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010000 - GENERAL:	I. ABBREVIATIONS:				
A. BUILDING CODES USED FOR DESIGN AND CONSTRUCTION	A/E = ARCHITECT/ENGINEER		5. AFTER ERECTION, CLEAN FIELD WELDS, BOLTED CONNECTIONS AND ABRADED AREAS, AND TOUCH-UP PRIME PAINTED AND GALVANIZED LOCATIONS WITH MATCHING PRIMER AND OR ZINC ENRICHED GALVANIZED PAINT.	B. DRILLING INTO THE EXISTING CONCRETE STRUCTURE SHALL BE PERFORMED IN A MANNER, WHICH AVOIDS DAMAGE TO ALL EXISTING REINFORCEMENT UNLESS OTHERWISE ACCEPTED BY THE ARCHITECT/STRUCTURAL ENGINEER. SUBMIT A CONSOLIDATED "PENETRATION" SHOP DRAWING INDICATING ALL NEW REQUIRED PENETRATIONS PLUS CURRENT PENETRATIONS FOR ALL DISCIPLINES ON ONE DRAWING FOR EACH LEVEL AND EACH ELEVATION. INDICATE THE EXACT SIZE AND LOCATION OF ALL PENETRATIONS RELATIVE TO THE CLOSEST COLUMN CENTER LINE. USE A BAR DETECTION METHOD TO LOCATE BARS PRIOR TO DRILLING.	
1. STRUCTURAL DESIGN OF THIS BUILDING IS IN ACCORDANCE WITH THE APPLICABLE CODES AND ORDINANCES AND THE 2015 INTERNATIONAL BUILDING CODE.	A.E.S.S. = ARCHITECTURALLY EXPOSED STRUCTURAL STEEL		6. CLEAN ERECTED STRUCTURAL STEEL MEMBERS OF FIELD APPLIED MARKINGS, SOIL, AND MUD IN ACCORDANCE OF DIVISION 1 GENERAL REQUIREMENTS OF THE PROJECT SPECIFICATIONS FOR THIS PROJECT.	C. THE FACE OF ALL NEW PERMANENT CONCRETE SURFACES CUT FROM EXISTING CONCRETE SHALL BE CLEANED WITH A HIGH PRESSURE WATER SPRAY. ALLOW SURFACE TO DRY THOROUGHLY. COAT THE CONCRETE SURFACES WITH A BONDING AGENT AND FINISH WITH AN ACCEPTABLE PATCHING COMPOUND. ALL EXPOSED REINFORCEMENT SHALL BE CUT OFF AND GROUND FLUSH WITH THE NEW CONCRETE SURFACE.	
2. CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE OF ILLINOIS AND APPLICABLE CODES AND ORDINANCES AND THE 2015 INTERNATIONAL BUILDING CODE.	A.R. = ANCHOR ROD		7. THE STEEL ERECTOR IS SOLELY RESPONSIBLE FOR THE STEEL ERECTION AND SEQUENCE. THE STEEL ERECTION SEQUENCE AND ASSOCIATED CALCULATIONS, SIGNED AND SEALED BY AN ILLINOIS LICENSED STRUCTURAL ENGINEER, SHALL BE SUBMITTED TO ARCHITECT 15 WORKING DAYS PRIOR TO START OF STEEL ERECTION.	D. WHERE EXISTING CONCRETE REINFORCEMENT IS TO BE REUSED IN-PLACE, THE CONCRETE SHALL BE REMOVED IN A MANNER WHICH MINIMIZES DAMAGE TO THE REINFORCEMENT. DAMAGED REINFORCEMENT SHALL BE REPLACED BY A METHOD ACCEPTABLE TO THE ARCHITECT/STRUCTURAL ENGINEER.	
B. DESIGN LOADS	C.F.S.S. = COLD-FORMED STEEL STUD		F. TESTING AND INSPECTION	E. WHERE NEW CONCRETE IS TO BE CAST AGAINST EXISTING CONCRETE, THE CONTACT SURFACE SHALL BE ROUGHENED AND CLEANED WITH A HIGH PRESSURE WATER SPRAY, ALLOW SURFACE TO DRY THOROUGHLY PRIOR TO APPLICATION OF EPOXY BONDING AGENT.	
SNOW LOAD CRITERIA	B = BOTTOM		1. TESTING AND INSPECTION OF BOTH SHOP AND FIELD STRUCTURAL STEEL FABRICATION AND ERECTION WORK, INCLUDING WELDED AND BOLTED CONNECTIONS, SHALL BE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND AS NOTED BELOW.	F. ANY NEW STRUCTURAL STEEL REINFORCEMENT BEAMS ADJACENT TO NEW SLAB OPENINGS SHALL BE FULLY INSTALLED PRIOR TO ANY CUTTING FOR THE NEW OPENINGS.	
GROUND SNOW LOAD, Pg=25 PSF	BLDG. = BUILDING		2. ALL STRUCTURAL STEEL FABRICATION AND ERECTION SHALL BE VISUALLY INSPECTED.	G. PRIOR TO CUTTING OPENINGS IN SLAB SPANS, ADJACENT SPANS SHALL BE SHORED TEMPORARILY OR AS INDICATED.	
SNOW EXPOSURE FACTOR, Ce=1.0	B.L. = BUILDING LINE		3. ALL WELDERS SHALL BE AWS CERTIFIED.	H. ANY EXISTING WALL OPENINGS TO BE IN-FILLED SHALL BE REINFORCED WITH BARS TO MATCH THOSE IN THE ADJACENT EXISTING CONCRETE. DOWELS FOR THESE BARS SHALL BE PLACED INTO ADJACENT CONCRETE.	
SNOW LOAD IMPORTANCE FACTOR, Is=1.0	C = CONTRACTOR		4. ALL WELDS SHALL BE AWS/AISC PRE-QUALIFIED.	I. PRIOR TO CUTTING OPENINGS IN EXISTING WALLS, ANY ADJACENT IN-FILL WORK SHALL BE COMPLETED AND THE IN-FILL CONCRETE SHALL HAVE REACHED ITS 28-DAY STRENGTH.	
THERMAL FACTOR, Ct=1.0	C.D. = CONSTRUCTION DOCUMENTS		5. ALL WELDS SHALL BE VISUALLY INSPECTED PER AWS D1.1. WELD MEASUREMENTS SHALL BE PERFORMED FOR 15 PERCENT OF ALL WELDS ON A RANDOM BASIS.	J. SAWCUTS FOR NEW WALL OPENINGS SHALL NOT EXTEND PAST THE REQUIRED DIMENSIONS FOR THE OPENING. CORE DRILL CORNERS AND EXTEND SAWCUTS INTO THE CORE AND NOT BEYOND. CHIP OUT THE REMAINDER AT THE CORNERS TO ACHIEVE A CLEAN 90 DEGREE CORNER.	
FLAT ROOF SNOW LOAD, Pf=20 PSF	C.I.P. = CAST-IN-PLACE CONCRETE		6. MAGNETIC PARTICLE TESTING IN ACCORDANCE WITH ASTM E790 SHALL BE PERFORMED FOR A MINIMUM OF:	K. SEE "STRUCTURAL CONCRETE NOTES" AND SPECIFICATION SECTION 03300, "CAST-IN-PLACE CONCRETE", FOR ADDITIONAL REQUIREMENTS.	
WIND LOAD CRITERIA	C.J. = CONTROL JOINT/CONSTRUCTION JOINT		a. 10 PERCENT OF ALL SHEAR PLATE FILLET WELDS, AT RANDOM, FINAL PASS ONLY.	STEEL:	
BASIC WIND SPEED (3-SECOND GUST), V=115 MPH	C.M.U. = CONCRETE MASONRY UNIT		b. 20 PERCENT OF ALL CONTINUITY PLATE BRACING GUSSET PLATE FILLET WELDS AT RANDOM, FINAL PASS ONLY.	A. THE CONTRACTOR SHALL SUBMIT COORDINATED SHOP DRAWINGS TO THE ARCHITECT/STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO CUTTING OR ERECTION OF ANY NEW STEEL.	
RISK CATEGORY = II	CONN. = CONNECT, CONNECTION		c. 100 PERCENT OF TENSION MEMBER CONNECTION FILLET WELD (I.E. HANGER CONNECTION PLATES, ETC.) FOR ROOT AND FINAL PASS.	B. VERIFY THE ACCESSIBILITY TO THE BUILDING AND MAXIMUM WORKABLE MEMBER LENGTHS BEFORE COMMENCING WITH STEEL FABRICATION. IF THE NEW BEAMS CANNOT BE SHIPPED AND INSTALLED AS CONTINUOUS MEMBERS, ANY SPLICES SHALL CONSIST OF FULL PENETRATION WELDING OF THE FLANGES AND PARTIAL PENETRATION WELDING OF THE WEB OF THE NEW BEAM TO DEVELOP AT LEAST 75% OF THE BEAM WEB SHEAR CAPACITY. THE CONTRACTOR SHALL SUBMIT PROPOSED SPLICE DETAIL AND LOCATIONS TO THE ARCHITECT/STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION.	
WIND - EXPOSURE "B"	D.B.A. = DEFORMED BAR ANCHOR		d. 20 PERCENT BUILD-UP MEMBER FILLET WELDS, FINAL PASS ONLY.	C. REMOVE ALL LOADS FROM THE SLAB DIRECTLY ABOVE THE AREAS WHERE NEW STEEL IS TO BE INSTALLED. PROVIDE SHORING UNDER EXISTING SLABS AND BEAMS PRIOR TO AND DURING FABRICATION.	
WIND LOAD ON OPEN SIGNS AND LATTICE FRAMEWORK, Pw=27.4 PSF (MINIMUM)	D.P. = DRILLED PIER		e. 100 PERCENT OF BUILD-UP MEMBER FILLET WELDS IN ZONES OF MOMENT CONNECTIONS FOR ROOT AND FINAL PASS.	C. REMOVE ALL LOADS FROM THE SLAB DIRECTLY ABOVE THE AREAS WHERE NEW STEEL IS TO BE INSTALLED. PROVIDE SHORING UNDER EXISTING SLABS AND BEAMS PRIOR TO AND DURING CONSTRUCTION. ALL NEW STRUCTURAL STEEL SHALL BE IN PLACE PRIOR TO THE REMOVAL OF ANY EXISTING SLABS, AND SLABS SHALL BE COMPLETELY REMOVED PRIOR TO REMOVING SHORING.	
WIND ON SOLID SIGNS, P=30.8 PSF (MINIMUM)	D.S. = DOWN SPOUT		f. 10 PERCENT OF BUILD-UP MEMBER FILLET WELDS, AT RANDOM, FOR FINAL PASS ONLY.	D. PROVIDE NON-SHRINK GROUT AS REQUIRED FOR FULL BEARING OF THE EXISTING SLAB ON THE NEW BEAMS, UNLESS NOTED OTHERWISE.	
ICE LOAD CRITERIA (MONITOR SUPPORT FRAMING ONLY)	E = EXISTING		7. ULTRASONIC TESTING IN ACCORDANCE WITH AWS D1.1, SHALL BE PERFORMED FOR A MINIMUM OF:	E. REMOVE EXISTING FIREPROOFING LOCALLY AND CLEAN AREAS OF EXISTING STEEL TO BE WELDED. INSTALL NEW U.L. APPROVED FIREPROOFING MATERIAL ON ALL NEW STEEL AND AREAS WHERE FIREPROOFING WAS REMOVED OR DAMAGED DURING THE INSTALLATION OF THE NEW WORK. NEW STEEL SHALL HAVE FIRE RATINGS AS INDICATED ON THE ARCHITECTURAL DRAWINGS.	
NOMINAL ICE THICKNESS, T=0.75 INCH	E.C. = EPOXY COATED		a. 100 PERCENT OF ALL FULL PENETRATION WELDS.	F. SEE "STRUCTURAL STEEL NOTES" AND SPECIFICATION SECTION 05120, "STRUCTURAL STEEL" FOR ADDITIONAL REQUIREMENTS.	
CONCURRNET WIND SPEED, Vc=40 MPH	E.F. = EACH FACE		b. 20 PERCENT OF ALL COLUMN SPLICE WELDS, CHOSEN AT RANDOM.		
WEIGHT OF ICE, Di=31 PLF	E.J. = EXPANSION JOINT		c. 100 PERCENT OF TENSION MEMBER CONNECTION FILLET WELD (I.E. HANGER CONNECTION PLATES, ETC.) FOR ROOT AND FINAL PASS.		
WIND PRESSURE ON ICE, Wl=4.3 PLF	E.O.D. = EDGE OF DECK		d. 20 PERCENT BUILD-UP MEMBER FILLET WELDS, FINAL PASS ONLY.		
	E.O.S. = EDGE OF SLAB OR EDGE OF STEEL		e. 100 PERCENT OF BUILD-UP MEMBER FILLET WELDS IN ZONES OF MOMENT CONNECTIONS FOR ROOT AND FINAL PASS.		
	E.T.C. = ELEVATION TOP OF DRILLED PIER OR PILE CAP		f. 10 PERCENT OF BUILD-UP MEMBER FILLET WELDS, AT RANDOM, FOR FINAL PASS ONLY.		
	E.T.F. = ELEVATION TOP OF FOOTING		8. ALL BOLTED CONNECTIONS SHALL BE VISUALLY INSPECTED AND TESTED WITH A CALIBRATED TORQUE WRENCH TO VERIFY A MINIMUM OF 25 PERCENT OF BOLTS IN EACH CONNECTION (TWO BOLTS PER CONNECTION, MINIMUM) IN ACCORDANCE WITH RCSC'S SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS.		
	E.T.P. = ELEVATION TOP OF CONCRETE PIER		9. THE REQUIRED CONTACT SURFACE CONDITION OF ALL SLIP-CRITICAL CONNECTIONS SHALL BE VISUALLY INSPECTED IMMEDIATELY PRIOR TO BEAM ERECTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REMEDIAL WORK REQUIRED TO CONTACT SURFACES. THE OWNER'S STRUCTURAL STEEL TESTING LABORATORY SHALL PERFORM ALL SHOP AND FIELD INSPECTION AND TESTING AS OUTLINED ABOVE.		
	E.T.W. = ELEVATION TOP OF WALL		10. THE STRUCTURAL STEEL FABRICATOR AND ERECTOR SHALL SCHEDULE ALL WORK TO ALLOW THE ABOVE INSPECTION AND TESTING REQUIREMENTS TO BE COMPLETED.		
	E.W. = EACH WAY		11. THE STRUCTURAL STEEL FABRICATOR AND ERECTOR SHALL SCHEDULE ALL WORK TO ALLOW THE ABOVE INSPECTION AND TESTING REQUIREMENTS TO BE COMPLETED.		
	E.W.E.F. = EACH WAY EACH FACE		G. GENERAL		
	E.W.P. = ELEVATION WORKING POINT		1. PROVIDE GOVERNMENT ANCHORS FOR BEAMS BEARING ON MASONRY WHERE ANCHOR BOLTS OR OTHER ANCHORAGE IS NOT SPECIFIED.		
	F.D. = FLOOR DRAIN		2. STEEL THAT IS TO BE FIREPROOFED OR GALVANIZED AS SPECIFIED SHALL NOT BE PRIME PAINTED. SEE ARCHITECTURAL DRAWINGS FOR REQUIRED FIRE-PROOFING AND GALVANIZED LOCATIONS, ETC.		
	F.O.C. = FACE OF CONCRETE		3. ALL BEAMS SHALL BE FABRICATED WITH THE NATURAL CAMBER UP. PROVIDE ADDITIONAL CAMBER AS INDICATED ON THE STRUCTURAL DRAWINGS.		
	F.O.W. = FACE OF WALL		4. FIELD VERIFY ALL DIMENSIONS AND CONDITIONS OF EXISTING AND NEW CONSTRUCTION PRIOR TO FABRICATION.		
	F.S. = FAR SIDE		MODIFICATION TO EXISTING CONSTRUCTION NOTES:		
	G.B. = GRADE BEAM		GENERAL:		
	G.C./C.M. = GENERAL CONTRACTOR / CONSTRUCTION MANAGER		A. LOCATE AND MARK ALL UTILITIES, INCLUDING THOSE UNDERSLAB, PRIOR TO THE START OF ANY WORK.		
	G.F.F. = GEOTEXTILE FILTER FABRIC		B. THE EXISTING CONSTRUCTION SHOWN ON THESE DRAWINGS IS FOR INFORMATION ONLY. EXISTING CONSTRUCTION SHALL BE CHECKED AGAINST THE ORIGINAL CONSTRUCTION DOCUMENTS AND VERIFIED IN THE FIELD PRIOR TO FABRICATION AND ERECTION OF ALL NEW CONSTRUCTION.		
	H = HORIZONTAL		C. ANY EXISTING FINISHES REMOVED OR DAMAGED TO ACCOMPLISH ANY STRUCTURAL MODIFICATIONS SHALL BE REINSTATED AT THE COMPLETION OF THE MODIFICATION WORK, UNLESS NOTED OTHERWISE.		
	H.A.S. = HOT DIP GALVANIZED		D. ANY STEEL OR REINFORCEMENT BARS THAT HAVE BEEN CUT SHALL BE GROUND FLUSH WITH THE CONCRETE SURFACE AND FINISHED WITH EPOXY PAINT.		
	JST. = JOIST		E. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF ALL ERECTION PROCEDURES AND SEQUENCES.		
	M.B.M. = METAL BUILDING MANUFACTURER		F. THE CONTRACTOR SHALL VERIFY/DETERMINE THE LOCATION OF ALL EXISTING UTILITIES AND UTILITY LINES IN THE WORK AREA AND SHALL SUBSEQUENTLY DETERMINE ANY INTERFERENCE WITH THE NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION. THE ENGINEER/ARCHITECT SHALL BE NOTIFIED IN WRITING OF ANY AND ALL SUCH INTERFERENCES.		
	MFR. = MANUFACTURER				
	N.S. = NEAR SIDE				
	N.S.N.S. = NON-SHRINK, NON-STAIN				
	O.C. = ON CENTER				
	O.D. = OVERFLOW DRAIN				
	O.F. = OUTSIDE FACE				
	P.C. = PRECAST CONCRETE				
	PLYWD. = PLYWOOD				
	P.T. = POST TENSIONED CONCRETE				
	S.L. = SLAB LINE				
	S.O.G. = STUD ON GRADE				
	T = TOP				
	U.N.O. = UNLESS NOTED OTHERWISE				
	V = VERTICAL				
	V.I.F. = VERIFY IN FIELD				
	W.W.F. = WELDED WIRE FABRIC				
	Z.R.C. = ZINC-RICH COATING				



1 a. NEW STEEL FRAMING - TOP OF STEEL EL = 664'-2"
b. EXISTING ROOF - TOP OF STEEL = BOTTOM OF DECK = 653'-0 1/2"
c. EXISTING ROOF - TOP OF STEEL = BOTTOM OF DECK = 652'-4 1/2"

2 "(e) RD1" INDICATES EXISTING 1 1/2" 22 GAUGE TYPE B METAL ROOF DECK (V.I.F.)

3 ——— INDICATES L3 1/2 x 3 1/2 x 1/4 KICKER FROM COLUMN TO W-BEAM AT 45° ANGLE.

4 ALL NEW STEEL TO BE HOT-DIP GALVANIZED (H.D.G.).

5 ANY ROOF AND WALL FLASHING REMOVED AND/OR DAMAGED SHALL BE REPLACED IN KIND TO PRODUCE
WATERTIGHT CONDITION.

6 "C1" INDICATES NEW HSS6.000x0.250 POST

7 EXISTING MASONRY WALLS

8 a. "(e) M1" INDICATED EXISTING 8" CMU WALL WITH #5 VERTICAL @ 32" O.C. (V.I.F.)
b. "(e) M2" INDICATED EXISTING 12" CMU WALL WITH #5 VERTICAL @ 32" O.C. (V.I.F.)

"(e) Mx" INDICATES EXISTING MASONRY LINTEL (BELOW).

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date drawn by MB checked by

Sheet No. **S100**