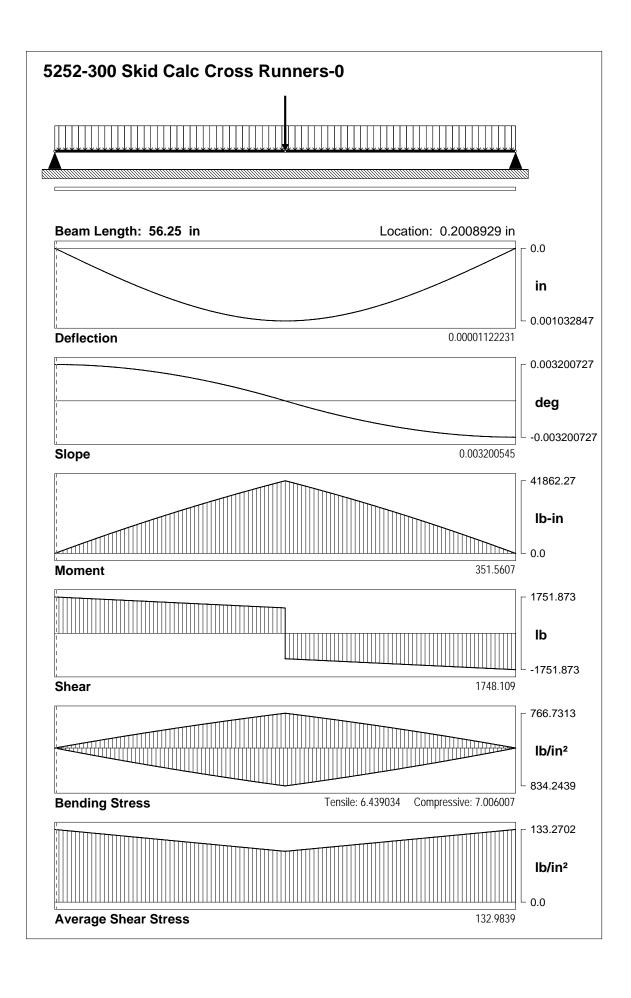
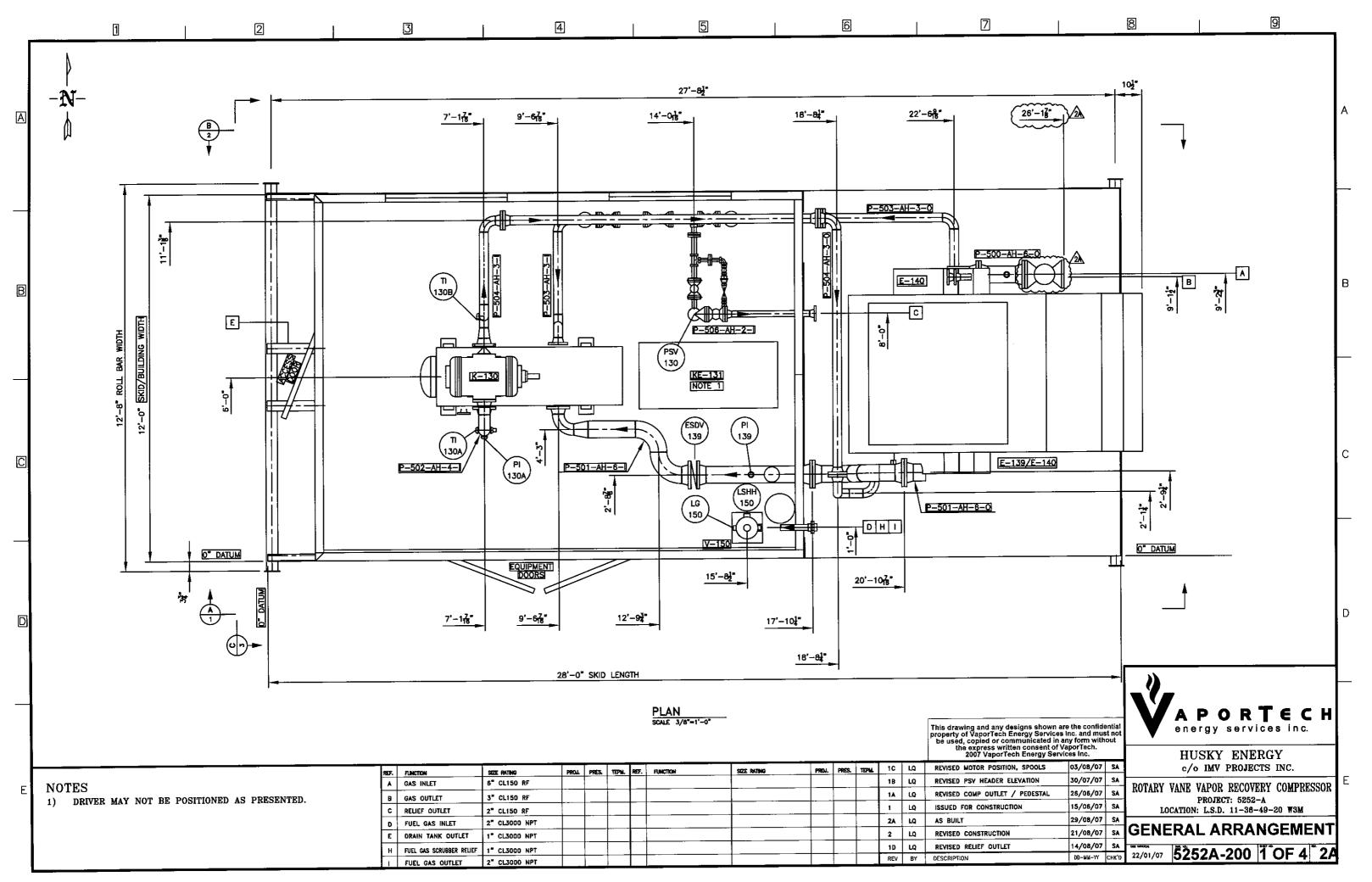


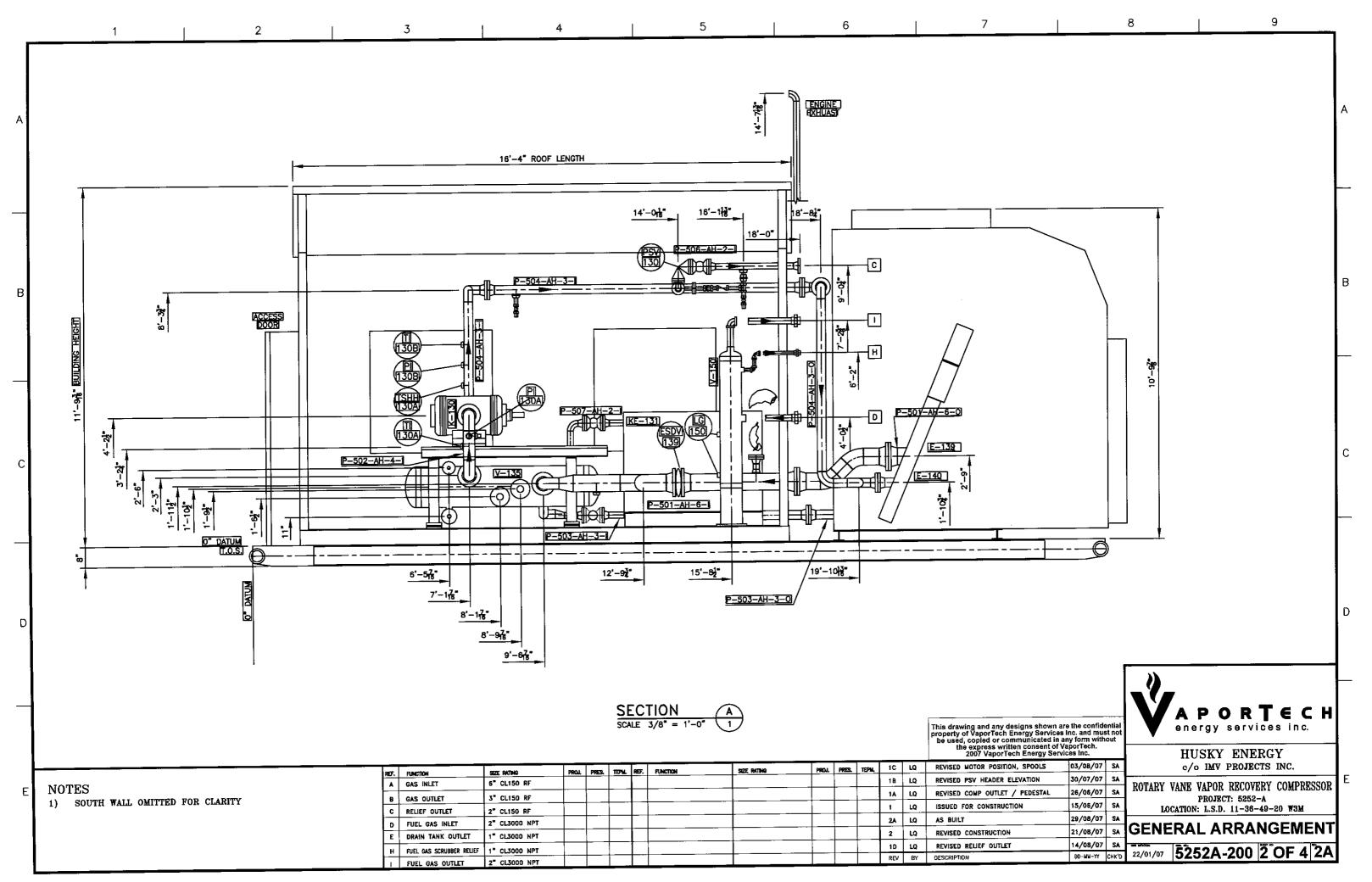
```
Analysis based on worst case, where the two (2) skid base runners support
  all substantial loads (over 400 lbs.).
BEAM LENGTH = 336.0 in
MATERIAL PROPERTIES
  Base Runner:
 Modulus of elasticity = 30000000.0 lb/in<sup>2</sup>
  Stress limit = 30000.0 lb/in<sup>2</sup>
 Density = 0.284 \text{ lb/in}^3
CROSS-SECTION PROPERTIES
  Base Runners (2):
 Moment of inertia = 530.6567 in<sup>4</sup>
 Top height = 7.41315 in
  Bottom height = 6.813228 in
 Area = 22.27478 in^2
EXTERNAL CONCENTRATED FORCES
  V-135 (16"): 650.0 lb at 102.0 in
 K-120: 1685.0 lb at 102.0 in
 Engine: 1800.0 lb at 171.0 in Cooler: 5000.0 lb at 260.0 in
UNIFORMLY DISTRIBUTED FORCES
 Piping/Electrical: 15.0 lb/in at 19.0 over 211.0 in
LIMITS - ABSOLUTE
  Design Criteria:
  Tensile = 14000.0 \text{ lb/in}^2
  Compressive = 14000.0 lb/in<sup>2</sup>
  Shear = 10000.0 \text{ lb/in}^2
 Deflection = 0.75 in
SELF WEIGHT LOADS ***
 Load #1: 6.326039 lb/in at 0.0 over 336.0 in
          Total self weight = 2125.549 lb
SUPPORT REACTIONS ***
 Rollbar 1: Simple at 0.0 in
 Reaction Force =-6696.071 lb
  Rollbar 2: Simple at 336.0 in
 Reaction Force =-7729.479 lb
MAXIMUM DEFLECTION ***
  0.5251676 in at 169.9076 in
  Safety Factor =1.428
  Safety Margin = 0.2248323 in
MAXIMUM BENDING MOMENT ***
   718143.3 lb-in at 171.0 in
MAXIMUM SHEAR FORCE ***
  -7729.479 lb at 336.0 in
MAXIMUM STRESS ***
  Tensile = 9220.413 \text{ lb/in}^2
                                  Safety Factor =1.518
                                 Safety Factor =1.395
  Compressive = 10032.29 lb/in<sup>2</sup>
  Shear (Avg) = 347.0058 \text{ lb/in}^2
                                   Safety Factor =28.818
```

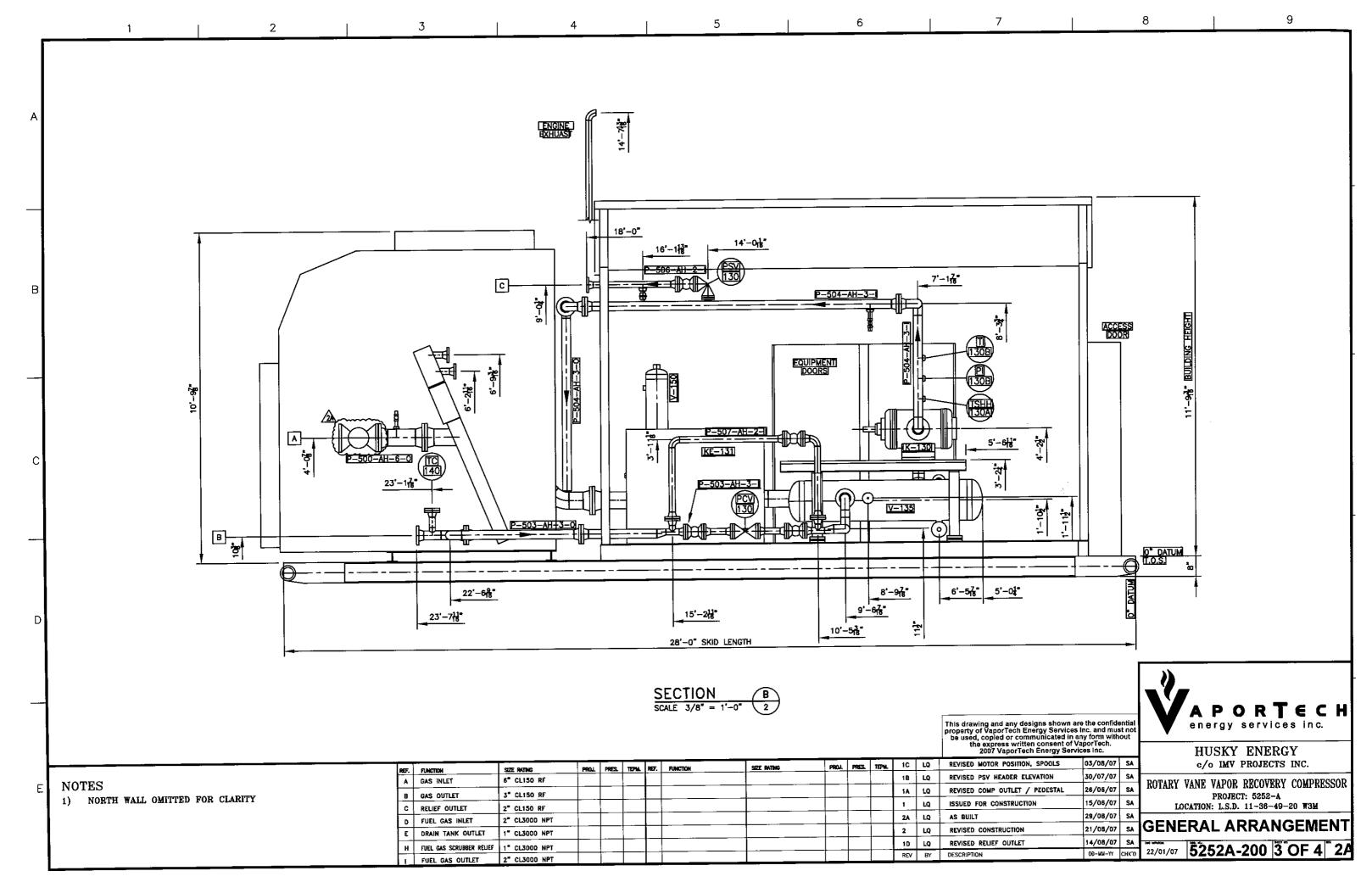


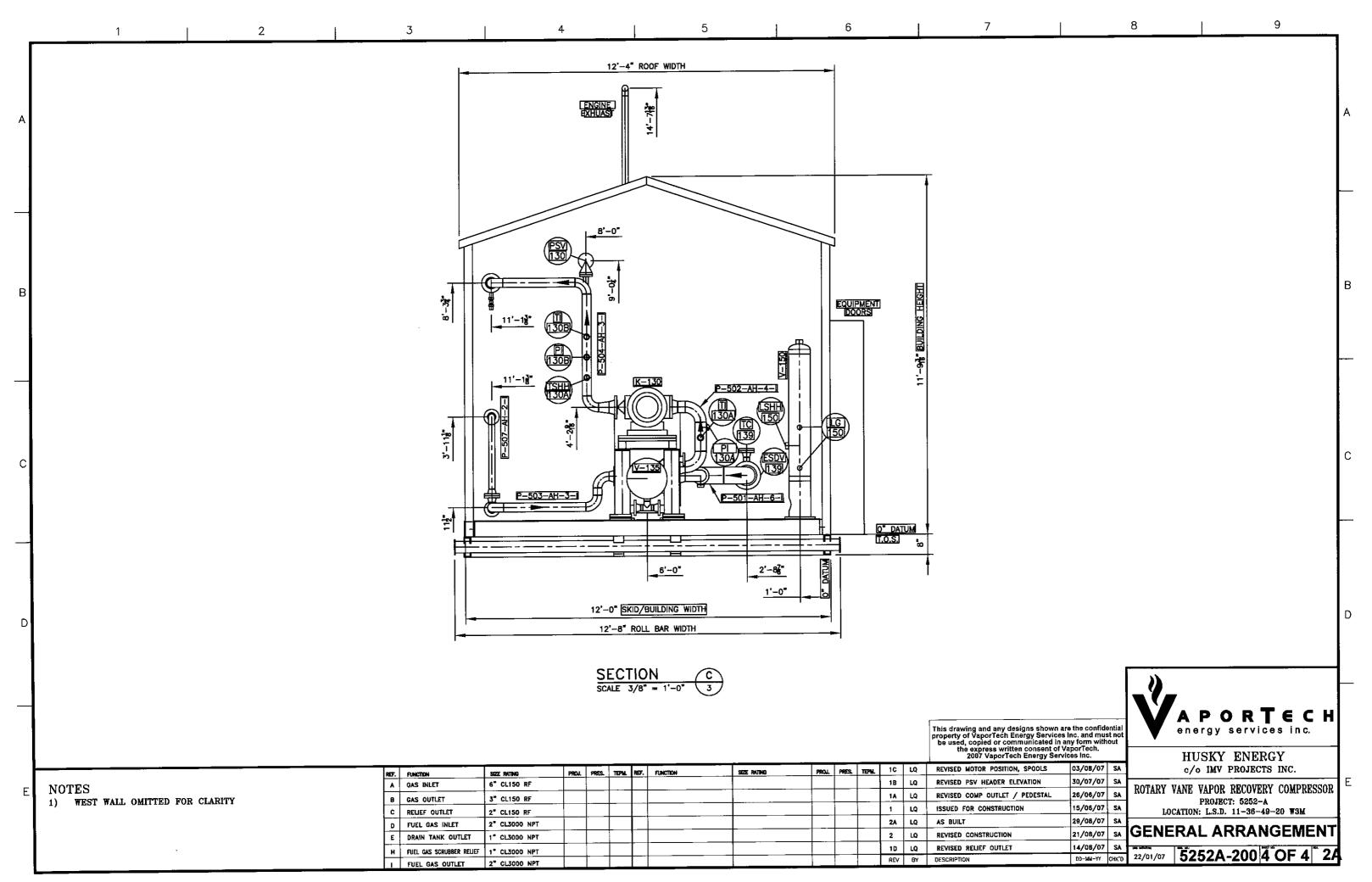
```
Analysis based on worst case, where the skid cross runners support
  all substantial loads (over 400 lbs.).
BEAM LENGTH = 56.25 in
MATERIAL PROPERTIES
  Base Runner:
  Modulus of elasticity = 30000000.0 lb/in<sup>2</sup>
  Stress limit = 30000.0 \text{ lb/in}^2
  Density = 0.284 \text{ lb/in}^3
CROSS-SECTION PROPERTIES
  Cross Runner:
  Moment of inertia = 371.9911 in^4
  Top height = 7.41315 in
  Bottom height = 6.813228 in
  Area = 13.14527 in<sup>2</sup>
EXTERNAL CONCENTRATED FORCES
  V-135 (16"): 650.0 lb at 28.125 in
  Motor: 1800.0 lb at 28.125 in
UNIFORMLY DISTRIBUTED FORCES
  Piping/Electrical: 15.0 lb/in at 0.0 over 56.25 in
LIMITS - ABSOLUTE
  Design Criteria:
  Tensile = 14000.0 \text{ lb/in}^2
  Compressive = 14000.0 lb/in<sup>2</sup>
  Shear = 10000.0 \text{ lb/in}^2
  Deflection = 0.75 in
SELF WEIGHT LOADS ***
  Load #1: 3.733256 lb/in at 0.0 over 56.25 in
          Total self weight = 209.9956 lb
SUPPORT REACTIONS ***
  Rollbar 1: Simple at 0.0 in
  Reaction Force =-1751.873 lb
  Rollbar 2: Simple at 56.25 in
  Reaction Force =-1751.873 lb
MAXIMUM DEFLECTION ***
   0.001032847 in at
                          28.125 in
  Safety Factor =726.148
  Safety Margin = 0.7489672 in
MAXIMUM BENDING MOMENT ***
   41862.27 lb-in at
                         28.125 in
MAXIMUM SHEAR FORCE ***
  1751.873 lb at 0.0 in -1751.873 lb at 56.25 in
MAXIMUM STRESS ***
           = 766.7313 \text{ lb/in}^2
  Tensile
                                     Safety Factor =18.259
                                   Safety Factor =16.782
  Compressive = 834.2439 \text{ lb/in}^2
  Shear (Avg) = 133.2702 \text{ lb/in}^2
                                   Safety Factor =75.036
```

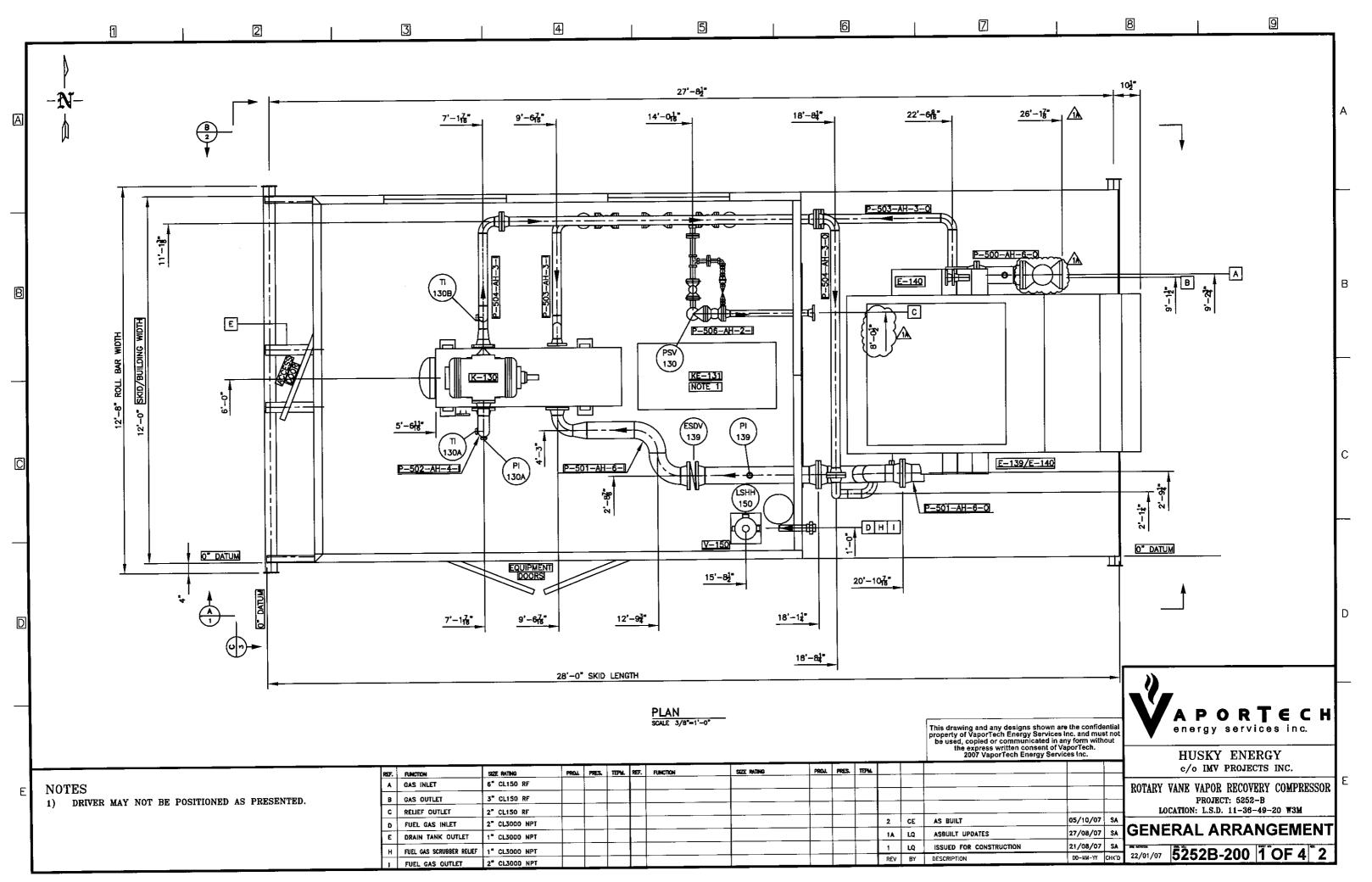
** 5252-300 Skid Calc Cross Runners-0 ***********************

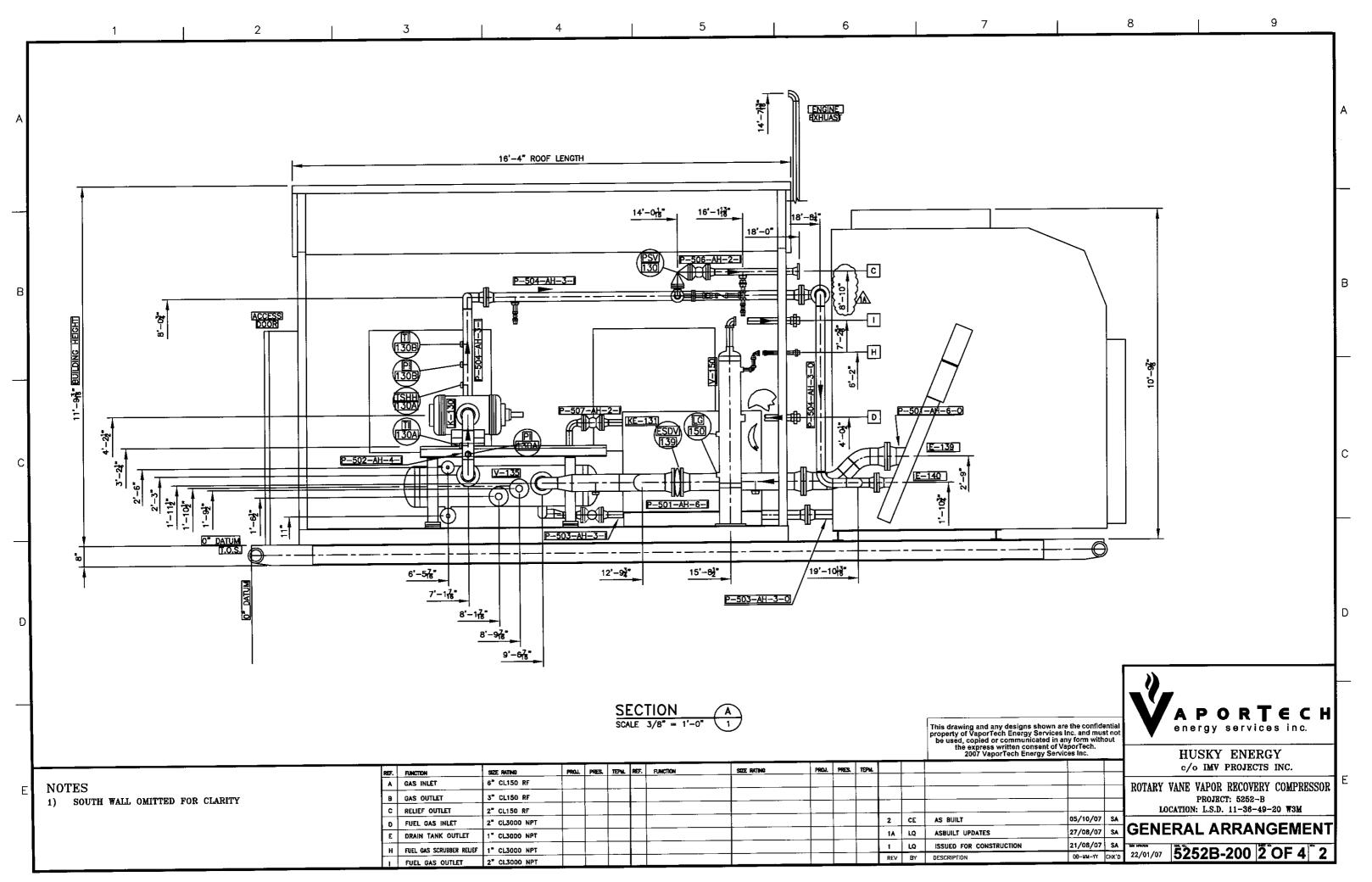


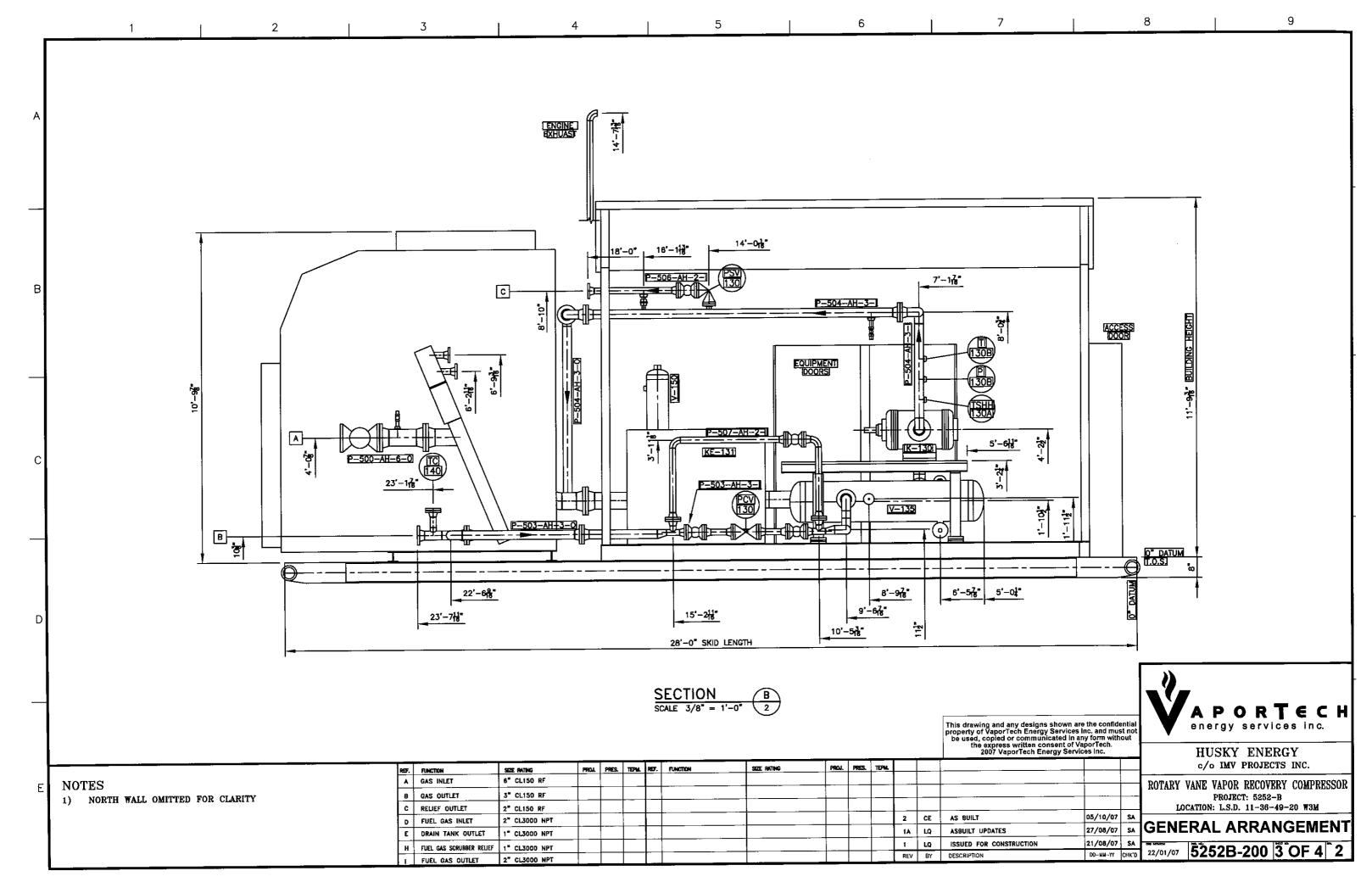


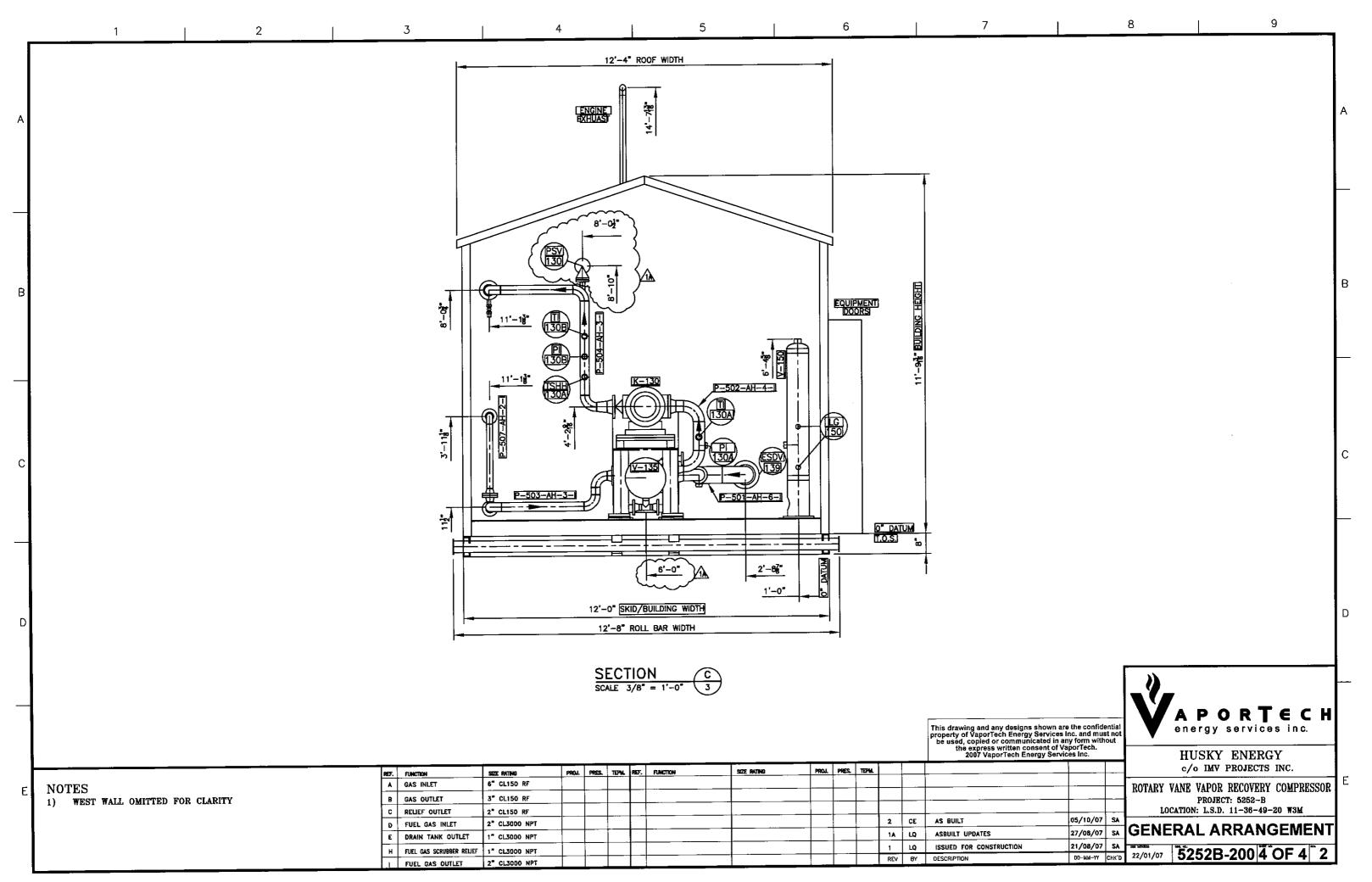


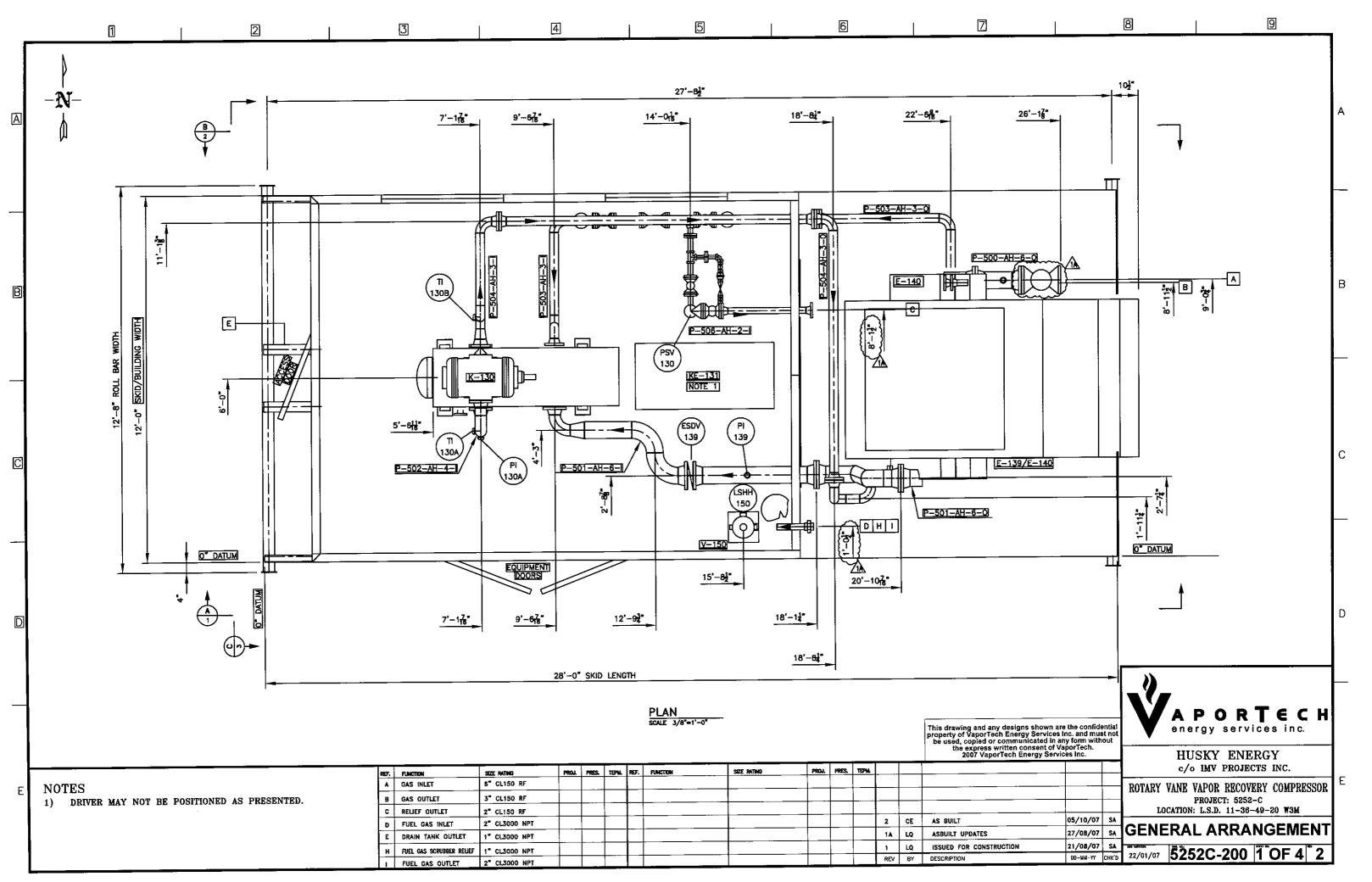


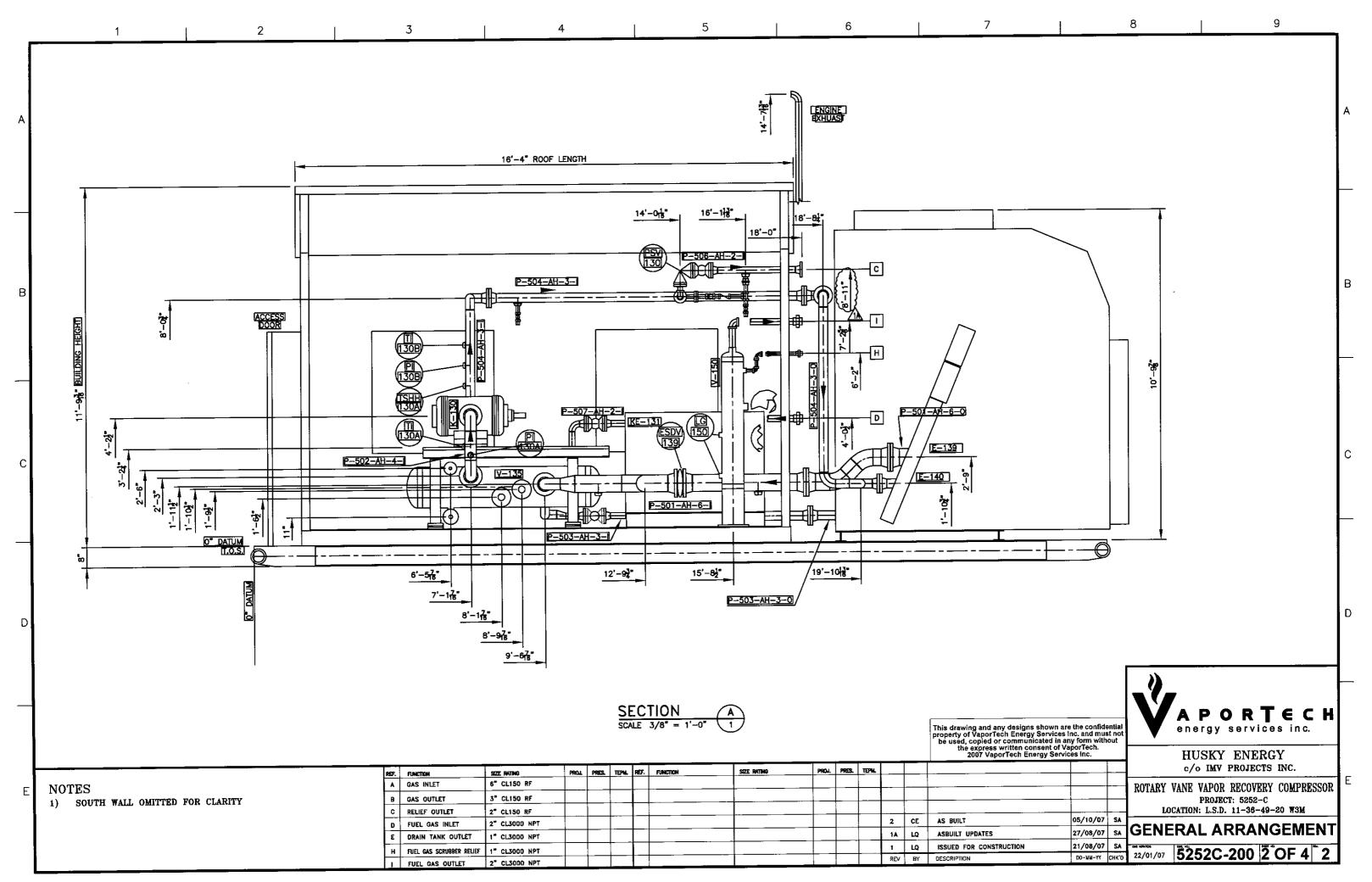


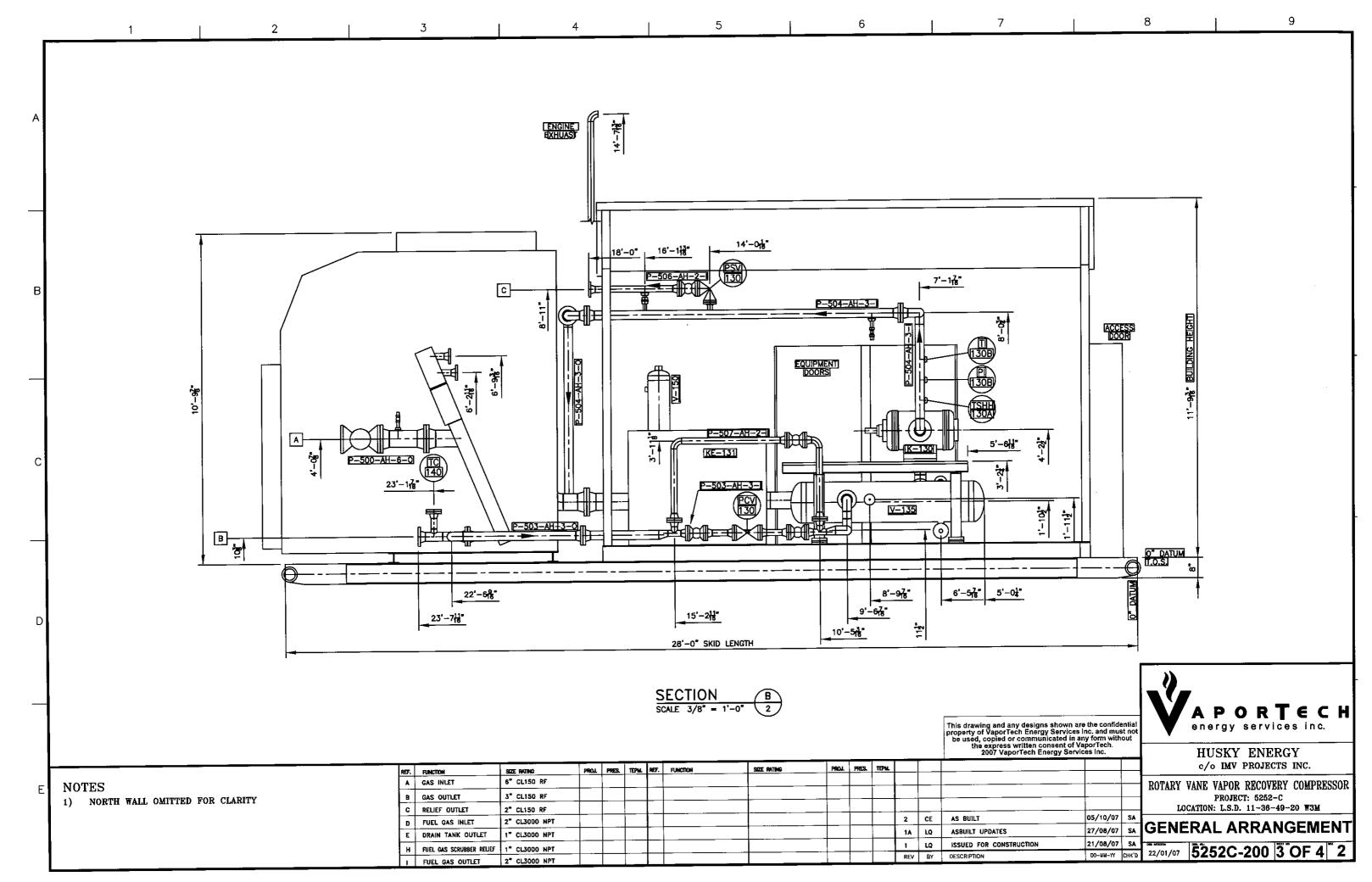


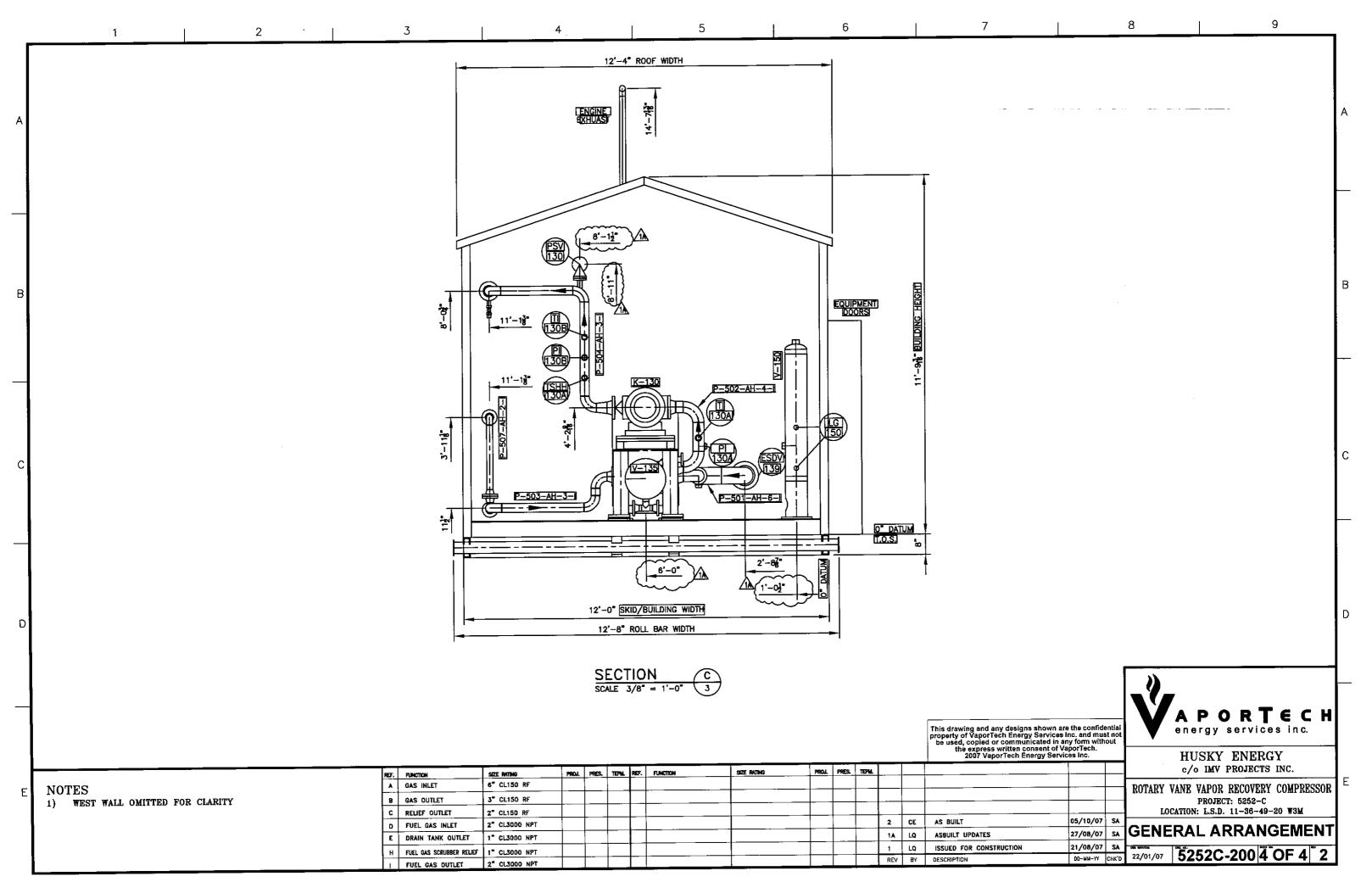


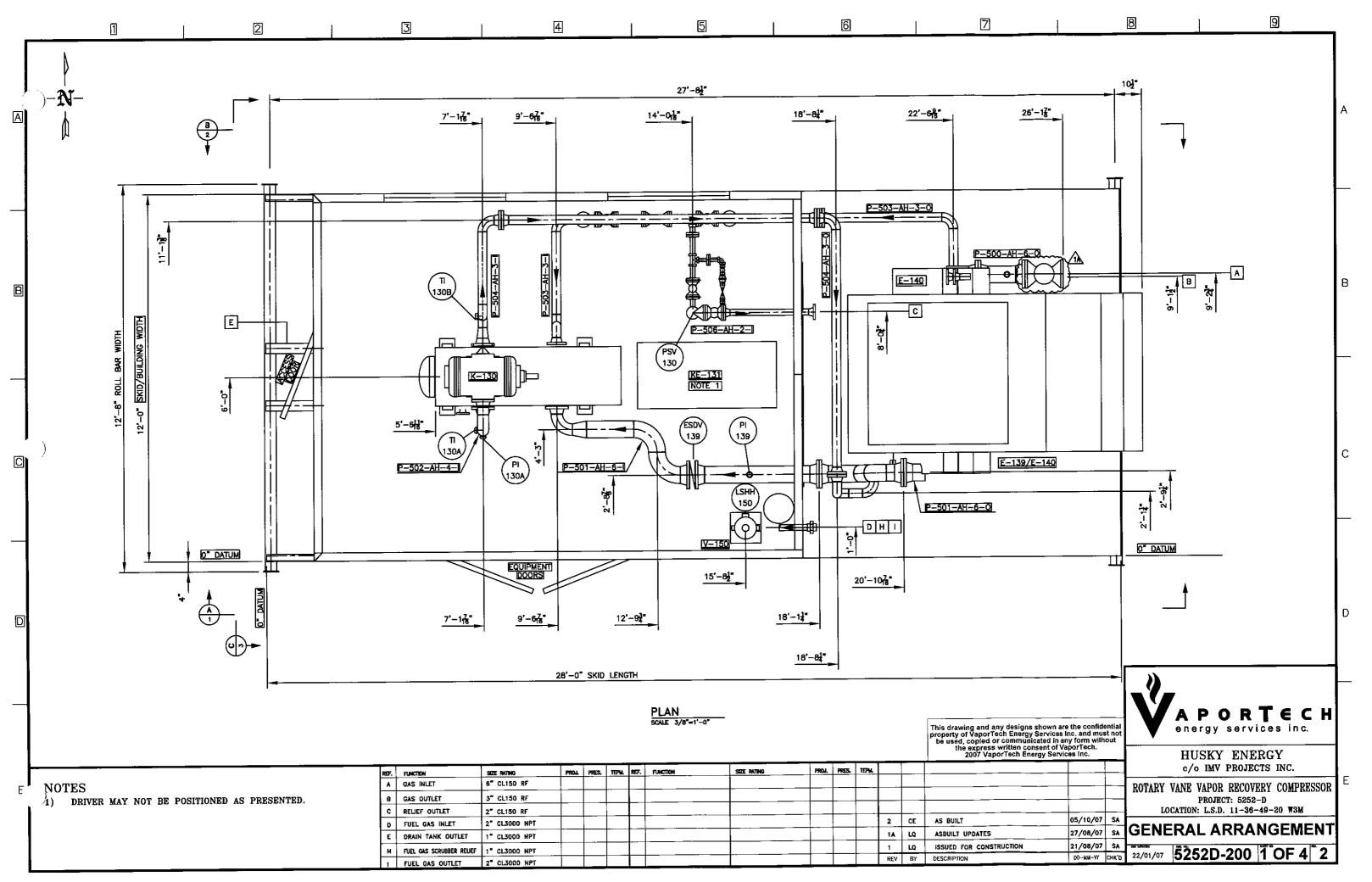


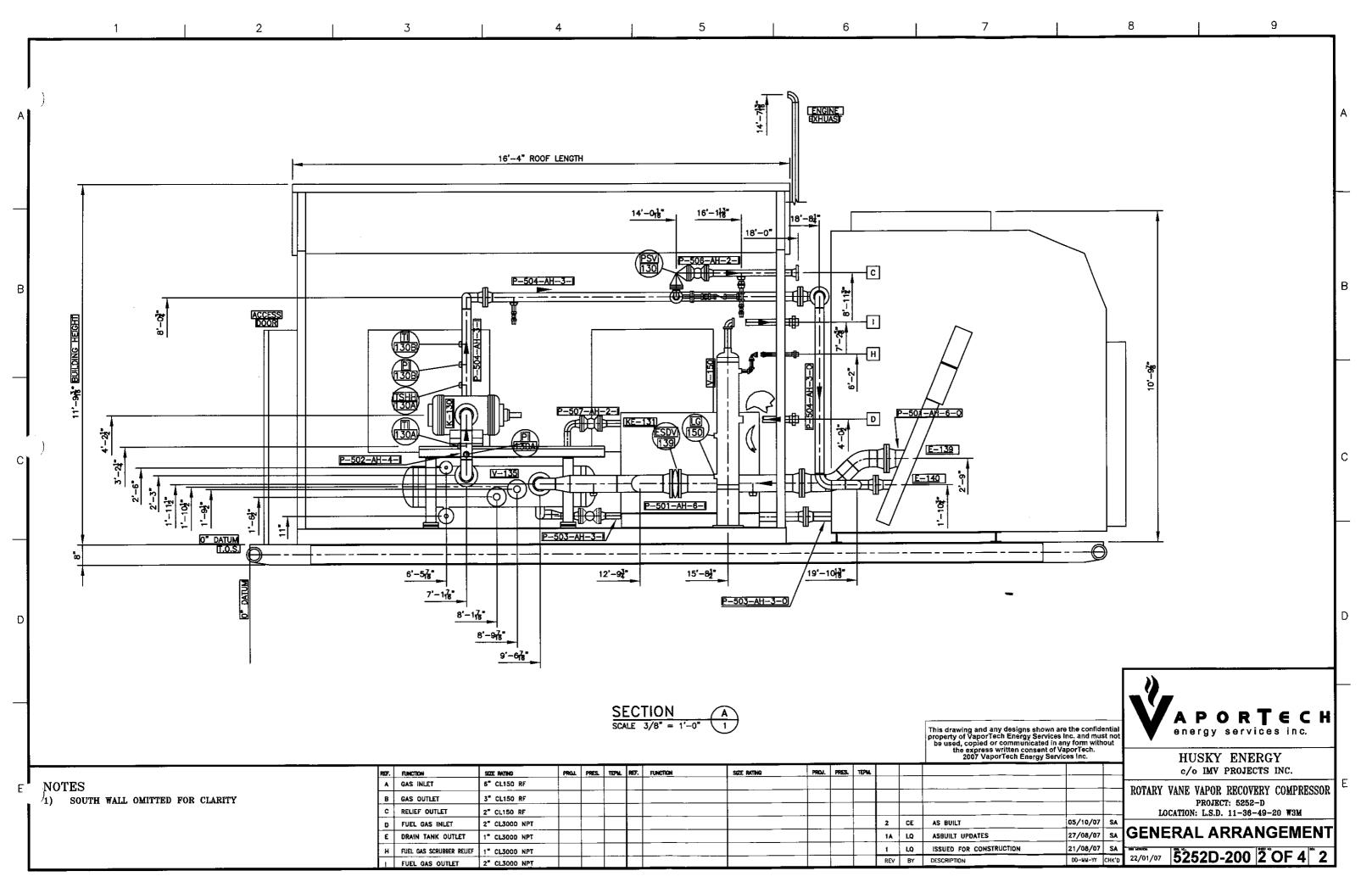


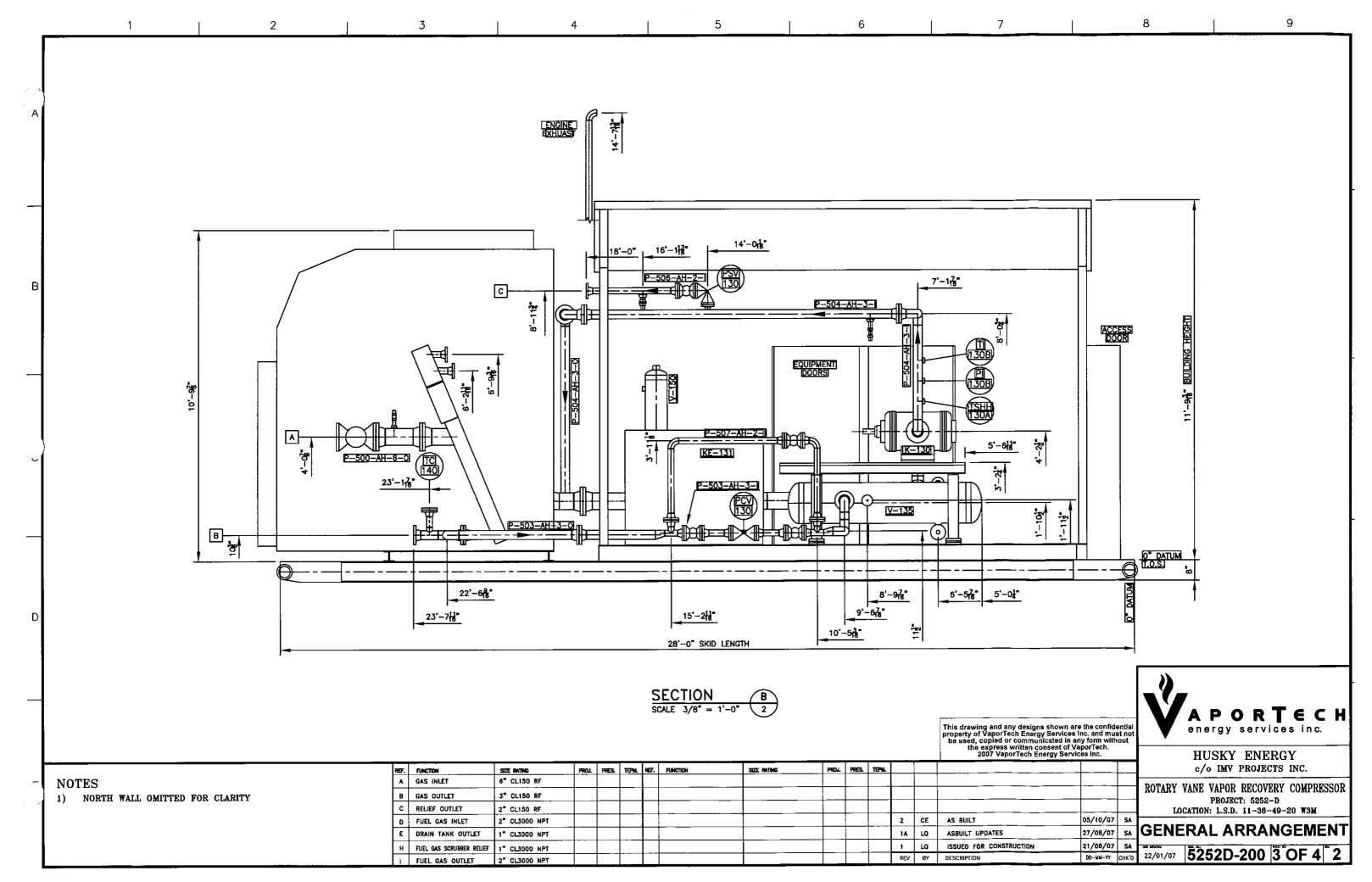


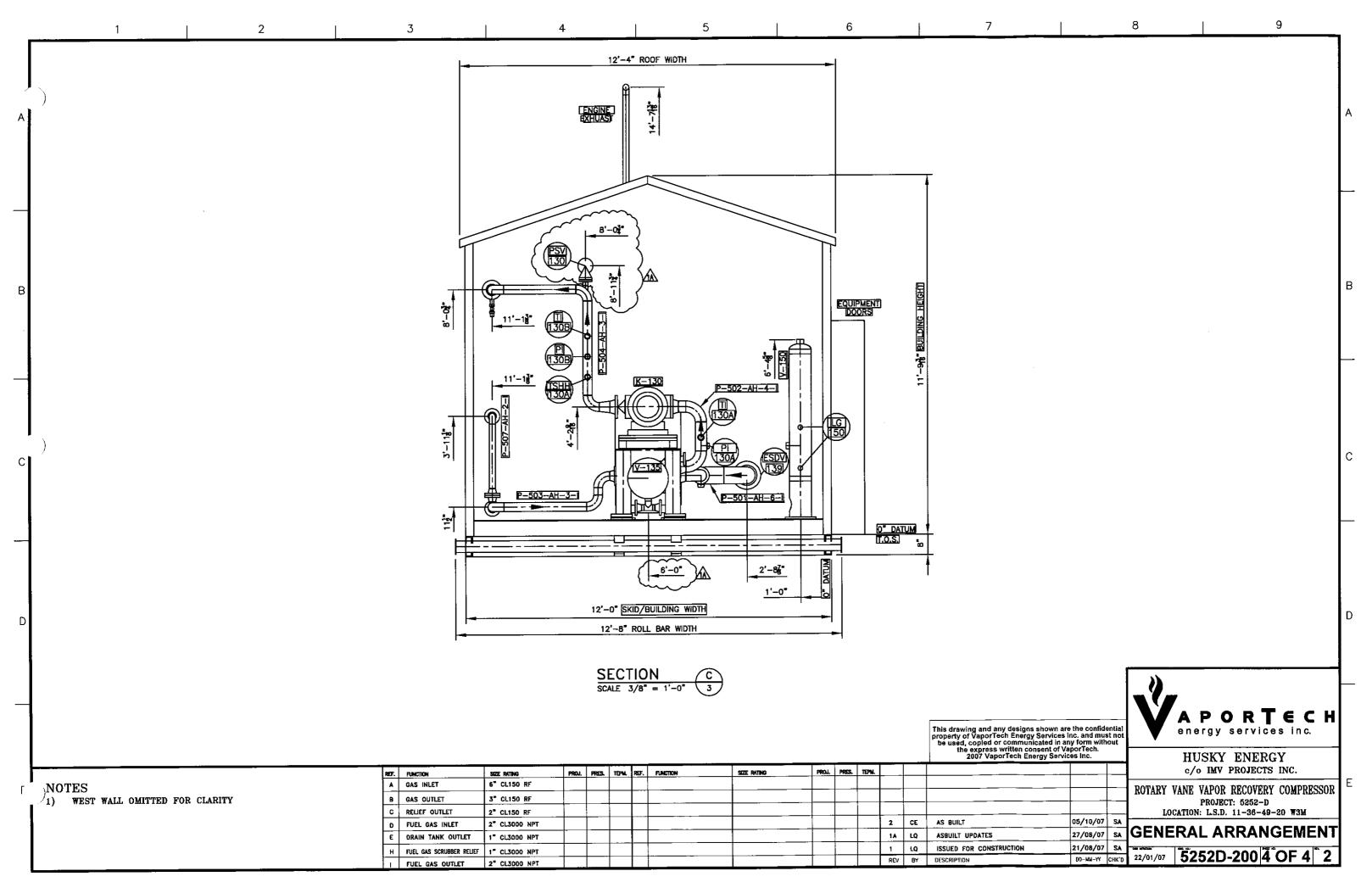


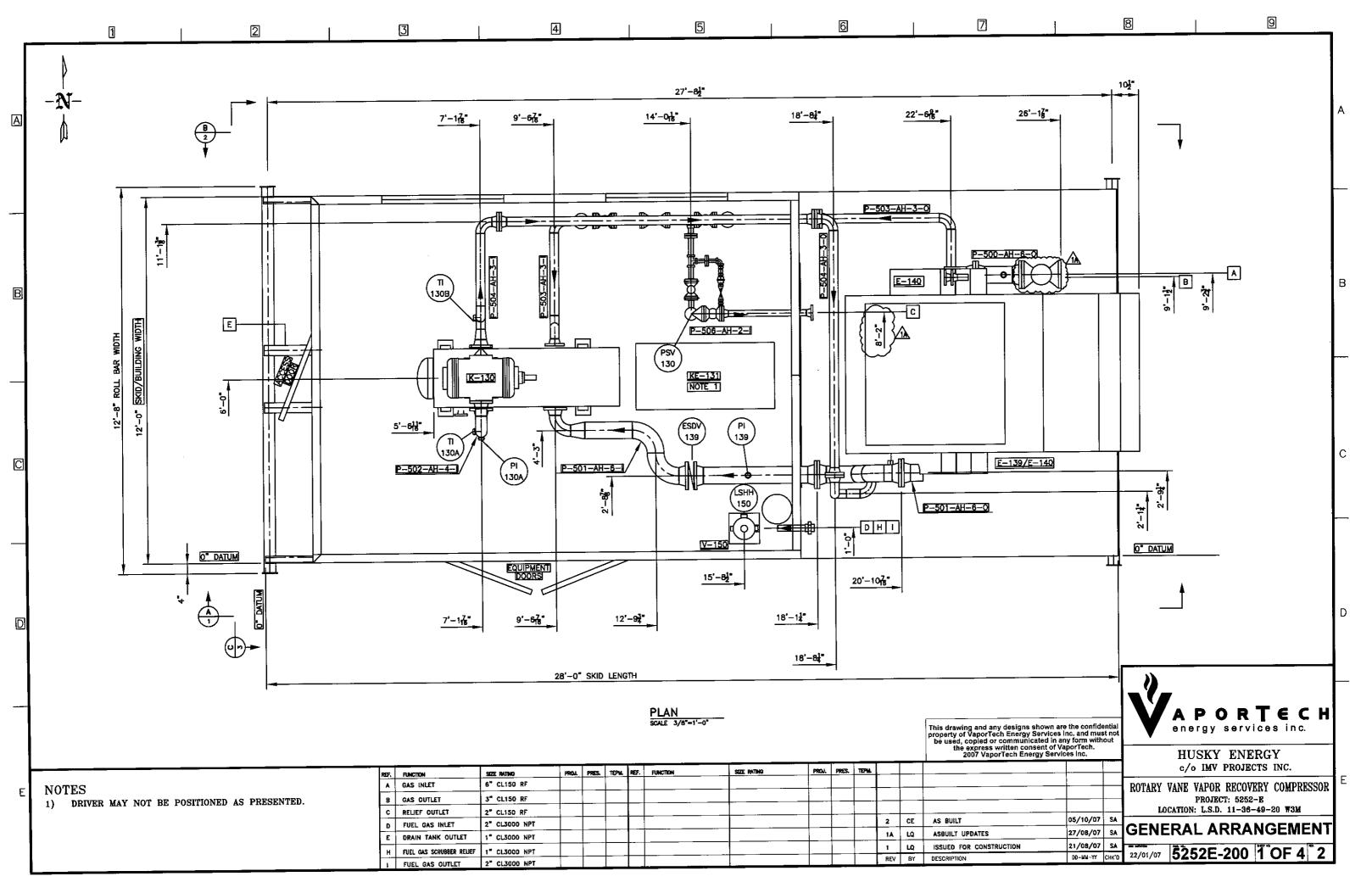


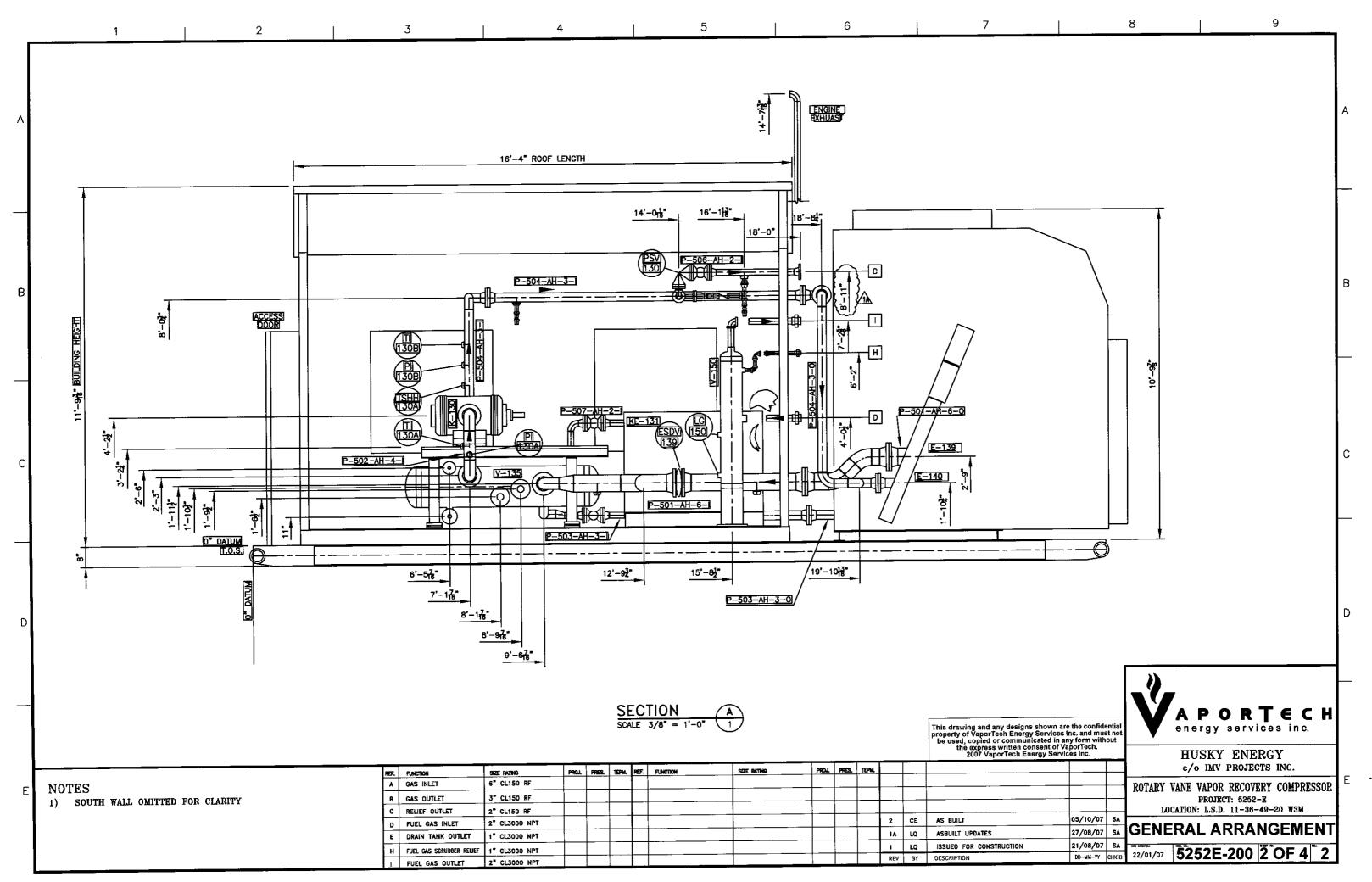


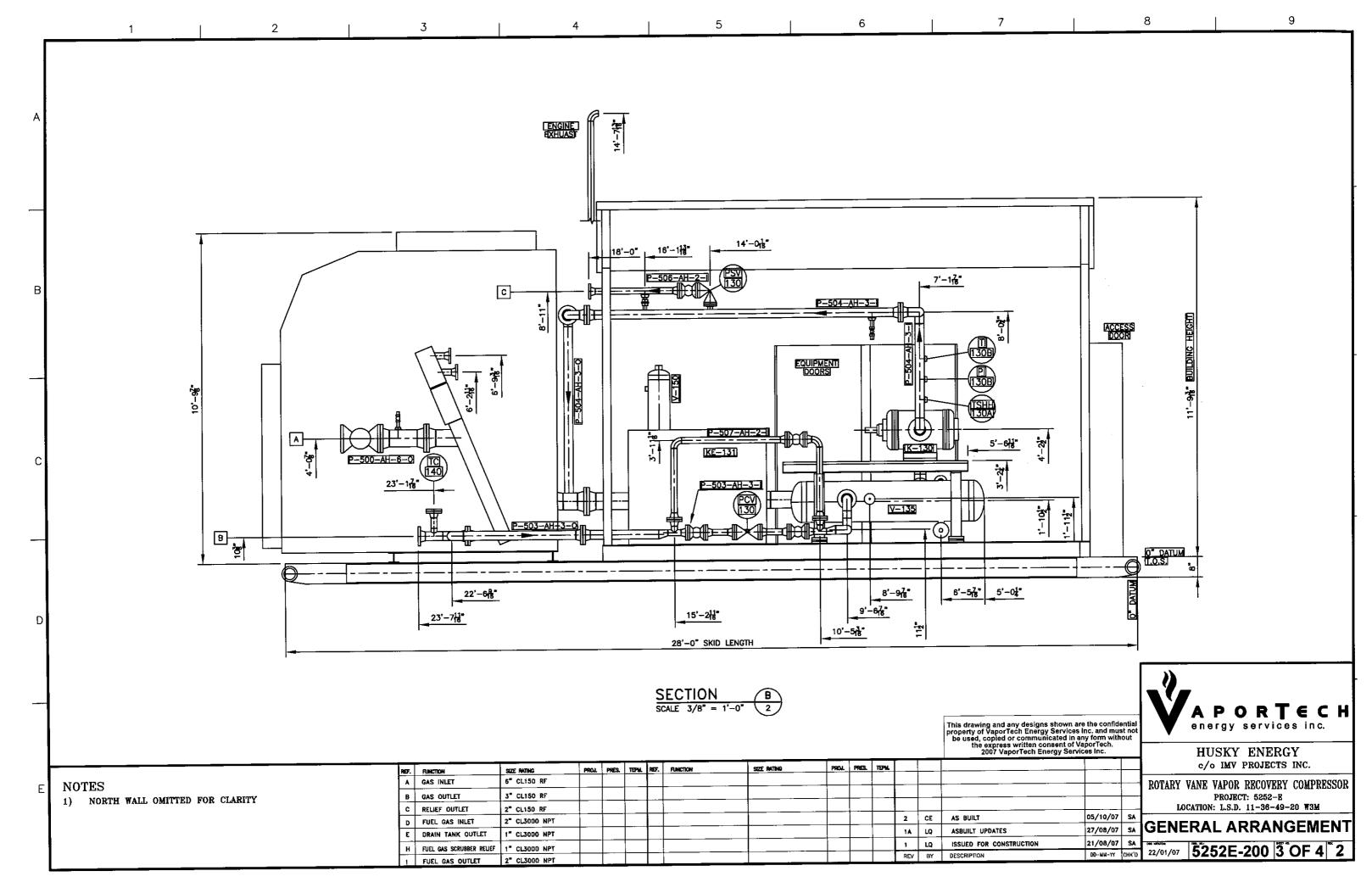


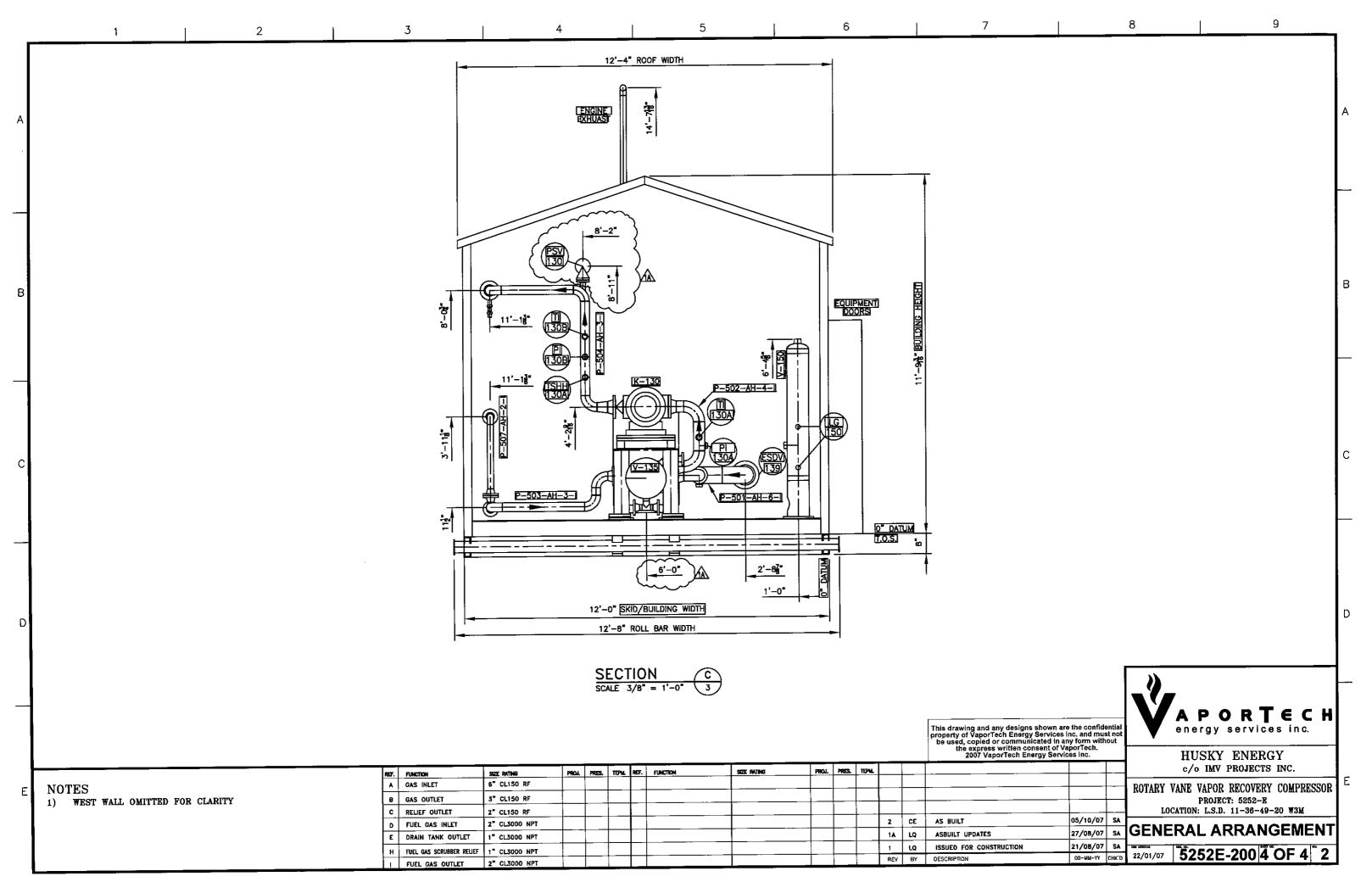


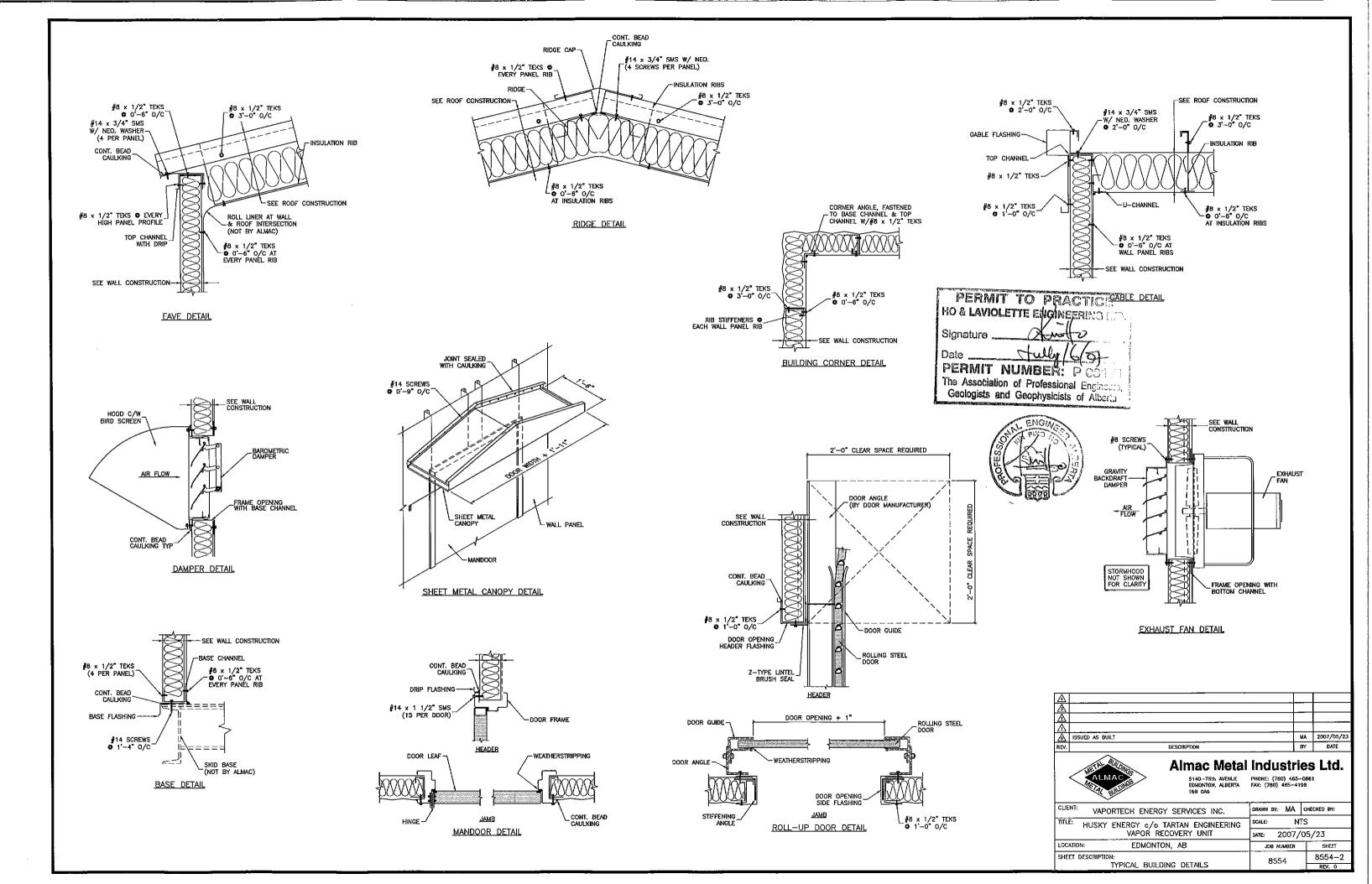


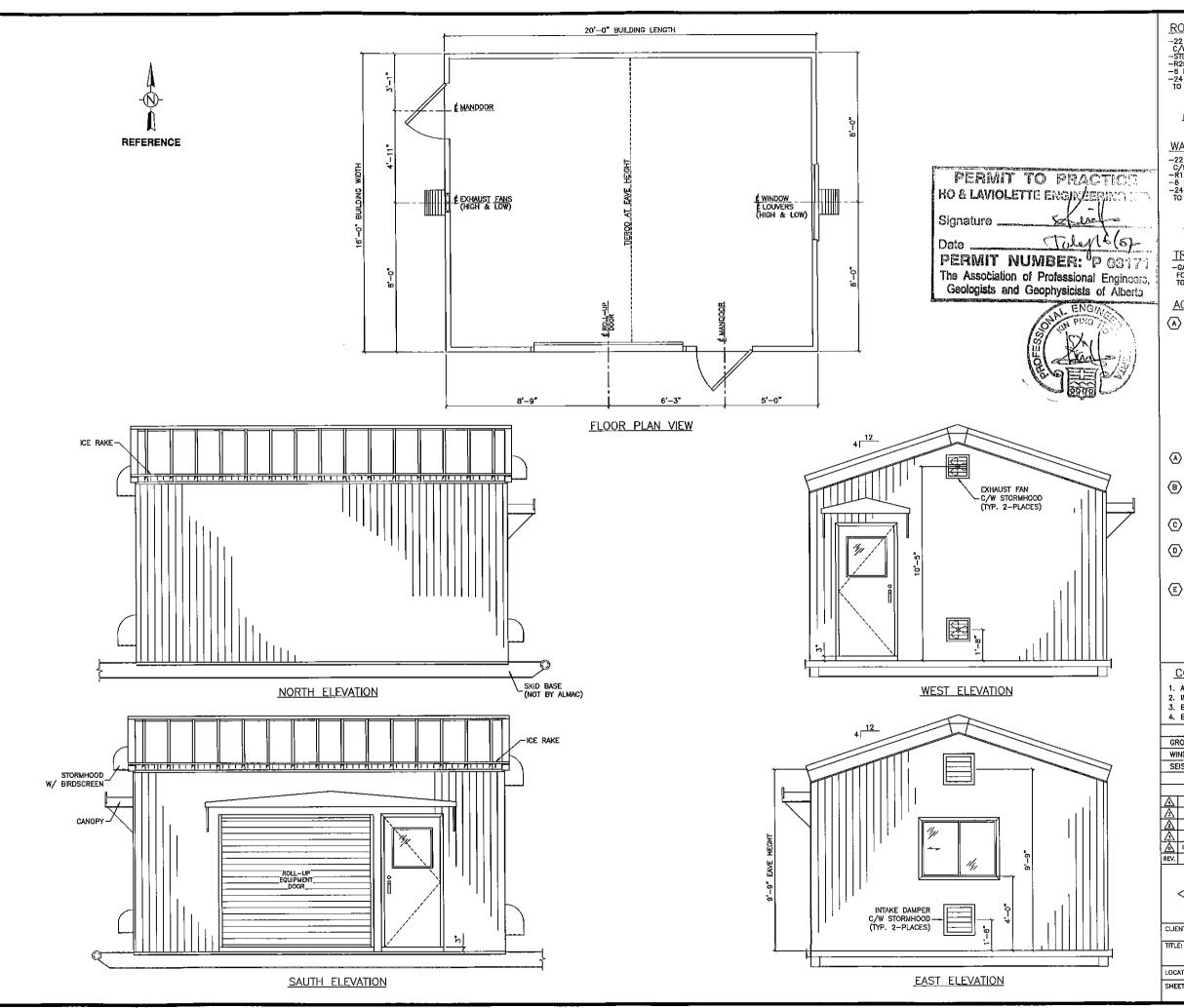






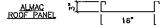






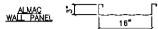
ROOF CONSTRUCTION:

- -22 GA PREPAINTED STEEL INTERLOCKING STRUCTURAL RIB ROOF PANELS C/W 8000 SERIES PAINT SYSTEM, TO COLOUR: GOLD (QC-276)
 -STEEL INSULATION RIBS AT ROOF PANEL JOINTS.
 -R20 (6") FIBREGLASS BATT INSULATION.
 -8 MIL POLLY VAPOUR BARRIER.
 -24 GA PERFORATED ALUMINUM FLUTED PROFILE LINER PANELS,
 TO COLOUR: WHITE



WALL CONSTRUCTION:

- -22 GA. PREPAINTED STEEL INTERLOCKING STRUCTURAL RIB ROOF PANELS C/W 8000 SERIES PAINT SYSTEM, TO COLOUR: GOLD (OC-276)
 -R12 (3") FIBREGLASS BATT INSULATION.
 -6 MIL POLY VAPOUR BARRIER.
 -24 GA. PERFORATEO ALUMINUM FLUTED PROFILE LINER PANELS,
 TO COLOUR: WHITE



TRIM COLOURS:

-GABLE FLASHING AND ALL NOTED FLASHINGS ARE TO BE FORMED FROM 8000 SERIES PREPAINTED STEEL MATERIAL, TO COLOUR: METRO BROWN (QC-228)

ACCESSORIES:

- (A) TWO ONLY 3'-0" x 7'-0" STEEL INSULATED EXTERIOR WALK-IN DOOR C/W HARDWARE AS FOLLOWS:
- WALK-IN DOOR C/W HARDWARE AS FOLLOWS:

 *DOOR LEAF-20 GA. STEEL 45mm THK HONEYCOMB CORE (R4)

 *DOOR FRAME-16 GA. PRESSED STEEL

 *BUTT HINGES-"SHANAHANS" *BB1679 x 4.5x4 x 26D

 *PANIC HARDWARE-"VON DUPRIN" #44TP

 *LOCK CYLINDER-"DOREX" *501 KA x C25D

 *WIRE GLASS 24" x 24" SINGLE GLAZED (I.W.G.)

 *CHECK CHAIN-"CANAROPA. #35548

 *THRESHOLD-"KN CROWDER" #CT-94 (ALUM.)

 *WEATHERSTRIP-"KN CROWDER" #CT-94 (ALUM.)

 *WEATHERSTRIP-"KN CROWDER" #W-2 (ALUM./VINYL)

 *SWEEP-"DRAFTSEAL" #DS-9 (ALUM./VINYL)

 *SHEET METAL CANOPY, TO COLOUR: METRO BROWN (QC-228)

- DOOR LEAF FINISH: METRO BROWN (QC-228)
 DOOR FRAME FINISH: METRO BROWN (QC-228)
- (A) ONE ONLY 8'-0" WIDE x 7'-0" HIGH, INSULATED STEEL MINI STORAGE ROLL-UP DOORS C/W HSS DOOR FRAME.
- (B) ONE ONLY 4'-0" WIDE x 3'-0" HIGH (NOM. SIZE), DOUBLE GLAZED ALUMINUM SILDING WINDOW C/W LOCK, FIBERGLASS CLOTH SCREEN AND PLAIN GLASS.
 FINISH: METRO BROWN (QC-228)
- \fbox{C} two only 20'-0" long continuous roof mounted ice rakes. Finish: $\underline{\text{10 Match Roof Panels}}$
- (E) TWO ONLY WALL MOUNT EXPLOSION PROOF EXHAUST FAN, "ENERTECH" MODEL NO. ET—12—2, C/W 120/60hz/1ph, 1/2hp MOTOR, SHUTTER, GUARDS AND STORMHOOD W/ BIRDSCREEN. HOOD FINISH: GOLD (QC—276)

CONSTRUCTION NOTES:

- 1. ALL EXTERIOR SCREWS ARE TO BE CADMIUM PLATED. "UN-PAINTED"
 2. INTERIOR LINER SCREWS ARE TO BE PAINTED WHITE TO MATCH LINER PANELS
- 3. BUILDING PACKAGE INCLUDES BASE FLASHING.
- 4. BUILDING PACKAGE INCLUDES INTERIOR DRIP LIP FLASHING (3" HIGH).

В	uilding [DESIGN	LOADS	(kPa)	
GROUND SNOW LOAD - Ss =	1.60,	Sг	= 0.10		
WIND LOAD q1/30 = 0.40					
SEISMIC ZONE - Za = 0.00,	Zv =	1.00,	V =	0.05	

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A	ISSUED AS-BUILT		 MA	2007/05/2
REV.		DESCRIPTION	BY	DATE



Almac Metal Industries Ltd.

6140-76th AVENUE PHONE: (780) 465-0861 EDMONTON, ALBERTA FAX: (780) 465-4198 T6B 0A6

·					
CLIENT: VAPOR-TECH ENERGY SERVICES INC.	DRAWN BY: MA C	HECKED 8Y:			
TITLE: HUSKY ENERGY c/o TARTAN ENGINEERING VAPOR RECOVERY UNIT	scale: 3/16"=1'-0"				
VAPOR RECOVERY UNIT	DATE: 2007/05/22				
LOCATION: EDMONTON, AB	JOB NUMBER SHEET				
SHEET DESCRIPTION:	8554	8554-1			
I DIANIAND ELEVATION VIEWS					