ENGINEERING

CALIFORNIA WATER SERVICE CO.

DEPARTMENT

REVISIONS:

	DATE:	INIT.
DISTRIBUTION MAP		
PLAT SHEET		
SYSTEM SCHEMATIC		
ELEVATION SCHEMATIC		
ZONE MAP		
VALVE RECORD		

PLAT SHEET NO.: STK-30-23

SCALE: N.T.S.

DRAWN BY: W. RODRIGUEZ

DESIGNED BY: J.E. VIRGILIO

CHECKED BY: DATE: 3/16/07

APPROVED BY: DATE: 3/16/07

TITLE:

INSTALL 415 FT. OF 6" PVC & RELOCATE TWO VALVES IN MENDOCINO AVE. RELOCATE ONE VALVE IN SONOMA AVE.

DISTRICT: STOCKTON

DATE: 3/16/2007

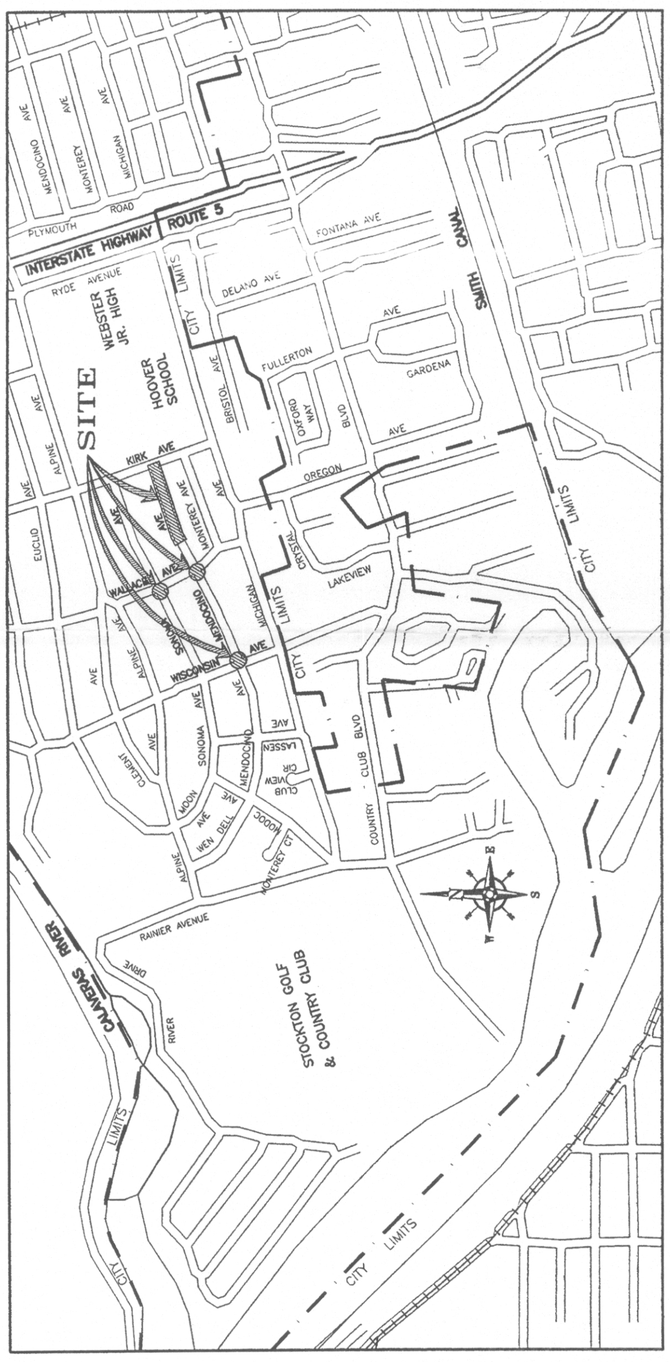
PROJECT ID.: 17992

DRAWING NO.: STK-8516

SHT 1 OF 2

VICINITY MAP

N.T.S.



BILL OF MATERIALS

QUANTITY	DESCRIPTION
415'±	6" PVC PIPE
1	6" TEE, PO W/FIELD-LOK GASKETS
2	6" ELL 45°, PO W/FIELD-LOK GASKETS
4	6" GATE VALVE, PO W/FIELD-LOK GASKET
1	6" TRANS. COUPLING (ACxPVC)
4	6" SOLID SLEEVE, MJ
4	VALVE CASING COVER & ASSEMBLY
AS REQ'D	TRACER WIRE #12 AWG STRANDED COPPER-THW INSULATED
AS REQ'D	LINE GUARD TAPE
AS REQ'D	METAL GUARD #3M1
AS REQ'D	RES BIT WRAP (100' ROLLS)
MISC	MATERIALS INCLUDING CAPS FOR TESTING, DISINFECTION, AND FLUSHING
MISC	POLY WRAP, TRACER WIRE, LINE GUARD, METAL GUARD, PVC TAPE, AND PVC TAPE FOR FIRE HYDRANT ASSEMBLY

REFERENCE LIST ONLY -- CONTRACTOR TO VERIFY AND OBTAIN ALL MATERIALS REQUIRED TO COMPLETE THE PROJECT.

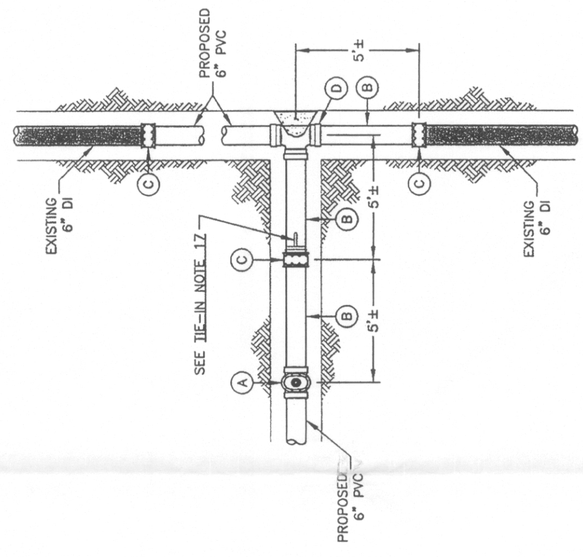
LEGEND:

- TEE
- ELBOW, 45°
- ELBOW, 90°
- BLOWOFF (PROPOSED)
- BLOWOFF (EXISTING)
- GATE VALVE (PROPOSED)
- GATE VALVE (EXISTING)
- REDUCER (PROPOSED)
- REDUCER (EXISTING)
- SOLID PLUG
- PROPOSED WATER MAIN
- EXISTING WATER MAIN
- WALL
- SANITARY SEWER
- STORM DRAIN
- FIRE HYDRANT (PROPOSED)
- FIRE HYDRANT (EXISTING)
- BUTTERFLY VALVE
- CHECK VALVE
- FLEX CPLG.
- ALTITUDE VALVE

SUMMARY OF WORK

- INSTALL 415'± OF 6" PVC PIPE
- RELOCATE 3 GATE VALVES
- ABANDON 380'± OF 4" ACRB PIPE
- ABANDON 20'± OF 6" DI PIPE
- REMOVE 15'± OF 6" DI PIPE
- REMOVE 5'± OF 6" ACRB PIPE

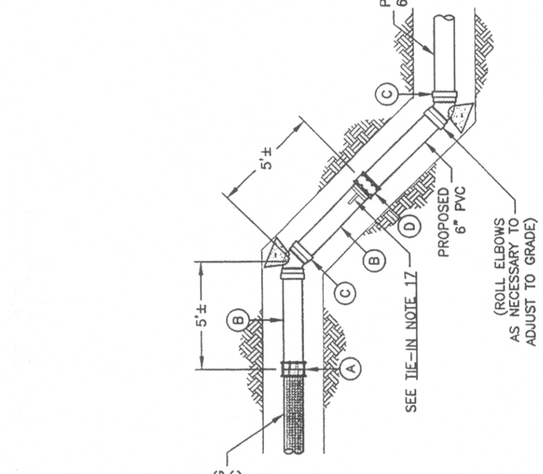
IMPORTANT:
- THE CONTRACTOR SHALL FIELD VERIFY ALL UTILITES PRIOR TO EXCAVATION.



	QTY	DESC.
A	1	6" GATE VALVE, PO W/FIELD-LOK GASKETS
B	15'	6" PVC PIPE
C	3	6" SOLID SLEEVE MJ
D	1	6" TEE, PO W/FIELD-LOK GASKETS

DETAIL "B"

N.T.S.



	QTY	DESC.
A	1	6" TRANS. CPLG. (PVCxACRB)
B	10'	6" PVC PIPE
C	2	6" ELL, 45° PO, W/FIELD-LOK GASKETS
D	1	6" SOLID SLEEVE MJ

DETAIL "A"

N.T.S.

NOTES:

1. Inspection of all materials and installation for pipeline, hydrants and services must be made by California Water Service Company. Telephone: TEL at least 48 hours before starting work on water facilities.
2. Any easements and rights-of-way which may be necessary or reasonably appropriate for the extension will be conveyed or caused to be conveyed by the applicant.
3. Contact Underground Service Alert at (800) 642-2444 at least 48 hours prior to the commencement of this project.
4. Place a continuous wire and strip of detector tape over all pipe and extend up into all valve boxes. Tracer wire is required on all pipe.
5. For details of typical thrust block installation, see drawing CW 435-R4.
6. Protect underground flexible couplings, bare steel, MJxMJ sleeves, and all bolts (including stainless steel) as follows:
   A. The entire area of the fitting must be dry and free of dust, dirt, and other foreign matter. Rust or other foreign matter must be removed by scraping or wire brushing. Wiping with a dry clean cloth may be necessary to remove the particles from brush cleaning. Any oil or grease must be removed by using a low residue, volatile petroleum solvent before application of grease and wrapping.
   B. The exposed area should be coated with a heavy coating of Metalguard 301 grease by the glove method to a thickness of at least 1/4".
   C. Firmly wrap the entire grease area with one layer, half lapped of a woven glass filament mesh (Res or Bit Wrap, 4" wide).
   D. Apply a second layer of Metalguard 301 grease on top of the glass filament by the glove method to a thickness of at least 1/4".
   E. Firmly wrap the entire grease area with a second layer, half lapped of the woven glass filament mesh.
   F. Cover the entire mesh wrapped area of the fitting with a third and final coating at least 1/4" thick of Metalguard 301 grease by the glove method.
   G. Firmly apply 2 layers of polywrap, half lapped over all areas of the coated and wrapped fitting. Backfilling may follow immediately after this wrapping.
7. Water main shall be installed at least 10 ft. horizontally from and one foot higher than storm and sanitary sewers located parallel to the main if feasible. Center a 20 foot length at all storm and sanitary sewer crossings. Minimum separation between sewer and water main shall be one foot unless otherwise indicated.
8. No valve covers or meter boxes are to lie in sidewalks, cross gutter, curb or driveways. Each service should also be located to provide protection to the meter box from auto traffic and parking.
9. The exact location of each service to be determined at the time of installation to avoid conflicts with other utilities. Therefore, the number of long, short and split services may vary. Preferred CWS location to be staked and installed by developers's engineer. Any relocations after installation will be at developer's expense.
10. Location of blow-off in new street area will terminate where street improvement ends.
11. Services installed across street area will need import backfill when government agency's compaction requirements cannot be met with native backfill.
12. It is the responsibility of the contractor to verify the exact location and depth of all existing and proposed facilities prior to water main installation.
13. The list of materials for this project is for CWS Co. estimating and reference purposes only and is not intended as a full take-off of material required.
14. The water supply for this development is from local underground aquifers. Additional wells for replacement and pressure will be required in the future.
15. Developer shall obtain all permits necessary for the installation of the facilities.
16. This water plan design is based on incomplete and unapproved improvement plans. Therefore, sewers, storm drains and street grading conflicts may occur.
17. Contractor to install temporary end cap and blow off at this point for testing and disinfection of water main prior to completing tie-in and reconnect with coupling.

17. ◎ = Indicates fire hydrant (Stockton)

The following items are not a part of the refundable extension agreement for each fire hydrant. Others to provide materials & labor:

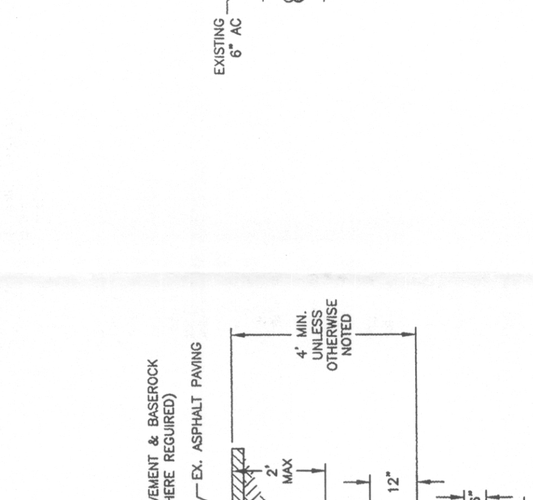
1 - 6 Inch Outlet Tee POxFLG CI CL
1 - 6x8-3/4x1/16 Inch Ring Gasket W/CI
8- 3/4x3-1/2 Inch Machine Bolts W/Hex Nuts, 18-8 Stainless Steel
1 - 6 Inch Gate Valve FLGxMJ NRS NO RS
1 - Valve Casing and Cover Assembly
+/- 7 Feet of 6 Inch PVC Pipe CL150
1 - 6 Inch Fire Hydrant Bury FLGxMJ
1 - 6 Inch Fire Hydrant Head

Polywrap Tubing, PVC Tape, Line Guard and misc. coating mat'l.

Hydrant assembly W/City of Stockton approval.

The CWS Co portion of the installation of the fire hydrant shall be limited to the POxFLG tee and FLGxMJ gate valve. The gate valve, gasket & bolts shall be supplied by others. The remainder of the fire hydrant materials shall be installed by others with the City of Stockton fire department approval.

The City of stockton owns the Fire Hydrant assembly.



NOTE:
1. ALL EXCESS SPOIL IN TRACT IS TO REMAIN TRENCHSIDE AND ALL EXCESS SPOIL OFF TRACT IS TO BE REMOVED.
2. ALL VALVE CASINGS AND COVERS SHALL BE RAISED TO FINISHED GRADE AFTER PERMANENT PAVEMENT HAS BEEN PLACED.

TRENCH CROSS SECTION

SCALE: N.T.S.

EP.07.86-1