## **DETAIL OF SURVEY MONUMENT COVER ASSEMBLY**

TO BE INSTALLED OVER EXISTING MARKERS FOR LAND SURVEY MONUMENT, P.C.'S , P.I.'S AND P.T.'S AT LOCATIONS SHOWN ON PLANS TWO-COMPONENT EPOXY INSIDE OF 200 (8)
DIAMETER CORE HOLE SPECIFICATIONS FOR ACCESS COVER FOR USE WITH SURVEY MARKER (VAULITS)
AND SURVEY MARKER COVER ASSEMBLY(S): THE ACCESS COVER WILL BE CAST
FROM A SPECIAL ALUMINUM ALLOY THAT IS COMPARABLE TO BROWLE IN
HARDNESS. THE ACCESS COVER SHALL BE SPECIALLY ENGINEERED AND
DESIGNED TO PROVIDE A SNUG FIT, INCORPORATING EQUIDISTANT LOCKING
RIDGES, INSIDE A STANDARD 150 mm (6") DIAMETER, OR OUTSIDE A STANDARD
125 mm (5") DIAMETER, SCHEDULE 40 PVC PIPE. THE ACCESS COVER SHALL HAVE
SPECIAL UNIFORM 25 mm (1") THICK TOP SURFACE TO PERMIT INFORMATION TO BE
EASILY MACHINED-STAMPED INTO IT. THE ACCESS COVER SHALL INCLUDE A
STAINLESS CAPTURED SCREW AND AN OPPOSING RECESSED HINGE ASSEMBLY AS
ITS LOCKING MECHANISM. THE ACCESS COVER SHALL INCORPORATE A SPECIAL
ACCESS HOLE FOR CLEANING AND DRAINAGE, DRILLED AT 30" INSIDE THE
RING OF THE ACCESS COVER, TO THE DRILLED AND TAPPED HOLE PROVIDED
FOR THE STAINLESS CAPTURED SCREW. COMPOSITION ALUMINUM 92-93",
MAGNESIUM 6.5-7.5%. STRENGTH; YIELD - 131-145 MPG (19,000-21,000 PSI);
TENSILE - 262-303 MPG (39,000-44,000 PSI); ELONGATION - 10-152 IN
50 mm (2"). SPECIFICATIONS: ALLOY 535.0; QQ-A-601ES. NO EXCEPTIONS. SEE LID HINGE IO (%) DIAMETER TO BE DRILLED IN THE FIELD. 200 (8) DIAMETER CORE HOLE <u>PLAN</u> ACCESS COVER LEGEND PROVIDE 2 (1/16) CLEARANCE ALUMINUM CASTING AROUND LID -CAPTURED SCREW 125 (5) OR 150 (6) P.V.C. PIPE TWO-COMPONENT EPOXY SEC. D-D 184 (71/4) SEC. A-A SEC. B-B 140 (51/2) 89 (31/2)// 70 (23/4)/2 141 (5% OUTSIDE OF 200 (8) DIA SEC. A-A SEC. D-D SEC. B-B 5 (张) HOLE DRILL 5 (3/16) FOR DRILLED AT 30° SEC. C-C 70 (23/4)/ M8 X 50 (1/6 X 2) BOLTS AND NUTS

SERVE AS ANCHORS IN THE SPECIFIED PROPOSED EPOXY IN ALL INSTALLATIONS. RESURFACING LID HINGE DETAIL EXIST. SURFACE EXISTING SURVEY MONUMENT TO **ELEVATION** BE PROTECTED PVC PIPE WILL BE REQUIRED WHEN ASPHALT DEPTH IS GREATER THAN 65 (21/2).

## **GENERAL** NOTES

- 1. WORK SHALL NOT START ON THIS ITEM UNTIL THE FINAL LIFT OF CLASS I HAS BEEN COMPLETED.
- 2. THE SURVEY MONUMENT COVER ASSEMBLY SHALL BE CENTERED ABOVE THE SURVEY MONUMENT TO BE PROTECTED.
- 3. MODIFICATION OF THE ALUMINUM CASTING SHALL BE DONE BY GRINDING OR SAWING WHEN HEIGHT REDUCTION IS REQUIRED.
- 4. ALL SURYEY MONUMENT COVER ASSEMBLIES SHALL BE PLACED 6 mm (  $^{1}\!\!/_{4}$  ") ± BELOW THE FINAL SURFACE.
- 5. ALUMINUM CASTING SHALL BE PLACED OVER A 125 mm (5") P.V.C. PIPE OR INSIDE OF A 150 mm (6") P.V.C. PIPE WHEN AN INCREASE IN HEIGHT IS REQUIRED.

All dimensions are in millimeters (inches)

uniess otherwise shown.										
	NAME	DATE	REVISIONS		REVISIONS					
DESIGNED	A.W.H.	2-28-91	NAME	DATE	NAME	DATE				
CHECKED	J.H.M.	2-28-91	A.W. HAYES	8-22-91	D.L.P.	10-96				
CADD NO.	D-1.04		G.A.M.	H-95						

- 6. THE CASTING SHALL BE ANCHORED IN THE 200 mm (8") DIAMETER CORE HOLE WITH TWO-COMPONENT EPOXY CONFORMING TO APPLICABLE PORTIONS OF ARTICLE 1025.01 (725.01) OF THE STANDARD SPECIFICATIONS.
- 7. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR <u>SURVEY MONUMENT COVER ASSEMBLY</u> WHICH PRICE SHALL INCLUDE ALL LABOR AND MATERIAL AS SPECIFIED INCLUDING CORING THE NEW PAYEMENT SURFACE AND EPOXY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- 8. THE 200 mm (8") DIAMETER CORE HOLE SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.

BILL OF MATERIAL

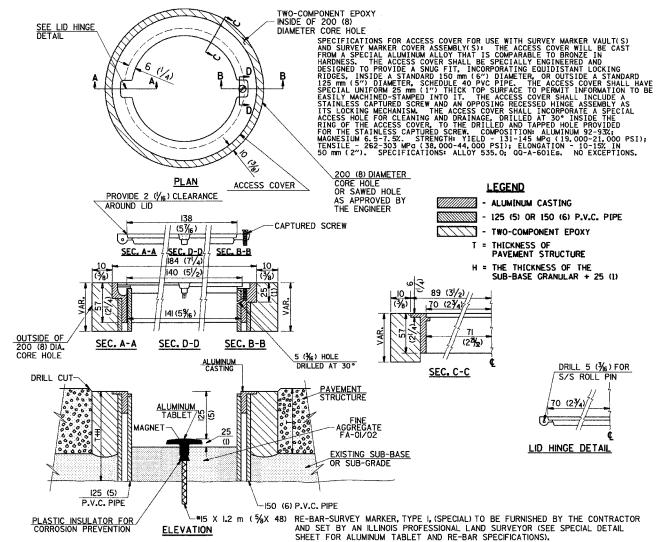
ALUMINUM CASTING OF THE DIMENSIONS AND SPECIFICATIONS SHOWN OR OTHER SUBJECT TO ENGINEER'S APPROVAL OF SHOP DRAWINGS, 4 EACH - M8 X 50 (% " X 2") BOLTS WITH NUTS, EPOXY, 125 mm OR 150 mm (5" OR 6") Ø P.V.C. PIPE, SCHEDULE 40 (WHEN REQUIRED).

## **DETAIL OF SURVEY MARKER VAULT**

SECTION COUNTY SHEETS 6998 99-00209-01-PV VERMILION 296 88 STA. N/A TO STA. N/A FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT-

CONTRACT NO.: 91358

FOR RESET LAND SURVEY MONUMENTS IN RIGID AND COMPOSITE PAVEMENTS



## **GENERAL** NOTES

- ALUMINUM CASTING SHALL BE EITHER PLACED OVER A 125 mm (5") P.V.C. PIPE OR INSIDE OF A 150 mm (6") P.V.C. PIPE.
- 2. BACKFILL WITH FINE AGGREGATE-FA-01/02,
- WORK SHALL NOT START ON THIS ITEM UNTIL THE FINAL LIFT OF CLASS I HAS BEEN COMPLETED.
- All dimensions are in millimeters (inches) unless otherwise shown.

- THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR <u>SURVEY MARKER VAULT</u> WHICH PRICE SHALL INCLUDE ALL LABOR AND MATERIAL AS SPECIFIED INCLUDING CORING, EPOXY AND FA-01/02
- AGGREGATE AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED. 6. THE CASTING SHALL BE ANCHORED IN THE 200 mm (8") DIAMETER CORE HOLE WITH TWO-COMPONENT EPOXY CONFORMING TO APPLICABLE PORTIONS OF ARTICLE 1025.01 (725.01) OF THE STANDARD SPECIFICATIONS.
- 7. ALL SURVEY MARKER (VAULTS) SHALL BE PLACED 6 mm ( $\frac{1}{4}$ ") $\pm$  BELOW THE FINAL SURFACE.
- THE 200 mm (8") DIAMETER CORE HOLE SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.

BILL OF MATERIAL ALUMINUM CASTING OF THE DIMENSIONS AND SPECIFICATIONS SHOWN OR OTHER SUBJECT TO ENGINEER'S APPROVAL OF SHOP DRAWINGS, 125 mm OR 150 mm (5" OR 6") Ø P.V.C. PIPE, SCHEDULE 40, ALUMINUM TABLET, STAMPED IN ACCORDANCE WITH STANDARD 2135. #15 X I.2 m (5% "X 48") RE-BAR, EPOXY AND FA-01/02 AGGREGATE.

REVISIO	NS	CITY OF DANVILLE, ILLINOIS					
NAME	E DATE		·				
		WINTER	AVENUE RECONSTRUCTION				
		IDOT DISTRICT 5					
			CADD DETAILS				
			0				
		SCALE: N/A	DATE: 12/21/06				
		DRAWN BY: SRS	CHECKED BY: MBF				