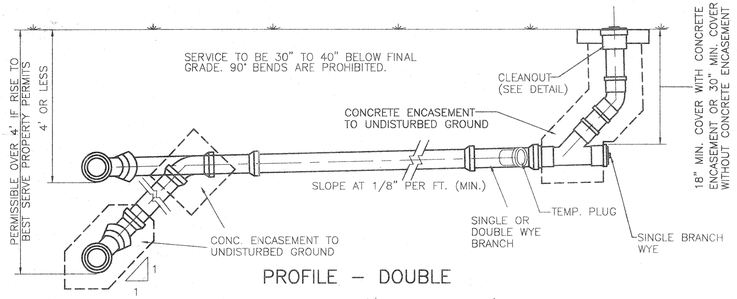
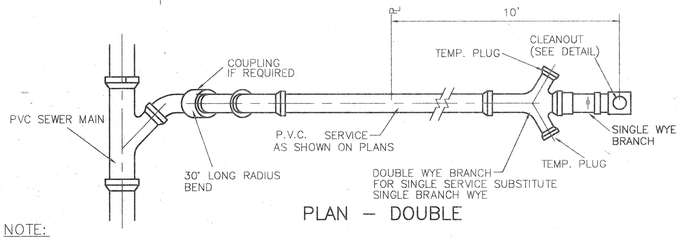


PROFILE – DOUBLE



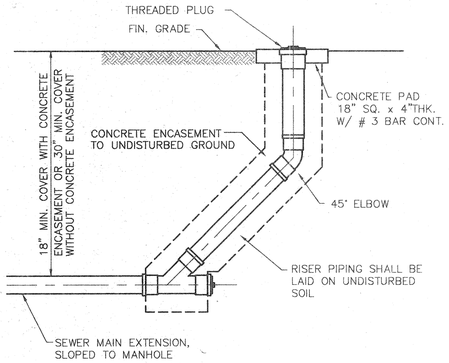
PLAN – DOUBLE

NOTE:

1. WHERE SERVICE CONNECTIONS EXCEED 8' IN DEPTH THE SERVICE WYE SHALL BE ENCASED IN CONCRETE.
2. SEWER SERVICE TO BE STAKED IN THE FIELD BY OR UNDER THE DIRECTION OF A REGISTERED ENGINEER AND/OR LAND SURVEYOR.

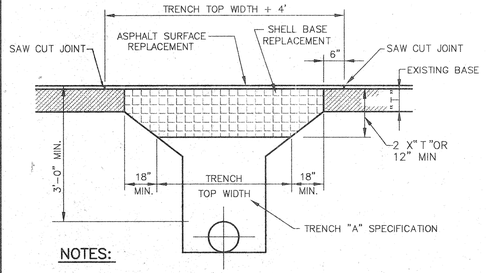
SANITARY SEWER SERVICE DETAIL

NTS



CLEAN OUT DETAIL

NTS



NOTES:

APPROVED BASE MATERIAL SHALL BE COMPACTED IN 6" LIFTS MAX., TO 98 % DENSITY (A.A.S.H.T.O. T-180)

ASPHALT CONCRETE PAVEMENT JOINTS SHALL BE MECHANICALLY SAWED.

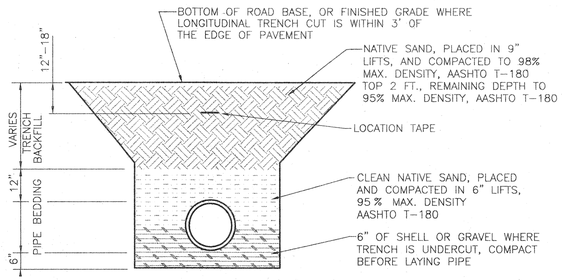
SURFACE TREATED PAVEMENT JOINTS SHALL BE LAPPED AND FEATHERED.

SURFACE MATERIAL SHALL BE CONSISTENT WITH EXISTING SURFACE. ASPHALT SHALL BE TYPE I OR II AND EQUAL OR GREATER IN THICKNESS. MINIMUM THICKNESS FOR ASPHALT SHALL BE 1-1/2"

CONCRETE PAVEMENT JOINTS SHALL BE MECHANICALLY SAWED TO CONFORM WITH ADJACENT PAVEMENT.

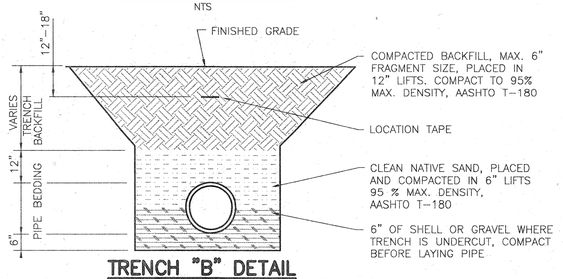
PAVEMENT RESTORATION DETAIL

NTS



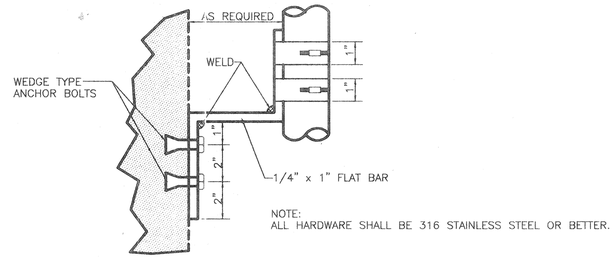
TRENCH "A" DETAIL

NTS



TRENCH "B" DETAIL

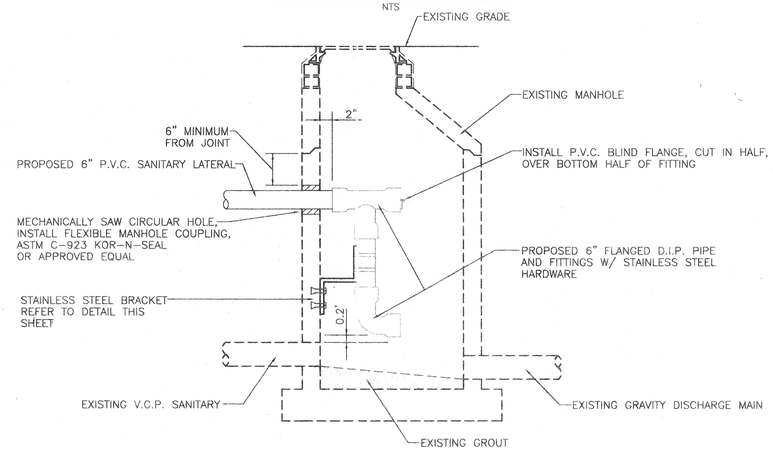
NTS



NOTE:
ALL HARDWARE SHALL BE 316 STAINLESS STEEL OR BETTER.

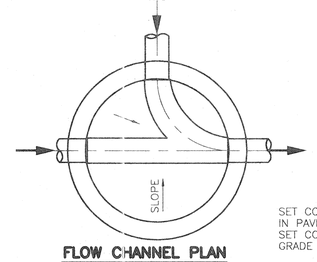
PIPE SUPPORT BRACKET

NTS



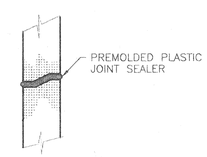
INSIDE DROP CONNECTION TO EXISTING MANHOLE

NTS



FLOW CHANNEL PLAN

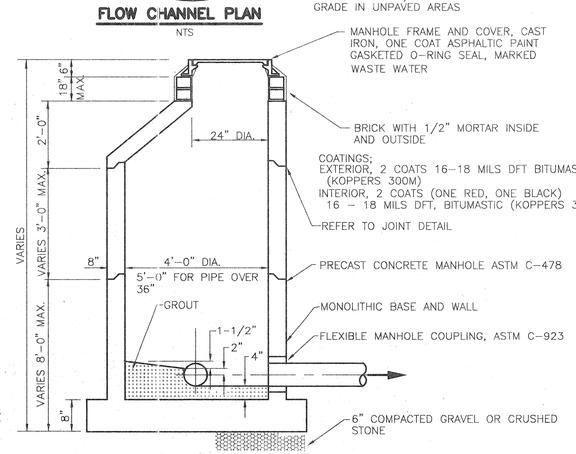
NTS



TYPICAL JOINT DETAIL

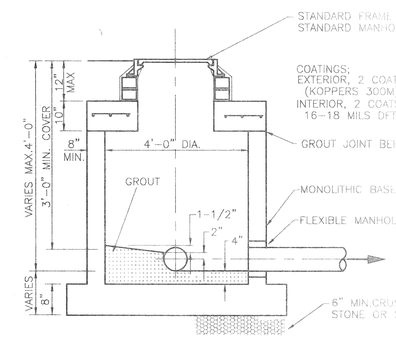
NTS

SET COVER FLUSH WITH PAVEMENT IN PAVED AREAS
SET COVER 2-1/2" ABOVE FINISHED GRADE IN UNPAVED AREAS



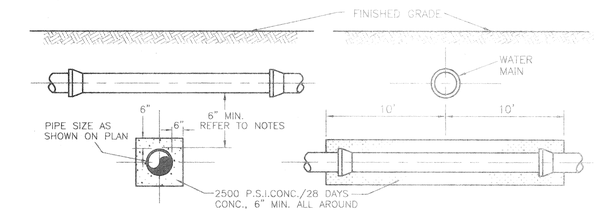
STANDARD MANHOLE

NTS



SHALLOW MANHOLE DETAIL

NTS



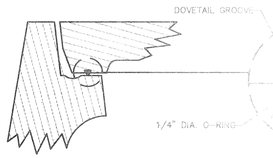
ENCASEMENT DETAIL

NTS

NOTES: (PROTECTION OF WATER SYSTEMS)

1. THE HORIZONTAL SEPARATION BETWEEN SANITARY SEWERS AND EXISTING OR PROPOSED WATER MAINS SHALL NOT BE LESS THAN 10 FEET. HOWEVER, SHOULD THE STIPULATED HORIZONTAL SEPARATION NOT BE POSSIBLE, THE SEWER PIPE SHALL BE COMPLETELY ENCASED (6 INCH MINIMUM) IN CONCRETE, CONSTRUCTED OF DUCTILE IRON PIPE WITH PRESSURE TIGHT JOINTS OR PROTECTED BY OTHER METHODS AS APPROVED BY THE ENGINEER.
2. UNLESS SEWER PIPES CROSS BELOW WATER MAINS WITH A VERTICAL SEPARATION OF 18 INCHES BETWEEN THE BOTTOM OF THE WATER MAIN AND TOP OF THE SEWER MAIN, SPECIAL PROTECTION SHALL BE PROVIDED. SAID PROTECTION SHALL CONSIST OF COMPLETELY ENCASING (6 INCH MINIMUM) THE SEWER MAIN IN CONCRETE FOR A MINIMUM DISTANCE OF 10 FEET EACH SIDE OF THE WATER MAIN OR INSTALLATION OF DUCTILE IRON PIPE WITH PRESSURE TIGHT JOINTS FOR THE SAME DIMENSION.
3. IF A CROSSING WHERE THE SEWER MAIN IS LAID OVER THE WATER MAIN, THEN THE ABOVE MENTIONED PRECAUTIONS SHALL BE OBSERVED. DISTANCE OF VERTICAL SEPARATION BETWEEN WATER MAINS.
4. USE OF D.I.P. IS THE PREFERRED METHOD AND SHALL BE SHOWN ON THE PLANS.

9/32"



TYPICAL MANHOLE RING & COVER DOVETAIL GROOVE DETAIL (U.S. FOUNDRY & MFG. CO.)

N.T.S.

MANHOLE SPECIFICATIONS:

1. MANHOLES SHALL COMPLY WITH A.S.T.M. SPECS. C-478, LATEST MANHOLE SECTIONS".
2. CONCRETE SHALL BE 4,000 P.S.I./28 DAY MINIMUM STRENGTH.
3. HEAVY DUTY MANHOLE RING (6" HIGH) AND COVER SHALL BE FRAME AND DOVETAIL GROOVED COVER (325 LB) TO ACCOMPANY FOUNDRY CORP., MIAMI, FLORIDA, OR APPROVED EQUAL, WITH COVER.
4. LEVELING BRICKS TO BE CLAY; MORTAR TO BE TWO PARTS SAND 1/4 PART HYDRATED LIME, WITH JOINTS FULL AND STRUCK FLUSH.
5. NO STEPS SHALL BE USED.
6. COMPLETELY FILL SPACE BETWEEN PIPES AND MANHOLE WALL 15 LB. EMBECO PER 100 LB. CEMENT.

FIELD BOOK NO. ____
PAGE ____ Sec.-Twp.-Rng. ____

PLOT DATE: MON JUN 14 11:45:18 1999 PJ PIDLOCK
CAD FILE: ANS56C12.DWG
P.Cr. x: ____ y: ____

BISHOP & ASSOCIATES
Consulting Engineers • Surveyors
AN EMPLOYEE OWNED COMPANY
78 SARASOTA CENTER BLVD. SARASOTA, FLORIDA 34240
813/371-6362 • Fax 813/378-3215

REVISED	BY	DATE	Q.C.	DATE	DESCRIPTION
	SWS	1/6/94	TJD	1/6/94	REV. PROJECT NO., NAME, AND OWNER
	D.N.S.	4-15-97			REV. TITTLE BLOCK
	PJ	6-14-99			RECORD DRAWING

REVISED	BY	DATE	Q.C.	DATE	DESCRIPTION

TASK	INITIALS	DATE
DESIGN	P.C.P.	4-19-93
DRAWN	P.S.N.	4-28-93
CHECKED	W.F.B.	
QUALITY CHK.		
HORZ. SCALE:	SHOWN	
VERT. SCALE:		

SEAL — ENGINEER OR SURVEYOR OF RECORD — DATE

CLIENT/TITLE: THE WATER CLUB
THE WATER CLUB
SANITARY