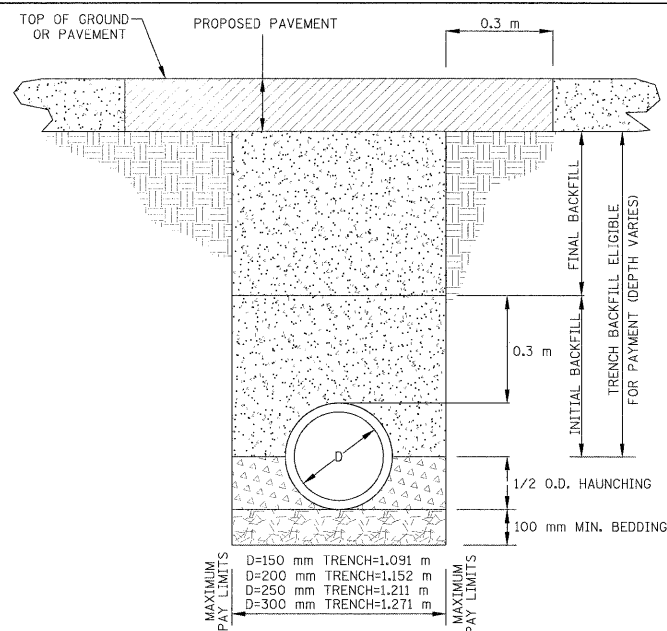
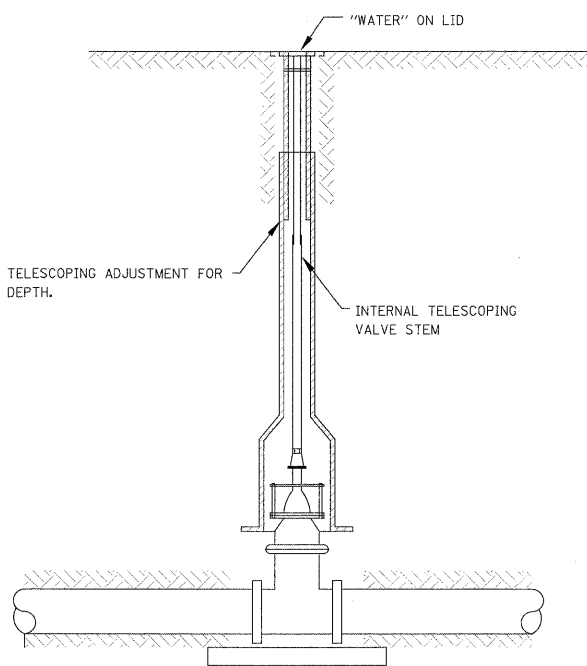


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(5CS,13C,108,109)R	KENDALL	931	484
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

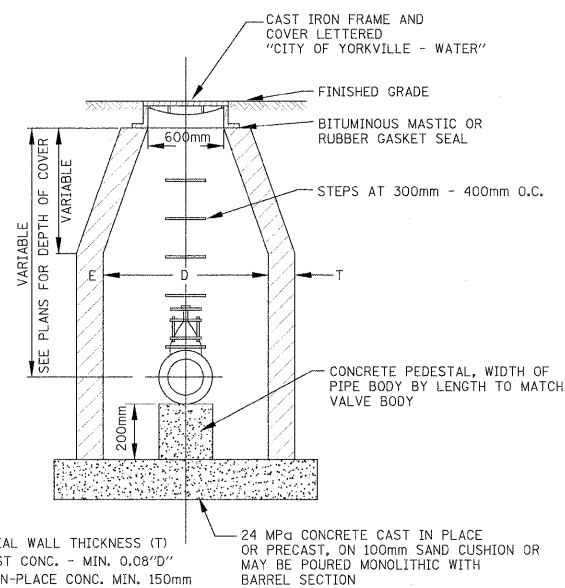


- NOTES:
- BEDDING AND HAUNCHING ARE REQUIRED FOR ALL SANITARY SEWER AND WATERMAIN. BEDDING AND HAUNCHING INCLUDED IN COST OF PIPE.
  - MAXIMUM TRENCH WIDTHS ARE LISTED FOR PAYMENT PURPOSES. MAX PAY LIMITS DECREASE BY 0.3 m IF SHORING IS NOT USED.
  - INITIAL BACKFILL TO 0.3 m ABOVE TOP OF PIPE REQUIRED FOR ALL SANITARY SEWER AND WATERMAIN.
  - FINAL BACKFILL TO BE CA-7 REQUIRED IN ALL LOCATIONS WHERE THE EDGE OF THE SANITARY SEWER OR WATERMAIN TRENCH IS LOCATED WITHIN 0.6 m OF A PERMANENT SURFACE EXCEPT TOP 0.3 m TO BE CA-6.
  - TYPICAL DEPTH OF COVER FOR WATERMAIN AND WATER SERVICE SHALL BE 1.67 m FROM FINISHED GRADE. REFER TO PLANS FOR LOCATIONS WHERE DEPTH OF COVER VARIES.

TRENCH DETAIL

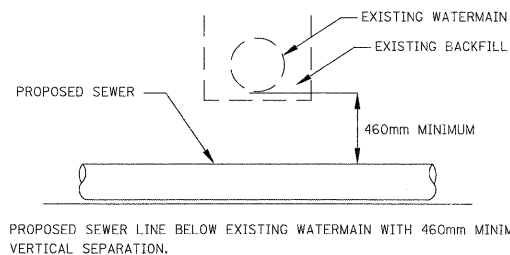


TYPICAL VALVE BOX INSTALLATION



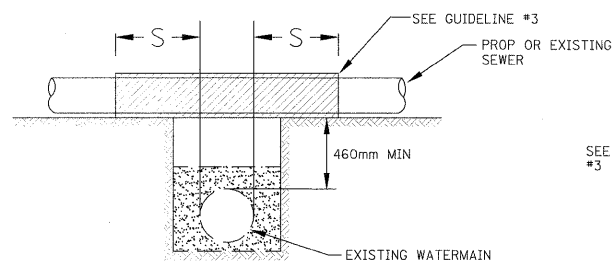
NOTE: VALVE VAULT DIA. SHALL BE 1.2m FOR 200mm AND SMALLER VALVES AND 1.5m FOR 250mm AND LARGER VALVES. D= DIAMETER OF MANHOLE

TYPICAL VALVE VAULT DETAIL



WATER AND SEWER SEPARATION REQUIREMENTS

(VERTICAL SEPARATION)

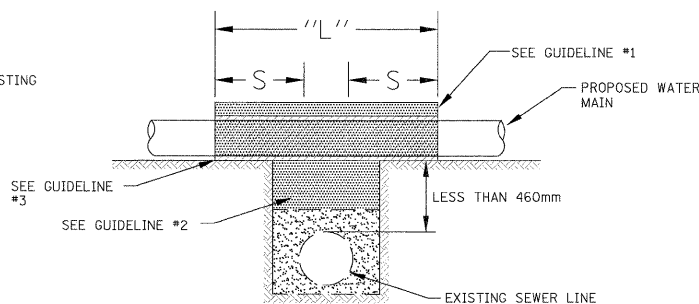


NOTE: "S" IS THE LENGTH NECESSARY TO PROVIDE 10 FEET OF SEPARATION AS MEASURED PERPENDICULAR TO THE PROPOSED STORM SEWER LINE.

GUIDELINES

- IF SELECT GRANULAR BACKFILL EXISTS: REMOVE WITHIN WIDTH OF PROPOSED SEWER TRENCH AND REPLACE WITH SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT
- OMIT SELECT GRANULAR EMBEDMENT AND GRANULAR BACKFILL TO 300 mm OVER TOP OF SEWER AND USE SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT THE LENGTH OF "L" METERS.
- A) CONSTRUCT "L" METERS OF PROPOSED SEWER OF WATER MAIN MATERIAL AND PRESSURE TEST, OR:  
B) USE "L" METERS OF WATER MAIN MATERIAL FOR CASING OF PROPOSED SEWER AND SEAL ENDS OF CASING.

SEWER OVER EXISTING WATER CROSSING

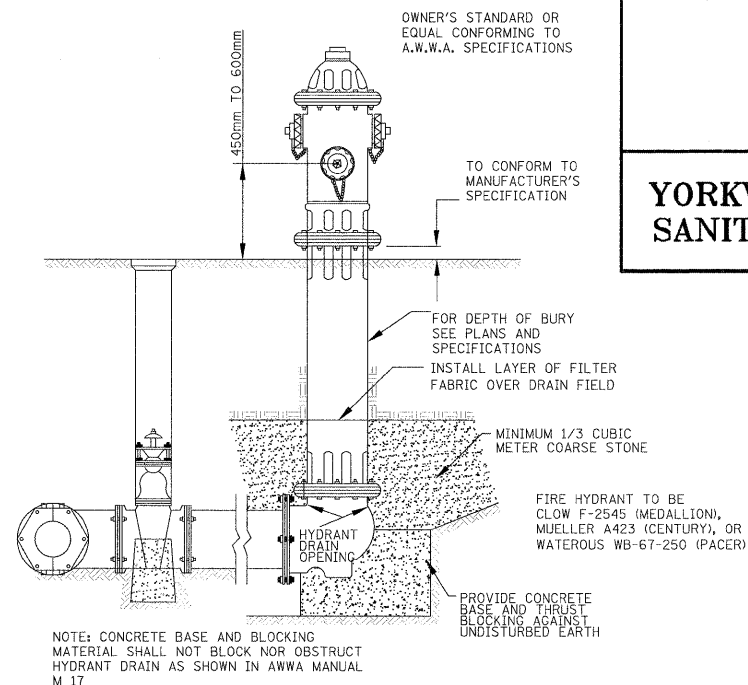


NOTE: "S" IS THE LENGTH NECESSARY TO PROVIDE 3.1 METERS OF SEPARATION AS MEASURED PERPENDICULAR TO THE PROPOSED STORM SEWER LINE.

GUIDELINES

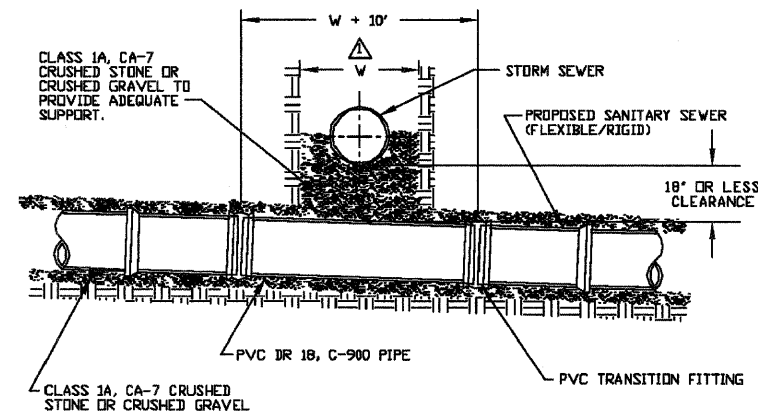
- OMIT SELECT GRANULAR EMBEDMENT AND GRANULAR BACKFILL TO 300mm OVER TOP OF WATERMAIN AND USE SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT THE LENGTH OF "L".
- IF SELECT GRANULAR BACKFILL EXISTS, REMOVE WITHIN WIDTH OF EXISTING SEWER LINE TRENCH AND REPLACE WITH SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT.
- USE "L" METERS OF WATERMAIN MATERIAL FOR CASING OF PROPOSED WATERMAIN AND SEAL ENDS OF CASING.
- POINT LOADS SHALL NOT BE ALLOWED BETWEEN WATERMAIN CASING AND SEWER

PROPOSED WATERMAIN CROSSING ABOVE EXISTING SEWER WITH LESS THAN 460mm SEPARATION



NOTE: CONCRETE BASE AND BLOCKING MATERIAL SHALL NOT BLOCK NOR OBSTRUCT HYDRANT DRAIN AS SHOWN IN AWWA MANUAL M 17

TYPICAL HYDRANT INSTALLATION



SECTION ELEVATION

NOTE: PVC DR 18, C-900 PIPE SHALL BE REQUIRED WHEN THE BOTTOM OF THE STORM SEWER IS WITHIN 18" OF THE TOP OF THE SANITARY SEWER. UNDER NO CIRCUMSTANCES SHALL THE STORM SEWER BE SUPPORTED BY THE SANITARY LINE

REFERENCE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS (FIFTH EDITION)

YORKVILLE-BRISTOL SANITARY DISTRICT

SANITARY SEWER AT STORM SEWER CROSSING

DESIGNED JWF	APPROVED PFM	SCALE NTS
DRAWN	DATE 10/9/06	STD-009

- Note:
- These details have been provided by the Yorkville-Bristol Sanitary District (note dimensions are english units). A copy of the Yorkville-Bristol Sanitary District specifications, which are to be used for construction of the sanitary sewer work are included in the Special Provisions.

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		WATER AND SANITARY SEWER DETAILS

DRAWN BY  
CHECKED BY  
DATE