PROFESSIONAL SERVICE INDUSTRIES, INC. REPORT #0046249 DATED FEBRUARY 25, 2011 AND THE ENGINEER OF RECORD FOR INSPECTION OF THE PARTICULAR TYPE OF FACH COMPONENT HAS BEEN DESIGNED TO RESIST THE MOST CRITICAL EFFECT CONSTRUCTION OR OPERATIONS REQUIRING SPECIAL INSPECTIONS RESULTING FROM ALL APPLICABLE LOAD COMBINATIONS REQUIRED BY THE CODE DESIGN SOIL BEARING VALUE = <u>2500</u> PSF FOR: DL + LL 1.b. THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED FOR CONFORMANCE WITH THE APPROVED DESIGN DRAWING GRAVITY LOADS: (THESE ARE THE GENERAL DESIGN LOADS. THEY MAY BE DIFFERENT IN DESIGN SOIL BEARING VALUE = 33333 PSF FOR: DL + LL + (EQ OR W) LOCALIZED AREAS.) EXISTING FOOTING OR FOUNDATIONS WHICH MAY BE AFFECTED BY ANY EXCAVATION 1.c. COPIES OF TEST RESULTS AND FINAL REPORTS SHA 4.A. DEAD LOADS SHALL BE UNDERPINNED ADEQUATELY OR OTHERWISE PROTECTED AGAINST ENGINEER IN ADDITION TO OTHER NORMAL DISTRIBUT SETTLEMENT AND SHALL BE PROTECTED AGAINST LATERAL MOVEMENT. ROOF DEAD LOAD = 17 PSF THE TEST OR INSPECTION NEW ENTRY ROOF DEAD LOAD FILLS USED TO SUPPORT THE FOUNDATIONS OF ANY BUILDING OR STRUCTURE = N/A1.d. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMM SHALL BE PLACED IN ACCORDANCE WITH ACCEPTED ENGINEERING PRACTICE. A SOIL CANOPY ROOF DEAD LOAD CONTRACTOR FOR CORRECTION. THEN IF UNCORREC = N/A RECORD AND TO THE BUILDING OFFICIAL. INVESTIGATION REPORT. AND A REPORT OF SATISFACTORY PLACEMENT OF FILL BOTH WOOD STUD WALL = N/A 1.e. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL SI ACCEPTABLE TO THE BUILDING OFFICIAL AND THE ENGINEER OF RECORD SHALL BE = 84 PSF CMU WALL SUBMITTED. A SOILS REPORT PROVIDES THE BUILDING DESIGN ENGINEER WITH SITE WHETHER THE WORK REQUIRING SPECIAL INSPECTI 4.B. LIVE LOADS: PREPARATION AND FOUNDATION DESIGN RECOMMENDATIONS IF THE BUILDING OWNER INSPECTOR'S KNOWLEDGE, IN CONFORMANCE WITH = 20 PSF OR TENANT AUTHORIZING THE CURRENT CONSTRUCTION DOES NOT PROVIDE A SOUL ROOF LIVE LOAD SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP REPORT TO THE ENGINEER OF RECORD. THE OWNER OR TENANT AUTHORIZING THE ROOF POPUP/MANSARD LIVE LOAD = N/AALL TEST AND INSPECTIONS SHALL BE PERFORMED BY AN CURRENT CONSTRUCTION BY PROCEEDING WITH CONSTRUCTION. IS PROCEEDING AT FLOOR OFFICE INSPECTION AGENCY EMPLOYED BY THE OWNER OR ARCHIT = N/A THEIR OWN RISK AND THIS ENGINEER ASSUMES NO RESPONSIBILITY FOR THE CONTRACTOR PER CBC SECTION 109, APPENDIX GAP CHAF POSSIBLE MOVEMENT OF THE SOILS SUPPORTING THE BUILDING FOUNDATION. PARTITION LOAD = N/A ENGINEER OF RECORD DOES NOT CONSTITUTE A SPECIAL FLOOR EXTERIOR = N/AFOUNDATIONS SUPPORTING WOOD SHALL EXTEND AT LEAST 8" ABOVE THE ADJACENT THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING FLOOR LIGHT STORAGE = N/A FIRM WITH A SCHEDULE TO FACILITATE THE PROPER COORD FLOOR HEAVY STORAGE VAPOR BARRIER SHOULD CONFORM WITH ASTM @ 775-85 STANDARD PRACTICE FOR = N/A PORTIONS OF WORK REQUIRING SPECIAL INSPECTION: SELECTION OF VAPOR RETARDER FOR THERMAL INSULATION. FLOOR RESIDENTIAL BASIC = N/A 4.A. SOIL AND FOUNDATION: BALCONIES/DECKS = N/A SITE PREPARATION SHOULD BE DONE ACCORDING TO THE SITE SOILS REPORT. a.) SOIL CONDITIONS, FILL PLACEMENT AND LOAD-BEAR STORAGE = N/A GENERAL SITE CLEARING SHOULD INCLUDE REMOVAL OF VEGETATION; EXISTING RÉQUIREMENTS PER IBC 1705.6 JTILITIES: STRUCTURES INCLUDING FOUNDATION: BASEMENT WALLS AND FLOORS EXISTING STOCKPILE SOIL; TREES AND ASSOCIATED ROOT SYSTEMS; RUBBLE; GROUND SNOW LOAD, Pg = 30 PSI VERIFICATION AND INSPECTION TASK RUBBISH; AND ANY LOOSE AND/OR SATURATED MATERIAL. SITE STRIPPING SHOULD SLOPED ROOF SNOW LOAD, Ps = 25.2 PSI EXTEND TO A MINIMUM DEPTH OF 2 TO 4 INCHES, OR UNTIL ALL ORGANICS IN VERIFY MATERIALS BELOW FOOTING ARE ADEQUAT WIND LOADS: EXCESS OF 3 PERCENT BY VOLUME ARE REMOVED. DEFPER STRIPPING MAY BE TO ACHIEVE THE DESIGN BEARING CAPACITY PRIOR TO PLACEMENT OF REBAR REQUIRED IN LOCALIZED AREAS. THESE MATERIALS WILL NOT BE SUITABLE FOR USE a) BASIC WIND SPEED (3-SECOND GUST), V = 110 mph AS ENGINEERED FILL. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER b) RISK CATEGORY II DEVELOP AND MAINTAIN SITE GRADES WHICH WILL RAPIDLY DRAIN SURFACE AND EPTH AND HAVE REACHED PROPER MATERIAL ROOF RUNOFF AWAY FROM FOUNDATIONS AND FLOOR SLABS - BOTH DURING AND c) EXPOSURE C . PERFORM CLASSIFICATION AND TESTING OF AFTER CONSTRUCTION. ADJACENT OF AT LEAST 5' AWAY FROM STRUCTURES TO SEISMIC LOAD: PRECLUDE POUNDING OF WATER ADJACENT TO FOUNDATIONS a) IMPORTANCE FACTOR I = 1.00 (RISK CATEGORY II) VERIFY USE OF PROPER MATERIALS, DENSITIES AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SHORING NECESSARY TO THICKNESSES DURING PLACEMENT AND b) SPECTRAL RESPONSE ACCELERATION, Ss = 0.118 COMPACTION OF COMPACTED FILL SUPPORT CUT AND / OR FILL BANKS DURING EXCAVATION, AND FOR FORMING AND S1 = 0.056PLACEMENT OF CONCRETE. GENERAL CONTRACTOR AND CONCRETE SUB-CONTRACTOR c) SITE CLASS SHALL REVIEW AND FAMILIARIZE THEMSELVES WITH THE SOILS REPORT. 1. SUBGRADE AND VERIFY SITE HAS BEEN PRÉPARED d) SPECTRAL RESPONSE COEFFICIENTS, Sds = 0.126 VERIFY BUILDING ORIENTATION & PLACEMENT ON THE SITE WITH THE APPROVED PROJECT SITE PLAN. THE PROJECT SITE PLAN SUPERSEDES NORTH ARROW SHOWN Sd1 = 0.090b.) INSTALLATION AND TESTING OF PILE FOUNDATIONS ON THE STRUCTURAL PLANS. PER IBC 1705.7 . . A LETTER FROM SOIL ENGINEER SHALL BE PROVIDED CONFIRMING THAT THE f) SEISMIC-FORCE-RESISTING SYSTEM, R Ω O Cd FOUNDATIONS PLAN. GRADING PLAN. AND SPECIFICATIONS HAVE BEEN REVIEWED AND INTERMEDIATE REINFORCED MASONRY WALLS 3.5 2.5 2.25 VERIFICATION AND INSPECTION TASK THAT IT HAS BEEN DETERMINED THAT THE RECOMMENDATIONS IN THE SOILS REPORT. ARE PROPERLY INCORPORATION INTO THE PLANS. g) SEISMIC RESPONSE COEFFICIENT, Cs = SEE CALCS COMPLY WITH THE REQUIREMENTS . CONTINUOUS AND PAD FOOTINGS SHOULD HAVE A MINIMUM EMBEDMENT DEPTH AS FROST LINE DEPTH = 3'-6" SPECIFIED IN THE FOOTING SCHEDULE ("T") OR NOTED IN THE PLANS BELOW . VERIFY DETERMINE CAPACITIES OF TEST PILES AND ROUGH PAD GRADE OR ADJACENT EXTERIOR GRADE, WHICHEVER IS LOWER. THE BY ISSUING A BUILDING PERMIT, THE GOVERNING BUILDING DEPARTMENT FOR THIS ENGINEER MUST BE NOTIFIED IF THERE IS A DISCREPANCY BETWEEN THE SOILS PROJECT IS APPROVING ALL LOADS AND LOAD FACTORS LISTED IN ITEMS 4B, 4C, 5, REPORT. REQUIREMENTS AND THE STRUCTURAL PLANS COMPLETE AND ACCURATE RECORDS FOR EACH PILE. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE CIVIL & ARCHITECTURAL N/A INDICATES THAT THIS ITEM IS NOT APPLICABLE TO THIS PROJECT. VERIEY PLACEMENT LOCATIONS AND PLUMBNESS PLANS, WITH RESPECT TO GRADE, WITH THE FOUNDATION PLAN, THIS INCLUDES, BI CONFIRM TYPE AND SIZE OF HAMMER, RECORD NUMBER OF BLOWS PER FOOT OF PENETRATION, IS NOT LIMITED TO, COORDINATING ALL REQUIRED STEP FOOTING LOCATIONS BASED ON THE GUIDE LINES IN THE STEPPED CONCRETE FOOTING DETAIL BETWEEN THE DESIGN CRITERIA DETERMINE REQUIRED PENETRATIONS TO ACHIEVE DESIGN CAPACITY, RECORD TIP AND BUTT ELEVATIONS AND DOCUMENT ANY PILE DAMAGE. REQUIRED FINAL GRADING / CIVIL PLANS & ARCHITECTURAL PLANS AND FOOTING/ FOUNDATION LAYOUT. ANY DISCREPANCIES MUST BE BROUGHT TO THE ENGINEERS ATTENTION BEFORE ANY CONSTRUCTION BEGINS. c.) INSTALLATION AND TESTING OF PIER FOUNDATIONS THE CONTRACTOR SHALL BE RESPONSIBLE FOR JOB SITE SAFETY. THE FOLLOWING . THE EXTERIOR FLATWORK SHOULD BE POURED SEPARATELY IN ORDER TO ACT PER IBC 1705.8 . REQUIREMENTS ARE NOT INTENDED TO BE A COMPLETE LIST, BUT ARE ADDITIONAL INDEPENDENTLY OF THE WALLS AND FOUNDATION SYSTEM. SEE CIVIL / ARCH. SAFFTY REQUIREMENTS FOR THE CONTRACTOR, OBSERVATION VISITS TO THE SITE BY PLANS FOR EXTERIOR FLATWORK INFO. VERIFICATION AND INSPECTION TASK THE STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE FOLLOWING 4. THE GEOTECHINICAL ENGINEER SHALL SUBMIT A WRITTEN STATEMENT WITH A COPY DIRECTLY TO THE STRUCTURAL ENGINEER AT THE COMPLETION OF THE PART OF THE STRUCTURE SHOWN IN THESE DRAWINGS IS STRUCTURALLY SOUND ONLY IN ITS THE PROJECT SUMMARIZING THE TEST RESULTS / ITEMS MONITORED WITH THE COMPLETE AND ACCURATE RECORDS FOR EACH PIER. COMPLETE FORM,. THE DESIGN ADEQUACY AND SAFETY OR ERECTION BRACING, SPECIFIC REQUIREMENTS. SHORING TEMPORARY SUPPORTS. ETC. IS THE SOLE RESPONSIBILITY OF THE VERIFY PLACEMENT LOCATIONS AND PLUMBNESS. CONTRACTOR AND HAS NOT BEEN CONSIDERED BY THE STRUCTURAL ENGINEER. TH CONFIRM PIER DIAMETERS, BELL DIAMETER (IF CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE PRIOR TO THI APPLICABLE), LENGTHS, EMBEDMENT INTO BEDROCK OTNOTE: APPLICATION OF ALL WALLS AND ROOF & FLOOR SHEATHING, HE SHALL PROVIDE TH (IF APPLICABLE) AND ADEQUATE END BEARING NECESSARY BRACING TO PROVIDE STABILITY PRIOR TO THE APPLICATION OF THE 1. IF NO SOILS REPORT HAS BEEN PROVIDED BY THE OWNER OR TENANT AFOREMENTIONED MATERIALS. UTHORIZING THE CURRENT CONSTRUCTION AS INDICATED BY NOTE 1, THE OWNER OR TENANT AUTHORIZING THE CURRENT CONSTRUCTION BY PROCEEDING 4.B. STEEL CONSTRUCTION PER IBC 1705.2 AN FRECTION PLAN IS REQUIRED FOR MOST CONSTRUCTION PHASES. CONTRACTOR WITH CONSTRUCTION, IS PROCEEDING AT THEIR OWN RISK AND THIS ENGINEER SHALL DETERMINE ALL CONSTRUCTION PHASES WHICH REQUIRE ERECTION PLANS ASSUMES NO RESPONSIBILITY FOR THE POSSIBLE MOVEMENT OF THE SOILS CONTINUOUS PERIODIC ACCORDING TO ALL APPLICABLE SAFETY REGULATIONS, A CERTIFIED COPY OF SUCH INSPECTION SUPPORTING THE BUILDING FOLINDATION IF NO SOILS REPORT HAS BEEN ERECTION PLANS SHALL REMAIN ON THE CONSTRUCTION SITE AT ALL TIMES. PROVIDED IGNORE THE SOILS REPORT REFERENCE IN NOTES 3,6,8,10 & 1 MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS TEMPORARY LOADING DURING CONSTRUCTION SHALL NOT OVERLOAD DESIGN VALUES CONTRACTOR IS RESPONSIBLE FOR NOTIFYING ALL TRADES OF SUCH DESIGN VALUES. AND WASHERS: THE USE OF ATV TYPE MATERIAL HANDLING EQUIPMENT IS PROHIBITED FROM USE O WOOD ROOFS AND ELEVATED FLOORS. THE CONTRACTOR SHALL PROVIDE ATTACHED VISIBLE PLATES INDICATING THE DESIGN THESE ADDITIONAL NOTES ARE SUPPLEMENTAL TO THE "GENERAL NOTES" INDICATED LOADS IN ALL SPACES AS REQUIRED BY APPLICABLE SAFETY REGULATIONS. THE JPANT OF THE BUILDING SHALL BE RESPONSIBLE FOR KEEPING THE ACTUAL LOAD AND THE PROJECT SPECIFICATIONS IF APPLICABLE, REFER TO PROJECT BELOW THE ALLOWABLE LIMITS. SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS IF APPLICABLE. b. MATERIAL MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED. CONTRACTOR SHALL DETERMINE IF A CALOSHA PERMIT IS REQUIRED, IF SO, IT SHALL STRUCTURAL DRAWINGS ARE INTENDED TO BE USED WITH ARCHITECTURAL, PLUMBING, BE THE CONTRACTORS RESPONSIBILITY TO OBTAIN SUCH PERMIT. ELECTRICAL, CIVIL AND MECHANICAL DRAWINGS. THE CONTRACTOR IS RESPONSIBLE INSPECTION OF HIGH-STRENGTH BOLTING: FOR COORDINATING SUCH REQUIREMENTS INTO THEIR SHOP DRAWINGS AND WORK. THE LACK OF A HIGH GUARDRAIL AT BUILDING PARAPETS FLOOR OPENING & ROOF OPENINGS DOES NOT MEET CURRENT LABOR CODE FOR AN OCCUPIED SPACE, THIS NO OPENING SHALL BE MADE IN ANY STRUCTURAL MEMBER WITHOUT THE WRITTEN FNGINFER RECOMMENDS THE USE OF GUARDRAILS AT STATED LOCATIONS. IF APPROVAL OF THE ENGINEER OF RECORD. X AISC 360, GUARDRAILS ARE NOT USED THE OWNERS SHALL ACCEPT FULL RESPONSIBILITY. IN NO CHANGE IN SIZE OR DIMENSION OF STRUCTURAL MEMBERS SHALL BE MADE ADDITION, THE CONTRACTOR SHALL PROVIDE CLEARLY LEGIBLE SIGNS AT THESE b. SLIP — CRITICAL CONNECTIONS. WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER OF RECORD. X AISC 360, LOCATIONS STATING "CAUTION: NO GUARDRAIL". OPENINGS 1'-4" AND LESS ON A SIDE ARE GENERALLY NOT SHOWN ON THE ALL TEMPORARY FLOOR AND ROOF OPENINGS LACKING GUARDRAILS SHALL BE STRUCTURAL DRAWINGS. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS ADEQUATELY COVERED AND DESIGNED TO RESIST CONSTRUCTION TRAFFIC LOADS. STRUCTURAL STEEL: CONTRACTOR SHALL VERIFY THAT ALL SKYLIGHTS ARE DESIGNED TO WITH STAND THE IDENTIFICATION MARKING TO THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOADS SPECIFIED IN THE APPLICABLE CODE LISTED UNDER "DESIGN CRITERIA". ONFORM TO AWS PECIFICATION IN THE LOAD IMPOSED LIPON STRUCTURAL FRAMING CONSTRUCTION LOADS SHALL NOT ---- ASTM A6 O EXCEED THE DESIGN CAPACITY OF THE FRAMING AT THE TIME THE LOADS ARE . IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING APPROVED CONSTRUCTION UTILITIES WHETHER SHOWN HEREON OR NOT, AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR ALL EXPENSE OF REPAIR OR REPLACEMENT IN THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. THE CONJUNCTION WITH THE EXECUTION OF THIS WORK. ----- ASTM A6 0 CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL TEMPORARY BRACING AND / MILL TEST REPORTS MATERIAL USED IN THIS DESIGN MAY BE HAZARDOUS TO ONES HEALTH. THE OR SUPPORT THAT MAY BE REQUIRED AS THE RESULT OF THE CONTRACTORS . MATERIAL VERIFICATION OF WELD CONTRACTOR AND OWNER SHALL ACCEPT ALL RESPONSIBILITY AND SHALL POST SUCH CONSTRUCTION METHODS AND / OR SEQUENCE. WARNING DURING CONSTRUCTION. CONTRACTOR'S CONSTRUCTION AND / OR ERECTION SEQUENCES SHALL RECOGNIZE THE CONTRACTOR, DURING CONSTRUCTION, AND THE OWNER, DURING OCCUPANCY. AND CONSIDER THE EFFECTS OF THERMAL & MOISTURE CHANGES THAT WILL RESULT SHALL ASSUME ALL RESPONSIBILITY FOR PROPER ROOF MAINTENANCE TO INSURE IN MOVEMENTS OF STRUCTURAL ELEMENTS DURING THE CONSTRUCTION PERIOD. SPECICIFCATION IN THE PROPER ROOF DRAINAGE. THE CONTRACTOR SHALL INFORM THE ENGINEER OF RECORD IN WRITING OF ANY THE CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION INCLUDING BUILDING DEVIATION FROM THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOT BE ERECTION SAFETY. THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING ALL ERECTION RELIEVED OF THE RESPONSIBILITY OF SUCH DEVIATION BY THE ENGINEER OF LAWS AND GUIDELINES. IF THE CONTRACTOR FEELS THAT THE ERECTION OF THE RECORD, REVIEW OF SHOP DRAWINGS, PRODUCT DATA, ETC., UNLESS THE STRUCTURE REPRESENTED IN THESE PLANS WILL NOT MEET THOSE LAWS & CONTRACTOR HAS SPECIFICALLY INFORMED THE ENGINEER OF RECORD OF SUCH GUIDELINES. THE CONTRACTOR MUST NOTIFY THE ENGINEER BEFORE CONSTRUCTION INSPECTION OF WELDING: DEVIATION AT THE TIME OF SUBMISSION, AND THE ENGINEER OF RECORD HAS GIVEN AND FABRICATION BEGINS. WRITTEN APPROVAL TO THE SPECIFIC DEVIATION. ADDITIONAL SAFETY NOTES a. STRUCTURAL STEEL: THE CONTRACTOR MUST ENSURE THAT MANUFACTURED (ENGINEERED BY OTHERS) ROOF & FLOOR FRAMING IS DESIGNED TO RESIST UPLIFT LOADS DURING & AFTÉR CONSTRUCTION. AWS D1.1 PENETRATION GROOVE XISTING CONSTRUCTION NOTES: SHOP DRAWINGS ARE REQUIRED FOR THE FOLLOWING ITEMS. SUBMIT AT LEAST (1 . WORK SHOWN IS NEW UNLESS INDICATED AS EXISTING. 2. MULTIPASS FILLET WELDS. AWS D1.1 ELECTRONIC SET (FULL SIZE PDF) FOR ENGINEERS RECORDS. (1) ELECTRONIC SET . THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING JOB CONDITIONS, REVIEW ALL (FULL SIZE PDF) OF CALCULATIONS (IF APPLICABLE) FOR REVIEW AND APPROVAL DRAWINGS AND VERIFY DIMENSIONS, ELEVATION, AND MEMBER SIZES PRIOR TO PRIOR TO FABRICATION. THE ELECTRONIC SETS SHALL BE LEGIBLE FOR THE REVIEW, AWS D1.1 CONSTRUCTION OR MATERIAL PURCHASE. THE CONTRACTOR SHALL NOTIFY THE IF ELECTRONIC SET IS NOT LEGIBLE IT MAY DELAY THE REVIEW WITHIN THE ALLOTTED ENGINEER OF RECORD IN WRITING OF ALL DISCREPANCIES AND EXCEPTIONS BEFORE TIME BELOW. PROCEEDING WITH THE WORK. 1.a. CONCRETE REINFORCING BARS X AWS D1.1 WELDS < 5/16" 1.b. CONCRETE MIX DESIGN . THE REMOVAL, CUTTING DRILLING, ETC. OF EXISTING CONSTRUCTION SHALL BE 5. FLOOR AND ROOF DECK WELDS 1.c. STRUCTURAL STEEL PERFORMED WITH GREAT CARE IN ORDER NOT TO JEOPARDIZE THE STRUCTURA X AWS D1.3 1.d. GROUT MIX DESIGN INTEGRITY OF THE BUILDING STRUCTURAL SYSTEM. IF STRUCTURAL MEMBERS OR 1.e. MASONRY REINFORCING BARS MECHANICAL, ELECTRICAL, OR ARCHITECTURAL FEATURES NOT INDICATED FOR b. REINFORCING STEEL: REMOVAL INTERFERE WITH THE NEW WORK, THE ENGINEER OF RECORD SHALL BE 1.a. ROOF & FLOOR TRUSSES - DEFERRED SUBMITTAL IMMEDIATELY NOTIFIED AND PRIOR WRITTEN APPROVAL SHALL BE OBTAINED BEFORE REMOVAL OR MODIFICATION OF MEMBERS. . THE CONTRACTOR SHALL PROMPTLY REPAIR DAMAGE TO EXISTING FRAMING CAUSED THAN ASTM A706. DURING CONSTRUCTION WITH SIMILAR MATERIALS AND WORKMANSHIP. CONTACT THE ENGINEER OF RECORD TO VERIFY THE PROPOSED REPAIR SOLUTION. FEL - RESISTING FLEXURA . THE CONTRACTOR MUST NOTIFY THE ENGINEER PRIOR TO BEGINNING CONSTRUCTION ALLOW TEN (10) WORKING DAYS FOR SHOP DRAWINGS REVIEW COMMENCING THE AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL NEXT WORKING DAY AFTER RECEIPT. PLEASE PLAN YOUR SCHEDULE ACCORDINGLY OR FABRICATION REGARDING ANY EXISTING MECHANICAL UNITS OR OTHER HEAVY MOMENT FRAMES, AND BOUNDARY ELEMENTS OF SPECIAL REINFORCED NO PART OF THE CONTRACT DOCUMENTS ARE TO BE REPRODUCED AS PART OF THE ITEMS (200+ LBS) ON EXISTING ROOF/FLOOR FRAMING NOT SHOWN IN THESE SHOP DRAWINGS. SHOP DRAWINGS CONTAINING DETAILS, SECTIONS OR PLANS PHOTO PLANS BUT LOCATED ON STRUCTURAL MEMBERS THAT ARE BEING MODIFIED OR

COPIED FROM THE CONTRACT DOCUMENTS WILL BE REJECTED

SHOP DRAWINGS

THE MEANS, METHODS, TECHNIQUES, SEQUENCES. AND OPERATIONS OF

BEFORE SUBMITTING A SHOP DRAWING OR ANY RELATED MATERIAL TO THIS ENGINEER.

THE CONTRACTOR SHALL; REVIEW EACH SUCH SUBMISSION FOR CONFORMANCE WITH

CONSTRUCTION, AND SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL THERETO, AI

OF WHICH ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR; AND APPROVE EACH

SUCH SUBMISSION BEFORE SUBMITTING IT. THE CONTRACTOR IS FULLY RESPONSIBLE

ALLEVIATE THE CONTRACTORS RESPONSIBILITY TO REVIEW THE SAME SHOP DRAWING:

COMPRISES AN INTENTIONAL VARIATION LINEESS CONTRACTOR ADVISES THIS ENGINEER

THIS ENGINEER SHALL ASSUME THAT NO SHOP DRAWING OR RELATED SUBMITTAL

OTHERWISE IN WRITING WHICH IS THEN ACKNOWLEDGED BY THIS ENGINEER IN

FOR ANY CHANGES OR DELAYS CAUSED BY PREMATURELY SUBMITTING SHOP

DRAWINGS. THIS ENGINEERS SHOP DRAWINGS REVIEW AND STAMP DOES NOT

3. SHEAR REINFORCEMENT

4. OTHER REINFORCEMENT

b. MEMBER LOCATIONS.

DETAILS AT EACH CONNECTION.

. INSPECTION OF STEEL FRAME JOINT DETAILS FOR

THIS BUILDING HAS BEEN DESIGNED TO SUSTAIN, WITHIN THE LIMITATIONS SPECIFIED IN ert

THE 2015 INTERNATIONAL BUIDLING CODE (IBC), ALL DEAD LOADS AND OTHER

ALL ALLOWABLE STRESSES AND SOIL-BEARING VALUES SPECIFIED IN THE CODE FOR

WORKING STRESS DESIGN HAVE BEEN INCREASED ONE THIRD WHEN CONSIDERING WIND

OR EARTHQUAKE FORCES EITHER ACTING ALONE OR WHEN COMBINED WITH VERTICAL

APPLICABLE LOADS SPECIFIED IN CHAPTER 16 OR ELSEWHERE IN THE CODE.

LOADS. NO INCREASE HAS BEEN TAKEN FOR VERTICAL LOADS ACTING ALONE.

THE SOILS REPORT. IN ITS ENTIRELY SHALL BE INCLUDED AS PART OF THE

CONTRACT DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR READING AND

REPORTS RECOMMENDATIONS MUST BE FOLLOWED. FOR RECOMMENDED SOIL

GEOLOGICAL REPORT B

RECEIVING NEW LOADS FROM THESE PLANS.

6. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE MEANS AND METHODS OF ALL

BRACING AND PROTECTION AS NECESSARY FOR SAFETY, STABILITY AND PROTECTION

BRACING SHALL BE ADEQUATE TO RESIST ALL APPLIED LOADS INCLUDING DEAD

AND TO PROVIDE FOR RESISTANCE TO WIND AND SEISMIC FORCES UNTIL ANY

REQUIRED MODIFICATIONS TO THE STRUCTURE ARE COMPLETED.

MISCELLANEOUS

OF ALL EXISTING ELEMENTS AND STRUCTURE TO REMAIN. TEMPORARY SHORING AND

LOAD, LIVE LOADS, SNOW LOADS AND CONSTRUCTION LOADS, TO PROVIDE STABILITY,

GN008

DEMOLITION WORK AND FOR PROVIDING ALL NECESSARY TEMPORARY SHORING.

DEMOLITION SHORING NOTES::

BEARING PRESSURE, FOUNDATION MATERIAL AND SITE GRADING SEE SOILS AND

UNDERSTANDING ALL OF THE SOILS REPORTS RECOMMENDATIONS. ALL OF THE SOILS

b. THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED FOR CONFORMANCE WITH THE APPROVED DESIGN DRAWINGS AND SPECIFICATIONS IF APPLICABLE.									INSPECTION OF REINFORCING STEEL WELDING IN ACCORDANCE WITH TABLE 1705.2, ITEM 5B
c. COPIES OF TEST RESULTS AND FINAL REPORTS SHALL BE FURNISHED TO THIS ENGINEER IN ADDITION TO OTHER NORMAL DISTRIBUTIONS WITHIN ONE WEEK OF THE TEST OR INSPECTION. d. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. THEN IF UNCORRECTED TO THE ENGINEER OF									3. INSPECTION BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT OF CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED.
CONTRACTOR FOR C RECORD AND TO THE e. THE SPECIAL INSPE	E BUILDING	OFFICIAL.					OF		4. VERIFY USE OF REQUIRED DESIGN MIX.
WHETHER THE WORK INSPECTOR'S KNOWL SPECIFICATIONS AND TEST AND INSPECTIONS PECTION AGENCY EMPLO NTRACTOR PER CBC SEC	K REQUIRING LEDGE, IN CO THE APPLIC S SHALL BE LYED BY THE	SPECIAL ONFORMAN CABLE WO PERFORM OWNER	INSPEC CE WIT RKMANS ED BY OR ARC	TION WAS TO THE APPROVICE OF THE APPROVISION AN INDEPENDENT OF THE AND NOTICE OF THE	THE BI ED PL S OF NT TES DT THE	EST (ANS , THE STING	AND IBC AND		5. AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.
GINEER OF RECORD DOE E CONTRACTOR SHALL B M WITH A SCHEDULE TO	S NOT CONS E RESPONSI FACILITATE	STITUTE A BLE FOR THE PROF	SPECIA PROVIDI PER CO	L INSPECTION. NG THE TEST /	AND IN	ISPEC			6. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.
RTIONS OF WORK REQUI	ON:			DEADINO.	YES		N/A		7. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.
a.) SOIL CONDITIONS, REQUIREMENTS PER IE	BC 1705.6		NUOUS	PERIODICALLY					8. INSPECTION OF PRE-STRESSED CONCRETE:
ERIFICATION AND INSPEC		LIS	G TASK STED	DURING TASK LISTED	_		_		a. APPLICATION OF PRESTRESSED FORCES.
ACHIEVE THE DESIGN BEARING PLACEMENT OF REBAR IFY EXCAVATIONS ARE EXTEND				X					b. GROUTING OF BONDED PRESTRESSED TENDONS IN THE SEISMIC FORCE
TH AND HAVE REACHED PROP	ER MATERIAL	_		X					RESISTING SYSTEM 9. ERECTION OF PRECAST
IPACTED FILL MATERIALS. IFY USE OF PROPER MATERIAL	_S, DENSITIES #			X					CONCRETE MEMBERS. 10. VERIFICATION ON IN—SITU
THICKNESSES DURING PLACEMENT AND IPACTION OF COMPACTED FILL. OR TO PLACEMENT OF COMPACTED FILL, OBERVE GRADE AND VERIFY SITE HAS BEEN PREPARED PERLY			X 	X	•				CONCRETE STRENGTH PRIOR TO STRESSING OF TENDONS IN POST TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.
b.) INSTALLATION AND PER IBC 1705.7				NS 	YES		N/A ■		11. INSPECT FORMWORK FOR SHAPE, LOCATION AND
ERIFICATION AND INSPEC	CTION TASK	DURIN	NUOUS G TASK STED	PERIODICALLY DURING TASK LISTED					DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.
IFY PILE MATERIALS, SIZES AN IPLY WITH THE REQUIREMENTS			Х						4.D. MASONRY CONSTRUCT
IFY DETERMINE CAPACITIES OF DUCT ADDITIONAL LOAD TESTS			X						VEDICIOATION AND
SERVE DRIVING OPERATIONS AN IPLETE AND ACCURATE RECOR	DS FOR EACH	PILE.	X						VERIFICATION AND INSPECTION
IFY PLACEMENT LOCATIONS AN IRM TYPE AND SIZE OF HAMM ER OF BLOWS PER FOOT OF RMINE REQUIRED PENETRATION	ER, RECORD PENETRATION,		X				_		VERIFY COMPLIANCE WITH APPROVED SUBMITTALS
N CAPACITY, RECORD TIP AND DOCUMENT ANY PILE DAMAGE.		DNS					-		2. AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE
c.) INSTALLATION AND PER IBC 1705.8				NS 	YES		N/A ■		b. PROPORTIONS OF SITE PREPARED MORTAR
ERIFICATION AND INSPEC	CTION TASK	DURIN	NUOUS G TASK STED	PERIODICALLY DURING TASK LISTED					b. CONSTRUCTION OF MORTAR JOINTS
ERVE DRILLING OPERATIONS A IPLETE AND ACCURATE RECOR		PIER.	X						c. GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES
IFY PLACEMENT LOCATIONS AN FIRM PIER DIAMETERS, BELL I LICABLE), LENGTHS, EMBEDME	DIAMETER (IF	СК	X				_		d. LOCATION OF REINFORCEMEN' CONNECTORS, PRESTRESSING TENDONS AND ANCHORAGES
APPLICABLE) AND ADEQUATE E ATA CAPACITY.	IND BEARING				YES		_ N/A		e. PRESTRESSING TECHNIQUE
B. STEEL CONSTRUCTION VERIFICATION AND				EFERENCE					3. PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:
INSPECTION ERIAL VERIFICATION OF	CONTINUOUS	PERIODIC	9	STANDARD					a. GROUT SPACE IS CLEAN
H-STRENGTH BOLTS, NUTS WASHERS: MATERIAL INDENTIFICATION TARKINGS TO CONFORM TO		V	APPLICA MATERIA	ABLE ASTM					b. GRADE, TYPE, AND SIZE OF REINFORCEMENT AND ANCHOF BOLTS, AND PRESTRESSING TENDONS AND ANCHORAGES
STM STANDARDS SPECIFIED N THE APPROVED CONSTRUCTION DOCUMENTS. MATERIAL MANUFACTURER'S JERTIFICATE OF COMPLIANCE		X		CATIONS; AISC ECTION A3.3			_		c. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND PRESTRESSING TENDONS AND
PEQUIRED. PECTION OF HIGH-STRENGTH							-		d. PROPORTIONS OF SITE - PREPARED GROUT AND
TING: BEARING — TYPE CONNECTIONS.		X	AISC 3	60, SECTION M2.5			_		PRESTRESSING GROUT FOR BONDED TENDONS e. CONSTRUCTION OF MORTAR
SLIP — CRITICAL CONNECTIONS.	X	Х	AISC 3	60, SECTION M2.5			_		JOINTS
ERIAL VERIFICATION OF JCTURAL STEEL:									4. VERIFY DURING CONSTRUCTION: a. SIZE AND LOCATION OF
DENTIFICATION MARKING TO CONFORM TO AWS PECIFICATION IN THE PPROVED CONSTRUCTION OCUMENTS.			ASTM A	.6 OR ASTM A568	YES	NO	N/A		b. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF
MANUFACTURES CERTIFIED MILL TEST REPORTS			ASTM A	.6 OR ASTM A568					MASONRY TO STRUCTURAL MEMBERS, FRAMES OR OTHER CONTSRUCTION
ERIAL VERIFICATION OF WELD ER MATERIALS:			I						c. WELDING OF REINFORCING BARS
NDENTIFICATION MARKING TO CONFORM TO AWS PECICIFCATION IN THE PROVED COINSTRUCTION OCUMENTS.			AISC 3	60, SECTION A3.5					d. PREPARATION, CONSTRUCTION AND PROTECTION OF MASONE DURING COLD WEATHER (TEMPERATURE BELOW 40'F) OR HOT WEATHER
MANUFACTURES CERTIFIED OF COMPLIANCE REQUIRED.									(TEMPERATURE ABOVE 90°F) e. APPLICATION AND MEASUREMENT OF
PECTION OF WELDING:									PRESTRESSING FORCE f. PLACEMENT OF GROUT AND
COMPLETE AND PARTIAL PENETRATION GROOVE	V		AWC D	1.4					PRESTRESSING GROUT FOR BONDED TENDONS IS IN COMPLIANCE
WELDS. MULTIPASS FILLET WELDS.	X		AWS D				_		5. PREPARATION OF ANY REQUIRED GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS SHALL BE OBSERVED
SINGLE PASS FILLET WELDS > 5/16"	X		AWS D				-		4.E. WOOD CONSTRUCTION
SINGLE PASS FILLET WELDS ≤ 5/16"		Х	AWS D	1.1					a.) HIGH—LOAD DIAP ASCERTAIN WHETHER APPROVED BUILDING
FLOOR AND ROOF DECK WELDS		X	AWS D	1.3					MEMBERS AT ADJOIN LENGTH, THE NUMBE
REINFORCING STEEL:									FASTENERS IN EACH BUILDING PLANS. 4.F. STRUCTURAL WOOD P
VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A706.		X	AWS D1				•		a.) CONTINUOUS SP OPERATIONS OF ELE PERIODIC SPECIAL IN AND OTHER FASTENI SYSTEM, INCLUDING
STEEL—RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, AND BOUNDARY ELEMENTS OF SPECIAL REINFORCED CONCRETE SHEAR WALLS	X		AWS D				•	5.	BRACES, SHEAR PAN 4.G. EXPANSION/ADHESIVE (IF THEY ARE REQUIRED APPROVED FABRICATORS: (MU
AND SHEAR REINFORCEMENT. SHEAR REINFORCEMENT	X		AWS D						OFFICAL PER CBC 1704.2.5.2 STEEL, GLU-LAMS, PRECAST
OTHER REINFORCEMENT		X	AWS D	1.4			•	6.	STRUCTURAL OBSERVATION R WHEN REQUIRED BY THE BU OF RECORD (EOR) BRAD YOU
PECTION OF STEEL FRAME JOI PLIANCE WITH APPROVED CON					V	NIC.	N: /*		OBSERVATION AS DEFINED IN PLEASE PROVIDE 2 WEEKS N
DETAILS SUCH AS BRACING AND STIFFENING.					YES	NO	N/A ■		6.a. PLEASE REFER TO GE INFORMATION REGARDI
MEMBER LOCATIONS.							-		
PPLICATION OF JOINT SETAILS AT EACH SONNECTION.			\		□)TE	_ 			
SPECIA	L 11V5		/ I K	JN NC	' I E	_O			

THIS SECTION APPLIES TO THE STRUCTURAL PORTIONS OF THE PROJECT REQUIRING

DEMONSTRATE COMPETENCE. TO THE SATISFACTION OF THE BUILDING OFFICIAL

SPECIAL INSPECTION. THE SPECIAL INSPECTOR'S DUTIES ARE AS DESCRIBED IN

1.a. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL

2015 INTERNATIONAL BUILDING CODE (IBC)

IES AND RESPONSIBILITIES OF THE SPECIAL INSPECTOR:

4.C. CONCRETE CONSTRUCTION PER IBC 1705.3 VERIFICATION AND CONTINUOUS PERIODIC INSPECTION STANDARD . INSPECTION OF REINFORCING ACI 318: 3.5, 7.1-7.7 TENDONS, AND PLACEMENT. 2. INSPECTION OF REINFORCIN LDING IN ACCORDANCE LE 1705.2, ITEM 5B ACI 318: 3.5.2 IN CONCRETE PRIO RING PLACEMENT OF AVE BEEN INCREASED SE OF REQUIRED ME FRESH CONCRETE RFORM SLUMP AND ACI 318: 5.6, 5.8 N OF CONCRETE AND ACI 318: 5.9, 5.10 PPLICATION ACI 318: 5.11, 5.13 URE AND TECHNIQUES ON OF PRE-STRESSED TRESSED FORCES. RESSED TENDONS IN STING SYSTEM X ACI 318: CH. 16 MEMBERS. TION ON IN-SITU X ACI 318: 6.2 AND STRUCTURAL FORMWORK FOR X ACI 318: 6.1.1 NS OF THE CONCRETE SONRY CONSTRUCTION PER IBC 1705.3 FREQUENCY OF REFERENCE FOR CRITERIA FICATION AND NSPECTION ASCE 5 ASCE 6 TMS 402 TMS 602 CONTINUOUS PERIODIC SUBMITTALS IRY CONSTRUCTION ARE IN COMPLIANCE ED MORTAR RUCTION OF MORTAR SSING TENDONS AND ON OF REINFORCEMENT, RESSING TECHNIQUE ART. 3.6B FOLLOWING ARE IN SPACE IS CLEAN CEMENT AND ANCHOR X SEC. 6.1 IS AND ANCHORAGES X SEC. 6.1 ESSING TENDONS AND ED GROUT AND ESSING GROUT FOR URING CONSTRUCTION:

SEE MECHANICAL FLECTRICAL AND/OR ARCHITECTURAL DRAWINGS FOR EMBEDMENT O STRUCTURAL DRAWINGS. SEE PLUMBING & ARCHITECTURAL PLANS FOR REQUIRED SLAB WORK FOR FLOOR THE DESIGN. FABRICATION AND CONSTRUCTION SHALL COMPLY WITH ALL ACCEPTED LOCAL GOVERNING CODES OF THE PARTICULAR AREA UNDER CONSTRUCTION. THE DUTY OF THE ENGINEER TO CONDUCT CONSTRUCTION REVIEW OF THE CONTRACTOR'S PERFORMANCE, IF REQUIRED, IS NOT INTENDED TO INCLUDE REVIEW ANY SUPPORT SERVICES PERFORMED BY THE ENGINEER FIELD REPRESENTATIVES DURING CONSTRUCTION SHALL BE DISTINGUISHED FROM CONTINUOUS AND DETAILED. DRAWINGS AND SPECIFICATIONS. BUT THEY DO NOT GUARANTEE CONTRACTOR'S ALL WORK SHALL CONFORM TO THE LATEST APPLICABLE CONSTRUCTION SAFETY REQUIREMENTS OF O.S.H.A. AND ANY OTHER GOVERNMENTAL ENTITY HAVING THESE DRAWINGS SHALL BE CONSIDERED SUBSTANTIALLY COMPLETE. HOWEVER, IT IS ESTABLISHED CONSTRUCTION PRACTICES. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE WORK AND THE ALL MATERIAL AND WORK PERFORMED SHALL CONFORM WITH THE REQUIREMENTS O REFERENCE TO THE BUILDING CODE SHALL BE THE LATEST ADOPTED EDITION. THE CONTRACT DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR INCLUDING. BUT NOT LIMITED TO BRACING AND SHORING. OBSERVATION VISITS TO THE INCLUDE INSPECTIONS OF THE PROTECTIVE MEASURES OR THE CONSTRUCTION

ART. 3.3F URAL ELEMENTS SIZE AND LOCATION OF S, INCLUDING OTHER OF ANCHORAGE OF SEC. 1.2.2(e) S, FRAMES OR OTHER NG OF REINFORCING 11.3.3.4(b) RATION, CONSTRUCTION ROTECTION OF MASONR' RATURE BELOW 40°F)

TION OF ANY REQUIRED AND/OR PRISMS OD CONSTRUCTION PER IBC 1705.10.1 . . HIGH-LOAD DIAPHRAGM: INSPECT WOOD STRUCTURAL PANEL SHEATHING TO CERTAIN WHETHER IT IS THE GRADE AND THICKNESS SHOWN ON THE PROVED BUILDING PLANS AND VERIFY THE NOMINAL SIZE OF FRAMING MBERS AT ADJOINTING PANEL EDGES. THE NAIL OR STAPLE DIAMETER AND NGTH, THE NUMBER OF FASTENER LINES AND THAT THE SPACING BETWEEN STENERS IN EACH LINE AND AT EDGE MARGINS AGREES WITH THE APPROVEI JILDING PLANS.

ART. 3.6B

RUCTURAL WOOD PER IBC 1705.11.2 CONTINUOUS SPECIAL INSPECTION IS REQUIRED DURING FIELD GLUING ERATIONS OF ELEMENTS OF THE SEISMIC-FORCE-RESISTING SYSTEM. RIODIC SPECIAL INSPECTION IS REQUIRED FOR NAILING, BOLTING, ANCHORING D OTHER FASTENING OF COMPONENTS WITHIN THE SEISMIC-FORCE-RESISITNO STEM, INCLUDING WOOD SHEAR WALLS, WOOD DIAPHRAGMS, DRAG STRUTS, RACES, SHEAR PANELS AND HOLD-DOWNS

THEY ARE REQUIRED BY THESE PLANS OR REQUIRED DURING CONSTRUCTION) FABRICATORS: (MUST SUBMIT CERTIFICATE OF COMPLIANCE TO THE BUILDING ER CBC 1704.2.5.2 FOR ALL OFFSITE FABRICATION SUCH AS STRUCTURAL OBSERVATION REQUIRED JIRED BY THE BUILDING OFFICAL, THE OWNER SHALL EMPLOY THE ENGINEER (EOR) BRAD YOUNG AND ASSOCIATES, INC. TO PERFORM STRUCTURAL ON AS DEFINED IN IBC 1704.5, AND AT THE INSTANCES LISTED BELOW (A)

OSHA DEFINITIONS. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE CLASSIFICATION OF EACH "VERTICAL" MEMBER AND FOLLOWING THE REQUIRED OSHA ERECTION GUIDELINES. SEE NOTE 13 ON ADDITIONAL SAFETY NOTES FOR MORE INFO OVIDE 2 WEEKS NOTICE IN WRITING PRIOR TO NEEDING ALL INSPECTIONS. . DUTY OF COOPERATION: ISSUANCE OF THESE STRUCTURAL DOCUMENTS (DRAWING AND SPECIFICATIONS) CONTEMPLATES FURTHER COOPERATION AMONG ALL PARTIES ASE REFER TO GENERAL NOTE "STRUCTURAL OBSERVATION" FOR MORE INVOLVED. DESIGN AND CONSTRUCTION ARE COMPLEX, AND ALTHOUGH THE DESIGN RMATION REGARDING INSPECTION AT VARIOUS STAGES OF CONSTRUCTION. SERVICES HAVE BEEN PERFORMED WITH DUE CARE AND DILIGENCE, PERFECTION CANNOT BE GUARANTEED. COMMUNICATION IS NECESSARY AND ANY STRUCTURAL DISCREPANCY SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER WHOSE INTERPRETATION SHALL BE FINAL DISCREPANCIES NOT BROUGHT TO THE ENGINEER'S ATTENTION DURING THE BIDDING OF THE PROJECT WILL BE DEEMED TO HAVE BEEN

△ GENERAL NOTES

STANDARD NOTES AND DETAILS S1.1 STANDARD NOTES AND DETAILS ··· STANDARD NOTES AND DETAILS ··· STANDARD NOTES AND DETAILS S1.3 ····· S1.4 ···· ··· STANDARD NOTES AND DETAILS

PROJECT SHALL BE PROMPTLY REPORTED TO THE ENGINEER BEFORE CONSTRUCTION THIS DRAWING ARE OWNED BY AND THE PROPERTY OF BRAD YOUNG & ASSOCIATES, FOUNDATION S2.1 FOUNDATION PLAN ARRANGEMENTS OR PLANS SHALL BE USED BY OR DISCLOSED TO ANY PERSON. FIR OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION ROOF OF BYA, FILING THESE DRAWINGS WITH ANY PUBLIC AGENCY IS NOT PUBLICATION OF

S3.1 ROOF FRAMING PLAN FOUNDATION DETAILS S5.1 FOUNDATION DETAILS

DETAILS AND DIMENSIONS OF CONSTRUCTION SHALL BE VERIFIED AT THE SITE BY TI

CONTRACTOR AND ANY DISCREPANCY BETWEEN THE PLANS AND THE INTENT OF THE

ALL IDEAS, DESIGNS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY

INC. (BYA). AND WERE CREATED. EVOLVED AND DEVELOPED FOR USE ON AND IN

CONNECTION WITH THE SPECIFIED PROJECT ONLY, NONE OF SUCH IDEAS, DESIGNS,

SAME. REUSE, REPRODUCTION OR PUBLICATION BY ANY METHOD IN WHOLE OR IN

ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF LOCAL, COUNTY, STATE, OR

FEDERAL AGENCIES HAVING JURISDICTION. BRAD YOUNG & ASSOCIATES, INC. ASSUMES

RESPONSIBILITY FOR SUPERVISION OF CONSTRUCTION OR PROPER EXECUTION OF

THE WORK SHOWN ON THESE DRAWINGS. SAFETY METHODS AND TECHNIQUES ARE TH

SOLE RESPONSIBILITY OF THE CONTRACTOR. ANY DEVIATIONS OR UNAUTHORIZED

WRITING PRIOR TO CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO

NOTIFY THE ENGINEER OF THE PROGRESS OF THE PROJECT TO FACILITATE OUR

ONLY IF THESE PLANS OR ANY *OTHER AUTHORITY PHASES OF CONSTRUCTION

SPECIFICALLY REQUIRES THE ENGINEER OF RECORD TO MAKE A JOB INSPECTION.

HANGES TO THESE DRAWINGS ARE NOT THE RESPONSIBILITY OF BRAD YOUNG &

ASSOCIATES, INC. DEVIATIONS FROM THE ORIGINAL DRAWINGS MUST BE APPROVED II

ON-SITE VISITS TO ANSWER QUESTIONS AND VIEW THE PROGRESS AND QUALITY OF

THE CONTRACTOR SHALL NOTIFY OUR OFFICE 48 HOURS PRIOR TO THE FOLLOWING

4.B. AFTER THE ERECTION OF THE SUPERSTRUCTURE AND PRIOR TO CLOSING-IN

THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF ALL

NMENSIONS. GRADES. AND OTHER CONDITIONS. AND SHALL CORRELATE AT THE JOB

ITE ALL SUCH ITEMS. GENERAL CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO

THE ENGINEER FOR CLARIFICATION AND CORRECTION PRIOR TO BEGINNING ANY WORK.

ALL STRUCTURAL MEMBERS SHOWN ON THE PLANS ARE DESIGNED AS IN THEIR FINAL

LOCATION. BRAD YOUNG & ASSOCIATES, INC. HAS NOT PERFORMED CONSTRUCTION

FNGINFFRING (SHORING CALCULATIONS) OR ENGINEERING NECESSARY TO PLACE ANY

DETAILS AND NOTES ON TYPICAL SHEETS SHALL APPLY UNLESS SPECIFICALLY SHOWN

NATURE AS SHOWN FOR SIMILAR CONDITIONS. TYPICAL DETAILS ARE AT NO SCALE.

DO NOT SCALE STRUCTURAL DRAWINGS. IF DIMENSIONS OR DETAIL ARE NOT CLEAR.

SEE MECHANICAL, ELECTRICAL, AND/OR ARCHITECTURAL DRAWINGS FOR LOCATION AND SIZE OF PIPES, CONDUITS, FLOOR DRAINS, VENTS, DUCTS, DRAIN LEADERS AND

BOLTS, ANCHORS AND OTHER MISCELLANEOUS EMBEDDED ITEMS NOT SHOWN ON

OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES IN, ON, OR NEAR THE

INSPECTION SERVICES WHICH ARE FURNISHED BY OTHERS, THESE SUPPORT SERVICE

PERFORMED BY THE ENGINEER WHETHER PERFORMED PRIOR TO, DURING, OR AFTER

COMPLETION OF CONSTRUCTION ARE PERFORMED SOLELY FOR THE PURPOSE OF

ASSISTING IN QUALITY CONTROL AND IN ACHIEVING CONFORMANCE WITH CONTRACT

PERFORMANCE AND SHALL NOT BE CONSTRUED AS SUPERVISION OF CONSTRUCTION

HE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO PROVIDE ALL LABOR AND

COORDINATION OF ALL TRADES AND GOVERNING AGENCIES, AND SHALL PROVIDE ALL

THE BUILDING CODE OR OTHER GOVERNING CODES AND BUILDING ORDINANCES. ALL

AND DO NOT INDICATE THE METHODS OF CONSTRUCTION. THE CONTRACTOR SHALL

PROCEDURES. ANY SUPPORT SERVICES PERFORMED BY THE ARCHITECT OR ENGINEER

DETAILED INSPECTION SERVICES WHICH ARE FURNISHED BY OTHERS. THESE SUPPORT

WORK, AND FOR THE PURPOSE OF ASSISTING IN QUALITY CONTROL AND IN ACHIEVING

SERVICES PERFORMED BY THE ARCHITECT OR ENGINEER, WHETHER OF MATERIAL OR

CONFORMANCE WITH CONTRACT DOCUMENTS, DO NOT GUARANTEE CONTRACTOR'S

PERFORMANCE AND SHALL NOT BE CONSTRUED AS SUPERVISION OF CONSTRUCTION.

. IT SHALL BE THE GENERAL CONTRACTORS RESPONSIBILITY FOR THE SUPERVISION OF

RESPONSIBILITY OF THE DISCIPLINES WHO ARE MAKING THESE ATTACHMENTS. THESE

ATTACHMENTS SHALL BE DESIGNED TO RESIST ALL GRAVITY, WIND, SEISMIC, THERMAL

LOADS, ETC SPRINKLER PIPING SHALL BE SUPPORTED AND BRACED PER NFPA-13

SUSPENDED CEILING SYSTEMS OF ACOUSTICAL TILE OR LAY-IN PANELS SHALL BE

. CONCRETE SLAB—ON—GRADE HAS NOT BEEN DESIGNED FOR CONSTRUCTION LOADS OR

. VIBRATIONAL EFFECTS OF MECHANICAL EQUIPMENT HAVE NOT BEEN CONSIDERED BY

ACCORDANCE WITH ALL THE REQUIREMENTS OF ALL LEGALLY CONSTITUTED PUBLIC

. ANY REFERENCE TO THE WORDS APPROVED, OR APPROVAL IN THESE DOCUMENTS

SHALL BE HERE DEFINED TO MEAN GENERAL ACCEPTANCE OR REVIEW AND SHALL

NOT RELIEVE THE CONTRACTOR AND/OR HIS SUBCONTRACTORS OF ANY LIABILITY IN

. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE SUPERVISION OF THE WORK OF

. CONTRACTOR IS TO VERIFY ALL DIMENSIONS PRIOR TO BEGINNING OF CONSTRUCTION

B. THE STRUCTURAL SYSTEMS HAVE BEEN DESIGNED TO CARRY THE SUPERIMPOSED LIVE

LOADS AS PRESCRIBED BY THE BUILDING CODE AND IN ACCORDANCE WITH STANDARD

ENGINEERING PRACTICES, WITH NO SPECIAL PROVISIONS FOR CARRYING CONCENTRATEI

STABILITY, AND SAFETY OF NEW WORK AND PROVIDE PROTECTION AS REQUIRED FOR

CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR THE CONDITIONS

OF THE JOB SITE INCLUDING SAFETY OF PERSONS AND PROPERTY. AND EXISTING

CONSTRUCTION AND MATERIALS FROM ADVERSE CONDITIONS AND THE CONTRACTOR

9. IT IS THE RESPONSIBILITY OF THE CONTRACTOR, ARCHITECT, MECHANICAL ENGINEER,

SYSTEM TO ENSURE THAT THE STRUCTURE DETAILS IN THESE PLANS WILL NOT BE

ACCUMULATION OF MOISTURE & OTHER HARMFUL SUBSTANCES THAT COULD LEAD TO

THESE DRAWINGS SHALL BE CONSIDERED SUBSTANTIALLY COMPLETE. HOWEVER, IT IS

THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO PROVIDE ALL LABOR AND

IN THESE PLANS THERE IS NO DISTINCTION BETWEEN POSTS & COLUMNS BASED ON

MATERIALS NECESSARY TO RENDER THE WORK COMPLETE, AS IS THE INTENT OF

THESE DRAWINGS, EITHER SHOWN OR INFER HERIN, THROUGH PROPER AND

HARMFUL/DESTRUCTIVE MOLD, MILDEW, CORROSION, ETC. BUILD UP ON STRUCTURAL

AND OTHERS DESIGNERS OF THE BUILDINGS HEATING. COOLING, & VENTILATION

EXPOSED TO HARMFUL (TO THE STRUCTURE AND/OR ITS OCCUPANTS)

OPERATION OF CONSTRUCTION EQUIPMENT. THE CONTRACTOR SHALL PROVIDE ALL

SCAFFOLDING, BRACING, AND SHORING SYSTEMS AS REQUIRED FOR INSTALLATION,

ANY DISCREPANCIES MUST BE REPORTED TO THE ENGINEER BEFORE PROCEEDING

WITH WORK. COORDINATE STRUCTURAL DIMENSIONS WITH ARCHITECTURAL FLOOR

LOADS FROM STORAGE AND HANDLING OF CONSTRUCTION MATERIALS OR FROM

THE SAFETY OF PEDESTRIANS AND JOB SITE PERSONNEL. AT ALL TIMES, THE

AUTHORITIES HAVING JURISDICTION, INCLUDING ALL COUNTY AND LOCAL ORDINANCES,

AND THE SAFETY ORDERS OF THE STATE INDUSTRIAL ACCIDENT COMMISSION, OSHA.

. CONSTRUCTION AND MATERIAL SHALL COMPLY WITH AND BE INSTALLED IN

THE WORK OR POSSIBLE OMISSIONS SHOWN OR INFERRED ON THESE PLANS.

. CONNECTIONS OF ALL ITEMS SUPPORTED BY THE STRUCTURAL ARE THE

SUPPORTED AND BRACED PER CBC 1615.10.13

SPECIFIC OCCUPANT SERVICE LOADS BY THIS ENGINEER.

FURNISHING THE REQUIRED MATERIALS OR LABOR SPECIFIED.

THE PROPER EXECUTION OF SAME.

SHALL PROJECT NEW DAMAGE.

ESTABLISHED CONSTRUCTION PRACTICES.

BID IN THE MORE COSTLY MANNER.

PLANS, ELEVATIONS, SECTIONS, DETAILS ETC.

CONSTRUCTION MEANS METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES

DURING THE CONSTRUCTION SHALL BE DISTINGUISHED FROM CONTINUOUS AND

MATERIALS NECESSARY TO RENDER THE WORK COMPLETE, AS IS THE INTENT OF

THESE DRAWINGS, EITHER SHOWN OR INFERRED HEREIN, THROUGH PROPER

MATERIAL AND LABOR SHOWN OR INFERRED ON THESE PLANS.

-II) REPRESENTATIVES OF THE ARCHITECT

OR DISCREPANCIES EXIST ON THE DRAWINGS OR SPECIFICATIONS, CONTACT THE

THER SIMILAR OPENINGS NOT INDICATED ON THE STRUCTURAL DRAWINGS.

THERWISE. DETAILS OF CONSTRUCTION NOT FULLY SHOWN SHALL BE OF THE SAME

STRUCTURAL MEMBERS IN THEIR FINAL LOCATION (ERECTION CALCULATIONS).

PART IS PROHIBITED. TITLE TO THESE PLANS REMAINS WITH THE BRAD YOUNG &

ASSOCIATES, INC. AND VISUAL CONTACT WITH THEM CONSTITUTES PRIMA FACIE

OR FABRICATION BEGINS. "DO NOT SCALE DRAWINGS".

EVIDENCE OF THE ACCEPTANCE OF THESE RESTRICTIONS.

4 A FOUNDATION POURS

OF ANY PHASE.*

FRAMING DETAILS FRAMING DETAILS S6.2 ··· ··· FRAMING DETAILS ··· FRAMING DETAILS

STRUCTURAL DRAWINGS INDEX

ADJUSTABLE ENGINEER AMERICAN EQUIPMENT CONCRETI EDGE SCREW OF A.I.S.C. AMERICAN EACH SIDE NAILS INSTITUTE OF FXISTING PLYWOOD STEEL CONSTR EXPANSION POUNDS PER A.S.T.M. AMERICAN SOCIETY FOR TESTING POUNDS PER & MATERIALS FACE MOUNT AMERICAN PLYWOOD PRESS. PRESSURE ASSOCIATION FLOOR TO FLOO ARCHITECT(URAL) FOUNDATION REINFORCEMENT AMERICAN WELDING FRAMING REQUIRED SOCIETY GALVANIZED GOOD FOR ROOF TOP UNIT BRACED FRAME GLUE LAM BEAM SCHED. SHEATHING BLOCKING BUILDING HEADER BOUNDARY NAILI HORIZONTAL HIGH STRENGTH CFILING **SPECIFICATION** HIGH SIDE HALLOW SQUARE COLUMN STANDARD C.M.U. CONCRETE MASON SECTION STIFFFNFF STRUCT. STRUCTURAL CONCRETE **SYMMETRICAL** CONNECTION or KIPS 1000lbs CONSTRUCTION LAMINATE **THICKNESS** or LBS. POUNDS CONTINUOUS

LOW SIDE

MASONRY

MAXIMUM

LIGHT WEIGHT

LONG LEG VERT

MOMENT FRAME

MACHINE BOLT

NOT TO SCLAE

DOUBLE ANGLE

DEMOLISH

DIAGONAL

DIAMETER

DIMENSION

DRAWING

DETAIL

-NATIVE SOIL -ENGINEERED FILL -AGGREGATE -CONTINUOUS WOOD MEMBER

J.N.O.

W.W.M.

UNLESS NOTE

WELDED WIRE

WIDE FLANGE

WOOD SCREW

VERTICAL

DETAIL CUT REFERENCE SECTION CUT REFERENCE FOOTING & COLUMN SCHEDULE ITEM

SHEARWALL

SCHEDULE ITEM & PLANS)

ELEVATION (SECTIONS INDICATES NEW BUILDING GRID LINE.

INDICATES EXISTING BUILDING GRID LINE. → MOMENT CONNECTION

SYMBOLS

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STANDARD

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