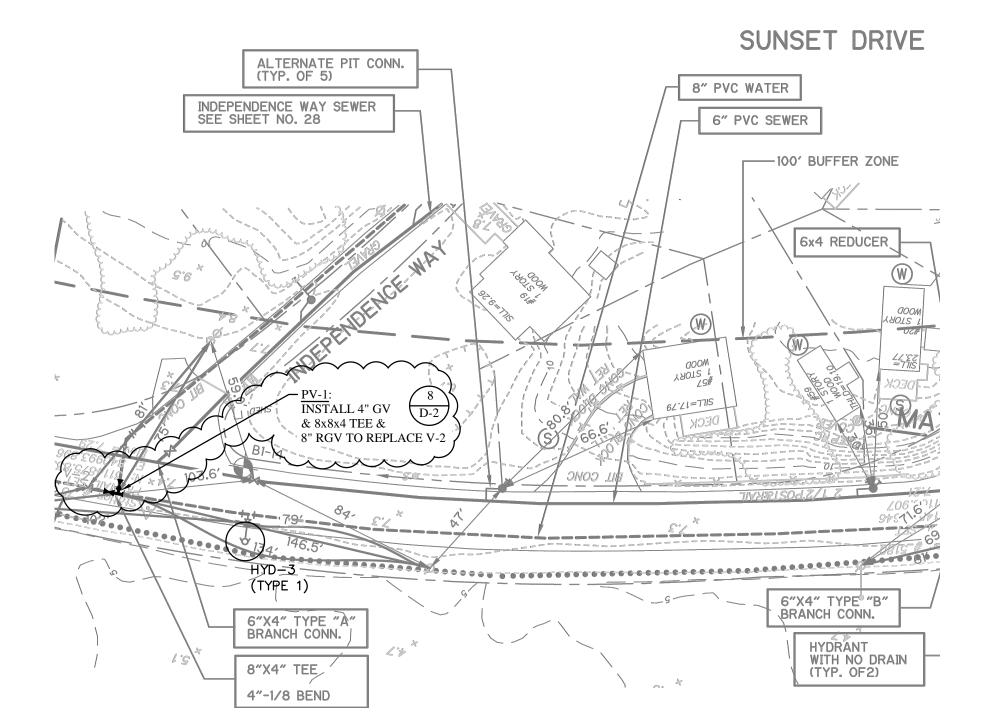
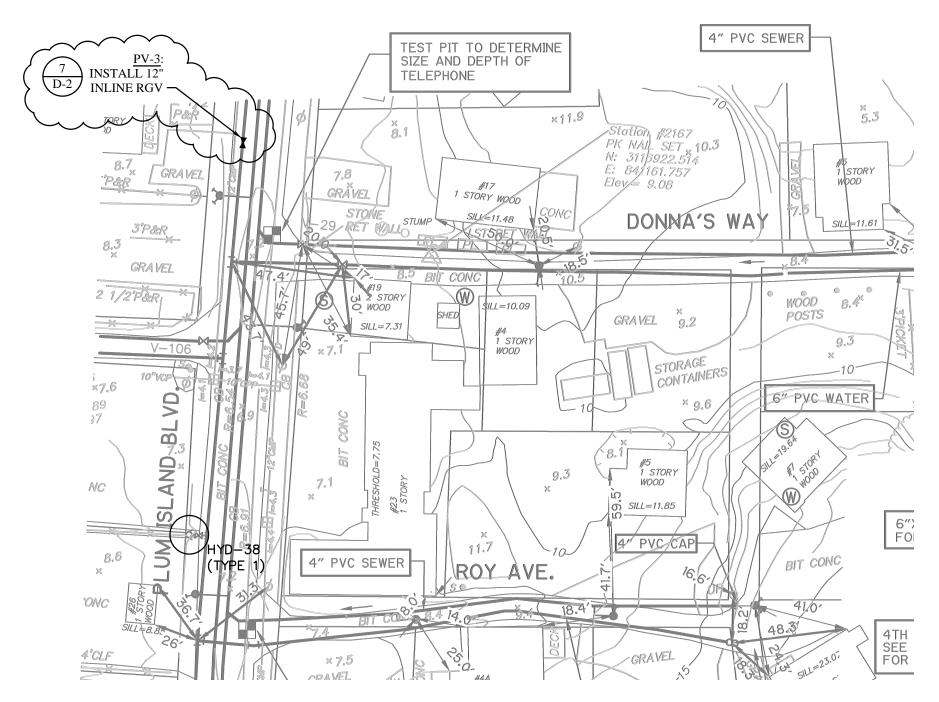
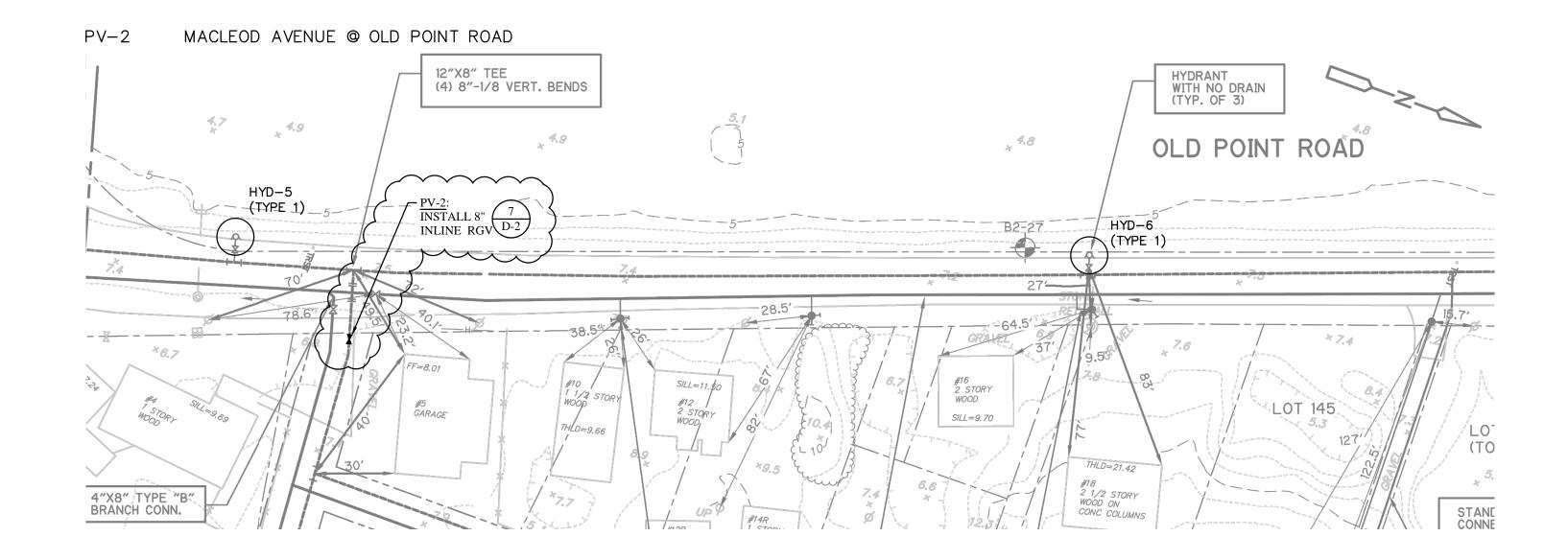
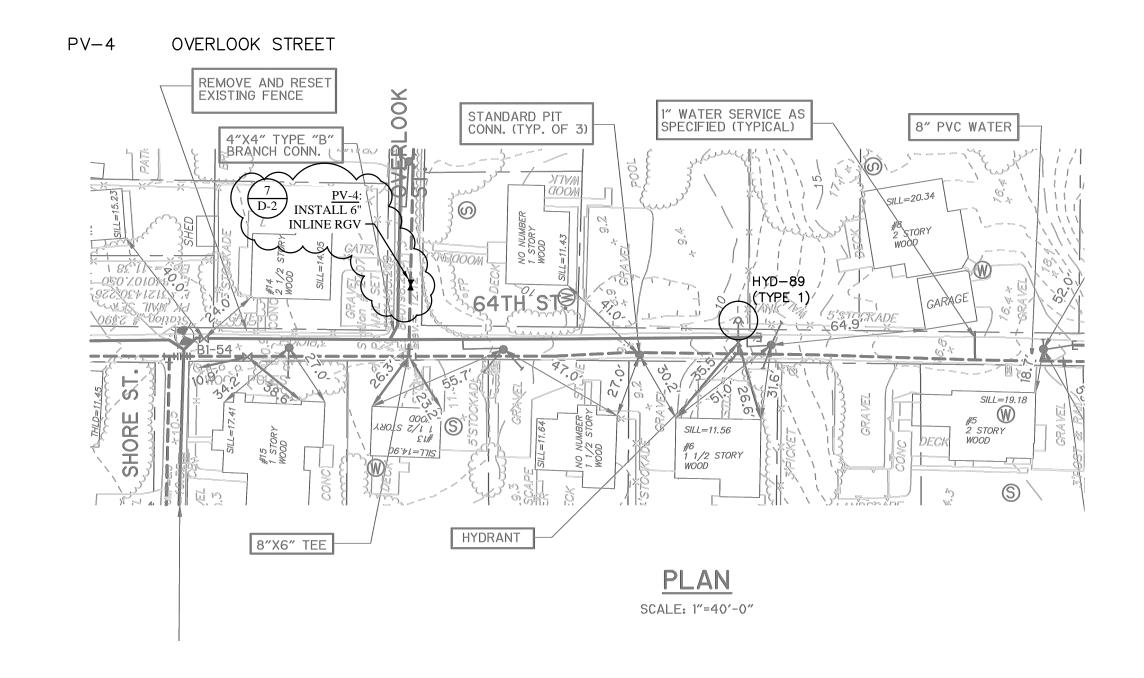
PV-1 INDEPENDENCE WAY @ SUNSET DRIVE



PV-3 DONNA'S WAY @ PLUM ISLAND TURNPIKE







N.T.S

NOTES:
"PLAN VIEWS"

"PLAN VIEWS" ARE THE
AS-BUILT RECORD DRAWINGS
FROM THE ORIGINAL
WATER-SEWER PROJECT.
SEE GENERAL NOTES.

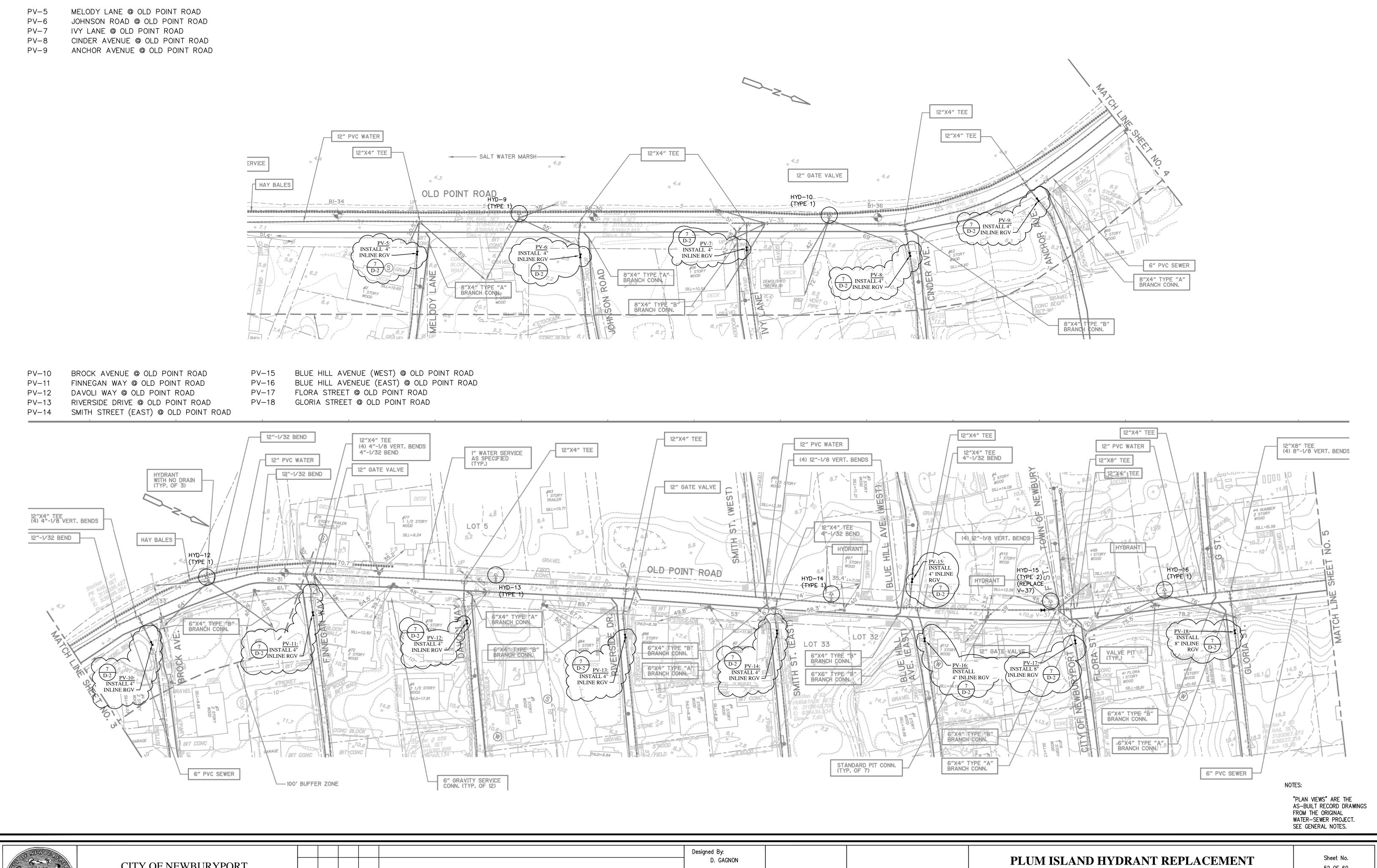


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					Designed By: D. GAGNON	
					Checked By: J.E. WHITE	
					J.E. WHITE	
Rev No	Date	Drawn	Chkd	Description	Date:	
				Revisions	APRIL 7, 2017	

PLUM ISLAND HYDRANT REPLACEMENT
PROPOSED VALVE LOCATION PLAN
PV-1 to PV-4

Sheet No. 51 OF 60





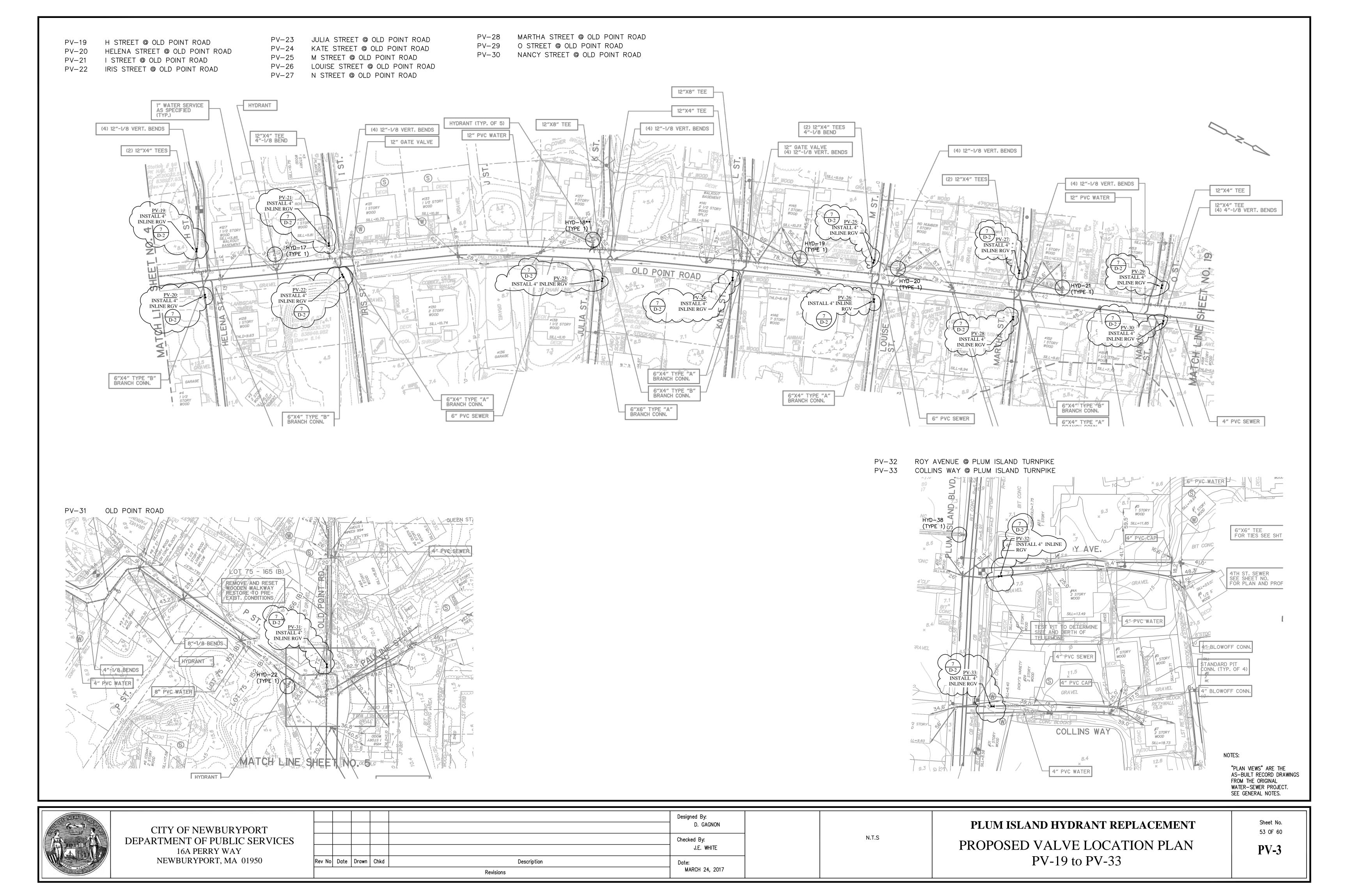
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NEWBURYPORT, MA 01950

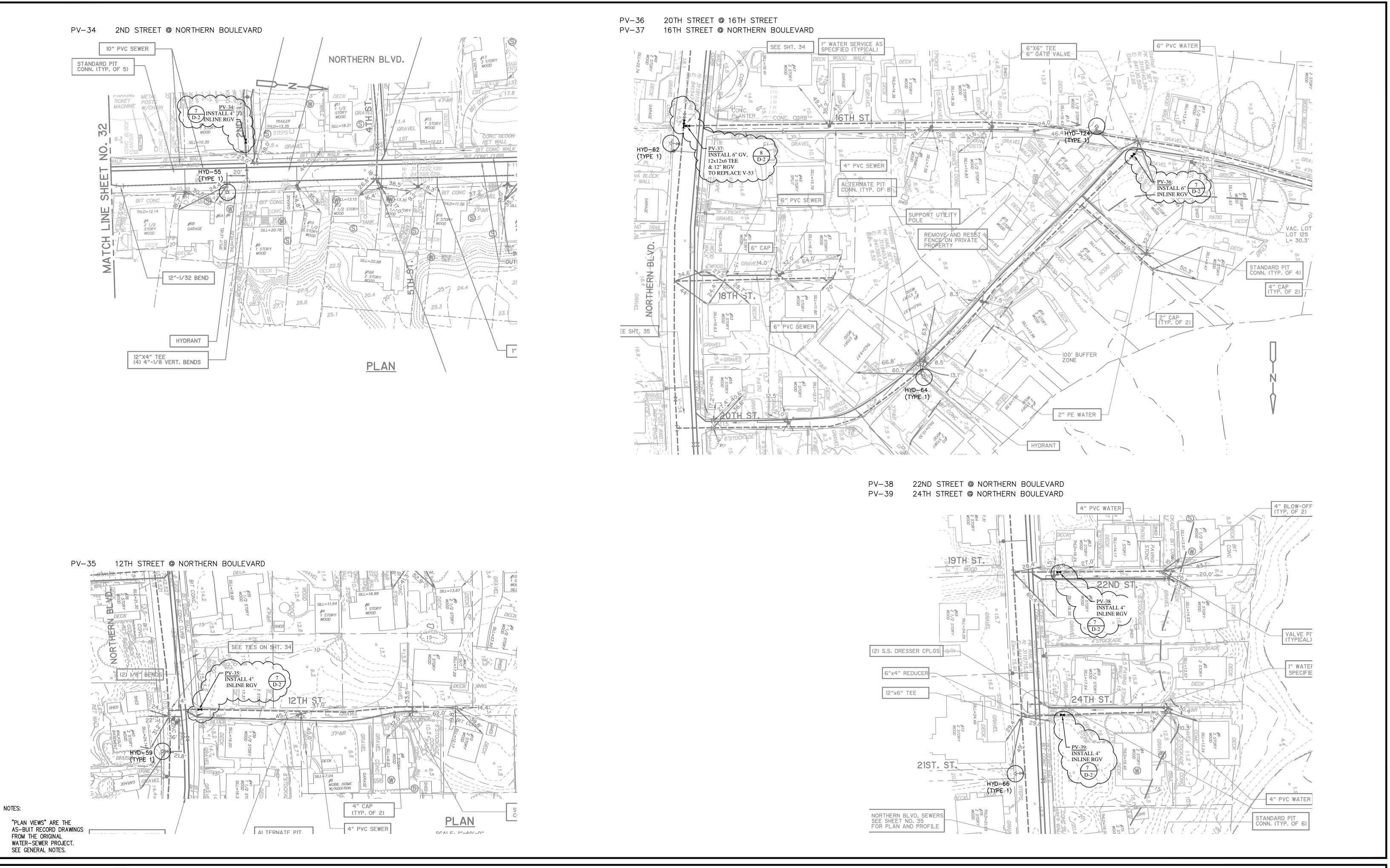
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					D. GAGNON	
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					J.E. WHITE	
ev No	Date	Drawn	Chkd	Description	Date:	
	Revisions				APRIL 7, 2017	

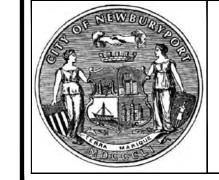
PLUM ISLAND HYDRANT REPLACEMENT
PROPOSED VALVE LOCATION PLAN
PV-5 to PV-18

N.T.S

Sheet No. 52 OF 60







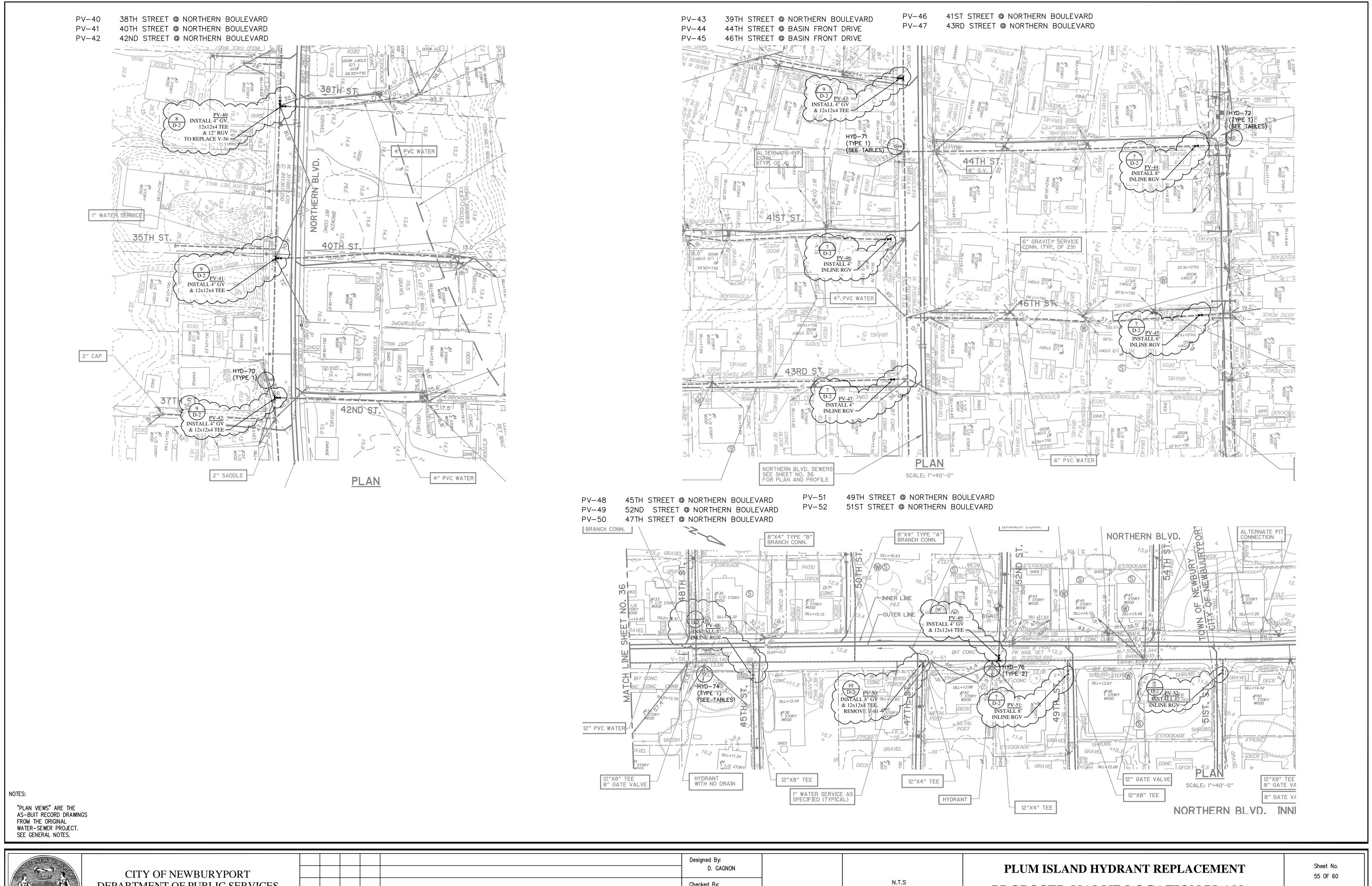
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		APRIL 7, 2017			

PLUM ISLAND HYDRANT REPLACEMENT
PROPOSED VALVE LOCATION PLAN
PV-34 to PV-39

N.T.S

Sheet No.
54 OF 60 **PV-4**



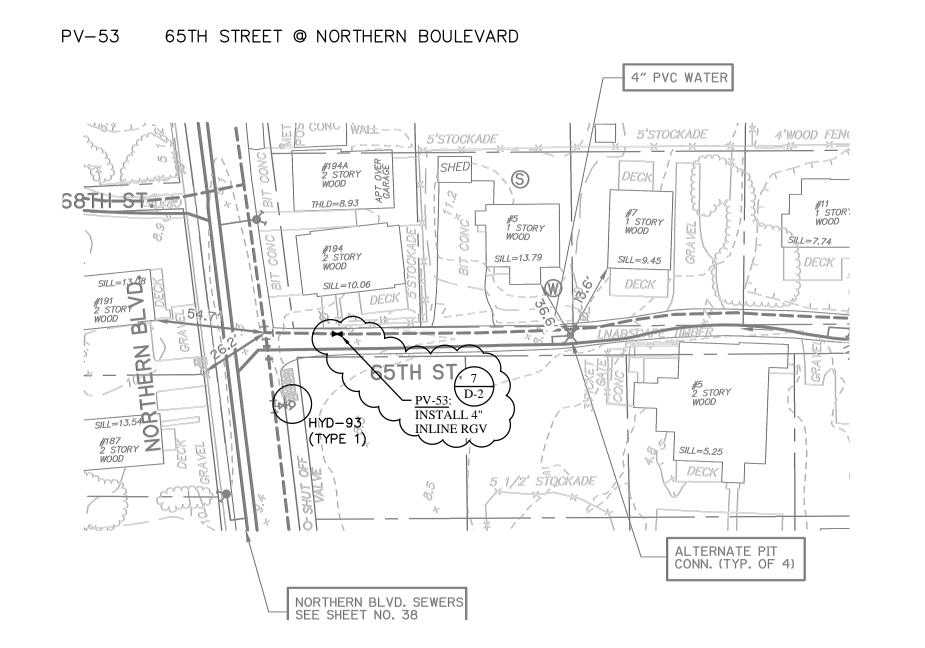


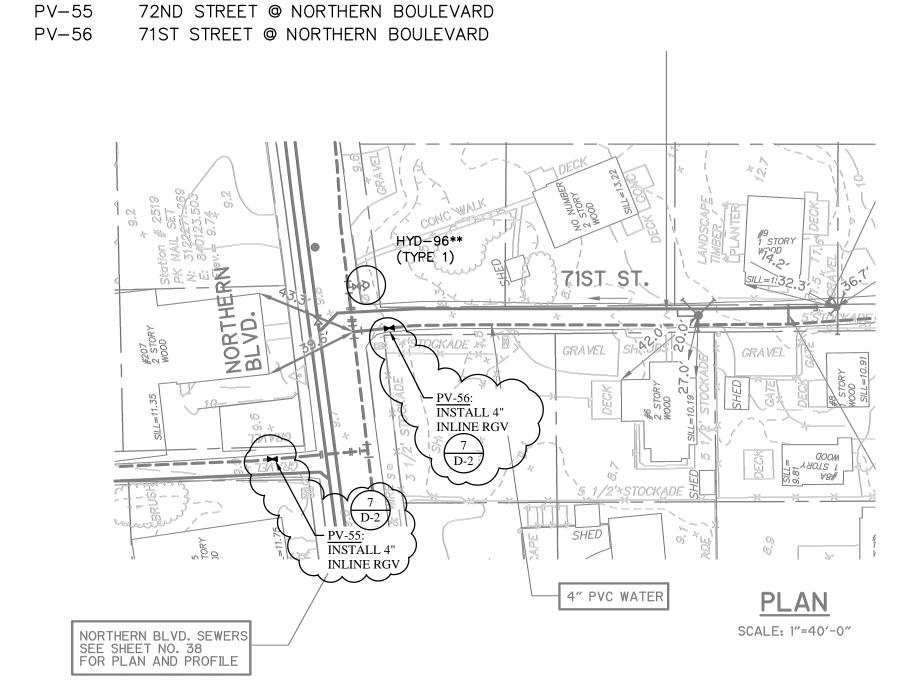
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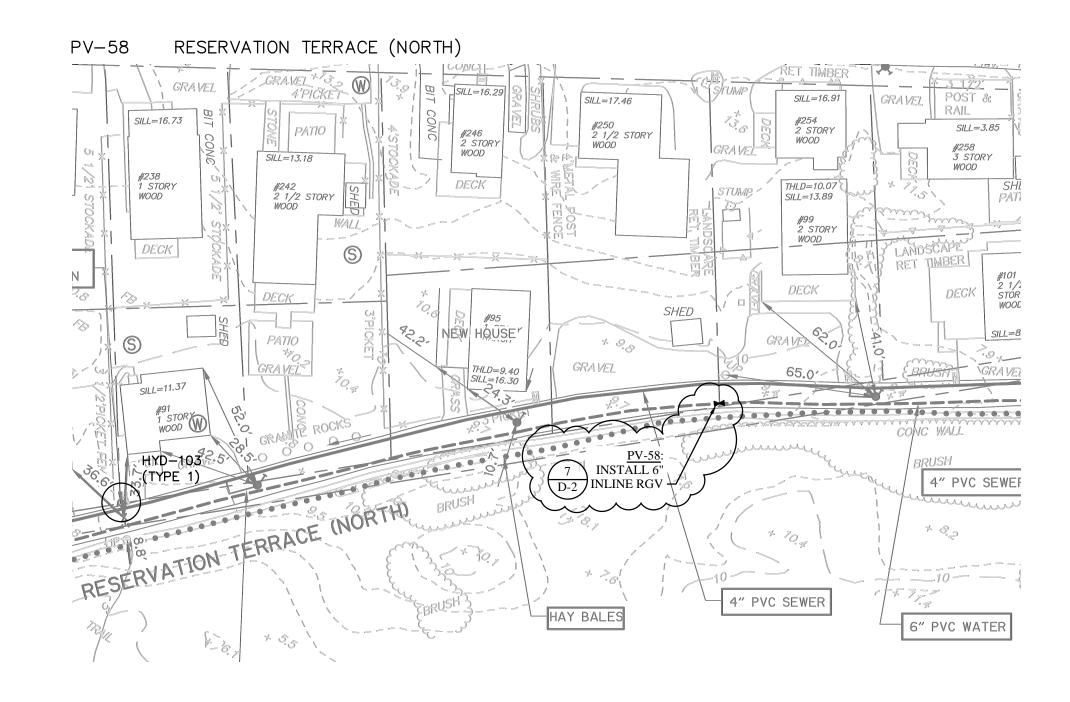
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		APRIL 7, 2017				

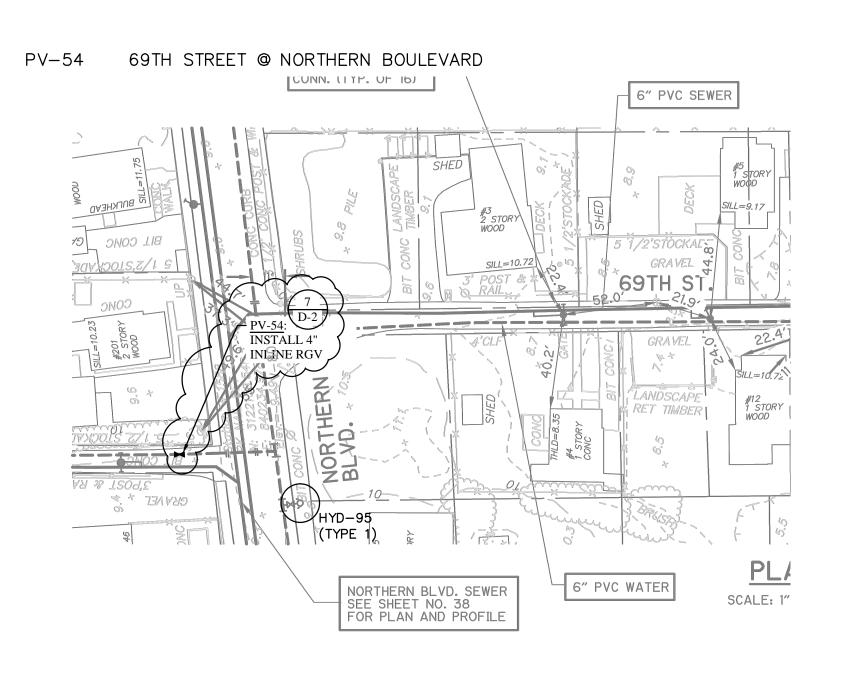
PROPOSED VALVE LOCATION PLAN PV-40 to PV-52

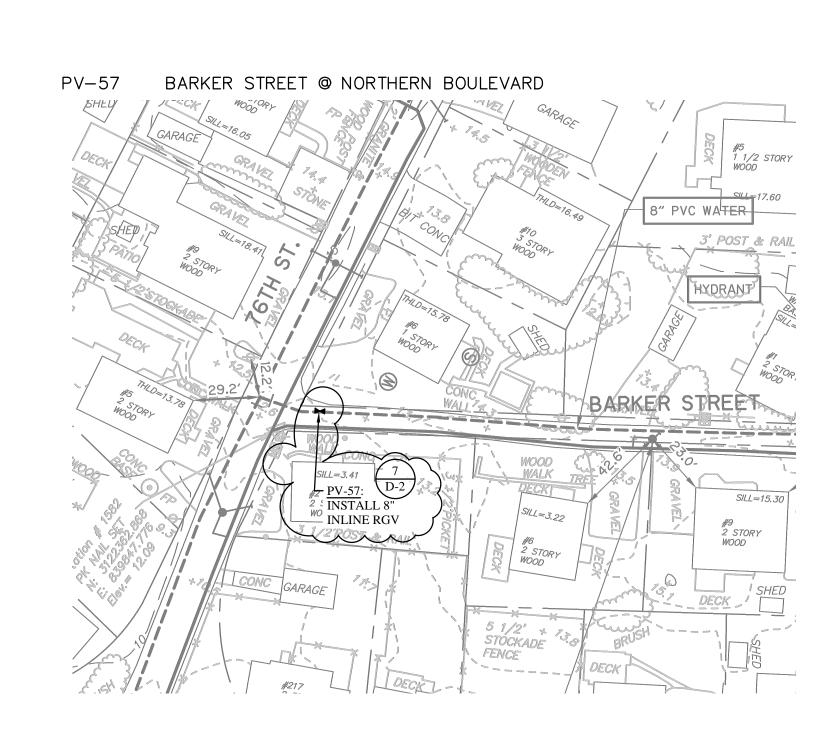
55 OF 60 **PV-5**

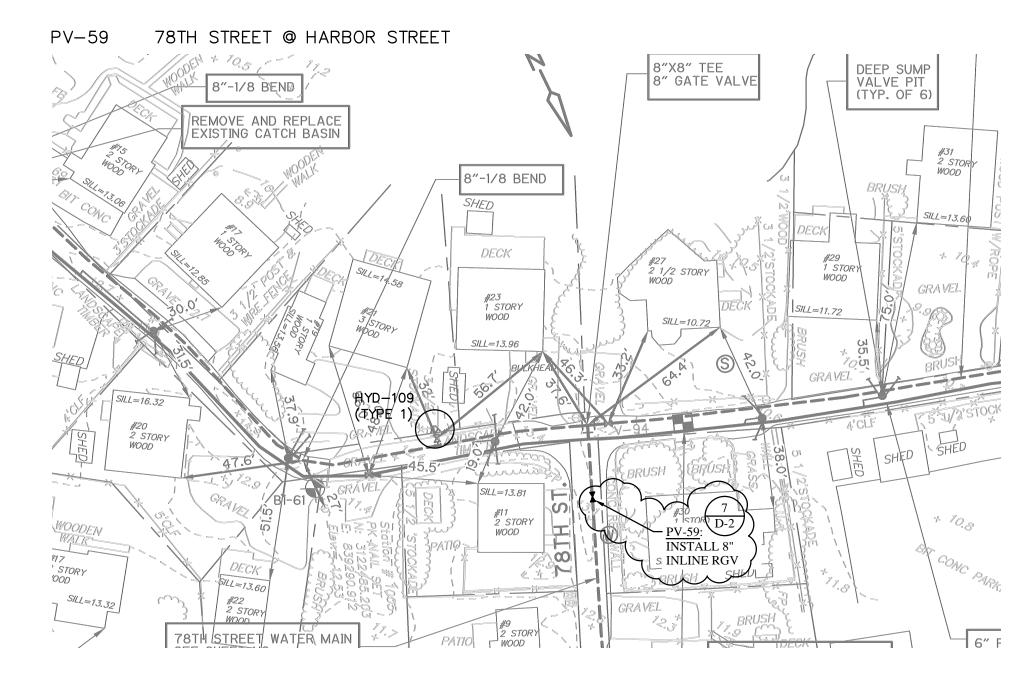






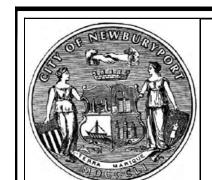






NOTES:

"PLAN VIEWS" ARE THE
AS-BUILT RECORD DRAWINGS
FROM THE ORIGINAL
WATER-SEWER PROJECT.
SEE GENERAL NOTES.



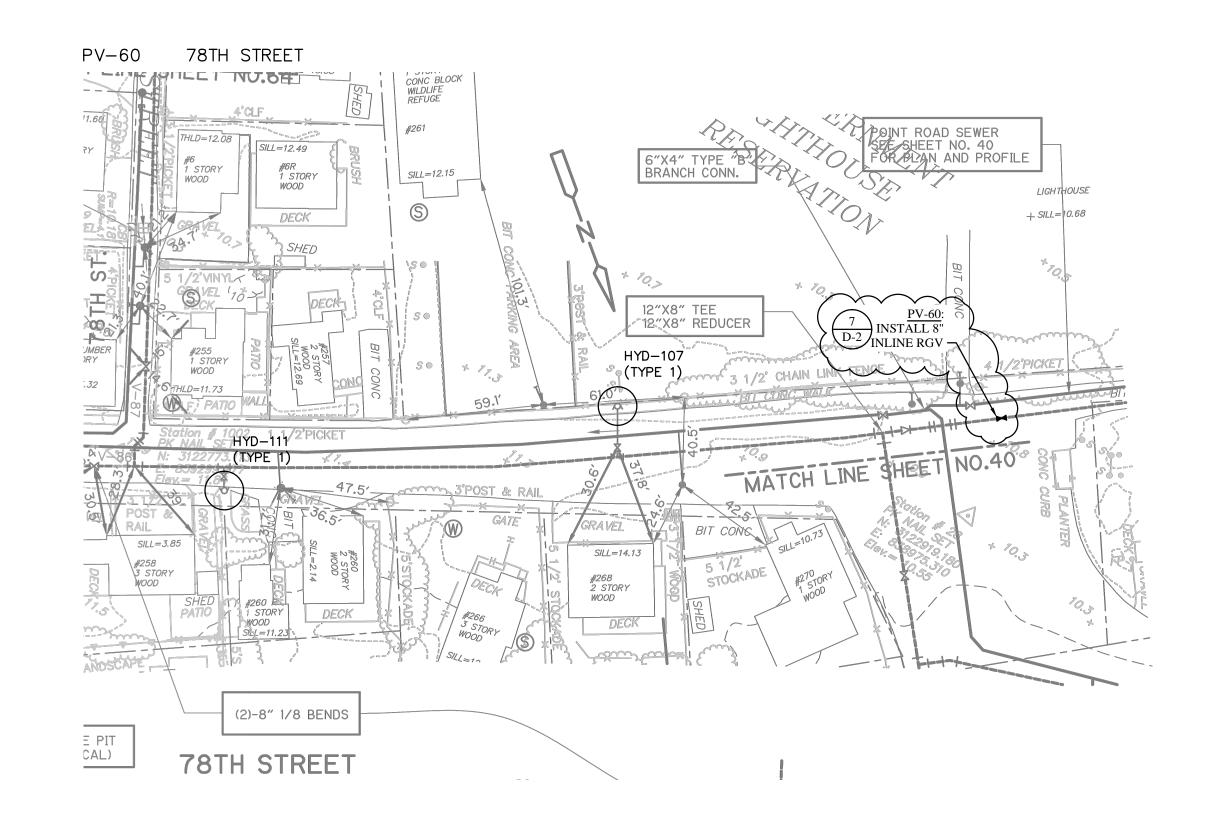
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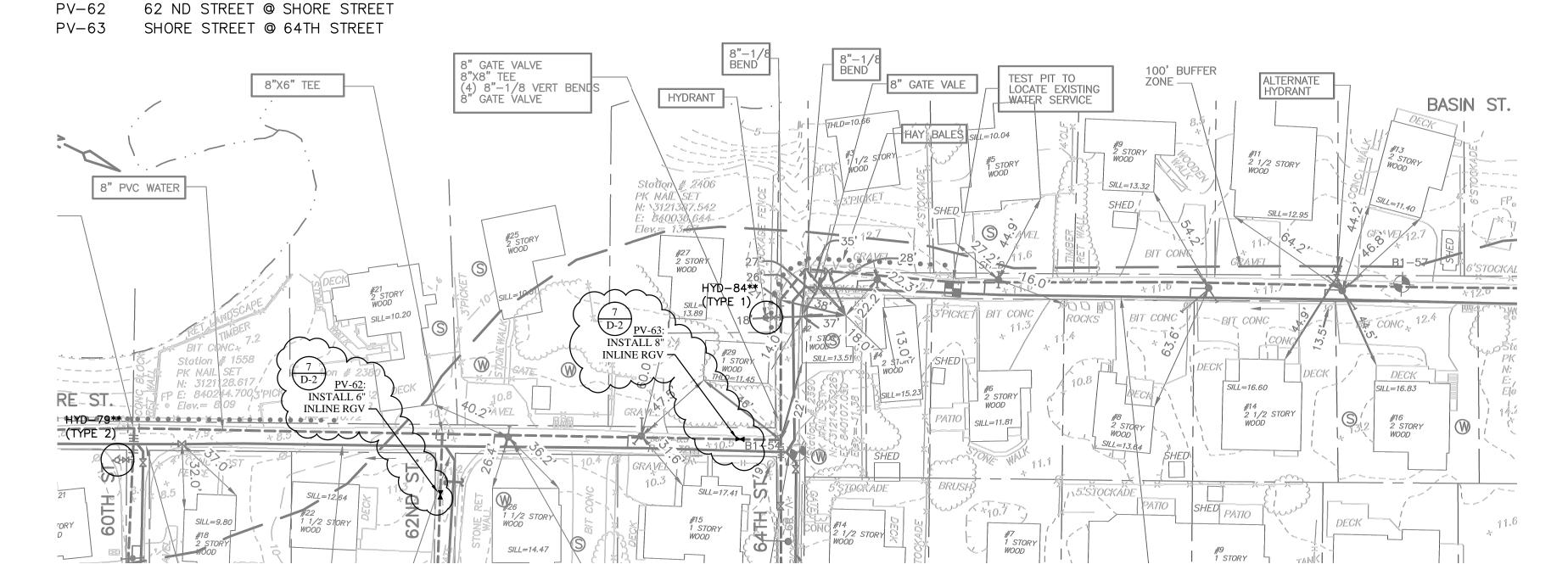
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	APRIL 7, 2017		
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PLUM ISLAND HYDRANT REPLACEMENT
PROPOSED VALVE LOCATION PLAN
PV-53 to PV-59

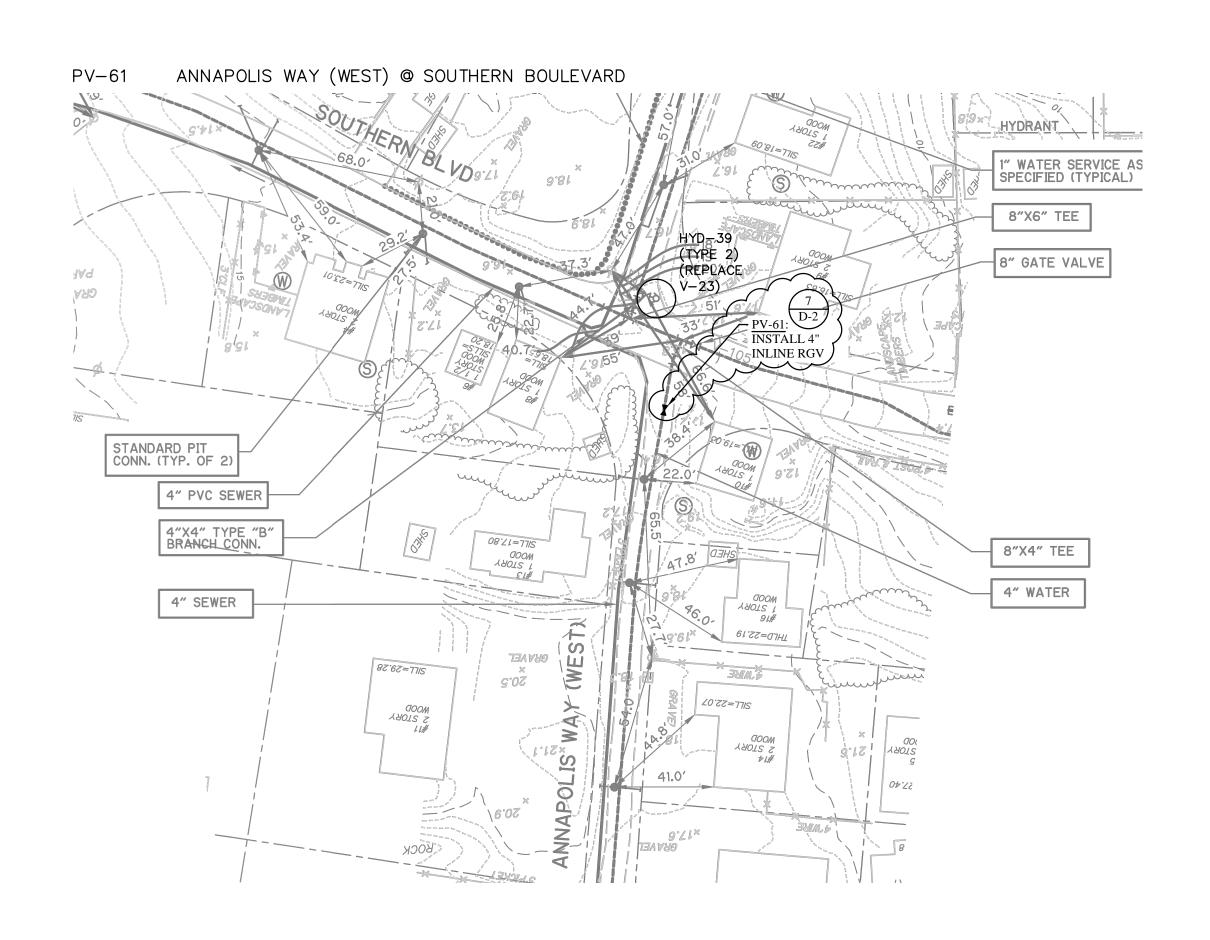
N.T.S

Sheet No. 56 OF 60





N.T.S



NOTES:

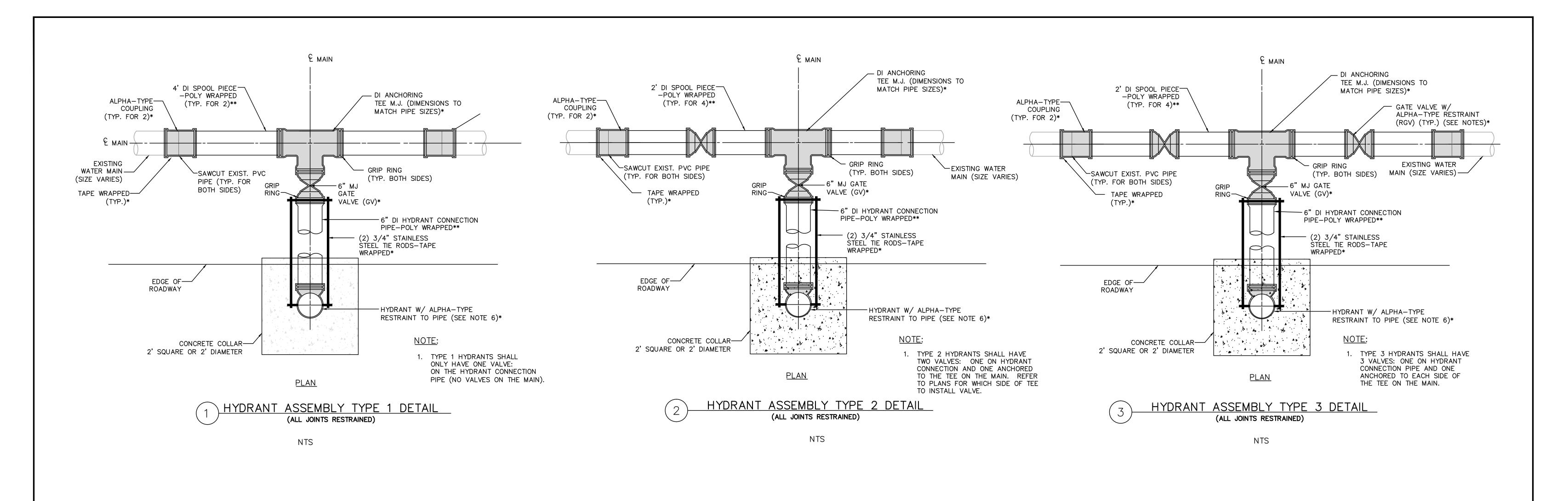
"PLAN VIEWS" ARE THE
AS-BUIT RECORD DRAWINGS
FROM THE ORIGINAL
WATER-SEWER PROJECT.
SEE GENERAL NOTES.

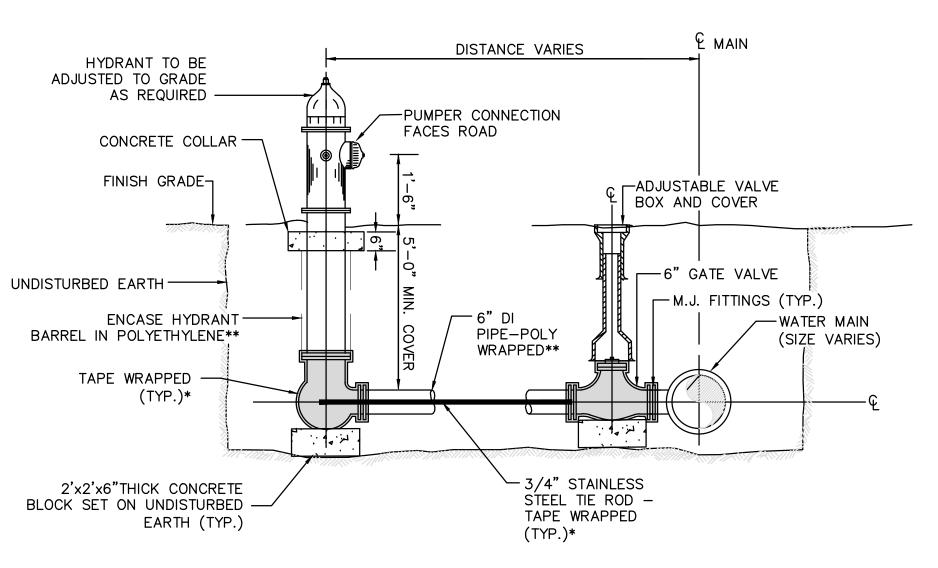
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PLUM ISLAND HYDRANT REPLACEMENT
PROPOSED VALVE LOCATION PLAN
PV-60 to PV-63

Sheet No. 57 OF 60





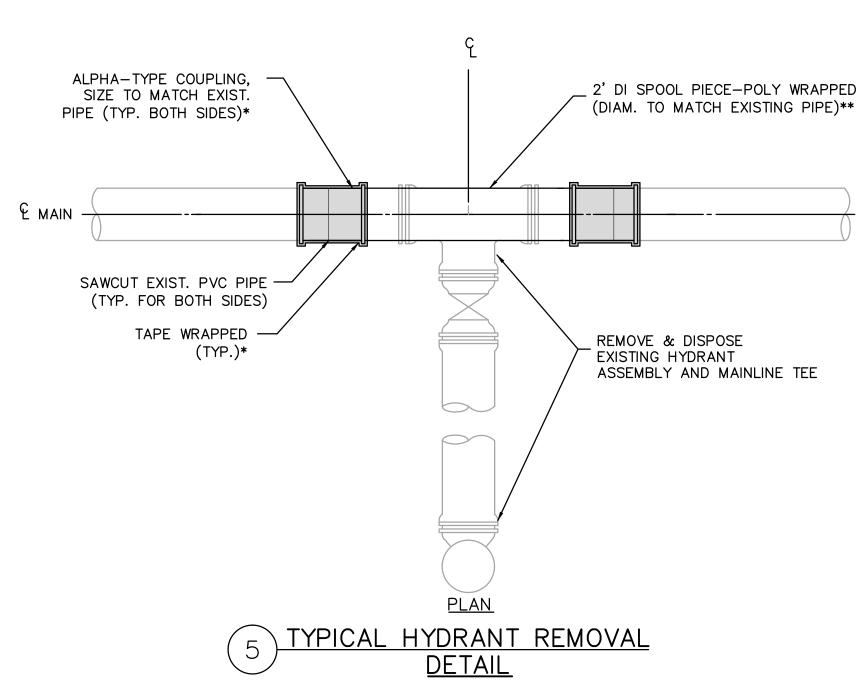
TYPICAL HYDRANT ASSEMBLY

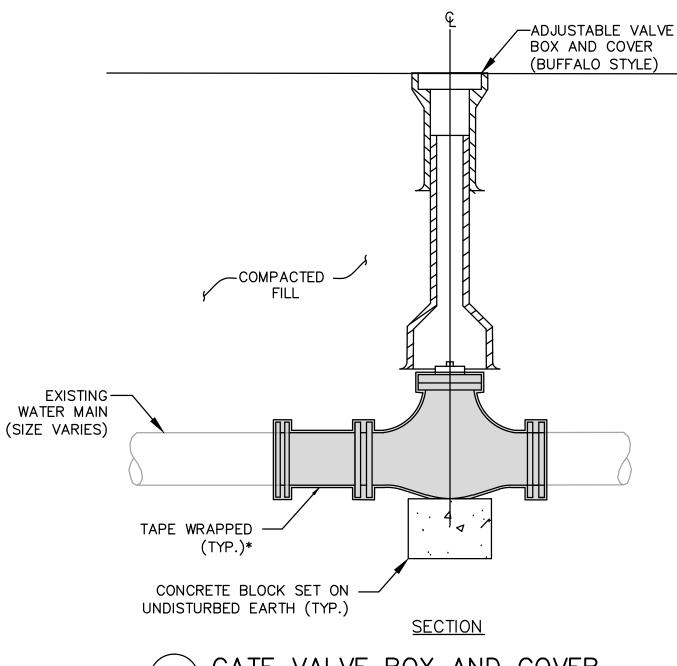
(ALL JOINTS RESTRAINED)

NTS

STAINLESS STEEL BOLTS AND APPURTENANCES TO BE WRAPPED IN

2. DI HYDRANT BARREL AND DI PIPE WILL BE WRAPPED IN POLYETHYLENE ENCASEMENT.





GATE VALVE BOX AND COVER

NTS

DETAIL NOTES:

- 1. REFER TO TECHNICAL SPECIFICATIONS FOR MATERIALS SPECIFICATIONS AND INSTALLATION REQUIREMENTS.
- 2. CONTRACTOR TO TAKE TIES TO EXISTING HYDRANTS BEFORE REMOVING AND SHALL INSTALL NEW HYDRANT IN ITS EXACT CURRENT LOCATION, UNLESS OTHERWISE NOTED OR DIRECTED. REMOVE & DISPOSE EXISTING HYDRANT ASSEMBLY AND MAINLINE TEE.
- 3. ALL FITTINGS NOT SHOWN HEREIN, SHALL BE RESTRAINED WITH GRIP RINGS. ALL SPOOL PIECES NOT SHOWN HEREIN SHALL BE DICL. ALL CONNECTION TO EXISTING PIPE SHAL USE AND ALPHA COUPLING.
- 4. * ALL RESTRAINTS AND HARDWARE SHALL BE STAINLESS STEEL AND TAPE-WRAPPED, WHICH INCLUDES JOINTS, BOLTS, NUTS, TIE RODS, COLLARS, AND GATE VALVE BODIES.
- 5. ** ALL DI PIPE SHALL BE WRAPPED IN POLYETHYLENE.



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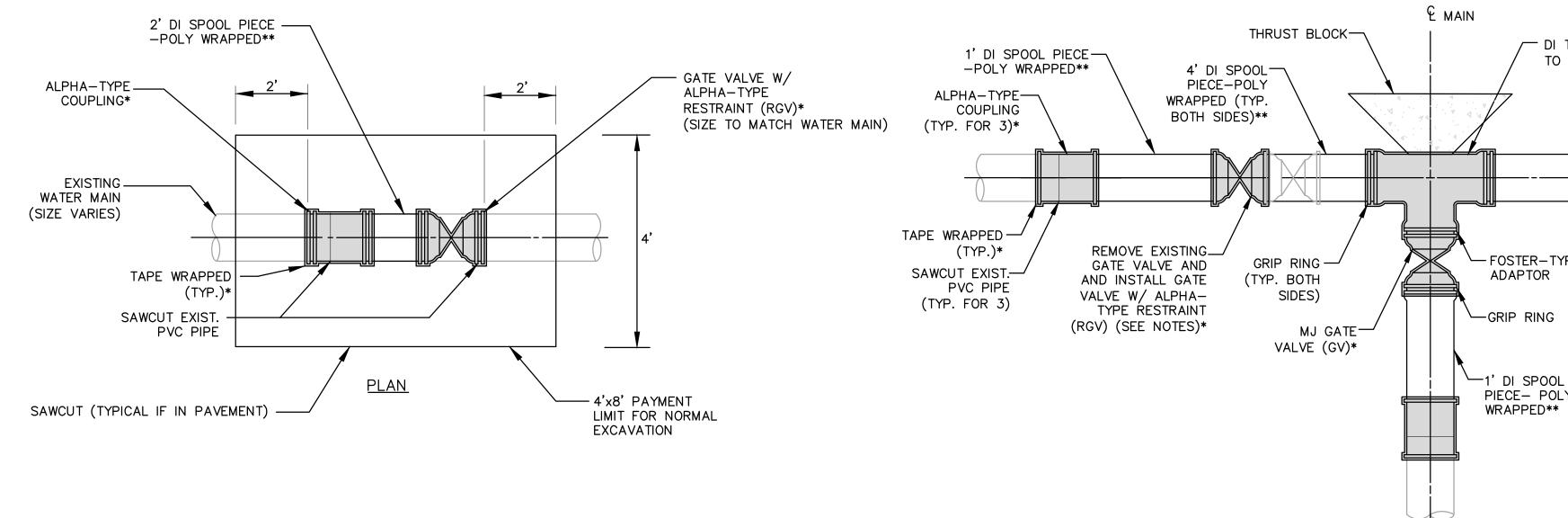
SCALE: NTS

PLUM ISLAND HYDRANT REPLACEMENT

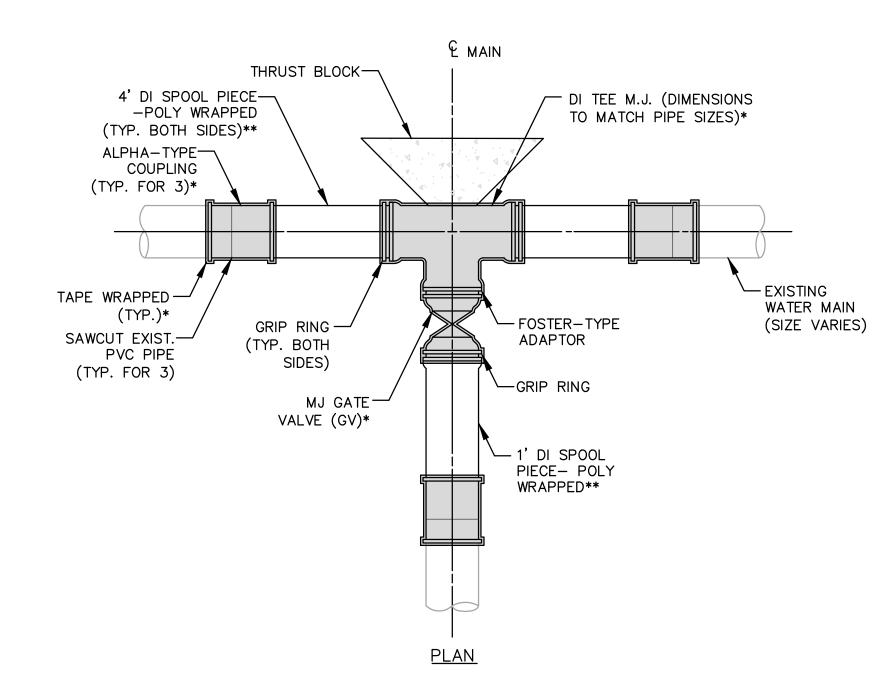
Sheet No. 58 OF 60

DETAILS SHEET I

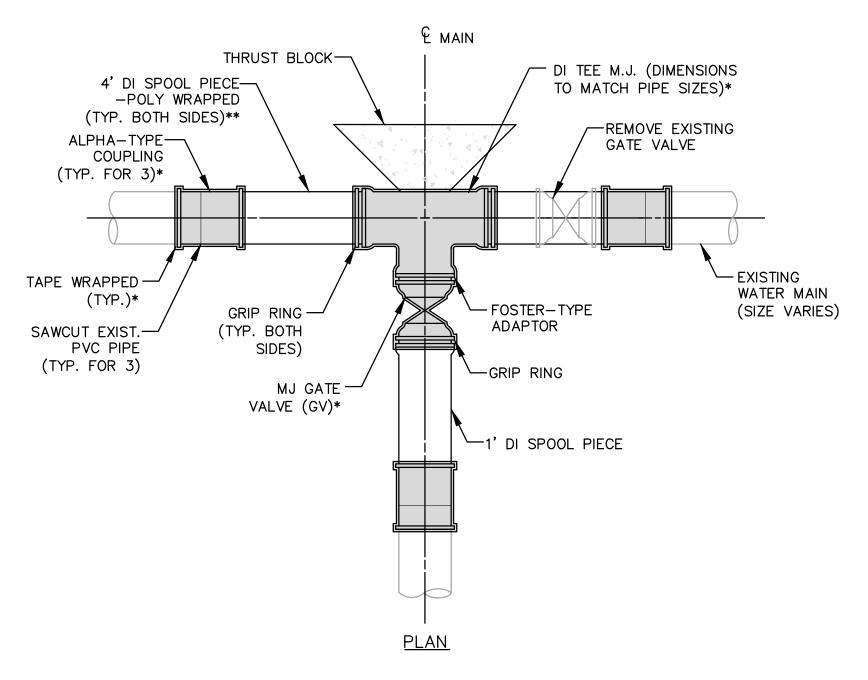
D-1



<u>PLAN</u> ISOLATION VALVE & TEE ASSEMBLY DETAIL (EXISTING VALVE REPLACED) (ALL JOINTS RESTRAINED AND DETAIL IS SIMILAR ON OTHER SIDE OF TEE) NTS



ISOLATION VALVE & TEE ASSEMBLY DETAIL (ALL JOINTS RESTRAINED) NTS



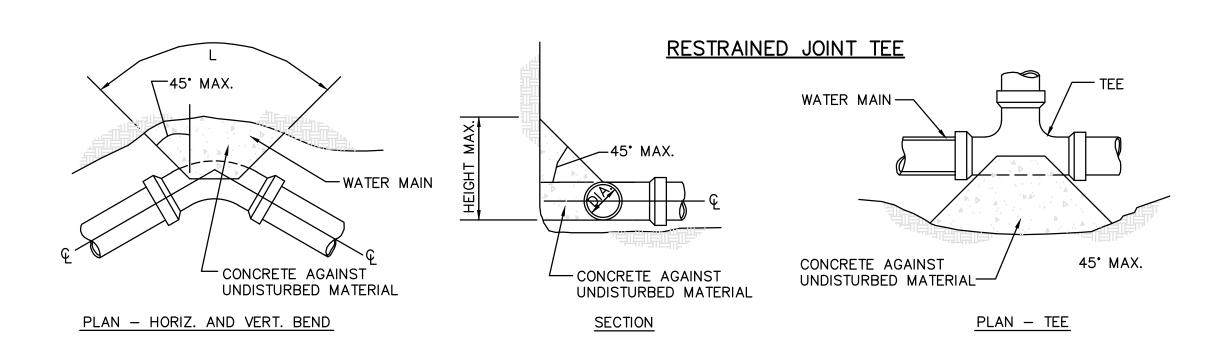
INLINE ISOLATION VALVE

ASSEMBLY DETAIL

(ALL JOINTS RESTRAINED)

NTS

ISOLATION VALVE & TEE ASSEMBLY DETAIL (EXISTING VALVE REMOVED) (ALL JOINTS RESTRAINED) NTS



FITTING	4" &LESS	6"	8"	10"	12"	16"
1/32 BEND (11 1/4°)	2 S.F.	2 S.F.	2 S.F.	2 S.F.	3 S.F.	5 S.F.
1/16 BEND (22 1/2°)	2 S.F.	2 S.F.	3 S.F.	3 S.F.	4 S.F.	5 S.F.
1/8 BEND (45°)	2 S.F.	2 S.F.	3 S.F.	5 S.F.	7 S.F.	12 S.F.
1/4 BEND (90°)	3 S.F.	3 S.F.	6 S.F.	9 S.F.	12 S.F.	21 S.F.
TEE / PLUG	2 S.F.	3 S.F.	4 S.F.	6 S.F.	9 S.F.	16 S.F.

- 1. ALL ELBOWS, BENDS AND CAPS SHALL BE BRACED WITH CONCRETE THRUST BLOCKS. JOINTS SHALL NOT BE ENCASED IN CONCRETE.

DI TEE M.J. (DIMENSIONS

- FOSTER-TYPE

ADAPTOR

PIECE- POLY

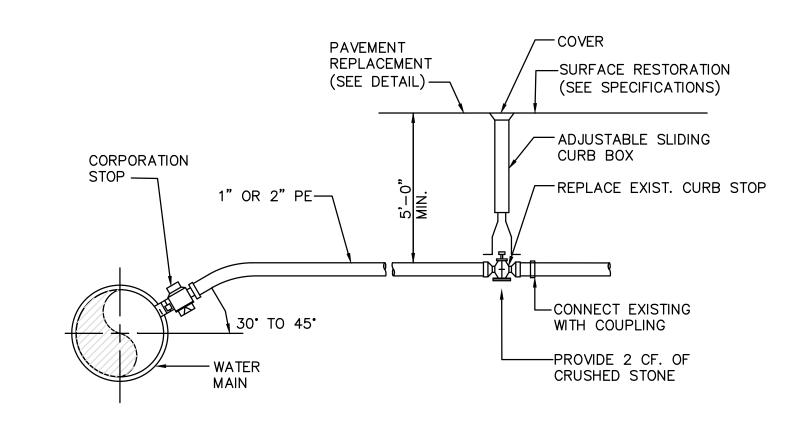
WRAPPED**

TO MATCH PIPE SIZES)*

- EXISTING WATER

MAIN (SIZE VARIES)

2. BEARING AREA IS AREA OF CONCRETE IN CONTACT WITH 4. THRUST BLOCK SIZING BASED ON 150 PSI WATER PRESSURE AND 2000 PSI SOIL BEARING CAPACITY. WALL OF TRENCH $(H \times L)$



1" OR 2" PE WATER 12) SERVICE CONNECTION DETAIL

> *NOTE: 1. REFER TO NOTES ON SHEET D-1.

CONCRETE THRUST BLOCK DETAILS

NTS

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SCALE: NTS

3. HEIGHT AND LENGTH AS

REQUIRED TO OBTAIN

BEARING AREA SHOWN ON

TABLE W/ H APPROX. 1/2 L.

PLUM ISLAND HYDRANT REPLACEMENT DETAILS SHEET II

Sheet No. 59 OF 60

D-2

