

GENERAL:

- A. THESE GENERAL NOTES PRESENT AND/OR SUMMARIZE KEY PROJECT INFORMATION FOR THE READER'S CONVENIENCE. SEE ALSO INDIVIDUAL PLAN NOTES FOR FURTHER DETAILS AND REQUIREMENTS.
- B. ALL REFERENCES TO REFERENCE STANDARDS HEREIN ARE TO THE MOST RECENT ISSUE IN EFFECT AS OF THE DATE OF THESE DOCUMENTS, UNLESS NOTED OTHERWISE ON THE PLANS.
- C. ALL ELEVATIONS ARE REFERENCED TO FINISHED FLOOR EL. 100'-0". ALL ELEVATIONS SHOWN ON PLANS ARE REFERENCED TO THE SITE ELEVATION DATUM SHOWN ON FOUNDATION PLANS UNLESS NOTED OTHERWISE.
- D. SUBMIT SHOP DRAWINGS, PROJECT DATA, AND SAMPLES FOR ITEMS ON THE PLANS.
 - 1. IDENTIFY PROMINENTLY ON DRAWINGS EACH AND ALL RESUBMITTALS BY NUMBER.
 - 2. IDENTIFY ANY CHANGES WHICH HAVE BEEN MADE OTHER THAN THOSE REQUESTED BY THE ENGINEER.
 - 3. SUBMITTALS FAILING TO CONFORM TO THE ABOVE WILL BE RETURNED FOR RESUBMITTAL.
- E. CONTRACTOR SHALL BRACE ENTIRE STRUCTURE(S) AS REQUIRED TO MAINTAIN STABILITY UNTIL COMPLETE AND FUNCTIONING AS THE DESIGN UNIT. IN ACCORDANCE WITH THE GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THE REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
- F. IN ACCORDANCE WITH THE GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THE REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
- G. ANY INFORMATION OR DATA ON THESE DRAWINGS IS NOT INTENDED TO BE SUITABLE FOR REUSE BY ANY PERSON, FIRM OR CORPORATION OR ANY OTHERS ON EXTENSIONS OF THE PROJECT OR FOR ANY USE ON ANY OTHER PROJECT. ANY REUSE WITHOUT WRITTEN VERIFICATION AND ADAPTATION BY THE ENGINEER FOR THE SPECIFIC PURPOSE INTENDED WILL BE AT THE USERS SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO THE ENGINEER.
- H. UNLESS OTHERWISE SPECIFIED, ALL MATERIALS SHALL BE NEW AND BOTH WORKMANSHIP AND MATERIALS SHALL BE OF PREMIUM QUALITY, PROPER AND SUFFICIENT FOR THE PURPOSE CONTEMPLATED. THE CONTRACTOR SHALL FURNISH, IF SO REQUIRED, SATISFACTORY EVIDENCE AS TO TYPE AND QUALITY OF MATERIALS AND WORKMANSHIP.
- I. ALL ITEMS OF EQUIPMENT AND/OR MATERIAL PROPOSED BY THE CONTRACTOR FOR SUBSTITUTIONS MUST BE APPROVED BY THE ENGINEER IN WRITING AND SHALL BE EQUAL OR SUPERIOR TO THE ITEMS SPECIFIED IN THE CONTRACT DOCUMENTS. IF SAID SUBSTITUTION PROPOSED BY THE CONTRACTOR FOR A SPECIFIED ITEM REQUIRES ENGINEERING REVISIONS, THE TOTAL EXPENSE OF SAID REVISIONS SHALL BE PAID BY THE CONTRACTOR.
- J. ANY ITEMS OF LABOR AND MATERIALS REQUIRED BUT NOT SHOWN AS A SEPARATE PAY ITEM IN THE PROPOSAL SHALL BE FURNISHED AND INSTALLED AS INCIDENTAL TO THE CONTRACT, EXCEPT AS NOTED IN THE PLANS AND SPECIFICATIONS.

CODE COMPLIANCE SUMMARY

PROJECT SHALL BE CONSTRUCTED PER THE 2018 KENTUCKY BUILDING CODE (BASED ON THE 2015 IBC) EFFECTIVE 1/1/2019, AND APPLICABLE MECHANICAL, ELECTRICAL, AND PLUMBING CODES IN EFFECT.

PROJECT DESCRIPTION:
THE PROPOSED FACILITY INCLUDES AN OPEN PICNIC SHELTER

CONSTRUCTION TYPE:
VB - UNPROTECTED; COMBUSTIBLE

MEANS OF EGRESS:
OCCUPANT LOAD (TABLE 1004.12)
SHELTER: 15 SF/PERSON = 86

BUILDING AREA:
OPEN SHELTER: 1,287 SF

BUILDING HEIGHT:
SHELTER: (AVE)

MATERIALS AND SPECIFICATIONS

UNLESS OTHERWISE SPECIFIED, ALL MATERIALS SHALL BE NEW AND BOTH WORKMANSHIP AND MATERIALS SHALL BE OF PREMIUM QUALITY, PROPER AND SUFFICIENT FOR THE PURPOSE CONTEMPLATED. THE CONTRACTOR SHALL FURNISH, IF SO REQUIRED, SATISFACTORY EVIDENCE AS TO TYPE AND QUALITY OF MATERIALS AND WORKMANSHIP.

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REVIEW OF DRAINAGE FACILITIES

ALL NEW CONDUITS, INLETS, CATCH BASINS, AND MANHOLES CONSTRUCTED AS A PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER AND IN A CLEAN CONDITION BEFORE THE PROJECT WILL BE ACCEPTED BY THE CITY.

ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE-MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER.

EROSION AND DUST CONTROL

THE CONTRACTOR SHALL TAKE EXTREME CARE TO PREVENT UNNECESSARY EROSION AT ALL POINTS OF THE PROJECT. WATER AND CALCIUM CHLORIDE, HAVE BEEN INCLUDED. DUST SHALL BE KEPT TO A MINIMUM. ALL MATERIALS AND LABOR SHALL BE INCIDENTAL TO PROJECT

SAW CUTTING

NOTE: ALL EXISTING PAVEMENT, SIDEWALKS, CURB & GUTTER, ETC. SHALL BE SAW CUT BEFORE REMOVAL TO OBTAIN A UNIFORM EDGE. THE COST OF SAW CUTTING SHALL BE INCIDENTAL TO THE ASSOCIATED ITEM.

UTILITIES

UTILITIES DATA IS BASED UPON INFORMATION PROVIDED BY THE UTILITY AND HAS NOT BEEN VERIFIED BY THE ENGINEER. THE ENGINEER OR THE OWNER IS NOT RESPONSIBLE OR LIABLE FOR DATA SUPPLIED BY OTHERS.

WITHIN 10 DAYS OF THE AWARD OF THE CONTRACT, THE OWNER SHALL NOTIFY ALL UTILITIES OF THE NAME, ADDRESS AND PHONE NUMBER OF THE CONTRACTOR. THE CONTRACTOR SHALL NOTIFY THE REGISTERED UNDERGROUND UTILITY PROTECTION SERVICE AND NON-MEMBER OWNERS OF THE STARTING DATE AT LEAST TWO WORKING DAYS PRIOR TO STARTING WORK. THE UTILITY SHALL MARK, STAKE OR OTHERWISE DESIGNATE THE LOCATION OF THE UNDERGROUND FACILITIES WITHIN 48 HOURS OF RECEIVING THE CONTRACTORS NOTICE OF A STARTING DATE. THE MARKING OR LOCATING SHALL BE COORDINATED TO STAY APPROXIMATELY TWO DAYS AHEAD OF THE PLANNED CONSTRUCTION.

DURING CONSTRUCTION, THE CONTRACTOR SHALL REPORT IMMEDIATELY TO THE OWNERS OF THE UNDERGROUND FACILITIES AND THE ENGINEER ANY BREAK OR LEAK IN THE FACILITIES, OR ANY DENT, GOUGE, GROOVE OR OTHER DAMAGE. THE CONTRACTOR SHALL NOTIFY NEARBY OCCUPANTS OF ANY EMERGENCY SITUATION THAT MAY ARISE.

COORDINATION OF WORK SCHEDULES WITH AFFECTED UTILITIES WILL BE REQUIRED. UPON THE CONTRACT AWARD, THE COORDINATION OF ALL NECESSARY RELOCATIONS OR ADJUSTMENT OF ALL UTILITY FACILITIES BECOME THE RESPONSIBILITY OF HE CONTRACTOR.

RESPONSIBILITY

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM HIS WORK IN SUCH A MANNER AS NOT TO DAMAGE OR DESTROY ANY EXISTING FEATURE, (I.E. EXISTING INLETS, CONDUITS, ETC.) WHICH IS NOT MARKED FOR REPLACEMENT OR REMOVAL. IF ANY SUCH DAMAGE DOES OCCUR DUE TO THE OPERATIONS OF THE CONTRACTOR, HE SHALL REPLACE THE DAMAGED PORTION AT HIS EXPENSE.

THE CONTRACTOR SHALL EXERCISE DUE CARE DURING CONSTRUCTION SO AS NOT TO DESTROY ANY TREES, PLANTS, SHRUBS OR STRUCTURES OUTSIDE OF THE INDICATED WORK LIMITS AND THOSE NOT SPECIFICALLY MARKED FOR REMOVAL OR RELOCATION WITHIN THE WORK LIMITS. (SEE TREE PRESERVATION SPECIFICATIONS.)

IN SOME INSTANCES, THE CONTRACTOR WILL BE REQUIRED TO EXCAVATE UNDER AND AROUND THE EXISTING UTILITIES. EXTREME CARE SHOULD BE USED NOT TO DAMAGE THE UTILITY DURING THIS OPERATION.

WATER POLLUTION, SOIL EROSION AND STILATION CONTROL

THE CONTRACTOR SHALL TAKE EXTREME CARE TO PREVENT UNNECESSARY EROSION, WATER POLLUTION AND SILTATION CONTROL AT ALL POINTS OF THE PROJECT. TEMPORARY SEEDING AND MULCHING; STRAW BALES, SLOPE DRAINS, ETC., SHALL BE USED AS NECESSARY OR AS DIRECTED BY THE ENGINEER.

DESIGN CRITERIA:

A. GOVERNING CODES, REQUIREMENTS, DESIGN STANDARDS AND SPECIFICATIONS:

DESIGN CODE: 2018 KENTUCKY BUILDING CODE

DESIGN STANDARDS:

ASCE 7-16 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES

ACI 301 SPECIFICATIONS FOR STRUCTURAL CONCRETE

ACI 315 DETAILS AND DETAILING OF CONCRETE REINFORCEMENT

CRSI REINFORCING BAR DETAILING (MANUAL OF STANDARD PRACTICE)

NDS FOR WOOD CONSTRUCTION 2015

DESIGN SPECIFICATIONS FOR FOUNDATIONS AT TREATMENT PLANT BUILDING MASONRY WALLS AND STEEL COLUMNS:

ACI 318-14 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND COMMENTARY

B. STRUCTURAL DESIGN LOADS

1.	DEAD LOAD: SELF-WEIGHT SUPERIMPOSED DEAD LOAD ON ROOF (IN ADDITION TO PRECAST PLANKS)	35 PSF 5 PSF
2.	ROOF LIVE LOAD:	20 PSF
3.	ROOF SNOW LOADS: GROUND SNOW LOAD, P _g SNOW EXPOSURE FACTOR, C _e SNOW LOAD IMPORTANCE FACTOR, I THERMAL FACTOR, C _t (ROOFS OVER UNHEATED BUILDING) FLAT ROOF SNOW LOAD, P _f	20 PSF 1.0 1.0 1.2 16.8
4.	WIND LOADS: BASIC WIND SPEED (3 SEC. GUST) WIND EXPOSURE INTERNAL PRESSURE COEFFICIENT	115 MPH B 0.00
5.	EARTHQUAKE DESIGN DATA BUILDING OCCUPANCY CATEGORY: SEISMIC IMPORTANCE FACTOR, I S _s = S _i = S _{DS} = S _{D1} = SITE CLASS: SEISMIC DESIGN CATEGORY: BASIC SEISMIC FORCE RESISTING SYSTEMS: STEEL ORDINARY CANTILEVER COLUMN SYSTEM RESPONSE MODIFICATION COEFFICIENT, R SEISMIC COEFFICIENT, C _s =	II 1.00 0.146 0.078 0.097 0.052 B A 1.25 0.273

CONCRETE

ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE LATEST SPECIFICATIONS OF THE AMERICAN CONCRETE INSTITUTE AND THE CONCRETE REINFORCING STEEL INSTITUTE.

CONCRETE STRENGTHS AT 28 DAYS:
SPREAD FOOTINGS 3000 PSI
DRILLED PIERS 4000 PSI
WALLS & SIDEWALKS 4000 PSI
INTERIOR SLAB 4000 PSI

AT CORNERS AND INTERSECTIONS OF FOOTINGS AND WALLS, PROVIDE BENT BARS OF EQUAL SIZE AND AT SAME SPACING AS TYPICAL REINFORCING AROUND CORNER AND/OR INTO ABUTTING WALL. BARS SHALL HAVE EMBEDMENT OF 18 DIAMETERS (12" MINIMUM) PAST INSIDE EDGE OF CORNER.

WHERE CONCRETE IS PLACED DIRECTLY ON GROUND, REINFORCING STEEL SHALL HAVE 3" OF CONCRETE COVER. AT ALL OTHER PLACES, CONCRETE COVER TO BE A MIN. OF 1 1/2" UNLESS NOTED OTHERWISE.

ALL CONCRETE EXPOSED TO WEATHER SHALL BE AIR ENTRAINED.

REINFORCING STEEL : ASTM A615 OR A616, GRADE 60. MINIMUM LAP LENGTH - 48 DIAMETERS.

PROVIDE WWR 6 x 6 - W2.1 x W2.1 IN SLAB. CONTROL JOINTS IN SLABS ON GRAD SHALL BE @ MAX 12' O.C. AND SHALL BE SPACED WITH MAX 2:1 ASPECT RATIO.

FOUNDATIONS

ALL SOIL BEARING SURFACES SHALL BE LEVEL (WITHIN 1/4" IN 12).

FOOTING ELEVATIONS SHOWN ARE FOR BIDDING PURPOSES AND MAY VARY TO SUIT SUB-SURFACE SOIL CONDITIONS. THE ACTUAL BOTTOM ELEVATION OF EACH FOOTING SHOULD BE DETERMINED IN THE FIELD DURING CONSTRUCTION, THROUGH INSPECTION BY A GEOTECHNICAL TECHNICIAN.

CONCRETE SHALL BE PLACED IMMEDIATELY AFTER INSPECTOR'S APPROVAL OF BOTTOM STRATA AND POURED CONTINUOUSLY UNTIL COMPLETE. ALL LOOSE AND SOFT MATERIAL MUST BE REMOVED FROM HOLE PRIOR TO PLACING CONCRETE.

POURING TRUNK, CHUTE OR PUMP HOSE SHALL BE USED WHERE FREE FALL OF CONCRETE IS GREATER THAN 8'-0".

THE OWNER SHALL HAVE A GEOTECHNICAL ENGINEER VERIFY ALL BEARING STRATA BEFORE FOOTINGS ARE POURED.

STEEL

ALL STRUCTURAL STEEL FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE AISC SPECIFICATIONS FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS AND THE AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES.

ALL STRUCTURAL STEEL SHALL BE GALVINIZED AND PAINTED WHERE EXPOSED.

STRUCTURAL STEEL - WF - ASTM A992; PLATES - ASTM A36; TUBE - ASTM A500, GRADE B Fy =46 KSI; PIPE - ASTM A53, GRADE B Fy=35 KSI.

ALL BOLTS, NUTS AND WASHERS SHALL BE ASTM A325-N UNLESS NOTED OTHERWISE.

SPlicing OF STRUCTURAL STEEL IS PROHIBITED EXCEPT AS DETAILED.

WELDING ELECTRODES AWS. ASTM E-70XX.

ALL WELDING SHALL BE DONE BY A QUALIFIED WELDER IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE.

LUMBER

BEAMS AND POSTS (TIMBERS)
No. 2 SOUTHERN PINE
E = 1,500,000 PSI

GLUED LAMINATED BEAMS
SOUTHERN PINE
E = 1,800,000 PSI 24F-V3

PLYWOOD ROOF SHEATHING
APA No. 1 STRUCTURAL GRADE

WHEN PROPRIETARY CONNECTION DEVICES ARE SPECIFIED, CONTRACTOR SHALL READ, UNDERSTAND AND FOLLOW MANUFACTURERS REQUIREMENTS FOR FASTENER TYPE, SIZE, GRADE, NUMBER OF FASTENERS, FINISH OF FASTENERS, CONNECTOR INSTALLATION REQUIREMENTS, ETC.

MASONRY

CONCRETE BLOCK UNITS: UNIT COMPRESSIVE STRENGTH SHALL BE NO LESS THAN 2150 PSI ASSEMBLY COMPRESSIVE STRENGTH (F_m) SHALL BE NO LESS THAN 1500 PSI

REINFORCING TO BE LOCATED IN EXACT CENTER OF BLOCKS. USE VERTICAL BAR POSITIONER FOR PLACEMENT.

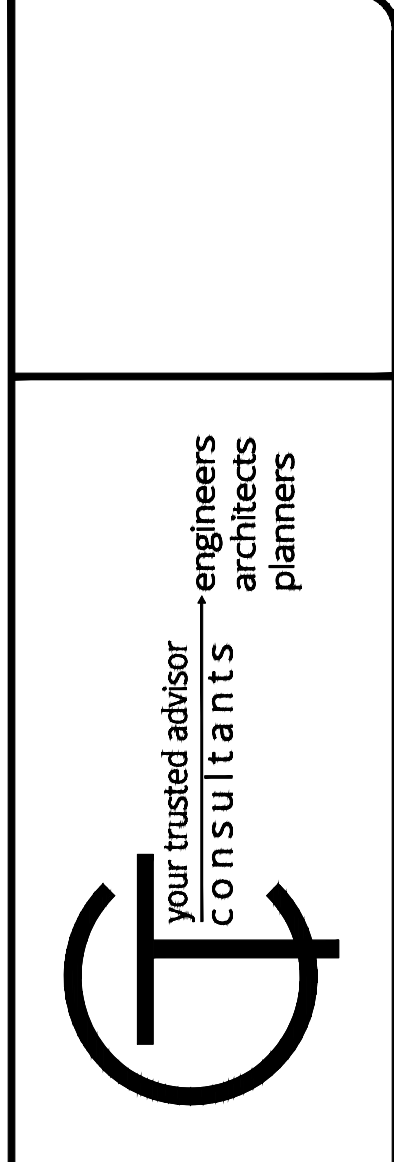
ALL VERTICAL WALL REINFORCEMENT TO HAVE CONTACT SPLICES - WIRED TOGETHER WITH MIN. 40 BAR DIAMETERS LAP OR FULL STRENGTH WELDS OR MECHANICALLY COUPLED

PROVIDE DURA-O-WALL (OR APPROVED EQUAL) JOINT REINF. AT 16" O.C. MEASURED VERTICALLY IN ALL MASONRY WALLS UNLESS NOTED OTHERWISE ON DRWGS.

UNDER INTELTS, BEARING PLATES, BEAMS, ETC. FILL CELLS WITH CONCRETE OR GROUT FOR A MINIMUM OF THREE COURSES BELOW BEARING.

VERTICAL REINFORCEMENT:
ALL EXTERIOR MASONRY WALLS TO HAVE MINIMUM VERTICAL REINFORCEMENT OF #5 BARS AT 4'-0" O.C. (U.N.O.). #5 BARS SHALL ALSO BE PROVIDED AT CORNERS, WITHIN 8" OF EACH SIDE OF OPENINGS, WITHIN 8" OF EACH SIDE OF MOVEMENT JOINTS, AND WITHIN 8" OF THE ENDS OF WALLS.

HORIZONTAL REINFORCEMENT:
ALL EXTERIOR MASONRY WALLS SHALL HAVE HORIZONTAL REINFORCEMENT CONSISTING OF AT LEAST TWO WIRES OF W1.7 SPACED NOT MORE THAN 16" APART; AND 2 #5 BOND BEAM REINFORCEMENT SHALL BE PROVIDED AT TOP OF WALLS AND OVER MASONRY OPENINGS. HORIZONTAL JOINT REINFORCEMENT SHALL ALSO BE PROVIDED AT THE BOTTOM AND TOP OF WALL OPENINGS (EXTENDING NOT LESS THAN 24" NOR LESS THAN 40 BAR DIAMETERS PAST THE OPENINGS), CONTINUOUSLY AT ROOF LEVEL, AND WITHIN 16" OF THE TOP OF WALLS.



DATE	REVISION	NO
07/30/19	95% OWNER REVIEW	1
08/07/19	ISSUED FOR PERMIT	2
09/26/19	ISSUED FOR REBID	3

ISSUED FOR:	ISSUE DATE:	SCALE:	DESIGNED BY:	DRAWN BY:	CHECKED BY:
08/07/2019	AS SHOWN	PPER	JLAM	PPER	

TOWER PARK SHELTER #3
CITY OF FORT THOMAS
- CAMPBELL COUNTY, KENTUCKY -

GENERAL NOTES

PROJECT NO.	190571
DISCIPLINE	GENERAL
SHEET NUMBER	G2