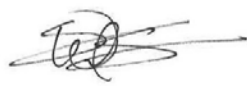


Submittal Response

Project: RACK – Totem Lake, Kirkland, WA
Store No.: 139
Date: 06.20.17

Submittal: 28-105626-01R1 Mobile Storage Shelving

X NO EXCEPTION TAKEN REJECTED SUBMIT SPECIFIED ITEM MAKE CORRECTION NOTED REVISE AND RESUBMIT	Checking is only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Any action shown is subject to the requirements for the plans and specifications. Contractor is responsible for dimensions which shall be confirmed and correlated at the jobsite, fabrication processes and techniques of construction, coordination of his work with that of all other trades, and the satisfactory performance of his work.
	HOSHIDE WANZER ARCHITECTS 

Notes:

- See attached review by engineer.

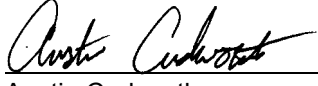
City of Kirkland
 Reviewed by J Minato
 06/29/2017



LETTER OF TRANSMITTAL

Date: June 21, 2017
To: Sean Wilson
Company: Hoshide Wanzer Architects
100 Northeast Northlake Way, Suite 150
Seattle, Washington 98105
Tel No.: 206-325-6441

Project: Nordstrom Rack
Totem Lake
Kirkland, Washington
Project No.: 160381
Phase No.: 900

From: 
Austin Cudworth
Structural Engineering

The following documents are being transmitted by ☐ UPS ☐ Mail ☐ Courier ☒ Hand delivered ☐ Picked up

Copies	Date	Description
(1)	6/21/17	28-105626-01R1 Submittal – Mobile Storage Shelving

THE ABOVE DOCUMENTS ARE SENT FOR:

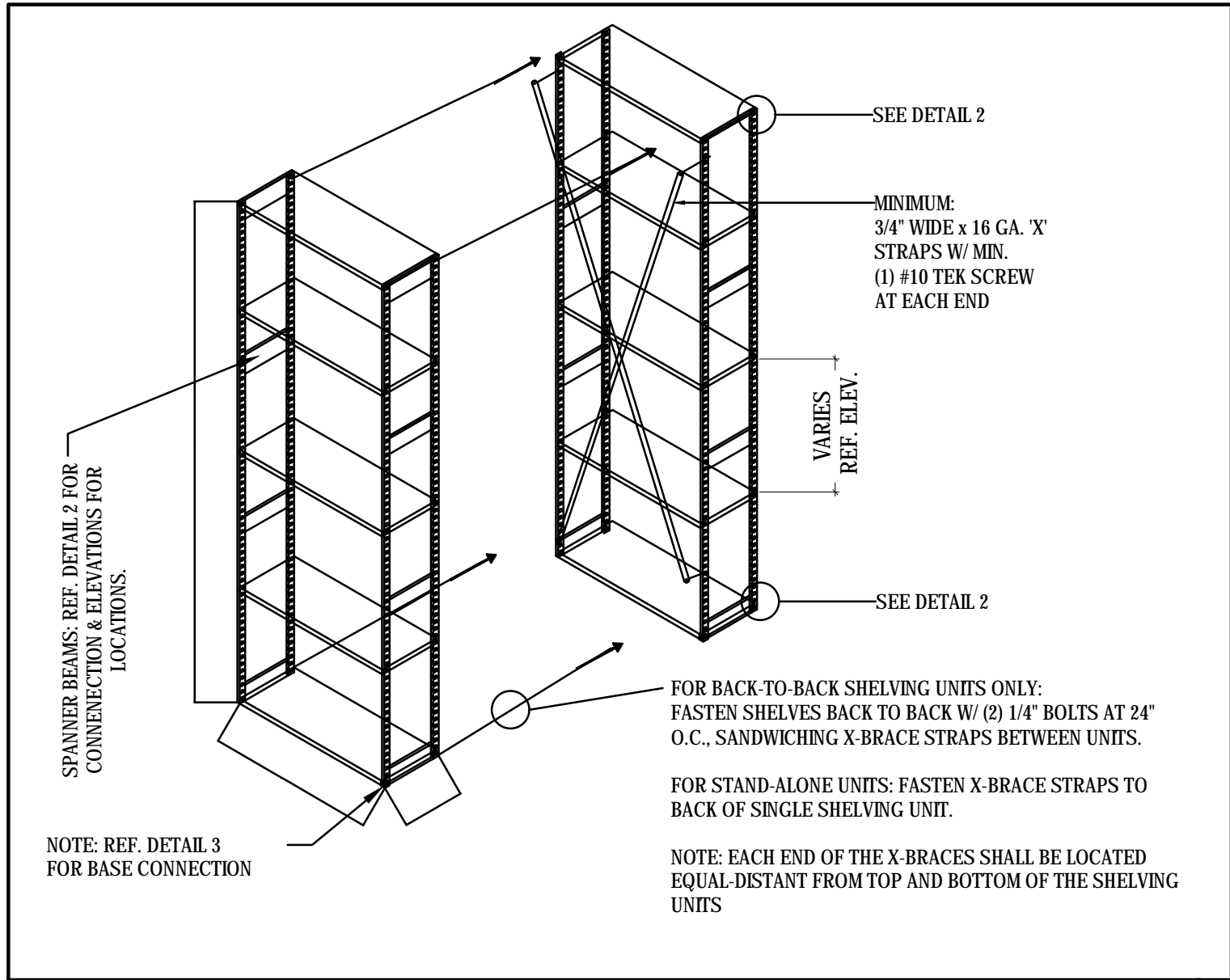
☐ Approval/Comments ☒ Your Use ☒ As Requested ☐ Review and Comment

COMMENTS:

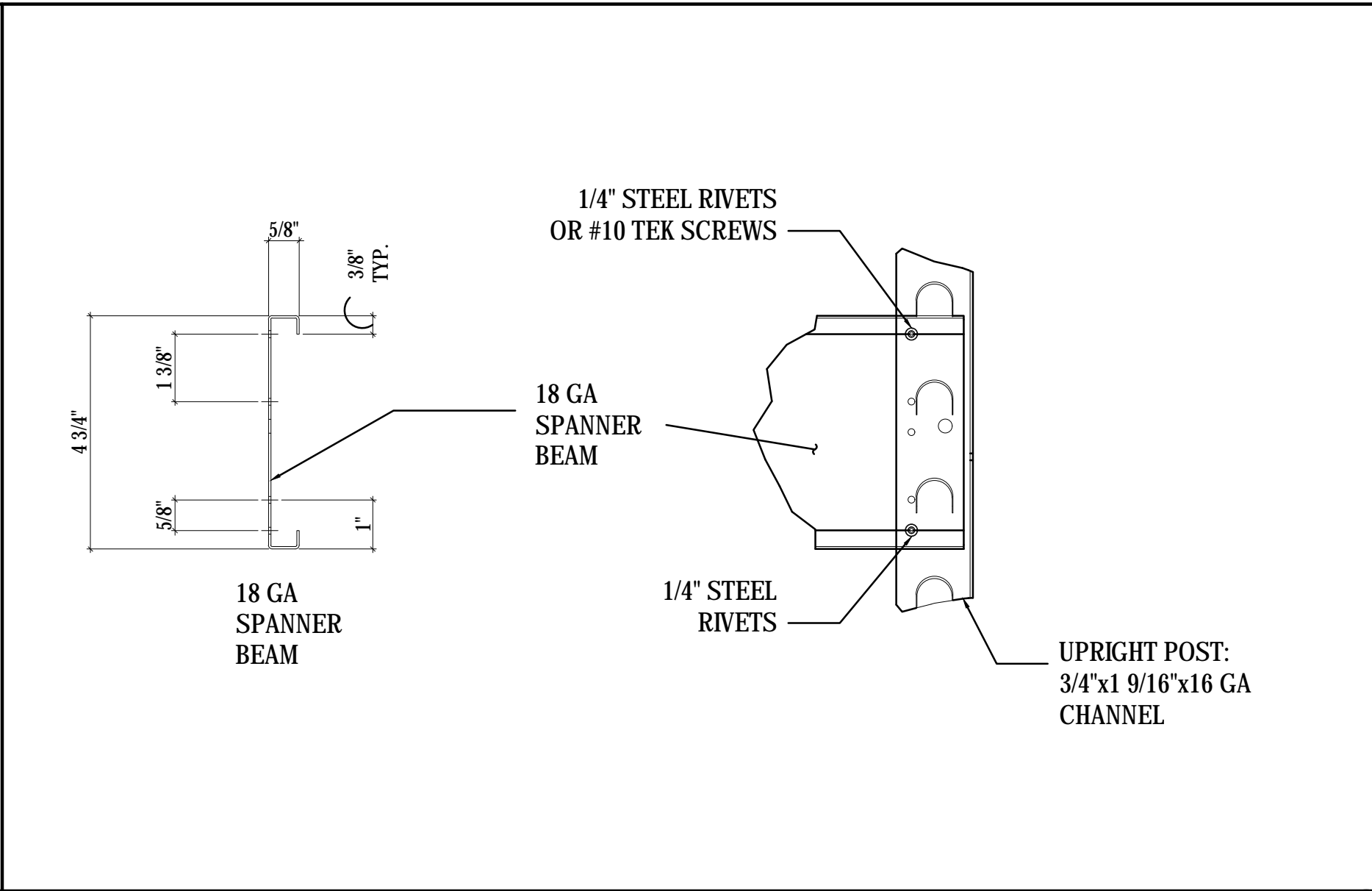
City of Kirkland
Reviewed by J Minato
06/29/2017

P:\Sea\16Jobs\160381 Nordstrom RACK at Totem Lake\6.0 CONSTRUCTION ADMINISTRATION\6.4 Submittals & Shop Drawings\28-105626-01R1\160381 S 170621 LOT.doc

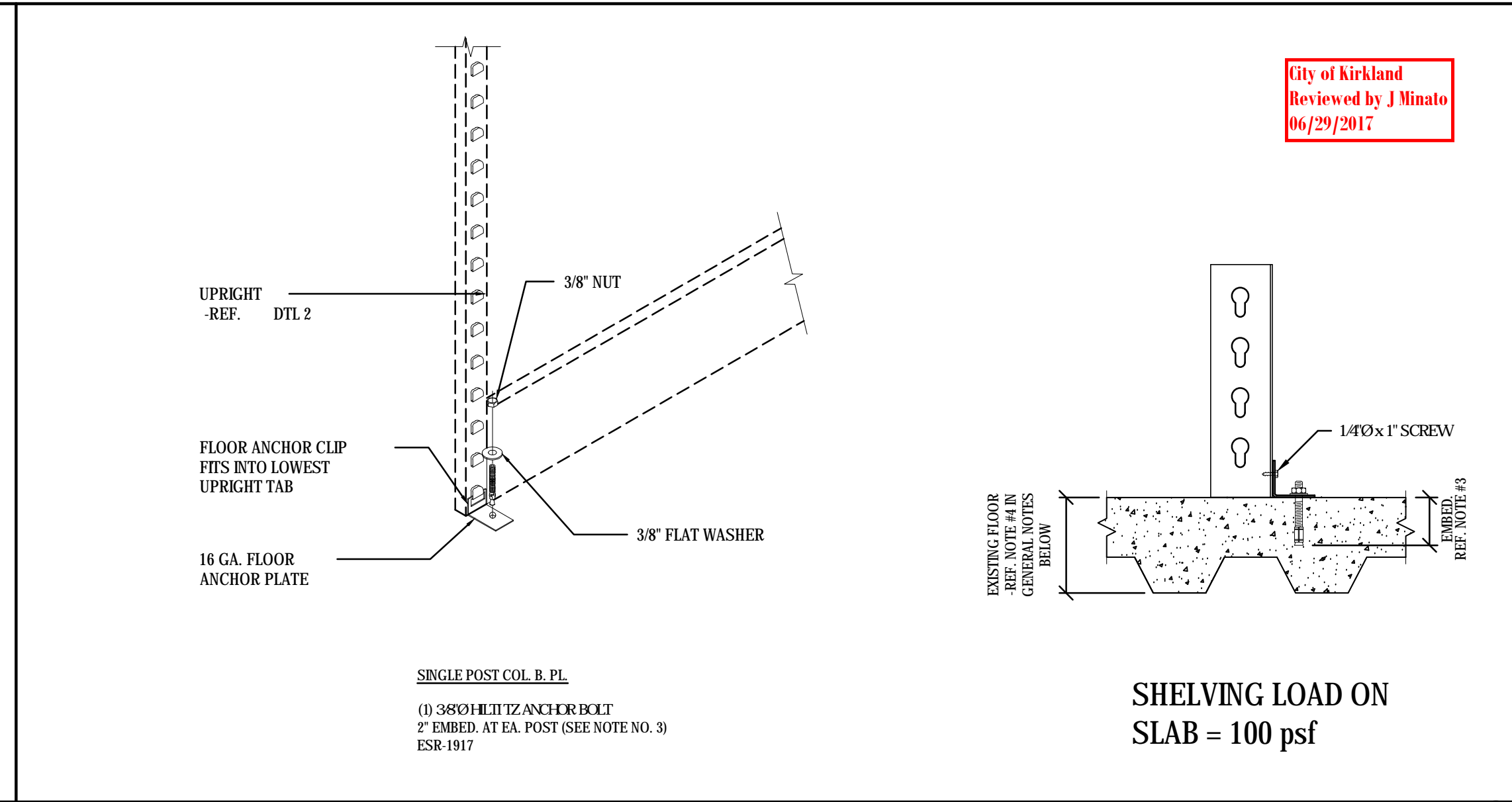
	TRANSMITTAL OF: SHOP DRAWING, PRODUCT DATA, OR MATERIAL SAMPLES						Date 6/16/2017
	Edifice GC, Inc. 17445 NE 70th Street, Suite 180 Redmond, WA 98052-4914 (425) 286-1350 Office (425) 286-1360 Fax		TO: Hoshide Wanzer Architects		<input type="checkbox"/> COPY: Nordstrom	<input type="checkbox"/> NEW SUBMITTAL	
			sean@hw-architects.com		If box is checked Jim.Carpenter@Nordstrom.com		
			Attn: Sean Wilson		Attn: Jim Carpenter		<input checked="" type="checkbox"/> RESUBMITTAL
	PROJECT TITLE AND LOCATION: Nordstrom Rack - Totem Lake 12520 Totem Lake BLVD NE, Suite 120 Kirkland, WA 98034		ECCI PROJECT NUMBER	PREVIOUS TRANS. #		TRANSMITTAL #	
			1702		28-105626-01		28-105626-01R1
			CONTRACT NUMBER				SPEC SECTION # 105626
Sub/Supplier Name:		Pipp Mobile	SUBMITTAL TYPE	# of Copies	CONTRACT DOCUMENT REFERENCE		
Item	DESCRIPTION OF ITEMS SUBMITTED <small>(TYPE, SIZE, MODEL NUMBER, ETC.)</small>	<small>SHOP DRAWINGS., DATA, OR MATERIAL SAMPLES</small>			SPECIFICATION PARAGRAPH	DRAWING REFERENCE	
	Mobile Storage Shelving:						
1	Structural Calculations	Data	1				
2	Shop Drawings	Shop Drawings	1				
3	Clarification Letter	Data	1				
							<div style="border: 1px solid red; padding: 5px;"> <p>NO EXCEPTIONS TAKEN <input checked="" type="checkbox"/> MAKE CORRECTIONS NOTED <input type="checkbox"/> REJECTED <input type="checkbox"/> REVISE AND RESUBMIT <input type="checkbox"/></p> <p>This review is limited to verification of General Conformance with Coffman's Design Intent and with the requirements of the Contract Documents. The Contractor is responsible for verifying dimensions, Means and Methods of construction, coordination of the work with that of all other trades, and the satisfactory performance of all work. This review does not constitute approval or acceptance of deviations from the Contract Documents. Any deviations shall be requested by written correspondence in accordance with Contract Documents.</p> <p align="center">COFFMAN ENGINEERS</p> <p>DATE: 06/21/2017 BY: Austin Cudworth</p> </div>
Please Return # of hardcopies noted below		REVIEWERS' COMMENTS: <div style="border: 2px solid red; padding: 5px; width: fit-content; margin-left: auto;"> City of Kirkland Reviewed by J Minato 06/29/2017 </div>				I have reviewed the above items as submitted for conformance requirements and have noted any comments.	
1 PDF if digital						Lingzi Zhang	
or 1 for GC						Signature	
1 for Sub/Supplier						Lingzi Zhang	
RETURN REQUEST DATE:						Printed Name	
6/22/2017							



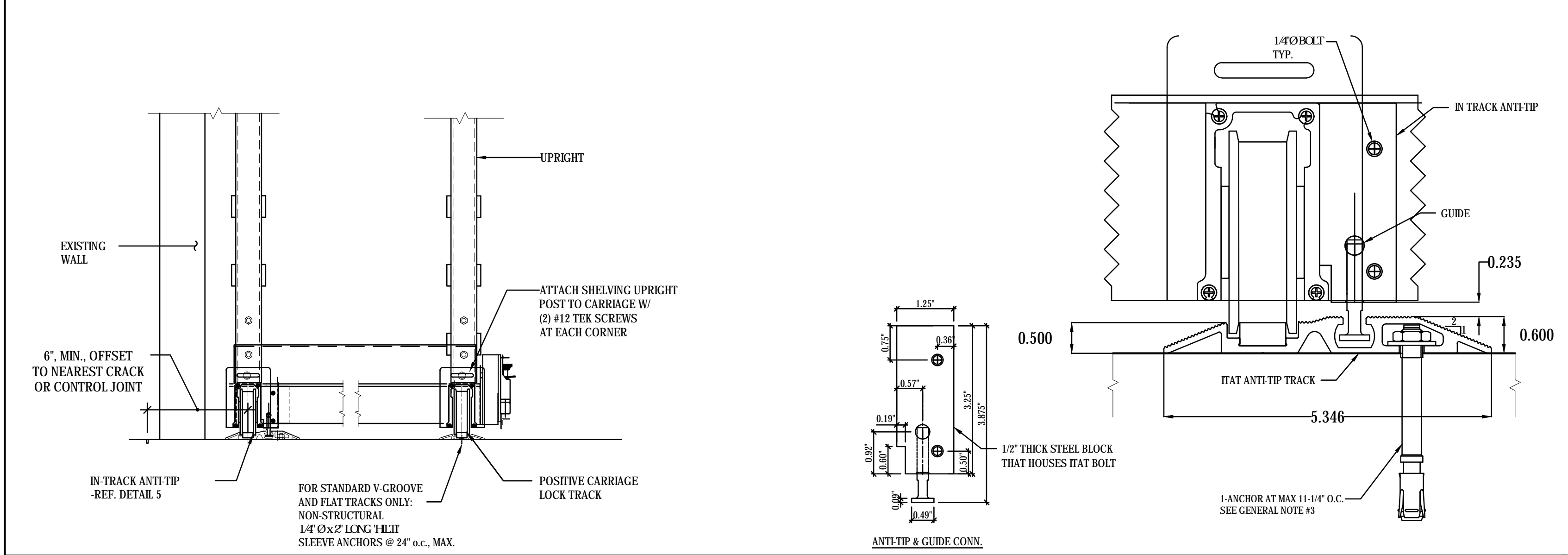
FASTENING SHELVES TOGETHER



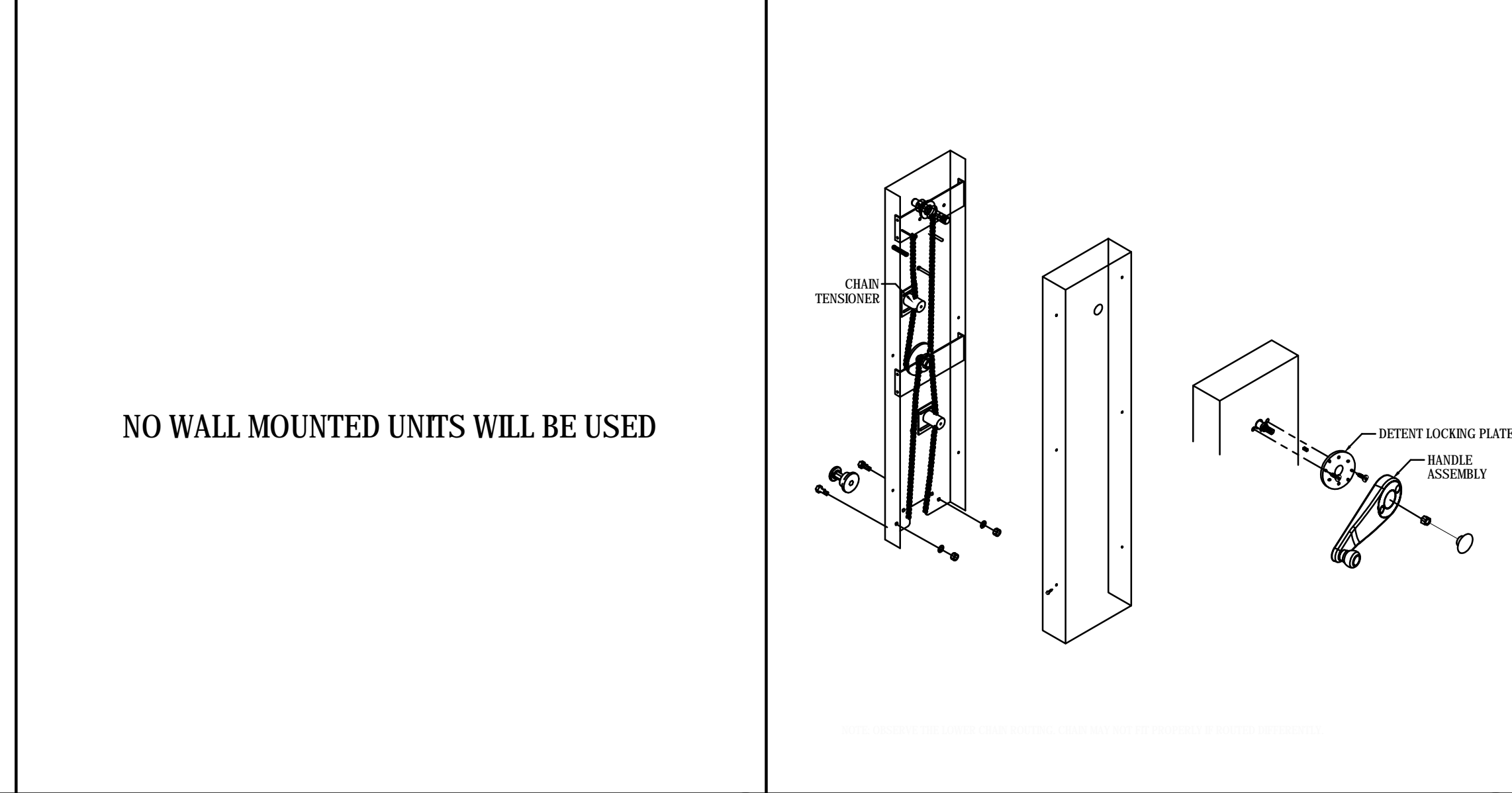
"SPANNER" BEAM



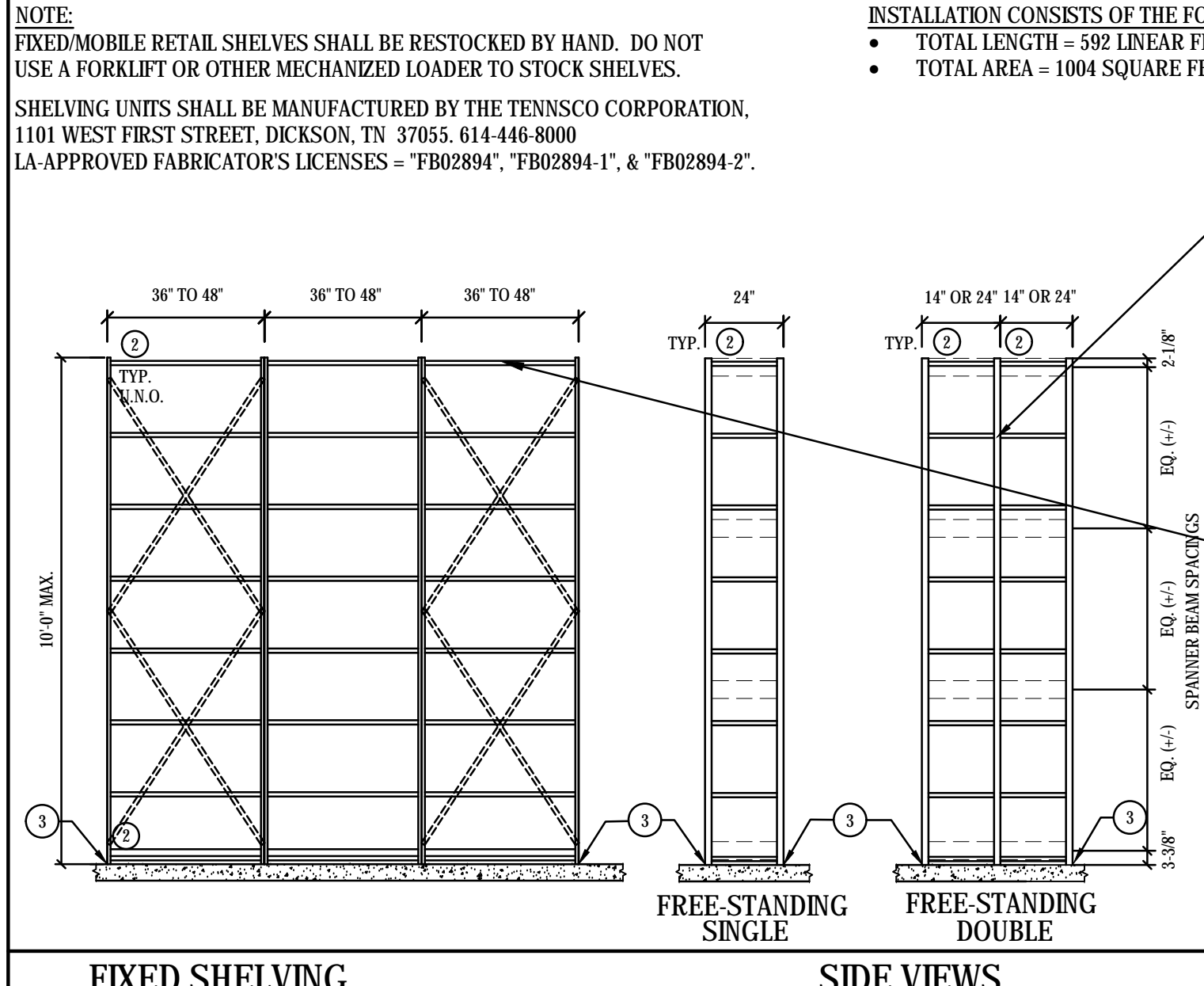
BASE PLATE (FIXED UNITS)



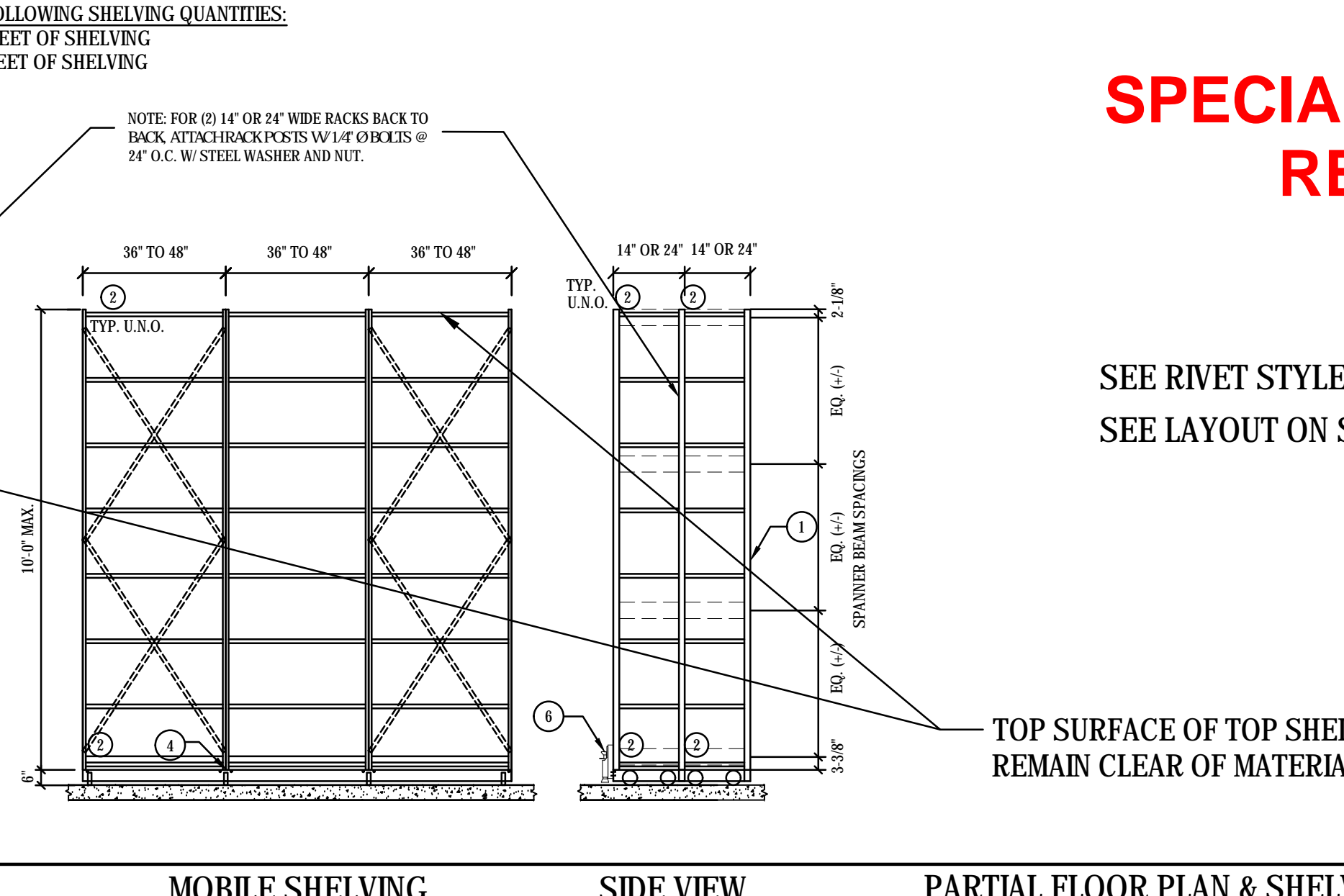
CARRIAGE AND TRACK ASSEMBLY



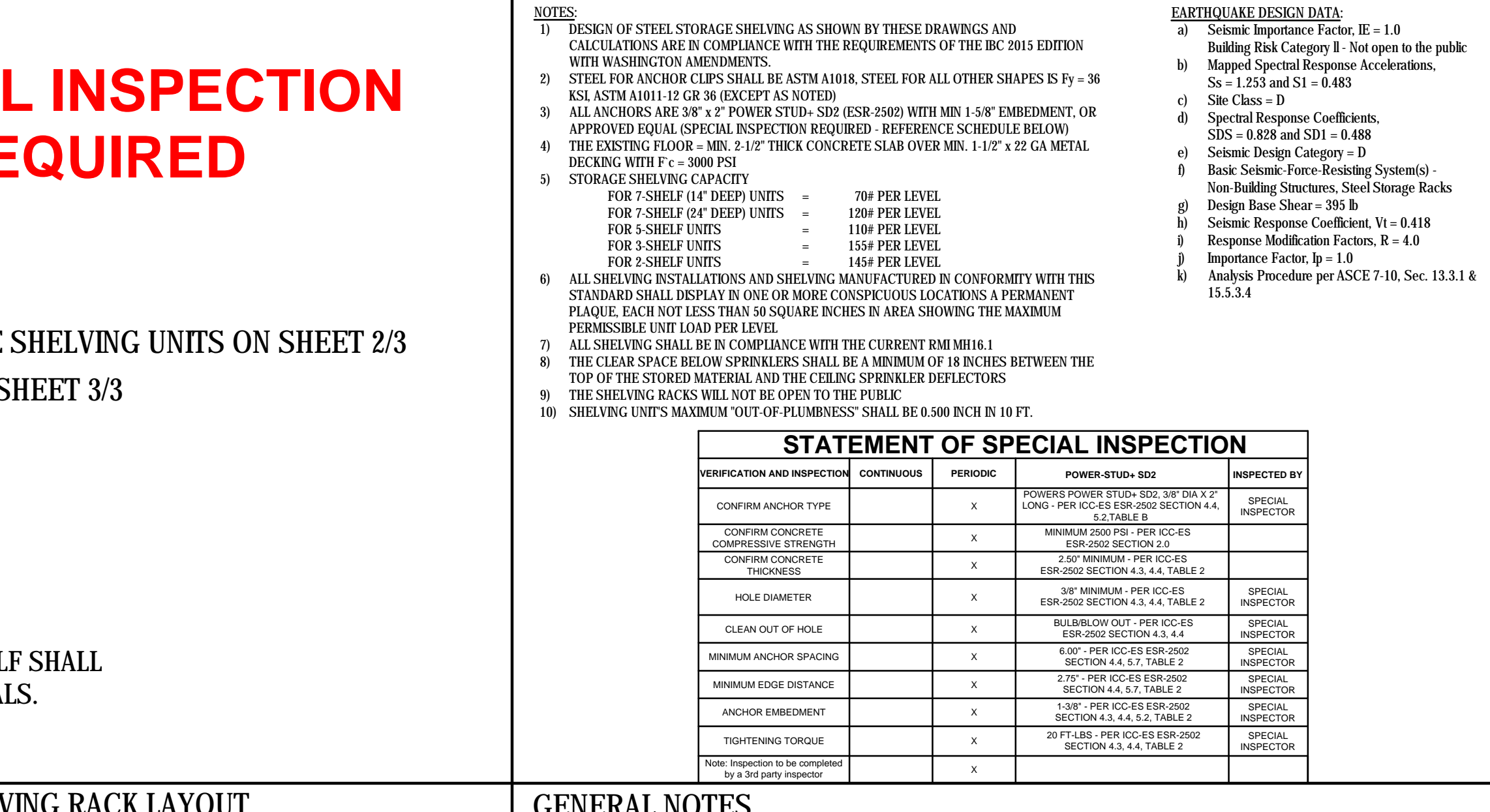
WALL CONNECTION



FIXED SHELVING



MOBILE SHELVING



PARTIAL FLOOR PLAN & SHELVING RACK LAYOUT

GENERAL NOTES

NOTE: FIXED/MOBILE RETAIL SHELVES SHALL BE RESTOCKED BY HAND. DO NOT USE A FORKLIFT OR OTHER MECHANIZED LOADER TO STOCK SHELVES.

SHELVING UNITS SHALL BE MANUFACTURED BY THE TENNSCO CORPORATION, 1101 WEST FIRST STREET, DICKSON, TN 37055. 614-446-8000

LA-APPROVED FABRICATOR'S LICENSES = "FB02894", "FB02894-1", & "FB02894-2".

INSTALLATION CONSISTS OF THE FOLLOWING SHELVING QUANTITIES:

- TOTAL LENGTH = 592 LINEAR FEET OF SHELVING
- TOTAL AREA = 1004 SQUARE FEET OF SHELVING

NOTES:

- DESIGN OF STEEL STORAGE SHELVING AS SHOWN BY THESE DRAWINGS AND CALCULATIONS ARE IN COMPLIANCE WITH THE REQUIREMENTS OF THE IBC 2015 EDITION WITH WASHINGTON AMENDMENTS.
- STEEL FOR ANCHOR CLIPS SHALL BE ASTM A1018, STEEL FOR ALL OTHER SHAPES IS Fy = 36 KSI, ASTM A1011-12 GR 36 (EXCEPT AS NOTED)
- ALL ANCHORS ARE 3/8" x 2" POWER STUD- SD2 (ESR-2502) WITH MIN 1-5/8" EMBEDMENT, OR APPROVED EQUAL (SPECIAL INSPECTION REQUIRED - REFERENCE SCHEDULE BELOW)
- THE EXISTING FLOOR - MIN. 2-1/2" THICK CONCRETE SLAB OVER MIN. 1-1/2" x 22 GA METAL DECKING WITH Fc = 3000 PSI
- STORAGE SHELVING CAPACITY
 - FOR 7-SHELF (14" DEEP) UNITS = 70# PER LEVEL
 - FOR 7-SHELF (24" DEEP) UNITS = 120# PER LEVEL
 - FOR 5-SHELF UNITS = 110# PER LEVEL
 - FOR 3-SHELF UNITS = 155# PER LEVEL
 - FOR 2-SHELF UNITS = 145# PER LEVEL
- ALL SHELVING INSTALLATIONS AND SHELVING MANUFACTURED IN CONFORMITY WITH THIS STANDARD SHALL DISPLAY IN ONE OR MORE CONSPICUOUS LOCATIONS A PERMANENT PLAQUE, EACH NOT LESS THAN 50 SQUARE INCHES IN AREA SHOWING THE MAXIMUM PERMISSIBLE UNIT LOAD PER LEVEL
- ALL SHELVING SHALL BE IN COMPLIANCE WITH THE CURRENT RMI 10.1
- THE CLEAR SPACE BELOW SPRINKLERS SHALL BE A MINIMUM OF 18 INCHES BETWEEN THE TOP OF THE STORED MATERIAL AND THE CEILING SPRINKLER DEFLECTORS
- THE SHELVING RACKS WILL NOT BE OPEN TO THE PUBLIC
- SHELVING UNITS MAXIMUM "OUT-OF-PLUMBNESS" SHALL BE 0.500 INCH IN 10 FT.

EARTHQUAKE DESIGN DATA:

- Seismic Importance Factor, IE = 1.0
- Building Risk Category II - Not open to the public
- Mapped Spectral Response Accelerations, Ss = 1.253 and S1 = 0.483
- Site Class = D
- Spectral Response Coefficients, SDS = 0.828 and SD1 = 0.488
- Seismic Design Category = D
- Basic Seismic Force-Resisting System(s) - Non Building Structures, Steel Storage Racks
- Design Base Shear = 395 lb
- Seismic Response Coefficient, Vr = 0.418
- Response Modification Factors, R = 4.0
- Importance Factor, Ip = 1.0
- Analysis Procedure per ASCE 7-10, Sec. 13.3.1 & 15.5.3.4

STATEMENT OF SPECIAL INSPECTION

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	POWER-STUD - SD2	INSPECTED BY
CONFIRM ANCHOR TYPE		X	POWERS POWER STUD- SD2, 3/8" DIA X 2" LONG - PER ICC-ES ESR-2502 SECTION 4.4, 5.2, TABLE B	SPECIAL INSPECTOR
CONFIRM CONCRETE COMPRESSIVE STRENGTH	X		MINIMUM 2500 PSI - PER ICC-ES ESR-2502 SECTION 2.0	
CONFIRM CONCRETE THICKNESS	X		2.50" MINIMUM - PER ICC-ES ESR-2502 SECTION 4.3, 4.4, TABLE 2	
HOLE DIAMETER	X		3/8" MINIMUM - PER ICC-ES ESR-2502 SECTION 4.3, 4.4, TABLE 2	SPECIAL INSPECTOR
CLEAN OUT OF HOLE	X		REEL/BLOW OUT - PER ICC-ES ESR-2502 SECTION 4.3, 4.4	SPECIAL INSPECTOR
MINIMUM ANCHOR SPACING	X		6.00" - PER ICC-ES ESR-2502 SECTION 4.4, 5.7, TABLE 2	SPECIAL INSPECTOR
MINIMUM EDGE DISTANCE	X		2.75" - PER ICC-ES ESR-2502 SECTION 4.4, 5.7, TABLE 2	SPECIAL INSPECTOR
ANCHOR EMBEDMENT	X		1-3/8" - PER ICC-ES ESR-2502 SECTION 4.4, 4.4, 5.2, TABLE 2	SPECIAL INSPECTOR
TIGHTENING TORQUE	X		20 FT-LBS - PER ICC-ES ESR-2502 SECTION 4.3, 4.4, TABLE 2	SPECIAL INSPECTOR
Note: Inspections to be completed by a 3rd party inspector	X			

SEE RIVET STYLE SHELVING UNITS ON SHEET 2/3

SEE LAYOUT ON SHEET 3/3

TOP SURFACE OF TOP SHELF SHALL REMAIN CLEAR OF MATERIALS.

JUN 15 2017

City of Kirkland
Reviewed by J Minato
06/29/2017

ECLIPSE
ENGINEERING

ENGINEERING

NORDSTROM RACK #139
THE VILLAGE AT TOTEM LAKE
12520 TOTEM LAKE BLVD - SUITE #120
KIRKLAND, WASHINGTON 98034

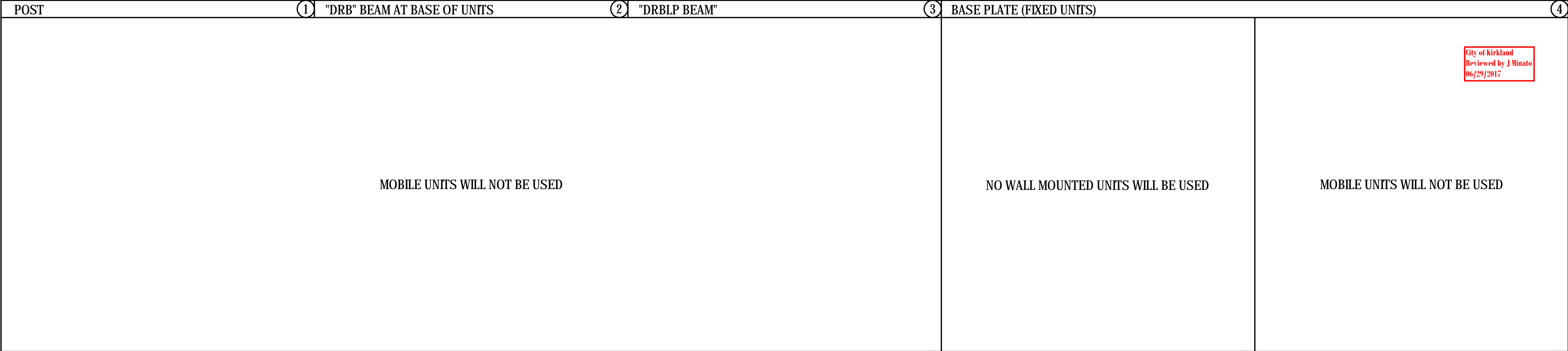
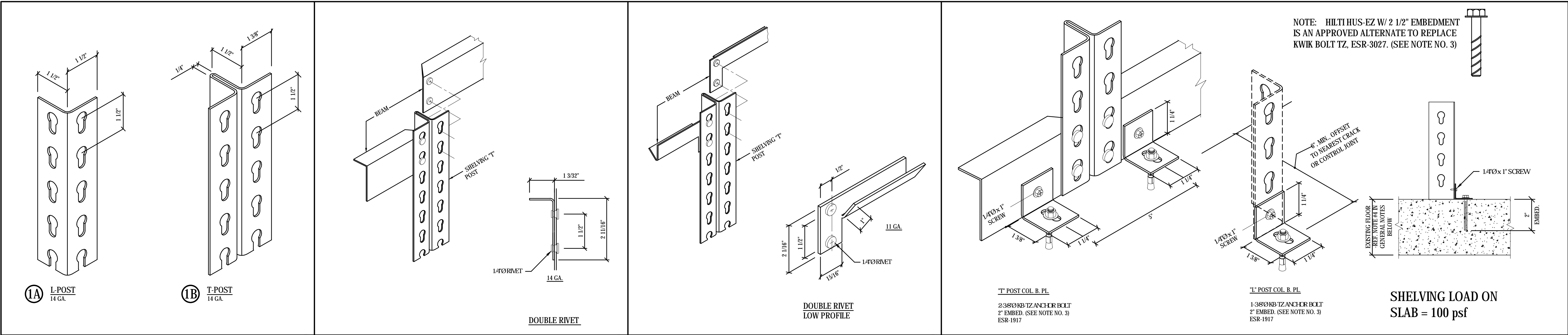
PIPPI RETAIL STYLE
STEEL STORAGE RACK
DETAILS

DRAWN	CHECKED	REVIS	REVISED
NSB	RHA		

ECLIPSE ENGINEERING
CONTACT INFO:
NICK BURNAM, PE
376 SW BLUFF DR, SUITE 8
BEND, OR 97702
(541) 389-9659

17-05-262
06-01-2017

SHEET
1
3

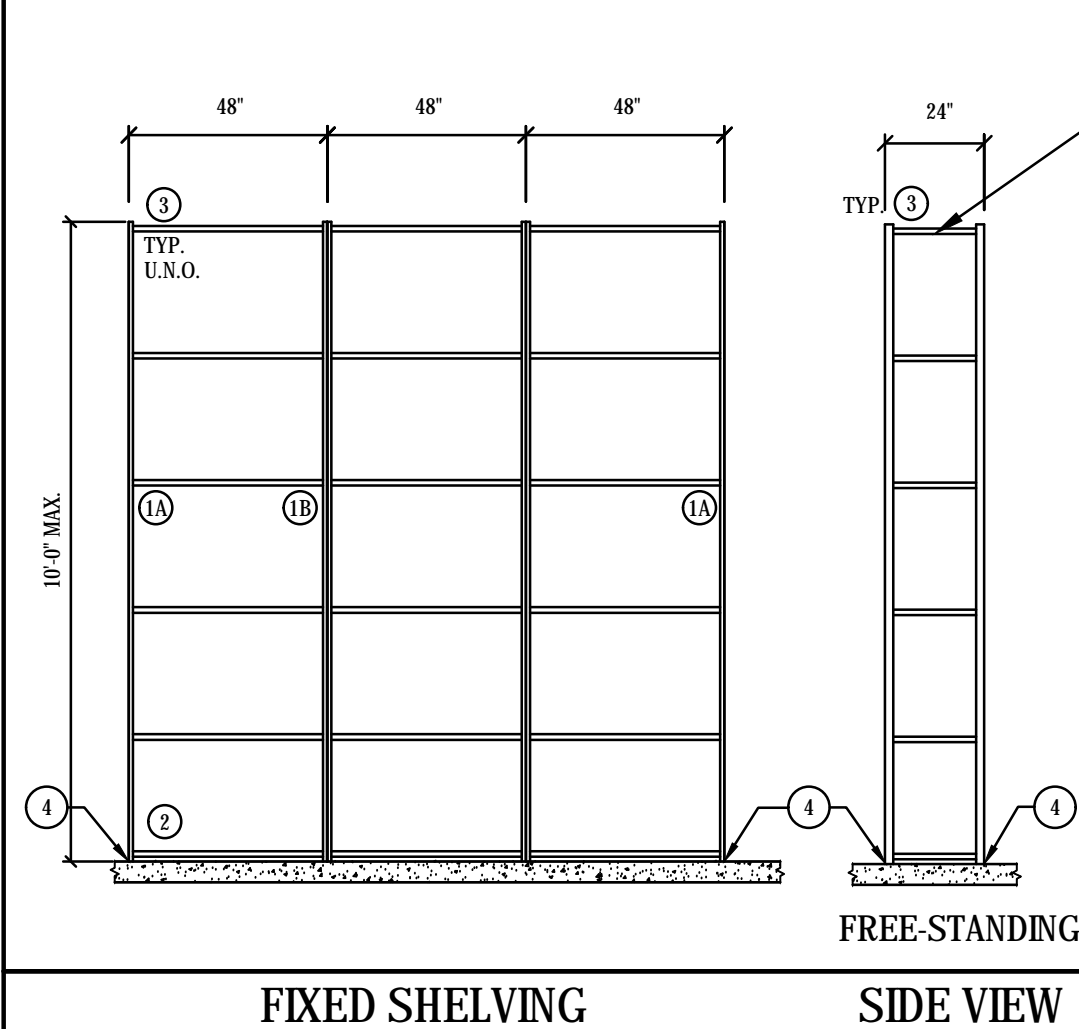


CARRIAGE AND TRACK ASSEMBLY

NOTE: FIXED/MOBILE RETAIL SHELVES SHALL BE RESTOCKED BY HAND. DO NOT USE A FORKLIFT OR OTHER MECHANIZED LOADER TO STOCK SHELVES. SHELVING UNITS SHALL BE MANUFACTURED BY THE TENNSCO CORPORATION, 1101 WEST FIRST STREET, DICKSON, TN 37055, 614-446-8000. LA-APPROVED FABRICATOR'S LICENSES = "FB02894", "FB02894-1", & "FB02894-2".

RIVET STYLE SHELVING, "FS-R" UNITS, CONSISTS OF THE FOLLOWING SHELVING QUANTITIES:

- TOTAL LENGTH = 48 LINEAR FEET OF SHELVING
- TOTAL AREA = 96 SQUARE FEET OF SHELVING



TOP SURFACE OF TOP SHELF SHALL REMAIN CLEAR OF MATERIALS.

SEE RETAIL STYLE SHELVING UNITS ON SHEET 1/3
SEE LAYOUT ON SHEET 3/3

- NOTES:
- DESIGN OF STEEL STORAGE SHELVING AS SHOWN BY THESE DRAWINGS AND CALCULATIONS ARE IN COMPLIANCE WITH THE REQUIREMENTS OF THE IBC 2015 EDITION WITH WASHINGTON AMENDMENTS.
 - STEEL FOR ANCHOR CLIPS SHALL BE ASTM A1018, STEEL FOR ALL OTHER SHAPES IS Fy = 36 KSI, ASTM A1011-12 GR 36 (EXCEPT AS NOTED)
 - ALL ANCHORS ARE 3/8" x 2" POWER STUD- SD2 (ESR-2502) WITH MIN 1-5/8" EMBEDMENT, OR APPROVED EQUAL (SPECIAL INSPECTION REQUIRED - REFERENCE SCHEDULE BELOW)
 - THE EXISTING FLOOR = MIN. 2-1/2" THICK CONCRETE SLAB OVER MIN. 1-1/2" x 22 GA METAL DECKING WITH Fc = 3000 PSI
 - STORAGE SHELVING CAPACITY = 150# PER LEVEL
 - ALL SHELVING INSTALLATIONS AND SHELVING MANUFACTURED IN CONFORMITY WITH THIS STANDARD SHALL DISPLAY IN ONE OR MORE CONSPICUOUS LOCATIONS A PERMANENT PLAQUE, EACH NOT LESS THAN 50 SQUARE INCHES IN AREA SHOWING THE MAXIMUM PERMISSIBLE UNIT LOAD PER LEVEL
 - ALL SHELVING SHALL BE IN COMPLIANCE WITH THE CURRENT RMI MH16.1
 - THE CLEAR SPACE BELOW SPRINKLERS SHALL BE A MINIMUM OF 18 INCHES BETWEEN THE TOP OF THE STORED MATERIAL AND THE CEILING SPRINKLER DEFLECTORS
 - THE SHELVING RACKS WILL NOT BE OPEN TO THE PUBLIC
 - SHELVING UNITS' MAXIMUM "OUT-OF-PLUMBNESS" SHALL BE 0.500 INCH IN 10 FT.
- EARTHQUAKE DESIGN DATA:
- Seismic Importance Factor, IE = 1.0
 - Building Risk Category II - Not open to the public
 - Mapped Spectral Response Accelerations, Ss = 1.253 and S1 = 0.483
 - Site Class = D
 - Spectral Response Coefficients, SDS = 0.828 and SD1 = 0.488
 - Seismic Design Category = D
 - Basic Seismic Force-Resisting System(s) - Non Building Structures, Steel Storage Racks
 - Design Base Shear = 230 lb
 - Seismic Response Coefficient, Vr = 0.418
 - Response Modification Factors, R = 4.0
 - Importance Factor, Ip = 1.0
 - Analysis Procedure per ASCE 7-10, Sec. 13.3.1 & 15.5.3.4

STATEMENT OF SPECIAL INSPECTION			
VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	POWER STUD - SD2
CONFIRM ANCHOR TYPE		X	POWERS POWER STUD- SD2, 3/8" DIA X 2" LONG - PER ICC-ES ESR-2502 SECTION 4.4, 5.2, TABLE B
CONFIRM CONCRETE COMPRESSIVE STRENGTH	X		MINIMUM 2500 PSI - PER ICC-ES ESR-2502 SECTION 2.0
CONFIRM CONCRETE THICKNESS	X		2.50" MINIMUM - PER ICC-ES ESR-2502 SECTION 4.3, 4.4, TABLE 2
HOLE DIAMETER		X	3/8" MINIMUM - PER ICC-ES ESR-2502 SECTION 4.3, 4.4, TABLE 2
CLEAN OUT OF HOLE		X	ROUING/BLIND OUT - PER ICC-ES ESR-2502 SECTION 4.3, 4.4
MINIMUM ANCHOR SPACING		X	6.00" - PER ICC-ES ESR-2502 SECTION 4.4, 5.7, TABLE 2
MINIMUM EDGE DISTANCE		X	2.75" - PER ICC-ES ESR-2502 SECTION 4.4, 5.7, TABLE 2
ANCHOR EMBEDMENT		X	1-3/8" - PER ICC-ES ESR-2502 SECTION 4.4, 4.4, 5.2, TABLE 2
TIGHTENING TORQUE		X	20 FT-LBS - PER ICC-ES ESR-2502 SECTION 4.3, 4.4, TABLE 2
Note: Inspections to be completed by a 3rd party inspector		X	
INSPECTED BY			SPECIAL INSPECTOR

GENERAL NOTES

JUN 15 2017

ECLIPSE

ENGINEERING

NORDSTROM RACK #139

THE VILLAGE AT TOTEM LAKE

12520 TOTEM LAKE BLVD - SUITE #120

KIRKLAND, WASHINGTON 98034

PIPPI RIVET STYLE

STEEL STORAGE RACK

DETAILS

DRAWN	CHECKED	REVIS	REVISED	REVISED
NSB	RFA			

ECLIPSE ENGINEERING

CONTACT INFO:

NICK BURNAM, PE

376 SW BLUFF DR, SUITE 8

BEND, OR 97702

(541) 389-9659

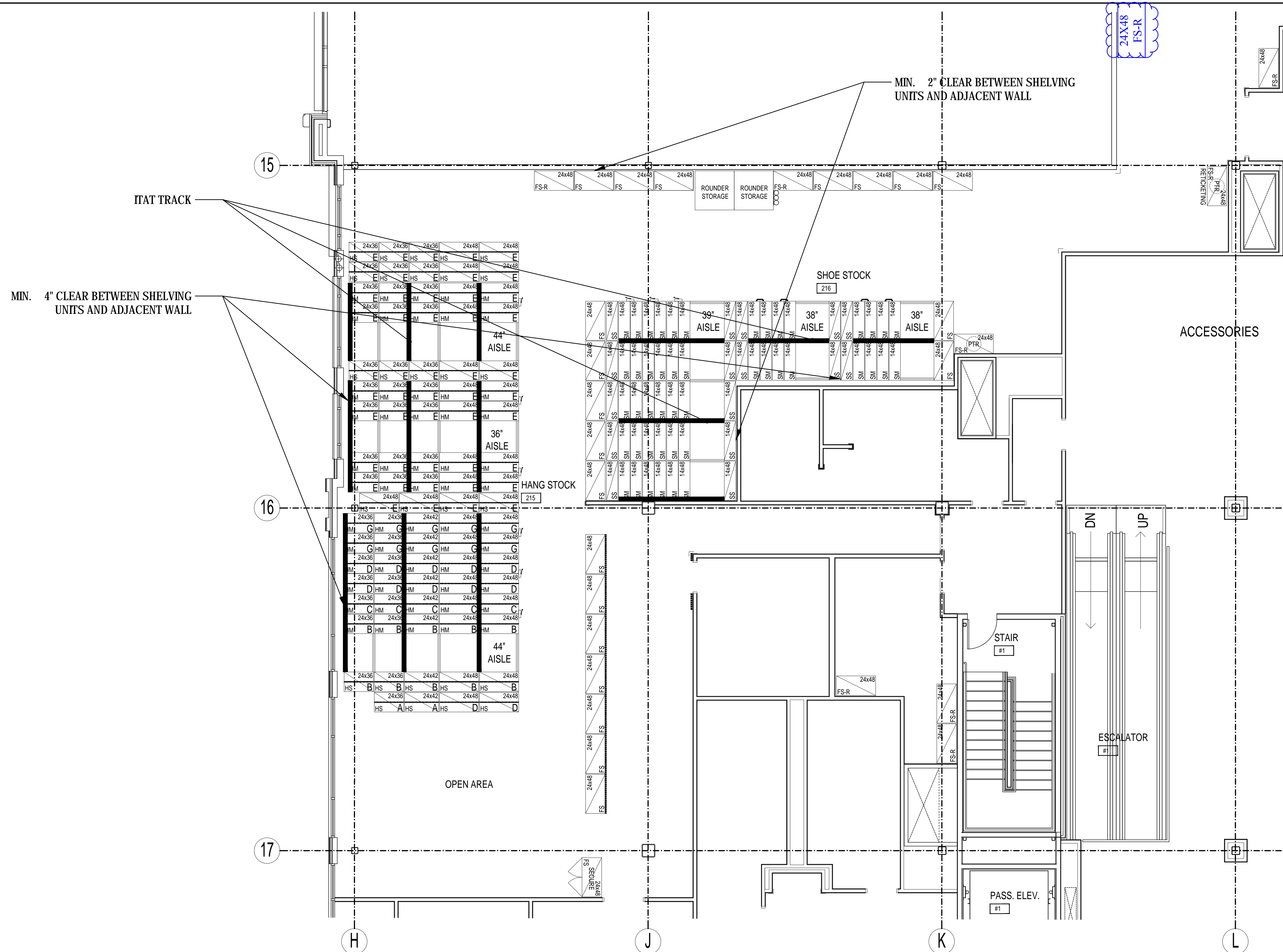
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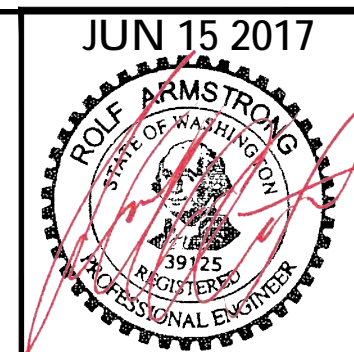
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PARTIAL FLOOR PLAN & SHELVING RACK LAYOUT
SCALE: 3/16" = 1'

- INDICATES:
- (1) SINGLE 48"x14" STATIONARY RETAIL-STYLE SHELVING UNIT
 - (2) SINGLE 48"x14" STATIONARY RETAIL-STYLE SHELVING UNITS SET IN BACK-TO-BACK POSITION
 - (3) SINGLE 48"x14" MOBILE RETAIL-STYLE SHELVING UNITS SET IN BACK-TO-BACK POSITION
 - (4) SINGLE 48"x24" STATIONARY RETAIL-STYLE HANG UNIT
 - (5) SINGLE 48"x24" STATIONARY RETAIL-STYLE HANG UNITS SET IN BACK-TO-BACK POSITION
 - (6) SINGLE 48"x24" MOBILE RETAIL-STYLE HANG UNITS SET IN BACK-TO-BACK POSITION
 - (7) SINGLE 48"x24" STATIONARY RIVET-STYLE SHELVING UNIT

City of Kirkland
Reviewed by J Minato
06/29/2017



ECLIPSE
ENGINEERING

NORDSTROM RACK #139
THE VILLAGE AT TOTEM LAKE
12520 TOTEM LAKE BLVD - SUITE #120
KIRKLAND, WASHINGTON 98034

PIPP MOBILE SYSTEM
STEEL STORAGE RACK
STOCKROOM LAYOUT

ECLIPSE ENGINEERING
CONTACT INFO:
NICK BURMAN, PE
376 SW BLUFF DR, SUITE 8
BEND, OR 97702
(541) 389-9659

17-05-262
06-01-2017

SHEET

3
3

P.O. #26923 S.O. #65553

DRAWN	CHECKED	REVISED	REVISED
NSB	RHA		