Leading the Way

MEMORANDUM

Public Works Department

July 3, 2018

To: Development Community

From: Bruce Mills, PE, Deputy Public Works Director

Subject: Supplement #1 to City Standard Specifications & Details

The City updated our Standard Specifications and Details this spring. They can be found on the City's web site at https://www.go2kennewick.com/1219/Standard-Specifications-Details

Since issuing this update, we find it necessary to issue the following supplements to revise certain sections. Rather than redoing the specs and details every time we have minor changes, we will issue supplements between full updates of the Standard Specifications & Details. These supplements will also be placed on our web site.

The City of Kennewick Standard Specifications & Details is revised by these supplements as follows:

Section 4-5 Fire Hydrants
4-5.02 Materials: Revised note to say "Fire Hydrants shall be one of the following types: Clow Medallion, M&H Model 129S, Mueller Centurion, or East Jordan Water Master 5CD 250."

Detail 3-2, (sheet 1 of 2) Standard Manhole – Revised note to say "precast ~~Concentric~~ Eccentric Cone unless otherwise approved."

Detail 3-5, Inside Drop Connection – Removed the Inside Drop Connection as an option.

Detail 5-5, Drywell – Revised note to say "3' ~~Concentric~~ Eccentric Cone unless otherwise approved."

Revised Detail drawings are attached.

xxxxx

PUBLIC WORKS

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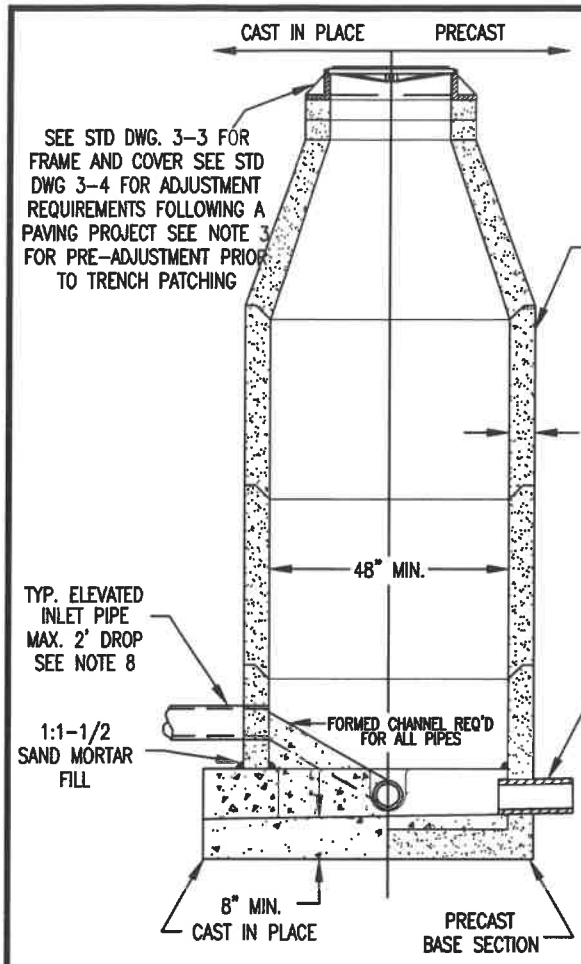
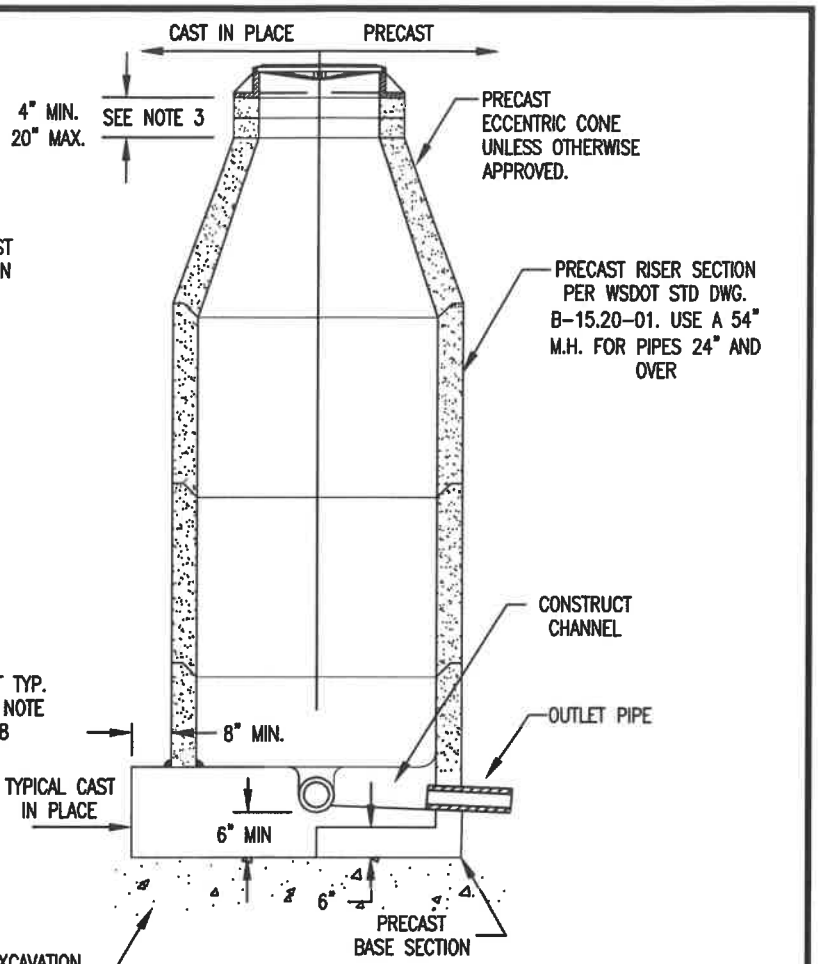
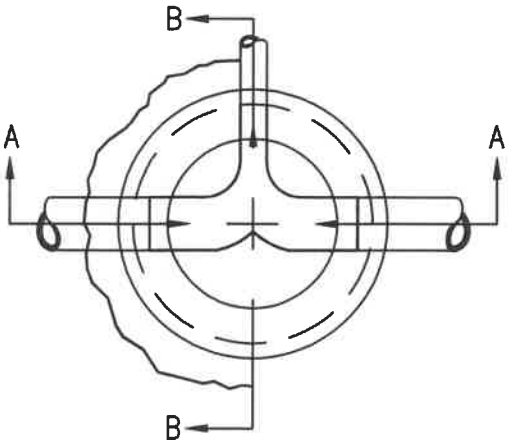


SECTION A-A



SECTION B-B



NOTE:

1. A RUBBER RING ENTRY COUPLING SHALL BE USED WITH P.V.C. PIPE.
2. ALL MANHOLE JOINTS SHALL BE MADE USING A CONTINUOUS FLEXIBLE RUBBER MANHOLE GASKET, OR FULL BED GROUT JOINT.
3. ADJUSTMENTS OVER 2" UTILIZE PRECAST CONCRETE RINGS. GROUT OR PLACE SEALANT (SONNEBORN - SONOLASTIC NPI, OR EQUAL) BETWEEN EACH RING AND AT FRAME, IN LIEU OF GROUTING BETWEEN EACH ADJUSTMENT RING, A CONCRETE COLLAR ENCASING ALL ADJUSTMENT RINGS MAY BE POURED PER THE REQUIREMENTS OF STD DWG 3-4. REMOVE ALL WOOD SHIMS AND FINISH GROUT (WIPE) INSIDE OF ADJUSTMENT RING.
4. A MINIMUM NUMBER OF ADJUSTMENT RINGS SHALL BE USED TO ACHIEVE GRADE.
5. ALL CHANNELIZATION OF MANHOLE BASES SHALL BE COVERED BY A RIGID MATERIAL DURING CONSTRUCTION OF ROAD SURFACES TO PREVENT FOREIGN MATERIALS FROM ENTERING SYSTEM PER SECTION 2-27 OF THESE SPECIFICATIONS.
6. PRIOR TO HIGH PRESSURE CLEANING THE SEWER MAIN, INSTALL A SEWER BALL OR PLUG, THE SAME DIAMETER AS THE SEWER MAIN, IN THE DOWN STREAM INVERT OF THE NEXT MANHOLE.
7. WHEN CONSTRUCTING MANHOLE OVER AN EXISTING MAIN, SUPPORT PIPE(S) WITH CONCRETE BLOCK AND POUR BASE AS SHOWN. REMOVE TOP 1/2 OF MAIN PIPE AND FORM SIDE CHANNEL(S) AS REQUIRED.
8. PROVIDE A MINIMUM 0.1 FOOT IN-OUT DROP FOR STRAIGHT RUNS AND 0.2 FOOT IN-OUT DROP FOR ANGLE RUNS.
9. WHEN CONNECTING TO AN EXISTING MANHOLE, PIPE HOLE TO BE CORE DRILLED.
10. NO PIPE JOINT SHALL BE PLACED WITHIN 10 FEET OF THE MANHOLE.

STANDARD MANHOLE

MINIMUM 5' INVERT TO COVER. SEE SHEET 2 FOR SHALLOW MANHOLES

CITY OF KENNEWICK

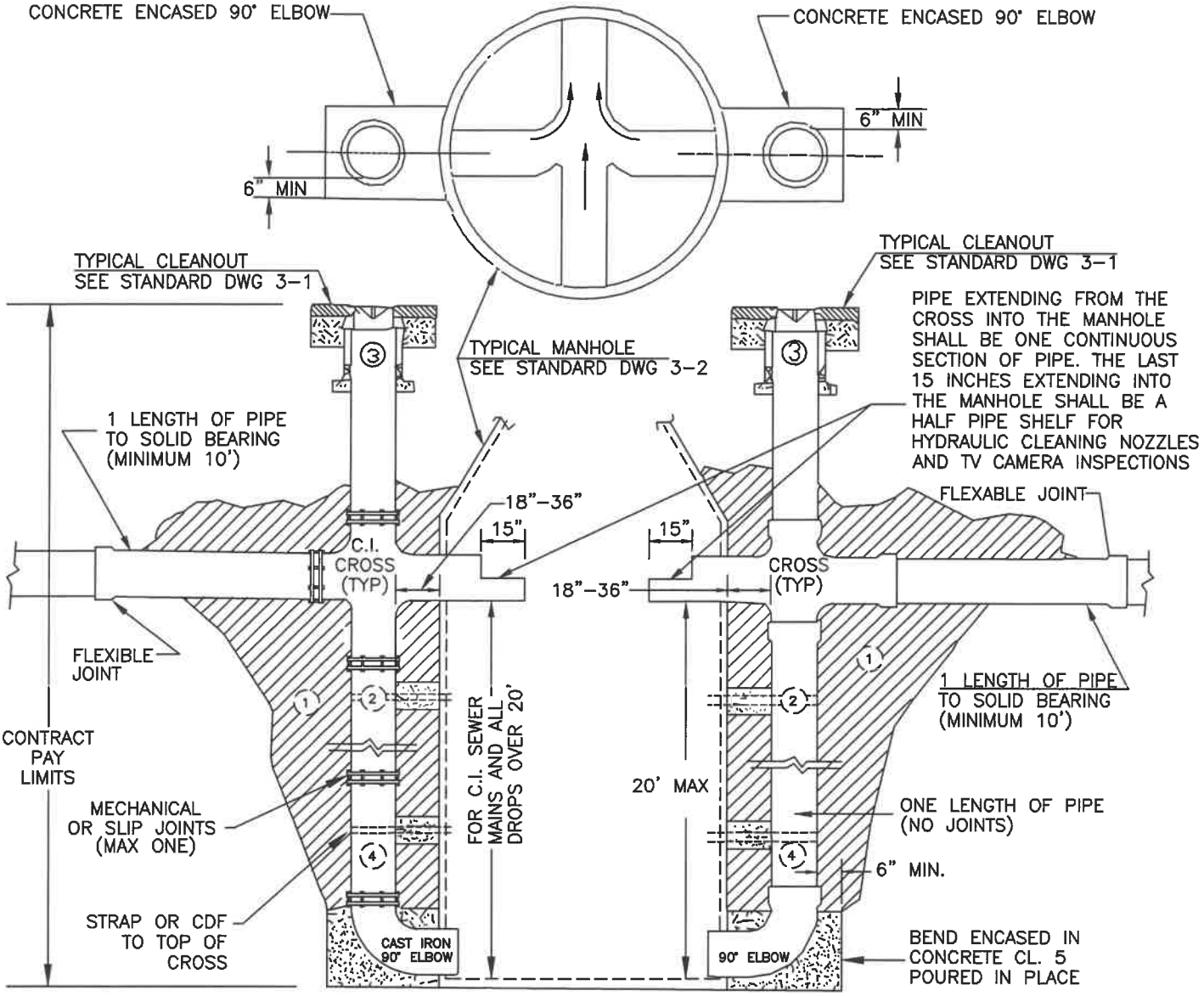
ENGINEERING DEPARTMENT

DATE	7/13
DWN	KDS
REV	6/18
CHK	BWB
SCALE	NTS

DWG. NO.

3-2

SHEET 1 OF 2



NOTES:

1. SELECT NATIVE BACKFILL MATERIAL OR IMPORTED BACKFILL MATERIAL COMPACTED PER SPECIFICATIONS
2. STAINLESS BANDS WITH CONCRETE SPACER TO MANHOLE (5' MAX. SPACING, 1' MIN.) OR CDF FILL TO TOP OF CROSS.
3. SEE STD DWG 3-1 FOR CLEANOUT DETAILS (NOT SHOWN)
4. DROP CONNECTION PIPE DIAMETER AND FITTINGS SHALL BE EQUAL TO OR GREATER THAN THE DIAMETER OF THE SEWER MAIN.

OUTSIDE DROP CONNECTION

REQUIRED FOR INVERT DROPS OF OVER 2 FEET

CITY OF KENNEWICK

ENGINEERING DEPARTMENT

DATE	2/97
DWN	DDS
REV	6/18
CHK	BWB
SCALE	NTS

DWG. NO.

3-5

4-4.06 PAYMENT

The unit contract price for "Imported Pipe Bedding," per linear foot, shall be full compensation for furnishing all labor, materials, tools, equipment, and incidentals necessary to supply, haul and place the imported bedding material in accordance with the plans and specifications or as directed by the Public Works Director or Designee.

Select native materials, which do not require truck haul and which are acceptable as bedding and utilized as bedding, shall be considered as incidental to the pipe installation and no additional payment will be made for its use as imported pipe bedding.

4-5 FIRE HYDRANT ASSEMBLIES

4-5.01 GENERAL

Installation of fire hydrants shall conform to the requirements of City of Kennewick Standard Drawing 4-4, 4-4A and SWSS Section 7-14 as herein modified. Hydrants in all areas of the city shall be three (3) port fire hydrants, as described in Section 4-5.02 of these specifications.

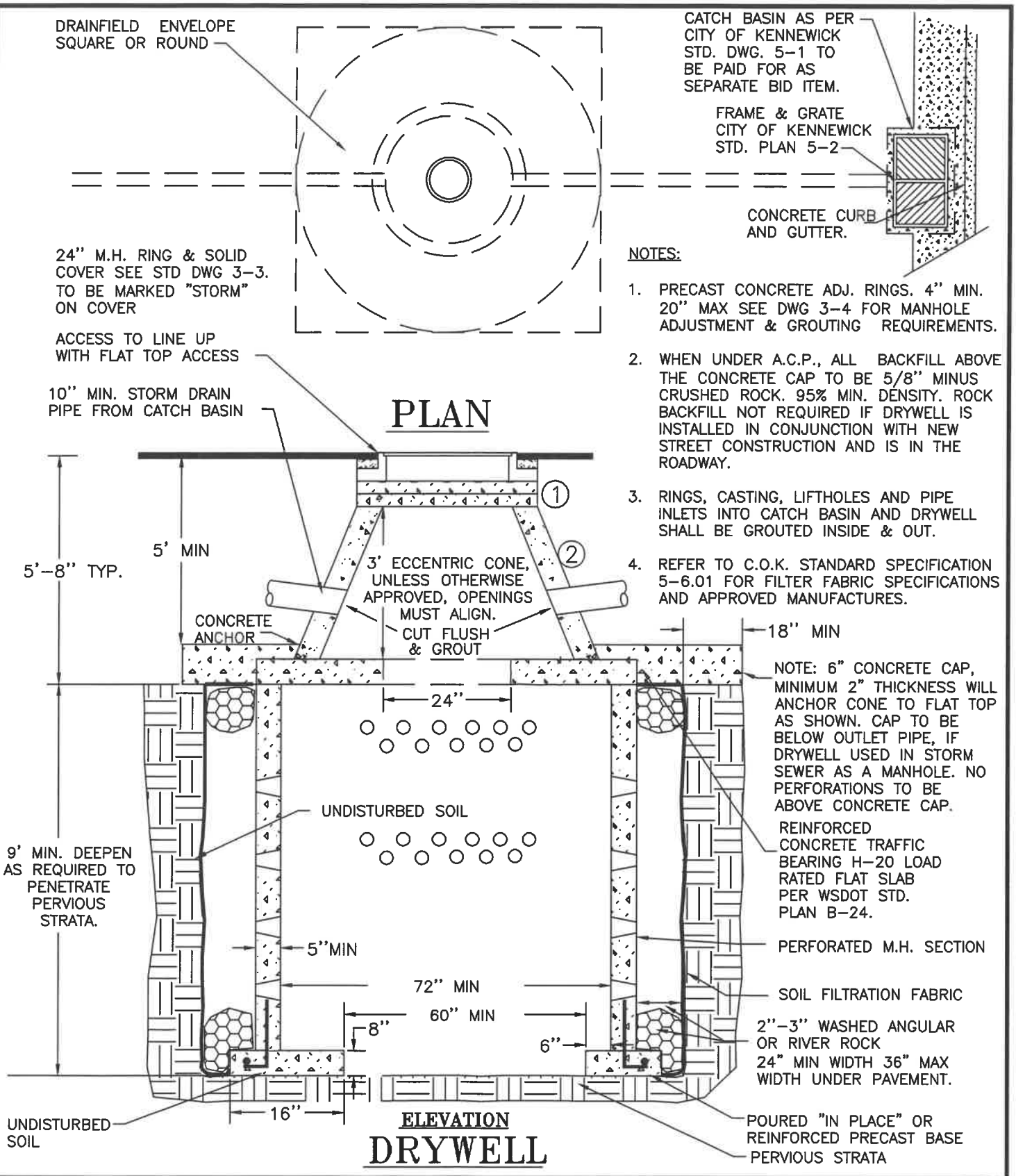
4-5.02 MATERIALS

Fire hydrants shall be one of the following types: Clow Medallion, M & H Model 1295, Mueller Centurion or East Jordan Water Master 5CD 250 with operating cap dust shield. The fire hydrant model that is selected by the Contractor for installation will be used exclusively within the project limits unless otherwise directed by the Public Works Director or Designee. The 6-inch and 12-inch flange vertical adjustment shall be manufactured specifically for the hydrant used and only be used when adjusting an existing fire hydrant. When not protected by a curb, hydrants shall be protected by guard posts per Standard Drawing 4-4, Sheet 2.

Fire hydrants shall be painted OSHA Safety Yellow above ground line. Hydrant paint shall be Quickset Enamel No. 3472 Hydrant Yellow as manufactured by Farwest Paint Manufacturing Company, 4522 South 133nd, Tukwila, WA 98168, or equal. The main valve opening shall be five and one-quarter inches (5-1/4") with two 2-1/2 inch hose nozzles with four (4) NST per inch and one 4-1/2 inch Steamer Port with four (4) NST per inch. The hydrant waste orifice at the base of the hydrant shall be bronze and connected to the hydrant by means of a bronze on bronze fitting to prevent rust and normal soil corrosion from plugging or interfering with its operation. Hydrants shall be of standard manufacture and of a pattern approved by the Owner. The name or mark of the manufacture, size of the valve opening, and year made shall be plainly cast in raised letters and so placed on the hydrant barrel as to be visible after the hydrant has been installed. Hydrants shall be a standard 4'-0" bury or deeper where conditions or conflicts require.

The hydrant shall be fitted with a permanent hydrant adapter, designed with metal sealing surfaces for permanent mounting. The adapter shall be a 5-inch Storz x 4-1/2-inch NH, equipped with cap and connector cable. The permanent hydrant adapter shall be Harrington, Inc., HPHA 50-45 NH or approved equal

The 6-inch and 12-inch vertical adjustment assemblies shall be complete, including the flanged riser, stem and all required components to provide a complete adjustment kit.



NOTES:

1. PRECAST CONCRETE ADJ. RINGS. 4" MIN. 20" MAX SEE DWG 3-4 FOR MANHOLE ADJUSTMENT & GROUTING REQUIREMENTS.
2. WHEN UNDER A.C.P., ALL BACKFILL ABOVE THE CONCRETE CAP TO BE 5/8" MINUS CRUSHED ROCK. 95% MIN. DENSITY. ROCK BACKFILL NOT REQUIRED IF DRYWELL IS INSTALLED IN CONJUNCTION WITH NEW STREET CONSTRUCTION AND IS IN THE ROADWAY.
3. RINGS, CASTING, LIFTHOLES AND PIPE INLETS INTO CATCH BASIN AND DRYWELL SHALL BE GROUTED INSIDE & OUT.
4. REFER TO C.O.K. STANDARD SPECIFICATION 5-6.01 FOR FILTER FABRIC SPECIFICATIONS AND APPROVED MANUFACTURES.

CITY OF KENNEWICK

ENGINEERING DEPARTMENT

DATE	2/93
DWN	RAW
REV	6/18
CHK	BWB
SCALE	NTS

DWG. NO.

5-5