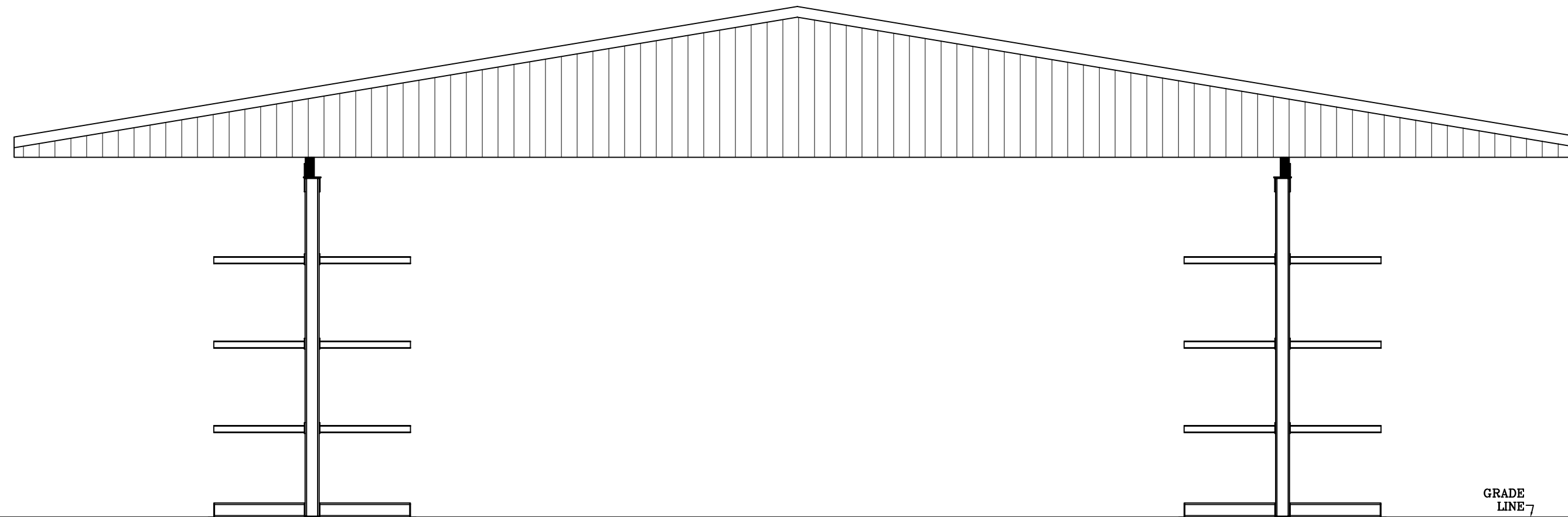


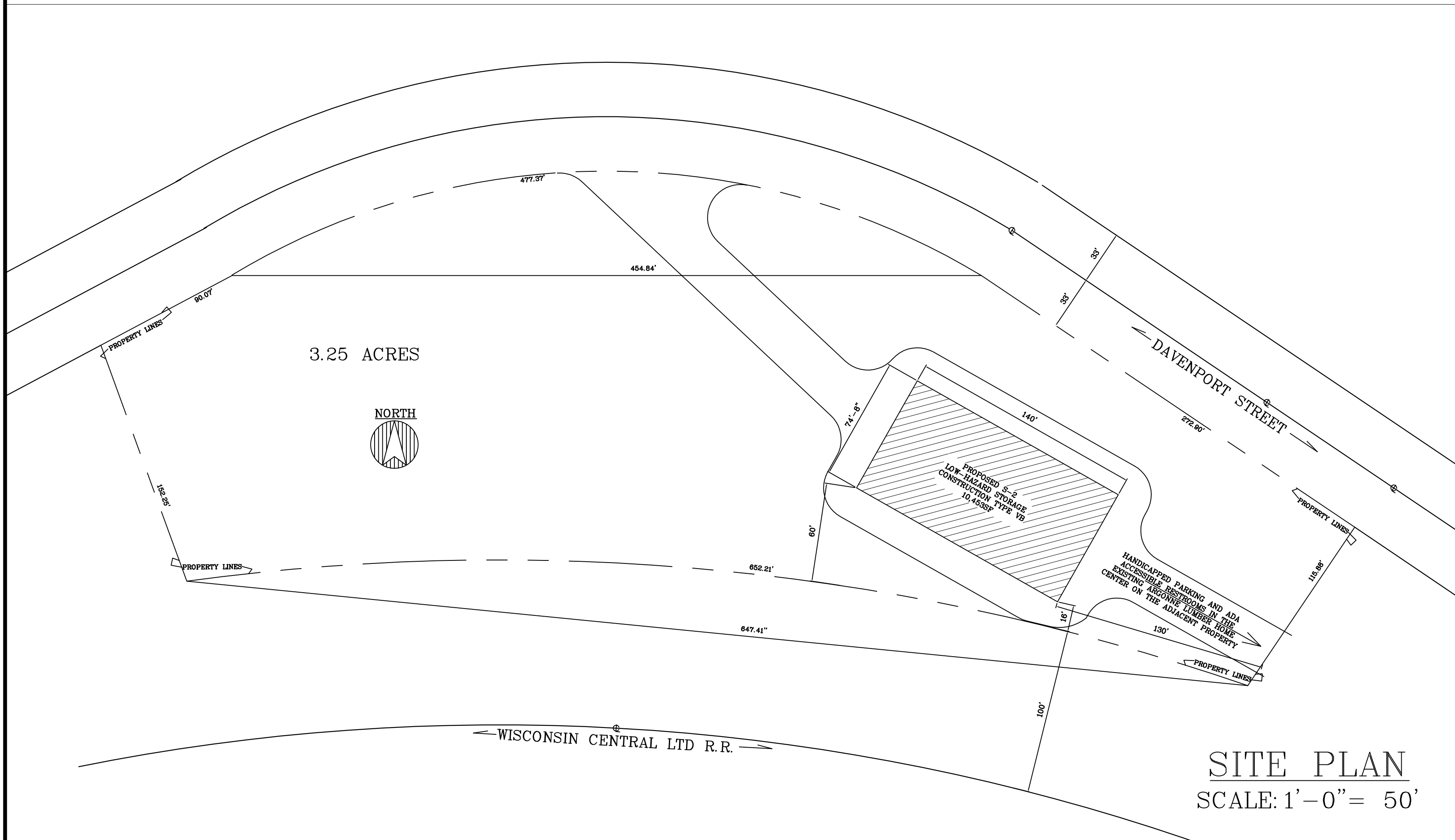
**SIDE ELEVATIONS**

SCALE: 1/8"=1'-0"



**END ELEVATIONS**

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



**SITE PLAN**

SCALE: 1'-0"= 50'

**GENERAL BUILDING SPECIFICATIONS**

ALL WORK GOVERNED BY STATE AND LOCAL CODES, ORDINANCES, AND REGULATIONS WHEREVER THEY MAY APPLY. DESIGNER'S LIABILITY TO THE PREPARATION OF THE DRAWINGS, WITH THE PARAMETERS CONTRACTED, AND ASCERTAINING CODE COMPLIANCE.

BUILDING OCCUPANCY: 1 S2 LOW HAZARD STORAGE, UNCONDITIONED, UNATTENDED STORAGE

OWNER: ARGONNE LUMBER & SUPPLY, INC.  
ALLEN KEEPERS

BUSINESS ADDRESS: 7595 STATE HWY 32 & 55  
ARGONNE WI 54511

BUILDING ADDRESS: 1015 WEST DAVENPORT  
RHINELANDER WI 54501

**GENERAL REQUIREMENTS:**  
 -NOTES & DETAILS ON THE DRAWINGS WILL TAKE PRECEDENCE OVER THESE GENERAL NOTES.  
 -ALL MATERIALS AND WORK PERFORMED SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF THE WISCONSIN ADMINISTRATIVE CODE INCLUDING ALL LOCAL ORDINANCES AND AMENDMENTS.  
 -ALL MATERIALS SHALL BE FURNISHED AS SHOWN HEREIN UNLESS THE OWNER OR ENGINEER APPROVES EQUAL OR BETTER ALTERNATIVES.  
 -NO CHANGES ARE TO BE MADE TO THESE PLANS WITHOUT THE KNOWLEDGE AND WRITTEN CONSENT OF THE ENGINEER OF RECORD.  
 -THE CONTRACT DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE AND DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES, INCLUDED BUT NOT LIMITED TO BRACING AND SHORING. OBSERVATION VISITS TO THE SITE BY THE ENGINEER AND/OR THE ENGINEER'S REPRESENTATIVES SHALL NOT INCLUDE INSPECTION OF THE PROTECTIVE MEASURE OR THE CONSTRUCTION PROCEDURES.

**DESIGN LOADS AND CRITERIA:**  
 -LOADS TO BE APPLIED IN ACCORDANCE WITH THE REQUIREMENTS OF THE WISCONSIN ADMINISTRATIVE CODE. SEE ATTACHED CHART.  
 -THE MINIMUM COMPRESSIVE STRENGTH OF CONCRETE (f'c) AT 28 DAYS SHALL BE:  
 --SLAB ON GRADE - 3,500 PSI  
 --FOUNDATION - 3,500 PSI  
 --WALLS - 4,000 PSI  
 --DRY PACK OR GROUT FOR BASE PLATES - 4,000 PSI  
 --REINFORCED STEEL - Fy = 60,000 PSI (ASTM A615, GRADE 60)  
 -STRUCTURAL STEEL:  
 --WF SHAPES - Fy = 50,000 PSI (ASTM A992)  
 --STRUCTURAL TUBING - Fy = 46,000 PSI (ASTM 500, GRADE B)  
 --STRUCTURAL PIPES - Fy = 35,000 PSI (ASTM A53, GRADE B)  
 --PLATES, ANGELES, MISC. SHAPES - Fy = 36,000 PSI (ASTM A36)  
 --WELDING ELECTRODES E70XX (AWW D1.1-86)  
 -COMPRESSIVE STRENGTH OF CONCRETE MASONRY: -f'm = 1,500 PSI USING TYPE 'M' OR 'S' MORTAR  
 -WOOD MEMBER SHALL BE THE FOLLOWING SPECIES AND GRADES:  
 --WALL STUDS - SPF STUD GRADE OR BETTER  
 --RAFTERS & LINTELS - SYP #1 OR BETTER  
 --JAMBS & COLUMNS - SPF #2 OR BETTER  
 --L.V.L.'s - MUST EQUAL Fb = 2,000,000 PSI OR BETTER

**DESIGN METHODS:**  
 -BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318-95)  
 -MANUAL OF STEEL CONSTRUCTION, ALLOWABLE STRESS DESIGN (AISC NINTH EDITION)  
 -COLD FORMED STEEL DESIGN MANUAL (ACSI 1986 WITH 1989 ADDENDUM)  
 -BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURE (ACI-530-92 / ASCE 5-95 / TMS 408-95 / NCMA)  
 -STEEL JOIST INSTITUTE (SJI), STANDARD SPECIFICATIONS AND LOAD TABLES FOR STEEL JOIST & JOIST GIRDERS - LATEST EDITION.  
 -STEEL DECK INSTITUTE (SDI), SPECIFICATIONS FOR ROOF & FLOOR DECK - LATEST EDITION  
 -NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION (NDS - REVISED 2001 EDITION)

**CONCRETE SPECIFICATIONS:**  
 -TRANSIT MIXED CONCRETE SHALL CONFORM TO ASTM C94 SPECIFICATIONS FOR READY-MIXED CONCRETE.  
 -THE WATER CEMENT RATIO SHALL BE KEPT TO A MINIMUM AND CONCRETE SLUMP SHALL NOT EXCEED 4 INCHES WHEN TESTED IN ACCORDANCE WITH ASTM C143.  
 -CONCRETE SHALL HAVE THE REQUIRED MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS WHEN TESTED ACCORDING TO ASTM C39.  
 -PORTLAND CEMENT SHALL CONFORM TO ASTM C150 SPECIFICATIONS FOR PORTLAND CEMENT.  
 -FINE AND COURSE AGGREGATES SHALL CONSIST OF CLEAN HARD STONES AND DURABLE INERT MATERIAL FREE OF INJURIOUS AMOUNTS OF DELETERIOUS SUBSTANCES AND CONFORM TO ASTM C33 SPECIFICATIONS FOR CONCRETE AGGREGATES.  
 -MIXING WATER SHALL BE FREE OF ANY ACID, ALKALI, OIL, OR ORGANIC MATERIAL THAT MAY INTERFERE WITH THE SETTING OF THE CEMENT.  
 -ALL EXTERIOR CONCRETE SHALL BE AIR-ENTRAINED THE ENGINEER SHALL APPROVE ALL ADMIXTURE.  
 -REINFORCING BARS TO BE WELDED SHALL BE IDENTIFIED AS GRADE 60.  
 -WELDED WIRE FABRIC, OF GAUGE & SPACING SPECIFIED, SHALL CONFORM TO THE REQUIREMENTS OF ASTM A82.  
 -REINFORCING SHALL HAVE THE MINIMUM COVER REQUIREMENTS AS INDICATED IN ACI-318, THE LATEST EDITION WITH THE FOLLOWING MINIMUM VALUES:  
 --CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH - 3 INCHES  
 --PERMANENTLY EXPOSED TO EARTH OR WEATHER: #5 AND SMALLER BARS - 1 1/2 INCHES  
 #6 AND LARGER BARS - 2 INCHES  
 -ALL CONCRETE SHALL CURE A MINIMUM OF 7 DAYS. IF THE FORMS ARE REMOVED BEFORE THE END OF THE CURING PERIOD, COAT SURFACED WITH LIQUID CURING COMPOUND.  
 -PROVIDE DOWELS IN WALL FOOTINGS WITH EQUAL SIZE AND SPACING AS VERTICAL WALL STEEL, UNLESS NOTED OTHERWISE.  
 -ALL CONCRETE SLABS SHALL BE REINFORCED AS INDICATED ON THE DRAWINGS. FIBER REINFORCED CONCRETE MAY BE USED IN THE FLOOR SLABS IN ADDITION TO THE REQUIRED REINFORCING AT DOSAGE RATE ACCORDING TO THE SPECIFICATIONS.  
 -CONCRETE BEAMS SHALL HAVE A MINIMUM 8 INCHES OF BEARING ON WALLS AND CONCRETE SLABS SHALL HAVE A MINIMUM 4 INCHES OF BEARING ON WALLS.  
 -USE NON-SHRINK, NON-METAL GROUT UNDER BASE PLATES AS INDICATED ON THE DRAWINGS.  
 -DIMENSIONS OF THE FINISHED PRODUCT SHALL BE WITHIN THE LIMITS RECOMMENDED BY ACI 117.  
 -THE CONCRETE CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES FOR SIZE AND LOCATION OF ALL OPENINGS IN WALLS AND FLOORS. ALL OPENINGS IN STRUCTURAL CONCRETE SHALL BE DETAILED OR APPROVED BY THE ENGINEER.

**SITE PREPARATION:**  
 -ALL SITE PREPARATION IS THE RESPONSIBILITY OF THE OWNER. THIS BUILDING REQUIRES A MINIMUM SOIL BEARING CAPACITY OF 2000 LBS. PER SQ. FT. MRP BUILDERS, INC. RECOMMENDS HIRING A SOILS ENGINEER IF THE SOILS CANNOT MEET OR EXCEED 2000 LBS. PER SQ. FT. OF IF THERE IS A WET SOIL CONDITION OF IF A DRAINAGE PROBLEM EXISTS. EXCAVATION IS THE RESPONSIBILITY OF THE OWNER UNLESS THE EXCAVATION IS PART OF MSP BUILDER'S INC. CONTRACT.  
**SITE DRAINAGE:**  
 -ALL DRAINAGE ON THE BUILDING SITE SHALL BE AWAY FROM THE BUILDING. A DRAINAGE PLAN SHALL BE PART OF THE SITE PREPARATION. THE SITE SHALL BE GRADED TO THE REQUIRED ELEVATIONS IN THE DRAINAGE PLAN AND IS THE RESPONSIBILITY OF THE PERSON IN CHARGE OF THE EXCAVATION.  
**FOUNDATION PREPARATION WORK:**  
 -THE FOUNDATION BEARING VALUE IS PRESUMED TO BE 2,000 LBS. PER SQ. FT. UNLESS A SOIL ENGINEERING STUDY HAS BEEN DONE. ( USE ALTERNATE SBD 20071-A )  
 -IF A SOIL ENGINEERING STUDY HAS BEEN COMPLETED IT WILL BECOME A PART OF THE SPECIFICATIONS FOR THIS BUILDING PROJECT AND SHALL BE FOLLOWED IN THE SITE PREPARATION.  
 -IF NO SOIL ENGINEERING STUDY HAS BEEN DONE, SITE PREPARATION SHALL BE DONE IN THE FOLLOWING MANNER:  
 --COMPLETE NORMAL CLEARING AND GRUBBING OPERATION OVER THE ENTIRE BUILDING PAD AREA. THE BUILDING PAD IS DEFINED AS AN AREA EXTENDING A MINIMUM OF 5 FEET BEYOND THE PROPOSED BUILDING LINES INCLUDING DRIVEWAYS AND SIDEWALKS.  
 --REMOVE UNSUITABLE MATERIAL BELOW THE FOUNDATION. THE DEPTH OF THE REMOVAL IS DICTATED BY THE UNSUITABLE SOILS ENCOUNTERED SUCH AS SILT, ORGANIC MATTER, ROOTS, AND VEGETATION AND RANDOM FILL MATERIALS LIKE WOOD, TINNS, ASPHALT, AND MUCK.  
 --FILL MATERIALS REQUIRED SHALL BE PLACED IN LIFTS NOT TO EXCEED 18 INCHES AND COMPACTED TO 95% MODIFIED PROCTOR (ASTM D1557, LATEST EDITION) AT OPTIMUM MOISTURE CONTENT WITHIN A DISTANCE OF 5 FEET BEYOND ALL FOOTING EDGES.  
 --FOOTING SHALL BE PLACED ON VIRGIN SOIL OR FILL THAT HAS BEEN BACK FILLED AND COMPACTED TO 95% MODIFIED PROCTOR (ASTM D1557, LATEST EDITION) AT OPTIMUM MOISTURE CONTENT.  
 --6 INCHES MINIMUM OF WELL COMPACTED GRANULAR MATERIAL TO BE PLACED UNDER THE FLOOR SLAB

**ANCHOR BOLTS:**  
 -AS REQUIRED - ANCHOR BOLTS SHALL BE AS SHOWN ON THIS DRAWING AS PROVIDED BY THE FRAME FABRICATOR  
 -EXPANSION ANCHORS SHALL BE DRILLED ACCORDING TO THE MANUFACTURE'S INSTRUCTION WITH THE PROPER BIT FOR THE SIZE AND TYPE OF ANCHOR BOLT BEING SPECIFIED.  
**ROOFING, SIDING, & STEEL TRIM:**  
 -29 GAUGE "WHEELING" OR EQUAL, HIGH TENSION STEEL W/ A SILICONIZED POLYESTER FINISH. STEEL TO BE APPLIED IN LONG LENGTHS AND ACCORDING TO THE MANUFACTURE'S SPECIFICATIONS. STANDARD ERECTION AND FASTENING DETAILS ARE ON THE DRAWING.  
**CARPENTRY:**  
 -STANDARD CONSTRUCTION DETAIL AND PRACTICES GOVERN. ANCHOR BUILDING AND ROOF TRUSSES AS SHOWN ON THE PLANS. ALL MATERIALS MEET OR EXCEED:  
 --2x4's, 6's, & 8's SPF ARE #2 GRADE OR BETTER  
 --2x4's, 6's, 8's, & 10's TPP ARE #2 GRADE OR BETTER  
 --2x4's, 6's, 8's, 10's, & 12's, SYP ARE #1 GRADE, KD 19%  
 --2x6's, 8's, 10's, & 12's, SYP ARE #1 GRADE, KD 19%  
 --2x4's, 6's, 8's, 10's, & 12's MSR 1650 Fb, 1800 Fb, 2100fb, 2250fb,  
 DR 2400fb AS REQUIRED & INDICATED ON THE PLAN  
 --1-3/4" WIDE "LVL" ARE #1 SYP LAMINATED LUMBER 2900fb  
 --SPF = SPRUCE-PINE-FIR  
 --SYP = SOUTHERN YELLOW PINE  
 --TPP = PINDEROSA PINE WITH 0.4 PCF CCA TREATMENT  
 --SYP = SOUTHERN YELLOW PINE WITH 0.6 PCF CCA TREATMENT

**ELECTRICAL:**  
 -ALL WORKMANSHIP AND MATERIALS TO CONFORM TO THE CURRENT STATE AND ELECTRICAL CODES. LOCAL ORDINANCES AND RULES OF THE POWER CO., GENERAL ILLUMINATION AND LIGHT LEVELS TO CONFORM WITH OSHA STANDARDS. IF PLANS ARE REQUIRED, THEY WILL BE SUBMITTED BY ELECTRICAL CONTRACTOR. ALL ELECTRICAL WORK TO BE COMPLETE OTHERS.  
**FIRE PROTECTION:**  
 --[ ] = FIRE EXTINGUISHER 'SENTRY' MODEL 3A-20BC OR EQUAL WITH WALL MOUNTED BRACKET TYPICAL.  
**HEATING, VENTILATION, & AIR CONDITIONING:**  
 --NO HVAC PLANS REQUIRED FOR COOLD STORAGE  
**PLUMBING:**  
 --NONE

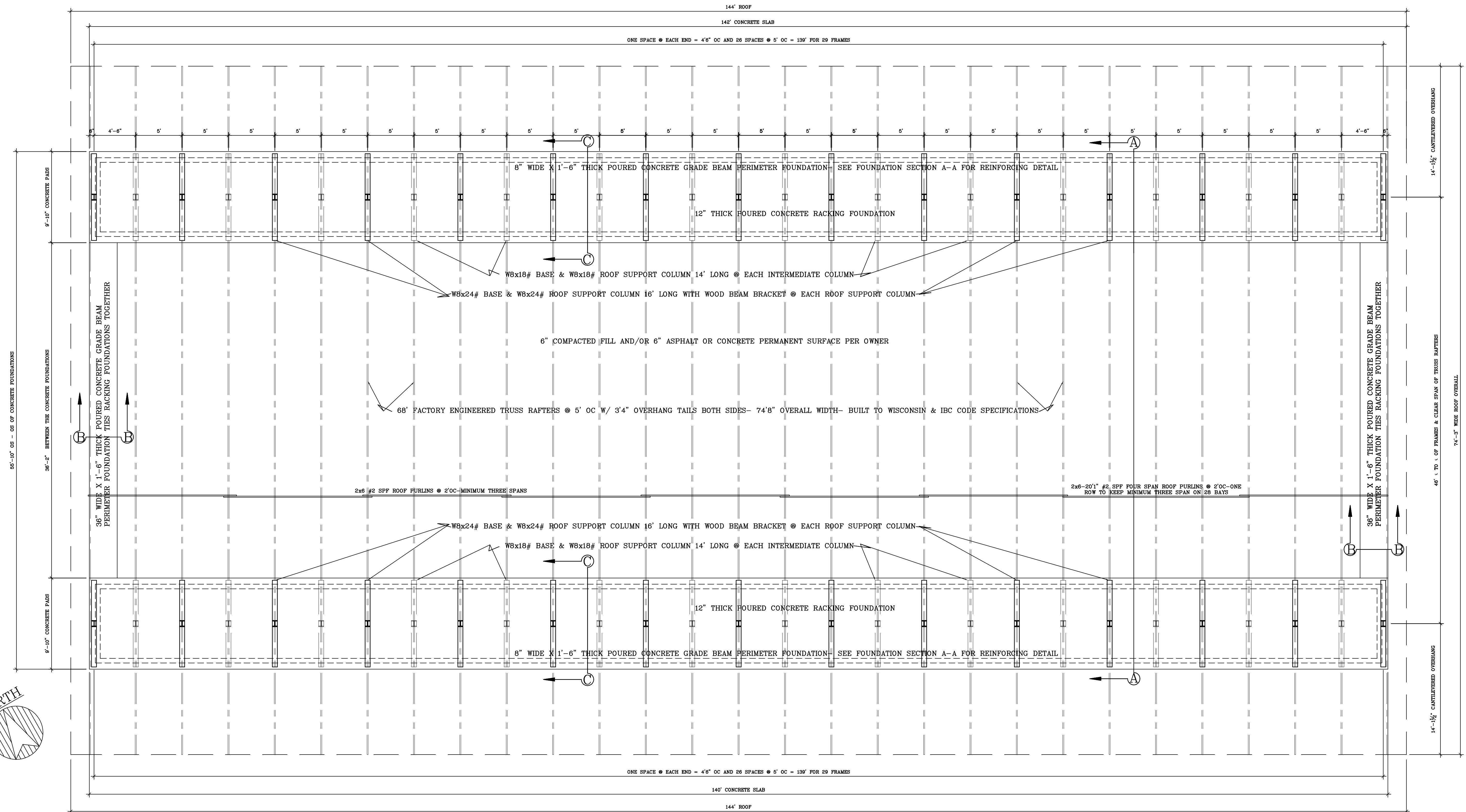
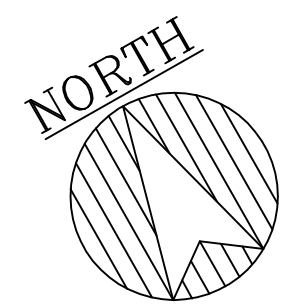
**PARKING REQUIREMENTS:**  
 -HANDICAPPED PARKING STALLS SHALL BE PROVIDED AT THE RATE OF 5% OF THE TOTAL STALLS REQUIRED. ALL ACCESSIBLE STALLS TO BE MARKED WITH PAVEMENT MARKINGS AND THE REQUIRED HANDICAPPED SIGNS. ALL SIDEWALKS FROM PARKING STALLS WILL BE ACCESSIBLE WITHOUT STEPS.

DESIGN LOADS	
<b>SNOW LOAD</b>	GROUND SNOW LOAD (Pg) = 60 PSF SNOW EXPOSURE FACTOR (Ce) = 1.0 SNOW LOAD IMPORTANCE FACTOR (Is) = 0.8 ROOF THERMAL FACTOR (Ct) = 1.2 FLAT ROOF SNOW LOAD = 33.6 PSF SLOPED ROOF / FLAT ROOF LOAD (Ps) = .94 BALANCED SNOW LOAD = 40.3 PSF UNBALANCED SNOW LOAD = 0 / 34.6
<b>TRUSS DESIGN</b>	TOP CHORD LIVE LOAD = 40.4 PSF TOP CHORD DEAD LOAD = 4 PSF BOTTOM CHORD DEAD LOAD = 2 PSF
<b>WIND LOAD</b>	90 MPH WIND, WIND EXPOSURE 'C' WIND IMPORTANCE FACTOR (I) = 1.0 BUILDING ENCLOSURE TYPE -- ENCLOSED INTERNAL PRESSURE COEFFICIENT = +/- 0.18 COMPONENT & CLADDING DESIGN PRESSURE = +19.2, -20.8 PSF
<b>SEISMIC LOAD</b>	SEISMIC IMPORTANCE FACTOR (Ie) = 1 SITE CLASS = 'D' SEISMIC DESIGN CATEGORY = 'A' SPECTRAL RESPONSE COEFFICIENTS: Sds = 8.2% Sd1 = 5.8%
<b>FLOOR LOAD</b>	NONE
<b>CONCRETE REQUIREMENTS</b>	COMPRESSIVE STRENGTH - 3500 PSI MINIMUM AT 28 DAYS
<b>SOILS INFORMATION</b>	CLASS OF MATERIALS - 4 FIRM ALLOWABLE SOIL PRESSURE - 2000 PSF

SHEET INDEX	
PAGE / DATE	CONTENTS
Bestimate LLC Sheet 1 OF 3 12feb16	- SITE PLAN - GENERAL SPECIFICATIONS - BUILDING ELEVATIONS
Bestimate LLC Sheet 1 OF 3 12feb16	- BUILDING FLOOR AND FOUNDATION PLAN
Bestimate LLC Sheet 1 OF 3 12feb16	- BUILDING CROSS SECTION & CONCRETE SECTIONS
ATTACHED	- INTERLAKE MECALUX TITLE SHEET, A1 & A2 RACKING SUBMITTAL

SCALE: Noted DATE: 2/10/2015 NAME: BL DIM: 15-232 Dwg. No. 15-232 CADD L.L.: ArgonneLumber Rhinelande RackingStorageWarehousePlan 21oct15 REVISIONS: 12FEB16 17FEB16  
 PROPOSED LUMBER STORAGE BUILDING FOR ARGONNE LUMBER  
**BESTIMATE LLC**  
<http://bestimate.com>  
 714 E Ninth St  
 Marshfield, WI 54449  
 bob@bestimate.com  
 715-506-0040  
 PAGE NO. 1 SHEET OF 3



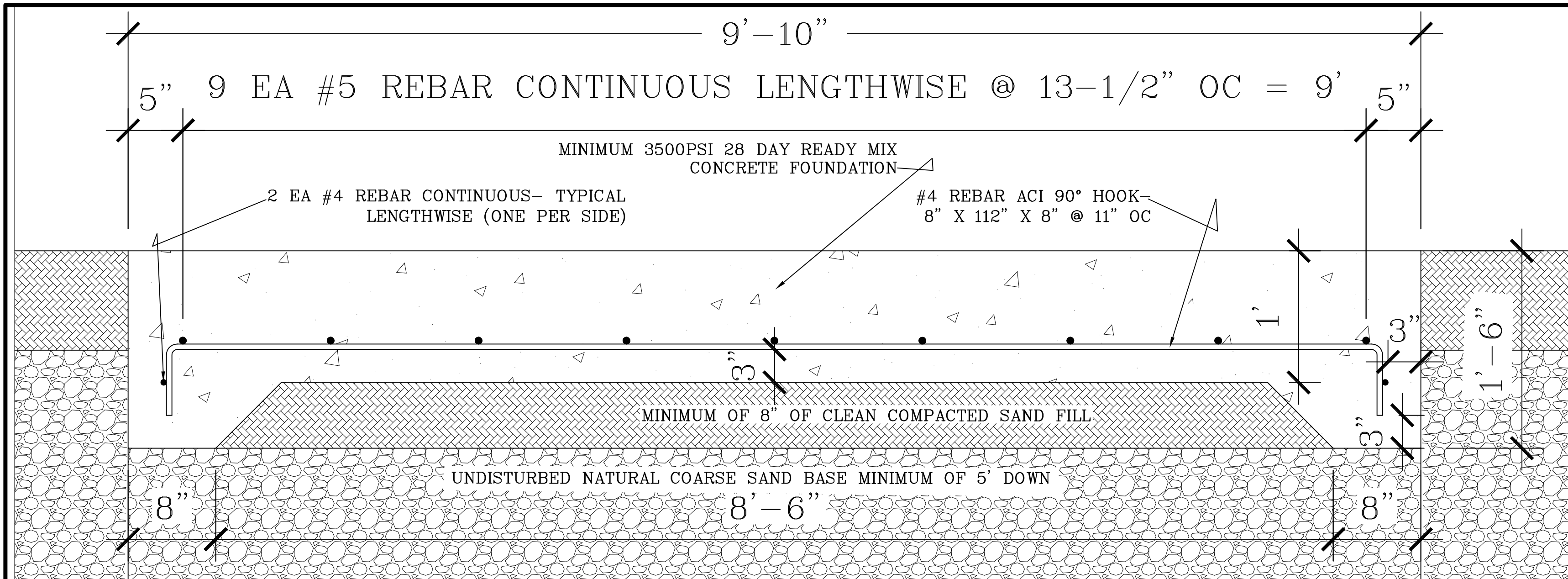
FLOOR & FOUNDATION PLAN  
 SCALE: 3/16"=1'-0"

SCALE/NOTED	21OCT15
DATE	BL
NAME	ARGONNE LUMBER RHEINELANDER
DWG. NO.	15-232
CAD FILE	ArgonneLumber Rheinlander RackingStorageWarehousePlan 21oct15
REVISIONS	12FEB16 24MAR16

PROPOSED LUMBER STORAGE BUILDING FOR  
 ARGONNE LUMBER  
 RHEINELANDER WI

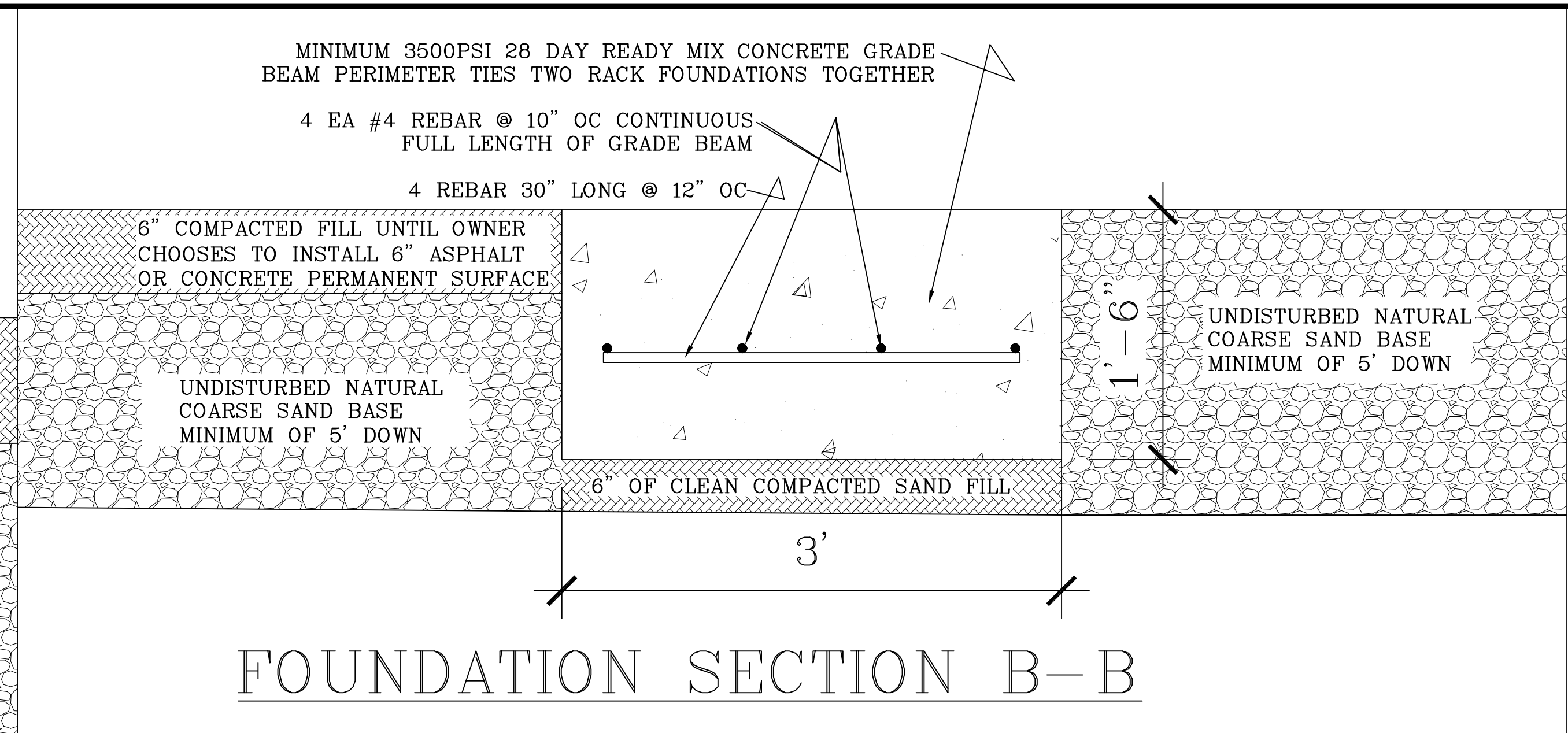
**BESTIMATE LLC**  
<http://bestimatellc.com>  
 714 E Ninth St  
 Marshfield, WI 54449





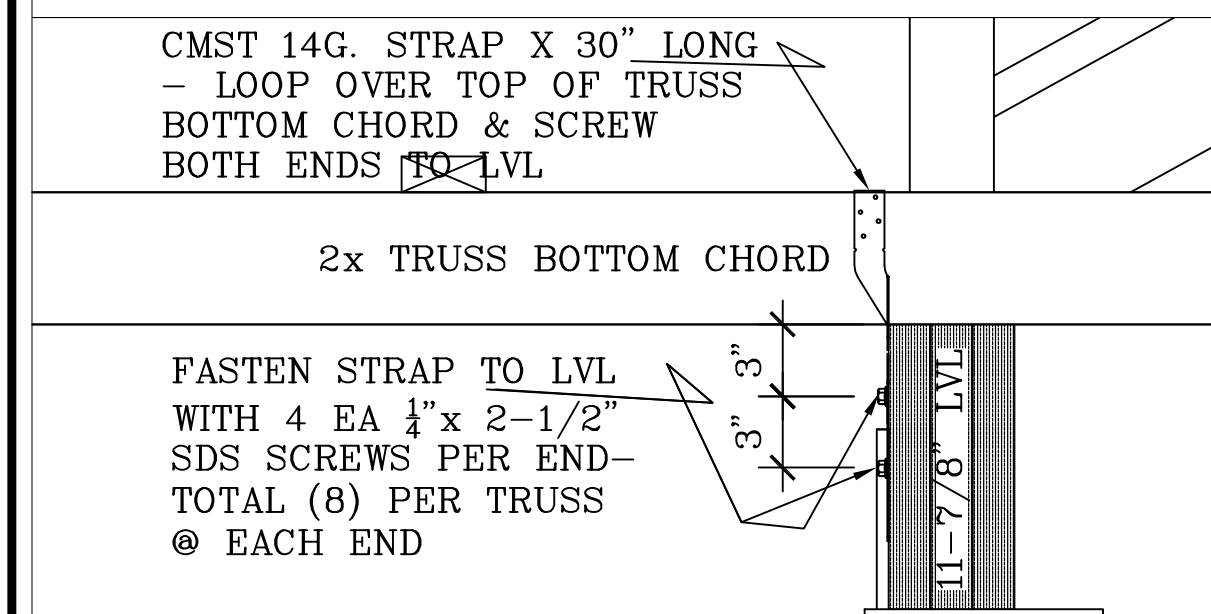
FOUNDATION SECTION C-C

SCALE: 1-1/2" = 1'-0"



FOUNDATION SECTION B-B

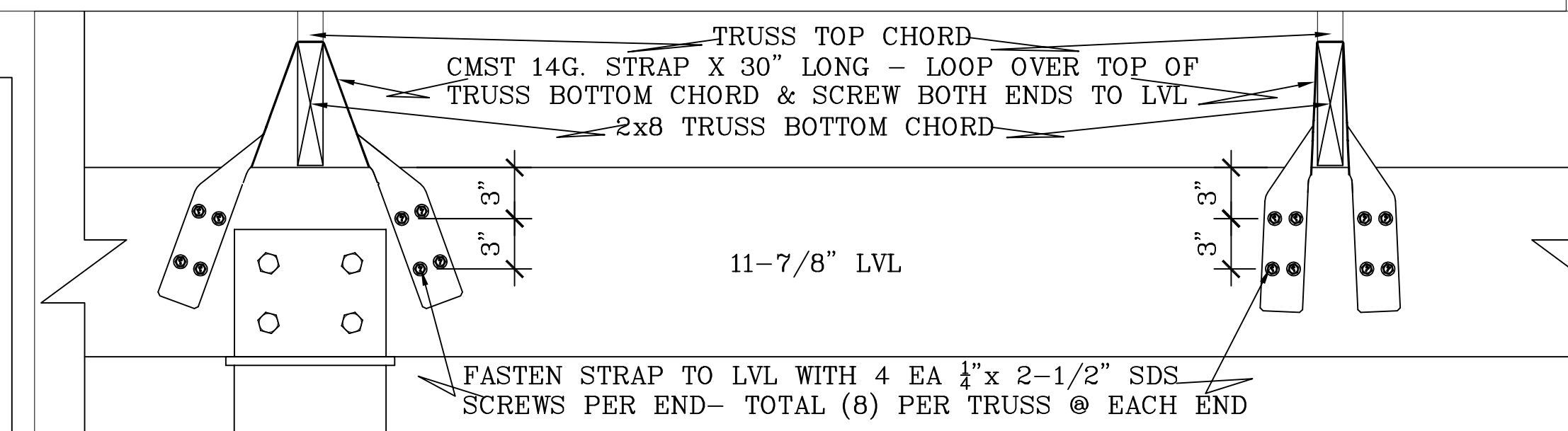
SCALE: 1-1/2" = 1'-0"



TRUSS CONNECTION  
END DETAIL D

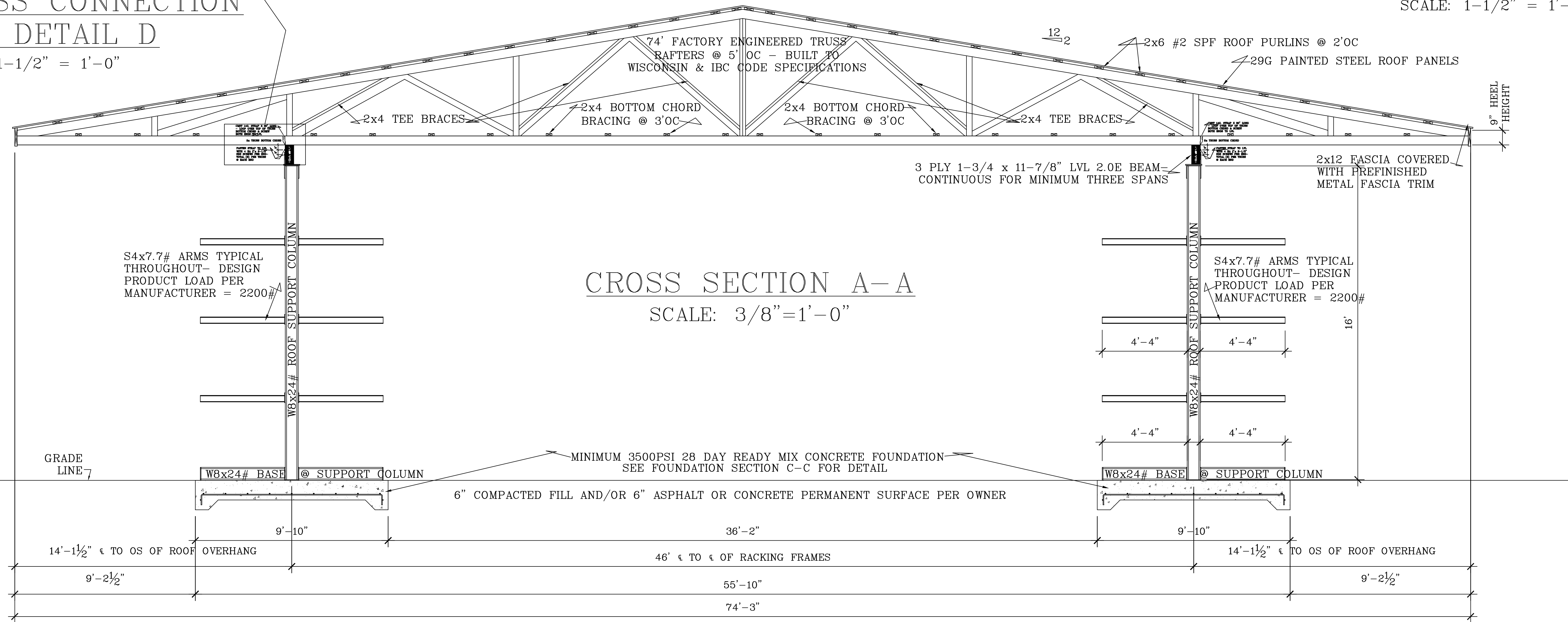
SCALE: 1-1/2" = 1'-0"

Per IBC 1809.5, natural existing coarse sandy soils provide non-frost susceptible soil to a depth of 5' or more that is below anticipated frost depth. This Frost Protected Shallow Foundation is Designed to conform with ASCE 32 requirements by using Non-Frost Susceptible Soils that are Native Natural Soils to a dept of 5' below finished grade. NOTE: Various construction done on the owners existing lumber yard in the adjacent property over many years has found this area of Oneida County to have sandy soil at least 5' down.



TRUSS CONNECTION SIDE DETAIL E

SCALE: 1-1/2" = 1'-0"



CROSS SECTION A-A

SCALE: 3/8" = 1'-0"

SCALE: Noted	DATE: 21OCT15
NAME: BL	
DWG. NO: 15-232	
CAD FILE: ArgonneLumber Rhineland RackingStorageWarehousePlan 21oct15	
REVISIONS:	
12FEB16 17FEB16 24MAR16	

PROPOSED LUMBER STORAGE BUILDING FOR  
ARGONNE LUMBER  
RHINELANDER WI

**BESTIMATE LLC**



http://bestimatellc.com  
714 E Ninth St  
Marshfield, WI 54449  
bob@bestimatellc.com  
715-506-0040