

UNDISTURBED EARTH-SECTION A-A (BEDDING SHALL BE PROVIDED AS REQUIRED BY CONTRACT PLANS AND D.I. BENDS SPECIFICATIONS)

-"WATER" ON LID

RETAINER GLANDS SHALL BE USED ON ALL FITTINGS. NO ADDITIONAL COMPENSATION ALLOWED.

-SCREW TYPE ADJUSTMENTS FOR DEPTH. IN PAVEMENT USE SLIDE TYPE ADJUSTMENTS

TYPICAL CONCRETE BLOCKING DETAIL

| AREA | OF BEARING | G FACE REQUIRED - | SQ. FT. |
|-----------|------------|-------------------|--------------|
| PIPE SIZE | 1/4 BEND | 1/8 OR 1/16 BEND | TEES & PLUGS |
| 4,6,8 | 3 | 3 | 3 |
| . 10 | 4 | 3 | 3 |
| 12 | 6 | 3 | 4 |
| 16 | 11 | 4 | 7 |
| 18 | 16 | 6 | 10 |
| 20 | 18 | 8 | 12 |

-MUELLER THREE WAY A-442 5 ½" BARREL. SET FIRE HYDRANT W/ BURY LINE AT GRADE - INSTALL BARREL EXTENSIONS AS NECESSARY (INCIDENTAL) -1/3 CU. YD. COARSE APPROVED GRANULAR MATERIAL -CLOW F1215 ANCHORING COUPLING OR F1216 ANCHORING PIPE OR APPROVED EQUAL PRECAST CONCRETE BLOCK HYDRANT DRAIN OPENINGS-

CLOW F1218 ELBOW-OR EQUAL M.J. TEE M.J. VALVE

HYDRANT CONNECTION TYPE 5

FITTING PIPE DIAMETER

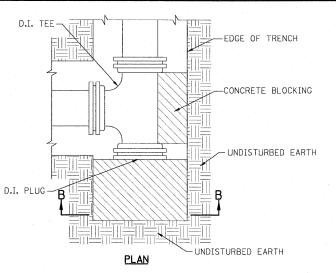
11 1/4° TO 45° ELBOW

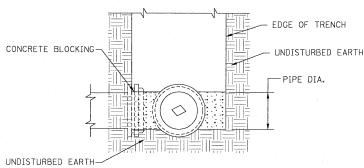
90° ELBOW VERTICAL OFFSET 11 1/4° TO 45°

TEE (BRANCH) RUN 10FT. EACH WAY

REDUCER

DEAD END



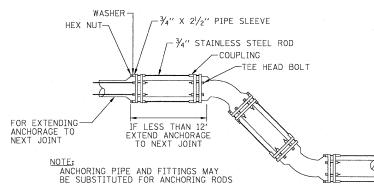


(BEDDING SHALL BE SECTION B-B PROVIDED AS REQUIRED BY CONTRACT PLANS AND D.I. TEE & PLUG SPECIFICATIONS)

RETAINER GLANDS SHALL BE USED ON ALL FITTINGS. NO ADDITIONAL COMPENSATION ALLOWED.

CURB BOX MUELLER H-10306-W/ EXTENSION ROD, W/ LID,
W/ BRASS PENTAGON CLUB
W/ COMPATIBLE MUELLER SLEEVE IF IN PAVEMENT -EXTENSION ROD CORPORATION STOP MUELLER H-15008 #12 COPPER TRACER-WIRE (CONNECT TO EXTENSION ROD) CAST BRONZE SERVICE-CLAMP (SADDLE) MUELLER H-13433 CURB STOP FOR MUELLER H-15219 -1" CTS POLYETHYLENE PIPE (SEE SPECIAL PROVISIONS FOR SERVICE PIPE MATERIAL) -WATER MAIN

TYPICAL WATER SERVICE 1"



ANCHORAGE OF FITTINGS LYING IN VERTICAL PLANE

M.J. VALVE

NO. ¾" RODS REQUIRED PIPE SIZE 12"& UNDER

-CLOW F1215 ANCHORING COUPLING OR F1216 ANCHORING PIPE OR EQUAL

FORCE MAIN AND PRESSURE RATED MINIMUM RESTRAINED JOINT FITTINGS REFERENCE LENGTH TABLE WHERE RESTRAINED LENGTHS ARE NOT INDICATED ON THE PLANS (SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS)

11'

28'

26′

25'

10'

31'

23′

21'

19'

25′

PIPE SIZE AND RESTRAINED JOINT LENGTH (BOTH SIDES OF FITTING) IN L.F.

21′

51′

48'

52′ 65' 78′

24'

58'

16′

39'

37'

38′

23'

44'

10"

26′

63′

59'

24' 25'

71' 85'

31'

74'

701

HYDRANT CONNECTION TYPE 3 SECTION COUNTY TOTAL SHEE CITY OF HAVANA - BROADWAY STREET 05-00035-00-SS MASON **WATERMAIN DETAILS** CONTRACT NO. 9350 SHEET NO. OF SHEETS STA. 10+37 TO STA. 31+99.5

M.J. FIRE HYDRANT

CLOW F1215 ANCHORING COUPLING OR F1216 ANCHORING PIPE OR EQUAL

HYDRANT INSTALLATION

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

081364_WM-Detail.dq

EXTENSION ROD-

TRACER WIRE-

TYPICAL VALVE BOX INSTALLATION

NOT TO SCALE

RETAINER GLANDS TO BE USED ON ALL VALVES. NO ADDITIONAL COMPENSATION ALLOWED.

VALVE BOX-STABILIZER

DESIGNED PSA REVISED ISER NAME DRAWN JTC REVISED CHECKED ERB/RDY REVISED 09/29/09 REVISED DT DATE = 9/28/2009 10:46:11 AM DATE

PROVIDE CONCRETE BASE AND BLOCKING AGAINST

UNDISTURBED EARTH.

7707 NORTH KNOXVILLE AVENUE, SUITE 200, PEORIA, ILLINOIS (309)689-9888 / (309)689-9820 FAX www.f-w.com Farnsworth

ILE NAME :