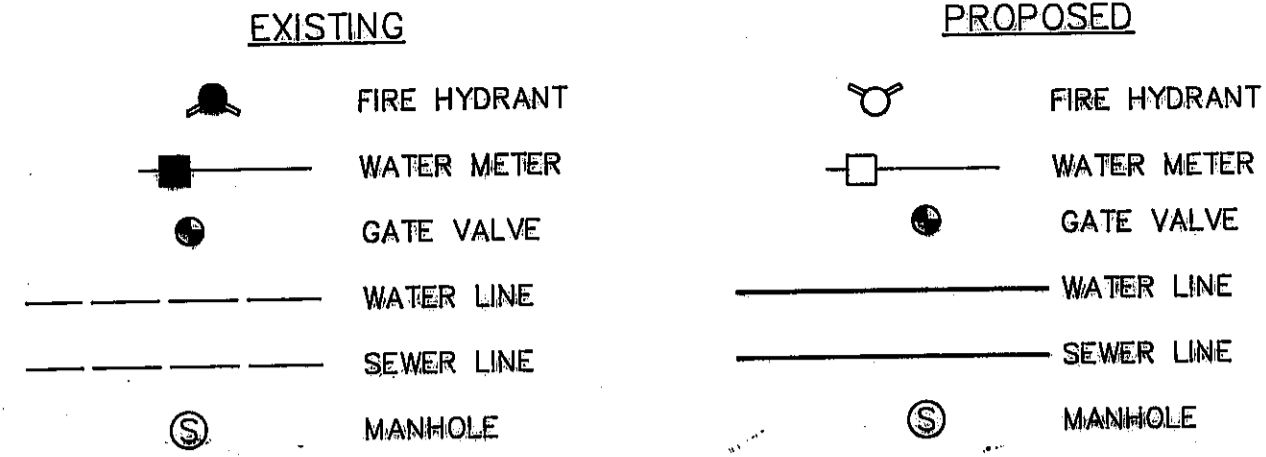
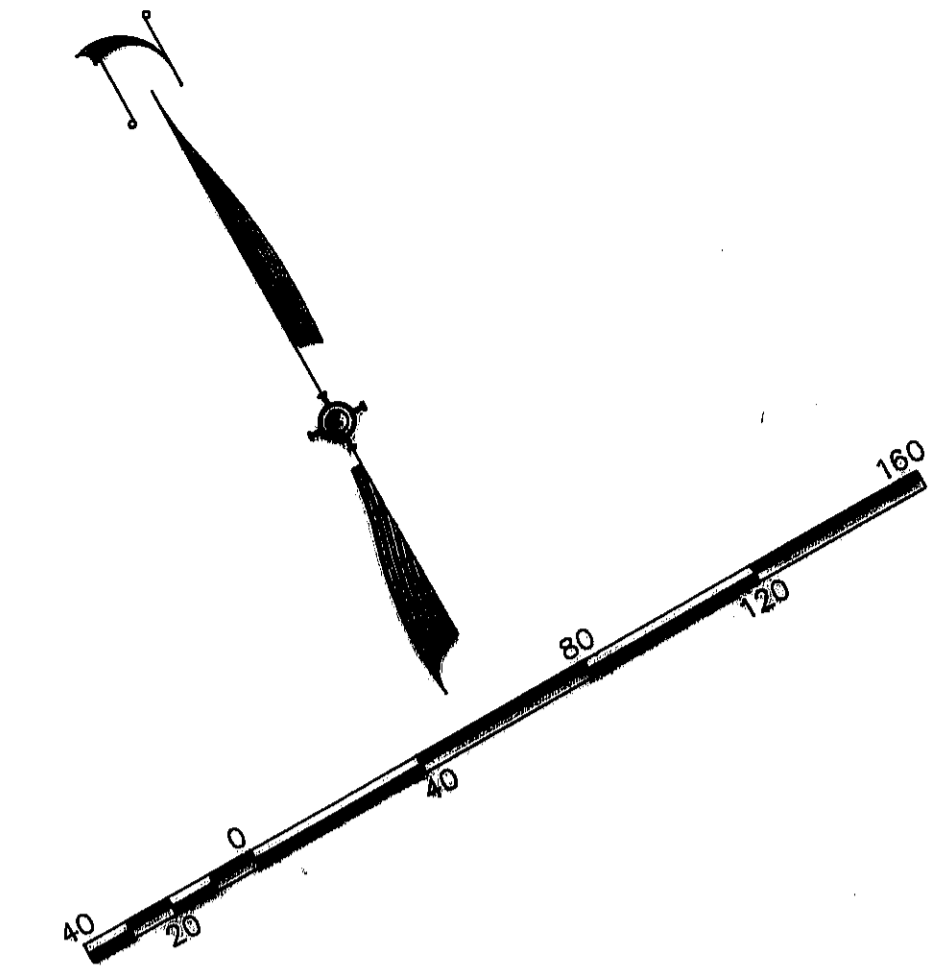


**LEGEND**



**CONSTRUCTION NOTES**

- ① RELOCATE EXISTING WATER METER AS SHOWN.(SEE DETAIL "A" HEREON).
- ② EXTEND 4" DIA. SEWER LATERAL AS SHOWN.(SEE DETAIL "A" HEREON).
- ③ RELOCATE EXISTING FIRE HYDRANT AS SHOWN.(SEE DETAIL "B" HEREON).
- ④ INSTALL NEW 3/4" WATER SERVICE LATERAL WITH 5/8" WATER METER AS SHOWN
- ⑤ INSTALL NEW 4" DIA. PVC SEWER LATERAL AS SHOWN.
- ⑥ INSTALL 8" DIA. TEE W/ 8" GATE VALVE AND THRUST BLOCK.
- ⑦ INSTALL 8" 90° BEND W/ THRUST BLOCK.
- ⑧ INSTALL 8" DIA. 22-1/2" BEND W/THRUST BLOCK.
- ⑨ TIE IN TO EXISTING 8"x16" REDUCER.
- ⑩ INSTALL 121 LF OF 8" PVC WATERLINE
- ⑪ INSTALL 94 LF OF 8" PVC WATERLINE
- ⑫ INSTALL 31 LF OF 8" PVC WATERLINE
- ⑬ INSTALL 8" TEE AND 8" GV. CONNECT EXIST WATER TO PROPOSED WATERLINE.
- ⑭ OPEN EXIST GATE VALVES, POUR CONCRETE AROUND VALVE AREA
- ⑮ INSTALL 60 LF 8" WATERLINE PLUG AND CAP @ END WITH THRUST BLOCK
- ⑯ INSTALL 8" TEE WITH 8" GV AS SHOWN.
- ⑰ INSTALL 75 LF 8" PVC SANITARY SEWER MAIN @ 1% MIN. SLOPE. INVERT OUT = 488.55 *HW-11-108.57*
- ⑱ INSTALL 48" SANITARY SEWER MANHOLE
- ⑲ RELOCATE EXISTING 5/8" WATER METER.



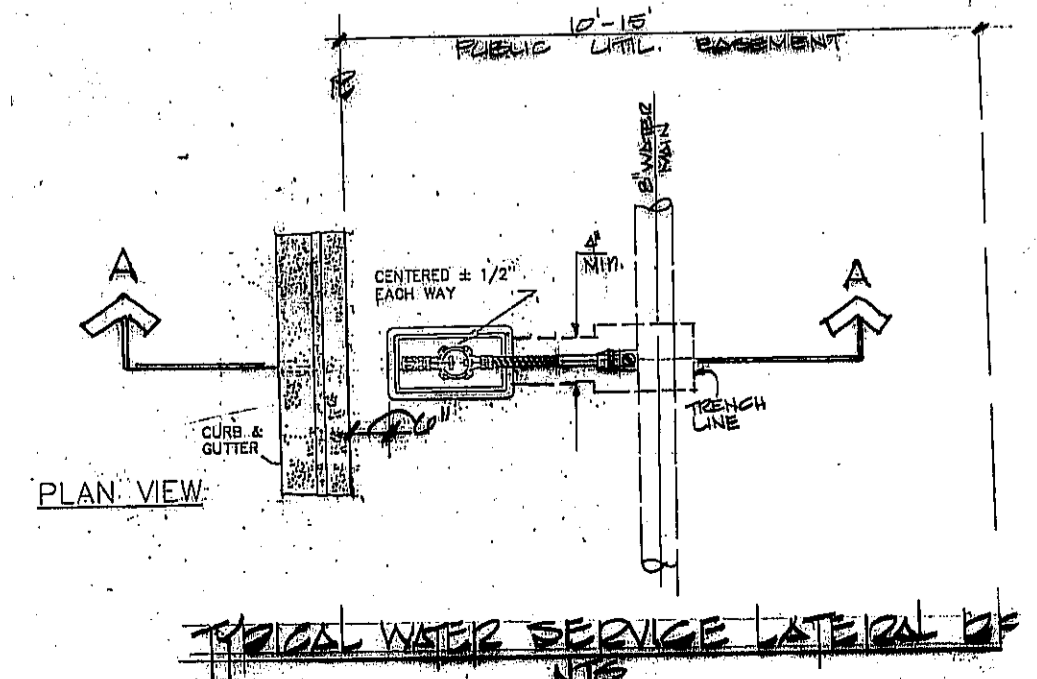
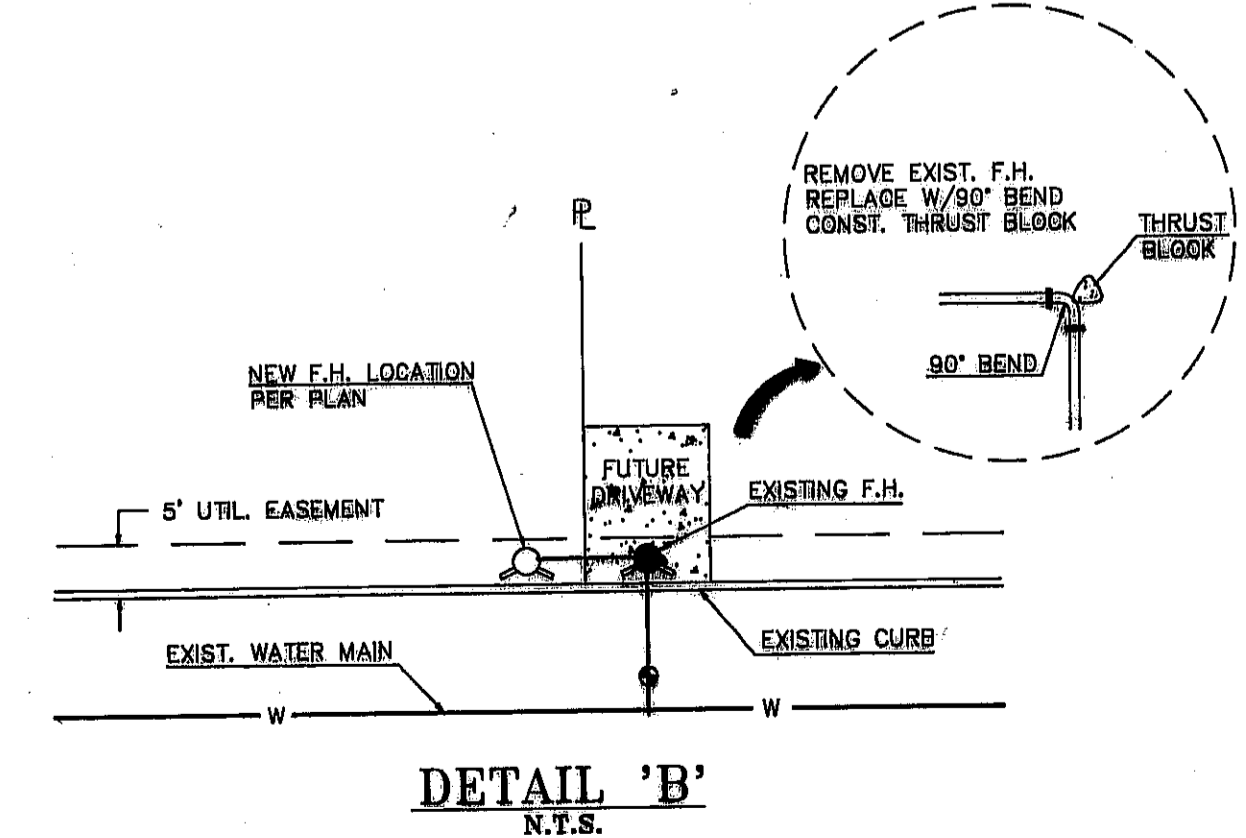
**NOTE:**  
ALL DRIVEWAYS ARE SHOWN FOR THE PURPOSE OF LOCATING WATER AND SEWER SERVICE LATERALS ONLY. DRIVEWAYS ARE NOT TO BE CONSTRUCTED WITH THESE PLANS.

**UTILITY NOTE**

UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.

Avoid cutting underground utility lines. Use caution.

Call before you Dig  
1-800-227-2600  
UNDERGROUND SERVICE (USA)

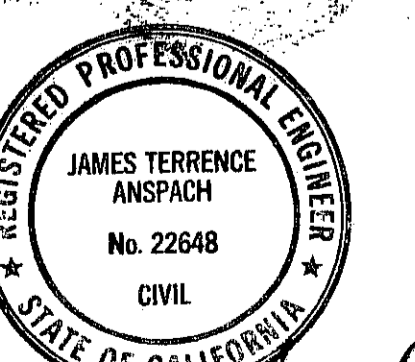
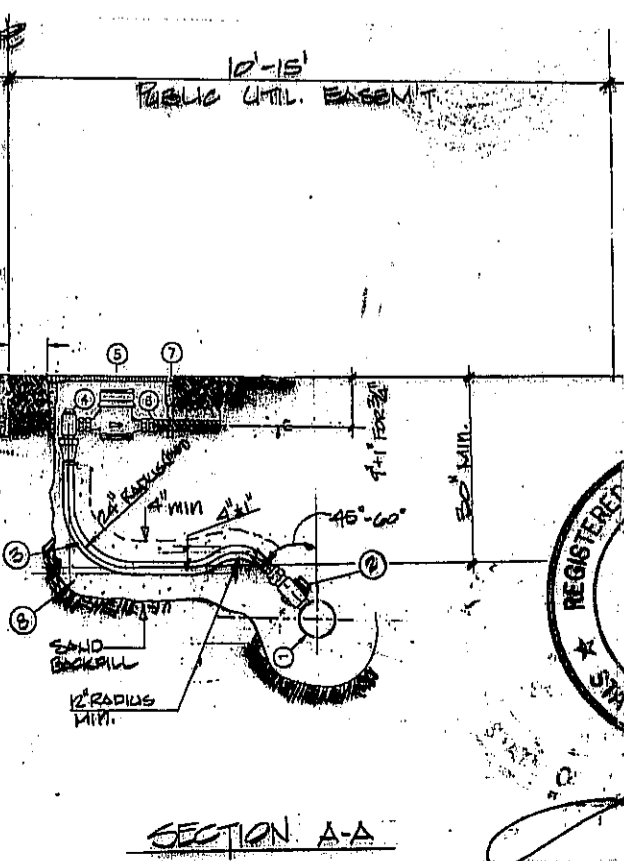


**LEGEND:**

- ① THROUGH COLLAR FOR 3/4" AND 1" LATERAL ONLY OR SERVICE SADDLE
- ② PREPARATION STOP
- ③ SERVICE LATERAL
- ④ BALL ANGLE METER STOP WITH LOCK RING AND WITHOUT LEVER HANDLE
- ⑤ REPLACEMENT TYPE WATER METER
- ⑥ DISTRICT PROVIDED CONTRACTOR INSTALLED
- ⑦ TAIL PIECE COUPLING
- ⑧ METER BOX
- ⑨ 3/4" BOLLER FULL 180° OF BEND

**NOTE:**

1. ONE ADDITIONAL FLARED COUPLING OR CORRECTION COUPLING IS ALLOWED BETWEEN THE COMBINATOR STOP AND THE ANGLE METER STOP IF THE DISTANCE IS MORE THAN 40'
2. CU-IN-SAC SERVICE LATERALS MUST FOLLOW THE MOST DIRECT ROUTE POSSIBLE BETWEEN SERVICE SADDLE AND ANGLE METER STOP. HORIZONTAL BENDING RADIUS ALLOWED FOR 3/4" AND 1" TUBING IS 12" MIN. AND 24" MIN. FOR 1 1/2" AND 2" TUBING. MAXIMUM COLLECTION ANGLE ALLOWED IS 90°. AN APPROPRIATE SIZE 90° CORRECTION OR FLARED CONNECTION SHOULD BE USED.
3. IF A 24" MIN. RADIUS CAN NOT BE MAINTAINED



*James Terrence Anspach*  
EXP 12/31/97

**SUMMIT ENGINEERING CORPORATION**  
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DESIGNED BY: A.S.M.  
DRAWN BY: BRU/KEA  
CHECKED BY: J.T.A.  
SEPTEMBER 1994

PORTOBELLO MASTER UTILITY PLAN NORTH HALF SAN BERNARDINO COUNTY CALIFORNIA

REV.	DATE	DESCRIPTION	BY	APP'D
1	8/22/95	REMOVED PROPOSED WATER BEHIND CURB & RELOCATED LATERALS	MCS	

SHEET 9 OF 15