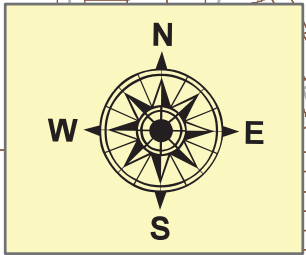
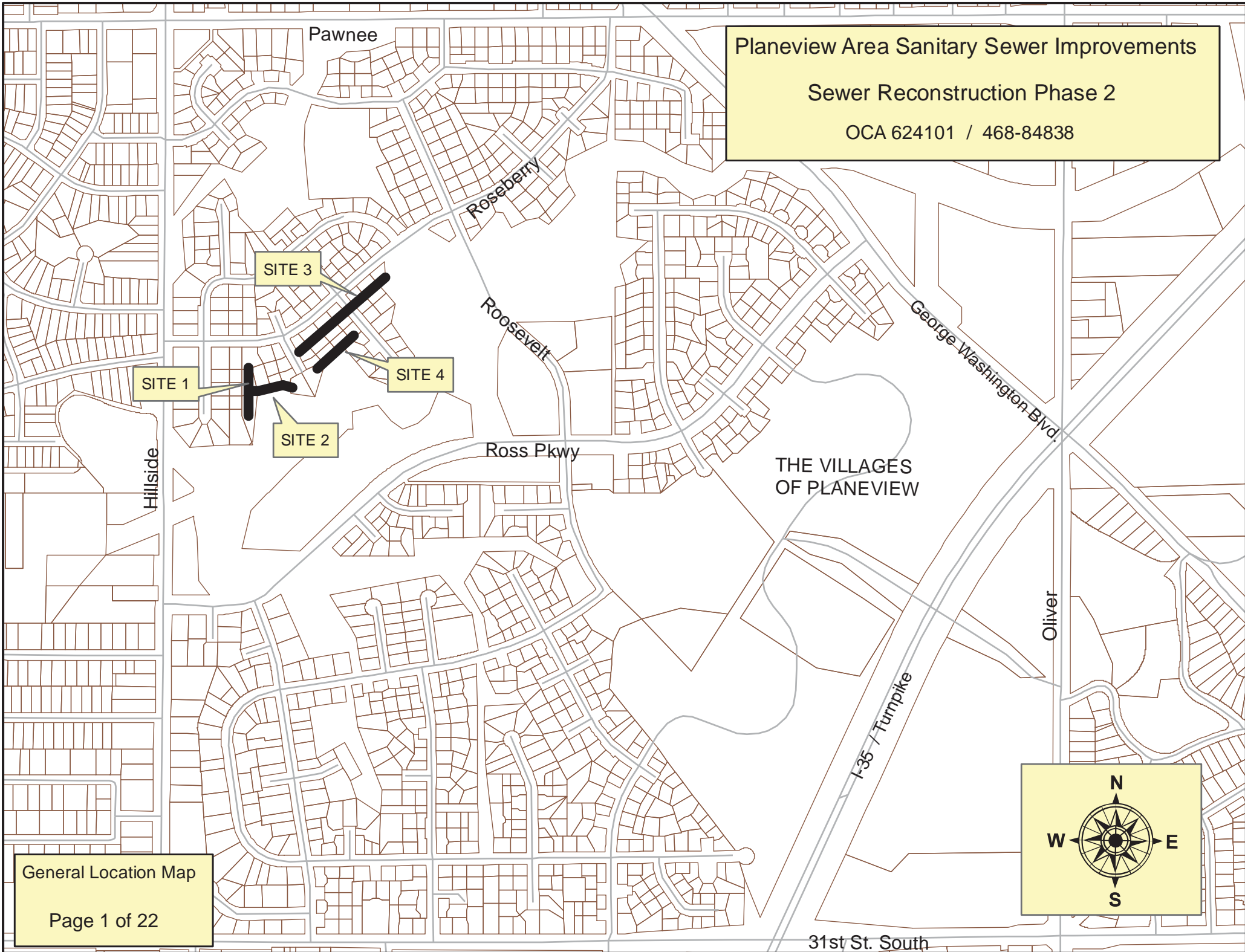


Planeview Area Sanitary Sewer Improvements
Sewer Reconstruction Phase 2
OCA 624101 / 468-84838



31st St. South

Bid Items by Site Reference

Planeview Area Sanitary Sewer Improvements / Sewer Reconstruction Phase 2

<u>Item</u>	<u>Site 1</u>	<u>Site 2</u>	<u>Site 3</u>	<u>Site 4</u>	<u>Totals</u>	
<u>LUMP SUM QUANTITIES:</u>						
MH, Standard SS (4')	2	2			4	ea
MH, Shallow SS (4')	1	1	1	1	4	ea
MH, Outside Drop Reconstructed (or Constructed)				1	1	ea
MH Adjusted (6" to 12")				1	1	ea
MH Frame & Cover, Removed & Replaced	1		1	1	3	ea
MH Bench & Invert, Removed & Replaced				1	1	ea
Pavement Removed & Replaced			23		23	lf
Concrete Approach Removed & Replaced			19		19	lf
Concrete Sidewalk Removed & Replaced			4		4	lf
AC Pavement Removed & Replaced (parking lot)			183		183	lf
Site Clearing					1	LS
Site Restoration					1	LS
<u>MEASURED QUANTITIES:</u>						
Pipe, SS 8"	267	265	680	288	1500	lf
Pipe Removed (6")	267	265	680	70	1282	lf
Pipe Removed (8")				218	218	lf
Service Reconnection, Sewer (4")	6	2	17	6	31	ea
Pipe, SS 4"		20			20	lf
Private Service Line Replaced		3			3	ea
BMP, Erosion Control Mat		35			35	sy
BMP, Silt Fence	40	205	40	40	325	lf

General Notes

Pipe Reaming or Pipe Bursting may be used as an alternate method of pipe replacement and upsizing. There will be no change to the contract amount if an alternate method is used. Other tunneling methods may be used to get under sheds. Any method used must still ensure that the pipe is free of sags and meets City Specifications.

Modifications at manhole walls to remove 6" pipe and install 8" pipe shall be subsidiary to the pipe replacement. Reducers for 8" to 6" pipe are not allowed.

If additional Outside Drops are required, the amount paid will be the same, whether it is a reconstruction of an existing drop or the construction of a required new drop.

Pipe removed and pipe installed is a measured quantity because in some cases the length of pipe cannot be verified. On Site 2, the pipe could possibly be relocated.

On Site 2, no access points have been found, so there are no tv logs. The location of the pipe is not known.

Sanitary Sewer Service Lines:

- a) For building 3377-3381-3385 E. Roseberry Court: The service lines in this area usually exit the building directly in line with the roof vents. Most have an opening on the service line (like an old observation hole) that is covered by a concrete block, and that would be located about three or four feet away from the building. At this building, those appear to be buried. If you find that opening, that is where the private cleanout should be installed. Under no circumstance should the contractor be replacing any pipe under the building. Line replacements on this building will require permits in the Office of Central Inspection (OCI), installed per current Municipal Code and inspected by OCI.
- b) For building 3373 E Roseberry Court: In this case there is an existing private cleanout and the location of the sewer main is not known. We will not require a permit to extend 4" pipe as necessary for the service to be reconnected. The bid item for 4" Pipe applies to this building only.
- c) All other service lines fall under the standard bid item for "Service Reconnection, Sewer (4)".

Water Mains and Water Service Lines. This sewer project is being bid with a water project to abandon City water mains and install water service lines within some of the same easements as the sewer replacement work is located. See the maps for the water replacement project for the location of existing water pipes and for the location of proposed water service lines.

All pavement shall be replaced in like-kind.

The bid item for Concrete Sidewalk Removed & Replaced refers to sidewalk within Vassar Court R/W only. All removal and replacement of sidewalk on private property shall be subsidiary to the project.

Seeding is acceptable on all four sites and shall be subsidiary to the bid item for Site Restoration.

MH 5744-382
Remove and Replace MH Frame & Cover
3321 E. Roseberry
Approx MH depth = 10.2 ft
(manhole is located in a sidewalk / concrete removal and replacement shall be subsidiary)

Remove 267 lf of 6" Pipe
Install 267 lf of 8" Pipe

(Footages were determined by televising south from MH 5744-382. There are no visible structures south of MH 5744-382.)

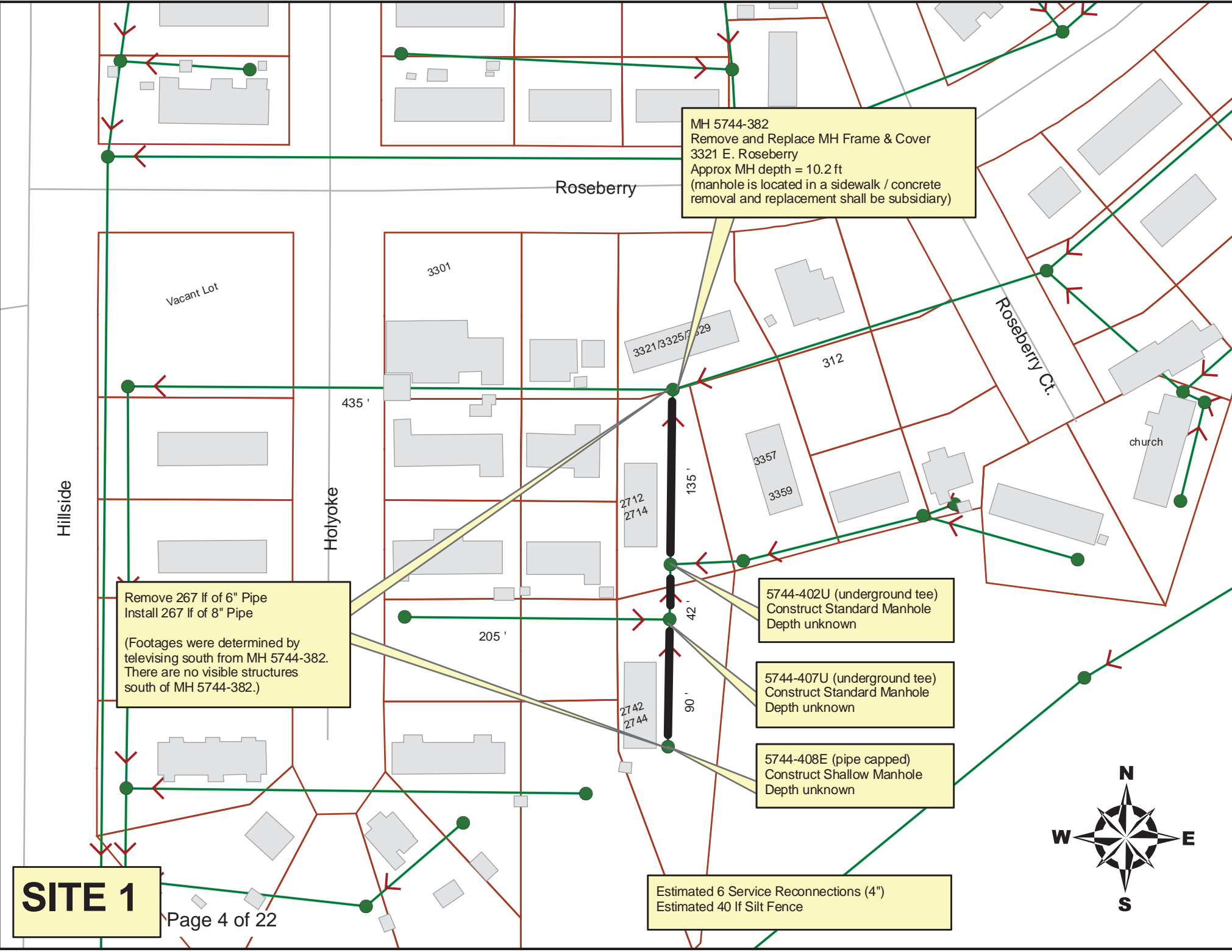
5744-402U (underground tee)
Construct Standard Manhole
Depth unknown

5744-407U (underground tee)
Construct Standard Manhole
Depth unknown

5744-408E (pipe capped)
Construct Shallow Manhole
Depth unknown

Estimated 6 Service Reconnections (4")
Estimated 40 lf Silt Fence

SITE 1



E ROSEBERRY ST

S HOLYOKE ST

E ROSEBERRY CT



Video Inspection Master Report

10/19/2012
9:38 AM

US Structure: 5744-408E (capped end-pipe) **Date Insp:** 6/25/2012 **Basin:** C01A
DS Structure: 5744-407U (union) **Dir Televised:** Downstream to Upstream

Obs. #	VTR Counter	Distance	Location	Description	Rating	Obsrvd (gpm)	Est. (gpm)	Ratings		
								Struct	Clean	Remain (gpm)
		0.0		5744-407 U / Underground Tee (6") TV AGAINST THE FLOW	1		No structure at the surface Dia: 6"			VCP
		52.6		West wye / 2742-44 S. Holyoke (4")						
		87.4		West wye / 2742-44 S. Holyoke (4")			Heavy roots in service			
		90.0		5744-408E / Capped End of Pipe Line has roots	1		No structure at the surface			

US Structure: 5744-407U **Date Insp:** 6/25/2012 **Basin:** C01A
DS Structure: 5744-402U **Dir Televised:** Downstream to Upstream

Obs. #	VTR Counter	Distance	Location	Description	Rating	Obsrvd (gpm)	Est. (gpm)	Ratings		
								Struct	Clean	Remain (gpm)
		0.0		5744-402 U / Underground Tee (6") TV AGAINST THE FLOW	1		No structure at the surface Dia: 6"			VCP
		42.2		5744-407U / Underground Tee (6") <u>NO TAPS</u>	1		No structure at the surface			

US Structure: 5744-402U **Date Insp:** 6/25/2012 **Basin:** C01A
DS Structure: 5744-382 **Dir Televised:** Downstream to Upstream

Obs. #	VTR Counter	Distance	Location	Description	Rating	Obsrvd (gpm)	Est. (gpm)	Ratings		
								Struct	Clean	Remain (gpm)
		0.0		Downstream Manhole 5744-382 TV AGAINST THE FLOW			(manhole is visible) Dia: 6"			VCP
		62.0		East wye / 3357-59 Roseberry Ct. (4")						
		69.5		West wye / 2712-14 S. Holyoke (4")						
		100.8		East wye / 3357-59 Roseberry Ct. (4")						
		106.2		West wye / 2712-14 S. Holyoke (4")			Full of roots			
		135.0		5744-402U / Underground Tee (6")			No structure at the surface			

Remove 265 lf of 6" Pipe (approx)
Install 265 lf of 8" Pipe (approx)
(from new MH 5744-405 to new MH 5744-402)

(Once the location for MH 5744-402 has been determined, Contractor can determine the best location for the new pipe on this site. Length adjustments may be made between manholes for best layout to miss trees. Any sidewalk located under the over-growth has not been used and does not need to be replaced.)

Roseberry

Roseberry Ct.

3321

3301

5744-404U (underground union)
Construct Standard Manhole
(depth unknown / pipe location unknown)

3373 E. Roseberry Ct has a private PVC cleanout. Install approx. 20 lf of 4" PVC pipe as necessary to reconnect this building to the new 8" pipe. Or, connect to existing PVC service line where applicable. Abandonment or removal of 6" pipe on this property shall be subsidiary to the Site.

5744-402
(see Site 1 for manhole construction)
Depth unknown

135'

3357

3359

3365

3369

3373

3377

3381

3385

church

Holyoke

60'

145'

18" RCP Storm
Water Sewer

60'

42'

5744-403U (underground union or bend)
Construct Standard Manhole
(depth unknown / pipe location unknown)



2742
2744

90'

5744-405
Construct Shallow Manhole
(depth unknown / pipe location unknown)
Abandonment or removal of 6" pipe to the east of MH 5744-405 shall be subsidiary to this Site.

Private Service Line Replaced (3):
3377-3381-3385 E. Roseberry Court
Contractor shall pull a permit in the Office of Central Inspection (OCI) for each service line replacement. Inspection will be performed by an OCI inspector. Each replacement shall have a 4" cleanout installed and 4" pipe installed as necessary to reconnect to the new 8" sewer main. SEE GENERAL NOTES. Contractor will need to locate each service.

SITE 2

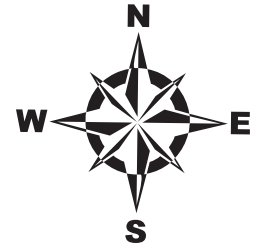
Estimated 2 Service Reconnections (4")
Estimated 205 lf Silt Fence
Est 35 sy Erosion Control Mat

E ROSEBERRY ST

S HOLYOKE ST

E ROSEBERRY CT





5744-385CO (cleanout)
Construct Shallow Manhole
Depth unknown / Not found
(removal of a cleanout structure shall be incidental)

MH 5744-384
Approx depth = 10.7 ft

Remove 240 lf of 6" Pipe
Install 240 lf of 8" Pipe

Remove & Replace 23 lf of Pavement
Remove & Replace 19 lf of Concrete Approach
Remove & Replace 4 lf of Concrete Sidewalk
(in Vassar Court R/W)

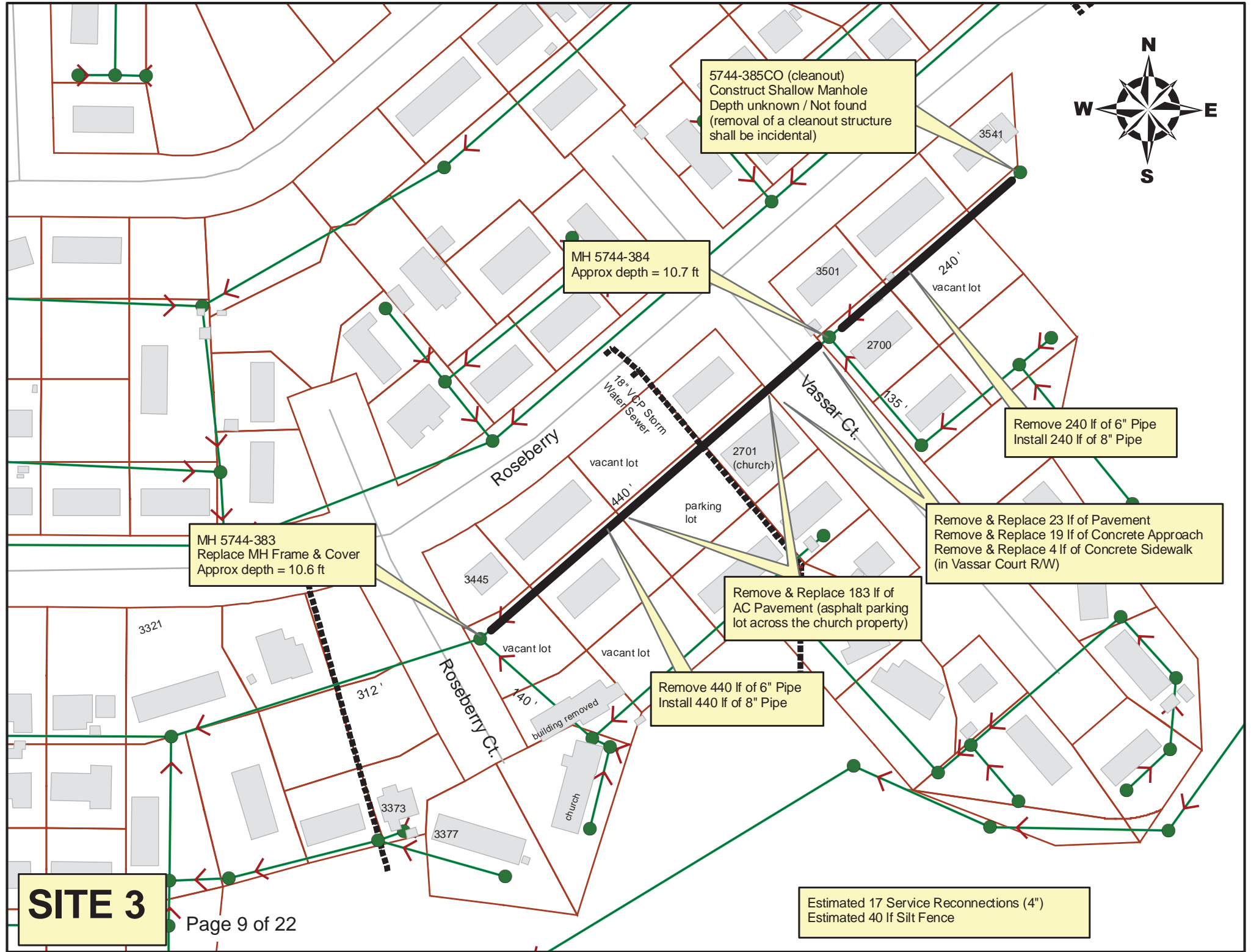
Remove & Replace 183 lf of
AC Pavement (asphalt parking
lot across the church property)

Remove 440 lf of 6" Pipe
Install 440 lf of 8" Pipe

MH 5744-383
Replace MH Frame & Cover
Approx depth = 10.6 ft

Estimated 17 Service Reconnections (4")
Estimated 40 lf Silt Fence

SITE 3







Video Inspection Master Report

10/19/2012
9:37 AM

C01A

US Structure: **5744-385CO**
DS Structure: **5744-384**

2700 S VASSAR ST

Date Insp: 8/2/2012
Dir Televised: Downstream To Upstream

Basin:

Pipe Information

Shape: Round
Dia/Ht: 6
Length: 240.0

Length Status:
Material: VCP
Slope: 1.000

Project No. : I-080
Index:
Surface:

Obs. #	VTR	Counter	Distance	Location	Description	Rating	Ratings		
							Obsrvd (gpm)	Est. (gpm)	Struct Clean Remain (gpm)
1			0.0		5744-384 DS Manhole	1		TV AGAINST THE FLOW	
2			17.6	2700 S VASSAR CT	Wye Service	1			
3			17.7	3501 E ROSEBERRY	Wye Service	1			
4			48.5	2700 S VASSAR CT	Break-In Conn	1			
5			48.6	3509 E ROSEBERRY	Wye Service	1			
6			80.9		Roots	1			
7			83.5		Roots	1			
8			95.1	ball of roots	Sealed Off Wye	5			
9			95.1	3517 E ROSEBERRY	ball of roots Wye Service	3			
10			100.1		Roots	1			
11			121.6		Sealed Off Wye	5			
12			122.3	3525 E ROSEBERRY CT	Wye Service	5			
				ball of roots, hangs into the main					
13			154.2	ball of roots	Sealed Off Wye	5			
14			154.2	3533 E ROSEBERRY	roots Wye Service	3			
15			199.0	ball of roots	Sealed Off Wye	5			
16			216.5		Roots	1			
17			230.8	roots (heavy in invert)	Roots	4			
18			231.8	3541 E ROSEBERRY	ball of roots Wye Service	5			
19			232.1	INCOMPLETE TELEVISIONING	<u>Camera Blocked</u>	0			

Camera cannot get through the roots. Can't see past this point. The line is supposed to be 240 ft long, but that cannot be verified.



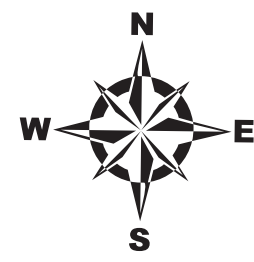
Video Inspection Master Report

10/19/2012
9:37 AM

US Structure: **5744-384** 2700 S VASSAR ST Date Insp: 8/3/2012 Basin: C01A
 DS Structure: **5744-383** 3405 E ROSEBERRY CT Dir Televised: Upstream To Downstream

Project No.: I-080 Dia: 6 Material: VCP Length: 440.0 Slope: 0.455

#	Counter	Distance	Location	Description	Rating	Ratings		
						Obsrvd (gpm)	Est. (gpm)	Remain (gpm)
1		0.0		5744-384 US Manhole	1			
2		7.5		Crack-Radial	1			
3		17.4		Crack-Radial	2			
4		44.8		Crack-Radial	2			
5		97.8		Crack-Radial	2			
6		105.3		Crack-Radial	2			
7		105.6		Wye Service	1			
8		105.6		Wye Service	1			
9		138.2		Wye Service	1			
10		138.2		Wye Service	1			
11		147.1		PVC Break-In Conn	1			
12		156.0		Crack-Horizontal	2			
13		170.9		Crack-Radial	2			
14		184.7		Sealed Off Wye	3			
15		184.8		Sealed Off Wye	5			
16		190.3		Roots	1			
17		211.9		Sealed Off Wye	2			
18		211.9		Wye Service	1			
19		215.4		Crack-Radial	1			
20		241.5		Sealed Off Wye	1			
21		242.3		Sealed Off Wye	1			
22		247.3		Broken Pipe	4			
23		265.0		Crack-Radial	3			
24		272.7		Crack-Radial	3			
25		288.3		Wye Service	5			
26		288.7		Wye Service	5			
27		296.9		Crack-Radial	2			
28		311.8		Crack-Radial	4			
29		318.3		Wye Service (in sag)	1			
30		318.3		Wye Service (in sag)	1			
31		325.5		Crack-Radial	3			
32		330.6		Crack-Radial	3			
33		335.5		Crack-Radial	3			
34		343.2		Crack-Radial	2			
35		346.9		Wye Service	4			
36		346.9		Wye Service	1			
37		350.1		Roots	1			
38		352.5		Roots	1			
39		394.0		Wye Service	5			
40		394.0		Wye Service	1			
41		417.5		Crack-Radial	2			
42		437.0		sludge buildup in the line				
		439.0		DS Manhole	1			



Reconstruct Outside Drop
(for line coming into MH 5744-384 from the east)

MH 5744-391
Replace MH Frame & Cover
Remove & Replace MH Bench & Invert
Approx depth = 9.7 ft

5744-399CO (cleanout)
Construct Shallow Manhole
Depth unknown / Not found
(removal of a cleanout structure shall be subsidiary)

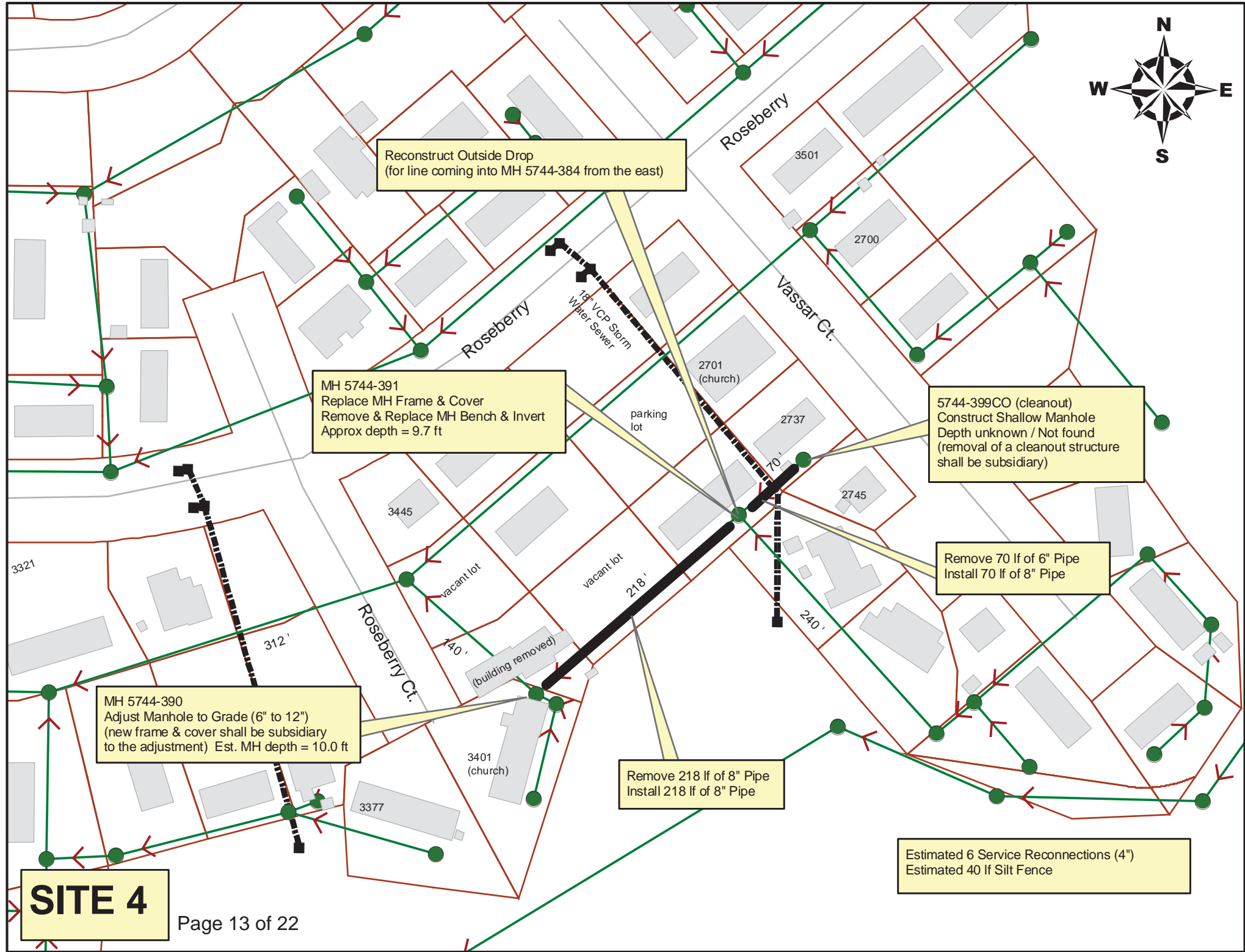
Remove 70 lf of 6" Pipe
Install 70 lf of 8" Pipe

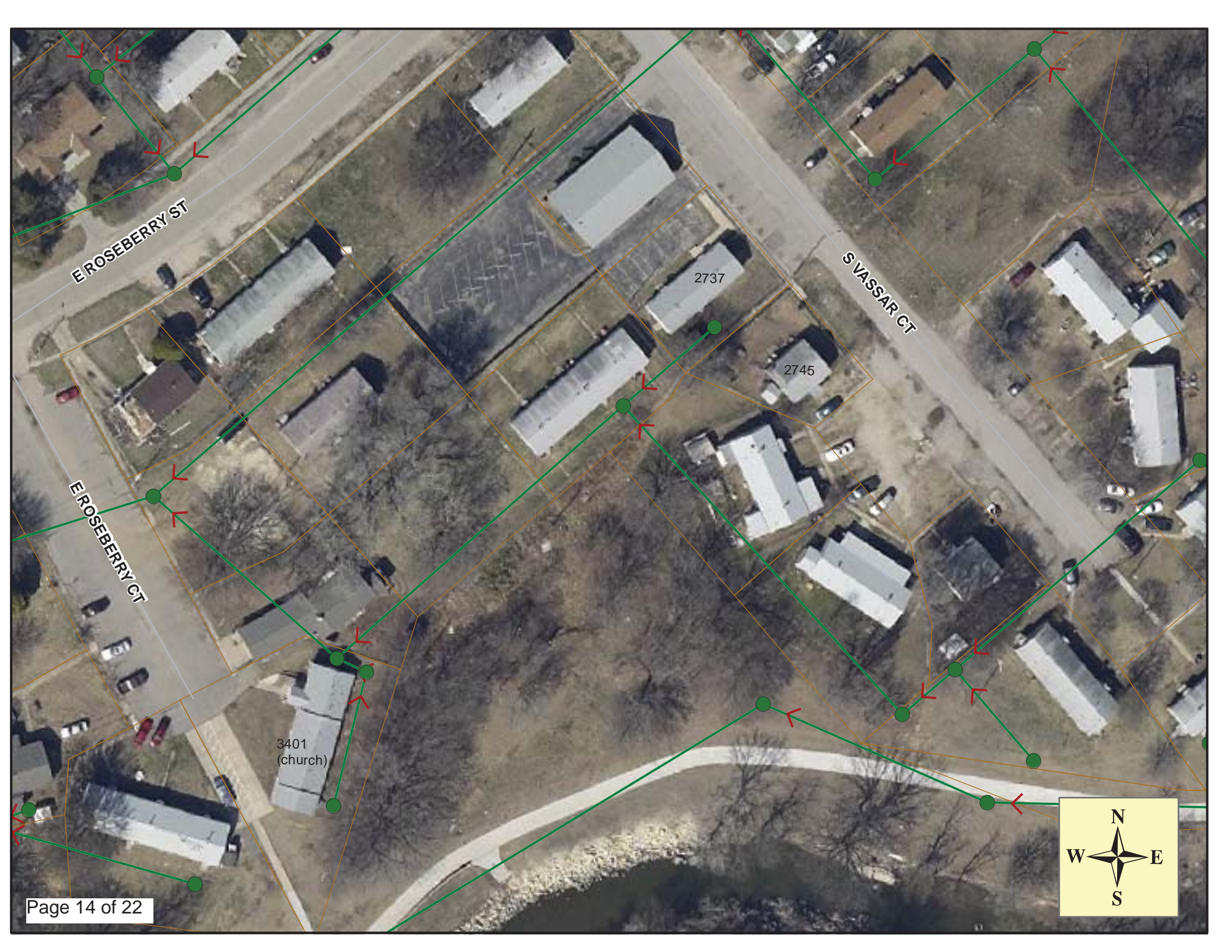
MH 5744-390
Adjust Manhole to Grade (6" to 12")
(new frame & cover shall be subsidiary to the adjustment) Est. MH depth = 10.0 ft

Remove 218 lf of 8" Pipe
Install 218 lf of 8" Pipe

Estimated 6 Service Reconnections (4")
Estimated 40 lf Silt Fence

SITE 4





E ROSEBERRY ST

SVASSAR CT

E ROSEBERRY CT

2737

2745

3401
(church)



Video Inspection Master Report

10/19/2012
9:40 AM

US Structure: 5744-399CO
DS Structure: 5744-391

2725 S VASSAR CT

Date Insp: 8/3/2012
Dir Televised: Downstream To Upstream

Basin: C01A

Pipe Information

Shape: Round Length Status: Project No. : I-080
Dia/Ht: 6 Material: VCP Index:
Length: 70.0 Slope: 0.580 Surface:

Obs. #	VTR	Counter	Distance	Location	Description	Rating	Ratings			
							Obsrvd (gpm)	Est. (gpm)	Struct Clean	Remain (gpm)
1			0.0	5744-391	DS Manhole	1				
Outside Drop Hole Pipe appears to dip downward, and then back up again, just past the outside drop hole. Broken pipe in the bottom of the dip										
2			6.6		Camera Blocked	5				
Pipe must be replaced. No way to verify length of this segment.										

Video Inspection Master Report

10/19/2012
9:40 AM

US Structure: 5744-391 2725 S VASSAR CT Date Insp: 8/3/2012 Basin: C01A
 DS Structure: 5744-390 2968 S CLIFTON ST Dir Televised: Upstream To Downstream

Pipe Information
 Project No. : I-080 Dia: 8 Material: VCP Length: 250.0 Slope: 0.520

Obs. #	VTR Counter	Distance	Location	Description	Rating	Ratings		
						Obsrvd (gpm)	Est. (gpm)	Struct Clean Remain (gpm)
1		0.0	5744-391	US Manhole	1			
2		13.4	2729 E VASSAR	Wye Service	1			
3		20.0		Crack-Radial	2			
4		22.8		Crack-Radial	1			
5		35.2		Crack-Radial	1			
6		42.6	2725 E VASSAR	full of roots / Wye Service	5			
7		58.3		Crack-Radial	2			
8		67.3		Crack-Radial	1			
9		70.2		Roots	1			
10		76.3		Roots	1			
11		79.5		Crack-Radial	2			
12		88.9		Crack-Radial	2			
13		90.5		Wye Service	2			
14		93.5		Crack-Radial	2			
15		96.5		Roots	1			
16		99.6		Roots	2			
17		105.8		Roots	1			
18		109.0		Roots	1			
19		112.2		Crack-Radial	2			
20		118.2		Roots	1			
21		120.3		Sealed Off Wye	2			
22		124.4		Crack-Radial	5			
23		127.9		Crack-Radial	3			
24		134.0		Crack-Horizontal	2			
25		137.1		Crack-Radial	2			
26		143.1		Crack-Radial	3			
27		148.0		heavy roots / Wye Service	5			
28		149.3		Roots	1			
29		152.6		Crack-Radial	1			
30		155.6		Roots	1			
31		158.9		Crack-Radial	2			
32		165.2		Roots	1			
33		168.0		Roots	1			
34		171.1		Roots	1			
35		180.5		Crack-Radial	1			
36		186.4		Crack-Radial	1			
37		189.6		Roots	1			
38		193.6		full of roots / Wye Service	5			
39		195.8		Roots	1			
40		196.5		Crack-Horizontal	2			
41		203.8		Crack-Radial	2			
42		212.9		Crack-Radial	3			
43		217.7	(inside church fence)	5744-390 DS Manhole	1			Lots of roots and cracks