

ENERGY DESIGN CRITERIA:

NOTE: UNLESS OTHERWISE NOTED, ALL CODE REFERENCES ARE FROM THE 2003 IECC.

CLIMATE ZONES: 3B AS SHOWN IN TABLES 902.1 (19)
FOR BUILDINGS WITH OVERALL WINDOWS AND GLAZED DOOR OPENINGS
TOTALING 10% OR LESS OF THE GROSS ABOVE-GRADE WALL AREA.

HEATING DEGREE DAYS: 1316

R-VALUES BETWEEN FRAMING MEMBERS FROM TABLE 802.2 (10)
ROOF: ALL WOOD JOIST / TRUSS: R-19
WALL: WOOD FRAMED: R-19
FLOOR: ALL WOOD JOIST / TRUSS: R-19

U-FACTOR FOR WINDOWS: DUAL PANE/ CLEAR GLASS = 0.65 DUAL PANE/ LOW-E GLASS = 0.51
SHGC FOR WINDOWS: DUAL PANE/ CLEAR GLASS = 0.70 DUAL PANE/ LOW-E GLASS = 0.34
U-FACTOR FOR DOORS: STEEL DOOR = 0.28

LIGHTING CONTROLS: BI-LEVEL SWITCHING FOR OFFICE AND / OR CLASSR
PHOTOCELL CONTROLS FOR EXTERIOR LIGHTING.

CLOSET & STORAGE LIGHTING: RECESSED CEILING MOUNTED INCANDES
GENERAL LIGHTING: FLUORESCENT LIGHT WITH T-8 LAMPS &
EXTERIOR LIGHTING: WALL MOUNTED TWIN TUBE FLUORESC
RESTROOM LIGHTING: FLUORESCENT LIGHT WITH T-8 LAMPS &
RESTROOM LIGHTING: RECESSED CEILING MOUNTED INCANDES

HVAC EFFICIENCY: WALL HUNG ELECTRIC HVAC UNITS: 10.00 SEER

WATER HEATING COMPONENTS TO COMPLY WITH SECTION 804 OF THE 2003 IECC

SYSTEM CONTROLS: PROGRAMMABLE THERMOSTAT WITH OCCUPANT OVERRIDE PER 803.2.3.1

OUTDOOR AIR VENTILATION RATES: 20 CFM PER PERSON, PER TABLE 403.3 OF THE 2003 IMC

DUCT INSULATION: WHERE DUCTING IS USED, DUCTS SHALL BE SEPARATED FROM THE
BUILDING EXTERIOR BY A MINIMUM OF R-8 INSULATION.
(NOTE: DUCTING USED BY COMARK HAS A MINIMUM R-VALUE OF 5.6, AND
IS CONTAINED WITHIN THE BUILDING ENVELOPE.)

DUCT SEALING: DUCTS ARE TO BE SEALED IN ACCORDANCE WITH 803.2.8

NOTES:

PER SECTION 506.3 OF THE 2003 INTERNATIONAL BUILDING CODE, THE BASIC
ALLOWABLE AREA OF A SINGLE STORY BUILDING CAN BE INCREASED BY 300%
THE BUILDING TO HAVE 154 FT. OF FRONTAGE TO YARD OF PULBIC SPACE OF AT LEAST 20 FT.
ADJUSTED ALLOWABLE AREA FOR THIS BUILDING IS 10783 SQUARE FEET.

SPECIAL CONDITIONS

AND / OR LIMITATIONS:

NOTE:
MATERIALS WHICH EQUAL OR EXCEED THOSE SPECIFIED
MAY BE SUBSTITUED.

NOTE:
BUILDING IS TO BE LOCATED A MINIMUM OF 10 FT.
FROM PROPERTY LINE OR ASSUMED PROPERTY LINE.

NOTE:
DATA PLATE TO BE INSTALLED ON THE COVER OF THE
ELECTRICAL DISTRIBUTION PANEL, AS NOTED ON SHEET A-2

NOTE:
PORTABLE FIRE EXTINGUISHER TO BE PROVIDED
AND INSTALLED BY MANUFACTURER.

NOTE:
FIRE ALARM TO BE INSTALLED BY OTHERS.

NOTE:
FIRE SPRINKLER SYSTEM TO BE INSTALLED BY OTHERS.

NOTE:
POTABLE DRINKING WATER TO BE PROVIDED BY OWNER.

ACCESSIBILITY REQUIREMENTS:

NOTE:
MOUNTING HEIGHTS AND REACH RANGES OF VARIOUS
ELEMENTS, FIXTURES, AND EQUIPMENT, SHALL BE ADJUSTED
TO MEET THE NEEDS OF THE APPROPRIATE OCCUPANCY AGE
GROUP, PER ACCESSIBILITY STANDARDS SPECIFIED IN THE
DESIGN CRITERIA SPECIFICATIONS.

NOTE:
HANDICAP ACCESSIBLE RAMP TO BE INSTALLED
BY OTHERS IN ACCORDANCE WITH THE A.D.A.
GUIDELINES.

DESIGN CRITERIA:

CODES: 2003 IBC
2003 IPC
2003 IMC
2002 NEC

LA EEC (IECC)
A.D.A. with LA amendments
2003 NFPA - L.S. 101
2000 IFC

OCCUPANCY CLASSIFICATION: E
CONSTRUCTION TYPE: V-B
APPLIANCE FUEL TYPE: NONE

DESIGN LOADS:

ROOF LIVE LOAD: 20 LBS
FLOOR LIVE LOAD: 40 LBS
CONCENTRATED FLOOR LOAD: 1000 LBS
CORRIDOR FLOOR LOAD: 100

BASIC WIND SPEED: 120 MPH
3 SECOND GUST WIND SPEED: 140 MPH
SEISMIC DESIGN CATEGORY: B
EXPOSURE: B
BUILDING AREA: 9293 S.F.
OCCUPANT LOAD: 359

DRAWING INDEX:

SHEET

COVER SHEET / SPECIFICATIONS	A-1
FLOOR PLAN	A-2
EXTERIOR ELEVATIONS	A-3
CROSS-SECTION	A-4
INTERIOR ELEVATIONS	A-5
INTERIOR ELEVATIONS	A-5.1
FOUNDATION (BY OTHERS)	S-1
RESERVED	S-2
RESERVED	S-3
RESERVED	S-4
ROOF TPO LAYOUT	S-4.1
RESERVED	S-5
RIDGE BEAM CONSTRUCTION	S-6
D.W.V. SYSTEM	M-1
SUPPLY SYSTEM	M-2
CEILING GRID / HVAC LAYOUT	M-3
LIGHTING SCHEMATIC	E-1
POWER DISTRIBUTION SCHEMATIC	E-2
ELECTRICAL CALCULATIONS	E-3
ELECTRICAL CALCULATIONS	E-3.1
ALARM SYSTEM LAYOUT	E-4



LAZENBY & ASSOC.

CONSULTING ENGINEERS

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2000 N. 7th STREET P.O. BOX 728
WEST MONROE, LA. 71219
TEL: (318) 387-271C

No.

BY

DESCRIPTION

Date

DATE: 6/17/2005

SCALE: N.T.S.

PLOT SCALE: N.T.S.

DRAWN BY: B.S.

CHECK BY:

COVER SHEET / SPECIFICATIONS

WS-RSD BUILDING "C"

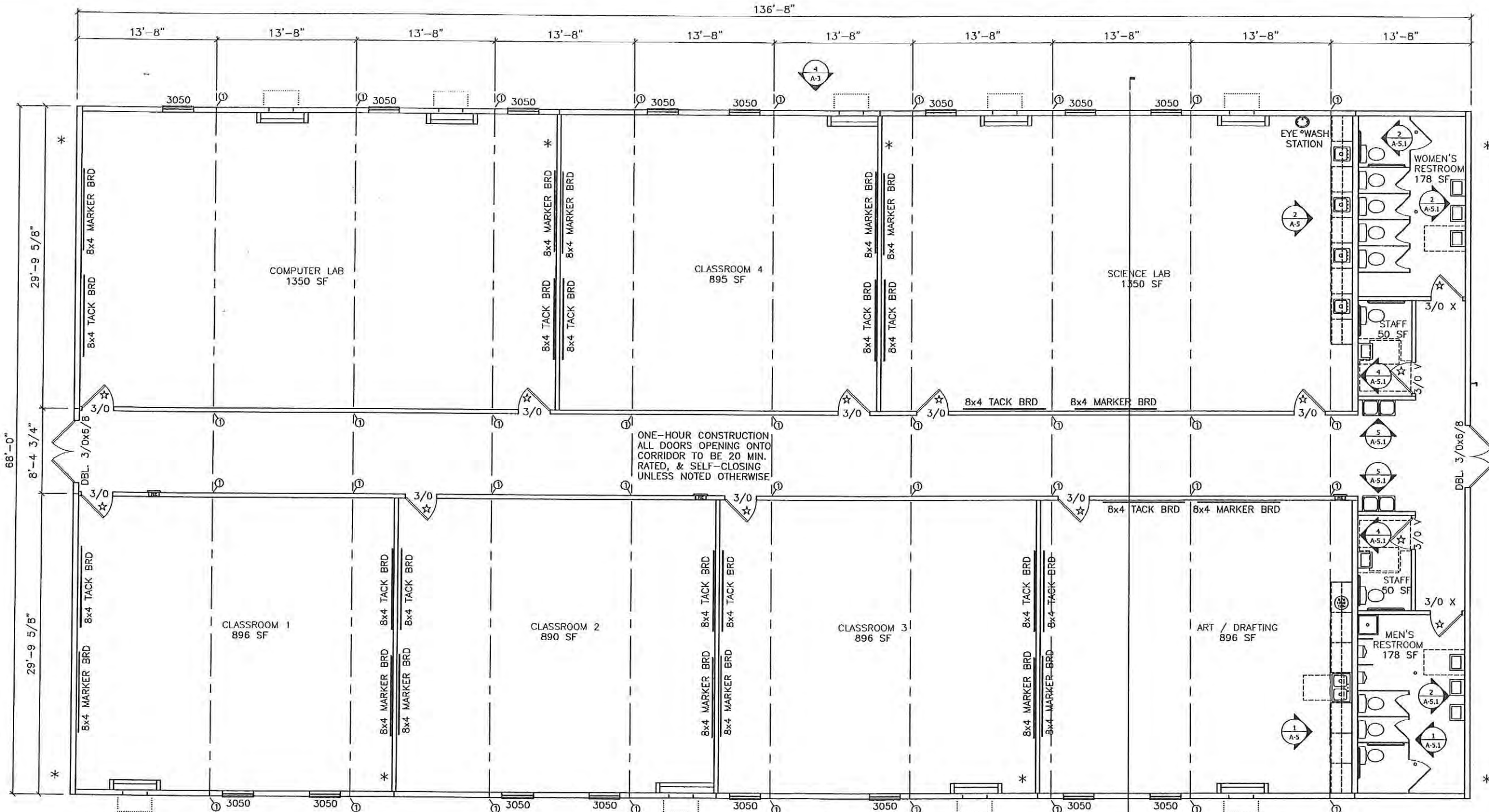
NEW ORLEANS, LA

Dwg No. 68152RSD-C

S/N: 2920-22

SHEET No.

A-1



ONE-HOUR CONSTRUCTION
ALL DOORS OPENING ONTO
CORRIDOR TO BE 20 MIN.
RATED, & SELF-CLOSING
UNLESS NOTED OTHERWISE

DOOR LEGEND					
CALLOUT	NOMINAL SIZE	MATERIAL	HARDWARE	GLAZING	NOTES
DBL. 3/0x6/8	6'-0" x 6'-8"	18ga. STEEL DOOR	PULL / PANIC	6x27	REMOVABLE MULLION
3/0	3'-0" x 6'-8"	PRE-FINISHED SOLID CORE	LEVER, KEYED	NONE	KEYED SEPARATELY
3/0 V	3'-0" x 6'-8"	PRE-FINISHED SOLID CORE	LEVER, PRIVACY	NONE	
3/0 P	3'-0" x 6'-8"	PRE-FINISHED SOLID CORE	LEVER, PASSAGE	NONE	KICKPLATES
THRESHOLDS AT DOORS NOT TO EXCEED 1/2", AND ARE TO BE BEVELED IF IN EXCESS OF 1/4"					

WINDOW LEGEND							
CALLOUT	NOMINAL SIZE	LIGHT	VENT	MATERIAL	FINISH	STYLE	GLAZING
3050	36" x 60"	10.51	5.25	ALUMINUM	MILL	SINGLE HUNG	DUAL / CLEAR / LOW-E
NOTE: WINDOWS MEET ALL REQUIREMENTS FOR EGRESS WINDOWS							

- * - DENOTES SHEAR WALL LOCATION
- ① - DENOTES 3-EA. 2x4'S AND 1-SIMPSON
MSTI 26 PER MANUF.'S SPECS.
AT CORRIDOR WALLS AND
3"x26 GA. STRAPS AT SIDE WALLS.
- ☆ - DENOTES 20 MINUTE RATED DOOR
- ★ - DENOTES 45 MINUTE RATED DOOR



8 TIE-DOWNS MIN. REQ'D ALONG SHORT
WALL AND 14 TIE-DOWNS ALONG LONG
WALL.

1 FLOOR PLAN
Scale: 3/32" = 1'-0"

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WEST MONRIE, LOUISIANA 71291
PHONE: 318-387-2710

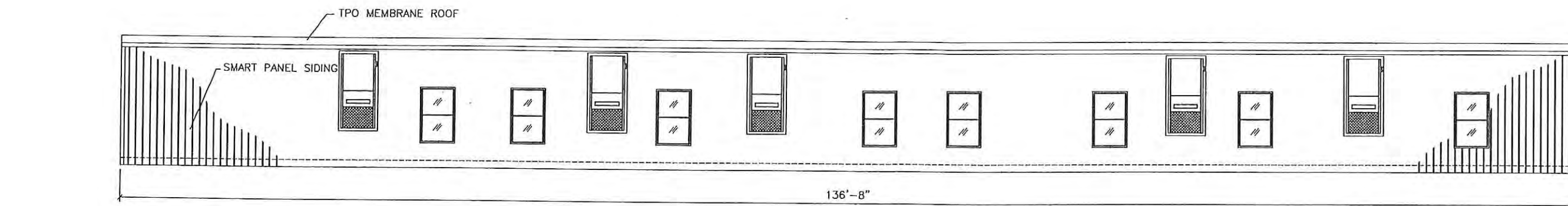
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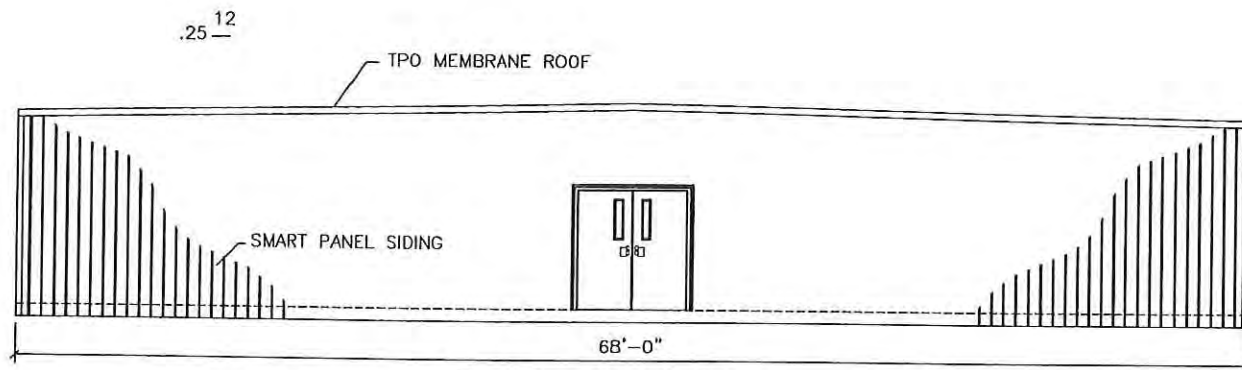
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NEW ORLEANS, LOUISIANA
FLOOR PLAN
FILE: 68137RSD-C
SERIAL #: 2920-22

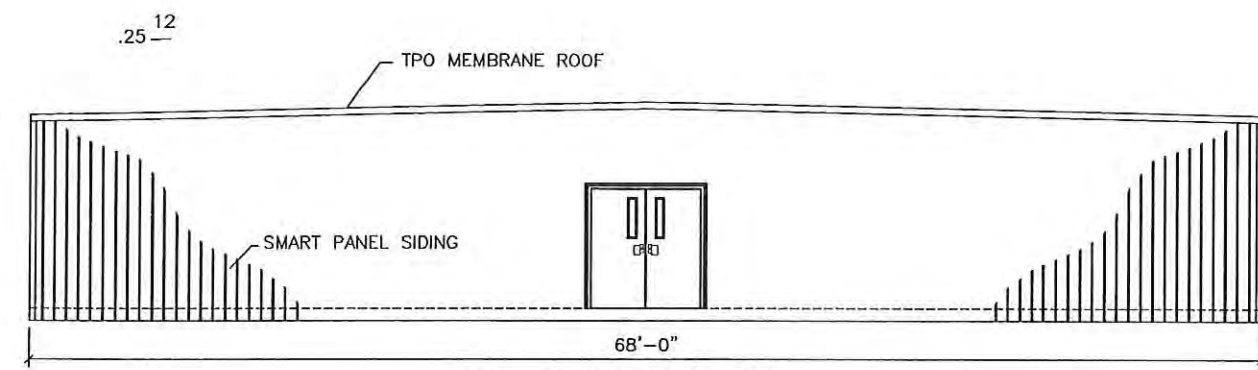
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A-2



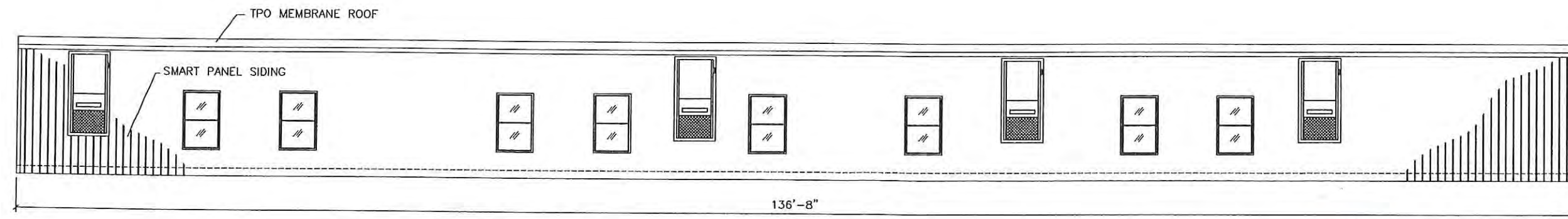
4 REAR ELEVATION
Scale: 3/32" = 1'-0"



3 LEFT ELEVATION
Scale: 3/32" = 1'-0"



2 RIGHT ELEVATION
Scale: 3/32" = 1'-0"



1 FRONT ELEVATION
Scale: 3/32" = 1'-0"



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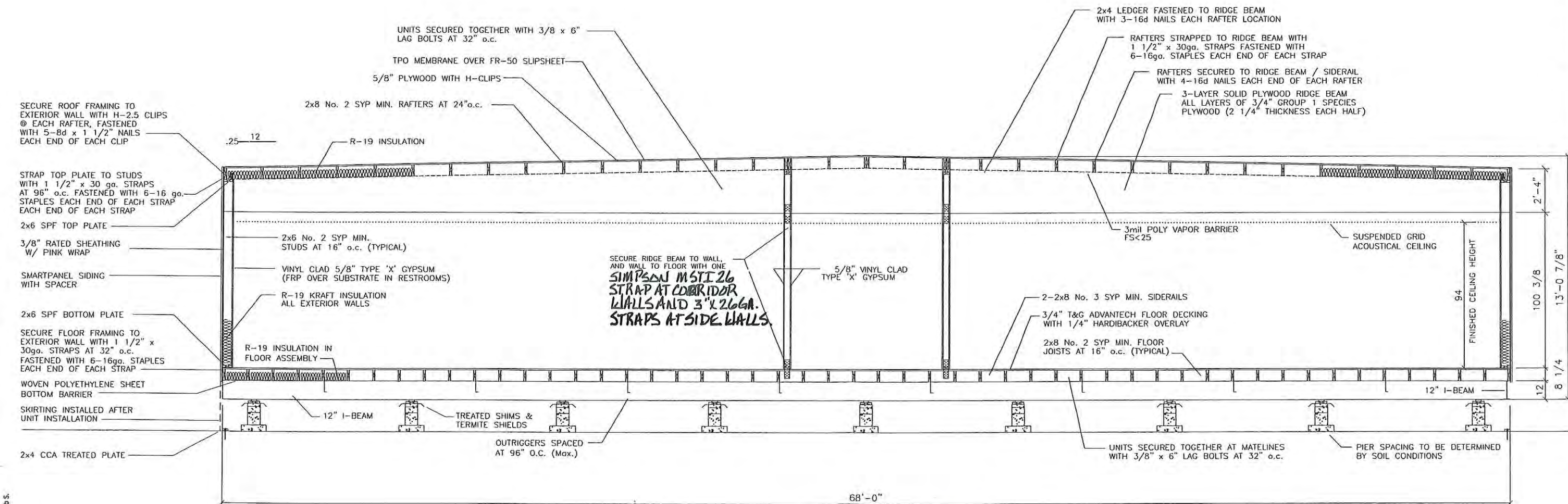
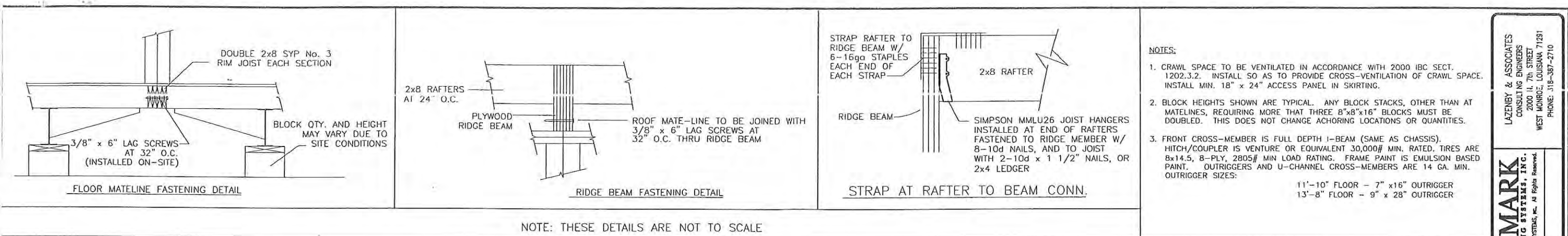
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DRAWN BY: PW
CHECKED BY:

RSD BUILDING "C"
NEW ORLEANS, LOUISIANA
EXTERIOR ELEVATIONS
FILE: 68137RSD-C
SERIAL #: 2920-22

SHEET No.
A-3

G:\RSD\081376SD-C.dwg, 5/14/2007 4:26:34 PM, Bob S.



TRANSPORTATION HEIGHT: 14'-11"
PRODUCTION HEIGHT: 13'-7"

1 CROSS SECTION
Scale: 3/16" = 1'-0"

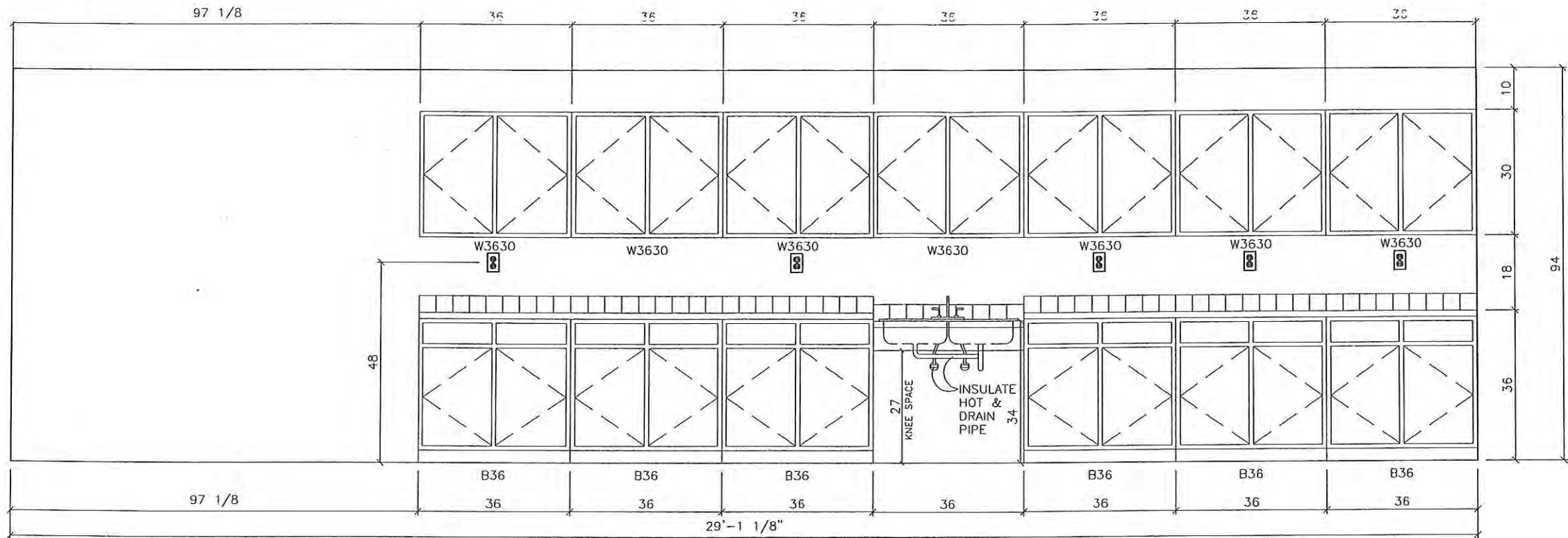
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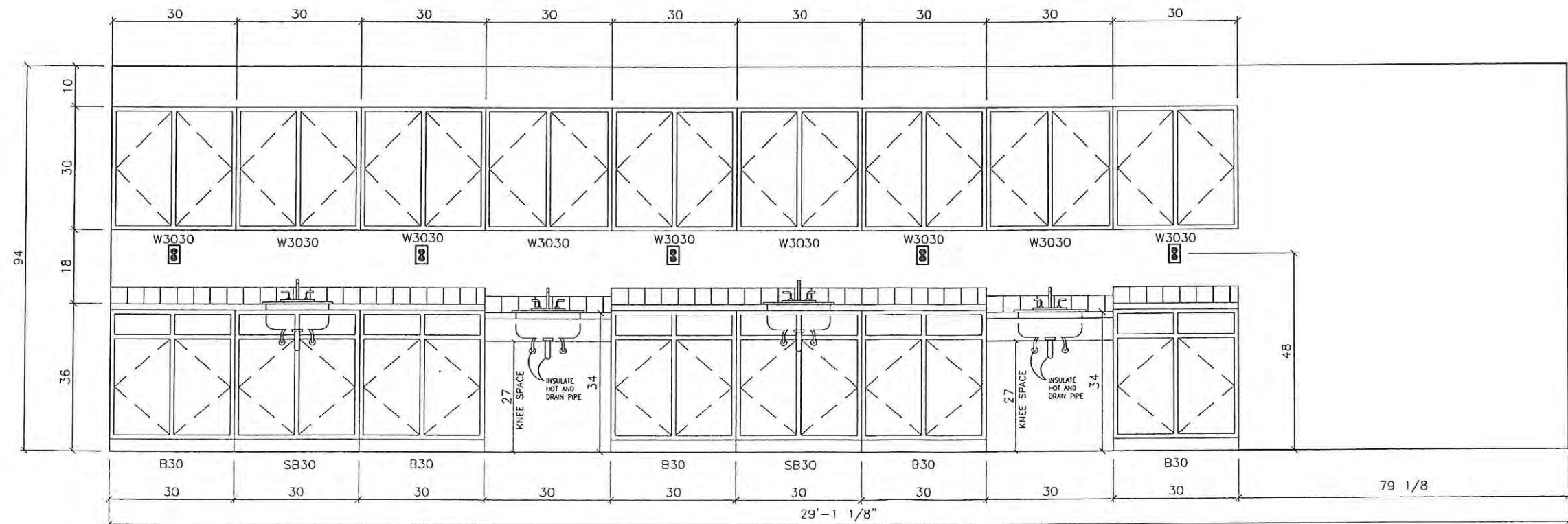
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NEW ORLEANS, LOUISIANA
CROSS-SECTION
FILE: 681376SD-C
SERIAL #:

SHEET No.
A-4

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1 ART / DRAFTING CABINETS
Scale: 3/8" = 1'-0"



2 SCIENCE LAB CABINETS
Scale: 3/8" = 1'-0"



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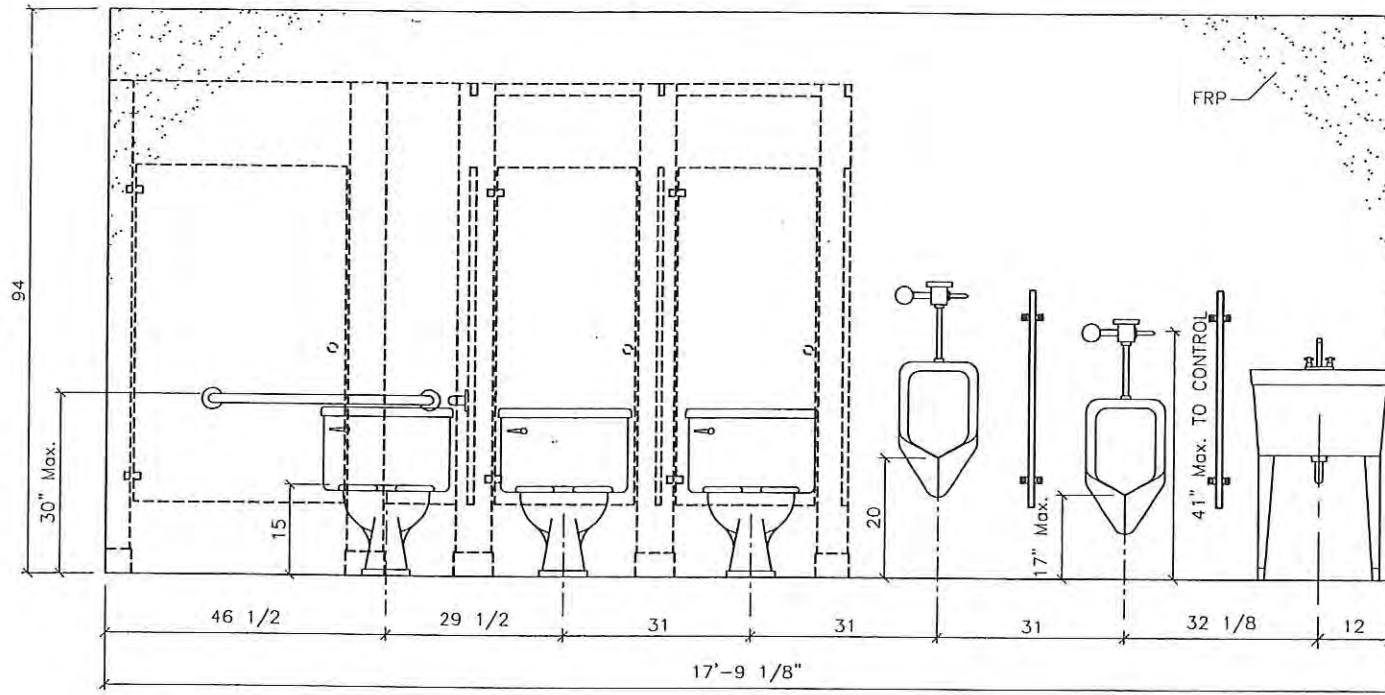
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No.	DESCRIPTION	BY	DATE

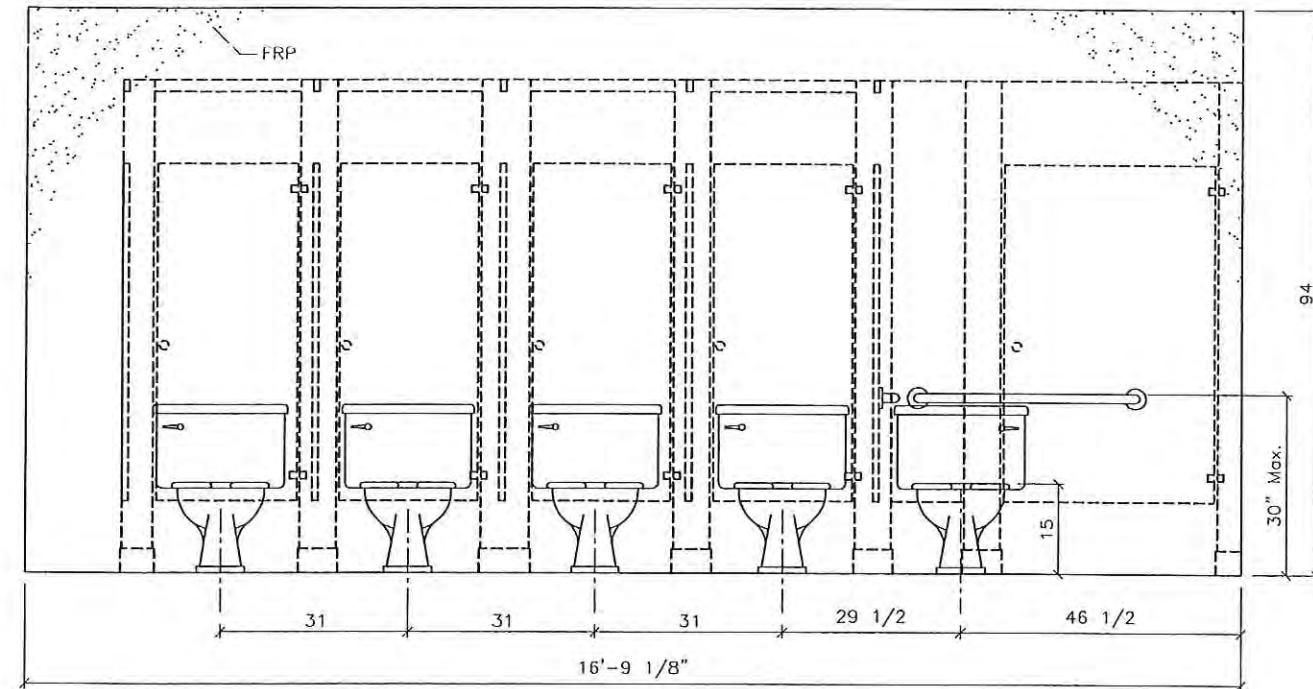
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RSD BUILDING "C"
NEW ORLEANS, LOUISIANA
INTERIOR ELEVATIONS
FILE: 68137RSD-C
SERIAL #: 2920-22

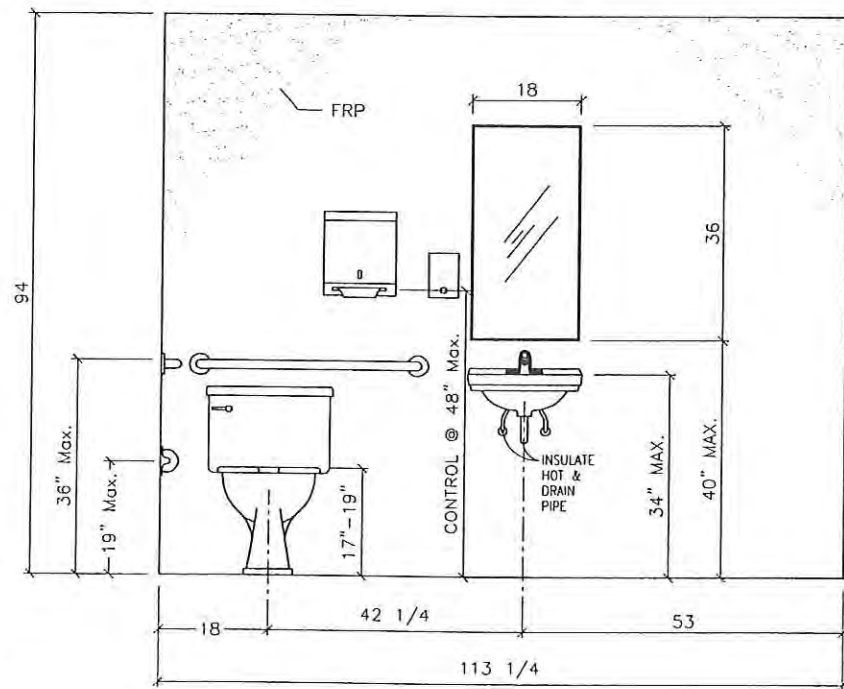
SHEET No.
A-5



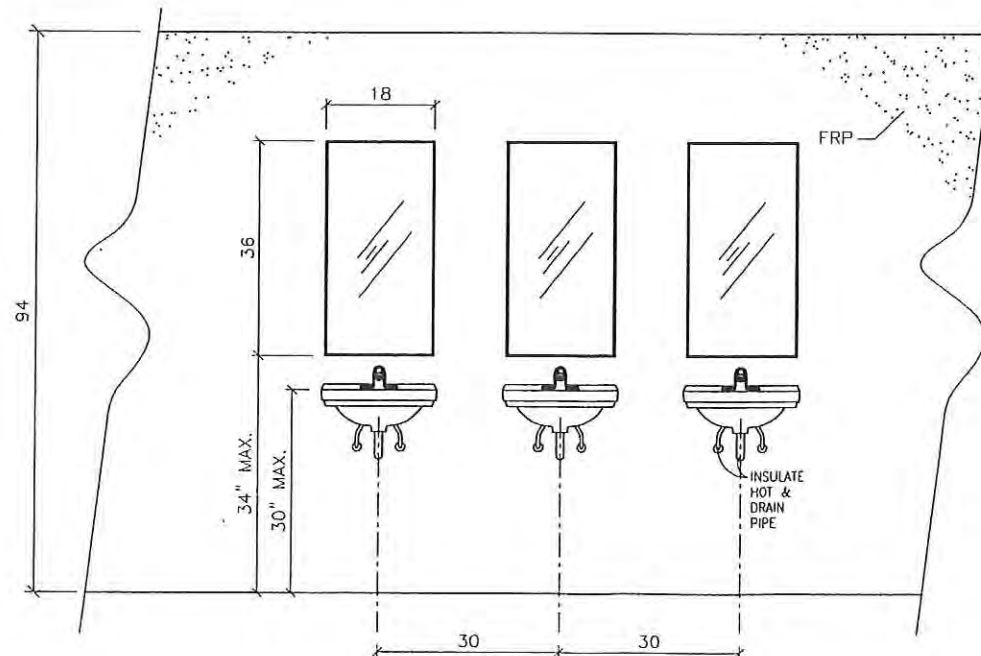
1 MEN'S RESTROOM
Scale: 3/8" = 1'-0"



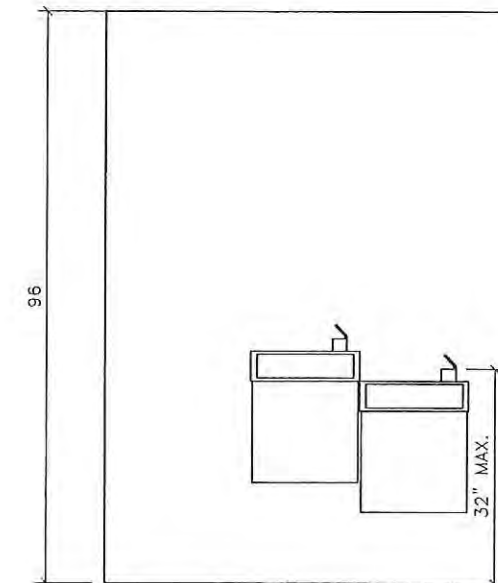
2 WOMEN'S RESTROOM
Scale: 3/8" = 1'-0"



3 STAFF RESTROOM
(MAY BE MIRRORED) Scale: 3/8" = 1'-0"



4 MEN'S & WOMEN'S RESTROOM
Scale: 3/8" = 1'-0"



3 DRINKING FOUNTAIN
(MAY BE MIRRORED) Scale: 3/8" = 1'-0"



No.	DESCRIPTION	BY	DATE

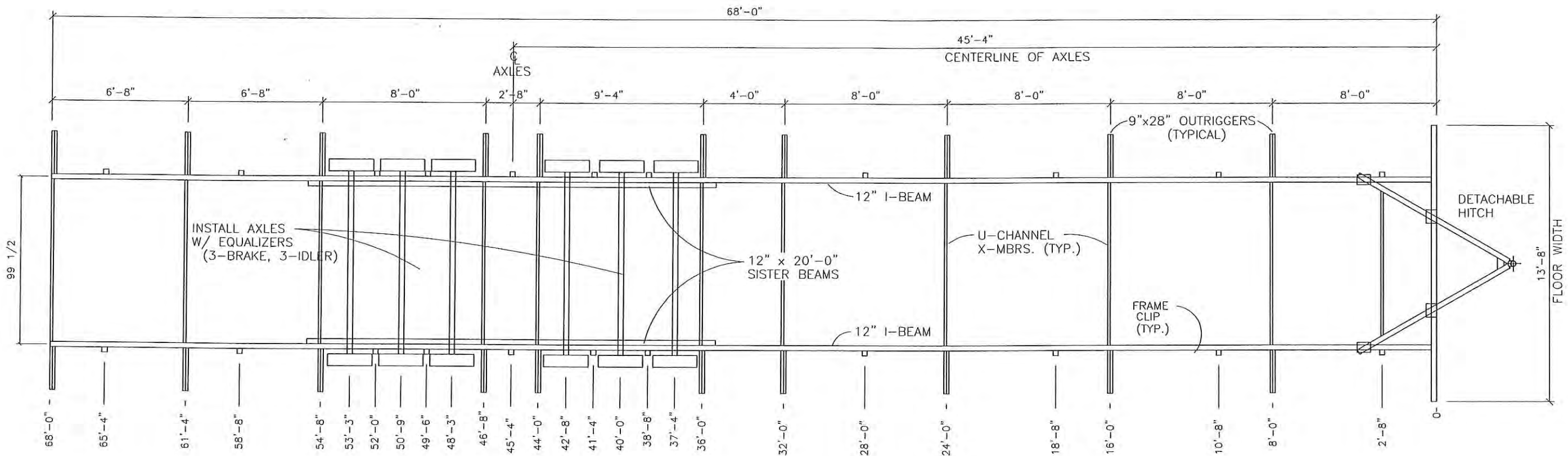
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CHECKED BY:	

RSD BUILDING "C"
NEW ORLEANS, LOUISIANA
INTERIOR ELEVATIONS
FILE: 68137RSD-C
SERIAL #: 2920-22

SHEET No.
A-5.1

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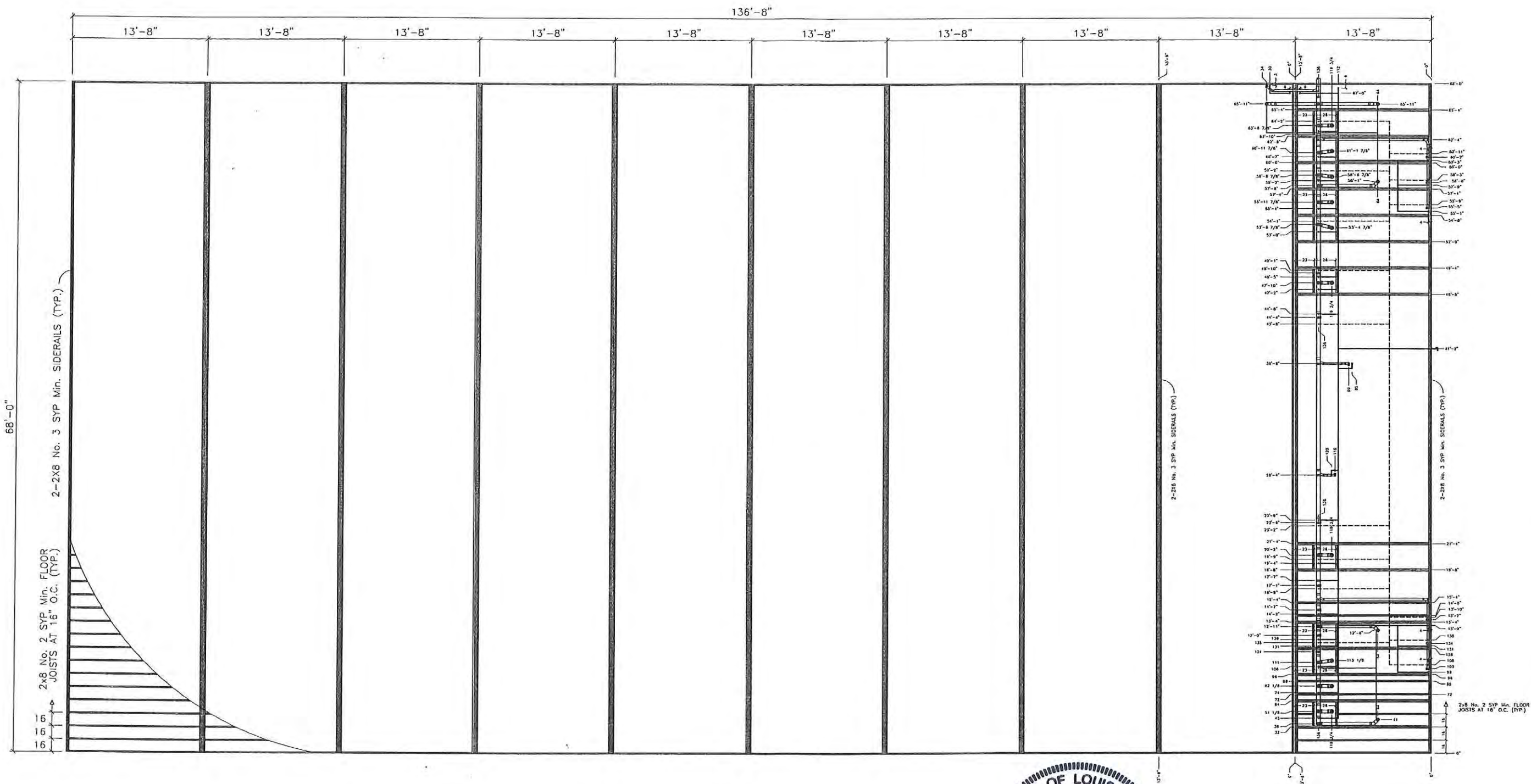


NOTES:
 FRONT CROSS-MEMBER IS FULL DEPTH I-BEAM (SAME AS CHASSIS)
 HITCH / COUPLER IS VENTURE OR EQUIVALENT 30,000# MIN. RATED
 TIRES ARE 8 x 14.5, 8-ply, 2805# MIN LOAD RATING
 FRAME PAINT IS EMULSION BASED.
 OUTRIGGERS AND U-CHANNEL CROSS-MEMBERS ARE 14 ga. MIN.



1 CHASSIS LAYOUT
 Scale: 3/16" = 1'-0"

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No.	DESCRIPTION	BY	DATE
DATE: 5/14/07 SCALE: 3/16" = 1'-0" PLOT SCALE: 1:1 DRAWN BY: B.S. CHECKED BY:	RSD BUILDING "C" NEW ORLEANS, LOUISIANA CHASSIS LAYOUT FILE: 68137RSD-C SERIAL #: 2920-22	SHEET No. S-2	



5/18/07

1

FLOOR FRAMING LAYOUT
Scale: 3/32" = 1'-0"

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PHONE: 318-387-2710

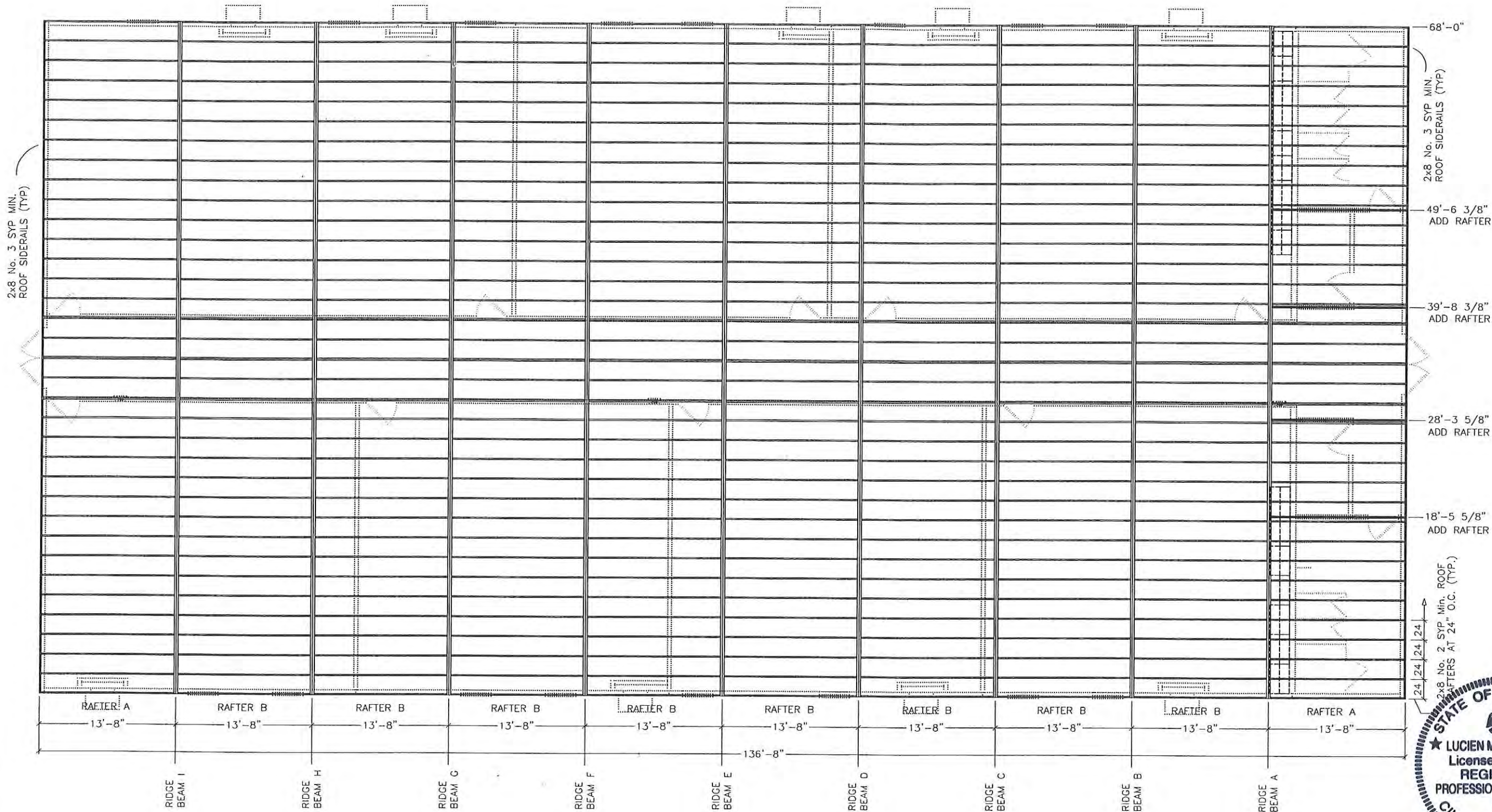
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No.	DESCRIPTION	BY	DATE

DATE: 5/4/07
SCALE: 3/32" = 1'-0"
PLOT SCALE: 1:1
DRAWN BY: B.S.
CHECKED BY:

RSD BUILDING "C"
NEW ORLEANS, LOUISIANA
FLOOR FRAMING LAYOUT
FILE: 68137RSD-C
SERIAL #: 2920-22

SHEET No.
S-3



1 ROOF FRAMING LAYOUT
Scale: 3/32" = 1'-0"

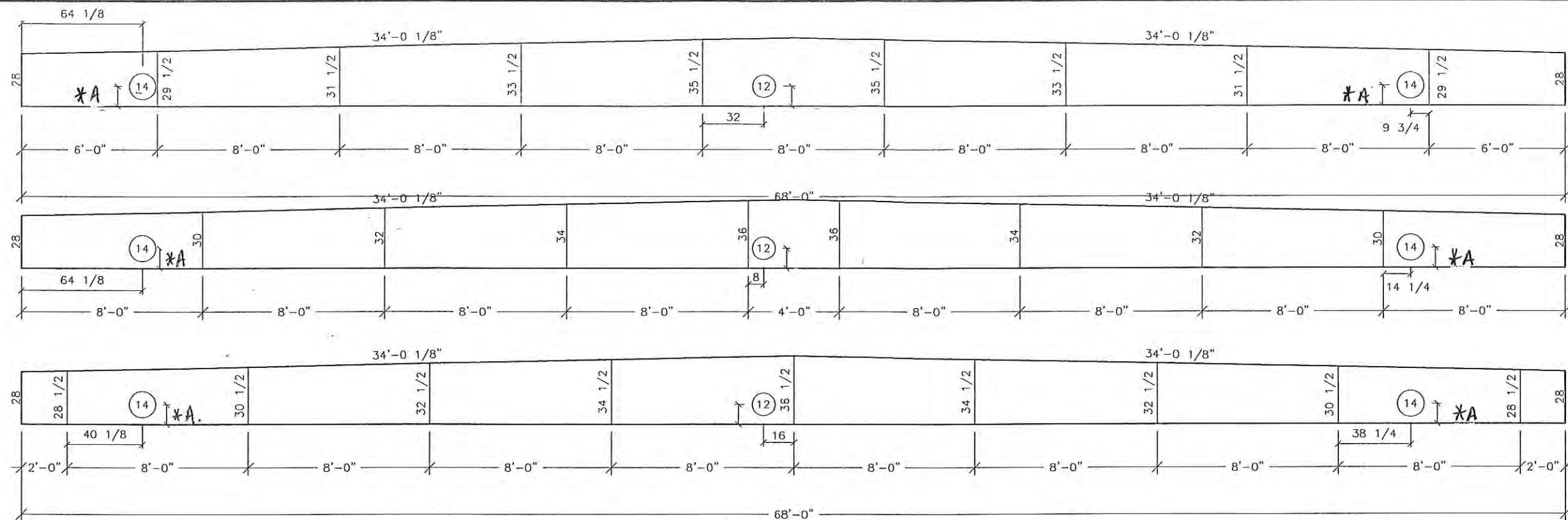


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SCALE: 3/32" = 1'-0"	
PLOT SCALE: 1:1	
DRAWN BY: PW	
CHECKED BY:	

DESCRIPTION	BY	DATE

RSD BUILDING "C"	
NEW ORLEANS, LOUISIANA	
ROOF FRAMING LAYOUT	
FILE: 68137RSD-C	
SERIAL #: 2920-22	

SHEET No.
S-4

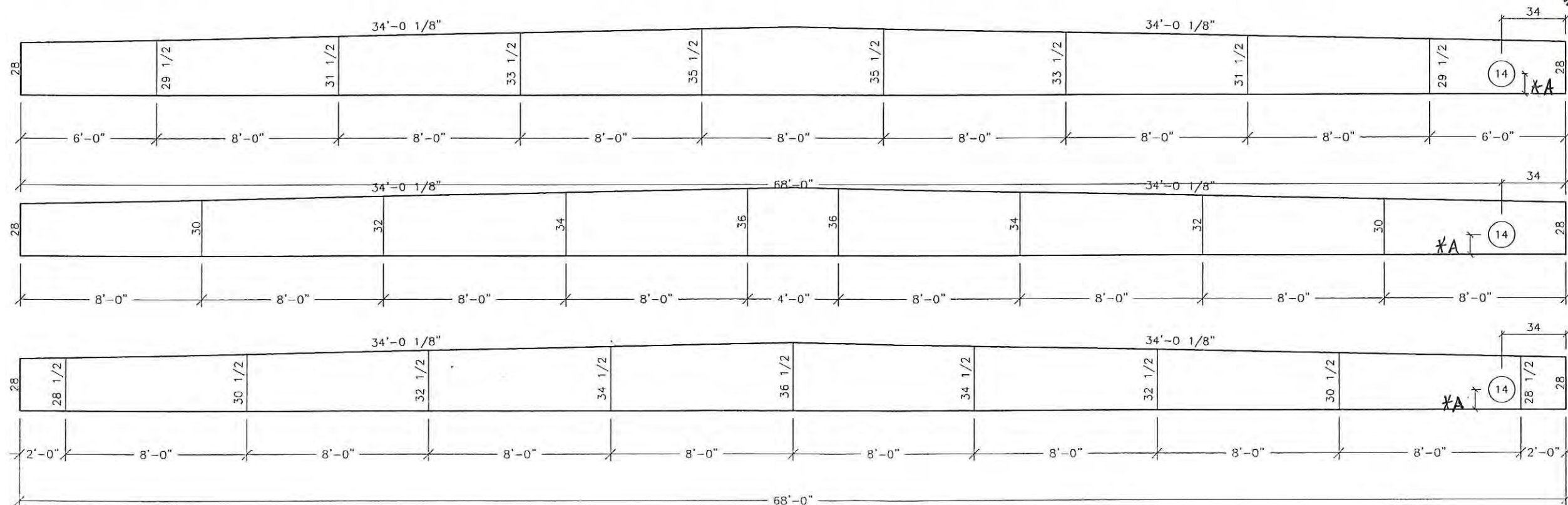


NOTES:

1. RIDGE BEAM CONSTRUCTION IS SAME FOR BOTH HALVES (MIRRORED)
2. RIDGE BEAM CONSTRUCTION SHALL BE IN ACCORDANCE WITH APA PLYWOOD DESIGN SPECIFICATION, SUPPLEMENT 5, AND SECTION 9 OF THE DESIGN MANUAL.
3. RIDGE BEAM IS CONSTRUCTED WITH 3/4", 5-PLY, 5-LAYER GROUP 1 SPECIES PLYWOOD.

1 RIDGE BEAM 'A'
Scale: 3/16" = 1'-0"

NOTE:
*A - ALL HOLES ARE TO BE CENTERED IN THE DEPTH OF THE BEAM.



2 RIDGE BEAM 'B'
Scale: 3/16" = 1'-0"

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PHONE: 518-387-2710

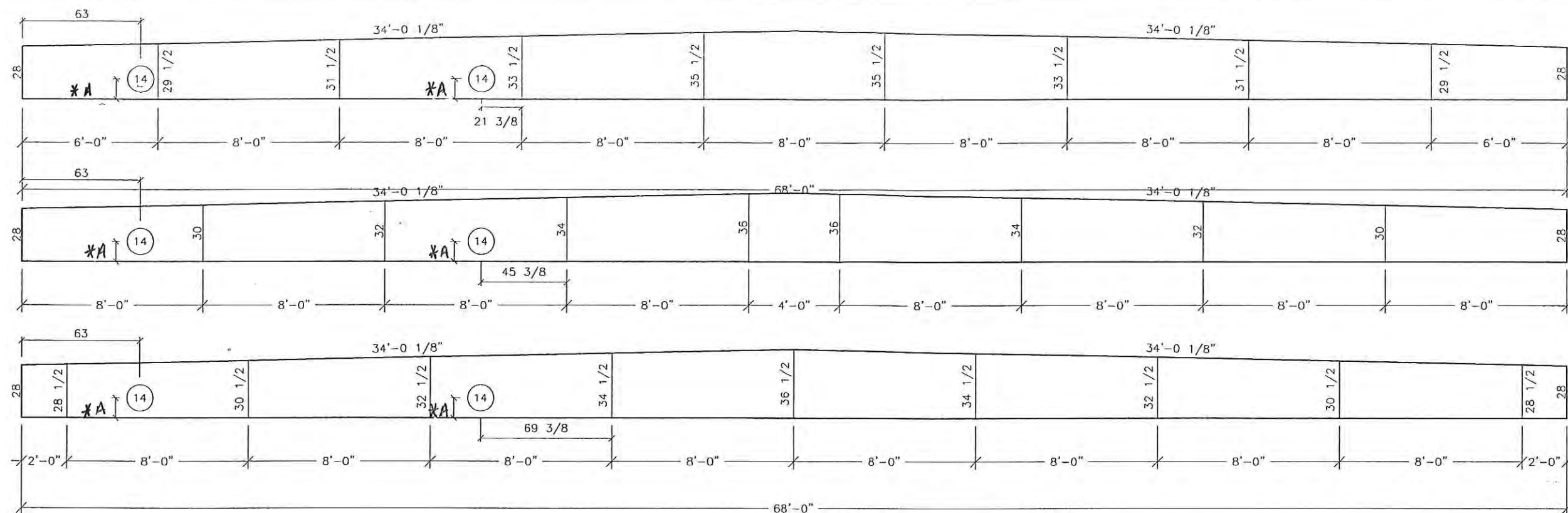
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DATE	BY	DESCRIPTION
5/4/07		
3/16" = 1'-0"		
1:1		
PW		
CHECKED BY:		

DATE:	5/4/07
SCALE:	3/16" = 1'-0"
PLOT SCALE:	1:1
DRAWN BY:	PW
CHECKED BY:	

RSD BUILDING "C"
NEW ORLEANS, LOUISIANA
RIDGE BEAM CONSTRUCTION
FILE: 68137RSD-C
SERIAL #: 2920-22

SHEET No.
S-6

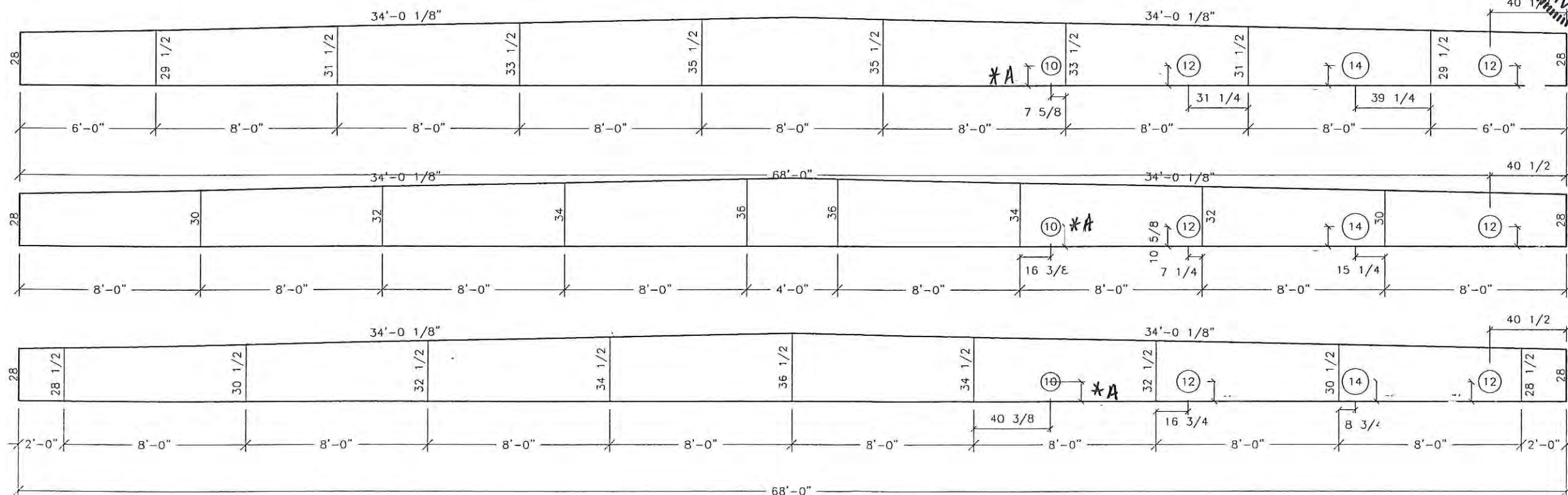


NOTES:

1. RIDGE BEAM CONSTRUCTION IS SAME FOR BOTH HALVES (MIRRORED)
2. RIDGE BEAM CONSTRUCTION SHALL BE IN ACCORDANCE WITH APA PLYWOOD DESIGN SPECIFICATION, SUPPLEMENT 5, AND SECTION 9 OF THE DESIGN MANUAL.
3. RIDGE BEAM IS CONSTRUCTED WITH 3/4", 5-PLY, 5-LAYER GROUP 1 SPECIES PLYWOOD.

3 RIDGE BEAM 'C'
Scale: 3/16" = 1'-0"

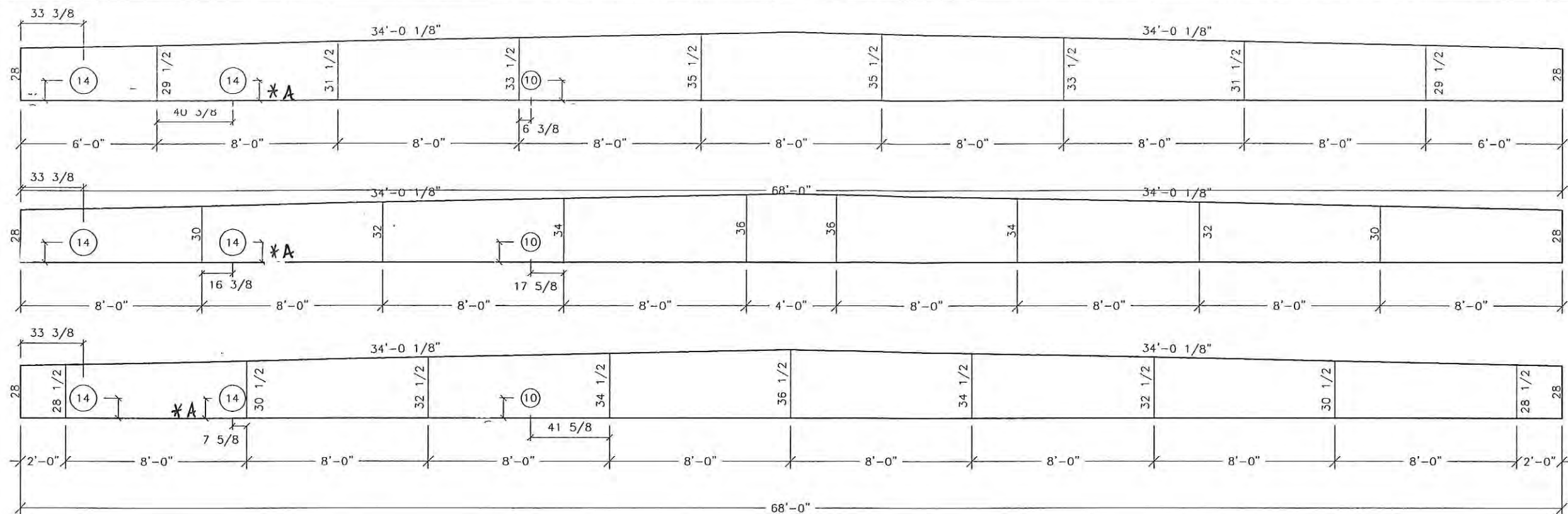
NOTE:
*A - ALL HOLES ARE TO BE CENTERED IN THE DEPTH OF THE BEAM.



4 RIDGE BEAM 'D'

[illegible]

DATE:	5/4/07
SCALE:	3/16" = 1'-0"
PLOT SCALE:	1:1
DRAWN BY:	PW
CHECKED BY:	



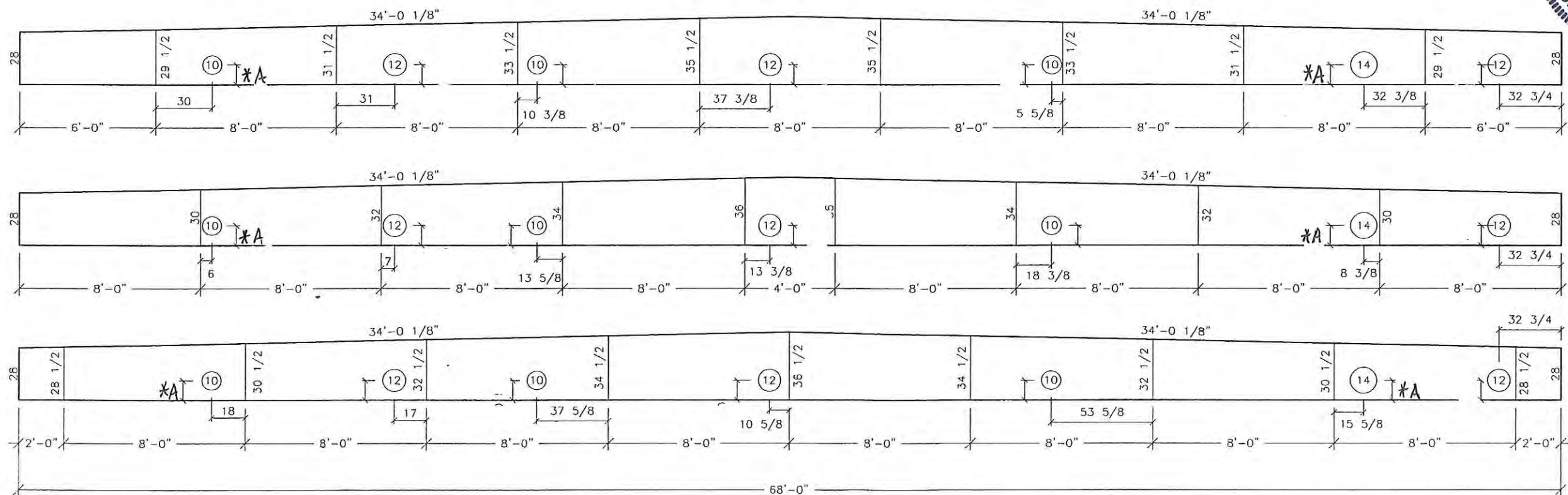
NOTES:

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3. RIDGE BEAM IS CONSTRUCTED WITH 3/4", 5-PLY, 5-LAYER GROUP 1 SPECIES PLYWOOD.

5 RIDGE BEAM 'E'
Scale: 3/16" = 1'-0"

NOTE:

*A - ALL HOLES ARE TO BE CENTERED IN THE DEPTH OF THE BEAM.



6 RIDGE BEAM 'F'
Scale: 3/16" = 1'-0"

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PHONE: 318-387-2710

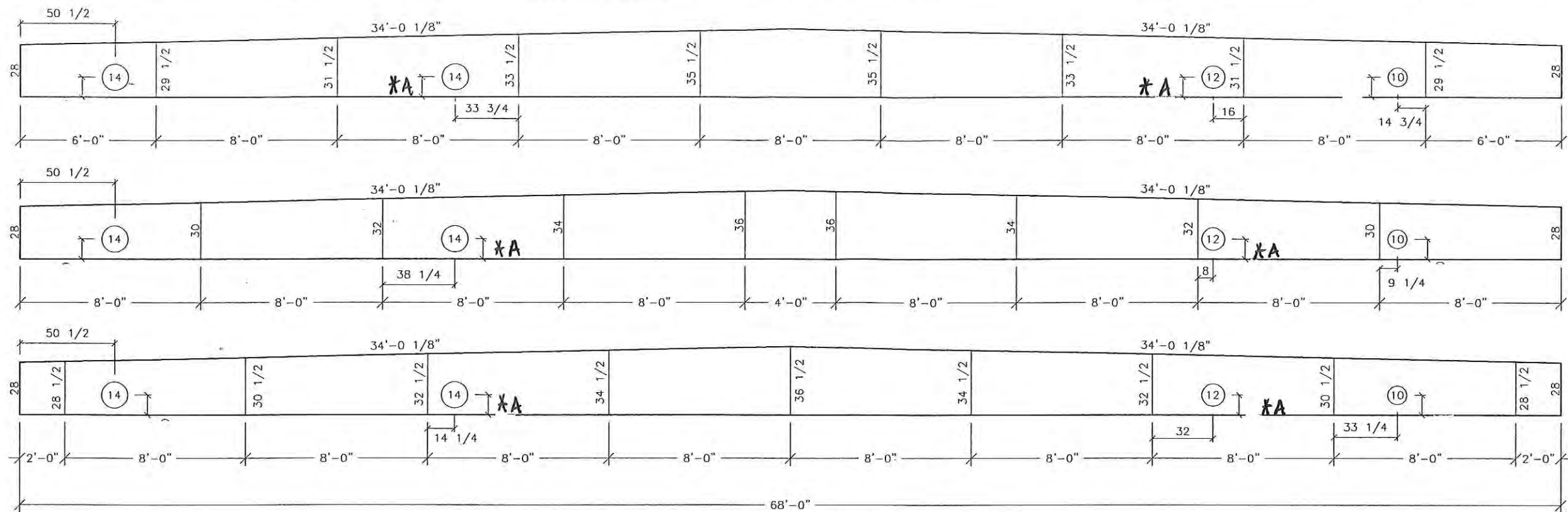
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No.	DESCRIPTION	BY	DATE

DATE:	5/4/07
SCALE:	3/16" = 1'-0"
PLOT SCALE:	1:1
DRAWN BY:	PW
CHECKED BY:	

RSD BUILDING "C"
NEW ORLEANS, LOUISIANA
RIDGE BEAM CONSTRUCTION
FILE: 68137RSD-C
SERIAL #: 2920-22

SHEET No.
S-6.2



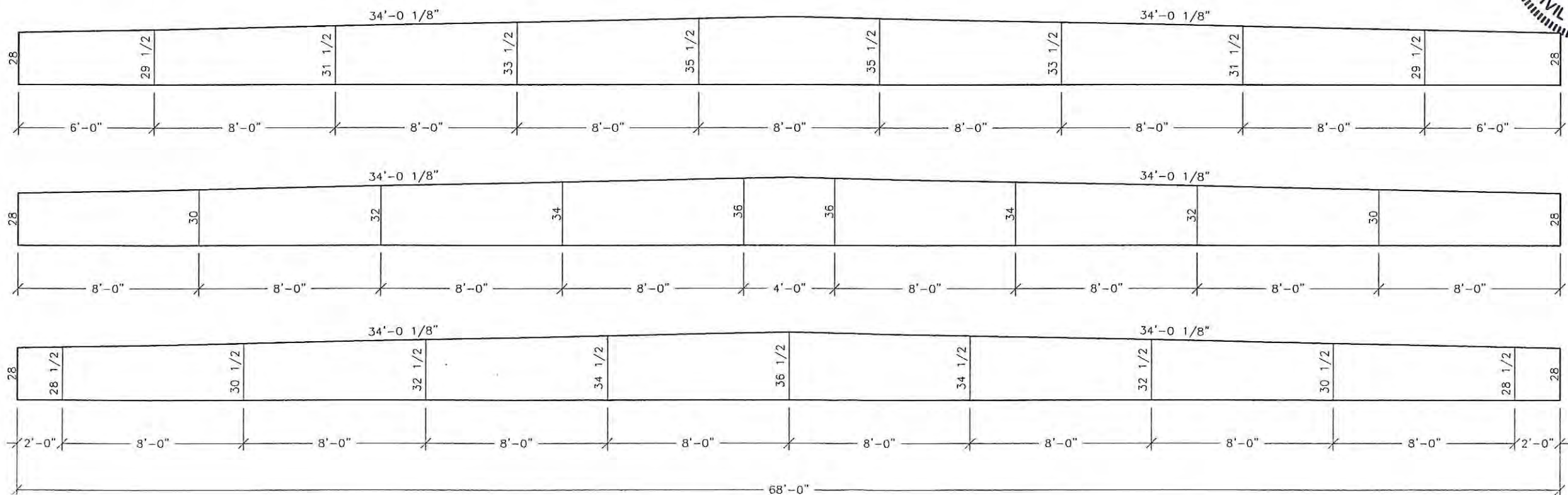
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2. RIDGE BEAM CONSTRUCTION SHALL BE IN ACCORDANCE WITH APA PLYWOOD DESIGN SPECIFICATION, SUPPLEMENT 5, AND SECTION 9 OF THE DESIGN MANUAL.
3. RIDGE BEAM IS CONSTRUCTED WITH 3/4", 5-PLY, 5-LAYER GROUP 1 SPECIES PLYWOOD.

7 RIDGE BEAM 'G'
Scale: 3/16" = 1'-0"

NOTE:

*A - ALL HOLES ARE TO BE CENTERED IN THE DEPTH OF THE BEAM.



8 RIDGE BEAM 'H'
Scale: 3/16" = 1'-0"

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WEST MONROE, LOUISIANA 71291
PHONE: 318-387-2710

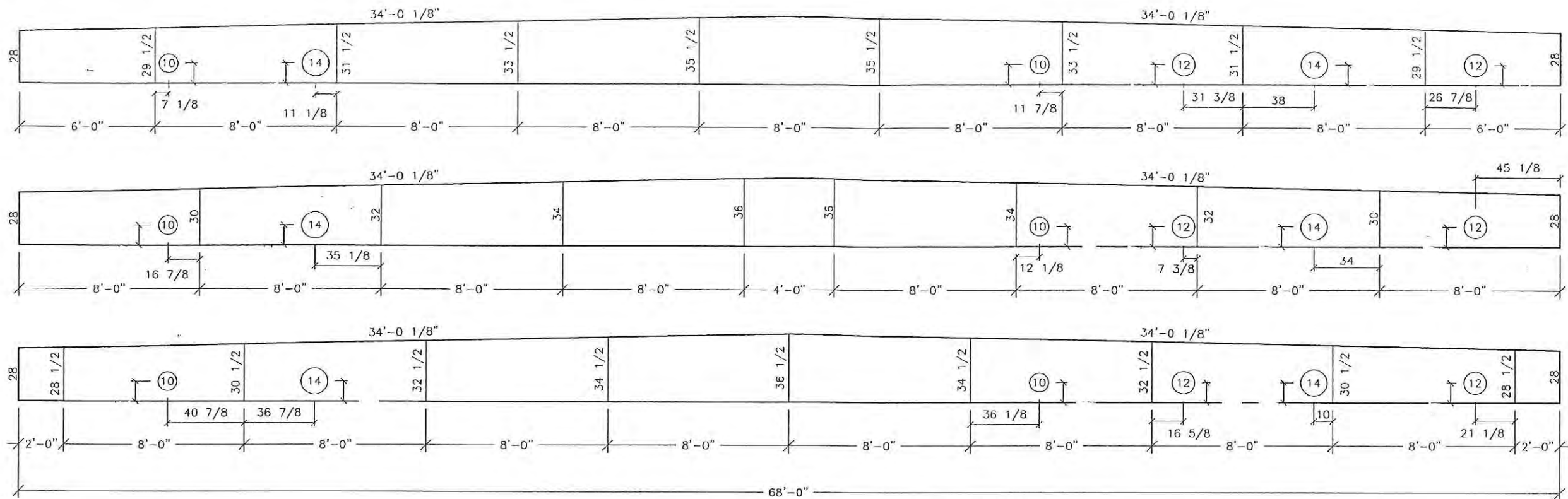
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505 N. BECKLEY AVE.
DESOUD, TEXAS 75115

No.	DESCRIPTION	BY	DATE

DATE:	5/4/07
SCALE:	3/16" = 1'-0"
PLOT SCALE:	1:1
DRAWN BY:	PW
CHECKED BY:	

RSD BUILDING "C"
NEW ORLEANS, LOUISIANA
RIDGE BEAM CONSTRUCTION
FILE: 68137RSD-C
SERIAL #: 2920-22

SHEET No.
S-6.3



- NOTES:
1. RIDGE BEAM CONSTRUCTION IS SAME FOR BOTH HALVES (MIRRORED)
 2. RIDGE BEAM CONSTRUCTION SHALL BE IN ACCORDANCE WITH APA PLYWOOD DESIGN SPECIFICATION, SUPPLEMENT 5, AND SECTION 9 OF THE DESIGN MANUAL.
 3. RIDGE BEAM IS CONSTRUCTED WITH 3/4", 5-PLY, 5-LAYER GROUP 1 SPECIES PLYWOOD.

9 RIDGE BEAM 'I'
Scale: 3/16" = 1'-0"

NOTE:
*A - ALL HOLES ARE TO BE CENTERED ALONG THE DEPTH OF THE BEAM.



No.	DESCRIPTION	BY	DATE

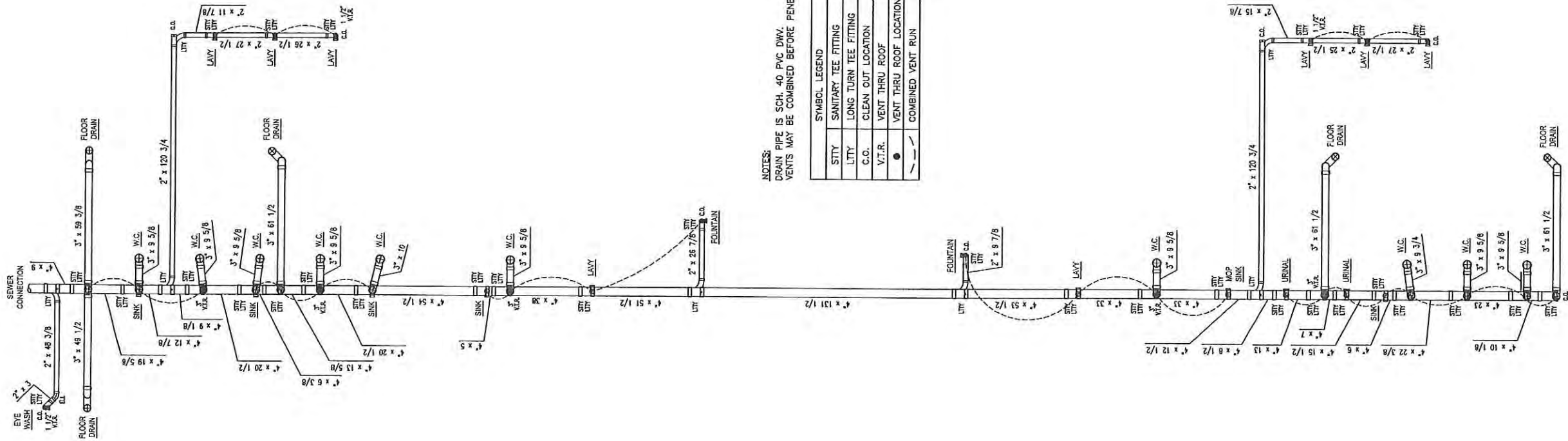
DATE:	5/4/07
SCALE:	3/16" = 1'-0"
PLOT SCALE:	1:1
DRAWN BY:	PW
CHECKED BY:	

RSD BUILDING "C"
NEW ORLEANS, LOUISIANA
RIDGE BEAM CONSTRUCTION
FILE: 68137RSD-C
SERIAL #: 2920-22

SHEET No.
S-6.4

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DESBORO, TEXAS 75115

LAZENBY & ASSOCIATES
CONSULTING ENGINEERS
2000 4TH STREET
WEST MONROE, LOUISIANA 71291
PHONE: 318-387-2710



NOTES:
DRAIN PIPE IS SCH. 40 PVC DWV.
VENTS MAY BE COMBINED BEFORE PENETRATING ROOF.

SYMBOL LEGEND	
STTY	SANITARY TEE FITTING
LITY	LONG TURN TEE FITTING
C.O.	CLEAN OUT LOCATION
VT.R.	VENT THRU ROOF
●	VENT THRU ROOF LOCATION
—	COMBINED VENT RUN



1 DRAIN, WASTE & VENT LAYOUT

Scale: 3/16" = 1'-0"

RSD BUILDING "C"
NEW ORLEANS, LOUISIANA
DRAIN, WASTE & VENT LAYOUT
FILE: 68137RSD-C
SERIAL #: 2920-22

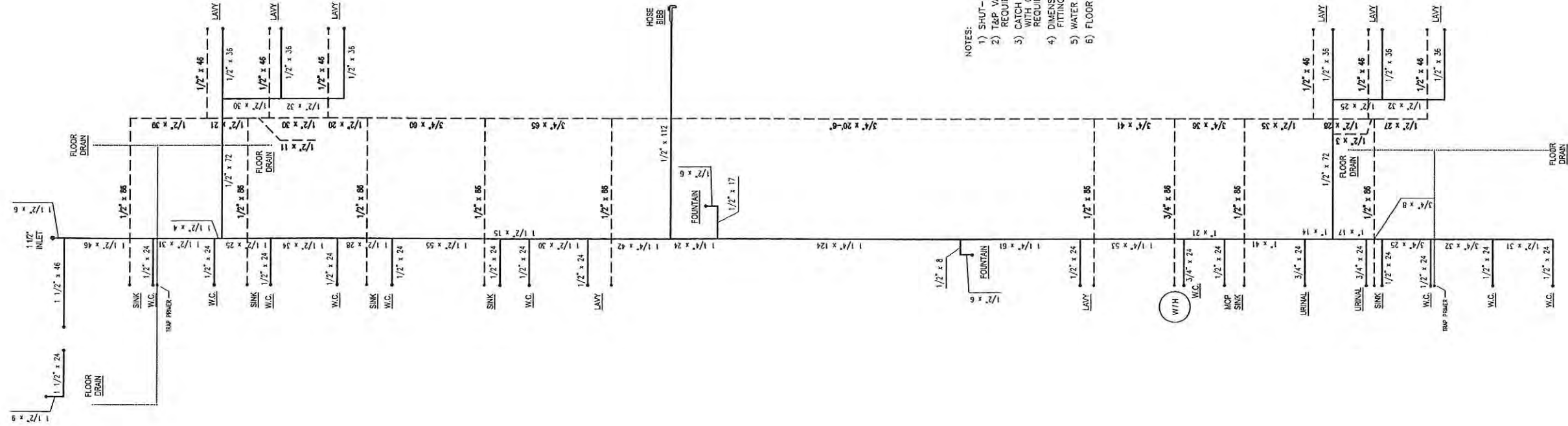
SHEET No.
M-1

DATE: 5/4/07
SCALE: 3/16" = 1'-0"
PLOT SCALE: 1:1
DRAWN BY: B.S.
CHECKED BY:

No.	DESCRIPTION	BY	DATE

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DESOIT, TEXAS 75115

Lazenby & Associates
CONSULTING ENGINEERS
2000 N. 7th STREET
WEST MONROE, LOUISIANA 71291
PHONE: 318-387-2710



- NOTES:
- 1) SHUT-OFF VALVES REQUIRED AT ALL FIXTURES.
 - 2) T&P VALVE AND 3/4" DIAMETER DRAIN TO EXTERIOR REQUIRED AT WATER HEATER.
 - 3) CATCH PAN AND ANTI-SIPHON DEVICE (IF NOT EQUIPPED WITH COLD WATER "DIP" TUBE WITH HOLE AT TOP) REQUIRED AT WATER HEATER.
 - 4) DIMENSIONS GIVEN ARE FROM FITTING CENTERLINE TO FITTING CENTERLINE.
 - 5) WATER SUPPLY LINES ARE TYPE "L" COPPER (NSF APPROVED).
 - 6) FLOOR DRAINS TO HAVE ACCESSIBLE TRAP PRIMERS.



1 WATER SUPPLY SYSTEM

Scale: 3/16" = 1'-0"

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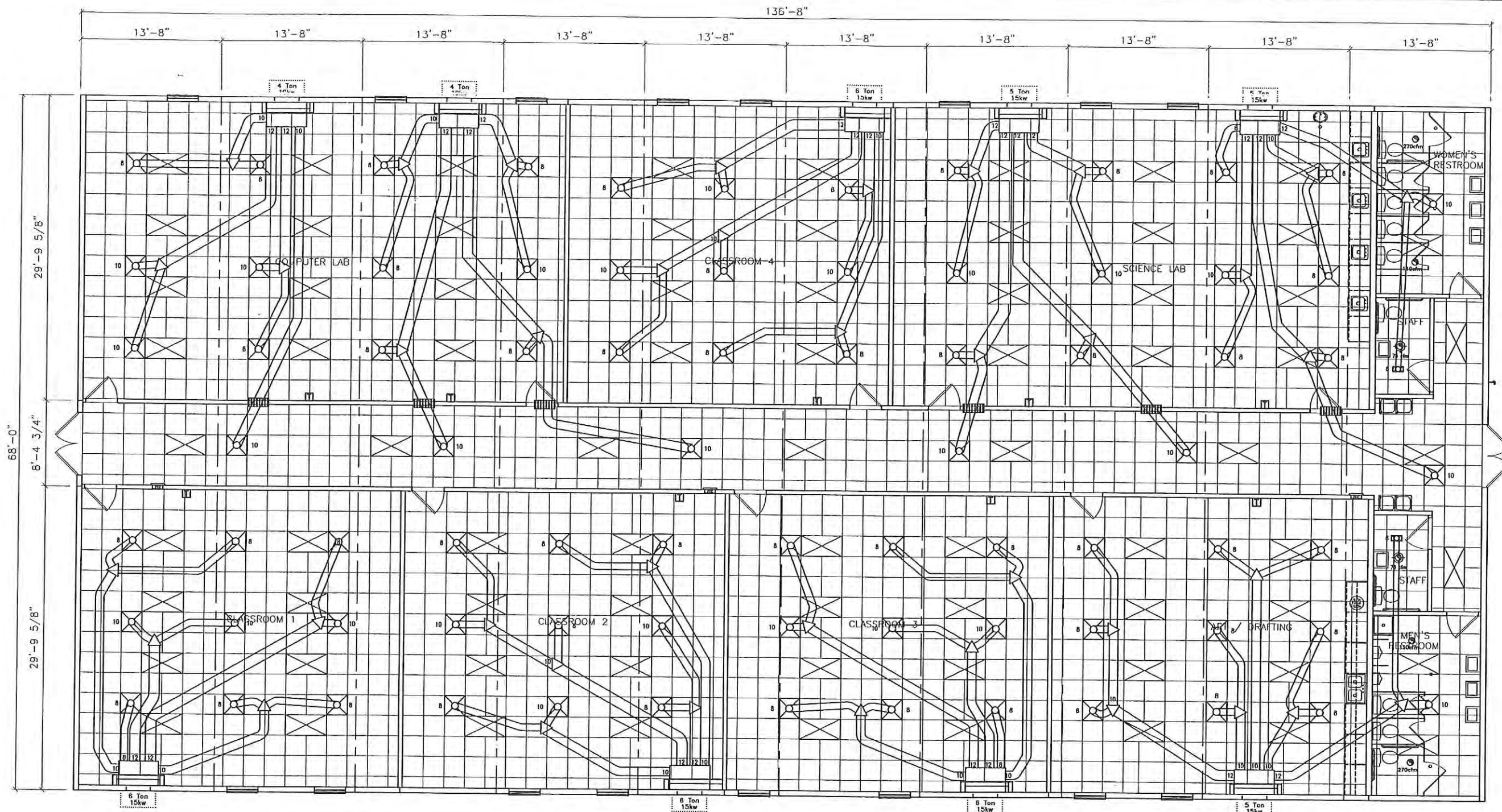
LAZENBY & ASSOCIATES
CONSULTING ENGINEERS
2000 W. 7th STREET
WEST MONROE, LOUISIANA 71291
PHONE: 318-387-2710

No.	DESCRIPTION	BY	DATE

DATE:	5/4/07
SCALE:	3/16" = 1'-0"
PLOT SCALE:	1:1
DRAWN BY:	B.S.
CHECKED BY:	

RSD BUILDING "C"
NEW ORLEANS, LOUISIANA
WATER SUPPLY SYSTEM
FILE: 68137RSD-C
SERIAL #: 2920-22

SHEET No.
M-2



SYMBOL LEGEND	
	24" x 48" FLUORESCENT RECESSED 4-TUBE LIGHT
	24" x 24" SUPPLY DIFFUSER
	6" x 12" SUPPLY REGISTER
	THERMOSTAT
	EXHAUST FAN
	EXHAUST FAN & LIGHT
	16" x 30" RETURN AIR GRILL THRU WALL
	AIR SUPPLY PLENUM BOX 58"(L) x 24"(W) x 12"(H)
	FIRE DAMPER AT DUCTING

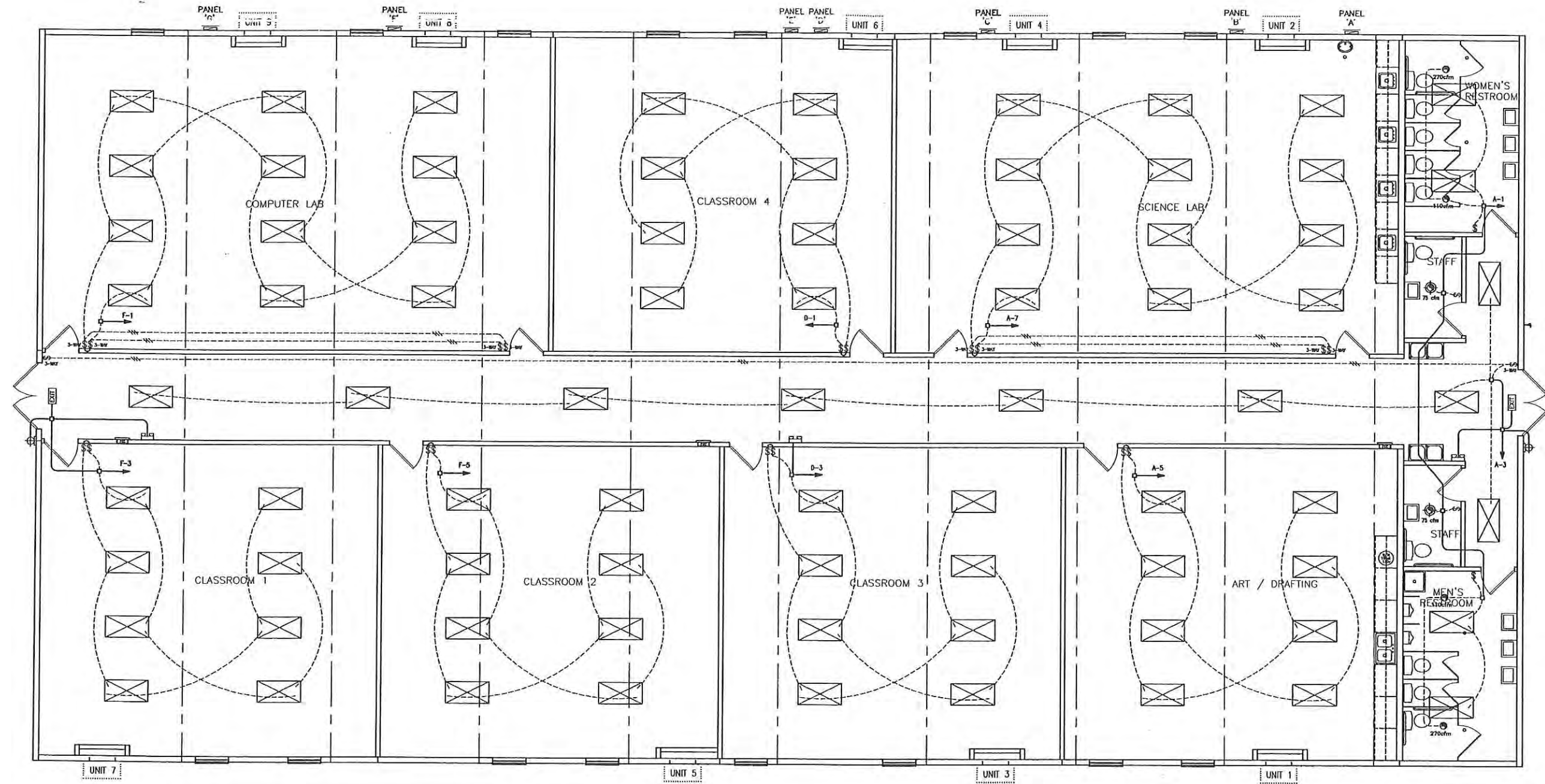
NOTE: DUCTING IS CLASS 1, U.L. 181 LISTED FIBERGLASS DUCTING



1 CEILING GRID / HVAC LAYOUT

Scale: 3/32" = 1'-0"

COMARK BUILDING SYSTEMS, INC. © 2007, COMARK BUILDING SYSTEMS, INC. All Rights Reserved. 506 N. BECKLEY AVE. BESSIE, TEXAS 75815		LAZENBY & ASSOCIATES CONSULTING ENGINEERS 2000 I. 7th STREET WEST MONROE, LOUISIANA 71291 PHONE: 338-387-2710	
DATE:	5/4/07	DESCRIPTION:	
SCALE:	3/32" = 1'-0"	BY:	
PLOT SCALE:	1:1	DATE:	
DRAWN BY:	PW	No.	
CHECKED BY:			
RSD BUILDING "C" NEW ORLEANS, LOUISIANA CEILING GRID / HVAC LAYOUT FILE: 68137RSD-C SERIAL #: 2920-22		SHEET No. M-3	



SYMBOL LEGEND	
	2x 4' RECESSED FLUORESCENT LIGHT
	INCANDESCENT RECESSED LIGHT
	EXTERIOR FLUORESCENT LIGHT (ON PHOTOCELL) W/BATTERY BACKUP
	SWITCH
	3-WAY SWITCH
	120v RECEPTACLE
	120v GFI RECEPTACLE
	120v GFI RECEPTACLE WEATHER PROOF
	DEDICATED QUAD RECEPTACLE
	PHONE STUB-IN
	THERMOSTAT
	INTERCOM AT 48" AFF
	EXHAUST FAN
	ELECTRICAL DISTRIBUTION PANEL
	EMERGENCY LIGHT W/ BATTERY BACKUP
	EXIT LIGHT W/ BATTERY BACKUP
	EXHAUST FAN & LIGHT
	BOX & CONDUIT WITH RECEPTACLE AT 80" AFF

NOTE:
 BUILDING IS: 120/240v 3-WIRE SINGLE PHASE
 ELECTRICAL CONDUIT: ELECTRICAL METALLIC TUBING & MC CABLE
 ELECTRICAL WIRING: MIN. #12 THHN COPPER WITH GROUND
 GROUNDING ON SITE: PER 2002 NEC ARTICLE 250-50



1

LIGHTING SCHEMATIC

Scale: 3/32" = 1'-0"

RSD BUILDING "C"
 NEW ORLEANS, LOUISIANA
 LIGHTING SCHEMATIC
 FILE: 68137RSD-C
 SERIAL #: 2920-22

SHEET No.

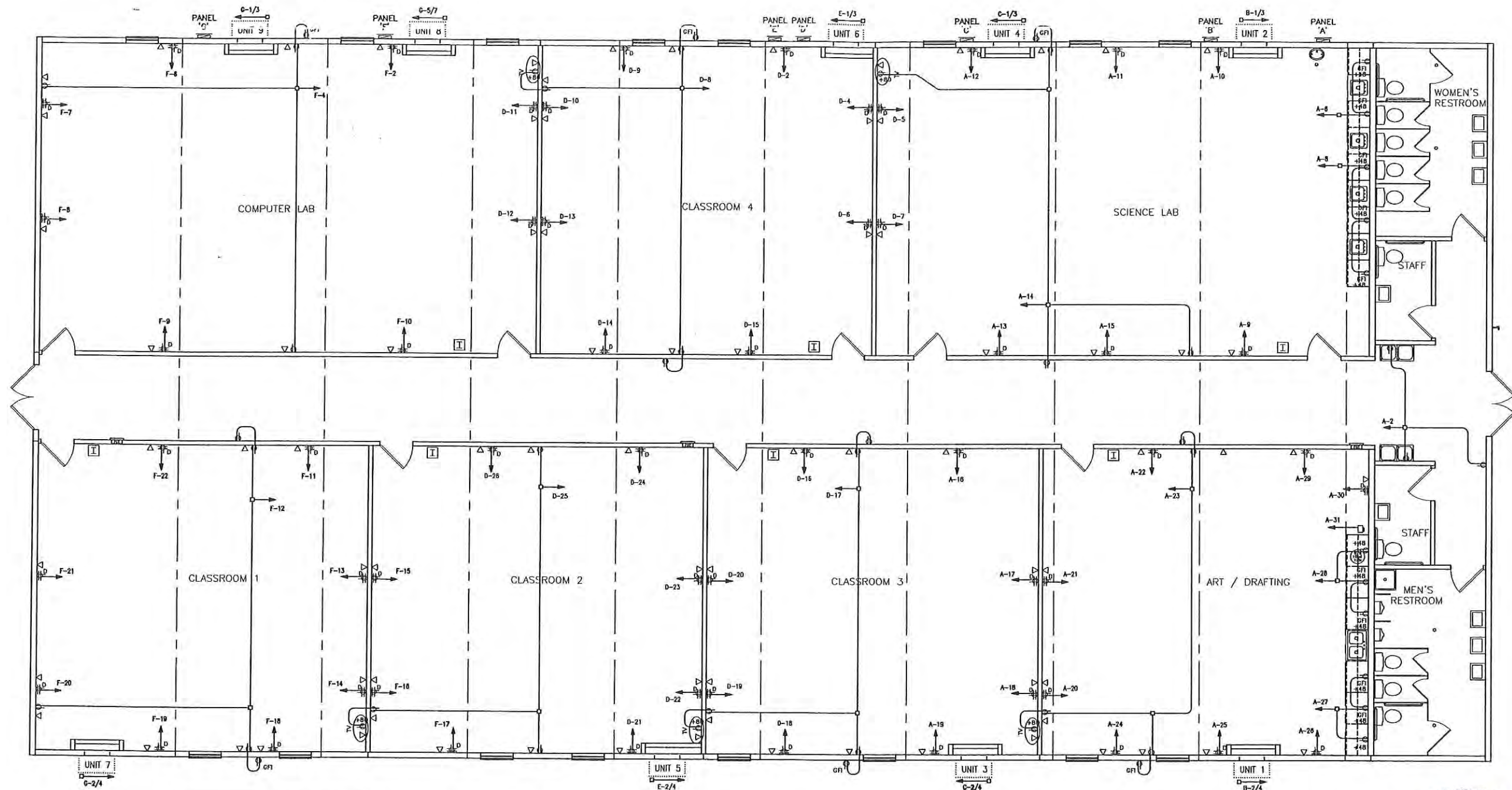
E-1

No.	DESCRIPTION	BY	DATE

DATE:	5/4/07
SCALE:	3/32" = 1'-0"
PLOT SCALE:	1:1
DRAWN BY:	B.S.
CHECKED BY:	

COMARK
 BUILDING SYSTEMS, INC.
 2000 N. 7th STREET
 WEST MONROE, LOUISIANA 71291
 PHONE: 338-387-2710

LAZENBY & ASSOCIATES
 CONSULTING ENGINEERS
 2000 N. 7th STREET
 WEST MONROE, LOUISIANA 71291
 PHONE: 338-387-2710



SYMBOL LEGEND	
	2x 4' RECESSED FLUORESCENT LIGHT
	INCANDESCENT RECESSED LIGHT
	EXTERIOR FLUORESCENT LIGHT (ON PHOTOCELL) W/BATTERY BACKUP
	SWITCH
	3-WAY SWITCH
	120v RECEPTACLE
	120v GFI RECEPTACLE
	120v GFI RECEPTACLE WEATHER PROOF
	DEDICATED QUAD RECEPTACLE
	PHONE STUB-IN
	THERMOSTAT
	INTERCOM AT 48" AFF
	EXHAUST FAN
	ELECTRICAL DISTRIBUTION PANEL
	EMERGENCY LIGHT W/ BATTERY BACKUP
	EXIT LIGHT W/ BATTERY BACKUP
	EXHAUST FAN & LIGHT
	BOX & CONDUIT WITH RECEPTACLE AT 80" AFF

NOTE:
BUILDING IS: 120/240v 3-WIRE SINGLE PHASE
ELECTRICAL CONDUIT: ELECTRICAL METALLIC TUBING & MC CABLE
ELECTRICAL WIRING: MIN. #12 THHN COPPER WITH GROUND
GROUNDING ON SITE: PER 2002 NEC ARTICLE 250-50

1 POWER DISTRIBUTION SCHEMATIC
Scale: 3/32" = 1'-0"



LAZENBY & ASSOCIATES
CONSULTING ENGINEERS
2000 N. 7th STREET
WEST MONROE, LOUISIANA 71291
PHONE: 318-387-2710

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505 N. BECKLEY AVE.
DESSO, TEXAS 75115

No.	DESCRIPTION	BY	DATE

DATE:	5/4/07
SCALE:	3/32" = 1'-0"
PLOT SCALE:	1:1
DRAWN BY:	B.S.
CHECKED BY:	

RSD BUILDING "C"
NEW ORLEANS, LOUISIANA
POWER DISTRIBUTION SCHEMATIC
FILE: 68137RSD-C
SERIAL #: 2920-22

SHEET No.
E-2

MIN WIRE SIZE		225 AMP 240v SINGLE PHASE MAIN BREAKER					PANEL A		MIN WIRE SIZE
12	LIGHTS- RESTROOMS	20	1	2	20	RECEPTS: ENTRY	12		
12	LIGHTS- CORRIDOR	20	3	4	20	ALARM PANEL	12		
12	LIGHTS- ART /DRAFTING	20	5	6	20	RECEPTS: SCIENCE LAB	12		
12	LIGHTS- SCIENCE LAB	20	7	8	20	RECEPTS: SCIENCE LAB	12		
12	DED. RECEPT SCIENCE LAB	20	9	10	20	DED. RECEPT SCIENCE LAB	12		
12	DED. RECEPT SCIENCE LAB	20	11	12	20	DED. RECEPT SCIENCE LAB	12		
12	DED. RECEPT SCIENCE LAB	20	13	14	20	RECEPTS: SCIENCE LAB	12		
12	DED. RECEPT SCIENCE LAB	20	15	16	20	DED. RECEPT CLASS 3	12		
12	DED. RECEPT CLASS 3	20	17	18	20	DED. RECEPT CLASS 3	12		
12	DED. RECEPT CLASS 3	20	19	20	20	DED. RECEPT ART	12		
12	DED. RECEPT ART	20	21	22	20	DED. RECEPT ART	12		
12	RECEPTS: ART	20	23	24	20	DED. RECEPT ART	12		
12	DED. RECEPT ART	20	25	26	20	DED. RECEPT ART	12		
12	RECEPTS: ART	20	27	28	20	RECEPTS: ART	12		
12	DED. RECEPT ART	20	29	30	20	DED. RECEPT ART	12		
10	WATER HEATER: ART	25	31	32					

GROUND BAR

NEUTRAL

WIRE SIZE OF:
Service Conductors: 4/0
Service Ground: 2

TOTAL PANEL LOAD:
Total Watts: 47407 watts
Voltage: 240 v
Total Amps: 197.53 amps

Total Watts: 47407
Total Amps: 197.53

MIN WIRE SIZE		225 AMP 240v SINGLE PHASE MAIN BREAKER		PANEL B		MIN WIRE SIZE	
3	5 TON / 15 kw HVAC UNIT #2	90	1	2	90	5 TON / 15 kw HVAC UNIT #1	3
		2P	3	4	2P		
			5	6			
			7	8			
			9	10			
			11	12			
			13	14			
			15	16			
			17	18			
			19	20			
			21	22			
			23	24			
			25	26			
			27	28			
			29	30			
			31	32			

GROUND BAR

NEUTRAL

WIRE SIZE OF:
Service Conductors: 4/0
Service Ground: 2

TOTAL PANEL LOAD:
Total Watts: 40800 watts
Voltage: 240 v
Total Amps: 170.00 amps

Total Watts: 40800
Total Amps: 170.00

MIN WIRE SIZE		225 AMP 240v SINGLE PHASE MAIN BREAKER		PANEL C		MIN WIRE SIZE	
3	5 TON / 15 kw HVAC UNIT #4	90	1 2	90	6 TON / 15 kw HVAC UNIT #3	3	
		2P	3 4	2P			
			5 6				
			7 8				
			9 10				
			11 12				
			13 14				
			15 16				
			17 18				
			19 20				
			21 22				
			23 24				
			25 26				
			27 28				
			29 30				
			31 32				

STATE OF LOUISIANA



★

LUCIEN MAX LARCHE ★
License No. 31034
REGISTERED
PROFESSIONAL ENGINEER

CH. ENGINEER
IN



GROUND BAR

NEUTRAL

WIRE SIZE OF:
Service Conductors: 4/0
Service Ground: 2

TOTAL PANEL LOAD:
Total Watts: 40800 watts
Voltage: 240 v
Total Amps: 170.00 amps

Total Watts: 40800
Total Amps: 170.00

MIN WIRE SIZE		225 AMP 240v SINGLE PHASE MAIN BREAKER				PANEL D		MIN WIRE SIZE	
12	LIGHTS: CLASS 4	20	1	2	20	DED. RECEPT CLASS 4		12	
12	LIGHTS: CLASS 3	20	3	4	20	DED. RECEPT CLASS 4		12	
12	DED. RECEPT CLASS 4	20	5	6	20	DED. RECEPT CLASS 4		12	
12	DED. RECEPT CLASS 4	20	7	8	20	RECEPTS: CLASS 4		12	
12	DED. RECEPT CLASS 4	20	9	10	20	DED. RECEPT CLASS 4		12	
12	DED. RECEPT COMP LAB	20	11	12	20	DED. RECEPT COMP LAB		12	
12	DED. RECEPT CLASS 4	20	13	14	20	DED. RECEPT CLASS 4		12	
12	DED. RECEPT CLASS 4	20	15	16	20	DED. RECEPT CLASS 3		12	
12	RECEPTS: CLASS 3	20	17	18	20	DED. RECEPT CLASS 3		12	
12	DED. RECEPT CLASS 3	20	19	20	20	DED. RECEPT CLASS 3		12	
12	DED. RECEPT CLASS 2	20	21	22	20	DED. RECEPT CLASS 2		12	
12	DED. RECEPT CLASS 2	20	23	24	20	DED. RECEPT CLASS 2		12	
12	RECEPTS: CLASS 2	20	25	26	20	DED. RECEPT CLASS 2		12	
			27	28					
			29	30					
			31	32					

GROUND BAR

NEUTRAL

WIRE SIZE OF:
Service Conductors: 4/0
Service Ground: 2

TOTAL PANEL LOAD:
Total Watts: 45454 watts
Voltage: 240 v
Total Amps: 189.39 amps

Total Watts: 45454
Total Amps: 189.39

240 v		LOAD CALC:		225 AMP	
QTY	ITEM	WATTS	TOTAL		
33	Fluorescent T-8's	x	112	4620	watts
0	Incandescent Light	x	75	0	watts
1	Ext. Fluorescent Light	x	13	16	watts
2	Exhaust Fan & Light	x	216	540	watts
2	Exhaust Fan 110 cfm	x	156	390	watts
2	Exhaust Fan 270 cfm	x	204	510	watts
23	Recept Duplex	x	180	4140	watts
18	Recept Dedicated	x	1920	34560	watts
1	Water Heater (120v)	x	1650	1650	watts
2	Water Cooler	x	410	820	watts
0	Res. Freezer	x	840	0	watts
1	Alarm Panel	x	144	144	watts
1	Emergency Light	x	14.4	14	watts
1	Exit Sign	x	2.8	2.8	watts
0	Bar 5Ton / 15kw (240v)	x	20400	0	watts
0	Bar 6Ton / 15kw (240v)	x	20400	0	watts

LOAD CALC:		225 AMP	
QTY	ITEM	WATTS	TOTAL
0	0 Fluorescent T-8's	x 112	0 watts
0	0 Incandescent Light	x 75	0 watts
0	0 Ext. Fluorescent Light	x 13	0 watts
0	0 Exhaust Fan & Light	x 216	0 watts
0	0 Exhaust Fan 110 cfm	x 156	0 watts
0	0 Exhaust Fan 270 cfm	x 204	0 watts
0	0 Recept Duplex	x 180	0 watts
0	0 Recept Dedicated	x 1920	0 watts
0	0 Water Heater (120v)	x 1650	0 watts
0	0 Res. Refrigerator	x 840	0 watts
0	0 Water Cooler	x 410	0 watts
0	0 Alarm Panel	x 144	0 watts
0	0 Emergency Light	x 14.4	0 watts
0	0 Exit Sign	x 2.8	0 watts
1	1 Bard 5Ton / 15kw (240v)	x 20400	20400 watts
1	1 Bard 6Ton / 15kw (240v)	x 20400	20400 watts

Total Watts: 40800
Total Amps: 170.00

240 v		LOAD CALC:		225 AMP			
QTY	ITEM	WATTS	TOTAL	QTY	ITEM	WATTS	TOTAL
16	Fluorescent T-8's	x	112	2240	watts		
0	Incandescent Light	x	75	0	watts		
0	Ext. Fluorescent Light	x	13	0	watts		
0	Exhaust Fan & Light	x	216	0	watts		
0	Exhaust Fan 110 cfm	x	156	0	watts		
0	Exhaust Fan 270 cfm	x	204	0	watts		
16	Recept Duplex	x	180	2880	watts		
21	Recept Dedicated	x	1920	40320	watts		
0	Water Heater (120v)	x	1650	0	watts		
0	Res. Refrigerator	x	840	0	watts		
0	Water Cooler	x	410	0	watts		
0	Alarm Panel	x	144	0	watts		
1	Emergency Light	x	14.4	14.4	watts		
0	Exit Sign	x	2.8	2.8	watts		
0	Bar 5Ton / 15kw (240v)	x	20400	0	watts		
0	Bar 6Ton / 15kw (240v)	x	20400	0	watts		

Total Watts: 45454
Total Amps: 189.39

SHEET No. **E-3**

RD BUILDING "C"
NEW ORLEANS, LOUISIANA
ELECTRICAL LOAD CALCULATIONS
FILE: 68137RSD-C
SERIAL #: 2520-22

DATE: 5/4/07
SCALE: N.T.S.
PLOT SCALE: 1:1
DRAWN BY: B.S.
CHECKED BY:

No. DESCRIPTION BY DATE

COMARK
CONSULTING ENGINEERS, INC.
2000 N. 7th STREET
WEST MONROE, LOUISIANA 71291
PHONE: 318-387-2710

LAYENBY & ASSOCIATES
CONSULTING ENGINEERS
2000 N. 7th STREET
WEST MONROE, LOUISIANA 71291
PHONE: 318-387-2710

MIN WIRE SIZE	225 AMP 240v SINGLE PHASE MAIN BREAKER	PANEL E				225 AMP	
		90	1	2	3	WATTS	TOTAL
3	6 TON / 15 kw HVAC UNIT #5	2P	3	4	2P	112	0 watts
			5	6		75	0 watts
			7	8		13	0 watts
			9	10		216	0 watts
			11	12		156	0 watts
			13	14		204	0 watts
			15	16		180	0 watts
			17	18		1920	0 watts
			19	20		1650	0 watts
			21	22		840	0 watts
			23	24		410	0 watts
			25	26		144	0 watts
			27	28		14.4	0 watts
			29	30		2.8	0 watts
			31	32		20400	0 watts
						20400	40800 watts

GROUND BAR

NEUTRAL

WIRE SIZE OF:
Service Conductors: 4/0
Service Ground: 2

TOTAL PANEL LOAD:
Total Watts: 40800 watts
Voltage: 240 v
Total Amps: 170.00 amps

MIN WIRE SIZE	225 AMP 240v SINGLE PHASE MAIN BREAKER	PANEL F				225 AMP	
		20	1	2	3	WATTS	TOTAL
12	LIGHTS: COMPUTER LAB	20	1	2	20	112	3920 watts
12	LIGHTS: CLASS 1	20	3	4	20	75	0 watts
12	LIGHTS: CLASS 2	20	5	6	20	13	16 watts
12	DED. RECEPT COMP. LAB	20	7	8	20	216	0 watts
12	DED. RECEPT COMP. LAB	20	9	10	20	156	0 watts
12	DED. RECEPT CLASS 1	20	11	12	20	204	0 watts
12	DED. RECEPT CLASS 1	20	13	14	20	180	1620 watts
12	DED. RECEPT CLASS 2	20	15	16	20	1920	32640 watts
12	DED. RECEPT CLASS 2	20	17	18	20	1650	0 watts
12	DED. RECEPT CLASS 1	20	19	20	20	840	0 watts
12	DED. RECEPT CLASS 1	20	21	22	20	410	0 watts
			23	24		144	0 watts
			25	26		14.4	0 watts
			27	28		2.8	0 watts
			29	30		20400	0 watts
			31	32		20400	0 watts

GROUND BAR

NEUTRAL

WIRE SIZE OF:
Service Conductors: 4/0
Service Ground: 2

TOTAL PANEL LOAD:
Total Watts: 38213 watts
Voltage: 240 v
Total Amps: 159.22 amps

MIN WIRE SIZE	225 AMP 240v SINGLE PHASE MAIN BREAKER	PANEL G				225 AMP	
		60	1	2	3	WATTS	TOTAL
6	4 TON / 10 kw HVAC UNIT #9	2P	3	4	2P	112	0 watts
6	4 TON / 10 kw HVAC UNIT #8	2P	5	6		75	0 watts
			7	8		13	0 watts
			9	10		216	0 watts
			11	12		156	0 watts
			13	14		204	0 watts
			15	16		180	0 watts
			17	18		1920	0 watts
			19	20		1650	0 watts
			21	22		840	0 watts
			23	24		410	0 watts
			25	26		144	0 watts
			27	28		14.4	0 watts
			29	30		2.8	0 watts
			31	32		14160	28320 watts
						20400	20400 watts

GROUND BAR

NEUTRAL

WIRE SIZE OF:
Service Conductors: 4/0
Service Ground: 2

TOTAL PANEL LOAD:
Total Watts: 48720 watts
Voltage: 240 v
Total Amps: 203.00 amps

TOTAL BUILDING LOAD

PANEL 'A' TOTAL LOAD = 197.53 amps
PANEL 'B' TOTAL LOAD = 170.00 amps
PANEL 'C' TOTAL LOAD = 170.00 amps
PANEL 'D' TOTAL LOAD = 189.39 amps
PANEL 'E' TOTAL LOAD = 170.00 amps
PANEL 'F' TOTAL LOAD = 159.22 amps
PANEL 'G' TOTAL LOAD = 203.00 amps
TOTAL = 1259.15 amps



SHEET No. E-3.1	RSD BUILDING "C" NEW ORLEANS, LOUISIANA ELECTRICAL LOAD CALCULATIONS FILE: 68137RSD-C SERIAL #: 2920-22	DATE: 5/18/07 SCALE: N.T.S. PLOT SCALE: 1"=1' DRAWN BY: B.S. CHECKED BY:	No. DESCRIPTION BY DATE	 COMARK CONSULTING ENGINEERS 2000 N. 7th STREET WEST MONROE, LOUISIANA 71291 PHONE: 337-387-2710	LAZENBY & ASSOCIATES CONSULTING ENGINEERS 2000 N. 7th STREET WEST MONROE, LOUISIANA 71291 PHONE: 337-387-2710