

DESIGN LOADS	
1. CODE	2018 NORTH CAROLINA BUILDING CODE
2. GRAVITY LOADS	A. REFER TO MANUFACTURER'S RATED LOADS.
3. LATERAL LOADS	A. SEISMIC LOADS
1. 5% DAMPED SPECTRAL RESPONSE COEFF. (SDC)	0.340
2. 1-SEC PERIOD SPECTRAL RESP. COEFF. (SD1)	0.175
3. SITE CLASS (ASSUMED)	D
4. SEISMIC DESIGN CATEGORY	C
5. NON-BUILDING STRUCTURAL SYSTEM AND SEISMIC RESISTING SYSTEM	STEEL STORAGE RACKS
6. RESPONSE MODIFICATION FACTOR (R)	4.0
7. OVERSTRENGTH FACTOR (OS)	2.0
8. IMPORTANCE FACTOR (I _B)	1.5 (PUBLIC ACCESS AREA)
9. ANALYSIS PROCEDURE (ASCE-7, SECT. 12.8 & 15.5)	1.0 (NO PUBLIC ACCESS)
10. DESIGN BASE SHEAR (PER 2012 RM)	EQUIVALENT LATERAL FORCE
- SALES FLOOR RACKS	0.131W (PUBLIC ACCESS AREA)
- STORAGE AREA RACKS	0.087W (NO PUBLIC ACCESS)
STATEMENT OF SPECIAL INSPECTIONS	
SPECIAL INSPECTIONS ARE REQUIRED PER CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE OR BY ENGINEER OF RECORD.	
PERIODIC SPECIAL INSPECTIONS:	
1.	POST-INSTALLED ANCHORS - INTERIOR SALES FLOOR STORAGE RACK OR SHELVING FIXTURE ANCHORAGE.
2.	POST-INSTALLED ANCHORS - EXTERIOR GARDEN CENTER RACK ANCHORAGE.
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.	

GENERAL NOTES

1.0 ALL FIXTURES SHALL BE DESIGNED TO MEET ALL BUILDING CODE REQUIREMENTS. THE BASE ANCHORAGE, MEMBERS AND CONNECTIONS FOR THE FIXTURES SHOWN ON THIS INSTALLATION DRAWING HAVE BEEN DESIGNED 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 ASSUMPTIONS

2.1 SLAB ON GRADE IS ASSUMED TO HAVE A MINIMUM OF 3,000 PSI COMPRESSIVE STRENGTH.

2.2 THE SLAB ON GRADE IS ASSUMED TO BE A MINIMUM OF 4 INCHES THICK & 12 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 SUBGRADE REACTION MODULUS OF 150 PCI 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 RM 1.4.1.

3.3 RACK INSTALLER SHALL OBTAIN OUT-OF-PLUMB INSTALLATION TOLERANCE FROM FIXTURE SUPPLIER PRIOR TO INSTALLATION - RM 2012, SECTION 4.1.1.

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 WELLEMENTS PER AWS D1.1 OR D1.3.

3.5 PROVIDE AT 12" TALL RACKS AND 4" TALL RACKS LESS THAN 120" OR EQUAL TO 6% OF THE UPRIGHT FRAME HEIGHT) MINIMUM CLEARANCE BETWEEN OTHER RACK FIXTURES OR ADJACENT BUILDING ELEMENTS PER ASCE 7-10, SECTION 15.5.3.8.

4.0 ROLES AND RESPONSIBILITIES FOR DEMOLITION AND INSTALLATION OF SHELVING AND RACKING FIXTURES

4.1 GENERAL CONTRACTOR TO ANCHOR ALL SHELVING AND RACKING FIXTURES ACCORDING TO THE REQUIREMENTS NOTED ON SHEETS FXS1 AND FXS2.

4.2 FIXTURE ANCHORING SHALL BE ACCOMPLISHED SIMULTANEOUSLY WITH FIXTURE INSTALLATION.

4.3 GENERAL CONTRACTOR SHALL INSURE THAT PROPER PROCEDURES AND WORK SEQUENCING ARE IN PLACE DURING ALL FIXTURE ANCHORING PROCEDURES.

4.4 GENERAL CONTRACTOR TO CLEAN ALL RESIDUE FROM SURROUNDING FIXTURE AREA AFTER ANCHORING IS COMPLETE (CLEAN AS YOU GO).

4.5 GENERAL CONTRACTOR IS TO PERFORM ALL REMOVAL AND INSTALLATION OF ANCHORS, STRAPS & BOLTS AT FIXTURES REQUIRING PERMANENT OR TEMPORARY RELOCATION.

ANCHORAGE BILL OF MATERIALS

USAGE	MATERIAL TYPE	ANCHOR COUNT
TEMP ANCHOR	1/2" DIA. X 12" ANCHOR BOLT - 1/2" DIA. X 12" (PPM1411220)	100
TEMP ANCHOR	DEWALT SCREW BOLT - 3/8" DIA. X 2 1/2" (PPM1411220)	1012
TEMP STRAP	ANCHOR STRAPS (GONDOLA/WALL)	34
TEMP STRAP	ANCHOR STRAPS (GONDOLA/WALL)	692
TEMP ANCHOR	ANCHOR STRAPS (T-FRAME/RACK)	124
TEMP ANCHOR	CMU - 3/8" DIA. X 5" (TYP) RED HEAD LARGE DIAMETER TAPCON (MLDT3850)	43
WALL ANCHOR	MTL STUD WALLS - 1/4" DIA. X 5" LAG SCREWS	95

NOTES:

1. ANCHOR BOLTS AND STRAPS NOTED ABOVE 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@madix.com, 656) 838-6364

TEMPORARY ANCHORAGE BILL OF MATERIALS

USAGE	MATERIAL TYPE	ANCHOR COUNT
TEMP ANCHOR	DEWALT SCREW BOLT - 3/8" DIA. X 2 1/2" (PPM1411220)	146
TEMP STRAP	ANCHOR STRAPS (GONDOLA/WALL)	82

SHELVING FIXTURE & ANCHORAGE SCHEDULE

FIXTURE MARK	FIXTURE DESCRIPTION	FIXTURE HEIGHT	ANCHORAGE DETAIL
18R	HALF GONDOLA	48"	1A-FXS2
24R	HALF GONDOLA	48"	1A-FXS2
18T	HALF GONDOLA	60"	1A-FXS2
18V	HALF GONDOLA	78"	1A-FXS2
24V	HALF GONDOLA	78"	1A-FXS2
36V	HALF GONDOLA	78"	1A-FXS2
18W	HALF GONDOLA	84"	1A-FXS2
24X	HALF GONDOLA	90"	1A-FXS2
30Y	HALF GONDOLA	120"	1A-FXS2
3678 EC	END CAP	78"	1C-FXS2
2490 EC	END CAP	90"	1C-FXS2
24X	FULL GONDOLA	90"	1E-FXS2
38X	FULL GONDOLA	90"	1E-FXS2
24Z	FULL GONDOLA	120"	1E-FXS2
30-3	FULL T-FRAME	84"	1E-FXS2

LEGEND NOTES:

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

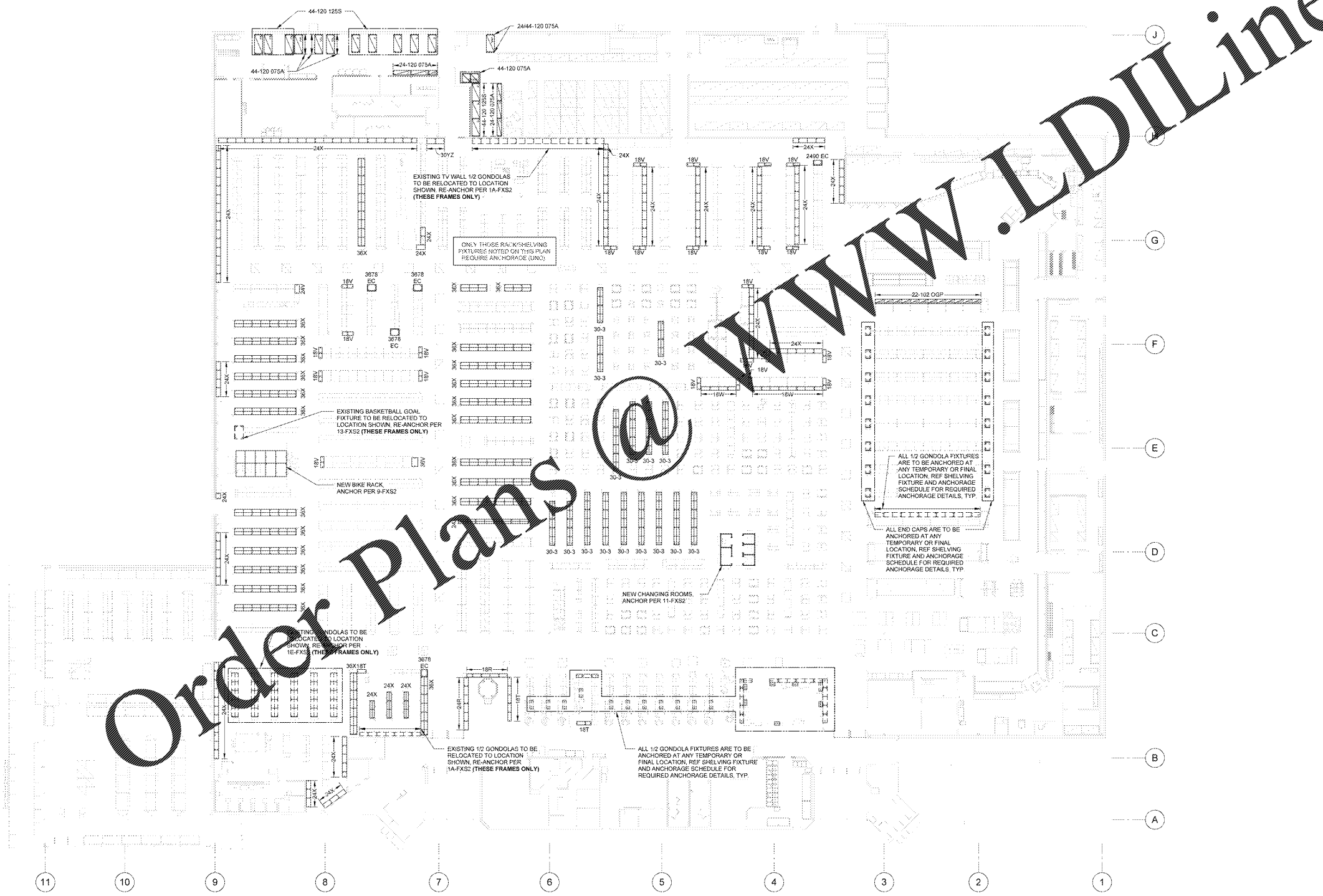
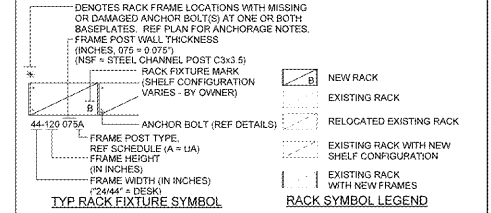
2. NOT ALL SYMBOLS SHOWN MAY BE APPLICABLE TO THIS PROJECT.

RACK FRAME AND ANCHORAGE SCHEDULE

FRAME MARK	ANCHOR DETAIL	FRAME COUNT
22-102 OGP	2-FXS2	13
24-120 075A	2-FXS2	8
2444-120 075A	2-FXS2	2
44-120 075A	2-FXS2	10
44-120 125S	2-FXS2	20

RACK FIXTURE SCHEDULE

FIXTURE MARK	FIXTURE DESCRIPTION	FIXTURE HEIGHT	FRAME MARK	MAX SHELF LOAD (LBS)
GNAM	LOCKABLE STORAGE RACK	120"	FRAME 44-120 075A	2500
B	STORAGE RACK	120"	FRAME 44-120 125S	8000
BAID	DESK STORAGE RACK	120"	FRAME 2444-120 075A	1200
D	STORAGE RACK	120"	FRAME 24-120 075A	1200
FB	STORAGE RACK	120"	FRAME 44-120 125S	1200
OSP	STORAGE RACK	100"	FRAME 22-102 OGP	250
PHL	LOCKABLE STORAGE RACK	120"	FRAME 44-120 075A	2500
RK	STORAGE RACK	120"	FRAME 44-120 125S	2500
RXL	LOCKABLE STORAGE RACK	120"	FRAME 44-120 075A	2500
SBL	LOCKABLE STORAGE RACK	120"	FRAME 44-120 075A	2500



1 FIXTURE ANCHORAGE PLAN
1" = 20'-0"

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CONSULTANTS

wallace

WALLACE CONSULTANTS, INC.
 1000 W. MAIN STREET, SUITE 200
 SYLVIA, NC 27578
 PHONE: 919.838.6364
 FAX: 919.838.6364
 WWW.WALLACECONSULTANTS.COM

Walmart

SYLVA, NC

STORE NO. 2440.237

19594011 | PHOTO:

JOB NUMBER:

ISSUE BLOCK

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FIXTURE ANCHORAGE PLAN AND NOTES

SHEET: **FXS1**