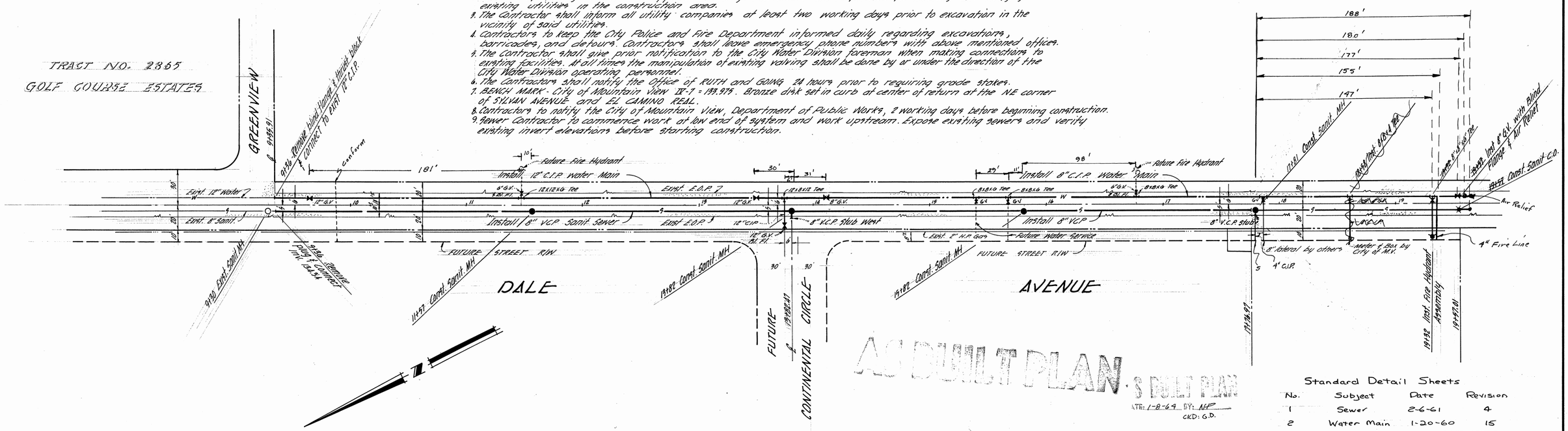
POOR LEGIBILITY

ONE OR MORE PAGES IN THIS DOCUMENT ARE DIFFICULT TO READ
DUE TO THE QUALITY OF THE ORIGINAL

SEMS-RM DOCID # 1165004

GENERAL NOTES

1. All work to be in accordance with the City of Mountain View Standard Specifications.
2. Location of existing utilities are approximate only. Contractors are responsible for locating and verifying existing utilities in the construction area.
3. The Contractor shall inform all utility companies at least two working days prior to excavation in the vicinity of said utilities.
4. Contractors to keep the City Police and Fire Department informed daily regarding excavations, barricades, and detours. Contractors shall leave emergency phone numbers with above mentioned offices.
5. The contractor shall give prior notification to the City Water Division foreman when making connections to existing facilities. At all times the manipulation of existing valving shall be done by or under the direction of the City Water Division operating personnel.
6. The Contractors shall notify the Office of RUTH and GOING 24 hours prior to requiring grade stakes.
7. BENCH MARK - City of Mountain View IV-7 = 199.979. Bronze disk set in curb at center of return at the NE corner of SYLVAN AVENUE and EL CAMINO REAL.
8. Contractors to notify the City of Mountain View, Department of Public Works, 2 working days before beginning construction.
9. Sewer Contractor to commence work at low end of system and work upstream. Expose existing sewers and verify existing invert elevations before starting construction.

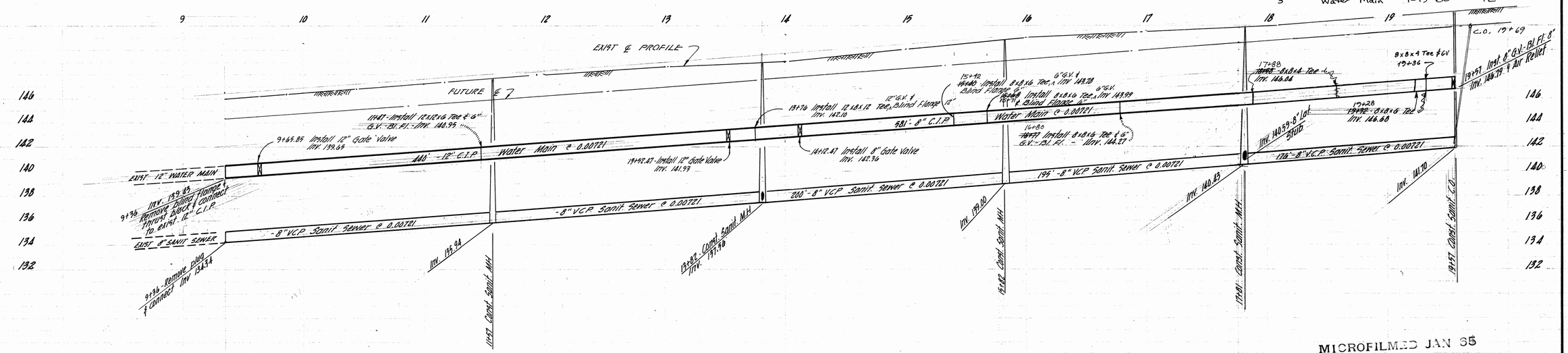


AS BUILT PLAN

DATE: 1-8-64 BY: NEP
CKD: G.D.

Standard Detail Sheets

No.	Subject	Date	Revision
1	Sewer	2-6-61	4
2	Water Main	1-20-60	15
3	Water Main	1-19-60	12



MICROFILMED JAN 85

PROFILE OF DALE AVENUE

HORIZ 1" = 40'
VERT 1" = 4'

CHECKED
DATE

CITY OF MOUNTAIN VIEW
DEPARTMENT OF PUBLIC WORKS
APPROVED: Richard R. Pratt
ASST. DIRECTOR OF PUBLIC WORKS
DATE: 4-27-64
RCE 13416

DALE AVENUE SANITARY SEWER AND WATER MAIN EXTENSION
CITY OF MOUNTAIN VIEW CALIFORNIA

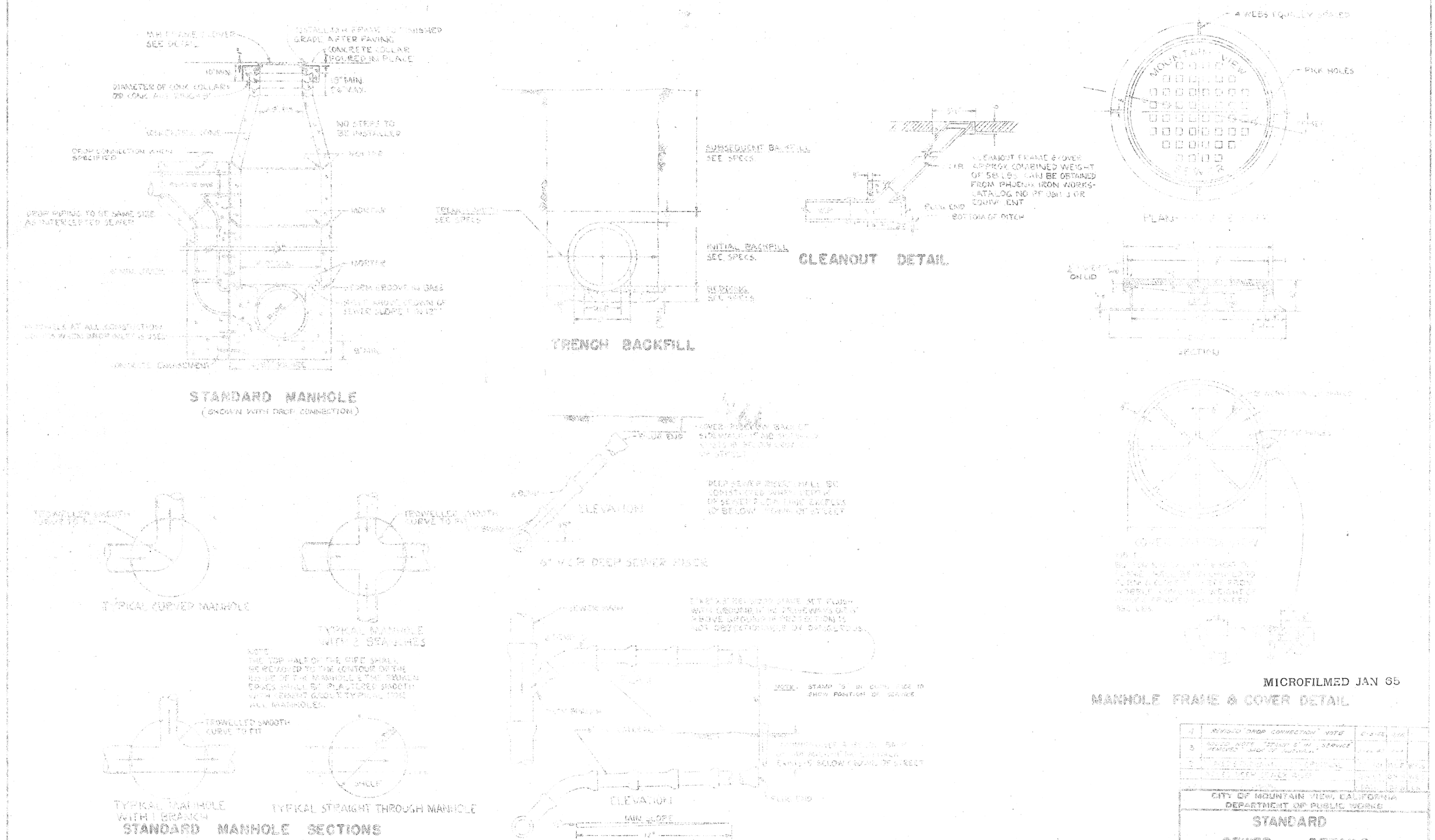
RUTH and GOING
Consulting Civil Engineers
919 The Alameda, San Jose, Calif. — 914-A Thirteenth St., Modesto, Calif.

Drawn: JCL
Ckd: JRB
Date: FEB 5, 1964
Revised: FEB 28, 1964

Reg. C.E. No. 10077

Scale: AS SHOWN
Job No.: 12,705
SHEET 1 of 4

File #



MICROFILMED JAN 65

4	REVISED "DROP CONNECTION" NOTE		
3	ADDED NOTE "STAMP 5" IN SERVICE REMOVED "SIDE OF SIDEWALK"		
2			
1			

CITY OF MOUNTAIN VIEW, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

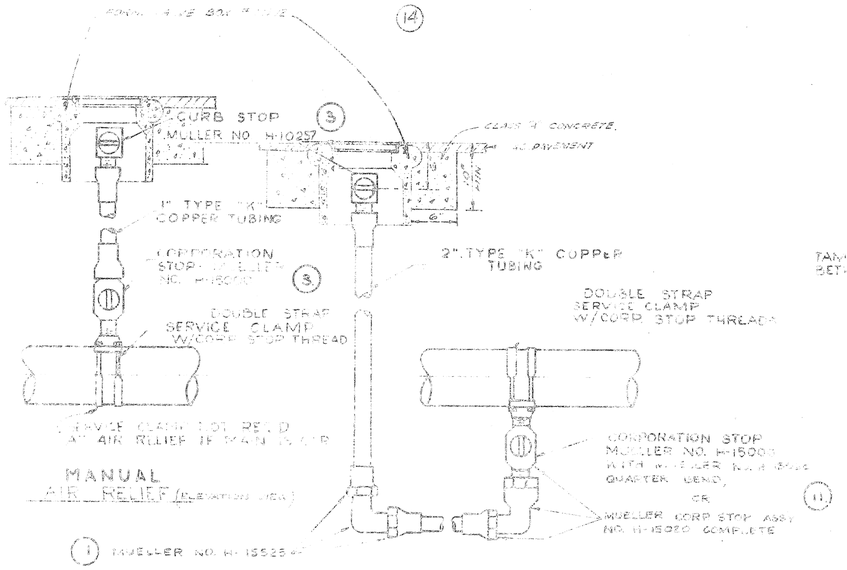
STANDARD
SEWER DETAILS

SCALE: NONE | DATE: FEB 6 1961 | SHEET 2 OF 4

DES. YOUNG | APPROVED: RHP 4-27-64 | FIELD NOTES

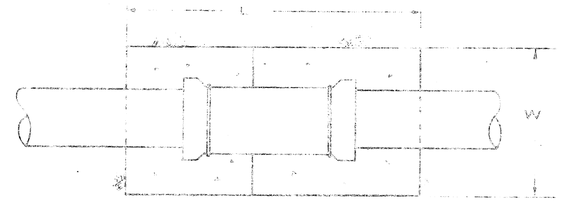
DR. | DIRECTOR OF PUBLIC WORKS | FILE NO. 12,705

Spoon #9 File #1397-2

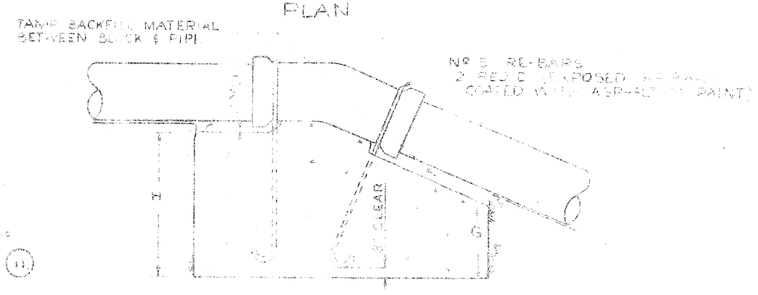


MANUAL AIR RELIEF (ELEVATION VIEW)

BLOW OFF (ELEVATION VIEW)

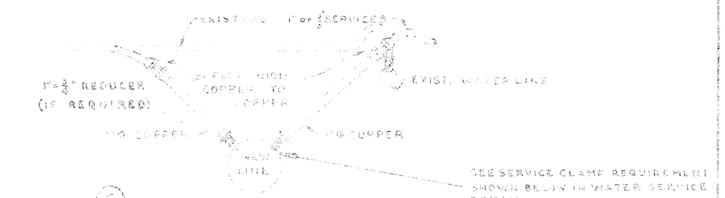


PLAN

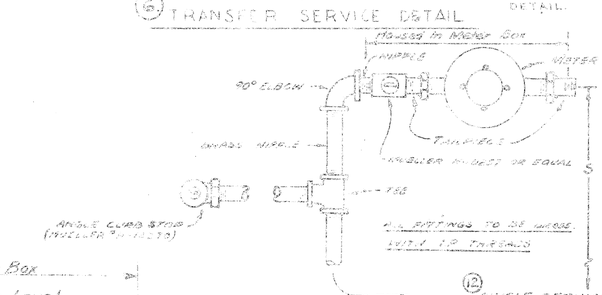


ELEVATION

THRUST BLOCK DETAIL-UPWARD THRUST

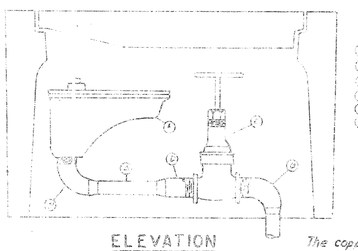


TRANSFER SERVICE DETAIL



METER SIZE	PIPING SIZE
3/4 & 1"	18"
1 1/2"	24"
1"	24"
1 1/2"	30"
2"	30"

SINGLE SERVICE CONNECTING TWO OR MORE METERS



ELEVATION

LIST OF FITTINGS

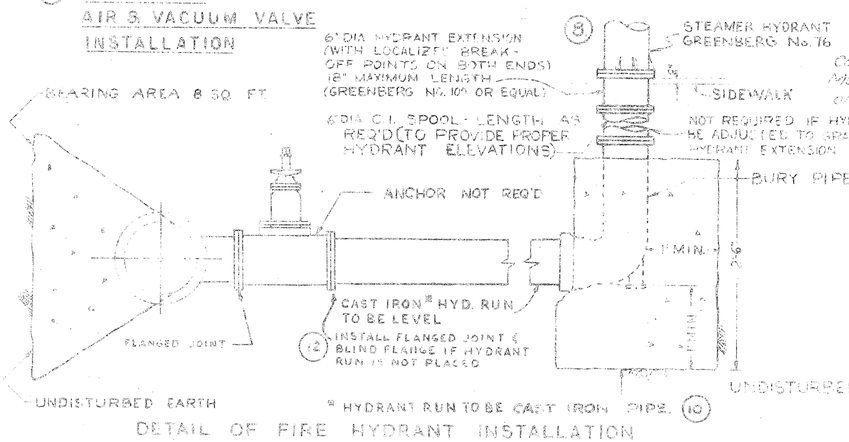
1. Seamless copper tubing, A.S.T.M. Class K, soft annealed (ASTM B-88)
2. 90° Elbow - copper to copper
3. Bronze ball valve 50, rising stem
4. T.C. Coupling - Copper to copper
5. Corporation stop - (Mueller H-15000)
6. Mu-Cracken Combination Air & Vacuum Relief Valve (For determination of size see Note #1. A 3/4" valve is the minimum allowable size.)

NOTES

1. Determination of size:
   The diameter of the water main in feet is the required size of the Mu-Cracken air & vacuum relief valve in inches.
   Example
   A 12" water main has a diameter of 1.0', therefore a 1.0" Mu-Cracken air and vacuum relief valve is required.
2. Use same diameter seamless copper tubing as required size of air & vacuum relief valve.

The copper tubing shall at all points be clear from the Corporation Stop to the air & vacuum relief valve

(9) AUTOMATIC AIR & VACUUM VALVE INSTALLATION

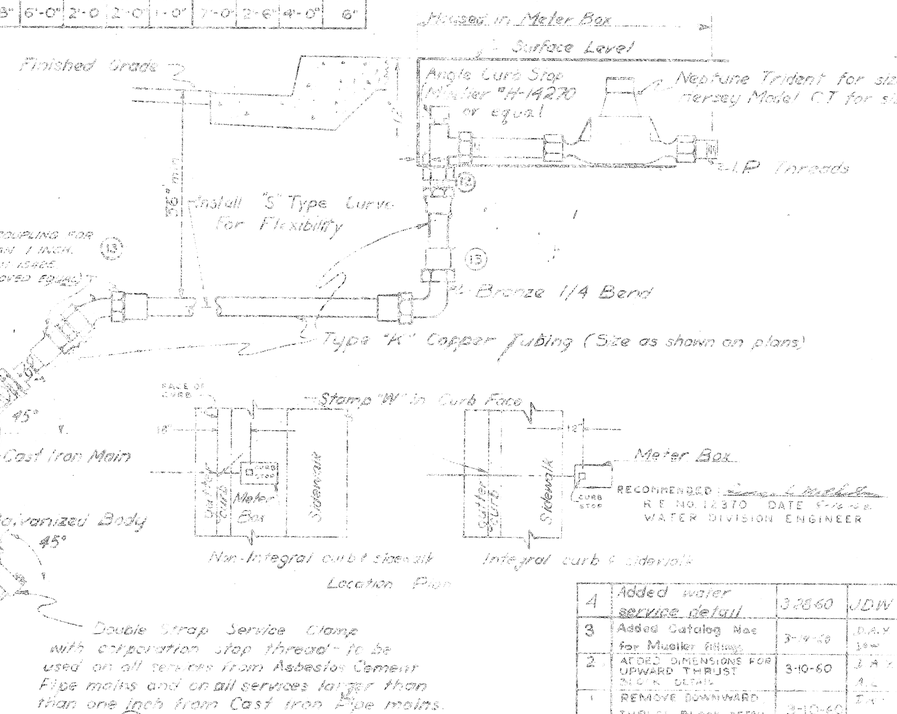


* HYDRANT RUN TO BE CAST IRON PIPE.

DETAIL OF FIRE HYDRANT INSTALLATION

THRUST BLOCK DIMENSIONS~UPWARD THRUST

TYPE SIZE	11 1/4° BEND				22 1/2° BEND				45° BEND			
	L	W	H	G	L	W	H	G	L	W	H	G
6"	2'-0"	2'-0"	1'-0"	9"	2'-0"	2'-0"	2'-0"	1'-0"	3'-0"	2'-0"	2'-0"	6"
8"	2'-0"	2'-0	1'-0"	9"	3'-0"	2'-0"	2'-0"	1'-0"	4'-6"	2'-0"	3'-0"	6"
10"	3'-0"	2'-0	2'-0"	1'-8"	4'-0"	2'-0"	2'-0"	1'-0"	6'-0"	2'-0"	3'-6"	8"
12"	3'-0"	2'-0"	2'-0"	1'-8"	6'-0"	2'-0	2'-0"	1'-0"	7'-0"	2'-6"	4'-0"	6"



RECOMMENDED: [illegible] & modified
R.E. NO. 12370 DATE [illegible]
WATER DIVISION ENGINEER

(5) WATER SERVICE

MICROFILMED JAN 65

NO	REVISION	DATE	BY
15	REVISED FIRE HYDRANT INST. NOTES	11-10-65	R.H.M.
14	REVISED VALVE BOX DETAIL ON BLOW-OFF	3-3-65	[illegible]
13	REVISED DIAGRAM AND CALLOUT FOR 3/4" & 1" SERVICE PIPES OR SERVICE TUBING	3-3-65	[illegible]
12	ADDED SINGLE SERVICE CONNECTING TWO OR MORE METERS (BLIND FLANGE ON 1" DIR. VALVE), REV. ANGLE CURB STOP	6-13-62	R.H.M.
11	ADDED PIPING CALLOUT TO BLOW OFF ASSEMBLY	8-20-62	[illegible]
10	ADDED "CAST IRON PIPE" TO HYDRANT RUN DETAIL	11-1-61	R.H.M.
9	ADDED AUTOMATIC AIR & VACUUM VALVE INSTALLATION	7-24-61	R.H.M.
8	REVISED F.H. DETAIL	5-26-61	D.M.H.
7	DELETED BRONZE 1/4 BEND FOR 1" SETTI OR SMALLER	12-9-60	[illegible]
6	ADDED TRANSFER SERVICE DETAIL	6-17-60	D.M.H.
5	REVISED WATER SERVICE DETAIL	5-25-60	W.D.W.
4	Added water service detail	3-28-60	J.D.W.
3	Added Catalog Nos for Mueller fittings	3-9-60	D.A.Y.
2	ADDED DIMENSIONS FOR UPWARD THRUST BLOCK DETAIL	3-10-60	J.A.Y.
1	REMOVE DOWNWARD THRUST BLOCK DETAIL	3-10-60	J.A.Y.

CITY OF MOUNTAIN VIEW, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

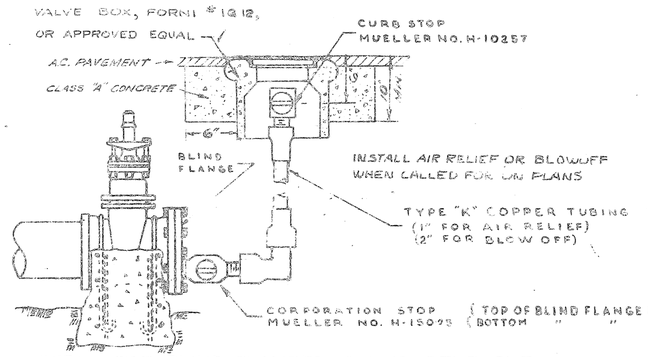
STANDARD DETAILS FOR WATER MAINS

SCALE: NONE | DATE: 1-60 | SHEET 3 OF 4

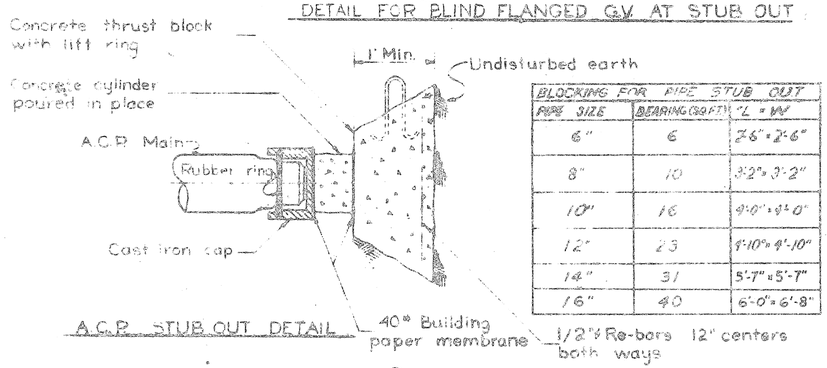
DES. [illegible] | APPROVED: RHF 4-27-64 | FIELD NOTES
DR. J.D.W.
CHK. [illegible] | ASST. DIRECTOR OF PUBLIC WORKS | 11701 | FILE NO. 12.705

Sheet 83

File #1397-3

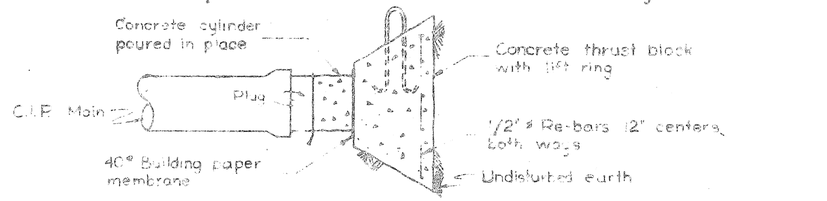


DETAIL FOR BLIND FLANGED G.V. AT STUB OUT

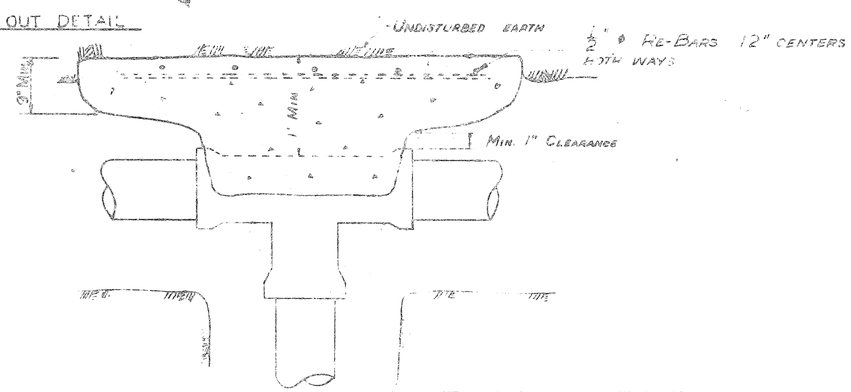


A.C.P. STUB OUT DETAIL

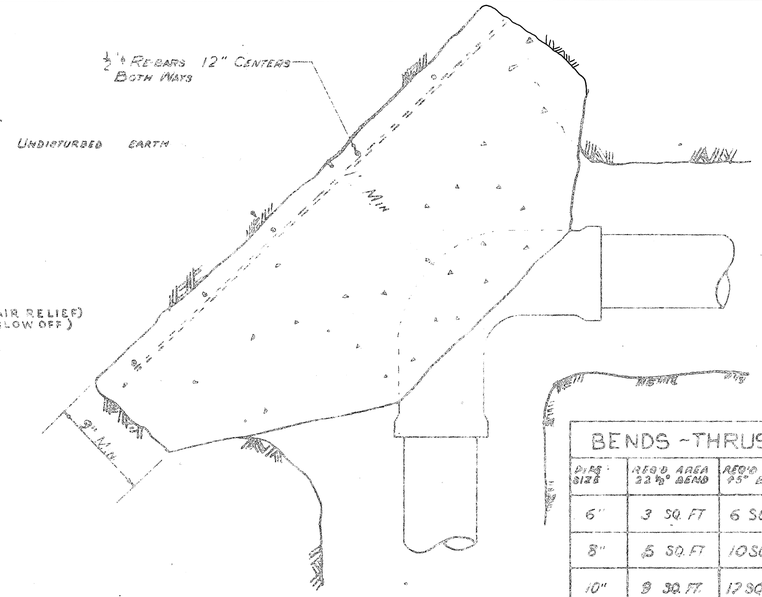
BLOCKING FOR PIPE STUB OUT		
PIPE SIZE	BEARING (SQ.FT)	"L" × "W"
6"	6	2'6" × 2'6"
8"	10	3'2" × 3'2"
10"	16	4'0" × 4'0"
12"	23	4'10" × 4'-10"
14"	31	5'-7" × 5'-7"
16"	40	6'-0" × 6'-8"



C.I.P. STUB OUT DETAIL



BLOCKING FOR PIPE TEES		
PIPE SIZE	BEARING (SQ.FT)	L × W
6"	8	2'10" × 2'-10"
8"	13	3'-7" × 3'-7"
10"	22	4'-8" × 4'-8"
12	31	5'-7" × 5'-7"
14"	41	6'-0" × 6'-10"
16"	53	6'-0" × 8'-10"

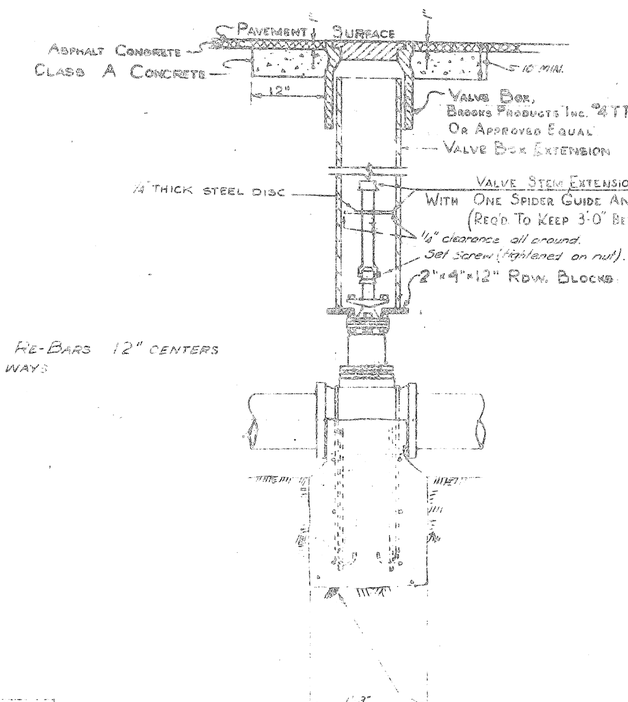


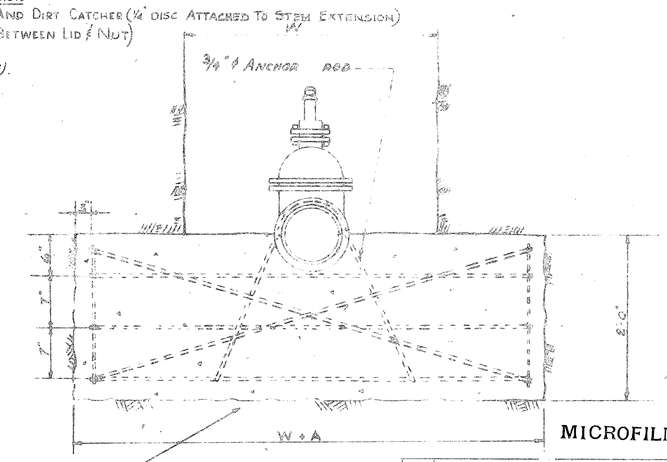
GENERAL NOTES

1. Re-bars 5/8" ϕ unless noted
2. Re-bars 3" clear from face of block
3. Thrust blocks shall be Class A concrete.
4. Exposed re-bars, anchor rods, and lift rings shall be coated with asphaltum paint.
5. Thrust and anchor block concrete must be clear of fitting ends, flanges, joints, valve bonnets, nuts and bolts, to the satisfaction of the Engineer.

BENDS - THRUST BLOCK DIMENSIONS *						
PIPE SIZE	REQ'D AREA 22 1/2° BEND	REQ'D AREA 25° BEND	REQ'D AREA 30° BEND	L × W 22 1/2° BEND	L = W 45° BEND	L = W 90° BEND
6"	3 SQ. FT	6 SQ. FT.	11 SQ. FT.	1'-9" × 1'-9"	2'-5" × 2'-5"	3'-4" × 3'-4"
8"	5 SQ. FT	10 SQ. FT.	19 SQ. FT.	2'-3" × 2'-3"	3'-2" × 3'-2"	4'-4" × 4'-4"
10"	9 SQ. FT.	17 SQ. FT.	31 SQ. FT.	3'-0" × 3'-0"	4'-1" × 4'-1"	5'-7" × 5'-7"
12"	12 SQ. FT.	24 SQ. FT.	44 SQ. FT.	3'-5" × 3'-5"	4'-11" × 4'-11"	6'-0" × 7'-4"
14"	16 SQ. FT.	32 SQ. FT.	59 SQ. FT.	4'-0" × 4'-0"	5'-8" × 5'-8"	6'-0" × 9'-10"
16"	21 SQ. FT.	42 SQ. FT.	77 SQ. FT.	4'-7" × 4'-7"	6'-0" × 7'-0"	6'-0" × 12'-10"

* FOR HORIZONTAL & VERTICAL DOWNWARD THRUST





VALVE ANCHORS	
VALVE SIZE	"A"
6"	1'-6"
8"	2'-6"
10"	4'-0"
12"	6'-0"
14"	7'-8"
16"	10'-0"

RECOMMENDED: [signature]
R.E. NO. 12370 DATE 8-[illegible]
WATER DIVISION ENGINEER

NO	REVISION	DATE	BY
12	REVISED VALVE BOX TYPE	8-15-62	B.M.H.

NO.	REVISION	DATE	BY
11	REDREW VALVE BOX & CALLED OUT FORM # 1612 REVISED SPIDER GUIDE & DIRT CATCHER	6-3-62	A.H.A.
10	ADDED NOTE 5 IN GENERAL NOTES.	6-15-62	A.H.A.
9	CHANGED POSITION OF CORP STOP IN BLIND FLANGE	3-26-62	A.H.A.
8	ADDED 14" & 16" THRUST BLOCKS. REVISED G.V. STUB OUT DETAIL	7-25-61	B.M.H.
7	REVISED G.V. STUB OUT DETAIL	5-26-61	B.M.H.
6	Changed valve box on equipment detail	6-8-60	J.D.W.
5	Added detail for C.I.P. Plug assembly	4-6-60	J.D.W.
4	Added detail for A.C.P. cap assembly	4-4-60	J.D.W.
3	Added Valve Box & Valve Box Extension	2-25-60	J.D.W. DAY
2	Added L=W For 22 1/2° & 45° Bends	2-5-60	DAY J.D.W.
1	Added Steel to Blocking For Tees & Bends	2-5-60	DAY J.D.W.

CITY OF MOUNTAIN VIEW, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

STANDARD DETAILS FOR WATER MAINS

SCALE: NONE | DATE: 12-22-59 | SHEET 4 OF 4

DES. YOUNG
DR. J.D.W.
CH. D.T.F.
CK. A.L.

APPROVED: R.H.P. 4-27-64
ASST. DIRECTOR OF PUBLIC WORKS
DATE 1-13-66 | BOOK NO. 11701

FIELD NOTES

FILE NO. 12,105

MICROFILMED JAN 65

File #1397-4