DESIGN LOADS

1. BUILDING CODE
   A. BUILDING CODE — 2012 VIRGINIA UNIFORM STATEWIDE BUILDING CODE (2012 IBC)
2. GRAVITY LOADS
   A. REFER TO MANUFACTURER'S RATED LOADS.
3. LATERAL LOADS
   A. SEISMIC LOADS
      1. 5% DAMPED SPECTRAL RESPONSE COEFF (Sds) — 0.132 g
      2. 1-SEC PERIOD SPECTRAL RESPONSE COEFF (Sd1) — 0.083 g
      3. SEISMIC DESIGN CATEGORY — B
      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 (Ωo) — 2.0
      8. IMPORTANCE FACTOR (Ip)
         - SALES FLOOR & GARDEN CENTER AREAS — 1.5 (PUBLIC ACCESS AREA)
         - STORAGE AREA — 1.0 (NO PUBLIC ACCESS)
      9. ANALYSIS PROCEDURE — EQUIVALENT LATERAL FORCE
      10. DESIGN BASE SHEAR (PER RMI 2.6.2)
         - SALES FLOOR & GARDEN CENTER FIXTURES — 0.050W (PUBLIC ACCESS AREA)
         - STORAGE AREA RACKS — 0.033W (NO PUBLIC ACCESS)
   B. WIND LOADS (PER ASCE 7-10)
      1. BASIC WIND SPEED (3 SECOND GUST) — 120 MPH
      2. RISK CATEGORY — III
      3. EXPOSURE CATEGORY — B

GENERAL NOTES

1.0 GENERAL
- 1.1 ALL FIXTURES SHALL BE DESIGNED TO MEET ALL BUILDING CODE REQUIREMENTS INCLUDING SECTION 2209.1 OF THE 2012 IBC.
- 1.2 JOHNSTON BURKHOLDER ASSOCIATES HAS DESIGNED THE BASE ANCHORAGE, MEMBERS AND CONNECTIONS FOR THE FIXTURES SHOWN ON THIS INSTALLATION DRAWING TO RESIST DESIGN WIND/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 (5 1/2 INCHES THICK MINIMUM AT THE EXTERIOR GARDEN CENTER AND STORAGE AREAS), 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 CAPACTIY 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 MAINTAINENCE PER RMI 1.4.1.
- 3.3 RACK INSTALLER SHALL OBTAIN OUT-OF-PLUMB INSTALLATION TOLERANCE FROM FIXTURE SUPPLIER PRIOR TO INSTALLATION PER RMI. SECTION 1.4.11.1.
- 3.4 NO FIELD WELDING IS PERMITTED. ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS, IN AN APPROVED SHOP. USE E70xx WELD RODS OR EQUAL TO TENSILE STRENGTH OF BASE METAL OF WELDMENTS. PER AWS D1.1 OR D1.3.
- 3.5 PROVIDE 6" 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.

SPECIAL INSPECTIONS REQUIRED

SPECIAL INSPECTION AS REQUIRED BY SECTION 1704 OF THE 2012 INTERNATIONAL BUILDING CODE OR BY THE ENGINEER OF RECORD:

PERIODIC SPECIAL INSPECTIONS:

1. POST INSTALLED ANCHORS - USED FOR THE ANCHORAGE OF EXTERIOR GARDEN CENTER RACK FIXTURES PER SECTION 1705.3, TABLE 1705.3(4) AND 1705.11.7 OF THE 2012 INTERNATIONAL BUILDING CODE FOR EACH CONCRETE EXPANSION ANCHOR LISTED IN THE "ANCHOR BOLT DETAIL" ON SHEET FXS2.

NOTES:
1. SPECIAL INSPECTIONS NOTED ABOVE SHALL BE PROVIDED BY, BUT NOT LIMITED TO, THE OWNER'S CONSTRUCTION TESTING LABORATORY (CTL). REFERENCE SPECIFICATIONS FOR DETAILS.

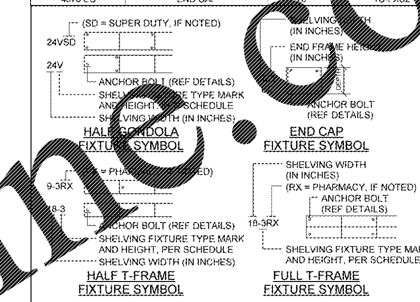
ANCHORAGE BILL OF MATERIALS

USAGE	MATERIAL TYPE	COUNT
ANCHOR	DEWALT SCREW BOLT+ - 1/2" DIAMETER x 3" (#PFM1411380)	515
ANCHOR	DEWALT SCREW BOLT+ - 3/8" DIAMETER x 2 1/2" (#PFM1411220)	815
ANCHOR	HILTI KWIK BOLT TZ (SS304) – 5/8" DIAMETER x 8 1/2" (#00387532)	248
STRAP	ANCHOR STRAPS (GONDOLA)	464
WALL ANCHOR	CMU - 3/8" DIA x 5" ITW RED HEAD LARGE DIAMETER TAPCON (#LDT3850)	104
WALL ANCHOR	MTL STUD WALLS – 1/4" DIA x 6" LAG SCREWS	101

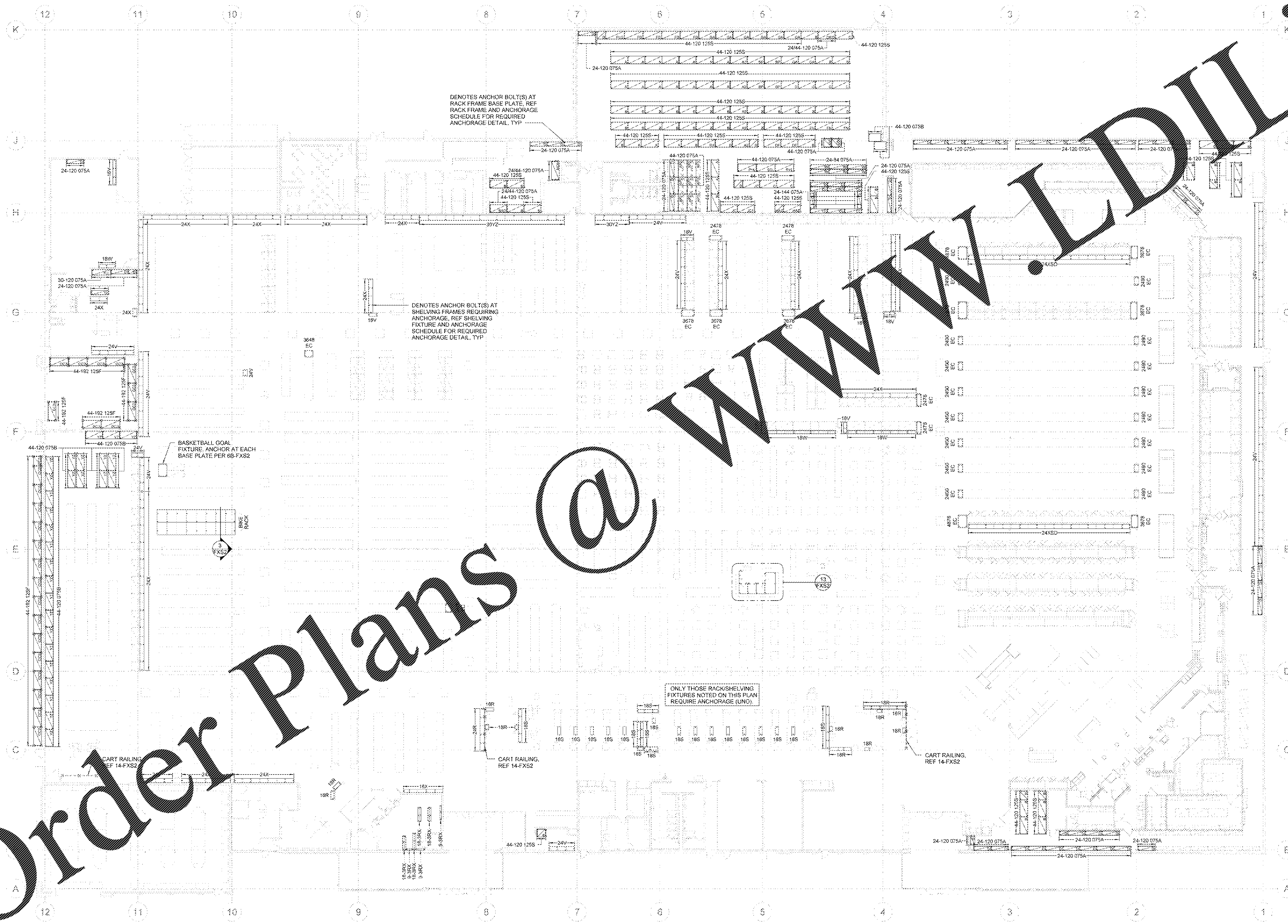
NOTES:
1. ANCHOR BOLTS AND STRAPS AS NOTED ARE FURNISHED BY AND INSTALLED BY THE GENERAL CONTRACTOR (GC).
2. ANCHOR STRAP SUPPLIER CONTACT INFORMATION:
   LOZIER: JOSH GOEDKEN, joshua.goedken@lozier.biz, (402) 457-8379
   MADIX: CHERI BAGLEY, cbagley@madixinc.com, (256) 839-6354

SHELVING FIXTURE & ANCHORAGE SCHEDULE

FIXTURE MARK	FIXTURE DESCRIPTION	FIXTURE HEIGHT	ANCHORAGE DETAIL
9-3RX	PHARMACY HALF T-FRAME	84"	1B-FXS2
15S	HALF GONDOLA	54"	1A-FXS2
18-3RX	PHARMACY FULL T-FRAME	84"	1B-FXS2
18R	HALF GONDOLA	48"	1A-FXS2
18S	HALF GONDOLA	54"	1A-FXS2
18V	HALF GONDOLA	78"	1A-FXS2
18W	HALF GONDOLA	84"	1A-FXS2
18X	HALF GONDOLA	90"	1A-FXS2
24R	HALF GONDOLA	48"	1A-FXS2
24V	HALF GONDOLA	78"	1A-FXS2
24X	HALF GONDOLA	90"	1A-FXS2
24XSD	SUPER DUTY HALF GONDOLA	90"	1D-FXS2
30YZ	HALF GONDOLA	120"	1A-FXS2
2478 EC	END CAP	78"	[illegible]
2490 EC	END CAP	90"	[illegible]
3648 EC	END CAP	48"	1C-FXS2
3678 EC	END CAP	78"	1C-FXS2
4878 EC	END CAP	78"	1C-FXS2



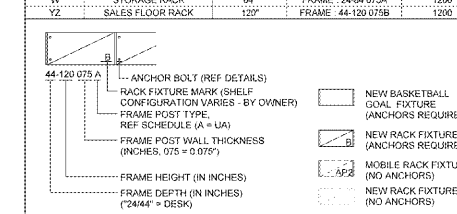
NOTE: ANCHORS SHOWN ABOVE ARE FOR EXAMPLE ONLY. REFER TO PLAN AND DETAILS FOR ACTUAL ANCHOR CONFIGURATION.



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

RACK FIXTURE SCHEDULE

FIXTURE MARK	FIXTURE DESCRIPTION	TOP SHELF HEIGHT	FRAME MARK	MAX SHELF LOAD (LBS)
A	STORAGE RACK	120"	FRAME : 44-120 125S	5000
A2	STORAGE RACK	120"	FRAME : 44-120 125S	5000
AM	LOCKABLE STORAGE RACK	120"	FRAME : 44-120 075A	2500
AP2	MOBILE STORAGE RACK	120"	FRAME : 44-120 075A	2500
AP3	MOBILE STORAGE RACK	120"	FRAME : 44-120 075A	2500
B	STORAGE RACK	120"	FRAME : 44-120 125S	5000
BAD	DESK STORAGE RACK	120"	DESK : 24/44-120 075A	1200
BP	STORAGE RACK	120"	FRAME : 44-120 125S	5000
C	STORAGE RACK	120"	FRAME : 44-120 125S	5000
CL	STORAGE RACK	120"	FRAME : 24-144 075A	1200
CL2	STORAGE RACK	120"	FRAME : 24-144 075A	1200
CRD	STORAGE RACK	120"	FRAME : 24-144 075A	1200
D	STORAGE RACK	120"	FRAME : 24-120 075A	1200
DF	STORAGE RACK	120"	FRAME : 44-120 125S	5000
DRD	DESK STORAGE RACK	120"	DESK : 24/44-120 075A	1200
FB	STORAGE RACK	120"	FRAME : 44-120 125S	1200
FLG	STORAGE RACK	120"	FRAME : 44-120 125S	1200
FN	STORAGE RACK	120"	FRAME : 44-120 125S	2500
G	STORAGE RACK	120"	FRAME : 44-120 125S	5000
GA	STORAGE RACK	120"	FRAME : 44-120 125S	5000
GC2	GARDEN CENTER RACK	144"	GC FRAME : 44-192 125F	5000
GC3	GARDEN CENTER RACK	144"	GC FRAME : 44-192 125F	5000
GN	LOCKABLE STORAGE RACK	120"	FRAME : 44-120 075A	2500
HAZ	STORAGE RACK	120"	FRAME : 44-120 125S	1200
JC	STORAGE RACK	120"	FRAME : 44-120 125S	2500
JC1	STORAGE RACK	120"	FRAME : 44-120 125S	2500
MD9	DESK STORAGE RACK	120"	DESK : 24/44-120 075A	1200
PHL	LOCKABLE STORAGE RACK	120"	FRAME : 44-120 075A	2500
RX	STORAGE RACK	120"	FRAME : 44-120 125S	2500
RXL	LOCKABLE STORAGE RACK	120"	FRAME : 44-120 075A	2500
SSL	LOCKABLE STORAGE RACK	120"	FRAME : 44-120 075A	2500
TLL	LOCKABLE STORAGE RACK	120"	FRAME : 30-120 075A	1200
W	STORAGE RACK	84"	FRAME : 24-84 075A	1200
YZ	SALES FLOOR RACK	120"	FRAME : 44-120 075B	1200



RACK FRAME & ANCHORAGE SCHEDULE

FRAME MARK	ANCHOR DETAIL	FRAME COUNT
24-84 075A	2-FXS2 & 6A-FXS2	8
24-120 075A	2-FXS2 & 6A-FXS2	71
24-144 075A	2-FXS2 & 6A-FXS2	12
24/44-120 075A	2-FXS2 & 6A-FXS2	6
30-120 075A	2-FXS2 & 6A-FXS2	2
44-120 075A	2-FXS2 & 6A-FXS2	20
44-120 075B	2-FXS2 & 6B-FXS2	38
44-120 125S	2-FXS2 & 6A-FXS2	134
44-192 125F	2-FXS2 & 11-FXS2	31

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RACK ANCHORAGE PLAN AND NOTES

SHEET: FXS1

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