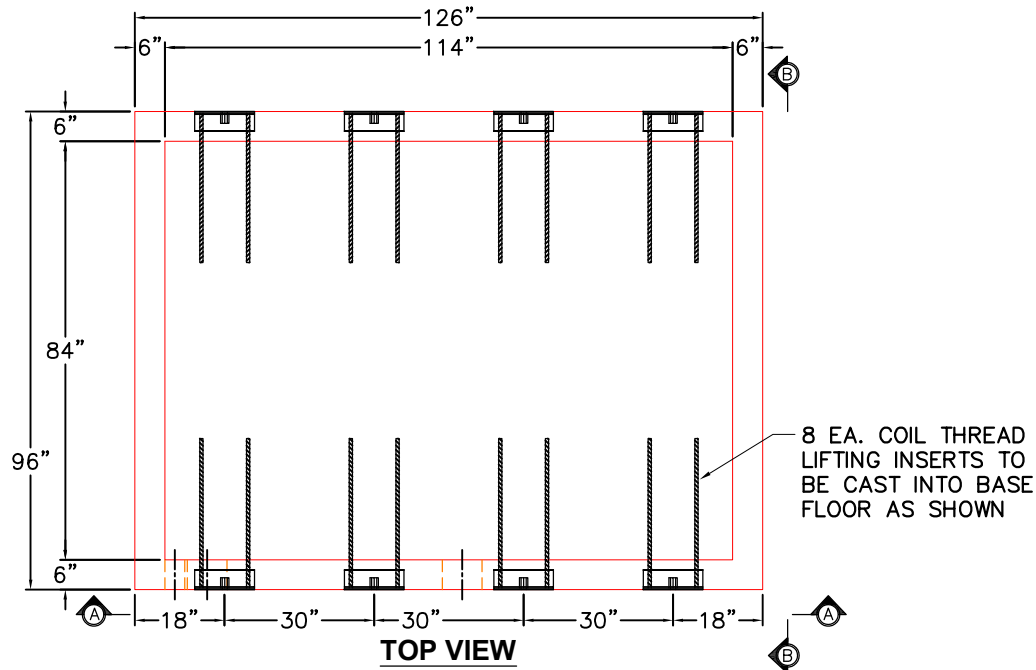
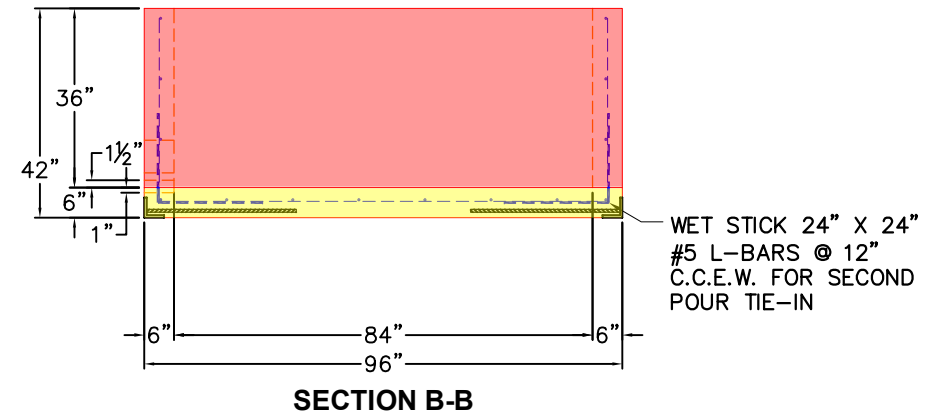
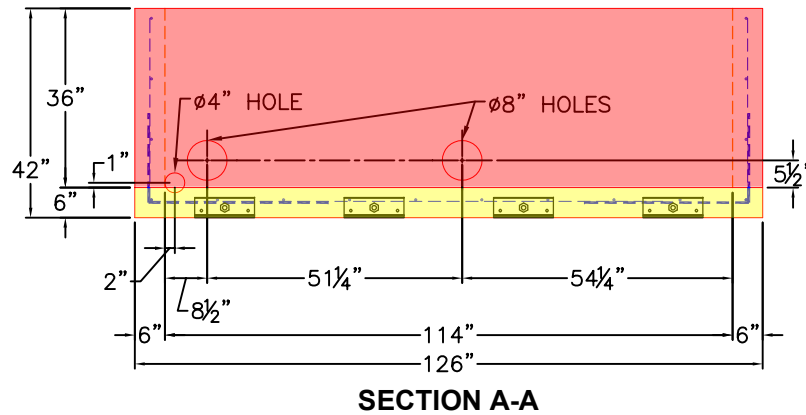




GENERAL NOTES:

1. MANUFACTURED TO ASTM C-913 (LATEST REVISION).
2. CONCRETE: 4,000 PSI AT 28 DAYS.
3. REINFORCING:
WALLS/FLOOR: #5 BAR @ 12" C.C.E.W. (GRADE 60)
2" MIN. REBAR CLEARANCE (TYP.)
4. WEIGHT: TOTAL = 13,647 LBS.
FIRST POUR = 6,090 LBS.
SECOND POUR = 7,557 LBS.
5. 8 EA. COIL THREAD LIFTING INSERTS TO BE CAST INTO BASE.
6. PRE-ASSEMBLY OF INTERNAL COMPONENTS TO BE PERFORMED BY ICAST.

First Pour Drawing



PRODUCTION WORK ORDER



QUALITY CONTROL CHECKLIST

- ☐ ALL DIMENSIONS CORRECT.
- ☐ LIFTERS INSTALLED.
- ☐ OPENING CENTERED.
- ☐ REINFORCING CORRECT.
- ☐ SURFACE QUALITY ACCEPTABLE.
- ☐ EDGES CHAMFERED.
- ☐ ALL PATCHWORK ACCEPTABLE.

PRODUCT I.D.: BX084114-06W06-VF

PRODUCT VIEW: RIGHT SIDE UP

PLANT: BEAVER DAM, KY.

WEIGHT: 13,647 LBS.

TOP SECTION JOINT: FLAT

BASE SECTION JOINT: N/A

QC CHECK INITIALS:

DESCRIPTION: 86" X 114" X 36" TALL VAULT BASE

CUSTOMER: ENDESOL

PROJECT: FREE HILL BPS

STRUCTURE: QL1

ORDER NO: 26-3184

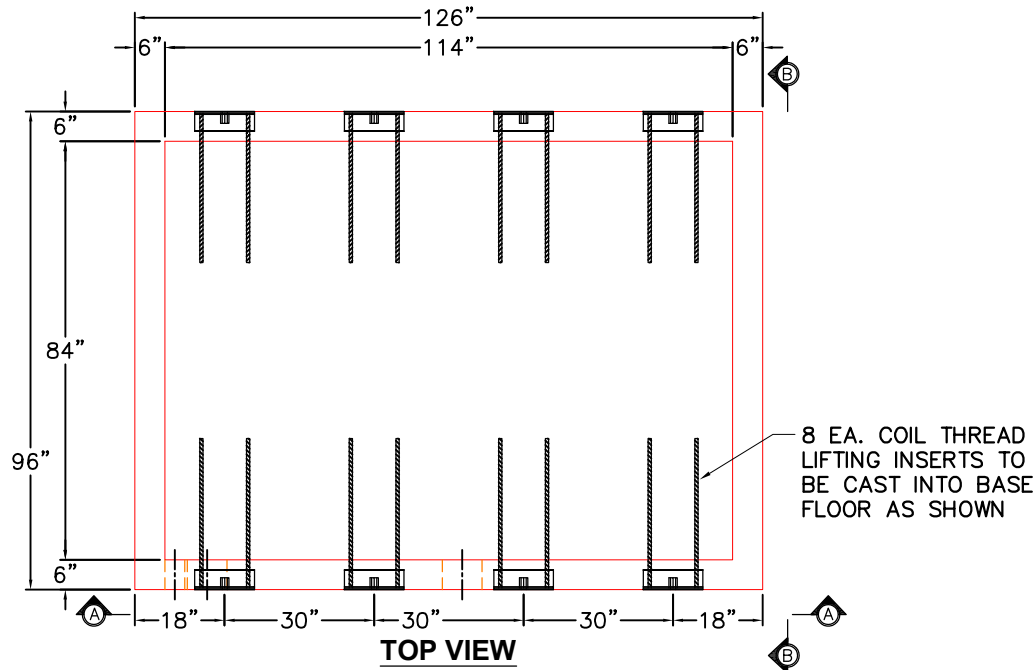
PC: E. BRADLEY

DRAWING: S. FELLETER

DATE: 8/11/26

SCALE: NTS

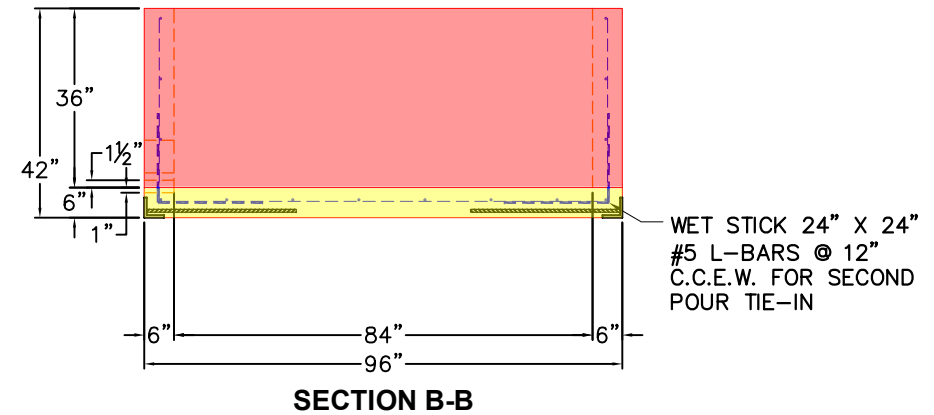
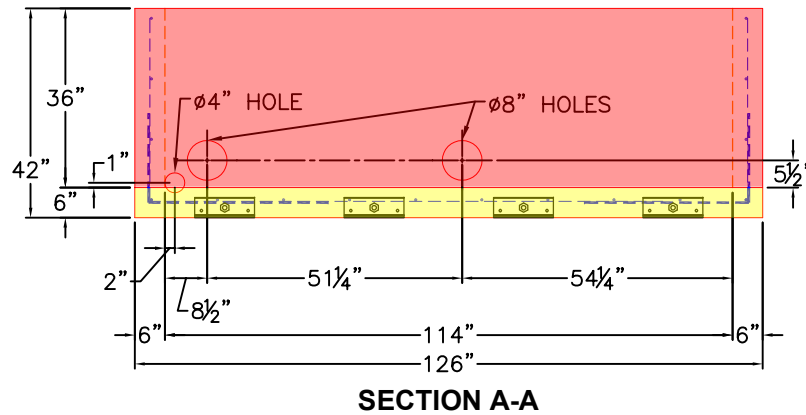
PG. 1 of 1



GENERAL NOTES:

1. MANUFACTURED TO ASTM C-913 (LATEST REVISION).
2. CONCRETE: 4,000 PSI AT 28 DAYS.
3. REINFORCING:
WALLS/FLOOR: #5 BAR @ 12" C.C.E.W. (GRADE 60)
2" MIN. REBAR CLEARANCE (TYP.)
4. **WEIGHT: TOTAL = 13,647 LBS.**
FIRST POUR = 6,090 LBS.
SECOND POUR = 7,557 LBS.
5. 8 EA. COIL THREAD LIFTING INSERTS TO BE CAST INTO BASE.
6. PRE-ASSEMBLY OF INTERNAL COMPONENTS TO BE PERFORMED BY ICAST.

Second Pour Drawing



PRODUCTION WORK ORDER

QUALITY CONTROL CHECKLIST

- ☐ ALL DIMENSIONS CORRECT.
- ☐ LIFTERS INSTALLED.
- ☐ OPENING CENTERED.
- ☐ REINFORCING CORRECT.
- ☐ SURFACE QUALITY ACCEPTABLE.
- ☐ EDGES CHAMFERED.
- ☐ ALL PATCHWORK ACCEPTABLE.

PRODUCT I.D.: BX084114-06W06-VF

PRODUCT VIEW: RIGHT SIDE UP

PLANT: BEAVER DAM, KY.

WEIGHT: 13,647 LBS.

TOP SECTION JOINT: FLAT

BASE SECTION JOINT: N/A

QC CHECK INITIALS:

DESCRIPTION: 86" X 114" X 36" TALL VAULT BASE

CUSTOMER: ENDESOL

PROJECT: FREE HILL BPS

STRUCTURE: QL1

ORDER NO: 26-3184

PC: E. BRADLEY

DRAWING: S. FELLETER

DATE: 8/11/26

SCALE: NTS

PG. 1 of 1



4

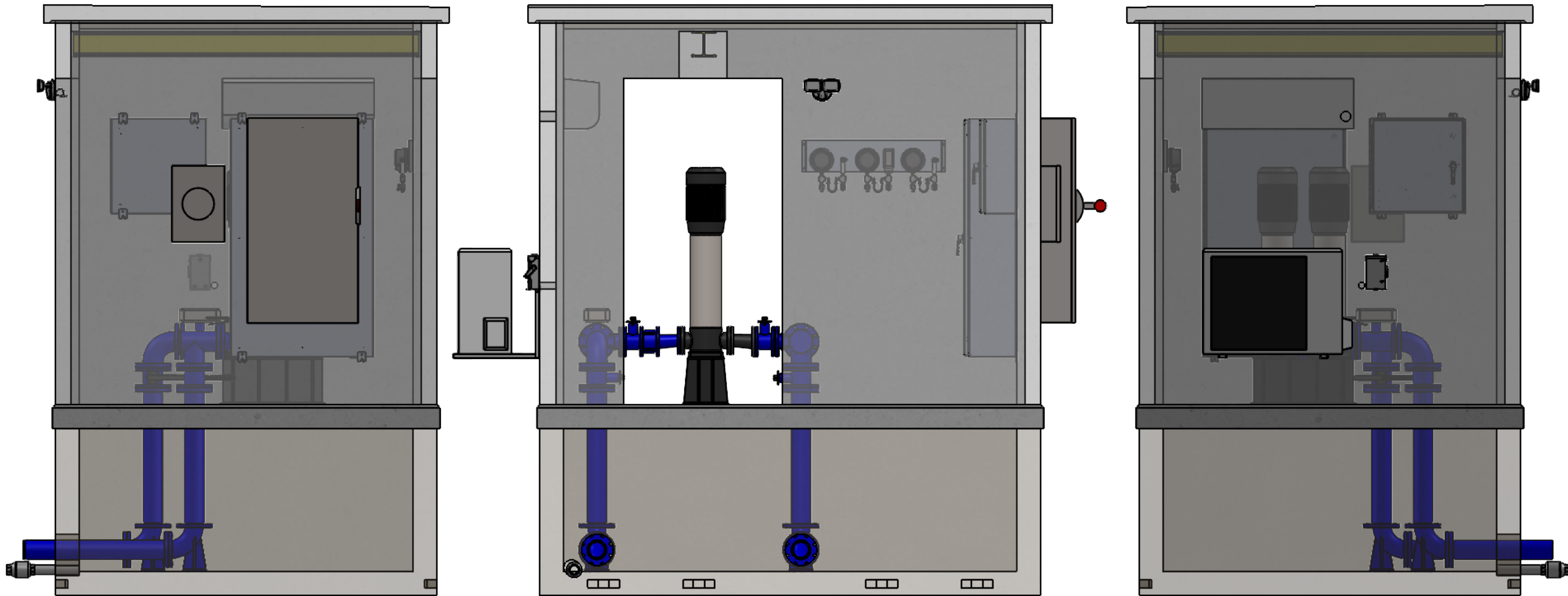
3

2

1

B

B



A

A

All Piping and Fittings above floor slab to be coated with Sherwin Williams Duraplate 235 "4056 Blueprint"
Building interior walls to be R-12 Insulated stud wall faced with FRP Coated Plywood Wall Panels
Building Equiped with Painted Steel Doors. (Not shown for clarity)
Estimated Total Weight: 35,350 lbs.

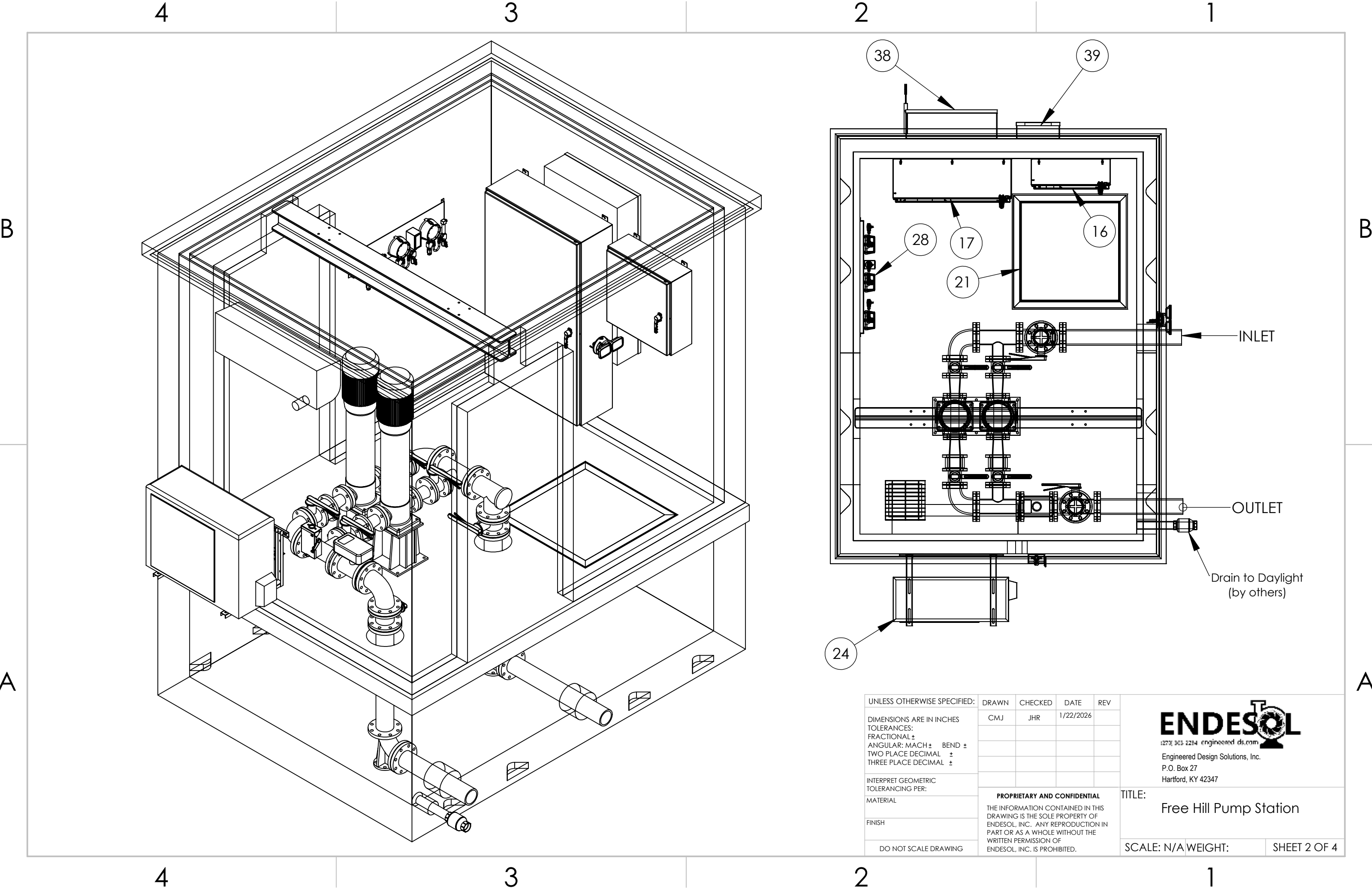
UNLESS OTHERWISE SPECIFIED:	DRAWN	CHECKED	DATE	REV	 Engineered Design Solutions, Inc. P.O. Box 27 Hartford, KY 42347		
DIMENSIONS ARE IN INCHES	CMJ	JHR	1/22/2026				
TOLERANCES:							
FRACTIONAL ±							
ANGULAR: MACH ± BEND ±							
TWO PLACE DECIMAL ±					TITLE: Free Hill Pump Station SCALE: N/A WEIGHT: SHEET 1 OF 4		
THREE PLACE DECIMAL ±							
INTERPRET GEOMETRIC							
TOLERANCING PER:							
MATERIAL							
FINISH	PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF ENDESOL, INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF ENDESOL, INC. IS PROHIBITED.						
DO NOT SCALE DRAWING							

4

3

2

1



UNLESS OTHERWISE SPECIFIED:	DRAWN	CHECKED	DATE	REV
DIMENSIONS ARE IN INCHES	CMJ	JHR	1/22/2026	
TOLERANCES:				
FRACTIONAL ±				
ANGULAR: MACH ±				
BEND ±				
TWO PLACE DECIMAL ±				
THREE PLACE DECIMAL ±				
INTERPRET GEOMETRIC	PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF ENDESOL, INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF ENDESOL, INC. IS PROHIBITED.			
TOLERANCING PER:				
MATERIAL				
FINISH				
DO NOT SCALE DRAWING				

ENDESOL
(270) 363-2234 engineered.ds.com

Engineered Design Solutions, Inc.
P.O. Box 27
Hartford, KY 42347

TITLE:
Free Hill Pump Station

SCALE: N/A WEIGHT:

SHEET 2 OF 4

4

3

2

1

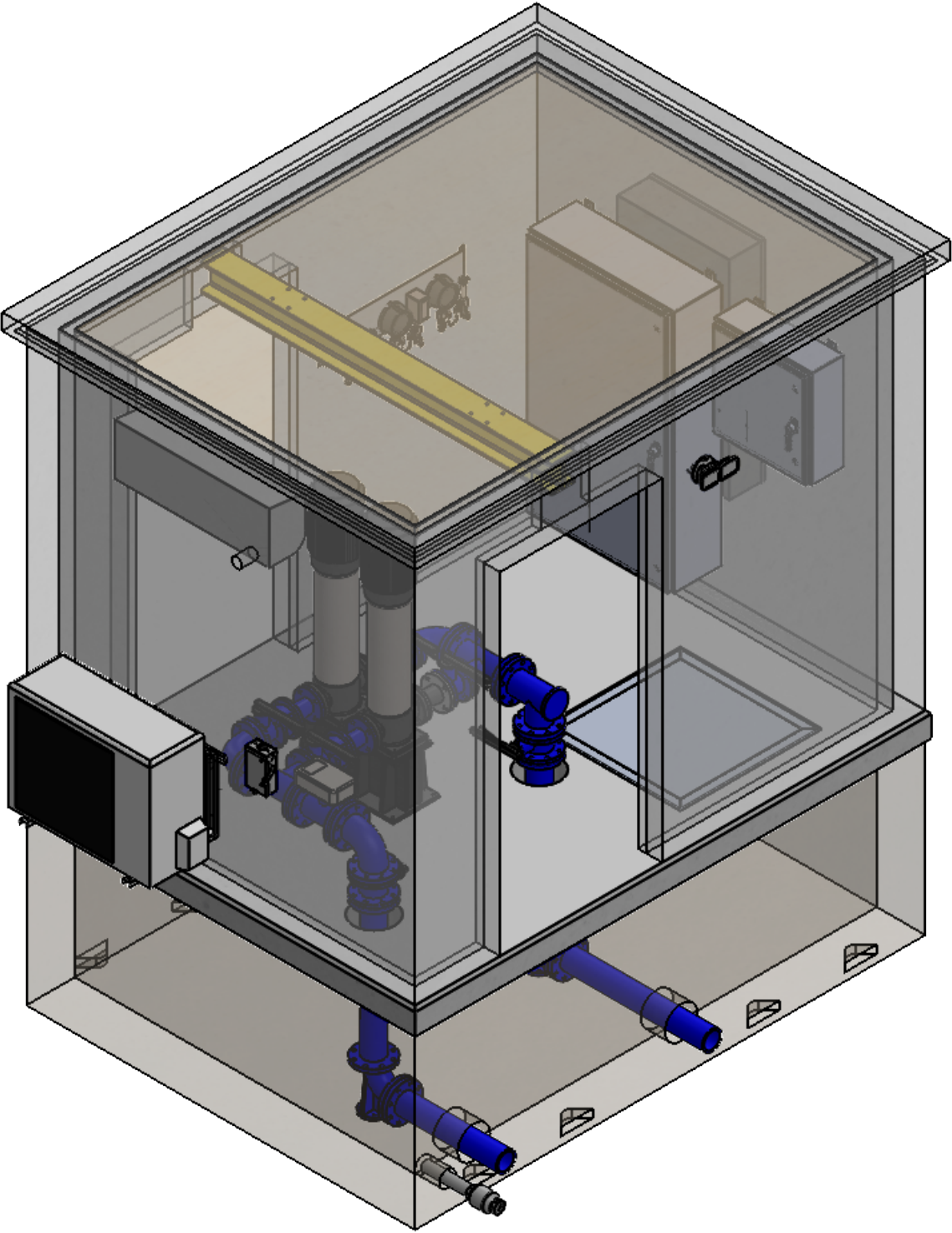
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	EVMSUG32-4-2F1500D3S	EBARA Vertical Multistage Pump	2
2	Red. ECC., 3 x 2.5in, CLASS ASME 150, FF	PROCO_3 x 2 Eccentric Reducer 150#	2
3	4 x 3 Reducing 90 Bend		2
4	TEE R.O.O., On The Run 4in x Outlet 3in, CLASS ASME 150, RF	4 x 4 x 3 Reducing Tee 150#	2
5	4x4_SD	6"x6" Suction Diffuser	1
6	Red. ECC., 3 x 2.5in, CLASS ASME 150, FF	3 x 2 Eccentric Reducer 150#	2
7	3_WCV	3 Inch Wafer Check Valve	2
8	3 Inch FBVLV	3 Inch Flanged Butterfly Valve with Lever	4
9	4 Inch KRWF3K	4 Inch Krohne Waterflux 3000 Mag Meter	1
10	4_90_EB	4 Inch 90 Degree Elbow	1
11	8x10_BASE	8'x10'x6" Building Base Slab	1
12	8x10_WALL	8'x10'x8' Concrete Walls	1
13	8x10x3_VV	7'x9'x3' Concrete Vault	1
14	ELL. RB, NPS 4in, CLASS ASME 150 90 DEG, FF		2
18	4_FBVLV	4 Inch Flanged Butterfly Valve with Lever	2
19	4_FxPE_DIP	4 Inch Flange x Plain End DIP	2
20	FPB	Fabricated Pump Base	1
21	S1R3030	30 x 30 Single Door Angle Frame Hatch	1
22	Indoor Unit Split System	9K BTU Indoor Unit	1
23	Wall Condensor Bracket	Wall Mount	1
24	Outdoor Unit Split System	9K BTU Split System Outdoor Unit	1
25	1459K441	Adjustable-Head Security Light	1
26	4_FxPE_DIP	4 Inch Flange x Plain End DIP	1
27	4_FxPE_DIP	4 Inch Flange x Plain End DIP	1
28	3 Gauge Plate	3 Gauge 2 Transducer 1 Switch	1
32	8x10 Roof	8'x10' Concrete Roof Slab	1
33	7524K24	Durable Disconnect Switch	1
35	46835K57	Inline Backwater Valve Burried in Crushed Stone	1
37	6849T226	Cast Iron Grate	1
38	TDT3324R	Double Throw 200A Fusible Nema 1 & 3R	1
39	200_3R_TN	200A Meter Base Nema 3R for Tennessee	1
40	I-Beam 7ft_3in	Monorail Trolley Beam	1

4

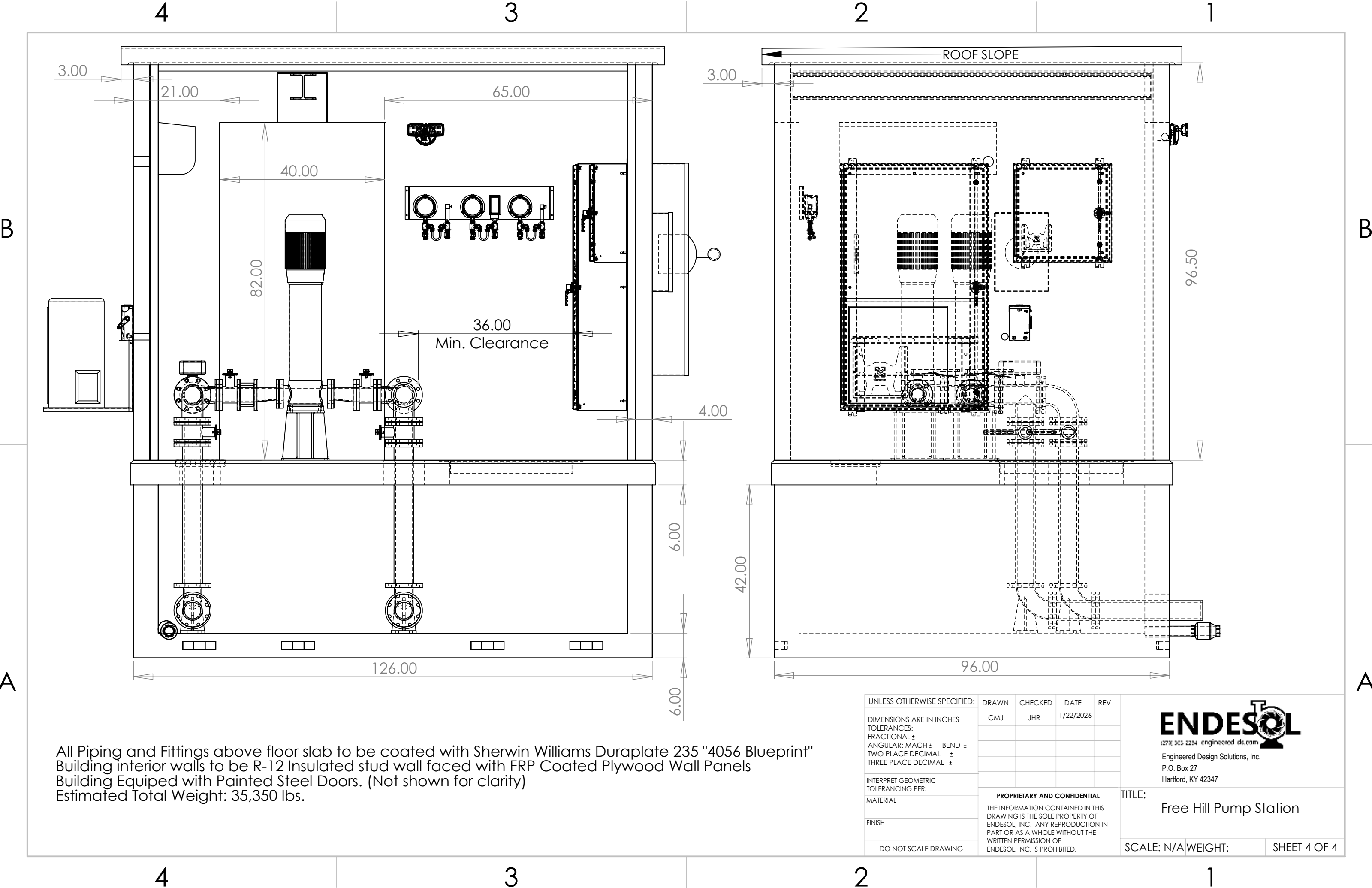
3

2

1



UNLESS OTHERWISE SPECIFIED:	DRAWN	CHECKED	DATE	REV	 Engineered Design Solutions, Inc. P.O. Box 27 Hartford, KY 42347	
DIMENSIONS ARE IN INCHES	CMJ	JHR	1/22/2026			
TOLERANCES:						
FRACTIONAL ±						
ANGULAR: MACH ± BEND ±						
TWO PLACE DECIMAL ±					TITLE: Free Hill Pump Station	
THREE PLACE DECIMAL ±						
INTERPRET GEOMETRIC TOLERANCING PER:	PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF ENDESOL, INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF ENDESOL, INC. IS PROHIBITED.					
MATERIAL						
FINISH						
DO NOT SCALE DRAWING	SCALE: N/A WEIGHT:				SHEET 3 OF 4	



All Piping and Fittings above floor slab to be coated with Sherwin Williams Duraplate 235 "4056 Blueprint"
Building interior walls to be R-12 Insulated stud wall faced with FRP Coated Plywood Wall Panels
Building Equiped with Painted Steel Doors. (Not shown for clarity)
Estimated Total Weight: 35,350 lbs.

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DIMENSIONS ARE IN INCHES	CMJ	JHR	1/22/2026		
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THREE PLACE DECIMAL ±					
INTERPRET GEOMETRIC					
TOLERANCING PER:					
MATERIAL					
FINISH	PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF ENDESOL, INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF ENDESOL, INC. IS PROHIBITED.				SCALE: N/A WEIGHT:
DO NOT SCALE DRAWING					