SET NO.

## TOWN OF LEAVENWORTH CRAWFORD COUNTY, INDIANA

# LIFT STATION #2 IMPROVEMENTS PROJECT

JANUARY 2025

### **TOWN OF LEAVENWORTH COUNCIL**

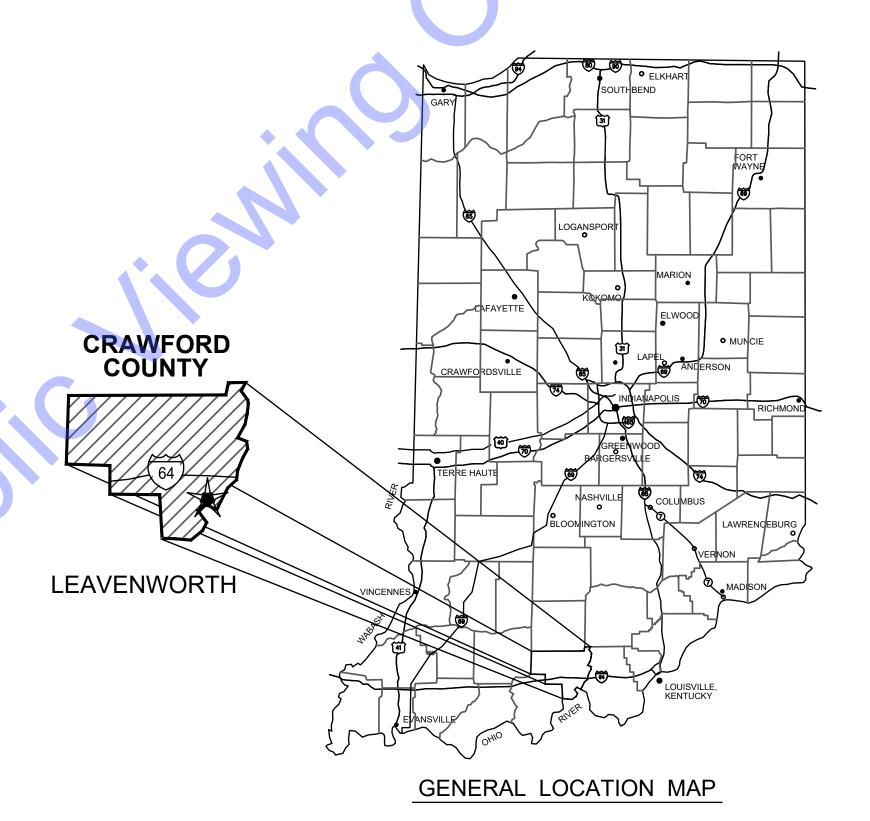
JAMES ULAND\_\_\_\_\_\_PRESIDENT
DARRYL DAILY\_\_\_\_\_MEMBER

DARLENE VASSER \_\_\_\_\_MEMBER

SAMANTHA LAHUE\_\_\_\_\_CLERK-TREASURER

HEATHER PETERS\_\_\_\_\_ ATTORNEY

JEFF LAHUE \_\_\_\_\_ UTILITY SUPERINTENDENT





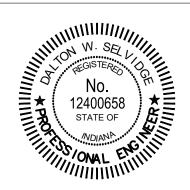
QA/QC BY : RUDOLPH J. NOTICH, P.E.

01/20/2025 DATE :

CERTIFIED BY :

DALTON SELVIDGE
INDIANA P.E. No. 12400658

01/20/2025 DATE :



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**CONTRACT NO. : \$24103** 

### **PROJECT LOCATION &** LS#2 DISCHARGE LOCATION MAP

SCALE: 1"=1000'-0"

UTILITY CONTACT INFORMATION

DUKE ENERGY DON MCDUFFY 812-596-1972 **BRITTANY THOMAS** 

812-596-1972

WATER CRAWFORD COUNTY WATER CO., INC. CARROL RIDDLE 812-365-9528

INDIANA NATURAL GAS CORPORATION PHIL ROSS 812-723-2151

812-870-8195

MAINSTREAM FIBER NETWORKS LLC KREIG WALLEN

TOWN OF LEAVENWORTH JEFF LAHUE 812-972-3261

### SITE ADDRESSES

OPPORTUNITY AVE LEAVENWORTH, IN 47137

LS #2 DISCHARGE SR 62 LEAVENWORTH, IN 47137

- 1. THE PROJECT CONSISTS OF REHABILITATION OF LIFT STATION #2; INCLUDING BUT NOT LIMITED TO NEW PUMP, 6" DISCHARGE PIPING, RAILS, AND FLOATS; THE REMOVAL AND REPLACEMENT OF SELECT WET WELL COMPONENTS; ELECTRICAL COORDINATION; NEW CONTROLS AND DRIVE AS SHOWN.
- 2. ONLY VISIBLE ABOVE GROUND UTILITY INFRASTRUCTURE OR ACTUAL FIELD MARKINGS DESIGNATING EXISTENCE OF A BURIED UTILITY OR UTILITY PROVIDING AS-BUILT/BEST AVAILABLE MAPPING ARE INCLUDED ON THE PLANS, WITHIN THE SPECIFIC PROJECT LIMITS. BURIED UTILITIES WERE LOCATED AT THE SITE THROUGH INDIANA 811 LOCATING SERVICE (1-800-382-5549). LOCATION OF SUCH UTILITIES, SHOWN WITHIN THESE PLANS, ARE SUBJECT TO THE ACCURACY STANDARDS AS ESTABLISHED BY INDIANA CODE 8-1-26. NO ATTEMPT HAS BEEN MADE AS PART OF THE SURVEY TO OBTAIN OR SHOW DATA CONCERNING SIZE, DEPTH, CONDITION OR CAPACITY OF SAID BURIED UTILITIES, UNLESS SPECIFICALLY NOTED OR SHOWN ON THE PLANS. THE ENGINEER, OWNER OR ASSOCIATED CONSULTANTS/PERSONNEL DO NOT CERTIFY AS TO THE ACCURACY OR COMPLETENESS OF THE BURIED UTILITIES SHOWN HERE-IN.
- 3. ALL EXISTING AND NEW UTILITY INFORMATION, INCLUDING SIZES, LOCATIONS, AND/OR ELEVATIONS, AS SHOWN ON THE DRAWINGS ARE BASED ON AVAILABLE INFORMATION. THE ENGINEER DOES NOT GUARANTEE THE INFORMATION TO BE TRUE, ACCURATE, OR ALL INCLUSIVE. THE INFORMATION IS NOT TO BE RELIED UPON AS BEING COMPLETE OR EXACT. THE CONTRACTOR IS RESPONSIBLE FOR THE ACCURATE LOCATION OF ALL UTILITIES AND HAZARDS WHETHER SHOWN ON THESE PLANS OR NOT. THE CONTRACTOR MUST CONTACT THE APPROPRIATE UTILITY COMPANIES AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION TO REQUEST FIELD LOCATION OF UTILITIES.
- OTHER BURIED UTILITIES MAY BE IN PROJECT AREA, MARK ALL UTILITIES BEFORE CONSTRUCTION. PRIOR TO ANY EXCAVATION TAKING PLACE ON SITE, CONTACT INDIANA UNDERGROUND 811 AND THE APPROPRIATE UTILITY COMPANY FOR LOCATION OF ALL LINES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL RESIDENTS OF INTERRUPTION TO THEIR UTILITIES THAT WILL BE CAUSED OR IS CAUSED BY THE CONSTRUCTION.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION AND ELEVATION OF ALL UTILITIES PRIOR TO COMMENCING CONSTRUCTION. CONTRACTOR SHALL REPORT, IN WRITING TO THE ENGINEER, ANY CHANGE IN SITE CONDITIONS THAT MAY POTENTIALLY AFFECT THE SEWER FACILITIES INSTALLATION.
- AS SPECIFIED IN THE WORKMANSHIP AND MATERIALS SECTION 2, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL EXISTING UNDERGROUND UTILITIES, INCLUDING BUT NOT LIMITED TO: EXISTING UNDERGROUND TELEPHONE, FIBER OPTIC CABLES, STORM SEWERS AND STRUCTURES, CABLE TV, ELECTRICAL, WATER FACILITIES AND STRUCTURES, GAS AND SANITARY SEWERS AND STRUCTURES. IN SOME INSTANCES CONTRACTOR MAY BE REQUIRED TO RUN NEW SEWER FACILITIES PARALLEL AND UNDERNEATH BURIED CABLES, ELECTRICAL FACILITIES AND FIBER OPTICS, AS WELL AS ABOVE GROUND ELECTRICAL BOXES AND CABLE PEDESTALS. CONTRACTOR SHALL NOTIFY UTILITY OWNER(S) TO VERIFY TECHNIQUES ACCEPTABLE TO TEMPORARILY SHORE/BRACE OR TEMPORARILY OR PERMANENTLY RELOCATE THESE FACILITIES TO ACCOMMODATE THE WATER FACILITY INSTALLATION. CONTRACTOR SHALL CONTACT RESPECTIVE UTILITY TO TEMPORARILY HOLD OR SHORE EXISTING UTILITY POLES (AND GUY ANCHORS) THAT COULD POTENTIALLY BE AFFECTED BY OPEN CUT EXCAVATIONS.
- 7. PORTIONS OF THE EXISTING FEATURES SHOWN WERE DRAWN USING 2016 DIGITAL ORTHO-PHOTOGRAPHY DATA.
- 8. INFORMATION ON THESE DRAWINGS IS INTENDED ONLY FOR THE IDENTIFIED PROJECT SHOWN ON THIS PLAN
- 9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING ALL REQUIREMENTS OF GOVERNMENT AGENCIES AND
- 10. THE CONTRACTOR SHALL CONTACT THE TOWN OF LEAVENWORTH OR THEIR DULY ASSIGNED REPRESENTATIVES (2) DAYS BEFORE CONSTRUCTION IS STARTED. THE CONTRACTOR SHALL REPORT, TO THE RESPECTIVE UTILITY, ANY BREAKS, LEAKS, DENTS, OR ANY DAMAGE TO THE THEIR FACILITIES. THE CONTRACTOR SHALL GIVE DAILY NOTICE, TO THE OWNER OR DULY ASSIGNED REPRESENTATIVE, WHEN WORK IS NOT BEING PERFORMED AT THE
- 11. EROSION CONTROL SILT FENCES OR INLET PROTECTION DEVICES SHALL BE PLACED BELOW ALL AREAS DISTURBED DURING CONSTRUCTION AND THAT DRAINS TO WATERWAYS, PRIOR TO COMMENCING WITH WORK
- 12. THE CONTRACTOR SHALL ERECT AND MAINTAIN ALL NECESSARY BARRICADES, DETOUR SIGNS, WARNING SIGNALS AND LIGHTS BY NIGHT (IN CONFORMANCE WITH THE INDIANA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES -LATEST EDITION) REQUIRED TO DIRECT TRAFFIC SAFELY OVER OR AROUND THE PLACE WHERE SUCH WORK IS BEING DONE, SO LONG AS THE WORK IN ANY WAY INTERFERES WITH TRAFFIC.
- 13. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND/OR ORDERING MATERIAL AND REPORT ANY DISCREPANCIES TO THE ENGINEER IN WRITING.

DRAWING SET INDEX				
SHEET No. DRAWING No. TITLE				
		GENERAL		
1	G1	COVER SHEET		
2	G2	DRAWING SET INDEX, PROJECT LOCATION MAP & GENERAL NOTES		
3	G3	ABBREVIATIONS AND SYMBOLS		
4 G4 EXISTING DISCHARGE MANHOLE MAP AND SURVEY CONTROL PLAN				
		CIVIL		
5	D1	LIFT STATION No. 2 DEMOLITION & IMPROVEMENT DETAILS		
6	LS2	LIFT STATION No. 2 SITE DEMOLITION & IMPROVEMENTS PLAN & DETAILS		
		ELECTRICAL		
7	E0-0	ELECTRICAL LEGENDS AND SCHEDULES		
8	E1-0	LIFT STATION No. 2 ELECTRICAL SITE PLAN		
9	E2-0	LIFT STATION No. 2 ONE LINE DIAGRAM		
10	E3-0	ELECTRICAL DETAILS		

- 14. WHERE SEWER FACILITIES ARE SHOWN IN STREET, ROAD AND/OR ALLEY RIGHTS-OF-WAY OR DEDICATED EASEMENTS, CONSTRUCTION SHALL BE LIMITED TO SAID RIGHTS-OF-WAY UNLESS SHOWN OTHERWISE.
- 15. DURING EXCAVATION OPERATIONS, SEGREGATE OUT ALL TOPSOIL AND STOCKPILE FOR SUBSEQUENT USE IN AREAS TO BE SEEDED OR SODDED. EXTRA CARE SHALL BE TAKEN TO AVOID MIXING STOCKPILED MATERIAL WITH OBJECTIONABLE MATERIAL
- 16. CONTRACTOR SHALL MAINTAIN 18" MINIMUM VERTICAL SEPARATION AND 10' MINIMUM HORIZONTAL SEPARATION BETWEEN EXISTING WATER MAIN AND NEW SANITARY SEWER. WHEN CROSSING VERTICALLY, SEWER SHALL BE LOCATED BELOW WATER MAIN AND SEWER SHALL HAVE PIPE JOINTS LOCATED AS FAR AS POSSIBLE FROM THE WATER MAIN (ONE FULL SEWER PIPE LENGTH CENTERED AT WATER MAIN).
- 17. WHEN CROSSING UNDER OR WORKING NEAR OVERHEAD POWERLINES, CONTRACTOR SHALL MAINTAIN PROPER O.S.H.A. CLEARANCE REQUIREMENTS.
- 18. ALL PIPE INSTALLED WITHIN TRAFFIC INFLUENCES AS INDICATED ON THE PLANS, OR WITHIN 5' OF A ROAD OR DRIVE BY THE OPEN TRENCH METHOD SHALL BE BACKFILLED WITH FULL DEPTH GRANULAR BACKFILL. BACKFILL REQUIREMENTS FOR OPEN CUTS OF ROADWAYS, WHETHER IMPROVED OR UNIMPROVED, SHALL BE IN STRICT ACCORDANCE WITH THE DRAWINGS AND STANDARD SPECIFICATIONS.
- 19. THE CONTRACTOR SHALL TAKE ALL RESPONSIBILITY FOR ANY INJURY OR DAMAGE RESULTING TO PERSONS OR PROPERTY BECAUSE OF SUCH WORK.
- 20. NO VISIBLE, ABOVE GROUND EVIDENCE OF CEMETERIES WERE OBSERVED AT THE SUBJECT PROPERTY, BUT THIS DOES NOT PRECLUDE THEIR EXISTENCE. IF ANY ITEMS OF ARCHAEOLOGICAL SIGNIFICANCE ARE ENCOUNTERED DURING CONSTRUCTION, THE ENGINEER ALONG WITH THE PROPER AUTHORITIES SHALL BE CONTACTED
- 21. ALL PROPERTY AND RIGHT-OF-WAY LINES INFORMATION SHOWN IN DRAWING SET ARE APPARENT AND SHALL NOT BE DEEMED EXACT LOCATIONS, UNLESS OTHERWISE NOTED. INFORMATION WAS OBTAINED VIA FIELD SURVEY.
- 22. EXISTING UTILITY INFORMATION SHOWN IN DRAWING SET, MEETS "ASCE 36-02" QUALITY LEVEL "B". UNLESS OTHERWISE NOTED.

**UTILITY QUALITY LEVEL DESCRIPTIONS:** 

UTILITY COORDINATION AND PROJECT DIRECTION OF EXISTING SUBSURFACE UTILITY DATA:

<u>UTILITY QUALITY LEVEL A</u> - PRECISE HORIZONTAL AND VERTICAL LOCATION OF UTILITIES OBTAINED BY THE ACTUAL EXPOSURE (OR VERIFICATIONS OF PREVIOUSLY EXPOSED AND SURVEYED UTILITIES) AND SUBSEQUENT MEASUREMENT OF SUBSURFACE UTILITIES, USUALLY AT A SPECIFIC POINT. ACCURACY OF LOCATION MATCHES PROJECT SURVEY TOLERANCE. UTILITY QUALITY LEVEL B - INFORMATION OBTAINED THROUGH THE APPLICATION OF APPROPRIATE SURFACE GEOPHYSICAL METHODS TO DETERMINE THE EXISTENCE AND APPROXIMATE HORIZONTAL POSITION SUBSURFACE UTILITIES. THE RELIABILITY OF THIS INFORMATION IS SURVEYED TO PROJECT CONTROL AND SUBJECT TO ACCURACY LEVELS OF THE GEOPHYSICAL TOLERANCE DEFINED BY THE PROJECT.

<u>UTILITY QUALITY LEVEL C</u> - INFORMATION OBTAINED BY SURVEYING AND PLOTTING VISIBLE ABOVE GROUND UTILITY FEATURES AND CORRELATING QUALITY LEVEL "D" INFORMATION. **UTILITY QUALITY LEVEL D** - INFORMATION DERIVED FROM EXISTING RECORDS OR VERBAL RECOLLECTIONS.

23. NORTHING AND EASTING COORDINATES SHOWN ON ALL MANHOLE, INLETS, ETC. ARE SHOWN FROM CENTER OF STRUCTURE NOT CASTING, UNLESS OTHERWISE NOTED.

THE DETAIL SPECIFICATIONS SHALL BE THE PRIMARY TECHNICAL SPECIFICATION REQUIREMENT FOR ALL WORK UNDER THIS CONTRACT. WHERE TECHNICAL SPECIFICATIONS OR MANUALS ARE IN CONFLICT, THE FOLLOWING ORDER, THE FIRST ENUMERATED, SHALL GOVERN OVER ANY OTHER COMPONENT OR PART WHICH FOLLOWS IT NUMERICALLY:

- 1. DETAILED SPECIFICATIONS
- 2. PLANS 3. WORKMANSHIP AND MATERIALS

LEAVENWORTH COUNTY, INDIANA OF RD

C

Designed By: Drawn By: Checked By DMJ DWS

DRAWING SET INDEX, PROJECT LOCATION MAP & GENERAL NOTES

ssue Date: |Project No:| Scale:

01/20/2025 | S24103 | AS SHOWN

Drawing No:

### **GENERAL ABBREVIATIONS**

A AB AFF ALT ALUM	AIR ANCHOR BOLT ABOVE FINISH FLOOR ALTERNATE ALUMINUM	G GALV GEN GRD	GAS GALVANIZED GENERAL GROUND OR GRADE
@	AT	НВ	HOSE BIBB
APP.	APPARENT	HORIZ	HORIZONTAL
ATT	AERATION TANK TRANSFER	HP	HORSEPOWER
AUTO	AUTOMATIC	HW	HOT WATER
AVG	AVERAGE		
		ID	INSIDE DIAMETER
В	BAFFLE	IJ	ISOLATION JOINT
BLDG	BUILDING	INV	INVERT
ВМ	BENCH MARK	IΡ	IRON PIN
вот	BOTTOM		
BRG	BEARING	LAV	LAVATORY
		LB	POUND
CFM	CUBIC FEET PER MINUTE	LL	LIVE LOAD
CL	CENTERLINE	LLV	LONG LEG VERTICAL
CO	CLEAN OUT	LTG	LIGHTING
COL/C	COLUMN		
CONC	CONCRETE	MAX	MAXIMUM
COP	COPPER	MCC	MOTOR CONTROL CENTER
CJ	CONSTRUCTION JOINT	MGD	MILLION GALLONS PER DAY
CP	CONTROL POINT	MH	MANHOLE
CW	COLD WATER	MIN	MINIMUM, MINUTE
CY	CUBIC YARD	MJ	MECHANICAL JOINT
D	DRAIN	NC	NORMALLY CLOSED
DEC	DECANT	NG	NATURAL GAS
DIA	DIAMETER	NIC	NOT IN CONTRACT
<i>5</i> ,, ,			

S	SAN	SANITARY
S	SAS	SANITARY SEWER
S	SCH	SCHEDULE
S	SECT	SECTION
S	3F	SQUARE FEET
S	SHT	SHEET
S	SL	SAMPLE LINE
S	SOS	STORM SEWER
S	SP.	STOP PLATE
S	SQ	SQUARE
S	STD	STANDARD
S	STL, SS	STAINLESS STEEL
S	STL	STEEL
S	SUP	SUPERNATANT
S	SY	SQUARE YARD

STL	STEEL
SUP	SUPERNATANT
SY	SQUARE YARD
TOS	TOP OF SLAB
TOW	TOP OF WALL
TW	TERTIARY WATER
TYP	TYPICAL

TYP	TYPICAL	
V VAR VERT	VACUUM OR VALVE VARIES VERTICAL	

W	WEIR
W/	WITH
W/O	WITHOUT
WAS	WASTE ACTIVATED SLUDGE
WC	WATER CLOSET
WH	WATER HEATER
WL	WATER LINE

WELDED WIRE FABRIC

YARD HYDRANT

### FINISHED FLOOR ELEVATION RCP REINFORCED CONCRETE PIPE RD **ROOF DRAIN** FIRE HYDRANT FILTRATE DRAIN

REINFORCING REINF REQUIRED R/W (ROW) RIGHT-OF-WAY

NO NO.

OC OD

OPG

OPP

POJ

PSF PSI

PVC

PW

RAD

RAS

NORMALLY OPEN

NON-POTABLE WATER

OUTSIDE DIAMETER

POLYETHYLENE EXP. JT. MATERIAL

POUNDS PER SQUARE FOOT

POUNDS PER SQUARE INCH

RETURN ACTIVATED SLUDGE

POLYVINYL CHLORIDE

POTABLE WATER

RECIRCULATION

**RADIUS** 

NUMBER

ON CENTER

OPENING

OPPOSITE

PULL BOX

PROPERTY LINE

**PUSH ON JOINT** 

FORCE MAIN FRP FIBER REINFORCED PLASTIC FEET OR FOOT

DIM

DI

DL

EΑ

EFFL

EW

EX

EXF

FD

FDN

FFE

FLD

FLG

FLR

FM

FT

FTG

FΗ

EXP JT

DSPT

DWG

DIMENSION

DEAD LOAD

DRAWING

EACH FACE

**EFFLUENT** 

**ELEVATION** 

**EACH WAY** 

**EXISTING** 

**FILTER** 

EXHAUST FAN

RESTRAINED

FLOOR DRAIN

FOUNDATION

FLUSHING LINE

FINISHED WATER

FLANGE

FLOOR

FOOTING

**EXPANSION JOINT** 

FLANGED COUPLING ADAPTER,

EACH

DOWN SPOUT

DUCTILE IRON PIPE

ELECTRICAL CONDUIT

GENERAL SCHEMATIC LEGEND

[====	QUICK DISCONNECT	O	BOOSTER PUMP
	FLANGED SPOOL SECTION	ARV O	AIR RELIEF VALVE
PRV	PRESSURE REDUCER VALVE	FM	FLOW METER
,	FLANGED COUPLING ADAPTER	$\bigvee^{GV}$	GATE VALVE
Z	BALL CHECK VALVE	FCV	FLOW CONTROL VALVE
$lack{M}$	MOTOR ACTUATOR	$\bowtie$	VALVE
X	FLEXIBLE CONNECTION	$\bowtie$	ECCENTRIC PLUG VALVE
SCR	FLANGE FILLER & S.S. MESH SCREEN	И	CHECK VALVE
W V90	90° V-NOTCH WEIR	$\nabla$	INCREASER / REDUCER
<u>.</u>	MAGNETIC FLOW METER	$\sum$ BV	BUTTERFLY VALVE
	ULTRASONIC SENSOR	∃ E	PIPE THROUGH FLOOR / WALL
Ğ	SUBMERSIBLE PUMP	اح۱	BALL VALVE
	NEW PIPING AND EQUIPMENT	<del> </del>	BLIND FLANGE OR PLUG
	EXISTING PIPING AND EQUIPMENT		HOSE BIBB
	FUTURE PIPING AND EQUIPMENT	<u>-</u>	STOP PLATE

HATCHING SYMBOLS

	-CMU WALL (PLAN VIEW) -GRANULAR BACKFILL (PROFILE VIEW)
	- DEMOLITION (CONTRACTOR SHALL REFER TO DETAILED SPECIFICATIONS)
	- GROUT
4.4.4.	- CONCRETE
	- STEEL
	- COMPACTED GRANULAR BACKFILL OR COMPACTED FOUNDATION
	- ABANDONED IN PLACE

— x — \_\_\_\_ **|**==== **|---**— —

**DISCLAIMER NOTE:** THIS DRAWING REFLECTS TYPICAL INFORMATION, SOME MAY NOT BE APPLICABLE TO THIS PROJECT.

DRAWING SET LEGEND

	DIAWING SET L	<u>.LG</u>	LIND		
— EXOHT ——— EXOHT ———	EXISTING OVERHEAD TELEPHONE LINE	0	AC UNIT	$\bigcirc$	TELEPHONE MANHOLE
− EXG ———————————————————————————————————	EXISTING GAS LINE AND VALVE	0	BOLLARD	$\Diamond$	TELEPHONE LINE MARKER
– EXW ———————————————————————————————————	EXISTING WATER LINE AND VALVE	$\Diamond$	BOULDER / LARGE ROCK	®	TRAFFIC MANHOLE
— EXF/O ——— EXF/O ———	EXISTING FIBER OPTIC LINE	⊠CL	CENTER LINE MONUMENT	<b></b>	WATER LINE MARKER
— EXOHE ——— EXOHE ———	EXISTING OVERHEAD ELECTRIC LINE	<b>�</b>	CONTROL POINT / BENCH MARK	<b>(W)</b>	WATER METER
— EXBE ——— EXBE ———	EXISTING BURIED ELECTRIC	•	DRILL HOLE	₩V	VALVE
NPW NPW	EXISTING NON-POTABLE WATER LINE	MB	MAIL BOX	×	IRRIGATION CONTROL VALVE
POT —— POT —— POT ——	EXISTING POTABLE WATER LINE	D	FLAG POLE	Q	FIRE HYDRANT
EXBT	EXISTING BURIED TELEPHONE LINE	0	POST	F	FLUSH HYDRANT
xxx	EXISTING FENCE	0	STUMP	$\varnothing$	YARD HYDRANT
APP. R/W	APPARENT RIGHT-OF-WAY	£3	BUSH / HEDGE	$\bowtie$	WALL SPIGOT
APP. P/L	APPARENT PROPERTY LINE		DECIDUOUS TREE	_	EXISTING PIPE PLUG
<u>-</u>	EDGE OF ROAD		CONIFEROUS TREE		STORM CATCH BASIN (SQUARE)
	EDGE OF NOAD	•	SIGN		STORM CATCH BASIN (ROUND)
<del>-</del>	EDGE OF ROAD WITH CURB	₫	UTILITY LOCATE FLAG		STORM CURB INLET
		<b>ⓒ</b>	GAS LINE MARKER	<b>(</b>	STORM MANHOLE
785	EXISTING MAJOR CONTOUR LINE	GV	GAS VALVE	S	SANITARY MANHOLE
784	EXISTING MINOR CONTOUR LINE	<b>©</b>	GAS METER	sv X	SANITARY VALVE
— SN — — — SN — —	NEW SANITARY SEWER GRAVITY LINE	-①	GUY POLE	<ul><li>•</li></ul>	CLEANOUT
	NEW SANITARY SEWER FORCE MAIN	Ø	POWER POLE	X	VENT
785	PROPOSED MAJOR CONTOUR LINE	어	LIGHT POLE		NEW PLUG
784	PROPOSED MINOR CONTOUR LINE	$\leftarrow$	GUY WIRE	00	NEW CUT AND CAP
[101]		EM	ELECTRIC METER		
		≡≡	ELECTRIC PANEL		
		ET	ELECTRIC TRANSFORMER		
CLAIMER NOTE:			HAND HOLE BOX		

FIBER OPTIC MARKER

TEL/TV PEDESTAL

01/20/2025 Date

**FOWN OF LEAVENWORTH**AWFORD COUNTY, INDIANA

Designed By: Drawn By: Checked By ssue Date: Project No: Scale: 01/20/2025 | S24103 | AS SHOWN

ABBREVIATIONS AND SYMBOLS

G3

Sheet: 3 OF 10



### **SHEET NOTES:**

- SURVEY AND FIELD WORK COMPLETED BY HENNESSY SURVEYING, INC. 128 N WEST ST, PRINCETON, IN 47670. PHONE: (812) 635-9002
- CONTRACTOR SHALL VERIFY CONTROL POINT ELEVATIONS AGAINST A BENCHMARK (TBM) PRIOR TO USE IN THE EVENT THE CONTROL POINT HAS BEEN DISTURBED SUBSEQUENT TO THE SITE SURVEY BEING COMPLETED.
- THIS DRAWING IS NOT INTENDED TO BE REPRESENTED AS A RETRACEMENT OR ORIGINAL BOUNDARY SURVEY, A ROUTE SURVEY, OR A SURVEYOR LOCATION REPORT.



CONTROL POINTS						
IDENTIFIER DESCRIPTION NORTHING EASTING ELEVATION						
CP #03	5/8" REBAR WITH CAP	1089037.39	129360.58	690.74		
CP #04	5/8" REBAR WITH CAP	1088969.40	129493.84	700.59		

Project coordinates are based on the following:

HORIZONTAL-US State plane coordinates: NAD83 (North American Datum) Indiana West Zone (1302) VERTICAL- USGS 1988 NAVD (North American Vertical Datum)-per GPS observations (Not verified by physical location of published USGS monuments)

MOIANA ERILLIAMON WILLIAMON W Schidae 01/2

n W Reluidge 01/2 re Da

TOWN OF LEAVENWORTH
SRAWFORD COUNTY, INDIANA
LEAVENWORTH LS#2
IMPROVEMENTS PROJECT

Know what's below. 811 before you dig.

On Date Designed By: Drawn By: Checked By: DMS DMJ RJN

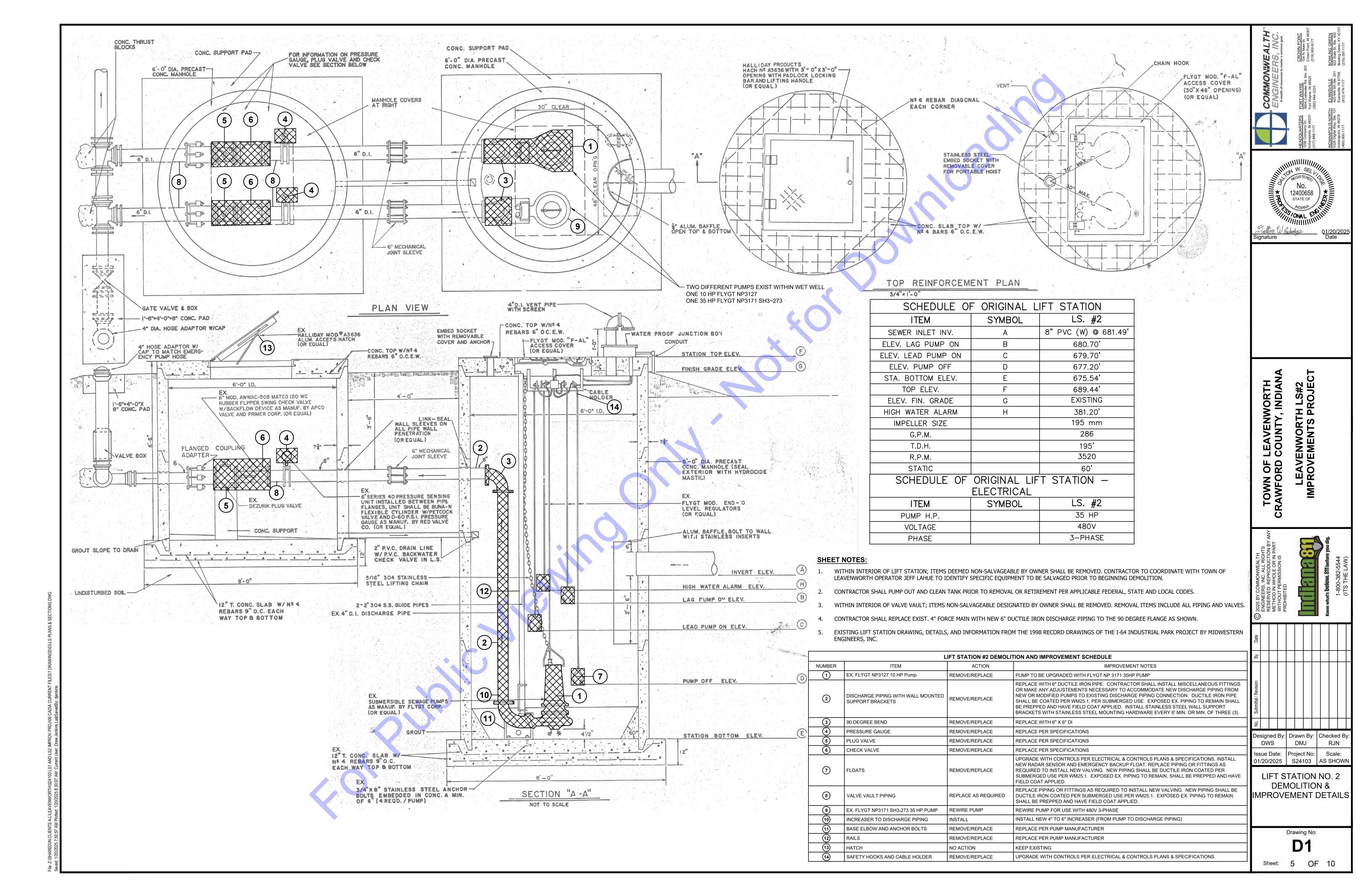
Issue Date: Project No: Scale: 01/20/2025 S24103 AS SHOWN

EXISTING DISCHARGE MANHOLE MAP AND SURVEY CONTROL

SURVEY CONTROL PLAN

Drawing No:

neet: 4 OF







LIFT STATION #2 SITE DEMOLITION AND IMPROVEMENTS PLAN



LIFT STATION #2 EXTERNAL VIEW (LOOKING EAST)

**PHOTO** NOT TO SCALE



LIFT STATION #2 CONTROL PANEL (LOOKING EAST)

**PHOTO** NOT TO SCALE





**LIFT STATION #2 WET WELL INTERIOR VIEW** 

**PHOTO** NOT TO SCALE



LIFT STATION #2 VALVE VAULT INTERIOR VIEW

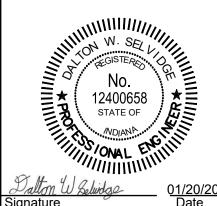
**PHOTO** NOT TO SCALE

### **DEMOLITION NOTES:**

- 1. CONTRACTOR SHALL COORDINATE WITH OWNER LIFT STATION MANAGER TO IDENTIFY SPECIFIC EQUIPMENT TO BE SALVAGED PRIOR TO BEGINNING DEMOLITION.
- 2. ALL OWNER SALVAGED MATERIALS SHALL BE DELIVERED TO THE WWTP.
- 3. CONTRACTOR SHALL PROPERLY DISPOSE OF ALL NON-SALVAGED MATERIALS.
- 4. CONTRACTOR SHALL DEMO EXISTING PUMP CONTROL PANEL AND APPURTENANCES, INCLUDING BUT NOT LIMITED TO: PANEL, PEDESTAL, DISCONNECT & MANUAL TRANSFER SWITCHES, JUNCTION BOX, ALARM, CONDUITS & WIRING. REFER TO SHEET 5 FOR SPECIFIC LIFT STATION ITEMS AND DETAILS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION AND COST ASSOCIATED WITH UTILITY DISCONNECTION. CONTRACTOR SHALL CONTACT DUKE ENERGY, AT 812-596-1972. DUKE WILL CUT POWER AND REMOVE METER. CONTRACTOR SHALL REMOVE ALL OTHER ELECTRIC COMPONENTS, INCLUDING BUT NOT LIMITED TO: SERVICE, WIRING & CONDUITS.
- 6. CONTRACTORS SHALL SALVAGE EXISTING TELEMETRY AND CONTROL PANEL. CONDITION OF TELEMETRY SHALL BE DOCUMENTED IN PRESENCE OF TOWN PERSONNEL BEFORE REINSTALLATION OF NEW CONTROL PANEL.
- 7. CONTRACTOR TO REMOVE OR TRIM EXISTING TREES AS NEEDED FOR CONSTRUCTION. COORDINATE TREE REMOVAL AND DISPOSAL WITH OWNER.

### **IMPROVEMENTS NOTES:**

- 1. CONTRACTOR SHALL PROVIDE DRAINAGE AROUND THE EXISTING VALVE VAULT AND WET WELL. SLOPE EX. GRADE AWAY FROM THE STRUCTURES AND PROVIDE TWO INCH EXPOSURE TO ELIMINATE WATER FROM ENTERING THE HATCHES. BUILD A FLAT, AGGREGATE PAD - MIN. 4' x4', IN FRONT OF CONTROL PANEL. PAD ELEVATION TO MATCH EX. WET WELL ELEVATION. PROVIDE ADEQUATE DRAINAGE FROM THE PAD AND CONTROL PANEL.
- 2. CONTRACTOR TO PROVIDE AGGREGATE OVERLAY AND FILL IN LOW LYING AREAS IN DRIVEWAY TO THE LIFT STATION, REFER TO SHADED AREA ON SITE PLAN. ON ENTRANCE DRIVEWAY, CONTRACTOR TO PROVIDE A MINIMUM OF TWO WATER BARS TO SHED WATER OFF DRIVEWAY. ADDITIONAL AGGREGATE OVERLAY TO BE INSTALLED AT LIFT STATION SITE.
- 3. AGGREGATE TO BE INDOT COMPACTED AGGREGATE BASE No. 53. AGGREGATE AND AMOUNTS TO BE INSTALLED AS AUTHORIZED BY OWNER AND ENGINEER.



OWN OF LEAVENWORTH AWFORD COUNTY, INDIANA LEAVENWORTH LS#2 PROVEMENTS PROJECT

Designed By:| Drawn By: | Checked By

ssue Date: Project No: Scale: 1/20/2025 | S24103 | AS SHOWN LIFT STATION NO. 2 SITE DEMOLITION & **IMPROVEMENTS PLAN** 

& DETAILS

DMJ

DWS

		INSTRUMENT SOCIE	TY OF AMERICA TABLE			
	FIRST LETTER(S) SUCCEEDING LETTER(S)					
ETTER	PROCESS OR INITIATING VARIABLE	MODIFIER	READOUT OR PASSIVE FUNCTION	OUTPUT FUNCTION	MODIFIER	
Α	ANALYSIS		ALARM(W. LOGGING)	ANNUNCIATE	<del>†                                      </del>	
В	BURNER COMBUSTION		USERS CHOICE(*)	USERS CHOICE(*)	USERS CHOICE(*)	
С	USERS CHOICE(*)		,	CONTROL	CLOSE	
D	USERS CHOICE(*)	DIFFERENTIAL				
Е	VOLTAGE		PRIMARY ELEMENT	1	1	
F	FLOW RATE	RATIO	THE STATE OF THE S		FEEDBACK	
G	USERS CHOICE(*)		GLASS	1		
H	HAND (MANUAL)		02,100		HIGH	
	CURRENT		INDICATE			
.1	POWER	SCAN	INDIO/TIE	1		
K	TIME OR SCHEDULE	TIME RATE OF CHANGE	KEYPAD(DATA ENTRY)	CONTROL STATION		
1	LEVEL		LIGHT(PILOT)		LOW	
М	MOTOR	MOMENTARY			MONITORING	
N	USERS CHOICE(*)		USERS CHOICE(*)	USERS CHOICE(*)	USERS CHOICE(*)	
0	USERS CHOICE(*)		ORIFICE			
P	PRESSURE OR VACUUM		POINT TEST CONNECTION	1		
Q	QUANTITY	INTEGRATE		1		
Ř	RADIATION		RECORD, TREND, LOG	İ		
S	SPEED OR FREQUENCY	SAFETY	TREGOTAL, TREITE, EGG	SWITCH		
Т	TEMPERATURE	i	<u> </u>	TRANSIT		
Ü	UNIVERSAL/MULTIVARIABLE(*)	i	MULTIFUNCTION(*)	MULTIFUNCTION(*)	MULTIFUNCTION(*)	
V	VIBRATION	i	VALUE	VALVE		
W	WEIGHT, FORCE, TORQUE	i	WELL	W		
X	UNCLASSIFIED(*)	X AXIS	UNCLASSIFIED(*)	UNCLASSIFIED(*)	UNCLASSIFIED(*)	
Y	EVENT, STATE	Y AXIS	ONOL/ICON IED( )	RELAY OR COMPUTE(*)		
Z	POSITION, DIMENSION	Z AXIS		DRIVE, ACTUATE OR UNCLASSIFIED FINAL CONTROL ELEMENT		

(\*) WHEN USED, EXPLANATION IS SHOWN ADJACENT TO INSTRUMENT SYMBOL

SPECIAL CASES: ETM - ELAPSED TIME METER
JBX - JUNCTION BOX NDX - INDEX # MS - MOTOR STARTER MOR - MOTOR OVERLOAD RELAY
MPR - MOTOR PROTECTION RELAY

### CONDUIT NOTES

PVC SCHEDULE 40 BELOW GRADE.

ENGINEER APPROVED.

RIGID ALUMINUM OR PVC COATED RGS CONDUIT ABOVE GRADE OUTDOORS. RIGID ALUMINUM OR PVC COATED RGS CONDUIT IN CLASSIFIED AND CORROSIVE

NO CONDUIT SHALL BE RAN ON TOP OF A DECK, ON A WALKWAY, OR IN AN AREA THAT MAY POSE A TRIP HAZARD. NO CONDUIT SHALL BE RAN ABOVE A DECK. ABOVE A WALKWAY, OR IN AN AREA THAT IS COMMONLY TRAVELED. ALL CONDUIT IN SUCH AREAS SHALL BE COORDINATED WITH THE OWNER/ENGINEER AND SHALL BE RAN BELOW GRADE OR IN THE CONCRETE DECKING OR PAD. CONDUIT RAN IN CONCRETE DECKING OR PAD SHALL BE AVOIDED WHEN POSSIBLE. IF CONDUIT IS TO BE ROUTED IN A STRUCTURAL CONCRETE DECK, PAD, WALL, ETC. IT SHALL BE COORDINATED AND APPROVED BY THE ENGINEER PRIOR TO INSTALLATION, CONDUIT RAN IN CONCRETE CAN IMPACT THE STRUCTURAL INTEGRITY OF CONCRETE. IT IS THE CONTRACTORS RESPONSIBILITY TO CONFORM TO ANY REQUIREMENTS REQUIRED OF THE STRUCTURAL ENGINEER TO ACCOMMODATE THE INTEGRITY OF THE INSTALLATION AT NO COST TO THE OWNER. FOR A CONDUIT EMBEDDED IN CONCRETE TO BE CONSIDERED IT MUST BE THE ONLY REASONABLE SOLUTION AS DETERMINED BY THE ENGINEER. ALL PROPOSED INSTALLATIONS MUST COMPLY WITH ACI 318 AND BE

ALL UNDERGROUND CONDUITS SHALL BE SEALED AT BOTH ENDS.

NO CONDUIT PENETRATIONS ON THE TOP OF ANY OUTDOOR PANELS/ENCLOSURES.

EMT IS ACCEPTABLE IN CONDITIONED ELECTRICAL ROOMS AND OFFICE/BREAK AREAS ONLY. EMT SHALL BE TRANSITIONED PRIOR TO EXITING NON CORROSIVE SPACES. EMT SHALL NOT BE USED WHEN IT CAN BE EXPOSED TO ANY CORROSIVE GASES.

### CONTROL WIRING REQUIREMENTS

EACH ANALOG INPUT REQUIRES AN 18/2 TWISTED SHIELDED PAIR IN 3/4" CONDUIT UNLESS NOTED OTHERWISE

EACH ANALOG OUTPUT REQUIRES AN 18/2 TWISTED SHIELDED PAIR IN 3/4"

CONDUIT UNLESS NOTED OTHERWISE. EACH DISCRETE INPUT REQUIRES 2 #14's IN 3/4" CONDUIT UNLESS NOTED

EACH DISCRETE OUTPUT REQUIRES 2 #14's IN 3/4" CONDUIT UNLESS

NOTE: INSTRUMENTS AND CABLE SHALL BE AS REQUIRED BY THE

INSTRUMENT MANUFACTURER.

CONTROL WIRING OF THE <u>SAME TYPE</u> MAY BE COMBINED INTO THE SAME CONDUIT. EXAMPLES: TWO 4-20MA ANALOG SIGNALS MAY BE COMBINED, TWO 24VDC DISCRETE SIGNALS MAY BE COMBINED, AND TWO 120VAC DISCRETE SIGNALS MAY BE COMBINED

### INSTRUMENT POWER

INSTRUMENTS REQUIRING 120 VAC:

MAGNETIC FLOW METERS TURBIDITY TRANSMITTERS

pH TRANSMITTERS

ORP TRANSMITTERS DO TRANSMITTERS

ULTRASONIC LEVEL TRANSMITTERS ULTRASONIC FLOW TRANSMITTERS

INFLUENT AND EFFLUENT SAMPLERS

NOTE: THIS LIST IS PROVIDED AS A REFERENCE AND IS NOT ALL INCLUSIVE. COORDINATE WITH THE GENERAL CONTRACTOR AND THE EQUIPMENT SUPPLIERS FOR DETAILED WIRING REQUIREMENTS OF INSTRUMENTS, SENSORS, AND EQUIPMENT.

# 15. PROVIDE APPROPRIATE PULL WIRE IN EACH EMPTY SYSTEMS CONDUIT INCLUDED IN EXPLOSION PROOF SWITCH \$<sub>3</sub> 3 WAY SWITCH

4 WAY SWITCH

MAGNETIC FLOW METER

SONIC FLOW METER

CENTRIFUGAL PUMP

PERISTALTIC PUMP

SUBMERSIBLE PUMP

LOBE PUMP

PUMP AND METER LEGEND

\$WP NEMA 4X SWITCH

M

	LEGEND				
YMBOL	DESCRIPTION	MTG HGT AFF TO CL, UON			
	OPEN LIGHTING FIXTURE SYMBOLOGY DENOTING FIXTURES CONNECTED TO NORMAL POWER: FIXTURE TYPE DETERMINES MOUNTING.			ABV	ABOVE
	SINGLE DIAGONAL LIGHTING FIXTURE SYMBOLOGY DENOTING FIXTURES			AFF	ABOVE FINISH
<u> </u>	CONNECTED TO CRITICAL OR EQUIPMENT BRANCH (OR EMERGENCY POWER), UON: FIXTURE TYPE DETERMINES MOUNTING.			ACLG	ABOVE FINISH
	DOUBLE DIAGONAL LIGHTING FIXTURE SYMBOLOGY DENOTING FIXTURES CONNECTED TO LIFE SAFETY BRANCH (OR EMERGENCY POWER), UON: FIXTURE TYPE DETERMINES MOUNTING.			BFC	BELOW FINIS
	BATTERY POWERED EMERGENCY LIGHTING UNIT	7'-6"	4	С	RED DEVICE
	EXIT SIGN: ARROWS DENOTE DIRECTIONAL INDICATING CHEVRON			CL	CENTER-LINE
<b>1</b>	RQMTS, SHADING DENOTES FACE(S) ORIENTATION.  WALLWASH OR OTHER DIRECTIONALLY ADJUSTABLE/AIMABLE FIXTURE:			CLG	CEILING-MOU
$\nabla \nabla$	OPEN SIDE DENOTES ORIENTATION. TYPE DETERMINES MOUNTING.  TRACK LIGHTING FIXTURE: TYPE DETERMINES MOUNTING.			COF	COFFEE MAK
	POLE-MOUNTED SITE LIGHTING FIXTURE: TYPE DETERMINES MTG.			COP	COPIER
	FLOOD LIGHTING FIXTURE: TYPE DETERMINES MOUNTING.			CTR	COUNTER
(PC)	PHOTO-CELL			ECB	ENCLOSED C
$\supset$	ALL FIXTURES IN THIS SPACE SHALL BE SAME TYPE INDICATED, U.O.N.			EMER	EMERGENCY
S	SINGLE-POLE TOGGLE SWITCH	3'-10"		EWC	ELECTRIC WA
\$	SINGLE-POLE TOGGLE SWITCH: SLASH DENOTES ESSENTIAL POWER SYSTEM CONNECTION - TYPICAL FOR ALL SWITCHES.	3'-10"		EWH	ELECTRIC WA
@ <sub>w</sub>	DUAL TECHNOLOGY, WALL MNTD OCCUPANCY SENSOR WITH MANUAL OVERRIDE SWITCH	3'-10"		FAX	FACSIMILE MA
<u></u>	DUAL TECHNOLOGY, CEILING MNTD OCCUPANCY SENSOR WITH REMOTE MANUAL OVERRIDE SWITCH			FBO	FURNISHED E
Sor	SINGLE-POLE REMOTE OVERRIDE SWITCH FOR CEILING MNTD OCCUPANCY SENSOR	3'-10"		GFCI	GROUND FAU ING - PERSON GROUND FAU
SD	DIMMER SWITCH	3'-10"		GFI	EQUIPMENT F
S <sub>D</sub> 3	THREE-WAY DIMMER SWITCH	3'-10"		HGT	HEIGHT
SP	SINGLE-POLE TOGGLE SWITCH WITH PILOT LIGHT	3'-10"		FPMR	FUSED PER M RECOMMEND
SM	SINGLE-POLE MOTOR-RATED TOGGLE SWITCH DISCONNECT	3'-10"			
ST	SINGLE-POLE OR DOUBLE-POLE MANUAL MOTOR STARTER WITH MELTING ALLOY ELEMENTS FOR THERMAL OVERLOAD PROTECTION	3'-10"			
SIR	OCCUPANCY SENSOR SWITCH	3'-10"		0)/44501	
SIT	INTERVAL TIMER RESET AND CONTROL SWITCH	3'-10"		SYMBOL	EVECOSED DA
\$ <sub>J</sub>	JOG SWITCH	3'-10"			EXPOSED RA
	MUSHROOM HEAD TYPE PUSHBUTTON STATION	5'-0"			BRANCH CIRC
P	AUTO DOOR CONTROL PUSHPLATE				OR BELOW G
Sv	VARIABLE INTENSITY CONTROLLER INCLUDED WITH OWNER-FURNISHED-CONTRACTOR-INSTALLED SURGICAL LIGHTING FIXTURE	5'-0"			GRADE LIGHTNING PI
S <sub>LV</sub>	LOW VOLTAGE CONTROL SWITCH	3'-10"			HOMERUN RA
ws	FACTORY SUPPLIED WALL CONTROLLER FOR CEILING MOUNTED LIGHT-INSTALLED BY ELECTRICAL CONTRACTOR	3'-10"			OF CIRCUITS.
<b>=</b>	120V DUPLEX RECEPTACLE, STANDARD MOUNTING HEIGHT	1'-6"			RACEWAY TU
<b>-</b>	120V DUPLEX RECEPTACLE, SPECIAL MOUNTING HEIGHT INSTALL AT SAME HEIGHT AS SWITCHES IF NO HEIGHT IS INDICATED	ABOVE COUNTER			RACEWAY VE
<b>⊕</b>	120V QUADRUPLEX RECEPTACLE, STANDARD MOUNTING HEIGHT	1'-6"			CAPPED RAC
<b>—</b>	120V QUADRUPLEX RECEPTACLE, SPECIAL MOUNTING HEIGHT INSTALL AT SAME HEIGHT AS SWITCHES IF NO HEIGHT IS INDICATED	ABOVE COUNTER		*	GENERAL LIG
θ-	120V SINGLE RECEPTACLE, AMP RATING (IF OTHER THAN 20A) SHOWN: STANDARD MOUNTING HEIGHT, OR OTHER HEIGHT AS NOTED	1'-6", UON		<u> </u>	JUNCTION BO
<del>G</del> FCI	120V GFCI DUPLEX RECEPTACLE, STANDARD MOUNTING HEIGHT	1'-6"			ENCLOSED B
<del>\$</del>	120V GFCI QUADRUPLEX RECEPTACLE, SPECIAL MOUNTING HEIGHT INSTALL AT SAME HEIGHT AS SWITCHES IF NO HEIGHT IS INDICATED	ABOVE COUNTER			LIVOLOGED B
<b>O</b> -	120V GFCI DUPLEX RECEPTACLE, SPECIAL MOUNTING HEIGHT INSTALL AT SAME HEIGHT AS SWITCHES IF NO HEIGHT IS INDICATED	ABOVE COUNTER			FUSIBLE SAF
<b>=</b>	SINGLE RECEPTACLE (OTHER THAN 120V), VOLTAGE, AMP RATING, NEMA CONFIGURATION, AND MOUNTING HEIGHT AS NOTED				NEMA ENCLO NON-FUSIBLE
₽	RECPTACLE OR J-BOX CONNECTION FOR X-RAY VIEWER: VERIFY CONNECTION RQMTS WITH UNIT FURNISHED PRIOR TO ROUGH-IN			 ⊠₁	NEMA ENCLO COMBINATION
•	120V DUPLEX RECEPTACLE IN FLUSH FLOOR-MOUNTED BOX				CIRCUIT PRO CONTROL PA
TP	TELE-POWER POLE			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	POINT ELECT
Н	HALON DUMP STATION			) }	FLEXIBLE CO
F	FIRE ALARM MANUAL PULL STATION	3'-10"			
FK	FIRE ALARM MANUAL PULL STATION, KEY-OPERATED	3'-10"			SURFACE- OF
0	FIRE ALARM CEILING-MOUNTED SMOKE DETECTOR				POWER DISTI
H	FIRE ALARM CEILING-MOUNTED HEAT DETECTOR				DRY TYPE TR
Ds	FIRE ALARM SUPPLY AIR DUCT-MOUNTED SMOKE DETECTOR				MISCELLANE
$D_R$	FIRE ALARM RETURN AIR DUCT-MOUNTED SMOKE DETECTOR			NOTE!! A	ABBREVIATIO
DR <b></b> ₹	FIRE ALARM PROJECTED BEAM SMOKE DETECTOR - RECEIVER	AS NOTED		NECESSA THAT APF	RILY APPEAR II LY.
DT <b>⊲</b>	FIRE ALARM PROJECTED BEAM SMOKE DETECTOR - TRANSMITTER	AS NOTED			
Υ	FIRE ALARM CONNECTION TO SPRINKLER SYSTEM VALVE STATUS SWITCH (TAMPER SWITCH)			ABBREVIATIO	N
FS	FIRE ALARM CONNECTION TO SPRINKLER SYSTEM WATER FLOW SWITCH			GFI	GROUND FAL
FD	FIRE ALARM AUDIO/VISUAL NOTIFICATION DEVICE-CHIME & STROBE	6'-8"		WP	WEATHER PR
F₫	FIRE ALARM AUDIO/VISIUAL NOTIFICATION DEVICE-HORN & STROBE	6'-8"		AFF	ABOVE FINIS
(F)	FIRE ALARM VISUAL ONLY NOTIFICATION DEVICE - STROBE LIGHT	6'-8"		UNO	UNLESS NOT
) ⊮⊚	FIRE ALARM SPEAKER: CEILING-MOUNTED, WALL-MOUNTED	6'-8"		FPMR	FUSE PER MA
	FIRE ALARM HORN, WALL-MOUNTED	AS NOTED		IG	ISOLATED G
HRI	DUCT SMOKE DETECTOR ALARM REMOTE INDICATOR LIGHT: CEILING-MOUNTED, WALL-MOUNTED	6'-8"		М	MONITOR RE (UNLESS VEI
I <b>H</b> SAI	DUCT SMOKE DETECTOR ALARM REMOTE INDICATOR LIGHT AND TEST SWITCH: CEILING-MOUNTED, WALL-MOUNTED	6'-8"		TSP	TWISTED SH
Z	FIRE ALARM ZONE ADDRESSABLE MODULE				
	FIRE ALARM INDIVIDUAL ADDRESSABLE MODULE		•		
•	FIRE ALARM ELECTRO-MAGNETIC DOOR HOLDER	6'-4"			
FR	FIRE RELAY			SYMBOL	
@	DESK MOUNTED INTERCOM			MS OC	ACROSS THE
(3)	WALL MOUNTED INTERCOM			SS	SOFT START
\$ <sub>X</sub>	EXPLOSION PROOF SWITCH	3'-10"		VFD	VARIABLE FF

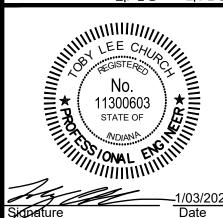
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FEEDER RACEWAY CONCEALED BELOW FLOOR SLAB OR BE GRADE  LIGHTNING PROTECTION CABLING  HOMERUN RACEWAY: NUMBER OF ARROWHEADS DENOTES OF CIRCUITS.  RACEWAY TURNING UP AS VIEWED FROM THE LOAD  RACEWAY TURNING DOWN AS VIEWED FROM THE LOAD  RACEWAY VERTICAL RISER WITH HORIZONTAL CONTINUATION LEVELS SHOWN  CAPPED RACEWAY  GENERAL LIGHTING OR OUTLET CIRCUIT - MAY BE DAISY CHOOL TO SHOW THE CONTINUATION BOX  ENCLOSED BREAKER  FUSIBLE SAFETY SWITCH (AMP RATING, POLES, FUSE SIZE, NEMA ENCLOSURE TYPE IF OTHER THAN 1 NOTED)  NON-FUSIBLE SAFETY SWITCH (AMP RATING, POLES, AND NEMA ENCLOSURE TYPE IF OTHER THAN 1 NOTED)  COMBINATION MAGNETIC ACROSS-THE-LINE STARTER WITH	WHEADS DENOTES NUMBER  THE LOAD  OM THE LOAD  NTAL CONTINUATION AT TWO  MAY BE DAISY CHAINED  OLES, FUSE SIZE, AND I NOTED  NG, POLES, AND I NOTED)  NE STARTER WITH MOTOR IE NOTED)  O EQUIPMENT (SINGLE-
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	E NOTED) O EQUIPMENT (SINGLE-
CONTROL DANIEL ELIPHICHED INTECRAL TO FOLLIDMENT (SIN	
POINT ELECTRICAL CONNECTION REQUIRED)	
MOTOR  → FLEXIBLE CONDUIT CONNECTION	

ATIONS, NOTES, AND SYMBOLS SHOWN ON THIS DRAWING DO NOT

ABBREVIATIONS			
ABBREVIATION	MEANING		
GFI	GROUND FAULT INTERRUPTER		
WP	WEATHER PROOF		
AFF	ABOVE FINISHED FLOOR		
UNO	UNLESS NOTED OTHERWISE		
FPMR	FUSE PER MANUFACTURERS RECOMMENDATIONS		
IG	ISOLATED GROUND-ORANGE RECEPTACLE		
М	MONITOR RECEPTACLE- CRITICAL POWER- RED RECEPTACLE- 60"A.F.F. (UNO) (UNLESS VENDOR DRAWINGS REQUIRE DIFFERENT HEIGHT)		
TSP	TWISTED SHIELDED PAIR		

	MOTOR CONTROLLER LEGEND	
SYMBOL	DESCRIPTION	]
MS	ACROSS THE LINE MOTOR STARTER	
ss	SOFT STARTER	
VFD	VARIABLE FREQUENCY DRIVE	
MS	ACROSS THE LINE MOTOR STARTER WITH INTEGRAL DISCONNECT	
SS	SOFT STARTER WITH INTEGRAL DISCONNECT	
VFD	VARIABLE FREQUENCY DRIVE WITH INTEGRAL DISCONNECT	
	LIGHTING LEGEND	
SYMBOL	DESCRIPTION	
0	FIXTURE WITH STANDARD BALLAST.	

FIXTURE WITH STANDARD BALLAST AND EMERGENCY BALLAST.



EAVENWORTH COUNTY, INDIANA OF RD

Designed By: Drawn By: Checked B SD SD

January 2025 | S24103 | AS SHOWN **ELECTRICAL LEGENDS** 

Issue Date: Project No: Scale:

AND SCHEDULES

S NOTED

OR FLUSH-MOUNTED LIGHTING/RECEPTACLE PANELBOARD TRIBUTION PANELBOARD RANSFORMER EOUS SYSTEMS PANEL OR CABINET: REFER TO

FRAMES AND TERMINALS. 28. ALL MOUNTING HARDWARE INCLUDING NUTS, BOLTS, SCREWS, WASHERS, ETC.

WITHOUT A RACEWAY, IT SHALL BE SUPPORTED NOT EXCEEDING INTERVALS OF 48' AND NOT MORE THAN 6" FROM THE CABINETS, BOXES, FITTINGS, OUTLETS, RACKS,

SHALL BE STAINLESS STEEL.

27. WHERE LOW VOLTAGE (CONTROL) CABLING IS ALLOWED TO BE INSTALLED

ELECTRICAL GENERAL NOTES

(GENERAL NOTES APPLICABLE TO ALL ELECTRICAL SHEETS)

CONTRACTOR SHALL EXAMINE NOT ONLY PLANS AND SPECIFICATIONS FOR ELECTRICAL AND INSTRUMENTATION BUT PLANS AND SPECIFICATIONS FOR OTHER

RELATED SECTIONS. VISIT THE SITE TO BECOME ACQUAINTED WITH ALL PROJECT CONDITIONS INCLUDING EXISTING CONDITIONS. EXECUTION OF CONTRACT IS EVIDENCE THAT THE CONTRACTOR HAS EXAMINED ALL DRAWINGS AND SPECIFICATIONS AND THAT ALL CONDITIONS OF INSTALLING THE WORK IN THIS SECTION ARE VERIFIED. LATE CLAIMS FOR LABOR AND MATERIALS REQUIRED DUE

TO DIFFICULTIES ENCOUNTERED, WHICH COULD HAVE BEEN FORESEEN HAD

MATERIALS AND WORK NOT SPECIFICALLY MENTIONED, SHOWN, OR CAN BE

WHEN SUBSTITUTING OTHER EQUIPMENT, MATERIALS, AND PRODUCTS THAN

4. REVIEW THE CONTRACT DOCUMENTS OF OTHER DIVISIONS, AND COORDINATE

SPECIFIED IN THE CONTRACT DOCUMENTS, INCLUDE IN PRICING ALL COSTS FOR

OTHER DESIGN CHANGES TO THE PROJECT (ALL DIVISIONS) WHICH WILL RESULT

ELECTRICAL AND CONTROL WORK WITH THE WORK OF OTHER DISCIPLINES TO

UPON COMPLETION OF THE WORK REQUIRED UNDER THIS CONTRACT, PROVIDE

TYPED UPDATED DIRECTORY WITHIN DOOR OF EACH AFFECTED PANELBOARD.

ALL MOUNTING HEIGHTS INDICATED ON DRAWINGS ARE TO CENTERLINE, UON.

IN AREAS HAVING FINISHED CEILINGS, LOCATE CEILING-MOUNTED ELECTRICAL

DEVICES AND FIXTURES ACCORDING TO ARCHITECTURAL REFLECTED CEILING

IN ELECTRICAL AND MECHANICAL EQUIPMENT SPACES. COORDINATE EXACT

10. DO NOT USE ANY LIGHTING FIXTURE AS A RACEWAY FOR CONDUCTORS NOT

11. CONNECT BATTERY-OPERATED EMERGENCY LIGHTING UNITS AND EXIT SIGNS

12. DO NOT INSTALL OUTLET BOXES BACK-TO-BACK IN NON-RATED PARTITIONS. OFFSET AND SEAL, SIMILAR TO REQUIREMENTS FOR RATED PARTITIONS, TO

HAVING BATTERY BACK-UP TO UNSWITCHED LEG OF LOCAL LIGHTING CIRCUIT IN

FAILURE OF CIRCUIT TRANSFERS UNIT FROM NORMAL TO EMERGENCY MODE,

13. COORDINATE ROUTING OF ALL LARGE CONDUITS (2" DIA AND LARGER) AND PULL BOX LOCATIONS WITH GENERAL CONTRACTOR PRIOR TO INSTALLATION TO AVOID CONFLICTS AND TO GUARANTEE REQUIRED CLEARANCE AND ACCESSIBILITY OF

14. COORDINATE WITH OWNER OR OWNER'S SELECTED VENDOR PRIOR TO ROUGH-IN

FOR EXACT LOCATIONS OF SPECIAL PURPOSE OUTLETS DEDICATED TO SPECIFIC

EQUIPMENT. VERIFY REQUIRED NEMA CONFIGURATION OF ALL SUCH OUTLETS.

16. INCLUDE GREEN-INSULATED GROUNDING CONDUCTOR SIZED PER 2002 NEC TABLE

250-122 WITH ALL BRANCH CIRCUIT CONDUCTORS SERVING LIGHTING FIXTURES,

RECEPTACLES, MECHANICAL OR OTHER DEVICES INSTALLED AT OR BELOW 8'-0".

. MATCH A.I.C. RATINGS AND OTHER CHARACTERISTICS OF EXISTING DEVICES IN

18. ALL WORK SHALL BE IN CONFORMANCE WITH THE NATIONAL ELECTRICAL CODE -LATEST EDITION ADOPTED BY INDIANA, THE INDIANA CODE AMENDMENT, LOCAL/MUNICIPAL CODE, AND THE AUTHORITIES HAVING JURISDICTION.

19. ALL CONNECTIONS TO EQUIPMENT SUBJECT TO MOVEMENT OR VIBRATION SHALL

20. ALL CONDUIT PENETRATIONS SHALL BE SEALED WITH APPROPRIATE CONDUIT

22. FIELD VERIFY LOCATIONS OF BUILDING EXPANSION JOINTS WHEN ROUTING

THE EXPANSION FITTINGS. EXPANSION FITTINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE NEC AND MANUFACTURERS WRITTEN RECOMMENDATION

23. FEEDERS FROM PANELBOARDS BACK TO MAIN SWITCHBOARD, BETWEEN AUTO TRANSFER SWITCHES AND THEIR SOURCES/LOADS, BETWEEN DRY TRANSFORMERS AND THEIR SOURCES/LOADS ARE NOT INDICATED. FEEDERS ARE PART OF THE

HOMERUNS SHALL NOT BE COMBINED IN A RACEWAY UNLESS SHOWN ON THE CONTRACT DRAWINGS, SINGLE PHASE BRANCH CIRCUIT HOMERUNS MAY BE

COMBINED AT THE CONTRACTORS DISCRETION NOT GREATER THAN (3) PHASE CONDUCTORS, NEUTRAL CONDUCTORS, AND A GROUNDING CONDUCTOR.

25. EACH SINGLE PHASE BRANCH CONDUCTOR SHALL HAVE A DEDICATED NEUTRAL

WORK, AND SHALL BE SIZED AS INDICATED ON THE LINE DIAGRAM.

26. ALL PENETRATIONS BELOW GRADE SHALL USE LINK SEALS.

21. ALL CABLE SIZES SHALL UTILIZE COPPER CONDUCTORS.

BE LIQUID TIGHT FLEXIBLE METAL CONDUIT, NOT LESS THAN 12" IN LENGTH, NOR

CONDUIT. ALL CONDUITS CROSSING EXPANSION JOINTS SHALL BE INSTALLED WITH

PANELBOARD WHEN ADDING BREAKERS TO EXISTING PANELBOARDS.

ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND NEC SUCH THAT

THAT DIALS, GAUGES, METERS, ETC. ARE PROPERLY ILLUMINATED.

LOCATIONS OF LIGHTING FIXTURES WITH CONDUIT BANKS, DUCTWORK, PIPING, STRUCTURE, SUPPORTS, AND OTHER OBSTRUCTIONS. LOCATE FIXTURES SUCH

PLAN. DO NOT INSTALL CEILING-MOUNTED SMOKE DETECTORS WITHIN 4 FEET OF

PROVIDE LIGHTING FIXTURES COMPATIBLE WITH CEILING CONSTRUCTION.

COORDINATE WITH ARCHITECTURAL ROOM FINISH SCHEDULES.

THE DRAWINGS ARE DIAGRAMMATIC AND ARE NOT INTENDED TO INCLUDE EVERY

DETAIL OF REQUIRED CONSTRUCTION, EQUIPMENT, AND MATERIALS. PROVIDE ALL

REASONABLY INFERRED ON THE DRAWINGS BUT WHICH ARE NECESSARY TO FULLY

EXAMINATIONS BEEN MADE WILL NOT BE RECOGNIZED.

COMPLETE THE WORK.

HVAC SUPPLY DIFFUSERS.

SERVING THAT PARTICULAR FIXTURE.

CAUSING LAMPS TO RE-ENERGIZE.

MINIMIZE SOUND TRANSMISSION.

ELECTRICAL AND OTHER SYSTEMS.

GREATER THAN 36" IN LENGTH.

SEALING MATERIAL.

BACK TO THE PANEL.

FROM USE OF THE SUBSTITUTED ITEM(S).

AVOID CONFLICTS AND INTERFERENCE.

LEAVE "SPARE" BREAKERS IN "OFF" POSITION.

29. MOUNT JUNCTION BOXES AND DISCONNECT SWITCHES ON STAINLESS STEEL

30. ALL UNISTRUT, MOUNTING BRACKETS AND SUPPORTING STRUCTURES SHALL BE

31. DO NOT MIX CONTROL AND POWER CONDUCTORS IN THE SAME CONDUIT. DO NOT MIX DISCRETE AND ANALOG CONTROL CONDUCTORS IN THE SAME CONDUIT.

32. ADJUSTABLE SPEED DRIVES (ASD) LINE AND LOAD WIRE SHALL BE RUN IN SEPARATE RACEWAYS.

33. CONTRACTOR SHALL COORDINATE WITH HEAT TRACE MANUFACTURER DURING BIDDING AND CONSTRUCTION AND SHALL PROVIDE ALL CONDUIT, WIRING, AND CIRCUITS AS REQUIRED. HEAT TRACE SHALL BE PROVIDED/INSTALLED COMPLETE.

ALL HEAT TRACE IS REQUIRED TO BE GFI PROTECTED.

34. CONTRACTOR SHALL NOT COMBINE POWER FEEDS FOR THREE PHASE LOADS. 35. THE BELOW LOCATIONS ARE WHERE GFCI OUTLETS ARE REQUIRED:

35.1. KITCHENS: ALL KITCHEN OUTLETS. BATHROOMS: GFCI OUTLETS ARE REQUIRED IN BATHROOMS NEAR THE SINK. GARAGES: GFCI OUTLETS ARE REQUIRED IN GARAGES THAT HAVE SINKS. 35.4. BASEMENTS: UNFINISHED BASEMENTS REQUIRE AT LEAST ONE GFCI OUTLET. 35.5. OUTDOOR SPACES: GFCI OUTLETS ARE REQUIRED IN OUTDOOR AREAS THAT

ARE ACCESSIBLE OR AT GRADE LEVEL. 35.6. LAUNDRY ROOMS: ALL LAUNDRY ROOM OUTLETS. CRAWL SPACES: GFCI OUTLETS ARE REQUIRED IN CRAWL SPACES WHERE

MECHANICAL EQUIPMENT IS LOCATED.

35.8. UTILITY ROOMS: ALL UTILITY ROOM OUTLETS.

36. LIMIT CAT 6E INSTALLATION TO 230' MAXIMUM DISTANCE. CONTRACTOR SHALL FURNISH AND INSTALL FIBER OPTIC CABLE AND MEDIA CONVERTERS IF CONDUIT ROUTING EXCEEDS CAT 6E LIMITS.

### **LIFT STATION #2** SITE PLAN

SCALE: 1"=10'-0"

### **ELECTRICAL DEMOLITION NOTES:**

- 1. CONTRACTOR SHALL TAKE INTO CONSIDERATION EXISTING BURIED EQUIPMENT WHEN PLANNING THE INSTALLATION OF THE NEW EQUIPMENT OUTLINED IN THIS PROJECT. CONTRACTOR SHALL VISIT THE SITE TO BECOME ACQUAINTED WITH ALL THE PROJECT CONDITIONS INCLUDING THE EXISTING CONDITIONS. EXECUTION OF THE CONTRACT IS EVIDENCE THAT THE CONTRACTOR HAS EXAMINED ALL DRAWINGS AND SPECIFICATIONS AND THAT ALL CONDITIONS OF INSTALLING THE WORK IN THIS SECTION ARE VERIFIED. CLAIMS FOR LABOR, MATERIAL, OR TIME EXTENSIONS REQUIRED DUE TO DIFFICULTIES ENCOUNTERED, WHICH COULD HAVE BEEN FORESEEN HAD EXAMINATIONS BEEN MADE, WILL NOT BE RECOGNIZED.
- 2. ITEMS TO BE DEMOLISHED, REMOVED, AND LAWFULLY DISPOSED OF COMPLETE TO ACCOMMODATE IMPROVEMENTS (THIS IS NOT INTENDED TO BE ALL INCLUSIVE, MERELY A REFERENCE). CONTRACTOR SHALL PERFORM ANY AND ALL DEMOLITION, REMOVAL, AND DISPOSAL ACTIVITIES AS REQUIRED FOR COMPLETE AND OPERATIONAL FACILITIES/INSTALLATIONS. REQUIRED DEMOLITION FOR SMALL DIAMETER PIPING, CONDUIT, ETC. NOT SHOWN ON THIS SHEET FOR CLARITY.
- DEMO ALL EXISTING ASSOCIATED ELECTRICAL AND CONTROLS. REMOVE ALL ELECTRICAL AND CONTROL WIRING BACK TO ITS SOURCE AND FURNISH TO OWNER FOR SALVAGE. REMOVE CONDUIT TO 12" BELOW GRADE AND CAP.
- OWNER SHALL HAVE FIRST RIGHT OF REFUSAL FOR ALL DEMOLISHED EQUIPMENT BEFORE CONTRACTOR DISPOSES OF EQUIPMENT. AT CONTRACTORS DISCRETION DURING CUT OVER, COORDINATE WITH UTILITY OR USE EMERGENCY GENERATOR TO MAINTAIN OPERATION OF LIFT STATION. CONTRACTOR RESPONSIBLE FOR ALL COSTS.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL LABOR AND MATERIAL REQUIRED FOR NEW ELECTRICAL SERVICE TO THE LIFT STATION NOT PROVIDED BY THE UTILITY, INCLUDING BUT NOT LIMITED TO CONDUIT, WIRE AND CONCRETE PAD FOR TRANSFORMER IF PAD MOUNT TRANSFORMER IS REQUIRED.



INDICATES PHOTO NUMBER AND DIRECTION OF PHOTO (PHOTOS TAKEN BY COMMONWEALTH ENGINEERS, INC.)

### **ELECTRICAL INSTALLATION NOTES:**

- THE PUMP STATION WET WELL IS CLASSIFIED AS CLASS 1, DIVISION 1, GROUP D AREA PER NFPA 820. THE AREA WHICH EXTENDS TO 18" ABOVE THE PUMP STATION TOP OF SLAB AND EXTENDS 3' BEYOND ALL SIDES OF THE HATCH IS A CLASS 1, DIVISION 2 HAZARDOUS LOCATION. ANY EQUIPMENT LOCATED WITHIN THE CLASSIFIED AREA SHALL BE UL LISTED FOR THAT AREA. ALL WIRING METHODS SHALL CONFORM TO THE REQUIREMENTS OF NEC ARTICLE 500, 501 AND 502.
- THE PUMP STATION VALVE VAULT IS CLASSIFIED AS CLASS 1, DIVISION 2, GROUP C AND D AREAS PER NFPA 820. ANY EQUIPMENT LOCATED WITHIN THE CLASSIFIED AREA SHALL BE UL LISTED FOR THAT AREA. ALL WIRING METHODS SHALL CONFORM TO THE REQUIREMENTS OF NEC ARTICLE 500, 501 AND 502.



**PHOTO #1** 



**PHOTO #3** 

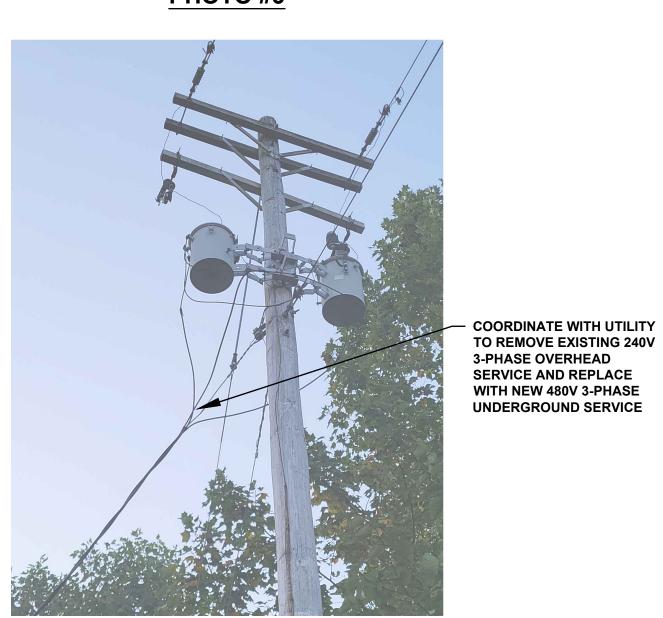




PHOTO #2



PHOTO #4

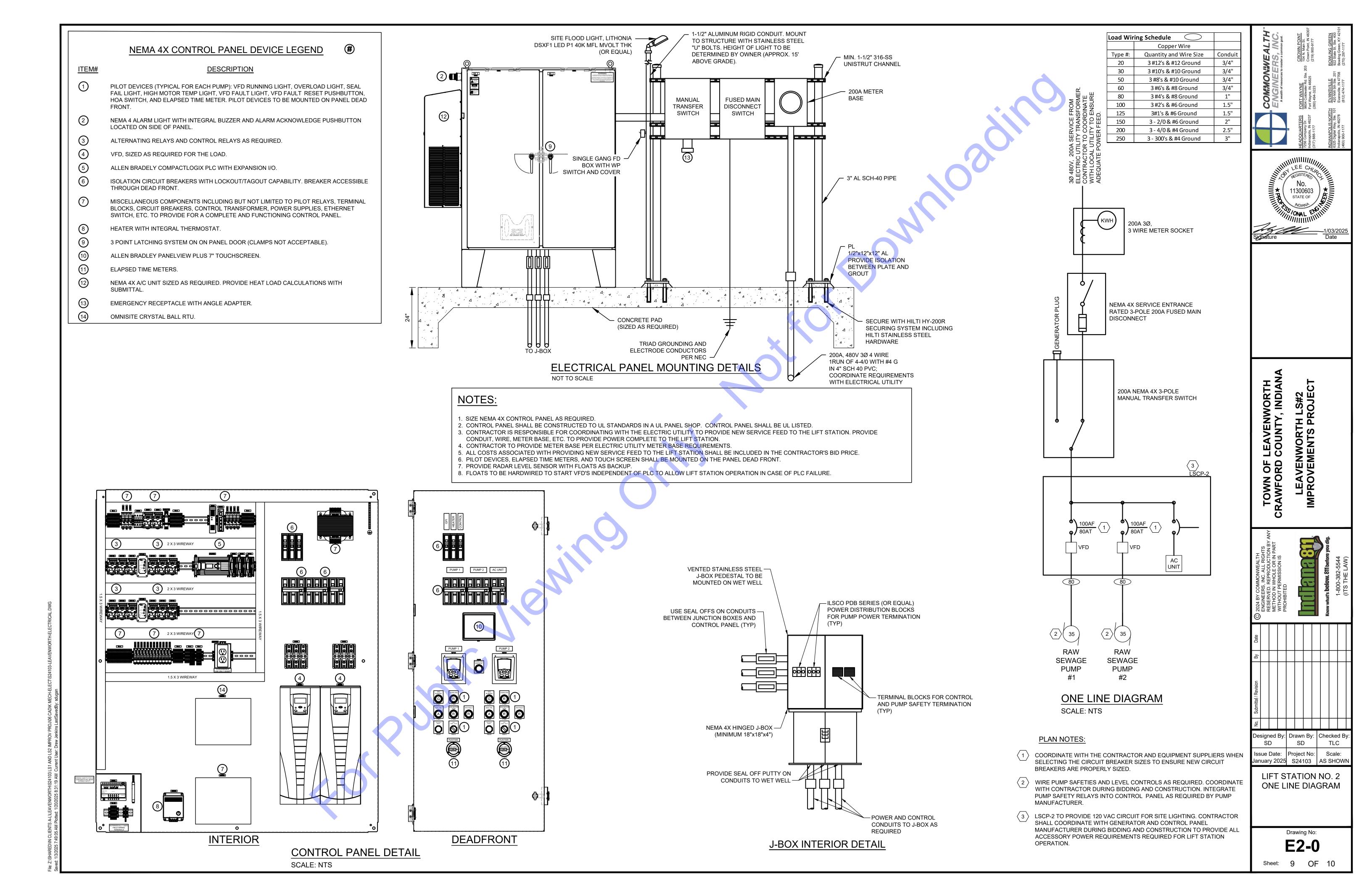
OWN OF LEAVENWORTH AWFORD COUNTY, INDIANA LEAVENWORTH LS#2
MPROVEMENTS PROJECT

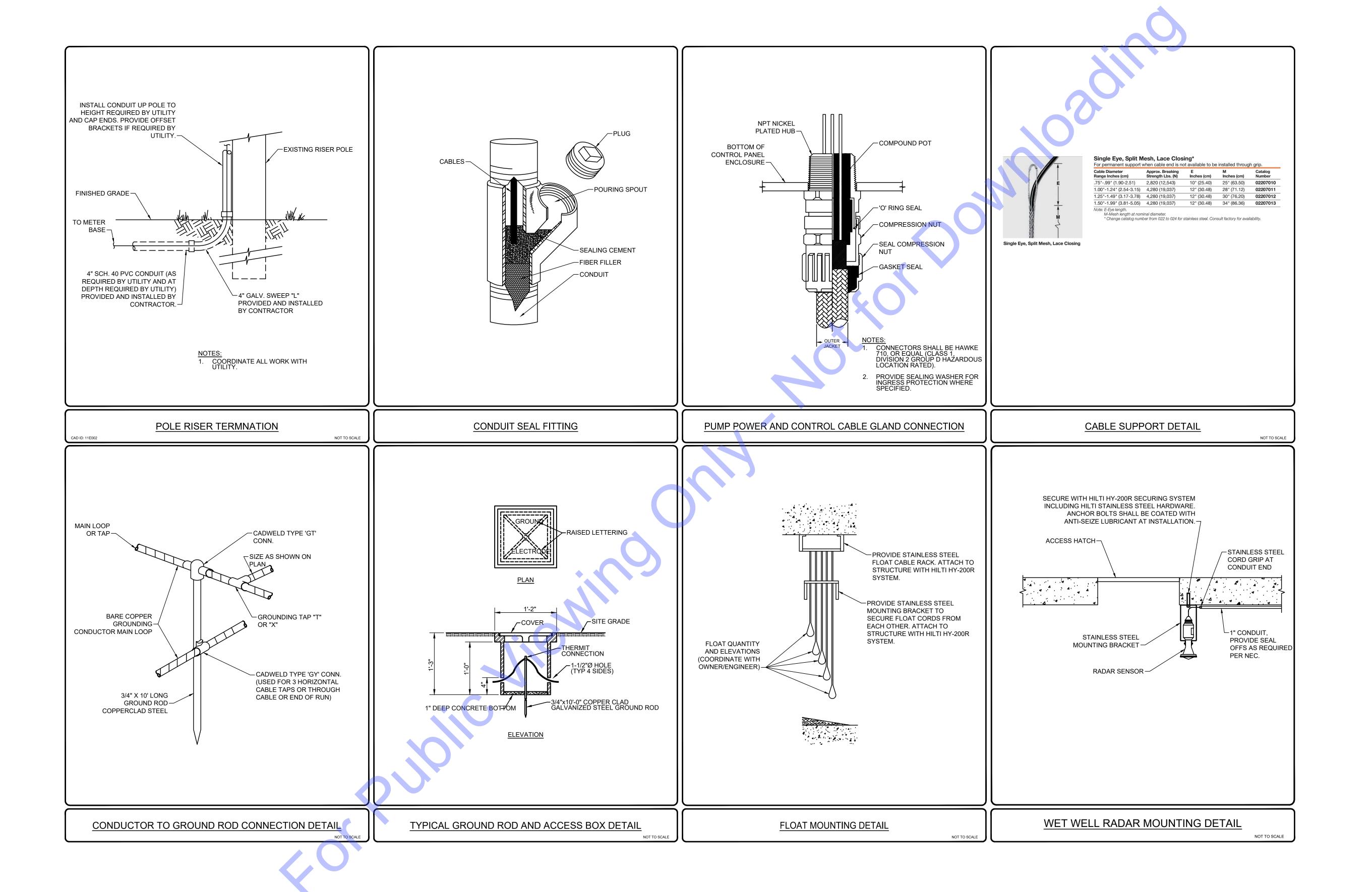
SD ssue Date: Project No: Scale:

LIFT STATION NO. 2 ELECTRICAL SITE PLAN

lanuary 2025 | S24103 | AS SHOWN

PHOTO #5





TOWN OF LEAVENWORTH
AWFORD COUNTY, INDIANA
LEAVENWORTH LS#2

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Know what's below. 811 before you dig.

1-800-382-5544

(ITS THE LAW)

Designed By: SD SD TLC

Issue Date: Project No: Scale:
January 2025 S24103 AS SHOWN

ELECTRICAL DETAILS

E3-0

Sheet: 10 OF 10