- ARCHITECTURAL DRAWINGS, CONTRACTOR SHALL COORDINATE WITH ARCHITECT PRIOR TO FABRICATION AND CONSTRUCTION.
- 2. CONTRACTOR SHALL PROVIDE TEMPORARY GUYS AND BRACING AS REQUIRED DURING CONSTRUCTION. STRUCTURE IS NOT STABLE UNTIL ALL STRUCTURAL MEMBERS,
- CONNECTIONS, AND DECKING ARE IN PLACE. 3. CONTRACTOR SHALL BRACE THE STAGGERED TRUSSES DURING ERECTION AND TO LOAD TRUSSES EVENLY FROM BOTH SIDES TO PREVENT LATERAL TORSIONAL BUCKLING OF THE
- 4. FIELD VERIFY ALL EXISTING CONDITIONS. NOTIFY DESIGN TEAM WHEN EXISTING CONDITIONS ARE IN CONFLICT WITH THE CONSTRUCTION DOCUMENTS.

FOUNDATION NOTES

- 1. A SOIL INVESTIGATION HAS BEEN DONE FOR THIS SITE BY PALMERTON & PARRISH ON 08/18/2017. THE SOILS REPORT SHALL BE CONSIDERED A PART OF THESE FOUNDATION NOTES AND ALL RECOMMENDATIONS THEREIN SHALL BE FOLLOWED. 2. IN THE AREA OF THE BUILDING, EXISTING ORGANIC MATERIAL, UNSUITABLE SOIL, ABANDONED
- FOOTINGS, PAVEMENT AND OTHER DELETERIOUS MATERIALS SHALL BE REMOVED.
- SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE RECOMMENDATIONS OF A SOILS
- 4. TESTING OF CONTROLLED STRUCTURAL FILL SHALL BE PERFORMED BY A QUALIFIED TESTING LABORATORY IN ACCORDANCE WITH THE SPECIAL INSPECTION NOTES.
- 5. EXCAVATION FOR FOOTINGS SHALL BE CUT TO ACCURATE SIZE AND DIMENSIONS AS SHOWN ON CONCRETE CONSTRUCTION INSPECTION PLANS. ALL SOIL BELOW SLABS AND FOOTINGS SHALL BE PROPERLY COMPACTED AND SUBGRADE BROUGHT TO A REASONABLE TRUE AND LEVEL PLANE BEFORE PLACING CONCRETE. 6. AFTER EXCAVATION FOR FOUNDATIONS AND PRIOR TO PLACEMENT OF STEEL REINFORCEMENT
- OR CONCRETE, NOTIFY SOILS ENGINEER FOR INSPECTION OF SOIL CONDITIONS. 7. FOOTINGS SHALL BEAR AT MINIMUM DEPTHS AS NOTED IN FOOTING SECTIONS AND PLANS OR INTO APPROVED BEARING STRATA, WHICHEVER DEPTH IS GREATER. NOTE THAT FOOTING BEARING ELEVATIONS GIVEN ON THE PLANS ARE ESTIMATED DEPTHS ONLY. WHERE UNSUITABLE SOIL IS ENCOUNTERED OR WHERE FINISHED EXTERIOR GRADE VARIES FROM THE

ASSUMED EXTERIOR GRADE, FOOTING DEPTHS MAY VARY.

- 8. CONTINUOUS SPREAD FOOTINGS AND ISOLATED FOOTINGS ARE DESIGNED FOR A NET ALLOWABLE BEARING OF 12 000 PSE FOR BEDROCK AFTER FOOTING EXCAVATIONS HAVE BEEN MADE TO DESIGN ELEVATIONS. THE INDEPENDENT TESTING AGENCY EMPLOYED BY THE OWNER SHALL INSPECT AND TEST THE BEARING SOIL. WHEN SOIL OF INADEQUATE STRENGTH IS NOTED, CONTRACTOR SHALL FURTHER DEEPEN EXCAVATIONS UNTIL SUITABLE BEARING CONDITIONS ARE VERIFIED BY TESTING. OVER EXCAVATIONS MAY BE BACKFILLED WITH SUITABLE COMPACTED ENGINEERED FILL, SUITABLE GRANULAR BASE, LEAN CONCRETE OR STRUCTURAL CONCRETE BACKFILL.
- 9. ALL FOOTINGS ARE TO BE PLACED ON BEDROCK. IF FOOTINGS ARE TO BE PLACED ON FILL, CONTACT EOR FOR ADDITIONAL INSTRUCTIONS. FOOTING SIZES MAY INCREASE IF NOT FOUNDED ON LIMESTONE BEDROCK AS DESCRIBED IN THE GEOTECHNICAL INVESTIGATION. 10. BOTTOM OF PIER ELEVATIONS SHOWN ON THE PIER SCHEDULE ARE FOR ESTIMATING

RECOMMENDATIONS TO ACHIEVE THE PROPER BEARING CAPACITY.

SPECIAL INSPECTION NOTES

REFERENCED IN THE LOAD TABLE. THE OWNER SHALL EMPLOY A THIRD PARTY TESTING AGENCY FOR ALL TESTING STATED HEREIN. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL INSPECTIONS WITH SAID INSPECTION AGENCY. 2. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE

COMPETENCE TO PERFORM THE REQUIRED INSPECTION TO THE SATISFACTION OF THE

- 3. THE SPECIAL INSPECTOR SHALL KEEP RECORDS OF INSPECTIONS. INSPECTION REPORTS SHALL BE SUBMITTED TO THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE.
- 4. REPORTS SHALL INDICATE THAT WORK INSPECTED WAS DONE IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THE DISCREPANCIES ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF BUILDING OFFICIAL AND THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE PRIOR TO THE COMPLETION OF THAT PHASE OF THE WORK. A FINAL REPORT OF INSPECTIONS DOCUMENTING REQUIRED SPECIAL INSPECTIONS AND
- CORRECTION OF ANY DISCREPANCIES SHALL BE SUBMITTED TO THE OWNER. BUILDING OFFICIAL AND THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE AT THE COMPLETION OF THE STRUCTURAL PORTION OF THE WORK.
- 3. ALL UNDERCUTTING, SITE PREPARATION, FILL SELECTION, BACKFILLING AND COMPACTION 6. THE THIRD PARTY TESTING AGENCY SHALL CONTACT THE STRUCTURAL ENGINEER OF RECORD PRIOR TO INITIATION OF CONSTRUCTION. SOIL TESTING AND INSPECTION

7. SEE FOUNDATION NOTES

- INSPECT REINFORCING STEEL PRIOR TO PLACING CONCRETE. CHECK REINFORCING SIZE, SPACING AND LOCATION.
- CYLINDERS SHALL BE MADE FOR DETERMINING THE CONCRETE STRENGTH FROM EACH CLASS OF CONCRETE TO BE PLACED. SAMPLES SHALL BE TAKEN NOT LESS THAN ONCE A DAY, NOR LESS THAN ONCE FOR EACH 150 CUBIC YARDS OF CONCRETE, NOR LESS THAN ONCE FOR EACH 5,000 SQUARE FEET OF SURFACE AREA FOR SLABS OR WALLS.
- 10. EACH TIME THE CYLINDERS ARE MADE THE SLUMP, AIR CONTENT AND TEMPERATURE OF THE CONCRETE SHALL ALSO BE CHECKED. 11. THE CONTRACTOR'S METHOD OF MAINTAINING THE MINIMUM CURING TEMPERATURE AND CURING TECHNIQUE SHALL BE REVIEWED.
- STEEL CONSTRUCTION INSPECTION 12. PERIODICALLY VERIFY THAT THE PROPER MATERIALS ARE BEING USED.
- PERIODICALLY CHECK TIGHTENING OF HIGH-STRENGTH BOLTS USING THE TURN OF THE NUT METHOD WITH MATCH MARKING TECHNIQUES OR DIRECT TENSION INDICATOR BOLTS. 14. WELDING PROCEDURES, MATERIALS AND WELDER QUALIFICATIONS FOR ALL FIELD WELDING SHALL BE VERIFIED PRIOR TO THE START OF WORK.
- METAL STUD CONSTRUCTION 15. PERIODICALLY VERIFY THAT THE PROPER SIZE, GRADE, SPACING, ETC. OF ALL FRAMING PURPOSES ONLY AND ARE NOT NECESSARILY TO BE USED FOR CONSTRUCTION. BOTTOM OF MEMBERS ARE USED. PIERS SHALL BE ADJUSTED IN THE FIELD PER THE GEOTECHNICAL ENGINEER'S
 - 16. PERIODICALLY VERIFY THAT THE PROPER CONNECTIONS ARE USED INCLUDING FRAMING ANCHORS, HANGERS, SIZE, SPACING & NUMBER OF FASTENERS, ETC. 17. PERIODICALLY VERIFY THAT ALL STRUCTURAL BRIDGING, BLOCKING AND BRACING IS PROPERLY INSTALLED...

CONCRETE NOTES

1. IN CASES OF DISCREPANCIES IN DIMENSIONS AND ELEVATIONS BETWEEN STRUCTURAL AND 1. SPECIAL INSPECTIONS SHALL BE REQUIRED IN ACCORDANCE WITH CHAPTER 17 OF THE IBC 1. CONCRETE WORK SHALL CONFORM TO BUILDING CODE REQUIREMENTS FOR REINFORCED 1. PRECAST CONCRETE DOUBLE TEES, BEAMS, COLUMNS, ETC. SHALL BE DESIGNED AND CONCRETE (ACI 318) AND SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS (ACI CONCRETE SHALL BE CONTROLLED CONCRETE, PROPORTIONED, MIXED AND PLACED UNDER THE SUPERVISION OF AN APPROVED CONCRETE TESTING AGENCY. SEE THE SPECIAL INSPECTION NOTES FOR ADDITIONAL INFORMATION.

3. CONCRETE FOR FOOTINGS HAVE A 28-DAY COMPRESSIVE STRENGTH OF 3000 PSI. THE

- MAXIMUM WATER TO CEMENT RATIO SHALL BE 0.52 BY WEIGHT. A MINIMUM OF 4 BAGS OF CEMENT SHALL BE USED PER CUBIC YARD WITH A SLUMP OF 4" +/- 1". CONCRETE FOR FOUNDATION WALLS, INTERIOR SLABS ON GRADE, TOPPING SLABS AND ELEVATED STRUCTURAL SLABS SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH OF 3500 PSI. THE MAXIMUM WATER TO CEMENT RATIO SHALL BE 0.50 BY WEIGHT. A MINIMUM OF 5 1/2 BAGS OF CEMENT SHALL BE USED PER CUBIC YARD WITH A SLUMP OF 4" +/- 1".
- AESTHETIC JOINTS AND DIMENSIONS OF PANELS. CONCRETE FOR EXTERIOR USES, SIDEWALKS, EXTERIOR SLABS ON GRADE, ETC. SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH OF 4000 PSI AND SHALL BE AIR-ENTRAINED TO 6% +/- 1% WITH AN AIR-ENTRAINING ADMIXTURE CONFORMING TO ASTM C260. A MINIMUM OF 5 3/4 BAGS OF CEMENT SHALL BE USED PER CUBIC YARD WITH A SLUMP OF 4" +/- 1". THE MAXIMUM WATER TO 7. CEMENT RATIO SHALL BE 0.45 BY WEIGHT.
- CONCRETE SLABS SHALL BE FINISHED TO THE FOLLOWING TOLERANCES:
- A. SPECIFIED OVERALL VALUE F_F =50 F_L =33 MINIMUM LOCAL VALUE F_F =25 F_L =17 B. FLOOR TOLERANCE MEASUREMENTS FOR LEVELNESS AND FLATNESS SHALL BE TESTED IN 8. ACCORDANCE WITH ASTM E 1155. ACTUAL OVERALL F-NUMBERS SHALL BE CALCULATED
- USING THE INFERIOR/SUPERIOR AREA METHOD. C. ALL FLOOR TOLERANCE MEASUREMENTS SHALL BE MADE BY THE CONTRACTOR WITHIN 24 HOURS AFTER SLAB INSTALLATION AND BEFORE SAW CUTTING OF CONTROL JOINTS. IN ALL CASES, TOLERANCE MEASUREMENTS SHALL PRECEDE THE REMOVAL OF SHORES AND
- MEETING THE MINIMUM TOLERANCES HEREIN SHALL BE REMOVED OR REPAIRED AT THE DIRECTION OF THE ARCHITECT/ENGINEER. SYNTHETIC FIBROUS REINFORCING MATERIAL SHALL BE MADE WITH 100% VIRGIN POLYPROPYLENE FIBRILLATED FIBERS SPECIFICALLY MANUFACTURED TO USE AS CONCRETE SECONDARY REINFORCEMENT. FIBERS SHALL HAVE A SPECIFIC GRAVITY OF 0.91. OPTIMUM GRADATION PER MANUFACTURER AND SHALL COMPLY WITH LOCAL AND NATIONAL BUILDING

FORMS RESULTS OF ALL FLOOR PROFILE TESTS SHALL BE PROVIDED TO THE

CONTRACTOR WITHIN 48 HOURS OF EACH SLAB INSTALLATION. SECTIONS OF FLOOR NOT

- CODES. FIBERS SHALL MEET ASTM C-1116 TYPE III, 4.1.3, "STANDARD SPECIFICATION FOR FIBER REINFORCED CONCRETE AND SHOTCRETE". FIBERS SHALL BE ADDED AT THE CONCRETE BATCH PLANT AT A MINIMUM RATE OF 1.5 POUNDS PER CUBIC YARD. SYNTHETIC FIBROUS REINFORCING SHALL BE EQUAL TO "FIBERMESH INFORCE E3" 8. IF ADDITIONAL FLOWABILITY IS REQUIRED FOR PLACEMENT OF ANY CONCRETE MIX, A 1.
- ADDITIONAL WATER MAY BE ADDED TO THE MIX. 9. FLY ASH MAY BE USED AS A ONE TO ONE REPLACEMENT FOR THE CEMENT UP TO 20% OF THE TOTAL CEMENT CONTENT AS LONG AS THE AMBIENT TEMPERATURE IS ABOVE 50 DEGREES

WATER-REDUCING ADDITIVE CONFORMING TO ASTM C494, TYPE A, SHALL BE USED. NO

- 10. DO NOT AIR ENTRAIN CONCRETE TO BE USED FOR FLOORS WITH A TROWELED FINISH. DO NOT ALLOW ENTRAPPED AIR CONTENT TO EXCEED 3%. 11. FINE AND COARSE AGGREGATE SHALL MEET THE REQUIREMENTS OF ASTM C33 FOR GRADING SIZE, PARTICLE DISTRIBUTION, DELETERIOUS CONTENT, SOUNDNESS AND CHERT. COURSE AGGREGATES SHALL MEET THE REQUIREMENTS OF ASTM C33 TABLE 3 CLASS 4S. FINE AGGREGATE MAY BE NATURAL OR MANUFACTURED SAND FROM QUARRIES OR PITS WHICH HAVE GIVEN SATISFACTORY SERVICE PERFORMANCE WHEN EXPOSED IN A SIMILAR MANNER TO
- 12. ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60. LAP ALL SPLICES 30 BAR DIAMETERS. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185. LAP FABRIC 6" ON SIDES AND ENDS. MAINTAIN WIRE 1" TO 2" BELOW TOP SURFACE OF SLABS ON GRADE.
- 13. WHERE FOOTINGS, WALLS, OR OTHER STRUCTURAL ELEMENTS INTERSECT, CORNER OR TEE, PROVIDE CORNER BARS WITH REQUIRED LAP LENGTHS TO PROVIDE CONTINUITY OF 6. WELDED WIRE MESH SHALL BE SUPPORTED TO ALLOW 1" OF COVER IN ALL LOCATIONS. HORIZONTAL REINFORCING UNLESS NOTED OTHERWISE. 14. COLD-WEATHER PLACEMENT SHALL COMPLY WITH ACI 306.1
- 15. HOT-WEATHER PLACEMENT SHALL COMPLY WITH ACI 305R.

THAT TO BE ENCOUNTERED.

PRECAST CONCRETE NOTES

- FABRICATED BY A FIRM EXPERIENCED IN THIS FIELD. FABRICATOR SHALL ACCEPT FULL RESPONSIBILITY FOR THE DESIGN OF ALL MEMBERS AND CONNECTIONS TO STRUCTURE. FABRICATOR SHALL SUBMIT CALCULATIONS WITH SHOP DRAWINGS STAMPED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE IN WHICH THE PROJECT IS LOCATED TO THE ARCHITECT FOR APPROVAL PRIOR TO FABRICATION OF PRECAST PANELS.
- FABRICATOR SHALL ADD REINFORCING AS REQUIRED FOR TRANSPORTING, LIFTING, ERECTION,
- SEE ARCHITECTURAL DRAWINGS FOR EXACT SIZE AND LOCATIONS OF OPENINGS IN PANELS OR ADDITIONAL PANEL EMBEDMENTS. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS AND ELEVATIONS OF ALL PANEL JOINTS,
- SEE OWNER/ARCHITECT FOR ALL COLOR, AGGREGATE, AND FINISH REQUIREMENTS FOR PRECAST MEMBERS. USE A SINGLE SOURCE FOR CONCRETE INGREDIENTS FOR THE ENTIRE PRECAST MANUFACTURER SHALL ENGINEER, FABRICATE, TRANSPORT, AND INSTALL ALL PRECAST UNITS, REINFORCING AND NECESSARY CONNECTIONS, ANCHORAGES, EMBEDDED
- ITEMS, ETC. RELATED TO THE PRECAST TO WITHSTAND GRAVITY, WIND, SEISMIC AND THERMAL LOADS IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE REFERENCED IN THE LOAD RESPONSIBILITY OF THE PRECAST MANUFACTURER. WHERE OTHER MATERIALS CONNECT TO, OR ARE SUPPORTED BY, THE PRECAST MEMBERS, IT IS THE RESPONSIBILITY OF THE PRECAST
- MANUFACTURER TO DESIGN AND PROVIDE CONNECTIONS. WHERE MAJOR STRUCTURAL STEEL MEMBERS ATTACH TO PRECAST ELEMENTS, LOADS WILL BE PROVIDED. THE PRECAST MANUFACTURER SHALL PROVIDE ACCURATE EMBEDMENT PLANS SHOWING LOCATIONS OF WELD PLATES REQUIRED TO ATTACH PRECAST ELEMENTS TO CAST-IN-PLACE
- WELD PLATES OR ANGLES FOR CONNECTION OF PRECAST ELEMENTS TO CAST-IN-PLACE CONCRETE SHALL BE DESIGNED AND SUPPLIED BY THE PRECAST MANUFACTURER. PRECAST PANELS ARE TO BE USED FOR LOAD BEARING WALLS AND SHEAR WALLS IN SOME AREAS. THE PRECAST WALL PANELS SHALL BE DESIGNED TO ACT AS SHEAR WALLS TO RESIST THE LATERAL WIND AND SEISMIC LOADS FOR THE ENTIRE BUILDING. SEE THE STRUCTURAL

FRAMING PLANS AND DETAILS FOR LOADS AND SUGGESTED DETAILS.

- STEEL DECKING SHALL BE DESIGNED, FABRICATED AND INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE STEEL DECK INSTITUTE SPECIFICATIONS. METAL DECK SHALL BE CAPABLE OF SUPPORTING THE LOADS CALLED FOR ON THE DRAWINGS ON THE SPANS AND SPACING SHOWN FOR JOIST AND STEEL FRAMING. LAYOUT FLOOR DECK TO HAVE A MINIMUM OF THREE CONTINUOUS SPANS WHERE POSSIBLE.
- WHERE DECK RIBS ARE CUT AT PENETRATIONS, PROVIDE DECK SUPPORT ANGLES OR DECK ROOF DECKING SHALL BE 1 1/2", 22 GAGE, TYPE B, STEEL DECK - GALVANIZED. ATTACH ROOF DECK TO SUPPORTS WITH 5/8" DIAMETER PUDDLE WELDS IN A 36/4 PATTERN AT END LAPS AND ALL INTERMEDIATE SUPPORTS. WELD ROOF DECK TO PERIMETER SUPPORTS AT 12" O.C. MAXIMUM SPACING. PROVIDE THREE (3) #10 TEK SCREWS SIDELAP FASTENERS BETWEEN SUPPORTS. ALTERNATE FASTENING SYSTEMS MAY BE USED IF APPROVED IN WRITING BY THE
- FLOOR DECKING SHALL BE 1 1/2". 22 GAGE, TYPE VL COMPOSITE STEEL DECK GALVANIZED ATTACH FLOOR DECK TO SUPPORTS WITH WELDING WASHERS IN A 30/4 PATTERN AT END LAPS AND ALL INTERMEDIATE SUPPORTS. WELD FLOOR DECK TO PERIMETER SUPPORTS AT 12" ON
- ALL DECKING SHALL HAVE A MINIMUM BEARING WIDTH OF 2" ON ALL PERIMETER ANGLES.
- 7. PRIOR TO CONCRETE PLACEMENT THE STEEL DECK SHALL BE FREE OF SOIL, DEBRIS, STANDING WATER, LOOSE MILL SCALE, AND OTHER FOREIGN MATTER. 8. ALL DECK SHEETS SHALL HAVE ADEQUATE BEARING AND FASTENING TO ALL SUPPORTS SO AS
- NOT TO LOSE SUPPORT DURING CONSTRUCTION. AREAS SUBJECT TO HEAVY OR REPEATED TRAFFIC, CONCENTRATED LOADS, IMPACT LOADS, WHEEL LOADS, ETC. SHALL BE ADEQUATELY PROTECTED BY PLANKING OR OTHER APPROVED MEANS TO AVOID OVERLOADING AND DAMAGE. DAMAGED DECKING SHALL BE REPAIRED, REPLACED, OR SHORED TO THE SATISFACTION OF THIS FIRM BEFORE PLACING CONCRETE. THE COST OF REPAIRING, REPLACING, OR CHORING OF DAMAGED UNITS SHALL BE THE LIABILITY OF THE TRADE CONTRACTOR RESPONSIBLE FOR THE DAMAGE.

STRUCTURAL STEEL NOTES

- 1. ALL WIDE FLANGE STRUCTURAL STEEL BEAMS FY = 50 KSI. SQUARE AND RECTANGULAR HO A500, GRADE B. FY = 46 KSI AND ROUND HOLLO GRADE B, FY = 42 KSI. ALL OTHER MISCELLANE SHALL BE ASTM A36.
- 2. ACI, AISC AND AWS SPECIFICATIONS SHALL GOVERN ALL PHASES OF FABRICATION AND 3. STRUCTURAL BOLTS SHALL BE ASTM A325. ALL ANCHOR BOLTS SHALL BE ASTM F1554, GRADE
- 4. ALL WELDS SHALL BE E70XX, UNLESS NOTED OTHERWISE OR UNLESS REQUIRED FOR SPECIAL
- 5. WELDING OF STRUCTURAL MEMBERS SHALL BE PERFORMED BY CERTIFIED WELDERS AND WELDING SHALL BE IN ACCORDANCE WITH "STRUCTURAL WELDING CODE" OF THE AMERICAN WELDING SOCIETY (AWS D1.1). DETAILS OUTLINE BASIC CONNECTION TYPES. NON-COMPOSITE BEAM TO BEAM AND BEAM TO COLUMN CONNECTIONS NOT DETAILED IN DRAWINGS SHALL BE SIZED BY STEEL DETAILER AS STANDARD AISC, TYPE 2, BEARING CONNECTIONS CAPABLE OF SUPPORTING REACTIONS
- ALL BOLTED CONNECTIONS SHALL BE SNUG-TIGHTENED JOINTS UNLESS NOTED OTHERWISE. THE DESIGN OF THE CONNECTIONS BETWEEN THE PRECAST MEMBERS SHALL BE THE 8. ALL STRUCTURAL STEEL CONSTRUCTION SHALL BE INSPECTED AND TESTED IN ACCORDANCE WITH THE SPECIAL INSPECTION NOTES.

DEVELOPED BY MAXIMUM UNIFORM LOAD CAPACITY ON A SIMPLE SPAN FOR BEAM TO BEAM

- STEEL JOISTS SHALL BE DESIGNED AND MANUFACTURED IN ACCORDANCE WITH THE STEEL JOIST INSTITUTE (SJI) STANDARD SPECIFICATIONS FOR THE LOADS AND SPANS SHOWN ON THE PLANS WITH A MAXIMUM LIVE LOAD DEFLECTION OF L/360. PROVIDE THE RECOMMENDED CAMBER FOR JOIST SPAN. DO NOT WELD EXTENDED BOTTOM CHORDS OF JOIST UNTIL ALL DEAD LOAD IS IN PLACE.
- HORIZONTAL BRIDGING AND CROSS BRIDGING SHOWN ON THE PLANS IS FOR REFERENCE ONLY. JOIST MANUFACTURER SHALL DESIGN AND SUPPLY ALL BRIDGING REQUIRED. A NET WIND UPLIFT OF 10 PSF SHALL BE USED. 3. ALL STEEL JOISTS AND BRIDGING SHALL BE DESIGNED TO CONFORM WITH THE U.L. FIRE ASSEMBLIES SPECIFIED. SEE ARCHITECTURAL DRAWINGS FOR U.L. FIRE ASSEMBLIES WHERE
- THEY ARE REQUIRED. 4. ANY CONCENTRATED LOADS WHICH EXCEED 50 POUNDS. REQUIRED FOR TYPICAL CONSTRUCTION, AND ARE ATTACHED TO ROOF OR ELEVATED FLOOR STRUCTURE SUCH AS CEILINGS, PIPE HANGERS, MECHANICAL DUCTWORK, ELECTRICAL FIXTURES, ETC. SHALL BE ATTACHED TO PANEL POINTS OF BAR JOIST. IF SUCH LOADS MUST BE ATTACHED TO TOP OR BOTTOM CHORD OF BAR JOIST BETWEEN PANEL POINTS, PROVIDE ADDITIONAL FRAMING AS REQUIRED TO TRANSFER LOADS TO PANEL POINTS. DO NOT SUSPEND LOADS OVER 250

POUNDS FROM THE BAR JOIST UNLESS EQUIPMENT IS SHOWN AND NOTED IN THE PLANS AND

THE GENERAL CONTRACTOR SHALL COORDINATE JOIST SPACING WITH ROOF PENETRATIONS FOR MECHANICAL EQUIPMENT OR OTHER ITEMS IN THIS CONTRACT WHICH MAY CONFLICT WITH JOIST SPACING SHOWN. JOIST MAY BE SHIFTED TO MISS REQUIRED PENETRATIONS - ISOLATED SPACES (NO MORE THAN 2 ADJACENT SPACES) MAY BE INCREASED OR DECREASED BY A MAXIMUM OF 6". ANY ADJUSTMENTS MUST BE SHOWN ON THE BAR JOIST SHOP DRAWINGS. 6. PROVIDE AN L3.5x3.5x1/4 "H" FRAME BELOW ALL ROOF MOUNTED MECHANICAL EQUIPMENT

STRUCTURAL PROVISIONS HAVE BEEN MADE FOR SUPPORT.

UNLESS NOTED OTHERWISE. 7. ROOF TOP MECHANICAL UNIT WEIGHTS INDICATED ON THE FRAMING PLANS ARE TO BE APPLIED IN ADDITION TO THE UNIFORM TOTAL LOAD/LIVE LOADS INDICATED. VERIFY THE RTU LOCATIONS AND WEIGHTS WITH THE MECHANICAL CONTRACTOR.

METAL STUD FRAMING NOTES

- STUDS SHALL BE DESIGNED, MANUFACTURED, AND INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA) AND THE AMERICAN IRON AND STEEL INSTITUTE (AISI). EXTERIOR WALL STUDS SHALL BE 6" x 1 5/8" x 18 GAGE (SSMA 600S162-43) STEEL STUDS (Fy = 33 BOTTOM TRACK AT EXTERIOR WALLS SHALL BE 6" x 1 1/4" x 18 GAGE (SSMA 600T125-43) STEEL TRACK (Fy = 33 KSI). TOP TRACK SHALL BE 18 GAGE DEFLECTION TRACK EQ TO "CLARK DETRICH
- 4. PROVIDE HORIZONTAL BRIDGING AT 4'-0" O.C. IN ALL LOAD BEARING WALLS. BRIDGING MAY CONSIST OF BLOCK AND STRAP BRIDGING OR COLD ROLLED CHANNELS WITH BRIDGING CLIPS.

	LOAD TABLE
IS AND COLUMNS SHALL CONFORM TO ASTM A992, HOLLOW STRUCTURAL SECTIONS SHALL BE ASTM	2012 IBC
LOW STRUCTURAL SECTIONS SHALL BE ASTM A500, NEOUS STEEL (CHANNELS, ANGLES, PLATES, ETC.)	DEAD LOADS
incodo Stele (Channels, Angles, Flates, Etc.)	FLOOR

4" CONCRETE ON MTL DECK

WEIGHT OF BUILDING MATERIALS

6" HOLLOW CORE PLANKS w/3" CIP TOP

10" HOLLOW CORE PLANKS w/3" CIP TOP

10 PSF

5 PSF

5 PSF

125 PSF

40 PSF

90.0 MPH

0.219

STEEL STAGGERED TRUSS & FRAME

EQUIV LATERAL FORCE PROCEDURE

ORDINARY MOMENT

645 KIPS

0.113

SLAB ON GRADE

SLAB ON GRADE

SLEEPING AREAS

CCUPANCY CATEGORY

FLAT ROOF SNOW LOAD

BASIC WIND SPEED

ARTHQUAKE DESIGN DATA

SITE CLASS

SNOW EXPOSURE FACTOR

SNOW LOAD IMPORTANCE FACTOR

SEISMIC IMPORTANCE FACTOR

MAPPED SPECTRAL RESPONSE

ACCELERATIONS

SPECTRAL RESPONSE

COEFFICIENTS

DESIGN BASE SHEAR

SEISMIC DESIGN CATEGORY

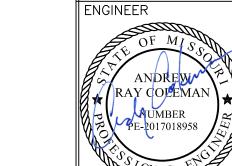
SEISMIC RESPONSE FACTOR

ANALYSIS PROCEDURE USED

BASIC SEISMIC-FORCE-RESISTING

ROOF SNOW LOAD

IND DESIGN DATA



NDREW RAY COLEMAN- ENGINEE SSOURI LICENSE # PE-201701895

06.25.2018 CHECKED:

. STEPHENS | A. COLEMAN

