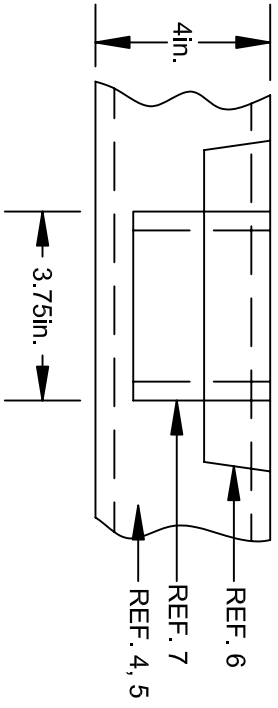


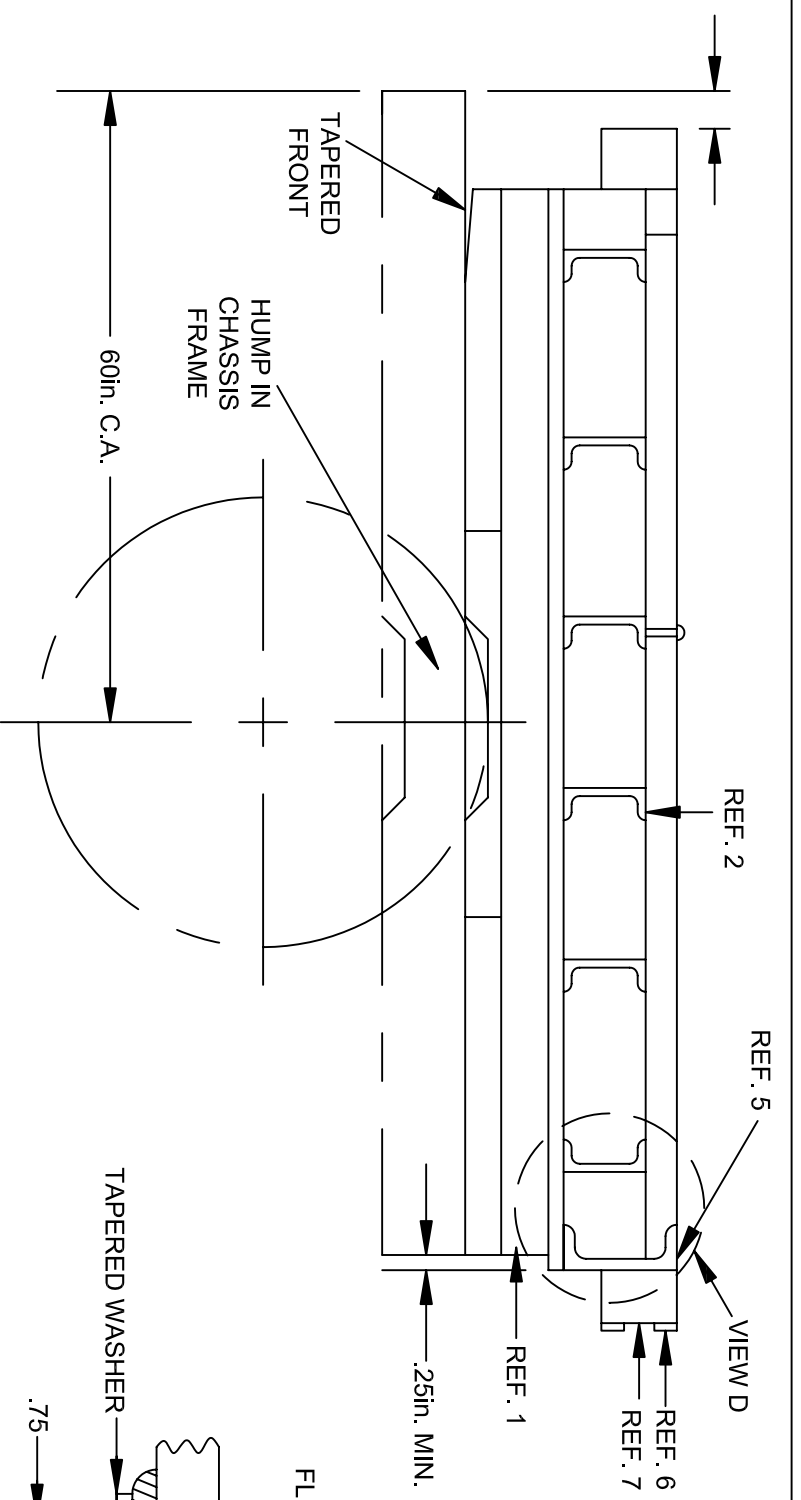
VIEW "A"



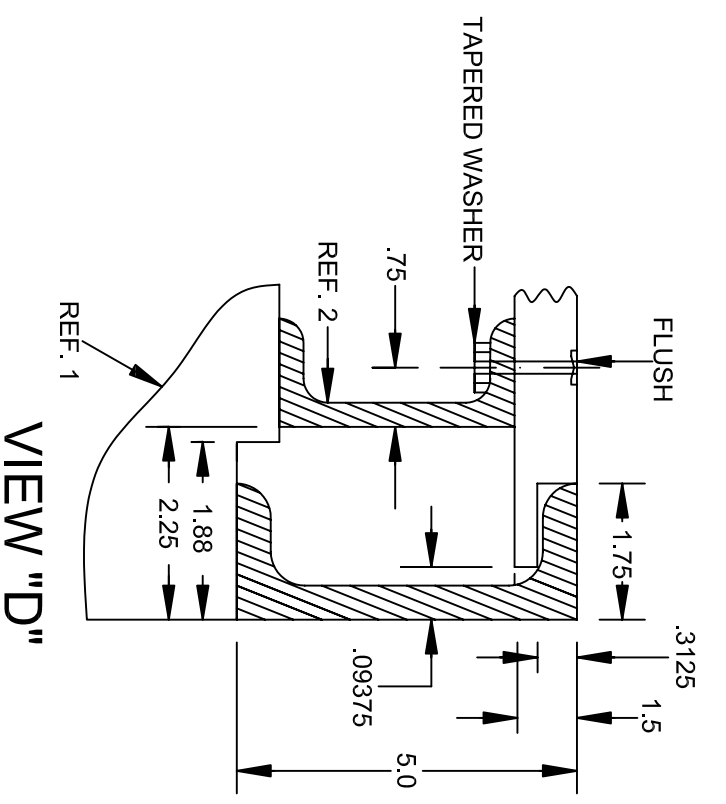
PA DEPARTMENT OF TRANSPORTATION

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			

CHECKED BY: KGK  
SHEET 1 OF 4

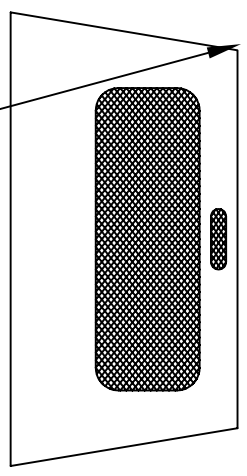


**NOTE:**  
ALL  
DIMENSIONS  
IN INCHES



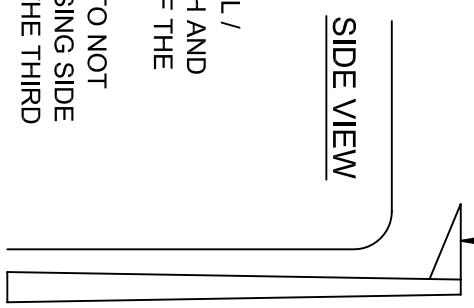
**VIEW "D"**

**BACK VIEW**



**WARNING LITE SHELF  
WITH GUSSET**

**SIDE VIEW**

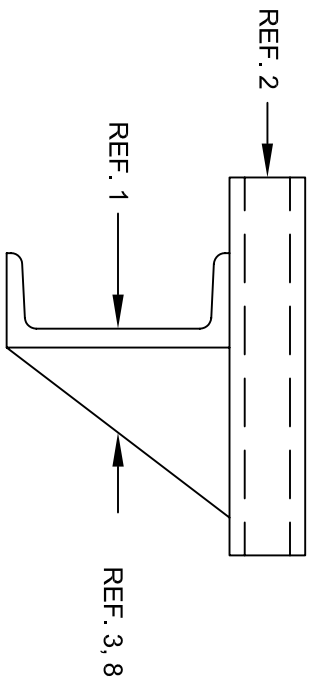
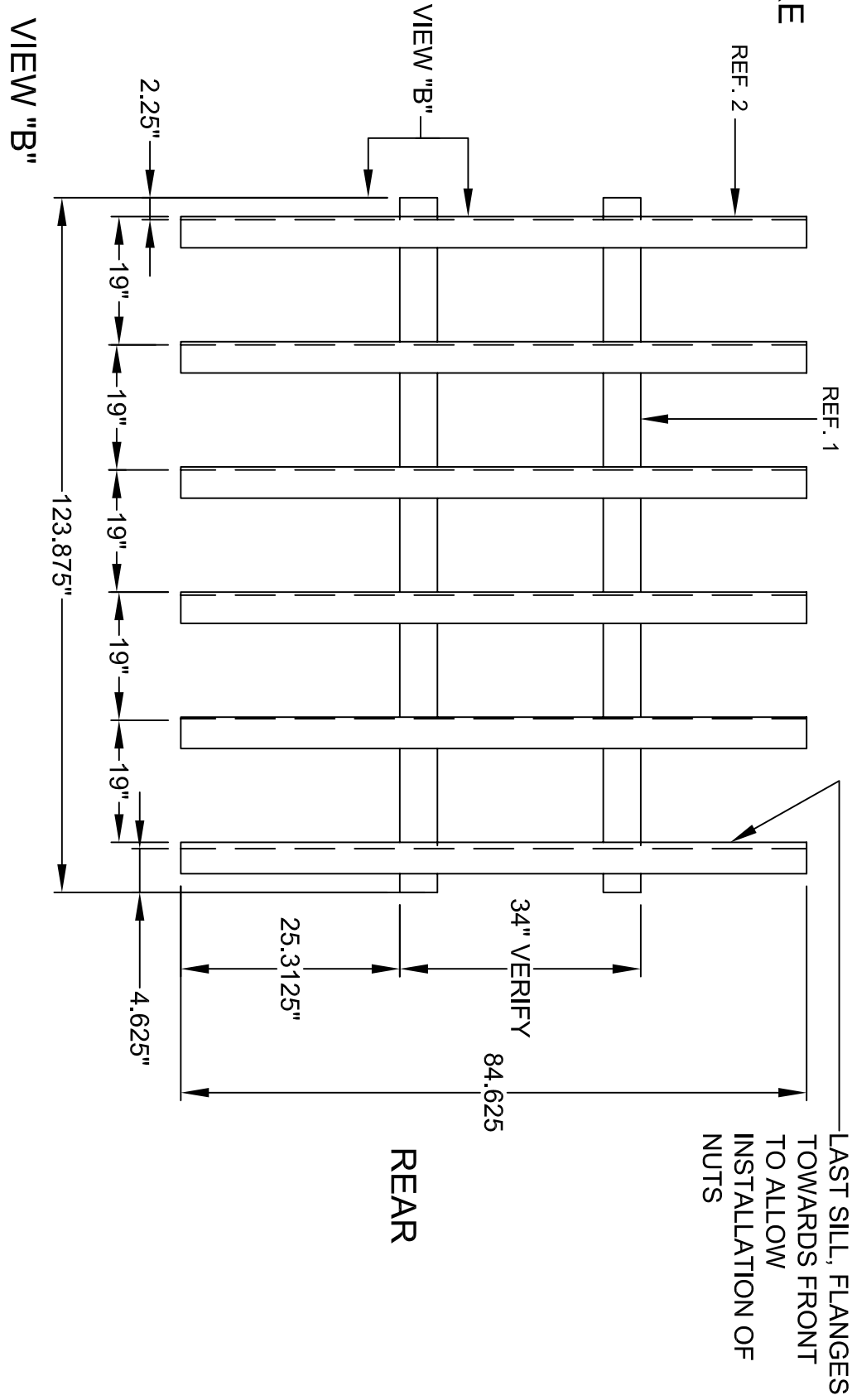


THE BULKHEAD EXPANDABLE METAL /  
PREPUNCHED SHALL BE FULL WIDTH AND  
HEIGHT WITH THE REAR WINDOW OF THE  
VEHICLE. BULKHEAD SHALL BE  
CONSTRUCTED IN SUCH A WAY AS TO NOT  
OBSTRUCT LINE-OF-SIGHT WHEN USING SIDE  
MIRRORS, REAR VIEW MIRROR OR THE THIRD  
BRAKE LIGHT.

**PA DEPARTMENT OF TRANSPORTATION**

REVISIONS			CREW CAB 17,000 & 11,000 GVWR TYPICAL FLAT BED BODY		
NO.	DATE	BY	DATE	SCALE	SHEET
1	05-04-07	CJW	12-17-97	N/A	2 OF 4
2	05-10-07	KNH			
3	08-01-08	MHH			
4					
5					

FLOOR STRUCTURE TOP VIEW



NOTE: ALL DIMENSIONS IN INCHES

PA DEPARTMENT OF TRANSPORTATION			
REVISIONS		CREW CAB 17,000 & 11,000	
NO.	DATE	BY	
1	05-04-07	CJW	GWWR TYPICAL FLAT BED BODY
2	05-10-07	KNH	
3	08-01-08	MHH	

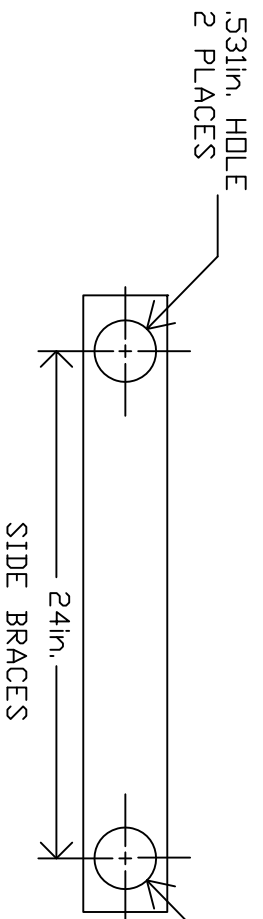
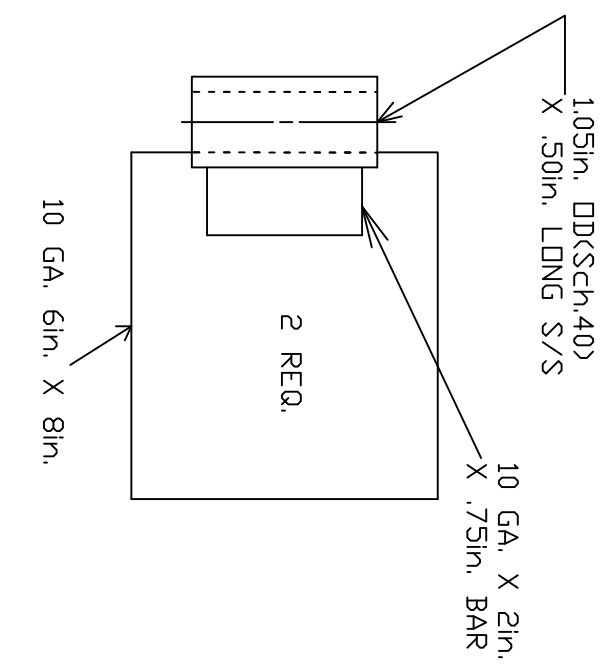
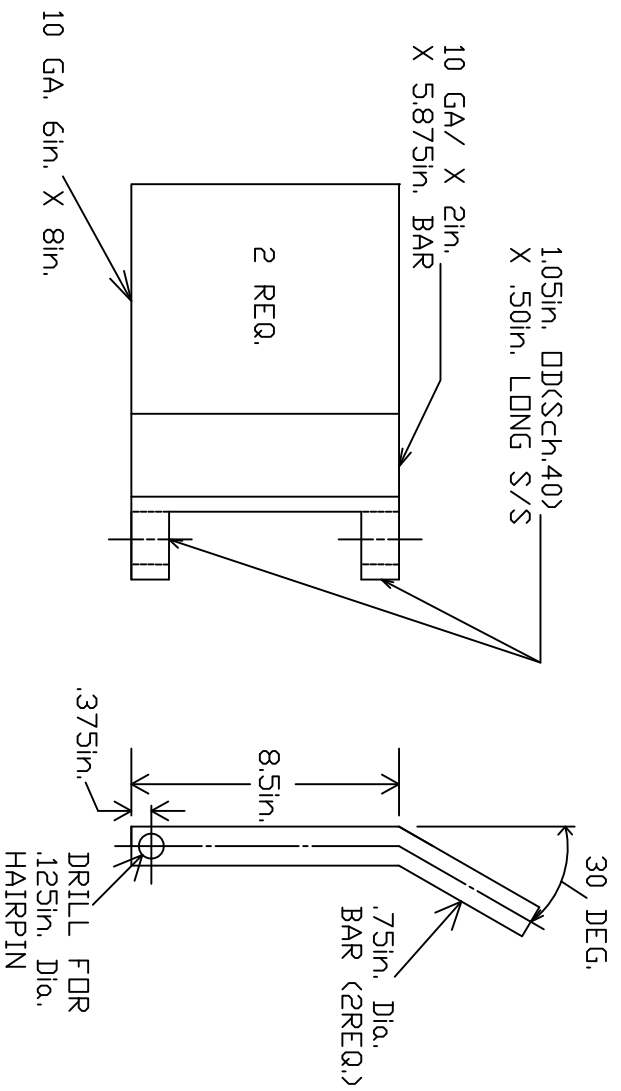
  

DATE	12-17-98	SCALE	N/A	EQN-2C
DRAWN BY	DLW	CHECKED BY	WHM	SHEET 3 OF 4

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	

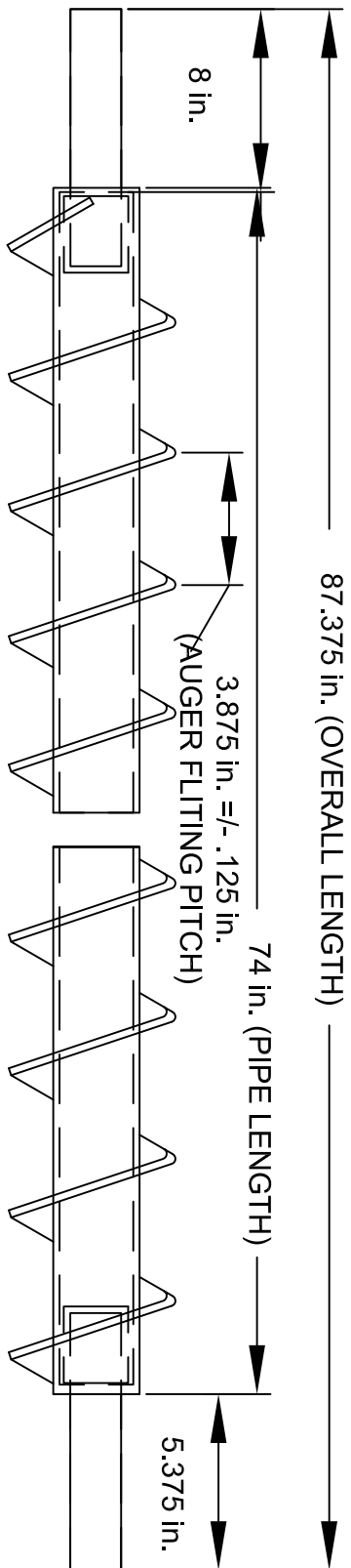


.125in. X 1.50in. X 26in. HANGER BRACE (2 REQ.) W/TWD (2) .50in. X 1.25in. STAINLESS STEEL BOLTS AND NUTS. DRILL FOR .125in. HAIR PIN (STAINLESS STEEL, LENGTH AS REQUIRED, QTY. 4).

- 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

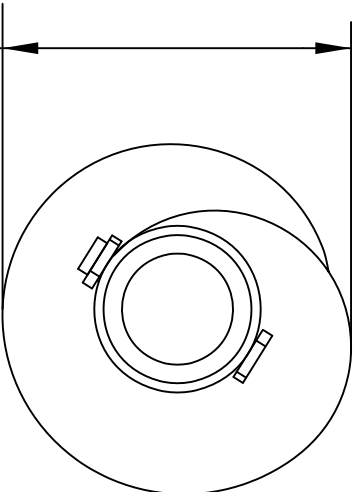
2 in. (2.375 O.D.)  
SCHEDULE 80 (.20 in. WALL)  
CARBON STEEL PIPE  
(PIPE SIZE E.R.W. TUBING ACCEPTABLE)

**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

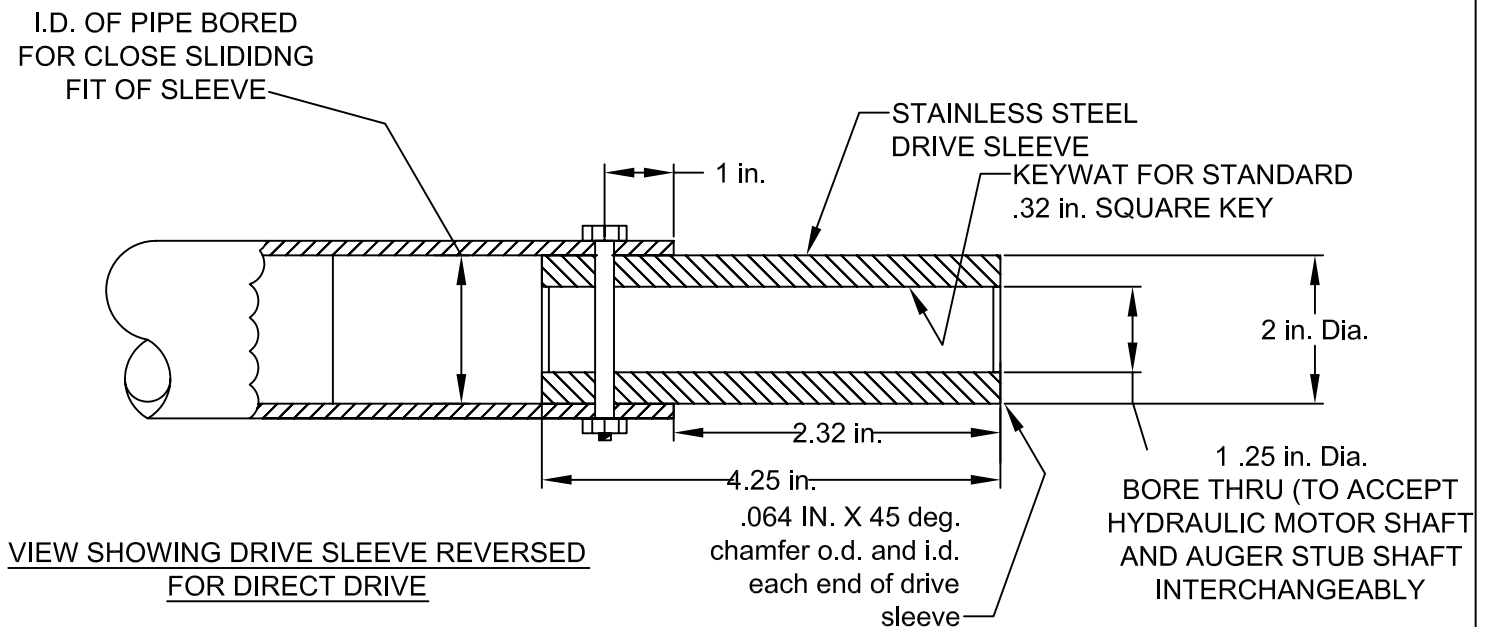
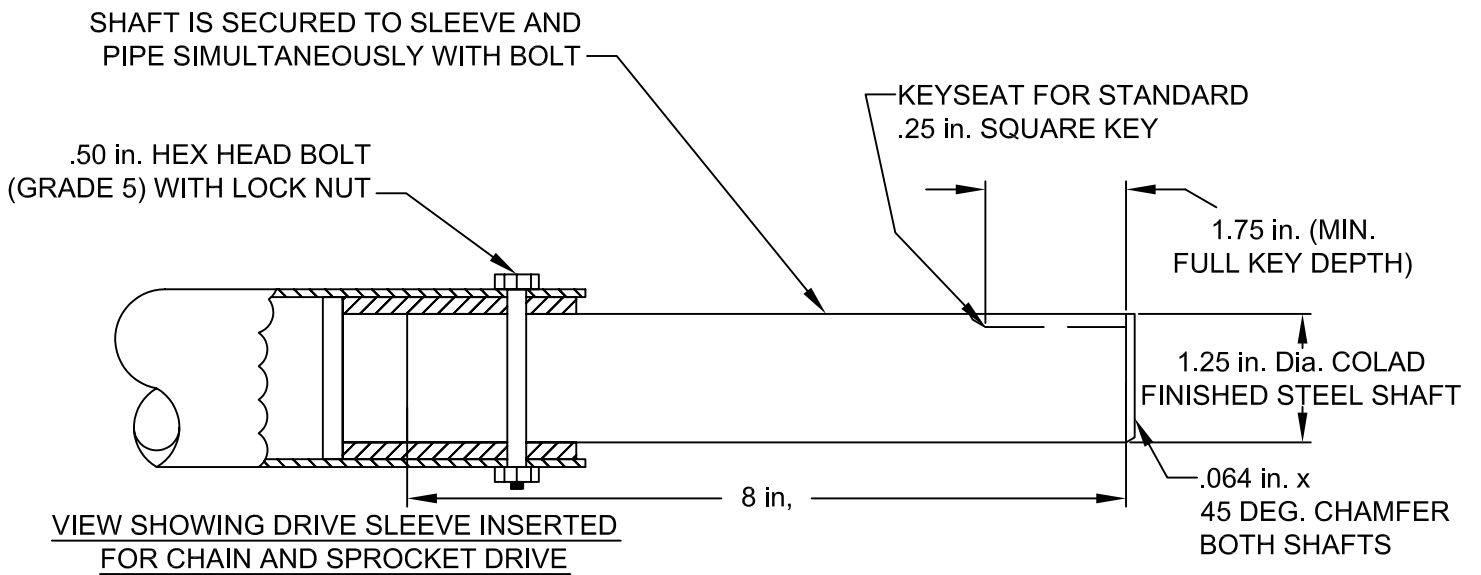
IMPLIED TOLERANCES DO NOT APPLY TO REFERENCE DIMENSIONS



**PA DEPARTMENT OF TRANSPORTATION**

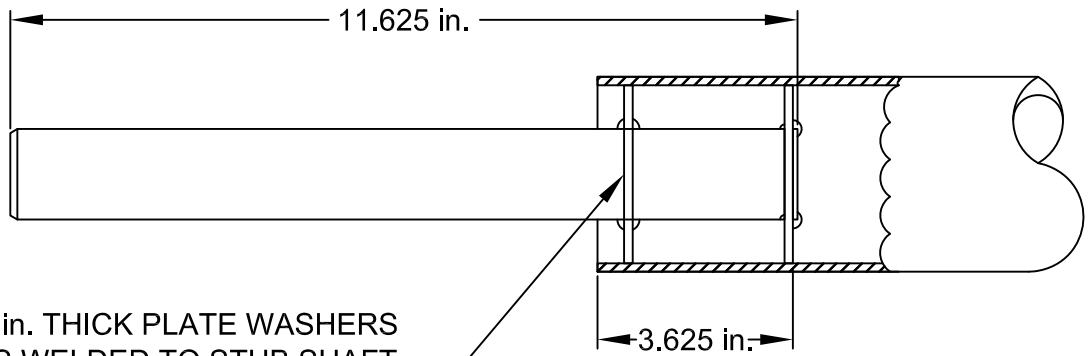
REVISIONS		Penndot SPREADER AUGER DETAIL (S/S & RUBBER TROUGH)	
NO.	DATE	BY	
1	01-09-98	DLW	
2	05-28-02	DWG	
3	9-14-07	BAG	

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



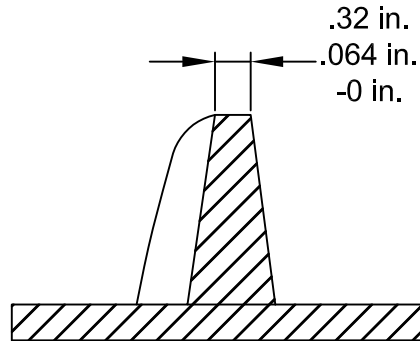
PA DEPARTMENT OF TRANSPORTATION

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**

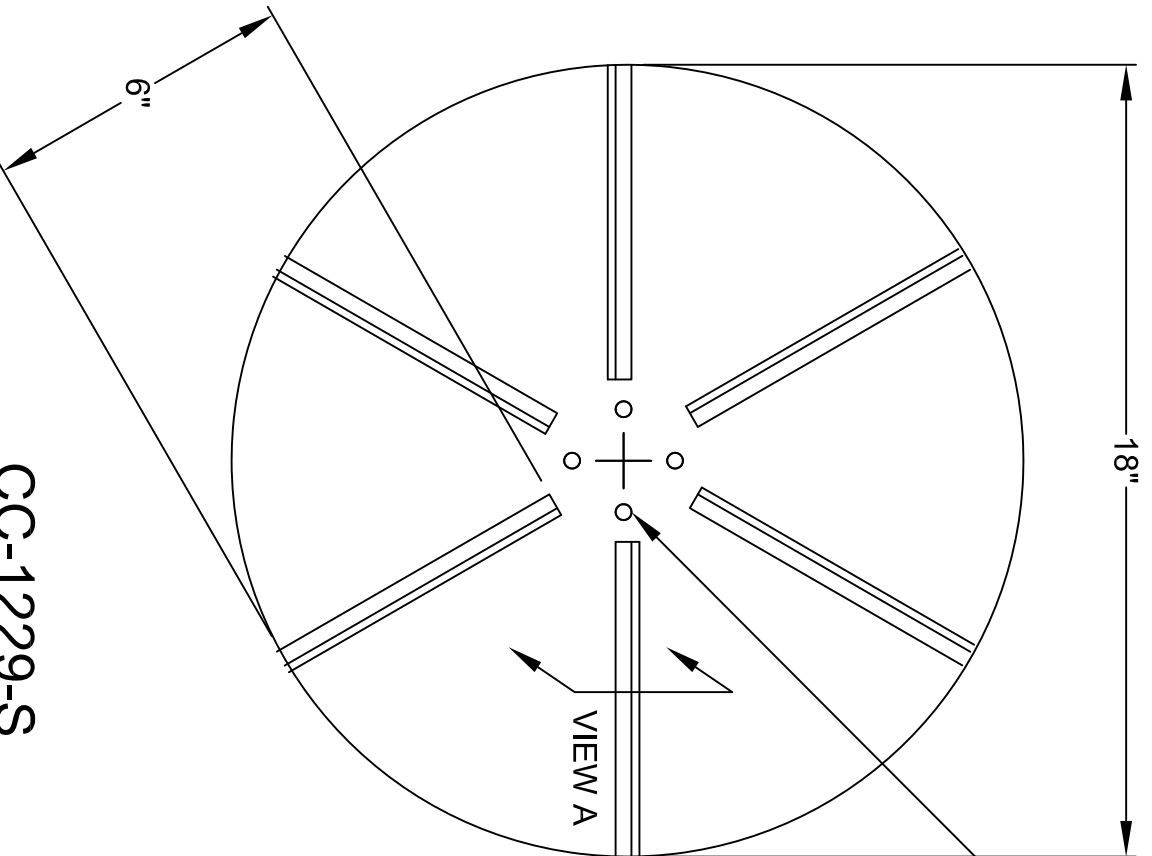
**REVISIONS**

NO.	DATE	BY
1	1-09-98	DLW
2	05-28-02	DWG
3	09-20-07	BAG

PennDOT SPREADER AUGER DETAIL  
(S/S & RUBBER THROUGH)

DRAWN BY	DLW	SCALE	N/A	EQN-6
DATE	01-09-98	CHK'D BY	WHM	SHEET 3 OF 3



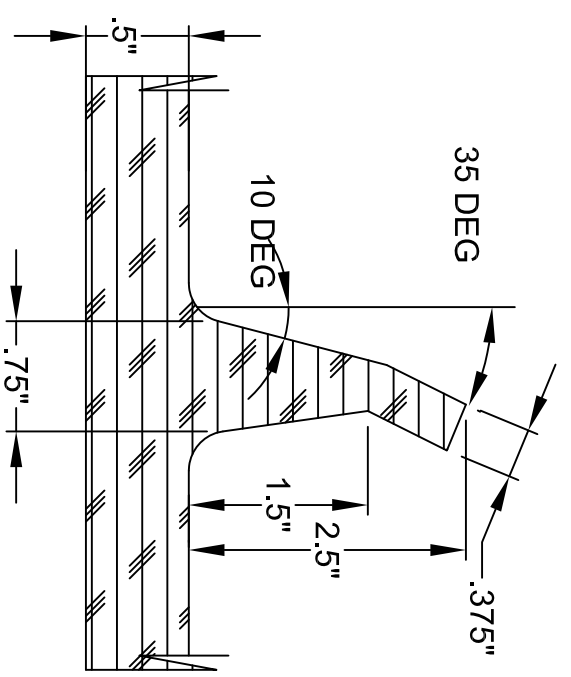


CC-1229-S

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

.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.

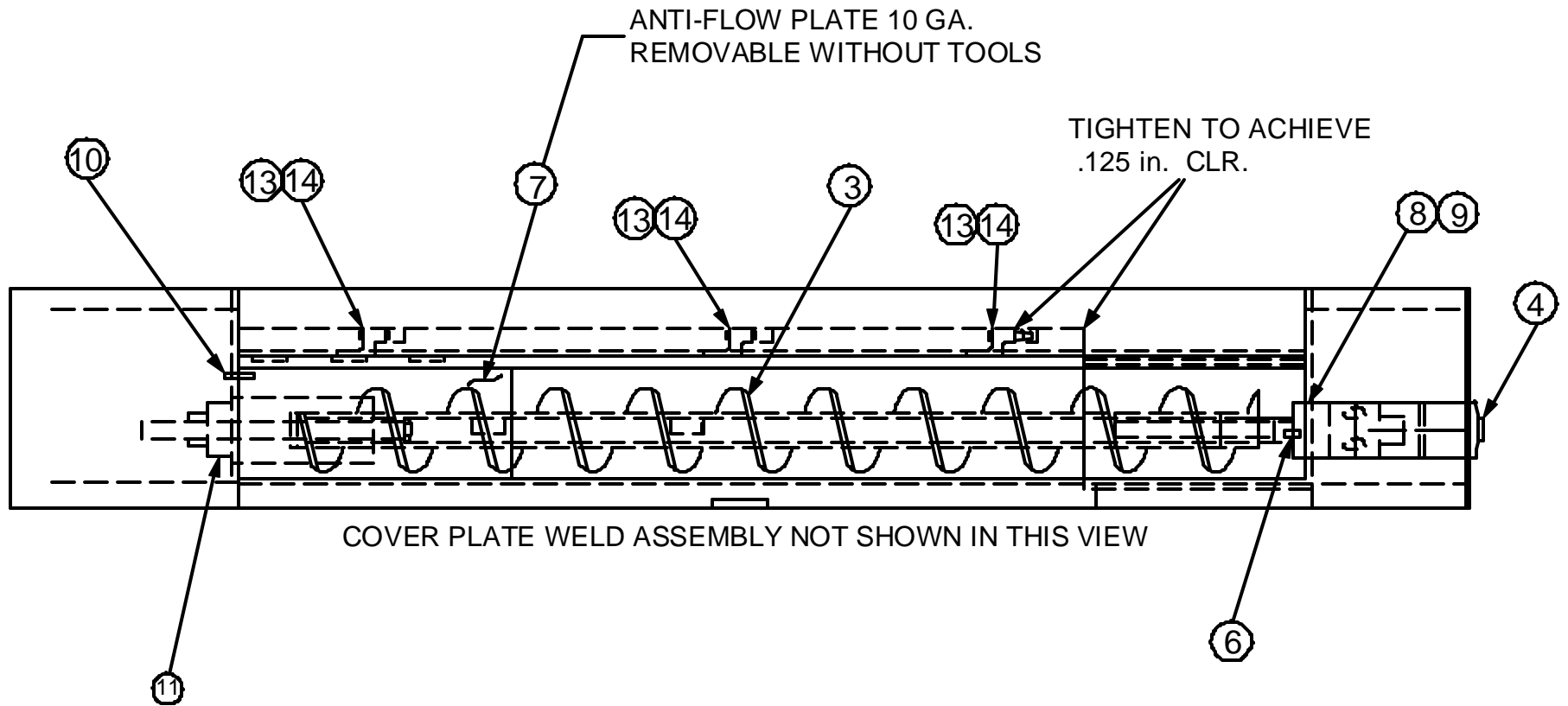


PA DEPARTMENT OF TRANSPORTATION

REVISIONS		SPINNER / SPREADER TAILGATE URETHANE	
NO.	DATE	BY	SCALE
1	06-03-02	DWG	N/A
2	05-23-07	CJW	EQN-9B
3			

DATE	02-03-98	CHK'D BY	WHM	SHEET	1 OF 1
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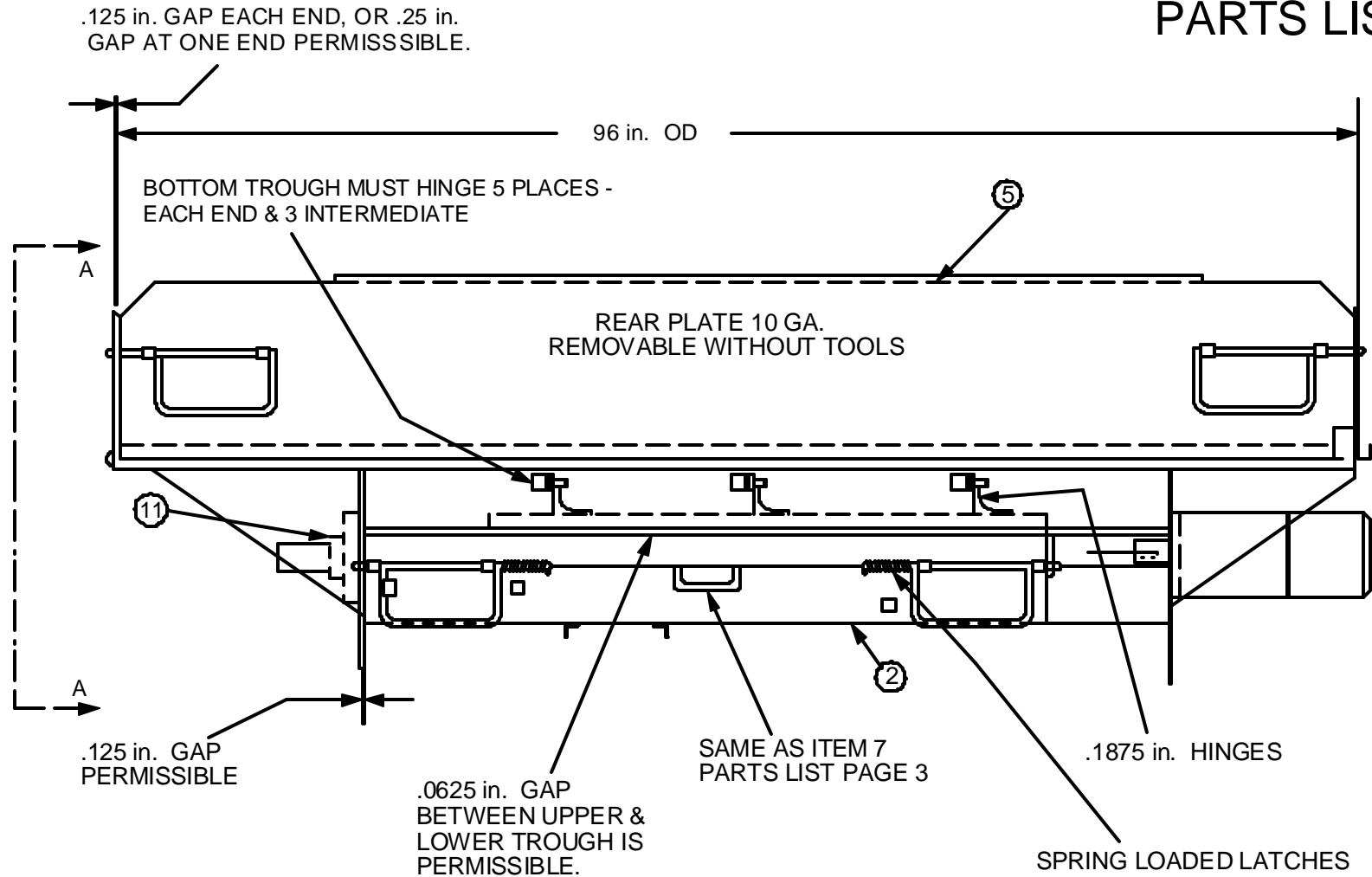
# PARTS LIST A



REVISIONS			COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION			
NO.	DATE	BY	STAINLESS STEEL SPREADER WITH QUICK DISCONNECT SPINNER		MATERIAL	
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						

DRW NO. EQN-9  
SHEET 1 OF 5

# PARTS LIST A

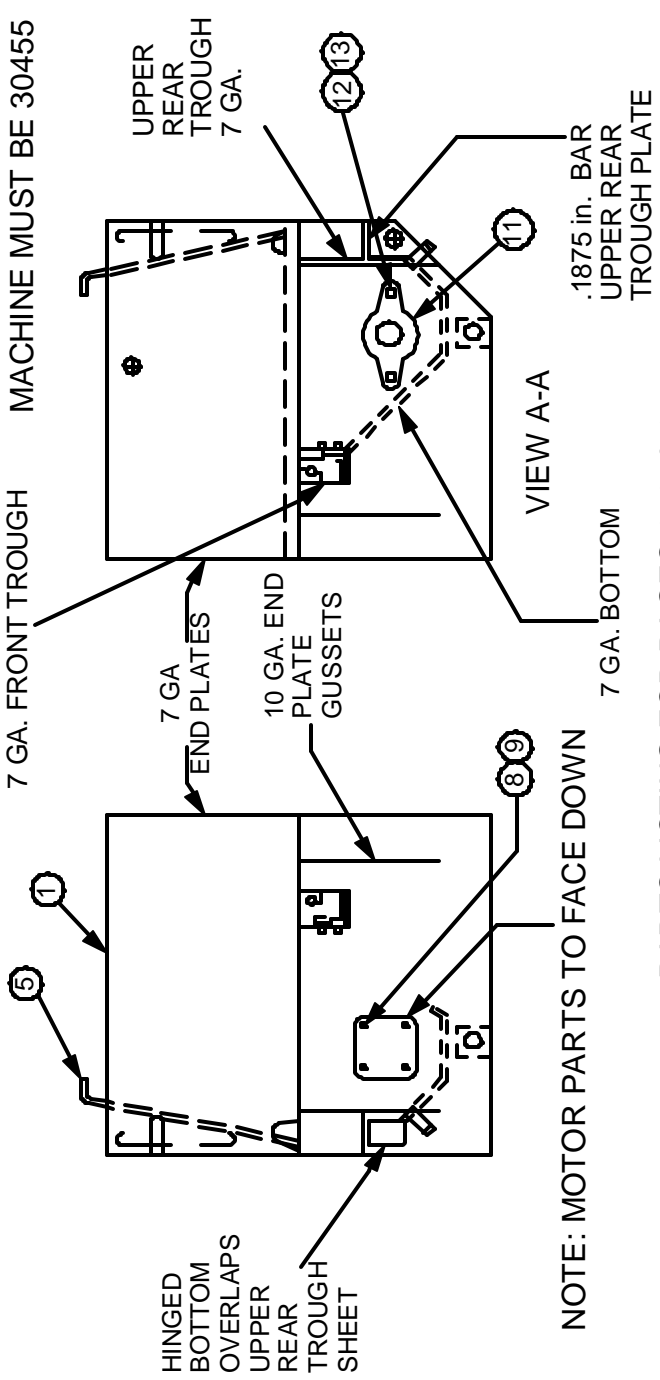


**NOTE:**

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		MATERIAL	
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						
					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

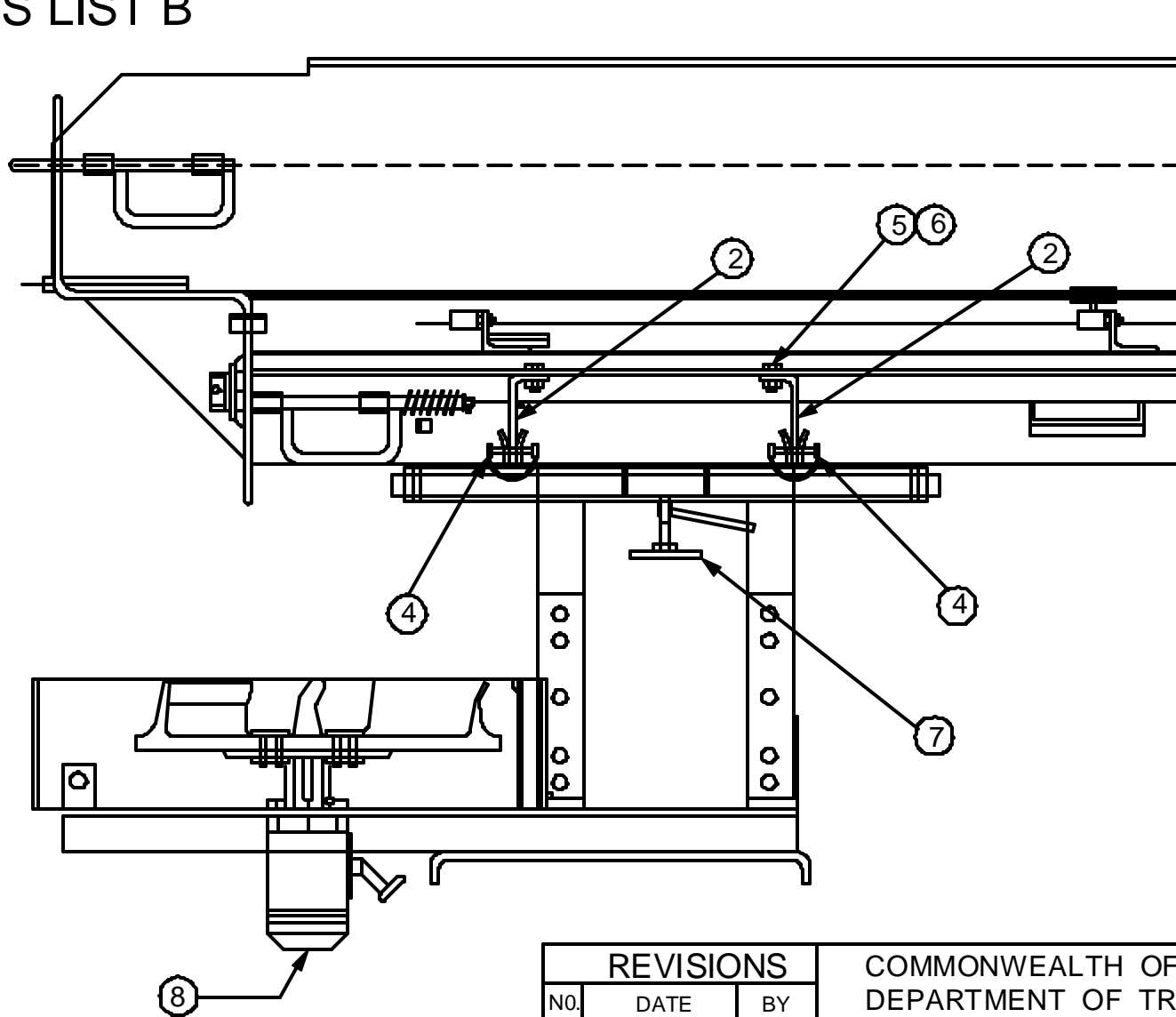
NO.	DATE	BY	DRAWN BY	SCALE	MATERIAL
1	01/10/96	SWW	DLW	N/A	
2	02/03/98	DLW	WHM	DATE 02/03/98	
3	06/03/02	DWG	WHM	DATE 02/03/98	
4					
5					

COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF TRANSPORTATION

STAINLESS STEEL SPREADER WITH  
QUICK DISCONNECT SPINNER

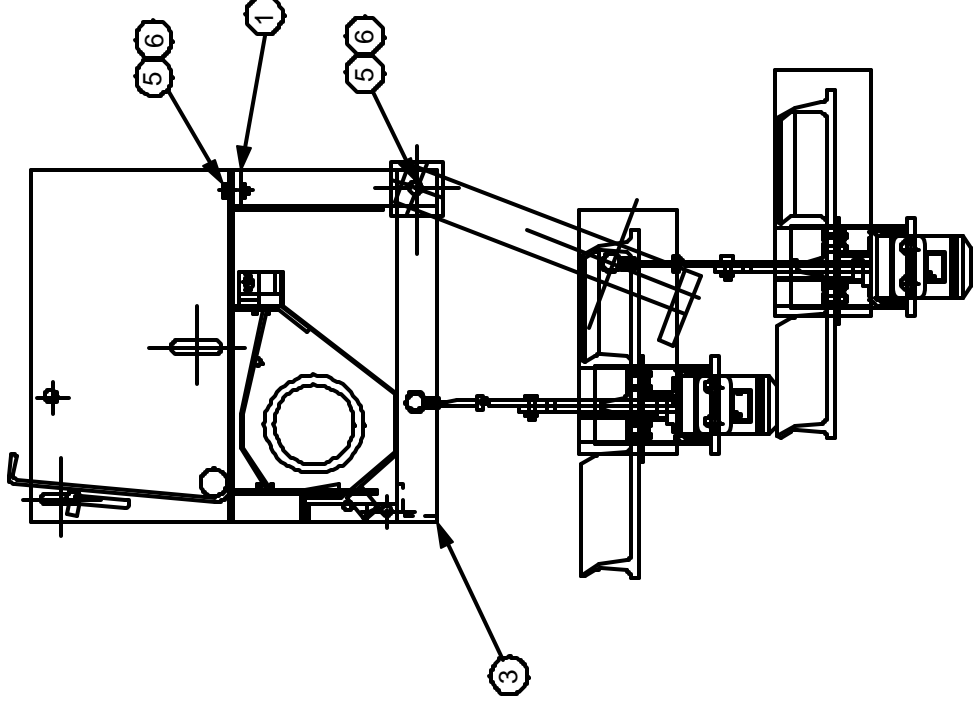
DRW NO. EQN-9  
SHEET 3 OF 5

# 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. EQN-9
5					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

NO.	DATE	BY
1	01/10/96	SWW
2	02/03/98	DLW
3	06/03/02	DWG
4		CHKD
5		

COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF TRANSPORTATION

STAINLESS STEEL SPREADER WITH  
QUICK DISCONNECT SPINNER

DRAWN BY	DLW	SCALE	N/A	MATERIAL
CHKD	WHM	DATE	02/03/98	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:

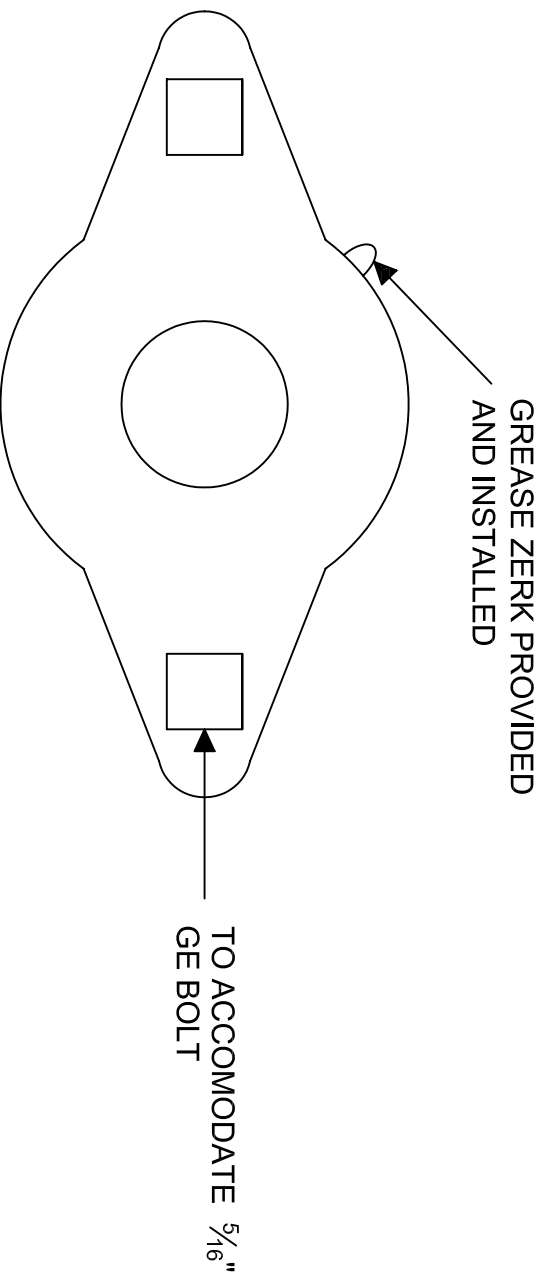
2 BOLT UNIT FLANGED UNIT TYPE. SEE DRAWING.

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.

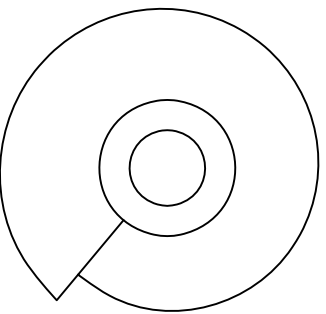
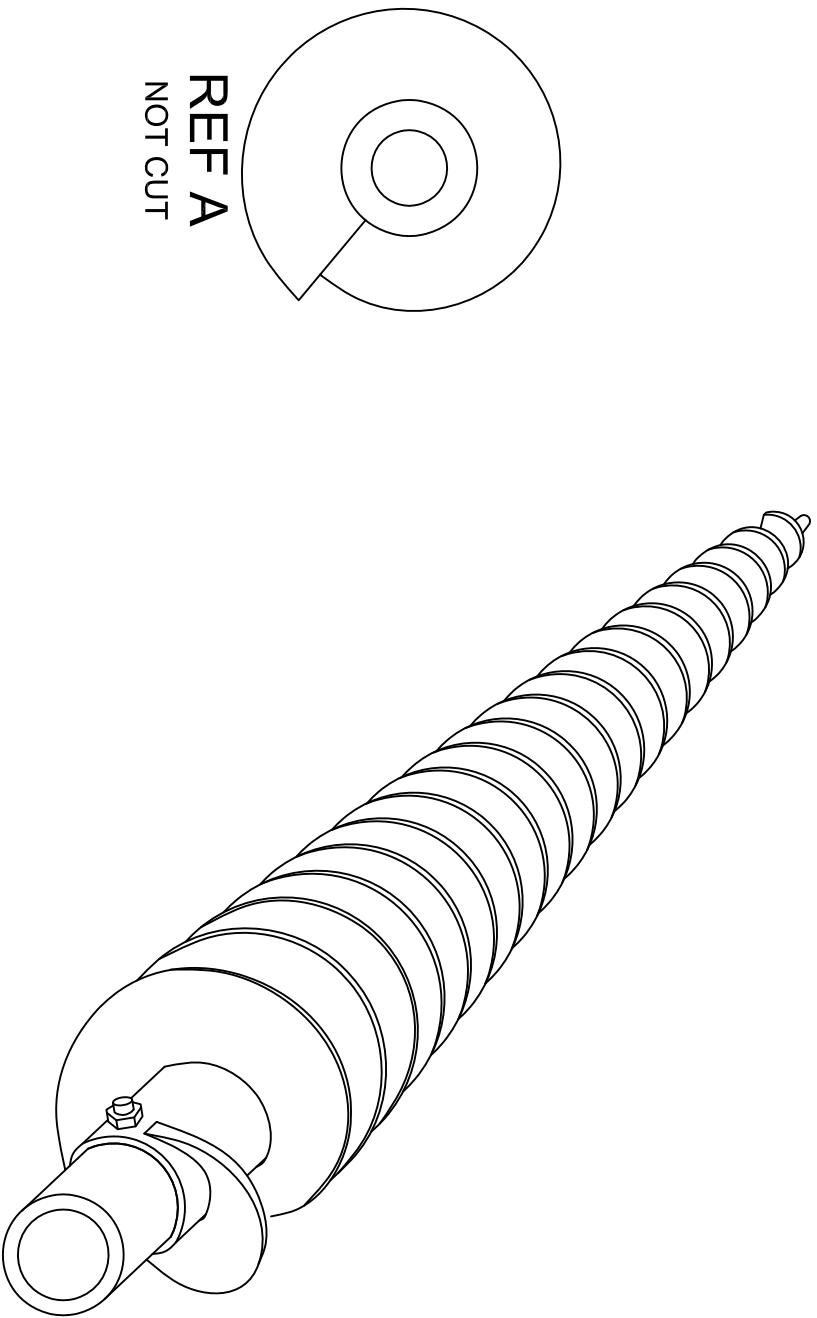
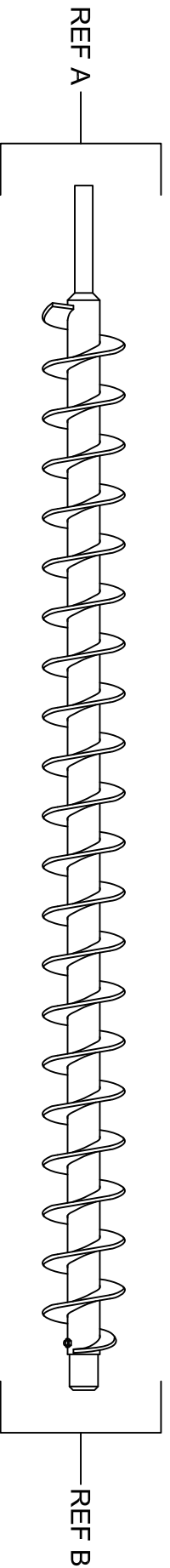
REVISIONS			SPREADER BEARING INFORMATION		
NO.	DATE	BY	SCALE	EQN-#	
1		KNH			
2					
3					

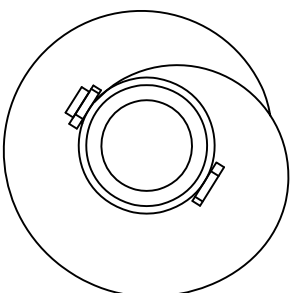
DRAWN BY	BAG	CHECKED BY	DMA	DATE	01-08-08	SHEET	2 OF 2
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PA DEPARTMENT OF TRANSPORTATION





**REF A**  
NOT CUT



**REF B**  
BEVEL CUT ON MOTOR  
SIDE OF AUGER

**PA DEPARTMENT OF TRANSPORTATION**

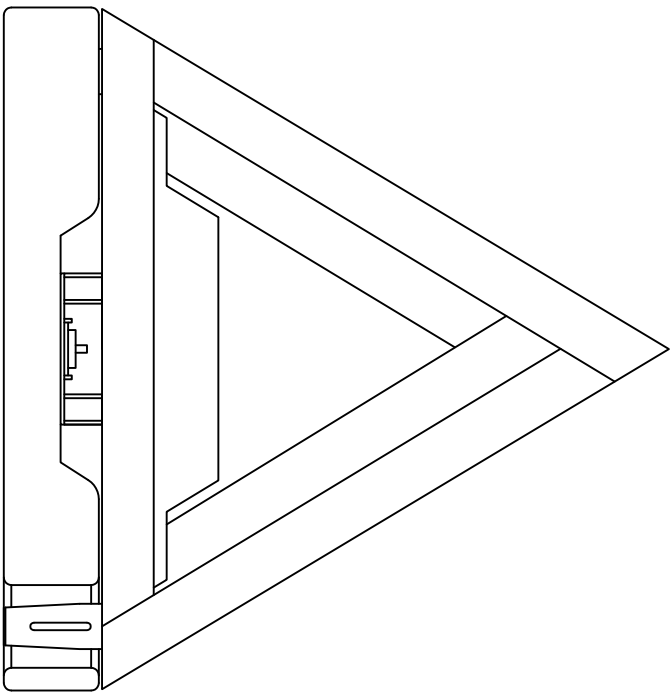
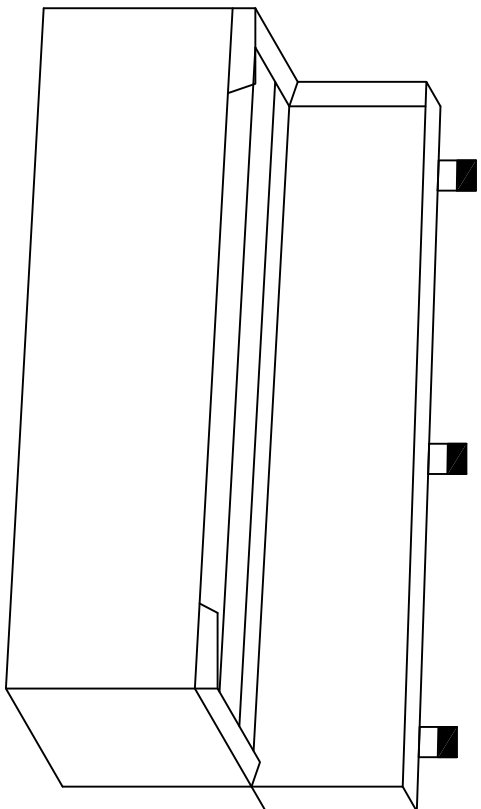
REVISIONS		
NO	DATE	BY
1		
2		
3		

**BEVEL CUT AUGER**

1				
2				
3				

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

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

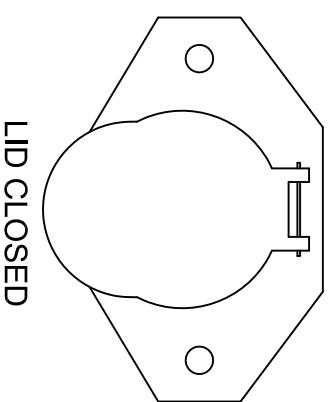
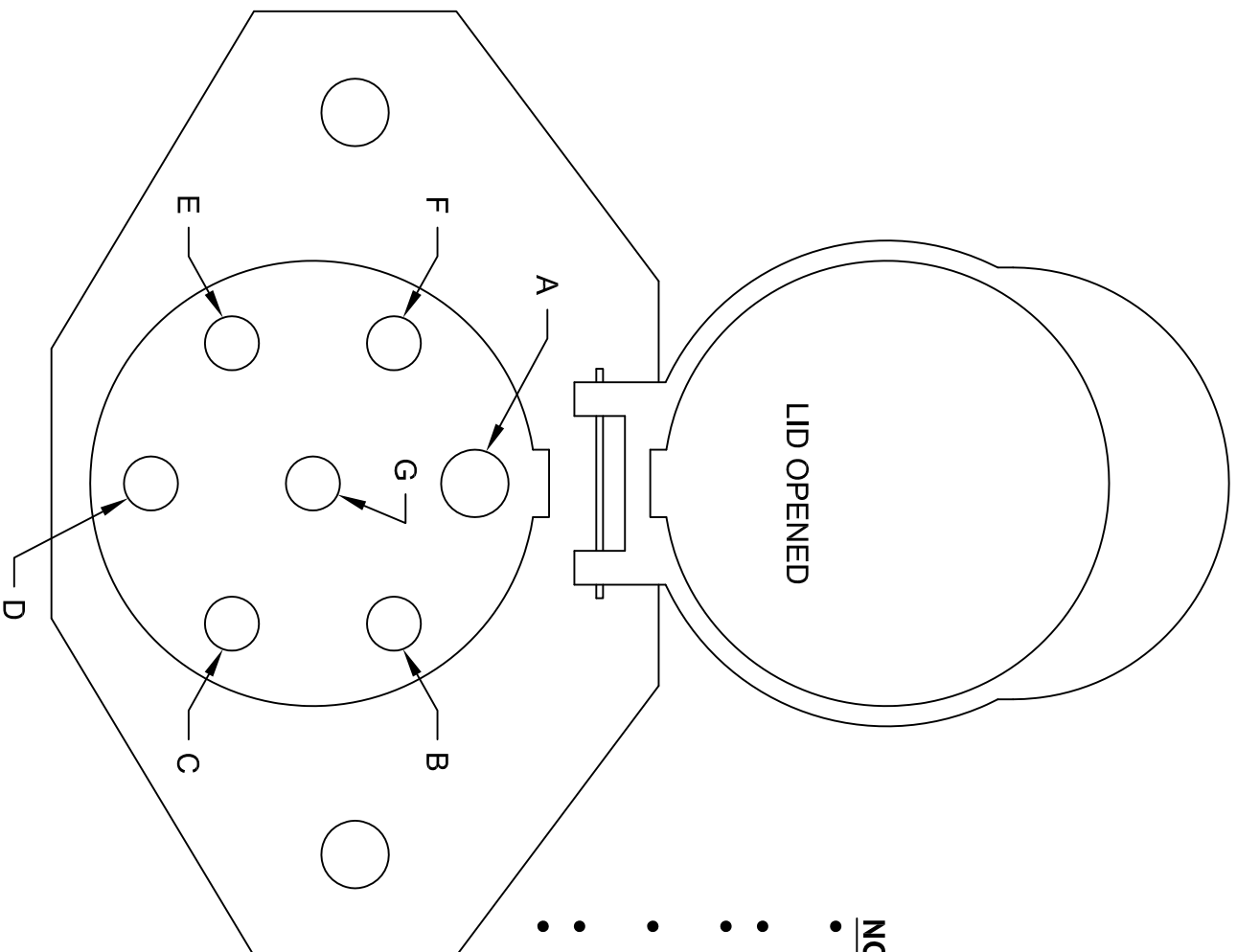


**PA DEPARTMENT OF TRANSPORTATION**

REVISIONS			DRAWN BY			SCALE		
NO.	DATE	BY	DATE	CHK'D BY				
1	05-31-07	KNH	04-23-92	RED	EQN-66A			
2	07-20-09	TOD						
3	07-13-17	HMR						

**TRIANGLE STORAGE BOX AND  
 BRACKET**

DATE 04-23-92  
 CHK'D BY RED  
 SHEET 1 OF 1



- 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:**

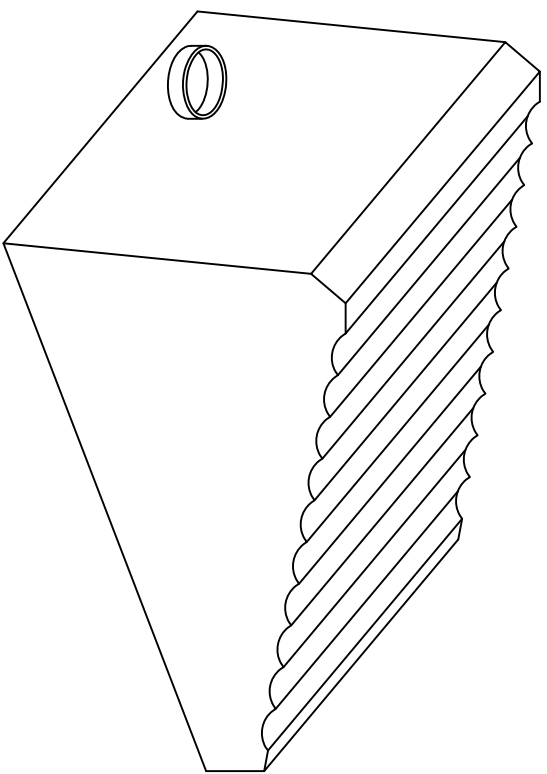
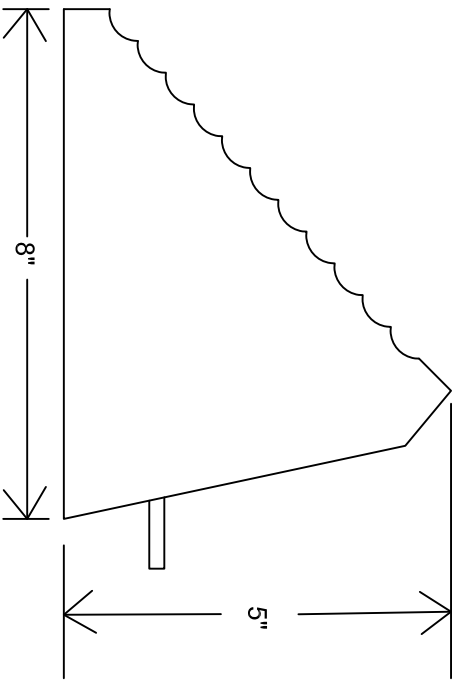
- A. WHITE: GROUND - 10
- B. BLACK: MARKER -12
- C. YELLOW: LEFT TURN & BRAKE - 12
- D. RED: STOP / BRAKE -12
- E. GREEN: RIGHT TURN & BRAKE - 12
- F. BROWN: TAIL - 12
- G. BLUE: ABS -12

**PA DEPARTMENT OF TRANSPORTATION**

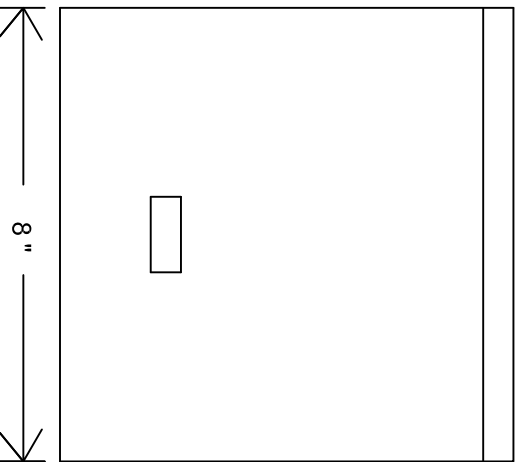
REVISIONS		DRAWN BY		SCALE	
NO.	DATE	BY			
1			JJB	N/A	EQN-80A
2					
3					

WIRING DIAGRAM / 7 WAY ROUND  
PIN FEMALE CONNECTOR

DATE: 08-02-16      SHEET 1 OF 1

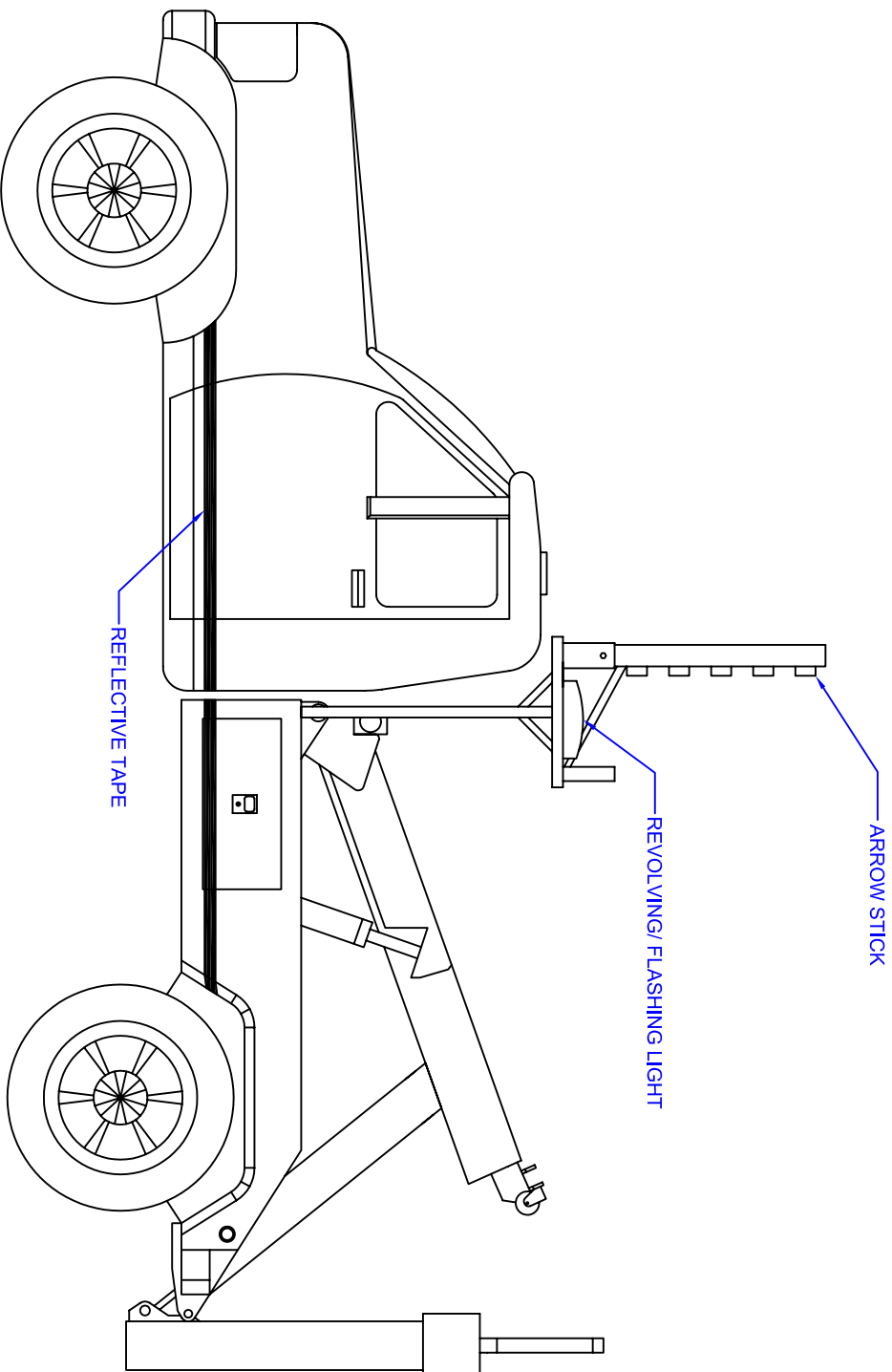


FINAL MOUNTING LOCATION SHALL BE DETERMINED AT THE PRE-BUILD MEETING. CHOCK HOLDERS SHALL BE ALUMINUM. TWO CHOCKS PER TRUCK SHALL BE SUPPLIED. CHOCKS SHALL HAVE 4 FEET OF  $\frac{3}{8}$  INCH NYLON ROPE CONNECTING THE TWO CHOCKS TOGETHER.



**PA DEPARTMENT OF TRANSPORTATION**

REVISIONS			5" X 8" X 8" CHOCK AND HOLDER		
NO.	DATE	BY	DRAWN BY	SCALE	
1			JJB	N/A	EQN-82B
2					
3					



**PA DEPARTMENT OF TRANSPORTATION**

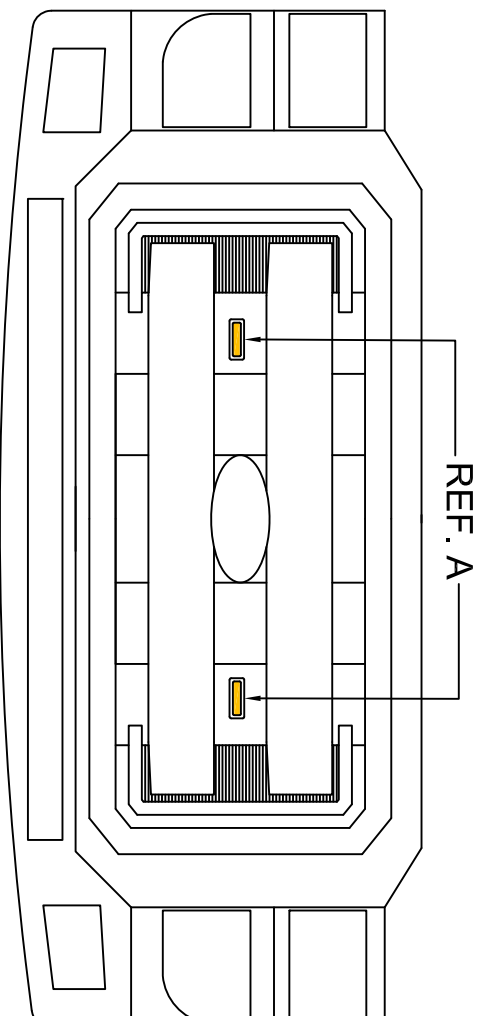
**TOWTRUCK 17,500 LBS**

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

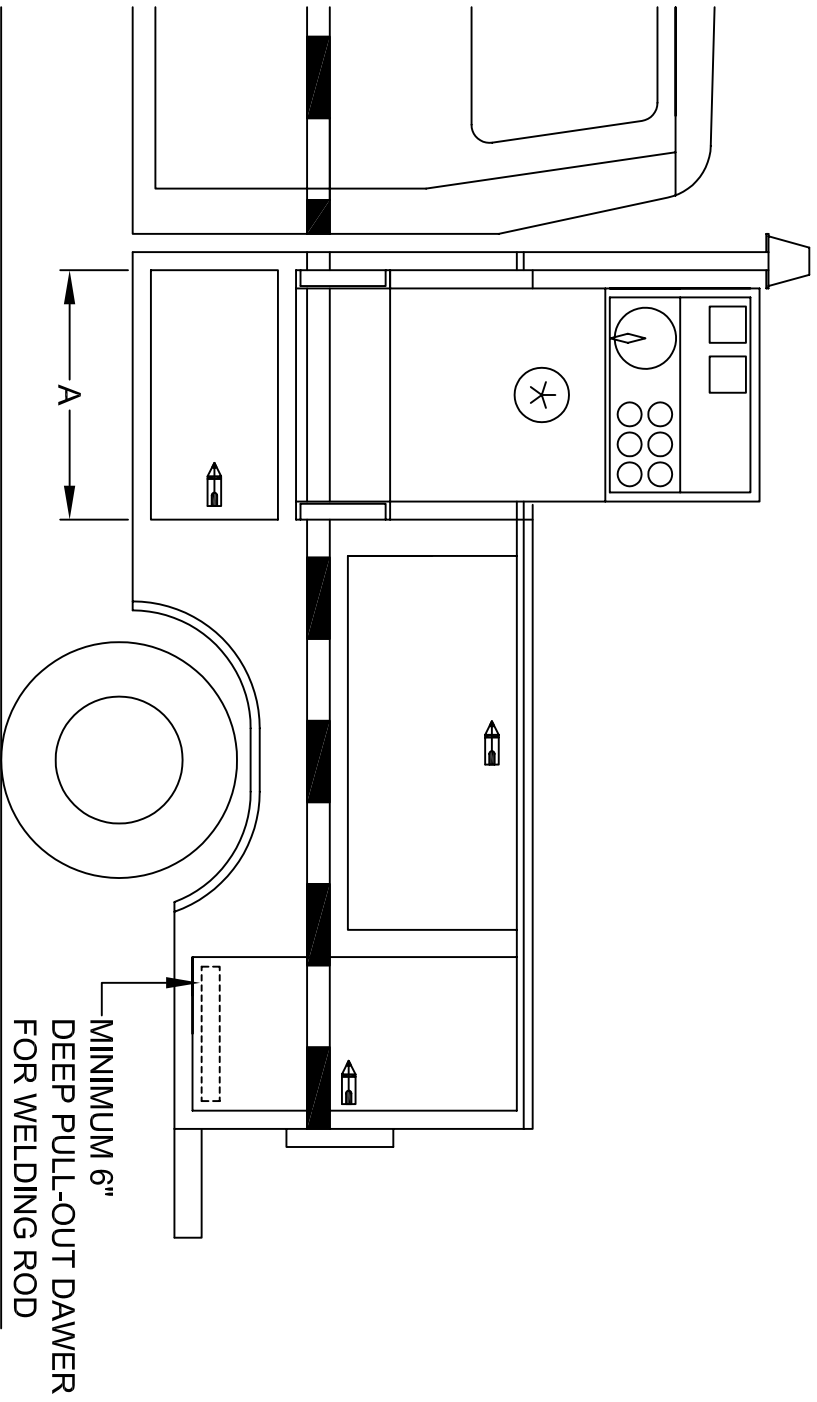
DATE	DRAWN BY	SCALE	EQN-104
08-25-98	DJA	N/A	
	CHK'D BY	WHM	SHEET 1 OF 3

# CREW CAB FRONT VIEW



A. MODEL # TLIA. LIGHTS SHALL BE SURFACE MOUNTED ON GRILL. LIGHTS MOUNTED BEHIND GRILL ARE UNACCEPTABLE.

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



⊗ WELDER NOT INCLUDED IN SPEC.

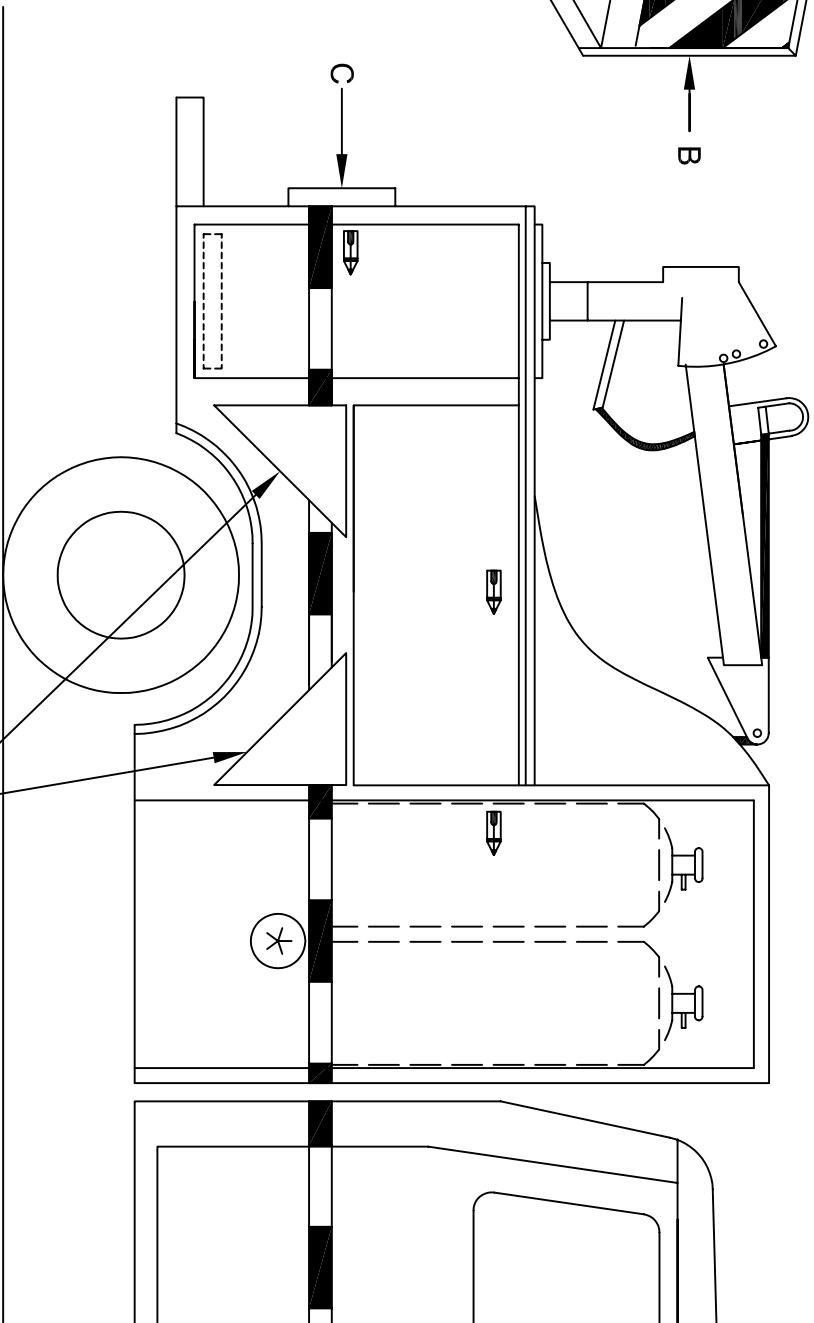
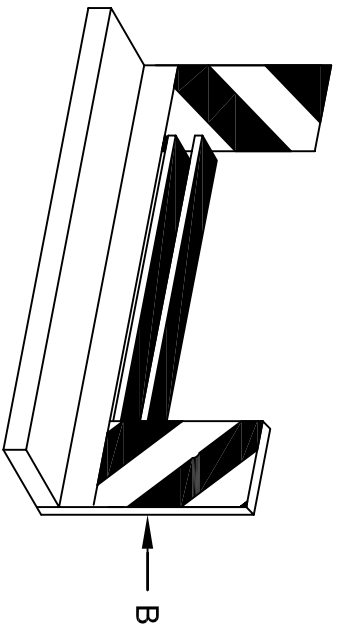
- A) AREA SHALL BE OF SUFFICIENT SIZE AND MOUNTING TO ACCOMMODATE
- A MILLER BIG BLUE 50D OR A
- HOBART MEGA-ARC-4030D

**PA DEPARTMENT OF TRANSPORTATION**

**WELD BODY STEEL**

**REVISIONS**

NO.	DATE	BY	SCALE	DRAWN BY	DATE	CHECKED BY	SHEET
1	05-09-03	PJC	N/A	DLW	03-02-98	WHM	EQN-120F
2	03-07-07	CJW	N/A	DLW	03-02-98	WHM	EQN-120F
3	09-28-11	TOD	N/A	DLW	03-02-98	WHM	EQN-120F



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	

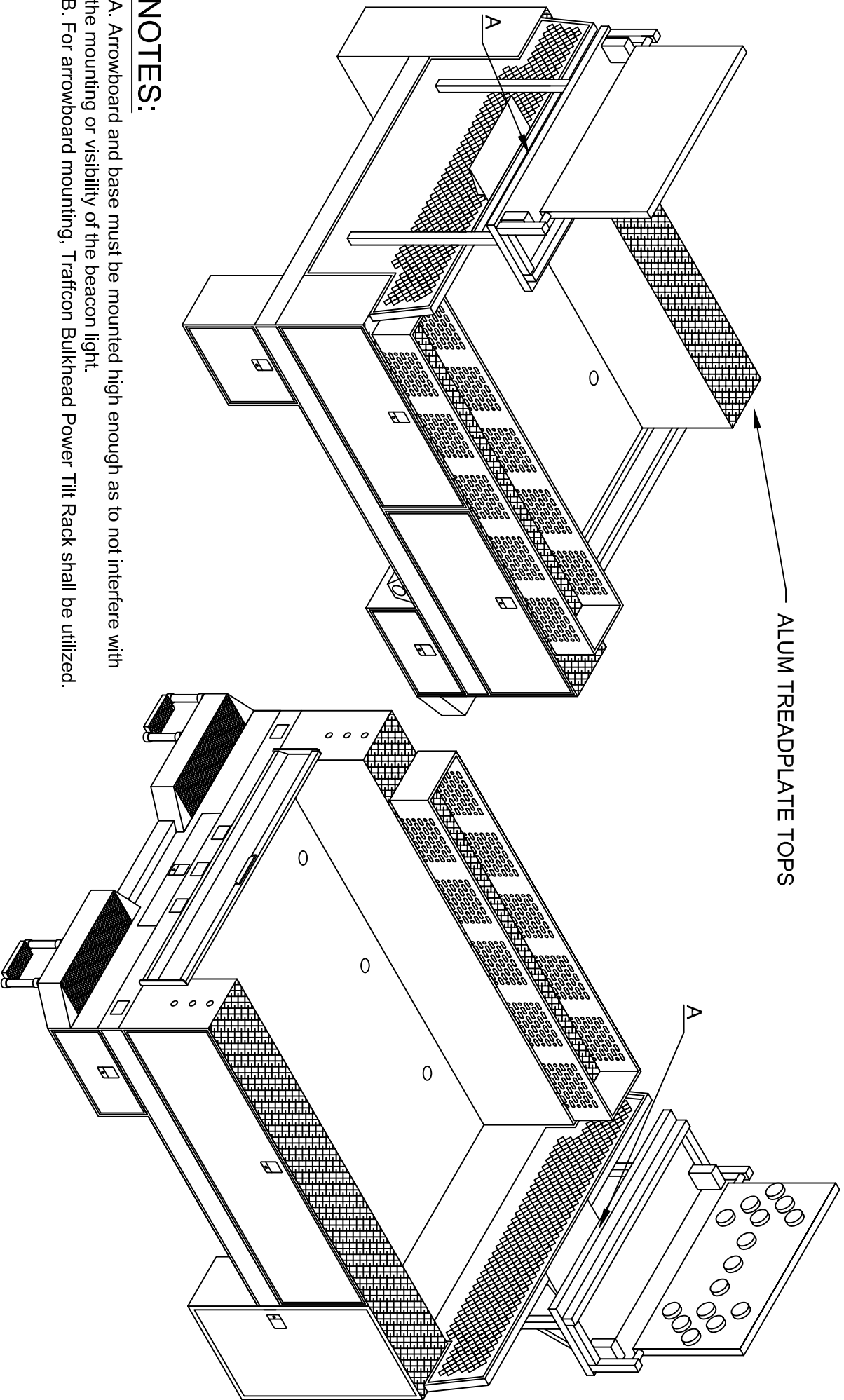
NO.	DATE	BY	WELD BODY STEEL
1	05-09-03	PJC	
2	03-07-07	CJW	
3	09-28-11	TOD	

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.

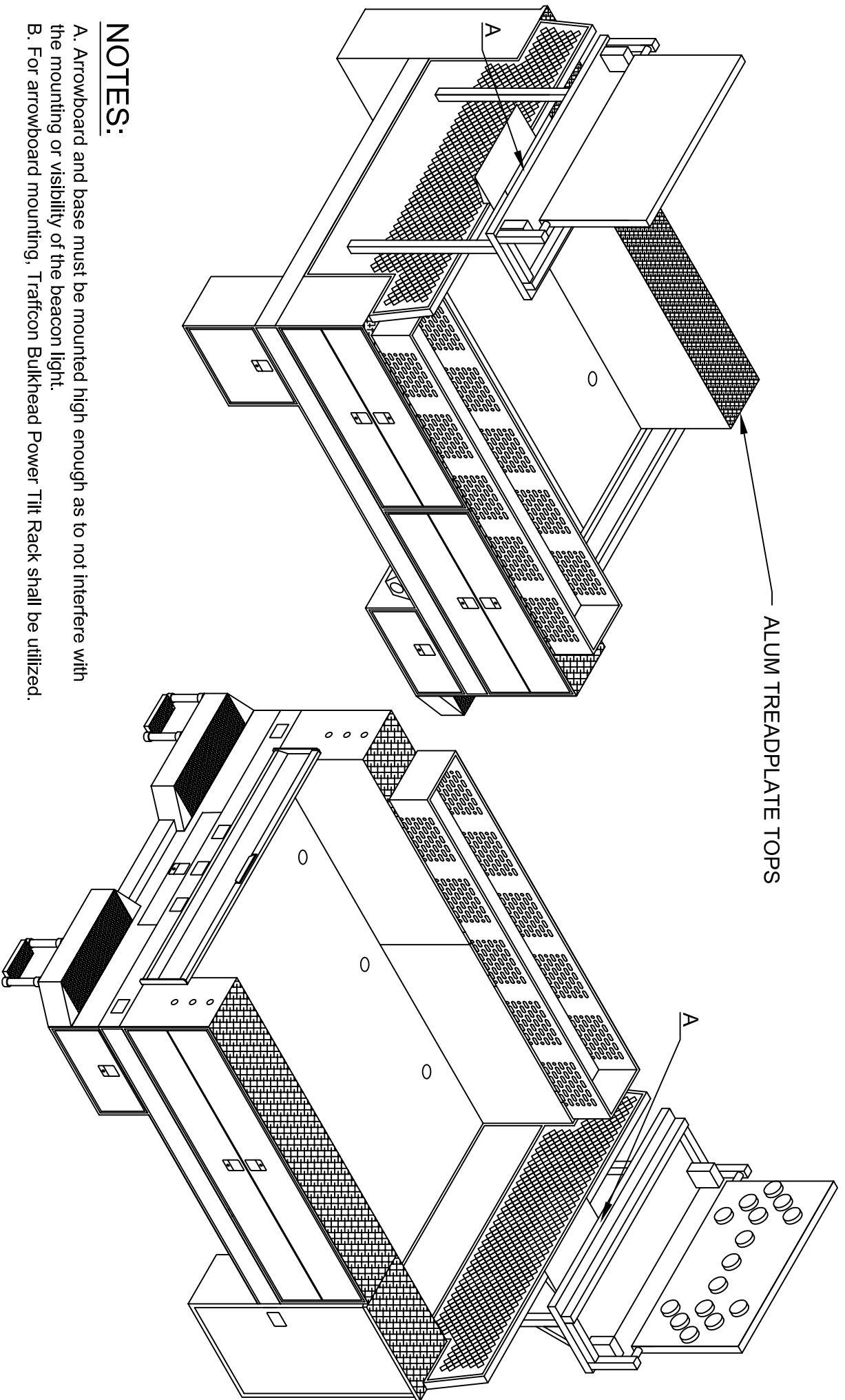
**PA DEPARTMENT OF TRANSPORTATION**

**FOREMAN BODY**

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

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**

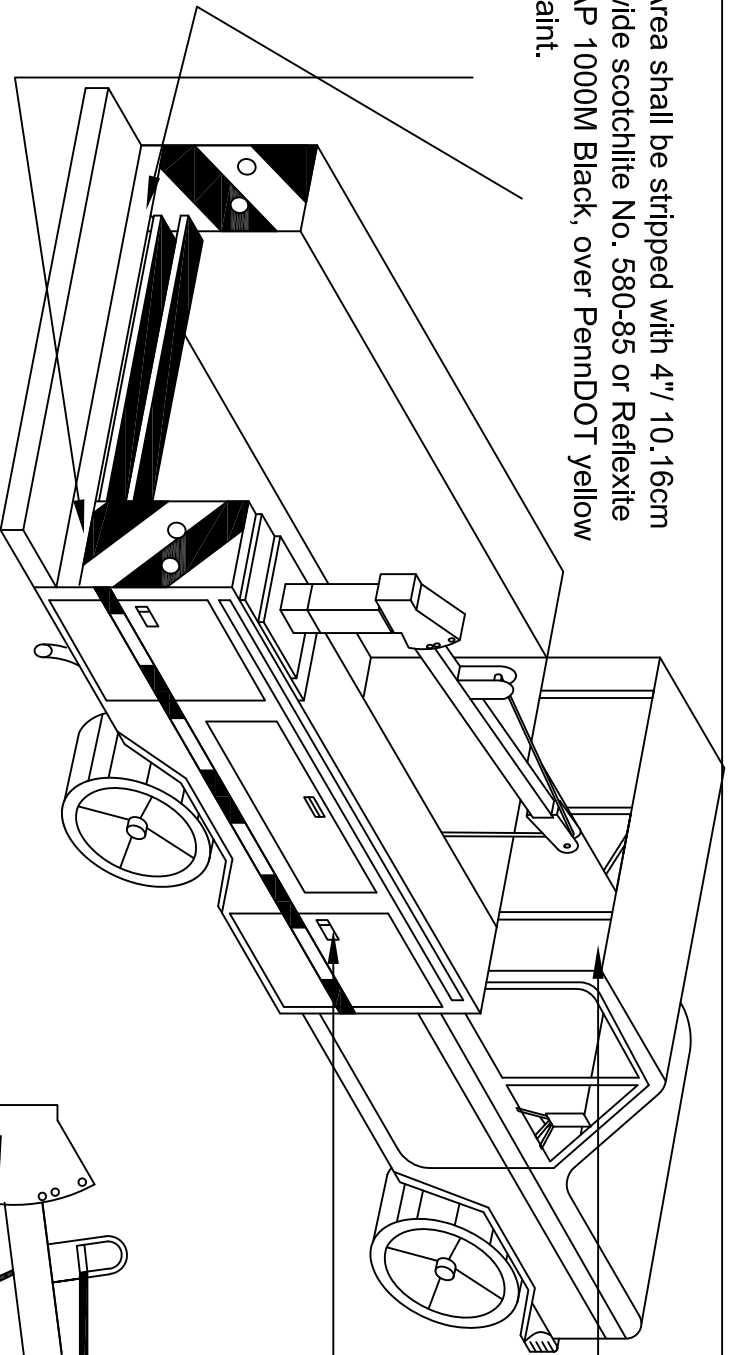
**REVISIONS**

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			

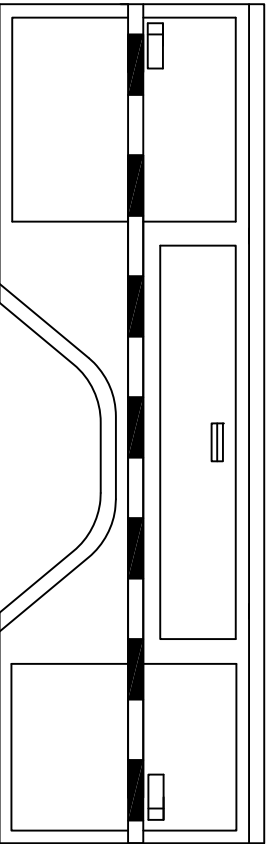
Area shall be stripped with 4" / 10.16cm wide scotchlite No. 580-85 or Reflexite AP 1000M Black, over PennDOT yellow paint.



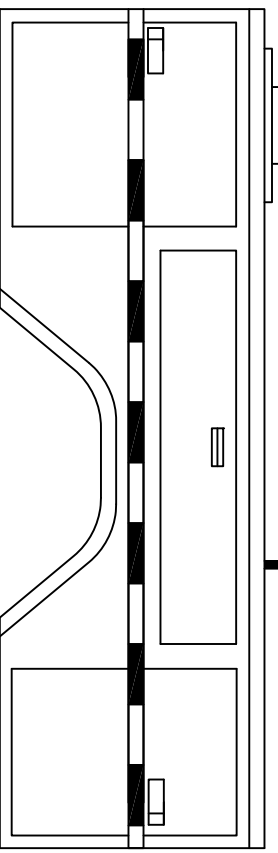
Regular etc.,  
Curbside mounted

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**

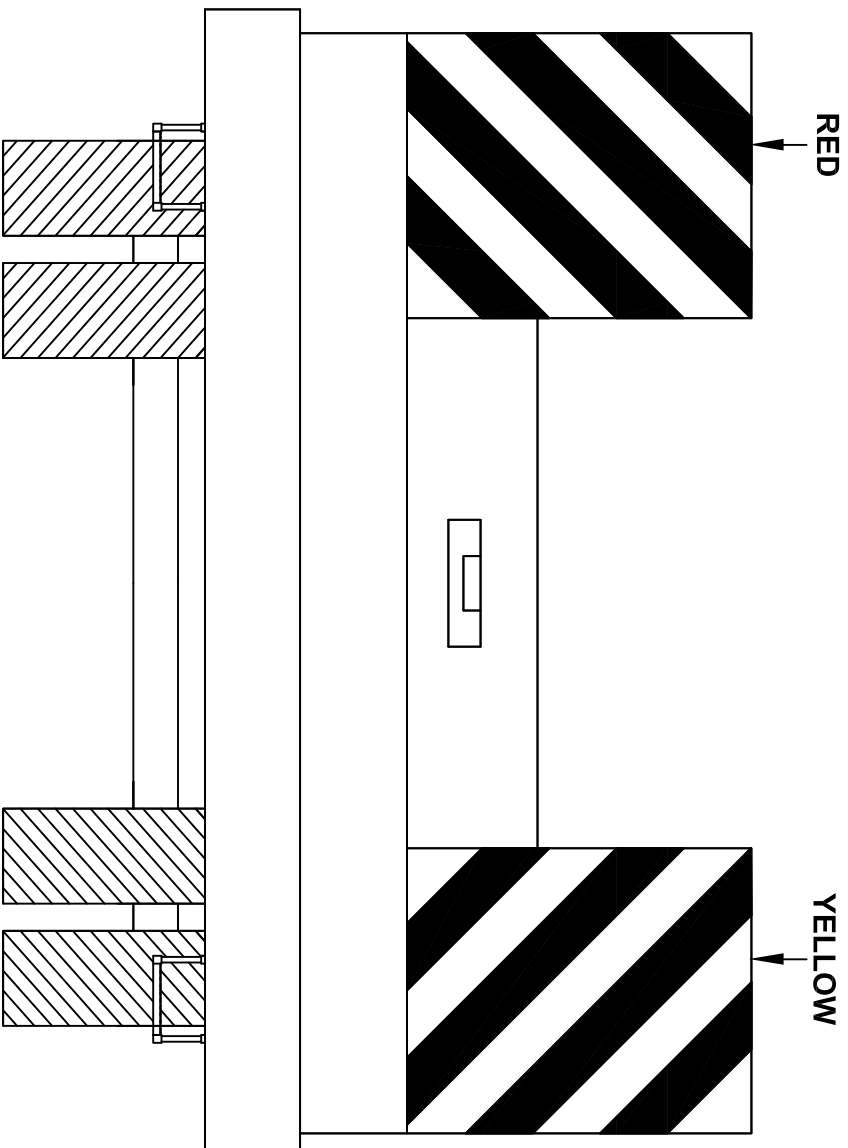
**REVISIONS**

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)**

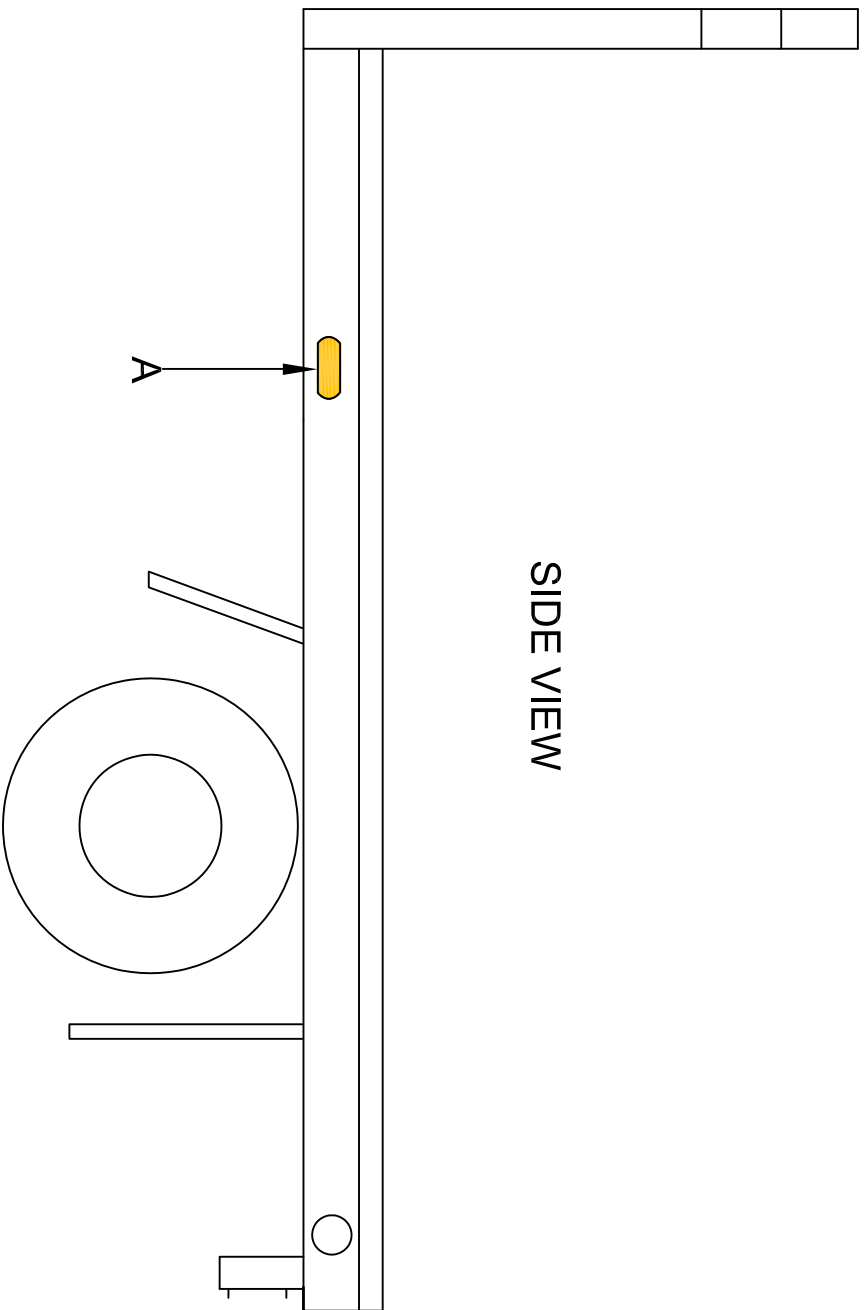


NOTE: REFLECTIVE SHEETING TO BE 4 INCHES IN WIDTH AND ALTERNATE RED / YELLOW BANDS SPACED EVENLY ON REAR OF BODY. TAPE SHALL BE REFLEXITE DAYBRIGHT V92 CONSPICUITY SHEETING. RED - SRH14R, YELLOW - SRH14Y. INSTALLED.

**PA DEPARTMENT OF TRANSPORTATION**

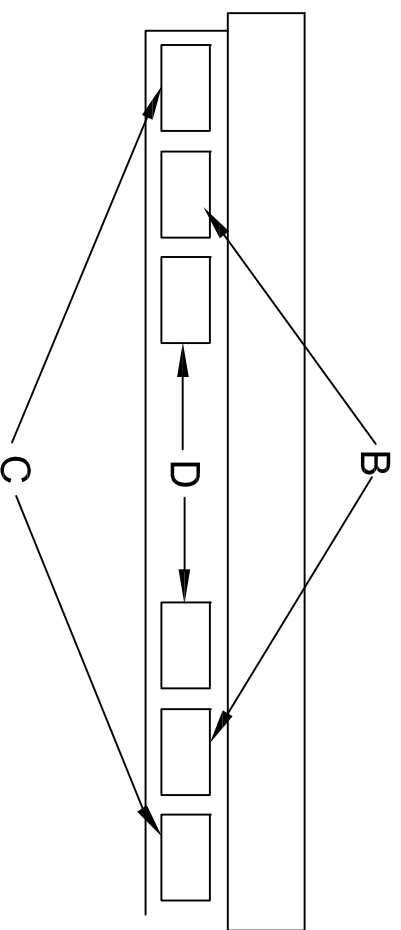
REVISIONS		TYPICAL REFLECTIVE SHEETING	
NO.	DATE	BY	
1	09-28-11	TOD	
2	06-10-14	ACT	
3			

DRAWN BY	MHH	SCALE	N/A	EQN-120K
DATE	07-28-08	CHK'D BY	TOD	SHEET 1 OF 1



SIDE VIEW

REAR VIEW

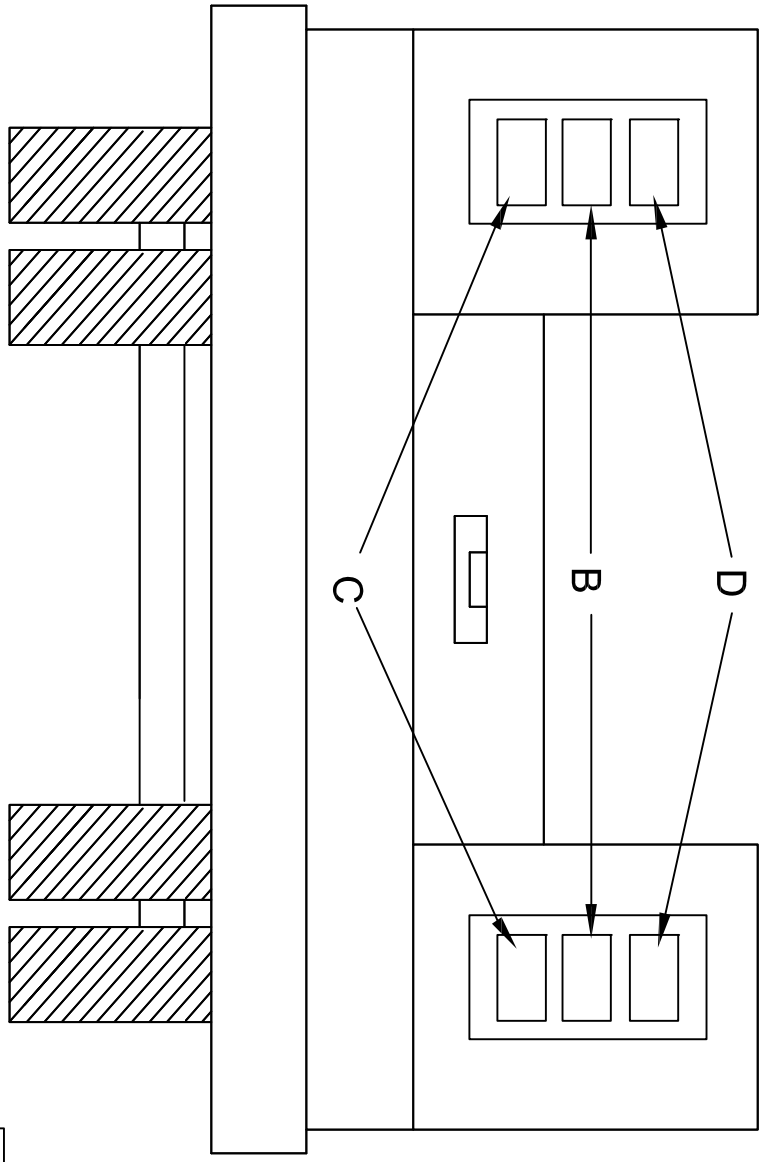


The purpose of this drawing is to show locations for Flat bed Body Lighting, Whelen part # PADOTS9.

- A. TLIA Amber Warning Light, surface mounted, one each side.
- B. M6BUD Back up Lights with Brush Guards.
- C. M5BTDD Stop / Tail / Turn Lights with Brush Guards.
- D. M6AD Amber Warning Lights with Brush Guards.

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

# REAR VIEW

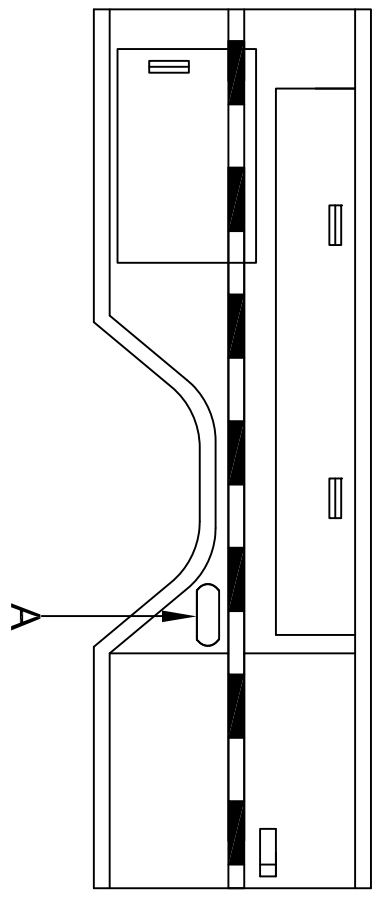


The purpose of this drawing is to show locations for Crew Cab Body Lighting, Whelen part # PADOTSYS5.

- A. TLIA Amber Warning Light, surface 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.**

# Curb Side



## PA DEPARTMENT OF TRANSPORTATION

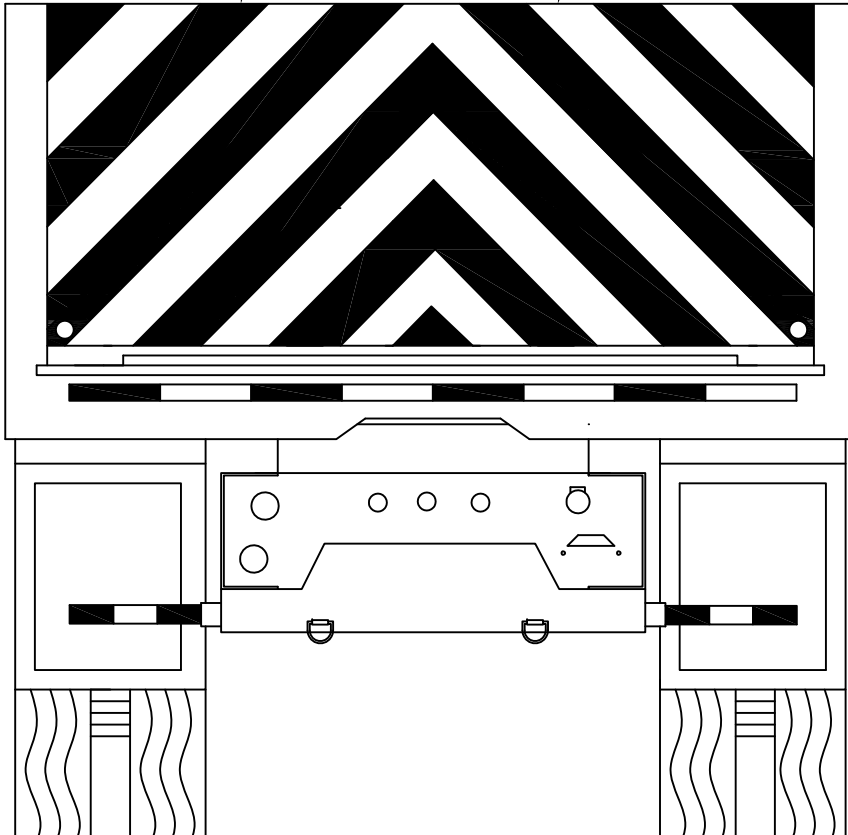
### Crew Cab Body Lighting

REVISIONS		Crew Cab Body Lighting			
NO.	DATE	BY	DATE	SCALE	EQN-120M
1			TOD	N/A	
2			09/28/11	DMA	SHEET 1 OF 1

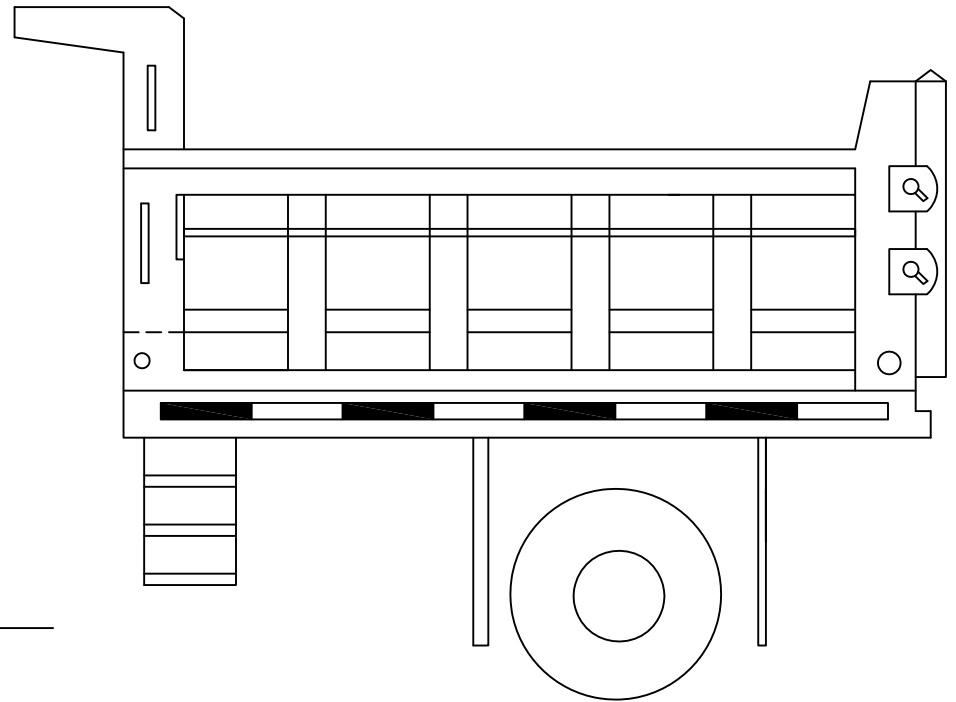
RED

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 - SRH14R, YELLOW - SRH14Y.

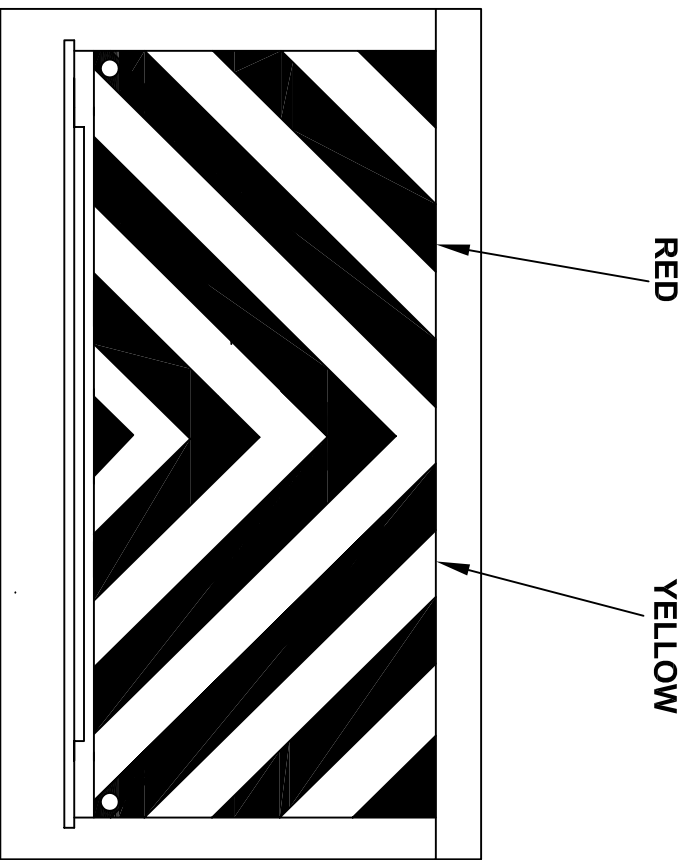


THIS DRAWING SHALL BE FOR TAILGATE CONSPICUITY REFERENCE AND WARNING LIGHTS ONLY, NOT TAILGATE CONSTRUCTION.

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.**

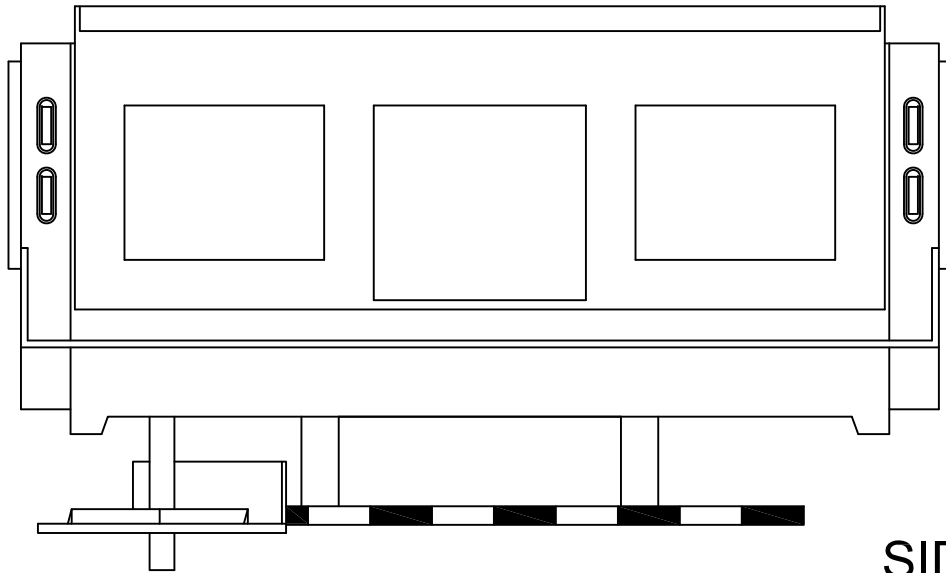
**THIS VEHICLE SHALL COMPLY WITH THE RULES OF THE NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION (NHTSA). THE MOST CURRENT REGULATIONS SHALL BE ADHERED TO.**

REVISIONS			CARGO BOX REAR DOOR REFLECTIVE SHEETING		
NO.	DATE	BY	DRAWN BY	SCALE	EQN-120P
1			TOD	N/A	EQN-120P
2					
3			DATE 11-03-11	CHK'G BY DMA	SHEET 1 OF 1

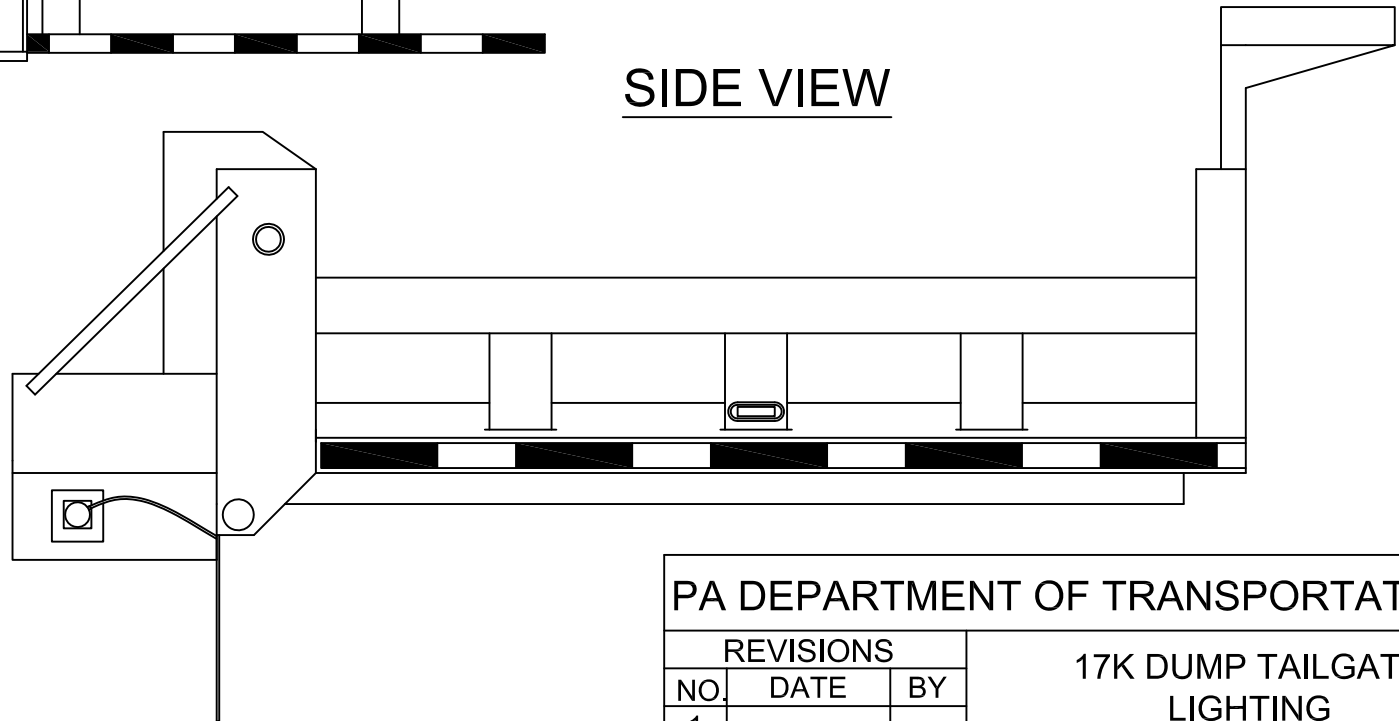
**PA DEPARTMENT OF TRANSPORTATION**



BACK VIEW



SIDE VIEW

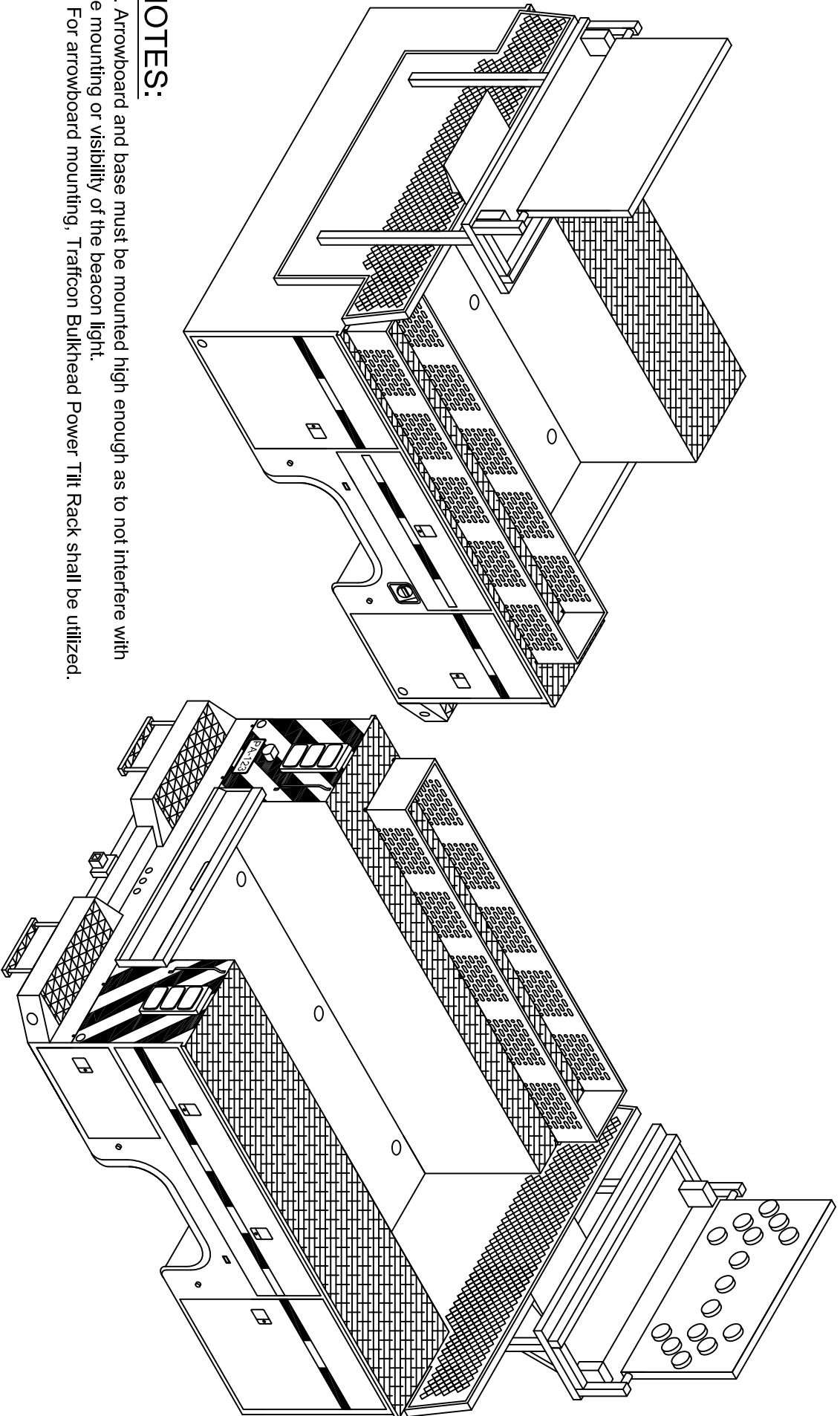


PA DEPARTMENT OF TRANSPORTATION

REVISIONS		
NO.	DATE	BY
1		
2		
3		

17K DUMP TAILGATE  
LIGHTING

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

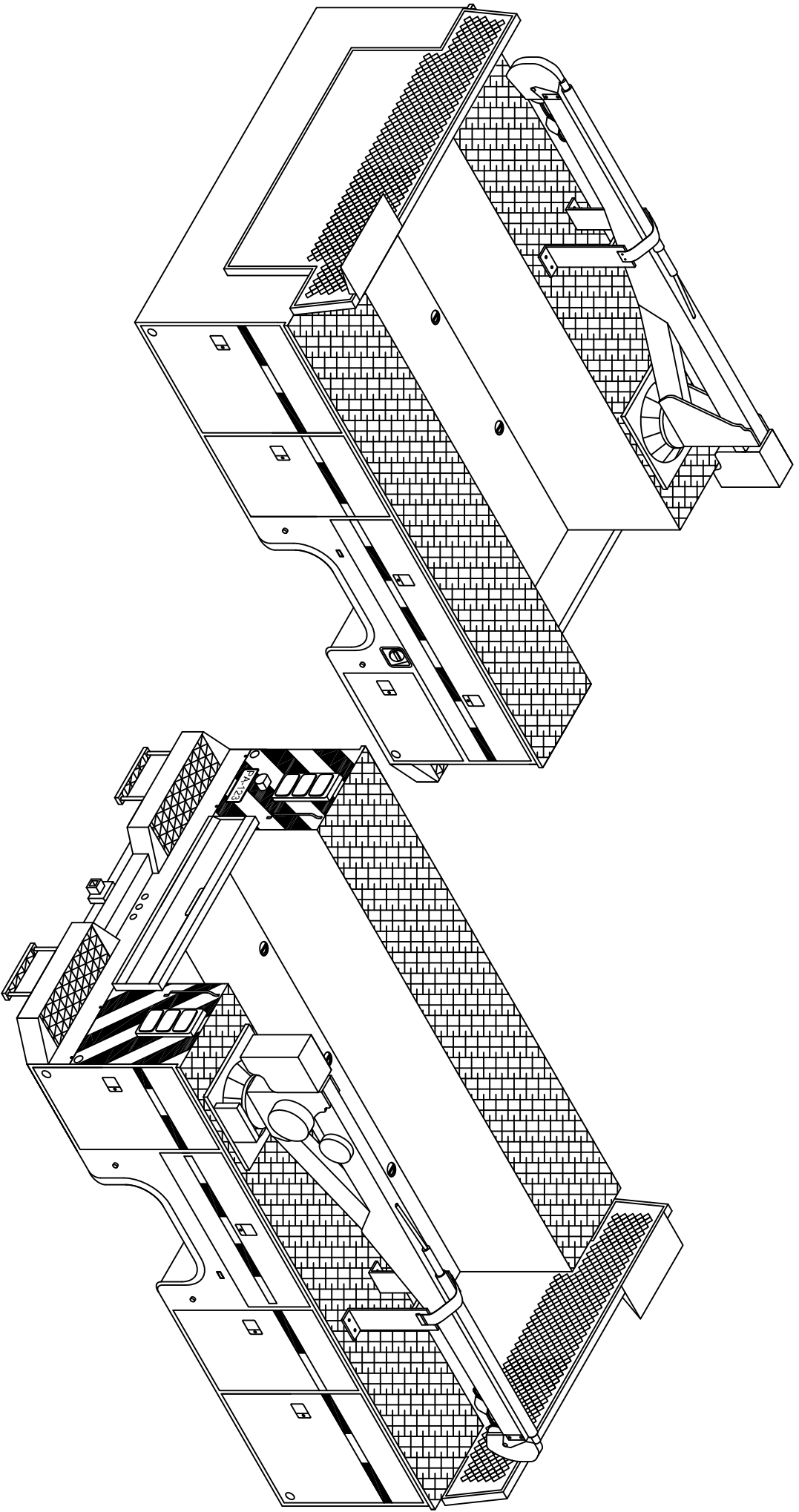


**NOTES:**

- 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.

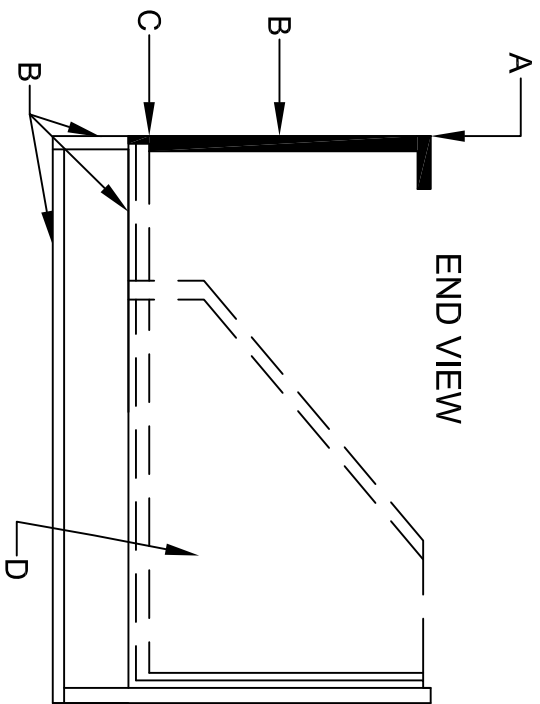
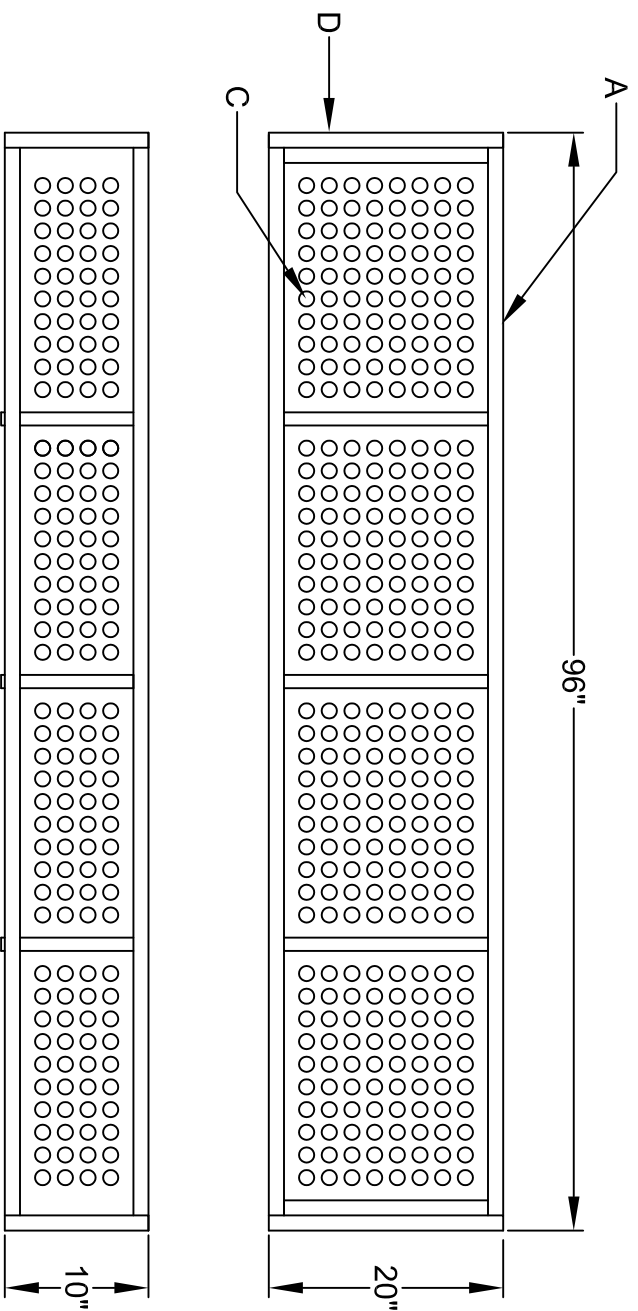
REFLECTIVE MATERIAL SHALL BE APPLIED TO THE HORIZONTAL BAR OF THE REAR UNDERIDE DEVICE IN ADDITION TO THE FLOOR LEVEL HORIZONTAL STRIPE. THE UPPER CORNERS ARE TO BE MARKED BY TWO 90 DEGREE ANGLE BRACKETS OF WHITE STRIPES 12in. BY TWO INCHES WIDE, INDICATING THE WIDTH AND HEIGHT OF THE TRAILER.

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	
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	MHH	11-07-97	DMA SHEET 1 OF 1



**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

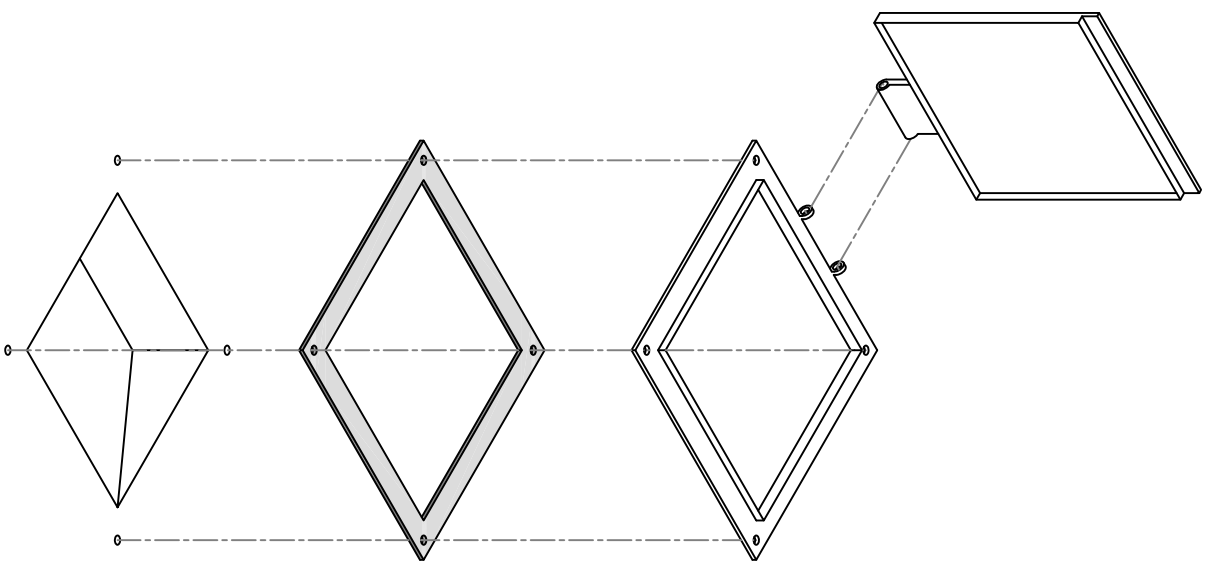
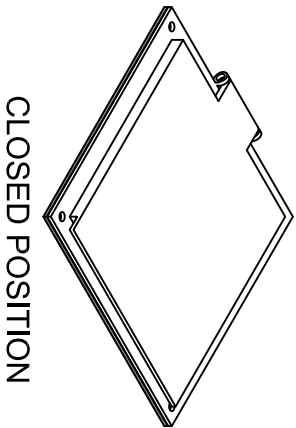
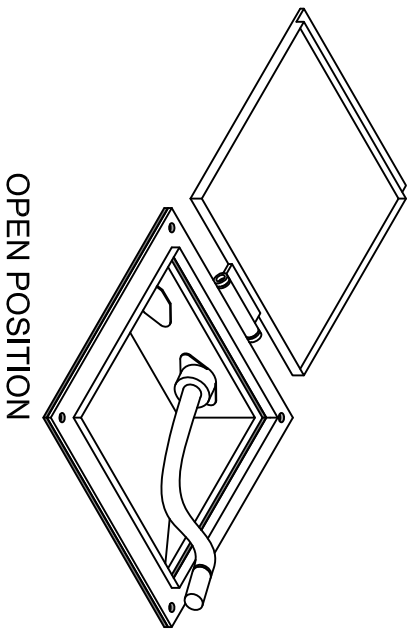
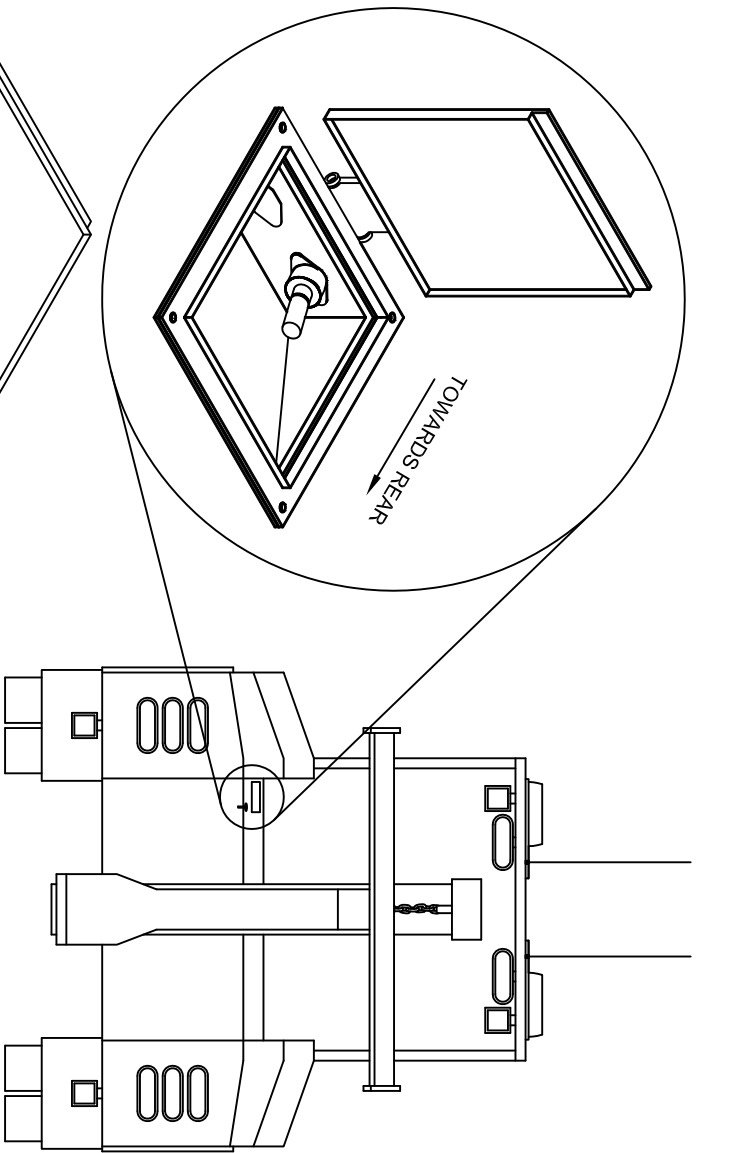
**NOTE:**  
EXPANDABLE  
METAL IS  
UNACCEPTABLE

**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		

DRAWN BY GAH  
SCALE N/A  
EQU-134

DATE 04-18-00  
CHECKED BY RED  
SHEET 1 OF 1



**NOTES:**

SHALL BE WEATHER PROOF.

SHALL BE DESIGNED TO COMPLETELY ENCLOSE AIR LINE AND ELECTRICAL PORT WHEN IN THE CLOSED POSITION.

SHALL BE DESIGNED TO HAVE NO CONTACT BETWEEN AIR LINE AND LID WHILE IN THE OPEN POSITION.

**PA DEPARTMENT OF TRANSPORTATION**

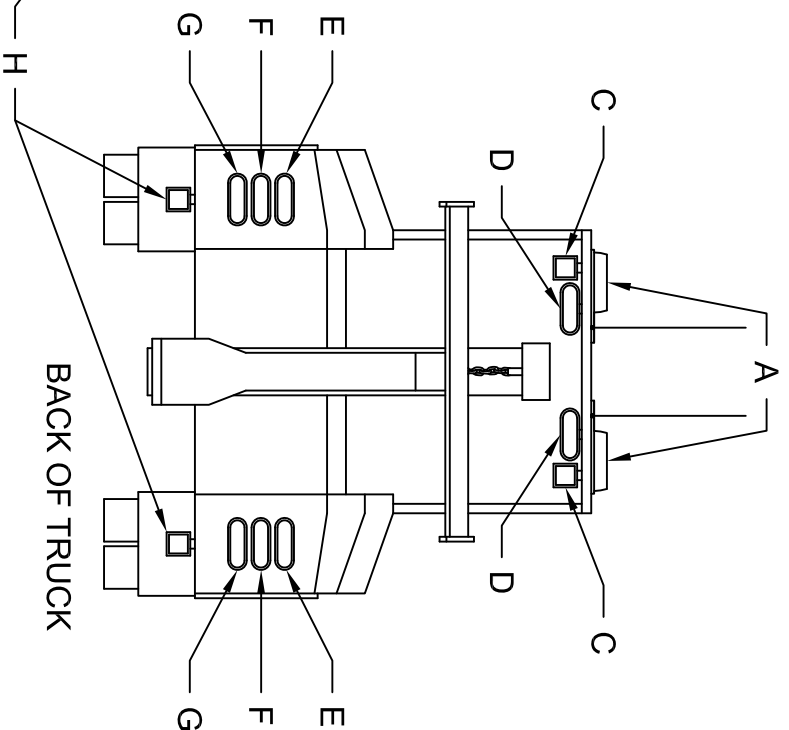
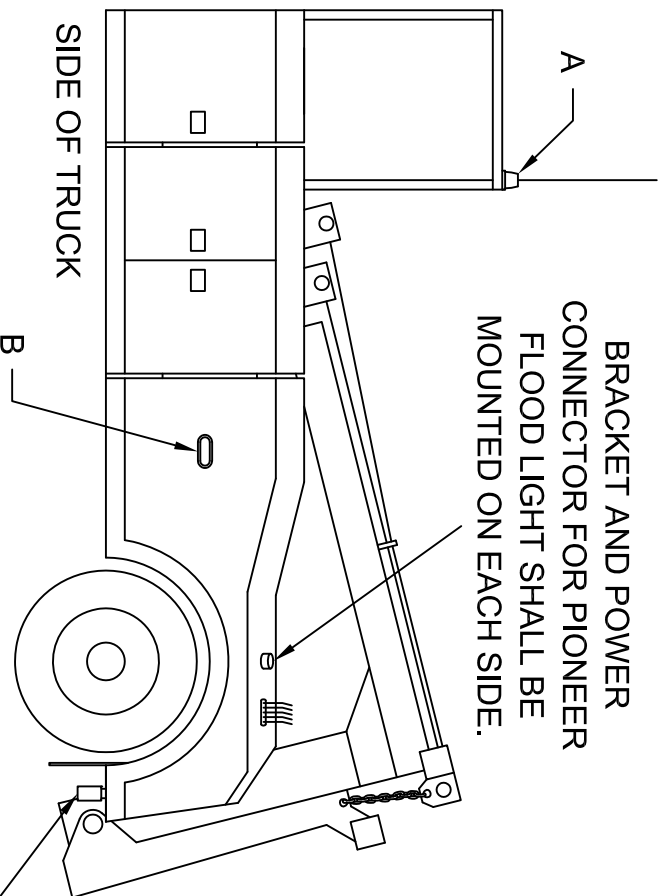
**WEATHER PROOF COVER**

REVISIONS			DRAWN BY			SCALE		
NO	DATE	BY	DATE	DATE	CHG'D BY	DATE	DATE	SHEET
1			JJB	N/A				1 OF 1
2								
3								

EQN-138

SHEET 1 OF 1

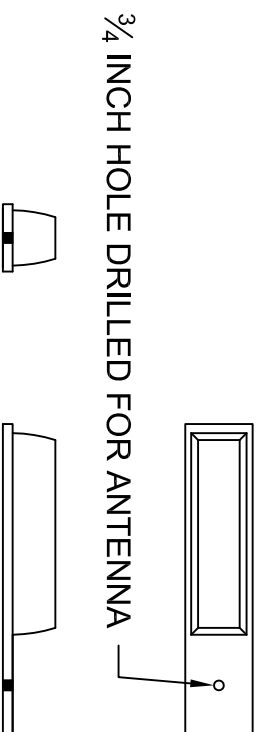
BRACKET AND POWER CONNECTOR FOR PIONEER FLOOD LIGHT SHALL BE MOUNTED ON EACH SIDE.



**LIGHTING NOTES:**

- A. TWO (2) R-10 LIGHT BARS MOUNTED TO THE ARROW BOARD BRACKET.
- B. TWO (2) TLIA WARNING LIGHTS SURFACE MOUNTED. ONE ON EACH SIDE.
- C. TWO (2) MICRO PIONEERS MOUNTED TO THE BOTTOM OF THE ARROW BOARD BRACKET.
- D. TWO (2) M6BTJD 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) M6BTJD 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

NO.	DATE	BY
1		
2		
3		

WRECKER WITH ARROW BOARD

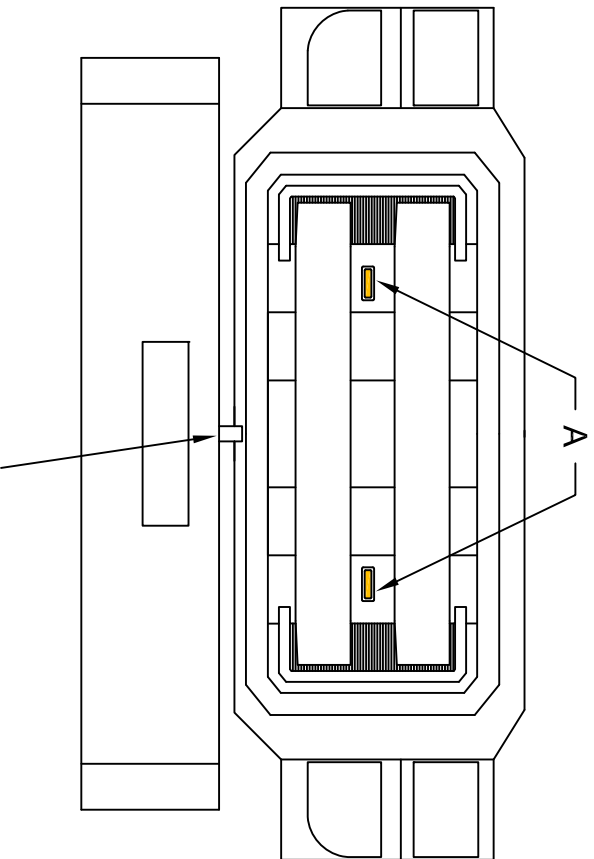
DRAWN BY	JJB	SCALE	N/A	EQN-139
DATE	05-26-16	CHRG BY		SHEET 1 OF 2

**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.

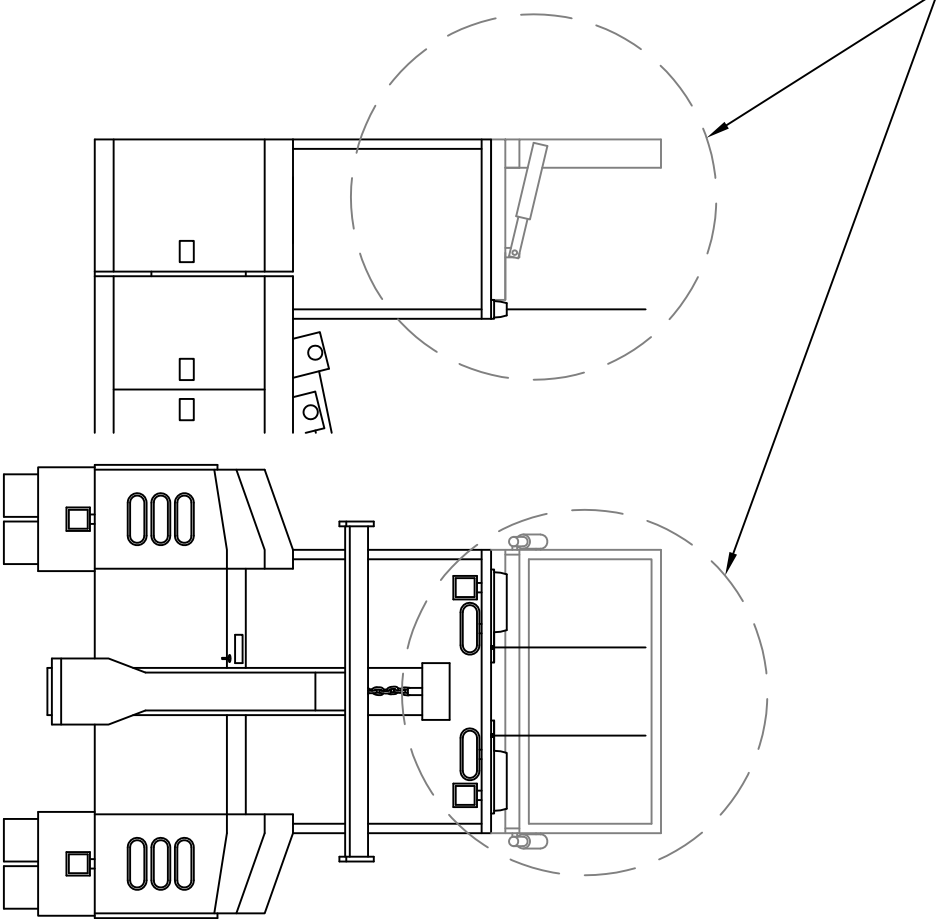
**LIGHTING NOTES:**

- A. TWO (2) TLIA WARNING LIGHTS. SURFACE MOUNTED ON GRILL. LIGHTS MOUNTED BEHIND GRILL ARE UNACCEPTABLE.

FRONT OF TRUCK



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

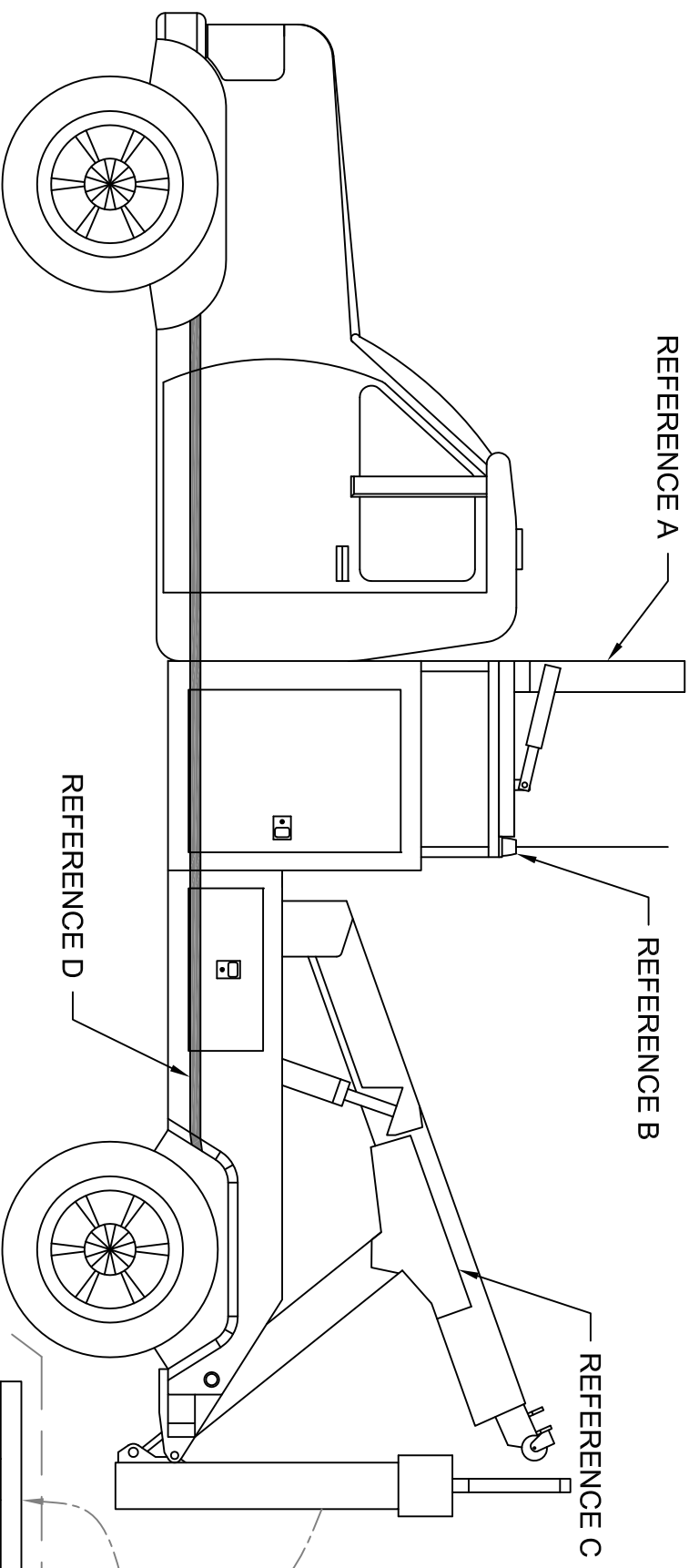


CHASSIS SHALL BE DESIGNED WITH ADEQUATE SPACE FOR USE OF TIRE CHAINS.

**PA DEPARTMENT OF TRANSPORTATION**

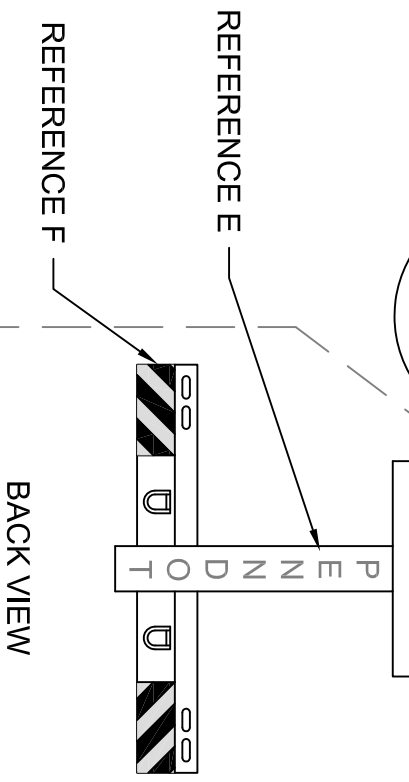
REVISIONS			WRECKER WITH ARROW BOARD		
NO.	DATE	BY	SCALE	DATE	CHRG BY
1			JJB	N/A	EQN-139
2					
3				05-26-16	SHEET 2 OF 2





**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.

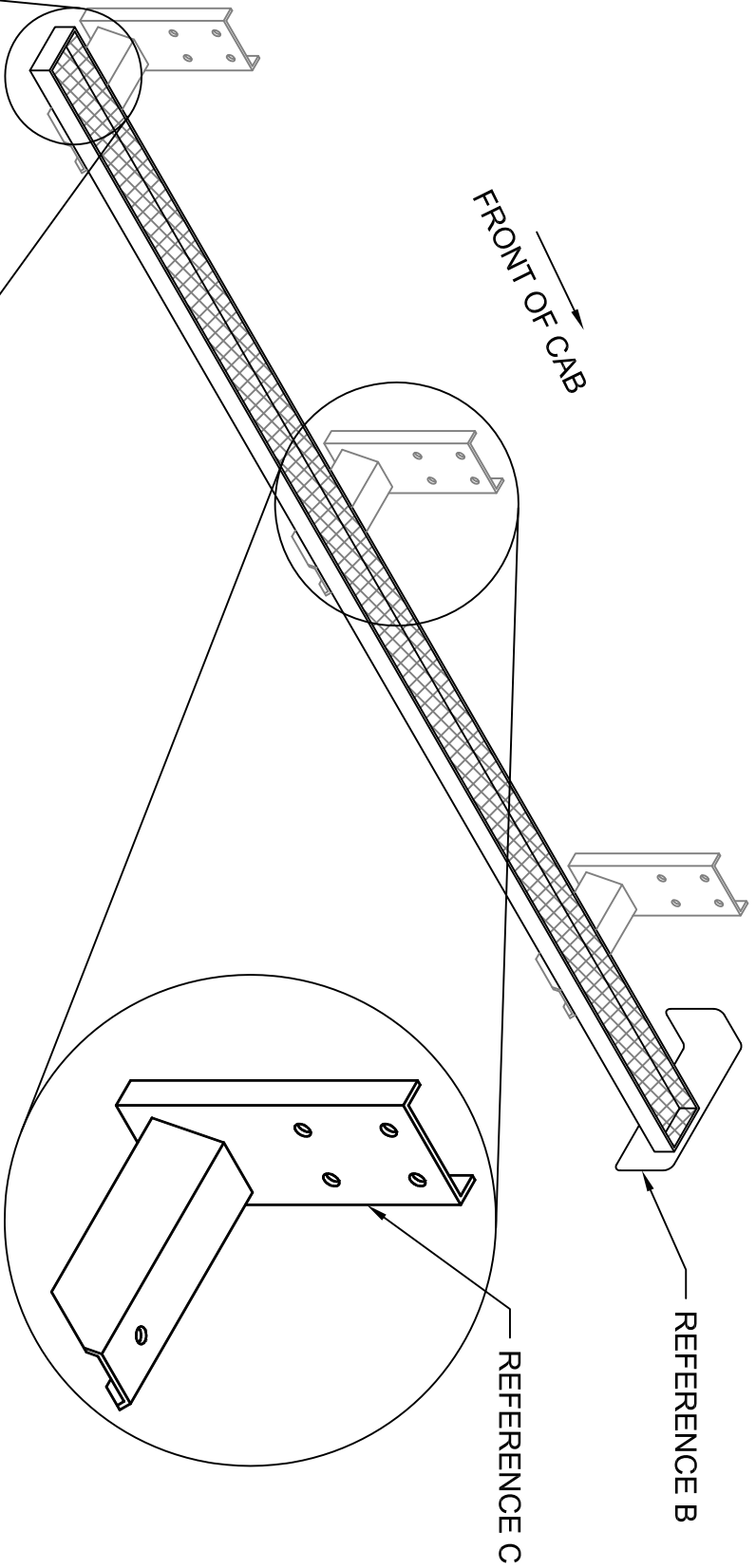


**PA DEPARTMENT OF TRANSPORTATION**

TOWTRUCK 19,500 LBS

REVISIONS			
NO	DATE	BY	
1	07-17-07	BAG	
2	08-07-08	MHH	
3	07-18-16	JJB	

DRAWN BY	DJA	SCALE	N/A	EQN-140
DATE	08-25-98	CHK'D BY	WHM	SHEET 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

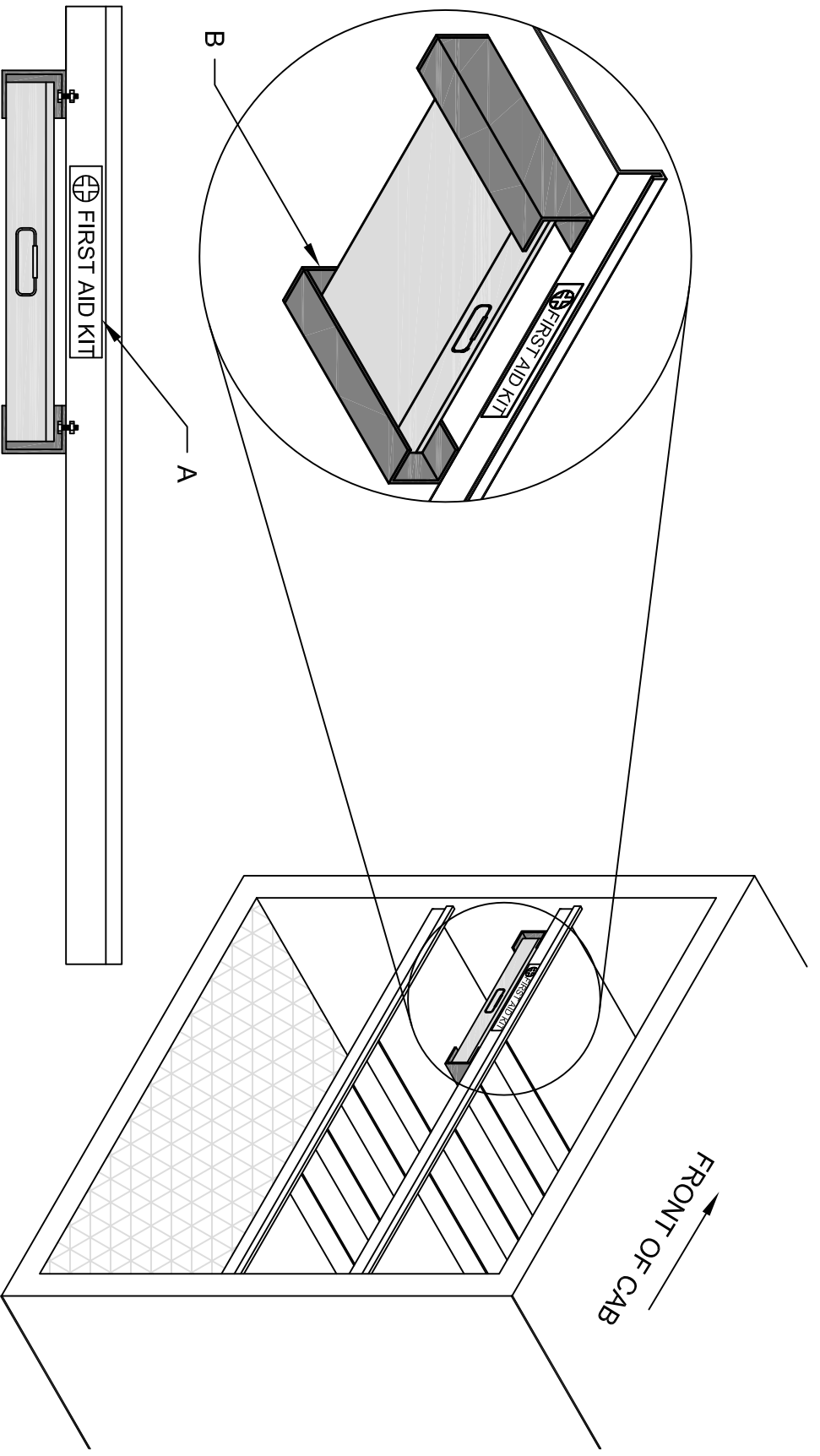
REFERENCE B

REFERENCE C

**PA DEPARTMENT OF TRANSPORTATION**

REVISIONS			DRAWN BY	SCALE	SHEET			
NO.	DATE	BY						
1						JJB	N/A	EQN-170
2								

RUNNING BOARDS					
3			DATE	07-19-16	SHEET 1 OF 1



**NOTES:**

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

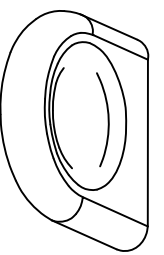
BRACKET SHALL BE DESIGNED TO SECURELY FIT ARBIL FIRST AID KIT (PN# SF00002155) AND SHALL ALLOW FOR QUICK EMERGENCY ACCESS TO KIT.

- 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.

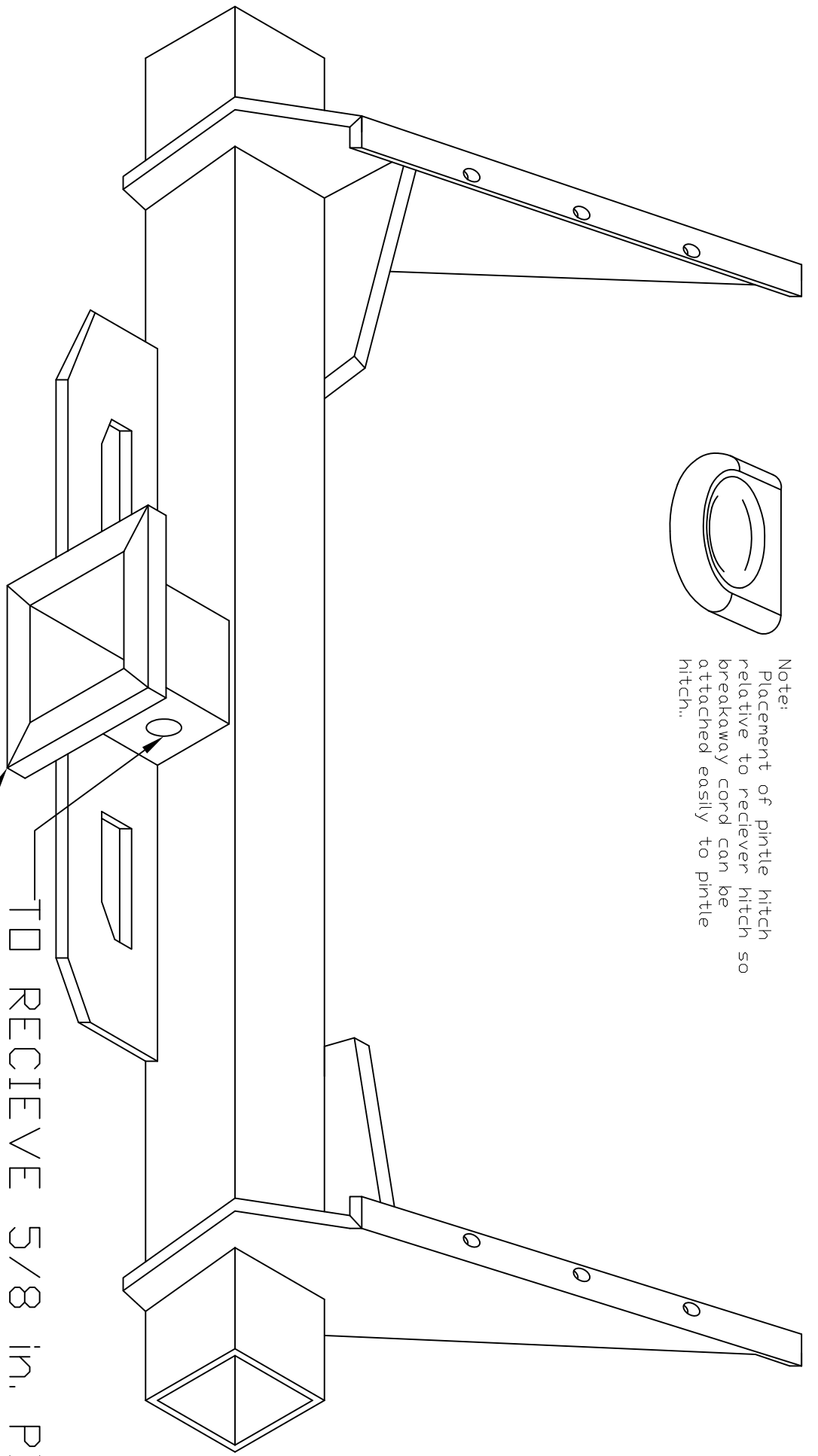
**PA DEPARTMENT OF TRANSPORTATION**

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

			DRAWN BY	JJB	SCALE	N/A	EQN-171
			DATE	07-21-16	CHK'D BY		SHEET 1 OF 1



Note:  
 Placement of pintle hitch  
 relative to receiver hitch so  
 breakaway cord can be  
 attached easily to pintle  
 hitch..



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

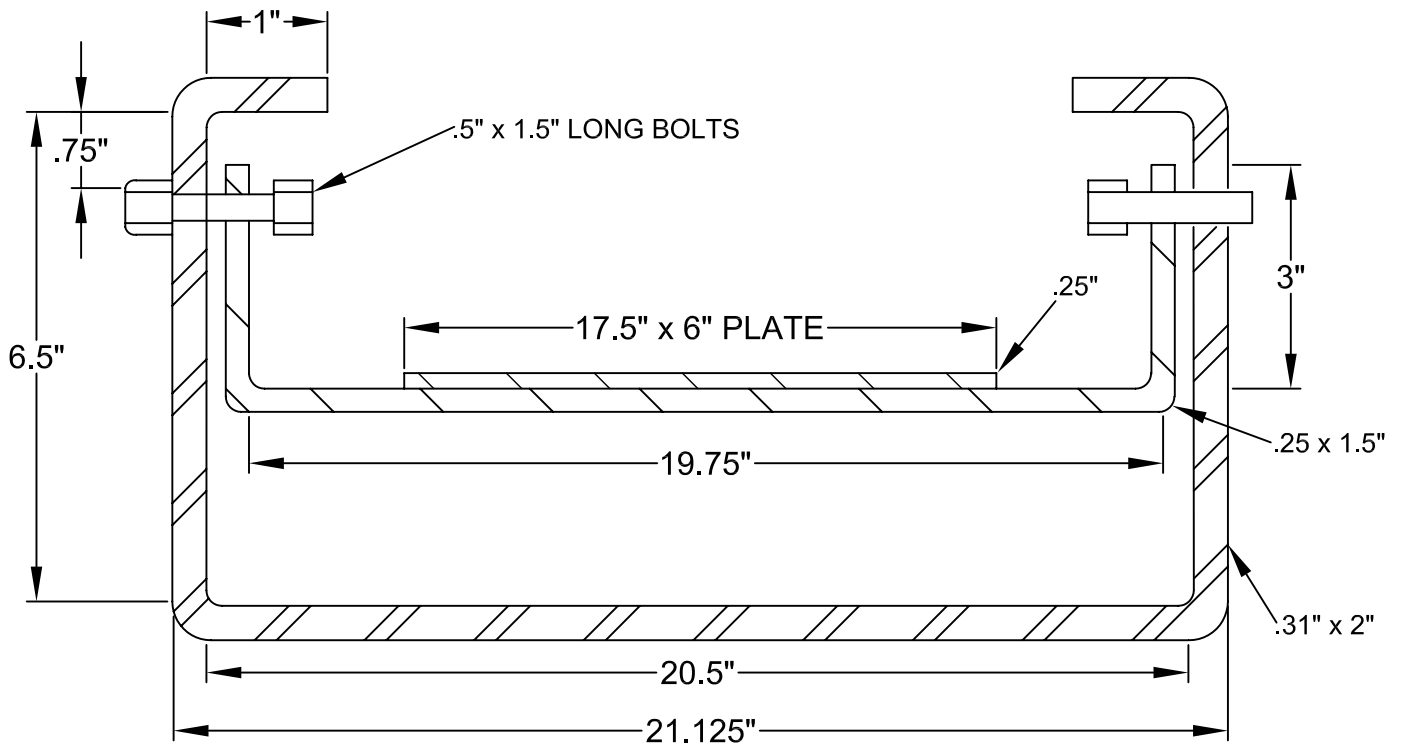
Michigan, or prior approved exact equal, no substitute

on dimensions, standardization.

PA DEPARTMENT OF TRANSPORTATION

REVISIONS		HITCH	
NO.	DATE	BY	WEIGHT DISTRIBUTING
1	08/08/06	CJW	DLW
2	11-03-06	CJW	DLW

SCALE	N/A	EQN-202B
CHK'D BY	KGK	SHEET 1 OF 1



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 04-04-02	CHK'D BY	SHEET 3 OF 3
4	01-07-10	TOD			

# SPECIFICATIONS FOR ROUND L.E.D. WARNING LIGHTS

## 1.) PERFORMANCE CHARACTERISTICS

- 1.1) THE LED BEACON SHALL MEET SAE J845, CLASS 1 CERTIFICATION IN SAFETY AMBER AND SHALL BE AMECA CERTIFIED.
- 1.2) THE PERMANENT AND PIPE MOUNT LED BEACON SHALL FEATURE A MINIMUM OF 7 SELECTABLE FLASH PATTERNS WITH AT LEAST 1 HAVING A FLASH RATE BETWEEN 60-120 FPM WHEN USED AS A SINGLE BEACON.

## 2.) ELECTRICAL CHARACTERISTICS

- 2.1) THE LED BEACON SHALL FEATURE SOLID-STATE CIRCUITRY, POLARITY, PROTECTION, AND NO MOVING PARTS FOR HIGHEST DEGREE OF RELIABILITY.
- 2.2) THE LED BEACON SHALL BE 12 VDC NOMINAL, STANDARD. THE STROBE BEACON SHALL HAVE A PUBLISHED AVERAGE AMP DRAW OF 4.0 AMPS AT 12 VDC (6.0 AMP PEAK AMP DRAW).
- 2.3) THE LED BEACON SHALL ALLOW OPERATION WITHOUT DEGRADATION OF INTENSITY OR FLASH RATE BETWEEN 10-16 VDC.

## 3.) PHYSICAL CHARACTERISTICS

- 3.1) THE LED BEACON SHALL FEATURE A HEAVY-DUTY BLACK POWDER-COATED DIE-CAST OR ALUMINUM BASE ASSEMBLY THAT CONTAINS ALL ELECTRONICS.
- 3.2) THE PERMANENT MOUNT LED BEACON SHALL NOT EXCEED 5" IN HEIGHT. DIAMETER SHALL NOT EXCEED 8".
- 3.3) THE LED BEACON POWER SUPPLY ELECTRONICS SHALL BE COMPLETELY ENCLOSED WITHIN THE BASE, WITH NO PARTS SUCH AS SCREWS, FASTENERS, OR WIRES BEING EXPOSED TO WHERE MOISTURE COULD CAUSE CORROSION.
- 3.4) THE LED BEACON SHALL BE AVAILABLE IN 2 STANDARD MOUNTING CONFIGURATIONS WHICH ARE AS FOLLOWS: 1"NPT PIPE, OR 3 MOUNTING HOLES FOR PERMANENT MOUNTING ON A FLAT SURFACE SPACED AT 120 DEGREES APART.
- 3.5) THE DOMES SHALL FEATURE AN AMBER OPTIC HARD COATED POLYCARBONATE LENS, AND A METALIZED REFLECTOR WITH CLEAR OPTIC COLLIMATORS. THE DOMES MUST MOUNT TO THE BASE OF THE STROBE BEACON VIA TWO (2) SCREWS.

## 4.) WARRANTY

- 4.1) THE LED BEACON SHALL BE WARRANTED BY THE MANUFACTURER TO THE USER TO BE FREE FROM DEFECTS OF MATERIAL OR WORKMANSHIP FOR A PERIOD OF SIXTY (60) MONTHS FROM THE DATE OF MANUFACTURE MINIMUM.

<b>PA DEPARTMENT OF TRANSPORTATION</b>						
<b>REVISIONS</b>			<b>ROUND L.E.D. WARNING LIGHTS</b>			
<b>NO.</b>	<b>DATE</b>	<b>BY</b>				
1	08-12-08	MHH				
2	06-16-15	JJB	<small>DRAWN BY</small> KNH	<small>SCALE</small> N/A	EQN-# 210D	
3	07-22-15	JJB	<small>DATE</small> 04-16-07	<small>CHK'D BY</small> KGK	SHEET 1 OF 1	

**TOWING AND HAULING INFORMATION**

VEHICLE MODEL \_\_\_\_\_  
 VEHICLE EMPTY WEIGHT \_\_\_\_\_  
 GVWR \_\_\_\_\_  
 GCWR \_\_\_\_\_  
 MAXIMUM WEIGHT \_\_\_\_\_  
 FOR EQUIPMENT \_\_\_\_\_  
 TOWED W/O BRAKES \_\_\_\_\_

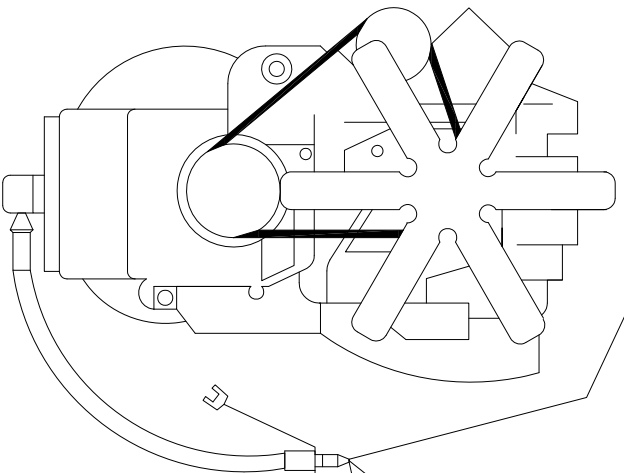
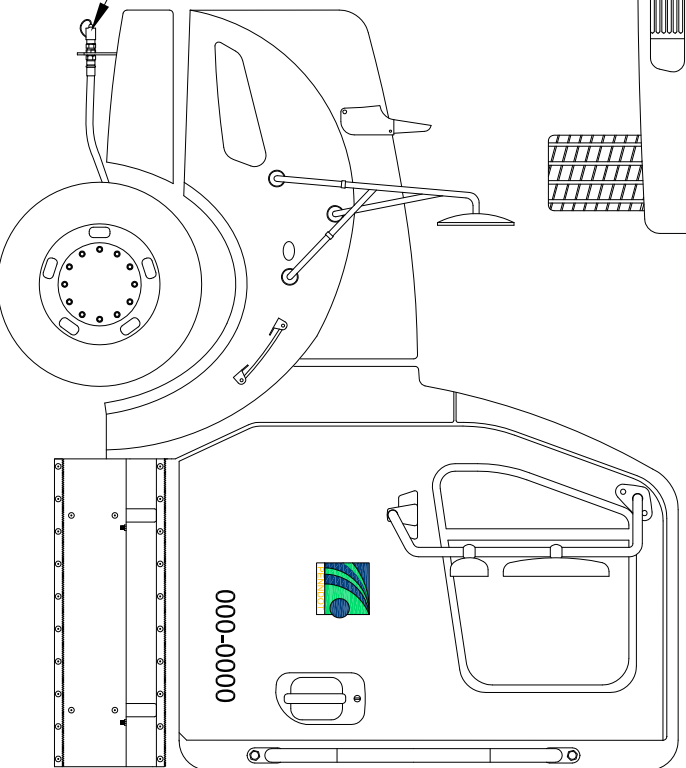
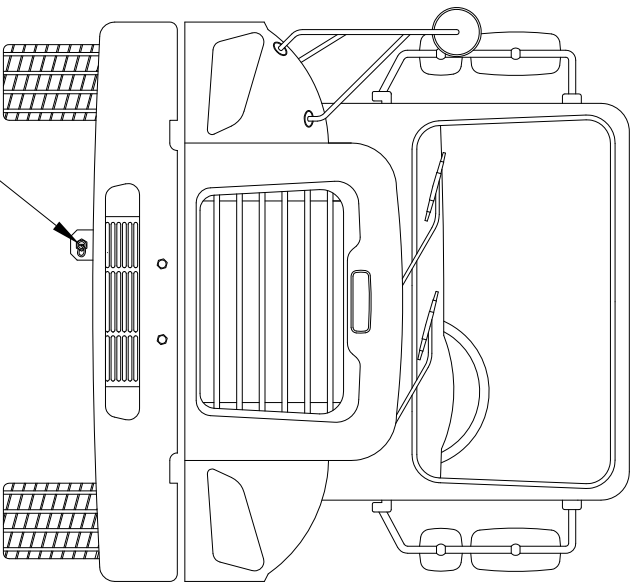
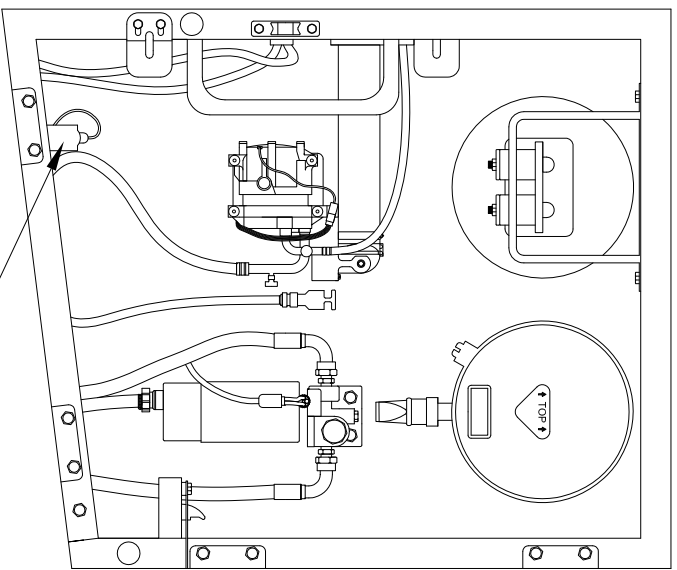
2.50 in.

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.

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



DISCONNECT  
COUPLING

FLOCS  
ENGINE KIT

**PA DEPARTMENT OF TRANSPORTATION**

**REVISIONS**

NO.	DATE	BY	SCALE
1	07-01-03	BLD	N/A
2	10-20-06	CJW	N/A
3	06-19-13	JFM	N/A

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

NO.	DATE	BY	SCALE
1	07-01-03	BLD	N/A
2	10-20-06	CJW	N/A
3	06-19-13	JFM	N/A

000-0000





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

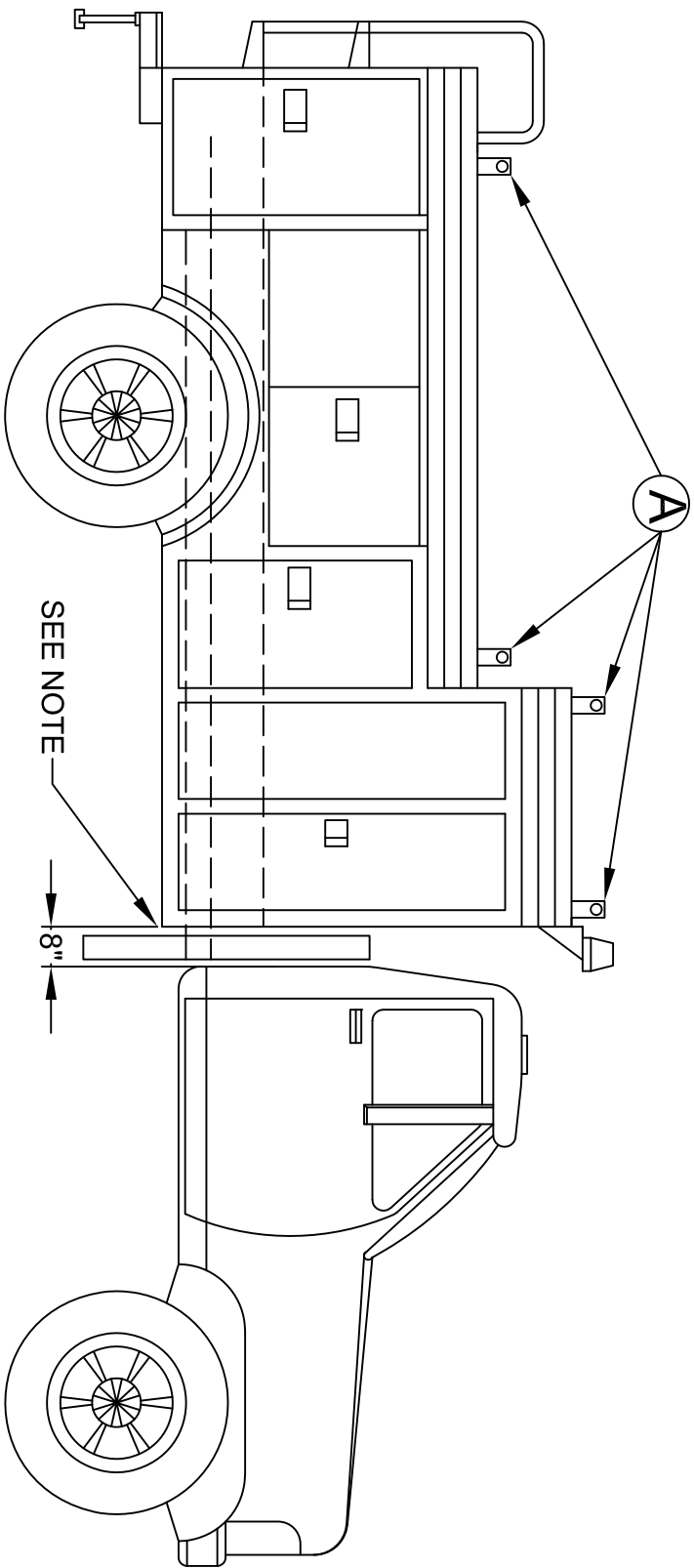
ADVANCED FLUID CONNECTORS..... 717-757-1068  
 AIR BRAKE & POWER EQUIPMENT CO.. 717-622-6188  
 AMERICAN BEARING & POWER..... 717-569-3291  
 GOODALL RUBBER COMPANY ..... 610-534-2100  
 POWER DRIVES INC..... 814-833-8181  
 R L MILLER INC..... 412-833-6800  
 R L MILLER INC..... 814-456-8900  
 SRG/BEVCO.....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

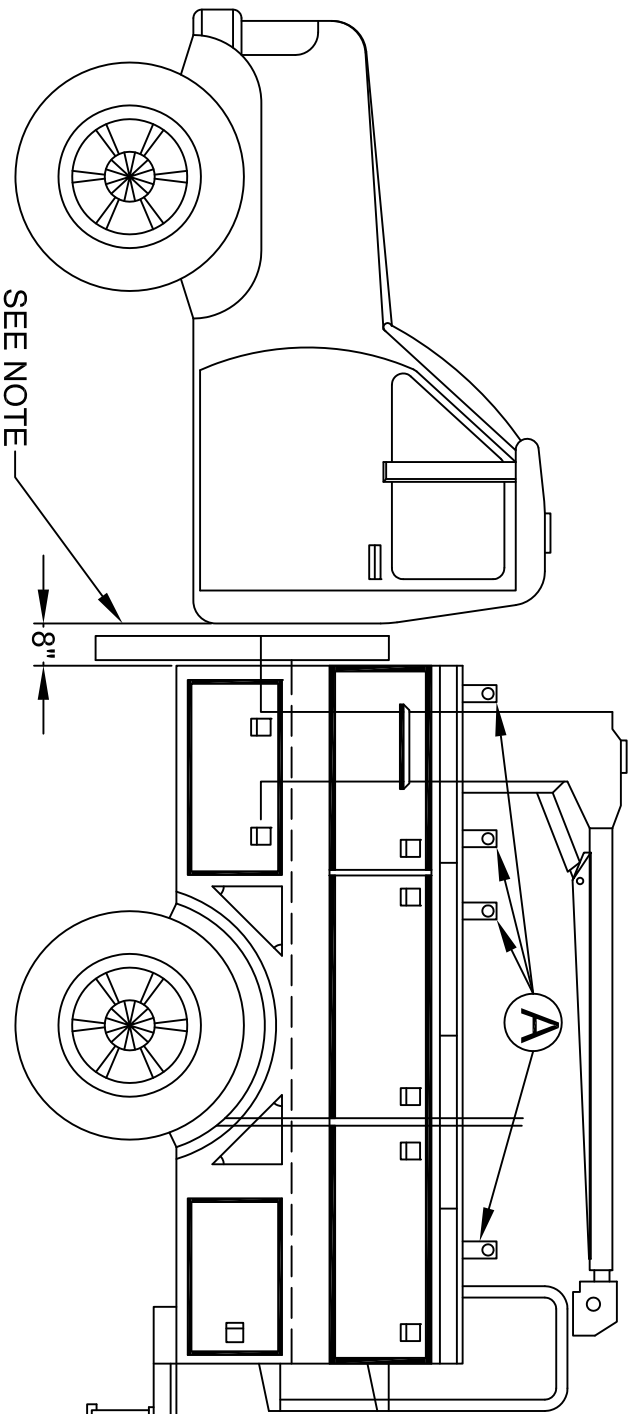
- SIGN CREW TRUCK (TYPE I)  
GENERAL SPECIFICATIONS
- ELECTRIC & HYDRAULIC POWER TO OPERATE EQUIPMENT
  - HYDRAULIC POUNDER & PULLER
  - UTILITY CARGO BOX

**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 EQN-483
3	08-29-14	ACT	DATE 10-24-97 CHECKED BY WHM SHEET 1 OF 8



SEE NOTE

8"

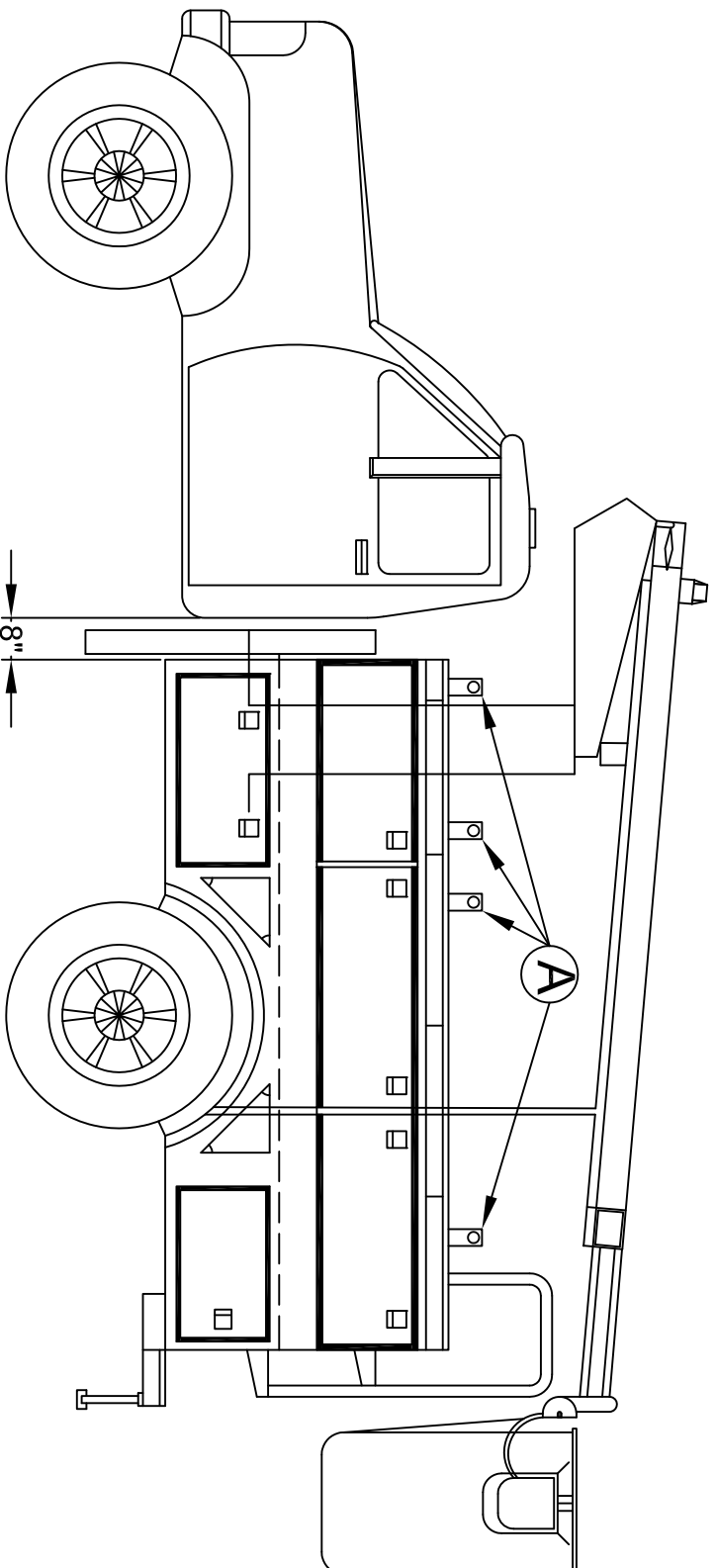
NOTE: OUTRIGGERS WILL NOT BE INSTALLED ON TYPES I & II. THE CARGO BOX WILL BE EXTENDED 8" FOR ADDITIONAL STORAGE OR AN ADDITIONAL COMPARTMENT WILL BE ADDED TO STORE LARGER SIGNS ACROSS THE ENTIRE WIDTH OF THE CAB.

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

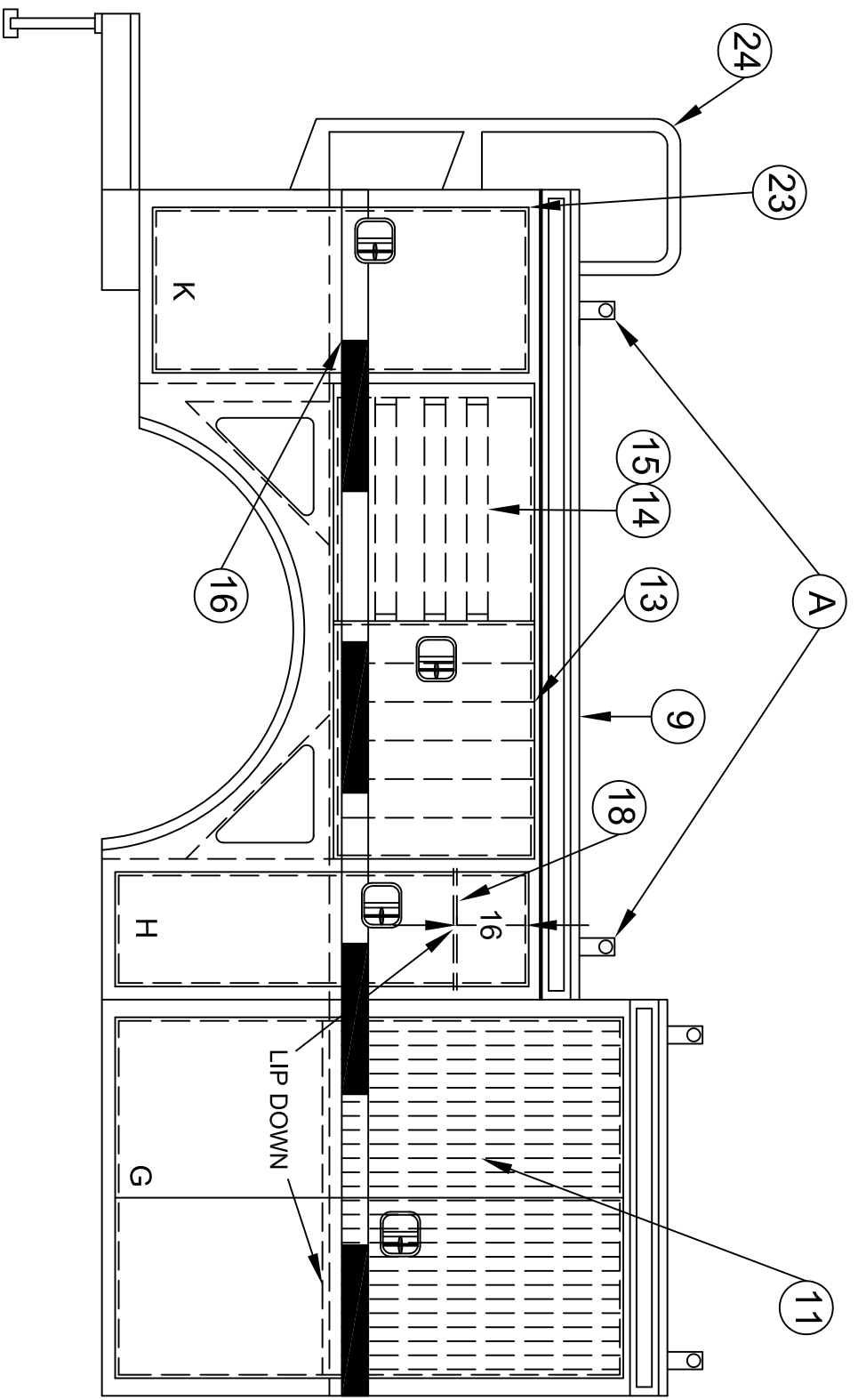
**NOTE:  
SEE WRITTEN SPECIFICATIONS  
FOR STAHL AND WARNER BODY**

**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.

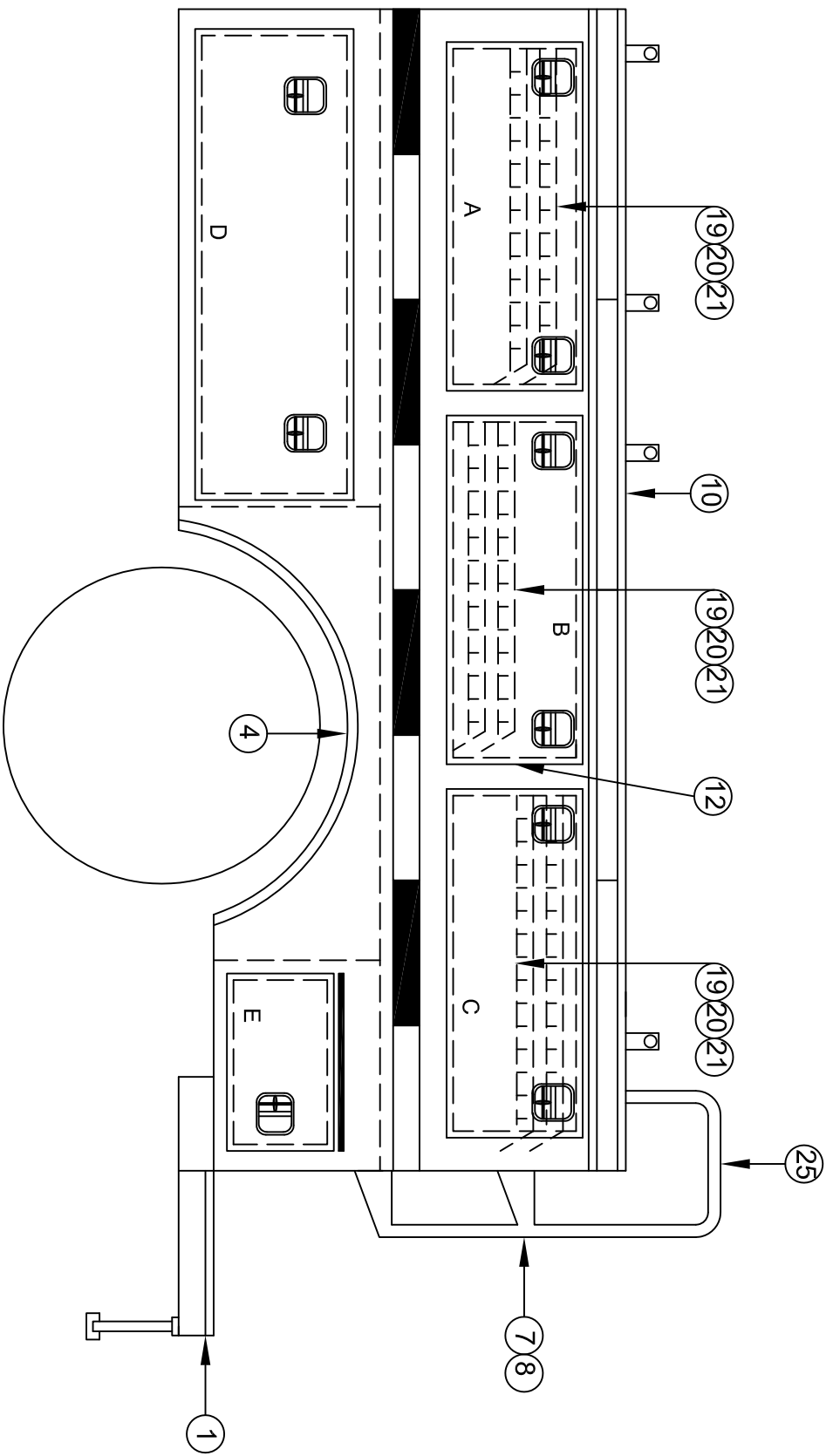
PA DEPARTMENT OF TRANSPORTATION

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**

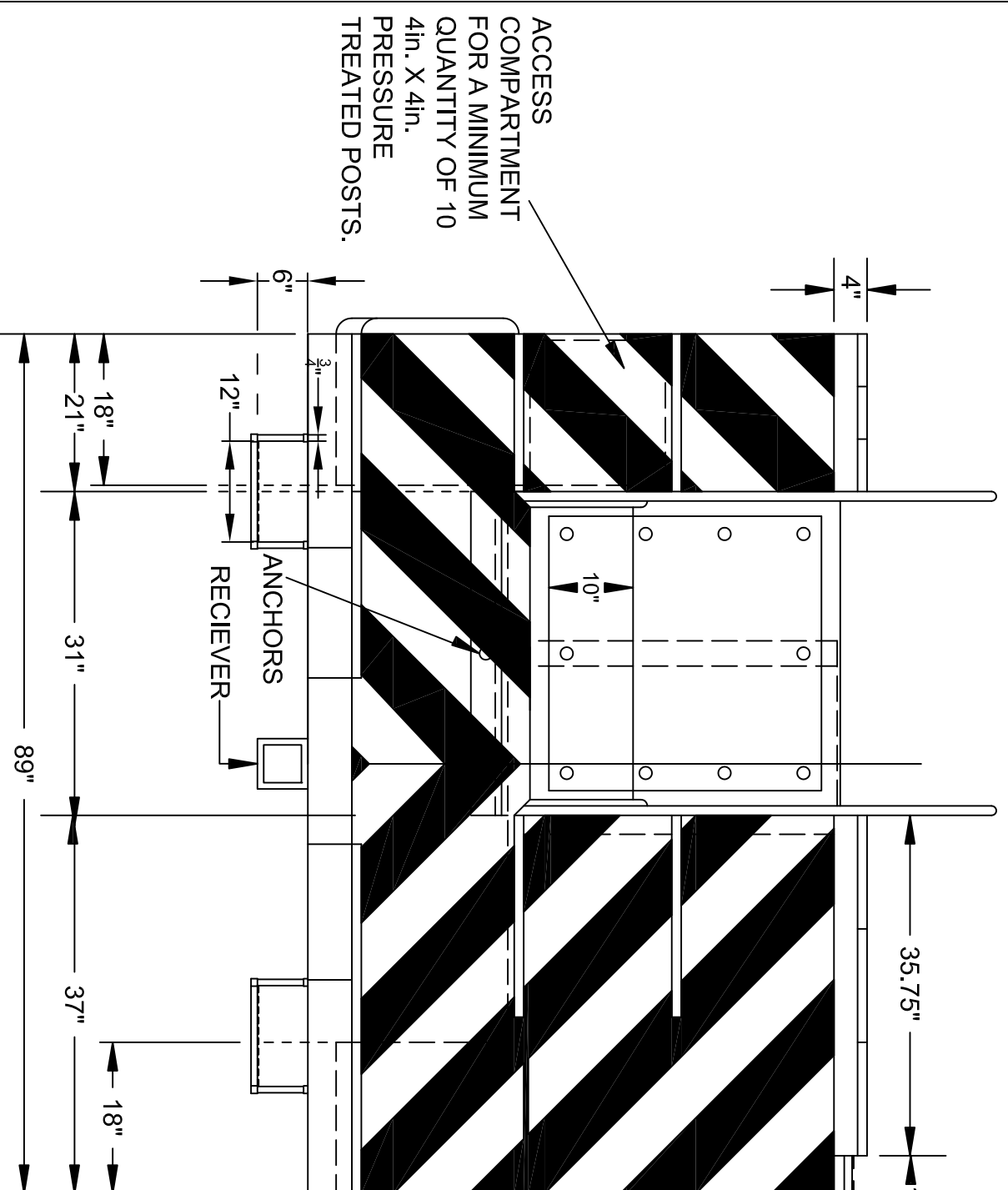
**SIGN TRUCK**

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.

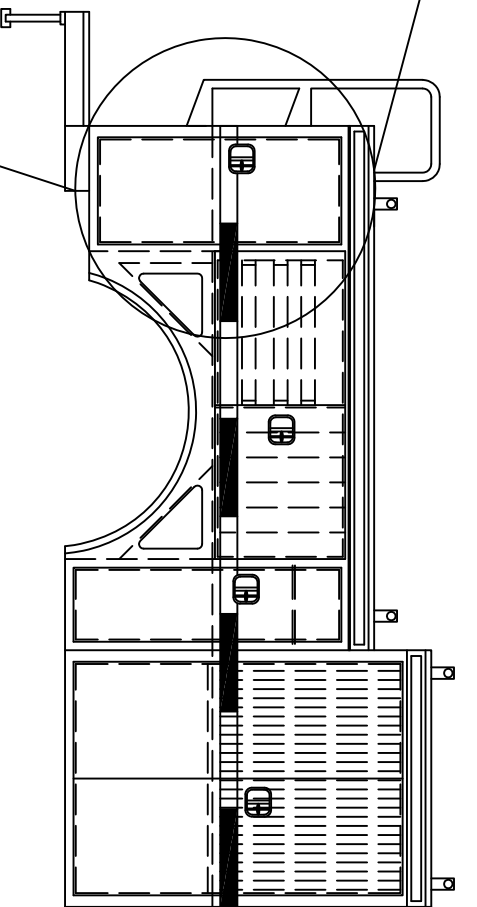
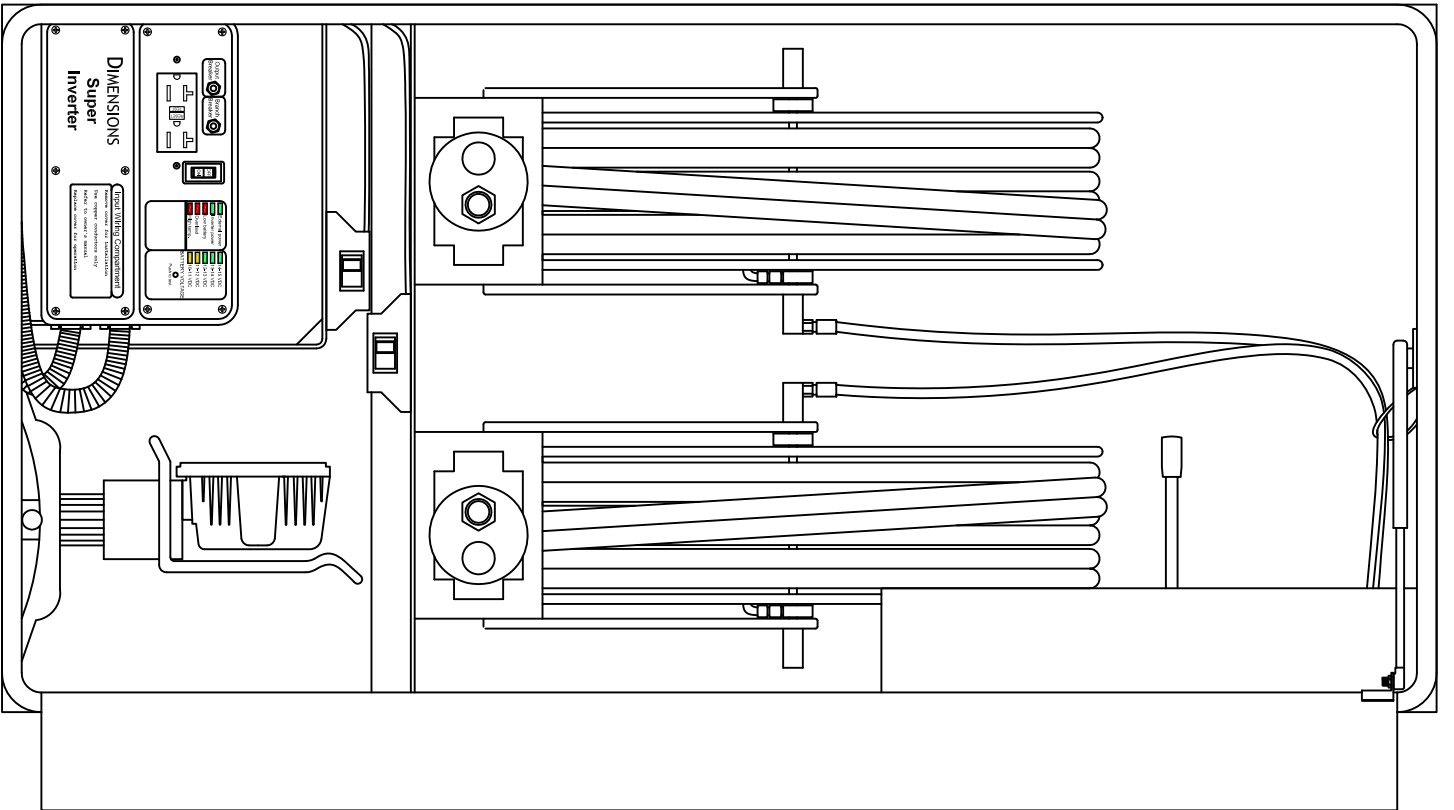
25	2		GRAB RAIL
24	1		TOP HINGE (BACK TO BACK)
23	2		RUBBER DOOR BUMPER
22	2		SHELF REINFORCEMENT
21	4		SHELF REINF x 33.35
20			ADJUSTABLE DIVIDERS
19	4		ADJ. MAT'L TRAY
18	1		TANK HOLDER SHELF
17	1		FLAT PLATE DOOR
16	2		SPACER PANEL
15	3PR		GRANT TRACK
14	3		ROLL-OUT TRAYS
13	1		SIGN STORAGE COMP
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**

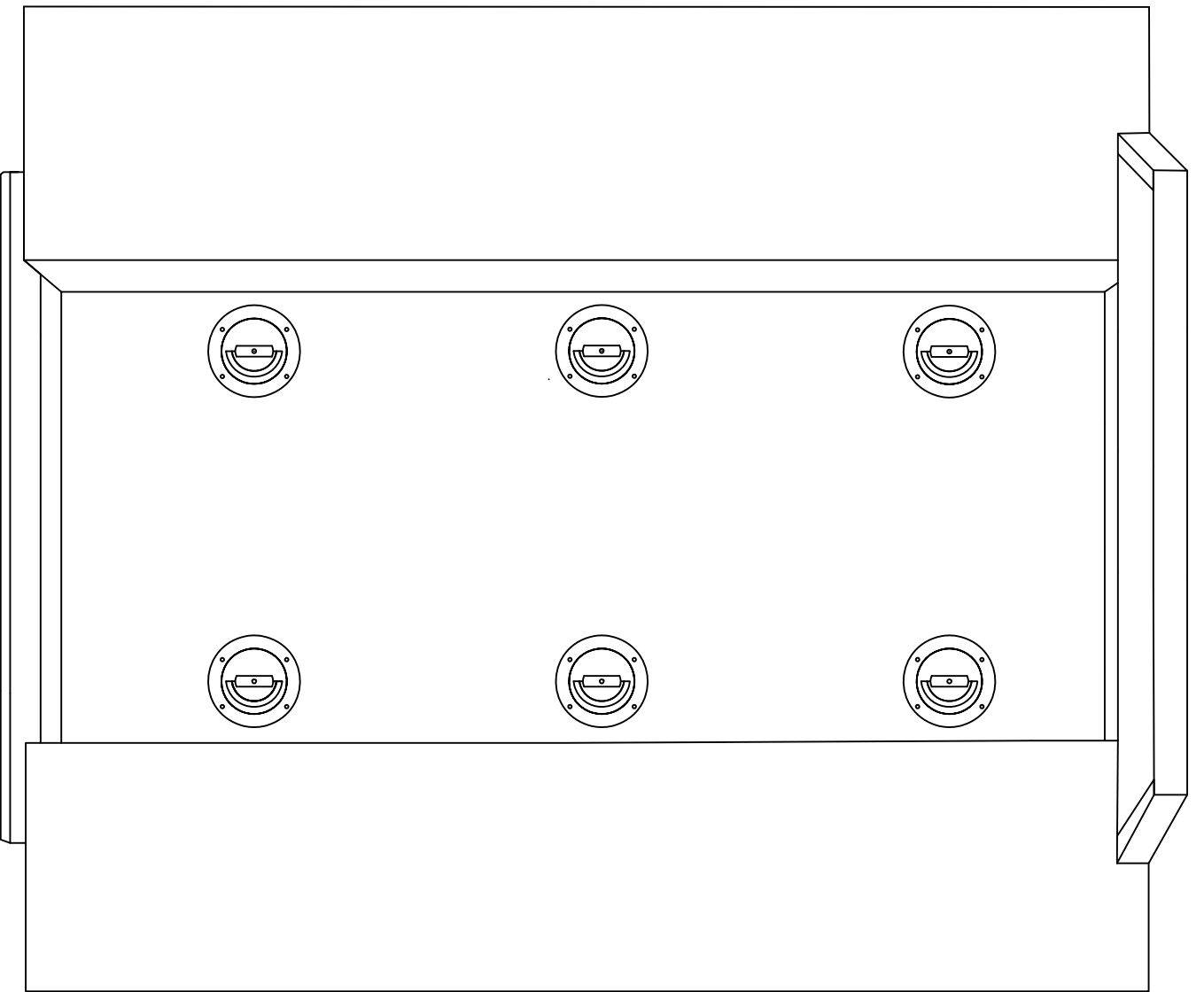
**REVISIONS**

NO.	DATE	BY
1		
2		
3		

**SIGN TRUCK**

**REAR CABINET INSIDE**

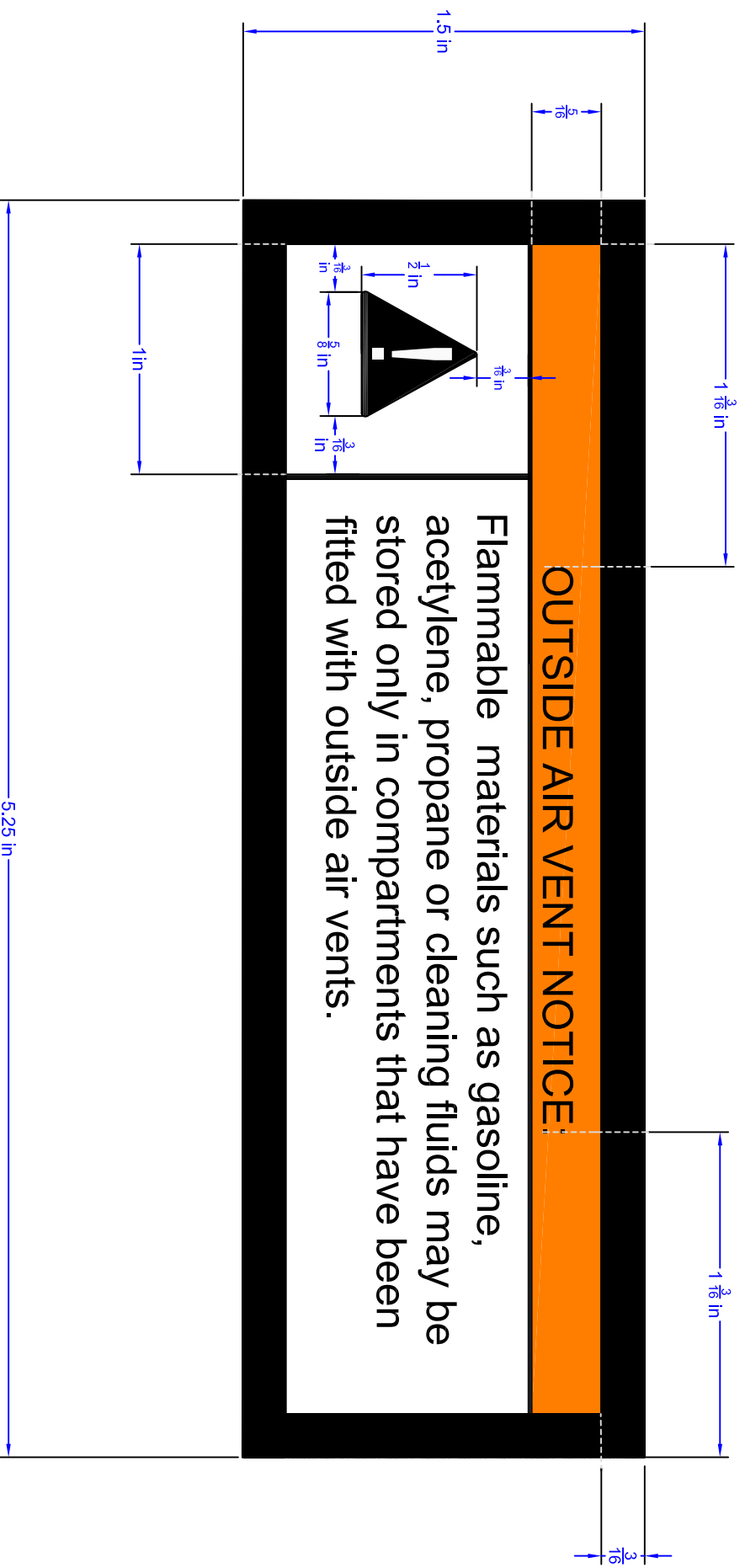
NO.	DATE	BY	DRAWN BY	SCALE	CHECKED BY	EQN-483
1			ACT	N/A		
2						
3						



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	DRAWN BY	SCALE
1			KBD	
2				EQN-1083
3				

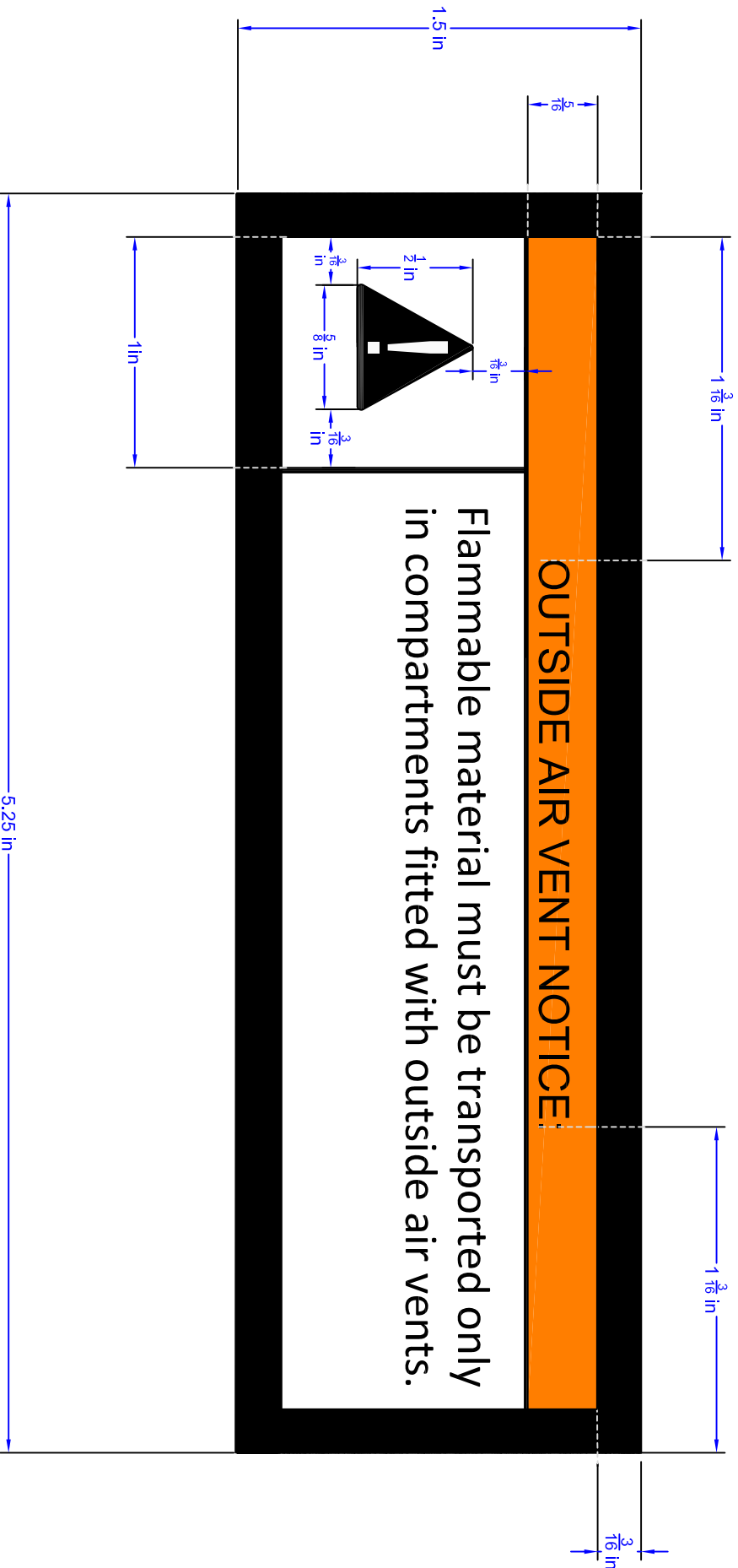


**OUTSIDE AIR VENT NOTICE**

Flammable materials such as gasoline, acetylene, propane or cleaning fluids may be stored only in compartments that have been fitted with outside air vents.

**Note:**  
 Border is solid black and grey lines shouldn't appear on sticker.

<b>PA DEPARTMENT OF TRANSPORTATION</b>			<b>Warning Sticker</b>	
<b>REVISIONS</b>				
<b>NO.</b>	<b>DATE</b>	<b>BY</b>		
1				
2				
3				
			<b>DRAWN BY</b>	<b>SCALE</b>
			KBD	
			<b>DATE</b>	<b>CHKD BY</b>
			<b>EQN-1089-A</b>	

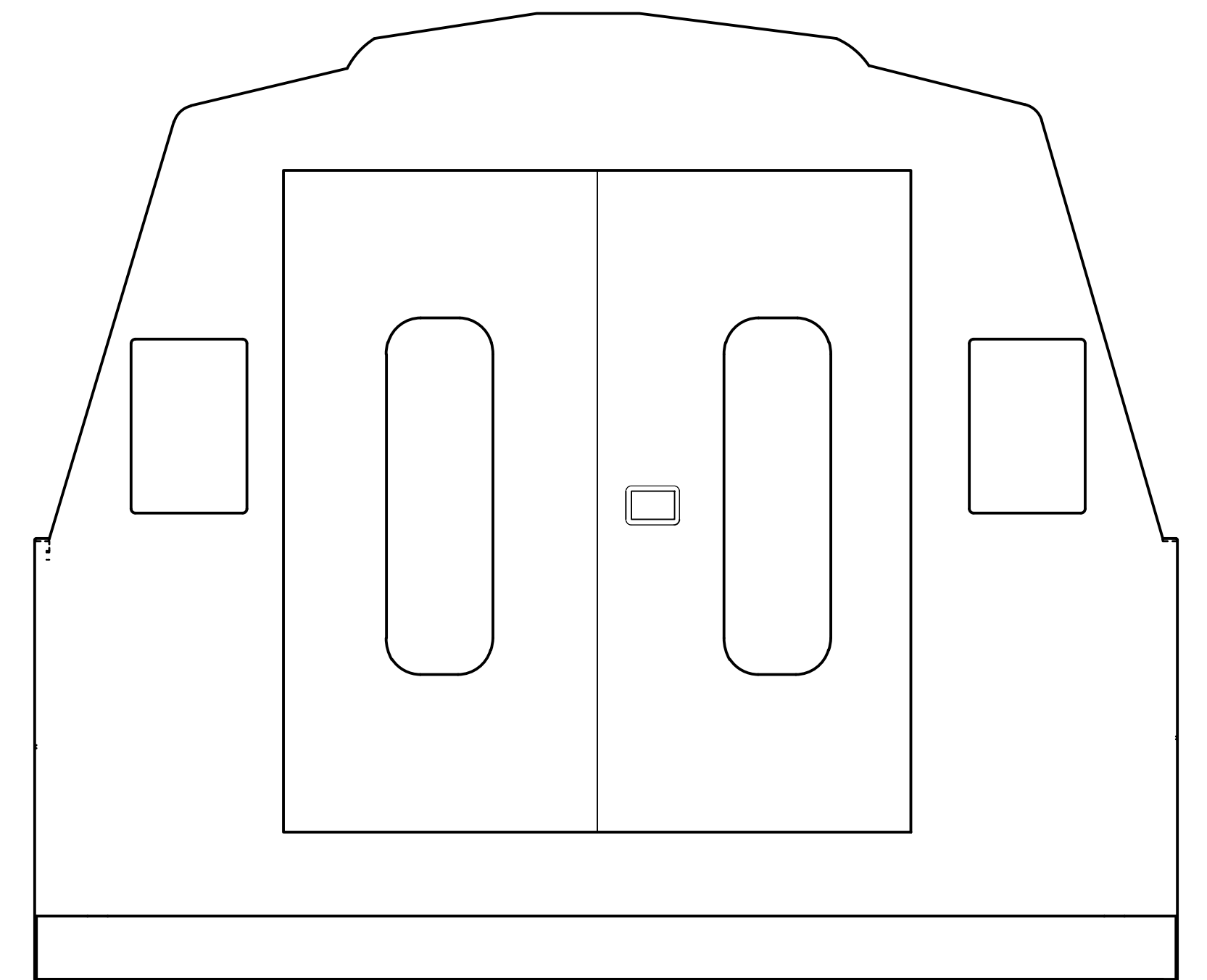
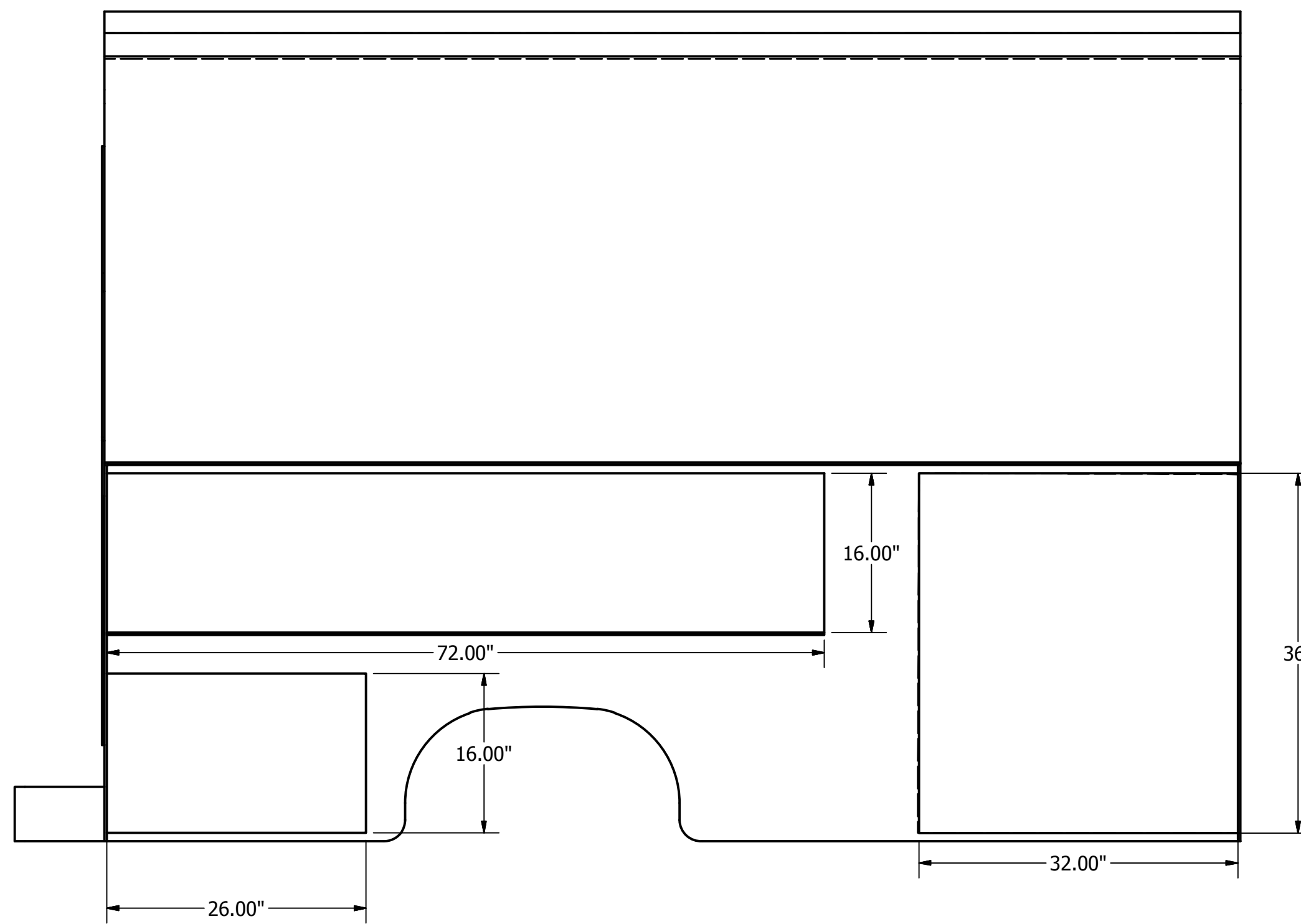
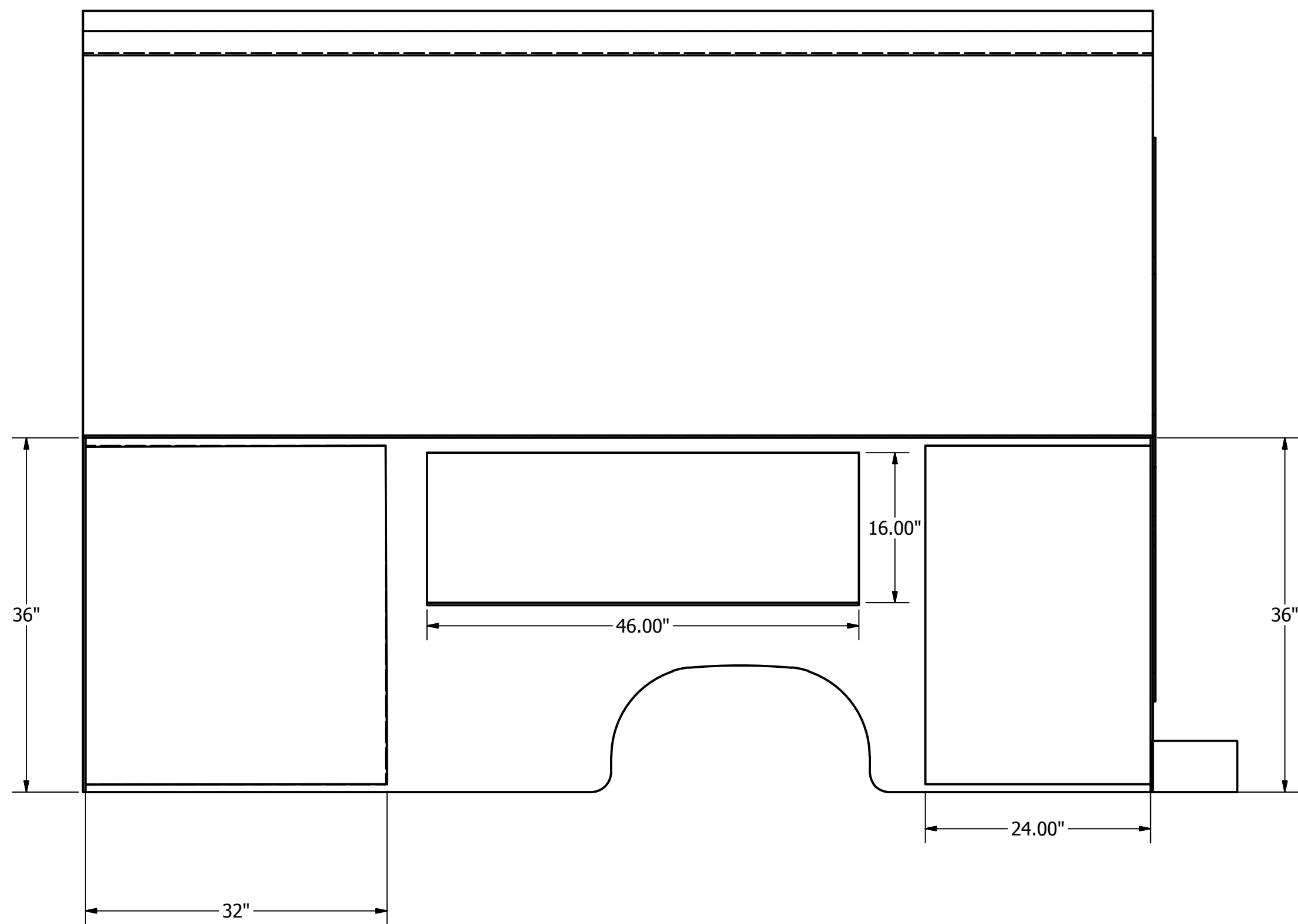
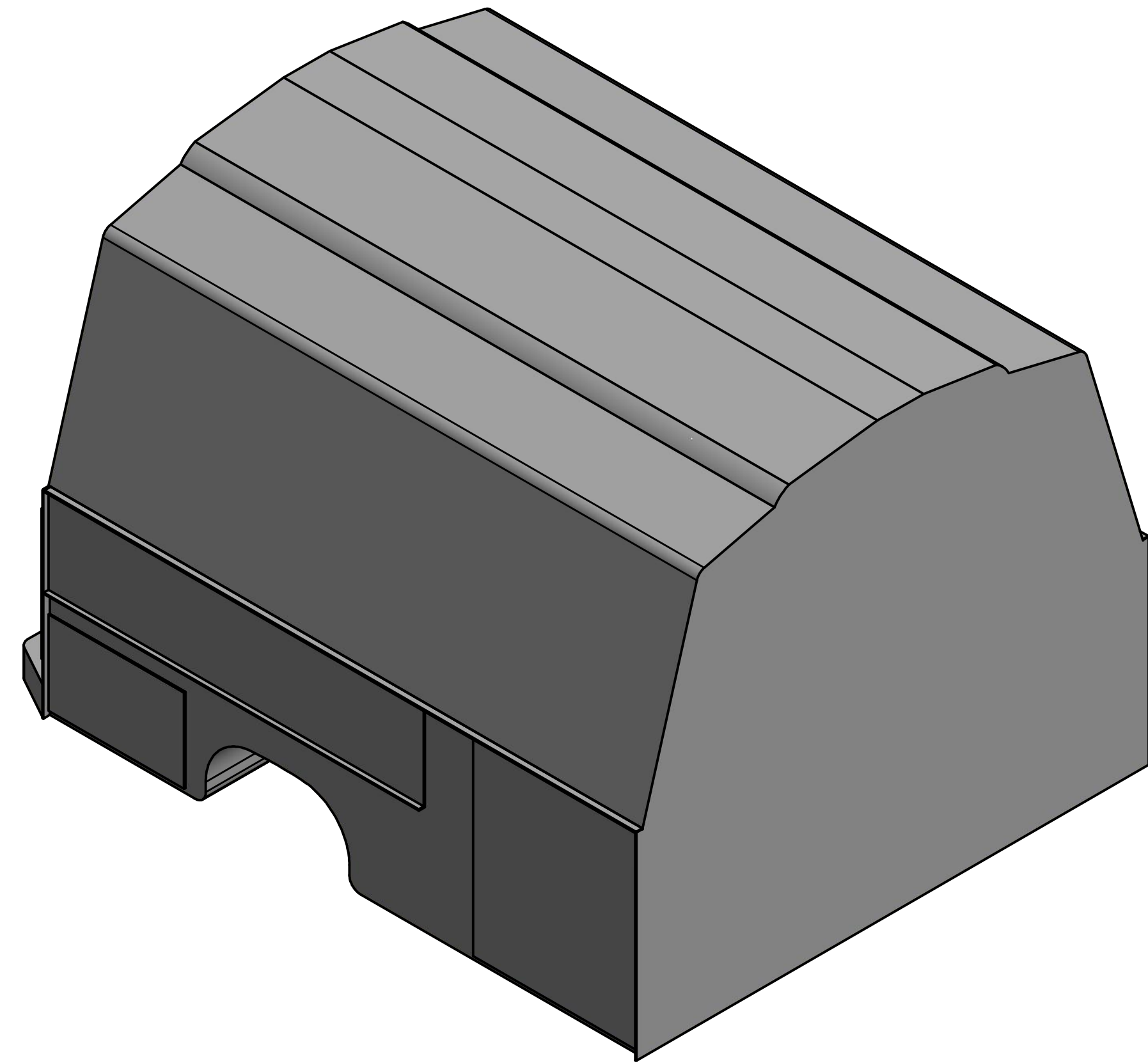
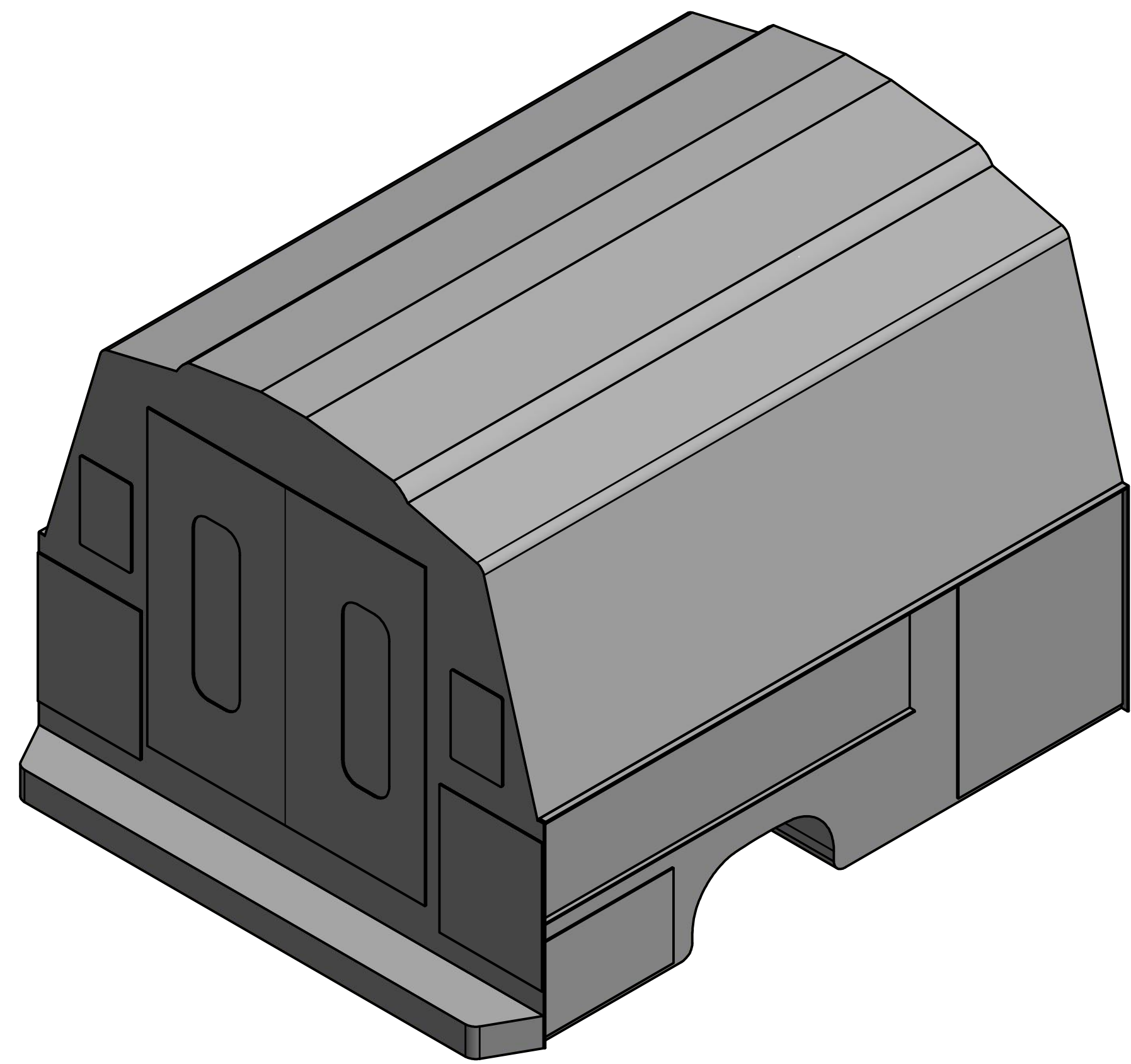


**PA DEPARTMENT OF TRANSPORTATION**

**REVISIONS**

NO.	DATE	BY	Warning Sticker Inside
1			
2			
3			

DRAWN BY: **KBD** SCALE: **EQN-1089-B**



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