

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	I29K	WINNEBAGO	585	265
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

**NOTES FOR CAST IRON STEPS**

- CAST IRON STEPS SHALL BE GRAY IRON CONFORMING TO THE STANDARD SPECIFICATIONS.
- STEPS SHALL BE EMBEDDED INTO THE WALL A MINIMUM OF 3 INCHES AND SHALL NOT EXTEND BEYOND THE OUTSIDE OF THE WALL.
- MINIMUM TYPE 1880-1 OF 1881.

**NOTES FOR TYPE 1 FRAMES, GRATES & COVERS**

- TYPE 1 FRAME & COVER TO BE NEENAH FOUNDRY COMPANY NO. 8-2533, TYPE "B" VENEER COVER OR APPROVED EQUAL.
- TYPE 1 FRAME & GRATE TO BE NEENAH FOUNDRY COMPANY NO. 8-2534, TYPE "C" GRATE OR APPROVED EQUAL.

**NOTES FOR MANHOLE TYPE 1 AND INLET TYPE D-1**

- COST OF MANHOLE, TYPE 1 TO INCLUDE TYPE 1 FRAME & COVER & STEPS.
- COST OF INLET, TYPE D-1 TO INCLUDE TYPE 1 FRAME & GRATE & STEPS.
- CONCRETE MASONRY UNIT SHALL BE A MINIMUM OF THE REQUIRED RIBS.
- MANHOLE, TYPE 1 SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DRAWING SD 04-6A, SHEET 2 OF 2.

**ALTERNATE MATERIALS FOR WALLS**

D	C	MIN. T
CONCRETE MASONRY UNITS	4'-0"	3'-0"
PRECAST REINFORCED CONCRETE	4'-0"	3'-0"
MONOLITHIC CONCRETE	3'-0"	3'-0"

**TABLE E**

D	T	D <sub>0</sub>	Reinforcement	OR BAR SIZE	NO. 4 BAR C LENGTH/RADIUS
36"	4'-0"	7"	.20 sq. inch/ft.	No. 4	4'-0" 19"
4'-0"	5'-0"	7"	.35 sq. inch/ft.	No. 5	4'-6" 26"
5'-0"	5'-0"	9"	.35 sq. inch/ft.	No. 5	5'-0" 32"

**NOTES**

- ALL FRAMES, GRATES AND COVERS SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATION FOR GRAY IRON CASTINGS, OR FOR DUCTILE IRON CASTINGS.
- THE CONTRACT UNIT PRICE FOR EACH FOR MANHOLE, TYPE 1 AND INLET OF THE TYPE SPECIFIED SHALL INCLUDE ALL EXCAVATION, BACKFILL, CONCRETE, REINFORCEMENT, FRAMES, GRATES AND INCIDENTALS REQUIRED FOR CONSTRUCTION.
- PRECAST CONCRETE UNITS FOR MANHOLE, TYPE 1 AND INLET OF THE TYPE SPECIFIED, WILL BE ACCEPTABLE PROVIDED THEY MEET ALL THE REQUIREMENTS SHOWN ON THIS DRAWING. BASE EXTENSION OF 8" NOT REQUIRED FOR PRECAST UNITS. FABRICATION DRAWING SHOWING PIPE OPENINGS, REINFORCEMENT AND OTHER PERTINENT DIMENSIONS WILL BE REQUIRED FOR EACH UNIT.
- STEPS WILL NOT BE REQUIRED WHEN THE OFFSET, MEASURED FROM THE TOP OF THE FRAME TO THE INVERT, EXCEEDS 10'-0".
- THE FLAT SLAB TOP MAY BE USED IN LIEU OF OFFSET CONES AT THE OPTION OF THE CONTRACTOR OR WHEN FIELD CONDITIONS PROHIBIT THE USE OF TAPERED TOPS.

**NOTES FOR PAVED DITCH**

- PAVED DITCH SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR DITCH AND CHANNEL PAVING.
- ALL EXCAVATION, BACKFILL, WELDED WIRE FABRIC AND MISCELLANEOUS WORK REQUIRED FOR CONSTRUCTION OF PAVED DITCH SHALL BE INCIDENTAL TO DITCH AND CHANNEL PAVING.

**NOTES FOR EMBANKMENT DITCHES**

- WIDTH AND SLOPE MAY VARY DEPENDING ON SOIL CONDITION OR 4.0% REQUIREMENTS. THESE SECTIONS APPLY TO A CLEARANCE SECTION FOR NEW CONSTRUCTION, HOWEVER, THE WIDTH AND SLOPE MAY VARY DEPENDING ON SOIL CONDITION OR 4.0% CONSTRAINTS.

**NOTES FOR GRADED DITCH CHECK**

ALL EXCAVATION, BACKFILL STABILIZATION & COMPACTION AND MISCELLANEOUS WORK REQUIRED FOR CONSTRUCTION OF GRADED DITCH CHECK SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE PROVISIONS OF SECTION 202 OF THE STANDARD SPECIFICATIONS AND SHALL BE INCIDENTAL TO EMBANKMENT 20% R.

**NOTES**

- JOINT CONFIGURATION AND DIMENSIONS OF FLAT SLAB TOP SHALL WATCH AND FIT THE RISER JOINT DETAIL.
- LIFTING DEVICES SHALL BE APPROVED BY THE ENGINEER.
- BOTTOM SLABS SHALL BE REINFORCED WITH A MINIMUM OF 6# 8" SQ. IN/FT. IN BOTH DIRECTIONS.
- SEE STANDARD DRAWING SD 04-6A (SHEET 1 OF 2) FOR DETAILS OF CAST IRON STEPS.
- CLASS SP CONCRETE SHALL BE USED THROUGHOUT.

**ALTERNATE BOTTOM SLABS**

**ALTERNATE JOINT CONFIGURATIONS**

**PLAN**

**SECTION B-B**

**TABLE E**

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5'-0"	5'-0"	9"	.35 sq. inch/ft.	No. 5	5'-0" 32"

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

ISTHA STANDARDS

SCALE: VERT. N/A  
HORIZ. N/A  
DATE: SEPTEMBER 14, 2005

DRAWN BY: KRL  
CHECKED BY: PDS