

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS
5352	04-00168-00-RS	DEKALB	67
DETAILS			
FED. ROAD DIST. NO. 5 ILLINOIS FED. AID PROJECT			

THE CONE OF THE VALVE VAULT SHALL BE CONSTRUCTED AS SHOWN ABOVE ONLY WHEN THERE IS INTERFERENCE WITH UNDERGROUND CONDITIONS AND THOSE CONDITIONS CANNOT BE ALTERED, OR WHEN THE OFFSET IS REQUIRED TO CENTER THE VALVE OPERATING NUT IN THE OPENING.

CAST-IN-PLACE CONCRETE CLASS X CONCRETE OR PRECAST REINFORCED CONCRETE SLAB.

PRECAST REINFORCED CONCRETE SLAB, WHEN THE PRECAST REINFORCED CONCRETE SECTION ALTERNATE IS USED, A SUMP HOLE IS REQUIRED FOR ALL ALTERNATIVES.

VALVE VAULT SIZING

ALTERNATE MATERIALS FOR WALLS	D	C	I MIN.
CONCRETE	4'-0"	2'-6"	5'
MASONRY UNITS	5'-0"	3'-9"	5'
CAST-IN-PLACE CONCRETE	4'-0"	2'-6"	6'
PRECAST REINFORCED CONCRETE SECTIONS	4'-0"	2'-6"	4'

DIA. OF WATER MAIN	DIA.
6 INCHES AND UNDER	4'-0"
8 INCHES TO 14 INCHES	5'-0"
16 INCHES AND OVER	6'-0"

DIA. OF WATER MAIN FOR WET TAPS	DIA.
8 INCHES AND UNDER	5'-0"
10 INCHES AND OVER	6'-0"

NOTES:  
 THE VALVE VAULT SHALL BE CONSTRUCTED SO AS TO CENTER THE VALVE OPERATING NUT UNDER THE VAULT OPENING.  
 DIMENSION "C" FOR PRECAST REINFORCED CONCRETE SECTIONS MAY VARY FROM THE DIMENSION GIVEN TO PLUS 6 INCHES.  
 FOR OPTIONAL PRECAST REINFORCED CONCRETE FLAT TOP SLAB, REFER TO STANDARD 403.  
 WHERE THE WATERMAIN PASSED THROUGH THE VAULT WALL, THE WATERMAIN SHALL BE WRAPPED WITH A DOUBLE THICKNESS OF #15 ROOFING FELT.

STANDARD DETAIL FOR VALVE VAULTS, TYPE A	REVISIONS RBR 1/15/04	CITY OF DEKALB WATER MAIN STANDARD WM-303
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NO EXPANSION JOINTS ALLOWED OVER TRENCH

TYPICAL PLACEMENT IN CURB & GUTTER SECTION

2 - NO. 4 REINFORCING BARS

TYPICAL PLACEMENT IN SIDEWALK SECTION

3 - NO. 4 REINFORCING BARS

TYPICAL BAR LENGTH REQUIREMENTS OVER TRENCH

COMPACTED GRANULAR MATERIAL

PREVIOUSLY BACKFILLED TRENCH OR EXCAVATION COMPACTED TO 95% OF STANDARD LABORATORY DENSITY

STANDARD DETAIL FOR REINFORCING CURB & GUTTER OR SIDEWALK INSTALLED OVER A TRENCH	REVISIONS 01/03/01 CEW	CITY OF DEKALB STREET STANDARD ST-103
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STANDARD DESIGN FRAME AND GRATE TYPE 11

SECTION A-A

SECTION B-B

SECTION C-C

CAST GRATE TYPE R

HEAVY DUTY TOTAL WEIGHT: 485 LBS. MANUFACTURER OR EQUAL: NEENAH R-3281-A FOR DRIVEWAY/CROSSWALK APPLICATIONS, USE NEENAH R-3246-1 CURB PLATE

THE CAST GRATE MAY BE MADE OF EITHER GRAY IRON OR DUCTILE IRON CONFORMING TO THE STANDARD SPECIFICATIONS. DUCTILE IRON CASTING SHALL BE GRADE 65-45-12

DIAGONAL BAR GRATE IS REVERSIBLE FOR RIGHT OR LEFT HAND FLOW

STANDARD DETAIL FOR BARRIER CURB FRAME AND GRATE (STATE TYPE 11)	REVISIONS 2/13/04 RBR	CITY OF DEKALB STORM SEWER STANDARD SS-206
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open graded backfill

NONWOVEN FABRIC

The height of the box may be constructed 6" short to allow for field adjustments.

The wall adjustments shall be made with square adjustment rings of the same dimensions of the structure.

The inlet shall be cast in place or precast.

The top of the structure shall be wrapped with a continuous nonwoven fabric made up of polypropylene fibers (MS 4420). The fabric shall overlap the lip of the frame by 6" and extend downward 30" below the bottom of the frame.

Class SI concrete or precast concrete shall be used throughout.

The side walls may be built as precast segmented sections.

The only bedding and backfill material that will be allowed is 3/4" or 1" chips or washed concrete stone. The structure shall be backfilled to the height of 2" below the bottom of the casting flange.

All voids around the pipe entrance shall be sealed with mortar on both inside and outside.

Except as noted herein, inlet special shall be constructed in accordance with section 682 of the standard specifications existing articles 682.05 and 682.06.

Steps shall be omitted when the depth of the inlet is less than 5 ft.

Holes shall be made for underdrains and/or sump lines per plan locations during precast process.

STANDARD DETAIL FOR CATCH BASIN SPECIAL	REVISIONS 01-02-01 CEW	CITY OF DEKALB STORM SEWER STANDARD SS-203
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FACE PUMPER CONNECTION TOWARD STREET

BREAK FLANGE

NOT GREATER THAN 2"

GRADE

TYLER 6850 TWO PIECE C.I. BOX

6" MECH. JOINT VALVE MUELLER RESILIENT SEAT

MECH. JOINTS RETAINER GLANDS

DEPTH OF COVER 5'-8" MIN.

DEKALB HYDRANT UNIT IS #42 MUELLER SUPER CENTURION 200 HYDRANT OR WATEROUS W67-200, 6" TRENCH DEPTH, 5" M.I. SHOE, 1 1/2" PENTAGON OPERATING NUT, OPEN LEFT, (1) 4" NST PUMPER NOZZLE, (2) 2 1/2" NST HOSE NOZZLES, PAINTED RED, NO ALTERATIONS ALLOWED

THE CONTRACT UNIT PRICE FOR "HYDRANTS" SHALL INCLUDE THE AUXILIARY VALVE AND VALVE BOX AS SPECIFIED.

STANDARD DETAIL FOR FIRE HYDRANT WITH AUXILIARY VALVE & ADJUSTABLE C.I. BOX (WITH CAST IRON PIPE NIPPLE)	REVISIONS RBR 1/15/04	CITY OF DEKALB WATER MAIN STANDARD WM-309
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TYPICAL DRIVEWAY PLAN:

TYPICAL SECTION SIDEWALK DETAILS:

NOTE: AT ALL LOCATIONS WHERE THE SIDEWALK ADJUTS CURB AND GUTTER SECTIONS, THE SIDEWALK SHALL BE POURED FULL CURB & GUTTER DEPTH FOR A MINIMUM 12" WIDTH.

1/2" DIA. x 2'-0" LONG - SMOOTH STEEL SPOT COATED DOME BASE. ASTM SPECIFICATION #4-H REQUIRED AT EXP. JOINTS AND SHALL BE HELD IN PLACE WITH TIE BAR CHAIRS - 2 PER JOINT.

THE CONTRACT UNIT PRICE FOR P.C.C. SIDEWALK 5" AND 7" SHALL INCLUDE THE DOME BARS, EXPANSION JOINTS, TOOLED JOINTS AND BASE MATERIAL AS SPECIFIED

STANDARD DETAIL FOR P.C.C. SIDEWALK, 5" & 7"	REVISIONS 04/06/00 RBR	CITY OF DEKALB STREET STANDARD ST-105
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STANDARD DETAIL FOR SHALLOW STORM SEWER TRENCH PREPARATION

REVISIONS

CITY OF DEKALB STORM SEWER STANDARD SS-204

STANDARD DETAIL FOR SHALLOW STORM SEWER TRENCH PREPARATION	REVISIONS	CITY OF DEKALB STORM SEWER STANDARD SS-204
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open graded backfill

NONWOVEN FABRIC

The height of the box may be constructed 6" short to allow for field adjustments.

The wall adjustments shall be made with square adjustment rings of the same dimensions of the structure.

The inlet shall be cast in place or precast.

The top of the structure shall be wrapped with a continuous nonwoven fabric made up of polypropylene fibers (MS 4420). The fabric shall overlap the lip of the frame by 6" and extend downward 30" below the bottom of the frame.

Class SI concrete or precast concrete shall be used throughout.

The side walls may be built as precast segmented sections.

The only bedding and backfill material that will be allowed is 3/4" or 1" chips or washed concrete stone. The structure shall be backfilled to the height of 2" below the bottom of the casting flange.

All voids around the pipe entrance shall be sealed with mortar on both inside and outside.

Except as noted herein, inlet special shall be constructed in accordance with section 682 of the standard specifications existing articles 682.05 and 682.06.

Steps shall be omitted when the depth of the inlet is less than 5 ft.

Holes shall be made for underdrains and/or sump lines per plan locations during precast process.

STANDARD DETAIL FOR INLET SPECIAL	REVISIONS 03/30/01 MCB	CITY OF DEKALB STORM SEWER STANDARD SS-208
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