

DESIGN LOADS	
1. BUILDING CODE	2014 FLORIDA BUILDING CODE
A. BUILDING CODE	
2. GRAVITY LOADS	
A. REFER TO MANUFACTURER'S RATED LOADS.	
3. LATERAL LOADS	
A. SEISMIC LOADS	
1. 5% DAMPED SPECTRAL RESPONSE COEFF (S _{DS})	0.084 g
2. 1-SEC PERIOD SPECTRAL RESPONSE COEFF (S _{DS1})	0.092 g
3. SEISMIC DESIGN CATEGORY	A
4. SEISMIC SITE CLASS	D
5. NON-BUILDING STRUCTURAL SYSTEM AND SEISMIC RESISTING SYSTEM	STEEL STORAGE RACKS
6. RESPONSE MODIFICATION FACTOR (R)	4.0
7. OVERSTRENGTH FACTOR (Ω _o)	2.0
8. IMPORTANCE FACTOR (I _b)	
9. SALES FLOOR AREAS	1.5 (PUBLIC ACCESS AREA)
10. NO PUBLIC ACCESS	1.0 (NO PUBLIC ACCESS)
11. ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE
12. DESIGN BASE SHEAR (PER 2009 IBC)	
13. SALES FLOOR RACKS	0.03W (PUBLIC ACCESS AREA)
14. STORAGE AREA RACKS	0.021W (NO PUBLIC ACCESS)

GENERAL NOTES

1.0 GENERAL

1.1 ALL FIXTURES SHALL BE DESIGNED TO MEET ALL BUILDING CODE REQUIREMENTS INCLUDING SECTION 2009.1 OF THE 2014 FBC

1.2 JOHNSTON BURKHOLDER ASSOCIATES HAS DESIGNED THE BASE ANCHORAGE FOR THE FIXTURES SHOWN ON THIS INSTALLATION DRAWING TO RESIST DESIGN SEISMIC LATERAL FORCES FOR THE BUILDING CODES NOTED IN THE "DESIGN LOADS" TABLE ON THIS SHEET. INSTALLATION OF THE FIXTURES SHALL MEET THE LAYOUT SHOWN ON THE FIXTURE LAYOUT PLAN, PROVIDED BY OWNER.

2.0 SLAB AND FOUNDATION

2.1 SLAB ON GRADE TO HAVE A MINIMUM OF 3,500 PSI COMPRESSIVE STRENGTH.

2.2 THE SLAB ON GRADE TO BE A MINIMUM OF 4 INCHES THICK, UNREINFORCED AND PLACED OVER A MINIMUM OF 4 INCHES OF DRAINAGE FILL.

2.3 THE SLAB ON GRADE IS DESIGNED TO BEAR ON A NET SOIL BEARING CAPACITY OF 1500 PSF MINIMUM.

3.0 MATERIAL FOR RACKS AND ANCHORAGE

3.1 ALL ANCHORS TO THE SLAB SHALL BE AS NOTED ON THESE PLANS

3.2 OWNER IS TO PROVIDE MAINTENANCE PER RMI 1.4.1

3.3 RACK INSTALLER SHALL OBTAIN OUT-OF-PLUMB INSTALLATION TOLERANCE FROM FIXTURE SUPPLIER PRIOR TO INSTALLATION - RMI 3008, SECTION 1.4.1.1

3.4 NO FIELD WELDING IS PERMITTED. ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS, IN AN APPROVED SHOP. USE E70X WELD RODS OR EQUAL TO TENSILE STRENGTH OF BASE METAL. PER AWS D1.1 OR D1.3.

3.5 PROVIDE 8" AT 120" TALL RACKS AND 4 1/2" AT RACKS LESS THAN 120" (OR EQUAL TO 5% OF THE UPRIGHT FRAME HEIGHT). MINIMUM CLEARANCE BETWEEN OTHER RACK FIXTURES OR ADJACENT BUILDING ELEMENTS PER ASCE 7-10, SECTION 15.5.3.8

ANCHORAGE BILL OF MATERIALS		
USAGE	MATERIAL TYPE	COUNT
ANCHOR	POWERS WEDGE BOLT - 1/2" DIAMETER x 3" (#724480)	180
ANCHOR	POWERS WEDGE BOLT - 3/8" DIAMETER x 3" (#72450)	255
STRAP	ANCHOR STRAPS (GONDOLA)	122
WALL ANCHOR	CMU - 3/8" DIA x 3" ITW RED HEAD LARGE DIAMETER TAPCON (#LDT3850)	21
WALL ANCHOR	MTL STUD WALLS - 1/4" DIA x 6" LAG SCREWS	36

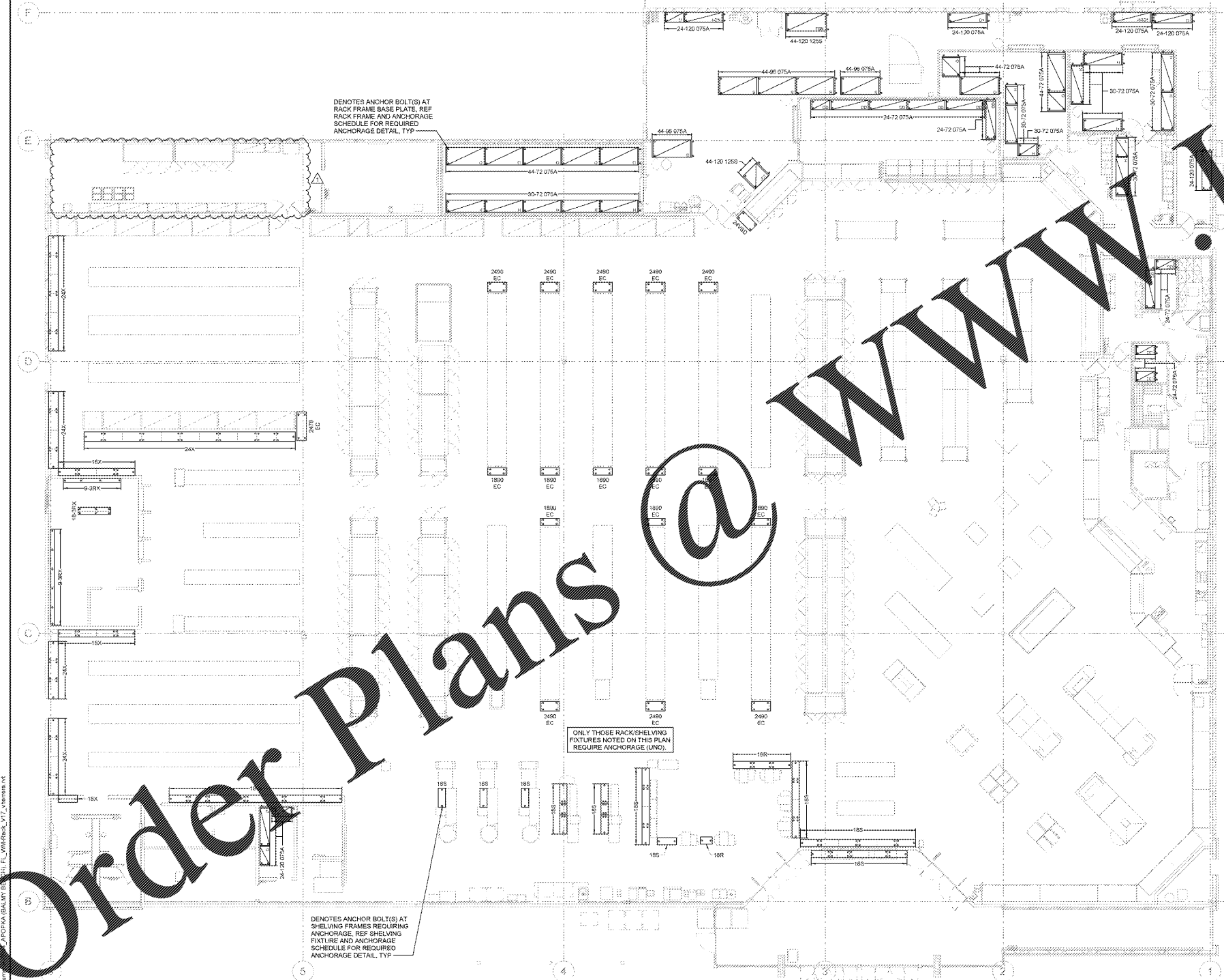
NOTES:
 1. ANCHOR BOLTS AND STRAPS AS NOTED ARE FURNISHED BY AND INSTALLED BY THE GENERAL CONTRACTOR (GC).
 2. ANCHOR STRAP SUPPLIER CONTACT INFORMATION:
 LOZER: JOSH GRODNER, josh.grodner@lozer.biz, (402) 457-8379
 MADIX: CHERI BAGLEY, cbagley@madix.com, (256) 839-6354

SHELVING FIXTURE & ANCHORAGE SCHEDULE			
FIXTURE MARK	FIXTURE DESCRIPTION	FIXTURE HEIGHT	ANCHORAGE DETAIL
9-3RX	PHARMACY HALF T-FRAME	84"	1B-FXS2
19-3RX	PHARMACY FULL T-FRAME	84"	1B-FXS2
18R	HALF GONDOLA	48"	1A-FXS2
18S	HALF GONDOLA	54"	1A-FXS2
18W	HALF GONDOLA	64"	1A-FXS2
18X	HALF GONDOLA	90"	1A-FXS2
24VSD	SUPER DUTY HALF GONDOLA	78"	1D-FXS2
24X	HALF GONDOLA	90"	1A-FXS2
1990 EC	END CAP	64"	1C-FXS2
24V8 EC	END CAP	78"	1C-FXS2
2450 EC	END CAP	90"	1C-FXS2

LEGEND:
 (SD = SUPER DUTY, IF NOTED)
 24VSD: ANCHOR BOLT (REF DETAIL 9) FIXTURE TYPE MARK AND HEIGHT, PER SCHEDULE. SHELVING WIDTH (IN INCHES). HALF GONDOLA FIXTURE SYMBOL.
 24V: ANCHOR BOLT (REF DETAIL 9) FIXTURE TYPE MARK AND HEIGHT, PER SCHEDULE. SHELVING WIDTH (IN INCHES). HALF GONDOLA FIXTURE SYMBOL.
 9-3RX: ANCHOR BOLT (REF DETAIL 9) PHARMACY, IF NOTED. ANCHOR BOLT (REF DETAILS). SHELVING FIXTURE TYPE MARK AND HEIGHT, PER SCHEDULE. SHELVING WIDTH (IN INCHES). FULL T-FRAME FIXTURE SYMBOL.
 18-3: ANCHOR BOLT (REF DETAILS). ANCHOR BOLT (REF DETAILS). SHELVING FIXTURE TYPE MARK AND HEIGHT, PER SCHEDULE. SHELVING WIDTH (IN INCHES). FULL T-FRAME FIXTURE SYMBOL.

RACK FIXTURE SCHEDULE				
FIXTURE MARK	FIXTURE DESCRIPTION	TOP SHELF HEIGHT	FRAME MARK	MAX SHELF LOAD (LBS)
D	STORAGE RACK	120"	FRAME: 24-120 075A	1200
D1	STORAGE RACK	66"	FRAME: 24-120 075A	1200
DD	STORAGE RACK	72"	FRAME: 24-72 075A	1200
FBN	STORAGE RACK	120"	FRAME: 44-120 125S	1200
H	STORAGE RACK	72"	FRAME: 30-72 075A	1200
HZN	STORAGE RACK	120"	FRAME: 24-120 075A	1200
JC1	STORAGE RACK	120"	FRAME: 44-120 125S	2500
NRD1	STORAGE RACK	96"	FRAME: 24-120 075A	1200
O	STORAGE RACK	72"	FRAME: 44-72 075A	1200
S	STORAGE RACK	96"	FRAME: 44-96 075A	8000

RACK FRAME & ANCHORAGE SCHEDULE		
FRAME MARK	ANCHOR DETAIL	FRAME COUNT
24-72 075A	2-FXS2 & 6A-FXS2	16
24-120 075A	2-FXS2 & 6A-FXS2	18
30-72 075A	2-FXS2 & 6A-FXS2	23
44-72 075A	2-FXS2 & 6A-FXS2	13
44-96 075A	2-FXS2 & 6A-FXS2	8
44-120 125S	2-FXS2 & 6A-FXS2	4



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 JOB NUMBER: 197-19-006 | PROJECT: 412

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BID SET NOT FOR CONSTRUCTION

RACK ANCHORAGE PLAN AND NOTES

SHEET: FXS1

Order Plans @

1 RACK AND SHELVING FIXTURE ANCHOR PLAN
 1" = 10'-0"
 0 5 10 20'