



INNOVATIVE IDEAS
EXCEPTIONAL DESIGN
UNMATCHED CLIENT SERVICE

Greater South Haven Drainage Study-
Coventry, New South Haven and Salt Creek Valley Commons
Porter County, Indiana

APPENDIX IV F - Project Opinions of Probable Cost

APPENDIX IV F

NEW SOUTH HAVEN: NSH 1 - MONITOR, REPLACE 50 FEET AND SPOT REPAIR

OPINION OF PROBABLE CONSTRUCTION COST

Item	Description	Quantity	Unit	Unit Price	Amount	Notes	
REMOVAL AND ABANDONMENT ITEMS							
904	HEAVY VEGETATION REMOVAL	200	LFT	\$ 5	\$ 1,000	Outfall Clearing	
STORM SEWER ITEMS							
126	STORM SEWER, 30-IN (NATIVE BACKFILL)	50	LFT	\$ 128	\$ 6,400		
140	STORM MANHOLE, 4-FT DIA.	1	EA	\$ 5,000	\$ 5,000		
162	END SECTION, 36- TO 48-IN	1	EA	\$ 2,000	\$ 2,000		
906	ADJUST MANHOLE TO SURFACE	4	LS	\$ 2,500	\$ 10,000	Install Riser to Surface	
212	OUTLET PROTECTION	1	LS	\$ 5,000	\$ 5,000		
309	WATER QUALITY UNIT, <34.21 cfs TREATMENT RATE	1	EA	\$ 180,000	\$ 180,000		
DETENTION BASINS							
999	NOT USED		NU	\$ -	\$ -		
STORM SEWER REHABILITATION							
999	NOT USED		NU	\$ -	\$ -		
HARDSCAPE ITEMS							
999	NOT USED		NU	\$ -	\$ -		
RESTORATION ITEMS							
999	NOT USED		NU	\$ -	\$ -		
GENERAL ITEMS							
1000	MAINTENANCE OF TRAFFIC				\$ -		
1010	CONSTRUCTION ENGINEERING				\$ -		
1020	EROSION CONTROL				\$ -		
1100	MOBILIZATION/DEMOBILIZATION (5%) ROUNDED TO NEAREST \$1,000				\$ 4,000		
TOTALS, CONTINGENCIES, NON-CONSTRUCTION COSTS							
TOTAL (ROUNDED TO NEAREST \$10,000)					\$	210,000	
CONSTRUCTION CONTINGENCY (ROUNDED TO NEAREST \$10,000) @ 30%					\$	60,000	
TOTAL WITH CONSTRUCTION CONTINGENCY					\$	270,000	
ADMIN., ENGR., INSPECTION, CONSTRUCTION ADMINISTRATION (ROUNDED TO NEAREST \$10,000) @ 25%					\$	70,000	
PROJECT TOTAL (ROUNDED TO NEAREST \$10,000)					\$	340,000	
ASSUMPTIONS:							
1) COSTS ARE ESTIMATED IN YEAR 2022 DOLLARS AS OF JANUARY 2022.							
2) COSTS ARE HIGHLY VARIABLE DUE TO CURRENT SUPPLY AND LABOR ISSUES. OWNER TO CONFIRM PRIOR TO SECURING PROJECT FINANCING.							
3) COSTS DO NOT INCLUDE DEEP FOUNDATIONS, SPECIAL SOIL CONDITIONS, OR COSTS TO RELOCATE UTILITIES.							
4) COSTS DO NOT INCLUDE MITIGATING ENVIRONMENTAL CONDITIONS.							
5) COSTS ASSUME 1 LANE REMOVED AND REPLACED, OTHER LANE WILL BE MILLED AND BOTH LANES WILL BE SURFACED							
6) COSTS DO NOT INCLUDE EASEMENTS OR LAND ACQUISITIONS							

APPENDIX IV F

NEW SOUTH HAVEN: NSH 2 - NEWCASTLE ROAD BYPASS SEWER

OPINION OF PROBABLE CONSTRUCTION COST

Item	Description	Quantity	Unit	Unit Price	Amount	Notes
REMOVAL AND ABANDONMENT ITEMS						
910	MANHOLE, REMOVE	1	EA	\$ 500	\$ 500	
STORM SEWER ITEMS						
102	STORM SEWER, 18-IN (STRUCTURE BACKFILL)	755	LFT	\$ 105	\$ 79,275	
122	STORM SEWER, 18-IN (NATIVE BACKFILL)	780	LFT	\$ 84	\$ 65,520	
140	STORM MANHOLE, 4-FT DIA.	5	EA	\$ 5,000	\$ 25,000	
DETENTION BASINS						
999	NOT USED	0	NU	\$ -	\$ -	
STORM SEWER REHABILITATION						
999	NOT USED	0	NU	\$ -	\$ -	
HARDSCAPE ITEMS						
809	GEOGRID	50	SYD	\$ 3	\$ 150	
810	PAVEMENT REMOVAL & REPLACEMENT	50	SYD	\$ 30	\$ 1,500	
RESTORATION ITEMS						
999	NOT USED	0	NU	\$ -	\$ -	
GENERAL ITEMS						
1000	MAINTENANCE OF TRAFFIC				\$ 2,000	
1010	CONSTRUCTION ENGINEERING				\$ 3,000	
1020	EROSION CONTROL				\$ 5,000	
1100	MOBILIZATION/DEMOBILIZATION (5%) ROUNDED TO NEAREST \$1,000				\$ 9,000	
TOTALS, CONTINGENCIES, NON-CONSTRUCTION COSTS						
TOTAL (ROUNDED TO NEAREST \$10,000)					\$ 190,000	
CONSTRUCTION CONTINGENCY (ROUNDED TO NEAREST \$10,000) @30%					\$ 60,000	
TOTAL WITH CONSTRUCTION CONTINGENCY					\$ 250,000	
ADMIN., ENGR., INSPECTION, CONSTRUCTION ADMINISTRATION (ROUNDED TO NEAREST \$10,000) @ 25%					\$ 60,000	
PROJECT TOTAL (ROUNDED TO NEAREST \$10,000)					\$ 310,000	
ASSUMPTIONS:						
1) COSTS ARE ESTIMATED IN YEAR 2022 DOLLARS AS OF JANUARY 2022.						
2) COSTS ARE HIGHLY VARIABLE DUE TO CURRENT SUPPLY AND LABOR ISSUES. OWNER TO CONFIRM PRIOR TO SECURING PROJECT FINANCING.						
3) COSTS DO NOT INCLUDE DEEP FOUNDATIONS, SPECIAL SOIL CONDITIONS, OR COSTS TO RELOCATE UTILITIES.						
4) COSTS DO NOT INCLUDE MITIGATING ENVIRONMENTAL CONDITIONS.						
5) COSTS ASSUME 1 LANE REMOVED AND REPLACED, OTHER LANE WILL BE MILLED AND BOTH LANES WILL BE SURFACED						
6) COSTS DO NOT INCLUDE EASEMENTS OR LAND ACQUISITIONS						

APPENDIX IV F

NEW SOUTH HAVEN: NSH 3 - NEWCASTLE ROAD LINING PROJECT

OPINION OF PROBABLE CONSTRUCTION COST

Item	Description	Quantity	Unit	Unit Price	Amount	Notes
REMOVAL AND ABANDONMENT ITEMS						
999	NOT USED	0	NU	\$ -	\$ -	
STORM SEWER ITEMS (AS NEEDED)						
140	STORM MANHOLE, 4-FT DIA.	2	EA	\$ 5,000	\$ 10,000	
155	INLET & CASTING	7	EA	\$ 2,500	\$ 17,500	
DETENTION BASINS						
999	NOT USED	0	NU	\$ -	\$ -	
STORM SEWER REHABILITATION						
180	PIPE, HEAVY CLEANING	1	LS	\$ 15,000	\$ 15,000	
170	PIPE LINING, 12-INCH	1,005	LFT	\$ 70	\$ 70,350	
171	PIPE LINING, 15-INCH	490	LFT	\$ 80	\$ 39,200	
172	PIPE LINING, 18-INCH	437	LFT	\$ 100	\$ 43,700	
174	PIPE LINING, 24-INCH	575	LFT	\$ 150	\$ 86,250	
175	PIPE LINING, 30-INCH	1,099	LFT	\$ 250	\$ 274,750	
176	PIPE LINING, 36-INCH	575	LFT	\$ 315	\$ 181,125	
HARDSCAPE ITEMS						
999	NOT USED	2,985	NU	\$ -	\$ -	
RESTORATION ITEMS						
999	NOT USED	3,323	NU	\$ -	\$ -	
GENERAL ITEMS						
1000	MAINTENANCE OF TRAFFIC				\$ -	
1010	CONSTRUCTION ENGINEERING				\$ -	
1020	EROSION CONTROL				\$ -	
1100	MOBILIZATION/DEMOBILIZATION (5%) ROUNDED TO NEAREST \$1,000				\$ 37,000	
TOTALS, CONTINGENCIES, NON-CONSTRUCTION COSTS						
TOTAL (ROUNDED TO NEAREST \$10,000)					\$ 770,000	
CONSTRUCTION CONTINGENCY (ROUNDED TO NEAREST \$10,000) @ 30%					\$ 230,000	
TOTAL WITH CONSTRUCTION CONTINGENCY					\$ 1,000,000	
ADMIN., ENGR., INSPECTION, CONSTRUCTION ADMINISTRATION (ROUNDED TO NEAREST \$10,000) @ 25%					\$ 250,000	
PROJECT TOTAL (ROUNDED TO NEAREST \$10,000)					\$ 1,250,000	
ASSUMPTIONS:						
1) COSTS ARE ESTIMATED IN YEAR 2022 DOLLARS AS OF JANUARY 2022.						
2) COSTS ARE HIGHLY VARIABLE DUE TO CURRENT SUPPLY AND LABOR ISSUES. OWNER TO CONFIRM PRIOR TO SECURING PROJECT FINANCING.						
3) COSTS DO NOT INCLUDE DEEP FOUNDATIONS, SPECIAL SOIL CONDITIONS, OR COSTS TO RELOCATE UTILITIES.						
4) COSTS DO NOT INCLUDE MITIGATING ENVIRONMENTAL CONDITIONS.						
5) COSTS ASSUME 1 LANE REMOVED AND REPLACED, OTHER LANE WILL BE MILLED AND BOTH LANES WILL BE SURFACED						
6) COSTS DO NOT INCLUDE EASEMENTS OR LAND ACQUISITIONS						

APPENDIX IV F

NEW SOUTH HAVEN: NSH 4 - 400 WEST LINING PROJECT

OPINION OF PROBABLE CONSTRUCTION COST

Item	Description	Quantity	Unit	Unit Price	Amount	Notes
REMOVAL AND ABANDONMENT ITEMS						
999	NOT USED	0	NU	\$ -	\$ -	
STORM SEWER ITEMS						
101	STORM SEWER, 15-IN (STRUCTURE BACKFILL)	300	LFT	\$ 90	\$ 27,000	
140	STORM MANHOLE, 4-FT DIA.	2	EA	\$ 5,000	\$ 10,000	
155	INLET & CASTING	2	EA	\$ 2,500	\$ 5,000	
160	END SECTION, LESS THAN 24-IN	1	EA	\$ 500	\$ 500	
303	WATER QUALITY UNIT, <1.75 cfs TREATMENT RATE	1	EA	\$ 31,000	\$ 31,000	
307	WATER QUALITY UNIT, <9.31 cfs TREATMENT RATE	1	EA	\$ 80,000	\$ 80,000	
DETENTION BASINS						
999	NOT USED	0	NU	\$ -	\$ -	
STORM SEWER REHABILITATION						
180	PIPE, HEAVY CLEANING	1	LS	\$ 15,000	\$ 15,000	
172	PIPE LINING, 18-INCH	847	LFT	\$ 100	\$ 84,700	
175	PIPE LINING, 30-INCH	795	LFT	\$ 250	\$ 198,750	
HARDSCAPE ITEMS						
800	CURB AND GUTTER, REMOVE & REPLACE	400	LFT	\$ 30	\$ 12,000	
809	GEOGRID	650	SYD	\$ 3	\$ 1,950	
810	PAVEMENT REMOVAL & REPLACEMENT	650	SYD	\$ 30	\$ 19,500	
811	PAVEMENT SURFACE, 1 LANE	400	LFT	\$ 10	\$ 4,000	
817	SURFACE MILLING, 1 LANE	400	LFT	\$ 3	\$ 1,067	
820	DRIVEWAY REPLACEMENT	80	SYD	\$ 150	\$ 12,000	
RESTORATION ITEMS						
950	RESTORATION (LAWN AREAS)	1,863	LFT	\$ 5	\$ 9,315	
GENERAL ITEMS						
1000	MAINTENANCE OF TRAFFIC				\$ 3,000	
1010	CONSTRUCTION ENGINEERING				\$ 3,000	
1020	EROSION CONTROL				\$ 4,000	
1100	MOBILIZATION/DEMOBILIZATION (5%) ROUNDED TO NEAREST \$1,000				\$ 26,000	
TOTALS, CONTINGENCIES, NON-CONSTRUCTION COSTS						
TOTAL (ROUNDED TO NEAREST \$10,000)					\$ 550,000	
CONSTRUCTION CONTINGENCY (ROUNDED TO NEAREST \$10,000) @ 30%					\$ 170,000	
TOTAL WITH CONSTRUCTION CONTINGENCY					\$ 720,000	
ADMIN., ENGR., INSPECTION, CONSTRUCTION ADMINISTRATION (ROUNDED TO NEAREST \$10,000) @ 25%					\$ 180,000	
PROJECT TOTAL (ROUNDED TO NEAREST \$10,000)					\$ 900,000	
ASSUMPTIONS:						
1) COSTS ARE ESTIMATED IN YEAR 2022 DOLLARS AS OF JANUARY 2022.						
2) COSTS ARE HIGHLY VARIABLE DUE TO CURRENT SUPPLY AND LABOR ISSUES. OWNER TO CONFIRM PRIOR TO SECURING PROJECT FINANCING.						
3) COSTS DO NOT INCLUDE DEEP FOUNDATIONS, SPECIAL SOIL CONDITIONS, OR COSTS TO RELOCATE UTILITIES.						
4) COSTS DO NOT INCLUDE MITIGATING ENVIRONMENTAL CONDITIONS.						
5) COSTS ASSUME 1 LANE REMOVED AND REPLACED, OTHER LANE WILL BE MILLED AND BOTH LANES WILL BE SURFACED						
6) COSTS DO NOT INCLUDE EASEMENTS OR LAND ACQUISITIONS						

APPENDIX IV F

NEW SOUTH HAVEN : NSH 5 - OLNEY AREA SEWER REPLACEMENT

OPINION OF PROBABLE CONSTRUCTION COST

Item	Description	Quantity	Unit	Unit Price	Amount	Notes	
REMOVAL AND ABANDONMENT ITEMS							
904	HEAVY VEGETATION REMOVAL	1,000	LFT	\$ 5	\$ 5,000		
910	MANHOLE, REMOVE	4	EA	\$ 500	\$ 2,000		
911	CATCH BASIN / INLET, REMOVE	2	EA	\$ 300	\$ 600		
STORM SEWER ITEMS							
100	STORM SEWER, 12-IN (STRUCTURE BACKFILL)	95	LFT	\$ 80	\$ 7,600		
122	STORM SEWER, 18-IN (NATIVE BACKFILL)	490	LFT	\$ 84	\$ 41,160		
140	STORM MANHOLE, 4-FT DIA.	4	EA	\$ 5,000	\$ 20,000		
155	INLET & CASTING	2	EA	\$ 2,500	\$ 5,000		
DETENTION BASINS							
999	NOT USED	0	NU	\$ -	\$ -		
STORM SEWER REHABILITATION							
999	NOT USED	0	NU	\$ -	\$ -		
HARDSCAPE ITEMS							
800	CURB AND GUTTER, REMOVE & REPLACE	30	LFT	\$ 30	\$ 900		
809	GEOGRID	125	SYD	\$ 3	\$ 375		
810	PAVEMENT REMOVAL & REPLACEMENT	125	SYD	\$ 30	\$ 3,750		
821	HANDICAP RAMPS	2	EA	\$ 2,500	\$ 5,000		
RESTORATION ITEMS							
950	RESTORATION (LAWN AREAS)	600	LFT	\$ 5	\$ 3,000		
GENERAL ITEMS							
1000	MAINTENANCE OF TRAFFIC				\$ 5,000		
1010	CONSTRUCTION ENGINEERING				\$ 4,000		
1020	EROSION CONTROL				\$ 4,000		
1100	MOBILIZATION/DEMOLIBIZATION (5%) ROUNDED TO NEAREST \$1,000				\$ 5,000		
TOTALS, CONTINGENCIES, NON-CONSTRUCTION COSTS							
TOTAL (ROUNDED TO NEAREST \$10,000)					\$	110,000	
CONSTRUCTION CONTINGENCY (ROUNDED TO NEAREST \$10,000) @ 30%					\$	30,000	
TOTAL WITH CONSTRUCTION CONTINGENCY					\$	140,000	
ADMIN., ENGR., INSPECTION, CONSTRUCTION ADMINISTRATION (ROUNDED TO NEAREST \$10,000) @ 25%					\$	40,000	
PROJECT TOTAL (ROUNDED TO NEAREST \$10,000)					\$	180,000	
ASSUMPTIONS:							
1) COSTS ARE ESTIMATED IN YEAR 2022 DOLLARS AS OF JANUARY 2022.							
2) COSTS ARE HIGHLY VARIABLE DUE TO CURRENT SUPPLY AND LABOR ISSUES. OWNER TO CONFIRM PRIOR TO SECURING PROJECT FINANCING.							
3) COSTS DO NOT INCLUDE DEEP FOUNDATIONS, SPECIAL SOIL CONDITIONS, OR COSTS TO RELOCATE UTILITIES.							
4) COSTS DO NOT INCLUDE MITIGATING ENVIRONMENTAL CONDITIONS.							
5) COSTS ASSUME 1 LANE REMOVED AND REPLACED, OTHER LANE WILL BE MILLED AND BOTH LANES WILL BE SURFACED							
6) COSTS DO NOT INCLUDE EASEMENTS OR LAND ACQUISITIONS							

APPENDIX IV F

NEW SOUTH HAVEN : NSH 6 - NANTUCKET LINING AND INLET CONNECTION REPLACEMENT

OPINION OF PROBABLE CONSTRUCTION COST

Item	Description	Quantity	Unit	Unit Price	Amount	Notes	
REMOVAL AND ABANDONMENT ITEMS							
904	HEAVY VEGETATION REMOVAL	1	LS	\$ 7,500	\$ 7,500	(ALLOWANCE)	
910	MANHOLE, REMOVE	2	EA	\$ 500	\$ 1,000		
911	CATCH BASIN / INLET, REMOVE	8	EA	\$ 300	\$ 2,400		
STORM SEWER ITEMS							
140	STORM MANHOLE, 4-FT DIA.	2	EA	\$ 5,000	\$ 10,000		
155	INLET & CASTING	8	EA	\$ 2,500	\$ 20,000		
101	STORM SEWER, 15-IN (STRUCTURE BACKFILL)	200	LFT	\$ 90	\$ 18,000		
162	END SECTION, 36- TO 48-IN	1	EA	\$ 2,000	\$ 2,000		
127	STORM SEWER, 36-IN (NATIVE BACKFILL)	290	LFT	\$ 152	\$ 44,080		
212	OUTLET PROTECTION	1	LS	\$ 5,000	\$ 5,000		
310	WATER QUALITY UNIT, <62.21 cfs TREATMENT RATE	1	EA	\$ 240,000	\$ 240,000		
DETENTION BASINS							
999	NOT USED	0	NU	\$ -	\$ -		
STORM SEWER REHABILITATION							
180	PIPE, HEAVY CLEANING	1	LS	\$ 15,000	\$ 15,000		
171	PIPE LINING, 15-INCH	880	LFT	\$ 80	\$ 70,400		
172	PIPE LINING, 18-INCH	1,160	LFT	\$ 100	\$ 116,000		
174	PIPE LINING, 24-INCH	1,140	LFT	\$ 150	\$ 171,000		
175	PIPE LINING, 30-INCH	470	LFT	\$ 250	\$ 117,500		
176	PIPE LINING, 36-INCH	505	LFT	\$ 315	\$ 159,075		
177	PIPE LINING, 42-INCH	705	LFT	\$ 500	\$ 352,500		
HARDSCAPE ITEMS							
800	CURB AND GUTTER, REMOVE & REPLACE	150	LFT	\$ 30	\$ 4,500		
809	GEOGRID	250	SYD	\$ 3	\$ 750		
912	CONCRETE PAVEMENT REMOVAL	250	SYD	\$ 150	\$ 37,500		
821	HANDICAP RAMPS	2	EA	\$ 2,500	\$ 5,000		
RESTORATION ITEMS							
950	RESTORATION (LAWN AREAS)	1,000	LFT	\$ 5	\$ 5,000		
GENERAL ITEMS							
1000	MAINTENANCE OF TRAFFIC				\$ 5,000		
1010	CONSTRUCTION ENGINEERING				\$ 5,000		
1020	EROSION CONTROL				\$ 5,000		
1100	MOBILIZATION/DEMOBILIZATION (5%) ROUNDED TO NEAREST \$1,000				\$ 71,000		
TOTALS, CONTINGENCIES, NON-CONSTRUCTION COSTS							
TOTAL (ROUNDED TO NEAREST \$10,000)					\$	1,490,000	
CONSTRUCTION CONTINGENCY (ROUNDED TO NEAREST \$10,000) @ 30%					\$	450,000	
TOTAL WITH CONSTRUCTION CONTINGENCY					\$	1,940,000	
ADMIN., ENGR., INSPECTION, CONSTRUCTION ADMINISTRATION (ROUNDED TO NEAREST \$10,000) @ 25%					\$	490,000	
PROJECT TOTAL (ROUNDED TO NEAREST \$10,000)					\$	2,430,000	
ASSUMPTIONS:							
1) COSTS ARE ESTIMATED IN YEAR 2022 DOLLARS AS OF JANUARY 2022.							
2) COSTS ARE HIGHLY VARIABLE DUE TO CURRENT SUPPLY AND LABOR ISSUES. OWNER TO CONFIRM PRIOR TO SECURING PROJECT FINANCING.							
3) COSTS DO NOT INCLUDE DEEP FOUNDATIONS, SPECIAL SOIL CONDITIONS, OR COSTS TO RELOCATE UTILITIES.							
4) COSTS DO NOT INCLUDE MITIGATING ENVIRONMENTAL CONDITIONS.							
5) COSTS ASSUME 1 LANE REMOVED AND REPLACED, OTHER LANE WILL BE MILLED AND BOTH LANES WILL BE SURFACED							
6) COSTS DO NOT INCLUDE EASEMENTS OR LAND ACQUISITIONS							

APPENDIX IV F

NEW SOUTH HAVEN : NSH 7 - 450 WEST SEWER REPLACEMENT

OPINION OF PROBABLE CONSTRUCTION COST

Item	Description	Quantity	Unit	Unit Price	Amount	Notes	
REMOVAL AND ABANDONMENT ITEMS							
903	CLEARING AND GRUBBING	1,400	LFT	\$ 2	\$ 2,800		
910	MANHOLE, REMOVE	4	EA	\$ 500	\$ 2,000		
911	CATCH BASIN / INLET, REMOVE	1	EA	\$ 300	\$ 300		
STORM SEWER ITEMS							
100	STORM SEWER, 12-IN (STRUCTURE BACKFILL)	45	LFT	\$ 80	\$ 3,600		
102	STORM SEWER, 18-IN (STRUCTURE BACKFILL)	1,240	LFT	\$ 105	\$ 130,200		
104	STORM SEWER, 24-IN (STRUCTURE BACKFILL)	450	LFT	\$ 125	\$ 56,250		
140	STORM MANHOLE, 4-FT DIA.	5	EA	\$ 5,000	\$ 25,000		
155	INLET & CASTING	3	EA	\$ 2,500	\$ 7,500		
161	END SECTION, 24- TO 30-IN	1	EA	\$ 1,000	\$ 1,000		
303	WATER QUALITY UNIT, <1.75 cfs TREATMENT RATE	1	EA	\$ 31,000	\$ 31,000		
DETENTION BASINS							
999	NOT USED	0	NU	\$ -	\$ -		
STORM SEWER REHABILITATION							
999	NOT USED	0	NU	\$ 15,000	\$ -		
HARDSCAPE ITEMS							
800	CURB AND GUTTER, REMOVE & REPLACE	1,825	LFT	\$ 30	\$ 54,750		
809	GEOGRID	2,435	SYD	\$ 3	\$ 7,305		
810	PAVEMENT REMOVAL & REPLACEMENT	2,435	SYD	\$ 30	\$ 73,050		
812	PAVEMENT SURFACE, 2 LANES	1,825	LFT	\$ 20	\$ 36,500		
817	SURFACE MILLING, 1 LANE	1,825	LFT	\$ 3	\$ 4,867		
820	DRIVEWAY REPLACEMENT	540	SYD	\$ 150	\$ 81,000		
RESTORATION ITEMS							
950	RESTORATION (LAWN AREAS)	1,825	LFT	\$ 5	\$ 9,125		
GENERAL ITEMS							
1000	MAINTENANCE OF TRAFFIC				\$ 10,000		
1010	CONSTRUCTION ENGINEERING				\$ 7,000		
1020	EROSION CONTROL				\$ 4,000		
1100	MOBILIZATION/DEMobilIZATION (5%) ROUNDED TO NEAREST \$1,000				\$ 27,000		
TOTALS, CONTINGENCIES, NON-CONSTRUCTION COSTS							
TOTAL (ROUNDED TO NEAREST \$10,000)					\$	570,000	
CONSTRUCTION CONTINGENCY (ROUNDED TO NEAREST \$10,000) @ 30%					\$	170,000	
TOTAL WITH CONSTRUCTION CONTINGENCY					\$	740,000	
ADMIN., ENGR., INSPECTION, CONSTRUCTION ADMINISTRATION (ROUNDED TO NEAREST \$10,000) @ 25%					\$	190,000	
PROJECT TOTAL (ROUNDED TO NEAREST \$10,000)					\$	930,000	
ASSUMPTIONS:							
1) COSTS ARE ESTIMATED IN YEAR 2022 DOLLARS AS OF JANUARY 2022.							
2) COSTS ARE HIGHLY VARIABLE DUE TO CURRENT SUPPLY AND LABOR ISSUES. OWNER TO CONFIRM PRIOR TO SECURING PROJECT FINANCING.							
3) COSTS DO NOT INCLUDE DEEP FOUNDATIONS, SPECIAL SOIL CONDITIONS, OR COSTS TO RELOCATE UTILITIES.							
4) COSTS DO NOT INCLUDE MITIGATING ENVIRONMENTAL CONDITIONS.							
5) COSTS ASSUME 1 LANE REMOVED AND REPLACED, OTHER LANE WILL BE MILLED AND BOTH LANES WILL BE SURFACED							
6) COSTS DO NOT INCLUDE EASEMENTS OR LAND ACQUISITIONS							

APPENDIX IV F

NEW SOUTH HAVEN: NSH 8 - PLYMOPUTH ROAD SEWER REPLACEMENT

OPINION OF PROBABLE CONSTRUCTION COST

Item	Description	Quantity	Unit	Unit Price	Amount	Notes	
REMOVAL AND ABANDONMENT ITEMS							
904	HEAVY VEGETATION REMOVAL	100	LFT	\$ 5	\$ 500		
910	MANHOLE, REMOVE	4	EA	\$ 500	\$ 2,000		
911	CATCH BASIN / INLET, REMOVE	3	EA	\$ 300	\$ 900		
STORM SEWER ITEMS							
100	STORM SEWER, 12-IN (STRUCTURE BACKFILL)	575	LFT	\$ 80	\$ 46,000		
101	STORM SEWER, 15-IN (STRUCTURE BACKFILL)	80	LFT	\$ 90	\$ 7,200		
102	STORM SEWER, 18-IN (STRUCTURE BACKFILL)	226	LFT	\$ 105	\$ 23,730		
155	INLET & CASTING	3	EA	\$ 2,500	\$ 7,500		
160	END SECTION, LESS THAN 24-IN	1	EA	\$ 500	\$ 500		
304	WATER QUALITY UNIT, <2.31 cfs TREATMENT RATE	1	EA	\$ 35,000	\$ 35,000		
DETENTION BASINS							
999	NOT USED	0	NU	\$ -	\$ -		
STORM SEWER REHABILITATION							
999	NOT USED	0	NU	\$ -	\$ -		
HARDSCAPE ITEMS							
800	CURB AND GUTTER, REMOVE & REPLACE	600	LFT	\$ 30	\$ 18,000		
801	SIDEWALK, REMOVE & REPLACE	85	SYD	\$ 110	\$ 9,350	The corner of 400W and Plymouth	
809	GEOGRID	800	SYD	\$ 3	\$ 2,400		
810	PAVEMENT REMOVAL & REPLACEMENT	800	SYD	\$ 30	\$ 24,000		
812	PAVEMENT SURFACE, 2 LANES	800	LFT	\$ 20	\$ 16,000		
817	SURFACE MILLING, 1 LANE	800	LFT	\$ 3	\$ 2,133		
820	DRIVEWAY REPLACEMENT	250	SYD	\$ 150	\$ 37,500		
RESTORATION ITEMS							
950	RESTORATION (LAWN AREAS)	600	LFT	\$ 5	\$ 3,000		
GENERAL ITEMS							
1000	MAINTENANCE OF TRAFFIC				\$ 6,000		
1010	CONSTRUCTION ENGINEERING				\$ 5,000		
1020	EROSION CONTROL				\$ 4,000		
1100	MOBILIZATION/DEMOBILIZATION (5%) ROUNDED TO NEAREST \$1,000				\$ 13,000		
TOTALS, CONTINGENCIES, NON-CONSTRUCTION COSTS							
TOTAL (ROUNDED TO NEAREST \$10,000)					\$	260,000	
CONSTRUCTION CONTINGENCY (ROUNDED TO NEAREST \$10,000) @ 30%					\$	80,000	
TOTAL WITH CONSTRUCTION CONTINGENCY					\$	340,000	
ADMIN., ENGR., INSPECTION, CONSTRUCTION ADMINISTRATION (ROUNDED TO NEAREST \$10,000) @ 25%					\$	90,000	
PROJECT TOTAL (ROUNDED TO NEAREST \$10,000)					\$	430,000	
ASSUMPTIONS:							
1) COSTS ARE ESTIMATED IN YEAR 2022 DOLLARS AS OF JANUARY 2022.							
2) COSTS ARE HIGHLY VARIABLE DUE TO CURRENT SUPPLY AND LABOR ISSUES. OWNER TO CONFIRM PRIOR TO SECURING PROJECT FINANCING.							
3) COSTS DO NOT INCLUDE DEEP FOUNDATIONS, SPECIAL SOIL CONDITIONS, OR COSTS TO RELOCATE UTILITIES.							
4) COSTS DO NOT INCLUDE MITIGATING ENVIRONMENTAL CONDITIONS.							
5) COSTS ASSUME 1 LANE REMOVED AND REPLACED, OTHER LANE WILL BE MILLED AND BOTH LANES WILL BE SURFACED							
6) COSTS DO NOT INCLUDE EASEMENTS OR LAND ACQUISITIONS							

APPENDIX IV F

NEW SOUTH HAVEN PROJECT: NSH 9 - 600 NORTH REPLACEMENTS

OPINION OF PROBABLE CONSTRUCTION COST

Item	Description	Quantity	Unit	Unit Price	Amount	Notes	
REMOVAL AND ABANDONMENT ITEMS							
904	HEAVY VEGETATION REMOVAL	1	LS	\$ 5,000	\$ 5,000	(ALLOWANCE)	
910	MANHOLE, REMOVE	2	EA	\$ 500	\$ 1,000		
STORM SEWER ITEMS							
100	STORM SEWER, 12-IN (STRUCTURE BACKFILL)	800	LFT	\$ 80	\$ 64,000		
140	STORM MANHOLE, 4-FT DIA.	2	EA	\$ 5,000	\$ 10,000		
DETENTION BASINS							
999	NOT USED	0	NU	\$ -	\$ -		
STORM SEWER REHABILITATION							
999	NOT USED	0	NU	\$ -	\$ -		
HARDSCAPE ITEMS							
999	NOT USED		NU	\$ -	\$ -		
RESTORATION ITEMS							
950	RESTORATION (LAWN AREAS)	800	LFT	\$ 5	\$ 4,000		
GENERAL ITEMS							
1000	MAINTENANCE OF TRAFFIC				\$ 5,000		
1010	CONSTRUCTION ENGINEERING				\$ 4,000		
1020	EROSION CONTROL				\$ 4,000		
1100	MOBILIZATION/DEMOBILIZATION (5%) ROUNDED TO NEAREST \$1,000				\$ 5,000		
TOTALS, CONTINGENCIES, NON-CONSTRUCTION COSTS							
TOTAL (ROUNDED TO NEAREST \$10,000)					\$	100,000	
CONSTRUCTION CONTINGENCY (ROUNDED TO NEAREST \$10,000) @ 30%					\$	30,000	
TOTAL WITH CONSTRUCTION CONTINGENCY					\$	130,000	
ADMIN., ENGR., INSPECTION, CONSTRUCTION ADMINISTRATION (ROUNDED TO NEAREST \$10,000) @ 25%					\$	30,000	
PROJECT TOTAL (ROUNDED TO NEAREST \$10,000)					\$	160,000	
ASSUMPTIONS:							
1) COSTS ARE ESTIMATED IN YEAR 2022 DOLLARS AS OF JANUARY 2022.							
2) COSTS ARE HIGHLY VARIABLE DUE TO CURRENT SUPPLY AND LABOR ISSUES. OWNER TO CONFIRM PRIOR TO SECURING PROJECT FINANCING.							
3) COSTS DO NOT INCLUDE DEEP FOUNDATIONS, SPECIAL SOIL CONDITIONS, OR COSTS TO RELOCATE UTILITIES.							
4) COSTS DO NOT INCLUDE MITIGATING ENVIRONMENTAL CONDITIONS.							
5) COSTS ASSUME 1 LANE REMOVED AND REPLACED, OTHER LANE WILL BE MILLED AND BOTH LANES WILL BE SURFACED							
6) COSTS DO NOT INCLUDE EASEMENTS OR LAND ACQUISITIONS							