

# THE CITY OF NEWBURYPORT DEPARTMENT OF PUBLIC SERVICES PLUM ISLAND HYDRANT REPLACEMENT PROJECT

IN THE CITY OF  
NEWBURYPORT

AND

THE TOWN OF  
NEWBURY

INDEX OF DRAWINGS

SHEET NUMBERS

DESCRIPTION

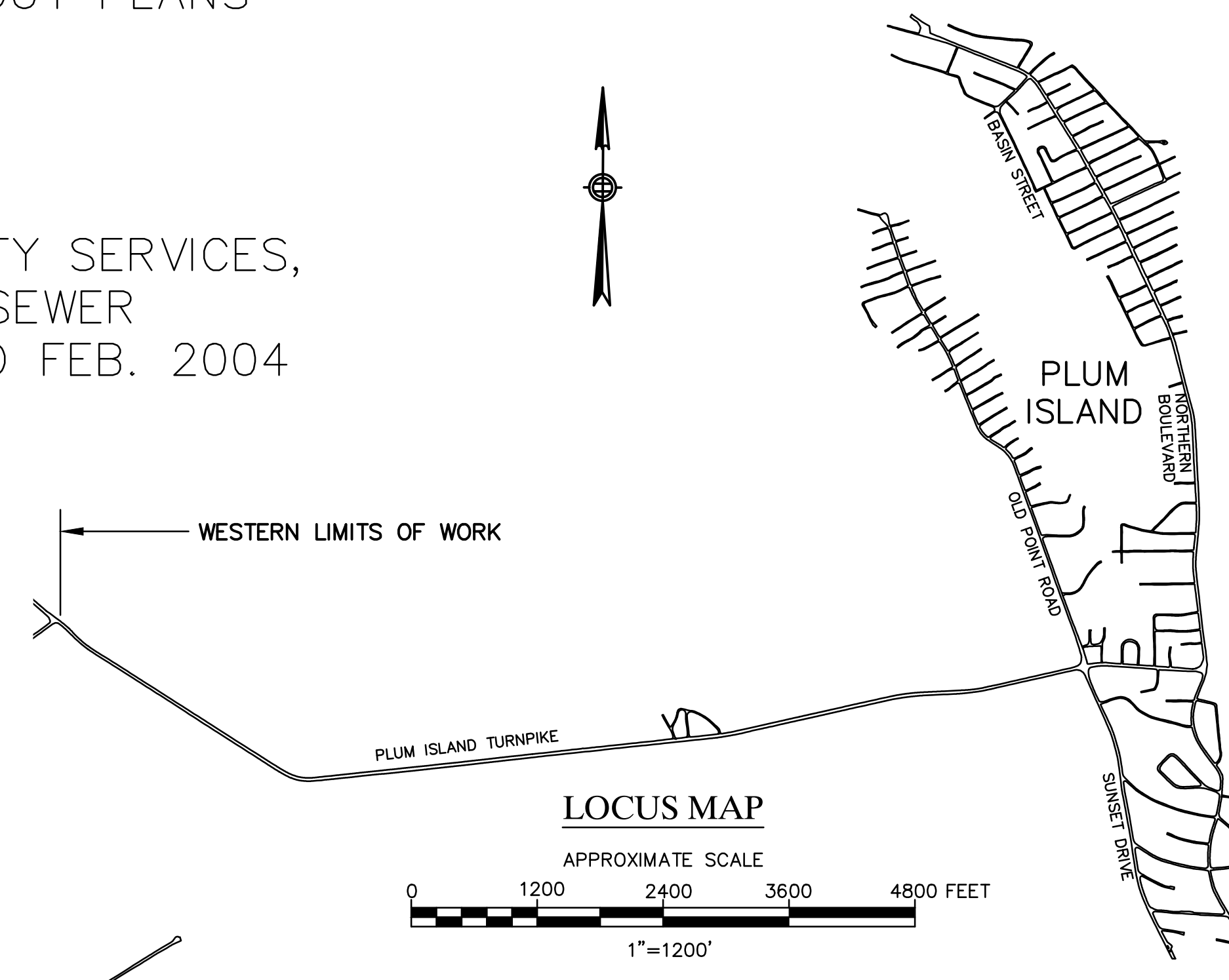
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LEG-1	LEGENDS, GENERAL NOTES, AND ABBREVIATIONS
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RECORD PLANS: PLUM ISLAND UTILITY SERVICES, WATER DISTRIBUTION AND VACUUM SEWER SYSTEMS, CONTRACT NO. 2, REVISED FEB. 2004 (74 SHEETS)

CONTRACT NO. 2017-DPS-009

APRIL 7, 2017



CITY OF NEWBURYPORT

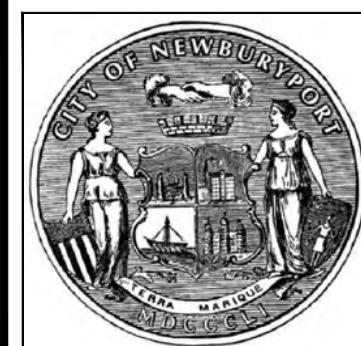
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DEPARTMENT OF PUBLIC SERVICES

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CITY OF NEWBURYPORT  
DEPARTMENT OF PUBLIC SERVICES  
16A PERRY WAY  
NEWBURYPORT, MA 01950

Rev No	Date	Drawn	Chkd	Description

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D. GAGNON  
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Date:  
APRIL 7, 2017

SCALE:  
AS NOTED

**PLUM ISLAND HYDRANT REPLACEMENT**  
**TITLE SHEET &**  
**INDEX OF DRAWINGS**

Sheet No.  
1 OF 60  
**T-1**

**LEGEND**

EXISTING	PROPOSED	DESCRIPTION
————	————	PROPERTY LINE
————	————	EDGE OF ROADWAY
————	————	WATER MAIN
⊗	⊗	UTILITY POLE
⊗	⊗	HYDRANT
V-23	PV-47	WATER VALVE
▷	▷	REDUCER
	⊥	TEE

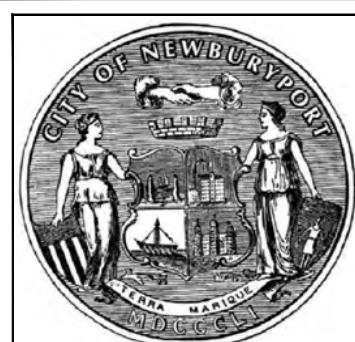
**ABBREVIATIONS**

**GENERAL & UTILITIES**

HYD	HYDRANT
N.T.S.	NOT TO SCALE
PROP.	PROPOSED
R&R	REMOVE & RESET
TYP.	TYPICAL
U.P.	UTILITY POLE
V	WATER VALVE
GV	GATE VALVE
PV	PROPOSED WATER VALVE
HOR.	HORIZONTAL (BEND)
VERT.	VERTICAL (BEND)

**GENERAL NOTES:**

1. THE PHOTOGRAPHS PROVIDED ON THE EXISTING CONDITIONS PLANS WERE TAKEN BETWEEN OCTOBER 14, 2016 AND JANUARY 6, 2017. THESE PHOTOGRAPHS DEPICT THE SITE CONDITIONS AT EACH HYDRANT BUT ALSO IDENTIFY SOME OF THE WORK TO BE PERFORMED UNDER THIS HYDRANT REPLACEMENT CONTRACT. THE "PLAN VIEWS" ON THE EXISTING CONDITIONS PLANS ARE TAKEN FROM THE RECORD (AS-BUILT) PLANS FROM THE ORIGINAL WATER AND SEWER UTILITY PROJECT. APPLICABLE FULL-SIZE SHEETS OF THESE RECORD PLANS ARE PROVIDED AS PART OF THESE CONTRACT DRAWINGS FOR REFERENCE PURPOSES ONLY WITH THE UNDERSTANDING THAT THE INFORMATION CONTAINED THEREIN IS APPROXIMATE AND NOT GUARANTEED TO BE ACCURATE. PIPE, FITTING, AND VALVE SIZES MAY ALSO VARY AND IT IS THE INTENT OF THIS PROJECT TO REPLACE EXISTING MATERIALS WITH NEW MATERIALS OF THE SAME SIZE.
2. THE EXISTING WATER LINES 4-INCHES AND LARGER ARE PVC. SMALLER 1-INCH AND 2-INCH LINES ARE POLYETHYLENE (PE) PIPE/TUBING. HYDRANT CONNECTIONS ARE EITHER 6-INCH DUCTILE IRON OR 6-INCH PVC, EXACT QUANTITY OF EITHER IS UNKNOWN. THE CONTRACTOR SHALL PREPARE TO WORK WITH, CONNECT TO, AND DISPOSE OF BOTH PIPING MATERIALS AS PART OF THE WORK REQUIRED UNDER THIS CONTRACT.
3. EXCAVATIONS MUST BE PERFORMED IN THE DRY, ESPECIALLY DURING TAPE WRAPPING. THE CONTRACTOR SHALL PROVIDE ALL THE DEWATERING EQUIPMENT NECESSARY TO PERFORM THE WORK AS SPECIFIED. WELL POINT DEWATERING SYSTEM(S) WILL BE NECESSARY ESPECIALLY IN LOW LYING AREAS. CONTRACTOR MUST TAKE INTO ACCOUNT THE ANTICIPATED GROUNDWATER CONDITIONS IN SANDY SOILS AS WELL AS THE OCEAN TIDE CYCLE WHEN PREPARING HIS/HER WORK SCHEDULE AND BID.
4. ALL WORK SHALL BE IN ACCORDANCE WITH THESE DRAWINGS, THE SPECIFICATIONS, AND MASSACHUSETTS DEPARTMENT OF TRANSPORTATION (FORMERLY MASSHIGHWAY) STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES, 1988 EDITION AND THE LATEST SUPPLEMENTAL SPECIFICATIONS.
5. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL CALL DIG SAFE AT 811 OR 888-344-7233 AT LEAST 72 HOURS, EXCLUSIVE OF SATURDAYS, SUNDAYS, AND LEGAL HOLIDAYS, BUT NO MORE THAN 30 DAYS BEFORE THE PROPOSED EXCAVATION IS TO BE MADE. A COPY OF THE DIG SAFE PROJECT ACCOUNT NUMBER SHALL BE GIVEN TO THE DPS PRIOR TO EXCAVATION.
6. THE CONTRACTOR SHALL COORDINATE ALL ARRANGEMENTS FOR ANY ALTERATION OR ADJUSTMENT OF ELECTRIC/CABLE/PHONE, AND ANY OTHER PRIVATE UTILITY PRIOR TO PERFORMING THE WORK.
7. EXISTING PRIVATE PROPERTY LINES HAVE BEEN ESTABLISHED FROM AVAILABLE INFORMATION AND THEIR EXACT LOCATIONS ARE NOT GUARANTEED. THE CONTRACTOR SHALL MINIMIZE IMPACTS TO PRIVATE PROPERTIES, DELINEATE IN THE FIELD THE WORK TO BE PERFORMED, AND COORDINATE WITH THE ENGINEER PRIOR TO PERFORMING ANY WORK. CONSTRUCTION WORK NOTICES SHALL BE DELIVERED BY THE CONTRACTOR TO EACH RESIDENT DAYS IN ADVANCE OF THE WORK, AS STATED IN THE SPECIFICATIONS.
8. THE TERM "PROPOSED" (PROP.) MEANS WORK TO BE CONSTRUCTED HEREIN USING NEW MATERIALS. MATERIALS IDENTIFIED AS "REMOVE AND RESET" (R&R) SHALL MEAN TO RE-SET EXISTING MATERIALS AND TO FURNISH ANY ADDITIONAL NEW MATERIAL OF THE SAME TYPE AND DIMENSIONS AS NECESSARY TO COMPLETE THE WORK.
9. THE CONTRACTOR SHALL PROVIDE FOR THE SAFE AND ORDERLY PASSAGE OF VEHICULAR AND PEDESTRIAN TRAFFIC IN AREAS UNDER CONSTRUCTION. ON MOST NARROW STREETS, THE CONTRACTOR SHALL SHUTDOWN THE ROAD AND PROVIDE DETOUR SIGNS AND ADVANCE WARNINGS. POLICE DETAILS WILL BE REQUIRED IF AND AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER IN DETERMINING WHEN AND WHERE DETAILS ARE NECESSARY TO ENSURE A SAFE WORK ZONE. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
10. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR SITE SECURITY AND JOB SAFETY. ALL CONSTRUCTION ACTIVITY SHALL BE IN ACCORDANCE WITH OSHA REGULATIONS AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL REQUIREMENTS.
11. ZONES HAVE BEEN CREATED TO PROVIDE CONTROL OF WORK AND LIMIT THE NUMBER OF PROPERTIES SHUTDOWN AT ANY ONE TIME. ALL SHUTDOWNS MUST BE CAREFULLY COORDINATED WITH THE ENGINEER IN ADVANCE OF ANY VALVE CLOSURE. REFER TO SPECIFICATIONS FOR THE DETAILED REQUIREMENTS AND THE ADVANCE NOTICES THAT MUST BE DELIVERED PRIOR TO SHUTDOWNS.
12. SHOULD AN EXISTING UTILITY BE FOUND TO BE IN CONFLICT WITH THE PROPOSED WORK AND NOT ADDRESSED IN THE PLANS, THE LOCATION SIZE AND TYPE SHALL BE ACCURATELY DETERMINED WITHOUT DELAY, BY THE CONTRACTOR, AND THE INFORMATION FURNISHED TO THE ENGINEER FOR RESOLUTION OF THE CONFLICT.
13. EXISTING VEGETATION AND LANDSCAPING WITHIN THE LIMITS OF WORK THAT ARE NOT SCHEDULED FOR REMOVAL SHALL BE PROTECTED FROM DAMAGES DUE TO CONSTRUCTION PRIOR TO PERFORMING THE WORK.
14. AREAS OUTSIDE THE LIMITS OF WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS OR NEGLIGENCE SHALL BE RESTORED TO BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
15. SHOP DRAWINGS OF ALL HYDRANTS, PIPE, AND MANUFACTURED COMPONENTS SHALL BE SUBMITTED FOR APPROVAL BEFORE ORDERING.
16. ALL UNDERGROUND STRUCTURES AND UTILITIES ARE TO BE CAPABLE OF WITHSTANDING H20 WHEEL LOADS.
17. THE CONTRACTOR SHALL PERFORM TEST PITS FOR EXPLORATORY PURPOSES AS NECESSARY OR AS OTHERWISE DIRECTED BY THE ENGINEER.
18. THE CONTRACTOR IS ADVISED THAT IT MAY BE NECESSARY TO WORK DURING PERIODS OTHER THAN NORMAL WORKING HOURS FOR THE PURPOSED OF OBTAINING SHUT DOWNS AND/OR TO FACILITATE INSTALLATIONS OF NEW WORK. ALL WORK OUTSIDE NORMAL WORKING HOURS MUST BE COORDINATED WITH, AND APPROVED BY, THE ENGINEER PRIOR TO DOING THE WORK.
19. EXACT LOCATIONS OF UNDERGROUND WATER LINES ARE UNKNOWN AND IS NOT EASILY DETECTABLE. PROPOSED ISOLATION VALVE LOCATIONS ARE APPROXIMATE AND ARE BASED ON THE RECORD PLANS PROVIDED HEREIN. THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER IN DETERMINING THE LIMITS OF EXCAVATION AND WHERE TO SAW CUT THE PAVEMENT PRIOR TO ANY DIGGING.
20. CONNECTIONS TO EXISTING WATER PIPE SHALL BE WITH RESTRAINED JOINT COUPLINGS AND AS SHOWN ON THE DRAWINGS. WHERE FITTINGS OR COMPONENTS ARE NOT SHOWN OR ADDRESSED ON THE DRAWINGS OR IN THE SPECIFICATIONS, THE CONTRACTOR SHALL PRESENT THEIR PROPOSED WORK TO THE ENGINEER FOR APPROVAL PRIOR TO ORDERING OR INSTALLATION.



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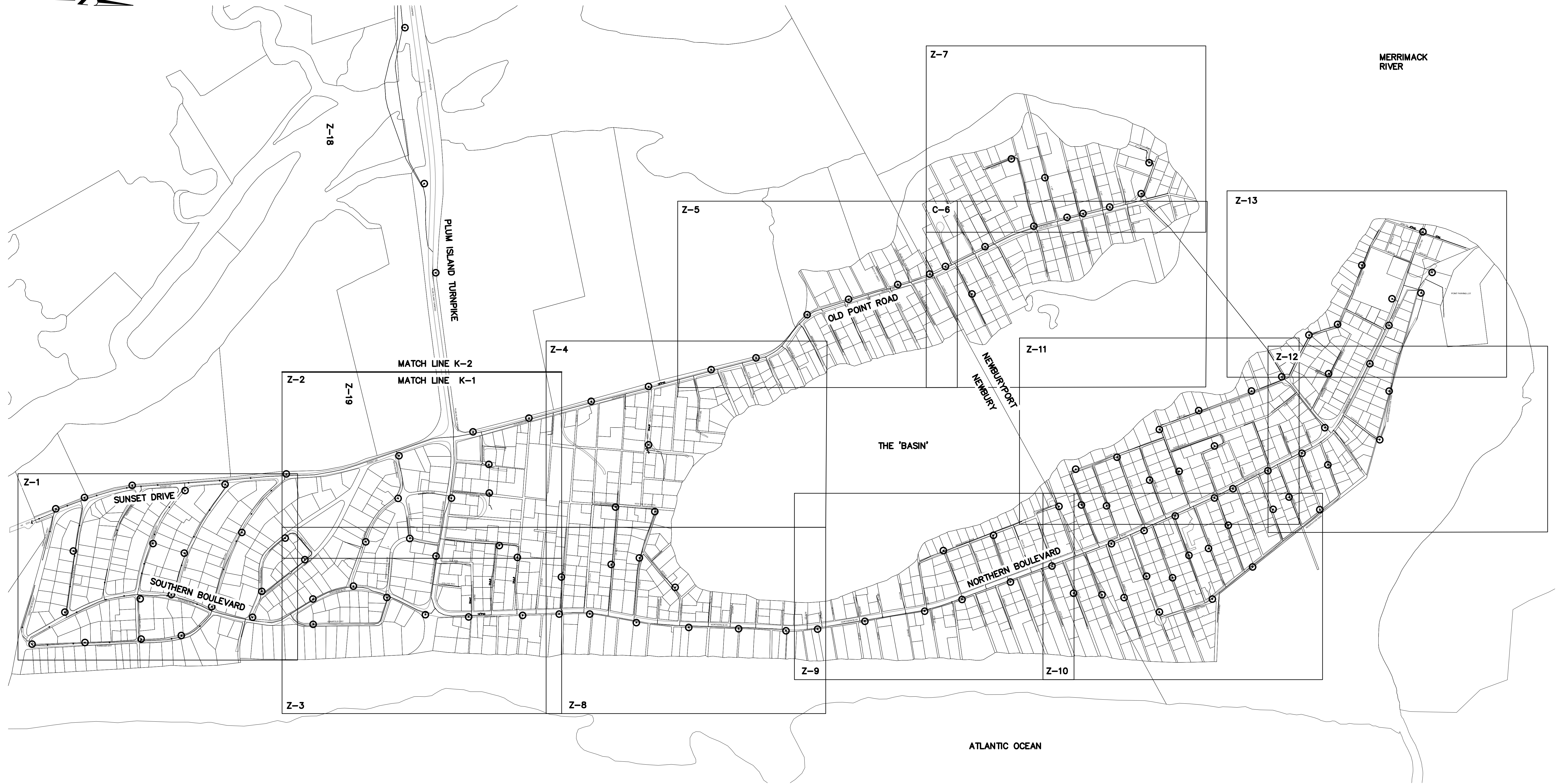
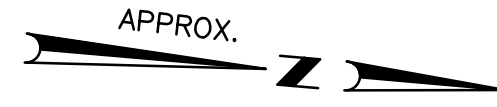
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**PLUM ISLAND HYDRANT REPLACEMENT  
LEGENDS, GENERAL NOTES, &  
ABBREVIATIONS**

Sheet No.  
2 OF 60

**LEG-1**



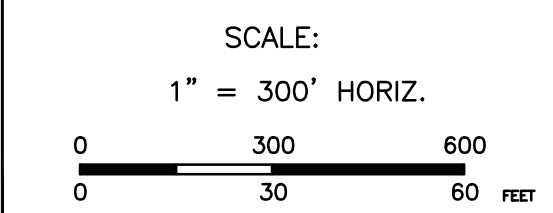
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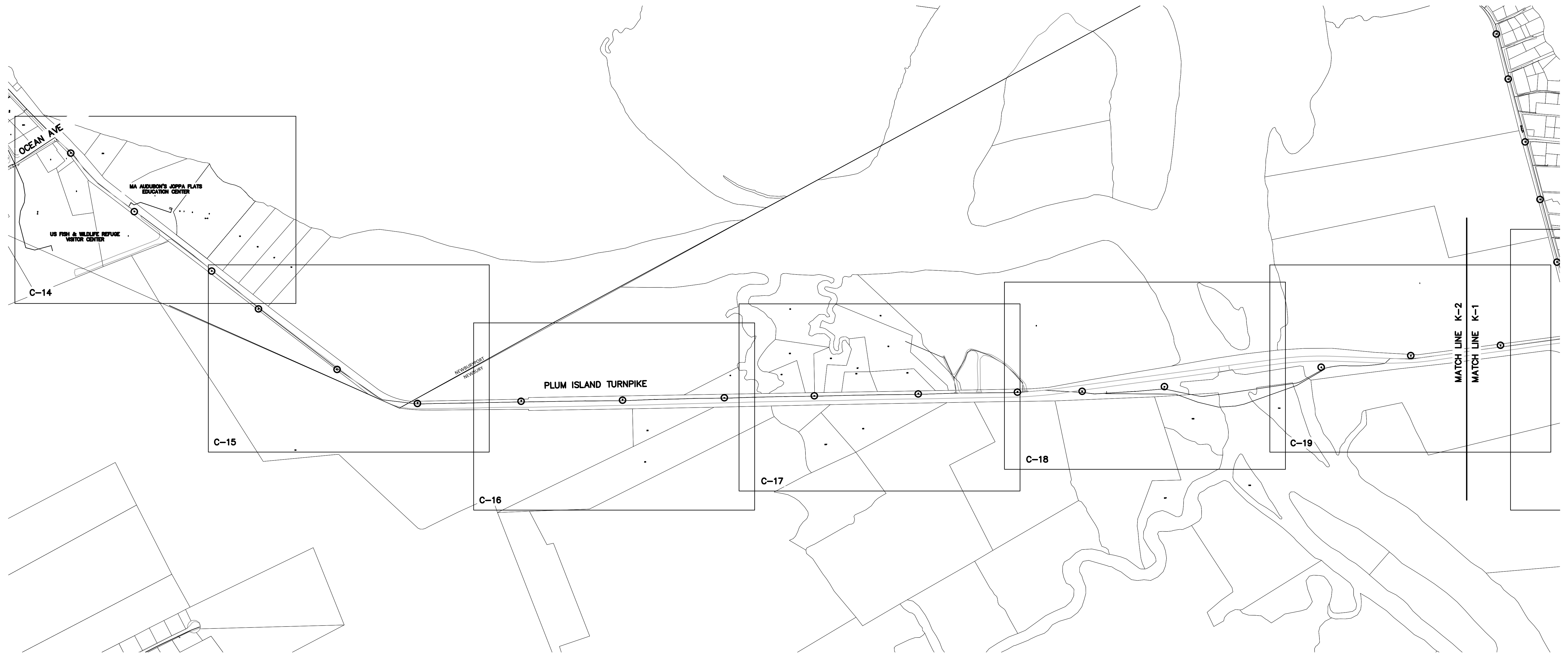
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**PLUM ISLAND HYDRANT REPLACEMENT**  
**KEY PLANS I**

Sheet No.  
3 OF 60  
**K-1**



CITY OF NEWBURYPORT  
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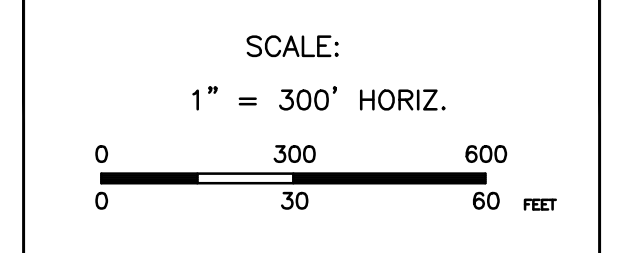
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**PLUM ISLAND HYDRANT REPLACEMENT**

**KEY PLANS II**

Sheet No.  
4 OF 60

K-2

HYDRANT SUMMARY TABLE

HYDRANT	ZONE	HYDRANT LOCATION	HYDRANT TYPE	MAIN SIZE (INCHES)	DISTANCE* (FEET)	ADDITIONAL COMPONENTS
HYD-1	1	SUNSET DRIVE @ TEMPLE BOULEVARD	2	8	3.3	REPLACE 8" 1/8 HOR. BEND
HYD-2	1	SUNSET DRIVE @ JACKSON WAY	1	8	6.8	
HYD-3	1	SUNSET DRIVE @ INDEPENDENCE WAY	1	8	6.3	
HYD-4**	8	SUNSET DRIVE @ FORDHAM WAY	2 (REPLACES V-104)	8	6.6	REPLACE 8x8x8 TEE
HYD-5	17	OLD POINT ROAD	1	12	5.8	
HYD-6	17	OLD POINT ROAD	1	12	5.8	
HYD-7	17	OLD POINT ROAD	1	12	6.8	
HYD-8	17	OLD POINT ROAD @ HUTCHINS RD	1	12	7.3	
HYD-9	18	OLD POINT ROAD	1	12	5.1	
HYD-10	19	OLD POINT ROAD	1	12	5.0	
HYD-11	67	PLUM ISLAND TURNPIKE (NEAR OCEAN AVE)	3 (REPLACES V-146 & V-147)	12	12.0	
HYD-12	19	OLD POINT ROAD	1	12	7.3	REPLACE 12" 1/32 HOR. BEND
HYD-13	20	OLD POINT ROAD @ DAVOLI WAY	1	12	11.3	
HYD-14	20	OLD POINT ROAD	1	12	7.5	
HYD-15	21	OLD POINT ROAD	2 (REPLACES V-37)	12	5.0	
HYD-16	21	OLD POINT ROAD	1	12	8.0	
HYD-17	21	OLD POINT ROAD	1	12	8.1	
HYD-18**	22	OLD POINT ROAD @ K STREET	1	12	2.8	
HYD-19	25	OLD POINT ROAD	1	12	6.5	
HYD-20	25	OLD POINT ROAD @ M STREET	1	12	5.7	
HYD-21	26	OLD POINT ROAD	1	12	7.0	
HYD-22	26 & 27	OLD POINT ROAD @ P STREET	1	8	5.6	
HYD-23	3	FORDHAM STREET @ SOUTHERN BOULEVARD	1	8	8.7	
HYD-24	2	JACKSON WAY	1	8	7.3	
HYD-25	2	JACKSON WAY @ SOUTHERN BOULEVARD	2 (REPLACES V-3)	8	4.8	REPLACE 8" 1/16 HOR. BEND
HYD-26	4	HARVARD WAY @ SUNSET DRIVE	1	6	7.0	REPLACE 6" 1/8 HOR. BEND
HYD-27	5	HARVARD WAY @ SOUTHERN BOULEVARD	2	8	6.1	NEW 8" RGV
HYD-28	6	GIRARD WAY AT SUNSET DRIVE	2 (REPLACES V-17)	6	13.0	REPLACE 6" 1/8 HOR. BEND
HYD-29	6	GIRARD WAY	1	6	3.5	
HYD-30	7	SOUTHERN BOULEVARD @ GIRARD WAY	1	8	14.5	
HYD-31	8	FORDHAM WAY @ SOUTHERN BOULEVARD	1	8	6.6	
HYD-32	5	FORDHAM WAY	1	8	7.5	
HYD-33	12	COLUMBIA WAY	1	8	9.8	
HYD-34	12	COLUMBIA WAY	1	8	6.0	
HYD-35**	11	SOUTHERN BOULEVARD @ COLUMBIA WAY	1	8	10.5	
HYD-36	14	PLUM ISLAND BOULEVARD @ OLGA WAY	1	12	12.2	
HYD-37**	14 & 15	OLGA WAY	1	8	4.7	REMOVE 8" CAP, NEW 8x6 REDUCER
HYD-38	14	PLUM ISLAND BOULEVARD	1	12	12.1	
HYD-39	10	ANNAPOLIS WAY @ SOUTHERN BOULEVARD	2 (REPLACES V-23)	6	8.8	REPLACE 8x8x8 TEE
HYD-40	14 & 16	O'CONNOR COURT	1	8	5.3	REPLACE 8" 1/8 HOR. BEND & 8x4 REDUCER
HYD-41	12	BRYN MAWR WAY @ SUNSET DRIVE	1	8	9.2	
HYD-42	13	SOUTHERN BLVD @ PLUM ISLAND BLVD	1	8	16.7	
HYD-43	28	DONNA'S WAY	1	6	12.5	
HYD-44**	28	6TH STREET	1	6	3.2	
HYD-45	17	HUTCHINS ROAD	1	8	8.5	REPLACE 8x4 REDUCER
HYD-46	21	GLORIA STREET	1	8	6.0	
HYD-47	22 & 23	MARSH STREET	1	8	4.0	REPLACE 8x4 REDUCER
HYD-48	22 & 24	L STREET	1	8	5.9	REPLACE 8x4 REDUCER

NOTES:

1. THESE TABLES ARE PROVIDED TO DETERMINE WHICH EXISTING VALVES (TO THE BEST OF OUR KNOWLEDGE) ARE NEEDED TO BE SHUT DOWN IN ORDER TO REPLACE AN EXISTING HYDRANT OR VALVE OR INSTALL A NEW HYDRANT, VALVE OR MAJOR COMPONENTS. FOR EXAMPLE, TO REPLACE HYDRANT #1, EXISTING VALVES V-1 AND V-2 MUST BE CLOSED.
2. REFER TO SPECIFICATIONS FOR SPECIFICS ON NOTIFYING ABUTTERS PRIOR TO SHUTTING DOWN ANY ZONE OR SERVICE.
3. TEMPORARY BYPASSING OF THE WATER MAIN WILL BE REQUIRED TO REPLACE HYDRANTS ALONG THE TURNPIKE. REFER TO DETAILS AND SPECIFICATIONS FOR SPECIFIC REQUIREMENTS.
4. DISRUPTION TO THE INDIVIDUAL SERVICE CONNECTIONS ALONG THE TURNPIKE WILL BE DEPENDENT UPON THE BYPASSING SYSTEM BEING PERFORMED. OWNERS MUST BE NOTIFIED ACCORDINGLY.
5. REFER TO EXISTING CONDITIONS PLANS FOR LAYOUT OF EXISTING PIPE, FITTINGS, AND VALVES. REPLACE HYDRANTS, VALVES, AND FITTINGS AS INDICATED ON THE TABLES AND AS SHOWN ON THE DRAWINGS. WHERE EXISTING COMPONENTS ARE ENCOUNTERED BUT NOT INDICATED FOR REMOVAL OR REPLACEMENT, CONTACT THE ENGINEER FOR DIRECTION.

HYDRANT SUMMARY TABLE

HYDRANT	ZONE	HYDRANT LOCATION	HYDRANT TYPE	MAIN SIZE (INCHES)	DISTANCE* (FEET)	ADDITIONAL COMPONENTS
HYD-49	26 & 27	P STREET	1	8	3.0	REPLACE 8x4 REDUCER
HYD-50	9	DARTMOUTH WAY @ SOUTHERN BOULEVARD	2 (REPLACES V-19)	8	12.1	REPLACE 8x8x8 TEE, (2) 8" 1/8 HOR. BENDS & 8" GV (REPLACES V-18)
HYD-51	9	DARTMOUTH WAY @ EXETER WAY	1	6	6.8	REPLACE 6" 1/8 BEND
HYD-52	9	EXETER WAY	1	6	5.6	
HYD-53	10	ANNAPOLIS WAY	1	6	7.3	
HYD-54	11	SOUTHERN BOULEVARD	1	8	8.8	
HYD-55	29	NORTHERN BOULEVARD	1	12	5.5	
HYD-56	30	NORTHERN BOULEVARD	1	12	4.5	
HYD-57**	30	NORTHERN BOULEVARD	1	12	7.8	
HYD-58	30 & 31	10TH STREET	1	8	4.5	
HYD-59	33	NORTHERN BOULEVARD	1	12	8.3	
HYD-60	32	14TH STREET	1	6	5.2	
HYD-61	32	16TH TEE STREET (SOUTH)	1	6	2.9	
HYD-62	34	NORTHERN BOULEVARD @ 16TH STREET	1	12	11.3	
HYD-63**	34	16TH STREET	1	6	6.9	
HYD-64	34	20TH STREET	1	6	4.3	
HYD-65	35	NORTHERN BOULEVARD	1	12	11.0	
HYD-66	35	NORTHERN BOULEVARD	1	12	8.5	
HYD-67	36	NORTHERN BOULEVARD	1	12	8.0	
HYD-68	36	NORTHERN BOULEVARD	1	12	9.5	
HYD-69	36	NORTHERN BOULEVARD	1	12	10.3	
HYD-70	37	NORTHERN BOULEVARD	1	12	9.8	
HYD-71	37	NORTHERN BOULEVARD	1	12	8.5	REPLACE 12x12x8 TEE, 12" GV (REPLACES V-108)
HYD-72	38	BASIN FRONT DRIVE @ 44TH STREET	1	8	3.9	
HYD-73	4	HARVARD WAY	1	6	4.6	
HYD-74	40	NORTHERN BOULEVARD @ 48TH STREET	1	12	5.9	REPLACE 12x12x8 TEE & 12" RGV (REPLACES V-58)
HYD-75**	39	BASIN FRONT DRIVE @ 48TH STREET	2	8	10.3	NEW 8" RGV
HYD-76	41	NORTHERN BOULEVARD @ 52ND STREET	2 (REPLACES V-61)	12	9.4	
HYD-77	44	56TH STREET	1	8	4.5	
HYD-78	44	SHORE STREET	1	8	2.9	
HYD-79**	47	60TH @ SHORE STREET	2	6	8.0	NEW 8" RGV
HYD-80	43	NORTHERN BOULEVARD	1	12	6.0	
HYD-81	46	55TH STREET	1	8	5.8	
HYD-82	48	NORTHERN BOULEVARD	1	12	7.0	
HYD-83	48	NORTHERN BOULEVARD @ 59TH STREET	2 (REPLACES V-73)	12	9.8	
HYD-84**	47	64TH STREET	1	8	3.5	
HYD-85	60	BASIN STREET	1	8	3.2	
HYD-86	60	BASIN STREET	1	8	4.0	
HYD-87	61	BASIN STREET @ HARBOR STREET	1	8	9.3	
HYD-88	52	OVERLOOK STREET	1	6	2.9	
HYD-89	52	64TH STREET	1	8	15.2	
HYD-90	53	61ST STREET	1	6	4.0	
HYD-91	54	NORTHERN BOULEVARD @ 63RD STREET	1	12	8.0	
HYD-92	55	63RD STREET	1	6	4.5	
HYD-93	54	NORTHERN BOULEVARD @ 65TH STREET	1	12	7.5	
HYD-94	57	67TH STREET	1	6	3.0	
HYD-95	54	NORTHERN BOULEVARD	1	12	7.7	
HYD-96**	59	NORTHERN BOULEVARD @ 71ST STREET	1	12	6.2	

\* DISTANCE EQUALS DISTANCE FROM HYDRANT TO HYDRANT GATE VALVE

\*\* HYDRANT TO BE RELOCATED AWAY FROM UTILITY POLE. LOCATION TO BE DETERMINED IN THE FIELD BY CITY OF NEWBURYPORT DEPARTMENT OF PUBLIC SERVICES



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SCALE:  
N.T.S.

PLUM ISLAND HYDRANT REPLACEMENT  
HYDRANT, ZONE, AND VALVE  
TABLES I

Sheet No.  
6 OF 60  
TA-1

### HYDRANT SUMMARY TABLE

HYDRANT	ZONE	HYDRANT LOCATION	HYDRANT TYPE	MAIN SIZE (INCHES)	DISTANCE* (FEET)	ADDITIONAL COMPONENTS
HYD-97**	58	73RD STREET	1	8	10.8	
HYD-98	58	RESERVATION TERRACE	1	8	14.9	
HYD-99**	61	76TH STREET	2 (REPLACES V-83)	12	4.5	
HYD-100**	61	BARKER STREET	1	8	4.0	REPLACE 8x4 REDUCER
HYD-101	5	FORDHAM WAY @ HARVARD WAY	1	8	9.2	
HYD-102	65	77TH STREET @ NORTH RESERVATION TERRACE	1	6	15.0	REPLACE (2) 6" 1/8 HOR. BENDS
HYD-103	65	NORTH RESERVATION TERRACE	1	6	14.0	
HYD-104	65	POINT PARKING LOT	1	6	7.5	
HYD-105	65	POINT PARKING LOT	1	8	5.5	
HYD-106	64	NORTHERN BOULEVARD	1	12	9.5	
HYD-107**	66	NORTHERN BOULEVARD	1	12	20.0	
HYD-108	66	POINT ROAD @ 82ND STREET	1	8	10.0	(2) 8" 1/8 BENDS, 8x4 REDUCER & RECONNECT 2" PE
HYD-109	62	HARBOR STREET	1	8	2.9	
HYD-110	8	FORDHAM WAY	1	8	5.4	RECONNECT 1" PE SERVICE
HYD-111	66	NORTHERN BOULEVARD @ 78TH STREET	1	12	10.5	
HYD-112**	63	HARBOR STREET	1	8	4.8	REPLACE 8X4 REDUCER
HYD-113**	62	HARBOR STREET	1	8	4.3	
HYD-114	49	RESERVATION TERRACE	1	8	4.0	
HYD-115	55	RESERVATION TERRACE @ 63RD STREET	1	8	4.5	
HYD-116	43	53RD STREET	1	8	2.3	REPLACE 8X4 REDUCER
HYD-117	43	51ST STREET	1	8	2.5	
HYD-118**	41	49TH STREET	1	8	3.0	REPLACE 8X4 REDUCER
HYD-119**	42 & 43	54TH STREET	1	8	2.8	
HYD-120	45	58TH STREET	1	6	10.0	
HYD-121**	47	62ND STREET	1	6	2.3	
HYD-122	3	FORDHAM WAY	1	8	6.0	
HYD-123	17	MCLEOD AVENUE	1	8	7.8	REPLACE 8x4 REDUCER
HYD-124	34	16TH STREET	1	6	8.0	
HYD-125	46	55TH STREET	1	8	8.5	
HYD-126**	50	57TH STREET	1	6	2.9	
HYD-127	51	59TH STREET	1	6	4.9	
HYD-128	56	69TH STREET	1	6	3.0	
HYD-129	9	DARTMOUTH WAY	1	6	10.4	
HYD-130	67	PLUM ISLAND TURNPIKE	3 (REPLACES V-118 & V-119)	12	6.8	
HYD-131	67	PLUM ISLAND TURNPIKE	3 (REPLACES V-120 & V-121)	12	11.8	
HYD-132	67	PLUM ISLAND TURNPIKE	3 (REPLACES V-122 & V-123)	12	8.9	
HYD-133	67	PLUM ISLAND TURNPIKE	3 (REPLACES V-124 & V-125)	12	13.0	
HYD-134	67	PLUM ISLAND TURNPIKE	3 (REPLACES V-126 & V-127)	12	5.5	
HYD-135	67	PLUM ISLAND TURNPIKE	3 (REPLACES V-128 & V-129)	12	7.4	
HYD-136	67	PLUM ISLAND TURNPIKE	3 (REPLACES V-130 & V-131)	12	7.5	
HYD-137	67	PLUM ISLAND TURNPIKE	3 (REPLACES V-132 & V-133)	12	6.5	
HYD-138	67	PLUM ISLAND TURNPIKE	3 (REPLACES V-134 & V-135)	12	7.8	
HYD-139	67	PLUM ISLAND TURNPIKE	3 (REPLACES V-136 & V-137)	12	8.0	
HYD-140	67	PLUM ISLAND TURNPIKE	3 (REPLACES V-138 & V-139)	12	6.0	
HYD-141	67	PLUM ISLAND TURNPIKE	3 (REPLACES V-140 & V-141)	12	9.0	
HYD-142	67	PLUM ISLAND TURNPIKE	3 (REPLACES V-142 & V-143)	12	6.5	
HYD-143	67	PLUM ISLAND TURNPIKE	3 (REPLACES V-144 & V-145)	12	8.5	
HYD-144	67	PLUM ISLAND TURNPIKE	3 (REPLACES V-148 & V-149)	12	11.5	
HYD-145	67	PLUM ISLAND TURNPIKE	3 (REPLACES V-150 & V-151)	12	13.0	

\* DISTANCE EQUALS DISTANCE FROM HYDRANT TO HYDRANT GATE VALVE

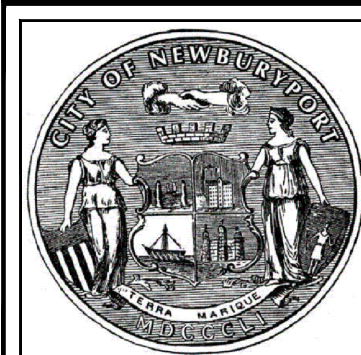
\*\* HYDRANT TO BE RELOCATED AWAY FROM UTILITY POLE. LOCATION TO BE DETERMINED IN THE FIELD BY CITY OF NEWBURYPORT DEPARTMENT OF PUBLIC SERVICES

### HYDRANT DISTANCE TABLE

HYDRANT	DISTANCE*	HYDRANT	DISTANCE*	HYDRANT	DISTANCE*	HYDRANT	DISTANCE*
HYD-116	2.3	HYD-127	4.9	HYD-26	7.0	HYD-76	9.4
HYD-121	2.3	HYD-10	5.0	HYD-82	7.0	HYD-68	9.5
HYD-117	2.5	HYD-15	5.0	HYD-8	7.3	HYD-106	9.5
HYD-18**	2.8	HYD-9	5.1	HYD-12	7.3	HYD-33	9.8
HYD-119**	2.8	HYD-60	5.2	HYD-24	7.3	HYD-70	9.8
HYD-61	2.9	HYD-40	5.3	HYD-53	7.3	HYD-83	9.8
HYD-78	2.9	HYD-110	5.4	HYD-135	7.4	HYD-108	10.0
HYD-88	2.9	HYD-55	5.5	HYD-14	7.5	HYD-120	10.0
HYD-109	2.9	HYD-105	5.5	HYD-32	7.5	HYD-69	10.3
HYD-126**	2.9	HYD-134	5.5	HYD-93	7.5	HYD-75**	10.3
HYD-49	3.0	HYD-22	5.6	HYD-104	7.5	HYD-129	10.4
HYD-94	3.0	HYD-52	5.6	HYD-136	7.5	HYD-35**	10.5
HYD-118**	3.0	HYD-20	5.7	HYD-95	7.7	HYD-111	10.5
HYD-128	3.0	HYD-5	5.8	HYD-57**	7.8	HYD-97**	10.8
HYD-44**	3.2	HYD-6	5.8	HYD-123	7.8	HYD-65	11.0
HYD-85	3.2	HYD-81	5.8	HYD-138	7.8	HYD-13	11.3
HYD-1	3.3	HYD-48	5.9	HYD-16	8.0	HYD-62	11.3
HYD-29	3.5	HYD-74	5.9	HYD-67	8.0	HYD-144	11.5
HYD-84**	3.5	HYD-34	6.0	HYD-79**	8.0	HYD-131	11.8
HYD-72	3.9	HYD-46	6.0	HYD-91	8.0	HYD-11	12.0
HYD-47	4.0	HYD-80	6.0	HYD-124	8.0	HYD-38	12.1
HYD-86	4.0	HYD-122	6.0	HYD-139	8.0	HYD-50	12.1
HYD-90	4.0	HYD-140	6.0	HYD-17	8.1	HYD-36	12.2
HYD-100**	4.0	HYD-27	6.1	HYD-59	8.3	HYD-43	12.5
HYD-114	4.0	HYD-96**	6.2	HYD-45	8.5	HYD-28	13.0
HYD-64	4.3	HYD-3	6.3	HYD-66	8.5	HYD-133	13.0
HYD-113**	4.3	HYD-19	6.5	HYD-71	8.5	HYD-145	13.0
HYD-56	4.5	HYD-137	6.5	HYD-125	8.5	HYD-103	14.0
HYD-58	4.5	HYD-142	6.5	HYD-143	8.5	HYD-30	14.5
HYD-77	4.5	HYD-4**	6.6	HYD-23	8.7	HYD-98	14.9
HYD-92	4.5	HYD-31	6.6	HYD-39	8.8	HYD-102	15.0
HYD-99**	4.5	HYD-2	6.8	HYD-54	8.8	HYD-89	15.2
HYD-115	4.5	HYD-7	6.8	HYD-132	8.9	HYD-42	16.7
HYD-73	4.6	HYD-51	6.8	HYD-141	9.0	HYD-107**	20.0
HYD-37**	4.7	HYD-130	6.8	HYD-41	9.2	AVERAGE	7.3
HYD-25	4.8	HYD-63**	6.9	HYD-101	9.2		
HYD-112**	4.8	HYD-21	7.0	HYD-87	9.3		

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CITY OF NEWBURYPORT  
DEPARTMENT OF PUBLIC SERVICES  
16A PERRY WAY  
NEWBURYPORT, MA 01950

Rev No	Date	Drawn	Chkd	Description

Designed By:  
D. GAGNON  
Checked By:  
J.E. WHITE  
Date:

SCALE:  
N.T.S.

### PLUM ISLAND HYDRANT REPLACEMENT HYDRANT, ZONE, AND VALVE TABLES II

Sheet No.  
6 OF 60  
TA-2

**ZONE SUMMARY TABLE**

ZONE	HYDRANTS INCLUDED	TOTAL NO. HYDRANTS	VALVES TO BE SHUT DOWN	INSTALL ADDITIONAL ISOLATION VALVES	TOTAL NO. VALVES
ZONE 1	HYD-1, HYD-2, HYD-3	3	V-1, V-2	PV-1	1
ZONE 2	HYD-24, HYD-25	2	V-1, V-3		0
ZONE 3	HYD-23, HYD-122	2	V-5, V-7		0
ZONE 4	HYD-26, HYD-73	2	V-8, V-9		0
ZONE 5	HYD-27, HYD-32, HYD-101	3	V-7, V-9, V-10, V-11, V-15		0
ZONE 6	HYD-28, HYD-29	2	V-12, V-17		0
ZONE 7	HYD-30	1	V-11, V-12, V-13		0
ZONE 8	HYD-4, HYD-31, HYD-110	3	V-8, V-14, V-16, V-17, V-104		1
ZONE 9	HYD-50, HYD-51, HYD-52, HYD-129	4	V-19		0
ZONE 10	HYD-39, HYD-53	2	V-20, V-23		0
ZONE 11	HYD-35, HYD-54	2	V-21, V-22, V-23, V-105	PV-61	1
ZONE 12	HYD-41, HYD-33, HYD-34	3	V-22, V-24		0
ZONE 13	HYD-42	1	V-32, V-105		0
ZONE 14*/15/16	HYD-36, HYD-37, HYD-38, HYD-40	4	V-27, V-30, V-29	PV-3, PV-32, PV-33	3
ZONE 15 (SUB ZONE 14)	HYD-37	1	V-28		0
ZONE 16 (SUB ZONE 14)	HYD-40	1	V-106		0
ZONE 17	HYD-5, HYD-6, HYD-7, HYD-8, HYD-45, HYD-123	6	V-26, V-34	PV-2	1
ZONE 18	HYD-9	1	V-34, V-35	PV-5, PV-6, PV-7	3
ZONE 19	HYD-10, HYD-12	2	V-35, V-36	PV-8, PV-9, PV-10, PV-11	4
ZONE 20/23/24	HYD-13, HYD-14	2	V-36, V-37	PV-12, PV-13, PV-14, PV-15, PV-16	5
ZONE 21	HYD-15, HYD-16, HYD-17, HYD-46	4	V-37, V-38	PV-17, PV-18, PV-19, PV-20, PV-21, PV-22	6
ZONE 22	HYD-18	1	V-38, V-41	PV-23, PV-24	2
ZONE 23 (SUB ZONE 22)	HYD-47	1	V-39		0
ZONE 24 (SUB ZONE 22)	HYD-48	1	V-40		0
ZONE 25	HYD-19, HYD-20	2	V-41, V-42	PV-25, PV-26, PV-27, PV-28	4
ZONE 26/27	HYD-21, HYD-22, HYD-49	3	V-42, V-44	PV-29, PV-30	2
ZONE 27 (SUB ZONE 26)	HYD-22, HYD-49	2	V-43		0
ZONE 28	HYD-43, HYD-44	2	V-29, V-46, V-48		0
ZONE 29	HYD-55	1	V-31, V-46, V-49	PV-34	1
ZONE 30/31	HYD-56, HYD-57, HYD-58	3	V-48, V-49, V-107	PV-35	1
ZONE 31 (SUB ZONE 30)	HYD-58	1	V-114		0

\* PROVIDE TEMPORARY WATER SUPPLY TO THE PROPERTIES LISTED IN THE SPECIFICATIONS WITHIN THIS ZONE.

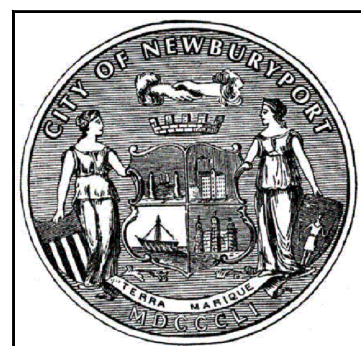
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**ZONE SUMMARY TABLE**

ZONE	HYDRANTS INCLUDED	TOTAL NO. HYDRANTS	VALVES TO BE SHUT DOWN	INSTALL ADDITIONAL ISOLATION VALVES	TOTAL NO. VALVES
ZONE 32	HYD-60, HYD-61	2	V-50, V-52		0
ZONE 33	HYD-59	1	V-53, V-107		0
ZONE 34*	HYD-62, HYD-63, HYD-64, HYD-124	4	V-52, V-53, V-54, V-115	PV-36, PV-37	2
ZONE 35	HYD-65, HYD-66	2	V-54, V-55, V-108	PV-38, PV-39	2
ZONE 36	HYD-67, HYD-68, HYD-69	3	V-55, V-56		0
ZONE 37	HYD-70, HYD-71	2	V-56, V-108	PV-40, PV-41, PV-42, PV-43	4
ZONE 38	HYD-72	1	V-57, V-60, V-109	PV-44, PV-45,	2
ZONE 39	HYD-75	1	V-59, V-60		0
ZONE 40	HYD-74	1	V-58, V-59, V-61	PV-48, PV-50	2
ZONE 41	HYD-76, HYD-118	2	V-61, V-62	PV-49, PV-51,	2
ZONE 42	HYD-119	1	V-63		0
ZONE 43/42	HYD-80, HYD-116, HYD-117, HYD-119	3	V-62, V-63, V-64, V-67, V-68, V-110	PV-52	1
ZONE 44	HYD-77, HYD-78	2	V-64, V-111, V-116		0
ZONE 45	HYD-120	1	V-67, V-111		0
ZONE 46	HYD-81, HYD-125	2	V-68, V-95		0
ZONE 47	HYD-79, HYD-84, HYD-121	3	V-69, V-71, V-116, V-89, V-90	PV-62, PV-63	2
ZONE 48	HYD-82, HYD-83	2	V-69, V-70, V-71, V-72, V-73, V-110		0
ZONE 49	HYD-114	1	V-95, V-96, V-97, V-112		0
ZONE 50	HYD-126	1	V-70, V-96		0
ZONE 51	HYD-127	1	V-72, V-112		0
ZONE 52	HYD-88, HYD-89	2	V-74, V-77, V-89	PV-4	1
ZONE 53	HYD-90	1	V-75, V-98		0
ZONE 54	HYD-91, HYD-93, HYD-95	3	V-76, V-77, V-78, V-79, V-80	PV-53, PV-54	2
ZONE 55	HYD-92, HYD-115	2	V-78, V-97, V-98, V-100		0
ZONE 56	HYD-128	1	V-81, V-102		0
ZONE 57	HYD-94	1	V-79, V-101		0
ZONE 58	HYD-97, HYD-98	2	V-82, V-100, V-101, V-102		0
ZONE 59	HYD-96	1	V-80, V-81, V-82, V-103	PV-55, PV-56	2
ZONE 60	HYD-85, HYD-86	2	V-90, V-91		0
ZONE 61	HYD-87, HYD-99, HYD-100	3	V-83, V-91, V-92, V-45	PV-57	1
ZONE 62	HYD-109, HYD-113	2	V-87, V-92, V-94	PV-59	1
ZONE 63	HYD-112	1	V-94		0
ZONE 64	HYD-106	1	V-83, V-85, V-86, V-103		0
ZONE 65	HYD-102, HYD-103, HYD-104, HYD-105	4	V-85, V-88	PV-58	1
ZONE 66*	HYD-107, HYD-108, HYD-111	3	V-86, V-87, V-88	PV-60	1
ZONE 67	HYD-11, HYD-130, HYD-131, HYD-132, HYD-133, HYD-134, HYD-135, HYD-136, HYD-137, HYD-138, HYD-139, HYD-140, HYD-141, HYD-142, HYD-143, HYD-144, HYD-145,	16	SEE NOTE 2		0
ZONE 68				PV-46, PV-47	1
ZONE 68				PV-31	1

 FIELD CHANGE



CITY OF NEWBURYPORT  
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Rev No	Date	Drawn	Chkd	Description
1	09/29/17	DEG	JEW	FIELD CHANGE - ZONES ADDED
Revisions				

Designed By:  
D. GAGNON  
  
Checked By:  
J.E. WHITE  
  
Date:

SCALE:  
N.T.S.

**PLUM ISLAND HYDRANT REPLACEMENT  
HYDRANT, ZONE, AND VALVE  
TABLES III**

Sheet No.  
7 OF 60  
**TA-3**

PROPOSED ISOLATION VALVE TABLE

PV No.	ZONE	MAJOR COMPONENTS
1	1	4" GV, 8x8x4 TEE & 8" RGV (REPLACES V-2)
2	17	8" INLINE RGV
3	14	12" INLINE RGV
4	52	6" INLINE RGV
5	18	4" INLINE RGV
6	18	4" INLINE RGV
7	18	4" INLINE RGV
8	19	4" INLINE RGV
9	19	4" INLINE RGV
10	19	4" INLINE RGV
11	19	4" INLINE RGV
12	20	4" INLINE RGV
13	20	4" INLINE RGV
14	20	4" INLINE RGV
15	20	4" INLINE RGV
16	20	4" INLINE RGV
17	21	8" INLINE RGV
18	21	8" INLINE RGV
19	21	4" INLINE RGV
20	21	4" INLINE RGV
21	21	4" INLINE RGV
22	21	4" INLINE RGV
23	22	4" INLINE RGV
24	22	4" INLINE RGV
25	25	4" INLINE RGV
26	25	4" INLINE RGV
27	25	4" INLINE RGV
28	25	4" INLINE RGV
29	26	4" INLINE RGV
30	26	4" INLINE RGV
31	69	4" INLINE RGV
32	14	4" INLINE RGV
33	14	4" INLINE RGV

PV No.	ZONE	MAJOR COMPONENTS
34	29	4" INLINE RGV
35	30	4" INLINE RGV
36	34	6" INLINE RGV
37	34	6" GV, 12x12x6 TEE & 12" RGV (REPLACES V-53)
38	35	4" INLINE RGV
39	35	4" INLINE RGV
40	37	4" GV, 12x12x4 TEE & 12" RGV (REPLACES V-56)
41	37	4" GV & 12x12x4 TEE
42	37	4" GV & 12x12x4 TEE
43	37	4" GV & 12x12x4 TEE
44	38	8" INLINE RGV
45	38	6" INLINE RGV
46	68	4" INLINE RGV
47	68	4" INLINE RGV
48	70	4" INLINE RGV
49	41	4" GV & 12x12x4 TEE (CONNECT TO HYD-76)
50	40	4" GV, 12x12x4 TEE & REMOVE V-61
51	41	8" INLINE RGV
52	43	8" INLINE RGV
53	54	4" INLINE RGV
54	54	4" INLINE RGV
55	59	4" INLINE RGV
56	59	4" INLINE RGV
57	61	8" INLINE RGV
58	65	6" INLINE RGV
59	62	8" INLINE RGV
60	66	8" INLINE RGV
61	11	4" INLINE RGV
62	47	6" INLINE RGV
63	47	8" INLINE RGV

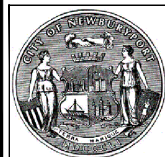
 FIELD CHANGE

MISCELLANEOUS ISOLATION VALVE TABLE

PV No.	VALVES TO BE SHUTDOWN	LOCATION
PV-31	V-44, V-45	END OF OLD POINT ROAD
PV-46	V-57, V-58, V-108	BETWEEN ZONES 37 & 40
PV-47	V-57, V-58, V-108	BETWEEN ZONES 37 & 40

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Rev No	Date	Drawn	Chkd	Description
1	09/29/17	DEG	JEW	FIELD CHANGE - ZONES ADDED
Revisions				

Designed By:  
D. GAGNON  
  
Checked By:  
J.E. WHITE  
  
Date:

SCALE:  
N.T.S.

PLUM ISLAND HYDRANT REPLACEMENT  
HYDRANT, ZONE, AND VALVE  
TABLES IV

Sheet No.  
8 OF 60

TA-4