GENERAL N

- IF ANY GENERAL NOTE CONFLICTS WITH ANY DETAIL OR NOTE ON THE PLANS OR IN THE SPECIFICATIONS, THE STRICTEST PROVISION SHALL GOVERN.
- THE STRUCTURAL DRAWINGS ARE FOR THE PLACEMENT AND SIZE OF STRUCTURATION COMPONENTS ONLY. O.S.H.A., LOCAL GOVERNMENT CODES AND SAFETY CODE REQUIREMENTS SHALL BE ADHERED TO BY THE CONTRACTOR.

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- THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER IT FULLY COMPLETED. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE, AND TO ENSURE THE SAFETY OF THE STRUCTURE AND ITS COMPONENT PARTS DURING ERECTION. THIS INCLUDES PROVIDING TEMPORARY BRACING, SHORING, GUYS OR TIE- DOWNS. THESE TEMPORARY SUPPORTS WILL REMAIN IN PLACE UNTIL ALL STRUCTURAL COMPONENTS ARE IN PLACE AND COMPLETED.
- USE OF ENGINEERING DRAWINGS AS ERECTION DRAWINGS BY THE CONTRACTOR IS STRICTLY PROHIBITED. DIMENSIONS SHOWN ON THE STRUCTURAL DRAWINGS ARE FOR REFERENCE ONLY AND SHOULD NOT BE USED FOR BUILDING LAYOUT AND LOCATION. SEE ARCHITECTURAL DRAWINGS AND SITE PLAN FOR THESE PURPOSES.
- THE CONTRACTOR SHALL CHECK SHOP DRAWINGS PRIOR TO SUBMITTAL AND IS SOLELY RESPONSIBLE FOR ERRORS & OMISSION IN THE PREPARATION OF SHOP DRAWINGS TO CONFORM TO THE DESIGN DRAWINGS. SUBMIT NO MORE THAN ONE REPORDUCIBLE AND TWO PRINTS OF SHOP DRAWINGS FOR ENGINEER REVIEW. TWO COPIES WILL BE RETURNED TO THE ARCHITECT.
- IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY ALL RELEVANT DIMENSIONS AND ELEVATIONS FOR EQUIPMENT INSTALLATIONS AGAINST PURCHASED MANUFACTURER'S CERTIFIED EQUIPMENT DRAWINGS. DIMENSIONS THAT DEPEND UPON SPECIFIC EQUIPMENT SUCH AS ELEVATOR OPENINGS, MECHANICAL EQUIPMENT SUPPORTS, ETC. SHALL BE COORDINATED BY THE CONTRACTOR PRIOR TO SUBMITTAL TO THE ARCHITECT/ENGINEER. SUCH DIMENSIONS SHALL BE PROVIDED ON THE SHOP DRAWINGS BY THE CONTRACTOR PRIOR TO SUBMITTAL TO THE ARCHITECT/ENGINEER.

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PRE-MANUFACTURED ITEMS SUCH AS CANOPIES, AWNINGS, SUNSHADES, ETC.
SHALL BE DESIGNED BY SUPPLIER. SUPPLIER SHAL SUBMIT SIGNED AND SEALED
SHOP DRAWINGS AND CALCULATIONS BY A REGISTERED ENGINEER IN THE STATE OF
MICHIGAN FOR RECORD TO ARCHITECT. SHOP DRAWINGS SHALL INDICATE ALL DESIGN
LOADS AND INCLUDE ALL CONNECTIONS AND MATERIAL NECESSARY FOR INSTALLATION
NECESSARY FOR INSTALLATION OF PRE-MANUFACTURED ITEMS.

DATIONS

- FOOTINGS SHALL BEAR ON FIRM, UNDISTURBED SOIL OR ENGINEERED FILL WITH A SAFE BEARING CAPACITY OF 3000 P.S.F. IF SOIL OF THIS CAPACITY IS NOT FOUND AT THE ELEVATIONS INDICATED, FOOTINGS SHALL BE ENLARGED OR LOWERED AT THE DIRECTION OF THE ARCHITECT. VERIFY FOUNDATION SOIL BEARING PRESSURE IN FIELD BY SOILS ENGINEER.
- PREPARE SITE AND INSTALL FILL IN ACCORDANCE WITH THE GEOTECHNICAL REPORT ENTITLED "GEOTECHNICAL ENGINEERING INVESTIGATION PROPOSED BELLE TIRE STORE" WITH THE PROJECT NO. N331481503, AND DATED JANUARY 29, 2016.

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- PROVIDE NECESSARY SHEETING SHORING BRACING, ETC. EXCAVATIONS TO PROTECT SIDES OF EXCAVATIONS. AND OTHER AS REQUIRED
- COMPLY FULLY WITH REQUIREMENTS OF AGENCIES FOR SAFETY PROVISIONS.

- MINIMUM CONCRETE STRENGTH TO BE 3000 P.S.I. @ 28 DAYS, U.O.N.; SLABS SHALL BE 3500 P.S.I. MIN. U.O.N. EXPOSED CONCRETE SHALL WITH 6% + 1% ENTRAINED AIR U.O.N.
- FLYASH OR GROUND GRANULATED BLAST FURNACE SLAG MAY BE SUBSTITUTED 25% MAXIMUM OF MIX DESIGN CEMENT CONTENT IN NON-EXPOSED CONCRETE NDO NOT USE IN EXPOSED MIX DESIGNS. MIXES.
- ALL CONCRETE WORK AND PLACEMENT SHALL RECOMMENDATIONS OF A.C.I. CONFORM TO THE LATEST
- ALL REINFORCING BARS, DOWELS AND TIES SHALL CONFORM TO A.S.T.M. GRADE 60. REINFORCING STEEL SHALL BE CONTINUOUS AND SHALL HAVE MINIMUM 36 BAR DIAMETER LAP AND BE FABRICATED AND PLACED IN ACCORDANCE WITH A.C.I. 315 LATEST EDITION.

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- REINFORCED CONCRETE WALL FOOTINGS SHALL HAVE CORNER BARS AT ALL INTERSECTIONS OF THE SAME SIZE AND SPACING AS THE MAIN HORIZONTAL REINFORCING.
- ALL WALLS SHALL HAVE #4 @ 12" O.C. BOTH WAYS, INSIDE FACE, AND #3 @ 12" O.C. BOTH WAYS, OUTSIDE FACE, EXCEPT AS NOTED, AND ALL HORIZONTAL WALL STEEL SHALL BEND 2'0" AROUND CORNERS. BEND VERTICAL WALL STEEL 2'0" INTO FLOOR SLAB. ALL SLABS ON GROUND SHALL BE 4" THICK AND HAVE 6" X 6" W1.4 X W1.4 WELDED WIRE FABRIC IN THE TOP 1/3 OF THE SLAB, UNLESS OTHERWISE NOTED.
- FIELD AND SHOP TESTING OF CONCRETE WORK SHALL INCLUDE INSPECTION OF REINFORCING STEEL PLACEMENT, REBARS, NUMBER, LOCATION, AND LAP SPLICE
- PROVIDE DOWELS INTO FOUNDATION TO MATCH SIZE AND SPACING PROVIDE THE FOLLOWING COVER FOR OF VERTICAL NOTED.
- <u>10.</u> UNLESS OTHERWISE SHOWN, REINFORCING STEEL:

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UNFORMED SURFACES IN CONTACT WITH EARTH
UNFORMED SURFACES OVER MOISTURE BARRIERS
FORMED SURFACES EXPOSED TO EARTH OR WEATHEF
OR WATER PROOFING/DAMP PROOFING
#6 OR LARGER
#5 OR SMALLER
FORMED SURFACES NOT EXPOSED TO EARTH
OR WEATHER
SLABS AND WALLS
COLUMNS
BEAMS AND GIRDERS NS AND GIRDERS -3/4 IN. -1 1/2 IN. -1 1/2 IN. -2 -1 1/2 Z Z

- THE MASONRY PORTIONS OF THIS STRUCTURE ARE DESIGNED ACCORDING TO THE LATEST ALLOWABLE STRESS DESIGN PROVISIONS OF THE MASONRY STANDARDS JOINT COMMITTEE (MSJC) BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (ACI 530/ASCE 602) INCLUDING SECTIONS 2106 AND 2107 OF CHAPTER 21 IN THE MICHIGAN BUILDING CODE. MASONRY COMPONENTS HAVE BEEN DESIGNED ACCORDING TO THE PROVISIONS FOR SEISMIC DESIGN CATEGORY B.
- ALL STRUCTURAL MASONRY IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST MASONRY STANDARDS JOINT COMMITTEE (MSJC) BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (TMS 402/ACI 530/ASCE 5) AND SPECIFICATIONS FOR MASONRY STRUCTURES (TMS 602/ACI 530.1/ASCE 6) MASONRY SUBMITTALS ARE REQUIRED BY ACI 530.1/ASCE 6/TMS 602. SECTION MASONRY TESTING AND INSPECTIONS ARE REQUIRED BY ACI 530.1/ASCE 6/TMS SECTION 1.6, TABLE 5.

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LL STRUCTURAL MASONRY HAS BEEN ENGINEERED IN ACCORDANCE WITH HAPTER 2 ALLOWABLE STRENGTH DESIGN. COMPRESSION STRENGTH SHAL ETERMINED ACCORDING TO THE UNIT STRENGTH METHOD FOR CONCRETE ASONRY MSJC SECTION 1.4. B.2.b.

- ALL BLOCK SHALL CONFORM TO ASTM C90, TYPE I, WITH A AREA COMPRESSIVE STRENGTH OF 2800 PSI. MINIMUM UNIT NET
- MASONRY
- MORTAR USE MOR SHALL BE TYPE "S" (1800 PSI) CONFORMING TO ASTM (TAR CEMENT WHERE EXTERIOR WALLS ARE UNREINFORCED.
- PROVIDE HORIZONTAL WIRE TYPE REINFORCING WITH 9 GAUGE SIDE MEMBERS IN EVERY SECOND COURSE (16" O.C.), IN ALL MASONRY WITH VERTICAL REINFORCING SHALL ONLY HAVE "LADDER" TYPE RE SIDE AND CROSS VRY WALLS. WAI
- ALL REI GRADE 6 PLACED FOLLOWI

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- SONRY BEARING STEEL BEAMS AND LINTELS TO BEAR 8" MINIMUM ON 3 SOLID MASONRY, WITH 2-3/4" DIAMETER BOLTS EACH END, UNLESS ISE NOTED.

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- ALL MASONRY BELOW GRADE SHALL BE GROUTED SOLID.
- 12 MASONRY AGGREGA SPECIFI GROUT SHALL CONFORM TO ASTM C 476, WITH PEA GRAVEL TE AND A MINIMUM STRENGTH OF 2000 PSI, BUT NOT LESS ED f'm.
- $\overline{\omega}$ UNLESS FOLLOWI OTHERWISE NOTED, NG LINTELS: AT ALL MASONRY WALLS PROVIDE

WALL

(2) L4x; (2) L5x; W8x18 + W8x28 + x 5/16 x 5/16 PLATE F 16 LLV FOR OPENINGS UP TO 4 16 LLV FOR OPENINGS UP TO 5 E FOR OPENINGS UP TO 8'-0" E FOR OPENINGS UP TO 12'-4" 4'-0" 5'-4"

- 12" WAL
- LINTEL
- 16. PROVIDE REINFOR CEMENT / 3 INTO FOUNDATION TO MATCH SIZE AND SPACING OF VERTICAL AT ALL COLUMNS AND WALLS, UNLESS OTHERWISE NOTED.
- UNLESS SMALLER
- ALL WEL AWS COD WELDERS DED CONNECTIONS SHALL BE IN ACCORDANCE WITH THE LATEST E70XX ELECTRODES, WITH WELDING PERFORMED BY QUALIFIED
- BOLTED ARE TO "STRUCT CONNECT
- DESIGN UNIFORN NOTED. CONNECTIONS FOR MINIMUM ONE-HALF THE TOTAL ALLOWABLE I LOAD PER A.I.S.C. BEAM LOAD TABLES, UNLESS OTHERWISE (MIN. 2 BOLTS EACH CONNECTION).

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- TYPE OF NOTED O A2.2 IS 8
- 10. TEMPORARY ERECTION SEATS SHALL BE PROVIDED AS RECOMMENDED ON PAGE 3-59 OF THE A.I.S.C. PUBLICATION "ENGINEERING FOR STEEL CONSTRUCTION"
- STEEL JOISTS AND JOIST GIRDERS ARE TO BE FABRICATED BY A MEMBER OF STEEL JOIST INSTITUTE AND BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST SPECIFICATIONS OF THE S.J.I.
- 12. ALL PROVISIONS OF THE RECOMMENDED CODE OF STANDARD PRACTICE STEEL JOISTS AS ADOPTED BY THE STEEL JOIST INSTITUTE SHALL
- 13.

- COMPRESSIVE STRENGTH f'm = 2000 PSI MINIMUM

- NFORCING BARS, DOWELS AND TIES SHALL CONFORM TO A.S.T.M. A6:0. REINFORCING STEEL SHALL BE CONTINUOUS, FABRICATED AND IN ACCORDANCE WITH A.C.I. 315 LATEST EDITION AND HAVE THE NG MINIMUM LAP LENGTHS: A615

AR SIZE	8" CMU	12" CMU
#3	18"	18"
#4	24 "	24"
#5	30"	30"
#6	38	36"
#7		42"
‡0		T 0 =

- MINIMUN MINIMUN OTHERWISE NOTED WHERE STEEL JOISTS BEAR ON MASONRY, PROVIDE OF ONE COURSE OF SOLID BLOCK BELOW K-SERIES JOISTS AND A OF TWO COURSES SOLID BELOW LH SERIES JOISTS.

- (3) L4x (3) L5x W8x18 + W8x28 + 3- 1/2 x 5/16 LLV FOR OPENINGS UP TO 4'-0" 3-1/2 x 5/16 LLV FOR OPENINGS UP TO 5'-4" 3/8" PLATE FOR OPENINGS UP TO 8'-0" 3/8" PLATE FOR OPENINGS UP TO 12'-4"
- ALL DOU JBLE ANGLE LINTELS SHALL BE WELDED BACK TO BACK 2 INCH STITCH WELD EVERY 8 INCHES.
- UNLESS FOR EAC OTHERWISE NOTED, PROVIDE L5 X 3-1/2 X 5/16 L.L.V. 2H 4" OF MASONRY FOR SPANS UP TO 5'-0" MAX.
- STRUCTURAL
- DESIGN, FABRICATION AND ERECTION TO BE IN ACCORDANCE WITH THE A.I.S.C. MANUAL AND SPECIFICATION FOR STRUCTURAL STEEL FOR NGS. ALL WIDE FLANGE BEAMS AND COLUMNS SHALL CONFORM TO THE ASTM. SERIAL DESIGNATION A992, GR50; ALL MISCELLANEOUS STEEL, BARS, ANGLES, ETC., SHALL CONFORM TO ASTM A36; STEEL TUBING 500, GRADE B; STEEL PIPE ASTM. A-53, GRADE B. TO
- OTHERWISE NOTED OR SHOWN, ALL BEAM CONNECTIONS TO HSS 5 X 5 OR 3 COLUMN,5"Ø OR SMALLER COLUMN, OR ANY TUBE COLUMN REGARDLESS OF ITH A WALL THICKNESS LESS THAN 5/16" SHALL BE MADE WITH THRU WELDED TO BOTH WALLS OF COLUMN.
- CONNECTIONS SHALL BE MADE WITH A-325 OR A-490 BOLTS. ALL BE INSTALLED IN ACCORDANCE WITH THE LATEST SPECIFICATIONS URAL JOINTS USING A.S.T.M. A-325 OR A-490 BOLTS." TYPICAL TONS ARE "BEARING TYPE" UNLESS NOTED OTHERWISE.
- PLATE SHEAR CONNECTIONS ARE ACCEPTABLE ONLY FOR BEAM TO GIRDER WED CONNECTIONS LESS THAN 30 KPS. SHEAR PLATE OR SINGLE SHEAR SHALL BE WELDED TO TOP FLANGE OF SUPPORTING GIRDERS.
- THE STRUCTURAL STEEL CONTRACTOR SHALL INCLUDE (2) TONS OF ADDITIONAL STEEL, INCLUDING FABRICATION AND ERECTION, TO BE USED DISCRETION OF THE STRUCTURAL ENGINEER.
- THE DESIGN, CONFIGURATION & ERECTION SAFETY OF CONNECTIONS SHALL BE THE RESPONSIBILITY OF THE FABRICATOR. REVIEW AND ACCEPTANCE OF THE SHOP ENGINEER SHALL CONSTITUTE APPROVAL OF THE LOAD ONLY.

- STEEL JOIST BEARING ON STEEL BEAMS OR PLATES, STEEL WITH 2" LONG BEAD EACH SIDE OF BEARING.

- JOISTS AS REQUIRED TO BEARING

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- REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL CLIPS, ETC., ATTACHED TO STRUCTURAL STEEL.

16.

- UNLESS OTHERWISE NOTED, ALL FLOOR AND ROOF OPENINGS SHALL BE FRAMED WITH L 5 \times 3-1/2 \times 5/16 L.L.V. VERIFY EXACT SIZE AND LOCATION OF ALL FLOOR AND ROOF OPENINGS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS AND WITH CONTRACTOR INVOLVED.

8.

- LIGHT GAGE FRAMING SUPPLIER SHALL SUBMIT DRAWINGS AND CALCULATIONS SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN MICHIGAN INDICATING ALL DESIGN LOADS AND MATERIALS INCLUDING VERIFYING ANY MEMBER SIZES SHOWN. DESIGN BY SUPPLIERS ENGINEER SHALL INCLUDE ALL CONNECTIONS AND MISCELLANEOUS MATERIALS NECESSARY FOR A COMPLETE STRUCTURE. THE FINAL MEMBER SIZES AND GAGES SHALL BE CALCULATED BY THE LIGHT GAGE ENGINEER.
- MEMBER SIZES INDICATED ON DRAWINGS ARE MINIMUM DEPTH AND GAGE REQUIRED TO MEET THE DESIGN INTENT AND ARE BASED ON THE PROPERTIES AN MATERIALS LISTED IN THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA) PRODUCT CATALOG. ALTERNATE MANUFACTURERS ARE ACCEPTABLE IF THE PHYSICAL PROPERTIES ARE EQUAL OR BETTER THAN THOSE LISTED ACCEPTABLE TO THE PROJECT ARCHITECT AND ENGINEER, AND MEET OR EXCEED PERFORMANCE CRITERIA.
- INSPECTION

- INSPECTION OF FABRICATOR'S (SEC. 1704.2.5) *
- FABRICATION AND IMPLEMENTATION PROCEDURES 1704.2.5.1

SPECIAL

- THIS STEEL FRAME IS NON SELF-SUPPORTING PER A.I.S.C. CODE OF PRACTICE, SECTIONS 7.9.3. AND 7.9.5. ERECTION, BRACING, SHO SHALL CONFORM TO THESE SECTIONS. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE.
- THE DESIGN OF THE STEEL FRAMED STAIRS SHALL BE THE RESPONSIBILITY OF THE STEEL FABRICATOR. PROVIDE COMPLETE ENGINEERED STAIR ASSEMBLIES, CONFORMING TO THE ARCHITECTURAL INTENT, UNDER THE SEAL OF AN ENGINEER REGISTERED IN THE STATE OF MICHIGAN INCLUDING METAL FRAMING, HANGERS, MASONRY BEARING PLATES, COLUMNS, RAILING ASSEMBLIES, AND OTHER COMPONENTS NECESSARY TO SUPPORT THE STAIRS AND LANDINGS INCLUDING ANCHORAGE TO THE SUPPORTING STRUCTURE.

19.

- THE CONTRACTOR SHALL FURNISH ALL ACCESSORIES INCLUDING CLOSURES, CLOSURES, COLUMN CLOSURES, SCREED ANGLES AND GIRDER FILLERS AS REQUIRED.
- FLOOR DECK SHALL HAVE GALVANIZED COATING CONFORMING TO ASTM A653-COATING DESIGNATION G-60 OR AS NOTED. ROOF DECK SHALL HAVE GALVANIZED COATING CONFORMING TO ASTM A653-COATING DESIGNATION G-90 OR AS NOTED.
- NO LOADS SHALL BE PERMITTED TO BE HUNG FROM ANY ROOF DECK. HANGERS FOR CEILINGS, DUCTWORK, ELECTRICAL CONDUIT, PIPING, BE HUNG DIRECTLY FROM STRUCTURAL STEEL WORK OR SUPPLEMENTARY MEMBERS. ALL ETC., SHAL

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20.

- MASONRY AND BRICK LINTELS SHALL BE GALVANIZED G90 PER ASTM A123
- PROVIDE L4X4X1/4 SEATS AT COLUMN WEBS WHERE REQUIRED FOR SUPPORT OF ROOF AND FLOOR DECKS. PROVIDE ANGLE OUTRIGGER FROM EXTERIOR COLUMNS FOR SLAB AND ROOF EDGE PLATE SUPPORT.
- ALL BOLTED MOMENT CONNECTIONS REQUIRE SLIP CRITICAL

- LIGHT GAGE MEMBERS SHALL BE DESIGNED, MANUFACTURED AND INSTALLED ACCORDANCE WITH THE LATEST REQUIREMENTS OF THE AMERICAN IRON AND STEEL INSTITUTE (AISI) INCLUDING ANY REQUIRED CLIPS, STIFFENERS, BRACING.
- ω
- SPECIAL LIGHT GAGE DOCUMENTS SUBMITTED BY THE LIGHT GAGE FRAMING SUPPLIER IS A "DEFERRED SUBMITTAL" PER SECTION 107.3.4.1 OF THE MBC 2012
- WORK CONSTRUCTED SHALL BE INSPECTED BY AN INDEPENDENT TESTING AGENCY TO ENSURE COMPLIANCE WITH THE REQUIREMENTS SHOWN ON THE DRAWINGS. INSPECTIONS REQUIRED BY CHAPTER 17 OF THE MICHIGAN BUILDING CODE; LOCAL BUILDING DEPARTMENTS AND THE CONTRACT DOCUMENTS SHALL BE PERFORMED BY AN INDEPENDENT TESTING AGENCY. SITE VISITS BY THE DESIGN ENGINEER DO NOT CONSTITUTE OR REPLACE INSPECTION
- THE FOLLOWING ITEMS SHALL BE INSPECTED IN ACCORDANCE WITH MBC 2012 SEC. 1704 & 1705 BY A CERTIFIED SPECIAL INSPECTOR UNLESS NOTED OTHERWISE IN REMARKS COLUMN. ALL INSPECTION SHALL BE CONTINUOUS UNLESS OTHERWISE NOTED. ALL PRODUCTS WITH ICC APPROVALS SHALL BE INSTALLED PER THE APPROVAL AND PER MANUFACTURER'S RECOMMENDATIONS. FOR MATERIAL TESTING REQUIREMENTS, SEE SPECIFICATIONS AND/OR GENERAL NOTES. TESTING AGENCY SHALL SEND COPIES OF ALL STRUCTURAL TESTING AND INSPECTION REPORTS DIRECTLY TO THE ARCHITECT.

STEEL (CONT.)

- METAL DECK SHALL CONFORM TO ALL REQUIREMENTS OF "BASIC DESIGN SPECIFICATION" AS ADOPTED BY THE STEEL DECK INSTITUTE (S.D.I.). METAL ROOF DECK SHALL BE WIDE RIB WITH NESTING SIDE SEAMS OF DEPTH AND GAGE INDICATED ON THE DRAWINGS. DECK SHALL BE WELDED TO ALL SUPPORTING STEEL WITH PUDDLE WELDS (5/8" DIAMETER MINIMUM), AT 12" CENTER MAXIMUM SPACING AND 6" O/C (ALL FLUTES) AT END LAP SUPPORT FAND BUILDING PERIMETER ATTACHMENTS. SIDE LAP CONNECTIONS SHALL BE A MIN. OF 2-#10 TEK SCREWS BETWEEN EACH JOIST REFER TO SPECIFICATIONS FOR ADDITIONAL ERECTION PROCEDURES.

FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY)

• JOINT PREPARATION

• DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE,

• CLEANLINESS (CONDITION OF STEEL SURFACES)

• TACKING (TACK WELD QUALITY AND LOCATION)

• BACKING TYPE AND FIT (IF APPLICABLE)

GURATION AND FINISH OF ACCESS

WELDER IDENTIFICATION SYSTEM 1

MATERIAL IDENTIFICATION (TYPE/GRADE)

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CERTIFICATION FOR WELDING

- F STANDARD HORING, ETC.
- "Z" FIT-UP OF FILLET WELDS

 • DIMENSIONS (ALIGNMENT, GAPS AT ROOF)

 • CLEANLINESS (CONDITION OF STEEL SUBFACES)

 • TACKING (TACK WELD QUALITY AND LOCATION) THE FABRICATOR OR ERECTOR, AS APPLICABLE, SHALL MAINTAIN A SYSTEM BY WHICH A WELDER A JOINT OR MEMBER CAN BE IDENTIFIED. STAMPS, IF USED, SHALL BE THE LOW-STRESS TYPE
- WPS FOLLOWED

 SETTINGS ON WELDING EQUIPMENT

 TRAVEL SPEED

 SELECTED WELDING MATERIALS

 SHIELDING GAS TYPE/FLOW RATE

 PREHEAT APPLIED

 INTERPASS TEMPERATURE MAINTAIN

 PROPER POSITION (F, V, H, OH) ENVIRONMENTAL CONDITIONSWIND SPEED WITHIN LIMITSPRECIPITATION AND TEMPERATURE TABLE N5.4-2
 INSPECTION TASKS DURING WELDING
 INSPECTION TASKS DURING TO WELDING 0 20 0 0 0 QA 0

TABLE N5.4-3

INTERPASS AND FINAL CLEANING
 EACH PASS WITHIN PROFILE LIMITATIONS
 EACH PASS MEETS QUALITY REQUIREMENTS

0

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INSPECTION TASKS AFTER WELDING			
INSPECTION TASKS AFTER WELDING	QC	QA	NOT APPLICABLE
WELDS CLEANED	0	0	-
SIZE, LENGTH AND LOCATION OF WELDS	Р	P	-
WELDS MEET VISUAL ACCEPTANCE CRITERIA CRACK PROHIBITION WELD/BASE-METAL FUSION CRATER CROSS SECTION WELD PROFILES WELD SIZE UNDERCUT POROSITY	ס	פי	
ARC STRIKES	Ρ	Р	-
K-AREA ¹	Р	Ρ	-
BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)	Р	Ρ	-
REPAIR ACTIVITIES	Р	Р	-
DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	Р	Р	-
¹ WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES OF STIFFENERS HAS BEEN PERFORMED IN THE K-AREA, VISUALLY INSPECT THE WEB K-AREA FOR CRACKS WITHIN 3 IN. (75MM) OF THE WELD.	RFORMED IN T	HE K-AREA,	

TABLE N5.6-1

INSPECTION TASKS PRIOR TO BOLTING INSPECTION TASKS PRIOR TO BOLTING INSPECTION TASKS PRIOR TO BOLTING MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE) PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION		0 0 0 0 8
S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS KED IN ACCORDANCE WITH ASTM REQUIREMENTS RS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGE TO BE EXCLUDED FROM SHEAR PLANE)]	
RROCEDURE SELECTED FOR JOINT DETAIL		0
CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	_	0
PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED	ED (ED P
PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTNER COMPONENTS		0

			TABLE N5.6-3 INSPECTION TASKS AFTER BOLTING
-	0	0	FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES
-	0	0	FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING
	0	0	JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION
•	0	0	FASTENERS ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED
NOT APPLICABLE	Q.A	ac	INSPECTION TASKS DURING BOLTING
			INSPECTION TASKS DURING BOLTING

OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED DELAYED PENDING THESE INSPECTIONS. TURNED BY THE WRE NOT BE

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Ъ PERFORM THESE TASKS FOR EACH WELDED JOINT OR MEMBER.

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TASKS PRIOR TO WELDING

Seal

INSPECTION

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QA	
NOT APPLITCABLE	
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CHRISTOPHER LARIGHT ARCHITECTS

628 E. Parent Avenue Suite 106 Royal Oak, MI 48067 248.258.6485 (O) 248.330.9395 (C) cenright@enrightarch

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Shymanski &

Associates, L.L.C. 126 Five Mile Rd onia, Michigan 48154 734.855.4810 fx. 734.855.4809

Belle Tire Northville Twp. MI Meijer Outlot #54 39931 8 Mile Road

Northville Township, MI 48167

General Notes

Final Site Plan: May 25, 2016 Owner Review: February 12, 2016 Site Plan / Special Land Use: February 26, 2016

REVISED Final Site Plan: July 22, 2016

BIDDING / PERMIT: February 16, 2017

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