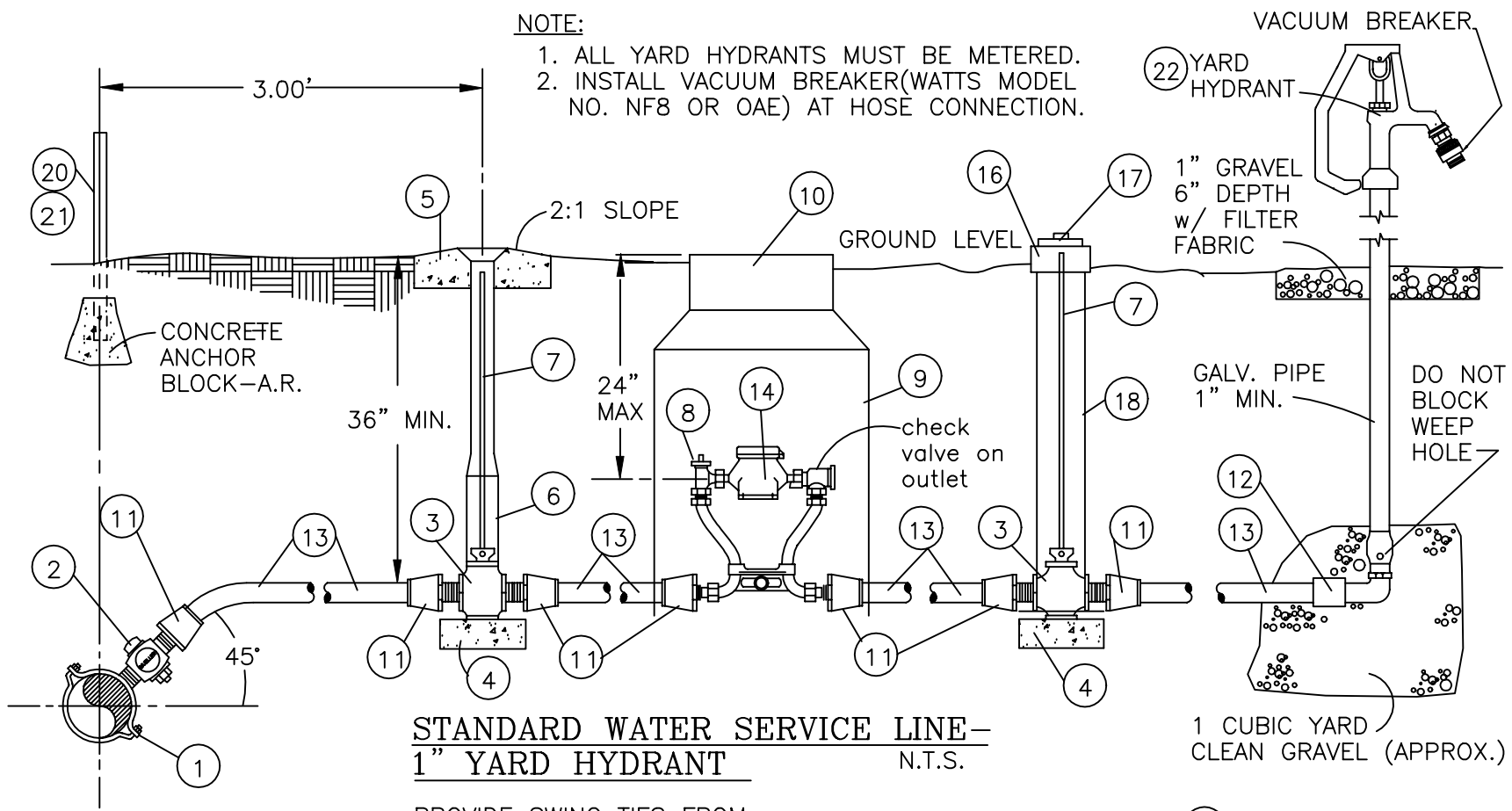


TITLE: YARD HYDRANT SERVICE (Individually metered) SHEET 1 OF 2
 Customer Name & Location: _____
 Work Order No.: _____
 Designed by: NTUA
 Drawn By: RKBegay
 Appr. Engr: _____
 Exhibit no.: _____
 Scale: N.T.S.
 Date: 1/96
 Date: 7/23/96
 Date: _____
 NTUA STANDARD NO. WS-4
 ACAD File name: yard-hyd.dwg

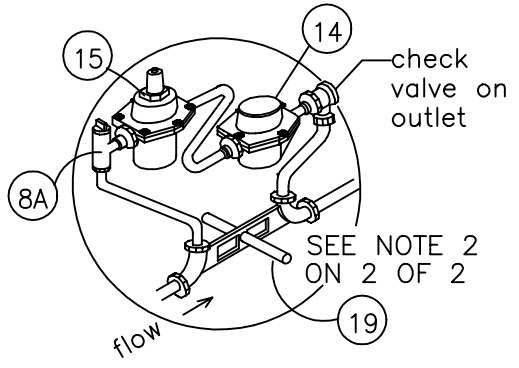


NOTE:
 1. ALL YARD HYDRANTS MUST BE METERED.
 2. INSTALL VACUUM BREAKER(WATTS MODEL NO. NF8 OR OAE) AT HOSE CONNECTION.

**STANDARD WATER SERVICE LINE -
 1" YARD HYDRANT**

PROVIDE SWING TIES FROM NEAREST PERMANENT STRUCTURE ON "AS-BUILT" DRAWINGS.

AS-BUILT LOCATION OF TAP	
PROJECT NAME	
PROJECT NO.	
SHEET NO.	
LINE NO.	
STATION NO.	
SYSTEM	
RELATED W.O. NO'S.	



ALL MATERIALS MUST HAVE A MINIMUM OF 160 psi WORKING PRESSURE CAPABILITY. MINIMUM TEST PRESSURE TO BE 160psi FOR 2 HOURS WITH NO LEAKAGE IF TESTED w/ NEW MAINLINE. DATE PERFORMED_____. IF NOT TESTED WITH NEW MAINLINE, SYSTEM PRESSURE OF ____ USED, WITH NO LEAKAGE OBSERVED FROM UNBURIED JOINTS/CONNECTIONS/SADDLES FOR 2 HOURS, DATE PERFORMED____. DISINFECTION DATE____ LAB SAMPLE NO.____INITIALED____

MATERIAL LIST						
ITEM	QUAN.	DESCRIPTION	SEE NOTE	PLANT ACCT. NO.	PROPERTY UNIT NO.	STOCK ITEM NO.
1	1	SADDLE,BRASS,1" FIPTxAPPROPRIATE PIPE TYPE, O.D., and LINE PRESSURE	4,5,6	3453	645	
2	1	CORPORATION STOP, 1" MIPT x 1" FIPT. MUELLER H-10046, OAE		3453	645	0665507
3	1	CURB STOP,1" FIPTx1" FIPT,MINNEAPOLIS PATTERN WITH RESILIENT O-RINGS, MUELLER H-10287, OAE	11,13	3453	645	0665823
4	*A.R.	CONCRETE BLOCK OR BRICK	8	3453	645	
5	A.R.	CONCRETE COLLAR 18" SQUARE x 4" THICK, W/ #4 REBARS E.W.O.C.		3453	645	
6	1	CURB VALVE BOX, 54" EXTENSION TYPE, MUELLER H-10302, WITH 2" x 1-1/2" BUSHING		3453	645	0664395
7	2	STATIONARY ROD (CURB STOP OPERATOR), 33" LONG (MUELLER PART #84338), SECURED TO THE CURB STOP WITH A COTTER PIN.		3453	645	0664410
8	1	COPPERSETTER WITH VALVED 12" RISER, 1" FIPT END CONNECTORS FOR 5/8"x3/4" METER, FORD NO. VH72-12W-FF-44, WITH 1" IP UNION NUT/SWIVEL ASSEMBLY CONNECTION AND BRACING EYE,OAE	7	3463	648	0665893
8A	1	TANDEM COPPERSETTER WITH VALVED 12" RISERS, 1" FIPT END CONNECTORS FOR 5/8"x3/4" METER(FORD NO. TVH72-12W-FF-44, OAE) WITH TWO REGULATOR ADAPTERS FOR THE PRV.	10	3463	648	0665895
9	1	METER CAN 20" I.D. x 30" LONG 0.450 THICK, PVC CLASSIFICATION 12344 PER ASTM D-1784, SONOLOC BROCHURE NO. 2706, OAE	8	3463	648	0664403
10	1	METER BOX COVER WITH DOUBLE LID (FROST PLATE), FOR 20" LD. CAN, 11-1/2" MINIMUM LID OPENING CASTING M-70		3463	648	0664403
11	7	INSTA-TITE FITTINGS, 1" MIPT x 1" STAB FOR ASTM D-2239 P.E. PIPE, MUELLER H-15426		3453	645	0664711
12	1	CONNECTOR/ADAPTER, 1" MIPT x APPROPRIATE PIPE TYPE AND O.D.	9	3453	645	
13	A.R.	PIPE, 1" P.E., ASTM D-2239. SIDR 7, 200 PSI, 100 FEET MAXIMUM TOTAL LENGTH	10,13	3453	645	0660148
14	1	METER, POSITIVE DISPLACEMENT, 5/8"x3/4" (PROVIDED BY N.T.U.A.)		3453	480	
15	1	PRV, 3/4", WILKENS 600 OR WATTS 25 AUB, 3/4" FIPT, 6" LONG	10	3453	645	0665865
16	1	ADAPTER, 3", HUB x FIPT, PVC-DWV, ASTM D-2665	11	NA	NA	0676233
17	1	CLEANOUT PLUG, 3", MIPT, PVC-DWV, ASTM D-2665	11	NA	NA	0674655
18	1	RISER, 3" x 36" LONG, PVC-DWV, ASTM D-2665	11	NA	NA	0676058
19	1	STABILIZER, 1/2"O.D. x 12" LONG PIPE, PVC, SCH. 40		NA	NA	
20	A.R.	BLUE CARSONITE MARKER POST	12	3453	645	00665160
21	A.R.	WATERLINE WARNING DECAL		3453	645	00664715
22	1	HYDRANT, FROST FREE, 1"x6', MERRIL MFG.;MODEL NO. 7503,OAE		3453	645	00664941

*A.R.= AS REQUIRED

MANUFACTURER & SIZE INSTALLED:

CURB STOP: _____
 IND. PRV: _____
 WATER METER: SENSUS-provided by NTUA
 METER SERIAL NO.: _____

NOTES:

- ON YARD HYDRANT INSTALLATION, USE COPPERSETTER w/ ANGLE CHECK VALVE ON OUTLET.
- IF PRESSURE IS GREATER THAN 70 PSI AT METERING POINT INSTALL TANDEM COPPERSETTER w/ INDIVIDUAL PRV. (ITEM 8A)
- 5/8"x3/4" METER FLOW RATES: 1-20 GPM
- 1" METER FLOW RATES: 3-50 GPM

TITLE: MATERIAL LISTING: YARD HYDRANT SERVICE SHEET 2 OF 2

Customer Name & Location

Work Order No.

Designed by:
NTUA

Drawn By:
RKBegay

Appr. Engr:

Exhibit no.
C-1

Scale:
N.T.S.

Date:
1/96

Date:
3/7/96

Date:

NTUA STANDARD NO.
WS-4a

ACAD File name
YARDMATL.DWG

