

- ① LOCATING WIRE FOR PVC.
- ② 6-HOLLOW BREAKAWAY BOLTS WITH NUTS ON UPPER FLANGE (SEE DETAIL ②).
- ③ 6" DIAMETER FLANGED BREAKOFF "SPOOL". LOCATE FRACTURE LINE ABOVE HARDSCAPE.
- ④ 6"x36" BURY WITH FLANGE RISER AND MECHANICAL JOINT OR AS APPROVED BY CITY ENGINEER.
- ⑤ MECHANICAL JOINT WITH MJ RETAINER GLANDS.
- ⑥ POUR THRUST BLOCK AGAINST UNDISTURBED SOIL PER STD. DET. 006.
- ⑦ PIPELINE PROTECTIVE COVERING PER DETAIL 001.
- ⑧ VALVE BOX AND COVER PER STANDARD DETAIL 004.
- ⑨ 6" D.I.P. OR PVC.
- ⑩ HYDRANT TEE U-590, AS MANUFACTURED BY U.S. PIPE FOUNDRY CO. OR AS APPROVED BY CITY ENGINEER. OTHERWISE HYDRANT TEE SHALL BE MECH. TYTON JOINT x 6" FLG. TEE.
- ⑪ 6" FLANGE x MECH. JOINT RESILIENT WEDGE GATE VALVE.
- ⑫ WATER MAIN.
- ⑬ BLUE REFLECTOR SEE SHEET 2.
- ⑭ FINISHED PAVEMENT.
- ⑮ FIRE HYDRANT BREAKOFF CHECK VALVE. SEE SHEET 2 OF 4.

CITY OF SAN BUENAVENTURA

PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

FIRE HYDRANT

STD. DET. NO.

020

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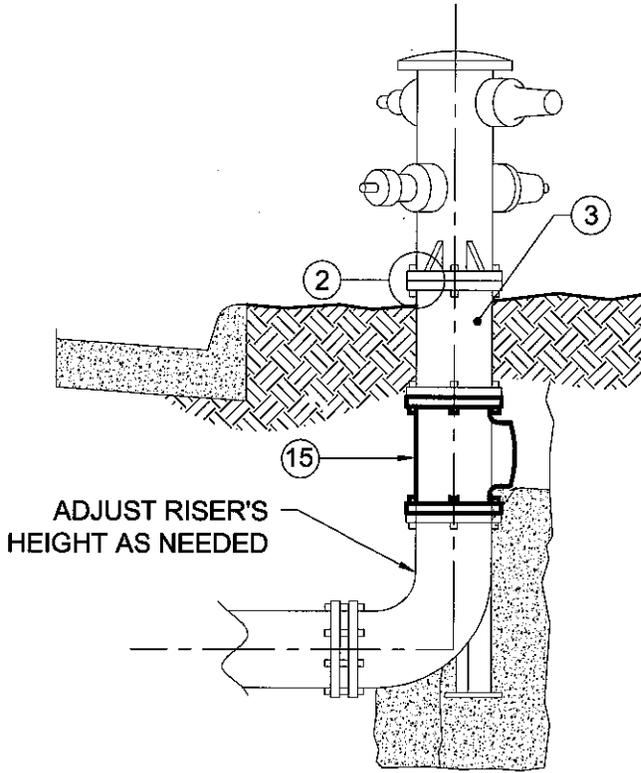
WATER GENERAL MANAGER

APPROVED BY:

CITY ENGINEER R.C.E. 37084

DATE 7-7-16

SHEET
1 of 4



SEE NOTES SHEET 1 OF 4

NOTE:

BREAK-OFF CHECK VALVES SHALL ONLY BE INSTALLED ON FIRE HYDRANTS THAT HAVE A GRADE ELEVATION HIGHER THAN THE ADJACENT PROPERTY'S MAIN FLOOR FINISH ELEVATION OR AT STREET INTERSECTIONS WHERE THEY CAN BE HIT BY TRUCKS AS APPROVED BY THE CITY ENGINEER. IF A FIRE HYDRANT IS EQUIPPED WITH A BREAK-OFF CHECK VALVE, THE BREAK-OFF CHECK VALVE SHALL BE SELECTED FROM THE FOLLOWING LIST OR AS APPROVED BY CITY ENGINEER:

- LB400[®], AVK FLOWGUARD II[®]
- JONES TELL-TAIL BREAK-OFF HYDRANT
- CLOW MODEL LBI 400A

CITY OF SAN BUENAVENTURA

PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

FIRE HYDRANT WITH BREAK-OFF CHECK VALVE

STD. DET. NO.

020

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WATER GENERAL MANAGER

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CITY ENGINEER R.C.E. 37064

DATE **7-7-16**

SHEET
2 of 4

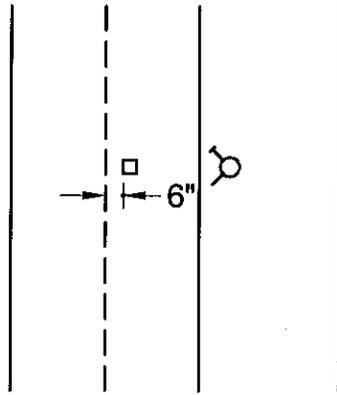


FIGURE 1
TWO LANE STREET

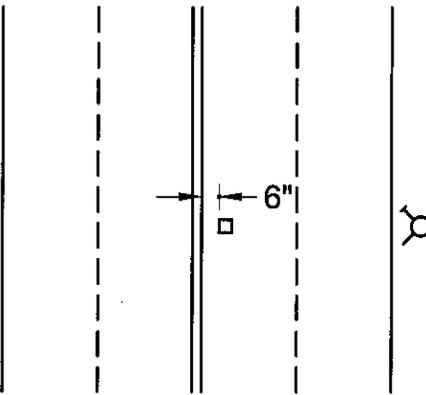


FIGURE 2
MULTI-LANE STREET

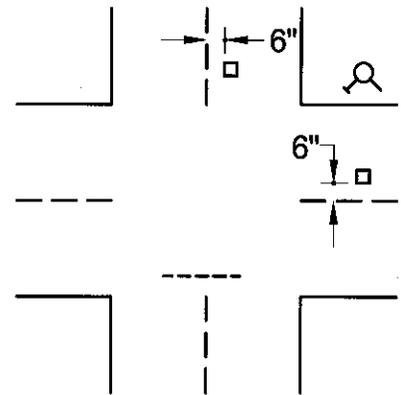


FIGURE 3
AN INTERSECTION

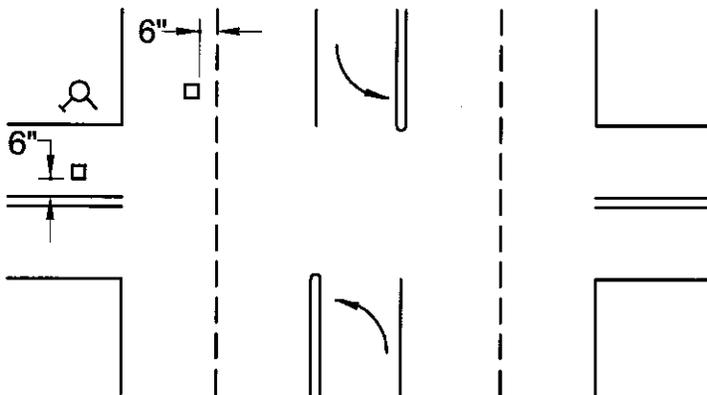


FIGURE 4
FOURLANE STREET WITH TURN LANE
AT INTERSECTION

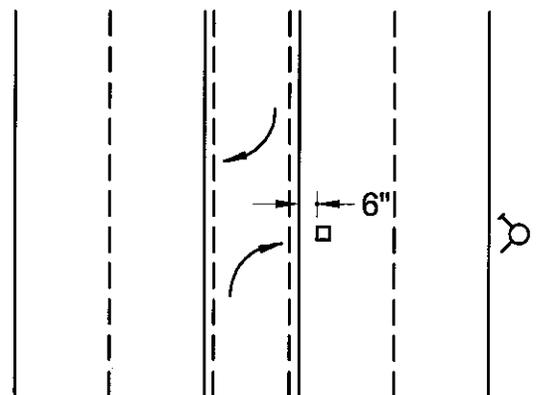


FIGURE 5
MULTI-LANE STREET
WITH TURN LANE

☉ = FIRE HYDRANT

□ = BLUE REFLECTORIZED PAVEMENT MARKER

NOTE:

WHEN A STREET HAS NO PAINTED CENTERLINE, THE MARKER SHALL BE PLACED SIX INCHES FROM THE APPROXIMATE CENTER OF THE ROADWAY ON THE SIDE NEAREST THE HYDRANT.

CITY OF SAN BUENAVENTURA

PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

REFLECTIVE HYDRANT MARKER

STD. DET. NO.

020

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GENERAL FIRE HYDRANT NOTES

1. SEE CITY STANDARD DETAIL 001 - GENERAL WATER NOTES.
2. 3-WAY HYDRANTS SHALL BE USED UNLESS OTHERWISE NOTED AND SHALL HAVE ONE 2-1/2" UPPER HOSE OUTLET AND TWO 4" LOWER STEAMER OUTLET.
3. FIRE HYDRANT AND BURY SHALL BE CALIFORNIA TYPE "WET BARREL" HYDRANT CONFORMING TO AWWA AND SHALL BE SELECTED FROM THE FOLLOWING LIST OR AS APPROVED BY CITY ENGINEER:
 - AVK SERIES 2470 (RESIDENTIAL) 2490 (COMMERCIAL) OR 2420 (INDUSTRIAL)
 - JONES 4040 OR 4065 SERIES
 - CLOW SERIES 850 (RESIDENTIAL) 860 (COMMERCIAL) OR 865 (INDUSTRIAL)
4. FIRE HYDRANTS SHALL BE LOCATED 3' MIN. - 5' MAX. DISTANCE BEYOND THE CURB RETURN. FOR 25' AND 35' CURB RADII, LOCATE HYDRANT 3' TO 4' INSIDE CURB RETURN. IF LOCATED AT OTHER THAN A STREET INTERSECTION, HYDRANTS SHALL BE LOCATED AT PROPERTY LINE EXTENSIONS, OR AS NOTED ON PLANS.
5. ALL FIRE HYDRANTS ARE TO BE ROTATED AT THE TIME OF INSTALLATION SO THAT HYDRANT OUTLETS ARE POSITIONED 45° SYMMETRICALLY TO A THEORETICAL CENTER LINE PERPENDICULAR TO THE NEAREST VEHICLE ROADWAY OR PATH.
6. FIRE HYDRANTS SHALL BE PAINTED WITH TWO COATS OF SAFETY YELLOW PAINT "PPG AMERSHIELD VOC" OR AS APPROVED BY CITY ENGINEER.
7. A SINGLE BI-DIRECTIONAL BLUE REFLECTOR SHALL BE INSTALLED 6" FROM CENTERLINE OF STREET ADJACENT TO FIRE HYDRANT.
8. HYDRANT TO HAVE BRASS OR CAST IRON CAPS (NO PLASTIC). CONTRACTOR SHALL NOT REMOVE CHAINS.
9. CONTRACTOR SHALL PROVIDE A CERTIFIED FLOW TEST FOR EACH HYDRANT - SEE STD. DETAIL 001.
10. IF NOTED, 2-WAY HYDRANTS SHALL BE USED IN RESIDENTIAL AREAS OR AS SPECIFIED BY THE CITY ENGINEER. 2 WAY HYDRANTS SHALL HAVE ONE 2 1/2" UPPER HOSE OUTLET AND ONE 4" LOWER STEAMER OUTLETS.

CITY OF SAN BUENAVENTURA

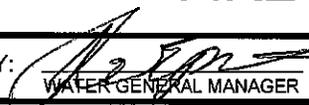
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FIRE HYDRANT NOTES

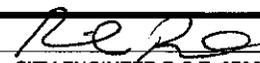
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