	Reviewer Agency Date	2	3	B-2023 ⁴ -049030-0000	+ ,	
	Bleakley, Neil T PE-B 07/19/2024 Walker, James J Fire Reviewer 04/02/2024	DESIGN CRITERIA:	CONCRETE:	PRE-ENGINEERED METAL BUILDING:		
	Smith, Keri A ERM Reviewer 09/30/2024	 CODES AND REFERENCE STANDARDS: FLORIDA BUILDING CODE (FBC) - 2020 EDITION 2020 FBC DESIGN DATA: 	 CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF ACI 301 - SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS. 	 METAL BUILDINGS SHALL BE DESIGNED AND FABRICATED UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF FLORIDA. MANUFACTURER SHALL MEET THE MEMBERSHIP APPLICATION REQUIREMENTS OF MBMA. 		
	ABBREVIATION ZB Approval Data	A. ROOF LIVE LOAD: B. WIND LOAD (3-SEC GUST): BASIC WIND SPEED 167 MPH (ULTIMATE)	2. STANDARDS: DESIGN: ACI 318 - 2014 DETAILS: ACI 315 - LATEST EDITION	2. DESIGN FOR THE METAL BUILDING SHALL MEET ALL CURRENT FBC 2020 REQUIREMENTS AND SHALL MEET THE FOLLOWING CRITERIA:		COMPANIES®
	AB ANCHOR BOLT(S) L LEDGER ACI AMERICAN CONCRETE INSTITUTE LBS POUND(S)	a. RISK CATEGORY: b. EXPOSURE CATEGORY: c. INTERNAL PRESSURE COEFFICIENT: 107 MITT (SETIMATE) II EXPOSURE CATEGORY: [C] 20. EXPOSURE CATEGORY: 20. EXPOSURE COEFFICIENT: 20. EXPOSURE COEFFICIENT: 20. EXPOSURE COEFFICIENT: 20. EXPOSURE CATEGORY: 20.	MATERIALS: ACI 301 - LATEST EDITION 3. DESIGN STRENGTH: SLAP ON GRADE: 4000 PSI COMPRESSIVE STRENGTH © 28 DAYS NORMAL WEIGHT CONCRETE	A. WIND LOAD - BASIC WIND SPEED (3 SEC. GUST): RISK CATEGORY: EXPOSURE CATEGORY: II ICI		C&S Engineers, Inc.
	ADDL ADDITIONAL Ldh REBAR DÉVELOPMENT LENGTH AESS ARCHITECTURALLY EXPOSED STRUCTURAL STEEL Lext REBAR STRAIGHT EXTENSION AFF ABOVE FINISH FLOOR AND ADDITIONAL LOS STRUCTURAL STEEL STRUCTURAL STEEL LOS STRUCTURAL STEEL LOS STRUCTURAL STEEL LOS STRUCTURAL STEEL LOS STRUCTURAL STEEL STRUCTURAL STEEL STRUCTURAL STEEL STRUCTURAL STEEL STRUCTURAL STEEL STRUCTURAL STEEL	d. WIND-BOURNE DEBRIS REGION: [YES] GENERAL:	SLAB ON GRADE: 4000 PSI COMPRESSIVE STRENGTH @ 28 DAYS, NORMAL WEIGHT CONCRETE FOUNDATIONS: 4000 PSI COMPRESSIVE STRENGTH @ 28 DAYS, NORMAL WEIGHT CONCRETE BEAMS: 4000 PSI COMPRESSIVE STRENGTH @ 28 DAYS, NORMAL WEIGHT CONCRETE	3. FOUNDATION DESIGN HAS BEEN PREPARED USING PRELIMINARY REACTIONS DEVELOPED BASED ON INITIAL PEMB BUILDING LAYOUT AND LOADING CRITERIA. FINAL REACTIONS FOR PEMB SHALL BE		605 E. Robinson Street. Suite 210 Orlando, Florida 32801 Phone: 407-422-1118
D	AISC AMERICAN INSTITUTE OF STEEL CONSTRUCTION L135 REBAR 135 DEGREE HOOK LENGTH ALT ALTERNATE L180 REBAR 180 DEGREE HOOK LENGTH ALUM ALUMINUM LL LIVE LOAD ARCH ARCHITECT OR ARCHITECTURAL DOCUMENTS LLH LONG LEG HORIZONTAL	THE CONTRACTOR IS RESPONSIBLE FOR THE SURVEY AND FIELD VERIFYING ALL EXISTING CONDITIONS.	 SUBMIT PROPOSED CONCRETE MIX DESIGN TO THE OWNER'S REPRESENTATIVE AND TESTING LABORATORY CONCURRENTLY FOR REVIEW AND APPROVAL. 	PROVIDED FOR ENGINEER REVIEW UPON WHICH FOUNDATIONS DESIGN SHOWN HEREIN WILL BE REVIEWED AND REVISED AS NECESSARY. CONTRACTOR SHALL NOT COMMENCE FOUNDATION WORK WITHOUT RECEIVING ENGINEER APPROVAL AND/OR FOUNDATION DRAWINGS ISSUED FOR CONSTRUCTION	D	Fax: 407-841-9149 FL. L.B. No. 7513 COA No. 7602
	ASCE AMERICAN SOCIETY OF CIVIL ENGINEERS ASTM AMERICAN SOCIETY FOR TESTING AND MATERIALS AWS AMERICAN WELDING SOCIETY LONG LEG TIONIZONTAL LONG LEG TIONIZONTAL LONG LEG TIONIZONTAL LONG SIDE HORIZONTAL LONG SIDE VERTICAL	 WORK ON STRUCTURAL DRAWINGS REPRESENTS FINAL CONDITIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR THE STRUCTURAL STABILITY OF ALL INTERMEDIATE CONDITIONS DURING CONSTRUCTION. 	5. CONCRETE COVER OVER BARS: CONCRETE DEPOSITED ON GROUND 3". FORMED CONCRETE EXPOSED TO GROUND, WEATHER OR WATER 2".	AS A RESULT OF REQUIRED DESIGN CHANGES FOLLOWING REVIEW OF FINAL PEMB REACTIONS. CONTRACTOR DECISION TO PROCEED WITHOUT ENGINEER APPROVAL AND/OR WITHOUT REVISED CONSTRUCTION DOCUMENTS DOES SO AT THEIR OWN RISK.		www.cscos.com
	AVG AVERAGE LP LOW POINT LWC LIGHT WEIGHT CONCRETE	3. THE CONTRACTOR SHALL COORDINATE THE ARCHITECTURAL, PLUMBING, HVAC, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION NOT INDICATED ON THE	WALLS & SLABS NOT DIRECTLY EXPOSED TO GROUND, WATER, OR WEATHER 1-1/2". 6. CLEAN AND APPLY BONDING AGENT TO ALL EXISTING CONCRETE SURFACES TO RECEIVE NEW CONCRETE. ALL CONCRETE TO CONFORM WITH THE LATEST ACI BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE. (ACI - 301)	4. PROVIDE STRUCTURAL DESIGN DATA FOR THE FRAMING MEMBERS AND COVERING OF THE METAL BUILDING SYSTEM NECESSARY TO SHOW COMPLIANCE WITH THE SPECIFICATIONS. THE STRUCTURAL DESIGN DATA INCLUDES MAGNITUDE AND LOCATION OF DESIGN LOADS AND SUPPORT CONDITIONS,		
	B/CONC BOTTOM OF CONCRETE MATL MATERIAL B/FTG BOTTOM OF FOOTING MAX MAXIMUM B/DECK BOTTOM OF DECK MCJ MASONRY CONTROL JOINT BLDG BUILDING MECH MECHANICAL	STRUCTURAL DRAWINGS. SUCH INFORMATION INCLUDES, AS A MINIMUM, EMBEDDED SLEEVED AND INSERTS, MISCELLANEOUS DETAILS, SPECIAL FLOOR FINISHED, DOOR THRESHOLDS, SLOPES TO DRAINS, NAILERS, OPENINGS IN STRUCTURAL ELEMENTS, ETC.	 SECTIONS AND DETAILS MAY NOT SHOW ALL REQUIRED CONCRETE REINFORCEMENT. ADDITIONAL REINFORCEMENT MAY BE DESCRIBED IN SCHEDULES (IF APPLICABLE) AND NOTES. 	MATERIAL PROPERTIES, AND THE TYPE AND SIZE OF STRUCTURAL MEMBERS. DESIGN DATA MAY BE MANUALLY OR COMPUTER GENERATED IN ACCORDANCE WITH THE METAL BUILDING SYSTEM MANUFACTURER'S USUAL PROCEDURES. METAL BUILDING DESIGN AND FABRICATION SUBMITTAL SHALL		
	B/MAT BOTTOM OF MAT BPE BOTTOM OF PILE ELEVATION B/SLAB BOTTOM OF SLAB MEZZ MEZZANINE MFR MANUFACTURER MID MIDDLE	4. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE ERECTION PROCEDURE AND SEQUENCE TO ENSURE THE SAFETY OF THE STRUCTURE AND ITS COMPONENT PARTS DURING ERECTION. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF WHATEVER TEMPORARY	8. PROVIDE BAR SUPPORTS AND SPACERS IN ACCORDANCE WITH REQUIREMENTS OF ACI 315 UNLESS NOTED OTHERWISE.	BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF FLORIDA. A. PROVIDE A STATEMENT/LETTER BY THE DESIGN ENGINEER STATING THAT THE STRUCTURAL DESIGN OF THE METAL BUILDING IS IN COMPLIANCE WITH THE SPECIFIED CODE REQUIREMENTS. THIS LETTER		
	B/STL BOTTOM OF STEEL MIN MINIMUM MISC MISCELLANEOUS CC CONCRETE COLUMN MEP MECHANICAL, ELECTRICAL AND	BRACING, GUYS, TIE-DOWNS, AND/OR SHORING MAY BE NECESSARY. SUCH MATERIAL SHALL BE REMOVED AND SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AFTER THE COMPLETION OF THE PROJECT.	9. NOT ALL ITEMS EMBEDDED IN THE CONCRETE ARE SHOWN ON THE STRUCTURAL DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE INSTALLATION OF ALL OPENINGS AND EMBEDDED ITEMS IN THE CONCRETE PERTAINING TO THE DIFFERENT TRADES AS SHOWN ON THEIR PERSPECTIVE DRAWINGS. SLEEVES, MECHANICAL OPENINGS, CONDUITS, PIPES, RECESSES, DEPRESSIONS, CURBS, AND ALL EMBEDDED ITEMS SHALL BE PROVIDED AS SHOWN ON THE ARCHITECTURAL,	SHALL BE SIGNED AND SEALED BY THE METAL BUILDING SYSTEM ENGINEER WHO IS A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF FLORIDA.		
	CB CONCRETE BEAM PROCESS CALCS CALCULATIONS MTL METAL CIP CAST IN PLACE MO MASONRY OPENING CJ CONTROL JOINT OR CONSTRUCTION JOINT	5. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR FOR INITIATION, MAINTAINING, AND SUPERVISING ALL SAFETY PROCEDURES. THE STRUCTURAL ENGINEER OF RECORD IS NOT RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION FOR RELATED SAFETY	MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS AND AS REQUIRED BY THE EQUIPMENT MANUFACTURERS. 10. EMBEDDED CONDUITS, PIPES, OR OTHER UTILITIES NOT SHOWN ON THE STRUCTURAL DRAWINGS SHALL NOT BE PERMITTED	5. TESTING LABORATORY SHALL INSPECT HIGH-STRENGTH BOLT TIGHTENING AS REQUIRED BY THE BUILDING CODE.		
	CJP COMPLETE JOINT OR CONSTRUCTION JOINT CJP COMPLETE JOINT PENETRATION NAAMM NATIONAL ASSOCIATION OF CLR CLEAR CMU CONCRETE MASONRY UNIT METAL MANUFACTURERS	PROCEDURES. 6. TYPICAL NOTES AND DETAILS SHOWN ON STRUCTURAL TYPICAL DETAILS SHALL BE APPLICABLE TO	WITHOUT WRITTEN PERMISSION FROM THE ENGINEER. WHERE EMBEDDED ITEMS ARE ALLOWED, THEY SHALL BE SPACED NOT LESS THAN THREE DIAMETERS ON CENTER EACH WAY BUT WITH NOT LESS THAN TWO INCHES CLEAR SPACE BETWEEN EMBEDDED ITEMS. THE TOTAL DEPTH OF ALL EMBEDDED ITEMS AND THE CLEAR SPACE BETWEEN THEM SHALL NOT EXCEED 1/3	6. SUBMIT A WRITTEN STATEMENT WITH A COPY DIRECTLY TO THE STRUCTURAL ENGINEER AT THE COMPLETION OF THE PART OF THE PROJECT SUMMARIZING THE TESTS/INSPECTIONS PERFORMED AND THE COMPLIANCE OF THE TEST RESULTS. ITEMS INSPECTED WITH THE SPECIFIED REQUIREMENTS.		ATL
	COL COLUMN NF NEAR FACE CONC CONCRETE NIC NOT IN CONTRACT CONT CONTINUOUS NO NUMBER	ALL PARTS OF THE STRUCTURAL WORK EXCEPT WHERE SPECIFICALLY REQUIRED OTHERWISE ON THE CONTRACT DOCUMENTS. DETAILS NOT SPECIFICALLY SHOWN SHALL BE SIMILAR TO THOSE SHOWN FOR THE MOST NEARLY SIMILAR CONDITION ON THE DRAWINGS AS DETERMINED BY THE	OF THE TOTAL CONCRETE DEPTH AND SHALL BE CONFINED TO THE MIDDLE THIRD OF THE CONCRETE DEPTH. 11. UNLESS OTHERWISE NOTED ON THE DRAWINGS, THE SIZE OF CONCRETE PLACEMENTS SHALL BE LIMITED AS FOLLOWS: A. SLABS ON GRADE: 30 FT MAX DIMENSION AND 900 SQ FT. (UNLESS INTERMEDIATE CONTROL JOINTS ARE PROVIDED)	7. PROVIDE MANUFACTURERS' STANDARD 10 YEAR WARRANTY ON GALVALUME ROOF PANELS, MANUFACTURER'S 1 YEAR WARRANTY ON STRUCTURAL COMPONENTS, AND ENGINEER'S LETTER OF CERTIFICATION STATING THE ROOF MEETS THE REQUIREMENTS OF A U.L. 90 RATING.		
	G CENTERLINE NS NEAR SIDE NTS NOT TO SCALE D COMPOSITE STEEL DECK / STEEL ROOF DECK / FORM DECK O.C. ON CENTER	DO NOT SCALE DRAWING DIMENSIONS. IN THE EVENT OF A GRID LINE DIMENSION CONFLICT, THE ARCHITECTURAL DRAWINGS SHALL COVERN ARCHITECTURAL DRAWING SHALL DRAWINGS SHALL COVERN ARCHITECTURAL DRAWING SHALL COVERN ARCHITECTURAL DRAWING SHALL DRAWIN	12. PROVIDE 3/4" CHAMFER ON ALL EXPOSED CONCRETE EDGES U.N.O.	8. FRAMING FABRICATION SHALL BE FABRICATED MEMBERS IN ACCORDANCE WITH AISC SPECIFICATIONS FOR PLATE, BAR, TUBE, OR ROLLED STRUCTURAL SHAPES. FRAMING MEMBER FINISH SHALL BE CLEANED		⋖
	FORM DECK Db DIAMETER OF REBAR DBL DOUBLE DEPR DEPRESSION O.C. ON CENTER O.C.E.W. ON CENTER, EACH WAY OPP OPPOSITE	ARCHITECTURAL DRAWINGS SHALL GOVERN. 8. FOR ELEVATIONS REFER TO THE PLAN SHEETS.	13. THROUGH PENETRATIONS FOR CONCRETE WALLS OR SLABS SHALL CONFORM TO STANDARD DETAIL DRAWINGS.14. MULTIPLE PENETRATIONS SHALL NOT BE SPACED CLOSER THAN THREE TIMES THE DIAMETER OR THREE TIMES THE WIDTH OF	AND SHOP PRIMED. 9. BUILDING FRAMING DETAILS ARE AS SHOWN ON THE ARCHITECTURAL DRAWINGS.		H, FLORID,
С	DEG DEGREE PCI PRESTRESSED CONCRETE DTL DETAIL INSTITUTE DIA DIAMETER PC PILE/PIER CAP	9. DRILLING, CORING, SAW CUTTING AND ETC. INTO CONCRETE SHALL MEET THE LATEST OSHA REGULATIONS FOR SILICA DUST EXPOSURE.	THE LARGER OPENING WITHOUT APPROVAL OF THE ENGINEER. REINFORCING:	10. FRAME FASTENERS SHALL BE AS REQUIRED BY THE METAL BUILDING MANUFACTURER ENGINEER'S DESIGN REQUIREMENTS. FASTENERS SHALL BE MANUFACTURER'S STANDARD TYPE FINISH TO MATCH ADJACENT SURFACES WHEN EXTERIOR EXPOSED, SELF TAPPING, NON-CORROSIVE TYPE REQUIRED TO	С	LM BEACH
	DIAG DIAGONAL PCF POUNDS PER CUBIC FOOT DIM DIMENSION PL PLATE DL DEAD LOAD PLF POUNDS PER LINEAR FOOT DN DOWN PSI POUNDS PER SQUARE INCH	10. DO NOT PLACE MATERIALS OR EQUIPMENT ON UNFINISHED FLOORS OR ROOFS IN EXCESS OF 20 PSF, NOT ON FINISHED FLOORS OR ROOFS IN EXCESS OF THE INDICATED DESIGN LIVE LOADS. AVOID IMPACT LOADING.	1. REINFORCING: BARS: ASTM A-615 GRADE 60 - DEFORMED.	MAINTAIN LOAD REQUIREMENTS AND MEET WARRANTY REQUIREMENTS, AND WEATHERTIGHT INSTALLATION; SAME FINISH AS CLADDING. STANDING SEAM ROOF CONCEALED FASTENERS SHALL BE CONCEALED SLIDING CLIPS, WITHIN THE STANDING SEAM, SUITABLE FOR ROOF CONSTRUCTION USING		A
	DN DOWN DP DRILLED PIER PT, P/T POUNDS PER SQUARE INCH PSF POUNDS PER SQUARE FOOT PSF POUNDS PER SQUARE FOOT	11. INFORMATION RELATED TO EXISTING CONDITIONS REPRESENTS KNOWLEDGE BASED UPON INFORMATION PROVIDED BY THE OWNER BUT WITHOUT GUARANTEE OF ACCURACY. REPORT EXISTING CONDITIONS THAT VARY FROM THOSE SHOWN ON THE CONTRACT DOCUMENTS TO THE	2. SPLICES IN REINFORCEMENT: UNLESS OTHERWISE NOTED, ALL SPLICES AND ANCHORAGES SHALL BE PER ACI. STAGGER SPLICES WHEREVER POSSIBLE AND LOCATE SO AS NOT TO IMPAIR STRENGTH OF MEMBERS.	INSULATION BELOW AS SPECIFIED BELOW THE PANEL. 11. ROOF SHEET SHALL BE 24 GAGE MINIMUM METAL THICKNESS GALVALUME PANEL, 20 OR 24 INCH WIDE PANELS (411, 20 PATING IS RECUIDED). REFER TO APPOINTED TO APPOINT FOR PANEL PROFILES.		
	EA EACH EF EACH FACE EFEW EACH FACE, EACH WAY	OWNER'S REPRESENTATIVE. DO NOT DEVIATE FROM THE CONTRACT DOCUMENTS WITHOUT WRITTEN DIRECTION FROM THE OWNER'S REPRESENTATIVE.	3. REINFORCEMENT WORK OF DETAILING, FABRICATION, AND ERECTION SHALL CONFORM TO THE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318), ACI DETAILING MANUAL-2004 (SP 66) CRSI MANUAL OF STANDARD PRACTICE (MSP 2009), AND THE STRUCTURAL WELDING CODE- REINFORCING STEEL	PANELS, (U.L. 90 RATING IS REQUIRED). REFER TO ARCHITECTURAL ELEVATIONS FOR PANEL PROFILES. 12. WALL SHEET SHALL BE 26 GAGE MINIMUM METAL THICKNESS GALVALUME PANEL. REFER TO ARCHITECTURAL ELEVATIONS FOR PANEL PROFILES.		Š. –
	EJ EXPANSION JOINT RO ROOF OPENING ELEC ELECTRICAL RAD RADIUS EL ELEVATION REINFORCED OR REINFORCING EMB EMBEDMENT	EXCAVATION AND FILL: 1. DEWATER, EXCAVATE, FILL AND COMPACT SOIL IN PREPARATION FOR SLAB ON GRADE, WALLS, AND	(AWS D1.1). 4. PROVIDE AND SCHEDULE ON SHOP DRAWINGS THE NECESSARY ACCESSORIES TO HOLD ALL REINFORCEMENT	13. SOFFIT PANEL FASCIA PANEL AND FASCIA BACK PANEL SHALL BE 26 GAGE MINIMUM METAL THICKNESS, GALVALUME FINISH. REFER TO ARCHITECTURAL ELEVATIONS FOR PANEL PROFILES.		DA, II
	EMBEDMENT EOS EDGE OF SLAB EQ EQUAL EQUIP EQUIPMENT SIM SIMILAR	FOUNDATION IN ACCORDANCE WITH THE RECOMMENDATIONS PRESENTS IN THE GEOTECHNICAL REPORT PREPARED BY ARDAMAN & ASSOCIATES, INC. DATED NOVEMBER 11, 2022.	SECURELY IN POSITION. 5. WHERE CONTINUOUS REINFORCEMENT IS CALLED FOR, IT SHALL BE EXTENDED CONTINUOUSLY AROUND CORNERS AND LAPPED AT SPLICES OR AT DISCONTINUOUS ENDS. LAPS SHALL BE CLASS B TENSION LAP	14. CLOSURE PIECES SHALL BE MANUFACTURER'S STANDARD, SUCH AS RAKE TRIM, EAVE TRIM, CORNER TRIM, INSIDE CORNER TRIM, HEAD TRIM, JAMB TRIM, BASE TRIM, SOFFIT CAP TRIM, FASCIA CAP AND BASE		LORI
	EW EACH WAY SJI STEEL JOIST INSTITUTE EXIST EXISTING SOG SLAB ON GRADE EXP EXPANSION SPEC SPECIFICATION	2. ALL EXCAVATIONS SHALL BE DEWATERED TO MAINTAIN GROUNDWATER AT LEAST 24" BELOW FOOTING BEFORE PLACING OF CONCRETE.	SPLICES UNLESS OTHERWISE NOTED. 6. WHERE REINFORCEMENT IS NOT SHOWN ON DRAWINGS, PROVIDE REINFORCEMENT IN ACCORDANCE WITH	TRIM, EAVE GUTTER AND DOWNSPOUTS, AND ALL OTHER NECESSARY TRIM TO FINISH OUT THE METAL BUILDING SYSTEM. COLOR OF TRIM PIECES SHALL BE SELECTED FROM MANUFACTURER'S STANDARD COLOR. REFER TO ARCHITECTURAL DRAWINGS FOR CLOSURE PIECES SUCH AS RAKE TRIM, EAVE TRIM, FTC.	\vdash	0N P
	EXT EXTERIOR SQ SQUARE SS STAINLESS STEEL FDN FOUNDATION STD STANDARD FF FINALLY FLOOR	3. SLOPE THE EXTERIOR GRADE AWAY FROM THE STRUCTURE. REFER TO CIVIL PLANS FOR DETAILS. 4. PROVIDE TEMPORARY OR PERMANENT SUPPORTS, SHORING, SHEETING OR BRACING SO THAT NO HARD TO A DETAIL OF THE PLANT OF THE PLA	APPLICABLE DETAILS AS DETERMINED BY THE ENGINEER. IN NO CASE SHALL THE REINFORCEMENT BE LESS THAN THE MINIMUM PERMITTED BY THE APPLICABLE CODES.	15. SEALANTS SHALL BE MANUFACTURER'S STANDARD.		VIATI
	FF FINISH FLOOR FIN FINISH FD FLOOR DRAIN FLG FLANGE FF FINISH STIFF STIFF STIFF STEEL SW SHEARWALL	HORIZONTAL MOVEMENT OR VERTICAL SETTLEMENT OCCURS TO ADJACENT STRUCTURES, STREETS, SOILS OR UTILITIES ADJACENT TO OR WITHIN THE PROJECT SITE. 5. BACKFILL SHALL BE PLACED IN COMPACTED LIFTS PER THE EARTHWORK SPECIFICATIONS.	 WHERE REINFORCEMENT IS REQUIRED IN SECTION, REINFORCEMENT IS CONSIDERED TYPICAL WHEREVER THE SECTION APPLIES. REINFORCEMENT SHALL BE CONTINUOUS THROUGH CONSTRUCTION JOINTS. 	16. ROOF JACKS SHALL BE MANUFACTURER'S STANDARD. 17. ANCHOR BOLTS SHALL BE UNPRIMED, ASTM A 193 GRADE B-7 OR ASTM F-1554 GRADE 105 OR EQUIVALENT;		IIC A
	FLR FLOOR T/BTM CHORD TOP OF BOTTOM CHORD FRMG FRAMING T&B TOP AND BOTTOM F.S. FOUNDATION STEP T/CAP TOP OF CAP	6. NO FOUNDATION CONCRETE SHALL BE PLACED IN WATER.	9. DOWELS SHALL MATCH BAR SIZES UNLESS OTHERWISE NOTED.	DIAMETER, LENGTH, AND QUANTITY AS SPECIFIED BY THE METAL BUILDING ENGINEER. 18. ROOF VENTS SHALL BE FIXED CONTINUOUS TYPE GRAVITY FLOW GALVANIZED STEEL 10' LONG TYPE WITH 1/4 INCH GALVANIZED HARDWARE CLOTH BIRD SCREEN AND 12 INCH THROAT.		TLAN PBI F
	FT FOOT (FEET) T/CONC. TOP OF CONCRETE FTG FOOTING T/CURB TOP OF CURB FY YIELD STRESS STEEL T/PECK TOP OF FOOTING T/FTG TOP OF FOOTING	 DO NOT BACKFILL BEHIND FOUNDATION WALLS UNTIL THE PERMANENT LATERAL SUPPORT SYSTEM IS IN PLACE AND OF FULL STRENGTH. COMPONENTS OF ANY SUPPORT OF EXCAVATION SYSTEM SHALL REMAIN IN PLACE UNTIL ALL PERMANENT 	10. REINFORCEMENT SHALL NOT BE TACK WELDED. REINFORCING BARS TO BE WELDED SHALL CONFORM TO ASTM A706 F _y = 60KSI.	19. METAL BUILDING DESIGNER WILL ENSURE THAT ALL BRACING AND FRAMING IS COORDINATED WITH THE ARCHITECTURAL PLANS. ENSURE THAT ANY ADDITIONAL FRAMING OR BRACING DOES NOT CONFLICT		A A
	T/FTG TOP OF FOOTING G GRATING T/GRADE TOP OF GRADE GA GAGE OR GAUGE T/GRATING TOP OF GRATING GALV GALVANIZED TL TOTAL LOAD	STRUCTURAL SYSTEMS AT AND BELOW GROUND ARE IN PLACE.	11. REINFORCEMENT INSTALLATION SHALL BE COMPLETED AT LEAST 24 HOURS BEFORE A CONCRETE PLACEMENT OR SHALL BE COORDINATED WITH THE OWNERS REPRESENTATIVE TO ENSURE PROPER TIME IS ALLOWED FOR THE INSPECTION OF THE REINFORCING. NOTIFY THE ENGINEER OF COMPLETION.	WITH ANY OPENINGS.		AL AIRPOF
В	GB GRADE BEAM T/MAT TOP OF MAT T/PC TOP OF PILE CAP HSA HEADED STUD ANCHOR T/PIER TOP OF PIER ELEVATION	FOUNDATIONS: 1. THE FOUNDATION HAS BEEN DESIGNED IN ACCORDANCE WITH THE RECOMMENDATIONS CONTAINED	12. ALL REINFORCEMENT SHALL BE SECURELY TIED IN PLACE AT THE POSITIONS SHOWN ON THE DRAWINGS BEFORE PLACING CONCRETE.		В	RNATIONA
	HORIZ HORIZONTAL T/SLAB TOP OF SLAB H.P. HIGH POINT T/S TOP OF STEEL HS HIGH STRENGTH T/WALL TOP OF WALL ELEVATION	IN THE GEOTECHNICAL REPORT PREPARED BY ARDAMAN & ASSOCIATES, INC. DATED NOVEMBER 11, 2022. 2. THE GEOTECHNICAL REPORT NAMED ABOVE IS AVAILABLE TO THE CONTRACTOR UPON REQUEST TO	13. UNLESS NOTED OTHERWISE, ALL BARS SHALL BE EMBEDDED TO A MINIMUM DEPTH (Ld OR Ldh)			ACH INTE
	HT HEIGHT TYP TYPICAL I (IN4) MOMENT OF INERTIA IBC INTERNATIONAL BUILDING CODE	THE GEOTECHNICAL REPORT NAMED ABOVE IS AVAILABLE TO THE CONTRACTOR OPON REQUEST TO THE OWNER. THE ARCHITECT AND ENGINEER WILL NOT BE RESPONSIBLE FOR THE ACCURACY OR APPLICABILITY SUCH DATA THEREIN.	SLAB ON GRADE PLACEMENT: 1. ALL SLABS SHALL BE PLACED ON 12" OF STRUCTURAL FILL, FREE DRAINING COMPACTED GRANULAR MATERIAL 1. ALL SLABS SHALL BE PLACED ON 12" OF STRUCTURAL FILL, FREE DRAINING COMPACTED GRANULAR MATERIAL			PALM BE
	ICC INTERNATIONAL CODE COUNCIL UL UNDERWRITERS LABORATORIES ID INSIDE DIAMETER UNO UNLESS NOTED OTHERWISE IN INCH UT ULTRASONIC TESTING	3. NO RESPONSIBILITY IS ASSUMED BY THE ENGINEER FOR THE VALIDITY OF THE SUBSURFACE CONDITIONS DESCRIBED ON THE DRAWINGS, SPECIFICATIONS, TEST BORINGS, OR TEST PITS. THESE DATA ARE INCLUDED ONLY TO ASSIST THE CONTRACTOR DURING BIDDING AND SUBSEQUENT	WITH LESS THAN 5% FINES PASSING THE #200 SIEVE. 2. THE DESIGN OF CONCRETE MIXES, LOCATING OF CONSTRUCTION JOINTS IN SLABS, STAGGERING OF POUR PLACEMENTS, LOCATION OF POUR STRIPS, AND PLACEMENT AND CURING PROCEDURES ARE TO BE PERFORMED			
	INFO INFORMATION INT INTERIOR VERT VERT VERTICAL JT JOINT WP WORK POINT	CONSTRUCTION. THEY REPRESENT CONDITIONS ONLY AT THE SPECIFIC LOCATIONS AT THE TIME DATA WAS COLLECTED. 4. MAXIMUM SOIL BEARING PRESSURE = 2,500 PSF	BY THE CONTRACTOR IN A MANNER THAT WILL MINIMIZE SHRINKAGE CRACKING OF THE SLABS. 3. PLACE INTERIOR SLABS ON VAPOR RETARDER (15 MIL. MIN UNO) WITH SOILS PREPARED PER THE GEOTECHNICAL			
	WP WORK POINT WWR WELDED WIRE REINFORCEMENT WF WALL FOOTING WSI WSI KIPS PER SQUARE INCH W WALL W WALL W WALL W WALL W WALL W WALL W W W W W W W W W	5. FOOTINGS TO BEAR ON NATURAL UNDISTURBED SOIL OR COMPACTED STRUCTURAL FILL PER THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS TO EXHIBIT A DENSITY OF AT LEAST 95 PERCENT OF	ENGINEER'S RECOMMENDATIONS. 4. SUBSEQUENT PLACEMENT OF ALTERNATE SLAB STRIPS SHOULD NOT BE MADE SOONER THAN 24 HOURS AFTER			MARK DATE DESCRIPTION REVISIONS
	X-STRONG EXTRA STRONG XX-STRONG DOUBLE EXTRA STRONG	THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 1557 (MODIFIED PROCTOR). 6. GEOTECHNICAL ENGINEER MUST REVIEW THE FINAL SITE AND GRADING PLANS TO VALIDATE ALL RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL REPORT AND CONFIRM THEIR FINDINGS. THE	THE COMPLETION OF SLAB FINISHING OPERATIONS AND THE INITIATION OF CURING PROCEDURES. 5. THE CONTRACTOR SHALL REPAIR ALL SHRINKAGE CRACKS DESIGNATED AS UNACCEPTABLE BY THE OWNER, ARCHITECT, OR ENGINEER BY EPOXY INJECTION AT NO ADDITIONAL COST TO THE CONTRACT.			PROJECT NO: K98.002.001 DATE: OCTOBER 2023
	# NUMBER	RECOMMENDATIONS SETFORTH IN THE GEOTECHNICAL REPORT AND CONFIRM THEIR FINDINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF INSPECTIONS OR EXAMINATIONS PRIOR TO CONSTRUCTION COMMENCEMENT.	 REPAIR MATERIAL SHALL BE APPROPRIATE FOR THE APPLICATION AS RECOMMENDED BY THE MANUFACTURER. PRODUCTS SHALL BE BY SIKA CORPORATION, OR APPROVED EQUAL. 			DRAWN BY: B. WARNER, PE DESIGNED BY: B. WARNER, PE
		 PERFORM SOIL COMPACTION TESTING, AT LEAST ONE TEST EVERY 100 FEET OF WALL FOOTING. PROVIDE A MINIMUM OF 4 SOIL COMPACTION TESTS AT EVERY BUILDING. 	7. THE CONTRACTOR SHALL SUBMIT TO THE OWNERS REPRESENTATIVE FOR REVIEW PRIOR TO THE DEVELOPMENT OF SLAB REINFORCING SHOP DRAWINGS, A PROPOSED SLAB CONSTRUCTION JOINT LAYOUT PLAN, ALONG WITH PROPOSED METHODS FOR CONTROLLING SHRINKAGE CRACKING IN THE SLARS, CONTROLLIONT SPACING NOT TO			CHECKED BY: K. STEGMEIER II, PE CONTRACTOR SHALL VERIFY ALL CONDITIONS ON JOB SITE & NOTIFY THE OWNER OF ANY
			PROPOSED METHODS FOR CONTROLLING SHRINKAGE CRACKING IN THE SLABS. CONTROL JOINT SPACING NOT TO EXCEED 20 FEET IN ANY DIRECTION, WITH CONTROL JOINT LAYOUT CREATING RECTANGULAR SHAPED SLAB SECTIONS. CONTROL JOINT SLAB RECTANGULAR SHAPE CONFIGURATION NOT TO EXCEED A LENGTH TO WIDTH RATIO OF 1.5 IN ANY DIRECTION.			VARIATIONS FROM DIMENSIONS SHOWN ON THESE DRAWINGS BEFORE PROCEEDING WITH ANY CONSTRUCTION
	INDER					CTDUCTUDAL CENTER !
$_{A} $	REVIEW 11/01/2023				$ _{A} $	STRUCTURAL GENERAL NOTES
	GS S					
	Planning & Development D.O.A.					HANGAR HANGAR J K
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2

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