GENERAL NOTES GENERAL REQUIREMENTS DESIGN CRITERIA **FOUNDATIONS** NOTES AND DETAILS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER THESE FOUNDATIONS SHALL NOT BE PLACED PRIOR TO CONFIRMATION OF THE SOIL MINIMUM COMPRESSIVE STRENGTH OF CONCRETE (f'c) AT 28 DAYS SHALL BE: TYPE AT A DEPTH OF THE FOOTING ELEVATION. THE CONTRACTOR SHALL SLAB-ON-GRADE 4000 PSI (MAX 3/4" AGGREGATE) PROVIDE TEST HOLE REPORT TO THE ENGINEER OF RECORD. THE SOIL FOOTINGS 3500 PSI (MAX 1 1/2" AGGREGATE) ALL MATERIALS AND WORK PERFORMED SHALL CONFORM TO THE REQUIREMENTS OF BEARING CAPACITY IS PRESUMED TO BE 2,000 PSF. SOIL TYPE IS FOUNDATION WALLS 4000 PSI (MAX 3/4" AGGREGATE) THE 2018 WISCONSIN COMMERCIAL BUILDING CODE INCLUDING LOCAL ORDINANCES REINFORCING STEEL SHALL BE: COMPLETE NORMAL CLEARING AND GRUBBING OPERATION OVER THE ENTIRE Fy = 60 KSI (ASTM A615, GRADE 60) NON WELDABLE ALL MATERIAL SHALL BE FURNISHED AS SHOWN HEREIN UNLESS THE OWNER OR ENGINEER OF RECORD APPROVES EQUAL ALTERNATIVES BUILDING PAD AREA. THE BUILDING PAD AREA IS DEFINED AS AN AREA EXTENDING A MINIMUM OF 5 FEET BEYOND THE PROPOSED BUILDING LINES WELDABLE MARKED AS GRADE 60W WOOD MEMBERS SPECIES AND GRADES ARE TO BE CALLED OUT ON PLANS AND REMOVE UNSUITABLE MATERIAL BELOW FOUNDATION. THE DEPTH OF THE NO CHANGES ARE TO BE MADE TO THESE PLANS WITHOUT THE KNOWLEDGE AND SHALL HAVE THE FOLLOWING STRENGTHS: WRITTEN CONSENT OF THE ENGINEER OF RECORD. THE CONTRACT DRAWINGS AND REMOVAL IS DICTATED BY THE UNSUITABLE SOILS ENCOUNTERED SUCH AS SILT, ORGANIC MATTER SUCH AS ROOTS AND VEGETATION, AND RANDOM FILL SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE AND DO NOT INDICATE THE Fb = 875 PSIMETHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE MATERIALS SUCH AS WOOD, TINS, ASPHALT, MUCK, ETC. WORK AND SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, E = 1,400,000 PSITECHNIQUES, AND SHORING. OBSERVATION VISITS TO THE SITE BY THE ENGINEER FILL MATERIALS REQUIRED SHALL BE PLACED IN LIFTS NOT TO EXCEED 12 OF RECORD AND/OR THE ENGINEER'S REPRESENTATIVE (S) SHALL NOT INCLUDE INCHES AND COMPACTED TO 95% MODIFIED PROCTOR (ASTM D1557, LATEST INSPECTION OF THE PROTECTIVE MEASURES OF THE CONSTRUCTION PROCEDURES EDITION) AT OPTIMUM MOISTURE CONTENT WITHIN A DISTANCE OF 5 FEET BEYOND ALL FOOTING EDGES E = 1,700,000 PSISIX INCHES MINIMUM GRANULAR MATERIAL TO BE PLACED UNDER THE FLOOR MSR 1650 Fb = 1,650 PSIDESIGN LOADS Fv = 165 PSIE = 1,600,000 PSIDEAD: ROOF DEAD LOAD = 12 PSF WOOD TRUSSES GROUND SNOW LOAD (Pg) = 35 PSF WOOD TRUSSES SHALL BE FABRICATED BY AN AUTHORIZED TRUSS IMPORTANCE FACTOR (Is) = 1.0 MANUFACTURER IN ACCORDANCE WITH THE DESIGN(S) AS PREPARED BY THE THERMAL FACTOR (Ct) = 1.1 TRANSIT MIXED CONCRETE SHALL CONFORM TO ASTM C94, SPECIFICATION FOR READY—MIXED CONCRETE EXPOSURE FACTOR (Ce) = 1.0 SLOPE FACTOR (Cs) FIVE BOUND SETS OF ENGINEERING DRAWINGS, SHOWING CONFORMANCE TO TH SLOPED ROOF SNOW LOAD (Ps) = 26.95 PSF THE WATER CEMENT RATIO SHALL BE KEPT TO A MINIMUM AND CONCRETE DESIGN LOADS AND CODE DEFLECTION CRITERIA AND INDICATING MEMBER SIZES UNBALANCE SNOW LOAD = SEE DIAGRAM BELOW SLUMP SHALL NOT EXCEED 4 INCHES WHEN TESTED IN ACCORDANCE WITH SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR DESIGN CONCEPT DRIFT SNOW LOAD = N/A APPROVAL. DESIGN CALCULATIONS AND DRAWINGS ARE TO BE PREPARED BY AND BEAR THE SEAL AND SIGNATURE OF A LICENSED PROFESSIONAL ENGINEER REGISTERED IN THE STATE IN WHICH THE PROJECT IS LOCATED SLIDING SNOW LOAD = N/A CONCRETE SHALL HAVE THE REQUIRED MINIMUM COMPRESSIVE STRENGTH AT LIVE: ROOF LIVE LOAD = 20 PSF (NOT REDUCIBLE) 28 DAYS WHEN TESTED ACCORDING TO ASTM C39 DESIGN STANDARDS SHALL CONFORM TO THE APPLICABLE PREVISIONS OF THE NDS 2015 AND THE LATEST "DESIGN SPECIFICATION FOR METAL PLATE PORTLAND CEMENT SHALL CONFORM TO ASTM C150 - SPECIFICATION FOR BASIC WIND SPEED EXPOSURE CATEGORY PORTLAND CEMENT CONNECTION TO WOOD TRUSSES" IMPORTANCE FACTOR (Iw) FINE AND COURSE AGGREGATES SHALL CONSIST OF CLEAN HARD STRONG AND DURABLE INERT MATERIAL FREE OF INJURIOUS AMOUNTS OF BOTTOM CHORD AND WEB BRACING REQUIREMENTS ARE TO BE DETERMINED BY TOPOGRAPHIC FACTOR (Kzt) THE TRUSS MANUFACTURER. BRACING TO BE INSTALLED BY THE GENERAL CONTRACTOR. CONSULT TRUSS MANUFACTURER FOR SIZE, LOCATION AND WIND DIRECTIONALITY FACTOR (Kz) = 1.0DELETERIOUS SUBSTANCES AND CONFORM TO ASTM C33 - SPECIFICATION INTERNAL PRESSURE COEFFICIENT (GCpi) = ± 0.18 NAILING REQUIREMENTS BEFORE BIDDING ENCLOSED BUILDING COMPONENT AND CLADDING DESIGN PRESSURE - SEE CHART BELOW MIXING WATER SHALL BE FREE OF ANY ACID, ALKALI, OIL OR ORGANIC AT ALL ENDS OF THE BUILDING AND AT INTERVALS ALONG THE LENGTH OF THE MATERIAL THAT MAY INTERFERE WITH THE SETTING OF THE CEMENT BUILDING, AS DETERMINED BY THE TRUSS MANUFACTURER, 'X' BRACING SHALL SEISMIC: USE GROUP BE INSTALLED ALONG LATERALLY BRACED WEBS SITE CLASS ALL EXTERIOR CONCRETE SHALL BE AIR-ENTRAINED. THE ENGINEER OF DESIGN CATEGORY RECORD SHALL APPROVE ALL ADMIXTURE ALL TRUSS SPANS ARE TO BE FIELD VERIFIED PRIOR TO FABRICATION OF IMPORTANCE FACTOR SPECTRA RESPONSE COEF. Sds REINFORCING BARS TO BE WELDED SHALL BE IDENTIFIED AS GRADE 60W SPECTRA RESPONSE COEF. Sd1 CONTRACTOR IS RESPONSIBLE FOR ERECTION PROCEDURE OF ROOF TRUSSES. ANALYSIS PROCEDURE - MINIMUM LATERAL FORCE WELDED WIRE FABRIC SHALL CONFORM TO THE MOST CURRENT ASTM ROOF TRUSSES TO BE ERECTED AND BRACED PER THE LATEST BCSI RESISTING SYSTEM - BEARING WALL SYSTEM 13 RESPONSE MODIFICATION COEF. OVERSTRENGTH FACTOR REINFORCING SHALL HAVE THE MINIMUM COVER REQUIREMENTS AS INDICATED IN ACI 318-14 WITH THE FOLLOWING MINIMUM VALUES: ROOF FRAMING PLAN IS A SCHEMATIC ONLY, TRUSS MANUFACTURER IS TO DEFLECTION AMPLIFICATION FACTOR = 4.0 PREPARE A TRUSS SETTING PLAN FOR CONTRACTOR'S USE IN FIELD CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH = 3" LOADS TO BE APPLIED IN ACCORDANCE WITH THE REQUIREMENTS OF THE EXPOSED TO EARTH OR WEATHER: #5 AND SMALLER = 1 1/2" #6 AND LARGER = 2" STRUCTURAL WOOD SHALL BE VISUALLY GRADED IN ACCORDANCE WITH ASTM ALL REINFORCING SHALL BE DETAILED, FABRICATED AND PLACED, IN D245. WOOD SHALL BE IDENTIFIED BY A GRADE MARK OR CERTIFICATE OF ACCORDANCE WITH ACI DETAILING MANUAL, LATEST EDITION (SP-66) ALL REINFORCING SHALL BE SUPPORTED IN FORMS, SPACED WITH ALL WOOD SHALL HAVE A MAXIMUM MOISTURE CONTENT OF 15% PRIOR TO ENCLOSED, PARTIALLY ENCLOSED BUILDINGS NECESSARY ACCESSORIES AND SHALL BE SECURELY WIRED TOGETHER IN ACCORDANCE WITH CRSI "REINFORCING BAR DETAILING" (LATEST EDITION) COMPONENT & CLADDING DESIGN SUCTION (psf) h <= 60 FT. BUILDING ALL WOOD PERMANENTLY EXPOSED TO THE WEATHER, IN CONTACT WITH ALL CONCRETE SHALL CURE A MINIMUM OF 7 DAYS. IF FORMS ARE REMOVED EXTERIOR, IN CONTACT WITH THE GROUND, SHALL HAVE A PRESERVATIVE BEFORE THE END OF THE CURING PERIOD, COAT SURFACES WITH LIQUID TREATMENT EQUAL TO 0.4 P.C.F. RETENTION OF PRESSURE INJECTED CCA CURING COMPOUND NO WOOD MEMBER SHALL BE CUT. NOTCHED, OR DRILLED WITHOUT SPECIFIC SAW CUTTING OF CONTROL JOINTS IS TO BE PERFORMED AS SOON AS WRITTEN APPROVAL OF THE ENGINEER OF RECORD CONDITIONS PERMIT, BUT NO MORE THAN 12 HOURS AFTER THE CONCRETE ALL JOISTS AND RAFTERS SHALL BE SUPPORTED BY DIRECT END BEARING ON BEAMS, PARTITIONS, OR JOIST HANGERS. ALL ROOF AND FLOOR TRUSSES EDGE ZONE STRIP WIDTH (FT) 5.0 PROVIDE STANDARD HOOKED DOWELS IN WALL FOOTINGS WITH EQUAL SIZE MUST BE LOCATED ABOVE WALL STUDS AND SPACING AS VERTICAL WALL STEEL, UNLESS NOTED OTHERWISE DO NOT EMBED WOOD MEMBERS IN CONCRETE UNLESS THEY ARE TREATED 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 RATES BUILDING INFORMATION PLYWOOD SHALL BE LAID WITH FACE GRAIN PERPENDICULAR TO SUPPORTS, ACCORDING TO SUPPLIERS CONSTRUCTION TYPE PLYWOOD SHALL BE CAPABLE OF SUPPORTING DESIGN LOADS AT REQUIRED USE NON-SHRINK, NON-METALLIC GROUT UNDER BASE PLATES OCCUPANCY LOAD NOT OCCUPIED SUPPORT SPACING AND BEAR APPROPRIATE GRADING STAMP FROM AMERICAN ACTUAL BUILDING SIZE (SQ. FT.) PLYWOOD ASSOCIATION DIMENSIONS OF THE FINISHED PRODUCT SHALL BE WITHIN THE LIMITS RECOMMENDED BY ACI 117 ALLOWABLE BUILDING SIZE (SQ. FT.) = 9000 W/O FRONTAGE INCREASE ACTUAL MAXIMUM BUILDING HEIGHT (FT) = 24.5 PLYWOOD SHEAR WALL SHALL BE FASTENED TO SUPPORTS WITH 10d NAILS SPACED AT 6" O.C. AT PANEL EDGES AND 12" O.C. AT INTERMEDIATE ALLOWABLE BUILDING HEIGHT (FT) THE CONCRETE CONTRACTOR SHALL COORDINATE ALL OTHER TRADES FOR ACTUAL NUMBER OF STORIES SUPPORTS, UNLESS OTHERWISE NOTED SIZE AND LOCATION OF ALL OPENINGS IN WALLS AND FLOORS. ALL ALLOWABLE NUMBER OF STORIES OPENINGS IN STRUCTURAL CONCRETE SHALL BE DETAILED OR APPROVED BY SPRINKLER SYSTEM FIRE ALARM PLYWOOD DIAPHRAGM SHALL BE FASTENED TO SUPPORTS WITH 10d NAILS HEATED SPACED AT 6" O.C. AT PANEL EDGES AND 12" O.C. AT INTERMEDIATE CALCIUM CHLORIDE OR ADMIXTURES CONTAINING CALCIUM CHLORIDE SHALL SUPPORTS, UNLESS OTHERWISE NOTED USE COMMON WIRE NAILS UNLESS NOTED OTHERWISE 2018 WISCONSIN COMMERCIAL BUILDING CODE (IBC 2015 AMENDED) NOTES: 1) NORMAL WEIGHT CONCRETE ALL BOLTS AND LAG SCREWS SHALL CONFORM TO ASTM A307. USE STEEL 2) CLEAR COVER > BAR DIAMETER BUILDING CODE REQUIREMENT FOR STRUCTURAL CONCRETE (ACI 318-14) WASHERS BETWEEN HEAD OF BOLT OR LAG SCREW AND WOOD. USE STEEL 3) MINIMUM SPACING S >= BAR DIA. WASHERS BETWEEN NUT AND WOOD W/STIRUPS STEEL DECK INSTITUTE (SDI), SPECIFICATIONS FOR ROOF AND FLOOR DECK, LATEST 4) MINIMUM SPACING S >= 2* BAR DIA. ALL FASTENERS USED FOR PRESERVATIVE TREATED WOOD SHALL BE W/O STIRRUPS GALVANIZED OR STAINLESS STEEL 5) $fc^{i} = 3000 \text{ PSI}$, Fy = 60,000 PSINATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION (NDS 15) ALL NAILING SHALL CONFORM TO TABLE 2304.9 OF IBC 2009, UNLESS NOTED 6) FOR TOP BARS MULTIPLY BY 1.3 NATIONAL DESIGN STANDARDS FOR METAL-PLATE-CONNECTED WOOD TRUSS 7) UNCOATED REINFORCING BARS CONSTRUCTION (TPI 1-14) LAP ALL DOUBLE TOP PLATES A MINIMUM OF FOUR FEET AND FASTEN TOGETHER WITH MINIMUM TWELVE 10d NAILS ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES (ICC/ANSI A117.1-09) STEEL ROOF AND WALL PANEL ROOF DECK TYPE: 29 GA. MAX-RIB USE $#12 \times 1 1/2$ " FASTENER AT SUPPORTS FASTENER TYPE: FASTENERS ARE TO BE 9" O/C AT ALL SUPPORTS FASTENER SPACING: AND (2) FASTENERS AT 9" O/C AT PANEL ENDS MIRROR ABOUT RIDGE FOR WORSE CASE FIELD CUT ALL METAL ROOF PANEL OPENINGS SHOWN ON THE CONSTRUCTION DOCUMENTS AND REINFORCE ALL OPENINGS GREATER THAN 9" DIAMETER WITH 2X6 SPF #2 FRAMING DO NOT ATTACH OR HANG EQUIPMENT, MATERIALS, OR ANY LOADS TO METAL ROOF PANEL 30.3 PSF WALL DECK TYPE: 29 GA. MAX-RIB FASTENER TYPE: USE #12 X 1 1/2" FASTENER AT SUPPORTS UNBALANCED SNOW LOAD FASTENER SPACING: FASTENERS ARE TO BE 9" O/C AT ALL SUPPORTS AND (2) FASTENERS AT 9" O/C AT PANEL ENDS FIELD CUT ALL METAL WALL PANEL OPENINGS SHOWN ON THE

ENGINEER

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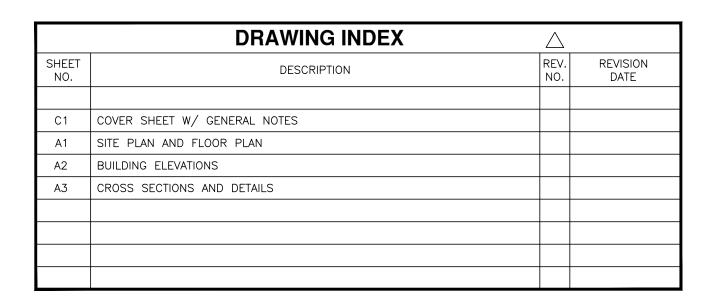
Town of Oakdale

228 Ballpark Drive Oakdale, WI 54660

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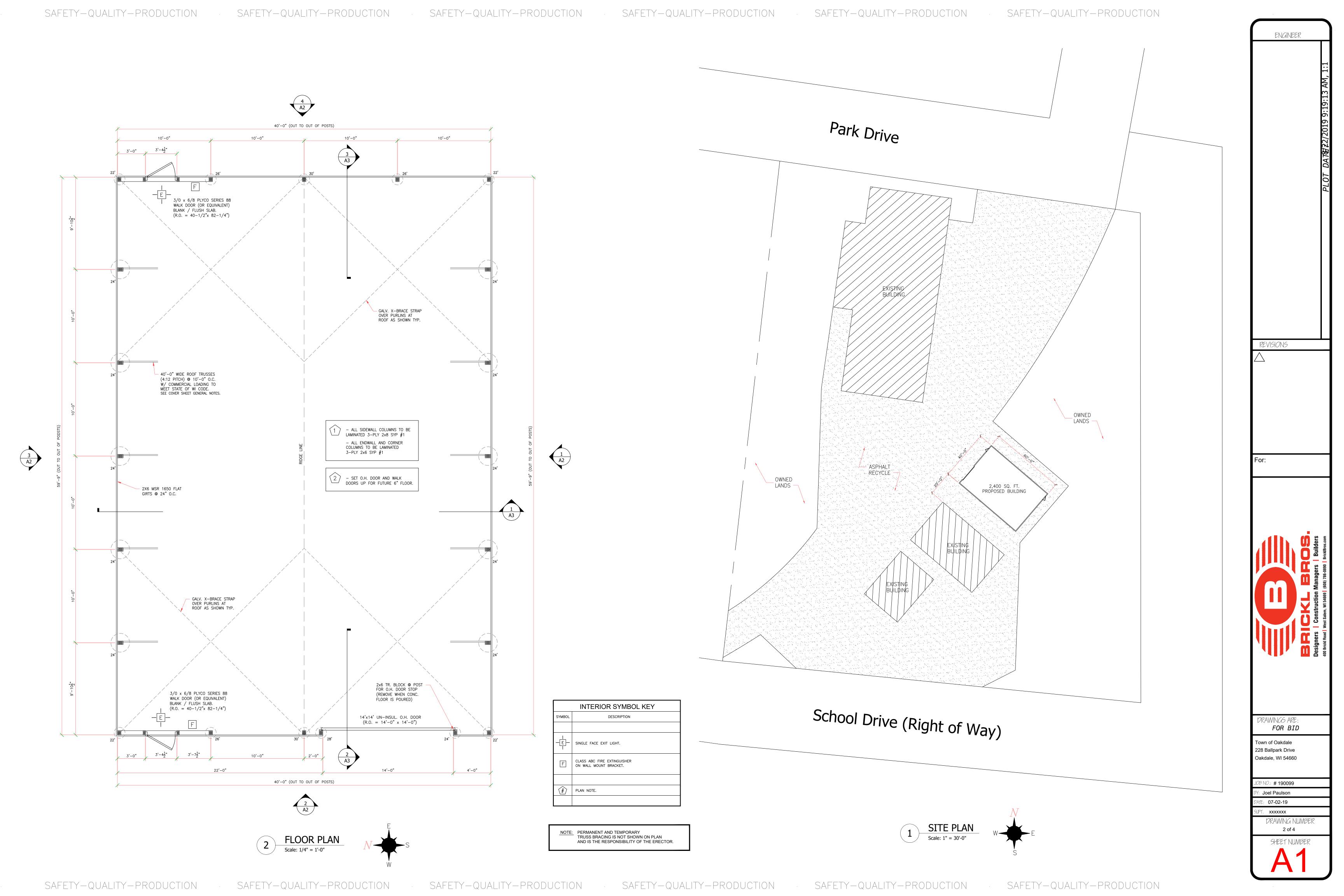
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9" DIAMETER WITH 2X6 SPF #2 FRAMING

CONSTRUCTION DOCUMENTS AND REINFORCE ALL OPENINGS GREATER THAN

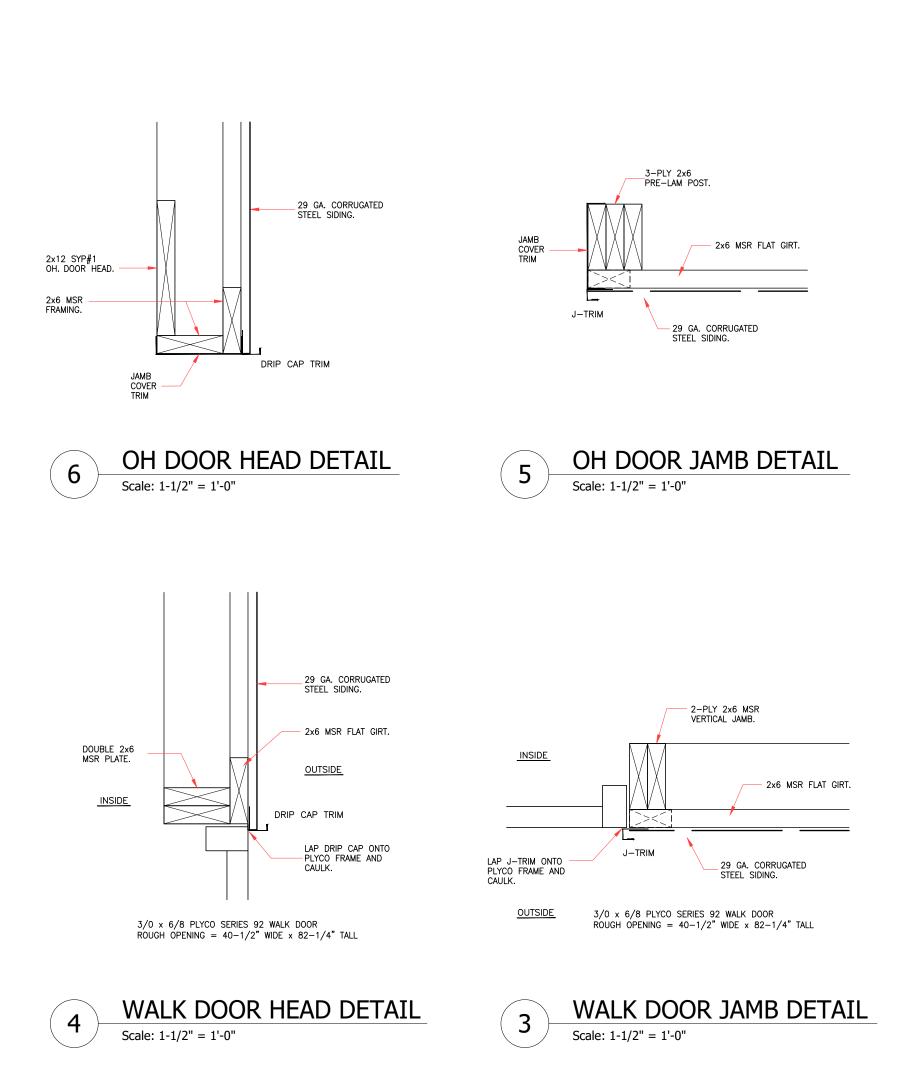
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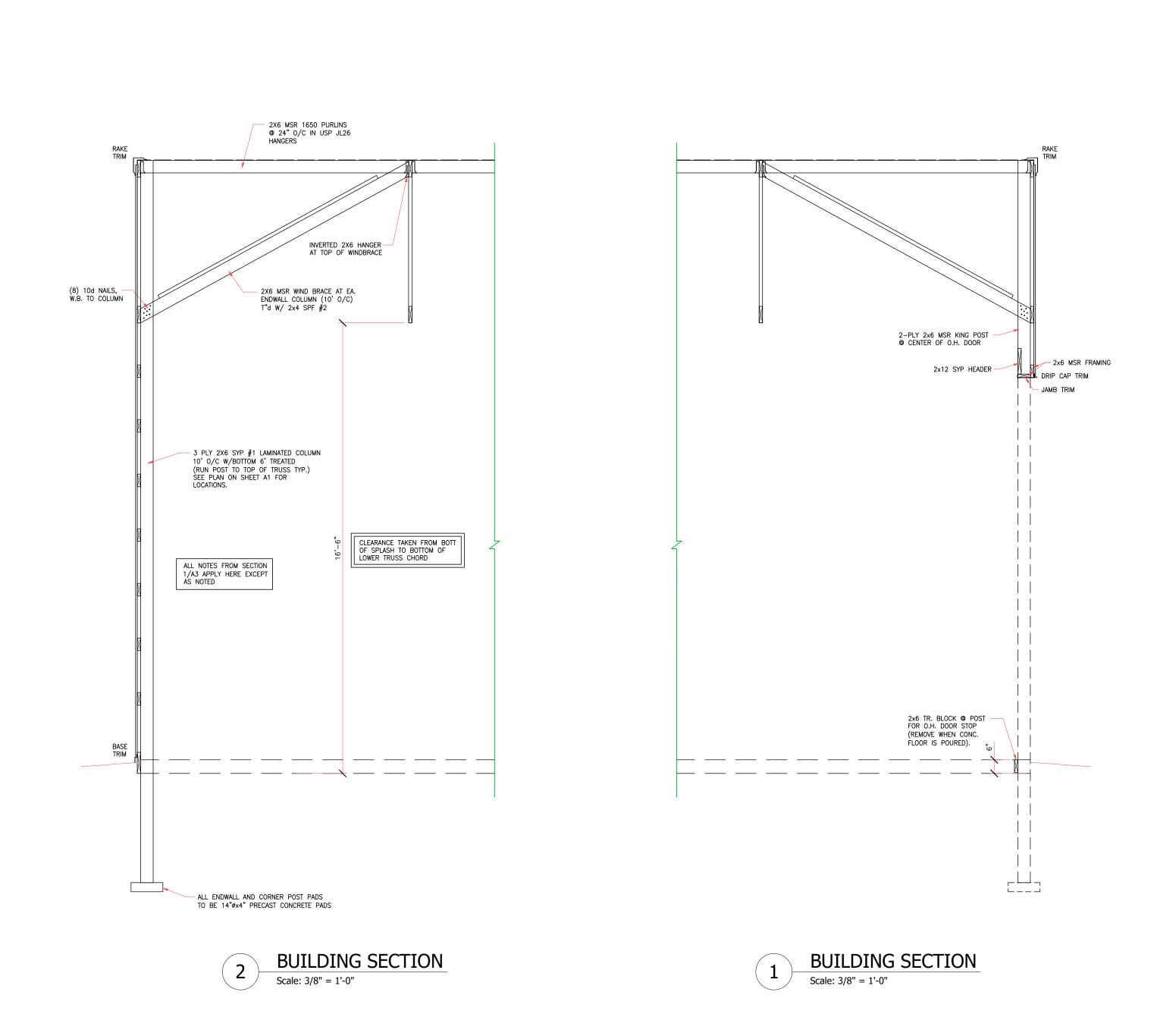


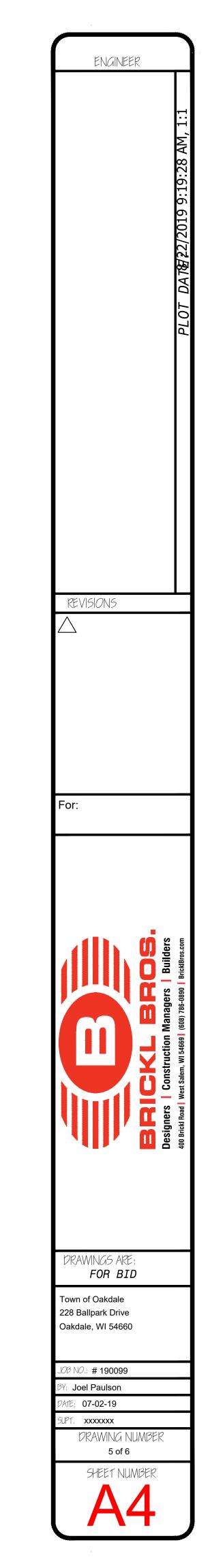
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