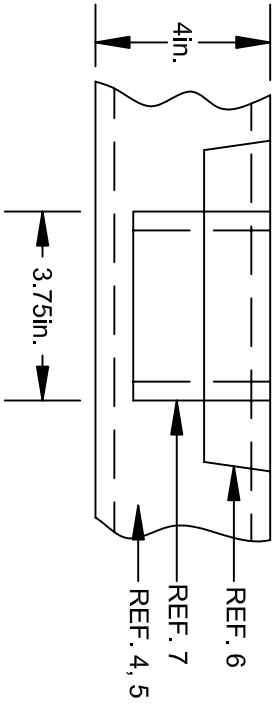
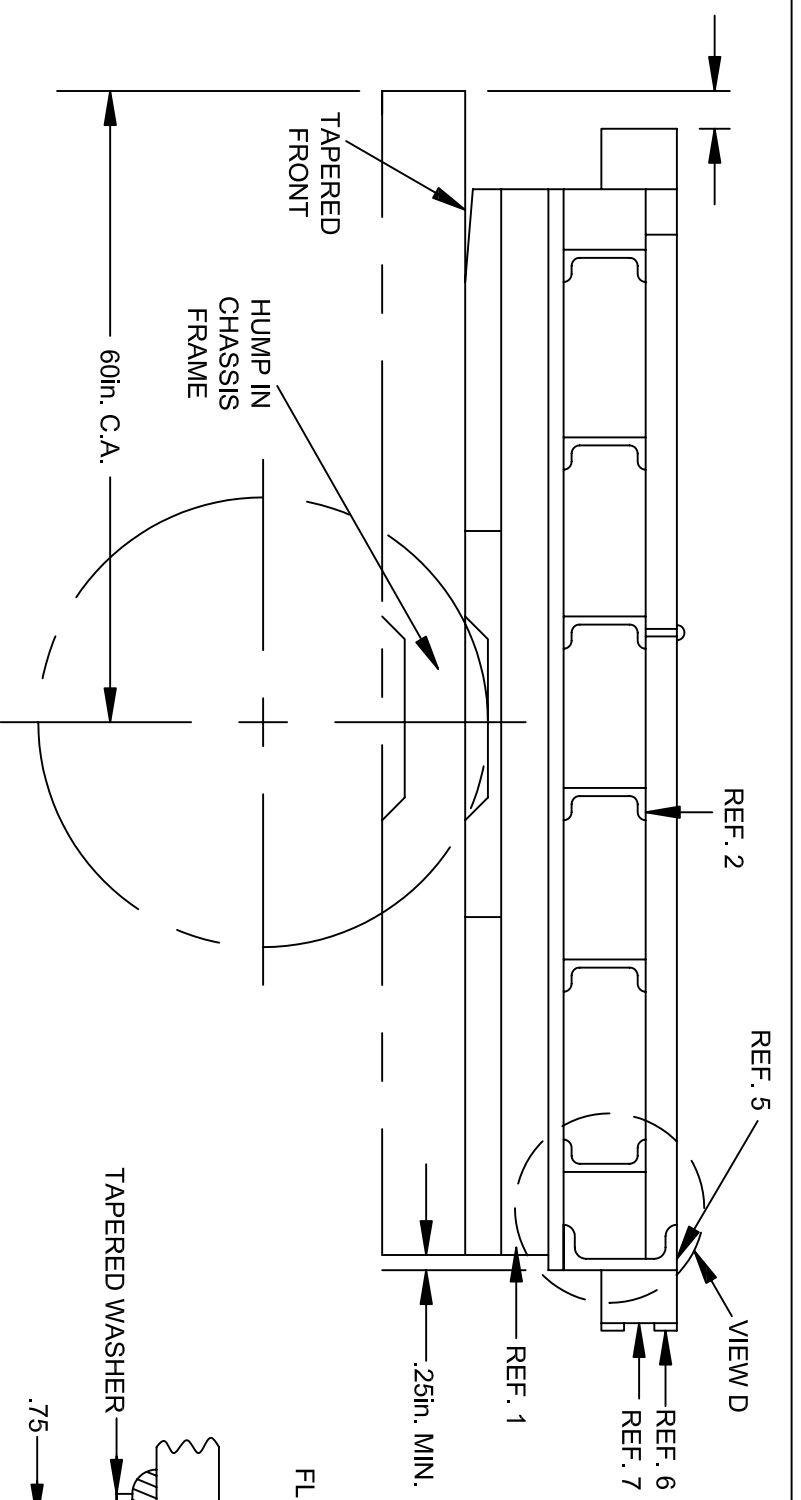


VIEW "A"

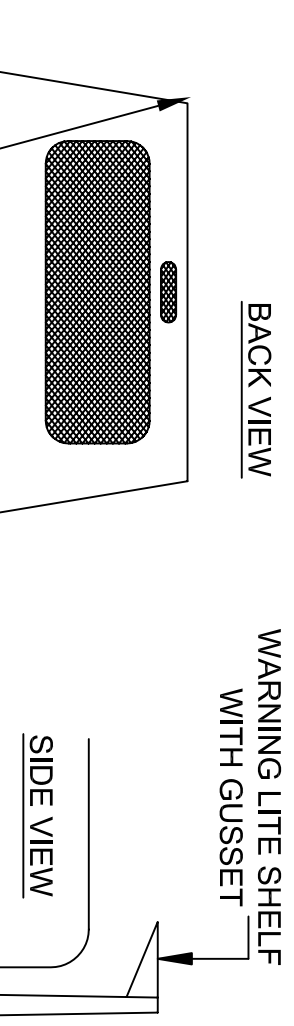
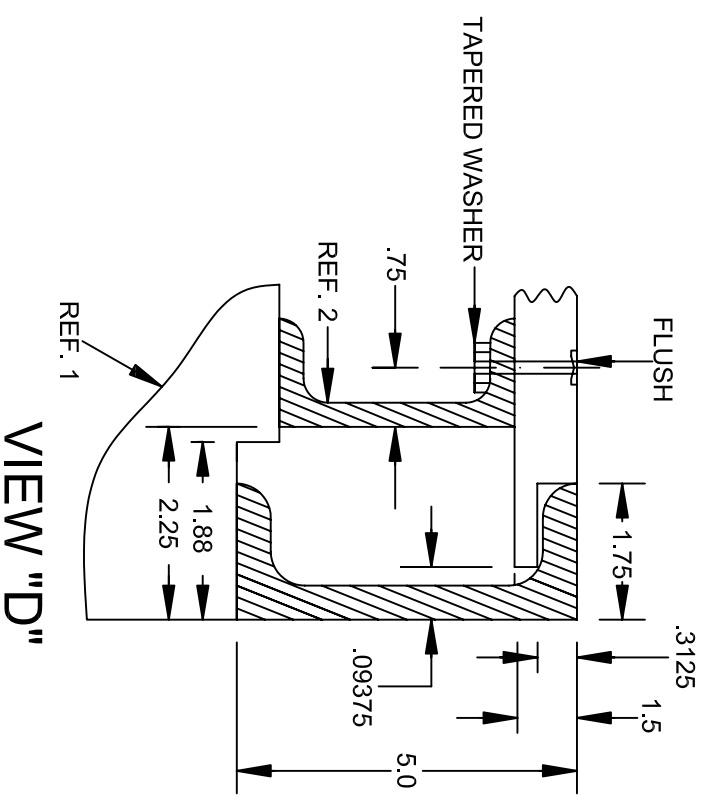


PA DEPARTMENT OF TRANSPORTATION

REVISIONS			CREW CAB 17,000 & 11,000 lb. GWWR TYPICAL FLAT BED BODY		
NO.	DATE	BY	SCALE	DRAWN BY	DATE
1	05-04-07	CJW		DLW	12-17-97
2	05-10-07	KNH	N/A		
3	08-01-08	MHH			



NOTE:
ALL
DIMENSIONS
IN INCHES



THE BULKHEAD EXPANDABLE METAL / PREPUNCHED SHALL BE FULL WIDTH AND HEIGHT WITH THE REAR WINDOW OF THE VEHICLE. BULKHEAD SHALL BE CONSTRUCTED IN SUCH A WAY AS TO NOT OBSTRUCT LINE-OF-SIGHT WHEN USING SIDE MIRRORS, REAR VIEW MIRROR OR THE THIRD BRAKE LIGHT.

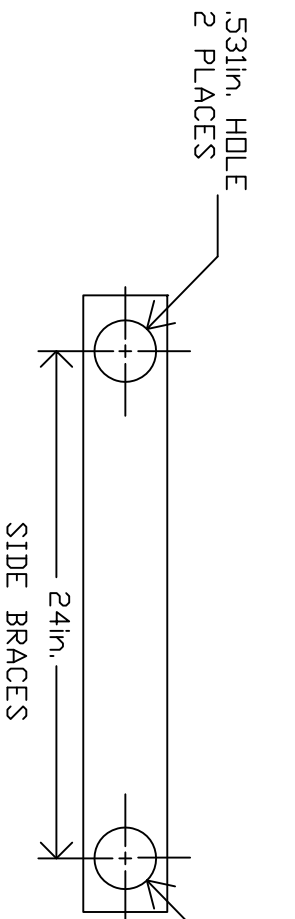
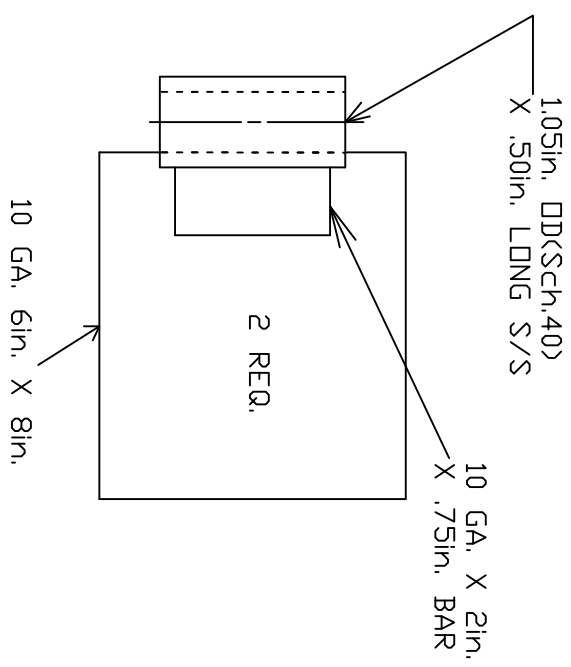
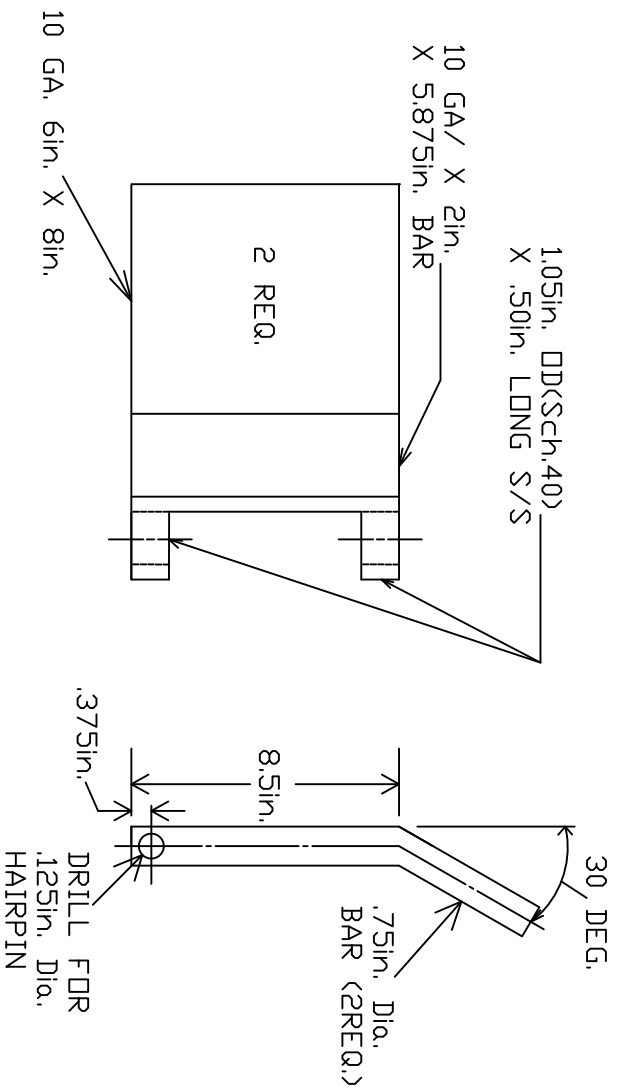
REVISIONS			PA DEPARTMENT OF TRANSPORTATION		
NO.	DATE	BY	CREW CAB 17,000 & 11,000		
1	05-04-07	CJW	GWWR TYPICAL FLAT BED BODY		
2	05-10-07	KNH	DRAWN BY	DLW	SCALE
3	08-01-08	MHH	DATE	12-17-97	CHK'D BY
4					KGK
5					

EON-2C
SHEET 2 OF 4

MK	REQ'D	DESCRIPTION
1	2	5" CHANNEL @ 6.7#X.38" LG
2	7	3" CHANNEL @ 4.1#X.84.625" LG
3		
4	12	.1875" PLATE X 5.50" X 9" GUSSET
5		
6		
7	2	5" CHANNEL @ 6.7#X97-.25" LG RUB RAIL
8		
9	2	5" CHANNEL @ 6.7#X85" LG
10	2	.25" X 1.56" FLAT X86 - .25" BINDER RAIL
11	16	11GA 1.5" X 3.5 INSIDE DIM POCKET (FORMED)
12	2	
12A		
13	2	3' X 3.5" X 20" OAK SILLS
14		
15		
16	4	.1875" PLT X 4.5" X 9" GUSSET FRONT REAR
17	2	

PA DEPARTMENT OF TRANSPORTATION

REVISIONS		CREW CAB 17,000 & 11,000 lb. GVWR TYPICAL FLAT BED BODY	
NO.	DATE	BY	
1	4-20-07	KNH	
2	5-04-07	CJW	SCALE N/A EQN-2C
3	5-10-07	KNH	DATE 12-17-97 CHG'D BY WHM SHEET 4 OF 4
4	8-01-08	MHH	

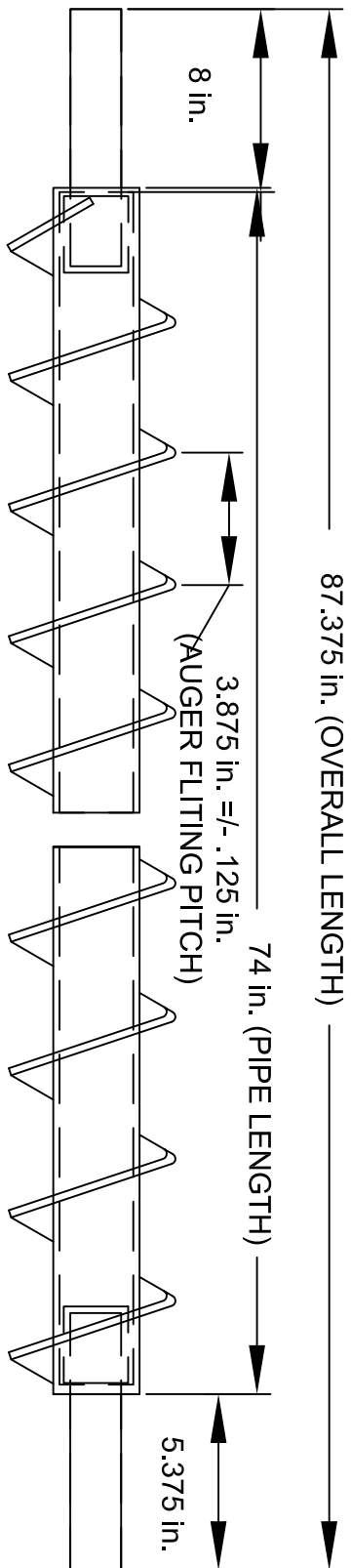


.125in. X 1.50in. X 26in. HANGER
BRACE (2 REQ.) W/TWD (2) .50in. X 1.25in.
STAINLESS STEEL BOLTS AND NUTS.
DRILL FOR .125in. HAIR PIN (STAINLESS
STEEL, LENGTH AS REQUIRED, QTY. 4).

- NOTES:
1. ALL DIMENSIONS IN INCHES
2. MATERIAL OF CONSTRUCTION: STAINLESS
STEEL THROUGHOUT, AISI TYPE 304.

PA DEPARTMENT OF TRANSPORTATION

REVISIONS		QUICK DETACH SPREADER KIT	
NO.	DATE	BY	SCALE
1	01/05/98	DLW	N/A
2	05/23/02	DWG	N/A



HELICOID FLIGHT (RIGHT HAND)
SINGLE CONTINUOUS SCREW TYPE
(BAR SIZE, BEFORE ROLLING, TO BE
SUCH THAT FLITING O.D. IS AS SHOWN
IN END VIEW AT RIGHT, AND OUTER
EDGE THICKNESS IS AS SHOWN IN
FLITING THICKNESS SPECIFICATION)

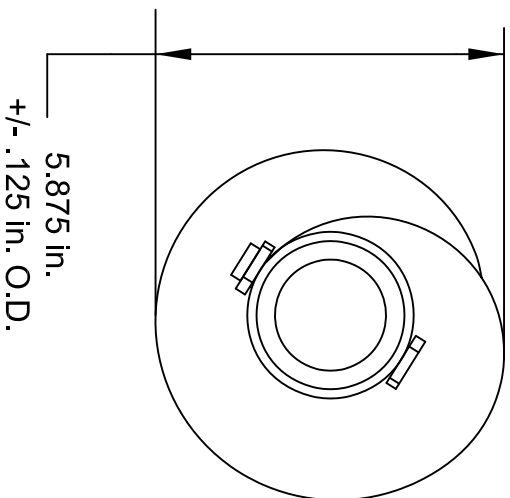
VIEW SHOWING COMPLETE
AUGER WELDMENT

2 in. (2.375 O.D.)
SCHEDULE 80 (.20 in. WALL)
CARBON STEEL PIPE
(PIPE SIZE E.R.W. TUBING ACCEPTABLE)

SPECIFICATION NOTES

1. PIPE PORTIONED WORTH (WITH WELDED FITTING) TO BE STRAIGHT TO GIVE MAXIMUM OF .20 IN. TOTAL RUNOUT
2. BOTH STUB SHAFT CENTERLINES TO LIE ON PIPE CENTERLINE TO GIVE MAXIMUM OF .20 IN. TOTAL RUNOUT
3. ALL SURFACES OF SLEEVE, SHAFT, AND OTHER PIPE WHICH MAKE CONTACT WITH EACH OTHER TO BE COATED WITH ANTI-SEIZE COMPOUND
4. SHAFT IS REMOVED, AND NOT USED. WHEN AUGER IS USED IN A DIRECT DRIVE APPLICATION

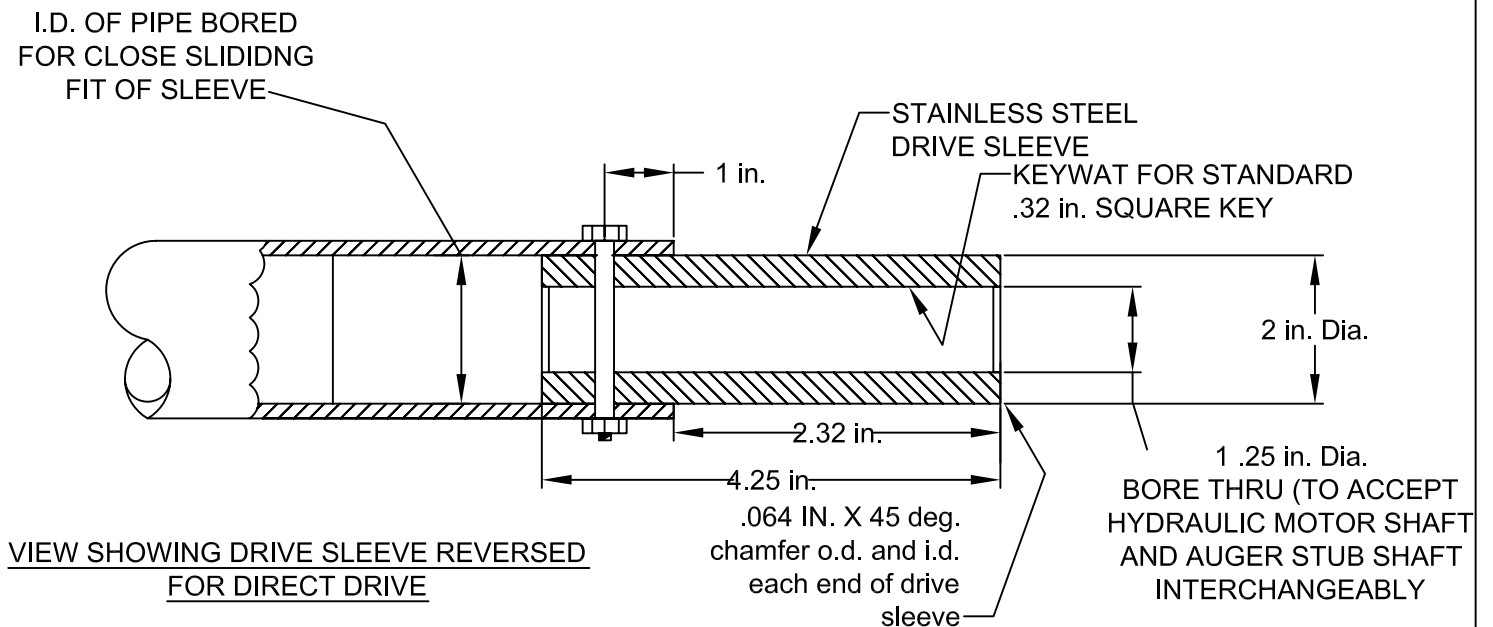
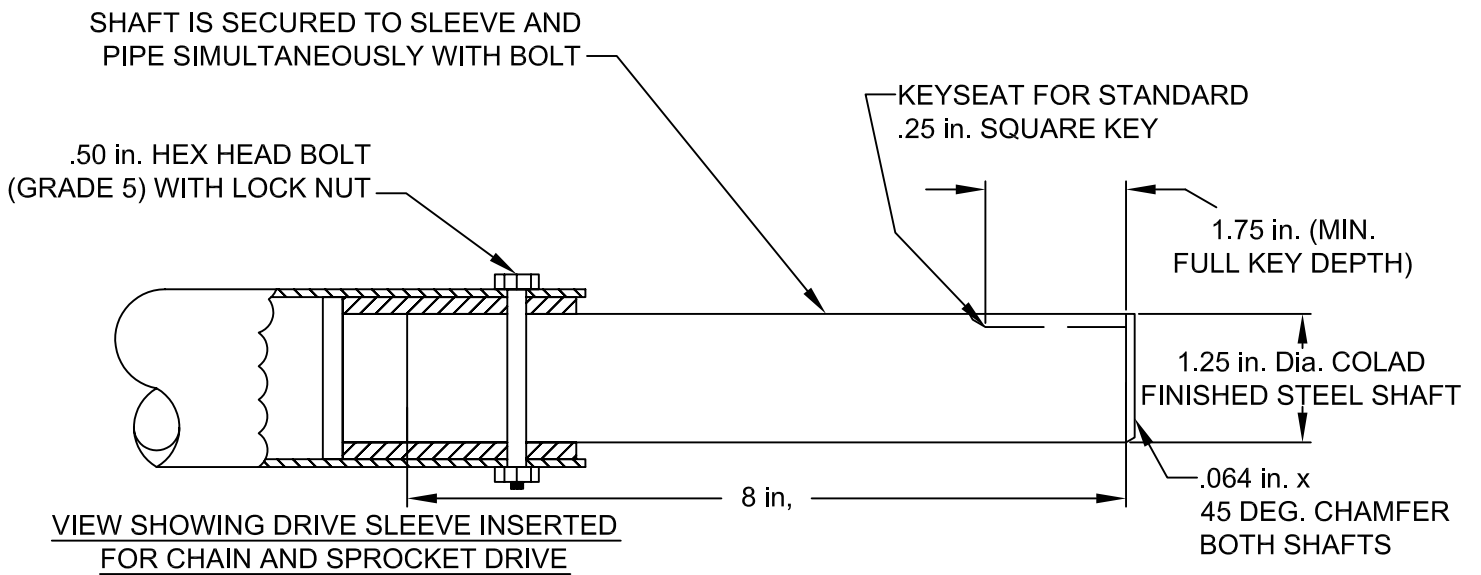
DO NOT SCALE DRAWING TOLERANCES (UNLESS OTHERWISE NOTED)	
FLAME CUTTING, NIBBLING & WELDING	+/- .060
SHEARING & FORMING	+/- .030
PUNCHING	+/- .020
HOLE DIAMETERS	+ .015/- .005
ANGLES	+/- 2 DEG
DECIMAL MACHINING	0.0- +/- .040 0.00- +/- .020 0.000- +/- .005
IMPLIED TOLERANCES DO NOT APPLY TO REFERENCE DIMENSIONS	



PA DEPARTMENT OF TRANSPORTATION

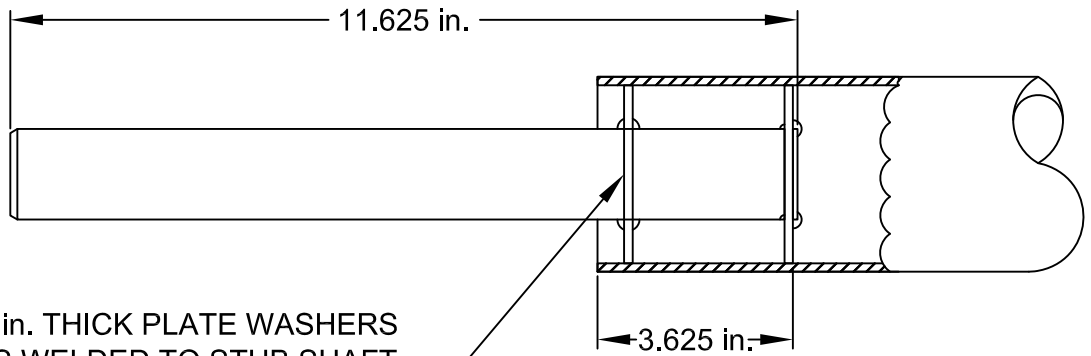
REVISIONS		Penndot Spreader Auger Detail (S/S & RUBBER TROUGH)	
NO.	DATE	BY	
1	01-09-98	DLW	
2	05-28-02	DWG	
3	9-14-07	BAG	

NO.	DATE	BY	SCALE	EQU.
1	01-09-98	DLW	N/A	EQU-6
2	05-28-02	DWG		
3	9-14-07	BAG		



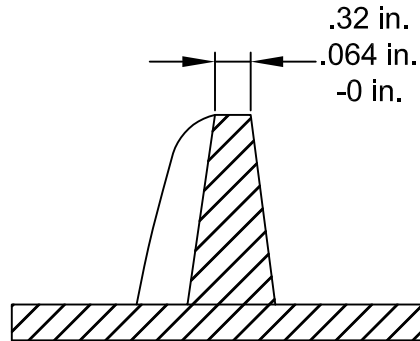
PA DEPARTMENT OF TRANSPORTATION

REVISIONS			PennDOT SPREADER AUGER DETAIL (S/S & RUBBER THROUGH)			
NO.	DATE	BY	DRAWN BY	SCALE	N/A	EQN-6
1	01-09-98	DLW				
2	05-28-02	DWG	DLW			
3	9-20-07	BAG	DLW	01-09-98	WHM	SHEET 2 OF 3



.125 in. THICK PLATE WASHERS CONTINUOUS WELDED TO STUB SHAFT AND AUGER PIPE

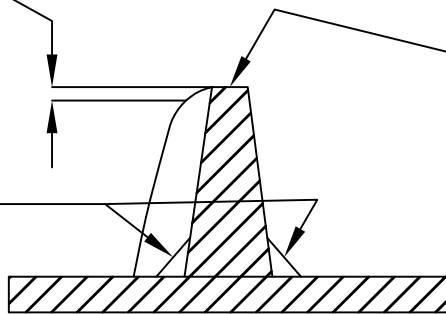
WASHERS TO FIT I.D. OF PIPE WITH CLOSE SLIDING FIT SO NO FLEXING OF SHAFT EXISTS AFTER FINAL WELDING



FLITING THICKNESS SPECIFICATION (BEFORE HARDSURFACING)

.125 in. (MINIMUM) HARDSURFACE

CONTINUOUS WELD BOTH SIDES OF FLITING

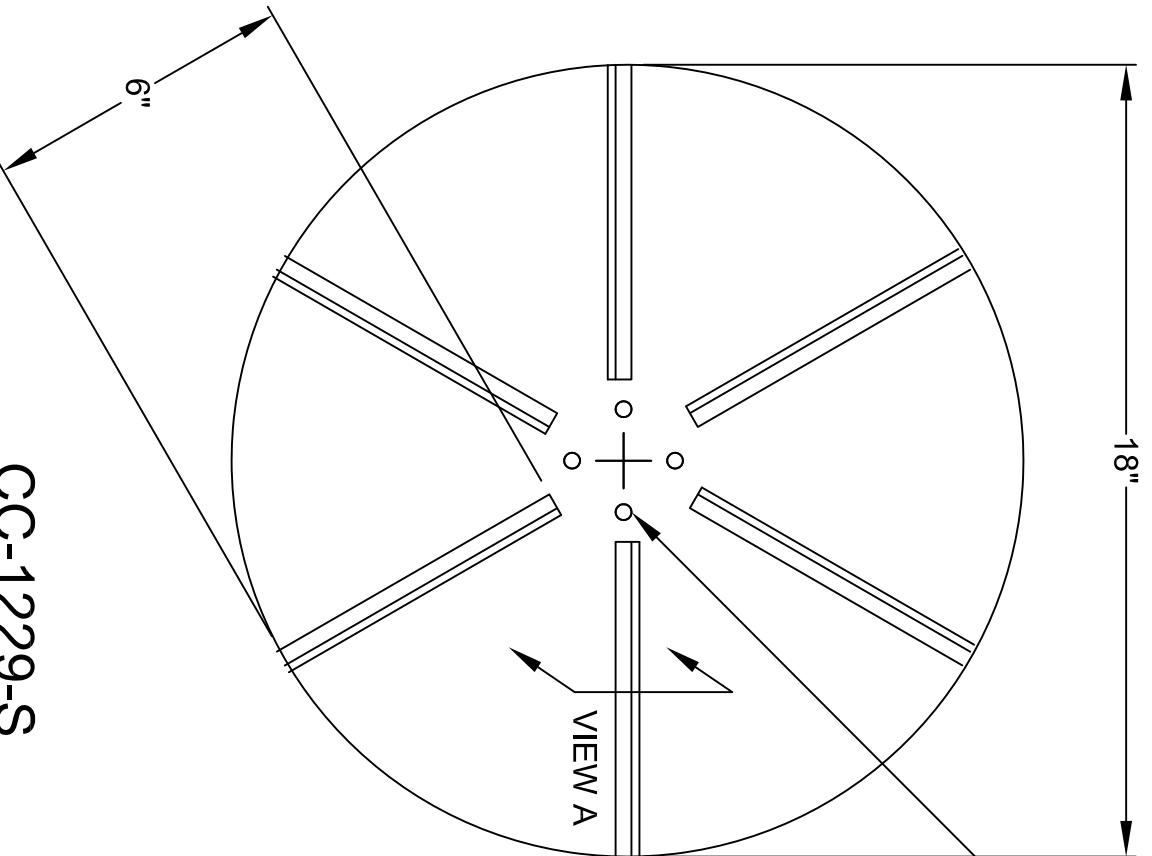


OUTER FLITE PERIPHERY CONTINUOUSLY HARDSURFACED WITH ABRASIVE RESISTANCE WELDING ROD (OR WIRE) EQUIVALENT TO STUDY 121 (ROCKWELL HARDNESS C-44), AND TO BE FULL WIDTH OF FLITING THICKNESS AT OUTEREDGE

WELDING AND HARDSURFACE SPECIFICATION

PA DEPARTMENT OF TRANSPORTATION

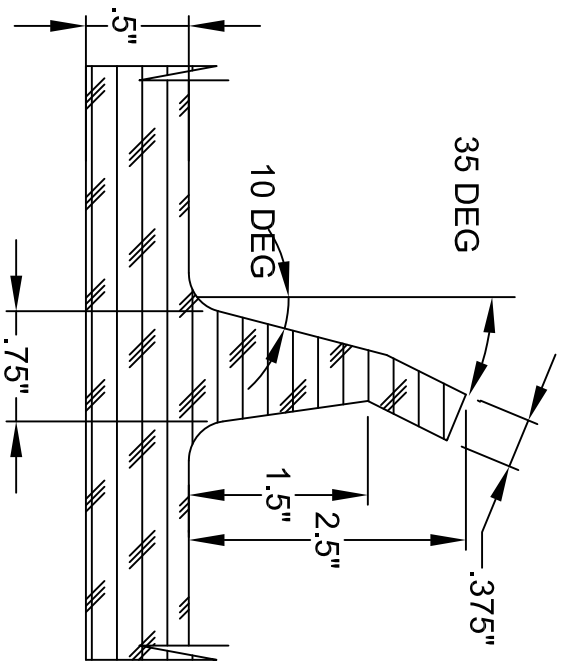
REVISIONS			PennDOT SPREADER AUGER DETAIL (S/S & RUBBER THROUGH)			
NO.	DATE	BY	DRAWN BY	SCALE		
1	1-09-98	DLW				
2	05-28-02	DWG	DLW	N/A	EQN-6	
3	09-20-07	BAG	01-09-98	WHM	SHEET 3 OF 3	



CC-1229-S

.375 Dia. HOLE REINFORCED WITH STEEL WASHERS (4) PLACES ON 4" B.C.

- NOTES:
1. MATERIAL 80 DURO. URETHANE
 2. WEIGHT 8.1 lbs. PER PIECE
 3. ROTATION: COUNTER CLOCKWISE
 4. ALL DIMENSIONS IN INCHES.



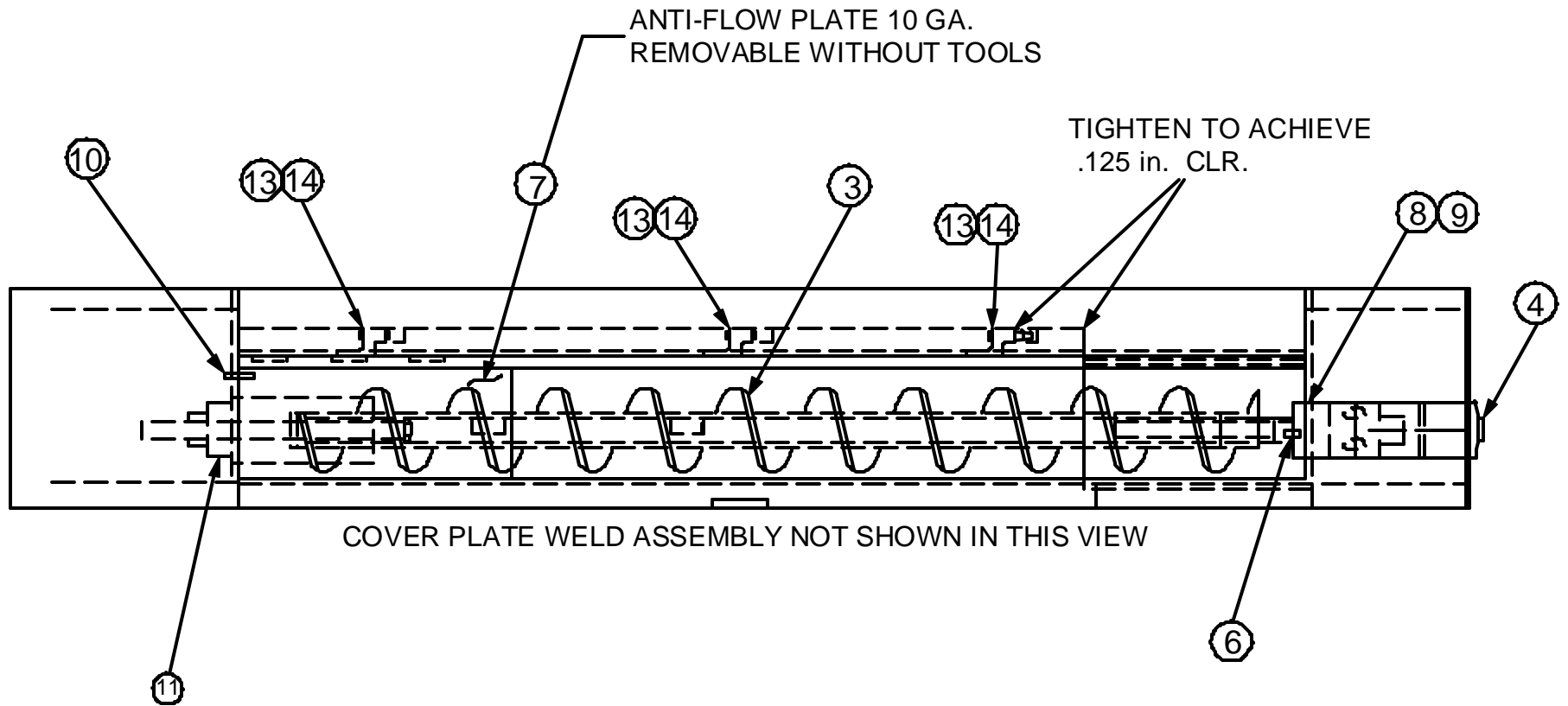
PA DEPARTMENT OF TRANSPORTATION

REVISIONS		SPINNER / SPREADER TAILGATE URETHANE	
NO.	DATE	BY	SCALE
1	06-03-02	DWG	
2	05-23-07	CJW	N/A
3			

DLW EQN-9B
WHM SHEET 1 OF 1

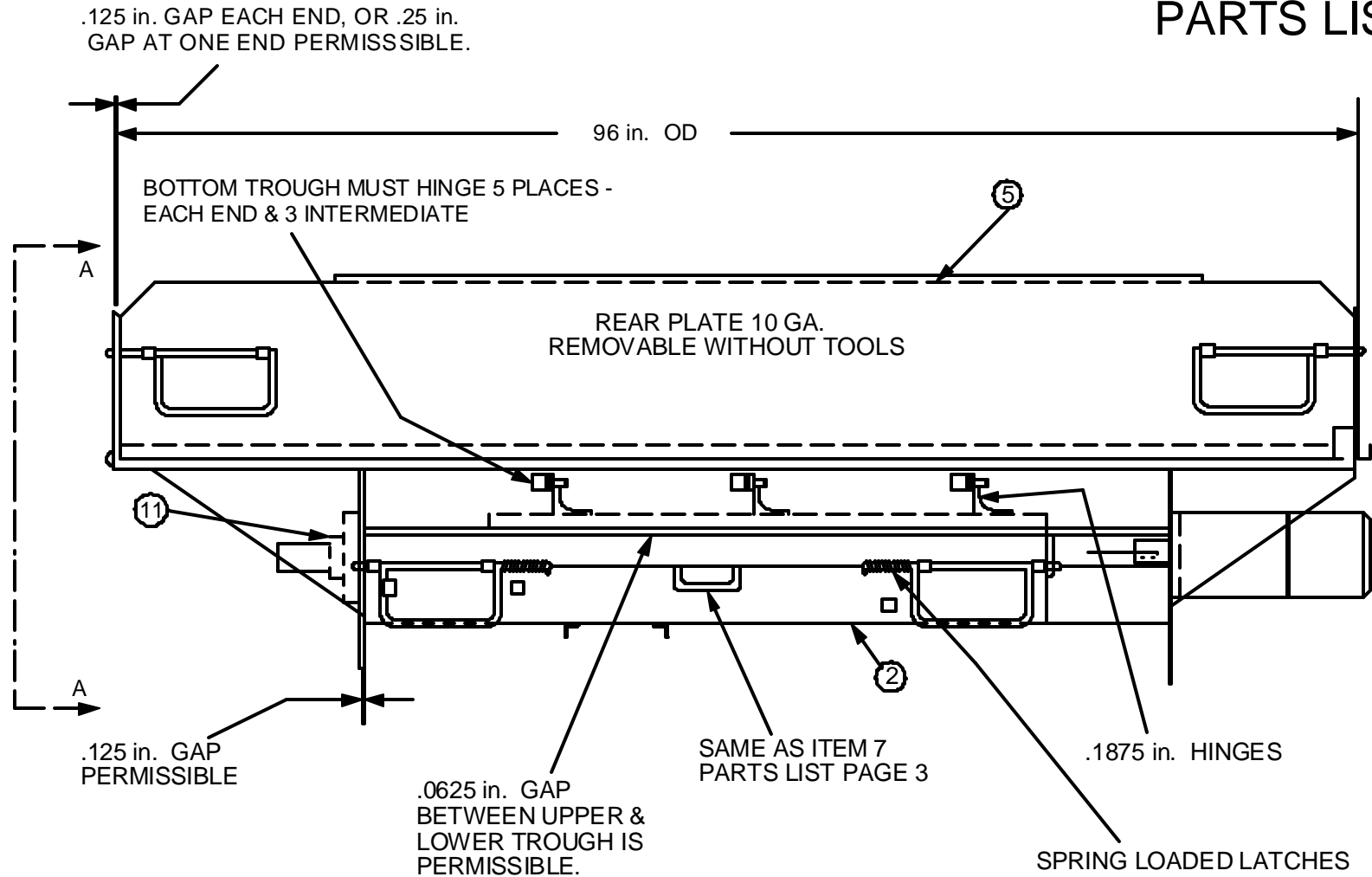
C.U.E. Inc
11 Leonberg Township
16066 U.S.A.

PARTS LIST A



REVISIONS			COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION			
NO.	DATE	BY	DRAWN BY		SCALE	MATERIAL
1	01/10/96	SWW	DLW		N / A	EQN-9 SHEET 1 OF 5
2	02/03/98	DLW	DLW			
3	06/03/02	DWG	DLW			
4			CHKD	WHM	DATE 02/03/98	
5						

PARTS LIST A

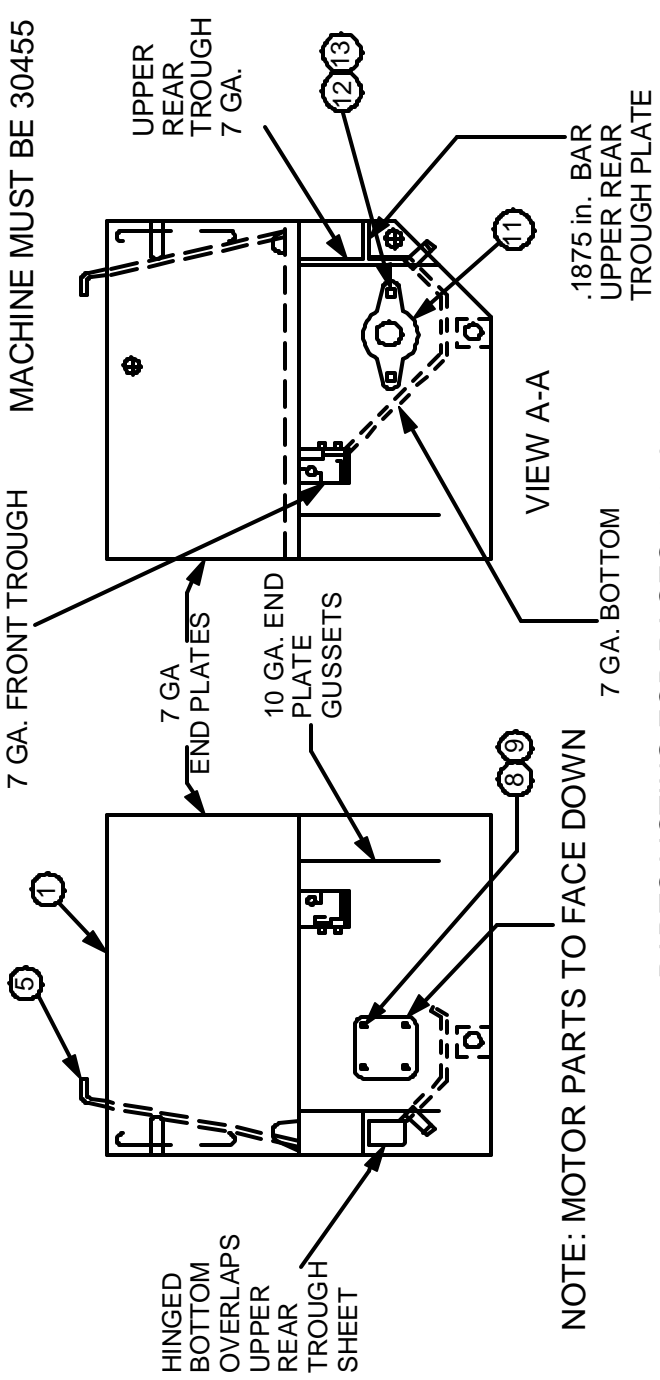


NOTE:

OVERALL HEIGHT AND DEPTH 18 in.
 INSIDE TROUGH WIDTH OPENING 81 in.
 + or - .50 in.

REVISIONS			COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION			
NO.	DATE	BY	STAINLESS STEEL SPREADER WITH QUICK DISCONNECT SPINNER			
1	01/10/96	SWW				
2	02/03/98	DLW				
3	06/03/02	DWG	DRAWN BY	DLW	SCALE	N / A
4			CHKD	WHM	DATE	02/03/98
5						
					MATERIAL	
					DRW NO.	EQN-9
					SHEET 2 OF 5	

PARTS LIST A

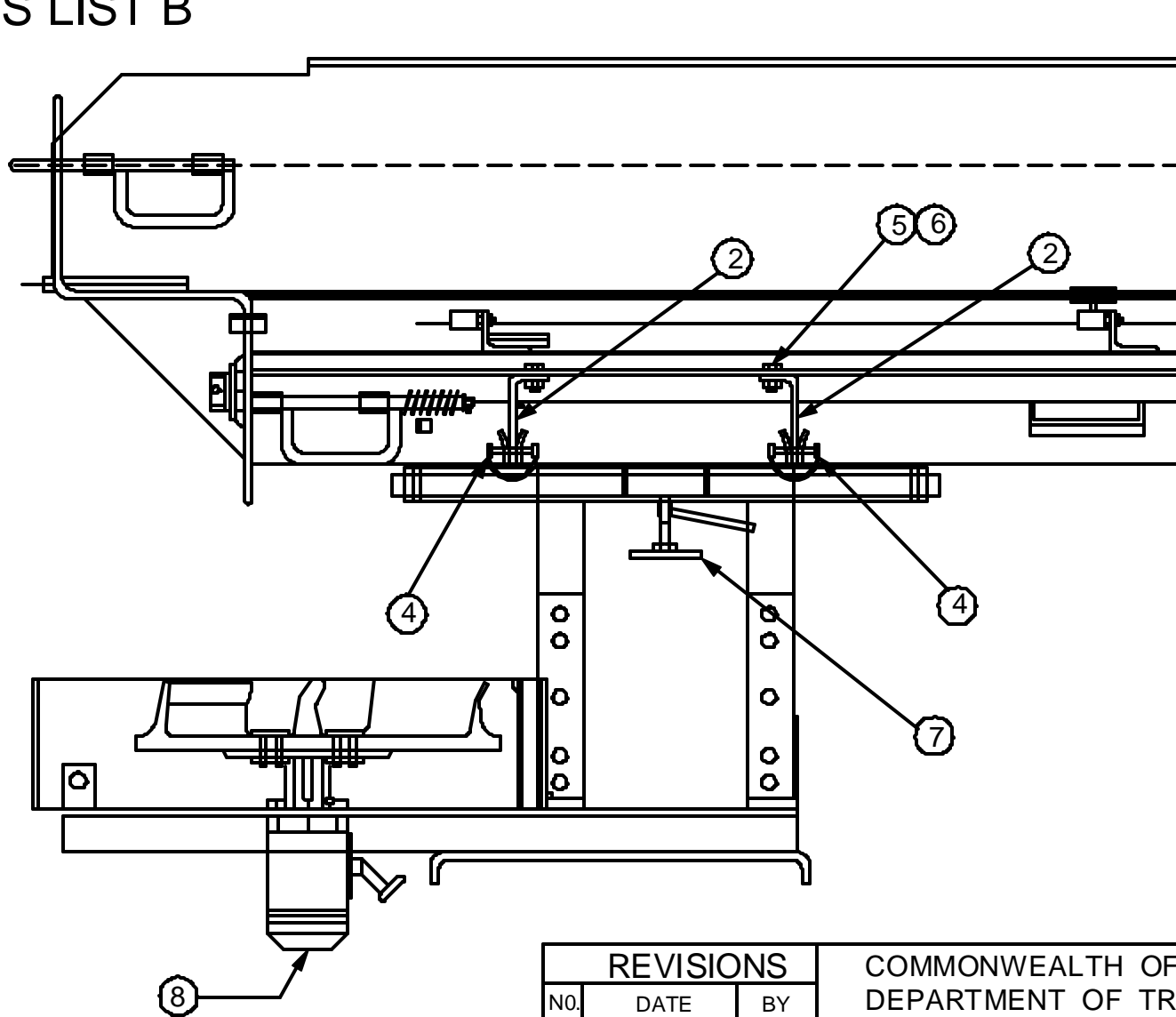


PARTS LISTING FOR PAGES 1, 2, & 3.

PARTS LIST A	
ITEM	QTY. NAME
2	1 LOWER TROUGH ASSEMBLY
3	1 AUGER ASSEMBLY
4	1 AUGER MOTOR
5	1 COVER PLATE ASSEMBLY
6	1 SOCHD CUP PT SET SCR .3125 in. - 18 NC x .25 in.
7	1 GATE OPENING BAFFLE WELD ASSEMBLY
8	4 HEX HEAD CAP SCREW .375 in. - 16 NC x .75 in.
9	4 LOCK WASHER .375 in.
10	1 HAIRPIN COTTER (.20 in. x 1.875 in.)
11	1 FLANGED BALL BEARING UNIT 2 BOLT MOUNTING 1.25 in.
12	3 HEX HEAD CAP SCREW (.375 in. - 16 NC x 1.50 in.)
13	6 HEX HEAD LOCK NUT (.375 in. - 16 NC - GRIPCO)
14	3 HEX HEAD CAP SCREW (.375 in. - 16 NC x 1 in.)

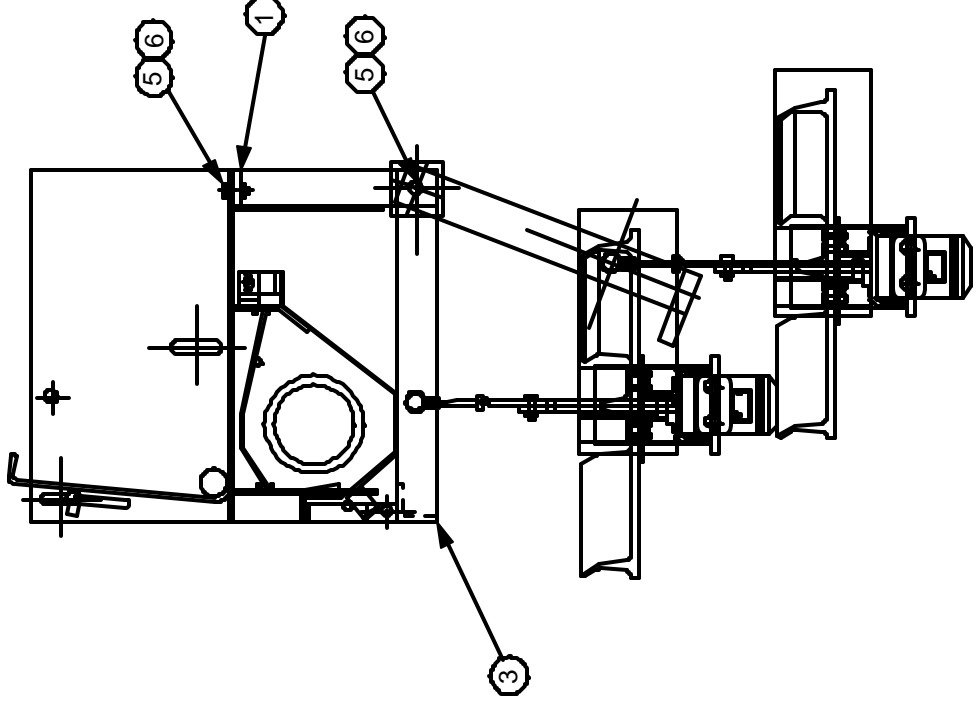
REVISIONS		COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION	
NO.	DATE	BY	
1	01/10/96	SWW	STAINLESS STEEL SPREADER WITH QUICK DISCONNECT SPINNER
2	02/03/98	DLW	
3	06/03/02	DWG	DRAWN BY DLW SCALE N/A MATERIAL
4		CHKD WHM	DATE 02/03/98
5			DRW NO. EQN-9 SHEET 3 OF 5

PARTS LIST B



SPINNER MUST HINGE DOWN SEPARATELY FROM BOTTOM TROUGH. ALL BRACKETS MUST BE BOLTED TO SPREADER AND PINS MUST BE ATTACHED WITH CHAINS.

REVISIONS			COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION				
NO.	DATE	BY	STAINLESS STEEL SPREADER WITH QUICK DISCONNECT SPINNER				
1	01/10/96	SWW					
2	02/03/98	DLW					
3			DRAWN BY	DLW	SCALE	N / A	MATERIAL
4			CHKD	WHM	DATE	02/03/98	DRW NO.
5							EQN-9
							SHEET 4 OF 5



PARTS LISTING FOR PAGES 4.

ITEM QTY.		NAME
1	1	FRONT BRACKET WELD ASSEMBLY (SHOWN 5 OF 5)
2	2	REAR CLIP
3	1	HANGER - HINGE WELD ASSEMBLY
4	1	SAFETY SNAP PIN
5	6	.50 in. - 13 NC LOCKNUT GRIPCO SS
6	6	.50 in. - 13 NC x 1.25 in. LG HEX HEAD CAP SCREW SS
7	1	.50 in. ROUND STOCK SS (HANDLE)
8	1	SPINNER MOTOR
9	1	SPINNER REF: EQN-9B

PARTS LIST B

REVISIONS		COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION	
NO.	DATE	BY	
1	01/10/96	SWW	STAINLESS STEEL SPREADER WITH QUICK DISCONNECT SPINNER
2	02/03/98	DLW	
3	06/03/02	DWG	DRAWN BY DLW SCALE N/A MATERIAL
4		CHKD	DATE 02/03/98
5			DRW NO. EQN-9 SHEET 5 OF 5

DRIVE BEARINGS:

THE FOLLOWING SHALL INDICATE MINIMUM REQUIREMENTS INCLUDING ALL GENUINE PARTS, ACCESSORIES, EQUIPMENT, AND SAFETY FEATURES CONSIDERED STANDARD, WHETHER MENTIONED HEREIN OR NOT. THE VEHICLE SHALL COMPLY WITH ALL CURRENT APPLICABLE FEDERAL SAFETY STANDARDS AND OSHA REQUIREMENTS.

THE PURPOSE OF THESE SPECIFICATIONS IS TO DESCRIBE A BEARING CAPABLE OF BEING USED ON OUR TAILGATE SPREADERS.

UNLESS OTHERWISE SPECIFIED, EACH UNIT SHALL INCLUDE ALL SPECIFIED PARTS, MADE AVAILABLE FOR THE INDICATED MODEL BY THE EQUIPMENT MANUFACTURER.

SPECIFIED ITEMS NOT AVAILABLE THROUGH THE EQUIPMENT MANUFACTURER SHALL CONFORM TO THE BEST QUALITY STANDARDS KNOWN TO THAT PARTICULAR INDUSTRY.

EACH UNIT SHALL BE CLEAN, LUBRICATED, AND SERVICED READY FOR IMMEDIATE OPERATION.

PERFORMANCE:

THE PROPOSED UNIT SHALL BE IDENTICAL WITH THE STANDARD OR IMPROVED MODEL AND A CURRENT PRODUCTION UNIT IN USE BY THE INDUSTRY FOR THE PAST TWELVE MONTHS PRECEDING THIS BID OPENING.

IT SHALL BE THE RESPONSIBILITY OF THE BIDDER TO ASSURE THAT THE PROPOSED EQUIPMENT CONFORMS TO THE SPECIFICATIONS AND PERFORMS SATISFACTORILY ACCORDING TO THESE SPECIFICATIONS.

GRADE:

REFERENCE:AMERICAN FRICTION BEARING MANUFACTURERS ASSOCIATION #1, PRECISION

TYPE:

SELF-ALIGNING, ANTI-FRICTION, THRUST, RE-LUBE TYPE.

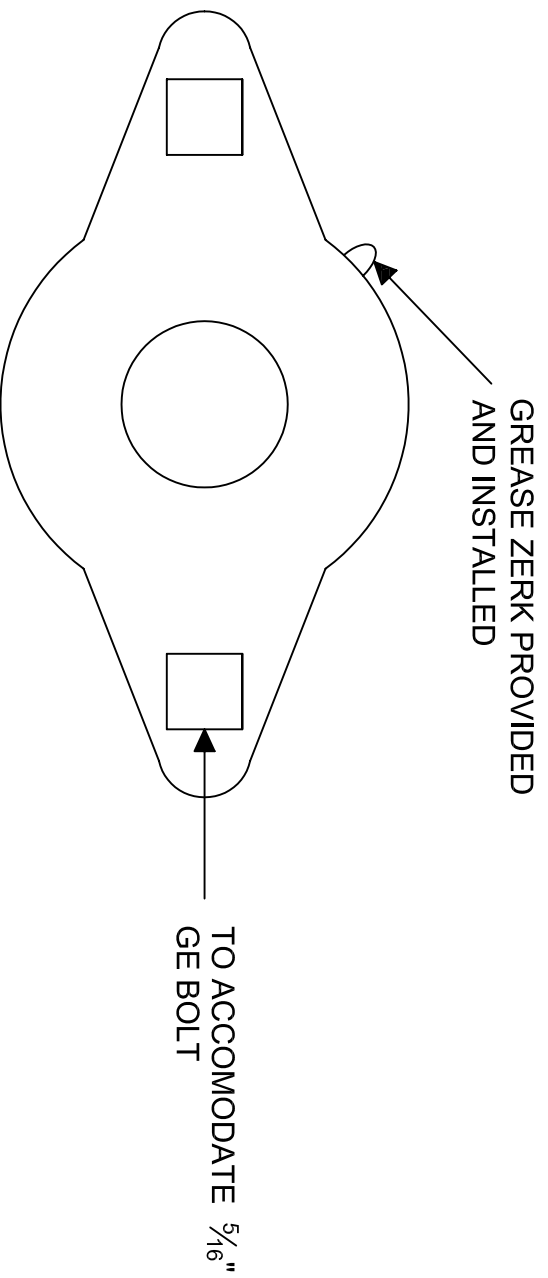
MOUNTING:

2 BOLT UNIT FLANGED UNIT TYPE. SEE DRAWING.

PA DEPARTMENT OF TRANSPORTATION			
REVISIONS		SPREADER BEARING INFORMATION	
NO.	DATE	BY	
1		KNH	
2			
3			

DRAWN BY	BAG	SCALE	N/A	EQN-#	10A
DATE	01-08-08	CHKD BY	DMA	SHEET	1 OF 2

MOUNTINGS:
 2 BOLT (SQUARE HOLES) FLANGED UNIT TYPE. SEE DRAWING.



SHAFT DIAMETER: 1"

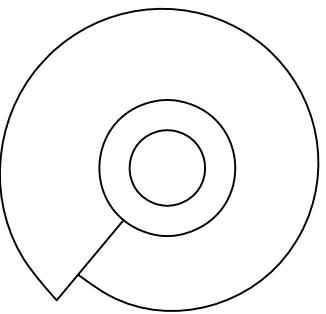
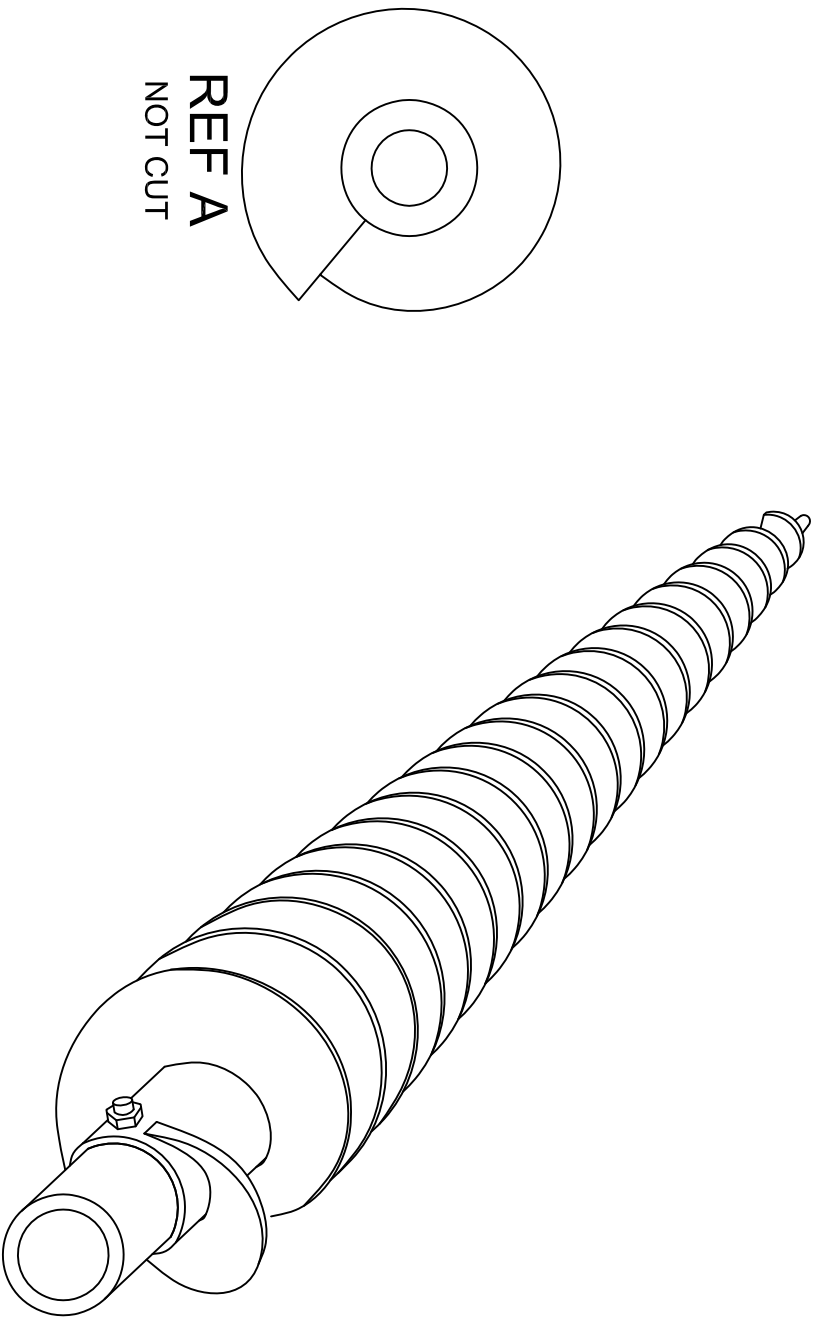
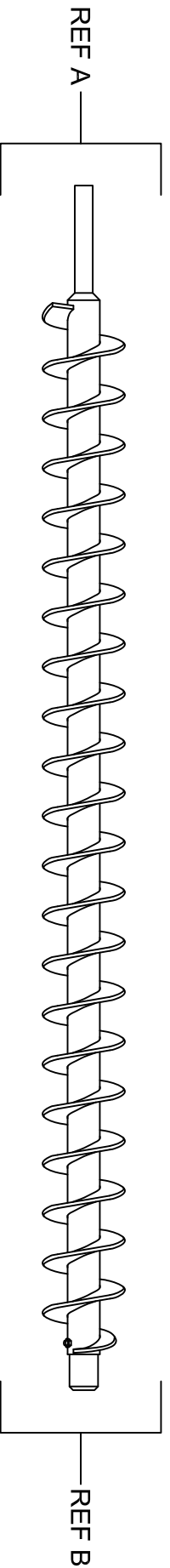
LOCKING: RETAINING COLLAR SHALL BE ECCENTRIC WITH SET SCREW.

HOUSING: CASE, DUCTILE OR MALLEABLE IRON.

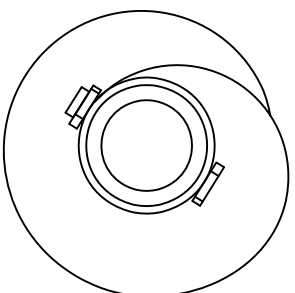
REFERENCE: SST MODEL #SAFTD-205-166-Q, IPTCI MODEL SALF205 16H4 OVEQUAL

NOTE: ALL SET SCREWS HOLDING BEARING COLLARS SHALL BE TREATED WITH LOCKTITE AND PROPERLY TORQUED.

PA DEPARTMENT OF TRANSPORTATION			
REVISIONS			SPREADER BEARING INFORMATION
NO.	DATE	BY	
1		KNH	
2			
3			
DRAWN BY		BAG	EQU-# 10A
DATE		01-08-08	SCALE N/A
CHECKED BY		DMA	SHEET 2 OF 2



REF A
NOT CUT



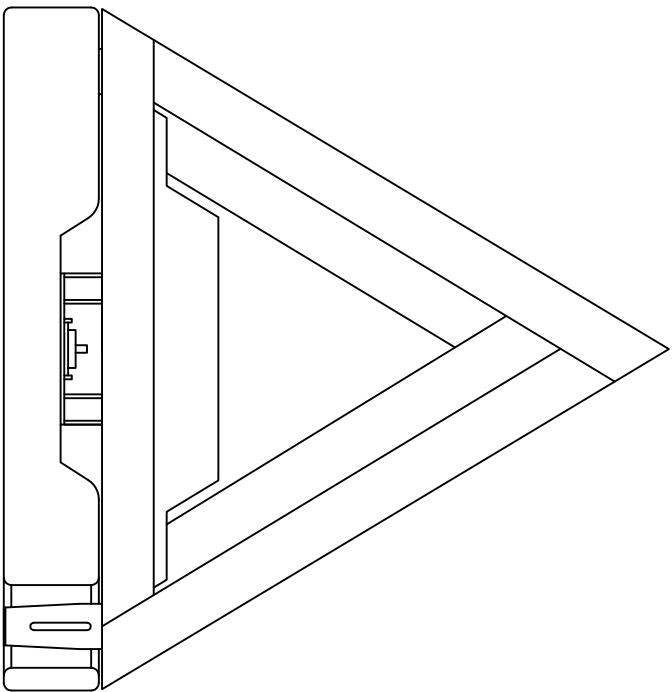
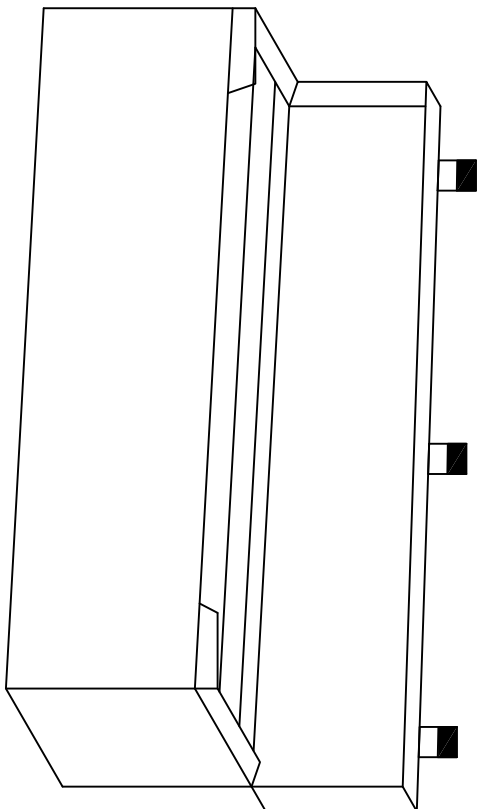
REF B
BEVEL CUT ON MOTOR
SIDE OF AUGER

PA DEPARTMENT OF TRANSPORTATION

REVISIONS			BEVEL CUT AUGER		
NO	DATE	BY			
1					
2					
3					

DRAWN BY		HMR	SCALE	N/A	EQN-29
DATE		08-08-17	CHG'D BY		SHEET 1 OF 1

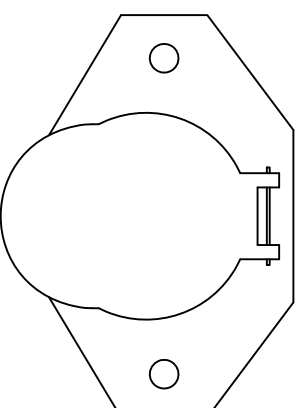
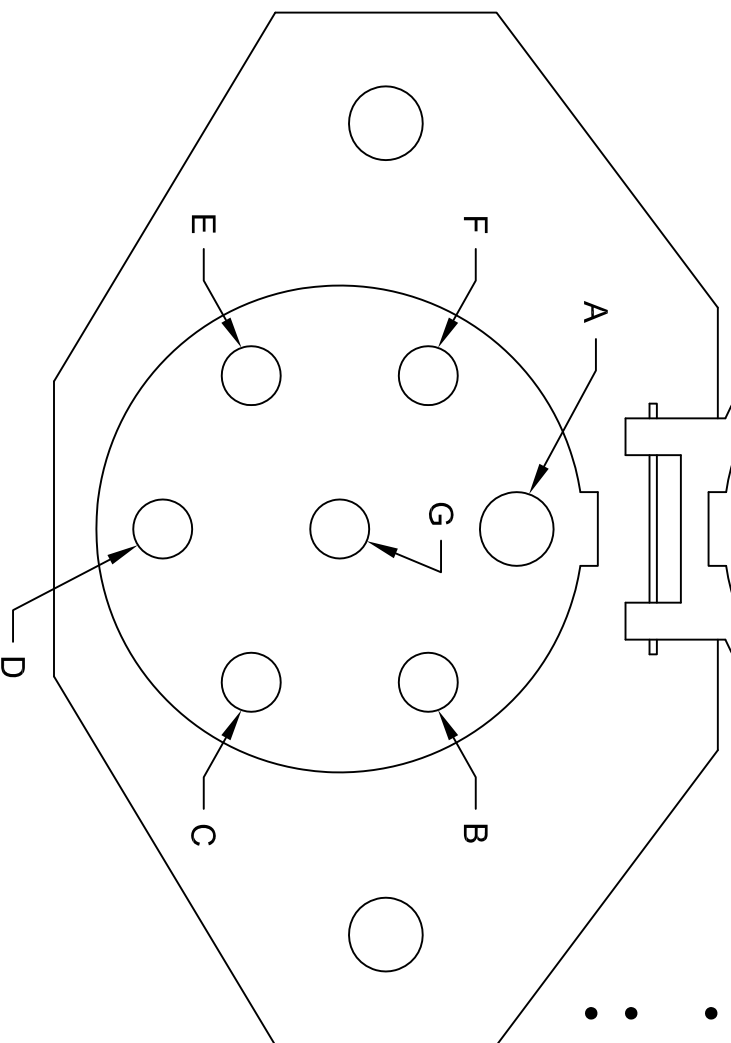
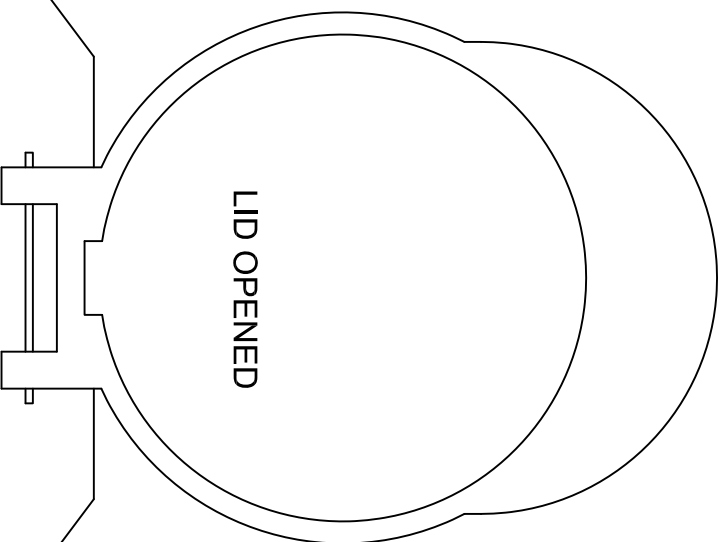
JAMES KING & CO.
 TRIANGLE PART #1005
 OR APPROVED EQUAL



PA DEPARTMENT OF TRANSPORTATION

REVISIONS			DRAWN BY		
NO.	DATE	BY	SCALE	DATE	SHEET
1	05-31-07	KNH	W/HM	04-23-92	1 OF 1
2	07-20-09	TOD	N/A	RED	EQN-66A
3	07-13-17	HMR			

**TRIANGLE STORAGE BOX AND
 BRACKET**



LID CLOSED

NOTES:

- VIEW OF FEMALE CONNECTOR, STANDING AT REAR OF TRUCK, LOOKING AT THE CONNECTOR.
- BRAKE LIGHTS SHALL FUNCTION WITH TURN SIGNALS.
- WIRE SHALL BE 7 WAY (1-10 GAUGE; 6-12 GAUGE) PER ATA COLOR CODE, CLAMPED EVERY 18" MINIMUM.
- CONNECTION SHALL BE MADE USING FACTORY OEM TRAILER WIRING HARNESS.
- ALL CONNECTIONS SHALL BE WATER TIGHT.
- ALL PINS SHALL BE ROUND STYLE.

WIRING NOTES:

- A. WHITE: GROUND - 10
- B. BLACK: MARKER -12
- C. YELLOW: LEFT TURN & BRAKE - 12
- D. RED: STOP / BRAKE -12
- E. GREEN: RIGHT TURN & BRAKE - 12
- F. BROWN: TAIL - 12
- G. BLUE: ABS -12

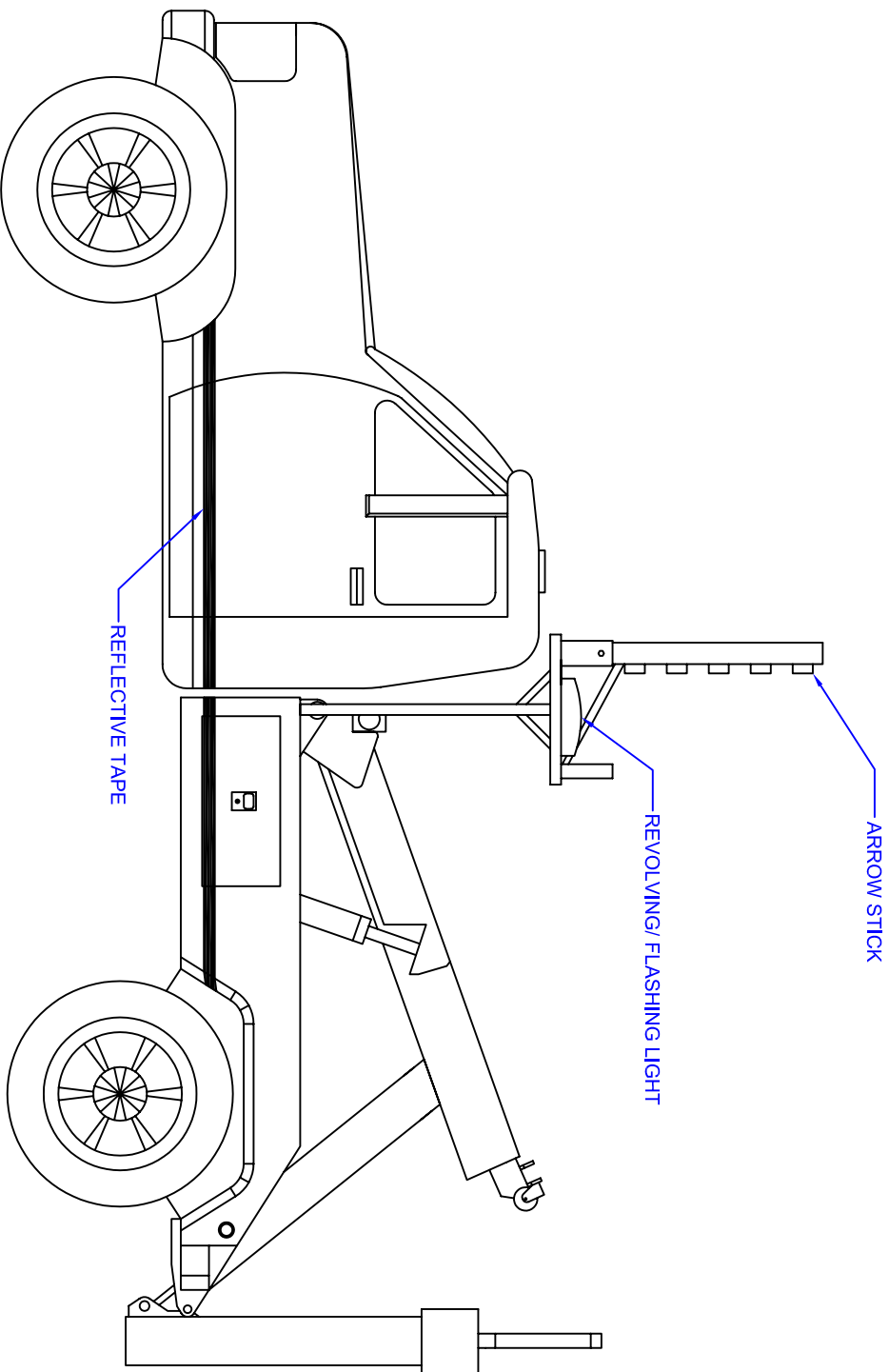
PA DEPARTMENT OF TRANSPORTATION

REVISIONS

NO.	DATE	BY	DESCRIPTION
1	08-02-18	KBD	WIRING DIAGRAM / 7 WAY ROUND PIN FEMALE CONNECTOR
2			
3			

WIRING DIAGRAM / 7 WAY ROUND
PIN FEMALE CONNECTOR

DRAWN BY	JJB	Checked With	
DATE	08-02-16	CHKD BY	Scale
			EQN-80A
			SHEET 1 OF 1



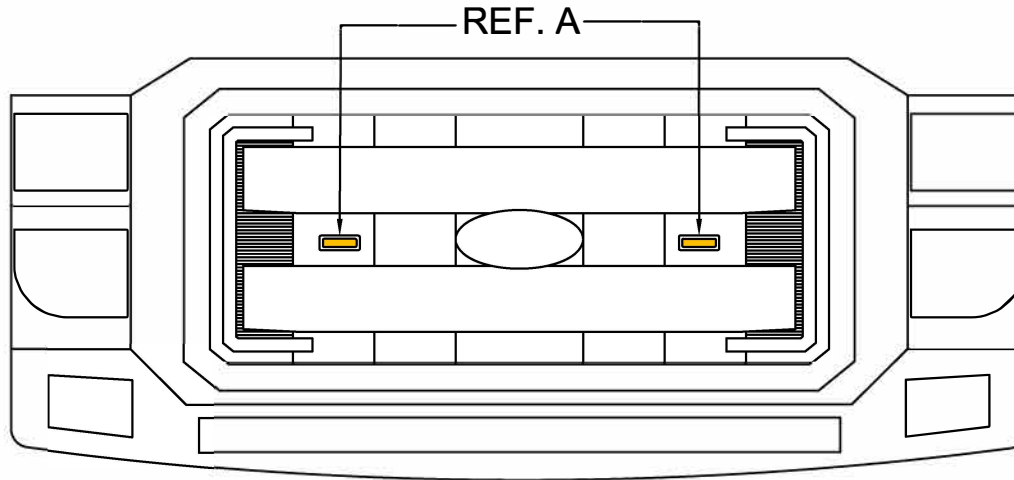
PA DEPARTMENT OF TRANSPORTATION

TOWTRUCK 17,500 LBS

REVISIONS			
NO.	DATE	BY	
1	07-17-07	BAG	
2	08-07-08	MHH	
3			

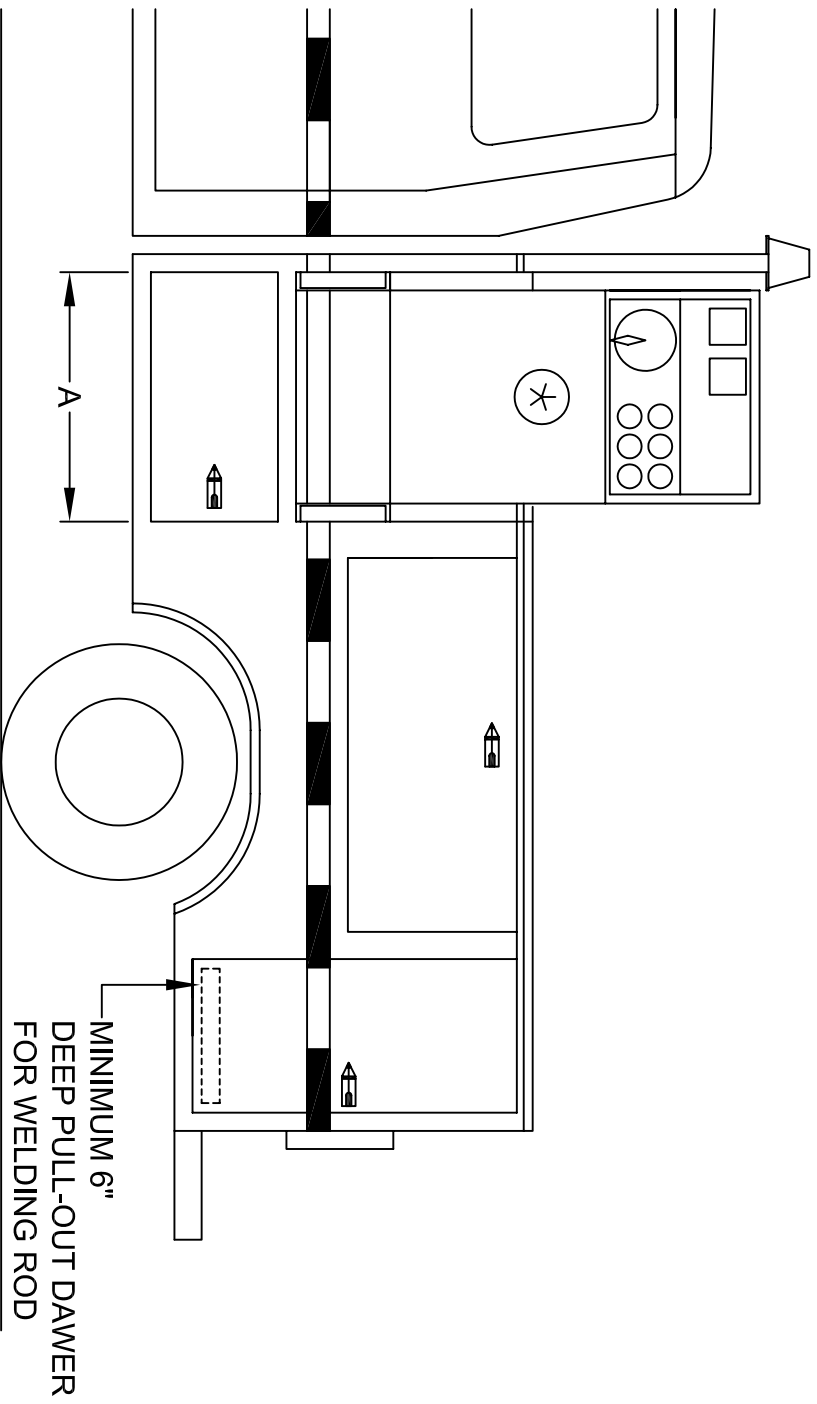
DATE	DRAWN BY	SCALE	EQN-104
08-25-98	DJA	N/A	
	CHK'D BY	WHM	SHEET 1 OF 3

CREW CAB FRONT VIEW



A. MODEL # IONAD LIGHTS SHALL BE GROMMET MOUNTED ON THE GRILL. LIGHTS MOUNTED BEHIND GRILL ARE UNACCEPTABLE.

PA DEPARTMENT OF TRANSPORTATION				
REVISIONS			CREW CAB GRILL LIGHT FIXTURES	
NO.	DATE	BY		
1				
2			DRAWN BY MJW	SCALE N/A
3			DATE 07-03-12	CHK'D BY EQN-115
				SHEET 1 OF 1



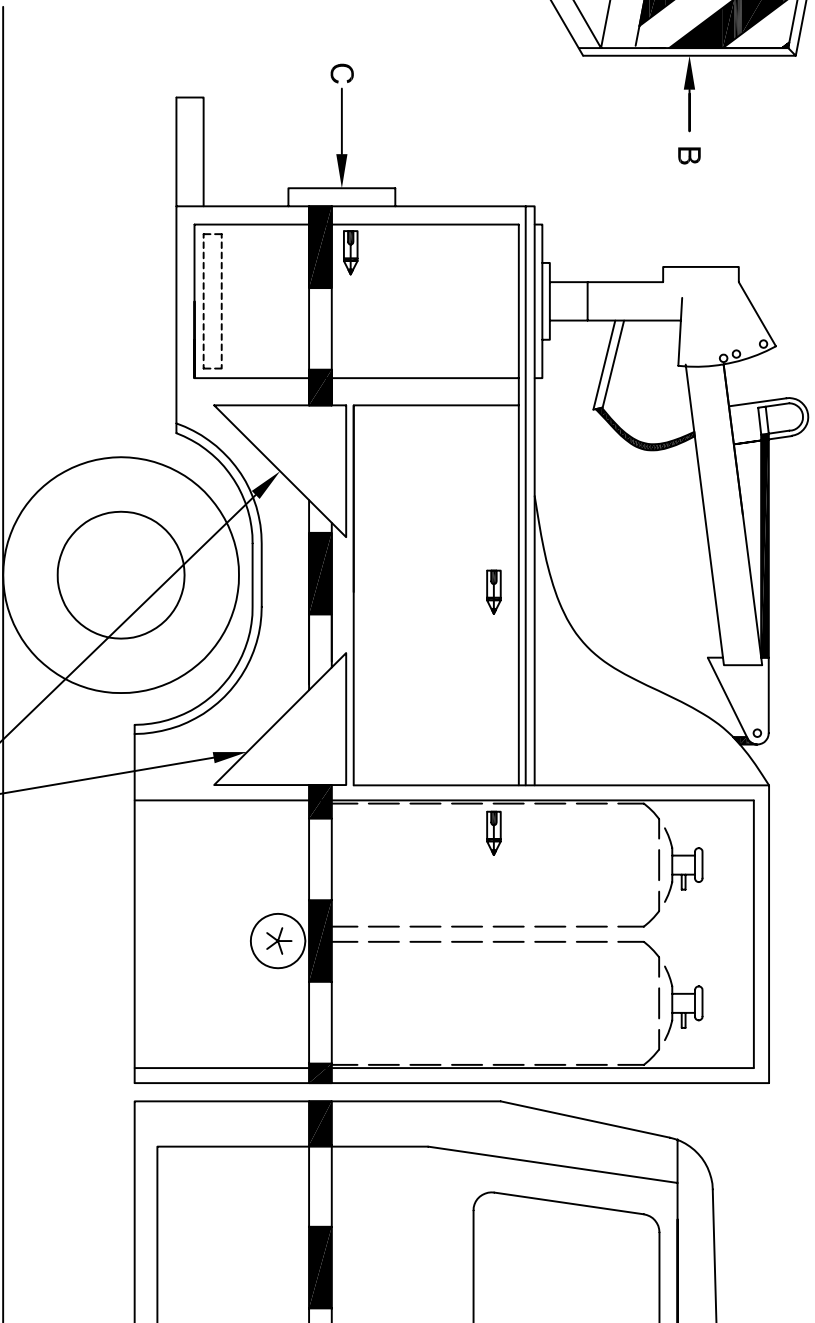
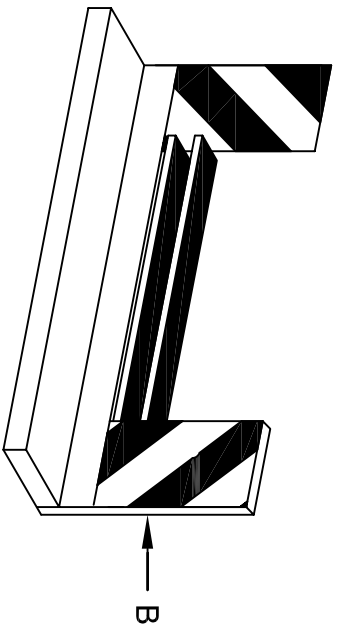
⊗ WELDER NOT INCLUDED IN SPEC.

- A) AREA SHALL BE OF SUFFICIENT SIZE AND MOUNTING TO ACCOMMODATE
- A MILLER BIG BLUE 50D OR A
- HOBART MEGA-ARC-4030D

PA DEPARTMENT OF TRANSPORTATION

REVISIONS			WELD BODY STEEL		
NO.	DATE	BY	SCALE	DRAWN BY	DATE
1	05-09-03	PJC	N/A	DLW	03-02-98
2	03-07-07	CJW	N/A	DLW	03-02-98
3	09-28-11	TOD	N/A	DLW	03-02-98

NO.	DATE	BY	SCALE	DRAWN BY	DATE
1	05-09-03	PJC	N/A	DLW	03-02-98
2	03-07-07	CJW	N/A	DLW	03-02-98
3	09-28-11	TOD	N/A	DLW	03-02-98



BUMPER SHALL BE A MINIMUM OF 15" DEEP X THE WIDTH OF THE VEHICLE.

⊗ BOTTLES NOT INCLUDED IN SPEC

CHOCK STORAGE

B - REFLECTIVE SHEETING TO BE 4 INCHES IN WIDTH AND ALTERNATE RED / YELLOW BANDS SPACED EVENLY ON REAR OF BODY. TAPE SHALL BE REFLEXITE DAYBRIGHT V92 CONSPICUITY SHEETING, RED - SRH14R, YELLOW - SRH14Y. INSTALLED.

C - MATERIAL SHALL BE RED/SILVER CONTINUOUS BACKING REFLEXITE CONSPICUITY 11 SYSTEM OR 3M SCOTCHLITE CONSPICUITY SHEETING SERIES 980.

PA DEPARTMENT OF TRANSPORTATION

REVISIONS

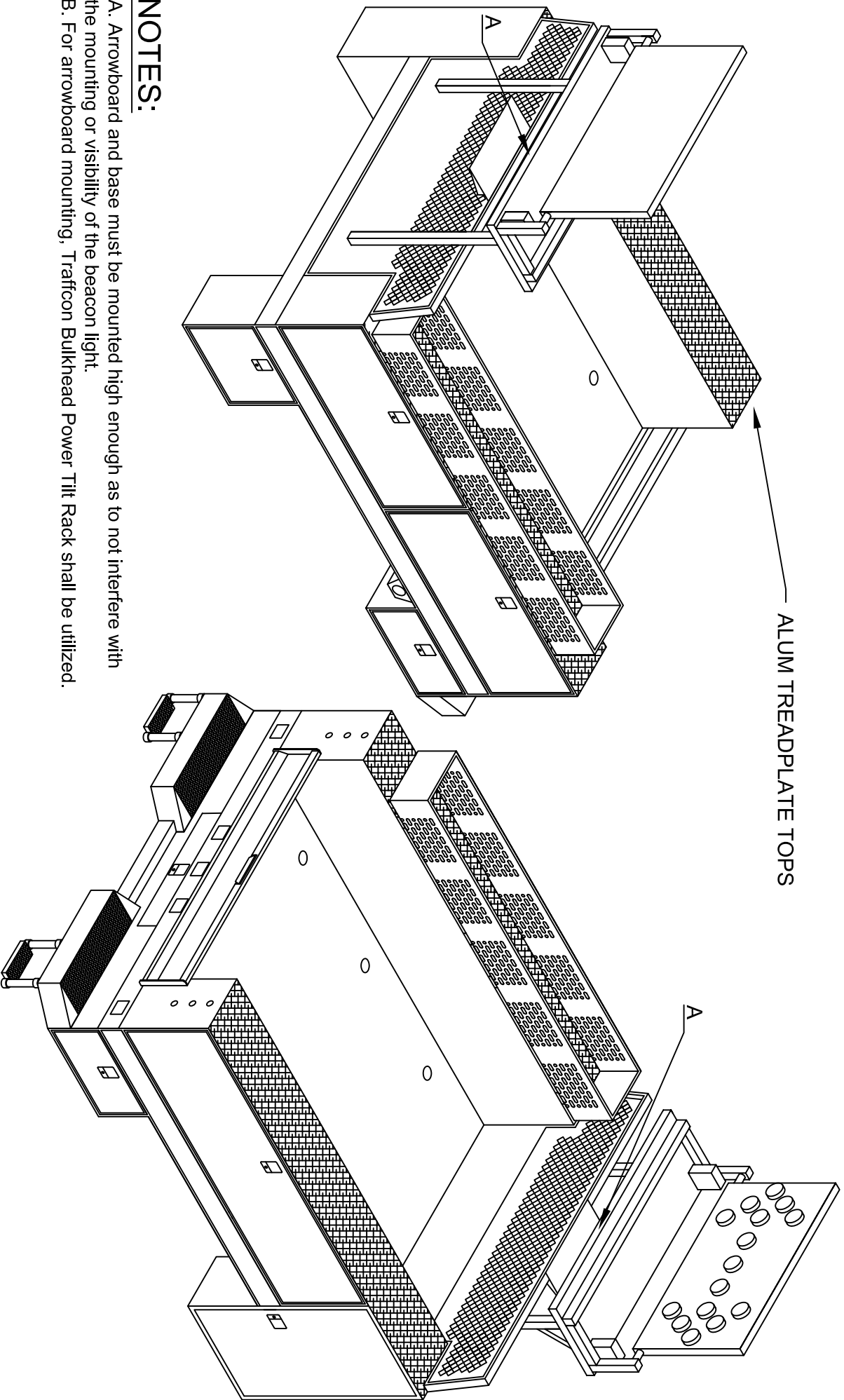
NO.	DATE	BY	WELD BODY STEEL
1	05-09-03	PJC	
2	03-07-07	CJW	
3	09-28-11	TOD	

NO.	DATE	BY	WELD BODY STEEL
1	05-09-03	PJC	
2	03-07-07	CJW	
3	09-28-11	TOD	

NO.	DATE	BY	WELD BODY STEEL
1	05-09-03	PJC	
2	03-07-07	CJW	
3	09-28-11	TOD	

NO.	DATE	BY	WELD BODY STEEL
1	05-09-03	PJC	
2	03-07-07	CJW	
3	09-28-11	TOD	

NO.	DATE	BY	WELD BODY STEEL
1	05-09-03	PJC	
2	03-07-07	CJW	
3	09-28-11	TOD	



ALUM TREADPLATE TOPS

NOTES:

- A. Arrowboard and base must be mounted high enough as to not interfere with the mounting or visibility of the beacon light.
- B. For arrowboard mounting, Traffcon Bulkhead Power Tilt Rack shall be utilized.

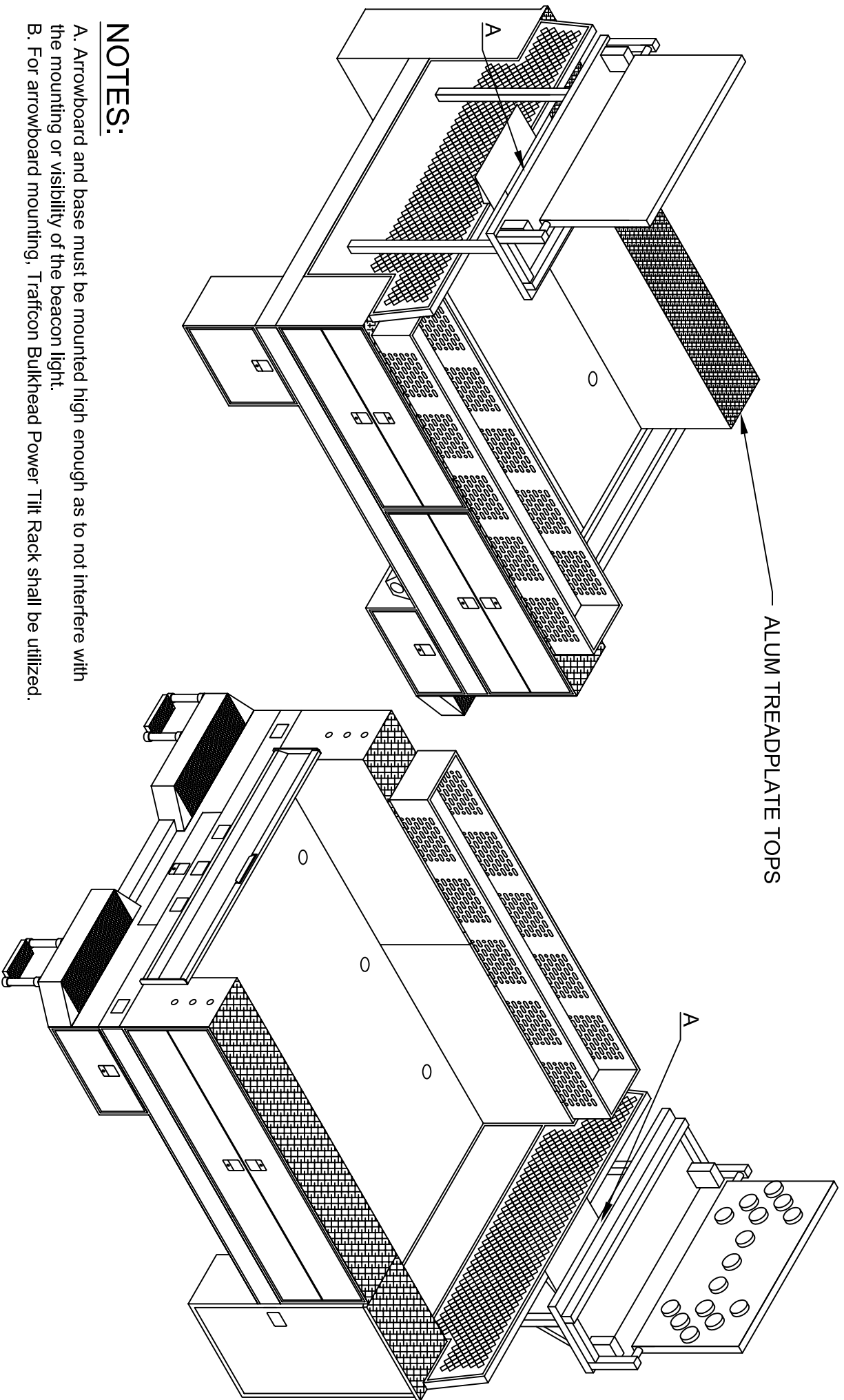
PA DEPARTMENT OF TRANSPORTATION

REVISIONS

NO.	DATE	BY	ACT	SCALE	DATE
1	08-26-14	ACT			
2					
3					

FOREMAN BODY

DRAWN BY	MJW	SCALE	N/A	EQN-120H
DATE	08-02-12	CHKD BY		SHEET 1 OF 1



NOTES:

- A. Arrowboard and base must be mounted high enough as to not interfere with the mounting or visibility of the beacon light.
- B. For arrowboard mounting, Trafficon Bulkhead Power Tilt Rack shall be utilized.

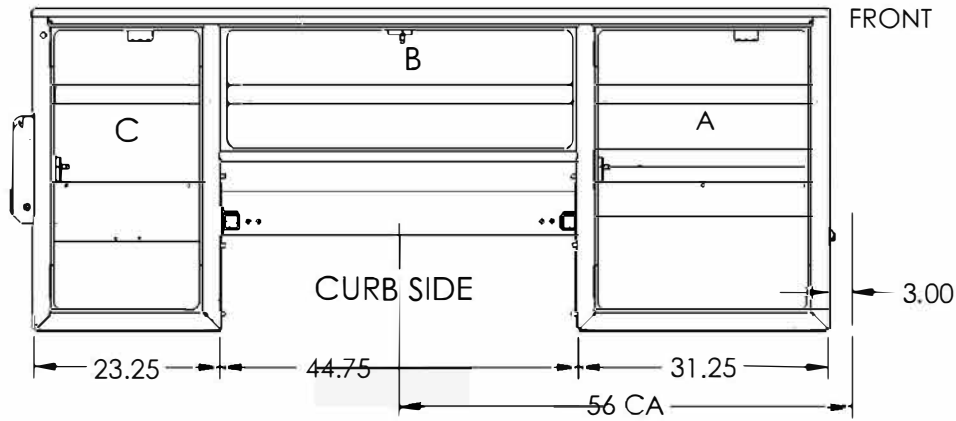
PA DEPARTMENT OF TRANSPORTATION

REVISIONS

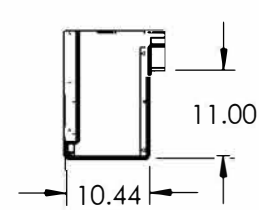
NO.	DATE	BY	ACT	SCALE	CHGD BY
1	08-26-14	ACT		N/A	
2					
3					

**SPLIT DOOR
FOREMAN BODY**

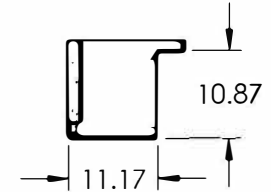
DRAWN BY	MJW	DATE	08-02-12
EQU-120HS			
SHEET 1 OF 1			



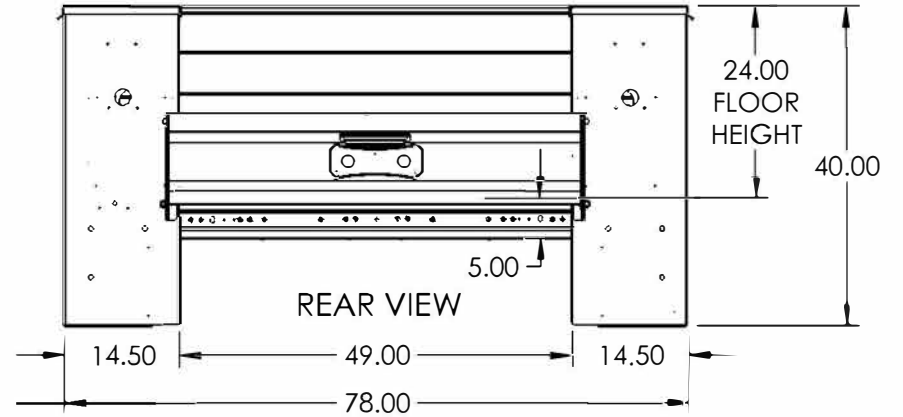
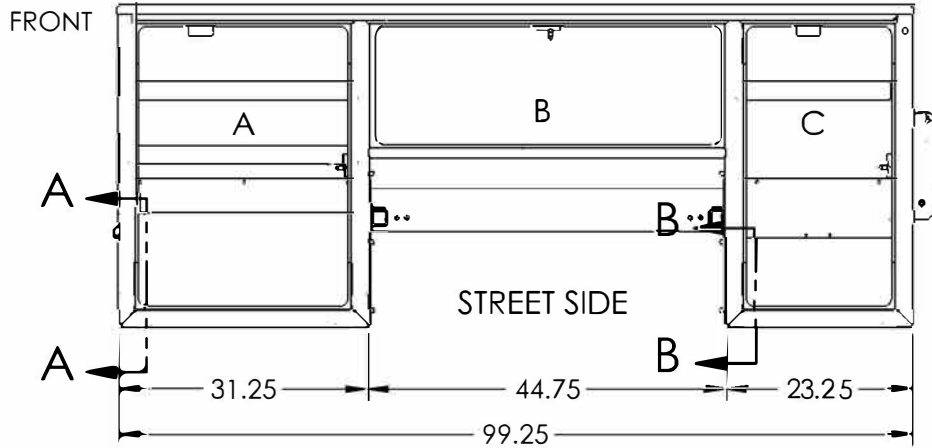
CLEAR DOOR OPENING			
	A	B	C
WIDTH	26.18	43.25	18.18
HEIGHT	34.88	14.75	34.88



SECTION A-A

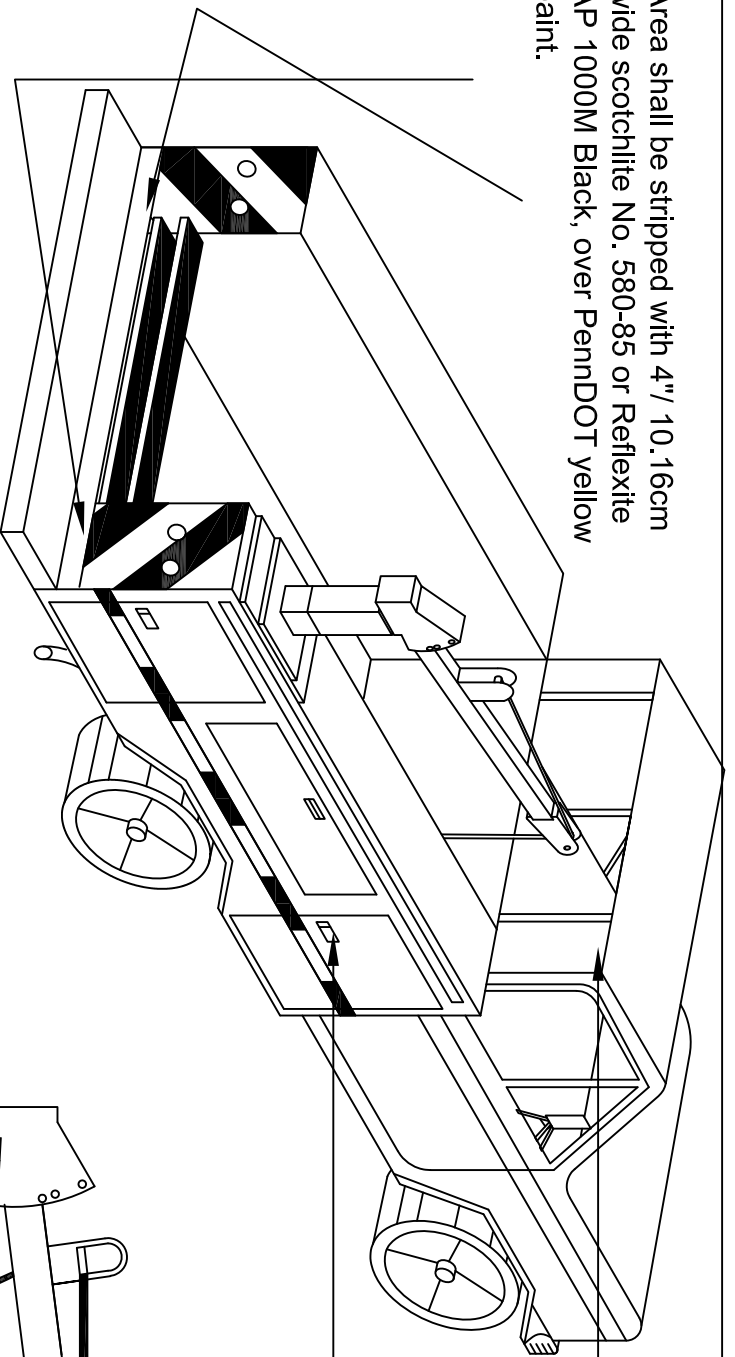


SECTION B-B



		PA DEPARTEME OF TRANSPORTATION	8FT ALUMINUM SERVICE BODY	EQN-1201
		TOLERANCE		
				5/2/2023

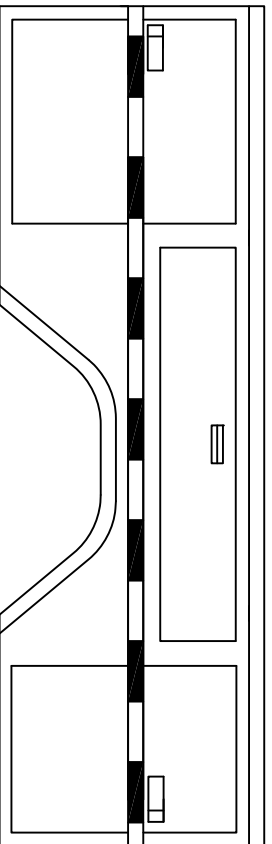
Area shall be stripped with 4" / 10.16cm wide scotchlite No. 580-85 or Reflexite AP 1000M Black, over PennDOT yellow paint.



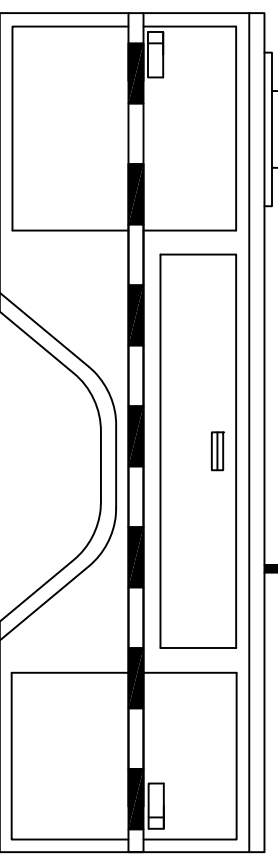
Regular etc.,
Curbside mounted

Material shall be red/silver continuous backing Reflexite Conspicuity II System or 3M Scotchlite Conspicuity Sheeting Series 980.

Street Side



Curb Side



Ⓐ - Area shall be stripped with 4" wide Scotchlite # 580-85 or Reflexite AP 1000 Black, over the PennDOT Yellow Paint.

Ⓑ - Material shall be red / silver continuous backing Reflexite Conspicuity 11 System or 3M Scotchlite Conspicuity Sheeting Series 980.

PA DEPARTMENT OF TRANSPORTATION

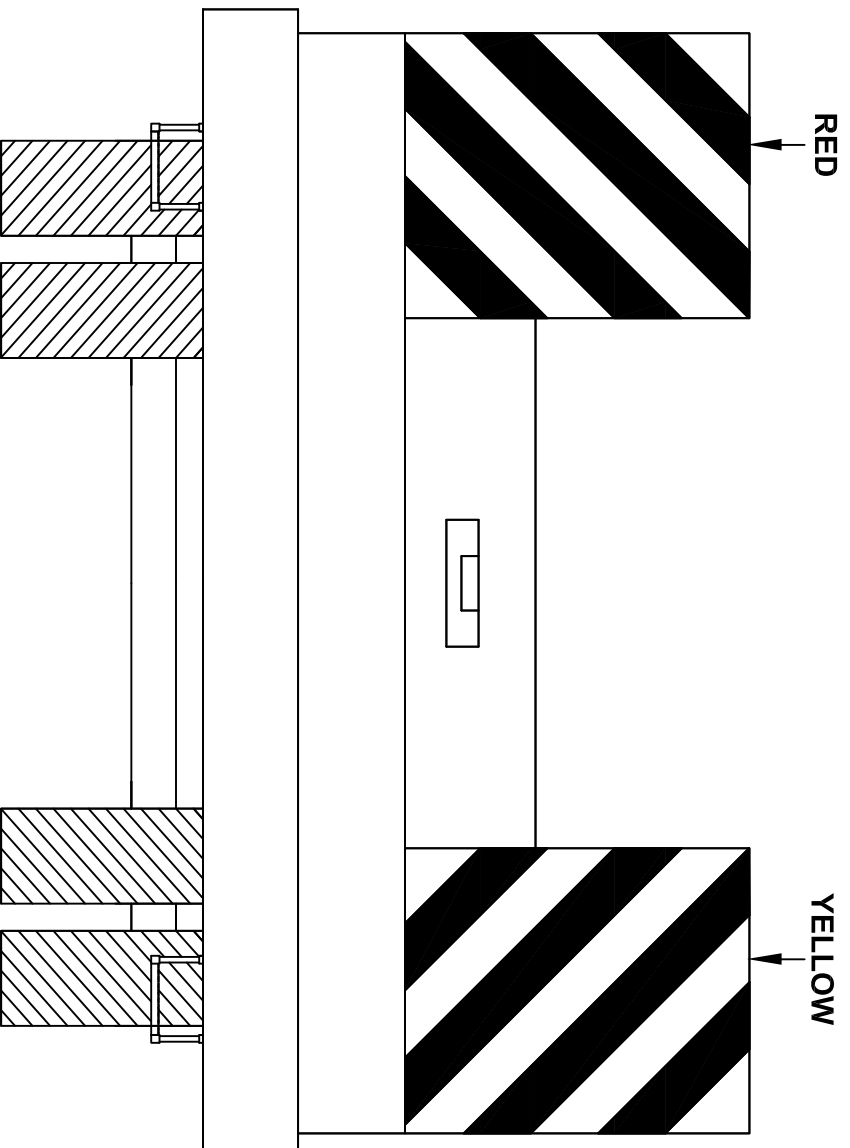
REVISIONS

NO.	DATE	BY	DESCRIPTION
1	08-14-12	MJW	
2			
3			

9' SERVICE BODY

DRAWN BY	KNH	SCALE	N/A	EQN-120J
DATE	4-6-07	CHECKED BY	KGK	SHEET 1 OF 1

**REAR VIEW
(TYPICAL INSTALLATION)**



NOTE: REFLECTIVE SHEETING TO BE 4 INCHES IN WIDTH AND ALTERNATE RED / YELLOW BANDS SPACED EVENLY ON REAR OF BODY. TAPE SHALL BE REFLEXITE DAYBRIGHT V92 CONSPICUITY SHEETING. RED - SRH14R, YELLOW - SRH14Y. INSTALLED.

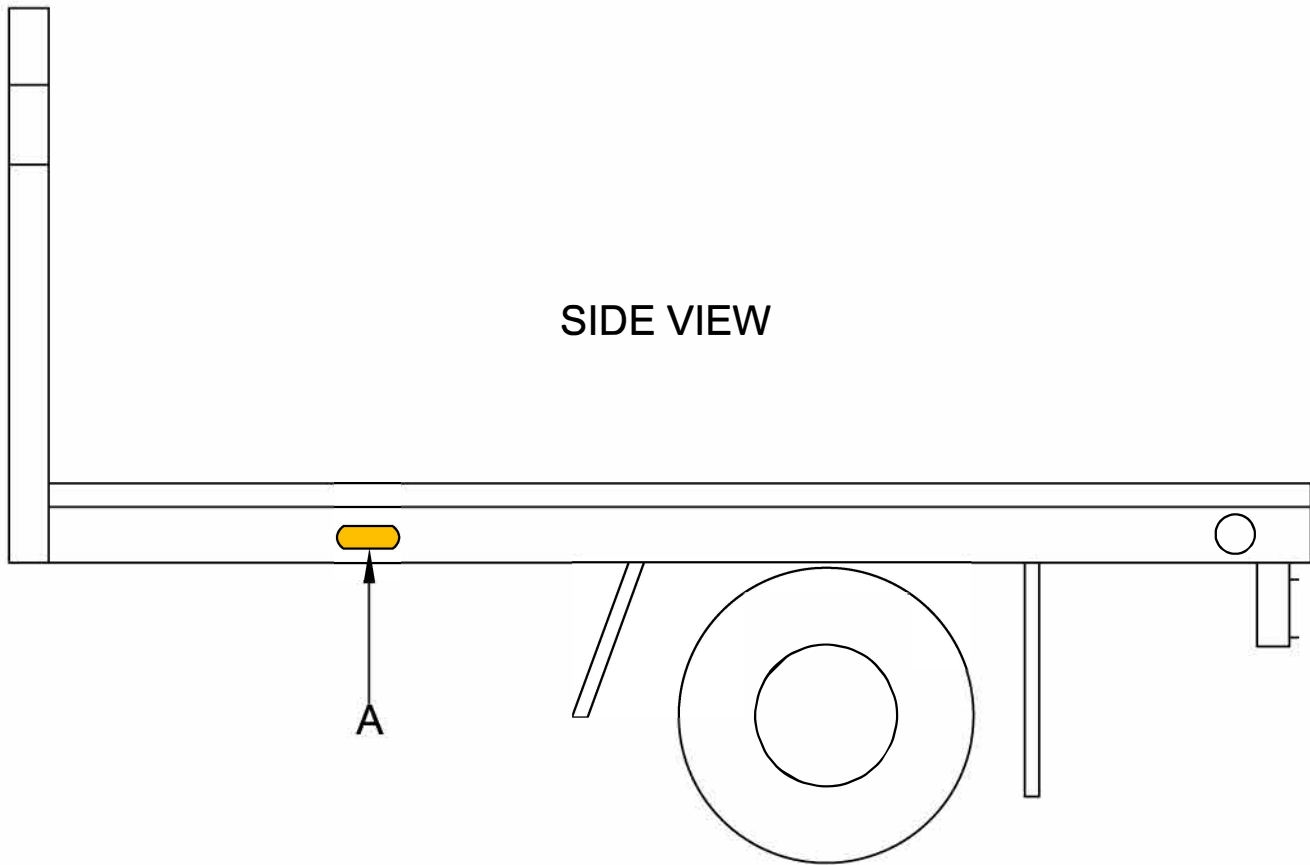
PA DEPARTMENT OF TRANSPORTATION

TYPICAL REFLECTIVE SHEETING

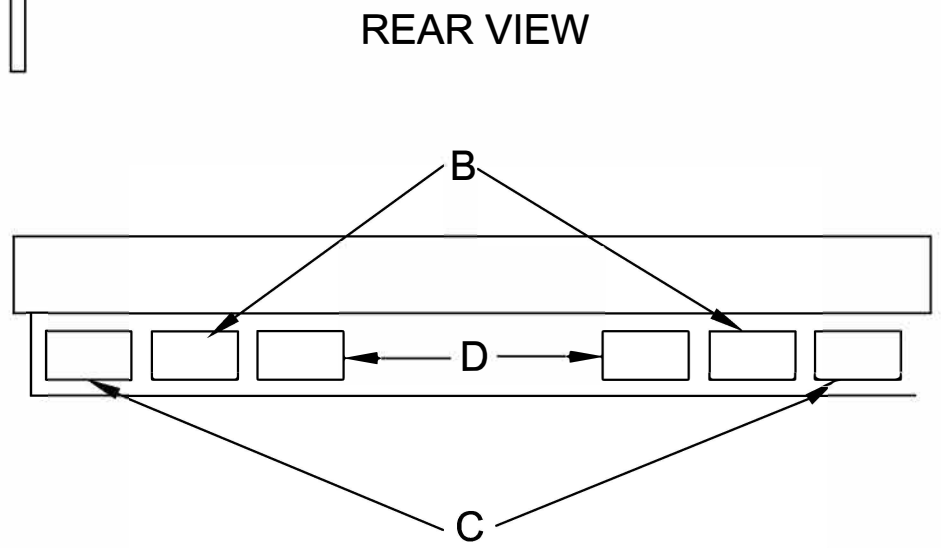
REVISIONS			TYPICAL REFLECTIVE SHEETING		
NO.	DATE	BY	DRAWN BY	SCALE	EQN-120K
1	09-28-11	TOD	MHH	N/A	
2	06-10-14	ACT			
3					

DATE 07-28-08

CHK'D BY TOD SHEET 1 OF 1



SIDE VIEW



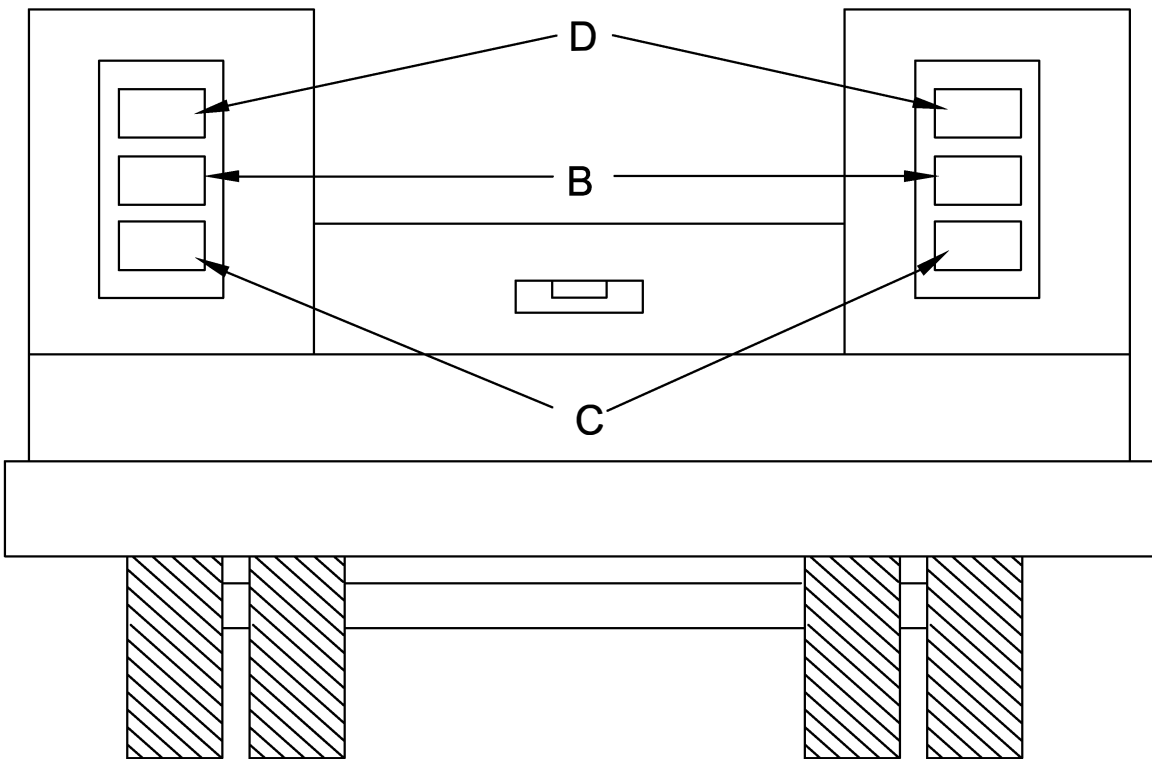
REAR VIEW

The purpose of this drawing is to show locations for Flat bed Body Lighting, Whelen part # PADOTSY7.

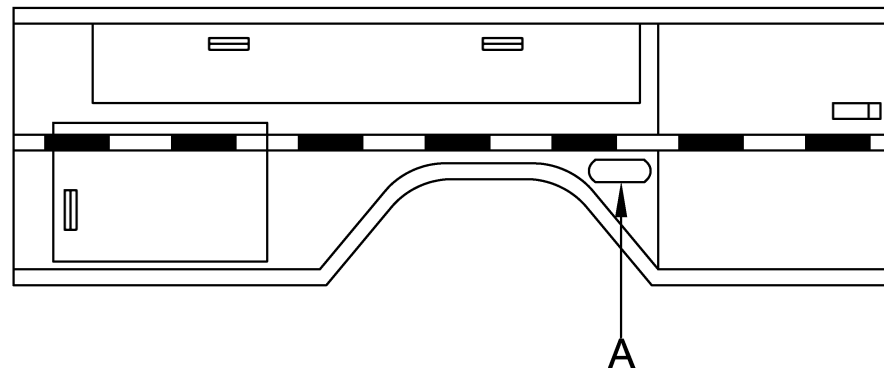
- A. IONAD Amber Warning Light, surface mounted, one each side.
- B. M6BUD Back up Lights with Brush Guards.
- C. M5BTTD Stop / Tail / Turn Lights with Brush Guards.
- D. M6AD Amber Warning Lights with Brush Guards.

PA DEPARTMENT OF TRANSPORTATION						
REVISIONS			Flat bed Body Lighting			
NO.	DATE	BY	DRAWN BY	SCALE	DATE	CHR'D BY
1			TOD	N/A		EQN-120L
2			09/28/11	DMA		SHEET 1 OF 1

REAR VIEW



Curb Side



The purpose of this drawing is to show locations for Crew Cab Body Lighting, Whelen part # PADOTSY5.

- A. IONAD Amber Warning Light, grommet mounted, one each side.
- B. M6BUD Back up Lights.
- C. M5BTDD Stop / Tail / Turn Lights.
- D. M6AD Amber Warning Lights.

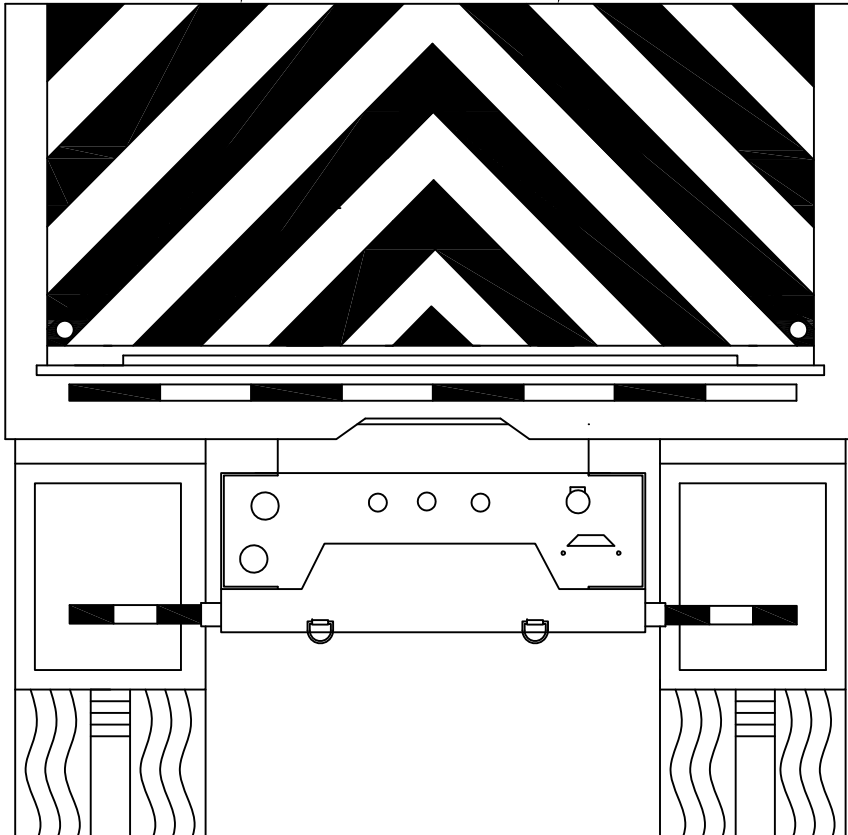
Note: Items B, C, & D are Flush mounted in Black Flange Housing #11-486152-000.

PA DEPARTMENT OF TRANSPORTATION						
REVISIONS			Crew Cab Body Lighting			
NO.	DATE	BY	DRAWN BY	SCALE		
1			TOD	N/A	EQN-120M	
2			DATE 09/28/11	CHK'D BY DMA	SHEET 1 OF 1	

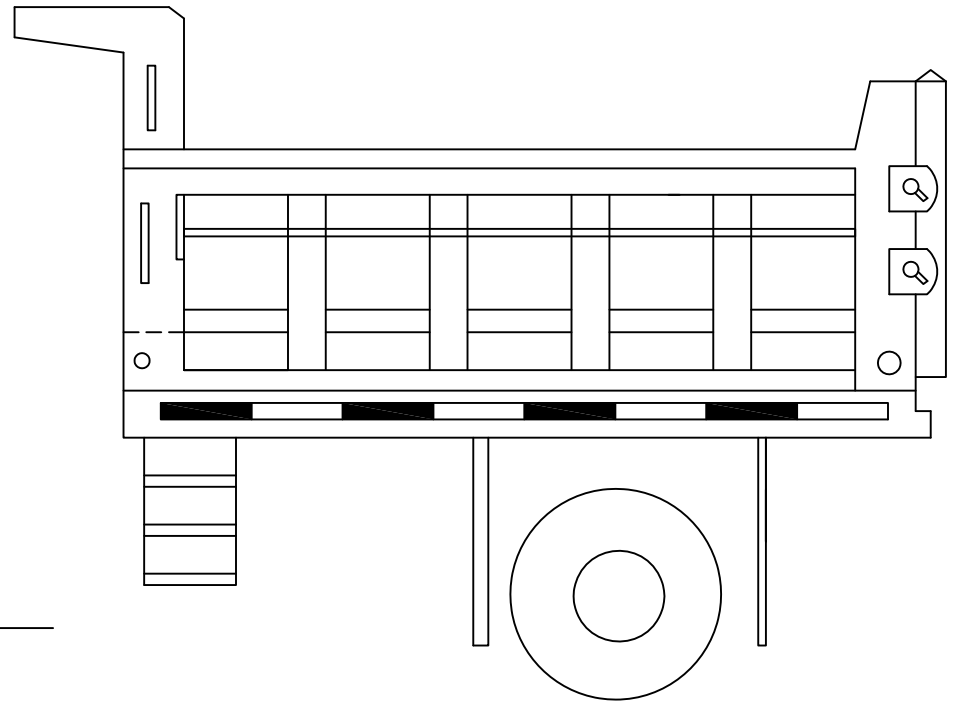
RED

A

YELLOW



A THE TAILGATE SHALL BE STRIPED AS SHOWN WITH 4" WIDE ALTERNATING RED/YELLOW BANDS CREATING A CHEVRON (INVERTED V) AT 45 DEGREE ANGLES, ACROSS THE GATE TO SERVE AS A SAFETY WARNING SYSTEM. TAPE SHALL BE REFLEXITE DAYBRIGHT V92 CONSPICUITY SHEETING. RED - SRHI4R, YELLOW - SRHI4Y.

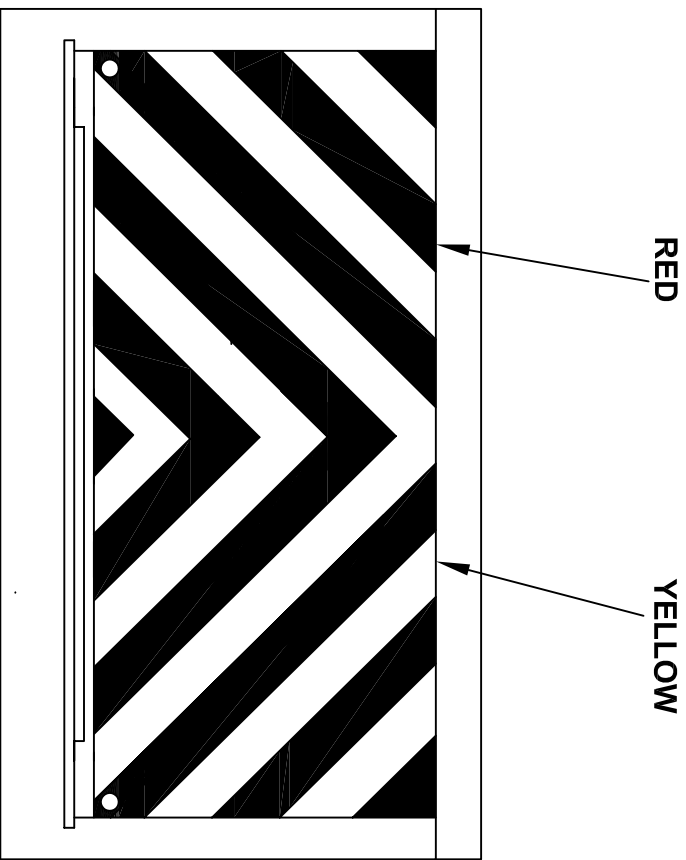


THIS DRAWING SHALL BE FOR TAILGATE CONSPICUITY REFERENCE AND WARNING LIGHTS ONLY, NOT TAILGATE CONSTRUCTION.

THIS VEHICLE SHALL COMPLY WITH THE RULES OF THE NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION (NHTSA). THE MOST CURRENT REGULATIONS SHALL BE ADHERED TO.

PA DEPARTMENT OF TRANSPORTATION

REVISIONS			TAILGATE		
NO.	DATE	BY	REFLECTIVE SHEETING / WARNING LIGHTS		
1	08-14-12	MJW			
2			DRAWN BY	TOD	SCALE N/A EQN-120N
3			DATE	09-29-11	CHK'D BY DAM SHEET 1 OF 1



A THE REAR ROLL UP DOOR SHALL BE STRIPED AS SHOWN WITH 8" WIDE ALTERNATING RED/YELLOW BANDS CREATING A CHEVRON (INVERTED V) AT 45 DEGREE ANGLES, ACROSS THE DOOR TO SERVE AS A SAFETY WARNING SYSTEM.

TAPE SHALL BE REFLEXITE DAYBRIGHT V92
 B CONSPICUITY SHEETING. RED - SRH4R, YELLOW - SRH4Y. TWO 4" SHEETS CAN BE COMBINED TO EQUAL THE 8" REQUIREMENT.

THIS DRAWING SHALL BE FOR CONSPICUITY REFERENCE ONLY, NOT BODY CONSTRUCTION.

THIS VEHICLE SHALL COMPLY WITH THE RULES OF THE NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION (NHTSA). THE MOST CURRENT REGULATIONS SHALL BE ADHERED TO.

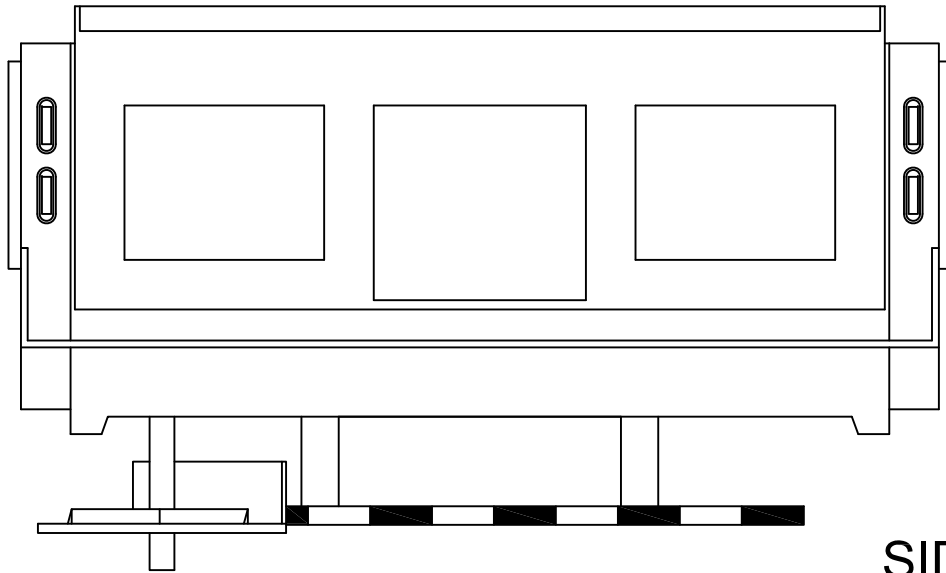
REVISIONS			DRAWN BY			SCALE		
NO.	DATE	BY	DATE	CHKD BY		DATE	CHKD BY	
1			11-03-11	DMA	N/A	11-03-11	DMA	
2								
3								

PA DEPARTMENT OF TRANSPORTATION

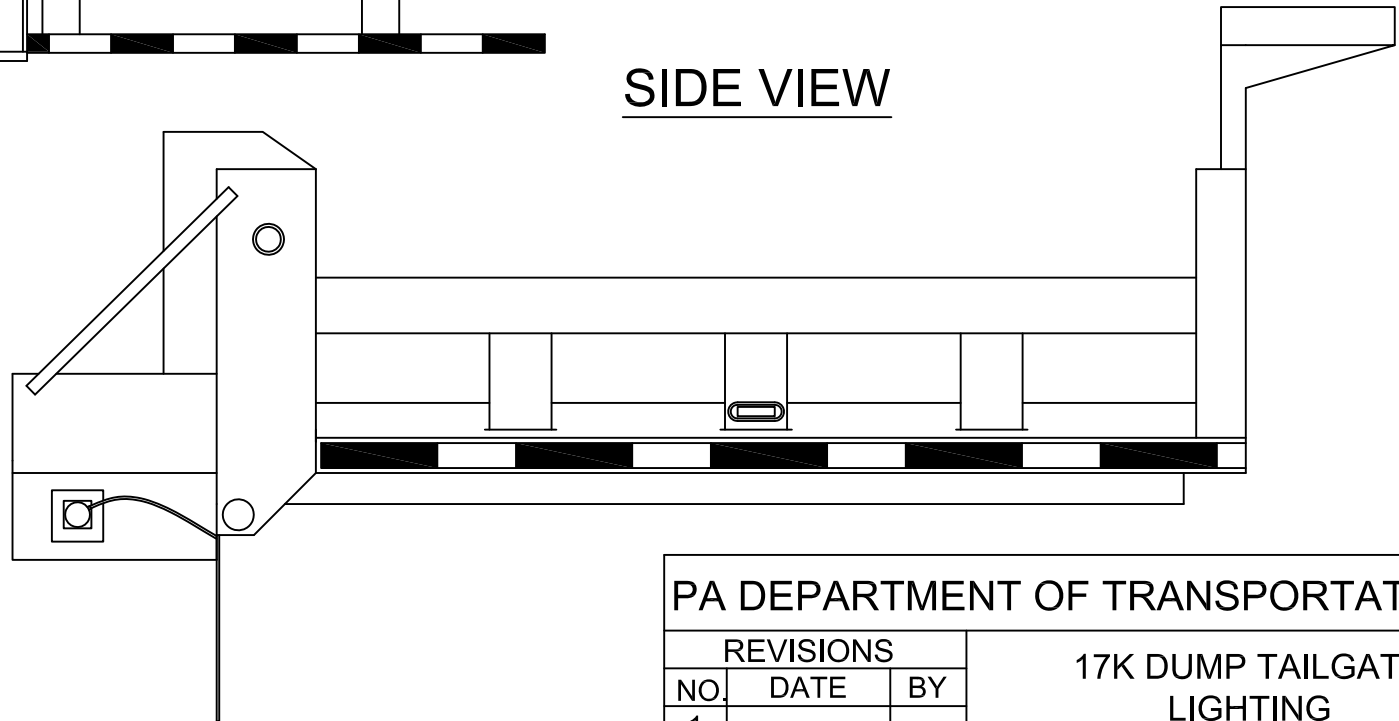
CARGO BOX REAR DOOR REFLECTIVE SHEETING

EQN-120P SHEET 1 OF 1

BACK VIEW



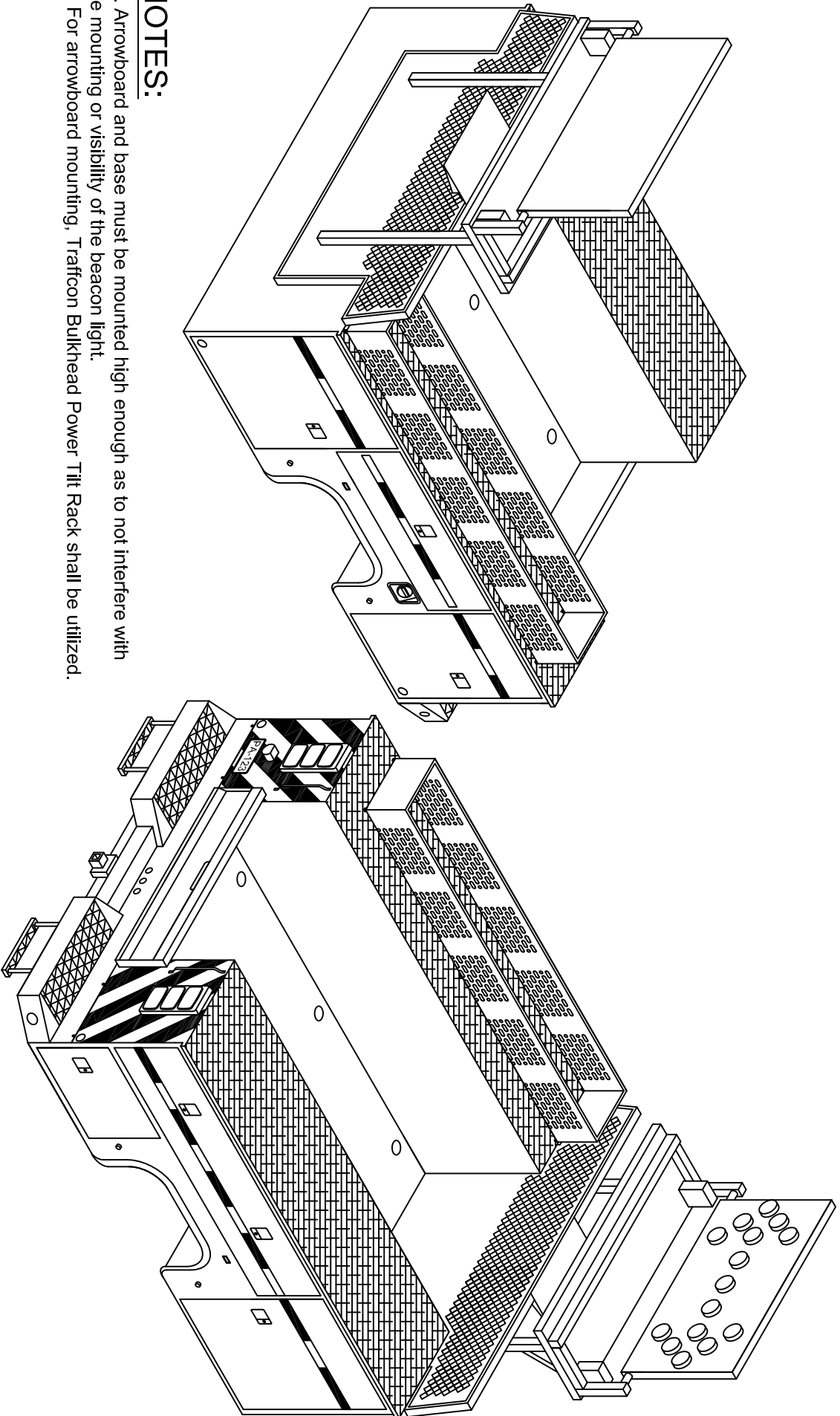
SIDE VIEW



PA DEPARTMENT OF TRANSPORTATION

REVISIONS		
NO.	DATE	BY
1		
2		
3		

17K DUMP TAILGATE LIGHTING		
<small>DRAWN BY</small>	MJW	<small>SCALE</small> N/A
<small>DATE</small>	08-14-12	<small>CHK'D BY</small> EQN-120U
		SHEET 1 OF 1

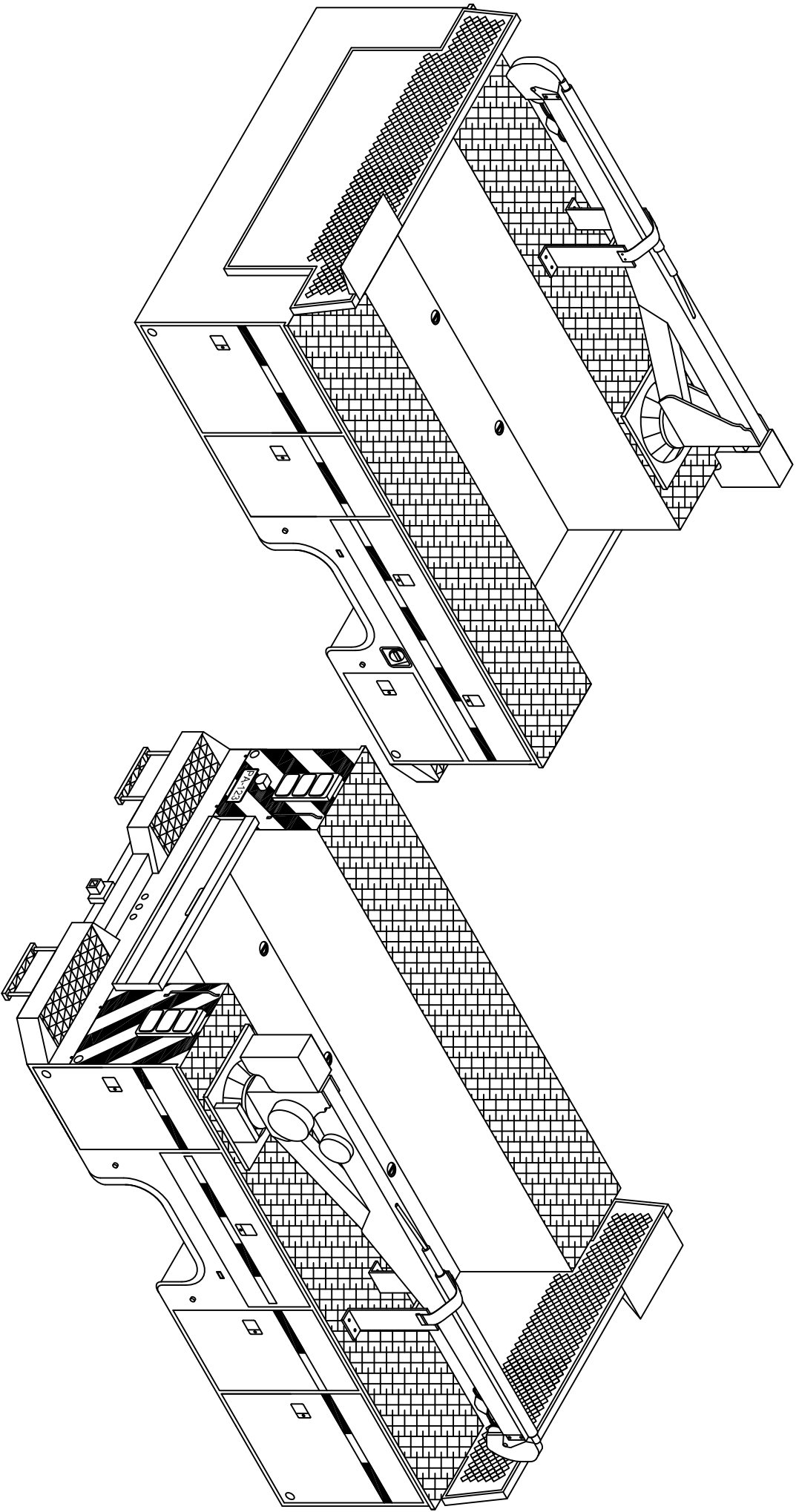


NOTES:

- A. Arrowboard and base must be mounted high enough as to not interfere with the mounting or visibility of the beacon light.
- B. For arrowboard mounting, Trafficon Bulkhead Power Tilt Rack shall be utilized.

PA DEPARTMENT OF TRANSPORTATION

REVISIONS			9' SERVICE BODY WITH MOUNTED ARROW-BOARD		
NO	DATE	BY	DRAWN BY	SCALE	EQN - 120W
1			ACT	N/A	
2					
3			DATE 06-23-14	CHG'D BY	SHEET 1 OF 1



PA DEPARTMENT OF TRANSPORTATION

11' SHOP BODY

REVISIONS					
NO.	DATE	BY			
1					
2					
3					

DRAWN BY	ACT	SCALE	N/A	EQN-120Y
DATE	08-28-14	CHK'D BY		SHEET 1 OF 1

THIS VEHICLE SHALL COMPLY WITH THE RULES OF THE NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION (NHTSA) IN THAT:

THE MOUNTING HEIGHT OF THE HORIZONTAL STRIPES ARE RESTRICTED TO THE SAME HEIGHT AS OTHER RETROREFLECTIVE DEVICES CURRENTLY REQUIRED BY STANDARD NUMBER 108. THE CENTER OF THE MATERIAL MUST NOT BE LESS THAN 15in. ABOVE THE ROAD SURFACE, AND THE UPPER EDGE NOT MORE THAN 60in. ABOVE IT.

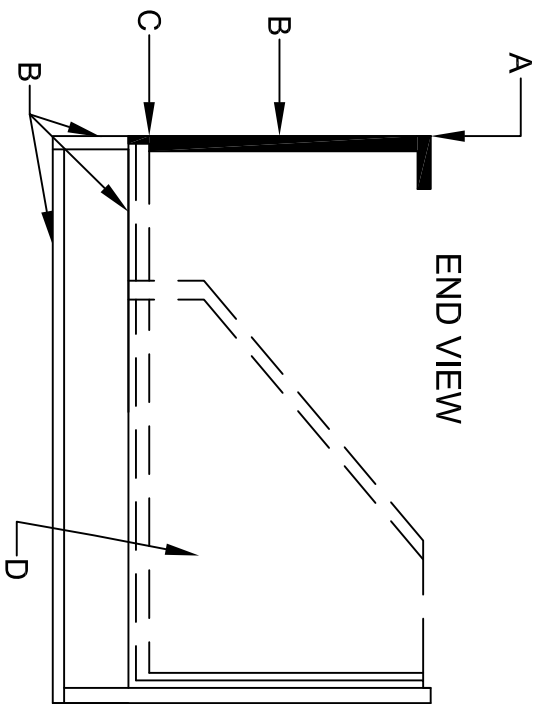
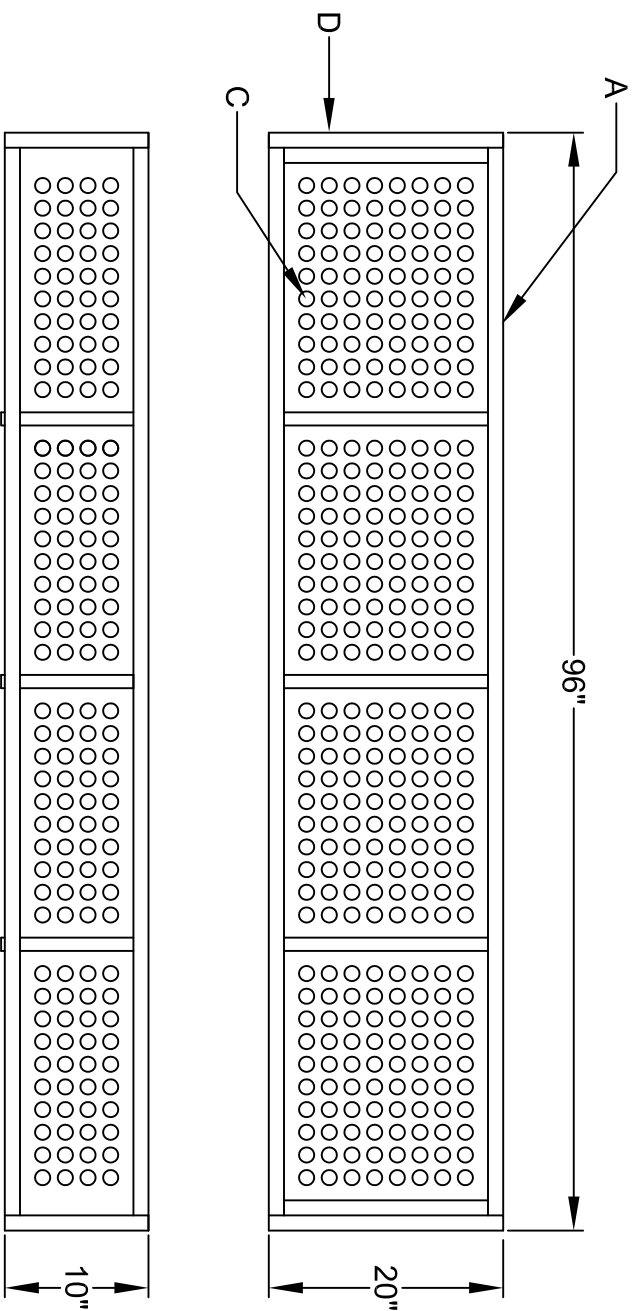
REFLECTIVE MATERIAL SHALL BE APPLIED TO THE HORIZONTAL BAR OF THE REAR UNDERIDE DEVICE IN ADDITION TO THE FLOOR LEVEL HORIZONTAL STRIPE. THE UPPER CORNERS ARE TO BE MARKED BY TWO 90 DEGREE ANGLE BRACKETS OF WHITE STRIPES 12in. BY TWO INCHES WIDE, INDICATING THE WIDTH AND HEIGHT OF THE TRAILER.

THE CONFIGURATION SHALL IDENTIFY THE VEHICLE AS TO ITS ESTIMATED SIZE AND THE CLOSING DISTANCE TO IT. THE DISTRIBUTION OF SPACES AND MATERIALS SHALL BE AS UNIFORM AS PRACTICAL AND INDICATE THE FULL LENGTH AND WIDTH OF THE VEHICLE. THE COLORS SHALL BE PLACED IN ALTERNATING SEQUENCE WITH MORE THAN TWO-THIRDS OF THE MATERIAL IN COLOR.

CONSPICUITY TAPE SHALL BE REFLECTORIZED. 2in. WIDE, MATERIAL SHALL BE APPLIED. MATERIAL SHALL BE RED/SILVER CONTINUOUS BACKING REFLEXITE CONSPICUITY II SYSTEM OR 3M SCOTCHLITE CONSPICUITY SHEETING SERIES 980.

THE MOST CURRENT REGULATIONS SHALL BE ADHERED TO.

REVISIONS			CONSPICUITY TAPE STRIPING REQUIREMENTS		
NO.	DATE	BY	DRAWN BY	SCALE	EQN-127A
1	05-16-02	DWG	DLW	N/A	EQN-127A
2	11-03-06	CJW	DLW	N/A	EQN-127A
3	01-02-09	MHH	DLW	N/A	EQN-127A



END VIEW

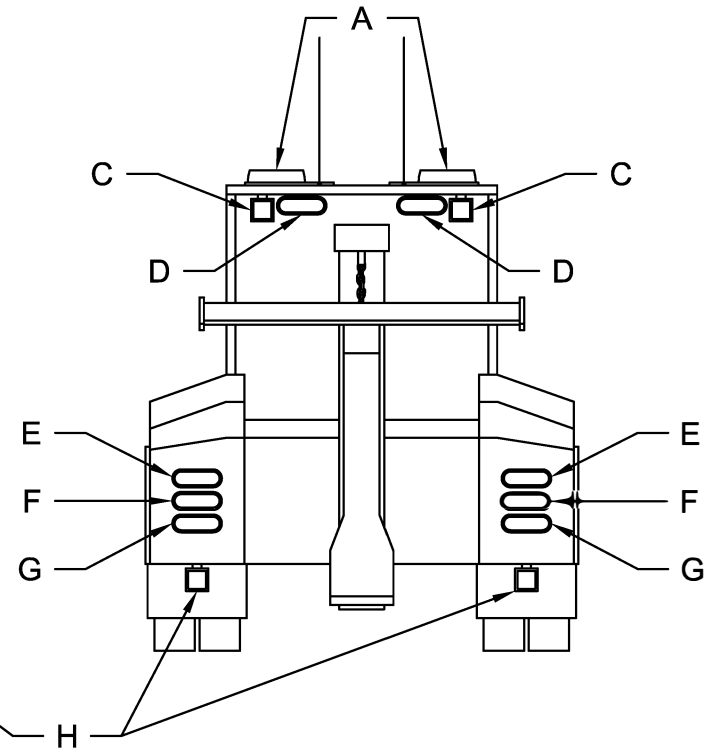
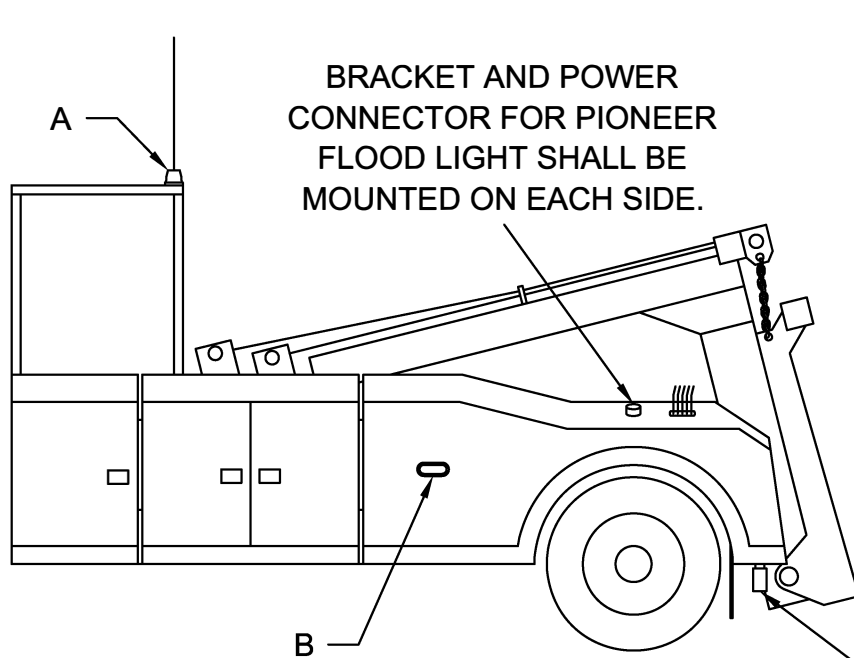
- MATERIAL LIST**
- A) .75" X .75" X .25" ALUMINUM ANGLE
 - B) 1.50" X .1875 ALUMINUM BAR
 - C) PRE-PUNCHED ALUMINUM
(TO BE PLACED ON BOTH SIDES AND BOTTOM)
 - D) .25" ALUMINUM TREADPLATE

NOTE:
EXPANDABLE
METAL IS
UNACCEPTABLE

PA DEPARTMENT OF TRANSPORTATION

REVISIONS			GENERAL UTILITY TOOL BASKET		
NO.	DATE	BY	DATE	SCALE	
1	05-16-02	DWG			
2	01-11-06	CJW			
3			04-18-00	N/A	

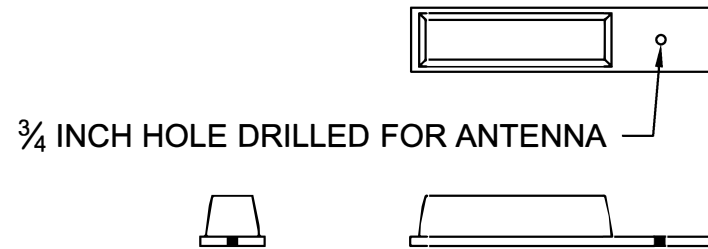
DRAWN BY GAH
CHECKED BY RED
DATE 04-18-00
SCALE N/A
EQU-134
SHEET 1 OF 1



LIGHTING NOTES:

- A. TWO (2) R-10 LIGHT BARS MOUNTED TO THE ARROW BOARD BRACKET.
- B. TWO (2) IONAD WARNING LIGHTS GROMMET MOUNTED ONE ON EACH SIDE
- C. TWO (2) MICRO PIONEERS MOUNTED TO THE BOTTOM OF THE ARROW BOARD BRACKET.
- D. TWO (2) M6BTDD STOP, TAIL, AND TURN WITH BRUSH GUARDS MOUNTED TO THE BACK SIDE OF THE ARROW BOARD BRACKET.
- E. TWO (2) M6AD AMBER WARNING WITH BRUSH GUARDS MOUNTED TO THE REAR OF THE BODY.
- F. TWO (2) M6BUD BACK UP WITH BRUSH GUARDS MOUNTED TO THE REAR OF THE BODY.
- G. TWO (2) M6BTDD STOP, TAIL, AND TURN WITH BRUSH GUARDS MOUNTED TO THE REAR OF THE BODY.
- H. TWO (2) MICRO PIONEERS MOUNTED BELOW THE BODY BEHIND THE MUD FLAPS ON INDIVIDUAL SWITCHES.

REFERENCE A: R-10 LIGHT BAR



PA DEPARTMENT OF TRANSPORTATION

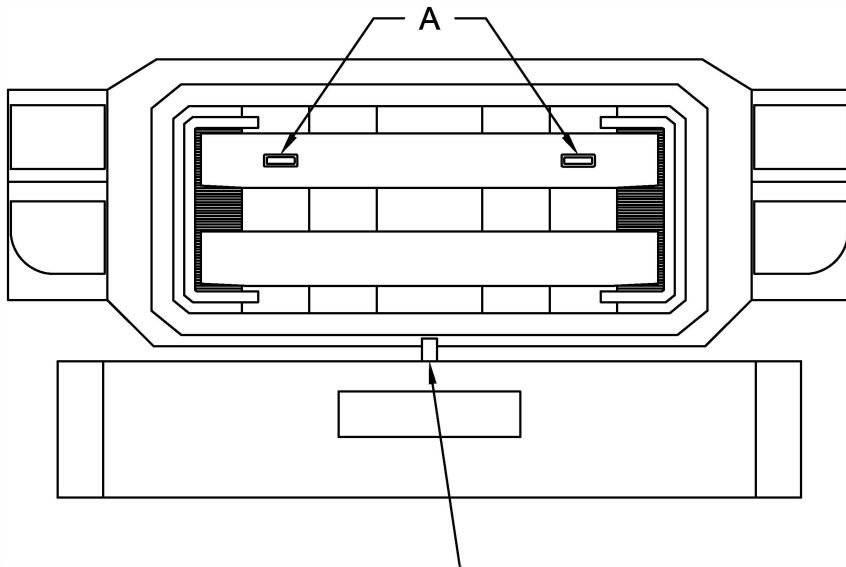
REVISIONS			WRECKER WITH ARROW BOARD				
NO.	DATE	BY					
1			DRAWN BY	JJB	SCALE	N/A	EQN-139
3			DATE	05-26-16	CHKD BY		SHEET 1 OF 2

ARROW BOARD MOUNTING SYSTEM SHOWN IS FOR REFERENCE PURPOSES ONLY.
 ACTUAL MESSAGE BOARD MOUNTING SYSTEM SHALL BE DESIGNED TO NOT INTERFERE WITH BEACON LIGHTS, ANTENNA, OR CAB OF TRUCK. MOUNTING SYSTEM MAY BE INCORPORATED INTO PYLON.

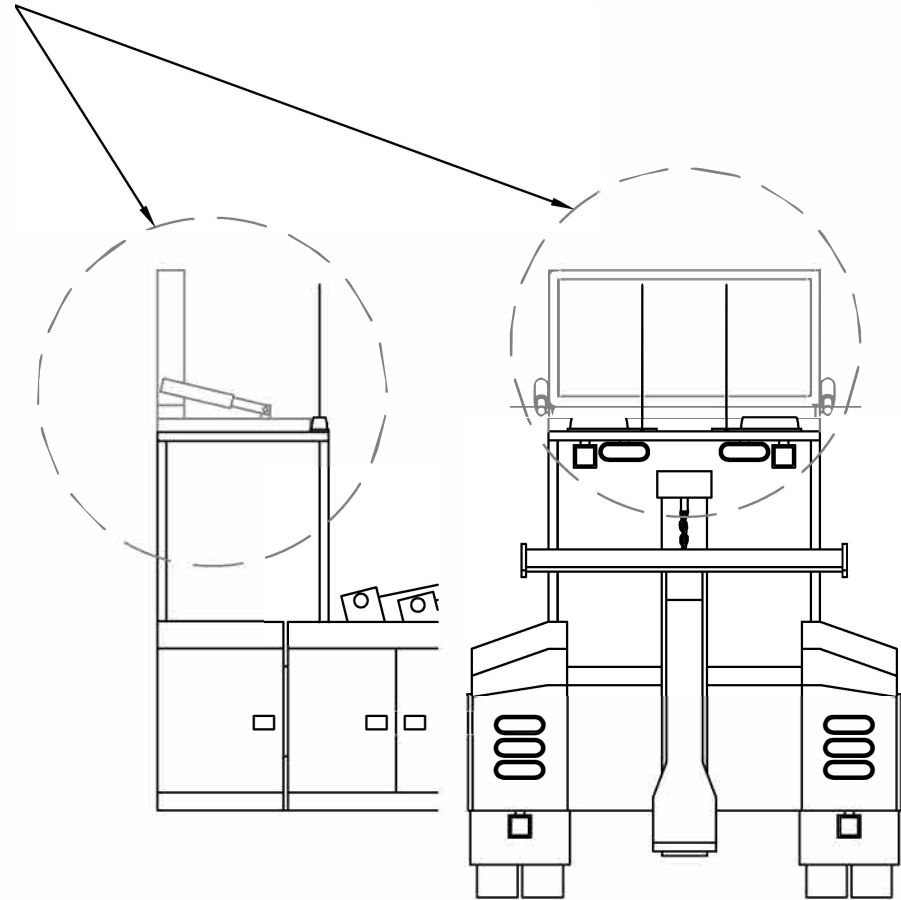
LIGHTING NOTES:

- A. TWO (2) IONAD WARNING LIGHTS. GROMMET MOUNTED TO THE FRONT GRILLE.

FRONT OF TRUCK



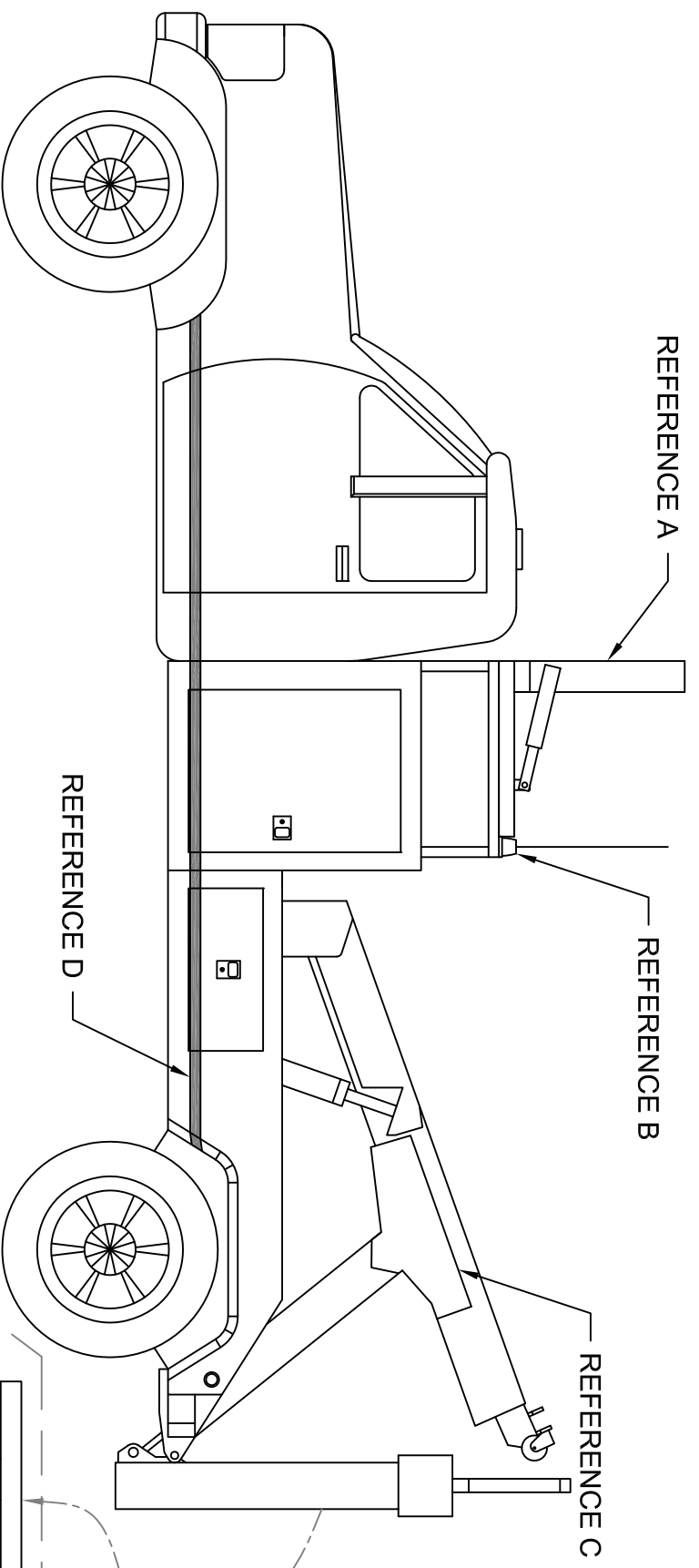
BRACKET AND POWER CONNECTOR FOR PIONEER FLOOD LIGHT SHALL BE MOUNTED ON FRONT PUSH BAR



CHASSIS SHALL BE DESIGNED WITH ADEQUATE SPACE FOR USE OF TIRE CHAINS.

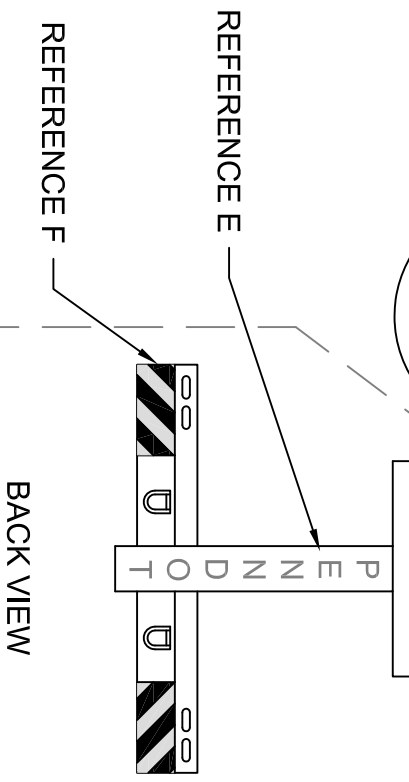
PA DEPARTMENT OF TRANSPORTATION

REVISIONS			WRECKER WITH ARROW BOARD		
NO.	DATE	BY	DRAWN BY	SCALE	
1			JJB	N/A	EQN-139
2			DATE	05-26-16	CHKD BY
3					SHEET 2 OF 2



NOTES:

- A. ARROW BOARD SHALL BE MOUNTED ABOVE CAB LEVEL AND SHALL NOT INTERFERE WITH BOOM ARM.
- B. TWO (2) R-10 LIGHT BARS MOUNTED TO THE ARROW BOARD BRACKET.
- C. DECAL SHALL BE PLACED ON SIDE OF BOOM ARM AND SHALL READ "PARKWAY SERVICE PATROL".
- D. REFLECTIVE TAPE SHALL BE PLACED LENGTH BODY. SHALL HAVE DECAL PLACED ON DOOR OF CAB. DECAL SHALL READ "PARKWAY SERVICE PATROL".
- E. DECAL SHALL BE PLACED ON BACK OF BOOM ARM AND SHALL READ "PENNDOT".
- F. REFLECTIVE SHEETING TO BE 4 INCHES IN WIDTH AND ALTERNATE RED / YELLOW BANDS SPACED EVENLY ON REAR OF BODY. TAPE SHALL BE REFLEXITE DAYBRIGHT V92 CONSPICUITY SHEETING. RED-SRH14R, YELLOW SRH14Y. INSTALLED.

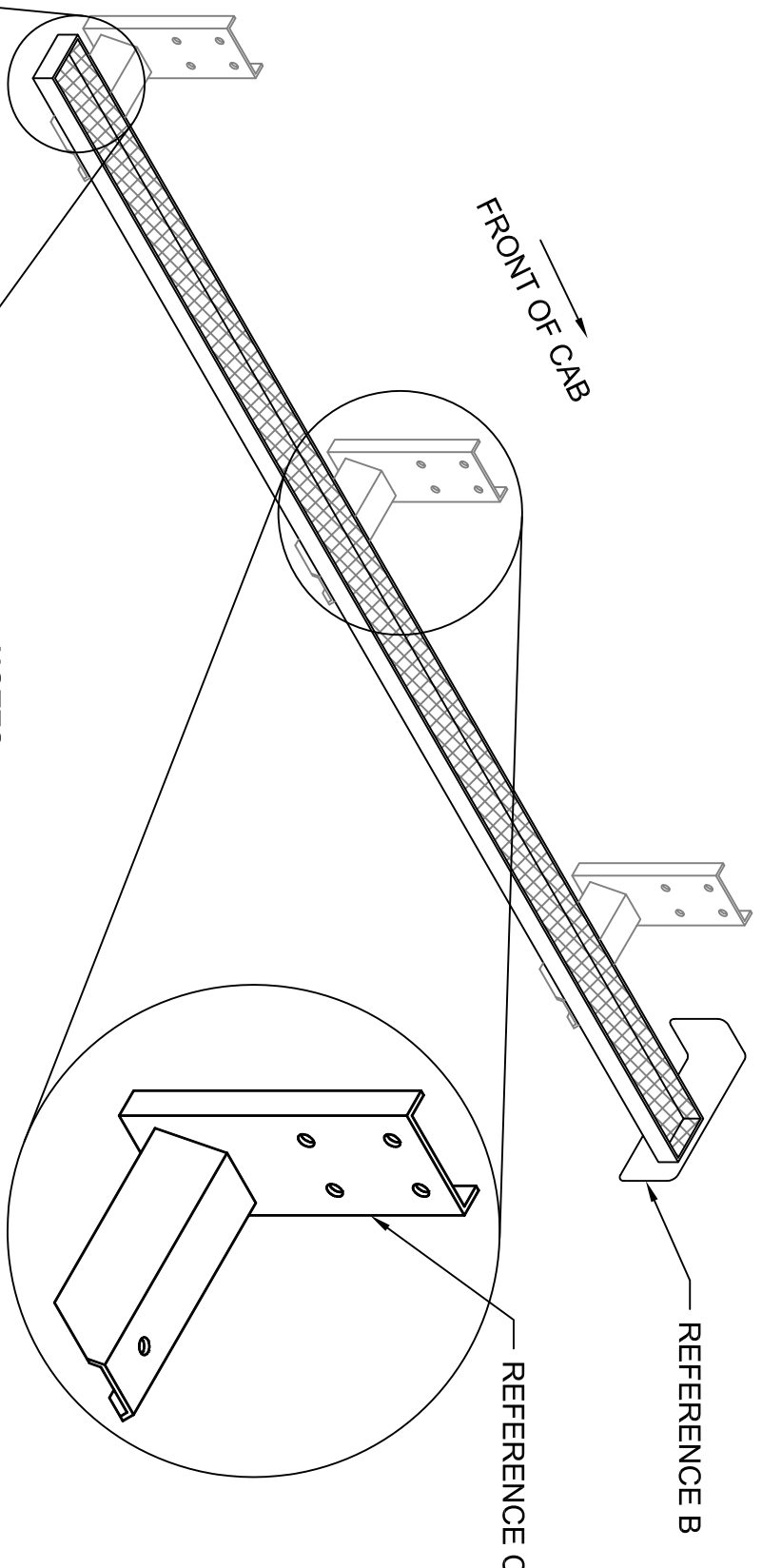


PA DEPARTMENT OF TRANSPORTATION

TOWTRUCK 19,500 LBS

REVISIONS		TOWTRUCK 19,500 LBS	
NO	DATE	BY	
1	07-17-07	BAG	
2	08-07-08	MHH	
3	07-18-16	JJB	

DATE	SCALE	CHG'D BY	SHEET
08-25-98	N/A	WHM	1 OF 1



NOTES:

SHALL EXTEND ENTIRE LENGTH OF CAB AND SHALL BE ADEQUATE TO SUPPORT 350 LBS MAN.

- A. RUNNING BOARDS SHALL BE MADE OF A BUSTIN STYLE GRIP MATERIAL WITH SERRATED EDGES.
- B. MUDGUARD SHALL BE FLUSH WITH THE FRONT WHEEL WELL.
- C. SHALL BE MOUNTED TO CAB USING ALUMINUM BRACKETS. ALL BOLTS SHALL BE STAINLESS STEEL.

REFERENCE A

REFERENCE B

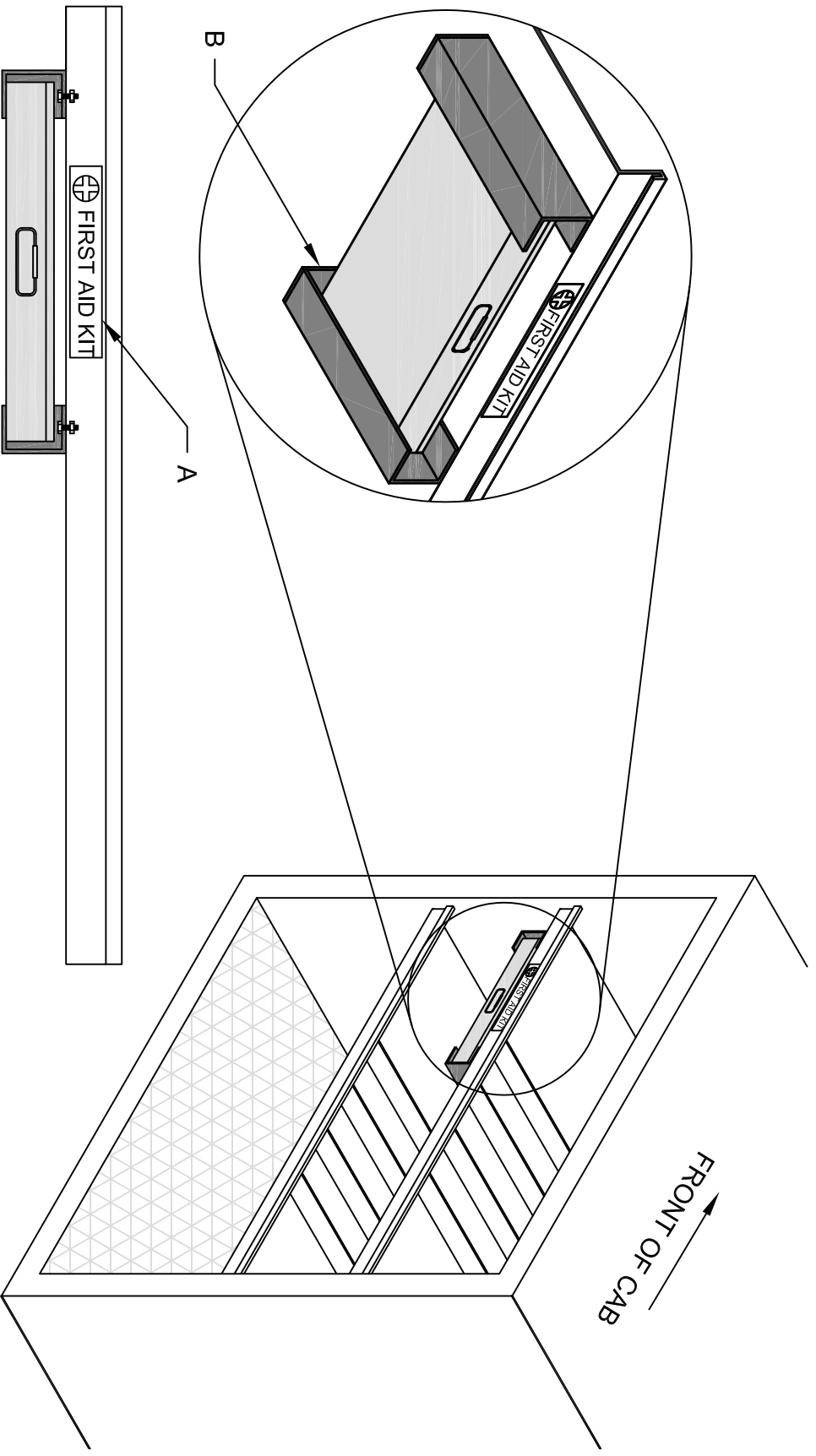
REFERENCE C

FRONT OF CAB

PA DEPARTMENT OF TRANSPORTATION

REVISIONS			RUNNING BOARDS		
NO	DATE	BY			
1					
2					
3					

	DRAWN BY	JJB	SCALE	N/A	EQN-170
	DATE	07-19-16	CHK'D BY		SHEET 1 OF 1



NOTES:

BRACKET SHALL BE MOUNTED UNDER FIRST SHELF, IN FORWARD MOST CABINET, ON DRIVERS SIDE OF VEHICLE.

BRACKET SHALL BE DESIGNED TO SECURELY FIT ARBIL FIRST AID KIT (PN# SF00002155) AND SHALL ALLOW FOR QUICK EMERGENCY ACCESS TO KIT.

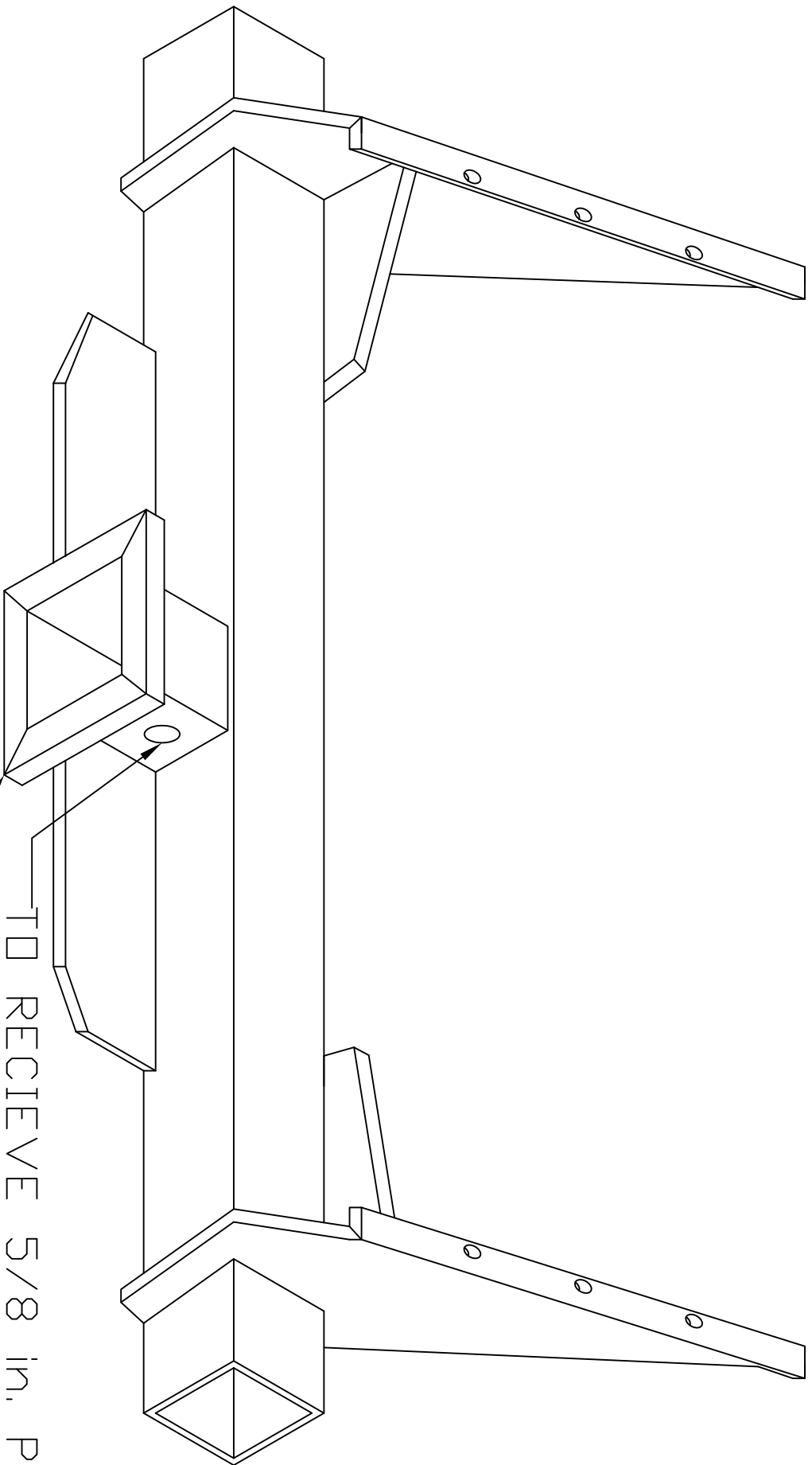
- A. STICKER SHALL BE PLACED ON SHELF ABOVE BRACKET AND SHALL READ "FIRST AID KIT".
- B. BRACKET SHALL BE DESIGNED TO MINIMIZE MOVEMENT OF FIRST AID KIT WHILE VEHICLE IS IN OPERATION.

PA DEPARTMENT OF TRANSPORTATION

REVISIONS			FIRST AID KIT BRACKET		
NO.	DATE	BY	NO.	DATE	BY
1					
2					
3					

NO.	DATE	BY	DRAWN BY	SCALE	SHEET
1			JJB	N/A	EQN-171
2					
3					

DATE 07-21-16
SHEET 1 OF 1



Class IV hitch with a minimum 12,000lbs trailer weight capacity, weight distributing type hitch, mounted. Mfg. by Reese, Elkhart Indiana, or Draw-Tite Canton Michigan, or prior approved exact equal, no substitute on dimensions, standardization.

PA DEPARTMENT OF TRANSPORTATION

REVISIONS

NO.	DATE	BY	WEIGHT	DISTRIBUTING
1	08/08/06	CJW	DLW	EQN-202B
2	11-03-06	CJW	DATE 12/31/97	SCALE N/A
3	07-27-16	JJB		CHK'D BY KGK SHEET 1 OF 1

SPECIFICATIONS LED WARNING LIGHTS

THE WARNING LIGHTS DESCRIBED HERIN WILL BE USED FOR OFF/ON ROAD EQUIPMENT SUCH AS CARS, TRUCKS, MOTOR GRADERS, LOADERS, ETC. REQUIRING SAFETY LIGHTS. THE FOLLOWING SPECIFICATION DETAILS A 360° HIGH QUALITY SELF-CONTAINED LED MINI LIGHTBAR FOR USE ON A VARIETY OF VEHICLE TYPES:

1. THE LED MINI LIGHT BAR SHALL MEET J845 MAY97, CLASS 1 IN AMER AND SHALL BE AMECA CERTIFIED. THE PERMANENT MOUNT LED MINI BAR SHALL FEATURE 14 MULTIPLE FLASH PATTERNS AND HAVE A MIMIMUM OF A SIX INCH PIGTAIL.
2. THE LED MINI LIGHTBAR SHALL FEATURE SOLID-STATE CIRCUITRY, POLARITY PROTECTION AND NO MOVING PARTS FOR HIGHEST DEGREE OF RELIABILITY. THE MINI LIGHTBAR SHALL BE 12 VDC NOMINAL, STANDARD. THE MINI BAR SHALL HAVE A PUBLISHED AVERAGE AMP DRAW OF 3.6 AMPS AT 12 VDC (10.8 AMP PEAK AMP DRAW). THE MINI LIGHT BAR SHALL ALLOW OPERATION WITHOUT DEGRADATION OF INTENSITY OR FLASH RATE BETWEEN 10-16 VDC.
3. THE LED LIGHTBAR SHALL FEATURE A HEAVY DUTY EXTRUDED ALUMINUM BASE. THE PERMANENT MOUNT LED MINI LIGHTBAR SHALL NOT EXCEED 5 3/32" IN HEIGHT, 17 1/4" IN WIDTH, AND 6 5/16" IN DEPTH. THE LED MINI LIGHTBAR SHALL HAVE A BUILT IN ELECTRONIC FLASHER. THE LED MINI LIGHTBAR SHALL BE CONSTRUCTED WITH SIX (6) 400 SERIES LINEAR SUPER-LED WITH DEUTSCH CONNECTOR MODULES RESULTING IN A TOTAL OF 72 SUPER LED'S. THE LED MINI LIGHTBAR SHALL USE BOLTS FOR PERMANENT MOUNTING. THE LED MINI LIGHTBAR DOME SHALL FEATURE A SMOOTH OUTER SURFACE AND MADE OF POLYCARBONATE MATERIAL.
4. THE LED MINI LIGHT BAR SHALL BE WARRANTED FOR SIXTY MONTHS BY THE MANUFACTURER FROM THE DATE INSTALLED.

PA DEPARTMENT OF TRANSPORTATION						
REVISIONS			LED WARNING LIGHT			
NO.	DATE	BY				
1	05-29-07	KNH				
2	07-30-08	MHH	<small>DRAWN BY</small> DWG	<small>SCALE</small> N/A	EQN-210B	
3	01-07-10	TOD	<small>DATE</small> 04-04-02	<small>CHK'D BY</small>	SHEET 1 OF 3	
4	04-05-12	TOD				

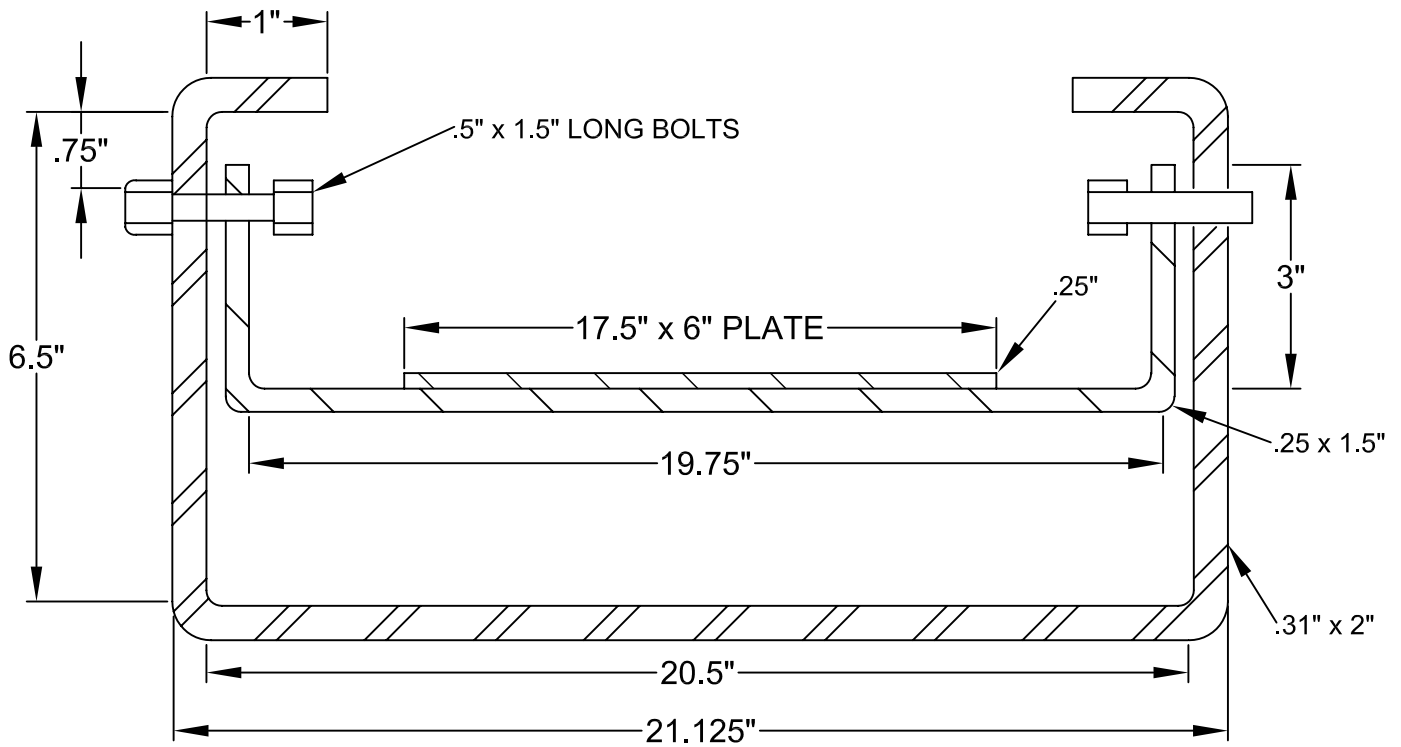
SPECIFICATIONS LED WARNING LIGHTS

5. UNIT MUST BE CAPABLE OF BEING MOUNTED ON A SURFACE, OR ON A SELF-LEVELING MOUNT. ALL MOUNTING HARDWARE AND ROOF MOUNTING BOLTS SHALL BE INCLUDED. A SOFT RUBBER GASKET OR MOUNTING PAD SHALL BE PROVIDED TO FORM A WEATHERPROOF SEAL BETWEEN THE HOUSING AND VEHICLE ROOF, AFFORDING MAXIMUM VIBRATION ISOLATION.

IMPORTANT: ANY EXCEPTION TO THE ABOVE SPECIFICATIONS MUST BE CLEARLY STATED IN YOUR BID OR IT SHALL BE CONSIDERED AS "NON-RESPONSIVE".

REFERENCE: WHELEN MODEL 01-0687181A1P OR A PRE-APPROVED EQUAL.

PA DEPARTMENT OF TRANSPORTATION						
REVISIONS			LED WARNING LIGHT			
NO.	DATE	BY				
1	05-29-07	KNH				
2	07-30-08	MHH	<small>DRAWN BY</small> DWG	<small>SCALE</small> N/A	EQN-210B	
3	01-07-10	TOD	<small>DATE</small> 04-04-02	<small>CHK'D BY</small> TOD	SHEET 2 OF 3	
4	04-05-12	TOD				



THE ALUMINUM WARNING LIGHT MOUNTING BRACKET SHALL BE A SELF-LEVELING TYPE OF SUFFICIENT WEIGHT TO KEEP OXCILLATION TO A MINIMUM. IT SHALL BE CONSTRUCTED TO BE IN BALANCE WITH THE WARNING LIGHT AND MAINTAIN THE LIGHT IN A HORIZONTAL POSITION WITH THE TRUCK BODY RAISED UP TO AN ANGLE OF 50 DEGREES. OUTER BRACKET SHALL BE EQUIPPED WITH *TEFLON, NYLON, OR BRONZE BUSHINGS IN PIVOTS AND STOPS TO PREVENT THE LIGHT FROM TIPPING MORE THAN 50 DEGREES FROM CENTER OF BRACKET. INNER BRACKET SHALL BE CONSTRUCTED WITHA A FULL SIZE MINIMUM .25in. THICK ALUMINUM PLATE WITH A DIAMETER EQUAL TO THE BASE OF THE LIGHT, AND A PIPE NIPPLE OR A SUITABLE DEVICE TO MOUNT THE LIGHT. THE INNER BRACKET SHALL BE SUPPORTED BY OFFSET BOLTS (ALUMINUM, BRASS, OR STAINLESS STEEL) PIVOTING IN THE OUTER BRACKET BUSHINGS. ONE OFFSET BOLT SHALL BE DRILLED TO ALLOW A WIRE TO PASS THROUGH FOR CONNECTION TO THE LIGHT. SPACER(S), IF NECESSARY, SHALL BE PROVIDED TO PREVENT SIDEWAY SWINGS.

PA DEPARTMENT OF TRANSPORTATION

REVISIONS			HIGH VOLTAGE REVOLVING WARNING LIGHT		
NO.	DATE	BY	DRAWN BY	SCALE	
1	07-01-03	BLD			
2	01-25-07	CJW	DWG	N/A	EQN-210B
3	07-30-08	MHH	DATE	CHK'D BY	SHEET 3 OF 3
4	01-07-10	TOD			

TOWING AND HAULING INFORMATION

VEHICLE MODEL _____

VEHICLE EMPTY WEIGHT _____

GVWR _____

GCWR _____

MAXIMUM WEIGHT
FOR EQUIPMENT _____

TOWED W/O BRAKES _____

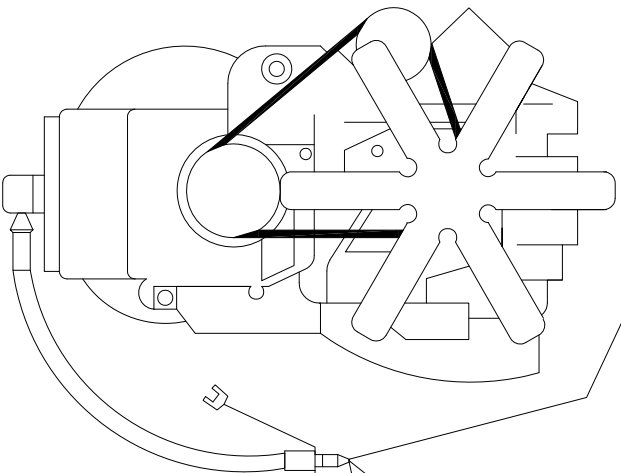
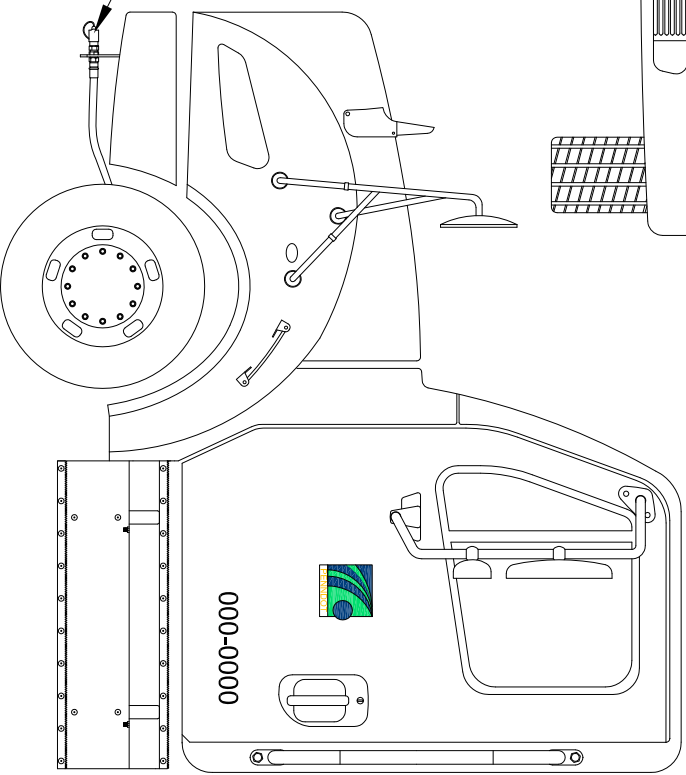
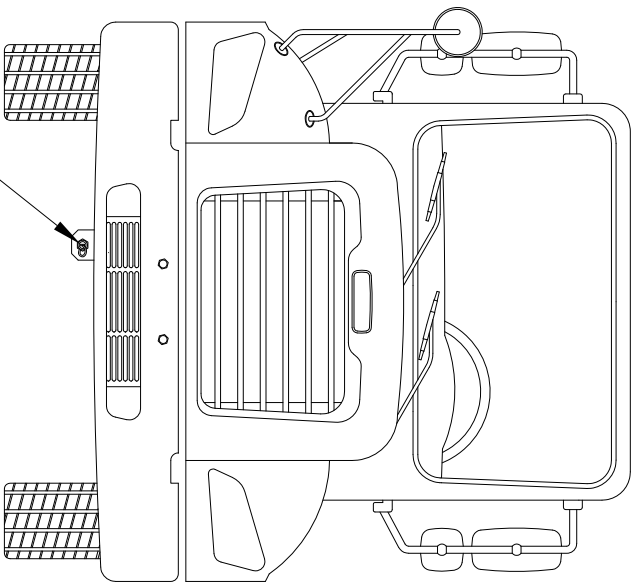
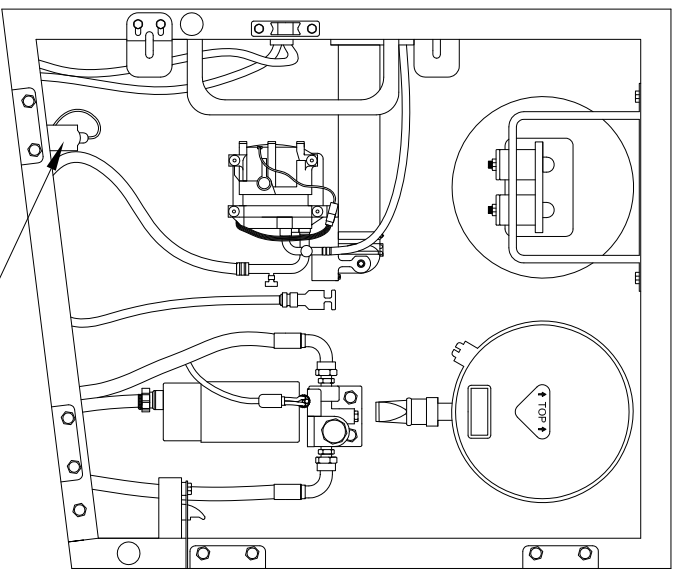
2.50 in.

4.00 in.

HAULING INFORMATION

A WEATHER PROOF DECAL OR METAL TAG SHALL BE INSTALLED IN THE CAB REFLECTING THE INFORMATION AS SHOWN ON THE EXAMPLE ABOVE.

PA DEPARTMENT OF TRANSPORTATION			DECAL		
			TOWING AND HAULING INFORMATION		
REVISIONS		NO.	DATE	BY	DATE
	1	05-22-02	DWG		
	2	11-03-06	CJW		
	3				
		DRAWN BY	DLW	SCALE	N/A
		DATE	10-20-97	CHK'G BY	WHM
		SHEET 1 OF 1			



DISCONNECT
COUPLING
FLOCS
ENGINE KIT

PA DEPARTMENT OF TRANSPORTATION

REVISIONS

NO.	DATE	BY	FAST LUBE OIL CHANGE SYSTEM OVERVIEW AND PARTS LIST
1	07-01-03	BLD	
2	10-20-06	CJW	
3	06-19-13	JFM	

**FAST LUBE OIL CHANGE SYSTEM
OVERVIEW AND PARTS LIST**

DATE	DRAWN BY	SCALE	CHK'D BY
08-22-97	DLW	N/A	WHM

1. CONTACT AEROQUIP WITH YOUR DRAIN PAN PLUG SIZE
2. AEROQUIP DEALER TELEPHONE NUMBERS:

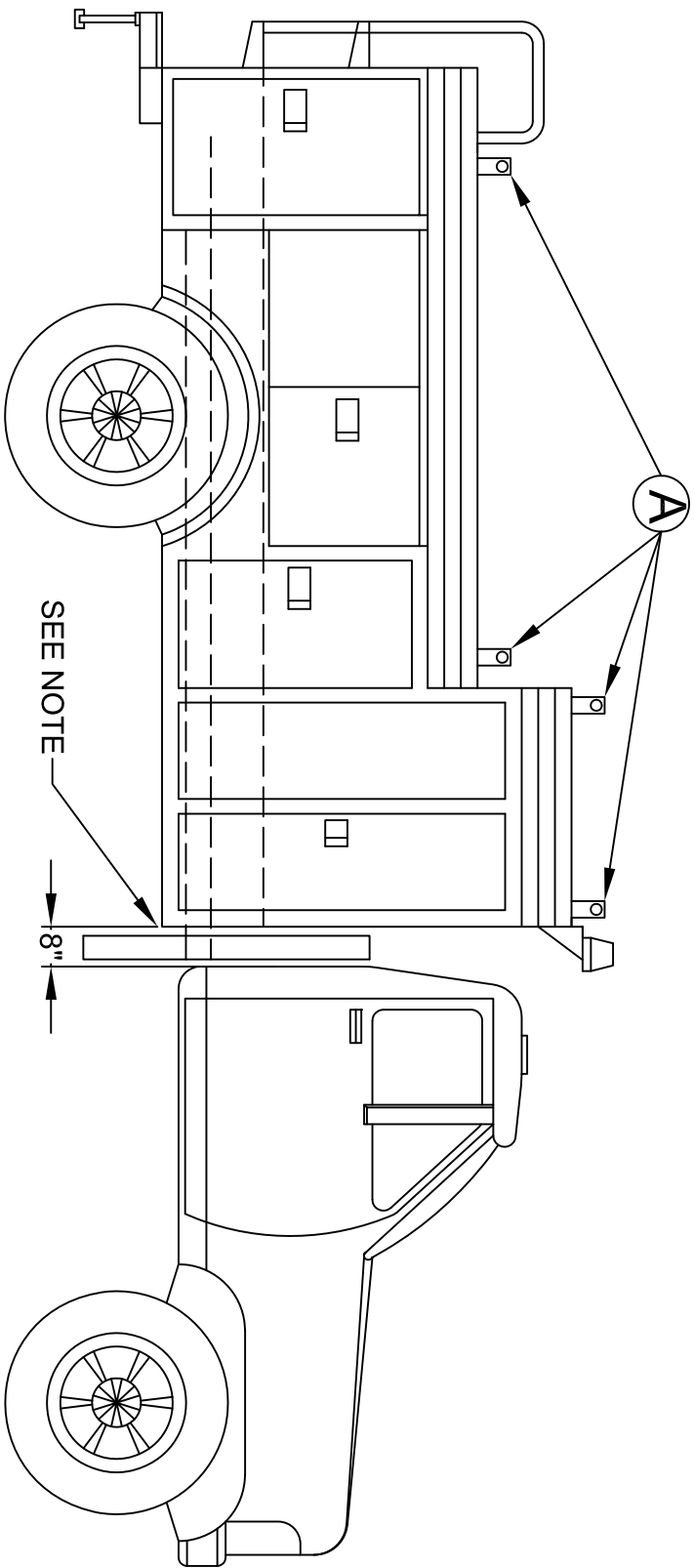
ADVANCED FLUID CONNECTORS..... 717-757-1068
 AIR BRAKE & POWER EQUIPMENT CO.. 717-622-6188
 AMERICAN BEARING & POWER..... 717-569-3291
 GOODALL RUBBER COMPANY 610-534-2100
 POWER DRIVES INC..... 814-833-8181
 R L MILLER INC..... 412-833-6800
 R L MILLER INC..... 814-456-8900
 SRG/BEVCO..... 610-358-3100
 VOTO MANUFACTURERS SALES CO.... 814-226-7101

FLOCS SHALL INCLUDE, BUT NOT LIMITED TO:

- A. DUST CAP 5657-12
- B. HOSE TO SUIT LENGTH
- C. HOSE FITTING TO SUIT
- D. ADAPTER TO SUIT
- E. HOSE CLAMP #900729-6
- F. BRACKET TO SUIT
- G. COUPLING 5602-12-12S

PA DEPARTMENT OF TRANSPORTATION

REVISIONS			FAST LUBE OIL CHANGE SYSTEM OVERVIEW AND PARTS LIST		
NO	DATE	BY	SCALE	CHK'D BY	
1	07-01-03	BLD	DLW	N/A	EQN-351A
2	10-20-06	CJW			
3	06-19-13	JFM			



A 2" RUNG RAILING (WITH TOE GUARD), INTERCHANGEABLE FROM RIGHT TO LEFT SIDE. RIGHT SIDE (ONLY) INCORPORATES A PULL OUT EXTENSION. SHALL HAVE A POSITIVE SYSTEM OF LOCKING - FULL IN / FULL OUT.

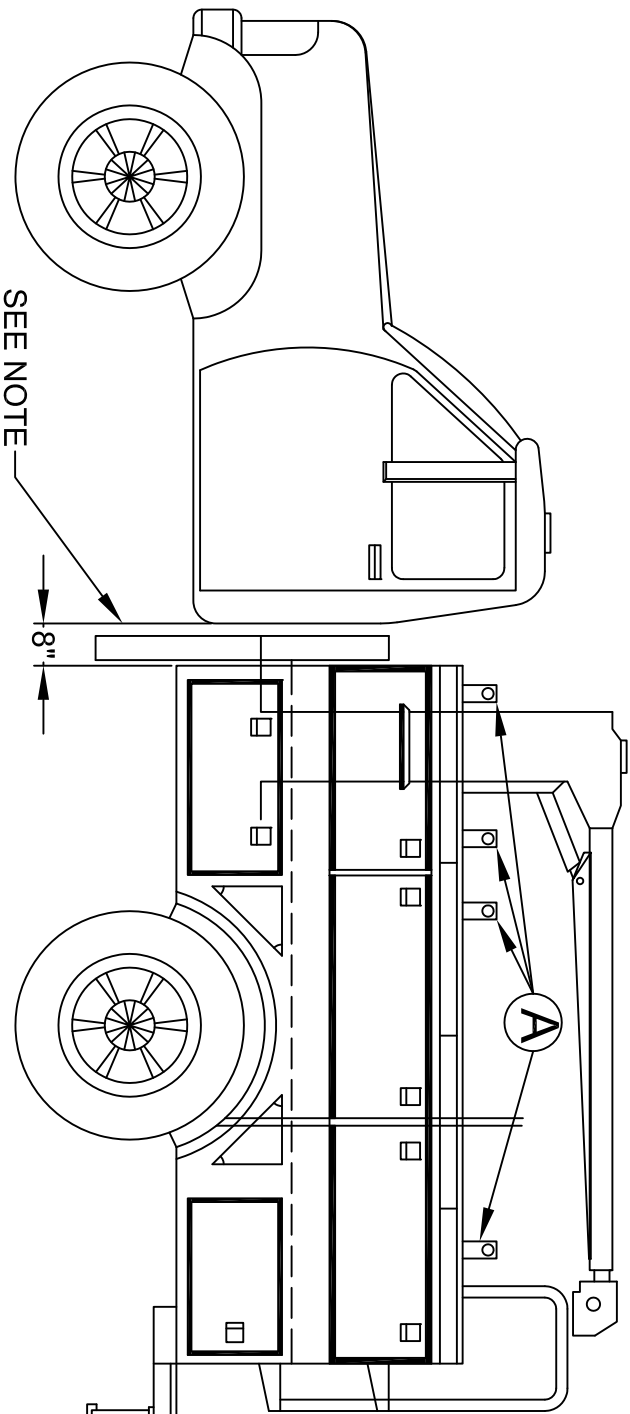
- SIGN CREW TRUCK (TYPE I)
GENERAL SPECIFICATIONS
- ELECTRIC & HYDRAULIC POWER TO OPERATE EQUIPMENT
 - HYDRAULIC POUNDER & PULLER
 - UTILITY CARGO BOX

NOTE:OUTRIGGERS WILL NOT BE INSTALLED ON TYPES I & II. THE CARGO BOX WILL BE EXTENDED 8" FOR ADDITIONAL STORAGE OR AN ADDITIONAL COMPARTMENT WILL BE ADDED TO STORE LARGER SIGNS ACROSS THE ENTIRE WIDTH OF THE CAB.

PA DEPARTMENT OF TRANSPORTATION

SIGN TRUCK

REVISIONS			
NO.	DATE	BY	
1	08-04-08	MHH	
2	09-28-11	TOD	DRAWN BY DLW SCALE N/A
3	08-29-14	ACT	DATE 10-24-97 CHG'D BY WHM SHEET 1 OF 8



SEE NOTE

8"

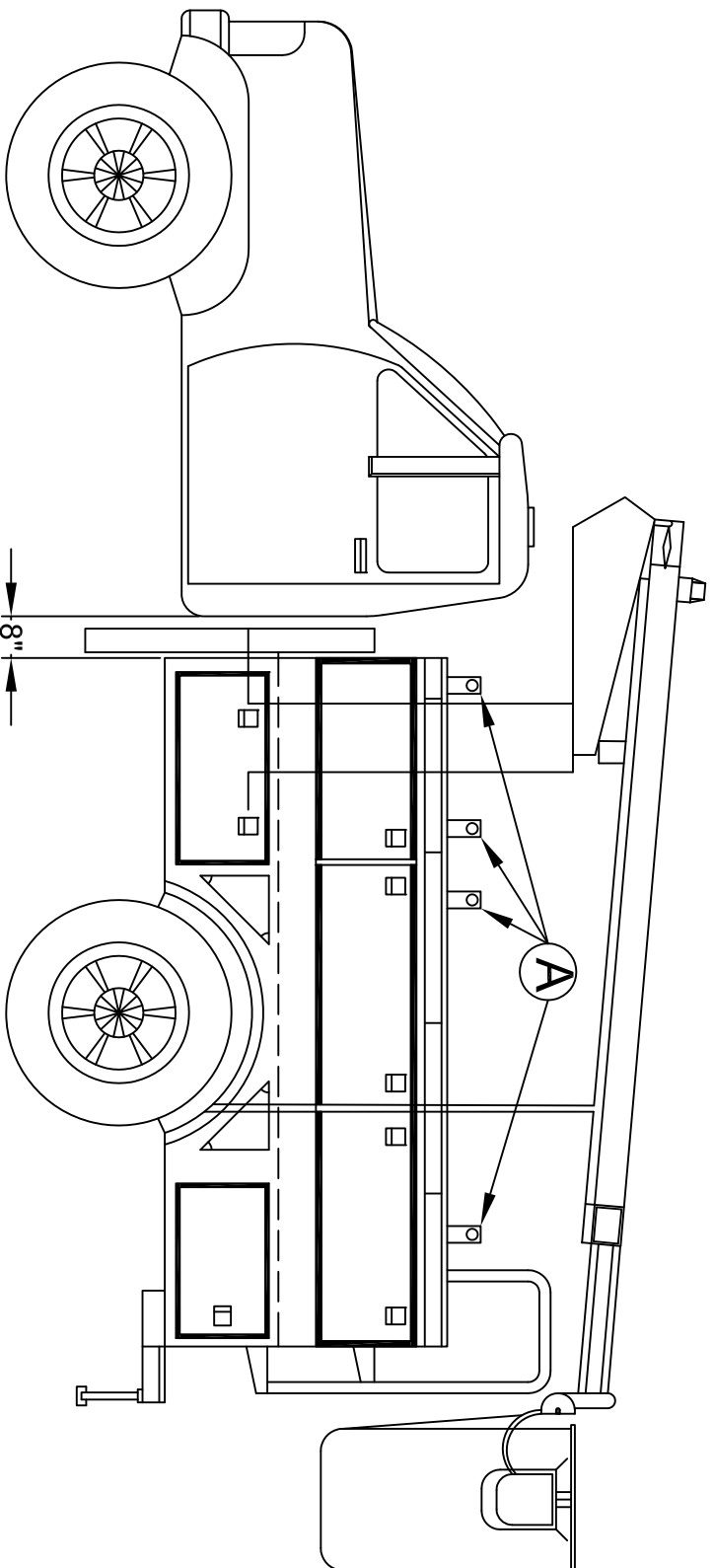
NOTE: OUTRIGGERS WILL NOT BE INSTALLED ON TYPES I & II. THE CARGO BOX WILL BE EXTENDED 8" FOR ADDITIONAL STORAGE OR AN ADDITIONAL COMPARTMENT WILL BE ADDED TO STORE LARGER SIGNS ACROSS THE ENTIRE WIDTH OF THE CAB.

SIGN CREW TRUCK (TYPE II)
GENERAL SPECIFICATIONS

- ELECTRIC & HYDRAULIC POWER TO OPERATE EQUIPMENT
- HYDRAULIC POUNDER & PULLER
- UTILITY CARGO BOX

PA DEPARTMENT OF TRANSPORTATION
SIGN TRUCK

REVISIONS			
NO.	DATE	BY	
1	08-04-08	MHH	
2	09-28-11	TOD	DRAWN BY DLW SCALE N/A EQN-483
3	08-29-14	ACT	DATE 10-24-97 CHECKED BY WHM SHEET 2 OF 8



**SIGN CREW TRUCK (TYPE III) WITH LIFT BUCKET
GENERAL SPECIFICATIONS**

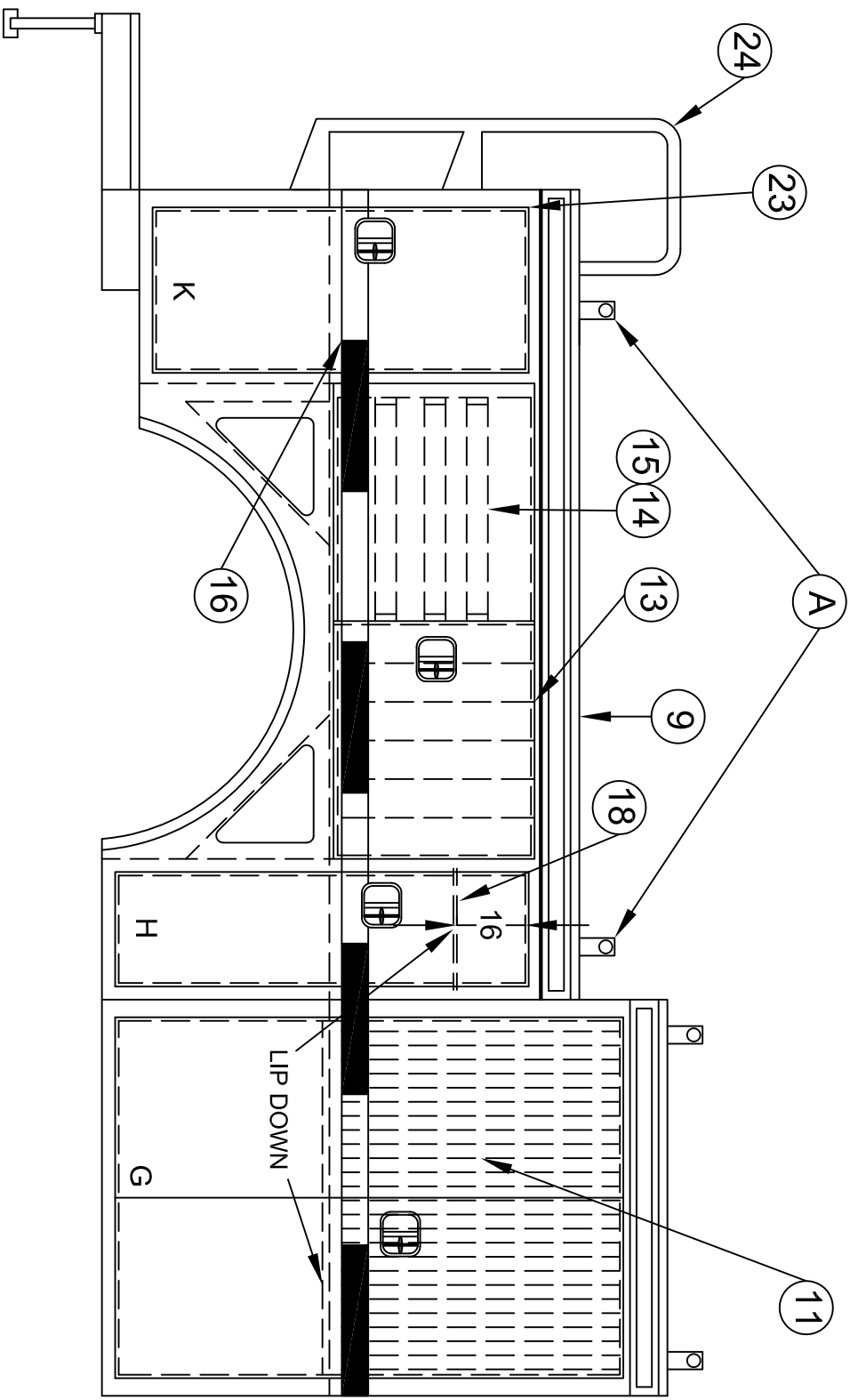
- ELECTRIC & HYDRAULIC POWER TO OPERATE EQUIPMENT
- HYDRAULIC POUNDER & PULLER
- UTILITY CARGO BOX

**NOTE:
SEE WRITTEN SPECIFICATIONS
FOR STAHL AND WARNER BODY**

PA DEPARTMENT OF TRANSPORTATION

REVISIONS		SIGN TRUCK	
NO.	DATE	BY	
1	08-04-08	MHH	
2	09-28-11	TOD	
3	08-29-14	ACT	

DRAWN BY	DLW	SCALE	N/A	EQN-483
DATE	10-24-97	CHK'D BY	WHM	SHEET 3 OF 8



REFLECTORIZED 2" WIDE MARKING SHALL BE APPLIED.
 MATERIAL SHALL BE RED / SILVER CONTINUOUS
 BACKING REFLEXITE CONSPICUITY II SYSTEM OR 3H
 SCOTCHLITE CONSPICUITY SHEETING SERIES 980.

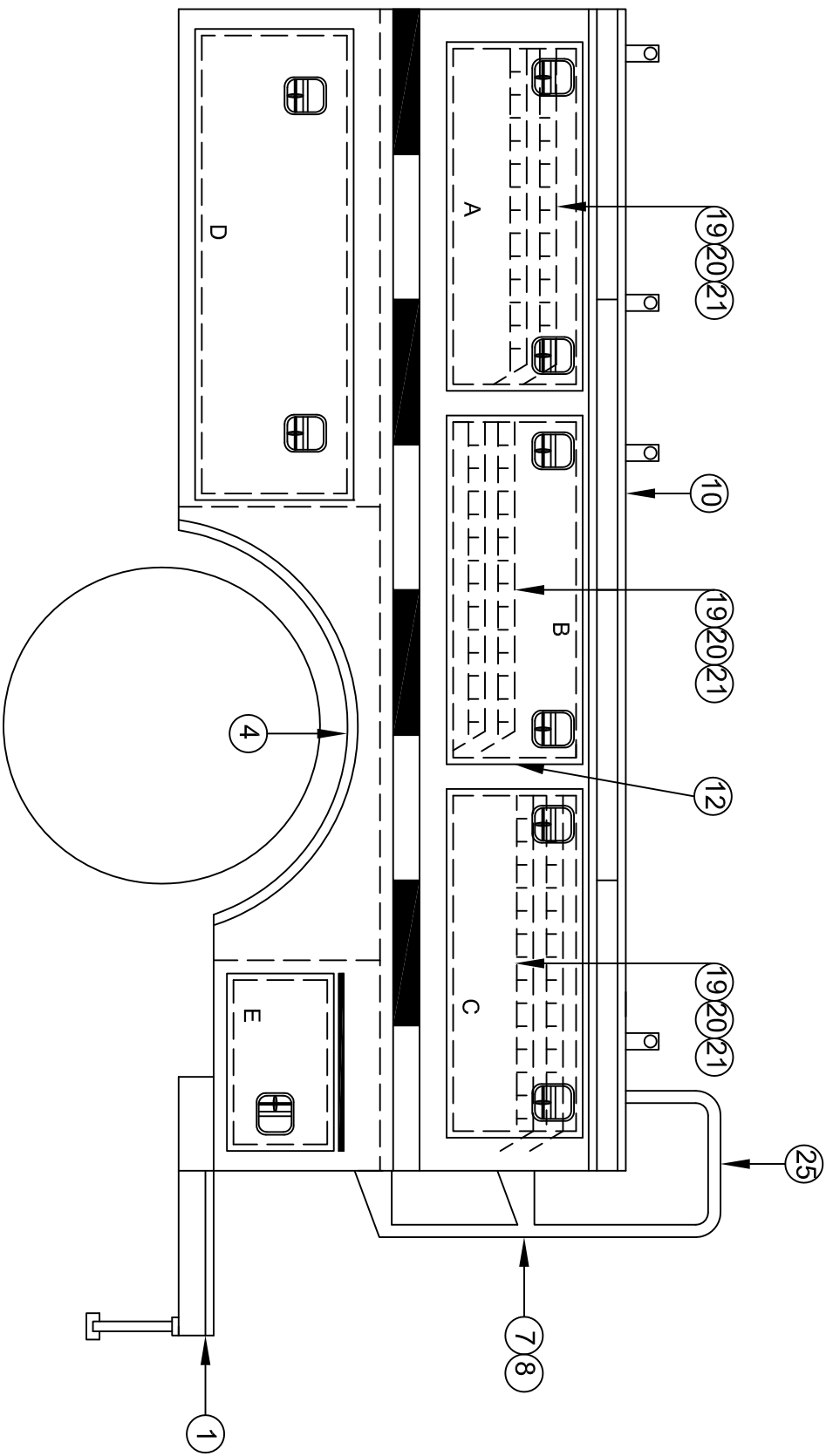
PA DEPARTMENT OF TRANSPORTATION

REVISIONS

NO.	DATE	BY	SCALE
1	08-04-08	MHH	N/A
2	09-28-11	TOD	N/A
3	08-29-14	ACT	N/A

SIGN TRUCK

NO.	DATE	BY	SCALE
1	08-04-08	MHH	N/A
2	09-28-11	TOD	N/A
3	08-29-14	ACT	N/A



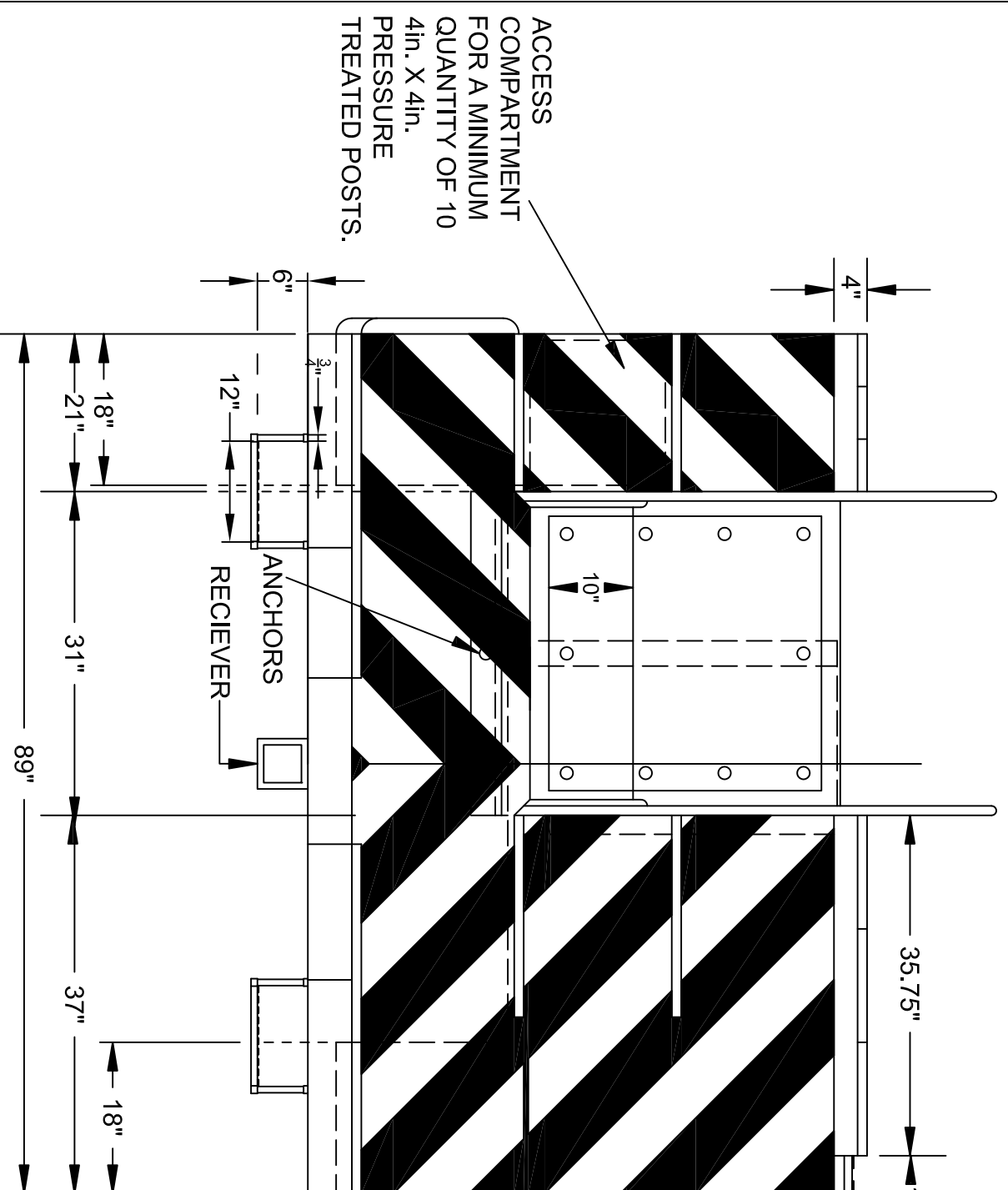
PA DEPARTMENT OF TRANSPORTATION

SIGN TRUCK

REVISIONS			
NO.	DATE	BY	
1	08-04-08	MHH	
2	09-28-11	TOD	
3	08-29-14	ACT	

NO.	DATE	BY	SCALE	
1	08-04-08	MHH	N/A	EQN-483
2	09-28-11	TOD		
3	08-29-14	ACT		

DRAWN BY DLW
 CHECKED BY WHM
 DATE 10-24-97
 SHEET 5 OF 8



PULL OUT PLATFORM
 Platform shall be able to be unlocked, pulled out and locked from the ground at a standing position with out entering the bed to unlock.

RECEIVER SHALL BE EQN-202B (LOCATION SHALL BE DETERMINED BY HEIGHT OF BUMPER). THERE SHALL BE A TRAILER CONNECTOR PER EQN-81A. EQN-80A SHALL BE USED AS A GUIDELINE FOR WIRING.

PA DEPARTMENT OF TRANSPORTATION

REVISIONS		SIGN TRUCK	
NO.	DATE	BY	
1	08-04-08	MHH	
2	09-28-11	TOD	
3	08-29-14	ACT	

		DRAWN BY	DLW	SCALE	N/A	EQN-483
		DATE	10-24-97	CHK'D BY	WHM	SHEET 6 OF 8

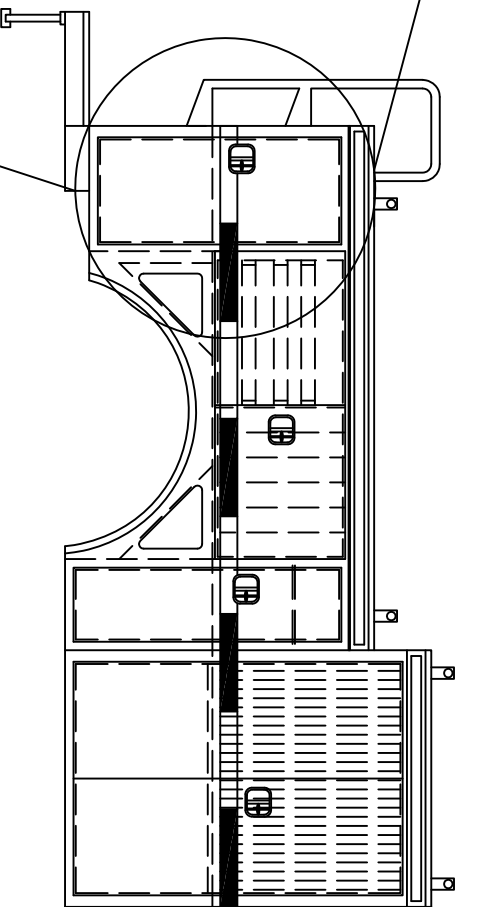
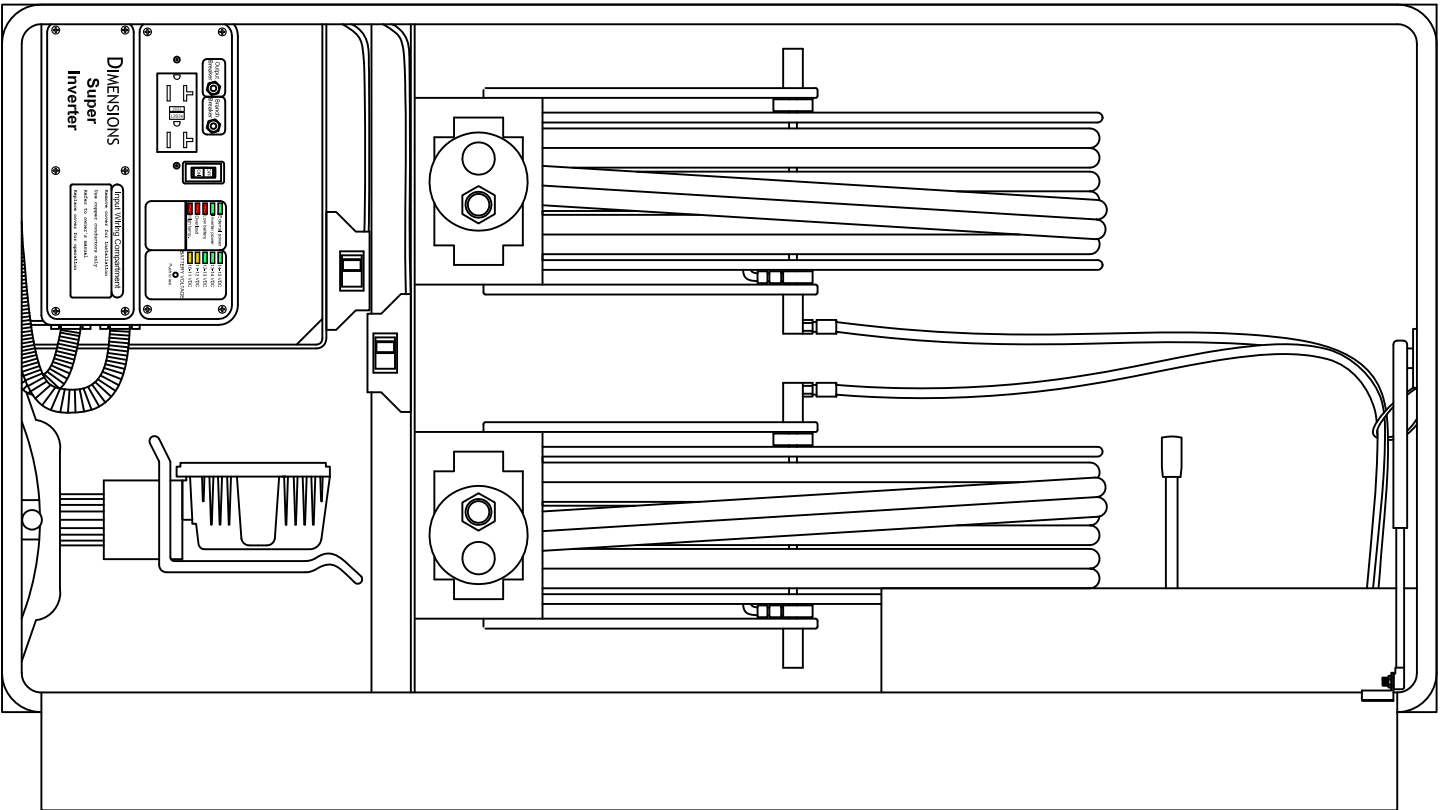
1. TOP PANELS & REAR END PANELS SHALL BE A MINIMUM OF 14 GA. ALL OTHER BODY PANELS SHALL BE A MINIMUM OF 16 GA. RUST RESISTANT STEEL.
2. SIDE DOORS SHALL BE DOUBLE PANELED, WITH BUILT IN DRAINAGE. DOORS SHALL HAVE MIN. 18 GA. OUTER SKIN AND MIN. 20 GA. INNER PANEL OF RUST RESISTANT STEEL. PIANO HINGE IS UNNACCEPTABLE FOR SIDE PANELS. THERE SHALL BE STEEL HINGE RODS EXTENDING THE ENTIRE LENGTH OF EACH SIDE DOOR.
3. DOORS SHALL HAVE RECESSED SLAM ACTION (ROTARY) LOCKS KEYED ALIKE, PER UNIT.
4. LOAD BED FLOOR SHALL BE A MIN. 12 GA. SAFETY TREADPLATE COATED WITH NON-SKID PAINT.
5. WHEEL WELLS SHALL BE FULLY LINED.
6. THERE SHALL BE RUBBER FENDERETTES.

25	2		GRAB RAIL
24	1		TOP HINGE (BACK TO BACK)
23	2		RUBBER DOOR BUMPER
22	2		SHELF REINFORCEMENT
21	4		SHELF REINF x 33.35
20			ADJUSTABLE DIVIDERS
19	4		ADJ. MAT'L TRAY
18	1		TANK HOLDER SHELF
17	1		FLAT PLATE DOOR
16	2		SPACER PANEL
15	3PR		GRANT TRACK
14	3		ROLL-OUT TRAYS
13	1		SIGN STORAGE COMP
12	3		SHELF CLIP INST
11	1		SIGN HOLDER ASSEMBLY
10	1		GRIPSTRUT PLATFORM
9	1		GRIPSTRUT PLATFORM
8	4		31514 GRIPSTUT x 20.0
7	8		GRIPSTRUT END PLATE
6	1		ACCESS PANEL
5	1		M/G PLATE
4	2		RUBBER FENDERETTE
3	1		4000 CRANE REINF.
2	1		TAILBOARD - DROP - IN
1	1		G/S "V" NOTCH BUMPER
ITEM	REQ	PART#	DESCRIPTION

NOTE:HANDRAILS SHALL HAVE NON SLIP SURFACE (TAPE IS UNNACCEPTABLE).

PA DEPARTMENT OF TRANSPORTATION

REVISIONS		SIGN TRUCK	
NO.	DATE	BY	
1	08-04-08	MHH	
2	09-28-11	TOD	DRAWN BY DLW SCALE N/A EQN-483
3	08-29-14	ACT	DATE 10-24-97 CHG'D BY WHM SHEET 7 OF 8



NOTES:

1. Two 50' hydraulic hose reels shall be mounted side by side to allow operators access to the quick couplers.
2. Inverter shall have a protective shell installed over the top and sides for protection.
3. Work light holder shall be mounted to the floor of the compartment.

PA DEPARTMENT OF TRANSPORTATION

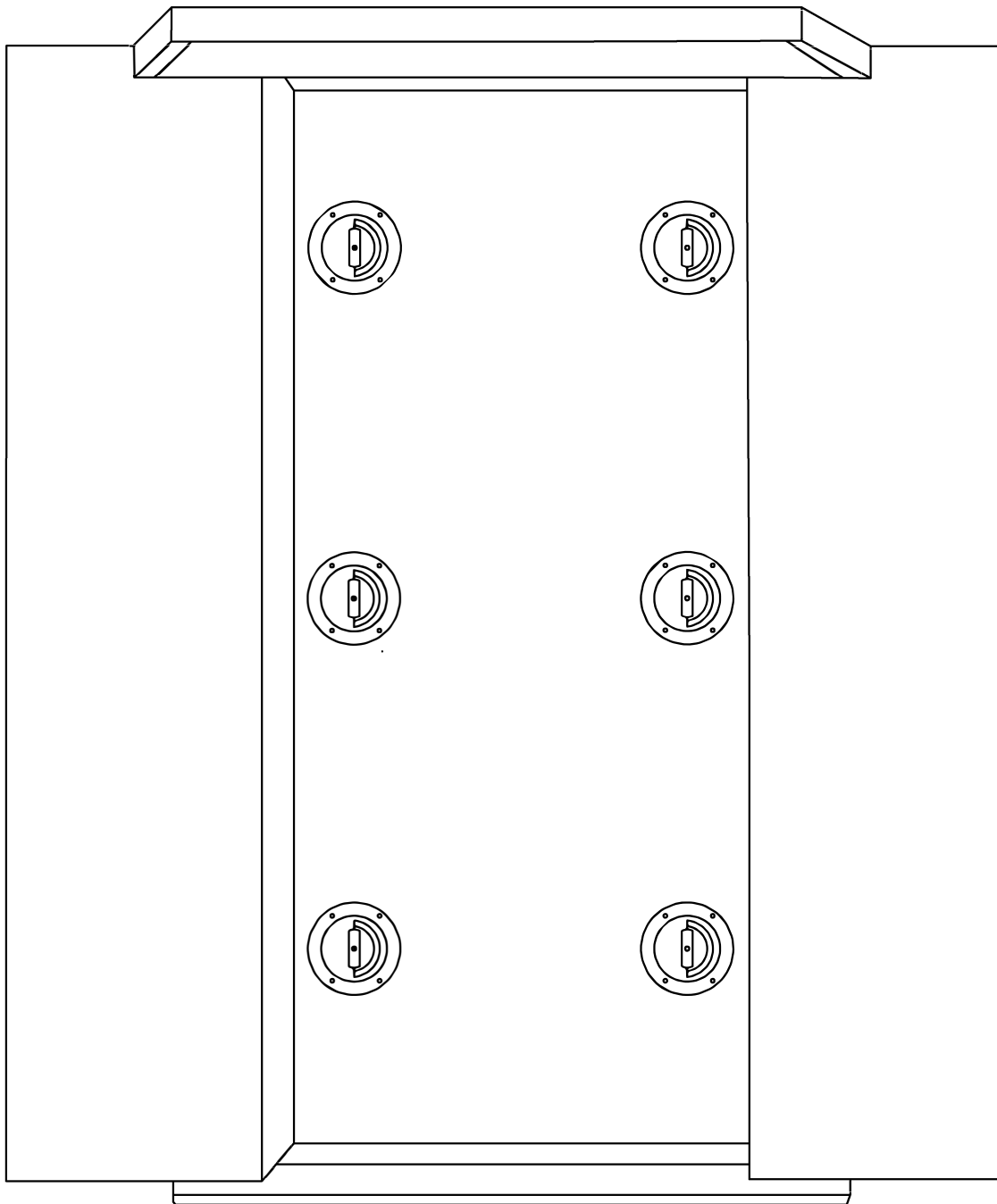
REVISIONS

NO.	DATE	BY
1		
2		
3		

SIGN TRUCK

REAR CABINET INSIDE

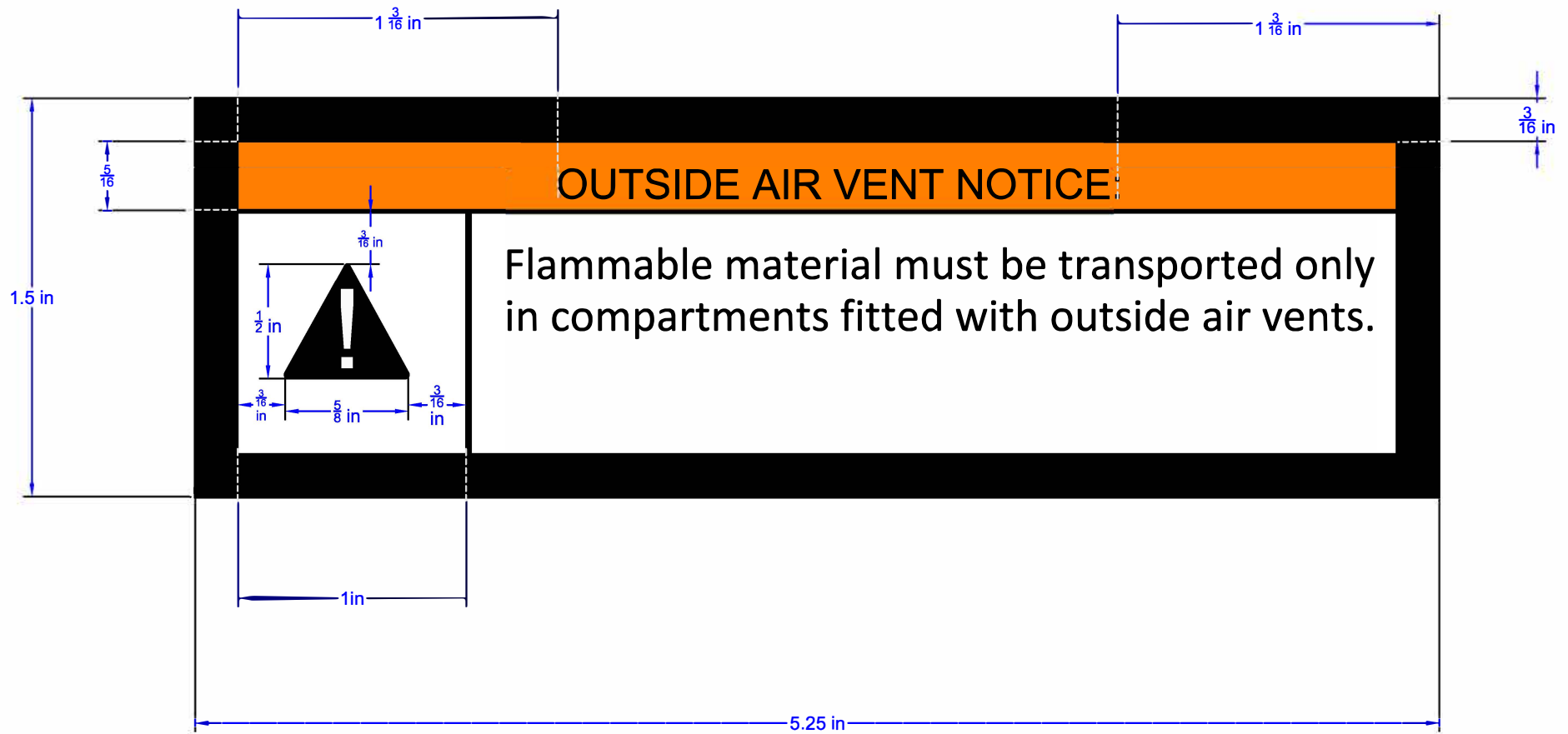
NO.	DATE	BY	DRAWN BY	SCALE	CHECKED BY	EQN-483
1			ACT	N/A		
2						
3						



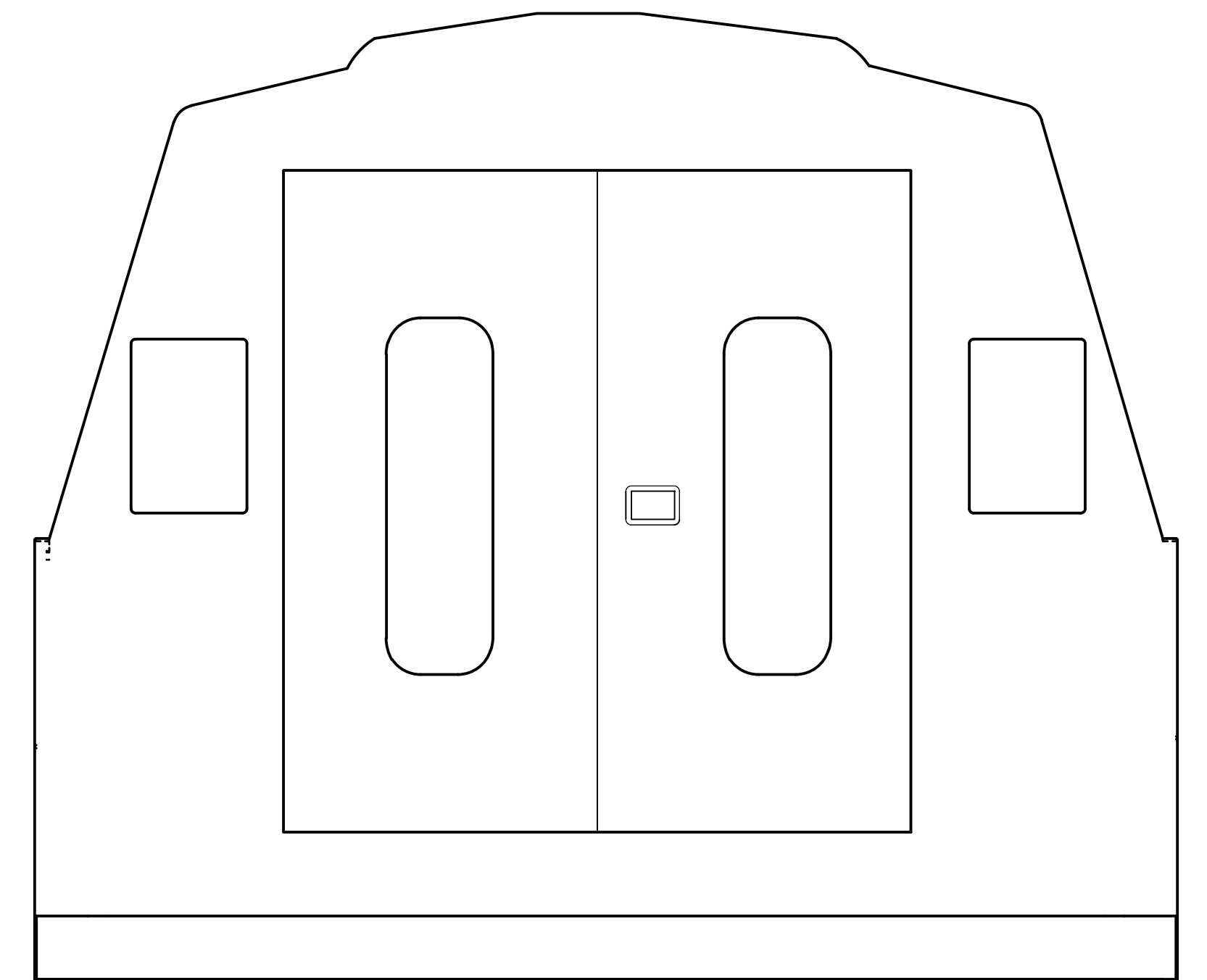
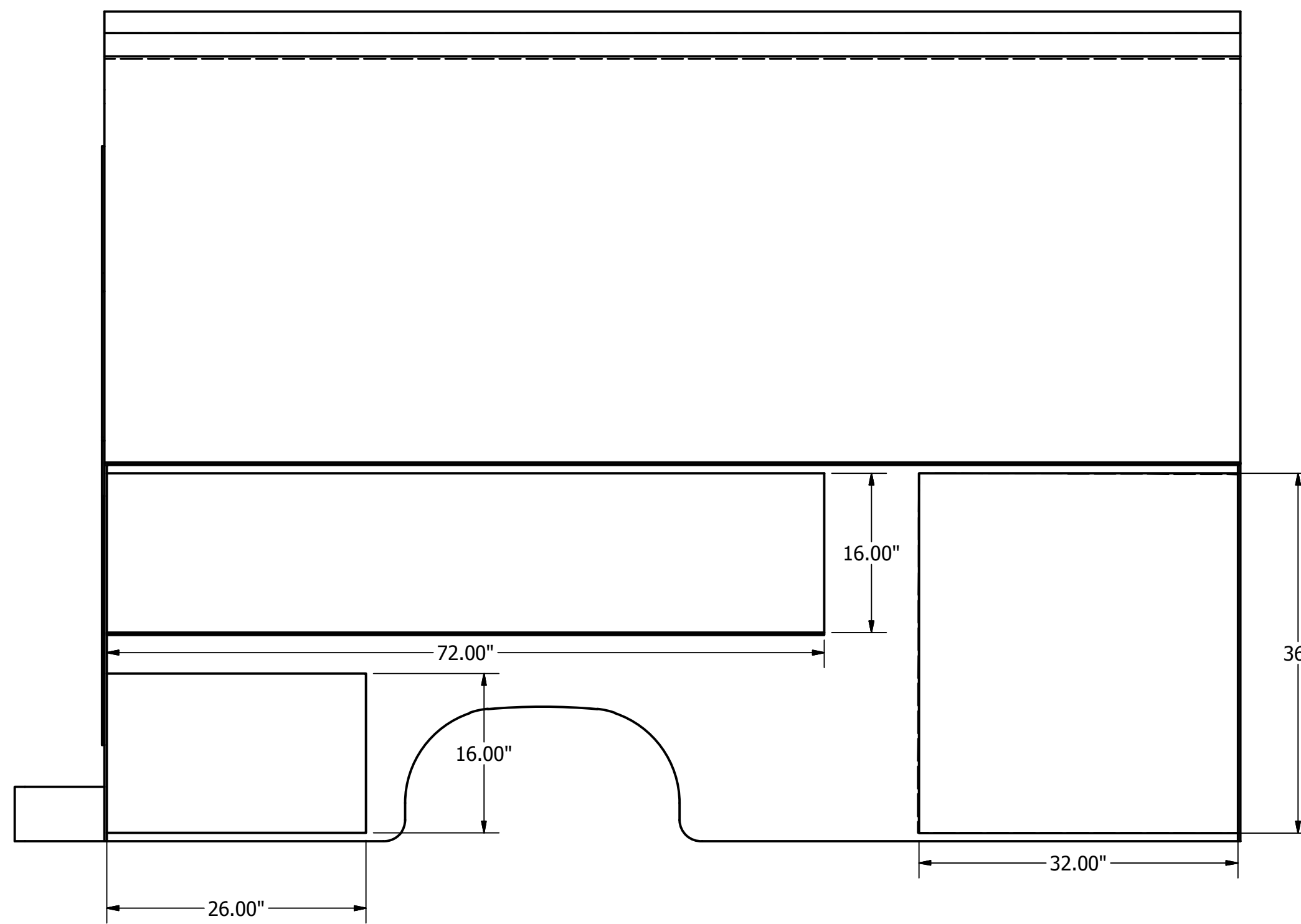
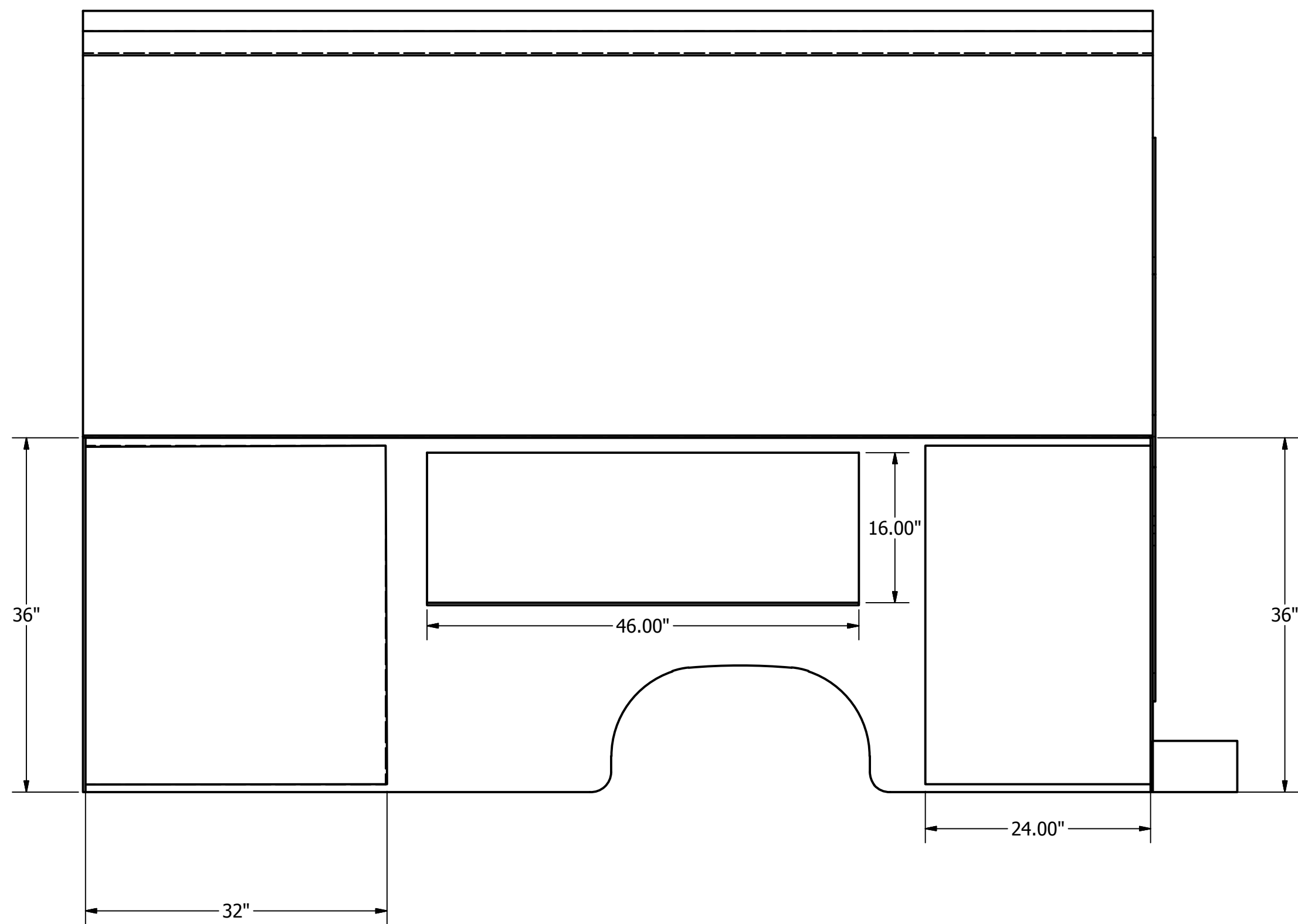
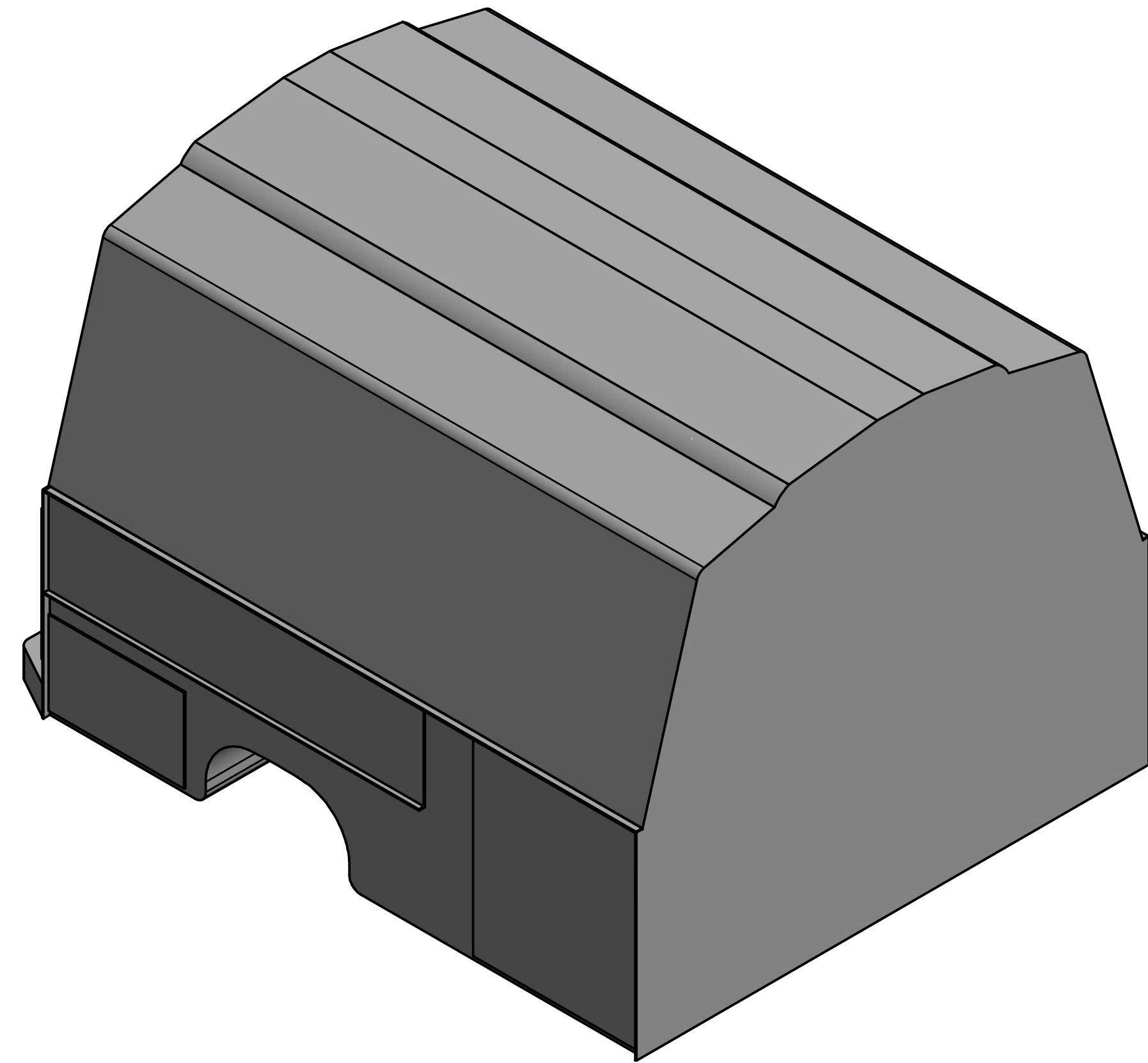
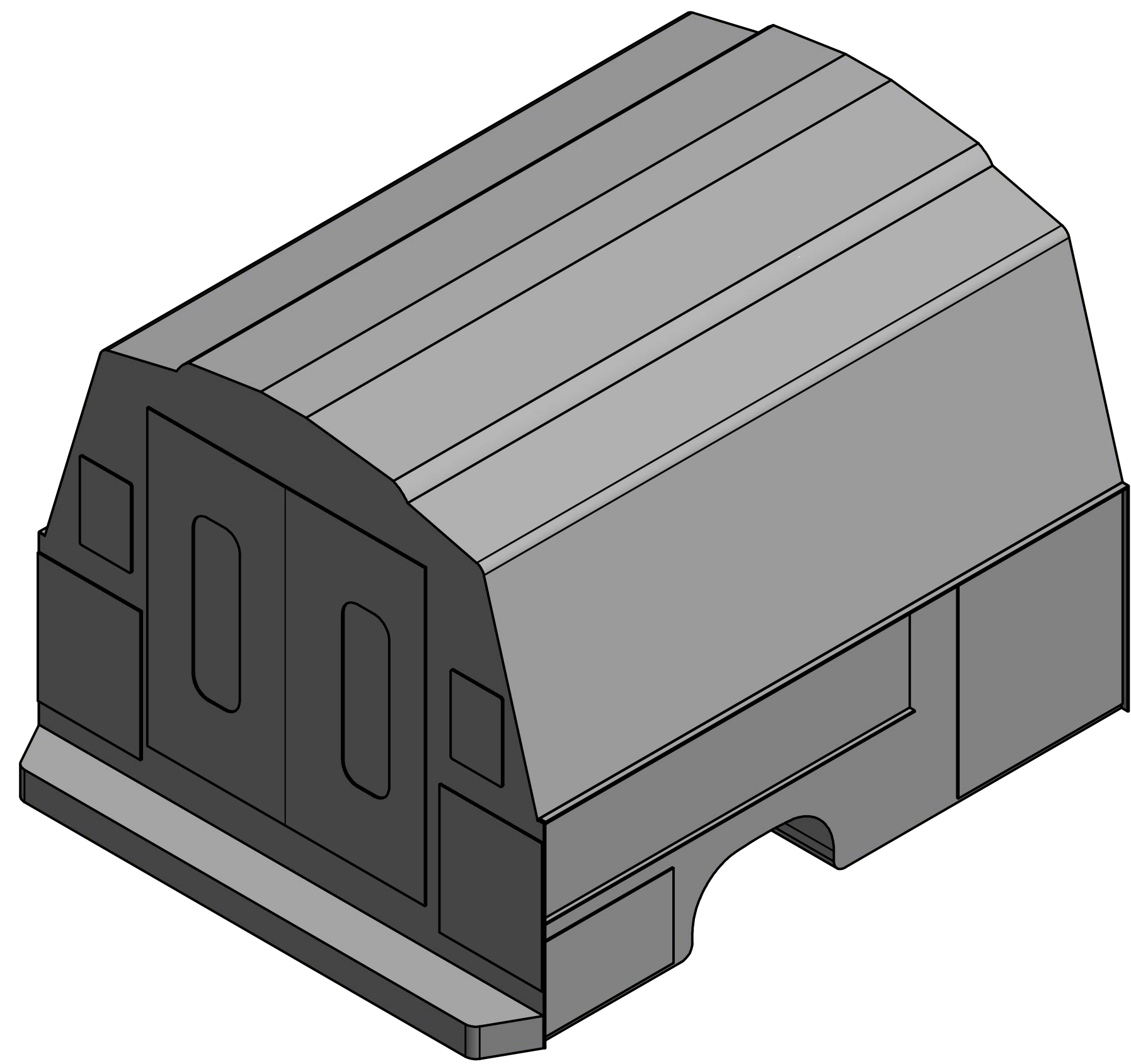
NOTE:
 D-Rings are evenly spaced on each side, the middle D-rings are evenly spaced between top and bottom set and placed at each cross member.

PA DEPARTMENT OF TRANSPORTATION

REVISIONS			Weldment 7108D46J	
NO.	DATE	BY	SCALE	
1				
2			DRAWN BY KBD	EQN-1083
3			DATE 5-24-18	CHK'D BY



PA DEPARTMENT OF TRANSPORTATION			
REVISIONS			Warning Sticker Inside
NO.	DATE	BY	
1			
2			
3			
DRAWN BY		KBD	SCALE
DATE		6-18-18	CHK'D BY
			EQN-1089-B



DRAWN	Kdesai	7/13/2018	PA DEPARTMENT OF TRANSPORTATION	
CHECKED			TITLE	
QA			Survey Body Steel	
MFG				
APPROVED				
			SIZE	DWG NO
			D	Survey Body-2018.pdf
				REV
			EON-1096 SHEET 1 OF 1	