ALBANY READINESS CENTER - CONSTRUCT NEW MAINTENACE BUILDING

STATE OF MISSOURI
MICHAEL L. PARSON
GOVERNOR

OWNER:

DEPARTMENT OF PUBLIC SAFETY

MISSOURI ARMY NATIONAL GUARD

PROJECT	OFFICE OF ADMINISTRATION
MANAGEMENT:	DIVISION OF FACILITIES
	MANAGEMENT, DESIGN AND
	CONSTRUCTION

CLARK& ENERSEN



- PROJECT LOCATION

ALBANY READINESS CENTER 411 COLLEGE ST ALBANY MO, 64402 DESIGNER: CLARK & ENERSEN

PROJECT NUMBER: T232701

A/E PROJECT NUMBER: 050-021-24

SHEET NUMBER: G-000 10/23/2024

REFERENCE SYMBOLS



BOTTOM indicates consecutive number assigned to instrument type.

GENERAL NOTES

- 1. ALL DISCIPLINES SHALL BE RESPONSIBLE FOR THEIR SCOPE OF WORK. THIS WORK IS TO BE SCHEDULED AND COMPLETED WITH THE GENERAL CONTRACTOR'S FULL KNOWLEDGE.
- 2. ALL DIMENSIONS LOCATING PLUMBING FIXTURES ARE FROM FINISH MATERIAL NOT FROM GPDW SHEATHING.
- 3. FINAL CLEANING REMOVE OR REPAIR DAMAGED OR SOILED SPOTS ON NEWLY PAINTED WALLS AND ON ALL NEWLY INSTALLED WORK. REMOVE DUST AND DEBRIS FROM ALL NEW WORK.



POST-MOUNTED PROTRUDING OBJECTS

LIMITS OF PROTRUDING OBJECTS

SCALE: 1/4" = 1'-0"

ADA - PROTRUDING OBJECTS (307)

STANDARD ABBREVIATIONS

CONTR.

CORR COV PL

CRCMF

DRCI SR

DVTI

DWC

FMFF

ENCL

FNG

EQL SP

FQUIF FOUIV

FSCAL

FXH HD

FXH FN

EXST GR

FXP

EXSP.

FIN G FIN I

FI R

FLR SK

FLR PL

FLR FIN

FLT GL

FLUOR

FOM

FRM

FRN

FURR.

FXTR.

GALV_

EMER SHR.

CPRS

COORD_

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GL	GLASS
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GLZ	
GND	GROUND
GPDW GR BM	GYPSUM DRY WALL GRADE BEAM
GR	GRADE
GUT	GUTTER
GYP PLAS	GYPSUM GYPSUM PLASTER
H H&CW	HIGH HOT AND COLD WATER
HB	HOSE BIBB
HC	HANDICAP HOLLOW CORE
HCMU HD	HOLLOW CONCRETE MASONRY UNIT
HDJT	HEAD JOINT
HDR	
HDWD HGT	HARDWOOD HEIGHT
HLB	HORIZONTAL LOUVER BLINDS
HMD	HOLLOW METAL DOOR
HMF HNDRL	HOLLOW METAL FRAME HAND RAIL
HO	HOLD-OPEN HORIZONTAL
HR	
по HSB	HIGH STRENGTH
HTG HVAC	HEATING VENTILATION AIR CONDITIONING
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ID	HYDRANI INSIDE DIAMETER
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кв КО	KNEE BRACE
KOP KPL	KNOCKOUT PANEL KICK PLATE
KWY	KEYWAY
LAB	LABORATORY
LAV	LAVATORY POUND
LAV LB LBR LCMU	LAVATORY POUND LUMBER LIGHTWEIGHT CONCRETE MASONRY UNIT
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LATCH APPROACH, PULL SIDE

HINGE APPROACH, PULL SIDE

42" MIN

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 \Rightarrow 36" MIN

HINGE APPROACH, PULL SIDE

ADA - DOORS, DOORWAYS, AND GATES (404)

FRONT APPROACH,

PUSH SIDE

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LATCH APPROACH,

PUSH SIDE



LATCH APPROACH, PUSH SIDE, DOOR PROVIDED WITH CLOSER

STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR



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OFFICE OF ADMINISTRATION DIVISION OF FACILITIES, MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF PUBLIC SAFETY

MISSOURI ARMY NATIONAL GUARD

CONSTRUCT NEW MAINTENACE BUILDING

ALBANY READINESS CENTER

411 College St Albany MO, 64402

PROJECT #: T232701

SITE #: 6251 ASSET #: 8136251003

REVISION: DATE: **REVISION:**

DATE: **REVISION:** DATE:

ISSUE DATE: 11/15/24

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SHEET TITLE:

Sheet Index, General Notes, Symbols & Abbreviations

SHEET NUMBER:

G-002**BID DOCUMENTS** 11/15/24

GENERAL NOTES

- THE CONTRACTOR SHALL MAINTAIN STRICT LATERAL CLEARANCE AS SHOWN ON THE PLANS FOR ALL UTILITY LINES.
- IN ANY OF THE MAIN OR SERVICE ROUTES ARE ADJUSTED IN THE FIELD BY THE CONTRACTOR, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TO THE ENGINEER A RECORD OF THE EXACT LOCATIONS, AT THE CONTRACTOR'S EXPENSE, A LICENSED SURVEYOR SHALL BE RETAINED TO LOCATE THE UTILITY ROUTES. THE CONTRACTOR SHALL PROVIDE THE SURVEYED LOCATIONS TO THE ENGINEER IN ELECTRONIC FORMAT
- ALL TRENCHES SHALL BE BACKFILLED AND COMPACTED.
- THE CONTRACTOR SHALL RESTORE ANY DISTURBED AREA TO ITS PREVIOUS CONDITION.
- THE CONTRACTOR SHALL VERIFY ALL VERTICAL AND HORIZONTAL CROSSINGS OF ALL PROPOSED AND EXISTING UTILITIES PRIOR TO INSTALLATION OF CONDUIT. CONTACT THE ENGINEER WITH ANY CONFLICTS.

WATER SERVICE NOTES

- PRIOR TO FINAL ACCEPTANCE ALL WATER MAIN PIPE SHALL BE PRESSURE TESTED BY THE CONTRACTOR
- PRIOR TO FINAL ACCEPTANCE ALL WATER MAIN PIPE SHALL BE DISINFECTED BY THE CONTRACTOR 2.
- WHERE THE WATER MAIN IS TO BE CONSTRUCTED BELOW OR WITHIN 18 INCHES OF ANY SEWER PIPE, THE CONTRACTOR SHALL LAY A FULL LENGTH OF WATER MAIN PIPE CENTERED ON THE SEWER OR SUCH LENGTH AS WILL PROVIDE THE MAXIMUM POSSIBLE SEPARATION OF THE JOINTS IN THE WATER MAIN FROM THE SEWER LINE. IF NOT ALREADY SO, THE CONTRACTOR SHALL CONSTRUCT SANITARY SEWER WITH ONE 20 FOOT NOMINAL LENGTH OF PRESSURE PIPE MATERIAL CENTERED ON THE WATER MAIN AS PROVIDED IN SECTION 22.02(B), SUCH THAT THE MAXIMUM POSSIBLE SEPARATION BETWEEN THE WATER MAIN AND THE SEWER PIPE JOINTS WILL RESULT. THE BACKFILL MATERIAL SHALL BE SELECT. LOW PERMEABILITY SOIL
- AT ALL WATER MAIN CROSSINGS, SANITARY SEWERS SHALL BE LAID AT SUCH AN ELEVATION THAT THE TOP OF THE SANITARY SEWER IS AT LEAST 18 INCHES 4. BELOW THE BOTTOM OF THE WATER MAIN.
- 5. ALL WATER MAIN CONSTRUCTION TO BE DONE UNDER A PLUMBERS PERMIT AND SHALL COMPLY WITH ALL APPLICABLE BUILDING CODES.
- WATER SERVICE PIPE SHALL HAVE A 4.0' MINIMUM BURY DEPTH AS MEASURED FROM FINISHED GROUND TO TOP OF PIPE 6.
- SITE SHALL BE TO FINISHED GRADE PRIOR TO INSTALLATION OF WATER SERVICE. 7.
- 8. MATERIAL OF PIPE SHALL BE PER LOCAL CODES AND REGULATIONS.
- 9. REFER TO PLUMBING PLANS FOR WATER SERVICE TIE-INS WITH BUILDING.

STORM SEWER NOTES

- 1. ALL STORM PIPE SHALL HAVE SMOOTH INTERIOR WALLS
- 2. PRIOR TO FINAL ACCEPTANCE, THE CONTRACTOR SHALL HAVE THE EXISTING STORM SEWER CCTV INSPECTED AND ANY CONCERNS SHALL BE REPORTED TO ENGINEER AND OWNER

SANITARY SEWER SERVICE NOTES

- 1. SANITARY SEWERS SHALL BE SEPARATED BY AT LEAST 10 FT. HORIZONTALLY FROM ANY EXISTING OR PROPOSED PARALLEL WATER MAINS, MEASURED EDGE TO EDGE.
- AT ALL WATER MAIN CROSSINGS, SANITARY SEWERS SHALL BE LAID AT SUCH AN ELEVATION THAT THE TOP OF THE SANITARY SEWER IS AT LEAST 18 INCHES BELOW THE BOTTOM OF THE WATER MAIN. REPORT ANY CONFLICTS TO ENGINEER AND OWNER.
- ALL SANITARY SEWER WILL BE DONE UNDER A PLUMBERS PERMIT, AND SHALL COMPLY WITH ALL APPLICABLE BUILDING CODES.
- 4. PRIOR TO FINAL ACCEPTANCE ALL SEWER MAIN SHALL BE LOW-PRESSURE AIR TESTED ACCORDING TO ASTM STANDARDS FOR THE PIPE MATERIAL INSTALLED.
- PRIOR TO FINAL ACCEPTANCE, THE CONTRACTOR SHALL HAVE THE SEWER MAIN, NEW AND EXISTING, CCTV INSPECTED AND ANY CONCERNS SHALL BE REPORTED TO ENGINEER AND OWNER.
- REFER TO PLUMBING PLANS FOR SANITARY SEWER TIE-INS WITH BUILDING.
- ALL PIPE AND FITTINGS LESS THAN 12-INCHES SHALL BE SCHEDULE 40 PVC OR OTHER APPROVED MATERIAL
- 8. ALL 4-INCH SANITARY SEWER PIPES SHALL HAVE MINIMUM SLOPES OF 1.0%





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STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR



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SHEET TITLE: Site Utilities Profiles & Details

SHEET NUMBER:

C-102 **BID DOCUMENTS** 11/15/24

SYMBOLS LEGEND

----- 1071----- EXISTING CONTOUR ----- OHE ---- OHE ---- OVERHEAD ELECTRIC LINE _____ W_____ W_____ W____ WATER LINE -s -s -s -s -s -s - STORM SEWER LINE — ss — ss — ss — ss — ss — SANITARY SEWER LINE

DEMO LEGEND:



EXISTING GRAVEL PAVEMENT

GENERAL NOTES & INFORMATION

- 1. THE SURVEY WAS COMPLETED BY -. PHONE: -.
- 2. EXISTING UTILITIES DEPICTED ON THESE PLANS ARE BASED ON FIELD MEASUREMENTS AND AVAILABLE RECORDS; THEREFORE, LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE ADDITIONAL UTILITIES, THE EXISTENCE OF WHICH, AT PRESENT, IS NOT KNOWN. VERIFICATION OF THE LOCATIONS OF UNDERGROUND UTILITIES, SHOWN OR NOT SHOWN, UTILITY LOCATES WILL BE REQUIRED PRIOR TO CONSTRUCTION. CONTACT THE MISSOURI ONE CALL SYSTEM AT 1-800-DIG-RITE (1-800-344-7483) PRIOR TO EXCAVATION OR DEMOLITION.
- 3. HORIZONTAL & VERTICAL CONTROL WERE DERIVED FROM THE MISSOURI DEPARTMENT OF TRANSPORTATION'S REAL-TIME NETWORK. THE HORIZONTAL CONTROL IS UTILIZING THE MISSOURI STATE PLANE COORDINATE SYSTEM, WEST ZONE, CONVERTED TO U.S. SURVEY FEET AND THE VERTICAL CONTROL IS BASED FROM NAVD88 DATUM.
- 4. CITY OF ALBANY ASSISTED WITH THE DEPTH OF THE SANITARY SEWER MANHOLE IN COLLEGE STREET AND THE SERVICE LINE TIE IN LOCATION (AS NOTED ON DRAWINGS).
- 5. RECORD DRAWINGS WERE REFERENCED ON THE NORTH AND EAST SIDE OF BUILDING WITH MINIMAL FIELD DATA. THE SOUTH SIDE AND WEST SIDE OF THE BUILDING (AREA WITH EXISTING CONTOURS) IS DEPICTED FROM UTILIZING FIELD DATA.
- 6. THE CONTRACTOR SHALL VERIFY ALL EXISTING SITE CONDITIONS SHOWN ON PLAN, ANY DISCREPANCIES NOTICED IN FIELD SHALL BE RELAYED TO LANDSCAPE ARCHITECT / OWNER PRIOR TO COMMENCEMENT OF ANY WORK.
- 7. THE GENERAL CONTRACTOR SHALL PRESERVE AND PROTECT ALL EXISTING UTILITIES TO REMAIN DURING CONSTRUCTION.
- 8. THE GENERAL CONTRACTOR SHALL PRESERVE AND PROTECT ALL EXISTING PLANTING BEDS, SHRUBS AND TREES TO REMAIN ON SITE. DO NOT PARK, DRIVE OR STACK CONSTRUCTION MATERIALS IN THESE AREAS.
- 9. THE GENERAL CONTRACTOR SHALL NOT REMOVE OR ALTER ANY PROTECTION FENCING WITHOUT PRIOR WRITTEN CONSENT FROM OWNER AND LANDSCAPE ARCHITECT.

DEMOLITION NOTES

- 1. CONTRACTOR TO PRESERVE ALL SURVEY CONTROL POINTS
- CONTRACTOR MUST PROTECT THE PUBLIC AT ALL TIMES WITH FENCING, SIGNING, BARRICADES, ENCLOSURES, ETC. TO THE BEST PRACTICES AND APPROVED BY THE OWNER AND THE CITY OF ALBANY, MO.
- 3. DAMAGE TO ALL EXISTING CONDITIONS TO REMAIN WILL BE REPLACED AT CONTRACTOR'S EXPENSE.
- 4. THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION, REMOVAL, AND DISPOSING IN A LOCATION APPROVED BY ALL GOVERNING AUTHORITIES OF FENCE, FLUMES, FOUNDATIONS, DRIVES, DRAINAGE STRUCTURES, UTILITIES, ETC. (EXCEPT WHERE NOTED BY ENGINEER). SUCH THAT THE IMPROVEMENTS SHOWN ON THE REMAINING PLANS CAN BE CONSTRUCTED. ALL FACILITIES TO BE REMOVED SHALL BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT TO GRADE WITH SUITABLE COMPACTED FILL MATERIAL PER SPECIFICATIONS.
- 5. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL DEBRIS FROM THE SITE AND DISPOSING THE DEBRIS IN A LAWFUL MANNER. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR THE DEMOLITIONS AND DISPOSAL.
- 6. ALL EXISTING SEWERS, PIPING AND UTILITIES SHOWN ARE NOT TO BE INTERPRETED AS THE EXACT LOCATION, OR AS THE ONLY OBSTACLES THAT MAY OCCUR ON THE SITE. VERIFY EXISTING CONDITIONS AND PROCEED WITH CAUTION AROUND ANY ANTICIPATED FEATURES. GIVE NOTICE TO ALL UTILITY COMPANIES REGARDING DESTRUCTION AND REMOVAL OF ALL SERVICE LINES AND CAP ALL LINES BEFORE PROCEEDING WITH THE WORK. UTILITIES DETERMINED TO BE ABANDONED AND LEFT IN PLACE SHALL BE GROUTED IF UNDER BUILDING.
- 7. ELECTRICAL, TELEPHONE, CABLE, WATER, FIBER OPTIC CABLE AND/OR GAS LINES NEEDING TO BE REMOVED, RELOCATED, AND/OR ABANDONED SHALL BE COORDINATED WITH THE AFFECTED UTILITY COMPANY. ADEQUATE TIME SHALL BE PROVIDED FOR RELOCATION AND CLOSE COORDINATION WITH THE UTILITY COMPANY IS NECESSARY TO PROVIDE A SMOOTH TRANSITION IN UTILITY SERVICE. CONTRACTOR SHALL PAY CLOSE ATTENTION TO EXISTING UTILITIES WITHIN THE CONSTRUCTION LIMITS DURING CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY CONCERNING PORTIONS OF WORK WHICH MAY BE PERFORMED BY THE UTILITY COMPANY'S FORCES.
- ALL SIDEWALK & PAVEMENT TO REMAIN SHALL BE PROTECTED IN PLACE INCLUDING PROTECTION FROM DAMAGE CAUSED BY REMOVAL OF ABUTTING CONCRETE. THE CONTRACTOR SHALL SAW CUT, FULL DEPTH AT NEAREST JOINT.
- 9. DO NOT DISRUPT UTILITY SERVICES TO ADJACENT BUSINESSES OR RESIDENCES WITHOUT PRIOR WRITTEN APPROVAL BY THE ARCHITECT OR OWNER.



 \bigcirc



GRADING LEGEND

PROPOSED CONTOUR LINE PROPOSED SPOT ELEVATION 🛛 💥 ELEVATION



PROPOSED SLOPE MATCH EXISTING BUILDING PAVEMENT BREAK POINT



GRADING NOTES:

1. CONTRACTOR TO PRESERVE ALL SURVEY CONTROL.

2. THE GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING SITE CONDITIONS SHOWN ON PLAN. ANY DISCREPANCIES NOTED IN THE FIELD SHALL BE RELAYED TO THE LANDSCAPE ARCHITECT AND OWNER PRIOR TO THE COMMENCEMENT OF WORK.

3. UNDERGROUND IMPROVEMENTS ARE UNKNOWN, UTILITY LOCATIONS ARE SHOWN IN APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO EXISTING UTILITIES AND SHALL REPAIR ANY SUCH DAMAGE AT HIS OWN EXPENSE. THE CONTRACTOR SHALL HAVE ALL UTILITIES LOCATED THROUGH THE 'ONE CALL' SYSTEM BEFORE DIGGING.

5. CONTRACTOR TO FOLLOW ALL GEOTHECHNICAL RECOMMENDATIONS FOR SUBGRADE PREPARATION.

6. ANY GEOTECHNICAL/TESTING REPORTS SOLICITED BY THE CONTRACTOR SHALL BE SUBMITTED TO THE OWNER AND THE LANDSCAPE ARCH./ENGINEER.

7. ALL LINES SHOWN REPRESENTING PAVEMENT ARE TO BACK OF CURB OR EDGE OF PAVEMENT, UNLESS OTHERWIS NOTED.

8. THE PROPOSED CONTOURS REPRESENT TOP OF SLAB, OR TOP OF SIDEWALK IN PAVEMENT, IN ALL OTHER AREAS, THEY REPRESENT THE FINISHED GROUND SURFACE.

10. CONTRACTOR WILL BE HELD RESPONSIBLE FOR SETTLEMENT DUE TO IMPROPER COMPACTION.

11. AT THE COMPLETION OF GRADING, THE CONTRACTOR SHALL REMOVE ANY EXCESS EXCAVATION FROM THE SITE. EXCEPT FOR REQUIRED TOPSOIL REQUIRED FOR RE-SPREAD.

12. CONTRACTOR IS RESPONSIBLE FOR ALL TRAFFIC CONTROL AND SAFETY MEASURES, IF NECESSARY.

13. PROVIDE POSITIVE DRAINAGE AT ALL TIMES WITHIN THE CONSTRUCTION AREA. DO NOT ALLOW WATER TO FLOW OR POND IN EXCAVATION AREAS.

CONTROL POINTS				
POINT #	DESCRIPTION	ELEVATION	NORTHING	EASTING
60	BP	38.40	1487135.22	2837573.34
59	ME/PVMT	39.32	1487147.11	2837585.31
58	ME/PVMT	39.51	1487147.25	2837574.12
57	ME/PVMT	40.12	1487147.29	2837556.27
56	ME/PVMT	40.12	1487147.31	2837549.12
55	PVMT	36.30	1487079.75	2837599.89
54	BLDG	36.46	1487079.80	2837589.91
53	PVMT	36.38	1487117.25	2837595.10
52	PVMT	36.38	1487121.75	2837595.12
51	BLDG	36.46	1487117.28	2837590.11
50	BLDG	36.46	1487121.78	2837590.14
49	PVMT	36.30	1487126.37	2837600.14
48	PVMT	36.38	1487126.39	2837595.15
47	PVMT	38.47	1487128.42	2837590.15
46	BLDG	38.50	1487126.42	2837590.14
45	PVMT	38.47	1487128.64	2837544.75
44	BLDG	38.50	1487126.64	2837544.75
43	BLDG	37.00	1487126.64	2837539.75
42	PVMT	36.43	1487125.63	2837542.75
41	BLDG	36.46	1487125.64	2837544.75

CONTROL POINTS				
POINT #	DESCRIPTION	ELEVATION	NORTHING	EASTING
40	PVMT	36.43	1487080.05	2837542.52
39	BLDG	36.46	1487080.05	2837544.53
38	PVMT	36.43	1487034.47	2837542.29
37	BLDG	36.46	1487036.45	2837544.30
36	PVMT	36.43	1487034.30	2837573.63
35	BLDG	36.46	1487036.30	2837573.66
34	BLDG	36.46	1487036.25	2837584.64
33	PVMT	36.43	1487034.25	2837584.61
32	PVMT	36.40	1487032.75	2837584.63
31	PVMT	36.40	1487032.73	2837588.63
30	PVMT	36.25	1487032.68	2837599.64
29	BLDG	36.46	1487036.23	2837588.64
28	BLDG	36.46	1487036.22	2837589.68
27	PVMT	36.30	1487036.23	2837599.66
26	TOP OF HEADWALL	31.50	1487015.02	2837485.07
25	DRAIN OUTLET	30.00	1487014.56	2837484.60
24	ME/GDE	32.75	1487012.07	2837573.29
23	ME/GDE	32.00	1487011.33	2837627.32
22	ME/PVMT	31.00	1487010.93	2837657.43







CONTROL POI -----ELEVAT _____ 36.43 36.46 36.4¢ 36.4¢ 36.4¢ 36.4¢ 36.4¢

> INSTALL SILT FENCE AT PERIMETER OF THE SITE AND AROUND ALL STORM SEWER INLETS AS REQUIRED TO PREVENT SILT FROM LEAVING THE SITE/ ENTERING INLETS, INSTALL 'J' HOOKS ALONG SILT FENCE AS REQUIRED TO PREVENT FENCE FAILURE, SEE DETAILS:

INSTALL SHORT TERM EROSION CONTROL -BLANKET ON 25% SLOPES AS SHOWN, REF SPECIFICATION





IRRIGATION NOTE: - IRRIGATION IS NOT AVAILABLE AT THE SITE AND WILL NEED TO BE PROVIDED BY CONTRACTOR FROM AN OFF-SITE SOURCE

SEED TYPE 'A', SEE LEGEND THIS SHEET SEED ALL AREAS DISTURBED DURING CONSTRUCTION OPERATIONS









STATE OF MISSOURI





GENERAL INFORMATION LOCATION: Albany Maintenance Building 411 College St Albany MO, 64402 PROJECT DESCRIPTION

A new pre-engineered metal building to be used for non-hazardous equipment storage. APPLICABLE CODES

- 2021 International Building Code (IBC) 2021 International Plumbing Code (IPC)
- 2021 International Mechanical Code (IMC) 2021 International Fire Code (IFC)
- 2020 National Electric Code (NEC)
- 2021 International Fuel Gas Code (IFGC) 2010 NFPA 72 National Fire Alarm Code

Americans With Disabilities Act Accessibility Guidelines (ADAAG) American National Standards Institute (ANSI) 117.1 Guidelines for Accessible & Useable Buildings & Facilities

OCCUPANCY/ STRUCTURAL CLASSIFICATION

One-story pre-engineered metal building on slab-on-grade. Exterior walls will be insulated metal panel. Roof structure will be single-slope standing

ENERGY CODE ANALYSIS

Code: International Energy Conservation Code (IECC 2021)

Compliance Path: Prescriptive

Climate Zone: 5A

ACTIVE LIFE SAFETY SYSTEMS:

Fire Alarm: Smoke Detection: Exit Signs: Emergency Lighting: Suppression-Automatic: Fire Extinguishers:

Required/Provided: Per NFPA 72 Required/Provided: Per NFPA 72 Required/Provided Required/Provided Not Required Required/Provided: Per NFPA 10

CODE ITEM	
OCCUPANCY CLASSIFICATION:	U
CONSTRUCTION TYPE:	TYPE IIB - UNSPRINKLED
INCIDENTAL USE SEPARATIONS:	NA
BUILDING HEIGHT: (2021 IBC TABLE 504.4)	
ALLOWABLE	3
ACTUAL	1
BLDG. SQ. FT. : (2021 IBC TABLE 506.2)	
ALLOWABLE PER FLOOR	8,500 sf
MODIFIED PER SECTION 506	14,875 sf
ACTUAL	3,880 sf

KEY NOTES (FLOOR PLANS ONLY)

CHAIN LINK PARTITION; PROVIDE GATES AS INDICATED ON THE DRAWINGS. REF SECTION 323113.

- TRENCH DRAIN, REF MEP
- 3 STOOP, REF STRUCTURAL 4 6" CONCRETE BOLLARDS

GENERAL PLAN NOTES

- 1. THE GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS SHOWN ON THE PLANS PRIOR TO COMMENCEMENT OF THE WORK. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO COORDINATE INSTALLATION OF NEW WORK WITHIN THESE EXISTING CONDITIONS. ANY DEVIATIONS IN EXISTING CONDITIONS OR DIMENSIONS INDICATED SHALL BE COORDINATED WITH THE ARCHITECT AND OWNER.
- 2. ALL WALL / GENERAL PLAN DIMENSIONS ARE TO FACE OF MASONRY, FACE OF CONCRETE, FACE OF GYP. BOARD, AND FACE OF METAL PANEL, TYP.
- 3. CONSTRUCTION OF WALLS ARE DESIGNATED STARTING ON TAG SIDE OF WALL.
- 4. CONTRACTOR TO COORDINATE SPACING OF STUDS W/MECH. AND ELECTRICAL DRAWINGS.
- 5. ALL WALL FRAMING THAT DOES NOT EXTEND TO STRUCTURE OR DECK SHALL BE BRACED AT 48" O.C. MIN.

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DEPARTMENT OF PUBLIC SAFETY

MISSOURI ARMY NATIONAL GUARD

CONSTRUCT NEW MAINTENACE BUILDING

ALBANY READINESS CENTER

411 College St Albany MO, 64402

PROJECT #: T232701

SITE #: 6251 ASSET #: 8136251003

REVISION:

DATE: **REVISION:** DATE: **REVISION:**

DATE:

ISSUE DATE: 11/15/24

DRAWN BY: MC CHECKED BY: RW DESIGNED BY: MC

SHEET TITLE: First Floor Plan & Reflected Ceiling Plan

SHEET NUMBER:

A-100 **BID DOCUMENTS** 11/15/24







EXTERIOR MATERIALS KEY

CONCRETE	CAST-IN-PLACE CONCRETE
MP-2	PREFINISHED FORMED METAL WALL PANELS (BASIS-OF-DESIGN COLOR: SURREY BEIGE)
MP-1	PREFINISHED FORMED METAL WALL PANELS (BASIS-OF-DESIGN COLOR: PATRICIAN BRONZE)
METAL ROOF	PRE-FINISHED STANDING SEAM METAL ROOF (BASIS-OF-DESIGN COLOR: PATRICIAN BRONZE)

$\langle 1 \rangle$	KEY NOTES (EXTERIOR ELEVATIONS ONLY)
1	METAL GUTTER AND DOWNSPOUT; PAINT TO MATCH MP-1
2	HVAC GRILLE; REF MEP; ALIGN EDGE OF GRILLE WITH EXTERIOR PATTERN AS SHOWN IN ELEVATION
3	SHEET METAL EYELASH CANOPY, REF 4/A500, PAINT TO MATCH MP-1

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DRAWN BY: MC CHECKED BY: RW DESIGNED BY: MC

SHEET TITLE: **Exterior Elevations**

SHEET NUMBER:

A-200 **BID DOCUMENTS** 11/15/24







BID DOCUMENTS 11/15/24

STATE OF MISSOURI



DOOR & FRAME TYPE GENERAL NOTES

- 1. ALL DIMENSIONS ARE NOMINAL. ACTUAL DIMENSIONS TO BE PROVIDED BY SUPPLIER W/ ADJUSTMENTS MADE FOR INSTALLATION TOLERANCES REQUIRED. VERIFY ALL EXISTING OPENINGS PRIOR TO ORDER OF ALL NEW DOORS AND DOOR FRAMES.
- 2. SEE FLOOR PLANS FOR DIRECTION OF DOOR SWINGS.

BID DOCUMENTS

11/15/24

GENERAL STRUCTURAL NOTES AND DESIGN CRITERIA

STRUCTURAL DESIGN	V CRITER	IA	STRUCTURAL MA	TERIALS	
BUILDING CODE			CONCRETE		
International Building Code, 2018 Edition			Compressive strength (strength of a standard	l 6" diameter x 12" cylinder at 28 days):	
			USE	REQ'D STRENGTH EXPOSUR	E CA
VERTICAL LOADS	Dead	Live	Footings, Grade Beams, Retaining Walls, Sit	ework 4500 psi F2, S0, W1	I, C1
Use or Occupancy (2)	Load (1)(5)	Load (1)	Slabs-On-Grade, Mech. Pads, Sitework	4500 psi F2, S0, W1	, C1
Floors and Stairs on Grade Roof Framing	50 psf 20 psf	200 psf 20 psf			
NOTES:			NOMINAL UNIT WEIGHT: 145 pcf for norma CEMENT: ASTM C150 Type I, ASTM C150	॥-weight concrete. Type III or ASTM C595 Type 1L.	
 Uniform load to be applied over the full tributar See Framing Plans for concentrated loads fror Where applicable, drifting was considered. Where applicable, 5 psf for rain-on-snow is inc Self-weight of framing structure and elevated s 	y area of each structural n mechanical units, hoists luded. slabs not included.	member. and other equipment.	ADMIXTURES: As approved. Do not use an ENTRAINED AIR: 2% to 4% by volume in co laser screed. See SPECIFICATIONS for ren	y admixtures containing more than 0.1 percent chlor procrete not exposed to freezing or thawing that is lev naining concrete work.	ride ic veled l
ROOF SNOW LOADS			CONCRETE MASONRY UNITS		
Ground Snow Load Snow Exposure Factor		P _g = 25 psf C _e = 0.9	ASTM C90, nominal weight (125 pcf), f'cmu =	· 1900 psi (net area)	
Snow Load Importance Factor		$I_s = 1.0$	MASONRY MORTAR AND GROUT		
Flat Roof Snow Load		$P_f = 20 \text{ psf}$	MORTAR: ASTM C270 Type S, f'mortar = 1 GROUT: ASTM C476, f'g = 2000 psi	300 psi	
DESIGN SOIL BEARING PRESSURES					
Maximum Vertical Pressures Full Vertical Loads - Continuous Footings		1500 psf	CONCRETE AND MASONRY REINFORCING	ical	
Full Vertical Loads - Individual Footings		1500 psf	WELDED WIRE MESH: ASTM A185, flat sh MASONRY JOINT REINFORCING: Standar A951, galvanized after fabrication	eets d ladder-type with 9 gage wires, wire to conform to <i>i</i>	ASTM
SEISMIC DESIGN FACTORS					
Site Class Definition Risk Category		D II	STRUCTURAL AND MISCELLANEOUS STEEL		
Importance Factor Response Modification Coefficient		$I_E = 1.00$ R = 3.00	W-SHAPES: ASTM A992, fy = 50,000 psi		
Seismic Response Coefficient	($C_{\rm s} = 0.03$	M -SHAPES, S-SHAPES, HP-SHAPES, CH/ SPECIFIED: ASTM A36, fy = 36,000 psi STRUCTURAL TUBING UNLESS OTHERW	NNELS, ANGLES, AND PLATES UNLESS OTHER	₹WISE / = 46,
Short Period Spectral Response Accelerations 1 Second Spectral Response Acceleration 1 Second Spectral Response Acceleration	econds)	$S_{\rm S} = 0.098$ $S_{\rm 1} = 0.068$	PIPE: ASTM A53, Type E or S, grade B, fy	- 35,000 psi	
Maximum Considered Spectral Response Accelerations	econdo)	- 0.405		G	
1 Second Spectral Response Acceleration (0.2 s	Seconds) S	$D_{DS} = 0.105$ $D_1 = 0.109$	See GENERAL NOTES - COLD-FORMED S	TEEL on this Sheet for required section properties.	
Seismic Design Category			0 0538 INCH (54 MIL) AND HEAVIER MEM	3ERS ASTM A1003 ST50H fv = 50 000 psi	
Short Period Response Acceleration 1 Second Response Acceleration		A B	0.0428 INCH (43 MIL) AND LIGHTER MEME	ERS: ASTM A1003, ST33H, fy = 33,000 psi	
Analysis Procedure	Equivalent Lateral Fo	prce Procedure	BOLTS AND NUTS		
Dasic Seismich orcentesisting System	Steel ordinary more		CAST-IN ANCHOR BOLTS		
WIND DESIGN FACTORS			Anchor Rod: ASTM F1554 Grade 36, C Plate Washers: ASTM A36	irade 55 & Grade 105	
Wind Speed Region			Nuts: ASTM A563, grade DH, hexagon	al	
Basic Design Wind Speed		V = 112 mph	Bolt-Nut-Washer Assemblies: ASTM Fi Bolts: Type 1, heavy hexagonal of	125 Grade F1852N round head	
Enclosure Classification		Enclosed	Wasners: ASTM F436, Type 1, na Nuts: ASTM A563, grade DH, hea	rdened (at all slotted holes)	
Exposure Mean Roof Height		h=22.5 ft	OTHER Bolts: ASTM F3125 Grade A325N grad	de A. hexagonal heads	
Ground Elevation Factor	l L	K _e = 1.00 K _{et} = 1.00	Nuts: ASTM A563, grade DH, hexagon	al	
	r				
Longitudinal Dimension Transverse Dimension		L _L = 120 ft L _T = 88 ft			
Components & Cladding Velocity Pressure Components & Cladding Internal Pressure Coefficient	G	q _h = 25.24 psf c _{pi} = 0.18			

CONCRETE

	 GENERAL. Unless otherwise shown or specified, supply and construct concrete in accordance with ACI 318" Building Code Requirements for Structural Concrete" and ACI 301 "Specifications for Structural Concrete for Buildings". Except as otherwise shown, detail reinforcing in accordance with the latest edition of the Concrete Reinforcing Steel Institute (CRSI) Placing Manual. 	1.
F2, S0, W1, C1 F2, S0, W1, C1 F2, S0, W1, C1	 REINFORCING. Hooks in reinforcing which are not otherwise detailed shall be standard ACI hooks. Splices in reinforcing which are not otherwise detailed shall be standard ACI Class B tension lap splices, but splice length shall not be less than 24 inches. 	2.
	3. PLACEMENT OF REINFORCING AND OTHER ITEMS. Reinforcing, dowels, bolts and any other inserts shall be fastened securely into position before concrete is placed. Drilled-in expansion anchors shall not be used except where specifically shown on the drawings. The spacings shown for reinforcing and other anchorage items are maximums. Provide and install a sufficient number of items so that the spacings shown are not exceeded. The first and last items in a group of uniformly spaced items shall be located at not more than one-half the typical spacing nor 12 inches from the end of a structural element.	3.
percent chloride ions. ing that is leveled by a	4. CONTINUITY OF HORIZONTAL REINFORCEMENT	
с ,	a. Footings, walls, turned-down slab edges: Bars shall be lapped not less than 36 bar diameters nor 24 inches. Except where bar lengths are given, reinforcing is to be continuous for the full length or width of member less required concrete covers. Do not splice transverse bars at footings. Additional reinforcing shall be provided at corners, intersections and other discontinuities as shown on the Drawings.	4.
	 b. Grade beams & continuous footings that run over the top of (or are integral with) pad footings shall have reinforcing that is continuous over (or through) the pad footings. 	5.
	c. Concrete slabs-on-grade: Welded wire mesh shall be lapped not less than one mesh nor 6 inches on all sides.	
	d. Elevated slabs and beams: No splices except as shown or where approved by EOR.	6.
	5. CONSTRUCTION JOINTS	
o conform to ASTM	 Slabs-on-grade: Control joints shall be located at 10'-0" on center each way maximum unless otherwise noted on drawings or as otherwise approved by the Architect. 	
ESS OTHERWISE	b. Footings, walls, turned-down slabs: Construction joints shall be placed at locations to be selected by the Contractor subject to the following restrictions. There shall be no construction joints within 5 feet of any corner or intersection. Construction joints in walls shall be offset from construction joints in footings by not less than 5 feet. Splices in reinforcing shall not be located within 5 feet of any construction joint in the concrete. Horizontal and vertical keyways not less than 2 inches deep by 4 inches wide shall be provided at all construction joints in walls and footings.	7.
, grade B, fy = 46,000 psi	c. Beams: Locate construction joints within the middle third of interior spans. Joints are not permitted in end spans. Reinforcing is to be continuous through joints and reinforcing is not to be spliced within 5 feet of joints. Provide additional reinforcing as shown in the Typical Beam Construction Joint Detail.	
	d. Columns: Construction joints are permitted only at tops of footings and above and below beams except as otherwise shown.	1
n properties. 00 psi	6. EMBEDDED PIPES AND CONDUITS. No pipes, conduits or any other items used by other trades except those shown on the Structural Drawings shall be embedded in concrete or pass through concrete members without the prior approval of the Architect/Engineer. See the SPECIFICATIONS for additional requirements.	
00 psi	 CONCRETE COVER. Provide concrete cover over reinforcing as noted below. Tolerance on position of reinforcing is plus or minus 3/8". 	2
	a. Concrete cast against and permanently exposed to earth: 3 inches	2.
	b. Concrete cast in forms but exposed to earth or weather in service: 2 inches.	3.
	 c. Concrete cast in forms but not exposed to earth or weather: 1) Walls and slabs: 1 inch 2) Beams and columns i) primary reinforcement: 2 inches i) ties and stirrups: 1 1/2 inches 	4.
	 8. EXTERIOR FOOTINGS. The bottom of all exterior footings shall not be less than 42 inches below the lowest adjacent finished grade. 	5.
	CONSTRUCTION PROCEDURES & SAFETY REQUIREMENTS	6.
	 Comply with all applicable city, county, state and federal laws, including the occupational safety and health act (OSHA) and regulations adopted pursuant thereto. 	
	 The structural contract documents represent the finished structure. They do not indicate the means and methods of construction, unless noted or indicated otherwise. 	7.
	3. Provide all measures necessary to protect the workers and all other persons during construction. Provide	

- all necessary measures to avoid excessive stresses and to hold the structural elements in place during construction. Such measures shall include, but not be limited to: bracing, shoring for construction equipment, shoring for earth banks, forms, scaffolding, planking, safety nets, support and bracing for cranes and hoists, guying, etc...
- Engage properly qualified persons to determine where and how temporary precautionary measures shall be used. Observation visits to the site by Structural Engineer's field representatives shall not include above noted items.
- 5. Supervise and direct the work so as to maintain sole responsibility for all construction means, methods, techniques, sequences, and procedures.

EARTHWORK

- GENERAL. Except at footings adjacent to existing construction, footings and slabs on grade shall be placed on engineered fill on prepared subgrade. Requirements for earthwork, including excavation, fill and backfill, unless specifically contained in these notes and the SPECIFICATIONS shall be in accordance with the current edition of the International Building Code.
- SITE CLEARING. All vegetation and other organic matter, pavement, existing construction and man-made fill (except as otherwise directed), and any other unsuitable material shall be removed from site and properly disposed of.
- EXCAVATION AND PROTECTION OF EXCAVATIONS. Remove existing material as required to meet site grading elevations. Do not undercut existing construction. Provide positive surface drainage away from excavations and promptly remove any surface water which may enter the excavations. Remove any subgrade material and any previously placed fill or backfill which has been softened or otherwise damaged by moisture. Replace with properly placed and compacted fill or backfill. Slope sides of excavations as required for slope stability and provide barricades, lights and warning signs as necessary for the protection of existing property, construction personnel and the public.
- PREPARATION OF SUBGRADE. After excavations have been completed and/or surface has been cleaned and grubbed, the subgrade shall be scarified, disced or otherwise loosened to a minimum depth of 6 inches, moistened or dried as necessary (to within -2 to +2 percentage points of optimum moisture content), and compacted to not less than 95% of maximum density as determined by ASTM D1557 or ASTM D698, whichever is applicable.
- FILL AND BACKFILL. All fill and backfill material shall be clean, free of organic or frozen matter, and any other unsuitable material, and is to be approved by the Architect before use. Site material may be used if it meets the specified material property requirements. If site material does not meet the requirements, use imported materials or a uniform mix of site and imported materials which do meet the specified requirements. See the SPECIFICATIONS for gradation, plasticity index and other fill material requirements.
- PLACING AND COMPACTION OF FILL AND BACKFILL. See the SPECIFICATIONS for compaction requirements for fill and backfill. Perform compaction when the material to be compacted is at its optimum moisture content (+2 or -2 percentage points). Thoroughly mix water into the soil mass to be compacted so the moisture content of the soil is uniform. Perform compaction using appropriate equipment and methods as necessary to achieve the required density percentages without damage to existing construction. Do not use ponding, flooding, jetting or similar methods to aid in compaction.
- QUALITY CONTROL. Maximum densities and optimum moisture contents shall be determined in accordance with ASTM D1557 or ASTM D698, whichever is applicable. Density of in-place material shall be determined in accordance with either ASTM D1556 (sand cone method), D6938 (nuclear method) or D2167 (rubber balloon method), whichever is applicable. Gradations of materials shall be determined in accordance with ASTM D422. Liquid limits, plastic limits and plasticity indices shall be determined in accordance with ASTM D4318. See the SPECIFICATIONS for additional requirements and testing schedule.

TEEL

- GENERAL. Unless otherwise shown or specified, perform all steel work in accordance with the applicable requirements of the International Building Code, the American Institute of Steel Construction (AISC) "Steel Construction Manual", the Steel Joist Institute (SJI) "Standard Specifications, Load Tables and Weight Tables for Steel Joists and Joist Girders" and the Steel Deck Institute (SDI) "Design Manual for Floor and Roof Decks". If there should be conflicts among these documents, the provisions of the more restrictive shall govern.
- MATERIALS. Material requirements for structural steel members are given in the STRUCTURAL MATERIALS section on this sheet.
- THREADED FASTENERS. Except as specifically shown otherwise, use ASTM F1852N high strength tension control bolt-nut-washer assemblies with Type 1 heavy hexagonal head bolts and Grade DH heavy hexagonal nuts at all steel-to-steel connections. Provide hardened washers conforming to ASTM F436 Type 1 at all slotted holes. Provide anchor bolts fabricated from steel conforming to ASTM F 1554.
- WEB CONNECTIONS. Except as otherwise shown, plates and structural tees used to connect webs of beams to columns shall be offset from column centerlines so that vertical centerplanes of beams and columns coincide.
- HOLES. Holes in plates, structural tees and angles used for web connections shall be standard AISC short slots with long dimension of slot to be in the direction of the beam span. Holes in beams shall be standard round holes. Except as specifically shown otherwise in the Details and Sections, center to center spacing of slotted holes in the direction perpendicular to the long direction of the slot shall not be less than 3 inches except that holes in beam flanges perpendicular to direction of beam span shall be at standard gage. Other holes shall be spaced as shown. Provide AISC standard oversize holes in column base plates.
- GROUT. Non-shrink grout beneath base plates shall be placed by the dry-pack method. Grout shall be placed after steel framing has been erected, leveled and plumbed and shall be allowed to cure for not less than 24 hours before additional loads are applied to the framing. Grout placed in adverse weather shall be protected from freezing or other damage and the curing time before the imposition of additional loads shall be increased as necessary to obtain strength equivalent to that which would be achieved if favorable curing conditions existed.
- WELDING SCHEDULE. Unless otherwise shown, welds shall be in accordance with the following schedule. All welds scheduled are fillet welds.

column
seat
ıt

ROOF OPENINGS. Coordinate w/ Mechanical, Structural, & Architectural all openings through roof. All openings with an area over 36" square must be supported as shown in the Structural Details.

G St	NERAL. Unless otherwise shown or specified el Institute (AISI) "Cold-Formed Structural Ste adard sections detailed in the Steel Struct Mark	d, conform to the requirements of the American Iron and eel Design Manual." Stud and track profiles shall be
51	Size Designation: [Depth (1/100 inch)][Typ	e: S=Stud, T=Track][Width (1/100 inch)]-[Thickness (Mil)]
M sh wi	MBER SECTION PROPERTIES. Except as Il have the following minimum section propert e. See the STRUCTURAL MATERIALS sect	otherwise shown, cold-formed steel structural framing members ties. All flanges of joists and studs shall be a minimum of 1-5/8" ion on this sheet for required material properties.
a.	600S162-54 "cee" studs/joists A = 0.556 in2, Ixe = 2.860 in4	
b.	600T125-54 deep leg tracks (minimun dept A = 0.480 in2, ly = 0.054 in4, lxe = 2.241 in	h = 1 1/4") 4
C SC SC SC SC SC SC SC SC SC SC SC SC SC	NNECTIONS. Make all connections (except aw attachments. Welding shall be performed cesses approved by the American Welding Se SI). See connection schedules below.	as specifically shown otherwise) by welding or with by welders currently certified and using welding ociety (AWS) and the American Iron and Steel Institute
à.	Connections at all non-load-bearing steel fra	aming to building structure attachments shall be capable vertical deflection without transferring vertical loads.
Al Jr (8)	CHORAGE TO CONCRETE. 1" long (minimu ess specifically noted otherwise. Minimum wo o 1 safety factor).	um) power driven fasteners spaced at 16" on center orking load shear capacity of each fastener = 225 pounds
S [.]	JD SPACING. Typical stud spacing: 16 inch rsections, jambs of openings, centered benea	es on center. Provide and install double studs at corners, ath joists and as otherwise shown.
_/ or	ERAL SUPPORT. Follow manufacturer's re- ging and bracing, whichever are most restrict ructions for walls subject to both axial load ar	commendations or Specification requirements for wall tive. At exterior fascias/canopies, follow manufacturer's nd bending.
LI cc le (w st at	TEL BEAMS. Unless otherwise designed by structed per Exterior Framing Steel Stud Hea s) shall be constructed of two 6"x54 mil unpur th of track equal to width of wall) top and bot el stud lintels shall be constructed of unpunch east one full-height king stud at ends of lintel.	qualified professional engineer, typical lintels shall be ader Schedule. Typical lintels (over openings 6'-0" wide, or nched joists (6" dimension vertical) with 54 mil thick tracks tom unless otherwise shown. All 54 mil or heavier built-up red joists. Lintels shall bear on a jack stud at each end with
W ac le	LDING SCHEDULE. Unless otherwise noted ordance with the following schedule. All weld gths are given, welds are to be placed along t	d, welding of cold-formed steel framing shall be in is scheduled are fillet welds. Except where specific weld he full length of the members being joined.
a. b. c. d. f.	CONNECTION stud to track track to beam stud to plate or beam bridging or bracing to stud angle on top of bearing wall to track multiple studs or joists	WELD 1/8" both flanges 1/8" x 1" @ 12" on center both flanges 1/8" 1/8" 1/8" top and bottom 1/8" x 1" @ 24" on centers each side each pair of members
g. Si sh ot	2x top plate to steel stud track REW ATTACHMENT SCHEDULE. Unless of Il be in accordance with the following schedul erwise. Screws with low profile heads shall b	therwise noted, screwing of cold-formed steel framing le. All screws scheduled are self-drilling unless noted e used at locations to be finished with drywall.
a. b. c. d. f.	CONNECTION stud to track track to beam stud to plate or beam bridging or bracing to stud angle on top of bearing wall to track multiple studs or joists	SCREWS 2 - #10 both flanges 2 - #12 @ 16" on center (self-drilling, self-tapping) 2" x 54 mil clip angle w/ 2 - #10 each leg of clip angle 2" x 54 mil clip angle w/ 2 - #10 each leg of clip angle #10 - each stude (self-drilling, self- tapping) 2" x 54 mil flat strap w/ #10 each stud @ 24" o.c., each side
E	QUIRED IBC SPE RUCTURAL INSF	ECIAL PECTIONS
Al R	Special Structural Inspections shall be provide	ed by the Owner, per IBC 2018, Chapter 17. ctions for additional information.
X	STING CONDITI	ONS
	Conoral Contractor shall varify all existing di	imensions and conditions prior to commencement of the

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MAINTENANCE BUILDING

ALBANY READINESS CENTER

411 College St Albany MO, 64402

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DATE: **REVISION:**

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ISSUE DATE: 11/15/2024

DRAWN BY: DB CHECKED BY: <u>D</u>N DESIGNED BY: DN

SHEET TITLE:

Structural Notes

SHEET NUMBER:

S-000**BID DOCUMENTS** 10/23/2024

SEE CONCRETE WALL CONSTRUCTION JOINT DETAIL ON SHEET S3.01 FOR TYPICAL CIP WALL CONSTRUCTION JOINTS. SEE SPECIFICATIONS FOR SPACING REQUIREMENTS

9.	INDICATES TOP OF FOOTING ELEVATION.
10. T.O.W. = XX' - XX"	INDICATES TOP OF CIP WALL ELEVATION.
11. —	INDICATES STRUCTURAL SLAB SPAN DIRECTION. LONGITUDINAL BARS SHALL RUN PARALLEL TO SPAN DIRECTION. TRANSVERSE BARS SHALL RUN PERPENDICULAR TO SPAN DIRECTION.
12. •	INDICATES TOP OF CONCRETE SLAB ELEVATION.
13.	INDICATES 6" CONCRETE SLAB ON GRADE w/ \$4's @ 12" O.C. EACH WAY OVER VAPOR RETARDER OVER 4" GRANULAR BASE.
14. <u> </u>	INDICATES 5" CONCRETE SLAB w/ \$4's @ 12" O.C. EACH WAY

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REVISION: DATE: **REVISION:**

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Plan

ISSUE DATE: 11/15/2024

DRAWN BY: DB CHECKED BY: DN DESIGNED BY: DN

SHEET TITLE: Footing & Foundation

SHEET NUMBER:

S-101 BID DOCUMENTS 10/23/2024

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PROFESSIONAL SEAL

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2020 Baltimore Ave. Suite 300 Kansas City, MO 64108 p. 816-474-8237

OFFICE OF ADMINISTRATION **DIVISION OF FACILITIES, MANAGEMENT, DESIGN AND CONSTRUCTION**

DEPARTMENT OF PUBLIC SAFETY

MISSOURI ARMY NATIONAL GUARD

MAINTENANCE BUILDING

ALBANY READINESS CENTER

411 College St Albany MO, 64402

PROJECT #: T232701

SITE #: 6251 ASSET #: 8136251003

REVISION:

DATE: **REVISION:** DATE: **REVISION:**

DATE:

ISSUE DATE: 11/15/2024

DRAWN BY: DB CHECKED BY: <u>DN</u> DESIGNED BY: DN

SHEET TITLE: **Typical Foundation** Details

SHEET NUMBER:

S-301 BID DOCUMENTS 10/23/2024

MECHANICAL ABBREVIATIONS AND SYMBOLS LEGEND

ABBREVIATIONS

АГГ	ADOVE FINISHED FLOOR
BTU	BRITISH THERMAL UNIT
CW	DOMESTIC COLD WATER
	DOMESTIC WATER
	DOWESTIC WATER
EA	EXHAUSTAIR
EC	ELECTRICAL CONTRACTOR
FMCS	ENERGY MANAGEMENT AND CONTROL SYSTEM
FL	FLOW LINE
G	GAS
GC	GENERAL CONTRACTOR
HP	HORSEPOWER
цD	
HVV	
HWC	DOMESTIC HOT WATER CIRCULATING
LAT	LAY IN TILE
МС	MECHANICAL CONTRACTOR
MD	
NIC	
OBD	MANUAL OPPOSED BLADE BALANCING DAMPER
RA	RETURN AIR
RFI A	RELIEE AIR
৩৪	
SP	STATIC PRESSURE
TAB	TEST, ADJUST AND BALANCE
ТОД	
T/D	TEMPERATI IRE/DRESSI IRE
15P	TOTAL STATIC PRESSURE
V	VENT
W	SANITARY WASTE PIPING (INSIDE BUILDING)
WB	WET BUI B
vN	NEW FOLIIPMENT DEVICE ETC
<u> </u>	EXISTING CONDITION TO BE REMOVED OR RELO
XXX-1	EQUIPMENT MARK - SEE MECHANICAL OR PLUME
	(E.G., AHU-1 - AIR HANDLING UNIT)
X (E)	EXISTING CONDITION. GENERAL

		PIPING
	Q	BALL VALVE
	J B	ELBOW DOWN
		ELBOW UP
		TEE DOWN
		TEE UP
		SHEET METAL
	12/6	RECTANGULAR DUCT - FIRST NUMBER INDICATES SIZE SHOWN
	+ 12Ø +	ROUND DUCT
	12/60	OVAL DUCT - FIRST NUMBER INDICATES SIZE SHOWN
		FLEX DUCT
		TURNING VANES
	\boxtimes	POSITIVE PRESSURE DUCT UP
	X	POSITIVE PRESSURE DUCT DOWN
		NEGATIVE PRESSURE DUCT UP
		NEGATIVE PRESSURE DUCT DOWN
NG EQUIP. SCHEDUL	ES <u>80</u> 300	CEILING DIFFUSER - EQUIPMENT MARK, SIZE, CFM
	R-1 1278 300	SIDEWALL REGISTER - EQUIP. MARK, SIZE, CFM, HEIGHT AFF
	<u> </u>	CEILING RETURN GRILLE - EQUIP. MARK, SIZE, CFM
		GENERAL
	•	CONNECTION - NEW TO EXISTING
	S 🖲	PIPE OR ROUND DUCT RISER
	\odot	PIPE OR ROUND DUCT DROP
		DIRECTION OF FLOW
	<u> </u>	DOWNWARD PIPE OR DUCT PITCH
		SECTION IDENTIFICATION SHEET NUMBER
		DETAIL IDENTIFICATION: SHEET NUMBER
	M	ELECTRICAL MOTOR
	100'-0"	ARCHITECTURAL ELEVATION
	100.00'	ENGINEER ELEVATION
	i	ELECTRICAL PANEL
	VFD-1	VARIABLE FREQUENCY DRIVE PANEL - EQUIP. MARK
	(E)	EXISTING PIPING, DUCTWORK, EQUIPMENT, ETC.

GENERAL MECHANICAL NOTES:

1. GENERAL

- THESE NOTES SHALL APPLY TO ALL MECHANICAL/PLUMBING PLANS.
- NOTE THAT THE MECHANICAL PLANS ARE TO A GREAT EXTENT SCHEMATIC IN NATURE AND THAT THE INFORMATION PRESENTED IS EXACT AS COULD BE SECURED. THE CONTRACTOR SHALL OBTAIN EXACT LOCATIONS, MEASUREMENTS, LEVELS, ETC., AT THE SITE AND SHALL SATISFACTORILY ADAPT HIS WORK TO THE ACTUAL CONDITIONS AT THE PROJECT SITE.
- THE CONTRACTOR IS RESPONSIBLE FOR PROPER SUPPORT OF ALL EQUIPMENT, PIPING, DUCTWORK, ETC. COORDINATE INSTALLATION OF ALL EQUIPMENT, PIPING, DUCTWORK, ETC. WITH OTHER BUILDING TRADES.
- SEE SPECIFICATION SECTIONS 22 05 00 AND 23 05 00 FOR OTHER GENERAL MECHANICAL REQUIREMENTS.
- ALL EXPOSED MECHANICAL ITEMS WILL BE FIELD-PAINTED. ALL ITEMS SHALL BE PROPERLY ORDERED AND PREPARED TO ACCEPT PAINT. COORDINATE EXACT REQUIREMENTS WITH PAINTING CONTRACTOR. SEE ARCHITECTURAL AND FINISH DRAWINGS AND SPECIFICATIONS FOR AREAS AND ITEMS THAT WILL BE PAINTED. 2 PIPING
- UNLESS NOTED OTHERWISE, WASTE PIPING HAS BEEN DESIGNED TO ACCOMMODATE A SLOPE OF 1/8" PER LINEAR FOOT FOR PIPING GREATER THAN 3" IN DIAMETER AND A SLOPE OF 1/4" PER LINEAR FOOT FOR 3" AND SMALLER DIAMETER PIPE.
- PIPE HANGERS SUSPENDED FROM STRUCTURAL FLOOR OR ROOF JOIST AND SUPPORTING MORE THAN 200 LBS SHALL BE ATTACHED TO THE TOP MEMBER OF THE JOIST.

MICHAEL L. PARSON, GOVERNOR
AUSTIN RUEL NUMBER PE-2023035248 NUMBER PE-2023035248 NUMBER NUMBER PE-2023035248 NUMBER PE-2023035248 NUMBER PE-2023035248 NUMBER PE-2023035248 NUMBER PE-2023035248 NUMBER PE-2023035248 NUMBER PE-2023035248 NUMBER PE-2023035248
CLARK& ELARK& ENERSEN 2020 Baltimore Ave. Suite 300 Kansas City, MO 64108 p. 816-474-8237
OFFICE OF ADMINISTRATION DIVISION OF FACILITIES
MANAGEMENT, DESIGN AND CONSTRUCTION
DEPARTMENT OF PUBLIC SAFETY
MISSOURI ARMY NATIONAL GUARD
CONSTRUCT NEW MAINTENANCE BUILDING
ALBANY READINESS CENTER
411 College St Albany MO, 64402
PROJECT #: T232701

STATE OF MISSOURI

ASSET #: 8136251003

REVISION: DATE: **REVISION:** DATE:

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ISSUE DATE: 11/15/2024

DRAWN BY: AR CHECKED BY: <u>AR</u> DESIGNED BY: <u>AR</u>

SHEET TITLE: Mechanical Abbreviations, Symbols & Notes

SHEET NUMBER:

M-000BID DOCUMENTS 11/15/2024

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4" W SEE CIVIL FOR CONT.

	DAMPER SCHEDULE OPER MARK: FUNCTION: CONDI MD-1 MOTORIZED DAMPER AMBIE MD-2 MOTORIZED DAMPER AMBIE	ATING ITIONS:	AIRFLOW VELOCITY (CFM): (FPM): 1,025 300 1,025 300	MOUNTING POSITION: BLADE STYLE: VERTICAL PARALLEL VERTICAL PARALLEL	FRAME CONSTRUCTION _5" x 16-GA GALVANIZED HAT-SHAPE 5" x 16-GA GALVANIZED HAT-SHAPE	:BLADE D CHANNEL16 GAUGE GALV D CHANNEL16 GAUGE GALV	E CONSTRUCTION	LEAKAGE 2 CFM / S.F. @ 1" \ 2 CFM / S.F. @ 1" \	BLAD SEAL VG PD NEOPR VG PD NEOPR	EEDGE:BF S:EDGE:BF ENESSS) ENESSS)	EARINGS:ACTUATOR:1	MANUF. OR EQUIVALENT: RUSKIN RUSKIN	MODEL:	STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR
<form></form>														* RUEL NUMBER BF-2023035248
	1. 24-VOLT, TWO-POSITION, NORMALLY CLOSED.													IN STONAL E
										WAST		HW		11/15/24
				WH-1 WALL HYDRANT	HYDRANT:	WOODFORD MODEL 67 FROST PROOF AUTOMATIC DRAIN FROST PROOF HYDRANT WITH ASSE 1052 APPROVED TW CHROME FINISH 3/4" HOSE CONNECTION STAINLESS STE OPERATING HANDLE, SEE NOTE 3	NING, /O CHECK BACK FLOW PREVENT EL STEM, LOOSE KEY	ER,					3/4"	PROFESSIONAL SEAL
				TD-1 TRENCH DRAIN	DRAIN:	ZURN 886 HIGH DENSITY POLYETHYLENE (HDPE) TRENCH REVEAL WITH 4" THROAT, 883 INCHES LONG. PROVIDE (MODEL Z886-HD-E1-DGE SEE NOTE REMARKS: SEE NOTES 3 AND 5	H DRAIN CHANNEL. 6-1/4" WIDE CLASS "E" DUCTILE IRON SLOTTE	D GRATES.						ENERSEN
Image: Second secon				CB-1 CATCH BASIN	BASIN:	ZURN Z887-12. 12"x24"x24" HDPE CATCH BASIN WITH CLAS MODEL Z887-12-HDG-E4-DGE-IA-IA. REMARKS: SEE NOTES 3 AND 4	SS "E" DUCTILE IRON SLOTTED G	RATES.		4"				2020 Baltimore Ave. Suite 300 Kansas City, MO 64108
				PRV-1 PRESSURE REGULATING VALVE	G VALVE:	ZURN 3-500XL SET TO 80 PSI CONTRACTOR TO DETERMINE SET PRESSURE DURING B	ALANCING						3/4"	p. 816-474-8237
				REFER TO ARCHITECTURAL INTERIOR ELEV	ATIONS FOR FIXTURE MOUNTING HE	EIGHTS OR MOUNT AT MANUFACTURERS RECOMMENDED HEI	GHTS.							
				1) MINIMUM SIZE OF UNDER SLAB VENT SHA	ALL BE 2".									
				2) ALL HANDICAPPED LAVATORIES (HL-#) SI P-TRAP INSULATION, HOT AND COLD WAT "K" VALUE OF 1.17 (BTU*IN/HR*FT^2*DEG F	HALL BE INSTALLED WITH P-TRAP AN ER ANGLE VALVE AND SUPPLY INSUL).	ID SUPPLY INSULATION. PROVIDE TRUEBRO MODEL #102 OR _ATION FABRICATED FROM CLOSED CELL VINYL, 3/16" WALL T	EQUAL WITH HICKNESS.							
				3) INSTALL PER MANUFACTURER'S RECOMI	MENDATIONS.									OFFICE OF
				5) DRAIN INTO CATCH BASIN AND CAP OPP	OSITE END.									ADMINISTRATION DIVISION OF FACULITIES
				BAC			DNS							MANAGEMENT, DESIGN AND CONSTRUCTION
				MAR BFP-	KSERVES_ 1DOMESTIC COLD	PEAK FLOW GPM WPD WATER 3 13.5 PSID	PRESSSURE SIZE 175 PSIG 3/4"	BODYINLET VAL BRONZENRS	VEOUTLET VALVE NRS	STANDARD A ASSE STD 1013, AWW	PPROVAL A C511, UL AND FM	BACKFLOW MFR. OF TYPE EQUIVALE RPZ WATTS	R MODEL REMARKS_ LF0091	DEPARTMENT OF PUBLIC SAFETY
				REMAR 1. REFE	KS: ER TO SPECIFICATION SECTION 22 1 ⁷	1 19 FOR ADDITIONAL REQUIREMENTS.								MISSOURI ARMY
						FAN SCHEDULE								INATIONAL GUARD
						MARK: TYPE: EF-1 DIRECT DRIVE	CFM: S.P. II 2,050 0	I. WG.: DRIVE: RPM: 25 DIRECT 822	SONES: HP: 6.4 3/4	ELECTRICAL DATA V: PH: 115 1	HZ: AND MC 60 GREENHECK	JFACTURER DDEL NUMBER: MODEL SQ-160-VG	REMARKS: 1,2,3	CONSTRUCT NEW MAINTENANCE BUILDING
														ALBANY READINESS
						2. PROVIDE WITH GRAVITY BACKDRAFT DAMPER. 3. INTERLOCK OPERATION WITH OUTSIDE AIR LO	UVERS.							CENTER
LOUVER SCHEDULE NERMAN 100 100 100 100 1000 1000 1000 1000 1						4. PROVIDE WITH VARIGREEN MOTOR. 5. MOUNT AT 14' 0".								411 College St
						LOUVER SCHEDULE								Albany MO, 64402
1 1								MINIMUM						PROJECT #: T232701
12 1000 12 100 12 100						OPERATING MARK: CONDITIONS:	TOTAL AIRFLOW SIZE: (CFM):	FREE AREA VELOCITY (SQFT): (FPM):	APD CO (IN. W.G.): [NSTRUCTION SCREE	N FINISH:	MFR. OR EQUIVALENT: M	IODEL: REMARKS:	SITE #: 6251
PHARS Introduit REFERENCE Introduit REFERENCE </td <td></td> <td></td> <td></td> <td></td> <td></td> <td>L-1 AMBIENT L-2 AMBIENT</td> <td><u> </u></td> <td>1.25 823 1.25 823 2.63 778</td> <td>0.08 GALV 0.08 GALV 0.09 GALV</td> <td>ANIZED STEEL BIRD ANIZED STEEL BIRD ANIZED STEEL BIRD</td> <td>SEE NOTE 1 SEE NOTE 1 SEE NOTE 1</td> <td></td> <td>L375D 1 L375D 1 L375D 1</td> <td>ASSET #: 8136251003</td>						L-1 AMBIENT L-2 AMBIENT	<u> </u>	1.25 823 1.25 823 2.63 778	0.08 GALV 0.08 GALV 0.09 GALV	ANIZED STEEL BIRD ANIZED STEEL BIRD ANIZED STEEL BIRD	SEE NOTE 1 SEE NOTE 1 SEE NOTE 1		L375D 1 L375D 1 L375D 1	ASSET #: 8136251003
1 NO COCK - 22 DEFENSION OUR VARIENT FOR SUFFICIENT SCHEDULE REVISION						REMARKS:	017,202,000		0,000,20	June 201222June	012.11012.1			REVISION:
GAS INFRARED HEATER SCHEDULE Image: Colspan=100 Impar: Im						1. TWO COAT - 70% PVDF FINISH. COLOR BY AR	CHITECT							REVISION: DATE:
HOR HOR HOR 10% HOR H							GAS INFR	ARED HEATER SCH	IEDULE					REVISION: DATE:
Web Veb Veb Rev 								HIGH	LOW					ISSUE DATE: 11/15/2024
IBH-1 7.11 N NC 65 50 NATURAL CASS REVEBBERARY HL2245 1.2.3.4,5.6 IBH-2 7.11 N NC 65 58 NATURAL CASS REVEBBERARY HL2245 1.2.3.4,5.6 IBH-3 7.11 N NC 65 58 NATURAL CASS REVEBBERARY HL22455 1.2.3.4,5.6 IBH-3 7.11 N NC 65 58 NATURAL CASS REVEBBERARY HL22455 1.2.3.4,5.6 IBH-3 7.11 N NC 65 58 NATURAL CASS REVEBBERARY HL22455 1.2.3.4,5.6 IBH-3 7.11 N NC 65 58 NATURAL CASS REVEBBERARY HL22455 1.2.3.4,5.6 IBH-3 7.11 N NC 65 58 NATURAL CASS REVEBERARY HL22455 1.2.3.4,5.6 IBH-3 7.11 N NC 65 58 NATURAL CASS REVEBERARY HL22455 1.2.3.4,5.6 IBH-3 7.11 N NC 85 58 NATURAL CASS REVEBERARY HL22455 1.2.3.4,5.6 IBH-2000000							MARK:	OPERATING INPUT	INPUT	FUEL:	MANUFACTURER	MODEL:	REMARKS:	DRAWN BY: AR CHECKED BY: AR
Image Prime CO SU Prime Prim Prim Prim Prim <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>IRH-1</td> <td>7-11 IN WC 65</td> <td>50</td> <td>NATURAL GAS</td> <td>RE-VERBER-RAY</td> <td>HL3-20-65</td> <td>1, 2, 3, 4, 5, 6</td> <td>DESIGNED BY: <u>AR</u></td>							IRH-1	7-11 IN WC 65	50	NATURAL GAS	RE-VERBER-RAY	HL3-20-65	1, 2, 3, 4, 5, 6	DESIGNED BY: <u>AR</u>
REMARKS: 1. MOUNT AT 14-0°. 2. MINIMUM CLEARANCE 6-1°TO COMPUSTIBLES BELOW REFLECTOR. 3. REFLECTOR DIRECTED DOWN. 4. PROJECT DOWNED INTAKE MTS. 5. INTERLOCK CONTROL WITH 2 STAGE WALL THERMOSTAT. 6. STAINLESS STEEL CONTRUCTION AND MOUNTED AT AT 45 DEG ANGLE TOWARD SPACE. 5. MINIERS STEEL CONTRUCTION AND MOUNTED AT AT 45 DEG ANGLE TOWARD SPACE. 6. STAINLESS STEEL CONTRUCTION AND MOUNTED AT AT 45 DEG ANGLE TOWARD SPACE. 5. MINIERS STEEL CONTRUCTION AND MOUNTED AT AT 45 DEG ANGLE TOWARD SPACE. 5. MINIERS STEEL CONTRUCTION AND MOUNTED AT AT 45 DEG ANGLE TOWARD SPACE. 5. MINIERS STEEL CONTRUCTION AND MOUNTED AT AT 45 DEG ANGLE TOWARD SPACE. 5. MINIERS STEEL CONTRUCTION AND MOUNTED AT AT 45 DEG ANGLE TOWARD SPACE. 5. MINIERS STEEL CONTRUCTION AND MOUNTED AT AT 45 DEG ANGLE TOWARD SPACE. 5. MINIERS STEEL CONTRUCTION AND MOUNTED AT AT 45 DEG ANGLE TOWARD SPACE. 5. MINIERS STEEL CONTRUCTION AND MOUNTED AT AT 45 DEG ANGLE TOWARD SPACE. 5. MINIERS STEEL CONTRUCTION AND MOUNTED AT AT 45 DEG ANGLE TOWARD SPACE. 5. MINIERS STEEL CONTRUCTION AND MOUNTED AT AT 45 DEG ANGLE TOWARD SPACE. 5. MINIERS STEEL CONTRUCTION AND MOUNTED AT AT 45 DEG ANGLE TOWARD SPACE. 5. MINIERS STEEL CONTRUCTION AND MOUNTED AT AT 45 DEG ANGLE TOWARD SPACE. 5. MINIERS STEEL CONTRUCTION AND MOUNTED AT AT 45 DEG ANGLE TOWARD SPACE. 5. MINIERS STEEL CONTRUCTION AND MOUNTED AT AT 45 DEG ANGLE TOWARD SPACE. 5. MINIERS STEEL CONTRUCTION AND MOUNTED AT AT 45 DEG ANGLE TOWARD SPACE. 5. MINIERS STEEL CONTRUCTION AND MOUNTED AT AT 45 DEG ANGLE TOWARD SPACE. 5. MINIERS STEEL CONTRUCTION AND MOUNTED AT AT 45 DEG ANGLE TOWARD SPACE. 5. MINIERS STEEL CONTRUCTION AND MOUNTED AT AT 45 DEG ANGLE TOWARD SPACE. 5. MINIERS STEEL CONTRUCTION AND MOUNTED AT AT 45 DEG ANGLE TOWARD SPACE. 5. MINIERS STEEL CONTRUCTION AND MOUNTED AT AT 45 DEG ANGLE TOWARD SPACE.							IRH-2	7-11 IN WC 65	50	NATURAL GAS	RE-VERBER-RAY	HL3-20-65	1, 2, 3, 4, 5, 6	SHEET TITLE:
REMARKS: 1. MOUNT AT 14-0". 2. MINIMUM OLEARDREFE 4" TO COMBUSTIBLES BELOW REFLECTOR. 3. REFLECTOR DREFEE 10 DOWN. 5. REFLECTOR OF VENT AND ROOF INTAKE KITS. 5. INTERLOCK CONTROL WITH 2 STAGE WALL THERROSTAT. 6. STAINLESS STEEL CONTRUCTION AND MOUNTED AT AT 45 DEG ANGLE TOWARD SPACE. 5. STAINLESS STEEL CONTRUCTION AND MOUNTED AT AT 45 DEG ANGLE TOWARD SPACE. 5. STAINLESS STEEL CONTRUCTION AND MOUNTED AT AT 45 DEG ANGLE TOWARD SPACE.												1120-20-00	·, ∠, 0, 7, 0, 0	Mechanical Schedules
2. WINIMUM DELARANCE 6-4 TO COMBUSTIBLES BELLOW REFLECTOR. 3. REFLECTOR 4. PROVIDE ROOF VENT AND ROOF INTAKE KITS. 5. INTERLOCK CONTROL WITH 2 STAGE WALL THERMOSTAT. 6. STAINLESS STEEL CONTRUCTION AND MOUNTED AT AT 45 DEG ANGLE TOWARD SPACE. 5. MINIMUM DELARANCE 6-4 TO COMBUSTIBLES BELLOW REFLECTOR. 5. MINIMUM DELARANCE 6-4 TO COMBUSTIBLES BELLOW REFLECTOR.							REMARKS: 1. MOUNT AT 14'-0" 2. MINIMUM CLEAR							
5. INTERLOCK CONTROL WITH 2 STAGE WALL THERMOSTAT. 6. STAINLESS STEEL CONTRUCTION AND MOUNTED AT AT 45 DEG ANGLE TOWARD SPACE. MI-201							REFLECTOR DIR A. PROVIDE ROOF	ECTED DOWN. (ENT AND ROOF INTAKE KITS.	ANLI LLUIUK.					SHEET NUMBER:
							5. INTERLOCK CON 6. STAINLESS STEE	TROL WITH 2 STAGE WALL THERMOS	TAT. T 45 DEG ANGLE TOWARD	SPACE.				ЛЛ 201

												STATE OF MISSO MICHAEL L. PAR GOVERNOR
BLADE STYLE: PARALLEL PARALLEL	FRAME CONSTRUCT 5" x 16-GA GALVANIZED HAT-SH 5" x 16-GA GALVANIZED HAT-SH	ION: APED CHANNEL APED CHANNEL	BLAD 16 GAUGE GAL 16 GAUGE GAL	E CONSTRUCTION VANIZED STEEL INSULATED VANIZED STEEL INSULATED		LEAKAGE _2 CFM / S.F. @ 1" WG PD 2 CFM / S.F. @ 1" WG PD	BLADE SEALS: DNEOPREI DNEOPREI	EDGE: B NE SS S NE SS S	EARINGS:ACTUATO YNTHETIC11 YNTHETIC1	MANUF. OR EQUIVALENT: RUSKIN RUSKIN	MODEL: REMARKS: CD-60 1 CD-60 1	AUSTIN
												* RUEL NUMBER PF-2023035248
												STONAL EN
								WAS	TEVEN	HW	CW TW	II/ 15/24
		FROST PROOF HYDRAN CHROME FINISH 3/4" HOS OPERATING HANDLE, SE	T WITH ASSE 1052 APPROVED TV SE CONNECTION STAINLESS STE EE NOTE 3	VOCHECK BACK FLOW PRE EEL STEM, LOOSE KEY	VENTER,						5/4	CLARK
TRENCH DRAIN	DRAIN:	ZURN 886 HIGH DENSITY REVEAL WITH 4" THROAT MODEL Z886-HD-E1-DGE REMARKS: SEE NOTES	Y POLYETHYLENE (HDPE) TRENC T, 883 INCHES LONG. PROVIDE SEE NOTE 3 AND 5	H DRAIN CHANNEL. 6-1/4" V CLASS "E" DUCTILE IRON SL	/IDE .OTTED GRATES.							ENERS
CATCH BASIN	BASIN:	ZURN Z887-12. 12"x24"x24 MODEL Z887-12-HDG-E4- REMARKS: SEE NOTES 3	4" HDPE CATCH BASIN WITH CLA DGE-IA-IA. 3 AND 4	SS "E" DUCTILE IRON SLOT	TED GRATES.			4"				2020 Baltimore Ave. Suite 300 Kansas City, MO 64108
PRESSURE REGULAT VALVE	NG VALVE:	ZURN 3-500XL SET TO 80 CONTRACTOR TO DETER) PSI RMINE SET PRESSURE DURING E	BALANCING							3/4"	p. 810-474-8237
TO ARCHITECTURAL INTERIOR ELI ING SCHEDULE NOTES: MUM SIZE OF UNDER SLAB VENT S HANDICAPPED LAVATORIES (HL-#) AP INSULATION, HOT AND COLD W/	EVATIONS FOR FIXTURE MOUNTING HALL BE 2". SHALL BE INSTALLED WITH P-TRAF ATER ANGLE VALVE AND SUPPLY IN	G HEIGHTS OR MOUNT AT MANUF P AND SUPPLY INSULATION. PRO ISULATION FABRICATED FROM C	FACTURERS RECOMMENDED HEI DVIDE TRUEBRO MODEL #102 OR FLOSED CELL VINYL, 3/16" WALL T	GHTS. EQUAL WITH HICKNESS.								
ALUE OF 1.17 (BTU*IN/HR*FT^2*DEG	F). MMENDATIONS.											
OVIDE WITH TWO Z886 TRENCH DRA	IN INLET ADAPTORS AND A 4" NO-H	IUB END OUTLET.										OFFICE OF
AIN INTO CATCH BASIN AND CAP OF	PPOSITE END.											DIVISION OF FA
BA	CKFLOW PREVENTER	SCHEDULE										MANAGEMENT, AND CONSTRUC
		PE,	OPERATING CONDITI							BACKFLOW MFF	. OR	DEPARTMENT O
BF	P-1 DOMESTIC CC	OLD WATER	<u></u>	175 PSIG	3/4"BRONZE		NRS	STANDARD / ASSE STD 1013, AWV	APPROVAL /A C511, UL AND FM	IYPEEQUIV RPZWA	ALENT MODEL REMARKS	PUBLIC SAFETY
REMA 1. RE	RKS: FER TO SPECIFICATION SECTION 2	22 11 19 FOR ADDITIONAL REQUIF	REMENTS.									MISSOURI ARMY
		FAN SCH	HEDULE									NATIONAL GUA
								ELECTRICAL DATA	MA	NUFACTURER		CONCEPTION
		MARK: EF-1	TYPE: DIRECT DRIVE INLINE FAN	<u>CFM:</u> 2,050	S.P. IN. WG.: DRIV 0.25 DIRE	VE: RPM: SO ECT 822 6	NES: HP: 6.4 3/4	V: PH: 115 1	HZ: AND 60 GREENHE	MODEL NUMBER: CK MODEL SQ-160-VG	REMARKS: 1,2,3	MAINTENANCE E
		REMARKS: 1. PROVIDE DISC 2. PROVIDE WITH 3. INTERLOCK OF 4. PROVIDE WITH 5. MOUNT AT 14'	CONNECT SWITCH. H GRAVITY BACKDRAFT DAMPER PERATION WITH OUTSIDE AIR LO H VARIGREEN MOTOR. 0".	UVERS.								ALBANY READIN CENTER 411 College St Albany MO 64402
		LOUVER	SCHEDULE									
					MINIMUM							PROJECT #: T2327
		MARK: L-1 L-2 L-3	OPERATING CONDITIONS: AMBIENT AMBIENT AMBIENT AMBIENT	TOTAL AIRFI SIZE: (CF 31"X16" 1,0 31"X16" 1,0 34"X25" 2,0	OW FREE AREA M): (SQFT): 25 1.25 25 1.25 50 2.63	VELOCITY (FPM): (II 823 823 778	APD CON: N. W.G.): M/ 0.08 GALVA 0.08 GALVA 0.09 GALVA	STRUCTION SCREE ATERIAL: TYPE NIZED STEEL BIRE NIZED STEEL BIRE NIZED STEEL BIRE	EN	MFR. OR EQUIVALENT: RUSKIN RUSKIN RUSKIN	MODEL: REMARKS: L375D 1 L375D 1 L375D 1 L375D 1	SITE #: 6251 ASSET #: 81362510
		REMARKS:	· · · ·	· · · · · · · · · · · · · · · · · · ·								REVISION: DATE:
		1. TWO COAT -	70% PVDF FINISH. COLOR BY AF	CHITECT								REVISION: DATE:
				GAS IN	FRARED HE	ATER SCHED	DULE					DATE:
						HIGH	LOW					ISSUE DATE: 11/15/20
				MARK:	OPERATING CONDITIONS:	INPUT (MBH):	INPUT (MBH):	FUEL:		MODEL:	REMARKS:	DRAWN BY: AR CHECKED BY: AR
				IRH-1	7-11 IN WC	65	50			HL3-20-65	1, 2, 3, 4, 5, 6	DESIGNED BY: <u>AR</u>
				IRH-3	7-11 IN WC	65	50	NATURAL GAS	RE-VERBER-RAY	HL3-20-65	1, 2, 3, 4, 5, 6	SHEET TITLE: Mechanical Sche
				REMARKS:								
				1. MOUNT AT	14'-0".							
				2. MINIMUM C 3. REFLECTO	CLEARANCE 6'-4" TO COM R DIRECTED DOWN.	IBUSTIBLES BELOW REFL	LECTOR.					SHEET NUMBER:
				4. PROVIDE F 5. INTERLOCI	CONTROL WITH 2 STAG	NTAKE KITS. GE WALL THERMOSTAT. AND MOUNTED AT AT 45 P		PACE				
				U. STAINLESS			LO ANOLL TOWARD S	<i></i>				IVI-ZUJ

										STATE OF MISSOURI MICHAEL L. PARSON GOVERNOR
FRAM 5" x 16-GA GALVA 5" x 16-GA GALVA	IE CONSTRUCTION: ANIZED HAT-SHAPED CHANNEL ANIZED HAT-SHAPED CHANNEL	BLADE 16 GAUGE GALV/ 16 GAUGE GALV/	CONSTRUCTION ANIZED STEEL INSULATED ANIZED STEEL INSULATED	LEAKAGE 2 CFM / S.F. @ 1" W 2 CFM / S.F. @ 1" W	BLAE SEAL VG PDNEOPR VG PDNEOPR	DE _S:EDGE: RENESS RENE SS	BEARINGS: ACTUATOR: SYNTHETIC 1 SYNTHETIC 1	MANUF. OR EQUIVALENT: MOD RUSKIN CD- RUSKIN CD-	EL:REMARKS: 601 601	AUSTIN NUMBER
										PE-2023035248 FE E
RE AND EQUII	PMENT CONNECTION S	CHEDULE MODEL				WA	ASTE VENT	HW	W TW	11/15/24
T HYDR	ANT: WOODFORD MODEL (FROST PROOF HYDR CHROME FINISH 3/4" OPERATING HANDLE,	7 FROST PROOF AUTOMATIC DRAIN ANT WITH ASSE 1052 APPROVED TWO HOSE CONNECTION STAINLESS STEE SEE NOTE 3	ING, O CHECK BACK FLOW PREVENTER, EL STEM, LOOSE KEY						/4"	PROFESSIONAL SEAL
I DRAIN	N: ZURN 886 HIGH DENS REVEAL WITH 4" THR MODEL Z886-HD-E1-D REMARKS: SEE NOT	ITY POLYETHYLENE (HDPE) TRENCH DAT, 883 INCHES LONG. PROVIDE CI GE SEE NOTE ES 3 AND 5	DRAIN CHANNEL. 6-1/4" WIDE LASS "E" DUCTILE IRON SLOTTED G	RATES.						ENERSE
BASIN	N: ZURN Z887-12. 12"x24 MODEL Z887-12-HDG- REMARKS: SEE NOT	x24" HDPE CATCH BASIN WITH CLAS E4-DGE-IA-IA. ES 3 AND 4	S "E" DUCTILE IRON SLOTTED GRAT	ES.			4"			2020 Baltimore Ave. Suite 300 Kansas City, MO 64108
JULATING VALV	E: ZURN 3-500XL SET TO CONTRACTOR TO DE	80 PSI FERMINE SET PRESSURE DURING BA	ALANCING						/4"	p. 010-474-0237
2°DEG F). RECOMMENDATIONS. H DRAIN INLET ADAPTORS AP OPPOSITE END. BACKFLOW PRI MARK BFP-1 REMARKS: 1. REFER TO SPECIFICAT	EVENTER SCHEDULE SERVES DOMESTIC COLD WATER FAN SC MARK: EF-1 REMARKS: 1 PROVIDE D 2 PROVIDE W 3 INTERLOCK 4 PROVIDE W 5 MOUNT AT	OPERATING CONDITIO PEAK FLOW GPM WPD 3 13.5 PSID UIREMENTS. CHEDULE CHEDULE DIRECT DRIVE INLINE FAN SCONNECT SWITCH. ITH GRAVITY BACKDRAFT DAMPER. OPERATION WITH OUTSIDE AIR LOU ITH VARIGREEN MOTOR. 14' 0".	NS	BODY INLET VALV BRONZE NRS	VE OUTLET VALVE_ NRS SONES: HP: 6.4 3/4	ELECTRICAL DATA V: PH: 115 1	D APPROVAL WWA C511, UL AND FM MAN HZ: AND M 60 GREENHEC	BACKFLOW MFR. OR TYPE EQUIVALENT RPZ WATTS UFACTURER DDEL NUMBER: (MODEL SQ-160-VG	MODEL REMARKS LF009 1 REMARKS: 1,2,3	OFFICE OF ADMINISTRATION DIVISION OF FACILIY MANAGEMENT, DESI AND CONSTRUCTIONDEPARTMENT OF PUBLIC SAFETYMISSOURI ARMY NATIONAL GUARDCONSTRUCT NEW MAINTENANCE BUILLIALBANY READINESS CENTER411 College St Albany MO, 64402
	MARK: L-1 L-2	OPERATING CONDITIONS: AMBIENT AMBIENT	TOTAL AIRFLOW SIZE: (CFM): 31"X16" 1,025 31"X16" 1,025 34"X25" 2,050	MINIMUM FREE AREA VELOCITY (SQFT): (FPM): 1.25 823 1.25 823 2.63 778	APD CO (IN. W.G.): 0.08 GALV 0.08 GALV	DNSTRUCTION SCR MATERIAL: TYI VANIZED STEEL BIF VANIZED STEEL BIF	EEN PE: FINISH: RD SEE NOTE 1 RD SEE NOTE 1	MFR. OR EQUIVALENT: MODE RUSKIN L3750 RUSKIN L3750	L: REMARKS: 0 1 0 1 0 1	PROJECT #: T232701 SITE #: 6251 ASSET #: 8136251003
			<u>34 AZƏ 2,050</u>	2.03(18	<u> </u>	VANIZED STEEL BIF	ער <u>SEE NUIE 1</u>	<u>ruskin 1375</u>	<u>, 1</u>	REVISION:
	1. TWO COA	T - 70% PVDF FINISH. COLOR BY ARC	CHITECT							REVISION:
										REVISION: DATE:
										ISSUE DATE: 11/15/2024
			MARK:	OPERATING INPUT CONDITIONS: (MBH):	INPUT :(MBH):	FUEL:	MANUFACTURER	MODEL:	REMARKS:	DRAWN BY: <u>AR</u> CHECKED BY: AR
			IRH-1	7-11 IN WC 65	50	NATURAL GAS	RE-VERBER-RAY	HL3-20-65	1, 2, 3, 4, 5, 6	DESIGNED BY: AR
			IRH-2	7-11 IN WC 65	50	NATURAL GAS	RE-VERBER-RAY	HL3-20-65	1, 2, 3, 4, 5, 6	SHEET TITLE:
			IRH-3	7-11 IN WC 65	50	NATURAL GAS	KE-VERBER-RAY	HL3-20-65	1, 2, 3, 4, 5, 6	Mechanical Schedule
			REMARKS:							
			1. MOUNT AT 14'-0". 2. MINIMUM CLEARANC	E 6'-4" TO COMBUSTIBLES BELOW	/ REFLECTOR.					
			4. PROVIDE ROOF VEN 5. INTERLOCK CONTRO	T AND ROOF INTAKE KITS. DL WITH 2 STAGE WALL THERMOST	TAT.					SHEET NUMBER:
			6. STAINLESS STEEL CO	DNTRUCTION AND MOUNTED AT AT	T 45 DEG ANGLE TOWARE	D SPACE.				M-201

													STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR
	BL/ 16 GAUGE G 16 GAUGE G	ADE CONSTRUG ALVANIZED STI ALVANIZED STI	CTION EEL INSULATED EEL INSULATED	LEA 2 CFM / S.F 2 CFM / S.F	KAGE . @ 1" WG PD . @ 1" WG PD	BLADE SEALS: NEOPREI NEOPREI	:EDG NESS NESS	GE:BEARIN GSYNTH GSYNTH	NGS: ACTUATOR: ETIC 1 ETIC 1	MANUF. OR EQUIVALENT: RUSKIN RUSKIN	MODEL: _CD-60 CD-60	REMARKS: 1 1	AUSTIN * RUEL NUMBER PE-2023035248
TION SC	HEDULE												II/ 15 (24
ACTURER AND M ORD MODEL 67 PROOF HYDRAN IE FINISH 3/4" HC TING HANDLE, SI	10DEL FROST PROOF AUTOMATIC DR IT WITH ASSE 1052 APPROVED DSE CONNECTION STAINLESS S EE NOTE 3	AINING, TWO CHECK B STEEL STEM, LO	ACK FLOW PREVENTER, DOSE KEY					WASTE	VENT	<u> </u>	<u>CW</u> 3/4"	TW	
86 HIGH DENSIT WITH 4" THROA Z886-HD-E1-DGE	Y POLYETHYLENE (HDPE) TREM T, 883 INCHES LONG. PROVID E SEE NOTE	NCH DRAIN CH/ IE CLASS "E" DI	ANNEL. 6-1/4" WIDE JCTILE IRON SLOTTED GRATI	ES.									FNFRSF
887-12. 12"x24"x2 Z887-12-HDG-E4 KS: SEE NOTES	24" HDPE CATCH BASIN WITH C -DGE-IA-IA. 3 AND 4	LASS "E" DUCT	ILE IRON SLOTTED GRATES.					4"					2020 Baltimore Ave. Suite 300 Kansas City, MO 64108
-500XL SET TO 8 ACTOR TO DETE	0 PSI RMINE SET PRESSURE DURING	G BALANCING									3/4"		p. 816-474-8237
OUNT AT MANU	FACTURERS RECOMMENDED F	HEIGHTS. DR EQUAL WITH											
RICATED FROM C	CLOSED CELL VINYL, 3/16" WAL	L THICKNESS.											OFFICE OF ADMINISTRATION DIVISION OF FACILIT MANAGEMENT, DESIG
- E		ITIONS											AND CONSTRUCTION
	_GPMWPD 313.5 PSID	PRESS 175 F	SSURE SIZE SIZE SIG 3/4"	BODY INL BRONZE	ET VALVEO _NRS	UTLET VALVE NRS	ASSE STI	STANDARD APPR D 1013, AWWA C5 ⁻	OVAL	TYPEEQUIVALEI RPZWATTS	NTMODE	ELREMARKS_ 91	DEPARTMENT OF PUBLIC SAFETY
FAN SCI	REMENTS. HEDULE												MISSOURI ARMY NATIONAL GUARD
MARK: EF-1	TYPE: DIRECT DRIVE INLINE FAN		CFM: S.P. IN. WG.: 2,050 0.25	DRIVE: RF DIRECT 82	M: <u>SONES</u> : 22 6.4	HP: 3/4	ELECTRICA V: 115	L DATA PH: HZ: 1 60	AND MOI	FACTURER DEL NUMBER: MODEL SQ-160-VG	REMA 1,2	ARKS: 2,3	CONSTRUCT NEW MAINTENANCE BUILD
REMARKS: 1. PROVIDE DISC 2. PROVIDE WITI 3. INTERLOCK O 4. PROVIDE WITI 5. MOUNT AT 14'	CONNECT SWITCH. H GRAVITY BACKDRAFT DAMPI PERATION WITH OUTSIDE AIR H VARIGREEN MOTOR. '0".	ER. LOUVERS.											ALBANY READINESS CENTER 411 College St
LOUVER	SCHEDULE												Albany MO, 64402
MARK:	OPERATING CONDITIONS: AMBIENT	TOTAL SIZE: 31"X16"	AIRFLOW FR (CFM): (1.025	INIMUM EE AREA VELOO SQFT): (FPN 1.25 823	CITY APE 1): (IN. W. 3 0.08) CON: G.): M/ 3 GALVA	STRUCTION ATERIAL: NIZED STEEL	SCREEN TYPE: BIRD	FINISH: SEE NOTE 1	MFR. OR EQUIVALENT: M RUSKIN L	ODEL:		PROJECT #: T232701 SITE #: 6251
L-2 L-3	AMBIENT AMBIENT	31"X16" 34"X25"	1,025 2,050	1.25 823 2.63 778	3 0.08 3 0.09	3 GALVA 9 GALVA	NIZED STEEL	BIRD BIRD	SEE NOTE 1 SEE NOTE 1	RUSKIN L RUSKIN L	.375D .375D	1 1	ASSET #: 8136251003
REMARKS: 1. TWO COAT ·	- 70% PVDF FINISH. COLOR BY	ARCHITECT											REVISION: DATE: REVISION: DATE: PEVISION:
			GAS INFRARE	DHEATER	SCHEDUI	_E							DATE:
			MARK: CON IRH-1 7-1	ERATING DITIONS: 1 IN WC	HIGH INPUT (MBH): 65	LOW INPUT (MBH): 50	FUE	:L:	MANUFACTURER RE-VERBER-RAY	MODEL: HL3-20-65	R 1,	2, 3, 4, 5, 6	DRAWN BY: <u>AR</u> CHECKED BY: <u>AR</u> DESIGNED BY: AR
			IRH-2 7-1 IRH-3 7-1	1 IN WC	65	50	NATURA	NL GAS	RE-VERBER-RAY RE-VERBER-RAY	HL3-20-65 HL3-20-65	1,	2, 3, 4, 5, 6 2, 3, 4, 5, 6	SHEET TITLE: Machanical Schedules
			REMARKS:										witchamear Schedules
			1. MOUNT AT 14'-0". 2. MINIMUM CLEARANCE 6'-	4" TO COMBUSTIBLES	BELOW REFLECT	OR.							
			 REFLECTOR DIRECTED E PROVIDE ROOF VENT AN INTERLOCK CONTROL W 	OWN. D ROOF INTAKE KITS. TH 2 STAGE WALL THI	ERMOSTAT								SHEET NUMBER:
			6. STAINLESS STEEL CONTR	RUCTION AND MOUNTE	D AT AT 45 DEG A	ANGLE TOWARD S	SPACE.						M-201

													STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR
	B 16 GAUGE 16 GAUGE	LADE CONSTR GALVANIZED S GALVANIZED S	UCTION TEEL INSULATED TEEL INSULATED		LEAKAGE 2 CFM / S.F. @ 1" WG PI 2 CFM / S.F. @ 1" WG PI	BLADE SEALS DNEOPRE DNEOPRE	EEDGE: :NESS :NESS	BEARINGS: SYNTHETIC SYNTHETIC	ACTUATOR:111	MANUF. OR EQUIVALENT: RUSKIN RUSKIN	MODEL: CD-60 CD-60	REMARKS:1111	AUSTIN RUEL NUMBER PE-2023035248
								WASTE			014		11/15/24
ORD MODEL 67 F PROOF HYDRAN E FINISH 3/4" HO TING HANDLE, SE	FROST PROOF AUTOMATIC D T WITH ASSE 1052 APPROVE SE CONNECTION STAINLESS EE NOTE 3	DRAINING, D TWO CHECK S STEEL STEM,	BACK FLOW PREVE LOOSE KEY	ENTER,				WASTE	VENT	<u>_</u>	<u> </u>	TW	PROFESSIONAL SEAL
36 HIGH DENSITY WITH 4" THROA Z886-HD-E1-DGE (S: SEE NOTES	Y POLYETHYLENE (HDPE) TRI T, 883 INCHES LONG. PROVI SEE NOTE 3 AND 5	ENCH DRAIN C IDE CLASS "E"	HANNEL. 6-1/4" WID DUCTILE IRON SLOT	E ITED GRATES.									ENERSE
387-12. 12"x24"x2 Z887-12-HDG-E4- (S: SEE NOTES	4" HDPE CATCH BASIN WITH DGE-IA-IA. 3 AND 4	CLASS "E" DUC	CTILE IRON SLOTTEI	D GRATES.				4"					2020 Baltimore Ave. Suite 300 Kansas City, MO 64108
500XL SET TO 80 ACTOR TO DETE) PSI RMINE SET PRESSURE DURII	NG BALANCING	2								3/4"		p. 816-474-8237
UNT AT MANUF	ACTURERS RECOMMENDED) HEIGHTS.											
SULATION. PRO	OVIDE TRUEBRO MODEL #102 CLOSED CELL VINYL, 3/16" WA	2 OR EQUAL WI ALL THICKNESS	TH S.										
													OFFICE OF ADMINISTRATION DIVISION OF FACILIT MANAGEMENT, DESIG
PE	OPERATING CON	DITIONS								BACKFLOW MFR	. OR		AND CONSTRUCTION
	GPM WPD 3 13.5 PSID	PRES 175	SSSURE SIZ 5 PSIG 3/4	EBODY "BRONZE	INLET VALVE	OUTLET VALVE NRS	STASTAASSE STD 10	NDARD APPROVAL)13, AWWA C511, UL	AND FM	TYPE EQUIV. RPZ WA	ALENTMC TTSLF	DDELREMARKS_ 0091	DEPARTMENT OF PUBLIC SAFETY
ITIONAL REQUI	REMENTS.												MISSOURI ARMY NATIONAL GUARD
FAN SCH	HEDULE												
MARK: EF-1	TYPE: DIRECT DRIVE INLINE FAN		<u>CFM:</u> <u>S.F</u> 2,050	P. IN. WG.: DRIV 0.25 DIRE	E: <u>RPM: SC</u> CT 822	<u>NES: HP:</u> 6.4 3/4	ELECTRICAL D/ V: Pł 115 1	ATA HZ: HZ: 1 60	MANUF AND MOD GREENHECK N	FACTURER D <u>EL NUMBER:</u> MODEL SQ-160-VG	RE	EMARKS: 1,2,3	CONSTRUCT NEW MAINTENANCE BUILD
Remarks: 1. Provide Disc 2. Provide With 3. Interlock OI 4. Provide With 5. Mount at 14'	CONNECT SWITCH. I GRAVITY BACKDRAFT DAMI PERATION WITH OUTSIDE AIF I VARIGREEN MOTOR. 0"	PER. R LOUVERS.											ALBANY READINESS CENTER 411 College St
LOUVER	SCHEDULE												Albany MO, 64402
	OPERATING	ТОТА	AIREL O	MINIMUM W FREE AREA	VELOCITY	APD CON	ISTRUCTION	SCREEN		MER OR			PROJECT #: T232701
MARK: <u>L-1</u> <u>L-2</u> <u>L-3</u>	CONDITIONS: AMBIENT AMBIENT AMBIENT	SIZE: 31"X16 31"X16 31"X25	(CFM): 1,025 1,025 1,025 2,050	(SQFT): 1.25 1.25 2.63	(FPM): (I 823 823 778	N. W.G.): M 0.08 GALV/ 0.08 GALV/ 0.09 GALV/	ANIZED STEEL	TYPE: BIRD BIRD BIRD BIRD	FINISH: SEE NOTE 1 SEE NOTE 1 SEE NOTE 1	EQUIVALENT: RUSKIN RUSKIN RUSKIN	MODEL: L375D L375D L375D	REMARKS: 1 1 1 1	SITE #: 6251 ASSET #: 8136251003
REMARKS: 1. TWO COAT -	70% PVDF FINISH. COLOR B	Y ARCHITECT											REVISION: DATE: REVISION: DATE:
			GAS INF	RARED HEA		OULE							REVISION: DATE:
				OPERATING	HIGH	LOW INPUT							DRAWN BY: AR
			MARK: IRH-1	CONDITIONS: 7-11 IN WC	(MBH): 65	<u>(MBH):</u> 50	FUEL: NATURAL G	AS R	ANUFACTURER E-VERBER-RAY	MODEL: HL3-20-65		REMARKS: 1, 2, 3, 4, 5, 6	CHECKED BY: <u>AR</u> DESIGNED BY: <u>AR</u>
			IRH-2 IRH-3	7-11 IN WC 7-11 IN WC	65	50	NATURAL G	AS R AS R	E-VERBER-RAY E-VERBER-RAY	HL3-20-65 HL3-20-65		1, 2, 3, 4, 5, 6 1, 2, 3, 4, 5, 6	SHEET TITLE: Mechanical Schedules
			REMARKS:								I		
			1. MOUNT AT 14 2. MINIMUM CLE	'-0". EARANCE 6'-4" TO COME	BUSTIBLES BELOW REF	LECTOR.							
			 REFLECTOR I PROVIDE ROO INTERLOCK C 	DIRECTED DOWN. OF VENT AND ROOF IN CONTROL WITH 2 STAG	AKE KITS. E WALL THERMOSTAT.								SHEET NUMBER:
			6. STAINLESS ST	FEEL CONTRUCTION AN	D MOUNTED AT AT 45 I	DEG ANGLE TOWARD	SPACE.						M-201

									STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR
CTION EEL INSULATED EEL INSULATED		LEAKAGE 2 CFM / S.F. @ 1" WG 2 CFM / S.F. @ 1" WG	BLADE SEALS: PDNEOPRENE PDNEOPRENE	EDGE: SS SS	BEARINGS:ACTU SYNTHETIC SYNTHETIC	MANUF. O ATOR: EQUIVALEN 1 RUSKIN 1 RUSKIN	DR NT:MODEL: CD-60_ CD-60	REMARKS:111	AUSTIN NUMBER
				WA	STE	VENTH	IWCW	TW	PROFESSIONAL SEAL
OSE KEY	IEK,								
NNEL. 6-1/4" WIDE JCTILE IRON SLOTTE	ED GRATES.								
ILE IRON SLOTTED G	GRATES.				ţn				2020 Baltimore Ave. Suite 300 Kansas City, MO 64108 p. 816-474-8237
1									OFFICE OF ADMINISTRATION DIVISION OF FACILITI MANAGEMENT, DESIG AND CONSTRUCTION
SURE SIZE	BODY	INLET VALVE	OUTLET VALVE	STANDARD) APPROVAL	BACKFLOW	MFR. OR EQUIVALENT	MODEL REMARKS	DEPARTMENT OF
PSIG3/4"	BRONZE	NRS	NRS	ASSE STD 1013, AW	WA C511, UL AND FM	RPZ	WATTS	LF0091	PUBLIC SAFETY
									MISSOURI ARMY NATIONAL GUARD
CFM: S.P. I 2,050 0	IN. WG.: DRIV D.25 DIRE	/E: RPM: 5 CT 822	SONES: HP: 6.4 3/4	ELECTRICAL DATA V: PH: 115 1	HZ: 60 GREE	MANUFACTURER AND MODEL NUMBER: NHECK MODEL SQ-160-V	G		CONSTRUCT NEW MAINTENANCE BUILDI
									ALBANY READINESS CENTER
									411 College St Albany MO, 64402
	MINIMUM								PROJECT #: T232701
AIRFLOW (CFM): 1,025 1,025 2,050	FREE AREA (SQFT): 1.25 1.25 2.63	VELOCITY (FPM): 823 823 778	APD CONST (IN. W.G.): MAT 0.08 GALVAN 0.08 GALVAN 0.09 GALVAN	RUCTION SCRE 'ERIAL: TYP IZED STEEL BIR IZED STEEL BIR IZED STEEL BIR	EEN FINISH: D SEE NOTE D SEE NOTE D SEE NOTE	MFR. OR EQUIVALEN 1 RUSKIN 1 RUSKIN 1 RUSKIN	T: MODEL: L375D L375D L375D L375D	<u>REMARKS:</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u>	SITE #: 6251 ASSET #: 8136251003
									REVISION: DATE: REVISION: DATE: REVISION:
GAS INFR	RARED HE	ATER SCHE	DULE						DATE: ISSUE DATE: 11/15/2024
MARK:	OPERATING CONDITIONS:	HIGH INPUT (MBH):	LOW INPUT (MBH):	FUEL:	MANUFACTUF	ERN	MODEL:	REMARKS:	DRAWN BY: <u>AR</u> CHECKED BY: <u>AR</u>
IRH-1 IRH-2	7-11 IN WC	65	50	NATURAL GAS	RE-VERBER-F	AY H	L3-20-65 L3-20-65	1, 2, 3, 4, 5, 6	DESIGNED BY: <u>AR</u>
IRH-3	7-11 IN WC	65	50	NATURAL GAS	RE-VERBER-F	AY H	L3-20-65	1, 2, 3, 4, 5, 6	SHEET TITLE: Mechanical Schedules
REMARKS:							I		
 MOUNT AT 14'-0" MINIMUM CLEAR REFLECTOR DIR PROVIDE ROOF 	". RANCE 6'-4" TO COM RECTED DOWN. VENT AND ROOF IN	BUSTIBLES BELOW RE TAKE KITS.	FLECTOR.						SHEET NUMBER:
5. INTERLOCK CON 6. STAINLESS STEE	NTROL WITH 2 STAG	E WALL THERMOSTAT	5 DEG ANGLE TOWARD SP	ACE.					M-201

11/15/2024

	EL	E(CTRICAL ABE	BREVIATIONS AI	ND SYMBOLS LE	ΞĊ	GEND
	ABBREVIATIONS		LIGHTING	ELECTRICAL DISTRIBUTION	ELECTRICAL DISTRIBUTION EQUIPMENT	MC	OTOR CONTROL & MOTO CONTROL EQUIPMENT
AFF AFG C CATV DAS	ABOVE FINISHED FLOOR ABOVE FINISH GRADE SUBSCRIPT 'C' ADJACENT TO ANY DEVICE INDICATES CEILING. CABLE TELEVISION DISTRIBUTED ANTENNA SYSTEM	O ₍₋) (-)	POLE MOUNTED EXTERIOR LIGHT FIXTURE. LETTER/NUMBER INDICATES FIXTURE AND POLE TYPE. LINEAR RECESSED FIXTURE. LETTER/NUMBER DENOTES FIXTURE TYPE. LINEAR RECESSED FIXTURE WITH EMERGENCY BATTERY	S LINE VOLTAGE SINGLE POLE SWITCH S2 LINE VOLTAGE TWO POLE SWITCH S3 LINE VOLTAGE THREE WAY SWITCH	LIGHTING AND APPLIANCE PANEL (LIGHTING) RELAY PANEL MOTOR CONTROL CENTER OR SWITCHBOARD		MOTOR - HORSEPOWER AS INDICATED ON DRAWINGS NON-FUSED DISCONNECT SWITCH, ASSUME 30A/3P UNLESS OTHERWISE NOTED. FUSED DISCONNECT SWITCH, ASSUME 30A/3P UNLESS OTHERWINGS
(E) EO EPO	SUBSCRIPT 'E' ADJACENT TO ANY DEVICE INDICATES EXISTING. ELECTRICALLY OPERATED EMERGENCY POWER OFF		BACKUP AND/OR ON EMERGENCY CIRCUIT. LETTER/NUMBER DENOTES FIXTURE TYPE. 2'X 4' RECESSED FIXTURE. LETTER/NUMBER DENOTES FIXTURE TYPE	S ₄ LINE VOLTAGE FOUR WAY SWITCH S _D LINE VOLTAGE DIMMER SWITCH S _{TE} LINE VOLTAGE THERMAL ELEMENT SWITCH	POWER PANEL (DISTRIBUTION) T T CIRCUIT BREAKER	R	COMBINATION FVNR MAGNETIC MOTOR STARTER WITH HOA SELE SWITCH AND NON-FUSED DISCONNECT SWITCH, ASSUME NEMA S STARTER AND 30A/3P SWITCH UNLESS OTHERWISE NOTED.
(ER) EWC F	SUBSCRIPT 'ER' ADJACENT TO ANY DEVICE INDICATES EXISTING TO BE RELOCATED. ELECTRIC WATER COOLER SUBSCRIPT 'F' ADJACENT TO ANY DEVICE INDICATES FLOOR.	(-) (-)	2'X 4' RECESSED FIXTURE WITH EMERGENCY BATTERY BACKUP AND/OR ON EMERGENCY CIRCUIT. LETTER/NUMBER DENOTES FIXTURE TYPE. 1'X 4' RECESSED FIXTURE. LETTER/NUMBER DENOTES FIXTURE	SO LINE VOLTAGE OCCUPANCY SENSING SWITCH ST LINE VOLTAGE DIGITAL TIMER SWITCH	FUSIBLE SWITCH		SWITCH AND FUSED DISCONNECT SWITCH, ASSUME NEMA SIZE 1 STARTER AND 30A/3P SWITCH UNLESS OTHERWISE NOTED. FUSE NOTED ON DRAWINGS.
GFI H HM HOA	GROUND FAULT INTERRUPTER SUBSCRIPT 'H' DENOTES HOSPITAL GRADE HORIZONTALLY MOUNTED DEVICE HAND-OFF-AUTO	(-)	TYPE. 1' X 4' RECESSED FIXTURE WITH EMERGENCY BATTERY BACKUP AND/OR ON EMERGENCY CIRCUIT. LETTER/NUMBER DENOTES FIXTURE TYPE.	S _{3T} LINE VOLTAGE 3-WAY DIGITAL TIMER SWITCH	H□→ ← POTENTIAL TRANSFORMER -□→ CURRENT TRANSFORMER III→ GROUND	גא צא 	OTHERS, INSTALLED AND CONNECTED BY THE ELECTRICAL CONTRACTOR. FULLY COORDINATE ALL INSTALLATION AND CONNECTION DETAILS WITH THE MECHANICAL CONTRACTOR. FVNR MAGNETIC MOTOR STARTER WITH HOA SELECTOR SWITCH
LTG MECH	LIGHTING MECHANICAL	(-)	2' X 2' RECESSED FIXTURE. LETTER/NUMBER DENOTES FIXTURE TYPE.	SYSTEM SYMBOLS	ARC FLASH MAINTENANCE ENERGY REDUCTION SWITCH		ASSUME NEMA SIZE 1 STARTER UNLESS OTHERWISE NOTED. START/STOP PUSH BUTTON
NF NIC	NON-FUSED NOT IN CONTRACT	(-)	2' X 2' RECESSED FIXTURE WITH EMERGENCY BATTERY BACKUP AND/OR ON EMERGENCY CIRCUIT. LETTER/NUMBER DENOTES FIXTURE TYPE	 ♀ lt;	GROUND FAULT PROTECTION		3 POSITION PUSH BUTTON
NC OHE	NORMALLY CLOSED OVERHEAD ELECTRICAL		2'X 4' SURFACE OR PENDANT MOUNTED FIXTURE. LETTER/NUMBER DENOTES FIXTURE TYPE. REFER TO DRAWINGS FOR FIXTURE MOUNTING HEIGHT	R QOA, 125V SIMPLEX OUTLET (NEMA 5 - 20R) QOA, 125V RED DUPLEX CONVENIENCE OUTLET ON EMERGENCY	SPD SURGE PROTECTION DEVICE Comparison DRAWOUT TYPE CIRCUIT BREAKER		POSH BUTTON
OHT PVC RCPT	OVERHEAD TELECOMMUNICATIONS POLYVINYL CHLORIDE RECEPTACLE		2' X 4' SURFACE OR PENDANT MOUNTED FIXTURE WITH EMERGENCY BATTERY BACKUP AND/OR ON EMERGENCY CIRCUIT.	$ \begin{array}{c c} & & \\ & $			
(R)	SUBSCRIPT 'R' ADJACENT TO ANY DEVICE INDICATES THE RELOCATED POSITION OF AN EXISTING DEVICE.	(-)	LETTER/NUMBER DENOTES FIXTURE TYPE. REFER TO DRAWINGS FOR FIXTURE MOUNTING HEIGHT. SURFACE OR PENDANT MOUNTED FIXTURE. LETTER/NUMBER	OH SPECIAL PURPOSE OUTLET, TYPE AS NOTED ON DRAWINGS.	Image: Construction REA REMOTE GENERATOR ANNUNCIATOR		
RGS (S)	RIGID GALVANIZED STEEL SUBSCRIPT 'S' ADJACENT TO ANY DEVICE INDICATES THE DEVICE IS TO BE SURFACE MOUNTED		DENOTES FIXTURE TYPE. REFER TO DRAWINGS FOR FIXTURE MOUNTING HEIGHT.		METER PANELBOARD TAG. SEE THE CORRESPONDING PANELBOARD	-	
TR UGE	TAMPER RESISTANT UNDERGROUND ELECTRICAL	(-)	BATTERY BACKUP AND/OR ON EMERGENCY CIRCUIT. LETTER/NUMBER DENOTES FIXTURE TYPE. REFER TO DRAWINGS FOR FIXTURE MOUNTING HEIGHT.	Φ Φ Φ SURFACE MOUNTED RACEWAT: THE AND NOMBER OF DEVICES AS INDICATED, REFER TO SPECIFICATION AND DETAIL. Φ Φ Φ SURFACE MOUNTED RACEWAY (RED OUTLETS ON STANDBY SYSTEM). ΤΥΡΕ AND NUMBER OF DEVICES AS INDICATED, REFER TO	SCHEDULE AND/OR ONE LINE DIAGRAM FOR ADDITIONAL INFORMATION.	1	
HVE UGT	UNDERGROUND MEDIUM OR HIGH VOLTAGE ELECTRICAL UNDERGROUND TELECOMMUNICATIONS	(-)	2' X 2' SURFACE OR PENDANT MOUNTED FIXTURE. LETTER/NUMBER DENOTES FIXTURE TYPE. REFER TO DRAWINGS FOR FIXTURE MOUNTING HEIGHT.	SPECIFICATION AND DETAIL. S PIGTAIL DENOTES CONNECTION TO EQUIPMENT			
WAP WG WP	WIRELESS ACCESS POINT WIRE GUARD WEATHERPROOF	(-)	2' X 2' SURFACE OR PENDANT MOUNTED FIXTURE WITH EMERGENCY BATTERY BACKUP AND/OR ON EMERGENCY CIRCUIT. LETTER/NUMBER DENOTES FIXTURE TYPE. REFER TO DRAWINGS FOR FIXTURE MOUNTING HEIGHT.	UUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU			
× _////	CROSS-HATCHING AND/OR DASHED INDICATES REMOVAL	(-)	WALL MOUNTED FIXTURE. LETTER/NUMBER DENOTES FIXTURE TYPE. REFER TO DRAWINGS FOR FIXTURE MOUNTING HEIGHT.	TELECOMMUNICATIONS OUTLET BOX.			
		(-)	WALL MOUNTED FIXTURE WITH EMERGENCY BATTERY BACKUP AND/OR ON EMERGENCY CIRCUIT. LETTER/NUMBER DENOTES FIXTURE TYPE. REFER TO DRAWINGS FOR FIXTURE MOUNTING HEIGHT.	BRANCH CIRCUIT HOMERUN TO PANEL. NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS. NUMBER OF TICK MARKS INDICATES NUMBER OF WIRES (#12AWG, MINIMUM, UNLESS OTHERWISE NOTED). IF NO TICK MARKS ARE SHOWN, ASSUME 3-#12 AWG IN 3/4" CONDUIT.			
			STRIP FIXTURE. LETTER/NUMBER DENOTES FIXTURE TYPE. REFER TO DRAWINGS FOR FIXTURE MOUNTING HEIGHT. STRIP FIXTURE WITH EMERGENCY BATTERY BACKUP AND/OR ON EMERGENCY CIRCUIT. LETTER/NUMBER DENOTES FIXTURE	CONDUIT AND WIRE CONCEALED. NUMBER OF TICK MARKS INDICATES NUMBER OF WIRES (#12AWG MINIMUM, UNLESS OTHERWISE NOTED) IF NO TICK MARKS ARE SHOWN, ASSUME 3-#12 AWG IN 3/4" CONDUIT.			
		(-) (-)	TYPE. REFER TO DRAWINGS FOR FIXTURE MOUNTING HEIGHT. RECESSED, SURFACE OR PENDANT MOUNTED FIXTURE. LETTER/NUMBER DENOTES FIXTURE TYPE. REFER TO DRAWINGS FOR MOUNTING DETAILS AND MOUNTING HEIGHT	CONDUIT RISER OP CONDUIT RISER DOWN INDICATES BUSH AND CAP			
		(-)	RECESSED, SURFACE OR PENDANT MOUNTED FIXTURE WITH EMERGENCY BATTERY BACKUP AND/OR ON EMERGENCY CIRCUIT. LETTER/NUMBER DENOTES FIXTURE TYPE. REFER TO DRAWINGS FOR MOUNTING DETAILS AND HEIGHT.	CONDUIT SEAL FITTING FOR HAZARDOUS AREAS CONDUIT STUBBED UP 6" AFF AND CAPPED			
		HO ₍₋₎	WALL MOUNTED FIXTURE. LETTER/NUMBER DENOTES FIXTURE TYPE. REFER TO DRAWINGS FOR MOUNTING HEIGHT. BATTERY POWERED EMERGENCY LIGHT FIXTURE. REFER TO				
			URAWINGS FOR FIXTURE MOUNTING HEIGHT. WALL MOUNTED EXIT SIGN. PROVIDE DIRECTIONAL ARROWS AS SHOWN ON DRAWINGS. REFER TO DRAWINGS FOR MOUNTING HEIGHT. (DARKENED PORTION OF FIXTURE INDICATES ILLUMINATED FACES.)				
		Ø †	CEILING MOUNTED EXIT SIGN. PROVIDE DIRECTIONAL ARROWS AS SHOWN ON DRAWINGS. (DARKENED PORTION OF FIXTURE INDICATES ILLUMINATED FACES.)				
		L	1			I	

PROJECT GENERAL ELECTRICAL NOTES

GENERAL LIGHTING NOTES:

- 1. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL CEILING MOUNTED DEVICES.
- 2. COORDINATE THE INSTALLATION OF LIGHTING FIXTURES WITH ALL OTHER TRADES.
- 3. COORDINATE THE INSTALLATION OF ALL RECESSED LIGHTING FIXTURES WITH ACTUAL CEILING TYPES. REFER TO ARCHITECTURAL FINISH SCHEDULES FOR ADDITIONAL DETAILS.
- 4. SUPPORT ALL RECESSED AND PENDANT MOUNTED FIXTURES FROM STRUCTURE IN ACCORDANCE WITH APPLICABLE BUILDING CODE REQUIREMENTS. SUSPENDED CEILING MOUNTING SYSTEMS SHALL NOT BE USED TO SUPPORT FIXTURES OR RACEWAYS.
- 5. ROUTE ALL WIRE AND CONDUIT CONCEALED UNLESS OTHERWISE NOTED. PATCH ALL EXISTING SURFACES AFTER WIRE AND CONDUIT INSTALLATION, AS REQUIRED. REFER TO THE SPECIFICATION FOR CUTTING AND PATCHING REQUIREMENTS. ALL COSTS ASSOCIATED WITH ABOVE REQUIREMENTS MUST BE INCLUDED IN THE PROJECT BID.
- 6. UNLESS OTHERWISE NOTED, ELECTRICAL DEVICES ARE TO BE FLUSH MOUNTED AND ALL WIRE AND CONDUIT IS TO BE ROUTED CONCEALED. FULLY COORDINATE INSTALLATION WITH EXISTING CONDITIONS, AND INCLUDE PATCHING AND REFINISHING OF EXISTING SURFACES TO ACCOMMODATE THIS REQUIREMENT.
- 7. A DEDICATED NEUTRAL CONDUCTOR IS REQUIRED FOR ALL DIMMABLE CIRCUITS.
- 8. BOX AROUND RECESSED LIGHTING FIXTURES AS REQUIRED SO THAT ALL CODE REQUIRED CLEARANCES BETWEEN COMBUSTIBLE MATERIALS, THERMAL INSULATION, ETC AND LIGHTING FIXTURES ARE MAINTAINED. FULLY COORDINATE ALL REQUIREMENTS WITH THE GENERAL CONTRACTOR.
- 9. PROVIDE ENCLOSURES OVER RECESSED LIGHTING FIXTURES INSTALLED IN RATED CEILINGS SO ALL CODE REQUIRED RATINGS ARE MAINTAINED. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES AND RATINGS. FULLY COORDINATE ALL REQUIREMENTS WITH THE GENERAL CONTRACTOR.
- 10. SEAL AROUND ALL CONDUIT AND CABLE PENETRATIONS THROUGH WALLS, CEILINGS, AND FLOORS TO MAINTAIN CODE REQUIRED RATINGS. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
- 11. REFER TO THE LIGHTING FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION.

GENERAL POWER NOTES:

- 1. FULLY COORDINATE THE INSTALLATION OF ALL ELECTRICAL DEVICES WITH THE WORK OF OTHER TRADES.
- 2. UNLESS OTHERWISE NOTED, ELECTRICAL DEVICES ARE TO BE FLUSH MOUNTED AND ALL WIRE AND CONDUIT IS TO BE ROUTED CONCEALED. FULLY COORDINATE INSTALLATION WITH EXISTING CONDITIONS, AND INCLUDE PATCHING AND REFINISHING OF EXISTING SURFACES TO ACCOMMODATE THIS REQUIREMENT.
- 3. FULLY COORDINATE THE LOCATION OF ALL HVAC EQUIPMENT WITH THE MECHANICAL AND CONTROLS CONTRACTORS. PROVIDE ALL DEVICES (I.E. STARTERS, SWITCHES, CONTACTS, ETC.) REQUIRED TO ENSURE SATISFACTORY OPERATION OF ALL SYSTEMS AND EQUIPMENT. (CONTROL WIRING TO BE PROVIDED BY MECHANICAL CONTRACTOR.) COORDINATE DEVICE REQUIREMENTS WITH ACTUAL EQUIPMENT.
- 4. FOR ALL HVAC CONTROL DEVICES PROVIDED BY THE ELECTRICAL CONTRACTOR, PROVIDE ALL NECESSARY AUXILIARY COMPONENTS AND CONTACTS TO ENSURE PROPER SYSTEM CONTROL FUNCTIONS. FULLY COORDINATE ALL REQUIREMENTS WITH THE MECHANICAL AND CONTROLS CONTRACTORS.
- 5. SEAL AROUND ALL CONDUIT AND CABLE PENETRATIONS THROUGH WALLS, CEILINGS AND FLOORS TO MAINTAIN CODE REQUIRED RATINGS. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
- 6. UNLESS OTHERWISE INDICATED PROVIDE DEDICATED NEUTRAL CONDUCTORS FOR ALL BRANCH CIRCUITS. NEUTRAL CONDUCTORS SHALL NOT BE SHARED BETWEEN CIRCUITS. WHERE THE DRAWINGS INDICATE SHARED NEUTRAL CONDUCTORS FOR A MULTIWIRE BRANCH CIRCUIT, GROUP BREAKERS TOGETHER IN ACCORDANCE WITH CODE.

	STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR
NOTOR IENT IGS PUNLESS ESS OTHERWISE MITH HOA SELECTOR SSUME NEMA SIZE 1 NOTED.	BRENTON D. ADAMS NUMBER PE - 2018037489 ON AL FUSTO II-IS-24
WITH HOA SELECTOR E NEMA SIZE 1 E NOTED. FUSE SIZE AS	
PROVIDED BY ICTRICAL TION AND NTRACTOR. ICTOR SWITCH, SE NOTED.	CLARKG ENERSEN 2020 Baltimore Ave. Suite 300 Kansas City, MO 64108 p. 816-474-8237
	OFFICE OF ADMINISTRATION DIVISION OF FACILITIES, MANAGEMENT, DESIGN AND CONSTRUCTION
	DEPARTMENT OF PUBLIC SAFFTV
	MISSOURI ARMY NATIONAL GUARD
	MAINTENANCE BUILDING
	ALBANY READINESS CENTER
	411 College St. Albany MO, 64402
	PROJECT #: T232701
	SITE #: 6251 ASSET #: 8136251003
	REVISION: DATE: REVISION: DATE: REVISION: DATE:
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	CHECKED BY: BA DESIGNED BY: BRS
	SHEET TITLE: Electrical Abbreviations, Symbols Legend & General Notes
	SHEET NUMBER:
	E-000

BID DOCUMENTS

11/15/24

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	ELECTRICAL ONE LINE DIAGRAM NOTE
KEY NOTE	DESCRIPTION
$\left\langle 1 \right\rangle$	PROVIDE PANEL IN NEMA 3 ENCLOSURE.
2	GROUND SERVICE IN ACCORDANCE WITH THE NEC AND SPECIFIED REQUIRE ADDITIONAL INFORMATION.
3	ELECTRIC UTILITY COMPANY METER. FULLY COORDINATE ALL REQUIREMEN ALBANY) AND PROVIDE ALL NECESSARY EQUIPMENT, WIRE, CONDUIT, AND INSTALLATION.
$\langle 4 \rangle$	EQUIPMENT SHALL BE PROVIDED WITH MINIMUM NEMA 3R RATED ENLOSUR

MICHAEL L. PARSON, GOVERNOR BRENTON 1 ADAMS NUMBER PE - 201803748 11-15-24 PROFESSIONAL SEAL CLARK ENERSEN 2020 Baltimore Ave. Suite 300 Kansas City, MO 64108 p. 816-474-8237 **OFFICE OF** ADMINISTRATION **DIVISION OF FACILITIES,** MANAGEMENT, DESIGN AND CONSTRUCTION **DEPARTMENT OF PUBLIC SAFETY MISSOURI ARMY** NATIONAL GUARD MAINTENANCE BUILDING ALBANY READINESS CENTER 411 College St Albany MO, 64402 PROJECT #: T232701 SITE #: 6251 ASSET #: 8136251003 **REVISION:** DATE: **REVISION:** DATE: **REVISION:** DATE: ISSUE DATE: 11/15/2024 DRAWN BY: BRS CHECKED BY: BA DESIGNED BY: <u>BRS</u> SHEET TITLE: Electrical One-Line & Site Plan SHEET NUMBER: E-00 **BID DOCUMENTS**

11/15/24

STATE OF MISSOURI

nLIGHT LIGHTING CONTROL DEVICE SCHEDULE

S_N ON/OFF PUSHBUTTON , NLIGHT CATALOG NUMBER: NPODM

nLIGHT LIGHTING CONTROL **DEVICE SCHEDULE**

PENDANT MOUNT 360°, EXTENDED RANGE DUAL TECH. OCCUPANCY SENSOR, NLIGHT CATALOG NUMBER: NCM PDT 10

NP 120/277 VAC POWER PACK, NLIGHT CATALOG NUMBER: NPP16

	FIRST FLOOR LIGHTING PLAN NOTES
KEY NOTE	DESCRIPTION
$\langle 1 \rangle$	EXTERIOR LIGHT FIXTURE SHALL BE CONTROLLED VIA INTEGRAL PHOTOCELL AND INTEGRAL OCCUPANCY SENSOR. FIXTURE SHALL ILLUMINATE WHEN ADEQUATE DAYLIGHT IS NOT PRESENT. FIXTURE SHALL BE DIMMED TO FIFTY PERCENT LUMEN OUTPUT WITH A FIVE MINUTE DELAY WHEN NO ACTIVITY IS DETECTED BY INTEGRAL OCCUPANCY SENSOR. WHEN ACTIVITY IS DETECTED, LUMINAIRE SHALL RETURN TO FULL LUMEN OUTPUT.
2	CONNECT TO 'UNSWITCHED' HOT OF CIRCUIT INDICATED.
$\langle 3 \rangle$	CIRCUIT FIXTURE TO AN 'UNSWITCHED HOT' CONDUCTOR OF CIRCUIT INDICATED. FIXTURE SHALL BE CAPABLE OF BEING SWITCHED ALONG WITH ALL OTHER AREA LIGHTING. IN A POWER LOSS SITUATION, NOT A SWITCH EVENT, THE FIXTURE SHALL BE ILLUMINATED VIA INTEGRAL BATTERY.
$\langle 4 \rangle$	MOUNT FIXTURE SO THAT THE BOTTOM OF FIXTURE IS 13'-0" AFF.

<u>nLIGHT CONTROL DEVICE GENERAL NOTES:</u>

1. NLIGHT CONTROLS ARE THE BASIS OF DESIGN. ALTERNATE MANUFACTURERS MAY BE APPROVED PRIOR TO BID IF THEY MEET ALL SPECIFICATION REQUIREMENTS. SEE THE SPECIFICATION FOR ADDITIONAL INFORMATION .

2. WHERE NLIGHT POWER PACKS/RELAY ARE INDICATED IN AREAS WITH HARD CEILINGS, POWER PACKS/RELAYS SHALL BE LOCATED IN THE NEAREST ACCESSIBLE CEILING SPACE OR NEAR ACCESS PANELS.

3. ALL OCCUPANCY/VACANCY SENSORS SHALL BE LOCATED AT THE MANUFACTURER'S RECOMMENDED DISTANCE FROM ALL MECHANICAL AIR DISTRIBUTION DIFFUSERS/GRILLS. SENSORS ARE REQUIRED TO PROVIDE ADEQUATE COVERAGE WITHIN THAT SPACE PER THE MANUFACTURER'S RECOMMENDATIONS.

4. LOW VOLTAGE WALL SWITCHES SHALL BE GRAY IN COLOR.

5. IN SPACES WITHOUT CEILINGS, PENDANT MOUNT OCCUPANCY/VACANCY SENSORS. CONTRACTOR SHALL COORDINATE MOUNTING HEIGHT OF SENSORS WITH ARCHITECT AND ENGINEER PRIOR TO INSTALLATION. IN GENERAL, SENSORS SHOULD BE MOUNTED AT AN ELEVATION EVEN WITH THE BOTTOM OF OTHER ADJACENT SYSYEMS IN ORDER TO PROVIDE CLEAR LINE OF SIGHT FOR SENSOR COVERAGE.

6. CONTRACTOR TO PROVIDE AND INSTALL ALL LIGHTING CONTROL LOW VOLTAGE CABLING BETWEEN LIGHITNG CONTROL SYSTEM DEVICES. LOW VOLTAGE CABLING SHALL BE ROUTED IN 3/4" CONDUIT. CONTRACTORS SHALL OBTAIN ALL NECESSASRY WIRING DIAGRAMS FROM MANUFACTURER PRIOR TO INSTALLATION.

7. SENSOR DELAY SHALL NOT EXCEED 20 MINUTES.

TICK MARKS HAVE INTENTIONALLY NOT BEEN INCLUDED ON THE LIGHTING PLANS. THIS OMISSION IS TO MAINTAIN CLARITY AND READABILITY. ENSURING THAT THE FOCUS REMAINS ON THE ACCURATE PLACEMENT AND SPECIFICATION OF LIGHTING FIXTURES. CONTRACTOR IS RESPONSIBLE FOR PROVIDING PROPER NUMBER OF SWITCHED HOT CONDUCTORS, UNSWITCHED HOT CONDUCTORS, NEUTRAL CONDUCTORS, AND GROUND CONDUCTORS TO EACH DEVICE TO ENSURE PROPER FUNCTION. ALL FIXTURE TYPES, QUANTITIES, AND LOCATIONS ARE INDICATED WITHIN THE PLAN.

STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR

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DEPARTMENT OF PUBLIC SAFETY

MISSOURI ARMY NATIONAL GUARD

MAINTENANCE BUILDING

ALBANY READINESS CENTER

411 College St. Albany MO, 64402

PROJECT #: T232701

SITE #: 6251 ASSET #: 8136251003

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SHEET TITLE: First Floor Electrical Plans

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E-101 **BID DOCUMENTS** 11/15/24

WHERE DIMMING IS INDICATED, CONTRACTOR SHALL PROVIDE NECESSARY 0-10 VOLT DIMMING CONDUCTORS COLORED PER CODE.

			LIGHTING	FIXTURE SCHEDU	ILE					
F	ixture Type	Manufacturers	Catalog Numbers	Description	No. of Lamps	Lamp Type	Volt	VA	Mounting	Remarks
	A	HE WILLIAMS COLUMBIA LITHONIA	75-4-L50-8-40-(2)VBY-2/PWU-DIM-UNV MPS-4-40-ML-NLW-ED-U ZL1D-L48-5000LM-FST-MVOLT-40K-80-WH	4' LED INDUSTRIAL	NA	LED, 4000K	UNV	38	PENDANT	AQUIRE NECESSARY COMPONENTS FOR PENDANT MOUN SO THAT THE BOTTOM OF FIXTURE IS 11'-0" AFF UNLESS (TO LIGHTING PLAN FOR ADDITIONAL INFORMATION. PF INTEGRAL BATTERY BACKUP.
	В	MCGRAW-EDISON BEACON KIM	IST-SA1-A-740-U-T4W-AP-SPB2 TRP1-24L-25-4K7-4W-UV-DBT WDS-D-24L-30-4K7-4W-UNV-DBT	LED AREA LUMINAIRE AND WALL MOUNT	NA	LED, 4000K	UNV	30	WALL	MOUNT FIXTURE AT 13' AFF. PROVIDE FIXTURE WITH BUTT AND DIMMING MOTION SENSOR. FIXTURE SHALL ILLUM DAYLIGHT IS NOT PRESENT VIA SENSING FROM INTEGRA SHALL BE DIMMED TO FIFTY PERCENT LUMEN OUTPUT WI WHEN NO ACTIVITY IS DETECTED BY INTEGRAL MOTION S DETECTED, LUMINAIRE SHALL RETURN TO FULL LUMEN MOUNTING WITH ALL OTHER TRADES. PROVIDE WITH C BACKUP.
	\bigotimes	DUAL LITE MULE LIGHTING EXITRONIX	EVE-U-R-W-I MX-B-R-U-SD VEX-U-BP-WB-WH-G2	LED EXIT FIXTURE- THERMOPLASTI C	NA	PROVIDED WITH FIXTURE	UNV	5	UNIVERSAL	PROVIDE SINGLE OR DUAL FACED SIGNS, MOUNTING AND INDICATED ON PLANS. UNLESS OTHERWISE INDICATED ABOVE DOOR SO THAT BOTTOM OF EXIT SIGN IS 6" ABOV PROVIDE SELF DIAGNOSTICS AND INTEGRAL I

LIGHTING FIXTURE SCHEDULE GENERAL NOTES: 1. CONTRACTOR SHALL VERIFY MOUNTING HEIGHTS OF ALL FIXTURES PRIOR TO INSTALLATION.

с	Α	Р	LC
1	20	1	
3	20	1	
5	20	1	
7	20	1	
9	20	1	
11	20	1	
13	20	1	
15	20	1	F
17	20	1	
19	20	1	
21	20	1	
23	20	1	
25	20	1	
27		1	
29		1	
31		1	
33		1	
35		1	
37		1	
39		1	
41		1	

LOAD CLASSIFICATION
RECEPTACLE
LIGHTING
MECHANICAL
SPARE

PANELBOARD: 1L1

Location: CAGED ELEC 03 Supply From: Mounting: SURFACE Enclosure: NEMA 3

Volts: 120/240 Single Phases: 1 **Wires:** 3

A.I.C. Rating: 22,000 Mains Rating: 200 A MCB Rating: Main Circuit Breaker (MCB)

AD CLASS	S LOAD NAME			PHASE A LOAD (VA)		PHASE B LOAD (VA)		L	OAD NAME	LOAD CLASS	Ρ	A	с
RCPT	INTERIOR REC	CEPTACLES		800	1200			OVERHEAD DOOR		MECH	2	20	2
RCPT	INTERIOR REG	CEPTACLES				800	1200						4
RCPT	EXTERIOR RE	CEPTACLES		800	1200			OVERHEAD DOOR		MECH	2	20	6
RCPT	INTERIOR REG	CEPTACLES				600	1200						8
MECH	INFRARED HE	ATER		600	1200			OVERHEAD DOOR		MECH	2	20	10
MECH	INFRARED HE	ATER				600	1200						12
MECH	INFRARED HE	ATER		600	1200			OVERHEAD DOOR		MECH	2	20	14
ower; LTG	INTERIOR LIG	HTS				914	1200						16
LTG	EXTERIOR LIGHTS			80	1000			SPARE			1	20	18
MECH	EF-1					1660	1000	SPARE			1	20	20
	SPARE			1000	1000			SPARE			1	20	22
	SPARE					1000	1000	SPARE			1	20	24
	SPARE			1000	1000			SPARE			1	20	26
	Space							Space			1		28
	Space							Space			1		30
	Space							Space			1		32
	Space							Space			1		34
	Space							Space			1		36
	Space							Space			1		38
	Space							Space			1		40
	Space							Space			1		42
	Total Load:			12680 VA		12374 VA							
	Total Amps:			10	106 A		3 A						
								-					
	CTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	125% C ESTIMAT		OF ED							
30	00 VA	First 10kVA @ 100% Remainder @ 50%	3000 VA		3750 VA				PANEL TOTALS				
99	94 VA	100%	994 VA		1243 VA				PANEL ESTIMATED DEMAND (VA):	22053 VA			
130	060 VA	VA 100% 13060 VA							PANEL ESTIMATED DEMAND (AMPERES)	92 A			
80	00 VA	50%	50% 4000 VA										

STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR

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SHEET NUMBER:

E-201 **BID DOCUMENTS** 11/15/24

UNTING OF FIXTURE. MOUNT S OTHERWISE NOTED. REFER PROVIDE A1 FIXTURE WITH

JTTON TYPE PHOTO CONTROL JMINATE WHEN ADEQUATE RAL PHOTOCELL. FIXTURE VITH FIVE MINUTE TIME DELAY J SENSOR. WHEN ACTIVITY IS EN OUTPUT. COORDINATE COLD WEATHER BATTERY

ND DIRECTIONAL ARROWS AS ED MOUNT AT 7'-6" AFF OR IF OVE TOP OF DOOR FRAMES. IL BATTERY PACK.

NO SCALE

4 ON/OFF RELAY/LOAD LIGHTING CONTROL SYSTEM WIRING DIAGRAM

NO SCALE

LOW VOLTAGE LIGHT SWITCH 'N' DETAIL 2 NO SCALE

LOW VOLTAGE LIGHT SWITCH 'N' DETAIL NOTES

1. SEE LIGHTING PLANS FOR SWITCH GROUPS.

2. SEE THE LOW VOLTAGE SWITCH SCHEDULE FOR ADDITIONAL INFORMATION.

3 GFI RECEPTACLE WIRING DIAGRAM

GFI RECEPTACLE WIRING DIAGRAM DETAIL NOTES:

1. WIRE GFI DEVICE SUCH THAT THE DOWNSTREAM DEVICES ARE NOT AFFECTED BY GROUND FAULT INTERRUPTION. IE. NON FEED THRU. EACH GFI DEVICE SHALL BE SELF PROTECTING ONLY.

STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR

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SHEET TITLE: **Electrical Details**

SHEET NUMBER:

E-301 **BID DOCUMENTS** 11/15/24