

MEMORANDUM

DATE: September 21, 2016

TO: Brian Dissette
Larry Halberstadt

FROM: Corey A. Kandow, PE

RE: North Shore Drive – Tree Removal Update

On Friday, September 16th, 2016, representatives from both AbonmarCHE and the City walked the North Shore Drive project to reevaluate the current plan in regards to tree removals. During the process of this walk-through, we looked at every tree within the construction area and made a determination on if the tree could stay, needed to be removed, or was a candidate for a possible transplant.

I've attached a couple of plans sheets to this memo which show our results. The following information will help you understand our field notes:

- The green text boxes highlight the trees originally bid and called out for removal as part of this contract.
- Existing trees circled in red and highlighted in yellow are trees that Aaron designated as dying or unhealthy. During our walk-through we identified 4 of these trees that could remain if so desired. These didn't look all that bad to us, and it may be in our best interest to let these stay for the time being. These trees are located at #429 NSD, #555 NSD, #603 NSD, and #771 NSD.
- Existing trees circled in purple are items that have changed, or notes we've added since the plan was bid. This includes a few additional tree removals that were not called out originally due to their proximity to our new curb, or other comments as indicated on the PDF's.
- The red notes indicate our field observations in regards to which trees we felt can remain, trees that have been previously removed, transplant candidates, etc.

The current plan calls out for the removal of 30 total trees. After further review, we believe this number is closer to 23 trees (7 less than originally thought). There is a tree removal summary table by size on page #2 of the attachment.

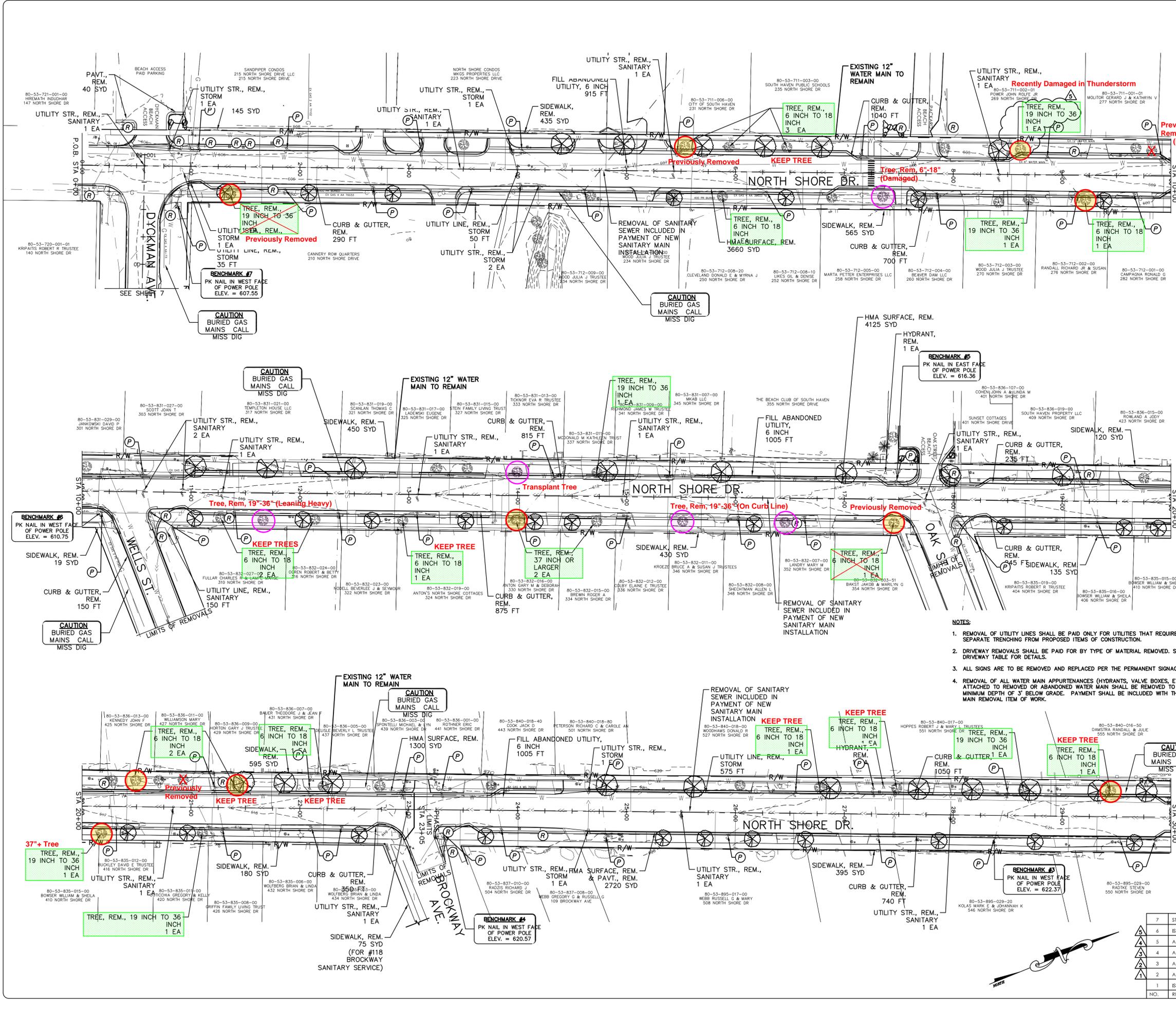
Item Description	Unit	Shft 6 Quantity
Tree, Rem. 6 inch to 18 inch	Ea	15
Tree, Rem. 19 inch to 36 inch	Ea	10
Tree, Rem. 37 inch or Larger	Ea	2
HMA Surface, Rem.	Syd	11902
Pavt., Rem.	Syd	4054
Sidewalk, Rem.	Syd	3545
Curb & Gutter, Rem.	Ft	6490
Utility Line, Rem., Sanitary	Ft	150
Utility Line, Rem., Storm	Ft	660
Utility Str., Rem., Sanitary	Ea	14
Utility Str., Rem., Storm	Ea	7
Sign, Rem.	Ea	24
Fill Abandoned Utility, 6 inch	Ft	2925

LEGEND

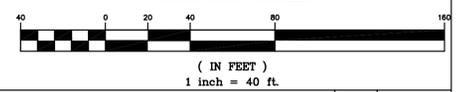
	SIDEWALK, REM.		COLD MILLING
	DRIVEWAY REMOVAL (SEE TABLE FOR PAYMENT PER DRIVE)		HMA SURFACE, REM.
	PAVT., REM.		CURB & GUTTER, REM.
	UTILITY LINE, REM.		FILL ABANDONED UTILITY
	SIGN, REM.		POWER POLE (RELOCATED BY OTHERS)

DRIVEWAY REMOVALS

STATION	HMA SURFACE, REM. (SYD)	PAVT., REM. (SYD)
0+60 L	0	42
2+67 L	32	0
3+24 L	0	30
3+25 R	0	34
3+83 L	0	31
4+62 L	0	34
5+15 R	0	26
5+28 R	0	37
6+68 R	0	30
7+50 R	0	16
7+69 L	0	41
8+09 L	0	55
8+19 R	41	0
8+98 R	0	25
9+33 L	0	27
9+74 R	0	20
10+26 L	0	23
10+46 L	0	17
10+74 L	0	22
11+92 L	0	23
12+46 R	0	11
12+98 L	0	20
13+31 R	0	14
13+81 L	0	27
13+85 R	0	15
14+21 L	0	33
14+32 R	0	18
14+53 L	0	22
14+84 R	0	19
15+21 L	14	28
15+53 L	0	18
15+81 R	0	15
16+31 R	0	14
16+84 R	0	18
18+09 L	0	16
18+63 L	0	13
19+45 L	0	27
19+69 R	10	0
20+40 L	0	20
20+66 R	0	35
21+10 L	0	22
21+62 R	0	12
21+67 L	0	28
21+75 R	0	12
22+59 L	0	29
23+11 L	0	18
23+61 L	0	25
24+24 L	0	23
24+52 L	0	26
24+52 R	0	22
26+24 L	0	18
24+67 R	0	19
27+05 L	0	20
27+05 R	0	30
27+90 L	0	18
28+88 L	0	15
29+10 R	0	41
TOTAL	97	1294



- NOTES:**
- REMOVAL OF UTILITY LINES SHALL BE PAID ONLY FOR UTILITIES THAT REQUIRE SEPARATE TRENCHING FROM PROPOSED ITEMS OF CONSTRUCTION.
 - DRIVEWAY REMOVALS SHALL BE PAID FOR BY TYPE OF MATERIAL REMOVED. SEE DRIVEWAY TABLE FOR DETAILS.
 - ALL SIGNS ARE TO BE REMOVED AND REPLACED PER THE PERMANENT SIGNAGE PLAN.
 - REMOVAL OF ALL WATER MAIN APPURTENANCES (HYDRANTS, VALVE BOXES, ETC.) ATTACHED TO REMOVED OR ABANDONED WATER MAIN SHALL BE REMOVED TO A MINIMUM DEPTH OF 3' BELOW GRADE. PAYMENT SHALL BE INCLUDED WITH THE WATER MAIN REMOVAL ITEM OF WORK.



NO.	REVISION DESCRIPTION:	BY:	DATE:
7	STORM SEWER REVISIONS	CAK	2016-09-01
6	ISSUED FOR CONSTRUCTION	CAK	2016-08-15
5	ADDENDUM #4	DAD	2016-07-08
4	ADDENDUM #3	DAD	0216-07-08
3	ADDENDUM #2	DAD	2016-07-07
2	ADDENDUM #1	DAD	2016-07-01
1	ISSUED FOR BID	TRD	2016-06-08

**NORTH SHORE DRIVE
 RECONSTRUCTION PROJECT
 CITY OF SOUTH HAVEN
 CONSTRUCTION SET**

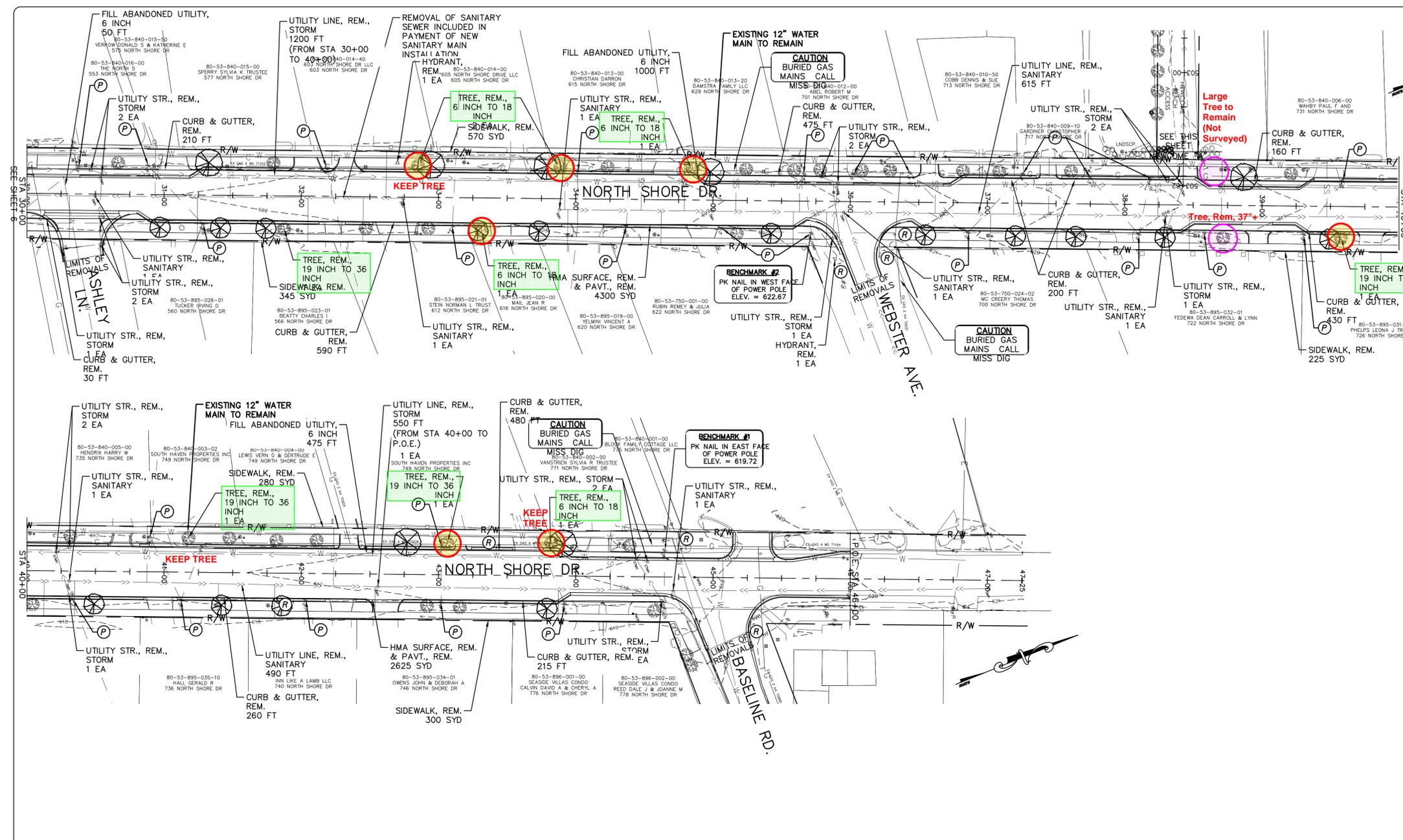
**NORTH SHORE DRIVE
 REMOVALS PLAN
 STA. 0+00 TO 30+00**

SHEET TITLE:
 DRAWN BY: GNF
 DESIGNED BY: CAK/SP/LT
 PM REVIEW: TRD
 QA/QC REVIEW:
 DATE: MAY 2016
 SEAL:

SIGNATURE:
 DATE:

HARD COPY IS INTENDED TO BE 24" X 36" WHEN PLOTTED. SCALE(S) INDICATED AND GRAPHIC QUALITY MAY NOT BE ACCURATE FOR ANY OTHER SIZE.

SCALE:
 HORIZ: 1" = 40'
 VERT: N/A
 ACI JOB #
14-0890
 SHEET NO.
6 of 51



Item Description	Unit	Sht 7 Quantity
Tree, Rem., 6 inch to 18 inch	Ea	5
Tree, Rem., 19 inch to 36 inch	Ea	4
HMA Surface, Rem.	Syd	7565
Pavt., Rem.	Syd	7465
Sidewalk, Rem.	Syd	1720
Curb & Gutter, Rem.	Syd	3050
Utility Line, Rem., Sanitary	Ft	1160
Utility Line, Rem., Storm	Ft	2130
Utility Str., Rem., Sanitary	Ea	9
Utility Str., Rem., Storm	Ea	18
Sign, Rem.	Ea	9
Newcome Beach Staircase Removal	LS	1
Fill Abandoned Utility, 6 inch	Ft	1625
Cold Milling HMA Surface	Syd	310

LEGEND

	SIDEWALK, REM.		COLD MILLING
	DRIVEWAY REMOVAL (SEE TABLE FOR PAYMENT PER DRIVE)		HMA SURFACE, REM.
	PAVT., REM.		
	CURB & GUTTER, REM.		
	UTILITY LINE, REM.		
	FILL ABANDONED UTILITY		
	SIGN, REM.		POWER POLE (RELOCATED BY OTHERS)

DRIVEWAY REMOVALS

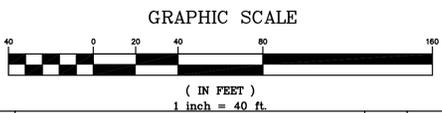
STATION	HMA SURFACE REM. (SYD)	PAVT REM. (SYD)
30+23 L	0	33
30+34 R	0	36
31+08 L	0	23
32+07 L	0	23
32+21 R	13	0
32+34 L	0	17
32+65 R	0	30
33+45 R	0	16
33+58 L	0	14
34+10 R	0	23
34+67 L	0	23
34+92 R	0	23
35+96 L	0	11
36+59 L	0	15
37+46 L	0	14
37+95 R	0	14
38+48 L	0	16
38+95 R	0	15
39+48 L	0	19
39+76 R	0	19
40+67 L	0	15
40+92 L	0	14
40+92 R	0	20
42+29 R	0	17
42+32 L	0	16
42+62 R	0	22
43+69 L	23	0
44+09 R	0	17
44+18 L	0	17
44+31 R	0	18
TOTAL	36	540

NORTH SHORE DRIVE - PLAN TREE REMOVAL SUMMARY

SHEET #	UNHEALTHY 6" - 18"	UNHEALTHY 19" - 36"	UNHEALTHY 37"+
6	6	4 (2 trees previously removed)	2 (1 trees previously removed)
7	5	2	0
SHEET #	HEALTHY 6" - 18"	HEALTHY 19" - 36"	HEALTHY 37"+
6	9	4	1
7	0	2	0

TOTALS: ~~20~~ **18** ~~11~~ **10** ~~2~~ **2**

AFTER WALK-THROUGH: ~~8~~ **8** ~~11~~ **11** (1 tree added by homeowner due to damage from thunderstorm) ~~4~~ **4**



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ABONMARCHÉ
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 Environmental
 Development Services

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PROJECT:
 NORTH SHORE DRIVE
 RECONSTRUCTION PROJECT
 CITY OF SOUTH HAVEN
 CONSTRUCTION SET

SHEET TITLE:
 REMOVAL PLANS
 NORTH SHORE STA 30+00 TO 46+00
 DYCKMAN STA 100+00 TO 103+75
 NEWCOME STA 500+00 TO 503+75

DRAWN BY:
 GNF

DESIGNED BY:
 CAK/SPJ/LT

PM REVIEW:
 TRD

QA/QC REVIEW:

DATE:
 MAY 2016

SEAL:

SIGNATURE:

DATE:

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SHEET NO.
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