Mercer County Athletics Improvements Harrodsburg, Kentucky

for the

Mercer County Board of Education 1101 Moberly Rd. Harrodsburg, Kentucky 40330 p 859.733.7000

BG # 22-282 RTA # 2203

rosstarrant architects

PROJECT SITE ADDRESS: enhancing education through great design Phase 1: 1124 Moberly Rd, Harrodsburg, Kentucky 40330 Phase 2: 1101 Moberly Rd, STRUCTURAL DESIGN GROUP, INC. Harrodsburg, Kentucky 40330 STRUCTURAL ENGINEER: 220 Great Circle Road, Suite 106 Nashville, Tennessee 37228 VICINITY MAP p 615.255.5537 CMTA, INC. M.E.P. ENGINEER: 220 Lexington Green Circle, Suite 600 Lexington, Kentucky 40503 p 859.253.0892 CALVERT INDEPENDENT HARDWARE SPECIFICATIONS, LLC HARDWARE CONSULTANT: 307 Oakwood Circle Vine Grove, Kentucky 40175 p 502.930.2039 SITE PROJECT VICINITY MAP MERCER COUNTY



101 old lafayette avenue lexington, kentucky 40502 p 859.254.4018 www.rosstarrant.com

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LEGEND

- = PROPERTY CORNER FOUND AS NOTED = SET 5/8" IRON BAR W/ CAP "LS _____"
- = SET MAG NAIL
- = PROPERTY BOUNDARY LINE = ADJOINERS APPR. BOUNDARY
- _____ ___ ___ = BUILDING SETBACK LINE

PROPERTY OWNER BOARD OF EDUCATION OF MERCER COUNTY MERCER COUNTY SCHOOL DISTRICT FINANCE CORPORATION 530 PERRYVILLE STREET

PROPERTY LOCATION 1124 MOBERLY ROAD HARRODSBURG, KY 40330 DB 312, PG 161 PC C, SL 60

HARRODSBURG, KY 40330

> UTILITY COMPANIES COMMUNICATIONS: AT&T DISTRIBUTION TIMEWARNER

<u>GAS:</u> ATMOS GAS

ELECTRIC: KENTUCKY UTILITIES

<u>FIBER:</u> BLUEGRASS NETWORK



Dial 811 for Buried Line & Cable Locations

CME PROPERTIES INC

1060 INDUSTRY ROAD

DB 372, PG 130

PVA #046.00-00065.00

ZONED: I-2

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UNDERGROUND UTILITIES SHOWN ON THIS "TOPOGRAPHICAL SITE BOUNDARY SURVEY" WERE MARKED IN THE FIELD (2-25-2022) BY THE UTILITY PROTECTION CENTER "KENTUCKY 811 CALL BEFORE YOU DIG"; (TOLL FREE PHONE NO. 1-800-752-6007) PRINT NO. 2202220140. THIS NUMBER WAS ESTABLISHED TO PROVIDE ACCURATE LOCATION OF EXISTING UNDERGROUND UTILITIES (I.E. CABLES, WATER, ELECTRIC WIRES, & GAS)

SURVEY NOTES

SURVEY PERFORMED BY: THOROUGHBRED

ENGINEERING EQUIPMENT: TRIMBLE R10 GNSS RECEIVER QUANTUM F90+ DRONE

COORDINATE SYSTEM KY NORTH BASE NAD 83 VERTICAL BASED ON NAVD88

CERTIFICATE OF ACCURACY

I DO HEREBY CERTIFY THAT THE PLAT SHOWN AND DESCRIBED HEREON IS A TRUE AND CORRECT SURVEY TO THE ACCURACY REQUIRED BY THE MERCER COUNTY PLANNING AND ZONING COMMISSION AND AN URBAN CLASS SURVEY THE MONUMENTS ARE AS SHOWN. METHOD OF SURVEY WAS CONDUCTED BY GPS "RTK" (REAL TIME KINEMATIC) POSITIONAL ACCURACY IS LESS THAN ±0.10'+200 PPM. THE HORIZONTAL DATUM IS NAD 1983. THE BEARINGS SHOWN HEREON ARE BASED ON THE KENTUCKY SOUTH ZONE STATE PLANE COORDINATE SYSTEM DERIVED FROM A GPS SURVEY. THE DIRECTIONS AND DISTANCES SHOWN ON THE PLAT ARE NOT BASED ON AN ADJUSTED SURVEY. PROPERTY CORNERS ARE FOUND AS NOTED ON THE PLAN.

DATE

SURVEYOR:

KEITH G. WINSTEAD, PLS 3870 THOROUGHBRED PO BOX 481 LEXINGTON, KENTUCKY 40588 PHONE: (859) 785-0383 DATE OF SURVEY - 2022-02-26

- SURVEYOR NOTES
- 1) ANY FURTHER DIVISION OF THE PROPERTIES SHOWN HEREON WILL REQUIRE REVIEW AND APPROVAL OF MERCER COUNTY PLANNING COMMISSION.
- 2) PROPERTY IS SUBJECT TO ANY EASEMENTS OF RECORD NOT SHOWN HEREON.
- 3) FLOOD MAP # 21167C0140C EFFECTIVE 9/17/2008. SITE IS LOCATED IN ZONE X, AREA AT MINIMAL FLOOD HAZARD RISK.
- UTILITIES AS SHOWN ON THIS PLAN WERE FIELD MARKED BY KENTUCKY811 AND DRAWN FROM UTILITY PLANS PROVIDED. LOCATIONS ARE APPROXIMATE.
- 5) CONTRACTOR MUST CALL KENTUCKY811 AND ANY UTILITIES FOR FIELD MARKING PRIOR TO ANY EXCAVATION.

ADDITIONAL NOTE

PROPERTY OWNERSHIP INFORMATION PROVIDED HEREIN IS BASED ON INFORMATION OBTAINED FROM READILY AVAILABLE SOURCES (I.E.; MERCER COUNTY CLERK {Deed Book 312, Pg. 161_; Plat Cabinet C. Slide 60}, MERCER COUNTY PVA, ETC.). THEREFORE, NO WARRANTY IS PROVIDED REGARDING THE ACCURACY OF OWNERSHIP INFORMATION OR THE <u>APPROXIMATE</u> GRAPHICAL REPRESENTATIONS OF SUCH (ADJOINING PROPERTY LINES INCLUDING EASEMENTS ETC).





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	M.E,&P Engineer: CMTA, Inc. 220 Lexington Green Circle Suite 600 Lexington, KY 40503 p 859.253.0892 Structural Engineer: Structural Design Group, Inc. 220 Great Circle Rd. Suite 106 Nashville, TN 37228 p 615.255.5537 BG# Project No: 2203 Drawn By: JKB/ELM Rev'd By: MBM/LMR SHEET RELEASE 1
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MAY BE ON. SEE	1-SDO. SITE EPSC PLAN DATE ISSUED:

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GENERAL SITE NOTES

- . THE SITE PLANS WERE PREPARED BASED UPON TOPOGRAPHIC SURVEYS BY S&ME, 2020 LIBERTY ROAD SUITE 105, LEXINGTON, KY 40505 REFER TO SITE SURVEY SHEETS.
- 2. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING SITE FEATURES AND CONDITIONS. REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO THE START OF CONSTRUCTION.
- 3. THE ARCHITECT AND ARCHITECT'S CONSULTANTS SHALL HAVE NO RESPONSIBILITY FOR THE DISCOVERY, PRESENCE, HANDLING, REMOVAL OR DISPOSAL OF, OR EXPOSURE OF PERSONS TO HAZARDOUS MATERIALS IN ANY FORM AT THE PROJECT SITE, INCLUDING BUT NOT LIMITED TO ASBESTOS, ASBESTOS PRODUCTS, POLYCHLORINATED BIPHENYL (PCB) OR OTHER TOXIC SUBSTANCES.
- 4. THE CONTRACTOR SHALL USE EXTREME CARE IN WORKING AROUND EXISTING OVERHEAD AND UNDERGROUND UTILITIES. MEASURES SHOULD BE TAKEN TO PROTECT ALL UTILITIES FROM DAMAGE DURING CONSTRUCTION.
- 5. SEE EROSION POLLUTION AND SEDIMENT CONTROL PLAN ON SD0.1 FOR RECOMMENDED BEST MANAGEMENT PRACTICES INFORMATION AND SEDIMENT CONTROLS.

SITE GRADING NOTES

- THE CONTRACTOR SHALL VERIFY LOCATIONS AND ACTUAL DEPTHS OF ALL EXISTING STORM DRAINS, GAS MAINS, WATER MAINS, AND PIPES TO ALL NEW CONNECTIONS AND CROSSINGS. CONTRACTOR SHALL PAY PARTICULAR ATTENTION TO AREAS WHERE CONSTRUCTION OR GRADING MAY INTERFERE WITH SUCH LINES.
- ANY DISCREPANCIES BETWEEN THIS GRADING PLAN AND ACTUAL FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IN WRITING PRIOR TO EXCAVATION, GRADING, TRENCHING, OR OTHER CONSTRUCTION OF ANY SORT. FAILURE TO NOTIFY THE ARCHITECT IN WRITING PRIOR TO COMMENCEMENT OF EXCAVATION, GRADING, TRENCHING, OR OTHER CONSTRUCTION SHALL IMPLY THE CONTRACTOR'S VERIFICATION OF AND ACCEPTANCE OF EXISTING SITE CONDITIONS. SAID FAILURE TO NOTIFY THE ARCHITECT IN WRITING SHALL IDENTIFY AND HOLD HARMLESS THE OWNER FROM ANY ADDITIONAL COSTS INCURRED BY THE CONTRACTOR DUE TO DISCREPANCIES NOT REPORTED WHICH COULD HAVE BEEN DETECTED BY PRUDENT AND REASONABLE OBSERVATION AND VERIFICATION BY THE CONTRACTOR.
- ALL IMPERVIOUS SURFACES SHALL BE GRADED AND INSTALLED WITH A MINIMUM SLOPE OF ONE PERCENT (1%) AND A MAXIMUM SLOPE OF SEVEN PERCENT (7%)
- ALL PERVIOUS SURFACES SHALL BE GRADED AND INSTALLED WITH A MINIMUM SLOPE OF TWO PERCENT (2 %) AND A MAXIMUM SLOPE OF THIRTY-THREE PERCENT (33%) EXCEPT WHERE SHOWN.
- SLOPE PERVIOUS SURFACES MIN. 5 % AND IMPERVIOUS SURFACES MIN. 1% AWAY FROM BUILDING FOUNDATIONS.
- NOT ALLOW WATER TO POND IN CONSTRUCTION AREAS. RELOCATE ALL BURIED UTILITIES THAT ARE IMPACTED BY ANY EARTHWORK. RELOCATED UTILITY LOCATIONS ARE TO BE APPROVED BY THE ARCHITECT
- PRIOR TO STARTING WORK. PROTECT AREAS TO BE SEEDED AS FOLLOWS: A) DITCHES AND DRAINAGE SWALES ARE TO RECEIVE HIGH-VELOCITY EROSION-CONTROL BLANKETS. B) SLOPES 4:1 (H:V) OR GREATER ARE TO RECEIVE LONG- TERM EROSION-CONTROL BLANKETS.
- C) SLOPES BETWEEN 4:1 AND 6:1 (H:V) ARE TO RECEIVE SHORT-TERM EROSION CONTROL BLANKETS. D) SLOPES BELOW 6:1 (H:V) ARE TO RECEIVE STRAW MULCH PER THE SPECIFICATIONS. DO NOT USE HAY.
- ANY AREAS DISTURBED DURING CONSTRUCTION ARE TO BE RECONDITIONED, SEEDED AND MULCHED PER THE SPECIFICATIONS.
-). COMPACT SOIL TO NOT LESS THAN THE FOLLOWING PERCENTAGES OF THEIR STANDARD PROCTOR MAXIMUM DRY DENSITY AT PLUS OR MINUS TWO (2) PERCENT OF OPTIMUM MOISTURE CONTENT:
- A) UNDER FLOOR SLABS AND FOUNDATIONS ON STRUCTURAL FILL 98% B) PAVED AREAS AND WALKS - 95% C) LANDSCAPE AREAS OUTSIDE MASS FILL AREAS - 85%
- . ALL TREES THAT ARE IDENTIFIED BY THE ARCHITECT TO REMAIN, EITHER ON THE DRAWING OR IN THE FIELD, ARE TO BE PROTECTED IN ACCORDANCE WITH THE SPECIFICATIONS. ALL TREES LOCATED OUTSIDE OF AREAS IDENTIFIED TO BE RE-GRADED ARE TO BE PROTECTED IN ACCORDANCE WITH THE SPECIFICATIONS.
- 2. THE CONTRACTOR SHALL ENSURE THAT CONSTRUCTION DEBRIS AND SEDIMENT ARE REMOVED DAILY FROM SITE DRIVEWAYS, PARKING AREAS, WALKWAYS AND SURROUNDING ROADWAYS AND WALKWAYS.
- 3. EXCESS SATISFACTORY SOILS ARE TO BE DISPOSED OF ON-SITE IN A LOCATION IDENTIFIED BY THE OWNER. THESE SOILS ARE TO BE SPREAD AND COMPACTED IN ACCORDANCE WITH THE SPECIFICATIONS.
- 4. THE NEW PARKING, ROADS AND ROAD BASE ARE NOT DESIGNED TO ACCOMMODATE CONSTRUCTION TRAFFIC AND SHOULD NOT BE USED FOR SUCH UNLESS STABILIZED USING #2 CRUSHED STONE AND/OR GEO-GRID IN ADDITION TO THE PAVEMENT DESIGN SECTION SHOWN. IF THE CONTRACTOR WISHES TO USE THE NEW ROAD ALIGNMENTS DURING CONSTRUCTION, IT IS THE CONTRACTORS RESPONSIBILITY TO STABILIZE THE ROAD ALIGNMENT SUBGRADES AND PREVENT THEM FROM BEING DAMAGED DURING CONSTRUCTION.
- 5. THE CONTRACTOR SHALL INSTALL AND MAINTAIN A CRUSHED STONE ENTRY AND DRIVE TO REDUCE SOIL TRACKING.

SPOT ELEVATION LEGEND

FFE - FINISHED FLOOR ELEVATION







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DESIGN CRITERIA 1. Building Code: 2018 Kentucky Building Code and ASCE 7-10 1.1 Building Risk Category: III 2. Design Loads 2.1 Uniform Floor Live Loads (reduced per Building Code, UNO) General Ground Floor Areas 100 psf 2.2 Roof Loads 20 psf (reduced per Bldg. Code) 2.2.1 Uniform Roof Live Load 2.2.2 Snow Loads: Ground Snow = 15 psf (with drift loads per Code) Terrain Category = C Snow Exposure Factor, Ce = 1.0Snow Load Importance Factor, I = 1.1Slope Factor. Cs = 1.0Thermal Factor: Heated Spaces. Ct = 1.0Unheated Spaces, Ct = 1.2Flat-roof Snow Load: Heated Spaces, Pf = 16.6 psfUnheated Spaces. Pf = 18.9 psf2.3 Wind Loads Basic Wind Speed V(ult)=120 mph; V(asd)= 93 mph Wind Exposure = CInternal Pressure Coefficient = +/-0.18 (Enclosed Building) Directionality Factor, Kd = 0.852.4 Earthquake Loads Seismic Importance Factor, I = 1.25DAMapped Spectral Response Accelerations, Ss and S1 = 0.182 and 0.098Site Class: C Spectral Response Coefficients, Sds and Sd1 = 0.16 and 0.104 Seismic Design Category: B Basic Seismic-Force-Resisting System: Ordinary Reinforced Masonry Shearwalls **GENERAL** 1. Reference to standards or specifications of technical societies, organizations, or associations means the standard or specification referenced by the governing Building Code shown on the Drawings, unless specifically noted otherwise. 2. Material, workmanship, and design shall conform to the referenced Building Code. 3. For dimensions not shown in the Structural Drawings, see the Architectural Drawings. 4. Contractor responsibilities include, but are not limited to, the following: 4.1 Coordinate the Structural Documents with the Architectural, Mechanical, Electrical, Plumbing, and Civil Documents. Architect/Structural Engineer shall be notified of any discrepancy or omission. 4.2 Coordinate Structural Documents with Architectural and MPE Documents for location and quantity of miscellaneous framing for items such as roof drains, suspended or supported mechanical units, window washing davits, etc. Refer to Architectural and MPE Documents for additional miscellaneous structural elements that may not appear in the Structural Documents. 4.3 Equipment/Framing Verification 4.3.1 Mechanical Equipment: Submit actual weights of equipment to be used for review at least 3 week's prior to fabrication and construction. Coordinate opening sizes and locations with Mechanical Contractor. 4.3.2 Miscellaneous Framing: Verify framing shown on the Structural Drawings for mechanical equipment, Owner-furnished items, partitions, etc. is consistent with the requirements of such items. 4.4 The structure is stable only in its completed form. Temporary supports required for stability during all intermediate stages of construction shall be designed, furnished, and installed by the Contractor. 4.5 Contractor has sole responsibility for jobsite safety and complying with all health and safety precautions as required by any regulatory agency. In performing construction observation visits to the jobsite, the Structural Engineer will have no control over, nor responsibility for, the Contractor's means, methods, sequences, techniques, or Procedures in performing the work. 4.6 Contractor is responsible for locating concrete reinforcement prior to installation of post-installed anchors, through bolts, or other post-installed items in concrete. Existing reinforcement including post-tensioning tendons shall not be cut or otherwise damaged while installing post-installed anchors. 4.7 Contractor shall visit the project site prior to placing a bid to perform any structural repair work in order to observe the existing conditions of the structure. 4.8 Contractor shall coordinate all structural repair work with all trades and existing conditions and notify the structural engineer of any conflicts before starting related work. Related work can start once an approved solution has been issued. 5. Existing and Unforeseen Conditions 5.1 Contractor shall field verify all existing conditions, elevations, and site conditions prior to construction and fabrication. Contractor shall immediately notify Structural Engineer of any existing conditions that are in conflict with the Structural Documents. 5.2 Shop drawing submittals shall be based on field verified dimensions and conditions only. Contractor shall clearly show actual field dimensions on shop drawings.

STRUCTURAL NOTES

THE STRUCTURAL NOTES DEFINE GENERAL DESIGN AND MATERIAL REQUIREMENTS AND ARE INTENDED TO SUPPLEMENT, BUT NOT REPLACE, THE PROJECT SPECIFICATIONS

SUBMITTALS

- 1. Shop Drawings and Submittals
 - 1.1 Reproduction of Structural Drawings for shop drawings is not permitted.
 - 1.2 Electronic drawing files will not be provided to the Contractor.
 - 1.3 Electronic drawing files will not be provided to the Contractor without a signed release form agreeing to indemnify, defend, and hold harmless SDG against all claims, liabilities, costs, and expenses out of any use, misuse, reuse, misrepresentation, or modification of the files.
 - 1.4 Review of shop drawings will be for conformance with the Construction Documents regarding arrangement and sizes of members and the Contractor's interpretation of the design loads, if applicable, and Construction Document details. Such review shall not relieve the Contractor of the full responsibility to comply with the Construction Documents.
- 2. Submittals
 - 2.1 The Structural Quality Assurance Plan and Specifications identify the required submittals. Prior to (or with) the first submittal, Contractor shall submit a list of all required submittals for Engineer's review.
- 3. Deferred Submittals
 - 3.1 Deferred Submittals include those portions of the project that are furnished by the Contractor and designed by someone other than the Engineer of Record and are submitted at the time of the application. Deferred Submittals shall be submitted to the Building Official prior to fabrication and installation.
 - 3.2 Submittal documents for Deferred Submittals:
 - 3.2.1 Shall be included in the Contractor's scope of services and shall be sealed by an Engineer licensed in the project state. Design of Deferred Submittals shall be in accordance with the governing Building Code indicated above.
 - 3.2.2 Shall be submitted to the registered design professional in responsible charge who shall review them and forward to the Building Official with a notation indicating the deferred submittal documents have been reviewed and that they have been found in general conformance with the design of the building. Deferred submittal items shall not be installed until the design and submittal documents have been approved by the Building Official.
- 3.3 The following shall be considered Deferred Submittals: Shop-Fabricated Wood Trusses

FC	UNDATIO	<u>N</u>
	Geot Repo 1.1	<pre>icechnical Report: prepared by Consulting Services, Inc. ort No. LX200140, Dated February 5, 2021 It is recommended that the Contractor become familiar with the subsurface conditions that will be encountered and obtain a copy of the geotechnical report and any supplemental reports. The report(s) may be included as a reference document within the construction documents. Otherwise the Contractor should contact the Owner to obtain a copy of the report(s).</pre>
2.	Buil	ding Pad Preparation
	2.1	Strip vegetation and topsoil.
	2.2	Proofroll building areas with a minimum of two complete coverages of a loaded dump-truck or scraper in each of two perpendicular directions. Replace soft areas with compacted structural fill.
3.	Soil	Bearing Capacity: Isolated Footings 1500 psf Continuous Footings 1500 psf
	3.1	Footings shall not bear on rock. Remove rock, if any, for a depth of 2 feet below footing bearing elevation and immediately backfilled the same day with compacted soil to bottom of footing elevation.
RE		<u>EMENT</u>
1.	Reir	forcing Bars: ASTM A615, Grade 60
	1.1	Reinforcing bars are not to be welded.
	1.2	Reinforcing Bars to be welded: ASTM A706, Grade 60. Welding shall conform to AWS

- D1.4. Filler metals used to weld A/06 reinforcing steel shall be a minimum tensile strength of 80 ksi
- 2. Welded Wire Reinforcement (WWR): ASTM A1064, 8-in minimum side and end laps
- 3. Reinforcement Placement (UNO)

3.1	Concrete Reinforc	ement Clear Cover	
	Below Grade:	Unformed	3-in
		Formed	2-in

- 3.2 Masonry reinforcing steel: Place in the center of CMU cells, unless otherwise noted in Drawings.
- 4. Reinforcement Splices
 - 4.1 Reinforcement marked "Continuous" can be spliced at locations determined by Contractor. All other reinforcement shall be spliced only at locations shown or noted, unless approved in writing by Structural Engineer.
 - 4.2 Splice Lengths (UNO)
 - Concrete Reinforcement: Class B Tension Lap Masonry Reinforcement: See CMU Lap Splice Tables in Drawings

CAST-IN-PLACE CONCRETE

1. Concrete Properties

1.1 Normal Weight Structural Concrete

	28-Day, f'c (min)	w/cm Ratio (max.)	Entrained Air
Footings (Isolated/Continuous) Foundation Walls, Pedestals Slabs on Ground Mechanical Equipment Pads:	3,000 psi 3,000 psi 3,500 psi	 0.48	None Required None Required None Required
Interior Exterior All Other Concrete	3,000 psi 3,000 psi 5,000 psi	 0.40	None Required 5.0 +/- 1.5% 5.0 +/- 1.5%

Note: All concrete shall be assigned the exposure classes FO, SO, WO, and CO; except concrete in Aggressive Environment shall be assigned the exposure classes F3, S3, W1, and C2 (see ACI 318).

- 2. Construction Joint Locations: No horizontal construction joints are permitted except as shown on the Structural Drawings. Obtain written consent for additional joints.
 - Pipes or ducts shall not exceed one-third the slab or wall thickness unless specifically detailed. See mechanical and electrical drawings for location of sleeves, accessories, etc.
 - 3.1 Conduit shall not be placed within the slab on grade. Conduit shall be installed below the slab on grade within the granular subbase.
 - 4. Special Finishes: Refer to Architectural Drawings for molds, grooves, ornaments, clips or grounds required to be encased in concrete and for location of floor finishes and slab depressions.
 - 5. Defect Repair: Honey-combing, spalls, cracks, etc. shall be repaired. Extent of defective area to be determined by the Structural Engineer.
 - 6. Curing
 - 6.1 Begin curing procedures immediately following commencement of the finishing operation.
 - 6.2 Concrete shall be moist cured in accordance with ACI 308. See Specification for additional information.
 - 6.3 All concrete slabs that are to have exposed stained or polished concrete finish shall be wet cured a minimum of 7 days in strict accordance with ACI 301. The acceptable methods of wet curing are ponding, continuous fogging, continuous sprinkling; or application of mats or fabric kept continuously wet.

NON-SHRINK GROUTING

- 1. Non-shrink grout under steel base plates shall be non-metallic with minimum compressive strength of 5000 psi at 28 days.
- 2. Non-shrink grout used for patching, repair, and other specific applications shall be submitted for review and approval by engineer.

CONCRETE MASONRY

- 1. Specified Compressive Strength, f'm = 2,000 psi Minimum Net Area Compressive Strength of Masonry Unit: 2,000 psi (ASTM C90 w/ Type M or S Mortar)
 - Mortar: Walls below grade Type M Bearing walls Type M or S Partition walls Type N
- 3. Coarse Grout: 2,500 psi min. compressive strength conforming to ASTM C476.
 - 3.1 Grout solid bond beams, reinforced CMU cores, and CMU cores and wall cavities below grade.
 - 3.2 Masonry webs on each side of grouted cells shall be fully mortared. Exterior single wythe CMU walls shall have head joints fully mortared.
- 4. Horizontal Joint Reinforcement, UNO: Two (2) No. 9 gage longitudinal wires at 16-in vertically. Lap wire 6 inches minimum. Provide accessories for corners, intersections, etc. Use ladder type for walls with vertical reinforcing.
- Provide open bottom beam block units with 3-in deep minimum web openings at horizontal reinforcement locations not located over an opening. A minimum clear space of one bar diameter shall be provided between the reinforcing bars and the face of masonry units.
- 6. CMU has been designed assuming "running bond" placement. Do not use "stack bond" unless approved by Structural Engineer.
- 7. Submit written construction procedures prior to the start of masonry construction.

	STRUCTURAL INDEX
1S0.1	STRUCTURAL NOTES
1S0.2	STRUCTURAL NOTES CONTINUED
1S0.3	STRUCTURAL QUALITY ASSURANCE PLAN
1S1.1	FOUNDATION PLANS
1S1.2	FRAMING PLANS
1S1.3	FRAMING PLANS
1S2.1	FOUNDATION SECTIONS AND DETAILS
1S2.2	FOUNDATION SECTIONS AND DETAILS
1S3.1	MASONRY SECTIONS AND DETAILS
1S3.2	MASONRY SECTIONS AND DETAILS
1S4.1	ROOF FRAMING SECTIONS AND DETAILS



STRUCTURAL STEEL

1. Steel Shapes

- 1.1 W-Shapes: ASTM A992 (Grade 50)
- 1.2 Angles, Channels, Plates, UNO: ASTM A36
- 1.3 Square/Rectangular/Round Hollow Structural Sections (HSS): ASTM A500, Grade B
- 1.4 Pipe Structural Sections: ASTM A53, Grade B
- 2. Anchor Rods, Bolts, and Studs
 - 2.1 Anchor Rods: ASTM F1554, Grade 36. Headed Rods or threaded rods with plate washe heavy hex nut.
 - 2.2 Bolts: 3/4-in Diameter A325 minimum. All connections may be bearing type, UNO. Design bearing type connections for load values with threads included in the she plane. Submit proposed bolt tightening procedure for review.
 - 2.3 Headed Studs: ASTM A108. See Details for Diameter, Length and Spacing. Length given is in-place length after burn-off.
- 3. Structural steel shall be fabricated and erected according to the "Specification for Structural Steel Buildings" referenced in the applicable Building Code.
- 4. Connections shall be detailed based on the design information provided in the Structu Documents.
 - 4.1 Standard Shear Connections: Detail as bolted or welded double-angle, single-plat single-angle, or tee connections in accordance with the connection tables in the "Manual of Steel Construction" referenced in the applicable Building Code.
 - 4.1.1 Shear connections not defined in the AISC Manual shall be designed by an Engineer licensed in the project state. This design service shall be incl in the Contractor's scope of services. Shop drawings of such connections be sealed by the Engineer.
 - 4.2 Welded Connections: Prequalified welded joints in accordance with AISC and the Structural Welding Code of the American Welding Society; "Non-prequalified joint shall be qualified prior to fabrication.
 - 4.3 Factored Design Forces/Reactions: As shown on the Structural Drawings or, if not shown, the factored design reaction shall be half of the "Maximum Total Uniform (LRFD)" tabulated in the "Manual of Steel Construction" referenced in the applic Building Code.
 - 4.4 Steel connections not specifically detailed in the Structural Drawings shall be designed by the Contractor. This design service shall be included in the Contrac scope of services. Shop drawings of such connections shall be sealed by an Engir licensed in the project state.
- 5. Shop Drawings: Submittal shall adequately depict structural members and connections.
- Welders shall be qualified for the work performed in accordance with AWS D1.1. Welde qualifications shall be certified by the local building authority and verified by the 6. Contractor and the Special Inspector.

STRUCTURAL NOTES CONTINUED

	POST-INSTALLED ANCHORS	WOOD
	1. Post-installed anchors shall only be installed where indicated on the structural drawings, unless approved by engineer of record.	1. Structural framing plans depict the primary structural framing system. Contractor shall provide secondary and miscellaneous framing as required to complete the project (see
	2. The below products are the design basis for this project. Product diameter and embedment shall be as shown in the details. Install products IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII). Refer to the project building code and/or	 Dressed Seasoned Lumber: S4S, 19% maximum moisture content at time of dressing. 1 Lintels Floor Joists and Booms.
	requests for products other than those listed below may be submitted by the contractor to the Engineer-of-Record (EOR)for review. Substitutions will only be considered for products having a research report recognizing the product for the appropriate application under the	Douglas Fir Larch, No. 2 grade Southern Pine, No. 2 grade
er and	the substituted product is capable of achieving the equivalent performance values of the design basis product.	2.2 Wood in Contact with Concrete or Masonry or Exposed to Weather: Foundation grade pressure-treated. Use galvanized nails in pressure-treated wood.
	3. For Anchoring into Concrete	3. Structural Panels
ear	3.1 Expansion Anchors: Hilti Kwik Bolt TZ (ICC-ES ESR-1917), Simpson Strong-Bolt 2 (ICC-ES ESR-3037), DeWalt/Powers Power-Stud+ SD1 (ICC-ES ESR-2818), or DeWalt/Powers	3.1 Floor Panels: Tonque-and-groove APA rated Sturd-I-Floor (plywood or OSB).
	Power-Stud+ SD2 (ICC-ES ESR-2502). Minimum embedment = 6 times anchor diameter, UNO.	3.1.1 Panels shall be have a Span Rating of 24 and Exposure 1.
	3.2 Screw Anchors: Simpson Titen-HD (Concrete: ICC-ES ESR-2713; Grouted Masonry: ICC-ES ESR-1056) or DeWalt Screw Bolt+ (ICC-ES ESR-3889), Hilti Kwik HUS-EZ (ICC-ES	3.1.2 Panels shall be placed with the "Strength Axis" perpendicular to the supports. End joints shall be staggered.
	ESR-3027). Minimum Embedment = 6 times anchor diameter, UNO.	3.1.3 Floor panels shall be both glued and nailed.
urai te.	3.3 Adhesive Anchors 3.3.1 Adhesive anchors shall be installed in concrete having a minimum age of 21	3.1.4 Panels shall be nailed with 10d (0.148 dia.) at a maximum of 12 inches at both panel edge supports and at intermediate supports unless noted otherwise. Nailing shall be completed before glue sets.
e luded_	days at time of anchor installation. 3.3.2 Adhesive anchors identified in the drawings as installed in a horizontal or upwardly inclined orientation to resist sustained tensile loads shall be installed by certified installers.	3.1.5 Panels shall have glue applied at supports, end joints and tongue and groove joints. Adhesives shall conform to APA Specification AFG-01 or ASTM D3498, and applied in accordance with the adhesive manufacturer's recommendations. For OSB panels with sealed surfaces, use only solvent-based glues in accordance
sha11	3.3.3 All-thread steel rods conforming ASTM A36 or bolts conforming to ASTM A307, Grade A or, both zinc plated in accordance with ASTM B633 or reinforcing bars conforming to ASTM A615. Grade 60.	with panel manufacturer's recommendations. 3.2 Roof panels: APA rated sheathing (plywood or OSB).
ts"	3.3.4 All-thread steel rods conforming ASTM A36 or bolts conforming to ASTM A307.	3.2.1 Panels shall be have a Span Rating of 40/20 and Exposure 1.
t Load	Grade A or, both zinc plated in accordance with ASTM B633 or reinforcing bars conforming to ASTM A615, Grade 60.	3.2.2 Panels shall be placed with the long direction perpendicular to the supports and shall be a minimum of 24-inches wide and continuous over at least 2 supports.
cable	3.3.5 Adhesive for rebar and anchors shall have been tested in accordance with ACI 355.4 and ICC-ES AC308 for cracked concrete and seismic applications. Design bond strength has been based on CRACKED CONCRETE, ACI 355.4 temperature	3.2.3 Roof panels shall be both glued (exterior glue) and nailed.
ctor's neer	category B, and installations into dry holes drilled using a hammer drill into concrete that has cured for at least 21 days. Adhesive anchors shall be installed by a certified adhesive anchor installer PER ACI 318 17.8.2.2 where	3.2.4 Long panel edges shall be supported with Edge Clips; one located midway between each support. There shall be a 1/8-inch gap at panel edges and ends.
	INDICATED on the contract documents. Installations requiring certified installers shall be inspected per ACI 318 17.8.2.4.	3.2.5 OSB panels shall be installed with the textured side up.
er e	3.3.6 Adhesive conforming to Simpson AT-XP (IAPMO-UES ER-263), Simpson SET-XP (ICC-ES ESR-2508), DeWalt/Powers Pure110+ (ICC-ES ESR-3298), DeWalt/Powers DeWalt AC200+ Adhesive (ICC-ES ESR-4027), Hilti HIT-HY 200 Safe Set Fast Cure	4. Connections for Structural Timber: Galvanized strong-tie connectors by the Simpson Company or approved equal.
	Adhesive (ICC-ES ESR-3187), Hilti HIT-RE 500 V3 SAFE Set Adhesive (ICC-ES ESR-3814).	SHOP-FABRICATED WOOD TRUSSES
	Minimum Embedment = 12 times anchor diameter, UNO. 4. For Anchorage into Solid Grouted Concrete Masonry	 Design of wood trusses and their connections shall be the sole responsibility of the Contractor. Design and shop drawing submittals shall comply with the Specifications. Shop drawings shall be sealed by an Engineer licensed in the Project state.
	4.1 Expansion Anchors: Hilti Kwik Bolt 3 (ICC-ES ESR-1385), Simpson Strong-Bolt 2 (IAPMO-UES ER-240), Simpson Wedge-All (ICC-ES ESR-1396) or DeWalt/Powers Power-Stud+ SD1 (ICC-ES ESR-2966).	2. Wood trusses shall be designed for the superimposed loads given in the Structural Drawings plus any additional superimposed dead loads due to overbuilt wood framing constructed above trusses.
	Minimum embedment = 6 times anchor diameter, UNO.	3. Wood trusses shall be designed for the following superimposed loads: See Sheet S0.4
	4.2 Screw Anchors: Simpson Titen-HD (ICC-ES ESR-1056) or Powers Wedge-Bolt+ (ICC-ES ESR-1678), Hilti Kwik HUS-EZ (ICC-ES ESR-3056). Minimum Embedment = 6 times anchor diameter, UNO.	3.1 Superimposed dead loads due to overbuilt wood framing shall be added to the loads given above.
	4.3 Adhesive Anchors: Adhesive conforming to Simpson Set-XP (IAPMO-UES ER-281), Simpson SET-XP (ICC-ES ESR-265), DeWalt/Powers AC100+ Gold (ICC-ES ESR-3200), Hilti HIT-HY 70 Fast Cure Adhesive (ICC-ES ESR-2682). Minimum Embedment = 6 times anchor diameter, UNO.	

Contractor shall arrange for an anchor manufacturer's representative to provide onsite installation training for all of their anchoring products specified. The structural Engineer of record must receive documented confirmation that all of the contractor's personnel who install anchors are trained prior to the commencement of anchor 5. installation.



GENERAL			CONCRETE MASONRY		REFERENCED STANDARD
This Structural Quality Assurance Plan includes	:	*	 Prior to construction, verification of compliance of submittals. 	Required	TMS 602 - Art. 1.4 B
for this project.			 Prior to construction, verification of f 'm During construction, verification of Slump flow and 	Required Required	TMS 602 - Art. 1.4 B TMS 602 - Art. 1.5 & 1.6.3
2. The responsibilities of the Contractor.			Visual Stability Index (VSI) when self-consolidating grout is delivered to the project site.		
Refer to other portions of the Construction Docu mechanical, electrical, or other building compon	ments for Special Ins	spections required of architectural,	4. As masonry construction begins, verify that the following are in compliance:		
			 b. Grade, type and size of reinforcement, connectors, and anchor bolts 	Р	TMS 602 - Art. 2.1, 2.6 A, & 2.6 C TMS 602 - Art. 3.4
Special Inspector will be hired by the Owner.			 c. Sample panel construction 5. Prior to grouting, verify that the following are in 	Р	TMS 602 - Art. 1.6 D
Special Inspector shall maintain records of inspe and shall distribute these records to the Building	ections in accordance Official, Architect, a	e with Chapter 17 of the Building Code nd Structural Engineer on a weekly	a. Grout space	P	TMS 602 - Art. 3.2 D & 3.2 F
basis, unless noted otherwise below. Reports sr conformance to the Construction Documents. D	nall indicate that work iscrepancies shall be	inspected/tested was done in brought to the immediate attention of the	b. Placement of reinforcement, connectors, and anchor bolts	P	TMS 602 - Art. 3.2 E & 3.4 TMS 402 Sec. 6.1, 6.3.1, 6.3.6, & 6.3.7
Contractor for correction. If the discrepancies ar the Building Official, Architect, and Structural Er	e not corrected, they	shall be brought to the attention of letion of that phase of the work.	c. Proportions of site-prepared grout6. Verify compliance of the following during construction:	P	TMS 602 - Art. 2.6 B
At the conclusion of the project, the Special Inst	pector shall submit a	final report documenting required	a. Materials and procedures with the approved submittals	P	TMS 602 - Art. 1.5
special inspections and correction of any discre	pancies noted in the i	inspections.	c. Size and location of structural members	- Г Р	TMS 602 - Art. 3.3 F
STATEMENT OF SPECIAL INSPECTIONS			d. Type, size, and location of anchors, including other details of anchorage of masonry to structural	Р	TMS 402 - Sec. 1.2.1(e), 6.2.1, & 6.3.1
Special Inspector shall perform the following tes	ts and inspections of	all structural elements included	e. Preparation, construction, and protection of	P	TMS 602 - Art. 1.8 C & 1.8 D
1. The following tables contain material, con	nponents and work th	at require special inspection or testing:	deg. F) or hot weather (temperature below 40 deg. F) or hot weather (temperature above 90 deg. F)	C	TMS 602 - Art 3 5
 Inspection Frequency, C – Continu is present when and where the wor 	ous special inspectio k to be inspected is b	n. Special inspection by the special inspector who being performed.	 Observe preparation of grout specimens, mortar specimens, and/or prisms 	P	TMS 602 - Art. 1.4 B.2.a.3, 1.4 B.2.b.3, 1.4B.2.c.3, 1.4 B.3, & 1.4 B.4
 Inspection Frequency, P – Periodic intermittently present where the wo 	special inspection. Ink to be inspected ha	Special inspection by the special inspector who is is been or is being performed. For structural steel,	STRUCTURAL STEEL	INSPECTION	REFERENCED STANDARD
observe the items on a random bas	sis.	n taaka	Where the following tasks have been be performed by the	FREQUENCY	items on a random basis. Operations
c. See Steel section for additional info	ormation for inspectio	n tasks.	fabricator's or erector's quality control program in accordance to Chapter N of AISC 360-10, it is permitted	need not be delayed	pending these inspections.
SOILS	INSPECTION FREQUENCY	REFERENCED STANDARD	that these tasks be coordinated with the Special Inspector so that the inspection functions are performed by only one party. The Special Inspector shall review records of tasks	Perf Perform these	e tasks for each welded joint, bolted
1. Verify materials below shallow foundations are adequate to achieve the design bearing capacity.	P		performed by the erector's and fabricator's quality control program to verify completeness.	joint, or member.	
 Verify excavations are extended to proper depth and have reached proper material. Perform classification and testing of compacted fill 	P	and prior to placement of structural fills.	1. Inspection of steel framing to verify compliance with details shown on the approved construction documents	Obs.	AISC 360-10 N5.7
4. Verify use of proper materials, densities, and	C	contractor for verification of in place densities. Refer to specification for lift thicknesses and	including member locations, bracing, stiffening application of joint details at each connection, proper fasteners, etc.		
lift thickness during placement and compaction of compacted fill.		compaction.	 Review the material test reports and certifications as listed below for compliance with the construction 	Perf.	AISC 360-10 N5.2 & N3.2
 a. As a minimum, perform one test per lift for every 2500 square feet of fill placed. 5. Prior to placement of compacted fill inspect subgrade. 	P		documents. a. Main structural steel material test reports		
and verify that the site has been prepared properly (e.g. proofrolling, etc.).			 b. Anchor rods and threaded rods test reports 3. Visual Inspection Tasks Prior to Welding 		AISC 360-10 Table N5 4-1
6. Determine quantities of material removed and quantities of material placed where Unit Prices are involved.	Р		a. Welding procedure specifications (WPSs) available	Perf.	AWS D1.1/D1.1M 6.3
CONCRETE CONSTRUCTION	INSPECTION	REFERENCED STANDARD	c. Material identification (type/grade)	Obs.	AWS D1.1/D1.1M 6.2
1. Inspection of reinforcing steel placement and	FREQUENCY	ACI 318 Ch. 20, 25.2, 25.3, 26.6.1-26.6.3 / IBC 1908.4	d. Welder identification system. The fabricator or erector, as applicable, shall maintain a system by	Obs.	AWS D1.1/D1.1M 6.4 (welder qualification)
installation. Grade, size, quantity, quality, location, spacing, clearances.			which a welder who has welded a joint or member can be identified. Stamps, if used, shall be the		(identification system not required by AWS D1.1/D1.1M)
 Inspection of anchors cast in concrete. Verify compliance of the following: diameter, grade, type, length, number, placement, and embedment depth. 	C	ACI 318 17.8.27 AISC 360 N5.7	e. Fit-up of fillet welds	Obs.	
3. Inspection of post-installed mechanical anchors installed in hardened concrete members: verify anchor	С	ACI 318 17.8.2 Use of post installed anchors must be	ii. Cleanliness (condition of steel surfaces)		AWS D1.1/D1.1M 5.22.1 AWS D1.1/D1.1M 5.15
type, anchor dimensions, hole diameter and cleaning procedures, anchor spacing, edge distances, concrete minimum thickness, anchor embedment and tightening		approved by Structural Engineer	f. Check welding equipment	Obs.	AWS D1.1/D1.1M 5.18 Only required for shop Fabrication.
torque.	C		4. Visual Inspection Tasks During Welding a. Use of qualified welders	Obs.	AISC 360-10 Table N5.4-2 AWS D1.1/D1.1M 6.4
reinforcing steel installed in hardened concrete members: Verify adhesive type, anchor rod dimensions,	C	Use of post installed anchors must be approved by Structural Engineer	 b. Control and handling of welding consumables i. Packaging 	Obs.	AWS D1.1/D1.1M 5.3.1
hole diameter and cleaning procedures, anchor spacing, edge distances, concrete minimum thickness, anchor embedment and tightening torque			ii. Exposure control		AWS D1.1/D1.1M 5.3.2 (for SMAW), AWS D.1/D1.1M 5.3.3 (for SAW)
5. Verify use of required design mix.	Р	ACI 318 Ch. 19, 26.4.3 26.4.4 / IBC 1904.1, 1904.2,	c. No welding over cracked tack welds d. Environmental conditions	Obs. Obs.	D1.1/D1.1M 5.18 (for SAW)
 Sampling fresh concrete from concrete discharge. Mold one set of specimens for compressive strength 		ACI 318 26.5, 26.12 / IBC 1908.10 ASTM C172, ASTM C31	i. Wind speed within limits ii. Precipitation and temperature		AWS D1.1/D1.1M 5.12.1 AWS D1.1/D1.1M 5.12.2
testing for each 150 cubic yards or each 5,000 square feet of slab or wall surface area for each mix design			e. WPS followed i. Setting on welding equipment	Obs.	AWS D1.1/D1.1M 6.3.3, 6.5.2, 5.5, 5.21
given class of concrete for the entire project. a. Mold (5) 4x8-inch compressive strength			ii. Travel speed iii. Selected welding materials		
cylinders, break and report (1) at 7-days, (3) at 28-days, or mold (4) 6x12-inch compressive strength			iv. Shielding gas type/flow rate v. Preheat applied		
28-days.	0		vi. Interpass temperature maintained (min./max.)vii. Proper position (F, V, H, OH)		AWS D1.1/D1.1M 5.6, 5.7
directed by the Structural Engineer if compressive strengths do not appear adequate.	C		 f. Welding techniques i. Interpass and final cleaning 	Obs.	AWS D1.1/D1.1M 6.5.2, 6.5.3, 5.24
 c. For each set molded, record: i. Slump 			ii. Each pass within profile limitations iii. Each pass meets quality requirements		AWS D1.1/D1.1M 5.30.1
ii. Air Content iii. Unit Weight			5. Visual Inspection Tasks After Welding a. Welds Cleaned	Obs.	AISC 360-10 Table N5.4-3 AWS D1.1/D1.1M 5.30.1
iv. Temperature, ambient and concrete v. Batch and discharge times			 b. Size, length and location of welds c. Welds meet visual acceptance criteria 	Perf.	AWS D1.1/D1.1M 6.5.1 AWS D1 1/D1 1M 6.5.3
vi. Location and placement			i. Crack prohibition ii. Weld/base-metal fusion		AWS D1.1/D1.1M Table 6.1(1)
d. Report in writing on the same day as tests are			iii. Crater cross section		AWS D1.1/D1.1M Table 0.1(2) AWS D1.1/D1.1M Table 6.1(3)
performed. Reports of compressive strength tests shall contain the project identification name and number, date of concrete placement, name of			v. Weld size		AWS D1.1/D1.1W Table 0.1(4), 5.24 AWS D1.1/D1.1M Table 6.1(6)
concrete testing agency, concrete design compressive strength, location of concrete			vi. Undercut vii. Porosity		AWS D1.1/D1.1M Table 6.1(7) AWS D1.1/D1.1M Table 6.1(8)
placement in structure, concrete mix proportions and materials, compressive breaking strength and type of break.			 a. Arc strikes e. Repair activities 	Perf. Perf.	AWS D1.1/D1.1M 5.29 AWS D1.1/D1.1M 6.5.3, 5.26
e. Verify compliance with construction documents.			 f. Document acceptance or rejection of welded joint or member a. No prohibited welds have been added without the 	Pert.	AWS D1.1/D1.1M 6.5.4, 6.5.5
 Inspection of concrete conveying and placement for proper application techniques. Inspection for maintenance of specified curing 	C	ACI 318 26.5 / IBC 1908.6-1908.8	approval of the EOR.6. Nondestructive Testing (NDT) of Welded Joints	Ultrasonic testing (UT), mag	gnetic particle testing (MT), penetrant testing (PT) and
 Inspection for maintenance of specified curing temperature and techniques. Inspection of formwork for shape, location, and 	P	ACI 318 26.5.5-26.5.5 / IBC 1908.9		radiographic testing (RT), w in accordance with AWS D1	here required, shall be performed by Special Inspector 1.1/D1.1M. NDT of welds completed in a fabricator's shop
dimensions of the concrete member being formed.				the Building Official where a Special inspection agency s	applicable. When the fabricator performs the NDT, the shall review the fabricator's NDT reports. All NDT of
				welds completed in the field Acceptance criteria shall be structures, unless otherwise	 shall be performed by the Special Inspector. in accordance with AWS D1.1/D1.1M for statically loaded e designated in the design drawings or project
				specifications.	
			 a. Document all NDT performed, identifying tested weld by location in the structure, piece mark and location. Concurrent to submitting NDT reports to 	Pert.	AISC 360-10 N5.5g
			EOR or owner submit to contractor. b. Review NDT test reports performed by fabricator	Perf.	AISC 360-10 N7
			7. Inspection Tasks Prior to Bolting	Perform for 10% of all Snug pretension and slip critical jo	tight joints if task is applicable and all oints. AISC 360-10 Table N5.6-1
			 a. Manufacturer's certifications available for fastener materials b. Fasteners marked in accordance with ASTM 	Perf.	RCSC 2.1 & 9.1
			c. Correct fasteners selected for the joint detail	Obs.	RCSC 2.3.2, 2.7.2 & 9.1
			(grade, type, bolt length if threads are to be excluded from shear plane)		
			a. Correct bolting procedure selected for joint detail e. Connecting elements, including the appropriate	Obs.	RCSC 4, & 8
			faying surface condition and hole preparation, if specified, meet applicable requirements		1.000 0, 0. 4 0 0.0
			f. Pre-installation verification testing by installation personnel observed and documented for	Obs.	RCSC 7 & 9.2
			for Snug tight bolts	Ohe	RCSC 228804
			and other fastener components	ODS.	NUUU 2.2,0 & 9.1

GENERAL			CONCRETE MASONRY		REFERENCED STANDARD
This Structural Quality Assurance Plan includes); ; ; , , , , , , , , , , , , , , , , ,		 Prior to construction, verification of compliance of submittals. 	Required	TMS 602 - Art. 1.4 B
 The Statement of Special Inspections which defines the scope of testing and inspection that is required for this project. The responsibilities of the Contractor. 			 Prior to construction, verification of f 'm During construction, verification of Slump flow and Visual Stability Index (VSI) when self-consolidating grout is delivered to the project site. 	Required Required	TMS 602 - Art. 1.4 B TMS 602 - Art. 1.5 & 1.6.3
Refer to other portions of the Construction Documechanical, electrical, or other building comport	uments for Special Ins nents.	spections required of architectural,	 As masonry construction begins, verify that the following are in compliance: a. Proportions of site-prepared mortar. 	P	TMS 602 - Art 21 26 A & 26 C
			 b. Grade, type and size of reinforcement, connectors, and anchor bolts 	P	TMS 602 - Art. 3.4
Special Inspector will be hired by the Owner.			c. Sample panel construction5. Prior to grouting, verify that the following are in	P	TMS 602 - Art. 1.6 D
Special Inspector shall maintain records of insp and shall distribute these records to the Building basis, unless noted otherwise below. Reports s	ections in accordance g Official, Architect, a hall indicate that work	e with Chapter 17 of the Building Code nd Structural Engineer on a weekly inspected/tested was done in	compliance: a. Grout space b. Placement of reinforcement, connectors, and anchor bolts	P P P	TMS 602 - Art. 3.2 D & 3.2 F TMS 602 - Art. 3.2 E & 3.4 TMS 402 Sec. 6.1, 6.3. 6.3 6. & 6.3 7
Contractor for correction. If the discrepancies a	re not corrected, they	shall be brought to the attention of the	 c. Proportions of site-prepared grout 6. Verify compliance of the following during construction: 	Р	TMS 602 - Art. 2.6 B
the Building Official, Architect, and Structural El	ngineer prior to comp	etion of that phase of the work.	a. Materials and procedures with the approved submittals	Р	TMS 602 - Art. 1.5
special inspections and correction of any discre	pancies noted in the i	inspections.	b. Placement of masonry units and mortar joint construction	P	TMS 602 - Art. 3.3 B
STATEMENT OF SPECIAL INSPECTIONS			 c. Size and location of structural members d. Type, size, and location of anchors, including other details of anchorage of masonry to structural 	P P	TMS 602 - Art. 3.3 F TMS 402 - Sec. 1.2.1(e), 6.2.1, & 6.3.1
Special Inspector shall perform the following test	sts and inspections of	all structural elements included	e. Preparation, construction, and protection of	P	TMS 602 - Art. 1.8 C & 1.8 D
within this Statement of Special Inspections.1. The following tables contain material, cor	nponents and work th	at require special inspection or testing:	masonry during cold weather (temperature below 40 deg. F) or hot weather (temperature above 90 deg. F)		THO 000 A 4 0 F
a. Inspection Frequency, C – Continuis present when and where the work	ious special inspectio rk to be inspected is t	n. Special inspection by the special inspector who being performed.	 Placement of grout is in compliance Observe preparation of grout specimens, mortar specimens, and/or prisms 	P	TMS 602 - Art. 3.5 TMS 602 - Art. 1.4 B.2.a.3, 1.4 B.2.b.3, 1.4B.2.c.3 14 B 3 & 14 B 4
 b. Inspection Frequency, P – Periodic intermittently present where the work 	c special inspection. ork to be inspected ha	Special inspection by the special inspector who is seen or is being performed. For structural steel.		INSPECTION	
observe the items on a random ba	sis.		Where the following tasks have been be performed by the	FREQUENCY	itoms on a random basis. Operations
c. See Steel section for additional in			fabricator's or erector's quality control program in accordance to Chapter N of AISC 360-10, it is permitted	need not be delayed	pending these inspections.
SOILS	INSPECTION FREQUENCY	REFERENCED STANDARD	that these tasks be coordinated with the Special Inspector so that the inspection functions are performed by only one party. The Special Inspector shall review records of tasks	Perf Perform these	tasks for each welded joint, bolted
 Verify materials below shallow foundations are adequate to achieve the design bearing capacity. Verify evenuations are extended to proper depth and 	P	Inspection is required ofter everyation is complete	performed by the erector's and fabricator's quality control program to verify completeness.	joint, or member.	
 Verify excavations are extended to proper depth and have reached proper material. Perform classification and testing of compacted fill 	P	and prior to placement of structural fills. Perform laboratory tests of field samples provided by	1. Inspection of steel framing to verify compliance with details shown on the approved construction documents	Obs.	AISC 360-10 N5.7
materials.4. Verify use of proper materials, densities, and	С	contractor for verification of in place densities. Refer to specification for lift thicknesses and	including member locations, bracing, stiffening application of joint details at each connection, proper fasteners, etc.		
lift thickness during placement and compaction of compacted fill.		compaction.	 Review the material test reports and certifications as listed below for compliance with the construction 	Perf.	AISC 360-10 N5.2 & N3.2
 a. As a minimum, perform one test per int for every 2500 square feet of fill placed. 5. Prior to placement of compacted fill, inspect subgrade 	P		documents. a. Main structural steel material test reports		
and verify that the site has been prepared properly (e.g. proofrolling, etc.).			b. Anchor rods and threaded rods test reports3. Visual Inspection Tasks Prior to Welding		AISC 360-10 Table N5.4-1
 Determine quantities of material removed and quantities of material placed where Unit Prices are involved. 	Р		a. Welding procedure specifications (WPSs) availableb. Manufacturer certifications for welding consumables	Perf. Perf.	AWS D1.1/D1.1M 6.3
CONCRETE CONSTRUCTION		REFERENCED STANDARD	available. c. Material identification (type/grade)	Obs.	AWS D1.1/D1.1M 6.2
 Inspection of reinforcing steel placement and installation. Grade, size, quantity, quality, location, spacing, clearances. 	P	ACI 318 Ch. 20, 25.2, 25.3, 26.6.1-26.6.3 / IBC 1908.4	 Welder identification system. The fabricator or erector, as applicable, shall maintain a system by which a welder who has welded a joint or member can be identified. Stamps, if used, shall be the 	Obs.	AWS D1.1/D1.1M 6.4 (welder qualification) (identification system not required by AWS D1.1/D1.1M)
 Inspection of anchors cast in concrete. Verify compliance of the following: diameter, grade, type, length, number, placement, and embedment depth 	С	ACI 318 17.8.2 / AISC 360 N5.7	e. Fit-up of fillet welds	Obs.	
 Inspection of post-installed mechanical anchors installed in hardened concrete members: verify anchor 	С	ACI 318 17.8.2 Use of post installed anchors must be	i. Dimensions (alignment, gaps at root)ii. Cleanliness (condition of steel surfaces)		AWS D1.1/D1.1M 5.22.1 AWS D1.1/D1.1M 5.15
type, anchor dimensions, hole diameter and cleaning procedures, anchor spacing, edge distances, concrete		approved by Structural Engineer	iii. Tacking (tack weld quality and location) f. Check welding equipment	Obs.	AWS D1.1/D1.1M 5.18 Only required for shop Fabrication.
torque.			4. Visual Inspection Tasks During Weldinga. Use of qualified welders	Obs.	AISC 360-10 Table N5.4-2 AWS D1.1/D1.1M 6.4
 Inspection of post-installed adhesive anchors and reinforcing steel installed in hardened concrete members: Verify adhesive type, anchor rod dimensions, hole diameter and cleaning procedures, anchor spacing, edge distances, concrete minimum thickness, anchor 	C	ACI 318 17.8.2.4 Use of post installed anchors must be approved by Structural Engineer	 b. Control and handling of welding consumables i. Packaging ii. Exposure control 	Obs.	AWS D1.1/D1.1M 5.3.1 AWS D1.1/D1.1M 5.3.2 (for SMAW), AWS D.1/D1.1M 5.3.3 (for SAW)
embedment and tightening torque.5. Verify use of required design mix.	P	ACI 318 Ch. 19, 26.4.3 26.4.4 / IBC 1904.1, 1904.2,	c.No welding over cracked tack weldsd.Environmental conditions	Obs. Obs.	D1.1/D1.1M 5.18 (for SAW)
 Sampling fresh concrete from concrete discharge. Mold one set of specimens for compressive strength 		1908.2, 1908.3 ACI 318 26.5, 26.12 / IBC 1908.10 ASTM C172, ASTM C31	i. Wind speed within limitsii. Precipitation and temperature		AWS D1.1/D1.1M 5.12.1 AWS D1.1/D1.1M 5.12.2
testing for each 150 cubic yards or each 5,000 square feet of slab or wall surface area for each mix design			e. WPS followedi. Setting on welding equipment	Obs.	AWS D1.1/D1.1M 6.3.3, 6.5.2, 5.5, 5.21
placed in any one day. No fewer than five tests for a given class of concrete for the entire project. a. Mold (5) 4x8-inch compressive strength			ii. Travel speediii. Selected welding materials		
cylinders, break and report (1) at 7-days, (3) at 28-days, or mold (4) 6x12-inch compressive strength			iv. Shielding gas type/flow ratev. Preheat applied		
cylinders, break and report (1) at 7-days, (2) at 28-days.	2		vi. Interpass temperature maintained (min./max.) vii. Proper position (F, V, H, OH)		AWS D1.1/D1.1M 5.6, 5.7
directed by the Structural Engineer if compressive strengths do not appear adequate.	C		 f. Welding techniques i. Interpass and final cleaning 	Obs.	AWS D1.1/D1.1M 6.5.2, 6.5.3, 5.24
c. For each set molded, record:i. Slump			ii. Each pass within profile limitationsiii. Each pass meets quality requirements		AWS D1.1/D1.1M 5.30.1
ii. Air Content iii. Unit Weight			5. Visual Inspection Tasks After Welding a. Welds Cleaned	Obs.	AISC 360-10 Table N5.4-3 AWS D1.1/D1.1M 5.30.1
iv. Temperature, ambient and concretev. Batch and discharge times			 b. Size, length and location of welds c. Welds meet visual acceptance criteria 	Perf. Perf.	AWS D1.1/D1.1M 6.5.1 AWS D1.1/D1.1M 6.5.3
vi. Location and placement vii. Any pertinent information, such as addition of			i. Crack prohibition ii. Weld/base-metal fusion		AWS D1.1/D1.1M Table 6.1(1) AWS D1.1/D1.1M Table 6.1(2)
water, addition of admixtures, etc. d. Report in writing on the same day as tests are			iii. Crater cross section iv. Weld profiles		AWS D1.1/D1.1M Table 6.1(3) AWS D1.1/D1.1M Table 6.1(4), 5.24
shall contain the project identification name and number, date of concrete placement, name of			v. Weld size vi. Undercut		AWS D1.1/D1.1M Table 6.1(6) AWS D1.1/D1.1M Table 6.1(7)
concrete testing agency, concrete design compressive strength, location of concrete placement in structure, concrete mix proportions			vii. Porosity d. Arc strikes	Perf	AWS D1.1/D1.1M Table 6.1(8)
and materials, compressive breaking strength and type of break.			e. Repair activities f Document acceptance or rejection of welded joint	Perf.	AWS D1.1/D1.1M 6.5.3, 5.26
 e. Verify compliance with construction documents. 7 Inspection of concrete conveying and placement for 	C	ACI 318 26 5 / IBC 1908 6-1908 8	or member g. No prohibited welds have been added without the	Obs.	
8. Inspection for maintenance of specified curing	P	ACI 318 26.5.3-26.5.5 / IBC 1908.9	approval of the EOR.6. Nondestructive Testing (NDT) of Welded Joints	Ultrasonic testing (UT), mag	gnetic particle testing (MT), penetrant testing (PT) and there required, shall be performed by Special Inspecto
 temperature and techniques. Inspection of formwork for shape, location, and dimensions of the concrete member being formed 	Р	ACI 318 26.11.1.2(b)		in accordance with AWS D1 may be performed by that fa	1.1/D1.1M. NDT of welds completed in a fabricator's s abricator when fabricator is AISC Certified or approved
dimensions of the concrete member being formed.				the Building Official where a Special inspection agency s welds completed in the field	pplicable. When the fabricator performs the NDT, the hall review the fabricator's NDT reports. All NDT of shall be performed by the Special Inspector.
				Acceptance criteria shall be structures, unless otherwise	in accordance with AWS D1.1/D1.1M for statically loa e designated in the design drawings or project
			a. Document all NDT performed, identifying tested	Perf.	AISC 360-10 N5.5g
			weld by location in the structure, piece mark and location. Concurrent to submitting NDT reports to EOR or owner submit to contractor.	Dorf	AISC 360 10 NZ
			7. Inspection Tasks Prior to Bolting	Perform for 10% of all Snug pretension and slip critical ic	tight joints if task is applicable and all pints. AISC 360-10 Table N5.6-1
			a. Manufacturer's certifications available for fastener materials	Perf.	RCSC 2.1 & 9.1
			 b. Fasteners marked in accordance with ASTM requirements c. Correct fasteners selected for the joint datail 	Perf.	RCSC Figure C-2.1 & 9.1 (Also See ASTM Standard
			(grade, type, bolt length if threads are to be excluded from shear plane)		1000 z.o.z, z. <i>i</i> .z & 9.1
			d. Correct bolting procedure selected for joint detail	Obs.	RCSC 4, & 8
			 Connecting elements, including the appropriate faying surface condition and hole preparation, if specified, meet applicable requirements 	Obs.	RCSC 3, 9.4 & 9.3
			f. Pre-installation verification testing by installation personnel observed and documented for fastener assemblies and methods used, not required for Spue tight batte	Obs.	RCSC 7 & 9.2
			g. Proper storage provided for bolts, nuts, washers	Obs.	RCSC 2.2,8 & 9.1

STRUCTURAL QUALITY ASSURANCE PLAN

	STRUCTURAL STEEL (CONT.)	INSPECTION FREQUENCY	REFERENCED STANDARD
8.	Inspection Tasks During Bolting	Perform for 10% of all Snug pretension and slip critical jo present during bolt pretension	tight joints if task is applicable and all bints. Special Inspector need not be oning procedures. AISC 360-10 Table N5.6-2
	 Fastener assemblies, of suitable condition, placed in all holes and washers (if required) are positioned as required 	Obs.	RCSC 8.1 & 9.1
	 Joint brought to the snug-tight condition prior to the pretensioning operation 	Obs.	RCSC 8.1 & 9.1
	 Fastener component not turned by the wrench prevented from rotating 	Obs.	RCSC 8.2 & 9.2
	d. Fasteners are pretensioned in accordance with the RCSC Specification, progressing systematically from the most rigid point toward the free edges	Obs.	RCSC 8.2 & 9.2
9.	Inspection Tasks After Bolting		AISC 360-10 Table N5.6-3
	a. Document acceptance or rejection of bolted connections	Perf.	
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	WOOD	INSPECTION FREQUENCY	REFERENCED STANDARD
1.	Verify wood products by official grade mark. If specified, verify fire-retardant-treated and preservative-treated wood is labeled.	Р	
2.	Verify that general arrangement and installation of wood members is in accordance with the approved truss shop drawings and the Construction Documents.	P	
3.	For SFR and MWFR Systems, perform the following:		
	a. Inspect during field gluing operations.	С	
	 b. Verify nailing, bolting, anchoring, and other fastening of components, including wood shearwalls, wood diaphragms, drag struts, braces, shear panels, and hold-downs. 	Р	
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	SHOP-FABRICATED WOOD TRUSSES	INSPECTION FREQUENCY	REFERENCED STANDARD
1.	Verify wood products by official grade mark. If specified, verify fire-retardant-treated wood is labeled.	Р	
2.	Verify that general arrangement and installation of wood trusses is in accordance with the approved wood truss shop drawings and the Construction Documents.	Р	
3.	Verify that the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing are installed in accordance with the approved shop drawings.	Р	
4.	Verify that trusses and truss connections are not damaged or have not been field modified.	Р	
5.	Verify wood truss bearing lengths at all support points.	С	
6.	Verify wood truss anchorage details at all support points.	С	
7.	For trusses with clear spans of 60-feet or more, verify the temporary and permanent restraint/ bracing are installed in accordance with the approved truss submittal package.	Р	IBC 1705.5.2
8.	Quality control procedures shall as a minimum follow the		

CONTRACTOR RESPONSIBILITIES

- 1. Contractor shall pay for any additional structural testing/inspection required for work or materials not complying with the Construction Documents due to negligence or nonconformance and shall pay for any additional structural
- testing/inspection required for his convenience.
- 2. Contractor is responsible to ensure that the Special Inspector is on site as required to perform all tasks required by Statement of Special Inspection. Any work that requires special inspection and is performed without the Special Inspector being present is subject to being demolished and reconstructed.
- 3. Contractor has the following responsibilities to the Special Inspector:
- a. Provide copy of Construction Documents to Special Inspector and latest addenda (include change orders and field orders
- prior to inspection of work contained therein). b. Notify Special Inspector sufficiently in advance of operations to allow assignment of personnel and scheduling of tests.
- c. Cooperate with Special Inspector and provide access to work.
- d. Provide samples of materials to be tested in required quantities.
- e. Provide storage space for Special Inspector's exclusive use, such as for storing and curing concrete testing samples. f. Provide labor to assist Special Inspector in performing tests/inspections.
- 4. Contractor shall perform the following:
- a. SOILS
- i. Identify soils to be used as structural fill. b. CAST-IN-PLACE CONCRETE
- i. Submit manufacturer's certification that reinforcing materials comply with Construction Documents.
- ii. Establish concrete mix design proportions in accordance with the specifications and ACI 318, Chapter 26.4. iii. Submit manufacturer's certification that concrete materials meet the requirements of the Construction Documents.
- iv. Submit manufacturer's data for tension and compression splicers.
- c. CONCRETE MASONRY
- i. Submit a certification from each manufacturer or supplier stating that the following materials comply with the Construction Documents:
- 1. Concrete masonry units.
- 2. Mortar materials: Portland cement, hydrated lime, and aggregates. 3. Grout materials: Portland cement and aggregates.
- 4. Joint reinforcement steel.
- 5. Reinforcing steel.
- d. STRUCTURAL STEEL
- i. If fabricator or erector is not AISC certified, the fabricator and/or erector shall establish and maintain quality control procedures and perform inspections to ensure that their work is performed in accordance with the Section N of the Specification for Structural Steel Building, AISC 360-10 and the construction documents. Payment of these Quality control tests and inspections, except for all NDT of welds completed in the field by the Special Inspector, shall be by the fabricator and Erector.
- 1. Make available the documents listed in AISC 360-10 N3.2 in electronic or printed form for review by the EOR of the
- EOR's Designee prior to fabrication or erection unless otherwise required by the contract documents to be submitted. ii. If fabricator and erector are certified by the American Institute of Steel Construction (AISC) Quality Certification
- Program for Structural Steel Buildings submit certification. 1. At completion of fabrication, the approved fabricator shall submit a certificate of compliance to the Building Official stating that the materials supplied and work performed by the fabricator are in accordance with the construction documents.
- 2. At completion of erection, the approved erector shall submit a certificate of compliance to the Building Official stating that the materials supplied and work performed by the erector are in accordance with the construction documents. iii. Provide non-destructive test (NDT) reports performed in shop by fabricator. Fabricator is responsible for cost of NDT
- performed in shop. Reports shall identify the tested weld by piece mark and location in the piece. e. POST-INSTALLED ANCHORS
- i. Contractor shall contact manufacturer's representative for product installation training. Submit a letter indicating that training has taken place.
- f. WOOD
- i. Submit certification that the manufacturer of structural glued laminated timbers is certified and licensed by AITC.
- g. SHOP-FABRICATED WOOD TRUSSES
- i. Submit certification that truss fabricator is certified by the TPI Quality Assurance Program (QAP). ii. Submit fabricator's certificate of compliance that the manufactured trusses conform to the requirements of the Construction Documents.







1/4" = 1'-0"



SEE 1A/S2.1 FOR TYP. SLAB ON GRADE DETAILS

WF2.0 98' - 0'''

FOUNDATION - SOFTBALL CONCESSIONS

FOUNDATION - HOME DUGOUT

1/4" = 1'-0"



FOUNDATION - BASEBALL CONCESSIONS

1/4" = 1'-0"





PRE-ENGINEERED CANOPY: DESIGN OF MEMBERS AND CONNECTION TO STRUCTURE IS THE RESONSIBILITY OF THE CANOPY SUPPLIER - TYP.

SECOND FLOOR / LOW ROOF - BASEBALL CONCESSIONS 1/4" = 1'-0"











1/4" = 1'-0"



ROOF FRAMING - BASEBALL CONCESSIONS

1/4" = 1'-0"









,	



8"



<u>N(</u>	
1.	FILL CMU CORES AT LINTEL BEARING W/ 25
	COARSE GROUT. REINFORCE JAMBS w/ FU
	REINFORCING PER CMU WALL OPENING DE

	MARKED "LX" CMU LINTEL SCHEDULE						
	WALL	LINTEL	F	REINFORCEMENT			
WARK	THICK'S	DEPTH	BOTTOM	TOP	VERTICAL	BEARING END LENGTH	
L1	8	8	2-#5	-	-	8"	
L2	8	16	2-#5	-	-	8"	
L3	8	24	2-#5	-	-	16"	
L4	12	16	2-#6	2-#6	#3 @ 16"	16"	

UNMARKED CMU LINTEL SCHEDULE

2-#4 BOTTOM

WALL OPENING LINTEL DEPTH REINFORCING BEARING END LENGTH

8"

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UP TO 4'-0"





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	ABBREVIAT	IONS	G	ENERAL P	LAN N	otes	MAST	
	A.F.F.ABOVE FINISH FLOCALT.ALTERNATEAL/ALUM.ALUMINUMARCH.ARCHITECT/ ARCHITBD.BOARDBIT.BITUMINOUSBLKG.BLOCKINGBLDG.BUILDINGB.O.BOTTOM OF SOMETBRG.BEARINGC.J.CONTRACTION/ COCL.CENTERLINE	DR TECTURAL 'HING DNSTRUCTION JOINT	1. (NIC) AND 2. DO N TAKE 3. ALL D OR TH OTHE QUES 4. MASH WALL VENE 5. REFE	-NOT IN CONTRAG INSTALLED BY OTH OT SCALE DRAWI PRECEDENCE. DIMENSIONS ARE T O CENTERLINE OF ERWISE NOTED. CO STIONS REGARDING ONRY DIMENSION L DIMENSIONS ARE ER. R TO ENLARGED PI	CT. PROVIDE HERS. NGS. WRITTEN O FACE OF S STRUCT'L STEN DNTACT ARCH G DIMENSION IS ARE ACTUA E TO EXTERIO LANS FOR DIA	D BY OWNER N DIMENSIONS TUDS, MASONRY EL UNLESS HITECT WITH ANY NS. AL. EXTERIOR R FACE OF MENSIONS NOT	333000.C 033000.E 033000.I 042000.A 042000.C 042000.D 042000.H 042000.I 042000.L 042000.O 051200.A	Isolation Joint M Granular Sub-ba Concrete Maso Split Face CMU Ground Face C Vents and Wee Through Wall Flac Masonry Reinfor Bond Beam Structural Steel
	CLG.CEILINGCLR.CLEARC.M.U.CONCRETE MASONCOL.COLUMNCONC.CONCRETECONT.CONTINUOUSDBL.DOUBLEDIA.DIAMETERDS.DOWNSPOUTDWG.DRAWING		6. ALL E 7. ALL I 8. PROV CON 9. PART CON RATII ELEC SEAL	WN ON 1/8" PLANS EXTERIOR WALLS A NTERIOR PARTITION VIDE BULLNOSE UN CRETE BLOCK CO ITION TYPES SHALL STRUCTION AND F NG (IF ANY) FOR F ., AND PLUMBING ED/SAFED/DAMPE	S. RE WALL TYPI NS ARE WALL NTS AT ALL VI RNERS U.N.O MAINTAIN T RESPECTIVE SI ULL HEIGHT. PENETRATIO RED AS RQD.	E 'A' U.N.O. . TYPE '1' U.N.O. ERTICAL OUTSIDE HEIR EPARATION ALL MECH., NS SHALL BE . TO COMPLY W/	052100.A 055213.A 061000.A 061000.B 061000.C 061000.G 061753.A 064100.A 064100.A13	Steel Joists Steel Compone Wood Blocking Plywood Sheath Wood Framing Composite Woo Shop Fabricated Custom Casewo Plastic Laminate
	E.I.F.S.EXTERIOR INSULATIONE.J.EXPANSION JOINTEQ.EQUALEQUIP.EQUIPMENTELEV.ELEVATORE.O.S.EDGE OF SLABE.R.D.EMERGENCY ROOFE.T.R.EXISTING TO REMAINEXP.EXPANSION	DN FINISH SYSTEM DRAIN OVERFLOW N	APPL 10. REFEI LOC, OTHE COM 11. REFEI SCHE GAL ^V 12. VERII	ICABLE CODES. R TO STRUCTURAL ATIONS, CONNEC R REQ. PERTAININ IPONENTS INDICA R TO STRUCTURAL EDULE. ALL EXTERIC VANIZED AND PAII FY RQD. DEPTH OF	DRAWINGS F TIONS, REINFO G TO STRUCT TED. DRAWINGS F DR LINTELS AF NTED. ALL RECESSE	OR TYPES, SIZES, ORCEMENT AND URAL OR LINTEL RE TO BE ED SLABS W/	064100.A20 064100.C6 064100.C8 071300.A 072100.B 072100.C 072100.G 072119.A	Solid-Surface Co Solid Surface Ba Underslab Vapo Perimeter Found Thermal Batt Ins Thermal Barrier (Ecomed-In-Plac
	EXT.EXTERIORFAB.FABRICATE/ FABRICFDN.FOUNDATIONF.F.E.FINISH FLOOR ELEV/F.G.E.FINISH GRADE ELEV/FIN.FINISHFLR.FLOOR/ FLOORINGF.RT.FIRE RETARDENTFT.FEETF.VFIELD VERIEY	ATION ATION ATION	APPR PRIO 13. MAS ARE OPEN 14. DOC LOC, THE 15. WHEI	ROPRIATE FINISH FL R TO PLACEMENT ONRY OPENINGS I ITYPICALLY LOCATI VING TO THE ADJA VRS IN GYPSUM BC ATED 6" FROM THE ADJACENT WALL U RE DOORS HAVE 1	LOORING MA OF SLAB. IN CMU WAL ED 8" FROM T ACENT WALL DARD WALLS DOOR JAME J.N.O. 80 DEGREE S	INUFACTURER LS FOR DOORS HE JAMB J.N.O. ARE TYPICALLY 3 OPENING TO WING IN CMU	073113.A 073113.B 073113.C 073113.C 073113.D 073113.F 073113.G 073113.H 073113.H	Asphalt Shingles Shingle Underla Ice & Water Shie Ridge Eave Vent Soffit Panel Drip Edge Rake Edge
	F.V.FIELD VERIFYGA.GUAGEGALV.GALVANIZEDGYP.GYPSUMHORZ.HORIZONTALHT.HEIGHTINSUL.INSULATIONINT.INTERIORJT.JOINTLAM.LAMINATE	-	1. REFE PART	TO FLOOR PLANS	ALL N S FOR THE LO	CATION OF BED ON THIS	073113.K 073113.L 073113.M 073113.M 073133.G 073133.H 073133.L 074113.D	Nailbase Sheet Metal Wro Step Flashing Roof To Wall Ve Soffit Panel Drip Edge Sheet Metal Wro Downspout
	MAS.MASONRYM.E.P.MECHANICAL, ELECMFR.MANUFACTURERMAT.MATERIALMAX.MAXIMUMMECH.MECHANICALMEM.MEMBRANEMIN.MINIMUMMISC.MISCELLANEOUSM.O.MASONRY OPENING	CTRICAL, PLUMBING	 REFEI REQU MASI CON NECI EXTEI OF W THRC A. 	R TO STRUCTURAL L JIREMENTS PERTAIL ONRY. ITRACTOR SHALL IN ESSARY TO ACHIEV RIOR WALLS BY AL /ATER TO THE EXTE DUGH-WALL FLASH KEEP ALL DRAIN WALLS FREE OF	NAWINGS FOND NING TO REIN VE WEATHER- LOWING POS RIOR TO OCC ING IS INDIC NAGE CAVITI	OR OTHER NFORCED UNIT MEASURES TIGHTNESS OF SITIVE DRAINAGE CUR WHERE ATED OR RQD. ES IN CAVITY	075400.F 076200.B 077100.D 077123.A 077123.B 078400.A 079005.A 081113.A	Drip Edge Sheet Metal Trim Reglet/Counter Gutter Downspout Through-Penetro Joint Sealant Steel Doors & Fro Steel Frame
	N.A.NOT APPLICABLEN.I.C.NOT IN CONTRACTN.T.S.NOT TO SCALEO.H.OVERHEADOPP.OPPOSITEORN.ORNAMENTALPEN.PENETRATIONPL.PLATEPOLYISO.POLYISOCYANURATP.S.F.POUNDS PER SQUAL	TE RF FOOT	ь. С. D.	OF MASONRY BY THE ARCHITI AT MASONRY CAVITY VENTS LOCATIONS OF ALLOW WEEPS BECOME CLOS REFER TO THE S INFORMATION	VENEER FOR ECT. VENEER, PRO AT 24" O.C. F WEEPS W/ V OR CAVITY N ED OFF. PECS. FOR M ON PLACEM	OBSERVATION VIDE WEEPS AND IORZ. ALTERNATE 'ENTS. DO NOT /ENTS TO ORE ENT AND	083100.A 083313.A 083323.A 084313.A 088000.A 092116.A 092116.C 092116.O	Access Door & I Coiling Counter Overhead Coilin Aluminum Store Glazing Gypsum Board Gypsum Board FRP Panels
	P.S.I.POUNDS PER SQUAIP.T.PRESSURE TREATEDRAD.RADIUSREINF.REINFORCEMENTRQD.REQUIREDREV.REVISION/ REVISEDR.D.ROOF DRAINSECT.SECTIONSIM.SIMILARSPECS.SPECIFICATIONS	REINCH	4. AT C. THRC OVEI THRC DO N PUNC WALL EXTER	INSTALLATION FLASHING, WEE AVITY WALL CONS DUGH-WALL FLASH STUDS, UPWARD DUGH-WALL FLASH NOT MECHANICAL CTURE THROUGH-V L FLASHING TO DIF RIOR FACE OF WA	OF THROUGH EPS, AND CA' STRUCTION, A IING ON CMI MIN. 6" AND IING AT ENDS LLY FASTEN, P WALL FLASHIN RECT ALL MO LL.	I-WALL VITY VENTS. ADHESIVE INSTALL U OR SHEATHING PAN-UP 5 MINIMUM 6". ENETRATE, OR NG. THROUGH- ISTURE TO	096513.A 099000.A 099600.A 101424.A 101424.B 101550.A 102800.A 107300.B 120000	Resilient Wall Ba Paint High Performan Signs Letters & Numbe Toilet Compartn Toilet & Bath Ac Wall Hung Metc Division 12 - Eur
	S.S.STAINLESS STEELSQ.SQUARESTD.STANDARDSTL.STEELSTRUCT.STRUCTURE/ STRUCTSYM.SYMMETRICALSYS.SYSTEMT.O.TOP OF SOMETHINCTHK.THICKTYP.TYPICALU.N.O.UNLESS NOTED OTHVERT.VERTICAL	TURAL G ERWISE	AND HEIG TO RI FOLL EXTEI STUD A.	/OR MTL. STUD WA HT TO BOTTOM OF EFLECTED CEILING OWING CLOSURE RIOR AND INTERIO WALLS AND PART FULL-HEIGHT, N PARTITION RUN METAL DECK FL TO WITHIN 1/2" METAL DECK FL SOUND ATTENL	ALLS SHALL EX F DECK AND I G PLANS. PRC MATERIALS A DR MASONRY ITIONS. ION-RATED M INING PERPE LUTE/STRUCTU OF METAL D LUTE VOID CO JATION BLAN	AND FULL BE SEALED. REFER DVIDE THE AT TOP OF AND METAL ATL STUD/GYP NDICULAR TO JRE: COPE GYP ECK FLUTE. FILL OMPLETELY W/ KET MATERIAL.	123550.A1 123550.A5 123550.B2 123550.B3 123550.D1 123550.F3 123550.L1 133416.C	Plastic Laminate Plastic Laminate Plastic Laminate Plastic Laminate Splashes 4" Wire Pull Countertop Sup (match A&M Ho 3-1/2" Dia. Gron Bleachers
	V.I.F. VERIFY IN FIELD W/ WITH W/O WITHOUT W.P. WORK POINT WT. WEIGHT SYMBOLS LE	GEND:	B.	INSTALL CONT. SIDES OR PROV NEOPRENE FILL FULL-HEIGHT, N PARTITION RUN DECK FLUTES/S' WITHIN 1/2" OF ACOUSTICAL S PROVIDE COM	ACOUSTICA /IDE COMPRI .ER. ION-RATED M INING PARAL TRUCTURE: ST METAL DECH EALANT BOTH IPRESSIBLE NE	L SEALANT BOTH ESSIBLE AETAL STUD/GYP LEL TO METAL OP GYP. TO (, INSTALL CONT. H SIDES OR EOPRENE FILLER.		
	0 0 0 BUIL 0 0.00 0.00 BUIL 0 0.00 0.00 SEC 0 0 DETAIL ELEV 0 0 0 ELEV	lding section Tion cut / Ail marker /ation	C.	RUNNING PERF METAL DECK FL TO WITHIN 1" C DECK FLUTE VC TO-FIT COMPRI SOUND ATTENL CONT. ACOUS FIRE-RATED FUL VOIDS AT META W/ FIRE BLANKI PER SECTION 0 THIS SHEFT	PENDICULAR LUTES/STRUCT DF METAL DEC DID COMPLET ESSIBLE NEOF JATION BLAN TICAL SEALAN LL-HEIGHT WA AL DECK/STRU ETS & INTUME 78400. REFER	OR PARALLEL TO FURE: LAY CMU CK. FILL METAL FELY WITH CUT- PRENE FILLER OR KET MATERIAL & NT BOTH SIDES. ALLS: FILL ALL JCTURE ABOVE, ESCENT SEALANT TO DETAILS ON		
	DETAIL DETAIL DETAIL REFE DRAWING # SPO	ERENCE DETAIL IT ELEVATION DF TYPES	E. 6. PRO BEAR WHE	CMU & GYP. C STOPPED 12" AI OF A FIRE- OR S CONSTRUCTIO VIDE CAULKED CC ING CMU ABUTS N RE WALLS OF DIFFE	COLUMN SURI BOVE CEILIN SOUND-RATE N. DNTROL JOIN NON-LOAD B ERENT HEIGH	ROUNDS MAY BE G UNLESS PART D WALL TS WHERE LOAD EARING CMU OR TS ABUT.		
NT NT	X" X TYPE WAIL SIZE	ll types. X'' denotes Of Cmu Or Stud. Or number		CONCRETE	FII	NISHED WOOD		
	00 ALU 00 ALU 00 DOC 00 DOC 00 FE-1	OOR FRAME TYPE MINUM WINDOW & REFRONT FRAME TYPE OR ELEVATION TYPES LL MOUNTED FIRE		MASONRY UNIT CLAY MASONRY UNIT	W	YWOOD OOD BLOCKING		
	FE-2 SEM WITI (104	NGUISHER (104400) II-RECESSED CABINET H FIRE EXTINGUISHER 1400)		SPLIT-FACE CONCRETE MASONRY UNIT GROUND-FACE CONCRETE MASONRY UNIT		avity wall sulation/perli roofing sulation Dlyiso. Dofing isulation		
	FIRE BARRIER	R TYPES:		CUT STONE STEEL	TH SC B/ IN G B/	iermal, Dund, or fire att- isulation Ypsum Dard		
1	SPSMOKE TIGHT PARTITION PARTITION WALL TO PERIMETER TO PROV INSTALLATION". SEAL(IHR)I HOUR RATING: PROV VOIDS AT THE TOP P PARTITION AND FIRE VERIFY WITH STRUCT	TION: EXTEND DECK ABOVE, SEAL VIDE "SMOKE TIGHT L ALL PENETRATIONS OVIDE FIRE SAFING AT ERIMETER OF THE ESAFE ALL PENETRATIONS. TURAL DRAWINGS AND		ALUMINUM	SF PL IN	PRAY-IN- .ACE IERMAL ISULATION		
	(2HR) <u>2 HOUR RATING</u> : PR VOIDS AT THE TOP P PARTITION AND FIRE VERIFY WITH STRUCT COORDINATE WITH	OVIDE FIRE SAFING AT ERIMETER OF THE ESAFE ALL PENETRATIONS. FURAL DRAWINGS AND WALL SECTIONS.						

EXIAL REFERENCE Material Dase Sonry Unit U CMU eps idashing orcement I Member I Countertop & Backsplash Dor Barrier Indation <	CC			$\frac{O}{Z}$ 101 old lafayette avenue Texington, kentucky 40502 p 859.254.4018
Irap & Irim	GENERAL ARCHITECTURAL DETAILS	MERCER COUNTY ATHLETICS IMPROVEMENTS - PHASE 1	MERCER COUNTY BOARD OF EDUCATION	HARRODSBURG, KENTUCKY
	M,E,& CMTA 220 Le Suite o Lexing p 859. Struct 220 G Nashv p 615. Projec Drawr Rev'd 1 2 3 4 5 6 7 8 CONS GEN	P Enginee A, Inc. exington C 600 gton, KY 4 253.0892 ural Engir ural Desig reat Circl rille, TN 37 255.5537 A By:E By:E SHEET R SHEET R SHEET R PYRIGHT TRUCTION CERAL ARC DET/	er: Green Circ 0503 heer: gn Group, e Rd. Suit 222-28 2203 3B/RK 3B/DS/RB 2ELEASE CELEASE CO CO CO CHITECTU	









REFERENCE nt ssories	A Cossiant and a contract the second of the
JUMBING FIXTURES AND TOILET THE PLUMBING ENGINEER. MS SHALL BE PROVIDED AND WNER: PTD, SD. SSORY LEGEND LAVATORY URINAL WATER CLOSET NGING STATION DUNTAIN ND DRYER R R R R R R R R R R R R R R R R R R	ENLARGED FLOOR PLANS MERCER COUNTY ATHLETICS IMPROVEMENTS - PHASE 1 FOR: MERCER COUNTY BOARD OF EDUCATION HARRODSBURG, KENTUCKY
	M.E.&P Engineer: CMTA, Inc. 220 Lexington Green Circle Suite 600 Lexington, KY 40503 p 859.253.0892 Structural Engineer: Structural Design Group, Inc. 220 Great Circle Rd. Suite 106 Nashville, TN 37228 p 615.255.5537 BB/RK Rev'd By: BB/RK Rev'd By: BB/DS/RB SHEET RELEASE 1 2 3 4 5 6 7 8 COPYRIGHT © 2022 CONSTRUCTION DOCUMENTS AT A A A A A S DATE ISSUED: APRIL 13, 2022



ЈМ МС	UNTING	HEIGHTS	FINISH LEGEND						
л On TO)	GRADE LEVEL		SPEC SECTION	KEY	BASIS OF DESIGN	ROOM NO.	ROOM NAME	FLOOR FINISH	B
	7 THRU 9	10 THRU 12	033000	SC1	SEALED CONCRETE	BB01	BASEBALL CONCESSIONS	RF1	RF1 In
Y BOARDS -	TOP 80"	TOP 80"		SC2	BROOM FINISHED SEALED CONCRETE	BB02	STORAGE	SC1	Color caulk
STANDING	BOHOM 32	BOTTOM 34	064100	STST	STAINLESS STEEL - CONCESSIONS COUNTER	BB03	STAIR	SC1 (1st Floor), RT1 (2nd Floor), & RTR1	RB1
I (TOP)	34"	36"		SS1	SOLID SURFACE COUNTER - RESTROOM (TBD)	BB05		at Stair RT1	RB1
ABLETOP: FION (TOP)	26"	27"		PLYL1	PLYWOOD LOCKERS	BB06	HOME DUGOUT	SC2	Color
CE DOOR CENTERLINE)	40''	42"	_		BAT AND HELMET RACKS	BB07		SC1	RB1
			_		TREX AND WOOD BENCHING	BBU9	VISITOR DUGOUI	302	caulk
GUISHER OTTOM)	40"		092116	FRP1	FRP PANELS	SB01	SOFTBALL CONCESSIONS	RF1	RF1 In
						SB02	MEN	RF1	RF1 In
HER CABINET 'ALVE LINE)	64"		096500	RT1	RESILIENT TILE FLOORING - PRESS BOX	SB03	STORAGE	SC1	Color caulk
IOOK	.54"	55"	096513	RB1	TYP. 4"H RUBBER COVE BASE	SB04	MECH	SC1	Color caulk
rline)	04		096723	RF1	RESINOUS FLAKE EPOXY & BASE	SB05	WOMEN	RF1	RF1 In
			099000	P1	TYPICAL PAINT	SB06	STAIR	(2nd Floor), & RTR1 at Stair	RRI
				AP	ACCENT PAINT UP TO 5 COLORS	SB07	SOFTBALL PRESSBOX	RT1	RB1
			101424		SIGNAGE	SB08	HOME DUGOUT	SC2	Color caulk
						SB09	CHANGING ROOM	SC1	RB1
			101550		TOILET COMPARTMENTS	SB10	VISITOR DUGOUT	SC2	Color caulk
			102800		TOILET ACCESSORIES				
			123550	HPL1	TYP. HIGH PRESSURE LAMINATE BASE & WALL CABINETS				















NOT FOR TAXABLE AVAILED TO TAKE TABLE TO TAKE TO A TAXABLE TO TAKE TABLE TO TAKE TAXABLE TO TAXA					
BUILDING & WALL SECTIONS	MERCER COUNTY ATHLETICS IMPROVEMENTS - PHASE 1 FOR: MERCER COUNTY BOARD OF EDUCATION HARRODSBURG, KENTUCKY				
<u>M,E,&</u> CMTA 220 Le Suite & Lexing p 859. <u>Struct</u> 220 G Nashv p 615.	<u>P Engineer</u> : , Inc. exington Green Circle 300 yton, KY 40503 253.0892 <u>ural Engineer</u> : ural Design Group, Inc. reat Circle Rd. Suite 106 rille, TN 37228 255.5537				
BG Projec Drawr Rev'd 1 2 3 4 5 6 7 8 COF CONS	py: 22-282 t No: 2203 By: BB/RK By: BB/DS/RB SHEET RELEASE PYRIGHT © 2022 TRUCTION DOCUMENTS ABBI 13, 2000				
	BUILD				



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& Trim
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Coating
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REVISIONS									
#	DATE DESCRIPTION								





HEAD



(083323.A) TRACK

JAMB Z⊁⊢

DOOR

(033000.C) SILL

						SCHEE	DULE C	of DO	ORS A	ND FF	RAMES			
DOOR								FRAME						
DOOR										FRAME	D	ETAIL		
NUMBER	PAIR	W	Н	THICK	MAT	TYPE	GLASS	MAT	TYPE	THICK	HEAD	JAMB	FIRE RATING	COMMENTS
BASEBALL (ONCESS	ions buildi	NG											
BB01.1	-	3' - 0''	7' - 0''	1 3/4"	НM	F	-		1	5 3/4"	C/A6.1	D/A6.1		
BB01.2	-	6' - 0''	4' - 0''	2"	AL	CD	-				H/A6.1	J/A6.1	SEE 0	83313
BB01.3	-	6' - 0''	4' - 0''	2"	AL	CD	-				H/A6.1	J/A6.1	SEE 0	83313
BB02.1	-	3' - 0''	7' - 0''	1 3/4"	НM	F	-	НM	1	5 3/4"	C/A6.1	D/A6.1		
BB02.2	-	8' - 0''	7' - 4''	2"		OH	-				G/A6.1	G/A6.1		
BBO3	-	3' - 0''	7' - 0''	1 3/4"	НM	F	-	HM	1	5 3/4"	C/A6.1	D/A6.1		
BBO4	-	3' - 0''	7' - 0''	1 3/4"	HM1	F	-	НM	1	5 3/4"	C/A6.1	D/A6.1		
BASEBALL H	IOME DU	GOUT												
BBO6	-	3' - 0''	7' - 0''	1 3/4"	HM	F	-	HM	1	4 5/8"	C/A6.1	D/A6.1		
Softball C	ONCESS	IONS BUILDI	٩G											
SB01.1	-	3' - 0''	7' - 0''	1 3/4"	НM	F	-	HM	1	5 3/4"	C/A6.1	D/A6.1		
SB01.2	-	6' - 0''	4' - 0''	2"	AL	CD	-				H/A6.1	J/A6.1	SEE 0	83313
SB01.3	-	6' - 0''	4' - 0''	2"	AL	CD	-				H/A6.1	J/A6.1	SEE 0	83313
SBO2	-	3' - 0''	7' - 0''	1 3/4"	HM	F	-	HM	1	5 3/4"	C/A6.1	D/A6.1		
SB03	-	3' - 8''	7' - 0''	1 3/4"	HM	F	-	HM	1	5 3/4"	C/A6.1	D/A6.1		
SB05	-	3' - 0''	7' - 0''	1 3/4"	HM	F	-	НM	1	5 3/4"	C/A6.1	D/A6.1		
SBO6	-	3' - 0''	7' - 0''	1 3/4"	HM	F	-	HM	1	5 3/4"	C/A6.1	D/A6.1		
SB07	-	3' - 0''	7' - 0''	1 3/4"	HM	F	-	HM	1	5 3/4"	C/A6.1	D/A6.1		
SOFTBALL F	OME DU	GOUT									-			
SB08	-	3' - 0''	7' - 0''	1 3/4"	НM	F	-		1	5 3/4"	C/A6.1	D/A6.1		

Concrete Mason
Joint Sealant
Steel Doors & Fra
Steel Frame
Aluminum Storefr
Glazing







MECHANICAL SITE NOTES

- A DO NOT SCALE FROM MECHANICAL AND ELECTRICAL DRAWINGS. FIELD VERIFY REQUIRED DIMENSIONS.
- B CONTRACTOR SHALL CUT AND PATCH ALL PAVEMENT, CURBING, etc. AS REQUIRED FOR WORK. CONTRACTOR SHALL REPAIR ALL LANDSCAPING THAT IS DAMAGED FOR WORK.
- C FEDERAL, STATE, LOCAL, MUNICIPALITY AND UTILITY COMPANY CODES, RULES, REGULATIONS AND REQUIREMENTS APPLY UNLESS EXCEEDED BY THIS DESIGN.
- D WHEN INTERRUPTION OF AN EXISTING UTILITY OR SERVICES IS PLANNED OR OCCURS ACCIDENTALLY, THE CONTRACTOR(S) SHALL WORK CONTINUOUSLY AS NEEDED TO RESTORE SAME PROVIDING
- PREMIUM TIME AS NEEDED AT NO INCREASE IN THE CONTRACT PRICE. E PLANNED INTERRUPTION OF ANY SERVICE SHALL BE COORDINATED WITH THE APPROPRIATE MUNICIPALITY OR UTILITY COMPANY, THE ARCHITECT AND THE BUILDING OPERATORS AT LEAST ONE WEEK IN ADVANCE OF ANTICIPATED INTERRUPTION. A SCHEDULE FOR THESE OUTAGES SHALL BE
- DEVELOPED AND AGREED UPON BETWEEN THE PARTIES MENTIONED TO AVOID UNNECESSARY INCONVENIENCE TO THE OWNER OR ANY AFFECTED PARTY. NOTIFY THE UTILITY COMPANY OF ANY ANTICIPATED SERVICES REQUIRED FROM THEM AT LEAST TWO WEEKS IN ADVANCE IN WRITING AND
- INSURE THAT THEY DO NOT DELAY WORK. F LOCATIONS, DEPTHS, MATERIAL TYPES, ELEVATIONS, ETC. OF ALL APPURTENANCES, LINES, BUILDINGS, ETC. INDICATED ON THESE DRAWINGS WERE TAKEN FROM VARIOUS SOURCES, ARE DIAGRAMMATIC ONLY AND ARE SUBJECT TO SUBSTANTIAL VARIATION FROM EXISTING CONDITIONS. EXISTING UTILITIES LOCATIONS MAY VARY (CONSEQUENTLY ALL CONTRACTORS SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK SO AS INSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE. FOR SAFETY PURPOSES, PAY PARTICULAR ATTENTION TO THIS PRECAUTION
- RELATIVE TO NATURAL GAS AND ELECTRICAL LINES. ALL WORK SHALL BE PERFORMED IN ACCORD WITH ALL FEDERAL, STATE, AND/OR LOCAL RULES, REGULATIONS, STANDARDS AND SAFETY REQUIREMENTS. UTILITIES SHALL ALSO BE INSTALLED IN ACCORD WITH THE APPLICABLE MUNICIPALITY OR UTILITY COMPANY STANDARDS. IN ALL CASES, THE MOST STRINGENT REQUIREMENT SHALL APPLY. IF ANY VARIATION OCCURS, CONSULT THE BUILDING ENGINEER AND
- THE MECHANICAL ENGINEER'S REPRESENTATIVE). CONTRACTOR SHALL VISIT SITE AND FIELD VERIFY THE ROUTING OF ALL UTILITIES G CONTRACTOR SHALL VERIFY EXACT LOCATION OF OUTDOOR RECEPTACLES WITH OWNER PRIOR TO ROUGH-IN.
- H CONTRACTOR SHALL REFER TO CIVIL PLANS FOR COORDINATION WITH OTHER UTILITIES. I COORDINATE ELEVATION AND LOCATION OF ALL CONDUITS ENTERING BUILDING WITH STRUCTURAL FOUNDATION. CONDUIT SHALL PASS THROUGH STEM WALL OF FOUNDATION OR UNDER FOOTING AS REQUIRED.
- J THE LOCATIONS OF UTILITIES SHOWN WITHIN THESE DRAWINGS ARE APPROXIMATE ONLY. K THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY EXCAVATION WORK REQUIRED TO LOCATE UNDERGROUND UTILITIES. THE CONTRACTOR IS ALSO REQUIRED TO NOTIFY ANY OTHER AFFECTED UTILITY OWNERS PRIOR TO DIGGING. IN THE EVENT OF ACCIDENTAL INTERRUPTION OF SERVICE,
- CONTRACTOR WILL IMMEDIATELY NOTIFY THE OTHER UTILITY OWNERS. L THE UTILITY/CONTRACTOR WILL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD OTHER EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. IN THE EVENT THAT SPECIAL EQUIPMENT IS REQUIRED TO WORK OVER AND AROUND THE OTHER UTILITIES. THE UTILITY WILL BE REQUIRED TO FURNISH SUCH EQUIPMENT
- M COORDINATE UNDERGROUND ELECTRICAL WITH ALL LANDSCAPING AND FENCING, ADJUST ELECTRICAL LINES TO AVOID CONFLICTS. REFER TO LANDSCAPING PLANS FOR FURTHER INFORMATION. AVOID ROUTING UNDERGROUND CONDUITS UNDER ROADWAYS OR PARKING LOTS,
- CROSS ROADWAYS WITH UNDERGROUND CONDUITS AT 90 ANGLES WHERE POSSIBLE. N IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO ENSURE THAT ANY ABANDONED PIPING UNCOVERED IN THE COURSE OF THEIR WORK SHALL BE CAPPED WATER TIGHT.
- O TRENCHES FOR UTILITIES SHALL BE BACKFILLED PER MECHANICAL DETAILS AND SPECIFICATIONS. PAVEMENT, ASPHALT, AND OTHER SURFACE WORK SHALL BE PER CIVIL ENGINEERING DRAWINGS AND SPECIFICATIONS.
- P THE CONTRACTOR SHALL ADJUST ALL EXISTING MANHOLE RINGS AND COVERS AFFECTED BY THIS PROJECT AS NECESSARY TO BE FLUSH WITH NEW GRADE.
- Q CONTRACTOR SHALL COORDINATE RESPONSIBILITIES WITH CONSTRUCTION MANAGER. REFER TO SPECIFICATIONS FOR REQUIREMENTS.
- R THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION AND SIZING OF ALL EXPANSION LOOPS PER PIPING MANUFACTURER'S REQUIREMENTS.
- S REFER TO ARCHITECT'S PHASING PLAN FOR CONSTRUCTION PHASING REQUIREMENTS.

SITE UTILITIES LEGEND

	EXISTING, DEMOLITION, NEW WORK
S S S	SANITARY MANHOLE
	FIRE HYDRANT
\otimes \otimes \otimes	WATER VALVE
ECO <u>D(ECO)</u> ECO	EXTERIOR CLEANOUT
$\begin{array}{c c} TB & \underline{D}(TB) & TB \\ \bullet & \bullet & \bullet \\ \bullet & \bullet & \bullet \\ \end{array}$	THRUST BLOCK
xxx	NEW PIPING - (XXX) DENOTES SYSTEI
D(XXX)	PIPING TO BE DEMOLISHED - (XXX) DE
—_E(XXX)—	EXISTING PIPING - (XXX) DENOTES SY
——A(XXX)—	ABANDONED IN PLACE PIPING - (XXX)
OP	OVERHEAD PRIMARY
OS	OVERHEAD SECONDARY
OSL	OVERHEAD STREET LIGHT
OTS	OVERHEAD TRAFFIC SIGNAL
OT	OVERHEAD TELECOMMUNICATIONS
OF	OVERHEAD FIBER OPTIC
OTV	OVERHEAD CATV
UP	UNDERGROUND PRIMARY
US	UNDERGROUND SECONDARY
USL	UNDERGROUND STREET LIGHT
UTS	UNDERGROUND TRAFFIC SIGNAL
UT	UNDERGROUND TELECOMMUNICATIO
UF	UNDERGROUND FIBER OPTIC
UTV	UNDERGROUND CATV
CHW	CHILLED WATER
W	DOMESTIC WATER
HPS/R	HIGH PRESSURE SUPPLY/R
PD	PUMPED DISCHARGE RETURN
SS	SANITARY SEWER
STORM	STORM

UTILITY COMPANY CONTACTS:

WATER SEWER: HARRODSBURG WATER DEPT TOM HOWELL FIRE CHIEF: HARRODSBURG FIRE DEPARMENT SCOTT HAMMONS

IT IS THE CONTRACTORS RESPONSIBILITY TO MEET ALL LOCAL ORDINANCE AND MUNICIPAL REQUIREMENTS RELATED TO UTILITY INSTALLATION, INSPECTIONS, MATERIALS, FEES, ETC.

CONTACT "BUD (BEFORE YOU DIG)" AT 1-800-752-6007 TO OBTAIN UNDERGROUND UTILITY LOCATIONS PRIOR TO ANY CONSTRUCTION. ANY CONTRACTOR OR SUBCONTRACTOR PERFORMING ANY TYPE OF EXCAVATION ON THIS PROJECT SHALL CALL "BUD" TO OBTAIN AN AUTHORIZATION

ELECTRICAL SITE NOTES

- A DO NOT SCALE FROM MECHANICAL AND ELECTRICAL DRAWINGS. FIELD VERIFY REQUIRED I WITH CIVIL DRAWINGS AND SURVEYS. B REFER ALSO TO ALL OTHER PLANS AND THE SPECIFICATION, BUT ESPECIALLY TO: THE SITE SITE PLAN, THE SITE GRADING PLAN, THE PLANTING PLAN (WHERE AVAILABLE), FOUNDATIC
- MECHANICAL & ELECTRICAL FLOOR PLANS FOR SERVICE CONTINUATIONS, THE SITE UTILITY ELECTRICAL. WHERE THERE ARE CONFLICTS AMONG THESE PLANS AND/OR RELATED SPECI ENGINEERS AT LEAST TEN DAYS PRIOR TO SUBMISSION OF BIDS.
- C ALL FEES AND ANY OTHER COSTS TO UTILITY COMPANIES, MUNICIPALITIES, INSPECTORS, F TO BE INCLUDED AS A PART OF THIS CONTRACT. D FEDERAL, STATE, LOCAL, MUNICIPALITY AND UTILITY COMPANY CODES, RULES, REGULATION
- UNLESS EXCEEDED BY THIS DESIGN. E WHEN INTERRUPTION OF AN EXISTING UTILITY OR SERVICE IS PLANNED OR OCCURS ACCID SHALL WORK CONTINUOUSLY AS NEEDED TO RESTORE SAME PROVIDING PREMIUM TIME AS THE CONTRACT PRICE.
- F LOCATIONS, DEPTHS, MATERIAL TYPES, ELEVATIONS, ETC. OF ALL APPURTENANCES, LINES, ON THESE DRAWINGS WERE TAKEN FROM VARIOUS SOURCES, ARE DIAGRAMMATIC ONLY AN SUBSTANTIAL VARIATION FROM EXISTING CONDITIONS, EXISTING UTILITIES LOCATIONS MA CONTRACTORS SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK SO AS TO INTERRUPT ANY EXISTING SERVICE. FOR SAFETY PURPOSES, PAY PARTICULAR ATTENTION TO NATURAL GAS AND ELECTRICAL LINES. ALL WORK SHALL BE PERFORMED IN ACCORDANC
- AND/OR LOCAL RULES, REGULATIONS, STANDARDS AND SAFETY REQUIREMENTS. G PROVIDE LONG RADIUS ELBOWS FOR UNDERGROUND CONDUIT BENDS. WHERE SERVING A TRANSFORMER, THE UTILTY STANDARDS SHALL TAKE PRECEDENCE. H UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE MUNICIPALITY OR U
- IN ALL CASES, THE MOST STRINGENT REQUIREMENT SHALL APPLY. IF ANY VARIATION OCCU CONTRACTOR SHALL VISIT THE SITE AND FIELD VERIFY THE ROUTING OF ALL UTILITIES NEW SUBMISSION OF BIDS. SUBMISSION OF A BID PROPOSAL INDICATES THAT THE CONTRACTO OBSTRUCTIONS AND WILL INSTALL ALL OF THE NEW UTILITIES WITHOUT REQUESTS FOR A I PROVIDE GALVANIZED RIGID CONDUIT FOR EXTERIOR UNDERGROUND TRANSITIONS TO AB
- A MINIMUM OF 6" ABOVE GRADE. J CONTRACTOR SHALL PERFORM A SMOKE TEST ON ALL CONDUITS INSTALLED ON SITE AND S CORRECTIVE ACTION IF NOT FOUND IN COMPLIANCE WITH FACILITY STANDARDS. K CONTRACTOR SHALL CONTACT ENGINEER FOR INSPECTION OF TRENCHES PRIOR TO INSTAL
- RACEWAYS. PROVIDE PHOTOS UPON REQUEST. L CONTRACTOR SHALL CUT AND PATCH ALL PAVEMENT, CURBING, ETC. AS REQUIRED FOR WO REPAIR ALL LANDSCAPING THAT IS DAMAGED FOR WORK. FINISH GRADE, SEED AND STRAW
- SPACES. ALL PATCH AND REPAIR WORK SHALL BE IN ACCORDANCE WITH BOTH CIVIL AND L SPECIFICATIONS. M COORDINATE UNDERGROUND ELECTRICAL WITH ALL LANDSCAPING AND FENCING, ADJUST E CONFLICTS. REFER TO LANDSCAPING PLANS FOR FURTHER INFORMATION. AVOID ROUTING UNDER ROADWAYS OR PARKING LOTS, CROSS ROADWAYS WITH UNDERGROUND CONDUITS
- POSSIBLE. N PLANNED INTERRUPTION OF ANY SERVICE SHALL BE COORDINATED WITH THE APPROPRIATE COMPANY, THE ARCHITECT, AND THE BUILDING OPERATORS AT LEASTE ONE WEEK IN ADVA INTERRUPTION. A SCHEDULE FOR THESE OUTAGES SHALL BE DEVELOPED AND AGREED UPOI MENTIONED TO AVOID UNNECESSARY INCONVENIENCE TO THE OWNER OR ANY AFFECTED P
- COMPANY OF ANY ANTICIPATED SERVICES REQUIRED FROM THEM AT LEAST TWO WEEKS IN INSURE THAT THEY DO NOT DELAY WORK. O THE LOCATIONS OF UTILITIES SHOWN WITHIN THESE DRAWINGS ARE APPROXIMATE ONLY. P THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY EXCAVATION WORK REQUIRED TO LOCA THE CONTRACTOR IS ALSO REQUIRED TO NOTIFY ANY OTHER AFFECTED UTILITY OWNERS F EVENT OF ACCIDENTAL INTERRUPTION OF SERVICE, CONTRACTOR WILL IMMEDIATELY NOTI
- OWNERS. Q THE CONTRACTOR WILL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD (FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. IN THE EVENT THAT SPECIAL EQ WORK OVER AND AROUND THE OTHER UTILITIES. THE UTILITY WILL BE REQUIRED TO FURN
- R CONTRACTOR SHALL PAY ALL TAP FEES, UTILITY COST, UTILITY CONNECTION COSTS, METER DEVELOPMENT CHARGES. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS S THE UTILITY WILL PROVIDE STAKING DATA INCLUDING NORTHING AND EASTING DATA AS R DRAWINGS.
- T REATTACH ALL TAPS AND TRANSFORMERS AS TO MAINTAIN EXISTING PHASE CONNECTIONS U CONTRACTOR RESPONSIBLE FOR MAINTAINING DOWNSTREAM SERVICE FROM REMOVED EQ BUT NOT LIMITED TO SITE LIGHTING, TRANSFORMERS, ETC.
- V WHEN DEMOLITION OF AN ELECTRICAL DEVICE (OR CIRCUIT) IS INDICATED ON THE DRAWI ENSURE THAT OTHER DEVICES OR EQUIPMENT "UPSTREAM" OR "DOWNSTREAM" ON THE CI "PRE-DEMOLITION" WORKING ORDER. "LEFT-OVER" CIRCUIT BREAKERS SHALL REMAIN, BE S AND BE LABELED AS SPARES IN THEIR PANELS. PROVIDE NEW TYPEWRITTEN DIRECTORIES F W REMOVE ALL ASSOCIATED BACKBOXES, CONDUIT AND CONDUCTORS FOR DEVICES/FIXTURES
- TO SOURCE), WHETHER INDICATED OR NOT (UON). X COORDINATE DISPOSAL OF ALL FIXTURES, DEVICES, ETC. (INDICATED FOR DEMOLITION) W REMOVED TO OWNER AT THEIR OPTION.
- Y COORDINATE WITH OTHER TRADES FOR THE REMOVAL AND/OR RELOCATION OF ELECTRICA ASSOCIATED WITH THEIR EQUIPMENT.

SITE UTILITIES LEGEND

	EXISTING, DEMOLITION, NEW WORK
S S S	SANITARY MANHOLE
	FIRE HYDRANT
\otimes \otimes \otimes	WATER VALVE
	EXTERIOR CLEANOUT
$\begin{array}{c c} TB & D(TB) & TB \\ \hline \bullet & \bullet & \bullet \\ \hline \bullet & \bullet \\ \hline$	THRUST BLOCK
xxx	NEW PIPING - (XXX) DENOTES SYSTEM
D(XXX)	PIPING TO BE DEMOLISHED - (XXX) DENC
—–E(XXX)—	EXISTING PIPING - (XXX) DENOTES SYSTI
——A(XXX)—	ABANDONED IN PLACE PIPING - (XXX) DE
OP	OVERHEAD PRIMARY
OS	OVERHEAD SECONDARY
OSL	OVERHEAD STREET LIGHT
OTS	OVERHEAD TRAFFIC SIGNAL
OT	OVERHEAD TELECOMMUNICATIONS
OF	OVERHEAD FIBER OPTIC
OTV	OVERHEAD CATV
UP	UNDERGROUND PRIMARY
US	UNDERGROUND SECONDARY
USL	UNDERGROUND STREET LIGHT
UTS	UNDERGROUND TRAFFIC SIGNAL
UT	UNDERGROUND TELECOMMUNICATIONS
UF	UNDERGROUND FIBER OPTIC
UTV	UNDERGROUND CATV
CHW	CHILLED WATER
W	DOMESTIC WATER
—HPS/R—	HIGH PRESSURE SUPPLY/R
PD	PUMPED DISCHARGE RETURN
SS	SANITARY SEWER
—STORM—	STORM

UTILITY COMPANY CONTACTS: POWER: COMPANY FirstName LastName TELEPHONE: COMPANY FirstName LastName CABLE TELEVISION:

COMPANY	FirstName LastName
WATER SEWER:	
COMPANY	FirstName LastName
GAS:	
COMPANY	FirstName LastName
FIRE CHIEF:	

FIRE DEPARMENT

IT IS THE CONTRACTORS RESPONSIBILITY TO MEET ALL LOCAL ORDI **REQUIREMENTS RELATED TO UTILITY INSTALLATION, INSPECTIONS**

FirstName LastName

BEFORE YOU DIG

THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL CONTACT "BUD (BEFORE YOU DIG)" AT 1-800-752-6007 TO OBTAIN UNDERGROUND UTILITY LOCATIONS PRIOR TO ANY CONSTRUCTION. ANY CONTRACTOR OR SUBCONTRACTOR PERFORMING ANY TYPE OF EXCAVATION ON THIS PROJECT SHALL CALL "BUD" TO OBTAIN AN AUTHORIZATION NUMBER.

	[]
DIMENSIONS AND COORDINATE E SURVEY, THE ARCHITECTURAL ON PLAN(S), APPROPRIATE Y PLAN - MECHANICAL & IFICATIONS, ADVISE THESE REVIEWING AGENCIES, ETC. ARE ONS AND REQUIREMENTS APPLY DENTALLY, THE CONTRACTOR(S) S NEEDED AT NO INCREASE IN BUILDINGS, ETC. INDICATED ND ARE SUBJECT TO IAY VARY. CONSEQUENTLY ALL ENSURE THAT THEY DO NOT TO THIS PRECAUTION RELATIVE CE WITH ALL FEDERAL, STATE, UTILITY OWNED UTILITY COMPANY STANDARDS. URS, CONSULT THE ENGINEER. W AND EXISTING PRIOR TO DR IS FULLY AWARE OF ALL NY ADDITIONAL CHANGES. BOVE GRADE; EXTEND CONDUIT SHALL TAKE ALL NECESSARY LLATION OF CONDUITS OR	NOT FOR TANK ADD 101 old lafayette avenue Texington, kentucky 40502 p.859.254.4018
CRK. CONTRACTOR SHALL VALL DISTURBED GREEN LANDSCAPE DRAWINGS AND ELECTRICAL LINES TO AVOID UNDERGROUND CONDUITS AT 90 ANGLES WHERE TE MUNICIPALITY OR UTILITY ANCE OF ANTICIPATED ON BETWEEN THE PARTIES PARTY. NOTIFY THE UTILITY N ADVANCE IN WRITING AND	CMTA
PRIOR TO DIGGING. IN THE IFY THE OTHER UTILITY OTHER EXISTING UTILITIES QUIPMENT IS REQUIRED TO NISH SUCH EQUIPMENT. REFES, EXTENSION AND S. QUIPMENT ON SITE. INCLUDING INGS: THE CONTRACTOR SHALL RCUITS SHALL REMAIN IN SWITCHED TO OFF POSITION, FOR ALL PANELS AFFECTED. IS/ETC. BEING REMOVED (BACK AITH OWNER. TURN OVER ITEMS AL DEVICES AND CONNECTIONS INCLUES AND CONNECTIONS INCLUES AND CONNECTIONS INCLUES AND CONNECTIONS INCLUES AND CONNECTIONS INCLUES SYSTEM	ELECTRICAL SITE UTILITY PLANS MERCER COUNTY ATHLETICS IMPROVEMENTS - PHASE 1 FOR: MERCER COUNTY BOARD OF EDUCATION HARRODSBURG, KENTUCKY
	M,E,&P Engineer: CMTA, Inc. 2429 Members Way Lexington, KY 40504 p 859.253.0892 <u>Structural Engineer</u> : Brown + Kubican, PSC 2224 Young Dr. Lexington, KY 40505 p 859.543.0933
### ###.#### ### ###.#### ### ###.#### ### ###.#### ### ###.#### INANCE AND MUNICIPAL	BG# 22-282 Project No: 2203/XMBS22 Drawn By: Author Rev'd By: Checker SHEET RELEASE 1 2 3 3 4 5 6 7 8 COPYRIGHT © 2022 CONSTRUCTION DOCUMENTS JUE1_CO ELECTRICAL SITE UTILITY PLANS
, MATERIALS, FEES, ETC.	DATE ISSUED: APRIL 13, 2022

PLUMBING GENERAL NOTES	ABBREVI/	ATIONS			ABB	REVIA	TIONS (CON)	
A COORDINATE THE LOCATION OF DRAINS, THERMOSTATS, GAS OUTLETS, ETC., WITH ALL CASEWORK EQUIPMENT, MECHANICAL ROOM EQUIPMENT, ETC., PRIOR	AC	ALTERNATING CURRE	ENT							
REMOVED AND PROPERLY INSTALLED AT THE EXPENSE OF THE CONTRACTOR.	ADJ	ADJUSTABLE				FL	FLOOR			
WORK SO AS TO ENSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE.	AFF	ABOVE FINISHED FLC	DOR			FLA	FULL LOAD AMPS	5		
RELATIVE TO NATURAL GAS AND ELECTRICAL LINES. VERIFY THE LOCATION, SIZE, TYPE, ETC., OF FACH UNDERGROUND OR OVERHEAD, UTILITY, ALL WORK	AFR	ABOVE FINISHED RO	OF			FOB	FLAT ON BOTTO	M		
SHALL BE PERFORMED IN ACCORD WITH ALL FEDERAL, STATE AND/OR LOCAL RULES, REGULATIONS, STANDARD AND SAFETY REQUIREMENTS. UTILITIES	AFUE		ATION FEFICIENCY			FOT	FLAT ON TOP			
SHALL BE INSTALLED IN ACCORD WITH THE APPLICABLE MUNICIPALITY OR UTILITY COMPANY STANDARDS. IN ALL CASES, THE MOST STRINGENT										
REQUIREMENT SHALL APPLY. C ALL NEW WORK SHALL BE HUNG FROM STRUCTURE, NOT FROM THE WORK OF	АПЈ		JORISDICTION							
OTHER TRADES, WHETHER EXISTING OR NEW. D COORDINATE ALL WORK WITH PROJECT PHASING REQUIREMENTS.	AMP	AMPERE (AMP, AMPS))			FPM	FEET PER MINUT	Ë		
E PATCH, REPAIR AND PAINT OR PROVIDE WALL COVERING FOR (TO OWNER'S STANDARDS) EXISTING WALLS, CEILINGS, ETC., THAT ARE TO REMAIN IF	ANSI	AMERICAN NATIONAI	L STANDARD INSTITUTE	E		FPS	FEET PER SECON	1D		
DAMAGED DURING CONSTRUCTION. REPAIRS SHALL MATCH ADJACENT SURFACES TO THE SATISFACTION OF THE ARCHITECT AND OWNER.	APD	AIR PRESSURE DROP			_	FT	FEET OR FOOT			
F OBSERVE ALL APPLICABLE CODES, RULES AND REGULATIONS THAT MAY APPLY TO THE WORK UNDER THIS CONTRACT. (CITY, COUNTY, LOCAL, FEDERAL,	ASHRAE	AMERICAN SOCIETY	OF HEATING, REFRIGER ENGINEERS	RATION, AND		FUT	FUTURE			
MUNICIPALITY, UTILITY COMPANY, COMMONWEALTH OF KENTUCKY, ETC.) G CONTRACTOR SHALL BE AWARE OF UNSEEN PLUMBING WORK DURING						FV	FACE VELOCITY			
DEMOLITION. IF ITEMS ARE UNCOVERED DURING DEMOLITION THEN FIELD VERIFY THE USE OF THE ITEMS AND PLAN AN ALTERNATE ROUTE TO RUN THESE	AVG	AVERAGE				GA	GAGE/GAUGE			
ITEMS. THEN CONTACT THE ENGINEERS TO REVIEW THE ROUTING. H ALL PENETRATIONS OF FIRE AND SMOKE RATED ASSEMBLIES SHALL BE						GAL				
APPROPRIATELY FIRE STOPPED PER AN APPROVED U.L. LISTED STANDARD. CONTRACTOR SHALL PAY PARTICULAR ATTENTION TO INSULATED PIPING							GALLON (-3)			
PENETRATIONS. I ALL WORK REQUIRING DOWNTIME OF ANY AREA IN THE BUILDING SHALL BE	BHP	BREAK HORSEPOWER	{			GC	GENERAL CONTR	ACTOR		
SCHEDULED 2 WEEKS IN ADVANCE. J ALL PIPING IN ROOMS WITH CEILINGS SHALL BE ABOVE CEILING EXCEPT AS	BTU	BRITISH THERMAL UI	NIT			GPD	GALLONS PER DA	4Y		
NOTED.	САР	CAPACITY			_	GPH	Gallons per ho	JUR		
COMPLIANCE WITH PLANS APPROVED BY AND BEARING THE APPROVAL STAMP OF THE KENTUCKY DIVISION OF PLUMBING AND/OR THE DIVISION OF WATER. THE						GPM	GALLONS PER MJ	INUTE		
CONTRACTOR SHALL NOT BEGIN WORK UNTIL HE HAS RECEIVED SUCH APPROVED PLANS.	CD	CONDENSATE DRAIN				GR	GRAINS			
L LOCATIONS OF PIPING AND EQUIPMENT ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD. DO NOT SCALE THE DRAWINGS.	CEM		UTE			н	HUMIDITY			
M ALL OFFSETS IN PIPING ARE NOT NECESSARILY SHOWN. PROVIDE ADDITIONAL OFFSETS WHERE NECESSARY										
N THE CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY COMPANY FEES OR OTHER COSTS THAT ANY LITH ITY COMPANY MAY PEOLITEE TO COMPLETE THEIR WORK	C.I.					ΠU				
(GAS, SEWER, WATER, ETC.).	CLG	CEILING				HG	MERCURY			
MANUFACTURER'S INSTALLATION INSTRUCTION. IF IN CONFLICT WITH THE DESIGN INDICATED IN CONTRACT DOCUMENTS, ADVISE THE ENCINEERS, DRIOD	CLR	CLEAR			HH	ORIZ	HORIZONTAL			
TO INSTALLATION FOR CLARIFICATION. PROVIDE RECOMMENDED ACCESS AND SERVICE CLEARANCES FOR ALL FOLLIPMENT	СО	CARBON MONOXIDE				HP	H (-ORSEPOWER	., -eat pump	?)	
P SEAL AIRTIGHT AROUND ALL DUCTS AND PIPING PENETRATIONS THROUGH WALLS FLOORS AND ROOF PROVIDE FIRE STORDING IN FIRE PARTITION						HR	HOUR (-S)			
Q THE CONTRACTOR SHALL RELOCATE OR AVOID ANY EXISTING EQUIPMENT	COND	CONDENS (-ER, -ING	, -ATION, -ATE)			IVAC	HEATING, VENTI	(LATING, & /	AIR-CONDIT	IONING
R WHERE MOUNTING HEIGHTS ARE NOT INDICATED OR ARE IN CONFLICT WITH ANY OTHER BUILDING SYSTEM, CONTACT THE ENGINEERS RECORE INSTALLATION	CONT)			Hz	HERT7			
REFER ALSO TO ARCHITECTURAL WALL INTERIOR AND EXTERIOR WALL ELEVATIONS, CEILING HEIGHTS AND OTHER DETAIL OF THESE DOCUMENTS)			112				
S ANY VIBRATING, OSCILLATING OR OTHER NOISE OR MOTION PRODUCING		CUBIC FEET				ID	I (-DENTIFICATIO	ON, -NSIDE	DIAMETER,	-NSIDE
MANNER. NOISY OR STRUCTURALLY DAMAGING INSTALLATIONS SHALL BE SATISFACTORILY REPLACED OR REPAIRED AT THE INSTALLING CONTRACTOR'S	CU IN	CUBIC INCHES				IN	INCH (-ES)			
EXPENSE. THE FINAL DECISION ON THE SUITABILITY OF A PARTICULAR INSTALLATION'S ACCEPTABILITY SHALL BE THAT OF THE ENGINEER.	CV	VALVE FLOW COEFFI	CIENT		I	NSUL	INSULAT (-ED, -I	(ON)		
T DEVIATIONS IN SIZE, CAPACITIES, FIT, FINISH, ETC. FOR EQUIPMENT FROM THAT USED AS BASIS OF DESIGN SHALL BE THE RESPONSIBILITY OF THE PURCHASER	dB	DECIBEL				INT	INTER (-IOR, -EF	RVAL)		
OF THAT EQUIPMENT. ANY PROVISIONS REQUIRED TO ACCOMMODATE A DEVIATION, WHETHER APPROVED BY THE ENGINEERS OR NOT, SHALL BE THE	DB	DRY BULB				IPS	IRON PIPE SIZE			
RESPONSIBILITY OF THE PURCHASER.	DC	DIRECT CURRENT				kW	KILOWATT			
BE LOCATED ABOVE A HARD CEILING. IF THIS IS NOT POSSIBLE, THEN AN APPROPRIATELY SIZED ACCESS DOOR SHALL BE PLACED UNDER THE ITEM TO			TOP			k///b				
ALLOW EASY MAINTENANCE AND ADJUSTMENT. ADDITIONALLY ALL SUCH ITEMS SHALL NOT BE LOCATED AN UNREASONABLE DISTANCE ABOVE THE CEILINGS. IN			TOK			KVVII				
GENERAL ALL SUCH ITEMS UNLESS INDICATED OTHERWISE SHALL BE MOUNTED SIX TO TWELVE INCHES ABOVE THE CEILING. IF IN DOUBT, CONTACT ENGINEER	DDC	DIRECT DIGITAL CON	NTROLS							
PRIOR TO INSTALLING.	DEG	DEGREE (-S)				LBS	POUNDS			
THE TOP ELEVATION SET FLUSH WITH FINISHED GRADE UNLESS SPECIFICALLY NOTED OTHERWISE.	DIA	DIAMETER (-S)				LF	LINEAR FEET/FO	ЮТ		
W WHEN RUNNING ANY TYPE OF PIPING BELOW A FOOTER, OR IN THE ZONE OF INFLUENCE THE PIPING SHALL BE BACKFILLED WITH CEMENTITIOUS FLOWABLE	DN	DOWN				LRA	LOCKED ROTOR	AMPS		
FILL PER SPECIFICATIONS. WHENEVER POSSIBLE, LOCATE PIPING OUTSIDE OF THE ZONE OF INFLUENCE. THE ZONE OF INFLUENCE IS THE AREA UNDER THE	DWG	DRAWING				LWT	LEAVING WATER		URE	
FOOTER WITHIN A 45 DEGREE ANGLE PROJECTING DOWN FROM THE BOTTOM EDGE OF THE FOOTER OF ALL SIDES OF THE FOOTER. ADDITIONALLY, GREASE						MAX	MAXIMUM			
TRAPS, MANHOLES, VAULTS AND OTHER UNDERGROUND STRUCTURES SHALL BE HELD AWAY FROM BUILDING WALLS FAR ENOUGH TO BE OUTSIDE OF THE ZONE						МВН				
OF INFLUENCE. X THE DOCUMENTS COMPLY WITH THE CODES INDICATED.	EC					PIDN				
Y WORK IN CONFINED AREAS SHALL BE IN ACCORDANCE WITH THE OWNER'S SAFETY POLICY REQUIREMENTS.	ELEV	ELEVA (-TION, -TOR)				MCA	MINIMUM CIRCU	IT AMPS		
	ENGR	ENGINEER				MFG	MANUFACTURER			
PLUMBING DEMOLITION NOTES	EQ	EQUAL				MIN	MIN (-IMUM, -UT	ΓE)		
SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.	ESP	EXTERNAL STATIC PR	RESSURE			MISC	MISCELLANEOUS	;		
DEMOLITION) WITH THE OWNER.	ETR	EXISTING TO REMAIN	N		N	10CP		CURRENT PI		[AMPS]
C ALL OUTAGES SHALL BE SCHEDULED THROUGH THE PROJECT REPRESENTATIVE FOR PROPER COORDINATION. A REQUEST FOR AN OUTAGE SHALL BE SUBMITTED IN WRITING A MINIMUM OF THE WEEKS IN ADVINCE										
SHALL DE SUDMITTED IN WRITING A MINIMUM OF TWO WEEKS IN ADVANCE.	EVAP	EVAPORAT (-E, -ING,	-ed, -uk, -10N)			UTU G				
PLUMBING PHASING NOTES	EWT	ENTERING WATER TE	EMPERATURE			N/A	NOT APPLICABLE			
A THIS PROJECT INTERFACES EXTENSIVELY WITH EXISTING BUILDING SERVICES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO	EXP	EXPANSION				NC	NOISE CRITERIA	. OR NORMA	ALLY CLOSE	0
COORDINATE AND PHASE ALL TIE-INS AND INTERRUPTIONS OF EXISTING SERVICES TO MINIMIZE OR ELIMINATE DOWNTIME. AS AN EXAMPLE, MAIN	EXT	EXTERIOR			1	NEBB	NATIONAL ENVIE	RONMENTAL	BALANCING	G BURE
GAS SERVICE, WATER SERVICE, ELECTRICAL SERVICE, ETC., WILL BE AFFECTED AND REPLACED OR MOVED DURING THIS PROJECT. THE	FA	FREE AREA				NIC	NOT IN CONTRA	.CT		
CONTRACTOR SHALL INSTALL ALL NEW SERVICES AND EQUIPMENT AND HAVE THEM TESTED AND FULLY AND RELIABLY FUNCTIONAL PRIOR TO										
INTERRUPTING, RELOCATING OR REMOVING ANY EXISTING SERVICES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO BEAR ANY AND ALL COSTS										
ASSOCIATED WITH THIS PHASING, INCLUDING TEMPORARY SERVICES, TEMPORARY RELOCATION, PREMIUM TIME WORK, ETC. CONTRACTOR SHALL										
PER THE CONTRACT DOCUMENTS.				APPLI	CABLE BUILD	DING C	ODES			
			APPLICABLE BUILD	DING CODES			DOCUM		YEAR	
PLUMBING HAZARDOUS MATERIALS NOTES A THE CONTRACTOR IT IS HEREBY ADVISED THAT IS POSSIBLE THAT				LABLE BUILDINGS AN DE				13	2009	
ASBESTOS AND/OR OTHER HAZARDOUS MATERIALS ARE OR WERE PRESENT IN THIS BUILDING(S). ANY WORKER, OCCUPANT, VISITOR, ETC., WHO			INTERNATIONAL BUI	LDING CODE (IBC)			STATE ED	DITION	2015	
ENCOUNTERS ANY MATERIAL OF WHOSE CONTENT THEY ARE NOT CERTAIN SHALL PROMPTLY REPORT THE EXISTENCE AND LOCATION OF THAT			INTERNATIONAL ENE		N CODE (IECC) <u>OR</u>	ASHRAE	90.1 STATE ED	DITION	2012	
MATERIAL TO THE OWNER ELIRTHERMORE THE CONTRACTOR SHALL							STATE ED		2015	
ENSURE THAT NO ONE COMES NEAR TO OR IN CONTACT WITH ANY SUCH			INTERNATIONAL MEC	CHANICAL CODE (IM	C)		STATE EL STATE ED	DITION	2012	
ENSURE THAT NO ONE COMES NEAR TO OR IN CONTACT WITH ANY SUCH MATERIAL OR FUMES THEREFROM UNTIL ITS CONTENT CAN BE ASCERTAINED TO BE NON-HAZARDOUS.			KENTUCKY PLUMBING	G CODE			STATE ED	DITION	2020	
 ENSURE THAT NO ONE COMES NEAR TO OR IN CONTACT WITH ANY SUCH MATERIAL OR FUMES THEREFROM UNTIL ITS CONTENT CAN BE ASCERTAINED TO BE NON-HAZARDOUS. B CMTA, INC. HAS NO EXPERTISE IN THE DETERMINATION OF THE PRESENCE OF ANY HAZARDOUS MATERIAL. THEREFORE, NO ATTEMPT HAS BEEN MADE 			NATIONAL ELECTRIC		DE		NFPA	70	2017	
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E THE CONTRACTOR IS DIRECTED TO THE SPECIFICATIONS FOR FURTHER

INFORMATION.

		GENERAL		D			FND			
NO	NORMALLY OPEN OR NUMBER		TAGGED NOTE DESIGNATOR	<u> </u>	0		RNING L	JP		
NTS	NOT TO SCALE	$\frac{\underline{}}{\underline{}}$	REVISION TRIANGLE			PIPE ELBOW TU	RNING D	OWN		
OC	ON CENTER		ROOM TAG			PIPE TEE; CONN	ECTION	ON TOP		
OD	OUTSIDE DI (-AMETER, -MENSION)	TAG XXX-#	EQUIPMENT TAG			PIPE TEE; CONN	ECTION	ON BOT	ТОМ	
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED	XXX ##	DOMESTIC WATER RISER TAG		3	PIPE CAP				
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED	(XXX) ##	SANITARY, WASTE, & VENT RIS	ER TAG –	AVT	- ACID VENT				
OFOI	OWNER FURNISHED, OWNER INSTALLED	XXX ##	FIRE SUPPRESSION RISER TAG		AW	- ACID WASTE				
OR	OPEN RECEPTACLE	•	POINT OF CONNECTION / CONN	NECT TO EXISTING -	CA	- COMPRESSED A	.IR			
OZ	OUNCE (-S)	~	POINT OF DEMOLITION		—CAI/E—	- COMBUSTION A	IR INTAK	E/EXHAU	JST	
PC	PLUMBING CONTRACTOR	D(XXX)	PIPING TO BE DEMOLISHED -	(XXX) DENOTES SYSTEM –		- CHILLED BEAM S	SUPPLY/	RETURN	l	
PD	PRESSURE DROP	—E(XXX)—	EXISTING PIPING - (XXX) DEN	OTES SYSTEM -	CD	- CONDENSATE D	RAIN			
РН	PHASE [ELECTRICAL]	—A(XXX)—	ABANDONED IN PLACE PIPING	G - (XXX) DENOTES SYSTEM -	CO2	- CARBON DIOXID	E			
PLBG	PLUMBING				CST	- CLEAN STEAM P	PIPING			
PPM	PARTS PER MILLION	VALVE SYN	BOL LEGEND							
PRS	PRESSURE REDUCING STATION	X	TWO-WAY CONTROL VALVE		- – DCW – –	-		((0011)		
PRV	PRESSURE REDUCING VALVE (STEAM, WATER, GAS)	¥	THREE-WAY CONTROL VALVE			- DOMESTIC HOT	WATER	(DHW)		
PSF	POUNDS PER SQUARE FOOT	Q	AUTOMATIC AIR VENT (AAV)		-DHW(#°F)-	-		(2)		
PSI	POUNDS PER SQUARE INCH	Ŷ	MANUAL AIR VENT (MAV)		— – – – – — — -DHR- —	- RECIRCULATED	DOMES	тіс нот	WATER (D	HR)
PSIG	PPSI GAUGE		MANUAL BALANCING VALVE (BV)	-DHR(#°F)-	-				
RLA	RUNNING LOAD AMPS	Ō	BALL VALVE		—HPC—	- HIGH PRESSURE	E STEAN	1 CONDE	NSATE	
RPM	REVOLUTIONS PER MINUTE		BUTTERFLY VALVE		—HPS(#)—	- HIGH PRESSURE	E STEAN	1; (#) DEN	NOTES PRE	SSURE
SQ	SQUARE		TRIPLE DUTY VALVE (TDV)		—HPS/R—	- HEAT PUMP WA	TER SUP	PPLY/RE	TURN	
SQ FT	SQUARE FEET OR FOOT	— ,	STRAINER		HRS/R	- HEAT RECOVER	Y SUPPI	LY/RETU	RN PIPING	
SQ IN	SQUARE INCH OR INCHES		MANUAL ISOLATION VALVE		—HWS/R—	- HEATING WATER	R SUPPL	Y/RETU	RN	
ТАВ	TESTING AND BALANCING		GLOBE VALVE		LPC	- LOW PRESSURE	STEAM	CONDE	NSATE	
TBD	TO BE DETERMINED		OS&Y (GATE) VALVE		—LPS(#)—	- LOW PRESSURE	STEAM	; (#) DEN	IOTES PRE	SSURE
TE	TOP ELEVATION		PRESSURE REDUCING VALVE (S	TEAM, GAS, WATER, ETC.) —	MPC	- MEDIUM PRESS	URE STE	EAM RET	URN	
TEMP	TEMPERATURE		AUTO-FLOW CONTROL VALVE		—MPS(#)—	- MEDIUM PRESS	URE STE	EAM; (#)	DENOTES F	'RESSURE
ТРА	TRAP PRIMER ADAPTER		CHECK VALVE		SPD	- STEAM CONDEN	ISATE P	UMPED I	DISCHARGI	<u> </u>
TSP	TOTAL STATIC PRESSURE		DOUBLE CHECK VALVE ASSEMB	LY	SVT		PING			
TYP				<u>P</u>	LUMBIN	G SYMBOL LEO	GEND			
UNO				-		FLEXIBLE PIPE CO		ON		
V	VOLT (-AGE, -S)					FLOW METER (VE	NTURI)			
					Ť [™]		N I			
					T		.H			
	WATT (-AGE -S)				<u></u>					
	WET BUUR				<u></u> т					
WBT									JUKE FORT	
WPD										
WT	WEIGHT									
W/	WITH									
W/O	WITHOUT									
%	PERCENT									
ΔΡ	DIFFERENTIAL PRESSURE	[
ΔΤ	TEMPERATURE DIFFERENCE			ACCEPTABLE MANUFACTURERS FOR	PLUMBING	FIXTURES, TRIM, &	EQUIPM	IENT		
¢	CENTERLINE	WATER CLOSE	TS, LAVATORIES, URINALS	MOP SINKS AND SERVICE SINKS	D	WASH FC		<u>IS</u> UGHBY	INTERSAN	TR/
		EAUC		KOHLER, FLORESTONE, STERN-WILLIAI	vis		,			
		AMERICAN STAN	DARD, KOHLER, DELTA,	<u>FIXTURE CARRIERS</u> ZURN, TYLER, JOSAM, WATTS, JAY R. S	SMITH	ERGENCY FIXTURI GUARDIAN, B	<u>ES - EYE</u> RADLEY	<u>WASH, S</u> , SPEAK	SHOWERS MAN	<u>WA</u> LOCHINVAR,
		FLU	SH VALVES	STAINLESS STEEL SINKS						BRADFORD
		SLOAN	ZURN, MOEN	ELKAY, JUST, MOEN, STERLING		TRUEBRO, BROG	CAR, PLU	JMBERE	X	LEONARD, SYMMONS
		FIXT BEMIS (SHOWER BRADLEY, ZURN, SYMMONS, CHICAGO,	. 7	FLOOR	DRAINS	SMITH	WATTS	
				SPEAKMAN, POWERS, ACORN, MOEN					WATTS	
		ELECTRI ELKAY, HAL	<u>C WATER COOLERS</u> SEY ACORN, HAWS	<u>WASHER BOX</u> GUY GRAY, WOLVERINE		ZURN, WOC	<u>S AND H</u> DFORD,	<u>IOSE BIB</u> , WATTS	<u>BS</u>	LEONAR POWERS
		L		I	I				I	
		PLUMB	ING FIXTURE SC	CHEDULE		0.04				
FD-1 FLC	OOR DRAIN - 6" DIA. : ZURN, ZN-415 OR EQUAL FLOOR DRAIN WITH 6'	DEA DIAMETER TOP, TY	PE "B" NICKEL BRONZE STRAINI T FOR NARROW WALL INSTALL	ER, 4" DRAIN OUTLET AND TRAP PRIMER CON			-	2"	4"	
HB REF	PLACEABLE SEAT WASHER, LOOSE KEY OPERATED CONTROL VALV IGED COVER CYLINDER LOCK AND "WATER" STAMPED ON THE COV	ER. MOUNTED WITH	R AND 3/4" MALE HOSE CONNE HOSE CONNECTION AT 18" ABC	CTION. ADJUSTABLE STAINLESS STEEL BOX DVE FINISHED FLOOR ELEVATION OF AREA S	FURNISHE	D WITH 1/2"	-	-	-	
P-1 OPI	TER CLOSET - FLOOR MOUNTED - BATTERY SENSOR FLUSH VALVE EN FRONT PLASTIC SEAT WITH SELF-SUSTAINING CHECK HINGES. F	: VITREOUS CHINA, PROVIDE WITH A BAT	15" HIGH ELONGATED BOWL, SI TTERY POWERED, SIDE MOUNT	PHON JET, 11/2" TOP SPUD INLET, CHINA BOI SENSOR OPERATED 1.6 GPF FLUSH VALVE V	_T CAPS AN	D WHITE RIDE 1-1/2"	-	2"	4"	
P-1A CAL	TION AND CHROME PLATED HOUSING. TER CLOSET - FLOOR MOUNTED - BATTERY SENSOR FLUSH VALVE PS AND WHITE OPEN FRONT PLASTIC SEAT WITH SELE-SUSTAINING	- ADA COMPLIANT :	VITREOUS CHINA, 18" HIGH ELO OVIDE WITH A BATTERY POWE	NGATED BOWL, SIPHON JET, 11/2" TOP SPUE	D INLET, CH	INA BOLT ALVE WITH 1-1/2"		2"	4"	
	ERRIDE BUTTON AND CHROME PLATED HOUSING. OVERRIDE BUTTO INAL - BATTERY POWERED SENSOR FLUSH VALVE : VITREOUS CHIN	ON SHALL A MAXIMU	M OF 31" AFF. AL WITH 3/4" TOP SPUD INLET A	ND 2" I.P.S. OUTLET. PROVIDE WITH BATTER		D, SIDE	-	2	2"	
P-2 MO AFF	UNT SENSOR OPERATED 1.0 GPF FLUSH VALVE WITH OVERRIDE BL		PLATED HOUSING. PROVIDE W			AT 24" 3/4"	-	2"		
P-2A PO	INAL - BATTERY POWERED SENSOR FLUSH VALVE - ADA COMPLIAN WERED, SIDE MOUNT SENSOR OPERATED 1.0 GPF FLUSH VALVE W I'H LIP AT 16" AFF.	I : VITREOUS CHINA	SIPHON JET URINAL WITH 3/4" ON AND CHROME PLATED HOUS	I OF SPUD INLET AND 2" I.P.S. OUTLET. PROV SING. PROVIDE WITH FLOOR MOUNTED WAL	L CARRIER.	ATTERY MOUNT 3/4"	-	2"	2"	
LAV	ATORY - WALL HUNG W/SENSOR FAUCET - ADA COMPLIANT : VITRE ROME PLATED GRID DRAIN, 3/8" ANGLE SUPPLIES WITH STOPS, KEN	OUS CHINA, 19"X16"	OVAL COUNTERTOP LAVATOR	Y, SELF-RIMMING WITH FRONT OVERFLOW. F NNS. INSTALL ON THE SUPPLY LINES AND P-T	PROVIDE WI				2"	
P-3 KIT BEL	WITH A VINYL PLASTIC COVERING. PROVIDE WITH SLOAN'S MODEL OW DECK MECHANICAL MIXING VALVE AND A .5 GPM AERATOR. TH QUIRED.	E IF-600 SENSOR O E TRANSFORMER S	PERATED ELECTRONIC FAUCET HALL BE MOUNTED IN THE CEIL	I WITH SLOAN'S EL248-40 HARDWIRE TRANS ING SPACE ABOVE THE LAVATORY; PROVIDE	FORMER, M E WIRING AS	IX-60-A 1/2"	1/2"	2"		
P-4 DRI	INKING FOUNTAIN - ADA COMPLIANT - ELKAY, AMBIENT, VANDAL REI INKING FOUNTAIN, 18 GAUGE STAINLESS STEEL BASIN, WITH FRON	SISTANT OR EQUIVA T PUSH BUTTON OPE	LENT. RECEPTOR WITH SANITA ERATOR, WALL MOUNTED WITH	RY SENSOR ACTIVATION BOTTLE FILLER, BA CARRIER. REFER TO ARCHIECHTURAL PLAN	RRIER FRE	E JNTING 1/2"	-	2"	2"	
HEI	IGHTS. REE COMPARTMENT SCULLERY SINK W/ DRAINBOARDS : JUST MOD	DEL NSFB-345-24RL (OR EQUAL STAINLESS STEEL TH	RIPLE COMPARTMENT SCULLERY SINK, 96"X2	27" O.D., 15"	X24"X12"			2"	
P-5 I.D. STE	, 14 GAUGE 117E 304, 18-8 STAINLESS STEEL, NSF CERTIFIED, SEAM EEL TUBULAR LEGS. PROVIDE WITH TWO BACK SPLASH MOUNTED F OVIDE CHROME PLATED ANGLE SUPPLIES WITH STOPS. KENTUCKY	VILESS VVELDED CON FAUCETS WITH CHR(CODE P-TRAP, CON	DME PLATED 8" SWING SPOUT, TINUOUS WASTE PIPE, TAILPIE	חופה סמטה-סצבאסא, אופאד AND LEFT DRAIN 4" WRIST BLADE HANDLES AND REMOTE COI CE AND ESCUTCHEONS.	IDUARUS, S NTROL DRA	INS. 3/4"	3/4"	1-1/2"		

P-6 MOP BASIN : 24"X24"X10" HIGH MOLDED STONE MOP SERVICE BASIN, IN WHITE DRIFT COLOR, 3" DRAIN, SERVICE FAUCET, HOSE AND HOSE BRACKET, VINYL BUMPERGUARD AND STAINLESS STEEL WALL GUARDS. THE DRAIN SHALL BE LOCATED 12" TO THE CENTER. PROVIDE A CHECK VALVE IN THE HOT AND COLD WATER SUPPLIES. 1/4 DRAIN PORT IN VALVE HOUSING.

P-7 LAVATORY - WALL HUNG W/ SINGLE LEVER FAUCET - ADA COMPLIANT : VITREOUS CHINA, 20"X18" WALL HUNG LAVATORY WITH 4" FAUCET CENTERS, CONCEALED ARMS AND 4" HIGH BACKSPLASH. PROVIDE WITH A 0.5 GPM SINGLE LEVER FAUCET, CHROME PLATED 3/8" SUPPLIES WITH STOPS, GRID DRAIN, A KENTUCKY CODE P-TRAP, TAILPIECE AND ESCUTCHEONS. MOUNT LAVATORY AT A HEIGHT LEAVING A CLEARANCE OF AT LEAST 29" FROM THE FLOOR TO THE APRON AND THE RIM AT A MAXIMUM OF 34" AFF. PROVIDE ON THE EXPOSED WASTE PIPE AND WATER SUPPLY LINES A TRAP-WRAP INSULATION KIT WITH A VINYL AND PLASTIC COVERING. P-8 WATER SUPPLY WALL BOX : 10"X 8-1/2" RECESSED WATER VALVE BOX, 18 GAUGE STEEL BOX WITH A SINGLE 1/2" WATER SUPPLY INLET, ANGLE STOP AND 1/4" COMPRESSION OUTLET. YH-1 FREEZE-PROOF YARD HYDRANT : ZURN Z1360 OR EQUIVALENT, 3/4", ENCASED, NON-FREEZE GROUND HYDRANT FOR FLUSH WITH GRADE INSTALLATION. COMPLETE WITH GALVANIZED STEEL CASING, ALL BRONZE INTERIOR PARTS, BRONZE SEAT AND REPLACEABLE SEAT WASHER, NON-TURNING OPERATING ROD WITH FREE-FLOATING COMPRESSION CLOSURE VALVE WITH 3/4" CONNECTION. PLAIN BRONZE BOX AND HINGED SCORIATED COVER WITH OPERATION KEY LOCK AND "WATER" CAST ON COVER. HYDRANT SHALL BE PROVIDED WITH A TAPPED

3" 3/4" 3/4" 2" 1/2" 1/2" 2" 1/2" - ---3/4"

DATE ISSUED: APRIL 13, 2022

9 BASEBALL SANITARY RISER

10 SOFTBALL SANITARY RISER

TAGGED NOTES

P1	REFER TO SITE UTILITIES PLAN FOR
P2	3/4" DCW DOWN IN CHASE TO PLUM
P3	3/4" DHW DOWN IN CHASE TO PLUM
P4	PROVIDE ISOLATION VALVE IN VERT
	ENTRANCE. PROVIDE SHRAIDER VA
	COMPRESSED AIR HOSE TO BLOW I

	COMPRESSED AIR HOSE TO BLOW DOWN PIPING S WINTERIZE BUILDING.
P5	ROUTE PIPING ABOVE CEILING, TYPICAL.
P6	2" DCW DOWN IN CHASE TO PLUMBING FIXTURES.

P7 1-1/2" DCW DOWN IN CHASE TO PLUMBING FIXTURES.P8 2" DCW DOWN TO FEED PLUMBING FIXTURES EXPOSED.

MECHANICAL GENERAL NOTES

- A COORDINATE THE LOCATION OF DRAINS, THERMOSTATS, GAS OUTLETS, ETC., WITH ALL CASEWORK EQUIPMENT, MECHANICAL ROOM EQUIPMENT, ETC., PRIOR TO COMMENCING INSTALLATION. WORK NOT SO COORDINATED SHALL BE REMOVED AND PROPERLY INSTALLED AT THE EXPENSE OF THE CONTRACTOR. B THE CONTRACTOR SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK SO AS TO ENSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE. FOR SAFETY PURPOSES, PAY PARTICULAR ATTENTION TO THIS PRECAUTION
- RELATIVE TO NATURAL GAS AND ELECTRICAL LINES. VERIFY THE LOCATION, SIZE, TYPE, ETC., OF EACH UNDERGROUND OR OVERHEAD UTILITY. ALL WORK SHALL BE PERFORMED IN ACCORD WITH ALL FEDERAL, STATE AND/OR LOCAL RULES, REGULATIONS, STANDARD AND SAFETY REQUIREMENTS. UTILITIES SHALL BE INSTALLED IN ACCORD WITH THE APPLICABLE MUNICIPALITY OR UTILITY COMPANY STANDARDS. IN ALL CASES, THE MOST STRINGENT REQUIREMENT SHALL APPLY.
- C ALL NEW WORK SHALL BE HUNG FROM STRUCTURE, NOT FROM THE WORK OF OTHER TRADES, WHETHER EXISTING OR NEW. D COORDINATE ALL WORK WITH PROJECT PHASING REQUIREMENTS. E PATCH, REPAIR AND PAINT OR PROVIDE WALL COVERING FOR (TO OWNER'S
- STANDARDS) EXISTING WALLS, CEILINGS, ETC., THAT ARE TO REMAIN IF DAMAGED DURING CONSTRUCTION. REPAIRS SHALL MATCH ADJACENT SURFACES TO THE SATISFACTION OF THE ARCHITECT AND OWNER. F OBSERVE ALL APPLICABLE CODES, RULES AND REGULATIONS THAT MAY APPLY TO THE WORK UNDER THIS CONTRACT. (CITY, COUNTY, LOCAL, FEDERAL,
- MUNICIPALITY, UTILITY COMPANY, COMMONWEALTH OF KENTUCKY, ETC.) G CONTRACTOR SHALL BE AWARE OF UNSEEN PLUMBING, HVAC AND ELECTRICAL WORK DURING DEMOLITION. IF ITEMS ARE UNCOVERED DURING DEMOLITION THEN FIELD VERIFY THE USE OF THE ITEMS AND PLAN AN ALTERNATE ROUTE TO RUN THESE ITEMS. THEN CONTACT THE ENGINEERS TO REVIEW THE ROUTING. H ALL PENETRATIONS OF FIRE AND SMOKE RATED ASSEMBLIES SHALL BE
- APPROPRIATELY FIRE STOPPED PER AN APPROVED U.L. LISTED STANDARD. CONTRACTOR SHALL PAY PARTICULAR ATTENTION TO INSULATED PIPING PENETRATIONS.
- I ALL WORK REQUIRING DOWNTIME OF ANY AREA IN THE BUILDING SHALL BE SCHEDULED 2 WEEKS IN ADVANCE.
- J ALL DUCTWORK, PIPING, CONDUITS, ETC. IN ROOMS WITH CEILINGS SHALL BE ABOVE CEILING EXCEPT AS NOTED.
- K LOCATIONS OF PIPING, DUCTS AND EQUIPMENT ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD. DO NOT SCALE THE DRAWINGS. ALL OFFSETS IN DUCTS AND PIPING ARE NOT NECESSARILY SHOWN. PROVIDE
- ADDITIONAL OFFSETS WHERE NECESSARY. M COORDINATE ALL HVAC WORK WITH ELECTRICAL, PLUMBING AND OTHER TRADES TO AVOID INTERFERENCE WITH PIPING, DUCTS, CONDUIT AND OTHER EQUIPMENT.
- N INSTALL ALL PIPING, DUCTWORK AND EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTION. IF IN CONFLICT WITH THE DESIGN INDICATED IN CONTRACT DOCUMENTS, ADVISE THE ENGINEERS PRIOR TO INSTALLATION FOR CLARIFICATION. PROVIDE RECOMMENDED ACCESS AND SERVICE CLEARANCES FOR ALL EQUIPMENT.
- O SEAL AIRTIGHT AROUND ALL DUCTS AND PIPING PENETRATIONS THROUGH WALLS, FLOORS AND ROOF. PROVIDE FIRE STOPPING IN FIRE PARTITION. P SEAL ALL NEW DUCTWORK JOINTS WITH UNITED MCGILL, IRONGRIP 601 OR
- EQUAL WATER BASED SEALANT. Q ALL MOTOR DRIVEN EQUIPMENT SHALL BE INSTALLED WITH FLEXIBLE CONNECTIONS TO DUCTWORK, PIPING, ETC., UNLESS OTHERWISE NOTED.
- R THE CONTRACTOR SHALL RELOCATE OR AVOID ANY EXISTING EQUIPMENT APPURTENANCES, ETC., THAT CONFLICT WITH NEW WORK. WHERE MOUNTING HEIGHTS ARE NOT INDICATED OR ARE IN CONFLICT WITH ANY OTHER BUILDING SYSTEM, CONTACT THE ENGINEERS BEFORE INSTALLATION.
- REFER ALSO TO ARCHITECTURAL WALL INTERIOR AND EXTERIOR WALL ELEVATIONS, CEILING HEIGHTS AND OTHER DETAIL OF THESE DOCUMENTS. T DOUBLE WIDTH TURNING VANES SHALL BE INSTALLED IN ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK ELBOWS.
- U ANY VIBRATING, OSCILLATING OR OTHER NOISE OR MOTION PRODUCING EQUIPMENT SHALL BE ISOLATED FROM SURROUNDING SYSTEMS IN AN APPROVED MANNER. NOISY OR STRUCTURALLY DAMAGING INSTALLATIONS SHALL BE SATISFACTORILY REPLACED OR REPAIRED AT THE INSTALLING CONTRACTOR'S EXPENSE. THE FINAL DECISION ON THE SUITABILITY OF A PARTICULAR INSTALLATION'S ACCEPTABILITY SHALL BE THAT OF THE ENGINEER.
- V DEVIATIONS IN SIZE, CAPACITIES, FIT, FINISH, ETC. FOR EQUIPMENT FROM THAT USED AS BASIS OF DESIGN SHALL BE THE RESPONSIBILITY OF THE PURCHASER OF THAT EQUIPMENT. ANY PROVISIONS REQUIRED TO ACCOMMODATE A DEVIATION, WHETHER APPROVED BY THE ENGINEERS OR NOT, SHALL BE THE RESPONSIBILITY OF THE PURCHASER.
- W VALVES, BALANCING DAMPERS OR ANY MECHANICAL/ELECTRICAL ITEM REQUIRING ACCESS SHALL NOT BE LOCATED ABOVE A HARD CEILING. IF THIS IS NOT POSSIBLE, THEN AN APPROPRIATELY SIZED ACCESS DOOR SHALL BE PLACED UNDER THE ITEM TO ALLOW EASY MAINTENANCE AND ADJUSTMENT. ADDITIONALLY ALL SUCH ITEMS SHALL NOT BE LOCATED AN UNREASONABLE DISTANCE ABOVE THE CEILINGS. IN GENERAL ALL SUCH ITEMS UNLESS INDICATED OTHERWISE SHALL BE MOUNTED SIX TO TWELVE INCHES ABOVE THE CEILING. IF IN DOUBT, CONTACT ENGINEER PRIOR TO INSTALLING. X THE DOCUMENTS COMPLY WITH THE CODES INDICATED.
- Y WORK IN CONFINED AREAS SHALL BE IN ACCORDANCE WITH THE OWNER'S SAFETY POLICY REQUIREMENTS.

MECHANICAL DEMOLITION NOTES

- A HEAVY DASHED LINES INDICATE ITEMS FOR REMOVAL (UON) AND LIGHT SOLID LINES INDICATE EXISTING ITEMS TO REMAIN. B COORDINATE DISPOSAL OF ALL FIXTURES, DEVICES, ETC. (INDICATED FOR
- DEMOLITION) WITH THE OWNER. ALL OUTAGES SHALL BE SCHEDULED THROUGH THE PROJECT REPRESENTATIVE FOR PROPER COORDINATION. A REQUEST FOR AN OUTAGE SHALL BE SUBMITTED IN
- WRITING A MINIMUM OF TWO WEEKS IN ADVANCE.

MECHANICAL HAZARDOUS MATERIALS **NOTES**

- A THE CONTRACTOR IT IS HEREBY ADVISED THAT IS POSSIBLE THAT ASBESTOS AND/OR OTHER HAZARDOUS MATERIALS ARE OR WERE PRESENT IN THIS BUILDING(S). ANY WORKER, OCCUPANT, VISITOR, ETC., WHO ENCOUNTERS ANY MATERIAL OF WHOSE CONTENT THEY ARE NOT CERTAIN SHALL PROMPTLY REPORT THE EXISTENCE AND LOCATION OF THAT MATERIAL TO THE OWNER. FURTHERMORE, THE CONTRACTOR SHALL INSURE THAT NO ONE COMES NEAR TO OR IN CONTACT WITH ANY SUCH MATERIAL OR FUMES THEREFROM UNTIL ITS CONTENT CAN BE ASCERTAINED TO BE NON-HAZARDOUS.
- B CMTA, INC. HAS NO EXPERTISE IN THE DETERMINATION OF THE PRESENCE OF ANY HAZARDOUS MATERIAL. THEREFORE, NO ATTEMPT HAS BEEN MADE BY CMTA TO IDENTIFY THE EXISTENCE OR LOCATION OF ANY SUCH HAZARDOUS MATERIAL. FURTHERMORE, CMTA NOR ANY AFFILIATE HEREOF WILL NOT OFFER OR MAKE ANY RECOMMENDATIONS RELATIVE TO THE REMOVAL, HANDLING OR DISPOSAL OF SUCH MATERIAL.
- IF THE WORK WHICH IS TO BE PERFORMED INTERFACES, CONNECTS OR RELATES IN ANY PHYSICAL WAY WITH OR TO EXISTING COMPONENTS WHICH CONTAIN OR BEAR ANY HAZARDOUS MATERIAL, ASBESTOS BEING ONE, THEN IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO CONTACT THE
- OWNER AND SO ADVISE HIM IMMEDIATELY. D THE CONTRACTOR BY EXECUTION OF THE CONTRACT FOR ANY WORK AND/OR BY THE ACCOMPLISHMENT OF ANY WORK THEREBY AGREE TO BRING NO CLAIM RELATIVE TO HAZARDOUS MATERIALS FOR NEGLIGENCE, BREACH OF CONTRACT, INDEMNITY, OR ANY OTHER SUCH ITEM AGAINST CMTA, ITS PRINCIPALS, EMPLOYEES, AGENTS OR CONSULTANTS, ALSO, THE CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD CMTA, ITS PRINCIPALS, EMPLOYEES, AGENTS AND CONSULTANTS HARMLESS FROM ANY SUCH RELATED CLAIMS WHICH MAY BE BROUGHT BY ANY SUBCONTRACTORS, SUPPLIERS OR ANY OTHER THIRD PARTIES.
- E THE CONTRACTOR IS DIRECTED TO THE SPECIFICATIONS FOR FURTHER INFORMATION.

MECHANICAL PHASING NOTES

A THIS PROJECT INTERFACES EXTENSIVELY WITH EXISTING BUILDING SERVICES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE AND PHASE ALL TIE-INS AND INTERRUPTIONS OF EXISTING SERVICES TO MINIMIZE OR ELIMINATE DOWNTIME. AS AN EXAMPLE, MAIN GAS SERVICE, WATER SERVICE, ELECTRICAL SERVICE, HVAC SERVICES, ETC., WILL BE AFFECTED AND REPLACED OR MOVED DURING THIS PROJECT. THE CONTRACTOR SHALL INSTALL ALL NEW SERVICES AND EQUIPMENT AND HAVE THEM TESTED AND FULLY AND RELIABLY FUNCTIONAL PRIOR TO INTERRUPTING, RELOCATING OR REMOVING ANY EXISTING SERVICES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO BEAR ANY AND ALL COSTS ASSOCIATED WITH THIS PHASING, INCLUDING TEMPORARY SERVICES, TEMPORARY RELOCATION, PREMIUM TIME WORK, ETC. CONTRACTOR SHALL COORDINATE ALL SAID WORK WITH THE OWNER AND APPLICABLE UTILITIES PER THE CONTRACT DOCUMENTS.

ABBREVIA

AC -----ADJ -----AFF _____ AFR ._____ AFUE -----AHJ AMP _____ ANSI -----APD _____ ASHRAE _____ ATU -----AVG -----BAS _____ BHP BTU _____ CAP _____ CAV ۰..... CD -----CFM -----C.I. -----CLG ·-----CLR -----CO -----CO2 ۰..... COND -----CONT -----CU FT _____ CU IN -----CV ----dB _____ DB ۰..... DBT _____ DC -----DD ۰..... DDC . DEG -----DIA ۰..... DN DWG _____ EAT -----EC ۰..... ELEV . ENGR -----EQ _____ ESP -----ETR -----EVAP -----EWT ۰..... EXP _____ EXT -----FA

ATIONS	ABBREVI	ATIONS (CONTINUED)	ABBREVIA	TIONS (CONTINUED)	GENERAL	SYMBOLS
ALTERNATING CURRENT	FD	FIRE DAMPER	NO	NORMALLY OPEN OR NUMBER		TAGGED NOTE DESIGNATOR
ADJUSTABLE	FL	FLOOR	NTS	NOT TO SCALE	$-\underline{}$	REVISION TRIANGLE
ABOVE FINISHED FLOOR	FLA	FULL LOAD AMPS	OC	ON CENTER	ROOM NAME [RM #]	ROOM TAG
ABOVE FINISHED ROOF	FOB	FLAT ON BOTTOM	OD	OUTSIDE DI (-AMETER, -MENSION)	TAG XXX-# INSTANCE XXXX	EQUIPMENT TAG
ANNUAL FUEL UTILIZATION EFFICIENCY	FOT	FLAT ON TOP	CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED	•	POINT OF CONNECTION / CONNECT TO EXISTING
AUTHORITY HAVING JURISDICTION	FPC	FIRE PROTECTION CONTRACTOR	OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED		POINT OF DEMOLITION
AMPERE (AMP, AMPS)	FPM	FEET PER MINUTE	OFOI	OWNER FURNISHED, OWNER INSTALLED		
AMERICAN NATIONAL STANDARD INSTITUTE	FPS	FEET PER SECOND	OR	OPEN RECEPTACLE		
AIR PRESSURE DROP	FT	FEET OR FOOT	OZ	OUNCE (-S)		
AMERICAN SOCIETY OF HEATING, REFRIGERATION, AND	FUT	FUTURE	PC	PLUMBING CONTRACTOR		
AIR TERMINAL UNIT	FV	FACE VELOCITY	PD	PRESSURE DROP		
AVERAGE	GA	GAGE/GAUGE	PH	PHASE [ELECTRICAL]	HVAC LEG	END
BUILDING AUTOMATION SYSTEM	GAL	GALLON (-S)	PLBG	PLUMBING		SUPPLY AIR DIFFUSER
BREAK HORSEPOWER	GC	GENERAL CONTRACTOR	PPM	PARTS PER MILLION		RETURN AIR DIFFUSER
BRITISH THERMAL UNIT	GPD	GALLONS PER DAY	PRS	PRESSURE REDUCING STATION		EXHAUST AIR DIFFUSER
CAPACITY	GPH	GALLONS PER HOUR	PRV	PRESSURE REDUCING VALVE (STEAM, WATER, GAS)		TRANSFER AIR DIFFUSER W/ SOUND ATTENUATING BOOT
CONSTANT AIR VOLUME	GPM	GALLONS PER MINUTE	PSF	POUNDS PER SQUARE FOOT		SIDEWALL DIFFUSER/GRILLE
CONDENSATE DRAIN	GR	GRAINS	PSI	POUNDS PER SQUARE INCH		SIDEWALL DIFFUSER/GRILLE
CUBIC FEET PER MINUTE	Н	HUMIDITY	PSIG	PPSI GAUGE	TAG (XXX) AIRFLOW #.###	AIR DEVICE TAG (REGISTER, GRILLE, DIFFUSER,LOUVER)
CAST IRON	HD	HEAD	RH	RELATIVE HUMIDITY [%]	##x##	RECTANGULAR DUCT
CEILING	HG	MERCURY	RLA	RUNNING LOAD AMPS	#ø	ROUND/SPIRAL DUCT
CLEAR	HORIZ	HORIZONTAL	RPM	REVOLUTIONS PER MINUTE	+ ##/## +	FLAT OVAL DUCT
CARBON MONOXIDE	HP	H (-ORSEPOWER, -EAT PUMP)	SD	SMOKE DAMPER		SUPPLY AIR DUCT
CARBON DIOXIDE	HR	HOUR (-S)	SP	STATIC PRESSURE		RETURN AIR DUCT
CONDENS (-ER, -ING, -ATION, -ATE)	HVAC	HEATING, VENTILATING, & AIR-CONDITIONING	SQ	SQUARE		EXHAUST AIR DUCT
CONTINU (-ED, -OUS)	Hz	HERTZ	SQ FT	SQUARE FEET OR FOOT		OUTSIDE AIR DUCT
CUBIC FEET	ID	I (-DENTIFICATION, -NSIDE DIAMETER, -NSIDE DIMENSION)	SQ IN	SQUARE INCH OR INCHES		TRANSFER AIR DUCT
CUBIC INCHES	IN	INCH (-ES)	ТАВ	TESTING AND BALANCING		COMBUSTION AIR EXHAUST DUCT
VALVE FLOW COEFFICIENT	INSUL	INSULAT (-ED, -ION)	TBD	TO BE DETERMINED		COMBUSTION AIR INTAKE DUCT
DECIBEL	INT	INTER (-IOR, -ERVAL)	TE	TOP ELEVATION	SA T	SA AIR DUCT TURNING UP
DRY BULB	IPS	IRON PIPE SIZE	TEMP	TEMPERATURE	× SA	SA AIR DUCT TURNING DOWN
DRY BULB TEMPERATURE	kW	KILOWATT	TSP	TOTAL STATIC PRESSURE	RA	RA AIR DUCT TURNING UP
DIRECT CURRENT	kWh	KILOWATT HOUR	ТҮР	TYPICAL		RA AIR DUCT TURNING DOWN
DUCT SMOKE DETECTOR	LAT	LEAVING AIR TEMPERATURE	UNO	UNLESS NOTED OTHERWISE	EA	EA AIR DUCT TURNING UP
DIRECT DIGITAL CONTROLS	LBS	POUNDS	V	VOLT (-AGE, -S)	EA T	EA AIR DUCT TURNING DOWN
DEGREE (-S)	LF	LINEAR FEET/FOOT	VAR	VARI (-ABLE, -IES)	E(XXX)	EXISTING DUCT - (XXX) DENOTES SYSTEM
DIAMETER (-S)	LRA	LOCKED ROTOR AMPS	VAV	VARIABLE AIR VOLUME		DUCT TO BE DEMOLISHED - (XXX) DENOTES SYSTEM
DOWN	LWT	LEAVING WATER TEMPERATURE	VEL	VELOCITY	A(XXX)	DUCT TO BE ABANDONED IN PLACE - (XXX) DENOTES SYSTEM
DRAWING	MAX	MAXIMUM	VFD	VARIABLE FEQUENCY DRIVE	 سی	MITERED ELBOW WITH TURNING VANES
ENTERING AIR TEMPERATURE	MBH	BTU PER HOUR [THOUSANDS]	W	WATT (-AGE, -S)	\+++++\	FLEXIBLE DUCT
ELECTRICAL CONTRACTOR	MCA	MINIMUM CIRCUIT AMPS	WB	WET BULB		THERMOSTAT
ELEVA (-TION, -TOR)	MFG	MANUFACTURER	WBT	WET BULB TEMPERATURE		TEMPERATURE SENSOR
ENGINEER	MIN	MIN (-IMUM, -UTE)	WPD	WATER PRESSURE DROP	(H)	HUMIDITY SENSOR
EQUAL	MISC	MISCELLANEOUS	WT	WEIGHT	©	CARBON DIOXIDE SENSOR
EXTERNAL STATIC PRESSURE	MOCP	MAXIMUM OVERCURRENT PROTECTION [AMPS]		WITH		TEMPERATURE & CARBON DIOXIDE SENSOR
EXISTING TO REMAIN	MTG	MOUNTING	W/O	WITHOUT		MANUAL BALANCING/VOLUME DAMPER
EVAPORAT (-E, -ING, -ED, -OR, -ION)	N/A	NOT APPLICABLE	%	PERCENT		MOTORIZED DAMPER
ENTERING WATER TEMPERATURE	NC	NOISE CRITERIA OR NORMALLY CLOSED	ΔΡ	DIFFERENTIAL PRESSURE		FIRE DAMPER
EXPANSION	NEBB	NATIONAL ENVIRONMENTAL BALANCING BUREAU	ΔΤ	TEMPERATURE DIFFERENCE		SMOKE DAMPER
EXTERIOR	NIC	NOT IN CONTRACT	¢_	CENTERLINE		COMBINATION FIRE & SMOKE DAMPER
FREE AREA		<u> </u>		l	VEKI. HUKIZ.	1

NOTE: NOT ALL SYMBOLS AND ABBREVIATIONS MAY BE USED ON THIS PROJECT

	MECHANIC	PIPE ELBOW TURNING UP					C†S	0 859.254.4018	
		PIPE ELBOW TURNING DOV	WN			+		0502 p	
	Ŷ	PIPE TEE; CONNECTION OF	NTOP			Č		ucky 4	
	<u> </u>	PIPE TEE; CONNECTION OF	NBOTTOM			JTC	<u>S</u> S	, kent	
						sto	Ö	xingtor	
	BFW					С С))	iue le	
	CBS/R		TURN				-	e aver	
	CD	CONDENSATE DRAIN						afayett	
	—CHWS/R—	CHILLED WATER SUPPLY/F	RETURN					i old la	
	CST	CLEAN STEAM PIPING						10	
	—CWS/R—	CONDENSER WATER SUPP	PLY/RETURN						
	—DTS/R—	DUAL TEMP. WATER SUPPI	LY/RETURN			NOT	FOR		
	GS/R	GEOTHERMAL WATER SUF	PPLY/RETURN		CC	NSTR	UCTI	ON	
	HPC	HIGH PRESSURE STEAM C	ONDENSATE						
	—HPS(#)—	HIGH PRESSURE STEAM; (#	#) DENOTES PRESSURI	E					
	—HPS/R—					< +	1		
	HRS/R—					Σ			
	—HWS/R—	LOW PRESSURE STEAM CO				()		
	LPS(#)	LOW PRESSURE STEAM; (#) DENOTES PRESSURE						
	MPC	MEDIUM PRESSURE STEAM	/ / RETURN			•	•		
	MPS(#)	MEDIUM PRESSURE STEAN	I; (#) DENOTES PRESS	URE					
	SPD	STEAM CONDENSATE PUM	PED DISCHARGE						
		STEAM VENT PIPING							
	D(XXX)	PIPING TO BE DEMOLISHED	D - (XXX) DENOTES SYS	STEM					
	—E(XXX)—	EXISTING PIPING - (XXX) DE	ENOTES SYSTEM			—			
	—A(XXX)—	ABANDONED IN PLACE PIP	ING - (XXX) DENOTES S	SYSTEM		S П			
		TWO-WAY CONTROL VALVE				ΗÞ			
		THREE-WAY CONTROL VALVE	E				Z		
	¥ 	AUTOMATIC AIR VENT (AAV)				S	Ŭ		
		MANUAL AIR VENT (MAV)				Ż	\triangleleft		
		MANUAL BALANCING VALVE	вv)			Z	N	X	
	 X	BUTTERFLY VALVE			Z	Ш >		S	
		TRIPLE DUTY VALVE (TDV)				\mathbf{O}	Ш С	Z	
		STRAINER			ЦЩ ГШ	ΥΡΑ	\Box	Ш У	
		MANUAL ISOLATION VALVE				$ \geq $	∠ S ⇔	$(\hat{\mathbf{D}})$	
		GLOBE VALVE			U)	S S	ŹŎ	JR(
	¢	OS&Y (GATE) VALVE			Z	Ē	B ~	SBL	
		PRESSURE REDUCING VALVE	(STEAM, GAS, WATER, E	TC.)	HP	Ξ	Ź	Ď	
		AUTO-FLOW CONTROL VALVE	Ξ		ЮШ	ΑT		RO	
		CHECK VALVE			Z	≽	Ü	АR	
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	Fs	FLOW SWITCH				ШК	Σ		
	Ps	PRESSURE SWTICH				$\bigcup_{\mathcal{A}}$			
	Ţ ^{TS}	TAMPER SWITCH				ΛEI			
	<u> </u>	THERMOMETER				<			
	T	PETE'S PLUG; TEMPERATURE	/PRESSURE PORT						
DING		ABLE BUILDING COL	DOCUMENT	YEAR					
EABLI DE	E BUILDINGS AN	D FACILITIES	ANSI A117.1 NFPA 13	2009 2013	<u>M,E,&</u> CMTA	<u>P Enginee</u> , Inc.	<u>er</u> :		
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APPLICABLE BUILD ACCESSIBLE AND USE FIRE SPRINKLER COD INTERNATIONAL BUIL INTERNATIONAL ENER INTERNATIONAL FIRE NATIONAL FUEL GAS INTERNATIONAL MEC KENTUCKY PLUMBING NATIONAL ELECTRIC NATIONAL FIRE ALARI

TAGGED NOTES

- A1 BOTTOM OF DUCT AT 7'-4" AFF. A2 BOTTOM OF DUCT AT 8'-4" AFF. A3 ROUTE DUCT AS TIGHT TO WALL AS POSSIBLE. A4 PROVIDE RECTANGULAR WALL CAP ACCESSORY FROM EXHAUST FAN MANUFACTURER. COORDINATE EXACT LOCATION WITH ARCHITECTURAL ELEVATION.
- A5 BOTTOM OF LOUVER AT 8'-4" AFF. A6 BOTTOM OF LOUVER AT 6'-8" AFF.
- A7 INSTALL HEATER AS TIGHT TO CEILING AS POSSIBLE. A8 BOTTOM OF LOUVER AT 10'-8" AFF.

4 MECHANICAL - BASEBALL SECOND FLOOR SCALE: 1/8" = 1'-0" 0 2' 4'

LOUVER SCHEDULE

								FREE AREA	VELOCITY					
MARK	MANUFACTURER	MODEL #	SERVICE	DEPTH (IN)	CFM	WIDTH (IN)	HEIGHT (IN)	(SF)	(FPM)	APD (IN. WG.)	REMARKS			
L-1	GREENHECK	ESD-403	INTAKE	4	400	16	16	0.66	577	0.06	ALL			
L-2	GREENHECK	ESD-403	INTAKE	4	420	36	16	1.65	720	0.09	ALL			
L-3	GREENHECK	ESD-403	EXHAUST	4	420	36	16	1.65	720	0.07	ALL			
REMARKS:														

ACCEPTABLE MANUFACTURERS INCLUDE: GREENHECK, ACME, CARNES, RUSKIN.
 COLOR AND FINISH SELECTED BY ARCHITECT.

PROVIDE BIRD SCREEN ON INSIDE FACE OF LOUVER. PROVIDE WITH EXTENDED SILL.
 REFER TO ARCHITECTURAL ELEVATIONS FOR ADDITIONAL INFORMATION ON MOUNTING LOCATION OF LOUVERS.

			REGISTERS, GRILL	.ES, AND) DIFFU	SERS S	CHEDULE					
						DUCT INLET	DUCT BRANCH			NOISE	THROW	
MARK	MANUFACTURER	MODEL #	TYPE	GRILLE SIZE	PANEL SIZE	SIZE	SIZE	MAX CFM	P.D.	CRITERIA	PATTERN	REMARKS
E-1	TITUS	350FL	ALUMINUM FIXED SIDEWALL GRILLE	12x8	14x10	12x8	12x8	420	0.10	20	-	ALL
S-1	TITUS	300FL	ALUMINUM DOUBLE DEFLECTION GRILLE	12x8	14x10	12x8	12x8	420	0.10	25	-	ALL
	·-				•							

REMARKS: 1. ACCEPTABLE MANUFACTURERS INCLUDE: TITUS, KRUEGER, METALAIRE, CARNES, PRICE. 2. COLOR AND FINISH SELECTED BY ARCHITECT. SEE SPECIFICATION FOR COLOR SUBMITTALS.

	PACKAGED TERMINAL HEAT PUMP WITH SUPPLEMENTAL ELECTRIC HEAT SCHEDULE												
						COOLING PER	ORMANCE	HEATING	E	LECTRICAL DAT	A		
			MIN. AIRFLOW	MAX. AIRFLOW		CAPACITY		CAPACITY					
MARK	MANUFACTURER	MODEL #	(CFM)	(CFM)	WEIGHT (LBS)	(MBH)	EER	(MBH)	VOLTAGE	PHASE	MCA	REMARKS	
PTAC-1	AMANA	PTH153G	340	390	130	14.2	9.9	13.9	208 V	1	8.5	ALL	
REMARKS:	REMARKS:												

ACCEPTABLE MANOFACTORERS INCLUDE: AMANA, TRANE, LG, FRIEDRICH.
 PROVIDE UNIT WITH STANDARD DEPTH WALL SLEEVE WITH OUTDOOR GRILLE AND CONDENSATE DRAIN.
 PROVIDE UNIT WITH REMOTE DIGITAL THERMOSTAT.

	VENTILATION FAN SCHEDULE													
	E.S.P. MAX													
MARK	MANUFACTURER	MODEL #	SERVICE	CFM	("WG)	RPM	WATTS	VOLTAGE	PHASE	DRIVE	SONES	WEIGHT	REMARKS	
EF-1	GREENHECK	CSP-A510	EXHAUST	400	0.25	977	148	120 V	1	DIRECT	1.1	40	ALL	
EF-2	GREENHECK	CSP-A1410	EXHAUST	1240	0.50	1332	523	120 V	1	DIRECT	2.5	60	ALL	
SF-1	GREENHECK	CSP-A510	SUPPLY	400	0.25	977	148	120 V	1	DIRECT	1.1	40	ALL	
SF-2	GREENHECK	CSP-A1410	SUPPLY	1240	0.50	1332	523	120 V	1	DIRECT	2.5	60	ALL	
REMARK														

ACCEPTABLE MANUFACTURERS INCLUDE: GREENHECK, CARNES, CAPTIVEAIRE AND LOREN-COOK.
 PROVIDE WITH INTEGRAL DISCONNECT PER NEC WITH SINGLE POINT POWER CONNECTION.
 PROVIDE WITH UNIT MOUNTED SPEED CONTROL AND VIBRATION ISOLATION HANGERS.

SCALE: NONE

						יוובחוו				
		E	ELECTRIC	HEAT	ER SC	HEDU	LE			
		E	ELECTRIC		ER SC		LE	ELECTRIC	CAL DATA	
MARK	MANUFACTURER	E MODEL #	ELECTRIC	HEAT	ER SC MENSIONS (WIDTH	CHEDU	LE ĸw	ELECTRIC	CAL DATA PHASE	REMARK
MARK EH-1	MANUFACTURER QMARK	MODEL # MUH0381-PRO-SSP	ELECTRIC TYPE WALL BRACKET	HEAT DIM LENGTH 14	ER SC MENSIONS (WIDTH 8	CHEDU IN) HEIGHT 16	LE ^{KW} 3	ELECTRIC VOLTAGE 208 V	CAL DATA PHASE 1	REMARK

CROWN, SHEET /IDE MOUNTING OLES, ADHESIVE HALL BE 20 GAUGE ON SHAFT BEARINGS, ON STAND-OFF.	FLANGED METAL COLLAR BOTH SIDES INFILL WITH INSULATION DUCT (SUPPLY, RETURN, OUTSIDE AIR, EXHAUST) DUCT INSULATION SHALL BE CONTINUOUS THROUGH DENETRATION
ACED A MAX. PANDUIT TYPE DUCT TAPE.	CUT WALL OPENING A MAXIMUM OF 2" FROM DUCT INSULATION OR UNINSULATED DUCT.
М	
TON WHERE RE FLEX IS NOT CONNECTION.	DUCT PENETRATION THROUGH NON-RATED WALL DETAIL SCALE: NONE
LING	
FUSER	WALL MOUNTED TEMPERATURE SENSOR TEMPERATURE READ OUT. (ANALOG OR DIGITAL).
	SENSOR TAG, TAG SHALL BE ENGRAVED PLASTIC LABEL WITH UNIT SIZE AND ID NUMBER. I.E.VHP-60-D4.

WALL MOUNTED TEMPERATURE SENSOR DETAIL SCALE: NONE

	CIRCUL	ATION F	FAN SCH	IEDULE		
				ELECTRIC		
IUFACTURER	MODEL #	TYPE	WEIGHT	VOLTAGE	PHASE	REMARKS
NUTONE	CFS52BS	CEILING	30	120 V	1	ALL

ACCEPTABLE MANUFACTURERS INCLUDE: NUTONE, HUNTER, BROAN.
 PULL CHAIN OPERATED, 3-SPEED MOTOR WITH REVERSIBLE ACTION.

MARK CF-1 REMARKS:

DARK CHERRY OR LIGHT OAK BLADE FINISH SELECTED BY ARCHITECT.
 BRUSHED STEEL, WHITE, OR OIL RUBBED BRONZE FINISH SELECTED BY ARCHITECT.

REMARKS: 1. ACCEPTABLE MANUFACTURERS INCLUDE: QMARK, BERKO, MARLEY, TPI. 2. PROVIDE UL LISTED AND NEC COMPLIANT POWER DISCONNECT MEANS AND THERMAL OVERLOAD PROTECTION. 3. PROVIDE INTEGRAL CONCEALED THERMOSTAT AND RECESSED BACKBOX FOR CEILING INSTALLATION. 4. PROVIDE REMOTE MOUNTED THERMOSTAT CONTROL AND WALL BRACKET.

DESCRIPTION	MC F
LIGHTING CONTROLS	
LIGHT SWITCH: LOW VOLTAGE (WHEN PRESENT, # INDICATES QUANTITY OF CHANNELS)	46'
	46'
LINE VOLTAGE THREE-WAY, FOUR-WAY SWITCH	46
OCCUPANCY OR VACANCY SENSOR SWITCH	46'
OCCUPANCY OR VACANCY SENSOR, CEILING MOUNT	CL
OCCUPANCY SENSOR, CORNER MOUNT	CL
LIGHTING RELAY	AS
EMERGENCY AUTOMATIC TRANSFER SWITCH FOR LIGHTING CONTROLS (REFER TO DETAIL)	CL
POWER OUTLETS	
SIMPLEX RECEPTACLE (TEXT INDICATES NEMA TYPE)	1'-6
SLASH THROUGH ANY DEVICE INDICATES MOUNTING ABOVE	1'-6
COUNTERTOP 4" ABOVE BACKSPLASH	1'-6
QUADRUPLEX RECEPTACLE	CL 1'-6
JUNCTION BOX, CEILING OR WALL	
GROUND FAULT PROTECTED DUPLEX WITH WEATHER-PROOF "WHILE IN USE" TYPE DIE-CAST METAL COVERPLATE WITH	2'-2
LOCKABLE ENCLOSURE AT OUTLET - SEE SPECIFICATIONS	
SPECIFICATIONS, MOUNTING HEIGHTS, ETC.	
SURFACE OR SUSPENDED CEILING FIXTURE	
RECESSED CEILING FIXTURE	
POLE MOUNTED AREA LIGHT WITH CONCRETE BASE	
FLOODLIGHT	
EXIT LIGHT (CEILING, END, WALL MOUNT) WITH OR WITHOUT DIRECTIONAL ARROWS, WITH OR WITHOUT EGRESS HEADS	
STRIP FIXTURE	
CROSS-HATCHING INDICATES LIGHT IS POWERED FROM THE EMERGENCY-CRITICAL BRANCH	
PARALLEL-HATCHING INDICATES LIGHT IS POWERED FROM THE EMERGENCY-LIFE SAFETY BRANCH	
MISCELLANEOUS	
CONDUIT CONCEALED IN WALLS OR IN CEILING SPACE: ARROW(S) INDICATE(S) HOME RUN & # OF CIRCUITS: HASHMARKS INDICATE # OF CONDUCTORS	
DISCONNECT SWITCH	AS 5'-(
PANELBOARD, SURFACE OR FLUSH MOUNTED, HATCHING	6'-6
	AS
MOTOR CONNECTION, REFER TO EQUIPMENT CONNECTION SCHEDULE	
PROVIDE CONNECTION TO HAND DRYER (SEE ARCHITECTURAL SPECIFICATIONS)	VE AR
CONDUIT UP	
CONDUIT DOWN	
EQUIPMENT TAG, REFER TO EQUIPMENT SCHEDULE	
MECHANICAL EQUIPMENT DESIGNATOR (SEE MECH. SCHEDULES)	
	DE
	NE
ABBREVIATIONS	
OWNER FURNISHED OWNER INSTALLED	
CONTRACTOR FURNISHED CONTRACTOR INSTALLED	
CONTRACTOR FURNISHED OWNER INSTALLED	
INDICATES EMERGENCY POWER	
WEATHERPROOF - NEMA-3R, WET LOCATION LISTED. PROVIDE COVERS, RATINGS, ETC, AS SUITABLE FOR OUTDOORS.	
EXPLOSION PROOF - PROVIDE WIRING METHODS, ENCLOSURES, RATINGS, ETC. AS SUITABLE FOR HAZARDOUS LOCATION.	
AV SYSTEMS	
LOCAL SOUND SPEAKER: WALL	RE SP
DATA / VOICE	
DATA OUTLET : NUMBER BESIDE OUTLET INDICATES NUMBER OF DATA JACKS. NO NUMBER INDICATES 1 JACK.	1'-6
SLASH THROUGH ANY DEVICE INDICATES MOUNTING ABOVE COUNTERTOP 4" ABOVE BACKSPLASH	
DATA RACK: FOUR POST. REFER TO COMMUNICATIONS RISERS AND	

SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

| LI(

ELECTRICAL GENERAL NOTES

A EACH CONTRACTOR, PROPOSER, SUPPLIER AND/OR MANUFACTURER SHALL REFER TO ALL DOCUMENTS PERTAINING TO THIS PROJECT AND COORDINATE ACCORDINGLY SO AS TO ENSURE ADEQUACY OF FIT, COMPLIANCE WITH SPECIFICATIONS, PROPER VOLTAGE AND CURRENT CHARACTERISTICS TO AVOID CONFLICT WITH ANY OTHER BUILDINGS SYSTEMS. VERIFY SAME WITH SHOP DRAWINGS. B ADDITIONAL ELECTRICAL REQUIREMENTS MAY BE SHOWN ON PLANS FROM OTHER DISCIPLINES IN THIS SET. IT IS THE CONTRACTOR'S

- RESPONSIBILITY TO REVIEW ALL PLANS AND SPECIFICATIONS FOR A COMPLETE UNDERSTANDING OF THE PROJECT REQUIREMENTS. C WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ALL LOCAL, STATE, AND NATIONAL CODES. INCLUDING BUT NOT LIMITED TO NFPA 70 (NEC), NFPA 72, INTERNATIONAL BUILDING CODES, ETC. D CONTRACTOR SHALL FOLLOW SEISMIC RESTRAINT AND DESIGN REQUIREMENTS CONTAINED IN LATEST ADOPTED STATE AND
- INTERNATIONAL BUILDING CODES, WITH ALL AMENDMENTS AS ADOPTED BY THE CURRENT LEGISLATION. REFER TO ELECTRICAL AND STRUCTURAL SPECIFICATIONS FOR ADDITIONAL INFORMATION. E ALL OFFSETS, TURNS, FITTINGS, TRIM, DETAIL, ETC. MAY NOT BE INDICATED, BUT SHALL BE PROVIDED AS REQUIRED. ADDITIONAL ALLOWANCES SHALL BE INCLUDED FOR SAME AT EACH PROPOSER'S DISCRETION.
- F INSTALL NO PIPING, CONDUIT, DUCTWORK, ETC. IN A LOCATION OR IN A MANNER WHICH WILL ALLOW FREEZING OR THE COLLECTION OF CONDENSATION THEREON. IF IN DOUBT, CONTACT THE ENGINEER. G ADVISE THE ENGINEER OF ANY CONFLICTS, ERRORS, OMISSIONS, ETC. AT LEAST TEN DAYS PRIOR TO BID DATE, TO ALLOW
- CLARIFICATION BY WRITTEN ADDENDUM. H WHERE CONFLICTS ARE FOUND BETWEEN DRAWINGS, DETAILS, OR SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL
- APPLY. NOTIFY ARCHITECT OF DISCREPANCY IN WRITING. I DEVIATION FROM SPECIFICATIONS OR PLANS REQUIRES PRIOR WRITTEN APPROVAL FROM THE ENGINEERS AND MUST BE SUBMITTED IN WRITING NO LATER THAN TEN DAYS PRIOR TO THE BID DATE. J OBSERVE ALL APPLICABLE CODES, RULES AND REGULATIONS THAT MAY APPLY TO THE WORK UNDER THIS CONTRACT. (CITY, COUNTY,
- LOCAL, STATE, FEDERAL, MUNICIPALITY, UTILITY COMPANY, OSHA, ETC.). K MOUNTING HEIGHTS FOR WALL MOUNTED DEVICES INDICATED ABOVE FINISHED FLOOR ARE TO CENTER OF DEVICE UON. MOUNTING HEIGHTS TO CEILING SUSPENDED DEVICES ARE TO BOTTOM OF DEVICE UON. L INSTALL EQUIPMENT, MATERIALS, ETC. IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND DIRECTIONS. IF IN
- CONFLICT WITH THE DESIGN INDICATED IN CONTRACT DOCUMENTS, ADVISE THE ENGINEER PRIOR TO INSTALLATION FOR CLARIFICATION. M DO NOT RECESS PANELBOARD TUBS OR OTHER FLUSH-MOUNTED EOUIPMENT IN WALLS THAT HAVE A FIRE RATING. NO INSTALLATION SHALL DIMINISH OR VOID FIRE RESISTIVE RATINGS IN ANYWAY.
- N THE PURPOSE AND INTENT OF ALL OF THE DOCUMENTS PERTAINING TO THIS PROJECT IS TO PROVIDE A COMPLETE, FUNCTIONAL, SAFE, LIKE-NEW FACILITY. ANYTHING LESS SHALL BE UNACCEPTABLE. O ALL SYSTEMS, EQUIPMENT AND MATERIALS ARE TO BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. WORK NOT MEETING THIS CRITERION SHALL BE REMOVED AND REINSTALLED SATISFACTORILY. FINAL DETERMINATION OF THE ACCEPTABILITY OF THE QUALITY
- OF WORK RESIDES WITH THE ENGINEER P ALL WORK, MATERIALS, EQUIPMENT, ETC. SHALL BE FULLY GUARANTEED FOR ONE FULL CALENDAR YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION AS DOCUMENTED BY THE ENGINEER, UNLESS LONGER WARRANTY PERIODS FOR EQUIPMENT ARE SPECIFIED. O UNLESS OTHERWISE SPECIFIED OR INDICATED, ALL EOUIPMENT AND/OR MATERIALS WITHIN OCCUPIED SPACES OR EXPOSED TO VIEW
- ON THE BUILDING EXTERIOR SHALL BE PRIMED AND FINISHED SO AS TO COMPLEMENT ADJACENT SURFACE, UNLESS OTHERWISE NOTED. COORDINATE WORK AND COLORS WITH ARCHITECT. R WHERE PENETRATING ROOFING MEMBRANE OR OTHER MATERIALS USED FOR WEATHERPROOFING THE BUILDING, MAKE SUCH PENETRATION IN A WAY THAT WILL NOT VOID OR DIMINISH THE ROOFING WARRANTY OR INTEGRITY IN ANYWAY. COORDINATE ALL
- SUCH PENETRATIONS WITH THE ROOFING MANUFACTURER AND ARCHITECT. S THE CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY COMPANY FEES, CASH CONTRIBUTIONS OR OTHER COSTS THAT THE UTILITY COMPANY MAY REQUIRE TO COMPLETE THEIR WORK. (ELECTRIC, TELEPHONE, TELEVISION, DATA, ETC.). T COORDINATE WITH ARCHITECTURAL FLOOR PLANS, ELEVATIONS AND CASEWORK DETAILS FOR LOCATION OF ADDITIONAL
- RECEPTACLES, UTILITY OUTLETS, ELECTRICAL DEVICES, ETC. U CEILING-MOUNTED ELECTRICAL DEVICES SHALL BE CENTERED IN 2'X2' CEILING TILE AND INSTALLED CENTERED ON 2' DIMENSION OF 2'X4' TILE AND ON CENTERLINE OR A QUARTER POINT ON 4' DIMENSION. V ANY VIBRATING, OSCILLATING OR OTHER NOISE OR MOTION PRODUCING EQUIPMENT SHALL BE ISOLATED FROM SURROUNDING
- SYSTEMS IN AN APPROVED MANNER. NOISY OR STRUCTURALLY DAMAGING INSTALLATIONS SHALL BE SATISFACTORILY REPLACED OR REPAIRED AT THE INSTALLING CONTRACTORS' EXPENSE. THE FINAL DECISION ON THE SUITABILITY OF A PARTICULAR INSTALLATION'S ACCEPTABILITY SHALL BE THAT OF THE ENGINEER. W CHECK ALL THREE PHASE MOTORS WITH A PHASE ROTATION METER, PRIOR TO PLACING IN SERVICE.
- X PROVIDE DETAILED SHOP DRAWINGS TO ENGINEER PRIOR TO PURCHASING OR INSTALLING ANY EQUIPMENT Y DEVIATIONS IN SIZES, CAPACITIES, FIT, FINISH, ETC. FOR EQUIPMENT FROM THAT PRIME SPECIFIED SHALL BE THE RESPONSIBILITY OF THE PURCHASER OF THAT EQUIPMENT. ANY PROVISIONS REQUIRED TO ACCOMMODATE A DEVIATION, WHETHER APPROVED BY THE ENGINEER OR NOT, SHALL BE THE RESPONSIBILITY OF THE PURCHASER.
- Z THE CONSTRUCTION MANAGER, GENERAL CONTRACTOR, OR WHOMEVER HOLDS THE PRIME CONTRACT(S) FOR THIS CONSTRUCTION IS RESPONSIBLE FOR THE COORDINATION, APPEARANCE, SCHEDULING AND TIMELINESS OF THE WORK OF ALL TRADES, CONTRACTORS, SUPPLIERS, INSTALLERS, ETC. POOR OR UNTIMELY WORK ON THE PART OF ANY SUBCONTRACTOR SHALL BE RESOLVED BY THE PARTY WHO ENGAGED THEM ON THIS PROJECT.
- AA WHERE MOUNTING HEIGHTS ARE NOT INDICATED OR ARE IN CONFLICT WITH ANY OTHER BUILDING SYSTEM, CONTACT THE ENGINEER BEFORE AFFECTING INSTALLATION. REFER ALSO TO ARCHITECTURAL INTERIOR AND EXTERIOR ELEVATIONS, CEILING HEIGHTS AND OTHER DETAILS OF THESE DOCUMENTS, AS APPLICABLE. AB WHERE FIRE-RATED CEILING ASSEMBLIES ARE NOTED, PROVIDE UL-LISTED FIRE-RATED GYPSUM BOARD OR PRE-MANUFACTURED
- ENCLOSURES ABOVE LUMINAIRES, CEILING DEVICES, ETC. IN OR ON CEILING, AS REQUIRED TO MAINTAIN CEILING RATINGS. AC COORDINATE THE LOCATION OF DRAINS, ELECTRICAL OUTLETS, GAS OUTLETS, ETC. WITH ALL CASEWORK, KITCHEN EQUIPMENT MECHANICAL ROOM EQUIPMENT, ETC. PRIOR TO COMMENCING INSTALLATION. WORK NOT SO COORDINATED SHALL BE REMOVED AND PROPERLY INSTALLED AT THE EXPENSE OF THE RESPONSIBLE CONTRACTOR(S).
- AD ALL ELECTRICAL COMPONENTS OR EQUIPMENT SHALL BE LISTED AND LABELED BY UNDERWRITER'S LABORATORIES OR OTHER APPROVED LISTING AGENCY. APPROVAL AND LABELING OF INDIVIDUAL COMPONENTS ON AN ASSEMBLY IS NOT ACCEPTABLE AS

MEETING THIS REQUIREMENT, UNLESS WAIVED BY THE ENGINEER IN WRITING.

- AE ALL WIRING SYSTEMS SHALL BE INSTALLED WITH A MINIMUM OF SPLICES. CONDUCTORS, WHETHER SINGLE OR MULTI-PAIR, SHALL BE INSTALLED CONTINUOUS INSOFAR AS POSSIBLE FROM TERMINAL POINT TO TERMINAL POINT. AF NO CONDUIT, SUPPORTS, ETC. SHALL BE RUN THROUGH ACCESS CLEARANCES OF EQUIPMENT BY OTHER TRADES (I.E. VAV BOXES). COORDINATE WITH ALL TRADES PRIOR TO CONSTRUCTION.
- AG ALL CONTRACTORS SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK SO AS TO ENSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE OR SUB-SERVICE FOR SAFETY PURPOSES. PAY PARTICULAR ATTENTION TO THIS PRECAUTION RELATIVE TO NATURAL GAS AND ELECTRICAL LINES. VERIFY THE LOCATION, SIZE, TYPE, ETC. OF EACH UNDERGROUND OR OVERHEAD UTILITY. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL FEDERAL, STATE AND/OR LOCAL RULES, REGULATIONS, STANDARD AND SAFETY REQUIREMENTS. UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE MUNICIPALITY OR UTILITY COMPANY
- STANDARDS. IN ALL CASES, THE MOST STRINGENT REQUIREMENT SHALL APPLY. AH ALL SUPPORTS FOR EQUIPMENT, DEVICES OR FIXTURES SHALL BE UNIQUE, DIRECTLY FROM THE BUILDING STRUCTURE. DO NOT SUPPORT WORK FROM OTHER TRADES EQUIPMENT OR SUPPORTS WITHOUT WRITTEN PERMISSION FROM THE ENGINEER AND CONSENT OF THE OTHER TRADE, IN WRITING.
- AI WHERE INTERRUPTING AN EXISTING UTILITY OR SERVICE DELIBERATELY OR ACCIDENTALLY, THE RESPONSIBLE CONTRACTOR SHALL WORK CONTINUOUSLY AS NEEDED TO RESTORE SAME, PROVIDING PREMIUM TIME AS NEEDED. AJ REFER TO ARCHITECTURAL WALL ELEVATIONS (WHERE GIVEN) FOR HEIGHTS AND MOUNTING RELATIONSHIP OF OUTLETS AND
- EQUIPMENT. IF IN DOUBT, CONTACT ENGINEER FOR DIRECTION PRIOR TO ROUGH IN. AK FLUSH OR PEDESTAL TYPE FLOOR OUTLETS/BOXES, AS INDICATED ON PLAN, SHALL BE LOCATED BY DIMENSIONS PROVIDED BY THE
- ARCHITECT, UNLESS OTHERWISE SHOWN ON PLANS. IF IN DOUBT, CONTACT THE ENGINEER PRIOR TO ROUGHING-IN ANY WORK. AL AS APPLICABLE, REFER TO ARCHITECTURAL PHASING PLANS AND PHASING BOUNDARIES ON THESE DRAWINGS FOR SEQUENCING OF WORK, FULL EXTENT OF AREAS INVOLVED, EXTENT OF CEILING WORK, ETC. PROVIDE TEMPORARY CONNECTIONS FOR CIRCUITS AND WORK AS REQUIRED TO MAINTAIN SEQUENCE OF THE WORK FROM PHASE TO PHASE.
- AM THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED FOR HIS WORK. ALL CUTTING AND PATCHING SHALL BE IN ACCORDANCE WITH THE ARCHITECT'S STANDARDS FOR SUCH WORK. AN ALL WORK SHALL BE CONCEALED UNLESS SPECIFICALLY INDICATED TO BE EXPOSED, OR REQUIRED TO BE EXPOSED. IF IN DOUBT,
- CONTACT THE ENGINEER FOR CLARIFICATIONS PRIOR TO INSTALLING ANY SUCH WORK. AO INTERRUPTION OF ANY EXISTING SERVICES SHALL BE COORDINATED WITH THE OWNER, GENERAL CONTRACTOR, UTILITY COMPANY AS NECESSARY, AND THE ARCHITECT, AT LEAST TWO WEEKS IN ADVANCE OF ANTICIPATED INTERRUPTION. A SCHEDULE FOR THESE OUTAGES SHALL BE DEVELOPED AND AGREED UPON BETWEEN THE PARTIES MENTIONED TO AVOID UNNECESSARY INCONVENIENCE TO THE OWNER OR ANY AFFECTED PARTY. NOTIFY THE UTILITY COMPANY OF ANY ANTICIPATED SERVICES REQUIRED TWO WEEKS IN
- ADVANCE, IN WRITING. IF UTILITY COMPANY REQUIRES A LONGER NOTIFICATION PERIOD, SO PROVIDE. AP WHERE BACKBOXES ARE LOCATED IN THE SAME VERTICAL CHANNEL/STUD SPACE ON OPPOSITE SIDES OF THE SAME WALL, PROVIDE
- SOUND-INSULATING PUTTY AROUND BOXES AS REQUIRED TO ELIMINATE SOUND TRANSMISSION FROM ROOM TO ROOM. AO JUNCTION BOXES LOCATED ABOVE ACCESSIBLE CEILINGS SHALL BE LOCATED NO MORE THAN 36" ABOVE CEILING LEVEL. LABEL EACH BOX IN AREA OF WORK WITH A PERMANENT MARKER OR IN ACCORDANCE WITH SPECIFICATIONS, WHICHEVER IS MORE STRINGENT. AR ALL MATERIALS FURNISHED AND ALL WORK INSTALLED SHALL COMPLY WITH THE CURRENT EDITION OF THE NATIONAL ELECTRICAL
- CODES, NATIONAL FIRE CODES OF THE NATIONAL FIRE PROTECTION ASSOCIATION, THE REQUIREMENTS OF LOCAL UTILITY COMPANIES, AND WITH THE REQUIREMENTS OF ALL GOVERNMENTAL AGENCIES OR DEPARTMENTS HAVING JURISDICTION. IF ANY CONFLICTS OR DISCREPANCIES OCCUR THE MOST STRINGENT SHALL APPLY. AS DO NOT SCALE FROM DRAWINGS, AS PRINTING DISTORTS SCALE. WORK SHALL BE LAID OUT FROM DIMENSIONED DRAWINGS, OR
- DIMENSIONS SUPPLIED TO THE CONTRACTOR. AT NOISY WORK, WORK OUTSIDE CONSTRUCTION BARRIERS, WORK IN OCCUPIED AREAS, ETC. SHALL BE PERFORMED AFTER HOURS OR ON WEEKENDS. COORDINATE EXACT SCHEDULING WITH FACILITY PRIOR TO CONSTRUCTION.
- AU ALL ITEMS HAVING KEYED LOCKS/OPERATORS SHALL HAVE CORED LOCKS/OPERATORS. ALL KEYING SHALL MATCH THE OWNER'S EXISTING KEY-WAYS. COORDINATE EXACT REQUIREMENTS WITH OWNER PRIOR TO CONSTRUCTION. AV REFER TO ARCHITECTURAL PLANS FOR PHASING REQUIREMENTS. WORK SHALL BE COMPLETED IN PHASES PER THE PHASING PLAN AND
- AS COORDINATED WITH OWNER AND GENERAL CONTRACTOR. PROVIDE ALL REQUIRED INCREMENTAL INSPECTIONS, CERTIFICATIONS, ETC. AND ALL TEMPORARY SERVICES AS REQUIRED BY OWNER TO ACCOMPLISH THE PHASING PLAN.

ELECTRICAL DEMOLITION NOTES

- A DOTTED LINES INDICATE ITEMS FOR REMOVAL (UON) AND SOLID HALFTONE LINES INDICATE EXISTING ITEMS TO REMAIN. B THE CONTRACTOR SHALL MAINTIN THE CONTINUITY OF EXISTING CIRCUITS THAT CONTAIN DEVICES OR EQUIPMENT THAT ARE TO REMAIN. WHEN DEMOLITION OF AN ELECTRICAL DEVICE (OR CIRCUIT) IS INDICATED ON THE DRAWINGS: THE CONTRACTOR SHALL ENSURE THAT OTHER DEVICES OR EQUIPMENT "UPSTREAM" OR "DOWNSTREAM" ON THE CIRCUITS SHALL REMAIN IN "PRE-DEMOLITION" WORKING ORDER. "LEFT-OVER" CIRCUIT BREAKERS SHALL REMAIN, BE SWITCHED TO OFF POSITION, AND BE LABELED AS SPARES IN THEIR PANELS. PROVIDE NEW TYPEWRITTEN DIRECTORIES FOR ALL PANELS AFFECTED.
- C LOCATIONS OF DEVICES, CONNECTIONS, ETC., INDICATED ON THIS DRAWING WERE TAKEN FROM VARIOUS SOURCES. THEY ARE DIAGRAMMATIC ONLY AND ARE SUBJECT TO VARIATION FROM EXISTING CONDITIONS. CERTAIN EXISTING ELEMENTS MAY NOT BE INDICATED AT ALL. THE CONTRACTOR PROPOSING TO DO ANY PART OF THE WORK INDICATED HEREON SHALL VISIT THIS SITE AND DETERMINE TO HIS SATISFACTION THAT THEY MAY COMPLETE ALL WORK REQUIRED FOR THE BID WHICH HE PROPOSES.
- D REMOVE ALL ASSOCIATED BACKBOXES, CONDUIT AND CONDUCTORS FOR DEVICES / FIXTURES / ETC. BEING REMOVED (BACK TO SOURCE), WHETHER INDICATED OR NOT (UON). CONTRACTOR SHALL PATCH AND REPAIR ANY EXISTING WALLS, FLOORS OR CEILINGS WHERE DEVICES ARE SHOWN TO BE REMOVED (PATCH AND REPAIR TO RECEIVE NEW FINISHES - SEE ARCHITECTURAL PLANS). E COORDINATE DISPOSAL OF ALL FIXTURES, DEVICES, ETC. (INDICATED FOR DEMOLITION) WITH OWNER. TURN OVER ITEMS REMOVED
- TO OWNER AT THEIR OPTION. F COORDINATE WITH OTHER TRADES FOR THE REMOVAL AND/OR RELOCATION OF ELECTRICAL DEVICES AND CONNECTIONS ASSOCIATED WITH THEIR EQUIPMENT.
- G PROVIDE TEMPORARY EMERGENCY EXIT LIGHTS AT CONSTRUCTION BARRIERS AS REOUIRED. H CONTRACTOR SHALL PATCH AND REPAIR ALL EXISTING WALLS / CEILINGS AS REQUIRED WHERE DEVICES ARE BEING REMOVED OR
- INSTALLED. I UNUSED/ABANDONED CONDUCTORS DISCOVERED ABOVE ACCESSIBLE CEILINGS SHALL BE REMOVED IN ACCORDANCE WITH NEC
- REQUIREMENTS. J EXISTING ELECTRICAL SYSTEMS IN CONFLICT WITH CONSTRUCTION SHALL BE RELOCATED TO PERMIT INSTALLATION OF DEVICES AND EQUIPMENT SHOWN ON PLANS.
- K CONTRACTOR SHALL SEAL ALL EXISTING AND NEW PENETRATIONS OF BUILDING ENVELOPE (EXTERIOR WALLS, ROOF, ETC.) WATER-TIGHT AND AS APPROVED BY ARCHITECT AND ENGINEER. ROOFING SHALL BE RESTORED BY A LICENSED ROOFING CONTRACTOR BASED ON WRITTEN INSTRUCTIONS AND DETAILS FROM ROOFING MANUFACTURER AS REQUIRED TO MAINTAIN ROOF WARRANTY. REFER TO ARCHITECTURAL AND ENGINEERING PLANS AND SPECIFICATIONS FOR FURTHER REQUIREMENTS.
- L DEVICES INDICATED WITH AN "R" SHALL BE RELOCATED, REMOVE, PROTECT, AND REINSTALL IN NEW LOCATION INDICATED ON NEW WORK PLANS. INTERCEPT AND EXTEND ALL EXISTING CABLING TO NEW LOCATION. CLEAN AND RE-LAMP RELOCATED LUMINAIRES. M ALL EXISTING PANELS AFFECTED BY THIS CONTRACTOR'S WORK SHALL BE PROVIDED WITH NEW TYPE-WRITTEN PANEL DIRECTORIES AND INSERT SLEEVES. PANEL DIRECTORIES SHALL NOT USE ROOM NAMES OR NUMBERS FROM THESE DRAWINGS. DIRECTORIES SHALL BE DETAILED AND COORDINATED WITH OWNER'S SUITE NUMBERS, FINAL ROOM NUMBERS, IT RACK NAMES, WORKSTATION
- DESIGNATIONS, ETC. UNUSED BREAKERS SHALL BE IN OFF POSITION. N CONTRACTOR TO VERIFY THAT THERE ARE NO ELECTRICAL CIRCUITS IN CHASES BEING REMOVED UNDER DEMOLITION WHICH REMAIN IN SERVICE AND CANNOT BE REMOVED. SHOULD SUCH CIRCUITS BE ENCOUNTERED, THE CONTRACTOR IS TO REROUTE AND RECONNECT AS REQUIRED TO MAINTAIN SERVICE.

FIRST FLOOR LIGHTING PLAN - SOFTBALL CONCESSIONS **5 BUILDING** 1E2.0) 1/8" = 1'-0"

(S5)

(S6)

(S4)

SB2 -

SB

FIRST FLOOR LIGHTING PLAN - BASEBALL CONCESSIONS **BUILDING** 1E2.0 1/8" = 1'-0"

SECOND FLOOR LIGHTING PLAN - BASEBALL CONCESSIONS 4 BUILDING 1E2.0 1/8" = 1'-0"

LIGHTING PLAN - BASEBALL HOME DUGOUT

LIGHTING PLAN - BASEBALL VISITOR DUGOUT

<u>EL</u>	ECTRICAL LIGHTING NOTES
A	REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELE CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AI MOUNTED ELECTRICAL DEVICES.
В	CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRAN PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CO SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONA ARE RAN IN THE SAME CONDUIT WITH THOSE INDICATED, C SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER N #310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER N.E AND ANNEX C. MULTIWIRE BRANCH CIRCUITS AS DEFINED I 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR PERMITTED.
C	IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPS SWITCHES, ETC. IN AREA OF CONSTRUCTION. PROVIDE CLEA LABELS WITH BLACK LETTERING. IN HEALTHCARE FACILITIES EMERGENCY DEVICE COVERPLATES IN PATIENT CARE AREAS. INSIDES OF ALL DEVICE BOXES WITH PANEL AND CIRCUIT N
D	LOCATE CHAIN-HUNG INDUSTRIAL FIXTURES IN MECHANICA AVOID DUCTWORK AND PIPING, TO MAXIMIZE AVAILABLE LI AROUND EQUIPMENT, AIR HANDLERS, ETC. TO PROVIDE ADE LIGHTING TO ALL AREAS OF ROOM. PROVIDE ADDITIONAL FI SAME TYPE AS NEEDED TO FULFILL THIS REQUIREMENT.
E	LOCATE EXIT SIGNS FOR MAXIMUM VIEWING AREA TO IDENT PATHS AS INDICATED ON PLANS. COORDINATE LOCATIONS ARCHITECTURAL FEATURES OR EQUIPMENT FROM OTHER TR OBSTRUCT VIEW.
F	LUMINAIRES INDICATED WITH MULTI-LEVEL SWITCHING SHA SIMILAR LAMPS CONTROLLED TOGETHER, I.E. INBOARD AND LAMPS OR RIGHT AND LEFT HAND LAMPS.
G	ALL LIGHTING FIXTURE LENSES, PARABOLIC LOUVERS, DOWI ALZAK CONES AND "PARACUBE" LOUVERS SHALL BE HANDLED GLOVES DURING INSTALLATION AND LAMPING TO AVOID FIN DIRT DEPOSITS. IT IS PREFERRED THAT FIXTURES BE SHIPP INSTALLED WITH CLEAR PLASTIC BAGS TO PROTECT LOUVER PROJECT, AND AFTER CONSTRUCTION AIR FILTERS ARE CHA BAGS. ANY LOUVER OR CONE SHOWING DIRT OR FINGER PRI CLEANED WITH SOLVENT RECOMMENDED BY THE MANUFACT REPLACED AS NECESSARY IN ORDER TO TURN OVER TO THE FIXTURES AT OCCUPANCY.
Н	RECESSED LUMINAIRES SHALL BE SECURED SUCH THAT THE REQUIRED INSERTING LAMPS, TRIMS, LENSES, LOUVERS, OR DOES NOT SHIFT HOUSING. ALL TRIMS SHALL BE COMPLETE FINISHED CEILINGS AT COMPLETION OF CONSTRUCTION.
-	CONTRACTOR CLIMAL BROUGES LINGUATED CONDUCTOR T

TAGGED NOTES

REQUIRED.

- L1 CONNECT TO FIRST FLOOR LIGHTING CIRCUIT. PROVIDE PHOTOCELL ON ROOF. PROVIDE LOW VOLTAGE WIRING L2
- FROM RELAY TO PHOTOCELL FOR CONTROL. L3 WALL PACK SHALL BE CONTROLLED VIA PHOTOCELL AND SHALL NOT BE SWITCHED.

7 POWER PLAN - SOFTBALL HOME DUGOUT

6 SECOND FLOOR POWER PLAN - SOFTBALL CONCESSIONS

4 POWER PLAN - BASEBALL VISITOR DUGOUT

3 POWER PLAN - BASEBALL HOME DUGOUT 1E3.0 1/8" = 1'-0"

2 SECOND FLOOR POWER PLAN - BASEBALL CONCESSIONS

5 FIRST FLOOR POWER PLANS - SOFTBALL CONCESSIONS

E6 BB03 BB1 -13

1 1 1 1/8" = 1'-0" **FIRST FLOOR POWER PLANS - BASEBALL CONCESSIONS**

TAGGED NOTES

BREAKER FOR THIS CIRCUIT.

E2 DEDICATED CIRCUIT FOR WATER FOUNTAINS. PROVIDE A GFCI

E3 ELECTRICAL CONNECTION TO ELECTRIC HAND DRYER.

8" SQUARE BOX BEHIND RACK AT 6' A.F.F.

GROMMETTS BY COUNTERTOP INSTALLER.

(1) 3/4" CONDUIT BACK TO SOUND EQUIPMENT RACK.

BB1 -3 BB1 -21,23

E5 APPROXIMATE SOUND EQUIPMENT RACK LOCATION. PROVIDE AN E6 DEDICATED SOUND EQUIPMENT RACK RECEPTACLE CIRCUIT. E7 MIC INPUT LOCATION. PROVIDE SINGLE GANG BOX CENTERED BETWEEN WINDOWS UNDER DESK TOP MOUNTED AT 18" A.F.F. PROVIDE (1) 3/4" CONDUIT TO SOUND EQUIPMENT RACK. E8 ANTENNA LOCATION. PROVIDE SINGE GANG BOX ABOVE WINDOW. PROVIDE (1) 3/4" CONDUIT TO SOUND EQUIPMENT RACK. ED1 DEMOLISH ALL EXISTING ELECTRICAL DEVICES IN THIS SPACE. IN ACCORDANCE WITH NEC 406.3(E). NOTIFY OTHER TRADES OF REQUIRED CLEARANCE AREAS TO AVOID ROUTING OF OTHER SYSTEMS IN THESE AREAS. DO NOT INSTALL ELECTRICAL EQUIPMENT OVER EQUIPMENT NAMEPLATES OR ACCESS PANELS OR THROUGH ACCESS/MAINTENANCE CLEARANCES OF EQUIPMENT BY OTHER TRADES.

- MOUNTED ELECTRICAL DEVICES. ARE RAN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER NEC 310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER NEC 300.17 AND ANNEX C. MULTIWIRE BRANCH CIRCUITS AS DEFINED IN NEC 100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED. C IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES,

- **ELECTRICAL POWER NOTES**

- ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS

- PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A

- A REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING B CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED

- DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS
- SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS

- E4 APPROXIMATE SPEAKER LOCATION. PROVIDE A SINGLE GANG BOX
- CENTERED BETWEEN WINDOW AND SIDE OF BUILDING. PROVIDE

 - SWITCHES, ETC. IN AREA OF CONSTRUCTION. PROVIDE CLEAR ADHESIVE LABELS WITH BLACK LETTERING. IN HEALTHCARE FACILITIES, ENGRAVE EMERGENCY DEVICE COVERPLATES IN PATIENT CARE AREAS. MARK INSIDES OF ALL DEVICE BOXES WITH PANEL AND CIRCUIT NUMBER.

 - D RECEPTACLES THAT ARE CONTROLLED BY AN AUTOMATIC MEANS SUCH AS OCCUPANCY SENSOR OR ENERGY MANAGEMENT SYSTEM SHALL BE MARKED

 - E LOCATIONS OF ELECTRICAL CONNECTIONS AND LOCAL DISCONNECTS SHALL BE COORDINATED WITH MECHANICAL AND PLUMBING CONTRACTORS TO

 - ENSURE ACCESS AND WORKING CLEARANCE IS MAINTAINED PER NEC.

TYPE	DESCRIPTION	BASIS OF DESIGN E	QUALS LAMPS / CCT	MINIMUM LUMENS	MOUNTING	MAXIMUM WATTAGE	V
BL	LINEAR LED 400nm RUBBERCOATED BLACK LIGHT IN ADJUSTABLE SURFACE CHANNEL	KELVIX	BL LED	-	SURFACE	0	
F1	SURFACE MOUNTED 11" X 48/.58" ARCHITECTURAL VANDAL RESISTANT LED WITH FORMED STEELHOUSING 5,443 DELIVERED LUMENS, YL LISTING FOR WET LOCATIONS	LITHONIA CLF74	4000K LED	5,443	SURFACE	54	
F2	SURFACE MOUNTED LED STRIP LIGHT, 4000K, 3,000 NOMINAL LUMENS	LITHONIA ZL1N	4000K LED	3,173	SURFACE	0	
L1	SURFACE MOUNTED 2X4 LED TROFFER, 4000K, 4,000 NOMINAL LUMENS	LITHONIA 2TLX4	4000K LED	3,945	SURFACE	0	
S1	WALL MOUNTED 48" LED LINEAR, 4000K, 3,000 NOMINAL LUMENS	LITHONIA CLX	4000K LED	4000	WALL	0	
W1	WALL MOUNTED ARCHITECTURAL WALL SCONCE, 4000K,	LITHONIA WDGE3	4000K LED	4,574	WALL	51	
W2	POLE MOUNTED AREA LUMINAIRE SIZE 1 P2 LUMEN PACKAGE, 4000K TYPE R2 DISTRIBUTION	LITHONIA RSX1	4000K LED	9,878	POLE	73	
W3	POLE MOUNTED AREA LUMINAIRE SIZE 1 P2 LUMEN PACKAGE, 4000K TYPE R3 DISTRIBUTION	LITHONIA RSX1	4000K LED	9,843	POLE	73	
X1	RED LETTERED SINGLE FACED EXIT LIGHT	LITHONIA LQM	LED	-	SURFACE/WA LL	2	

	NELBOARD AND N	WIRING SC	HE	Dl	JLE												
	PANEL: SB1					MAIN		E: MCE	3			PANE	_ IN	TERRL	JPTING RATING: <en< td=""><td>IGINEER TO SPECIFY></td><td></td></en<>	IGINEER TO SPECIFY>	
	VOLTAGE: 208Y/120V,3P,4W						SPI	D:							LOCATION: STO	ORAGE SB03	
	AMPERES: 200 A					МО	UNTIN	G: SUF	RFACE						SUPPLY FROM:		
NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	Р	СКТ		A		B	(C	СКТ	Ρ	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTIO	N NOTES
	REC SOFTBALL CONCESSIONS	1-#12, 1-#12, 1-#12	20	1	1	0.7	0.9					2	1	20	1-#12, 1-#12, 1-#12	REC SOFTBALL CONCESSION	S
	REC SOFTBALL CONCESSIONS	1-#12, 1-#12, 1-#12	20	1	3			0.5	0.7			4	1	20	1-#12, 1-#12, 1-#12	REC SOFTBALL CONCESSION	S
	REC SOFTBALL CONCESSIONS	1-#12, 1-#12, 1-#12	20	1	5					0.5	0.2	6	1	20	1-#12, 1-#12, 1-#12	*REC SOFTBALL CONCESSIO	NS 1
	EH-2 SOFTBALL CONCESSIONS	2-#12, 1-#12, 1-#12	20	2	79	1.5	1.5	1.5	1.5			8 10	2	20	2-#12, 1-#12, 1-#12	EH-2 SOFTBALL CONCESSION	IS
	EH-2 SOFTBALL CONCESSIONS	2-#12, 1-#12, 1-#12	20	2	11 13	1.5	1.5			1.5	1.5	12 14	2	20	2-#12, 1-#12, 1-#12	EH-2 SOFTBALL CONCESSION	IS
	EH-1 SOFTBALL CONCESSIONS	2-#12, 1-#12, 1-#12	20	2	15 17			1.5	1.5	1.5	1.5	16 18	2	20	2-#12, 1-#12, 1-#12	EH-1 SOFTBALL CONCESSION	IS
	BLACK LIGHT SB08	1-#12, 1-#12, 1-#12	20	1	19	0.0	1.5					20	1	20	1-#12, 1-#12, 1-#12	ELECTRIC HAND DRYER	
	PTAC-1 RM SB07	1-#10, 1-#10, 1-#10	15	1	21			1.8	1.5			22	1	20	1-#12, 1-#12, 1-#12	ELECTRIC HAND DRYER	
	ELECTRIC HAND DRYER	1-#12, 1-#12, 1-#12	20	1	23					1.5	1.5	24	1	20	1-#12, 1-#12, 1-#12	ELECTRIC HAND DRYER	
	REC SOFTBALL PRESSBOX	1-#12, 1-#12, 1-#12	20	1	25	0.7	0.7					26	1	20	1-#12, 1-#12, 1-#12	REC SOFTBALL PRESSBOX	
		2 #12 1 #12 1 #12	20	2	27			1.5	0.2			28	1	20	1-#12, 1-#12, 1-#12	SOFTBALL FIELD IRRIGATION	
	EIT-1 SOFTBALL HOME DOGOUT	2-#12, 1-#12, 1-#12	20	2	29					1.5	0.2	30	1	20	1-#12, 1-#12, 1-#12	BASEBALL FIELD IRRIGATION	
	REC SOUND RACK EQUIPMENT	1-#12, 1-#12, 1-#12	20	1	31	0.4	0.4					32	1	20	1-#12, 1-#12, 1-#12	REC SOFTBALL VISITORS DU	GOUT
	SB01 CEILING FANS	1-#12, 1-#12, 1-#12	20	1	33			1.0	0.0			34	1	20		SPARE	
	SPARE*		20	1	35					0.0	0.0	36	1	20		SPARE	
	SPARE*		20	1	37	0.0	0.0					38	1	20		SPARE	
	SPARE*		20	1	39			0.0	0.0			40	1	20		SPARE	
	SPARE*		20	1	41					0.0	0.0	42	1	20		SPARE	
						11.2 94	2 kVA 4 A	13.2 11	kVA 0 A	11.3 94	kVA I A	-					
LOAD	CLASSIFICATION	CONNECTED LO	DAD	DE	MAND	FACT	OR	ESTIN	MATED	DEMA	ND				PAN	EL TOTALS	
EQUIP		29968 VA			100	.00%			29968	VA						TOTAL CONNECTED LOAD:	35728 VA
LTNG		0 VA			0.0	0%			0 V.	A					ТС	DTAL ESTIMATED DEMAND:	35728 VA
REC		5760 VA			100	.00%			5760	VA					TOT	AL CONNECTED CURRENT:	99 A
															TOTAL ESTI	MATED DEMAND CURRENT:	99 A
															25	% ADDITIONAL CAPACITY:	25 A
																TOTAL PANEL CURRENT:	124 A
NOTES	: WHERE NOT LISTED. WIRE AND	CONDUIT SHALL BE	BE MIN	IIMU	M PER	SPEC	IFICAT	IONS.	SPARF	BREA	KERS 1	OBE	20A	/1P.		I.	

1. * + GFI BREAKER

PANELBOARD AND WIRING SCHEDULE 000

PANEL: SB2					MAINS TYPE: MCB							PANEL INTERRUPTING RATING: < ENGINEER TO SPECIFY>					
VOLTAGE: 480Y/277V,3P,4W					SPD:							LOCATION: STORAGE SB03					
AMPERES: 1 A				MOUNTING: SURFACE								SUPPLY FROM:					
NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	Ρ	СКТ		Α	I	В	0	0	CKT	Ρ	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTIO	N NOTES
	LTNG SOFTBALL CONCESSIONS	1-#12, 1-#12, 1-#12	20	1	1	0.0	0.2					2	1	20	1-#12, 1-#12, 1-#12	LTNG HOME DUGOUT SB08	
	LTNG VISITOR DUGOUT SB10	1-#12, 1-#12, 1-#12	20	1	3			0.2	0.0			4					
	SOFTBALL CONCESSIONS	1-#12, 1-#12, 1-#12	20	1	5					0.2	0.0	6	3	20	3-#12, 1-#12, 1-#12	075 kVA	
					7	4.0	0.0					8					
	WH-2 SOFTBALL RM SB04	3-#10, 1-#10, 1-#10	30	3	9			4.0	0.2			10	1	20	1-#12, 1-#12, 1-#12	SITE LTNG	
					11					4.0	0.0	12	1	20		SPARE	
	SPARE*		20	1	13	0.0	0.0					14	1	20		SPARE	
	SPARE*		20	1	15			0.0	0.0			16	1	20		SPARE	
	SPARE*		20	1	17					0.0	0.0	18	1	20		SPARE	
	SPARE*		20	1	19	0.0	0.0					20	1	20		SPARE	
						4.2	kVA	4.4	kVA	4.2	kVA						
						1:	5 A	16	δA	15	δA						
LOAD (LASSIFICATION	CONNECTED LO	AD	DE	MAND	FACT	OR	ESTIN	IATED	DEMA	ND				PANE	L TOTALS	
EQUIP		12000 VA			100.	00%			12000	VA						TOTAL CONNECTED LOAD:	12849 VA
LTNG		849 VA			100.	.00%			849 \	/A		TOTAL ESTIMATED DEMAND:			12849 VA		
															TOT	AL CONNECTED CURRENT:	15 A
															TOTAL ESTIN	ATED DEMAND CURRENT:	15 A
															25	% ADDITIONAL CAPACITY:	4 A
																TOTAL PANEL CURRENT:	19 A
NOTES	WHERE NOT LISTED, WIRE AND	CONDUIT SHALL BE I	BE MIN	IMU	M PER	SPEC	IFICAT	IONS.	SPARE	BREAK	KERS 1	O BE :	20A/	'1P.			

FLEC-LUM

IINAIRE SCHEDU SIS OF DESIGN KELVIX THONIA CLF74	EQUALS	LAMPS / CCT BL LED 4000K LED	MINIMUM LUMENS - 5,443	MOUNTING SURFACE SURFACE	MAXIMUM WATTAGE 0 54	VOLTAGE 24 277	REMARKS WET LOCATION VANDAL RESISTANT		ant nitects
THONIA ZL1N THONIA 2TLX4 ITHONIA CLX HONIA WDGE3 THONIA RSX1		4000K LED 4000K LED 4000K LED 4000K LED 4000K LED 4000K LED	3,173 3,945 4000 4,574 9,878 9,843	SURFACE SURFACE WALL WALL POLE POLE	0 0 51 73 73	277 277 277 277 277 277 277 277	FACTORY INSTALLED PHOTOCELL FACTORY		OSSTAIT OSTAIT OTC
THONIA LQM		LED	-	SURFACE/WA	2	MVOLT	INSTALLED PHOTOCELL		D1 old lafayette aver
PANELBOARD AND PANEL: BB1 VOLTAGE: 208Y/120V,3P,4V AMPERES: 125 A		EDULE Mains type: MC SPD: Mounting: Sui	B RFACE	PANEL INTERRUPTIN	G RATING: <engin .OCATION: STORAG PLY FROM:</engin 	EER TO SPECIFY> GE BB02			
NOTES CIRCUIT DESCRIPTION REC BASEBALL CONCESSIONS BE REC BASEBALL CONCESSIONS BE EH-2 BASEBALL CONCESSIONS BB01 REC BASEBALL CONCESSIONS BB01 REC BASEBALL PRESSBOX BB05 BB01 CEILING FANS REC SOUND RACK EQUIPMENT SF-1 BASEBALL BB02 EF-2 RM SB05 SF-2 RM SB02 EF-1 BASEBALL BB02 EF-1 BASEBALL BB02 PTAC RM BB04 SPARE* SPARE* SPARE* LOAD CLASSIFICATION EQUIP LTNG REC	HOT, NEUT, GND OC 301 1-#12, 1-#12, 1-#12 2 301 1-#12, 1-#12, 1-#12 2 2-#12, 1-#12, 1-#12 2 1-#12, 1-#12, 1-#12 2 1-#12, 1-#12, 1-#12 2 1-#12, 1-#12, 1-#12 2 1-#12, 1-#12, 1-#12 1 1-#12, 1-#12, 1-#12 1 1-#12, 1-#12, 1-#12 1 1-#12, 1-#12, 1-#12 1 1-#12, 1-#12, 1-#12 1 1-#12, 1-#12, 1-#12 1 1-#12, 1-#12, 1-#12 1 1-#12, 1-#12, 1-#12 1 1-#12, 1-#12, 1-#12 1 1-#12, 1-#12, 1-#12 1 1-#12, 1-#12, 1-#12 1 1-#12, 1-#12, 1-#12 1 1-#12, 1-#12, 1-#12 1 2 2 2 2 2 0 VA 0 VA 4860 VA 4860 VA	P P CKT A 0 1 1 0.5 0.9 0 1 3 0.7 0.7 0 2 5 0 0.7 0 1 9 0.7 0.7 0 1 9 0.7 0.7 0 1 9 0.7 0.7 0 1 9 0.7 0.7 0 1 9 0.7 0.7 0 1 13 0.4 1.5 0.7 0 1 13 0.4 1.5 0.1 5 1 17 0.1 0.1 0.1 5 1 19 0.5 2.0 0.1 5 1 25 1.8 0.0 0.0 0 1 27 0.0 0.0 0.0 0 1 29 4 100.00% 0.00	B C 0.5 1.5 0.7 1.5 0.7 1.0 0.7 1.0 0.7 1.0 0.7 1.0 0.7 1.0 0.7 1.0 0.4 1.0 0.4 1.0 2.0 1.0 2.0 1.0 0.1 0.0 0.0 0.0 kVA 8.1 kVA 4 A 71 A MATED DEMAND 19087 VA 0 VA 4860 VA	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	DT, NEUT, GND #12, 1-#12, 1-#12 RE #10, 1-#10, 1-#10 WH #12, 1-#12, 1-#12 BL SF SF	CIRCUIT DESCR C BASEBALL CONCE C BASEBALL STORA -2 BASEBALL STORA -2 BASEBALL CONCE -1 BASEBALL PRESSI -1 BASEBALL PRESSI -1 BASEBALL HOME I -1 BASEBALL VISITOF -1 BASEBALL VISITOF -1 BASEBALL RM BB ACK LIGHT BB06 -2 ARE -2 AR	IPTION NOTES SSIONS BB01 GE BB02 SSIONS BOX BB05 DUGOUT R DUGOUT 02 DAD: 23947 VA AND: 23947 VA ENT: 66 A ENT: 66 A	СО	
NOTES: WHERE NOT LISTED, WIRE AN PANELBOARD AND PANEL: BB2 VOLTAGE: 480Y/277V,3P,4V AMPERES: 1 A NOTES CIRCUIT DESCRIPTION LTNG BASEBALL CONCESSIONS PASEBALL CONCESSIONS	ND CONDUIT SHALL BE BE N WIRING SCHI W HOT, NEUT, GND OC 1.#12, 1.#12, 1.#12 2	INIMUM PER SPECIFICATIONS. INIMUM PER SPECIFICATIONS. EDULE MAINS TYPE: MC SPD: MOUNTING: SUI P P CKT A 0 1 1 0.0 0.2 1 2 0.2	SPARE BREAKERS T	PANEL INTERRUPTIN SUP CKT P 0 CP HC 1 20 1	G RATING: <engin OCATION: STORAG PLY FROM: DT, NEUT, GND #12, 1-#12, 1-#12 LT</engin 	EER TO SPECIFY> GE BB02 CIRCUIT DESCR	ENT: 83 A		ements - Phase 1 Ducation CKY
BASEBALL CONCESSIONS 015 kVA SPACE SPARE* SPARE* SPARE* SPARE* LOAD CLASSIFICATION LTNG	1-#12, 1-#12, 1-#12 2 3-#12, 1-#12, 1-#12 2 2	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	FIZ, 1-#12, 1-#12 L1 SF SF SF SF SF SF SF SF SF TOTA	AGE DUGOUT ACE ACE ACE ARE ARE ARE ARE ARE ARE ARE ARE ARE AR	BBU9 -	RICAL DETAILS	ETICS IMPROVE FOR: Y BOARD OF EI SBURG, KENTUC
NOTES: WHERE NOT LISTED, WIRE AN	ND CONDUIT SHALL BE BE N	INIMUM PER SPECIFICATIONS.	SPARE BREAKERS T	TO BE 20A/1P.	TOTAL ESTIMAT 25 % / TOTAL ESTIMAT	ED DEMAND CURR ADDITIONAL CAPAC DTAL PANEL CURR	ENT: 1 A ENT: 1 A DITY: 0 A ENT: 1 A	ELECT	MERCER COUNTY ATHL MERCER COUNT HARROD
								M,E,&F CMTA, 2429 M Lexingt p 859.2 Structu Brown 2224 Y Lexingt p 859.5	<u>² Engineer</u> : Inc. Iembers Way ton, KY 40504 253.0892 <u>iral Engineer</u> : + Kubican, PSC oung Dr. ton, KY 40505 543.0933
								BG Project Drawn Rev'd B 1 2 3 4 5 6 7 8 COP CONST	# 22-282 No: 2203/XMBS22 By: АКР Зу: ВWR SHEET RELEASE
								EL	ECTRICAL DETAILS DATE ISSUED: APRIL 13, 2022

	PANEL: BB2					MAIN	S TYPI	E: MCE	3			PANE	L IN	TERRU	PTING RATING: <en< th=""><th>GINEER TO</th></en<>	GINEER TO
	VOLTAGE: 480Y/277V,3P,4W						SPI	D:							LOCATION: STO	RAGE BB0
	AMPERES: 1 A					MO	UNTING	S: SUR	FACE						SUPPLY FROM:	
NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	Ρ	CKT		4	1	3		C	СКТ	Р	OCP	HOT, NEUT, GND	CIR
	LTNG BASEBALL CONCESSIONS	1-#12, 1-#12, 1-#12	20	1	1	0.0	0.2					2	1	20	1-#12, 1-#12, 1-#12	LTNG
	BASEBALL CONCESSIONS	1-#12, 1-#12, 1-#12	20	1	3			0.3	0.2			4	1	20	1-#12, 1-#12, 1-#12	LTNG VISI
					5					0.0	0.0	6				SPACE
	015 kVA	3-#12, 1-#12, 1-#12	20	3	7	0.0	0.0					8				SPACE
					9			0.0	0.0			10				SPACE
	SPACE				11					0.0	0.0	12				SPACE
	SPARE*		20	1	13	0.0	0.0					14	1	20		SPARE
	SPARE*		20	1	15			0.0	0.0			16	1	20		SPARE
	SPARE*		20	1	17					0.0	0.0	18	1	20		SPARE
	SPARE*		20	1	19	0.0	0.0					20	1	20		SPARE
						0.2	kVA	0.5	kVA	0.0	kVA					
						1	A	2	Α	0	А	1				
LOAD C	LASSIFICATION	CONNECTED LO	AD	DE	MAND	FACT	OR	ESTIN	IATED	DEMA	ND				PANE	L TOTALS
LTNG		681 VA			100.	00%			681 \	/A		TOTAL CO				
															TO	TAL ESTIN
															TOT	AL CONNE
															TOTAL ESTIN	
															25	
															20	

	REVISIONS							
#	DATE	DESCRIPTION						
	1	1						

FIRST FLOOR EGRESS

	30' - 0''	MEN 102	
		30' - 0''	

SECOND FLOOR EGR

			FIRE-RESISTANT ASSEMBLY TYPE: FIRE WALL FIRE BARRIERS VERTICAL EXIT ENCLOSURE VERTICAL SHAFT, INCL. ELEVATOR RECORDS ROOM IN ADMIN AREA (PER KDE) CORRIDORS SMOKE-TIGHT CONSTRUCTION REQUIRED FOR INC INCIDENTAL USE AREA: FURNACE ROOM WHERE ANY PIECE OF EQUIPMEN ROOMS WITH BOILERS WHERE THE LARGEST PIECE OF	FIRE N/A IDENTAL USE AREAS IT IS OVER 400,000 OF EQUIPMENT IS C
			REFRIGERANT MACHINERY ROOM LABORATORIES AND VOCATIONAL SHOPS	
			OCCUPANCY CLASSIFICATION: B CO	NSTRUCTION TYPE:
			BUILDING PERIMETER, P: 63' - 11" OPI ALLOWABLE HEIGHT (FROM TABLE 504.3) 40'-0"	EN PERIMETER, F: 5
			ALLOWABLE STORIES (FROM TABLE 504.4) 2	
			ALLOWABLE AREA (FROM TABLE 506.2) At = 9,000 SF NO CALCULATION RQD. ADDITION IS	EXIST
SOCCER			OCCUPANCY CLASSIFICATION: E CO	NSTRUCTION TYPE:
BOX 200			BUILDING PERIMETER, P: 65' - 11" OPI	EN PERIMETER, F: 5
200 SF OC: 2 2A			ALLOWABLE HEIGHT (FROM TABLE 504.3) 40'-0''	
			ALLOWABLE STOKLES (FROM TABLE 504.4) 1 ALLOWABLE AREA	
			(FROM TABLE 506.2) $At = 9,500 SF$	NE
RESS		B 2G1.0	BELOW ALLOWABLE SF PER TABLE	
			 ADDITION DOES NOT CHANGE EXISTING O COMPONENTS. ALL NEW OCCUPANTS IN TH ENTERING INTO THE EXISTING HIGH SCHOO ALL ROOMS WITHIN THE ADDITION HAVE LE ROOM MEETS THE REQUIREMENT FOR 1 EXIT 	CCUPANCY TYPE, (HE ADDITION EGRE JL. ESS THAT 50 PROPO T AND MINIMUM C
			EGRESS CON	APONENT
			COMP # COMPONENT REQUIRED # C	DF REQUIRE
			TYPE OCCUPANT OCCUF 2A DOOR .2" 2 BUILDING A FIRST FLOOP: 2 OCCUPANTS + 2 OCCUPANTS 2 OCCUPANTS 2 OCCUPANTS	'ANTS EGRESS WI
			OCCUPANTS 1A DOOR .2" 2	.4"
22'-1" CONCESSIONS 100 101 101 101 101 101 101 10	30' - 0"			
			EGRESS PLA	N - SYMBC
			ROOM NAME ROOM NUMBER GROSS/NET S.F. # OCCUPANTS & CCCUPANCY TYPE K K K K K K K K K K K K K	W/ DESIGN OCCL AS OF FIXED FURNIT L ROOM SQUARE I OCCUPANTS. <u>I TYPES</u> ION (NSF) S (GSF) E (GSF) NON-CONCURREN
			COMPONENT SEE TABLE BELOW FLOOR	MPONENT TAG
		 	# TOTAL UNPP	H ROTECTED EXIT ACC METER FRONTAGE
		A		TON LINE BETWEEN
		2G1.0	FIRE-RESISTANCE	ADDITIONAL INFC
			SEE AU.I SHEEI FOR ADDIIIONAL HRE-RE	JISTAINCE SYMBOL

	COD	es and	APPLIC	ABLE STA	$\langle V$			
2018 KENT	UCKY BUILDING	CODE (BASED C	N THE 2015 IN	TERNATIONAL BUI	LDI FS			
KENTUCKY 2012 INTER	' standards oi Rnational fire	SAFETY, LATEST	EDITION R NEW CONST	RUCTION AS PER K	(BC			
2012 INTER 2012 INTER	RNATIONAL FIRE	CODE FOR POR RGY CONSERVA	TABLE EXTINGL	DR USE WITH THE K	900 (EN			
2015 INTER STATE BOII	2015 INTERNATIONAL MECHANICAL CODE STATE BOILER CODES & REGULATIONS, LATEST EDITION							
ASME BOI KENTUCKY	ASME BOILER, PRESSURE VESSEL, AND PRESSURE PIPING CODES, LATEST EDITIC KENTUCKY PLUMBING CODE, LATEST EDITION							
2012 NFPA 2010 NFPA	2012 NFPA 01 - FIRE PREVENTION CODE 2010 NFPA 13 - SPRINKLER SYSTEMS							
2010 NFPA 2009 NFPA	a 14 - Standpipe a 54 - National	, HOSE SYSTEMS FUEL GAS						
2017 NFPA 2010 NFPA	70 - NATIONAL 72 - FIRE ALAR	ELECTRICAL CO	DE					
AMERICA	BORATORIES (UI N STANDARDS A) STANDARDS FC ND TESTING MET	HODS (ASTM)					
DEPARTMI	ENT OF EDUCATI	OGRAMMING A ON (KDE)			LA			
	FII	RE RESIST	ANCE I	REQUIREN	Λ			
FIRE RESIS	TANCE PER COM	ISTRUCTION TYPE	E: 2B					
BUILDING STRUCTUR	ELEMENT: AL FRAME:			FIRE-RESI (IST <i>A</i>)			
bearing bearing	WALLS, EXTERIO WALLS, INTERIOI	R: ?:		(())			
NONBEAR NONBEAR	RING WALLS & PA RING WALLS & PA	ARTITIONS, EXTER ARTITIONS, INTER	IOR: IOR:	()			
FLOOR CO ROOF CO	DNSTRUCTION, INNSTRUCTION, IN	NCL. SUPPORTIN ICL. SUPPORTINC	g beams & JC G beams & JOI	STS: C)			
ADDITION	IAL FIRE-RESISTA	NT CONSTRUCTIO	ON					
FIRE-RESIS	tant assembly	TYPE:		FIRE-RESI	IST <i>A</i> 2			
FIRE BARR	IERS EXIT ENCLOSUR	E		1	1			
VERTICAL RECORDS	Shaft, Incl. El Room in Adm	EVATOR IN AREA (PER KD	E)	1	1 2			
CORRIDO	PRS			N/A DUE	TC			
SMOKE-TI	GHT CONSTRUC	tion required	FOR INCIDENT.	AL USE AREAS AS I	FO			
FURNACE	AL USE AREA: ROOM WHERE A	ANY PIECE OF EC	QUIPMENT IS O	VER 400,000 BTU/	HR			
	ANT MACHINER'	Y ROOM			15			
*NOTE: TH	IE ABOVE REQU	IRE ONLY SMOKE	-TIGHT CONST	RUCTION PER KBC	CD			
	HFI	GHT ANI) ARFA		A			
BUILDING:			NS AND PRESS	BOX				
OCCUPAN	ICY CLASSIFICA	tion: B	CONSTRU	ICTION TYPE: 5B				
BUILDING	PERIMETER, P: 6	3' - 11"	OPEN PER	RIMETER, F: 51' - 1	1"			
	ALLOWABLE HEIGHT AC (FROM TABLE 504.3) 40'-0''							
	ALLOWABLE STORIES ACT (FROM TABLE 504.4) 2							
	ALLOWA (FROM TA	BLE AREA BLE 506 2)		A	LLC			
	At = 9,000 SF			existing	FIR			
	NO CALCULATI	ON RQD. ADDIT	ONIS	EXISTING	SEG			
		ABLE SF PER TABL	.E					
		tion: e	CONSTRI					
BUILDING	PERIMETER, P: 6	5' - 11"	OPEN PER	RIMETER, F: 53' - 1	1"			
	ALLOWAE	LE HEIGHT			AC			
	(FROM TA 40	BLE 504.3) '-0''						
	(FROM TA	BLE 504.4)						
	ALLOWA	BLE AREA		A	LLC			
	(FROM TA At = 9.500 SF	BLE 506.2)		NEW	26			
	NO CALCULATI	ON RQD. ADDIT	ON IS					
	BELOW ALLOW	ABLE SF PER TABL	.E					
I. A	DITION DOES N	OT CHANGE EXI	STING OCCUP	ANCY TYPE, OCC				
2. AL RC	ITERING INTO TH L ROOMS WITHI DOM MEETS THE	E EXISTING HIGH N THE ADDITION REQUIREMENT F	SCHOOL. HAVE LESS TH, OR 1 EXIT AND	AT 50 PROPOSED (MINIMUM CLEAR				
		EGRESS	COMP	ONENT TA	٩			
BUILDING	A-SECOND FLO	OR: 2 OCCUPAN	1TS	-				
COMP. #	COMPONENT	REQUIRED WIDTH PER	# OF	REQUIRED				
	IYPE	OCCUPANT	OCCUPANTS	EGRESS WIDTH	E			
		.2"	2					
OCCUPAN	ATS		2 UCCUPAN		<u>т</u>			
1A	DOOR	.2"	2	.4"				

WITH 201 KAR 18:150

DESIGN CRITERIA 1. Building Code: 2018 Kentucky Building Code and ASCE 7-10 1.1 Building Risk Category: III 2. Design Loads 2.1 Uniform Floor Live Loads (reduced per Building Code, UNO) General Ground Floor Areas 100 psf 2.2 Roof Loads 2.2.1 Uniform Roof Live Load 20 psf (reduced per Bldg. Code) 2.2.2 Snow Loads: Ground Snow = 15 psf (with drift loads per Code) Terrain Category = C Snow Exposure Factor, Ce = 1.0Snow Load Importance Factor, I = 1.1Slope Factor, Cs = 1.0Thermal Factor: Heated Spaces, Ct = 1.0Unheated Spaces, Ct = 1.2Flat-roof Snow Load: Heated Spaces, Pf = 16.6 psf Unheated Spaces. Pf = 18.9 psf2.3 Wind Loads Basic Wind Speed V(ult)=120 mph; V(asd)= 93 mph Wind Exposure = CInternal Pressure Coefficient = +/-0.18 (Enclosed Building) Directionality Factor, Kd = 0.852.4 Earthquake Loads Seismic Importance Factor, I = 1.25DAMapped Spectral Response Accelerations, Ss and S1 = 0.182 and 0.098Site Class: C Spectral Response Coefficients, Sds and Sd1 = 0.16 and 0.104Seismic Design Category: B Basic Seismic-Force-Resisting System: Ordinary Reinforced Masonry Shearwalls **GENERAL** 1. Reference to standards or specifications of technical societies, organizations, or associations means the standard or specification referenced by the governing Building Code shown on the Drawings, unless specifically noted otherwise. 2. Material, workmanship, and design shall conform to the referenced Building Code. 3. For dimensions not shown in the Structural Drawings, see the Architectural Drawings. Contractor responsibilities include, but are not limited to, the following: 4.1 Coordinate the Structural Documents with the Architectural, Mechanical, Electrical Plumbing, and Civil Documents. Architect/Structural Engineer shall be notified of discrepancy or omission. 4.2 Coordinate Structural Documents with Architectural and MPE Documents for location a quantity of miscellaneous framing for items such as roof drains, suspended or supported mechanical units, window washing davits, etc. Refer to Architectural and MPE Documents for additional miscellaneous structural elements that may not appear the Structural Documents. 4.3 Equipment/Framing Verification 4.3.1 Mechanical Equipment: Submit actual weights of equipment to be used for revi at least 3 weeks prior to fabrication and construction. Coordinate opening sizes and locations with Mechanical Contractor. 4.3.2 Miscellaneous Framing: Verify framing shown on the Structural Drawings for mechanical equipment, Owner-furnished items, partitions, etc. is consistent with the requirements of such items. 4.4 The structure is stable only in its completed form. Temporary supports required for stability during all intermediate stages of construction shall be designed, furnished, and installed by the Contractor. 4.5 Contractor has sole responsibility for jobsite safety and complying with all health and safety precautions as required by any regulatory agency. In performing construction observation visits to the jobsite, the Structural Engineer will have no control over, nor responsibility for, the Contractor's means, methods, sequences, techniques, or Procedures in performing the work. 4.6 Contractor is responsible for locating concrete reinforcement prior to installation of post-installed anchors, through bolts, or other post-installed items in concrete Existing reinforcement including post-tensioning tendons shall not be cut or otherwise damaged while installing post-installed anchors. 4.7 Contractor shall visit the project site prior to placing a bid to perform any structural repair work in order to observe the existing conditions of the structure 4.8 Contractor shall coordinate all structural repair work with all trades and existing conditions and notify the structural engineer of any conflicts before starting related work. Related work can start once an approved solution has been issued. 5. Existing and Unforeseen Conditions 5.1 Contractor shall field verify all existing conditions, elevations, and site conditions prior to construction and fabrication. Contractor shall immediately noti Structural Engineer of any existing conditions that are in conflict with the Structural Documents. 5.2 Shop drawing submittals shall be based on field verified dimensions and conditions only. Contractor shall clearly show actual field dimensions on shop drawings.

STRUCTURAL NOTES

THE STRUCTURAL NOTES DEFINE GENERAL DESIGN AND MATERIAL REQUIREMENTS AND ARE INTENDED TO SUPPLEMENT, BUT NOT REPLACE, THE PROJECT SPECIFICATIONS

SUBMITTALS

- 1. Shop Drawings and Submittals
 - 1.1 Reproduction of Structural Drawings for shop drawings is not permitted.
 - 1.2 Electronic drawing files will not be provided to the Contractor.
 - 1.3 Electronic drawing files will not be provided to the Contractor without a signed release form agreeing to indemnify, defend, and hold harmless SDG against all claims, liabilities, costs, and expenses out of any use, misuse, reuse, misrepresentation, or modification of the files.
 - 1.4 Review of shop drawings will be for conformance with the Construction Documents regarding arrangement and sizes of members and the Contractor's interpretation of the design loads, if applicable, and Construction Document details. Such review shall not relieve the Contractor of the full responsibility to comply with the Construction Documents.
- 2. Submittals
 - 2.1 The Structural Quality Assurance Plan and Specifications identify the required submittals. Prior to (or with) the first submittal, Contractor shall submit a list of all required submittals for Engineer's review.
- 3. Deferred Submittals
 - 3.1 Deferred Submittals include those portions of the project that are furnished by the Contractor and designed by someone other than the Engineer of Record and are submitted at the time of the application. Deferred Submittals shall be submitted to the Building Official prior to fabrication and installation.
 - 3.2 Submittal documents for Deferred Submittals:
 - 3.2.1 Shall be included in the Contractor's scope of services and shall be sealed by an Engineer licensed in the project state. Design of Deferred Submittals shall be in accordance with the governing Building Code indicated above.
 - 3.2.2 Shall be submitted to the registered design professional in responsible charge who shall review them and forward to the Building Official with a notation indicating the deferred submittal documents have been reviewed and that they have been found in general conformance with the design of the building. Deferred submittal items shall not be installed until the design and submittal documents have been approved by the Building Official.
- 3.3 The following shall be considered Deferred Submittals: Shop-Fabricated Wood Trusses

	FOUN	IDATION
, anv		Geotechnical Report: prepared by Consulting Services, Inc. Report No. LX200140, Dated February 5, 2021
and id		1.1 It is recommended that the Contractor become familiar with the subsurface condition that will be encountered and obtain a copy of the geotechnical report and any supplemental reports. The report(s) may be included as a reference document within the construction documents. Otherwise the Contractor should contact the Owner to obtain a copy of the report(s).
	2.	Building Pad Preparation
		2.1 Strip vegetation and topsoil.
/iew J		2.2 Proofroll building areas with a minimum of two complete coverages of a loaded dump-truck or scraper in each of two perpendicular directions. Replace soft areas with compacted structural fill.
:	3.	Soil Bearing Capacity: Isolated Footings 1500 psf Continuous Footings 1500 psf
or		3.1 Footings shall not bear on rock. Remove rock, if any, for a depth of 2 feet below footing bearing elevation and immediately backfilled the same day with compacted soil to bottom of footing elevation.
h	DETA	
no	KEIN	
	1.	Reinforcing Bars: ASTM A615, Grade 60
n		1.1 Reinforcing bars are not to be welded.
ce.		1.2 Reinforcing Bars to be welded: ASTM A706, Grade 60. Welding shall conform to AWS D1.4. Filler metals used to weld A706 reinforcing steel shall be a minimum tensile strength of 80 ksi
	2.	Welded Wire Reinforcement (WWR): ASTM A1064, 8-in minimum side and end laps
e.	3.	Reinforcement Placement (UNO)
ig		3.1 Concrete Reinforcement Clear Cover Below Grade: Unformed 3-in Formed 2-in
-ifv		3.2 Masonry reinforcing steel: Place in the center of CMU cells, unless otherwise noted in Drawings.
y	4.	Reinforcement Splices
5		4.1 Reinforcement marked "Continuous" can be spliced at locations determined by Contractor. All other reinforcement shall be spliced only at locations shown or noted, unless approved in writing by Structural Engineer.

4.2 Splice Lengths (UNO) Concrete Reinforcement: Class B Tension Lap Masonry Reinforcement: See CMU Lap Splice Tables in Drawings

CAST-IN-PLACE CONCRETE

1. Concrete Properties

1.1 Normal Weight Structural Concrete

		28-Day, f'c w/cm Ratio Entrained Air (min) (max.)
, r		Footings (Isolated/Continuous) 3,000 psi None Required Foundation Walls, Pedestals 3,000 psi None Required Slabs on Ground 3,500 psi 0.48 None Required
-		Interior 3,000 psi None Required
e t		All Other Concrete 5,000 psi 0.40 5.0 +/- 1.5%
		Note: All concrete shall be assigned the exposure classes FO, SO, WO, and CO; except concrete in Aggressive Environment shall be assigned the exposure classes F3, S3, W1, and C2 (see ACI 318).
f	2.	Construction Joint Locations: No horizontal construction joints are permitted except as shown on the Structural Drawings. Obtain written consent for additional joints.
	3.	Pipes or ducts shall not exceed one-third the slab or wall thickness unless specifically detailed. See mechanical and electrical drawings for location of sleeves, accessories, etc.
		3.1 Conduit shall not be placed within the slab on grade. Conduit shall be installed below the slab on grade within the granular subbase.
У	4.	Special Finishes: Refer to Architectural Drawings for molds, grooves, ornaments, clips or grounds required to be encased in concrete and for location of floor finishes and slab depressions.
	5.	Defect Repair: Honey-combing, spalls, cracks, etc. shall be repaired. Extent of defective area to be determined by the Structural Engineer.
e	6.	Curing
.1		6.1 Begin curing procedures immediately following commencement of the finishing operation.
		6.2 Concrete shall be moist cured in accordance with ACI 308. See Specification for additional information.
		6.3 All concrete slabs that are to have exposed stained or polished concrete finish shal be wet cured a minimum of 7 days in strict accordance with ACI 301. The acceptable methods of wet curing are ponding, continuous fogging, continuous sprinkling; or application of mats or fabric kept continuously wet.
	NON	SHRINK GROUTING
	1.	Non-shrink grout under steel base plates shall be non-metallic with minimum compressive strength of 5000 psi at 28 days.
	2.	Non-shrink grout used for patching, repair, and other specific applications shall be submitted for review and approval by engineer.
	<u>CON</u>	RETE MASONRY
	1.	Specified Compressive Strength, f'm = 2,000 psi Minimum Net Area Compressive Strength of Masonry Unit: 2,000 psi (ASTM C90 w/ Type M or S Mortar)
	2.	Mortar: Walls below grade Type M Bearing walls Type M or S Partition walls Type N
	3.	Coarse Grout: 2,500 psi min. compressive strength conforming to ASTM C476.
		3.1 Grout solid bond beams, reinforced CMU cores, and CMU cores and wall cavities below grade.
		3.2 Masonry webs on each side of grouted cells shall be fully mortared. Exterior single wythe CMU walls shall have head joints fully mortared.
	4.	Horizontal Joint Reinforcement, UNO: Two (2) No. 9 gage longitudinal wires at 16-in

vertically. Lap wire 6 inches minimum. Provide accessories for corners, intersections, etc. Use ladder type for walls with vertical reinforcing. 5. Provide open bottom beam block units with 3-in deep minimum web openings at horizontal

reinforcement locations not located over an opening. A minimum clear space of one bar diameter shall be provided between the reinforcing bars and the face of masonry units.

6. CMU has been designed assuming "running bond" placement. Do not use "stack bond" unless approved by Structural Engineer.

7. Submit written construction procedures prior to the start of masonry construction.

	STRUCTURAL INDEX							
2S0.1	STRUCTURAL NOTES							
2S0.2	STRUCTURAL NOTES CONTINUED							
2S0.3	STRUCTURAL QUALITY ASSURANCE PLAN							
2S1.1	FOUNDATION AND ROOF FRAMING PLANS							
2S2.1	FOUNDATION SECTIONS AND DETAILS							
2S2.2	FOUNDATION SECTIONS AND DETAILS							
2S3.1	MASONRY SECTIONS AND DETAILS							
2S4.1	FRAMING SECTIONS AND DETAILS							

STRUCTURAL STEEL

- 1. Steel Shapes
 - 1.1 W-Shapes: ASTM A992 (Grade 50)
 - 1.2 Angles, Channels, Plates, UNO: ASTM A36
 - 1.3 Square/Rectangular/Round Hollow Structural Sections (HSS): ASTM A500, Grade B
 - 1.4 Pipe Structural Sections: ASTM A53, Grade B
- 2. Anchor Rods, Bolts, and Studs
 - 2.1 Anchor Rods: ASTM F1554, Grade 36. Headed Rods or threaded rods with plate washer and heavy hex nut.
 - 2.2 Bolts: 3/4-in Diameter A325 minimum. All connections may be bearing type, UNO. Design bearing type connections for load values with threads included in the shear plane. Submit proposed bolt tightening procedure for review.
 - 2.3 Headed Studs: ASTM A108. See Details for Diameter, Length and Spacing. Length given is in-place length after burn-off.
- 3. Structural steel shall be fabricated and erected according to the "Specification for Structural Steel Buildings" referenced in the applicable Building Code.
- 4. Connections shall be detailed based on the design information provided in the Structural Documents.
 - 4.1 Standard Shear Connections: Detail as bolted or welded double-angle, single-plate, single-angle, or tee connections in accordance with the connection tables in the "Manual of Steel Construction" referenced in the applicable Building Code.
 - 4.1.1 Shear connections not defined in the AISC Manual shall be designed by an Engineer licensed in the project state. This design service shall be included in the Contractor's scope of services. Shop drawings of such connections shall be sealed by the Engineer.
 - 4.2 Welded Connections: Prequalified welded joints in accordance with AISC and the Structural Welding Code of the American Welding Society; "Non-prequalified joints" shall be qualified prior to fabrication.
 - 4.3 Factored Design Forces/Reactions: As shown on the Structural Drawings or, if not shown, the factored design reaction shall be half of the "Maximum Total Uniform Load (LRFD)" tabulated in the "Manual of Steel Construction" referenced in the applicable Building Code.
 - 4.4 Steel connections not specifically detailed in the Structural Drawings shall be designed by the Contractor. This design service shall be included in the Contractor's scope of services. Shop drawings of such connections shall be sealed by an Engineer licensed in the project state.
- 5. Shop Drawings: Submittal shall adequately depict structural members and connections.
- 6. Welders shall be qualified for the work performed in accordance with AWS D1.1. Welder qualifications shall be certified by the local building authority and verified by the Contractor and the Special Inspector.

STRUCTURAL NOTES CONTINUED

POST-INSTALLED ANCHORS

- 1. Post-installed anchors shall only be installed where indicated on the structural drawings, unless approved by engineer of record.
- 2. The below products are the design basis for this project. Product diameter and embedment shall be as shown in the details. Install products IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII). Refer to the project building code and/or evaluation report for special inspections and proof load requirements. Substitution requests for products other than those listed below may be submitted by the contractor to the Engineer-of-Record (EOR)for review. Substitutions will only be considered for products having a research report recognizing the product for the appropriate application under the project building code. Substitution requests shall include calculations that demonstrate the substituted product is capable of achieving the equivalent performance values of the design basis product.
- 3. For Anchoring into Concrete
 - 3.1 Expansion Anchors: Hilti Kwik Bolt TZ (ICC-ES ESR-1917), Simpson Strong-Bolt 2 (ICC-ES ESR-3037), DeWalt/Powers Power-Stud+ SD1 (ICC-ES ESR-2818), or DeWalt/Powers Power-Stud+ SD2 (ICC-ES ESR-2502). Minimum embedment = 6 times anchor diameter, UNO.
 - 3.2 Screw Anchors: Simpson Titen-HD (Concrete: ICC-ES ESR-2713; Grouted Masonry: ICC-ES ESR-1056) or DeWalt Screw Bolt+ (ICC-ES ESR-3889), Hilti Kwik HUS-EZ (ICC-ES ESR-3027). Minimum Embedment = 6 times anchor diameter, UNO.
 - 3.3 Adhesive Anchors
 - 3.3.1 Adhesive anchors shall be installed in concrete having a minimum age of 21 days at time of anchor installation.
 - 3.3.2 Adhesive anchors identified in the drawings as installed in a horizontal or upwardly inclined orientation to resist sustained tensile loads shall be installed by certified installers.
 - 3.3.3 All-thread steel rods conforming ASTM A36 or bolts conforming to ASTM A307, Grade A or, both zinc plated in accordance with ASTM B633 or reinforcing bars conforming to ASTM A615, Grade 60.
 - 3.3.4 All-thread steel rods conforming ASTM A36 or bolts conforming to ASTM A307, Grade A or, both zinc plated in accordance with ASTM B633 or reinforcing bars conforming to ASTM A615, Grade 60.
 - 3.3.5 Adhesive for rebar and anchors shall have been tested in accordance with ACI 355.4 and ICC-ES AC308 for cracked concrete and seismic applications. Design bond strength has been based on CRACKED CONCRETE, ACI 355.4 temperature category B, and installations into dry holes drilled using a hammer drill into concrete that has cured for at least 21 days. Adhesive anchors shall be installed by a certified adhesive anchor installer PER ACI 318 17.8.2.2 where INDICATED on the contract documents. Installations requiring certified installers shall be inspected per ACI 318 17.8.2.4.
 - 3.3.6 Adhesive conforming to Simpson AT-XP (IAPMO-UES ER-263), Simpson SET-XP (ICC-ES ESR-2508), DeWalt/Powers Pure110+ (ICC-ES ESR-3298), DeWalt/Powers DeWalt AC200+ Adhesive (ICC-ES ESR-4027), Hilti HIT-HY 200 Safe Set Fast Cure Adhesive (ICC-ES ESR-3187), Hilti HIT-RE 500 V3 SAFE Set Adhesive (ICC-ES ESR-3814). Minimum Embedment = 12 times anchor diameter. UNO.
 - 4. For Anchorage into Solid Grouted Concrete Masonry
 - 4.1 Expansion Anchors: Hilti Kwik Bolt 3 (ICC-ES ESR-1385), Simpson Strong-Bolt 2 (IAPMO-UES ER-240), Simpson Wedge-All (ICC-ES ESR-1396) or DeWalt/Powers Power-Stud+ SD1 (ICC-ES ESR-2966). Minimum embedment = 6 times anchor diameter, UNO.
 - 4.2 Screw Anchors: Simpson Titen-HD (ICC-ES ESR-1056) or Powers Wedge-Bolt+ (ICC-ES ESR-1678), Hilti Kwik HUS-EZ (ICC-ES ESR-3056). Minimum Embedment = 6 times anchor diameter. UNO.
 - 4.3 Adhesive Anchors: Adhesive conforming to Simpson Set-XP (IAPMO-UES ER-281), Simpson SET-XP (ICC-ES ESR-265), DeWalt/Powers AC100+ Gold (ICC-ES ESR-3200), Hilti HIT-HY 70 Fast Cure Adhesive (ICC-ES ESR-2682). Minimum Embedment = 6 times anchor diameter. UNO.
 - 5. Contractor shall arrange for an anchor manufacturer's representative to provide onsite installation training for all of their anchoring products specified. The structural Engineer of record must receive documented confirmation that all of the contractor's personnel who install anchors are trained prior to the commencement of anchor installation.

WOOD

- 1. Structural framing plans depict the primary structural framing system. Contractor shall provide secondary and miscellaneous framing as required to complete the project (see architectural drawings).
- 2. Dressed Seasoned Lumber: S4S, 19% maximum moisture content at time of dressing.
 - 2.1 Lintels, Floor Joists and Beams:
 - Douglas Fir Larch, No. 2 grade Southern Pine, No. 2 grade
 - 2.2 Wood in Contact with Concrete or Masonry or Exposed to Weather: Foundation grade pressure-treated.
 - Use galvanized nails in pressure-treated wood.
- 3. Structural Panels
 - 3.1 Floor Panels: Tongue-and-groove APA rated Sturd-I-Floor (plywood or OSB).
 - 3.1.1 Panels shall be have a Span Rating of 24 and Exposure 1.
 - 3.1.2 Panels shall be placed with the "Strength Axis" perpendicular to the supports. End joints shall be staggered.
 - 3.1.3 Floor panels shall be both glued and nailed.
 - 3.1.4 Panels shall be nailed with 10d (0.148 dia.) at a maximum of 12 inches at both panel edge supports and at intermediate supports unless noted otherwise. Nailing shall be completed before glue sets.
 - 3.1.5 Panels shall have glue applied at supports, end joints and tongue and groove joints. Adhesives shall conform to APA Specification AFG-01 or ASTM D3498, and applied in accordance with the adhesive manufacturer's recommendations. For OSB panels with sealed surfaces, use only solvent-based glues in accordance with panel manufacturer's recommendations.
 - 3.2 Roof panels: APA rated sheathing (plywood or OSB).
 - 3.2.1 Panels shall be have a Span Rating of 40/20 and Exposure 1.
 - 3.2.2 Panels shall be placed with the long direction perpendicular to the supports and shall be a minimum of 24-inches wide and continuous over at least 2 supports.
 - 3.2.3 Roof panels shall be both glued (exterior glue) and nailed.
 - 3.2.4 Long panel edges shall be supported with Edge Clips; one located midway between each support. There shall be a 1/8-inch gap at panel edges and ends.
 - 3.2.5 OSB panels shall be installed with the textured side up.
- 4. Connections for Structural Timber: Galvanized strong-tie connectors by the Simpson Company or approved equal.

SHOP-FABRICATED WOOD TRUSSES

- Design of wood trusses and their connections shall be the sole responsibility of the Contractor. Design and shop drawing submittals shall comply with the Specifications. Shop drawings shall be sealed by an Engineer licensed in the Project state.
- 2. Wood trusses shall be designed for the superimposed loads given in the Structural Drawings plus any additional superimposed dead loads due to overbuilt wood framing constructed above trusses.
- . Wood trusses shall be designed for the following superimposed loads: See Sheet S0.4
- 3.1 Superimposed dead loads due to overbuilt wood framing shall be added to the loads given above.

GENERAL

for this project.

Refer to other portions of the Construction Documents for Special Inspections required of architectural, mechanical, electrical, or other building components.

Special Inspector shall maintain records of inspections in accordance with Chapter 17 of the Building Code and shall distribute these records to the Building Official, Architect, and Structural Engineer on a weekly basis, unless noted otherwise below. Reports shall indicate that work inspected/tested was done in conformance to the Construction Documents. Discrepancies shall be brought to the immediate attention of the Contractor for correction. If the discrepancies are not corrected, they shall be brought to the attention of the Building Official, Architect, and Structural Engineer prior to completion of that phase of the work.

At the conclusion of the project, the Special Inspector shall submit a final report documenting required special inspections and correction of any discrepancies noted in the inspections.

within this Statement of Special Inspections.

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c. See Steel section for additional info	ormation for inspection	on tasks.
SOILS	INSPECTION FREQUENCY	REFERENCED STANDARD
Verify materials below shallow foundations are adequate	P	
Verify excavations are extended to proper depth and have reached proper material.	Р	Inspection is required after excavation is complete and prior to placement of structural fills.
Perform classification and testing of compacted fill materials.	Р	Perform laboratory tests of field samples provided by contractor for verification of in place densities.
Verify use of proper materials, densities, and lift thickness during placement and compaction of compacted fill.	С	Refer to specification for lift thicknesses and compaction.
a. As a minimum, perform one test per lift for every 2500 square feet of fill placed.		
and verify that the site has been prepared properly (e.g. proofrolling, etc.).	F	
Determine quantities of material removed and quantities of material placed where Unit Prices are involved.	Р	
	INSPECTION	REFERENCED STANDARD
CONCRETE CONSTRUCTION	FREQUENCY	
Inspection of reinforcing steel placement and installation. Grade, size, quantity, quality, location, spacing, clearances.	Р	ACI 318 Ch. 20, 25.2, 25.3, 26.6.1-26.6.3 / IBC 1908.4
Inspection of anchors cast in concrete. Verify compliance of the following: diameter, grade, type, length, number, placement, and embedment depth.	С	ACI 318 17.8.2 / AISC 360 N5.7
Inspection of post-installed mechanical anchors installed in hardened concrete members: verify anchor type, anchor dimensions, hole diameter and cleaning procedures, anchor spacing, edge distances, concrete minimum thickness, anchor embedment and tightening torque.	C	ACI 318 17.8.2 Use of post installed anchors must be approved by Structural Engineer
Inspection of post-installed adhesive anchors and reinforcing steel installed in hardened concrete members: Verify adhesive type, anchor rod dimensions, hole diameter and cleaning procedures, anchor spacing, edge distances, concrete minimum thickness, anchor embedment and tightening torque.	С	ACI 318 17.8.2.4 Use of post installed anchors must be approved by Structural Engineer
 Verify use of required design mix. Sampling fresh concrete from concrete discharge. Mold one set of specimens for compressive strength testing for each 150 cubic yards or each 5,000 square feet of slab or wall surface area for each mix design placed in any one day. No fewer than five tests for a given class of concrete for the entire project. a. Mold (5) 4x8-inch compressive strength cylinders, break and report (1) at 7-days, (3) at 28-days, or mold (4) 6x12-inch compressive strength cylinders, break and report (1) at 7-days, (2) at 28-days. b. Remaining specimens(s) shall be broken as directed by the Structural Engineer if compressive strengths do not appear adequate. c. For each set molded, record: 	P	ACI 318 Ch. 19, 26.4.3 26.4.4 / IBC 1904.1, 1904.2, 1908.2, 1908.3 ACI 318 26.5, 26.12 / IBC 1908.10 ASTM C172, ASTM C31
 i. Slump ii. Air Content iii. Unit Weight iv. Temperature, ambient and concrete v. Batch and discharge times vi. Location and placement vii. Any pertinent information, such as addition of water, addition of admixtures, etc. d. Report in writing on the same day as tests are performed. Reports of compressive strength tests shall contain the project identification name and number, date of concrete placement, name of concrete testing agency, concrete design compressive strength, location of concrete placement in structure, concrete mix proportions and materials, compressive breaking strength and type of break. e. Verify compliance with construction documents. 		
Inspection of concrete conveying and placement for	С	ACI 318 26.5 / IBC 1908.6-1908.8
proper application techniques. Inspection for maintenance of specified curing	P	ACI 318 26.5.3-26.5.5 / IBC 1908.9
temperature and techniques. Inspection of formwork for shape, location, and	P	ACI 318 26.11.1.2(b)
dimensions of the concrete member being formed.	D	ΔCI 117_10
concrete slab placements in accordance with ASTM E1155. See specifications	Г	AGI 117-10

١.	Inspection of rein installation. Gra spacing, clearan
2.	Inspection of and compliance of the length, number,
3.	Inspection of positive installed in harded type, anchor dim procedures, anc minimum thickne torque.
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STRUCTURAL QUALITY ASSURANCE PLAN

This Structural Quality Assurance Plan includes:

1. The Statement of Special Inspections which defines the scope of testing and inspection that is required

2. The responsibilities of the Contractor.

Special Inspector will be hired by the Owner.

STATEMENT OF SPECIAL INSPECTIONS

Special Inspector shall perform the following tests and inspections of all structural elements included

1. The following tables contain material, components and work that require special inspection or testing: a. Inspection Frequency, C – Continuous special inspection. Special inspection by the special inspector who present when and where the work to be inspected is being performed.

spection Frequency, P – Periodic special inspection. Special inspection by the special inspector who is ermittently present where the work to be inspected has been or is being performed. For structural steel, serve the items on a random basis.

	CONCRETE MASONRY	INSPECTION FREQUENCY	REFERENCED STANDARD
1.	Prior to construction, verification of compliance of submittals.	Required	TMS 602 - Art. 1.4 B
2.	Prior to construction, verification of f 'm	Required	TMS 602 - Art. 1.4 B
3.	During construction, verification of Slump flow and Visual Stability Index (VSI) when self-consolidating grout is delivered to the project site.	Required	TMS 602 - Art. 1.5 & 1.6.3
4.	As masonry construction begins, verify that the following are in compliance:		
	a. Proportions of site-prepared mortar	Р	TMS 602 - Art. 2.1, 2.6 A, & 2.6 C
	b. Grade, type and size of reinforcement, connectors, and anchor bolts	Р	TMS 602 - Art. 3.4
	c. Sample panel construction	Р	TMS 602 - Art. 1.6 D
5.	Prior to grouting, verify that the following are in compliance:		
	a. Grout space	Р	TMS 602 - Art. 3.2 D & 3.2 F
	b. Placement of reinforcement, connectors, and anchor bolts	Р	TMS 602 - Art. 3.2 E & 3.4 TMS 402 Sec. 6.1, 6.3.1, 6.3.6, & 6.3.7
	c. Proportions of site-prepared grout	Р	TMS 602 - Art. 2.6 B
6.	Verify compliance of the following during construction:		
	 Materials and procedures with the approved submittals 	Р	TMS 602 - Art. 1.5
	 Placement of masonry units and mortar joint construction 	Р	TMS 602 - Art. 3.3 B
	c. Size and location of structural members	Р	TMS 602 - Art. 3.3 F
	 Type, size, and location of anchors, including other details of anchorage of masonry to structural members, frames, or other construction 	Р	TMS 402 - Sec. 1.2.1(e), 6.2.1, & 6.3.1
	 Preparation, construction, and protection of masonry during cold weather (temperature below 40 deg. F) or hot weather (temperature above 90 deg. F) 	Р	TMS 602 - Art. 1.8 C & 1.8 D
	f. Placement of grout is in compliance	С	TMS 602 - Art. 3.5
7.	Observe preparation of grout specimens, mortar specimens, and/or prisms	Р	TMS 602 - Art. 1.4 B.2.a.3, 1.4 B.2.b.3, 1.4B.2.c.3, 1.4 B.3, & 1.4 B.4

WOOD	INS FR
Verify wood products by official grade mark. If specified, verify fire-retardant-treated and preservative-treated wood is labeled.	
Verify that general arrangement and installation of wood members is in accordance with the approved truss shop drawings and the Construction Documents.	
For SFR and MWFR Systems, perform the following:	

a. Inspect during field gluing operations.

- b. Verify nailing, bolting, anchoring, and other
- fastening of components, including wood shearwalls, wood diaphragms, drag struts, braces, shear panels, and hold-downs.

CONTRACTOR RESPONSIBILITIES

- 1. Contractor shall pay for any additional structural testing/inspection required for work or materials not complying with the Construction Documents due to negligence or nonconformance and shall pay for any additional structural testing/inspection required for his convenience.
- 2. Contractor is responsible to ensure that the Special Inspector is on site as required to perform all tasks required by Statement of Special Inspection. Any work that requires special inspection and is performed without the Special Inspector
- being present is subject to being demolished and reconstructed. 3. Contractor has the following responsibilities to the Special Inspector:
- prior to inspection of work contained therein). b. Notify Special Inspector sufficiently in advance of operations to allow assignment of personnel and scheduling of tests.
- c. Cooperate with Special Inspector and provide access to work.
- d. Provide samples of materials to be tested in required quantities.
- f. Provide labor to assist Special Inspector in performing tests/inspections.
- 4. Contractor shall perform the following: a. SOILS
- i. Identify soils to be used as structural fill.
- b. CAST-IN-PLACE CONCRETE
- i. Submit manufacturer's certification that reinforcing materials comply with Construction Documents.
- ii. Establish concrete mix design proportions in accordance with the specifications and ACI 318, Chapter 26.4.
- iv. Submit manufacturer's data for tension and compression splicers.
- c. CONCRETE MASONRY
 - Construction Documents:
- 1. Concrete masonry units.
- 2. Mortar materials: Portland cement, hydrated lime, and aggregates.
- 3. Grout materials: Portland cement and aggregates. 4. Joint reinforcement steel.
- 5. Reinforcing steel.
- d. POST-INSTALLED ANCHORS
- i. Contractor shall contact manufacturer's representative for product installation training. Submit a letter indicating that training has taken place.
- e. WOOD i. Submit certification that the manufacturer of structural glued laminated timbers is certified and licensed by AITC.

	REFERENCED STANDARD
Ρ	
Ρ	
С	
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a. Provide copy of Construction Documents to Special Inspector and latest addenda (include change orders and field orders

e. Provide storage space for Special Inspector's exclusive use, such as for storing and curing concrete testing samples.

iii. Submit manufacturer's certification that concrete materials meet the requirements of the Construction Documents.

i. Submit a certification from each manufacturer or supplier stating that the following materials comply with the

ROOF FRAMING PLAN

1/4" = 1'-0"

FOUNDATION PLAN

1/4" = 1'-0"

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FOUNDATION NOTES:

- 1. WALL REINFORCING FOR FULL HEIGHT OF WALLS IS INDICATED ON PLANS (ie, X" #X@XX", DENOTES CMU/BAR SIZE/BAR SPACING) SEE TYPICAL CMU / WALL REINFORCING DETAIL FOR ADDITIONAL REINFORCING AT OPENINGS, CORNERS, CMU CONTRACTION JOINTS, ETC.
- 2. WALLS SHOWN ON PLAN WITHOUT REINFORCING INDICATED TO HAVE MINIMUM REINFORCING AS SHOWN IN THE TYPICAL CMU WALL REINFORCING DETAIL.
- 3. LINTELS ABOVE DOOR AND WINDOW OPENINGS ARE SHOWN ON PLANS. "LX" SEE CMU LINTEL SCHEDULE FOR SIZE AND REINFORCING.
- 4. ALL DIMENSIONS ARE TO BE VERIFIED WITH ARCHITECTURAL DRAWINGS BEFORE DETAILING AND CONSTRUCTION AR TO BEGIN. FOR DIMENSIONS NOT SHOWN, SEE ARCHITECTURAL DRAWINGS.
- 5. DO NOT LOCATE PLUMBING LINES WITHIN CONCRETE FOOTINGS.

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	12db 6dbf or 2
	BAR SIZE #3 #4 #5 #6 #7 #8 * GRAD
	Concr Comp f'c = 3 Bar Tc #3 2'- #4 3'- #5 4'- #6 5'- #7 7'- #8 8'- #9 9'- #10 10'
	#11 11' Concr Comp f'c = 4 Bar Bar To Size To #3 2'- #4 3'- #5 3'- #6 5'- #7 7'- #8 8'- #9 9'- #10 10
	#10 10 #11 12 SPLICE LEI Case #1: For bear than or e specified concrete and bar diamete Case #2: For bear bar diam diamete than bar bar diam

135 DEGREE -SEISMIC STIRRUP / TIE HOOKS

STIRRUP AND TIE HOOKS

135° STIRRUP - TIE **STIRRUP & TIE** HOOK DIMENSIONS, in.* **HOOK DIMENSIONS**, in.* 135° HOOKS 135° HOOKS D,in* A or G A or G A or G APPROX. APPROX. 1 1/2" 4 1/4" 4" 4" 2 1/2" 4 1/2" 4 1/2" 4 1/2" 5 1/2" 5 1/2" 3 3/4" 2 1/2" 3 3/4" 6" 4 1/2" 1'-0" 4 1/2" 4 1/2" 1'-2" 5 1/4" 5 1/4" 9" 5 1/4" 9" 10 1/2" 10 1/2" 6" 1'-4" 6" 6"

<u>135°</u>

DES 40, 50 and 60

TYPICAL BAR HOOK DETAILS

rete Minimum 28 Day pressive Strength,							
3000	psi						
Cas	se 1	Cas	se 2				
Гор Зars	Other Bars	Top Bars	Other Bars				
2'-6"	2'-0"	3'-9"	3'-0"				
3'-3"	2'-9"	5'-0"	3'-9"				
4'-3"	3'-3"	6'-0"	4'-9"				
5'-0"	3'-9"	7'-3"	5'-6"				
7'-0"	5'-6"	10'-6"	8'-0"				
3'-0"	6'-3"	11'-9"	9'-3"				
9'-0"	7'-0"	13'-3"	10'-3"				
0'-0"	11'-6"						
1'-3"	'-3" 8'-9" 16'-6" 12'-9"						

crete Minimum 28 Day
pressive Strength,
4000 nsi

4000 psi				
Case 1		Case 2		
Top Bars	Other Bars	Top Bars	Other Bars	
2'-3"	1'-9"	3'-3"	2'-6"	
3'-0"	2'-3'	4'-3"	3'-3"	
3'-6"	2'-9"	5'-3"	4'-3"	
5'-3"	4'-0"	7'-9"	6'-0"	
7'-6"	5'-9"	11'-3"	8'-9"	
8'-6"	6'-6"	12'-9"	9'-9"	
9'-6"	7'-6"	14'-3"	11'-0"	
10'-9"	8'-3"	16'-0"	12'-6"	
12'-0"	9'-3"	17'-9"	13'-9"	

NGTH NOTES:

ms and columns, concrete cover greater equal to bar diameter, bar spacing greater equal to 2 times bar diameter, and ties as d on the drawings. For other members, e cover greater than or equal to bar diameter As contractor's alternate, class "B" splice lengths may be spacing greater than or equal to 3 times bar

ms and columns, concrete cover less than neter and bar spacing less than 2 bar ir diameter and bar spacing less than 3 times minimum yield strength. neter.

Concrete Minimum 28 Day Compressive Strength, f'c = 5000 psi					
Den	Cas	se 1	Cas	Case 2	
Bar Size	Top Bars	Other Bars	Top Bars	Other Bars	
#3	2'-0"	1'-9"	3'-0"	2'-3"	
#4	2'-9"	2'-3"	3'-9"	3'-0"	
#5	3'-3"	2'-6"	4'-9"	3'-9"	
#6	4'-9"	3'-9"	7'-0"	5'-6"	
#7	6'-9"	5'-3"	10'-0"	7'-9"	
#8	7'-9"	6'-0"	11'-6"	8'-9"	
#9	8'-9"	6'-9"	12'-9"	10'-0"	
#10	9'-9"	7'-6"	14'-6"	11'-3"	
#11	10'-9"	8'-3"	16'-0"	12'-3"	

Concrete Minimum 28 Day Compressive Strength, f'c = 6000 psi					
Den	Cas	se 1	Case 2		
Bar Size	Top Bars	Other Bars	Top Bars	Other Bars	
#3	2'-0"	1'-6"	2'-9"	2'-3"	
#4	2'-6"	2'-0"	3'-6"	2'-9"	
#5	3'-0"	2'-3"	4'-3"	3'-6"	
#6	3'-6"	2'-9"	5'-3"	4'-0"	
#7	5'-0"	4'-0"	8'-6"	6'-6"	
#8	5'-9"	4'-6"	8'-6"	6'-6"	
#9	6'-6"	5'-0"	9'-6"	7'-3"	
#10	7'-3"	5'-6"	10'-9"	8'-3"	

Top bars are horizontal reinforcement with more than 12" of fresh concrete placed below the splice.

8'-0"

Where indicated on the drawings, class "A" lap splice lengths may be calculated by dividing tabulated values by 1.3.

6'-3"

11'-9" 9'-3"

calculated by the steel reinforcement detailer in accordance with ACI 318 and submitted for review.

Tension couplers may be used and installed in accordance with manufacturer's recommendations and shall be capable of ers. For other members, concrete cover less developing 125% of the reinforcing steel ASTM specified

> For lightweight structural concrete, multiply lap splice lengths by 1.3.

CRETE REINFORCEMENT CLASS "B" SPLICE LENGTHS (UNO)

#11

ONCRETE REINF. / TYP. BAR HOOK DETAILS

	REVIS	sions
#	DATE	DESCRIPTION
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SECOND FLOOR PLAN - DEMOLITION 1/8" = 1'-0"

	ABBREVIATIONS	GENERAL PLAN NOTES	MASTER MATE
/ROOF BLY	A.F.F.ABOVE FINISH FLOORALT.ALTERNATEAL/ALUM.ALUMINUMARCH.ARCHITECT/ ARCHITECTURALBD.BOARD	 (NIC)-NOT IN CONTRACT. PROVIDED BY OWNER AND INSTALLED BY OTHERS. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE. ALL DIMENSIONS ARE TO FACE OF STUDS, MASONRY 	033000.C Slab-on-Grade 033000.E Isolation Joint Ma 033000.I Granular Sub-bas 042000.A Concrete Masonr 042000.C Split Face CMU
DECK SISTANT IT	BIT.BITUMINOUSBLKG.BLOCKINGBLDG.BUILDINGB.O.BOTTOM OF SOMETHINGBRG.BEARING	 OR TO CENTERLINE OF STRUCT'L STEEL UNLESS OTHERWISE NOTED. CONTACT ARCHITECT WITH ANY QUESTIONS REGARDING DIMENSIONS. MASONRY DIMENSIONS ARE ACTUAL. EXTERIOR WALL DIMENSIONS ARE TO EXTERIOR FACE OF 	042000.H Vents and Weeps 042000.I Through Wall Flash 042000.L Masonry Reinforc 042000.O Bond Beam
ANKET TO FULL OF WALL /ALL	C.J.CONTRACTION/ CONSTRUCTION JOINTCL.CENTERLINECLG.CEILINGCLR.CLEARC.M.U.CONCRETE MASONRY UNITCOL.COLUMNCONC.CONCRETECONT.CONTINUOUS	 VENEER. 5. REFER TO ENLARGED PLANS FOR DIMENSIONS NOT SHOWN ON 1/8" PLANS. 6. ALL EXTERIOR WALLS ARE WALL TYPE 'A' U.N.O. 7. ALL INTERIOR PARTITIONS ARE WALL TYPE '1' U.N.O. 8. PROVIDE BULLNOSE UNITS AT ALL VERTICAL OUTSIDE CONCRETE BLOCK CORNERS U.N.O. 9. PARTITION TYPES SHALL MAINTAIN THEIR 	061000.ASteel Joists061000.AWood Blocking061000.BPlywood Sheathir061000.CWood Framing061753.AShop Fabricated064100.ACustom Casewor064100.C6Solid-Surface Could
<u>P @ CMU</u>	DBL.DOUBLEDIA.DIAMETERDS.DOWNSPOUTDWG.DRAWINGE.I.F.S.EXTERIOR INSULATION FINISH SYSTEME.J.EXPANSION JOINTEQ.EQUALEQUIP.EQUIPMENT	 CONSTRUCTION AND RESPECTIVE SEPARATION RATING (IF ANY) FOR FULL HEIGHT. ALL MECH., ELEC., AND PLUMBING PENETRATIONS SHALL BE SEALED/SAFED/DAMPERED AS RQD. TO COMPLY W/ APPLICABLE CODES. 10. REFER TO STRUCTURAL DRAWINGS FOR TYPES, SIZES, LOCATIONS, CONNECTIONS, REINFORCEMENT AND OTHER REQ. PERTAINING TO STRUCTURAL 	0/1300.AUnderslab Vapor072100.BPerimeter Founda072100.CThermal Batt Insul072100.DSprayed-In-Place072119.AFoamed-In-Place073113.AAsphalt Shingles073113.BShingle Underlayr
	ELEV.ELEVATORE.O.S.EDGE OF SLABE.R.D.EMERGENCY ROOF DRAIN OVERFLOWE.T.R.EXISTING TO REMAINEXP.EXPANSIONEXT.EXTERIORFAB.FABRICATE/ FABRICATIONFDN.FOUNDATIONF.F.E.FINISH FLOOR ELEVATIONF.G.E.FINISH GRADE ELEVATIONFIN.FINISHFLR.FLOOR/ FLOORINGF.RT.FIRE RETARDENTFTFEFT	 COMPONENTS INDICATED. 11. REFER TO STRUCTURAL DRAWINGS FOR LINTEL SCHEDULE. ALL EXTERIOR LINTELS ARE TO BE GALVANIZED AND PAINTED. 12. VERIFY RQD. DEPTH OF ALL RECESSED SLABS W/ APPROPRIATE FINISH FLOORING MANUFACTURER PRIOR TO PLACEMENT OF SLAB. 13. MASONRY OPENINGS IN CMU WALLS FOR DOORS ARE TYPICALLY LOCATED 8" FROM THE JAMB OPENING TO THE ADJACENT WALL U.N.O. 14. DOORS IN GYPSUM BOARD WALLS ARE TYPICALLY LOCATED 6" FROM THE DOOR JAMB OPENING TO THE ADJACENT WALL U.N.O. 15. WHERE DOORS HAVE 180 DEGREE SWING IN CMU 	073113.CIce & Water Shield073113.DRidge073113.FEave Vent073113.GSoffit Panel073113.HDrip Edge073113.HRake Edge073113.IRake Edge073113.LSheet Metal Wrap073113.CRoof To Wall Vent073133.HDrip Edge074213.BMetal Soffit Panel075400.FDrip Edge
-	FI.FEEIF.V.FIELD VERIFYGA.GUAGEGALV.GALVANIZEDGYP.GYPSUMHORZ.HORIZONTALHT.HEIGHTINSUL.INSULATION	15. WHERE DOORS HAVE 180 DEGREE SWING IN CMU WALL, PROVIDE 3/4" SET BACK FROM FACE OF WALL OF SWING SIDE. COORD. W/ MASON. GENERAL WALL NOTES 1. REFER TO FLOOR PLANS FOR THE LOCATION OF	076200.B Sheet Metal Trim 077123.A Gutter 077123.B Downspout 078400.A Through-Penetrat 079005.A Joint Sealant 081113.A Steel Doors & Frar 081113.C Steel Frame
	INT.INTERIORJT.JOINTLAM.LAMINATEMAS.MASONRYM.E.P.MECHANICAL, ELECTRICAL, PLUMBINGMFR.MANUFACTURERMAT.MATERIALMAX.MAXIMUMMECH.MECHANICALMEM.MEMBRANEMIN.MINIMUMMISC.MISCELLANEOUSM.O.MASONRY OPENINGN.A.NOT APPLICABLEN.I.C.NOT IN CONTRACTN.T.S.NOT TO SCALEO.H.OVERHEADOPP.OPPOSITE	 PARTITION AND WALL TYPES DESCRIBED ON THIS DRAWING. 2. REFER TO STRUCTURAL DRAWINGS FOR OTHER REQUIREMENTS PERTAINING TO REINFORCED UNIT MASONRY. 3. CONTRACTOR SHALL INSTITUTE ALL MEASURES NECESSARY TO ACHIEVE WEATHER-TIGHTNESS OF EXTERIOR WALLS BY ALLOWING POSITIVE DRAINAGE OF WATER TO THE EXTERIOR TO OCCUR WHERE THROUGH-WALL FLASHING IS INDICATED OR RQD. A. KEEP ALL DRAINAGE CAVITIES IN CAVITY WALLS FREE OF MORTAR. B. EXTEND THROUGH-WALL FLASHING TO FACE OF MASONRY VENEER FOR OBSERVATION BY THE ARCHITECT. C. AT MASONRY VENEER, PROVIDE WEEPS AND CAVITY VENTS AT 24" O.C. HORZ. ALTERNATE 	083100.AAccess Door & Free088000.AGlazing092116.AGypsum Board As092116.BMetal Studs and F092116.CGypsum Board-Re092116.EHat Channels092116.GAbuse Resistant G092116.ISound Attenuatio092116.UExterior Soffit Boar096513.AResilient Wall Base099000.APaint101550.AToilet Compartme102800.AToilet & Bath Accord224000.EWall-mounted Dri
- IT EDGE	ORN.ORNAMENTALPEN.PENETRATIONPL.PLATEPOLYISO.POLYISOCYANURATEP.S.F.POUNDS PER SQUARE FOOTP.S.I.POUNDS PER SQUARE INCHP.T.PRESSURE TREATEDRAD.RADIUSREINEREINEORCEMENT	LOCATIONS OF WEEPS W/ VENTS. DO NOT ALLOW WEEPS OR CAVITY VENTS TO BECOME CLOSED OFF. D. REFER TO THE SPECS. FOR MORE INFORMATION ON PLACEMENT AND INSTALLATION OF THROUGH-WALL FLASHING, WEEPS, AND CAVITY VENTS. 4. AT CAVITY WALL CONSTRUCTION, ADHESIVE INSTALL THROUGH-WALL FLASHING ON CMU OR SHEATHING	
BOARD /ALL	RQD.REQUIREDREV.REVISION/ REVISEDR.D.ROOF DRAINSECT.SECTIONSIM.SIMILARSPECS.SPECIFICATIONSS.S.STAINLESS STEELSQ.SQUARESTD.STANDARD	 OVER STUDS, UPWARD MIN. 6" AND PAN-UP THROUGH-WALL FLASHING AT ENDS MINIMUM 6". DO NOT MECHANICALLY FASTEN, PENETRATE, OR PUNCTURE THROUGH-WALL FLASHING. THROUGH- WALL FLASHING TO DIRECT ALL MOISTURE TO EXTERIOR FACE OF WALL. 5. U.N.O. ALL EXTERIOR AND INTERIOR MASONRY AND/OR MTL. STUD WALLS SHALL EXTEND FULL HEIGHT TO BOTTOM OF DECK AND BE SEALED. REFER TO REFLECTED CEILING PLANS. PROVIDE THE 	
<u>RSECTION</u>	SIL.STEELSTRUCT.STRUCTURE/ STRUCTURALSYM.SYMMETRICALSYS.SYSTEMT.O.TOP OF SOMETHINGTHK.THICKTYP.TYPICALU.N.O.UNLESS NOTED OTHERWISEVERT.VERTICALV.I.F.VERIFY IN FIELDW/WITH	FOLLOWING CLOSURE MATERIALS AT TOP OF EXTERIOR AND INTERIOR MASONRY AND METAL STUD WALLS AND PARTITIONS. A. FULL-HEIGHT, NON-RATED MTL STUD/GYP PARTITION RUNNING PERPENDICULAR TO METAL DECK FLUTE/STRUCTURE: COPE GYP TO WITHIN 1/2" OF METAL DECK FLUTE. FILL METAL DECK FLUTE VOID COMPLETELY W/ SOUND ATTENUATION BLANKET MATERIAL, INSTALL CONT. ACOUSTICAL SEALANT BOTH SIDES OF PROVIDE COMPRESSIBLE	
DAD BEARING . TO 8" ABOVE OVE WITH WALL VALL TO BOTTOM URFACES TO	W/O WITHOUT W.P. WORK POINT WT. WEIGHT SYMBOLS LEGEND:	B. FULL-HEIGHT, NON-RATED METAL STUD/GYP PARTITION RUNNING PARALLEL TO METAL DECK FLUTES/STRUCTURE: STOP GYP. TO WITHIN 1/2" OF METAL DECK, INSTALL CONT. ACOUSTICAL SEALANT BOTH SIDES OR PROVIDE COMPRESSIBLE NEOPRENE FILLER.	
ABOVE D @ TOP OF WALL. SEE NOTES FOR TOP OF WALL	0 0.00 BUILDING SECTION	C. FULL-HEIGHT, NON-RATED CMU WALL RUNNING PERPENDICULAR OR PARALLEL TO METAL DECK FLUTES/STRUCTURE: LAY CMU TO WITHIN 1" OF METAL DECK. FILL METAL DECK FLUTE VOID COMPLETELY WITH CUT- TO-FIT COMPRESSIBLE NEOPRENE FILLER OR	
& 2 HR. CONSTRUCTION I.O. " O.C. TYP.	0 0.00 SECTION CUT / DETAIL MARKER 0 DETAIL ELEVATION 0 DRAWING # DETAIL	 SOUND ATTENUATION BLANKET MATERIAL & CONT. ACOUSTICAL SEALANT BOTH SIDES. D. FIRE-RATED FULL-HEIGHT WALLS: FILL ALL VOIDS AT METAL DECK/STRUCTURE ABOVE, W/ FIRE BLANKETS & INTUMESCENT SEALANT PER SECTION 078400. REFER TO DETAILS ON THIS SHEET. E. CMU & GYP. COLUMN SURROUNDS MAY BE STOPPED 12" ABOVE CEILING UNLESS PART 	
6" NOMINAL CMU U.N.O. MASONRY REINFORCEMENT	REFERENCE DETAIL ORAWING # SPOT ELEVATION	 6. PROVIDE CAULKED CONTROL JOINTS WHERE LOAD BEARING CMU ABUTS NON-LOAD BEARING CMU OR WHERE WALLS OF DIFFERENT HEIGHTS ABUT. 	
12" NOMINAL CMU U.N.O. MASONRY REINFORCEMENT	WALL WALL X" X" TYPE WALL YPE SIZE OF CMU OR STUD.	MATERIALS LEGEND:	
	0000 DOOR NUMBER 00 HOLLOW METAL WINDOW & DOOR FRAME TYPE 00 ALUMINUM WINDOW & STOREFRONT FRAME TYPE 00 DOOR ELEVATION TYPES 00 FE-1 WALL MOUNTED FIRE EXTINGUISHER (104400) FE-2 SEMI-RECESSED CABINET	CONCRETE MASONRY UNIT CLAY MASONRY UNIT CLAY MASONRY UNIT WOOD BLOCKING WOOD BLOCKING SPLIT-FACE CONCRETE CAVITY WALL INSULATION/PERLI	
U.N.O.	WITH FIRE EXTINGUISHER (104400)	GROUND-FACE CONCRETE MASONRY UNIT	
ons for split face, R ground face Ashing. At finish		CUT STONE CUT STONE	
MAT. DING FOR SPOT ELEV. TYPICAL. E DRAINAGE AWAY FROM U.N.O. GROUT SOLID; COURSES BELOW SLAB R BARRIER ATION BD. INSUL.	SP SMOKE TIGHT PARTITION: EXTEND PARTITION WALL TO DECK ABOVE, SEAL PERIMETER TO PROVIDE "SMOKE TIGHT INSTALLATION". SEAL ALL PENETRATIONS IHR I HOUR RATING: PROVIDE FIRE SAFING AT VOIDS AT THE TOP PERIMETER OF THE PARTITION AND FIRESAFE ALL PENETRATIONS. VERIFY WITH STRUCTURAL DRAWINGS AND COORDINATE WITH WALL SECTIONS.	STEEL GYPSUM BOARD ALUMINUM ALUMINUM SPRAY-IN- PLACE THERMAL INSULATION	
	(2HR) <u>2 HOUR RATING</u> : PROVIDE FIRE SAFING AT VOIDS AT THE TOP PERIMETER OF THE PARTITION AND FIRESAFE ALL PENETRATIONS. VERIFY WITH STRUCTURAL DRAWINGS AND COORDINATE WITH WALL SECTIONS.		

ERIAL REFERENCE aterial ase nry Unit ase shing cement d Wood Trusses ork ountertop & Backsplash or Barrier dation Board Insulation ulation		Frosstarrant architects Idayette avenue Texington, kentucky 40502 p 859.254.4018
e Thermal Insulation re Insulation yment Material eld ap & Trim nt els n	CO	NOT FOR NSTRUCTION
Assemblies Frame Assemblies I Runners Regular/Type 'X' Gypsum Board ion Blankets ard se & Accessories Inent cessories Irinking Fountain	GENERAL ARCHITECTURAL DETAILS & DEMOLITION PLANS	MERCER COUNTY ATHLETICS IMPROVEMENTS - PHASE 2 FOR: MERCER COUNTY BOARD OF EDUCATION HARRODSBURG, KENTUCKY
	M,E,& CMTA 220 Le Suite & Lexing p 859. Structi 220 G Nashv p 615. Projec Drawr Rev'd 1 2 3 4 5 6 7 8 COF	P Engineer: A, Inc. exington Green Circle 600 gton, KY 40503 .253.0892 ural Engineer: ural Design Group, Inc. reat Circle Rd. Suite 106 rille, TN 37228 .255.5537 6# 22-282 et No: 2203 n By: BB/RK By: BB/DS/RB SHEET RELEASE
	GEN DETAIL	ERAL ARCHITECTURAL S & DEMOLITION PLANS DATE ISSUED: APRIL 13, 2022

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REVISIONS					
#	DATE	DESCRIPTION			
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	ROOM FINISH SCHEDULE							FINISH LEGEND	MATERIAI					
ROOI NO.	A ROOM NAME	FLOOR FINISH	BASE FINISH	NORTH WALL	EAST WALL	South Wall	WEST WALL	CEILING FINISH	SIGN TYPE	COMMENTS	SPEC SECTION	KEY	BASIS OF DESIGN	
100	CONCESSIONS	ETR	ETR & RB1 AT NEW WORK	ETR	ETR	ETR & P AT NEW WORK	ETR	ETR	N/A		033000	SC1	SEALED CONCRETE	
101	WOMEN	SC1	RB1	P1	P1	P1	P1	P-GYP	Type 3		096513	RB1	TYP. 4"H RUBBER COVE BASE	
102	MEN	SC1	RB1	P1	P1	P1	P1	P-GYP	Туре 3		099000	P1	TYPICAL PAINT	
200	SOCCER PRESS BOX	ETR	ETR	ETR	ETR	ETR	ETR	ETR	N/A			· · ·		
												AP	ACCENT PAINT - UP TO THREE COLORS	

SECOND FLOOR PLAN - NEW WORK

FIRST FLOOR PLAN - NEW WORK

	ROOM	۶I۱
	ALL WALLS, GYP DECKING, STRUC UNFINISHED SUR	SUM CTUR FACI
)	UNLESS OTHERW ALL UNFINISHED CONCRETE BLOO RECEIVE A PAIN	ISE N EXTE CK, S I SYS
5. I.	SPECIFICATION F REFER TO FLOOR REFER TO REFLEC ADDITIONAL INF	FOR / PLA CTED OR/V
5.	SOFFIT LOCATIO PROVIDE COLOI INTERSECTION O	NS. R MA F HC
	ALL FURNITURE/E REFERENCE ONL	FLOC EQUII Y AN
	ALL CASEWORK CASEWORK SURI FINISHES WILL RE	toe Face Ceiv
3.	IN SOME CASES FLOORING AND, ONE SPACE - REF CEILING PLANS,	MOR /OR =ER T FINIS
	SPECIFICATIONS PAINTING SHALL COMPONENTS IN	FOR INC NCLL
0.	PROVIDE MECHA CORNER GUARE CORNERS, TYP. R	ANIC DS FC REFER
1.	ADDITIONAL INF COUNTERTOP & APPLICABLE WIL STEEL BRACKETS.	ORN SHEL L BE I SIZES
0	VARIOUS DEPTHS	S INC

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СС				\widetilde{Z} 101 old lafayette avenue Texington, kentucky 40502 p 859.254.4018
BUILDING SECTIONS AND ELEVATIONS	MERCER COUNTY ATHLETICS IMPROVEMENTS - PHASE 2	FOR:	MERCER COUNTY BOARD OF EDUCATION	HARRODSBURG, KENTUCKY
M,E,& CMTA 220 Le Suite & Lexing p 859. Struct 220 G Nashv p 615. BCG	P Engine , Inc. exington 300 gton, KY 253.089 ural Eng ural Des reat Circ reat Circ 255.553	eer: 4050 2 <u>inee</u> ign (cle R 37225 7 2 220	en Circ)3 Group, d. Suit 8 22-28	Inc. re 106
Drawr Rev'd 1 2 3 4 5 6 7 8 CONS CONS CONS			RK DS/RB EASE EASE	2 MENTS

- UM1 PROVIDE DRAIN DOWN PIT BEFORE ENTERING BUILDING. REFER TO DETAIL.
- UM2 NEW WATER METER AND BACKFLOW PREVENTER PIT. REFER TO DETAIL.
- UM3 NEW SEWAGE LIFT STATION. REFER TO DETAIL ON PLUMBING
- DRAWINGS. UM4 LOCATE LIFT STATION CONTROL PANEL ON SIDE OF BUILDING.
- UM5 CONNECT NEW WATER LINE TO EXISTING 6" MAIN. FIELD VERIFY EXACT LOCATION. COORDINATE REQUIREMENTS FOR
- CONNECTION WITH LOCAL WATER UTILITY. UM6 CUT AND PATCH EXISTING PAVEMENT AS REQUIRED TO INSTALL
- NEW BELOW GRADE PIPING. UM7 CONNECT NEW SANITARY FORCE MAIN TO EXISTING FORCE MAIN. FIELD VERIFY EXACT LOCATION. COORDINATE REQUIREMENTS FOR CONNECTION WITH LOCAL SEWER DISTRICT.

FILL BOTTOM OF PIT WITH 2 FT. OF #9 CRUSHED STONE 10' LONG 4" PVC -

2 DOMESTIC WATER DRAINAGE PIT

MECHANICAL SITE NOTES

- A DO NOT SCALE FROM MECHANICAL AND ELECTRICAL DRAWINGS. FIELD VERIFY REQUIRED DIMENSIONS.
- B CONTRACTOR SHALL CUT AND PATCH ALL PAVEMENT, CURBING, etc. AS REOUIRED FOR WORK. CONTRACTOR SHALL REPAIR ALL LANDSCAPING THAT IS DAMAGED FOR WORK.
- C FEDERAL, STATE, LOCAL, MUNICIPALITY AND UTILITY COMPANY CODES, RULES, REGULATIONS AND REQUIREMENTS APPLY UNLESS EXCEEDED BY THIS DESIGN.
- D WHEN INTERRUPTION OF AN EXISTING UTILITY OR SERVICES IS PLANNED OR OCCURS ACCIDENTALLY, THE CONTRACTOR(S) SHALL WORK CONTINUOUSLY AS NEEDED TO RESTORE SAME PROVIDING PREMIUM TIME AS NEEDED AT NO INCREASE IN THE CONTRACT PRICE.
- E PLANNED INTERRUPTION OF ANY SERVICE SHALL BE COORDINATED WITH THE APPROPRIATE MUNICIPALITY OR UTILITY COMPANY, THE ARCHITECT AND THE BUILDING OPERATORS AT LEAST ONE WEEK IN ADVANCE OF ANTICIPATED INTERRUPTION. A SCHEDULE FOR THESE OUTAGES SHALL BE DEVELOPED AND AGREED UPON BETWEEN THE PARTIES MENTIONED TO AVOID UNNECESSARY
- INCONVENIENCE TO THE OWNER OR ANY AFFECTED PARTY. NOTIFY THE UTILITY COMPANY OF ANY ANTICIPATED SERVICES REQUIRED FROM THEM AT LEAST TWO WEEKS IN ADVANCE IN WRITING AND INSURE THAT THEY DO NOT DELAY WORK. F LOCATIONS, DEPTHS, MATERIAL TYPES, ELEVATIONS, ETC. OF ALL APPURTENANCES, LINES, BUILDINGS, ETC. INDICATED ON THESE DRAWINGS WERE TAKEN FROM VARIOUS SOURCES, ARE DIAGRAMMATIC ONLY AND ARE SUBJECT TO SUBSTANTIAL VARIATION FROM EXISTING CONDITIONS. EXISTING UTILITIES LOCATIONS MAY VARY (CONSEQUENTLY ALL CONTRACTORS SHALL EXERCISE
- EXTREME CARE IN THE COURSE OF THEIR WORK SO AS INSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE. FOR SAFETY PURPOSES, PAY PARTICULAR ATTENTION TO THIS PRECAUTION RELATIVE TO NATURAL GAS AND ELECTRICAL LINES. ALL WORK SHALL BE PERFORMED IN ACCORD WITH ALL FEDERAL, STATE, AND/OR LOCAL RULES, REGULATIONS, STANDARDS AND SAFETY REQUIREMENTS. UTILITIES SHALL ALSO BE INSTALLED IN ACCORD WITH THE APPLICABLE MUNICIPALITY OR UTILITY COMPANY STANDARDS. IN ALL CASES, THE MOST STRINGENT
- THE MECHANICAL ENGINEER'S REPRESENTATIVE). CONTRACTOR SHALL VISIT SITE AND FIELD VERIFY THE ROUTING OF ALL UTILITIES G CONTRACTOR SHALL VERIFY EXACT LOCATION OF OUTDOOR RECEPTACLES WITH OWNER PRIOR TO ROUGH-IN.
- H CONTRACTOR SHALL REFER TO CIVIL PLANS FOR COORDINATION WITH OTHER UTILITIES. I COORDINATE ELEVATION AND LOCATION OF ALL CONDUITS ENTERING BUILDING WITH STRUCTURAL FOUNDATION. CONDUIT SHALL PASS THROUGH STEM WALL OF FOUNDATION OR UNDER FOOTING AS REQUIRED.
- J THE LOCATIONS OF UTILITIES SHOWN WITHIN THESE DRAWINGS ARE APPROXIMATE ONLY. K THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY EXCAVATION WORK REOUIRED TO LOCATE UNDERGROUND UTILITIES. THE CONTRACTOR IS ALSO REQUIRED TO NOTIFY ANY OTHER AFFECTED UTILITY OWNERS PRIOR TO DIGGING. IN THE EVENT OF ACCIDENTAL INTERRUPTION OF SERVICE, CONTRACTOR WILL IMMEDIATELY NOTIFY THE OTHER UTILITY OWNERS.
- L THE UTILITY/CONTRACTOR WILL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD OTHER EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. IN THE EVENT THAT SPECIAL EQUIPMENT IS REQUIRED TO WORK OVER AND AROUND THE OTHER UTILITIES. THE UTILITY WILL BE REQUIRED TO FURNISH SUCH EQUIPMENT
- M COORDINATE UNDERGROUND ELECTRICAL WITH ALL LANDSCAPING AND FENCING, ADJUST ELECTRICAL LINES TO AVOID CONFLICTS. REFER TO LANDSCAPING PLANS FOR FURTHER INFORMATION. AVOID ROUTING UNDERGROUND CONDUITS UNDER ROADWAYS OR PARKING LOTS, CROSS ROADWAYS WITH UNDERGROUND CONDUITS AT 90 ANGLES WHERE POSSIBLE.
- N IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO ENSURE THAT ANY ABANDONED PIPING UNCOVERED IN THE COURSE OF THEIR WORK SHALL BE CAPPED WATER TIGHT.
- O TRENCHES FOR UTILITIES SHALL BE BACKFILLED PER MECHANICAL DETAILS AND SPECIFICATIONS. PAVEMENT, ASPHALT, AND OTHER SURFACE WORK SHALL BE PER CIVIL ENGINEERING DRAWINGS AND SPECIFICATIONS. P THE CONTRACTOR SHALL ADJUST ALL EXISTING MANHOLE RINGS AND COVERS AFFECTED BY THIS
- PROJECT AS NECESSARY TO BE FLUSH WITH NEW GRADE. Q CONTRACTOR SHALL COORDINATE RESPONSIBILITIES WITH CONSTRUCTION MANAGER. REFER TO
- SPECIFICATIONS FOR REQUIREMENTS.
- R THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION AND SIZING OF ALL EXPANSION LOOPS PER PIPING MANUFACTURER'S REQUIREMENTS. S REFER TO ARCHITECT'S PHASING PLAN FOR CONSTRUCTION PHASING REQUIREMENTS.

SITE UTILITIES LEGEND

	EXISTING, DEMOLITION, NEW WORK
\bigcirc \bigcirc \bigcirc	SANITARY MANHOLE
	FIRE HYDRANT
\otimes \otimes \otimes	WATER VALVE
ECO <u>D(ECO)</u> ECO	EXTERIOR CLEANOUT
$\begin{array}{c c} TB & \underline{D}(TB) & TB \\ \bullet & \bullet & \bullet \\ \end{array}$	THRUST BLOCK
xxx	NEW PIPING - (XXX) DENOTES SYSTEI
D(XXX)	PIPING TO BE DEMOLISHED - (XXX) DE
—–E(XXX)—–	EXISTING PIPING - (XXX) DENOTES SY
——A(XXX)——	ABANDONED IN PLACE PIPING - (XXX)
OP	OVERHEAD PRIMARY
OS	OVERHEAD SECONDARY
OSL	OVERHEAD STREET LIGHT
OTS	OVERHEAD TRAFFIC SIGNAL
OT	OVERHEAD TELECOMMUNICATIONS
OF	OVERHEAD FIBER OPTIC
OTV	OVERHEAD CATV
UP	UNDERGROUND PRIMARY
US	UNDERGROUND SECONDARY
USL	UNDERGROUND STREET LIGHT
UTS	UNDERGROUND TRAFFIC SIGNAL
UT	UNDERGROUND TELECOMMUNICATIO
UF	UNDERGROUND FIBER OPTIC
UTV	UNDERGROUND CATV
CHW	CHILLED WATER
W	DOMESTIC WATER
—HPS/R—	HIGH PRESSURE SUPPLY/R
PD	PUMPED DISCHARGE RETURN
SS	SANITARY SEWER
—STORM—	STORM

UTILITY COMPANY CONTACTS:

WATER SEWER: HARRODSBURG WATER DEPT TOM HOWELL FIRE CHIEF: HARRODSBURG FIRE DEPARMENT SCOTT HAMMONS

IT IS THE CONTRACTORS RESPONSIBILITY TO MEET ALL LOCAL ORDINANCE AND MUNICIPAL REQUIREMENTS RELATED TO UTILITY INSTALLATION, INSPECTIONS, MATERIALS, FEES, ETC.

BEFORE YOU DIG

THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL CONTACT "BUD (BEFORE YOU DIG)" AT 1-800-752-6007 TO OBTAIN UNDERGROUND UTILITY LOCATIONS PRIOR TO ANY CONSTRUCTION. ANY CONTRACTOR OR SUBCONTRACTOR PERFORMING ANY TYPE OF EXCAVATION ON THIS PROJECT SHALL CALL "BUD" TO OBTAIN AN AUTHORIZATION NUMBER.

PLUMBING GENERAL NOTES	ABBREVIATIONS	ABBREVIATIONS (CONTINUED)	ABBREVIATIONS (CONTINUED)	GENERAL SYMBOLS	PLUMBING PIPING LEGEND	018
A COORDINATE THE LOCATION OF DRAINS, THERMOSTATS, GAS OUTLETS, ETC., WITH ALL CASEWORK EQUIPMENT, MECHANICAL ROOM EQUIPMENT, ETC., PRIOR TO COMMENCING INSTALLATION, WORK NOT SO, COORDINATED SHALL BE	AC ALTERNATING CURRENT		NO NORMALLY OPEN OR NUMBER	# TAGGED NOTE DESIGNATOR	O PIPE ELBOW TURNING UP	9.254.4
REMOVED AND PROPERLY INSTALLED AT THE EXPENSE OF THE CONTRACTOR. B THE CONTRACTOR SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR	ADJ ADJUSTABLE	FL FLOOR	NTS NOT TO SCALE	REVISION TRIANGLE	PIPE ELBOW TURNING DOWN	
WORK SO AS TO ENSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE. FOR SAFETY PURPOSES, PAY PARTICULAR ATTENTION TO THIS PRECAUTION RELATIVE TO NATURAL CAS AND ELECTRICAL LINES. VERIES, THE LOCATION	AFF ABOVE FINISHED FLOOR	FLA FULL LOAD AMPS	OC ON CENTER	ROOM TAG	O PIPE TEE; CONNECTION ON TOP	
SIZE, TYPE, ETC., OF EACH UNDERGROUND OR OVERHEAD UTILITY. ALL WORK SHALL BE PERFORMED IN ACCORD WITH ALL FEDERAL, STATE AND/OR LOCAL	AFR ABOVE FINISHED ROOF	FOB FLAT ON BOTTOM	OD OUTSIDE DI (-AMETER, -MENSION)	INSTANCE XXX-# INSTANCE XXXX EQUIPMENT TAG		
RULES, REGULATIONS, STANDARD AND SAFETY REQUIREMENTS. UTILITIES SHALL BE INSTALLED IN ACCORD WITH THE APPLICABLE MUNICIPALITY OR	AFUE ANNUAL FUEL UTILIZATION EFFICIENCY	FOT FLAT ON TOP	CFCI CONTRACTOR FURNISHED, CONTRACTOR INSTALLED	DOMESTIC WATER RISER TAG		
REQUIREMENT SHALL APPLY. C WHERE WORK IS REQUIRED ABOVE EXISTING LAY-IN, PLASTER OR GYPSUM	AHJ AUTHORITY HAVING JURISDICTION	FPC FIRE PROTECTION CONTRACTOR	OFCI OWNER FURNISHED, CONTRACTOR INSTALLED	SANITARY, WASTE, & VENT RISER TAG		SST C
BOARD CEILINGS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND REINSTALLATION (OR REPLACEMENT, IF DAMAGED) OF ALL CEILING OR TILE AND GRID MEMBERS NECESSARY TO PERFORM HIS WORK NEW TILE AND GRID SHALL				FIRE SUPPRESSION RISER TAG		
MATCH THE SURROUNDING AREAS. ALL PATCHING WORK SHALL MATCH ADJACENT SURFACES.		ET EFET OR FOOT				
D ALL NEW WORK SHALL BE HUNG FROM STRUCTURE, NOT FROM THE WORK OF OTHER TRADES, WHETHER EXISTING OR NEW.	ASHRAF AMERICAN SOCIETY OF HEATING, REFRIGERATION, AND		PC PLUMBING CONTRACTOR			lafaye
 E COORDINATE ALL WORK WITH PROJECT PHASING REQUIREMENTS. F PATCH, REPAIR AND PAINT OR PROVIDE WALL COVERING FOR (TO OWNER'S STANDARDS) EXISTING WALLS, CELLINGS, ETC., THAT ARE TO REMAIN IF 	AIR-CONDITIONING ENGINEERS	FV FACE VELOCITY	PD PRESSURE DROP	— E(XXX) EXISTING PIPING - (XXX) DENOTES SYSTEM	CD CONDENSATE DRAIN	
DAMAGED DURING CONSTRUCTION. REPAIRS SHALL MATCH ADJACENT SURFACES TO THE SATISFACTION OF THE ARCHITECT AND OWNER.	AVG AVERAGE	GA GAGE/GAUGE	PH PHASE [ELECTRICAL]	— A(XXX)— ABANDONED IN PLACE PIPING - (XXX) DENOTES SYSTEM	C02 CARBON DIOXIDE	
G OBSERVE ALL APPLICABLE CODES, RULES AND REGULATIONS THAT MAY APPLY TO THE WORK UNDER THIS CONTRACT. (CITY, COUNTY, LOCAL, FEDERAL, MUNICIPALITY, LITHITY COMPANY, COMMONWEALTH OF KENTLICKY, FTC.)	BAS BUILDING AUTOMATION SYSTEM	GAL GALLON (-S)	PLBG PLUMBING			
H CONTRACTOR SHALL BE AWARE OF UNSEEN PLUMBING WORK DURING DEMOLITION. IF ITEMS ARE UNCOVERED DURING DEMOLITION THEN FIELD	BHP BREAK HORSEPOWER	GC GENERAL CONTRACTOR	PPM PARTS PER MILLION			NOT FOR
VERIFY THE USE OF THE ITEMS AND PLAN AN ALTERNATE ROUTE TO RUN THESE ITEMS. THEN CONTACT THE ENGINEERS TO REVIEW THE ROUTING.	BTU BRITISH THERMAL UNIT	GPD GALLONS PER DAY	PRS PRESSURE REDUCING STATION	TWO-WAY CONTROL VALVE	DCW	CONSTRUCTION
APPROPRIATELY FIRE STOPPED PER AN APPROVED U.L. LISTED STANDARD. CONTRACTOR SHALL PAY PARTICULAR ATTENTION TO INSULATED PIPING	CAP CAPACITY	GPH GALLONS PER HOUR	PRV PRESSURE REDUCING VALVE (STEAM, WATER, GAS)	—————————————————————————————————————		
PENETRATIONS. J ALL WORK REQUIRING DOWNTIME OF ANY AREA IN THE BUILDING SHALL BE SCHEDULED 2 WEEKS IN ADVANCE		GPM GALLONS PER MINUTE	PSF POUNDS PER SQUARE FOOT	AUTOMATIC AIR VENT (AAV)		
 K ALL PIPING IN ROOMS WITH CEILINGS SHALL BE ABOVE CEILING EXCEPT AS NOTED. 	CD CONDENSATE DRAIN	GR GRAINS	PSI POUNDS PER SQUARE INCH	A MANUAL AIR VENT (MAV)		L ↓
L IN ACCORDANCE WITH K.R.S. ALL PLUMBING WORK SHALL BE CONSTRUCTED IN COMPLIANCE WITH PLANS APPROVED BY AND BEARING THE APPROVAL STAMP OF	CFM CUBIC FEET PER MINUTE	H HUMIDITY	PSIG PPSI GAUGE	MANUAL BALANCING VALVE (BV)	—DHR(#°F)—	$\sum_{i=1}^{n}$
CONTRACTOR SHALL NOT BEGIN WORK UNTIL HE HAS RECEIVED SUCH APPROVED PLANS.	C.I. CAST IRON	HD HEAD	RLA RUNNING LOAD AMPS	— — — — — — BALL VALVE	HIGH PRESSURE STEAM CONDENSATE	O
M LOCATIONS OF PIPING AND EQUIPMENT ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD. DO NOT SCALE THE DRAWINGS.	CLG CEILING	HG MERCURY	RPM REVOLUTIONS PER MINUTE	BUTTERFLY VALVE		
 N ALL OFFSETS IN PIPING ARE NOT NECESSARILY SHOWN. PROVIDE ADDITIONAL OFFSETS WHERE NECESSARY. O THE CONTRACTOR IS RESPONSIBLE FOR ALL LITELITY COMPANY EFEC OR OTHER 						
COSTS THAT ANY UTILITY COMPANY MAY REQUIRE TO COMPLETE THEIR WORK. (GAS, SEWER, WATER, ETC.).						
P INSTALL ALL PIPING AND EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTION. IF IN CONFLICT WITH THE DESIGN INDICATED IN CONTRACT DOCUMENTS, ADVISE THE ENCINEERS PROPAGE	COND CONDENS (-FR -ING -ATION -ATE)					
TO INSTALLATION FOR CLARIFICATION. PROVIDE RECOMMENDED ACCESS AND SERVICE CLEARANCES FOR ALL EQUIPMENT.	CONT CONTINU (-ED, -OUS)	Hz HERTZ	TBD TO BE DETERMINED			
Q SEAL AIRTIGHT AROUND ALL DUCTS AND PIPING PENETRATIONS THROUGH WALLS, FLOORS AND ROOF. PROVIDE FIRE STOPPING IN FIRE PARTITION.	CU FT CUBIC FEET	ID I (-DENTIFICATION, -NSIDE DIAMETER, -NSIDE DIMENSION) TE TOP ELEVATION			
 K THE CONTRACTOR SHALL RELOCATE OR AVOID ANY EXISTING EQUIPMENT APPURTENANCES, ETC., THAT CONFLICT WITH NEW WORK. S WHERE MOUNTING HEIGHTS ARE NOT INDICATED OR ARE IN CONFLICT WITH ANY 	CU IN CUBIC INCHES	IN INCH (-ES)	TEMP TEMPERATURE			
OTHER BUILDING SYSTEM, CONTACT THE ENGINEERS BEFORE INSTALLATION. REFER ALSO TO ARCHITECTURAL WALL INTERIOR AND EXTERIOR WALL	CV VALVE FLOW COEFFICIENT	INSUL INSULAT (-ED, -ION)	TPA TRAP PRIMER ADAPTER			S L
ELEVATIONS, CELLING HEIGHTS AND OTHER DETAIL OF THESE DOCUMENTS. T ANY VIBRATING, OSCILLATING OR OTHER NOISE OR MOTION PRODUCING EQUIPMENT SHALL BE ISOLATED FROM SURROUNDING SYSTEMS IN AN APPROVED	dB DECIBEL	INT INTER (-IOR, -ERVAL)	TSP TOTAL STATIC PRESSURE		SVT STEAM VENT PIPING	
MANNER. NOISY OR STRUCTURALLY DAMAGING INSTALLATIONS SHALL BE SATISFACTORILY REPLACED OR REPAIRED AT THE INSTALLING CONTRACTOR'S EXPENSE. THE FINAL DECISION ON THE SUITABLE TY OF A DADTICITIAN	DB DRY BULB	IPS IRON PIPE SIZE	TYP TYPICAL		PLUMBING SYMBOL LEGEND	
UNITE SUITABILITY OF A PARTICULAR INSTALLATION'S ACCEPTABILITY SHALL BE THAT OF THE ENGINEER. U DEVIATIONS IN SIZE, CAPACITIES, FIT, FINISH, ETC. FOR EOUIPMENT FROM THAT	DC DIRECT CURRENT	kW KILOWATT	UNO UNLESS NOTED OTHERWISE		FLEXIBLE PIPE CONNECTION	- STIC
USED AS BASIS OF DESIGN SHALL BE THE RESPONSIBILITY OF THE PURCHASER OF THAT EQUIPMENT. ANY PROVISIONS REQUIRED TO ACCOMMODATE A DEVIATION WHETHER ADDROVED BY THE ENCINEERS OF NOT CHAIL OF THE	DD DUCT SMOKE DETECTOR	kWh KILOWATT HOUR	V VOLT (-AGE, -S)	_	FLOW METER (VENTURI)	Ξ Č、
V VALVES OR ANY MECHANICAL/ELECTRICAL ITEM REQUIRING ACCESS SHALL NOT	DDC DIRECT DIGITAL CONTROLS		VAR VARI (-ABLE, -IES)			K N N
BE LOCATED ABOVE A HARD CEILING. IF THIS IS NOT POSSIBLE, THEN AN APPROPRIATELY SIZED ACCESS DOOR SHALL BE PLACED UNDER THE ITEM TO ALLOW FASY MAINTENANCE AND ADJUSTMENT, ADDITIONALLY ALL CLICH TEMP	DEG DEGREE (-S)	LBS POUNDS	VAV VARIABLE AIR VOLUME	_	FLOW SWITCH	
SHALL NOT BE LOCATED AN UNREASONABLE DISTANCE ABOVE THE CEILINGS. IN GENERAL ALL SUCH ITEMS UNLESS INDICATED OTHERWISE SHALL BE MOUNTED	DIA DIAMETER (-S)					
SIX TO TWELVE INCHES ABOVE THE CEILING. IF IN DOUBT, CONTACT ENGINEER PRIOR TO INSTALLING.						
THE TOP ELEVATION SET FLUSH WITH FINISHED GRADE UNLESS SPECIFICALLY NOTED OTHERWISE.			WB WET BULB			() ⊅ <u>``</u> ≥ Ľ
X WHEN RUNNING ANY TYPE OF PIPING BELOW A FOOTER, OR IN THE ZONE OF INFLUENCE THE PIPING SHALL BE BACKFILLED WITH CEMENTITIOUS FLOWABLE FILL PER SPECIFICATIONS, WHENEVER POSSIBLE LOCATE DIDING OUTCODE OF	EC ELECTRICAL CONTRACTOR	MBH BTU PER HOUR [THOUSANDS]	WBT WET BULB TEMPERATURE			$ \hat{O} \hat{O}$ $[\hat{O}]$
THE TER SELECTIONS. WHENEVER POSSIBLE, LOCATE PIPING OUTSIDE OF THE ZONE OF INFLUENCE. THE ZONE OF INFLUENCE IS THE AREA UNDER THE FOOTER WITHIN A 45 DEGREE ANGLE PROJECTING DOWN FROM THE BOTTOM	ELEV ELEVA (-TION, -TOR)	MCA MINIMUM CIRCUIT AMPS	WPD WATER PRESSURE DROP			BIP
EDGE OF THE FOOTER OF ALL SIDES OF THE FOOTER. ADDITIONALLY, GREASE TRAPS, MANHOLES, VAULTS AND OTHER UNDERGROUND STRUCTURES SHALL BE HELD AWAY FROM BUILDING WALLS FAR FNOLIGH TO BE OUTSIDE OF THE ZONE	ENGR ENGINEER	MFG MANUFACTURER	WT WEIGHT			IZII FOI
OF INFLUENCE. Y THE DOCUMENTS COMPLY WITH THE CODES LISTED.	EQ EQUAL	MIN MIN (-IMUM, -UTE)	W/ WITH	APPLICABLE BUIL	APPLICABLE BUILDING CODES DING CODES DOCUMENT YEAR	
Z WORK IN CONFINED AREAS SHALL BE IN ACCORDANCE WITH THE OWNER'S SAFETY POLICY REQUIREMENTS.	ESP EXTERNAL STATIC PRESSURE	MISC MISCELLANEOUS	W/O WITHOUT	ACCESSIBLE AND US	SEABLE BUILDINGS AND FACILITIES ANSI A117.1 2009	
	ETR EXISTING TO REMAIN	MOCP MAXIMUM OVERCURRENT PROTECTION [AMPS]	% PERCENT	INTERNATIONAL BU	ILDING CODE (IBC)INFPA 13201320132015	H N N H
A THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR AREAS IN WHICH THE CEILING IS REMAINING. THE CONTRACTOR IS RESPONSIBLE	EVAP EVAPORAT (-E, -ING, -ED, -OR, -ION)	MTG MOUNTING	ΔP DIFFERENTIAL PRESSURE	INTERNATIONAL EN	ERGY CONSERVATION CODE (IECC) OR ASHRAE 90.1STATE EDITION2012RE CODE (IFC)STATE EDITION2015	
FOR REMOVING THE EXISTING CEILING AS REQUIRED AND REINSTALLATION. TEMPORARILY SUPPORT LIGHTS, DIFFUSERS, CEILING ETC. REPLACE BROKEN	EWT ENTERING WATER TEMPERATURE	N/A NOT APPLICABLE	ΔT TEMPERATURE DIFFERENCE	NATIONAL FUEL GAS	S CODE STATE EDITION 2012	
VERIFY EXACT REQUIREMENTS. B ALL WALLS AND FLOOR SLABS SHALL BE REPAIRED TO MATCH EXISTING AND	EXP EXPANSION	NC NOISE CRITERIA OR NORMALLY CLOSED	CENTERLINE		IG CODE (IMIC) STATE EDITION 2015 STATE EDITION 2020	
TO A LIKE NEW CONDITION. ALL RATED WALLS AND FLOOR SLABS SHALL BE PATCHED AND REPAIRED TO MAINTAIN RATING.	EXT EXTERIOR	NEBB NATIONAL ENVIRONMENTAL BALANCING BUREAU		NATIONAL ELECTRIC	С CODE (NEC) NFPA 70 2017 RM & SIGNALING CODE NFPA 72 2013	
 ALL EXISTING BUILDING FINISHES SHALL BE PROTECTED DURING THE DEMOLITION PHASE. D HEAVY DASHED LINES INDICATE ITEMS FOR REMOVAL (HON) AND LIGHT 		NIC NOT IN CONTRACT				
SOLID LINES INDICATE EXISTING ITEMS TO REMAIN. E COORDINATE DISPOSAL OF ALL FIXTURES, DEVICES, ETC. (INDICATED FOR						
DEMOLITION) WITH THE OWNER. F ALL OUTAGES SHALL BE SCHEDULED THROUGH THE PROJECT REPRESENTATIVE FOR PROPER COORDINATION. A DECUEST FOR AN OUTAGE						
REPRESENTATIVE FOR PROPER COORDINATION. A REQUEST FOR AN OUTAGE SHALL BE SUBMITTED IN WRITING A MINIMUM OF TWO WEEKS IN ADVANCE.						
A THIS PROJECT INTERFACES EXTENSIVELY WITH EXISTING BUILDING SERVICES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE AND PHASE ALL TIE-INS AND INTERRUPTIONS OF EXISTING						
SERVICES TO MINIMIZE OR ELIMINATE DOWNTIME. AS AN EXAMPLE, MAIN GAS SERVICE, WATER SERVICE, ELECTRICAL SERVICE, HVAC SERVICES, STEAM GENERATION, ETC., WILL BE AFFECTED AND DEDIAGED OD MOVIES						M,E,&P Engineer: CMTA_Inc
STEAM GENERATION, ETC., WILL BE AFFECTED AND REPLACED OR MOVED DURING THIS PROJECT. THE CONTRACTOR SHALL INSTALL ALL NEW SERVICES AND FOUIPMENT AND HAVE THEM TESTED AND FULLY AND						220 Lexington Green, Suite 600 Lexington, KY 40503
SERVICES AND EQUITIENT AND HAVE THEIT LESTED AND TOLET AND						p 859.253.0892 <u>Structural Engineer</u> :
RELIABLY FUNCTIONAL PRIOR TO INTERRUPTING, RELOCATING OR REMOVING ANY EXISTING SERVICES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO BADE ANY AND ALL COSTS ACCOUNTED WITH THE						Brown + Kubican, PSC 2224 Young Dr. Lexinaton, KY 40505
RELIABLY FUNCTIONAL PRIOR TO INTERRUPTING, RELOCATING OR REMOVING ANY EXISTING SERVICES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO BARE ANY AND ALL COSTS ASSOCIATED WITH THIS PHASING, INCLUDING TEMPORARY SERVICES, TEMPORARY RELOCATION, PREMIUM TIME WORK, ETC. CONTRACTOR SHALL COORDINATE ALL SAID						p 859.543.0933
RELIABLY FUNCTIONAL PRIOR TO INTERRUPTING, RELOCATING OR REMOVING ANY EXISTING SERVICES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO BARE ANY AND ALL COSTS ASSOCIATED WITH THIS PHASING, INCLUDING TEMPORARY SERVICES, TEMPORARY RELOCATION, PREMIUM TIME WORK, ETC. CONTRACTOR SHALL COORDINATE ALL SAID WORK WITH THE OWNER AND APPLICABLE UTILITIES PER THE CONTRACT DOCUMENTS.						
RELIABLY FUNCTIONAL PRIOR TO INTERRUPTING, RELOCATING OR REMOVING ANY EXISTING SERVICES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO BARE ANY AND ALL COSTS ASSOCIATED WITH THIS PHASING, INCLUDING TEMPORARY SERVICES, TEMPORARY RELOCATION, PREMIUM TIME WORK, ETC. CONTRACTOR SHALL COORDINATE ALL SAID WORK WITH THE OWNER AND APPLICABLE UTILITIES PER THE CONTRACT DOCUMENTS.						
RELIABLY FUNCTIONAL PRIOR TO INTERRUPTING, RELOCATING OR REMOVING ANY EXISTING SERVICES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO BARE ANY AND ALL COSTS ASSOCIATED WITH THIS PHASING, INCLUDING TEMPORARY SERVICES, TEMPORARY RELOCATION, PREMIUM TIME WORK, ETC. CONTRACTOR SHALL COORDINATE ALL SAID WORK WITH THE OWNER AND APPLICABLE UTILITIES PER THE CONTRACT DOCUMENTS. PLUMBING HAZARDOUS MATERIALS NOTES A THE CONTRACTOR IT IS HEREBY ADVISED THAT IS POSSIBLE THAT						
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 SERVICES FUNCTIONAL PRIOR TO INTERRUPTING, RELOCATING OR REMOVING ANY EXISTING SERVICES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO BARE ANY AND ALL COSTS ASSOCIATED WITH THIS PHASING, INCLUDING TEMPORARY SERVICES, TEMPORARY RELOCATION, PREMIUM TIME WORK, ETC. CONTRACTOR SHALL COORDINATE ALL SAID WORK WITH THE OWNER AND APPLICABLE UTILITIES PER THE CONTRACT DOCUMENTS. PLUMBING HAZARDOUS MATERIALS NOTES A THE CONTRACTOR IT IS HEREBY ADVISED THAT IS POSSIBLE THAT ASBESTOS AND/OR OTHER HAZARDOUS MATERIALS ARE OR WERE PRESENT IN THIS BUILDING(S). ANY WORKER, OCCUPANT, VISITOR, ETC., WHO ENCOUNTERS ANY MATERIAL OF WHOSE CONTENT THEY ARE NOT CERTAIN SHALL PROMPTLY REPORT THE EXISTENCE AND LOCATION OF THAT MATERIAL TO THE OWNER. FURTHERMORE, THE CONTRACTOR SHALL 						BG# 22-282 Project No: 2203/XMSR22 Drawn By: ADS
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-	PLUMBING ——O ——AVT ——CA ——CAI/E ——CD ——CO2 ——CCD ——CST ——O	PIPING LEGEND PIPE ELBOW TURNING UP PIPE ELBOW TURNING DC PIPE TEE; CONNECTION C PIPE TEE; CONNECTION C PIPE CAP ACID VENT ACID WASTE COMPRESSED AIR COMBUSTION AIR INTAKE CONDENSATE DRAIN CARBON DIOXIDE CLEAN STEAM PIPING DOMESTIC COLD WATER	DWN DN TOP DN BOTTOM /EXHAUST ETURN (DCW)				Losstarrant	architects	101 old lafayette avenue lexington, kentucky 40502 p 859.254.4018
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	—DHW(#°F)—				_		Ś	1	
-		RECIRCULATED DOMESTI	C HOT WATER (DHR)				Σ		
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-	HPS/R	HEAT PUMP WATER SUPF	PLY/RETURN						
-	—HRS/R—	HEAT RECOVERY SUPPLY	/RETURN PIPING						
	—HWS/R—	HEATING WATER SUPPLY	/RETURN						
-	LPC-								
-	—_LPS(#)—		#) DENOTES PRESSU	RE					
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TAG	
FD-1	FLOOR DRAIN
HB-1	HOSE BIBB : Z REPLACEABLE HINGED COVE
P-1	WATER CLOS BOLT CAPS AN TRANSFORME
P-1A	WATER CLOS CAPS AND WH OVERRIDE BU
P-2	URINAL - BATT POWERED, SI WITH LIP AT 1
P-3	LAVATORY - W BACKSPLASH MOUNT LAVAT PIPE AND WA
P-4	DRINKING FOU
TP-1	TRAP PRIMER CLOCK, MANU OPENING MAN

Note: Nema 4X enclosure - shown, available in different ratings as required

All valves located above lid (1) each check valve and (1) each gate valve

— 1/4" gas tight steel lid 4" Field Installed Inlet Grommet 5" Dia. Hole Req'd NOTE: All Dims taken from tie wrap on float pole. Tether cord must be no more than 4-5" between float and tie wrap

TAGGED NOTES

P1 REFER TO SITE UTILITIES PLAN FOR CONTINUATION. P2 PROVIDE ISOLATION VALVE IN PIPE RISE AT SERVICE ENTRANCE. PROVIDE SHRAIDER VALVE FOR ATTACHMENT OF COMPRESSED AIR HOSE TO BLOW DOWN PIPING SYSTEM TO WINTERIZE BUILDING.

- P3 ROUTE PIPING TIGHT TO EXISTING CEILING IN THE LEAST OBTRUSIVE ROUTE AS POSSIBLE. FIELD VERIFY EXACT ROUTE.
- P4 ROUTE PIPING UP IN NEW WALL AND ROUTE THROUGH STRUCTURE.
- P5 MOUNT TRAP PRIMER ABOVE CEILING AND CONNECT 1/2" DCW PIPING. ROUTE TRAP PRIMING TUBING TO NEW FLOOR DRAINS.

PLUMBING FIXTURE SCHEDULE			
DESCRIPTION	CW	HW	-
DRAIN - 6" DIA. : ZURN, ZN-415 OR EQUAL FLOOR DRAIN WITH 6" DIAMETER TOP, TYPE "B" NICKEL BRONZE STRAINER, 4" DRAIN OUTLET AND TRAP PRIMER CONNECTION.	-	-	
BB : ZURN MODEL Z1350 OR EQUAL ENCASED MODERATE CLIMATE WALL HYDRANT FOR NARROW WALL INSTALLATION. WITH ALL BRONZE BODY, ALL BRONZE INTERIOR PARTS, EABLE SEAT WASHER, LOOSE KEY OPERATED CONTROL VALVE, VACUUM BREAKER AND 3/4" MALE HOSE CONNECTION. ADJUSTABLE STAINLESS STEEL BOX FURNISHED WITH COVER CYLINDER LOCK AND "WATER" STAMPED ON THE COVER. MOUNTED WITH HOSE CONNECTION AT 18" ABOVE FINISHED FLOOR ELEVATION OF AREA SERVED.	1/2"	-	
CLOSET - FLOOR MOUNTED - SENSOR FLUSH VALVE (HARD WIRED) : VITREOUS CHINA, FLOOR MOUNTED, 15" HIGH, ELONGATED BOWL, SIPHON JET, 11/2" BACK SPUD INLET, CHINA APS AND WHITE OPEN FRONT PLASTIC SEAT WITH SELF-SUSTAINING CHECK HINGES. PROVIDE WITH SLOAN 111 ES-S SENSOR 1.6 GPF FLUSH VALVE OR EQUAL WITH 120 VAC ORMER.	1-1/2"	-	
CLOSET - FLOOR MOUNTED - BATTERY SENSOR FLUSH VALVE - ADA COMPLIANT : VITREOUS CHINA, 18" HIGH ELONGATED BOWL, SIPHON JET, 11/2" TOP SPUD INLET, CHINA BOLT ND WHITE OPEN FRONT PLASTIC SEAT WITH SELF-SUSTAINING CHECK HINGES. PROVIDE WITH A BATTERY POWERED, SIDE MOUNT SENSOR OPERATED 1.6 GPF FLUSH VALVE WITH DE BUTTON AND CHROME PLATED HOUSING. OVERRIDE BUTTON SHALL A MAXIMUM OF 31" AFF.	1-1/2"	-	
- BATTERY POWERED SENSOR FLUSH VALVE - ADA COMPLIANT : VITREOUS CHINA SIPHON JET URINAL WITH 3/4" TOP SPUD INLET AND 2" I.P.S. OUTLET. PROVIDE WITH BATTERY ED, SIDE MOUNT SENSOR OPERATED 1.0 GPF FLUSH VALVE WITH OVERRIDE BUTTON AND CHROME PLATED HOUSING. PROVIDE WITH FLOOR MOUNTED WALL CARRIER. MOUNT P AT 16" AFF.	3/4"	-	
RY - WALL HUNG W/ SINGLE LEVER FAUCET - ADA COMPLIANT : VITREOUS CHINA, 20"X18" WALL HUNG LAVATORY WITH 4" FAUCET CENTERS, CONCEALED ARMS AND 4" HIGH 'LASH. PROVIDE WITH A 0.5 GPM SINGLE LEVER FAUCET, CHROME PLATED 3/8" SUPPLIES WITH STOPS, GRID DRAIN, A KENTUCKY CODE P-TRAP, TAILPIECE AND ESCUTCHEONS. LAVATORY AT A HEIGHT LEAVING A CLEARANCE OF AT LEAST 29" FROM THE FLOOR TO THE APRON AND THE RIM AT A MAXIMUM OF 34" AFF. PROVIDE ON THE EXPOSED WASTE D WATER SUPPLY LINES A TRAP-WRAP INSULATION KIT WITH A VINYL AND PLASTIC COVERING.	1/2"	1/2"	
IG FOUNTAIN - ADA COMPLIANT - ELKAY, AMBIENT, VANDAL RESISTANT OR EQUIVALENT. RECEPTOR, BARRIER FREE DRINKING FOUNTAIN, 18 GAUGE STAINLESS STEEL BASIN, RONT PUSH BUTTON OPERATOR, WALL MOUNTED WITH CARRIER. REFER TO ARCHITECTURAL PLANS FOR MOUNTING HEIGHTS.	1/2"	-	
RIMER TYPE-1 : PRECISIONS PLUMBING PRODUCTS PRIME-TIME OR EQUAL ELECTRONIC TRAP PRIMING MANIFOLD, WITH ATMOSPHERIC VACUUM BREAKER, PRE-SET 24 HOUR MANUAL OVERRIDE SWITCH, 120 VOLT SOLENOID VALVE WITH 120V/3WIRE CONNECTION. PROVIDE IN 12" X 12" X 4" SURFACE MOUNTED METAL CABINET. PROVIDE WITH 10 G MANIFOLD, UN-USED MANIFOLD OPENING SHALL BE CAPPED. INSTALL UNITED AS REQUIRED BY MANUFACTURER.	3/4"	-	

ACCEPTABLE MANUFACTURERS FOR PLUMBING FIXTURES, TRIM, & EQUIPMENT

WATER CLOSETS, LAVATORIES, URINALS AMERICAN STANDARD, KOHLER.	MOP SINKS AND SERVICE SINKS FIAT PRODUCTS, AMERICAN STANDARD, KOHLER FLORESTONE, STERN-WILLIAMS	WASH FOUNTAINS , BRADLEY, ACORN, WILLOUGHBY, INTERSAN	TRAP PRIMERS PPP, SIOUX CHIEF, ZURN
<u>FAUCETS AND TRIM</u> AMERICAN STANDARD, KOHLER, DELTA, ZURN, MOEN	<u>FIXTURE CARRIERS</u> ZURN, TYLER, JOSAM, WATTS, JAY R. SMITH	EMERGENCY FIXTURES - EYEWASH, SHOWERS GUARDIAN, BRADLEY, SPEAKMAN	WATER HEATERS LOCHINVAR, AO SMITH, BRADFORD WHITE, STATE
<u>FLUSH VALVES</u> SLOAN, ZURN, MOEN	STAINLESS STEEL SINKS ELKAY, JUST, MOEN, STERLING	<u>P-TRAP INSULATION KIT (TRAP WRAP)</u> TRUEBRO, BROCAR, PLUMBEREX	<u>TEMPERING VALVES</u> LEONARD, LAWLER, BRADLEY, SYMMONS
FIXTURE SEATS BEMIS, CHURCH, OLSONITE	<u>SHOWER</u> BRADLEY, ZURN, SYMMONS, CHICAGO, SPEAKMAN, POWERS, ACORN, MOEN	<u>FLOOR DRAINS</u> ZURN, WADE, JOSAM, JAY R. SMITH, WATTS	EXPANSION TANKS AMTROL, WATTS, BELL & GOSSETT
ELECTRIC WATER COOLERS ELKAY, HALSEY ACORN, HAWS	WASHER BOX GUY GRAY, WOLVERINE	WALL HYDRANTS AND HOSE BIBBS ZURN, WOODFORD, WATTS	<u>SHOWER VALVES</u> LEONARD, LAWLER, BRADLEY, POWERS

	WATER HEATER SCHEDULE - ELECTRIC									
MARK	MANUFACTURER	MODEL #	SERVICE	STORAGE (GAL)	RECOVERY @ 100°F RISE (GPH)	KW	VOLTAGE	PHASE	REMARKS	
WH-1	A.O. SMITH	DEL-6	HOT WATER	6.00	12.0	3	120 V	1	ALL	
REMARKS:	E WATER HEATER W				OUT AS HIGH AS POSSI	BIE				

1. PROVIDE WATER HEATER WITH WALL MOUNTED SHELF BRACKET AND MOUT AS HIGH AS POSSIBLE.

2 SECOND FLOOR PLUMBING PLAN SCALE: 1/4" = 1'-0"

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VENT	WASTE/DRAIN
2"	4"
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2"	4"
2"	4"
2"	2"
2"	2"
2"	2"
-	-

P1 REFER TO SITE UTILITIES PLAN FOR CONTINUATION.

1 Plumbing Riser

MECHANICAL GENERAL NOTES

- A COORDINATE THE LOCATION OF DRAINS, THERMOSTATS, GAS OUTLETS, ETC., WITH ALL CASEWORK EQUIPMENT, MECHANICAL ROOM EQUIPMENT, ETC., PRIOR TO COMMENCING INSTALLATION. WORK NOT SO COORDINATED SHALL BE REMOVED AND PROPERLY INSTALLED AT THE EXPENSE OF THE CONTRACTOR. B THE CONTRACTOR SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK SO AS TO ENSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE.
- FOR SAFETY PURPOSES, PAY PARTICULAR ATTENTION TO THIS PRECAUTION RELATIVE TO NATURAL GAS AND ELECTRICAL LINES. VERIFY THE LOCATION, SIZE, TYPE, ETC., OF EACH UNDERGROUND OR OVERHEAD UTILITY. ALL WORK SHALL BE PERFORMED IN ACCORD WITH ALL FEDERAL, STATE AND/OR LOCAL RULES, REGULATIONS, STANDARD AND SAFETY REQUIREMENTS. UTILITIES SHALL BE INSTALLED IN ACCORD WITH THE APPLICABLE MUNICIPALITY OR UTILITY COMPANY STANDARDS. IN ALL CASES, THE MOST STRINGENT REQUIREMENT SHALL APPLY.
- WHERE WORK IS REQUIRED ABOVE EXISTING LAY-IN, PLASTER OR GYPSUM BOARD CEILINGS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND REINSTALLATION (OR REPLACEMENT, IF DAMAGED) OF ALL CEILING OR TILE AND GRID MEMBERS NECESSARY TO PERFORM HIS WORK. NEW TILE AND GRID SHALL MATCH THE SURROUNDING AREAS. ALL PATCHING WORK SHALL MATCH ADJACENT SURFACES.
- D ALL NEW WORK SHALL BE HUNG FROM STRUCTURE, NOT FROM THE WORK OF OTHER TRADES, WHETHER EXISTING OR NEW.
- E COORDINATE ALL WORK WITH PROJECT PHASING REQUIREMENTS. F PATCH, REPAIR AND PAINT OR PROVIDE WALL COVERING FOR (TO OWNER'S STANDARDS) EXISTING WALLS, CEILINGS, ETC., THAT ARE TO REMAIN IF DAMAGED DURING CONSTRUCTION. REPAIRS SHALL MATCH ADJACENT SURFACES
- TO THE SATISFACTION OF THE ARCHITECT AND OWNER. G OBSERVE ALL APPLICABLE CODES, RULES AND REGULATIONS THAT MAY APPLY TO THE WORK UNDER THIS CONTRACT. (CITY, COUNTY, LOCAL, FEDERAL, MUNICIPALITY, UTILITY COMPANY, COMMONWEALTH OF KENTUCKY, ETC.)
- H CONTRACTOR SHALL BE AWARE OF UNSEEN PLUMBING, HVAC AND ELECTRICAL WORK DURING DEMOLITION. IF ITEMS ARE UNCOVERED DURING DEMOLITION THEN FIELD VERIFY THE USE OF THE ITEMS AND PLAN AN ALTERNATE ROUTE TO RUN THESE ITEMS. THEN CONTACT THE ENGINEERS TO REVIEW THE ROUTING. I ALL PENETRATIONS OF FIRE AND SMOKE RATED ASSEMBLIES SHALL BE
- APPROPRIATELY FIRE STOPPED PER AN APPROVED U.L. LISTED STANDARD. CONTRACTOR SHALL PAY PARTICULAR ATTENTION TO INSULATED PIPING PENETRATIONS.
- J ALL WORK REQUIRING DOWNTIME OF ANY AREA IN THE BUILDING SHALL BE SCHEDULED 2 WEEKS IN ADVANCE. K ALL DUCTWORK, PIPING, CONDUITS, ETC. IN ROOMS WITH CEILINGS SHALL BE
- ABOVE CEILING EXCEPT AS NOTED. L LOCATIONS OF PIPING, DUCTS AND EOUIPMENT ARE APPROXIMATE AND SUBJECT
- TO MINOR ADJUSTMENTS IN THE FIELD. DO NOT SCALE THE DRAWINGS. M ALL OFFSETS IN DUCTS AND PIPING ARE NOT NECESSARILY SHOWN. PROVIDE ADDITIONAL OFFSETS WHERE NECESSARY.
- N COORDINATE ALL HVAC WORK WITH ELECTRICAL, PLUMBING AND OTHER TRADES TO AVOID INTERFERENCE WITH PIPING, DUCTS, CONDUIT AND OTHER EOUIPMENT.
- O INSTALL ALL PIPING, DUCTWORK AND EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTION. IF IN CONFLICT WITH THE DESIGN INDICATED IN CONTRACT DOCUMENTS, ADVISE THE ENGINEERS PRIOR TO INSTALLATION FOR CLARIFICATION. PROVIDE RECOMMENDED ACCESS AND
- SERVICE CLEARANCES FOR ALL EQUIPMENT. P SEAL AIRTIGHT AROUND ALL DUCTS AND PIPING PENETRATIONS THROUGH WALLS, FLOORS AND ROOF. PROVIDE FIRE STOPPING IN FIRE PARTITION.
- Q SEAL ALL NEW DUCTWORK JOINTS WITH UNITED MCGILL, IRONGRIP 601 OR EQUAL WATER BASED SEALANT.
- R ALL MOTOR DRIVEN EQUIPMENT SHALL BE INSTALLED WITH FLEXIBLE CONNECTIONS TO DUCTWORK, PIPING, ETC., UNLESS OTHERWISE NOTED.
- S THE CONTRACTOR SHALL RELOCATE OR AVOID ANY EXISTING EQUIPMENT APPURTENANCES, ETC., THAT CONFLICT WITH NEW WORK. T WHERE MOUNTING HEIGHTS ARE NOT INDICATED OR ARE IN CONFLICT WITH ANY OTHER BUILDING SYSTEM, CONTACT THE ENGINEERS BEFORE INSTALLATION.
- REFER ALSO TO ARCHITECTURAL WALL INTERIOR AND EXTERIOR WALL ELEVATIONS, CEILING HEIGHTS AND OTHER DETAIL OF THESE DOCUMENTS. U DOUBLE WIDTH TURNING VANES SHALL BE INSTALLED IN ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK ELBOWS.
- V ANY VIBRATING, OSCILLATING OR OTHER NOISE OR MOTION PRODUCING EOUIPMENT SHALL BE ISOLATED FROM SURROUNDING SYSTEMS IN AN APPROVED MANNER. NOISY OR STRUCTURALLY DAMAGING INSTALLATIONS SHALL BE SATISFACTORILY REPLACED OR REPAIRED AT THE INSTALLING CONTRACTOR'S EXPENSE. THE FINAL DECISION ON THE SUITABILITY OF A PARTICULAR INSTALLATION'S ACCEPTABILITY SHALL BE THAT OF THE ENGINEER.
- W DEVIATIONS IN SIZE, CAPACITIES, FIT, FINISH, ETC. FOR EQUIPMENT FROM THAT USED AS BASIS OF DESIGN SHALL BE THE RESPONSIBILITY OF THE PURCHASER OF THAT EQUIPMENT. ANY PROVISIONS REQUIRED TO ACCOMMODATE A DEVIATION, WHETHER APPROVED BY THE ENGINEERS OR NOT, SHALL BE THE RESPONSIBILITY OF THE PURCHASER.
- X VALVES, BALANCING DAMPERS OR ANY MECHANICAL/ELECTRICAL ITEM REQUIRING ACCESS SHALL NOT BE LOCATED ABOVE A HARD CEILING. IF THIS IS NOT POSSIBLE, THEN AN APPROPRIATELY SIZED ACCESS DOOR SHALL BE PLACED UNDER THE ITEM TO ALLOW EASY MAINTENANCE AND ADJUSTMENT. ADDITIONALLY ALL SUCH ITEMS SHALL NOT BE LOCATED AN UNREASONABLE DISTANCE ABOVE THE CEILINGS. IN GENERAL ALL SUCH ITEMS UNLESS INDICATED OTHERWISE SHALL BE MOUNTED SIX TO TWELVE INCHES ABOVE THE CEILING. IF IN DOUBT, CONTACT ENGINEER PRIOR TO INSTALLING.
- Y THE DOCUMENTS COMPLY WITH THE CODES LISTED. Z WORK IN CONFINED AREAS SHALL BE IN ACCORDANCE WITH THE OWNER'S SAFETY POLICY REQUIREMENTS.

MECHANICAL DEMOLITION NOTES

- A THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR AREAS IN WHICH THE CEILING IS REMAINING. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE EXISTING CEILING AS REQUIRED AND REINSTALLATION. TEMPORARILY SUPPORT LIGHTS, DIFFUSERS, CEILING ETC. REPLACE BROKEN CEILING TILES WITH NEW AT NO ADDITIONAL COST TO OWNER. FIELED VERIFY EXACT REQUIREMENTS.
- B ALL WALLS AND FLOOR SLABS SHALL BE REPAIRED TO MATCH EXISTING AND TO A LIKE NEW CONDITION. ALL RATED WALLS AND FLOOR SLABS SHALL BE PATCHED AND REPAIRED TO MAINTAIN RATING.
- C ALL EXISTING BUILDING FINISHES SHALL BE PROTECTED DURING THE DEMOLITION PHASE.
- D HEAVY DASHED LINES INDICATE ITEMS FOR REMOVAL (UON) AND LIGHT SOLID LINES
- INDICATE EXISTING ITEMS TO REMAIN. E COORDINATE DISPOSAL OF ALL FIXTURES, DEVICES, ETC. (INDICATED FOR
- DEMOLITION) WITH THE OWNER. F ALL OUTAGES SHALL BE SCHEDULED THROUGH THE PROJECT REPRESENTATIVE FOR PROPER COORDINATION. A REQUEST FOR AN OUTAGE SHALL BE SUBMITTED IN WRITING A MINIMUM OF TWO WEEKS IN ADVANCE.

MECHANICAL PHASING NOTES

A THIS PROJECT INTERFACES EXTENSIVELY WITH EXISTING BUILDING SERVICES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE AND PHASE ALL TIE-INS AND INTERRUPTIONS OF EXISTING SERVICES TO MINIMIZE OR ELIMINATE DOWNTIME. AS AN EXAMPLE, MAIN GAS SERVICE, WATER SERVICE, ELECTRICAL SERVICE, HVAC SERVICES, STEAM GENERATION, ETC., WILL BE AFFECTED AND REPLACED OR MOVED DURING THIS PROJECT. THE CONTRACTOR SHALL INSTALL ALL NEW SERVICES AND EQUIPMENT AND HAVE THEM TESTED AND FULLY AND RELIABLY FUNCTIONAL PRIOR TO INTERRUPTING, RELOCATING OR REMOVING ANY EXISTING SERVICES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO BARE ANY AND ALL COSTS ASSOCIATED WITH THIS PHASING, INCLUDING TEMPORARY SERVICES, TEMPORARY RELOCATION, PREMIUM TIME WORK, ETC. CONTRACTOR SHALL COORDINATE ALL SAID WORK WITH THE OWNER AND APPLICABLE UTILITIES PER THE CONTRACT DOCUMENTS.

MECHANICAL HAZARDOUS MATERIALS <u>NOTES</u>

- A THE CONTRACTOR IT IS HEREBY ADVISED THAT IS POSSIBLE THAT ASBESTOS AND/OR OTHER HAZARDOUS MATERIALS ARE OR WERE PRESENT IN THIS BUILDING(S). ANY WORKER, OCCUPANT, VISITOR, ETC., WHO ENCOUNTERS ANY MATERIAL OF WHOSE CONTENT THEY ARE NOT CERTAIN SHALL PROMPTLY REPORT THE EXISTENCE AND LOCATION OF THAT MATERIAL TO THE OWNER. FURTHERMORE, THE CONTRACTOR SHALL INSURE THAT NO ONE COMES NEAR TO OR IN CONTACT WITH ANY SUCH MATERIAL OR FUMES THEREFROM UNTIL ITS CONTENT CAN BE ASCERTAINED TO BE NON-HAZARDOUS.
- B CMTA, INC. HAS NO EXPERTISE IN THE DETERMINATION OF THE PRESENCE OF ANY HAZARDOUS MATERIAL. THEREFORE, NO ATTEMPT HAS BEEN MADE BY CMTA TO IDENTIFY THE EXISTENCE OR LOCATION OF ANY SUCH HAZARDOUS MATERIAL FURTHERMORE, CMTA NOR ANY AFFILIATE HEREOF WILL NOT OFFER OR MAKE ANY RECOMMENDATIONS RELATIVE TO THE
- REMOVAL, HANDLING OR DISPOSAL OF SUCH MATERIAL. C IF THE WORK WHICH IS TO BE PERFORMED INTERFACES, CONNECTS OR RELATES IN ANY PHYSICAL WAY WITH OR TO EXISTING COMPONENTS WHICH CONTAIN OR BEAR ANY HAZARDOUS MATERIAL, ASBESTOS BEING ONE, THEN IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO CONTACT THE
- OWNER AND SO ADVISE HIM IMMEDIATELY. D THE CONTRACTOR BY EXECUTION OF THE CONTRACT FOR ANY WORK AND/OR BY THE ACCOMPLISHMENT OF ANY WORK THEREBY AGREE TO BRING NO CLAIM RELATIVE TO HAZARDOUS MATERIALS FOR NEGLIGENCE, BREACH OF CONTRACT, INDEMNITY, OR ANY OTHER SUCH ITEM AGAINST CMTA, ITS PRINCIPALS, EMPLOYEES, AGENTS OR CONSULTANTS. ALSO, THE CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD CMTA, ITS PRINCIPALS, EMPLOYEES, AGENTS AND CONSULTANTS HARMLESS FROM ANY SUCH RELATED CLAIMS WHICH MAY BE BROUGHT BY ANY
- SUBCONTRACTORS, SUPPLIERS OR ANY OTHER THIRD PARTIES. E THE CONTRACTOR IS DIRECTED TO THE SPECIFICATIONS FOR FURTHER INFORMATION.

ABBREVIAT

AC -----ADJ -----AFF _____ AFR _____ AFUE -----AHJ _____ AMP ANSI APD -----ASHRAE _____ ATU -----AVG _____ BAS _____ BHP _____ BTU -----CAP -----CAV -----CD -----CFM -----C.I. _____ CLG -CLR _____ CO -----CO2 COND -----CONT _____ CU FT _____ CU IN CV ----dB _____ DB DBT . DC _____ DD _____ DDC -----DEG -----DIA _____ DN DWG _____ EAT _____ EC _____ ELEV _____ ENGR _____ EQ _____ ESP -----ETR -----EVAP -----EWT _____ EXP _____ EXT -----FA

TIONS	ABBREVI	ATIONS (CONTINUED)	ABBREVIA	TIONS (CONTINUED)	GENERALS	SYMBOLS
ALTERNATING CURRENT	FD	FIRE DAMPER	NO	NORMALLY OPEN OR NUMBER		TAGGED NOTE DESIGNATOR
ADJUSTABLE	FL	FLOOR	NTS	NOT TO SCALE		REVISION TRIANGLE
ABOVE FINISHED FLOOR	FLA	FULL LOAD AMPS	OC	ON CENTER	ROOM NAME [RM #]	ROOM TAG
ABOVE FINISHED ROOF	FOB	FLAT ON BOTTOM	OD	OUTSIDE DI (-AMETER, -MENSION)	TAG XXX-# INSTANCE XXXX	EQUIPMENT TAG
ANNUAL FUEL UTILIZATION EFFICIENCY	FOT	FLAT ON TOP	CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED	•	POINT OF CONNECTION / CONNECT TO EXISTING
AUTHORITY HAVING JURISDICTION	FPC	FIRE PROTECTION CONTRACTOR	OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED		POINT OF DEMOLITION
AMPERE (AMP, AMPS)	FPM	FEET PER MINUTE	OFOI	OWNER FURNISHED, OWNER INSTALLED		
AMERICAN NATIONAL STANDARD INSTITUTE	FPS	FEET PER SECOND	OR	OPEN RECEPTACLE		
AIR PRESSURE DROP	FT	FEET OR FOOT	OZ	OUNCE (-S)		
AMERICAN SOCIETY OF HEATING, REFRIGERATION, AND AIR-CONDITIONING ENGINEERS	FUT	FUTURE	PC	PLUMBING CONTRACTOR		
AIR TERMINAL UNIT	FV	FACE VELOCITY	PD	PRESSURE DROP		
AVERAGE	GA	GAGE/GAUGE	PH	PHASE [ELECTRICAL]	- HVAC LEGI	END
BUILDING AUTOMATION SYSTEM	GAL	GALLON (-S)	PLBG	PLUMBING		SUPPLY AIR DIFFUSER
BREAK HORSEPOWER	GC	GENERAL CONTRACTOR	PPM	PARTS PER MILLION	<u> </u>	RETURN AIR DIFFUSER
BRITISH THERMAL UNIT	GPD	GALLONS PER DAY	PRS	PRESSURE REDUCING STATION		EXHAUST AIR DIFFUSER
CAPACITY	GPH	GALLONS PER HOUR	PRV	PRESSURE REDUCING VALVE (STEAM, WATER, GAS)		TRANSFER AIR DIFFUSER W/ SOUND ATTENUATING BOOT
CONSTANT AIR VOLUME	GPM	GALLONS PER MINUTE	PSF	POUNDS PER SQUARE FOOT		SIDEWALL DIFFUSER/GRILLE
CONDENSATE DRAIN	GR	GRAINS	PSI	POUNDS PER SQUARE INCH	- <u> </u>	SIDEWALL DIFFUSER/GRILLE
CUBIC FEET PER MINUTE	н	HUMIDITY	PSIG	PPSI GAUGE		AIR DEVICE TAG (REGISTER, GRILLE, DIFFUSER,LOUVER)
CAST IRON	HD	HEAD	RH	RELATIVE HUMIDITY [%]		RECTANGULAR DUCT
CEILING	HG	MERCURY	RLA	RUNNING LOAD AMPS		ROUND/SPIRAL DUCT
CLEAR	HORIZ	HORIZONTAL	RPM	REVOLUTIONS PER MINUTE	 { ##/## }	FLAT OVAL DUCT
CARBON MONOXIDE	HP	H (-ORSEPOWER, -EAT PUMP)	SD	SMOKE DAMPER		SUPPLY AIR DUCT
CARBON DIOXIDE	HR	HOUR (-S)	SP	STATIC PRESSURE		RETURN AIR DUCT
CONDENS (-ER, -ING, -ATION, -ATE)	HVAC	HEATING, VENTILATING, & AIR-CONDITIONING	SQ	SQUARE	- <u>EA</u>	EXHAUST AIR DUCT
CONTINU (-ED, -OUS)	Hz	HERTZ	SQ FT	SQUARE FEET OR FOOT		OUTSIDE AIR DUCT
CUBIC FEET	ID	I (-DENTIFICATION, -NSIDE DIAMETER, -NSIDE DIMENSION)	SQ IN	SQUARE INCH OR INCHES		TRANSFER AIR DUCT
CUBIC INCHES	IN	INCH (-ES)	ТАВ	TESTING AND BALANCING		COMBUSTION AIR EXHAUST DUCT
VALVE FLOW COEFFICIENT	INSUL	INSULAT (-ED, -ION)	TBD	TO BE DETERMINED		COMBUSTION AIR INTAKE DUCT
DECIBEL	INT	INTER (-IOR, -ERVAL)	TE	TOP ELEVATION		SA AIR DUCT TURNING UP
DRY BULB	IPS	IRON PIPE SIZE	TEMP	TEMPERATURE		SA AIR DUCT TURNING DOWN
DRY BULB TEMPERATURE	kW	KILOWATT	TSP	TOTAL STATIC PRESSURE		RA AIR DUCT TURNING UP
DIRECT CURRENT	kWh	KILOWATT HOUR	ТҮР	TYPICAL		RA AIR DUCT TURNING DOWN
DUCT SMOKE DETECTOR	LAT	LEAVING AIR TEMPERATURE	UNO	UNLESS NOTED OTHERWISE		EA AIR DUCT TURNING UP
DIRECT DIGITAL CONTROLS	LBS	POUNDS	V	VOLT (-AGE, -S)		EA AIR DUCT TURNING DOWN
DEGREE (-S)	LF	LINEAR FEET/FOOT	VAR	VARI (-ABLE, -IES)	E(XXX)	EXISTING DUCT - (XXX) DENOTES SYSTEM
DIAMETER (-S)	LRA	LOCKED ROTOR AMPS	VAV	VARIABLE AIR VOLUME		DUCT TO BE DEMOLISHED - (XXX) DENOTES SYSTEM
DOWN	LWT	LEAVING WATER TEMPERATURE	VEL	VELOCITY	A(XXX)	DUCT TO BE ABANDONED IN PLACE - (XXX) DENOTES SYSTEM
DRAWING	MAX	MAXIMUM	VFD	VARIABLE FEQUENCY DRIVE		MITERED ELBOW WITH TURNING VANES
ENTERING AIR TEMPERATURE	MBH	BTU PER HOUR [THOUSANDS]	W	WATT (-AGE, -S)		FLEXIBLE DUCT
ELECTRICAL CONTRACTOR	MCA	MINIMUM CIRCUIT AMPS	WB	WET BULB	- <u> </u>	THERMOSTAT
ELEVA (-TION, -TOR)	MFG	MANUFACTURER	WBT	WET BULB TEMPERATURE		TEMPERATURE SENSOR
ENGINEER	MIN	MIN (-IMUM, -UTE)	WPD	WATER PRESSURE DROP	- <u> </u>	HUMIDITY SENSOR
EQUAL	MISC	MISCELLANEOUS	WT	WEIGHT	©	CARBON DIOXIDE SENSOR
EXTERNAL STATIC PRESSURE	MOCP	MAXIMUM OVERCURRENT PROTECTION [AMPS]	W/	WITH	- <u> </u>	TEMPERATURE & CARBON DIOXIDE SENSOR
EXISTING TO REMAIN	MTG	MOUNTING	W/O	WITHOUT		MANUAL BALANCING/VOLUME DAMPER
EVAPORAT (-E, -ING, -ED, -OR, -ION)	N/A	NOT APPLICABLE	%	PERCENT		MOTORIZED DAMPER
ENTERING WATER TEMPERATURE	NC	NOISE CRITERIA OR NORMALLY CLOSED	ΔΡ	DIFFERENTIAL PRESSURE		FIRE DAMPER
EXPANSION	NEBB	NATIONAL ENVIRONMENTAL BALANCING BUREAU	Δτ	TEMPERATURE DIFFERENCE		SMOKE DAMPER
EXTERIOR	NIC	NOT IN CONTRACT	¢_	CENTERLINE		COMBINATION FIRE & SMOKE DAMPER
FREE AREA					VERT. HORIZ.	

	AL PIPING LEGEND PIPE ELBOW TURNING UF	9				cts	p 859.254.401
	PIPE ELBOW TURNING DC	OWN			D†	Φ	40502
	PIPE TEE; CONNECTION C	ON TOP			Ō		ucky .
	PIPE TEE; CONNECTION C	ON BOTTOM			JTC	2	, kent
	PIPE CAP				StC	σ	lingtor
BFW	BOILER FEEDWATER				S		Je lex
CAI/E	COMBUSTION AIR INTAKE	/EXHAUST					avenu
CBS/R—	CHILLED BEAM SUPPLY/R	ETURN					ayette
CD	CONDENSATE DRAIN						ld lafo
—CHWS/R—	CHILLED WATER SUPPLY/	RETURN					101 o
CST	CLEAN STEAM PIPING						
—CWS/R—	CONDENSER WATER SUP	PPLY/RETURN					
—DTS/R—	DUAL TEMP. WATER SUPP	PLY/RETURN			NOT	FOR	
GS/R	GEOTHERMAL WATER SU	IPPLY/RETURN		CC	NSTR	UCTI	ON
——HPC——	HIGH PRESSURE STEAM (CONDENSATE					
—HPS(#)—	HIGH PRESSURE STEAM;	(#) DENOTES PRESSU	RE				
—HPS/R—	HEAT PUMP WATER SUPF	PLY/RETURN			<	1	
—HRS/R—	HEAT RECOVERY SUPPLY	//RETURN PIPING				_	
—HWS/R—	HEATING WATER SUPPLY	/RETURN			4	<u>></u>	
LPC	LOW PRESSURE STEAM (CONDENSATE				•	
—LPS(#)—	LOW PRESSURE STEAM;	(#) DENOTES PRESSU	RE				
MPC	MEDIUM PRESSURE STEA	AM RETURN				•	
—MPS(#)—	 MEDIUM PRESSURE STEA	AM; (#) DENOTES PRES	SURE				
	STEAM CONDENSATE PU	MPED DISCHARGE					
<u>Эг</u> р							
D(XXX)	PIPING TO BE DEMOLISHE	ED - (XXX) DENOTES S'	YSTEM				
—E(XXX)—	EXISTING PIPING - (XXX) D	DENOTES SYSTEM			\sim		
—A(XXX)—	ABANDONED IN PLACE PI	PING - (XXX) DENOTES	SYSTEM		S П		
	TWO-WAY CONTROL VALVE				\triangleleft		
	THREE-WAY CONTROL VAL	/E				Z	
Q	AUTOMATIC AIR VENT (AAV	/)			1	P	
<u> </u>	MANUAL AIR VENT (MAV)				ITS	A	
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JATING BOOT	—HPS(#)—	HIGH PRESSURE STEAM; (#) DENOTES PRESSU	RE				
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	—E(XXX)—	EXISTING PIPING - (XXX) D	ENOTES SYSTEM					
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APPLICABLE BUILDI	NG CODES		DOCUMENT	YEAR				
ACCESSIBLE AND USEA	BLE BUILDINGS AND	FACILITIES	ANSI A117.1 NFPA 13	2009	<u>M,E,8</u> CMT/	<u>P Enginee</u> A, Inc.	<u>*</u> :	
INTERNATIONAL BUILD	DING CODE (IBC)		STATE EDITION	2015	220 Le Lexing	exington C gton, KY 4	Freen, Sui 0503	te 600
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VENTILATION FAN SCHEDULE

					E.S.P.						MAX		
MANUFACTURER	MODEL #	SERVICE	TYPE	CFM	("WG)	RPM	WATTS	VOLTAGE	PHASE	DRIVE	SONES	WEIGHT	REMARKS
GREENHECK	CSP-B200	RESTROOM	INLINE	150	0.20	818	179	120 V	1	DIRECT	0.8	15	ALL
GREENHECK	CSP-B200	RESTROOM	INLINE	150	0.20	818	179	120 V	1	DIRECT	0.8	15	ALL
:													

ACCEPTABLE MANUFACTURERS INCLUDE: GREENHECK, CARNES, CAPTIVEAIRE AND LOREN-COOK.
 PROVIDE WITH INTEGRAL DISCONNECT PER NEC WITH SINGLE POINT POWER CONNECTION.
 PROVIDE WITH UNIT MOUNTED SPEED CONTROL AND VIBRATION ISOLATION HANGERS.

ELECTRIC HEATER SCHEDULE											
			DIMENSIONS (IN)				ELECTRICAL DATA				
MANUFACTURER	MODEL #	TYPE	LENGTH	WIDTH	HEIGHT	KW	VOLTAGE	PHASE	REMARKS		
BERKO	FFCH-548	RECESSED CEILING	24	24	7	3	208 V	1	ALL		
:											

REMARKS: 1. ACCEPTABLE MANUFACTURERS INCLUDE: QMARK, BERKO, MARLEY, TPI. 2. PROVIDE UL LISTED AND NEC COMPLIANT POWER DISCONNECT MEANS AND THERMAL OVERLOAD PROTECTION. 3. PROVIDE INTEGRAL CONCEALED THERMOSTAT AND RECESSED BACKBOX FOR CEILING INSTALLATION.

12'



DESCRIPTION

IGHTING CONTROLS
IGHT SWITCH: LOW VOLTAGE (WHEN PRESENT, # INDICATES UANTITY OF CHANNELS)
INE VOLTAGE SWITCH
NE VOLTAGE THRFF-WAY FOUR-WAY SWITCH
INE VULTAGE THREE-WAY, FOUR-WAY DIMMER SWITCH
CCUPANCY OR VACANCY SENSOR SWITCH
CCUPANCY OR VACANCY SENSOR, CEILING MOUNT
CCUPANCY SENSOR, CORNER MOUNT
HOTOCELL
IGHTING RELAY
MERGENCY AUTOMATIC TRANSFER SWITCH FOR LIGHTING
ONTROLS (REFER TO DETAIL)
POWER OUTLETS
IMPLEX RECEPTACLE (TEXT INDICATES NEMA TYPE)
UPLEX RECEPTACLE
LASH THROUGH ANY DEVICE INDICATES MOUNTING ABOVE
OUNTERTOP 4" ABOVE BACKSPLASH
5' INDICATES INTEGRAL GROUND FAULT PROTECTION (GFCI)
UADRUPLEX RECEPTACI E
UNCTION BOX, CEILING OR WALL
ROUND FAULT PROTECTED DUPLEX WITH WEATHER-PROOF WHILE IN USE" TYPE DIE-CAST METAL COVERPLATE WITH
OCKABLE ENCLOSURE AT OUTLET - SEE SPECIFICATIONS
OX ON ANY DEVICE INDICATES SURFACE MOUNTED ACKBOX/WIREMOLD
EFER TO LUMINAIRE SCHEDULE FOR EXACT FIXTURE PECIFICATIONS, MOUNTING HEIGHTS, ETC.
URFACE OR SUSPENDED CEILING FIXTURF
ECESSED CEILING FIXTURE
ULE MOUNTED AREA LIGHT WITH CONCRETE BASE
MERGENCY BATTERY WALL-PACK
/ALL MOUNT FIXTURE
ATT LIGHT (CEILING, END, WALL MOUNT) WITH OR WITHOUT IRECTIONAL ARROWS, WITH OR WITHOUT EGRESS HEADS
TRIP FIXTURE
ROSS-HATCHING INDICATES LIGHT IS POWERED FROM THE
MERGENCY-CRITICAL BRANCH
ARALLEL-HATCHING INDICATES LIGHT IS POWERED FROM THE
NISCELLANEOUS
ONDUIT CONCEALED IN WALLS OR IN CEILING SPACE: RROW(S) INDICATE(S) HOME RUN & # OF CIRCUITS:
ASHMARKS INDICATE # OF CONDUCTORS.
ISCONNECT SWITCH
ANELBOARD, SURFACE OR FLUSH MOUNTED, HATCHING IDICATES EMERGENCY
RANSFORMER
RANSFORMER
RANSFORMER IOTOR CONNECTION, REFER TO EQUIPMENT CONNECTION CHEDULE ROVIDE CONNECTION TO HAND DRYER (SEE ARCHITECTURAL
RANSFORMER IOTOR CONNECTION, REFER TO EQUIPMENT CONNECTION CHEDULE ROVIDE CONNECTION TO HAND DRYER (SEE ARCHITECTURAL PECIFICATIONS)
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DATA / VOICE

DATA OUTLET : NUMBER BESIDE OUTLET INDICATES NUMBER OF DATA JACKS. NO NUMBER INDICATES 1 JACK. SLASH THROUGH ANY DEVICE INDICATES MOUNTING ABOVE COUNTERTOP 4" ABOVE BACKSPLASH

DATA RACK: FOUR POST. REFER TO COMMUNICATIONS RISERS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.



ELECTRICAL GENERAL NOTES A EACH CONTRACTOR, PROPOSER, SUPPLIER AND/OR MANUFACTURER SHALL REFER TO ALL DOCUMENTS PERTAINING TO THIS PROJECT AND COORDINATE ACCORDINGLY SO AS TO ENSURE ADEOUACY OF FIT, COMPLIANCE WITH SPECIFICATIONS, PROPER VOLTAGE AND CURRENT CHARACTERISTICS TO AVOID CONFLICT WITH ANY OTHER BUILDINGS SYSTEMS. VERIFY SAME WITH SHOP DRAWINGS. B ADDITIONAL ELECTRICAL REQUIREMENTS MAY BE SHOWN ON PLANS FROM OTHER DISCIPLINES IN THIS SET. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW ALL PLANS AND SPECIFICATIONS FOR A COMPLETE UNDERSTANDING OF THE PROJECT REQUIREMENTS. C WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ALL LOCAL, STATE, AND NATIONAL CODES. INCLUDING BUT NOT LIMITED TO NFPA 70 (NEC), NFPA 72, INTERNATIONAL BUILDING CODES, ETC. D CONTRACTOR SHALL FOLLOW SEISMIC RESTRAINT AND DESIGN REQUIREMENTS CONTAINED IN LATEST ADOPTED STATE AND INTERNATIONAL BUILDING CODES, WITH ALL AMENDMENTS AS ADOPTED BY THE CURRENT LEGISLATION. REFER TO ELECTRICAL AND STRUCTURAL SPECIFICATIONS FOR ADDITIONAL INFORMATION. E ALL OFFSETS, TURNS, FITTINGS, TRIM, DETAIL, ETC. MAY NOT BE INDICATED, BUT SHALL BE PROVIDED AS REQUIRED. ADDITIONAL ALLOWANCES SHALL BE INCLUDED FOR SAME AT EACH PROPOSER'S DISCRETION. F INSTALL NO PIPING, CONDUIT, DUCTWORK, ETC. IN A LOCATION OR IN A MANNER WHICH WILL ALLOW FREEZING OR THE COLLECTION OF CONDENSATION THEREON. IF IN DOUBT, CONTACT THE ENGINEER. G ADVISE THE ENGINEER OF ANY CONFLICTS, ERRORS, OMISSIONS, ETC. AT LEAST TEN DAYS PRIOR TO BID DATE, TO ALLOW CLARIFICATION BY WRITTEN ADDENDUM. H WHERE CONFLICTS ARE FOUND BETWEEN DRAWINGS, DETAILS, OR SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL APPLY. NOTIFY ARCHITECT OF DISCREPANCY IN WRITING. I DEVIATION FROM SPECIFICATIONS OR PLANS REQUIRES PRIOR WRITTEN APPROVAL FROM THE ENGINEERS AND MUST BE SUBMITTED IN WRITING NO LATER THAN TEN DAYS PRIOR TO THE BID DATE. J OBSERVE ALL APPLICABLE CODES, RULES AND REGULATIONS THAT MAY APPLY TO THE WORK UNDER THIS CONTRACT. (CITY, COUNTY, LOCAL, STATE, FEDERAL, MUNICIPALITY, UTILITY COMPANY, OSHA, ETC.). K MOUNTING HEIGHTS FOR WALL MOUNTED DEVICES INDICATED ABOVE FINISHED FLOOR ARE TO CENTER OF DEVICE UON. MOUNTING HEIGHTS TO CEILING SUSPENDED DEVICES ARE TO BOTTOM OF DEVICE UON. L INSTALL EQUIPMENT, MATERIALS, ETC. IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND DIRECTIONS. IF IN CONFLICT WITH THE DESIGN INDICATED IN CONTRACT DOCUMENTS, ADVISE THE ENGINEER PRIOR TO INSTALLATION FOR CLARIFICATION. M DO NOT RECESS PANELBOARD TUBS OR OTHER FLUSH-MOUNTED EQUIPMENT IN WALLS THAT HAVE A FIRE RATING. NO INSTALLATION SHALL DIMINISH OR VOID FIRE RESISTIVE RATINGS IN ANYWAY. N THE PURPOSE AND INTENT OF ALL OF THE DOCUMENTS PERTAINING TO THIS PROJECT IS TO PROVIDE A COMPLETE, FUNCTIONAL, SAFE, LIKE-NEW FACILITY. ANYTHING LESS SHALL BE UNACCEPTABLE. O ALL SYSTEMS, EQUIPMENT AND MATERIALS ARE TO BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER, WORK NOT MEETING THIS CRITERION SHALL BE REMOVED AND REINSTALLED SATISFACTORILY. FINAL DETERMINATION OF THE ACCEPTABILITY OF THE QUALITY OF WORK RESIDES WITH THE ENGINEER P ALL WORK, MATERIALS, EQUIPMENT, ETC. SHALL BE FULLY GUARANTEED FOR ONE FULL CALENDAR YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION AS DOCUMENTED BY THE ENGINEER, UNLESS LONGER WARRANTY PERIODS FOR EQUIPMENT ARE SPECIFIED. Q UNLESS OTHERWISE SPECIFIED OR INDICATED, ALL EQUIPMENT AND/OR MATERIALS WITHIN OCCUPIED SPACES OR EXPOSED TO VIEW ON THE BUILDING EXTERIOR SHALL BE PRIMED AND FINISHED SO AS TO COMPLEMENT ADJACENT SURFACE, UNLESS OTHERWISE NOTED. COORDINATE WORK AND COLORS WITH ARCHITECT. R WHERE PENETRATING ROOFING MEMBRANE OR OTHER MATERIALS USED FOR WEATHERPROOFING THE BUILDING, MAKE SUCH PENETRATION IN A WAY THAT WILL NOT VOID OR DIMINISH THE ROOFING WARRANTY OR INTEGRITY IN ANYWAY. COORDINATE ALL SUCH PENETRATIONS WITH THE ROOFING MANUFACTURER AND ARCHITECT. S THE CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY COMPANY FEES, CASH CONTRIBUTIONS OR OTHER COSTS THAT THE UTILITY COMPANY MAY REQUIRE TO COMPLETE THEIR WORK. (ELECTRIC, TELEPHONE, TELEVISION, DATA, ETC.). T COORDINATE WITH ARCHITECTURAL FLOOR PLANS, ELEVATIONS AND CASEWORK DETAILS FOR LOCATION OF ADDITIONAL RECEPTACLES, UTILITY OUTLETS, ELECTRICAL DEVICES, ETC. U CEILING-MOUNTED ELECTRICAL DEVICES SHALL BE CENTERED IN 2'X2' CEILING TILE AND INSTALLED CENTERED ON 2' DIMENSION OF 2'X4' TILE AND ON CENTERLINE OR A QUARTER POINT ON 4' DIMENSION. V ANY VIBRATING, OSCILLATING OR OTHER NOISE OR MOTION PRODUCING EQUIPMENT SHALL BE ISOLATED FROM SURROUNDING SYSTEMS IN AN APPROVED MANNER. NOISY OR STRUCTURALLY DAMAGING INSTALLATIONS SHALL BE SATISFACTORILY REPLACED OR REPAIRED AT THE INSTALLING CONTRACTORS' EXPENSE. THE FINAL DECISION ON THE SUITABILITY OF A PARTICULAR INSTALLATION'S ACCEPTABILITY SHALL BE THAT OF THE ENGINEER. W CHECK ALL THREE PHASE MOTORS WITH A PHASE ROTATION METER, PRIOR TO PLACING IN SERVICE. X PROVIDE DETAILED SHOP DRAWINGS TO ENGINEER PRIOR TO PURCHASING OR INSTALLING ANY EQUIPMENT Y DEVIATIONS IN SIZES, CAPACITIES, FIT, FINISH, ETC. FOR EQUIPMENT FROM THAT PRIME SPECIFIED SHALL BE THE RESPONSIBILITY OF THE PURCHASER OF THAT EQUIPMENT. ANY PROVISIONS REQUIRED TO ACCOMMODATE A DEVIATION, WHETHER APPROVED BY THE ENGINEER OR NOT, SHALL BE THE RESPONSIBILITY OF THE PURCHASER. Z THE CONSTRUCTION MANAGER, GENERAL CONTRACTOR, OR WHOMEVER HOLDS THE PRIME CONTRACT(S) FOR THIS CONSTRUCTION IS RESPONSIBLE FOR THE COORDINATION, APPEARANCE, SCHEDULING AND TIMELINESS OF THE WORK OF ALL TRADES, CONTRACTORS, SUPPLIERS, INSTALLERS, ETC. POOR OR UNTIMELY WORK ON THE PART OF ANY SUBCONTRACTOR SHALL BE RESOLVED BY THE PARTY WHO ENGAGED THEM ON THIS PROJECT. AA WHERE MOUNTING HEIGHTS ARE NOT INDICATED OR ARE IN CONFLICT WITH ANY OTHER BUILDING SYSTEM, CONTACT THE ENGINEER BEFORE AFFECTING INSTALLATION. REFER ALSO TO ARCHITECTURAL INTERIOR AND EXTERIOR ELEVATIONS, CEILING HEIGHTS AND OTHER DETAILS OF THESE DOCUMENTS, AS APPLICABLE. AB WHERE FIRE-RATED CEILING ASSEMBLIES ARE NOTED, PROVIDE UL-LISTED FIRE-RATED GYPSUM BOARD OR PRE-MANUFACTURED ENCLOSURES ABOVE LUMINAIRES, CEILING DEVICES, ETC. IN OR ON CEILING, AS REQUIRED TO MAINTAIN CEILING RATINGS. AC COORDINATE THE LOCATION OF DRAINS, ELECTRICAL OUTLETS, GAS OUTLETS, ETC. WITH ALL CASEWORK, KITCHEN EQUIPMENT MECHANICAL ROOM EQUIPMENT, ETC. PRIOR TO COMMENCING INSTALLATION. WORK NOT SO COORDINATED SHALL BE REMOVED AND PROPERLY INSTALLED AT THE EXPENSE OF THE RESPONSIBLE CONTRACTOR(S). AD ALL ELECTRICAL COMPONENTS OR EQUIPMENT SHALL BE LISTED AND LABELED BY UNDERWRITER'S LABORATORIES OR OTHER APPROVED LISTING AGENCY. APPROVAL AND LABELING OF INDIVIDUAL COMPONENTS ON AN ASSEMBLY IS NOT ACCEPTABLE AS MEETING THIS REQUIREMENT, UNLESS WAIVED BY THE ENGINEER IN WRITING. AE ALL WIRING SYSTEMS SHALL BE INSTALLED WITH A MINIMUM OF SPLICES. CONDUCTORS, WHETHER SINGLE OR MULTI-PAIR, SHALL BE INSTALLED CONTINUOUS INSOFAR AS POSSIBLE FROM TERMINAL POINT TO TERMINAL POINT. AF NO CONDUIT, SUPPORTS, ETC. SHALL BE RUN THROUGH ACCESS CLEARANCES OF EQUIPMENT BY OTHER TRADES (I.E. VAV BOXES). COORDINATE WITH ALL TRADES PRIOR TO CONSTRUCTION. AG ALL CONTRACTORS SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK SO AS TO ENSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE OR SUB-SERVICE FOR SAFETY PURPOSES. PAY PARTICULAR ATTENTION TO THIS PRECAUTION RELATIVE TO NATURAL GAS AND ELECTRICAL LINES. VERIFY THE LOCATION, SIZE, TYPE, ETC. OF EACH UNDERGROUND OR OVERHEAD UTILITY. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL FEDERAL, STATE AND/OR LOCAL RULES, REGULATIONS, STANDARD AND SAFETY REQUIREMENTS. UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE MUNICIPALITY OR UTILITY COMPANY STANDARDS. IN ALL CASES, THE MOST STRINGENT REQUIREMENT SHALL APPLY. AH ALL SUPPORTS FOR EQUIPMENT, DEVICES OR FIXTURES SHALL BE UNIQUE, DIRECTLY FROM THE BUILDING STRUCTURE. DO NOT SUPPORT WORK FROM OTHER TRADES EQUIPMENT OR SUPPORTS WITHOUT WRITTEN PERMISSION FROM THE ENGINEER AND CONSENT OF THE OTHER TRADE, IN WRITING. AI WHERE INTERRUPTING AN EXISTING UTILITY OR SERVICE DELIBERATELY OR ACCIDENTALLY, THE RESPONSIBLE CONTRACTOR SHALL WORK CONTINUOUSLY AS NEEDED TO RESTORE SAME, PROVIDING PREMIUM TIME AS NEEDED. AJ REFER TO ARCHITECTURAL WALL ELEVATIONS (WHERE GIVEN) FOR HEIGHTS AND MOUNTING RELATIONSHIP OF OUTLETS AND EQUIPMENT. IF IN DOUBT, CONTACT ENGINEER FOR DIRECTION PRIOR TO ROUGH IN. AK FLUSH OR PEDESTAL TYPE FLOOR OUTLETS/BOXES, AS INDICATED ON PLAN, SHALL BE LOCATED BY DIMENSIONS PROVIDED BY THE ARCHITECT, UNLESS OTHERWISE SHOWN ON PLANS. IF IN DOUBT, CONTACT THE ENGINEER PRIOR TO ROUGHING-IN ANY WORK. AL AS APPLICABLE, REFER TO ARCHITECTURAL PHASING PLANS AND PHASING BOUNDARIES ON THESE DRAWINGS FOR SEQUENCING OF WORK, FULL EXTENT OF AREAS INVOLVED, EXTENT OF CEILING WORK, ETC. PROVIDE TEMPORARY CONNECTIONS FOR CIRCUITS AND WORK AS REQUIRED TO MAINTAIN SEQUENCE OF THE WORK FROM PHASE TO PHASE. AM THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED FOR HIS WORK. ALL CUTTING AND PATCHING SHALL BE IN ACCORDANCE WITH THE ARCHITECT'S STANDARDS FOR SUCH WORK. AN ALL WORK SHALL BE CONCEALED UNLESS SPECIFICALLY INDICATED TO BE EXPOSED, OR REQUIRED TO BE EXPOSED. IF IN DOUBT, CONTACT THE ENGINEER FOR CLARIFICATIONS PRIOR TO INSTALLING ANY SUCH WORK. AO INTERRUPTION OF ANY EXISTING SERVICES SHALL BE COORDINATED WITH THE OWNER, GENERAL CONTRACTOR, UTILITY COMPANY AS NECESSARY, AND THE ARCHITECT, AT LEAST TWO WEEKS IN ADVANCE OF ANTICIPATED INTERRUPTION. A SCHEDULE FOR THESE OUTAGES SHALL BE DEVELOPED AND AGREED UPON BETWEEN THE PARTIES MENTIONED TO AVOID UNNECESSARY INCONVENIENCE TO THE OWNER OR ANY AFFECTED PARTY. NOTIFY THE UTILITY COMPANY OF ANY ANTICIPATED SERVICES REQUIRED TWO WEEKS IN

ADVANCE, IN WRITING. IF UTILITY COMPANY REQUIRES A LONGER NOTIFICATION PERIOD, SO PROVIDE. AP WHERE BACKBOXES ARE LOCATED IN THE SAME VERTICAL CHANNEL/STUD SPACE ON OPPOSITE SIDES OF THE SAME WALL, PROVIDE

AF WHERE DECREDENTED IN THE SAME VERTICAL CHAINELYSTOD SFACE ON OFFOSITE SIDES OF THE SAME WALL, FROVIDE SOUND-INSULATING PUTTY AROUND BOXES AS REQUIRED TO ELIMINATE SOUND TRANSMISSION FROM ROOM TO ROOM.
 AQ JUNCTION BOXES LOCATED ABOVE ACCESSIBLE CEILINGS SHALL BE LOCATED NO MORE THAN 36" ABOVE CEILING LEVEL. LABEL EACH BOX IN AREA OF WORK WITH A PERMANENT MARKER OR IN ACCORDANCE WITH SPECIFICATIONS, WHICHEVER IS MORE STRINGENT.
 AR ALL MATERIALS FURNISHED AND ALL WORK INSTALLED SHALL COMPLY WITH THE CURRENT EDITION OF THE NATIONAL ELECTRICAL

CODES, NATIONAL FIRE CODES OF THE NATIONAL FIRE PROTECTION ASSOCIATION, THE REQUIREMENTS OF LOCAL UTILITY COMPANIES, AND WITH THE REQUIREMENTS OF ALL GOVERNMENTAL AGENCIES OR DEPARTMENTS HAVING JURISDICTION. IF ANY CONFLICTS OR DISCREPANCIES OCCUR THE MOST STRINGENT SHALL APPLY.
 AS DO NOT SCALE FROM DRAWINGS, AS PRINTING DISTORTS SCALE. WORK SHALL BE LAID OUT FROM DIMENSIONED DRAWINGS, OR DIMENSIONS SUPPLIED TO THE CONTRACTOR.

AT NOISY WORK, WORK OUTSIDE CONSTRUCTION BARRIERS, WORK IN OCCUPIED AREAS, ETC. SHALL BE PERFORMED AFTER HOURS OR ON WEEKENDS. COORDINATE EXACT SCHEDULING WITH FACILITY PRIOR TO CONSTRUCTION.
 AU ALL ITEMS HAVING KEYED LOCKS/OPERATORS SHALL HAVE CORED LOCKS/OPERATORS. ALL KEYING SHALL MATCH THE OWNER'S

ALL ITEMS HAVING KETED LOCKS/OFERATORS SHALL HAVE CORED EDCRS/OFERATORS. ALL RETING SHALL MATCH THE OWNER'S EXISTING KEY-WAYS. COORDINATE EXACT REQUIREMENTS WITH OWNER PRIOR TO CONSTRUCTION.
 AV REFER TO ARCHITECTURAL PLANS FOR PHASING REQUIREMENTS. WORK SHALL BE COMPLETED IN PHASES PER THE PHASING PLAN AND AS COORDINATED WITH OWNER AND GENERAL CONTRACTOR. PROVIDE ALL REQUIRED INCREMENTAL INSPECTIONS, CERTIFICATIONS,

ETC. AND ALL TEMPORARY SERVICES AS REQUIRED BY OWNER TO ACCOMPLISH THE PHASING PLAN.

ELECTRICAL DEMOLITION NOTES

- A DOTTED LINES INDICATE ITEMS FOR REMOVAL (UON) AND SOLID HALFTONE LINES INDICATE EXISTING ITEMS TO REMAIN.
 B THE CONTRACTOR SHALL MAINTIN THE CONTINUITY OF EXISTING CIRCUITS THAT CONTAIN DEVICES OR EQUIPMENT THAT ARE TO REMAIN. WHEN DEMOLITION OF AN ELECTRICAL DEVICE (OR CIRCUIT) IS INDICATED ON THE DRAWINGS: THE CONTRACTOR SHALL ENSURE THAT OTHER DEVICES OR EQUIPMENT "UPSTREAM" OR "DOWNSTREAM" ON THE CIRCUITS SHALL REMAIN IN "PRE-DEMOLITION" WORKING ORDER. "LEFT-OVER" CIRCUIT BREAKERS SHALL REMAIN, BE SWITCHED TO OFF POSITION, AND BE LABELED AS SPARES IN THEIR PANELS. PROVIDE NEW TYPEWRITTEN DIRECTORIES FOR ALL PANELS AFFECTED.
 C LOCATIONS OF DEVICES, CONNECTIONS, ETC., INDICATED ON THIS DRAWING WERE TAKEN FROM VARIOUS SOURCES. THEY ARE
- DIAGRAMMATIC ONLY AND ARE SUBJECT TO VARIATION FROM EXISTING CONDITIONS. CERTAIN EXISTING ELEMENTS MAY NOT BE INDICATED AT ALL. THE CONTRACTOR PROPOSING TO DO ANY PART OF THE WORK INDICATED HEREON SHALL VISIT THIS SITE AND DETERMINE TO HIS SATISFACTION THAT THEY MAY COMPLETE ALL WORK REQUIRED FOR THE BID WHICH HE PROPOSES. D REMOVE ALL ASSOCIATED BACKBOXES, CONDUIT AND CONDUCTORS FOR DEVICES / FIXTURES / ETC. BEING REMOVED (BACK TO
- SOURCE), WHETHER INDICATED OR NOT (UON). CONTRACTOR SHALL PATCH AND REPAIR ANY EXISTING WALLS, FLOORS OR CEILINGS WHERE DEVICES ARE SHOWN TO BE REMOVED (PATCH AND REPAIR TO RECEIVE NEW FINISHES - SEE ARCHITECTURAL PLANS). COORDINATE DISPOSAL OF ALL FIXTURES, DEVICES, ETC. (INDICATED FOR DEMOLITION) WITH OWNER. TURN OVER ITEMS REMOVED TO OWNER AT THEIR OPTION.
- F COORDINATE WITH OTHER TRADES FOR THE REMOVAL AND/OR RELOCATION OF ELECTRICAL DEVICES AND CONNECTIONS ASSOCIATED WITH THEIR EQUIPMENT.
- G PROVIDE TEMPORARY EMERGENCY EXIT LIGHTS AT CONSTRUCTION BARRIERS AS REQUIRED.
 H CONTRACTOR SHALL PATCH AND REPAIR ALL EXISTING WALLS / CEILINGS AS REQUIRED WHERE DEVICES ARE BEING REMOVED OR INSTALLED.
- I UNUSED/ABANDONED CONDUCTORS DISCOVERED ABOVE ACCESSIBLE CEILINGS SHALL BE REMOVED IN ACCORDANCE WITH NEC REQUIREMENTS.
 J EXISTING ELECTRICAL SYSTEMS IN CONFLICT WITH CONSTRUCTION SHALL BE RELOCATED TO PERMIT INSTALLATION OF DEVICES AND
- EQUIPMENT SHOWN ON PLANS.
 K CONTRACTOR SHALL SEAL ALL EXISTING AND NEW PENETRATIONS OF BUILDING ENVELOPE (EXTERIOR WALLS, ROOF, ETC.)
 WATER-TIGHT AND AS APPROVED BY ARCHITECT AND ENGINEER. ROOFING SHALL BE RESTORED BY A LICENSED ROOFING CONTRACTOR
- BASED ON WRITTEN INSTRUCTIONS AND DETAILS FROM ROOFING MANUFACTURER AS REQUIRED TO MAINTAIN ROOF WARRANTY. REFER TO ARCHITECTURAL AND ENGINEERING PLANS AND SPECIFICATIONS FOR FURTHER REQUIREMENTS. L DEVICES INDICATED WITH AN "R" SHALL BE RELOCATED. REMOVE, PROTECT, AND REINSTALL IN NEW LOCATION INDICATED ON NEW
- WORK PLANS. INTERCEPT AND EXTEND ALL EXISTING CABLING TO NEW LOCATION. CLEAN AND RE-LAMP RELOCATED LUMINAIRES.
 M ALL EXISTING PANELS AFFECTED BY THIS CONTRACTOR'S WORK SHALL BE PROVIDED WITH NEW TYPE-WRITTEN PANEL DIRECTORIES AND INSERT SLEEVES. PANEL DIRECTORIES SHALL NOT USE ROOM NAMES OR NUMBERS FROM THESE DRAWINGS. DIRECTORIES SHALL BE DETAILED AND COORDINATED WITH OWNER'S SUITE NUMBERS, FINAL ROOM NUMBERS, IT RACK NAMES, WORKSTATION DESIGNATIONS, ETC. UNUSED BREAKERS SHALL BE IN OFF POSITION.
- N CONTRACTOR TO VERIFY THAT THERE ARE NO ELECTRICAL CIRCUITS IN CHASES BEING REMOVED UNDER DEMOLITION WHICH REMAIN IN SERVICE AND CANNOT BE REMOVED. SHOULD SUCH CIRCUITS BE ENCOUNTERED, THE CONTRACTOR IS TO REROUTE AND RECONNECT AS REQUIRED TO MAINTAIN SERVICE.





	PANEL: EX PANEL VOLTAGE: 120/240V.1P.3W	. 1				MAIN	IS TYP SPI	E: MCE D:	3			PANE	L IN	TERRU	JPTING RATING: <en LOCATION: Spa</en 	IGINEER TO SPECIFY> ce 1	
	AMPERES: 200 A					MO	UNTIN	G: SUR	RFACE						SUPPLY FROM:		
NOTE	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	Р	СКТ		4		3		2	СКТ	Ρ	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	N
	COUNTER TOP OUTLETS		20	1	1	0.0	0.0					2	1	20		OUTSIDE LIGHTS	
	LIGHTS DOWN		20	1	3			0.0	0.0			4	1	20		RECPT UNDER	
	OUTSIDE LIGHT		20	1	5					0.0	0.0	6	1	20		RECPT UPSTAIRS WIN	
	NE RECPT		20	1	7	0.0	0.0					8	1	20		UPSTAIRS LIGHTS	
	RANGE		20	2	9 11			0.0	0.0	0.0	0.0	10 12	2	20		NE POLE LT	
	EH-1 RM 101	2-#10, 1-#10, 1-#10	30	2	13 15	1.5	0.0	1.5	0.0			14 16	2	20		NW POLE LT	
				_	17					0.0	0.0	18	1	40	1-#8, 1-#8, 1-#10	WH-1 RM 100	
	EH-1 EM 102	2-#10, 1-#10, 1-#10	30	2	19	1.5	0.0					20				SPACE	
	EF-2 RM 101	1-#12, 1-#12, 1-#12	15	1	21			0.0	0.0			22	1	20		SPARE	
	SPACE				23					0.0	0.0	24	1	20		SPARE	
	SPARE		20	1	25	0.0	0.0					26	1	20		SPARE	
	SPARE		20	1	27			0.0	0.0			28	1	20		SPARE	
	SPARE		20	1	29					0.0	0.0	30	1	20		SPARE	
						6.2	kVA	3.0	kVA	0.0	kVA A						
				DE	MANE										DANE		
EONIC	CLASSIFICATION		AD		100	000/		LOTIN	0170						FANL		0 \/A
EQUIP		91/9 VA			100	.00%			9179	VA						TOTAL CONNECTED LOAD: 917	9 VA
																DIAL ESTIMATED DEMAND: 917	9 VA
															101	AL CONNECTED CURRENT: 38 /	4
															TOTAL ESTIN	MATED DEMAND CURRENT: 38 /	4
															25	% ADDITIONAL CAPACITY: 10 /	4
																TOTAL PANEL CURRENT: 48 /	Ą

PANELBOARD AND WIRING SCHEDULE

	PANEL: EX PANEL	2				MAIN	IS TYP	E: MCE	3			PANE	L IN	TERRU	PTING RATING: <en< th=""></en<>
	VOLTAGE: 120/240V,1P,3W						SP	D:							LOCATION: Spa
	AMPERES: 200 A					MO	UNTIN	G: SUF	RFACE						SUPPLY FROM:
NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	Ρ	СКТ		A		В	(C	СКТ	Ρ	OCP	HOT, NEUT, GND
	SPARE		20	2	1	0.0	0.0	0.0	0.0			2	1	20 20	
	POLE LT		20	1	5					0.0	0.0	6	1	20	
	SOUTH WEST		20	1	7	0.0	0.0					8	1	20	
	POLE LT		20	1	9			0.0	0.0			10	1	20	
	SOUTH EAST		20	1	11					0.0	0.0	12	1	20	
	RECPT OUTSIDE		20	1	13	0.0	0.0					14	1	20	
	RECPT OIUTSIDE		20	1	15			0.0	0.0			16	1	20	
	ELECTRIC HAND DRYER WOMEN	1-#12, 1-#12, 1-#12	20	1	17					0.0	0.0	18	1	20	
	PRESSBOX DRINKING FOUNTAINS	1-#12, 1-#12, 1-#12	20	1	19	0.0	0.0					20	1	20	1-#12, 1-#12, 1-#12
	REC PRESSBOX RESTROOMS	1-#12, 1-#12, 1-#12	20	1	21			0.0	0.0			22	1	20	1-#12, 1-#12, 1-#12
	EF-1 RM 102	1-#12, 1-#12, 1-#12	15	1	23					0.0	0.0	24	1	20	
	SPARE		20	1	25	0.0	0.0					26	1	20	
	SPARE		20	1	27			0.0	0.0			28	1	20	
	SPARE		20	1	29					0.0	0.0	30	1	20	
						2.0	kVA	1.8	kVA	0.0	kVA				
						17	7 A	15	δA	0	А				
LOAD CLASSIFICATION CONNECTED LOAD			AD	DEMAND FACTOR ESTIMAT					MATED	DEMA	ND	PAN			
EQUIP		3079 VA			100	.00%			3079	VA					
LTNG		201 VA			100	.00%			201 \	/A					Т
REC		540 VA			100	.00%			540 \	/A					TOT
-															TOTAL FSTI
															2
															Z\

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.



CIRCUIT DESCRIPTION NOTES

MAXIMUM WATTAGE	VOLTAGE	REMARKS
32	120	
73	120	













A REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT

B CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER N.E.C. #310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER N.E.C. #300.17 AND ANNEX C. MULTIWIRE BRANCH CIRCUITS AS DEFINED IN N.E.C #100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE

IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL CONSTRUCTION. PROVIDE CLEAR ADHESIVE LABELS WITH BLACK LETTERING. IN HEALTHCARE FACILITIES, ENGRAVE EMERGENCY DEVICE COVERPLATES IN PATIENT CARE AREAS. ALSO, MARK INSIDES OF ALL DEVICE BOXES WITH PANEL AND CIRCUIT NUMBER. MECHANICAL ROOMS TO AVOID DUCTWORK AND AROUND EQUIPMENT, AIR HANDLERS, ETC. TO PROVIDE ADEQUATE LIGHTING TO ALL AREAS OF ROOM. PROVIDE ADDITIONAL FIXTURES OF SAME TYPE AS NEEDED TO

E LOCATE EXIT SIGNS FOR MAXIMUM VIEWING AREA TO IDENTIFY EGRESS PATHS AS INDICATED ON PLANS. COORDINATE LOCATIONS SUCH THAT ARCHITECTURAL FEATURES OR EQUIPMENT FROM OTHER TRADES DO

F LUMINAIRES INDICATED WITH MULTI-LEVEL SWITCHING SHALL HAVE SIMILAR LAMPS CONTROLLED TOGETHER, I.E. INBOARD AND OUTBOARD LAMPS OR RIGHT AND

DOWNLIGHTING ALZAK CONES AND "PARACUBE" LOUVERS SHALL BE HANDLED WITH COTTON GLOVES DURING INSTALLATION AND LAMPING TO AVOID FINGERPRINTS OR DIRT DEPOSITS. IT IS PREFERRED THAT FIXTURES BE SHIPPED AND INSTALLED WITH CLEAR PLASTIC BAGS TO PROTECT LOUVERS. AT CLOSE OF PROJECT, AND AFTER CONSTRUCTION AIR FILTERS ARE CHANGED, REMOVE BAGS. ANY LOUVER OR CONE SHOWING DIRT OR FINGER PRINTS SHALL BE CLEANED MANUFACTURER, OR REPLACED AS NECESSARY IN

H RECESSED LUMINAIRES SHALL BE SECURED SUCH THAT THE FORCE REQUIRED INSERTING LAMPS, TRIMS, LENSES, LOUVERS, OR DOOR FRAMES DOES NOT SHIFT HOUSING. ALL TRIMS SHALL BE COMPLETELY FLUSH

CONDUCTOR TO ALL EXIT SIGNS, EMERGENCY INVERTER BATTERY PACKS, AND NIGHT LIGHTS AS REQUIRED.

ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED

MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RAN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER NEC 310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER NEC 300.17 AND ANNEX C. MULTIWIRE BRANCH CIRCUITS AS DEFINED IN NEC 100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL

IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL CONSTRUCTION. PROVIDE CLEAR ADHESIVE LABELS WITH BLACK LETTERING. IN HEALTHCARE FACILITIES, ENGRAVE EMERGENCY DEVICE COVERPLATES IN PATIENT CARE AREAS. MARK INSIDES OF ALL DEVICE BOXES WITH

AUTOMATIC MEANS SUCH AS OCCUPANCY SENSOR OR ENERGY MANAGEMENT SYSTEM SHALL BE MARKED IN

DISCONNECTS SHALL BE COORDINATED WITH MECHANICAL AND PLUMBING CONTRACTORS TO ENSURE ACCESS AND WORKING CLEARANCE IS MAINTAINED PER NEC. NOTIFY OTHER TRADES OF REQUIRED CLEARANCE AREAS TO AVOID ROUTING OF OTHER SYSTEMS IN EQUIPMENT OVER EQUIPMENT NAMEPLATES OR ACCESS

A REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED

LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RAN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER NEC 310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER NEC 300.17 AND ANNEX C. MULTIWIRE BRANCH CIRCUITS AS DEFINED IN NEC 100 / IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL

WITH BLACK LETTERING. IN HEALTHCARE FACILITIES, ENGRAVE EMERGENCY DEVICE COVERPLATES IN PATIENT CARE AREAS. MARK INSIDES OF ALL DEVICE BOXES WITH

CONTRACTOR REQUIREMENTS OF EACH SYSTEM. E THE CONTRACTOR SHALL ROUTE ALL "SYSTEM CONDUIT STUB-UPS" TO THE NEAREST CORRIDOR CABLING PATH (SEE "STUB-UP" DETAILS). REFER TO CABLING PATH

CONTRACTOR SHALL PAINT ALL SYSTEMS CONDUIT STUB-UPS LIGHT BLUE FOR SYSTEMS CABLING INTO THE CORRIDOR CABLING PATH. PROVIDE PULL STRINGS IN ALL NEW CONDUIT RUNS FOR SYSTEM CABLING

E1 DEDICATED CIRCUIT FOR WATER FOUNTAINS. PROVIDE A GFCI BREAKER FOR THIS CIRCUIT. E2 ELECTRICAL CONNECTION FOR ELECTRIC HAND

IN THE SPACE. FANS SHALL OPERATE WHEN E4 INTERCEPT EXISTING RECEPTACLE CIRCUIT TO E5 INTERCEPT EXISTING RECEPTACLE CIRCUIT TO ED1 DEMOLISH EXISTING DUPLEX RECEPTACLE.

> RECEPTACLE. REPLACE WITH A QUADRUPLEX GFI MOUNTED IN THE SAME LOCATION. PHOTOCELL AND SHALL NOT BE SWITCHED.



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