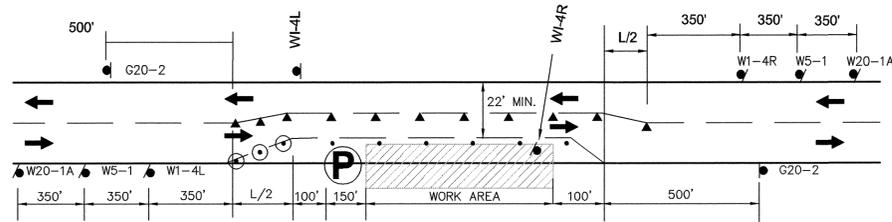
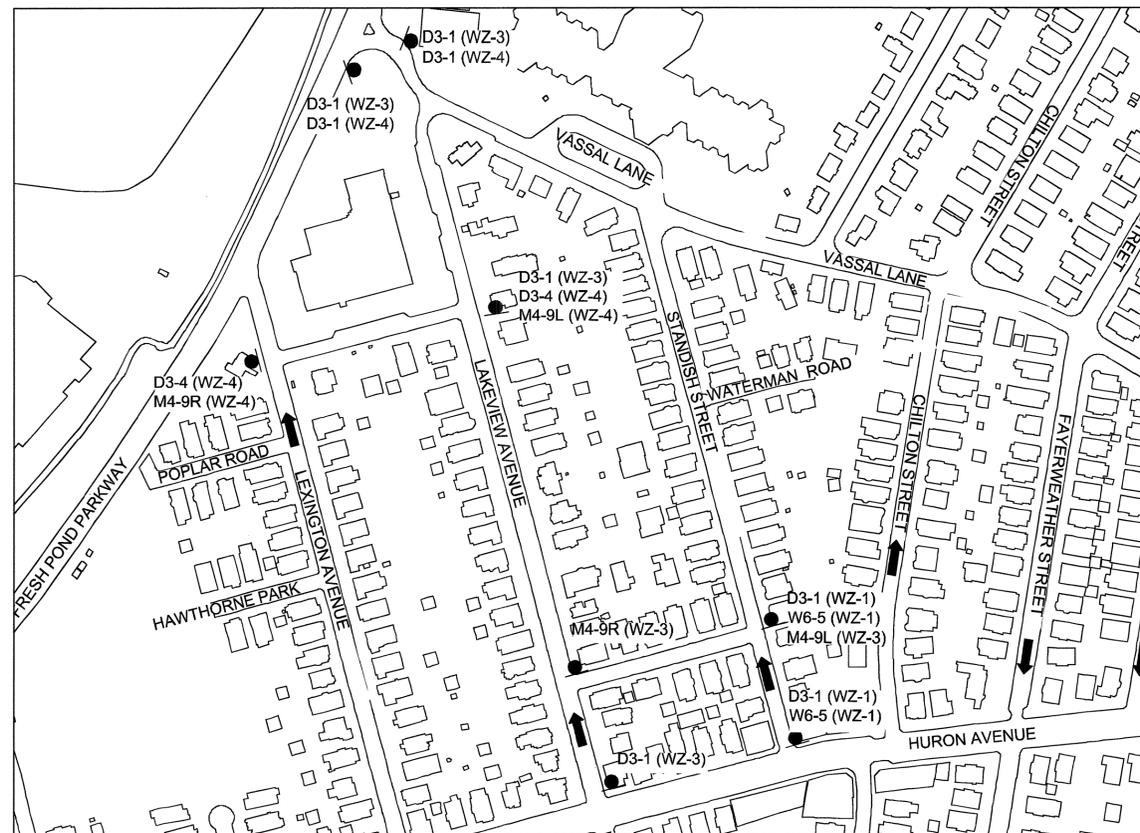
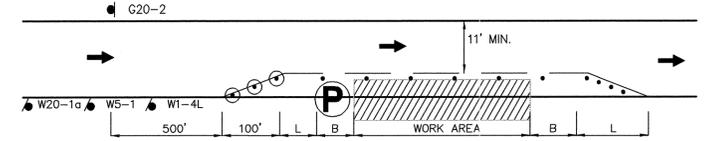


DETOUR PLAN



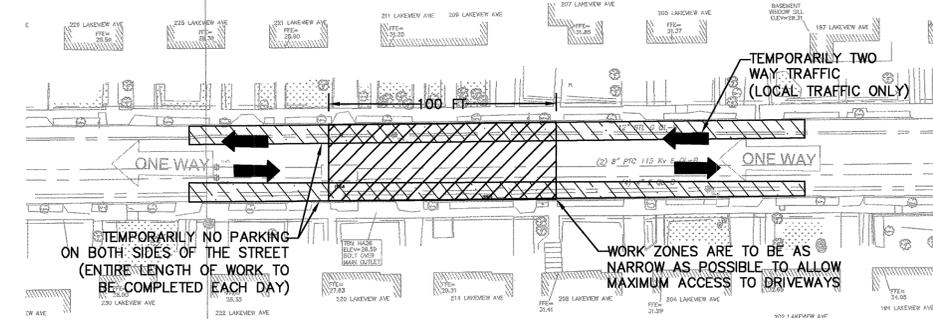
TYPICAL TWO-WAY STREET LANE SHIFT MHD **T-7**

NOTE: THIS DETAIL SHOWS A RIGHT LANE CLOSURE. THIS DETAIL CAN ALSO BE USED FOR LEFT LANE CLOSURES, WITH THE SIGN PLACEMENT REVERSED AS APPROPRIATE.
 L= (WS)²/60 FOR 40 MPH OR LESS W=WIDTH OF OFFSET (FT)
 L= WS FOR 45 MPH OR MORE S=POSTED SPEED LIMIT (MPH)
 B= BUFFER ZONE

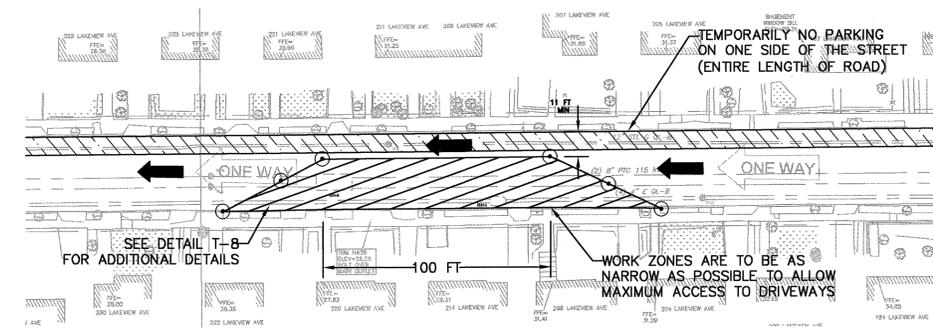


TYPICAL ONE-WAY STREET LANE SHIFT **T-8**

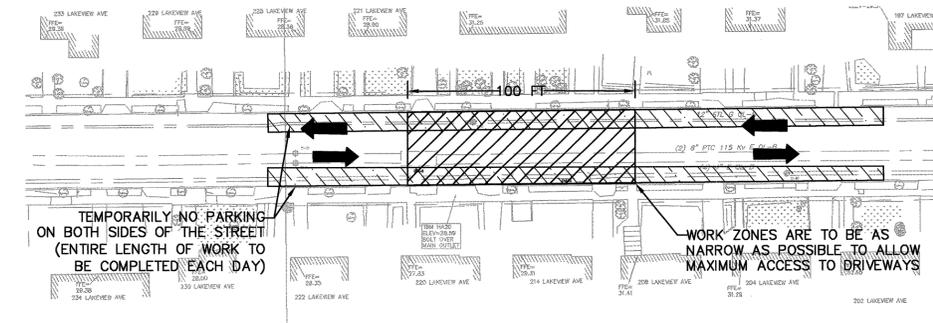
NOTE: THIS DETAIL SHOWS A RIGHT LANE CLOSURE. THIS DETAIL CAN ALSO BE USED FOR LEFT LANE CLOSURES, WITH THE SIGN PLACEMENT REVERSED AS APPROPRIATE.
 L= (WS)²/60 FOR 40 MPH OR LESS W=WIDTH OF OFFSET (FT)
 L= WS FOR 45 MPH OR MORE S=POSTED SPEED LIMIT (MPH)
 B= BUFFER ZONE



TYPICAL ONE-WAY TRAFFIC PLAN LESS THAN 11 FT BETWEEN CURBING AND EDGE OF WORK ZONE **T-9**



TYPICAL ONE-WAY TRAFFIC PLAN MORE THAN 11 FT BETWEEN CURBING AND EDGE OF WORK ZONE **T-10**

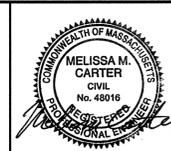


TYPICAL TWO-WAY TRAFFIC PLAN LESS THAN 11 FT BETWEEN CURBING AND EDGE OF WORK ZONE **T-11**

TRAFFIC DETAIL LOCATIONS				
STREET	TRAFFIC FLOW	FROM STA*	TO STA*	TYPICAL DETAIL
GROZIER	2-WAY	STA 200+63	STA 202+00	T11
GROZIER	2-WAY	STA 202+75	STA 204+50	T11
GROZIER	2-WAY	STA 204+50	STA 211+60	T6
HAWTHORNE PARK	2-WAY	STA 40+50	STA 42+50	T11
HURON AVENUE	2-WAY	-	-	SEE SHEET TMP-3
LARCH ROAD	1-WAY	STA 100+61	STA 102+97	T10
LARCH ROAD	1-WAY	STA 102+97	STA 105+50	T9
LARCH ROAD	1-WAY	STA 106+00	STA 110+00	T9
LAKEVIEW AVENUE	1-WAY	STA 404+10	STA 412+74	T10
LAKEVIEW AVENUE	2-WAY	STA 413+40	STA 419+74	T6
LEXINGTON AVENUE	1-WAY	STA 302+00	STA 310+80	T9
LEXINGTON AVENUE	2-WAY	STA 311+44	STA 316+70	T11
MALCOLM ROAD	2-WAY	STA 50+96	STA 53+50	T11
POPLAR ROAD	2-WAY	STA 30+75	STA 33+25	T11
STANDISH STREET	1-WAY	STA 500+00	STA 503+50	T10
STANDISH STREET	1-WAY	STA 503+50	STA 510+09	T9
VASSAL LANE	1-WAY	-	-	SEE SHEETS TMP-1 & TMP-2
WATERMAN ROAD	2-WAY	STA 60+50	STA 62+07	T11

*NOTE: ALL STATIONING IS APPROXIMATE. ACTUAL EXTENT OF SPECIFIC TRAFFIC MANAGEMENT TO BE COORDINATED IN THE FIELD

CONFORMED SET



Scale	NOT TO SCALE
Date	SEPTEMBER 2012
Job No.	1010691
Designed by	AMF
Drawn by	ZSH
Checked by	CRO
Approved by	MMC



CITY OF CAMBRIDGE, MASSACHUSETTS	
HURON A SEWER SEPARATION PROJECT	
CONTRACT NO. 8A	
TRAFFIC GENERAL	
TYPICAL DETAILS AND DETOUR INFORMATION	

Sheet No.	TG-2
File No.	

VASSAL LANE GENERAL NOTES:

1. THE FOLLOWING SUGGESTED TRAFFIC MANAGEMENT AND CONSTRUCTION PHASING PLAN IS INTENDED TO BE A GUIDE ONLY. THE CONTRACTOR SHALL SUBMIT A DETAILED PROPOSED TRAFFIC MANAGEMENT AND CONSTRUCTION PHASING PLAN AT LEAST 30 DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES ON VASSAL LANE.

2. ALL WORK ALONG VASSAL LANE SHALL BE CARRIED OUT DURING THE MONTHS OF JULY AND AUGUST TO AVOID DISTURBING THE FUNCTIONALITY OF THE TOBIN SCHOOL.

WORK ZONE 1 TRAFFIC MANAGEMENT NOTES:

1. ONE-WAY TRAFFIC SHALL BE MAINTAINED ALONG THE NORTH SIDE OF VASSAL LANE WHILE WORK ALONG THE SOUTH SIDE OF VASSAL LANE IS COMPLETED.

2. IF NECESSARY TO ALLOW ONE-WAY TRAVEL AT THE NORTH SIDE OF THE STREET, CURB AT NORTH SIDE OF STREET SHALL BE REMOVED AND TEMPORARILY REPLACED WITH BITUMINOUS CURB ALONG NORTH SIDE (PROVIDING A 4' WIDE SIDEWALK).

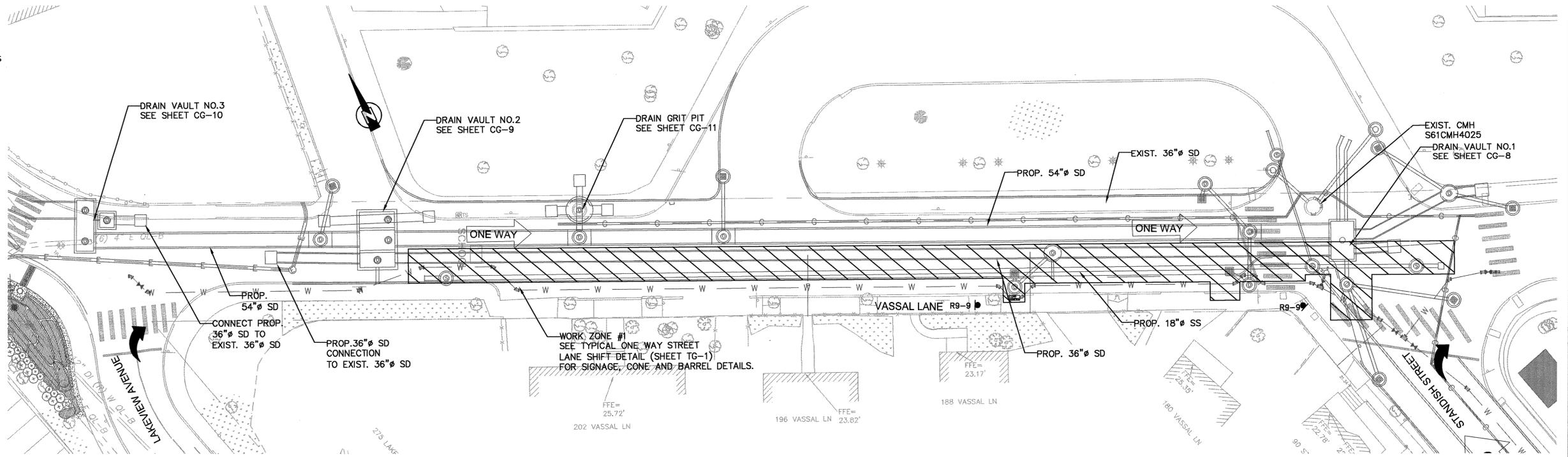
3. WHERE 18" Ø SS EXTENDS IN FRONT OF STANDISH STREET, CONTRACTOR TO MAINTAIN AT LEAST ONE LANE OF TRAFFIC FLOW FROM STANDISH TO VASSAL, OR SHALL POST TEMPORARY "NO THROUGH TRAFFIC" NOTICES ON STANDISH.

WORK ZONE 1 CONSTRUCTION PHASING NOTES:

1. INSTALLATION OF THE 18" Ø SEWER ALONG THE LENGTH OF VASSAL LANE SHALL BE COMPLETED IN THIS WZ-1, ALONG WITH REPLACING THE 36" Ø SD FROM DRAIN VAULT NO.1 WEST TO DRAIN VAULT NO.2. WORK ALSO INCLUDES NEW MH AND 15" Ø RCP CONNECTION TO STANDISH SD.

2. TEMPORARILY CONNECT PROP. 36" Ø SD TO EXIST. WITHIN WZ-1.

3. TEMPORARILY BYPASS 33" Ø SD UPSTREAM OF DRAIN VAULT NO.1 INTO ADJACENT DRAIN MANHOLE S61CMH4025 DURING REPLACEMENT OF 36" Ø SD DOWNSTREAM AND DURING CONSTRUCTION OF DRAIN VAULT NO.1



**VASSAL LANE
WORK ZONE 1**

WORK ZONE 2 TRAFFIC MANAGEMENT NOTES:

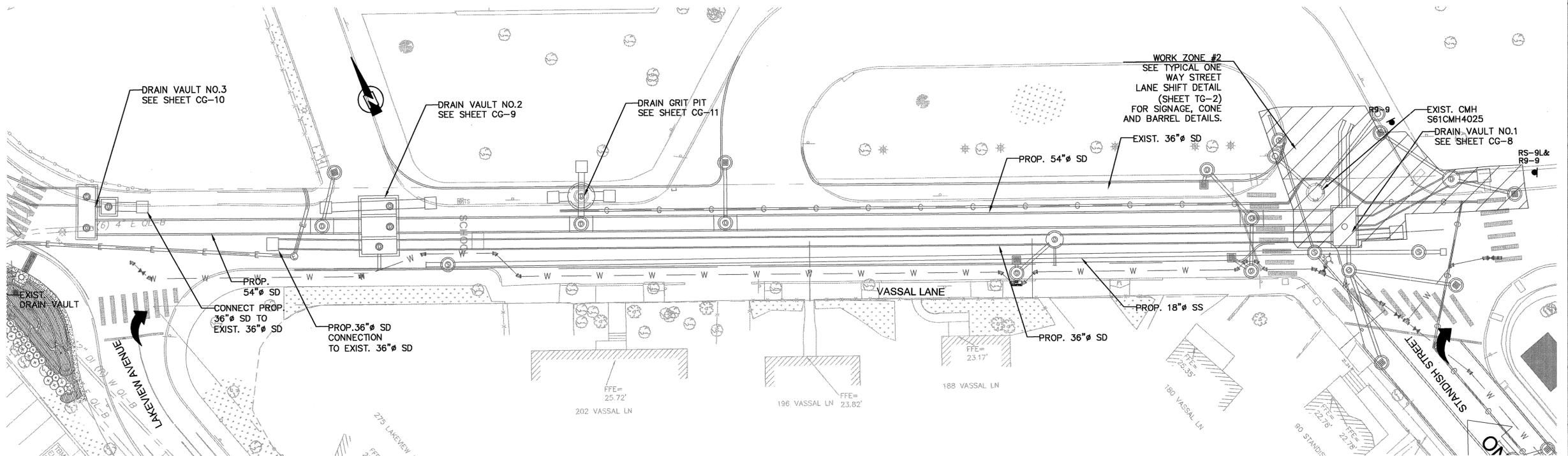
1. ONE-WAY TRAFFIC SHALL BE MAINTAINED ALONG THE SOUTH SIDE OF VASSAL LANE AT THE INTERSECTION WITH STANDISH.

WORK ZONE 2 CONSTRUCTION PHASING NOTES:

1. THE SANITARY CONNECTION TO THE TOBIN SCHOOL SHALL BE COMPLETED WITHIN WZ-2, ALONG WITH THE REMAINING DRAIN AND SEWER INFRASTRUCTURE IN THAT AREA, INCLUDING INSTALLATION OF DRAIN VAULT NO.1.

2. CONNECTIONS BETWEEN UPSTREAM 36" Ø SD, 15" Ø SD FROM STANDISH, (2) 12" Ø SDS FROM TOBIN SCHOOL AND PROPOSED 36" Ø SD DOWNSTREAM SHALL BE MADE. LEAVE STUB OUT FOR PROPOSED 54" STORMDRAIN DOWNSTREAM AND PLUG.

3. WITH DRAIN VAULT NO.1 INSTALLED, ALL SD FLOW FROM VASSAL AND STANDISH STREETS SHALL BE TEMPORARILY ROUTED THROUGH THE NEW 36" Ø SD DOWNSTREAM OF DRAIN VAULT NO.1.



**VASSAL LANE
WORK ZONE 2**

CONFORMED SET



285 SUMMER STREET, SUITE 200
BOSTON, MASSACHUSETTS 02210
TEL: (617) 314-7100



Scale	1"=20'			
Date	SEPTEMBER 2012			
Job No.	1010691			
Designed by	AMF			
Drawn by	ZSH			
Checked by	CRO	No.	Description	Date
Approved by	MMC		REVISIONS	



CITY OF CAMBRIDGE, MASSACHUSETTS
HURON A SEWER SEPARATION PROJECT
CONTRACT NO. 8A
TRAFFIC MANAGEMENT PLANS
VASSAL LANE WORK ZONES 1 & 2

Sheet No.
TMP-1
File No.

VASSAL LANE GENERAL NOTES:

1. THE FOLLOWING SUGGESTED TRAFFIC MANAGEMENT AND CONSTRUCTION PHASING PLAN IS INTENDED TO BE A GUIDE ONLY. THE CONTRACTOR SHALL SUBMIT A DETAILED PROPOSED TRAFFIC MANAGEMENT AND CONSTRUCTION PHASING PLAN AT LEAST 30 DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES ON VASSAL LANE.

2. ALL WORK ALONG VASSAL LANE SHALL BE CARRIED OUT DURING THE MONTHS OF JULY AND AUGUST TO AVOID DISTURBING THE FUNCTIONALITY OF THE TOBIN SCHOOL.

WORK ZONE 3 TRAFFIC MANAGEMENT NOTES:

1. ONE-WAY TRAFFIC IS MAINTAINED ALONG THE SOUTH SIDE OF VASSAL LANE WHILE WORK ALONG THE NORTH SIDE OF VASSAL LANE IS COMPLETED. CONTRACTOR SHALL MINIMIZE DISRUPTION IN ACCESS TO TOBIN SCHOOL DRIVEWAYS.

2. INSTALLATION OF DRAIN VAULT NO.2 AND PROPOSED 36" SD CONNECTION WILL REQUIRE TEMPORARY CLOSURE OF VASSAL LANE. SEE PROPOSED DETOUR PLAN SHEET TG-2.

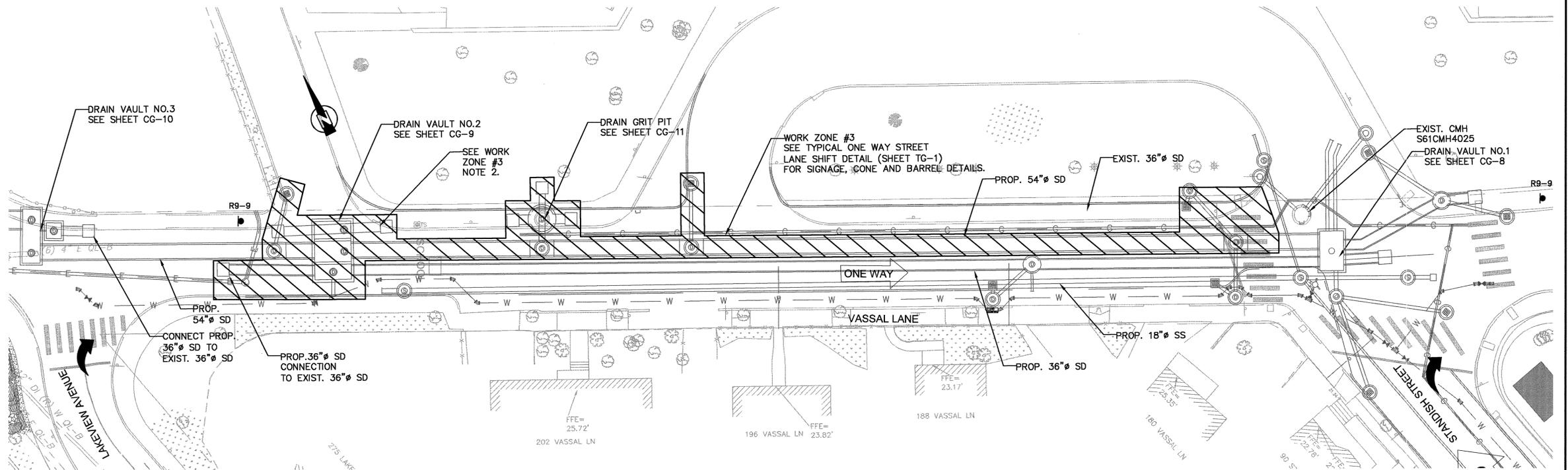
WORK ZONE 3 CONSTRUCTION PHASING NOTES:

3. INSTALL 54" SD ALONG VASSAL LANE, INCLUDING ALL REQUIRED GRIT PITS, MANHOLES, AND CATCH BASIN CONNECTIONS ON THE NORTH SIDE OF THE STREET AS SHOWN.

4. INSTALL DRAIN VAULT NO.2 WITH ALL 36" SD AND 54" SD INLET AND OUTLET CONNECTIONS AS SHOWN.

5. INSTALL 36" SD DI AND CB CONNECTIONS WEST OF DRAIN VAULT NO.2.

6. MAINTAIN FLOW BYPASS THROUGH SOUTHERN 36" SD THROUGH DRAIN VAULT NO.2.



**VASSAL LANE
WORK ZONE 3**

WORK ZONE 4 TRAFFIC MANAGEMENT NOTES:

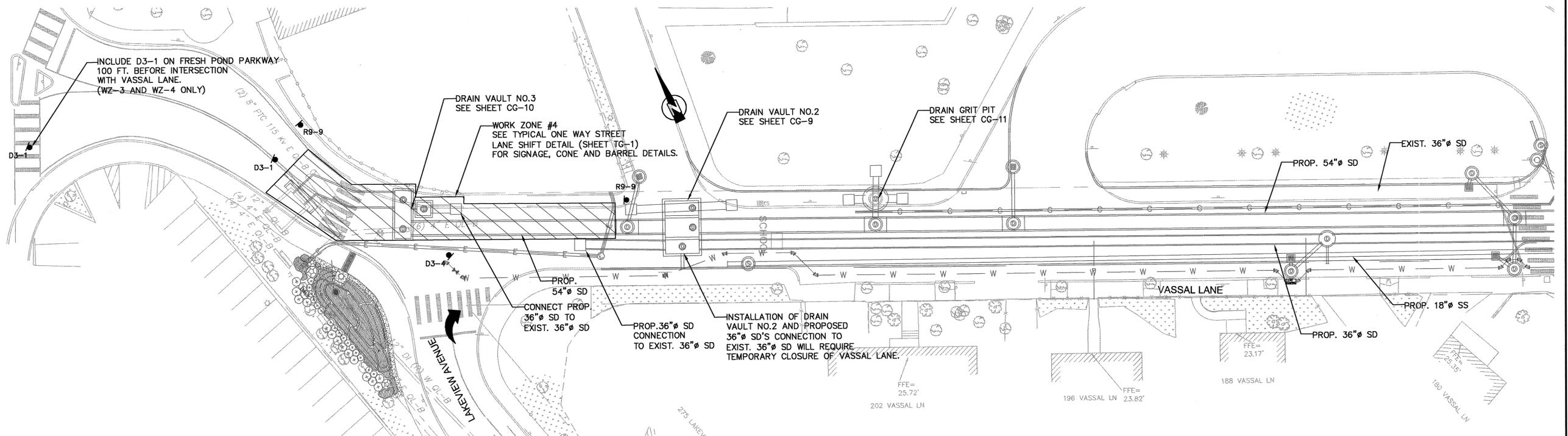
1. TRAFFIC ACCESS TO VASSAL LANE FROM FRESH POND PARKWAY DURING WORK IN WZ-4 WILL BE DETOURED FROM FRESH POND PARKWAY, AROUND THE FRESH POND ROTARY, SOUTH TO HURON AVENUE, LEFT ON HURON AVENUE AND LEFT ON LAKEVIEW AVENUE.

WORK ZONE 4 CONSTRUCTION PHASING NOTES:

2. MAKE CONNECTIONS TO PROPOSED 36" SD AND 54" SD AND INSTALL DRAIN VAULT NO.3.

3. MAKE FINAL CONNECTION TO EXISTING DRAIN VAULT WEST OF DRAIN VAULT NO.3.

4. REMOVE ALL UPSTREAM PLUGS AND ALLOW FLOW THROUGH (2) 36" SD AND (1) 54" SD ALONG VASSAL LANE.



**VASSAL LANE
WORK ZONE 4**

CONFORMED SET



Scale	1"=20'		
Date	SEPTEMBER 2012		
Job No.	1010691		
Designed by	AMF		
Drawn by	ZSH		
Checked by	CRO	No.	Description
Approved by	MMC		REVISIONS

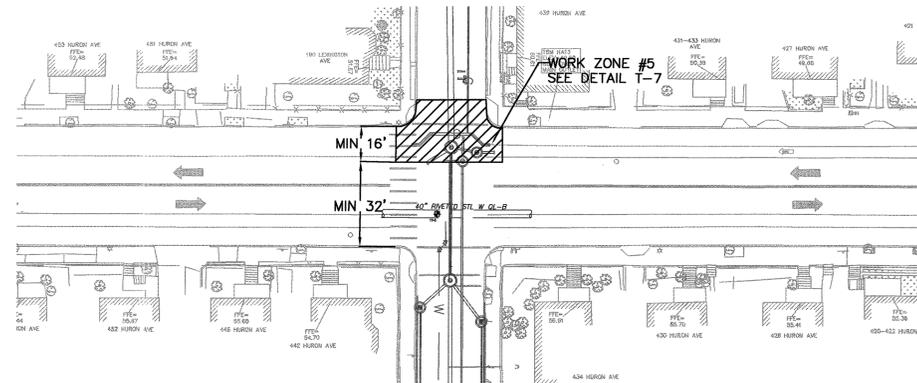


CITY OF CAMBRIDGE, MASSACHUSETTS
HURON A SEWER SEPARATION PROJECT
CONTRACT NO. 8A
TRAFFIC MANAGEMENT PLANS
VASSAL LANE WORK ZONES 3 & 4

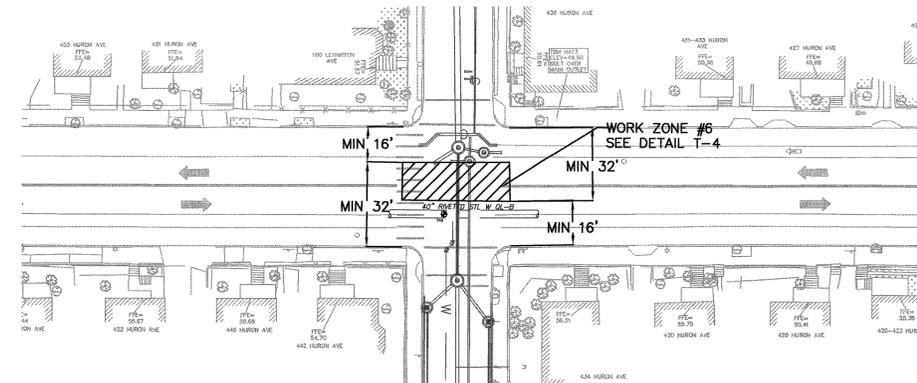
Sheet No.
TMP-2
File No.

HURON AVENUE GENERAL NOTES:

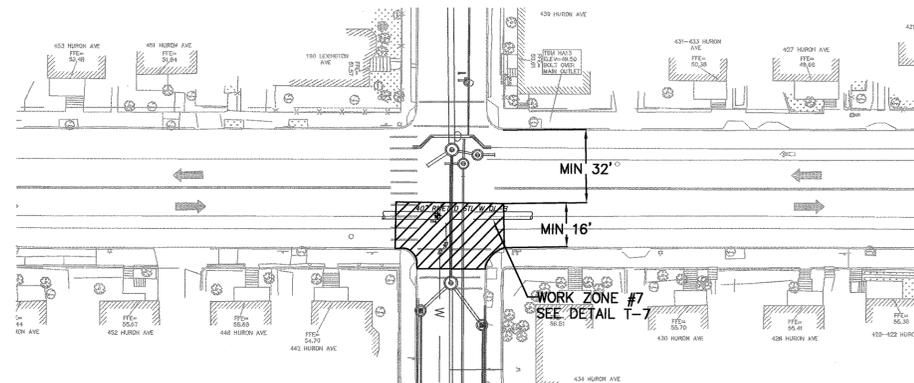
1. WHERE WORK ZONES REQUIRE TEMPORARY CLOSURE OF INTERSECTING STREETS WITH HURON AVENUE, CONTRACTOR SHALL INSTALL "ROAD CLOSED TO THRU TRAFFIC" SIGNS (R11-4) AT THE INTERSECTIONS AND AT THE PRECEDING SIDE STREET INTERSECTION PRIOR TO THE CLOSED HURON AVENUE INTERSECTION.



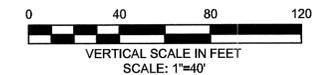
TYPICAL HURON CROSSING
WORK ZONE 5



TYPICAL HURON CROSSING
WORK ZONE 6



TYPICAL HURON CROSSING
WORK ZONE 7



CONFORMED SET



Scale	1"=40'			
Date	SEPTEMBER 2012			
Job No.	1010691			
Designed by	AMF			
Drawn by	ZSH			
Checked by	CRO	No.	Description	Date
Approved by	MMC		REVISIONS	



CITY OF CAMBRIDGE, MASSACHUSETTS
HURON A SEWER SEPARATION PROJECT
CONTRACT NO. 8A
TRAFFIC MANAGEMENT PLANS
HURON AVENUE TRAFFIC MANAGEMENT PLANS

Sheet No.
TMP-3
File No.