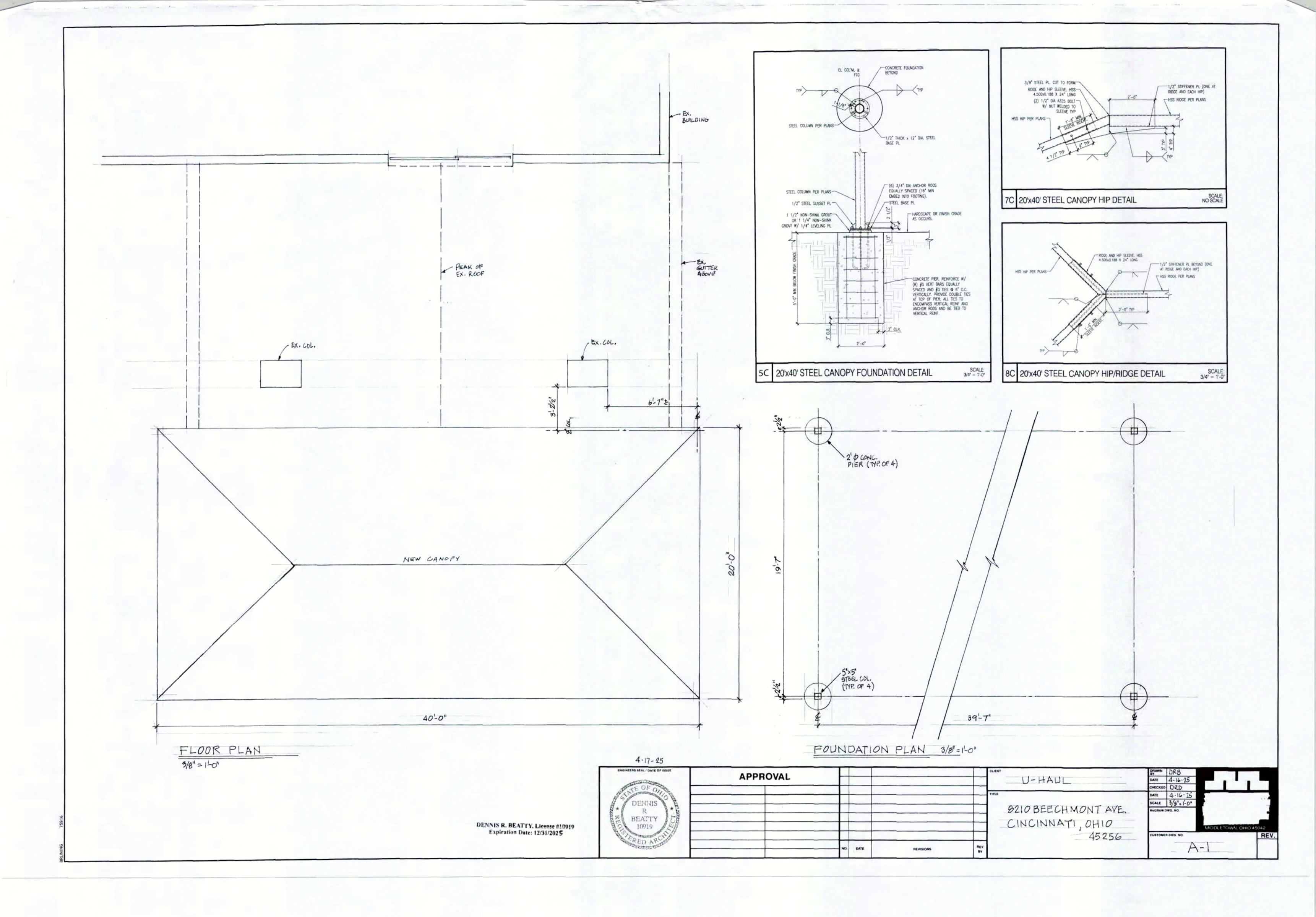


Proposed 20' X 40' Canvas Canopy
U – H a u l

8210 Beechmont Ave. Anderson Township, Hamilton County Cincinnati, Ohio 45255



CENERAL CONDITIONS

- 1. THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE DRAWINGS OF ALL DTHER DISCIPLINES AND SPECIFICATIONS. THE CONTRACTOR SHALL VERIFY THE REQUIREMENTS OF OTHER TRADES AS TO SLEEVES, CHASES, HANGERS, INSERT ANCHORS, HOLES, AND OTHER ITEMS TO BE PLACED OR SET IN THE STRUCTURAL WORK.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL SAFETY PRECAUTIONS AND REGULATIONS DURING THE WORK, THE ENGINEER WILL NOT ADVISE ON, NOR ISSUE DIRECTION, AS TO SAFETY PRECAUTIONS AND PROGRAMS.
- METHODS, PROCEDURES AND SEQUENCES OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO MAINTAIN AND INSURE THE INTEGRITY AND STABILITY OF THE STRUCTURE AT ALL STAGES OF CONSTRUCTION. THE STRUCTURE SHOWN ON THE DRAWINGS HAS BEEN DESIGNED FOR STABILITY UNDER THE FINAL CONFIGURATION ONLY.
- 4: THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO FABRICATION OF ANY STRUCTURAL COMPONENTS. IMMEDIATELY NOTIFY THE ENGINEER AND/OR ARCHITECT OF ANY DISCREPANCIES FOUND DURING FIELD VERIFICATION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING TO OBTAIN ENGINEER'S CLARIFICATION BEFORE
- CONTRACTOR INITIATED CHANGES SHALL BE SUBMITTED IN WRITING TO THE ENGINEER AND/OR ARCHITECT FOR APPROVAL. PRIOR TO FABRICATION OF ANY STRUCTURAL COMPONENTS. ALL CHANGES REQUIRE THE WRITTEN APPROVAL OF THE ENGINEER AND/OR ARCHITECT. UNAUTHORIZED DEVIATIONS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- 6. THE CONTRACTOR SHALL SHORE OR CRIB THE STRUCTURE FOR ALL CONSTRUCTION LOADS WHICH EXCEED THE NOTED DESIGN LOADS. DO NOT APPLY ANY ERECTION OR CONSTRUCTION LOADS UNTIL STRUCTURAL FRAMING IS PROPERLY
- CONNECTED TOCETHER AND UNTIL ALL TEMPORARY BRACING IS IN PLACE. 7. ALL STRUCTURAL WORK THAT IS COMPOSED OF COMPONENTS DESIGNED BY OTHERS SHALL BE IN ACCORDANCE WITH THE
- MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS AND SUPERVISED BY THE MANUFACTURER'S REPRESENTATIVE(S) DURING THE MANUFACTURING, DELIVERY, HANDLING, STORAGE, AND ERECTION AS REQUIRED.
- 6. DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION, WHERE CONDITIONS ARE NOT SPECIFICALLY SHOWN.
- SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED, SUBJECT TO APPROVAL BY THE ENGINEER. ALL ASTM AND OTHER REFERENCES ARE PER THE LATEST EDITIONS OF THOSE STANDARDS, UNLESS OTHERWISE NOTED.
- 10. COORDINATE ALL CONSTRUCTION ACCESS AND OPERATIONS FOR ALL WORK THAT OCCURS ADJACENT TO AN EXISTING STRUCTURE AS NECESSARY TO AVOID DISRUPTION TO SAID STRUCTURE.
- 11. ALL STRUCTURAL CONSTRUCTION DOCUMENTS (DRAWINGS, DETAILS, CALCULATIONS, AND ALL OTHER STRUCTURAL INFORMATION) PROVIDED ARE THE PROPERTY OF U-HAUL INTERNATIONAL / AMERCO REAL ESTATE (U-HAUL) AND ARE FOR USE ON THIS PROJECT ONLY. ANY OTHER USE OF THE STRUCTURAL CONSTRUCTION DOCUMENTS IS STRICTLY PROHIBITED WITHOUT THE WRITTEN PREMISSION OF U-HAUL
- 12. THE SCOPE OF SERVICES CARRIED OUT BY U-HAUL DOES NOT INCLUDE A FIELD REVIEW DURING CONSTRUCTION UNLESS OTHERWISE AGREED UPON IN WRITING. THE CONSTRUCTION DOCUMENTS ARE ISSUED WITH THE UNDERSTANDING THAT THE CONTRACTOR IS SOLELY RESPONSIBILITY FOR VERIFING ALL WORK IS CARRIED OUT IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND THAT ANY DISCREPANCIES OR OMISSIONS WILL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT AND ENGINEER.
- 13. IF DRAWINGS AND CALCULATIONS ARE PROVIDED ELECTRONICALLY; COPIES OF THE ORIGINAL CONSTRUCTION DOCUMENTS AS DESIGNED BY U-HAUL HAVE BEEN RETAINED BY U-HAUL. U-HAUL IS NOT RESPONSIBILITY FOR ANY SUBSEQUENT CHANGES TO THE REPRODUCIBLE ORIGINAL CONSTRUCTION DOCUMENTS (I.E. DOCUMENTS PROVIDED ELECTRONICALLY) WHICH ARE NOT MADE OR OTHERWISE COMMUNICATED IN WRITING BY U-HAUL.

SHOP DRAWINGS / DEFERRED STRUCTURAL SUBMITTALS

- 1. THE CONTRACTOR SHALL SUBMIT A MINIMUM OF THREE COPIES OF THE FOLLOWING SHOP DRAWINGS (MAXIMUM SCALE 1/8: = 1'-0') TO THE ARCHITECT/ENGINEER PRIOR TO THE FABRICATION OF ANY STRUCTURAL COMPONENTS (ONE COPY TO BE RETAINED BY THE ARCHITECT AND ENGINEER). AS A MINIMUM, ALL SHOP DRAWING SUBMITTALS SHOULD INCLUDE PLANS, ELEVATIONS, SECTIONS, DETAILS OF INSTALLATION AND CONNECTIONS, AND MATERIAL SPECIFICATIONS, UNLESS
- 2. SHOP DRAWINGS AND OTHER ITEMS SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR REVIEW PRIOR TO FABRICATION. BEFORE BEING SUBMITTED FOR REVIEW, ALL SHOP DRAWINGS SHALL BE CHECKED BY THE FABRICATOR AND BEAR THE CHECKER'S INITIALS AND SHALL BE REVIEWED BY THE CONTRACTOR FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS AND HAVE AN APPROVAL STAMP PLACED ON EACH SHOP DRAWING INDICATING SUCH. ANY SHOP DRAWING NOT CHECKED OR REMEWED BY THE FABRICATOR AND CONTRACTOR PRIOR TO BEING SUBMITTED TO THE ARCHITECT/ENGINEER FOR REVIEW MAY BE REJECTED AND RETURNED WITHOUT REVIEW.
- IN NO CASE SHALL REPRODUCTION OF THE CONTRACT DRAWINGS BE USED AS SHOP DRAWINGS.
- 4. DESIGN AND DETAILING SHALL BE PERFORMED USING RATIONAL ENGINEERING DESIGN PRACTICES AND BE BASED ON STANDARD PRACTICES IN ACCORDANCE WITH CONSTRUCTION DOCUMENTS AND THE BUILDING CODE AND ALL APPLICABLE
- 5. THE ENGINEER'S REVIEW IS TO VERIFY CONFORMANCE WITH DESIGN CONCEPT AND GENERAL COMPLIANCE WITH THE PERTINENT CONTRACT DOCUMENTS. THE ENGINEER'S REVIEW DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO REVIEW, CHECK, AND COORDINATE THE SHOP DRAWINGS PRIOR TO SUBMISSION. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS, DIMENSIONS, ETC.
- 6. AS A MINIMUM, SUBMIT THE FOLLOWING ITEMS FOR REVIEW:
 - REINFORCING STEEL IN REINFORCED CONCRETE AND MASONRY CONSTRUCTION INCLUDE DETAILS OF ALL BENT BARS, VERTICAL REINFORCING AND HORIZONTAL BOND BEAM REINFORCING. INCLUDE PLANS AND ELEVATIONS AS REQUIRED TO CLEARLY SHOW ALL REINFORCING.
- ALL CONCRETE CONSTRUCTION SUBMIT A CONCRETE MIX DESIGN FOR EACH CONCRETE STRENGTH. AS A MINIMUM, EACH DESIGN SHALL INCLUDE PROPORTIONS OF CEMENT, FINE AND COURSE AGGREGATES, AND WATER, GRADATION OF COMBINED AGGREGATES, AND CONCRETE COMPRESSIVE TEST RESULTS. CERTIFICATION SHALL BE FROM AN ACCEPTABLE TESTING LABORATORY.
- . STRUCTURAL STEEL IF STEEL CANOPY IS NOT PROVIDED BY U-HAUL, SUBMIT SHOP DRAWINGS AND CALCULATIONS SIGNED AND SEALED (CALCULATIONS ONLY) BY A QUALIFIED PROFESSIONAL ENGINEER, CALCULATIONS SHALL INCLUDE AS A MINIMUM, ALL LOADS, STRESSES, AND DEFLECTIONS ASSOCIATED WITH EACH MEMBER AND/OR

SHOP DRAWINGS / DEFERRED STRUCTURAL SUBMITTALS (con't)

- OTHER SUBMITTALS MAY BE REQUIRED PER THE SPECIFICATIONS OR THE SEPARATE NOTES CONTAINED HEREIN. 8. TEMPORARY OR PERMANENT SYSTEMS OR FRAMING MEMBERS THAT ARE NOT SPECIFICALLY DESIGNED, DETAILED, OR
- SPECIFIED IN THE CONTRACT DOCUMENTS BUT ARE REQUIRED TO COMPLETE THE FINISHED STRUCTURE, SHALL BE DESIGNED AND DETAILED BY OR UNDER THE DIRECTION OF A QUALIFIED PROFESSIONAL ENGINEER. ALL REQUESTED Submittals for these systems or framing members shall be signed and sealed by said qualified PROFESSIONAL ENGINEER.
- 9. ALL SIGNED AND SEALED SHOP DRAWINGS AND/OR CALCULATIONS THAT ARE REQUIRED TO BE SUBMITTED FOR REVIEW SHALL BE DONE BY OR UNDER THE DIRECTION OF A QUALIFIED PROFESSIONAL ENGINEER.
- 10. A QUALIFIED PROFESSIONAL ENGINEER IS A PROFESSIONAL ENGINEER WHO IS LEGALLY REGISTERED AND LICENSED TO PROMDE ENGINEERING SERVICES IN THE JURISDICTION IN WHICH THE PROJECT IS LOCATED AND WHO IS EXPERIENCED IN PROVIDING ENGINEERING SERVICES RELATED TO THE WORK SUBMITTED. SAID ENGINEER SHALL BE CAPABLE OF PERFORMING DESIGN AND DETAILING USING RATIONAL ENGINEERING DESIGN PRACTICES BASED ON STANDARD PRACTICES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, THE BUILDING CODE, AND ALL APPLICABLE BUILDING CODE AMENDMENTS.

FOUNDATION DESIGN

- 1. ASSUMED GEOTECHNICAL INFORMATION: ALLOWABLE SOIL PRESSURE
- 2. FOOTINGS SHALL BEAR AT LEAST XX" BELOW LOWEST ADJACENT FINISHED GRADE. FOOTING DEPTHS/ELEVATIONS SHOWN ON THE DRAWINGS ARE MINIMUM AND FOR GUIDANCE ONLY; THE ACTUAL ELEVATIONS OF FOOTINGS MUST BE ESTABLISHED

1,500 PSF

- 3. ALL FOOTINGS SHALL BEAR ON UNDISTURBED, FIRM NATURAL SOIL OR COMPACTED FILL CAPABLE OF SUPPORTING THE DESIGN BEARING PRESSURE NOTED HEREIN.
- 4. ALL SOIL SURROUNDING AND BENEATH ALL FOOTINGS, SLABS, ETC. SHALL BE PROTECTED AGAINST FROST OR FREEZING DURING CONSTRUCTION.
- 5. CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR FOUNDATION DESIGN WHEN A GEOTECHNICAL REPORT IS NOT PROVIDED TO THE ARCHITECT AND/OR ENGINEER.
- CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR ONSITE SOIL CONDITIONS.
- 7. THE CONTRACTOR SHOULD EMPLOY A PROFESSIONAL GEOTECHNICAL ENGINEER TO INSPECT THE FOUNDATIONS AND BEARING LEVELS AND VERIFY THAT THE MATERIAL ON WHICH THE FOUNDATIONS WILL BEAR HAS AT LEAST THE ABOVE NOTED CAPACITY AND GIVE RECOMMENDATIONS FOR SUBGRADE PREPARATION. STRICTLY FOLLOW GEOTECHNICAL ENGINEER'S RECOMMENDATIONS FOR SUBBASE AND FOOTING BEARING MATERIAL AND PREPARATION AS REQUIRED.
- 8. IMMEDIATELY NOTIFY THE ENGINEER AND/OR ARCHITECT IF UNSUITABLE SOIL OR SOIL CONDITIONS AT VARIANCE WITH THE GEOTECHNICAL REPORT IS DISCOVERED AT THE FOOTING ELEVATIONS SPECIFIED.
- 9. THE EXISTENCE OF UNDERGROUND STRUCTURES AND/OR UTILITIES IS NOT KNOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE OWNER OR NECESSARY AUTHORITIES THE LOCATIONS OF ALL EXISTING UNDERGROUND STRUCTURES AND/OR UTILITIES.
- 10. WHERE FOOTINGS ARE IN CLOSE PROXIMITY OF SEWERS, DRAINS, CONDUITS, PIPES, ETC., THE BOTTOM OF FOOTING SHALL BE SET AT OR BELOW THE INVERT ELEVATION OF THE ADJACENT ELEMENT. CAST-IN-PLACE CONCRETE
- 1. ALL REINFORCED CONCRETE WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE BUILDING CODE AND APPLICABLE AMENDMENTS AND THE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318) OF THE AMERICAN
- 2. ALL REINFORCED CONCRETE MIX DESIGNS SHALL BE PERFORMED IN ACCORDANCE WITH THE BUILDING CODE AND APPLICABLE AMENDMENTS AND THE "SPECIFICATIONS FOR STRUCTURAL CONCRETE" (ACI 301) OF THE AMERICAN CONCRETE

- 3. ALL REINFORCING STEEL FABRICATION AND PLACEMENT SHALL BE PERFORMED IN ACCORDANCE WITH THE BUILDING CODE AND APPLICABLE AMENDMENTS AND THE "MANUAL OF STANDARD PRACTICE" (CRSI MSP-1) OF THE CONCRETE REINFORCING STEEL INSTITUTE AND THE "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" (ACI 301) AND
- "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT" (ACI 315) OF THE AMERICAN CONCRETE INSTITUTE. 4. ALL CONCRETE SHALL BE NORMAL WEIGHT CONCRETE (144 PCF+) CONFORMING TO ASTM C94 WITH ALL CEMENT CONFORMING TO ASTM C150, TYPE I OR IL MAXIMUM ADDREGATE SIZE SHALL BE 1-1/2" FOR FOOTINGS AND 3/4" FOR WALLS AND SLABS, CONFORMING TO ASTM C33.
- 5. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (I'c) AT 28 DAYS, SLUMP AND MAXIMUM WATER/CEMENT RATIO REQUIREMENTS:
- ALL CONCRETE 3000 PSI 2" - 4" SLUMP* W/C RATIO = 58 6. OBTAIN EACH TYPE OF CEMENT OF THE SAME BRAND FROM THE SAME MANUFACTURER'S PLANT, EACH AGGREGATE FROM ONE SOURCE, AND EACH ADMIXTURE FROM THE SAME MANUFACTURER.
- 7. ALL CONCRETE EXPOSED TO WEATHER SHALL HAVE ENTRAINED AIR IN ACCORDANCE WITH SECTION 1904 OF THE IBC.
- FOR AIR ENTRAINED CONCRETE MAXIMUM W/C RATIO = .44
- 9. ALL GROUT SHALL BE NONMETALLIC SHRINKAGE-RESISTANT GROUT PROVIDED BY A MANUFACTURER APPROVED IN WRITING BY THE STRUCTURAL ENGINEER AND INSTALLED AND MIXED PER THE MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS. ALL GROUT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (f'c) AT 28 DAYS EQUAL TO 5000 PSI.

ASTM A615, GRADE 60

- 10. REINFORCEMENT: DEFORMED BARS GALVANIZED REINFORCEMENT
- ASTM A767, CLASS II REINFORCING STEEL SHALL HAVE THE FOLLOWING MINIMUM CLEAR CONCRETE COVER UNLESS OTHERWISE NOTED: CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH 3"
- CONCRETE SURFACES IN CONTACT WITH SOIL OR EXPOSED TO EARTH OR WEATHER (#6 BARS OR LARGER) 1-1/2" (#5 BARS OR SMALLER) COLUMN TIES OR SPIRALS AND BEAM STIRRUPS 1-1/2
- . CONCRETE SURFACES NOT IN CONTACT WITH SOIL OR EXPOSED TO WEATHER INCLUDING WALLS AND TOP AND BOTTOM OF SLABS
- 12. WELDING OF REINFORCING BARS IS PROHIBITED WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER. IF WELDING OF REINFORCING IS NECESSARY, IT SHALL BE PERFORMED IN ACCORDANCE WITH AWS D1.4. REINFORCING STEEL FOR WELDED ASSEMBLIES SHALL CONFORM TO ASTM A706 SPECIFICATIONS.
- 13. SPLICED BARS SHALL HAVE A MINIMUM LAP OF CLASS B TENSION LAP SPLICE PER TYPICAL DETAILS.
- 14. GALVANIZED REINFORCING SHALL BE TREATED TO PREVENT REDUCTION OF BOND. OTHERWISE PROVIDE SPLICE LENGTHES EQUIVILANT TO EPOXY COATED REINFORCING. 15. ALL REINFORCING STEEL INDICATED AS BEING CONTINUOUS (CONT.) ON THE PLANS AND DETAILS SHALL BE LAPPED WITH
- A CLASS B SPLICE OR 36 x BAR DIAMETER (WHICHEVER IS GREATER) UNLESS OTHERWISE NOTED.
- 16. REINFORCING BARS TO EXTEND 12 BAR DIAMETERS BUT NOT LESS THAN 12" BEYOND BAR BENDS, UNLESS OTHERWISE
- 17. PROVIDE ADDITIONAL BARS AS SHOWN IN TYPICAL DETAILS.
- 16. ALL REINFORCING STEEL SHALL BE SET AND TIED IN PLACE PRIOR TO POURING OF CONCRETE. NO BARS PARTIALLY EMBEDDED IN HARDENED CONCRETE SHALL BE FIELD BENT UNLESS SPECIFICALLY SO DETAILED OR APPROVED BY THE
- 19. PROVIDE CORROSION RESISTANT ACCESSORIES SUCH AS PLASTIC COATED (NOT PLASTIC TIPPED) OR STAINLESS STEEL CHAIRS IN ALL EXPOSED CONCRETE CONSTRUCTION. PRECAST CONCRETE CHAIRS OR SAND PLATE CHAIRS SHALL BE USED FOR THE SUPPORT OF REINFORCING ON GRADE, CONCRETE BLOCK OR CLAY MASONRY BRICK ARE NOT PERMITTED.
- 20. ALL EXPOSED CORNERS OF CONCRETE TO HAVE 3/4" MINIMUM CHAMFER UNLESS OTHERWISE NOTED. 21. CONCRETE SHALL BE DISCHARGED AT THE SITE WITHIN 1-1/2 HOURS AFTER WATER HAS BEEN ADDED TO THE CEMENT
- 22. THE CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL CONCRETE OPENINGS AND/OR PENETRATIONS REQUIRED FOR

AND AGGREGATE. ADDITION OF WATER TO THE MIX AT THE PROJECT SITE IS STRUCTLY PROHIBITED. ALL WATER MUST BE

- OTHER TRADES PRIOR TO PLACING CONCRETE. 23. SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR REGLETS, PIPE SLEEVES, CONDUITS OR OTHER ITEMS TO BE EMBEDDED OR PASSED THROUGH CONCRETE.
- CONCRETE/MASONRY ANCHORS EXPANSION BOLTS INTO CONCRETE AND CONCRETE MASONRY UNITS SHALL BE KWIK BOLT TZ (ICC ESR-1917) AS
- MANUFACTURED BY THE HILTI CORP. OR AN APPROVED EQUIVALENT IN STRENGTH AND EMBEDMENT. ADHESIVE ANCHORS SHALL BE HIT-RE 500-SD (ICC ESR-2322) INTO CONCRETE AND HIT HY 150 MAX (ESR-1967) INTO
- MASONRY AS MANUFACTURED BY THE HILTI CORP. OR AN APPROVED EQUIVALENT IN STRENGTH AND EMBEDMENT.
- ALL ANCHORS SHALL BE INSTALLED WITH STEEL WASHERS.
- 4. WHEN USING ADHESIVE ANCHORING SYSTEMS THE MANUFACTURER SHALL SUPPLY THE ANCHOR AND ADHESIVE, UNLESS OTHERWISE NOTED.
- ALL ALTERNATE PRODUCTS SHALL HAVE A CURRENT ICC EVALUATION REPORT.
- ANCHORS INSTALLED INTO MASONRY UNITS SHALL BE INTO FULLY GROUTED CELLS UNLESS OTHERWISE NOTED, IF GROUTED CELLS ARE NOT ENCOUNTERED, BREAK INTO CELL AND GROUT SOLID 8".
- ALL ANCHORS SHALL BE APPROVED FOR USE WITH CRACKED CONCRETE AND CONFORM TO CURRENT ICC ES REPORT.
- (ICC-ES AC193 FOR MECHANICAL ANCHORS AND ICC-ES AC308 FOR ADHESIVE ANCHORS).
- B. INSTALL ALL ANCHORS IN STRICT ACCORDANCE WITH ALL APPLICABLE ICC-ES AND BUILDING CODE REQUIREMENTS. ALL ANCHOR SPACING, EMBEDMENT, EDGE DISTANCE, AND INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS. REFER TO SECTIONS AND DETAILS ON THE DRAWINGS FOR ADDITIONAL INFORMATION.
- 9. ALL PERSONNEL INSTALLING MECHANICAL/ADHESIVE ANCHORS SHALL BE TRAINED BY THE PRODUCT MANUFACTURER ON PROPER INSTALLATION TECHNIQUES. TRAINING DOCUMENTATION FROM THE MANUFACTURER SHALL BE AVAILABLE UPON

STRUCTURAL STEEL

- 1. ALL STRUCTURAL STEEL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE BUILDING CODE AND APPLICABLE AMENDMENTS AND WITH THE "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" (1989 EDITION) OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION.
- 2. ALL STRUCTURAL STEEL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE BUILDING CODE AND APPLICABLE AMENDMENTS AND WITH THE 13TH EDITION OF THE "STEEL CONSTRUCTION MANUAL" OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION.

ASTM A36

ASTM A123

ASTM A153

ASTM A500, GRADE B

ASTM A53 TYPE E, GR. B

- 3. GRADE OF STEEL
 - OTHER SHAPES, PLATE, AND BARS HOLLOW STRUCTURAL SHAPES (HSS)
 - STEEL PIPE GALVANIZED STRUCTURAL STEEL
 - STRUCTURAL SHAPES AND RODS BOLTS, FASTENERS AND HARDWARE
 - ANCHOR RODS THREADED ROD

CONNECTIONS SHALL HAVE 2 BOLTS MINIMUM, UNLESS OTHERWISE NOTED.

- ASTM F1554, GR. 36 ASTM A36 ALL FIELD CONNECTIONS SHALL USE BOLTS, UNLESS OTHERWISE NOTED. ALL SHOP AND FIELD INSTALLED BOLTS SHALL BE 3/4" DIA ASTM A325 TYPE N BOLTS IN STANDARD HOLES, AND SNUG TIGHT, UNLESS OTHERWISE NOTED. ALL BOLTED
- 5. HARDENED WASHERS CONFORMING TO ASTM F436 SHALL BE USED AT A325 BOLTS AND A490 BOLTS USED IN FRICTION CONNECTION AND OVERSIZED AND SHORT SLOTTED HOLES. 5/16"THICK PLATE WASHERS OF STRUCTURAL GRADE. MATERIAL SHALL BE USED AT LONG SLOTTED HOLES. WASHERS SHALL HAVE A SIZE SUFFICIENT TO COMPLETELY COVER THE SLOT AFTER INSTALLATION.
- 6. ALL MODIFICATIONS REQUIRED FOR OTHER TRADES SHALL BE SHOWN ON THE SHOP DRAWINGS, AND MADE DURING SHOP FABRICATION. FIELD BURNING OF STRUCTURAL STEEL IS PROHIBITED.

- 7. ALL WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1 "STRUCTURAL WELDING CODE-STEEL". WELDING FILLER METAL SHALL BE AWS A5.1 OR A5.5 E70XX LOW HYDROGEN ELECTRODES, WELDERS SHALL BE AWS CERTIFIED, SUBMIT COPY OF ALL CERTIFICATIONS TO THE ENGINEER, SURFACES TO BE WELDED SHALL BE WIRE BRUSHED CLEAN BEFORE WELDING.
- ALL EXTERIOR METAL FABRICATIONS EXPOSED TO WEATHER SHALL BE GALVANIZED, UNLESS OTHERWISE NOTED.

APPLICABLE AMENOMENTS FOR THE FOLLOWING ITEMS OR AS REQUIRED BY THE BUILDING OFFICIAL:

- SPECIAL STRUCTURAL INSPECTIONS 1. THE OWNER WILL HIRE AN INSPECTION AGENCY OR RETAIN THE ENGINEER OF RECORD TO PERFORM ALL REQUIRED
- SPECIAL INSPECTIONS AND TEST. 2. SPECIAL STRUCTURAL INSPECTIONS SHALL BE CONDUCTED AND DOCUMENTED AS PER CHAPTER 17 OF THE IBC AND ALL
- STEEL CONSTRUCTION STEEL CONSTRUCTION MINIMUM SPECIAL INSPECTION: GENERAL CONFORMANCE AND BOLTS ONLY; ALL WELDING TO BE PRE-QUALIFIED SHOP WELDS WHERE POSSIBLE, PERFORMED IN A SHOP AND BY A WELDER THAT IS
- AWS CERTIFIED. ALL STEEL FABRICATORS THAT ARE NOT PRE-APPROVED BY THE BUILDING OFFICIAL SHALL BE INSPECTED IN ACCORDANCE WITH SECTION 1704.2 OF THE IBC.
- CONCRETE CONSTRUCTION ANCHOR BOLTS IN PRE-DRILLED HOLES IN CONCRETE OR IN MASONRY SITE SOIL CONDITIONS (AS REQUIRED; SEE FOUNDATION DESIGN NOTES)
- 3. ALL SPECIAL INSPECTIONS SHALL BE CONDUCTED BY A QUALIFIED SPECIAL, INSPECTOR AS DETERMINED BY THE BUILDING OFFICIAL AND/OR PERFORMED UNDER THE SUPERVISION OF THE ENGINEER OF RECORD.
- 4. A STATEMENT OF SPECIAL STRUCTURAL INSPECTION IN ACCORDANCE WITH SECTION 1705 OF THE IBC SHALL BE SUBMITTED TO THE BUILDING OFFICIAL PRIOR TO BEGINNING OF ANY SPECIAL STRUCTURAL INSPECTIONS BY THE SPECIAL
- 5. SPECIAL STRUCTURAL INSPECTION REPORTS SHALL BE FURNISHED TO THE BUILDING OFFICIAL AND THE ENGINEER OF RECORD IN ACCORDANCE WITH SECTION 1704 OF THE IBC.

DESIGN CRITERIA

- 1. ALL STRUCTURAL WORK SHALL CONFORM TO THE STRUCTURAL DRAWINGS AND SPECIFICATIONS AND MEET THE REQUIREMENTS OF THE 200X INTERNATIONAL BUILDING CODE AND THE APPLICABLE BUILDING CODE AMENDMENTS. THE ARCHITECTURAL DRAWINGS SHALL GOVERN ALL DIMENSIONS.
- OCCUPANCY CATEGORY:
- ROOF LINE LOADS: BASIC ROOF LIVE LOAD
- SNOW LOADS: GROUND SNOW LOAD (Pg)
- FLAT ROOF SNOW LOAD (PI) SNOW EXPOSURE FACTOR, Ce. SNOW LOAD IMPORTANCE FACTOR, In THERMAL FACTOR, Ct.
- BASIC WIND SPEED (3-SECOND GUST) XXX MPH
- WIND IMPORTANCE FACTOR, In WIND EXPOSURE COMPONENTS AND CLADOING PRESSURE 14.5 PSF
- EARTHQUAKE LOADS: SEISMIC IMPORTANCE FACTOR, le MAPPED SPECTRAL RESPONSE ACCELERATION, St
- SITE CLASS (ASSUMED) SPECTRAL RESPONSE COEFFICIENT, SD₈ SPECTRAL RESPONSE COEFFICIENT, SD1 SEISMIC DESIGN CATEGORY

ANALYSIS PROCEDURE USED

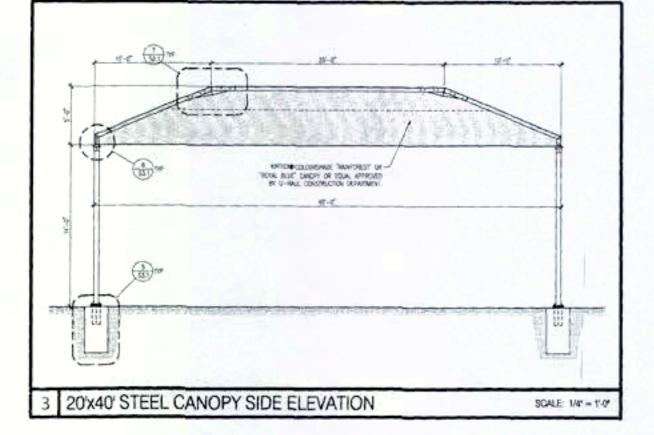
MAPPED SPECTRAL RESPONSE ACCELERATION, S1

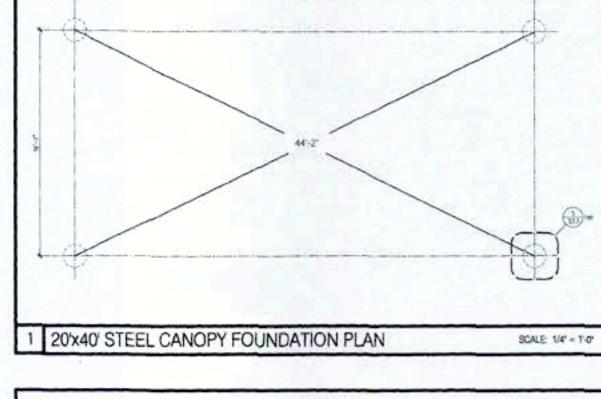
- BASIC SEISMIC-FORCE-RESISTING SYSTEM SEISMIC RESPONSE COEFFICIENT, Co. RESPONSE MODIFICATION FACTOR, R DESIGN BASE SHEAR, V
- X.XX %g ORMSW XXX KIP EQUIV. LATERAL FORCE

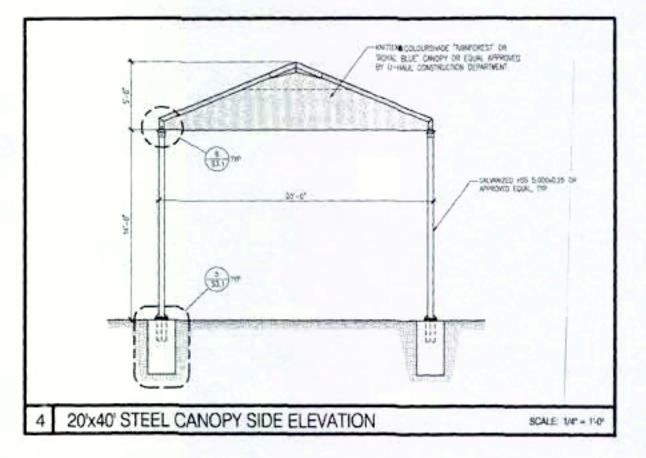
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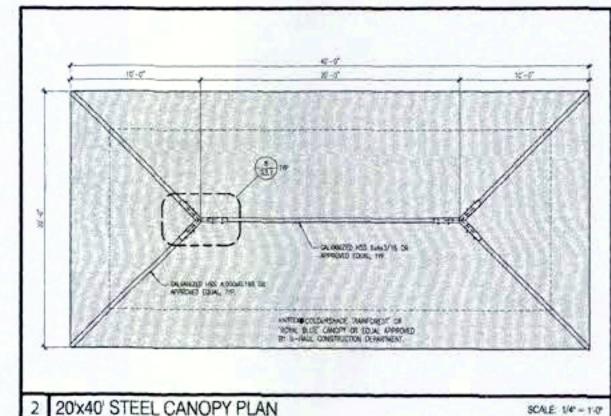
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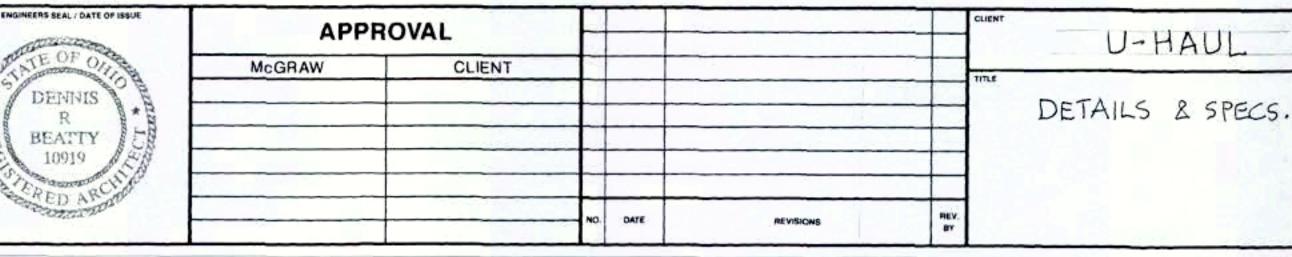




SCALE

USTOMER DWG. NO.

4-17-25



DENNIS R. BEATTY, Licente #10019 Expiration Date: 12/31/2025