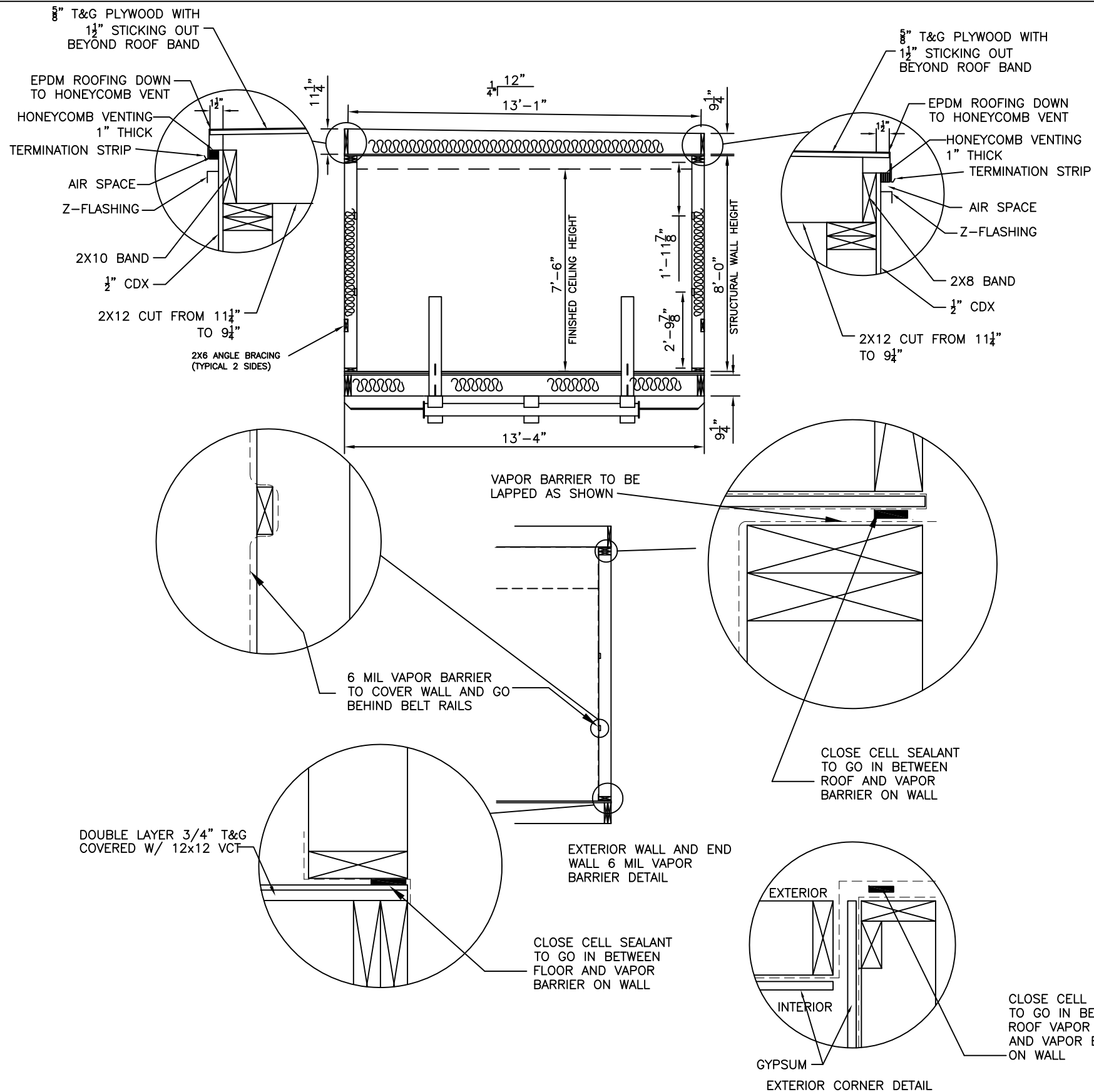
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 PROJECT:  
 ALLY  
 13'4"X60'  
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SPECIFICATION NUMBER  
 610-040-01  
 DRAWING TITLE:  
 RAISED FLOOR DETAILS  
 & CABINET/COUNTERTOP  
 DETAILS  
 DRAWING NO:  
 94336-01-A02





FRAME	
Frame:	12", 26#, 3-RUNNER NEW STYLE OUTRIGGER SKID W/ 1'-6" EXTENTION & 3'-6" EXTENTION TO OTHER END, OSHA LANDING, STEEL TUBULAR LADDER & STEEL TELESCOPING SATELLITE POLE, FALL PROTECTION BRACKETS & CABLE ;OVERSIZED CORD BRACKETS
FLOORS	
Floor Joist:	2X10 #2 SYP @ 16" O.C., DOUBLE RIM JOIST
Insulation:	R-38 KRAFT-FACED
Subfloor:	DOUBLE LAYER 3/4" T&G GLUED AND SCREWED TO FLOOR JOIST
Undersheathing:	30-GAUGE METAL BELLY PAN OVER 3/8" OSB
Floor Covering:	1/8" VINYL COMPOSITE TILE THROUGHOUT
Raised Floor:	2X8 @ 16" O.C. TO RESTROOMS
EXTERIOR WALLS	
Wall Framing:	2X6 #2 SYP @ 16" O.C.
Insulation:	R-21 KRAFT FACED
Ext. Sheathing:	1/2" CDX
Top Plate:	DOUBLE
Bottom Plate:	SINGLE
Interior Covering:	3/8" VINYL COVERED GYPSUM
Belt Rails:	1x3 BELT RAILS TO INTERIOR OF EXTERIOR WALLS
Vapor Barrier:	6-MIL POLY VAPOR BARRIER TO INTERIOR OF EXTERIOR WALLS
Base:	4" VINYL COVE BASE
Building Wrap:	15# FELT UNDER SIDING
Ext. Siding:	26 GA. COMMODITY PANITED LOW RIB SIDING W/ TRIM STEEL ANGLE IRON CORNERS TO FRONT OF UNIT
INTERIOR WALLS	
Wall Framing:	2X4 #2 SYP @ 16" O.C.
Insulation:	R-11 UN-FACED
Top Plate:	-
Bottom Plate:	-
Interior:	3/8" VINYL COVERED GYPSUM
FRP:	ABOVE SHOWER
Base:	4" VINYL COVE BASE
ROOFS	
Roof Framing:	2X12 #2 SYP TAPER TO 2X10 @ 16" O.C.
Insulation:	R-38 UN-FACED CAVITY FILLED
Ceiling:	2X4 T-GRID SUSPENDED CEILING, CELOTEX FIBERGLASS TILES TO RESTROOM
Roof Skinning:	.045 EPDM W/ TERMINATION STRIP TO PERIMETER
Roof Sheathing:	5/8" T&G PLYWOOD SCREWED, GLUED, AND SANDED
Rafter Finish:	5/8" TYPE "X" GYPSUM TO UNDERSIDE OF RAFTERS
Vapor Barrier:	6 MIL POLY VAPOR BARRIER
	ROOF VENTING PER DETAIL

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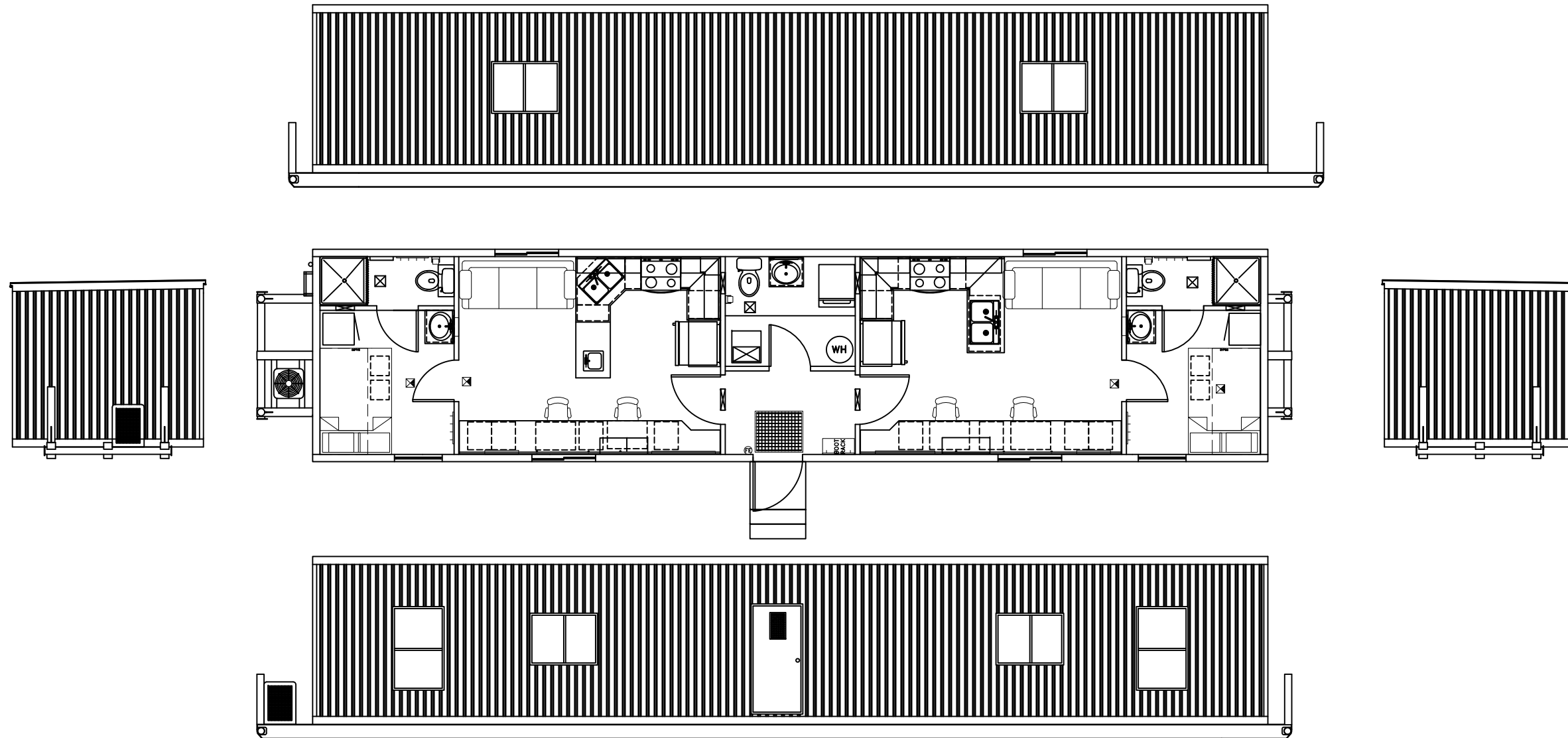
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ALLY  
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611-046-01

DRAWING TITLE:  
-  
CROSS SECTION  
-

DRAWING NO:  
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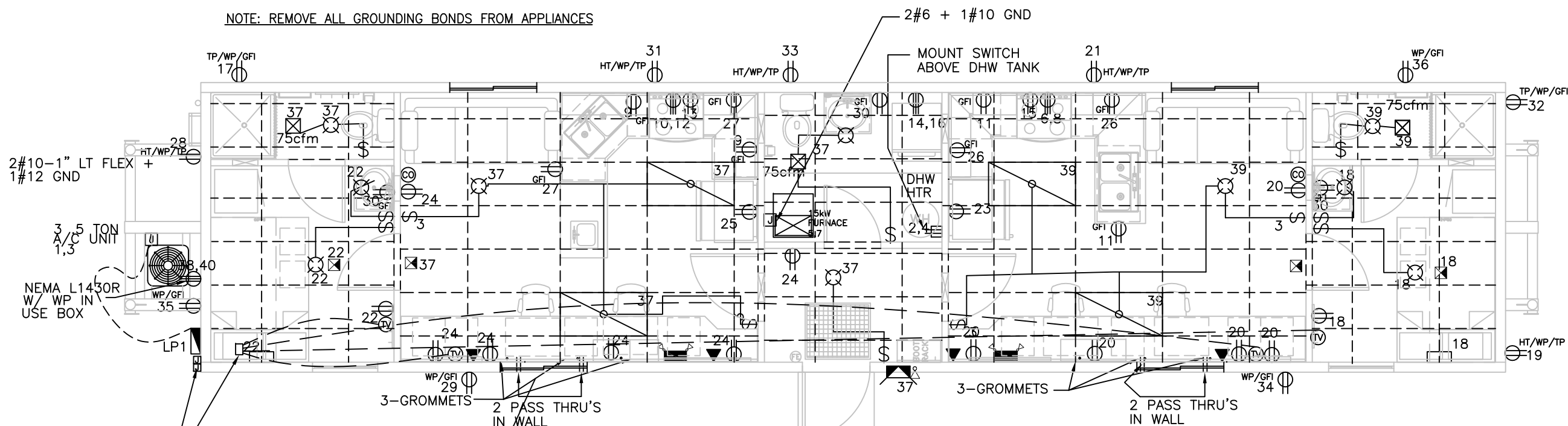
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ELEVATIONS  
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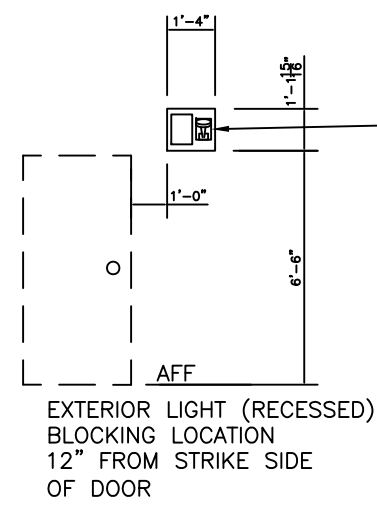
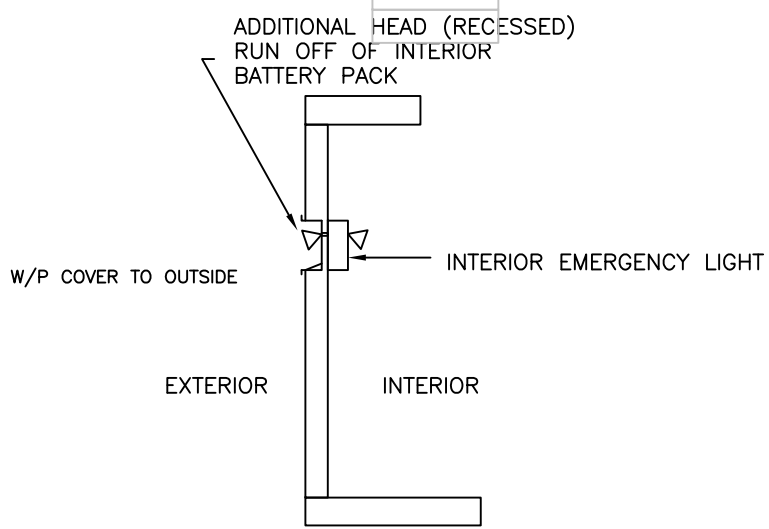
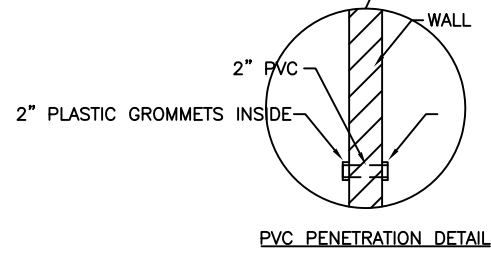
94336-01-ELEV



NOTE: REMOVE ALL GROUNDING BONDS FROM APPLIANCES



DIRECTV MULTISWITCH  
2 LINES TO EXTERIOR OF BUILDING  
2 J-BOXES FOR TV @ 88"



ADDITIONAL LIGHT TO EXTERIOR,  
RUN OFF OF INTERIOR BATTERY PACK  
COMBINE BOTH EXTERIOR LIGHTS  
INTO ONE 16"x14" RECESSED BOX  
(SEE DETAIL FOR BLOCKING LOCATION)

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 -  
 ELECTRICAL LAYOUT  
 -  
 DRAWING NO:  
 94336-01-E01





SYMBOL LEGEND & LOADS						
SYMBOL	DESCRIPTION	#	LOAD	AMPS	LUMENS	EFFICACY LUMENS/WATT
	2' x 4' FLUORESCENT STRIP C/W 4@34W-T8 ES LAMPS - ELECTRONIC BALLAST	4	70W	0.58A	2900	85.29
	EXT. WP WALL LIGHT C/W 70 HPS LAMP RECESSED-PHOTOCELL CONTROLLED	1	84W	0.70A	N.A.	N.A.
	CEILING MTD. INCANDESCENT GLOBE C/W 60W A-19 INCANDESCENT LAMP	10	60W	0.50A	N.A.	N.A.
	EMERGENCY BATTERY C/W 2 HEADS AND 1 HEAD TO THE EXTERIOR	2	36W	0.3A	N.A.	N.A.
	PERSONAL SHELF/LIGHT COMBO	2	240W	2.0A	N.A.	N.A.
	CO DETECTORS	2	-	-	N.A.	N.A.
	120 V SMOKE DETECTORS W/ BATTERY BACKUP	4	-	-	-	-
	75cfm EXHAUST FAN/LIGHT COMBO	3	99W	0.83A	N.A.	N.A.
	POWER PANEL - NEMA3R	1	-	-	-	-
	15A/125V SINGLE POLE SWITCH	8	-	-	-	-
	15A/125V 3-WAY SWITCH	4	-	-	-	-
	20A/125V DUPLEX RECEPTACLE	17	180W	1.5A	-	-
	20A/125V CLASS 'A' GFCI RECEPTACLE	9	180W	1.5A	-	-
	20A/125V CLASS 'B' GFCI RECEPTACLE-W.P.	11	180W	1.5A	-	-
	NEMA L1430R W/ WP BOX	1	180W	1.5A	-	-
	30(50)/125/250V NEMA 14-30R(50R) FOR RANGE OR DRYER OUTLET	3	-	-	-	-
	TV OUTLET C/W COAX TO SPLITTER	4	N.A.	N.A.	-	-
	TELE/DATA OUTLET C/W 1/2" FLEX STUB UP	4	-	-	-	-
	JUNCTION BOX SIZED TO NEC FOR CONDUCTOR FILL	-	-	-	-	-
N.A.	HVAC UNIT	1	15.0kW	62.5A	-	-
N.A.	WATER HEATER	1	4.5KW	18.75A	-	-

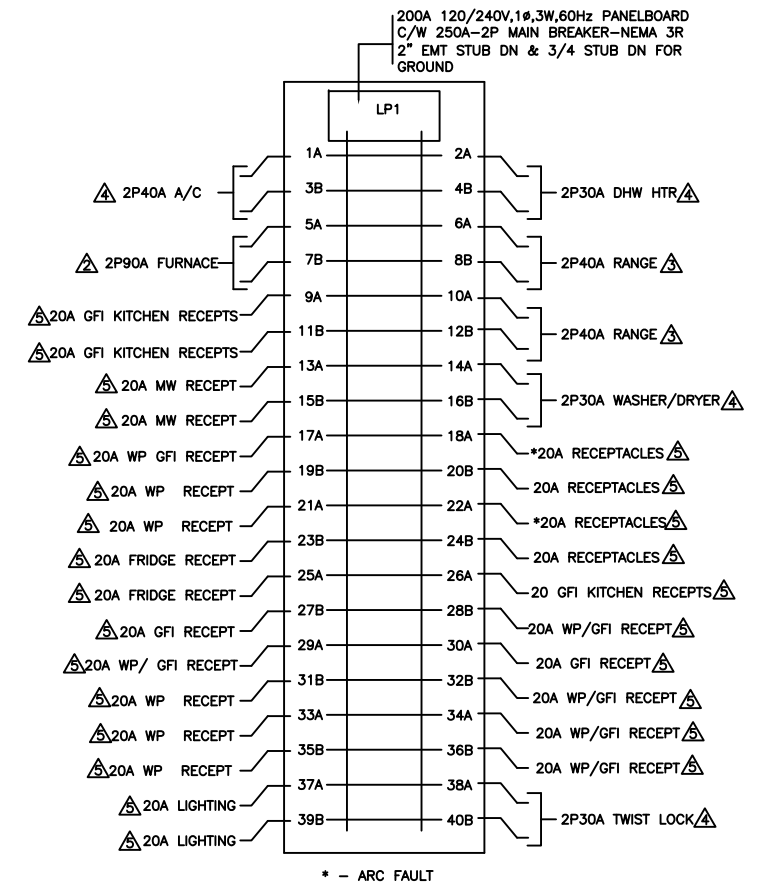
STANDARD OUTLET MOUNTING HEIGHTS height in inches to bottom of box unless otherwise noted	
ELECTRICAL BOX TYPE	MOUNTING HEIGHT
RECEPTACLE	16
SWITCH	44
MICROWAVE RECEPTACLE	75
TV (top of box)	60
ANTENNA BOX	88
COUNTERTOP RECEPTACLE	44
LOWER BUNK LIGHT	40
UPPER BUNK LIGHT	83
BUNK LIGHT DIMMER	38
STOVE	16
PHONE	44
TELE/DATA	16
WATER HEATER	48
EXTERIOR LIGHT	78
EXTERIOR RECEPTACLE	16
WASHER	36
DRYER	36
THERMOSTAT(to centreline)	60
RADIO IN CABINET	58

**WIRING LEGEND**

- 4 AWG THHN WIRE
- 6 AWG THHN WIRE
- 8 AWG THHN WIRE
- 10 AWG THHN WIRE
- 12 AWG THHN WIRE

**NOTES:**

1. WIRING METHOD TO BE MC CABLE, COPPER, MINIMUM #12AWG.
2. ALL ELECTRICAL CONNECTIONS TO BE MOUNTED 14" AFF UNLESS OTHERWISE SPECIFIED. ALL HEIGHTS ARE MEASURED TO THE BOTTOM OF THE BOX.
3. TELE/DATA OUTLETS ARE TO HAVE A 1/2" FLEXIBLE CONDUIT STUBBED UP TO UNDERSIDE OF FLOOR UNLESS NOTED.
4. ALL CONDUIT TO CONTAIN AN INSULATED GROUND CONDUCTOR SIZED AS REQUIRED BY 2008 N.E.C., MINIMUM #12 AWG.
5. ELECTRICAL INSTALLATION SHALL BE IN COMPLIANCE WITH 2008 N.E.C..
6. ALL WIRING IN RETURN AIR PLENUMS SHALL MEET RATING REQUIREMENTS OF 2008 N.E.C..
7. MOUNTING HEIGHTS FOR ALL WALL MOUNTED DEVICES SHALL BE FROM FINISHED FLOOR TO BOTTOM OF DEVICE BOX.
8. ALL 125 VOLT, 15 & 20 AMP RECEPTACLES SHALL BE LISTED TAMPER-RESISTANT RECEPTACLES(2008-NEC, ART.406-11)
9. ALL CIRCUITS SHALL BE PROTECTED BY A LISTED ARC-FAULT CIRCUIT INTERRUPTER (COMB. TYPE)



CALCULATED LOAD	
LP-1	
LIGHTING LOAD = 800sqft x 3.0VA	2 400 VA
RECEPTACLE LOAD =	6 000 VA
HEATING LOAD 1@15kW =	15 000 VA
DHW HEATER LOAD =	4 500 VA
DRYER LOAD =	4 000 VA
RANGE LOAD =	15 360 VA
COMPLEX TOTAL LOAD =	47 260 VA
MINIMUM SERVICE SIZE	
47 260 VA/240V =	196.91A

REV	DATE	DESCRIPTION	BY
0	14SEP11	ISSUE FOR STATE REVIEW	GS

NOTES:

**CUSTOMER ACCEPTANCE**

- ACCEPTANCE AS DRAWN

- ACCEPTANCE EXCEPT AS NOTED

BY: \_\_\_\_\_

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

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DRAWN BY: GS

CHECKED BY: CR

DATE: 18AUG11

SCALE: NTS

ATCO STRUCTURES & LOGISTICS (USA) INC.  
1106 NORTH TEMPLE DRIVE  
DIBOLL, TEXAS 75941  
2400 BURKBURNETT ROAD  
WICHITA FALLS, TEXAS 76306

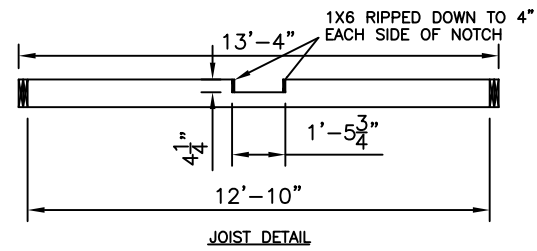
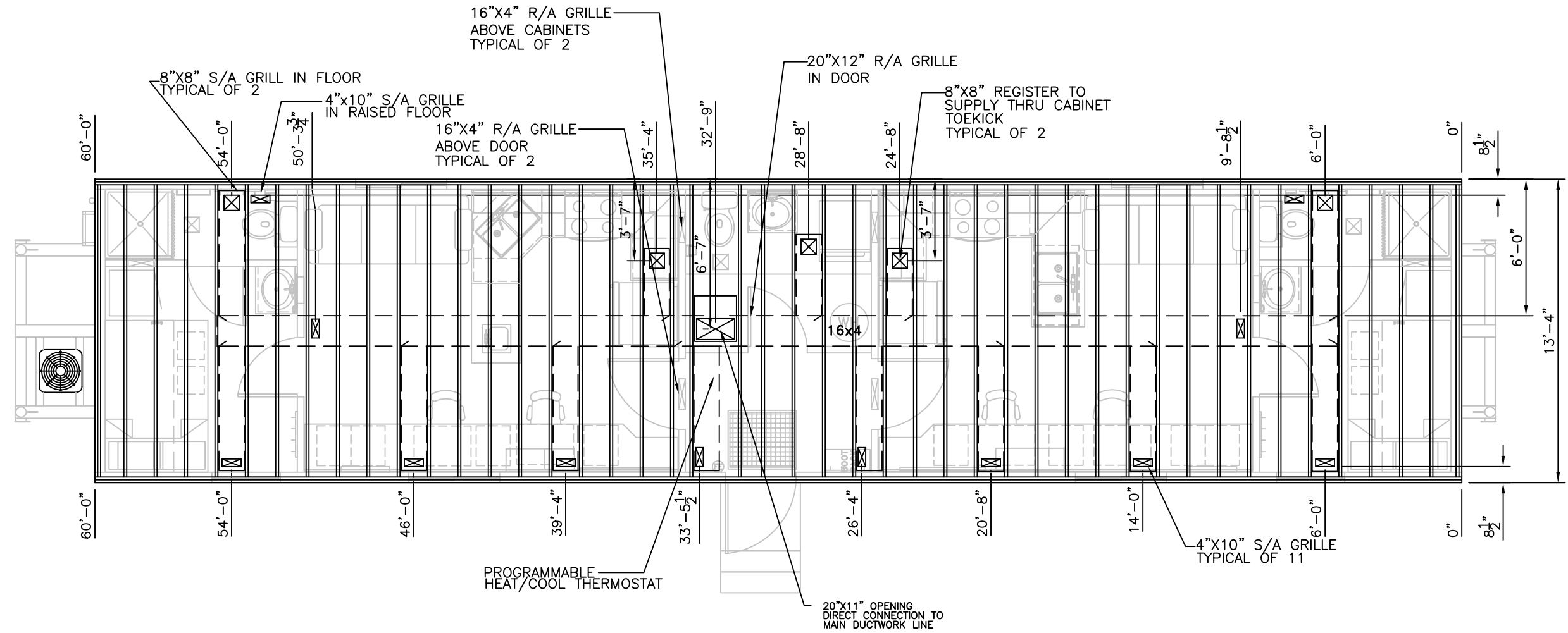
PROJECT:  
ALLY  
13'4"X60'  
DOUBLE ENDED WELLSITE

SPECIFICATION NUMBER  
610-040-01

DRAWING TITLE:  
ELECTRICAL LEGEND, CALCULATIONS,  
& PANEL SCHEDULE

DRAWING NO:  
94336-01-E02





REV	DATE	DESCRIPTION	BY
14SEP11		ISSUE FOR STATE REVIEW	GS

NOTES:

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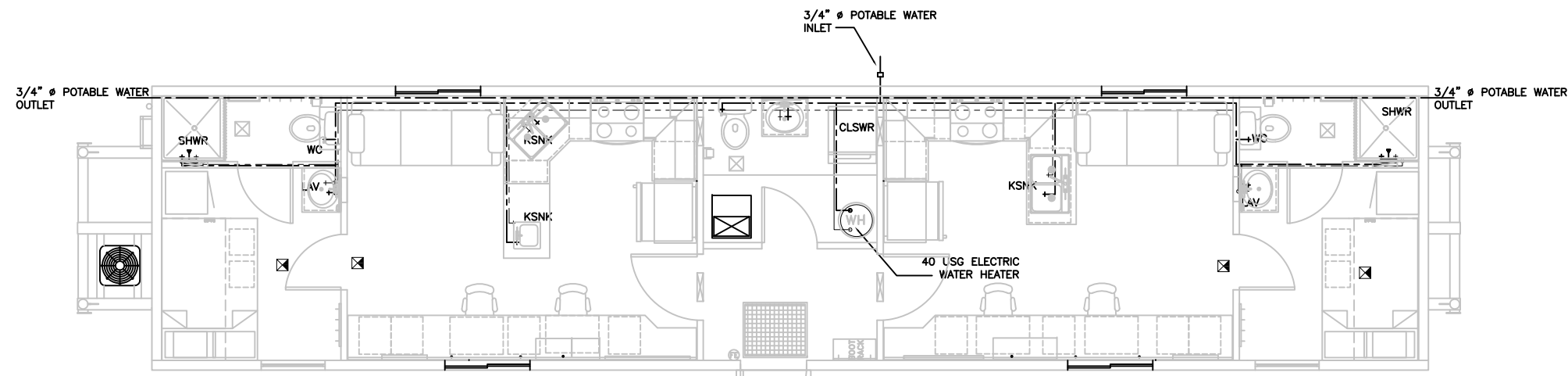
PROJECT:  
ALLY  
13'4"X60"  
DOUBLE ENDED WELLSITE

SPECIFICATION NUMBER  
610-040-01

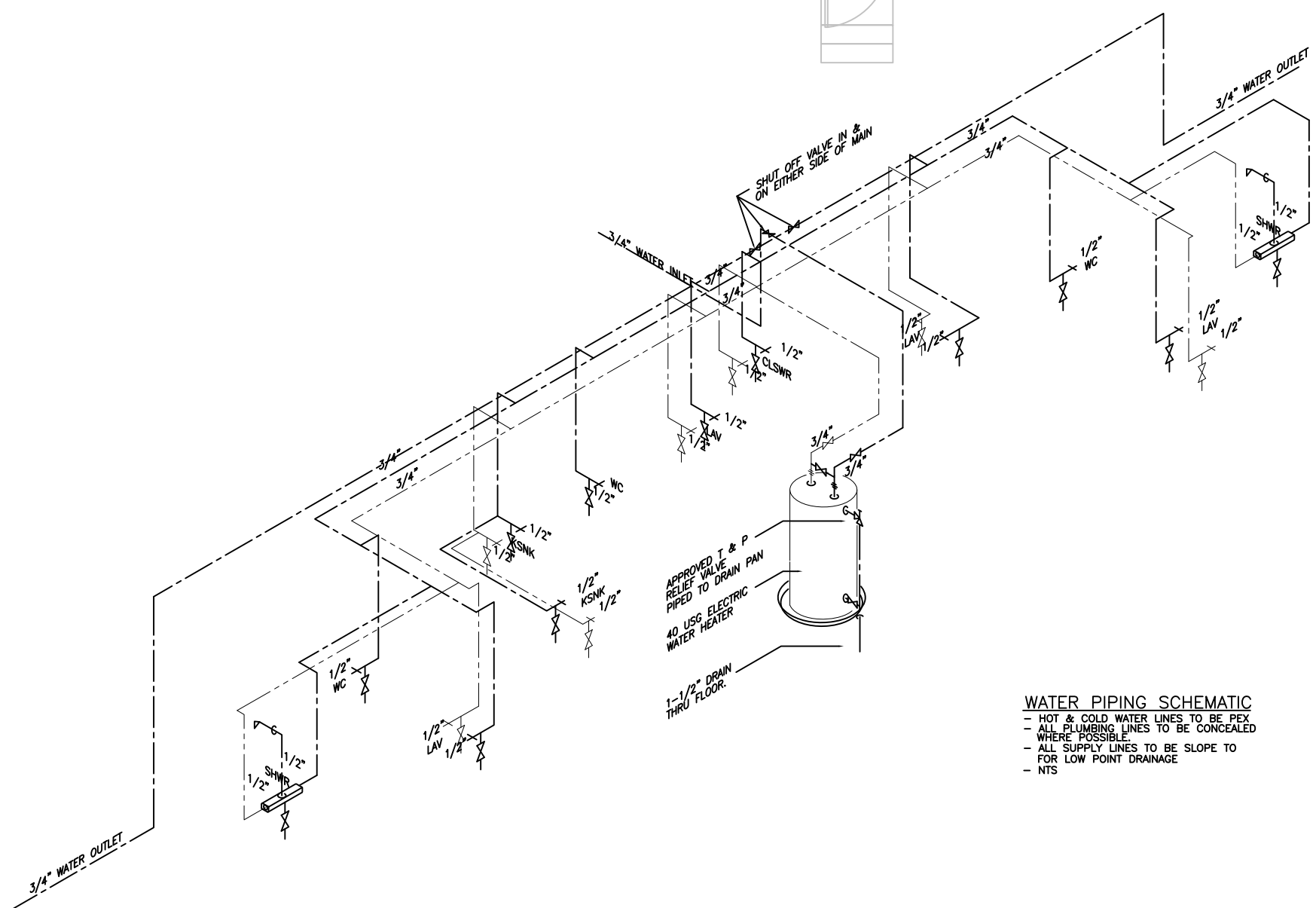
DRAWING TITLE:  
MECHANICAL LAYOUT

DRAWING NO:  
94336-01-M01





- LEGEND**
- DOMESTIC COLD WATER
  - DOMESTIC HOT WATER
  - DWV PIPING
  - DWV PIPING UNDERFLOOR
  - DWV VENT PIPING.
- WC - WATER CLOSET  
 LAV - LAVATORY  
 SHWR - SHOWER  
 CLSWR - CLOTHES WASHER  
 KSK - STAINLESS STEEL SINK



**WATER PIPING SCHEMATIC**  
 - HOT & COLD WATER LINES TO BE PEX  
 - ALL PLUMBING LINES TO BE CONCEALED WHERE POSSIBLE  
 - ALL SUPPLY LINES TO BE SLOPE TO FOR LOW POINT DRAINAGE  
 - NTS

REV	DATE	DESCRIPTION	BY
0	14SEP11	ISSUE FOR STATE REVIEW	GS

NOTES:

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

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 SCALE: NTS

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 DIBOLL, TEXAS 75941  
 2400 BURKBURNETT ROAD  
 WICHITA FALLS, TEXAS 76306

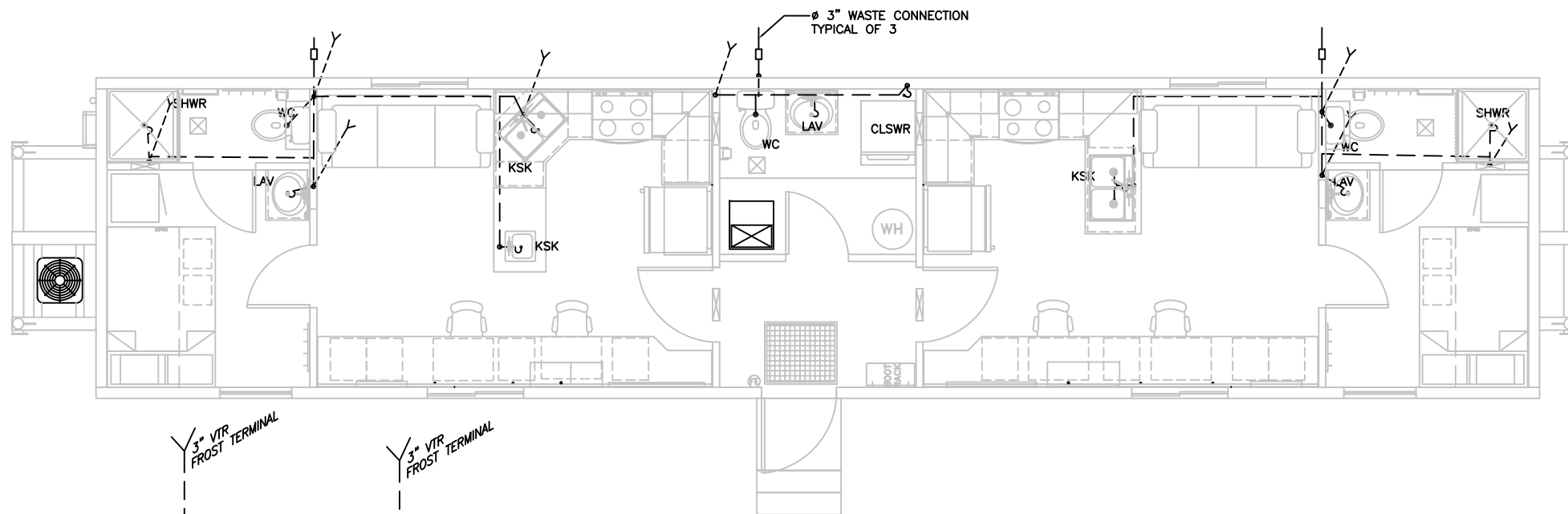
PROJECT:  
 ALLY  
 13'4"X60'  
 DOUBLE ENDED WELLSITE

SPECIFICATION NUMBER  
 610-040-01

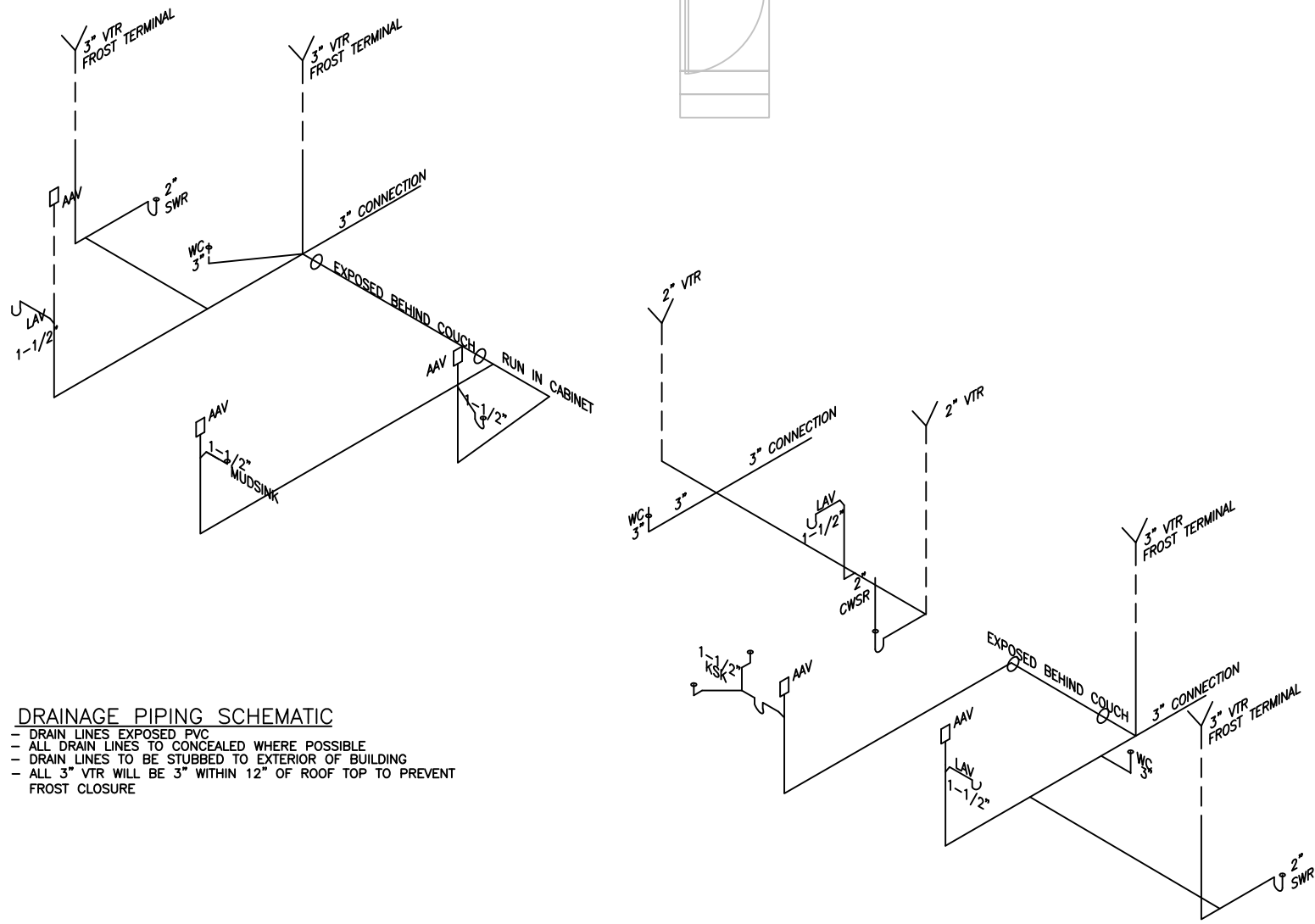
DRAWING TITLE:  
 DOMESTIC WATER LAYOUT  
 & SCHEMATICS

DRAWING NO:  
 94336-01-M02





- LEGEND**
- DOMESTIC COLD WATER
  - DOMESTIC HOT WATER
  - DWV PIPING
  - DWV PIPING UNDERFLOOR
  - DWV VENT PIPING
  - WC — WATER CLOSET
  - LAV — LAVATORY
  - CLSWR — CLOTHES WASHER
  - KSK — KITCHEN SINK
  - SHWR — SHOWER



**DRAINAGE PIPING SCHEMATIC**

- DRAIN LINES EXPOSED PVC
- ALL DRAIN LINES TO CONCEALED WHERE POSSIBLE
- DRAIN LINES TO BE STUBBED TO EXTERIOR OF BUILDING
- ALL 3" VTR WILL BE 3" WITHIN 12" OF ROOF TOP TO PREVENT FROST CLOSURE

REV	DATE	DESCRIPTION	BY
0	14SEP11	ISSUE FOR STATE REVIEW	GS

NOTES:

**CUSTOMER ACCEPTANCE**

- ACCEPTANCE AS DRAWN  
 - ACCEPTANCE EXCEPT AS NOTED

BY: \_\_\_\_\_  
 DATE: \_\_\_\_\_

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 CHECKED BY: CR  
 DATE: 18AUG11  
 SCALE: NTS

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 1106 NORTH TEMPLE DRIVE  
 DIBOLL, TEXAS 75941  
 2400 BURKBURNETT ROAD  
 WICHITA FALLS, TEXAS 76306

PROJECT:  
 ALLY  
 13'4"X60'  
 DOUBLE ENDED WELLSITE

SPECIFICATION NUMBER  
 610-040-01

DRAWING TITLE:  
 SANITARY DRAINAGE LAYOUT  
 & SCHEMATICS

DRAWING NO:  
 94336-01-M03





# REScheck Software Version 4.4.1 Compliance Certificate

Project Title: 94336 13'-4"x60' Ally Double Ended Wellsite

Energy Code: **2009 IECC**  
 Location: **Crested Butte, Colorado**  
 Construction Type: **Single Family**  
 Glazing Area Percentage: **7%**  
 Heating Degree Days: **11292**  
 Climate Zone: **7**

Construction Site:

Owner/Agent:

Designer/Contractor:

Lupes Sandoval  
 Atco Structures & Logistics  
 1106 North Temple Drive  
 2400 Burkburnett Road  
 Diboll/Wichita Falls, TX 75941/76306

**Compliance: Passes using UA trade-off**

Compliance: **5.6% Better Than Code** Maximum UA: **142** Your UA: **134**

The % Better or Worse Than Code index reflects how close to compliance the house is based on code trade-off rules. It DOES NOT provide an estimate of energy use or cost relative to a minimum-code home.

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Glazing or Door U-Factor	UA
Ceiling 1: Cathedral Ceiling (no attic)	800	38.0	0.0		22
Floor 1: All-Wood Joist/Truss:Over Unconditioned Space	800	38.0	0.0		21
Wall 1: Wood Frame, 16" o.c.	1173	21.0	0.0		61
Window 1: Vinyl Frame:Double Pane with Low-E	78			0.290	23
Door 1: Solid	20			0.350	7

*Compliance Statement:* The proposed building design described here is consistent with the building plans, specifications, and other calculations submitted with the permit application. The proposed building has been designed to meet the 2009 IECC requirements in REScheck Version 4.4.1 and to comply with the mandatory requirements listed in the REScheck Inspection Checklist.

Drafter - Lupes Sandoval  
 Name - Title

Lupes Sandoval  
 Signature

9-14-11  
 Date



# REScheck Software Version 4.4.1 Inspection Checklist

## Ceilings:

- Ceiling 1: Cathedral Ceiling (no attic), R-38.0 cavity insulation

Comments: \_\_\_\_\_

## Above-Grade Walls:

- Wall 1: Wood Frame, 16" o.c., R-21.0 cavity insulation

Comments: \_\_\_\_\_

## Windows:

- Window 1: Vinyl Frame:Double Pane with Low-E, U-factor: 0.290

For windows without labeled U-factors, describe features:

#Panes \_\_\_\_\_ Frame Type \_\_\_\_\_ Thermal Break? \_\_\_\_\_ Yes \_\_\_\_\_ No

Comments: \_\_\_\_\_

## Doors:

- Door 1: Solid, U-factor: 0.350

Comments: \_\_\_\_\_

## Floors:

- Floor 1: All-Wood Joist/Truss:Over Unconditioned Space, R-38.0 cavity insulation

Comments: \_\_\_\_\_

Floor insulation is installed in permanent contact with the underside of the subfloor decking.

## Air Leakage:

- Joints (including rim joist junctions), attic access openings, penetrations, and all other such openings in the building envelope that are sources of air leakage are sealed with caulk, gasketed, weatherstripped or otherwise sealed with an air barrier material, suitable film or solid material.
- Air barrier and sealing exists on common walls between dwelling units, on exterior walls behind tubs/showers, and in openings between window/door jambs and framing.
- Recessed lights in the building thermal envelope are 1) type IC rated and ASTM E283 labeled and 2) sealed with a gasket or caulk between the housing and the interior wall or ceiling covering.
- Access doors separating conditioned from unconditioned space are weather-stripped and insulated (without insulation compression or damage) to at least the level of insulation on the surrounding surfaces. Where loose fill insulation exists, a baffle or retainer is installed to maintain insulation application.
- Wood-burning fireplaces have gasketed doors and outdoor combustion air.

## Air Sealing and Insulation:

- Building envelope air tightness and insulation installation complies by either 1) a post rough-in blower door test result of less than 7 ACH at 33.5 psf OR 2) the following items have been satisfied:
- (a) Air barriers and thermal barrier: Installed on outside of air-permeable insulation and breaks or joints in the air barrier are filled or repaired.
  - (b) Ceiling/attic: Air barrier in any dropped ceiling/soffit is substantially aligned with insulation and any gaps are sealed.
  - (c) Above-grade walls: Insulation is installed in substantial contact and continuous alignment with the building envelope air barrier.
  - (d) Floors: Air barrier is installed at any exposed edge of insulation.
  - (e) Plumbing and wiring: Insulation is placed between outside and pipes. Batt insulation is cut to fit around wiring and plumbing, or sprayed/blown insulation extends behind piping and wiring.
  - (f) Corners, headers, narrow framing cavities, and rim joists are insulated.
  - (g) Shower/tub on exterior wall: Insulation exists between showers/tubs and exterior wall.

## Sunrooms:

- Sunrooms that are thermally isolated from the building envelope have a maximum fenestration U-factor of 0.50 and the maximum skylight U-factor of 0.75. New windows and doors separating the sunroom from conditioned space meet the building thermal envelope requirements.

**Materials Identification and Installation:**

- Materials and equipment are installed in accordance with the manufacturer's installation instructions.
- Insulation is installed in substantial contact with the surface being insulated and in a manner that achieves the rated R-value.
- Materials and equipment are identified so that compliance can be determined.
- Manufacturer manuals for all installed heating and cooling equipment and service water heating equipment have been provided.
- Insulation R-values and glazing U-factors are clearly marked on the building plans or specifications.

**Duct Insulation:**

- Supply ducts in attics are insulated to a minimum of R-8. All other ducts in unconditioned spaces or outside the building envelope are insulated to at least R-6.

**Duct Construction and Testing:**

- Building framing cavities are not used as supply ducts.
- All joints and seams of air ducts, air handlers, filter boxes, and building cavities used as return ducts are substantially airtight by means of tapes, mastics, liquid sealants, gasketing or other approved closure systems. Tapes, mastics, and fasteners are rated UL 181A or UL 181B and are labeled according to the duct construction. Metal duct connections with equipment and/or fittings are mechanically fastened. Crimp joints for round metal ducts have a contact lap of at least 1 1/2 inches and are fastened with a minimum of three equally spaced sheet-metal screws.

*Exceptions:*

Joint and seams covered with spray polyurethane foam.

Where a partially inaccessible duct connection exists, mechanical fasteners can be equally spaced on the exposed portion of the joint so as to prevent a hinge effect.

Continuously welded and locking-type longitudinal joints and seams on ducts operating at less than 2 in. w.g. (500 Pa).

- Duct tightness test has been performed and meets one of the following test criteria:
  - (1) Postconstruction leakage to outdoors test: Less than or equal to 64.0 cfm (8 cfm per 100 ft<sup>2</sup> of conditioned floor area).
  - (2) Postconstruction total leakage test (including air handler enclosure): Less than or equal to 96.0 cfm (12 cfm per 100 ft<sup>2</sup> of conditioned floor area) pressure differential of 0.1 inches w.g.
  - (3) Rough-in total leakage test with air handler installed: Less than or equal to 48.0 cfm (6 cfm per 100 ft<sup>2</sup> of conditioned floor area) when tested at a pressure differential of 0.1 inches w.g.
  - (4) Rough-in total leakage test without air handler installed: Less than or equal to 32.0 cfm (4 cfm per 100 ft<sup>2</sup> of conditioned floor area).

**Heating and Cooling Equipment Sizing:**

- Additional requirements for equipment sizing are included by an inspection for compliance with the International Residential Code.
- For systems serving multiple dwelling units documentation has been submitted demonstrating compliance with 2009 IECC Commercial Building Mechanical and/or Service Water Heating (Sections 503 and 504).

**Circulating Service Hot Water Systems:**

- Circulating service hot water pipes are insulated to R-2.
- Circulating service hot water systems include an automatic or accessible manual switch to turn off the circulating pump when the system is not in use.

**Heating and Cooling Piping Insulation:**

- HVAC piping conveying fluids above 105 degrees F or chilled fluids below 55 degrees F are insulated to R-3.

**Swimming Pools:**

- Heated swimming pools have an on/off heater switch.
- Pool heaters operating on natural gas or LPG have an electronic pilot light.
- Timer switches on pool heaters and pumps are present.

*Exceptions:*

Where public health standards require continuous pump operation.

Where pumps operate within solar- and/or waste-heat-recovery systems.

- Heated swimming pools have a cover on or at the water surface. For pools heated over 90 degrees F (32 degrees C) the cover has a minimum insulation value of R-12.

*Exceptions:*

Covers are not required when 60% of the heating energy is from site-recovered energy or solar energy source.

**Lighting Requirements:**

- A minimum of 50 percent of the lamps in permanently installed lighting fixtures can be categorized as one of the following:
  - (a) Compact fluorescent
  - (b) T-8 or smaller diameter linear fluorescent
  - (c) 40 lumens per watt for lamp wattage  $\leq 15$
  - (d) 50 lumens per watt for lamp wattage  $> 15$  and  $\leq 40$
  - (e) 60 lumens per watt for lamp wattage  $> 40$

**Other Requirements:**

- Snow- and ice-melting systems with energy supplied from the service to a building shall include automatic controls capable of shutting off the system when a) the pavement temperature is above 50 degrees F, b) no precipitation is falling, and c) the outdoor temperature is above 40 degrees F (a manual shutoff control is also permitted to satisfy requirement 'c').

**Certificate:**

- A permanent certificate is provided on or in the electrical distribution panel listing the predominant insulation R-values; window U-factors; type and efficiency of space-conditioning and water heating equipment. The certificate does not cover or obstruct the visibility of the circuit directory label, service disconnect label or other required labels.

**NOTES TO FIELD:** (Building Department Use Only)

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# 2009 IECC Energy Efficiency Certificate

Insulation Rating	R-Value
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Ceiling / Roof	38.00
Wall	21.00
Floor / Foundation	38.00

Ductwork (unconditioned spaces): \_\_\_\_\_

Glass & Door Rating	U-Factor	SHGC
---------------------	----------	------

Window	0.29	0.29
Door	0.35	NA

Heating & Cooling Equipment	Efficiency
-----------------------------	------------

Heating System: _____	_____
Cooling System: _____	_____
Water Heater: _____	_____

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Comments: