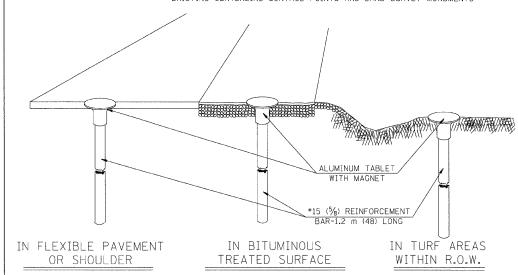
SURVEY MARKER, TYPE 1 (SPECIAL)

TO BE USED IN FLEXIBLE PAVEMENT AND SHOULDER, A-3 BITUMINOUS TREATED SURFACE OVER AGGREGATE BASE COURSE AND TURF AREAS WITHIN THE RIGHT-OF-WAY LIMITS FOR RESETTING EXISTING CENTERLINE CONTROL POINTS AND LAND SURVEY MONUMENTS



GENERAL NOTES

- 1. WORK ON THIS ITEM SHALL NOT START UNTIL THE FINAL SURFACE IS COMPLETED.
- 2. THE ALUMINUM TABLET (FORKED) SHALL REST UPON THE BOTTOM OF THE 100 mm (4") CORE HOLE. IF THE HOLE IS TOO DEEP, EPOXY GROUT MUST BE USED TO DECREASE THE DEPTH AND ALLOWED TO HARDEN BEFORE PROCEEDING.
- 3. THE ALUMINUM TABLET SHALL BE ANCHORED IN THE 100 mm (4") DIAMETER HOLE IN THE NEW PAVEMENT WITH TWO-COMPONENT EPOXY CONFORMING TO APPLICABLE PORTIONS OF ARTICLE 1025.01 (725.01) OF THE STANDARD SPECIFICATIONS.
- 4. THE 100 mm (4") CORE HOLE SHALL BE SUBJECT TO THE APPROVAL THE ENGINEER.
- 5. THE CONTRACT PRICE, EACH, FOR SURVEY MARKER, TYPE 2 (SPECIAL) SHALL BE PAYMENT IN FULL FOR FURNISHING THE ALUMINUM TABLET AND ALL LABOR AND MATERIAL TO SET THE MARKER IN PLACE, AS SPECIFIED, INCLUDING CORING THE NEW PAVEMENT.
- 6. ALL SURVEY MARKERS, TYPE 2 (SPECIAL) SHALL BE PLACED SHALL BE PLACED \pm 6 mm ($1/4^{\prime\prime}$) BELOW THE FINAL SURFACE.

$(3^{1}/_{4})$ ZORTMENT OF ERANS PORTATION MAGNET 0 18 (5/8) INSULATO SLEEVE

DIMENSIONS SHOWN SHALL BE EXACT, OTHERS MAY VARY, BUT SHALL BE SHOWN ON SHOP DRAWINGS.

- THE CONTRACT UNIT PRICE, EACH, FOR SURVEY MARKER, TYPE I, (SPECIAL) SHALL BE PAYMENT IN FULL FOR FURNISHING THE SURVEY MARKER.
- 2. ALL SURVEY MARKERS, TYPE 1 (SPECIAL) SHALL BE PLACED \pm 6 mm ($\frac{1}{4}$) BELOW THE FINAL SURFACE.
- 3. WHEN THE TABLET AND REBAR ARE PLACED AS PART OF A SURVEY MARKER VAULT, THEY SHALL BE CONSIDERED AS INCLUDED IN THAT PAY ITEM AND THERE WILL BE NO PAYMENT FOR THE SURVEY MARKER, TYPE 1 (SPECIAL).

	NAME	DATE	
DESIGNED	AWH	8/17/91	
CHECKED	PEK	8/17/91	
CADD NO.	D-1.05		

REVISIONS	
NAME	DATE
G.A.M.	11-95
D.L.P.	10-96

SPECIFICATIONS FOR ALUMINUM TABLET

SURVEY CAP FOR REBAR. 83 mm (31/4") CONVEX SURVEY CAP FOR 15 mm (5/4") REBAR WITH ILLINOIS DEPARTMENT OF TRANSPORTATION LOGO. THIS LOGO SHALL PROVIDE LETTERS RECESSED INTO THE SURFACE A MINIMUM OF 0.8 mm (1/2") FOR EASY AND LONG-TERM LEGIBILITY. THE ALUMINUM CAP FOR REBAR SHALL BE PRODUCED BY THE PROCESS OF ORBITAL FORGING TO PRODUCE A HIGH-STRENGTH AND DURABLE MARKER CAP WHICH WILL NOT CHIP OR BREAK AND PROVIDE A SMOOTH FINISH FOR STAMPING OF DATA IN THE FIELD. THE ALUMINUM CAP FOR REBAR SHALL BE TAPERED FOR A PERFECT COMPRESSION FIT. A SPECIAL PLASTIC INSULATOR SHALL BE INSTALLED TO PREVENT DISSIMILAR METAL CONTACT AND CORROSION. THE PLASTIC INSULATOR SHALL FORM READILY TO THE OUTER SHAPE OF THE REBAR AND TO THE INNER SHAPE OF THE REBAR AND TO THE INNER SHAPE OF THE REBAR AND TO THE JUNER SHAPE OF THE ALUMINUM CAP SOCKET. THE PLASTIC INSULATOR SHALL BE LOW DENSITY POLYETYLENE, A MINIMUM 38 mm (1/2") LONG AND CONFORM TO FEDERAL SPECIFICATION L-P 390.

COMPOSITION: ALUMINUM 98.3-98.7%; OTHER 1.3-1.7%; STRENGTH: YIELD 193 MPa (28 KSI), ULTIMATE 221 MPa (32 KSI), ELONGATION 15% [IN 50 mm (2")]. SPECIFICATIONS: ALUMINUM ALLOY 610-10; ASTM B317-83 (EXCEPT TEMPER) AS FORGED. NO EXCEPTIONS.

SPECIFICATION FOR REBAR

REBAR FOR ALUMINUM TABLET. REINFORCEMENT BAR SHALL BE *15 $(\frac{9}{8})''$ X 1.2 m (48") (DEFORMED).

INSPECTION OF REINFORCEMENT BAR *15 $(\frac{5}{9}'')$ SHALL BE DONE BY DISTRICT PERSONNEL OF THE ILLINOIS DEPARTMENT OF HIGHWAYS, DIVISION OF HIGHWAYS.

All dimensions are in millimeters (inches)

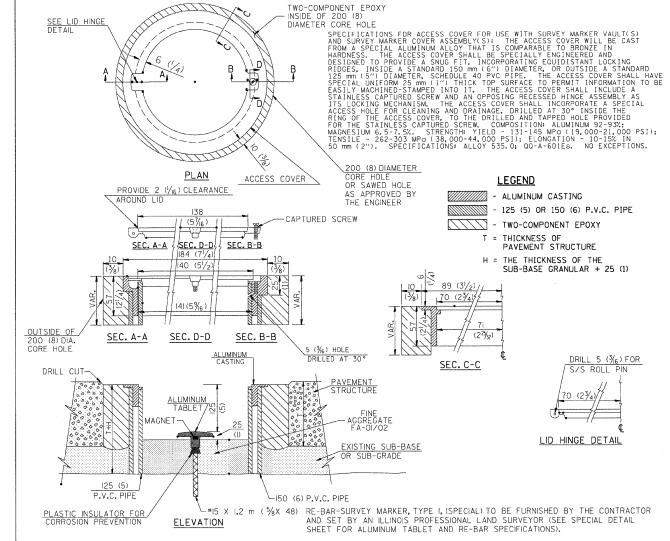
DETAIL OF SURVEY MARKER VAULT

FOR RESET LAND SURVEY MONUMENTS IN RIGID AND COMPOSITE PAVEMENTS

SECTION STA. TO STA.

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GENERAL

- 1. 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,
- 3. 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.

- NOTES 5. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR SURVEY MARKER VAULT 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 $(\frac{1}{4})$ BELOW THE FINAL SURFACE.
- 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, 125 mm OR 150 mm (5" OR 6") Ø P.V.C. PIPE, SCHEDULE 40, ALUMINUN TABLET, STAMPED IN ACCORDANCE WITH STANDARD 2135. #15 X I.2 m ($\frac{5}{8}$ "X 48") RE-BAR, EPOXY AND FA-OI/O2 AGGREGATE.

REVISIONS	ILLINOIS DEPARTMENT OF TRANSPORTATION	
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	SURVEY MARKE FAS 6	
	SEC NO. 99-0	0124-03-PV
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	COLES COUNT	ſ, ILLINOIS
	SCALE: NOT TO SCALE	DRAWN BY DJ

DATE 03\30\2009

AWN BY DJF CHECKED BY SKM