

**Design Criteria**

Square Footage: 399.5 Sq. ft.  
 Occpancy load: 4 (Egress load)  
 Floor dead load: 23 PSF.  
 Floor live load: 50 PSF.  
 Roof dead load: 9 PSF.  
 Ground snow load: 40 PSF.  
 Roof snow load: 40 PSF.  
 Building Weight 13,000 LBS.

VIN# = RP9FT3421GA028020

# APPROVED FOR PRODUCTION

*Armstrong Trailers*  
 12 x 38 Office  
 11'-9" x 34'-0" Box Size

**FRAME - OUTRIGGER**

MAIN I-BEAM: M10X8 I-BEAM (ASTM A36) (FY=36KSI)  
 CROSSMEMBER: ANGLE & ROD AND 13GA FORMED STEEL OUTRIGGER @ 48" O.C.  
 NOTE: SOLID REAR CROSSMEMBERS AND RECESSED TAIL LIGHTS  
 HITCH: DETACHABLE W/ 2 5/16" CUP AND JACK  
 AXLES: 2 W/BRAKES, 6-MULTI-LEAF SPRINGS OVERSLUNG (SINGLE TANDEM)  
 NOTE: 75 1/2" SPRING CENTERS  
 TIRES: 14-PLY  
 PAINT: MIN 3 MIL BLACK ASPHALT  
 TIE DOWNS: FRAME TIES, IF REQUIRED, ON SITE BY OTHERS

**FLOOR - TRANSVERSE**

BOTTOM BOARD: WOVEN PLASTIC INSULATION SUPPORT  
 NOTE: FASTENED TO BOTTOM OF JOISTS 24" O.C. MAX  
 INSULATION: CSA R-20 UNFACED FIBERGLASS  
 JOISTS: 2X6 #2 SPF EQUAL OR BETTER @ 16" O.C. (TRANSVERSE)  
 RIM JOIST: 2X6 #2 SPF EQUAL OR BETTER  
 DECKING: 1ST LAYER 5/8" T&G PLYWOOD 16" O.C. MIN. SPAN INDEX  
 COVERING: 1/8" VINYL COMPOSITION TILE (CLASS A/1 F.S.)  
 (COLOR = #51839 FORTRESS WHITE )

**EXTERIOR WALLS**

STUDS: 2X6 STUD GRADE SPF EQUAL OR BETTER @ 16" O.C.  
 BOTTOM PLATE: SINGLE 2X6 #3 SPF EQUAL OR BETTER  
 TOP PLATE(S): DOUBLE 2X6 #3 SPF EQUAL OR BETTER  
 WALL HEIGHT: 8'-0"  
 WALL COVERING: 1/2" VCG (CLASS A/1 F.S.)  
 (COLOR = HAMPTON GRAY)  
 INSULATION: CSA R-20 UNFACED FIBERGLASS BATTS  
 SHEATHING: HOUSEWRAP UNDER SIDING  
 SIDING: 7/16" SMART PANEL WOOD SIDING WITH GROOVES EVERY 4" O.C.  
 (COLOR = NAVAJO WHITE )  
 TRIM: 1X4 TOP (SIDES), CORNERS, DOORS AND WINDOWS  
 TRIM: 1X6 BOTTOM & TOP (ENDS)  
 (COLOR = CHOCOLATE )  
 SKIRTING: SKIRTING SUPPLIED AND INSTALLED ON SITE BY OTHERS

**INTERIOR WALLS**

STUDS: 2X4 STUD GRADE SPF EQUAL OR BETTER @ 16" O.C.  
 BOTTOM PLATE: SINGLE 2X4 #3 SPF EQUAL OR BETTER  
 TOP PLATE(S): DOUBLE 2X4 #3 SPF EQUAL OR BETTER  
 WALL HEIGHT: 8'-0"  
 WALL COVERING: 1/2" VCG (CLASS A/1 F.S.)  
 TRIM: WHITE MESA OAK WOOD PROFILES @ WINDOWS AND DOORS  
 TRIM: VINYL BATTENS AT TOP, VERTICAL SEAMS, INSIDE AND OUTSIDE CORNERS  
 TRIM: 4" VINYL COVE BASE (COLOR = #P140 FAWN )

**ROOF**

RAFTERS: LOW PROFILE BOW TRUSSES @ 16" O.C. W/40# LIVE LOAD  
 12" HEEL X 14" CROWN 11' - 6" LONG TRUSS#T8595421  
 MANSARD: 18" HIGH SMART PANEL W/GROOVES TO MATCH SIDING.  
 (COLOR = CHOCOLATE)  
 OVERHANGS: 12" PROJECTION FULL PERIMETER ENDS WITH CAN LIGHTS  
 NOTE: USE END TRUSSES FOR OVERHANG TRUSS #T8595422  
 CEILING PANEL: 1/2" PREFINISHED GYPSUM W/VAPOR BARRIER (CLASS A/1 F.S.)  
 INSULATION: CSA R-22 INSULATION  
 SHEATHING: 7/16" OSB 16/0 SPAN INDEX  
 ROOFING: .045 BLACK EPDM RUBBER ROOF FULLY ADHERED  
 GUTTERS: K-60 J-RAIL

**EXTERIOR DOORS**

A: 1 36X80 TELL 20 GA INS/STEEL DOOR W/18 GA STEEL TELL JAMBS, 22X64  
 15 SAFETY GLAZED LITE, TELL DRIP CAP, WEATHER STRIPPING, STD THRESHOLD  
 (U=. 57 SHGC=. 32)(COLOR = NAVAJO WHITE)  
 HARDWARE: 1 TELL CLOSER #12641BC PA AL  
 HARDWARE: 1 TELL DEADBOLT #DB2051 US32 SINGLE CYLINDER, GRADE 2  
 HARDWARE: 1 TELL #KC2381 EMP 32D KEYED KNOB, GRADE 2

**INTERIOR DOORS**

B: 1 36X80 PREFINISHED EMBOSSED HOLLOW CORE SNOW WHITE DOOR  
 W/ BALL BEARING HINGES, WHITE PINE JAMBS, FLOOR MOUNT DOOR STOP  
 HARDWARE: 1 FAS-TEC PASSAGE #DL22-SS KNOB SET US32D GRADE 3

**WINDOWS**

1: 5 WIN-TECH G70 48X48 HORIZONTAL SLIDER W/DIG W/LOW E COATING,  
 WHITE VINYL FRAME, DRIP CAP AND BUG SCREEN (U=. 34 SHGC =. 25)  
 BLINDS: 5 1" ALUMINUM MINIBLINDS (COLOR = ALABASTER )

**ELECTRICAL**

NOTE: ALL ELECTRICAL TO MEET CSA STANDARDS  
 SERVICE: 120/240V SINGLE PHASE, 3 WIRE, 60HZ W/GROUND  
 LOAD CENTER: 1 24 CIRCUIT WITH MAIN 100AMP BREAKER CQ0124M125C100  
 NOTE: CSA HEIGHT TO BE 36" TO BOTTOM.  
 ENTRANCE: 1 1/2" EMT CONDUIT STUB THRU FLOOR  
 RACEWAY: MIN. #14 AWG NM UP TO 40A. > 40A IN SE TYPE WIRE.(CSA)  
 LIGHTS: 5 4' 2 32W T8-TUBE FLUOR. W/DIFFUSER & ELECTRONIC BALLAST  
 W/LUMINAIR DISCT. (SB 232 120 RE)  
 EXTERIOR LIGHT 1 75W WEATHERPROOF EXTERIOR LIGHTS #VR1  
 LIGHTS: 4 INCANDESCENT 6" CAN LIGHT #L7X WITH WHITE OPEN TRIM #6H20 TOR U  
 WEATHER PROOF RECESSED IN OVERHANG  
 NOTE: CSA RECEPTS AND SWITCHES TO BE GROUNDED TO BOX  
 RECEPTACLES: 8 120V 15A IVORY DUPLEX GROUNDING TYPE (# 5320ICP)  
 RECEPTACLES: 2 SEE COOLING CALL OUT FOR A/C RECEPT REQUIREMENTS  
 SWITCHES: 3 120V 15 AMP IVORY TOGGLE TYPE #CSB115I  
 MISC: 3 2X4 EMPTY J-BOXES W/ COVER AND 1/2" CONDUIT STUBBED THRU FLOOR  
 FOR PHONE/DATA (SYSTEMS TO BE INSTALLED ON SITE BY OTHERS)

**HVAC**

COOLING: 2 5000 BTU 120V THRU-WALL AIR CONDITIONER (PERFECT AIR PAC 5,000)  
 W/ 20A IVORY SINGLE GROUNDING TYPE A/C RECEPT (# 5801I)  
 HEATING: 5 6' 1.5KW 120 VOLT BASEBOARD HEATER  
 THERMOSTAT 5 120V WALL MOUNT #MS26

**SPECIALTIES**

EXTINGUISHER: IF REQUIRED, ON SITE BY OTHERS

**Building Notes:**

- All materials are C and B Custom Modular's standards unless otherwise specified.
- All door adjustments are on site by others.
- C and B Custom Modular Inc. is not responsible for local codes or permits.
- Construction type trailer

## Drawing Index

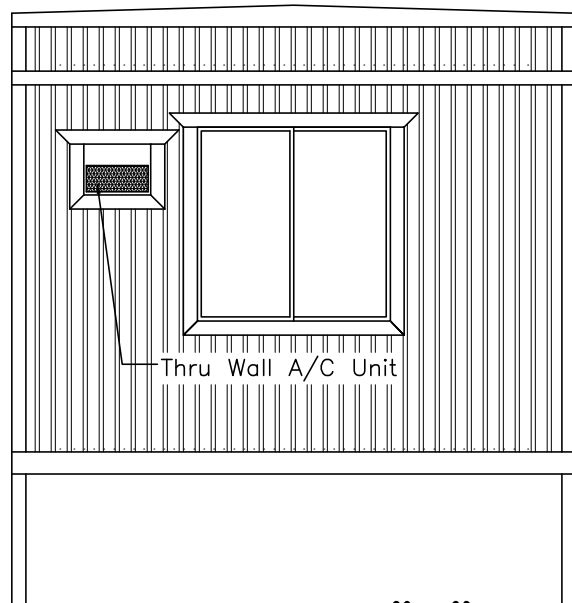
Page	Page Description
C1	Project Cover Sheet
A1	Building Elevations
A2	Production Floor Plan
E1	Production Electrical Plan
S1	Blocking Points / Details
S2	Cross Section / Details
S3-S5	Production Frame, Floor and Roof Framing Plans

ID	Revision	Date

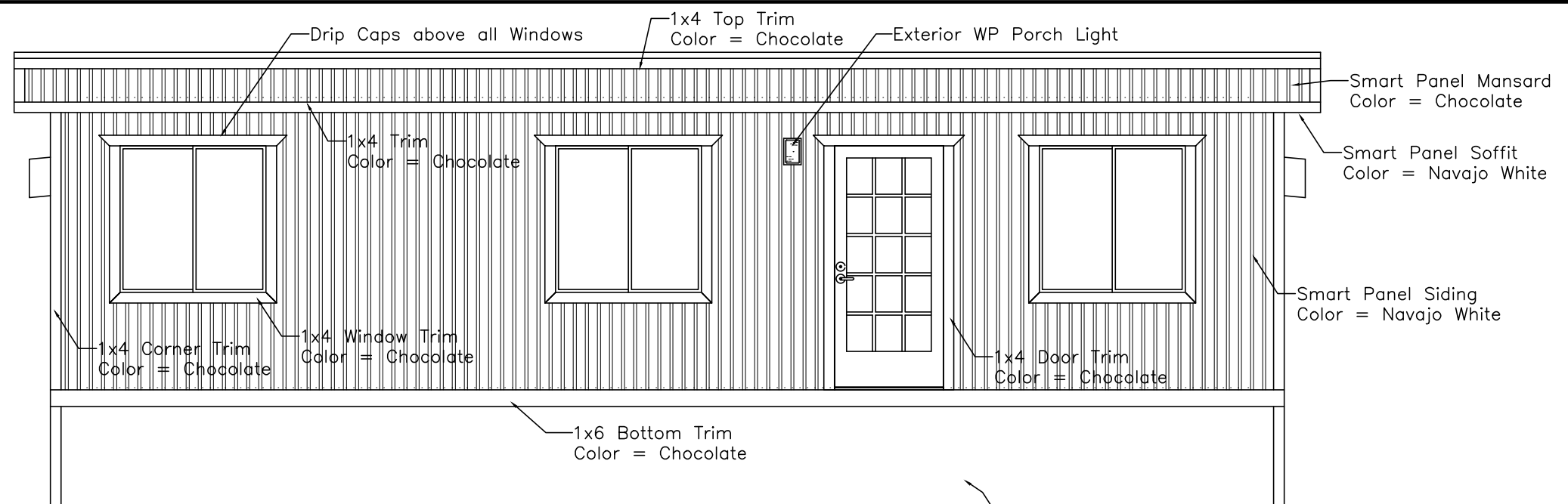


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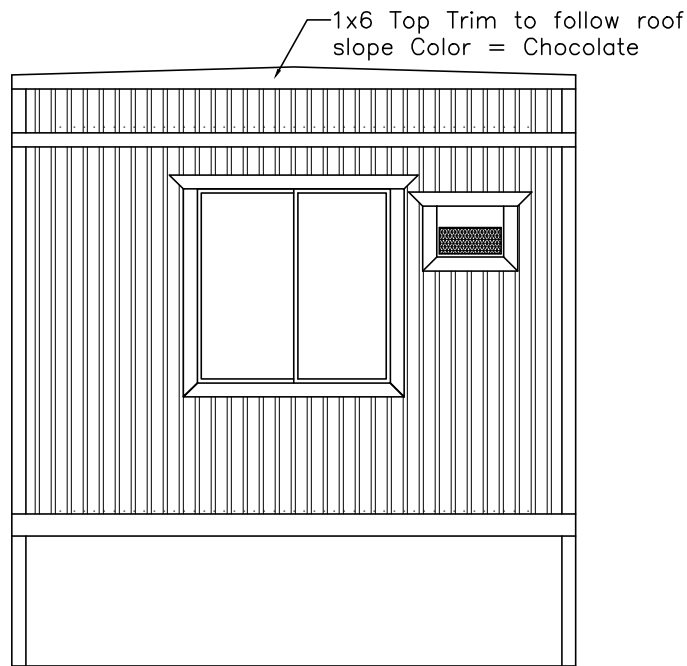
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Serial Numbers: 16-19395	Drawing Number: 1955	DWG File Name: 16-19395.dwg	
Approval Numbers: QPS-Electrical		Sales Representative: Lewis Chadwick	
Title: Armstrong Trailers 12 x 38 Office (11'-9" x 34'-0")			
Sheet Description: Building Cover Sheet			Page #: C1



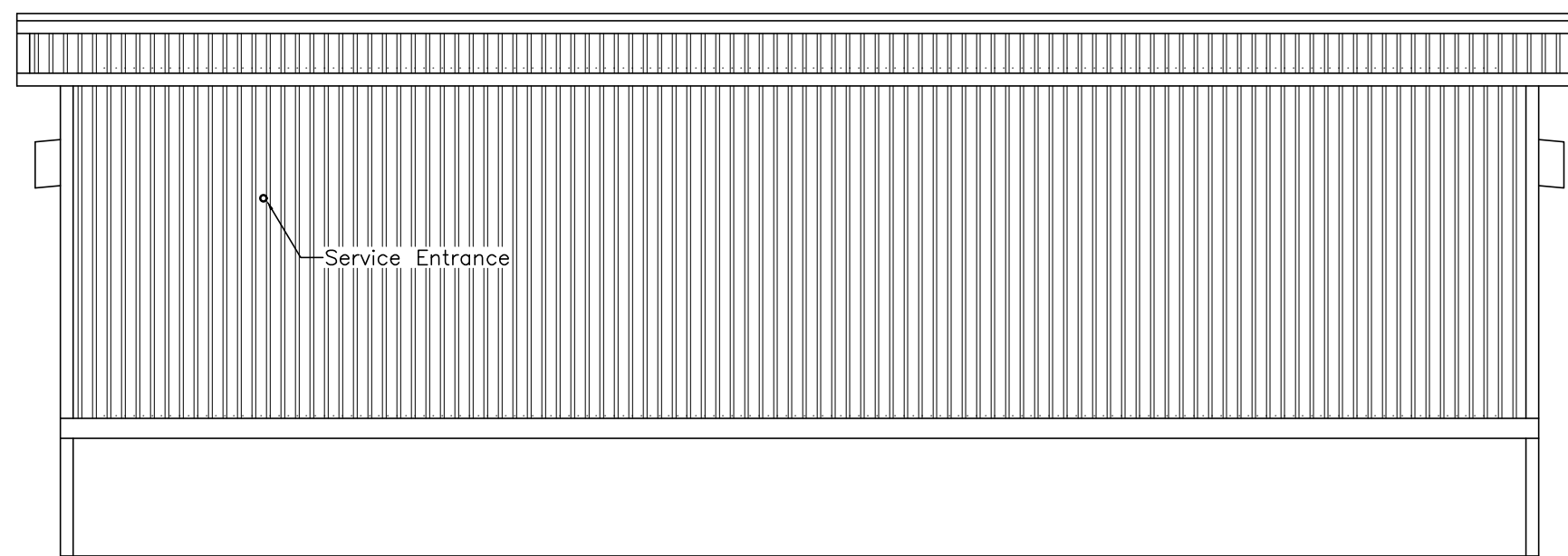
**Elevation "D"**



**Elevation "A"**



**Elevation "B"**



**Elevation "C"**

Skirting Supplied and Installed by others at site

ID	Revision	Date

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Sheet Description: Building Elevations			Page #: A1

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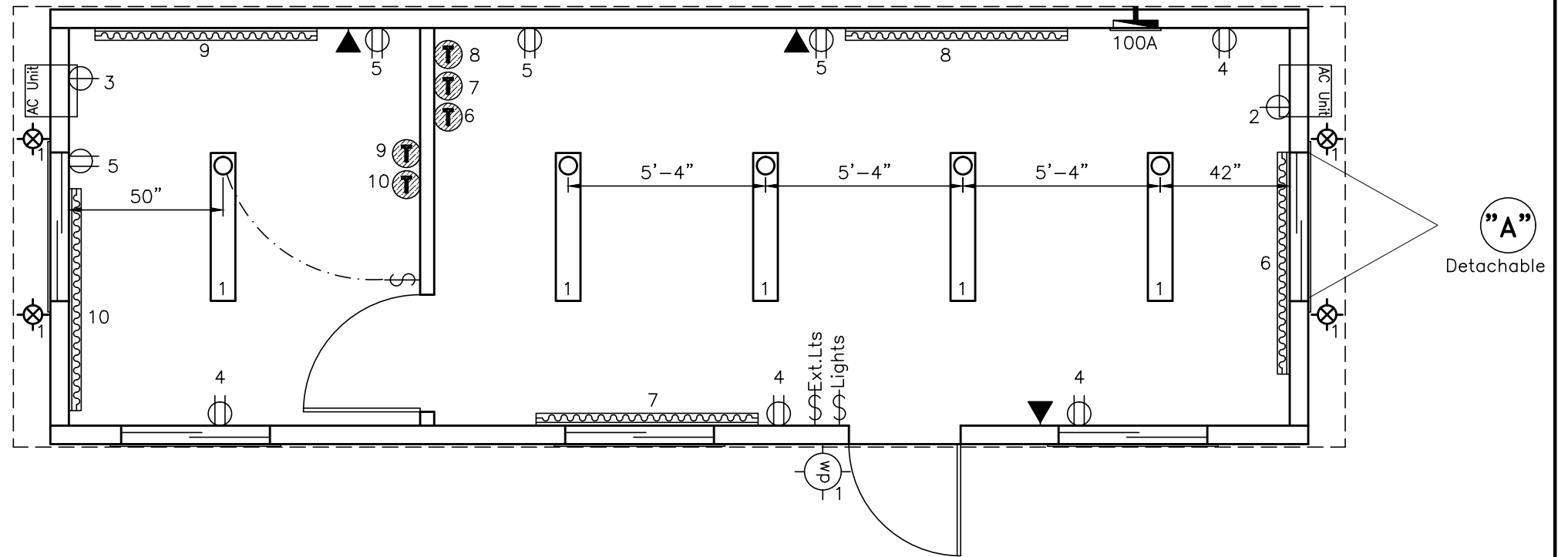


## DRAWING LEGEND

SYMBOL	QTY.	DESCRIPTION
	1	120/240 electric panel (+36" AFF to bottom of panel)
	5	120V thermostat (+48" AFF to top)
	5	120V 1.5KW Electric 72" Baseboard heater (+4" A.F.F.)
	8	120V ivory duplex grounding type (+18" AFF unless noted)
	2	120V ivory single A/C Recept (+54" AFF unless noted)
	3	2x4-jbox w/blank cover and 1/2" conduit thru floor for phone/data. (+18" AFF unless noted)
	3	120V ivory toggle type (+42" AFF unless noted)
	5	120V 4' (2) tube surface mount w/diffuser
	4	120v recessed 6" incan light (IC rated) wp
	1	120v exterior weatherproof porch light (+74" AFF unless noted)

### Wire Size Chart (90° C)

Breaker Size	Wire Size	Breaker Size	Wire Size
15A	#14	80A	#4
20A	#12	90A	#3
30A	#10	100A	#3
40A	#8	115A	#2
50A	#6	130A	#1
60A	#6	150A	1/0



Modul A Area Served Sq. Meter 37.11476448 ft Area served 399.5 ft Main Breaker 100A Panel Voltage 240 Panel Phase 1

CKT#	Breaker size	Description	QTY	Voltage	Wattage per item	Connected Load	Load Factor	Calculated load	Total
1	15 /1	Lights (2-tube)	5	120	71.2	356	1.25	445	
		Can Lights	4	120	75	300	1.25	375	
		Exterior Lights	1	120	75	75	1.25	93.75	913.75
2	20 /1	A/C Recept	1	120	515	515	1.00	515	515
3	20 /1	A/C Recept	1	120	515	515	1.00	515	515
4	15 /1	Recepts	4	120	180	720	1.00	720	720
5	15 /1	Recepts	4	120	180	720	1.00	720	720
6	20 /1	Baseboard Heater	1	120	1500	1500	1.25	1875	1875
7	20 /1	Baseboard Heater	1	120	1500	1500	1.25	1875	1875
8	20 /1	Baseboard Heater	1	120	1500	1500	1.25	1875	1875
9	20 /1	Baseboard Heater	1	120	1500	1500	1.25	1875	1875
10	20 /1	Baseboard Heater	1	120	1500	1500	1.25	1875	1875

Total connected load	12758.75
Total connected load amps	53.16
Load factor	50 1855.74
Appliance Load	10405.00
CEC 2012 Elec Load Amps	<b>51.09</b>

PNL  
A

**A 120/240v 1PH 60HZ PANEL**  
**100A 2-pole breaker**  
 1 1/2" EMT conduit  
 (3) #3 T90 feeders  
 #8 GRND

### Electrical Riser Diagram

NTS

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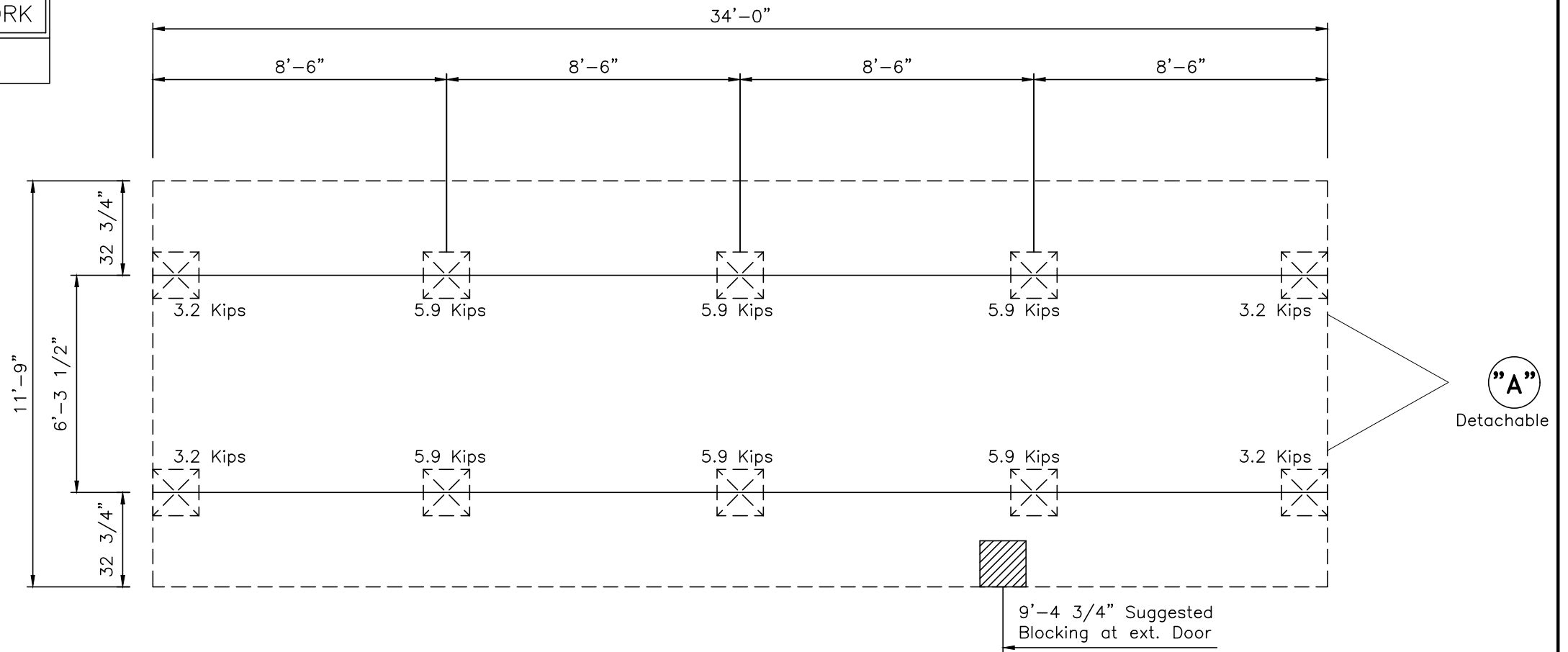
ID	Revision	Date

Scale: 1/4" = 1'-0"	Drawn: Becky B.	Date: 5/10/16	Plot Date: May 26, 2016
Serial Numbers: 16-19395	Drawing Number: 1955	DWG File Name: 16-19395.dwg	
Approval Numbers: QPS-Electrical		Sales Representative: Lewis Chadwick	
Title: <b>Armstrong Trailers</b> 12 x 38 Office (11'-9" x 34'-0")			
Sheet Description: Production Electrical Plan			Page #: E1

DRAWING		LEGEND	
SYMBOL	QTY.	DESCRIPTION	
	10	Blocking up to main I-beam	SITE WORK
	1	Blocking up to floor framing	

### FOUNDATION NOTES

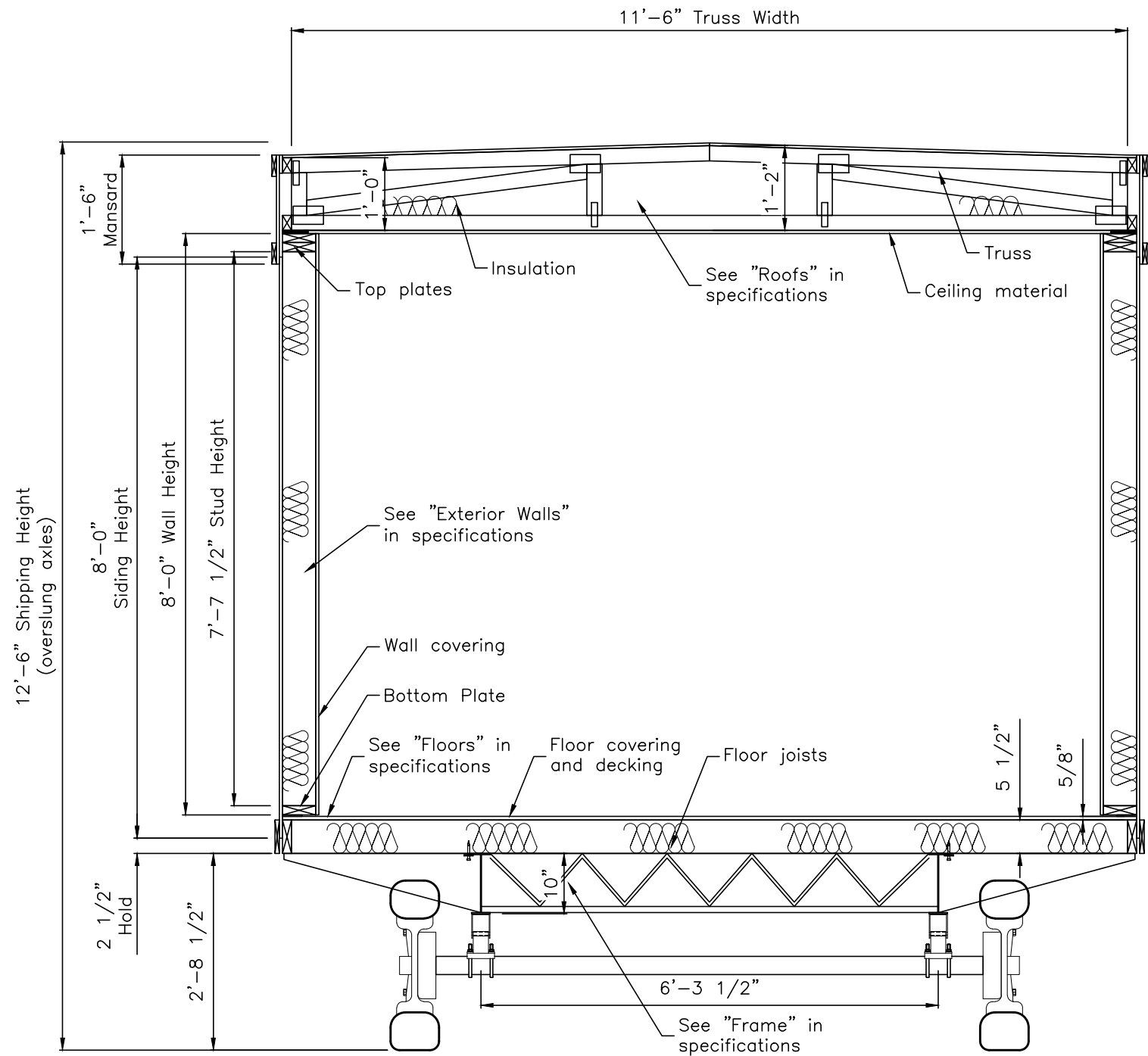
- This is a suggested plan only. Foundation to be designed by a professional engineer or registered architect per local soil and climate conditions in accordance with all applicable local and provincial codes.
- C&B Custom Modular Inc. assumes no responsibility for actual foundation design and/or construction.
- Numbers adjacent to piers are unfactored vertical loads in KIPS.



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Approval Numbers: QPS-Electrical	Sales Representative: Lewis Chadwick		
Title: Armstrong Trailers 12 x 38 Office (11'-9" x 34'-0")			
Sheet Description: Suggested Blocking Points			Page #: S1



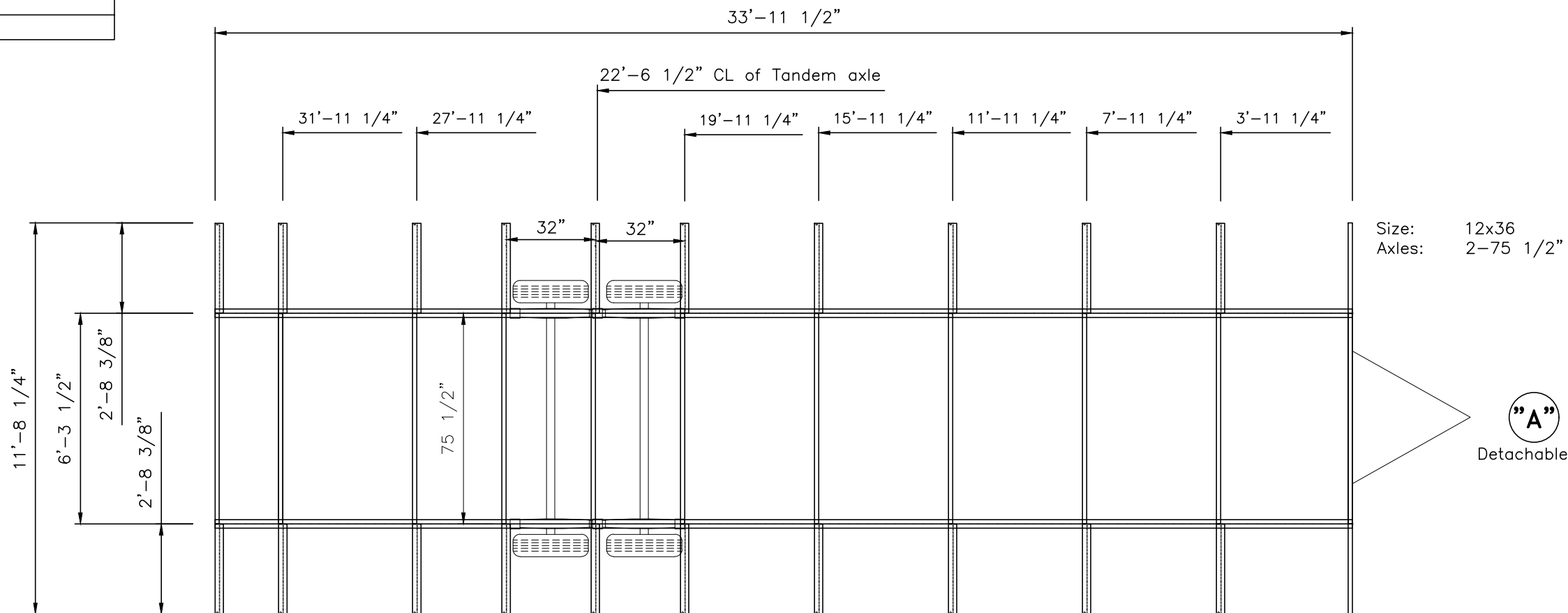
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QPS-Electrical	Lewis Chadwick		
Title:			
Armstrong Trailers			
12 x 38 Office (11'-9" x 34'-0")			
Sheet Description:			Page #:
Building Cross Section and Details			S2

**DRAWING LEGEND**

SYMBOL	QTY.	DESCRIPTION
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ID	Revision		Date

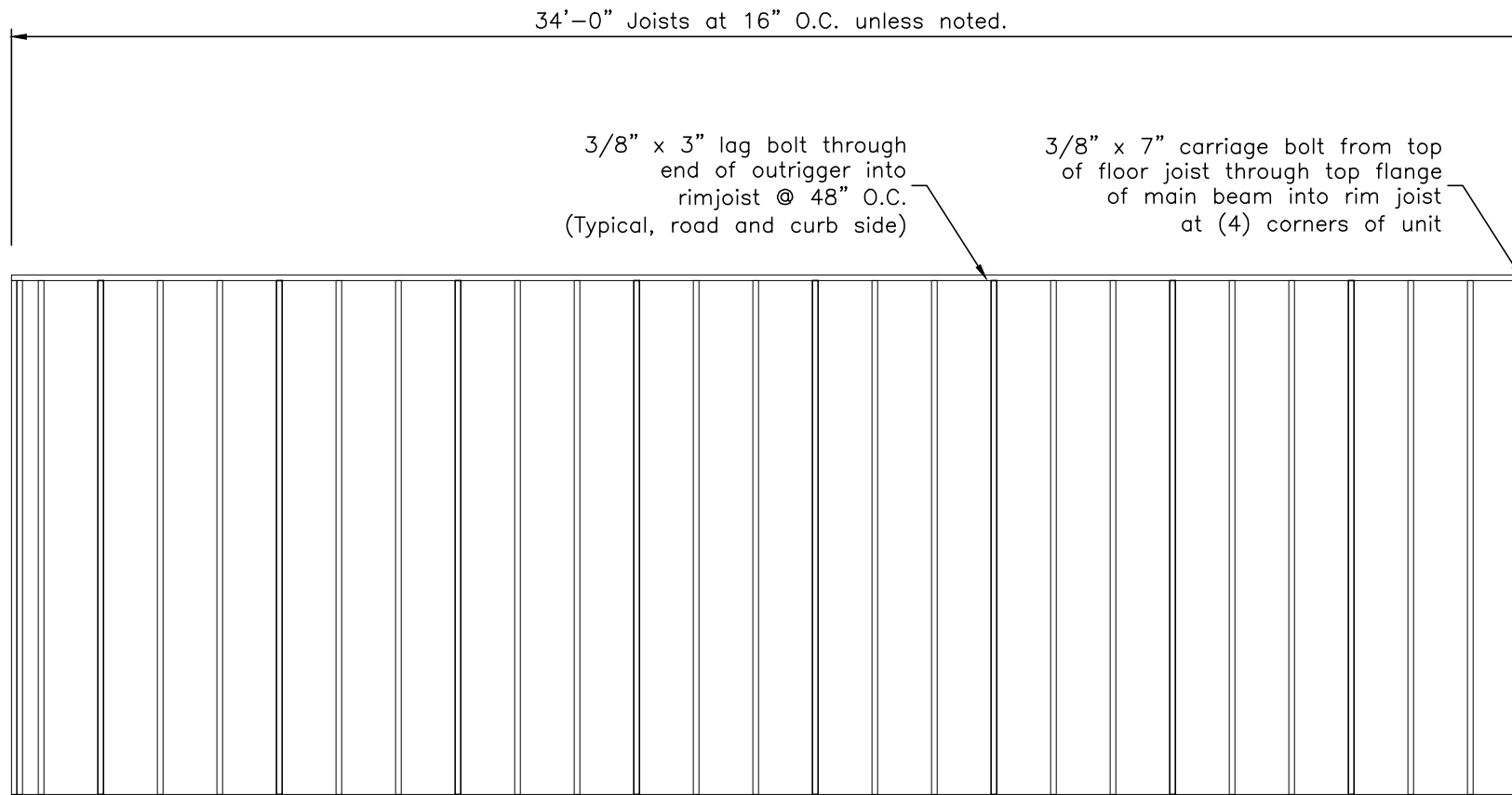
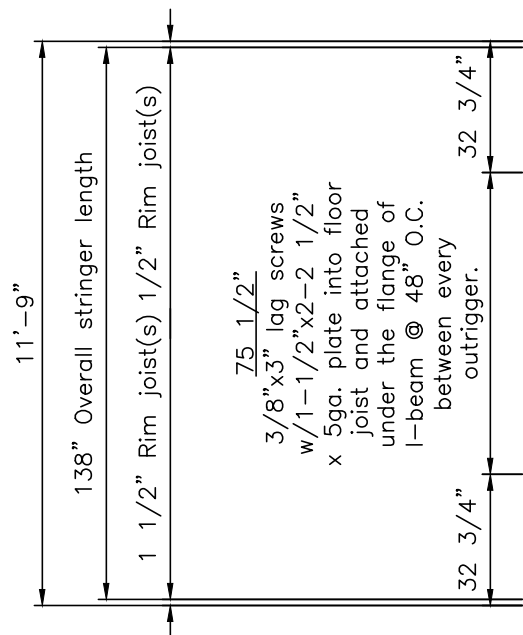
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Approval Numbers: QPS-Electrical		Sales Representative: Lewis Chadwick	
Title: Armstrong Trailers 12 x 38 Office (11'-9" x 34'-0")			
Sheet Description: Production Steel Frame Plan			Page #: S3

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**DRAWING LEGEND**

SYMBOL	QTY.	DESCRIPTION
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"A"  
Detachable

ID	Revision	Date

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Scale: 1/4" = 1'-0"  
Serial Numbers: 16-19395  
Approval Numbers: QPS-Electrical  
Title: Armstrong Trailers 12 x 38 Office (11'-9" x 34'-0")  
Sheet Description: Production Floor Framing Plan

Drawn: Becky B.  
Drawing Number: 1955  
Sales Representative: Lewis Chadwick

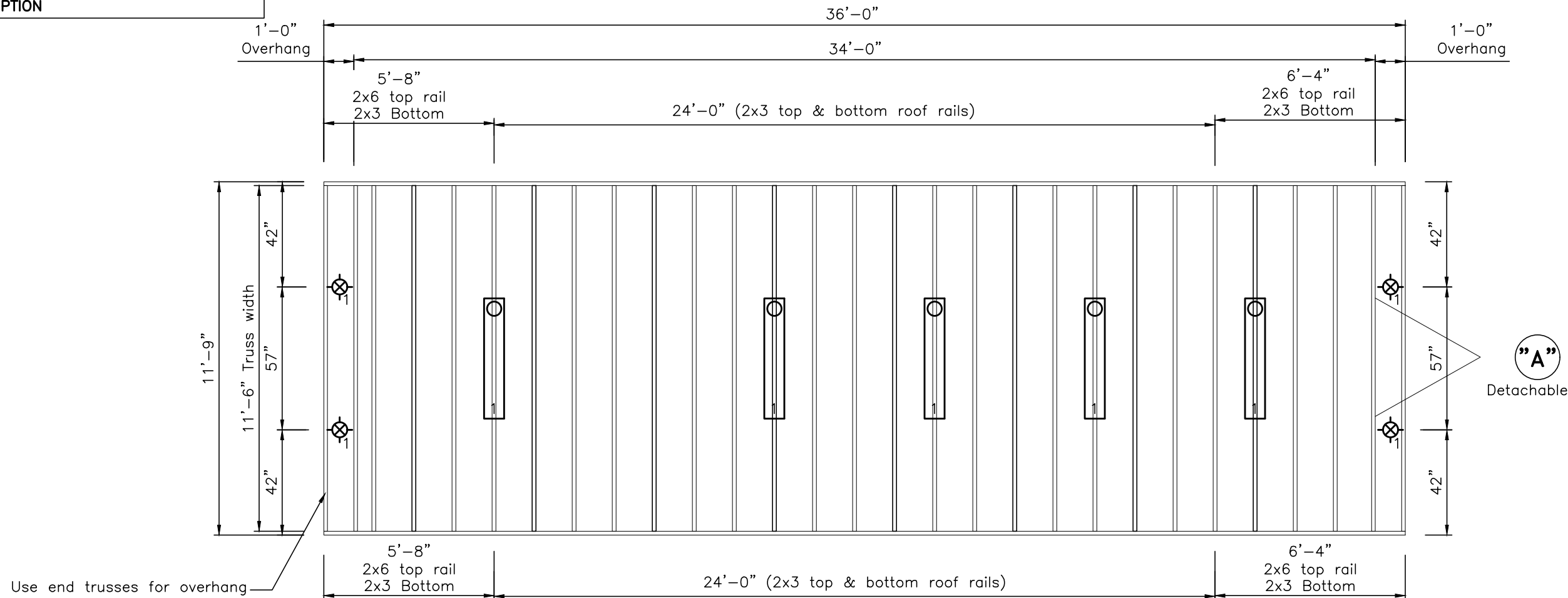
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Plot Date: May 26, 2016  
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Page #: S4



# DRAWING LEGEND

SYMBOL	QTY.	DESCRIPTION
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Title: Armstrong Trailers 12 x 38 Office (11'-9" x 34'-0")			
Sheet Description: Production Roof Framing Plan			Page #: S5

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