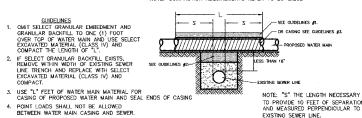


WATER AND SEWER SEPARATION REQUIREMENTS

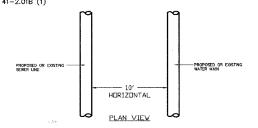
PROPOSED WATER MAIN ABOVE EXISTING SEWER LINE WITH LESS THAN 18" VERTICAL SEPARATION.

NOTE: COMPACTION REQUIREMENTS REFER TO 20-2.20B

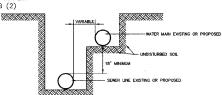


WATER AND SEWER SEPARATION REQUIREMENTS

WHEN PROPOSED SEWER (OR WATER) IS LOCATED 10 FEET OR MORE FROM EXISTING WATER (OR SEWER), NO SPECIAL CONSTRUCTION REQUIRED. SEE SECTION 41-2.018 (1)



WHEN PROPOSED SEWER (OR WATER) IS LOCATED LESS THAN 10 FEET FROM EXISTING WATER (OR SEWER), DETAILS BELOW SHALL APPLY. SEE SECTION 41-2.01B (2)



WATER AND SEWER SEPARATION REQUIREMENTS

PROPOSED SEWER LINE WITH 18"MINIMUM VERTICAL SEPARATION ABOVE EXISTING WATER MAIN.

NOTE: COMPACTION REQUIREMENTS REFER TO 20-2.20B

QUIDELINES

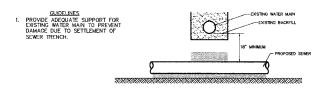
IF SELECT GRANULAR BACKFILL EXISTS, REMOVE
WITHIN WIDTH OF PROPOSED SEWER TRENCH AND
REPLACE WITH SELECT EXCAVATED MATERIAL
(CLASS IV) AND COMPACT. OMIT SELECT GRANULAR EMBEDMENT AND GRANULAR BACKFILL TO ONE (1) FOOT OVER TOP OF SEWER AND USE SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT THE LENGTH OF "L" FEET. 3a. CONSTRUCT "L" FEET OF PROPOSED SEWER OF WATER MAIN MATERIAL AND PRESSURE TEST, OR; b. USE "L" FEET OF WATER MAIN MATERIAL FOR CASING OF PROPOSED SEWER AND SEAL ENDS OF CASING.

NOTE: "S" THE LENGTH NECESSARY TO PROVIDE 10 FEET OF SEPARATION AND MEASURED PERPENDICULAR TO

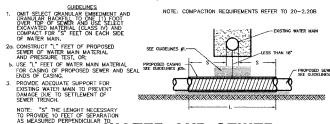
EXISTING SEWER LINE.

WATER AND SEWER SEPARATION REQUIREMENTS

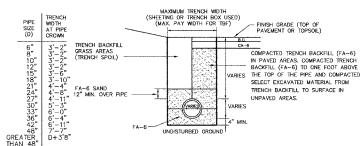
PROPOSED SEWER LINE BELOW EXISTING WATER MAIN WITH 18" MINIMUM VERTICAL SEPARATION



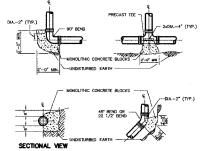
PROPOSED SEWER LINE BELOW EXISTING WATER MAIN WITH LESS THAN 18" VERTICAL SEPARATION



WATER AND SEWER SEPARATION REQUIREMENTS



WATERMAIN TRENCH DETAIL

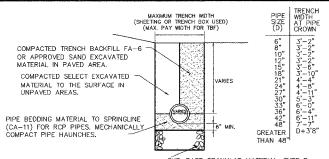


BLOCKING SHALL BE APPLIED FOR ALL TEES, PLUGS, CAPS, & 22 1/2" OR MORE BENDS.

THRUST BLOCKS TO BE CLASS "X" CONCRETE. 3. BEARING AREAS OF UNDISTURBED EARTH SHALL HAVE A MINIMUM ALLOWABLE BEARING CAPACITY OF 2000 P.S.F.

BEARING AREA OF SOIL BASED ON 65 P.S.I. WATERMAIN PRESSURE.

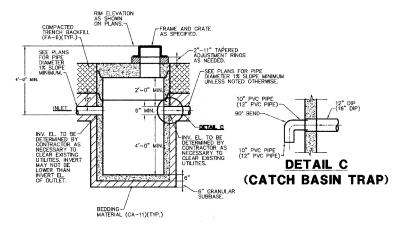
THRUST BLOCKING



SUB-BASE GRANULAR MATERIAL, TYPE B WHERE BEDDING MATERIAL IS FOUND TO BE UNSUITABLE. (WRAP GRANULAR MATERIAL WITH GEO-TEXTILE CONFORMING TO ARTICLE 1080.02, INCIDENTAL TO SUB-BASE GRANULAR MATERIAL, TYPE B)

EXISTING SEWER

STORM TRENCH DETAIL



ILLINOIS CONTRACT NUMBER 83968 PLAN SECTION B-B 2'-0" BENCH/FLOW LINE TO BE PRECAST WITH MANHOLE BASE, PREFORMED OPENINGS SHALL BE PROVIDED FOR MAINLINE PIPE. CLASS X CONCRETE-

SECTION

TOTAL

COUNTY

06-00241-00-PV COOK 115

STORM SEWER RELIEF DETAILS

SHEET.

50

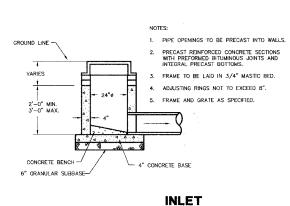
- ALL MANHOLE BASES SHALL BE FURNISHED WITH FLEXIBLE SLEEVES PER A.S.T.M. C-923 FOR CONNECTION OF MAINLINE PIPE.
- 2. MANHOLE TYPE "A" TO BE PROVIDED WITH FRAME AND CLOSED LID.
- EXTERIOR NEOPRENE CHIMNEY SEAL REQUIRED ON ALL MANHOLE RIMS.

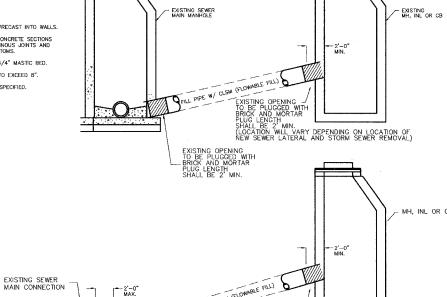
*** FOR OPTIONAL PRECAST CONCRETE FLAT SLAB TOP REFER TO IDOT STANDARD 602406

DETAIL OF MANHOLE TYPE A

(4 FT. AND 5 FT. DIAMETER)

DETAIL OF CATCH BASIN TYPE A (PRECAST)





PLUG LENGIH SHALL BE 2' MIN. (LOCATION WILL VARY DEPENDING ON LOCATION OF NEW SEWER LATERAL AND STORM SEWER REMOVAL) -CUT AND CAP SEWER LATERAL WITH WATER TIGHT PLUG AT BOTH ENDS

PLUG AND ABANDON EXISTING PIPE

(MANHOLE, INLET OR CATCH BASIN)

GEWALT HAMILTON ASSOCIATES, INC. CONSULTING ENGINEERS & SURVEYORS
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DETAIL SHEET

RIDGE AVENUE RELIEF SEWER IMPROVEMENTS **EVANSTON, ILLINOIS**

- 1		BY	DATE	-ive-www.vow-	w	RY	DATE	PENISONI	DATE		of 115 sheet
	Tr	SM	5-18-07	FIRST SUBMITTAL					CHECKED BY: SDB		
1:	2	KD	7-27-07	PER IDOT COMMENTS ON 7/24/07						N.A.	30
٦.	5 5	SDB	8-28-07	PER IDOT COMMENTS					DRAWN BY: GW3	SCALE	50
								l		agus.	
L	1	_							FILE: 3566-CONTRACT-D	PROJ.# 3566.100	SHEET NUMBER: