

	CONTRACT NO. 90758 F.A.I. SECTION COUNTY SHEETS NO. RTE. SECTION COUNTY SHEETS NO.
	TEL SECTION COUNT SHEETS NO. 57 10-32HB-3,K CHAMPAIGN 352 192
RVEY MA	ARKER VAULT
	OMPOSITE PAVEMENT
	NUMENTS (SECTION
NT EPOXY (200)	SPECIFICATIONS FOR ACCESS COVER FOR USE WITH SURVEY MARKER VAULT(S)
RE HOLE	AND SURVEY MARKER COVER ASSEMBLY(S): THE ACCESS COVER WILL BE CAST
	FROM A SPECIAL ALUMINUM ALLOY THAT IS COMPARABLE TO BRONZE IN HARDNESS. THE ACCESS COVER SHALL BE SPECIALLY ENGINEERED AND
	DESIGNED TO PROVIDE A SNUG FIT, INCORPORATING EQUIDISTANT LOCKING
	RIDGES, INSIDE A STANDARD 6" (150 mm) DIAMETER, OR OUTSIDE A STANDARD 5" (125 mm) DIAMETER, SCHEDULE 40 PVC PIPE. THE ACCESS COVER SHALL HAVE
	SPECIAL UNIFORM 1" (25 mm) THICK TOP SURFACE TO PERMIT INFORMATION TO BE EASILY MACHINE-STAMPED INTO IT. THE ACCESS COVER SHALL INCLUDE A
DIAMETER	STAINLESS CAPTURED SCREW AND AN OPPOSING RECESSED HINGE ASSEMBLY AS
OLE	ITS LOCKING MECHANISM. THE ACCESS COVER SHALL INCORPORATE A SPECIAL ACCESS HOLE FOR CLEANING AND DRAINAGE, DRILLED AT 30° INSIDE THE
VED HOLE PROVED BY	RING OF THE ACCESS COVER, TO THE DRILLED AND TAPPED HOLE PROVIDED FOR THE STAINLESS CAPTURED SCREW. COMPOSITION: ALUMINUM 92-93%
GINEER	MAGNESIUM 6.5-7.5%. STRENGTH: YIELD - 19,000-21,000 PSI (131-145 MPa);
COVER	TENSILE - 38,000-44,000 PSI (262-303 MPo); ELONGATION - 10-15% IN 2" (50 mm). SPECIFICATIONS: ALLOY 535.0; 00-A-601Es. NO EXCEPTIONS.
	LEGEND
	- ALUMINUM CASTING
SCREW	- 5" (125) OR 6" (150) P.V.C. PIPE
	- TWO-COMPONENT EPOXY
	T = THICKNESS OF PAVEMENT STRUCTURE
	H = THE THICKNESS OF THE
	SUB-BASE GRANULAR + 1" (25)
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AR.	<u>38′′′</u> 3 ¹ ∕2′′′ (89) // _1
>	
(5) HOLE	
	₩
PAVEMENT	
STRUCTURE	
s	SECTION C-C
FINE AGGRE	EGATE
FA-01/02	
0	SUB-BASE DRILL 3/6" (5) FOR 23/4" (70)
OR SUB-G	

LID HINGE DETAIL

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RE-BAR-SURVEY MARKER, TYPE I, (SPECIAL) TO BE FURNISHED BY THE CONTRACTOR AND SET BY AN ILLINOIS PROFESSIONAL LAND SURVEYOR (SEE SPECIAL DETAIL SHEET FOR ALUMINUM TABLET AND RE-BAR SPECIFICATIONS).

GENERAL NOTES

- 5. THE CASTING SHALL BE ANCHORED IN THE 8" (200 mm) DIAMETER CORE HOLE WITH TWO-COMPONENT EPOXY CONFORMING TO APPLICABLE PORTIONS OF ARTICLE 1025.01 OF THE STANDARD SPECIFICATIONS.
 - 6. ALL SURVEY MARKER (VAULTS) SHALL BE PLACED 1/4" (6 mm) ± BELOW THE FINAL SURFACE.
 - 7. THE 8" (200 mm) 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. 5" OR 6" (125 mm OR 150 mm) DIAMETER P.V.C. PIPE, SCHEDULE 40, ALUMINUM TABLET, STAMPED IN ACCORDANCE WITH STANDARD 667101. 5%" X 48" (*15 X 1.2 m) RE-BAR, EPOXY AND FA-01/02 AGGREGATE.