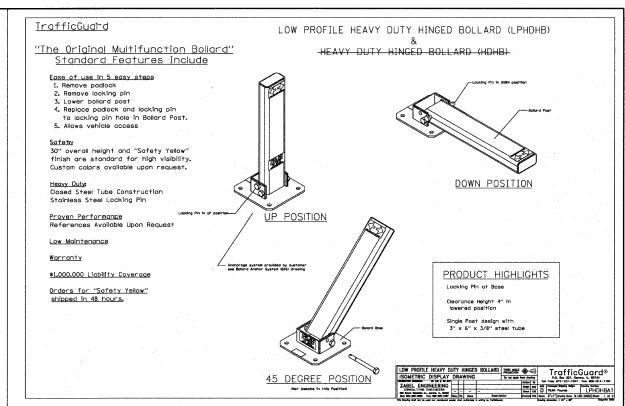
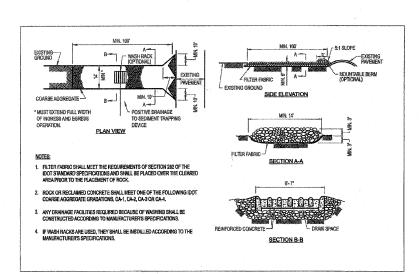
(HDHB & LPHDHB)

## OW PROFILE HEAVY DUTY HINGED BOLLARD

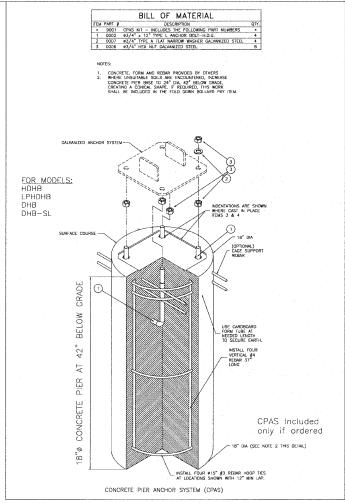
- 1. Verify that all Low Profile Heavy Duty Hinged Bollard parts are in the shipment package as shown on the "Bill of Material".
- 2. Provide Low Profile Heavy Duty Hinged Bollard Anchor System (see included Anchor System Drawing-BAS) of your choice at a location to suit your specific needs.
- 3. Install LPHDHB Base (Item 2) true and level on your selected Anchor System using the flat washers and hex nuts included in your Anchor System Kit. Use S.S. shims to level if needed. Torque hex nuts to Minimum 100 ft-lbs for Anchor Systems CPAS and ESAS. Torque hex nuts for other Anchor Systems to Manufacturers Specification.
- 4. Install LPHDHB Post (Item 1) to LPHDHB Base (Item 2) using Hinge Bolt (Item 3), Flat Washer (Item 5), and Hex Nut (Item 4) as shown. Tack Weld Hex Nut to Hinge Bolt or Chisel Hinge Bolt Threads such that Hex Nut cannot be easily removed.
- 5. Install Locking Pin thru UP Position Bollard Post, and install Padlock where shown. A Hex Nut (Item 4) is included in case a padlock is not available.
- 6. Install the four Labels at the locations shown.
- 7. Check the functional operation of the Low Profile Heavy Duty Hinged Bollard.
- \* Note: S.S. shims, tools, grease, and padlocks are not provided.

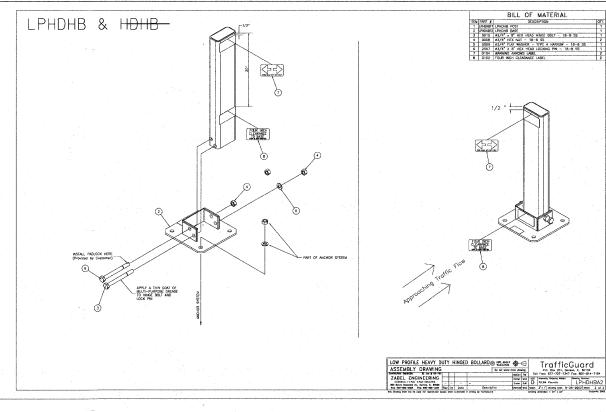
LOW PROFILE HEAVY D	UTY	1	HNGER	BOLLARD	THIS AND E	•	ā	Г	Traffic	Guard®		
ASSEMBLY DRAWING					Do not scale from deceing			P.O. Box 201, Gavero, IL, 80134 Toll Free; 877-727-7347 Fox: 800-814-7194				
ZABEL ENGINEERING	H	Н				Design	ws.Z	sec	Assembly Shipping Weight	browing Humber:		
CONSIG.TING ENGINEERS SEE SHIP DANNED IN, AUGUS, IL ASSESS	=	-	-	~		Drumt	CO	ט	70.04 Pounds	LPHDHBA		





THE FOLLOWING SHALL BE PROVIDED AT ALL LOCATIONS REQUIRING ACCESS WITHIN THE CITY OF CRYSTAL LAKE RIGHT-OF-WAY. THIS WILL BE INCLUDED IN THE TEMPORARY ACCESS (COMMERCIAL ENTRANCE) PAY ITEM.





THE LOW PROFILE HEAVY DUTY HINGED BOULARD (LPHDHB) SHALL BE FURNISED AND INSTALLED. THIS WILL BE INCLUDED IN THE FOLD DOWN BOLLARDS PAY ITEM.



USER NAME = 418ejc	DESIGNED	-	AEB	REVISED	-	PER	IDOT	3/25/11
	DRAWN	**	RKM	REVISED	-			
FILE NAME = 090593-MIS-DETAILS.sht	CHECKED	-	MDW	REVISED	~			
PLOT DATE = 3/31/2011	DATE	-	1/26/11	REVISED	-			

MCHENRY COUNTY CONSERVATION DISTRICT RIDGEFIELD TRACE EXTENSION BICYCLE PATH

1				F.A. RTE.	SEC	COUNTY	TOTAL	SHEI	
	MISCELLANEOUS	N/A	00-0200	McHENRY	25	18			
		JOB	NO: C-91-711	-10	CONTRACT	NO. 63578	3		
	SCALE:	STA.	TO STA.	FED. R	OAD DIST. NO. 1	ILLINOIS FED	AID PROJECT	VO: CMM-900	3 (680
	· · · · · · · · · · · · · · · · · · ·			MoHE	MRY COUNTY	CONSERVATIO	N DISTRICT	RID #0311	09.01

MCHENRY COUNTY CONSERVATION DISTRICT BID

e 2011, F ILLINOIS 0. - 184-0