

BASIS OF ESTIMATED PROJECT COST

ROADWAY

- 2 - 12' LANES, 2 - 6" MULTI. USE LANES
- B624 CONCRETE CURB AND GUTTER
- NO DRIVEWAY ENTRANCES
- 4" BITUMINOUS PAVEMENT, 6" AGGREGATE BASE

PAUL BUNYAN TRAIL RESTORATION

- BITUMINOUS PAVING
- TRUNCATED DOMES
- TURF RESTORATION
- SIGNS

REGIONAL STORMWATER SYSTEM

- STORM SEWER COLLECTION SYSTEM SIZED FOR PROPOSED ROADWAY SECTION AND INDIVIDUALS LOTS AT 50% IMPERVIOUS FOR THE 10-YEAR RAINFALL EVENT
- INDIVIDUAL LOTS SHALL PROVIDE ON-SITE STORMWATER RETENTION IF OVER 50% IMPERVIOUS
- PROPOSED STORM SEWER PIPE "STUBS" FOR INDIVIDUAL LOT CONNECTION TO REGIONAL SYSTEM
- NORTH & SOUTH REGIONAL INFILTRATION BASINS WITH LINED WET FOREBAYS FOR PRETREATMENT
- INFILTRATION BASINS ARE SIZED TO INFILTRATE THE 10-YEAR EVENT
- NORTH BASIN OVERFLOW - BETWEEN PAUL BUNYAN TRAIL & PATRIOT AVE.
- SOUTH BASIN OVERFLOW - HWY 371 DITCH
- FUTURE BALL FIELD FACILITY WILL HAVE TO PROVIDE ONSITE STORMWATER RETENTION

WATER DISTRIBUTION SYSTEM

- 8" PVC WATERMAIN
- 600' HYDRANT SPACING
- 6" PVC WATER SERVICES TO INDIVIDUAL LOTS

SANITARY SEWER SYSTEM

- 8" PVC SEWERMAIN
- 48" PRECAST STRUCTURES
- 6" PVC SEWER SERVICES
- 3" FORCEMAIN SEWER SERVICE FOR FUTURE BALL FIELD FACILITY

EARTHWORK

- ROADWAY CUT: 9,500 CU. YDS. FILL: 6,000 CU. YDS.
- NORTH POND CUT: 8,000 CU. YDS. FILL: 700 CU. YDS.
- SOUTH POND CUT: 15,000 CU. YDS. FILL: 0 CU. YDS.
- NOTE: EXCESS MATERIAL COULD BE USED TO IMPROVE THE TOPOGRAPHY OF SOME OF THE INDIVIDUAL LOTS

RESTORATION

- SCREENED TOPSOIL BARROW
- FERTILIZER TYPE 1
- SEED MIXTURE 25-151
- HYDRAULIC TYPE MULCH MATRIX

ESTIMATED PROJECT COST

PHASE 1: 6.7 ACRES

- ROADWAY - \$83,500
- STORM SEWER COLLECTION SYSTEM - \$7,000
- SANITARY SEWER COLLECTION SYSTEM - \$39,000
- WATER DISTRIBUTION SYSTEM - \$58,000

ESTIMATED CONSTRUCTION COST = \$187,500
 CONTINGENCIES (15%) = \$28,150
 SUBTOTAL = \$215,650
 ENGINEERING (15%) = \$32,350
 LEGAL AND OTHER COST (2%) = \$4,300
 ADMINISTRATION (2%) = \$4,300
ESTIMATED TOTAL PROJECT COST = \$257,000

PHASE 2: 13.1 ACRES

- ROADWAY - \$165,500
- PAUL BUNYAN TRAIL RESTORATION - \$6,000
- STORM SEWER COLLECTION SYSTEM - \$69,500
- NORTH INFILTRATION BASIN - \$103,000
- SANITARY SEWER COLLECTION SYSTEM - \$37,000
- WATER DISTRIBUTION SYSTEM - \$41,500

ESTIMATED CONSTRUCTION COST = \$422,500
 CONTINGENCIES (15%) = \$63,400
 SUBTOTAL = \$485,900
 ENGINEERING (15%) = \$72,900
 LEGAL AND OTHER COST (2%) = \$9,700
 ADMINISTRATION (2%) = \$9,700
ESTIMATED TOTAL PROJECT COST = \$578,000

PHASE 3: 24.7 ACRES

- ROADWAY - \$257,000
- STORM SEWER COLLECTION SYSTEM - \$73,000
- SANITARY SEWER COLLECTION SYSTEM - \$73,000
- WATER DISTRIBUTION SYSTEM - \$82,000

ESTIMATED CONSTRUCTION COST = \$485,000
 CONTINGENCIES (15%) = \$72,750
 SUBTOTAL = \$557,750
 ENGINEERING (15%) = \$83,650
 LEGAL AND OTHER COST (2%) = \$11,150
 ADMINISTRATION (2%) = \$11,150
ESTIMATED TOTAL PROJECT COST = \$664,000

PHASE 4: 9.4 ACRES

- ROADWAY - \$249,500
- PAUL BUNYAN TRAIL RESTORATION - \$9,500
- STORM SEWER COLLECTION SYSTEM - \$83,000
- SOUTH INFILTRATION BASIN - \$151,500
- SANITARY SEWER COLLECTION SYSTEM - \$10,500
- WATER DISTRIBUTION SYSTEM - \$69,000

ESTIMATED CONSTRUCTION COST = \$573,000
 CONTINGENCIES (15%) = \$85,950
 SUBTOTAL = \$658,950
 ENGINEERING (15%) = \$98,850
 LEGAL AND OTHER COST (2%) = \$13,200
 ADMINISTRATION (2%) = \$13,200
ESTIMATED TOTAL PROJECT COST = \$784,000

TOTAL PROJECT COST: 53.9 ACRES

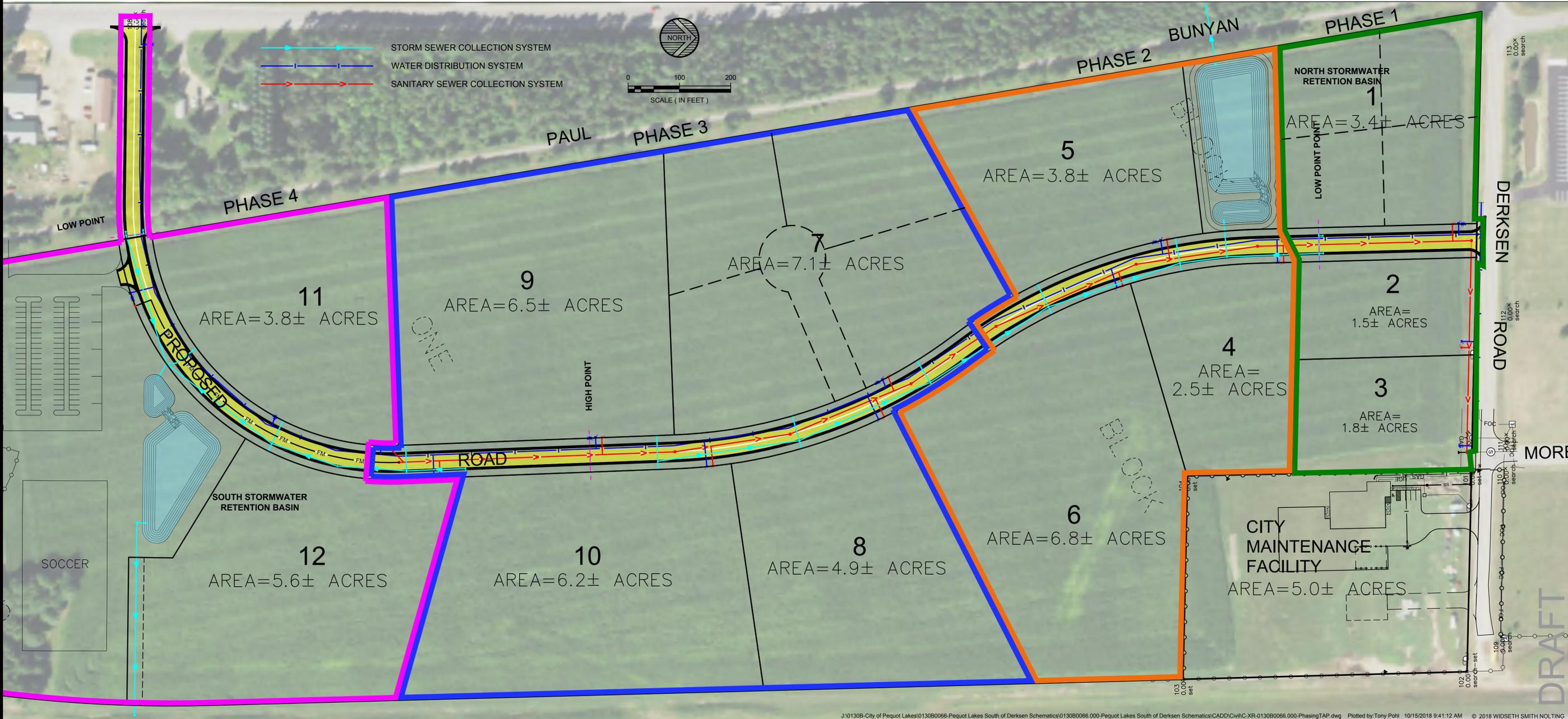
- ROADWAY - \$755,500
- PAUL BUNYAN TRAIL RESTORATION - \$15,500
- STORM SEWER COLLECTION SYSTEM - \$232,500
- SOUTH INFILTRATION BASIN - \$151,500
- NORTH INFILTRATION BASIN - \$103,000
- SANITARY SEWER COLLECTION SYSTEM - \$159,500
- WATER DISTRIBUTION SYSTEM - \$250,500

ESTIMATED CONSTRUCTION COST = \$1,668,000
 CONTINGENCIES (15%) = \$250,250
 SUBTOTAL = \$1,918,250
 ENGINEERING (15%) = \$287,750
 LEGAL AND OTHER COST (2%) = \$38,350
 ADMINISTRATION (2%) = \$38,350
ESTIMATED TOTAL PROJECT COST = \$2,283,000

PER ACRE TOTAL PROJECT COST CALCULATION:

TOTAL LOT ACRES = 53.9 ACRE,
 TOTAL PROJECT COST/ACRE = \$42,350/ACRE

TOTAL PROJECT COST/LOT = \$190,250/LOT



I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 DATE: 06/15/2018
 TIME: 10:15 AM
 PROJECT NO.: 0130B0066
 SHEET NO.: 1

DATE	REVISIONS DESCRIPTION

DATE: JUNE 2018
 SCALE: AS SHOWN
 DRAWN BY: TAP
 CHECKED BY: THH
 JOB NUMBER: 0130B0067.000