

F.A.U. ROUTE	CONTRACT NO.	COUNTY	TOTAL SHEET
5348	87330	DEKALB	140
STATE SECTION	05-00160-00-WR		88
SPECIAL DETAILS			
F.H.W.A. REG 5 ILLINOIS PROJECT HT# 2086001			

TYPICAL PLACEMENT IN CURB & GUTTER SECTION

NO EXPANSION JOINTS ALLOWED OVER TRENCH

2 - NO. 4 REINFORCING BARS

TYPICAL PLACEMENT IN SIDEWALK SECTION

3 - NO. 4 REINFORCEMENT BARS

10' MIN

TRENCH

TYPICAL BAR LENGTH REQUIREMENTS OVER TRENCH

10' MIN

1/2"

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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TYPICAL DRIVEWAY PLAN:

8" OR AS SHOWN ON PLANS

DRIVEWAY WIDTH (VAR.)

TOOLED JOINTS AT 5'-0" D/C TOOLED AND EGED JOINT 1/2" DEEP

PROPERTY LINE

5" P.C.C. SIDEWALK

7" P.C.C. SIDEWALK

12"

12"

DOWEL BARS TO BE GREASED AND CAPPED ON ALTERNATE ENDS

4'-0" RES. BUS.

5'-0" BUS.

1/2" / FT CROSS SLOPE (OR AS DIRECTED)

EXPANSION JOINTS AT 100' MAX. O/C 3/4" PREFORMED EXP. JT. FILLER. EMBEDDED IN GRAVEL BASE MIN 1"

SAWCUT JOINTS WILL NOT BE PERMITTED

TYPICAL SECTION SIDEWALK DETAILS:

4'-0" RESIDENTIAL / 5'-0" BUSINESS/COMMERCIAL OR AS SHOWN ON PLANS

1/2" R. TOOLED EDGE

3'-0"

1/4" / FT. SLOPE

6"

6"

1/2" R. TOOLED EDGE

MINIMUM 5" 7" AT DRIVEWAYS

P.C.C. SIDEWALK

3" AGGREGATE BASE COURSE, TYPE B

3" MINIMUM

NOTE: AT ALL LOCATIONS WHERE THE SIDEWALK ABUTS 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 EPOXY COATED DOWEL BARS. ASTM SPECIFICATION A-15 REQUIRED AT EXP. JOINTS AND SHALL BE HELD IN PLACE WITH TIE BAR CHAINS -- 2 PER JOINT.

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

STANDARD DETAIL FOR P.C.C. SIDEWALK, 5" & 7"	REVISIONS 03/20/01 WBS	CITY OF DEKALB STREET STANDARD ST-105
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TYPE 2

O.D. + 18" MAX

12"

SELECT EARTHEN MATERIALS COMPACTED IN PLACE

BELL HOLE

TYPE 4

O.D. + 18" MAX

12"

BELL HOLE

SELECT EARTHEN MATERIALS COMPACTED IN PLACE

COMPACTED BEDDING MATERIAL

1/4" PIPE O.D. OR 4" WHICHEVER IS GREATER

TYPE 5

O.D. + 18" MAX

12"

SELECT EARTHEN MATERIALS COMPACTED IN PLACE

COMPACTED BEDDING MATERIAL 6" LIFTS

4" MIN

THE COST OF THE PIPE BEDDING SHALL BE INCIDENTAL TO CONSTRUCTION AND INCLUDED IN THE CONTRACT UNIT PRICE PER LINEAL FT. OF THE RESPECTIVE SIZE OF WATER MAIN. BEDDING TO BE USED SHALL BE AS SET FORTH IN THE SPECIAL PROVISIONS.

STANDARD DETAIL FOR WATER MAIN BEDDING	REVISIONS RBR 1/19/03	CITY OF DEKALB WATER MAIN STANDARD WM-300
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SOCKET CLAMPS

3/4" TIE BAR EACH SIDE, LENGTH TO FIT.

SOCKET CLAMPS

WASHER

CLAMP SIZE	T	D
PIPE SIZE		
4" TO 12"	1/2"	2"
16" TO 20"	3/4"	4"

SOCKET CLAMP

ALL COMPONENTS OF THE TIE BARS AND CLAMPS SHALL BE GALVANIZED OR OTHERWISE RUSTPROOFED AS APPROVED BY THE ENGINEER.

STANDARD DETAIL FOR TIE BARS AND CLAMPS	REVISIONS	CITY OF DEKALB WATER MAIN STANDARD WM-302
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2'-0"

2'-0"

TOP OF MASONRY

VARIABLE

CIRCULAR

C

GATE OR BUTTERFLY VALVE (MUELLER)

CONCRETE BLOCK PIER

6"

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 CLASS X CONCRETE OR PRECAST REINFORCED CONCRETE SLAB.

SAND CUSHION

6" MIN.

6"

3"

6"

3"

PREFABRICATED 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	T	MIN.
CONCRETE	4'-0"	2'-6"	5'	
MASONRY UNITS	5'-0"	3'-9"	6'	
CAST-IN-PLACE CONCRETE	4'-0"	2'-6"	6'	
PRECAST REINFORCED CONCRETE SECTIONS	4'-0"	2'-6"	4'	
	5'-0"	3'-9"	5'	

DIA. OF WATER MAIN	DIA.
8 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 IDOT STANDARD.
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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FACE PUMPER CONNECTION TOWARD STREET

18" - 24"

BREAK FLANGE

NOT GREATER THAN 2"

GRADE

DEPTH OF COVER 5'-6" MIN.

BUILDING PAPER

PROVIDE WASHED STONE MIN. 1/2" IN SIZE

MIN. PIPE NIPPLE

18"

6" MECH. JOINT VALVE MUELLER RESILIENT SEAT

MECH. JOINTS RETAINER GLANDS

CONCRETE BLOCKING

DEKALB HYDRANT UNIT IS A-42SMUELLER SUPER CENTURION 250 HYDRANT OR WATEROUS WBB7-250, 6" TRENCH DEPTH, 6" MJ SHOE, 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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PUBLIC ROW

R @ CENTER OF LOT

P.C.C. SIDEWALK

8"

CAST IRON SERVICE BOX MUELLER 6" H10300 (OR APPROVED EQUAL)

CLRB STOP MUELLER NO. H-15154, H15155, H26154, H26155 (OR APPROVED EQUAL)

5'-6" MIN.

3/4"-2" TYPE K SOFT COPPER TUBING

CONCRETE BLOCK (ONE PIECE, 8"x8"x2" MIN.)

COMPACTED BEDDING MATERIAL

45°

WATER MAIN AS SPECIFIED

CORPORATION STOP MUELLER H15000 or H15008 (3/4"-1") MUELLER H15000 or H15013 (1/2"-2") (OR APPROVED EQUAL)

STANDARD DETAIL FOR HOUSE WATER SERVICE	REVISIONS RBR 1/15/04	CITY OF DEKALB WATER MAIN STANDARD WM-310
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