OCTOBER 26, 2023 Architectural Project #2214 REA PARK CLUBHOUSE RENOVATION & ADDITIONS

#### ADDENDUM NO. 2

PROJECT: Rea Park Clubhouse Renovation and Additions The City of Terre Haute – Board of Public Works

#### THIS LETTER CONSTITUTES ADDENDUM NO.2

The information contained in this Addendum shall become a part of the basic plans and specifications, the same as is originally incorporated therein. The original plans and specifications shall remain in their entirety, except as modified by the Addendum. The items herein shall supersede information in each of the specifications and plans.

The proposed contract documents for this work are modified as follows:

ltem #1	Revised structural schedules and additional structural details have been added to Sheet S2.0. Structural notes have been moved to Sheet F2.0. (See revised <b>Sheets F2.0 And S2.0</b> )
ltem #2	Section 11400 – Food Service Equipment has been added to the Specifications. (See attached <b>Section 11400</b> )
ltem #3	Lead Paint and Asbestos Testing has been performed for the building. (See attached <b>testing reports</b> .)
ltem #4	There is not a Geotech report or soil borings for the project. Typically, the soil type in the area is "Ade". Excess soils/topsoil can be stored on-site on the west side of the parking area during the duration of the construction.
ltem #5	Existing 3-phase electrical service for golf course irrigation is to be relocated underground. ( <i>Currently overhead and located on the south side of the</i> <i>Clubhouse - Irrigation electrical service is to remain separate from the Clubhouse</i> <i>electrical service.</i> )
ltem #6	Asphalt pavement detail on Sheet SP-2 has been revised. (See revised Sheet SP-2)
ltem #7	New site plan has been revised on Sheet SP-2 to indicate stopping the french drain short of the existing tree. (See revised <b>Sheet SP-2</b> )
ltem #8	No erosion control measures are required for the project.

- Item #9 The French drain piping shall be 8" diameter HDPE, singlewall perforated pipe. The underground downspout drainage piping shall be 6" diameter solid PVC/SDR pipe. Connections shall be Schedule 40 PVC or Fernco adapters. (See detail on Sheet SP-2)
- Item #10 Contractor to provide 4X8 project job sign. (See detail on Sheet SP-1)
- Item #11 2 downspouts have been relocated to the north and south sides of the building. A detail regarding the downspout boot/sleeve through the Terrace structure has been added to Sheet A-5 (See revised **Sheet A-5**)
- Item #12 Downspout drainage has been added to the Basement Plumbing Plan. (See revised **Sheets P0.1 and P1.1**)
- Item #13 Contractor is responsible for all temporary shoring, bracing and other temporary construction necessary to ensure that the structural integrity of the existing structure is maintained during construction activities. Note has been added to Demolition Sheets. (See revised **Sheets D-0 thru D-4**)

# REA PARK CLUBHOUSE RENOVATIONS 1115 E DAVIS DRIVE, TERRE HAUTE, IN 47802



# CITY OF TERRE HAUTE MAYOR - DUKE BENNETT



PARKS & RECREATION DEPARTMENT SUPERINTENDENT - EDDIE BIRD BOARD PRESIDENT - GORDON BRYAN



ARCHITECT: SANDERS & ASSOCIATES, INC. DANIEL SANDERS, AIA



M/E/P ENGINEER: BOYT ENGINEERING BENJAMIN BOYT, PE, MSME, MBA, CHC, LEED AP BD+C



FRIENDS OF REA PARK PRESIDENT - DR. MIKE HARDING VICE PRESIDENT - EARL ELLIOTT



STRUCTURAL ENGINEER: BRYANT ENGINEERING & CONSULTING, INC. GRANT BRYANT, PE, MCE Rea Park Add #2

	ARCHIT	ECTURA	L:		SYMBOLS	REV	/ISIONS
T-1 7		A-2.3 DOOR/WIND	OW SCHEDULES	4 b	CONCRETE	NO.	DATE
SP-1 E	EXISTING/DEMO SITE PLAN	A-2.4 DOOR HARE	WARE SCHEDULE	KXX		2	10.26.2023
SP-3 F		A-2.6 INTERIOR D	OOR DETAILS		CONCRETE BLOCK		
SP-4 S	STAIRWAY DETAILS	A-2.7 WINDOW DE	ETAILS		BRICK		
LS-1 L	LIFE SAFETY PLAN	A-3.1 NEW ELEVA	TIONS		WOOD CROSS SECTION		
D-0 [		A-4.1 BUILDING SI					
D-1 [		A-4.3 SECTION DE	ETAILS		WOOD	and the search	E. SANORAL
D-3 [		A-5 ROOF PLAN	/DETAILS 🍌	777			N 3964
D-4 [	DEMO ROOF PLAN 🍌	A-6.1 INTERIOR F	INISH PLAN & SCHED	JLE	STEEL		stra et / /.
A-1 N	NEW FOUNDATION PLAN	A-6.2 INTERIOR E	CEILING PLANS		RIGID INSULATION		MAS (SA)
A-2.1 N	NEW BASEMENT PLAN	A-7.2 PRO-SHOP	& RESTROOMS			Daniel	2. Sanders
A-2.2 N	NEW 1ST FLOOR PLAN	A-7.3 KITCHEN & I	BAR		BATTINSULATION		
<u> </u>					GRAVEL FILL	D. SA	
	STRUC	L FURAL:				A	J/DC
F1.0 F	FOUNDATION PLAN	S1.0 STRUCTURA	AL FRAMING PLAN		EARTH		
F2.0 F	FDN SCHEDULES & DETAILS A	S2.0 STRUCT SC	HEDULES & DETAILS	2 01	DOORS	D. 3A	INDERS
				(A2)	WINDOWS		
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				<i></i>	REINFORCING BLOCKING IN WALLS 2 X 6'S OR LARGER		
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E0.1 E		E5.1 ELECTRICAL	L PANEL SCHEDULES		ET NO. NIL NO.		
E1.2 1	1ST FLOOR ELECTRICAL PLAN	LJ.Z LIGHTING S	CHEDULE	A-1 SHE	DETAIL		
E1.3 E	BASEMENT LIGHTING PLAN	FA1.1 FIRE ALARM	/ BASEMENT	1 SEC	TION NUMBER		<u>ז</u> <u>ה</u>
E1.4 1	1ST FLOOR LIGHTING PLAN	FA1.2 FIRE ALARM	I 1ST FLOOR	A-1 SHE	ET WHERE SECTION CAN BE FOUND	8	
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P0.1 PI	LUMBING SCHEDULE & DETAILS	P2.0 SANITARY 8	GAS ISOMETRICS	3	ELEVATION LINE		nd A H STRE INDIAN/ 232-52
P1.1 B/	ASEMENT PLUMBING PLAN 🔗	P2.1 WATER ISO	METRIC	$\mathbf{\Psi}$			СГЗ ДІ 1714 771 АUTE, 812) 2
P1.2 15	ST FLOOR PLUMBING PLAN			$\overline{1}$	REVISIONS	<u>()</u>	aunde Do sol Ferre H
ARCH	ITECTURAL NOTES						
AND SUF APPLICA TO THE 2. DIME DIMENSI 3. THE PUBLICS CONNECT 4. THE BEGINNI 5. ALL D PROJEC INC. ALL FOR PRO DRAWIN PROJEC 6. THE D PROJEC AND MA PROJEC AND MA PROJEC AND MA PROJEC AND MA PROJEC AND MA PROJEC AND MA PROJEC AND MA	AND SUB CONTRACTORS SHALL PERFORM THEIR WORK IN SUCH A MANNER AS TO BE IN COMPLIANCE WITH ALL APPLICABLE RULES AND SHALL BRING ANY DISCREPANCIES OR CONFLICTS TO ANY RULES, PLANS, OR SPECIFICATIONS TO THE ATTENTION OF THE ARCHITECT.  2. DIMENSIONS ARE FROM FACE OF MASONRY OR STUDS TO THE FACE OF MASONRY OR STUDS. USE THE STRUCTURAL DIMENSIONS WHERE POSSIBLE. DO NOT SCALE THE DRAWINGS.  3. THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH ALL STATE AND LOCAL CODES AND THE PROTECTION OF PUBLIC STRUCTURES AND RIGHT OF WAYS. THE CONTRACTOR SHALL ALSO OBTAIN ALL LOCAL CONSTRUCTION & CONNECTION PERMITS THAT MAY BE REQUIRED FOR THE WORK.  4. THE CONTRACTOR IS TO VERIFY AND CHECK ALL DIMENSIONS, THE DRAWINGS AND SPECIFICATIONS BEFORE BEGINNING ANY WORK, ANY DISCREPANCIES OR ERRORS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.  5. ALL DRAWINGS, SPECIFICATIONS AND INFORMATION PREPARED BY SANDERS & ASSOCIATES, INC. (S&A, INC.) FOR THIS PROJECT ARE INSTRUMENTS OF SERVICE TO BE USED ONLY ON THIS PROJECT UNLESS OTHERMISE AUTHORIZED BY SAN, INC. CALL COMMON LAW, STATUTORY, COPYRIGHTS, AND OTHER RESERVED RIGHTS ARE TO BE RETAINED BY SAA, INC. FOR PROJECT ARE INSTRUMENTS OF SERVICE TO BE USED ONLY ON THIS PROJECT OWNER MAY RETAIN COPIES OF SAA, INC. FOR PROJECT OSIGN AND AS AUTHOR OF THESE DOCUMENTS. THE PROJECT OWNER MAY RETAIN COPIES OF SAA, INC. FOR PROJECT ON EDGIN AND AS AUTHOR OF THESE DOCUMENTS. THE PROJECT OWNER MAY RETAIN COPIES OF SAA, INC. ALL COMMON LAW, STATUTORY, COPYRIGHTS, AND OTHER SFOR OTHER PROJECTS, FOR COMPLETION OF THE PROJECT.  6. THE DOCUMENTS SHALL NOT BE USED BY THE OWNER OR OTHERS FOR OTHER PROJECTS, FOR COMPLETION OF THIS PROJECT UNLESS APPROVED BY SAA, INC. CONTRACTORS, AND MATERIAL AND EQUIPMENT SUPPLIERS ARE GRANTED A LIMITED LICENSE TO USE AND REPRODUCE APPLICABLE PORTIONS OF THE DOCUMENTS THERPROFECTION OF THEIR WORK IN CONNECTION WITH THIS PROJECT.  7. THESE PLANS ARE COPYRIGHTED AND ARE SUBJECT TO COPYRIGHT PROTECTION AS AN "ARCHITECTURAL WORK" INDER SUCH PROTECTION ACTOR FRANGEMENT AND C						
<u>A33001/</u>	BUILD	ING CO	DE SUMI	MAR	Y	 Д	NUMBER 214
2012 IN	NTERNATIONAL BUILDING COD	E, AS AMENDED	FIRE & SMOKE ALA	ARM SYST	EM TO MEET CURRENT	00/	
BY THE	E STATE OF INDIANA (APPLICA	BLE RULES ONLY)	STANDARDS PER BUILDING WILL BF	NFPA FULLY SF	PRINKLERED PER SECTION		
BUILD	ING TYPE: V-A (COMBUSTIBLE	BAR/RESTAURANT	903.2.1.2 GROUP A	A-2: AN AU	TOMATIC SPRINKLER D FOR GROUP A-2	TITLE SH	IEET & INDEX
SIZE: 8	5,350 SQFT EXISTING - RENOV	ATED	OCCUPANCIES WE CONDITIONS EXIS	HERE ONE	OF THE FOLLOWING	S	HEET
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MODIF	FICATIONS	- <u>-</u> .	THAN THE LI SUCH OCCU	EVEL OF E PANCIES.	XIT DISCHARGE SERVING		



# **CONSTRUCTION NOTES:**

**REPLACEMENT PAVEMENT AREA NOTED ON SP-2.** AND IRRIGATION SYSTEM).

- INDICATED.
- PROJECT SCOPE.



\*NOTE: THIS DRAWING IS NOT INTENDED AS A LEGAL SURVEY

Rea Park Add #2





#### LANDSCAPE PLANT SCHEDULE REVISIONS NO. DATE 10.17.2023 NUMBER REQ'D NOTES SIZE (MINIMUM) DESCRIPTION 10.26.2023 DWARF ENGLISH BOXWOOD (buxus sempervirens) 18" HT, #3 CONTAINER EAST TERRACE PLANTER 15 ENGLISH LAVENDER (lavandula angustifola) 6" HT, #1 CONTAINER WEST TERRACE 33 SMOOTH HYDRANGA (hydrangea arborescens) 24" HT, #3 CONTAINER 21 WEST TERRACE NORTH & SOUTH RAMPS 24" HT, #3 CONTAINER KNOCKOUT ROSE (rosa radrazz) 11 8-99 **3**964 C. State Carl ESTE: • ROCK: ROCK MULCH SHALL BE 2" TO 3" WASHED RIVER ROCK, UNIFORM IN SIZE. ALL FINES SHALL BE SCREENED FROM THE - Somder AGGREGATE WITHIN 1/4" TOLERANCE. ROCK MULCH SHALL BE CERTIFIED B D. SANDERS COMPOSED OF ROUND ROCKS THAT MAY BE VARIED IN COLOR. THE MATERIAL SHALL BE FREE OF ORGANIC AND INORGANIC AJ/DC DEBRIS AND TRASH. ROCK MULCH SHALL BE SPREAD 2" TO 3" THICK OVER A 28 MIL GEOTEXTILE/LANDSCAPE FABRIC, WITH **D. SANDERS** LOOSEN SUBSOIL BLACK HDEP PLASTIC ROLL EDGING 5" TALL, STAKED IN THE 6" FOR PLANTS TO 4' HIGH • GRASS: REMOVE ALL STONES AND OTHER DEBRIS PRIOR TO LAWN EQUAL TO TWICE BALL DIAMETER SEEDING. SOW A MIXTURE OF KENTUCKY BLUEGRASS AND FESCUE AT A RATE OF 6LBS PER 1000 SQFT OR AS RECOMMENDED PLANTING DETAIL BY SUPPLIER. SEED WITH MECHANICAL DEVICE, STRAW ENTIRE \ SP-2 / SCALE: NO SCALE YARD. HYDROSEEDING IS AN ACCEPTABLE ALTERNATE. • PLANTERS: (4) TERRACAST CABANA PEDESTAL BOWL GV-19 OR EQUAL. COMMERCIAL CONCRETE FINISH, 18.5" DIA, 17" TALL. – 24" DIA. C.I. GRATE & FRAME - GRADE 6"-8" TOPSOIL OVER GEOTEXTILE FABRIC **8" DIAMETER PIPE** 6" PVC OR ABS DOWN DRAIN 24" SEALED INSPECTION SOLID LID 4" PRE-CAST CONCRETE SLAB SHALL EXTEND 6" INTO 85555 UNDISTURBED SOIL 48" PRECAST MANHOLE —1.5" SEPTIC ROCK 0 0 0 0 Ш -LIMITS OF EXCAVATION 1:2 SLOPE 0 0 0 0 S PRECAST CONCRETE SECTIONS -PERFORATED 0 0 0 0 $\square$ -GEOTEXTILE FABRIC ENCLOSING GRAVEL BACKFILL & AROUND DRYWELL UBHO S -8" CONCRETE BASE **TION** INSTALL AS PER CITY STORM WATER CONTROL ORDINANCE PROTECT FROM SILT INFILTRATION DURING CONSTRUCTION DRYWELL DETAIL K SP-2 $\bigcirc$ SCALE: NO SCALE PARK RENO RIVER <u>RO</u>CK 1"-3" SLOPE SLOPE PAVEMENT LARGE GRAVEL (NO. 8) - GEOTEXTILE FABRIC MEDIUM GRAVEL -8" PERFORATED PIPE SMALL GRAVEL FRENCH DRAIN DETAIL — FERNCO REDUCER 4 — PVC ELBOW SP-2 SCALE: NO SCALE — PVC DRAINLINE JOB NUMBER 2214 – COMPACTED SUBGRADE 09/22/23 SHEET TITLE NEW SITE PLAN SP-2

ASPHALT PAVEMENT DETAIL

⁄2

5 SP-2

SCALE: NO SCALE











CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY SHORING, BRACING, AND OTHER TEMPORARY CONSTRUCTION NECESSARY TO ENSURE THAT THE STRUCTURAL INTEGRITY OF THE EXISTING STRUCTURE IS MAINTAINED DURING CONSTRUCTION ACTIVITIES.







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# Rea Park Add #2









DEMOLITION NOTE: CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY SHORING, BRACING, AND OTHER TEMPORARY CONSTRUCTION NECESSARY TO ENSURE THAT THE STRUCTURAL INTEGRITY OF THE EXISTING STRUCTURE IS MAINTAINED DURING CONSTRUCTION ACTIVITIES.







				C	ONTINUOUS FOOTING SCHEDULE	<u>.</u>
MARK	WIDTH (FT.)	THICKNESS (IN.)	LONGITUDINAL REINFORCEMENT - TOP	TRANSVERSE REINFORCEMENT - TOP	LONGITUDINAL REINFORCEMENT - BOTTOM	TRANSVERSE REINFORCEMENT - BOTTOM
CF2.0	2.0	16	#4 @ 12" O.C. CONTINUOUS	#6 @ 18" O.C.	#4 @ 12" O.C. CONTINUOUS	#6 @ 18" O.C.
CF3.0	3.0	12	#4 @ 12" O.C. CONTINUOUS	#6 @ 18" O.C.	#4 @ 12" O.C. CONTINUOUS	#6 @ 18" O.C.
CF3.5	3.5	16	#4 @ 12" O.C. CONTINUOUS	#6 @ 18" O.C.	#4 @ 12" O.C. CONTINUOUS	#6 @ 18" O.C.
CF4.5	4.5	16	#4 @ 12" O.C. CONTINUOUS	#6 @ 18" O.C.	#4 @ 12" O.C. CONTINUOUS	#6 @ 18" O.C.

				CONCRETE WALL S	CHEDULE - BASEMENT / CRAWLS	PACE / RETAINING
MARK	HEIGHT(FT.)	THICKNESS (IN.)	FLEXURAL REINFORCEMENT - INTERIOR	S&T REINFORCEMENT - INTERIOR	FLEXURAL REINFORCEMENT - EXTERIOR	S&T REINFORCEMENT - EXTERIOR
CW10	SEE ARCH.	12	#8 @ 18" O.C.	#5 @ 12" O.C. CONTINUOUS	#7 @ 18" O.C.	#5 @ 12" O.C. CONTINUOUS

					MASONRY WALL SCHEDULE	
MARK	HEIGHT (FT.)	THICKNESS (IN.)	BOND	VERTICAL REINFORCEMENT	HORIZONTAL REINFORCEMENT	GROUT
MW0.67	SEE ARCH.	8	RUNNING	#5 @ 48" O.C.	#5 @ 48" O.C.	PARTIAL / REINFORCED ONLY

	HICKENED SLAB SCHEDULE	Т			
COMMENTS	TRANSVERSE REINFORCEMENT	LONGITUDINAL REINFORCEMENT	THICKNESS (IN.)	WIDTH (IN.)	MARK
THICKENED SLAB TO HAVE SINGLE MAT	#5 REBAR @ 12" O.C.	(2) #5 REBAR / CONTINUOUS	12	18	TS1.5



 $1 \frac{\text{TYPICAL FOUNDATION SECTION}}{1/2" = 1'-0"}$ 

COMMENTS
COMMENTS
COORDINATE WALL HEIGHT WITH ARCHITECTURAL PLANS
COMMENTS
TOP OF WALL TO HAVE DOUBLE BOND BEAM

T OF REINFORCEMENT ONLY

THE STATE OF INDIANA. 2. GENERAL CONTRACTOR TO BE RESPONSIBLE FOR THE COORDINATION OF WOR ALL THE TRADES. 3. DRAWINGS ARE FOR GENERAL ARRANGEMENT AND MEMBER SIZING. CONTRAC RESPONSIBLE FOR FIELD MEASUREMENT PRIOR TO PROCUREMENT AND FABRIC STRUCTURAL STEEL. 4. ALL DIMENSIONS AND ELEVATIONS WERE OBTAINED FROM RELIABLE SOURCES EXISTING STRUCTURE AND ARE THEREFORE ASSUMED TO BE TRUE AND ACCUR ANY DISCREPANCIES TO THE ENGINEER FOR VERIFICATION. 5. FABRICATION AND ERECTION DRAWINGS TO BE SUBMITTED TO THE ENGINEER F APPROVAL PRIOR TO FABRICATION OF STRUCTURAL STEEL. DO NOT SCALE DRAWINGS. USE DIMENSIONS PROVIDED IN CONSTRUCTION DOC NO CHANGES TO BE MADE TO THESE DRAWINGS WITHOUT WRITTEN APPROVAL ENGINEER. 8. FIRST FLOOR FINISH ELEVATION = 100' - 0". 9. STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT. PROVIDE ANY TEMPORARY BRACING REQUIRED DURING CONSTRUCTION AND DO NOT REMOVE UNTIL BUILD COMPONENTS ARE CAPABLE OF SUPPORTING THEMSELVES AS WELL AS ANY LA INCLUDING WIND AND SEISMIC. 10. CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT CONSTRUCTION LOADS EXCEED THE DESIGN LOADS OF THE STRUCTURAL MEMBERS. 11. DESIGN STRESSES SOIL PRESSURE qa = 2,500 PSF CONCRETE f'c = 3,000 PSI REINFORCING STEEL Fy = 60,000 PSI FOUNDATION AND CONCRETE NOTES: 1. THE BEARING CAPACITY OF THE SOIL WAS PROVIDED BY RELIABLE SOURCES. GEOTECHNICAL CONSULTANT SHOULD VERIFY SOIL CAPACITY PRIOR TO CONST 2. BOTTOM OF FOOTING MUST BE 36" BELOW GRADE. 3. ADEQUATE BEARING STRENGTH SHALL BE VERIFIED BY GEOTECHNICAL CONSUL TO PLACEMENT OF CONCRETE. 4. FLOOR TO BE CONSTRUCTED AS 4" SLAB ON GRADE WITH A SINGLE REBAR MAT CONSTRUCTED FROM #5 REBAR AT 12" ON CENTERS IN BOTH DIRECTIONS. 5. TOP OF SLAB TO BE AT SAME ELEVATION AS EXISTING ADJACENT STRUCTURE L THE EXISTING STRUCTURE. 6. COORDINATE PLACEMENT OF FOOTINGS WITH ARCHITECTURAL DRAWINGS. RE DISCREPANCIES TO THE ENGINEER. HEATING OF REINFORCING STEEL FOR BENDING IS NOT PERMITTED. 8. CONCRETE COVER FOR REINFORCING STEEL PLACED IN THE FOUNDATION SHAL INCHES. 9. ALL CONSTRUCTION JOINTS SHALL BE KEYED. 10. CHAMPFER 3/4" X 45 DEGREES ALL EXPOSED EDGES OF CONCRETE. 11. CONCRETE COVER FOR STEEL REINFORCEMENT, UNLESS OTHERWISE NOTED: UNFORMED SURFACE IN CONTACT WITH GROUND 3 IN. FORMED SURFACES EXPOSED TO EARTH OR WEATHER 2 IN. FORMED SURFACES NOT EXPOSED TO EARTH OR WEATHER BEAMS, GIRDERS AND COLUMNS 1-1/2 IN. SLABS, WALLS AND JOISTS 3/4" IN. 12. MINIMUM CONCRETE COVER FOR ANCHOR BOLTS TO BE 3 INCHES. 13. REINFORCING STEEL LAP SPLICES SHALL BE IN ACCORDANCE WITH ACI 318-19. 14. CONTRACTOR TO PROVIDE CORNER BARS, AS NEEDED, FOR ALL HORIZONTAL REINFORCEMENT. 15. PROVIDE DIAGONAL REINFORCEMENT OF EACH SIDE OF OPENINGS, OR RE-ENTR CORNERS IN SLABS. SEE DETAIL. 16. CONTRACTOR TO BRUSH AND CLEAN ALL CONSTRUCTION JOINTS OF STRUCTUF 17. COORDINATE ANCHOR BOLT LAYOUT WITH STRUCTURAL STEEL DRAWINGS. 18. SEE STRUCTURAL DETAILS FOR ANCHOR BOLT EMBEDMENT DEPTH. 19. MASONRY WALLS SHOWN ON THESE DRAWINGS ARE TO BE CONSIDERED BEARI 20. DOWEL CONCRETE WALL AND MASONRY WALL REINFORCEMENT INTO THE FOOT 21. SEE CIVIL AND ARCHITECTURAL DRAWINGS FOR CONCRETE WORK NOT SHOWN STRUCTURAL DRAWINGS. SLAB ON GRADE: 1. SLAB ON GRADE TO BE REINFORCED WITH 6X6 W.W.F. REINFORCEMENT. WELDED WIRE FABRIC SHALL BE ADEQUATELY SUPPORTED DURING PLACEMEN CONCRETE AND SHALL BE LOCATED 2" BELOW THE TOP OF THE SLAB. 3. SLAB ON GRADE SHALL HAVE CONTROL JOINTS PLACED AT 20 FEET ON CENTER BE CUT IMMEDIATELY AFTER PLACEMENT OF THE CONCRETE SLAB. 4. VAPOR BARRIER SHOULD BE PLACED ON 6" OF CRUSHED STONE PRIOR TO PLAC THE SLAB-ON-GRADE. EXTERIOR SLABS-ON-GRADE TO BE TOOLED. WHERE FLOOR DRAINS ARE TO BE LOCATED, SLOPE SLAB AS NEEDED FOR PRO DRAINAGE. PROVIDE DIAGONAL REINFORCEMENT AT RE-ENTRANT CORNERS IN SLABS. DIA 7 REINFORCEMENT TO BE (2) #4 X 4'-0" BARS FOR EVERY 4" OF SLAB THICKNESS. 

			REVISIONS
GENERAL PLAN NOTES:	HOLLOW CORE SLAB NOTES:		NO. DATE
<ol> <li>ALL WORK TO BE DONE IN STRICT ACCORDANCE WITH ALL APPLICABLE BUILDING CODES IN THE STATE OF INDIANA.</li> <li>GENERAL CONTRACTOR TO BE RESPONSIBLE FOR THE COORDINATION OF WORK BETWEEN ALL THE TRADES.</li> <li>DRAWINGS ARE FOR GENERAL ARRANGEMENT AND MEMBER SIZING. CONTRACTOR RESPONSIBLE FOR FIELD MEASUREMENT PRIOR TO PROCUREMENT AND FABRICATION OF STRUCTURAL STEEL.</li> <li>ALL DIMENSIONS AND ELEVATIONS WERE OBTAINED FROM RELIABLE SOURCES FOR THE EXISTING STRUCTURE AND ARE THEREFORE ASSUMED TO BE TRUE AND ACCURATE. REPORT ANY DISCREPANCIES TO THE ENGINEER FOR VERIFICATION.</li> <li>FABRICATION AND ERECTION DRAWINGS TO BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION OF STRUCTURAL STEEL.</li> <li>DO NOT SCALE DRAWINGS. USE DIMENSIONS PROVIDED IN CONSTRUCTION DOCUMENTS.</li> <li>NO CHANGES TO BE MADE TO THESE DRAWINGS WITHOUT WRITTEN APPROVAL FROM THE ENCINEED</li> </ol>	<ol> <li>HOLLOW CORE SLABS TO BE FABRICATED E MANUFACTURER.</li> <li>HOLLOW CORE SLABS TO BE 10" THICK WIT AND DETAIL DRAWINGS.</li> <li>HOLLOW CORE SLABS TO BE REINFORCED THE SERVICE LOADS DEFINED.</li> <li>REFERENCE DETAILS FOR SLAB TO WALL A</li> <li>PROVIDE 1/8" THICK BEARING PAD UNDER A OR CONCRETE SURFACES.</li> <li>DESIGN AND FURNISH ALL HEADERS REQUINT DO NOT FIELD CUT HOLES THROUGH HOLLO ENGINEER OR ARCHITECT.</li> <li>SUBMITTALS, INCLUDING SHOP DRAWINGS, ENGINEER FOR APPROVAL PRIOR TO PROCE</li> </ol>	3Y STRESCORE OR APPROVED EQUIVALENT "H A 2" TOPPING SLAB AS INDICATED ON THE PLA WITH PRESTRESSED STEEL STRANDS TO RESIS" IND BEAM CONNECTIONS. ALL HOLLOW CORE SLABS BEARING ON MASONR IRED AT OPENINGS THROUGH SLABS. OW CORE SLABS WITHOUT APPROVAL FROM THE , FOR HOLLOWCORE SLABS TO BE SUBMITTED TO CUREMENT.	I     I       1     10.17.2023       2     10.26.2023       T
<ol> <li>FIRST FLOOR FINISH ELEVATION = 100' - 0".</li> <li>STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT. PROVIDE ANY TEMPORARY SUPPORT OR BRACING REQUIRED DURING CONSTRUCTION AND DO NOT REMOVE UNTIL BUILDING COMPONENTS ARE CAPABLE OF SUPPORTING THEMSELVES AS WELL AS ANY LATERAL LOADS INCLUDING WIND AND SEISMIC.</li> <li>CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT CONSTRUCTION LOADS DO NOT EXCEED THE DESIGN LOADS OF THE STRUCTURAL MEMBERS.</li> <li>DESIGN STRESSES SOIL PRESSURE qa = 2,500 PSF CONCRETE fc = 3,000 PSI REINFORCING STEEL Fy = 60,000 PSI</li> </ol>	<ol> <li>STRUCTURAL STEEL NOTES:</li> <li>SPLICING OF STRUCTURAL STEEL, UNLESS WITHOUT APPROVAL FROM THE ENGINEER</li> <li>BEAM / LINTEL BEARING ON CONCRETE OR OTHERWISE SPECIFIED.</li> <li>BOLT TIGHTENING TO BE DONE IN ACCORD "SPECIFICATION FOR STRUCTURAL JOINTS</li> <li>ALL STRUCTURAL STEEL TO BE SHOP PRIM INHIBITATIVE AND INTENDED FOR LONG TEI BE APPLIED BY OTHERS.</li> <li>NO ALTERATIONS TO THE STRUCTURE TO E</li> <li>CLEAN METAL SHAVINGS EROM ALL STRUCTURE</li> </ol>	SHOWN ON DRAWINGS, IS NOT PERMITTED MASONRY WALLS TO BE A MINIMUM OF 8", UNLE VANCE WITH THE LATEST EDITION OF THE AISC USING ASTM A325 OR A490 BOLTS." IED PRIOR TO ERECTION. ALL PRIMER TO BE RU: RM EXPOSURE TO THE ELEMENTS. FINAL PAINT BE MADE WITHOUT APPROVAL OF THE ENGINEEF	SS TO R. CERTIFIED BY
FOUNDATION AND CONCRETE NOTES:	COMPLETE.	STRUCTURAL STEEL CONNECTIONS	G. BRYANT
<ol> <li>THE BEARING CAPACITY OF THE SOIL WAS PROVIDED BY RELIABLE SOURCES. A GEOTECHNICAL CONSULTANT SHOULD VERIFY SOIL CAPACITY PRIOR TO CONSTRUCTION.</li> <li>BOTTOM OF FOOTING MUST BE 36" BELOW GRADE.</li> <li>ADEQUATE BEARING STRENGTH SHALL BE VERIFIED BY GEOTECHNICAL CONSULTANT PRIOR</li> </ol>	<ul> <li>7. SEE DETAILS FOR HOLLOW CORE SLAB TO</li> <li>8. CONTRACTOR TO PROVIDE SHOP DRAWING</li> <li>STEEL.</li> <li>9. ALL EXPOSED STRUCTURAL STEEL TO BE H</li> </ul>	STRUCTURAL STEEL CONNECTIONS. 3S PRIOR TO PROCUREMENT OF ANY STRUCTUR HOT DIPPED GALVANIZED.	AL DRAWN BY
TO PLACEMENT OF CONCRETE. 4. FLOOR TO BE CONSTRUCTED AS 4" SLAB ON GRADE WITH A SINGLE REBAR MAT	MATERIAL YIELD STRESSES HOT ROLLED BEAM	Fy = 50 KSI	
CONSTRUCTED FROM #5 REBAR AT 12" ON CENTERS IN BOTH DIRECTIONS. 5. TOP OF SLAB TO BE AT SAME ELEVATION AS EXISTING ADJACENT STRUCTURE LOCATED IN	STRUCTURAL STEEL SHEET / PLATE CONNECTION BOLTS	Fy = 36 KSI ASTM A325	G.BRTANT
<ul> <li>THE EXISTING STRUCTURE.</li> <li>COORDINATE PLACEMENT OF FOOTINGS WITH ARCHITECTURAL DRAWINGS. REPORT ANY DISCREPANCIES TO THE ENGINEER.</li> <li>HEATING OF REINFORCING STEEL FOR BENDING IS NOT PERMITTED.</li> <li>CONCRETE COVER FOR REINFORCING STEEL PLACED IN THE FOUNDATION SHALL BE AT 3 INCHES.</li> <li>ALL CONSTRUCTION JOINTS SHALL BE KEYED.</li> <li>CHAMPFER 3/4" X 45 DEGREES ALL EXPOSED EDGES OF CONCRETE.</li> <li>CONCRETE COVER FOR STEEL REINFORCEMENT, UNLESS OTHERWISE NOTED: UNFORMED SURFACE IN CONTACT WITH GROUND 3 IN. FORMED SURFACES EXPOSED TO EARTH OR WEATHER 2 IN. FORMED SURFACES NOT EXPOSED TO EARTH OR WEATHER BEAMS, GIRDERS AND COLUMNS 1-1/2 IN. SLABS, WALLS AND JOISTS 3/4" IN.</li> <li>MINIMUM CONCRETE COVER FOR ANCHOR BOLTS TO BE 3 INCHES.</li> <li>REINFORCING STEEL LAP SPLICES SHALL BE IN ACCORDANCE WITH ACI 318-19.</li> <li>CONTRACTOR TO PROVIDE CORNER BARS, AS NEEDED, FOR ALL HORIZONTAL CONCRETE REINFORCEMENT.</li> <li>PROVIDE DIAGONAL REINFORCEMENT OF EACH SIDE OF OPENINGS, OR RE-ENTRANT CORNERS IN SLABS. SEE DETAIL.</li> <li>CONTRACTOR TO BRUSH AND CLEAN ALL CONSTRUCTION JOINTS OF STRUCTURAL WALLS.</li> <li>CONTRACTOR TO BRUSH AND CLEAN ALL CONSTRUCTION JOINTS OF STRUCTURAL WALLS.</li> <li>CONTRACTOR TO BRUSH AND CLEAN ALL CONSTRUCTION JOINTS OF STRUCTURAL WALLS.</li> <li>SEE STRUCTURAL DETAILS FOR ANCHOR BOLT EMBEDMENT DEPTH.</li> <li>MASONRY WALLS SHOWN ON THESE DRAWINGS ARE TO BE CONSIDERED BEARING WALLS.</li> <li>DOWEL CONCRETE WALL AND MASONRY WALL REINFORCEMENT INTO THE FOOTINGS.</li> <li>SEE CIVIL AND ARCHITECTURAL DRAWINGS FOR CONCRETE WORK NOT SHOWN ON STRUCTURAL DRAWINGS.</li> </ul>	<ul> <li>ANCHOR BOLTS</li> <li>MASONRY NOTES:</li> <li>MASONRY WALLS SHOWN ON STRUCTURAL REFERENCE ARCHITECTURAL DRAWINGS F</li> <li>ALL MASONRY WALLS ON STRUCTURAL PLA WALL SCHEDULE FOR REINFORCEMENT SP</li> <li>ALL MASONRY REINFORCING STEEL TO BE PREVENT BAR MOVEMENT.</li> <li>GROUT TO BE STOPPED 2" BELOW THE TOF</li> <li>REINFORCE BOND BEAMS WITH (2) #5 REBA ON THESE DRAWINGS. ALL CORNERS TO B</li> <li>LAP SPLICES TO BE 48" FOR #5 REBAR AND</li> <li>ALL VERTICAL REINFORCEMENT IS TO BE C TO HOLD VERTICAL AND BOND BEAM REINF GROUT APPLICATION.</li> <li>REFERENCE ARCHITECTURAL DRAWINGS F</li> <li>BOND BEAM REINFORCEMENT SHALL CONT</li> <li>PROVIDE VERTICAL BARS AT ALL CORNERS SIDES OF ALL CONTROL JOINTS.</li> <li>MASONRY GROUT TO BE 2000 PSI AND APPL ALL CELLS CONTAINING VERTICAL RE ALL CELLS BELOW GRADE INCLUDING ALL BOND BEAMS ALL CELLS SUPPORTING STRUCTURA ALL CELLS ABOVE LINTELS</li> </ul>	F1554 GR.36 F1554 GR.36 OR NON LOAD BEARING WALLS. ANS TO BE REINFORCED. REFERENCE MASONRY 'ECIFICATIONS. SECURED PRIOR TO GROUT APPLICATION TO P OF A COURSE TO CREATE A KEYED JOINT. 'R, CONTINUOUS, UNLESS OTHERWISE SPECIFIE E REINFORCED WITH CORNER BARS. 78" FOR #6 REBAR. ENTERED IN THE CELLS. USE BAR POSITIONERS FORCEMENT IN THE PROPER ALIGNMENT PRIOR CONTROL JOINTS. FINUE THROUGH ALL CONTROL JOINTS. S, ENDS, JAMBS, INTERSECTIONS AND ON BOTH 'LIED IN THE FOLLOWING SCENARIOS: EINFORCEMENT FOUNDATION WALLS AL STEEL BEAMS / EXTEND TO FOUNDATION WALK	Frand Associates, Inc. H 7TH STREET UTE, INDANA 47807 112) 232-5256
1. SLAB ON GRADE TO BE REINFORCED WITH 6X6 W.W.F. REINFORCEMENT.	SERVICE LOAD CRITERIA:		Source (8
<ol> <li>WELDED WIKE FARKIG SHALL BE ADEQUATELY SUPPORTED DURING PLACEMENT OF THE CONCRETE AND SHALL BE LOCATED 2" BELOW THE TOP OF THE SLAB.</li> <li>SLAB ON ORADE SHALL HAVE CONTROL JOINTS DIAGED AT 22 EFET ON CENTER AND CLASS</li> </ol>	BUILDING RISK CATEGORY	Ш	PHOR
3. SLAD ON GRADE SHALL HAVE CONTROL JUINTS PLACED AT 20 FEET ON CENTER AND SHALL BE CUT IMMEDIATELY AFTER PLACEMENT OF THE CONCRETE SLAB.	DESIGN CODES	ASCE 07-22 IBC 2012	
<ol> <li>VAPOR BARRIER SHOULD BE PLACED ON 6" OF CRUSHED STONE PRIOR TO PLACEMENT OF THE SLAB-ON-GRADE.</li> <li>EXTERIOR SLABS-ON-GRADE TO BE TOOLED.</li> <li>WHERE FLOOR DRAINS ARE TO BE LOCATED, SLOPE SLAB AS NEEDED FOR PROPER DRAINAGE</li> </ol>	DEAD LOAD CRITERIA	PATIO 125 PSF VERANDA 125 PSF CLUBHOUSE 125 PSF	
<ol> <li>PROVIDE DIAGONAL REINFORCEMENT AT RE-ENTRANT CORNERS IN SLABS. DIAGONAL REINFORCEMENT TO BE (2) #4 X 4'-0" BARS FOR EVERY 4" OF SLAB THICKNESS. SEE DETAIL.</li> </ol>	LIVE LOAD CRITERIA	PATIO 100 PSF VERANDA 100 PSF CLUBHOUSE 100 PSF	
	SNOW CRITERIA	GROUND SNOW LOAD30 PSFSNOW EXPOSURE1.0THERMAL FACTOR1.0	С С
	WIND CRITERIA	BASIC SPEED 114 MPH EXPOSURE B	
	SEISMIC CRITERIA	SITE CLASS D - STIFF SOIL DESIGN CATEGORY C RESPONSE CRITERIA SMS - 0.44	NO O

SDS = 0.29 SD1 = 0.19

SM1 - 0.28

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HEDULES & DETAIL **F**2

JOB NUMBER 2214

9/28/23



	LEGEND
22	SANITARY SEWER PIPING
	SANITARY VENT PIPING
	DOM. COLD WATER PIPING
	DOM. HOT WATER PIPING
	DOM. TEMPERED WATER PIPING
G	NATURAL GAS PIPING
C	CONDENSATE DRAIN PIPING
	CONNECTION POINT NEW TO EXIST.
	BALL VALVE
	CHECK VALVE
	BALANCING VALVE
WC	WATER CLOSET
WC-HC	WATER CLOSET HANDICAP
LAV-HC	LAVATORY HANDICAP
SH-HC	SHOWER HANDICAP
EWC-HC	ELECT. WATER COOLER HANDICAP
HC	HANDICAP
KS	KITCHEN SINK
DW	DISHWASHER
PF	POT FILLER
ES	EXAM SINK
WKF	WOK FILER
MB	MOP BASIN
IWH	INSTANTANIOUS WATER HEATER
FD	FLOOR DRAIN
FS	FLOOR SINK
OR	OPEN RECEPTACLE
SCS	SOLIDS COLLECTION SUMP
WB	WASHER BOX
HB	HOSE BIBB
<u>WH</u>	WALL HYDRANT
MV	MIXING VALVE
<u>co</u>	CLEAN OUT
WCO	WALL CLEAN OUT
YCO	YARD CLEAN OUT
DCV	DOUBLE CHECK VALVE
VTR	VENT THRU ROOF
<u>RPBFP</u>	REDUCED PRESSURE BACKFLOW PREVENTER
	DOWN SPOUT

# PLUMBING GENERAL NOTES:

- 1. PLUMBING CONTRACTOR SHALL PROVIDE COMPLETE SYSTEMS AND EQUIPMENT AS SHOWN AND SHALL COMPLY WITH ALL APPLICABLE SPECIFICATIONS.
- 2. PLUMBING CONTRACTOR SHALL INSTALL ALL PLUMBING, FIXTURES, AND PLUMBING SPECIALTIES (AIR GAPS, ANIT-SIPHON DEVICES, VALVES, WATER HAMMER ARRESTORS, ETC.) AS NECESSARY TO COMPLY WITH THE 2018 INTERNATIONAL PLUMBING CODE AND ALL LOCAL REQUIREMENTS.
- 3. FIXTURES INDICATED TO BE ADA COMPLIANT SHALL CONFORM AND BE INSTALLED TO COMPLY WITH THE MISSOURI ACCESSIBILITY ACT AND ADA ACCESSIBILITY GUIDELINES.
- 4. PLUMBING CONTRACTOR SHALL INSTALL ALL NATURAL GAS PIPING AS NECESSARY TO COMPLY WITH NATIONAL FUEL GAS CODE HANDBOOK.
- 5. THE PLAN IS DIAGRAMMATIC IN NATURE AND NOT ALL PIPING IS SHOWN. COORDINATE WITH FIXTURES AND PROVIDE ALL REQUIRED PIPING> EXISTING CONDITIONS MAY VARY AND DEMOLITION, SAWCUTTING OF FLOORS MAY NOT BE SHOWN BUT MAY BE REQUIRED. CONTRACTOR IS RESPONSIBLE TO CARRY OUT DEMOLITION WORK TO HAVE A FULLY FUNCTIONAL SYSTEMS AS SHOWN ON DRAWINGS. ALL DEMOLITION WORK IS THE RESPONSIBILITY OF THE CONTRACTOR.
- 6. VENT PIPING IS SHOWN. PROVIDE COMPLETE VENT SYSTEM UTILIZING AS FEW ROOF PENETRATIONS AS POSSIBLE.
- 7. PLUMBING CONTRACTOR SHALL LOCATE ALL VENTS AT LEAST 10' AWAY FROM ALL HVAC OUTSIDE AIR INTAKES.
- 8. INSTALL ALL SUPPLY PIPING AS HIGH AS POSSIBLE ABOVE THE DROP CEILING, TYPICALLY UP AGAINST THE CEILING/ROOF STRUCTURE. VENT PIPING SHALL EXTEND UP INTO DROP CEILING SPACE.
- 9. ALL PIPING SHALL COMPLY WITH THE INTERNATIONAL PLUMBING CODE AS ADOPTED BY THE MUNICIPALITY IN WHICH THE PROJECT IS LOCATED. IF ANY CONFLICT EXISTS THE CODE IS THE DEFAULT DOCUMENT.
- 10. CONFIRM ALL CONNECTION SIZES AND EQUIPMENT REQUIREMENTS PRIOR TO ORDERING MATERIALS.
- 11. INCLUDE NATURAL GAS REGULATORS AT EACH POINT OF EQUIPMENT CONNECTION, WHEN REQUIRED FOR PROPER EQUIPMENT OPERATIONS.
- 12. ALL MATERIALS USED TO COMPLY WITH 2018 INTERNATIONAL PLUMBING CODE, VERSION ADOPTED AT TIME OF CONSTRUCTION. 13. ALL SINKS AND LAVS THAT ARE NOT FULL TEMP WATER SHALL HAVE A

MIXING TEE OR MIXING VALVE INSTALL AT FIXTURE.



FLOOR SINK DETAIL NO SCALE:

FLOOR SINK CONCRETE SLAB FIN. FLOOR







		Р	LUMBING FIX	TURE SCHEDULE
TAG	SERVES	DESI	GN BASE	REMARKS
WC/ WC-	PUBLIC	AMERICAN STANDARD	3351.101	AFWALL ELONGATED ADA COMPLIANT WALL MOUNTED WATER CLOSET,NARROW BACK TO BACK WALL CARRIER REQUIERED. PROVIDE ELONGATED HEAVY DUTY OPEN FRONT TOILET SEAT.
HC		AMERICAN STANDARD	6065.121.002	EXPOSED 1.28 GPF 1 1/2"TOP SPUD SENSOR OPERATED FLUSH VALVE. DC POWER. 1" INLET
LAV/ LAV-	PURUC	KOHLER	К-2210	CAXTON 19" OVAL UNDERMOUNT BASIN. 4" FAUCET HOLES WHITE 20"X17"X8"
HC	POBLIC	CHICAGO FAUCET	116.966AB.1	E-TRONIC TOUCHLESS BATTERY POWERED FAUCET. PROVIDE MIXING TEE. ADA COMPLIENT. PROVIDE DRAIN AND FULL P-TRAP
UR/UR-HC	PUBLIC	AMERICAN STANDARD	6063051.002	EXPOSED SENSOR OPERATED FLUSH VALVE. 3/4" SPUD FACOTRY INSTALLED LITHIUM BATTERY.
		тото	UT104E	.5GPF COMMERCIAL WASHOUT URINAL 3/4" TOP SPUD 2" OUTLET FLANGE.
WH	WALL HYDRANT	J.R.SMITH		CONNECTION INCLUDE STEM LOCK PACKAGE WITH KEYS
DWH-1	RESTROOM LAVS	A.O. SMITH	ENLB-30	ELEMENTS .93 UEF
DWH-2	KITCHEN	A.O. SMITH	GPVT-50	97 GAL FIRST HR RATING.
DS	BAR	JOHN BOOS	PBF-4SM2-6LF-X	HEAVY DUTY SPLASH MOUNT 6" FAUCET
		JOHN BOOS	PBE-45M2-3GLE-X	UNDER BAR DUMP SINK FREE STANDING STAINLESS STEEL
UHS	BAR		UBHS-1812-X	
	KITCHEN	JOHN BOOS	PBF-4DM-5GLF	HEAVY DUTY DECK MOUNT 5" GOOSE NECK FAUCET
PS	KITCHEN	JOHN BOOS	EPT8R5-3048GSK-R	PREP WORK TABLE WITH SINK ADJUSTABLE LEGS
HS	KITCHEN	JOHN BOOS	PBHS-W-1410-P	STAINLESS STEEL WALL MOUNT HAND SINK WITH DECKMOUNT FAUCET. PROVIDE ALL HARDWARE FOR TRAP AND DRAIN.
BS	BAR	JOHN BOOS	PBF-4SM2-10LF-X	SPLASH MOUNT 10" SWING SPOUT, 4" CENTERS
63	DAN	JOHN BOOS	UBS3-1860-2D12-X	3 BOWL UNDER BAR SINK WITH FAUCETS AND L/R DRAIN BOARDS 72"X21"X33"H. INCLUDE ALL HARDWARE TO PIPE TO FLOOR SINK.
3- COMP	KITCHEN	T&S	B-0133-ADF12-B	12" ADJUSTABLE CENTER WALL MOUNT FAUCET WITH PRE RINSE SPRAYER
		JOHN BOOS	3B16204-2D18-X	STAINLESS STEEL 3 COMPARTMENT SINK WITH LEFT AND RIGHT DRAIN BOARDS. 87"X25"X44"H
GT	KITCHEN	WATTS	GP-25	25 GPM ON FLOOR GREASE TRAP WITH 50LB GREASE CAPACITY 3" INLET/OUTLET
FS	BAR	SIOUX CHIEF	δη-τας	CONNECTION.
MS	GYM	FIAT	MSB3624	36"X24"X10" MOP SRVICE BASIN. INCLUDE SPLASH GURADS AND MOI HANGER.
RPBFP	PUBLIC	ZURN	975XL3	1 1/2" REDUCED PRESSURE BACK FLOW PREVENTOR, INCLUDE VALVE AND ALL HARDWARE FOR FUNCTIONAL SYSTEM. LOW LEAD BRONZE.
FD-1	FLOOR DRAIN	JR SMITH	2320	MEDIUM DUTY FLOOR DRAIN WITH ADJUSTABLE TOP, SPECIFY NICKLE BRONZE FINISH. 3" DRAIN
FD-2	FLOOR DRAIN	SIOUX CHIEF	860-641	HEAVY DUTY FLOOR DRAIN WITH ADJUSTABLE TOP, SPECIFY NICKLE BRONZE FINISH. 4" DRAIN

# FIRE PROTECTION NOTES:

NO SCALE:

1. FIRE PROTECTION SHALL BE A FULLY SPRINKLED 100% COVERAGE (WET TYPE) SPRINKLER SYSTEM WHICH SHALL BE DESIGNED AND INSTALLED PER NFPA 13, AND TO ALL APPLICABLE CODES AND REGULATIONS.

- THE SPRINKLER SYSTEM SHALL BE DESIGNED BY AN INDIVIDUAL FULLY LICENSED TO DESIGN SPRINKLER SYSTEMS AT THE PROJECT LOCATION AND IT SHALL BE INSTALLED BY A CONTRACTOR FULLY APPROVED BY THE STATE TO INSTALL SPRINKLER SYSTEMS.
- . CONTRACTOR SHALL SUBMIT HYDRAULICALLY DESIGNED SYSTEM AND SUBMIT SHOP DRAWINGS TO THE A/E AND ANY APPLICABLE GOVERNMENTAL AGENCY FOR APPROVAL. CONTRACTOR SHALL OBTAIN ALL PERMITS AND FEES REQUIRED.
- 4. ROUTING OF PIPING SHALL BE DETERMINED BY CONTRACTOR AND SHALL BE COORDINATED WITH ALL OTHER TRADES TO HAVE MINIMAL INTERFERENCE WITH DUCT ROUTING, PIPE ROUTING, ETC. SYSTEM SHALL MEET SEISMIC ZONE REQUIREMENTS. EXPOSED SPRINKLER HEADS IN FINISHED AREAS SHALL BE FULLY RECESSED WITH COVER PLATE TO MATCH THE CEILING.
- LOCATE SPRINKLER HEADS IN CENTER OF TILES WHERE POSSIBLE. SPRINKLER SYSTEM SHALL INCLUDE PIPE RISER, SIAMESE CONNECTIONS AND ALL
- PERTINENT FIRE PROTECTION SYSTEM NEEDS FOR A FULLY FUNCTIONAL SYSTEM. PROVIDE PIPING MAINS SIZED FOR 100% COVERAGE. WET SYSTEM SHALL BE EVERYWHERE EXCEPT IN UNCONDITIONED AND UNINSULATED AREAS. THESE AREAS ARE TO BE DRY TYPE.
- 8. FIRE PROTECTION CONTRACTOR SHALL COORDINATE THE SIZING AND INSTALLATION OF THE FIRE PUMP AND AIR COMPRESSOR. 9. COORDINATE WITH ALL OTHER TRADES FOR SEAMLESS CONSTRUCTION.

# Rea Park Add #2

NO.

REVISIONS

DATE

2 10-25-23 CERTIFIED BY BPB DRAWN BY CHECKED BY BPB 10**9**11 STATE OF Ш JBHOUS RENOVATION **U** Rolf PARK  $\triangleleft$ R JOB NUMBER 2214

> DATE 09/07/23

SHEET TITLE PLUMBING PLAN

SHEET

P0.1

ENGINEERING

**BOYT ENGINEERING** 400 N. MARKET ST. **MARION, IL 62959** 618-964-9418 Benjamin P. Boyt Sole Proprietor





# BASEMENT PLUMBING PLAN

SCALE 1/8" = 1'-0"



ENGINEERING Sole Proprietor

**BOYT ENGINEERING** 400 N. MARKET ST. **MARION, IL 62959** 618-964-9418 Benjamin P. Boyt

JOB NUMBER 2214

DATE 09/07/23

SHEET TITLE PLUMBING PLAN

SHEET

P1.1

#### SECTION 11400 FOOD SERVICE EQUIPMENT

#### PART 1 - GENERAL

#### **1.1 RELATED DOCUMENTS**

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

#### 1.2 SUMMARY

- A. This Section includes food service equipment indicated on Drawings and schedules.
- B. Owner-Furnished Equipment: Where indicated, Owner will furnish equipment items.
- C. Related Sections include the following:
  - 1. Division 5 Section "Metal Fabrications" for equipment supports.
  - 2. Division 6 Section "Interior Architectural Woodwork" for wood casework and plasticlaminate substrates.
  - 3. Refer to Division 15 Sections for supply and exhaust fans; exhaust ductwork; service roughing-ins; drain traps; atmospheric vents; valves, pipes, and fittings; fire-extinguishing systems; and other materials required to complete food service equipment installation.
  - 4. Refer to Division 16 Sections for connections to fire alarm systems, wiring, disconnects, and other electrical materials required to complete food service equipment installation.

#### **1.3 DEFINITIONS**

A. Terminology Standard: Refer to NSF 2, "Food Equipment" or other applicable NSF standards for definitions of food service equipment and installation terms not otherwise defined in this Section or in other referenced standards.

#### 1.4 SUBMITTALS

- A. Product Data: For each type of food service equipment indicated. Include manufacturer's model number and accessories and requirements for access and maintenance clearances, water and drainage, power or fuel, and service-connections including roughing-in dimensions.
- B. Shop Drawings: For food service equipment not manufactured as standard production and catalog items by manufacturers. Include plans, elevations, sections, roughing-in dimensions, fabrication details, service requirements, and attachments to other work.
  - 1. Wiring Diagrams: Details of wiring for power, signal, and control systems and differentiating between manufacturer-installed and field-installed wiring.
  - 2. Piping Diagrams: Details of piping systems and differentiating between manufacturer-installed and field installed piping.
- C. Coordination Drawings: For locations of food service equipment and service utilities. Key equipment with item numbers and descriptions indicated in Contract Documents.

Include plans and elevations of equipment, access- and maintenance-clearance requirements, details of concrete or masonry bases and floor depressions, and service-utility characteristics.

- D. Samples for Initial Selection: Manufacturer's color charts showing the full range of colors available for exposed products with color finishes.
- E. Samples for Verification: Of each type of exposed finish required, minimum 4-inch-(100-mm-) square or 6-inch- (150-mm-) long sections of linear shapes and of same thickness and material indicated for work. Where finishes involve normal color and texture variations, include Sample sets showing the full range of variations expected.
- F. Product Certificates: Signed by manufacturers of refrigeration systems or their authorized agents certifying that systems furnished comply with requirements and will maintain operating temperatures indicated in the areas or equipment that they will serve.
- G. Maintenance Data: Operation, maintenance, and parts data for food service equipment to include in the maintenance manuals specified in Division 1. Include a product schedule as follows:
  - 1. Product Schedule: For each food service equipment item, include item number and description indicated in Contract Documents, manufacturer's name and model number, and authorized service agencies' addresses and telephone numbers.

#### 1.5 QUALITY ASSURANCE

- A. Installer Qualifications: Engage an experienced installer to perform work of this Section who has specialized in installing food service equipment, who has completed installations similar in design and extent to that indicated for this Project, and who has a record of successful in-service performance.
- B. Manufacturer Qualifications: Engage a firm experienced in manufacturing food service equipment similar to that indicated for this Project and with a record of successful inservice performance.
- C. Source Limitations: Obtain each type of food service equipment through one source from a single manufacturer.
- D. Product Options: Drawings indicate food service equipment based on the specific products indicated. Other manufacturers' equipment with equal size and performance characteristics may be considered. Refer to Division 1 Section "Substitutions."
- E. Regulatory Requirements: Comply with the following National Fire Protection Association (NFPA) codes:
  - 1. NFPA 17, "Dry Chemical Extinguishing Systems."
  - 2. NFPA 17A, "Wet Chemical Extinguishing Systems."
  - 3. NFPA 54, "National Fuel Gas Code."
  - 4. NFPA 70, "National Electrical Code."
  - 5. NFPA 96, "Ventilation Control and Fire Protection of Commercial Cooking Operations."
- F. Listing and Labeling: Provide electrically operated equipment or components specified in this Section that are listed and labeled.

- 1. The Terms "Listed" and "Labeled": As defined in the National Electrical Code, Article 100.
- 2. Listing and Labeling Agency Qualifications: A "Nationally Recognized Testing Laboratory" (NRTL) as defined in OSHA Regulation 1910.7.
- G. AGA Certification: Provide gas-burning appliances certified by the American Gas Association (AGA).
- H. ASME Compliance: Fabricate and label steam-generating and closed steam-heating equipment to comply with ASME Boiler and Pressure Vessel Code.ASHRAE Compliance: Provide mechanical refrigeration systems complying with the American Society of Heating, Refrigerating and Air-Conditioning Engineers' ASHRAE 15, "Safety Code for Mechanical Refrigeration."
- I. NSF Standards: Comply with applicable NSF International (NSF) standards and criteria and provide NSF Certification Mark on each equipment item, unless otherwise indicated.
- J. ANSI Standards: Comply with applicable ANSI standards for electric-powered and gasburning appliances; for piping to compressed-gas cylinders; and for plumbing fittings, including vacuum breakers and air gaps, to prevent siphonage in water piping.
- K. SMACNA Standard: Where applicable, fabricate food service equipment to comply with the Sheet Metal and Air Conditioning Contractors National Association's (SMACNA) "Kitchen Equipment Fabrication Guidelines," unless otherwise indicated.
- L. Seismic Restraints: Provide seismic restraints for food service equipment according to the Sheet Metal and Air Conditioning Contractors National Association's (SMACNA)
   "Kitchen Equipment Fabrication Guidelines," appendix 1, "Guidelines for Seismic Restraints of Kitchen Equipment," unless otherwise indicated.
- M. Preinstallation Conference: Conduct conference at Project site to comply with requirements of Division 1 Section "Project Meetings."
- N. Preinstallation Conference: Conduct conference at Project site to comply with requirements of Division 1 Section "Project Meetings." Review methods and procedures related to food service equipment including, but not limited to, the following:
  - 1. Review access requirements for equipment delivery.
  - 2. Review equipment storage and security requirements.
  - 3. Inspect and discuss the condition of substrate and other preparatory work performed by other trades.
  - 4. Review structural loading limitations.
  - 5. Review and finalize construction schedule and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.

#### 1.6 DELIVERY, STORAGE, AND HANDLING

- A. Deliver food service equipment as factory-assembled units with protective crating and covering.
- B. Store food service equipment in original protective crating and covering and in a dry location.

#### **1.7 PROJECT CONDITIONS**

- A. Field Measurements: Verify dimensions of food service equipment installation areas by field measurements before equipment fabrication and indicate measurements on Shop Drawings and Coordination Drawings. Coordinate fabrication schedule with construction progress to avoid delaying the Work.
  - 1. Established Dimensions: Where field measurements cannot be made without delaying the Work, establish required dimensions and proceed with fabricating equipment without field measurements. Coordinate construction to ensure actual dimensions correspond to established dimensions.

#### **1.8 COORDINATION**

- A. Coordinate equipment layout and installation with other work, including light fixtures, HVAC equipment, and fire suppression system components.
- B. Coordinate location and requirements of service-utility connections. Coordinate size, location, and requirements of concrete bases, positive slopes to drains, floor depressions, and insulated floors. Concrete, reinforcement, and formwork requirements are specified in Division 3 Section "Cast-in-Place Concrete."
- C. Coordinate installation of roof curbs, equipment supports, and roof penetrations. These items are specified in Division 7 Section "Roof Accessories."

#### 1.9 WARRANTY

- A. General Warranty: The special warranty specified in this Article shall not deprive the Owner of other rights the Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by the Contractor under requirements of the Contract Documents.
- B. Refrigeration Compressor Warranty: Submit a written warranty signed by manufacturer agreeing to repair or replace compressors that fail in materials or workmanship within the specified warranty period. Failures include, but are not limited to, the following:
  - 1. Breakage.
  - 2. Faulty operation.
  - C. Warranty Period: 5 years from date of Substantial Completion.

#### PART 2 – PRODUCTS

#### 2.1 MATERIALS

- A. Stainless-Steel Sheet, Strip, Plate, and Flat Bar: ASTM A 666, Type 304, stretcher leveled, and in finish specified in "Stainless-Steel Finishes" Article.
- B. Stainless-Steel Tube: ASTM A 554, Grade MT-304, and in finish specified in "Stainless-Steel Finishes" Article.
- C. Zinc-Coated Steel Sheet: ASTM A 653, G115 (ASTM A 653M, Z350) coating designation; commercial quality; cold rolled; stretcher leveled; and chemically treated.

- D. Zinc-Coated Steel Shapes: ASTM A 36 (ASTM A 36M), zinc-coated according to ASTM A 123 requirements.
- E. Plastic Laminate: Complying with NEMA LD 3 and NSF 35 requirements; NSF certified for end-use application indicated; 0.050 inch (1.27 mm) thick for horizontal and vertical surfaces and 0.042 inch (1.07 mm) thick for post-formed surfaces; smooth texture; and easily cleanable.
  - 1. Color: As selected by Architect from manufacturer's full range of colors.
- F. Plywood and Lumber: Provide plywood and lumber as specified in Division 6 Section "Interior Architectural Woodwork."
- G. Sealant: ASTM C 920; Type S, Grade NS, Class 25, Use NT. Provide elastomeric sealant NSF certified for end-use application indicated. Provide sealant that, when cured and washed, meets requirements of Food and Drug Administration's 21 CFR, Section 177.2600 for use in areas that come in contact with food.
  - 1. Color: As selected by Architect from manufacturer's full range of colors.
  - 2. Backer Rod: Closed-cell polyethylene, in diameter larger than joint width.
- H. Tempered Glass: ASTM C 1048, Kind FT (fully tempered), Condition A (uncoated surfaces), Type I (transparent), Class 1 (clear), Quality q3 (glazing select). Provide products complying with ANSI Z97.1, manufactured by horizontal (roller-hearth) process, and 6 mm thick, unless otherwise indicated. Provide exposed safety edges, if any, seamed before tempering.
- I. Plastic: Except for plastic laminate, provide plastic materials and components complying with NSF 51.
- J. Sound Dampening: NSF-certified, nonabsorbent, hard-drying, sound-deadening coating. Provide coating compounded for permanent adhesion to metal in 1/8-inch (3-mm) thickness that does not chip, flake, or blister.
- K. Gaskets: NSF certified for end-use application indicated; of resilient rubber, neoprene, or PVC that is nontoxic, stable, odorless, nonabsorbent, and unaffected by exposure to foods and cleaning compounds.

#### 2.2 ACCESSORIES

- A. Cabinet Hardware: Provide NSF-certified, stainless-steel hardware for equipment items as indicated.
- B. Casters: NSF-certified, standard-duty, stainless-steel, swivel stem casters with 5-inch-(125-mm-) diameter wheels, polyurethane tires with 1-inch (25-mm) tread width, and 200-lb (90-kg) load capacity per caster. Provide brakes on 2 casters per unit.

#### 2.3 FABRICATION, GENERAL

- A. Fabricate food service equipment according to NSF 2 requirements. Factory assemble equipment to greatest extent possible.
- B. Plastic-Laminate and Wood Casework: Fabricate according to requirements specified in Division 6 Section "Interior Architectural Woodwork."

- C. Welding: Use welding rod of same composition as metal being welded. Use methods that minimize distortion and develop strength and corrosion resistance of base metal. Provide ductile welds free of mechanical imperfections such as gas holes, pits, or cracks.
  - 1. Welded Butt Joints: Provide full-penetration welds for full-joint length. Make joints flat, continuous, and homogenous with sheet metal without relying on straps under seams, filling in with solder, or spot welding.
  - 2. Grind exposed welded joints flush with adjoining material and polish to match adjoining surfaces.
  - 3. Where fasteners are welded to underside of equipment, finish reverse side of weld smooth and undepressed.
  - 4. Coat unexposed stainless-steel welded joints with suitable metallic-based paint to prevent corrosion.
  - 5. After zinc-coated steel is welded, clean welds and abraded areas and apply SSPC-Paint 20, high-zinc-dust□content, galvanizing repair paint to comply with ASTM A 780.
- D. Fabricate field-assembled equipment prepared for field-joining methods indicated. For metal butt joints, comply with referenced SMACNA standard, unless otherwise indicated.
- E. Where stainless steel is joined to a dissimilar metal, use stainless-steel welding material or fastening devices.
- F. Form metal with break bends that are not flaky, scaly, or cracked in appearance; where breaks mar uniform surface appearance of material, remove marks by grinding, polishing, and finishing.
- G. Sheared Metal Edges: Finish free of burrs, fins, and irregular projections.
- H. Provide surfaces in food zone, as defined in NSF 2, free from exposed fasteners. Cap exposed fastener threads, including those inside cabinets, with stainless-steel lock washers and stainless-steel cap (acorn) nuts.
- I. Provide pipe slots on equipment with turned-up edges and sized to accommodate service and utility lines and mechanical connections.
- J. Provide enclosures, including panels, housings, and skirts, to conceal service lines, operating components, and mechanical and electrical devices including those inside cabinets, unless otherwise indicated.
- K. Seismic Restraints: Fabricate to comply with referenced SMACNA standard, unless otherwise indicated.

#### 2.4 STAINLESS-STEEL EQUIPMENT

- A. Edges and Backsplashes: Provide equipment edges and backsplashes indicated complying with referenced SMACNA standard, unless otherwise indicated.
- B. Apply sound dampening to underside of metal work surfaces, including sinks and similar units. Provide coating with smooth surface and hold coating 1 inch (25 mm) back from open edges for cleaning.
- C. Tables: Fabricate with reinforced tops, legs, and reinforced undershelves or cross bracing to comply with referenced SMACNA standard, unless otherwise indicated, and as follows:

- 1. Tops: Minimum 0.0781-inch- (1.984-mm-) thick stainless steel, unless otherwise indicated.
- 2. Legs: 1-5/8 inch (41.3 mm) OD, minimum 0.0625-inch- (1.588-mm-) thick stainless steel with stainless steel gusset and adjustable insert bullet-type feet with minimum adjustment of 1 inch (25 mm) up or down without exposing threads, unless otherwise indicated.
- 3. Undershelves: Minimum 0.625-inch- (1.588-mm-) thick stainless steel, unless otherwise indicated.
- 4. Top and Undershelf Reinforcement: Provide minimum 0.0781-inch- (1.984-mm-) thick, stainless-steel reinforcing, unless otherwise indicated.
- 5. Cross Bracing: 1-1/4 inch (31.75 mm) OD, minimum 0.0625-inch- (1.588-mm-) thick stainless steel, unless otherwise indicated.
- D. Sinks: Fabricate of minimum 0.0781-inch- (1.984-mm-) thick stainless steel with fully welded, 1-piece construction. Construct 2 sides and bottom of sink compartment from 1 stainless-steel sheet with ends welded integral and without overlapping joints or open spaces between compartments. Provide double-wall partitions between compartments with 1/2-inch- (13-mm-) radius rounded tops that are welded integral with sink body. Cove horizontal, vertical, and interior corners with 3/4-inch (19-mm) radius. Pitch and crease sinks to waste for drainage without pooling. Seat wastes in die-stamped depressions without solder, rivets, or welding.
  - 1. Wastes: 2-inch (50-mm) nickel-plated bronze, rotary-handle waste assembly with stainless-steel strainer plate and nickel-plated brass, connected overflow.
  - 2. Drainboards: Minimum 0.0781-inch- (1.984-mm-) thick stainless steel, pitched to sink at 1/8 inch/12 inches (3 mm/300 mm) of length. Reinforce drainboards with minimum 0.0781-inch- (1.984-mm-) thick stainless steel, unless otherwise indicated.
  - 3. Legs: 1-5/8 inch (41.3 mm) OD, minimum 0.0625-inch- (1.588-mm-) thick stainless steel with stainless steel gusset welded to 0.1094-inch- (2.779-mm-) thick, stainless-steel support plate. Provide adjustable insert bullet-type feet with minimum adjustment of 1 inch (25 mm) up or down without exposing threads, unless otherwise indicated.
  - 4. Drainboard Braces: 1 inch (25 mm) OD, minimum 0.0625-inch- (1.588-mm-) thick stainless steel, unless otherwise indicated.
  - 5. Cross Bracing: 1-1/4 inch (31.75 mm) OD, minimum 0.0625-inch- (1.588-mm-) thick stainless steel, unless otherwise indicated.
- E. Wall Shelves and Overshelves: Fabricate to comply with referenced SMACNA standard, unless otherwise indicated, and with minimum 0.0625-inch- (1.588-mm-) thick, stainless-steel shelf tops.
- F. Drawers: Provide lift-out type, 1-piece, die-stamped drawer pan fabricated from 0.050inch- (1.27-mm-) thick stainless steel with inside corners radiused. Support drawer pan with 0.0625-inch- (1.588-mm-) thick, stainless steel channel frame welded to drawer front. Provide 1-inch- (25-mm) thick, double-wall front fabricated from 0.0625-inch-(1.588-mm-) thick stainless steel and with integral recessed pull. Fill void in drawer front with semirigid fiberglass sound dampening. Mount drawers on NSF-certified, full-

extension, stainless-steel drawer slides that have minimum 100-lb (45-kg) load capacity per pair, ball-bearing rollers, and positive stop. Mount drawer slides for self-closing on drawer housing as indicated.

#### 2.5 EXHAUST HOOD FABRICATION

- A. General: Fabricate hoods indicated from minimum 0.050-inch- (1.27-mm-) thick stainless steel, unless otherwise indicated. Comply with NFPA 96 and requirements of authorities having jurisdiction.
  - 1. Refer to Division 15 Sections for duct, fan, damper, and fire-extinguishing system requirements.
- B. Grease Removal: Provide removable, stainless-steel, baffle-type grease filters with spring-loaded fastening. Provide minimum 0.0781-inch- (1.984-mm-) thick, stainless-steel filter frame and removable collection basins or troughs.
- C. Light Fixtures: Provide NSF-certified fixtures with lamps, vapor-tight sealed lenses, and wiring in stainless-steel conduit on hood exterior.
- D. Exhaust-Duct Collars: Minimum 0.0625-inch- (1.588-mm-) thick stainless steel.

#### 2.6 STAINLESS-STEEL FINISHES

- A. General: Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations relative to applying and designating finishes.
  - 1. Remove or blend tool and die marks and stretch lines into finish.
  - 2. Grind and polish surfaces to produce uniform, directional textured, polished finish indicated, free of cross scratches. Run grain with long dimension of each piece.
- B. Concealed Surfaces: No. 2B finish (bright, cold-rolled, unpolished finish).
- C. Exposed Surfaces: No. 4 finish (bright, directional polish).
- D. When polishing is completed, passivate and rinse surfaces. Remove embedded foreign matter and leave surfaces chemically clean.
- E. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipment.

#### PART 3 – EXECUTION

#### **3.1 EXAMINATION**

- A. Examine areas and conditions, with Installer present, for compliance with requirements for installation tolerances, service-utility connections, and other conditions affecting installation and performance of food service equipment. Do not proceed with installation until unsatisfactory conditions have been corrected.
- B. Examine roughing-in for piping, mechanical, and electrical systems to verify actual locations of connections before installation.

#### 3.2 INSTALLATION, GENERAL

- A. Install food service equipment level and plumb, according to manufacturer's written instructions, original design, and referenced standards.
- B. Complete equipment field assembly, where required, using methods indicated.
  - 1. Provide closed butt and contact joints that do not require a filler.
  - 2. Grind field welds on stainless-steel equipment smooth, and polish to match adjacent finish. Comply with welding requirements in "Fabrication, General" Article.
- C. Install equipment with access and maintenance clearances according to manufacturer's written instructions and requirements of authorities having jurisdiction.
- D. Provide cutouts in equipment, neatly formed, where required to run service lines through equipment to make final connections.
- E. Except for mobile and adjustable-leg equipment, securely anchor and attach items and accessories to walls, floors, or bases with stainless-steel fasteners, unless otherwise indicated.
- F. Install cabinets and similar equipment on concrete or masonry bases in a bed of sealant.
- G. Install hoods to comply with NFPA 96 requirements and to remain free from vibration when operating.
- H. Install seismic restraints according to referenced SMACNA standard.
- I. Install trim strips and similar items requiring fasteners in a bed of sealant. Fasten with stainless-steel fasteners at 48 inches (1200 mm) o.c. maximum.
- J. Install sealant in joints between equipment and abutting surfaces with continuous joint backing, unless otherwise indicated. Provide airtight, watertight, vermin-proof, sanitary joints.
- K. Existing Equipment: Remove and reinstall existing equipment as per installation instructions ready for final connections by Division 15 and 16.

#### 3.3 PROTECTING

A. Provide final protection and maintain conditions, in a manner acceptable to manufacturer and Installer, that ensure food service equipment is without damage or deterioration at the time of Substantial Completion.

#### 3.4 COMMISSIONING

- A. Startup Services: Engage factory-authorized service representatives to perform startup services and to demonstrate and train Owner's maintenance personnel as specified below.
  - 1. Coordinate food service equipment startup with service-utility testing, balancing, and adjustments. Do not operate steam lines before they have been cleaned and sanitized.
  - 2. Remove protective coverings and clean and sanitize equipment, both inside and out, and re-lamp equipment with integral lighting. Where applicable, comply with manufacturer's written cleaning instructions.
  - 3. Test each equipment item for proper operation. Repair or replace equipment that is defective in operation, including units that operate below required capacity or that operate with excessive noise or vibration.

- 4. Test refrigeration equipment's ability to maintain specified operating temperature under heavy-use conditions. Repair or replace equipment that does not maintain specified operating temperature.
- 5. Test and adjust controls and safeties. Replace damaged and malfunctioning controls and equipment.
- 6. Test motors and rotating equipment for proper rotation and lubricate moving parts according to manufacturer's written instructions.
- 7. Test water, drain, gas, steam, oil, refrigerant, and liquid-carrying components for leaks. Repair or replace leaking components.
- 8. Train Owner's maintenance personnel on procedures and schedules related to startup and shutdown, troubleshooting, servicing, and preventive maintenance for each food service equipment item.
- 9. Review data in the operation and maintenance manuals. Refer to Division 1 Section "Contract Closeout."
- 10. Review data in the operation and maintenance manuals. Refer to Division 1 Section "Operation and Maintenance Data."

#### **END OF SECTION**



6320 La Pas Trail, Indianapolis, IN 46268 \* Phone: (317) 293-1533 \* lab@microair.com \* www.microair.com

May 9, 2023

Sycamore Environmental Dave Ellis 113 Woodridge Terre Haute, IN 47803

#### Polarized Light Microscopy (PLM) Bulk Sample Results

Project Name:	Rea Park Club House	Location: Terre Haute, IN
Project Number:	N/A	Date Received: May 4, 2023

Enclosed please find the results of samples analyzed by the Micro Air, Inc. laboratory.

Samples were analyzed by 40 CFR Part 763 Appendix E to Subpart E - Interim Method for the Determination of Asbestos in Bulk Insulation Samples using Polarized Light Microscopy (PLM) with Dispersion Staining. Where appropriate, analytical procedures outlined in the EPA Method/600/R-93/116, Method for the Determination of Asbestos in Bulk Building Materials (July 1993) may also be used during analysis. All samples may be heated to release fibrous material.

Samples are considered asbestos-containing material (ACM), as defined by the EPA, when asbestos is found in greater than 1% of the sample. Sample percentages are calculated using comparative visual estimation (CVES). Asbestos regulations and EPA methods state that distinct layers must be analyzed and reported separately. If composite analysis is requested and performed on multi-layered samples, the sample is considered ACM if any quantity of asbestos is found. This report should not be used to imply product or service endorsement by NVLAP, NIST, or any agency of the U.S. Government.

Disclaimer: PLM results of non-friable organic bound (NOB) materials, such as floor tiles and roofing materials, can be inconclusive due to analytical difficulties in standard bulk sample analysis techniques. If desired, results can be confirmed with transmission electron microscopy (TEM) to ensure that asbestos has not been missed during PLM analysis.

This report may not be reproduced, except in full, without written approval from Micro Air, Inc. These results only relate to the items tested and are only as accurate as the sampling information submitted by the customer (e.g. air volumes). Samples are received in good condition unless otherwise noted.

If this report has been forwarded, please contact Sycamore Environmental with any questions regarding these results.

Analyzed By:

Darren A. Parsons

Authorized By:

Betsie LMafee

Betsie L. McAfee Technical Manager

Client:	Sycamore Environmental
Report Date:	5/9/2023
Lab Number:	167693

Project Number:N/AProject Name:Rea Park Club House

### **Polarized Light Microscopy (PLM) Bulk Sample Results**

Location: Terre Haute, IN

Sample	Client	Date	Date	Sample Description	Asbestos	Color	Homogeneous	Sample	Composition
ID	Sample ID	Collected	Analyzed		Present?			Asbestos	Non-Asbestos
001	RP-01A	2/17/2023	5/9/2023	Plaster; S. by Kt Door	NO	W	YES	N/A	Cellulose <1% Binder 100%
002	RP-01B	2/1/170	5/9/2023	Plaster; NW Stair Landing	NO	W	YES	N/A	Cellulose <1% Binder 100%
003	RP-01C	2/17/2023	5/9/2023	Plaster; Basement by NW Stairs	NO	W	YES	N/A	Cellulose <1% Binder 100%

Color: B-Black, BL-Blue, BR-Brown, CL-Clear, GL-Gold, G-Gray, GR-Green, O-Orange, P-Pink, PR-Purple, R-Red, S-Silver, T-Tan, W-White, Y-Yellow

Betsie L. McAfee has reviewed this final report and has taken overall technical responsibility for the data.



Mr. David Ellis Sycamore Environmental 113 Woodridge Terre Haute, IN 47803

March 24, 2023

ENVision Project Number: 2023-542 Client Project Name: Rea Park

Dear Mr. Ellis,

Please find the attached analytical report for the samples received March 21, 2023. All test methods performed were fully compliant with local, state, and federal EPA methods unless otherwise noted. The project was analyzed as requested on the enclosed chain of custody record. Please review the comments section for additional information about your results or Quality Control data.

Feel free to contact me if you have any questions or comments regarding your analytical report or service.

Thank you for your business. ENVision Laboratories looks forward to working with you on your next project.

Yours Sincerely,

Meryl 4. Crum

Cheryl A. Crum

Director of Project Management ENVision Laboratories, Inc.



Client Name:	SYCAMORE ENVIRONMEN	NTAL		
Project ID:	REA PARK			
Client Project Manager:	DAVID ELLIS			
ENVision Project Number:	2023-542			
Analytical Method: Prep Method:	EPA 6010B EPA 3050B			
Client Sample ID: Envision Sample Number: Sample Matrix:	RPP-1A 23-4688 solid	Sample Collection Date/Time: Sample Received Date/Time:	2/17/23 3/21/23	11:00
<u>Compounds</u> Lead	Sample Results (mg/kg) 2,680	Reporting Limit (mg/kg) 2	<u>Flags</u>	
Analysis Date/Time: Analyst Initials: Date Digested: Initial Sample Weight: Final Volume: <b>Analytical Batch:</b>	3-24-23/13:48 gjd 3/23/2023 1.0 g 50 mL 032423icp			



Client Name:	SYCAMORE ENVIRONMEN	NTAL		
Project ID:	REA PARK			
Client Project Manager:	DAVID ELLIS			
ENVision Project Number:	2023-542			
Analytical Method: Prep Method:	EPA 6010B EPA 3050B			
Client Sample ID: Envision Sample Number: Sample Matrix:	RPP-2A 23-4689 solid	Sample Collection Date/Time: Sample Received Date/Time:	2/17/23 3/21/23 1	1:00
<u>Compounds</u> Lead	<u>Sample Results (mg/kg)</u> 14	Reporting Limit (mg/kg) 2	<u>Flags</u>	
Analysis Date/Time: Analyst Initials: Date Digested: Initial Sample Weight: Final Volume: <b>Analytical Batch:</b>	3-24-23/13:50 gjd 3/23/2023 1.0 g 50 mL 032423icp			



Client Name:	SYCAMORE ENVIRONME	NTAL		
Project ID:	REA PARK			
Client Project Manager:	DAVID ELLIS			
ENVision Project Number:	2023-542			
Analytical Method: Prep Method:	EPA 6010B EPA 3050B			
Client Sample ID: Envision Sample Number: Sample Matrix:	RPP-3A 23-4690 solid	Sample Collection Date/Time: Sample Received Date/Time:	2/17/23 3/21/23	11:00
<u>Compounds</u> Lead	Sample Results (mg/kg) 2,670	Reporting Limit (mg/kg) 2	<u>Flags</u>	
Analysis Date/Time: Analyst Initials: Date Digested: Initial Sample Weight: Final Volume: <b>Analytical Batch:</b>	3-24-23/13:52 gjd 3/23/2023 1.0 g 50 mL 032423icp			



Client Name:	SYCAMORE ENVIRONMEN	NTAL	
Project ID:	REA PARK		
Client Project Manager:	DAVID ELLIS		
ENVision Project Number:	2023-542		
Analytical Method: Prep Method:	EPA 6010B EPA 3050B		
Client Sample ID: Envision Sample Number: Sample Matrix:	RPP-3B 23-4691 solid	Sample Collection Date/Time: Sample Received Date/Time:	2/17/23 3/21/23 11:00
<u>Compounds</u> Lead	Sample Results (mg/kg) 2,770	Reporting Limit (mg/kg) 2	<u>Flags</u>
Analysis Date/Time: Analyst Initials: Date Digested: Initial Sample Weight: Final Volume: <b>Analytical Batch:</b>	3-24-23/13:55 gjd 3/23/2023 1.0 g 50 mL 032423icp		



Client Name:	SYCAMORE ENVIRONMEN	NTAL		
Project ID:	REA PARK			
Client Project Manager:	DAVID ELLIS			
ENVision Project Number:	2023-542			
Analytical Method: Prep Method:	EPA 6010B EPA 3050B			
Client Sample ID: Envision Sample Number: Sample Matrix:	RPP-4A 23-4692 solid	Sample Collection Date/Time: Sample Received Date/Time:	2/17/23 3/21/23	11:00
<u>Compounds</u> Lead	Sample Results (mg/kg) 2,920	Reporting Limit (mg/kg) 2	<u>Flags</u>	
Analysis Date/Time: Analyst Initials: Date Digested: Initial Sample Weight: Final Volume: <b>Analytical Batch:</b>	3-24-23/13:57 gjd 3/23/2023 1.0 g 50 mL 032423icp			



#### EPA 6010B Metals Quality Control Data

ENVision Batch Number:	032423icp			
Method Blank (MB):	MB Results (mg/kg)	Rep Lim (mg/kg)	Flag	
Lead	< 2	2		
Analysis Date/Time:	3-24-23/13:39			
Analyst Initials:	gjd			
Laboratory Control Standard:	LCS Results(ppm)	LCS Conc(ppm)	<u>% Rec</u>	Flag
Lead	0.47	0.50	94%	
Analysis Date/Time:	3-24-23/13:36			
Analyst Initials:	gjd			



ENVision Laboratories, Inc. 1439 Sadlier Circle West Drive Indianapolis, IN 46239 Tel: 317.351.8632 Fax: 317.351.8639 www.envisionlaboratories.com

Flag Number

**Comments** 



ENVision Project #: 202'3 - 542 of

# CHAIN OF CUSTODY RECORD

ENVision Laboratories, Inc. [1439 Sadlier Circle West Drive, Indianapolis, IN 46239] Phone: 317-351-8632 Fax: 317-351-8639

Client: Sycamore Environmental	Invoice Address: S	ame	-				S	ample Integrity:
Report Address: 113 Woodridge			RE	QUESTED	PARAME	rers	0	poler Temp: AND °C
Terre Haute, IN 47803	Project Name: Rea	ı Park					S	amples on ice? Yes (No)
		OWNERS - INC.	-				S	amples Intact? (Yes' No
Report To: David Ellis	Lab contact: Dav	vid Ellis					0	ustody Seal? Yes CNa
Phone: 812-878-9133	Sampler: David E	Ellis	(8			「日本のない」	ш	VVision provided bottles? Yes (No.)
e-mail: ellis.dave4@protonmail.com	P.O. #:		οτο				>	als free of head space? Yes No(N)
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