

NOTE: COMPACTION REQUIREMENTS REFER TO 20-2.20B

GUIDELINES

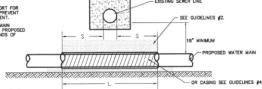
GRANULAR EMBEDMENT AND
GRANULAR BACKFILL TO ONE (1) FOOT
OVER TOP OF WATER MAIN AND USE SELECT
EXCAVATED MATERIA (CLASS IV) AND
COMPACT THE LENGTH OF "L".

NOTE: "S" THE LENGTH NECESSA TO PROVIDE 10 FEET OF SEPARA AND MEASURED PERPENDICULAR EXISTING SEWER LINE.

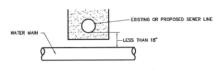
 IF SELECT GRANULAR BACKFILL EXISTS, REMOVE WITHIN WIDTH OF EXISTING SEWER LINE TRENCH AND REPLACE WITH SELECT EXCAVATED MATERIAL (CLASS IV) AND

 PROMDE ADEQUATE SUPPORT FOR EXISTING SEWER LINE TO PREVENT DAMAGE DUE TO SETTLEMENT.

 USE "L" FEET OF WATER MAIN MATERIAL FOR CASING OF PROPO



PLACEMENT OF WATER MAIN **BELOW EXISTING** OR PROPOSED SEWER LINE **WITH LESS** THAN 18" MINIMUM VERTICAL SEPARATION. **NOT ALLOWED***



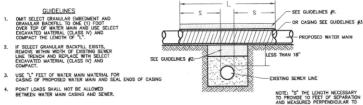
NOT ALLOWED*

MUST MAINTAIN 18" VERTICAL SEPARATION

WATER AND SEWER SEPARATION REQUIREMENTS

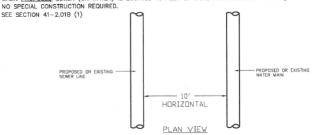
PROPOSED WATER MAIN ABOVE EXISTING SEWER LINE WITH LESS THAN 18" VERTICAL SEPARATION.

NOTE: COMPACTION REQUIREMENTS REFER TO 20-2.208



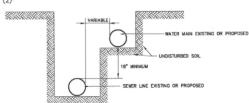
WATER AND SEWER SEPARATION REQUIREMENTS

WHEN PROPOSED SEWER (OR WATER) IS LOCATED 10 FEET OR MORE FROM EXISTING WATER (OR SEWER), NO SPECIAL CONSTRUCTION REQUIRED.



WHEN <u>PROPOSED</u> SEWER (OR WATER) IS LOCATED <u>LESS THAN 10 FEET</u> FROM EXISTING WATER (OR SEWER), DETAILS BELOW SHALL APPLY.

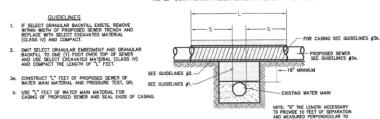
SEE SECTION 41-2.018 (2)



WATER AND SEWER SEPARATION REQUIREMENTS

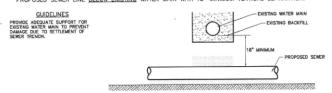
PROPOSED SEWER LINE <u>WITH</u> 18"MINIMUM VERTICAL SEPARATION <u>ABOVE</u> EXISTING WATER MAIN.

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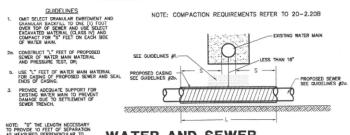


WATER AND SEWER SEPARATION REQUIREMENTS

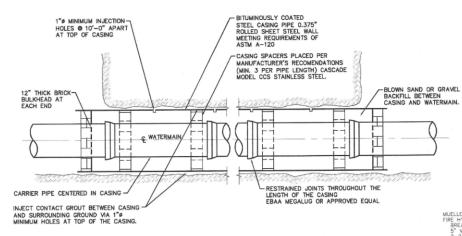
PROPOSED SEWER LINE BELOW EXISTING WATER MAIN WITH 18" MINIMUM VERTICAL SEPARATION.



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

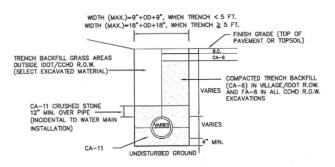


WATER AND SEWER SEPARATION REQUIREMENTS



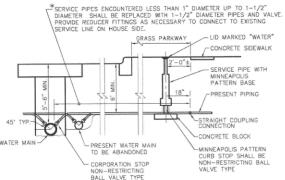
CASING PIPE INSTALLATION

NOT TO SCALE



WATERMAIN TRENCH

SCALE: N.T.S.



NOTES:

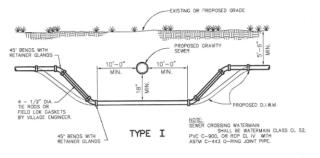
1. EXISTING SERVICE PIPES MAY BE OF VARYING SIZES AND MATERIALS. CONTRACTOR SHALL FURNISH SUITABLE CONNECTOR TO COPPER PIPE AND FITTINGS.

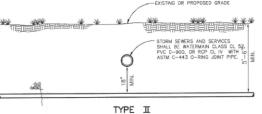
2. ALL CORP AND CURB STOPS SHALL BE FLARE TYPE CONNECTIONS.

3. THE EXISTING SERVICE BOX SHALL BE REMOVED AND THE NEW SERVICE BOX PLACED AS CLOSE AS POSSIBLE TO THE ORIGINAL LOCATION.

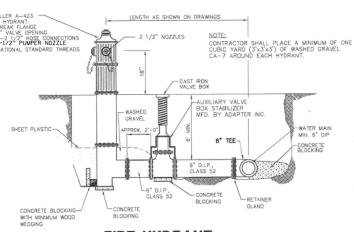
4. SERVICE TAP SHALL INCLUDE SMITH-BLAIR 3

TYPICAL WATER SERVICE CONNECTION





WATERMAIN CROSSING



FIRE HYDRANT

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

| | | | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEE NO. |
|--------------------|-----------------------------|---|------------------------------|----------|--------|-----------------|-------------|
| WATER MAIN DETAILS | | 305 | (1920.01,1518,2022&1922.4B)R | COOK | 919 | 230 | |
| | | | | CONTRACT | NO. 60 | T35 | |
| | SHEET NO. 230 OF 919 SHEETS | 230 OF 919 SHEETS FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | | | | | |

FILE NAME = USER NAME = BAWItort DESIGNED - JLV REVISED gr\chil\0158\road\Sheets\D160T35-SHT-WM STD-NDRTHFIELD.dgn DRAWN - KAL REVISED PLOT SCALE = 100.0000 '/ in. CHECKED - RCB REVISED PLOT DATE = 11/1/2012 DATE - 10/31/2012 RFVISED -