

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name : MARSHALL Segment Nbr : 045-601-010**

Original	Current
Unassigned/Unknown	Unassigned/Unknown
5	5
MIXED BITUMINOUS	MIXED BITUMINOUS
2	2
NOT DIVIDED	NOT DIVIDED
CSAH 3 TO CSAH 4	CSAH 3 TO CSAH 4
200	200
2018	2018
1.1	1.1
220	220
RURAL	RURAL
2 - RURAL : 150 - 1499	2 ( RURAL : 150 - 1499 )
2012	2012
0	0
No Special Message	No Special Message
2012 SP 045-601-008 M&OL	2012 SP 045-601-008 M&OL
	Interchange Override
	Segment Override

**Bridge Information**

**Status: Original**

Original	Current
45518	45518
4.82	4.82
1972	1972
MIDDLE RIVER	MIDDLE RIVER
	Number of Spans
93.2	93.2
38	38
100%	100%
	Comments
1 ( 0-149 )	1 ( 0-149 )

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	5 * 435413.5 / 60 * 25 * 1.1	\$997,823
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	5 * 2112 * 43.04 / 20 * 25	\$568,128
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	5 * 9433.84 / 60 * 25	\$19,654
Bridge	BridgeLength * BridgeWidth * UnitCost / BridgeLifeCycle * StatutoryNeedsYear * DevelopmentCost	93.2 * 38 * 173 / 80 * 25 * 1.15	\$220,188
Total Segment Cost	Signal Leg + Construction + Preservation + ROW + Bridge	\$0 + \$997,823 + \$568,128 + \$19,654 + \$220,188	\$1,805,793

SANEEDS - CSAH - Segment Report

Roadway Segment Information

Status : Original

County Name : MARSHALL Segment Nbr : 045-601-020

Original		Current
Unassigned/Unknown	Municipality	Unassigned/Unknown
14.1	Segment Length	14.1
BIT CONC OR ASPH	Existing Surface Type	BIT CONC OR ASPH
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
CSAH 4 TO N CO LINE	Termini	CSAH 4 TO N CO LINE
310	Present AADT	310
2018	Year of Count	2018
1.1	Projection Factor	1.1
341	Projected Traffic	341
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
1998	Latest Year SA funds	1998
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

Bridge Information

Status: Original

Original		Current
45519	Structure Number	45519
11.99	Milepoint	11.99
1973	Year Built	1973
TAMARAC RIVER	Feature Crossed	TAMARAC RIVER
	Type of Service	
	Number of Spans	
112.5	Bridge Length	112.5
36.2	Bridge Width	36.2
100%	Shared Structure	100%
	Comments	
1 ( 0-149 )	Bridge Group Code	1 ( 0-149 )

Segment Cost Information

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	14.1 * 435413.5 / 60 * 25 * 1.1	\$2,813,860
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	14.1 * 2112 * 43.04 / 20 * 25	\$1,602,121
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	14.1 * 9433.84 / 60 * 25	\$55,424
Bridge	BridgeLength * BridgeWidth * UnitCost / BridgeLifeCycle * StatutoryNeedsYear * DevelopmentCost	112.5 * 36.2 * 173 / 80 * 25 * 1.15	\$253,195
Total Segment Cost	Signal Leg + Construction + Preservation + ROW + Bridge	\$0 + \$2,813,860 + \$1,602,121 + \$55,424 + \$253,195	\$4,724,600

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name :**

**MARSHALL**

**Segment Nbr : 045-602-003**

**Original**

**Current**

Unassigned/Unknown	Municipality	Unassigned/Unknown
0.3	Segment Length	0.3
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
TH 1 TO0.30 M NE	Termini	TH 1 TO0.30 M NE
200	Present AADT	200
2018	Year of Count	2018
1.1	Projection Factor	1.1
220	Projected Traffic	220
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
1984	Latest Year SA funds	1984
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
SURF SAP 45-602-020, 2008	Comments	SURF SAP 45-602-020, 2008
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	0.3 * 435413.5 / 60 * 25 * 1.1	\$59,869
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	0.3 * 2112 * 43.04 / 20 * 25	\$34,088
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	0.3 * 9433.84 / 60 * 25	\$1,179
<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW</b>	<b>\$0 + \$59,869 + \$34,088 + \$1,179</b>	<b>\$95,136</b>

SANEEDS - CSAH - Segment Report

Roadway Segment Information

Status : Original

County Name : MARSHALL Segment Nbr : 045-602-007

Original		Current
Unassigned/Unknown	Municipality	Unassigned/Unknown
6	Segment Length	6
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
0.30 M E OF TH 1 TO WEST LIMITS OF VIKING	Termini	0.30 M E OF TH 1 TO WEST LIMITS OF VIKING
200	Present AADT	200
2018	Year of Count	2018
1.1	Projection Factor	1.1
220	Projected Traffic	220
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
2008	Latest Year SA funds	2008
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
SHOULDER GRADED ONLY SAP 45-602-16-2005	Comments	SHOULDER GRADED ONLY SAP 45-602-16-2005
SURFACE SAP 45-602-020, 2008		SURFACE SAP 45-602-020, 2008
	Interchange Override	
	Segment Override	

Culvert Information

Status: Original

Original		Current
96768	Structure Number	96768
6.27	Milepoint	6.27
1997	Year Built	1997
JUD DITCH # 14	Feature Crossed	JUD DITCH # 14
	Type of Service	
1	Number of Barrels	1
	Culvert Width	
	Culvert Height	
96	Culvert Length	96
67.99986186	Area of Waterway Opening	67.99986186
100%	Shared Structure	100%
	Comments	
1	Culvert Group Code	1

Segment Cost Information

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	6 * 435413.5 / 60 * 25 * 1.1	\$1,197,387
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	6 * 2112 * 43.04 / 20 * 25	\$681,754
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	6 * 9433.84 / 60 * 25	\$23,585

<b>Culvert</b>	<b>CulvertLength * Area * UnitCost / CulvertLifeCycle * StatutoryNeedsYear * DevelopmentCost</b>	<b>96 * 67.99986186 * 18.01 / 100 * 25 * 1.15</b>	<b>\$33,801</b>
<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW + Culvert</b>	<b>\$0 + \$1,197,387 + \$681,754 + \$23,585 + \$33,801</b>	<b>\$1,936,527</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

Status : Original

County Name :

**MARSHALL**

Segment Nbr : 045-602-020

**Original**

**Current**

VIKING	Municipality	VIKING
0.25	Segment Length	0.25
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
W LIM VIKING TO CSAH 11	Termini	W LIM VIKING TO CSAH 11
200	Present AADT	200
2018	Year of Count	2018
1.1	Projection Factor	1.1
220	Projected Traffic	220
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
2008	Latest Year SA funds	2008
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
SHOULDER WIDENING IN 2005 UNDER SAP 45-602-16, SURF IN 2008	Comments	SHOULDER WIDENING IN 2005 UNDER SAP 45-602-16, SURF IN 2008
SURFACE SAP 45-602-020, 2008		SURFACE SAP 45-602-020, 2008
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	0.25 * 435413.5 / 60 * 25 * 1.1	\$49,891
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	0.25 * 2112 * 43.04 / 20 * 25	\$28,406
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	0.25 * 9433.84 / 60 * 25	\$983
<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW</b>	<b>\$0 + \$49,891 + \$28,406 + \$983</b>	<b>\$79,280</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

Status : Original

County Name : **MARSHALL** Segment Nbr : **045-602-025**

Original		Current
VIKING	Municipality	VIKING
0.25	Segment Length	0.25
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
CSAH 11 TO E LIM VIKING	Termini	CSAH 11 TO E LIM VIKING
560	Present AADT	560
2018	Year of Count	2018
1.1	Projection Factor	1.1
616	Projected Traffic	616
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
2008	Latest Year SA funds	2008
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
SP 45-602-021, 2006	Comments	SP 45-602-021, 2006
SURFACE SAP 45-602-020, 2008		SURFACE SAP 45-602-020, 2008
Interchange Override		
Segment Override		

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	0.25 * 435413.5 / 60 * 25 * 1.1	\$49,891
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	0.25 * 2112 * 43.04 / 20 * 25	\$28,406
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	0.25 * 9433.84 / 60 * 25	\$983
Total Segment Cost	Signal Leg + Construction + Preservation + ROW	\$0 + \$49,891 + \$28,406 + \$983	\$79,280

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

Status : Original

County Name : **MARSHALL** Segment Nbr : 045-602-030

Original		Current
Unassigned/Unknown	Municipality	Unassigned/Unknown
1	Segment Length	1
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
E LIM VIKING TO 1.0 MI E	Termini	E LIM VIKING TO 1.0 MI E
560	Present AADT	560
2018	Year of Count	2018
1.1	Projection Factor	1.1
616	Projected Traffic	616
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
2008	Latest Year SA funds	2008
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
SP 45-602-021, 2006	Comments	SP 45-602-021, 2006
SURFACE SAP 45-602-020, 2008		SURFACE SAP 45-602-020, 2008
	Interchange Override	
	Segment Override	

**RailRoadCrossing Information**

Status: Original

Original		Current
CANADIAN PACIFIC RAILWAY	RailRoad Name	CANADIAN PACIFIC RAILWAY
696168R	USDOT Number	696168R
0.9	Located at Milepoint	0.9
1	Mainline Tracks	1
SIGNS ONLY	Protection Type	SIGNS ONLY
	Last Year Protection Upgraded	
72	Crossing Length	72
	Last Year Surfaced	
100%	Percentage of Cost	100%
	Comments	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	1 * 435413.5 / 60 * 25 * 1.1	\$199,565
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	1 * 2112 * 43.04 / 20 * 25	\$113,626
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	1 * 9433.84 / 60 * 25	\$3,931
RR Crossing Protection	UnitCost / RRCrossingLifeCycle * StatutoryNeedsYear	2000 / 25 * 25	\$2,000
RR Crossing Surface	SurfaceLength * UnitCost / RRCrossingLifeCycle * StatutoryNeedsYear	72 * 1750 / 25 * 25	\$126,000



<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW + RR Crossing Protection + RR Crossing Surface</b>	<b>\$0 + \$199,565 + \$113,626 + \$3,931 + \$2,000 + \$126,000</b>	<b>\$445,122</b>
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**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

Status : Original

County Name : **MARSHALL** Segment Nbr : **045-602-041**

Original		Current
Unassigned/Unknown	Municipality	Unassigned/Unknown
8.6	Segment Length	8.6
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
1.0 MI E OF E LIM OF VIKING TO TH 32	Termini	1.0 MI E OF E LIM OF VIKING TO TH 32
560	Present AADT	560
2018	Year of Count	2018
1.1	Projection Factor	1.1
616	Projected Traffic	616
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
2008	Latest Year SA funds	2008
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
SP 45-602-021, 2006	Comments	SP 45-602-021, 2006
SURFACE SAP 45-602-020, 2008		SURFACE SAP 45-602-020, 2008
	Interchange Override	
	Segment Override	

**RailRoadCrossing Information**

Status: Original

Original		Current
CANADIAN PACIFIC RAILWAY	RailRoad Name	CANADIAN PACIFIC RAILWAY
695921D	USDOT Number	695921D
1.6	Located at Milepoint	1.6
1	Mainline Tracks	1
SIGNS ONLY	Protection Type	SIGNS ONLY
	Last Year Protection Upgraded	
42	Crossing Length	42
	Last Year Surfaced	
100%	Percentage of Cost	100%
	Comments	

**RailRoadCrossing Information**

Status: Original

Original		Current
CANADIAN NATIONAL RAILWAY	RailRoad Name	CANADIAN NATIONAL RAILWAY
062285J	USDOT Number	062285J
8.6	Located at Milepoint	8.6
1	Mainline Tracks	1
SIGNS ONLY	Protection Type	SIGNS ONLY
	Last Year Protection Upgraded	
38	Crossing Length	38
	Last Year Surfaced	
100%	Percentage of Cost	100%
	Comments	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0

Construction	$\text{Length} * \text{UnitCost} / \text{ConstrLifeCycle} * \text{StatutoryNeedsYear} * \text{DevelopmentCost}$	$8.6 * 435413.5 / 60 * 25 * 1.1$	\$1,716,255
Preservation	$\text{Length} * \text{Quantity} * \text{UnitCost} / \text{PreservationLifeCycle} * \text{StatutoryNeedsYear}$	$8.6 * 2112 * 43.04 / 20 * 25$	\$977,180
ROW	$\text{Length} * \text{UnitCost} / \text{ROWLifeCycle} * \text{StatutoryNeedsYear}$	$8.6 * 9433.84 / 60 * 25$	\$33,805
RR Crossing Protection	$\text{UnitCost} / \text{RRCrossingLifeCycle} * \text{StatutoryNeedsYear}$	$2000 / 25 * 25$	\$2,000
RR Crossing Surface	$\text{SurfaceLength} * \text{UnitCost} / \text{RRCrossingLifeCycle} * \text{StatutoryNeedsYear}$	$42 * 1750 / 25 * 25$	\$73,500
RR Crossing Protection	$\text{UnitCost} / \text{RRCrossingLifeCycle} * \text{StatutoryNeedsYear}$	$2000 / 25 * 25$	\$2,000
RR Crossing Surface	$\text{SurfaceLength} * \text{UnitCost} / \text{RRCrossingLifeCycle} * \text{StatutoryNeedsYear}$	$38 * 1750 / 25 * 25$	\$66,500
Total Segment Cost	Signal Leg + Construction + Preservation + ROW + RR Crossing Protection + RR Crossing Surface + RR Crossing Protection + RR Crossing Surface	$\$0 + \$1,716,255 + \$977,180 + \$33,805 + \$2,000 + \$73,500 + \$2,000 + \$66,500$	\$2,871,240

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

Status : Original

County Name : **MARSHALL** Segment Nbr : 045-602-050

Original		Current
Unassigned/Unknown	Municipality	Unassigned/Unknown
4	Segment Length	4
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
TH 32 TO CSAH 12	Termini	TH 32 TO CSAH 12
180	Present AADT	180
2018	Year of Count	2018
1.1	Projection Factor	1.1
198	Projected Traffic	198
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
1994	Latest Year SA funds	1994
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Bridge Information**

Status: Original

Original		Current
45526	Structure Number	45526
18.89	Milepoint	18.89
1979	Year Built	1979
THIEF RIVER	Feature Crossed	THIEF RIVER
	Type of Service	
	Number of Spans	
144.1	Bridge Length	144.1
36	Bridge Width	36
100%	Shared Structure	100%
	Comments	
1 ( 0-149 )	Bridge Group Code	1 ( 0-149 )

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	4 * 435413.5 / 60 * 25 * 1.1	\$798,258
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	4 * 2112 * 43.04 / 20 * 25	\$454,502
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	4 * 9433.84 / 60 * 25	\$15,723
Bridge	BridgeLength * BridgeWidth * UnitCost / BridgeLifeCycle * StatutoryNeedsYear * DevelopmentCost	144.1 * 36 * 173 / 80 * 25 * 1.15	\$322,523
Total Segment Cost	Signal Leg + Construction + Preservation + ROW + Bridge	\$0 + \$798,258 + \$454,502 + \$15,723 + \$322,523	\$1,591,006

SANEEDS - CSAH - Segment Report

Roadway Segment Information

Status : Original

County Name : MARSHALL Segment Nbr : 045-602-060

Original		Current
Unassigned/Unknown	Municipality	Unassigned/Unknown
13.8	Segment Length	13.8
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
CSAH 12 TO TH 219	Termini	CSAH 12 TO TH 219
350	Present AADT	350
2018	Year of Count	2018
1.1	Projection Factor	1.1
385	Projected Traffic	385
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
2000	Latest Year SA funds	2000
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

Culvert Information

Status: Original

Original		Current
93579	Structure Number	93579
25.51	Milepoint	25.51
1982	Year Built	1982
JUD DITCH # 18	Feature Crossed	JUD DITCH # 18
	Type of Service	
2	Number of Barrels	2
14	Culvert Width	14
8	Culvert Height	8
55	Culvert Length	55
162.99989048	Area of Waterway Opening	162.99989048
100%	Shared Structure	100%
	Comments	
1	Culvert Group Code	1

Segment Cost Information

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	13.8 * 435413.5 / 60 * 25 * 1.1	\$2,753,990
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	13.8 * 2112 * 43.04 / 20 * 25	\$1,568,033
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	13.8 * 9433.84 / 60 * 25	\$54,245
Culvert	CulvertLength * Area * UnitCost / CulvertLifeCycle * StatutoryNeedsYear * DevelopmentCost	55 * 162.99989048 * 18.01 / 100 * 25 * 1.15	\$46,420
Total Segment Cost	Signal Leg + Construction + Preservation + ROW + Culvert	\$0 + \$2,753,990 + \$1,568,033 + \$54,245 + \$46,420	\$4,422,688

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name :**

**MARSHALL**

**Segment Nbr : 045-602-090**

**Original**

**Current**

Unassigned/Unknown	Municipality	Unassigned/Unknown
8.9	Segment Length	8.9
AGGREGATE SURF	Existing Surface Type	AGGREGATE SURF
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
TH 219 TO CSAH 54	Termini	TH 219 TO CSAH 54
55	Present AADT	55
2018	Year of Count	2018
1.1	Projection Factor	1.1
61	Projected Traffic	61
RURAL	Design Type	RURAL
1 - RURAL : 0 - 149	Design Group	1 ( RURAL : 0 - 149 )
1998	Latest Year SA funds	1998
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	8.9 * 217706.75 / 60 * 25 * 1.1	\$888,062
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	8.9 * 546 * 10.75 / 2 * 25	\$652,982
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	8.9 * 0 / 60 * 25	\$0
<b>Total Segment Cost</b>	<b>Construction + Preservation + ROW</b>	<b>\$888,062 + \$652,982 + \$0</b>	<b>\$1,541,044</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name :**

**MARSHALL**

**Segment Nbr : 045-603-010**

**Original**

**Current**

WARREN	Municipality	WARREN
0.03	Segment Length	0.03
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
TH 75 TO NO LIM WARREN	Termini	TH 75 TO NO LIM WARREN
880	Present AADT	880
2018	Year of Count	2018
1.1	Projection Factor	1.1
968	Projected Traffic	968
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
1997	Latest Year SA funds	1997
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	0.03 * 435413.5 / 60 * 25 * 1.1	\$5,987
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	0.03 * 2112 * 43.04 / 20 * 25	\$3,409
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	0.03 * 9433.84 / 60 * 25	\$118
<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW</b>	<b>\$0 + \$5,987 + \$3,409 + \$118</b>	<b>\$9,514</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name :**

**MARSHALL**

**Segment Nbr : 045-603-011**

**Original**

**Current**

Unassigned/Unknown	Municipality	Unassigned/Unknown
8.3	Segment Length	8.3
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
N LIM WARREN TO CSAH 14	Termini	N LIM WARREN TO CSAH 14
880	Present AADT	880
2018	Year of Count	2018
1.1	Projection Factor	1.1
968	Projected Traffic	968
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
1997	Latest Year SA funds	1997
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	8.3 * 435413.5 / 60 * 25 * 1.1	\$1,656,386
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	8.3 * 2112 * 43.04 / 20 * 25	\$943,092
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	8.3 * 9433.84 / 60 * 25	\$32,625
<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW</b>	<b>\$0 + \$1,656,386 + \$943,092 + \$32,625</b>	<b>\$2,632,103</b>



**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name :**

**MARSHALL**

**Segment Nbr : 045-603-030**

**Original**

**Current**

Unassigned/Unknown	Municipality	Unassigned/Unknown
6.7	Segment Length	6.7
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
CSAH 14 TO CSAH 4	Termini	CSAH 14 TO CSAH 4
330	Present AADT	330
2018	Year of Count	2018
1.1	Projection Factor	1.1
363	Projected Traffic	363
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
1997	Latest Year SA funds	1997
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	6.7 * 435413.5 / 60 * 25 * 1.1	\$1,337,082
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	6.7 * 2112 * 43.04 / 20 * 25	\$761,292
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	6.7 * 9433.84 / 60 * 25	\$26,336
<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW</b>	<b>\$0 + \$1,337,082 + \$761,292 + \$26,336</b>	<b>\$2,124,710</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

Status : Original

County Name : **MARSHALL** Segment Nbr : **045-604-010**

Original		Current
Unassigned/Unknown	Municipality	Unassigned/Unknown
5	Segment Length	5
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
TH 220 TO CSAH 10	Termini	TH 220 TO CSAH 10
195	Present AADT	195
2018	Year of Count	2018
1.1	Projection Factor	1.1
215	Projected Traffic	215
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
2010	Latest Year SA funds	2010
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
SHOULDERS GRADED IN 2009 SP 45-604-023	Comments	SHOULDERS GRADED IN 2009 SP 45-604-023
2010 SURFACED, SAP 45-604-024		2010 SURFACED, SAP 45-604-024
	Interchange Override	
	Segment Override	

**Bridge Information**

Status: Original

Original		Current
45506	Structure Number	45506
2.56	Milepoint	2.56
1964	Year Built	1964
SNAKE RIVER	Feature Crossed	SNAKE RIVER
	Type of Service	
	Number of Spans	
103	Bridge Length	103
30.1	Bridge Width	30.1
100%	Shared Structure	100%
	Comments	
1 ( 0-149 )	Bridge Group Code	1 ( 0-149 )

**Culvert Information**

Status: Original

Original		Current
45J34	Structure Number	45J34
0.172	Milepoint	0.172
2005	Year Built	2005
COULEE	Feature Crossed	COULEE
	Type of Service	
1	Number of Barrels	1
10	Culvert Width	10
4	Culvert Height	4
58	Culvert Length	58
40.9996951	Area of Waterway Opening	40.9996951
100%	Shared Structure	100%
	Comments	
1	Culvert Group Code	1

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result

Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	5 * 435413.5 / 60 * 25 * 1.1	\$997,823
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	5 * 2112 * 43.04 / 20 * 25	\$568,128
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	5 * 9433.84 / 60 * 25	\$19,654
Bridge	BridgeLength * BridgeWidth * UnitCost / BridgeLifeCycle * StatutoryNeedsYear * DevelopmentCost	103 * 30.1 * 173 / 80 * 25 * 1.15	\$192,751
Culvert	CulvertLength * Area * UnitCost / CulvertLifeCycle * StatutoryNeedsYear * DevelopmentCost	58 * 40.9996951 * 18.01 / 100 * 25 * 1.15	\$12,313
Total Segment Cost	Signal Leg + Construction + Preservation + ROW + Bridge + Culvert	\$0 + \$997,823 + \$568,128 + \$19,654 + \$192,751 + \$12,313	\$1,790,669

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

Status : Original

County Name : **MARSHALL** Segment Nbr : **045-604-020**

Original		Current
Unassigned/Unknown	Municipality	Unassigned/Unknown
8	Segment Length	8
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
CSAH 10 TO W LIM ARGYLE	Termini	CSAH 10 TO W LIM ARGYLE
570	Present AADT	570
2018	Year of Count	2018
1.1	Projection Factor	1.1
627	Projected Traffic	627
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
1994	Latest Year SA funds	1994
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Culvert Information**

Status: Original

Original		Current
96767	Structure Number	96767
9.01	Milepoint	9.01
1991	Year Built	1991
CO DITCH # 13	Feature Crossed	CO DITCH # 13
STREAM CROSSING	Type of Service	STREAM CROSSING
1	Number of Barrels	1
12	Culvert Width	12
8	Culvert Height	8
60	Culvert Length	60
94.00006231	Area of Waterway Opening	94.00006231
100%	Shared Structure	100%
	Comments	
1	Culvert Group Code	1

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	8 * 435413.5 / 60 * 25 * 1.1	\$1,596,516
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	8 * 2112 * 43.04 / 20 * 25	\$909,005
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	8 * 9433.84 / 60 * 25	\$31,446
Culvert	CulvertLength * Area * UnitCost / CulvertLifeCycle * StatutoryNeedsYear * DevelopmentCost	60 * 94.00006231 * 18.01 / 100 * 25 * 1.15	\$29,203
Total Segment Cost	Signal Leg + Construction + Preservation + ROW + Culvert	\$0 + \$1,596,516 + \$909,005 + \$31,446 + \$29,203	\$2,566,170

SANEEDS - CSAH - Segment Report

Roadway Segment Information

Status : Original

County Name : MARSHALL Segment Nbr : 045-604-030

Original		Current
ARGYLE	Municipality	ARGYLE
0.4	Segment Length	0.4
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
W LIM ARGYLE TO TH 75	Termini	W LIM ARGYLE TO TH 75
570	Present AADT	570
2018	Year of Count	2018
1.1	Projection Factor	1.1
627	Projected Traffic	627
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
1994	Latest Year SA funds	1994
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

RailRoadCrossing Information

Status: Original

Original		Current
BURLINGTON NORTHERN SANTA FE RAILWAY	RailRoad Name	BURLINGTON NORTHERN SANTA FE RAILWAY
081402D	USDOT Number	081402D
0.3	Located at Milepoint	0.3
1	Mainline Tracks	1
SIGNALS ONLY	Protection Type	SIGNALS ONLY
1988	Last Year Protection Upgraded	1988
40	Crossing Length	40
	Last Year Surfaced	
100%	Percentage of Cost	100%
	Comments	

Segment Cost Information

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	0.4 * 435413.5 / 60 * 25 * 1.1	\$79,826
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	0.4 * 2112 * 43.04 / 20 * 25	\$45,450
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	0.4 * 9433.84 / 60 * 25	\$1,572
RR Crossing Protection	UnitCost / RRCrossingLifeCycle * StatutoryNeedsYear	300000 / 25 * 25	\$300,000
RR Crossing Surface	SurfaceLength * UnitCost / RRCrossingLifeCycle * StatutoryNeedsYear	40 * 1750 / 25 * 25	\$70,000
Total Segment Cost	Signal Leg + Construction + Preservation + ROW + RR Crossing Protection + RR Crossing Surface	\$0 + \$79,826 + \$45,450 + \$1,572 + \$300,000 + \$70,000	\$496,848

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

Status : Original

County Name : **MARSHALL** Segment Nbr : **045-604-040**

Original		Current
ARGYLE	Municipality	ARGYLE
0.58	Segment Length	0.58
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
TH 75 TO E LIM ARGYLE	Termini	TH 75 TO E LIM ARGYLE
690	Present AADT	690
2018	Year of Count	2018
1.1	Projection Factor	1.1
759	Projected Traffic	759
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
2002	Latest Year SA funds	2002
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
GRADED IN 2002, TO BE OVERLAYED TO A 9 TON DESIGN UNDER THE SAME CONTRACT	Comments	GRADED IN 2002, TO BE OVERLAYED TO A 9 TON DESIGN UNDER THE SAME CONTRACT
	Interchange Override	
	Segment Override	

**Bridge Information**

Status: Original

Original		Current
45570	Structure Number	45570
13.49	Milepoint	13.49
2007	Year Built	2007
MIDDLE RIVER	Feature Crossed	MIDDLE RIVER
	Type of Service	
	Number of Spans	
93.5	Bridge Length	93.5
39.33	Bridge Width	39.33
100%	Shared Structure	100%
	Comments	
1 ( 0-149 )	Bridge Group Code	1 ( 0-149 )

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	0.58 * 435413.5 / 60 * 25 * 1.1	\$115,747
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	0.58 * 2112 * 43.04 / 20 * 25	\$65,903
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	0.58 * 9433.84 / 60 * 25	\$2,280
Bridge	BridgeLength * BridgeWidth * UnitCost / BridgeLifeCycle * StatutoryNeedsYear * DevelopmentCost	93.5 * 39.33 * 173 / 80 * 25 * 1.15	\$228,628
Total Segment Cost	Signal Leg + Construction + Preservation + ROW + Bridge	\$0 + \$115,747 + \$65,903 + \$2,280 + \$228,628	\$412,558

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name : MARSHALL Segment Nbr : 045-604-050**

Original		Current
Unassigned/Unknown	Municipality	Unassigned/Unknown
8	Segment Length	8
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
E LIM ARGYLE TO CSAH 1 NORTH	Termini	E LIM ARGYLE TO CSAH 1 NORTH
530	Present AADT	530
2018	Year of Count	2018
1.1	Projection Factor	1.1
583	Projected Traffic	583
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
2002	Latest Year SA funds	2002
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
GRADED IN 2002, TO BE OVERLAYED TO A 9 TON CAPACITY UNDER THE SAME CONTRACT.	Comments	GRADED IN 2002, TO BE OVERLAYED TO A 9 TON CAPACITY UNDER THE SAME CONTRACT.
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	8 * 435413.5 / 60 * 25 * 1.1	\$1,596,516
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	8 * 2112 * 43.04 / 20 * 25	\$909,005
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	8 * 9433.84 / 60 * 25	\$31,446
<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW</b>	<b>\$0 + \$1,596,516 + \$909,005 + \$31,446</b>	<b>\$2,536,967</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

Status : Original

County Name : **MARSHALL** Segment Nbr : **045-604-060**

Original		Current
Unassigned/Unknown	Municipality	Unassigned/Unknown
3.1	Segment Length	3.1
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
CSAH 1 TO CSAH 3	Termini	CSAH 1 TO CSAH 3
380	Present AADT	380
2018	Year of Count	2018
1.1	Projection Factor	1.1
418	Projected Traffic	418
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
2002	Latest Year SA funds	2002
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
GRADED IN 2002, TO BE OVERLAYED UNDER THE SAME CONTRACT TO 9 TON DESIGN.	Comments	GRADED IN 2002, TO BE OVERLAYED UNDER THE SAME CONTRACT TO 9 TON DESIGN.
	Interchange Override	
	Segment Override	

**Bridge Information**

Status: Original

Original		Current
45502	Structure Number	45502
22.6	Milepoint	22.6
1962	Year Built	1962
MIDDLE RIVER	Feature Crossed	MIDDLE RIVER
	Type of Service	
	Number of Spans	
75	Bridge Length	75
31.3	Bridge Width	31.3
100%	Shared Structure	100%
	Comments	
1 ( 0-149 )	Bridge Group Code	1 ( 0-149 )

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	3.1 * 435413.5 / 60 * 25 * 1.1	\$618,650
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	3.1 * 2112 * 43.04 / 20 * 25	\$352,239
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	3.1 * 9433.84 / 60 * 25	\$12,185
Bridge	BridgeLength * BridgeWidth * UnitCost / BridgeLifeCycle * StatutoryNeedsYear * DevelopmentCost	75 * 31.3 * 173 / 80 * 25 * 1.15	\$145,948
Total Segment Cost	Signal Leg + Construction + Preservation + ROW + Bridge	\$0 + \$618,650 + \$352,239 + \$12,185 + \$145,948	\$1,129,022



**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name :**

**MARSHALL**

**Segment Nbr : 045-604-070**

**Original**

**Current**

Unassigned/Unknown	Municipality	Unassigned/Unknown
6.3	Segment Length	6.3
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
CSAH 3 TO CSAH 28	Termini	CSAH 3 TO CSAH 28
680	Present AADT	680
2018	Year of Count	2018
1.1	Projection Factor	1.1
748	Projected Traffic	748
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
1997	Latest Year SA funds	1997
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	6.3 * 435413.5 / 60 * 25 * 1.1	\$1,257,256
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	6.3 * 2112 * 43.04 / 20 * 25	\$715,841
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	6.3 * 9433.84 / 60 * 25	\$24,764
<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW</b>	<b>\$0 + \$1,257,256 + \$715,841 + \$24,764</b>	<b>\$1,997,861</b>

SANEEDS - CSAH - Segment Report

Roadway Segment Information

Status : Original

County Name : MARSHALL Segment Nbr : 045-605-010

Original	Current
Unassigned/Unknown	Unassigned/Unknown
5	5
MIXED BITUMINOUS	MIXED BITUMINOUS
2	2
NOT DIVIDED	NOT DIVIDED
TH 220 TO CSAH 10	TH 220 TO CSAH 10
305	305
2018	2018
1.1	1.1
336	336
RURAL	RURAL
2 - RURAL : 150 - 1499	2 ( RURAL : 150 - 1499 )
2016	2016
0	0
No Special Message	No Special Message
2016 SAP 045-605-023 RECON PH1 G&B AND CULVERT R&R 45J50	2016 SAP 045-605-023 RECON PH1 G&B AND CULVERT R&R 45J50
2016 SAP 045-070-003 / 045-605-025 RECON PH2 PAVING IN 2017	2016 SAP 045-070-003 / 045-605-025 RECON PH2 PAVING IN 2017
	Interchange Override
	Segment Override

Culvert Information

Status: Original

Original	Current
96998	96998
1	1
1990	1990
CO DITCH # 12	CO DITCH # 12
1	1
12	12
8	8
106	106
65.99992924	65.99992924
100%	100%
	Comments
1	Culvert Group Code

Segment Cost Information

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	5 * 435413.5 / 60 * 25 * 1.1	\$997,823
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	5 * 2112 * 43.04 / 20 * 25	\$568,128
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	5 * 9433.84 / 60 * 25	\$19,654
Culvert	CulvertLength * Area * UnitCost / CulvertLifeCycle * StatutoryNeedsYear * DevelopmentCost	106 * 65.99992924 * 18.01 / 100 * 25 * 1.15	\$36,224

<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW + Culvert</b>	<b>\$0 + \$997,823 + \$568,128 + \$19,654 + \$36,224</b>	<b>\$1,621,829</b>
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SANEEDS - CSAH - Segment Report

Roadway Segment Information

Status : Original

County Name : MARSHALL Segment Nbr : 045-605-011

Original		Current
Unassigned/Unknown	Municipality	Unassigned/Unknown
5.1	Segment Length	5.1
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
CSAH 10 TO W LIM STEPHEN	Termini	CSAH 10 TO W LIM STEPHEN
460	Present AADT	460
2018	Year of Count	2018
1.1	Projection Factor	1.1
506	Projected Traffic	506
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
2016	Latest Year SA funds	2016
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
2016 SAP 045-605-023 RECON PH1 G&B AND CULVERT R&R 45J50 2016 SAP 045-070-003 / 045-605-025 RECON PH2 PAVING	Comments	2016 SAP 045-605-023 RECON PH1 G&B AND CULVERT R&R 45J50 2016 SAP 045-070-003 / 045-605-025 RECON PH2 PAVING
	Interchange Override	
	Segment Override	

Bridge Information

Status: Original

Original		Current
7095	Structure Number	7095
9.95	Milepoint	9.95
1953	Year Built	1953
TAMARAC RIVER	Feature Crossed	TAMARAC RIVER
	Type of Service	
	Number of Spans	
98	Bridge Length	98
26.5	Bridge Width	26.5
100%	Shared Structure	100%
	Comments	
1 ( 0-149 )	Bridge Group Code	1 ( 0-149 )

Segment Cost Information

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	5.1 * 435413.5 / 60 * 25 * 1.1	\$1,017,779
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	5.1 * 2112 * 43.04 / 20 * 25	\$579,491
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	5.1 * 9433.84 / 60 * 25	\$20,047
Bridge	BridgeLength * BridgeWidth * UnitCost / BridgeLifeCycle * StatutoryNeedsYear * DevelopmentCost	98 * 26.5 * 173 / 80 * 25 * 1.15	\$161,460
Total Segment Cost	Signal Leg + Construction + Preservation + ROW + Bridge	\$0 + \$1,017,779 + \$579,491 + \$20,047 + \$161,460	\$1,778,777

SANEEDS - CSAH - Segment Report

Roadway Segment Information

Status : Original

County Name : MARSHALL Segment Nbr : 045-605-020

Original		Current
STEPHEN	Municipality	STEPHEN
0.84	Segment Length	0.84
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
W LIM STEPHEN TO TH 75	Termini	W LIM STEPHEN TO TH 75
730	Present AADT	730
2018	Year of Count	2018
1.1	Projection Factor	1.1
803	Projected Traffic	803
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
2016	Latest Year SA funds	2016
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
2016 SAP 045-605-023 RECON PH1 G&B AND CULVERT R&R 45J50 2016 SAP 045-070-003 / 045-605-025 RECON PH2 PAVING	Comments	2016 SAP 045-605-023 RECON PH1 G&B AND CULVERT R&R 45J50 2016 SAP 045-070-003 / 045-605-025 RECON PH2 PAVING
	Interchange Override	
	Segment Override	

RailRoadCrossing Information

Status: Original

Original		Current
BURLINGTON NORTHERN SANTA FE RAILWAY	RailRoad Name	BURLINGTON NORTHERN SANTA FE RAILWAY
081416L	USDOT Number	081416L
0.7	Located at Milepoint	0.7
1	Mainline Tracks	1
SIGNALS ONLY	Protection Type	SIGNALS ONLY
1983	Last Year Protection Upgraded	1983
33	Crossing Length	33
	Last Year Surfaced	
100%	Percentage of Cost	100%
	Comments	

Segment Cost Information

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	0.84 * 435413.5 / 60 * 25 * 1.1	\$167,634
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	0.84 * 2112 * 43.04 / 20 * 25	\$95,446
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	0.84 * 9433.84 / 60 * 25	\$3,302
RR Crossing Protection	UnitCost / RRCrossingLifeCycle * StatutoryNeedsYear	300000 / 25 * 25	\$300,000
RR Crossing Surface	SurfaceLength * UnitCost / RRCrossingLifeCycle * StatutoryNeedsYear	33 * 1750 / 25 * 25	\$57,750

<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW + RR Crossing Protection + RR Crossing Surface</b>	<b>\$0 + \$167,634 + \$95,446 + \$3,302 + \$300,000 + \$57,750</b>	<b>\$624,132</b>
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**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name :**

**MARSHALL**

**Segment Nbr : 045-605-030**

**Original**

**Current**

STEPHEN	Municipality	STEPHEN
0.29	Segment Length	0.29
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
TH 75 TO E LIMITS OF STEPHEN	Termini	TH 75 TO E LIMITS OF STEPHEN
580	Present AADT	580
2018	Year of Count	2018
1.1	Projection Factor	1.1
638	Projected Traffic	638
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
2004	Latest Year SA funds	2004
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
RESURFACED SAP 45-605-19	Comments	RESURFACED SAP 45-605-19
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	0.29 * 435413.5 / 60 * 25 * 1.1	\$57,874
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	0.29 * 2112 * 43.04 / 20 * 25	\$32,951
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	0.29 * 9433.84 / 60 * 25	\$1,140
<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW</b>	<b>\$0 + \$57,874 + \$32,951 + \$1,140</b>	<b>\$91,965</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

Status : Original

County Name : **MARSHALL** Segment Nbr : **045-605-040**

Original		Current
Unassigned/Unknown	Municipality	Unassigned/Unknown
1.9	Segment Length	1.9
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
E LIMITS OF STEPHEN TO CSAH	Termini	E LIMITS OF STEPHEN TO CSAH
23		23
460	Present AADT	460
2018	Year of Count	2018
1.1	Projection Factor	1.1
506	Projected Traffic	506
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
2004	Latest Year SA funds	2004
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
RESURFACED SAP 45-605-19	Comments	RESURFACED SAP 45-605-19
	Interchange Override	
	Segment Override	

**Culvert Information**

Status: Original

Original		Current
45J11	Structure Number	45J11
12.088	Milepoint	12.088
1996	Year Built	1996
COULEE	Feature Crossed	COULEE
STREAM CROSSING	Type of Service	STREAM CROSSING
1	Number of Barrels	1
10	Culvert Width	10
4	Culvert Height	4
54	Culvert Length	54
39.99972879	Area of Waterway Opening	39.99972879
100%	Shared Structure	100%
	Comments	
1	Culvert Group Code	1

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	1.9 * 435413.5 / 60 * 25 * 1.1	\$379,173
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	1.9 * 2112 * 43.04 / 20 * 25	\$215,889
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	1.9 * 9433.84 / 60 * 25	\$7,468
Culvert	CulvertLength * Area * UnitCost / CulvertLifeCycle * StatutoryNeedsYear * DevelopmentCost	54 * 39.99972879 * 18.01 / 100 * 25 * 1.15	\$11,184



<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW + Culvert</b>	<b>\$0 + \$379,173 + \$215,889 + \$7,468 + \$11,184</b>	<b>\$613,714</b>
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**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name :**

**MARSHALL**

**Segment Nbr : 045-605-050**

**Original**

**Current**

Unassigned/Unknown	Municipality	Unassigned/Unknown
3	Segment Length	3
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
CSAH 23 TO 5 MI E OF E LIMITS OF STEPHEN	Termini	CSAH 23 TO 5 MI E OF E LIMITS OF STEPHEN
340	Present AADT	340
2018	Year of Count	2018
1.1	Projection Factor	1.1
374	Projected Traffic	374
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
2004	Latest Year SA funds	2004
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
RESURFACED SAP 45-605-19	Comments	RESURFACED SAP 45-605-19
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	3 * 435413.5 / 60 * 25 * 1.1	\$598,694
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	3 * 2112 * 43.04 / 20 * 25	\$340,877
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	3 * 9433.84 / 60 * 25	\$11,792
<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW</b>	<b>\$0 + \$598,694 + \$340,877 + \$11,792</b>	<b>\$951,363</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name :**

**MARSHALL**

**Segment Nbr : 045-605-051**

**Original**

**Current**

Unassigned/Unknown	Municipality	Unassigned/Unknown
2	Segment Length	2
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
5.0 MI E OF E LIM STEPHEN TO CSAH 13	Termini	5.0 MI E OF E LIM STEPHEN TO CSAH 13
340	Present AADT	340
2018	Year of Count	2018
1.1	Projection Factor	1.1
374	Projected Traffic	374
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
2018	Latest Year SA funds	2018
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
2018 SAP 045-605-027 M&OL	Comments	2018 SAP 045-605-027 M&OL
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	2 * 435413.5 / 60 * 25 * 1.1	\$399,129
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	2 * 2112 * 43.04 / 20 * 25	\$227,251
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	2 * 9433.84 / 60 * 25	\$7,862
<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW</b>	<b>\$0 + \$399,129 + \$227,251 + \$7,862</b>	<b>\$634,242</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name :**

**MARSHALL**

**Segment Nbr : 045-605-060**

**Original**

**Current**

Unassigned/Unknown	Municipality	Unassigned/Unknown
6	Segment Length	6
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
CSAH 13 TO CSAH 1	Termini	CSAH 13 TO CSAH 1
185	Present AADT	185
2018	Year of Count	2018
1.1	Projection Factor	1.1
204	Projected Traffic	204
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
1990	Latest Year SA funds	1990
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	6 * 435413.5 / 60 * 25 * 1.1	\$1,197,387
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	6 * 2112 * 43.04 / 20 * 25	\$681,754
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	6 * 9433.84 / 60 * 25	\$23,585
<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW</b>	<b>\$0 + \$1,197,387 + \$681,754 + \$23,585</b>	<b>\$1,902,726</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

Status : Original

County Name : **MARSHALL** Segment Nbr : **045-605-070**

Original		Current
Unassigned/Unknown	Municipality	Unassigned/Unknown
8	Segment Length	8
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
CSAH 1 TO CSAH 28	Termini	CSAH 1 TO CSAH 28
130	Present AADT	130
2018	Year of Count	2018
1.1	Projection Factor	1.1
143	Projected Traffic	143
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
2016	Latest Year SA funds	2016
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
2016 SAP 045-605-026 M&OL	Comments	2016 SAP 045-605-026 M&OL
2015 SAP 045-605-024 CULVERT 45J51 REPLACE BR		2015 SAP 045-605-024 CULVERT 45J51 REPLACE BR
	Interchange Override	
	Segment Override	

**Culvert Information**

Status: Original

Original		Current
45J51	Structure Number	45J51
26.29	Milepoint	26.29
2015	Year Built	2015
TAMARAC RIVER	Feature Crossed	TAMARAC RIVER
	Type of Service	
2	Number of Barrels	2
16	Culvert Width	16
12	Culvert Height	12
76	Culvert Length	76
192	Area of Waterway Opening	192
100%	Shared Structure	100%
2015 SAP 045-605-024 CULVERT 45J51 REPLACE BR	Comments	2015 SAP 045-605-024 CULVERT 45J51 REPLACE BR
1	Culvert Group Code	1

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	8 * 435413.5 / 60 * 25 * 1.1	\$1,596,516
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	8 * 2112 * 43.04 / 20 * 25	\$909,005
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	8 * 9433.84 / 60 * 25	\$31,446

Culvert	CulvertLength * Area * UnitCost / CulvertLifeCycle * StatutoryNeedsYear * DevelopmentCost	76 * 192 * 18.01 / 100 * 25 * 1.15	\$75,556
Total Segment Cost	Signal Leg + Construction + Preservation + ROW + Culvert	\$0 + \$1,596,516 + \$909,005 + \$31,446 + \$75,556	\$2,612,523

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name :**

**MARSHALL**

**Segment Nbr : 045-606-010**

**Original**

**Current**

Unassigned/Unknown	Municipality	Unassigned/Unknown
1.8	Segment Length	1.8
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
TH 75 TO CR 109	Termini	TH 75 TO CR 109
360	Present AADT	360
2018	Year of Count	2018
1.1	Projection Factor	1.1
396	Projected Traffic	396
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
1991	Latest Year SA funds	1991
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	1.8 * 435413.5 / 60 * 25 * 1.1	\$359,216
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	1.8 * 2112 * 43.04 / 20 * 25	\$204,526
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	1.8 * 9433.84 / 60 * 25	\$7,075
<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW</b>	<b>\$0 + \$359,216 + \$204,526 + \$7,075</b>	<b>\$570,817</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name :**

**MARSHALL**

**Segment Nbr : 045-606-020**

**Original**

**Current**

Unassigned/Unknown	Municipality	Unassigned/Unknown
9.7	Segment Length	9.7
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
CR 109 TO CSAH 1	Termini	CR 109 TO CSAH 1
360	Present AADT	360
2018	Year of Count	2018
1.1	Projection Factor	1.1
396	Projected Traffic	396
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
1995	Latest Year SA funds	1995
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	9.7 * 435413.5 / 60 * 25 * 1.1	\$1,935,776
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	9.7 * 2112 * 43.04 / 20 * 25	\$1,102,168
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	9.7 * 9433.84 / 60 * 25	\$38,128
<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW</b>	<b>\$0 + \$1,935,776 + \$1,102,168 + \$38,128</b>	<b>\$3,076,072</b>



SANEEDS - CSAH - Segment Report

Roadway Segment Information

Status : Original

County Name : MARSHALL Segment Nbr : 045-606-030

Original		Current
Unassigned/Unknown	Municipality	Unassigned/Unknown
2	Segment Length	2
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
CSAH 1 TO 2.0 MI E	Termini	CSAH 1 TO 2.0 MI E
195	Present AADT	195
2018	Year of Count	2018
1.1	Projection Factor	1.1
215	Projected Traffic	215
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
2015	Latest Year SA funds	2015
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
2015 SAP 045-606-029 PH2 PAVING	Comments	2015 SAP 045-606-029 PH2 PAVING
2014 SAP 045-606-028 PH1 RECONST G&B		2014 SAP 045-606-028 PH1 RECONST G&B
	Interchange Override	
	Segment Override	

Bridge Information

Status: Original

Original		Current
45513	Structure Number	45513
13.39	Milepoint	13.39
1966	Year Built	1966
TAMARAC RIVER	Feature Crossed	TAMARAC RIVER
	Type of Service	
	Number of Spans	
81.1	Bridge Length	81.1
31.3	Bridge Width	31.3
100%	Shared Structure	100%
	Comments	
1 ( 0-149 )	Bridge Group Code	1 ( 0-149 )

Segment Cost Information

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	2 * 435413.5 / 60 * 25 * 1.1	\$399,129
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	2 * 2112 * 43.04 / 20 * 25	\$227,251
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	2 * 9433.84 / 60 * 25	\$7,862
Bridge	BridgeLength * BridgeWidth * UnitCost / BridgeLifeCycle * StatutoryNeedsYear * DevelopmentCost	81.1 * 31.3 * 173 / 80 * 25 * 1.15	\$157,819
Total Segment Cost	Signal Leg + Construction + Preservation + ROW + Bridge	\$0 + \$399,129 + \$227,251 + \$7,862 + \$157,819	\$792,061

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name : MARSHALL Segment Nbr : 045-606-040**

Original		Current
Unassigned/Unknown	Municipality	Unassigned/Unknown
6	Segment Length	6
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
2.0 MI E CSAH 1 TO CSAH 28	Termini	2.0 MI E CSAH 1 TO CSAH 28
195	Present AADT	195
2018	Year of Count	2018
1.1	Projection Factor	1.1
215	Projected Traffic	215
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
2015	Latest Year SA funds	2015
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
2015 SAP 045-606-029 PH2 PAVING	Comments	2015 SAP 045-606-029 PH2 PAVING
2014 SAP 045-606-028 PH1 RECONST G&B		2014 SAP 045-606-028 PH1 RECONST G&B
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	6 * 435413.5 / 60 * 25 * 1.1	\$1,197,387
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	6 * 2112 * 43.04 / 20 * 25	\$681,754
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	6 * 9433.84 / 60 * 25	\$23,585
Total Segment Cost	Signal Leg + Construction + Preservation + ROW	\$0 + \$1,197,387 + \$681,754 + \$23,585	\$1,902,726

SANEEDS - CSAH - Segment Report

Roadway Segment Information

Status : Original

County Name : MARSHALL Segment Nbr : 045-606-050

Original		Current
Unassigned/Unknown	Municipality	Unassigned/Unknown
2.2	Segment Length	2.2
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
CSAH 28 TO TH 59	Termini	CSAH 28 TO TH 59
195	Present AADT	195
2018	Year of Count	2018
1.1	Projection Factor	1.1
215	Projected Traffic	215
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
2015	Latest Year SA funds	2015
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
2015 SAP 045-606-029 PH2 PAVING	Comments	2015 SAP 045-606-029 PH2 PAVING
2014 SAP 045-606-028 PH1 RECONST G&B		2014 SAP 045-606-028 PH1 RECONST G&B
	Interchange Override	
	Segment Override	

Segment Cost Information

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	2.2 * 435413.5 / 60 * 25 * 1.1	\$439,042
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	2.2 * 2112 * 43.04 / 20 * 25	\$249,976
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	2.2 * 9433.84 / 60 * 25	\$8,648
Total Segment Cost	Signal Leg + Construction + Preservation + ROW	\$0 + \$439,042 + \$249,976 + \$8,648	\$697,666

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

Status : Original

County Name : **MARSHALL** Segment Nbr : 045-606-051

Original		Current
Unassigned/Unknown	Municipality	Unassigned/Unknown
3.8	Segment Length	3.8
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
TH 59 TO CSAH 8	Termini	TH 59 TO CSAH 8
195	Present AADT	195
2018	Year of Count	2018
1.1	Projection Factor	1.1
215	Projected Traffic	215
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
2015	Latest Year SA funds	2015
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
2015 SAP 045-606-029 PH2 PAVING	Comments	2015 SAP 045-606-029 PH2 PAVING
2014 SAP 045-606-028 PH1 RECONST G&B		2014 SAP 045-606-028 PH1 RECONST G&B
	Interchange Override	
	Segment Override	

**RailRoadCrossing Information**

Status: Original

Original		Current
CANADIAN PACIFIC RAILWAY	RailRoad Name	CANADIAN PACIFIC RAILWAY
695947F	USDOT Number	695947F
0.1	Located at Milepoint	0.1
1	Mainline Tracks	1
SIGNS ONLY	Protection Type	SIGNS ONLY
	Last Year Protection Upgraded	
42	Crossing Length	42
	Last Year Surfaced	
100%	Percentage of Cost	100%
	Comments	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	3.8 * 435413.5 / 60 * 25 * 1.1	\$758,345
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	3.8 * 2112 * 43.04 / 20 * 25	\$431,777
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	3.8 * 9433.84 / 60 * 25	\$14,937
RR Crossing Protection	UnitCost / RRCrossingLifeCycle * StatutoryNeedsYear	2000 / 25 * 25	\$2,000
RR Crossing Surface	SurfaceLength * UnitCost / RRCrossingLifeCycle * StatutoryNeedsYear	42 * 1750 / 25 * 25	\$73,500

<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW + RR Crossing Protection + RR Crossing Surface</b>	<b>\$0 + \$758,345 + \$431,777 + \$14,937 + \$2,000 + \$73,500</b>	<b>\$1,280,559</b>
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**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name : MARSHALL Segment Nbr : 045-606-060**

Original		Current
Unassigned/Unknown	Municipality	Unassigned/Unknown
7	Segment Length	7
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
CSAH 8 TO W LIM MIDDLE RIVER	Termini	CSAH 8 TO W LIM MIDDLE RIVER
300	Present AADT	300
2018	Year of Count	2018
1.1	Projection Factor	1.1
330	Projected Traffic	330
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
2014	Latest Year SA funds	2014
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
2014 SAP 045-606-028 RECONST	Comments	2014 SAP 045-606-028 RECONST
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	7 * 435413.5 / 60 * 25 * 1.1	\$1,396,952
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	7 * 2112 * 43.04 / 20 * 25	\$795,379
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	7 * 9433.84 / 60 * 25	\$27,515
<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW</b>	<b>\$0 + \$1,396,952 + \$795,379 + \$27,515</b>	<b>\$2,219,846</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

Status : Original

County Name : **MARSHALL** Segment Nbr : **045-606-070**

Original		Current
MIDDLE RIVER	Municipality	MIDDLE RIVER
0.04	Segment Length	0.04
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
W LIM MIDDLE RIVER TO TH 32	Termini	W LIM MIDDLE RIVER TO TH 32
300	Present AADT	300
2018	Year of Count	2018
1.1	Projection Factor	1.1
330	Projected Traffic	330
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
2001	Latest Year SA funds	2001
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**RailRoadCrossing Information**

Status: Original

Original		Current
BURLINGTON NORTHERN SANTA FE RAILWAY	RailRoad Name	BURLINGTON NORTHERN SANTA FE RAILWAY
062318U	USDOT Number	062318U
0.01	Located at Milepoint	0.01
1	Mainline Tracks	1
SIGNS ONLY	Protection Type	SIGNS ONLY
	Last Year Protection Upgraded	
38	Crossing Length	38
	Last Year Surfaced	
100%	Percentage of Cost	100%
	Comments	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	0.04 * 435413.5 / 60 * 25 * 1.1	\$7,983
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	0.04 * 2112 * 43.04 / 20 * 25	\$4,545
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	0.04 * 9433.84 / 60 * 25	\$157
RR Crossing Protection	UnitCost / RRCrossingLifeCycle * StatutoryNeedsYear	2000 / 25 * 25	\$2,000
RR Crossing Surface	SurfaceLength * UnitCost / RRCrossingLifeCycle * StatutoryNeedsYear	38 * 1750 / 25 * 25	\$66,500
Total Segment Cost	Signal Leg + Construction + Preservation + ROW + RR Crossing Protection + RR Crossing Surface	\$0 + \$7,983 + \$4,545 + \$157 + \$2,000 + \$66,500	\$81,185

SANEEDS - CSAH - Segment Report

Roadway Segment Information

Status : Original

County Name : MARSHALL Segment Nbr : 045-606-080

Original		Current
MIDDLE RIVER	Municipality	MIDDLE RIVER
0.46	Segment Length	0.46
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
TH 32 TO E LIM MIDDLE RIVER	Termini	TH 32 TO E LIM MIDDLE RIVER
490	Present AADT	490
2018	Year of Count	2018
1.1	Projection Factor	1.1
539	Projected Traffic	539
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
2003	Latest Year SA funds	2003
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
GRADE WIDENED IN 2001, TO BE OVERLAYED IN 2003 TO A 9 TON CAPACITY.	Comments	GRADE WIDENED IN 2001, TO BE OVERLAYED IN 2003 TO A 9 TON CAPACITY.
	Interchange Override	
	Segment Override	

Segment Cost Information

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	0.46 * 435413.5 / 60 * 25 * 1.1	\$91,800
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	0.46 * 2112 * 43.04 / 20 * 25	\$52,268
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	0.46 * 9433.84 / 60 * 25	\$1,808
Total Segment Cost	Signal Leg + Construction + Preservation + ROW	\$0 + \$91,800 + \$52,268 + \$1,808	\$145,876



**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

Status : Original

County Name : **MARSHALL** Segment Nbr : **045-606-091**

Original		Current
Unassigned/Unknown	Municipality	Unassigned/Unknown
9.7	Segment Length	9.7
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
E LIMITS OF MIDDLE RIVER TO CSAH 49	Termini	E LIMITS OF MIDDLE RIVER TO CSAH 49
490	Present AADT	490
2018	Year of Count	2018
1.1	Projection Factor	1.1
539	Projected Traffic	539
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
2003	Latest Year SA funds	2003
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Bridge Information**

Status: Original

Original		Current
45568	Structure Number	45568
42.32	Milepoint	42.32
2004	Year Built	2004
THIEF RIVER	Feature Crossed	THIEF RIVER
STREAM CROSSING	Type of Service	STREAM CROSSING
3	Number of Spans	3
90.5	Bridge Length	90.5
39.3	Bridge Width	39.3
100%	Shared Structure	100%
	Comments	
1 ( 0-149 )	Bridge Group Code	1 ( 0-149 )

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	9.7 * 435413.5 / 60 * 25 * 1.1	\$1,935,776
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	9.7 * 2112 * 43.04 / 20 * 25	\$1,102,168
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	9.7 * 9433.84 / 60 * 25	\$38,128
Bridge	BridgeLength * BridgeWidth * UnitCost / BridgeLifeCycle * StatutoryNeedsYear * DevelopmentCost	90.5 * 39.3 * 173 / 80 * 25 * 1.15	\$221,124
Total Segment Cost	Signal Leg + Construction + Preservation + ROW + Bridge	\$0 + \$1,935,776 + \$1,102,168 + \$38,128 + \$221,124	\$3,297,196

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

Status : Original

County Name : **MARSHALL** Segment Nbr : 045-606-100

Original		Current
Unassigned/Unknown	Municipality	Unassigned/Unknown
2	Segment Length	2
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
CSAH 49 TO 2.0 MI E	Termini	CSAH 49 TO 2.0 MI E
170	Present AADT	170
2018	Year of Count	2018
1.1	Projection Factor	1.1
187	Projected Traffic	187
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
2004	Latest Year SA funds	2004
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
GRADE WIDENED IN 2002, TO BE OVERLAYED IN 2003 INCREASING SEGMENT TO A 9 TON CAPACITY	Comments	GRADE WIDENED IN 2002, TO BE OVERLAYED IN 2003 INCREASING SEGMENT TO A 9 TON CAPACITY
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	2 * 435413.5 / 60 * 25 * 1.1	\$399,129
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	2 * 2112 * 43.04 / 20 * 25	\$227,251
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	2 * 9433.84 / 60 * 25	\$7,862
Total Segment Cost	Signal Leg + Construction + Preservation + ROW	\$0 + \$399,129 + \$227,251 + \$7,862	\$634,242

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name : MARSHALL Segment Nbr : 045-606-110**

Original		Current
Unassigned/Unknown	Municipality	Unassigned/Unknown
9	Segment Length	9
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
2.0 MI E CSAH 49 TO TH 89	Termini	2.0 MI E CSAH 49 TO TH 89
170	Present AADT	170
2018	Year of Count	2018
1.1	Projection Factor	1.1
187	Projected Traffic	187
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
2003	Latest Year SA funds	2003
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
GRADE WIDENED IN 2002, TO BE OVERLAYED IN 2003 ACHIEVING A 9 TON CAPACITY.	Comments	GRADE WIDENED IN 2002, TO BE OVERLAYED IN 2003 ACHIEVING A 9 TON CAPACITY.
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	9 * 435413.5 / 60 * 25 * 1.1	\$1,796,081
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	9 * 2112 * 43.04 / 20 * 25	\$1,022,630
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	9 * 9433.84 / 60 * 25	\$35,377
Total Segment Cost	Signal Leg + Construction + Preservation + ROW	\$0 + \$1,796,081 + \$1,022,630 + \$35,377	\$2,854,088

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name :**

**MARSHALL**

**Segment Nbr : 045-606-120**

**Original**

**Current**

Unassigned/Unknown	Municipality	Unassigned/Unknown
3	Segment Length	3
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
TH 89 TO 3 MI. EAST	Termini	TH 89 TO 3 MI. EAST
170	Present AADT	170
2018	Year of Count	2018
1.1	Projection Factor	1.1
187	Projected Traffic	187
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
1993	Latest Year SA funds	1993
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	3 * 435413.5 / 60 * 25 * 1.1	\$598,694
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	3 * 2112 * 43.04 / 20 * 25	\$340,877
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	3 * 9433.84 / 60 * 25	\$11,792
<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW</b>	<b>\$0 + \$598,694 + \$340,877 + \$11,792</b>	<b>\$951,363</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name :**

**MARSHALL**

**Segment Nbr : 045-606-130**

**Original**

**Current**

Unassigned/Unknown	Municipality	Unassigned/Unknown
3	Segment Length	3
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
3 MI. EAST OF TH 89 TO CSAH 54	Termini	3 MI. EAST OF TH 89 TO CSAH 54
95	Present AADT	95
2018	Year of Count	2018
1.1	Projection Factor	1.1
105	Projected Traffic	105
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
1993	Latest Year SA funds	1993
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	3 * 435413.5 / 60 * 25 * 1.1	\$598,694
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	3 * 2112 * 43.04 / 20 * 25	\$340,877
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	3 * 9433.84 / 60 * 25	\$11,792
<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW</b>	<b>\$0 + \$598,694 + \$340,877 + \$11,792</b>	<b>\$951,363</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name :**

**MARSHALL**

**Segment Nbr : 045-607-010**

**Original**

**Current**

Unassigned/Unknown	Municipality	Unassigned/Unknown
1.7	Segment Length	1.7
AGGREGATE SURF	Existing Surface Type	AGGREGATE SURF
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
CSAH 8 TO TH 59	Termini	CSAH 8 TO TH 59
70	Present AADT	70
2018	Year of Count	2018
1.1	Projection Factor	1.1
77	Projected Traffic	77
RURAL	Design Type	RURAL
1 - RURAL : 0 - 149	Design Group	1 ( RURAL : 0 - 149 )
1998	Latest Year SA funds	1998
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	1.7 * 217706.75 / 60 * 25 * 1.1	\$169,630
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	1.7 * 546 * 10.75 / 2 * 25	\$124,727
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	1.7 * 0 / 60 * 25	\$0
<b>Total Segment Cost</b>	<b>Construction + Preservation + ROW</b>	<b>\$169,630 + \$124,727 + \$0</b>	<b>\$294,357</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

Status : Original

County Name : **MARSHALL** Segment Nbr : 045-607-011

Original		Current
Unassigned/Unknown	Municipality	Unassigned/Unknown
3.8	Segment Length	3.8
BIT CONC OR ASPH	Existing Surface Type	BIT CONC OR ASPH
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
TH 59 TO WEST LIMITS OF HOLT	Termini	TH 59 TO WEST LIMITS OF HOLT
180	Present AADT	180
2018	Year of Count	2018
1.1	Projection Factor	1.1
198	Projected Traffic	198
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
1991	Latest Year SA funds	1991
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**RailRoadCrossing Information**

Status: Original

Original		Current
CANADIAN PACIFIC RAILWAY	RailRoad Name	CANADIAN PACIFIC RAILWAY
695929H	USDOT Number	695929H
1.7	Located at Milepoint	1.7
10	Mainline Tracks	10
SIGNS ONLY	Protection Type	SIGNS ONLY
	Last Year Protection Upgraded	
33	Crossing Length	33
	Last Year Surfaced	
100%	Percentage of Cost	100%
	Comments	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	3.8 * 435413.5 / 60 * 25 * 1.1	\$758,345
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	3.8 * 2112 * 43.04 / 20 * 25	\$431,777
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	3.8 * 9433.84 / 60 * 25	\$14,937
RR Crossing Protection	UnitCost / RRCrossingLifeCycle * StatutoryNeedsYear	2000 / 25 * 25	\$2,000
RR Crossing Surface	SurfaceLength * UnitCost / RRCrossingLifeCycle * StatutoryNeedsYear	33 * 1750 / 25 * 25	\$57,750
Total Segment Cost	Signal Leg + Construction + Preservation + ROW + RR Crossing Protection + RR Crossing Surface	\$0 + \$758,345 + \$431,777 + \$14,937 + \$2,000 + \$57,750	\$1,264,809

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

Status : Original

County Name : **MARSHALL** Segment Nbr : **045-607-020**

Original		Current
HOLT	Municipality	HOLT
0.55	Segment Length	0.55
BIT CONC OR ASPH	Existing Surface Type	BIT CONC OR ASPH
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
WEST LIMITS OF HOLT TO TH 32	Termini	WEST LIMITS OF HOLT TO TH 32
180	Present AADT	180
2018	Year of Count	2018
1.1	Projection Factor	1.1
198	Projected Traffic	198
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
1991	Latest Year SA funds	1991
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**RailRoadCrossing Information**

Status: Original

Original		Current
BURLINGTON NORTHERN SANTA FE RAILWAY	RailRoad Name	BURLINGTON NORTHERN SANTA FE RAILWAY
062296W	USDOT Number	062296W
0.5	Located at Milepoint	0.5
1	Mainline Tracks	1
SIGNS ONLY	Protection Type	SIGNS ONLY
	Last Year Protection Upgraded	
30	Crossing Length	30
	Last Year Surfaced	
100%	Percentage of Cost	100%
	Comments	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	0.55 * 435413.5 / 60 * 25 * 1.1	\$109,760
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	0.55 * 2112 * 43.04 / 20 * 25	\$62,494
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	0.55 * 9433.84 / 60 * 25	\$2,162
RR Crossing Protection	UnitCost / RRCrossingLifeCycle * StatutoryNeedsYear	2000 / 25 * 25	\$2,000
RR Crossing Surface	SurfaceLength * UnitCost / RRCrossingLifeCycle * StatutoryNeedsYear	30 * 1750 / 25 * 25	\$52,500
Total Segment Cost	Signal Leg + Construction + Preservation + ROW + RR Crossing Protection + RR Crossing Surface	\$0 + \$109,760 + \$62,494 + \$2,162 + \$2,000 + \$52,500	\$228,916



**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name :**

**MARSHALL**

**Segment Nbr : 045-607-030**

**Original**

**Current**

HOLT	Municipality	HOLT
0.45	Segment Length	0.45
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
TH 32 TO E LIM HOLT	Termini	TH 32 TO E LIM HOLT
75	Present AADT	75
2018	Year of Count	2018
1.1	Projection Factor	1.1
83	Projected Traffic	83
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
1990	Latest Year SA funds	1990
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	0.45 * 435413.5 / 60 * 25 * 1.1	\$89,804
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	0.45 * 2112 * 43.04 / 20 * 25	\$51,132
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	0.45 * 9433.84 / 60 * 25	\$1,769
<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW</b>	<b>\$0 + \$89,804 + \$51,132 + \$1,769</b>	<b>\$142,705</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name :**

**MARSHALL**

**Segment Nbr : 045-607-040**

**Original**

**Current**

Unassigned/Unknown	Municipality	Unassigned/Unknown
3.5	Segment Length	3.5
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
E LIM HOLT TO CSAH 12	Termini	E LIM HOLT TO CSAH 12
75	Present AADT	75
2018	Year of Count	2018
1.1	Projection Factor	1.1
83	Projected Traffic	83
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
1990	Latest Year SA funds	1990
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	3.5 * 435413.5 / 60 * 25 * 1.1	\$698,476
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	3.5 * 2112 * 43.04 / 20 * 25	\$397,690
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	3.5 * 9433.84 / 60 * 25	\$13,758
<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW</b>	<b>\$0 + \$698,476 + \$397,690 + \$13,758</b>	<b>\$1,109,924</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name :**

**MARSHALL**

**Segment Nbr : 045-607-050**

**Original**

**Current**

Unassigned/Unknown	Municipality	Unassigned/Unknown
1.7	Segment Length	1.7
AGGREGATE SURF	Existing Surface Type	AGGREGATE SURF
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
CSAH 12 TO THIEF RIVER	Termini	CSAH 12 TO THIEF RIVER
55	Present AADT	55
2018	Year of Count	2018
1.1	Projection Factor	1.1
61	Projected Traffic	61
RURAL	Design Type	RURAL
1 - RURAL : 0 - 149	Design Group	1 ( RURAL : 0 - 149 )
2014	Latest Year SA funds	2014
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
2014 SP 045-607-010 G&B, SHOWS NO FUTURE PAVING	Comments	2014 SP 045-607-010 G&B, SHOWS NO FUTURE PAVING
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	1.7 * 217706.75 / 60 * 25 * 1.1	\$169,630
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	1.7 * 546 * 10.75 / 2 * 25	\$124,727
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	1.7 * 0 / 60 * 25	\$0
Total Segment Cost	Construction + Preservation + ROW	\$169,630 + \$124,727 + \$0	\$294,357

**SANEEDS - CSAH - Segment Report**

<b>Roadway Segment Information</b>		<b>Status : Original</b>
<b>County Name :</b>	<b>MARSHALL</b>	<b>Segment Nbr : 045-607-060</b>
<b>Original</b>	<b>Current</b>	
Unassigned/Unknown	Municipality	Unassigned/Unknown
13.1	Segment Length	13.1
AGGREGATE SURF	Existing Surface Type	AGGREGATE SURF
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
THIEF RIVER TO TH 219	Termini	THIEF RIVER TO TH 219
50	Present AADT	50
2018	Year of Count	2018
1.1	Projection Factor	1.1
55	Projected Traffic	55
RURAL	Design Type	RURAL
1 - RURAL : 0 - 149	Design Group	1 ( RURAL : 0 - 149 )
2012	Latest Year SA funds	2012
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
2012 SAP 045-607-009 BR#45574	Comments	2012 SAP 045-607-009 BR#45574
REPLACE 4601		REPLACE 4601
	Interchange Override	
	Segment Override	

<b>Bridge Information</b>		<b>Status: Original</b>
<b>Original</b>	<b>Current</b>	
45574	Structure Number	45574
11.78	Milepoint	11.78
2012	Year Built	2012
THIEF RIVER	Feature Crossed	THIEF RIVER
	Type of Service	
3	Number of Spans	3
86	Bridge Length	86
35.3	Bridge Width	35.3
100%	Shared Structure	100%
2012 SAP 045-607-009 BR#45574	Comments	2012 SAP 045-607-009 BR#45574
REPLACE 4601		REPLACE 4601
1 ( 0-149 )	Bridge Group Code	1 ( 0-149 )

<b>Bridge Information</b>		<b>Status: Original</b>
<b>Original</b>	<b>Current</b>	
7446	Structure Number	7446
15.7	Milepoint	15.7
1938	Year Built	1938
JUD DITCH # 11	Feature Crossed	JUD DITCH # 11
	Type of Service	
	Number of Spans	
22.6	Bridge Length	22.6
23.3	Bridge Width	23.3
100%	Shared Structure	100%
	Comments	
1 ( 0-149 )	Bridge Group Code	1 ( 0-149 )

<b>Culvert Information</b>		<b>Status: Original</b>
<b>Original</b>	<b>Current</b>	
45J02	Structure Number	45J02
20.055	Milepoint	20.055
2009	Year Built	2009
JUD DITCH # 11	Feature Crossed	JUD DITCH # 11

	Type of Service	
1	Number of Barrels	1
10	Culvert Width	10
6	Culvert Height	6
72	Culvert Length	72
60.00013138	Area of Waterway Opening	60.00013138
100%	Shared Structure	100%
	Comments	
1	Culvert Group Code	1

### Segment Cost Information

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Construction	$\text{Length} * \text{UnitCost} / \text{ConstrLifeCycle} * \text{StatutoryNeedsYear} * \text{DevelopmentCost}$	$13.1 * 217706.75 / 60 * 25 * 1.1$	\$1,307,148
Preservation	$\text{Length} * \text{Quantity} * \text{UnitCost} / \text{PreservationLifeCycle} * \text{StatutoryNeedsYear}$	$13.1 * 546 * 10.75 / 2 * 25$	\$961,131
ROW	$\text{Length} * \text{UnitCost} / \text{ROWLifeCycle} * \text{StatutoryNeedsYear}$	$13.1 * 0 / 60 * 25$	\$0
Bridge	$\text{BridgeLength} * \text{BridgeWidth} * \text{UnitCost} / \text{BridgeLifeCycle} * \text{StatutoryNeedsYear} * \text{DevelopmentCost}$	$86 * 35.3 * 173 / 80 * 25 * 1.15$	\$188,741
Bridge	$\text{BridgeLength} * \text{BridgeWidth} * \text{UnitCost} / \text{BridgeLifeCycle} * \text{StatutoryNeedsYear} * \text{DevelopmentCost}$	$22.6 * 23.3 * 173 / 80 * 25 * 1.15$	\$32,738
Culvert	$\text{CulvertLength} * \text{Area} * \text{UnitCost} / \text{CulvertLifeCycle} * \text{StatutoryNeedsYear} * \text{DevelopmentCost}$	$72 * 60.00013138 * 18.01 / 100 * 25 * 1.15$	\$22,368
Total Segment Cost	$\text{Construction} + \text{Preservation} + \text{ROW} + \text{Bridge} + \text{Bridge} + \text{Culvert}$	$\$1,307,148 + \$961,131 + \$0 + \$188,741 + \$32,738 + \$22,368$	\$2,512,126

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name :**

**MARSHALL**

**Segment Nbr : 045-608-010**

**Original**

**Current**

Unassigned/Unknown	Municipality	Unassigned/Unknown
9.6	Segment Length	9.6
AGGREGATE SURF	Existing Surface Type	AGGREGATE SURF
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
CSAH 2 TO 0.1 MI. SOUTH OF THE SOUTH LIMITS OF NEWFOLDEN	Termini	CSAH 2 TO 0.1 MI. SOUTH OF THE SOUTH LIMITS OF NEWFOLDEN
130	Present AADT	130
2018	Year of Count	2018
1.1	Projection Factor	1.1
143	Projected Traffic	143
RURAL	Design Type	RURAL
1 - RURAL : 0 - 149	Design Group	1 ( RURAL : 0 - 149 )
1999	Latest Year SA funds	1999
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Construction	$\text{Length} * \text{UnitCost} / \text{ConstrLifeCycle} * \text{StatutoryNeedsYear} * \text{DevelopmentCost}$	$9.6 * 217706.75 / 60 * 25 * 1.1$	\$957,910
Preservation	$\text{Length} * \text{Quantity} * \text{UnitCost} / \text{PreservationLifeCycle} * \text{StatutoryNeedsYear}$	$9.6 * 546 * 10.75 / 2 * 25$	\$704,340
ROW	$\text{Length} * \text{UnitCost} / \text{ROWLifeCycle} * \text{StatutoryNeedsYear}$	$9.6 * 0 / 60 * 25$	\$0
Total Segment Cost	Construction + Preservation + ROW	$\$957,910 + \$704,340 + \$0$	\$1,662,250

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

Status : Original

County Name : **MARSHALL** Segment Nbr : 045-608-021

Original		Current
Unassigned/Unknown	Municipality	Unassigned/Unknown
0.1	Segment Length	0.1
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
0.1 MI SO OF SO LIM NEWFOLDEN TO SO LIM NEWFOLDEN	Termini	0.1 MI SO OF SO LIM NEWFOLDEN TO SO LIM NEWFOLDEN
130	Present AADT	130
2018	Year of Count	2018
1.1	Projection Factor	1.1
143	Projected Traffic	143
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
1983	Latest Year SA funds	1983
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
REINSTATE FULL NEEDS	Comments	REINSTATE FULL NEEDS
	Interchange Override	
	Segment Override	

**Culvert Information**

Status: Original

Original		Current
95679	Structure Number	95679
9.61	Milepoint	9.61
1983	Year Built	1983
CO DITCH # 15	Feature Crossed	CO DITCH # 15
	Type of Service	
2	Number of Barrels	2
10	Culvert Width	10
6	Culvert Height	6
64	Culvert Length	64
89.00023076	Area of Waterway Opening	89.00023076
100%	Shared Structure	100%
	Comments	
1	Culvert Group Code	1

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	0.1 * 435413.5 / 60 * 25 * 1.1	\$19,956
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	0.1 * 2112 * 43.04 / 20 * 25	\$11,363
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	0.1 * 9433.84 / 60 * 25	\$393
Culvert	CulvertLength * Area * UnitCost / CulvertLifeCycle * StatutoryNeedsYear * DevelopmentCost	64 * 89.00023076 * 18.01 / 100 * 25 * 1.15	\$29,493

<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW + Culvert</b>	<b>\$0 + \$19,956 + \$11,363 + \$393 + \$29,493</b>	<b>\$61,205</b>
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**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

Status : Original

County Name : **MARSHALL** Segment Nbr : **045-608-030**

Original		Current
NEWFOLDEN	Municipality	NEWFOLDEN
0.66	Segment Length	0.66
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
SO LIM NEWFOLDEN TO MINN AVE	Termini	SO LIM NEWFOLDEN TO MINN AVE
355	Present AADT	355
2018	Year of Count	2018
1.1	Projection Factor	1.1
391	Projected Traffic	391
URBAN	Design Type	URBAN
5 - URBAN : 0 - 9999	Design Group	5 ( URBAN : 0 - 9999 )
2012	Latest Year SA funds	2012
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
2012 SP 045-608-007 SIDEWALK, C&G, LIGHTING	Comments	2012 SP 045-608-007 SIDEWALK, C&G, LIGHTING
REINSTATE FULL NEEDS		REINSTATE FULL NEEDS
2010 OVERLAY, SAP 45-608-008		2010 OVERLAY, SAP 45-608-008
	Interchange Override	
	Segment Override	

**Culvert Information**

Status: Original

Original		Current
95678	Structure Number	95678
9.89	Milepoint	9.89
1983	Year Built	1983
MIDDLE RIVER	Feature Crossed	MIDDLE RIVER
	Type of Service	
3	Number of Barrels	3
12	Culvert Width	12
10	Culvert Height	10
64	Culvert Length	64
359.99971189	Area of Waterway Opening	359.99971189
100%	Shared Structure	100%
	Comments	
1	Culvert Group Code	1

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	0.66 * 2789799.78 / 60 * 25 * 1.15	\$882,274
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	0.66 * 2904 * 43.04 / 15 * 25	\$137,487
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	0.66 * 94238.2 / 60 * 25	\$25,916

Culvert	CulvertLength * Area * UnitCost / CulvertLifeCycle * StatutoryNeedsYear * DevelopmentCost	64 * 359.99971189 * 18.01 / 100 * 25 * 1.15	\$119,298
Total Segment Cost	Signal Leg + Construction + Preservation + ROW + Culvert	\$0 + \$882,274 + \$137,487 + \$25,916 + \$119,298	\$1,164,975

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name :**

**MARSHALL**

**Segment Nbr : 045-608-050**

**Original**

**Current**

NEWFOLDEN	Municipality	NEWFOLDEN
0.5	Segment Length	0.5
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
MINN AV TO N LIM NEWFOLDEN	Termini	MINN AV TO N LIM NEWFOLDEN
390	Present AADT	390
2018	Year of Count	2018
1.1	Projection Factor	1.1
429	Projected Traffic	429
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
1986	Latest Year SA funds	1986
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	0.5 * 435413.5 / 60 * 25 * 1.1	\$99,782
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	0.5 * 2112 * 43.04 / 20 * 25	\$56,813
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	0.5 * 9433.84 / 60 * 25	\$1,965
<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW</b>	<b>\$0 + \$99,782 + \$56,813 + \$1,965</b>	<b>\$158,560</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name :**

**MARSHALL**

**Segment Nbr : 045-608-060**

**Original**

**Current**

Unassigned/Unknown	Municipality	Unassigned/Unknown
5.5	Segment Length	5.5
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
N LIM NEWFOLDEN TO CSAH 6	Termini	N LIM NEWFOLDEN TO CSAH 6
390	Present AADT	390
2018	Year of Count	2018
1.1	Projection Factor	1.1
429	Projected Traffic	429
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
2017	Latest Year SA funds	2017
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
2017 SAP 045-608-009 OVERLAY	Comments	2017 SAP 045-608-009 OVERLAY
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	5.5 * 435413.5 / 60 * 25 * 1.1	\$1,097,605
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	5.5 * 2112 * 43.04 / 20 * 25	\$624,941
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	5.5 * 9433.84 / 60 * 25	\$21,619
<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW</b>	<b>\$0 + \$1,097,605 + \$624,941 + \$21,619</b>	<b>\$1,744,165</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

Status : Original

County Name : **MARSHALL** Segment Nbr : 045-609-010

Original		Current
Unassigned/Unknown	Municipality	Unassigned/Unknown
1.5	Segment Length	1.5
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
SO CO LINE TO TH 1	Termini	SO CO LINE TO TH 1
220	Present AADT	220
2018	Year of Count	2018
1.1	Projection Factor	1.1
242	Projected Traffic	242
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
2012	Latest Year SA funds	2012
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
2012 SP 045-609-005 M&OL	Comments	2012 SP 045-609-005 M&OL
	Interchange Override	
	Segment Override	

**RailRoadCrossing Information**

Status: Original

Original		Current
CANADIAN PACIFIC RAILWAY	RailRoad Name	CANADIAN PACIFIC RAILWAY
696242T	USDOT Number	696242T
1.36	Located at Milepoint	1.36
1	Mainline Tracks	1
SIGNS ONLY	Protection Type	SIGNS ONLY
	Last Year Protection Upgraded	
36	Crossing Length	36
	Last Year Surfaced	
100%	Percentage of Cost	100%
	Comments	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	1.5 * 435413.5 / 60 * 25 * 1.1	\$299,347
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	1.5 * 2112 * 43.04 / 20 * 25	\$170,438
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	1.5 * 9433.84 / 60 * 25	\$5,896
RR Crossing Protection	UnitCost / RRCrossingLifeCycle * StatutoryNeedsYear	2000 / 25 * 25	\$2,000
RR Crossing Surface	SurfaceLength * UnitCost / RRCrossingLifeCycle * StatutoryNeedsYear	36 * 1750 / 25 * 25	\$63,000
Total Segment Cost	Signal Leg + Construction + Preservation + ROW + RR Crossing Protection + RR Crossing Surface	\$0 + \$299,347 + \$170,438 + \$5,896 + \$2,000 + \$63,000	\$540,681

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

Status : Original

County Name : **MARSHALL** Segment Nbr : 045-610-010

Original		Current
ALVARADO	Municipality	ALVARADO
0.04	Segment Length	0.04
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
TH 1 TO NO LIM ALVARADO	Termini	TH 1 TO NO LIM ALVARADO
550	Present AADT	550
2018	Year of Count	2018
1.1	Projection Factor	1.1
605	Projected Traffic	605
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
2004	Latest Year SA funds	2004
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
GRADE WIDENED IN 2002, OVERLAYED IN 2004 TO 10 TON CAPACITY. SAP 45-610-010	Comments	GRADE WIDENED IN 2002, OVERLAYED IN 2004 TO 10 TON CAPACITY. SAP 45-610-010
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	0.04 * 435413.5 / 60 * 25 * 1.1	\$7,983
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	0.04 * 2112 * 43.04 / 20 * 25	\$4,545
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	0.04 * 9433.84 / 60 * 25	\$157
Total Segment Cost	Signal Leg + Construction + Preservation + ROW	\$0 + \$7,983 + \$4,545 + \$157	\$12,685

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

Status : Original

County Name : **MARSHALL** Segment Nbr : **045-610-020**

Original		Current
Unassigned/Unknown	Municipality	Unassigned/Unknown
10	Segment Length	10
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
N LIM ALVARADO TO CSAH 4	Termini	N LIM ALVARADO TO CSAH 4
550	Present AADT	550
2018	Year of Count	2018
1.1	Projection Factor	1.1
605	Projected Traffic	605
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
2004	Latest Year SA funds	2004
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
GRADE WIDENED IN 2002, OVERLAYED IN 2004 TO 10 TON CAPACITY. SAP 45-610-010	Comments	GRADE WIDENED IN 2002, OVERLAYED IN 2004 TO 10 TON CAPACITY. SAP 45-610-010
	Interchange Override	
	Segment Override	

**Culvert Information**

Status: Original

Original		Current
45J27	Structure Number	45J27
0.98	Milepoint	0.98
2002	Year Built	2002
Jud Ditch # 16	Feature Crossed	Jud Ditch # 16
STREAM CROSSING	Type of Service	STREAM CROSSING
1	Number of Barrels	1
10	Culvert Width	10
7	Culvert Height	7
72	Culvert Length	72
820.00036034	Area of Waterway Opening	820.00036034
100%	Shared Structure	100%
	Comments	
1	Culvert Group Code	1

**Culvert Information**

Status: Original

Original		Current
45J28	Structure Number	45J28
2.99	Milepoint	2.99
2002	Year Built	2002
Jud Ditch # 20	Feature Crossed	Jud Ditch # 20
STREAM CROSSING	Type of Service	STREAM CROSSING
1	Number of Barrels	1
10	Culvert Width	10
7	Culvert Height	7
70	Culvert Length	70
51.00043459	Area of Waterway Opening	51.00043459
100%	Shared Structure	100%
	Comments	
1	Culvert Group Code	1

**Culvert Information**

Status: Original

Original		Current
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45J29	Structure Number	45J29
4	Milepoint	4
2002	Year Built	2002
Jud Ditch # 20	Feature Crossed	Jud Ditch # 20
STREAM CROSSING	Type of Service	STREAM CROSSING
1	Number of Barrels	1
10	Culvert Width	10
7	Culvert Height	7
76	Culvert Length	76
51.00043459	Area of Waterway Opening	51.00043459
100%	Shared Structure	100%
	Comments	
1	Culvert Group Code	1

**Culvert Information**

Status: Original

**Original**

**Current**

45J30	Structure Number	45J30
5	Milepoint	5
2002	Year Built	2002
Jud Ditch # 20	Feature Crossed	Jud Ditch # 20
STREAM CROSSING	Type of Service	STREAM CROSSING
1	Number of Barrels	1
10	Culvert Width	10
7	Culvert Height	7
70	Culvert Length	70
51.00043459	Area of Waterway Opening	51.00043459
100%	Shared Structure	100%
	Comments	
1	Culvert Group Code	1

**Culvert Information**

Status: Original

**Original**

**Current**

90142	Structure Number	90142
6	Milepoint	6
1974	Year Built	1974
CO DITCH # 3	Feature Crossed	CO DITCH # 3
	Type of Service	
2	Number of Barrels	2
14	Culvert Width	14
8	Culvert Height	8
62	Culvert Length	62
163.99985679	Area of Waterway Opening	163.99985679
100%	Shared Structure	100%
	Comments	
1	Culvert Group Code	1

**Culvert Information**

Status: Original

**Original**

**Current**

92753	Structure Number	92753
1.98	Milepoint	1.98
1974	Year Built	1974
CO DITCH # 21	Feature Crossed	CO DITCH # 21
	Type of Service	
2	Number of Barrels	2
14	Culvert Width	14
8	Culvert Height	8
68	Culvert Length	68
163.99985679	Area of Waterway Opening	163.99985679
100%	Shared Structure	100%
	Comments	
1	Culvert Group Code	1



**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	10 * 435413.5 / 60 * 25 * 1.1	\$1,995,645
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	10 * 2112 * 43.04 / 20 * 25	\$1,136,256
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	10 * 9433.84 / 60 * 25	\$39,308
Culvert	CulvertLength * Area * UnitCost / CulvertLifeCycle * StatutoryNeedsYear * DevelopmentCost	72 * 820.00036034 * 18.01 / 100 * 25 * 1.15	\$305,702
Culvert	CulvertLength * Area * UnitCost / CulvertLifeCycle * StatutoryNeedsYear * DevelopmentCost	70 * 51.00043459 * 18.01 / 100 * 25 * 1.15	\$18,485
Culvert	CulvertLength * Area * UnitCost / CulvertLifeCycle * StatutoryNeedsYear * DevelopmentCost	76 * 51.00043459 * 18.01 / 100 * 25 * 1.15	\$20,070
Culvert	CulvertLength * Area * UnitCost / CulvertLifeCycle * StatutoryNeedsYear * DevelopmentCost	70 * 51.00043459 * 18.01 / 100 * 25 * 1.15	\$18,485
Culvert	CulvertLength * Area * UnitCost / CulvertLifeCycle * StatutoryNeedsYear * DevelopmentCost	62 * 163.99985679 * 18.01 / 100 * 25 * 1.15	\$52,649
Culvert	CulvertLength * Area * UnitCost / CulvertLifeCycle * StatutoryNeedsYear * DevelopmentCost	68 * 163.99985679 * 18.01 / 100 * 25 * 1.15	\$57,744
<b>Total Segment Cost</b>	Signal Leg + Construction + Preservation + ROW + Culvert + Culvert + Culvert + Culvert	\$0 + \$1,995,645 + \$1,136,256 + \$39,308 + \$305,702 + \$18,485 + \$20,070 + \$18,485 + \$52,649 + \$57,744	\$3,644,344

**SANEEDS - CSAH - Segment Report**

Roadway Segment Information		Status : Original
County Name :		MARSHALL
		Segment Nbr : 045-610-030
Original	Current	
Unassigned/Unknown	Municipality	Unassigned/Unknown
8.1	Segment Length	8.1
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
CSAH 4 TO CSAH 5	Termini	CSAH 4 TO CSAH 5
255	Present AADT	255
2018	Year of Count	2018
1.1	Projection Factor	1.1
281	Projected Traffic	281
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
2010	Latest Year SA funds	2010
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
SHOULDERS GRADED IN 2009 SP045-610-012	Comments	SHOULDERS GRADED IN 2009 SP045-610-012
2010 OVERLAY, SAP 45-610-013		2010 OVERLAY, SAP 45-610-013
	Interchange Override	
	Segment Override	

Bridge Information		Status: Original
Original	Current	
45512	Structure Number	45512
12.08	Milepoint	12.08
1967	Year Built	1967
MIDDLE RIVER	Feature Crossed	MIDDLE RIVER
	Type of Service	
	Number of Spans	
71.2	Bridge Length	71.2
29	Bridge Width	29
100%	Shared Structure	100%
	Comments	
1 ( 0-149 )	Bridge Group Code	1 ( 0-149 )

Culvert Information		Status: Original
Original	Current	
45J31	Structure Number	45J31
13.13	Milepoint	13.13
2005	Year Built	2005
JUD DITCH # 29(LAT 2)	Feature Crossed	JUD DITCH # 29(LAT 2)
STREAM CROSSING	Type of Service	STREAM CROSSING
1	Number of Barrels	1
10	Culvert Width	10
5	Culvert Height	5
68	Culvert Length	68
50.00046828	Area of Waterway Opening	50.00046828
100%	Shared Structure	100%
	Comments	
1	Culvert Group Code	1

Culvert Information		Status: Original
Original	Current	
45J32	Structure Number	45J32
14.12	Milepoint	14.12

2005	Year Built	2005
JUD DITCH # 29(LAT 1)	Feature Crossed	JUD DITCH # 29(LAT 1)
STREAM CROSSING	Type of Service	STREAM CROSSING
1	Number of Barrels	1
10	Culvert Width	10
5	Culvert Height	5
66	Culvert Length	66
50.00046828	Area of Waterway Opening	50.00046828
100%	Shared Structure	100%
	Comments	
1	Culvert Group Code	1

**Culvert Information**

Status: Original

Original		Current
45J33	Structure Number	45J33
15.13	Milepoint	15.13
2005	Year Built	2005
JUD DITCH # 29	Feature Crossed	JUD DITCH # 29
STREAM CROSSING	Type of Service	STREAM CROSSING
1	Number of Barrels	1
10	Culvert Width	10
6	Culvert Height	6
68	Culvert Length	68
60.00013138	Area of Waterway Opening	60.00013138
100%	Shared Structure	100%
	Comments	
1	Culvert Group Code	1

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	8.1 * 435413.5 / 60 * 25 * 1.1	\$1,616,473
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	8.1 * 2112 * 43.04 / 20 * 25	\$920,367
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	8.1 * 9433.84 / 60 * 25	\$31,839
Bridge	BridgeLength * BridgeWidth * UnitCost / BridgeLifeCycle * StatutoryNeedsYear * DevelopmentCost	71.2 * 29 * 173 / 80 * 25 * 1.15	\$128,372
Culvert	CulvertLength * Area * UnitCost / CulvertLifeCycle * StatutoryNeedsYear * DevelopmentCost	68 * 50.00046828 * 18.01 / 100 * 25 * 1.15	\$17,605
Culvert	CulvertLength * Area * UnitCost / CulvertLifeCycle * StatutoryNeedsYear * DevelopmentCost	66 * 50.00046828 * 18.01 / 100 * 25 * 1.15	\$17,087
Culvert	CulvertLength * Area * UnitCost / CulvertLifeCycle * StatutoryNeedsYear * DevelopmentCost	68 * 60.00013138 * 18.01 / 100 * 25 * 1.15	\$21,126
Total Segment Cost	Signal Leg + Construction + Preservation + ROW + Bridge + Culvert + Culvert + Culvert	\$0 + \$1,616,473 + \$920,367 + \$31,839 + \$128,372 + \$17,605 + \$17,087 + \$21,126	\$2,752,869

SANEEDS - CSAH - Segment Report

Roadway Segment Information

Status : Original

County Name : MARSHALL Segment Nbr : 045-611-020

Original		Current
VIKING	Municipality	VIKING
0.48	Segment Length	0.48
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
S LIM VIKING TO 0.48 MI N	Termini	S LIM VIKING TO 0.48 MI N
295	Present AADT	295
2018	Year of Count	2018
1.1	Projection Factor	1.1
325	Projected Traffic	325
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
1986	Latest Year SA funds	1986
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

RailRoadCrossing Information

Status: Original

Original		Current
CANADIAN PACIFIC RAILWAY	RailRoad Name	CANADIAN PACIFIC RAILWAY
696169X	USDOT Number	696169X
0.4	Located at Milepoint	0.4
1	Mainline Tracks	1
SIGNS ONLY	Protection Type	SIGNS ONLY
	Last Year Protection Upgraded	
32	Crossing Length	32
	Last Year Surfaced	
100%	Percentage of Cost	100%
	Comments	

Segment Cost Information

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	0.48 * 435413.5 / 60 * 25 * 1.1	\$95,791
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	0.48 * 2112 * 43.04 / 20 * 25	\$54,540
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	0.48 * 9433.84 / 60 * 25	\$1,887
RR Crossing Protection	UnitCost / RRCrossingLifeCycle * StatutoryNeedsYear	2000 / 25 * 25	\$2,000
RR Crossing Surface	SurfaceLength * UnitCost / RRCrossingLifeCycle * StatutoryNeedsYear	32 * 1750 / 25 * 25	\$56,000
Total Segment Cost	Signal Leg + Construction + Preservation + ROW + RR Crossing Protection + RR Crossing Surface	\$0 + \$95,791 + \$54,540 + \$1,887 + \$2,000 + \$56,000	\$210,218

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name : MARSHALL Segment Nbr : 045-611-030**

Original		Current
VIKING	Municipality	VIKING
0.14	Segment Length	0.14
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
0.48 MI N OF S LIM VIKING TO SECOND AV	Termini	0.48 MI N OF S LIM VIKING TO SECOND AV
295	Present AADT	295
2018	Year of Count	2018
1.1	Projection Factor	1.1
325	Projected Traffic	325
URBAN	Design Type	URBAN
5 - URBAN : 0 - 9999	Design Group	5 ( URBAN : 0 - 9999 )
1986	Latest Year SA funds	1986
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	0.14 * 2789799.78 / 60 * 25 * 1.15	\$187,149
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	0.14 * 2904 * 43.04 / 15 * 25	\$29,164
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	0.14 * 94238.2 / 60 * 25	\$5,497
<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW</b>	<b>\$0 + \$187,149 + \$29,164 + \$5,497</b>	<b>\$221,810</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name :**

**MARSHALL**

**Segment Nbr : 045-611-040**

**Original**

**Current**

VIKING	Municipality	VIKING
0.3	Segment Length	0.3
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
SECOND AV TO 0.30 MI N	Termini	SECOND AV TO 0.30 MI N
295	Present AADT	295
2018	Year of Count	2018
1.1	Projection Factor	1.1
325	Projected Traffic	325
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
1986	Latest Year SA funds	1986
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	0.3 * 435413.5 / 60 * 25 * 1.1	\$59,869
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	0.3 * 2112 * 43.04 / 20 * 25	\$34,088
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	0.3 * 9433.84 / 60 * 25	\$1,179
<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW</b>	<b>\$0 + \$59,869 + \$34,088 + \$1,179</b>	<b>\$95,136</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name :**

**MARSHALL**

**Segment Nbr : 045-611-050**

**Original**

**Current**

VIKING	Municipality	VIKING
0.14	Segment Length	0.14
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
0.30 MI N SECOND AV TO N LIM VIKING	Termini	0.30 MI N SECOND AV TO N LIM VIKING
295	Present AADT	295
2018	Year of Count	2018
1.1	Projection Factor	1.1
325	Projected Traffic	325
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
1986	Latest Year SA funds	1986
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	0.14 * 435413.5 / 60 * 25 * 1.1	\$27,939
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	0.14 * 2112 * 43.04 / 20 * 25	\$15,908
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	0.14 * 9433.84 / 60 * 25	\$550
<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW</b>	<b>\$0 + \$27,939 + \$15,908 + \$550</b>	<b>\$44,397</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name :**

**MARSHALL**

**Segment Nbr : 045-611-060**

**Original**

**Current**

Unassigned/Unknown	Municipality	Unassigned/Unknown
9.1	Segment Length	9.1
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
N LIM VIKING TO CSAH 28	Termini	N LIM VIKING TO CSAH 28
210	Present AADT	210
2018	Year of Count	2018
1.1	Projection Factor	1.1
231	Projected Traffic	231
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
1986	Latest Year SA funds	1986
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	9.1 * 435413.5 / 60 * 25 * 1.1	\$1,816,037
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	9.1 * 2112 * 43.04 / 20 * 25	\$1,033,993
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	9.1 * 9433.84 / 60 * 25	\$35,770
<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW</b>	<b>\$0 + \$1,816,037 + \$1,033,993 + \$35,770</b>	<b>\$2,885,800</b>



SANEEDS - CSAH - Segment Report

Roadway Segment Information

Status : Original

County Name : MARSHALL Segment Nbr : 045-612-020

Original	Current
Unassigned/Unknown	Unassigned/Unknown
5.4	5.4
MIXED BITUMINOUS	MIXED BITUMINOUS
2	2
NOT DIVIDED	NOT DIVIDED
S CO LINE TO 0.10 MI N OF CO H 120	S CO LINE TO 0.10 MI N OF CO H 120
295	295
2018	2018
1.1	1.1
325	325
RURAL	RURAL
2 - RURAL : 150 - 1499	2 ( RURAL : 150 - 1499 )
2018	2018
0	0
No Special Message	No Special Message
2018 SAP 045-612-016 M&OL	2018 SAP 045-612-016 M&OL
	Interchange Override
	Segment Override

Bridge Information

Status: Original

Original	Current
45548	45548
3.66	3.66
1998	1998
CO DITCH # 20	CO DITCH # 20
	Type of Service
	Number of Spans
104	104
39.3	39.3
100%	100%
	Comments
1 ( 0-149 )	1 ( 0-149 )
	Bridge Group Code

Segment Cost Information

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	5.4 * 435413.5 / 60 * 25 * 1.1	\$1,077,648
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	5.4 * 2112 * 43.04 / 20 * 25	\$613,578
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	5.4 * 9433.84 / 60 * 25	\$21,226
Bridge	BridgeLength * BridgeWidth * UnitCost / BridgeLifeCycle * StatutoryNeedsYear * DevelopmentCost	104 * 39.3 * 173 / 80 * 25 * 1.15	\$254,109
Total Segment Cost	Signal Leg + Construction + Preservation + ROW + Bridge	\$0 + \$1,077,648 + \$613,578 + \$21,226 + \$254,109	\$1,966,561

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

Status : Original

County Name : **MARSHALL** Segment Nbr : **045-612-021**

Original		Current
Unassigned/Unknown	Municipality	Unassigned/Unknown
0.4	Segment Length	0.4
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
0.10 MI N OF CO H 120 TO 0.50 MI N OF CO H 120	Termini	0.10 MI N OF CO H 120 TO 0.50 MI N OF CO H 120
220	Present AADT	220
2018	Year of Count	2018
1.1	Projection Factor	1.1
242	Projected Traffic	242
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
2018	Latest Year SA funds	2018
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
2018 SAP 045-612-016 M&OL	Comments	2018 SAP 045-612-016 M&OL
	Interchange Override	
	Segment Override	

**Bridge Information**

Status: Original

Original		Current
45544	Structure Number	45544
5.79	Milepoint	5.79
1989	Year Built	1989
THIEF RIVER	Feature Crossed	THIEF RIVER
	Type of Service	
	Number of Spans	
130.6	Bridge Length	130.6
35	Bridge Width	35
100%	Shared Structure	100%
	Comments	
1 ( 0-149 )	Bridge Group Code	1 ( 0-149 )

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	0.4 * 435413.5 / 60 * 25 * 1.1	\$79,826
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	0.4 * 2112 * 43.04 / 20 * 25	\$45,450
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	0.4 * 9433.84 / 60 * 25	\$1,572
Bridge	BridgeLength * BridgeWidth * UnitCost / BridgeLifeCycle * StatutoryNeedsYear * DevelopmentCost	130.6 * 35 * 173 / 80 * 25 * 1.15	\$284,188
Total Segment Cost	Signal Leg + Construction + Preservation + ROW + Bridge	\$0 + \$79,826 + \$45,450 + \$1,572 + \$284,188	\$411,036

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name :**

**MARSHALL**

**Segment Nbr : 045-612-022**

**Original**

**Current**

Unassigned/Unknown	Municipality	Unassigned/Unknown
2.9	Segment Length	2.9
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
0.50 MI N OF CO H 120 TO CSAH 7	Termini	0.50 MI N OF CO H 120 TO CSAH 7
220	Present AADT	220
2018	Year of Count	2018
1.1	Projection Factor	1.1
242	Projected Traffic	242
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
2018	Latest Year SA funds	2018
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
2018 SAP 045-612-016 M&OL	Comments	2018 SAP 045-612-016 M&OL
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	2.9 * 435413.5 / 60 * 25 * 1.1	\$578,737
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	2.9 * 2112 * 43.04 / 20 * 25	\$329,514
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	2.9 * 9433.84 / 60 * 25	\$11,399
<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW</b>	<b>\$0 + \$578,737 + \$329,514 + \$11,399</b>	<b>\$919,650</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name :**

**MARSHALL**

**Segment Nbr : 045-612-030**

**Original**

**Current**

Unassigned/Unknown	Municipality	Unassigned/Unknown
5.5	Segment Length	5.5
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
CSAH NO 7 TO CSAH 46	Termini	CSAH NO 7 TO CSAH 46
85	Present AADT	85
2018	Year of Count	2018
1.1	Projection Factor	1.1
94	Projected Traffic	94
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
1994	Latest Year SA funds	1994
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	5.5 * 435413.5 / 60 * 25 * 1.1	\$1,097,605
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	5.5 * 2112 * 43.04 / 20 * 25	\$624,941
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	5.5 * 9433.84 / 60 * 25	\$21,619
<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW</b>	<b>\$0 + \$1,097,605 + \$624,941 + \$21,619</b>	<b>\$1,744,165</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name :**

**MARSHALL**

**Segment Nbr : 045-612-040**

**Original**

**Current**

Unassigned/Unknown	Municipality	Unassigned/Unknown
4.8	Segment Length	4.8
AGGREGATE SURF	Existing Surface Type	AGGREGATE SURF
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
CSAH 46 TO CSAH 6	Termini	CSAH 46 TO CSAH 6
50	Present AADT	50
2018	Year of Count	2018
1.1	Projection Factor	1.1
55	Projected Traffic	55
RURAL	Design Type	RURAL
1 - RURAL : 0 - 149	Design Group	1 ( RURAL : 0 - 149 )
1994	Latest Year SA funds	1994
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	4.8 * 217706.75 / 60 * 25 * 1.1	\$478,955
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	4.8 * 546 * 10.75 / 2 * 25	\$352,170
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	4.8 * 0 / 60 * 25	\$0
<b>Total Segment Cost</b>	<b>Construction + Preservation + ROW</b>	<b>\$478,955 + \$352,170 + \$0</b>	<b>\$831,125</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name : MARSHALL Segment Nbr : 045-613-010**

Original		Current
Unassigned/Unknown	Municipality	Unassigned/Unknown
2	Segment Length	2
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
CSAH 5 TO CSAH 24	Termini	CSAH 5 TO CSAH 24
245	Present AADT	245
2018	Year of Count	2018
1.1	Projection Factor	1.1
270	Projected Traffic	270
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
2015	Latest Year SA funds	2015
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
2015 SAP 045-613-004 M&OL	Comments	2015 SAP 045-613-004 M&OL
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	2 * 435413.5 / 60 * 25 * 1.1	\$399,129
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	2 * 2112 * 43.04 / 20 * 25	\$227,251
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	2 * 9433.84 / 60 * 25	\$7,862
<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW</b>	<b>\$0 + \$399,129 + \$227,251 + \$7,862</b>	<b>\$634,242</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name :**

**MARSHALL**

**Segment Nbr : 045-613-020**

**Original**

**Current**

Unassigned/Unknown	Municipality	Unassigned/Unknown
2	Segment Length	2
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
CSAH 24 TO N CO LINE	Termini	CSAH 24 TO N CO LINE
135	Present AADT	135
2018	Year of Count	2018
1.1	Projection Factor	1.1
149	Projected Traffic	149
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
2015	Latest Year SA funds	2015
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
2015 SAP 045-613-004 M&OL	Comments	2015 SAP 045-613-004 M&OL
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	2 * 435413.5 / 60 * 25 * 1.1	\$399,129
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	2 * 2112 * 43.04 / 20 * 25	\$227,251
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	2 * 9433.84 / 60 * 25	\$7,862
<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW</b>	<b>\$0 + \$399,129 + \$227,251 + \$7,862</b>	<b>\$634,242</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name : MARSHALL Segment Nbr : 045-614-010**

Original		Current
Unassigned/Unknown	Municipality	Unassigned/Unknown
2	Segment Length	2
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
CSAH 3 TO CSAH 36	Termini	CSAH 3 TO CSAH 36
210	Present AADT	210
2018	Year of Count	2018
1.1	Projection Factor	1.1
231	Projected Traffic	231
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
1990	Latest Year SA funds	1990
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	2 * 435413.5 / 60 * 25 * 1.1	\$399,129
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	2 * 2112 * 43.04 / 20 * 25	\$227,251
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	2 * 9433.84 / 60 * 25	\$7,862
<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW</b>	<b>\$0 + \$399,129 + \$227,251 + \$7,862</b>	<b>\$634,242</b>



**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

Status : Original

County Name : **MARSHALL** Segment Nbr : **045-614-020**

Original		Current
Unassigned/Unknown	Municipality	Unassigned/Unknown
9	Segment Length	9
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
CSAH 36 TO CSAH 11	Termini	CSAH 36 TO CSAH 11
210	Present AADT	210
2018	Year of Count	2018
1.1	Projection Factor	1.1
231	Projected Traffic	231
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
1990	Latest Year SA funds	1990
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Bridge Information**

Status: Original

Original		Current
45517	Structure Number	45517
6.56	Milepoint	6.56
1971	Year Built	1971
SNAKE RIVER	Feature Crossed	SNAKE RIVER
	Type of Service	
	Number of Spans	
81.2	Bridge Length	81.2
38	Bridge Width	38
100%	Shared Structure	100%
	Comments	
1 ( 0-149 )	Bridge Group Code	1 ( 0-149 )

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	9 * 435413.5 / 60 * 25 * 1.1	\$1,796,081
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	9 * 2112 * 43.04 / 20 * 25	\$1,022,630
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	9 * 9433.84 / 60 * 25	\$35,377
Bridge	BridgeLength * BridgeWidth * UnitCost / BridgeLifeCycle * StatutoryNeedsYear * DevelopmentCost	81.2 * 38 * 173 / 80 * 25 * 1.15	\$191,838
Total Segment Cost	Signal Leg + Construction + Preservation + ROW + Bridge	\$0 + \$1,796,081 + \$1,022,630 + \$35,377 + \$191,838	\$3,045,926

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name :**

**MARSHALL**

**Segment Nbr : 045-615-010**

**Original**

**Current**

Unassigned/Unknown	Municipality	Unassigned/Unknown
0.5	Segment Length	0.5
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
SO CO LINE TO 0.5 MI NO	Termini	SO CO LINE TO 0.5 MI NO
670	Present AADT	670
2018	Year of Count	2018
1.1	Projection Factor	1.1
737	Projected Traffic	737
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
1991	Latest Year SA funds	1991
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	0.5 * 435413.5 / 60 * 25 * 1.1	\$99,782
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	0.5 * 2112 * 43.04 / 20 * 25	\$56,813
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	0.5 * 9433.84 / 60 * 25	\$1,965
<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW</b>	<b>\$0 + \$99,782 + \$56,813 + \$1,965</b>	<b>\$158,560</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

Status : Original

County Name : **MARSHALL** Segment Nbr : 045-615-011

Original		Current
Unassigned/Unknown	Municipality	Unassigned/Unknown
0.5	Segment Length	0.5
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
0.5 MI NO OF SO CO LINE TO SO LIM WARREN	Termini	0.5 MI NO OF SO CO LINE TO SO LIM WARREN
670	Present AADT	670
2018	Year of Count	2018
1.1	Projection Factor	1.1
737	Projected Traffic	737
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
1991	Latest Year SA funds	1991
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Culvert Information**

Status: Original

Original		Current
45J36	Structure Number	45J36
0.6	Milepoint	0.6
2003	Year Built	2003
FLOOD WATER DIVERSION	Feature Crossed	FLOOD WATER DIVERSION
	Type of Service	
3	Number of Barrels	3
	Culvert Width	
	Culvert Height	
77	Culvert Length	77
479.99997465	Area of Waterway Opening	479.99997465
100%	Shared Structure	100%
	Comments	
1	Culvert Group Code	1

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	0.5 * 435413.5 / 60 * 25 * 1.1	\$99,782
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	0.5 * 2112 * 43.04 / 20 * 25	\$56,813
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	0.5 * 9433.84 / 60 * 25	\$1,965
Culvert	CulvertLength * Area * UnitCost / CulvertLifeCycle * StatutoryNeedsYear * DevelopmentCost	77 * 479.99997465 * 18.01 / 100 * 25 * 1.15	\$191,374

<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW + Culvert</b>	<b>\$0 + \$99,782 + \$56,813 + \$1,965 + \$191,374</b>	<b>\$349,934</b>
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**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name : MARSHALL Segment Nbr : 045-615-020**

Original		Current
WARREN	Municipality	WARREN
0.2	Segment Length	0.2
AGGREGATE SURF	Existing Surface Type	AGGREGATE SURF
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
SO LIM WARREN TO W LIM WARREN	Termini	SO LIM WARREN TO W LIM WARREN
670	Present AADT	670
2018	Year of Count	2018
1.1	Projection Factor	1.1
737	Projected Traffic	737
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
1980	Latest Year SA funds	1980
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	0.2 * 435413.5 / 60 * 25 * 1.1	\$39,913
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	0.2 * 2112 * 43.04 / 20 * 25	\$22,725
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	0.2 * 9433.84 / 60 * 25	\$786
<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW</b>	<b>\$0 + \$39,913 + \$22,725 + \$786</b>	<b>\$63,424</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

Status : Original

County Name : **MARSHALL** Segment Nbr : 045-615-030

Original		Current
Unassigned/Unknown	Municipality	Unassigned/Unknown
0.3	Segment Length	0.3
AGGREGATE SURF	Existing Surface Type	AGGREGATE SURF
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
WEST LIM WARREN TO TH 1	Termini	WEST LIM WARREN TO TH 1
670	Present AADT	670
2018	Year of Count	2018
1.1	Projection Factor	1.1
737	Projected Traffic	737
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
1980	Latest Year SA funds	1980
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Culvert Information**

Status: Original

Original		Current
45J44	Structure Number	45J44
1.37	Milepoint	1.37
2009	Year Built	2009
SNAKE RIVER	Feature Crossed	SNAKE RIVER
	Type of Service	
2	Number of Barrels	2
	Culvert Width	
	Culvert Height	
107	Culvert Length	107
383.99997972	Area of Waterway Opening	383.99997972
100%	Shared Structure	100%
	Comments	
1	Culvert Group Code	1

**RailRoadCrossing Information**

Status: Original

Original		Current
CANADIAN PACIFIC RAILWAY	RailRoad Name	CANADIAN PACIFIC RAILWAY
696210M	USDOT Number	696210M
0.28	Located at Milepoint	0.28
1	Mainline Tracks	1
SIGNS ONLY	Protection Type	SIGNS ONLY
	Last Year Protection Upgraded	
36	Crossing Length	36
	Last Year Surfaced	
100%	Percentage of Cost	100%
	Comments	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0

Construction	$\text{Length} * \text{UnitCost} / \text{ConstrLifeCycle} * \text{StatutoryNeedsYear} * \text{DevelopmentCost}$	$0.3 * 435413.5 / 60 * 25 * 1.1$	\$59,869
Preservation	$\text{Length} * \text{Quantity} * \text{UnitCost} / \text{PreservationLifeCycle} * \text{StatutoryNeedsYear}$	$0.3 * 2112 * 43.04 / 20 * 25$	\$34,088
ROW	$\text{Length} * \text{UnitCost} / \text{ROWLifeCycle} * \text{StatutoryNeedsYear}$	$0.3 * 9433.84 / 60 * 25$	\$1,179
Culvert	$\text{CulvertLength} * \text{Area} * \text{UnitCost} / \text{CulvertLifeCycle} * \text{StatutoryNeedsYear} * \text{DevelopmentCost}$	$107 * 383.99997972 * 18.01 / 100 * 25 * 1.15$	\$212,749
RR Crossing Protection	$\text{UnitCost} / \text{RRCrossingLifeCycle} * \text{StatutoryNeedsYear}$	$2000 / 25 * 25$	\$2,000
RR Crossing Surface	$\text{SurfaceLength} * \text{UnitCost} / \text{RRCrossingLifeCycle} * \text{StatutoryNeedsYear}$	$36 * 1750 / 25 * 25$	\$63,000
Total Segment Cost	Signal Leg + Construction + Preservation + ROW + Culvert + RR Crossing Protection + RR Crossing Surface	$\$0 + \$59,869 + \$34,088 + \$1,179 + \$212,749 + \$2,000 + \$63,000$	\$372,885

SANEEDS - CSAH - Segment Report

Roadway Segment Information

Status : Original

County Name : MARSHALL Segment Nbr : 045-617-010

Original		Current
Unassigned/Unknown	Municipality	Unassigned/Unknown
1.5	Segment Length	1.5
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
S CO LINE TO TH 1	Termini	S CO LINE TO TH 1
145	Present AADT	145
2018	Year of Count	2018
1.1	Projection Factor	1.1
160	Projected Traffic	160
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
1998	Latest Year SA funds	1998
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

RailRoadCrossing Information

Status: Original

Original		Current
CANADIAN PACIFIC RAILWAY	RailRoad Name	CANADIAN PACIFIC RAILWAY
696237W	USDOT Number	696237W
1.4	Located at Milepoint	1.4
1	Mainline Tracks	1
SIGNS ONLY	Protection Type	SIGNS ONLY
	Last Year Protection Upgraded	
48	Crossing Length	48
	Last Year Surfaced	
100%	Percentage of Cost	100%
	Comments	

Segment Cost Information

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	1.5 * 435413.5 / 60 * 25 * 1.1	\$299,347
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	1.5 * 2112 * 43.04 / 20 * 25	\$170,438
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	1.5 * 9433.84 / 60 * 25	\$5,896
RR Crossing Protection	UnitCost / RRCrossingLifeCycle * StatutoryNeedsYear	2000 / 25 * 25	\$2,000
RR Crossing Surface	SurfaceLength * UnitCost / RRCrossingLifeCycle * StatutoryNeedsYear	48 * 1750 / 25 * 25	\$84,000
Total Segment Cost	Signal Leg + Construction + Preservation + ROW + RR Crossing Protection + RR Crossing Surface	\$0 + \$299,347 + \$170,438 + \$5,896 + \$2,000 + \$84,000	\$561,681



**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name :**

**MARSHALL**

**Segment Nbr : 045-617-011**

**Original**

**Current**

Unassigned/Unknown	Municipality	Unassigned/Unknown
2	Segment Length	2
AGGREGATE SURF	Existing Surface Type	AGGREGATE SURF
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
TH 1 TO CSAH 100	Termini	TH 1 TO CSAH 100
35	Present AADT	35
2018	Year of Count	2018
1.1	Projection Factor	1.1
39	Projected Traffic	39
RURAL	Design Type	RURAL
1 - RURAL : 0 - 149	Design Group	1 ( RURAL : 0 - 149 )
2006	Latest Year SA funds	2006
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
SAP 45-617-013, 2006	Comments	SAP 45-617-013, 2006
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	2 * 217706.75 / 60 * 25 * 1.1	\$199,565
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	2 * 546 * 10.75 / 2 * 25	\$146,738
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	2 * 0 / 60 * 25	\$0
<b>Total Segment Cost</b>	<b>Construction + Preservation + ROW</b>	<b>\$199,565 + \$146,738 + \$0</b>	<b>\$346,303</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

Status : Original

County Name : **MARSHALL** Segment Nbr : **045-617-015**

Original		Current
Unassigned/Unknown	Municipality	Unassigned/Unknown
2.6	Segment Length	2.6
AGGREGATE SURF	Existing Surface Type	AGGREGATE SURF
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
CSAH 100 TO 2.6 MI. N.	Termini	CSAH 100 TO 2.6 MI. N.
35	Present AADT	35
2018	Year of Count	2018
1.1	Projection Factor	1.1
39	Projected Traffic	39
RURAL	Design Type	RURAL
1 - RURAL : 0 - 149	Design Group	1 ( RURAL : 0 - 149 )
2010	Latest Year SA funds	2010
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
2010 AGG. SURF. OVERLAY, SAP 45-617-014	Comments	2010 AGG. SURF. OVERLAY, SAP 45-617-014
	Interchange Override	
	Segment Override	

**Bridge Information**

Status: Original

Original		Current
45546	Structure Number	45546
6.11	Milepoint	6.11
1990	Year Built	1990
SNAKE RIVER	Feature Crossed	SNAKE RIVER
	Type of Service	
	Number of Spans	
127	Bridge Length	127
40	Bridge Width	40
100%	Shared Structure	100%
	Comments	
1 ( 0-149 )	Bridge Group Code	1 ( 0-149 )

**Culvert Information**

Status: Original

Original		Current
95265	Structure Number	95265
6.51	Milepoint	6.51
1979	Year Built	1979
JUD DITCH # 20	Feature Crossed	JUD DITCH # 20
	Type of Service	
2	Number of Barrels	2
10	Culvert Width	10
6	Culvert Height	6
62	Culvert Length	62
89.00023076	Area of Waterway Opening	89.00023076
100%	Shared Structure	100%
	Comments	
1	Culvert Group Code	1

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result

Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	$2.6 * 217706.75 / 60 * 25 * 1.1$	\$259,434
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	$2.6 * 546 * 10.75 / 2 * 25$	\$190,759
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	$2.6 * 0 / 60 * 25$	\$0
Bridge	BridgeLength * BridgeWidth * UnitCost / BridgeLifeCycle * StatutoryNeedsYear * DevelopmentCost	$127 * 40 * 173 / 80 * 25 * 1.15$	\$315,833
Culvert	CulvertLength * Area * UnitCost / CulvertLifeCycle * StatutoryNeedsYear * DevelopmentCost	$62 * 89.00023076 * 18.01 / 100 * 25 * 1.15$	\$28,572
Total Segment Cost	Construction + Preservation + ROW + Bridge + Culvert	$\$259,434 + \$190,759 + \$0 + \$315,833 + \$28,572$	\$794,598

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name :**

**MARSHALL**

**Segment Nbr : 045-617-017**

**Original**

**Current**

Unassigned/Unknown	Municipality	Unassigned/Unknown
1.4	Segment Length	1.4
AGGREGATE SURF	Existing Surface Type	AGGREGATE SURF
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
2.6 MI N TO 4.0 MI N OF CSAH 100	Termini	2.6 MI N TO 4.0 MI N OF CSAH 100
35	Present AADT	35
2018	Year of Count	2018
1.1	Projection Factor	1.1
39	Projected Traffic	39
RURAL	Design Type	RURAL
1 - RURAL : 0 - 149	Design Group	1 ( RURAL : 0 - 149 )
1990	Latest Year SA funds	1990
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
2010 AGG. SURF. OVERLAY, SAP 45-617-014	Comments	2010 AGG. SURF. OVERLAY, SAP 45-617-014
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	1.4 * 217706.75 / 60 * 25 * 1.1	\$139,695
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	1.4 * 546 * 10.75 / 2 * 25	\$102,716
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	1.4 * 0 / 60 * 25	\$0
<b>Total Segment Cost</b>	<b>Construction + Preservation + ROW</b>	<b>\$139,695 + \$102,716 + \$0</b>	<b>\$242,411</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

Status : Original

County Name :

**MARSHALL**

Segment Nbr : 045-617-020

**Original**

**Current**

Unassigned/Unknown	Municipality	Unassigned/Unknown
5	Segment Length	5
AGGREGATE SURF	Existing Surface Type	AGGREGATE SURF
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
6.0 MI N OF TH 1 TO CSAH 4	Termini	6.0 MI N OF TH 1 TO CSAH 4
35	Present AADT	35
2018	Year of Count	2018
1.1	Projection Factor	1.1
39	Projected Traffic	39
RURAL	Design Type	RURAL
1 - RURAL : 0 - 149	Design Group	1 ( RURAL : 0 - 149 )
1993	Latest Year SA funds	1993
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Bridge Information**

Status: Original

**Original**

**Current**

45571	Structure Number	45571
7.55	Milepoint	7.55
2007	Year Built	2007
SNAKE RIVER	Feature Crossed	SNAKE RIVER
STREAM CROSSING	Type of Service	STREAM CROSSING
4	Number of Spans	4
162.67	Bridge Length	162.67
35.33	Bridge Width	35.33
100%	Shared Structure	100%
	Comments	
2 ( 150-999,999 )	Bridge Group Code	2 ( 150-999,999 )

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	5 * 217706.75 / 60 * 25 * 1.1	\$498,911
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	5 * 546 * 10.75 / 2 * 25	\$366,844
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	5 * 0 / 60 * 25	\$0
Bridge	BridgeLength * BridgeWidth * UnitCost / BridgeLifeCycle * StatutoryNeedsYear * DevelopmentCost	162.67 * 35.33 * 141 / 80 * 25 * 1.15	\$291,218
Total Segment Cost	Construction + Preservation + ROW + Bridge	\$498,911 + \$366,844 + \$0 + \$291,218	\$1,156,973

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

Status : Original

County Name : **MARSHALL** Segment Nbr : 045-617-031

Original		Current
Unassigned/Unknown	Municipality	Unassigned/Unknown
2.2	Segment Length	2.2
AGGREGATE SURF	Existing Surface Type	AGGREGATE SURF
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
CSAH 4 TO 2.2 MI NO	Termini	CSAH 4 TO 2.2 MI NO
15	Present AADT	15
2018	Year of Count	2018
1.1	Projection Factor	1.1
17	Projected Traffic	17
RURAL	Design Type	RURAL
1 - RURAL : 0 - 149	Design Group	1 ( RURAL : 0 - 149 )
1989	Latest Year SA funds	1989
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Bridge Information**

Status: Original

Original		Current
45510	Structure Number	45510
14.58	Milepoint	14.58
1965	Year Built	1965
MIDDLE RIVER	Feature Crossed	MIDDLE RIVER
	Type of Service	
	Number of Spans	
71.2	Bridge Length	71.2
29	Bridge Width	29
100%	Shared Structure	100%
	Comments	
1 ( 0-149 )	Bridge Group Code	1 ( 0-149 )

**Bridge Information**

Status: Original

Original		Current
45542	Structure Number	45542
13.67	Milepoint	13.67
1989	Year Built	1989
SNAKE RIVER	Feature Crossed	SNAKE RIVER
	Type of Service	
	Number of Spans	
133	Bridge Length	133
36	Bridge Width	36
100%	Shared Structure	100%
	Comments	
1 ( 0-149 )	Bridge Group Code	1 ( 0-149 )

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	2.2 * 217706.75 / 60 * 25 * 1.1	\$219,521

Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	$2.2 * 546 * 10.75 / 2 * 25$	\$161,411
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	$2.2 * 0 / 60 * 25$	\$0
Bridge	BridgeLength * BridgeWidth * UnitCost / BridgeLifeCycle * StatutoryNeedsYear * DevelopmentCost	$71.2 * 29 * 173 / 80 * 25 * 1.15$	\$128,372
Bridge	BridgeLength * BridgeWidth * UnitCost / BridgeLifeCycle * StatutoryNeedsYear * DevelopmentCost	$133 * 36 * 173 / 80 * 25 * 1.15$	\$297,679
Total Segment Cost	Construction + Preservation + ROW + Bridge + Bridge	$\$219,521 + \$161,411 + \$0 + \$128,372 + \$297,679$	\$806,983

SANEEDS - CSAH - Segment Report

Roadway Segment Information

Status : Original

County Name : MARSHALL Segment Nbr : 045-617-040

Original		Current
Unassigned/Unknown	Municipality	Unassigned/Unknown
0.9	Segment Length	0.9
AGGREGATE SURF	Existing Surface Type	AGGREGATE SURF
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
2.2 MI N TO 3.1 MI N CSAH 4	Termini	2.2 MI N TO 3.1 MI N CSAH 4
15	Present AADT	15
2018	Year of Count	2018
1.1	Projection Factor	1.1
17	Projected Traffic	17
RURAL	Design Type	RURAL
1 - RURAL : 0 - 149	Design Group	1 ( RURAL : 0 - 149 )
2016	Latest Year SA funds	2016
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
2016 SAP 045-617-015 CULVERT R&R 45J54	Comments	2016 SAP 045-617-015 CULVERT R&R 45J54
	Interchange Override	
	Segment Override	

Culvert Information

Status: Original

Original		Current
45J54	Structure Number	45J54
15.58	Milepoint	15.58
2016	Year Built	2016
JUD DITCH # 29	Feature Crossed	JUD DITCH # 29
	Type of Service	
1	Number of Barrels	1
11.4	Culvert Width	11.4
11.4	Culvert Height	11.4
108	Culvert Length	108
66	Area of Waterway Opening	66
100%	Shared Structure	100%
2016 SAP 045-617-015 137IN ARCH CULVERT	Comments	2016 SAP 045-617-015 137IN ARCH CULVERT
1	Culvert Group Code	1

Segment Cost Information

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	0.9 * 217706.75 / 60 * 25 * 1.1	\$89,804
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	0.9 * 546 * 10.75 / 2 * 25	\$66,032
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	0.9 * 0 / 60 * 25	\$0
Culvert	CulvertLength * Area * UnitCost / CulvertLifeCycle * StatutoryNeedsYear * DevelopmentCost	108 * 66 * 18.01 / 100 * 25 * 1.15	\$36,908
Total Segment Cost	Construction + Preservation + ROW + Culvert	\$89,804 + \$66,032 + \$0 + \$36,908	\$192,744



**SANEEDS - CSAH - Segment Report**

Roadway Segment Information		Status : Original
County Name :		MARSHALL
		Segment Nbr : 045-617-050
Original	Current	
Unassigned/Unknown	Municipality	Unassigned/Unknown
5	Segment Length	5
AGGREGATE SURF	Existing Surface Type	AGGREGATE SURF
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
3.1 MI N CSAH 4 TO CSAH 5	Termini	3.1 MI N CSAH 4 TO CSAH 5
15	Present AADT	15
2018	Year of Count	2018
1.1	Projection Factor	1.1
17	Projected Traffic	17
RURAL	Design Type	RURAL
1 - RURAL : 0 - 149	Design Group	1 ( RURAL : 0 - 149 )
2016	Latest Year SA funds	2016
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
2016 SAP 045-605-023 PH1 RECONST REPLACES CULVERT @ CSAH 17 & 5 - S. INTERSECTION	Comments	2016 SAP 045-605-023 PH1 RECONST REPLACES CULVERT @ CSAH 17 & 5 - S. INTERSECTION
	Interchange Override	
	Segment Override	

Culvert Information		Status: Original
Original	Current	
45J50	Structure Number	45J50
20.573	Milepoint	20.573
2016	Year Built	2016
CO DITCH # 12	Feature Crossed	CO DITCH # 12
	Type of Service	
2	Number of Barrels	2
7.25	Culvert Width	7.25
5.25	Culvert Height	5.25
94	Culvert Length	94
256	Area of Waterway Opening	256
100%	Shared Structure	100%
2016 SAP 045-605-023 PH1 RECONST REPLACES CULVERT @ CSAH 17 & 5 - S. INTERSECTION	Comments	2016 SAP 045-605-023 PH1 RECONST REPLACES CULVERT @ CSAH 17 & 5 - S. INTERSECTION
1	Culvert Group Code	1

Culvert Information		Status: Original
Original	Current	
92213	Structure Number	92213
16.58	Milepoint	16.58
1963	Year Built	1963
JUD DITCH # 29	Feature Crossed	JUD DITCH # 29
	Type of Service	
1	Number of Barrels	1
12	Culvert Width	12
8	Culvert Height	8
56	Culvert Length	56
70.99976079	Area of Waterway Opening	70.99976079
100%	Shared Structure	100%
	Comments	
1	Culvert Group Code	1

Culvert Information		Status: Original
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Original		Current
92214	Structure Number	92214
17.56	Milepoint	17.56
1963	Year Built	1963
JUD DITCH # 29	Feature Crossed	JUD DITCH # 29
	Type of Service	
1	Number of Barrels	1
12	Culvert Width	12
8	Culvert Height	8
56	Culvert Length	56
70.99976079	Area of Waterway Opening	70.99976079
100%	Shared Structure	100%
	Comments	
1	Culvert Group Code	1

### Segment Cost Information

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Construction	$\text{Length} * \text{UnitCost} / \text{ConstrLifeCycle} * \text{StatutoryNeedsYear} * \text{DevelopmentCost}$	$5 * 217706.75 / 60 * 25 * 1.1$	\$498,911
Preservation	$\text{Length} * \text{Quantity} * \text{UnitCost} / \text{PreservationLifeCycle} * \text{StatutoryNeedsYear}$	$5 * 546 * 10.75 / 2 * 25$	\$366,844
ROW	$\text{Length} * \text{UnitCost} / \text{ROWLifeCycle} * \text{StatutoryNeedsYear}$	$5 * 0 / 60 * 25$	\$0
Culvert	$\text{CulvertLength} * \text{Area} * \text{UnitCost} / \text{CulvertLifeCycle} * \text{StatutoryNeedsYear} * \text{DevelopmentCost}$	$94 * 256 * 18.01 / 100 * 25 * 1.15$	\$124,600
Culvert	$\text{CulvertLength} * \text{Area} * \text{UnitCost} / \text{CulvertLifeCycle} * \text{StatutoryNeedsYear} * \text{DevelopmentCost}$	$56 * 70.99976079 * 18.01 / 100 * 25 * 1.15$	\$20,587
Culvert	$\text{CulvertLength} * \text{Area} * \text{UnitCost} / \text{CulvertLifeCycle} * \text{StatutoryNeedsYear} * \text{DevelopmentCost}$	$56 * 70.99976079 * 18.01 / 100 * 25 * 1.15$	\$20,587
Total Segment Cost	Construction + Preservation + ROW + Culvert + Culvert + Culvert	$\$498,911 + \$366,844 + \$0 + \$124,600 + \$20,587 + \$20,587$	\$1,031,529

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name :**

**MARSHALL**

**Segment Nbr : 045-618-010**

**Original**

**Current**

Unassigned/Unknown	Municipality	Unassigned/Unknown
1.5	Segment Length	1.5
AGGREGATE SURF	Existing Surface Type	AGGREGATE SURF
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
TH 220 TO CSAH 17	Termini	TH 220 TO CSAH 17
40	Present AADT	40
2018	Year of Count	2018
1.1	Projection Factor	1.1
44	Projected Traffic	44
RURAL	Design Type	RURAL
1 - RURAL : 0 - 149	Design Group	1 ( RURAL : 0 - 149 )
1993	Latest Year SA funds	1993
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	1.5 * 217706.75 / 60 * 25 * 1.1	\$149,673
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	1.5 * 546 * 10.75 / 2 * 25	\$110,053
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	1.5 * 0 / 60 * 25	\$0
<b>Total Segment Cost</b>	<b>Construction + Preservation + ROW</b>	<b>\$149,673 + \$110,053 + \$0</b>	<b>\$259,726</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

Status : Original

County Name : **MARSHALL** Segment Nbr : 045-619-010

Original		Current
Unassigned/Unknown	Municipality	Unassigned/Unknown
3	Segment Length	3
AGGREGATE SURF	Existing Surface Type	AGGREGATE SURF
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
CSAH 17 TO CSAH 10	Termini	CSAH 17 TO CSAH 10
40	Present AADT	40
2018	Year of Count	2018
1.1	Projection Factor	1.1
44	Projected Traffic	44
RURAL	Design Type	RURAL
1 - RURAL : 0 - 149	Design Group	1 ( RURAL : 0 - 149 )
2000	Latest Year SA funds	2000
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Bridge Information**

Status: Original

Original		Current
45569	Structure Number	45569
0.79	Milepoint	0.79
2005	Year Built	2005
SNAKE RIVER	Feature Crossed	SNAKE RIVER
	Type of Service	
	Number of Spans	
153	Bridge Length	153
35.3	Bridge Width	35.3
100%	Shared Structure	100%
	Comments	
2 ( 150-999,999 )	Bridge Group Code	2 ( 150-999,999 )

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	3 * 217706.75 / 60 * 25 * 1.1	\$299,347
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	3 * 546 * 10.75 / 2 * 25	\$220,106
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	3 * 0 / 60 * 25	\$0
Bridge	BridgeLength * BridgeWidth * UnitCost / BridgeLifeCycle * StatutoryNeedsYear * DevelopmentCost	153 * 35.3 * 141 / 80 * 25 * 1.15	\$273,674
Total Segment Cost	Construction + Preservation + ROW + Bridge	\$299,347 + \$220,106 + \$0 + \$273,674	\$793,127

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name :**

**MARSHALL**

**Segment Nbr : 045-619-020**

**Original**

**Current**

Unassigned/Unknown	Municipality	Unassigned/Unknown
5	Segment Length	5
AGGREGATE SURF	Existing Surface Type	AGGREGATE SURF
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
CSAH 10 TO CSAH 21	Termini	CSAH 10 TO CSAH 21
40	Present AADT	40
2018	Year of Count	2018
1.1	Projection Factor	1.1
44	Projected Traffic	44
RURAL	Design Type	RURAL
1 - RURAL : 0 - 149	Design Group	1 ( RURAL : 0 - 149 )
2000	Latest Year SA funds	2000
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	5 * 217706.75 / 60 * 25 * 1.1	\$498,911
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	5 * 546 * 10.75 / 2 * 25	\$366,844
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	5 * 0 / 60 * 25	\$0
<b>Total Segment Cost</b>	<b>Construction + Preservation + ROW</b>	<b>\$498,911 + \$366,844 + \$0</b>	<b>\$865,755</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name :**

**MARSHALL**

**Segment Nbr : 045-619-030**

**Original**

**Current**

Unassigned/Unknown	Municipality	Unassigned/Unknown
3	Segment Length	3
AGGREGATE SURF	Existing Surface Type	AGGREGATE SURF
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
CSAH 21 TO CSAH 50	Termini	CSAH 21 TO CSAH 50
100	Present AADT	100
2018	Year of Count	2018
1.1	Projection Factor	1.1
110	Projected Traffic	110
RURAL	Design Type	RURAL
1 - RURAL : 0 - 149	Design Group	1 ( RURAL : 0 - 149 )
2000	Latest Year SA funds	2000
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	3 * 217706.75 / 60 * 25 * 1.1	\$299,347
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	3 * 546 * 10.75 / 2 * 25	\$220,106
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	3 * 0 / 60 * 25	\$0
<b>Total Segment Cost</b>	<b>Construction + Preservation + ROW</b>	<b>\$299,347 + \$220,106 + \$0</b>	<b>\$519,453</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

Status : Original

County Name :

**MARSHALL**

Segment Nbr : 045-619-031

**Original**

**Current**

Unassigned/Unknown	Municipality	Unassigned/Unknown
0.8	Segment Length	0.8
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
CSAH 50 TO TH 75	Termini	CSAH 50 TO TH 75
115	Present AADT	115
2018	Year of Count	2018
1.1	Projection Factor	1.1
127	Projected Traffic	127
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
1991	Latest Year SA funds	1991
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**RailRoadCrossing Information**

Status: Original

**Original**

**Current**

BURLINGTON NORTHERN SANTA FE RAILWAY	RailRoad Name	BURLINGTON NORTHERN SANTA FE RAILWAY
081397J	USDOT Number	081397J
0.7	Located at Milepoint	0.7
1	Mainline Tracks	1
SIGNS ONLY	Protection Type	SIGNS ONLY
	Last Year Protection Upgraded	
40	Crossing Length	40
	Last Year Surfaced	
100%	Percentage of Cost	100%
	Comments	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	0.8 * 435413.5 / 60 * 25 * 1.1	\$159,652
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	0.8 * 2112 * 43.04 / 20 * 25	\$90,900
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	0.8 * 9433.84 / 60 * 25	\$3,145
RR Crossing Protection	UnitCost / RRCrossingLifeCycle * StatutoryNeedsYear	2000 / 25 * 25	\$2,000
RR Crossing Surface	SurfaceLength * UnitCost / RRCrossingLifeCycle * StatutoryNeedsYear	40 * 1750 / 25 * 25	\$70,000
Total Segment Cost	Signal Leg + Construction + Preservation + ROW + RR Crossing Protection + RR Crossing Surface	\$0 + \$159,652 + \$90,900 + \$3,145 + \$2,000 + \$70,000	\$325,697

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name :**

**MARSHALL**

**Segment Nbr : 045-619-040**

**Original**

**Current**

Unassigned/Unknown	Municipality	Unassigned/Unknown
7.5	Segment Length	7.5
AGGREGATE SURF	Existing Surface Type	AGGREGATE SURF
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
TH 75 TO CSAH 1	Termini	TH 75 TO CSAH 1
80	Present AADT	80
2018	Year of Count	2018
1.1	Projection Factor	1.1
88	Projected Traffic	88
RURAL	Design Type	RURAL
1 - RURAL : 0 - 149	Design Group	1 ( RURAL : 0 - 149 )
2000	Latest Year SA funds	2000
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	7.5 * 217706.75 / 60 * 25 * 1.1	\$748,367
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	7.5 * 546 * 10.75 / 2 * 25	\$550,266
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	7.5 * 0 / 60 * 25	\$0
<b>Total Segment Cost</b>	<b>Construction + Preservation + ROW</b>	<b>\$748,367 + \$550,266 + \$0</b>	<b>\$1,298,633</b>



SANEEDS - CSAH - Segment Report

Roadway Segment Information

Status : Original

County Name : MARSHALL Segment Nbr : 045-620-020

Original		Current
Unassigned/Unknown	Municipality	Unassigned/Unknown
9.5	Segment Length	9.5
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
CSAH 10 TO TH 75	Termini	CSAH 10 TO TH 75
215	Present AADT	215
2018	Year of Count	2018
1.1	Projection Factor	1.1
237	Projected Traffic	237
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
1984	Latest Year SA funds	1984
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

RailRoadCrossing Information

Status: Original

Original		Current
BURLINGTON NORTHERN SANTA FE RAILWAY	RailRoad Name	BURLINGTON NORTHERN SANTA FE RAILWAY
081391T	USDOT Number	081391T
9.4	Located at Milepoint	9.4
1	Mainline Tracks	1
SIGNS ONLY	Protection Type	SIGNS ONLY
	Last Year Protection Upgraded	
33	Crossing Length	33
	Last Year Surfaced	
100%	Percentage of Cost	100%
	Comments	

Segment Cost Information

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	9.5 * 435413.5 / 60 * 25 * 1.1	\$1,895,863
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	9.5 * 2112 * 43.04 / 20 * 25	\$1,079,443
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	9.5 * 9433.84 / 60 * 25	\$37,342
RR Crossing Protection	UnitCost / RRCrossingLifeCycle * StatutoryNeedsYear	2000 / 25 * 25	\$2,000
RR Crossing Surface	SurfaceLength * UnitCost / RRCrossingLifeCycle * StatutoryNeedsYear	33 * 1750 / 25 * 25	\$57,750
Total Segment Cost	Signal Leg + Construction + Preservation + ROW + RR Crossing Protection + RR Crossing Surface	\$0 + \$1,895,863 + \$1,079,443 + \$37,342 + \$2,000 + \$57,750	\$3,072,398

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name :**

**MARSHALL**

**Segment Nbr : 045-620-030**

**Original**

**Current**

Unassigned/Unknown	Municipality	Unassigned/Unknown
5.5	Segment Length	5.5
AGGREGATE SURF	Existing Surface Type	AGGREGATE SURF
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
TH 75 TO CSAH 3	Termini	TH 75 TO CSAH 3
35	Present AADT	35
2018	Year of Count	2018
1.1	Projection Factor	1.1
39	Projected Traffic	39
RURAL	Design Type	RURAL
1 - RURAL : 0 - 149	Design Group	1 ( RURAL : 0 - 149 )
2000	Latest Year SA funds	2000
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	5.5 * 217706.75 / 60 * 25 * 1.1	\$548,802
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	5.5 * 546 * 10.75 / 2 * 25	\$403,528
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	5.5 * 0 / 60 * 25	\$0
<b>Total Segment Cost</b>	<b>Construction + Preservation + ROW</b>	<b>\$548,802 + \$403,528 + \$0</b>	<b>\$952,330</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

Status : Original

County Name : **MARSHALL** Segment Nbr : **045-621-010**

Original		Current
Unassigned/Unknown	Municipality	Unassigned/Unknown
1.4	Segment Length	1.4
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
FROM SOUTH COUNTY LINE TO TH 1	Termini	FROM SOUTH COUNTY LINE TO TH 1
235	Present AADT	235
2018	Year of Count	2018
1.1	Projection Factor	1.1
259	Projected Traffic	259
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
2002	Latest Year SA funds	2002
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
SAP 45-621-004, 2008, SURFACE	Comments	SAP 45-621-004, 2008, SURFACE
	Interchange Override	
	Segment Override	

**Bridge Information**

Status: Original

Original		Current
45557	Structure Number	45557
0.17	Milepoint	0.17
1996	Year Built	1996
SNAKE RIVER	Feature Crossed	SNAKE RIVER
	Type of Service	
	Number of Spans	
136.1	Bridge Length	136.1
36	Bridge Width	36
100%	Shared Structure	100%
	Comments	
1 ( 0-149 )	Bridge Group Code	1 ( 0-149 )

**RailRoadCrossing Information**

Status: Original

Original		Current
NORTHERN PLAINS RAILROAD	RailRoad Name	NORTHERN PLAINS RAILROAD
696218S	USDOT Number	696218S
1.35	Located at Milepoint	1.35
10	Mainline Tracks	10
SIGNS ONLY	Protection Type	SIGNS ONLY
	Last Year Protection Upgraded	
36	Crossing Length	36
	Last Year Surfaced	
100%	Percentage of Cost	100%
	Comments	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0

Construction	$\text{Length} * \text{UnitCost} / \text{ConstrLifeCycle} * \text{StatutoryNeedsYear} * \text{DevelopmentCost}$	$1.4 * 435413.5 / 60 * 25 * 1.1$	\$279,390
Preservation	$\text{Length} * \text{Quantity} * \text{UnitCost} / \text{PreservationLifeCycle} * \text{StatutoryNeedsYear}$	$1.4 * 2112 * 43.04 / 20 * 25$	\$159,076
ROW	$\text{Length} * \text{UnitCost} / \text{ROWLifeCycle} * \text{StatutoryNeedsYear}$	$1.4 * 9433.84 / 60 * 25$	\$5,503
Bridge	$\text{BridgeLength} * \text{BridgeWidth} * \text{UnitCost} / \text{BridgeLifeCycle} * \text{StatutoryNeedsYear} * \text{DevelopmentCost}$	$136.1 * 36 * 173 / 80 * 25 * 1.15$	\$304,617
RR Crossing Protection	$\text{UnitCost} / \text{RRCrossingLifeCycle} * \text{StatutoryNeedsYear}$	$2000 / 25 * 25$	\$2,000
RR Crossing Surface	$\text{SurfaceLength} * \text{UnitCost} / \text{RRCrossingLifeCycle} * \text{StatutoryNeedsYear}$	$36 * 1750 / 25 * 25$	\$63,000
Total Segment Cost	Signal Leg + Construction + Preservation + ROW + Bridge + RR Crossing Protection + RR Crossing Surface	$\$0 + \$279,390 + \$159,076 + \$5,503 + \$304,617 + \$2,000 + \$63,000$	\$813,586

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

Status : Original

County Name : **MARSHALL** Segment Nbr : 045-621-020

Original		Current
Unassigned/Unknown	Municipality	Unassigned/Unknown
8	Segment Length	8
AGGREGATE SURF	Existing Surface Type	AGGREGATE SURF
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
TH 1 TO CSAH 19	Termini	TH 1 TO CSAH 19
35	Present AADT	35
2018	Year of Count	2018
1.1	Projection Factor	1.1
39	Projected Traffic	39
RURAL	Design Type	RURAL
1 - RURAL : 0 - 149	Design Group	1 ( RURAL : 0 - 149 )
2000	Latest Year SA funds	2000
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Culvert Information**

Status: Original

Original		Current
92905	Structure Number	92905
5.02	Milepoint	5.02
1972	Year Built	1972
CO DITCH # 21	Feature Crossed	CO DITCH # 21
	Type of Service	
2	Number of Barrels	2
10	Culvert Width	10
7	Culvert Height	7
34	Culvert Length	34
102.9997591	Area of Waterway Opening	102.9997591
100%	Shared Structure	100%
	Comments	
1	Culvert Group Code	1

**Culvert Information**

Status: Original

Original		Current
96385	Structure Number	96385
7.52	Milepoint	7.52
1986	Year Built	1986
CO DITCH # 3	Feature Crossed	CO DITCH # 3
	Type of Service	
2	Number of Barrels	2
14	Culvert Width	14
8	Culvert Height	8
50	Culvert Length	50
162.99989048	Area of Waterway Opening	162.99989048
100%	Shared Structure	100%
	Comments	
1	Culvert Group Code	1

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result

Construction	$\text{Length} * \text{UnitCost} / \text{ConstrLifeCycle} * \text{StatutoryNeedsYear} * \text{DevelopmentCost}$	$8 * 217706.75 / 60 * 25 * 1.1$	\$798,258
Preservation	$\text{Length} * \text{Quantity} * \text{UnitCost} / \text{PreservationLifeCycle} * \text{StatutoryNeedsYear}$	$8 * 546 * 10.75 / 2 * 25$	\$586,950
ROW	$\text{Length} * \text{UnitCost} / \text{ROWLifeCycle} * \text{StatutoryNeedsYear}$	$8 * 0 / 60 * 25$	\$0
Culvert	$\text{CulvertLength} * \text{Area} * \text{UnitCost} / \text{CulvertLifeCycle} * \text{StatutoryNeedsYear} * \text{DevelopmentCost}$	$34 * 102.9997591 * 18.01 / 100 * 25 * 1.15$	\$18,133
Culvert	$\text{CulvertLength} * \text{Area} * \text{UnitCost} / \text{CulvertLifeCycle} * \text{StatutoryNeedsYear} * \text{DevelopmentCost}$	$50 * 162.99989048 * 18.01 / 100 * 25 * 1.15$	\$42,200
Total Segment Cost	Construction + Preservation + ROW + Culvert + Culvert	$\$798,258 + \$586,950 + \$0 + \$18,133 + \$42,200$	\$1,445,541

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

Status : Original

County Name : **MARSHALL** Segment Nbr : 045-622-010

Original		Current
Unassigned/Unknown	Municipality	Unassigned/Unknown
6	Segment Length	6
AGGREGATE SURF	Existing Surface Type	AGGREGATE SURF
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
CSAH 5 TO N CO LINE	Termini	CSAH 5 TO N CO LINE
40	Present AADT	40
2018	Year of Count	2018
1.1	Projection Factor	1.1
44	Projected Traffic	44
RURAL	Design Type	RURAL
1 - RURAL : 0 - 149	Design Group	1 ( RURAL : 0 - 149 )
2000	Latest Year SA funds	2000
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Bridge Information**

Status: Original

Original		Current
45509	Structure Number	45509
2.48	Milepoint	2.48
1965	Year Built	1965
TAMARAC RIVER	Feature Crossed	TAMARAC RIVER
	Type of Service	
	Number of Spans	
93.2	Bridge Length	93.2
31.3	Bridge Width	31.3
100%	Shared Structure	100%
	Comments	
1 ( 0-149 )	Bridge Group Code	1 ( 0-149 )

**Culvert Information**

Status: Original

Original		Current
97017	Structure Number	97017
6.017	Milepoint	6.017
1994	Year Built	1994
JUD DITCH # 10	Feature Crossed	JUD DITCH # 10
STREAM CROSSING	Type of Service	STREAM CROSSING
1	Number of Barrels	1
12	Culvert Width	12
6	Culvert Height	6
52	Culvert Length	52
69.99979448	Area of Waterway Opening	69.99979448
100%	Shared Structure	100%
	Comments	
1	Culvert Group Code	1

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
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Construction	$\text{Length} * \text{UnitCost} / \text{ConstrLifeCycle} * \text{StatutoryNeedsYear} * \text{DevelopmentCost}$	$6 * 217706.75 / 60 * 25 * 1.1$	\$598,694
Preservation	$\text{Length} * \text{Quantity} * \text{UnitCost} / \text{PreservationLifeCycle} * \text{StatutoryNeedsYear}$	$6 * 546 * 10.75 / 2 * 25$	\$440,213
ROW	$\text{Length} * \text{UnitCost} / \text{ROWLifeCycle} * \text{StatutoryNeedsYear}$	$6 * 0 / 60 * 25$	\$0
Bridge	$\text{BridgeLength} * \text{BridgeWidth} * \text{UnitCost} / \text{BridgeLifeCycle} * \text{StatutoryNeedsYear} * \text{DevelopmentCost}$	$93.2 * 31.3 * 173 / 80 * 25 * 1.15$	\$181,365
Culvert	$\text{CulvertLength} * \text{Area} * \text{UnitCost} / \text{CulvertLifeCycle} * \text{StatutoryNeedsYear} * \text{DevelopmentCost}$	$52 * 69.99979448 * 18.01 / 100 * 25 * 1.15$	\$18,847
Total Segment Cost	Construction + Preservation + ROW + Bridge + Culvert	$\$598,694 + \$440,213 + \$0 + \$181,365 + \$18,847$	\$1,239,119



**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

Status : Original

County Name : **MARSHALL** Segment Nbr : **045-623-010**

Original		Current
Unassigned/Unknown	Municipality	Unassigned/Unknown
4	Segment Length	4
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
CSAH 5 TO CSAH 24	Termini	CSAH 5 TO CSAH 24
100	Present AADT	100
2018	Year of Count	2018
1.1	Projection Factor	1.1
110	Projected Traffic	110
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
2012	Latest Year SA funds	2012
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
2012 SP 045-623-006 M&OL	Comments	2012 SP 045-623-006 M&OL
	Interchange Override	
	Segment Override	

**Culvert Information**

Status: Original

Original		Current
91436	Structure Number	91436
3.1	Milepoint	3.1
1976	Year Built	1976
CO DITCH # 45	Feature Crossed	CO DITCH # 45
	Type of Service	
1	Number of Barrels	1
12	Culvert Width	12
8	Culvert Height	8
50	Culvert Length	50
65.99992924	Area of Waterway Opening	65.99992924
100%	Shared Structure	100%
	Comments	
1	Culvert Group Code	1

**Culvert Information**

Status: Original

Original		Current
91726	Structure Number	91726
0.99	Milepoint	0.99
1977	Year Built	1977
CO DITCH # 45,BR 3	Feature Crossed	CO DITCH # 45,BR 3
	Type of Service	
1	Number of Barrels	1
10	Culvert Width	10
7	Culvert Height	7
54	Culvert Length	54
51.00043459	Area of Waterway Opening	51.00043459
100%	Shared Structure	100%
	Comments	
1	Culvert Group Code	1

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result

Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	4 * 435413.5 / 60 * 25 * 1.1	\$798,258
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	4 * 2112 * 43.04 / 20 * 25	\$454,502
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	4 * 9433.84 / 60 * 25	\$15,723
Culvert	CulvertLength * Area * UnitCost / CulvertLifeCycle * StatutoryNeedsYear * DevelopmentCost	50 * 65.99992924 * 18.01 / 100 * 25 * 1.15	\$17,087
Culvert	CulvertLength * Area * UnitCost / CulvertLifeCycle * StatutoryNeedsYear * DevelopmentCost	54 * 51.00043459 * 18.01 / 100 * 25 * 1.15	\$14,260
Total Segment Cost	Signal Leg + Construction + Preservation + ROW + Culvert + Culvert	\$0 + \$798,258 + \$454,502 + \$15,723 + \$17,087 + \$14,260	\$1,299,830

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name :**

**MARSHALL**

**Segment Nbr : 045-623-020**

**Original**

**Current**

Unassigned/Unknown	Municipality	Unassigned/Unknown
2	Segment Length	2
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
FROM CSAH 24 TO THE NORTH COUNTY LINE	Termini	FROM CSAH 24 TO THE NORTH COUNTY LINE
80	Present AADT	80
2018	Year of Count	2018
1.1	Projection Factor	1.1
88	Projected Traffic	88
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
2009	Latest Year SA funds	2009
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
HEAVY TRUCK TRAFFIC, LANDFILL ACCESS, GRADED 2007 SAP 45-623-004.	Comments	HEAVY TRUCK TRAFFIC, LANDFILL ACCESS, GRADED 2007 SAP 45-623-004.
2ND STAGE SURFACE PROJECT COMPLETED IN 2009, SAP 45-623-005.		2ND STAGE SURFACE PROJECT COMPLETED IN 2009, SAP 45-623-005.

Interchange Override  
Segment Override

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	2 * 435413.5 / 60 * 25 * 1.1	\$399,129
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	2 * 2112 * 43.04 / 20 * 25	\$227,251
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	2 * 9433.84 / 60 * 25	\$7,862
<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW</b>	<b>\$0 + \$399,129 + \$227,251 + \$7,862</b>	<b>\$634,242</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name : MARSHALL Segment Nbr : 045-624-010**

Original		Current
Unassigned/Unknown	Municipality	Unassigned/Unknown
2.8	Segment Length	2.8
AGGREGATE SURF	Existing Surface Type	AGGREGATE SURF
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
TH 75 TO CSAH 23	Termini	TH 75 TO CSAH 23
20	Present AADT	20
2018	Year of Count	2018
1.1	Projection Factor	1.1
22	Projected Traffic	22
RURAL	Design Type	RURAL
1 - RURAL : 0 - 149	Design Group	1 ( RURAL : 0 - 149 )
2015	Latest Year SA funds	2015
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
2015 SAP 045-624-003 RECONST AGG SURF, NO FUTURE PAVING ON PLAN	Comments	2015 SAP 045-624-003 RECONST AGG SURF, NO FUTURE PAVING ON PLAN
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Construction	$\text{Length} * \text{UnitCost} / \text{ConstrLifeCycle} * \text{StatutoryNeedsYear} * \text{DevelopmentCost}$	$2.8 * 217706.75 / 60 * 25 * 1.1$	\$279,390
Preservation	$\text{Length} * \text{Quantity} * \text{UnitCost} / \text{PreservationLifeCycle} * \text{StatutoryNeedsYear}$	$2.8 * 546 * 10.75 / 2 * 25$	\$205,433
ROW	$\text{Length} * \text{UnitCost} / \text{ROWLifeCycle} * \text{StatutoryNeedsYear}$	$2.8 * 0 / 60 * 25$	\$0
Total Segment Cost	Construction + Preservation + ROW	$\$279,390 + \$205,433 + \$0$	\$484,823

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name :**

**MARSHALL**

**Segment Nbr : 045-624-020**

**Original**

**Current**

Unassigned/Unknown	Municipality	Unassigned/Unknown
1	Segment Length	1
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
CSAH 23 TO CO RD 135	Termini	CSAH 23 TO CO RD 135
90	Present AADT	90
2018	Year of Count	2018
1.1	Projection Factor	1.1
99	Projected Traffic	99
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
1994	Latest Year SA funds	1994
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	1 * 435413.5 / 60 * 25 * 1.1	\$199,565
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	1 * 2112 * 43.04 / 20 * 25	\$113,626
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	1 * 9433.84 / 60 * 25	\$3,931
<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW</b>	<b>\$0 + \$199,565 + \$113,626 + \$3,931</b>	<b>\$317,122</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name :**

**MARSHALL**

**Segment Nbr : 045-624-030**

**Original**

**Current**

Unassigned/Unknown	Municipality	Unassigned/Unknown
2	Segment Length	2
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
CO RD 135 TO CSAH 13	Termini	CO RD 135 TO CSAH 13
90	Present AADT	90
2018	Year of Count	2018
1.1	Projection Factor	1.1
99	Projected Traffic	99
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
1994	Latest Year SA funds	1994
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	2 * 435413.5 / 60 * 25 * 1.1	\$399,129
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	2 * 2112 * 43.04 / 20 * 25	\$227,251
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	2 * 9433.84 / 60 * 25	\$7,862
<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW</b>	<b>\$0 + \$399,129 + \$227,251 + \$7,862</b>	<b>\$634,242</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name :**

**MARSHALL**

**Segment Nbr : 045-626-010**

**Original**

**Current**

Unassigned/Unknown	Municipality	Unassigned/Unknown
2.1	Segment Length	2.1
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
CSAH 27 TO N CO LINE	Termini	CSAH 27 TO N CO LINE
300	Present AADT	300
2018	Year of Count	2018
1.1	Projection Factor	1.1
330	Projected Traffic	330
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
1990	Latest Year SA funds	1990
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	2.1 * 435413.5 / 60 * 25 * 1.1	\$419,085
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	2.1 * 2112 * 43.04 / 20 * 25	\$238,614
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	2.1 * 9433.84 / 60 * 25	\$8,255
<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW</b>	<b>\$0 + \$419,085 + \$238,614 + \$8,255</b>	<b>\$665,954</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name :**

**MARSHALL**

**Segment Nbr : 045-627-010**

**Original**

**Current**

Unassigned/Unknown	Municipality	Unassigned/Unknown
3.3	Segment Length	3.3
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
CSAH 1 TO JCT CSAH 26	Termini	CSAH 1 TO JCT CSAH 26
205	Present AADT	205
2018	Year of Count	2018
1.1	Projection Factor	1.1
226	Projected Traffic	226
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
1990	Latest Year SA funds	1990
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	3.3 * 435413.5 / 60 * 25 * 1.1	\$658,563
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	3.3 * 2112 * 43.04 / 20 * 25	\$374,964
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	3.3 * 9433.84 / 60 * 25	\$12,972
<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW</b>	<b>\$0 + \$658,563 + \$374,964 + \$12,972</b>	<b>\$1,046,499</b>



**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

Status : Original

County Name : **MARSHALL** Segment Nbr : 045-627-011

Original		Current
Unassigned/Unknown	Municipality	Unassigned/Unknown
4.2	Segment Length	4.2
AGGREGATE SURF	Existing Surface Type	AGGREGATE SURF
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
JCT CSAH 26 TO TH 59	Termini	JCT CSAH 26 TO TH 59
60	Present AADT	60
2018	Year of Count	2018
1.1	Projection Factor	1.1
66	Projected Traffic	66
RURAL	Design Type	RURAL
1 - RURAL : 0 - 149	Design Group	1 ( RURAL : 0 - 149 )
2000	Latest Year SA funds	2000
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Culvert Information**

Status: Original

Original		Current
95867	Structure Number	95867
3.47	Milepoint	3.47
1983	Year Built	1983
STATE DITCH # 90	Feature Crossed	STATE DITCH # 90
	Type of Service	
2	Number of Barrels	2
12	Culvert Width	12
8	Culvert Height	8
38	Culvert Length	38
131.99985848	Area of Waterway Opening	131.99985848
100%	Shared Structure	100%
	Comments	
1	Culvert Group Code	1

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	4.2 * 217706.75 / 60 * 25 * 1.1	\$419,085
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	4.2 * 546 * 10.75 / 2 * 25	\$308,149
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	4.2 * 0 / 60 * 25	\$0
Culvert	CulvertLength * Area * UnitCost / CulvertLifeCycle * StatutoryNeedsYear * DevelopmentCost	38 * 131.99985848 * 18.01 / 100 * 25 * 1.15	\$25,972
Total Segment Cost	Construction + Preservation + ROW + Culvert	\$419,085 + \$308,149 + \$0 + \$25,972	\$753,206

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

Status : Original

County Name : **MARSHALL** Segment Nbr : 045-627-020

Original		Current
Unassigned/Unknown	Municipality	Unassigned/Unknown
3.2	Segment Length	3.2
AGGREGATE SURF	Existing Surface Type	AGGREGATE SURF
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
TH 59 TO 3.2 MI E	Termini	TH 59 TO 3.2 MI E
75	Present AADT	75
2018	Year of Count	2018
1.1	Projection Factor	1.1
83	Projected Traffic	83
RURAL	Design Type	RURAL
1 - RURAL : 0 - 149	Design Group	1 ( RURAL : 0 - 149 )
2000	Latest Year SA funds	2000
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**RailRoadCrossing Information**

Status: Original

Original		Current
CANADIAN PACIFIC RAILWAY	RailRoad Name	CANADIAN PACIFIC RAILWAY
695958T	USDOT Number	695958T
0	Located at Milepoint	0
1	Mainline Tracks	1
SIGNS ONLY	Protection Type	SIGNS ONLY
	Last Year Protection Upgraded	
24	Crossing Length	24
	Last Year Surfaced	
100%	Percentage of Cost	100%
	Comments	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	3.2 * 217706.75 / 60 * 25 * 1.1	\$319,303
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	3.2 * 546 * 10.75 / 2 * 25	\$234,780
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	3.2 * 0 / 60 * 25	\$0
RR Crossing Protection	UnitCost / RRCrossingLifeCycle * StatutoryNeedsYear	2000 / 25 * 25	\$2,000
RR Crossing Surface	SurfaceLength * UnitCost / RRCrossingLifeCycle * StatutoryNeedsYear	24 * 1750 / 25 * 25	\$42,000
Total Segment Cost	Construction + Preservation + ROW + RR Crossing Protection + RR Crossing Surface	\$319,303 + \$234,780 + \$0 + \$2,000 + \$42,000	\$598,083

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name :**

**MARSHALL**

**Segment Nbr : 045-627-021**

**Original**

**Current**

Unassigned/Unknown	Municipality	Unassigned/Unknown
7	Segment Length	7
AGGREGATE SURF	Existing Surface Type	AGGREGATE SURF
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
3.2 MI E TH 59 TO CO RD 118	Termini	3.2 MI E TH 59 TO CO RD 118
75	Present AADT	75
2018	Year of Count	2018
1.1	Projection Factor	1.1
83	Projected Traffic	83
RURAL	Design Type	RURAL
1 - RURAL : 0 - 149	Design Group	1 ( RURAL : 0 - 149 )
1982	Latest Year SA funds	1982
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	7 * 217706.75 / 60 * 25 * 1.1	\$698,476
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	7 * 546 * 10.75 / 2 * 25	\$513,581
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	7 * 0 / 60 * 25	\$0
<b>Total Segment Cost</b>	<b>Construction + Preservation + ROW</b>	<b>\$698,476 + \$513,581 + \$0</b>	<b>\$1,212,057</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

Status : Original

County Name : **MARSHALL** Segment Nbr : **045-627-030**

Original		Current
Unassigned/Unknown	Municipality	Unassigned/Unknown
4.1	Segment Length	4.1
AGGREGATE SURF	Existing Surface Type	AGGREGATE SURF
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
C.R. 118 TO T.H. 32	Termini	C.R. 118 TO T.H. 32
75	Present AADT	75
2018	Year of Count	2018
1.1	Projection Factor	1.1
83	Projected Traffic	83
RURAL	Design Type	RURAL
1 - RURAL : 0 - 149	Design Group	1 ( RURAL : 0 - 149 )
1987	Latest Year SA funds	1987
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**RailRoadCrossing Information**

Status: Original

Original		Current
BURLINGTON NORTHERN SANTA FE RAILWAY	RailRoad Name	BURLINGTON NORTHERN SANTA FE RAILWAY
062323R	USDOT Number	062323R
3.9	Located at Milepoint	3.9
1	Mainline Tracks	1
SIGNS ONLY	Protection Type	SIGNS ONLY
	Last Year Protection Upgraded	
32	Crossing Length	32
	Last Year Surfaced	
100%	Percentage of Cost	100%
	Comments	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	4.1 * 217706.75 / 60 * 25 * 1.1	\$409,107
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	4.1 * 546 * 10.75 / 2 * 25	\$300,812
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	4.1 * 0 / 60 * 25	\$0
RR Crossing Protection	UnitCost / RRCrossingLifeCycle * StatutoryNeedsYear	2000 / 25 * 25	\$2,000
RR Crossing Surface	SurfaceLength * UnitCost / RRCrossingLifeCycle * StatutoryNeedsYear	32 * 1750 / 25 * 25	\$56,000
Total Segment Cost	Construction + Preservation + ROW + RR Crossing Protection + RR Crossing Surface	\$409,107 + \$300,812 + \$0 + \$2,000 + \$56,000	\$767,919

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

Status : Original

County Name : **MARSHALL** Segment Nbr : 045-628-010

Original		Current
Unassigned/Unknown	Municipality	Unassigned/Unknown
1	Segment Length	1
AGGREGATE SURF	Existing Surface Type	AGGREGATE SURF
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
N CO LINE TO CSAH 27	Termini	N CO LINE TO CSAH 27
55	Present AADT	55
2018	Year of Count	2018
1.1	Projection Factor	1.1
61	Projected Traffic	61
RURAL	Design Type	RURAL
1 - RURAL : 0 - 149	Design Group	1 ( RURAL : 0 - 149 )
2000	Latest Year SA funds	2000
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Culvert Information**

Status: Original

Original		Current
97000	Structure Number	97000
25.448	Milepoint	25.448
1990	Year Built	1990
STATE DITCH #90; LAT 5	Feature Crossed	STATE DITCH #90; LAT 5
STREAM CROSSING	Type of Service	STREAM CROSSING
1	Number of Barrels	1
10	Culvert Width	10
4	Culvert Height	4
46	Culvert Length	46
37.99979617	Area of Waterway Opening	37.99979617
100%	Shared Structure	100%
	Comments	
1	Culvert Group Code	1

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	1 * 217706.75 / 60 * 25 * 1.1	\$99,782
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	1 * 546 * 10.75 / 2 * 25	\$73,369
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	1 * 0 / 60 * 25	\$0
Culvert	CulvertLength * Area * UnitCost / CulvertLifeCycle * StatutoryNeedsYear * DevelopmentCost	46 * 37.99979617 * 18.01 / 100 * 25 * 1.15	\$9,051
Total Segment Cost	Construction + Preservation + ROW + Culvert	\$99,782 + \$73,369 + \$0 + \$9,051	\$182,202

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

Status : Original

County Name : **MARSHALL** Segment Nbr : 045-628-015

Original		Current
Unassigned/Unknown	Municipality	Unassigned/Unknown
2	Segment Length	2
AGGREGATE SURF	Existing Surface Type	AGGREGATE SURF
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
FROM CSAH 27 TO TH 59	Termini	FROM CSAH 27 TO TH 59
45	Present AADT	45
2018	Year of Count	2018
1.1	Projection Factor	1.1
50	Projected Traffic	50
RURAL	Design Type	RURAL
1 - RURAL : 0 - 149	Design Group	1 ( RURAL : 0 - 149 )
2000	Latest Year SA funds	2000
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Culvert Information**

Status: Original

Original		Current
92219	Structure Number	92219
2.18	Milepoint	2.18
1963	Year Built	1963
CO DITCH # 2	Feature Crossed	CO DITCH # 2
	Type of Service	
1	Number of Barrels	1
12	Culvert Width	12
8	Culvert Height	8
72	Culvert Length	72
70.99976079	Area of Waterway Opening	70.99976079
100%	Shared Structure	100%
	Comments	
1	Culvert Group Code	1

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	2 * 217706.75 / 60 * 25 * 1.1	\$199,565
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	2 * 546 * 10.75 / 2 * 25	\$146,738
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	2 * 0 / 60 * 25	\$0
Culvert	CulvertLength * Area * UnitCost / CulvertLifeCycle * StatutoryNeedsYear * DevelopmentCost	72 * 70.99976079 * 18.01 / 100 * 25 * 1.15	\$26,469
Total Segment Cost	Construction + Preservation + ROW + Culvert	\$199,565 + \$146,738 + \$0 + \$26,469	\$372,772

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name :**

**MARSHALL**

**Segment Nbr : 045-628-020**

**Original**

**Current**

Unassigned/Unknown	Municipality	Unassigned/Unknown
0.5	Segment Length	0.5
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
TH 59 TO N LIM STRANDQUIST	Termini	TH 59 TO N LIM STRANDQUIST
135	Present AADT	135
2018	Year of Count	2018
1.1	Projection Factor	1.1
149	Projected Traffic	149
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
2015	Latest Year SA funds	2015
0	Number of Signal Legs	0
THTB - PRIOR TO 1965	Special Message Code	THTB - PRIOR TO 1965
2015 SP 045-628-010 M&OL	Comments	2015 SP 045-628-010 M&OL
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	0.5 * 435413.5 / 60 * 25 * 1.1	\$99,782
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	0.5 * 2112 * 43.04 / 20 * 25	\$56,813
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	0.5 * 9433.84 / 60 * 25	\$1,965
<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW</b>	<b>\$0 + \$99,782 + \$56,813 + \$1,965</b>	<b>\$158,560</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name :**

**MARSHALL**

**Segment Nbr : 045-628-030**

**Original**

**Current**

STRANDQUIST	Municipality	STRANDQUIST
0.5	Segment Length	0.5
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
N LIM STRANDQUIST TO S LIM STRANDQUIST	Termini	N LIM STRANDQUIST TO S LIM STRANDQUIST
135	Present AADT	135
2018	Year of Count	2018
1.1	Projection Factor	1.1
149	Projected Traffic	149
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
2015	Latest Year SA funds	2015
0	Number of Signal Legs	0
THTB - PRIOR TO 1965	Special Message Code	THTB - PRIOR TO 1965
2015 SP 045-628-010 M&OL	Comments	2015 SP 045-628-010 M&OL
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	0.5 * 435413.5 / 60 * 25 * 1.1	\$99,782
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	0.5 * 2112 * 43.04 / 20 * 25	\$56,813
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	0.5 * 9433.84 / 60 * 25	\$1,965
<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW</b>	<b>\$0 + \$99,782 + \$56,813 + \$1,965</b>	<b>\$158,560</b>



**SANEEDS - CSAH - Segment Report**

Roadway Segment Information		Status : Original
County Name :		MARSHALL
		Segment Nbr : 045-628-040
Original	Current	
Unassigned/Unknown	Municipality	Unassigned/Unknown
9	Segment Length	9
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
S LIM STRANDQUIST TO CSAH 4	Termini	S LIM STRANDQUIST TO CSAH 4
160	Present AADT	160
2018	Year of Count	2018
1.1	Projection Factor	1.1
176	Projected Traffic	176
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
2015	Latest Year SA funds	2015
0	Number of Signal Legs	0
THTB - PRIOR TO 1965	Special Message Code	THTB - PRIOR TO 1965
2015 SP 045-628-009 M&OL	Comments	2015 SP 045-628-009 M&OL
	Interchange Override	
	Segment Override	

Bridge Information		Status: Original
Original	Current	
45508	Structure Number	45508
5.88	Milepoint	5.88
1964	Year Built	1964
MIDDLE RIVER	Feature Crossed	MIDDLE RIVER
	Type of Service	
	Number of Spans	
50.1	Bridge Length	50.1
31.4	Bridge Width	31.4
100%	Shared Structure	100%
	Comments	
1 ( 0-149 )	Bridge Group Code	1 ( 0-149 )

Bridge Information		Status: Original
Original	Current	
45514	Structure Number	45514
7.09	Milepoint	7.09
1968	Year Built	1968
MIDDLE RIVER	Feature Crossed	MIDDLE RIVER
	Type of Service	
	Number of Spans	
93.2	Bridge Length	93.2
32	Bridge Width	32
100%	Shared Structure	100%
	Comments	
1 ( 0-149 )	Bridge Group Code	1 ( 0-149 )

Culvert Information		Status: Original
Original	Current	
92218	Structure Number	92218
9.42	Milepoint	9.42
1967	Year Built	1967
JUD DITCH # 15	Feature Crossed	JUD DITCH # 15
	Type of Service	
2	Number of Barrels	2

10	Culvert Width	10
7	Culvert Height	7
76	Culvert Length	76
102.9997591	Area of Waterway Opening	102.9997591
100%	Shared Structure	100%
	Comments	
1	Culvert Group Code	1

### Segment Cost Information

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	9 * 435413.5 / 60 * 25 * 1.1	\$1,796,081
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	9 * 2112 * 43.04 / 20 * 25	\$1,022,630
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	9 * 9433.84 / 60 * 25	\$35,377
Bridge	BridgeLength * BridgeWidth * UnitCost / BridgeLifeCycle * StatutoryNeedsYear * DevelopmentCost	50.1 * 31.4 * 173 / 80 * 25 * 1.15	\$97,805
Bridge	BridgeLength * BridgeWidth * UnitCost / BridgeLifeCycle * StatutoryNeedsYear * DevelopmentCost	93.2 * 32 * 173 / 80 * 25 * 1.15	\$185,421
Culvert	CulvertLength * Area * UnitCost / CulvertLifeCycle * StatutoryNeedsYear * DevelopmentCost	76 * 102.9997591 * 18.01 / 100 * 25 * 1.15	\$40,532
Total Segment Cost	Signal Leg + Construction + Preservation + ROW + Bridge + Bridge + Culvert	\$0 + \$1,796,081 + \$1,022,630 + \$35,377 + \$97,805 + \$185,421 + \$40,532	\$3,177,846

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

Status : Original

County Name : **MARSHALL** Segment Nbr : **045-628-050**

Original		Current
Unassigned/Unknown	Municipality	Unassigned/Unknown
5.2	Segment Length	5.2
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
CSAH 4 TO W LIM OF NEWFOLDEN	Termini	CSAH 4 TO W LIM OF NEWFOLDEN
670	Present AADT	670
2018	Year of Count	2018
1.1	Projection Factor	1.1
737	Projected Traffic	737
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
1989	Latest Year SA funds	1989
0	Number of Signal Legs	0
THTB - PRIOR TO 1965	Special Message Code	THTB - PRIOR TO 1965
	Comments	
	Interchange Override	
	Segment Override	

**Bridge Information**

Status: Original

Original		Current
45516	Structure Number	45516
14.98	Milepoint	14.98
1970	Year Built	1970
MIDDLE RIVER	Feature Crossed	MIDDLE RIVER
	Type of Service	
	Number of Spans	
93.2	Bridge Length	93.2
38	Bridge Width	38
100%	Shared Structure	100%
	Comments	
1 ( 0-149 )	Bridge Group Code	1 ( 0-149 )

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	5.2 * 435413.5 / 60 * 25 * 1.1	\$1,037,736
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	5.2 * 2112 * 43.04 / 20 * 25	\$590,853
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	5.2 * 9433.84 / 60 * 25	\$20,440
Bridge	BridgeLength * BridgeWidth * UnitCost / BridgeLifeCycle * StatutoryNeedsYear * DevelopmentCost	93.2 * 38 * 173 / 80 * 25 * 1.15	\$220,188
Total Segment Cost	Signal Leg + Construction + Preservation + ROW + Bridge	\$0 + \$1,037,736 + \$590,853 + \$20,440 + \$220,188	\$1,869,217

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name : MARSHALL Segment Nbr : 045-628-060**

Original		Current
NEWFOLDEN	Municipality	NEWFOLDEN
0.14	Segment Length	0.14
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
W LIM NEWFOLDEN TO MIDDLE RIVER	Termini	W LIM NEWFOLDEN TO MIDDLE RIVER
670	Present AADT	670
2018	Year of Count	2018
1.1	Projection Factor	1.1
737	Projected Traffic	737
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
1989	Latest Year SA funds	1989
0	Number of Signal Legs	0
THTB - PRIOR TO 1965	Special Message Code	THTB - PRIOR TO 1965
	Comments	
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	0.14 * 435413.5 / 60 * 25 * 1.1	\$27,939
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	0.14 * 2112 * 43.04 / 20 * 25	\$15,908
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	0.14 * 9433.84 / 60 * 25	\$550
<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW</b>	<b>\$0 + \$27,939 + \$15,908 + \$550</b>	<b>\$44,397</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name :**

**MARSHALL**

**Segment Nbr : 045-628-061**

**Original**

**Current**

NEWFOLDEN	Municipality	NEWFOLDEN
0.11	Segment Length	0.11
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
MIDDLE RIV TO 5TH STREET	Termini	MIDDLE RIV TO 5TH STREET
670	Present AADT	670
2018	Year of Count	2018
1.1	Projection Factor	1.1
737	Projected Traffic	737
URBAN	Design Type	URBAN
5 - URBAN : 0 - 9999	Design Group	5 ( URBAN : 0 - 9999 )
1989	Latest Year SA funds	1989
0	Number of Signal Legs	0
THTB - PRIOR TO 1965	Special Message Code	THTB - PRIOR TO 1965
	Comments	
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	0.11 * 2789799.78 / 60 * 25 * 1.15	\$147,046
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	0.11 * 2904 * 43.04 / 15 * 25	\$22,914
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	0.11 * 94238.2 / 60 * 25	\$4,319
<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW</b>	<b>\$0 + \$147,046 + \$22,914 + \$4,319</b>	<b>\$174,279</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name :**

**MARSHALL**

**Segment Nbr : 045-628-070**

**Original**

**Current**

NEWFOLDEN	Municipality	NEWFOLDEN
0.08	Segment Length	0.08
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
5TH ST TO 4TH ST NEWFOLDEN	Termini	5TH ST TO 4TH ST NEWFOLDEN
1500	Present AADT	1500
2018	Year of Count	2018
1.1	Projection Factor	1.1
1650	Projected Traffic	1650
URBAN	Design Type	URBAN
5 - URBAN : 0 - 9999	Design Group	5 ( URBAN : 0 - 9999 )
2012	Latest Year SA funds	2012
0	Number of Signal Legs	0
THTB - PRIOR TO 1965	Special Message Code	THTB - PRIOR TO 1965
2012 SP 045-628-008 SIDEWALK, C&G, LIGHTING	Comments	2012 SP 045-628-008 SIDEWALK, C&G, LIGHTING
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	0.08 * 2789799.78 / 60 * 25 * 1.15	\$106,942
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	0.08 * 2904 * 43.04 / 15 * 25	\$16,665
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	0.08 * 94238.2 / 60 * 25	\$3,141
<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW</b>	<b>\$0 + \$106,942 + \$16,665 + \$3,141</b>	<b>\$126,748</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name :**

**MARSHALL**

**Segment Nbr : 045-628-071**

**Original**

**Current**

NEWFOLDEN	Municipality	NEWFOLDEN
0.12	Segment Length	0.12
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
4TH ST TO 2ND STREET	Termini	4TH ST TO 2ND STREET
1500	Present AADT	1500
2018	Year of Count	2018
1.1	Projection Factor	1.1
1650	Projected Traffic	1650
URBAN	Design Type	URBAN
5 - URBAN : 0 - 9999	Design Group	5 ( URBAN : 0 - 9999 )
2012	Latest Year SA funds	2012
0	Number of Signal Legs	0
THTB - PRIOR TO 1965	Special Message Code	THTB - PRIOR TO 1965
2012 SP 045-628-008 SIDEWALK, C&G, LIGHTING	Comments	2012 SP 045-628-008 SIDEWALK, C&G, LIGHTING
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	0.12 * 2789799.78 / 60 * 25 * 1.15	\$160,413
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	0.12 * 2904 * 43.04 / 15 * 25	\$24,998
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	0.12 * 94238.2 / 60 * 25	\$4,712
<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW</b>	<b>\$0 + \$160,413 + \$24,998 + \$4,712</b>	<b>\$190,123</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name :**

**MARSHALL**

**Segment Nbr : 045-628-072**

**Original**

**Current**

NEWFOLDEN	Municipality	NEWFOLDEN
0.16	Segment Length	0.16
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
2ND ST TO TH 59	Termini	2ND ST TO TH 59
1400	Present AADT	1400
2018	Year of Count	2018
1.1	Projection Factor	1.1
1540	Projected Traffic	1540
URBAN	Design Type	URBAN
5 - URBAN : 0 - 9999	Design Group	5 ( URBAN : 0 - 9999 )
2012	Latest Year SA funds	2012
0	Number of Signal Legs	0
THTB - PRIOR TO 1965	Special Message Code	THTB - PRIOR TO 1965
2012 SP 045-628-008 SIDEWALK, C&G, LIGHTING	Comments	2012 SP 045-628-008 SIDEWALK, C&G, LIGHTING
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	0.16 * 2789799.78 / 60 * 25 * 1.15	\$213,885
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	0.16 * 2904 * 43.04 / 15 * 25	\$33,330
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	0.16 * 94238.2 / 60 * 25	\$6,283
<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW</b>	<b>\$0 + \$213,885 + \$33,330 + \$6,283</b>	<b>\$253,498</b>



SANEEDS - CSAH - Segment Report

Roadway Segment Information

Status : Original

County Name : MARSHALL Segment Nbr : 045-628-073

Original		Current
NEWFOLDEN	Municipality	NEWFOLDEN
0.14	Segment Length	0.14
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
TH 59 TO E THIRD ST	Termini	TH 59 TO E THIRD ST
1450	Present AADT	1450
2018	Year of Count	2018
1.1	Projection Factor	1.1
1595	Projected Traffic	1595
URBAN	Design Type	URBAN
5 - URBAN : 0 - 9999	Design Group	5 ( URBAN : 0 - 9999 )
2017	Latest Year SA funds	2017
0	Number of Signal Legs	0
THTB - PRIOR TO 1965	Special Message Code	THTB - PRIOR TO 1965
2017 SAP 045-628-011 M&OL	Comments	2017 SAP 045-628-011 M&OL
	Interchange Override	
	Segment Override	

RailRoadCrossing Information

Status: Original

Original		Current
CANADIAN PACIFIC RAILWAY	RailRoad Name	CANADIAN PACIFIC RAILWAY
695937A	USDOT Number	695937A
0.04	Located at Milepoint	0.04
1	Mainline Tracks	1
SIGNALS & GATES	Protection Type	SIGNALS & GATES
1990	Last Year Protection Upgraded	1990
57	Crossing Length	57
	Last Year Surfaced	
100%	Percentage of Cost	100%
	Comments	

Segment Cost Information

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	0.14 * 2789799.78 / 60 * 25 * 1.15	\$187,149
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	0.14 * 2904 * 43.04 / 15 * 25	\$29,164
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	0.14 * 94238.2 / 60 * 25	\$5,497
RR Crossing Protection	UnitCost / RRCrossingLifeCycle * StatutoryNeedsYear	350000 / 25 * 25	\$350,000
RR Crossing Surface	SurfaceLength * UnitCost / RRCrossingLifeCycle * StatutoryNeedsYear	57 * 1750 / 25 * 25	\$99,750
Total Segment Cost	Signal Leg + Construction + Preservation + ROW + RR Crossing Protection + RR Crossing Surface	\$0 + \$187,149 + \$29,164 + \$5,497 + \$350,000 + \$99,750	\$671,560

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name : MARSHALL Segment Nbr : 045-628-080**

Original		Current
NEWFOLDEN	Municipality	NEWFOLDEN
0.09	Segment Length	0.09
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
EAST THIRD TO EAST FOURTH ST	Termini	EAST THIRD TO EAST FOURTH ST
530	Present AADT	530
2018	Year of Count	2018
1.1	Projection Factor	1.1
583	Projected Traffic	583
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
1989	Latest Year SA funds	1989
0	Number of Signal Legs	0
THTB - PRIOR TO 1965	Special Message Code	THTB - PRIOR TO 1965
2017 SAP 045-628-011 M&OL	Comments	2017 SAP 045-628-011 M&OL
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	0.09 * 435413.5 / 60 * 25 * 1.1	\$17,961
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	0.09 * 2112 * 43.04 / 20 * 25	\$10,226
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	0.09 * 9433.84 / 60 * 25	\$354
<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW</b>	<b>\$0 + \$17,961 + \$10,226 + \$354</b>	<b>\$28,541</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

Status : Original

County Name :

**MARSHALL**

Segment Nbr : 045-628-081

**Original**

**Current**

NEWFOLDEN	Municipality	NEWFOLDEN
0.16	Segment Length	0.16
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
E 4TH ST TO E LIMITS OF NEWFOLDEN	Termini	E 4TH ST TO E LIMITS OF NEWFOLDEN
530	Present AADT	530
2018	Year of Count	2018
1.1	Projection Factor	1.1
583	Projected Traffic	583
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
1989	Latest Year SA funds	1989
0	Number of Signal Legs	0
THTB - PRIOR TO 1965	Special Message Code	THTB - PRIOR TO 1965
2017 SAP 045-628-011 M&OL	Comments	2017 SAP 045-628-011 M&OL
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	0.16 * 435413.5 / 60 * 25 * 1.1	\$31,930
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	0.16 * 2112 * 43.04 / 20 * 25	\$18,180
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	0.16 * 9433.84 / 60 * 25	\$629
<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW</b>	<b>\$0 + \$31,930 + \$18,180 + \$629</b>	<b>\$50,739</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name :**

**MARSHALL**

**Segment Nbr : 045-628-090**

**Original**

**Current**

Unassigned/Unknown	Municipality	Unassigned/Unknown
6.2	Segment Length	6.2
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
E LIM NEWFOLDEN TO TH 32	Termini	E LIM NEWFOLDEN TO TH 32
530	Present AADT	530
2018	Year of Count	2018
1.1	Projection Factor	1.1
583	Projected Traffic	583
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
1989	Latest Year SA funds	1989
0	Number of Signal Legs	0
THTB - PRIOR TO 1965	Special Message Code	THTB - PRIOR TO 1965
2017 SAP 045-628-011 M&OL	Comments	2017 SAP 045-628-011 M&OL
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	6.2 * 435413.5 / 60 * 25 * 1.1	\$1,237,300
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	6.2 * 2112 * 43.04 / 20 * 25	\$704,479
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	6.2 * 9433.84 / 60 * 25	\$24,371
<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW</b>	<b>\$0 + \$1,237,300 + \$704,479 + \$24,371</b>	<b>\$1,966,150</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name :**

**MARSHALL**

**Segment Nbr : 045-629-010**

**Original**

**Current**

STRANDQUIST	Municipality	STRANDQUIST
0.5	Segment Length	0.5
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
W. LIM. TO E. LIM. STRANDQUIST	Termini	W. LIM. TO E. LIM. STRANDQUIST
145	Present AADT	145
2018	Year of Count	2018
1.1	Projection Factor	1.1
160	Projected Traffic	160
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
2016	Latest Year SA funds	2016
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
2016 SAP 045-629-004 M&OL	Comments	2016 SAP 045-629-004 M&OL
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	0.5 * 435413.5 / 60 * 25 * 1.1	\$99,782
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	0.5 * 2112 * 43.04 / 20 * 25	\$56,813
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	0.5 * 9433.84 / 60 * 25	\$1,965
<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW</b>	<b>\$0 + \$99,782 + \$56,813 + \$1,965</b>	<b>\$158,560</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name :**

**MARSHALL**

**Segment Nbr : 045-630-010**

**Original**

**Current**

Unassigned/Unknown	Municipality	Unassigned/Unknown
1	Segment Length	1
AGGREGATE SURF	Existing Surface Type	AGGREGATE SURF
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
TH 75 TO CR 109	Termini	TH 75 TO CR 109
35	Present AADT	35
2018	Year of Count	2018
1.1	Projection Factor	1.1
39	Projected Traffic	39
RURAL	Design Type	RURAL
1 - RURAL : 0 - 149	Design Group	1 ( RURAL : 0 - 149 )
2000	Latest Year SA funds	2000
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	1 * 217706.75 / 60 * 25 * 1.1	\$99,782
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	1 * 546 * 10.75 / 2 * 25	\$73,369
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	1 * 0 / 60 * 25	\$0
<b>Total Segment Cost</b>	<b>Construction + Preservation + ROW</b>	<b>\$99,782 + \$73,369 + \$0</b>	<b>\$173,151</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name :**

**MARSHALL**

**Segment Nbr : 045-630-020**

**Original**

**Current**

Unassigned/Unknown	Municipality	Unassigned/Unknown
0.2	Segment Length	0.2
AGGREGATE SURF	Existing Surface Type	AGGREGATE SURF
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
CO RD 109 TO 0.2 MI E	Termini	CO RD 109 TO 0.2 MI E
35	Present AADT	35
2018	Year of Count	2018
1.1	Projection Factor	1.1
39	Projected Traffic	39
RURAL	Design Type	RURAL
1 - RURAL : 0 - 149	Design Group	1 ( RURAL : 0 - 149 )
2000	Latest Year SA funds	2000
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Construction	$\text{Length} * \text{UnitCost} / \text{ConstrLifeCycle} * \text{StatutoryNeedsYear} * \text{DevelopmentCost}$	$0.2 * 217706.75 / 60 * 25 * 1.1$	\$19,956
Preservation	$\text{Length} * \text{Quantity} * \text{UnitCost} / \text{PreservationLifeCycle} * \text{StatutoryNeedsYear}$	$0.2 * 546 * 10.75 / 2 * 25$	\$14,674
ROW	$\text{Length} * \text{UnitCost} / \text{ROWLifeCycle} * \text{StatutoryNeedsYear}$	$0.2 * 0 / 60 * 25$	\$0
<b>Total Segment Cost</b>	<b>Construction + Preservation + ROW</b>	<b>\$19,956 + \$14,674 + \$0</b>	<b>\$34,630</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

Status : Original

County Name : **MARSHALL** Segment Nbr : 045-630-021

Original		Current
Unassigned/Unknown	Municipality	Unassigned/Unknown
0.5	Segment Length	0.5
AGGREGATE SURF	Existing Surface Type	AGGREGATE SURF
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
0.2 MI E TO 0.7 MI E CO RD 109	Termini	0.2 MI E TO 0.7 MI E CO RD 109
35	Present AADT	35
2018	Year of Count	2018
1.1	Projection Factor	1.1
39	Projected Traffic	39
RURAL	Design Type	RURAL
1 - RURAL : 0 - 149	Design Group	1 ( RURAL : 0 - 149 )
1986	Latest Year SA funds	1986
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Culvert Information**

Status: Original

Original		Current
93786	Structure Number	93786
1.5	Milepoint	1.5
1987	Year Built	1987
CO DITCH # 45	Feature Crossed	CO DITCH # 45
	Type of Service	
2	Number of Barrels	2
12	Culvert Width	12
8	Culvert Height	8
66	Culvert Length	66
131.99985848	Area of Waterway Opening	131.99985848
100%	Shared Structure	100%
	Comments	
1	Culvert Group Code	1

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	0.5 * 217706.75 / 60 * 25 * 1.1	\$49,891
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	0.5 * 546 * 10.75 / 2 * 25	\$36,684
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	0.5 * 0 / 60 * 25	\$0
Culvert	CulvertLength * Area * UnitCost / CulvertLifeCycle * StatutoryNeedsYear * DevelopmentCost	66 * 131.99985848 * 18.01 / 100 * 25 * 1.15	\$45,110
Total Segment Cost	Construction + Preservation + ROW + Culvert	\$49,891 + \$36,684 + \$0 + \$45,110	\$131,685



**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name :**

**MARSHALL**

**Segment Nbr : 045-630-022**

**Original**

**Current**

Unassigned/Unknown	Municipality	Unassigned/Unknown
0.4	Segment Length	0.4
AGGREGATE SURF	Existing Surface Type	AGGREGATE SURF
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
0.7 MI E CO RD 109 TO CSAH 32	Termini	0.7 MI E CO RD 109 TO CSAH 32
35	Present AADT	35
2018	Year of Count	2018
1.1	Projection Factor	1.1
39	Projected Traffic	39
RURAL	Design Type	RURAL
1 - RURAL : 0 - 149	Design Group	1 ( RURAL : 0 - 149 )
2000	Latest Year SA funds	2000
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	0.4 * 217706.75 / 60 * 25 * 1.1	\$39,913
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	0.4 * 546 * 10.75 / 2 * 25	\$29,348
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	0.4 * 0 / 60 * 25	\$0
<b>Total Segment Cost</b>	<b>Construction + Preservation + ROW</b>	<b>\$39,913 + \$29,348 + \$0</b>	<b>\$69,261</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name :**

**MARSHALL**

**Segment Nbr : 045-630-023**

**Original**

**Current**

Unassigned/Unknown	Municipality	Unassigned/Unknown
1.2	Segment Length	1.2
AGGREGATE SURF	Existing Surface Type	AGGREGATE SURF
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
JCT. CSAH 32 AND 1.20 MI. EAST	Termini	JCT. CSAH 32 AND 1.20 MI. EAST
25	Present AADT	25
2018	Year of Count	2018
1.1	Projection Factor	1.1
28	Projected Traffic	28
RURAL	Design Type	RURAL
1 - RURAL : 0 - 149	Design Group	1 ( RURAL : 0 - 149 )
1999	Latest Year SA funds	1999
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	1.2 * 217706.75 / 60 * 25 * 1.1	\$119,739
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	1.2 * 546 * 10.75 / 2 * 25	\$88,043
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	1.2 * 0 / 60 * 25	\$0
<b>Total Segment Cost</b>	<b>Construction + Preservation + ROW</b>	<b>\$119,739 + \$88,043 + \$0</b>	<b>\$207,782</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

Status : Original

County Name : **MARSHALL** Segment Nbr : **045-630-030**

Original		Current
Unassigned/Unknown	Municipality	Unassigned/Unknown
3.1	Segment Length	3.1
AGGREGATE SURF	Existing Surface Type	AGGREGATE SURF
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
1.20 MI E OF CSAH 32 TO CSAH 34	Termini	1.20 MI E OF CSAH 32 TO CSAH 34
25	Present AADT	25
2018	Year of Count	2018
1.1	Projection Factor	1.1
28	Projected Traffic	28
RURAL	Design Type	RURAL
1 - RURAL : 0 - 149	Design Group	1 ( RURAL : 0 - 149 )
2000	Latest Year SA funds	2000
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Bridge Information**

Status: Original

Original		Current
45541	Structure Number	45541
3.53	Milepoint	3.53
1999	Year Built	1999
TAMARAC RIVER	Feature Crossed	TAMARAC RIVER
	Type of Service	
	Number of Spans	
124.2	Bridge Length	124.2
35.7	Bridge Width	35.7
100%	Shared Structure	100%
	Comments	
1 ( 0-149 )	Bridge Group Code	1 ( 0-149 )

**Culvert Information**

Status: Original

Original		Current
96728	Structure Number	96728
5.69	Milepoint	5.69
1990	Year Built	1990
DITCH	Feature Crossed	DITCH
	Type of Service	
1	Number of Barrels	1
10	Culvert Width	10
6	Culvert Height	6
54	Culvert Length	54
58.00019876	Area of Waterway Opening	58.00019876
100%	Shared Structure	100%
	Comments	
1	Culvert Group Code	1

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
--------------------	---------------------	-----------------------------	--------------------

Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	$3.1 * 217706.75 / 60 * 25 * 1.1$	\$309,325
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	$3.1 * 546 * 10.75 / 2 * 25$	\$227,443
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	$3.1 * 0 / 60 * 25$	\$0
Bridge	BridgeLength * BridgeWidth * UnitCost / BridgeLifeCycle * StatutoryNeedsYear * DevelopmentCost	$124.2 * 35.7 * 173 / 80 * 25 * 1.15$	\$275,666
Culvert	CulvertLength * Area * UnitCost / CulvertLifeCycle * StatutoryNeedsYear * DevelopmentCost	$54 * 58.00019876 * 18.01 / 100 * 25 * 1.15$	\$16,217
Total Segment Cost	Construction + Preservation + ROW + Bridge + Culvert	$\$309,325 + \$227,443 + \$0 + \$275,666 + \$16,217$	\$828,651

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name :**

**MARSHALL**

**Segment Nbr : 045-630-040**

**Original**

**Current**

Unassigned/Unknown	Municipality	Unassigned/Unknown
4	Segment Length	4
AGGREGATE SURF	Existing Surface Type	AGGREGATE SURF
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
CSAH 34 TO CSAH 1	Termini	CSAH 34 TO CSAH 1
55	Present AADT	55
2018	Year of Count	2018
1.1	Projection Factor	1.1
61	Projected Traffic	61
RURAL	Design Type	RURAL
1 - RURAL : 0 - 149	Design Group	1 ( RURAL : 0 - 149 )
2000	Latest Year SA funds	2000
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	4 * 217706.75 / 60 * 25 * 1.1	\$399,129
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	4 * 546 * 10.75 / 2 * 25	\$293,475
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	4 * 0 / 60 * 25	\$0
<b>Total Segment Cost</b>	<b>Construction + Preservation + ROW</b>	<b>\$399,129 + \$293,475 + \$0</b>	<b>\$692,604</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name :**

**MARSHALL**

**Segment Nbr : 045-630-050**

**Original**

**Current**

Unassigned/Unknown	Municipality	Unassigned/Unknown
8	Segment Length	8
AGGREGATE SURF	Existing Surface Type	AGGREGATE SURF
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
CSAH 1 TO CSAH 28	Termini	CSAH 1 TO CSAH 28
75	Present AADT	75
2018	Year of Count	2018
1.1	Projection Factor	1.1
83	Projected Traffic	83
RURAL	Design Type	RURAL
1 - RURAL : 0 - 149	Design Group	1 ( RURAL : 0 - 149 )
1991	Latest Year SA funds	1991
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	8 * 217706.75 / 60 * 25 * 1.1	\$798,258
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	8 * 546 * 10.75 / 2 * 25	\$586,950
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	8 * 0 / 60 * 25	\$0
<b>Total Segment Cost</b>	<b>Construction + Preservation + ROW</b>	<b>\$798,258 + \$586,950 + \$0</b>	<b>\$1,385,208</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

Status : Original

County Name : **MARSHALL** Segment Nbr : **045-630-060**

Original		Current
Unassigned/Unknown	Municipality	Unassigned/Unknown
6	Segment Length	6
AGGREGATE SURF	Existing Surface Type	AGGREGATE SURF
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
CSAH 28 TO CSAH 8	Termini	CSAH 28 TO CSAH 8
75	Present AADT	75
2018	Year of Count	2018
1.1	Projection Factor	1.1
83	Projected Traffic	83
RURAL	Design Type	RURAL
1 - RURAL : 0 - 149	Design Group	1 ( RURAL : 0 - 149 )
2013	Latest Year SA funds	2013
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
2013 SAP 045-630-010 NO FUTURE PAVING ON PLAN	Comments	2013 SAP 045-630-010 NO FUTURE PAVING ON PLAN
	Interchange Override	
	Segment Override	

**RailRoadCrossing Information**

Status: Original

Original		Current
CANADIAN PACIFIC RAILWAY	RailRoad Name	CANADIAN PACIFIC RAILWAY
695942W	USDOT Number	695942W
3.1	Located at Milepoint	3.1
1	Mainline Tracks	1
SIGNS ONLY	Protection Type	SIGNS ONLY
	Last Year Protection Upgraded	
32	Crossing Length	32
	Last Year Surfaced	
100%	Percentage of Cost	100%
	Comments	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Construction	$\text{Length} * \text{UnitCost} / \text{ConstrLifeCycle} * \text{StatutoryNeedsYear} * \text{DevelopmentCost}$	$6 * 217706.75 / 60 * 25 * 1.1$	\$598,694
Preservation	$\text{Length} * \text{Quantity} * \text{UnitCost} / \text{PreservationLifeCycle} * \text{StatutoryNeedsYear}$	$6 * 546 * 10.75 / 2 * 25$	\$440,213
ROW	$\text{Length} * \text{UnitCost} / \text{ROWLifeCycle} * \text{StatutoryNeedsYear}$	$6 * 0 / 60 * 25$	\$0
RR Crossing Protection	$\text{UnitCost} / \text{RRCrossingLifeCycle} * \text{StatutoryNeedsYear}$	$2000 / 25 * 25$	\$2,000
RR Crossing Surface	$\text{SurfaceLength} * \text{UnitCost} / \text{RRCrossingLifeCycle} * \text{StatutoryNeedsYear}$	$32 * 1750 / 25 * 25$	\$56,000
Total Segment Cost	Construction + Preservation + ROW + RR Crossing Protection + RR Crossing Surface	$\$598,694 + \$440,213 + \$0 + \$2,000 + \$56,000$	\$1,096,907

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name :**

**MARSHALL**

**Segment Nbr : 045-630-070**

**Original**

**Current**

Unassigned/Unknown	Municipality	Unassigned/Unknown
2.1	Segment Length	2.1
AGGREGATE SURF	Existing Surface Type	AGGREGATE SURF
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
CSAH 8 TO 2.1 MI E	Termini	CSAH 8 TO 2.1 MI E
90	Present AADT	90
2018	Year of Count	2018
1.1	Projection Factor	1.1
99	Projected Traffic	99
RURAL	Design Type	RURAL
1 - RURAL : 0 - 149	Design Group	1 ( RURAL : 0 - 149 )
1983	Latest Year SA funds	1983
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	2.1 * 217706.75 / 60 * 25 * 1.1	\$209,543
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	2.1 * 546 * 10.75 / 2 * 25	\$154,074
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	2.1 * 0 / 60 * 25	\$0
<b>Total Segment Cost</b>	<b>Construction + Preservation + ROW</b>	<b>\$209,543 + \$154,074 + \$0</b>	<b>\$363,617</b>



**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

Status : Original

County Name : **MARSHALL** Segment Nbr : **045-630-080**

Original		Current
Unassigned/Unknown	Municipality	Unassigned/Unknown
4.9	Segment Length	4.9
AGGREGATE SURF	Existing Surface Type	AGGREGATE SURF
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
2.1 MI E OF CSAH 8 TO TH 32	Termini	2.1 MI E OF CSAH 8 TO TH 32
90	Present AADT	90
2018	Year of Count	2018
1.1	Projection Factor	1.1
99	Projected Traffic	99
RURAL	Design Type	RURAL
1 - RURAL : 0 - 149	Design Group	1 ( RURAL : 0 - 149 )
1990	Latest Year SA funds	1990
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Culvert Information**

Status: Original

Original		Current
45J43	Structure Number	45J43
28.882	Milepoint	28.882
2009	Year Built	2009
MIDDLE RIVER	Feature Crossed	MIDDLE RIVER
	Type of Service	
3	Number of Barrels	3
	Culvert Width	
	Culvert Height	
82	Culvert Length	82
299.99958051	Area of Waterway Opening	299.99958051
100%	Shared Structure	100%
	Comments	
1	Culvert Group Code	1

**Culvert Information**

Status: Original

Original		Current
97045	Structure Number	97045
29.223	Milepoint	29.223
1990	Year Built	1990
STREAM	Feature Crossed	STREAM
STREAM CROSSING	Type of Service	STREAM CROSSING
1	Number of Barrels	1
14	Culvert Width	14
10	Culvert Height	10
66	Culvert Length	66
98.99989386	Area of Waterway Opening	98.99989386
100%	Shared Structure	100%
	Comments	
1	Culvert Group Code	1

**RailRoadCrossing Information**

Status: Original

Original	Current
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BURLINGTON NORTHERN SANTA FE RAILWAY	RailRoad Name	BURLINGTON NORTHERN SANTA FE RAILWAY
062311W	USDOT Number	062311W
4.8	Located at Milepoint	4.8
1	Mainline Tracks	1
SIGNS ONLY	Protection Type	SIGNS ONLY
	Last Year Protection Upgraded	
34	Crossing Length	34
	Last Year Surfaced	
100%	Percentage of Cost	100%
	Comments	

### Segment Cost Information

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Construction	$\text{Length} * \text{UnitCost} / \text{ConstrLifeCycle} * \text{StatutoryNeedsYear} * \text{DevelopmentCost}$	$4.9 * 217706.75 / 60 * 25 * 1.1$	\$488,933
Preservation	$\text{Length} * \text{Quantity} * \text{UnitCost} / \text{PreservationLifeCycle} * \text{StatutoryNeedsYear}$	$4.9 * 546 * 10.75 / 2 * 25$	\$359,507
ROW	$\text{Length} * \text{UnitCost} / \text{ROWLifeCycle} * \text{StatutoryNeedsYear}$	$4.9 * 0 / 60 * 25$	\$0
Culvert	$\text{CulvertLength} * \text{Area} * \text{UnitCost} / \text{CulvertLifeCycle} * \text{StatutoryNeedsYear} * \text{DevelopmentCost}$	$82 * 299.99958051 * 18.01 / 100 * 25 * 1.15$	\$127,376
Culvert	$\text{CulvertLength} * \text{Area} * \text{UnitCost} / \text{CulvertLifeCycle} * \text{StatutoryNeedsYear} * \text{DevelopmentCost}$	$66 * 98.99989386 * 18.01 / 100 * 25 * 1.15$	\$33,832
RR Crossing Protection	$\text{UnitCost} / \text{RRCrossingLifeCycle} * \text{StatutoryNeedsYear}$	$2000 / 25 * 25$	\$2,000
RR Crossing Surface	$\text{SurfaceLength} * \text{UnitCost} / \text{RRCrossingLifeCycle} * \text{StatutoryNeedsYear}$	$34 * 1750 / 25 * 25$	\$59,500
Total Segment Cost	Construction + Preservation + ROW + Culvert + Culvert + RR Crossing Protection + RR Crossing Surface	$\$488,933 + \$359,507 + \$0 + \$127,376 + \$33,832 + \$2,000 + \$59,500$	\$1,071,148

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name :**

**MARSHALL**

**Segment Nbr : 045-631-010**

**Original**

**Current**

Unassigned/Unknown	Municipality	Unassigned/Unknown
3	Segment Length	3
AGGREGATE SURF	Existing Surface Type	AGGREGATE SURF
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
CSAH 38 TO CSAH 11	Termini	CSAH 38 TO CSAH 11
35	Present AADT	35
2018	Year of Count	2018
1.1	Projection Factor	1.1
39	Projected Traffic	39
RURAL	Design Type	RURAL
1 - RURAL : 0 - 149	Design Group	1 ( RURAL : 0 - 149 )
2000	Latest Year SA funds	2000
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	3 * 217706.75 / 60 * 25 * 1.1	\$299,347
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	3 * 546 * 10.75 / 2 * 25	\$220,106
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	3 * 0 / 60 * 25	\$0
<b>Total Segment Cost</b>	<b>Construction + Preservation + ROW</b>	<b>\$299,347 + \$220,106 + \$0</b>	<b>\$519,453</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name :**

**MARSHALL**

**Segment Nbr : 045-631-020**

**Original**

**Current**

Unassigned/Unknown	Municipality	Unassigned/Unknown
4	Segment Length	4
AGGREGATE SURF	Existing Surface Type	AGGREGATE SURF
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
CSAH 11 TO CSAH 8	Termini	CSAH 11 TO CSAH 8
85	Present AADT	85
2018	Year of Count	2018
1.1	Projection Factor	1.1
94	Projected Traffic	94
RURAL	Design Type	RURAL
1 - RURAL : 0 - 149	Design Group	1 ( RURAL : 0 - 149 )
1998	Latest Year SA funds	1998
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	4 * 217706.75 / 60 * 25 * 1.1	\$399,129
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	4 * 546 * 10.75 / 2 * 25	\$293,475
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	4 * 0 / 60 * 25	\$0
<b>Total Segment Cost</b>	<b>Construction + Preservation + ROW</b>	<b>\$399,129 + \$293,475 + \$0</b>	<b>\$692,604</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name : MARSHALL Segment Nbr : 045-632-010**

Original		Current
ARGYLE	Municipality	ARGYLE
0.5	Segment Length	0.5
AGGREGATE SURF	Existing Surface Type	AGGREGATE SURF
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
CSAH 4 TO N LIM ARGYLE	Termini	CSAH 4 TO N LIM ARGYLE
30	Present AADT	30
2018	Year of Count	2018
1.1	Projection Factor	1.1
33	Projected Traffic	33
RURAL	Design Type	RURAL
1 - RURAL : 0 - 149	Design Group	1 ( RURAL : 0 - 149 )
2004	Latest Year SA funds	2004
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
REGRADED & AGG SURF SAP 45-632-02	Comments	REGRADED & AGG SURF SAP 45-632-02
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Construction	$\text{Length} * \text{UnitCost} / \text{ConstrLifeCycle} * \text{StatutoryNeedsYear} * \text{DevelopmentCost}$	$0.5 * 217706.75 / 60 * 25 * 1.1$	\$49,891
Preservation	$\text{Length} * \text{Quantity} * \text{UnitCost} / \text{PreservationLifeCycle} * \text{StatutoryNeedsYear}$	$0.5 * 546 * 10.75 / 2 * 25$	\$36,684
ROW	$\text{Length} * \text{UnitCost} / \text{ROWLifeCycle} * \text{StatutoryNeedsYear}$	$0.5 * 0 / 60 * 25$	\$0
Total Segment Cost	Construction + Preservation + ROW	$\$49,891 + \$36,684 + \$0$	\$86,575

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

Status : Original

County Name : **MARSHALL** Segment Nbr : **045-632-020**

Original		Current
Unassigned/Unknown	Municipality	Unassigned/Unknown
6.7	Segment Length	6.7
AGGREGATE SURF	Existing Surface Type	AGGREGATE SURF
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
N. LIM. ARGYLE TO CSAH 6	Termini	N. LIM. ARGYLE TO CSAH 6
30	Present AADT	30
2018	Year of Count	2018
1.1	Projection Factor	1.1
33	Projected Traffic	33
RURAL	Design Type	RURAL
1 - RURAL : 0 - 149	Design Group	1 ( RURAL : 0 - 149 )
2004	Latest Year SA funds	2004
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
REGRADED & AGG SURF SAP 45-632-02	Comments	REGRADED & AGG SURF SAP 45-632-02
	Interchange Override	
	Segment Override	

**Bridge Information**

Status: Original

Original		Current
45566	Structure Number	45566
4.41	Milepoint	4.41
2004	Year Built	2004
TAMARAC RIVER	Feature Crossed	TAMARAC RIVER
STREAM CROSSING	Type of Service	STREAM CROSSING
3	Number of Spans	3
128.5	Bridge Length	128.5
35.3	Bridge Width	35.3
100%	Shared Structure	100%
	Comments	
1 ( 0-149 )	Bridge Group Code	1 ( 0-149 )

**Culvert Information**

Status: Original

Original		Current
93782	Structure Number	93782
3.25	Milepoint	3.25
1975	Year Built	1975
CO DITCH # 45, BR # 4	Feature Crossed	CO DITCH # 45, BR # 4
	Type of Service	
1	Number of Barrels	1
12	Culvert Width	12
8	Culvert Height	8
30	Culvert Length	30
65.99992924	Area of Waterway Opening	65.99992924
100%	Shared Structure	100%
	Comments	
1	Culvert Group Code	1

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
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Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	$6.7 * 217706.75 / 60 * 25 * 1.1$	\$668,541
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	$6.7 * 546 * 10.75 / 2 * 25$	\$491,571
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	$6.7 * 0 / 60 * 25$	\$0
Bridge	BridgeLength * BridgeWidth * UnitCost / BridgeLifeCycle * StatutoryNeedsYear * DevelopmentCost	$128.5 * 35.3 * 173 / 80 * 25 * 1.15$	\$282,015
Culvert	CulvertLength * Area * UnitCost / CulvertLifeCycle * StatutoryNeedsYear * DevelopmentCost	$30 * 65.99992924 * 18.01 / 100 * 25 * 1.15$	\$10,252
Total Segment Cost	Construction + Preservation + ROW + Bridge + Culvert	$\$668,541 + \$491,571 + \$0 + \$282,015 + \$10,252$	\$1,452,379

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

Status : Original

County Name : **MARSHALL** Segment Nbr : 045-633-010

Original		Current
Unassigned/Unknown	Municipality	Unassigned/Unknown
3	Segment Length	3
AGGREGATE SURF	Existing Surface Type	AGGREGATE SURF
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
CSAH 3 TO CSAH 20	Termini	CSAH 3 TO CSAH 20
35	Present AADT	35
2018	Year of Count	2018
1.1	Projection Factor	1.1
39	Projected Traffic	39
RURAL	Design Type	RURAL
1 - RURAL : 0 - 149	Design Group	1 ( RURAL : 0 - 149 )
1986	Latest Year SA funds	1986
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Culvert Information**

Status: Original

Original		Current
95868	Structure Number	95868
2.24	Milepoint	2.24
1983	Year Built	1983
MELGAARD COULEE	Feature Crossed	MELGAARD COULEE
	Type of Service	
1	Number of Barrels	1
12	Culvert Width	12
6	Culvert Height	6
70	Culvert Length	70
71.9997271	Area of Waterway Opening	71.9997271
100%	Shared Structure	100%
	Comments	
1	Culvert Group Code	1

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	3 * 217706.75 / 60 * 25 * 1.1	\$299,347
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	3 * 546 * 10.75 / 2 * 25	\$220,106
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	3 * 0 / 60 * 25	\$0
Culvert	CulvertLength * Area * UnitCost / CulvertLifeCycle * StatutoryNeedsYear * DevelopmentCost	70 * 71.9997271 * 18.01 / 100 * 25 * 1.15	\$26,096
Total Segment Cost	Construction + Preservation + ROW + Culvert	\$299,347 + \$220,106 + \$0 + \$26,096	\$545,549



SANEEDS - CSAH - Segment Report

Roadway Segment Information

Status : Original

County Name : MARSHALL Segment Nbr : 045-633-020

Original		Current
Unassigned/Unknown	Municipality	Unassigned/Unknown
4	Segment Length	4
AGGREGATE SURF	Existing Surface Type	AGGREGATE SURF
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
CSAH 20 TO CSAH 19	Termini	CSAH 20 TO CSAH 19
35	Present AADT	35
2018	Year of Count	2018
1.1	Projection Factor	1.1
39	Projected Traffic	39
RURAL	Design Type	RURAL
1 - RURAL : 0 - 149	Design Group	1 ( RURAL : 0 - 149 )
1986	Latest Year SA funds	1986
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

Culvert Information

Status: Original

Original		Current
96378	Structure Number	96378
4.099	Milepoint	4.099
1986	Year Built	1986
SWIFT COULEE	Feature Crossed	SWIFT COULEE
	Type of Service	
1	Number of Barrels	1
12	Culvert Width	12
8	Culvert Height	8
58	Culvert Length	58
95.99999493	Area of Waterway Opening	95.99999493
100%	Shared Structure	100%
	Comments	
1	Culvert Group Code	1

Segment Cost Information

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	4 * 217706.75 / 60 * 25 * 1.1	\$399,129
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	4 * 546 * 10.75 / 2 * 25	\$293,475
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	4 * 0 / 60 * 25	\$0
Culvert	CulvertLength * Area * UnitCost / CulvertLifeCycle * StatutoryNeedsYear * DevelopmentCost	58 * 95.99999493 * 18.01 / 100 * 25 * 1.15	\$28,830
Total Segment Cost	Construction + Preservation + ROW + Culvert	\$399,129 + \$293,475 + \$0 + \$28,830	\$721,434

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

Status : Original

County Name : **MARSHALL** Segment Nbr : 045-633-030

Original		Current
Unassigned/Unknown	Municipality	Unassigned/Unknown
2	Segment Length	2
AGGREGATE SURF	Existing Surface Type	AGGREGATE SURF
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
CSAH 19 TO CSAH 4	Termini	CSAH 19 TO CSAH 4
35	Present AADT	35
2018	Year of Count	2018
1.1	Projection Factor	1.1
39	Projected Traffic	39
RURAL	Design Type	RURAL
1 - RURAL : 0 - 149	Design Group	1 ( RURAL : 0 - 149 )
1986	Latest Year SA funds	1986
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Bridge Information**

Status: Original

Original		Current
45529	Structure Number	45529
7.76	Milepoint	7.76
1980	Year Built	1980
MIDDLE RIVER	Feature Crossed	MIDDLE RIVER
	Type of Service	
	Number of Spans	
137.3	Bridge Length	137.3
37.3	Bridge Width	37.3
100%	Shared Structure	100%
	Comments	
1 ( 0-149 )	Bridge Group Code	1 ( 0-149 )

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	2 * 217706.75 / 60 * 25 * 1.1	\$199,565
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	2 * 546 * 10.75 / 2 * 25	\$146,738
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	2 * 0 / 60 * 25	\$0
Bridge	BridgeLength * BridgeWidth * UnitCost / BridgeLifeCycle * StatutoryNeedsYear * DevelopmentCost	137.3 * 37.3 * 173 / 80 * 25 * 1.15	\$318,400
Total Segment Cost	Construction + Preservation + ROW + Bridge	\$199,565 + \$146,738 + \$0 + \$318,400	\$664,703

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

Status : Original

County Name : **MARSHALL** Segment Nbr : **045-634-010**

Original		Current
Unassigned/Unknown	Municipality	Unassigned/Unknown
2	Segment Length	2
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
TH 1 TO CSAH 3	Termini	TH 1 TO CSAH 3
150	Present AADT	150
2018	Year of Count	2018
1.1	Projection Factor	1.1
165	Projected Traffic	165
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
2008	Latest Year SA funds	2008
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
SAP 45-634-010, 2008, SURFACED	Comments	SAP 45-634-010, 2008, SURFACED
	Interchange Override	
	Segment Override	

**Bridge Information**

Status: Original

Original		Current
45567	Structure Number	45567
0.99	Milepoint	0.99
2005	Year Built	2005
SNAKE RIVER	Feature Crossed	SNAKE RIVER
	Type of Service	
	Number of Spans	
88.6	Bridge Length	88.6
39.3	Bridge Width	39.3
100%	Shared Structure	100%
	Comments	
1 ( 0-149 )	Bridge Group Code	1 ( 0-149 )

**RailRoadCrossing Information**

Status: Original

Original		Current
CANADIAN PACIFIC RAILWAY	RailRoad Name	CANADIAN PACIFIC RAILWAY
696201N	USDOT Number	696201N
0.5	Located at Milepoint	0.5
1	Mainline Tracks	1
SIGNS ONLY	Protection Type	SIGNS ONLY
	Last Year Protection Upgraded	
36	Crossing Length	36
	Last Year Surfaced	
100%	Percentage of Cost	100%
	Comments	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0

Construction	$\text{Length} * \text{UnitCost} / \text{ConstrLifeCycle} * \text{StatutoryNeedsYear} * \text{DevelopmentCost}$	$2 * 435413.5 / 60 * 25 * 1.1$	\$399,129
Preservation	$\text{Length} * \text{Quantity} * \text{UnitCost} / \text{PreservationLifeCycle} * \text{StatutoryNeedsYear}$	$2 * 2112 * 43.04 / 20 * 25$	\$227,251
ROW	$\text{Length} * \text{UnitCost} / \text{ROWLifeCycle} * \text{StatutoryNeedsYear}$	$2 * 9433.84 / 60 * 25$	\$7,862
Bridge	$\text{BridgeLength} * \text{BridgeWidth} * \text{UnitCost} / \text{BridgeLifeCycle} * \text{StatutoryNeedsYear} * \text{DevelopmentCost}$	$88.6 * 39.3 * 173 / 80 * 25 * 1.15$	\$216,481
RR Crossing Protection	$\text{UnitCost} / \text{RRCrossingLifeCycle} * \text{StatutoryNeedsYear}$	$2000 / 25 * 25$	\$2,000
RR Crossing Surface	$\text{SurfaceLength} * \text{UnitCost} / \text{RRCrossingLifeCycle} * \text{StatutoryNeedsYear}$	$36 * 1750 / 25 * 25$	\$63,000
Total Segment Cost	Signal Leg + Construction + Preservation + ROW + Bridge + RR Crossing Protection + RR Crossing Surface	$\$0 + \$399,129 + \$227,251 + \$7,862 + \$216,481 + \$2,000 + \$63,000$	\$915,723

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name : MARSHALL Segment Nbr : 045-634-020**

Original		Current
Unassigned/Unknown	Municipality	Unassigned/Unknown
5.5	Segment Length	5.5
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
CSAH 3 TO 5.5 MI NO	Termini	CSAH 3 TO 5.5 MI NO
150	Present AADT	150
2018	Year of Count	2018
1.1	Projection Factor	1.1
165	Projected Traffic	165
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
2001	Latest Year SA funds	2001
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
REINSTATING FULL NEEDS IN 2006	Comments	REINSTATING FULL NEEDS IN 2006
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	5.5 * 435413.5 / 60 * 25 * 1.1	\$1,097,605
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	5.5 * 2112 * 43.04 / 20 * 25	\$624,941
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	5.5 * 9433.84 / 60 * 25	\$21,619
<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW</b>	<b>\$0 + \$1,097,605 + \$624,941 + \$21,619</b>	<b>\$1,744,165</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

Status : Original

County Name : **MARSHALL** Segment Nbr : **045-634-021**

Original		Current
Unassigned/Unknown	Municipality	Unassigned/Unknown
1	Segment Length	1
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
5.5 MI TO 6.5 MI NO CSAH 3	Termini	5.5 MI TO 6.5 MI NO CSAH 3
150	Present AADT	150
2018	Year of Count	2018
1.1	Projection Factor	1.1
165	Projected Traffic	165
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
2001	Latest Year SA funds	2001
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Bridge Information**

Status: Original

Original		Current
45527	Structure Number	45527
8.32	Milepoint	8.32
1978	Year Built	1978
MIDDLE RIVER	Feature Crossed	MIDDLE RIVER
	Type of Service	
	Number of Spans	
118.3	Bridge Length	118.3
37.3	Bridge Width	37.3
100%	Shared Structure	100%
	Comments	
1 ( 0-149 )	Bridge Group Code	1 ( 0-149 )

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	1 * 435413.5 / 60 * 25 * 1.1	\$199,565
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	1 * 2112 * 43.04 / 20 * 25	\$113,626
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	1 * 9433.84 / 60 * 25	\$3,931
Bridge	BridgeLength * BridgeWidth * UnitCost / BridgeLifeCycle * StatutoryNeedsYear * DevelopmentCost	118.3 * 37.3 * 173 / 80 * 25 * 1.15	\$274,339
Total Segment Cost	Signal Leg + Construction + Preservation + ROW + Bridge	\$0 + \$199,565 + \$113,626 + \$3,931 + \$274,339	\$591,461

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

Status : Original

County Name : **MARSHALL** Segment Nbr : **045-634-030**

Original		Current
Unassigned/Unknown	Municipality	Unassigned/Unknown
8.7	Segment Length	8.7
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
6.5 MI. NORTH OF CSAH 3 TO CSAH 6	Termini	6.5 MI. NORTH OF CSAH 3 TO CSAH 6
150	Present AADT	150
2018	Year of Count	2018
1.1	Projection Factor	1.1
165	Projected Traffic	165
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
2001	Latest Year SA funds	2001
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
REINSTATE FULL NEEDS, COMBINED SEGMENTS 022 AND 030 INTO 030 IN 2006.	Comments	REINSTATE FULL NEEDS, COMBINED SEGMENTS 022 AND 030 INTO 030 IN 2006.
	Interchange Override	
	Segment Override	

**Bridge Information**

Status: Original

Original		Current
45563	Structure Number	45563
15.12	Milepoint	15.12
2001	Year Built	2001
Tamarac River	Feature Crossed	Tamarac River
STREAM CROSSING	Type of Service	STREAM CROSSING
3	Number of Spans	3
103.5	Bridge Length	103.5
39.1	Bridge Width	39.1
100%	Shared Structure	100%
	Comments	
1 ( 0-149 )	Bridge Group Code	1 ( 0-149 )

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	8.7 * 435413.5 / 60 * 25 * 1.1	\$1,736,211
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	8.7 * 2112 * 43.04 / 20 * 25	\$988,543
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	8.7 * 9433.84 / 60 * 25	\$34,198
Bridge	BridgeLength * BridgeWidth * UnitCost / BridgeLifeCycle * StatutoryNeedsYear * DevelopmentCost	103.5 * 39.1 * 173 / 80 * 25 * 1.15	\$251,600
<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW + Bridge</b>	<b>\$0 + \$1,736,211 + \$988,543 + \$34,198 + \$251,600</b>	<b>\$3,010,552</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

Status : Original

County Name : **MARSHALL** Segment Nbr : 045-635-010

Original		Current
Unassigned/Unknown	Municipality	Unassigned/Unknown
5	Segment Length	5
AGGREGATE SURF	Existing Surface Type	AGGREGATE SURF
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
CSAH 3 TO CSAH 36	Termini	CSAH 3 TO CSAH 36
35	Present AADT	35
2018	Year of Count	2018
1.1	Projection Factor	1.1
39	Projected Traffic	39
RURAL	Design Type	RURAL
1 - RURAL : 0 - 149	Design Group	1 ( RURAL : 0 - 149 )
2000	Latest Year SA funds	2000
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**RailRoadCrossing Information**

Status: Original

Original		Current
CANADIAN PACIFIC RAILWAY	RailRoad Name	CANADIAN PACIFIC RAILWAY
696192S	USDOT Number	696192S
4.1	Located at Milepoint	4.1
1	Mainline Tracks	1
SIGNS ONLY	Protection Type	SIGNS ONLY
	Last Year Protection Upgraded	
64	Crossing Length	64
	Last Year Surfaced	
100%	Percentage of Cost	100%
	Comments	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	5 * 217706.75 / 60 * 25 * 1.1	\$498,911
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	5 * 546 * 10.75 / 2 * 25	\$366,844
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	5 * 0 / 60 * 25	\$0
RR Crossing Protection	UnitCost / RRCrossingLifeCycle * StatutoryNeedsYear	2000 / 25 * 25	\$2,000
RR Crossing Surface	SurfaceLength * UnitCost / RRCrossingLifeCycle * StatutoryNeedsYear	64 * 1750 / 25 * 25	\$112,000
Total Segment Cost	Construction + Preservation + ROW + RR Crossing Protection + RR Crossing Surface	\$498,911 + \$366,844 + \$0 + \$2,000 + \$112,000	\$979,755



**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name : MARSHALL Segment Nbr : 045-636-010**

Original		Current
Unassigned/Unknown	Municipality	Unassigned/Unknown
1.5	Segment Length	1.5
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
S. CO. LINE TO T.H. 1	Termini	S. CO. LINE TO T.H. 1
110	Present AADT	110
2018	Year of Count	2018
1.1	Projection Factor	1.1
121	Projected Traffic	121
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
2018	Latest Year SA funds	2018
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
2018 SAP 045-636-005 M&OL	Comments	2018 SAP 045-636-005 M&OL
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	1.5 * 435413.5 / 60 * 25 * 1.1	\$299,347
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	1.5 * 2112 * 43.04 / 20 * 25	\$170,438
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	1.5 * 9433.84 / 60 * 25	\$5,896
<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW</b>	<b>\$0 + \$299,347 + \$170,438 + \$5,896</b>	<b>\$475,681</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

Status : Original

County Name : **MARSHALL** Segment Nbr : **045-636-011**

Original		Current
Unassigned/Unknown	Municipality	Unassigned/Unknown
5	Segment Length	5
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
TH 1 TO CSAH 14	Termini	TH 1 TO CSAH 14
265	Present AADT	265
2018	Year of Count	2018
1.1	Projection Factor	1.1
292	Projected Traffic	292
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
2018	Latest Year SA funds	2018
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
2018 SAP 045-636-005 M&OL	Comments	2018 SAP 045-636-005 M&OL
	Interchange Override	
	Segment Override	

**Bridge Information**

Status: Original

Original		Current
45515	Structure Number	45515
2.68	Milepoint	2.68
1969	Year Built	1969
SNAKE RIVER	Feature Crossed	SNAKE RIVER
	Type of Service	
	Number of Spans	
75.2	Bridge Length	75.2
31.7	Bridge Width	31.7
100%	Shared Structure	100%
	Comments	
1 ( 0-149 )	Bridge Group Code	1 ( 0-149 )

**RailRoadCrossing Information**

Status: Original

Original		Current
CANADIAN PACIFIC RAILWAY	RailRoad Name	CANADIAN PACIFIC RAILWAY
696188C	USDOT Number	696188C
2.4	Located at Milepoint	2.4
1	Mainline Tracks	1
SIGNS ONLY	Protection Type	SIGNS ONLY
0	Last Year Protection Upgraded	0
40	Crossing Length	40
0	Last Year Surfaced	0
100%	Percentage of Cost	100%
	Comments	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0

Construction	$\text{Length} * \text{UnitCost} / \text{ConstrLifeCycle} * \text{StatutoryNeedsYear} * \text{DevelopmentCost}$	$5 * 435413.5 / 60 * 25 * 1.1$	\$997,823
Preservation	$\text{Length} * \text{Quantity} * \text{UnitCost} / \text{PreservationLifeCycle} * \text{StatutoryNeedsYear}$	$5 * 2112 * 43.04 / 20 * 25$	\$568,128
ROW	$\text{Length} * \text{UnitCost} / \text{ROWLifeCycle} * \text{StatutoryNeedsYear}$	$5 * 9433.84 / 60 * 25$	\$19,654
Bridge	$\text{BridgeLength} * \text{BridgeWidth} * \text{UnitCost} / \text{BridgeLifeCycle} * \text{StatutoryNeedsYear} * \text{DevelopmentCost}$	$75.2 * 31.7 * 173 / 80 * 25 * 1.15$	\$148,208
RR Crossing Protection	$\text{UnitCost} / \text{RRCrossingLifeCycle} * \text{StatutoryNeedsYear}$	$2000 / 25 * 25$	\$2,000
RR Crossing Surface	$\text{SurfaceLength} * \text{UnitCost} / \text{RRCrossingLifeCycle} * \text{StatutoryNeedsYear}$	$40 * 1750 / 25 * 25$	\$70,000
Total Segment Cost	Signal Leg + Construction + Preservation + ROW + Bridge + RR Crossing Protection + RR Crossing Surface	$\$0 + \$997,823 + \$568,128 + \$19,654 + \$148,208 + \$2,000 + \$70,000$	\$1,805,813

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name :**

**MARSHALL**

**Segment Nbr : 045-637-010**

**Original**

**Current**

Unassigned/Unknown	Municipality	Unassigned/Unknown
5	Segment Length	5
AGGREGATE SURF	Existing Surface Type	AGGREGATE SURF
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
CSAH 3 TO CSAH 38	Termini	CSAH 3 TO CSAH 38
60	Present AADT	60
2018	Year of Count	2018
1.1	Projection Factor	1.1
66	Projected Traffic	66
RURAL	Design Type	RURAL
1 - RURAL : 0 - 149	Design Group	1 ( RURAL : 0 - 149 )
2000	Latest Year SA funds	2000
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	5 * 217706.75 / 60 * 25 * 1.1	\$498,911
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	5 * 546 * 10.75 / 2 * 25	\$366,844
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	5 * 0 / 60 * 25	\$0
<b>Total Segment Cost</b>	<b>Construction + Preservation + ROW</b>	<b>\$498,911 + \$366,844 + \$0</b>	<b>\$865,755</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name :**

**MARSHALL**

**Segment Nbr : 045-638-005**

**Original**

**Current**

Unassigned/Unknown	Municipality	Unassigned/Unknown
1.8	Segment Length	1.8
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
SO. CO. LINE TO CSAH 2.	Termini	SO. CO. LINE TO CSAH 2.
170	Present AADT	170
2018	Year of Count	2018
1.1	Projection Factor	1.1
187	Projected Traffic	187
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
1996	Latest Year SA funds	1996
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	1.8 * 435413.5 / 60 * 25 * 1.1	\$359,216
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	1.8 * 2112 * 43.04 / 20 * 25	\$204,526
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	1.8 * 9433.84 / 60 * 25	\$7,075
<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW</b>	<b>\$0 + \$359,216 + \$204,526 + \$7,075</b>	<b>\$570,817</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

Status : Original

County Name : **MARSHALL** Segment Nbr : 045-638-010

Original		Current
Unassigned/Unknown	Municipality	Unassigned/Unknown
4.2	Segment Length	4.2
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
CSAH 2 TO CSAH 14	Termini	CSAH 2 TO CSAH 14
155	Present AADT	155
2018	Year of Count	2018
1.1	Projection Factor	1.1
171	Projected Traffic	171
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
1996	Latest Year SA funds	1996
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Culvert Information**

Status: Original

Original		Current
97736	Structure Number	97736
3.35	Milepoint	3.35
1994	Year Built	1994
S BR SNAKE RIVER	Feature Crossed	S BR SNAKE RIVER
STREAM CROSSING	Type of Service	STREAM CROSSING
1	Number of Barrels	1
14	Culvert Width	14
8	Culvert Height	8
140	Culvert Length	140
81.00050028	Area of Waterway Opening	81.00050028
100%	Shared Structure	100%
	Comments	
1	Culvert Group Code	1

**RailRoadCrossing Information**

Status: Original

Original		Current
CANADIAN PACIFIC RAILWAY	RailRoad Name	CANADIAN PACIFIC RAILWAY
696175B	USDOT Number	696175B
1.5	Located at Milepoint	1.5
1	Mainline Tracks	1
SIGNS ONLY	Protection Type	SIGNS ONLY
	Last Year Protection Upgraded	
36	Crossing Length	36
	Last Year Surfaced	
100%	Percentage of Cost	100%
	Comments	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0

Construction	$\text{Length} * \text{UnitCost} / \text{ConstrLifeCycle} * \text{StatutoryNeedsYear} * \text{DevelopmentCost}$	$4.2 * 435413.5 / 60 * 25 * 1.1$	\$838,171
Preservation	$\text{Length} * \text{Quantity} * \text{UnitCost} / \text{PreservationLifeCycle} * \text{StatutoryNeedsYear}$	$4.2 * 2112 * 43.04 / 20 * 25$	\$477,228
ROW	$\text{Length} * \text{UnitCost} / \text{ROWLifeCycle} * \text{StatutoryNeedsYear}$	$4.2 * 9433.84 / 60 * 25$	\$16,509
Culvert	$\text{CulvertLength} * \text{Area} * \text{UnitCost} / \text{CulvertLifeCycle} * \text{StatutoryNeedsYear} * \text{DevelopmentCost}$	$140 * 81.00050028 * 18.01 / 100 * 25 * 1.15$	\$58,717
RR Crossing Protection	$\text{UnitCost} / \text{RRCrossingLifeCycle} * \text{StatutoryNeedsYear}$	$2000 / 25 * 25$	\$2,000
RR Crossing Surface	$\text{SurfaceLength} * \text{UnitCost} / \text{RRCrossingLifeCycle} * \text{StatutoryNeedsYear}$	$36 * 1750 / 25 * 25$	\$63,000
Total Segment Cost	Signal Leg + Construction + Preservation + ROW + Culvert + RR Crossing Protection + RR Crossing Surface	$\$0 + \$838,171 + \$477,228 + \$16,509 + \$58,717 + \$2,000 + \$63,000$	\$1,455,625

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

Status : Original

County Name : **MARSHALL** Segment Nbr : 045-638-020

Original		Current
Unassigned/Unknown	Municipality	Unassigned/Unknown
6	Segment Length	6
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
CSAH 14 TO CSAH 4	Termini	CSAH 14 TO CSAH 4
145	Present AADT	145
2018	Year of Count	2018
1.1	Projection Factor	1.1
160	Projected Traffic	160
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
2012	Latest Year SA funds	2012
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
2012 SP045-638-006 M&OL	Comments	2012 SP045-638-006 M&OL
	Interchange Override	
	Segment Override	

**Culvert Information**

Status: Original

Original		Current
91676	Structure Number	91676
10.91	Milepoint	10.91
1977	Year Built	1977
SNAKE RIVER	Feature Crossed	SNAKE RIVER
	Type of Service	
2	Number of Barrels	2
10	Culvert Width	10
7	Culvert Height	7
64	Culvert Length	64
102.9997591	Area of Waterway Opening	102.9997591
100%	Shared Structure	100%
	Comments	
1	Culvert Group Code	1

**Culvert Information**

Status: Original

Original		Current
91677	Structure Number	91677
8.96	Milepoint	8.96
1977	Year Built	1977
CO DITCH # 18	Feature Crossed	CO DITCH # 18
	Type of Service	
1	Number of Barrels	1
14	Culvert Width	14
8	Culvert Height	8
50	Culvert Length	50
82.00046659	Area of Waterway Opening	82.00046659
100%	Shared Structure	100%
	Comments	
1	Culvert Group Code	1

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result



Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	6 * 435413.5 / 60 * 25 * 1.1	\$1,197,387
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	6 * 2112 * 43.04 / 20 * 25	\$681,754
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	6 * 9433.84 / 60 * 25	\$23,585
Culvert	CulvertLength * Area * UnitCost / CulvertLifeCycle * StatutoryNeedsYear * DevelopmentCost	64 * 102.9997591 * 18.01 / 100 * 25 * 1.15	\$34,132
Culvert	CulvertLength * Area * UnitCost / CulvertLifeCycle * StatutoryNeedsYear * DevelopmentCost	50 * 82.00046659 * 18.01 / 100 * 25 * 1.15	\$21,229
Total Segment Cost	Signal Leg + Construction + Preservation + ROW + Culvert + Culvert	\$0 + \$1,197,387 + \$681,754 + \$23,585 + \$34,132 + \$21,229	\$1,958,087

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name :**

**MARSHALL**

**Segment Nbr : 045-639-010**

**Original**

**Current**

Unassigned/Unknown	Municipality	Unassigned/Unknown
0.5	Segment Length	0.5
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
CSAH 4 TO OLD MILL PARK ENTRANCE	Termini	CSAH 4 TO OLD MILL PARK ENTRANCE
90	Present AADT	90
2018	Year of Count	2018
1.1	Projection Factor	1.1
99	Projected Traffic	99
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
1997	Latest Year SA funds	1997
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	0.5 * 435413.5 / 60 * 25 * 1.1	\$99,782
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	0.5 * 2112 * 43.04 / 20 * 25	\$56,813
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	0.5 * 9433.84 / 60 * 25	\$1,965
<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW</b>	<b>\$0 + \$99,782 + \$56,813 + \$1,965</b>	<b>\$158,560</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name :**

**MARSHALL**

**Segment Nbr : 045-640-010**

**Original**

**Current**

Unassigned/Unknown	Municipality	Unassigned/Unknown
0.2	Segment Length	0.2
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
OLD MILL PARK ENTRANCE TO 0.2 MI W	Termini	OLD MILL PARK ENTRANCE TO 0.2 MI W
40	Present AADT	40
2018	Year of Count	2018
1.1	Projection Factor	1.1
44	Projected Traffic	44
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
1979	Latest Year SA funds	1979
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	0.2 * 435413.5 / 60 * 25 * 1.1	\$39,913
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	0.2 * 2112 * 43.04 / 20 * 25	\$22,725
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	0.2 * 9433.84 / 60 * 25	\$786
<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW</b>	<b>\$0 + \$39,913 + \$22,725 + \$786</b>	<b>\$63,424</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name :**

**MARSHALL**

**Segment Nbr : 045-641-010**

**Original**

**Current**

Unassigned/Unknown	Municipality	Unassigned/Unknown
5.9	Segment Length	5.9
AGGREGATE SURF	Existing Surface Type	AGGREGATE SURF
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
TH 220 TO TH 317	Termini	TH 220 TO TH 317
40	Present AADT	40
2018	Year of Count	2018
1.1	Projection Factor	1.1
44	Projected Traffic	44
RURAL	Design Type	RURAL
1 - RURAL : 0 - 149	Design Group	1 ( RURAL : 0 - 149 )
1976	Latest Year SA funds	1976
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	5.9 * 217706.75 / 60 * 25 * 1.1	\$588,715
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	5.9 * 546 * 10.75 / 2 * 25	\$432,876
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	5.9 * 0 / 60 * 25	\$0
<b>Total Segment Cost</b>	<b>Construction + Preservation + ROW</b>	<b>\$588,715 + \$432,876 + \$0</b>	<b>\$1,021,591</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

Status : Original

County Name : **MARSHALL** Segment Nbr : **045-643-010**

Original		Current
Unassigned/Unknown	Municipality	Unassigned/Unknown
2.7	Segment Length	2.7
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
S CO LINE TO CSAH 2	Termini	S CO LINE TO CSAH 2
143	Present AADT	143
2018	Year of Count	2018
1.1	Projection Factor	1.1
157	Projected Traffic	157
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
2010	Latest Year SA funds	2010
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
SAP 45-643-001, 2008 GRADING	Comments	SAP 45-643-001, 2008 GRADING
2010 SURFACING, SAP 45-643-002		2010 SURFACING, SAP 45-643-002
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	2.7 * 435413.5 / 60 * 25 * 1.1	\$538,824
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	2.7 * 2112 * 43.04 / 20 * 25	\$306,789
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	2.7 * 9433.84 / 60 * 25	\$10,613
Total Segment Cost	Signal Leg + Construction + Preservation + ROW	\$0 + \$538,824 + \$306,789 + \$10,613	\$856,226

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name :**

**MARSHALL**

**Segment Nbr : 045-644-010**

**Original**

**Current**

Unassigned/Unknown	Municipality	Unassigned/Unknown
2.4	Segment Length	2.4
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
SO CO LINE TO 0.2 MI SO OF CSAH 2	Termini	SO CO LINE TO 0.2 MI SO OF CSAH 2
145	Present AADT	145
2018	Year of Count	2018
1.1	Projection Factor	1.1
160	Projected Traffic	160
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
2002	Latest Year SA funds	2002
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	2.4 * 435413.5 / 60 * 25 * 1.1	\$478,955
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	2.4 * 2112 * 43.04 / 20 * 25	\$272,701
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	2.4 * 9433.84 / 60 * 25	\$9,434
<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW</b>	<b>\$0 + \$478,955 + \$272,701 + \$9,434</b>	<b>\$761,090</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

Status : Original

County Name : **MARSHALL** Segment Nbr : **045-644-020**

Original		Current
Unassigned/Unknown	Municipality	Unassigned/Unknown
0.2	Segment Length	0.2
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
0.2 MI SO TO CSAH 2	Termini	0.2 MI SO TO CSAH 2
145	Present AADT	145
2018	Year of Count	2018
1.1	Projection Factor	1.1
160	Projected Traffic	160
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
2002	Latest Year SA funds	2002
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Bridge Information**

Status: Original

Original		Current
45538	Structure Number	45538
2.59	Milepoint	2.59
1984	Year Built	1984
THIEF RIVER	Feature Crossed	THIEF RIVER
	Type of Service	
	Number of Spans	
144.1	Bridge Length	144.1
36	Bridge Width	36
100%	Shared Structure	100%
	Comments	
1 ( 0-149 )	Bridge Group Code	1 ( 0-149 )

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	0.2 * 435413.5 / 60 * 25 * 1.1	\$39,913
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	0.2 * 2112 * 43.04 / 20 * 25	\$22,725
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	0.2 * 9433.84 / 60 * 25	\$786
Bridge	BridgeLength * BridgeWidth * UnitCost / BridgeLifeCycle * StatutoryNeedsYear * DevelopmentCost	144.1 * 36 * 173 / 80 * 25 * 1.15	\$322,523
Total Segment Cost	Signal Leg + Construction + Preservation + ROW + Bridge	\$0 + \$39,913 + \$22,725 + \$786 + \$322,523	\$385,947

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name :**

**MARSHALL**

**Segment Nbr : 045-646-010**

**Original**

**Current**

Unassigned/Unknown	Municipality	Unassigned/Unknown
2.5	Segment Length	2.5
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
TH NO 32 TO CSAH 12	Termini	TH NO 32 TO CSAH 12
105	Present AADT	105
2018	Year of Count	2018
1.1	Projection Factor	1.1
116	Projected Traffic	116
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
1994	Latest Year SA funds	1994
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	2.5 * 435413.5 / 60 * 25 * 1.1	\$498,911
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	2.5 * 2112 * 43.04 / 20 * 25	\$284,064
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	2.5 * 9433.84 / 60 * 25	\$9,827
<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW</b>	<b>\$0 + \$498,911 + \$284,064 + \$9,827</b>	<b>\$792,802</b>



SANEEDS - CSAH - Segment Report

Roadway Segment Information

Status : Original

County Name : MARSHALL Segment Nbr : 045-646-020

Original		Current
Unassigned/Unknown	Municipality	Unassigned/Unknown
2.5	Segment Length	2.5
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
CSAH 12 TO 2.5 MI EAST & NORTH	Termini	CSAH 12 TO 2.5 MI EAST & NORTH
85	Present AADT	85
2018	Year of Count	2018
1.1	Projection Factor	1.1
94	Projected Traffic	94
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
2007	Latest Year SA funds	2007
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
CONST 2007 SAP 46-646-04	Comments	CONST 2007 SAP 46-646-04
ENTERED INFO FOR MARSHALL COUNTY FOR EXTENSION OF CSAH 46 (2008) COUNTY MAY MAKE CHANGES IN 2009 UPDATE - DG		ENTERED INFO FOR MARSHALL COUNTY FOR EXTENSION OF CSAH 46 (2008) COUNTY MAY MAKE CHANGES IN 2009 UPDATE - DG
	Interchange Override	
	Segment Override	

Segment Cost Information

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	2.5 * 435413.5 / 60 * 25 * 1.1	\$498,911
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	2.5 * 2112 * 43.04 / 20 * 25	\$284,064
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	2.5 * 9433.84 / 60 * 25	\$9,827
Total Segment Cost	Signal Leg + Construction + Preservation + ROW	\$0 + \$498,911 + \$284,064 + \$9,827	\$792,802

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name : MARSHALL Segment Nbr : 045-646-030**

Original		Current
Unassigned/Unknown	Municipality	Unassigned/Unknown
4.6	Segment Length	4.6
AGGREGATE SURF	Existing Surface Type	AGGREGATE SURF
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
2.5 MI EAST & NORTH OF CSAH 12 TO CSAH 6	Termini	2.5 MI EAST & NORTH OF CSAH 12 TO CSAH 6
50	Present AADT	50
2018	Year of Count	2018
1.1	Projection Factor	1.1
55	Projected Traffic	55
RURAL	Design Type	RURAL
1 - RURAL : 0 - 149	Design Group	1 ( RURAL : 0 - 149 )
	Latest Year SA funds	
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
ENTERED INFO FOR MARSHALL COUNTY FOR EXTENSION OF CSAH 46 (2008) COUNTY MAY MAKE CHANGES IN 2009 UPDATE - DG	Comments	ENTERED INFO FOR MARSHALL COUNTY FOR EXTENSION OF CSAH 46 (2008) COUNTY MAY MAKE CHANGES IN 2009 UPDATE - DG
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	4.6 * 217706.75 / 60 * 25 * 1.1	\$458,998
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	4.6 * 546 * 10.75 / 2 * 25	\$337,496
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	4.6 * 0 / 60 * 25	\$0
<b>Total Segment Cost</b>	<b>Construction + Preservation + ROW</b>	<b>\$458,998 + \$337,496 + \$0</b>	<b>\$796,494</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name :**

**MARSHALL**

**Segment Nbr : 045-647-010**

**Original**

**Current**

MIDDLE RIVER	Municipality	MIDDLE RIVER
0.43	Segment Length	0.43
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
TH 32 TO E LIM MIDDLE RIVER	Termini	TH 32 TO E LIM MIDDLE RIVER
150	Present AADT	150
2018	Year of Count	2018
1.1	Projection Factor	1.1
165	Projected Traffic	165
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
1993	Latest Year SA funds	1993
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	0.43 * 435413.5 / 60 * 25 * 1.1	\$85,813
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	0.43 * 2112 * 43.04 / 20 * 25	\$48,859
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	0.43 * 9433.84 / 60 * 25	\$1,690
<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW</b>	<b>\$0 + \$85,813 + \$48,859 + \$1,690</b>	<b>\$136,362</b>

SANEEDS - CSAH - Segment Report

Roadway Segment Information

Status : Original

County Name : MARSHALL Segment Nbr : 045-647-020

Original		Current
Unassigned/Unknown	Municipality	Unassigned/Unknown
1.6	Segment Length	1.6
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
E LIM MIDDLE RIVER TO CSAH 12	Termini	E LIM MIDDLE RIVER TO CSAH 12
150	Present AADT	150
2018	Year of Count	2018
1.1	Projection Factor	1.1
165	Projected Traffic	165
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
1993	Latest Year SA funds	1993
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

Culvert Information

Status: Original

Original		Current
92906	Structure Number	92906
0.75	Milepoint	0.75
1972	Year Built	1972
MIDDLE RIVER	Feature Crossed	MIDDLE RIVER
	Type of Service	
1	Number of Barrels	1
14	Culvert Width	14
8	Culvert Height	8
60	Culvert Length	60
82.00046659	Area of Waterway Opening	82.00046659
100%	Shared Structure	100%
	Comments	
1	Culvert Group Code	1

Segment Cost Information

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	1.6 * 435413.5 / 60 * 25 * 1.1	\$319,303
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	1.6 * 2112 * 43.04 / 20 * 25	\$181,801
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	1.6 * 9433.84 / 60 * 25	\$6,289
Culvert	CulvertLength * Area * UnitCost / CulvertLifeCycle * StatutoryNeedsYear * DevelopmentCost	60 * 82.00046659 * 18.01 / 100 * 25 * 1.15	\$25,475
Total Segment Cost	Signal Leg + Construction + Preservation + ROW + Culvert	\$0 + \$319,303 + \$181,801 + \$6,289 + \$25,475	\$532,868

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name :**

**MARSHALL**

**Segment Nbr : 045-648-010**

**Original**

**Current**

Unassigned/Unknown	Municipality	Unassigned/Unknown
8.6	Segment Length	8.6
AGGREGATE SURF	Existing Surface Type	AGGREGATE SURF
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
CSAH 6 TO CR 126	Termini	CSAH 6 TO CR 126
120	Present AADT	120
2018	Year of Count	2018
1.1	Projection Factor	1.1
132	Projected Traffic	132
RURAL	Design Type	RURAL
1 - RURAL : 0 - 149	Design Group	1 ( RURAL : 0 - 149 )
1994	Latest Year SA funds	1994
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	8.6 * 217706.75 / 60 * 25 * 1.1	\$858,127
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	8.6 * 546 * 10.75 / 2 * 25	\$630,971
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	8.6 * 0 / 60 * 25	\$0
<b>Total Segment Cost</b>	<b>Construction + Preservation + ROW</b>	<b>\$858,127 + \$630,971 + \$0</b>	<b>\$1,489,098</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

Status : Original

County Name : **MARSHALL** Segment Nbr : 045-648-031

Original		Current
Unassigned/Unknown	Municipality	Unassigned/Unknown
7.2	Segment Length	7.2
AGGREGATE SURF	Existing Surface Type	AGGREGATE SURF
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
CO RD 126 7.2 MI. EAST	Termini	CO RD 126 7.2 MI. EAST
40	Present AADT	40
2018	Year of Count	2018
1.1	Projection Factor	1.1
44	Projected Traffic	44
RURAL	Design Type	RURAL
1 - RURAL : 0 - 149	Design Group	1 ( RURAL : 0 - 149 )
1984	Latest Year SA funds	1984
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Culvert Information**

Status: Original

Original		Current
93688	Structure Number	93688
12.79	Milepoint	12.79
1984	Year Built	1984
JUD DITCH # 21	Feature Crossed	JUD DITCH # 21
	Type of Service	
1	Number of Barrels	1
12	Culvert Width	12
6	Culvert Height	6
64	Culvert Length	64
71.9997271	Area of Waterway Opening	71.9997271
100%	Shared Structure	100%
	Comments	
1	Culvert Group Code	1

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	7.2 * 217706.75 / 60 * 25 * 1.1	\$718,432
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	7.2 * 546 * 10.75 / 2 * 25	\$528,255
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	7.2 * 0 / 60 * 25	\$0
Culvert	CulvertLength * Area * UnitCost / CulvertLifeCycle * StatutoryNeedsYear * DevelopmentCost	64 * 71.9997271 * 18.01 / 100 * 25 * 1.15	\$23,860
Total Segment Cost	Construction + Preservation + ROW + Culvert	\$718,432 + \$528,255 + \$0 + \$23,860	\$1,270,547

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

Status : Original

County Name : **MARSHALL** Segment Nbr : **045-648-040**

Original		Current
Unassigned/Unknown	Municipality	Unassigned/Unknown
6.7	Segment Length	6.7
AGGREGATE SURF	Existing Surface Type	AGGREGATE SURF
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
7.2 MI E OF CO RD 126 TO TH 89	Termini	7.2 MI E OF CO RD 126 TO TH 89
40	Present AADT	40
2018	Year of Count	2018
1.1	Projection Factor	1.1
44	Projected Traffic	44
RURAL	Design Type	RURAL
1 - RURAL : 0 - 149	Design Group	1 ( RURAL : 0 - 149 )
1987	Latest Year SA funds	1987
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Culvert Information**

Status: Original

Original		Current
96386	Structure Number	96386
18.648	Milepoint	18.648
1986	Year Built	1986
JUD DITCH # 21	Feature Crossed	JUD DITCH # 21
	Type of Service	
2	Number of Barrels	2
14	Culvert Width	14
8	Culvert Height	8
74	Culvert Length	74
162.99989048	Area of Waterway Opening	162.99989048
100%	Shared Structure	100%
	Comments	
1	Culvert Group Code	1

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	6.7 * 217706.75 / 60 * 25 * 1.1	\$668,541
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	6.7 * 546 * 10.75 / 2 * 25	\$491,571
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	6.7 * 0 / 60 * 25	\$0
Culvert	CulvertLength * Area * UnitCost / CulvertLifeCycle * StatutoryNeedsYear * DevelopmentCost	74 * 162.99989048 * 18.01 / 100 * 25 * 1.15	\$62,455
Total Segment Cost	Construction + Preservation + ROW + Culvert	\$668,541 + \$491,571 + \$0 + \$62,455	\$1,222,567

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

Status : Original

County Name : **MARSHALL** Segment Nbr : **045-649-010**

Original		Current
Unassigned/Unknown	Municipality	Unassigned/Unknown
6.7	Segment Length	6.7
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
CSAH 6 TO 0.50 MI S OF THE NO CO LINE	Termini	CSAH 6 TO 0.50 MI S OF THE NO CO LINE
90	Present AADT	90
2018	Year of Count	2018
1.1	Projection Factor	1.1
99	Projected Traffic	99
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
1996	Latest Year SA funds	1996
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Bridge Information**

Status: Original

Original		Current
45549	Structure Number	45549
3.325	Milepoint	3.325
1994	Year Built	1994
THIEF RIVER	Feature Crossed	THIEF RIVER
STREAM CROSSING	Type of Service	STREAM CROSSING
3	Number of Spans	3
86.9	Bridge Length	86.9
36	Bridge Width	36
100%	Shared Structure	100%
	Comments	
1 ( 0-149 )	Bridge Group Code	1 ( 0-149 )

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	6.7 * 435413.5 / 60 * 25 * 1.1	\$1,337,082
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	6.7 * 2112 * 43.04 / 20 * 25	\$761,292
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	6.7 * 9433.84 / 60 * 25	\$26,336
Bridge	BridgeLength * BridgeWidth * UnitCost / BridgeLifeCycle * StatutoryNeedsYear * DevelopmentCost	86.9 * 36 * 173 / 80 * 25 * 1.15	\$194,498
Total Segment Cost	Signal Leg + Construction + Preservation + ROW + Bridge	\$0 + \$1,337,082 + \$761,292 + \$26,336 + \$194,498	\$2,319,208



**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name :**

**MARSHALL**

**Segment Nbr : 045-649-020**

**Original**

**Current**

Unassigned/Unknown	Municipality	Unassigned/Unknown
0.5	Segment Length	0.5
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
0.50 MI S TO THE NO CO LINE	Termini	0.50 MI S TO THE NO CO LINE
115	Present AADT	115
2018	Year of Count	2018
1.1	Projection Factor	1.1
127	Projected Traffic	127
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
2003	Latest Year SA funds	2003
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	$TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear$	$0 * 61250 / 40 * 25$	\$0
Construction	$Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost$	$0.5 * 435413.5 / 60 * 25 * 1.1$	\$99,782
Preservation	$Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear$	$0.5 * 2112 * 43.04 / 20 * 25$	\$56,813
ROW	$Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear$	$0.5 * 9433.84 / 60 * 25$	\$1,965
<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW</b>	<b>\$0 + \$99,782 + \$56,813 + \$1,965</b>	<b>\$158,560</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name :**

**MARSHALL**

**Segment Nbr : 045-650-010**

**Original**

**Current**

Unassigned/Unknown	Municipality	Unassigned/Unknown
1	Segment Length	1
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
CSAH 19 TO SO LIM ARGYLE	Termini	CSAH 19 TO SO LIM ARGYLE
135	Present AADT	135
2018	Year of Count	2018
1.1	Projection Factor	1.1
149	Projected Traffic	149
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
1991	Latest Year SA funds	1991
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	1 * 435413.5 / 60 * 25 * 1.1	\$199,565
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	1 * 2112 * 43.04 / 20 * 25	\$113,626
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	1 * 9433.84 / 60 * 25	\$3,931
<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW</b>	<b>\$0 + \$199,565 + \$113,626 + \$3,931</b>	<b>\$317,122</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name : MARSHALL Segment Nbr : 045-650-020**

Original		Current
ARGYLE	Municipality	ARGYLE
0.5	Segment Length	0.5
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
SO LIM ARGYLE TO CSAH 57	Termini	SO LIM ARGYLE TO CSAH 57
295	Present AADT	295
2018	Year of Count	2018
1.1	Projection Factor	1.1
325	Projected Traffic	325
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
1991	Latest Year SA funds	1991
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	$TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear$	$0 * 61250 / 40 * 25$	\$0
Construction	$Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost$	$0.5 * 435413.5 / 60 * 25 * 1.1$	\$99,782
Preservation	$Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear$	$0.5 * 2112 * 43.04 / 20 * 25$	\$56,813
ROW	$Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear$	$0.5 * 9433.84 / 60 * 25$	\$1,965
<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW</b>	<b>\$0 + \$99,782 + \$56,813 + \$1,965</b>	<b>\$158,560</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name :**

**MARSHALL**

**Segment Nbr : 045-651-010**

**Original**

**Current**

Unassigned/Unknown	Municipality	Unassigned/Unknown
1.5	Segment Length	1.5
AGGREGATE SURF	Existing Surface Type	AGGREGATE SURF
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
S CO LINE TO CSAH 2	Termini	S CO LINE TO CSAH 2
30	Present AADT	30
2018	Year of Count	2018
1.1	Projection Factor	1.1
33	Projected Traffic	33
RURAL	Design Type	RURAL
1 - RURAL : 0 - 149	Design Group	1 ( RURAL : 0 - 149 )
1992	Latest Year SA funds	1992
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	1.5 * 217706.75 / 60 * 25 * 1.1	\$149,673
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	1.5 * 546 * 10.75 / 2 * 25	\$110,053
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	1.5 * 0 / 60 * 25	\$0
<b>Total Segment Cost</b>	<b>Construction + Preservation + ROW</b>	<b>\$149,673 + \$110,053 + \$0</b>	<b>\$259,726</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name :**

**MARSHALL**

**Segment Nbr : 045-652-010**

**Original**

**Current**

Unassigned/Unknown	Municipality	Unassigned/Unknown
1.5	Segment Length	1.5
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
SO CO LINE TO CSAH 2	Termini	SO CO LINE TO CSAH 2
90	Present AADT	90
2018	Year of Count	2018
1.1	Projection Factor	1.1
99	Projected Traffic	99
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
2000	Latest Year SA funds	2000
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	1.5 * 435413.5 / 60 * 25 * 1.1	\$299,347
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	1.5 * 2112 * 43.04 / 20 * 25	\$170,438
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	1.5 * 9433.84 / 60 * 25	\$5,896
<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW</b>	<b>\$0 + \$299,347 + \$170,438 + \$5,896</b>	<b>\$475,681</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name :**

**MARSHALL**

**Segment Nbr : 045-653-010**

**Original**

**Current**

Unassigned/Unknown	Municipality	Unassigned/Unknown
5.5	Segment Length	5.5
AGGREGATE SURF	Existing Surface Type	AGGREGATE SURF
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
CSAH 2 TO TH 89	Termini	CSAH 2 TO TH 89
30	Present AADT	30
2018	Year of Count	2018
1.1	Projection Factor	1.1
33	Projected Traffic	33
RURAL	Design Type	RURAL
1 - RURAL : 0 - 149	Design Group	1 ( RURAL : 0 - 149 )
2000	Latest Year SA funds	2000
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	5.5 * 217706.75 / 60 * 25 * 1.1	\$548,802
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	5.5 * 546 * 10.75 / 2 * 25	\$403,528
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	5.5 * 0 / 60 * 25	\$0
<b>Total Segment Cost</b>	<b>Construction + Preservation + ROW</b>	<b>\$548,802 + \$403,528 + \$0</b>	<b>\$952,330</b>

SANEEDS - CSAH - Segment Report

Roadway Segment Information

Status : Original

County Name : MARSHALL Segment Nbr : 045-653-020

Original		Current
Unassigned/Unknown	Municipality	Unassigned/Unknown
4.3	Segment Length	4.3
AGGREGATE SURF	Existing Surface Type	AGGREGATE SURF
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
TH 89 TO 4.3 MI N	Termini	TH 89 TO 4.3 MI N
90	Present AADT	90
2018	Year of Count	2018
1.1	Projection Factor	1.1
99	Projected Traffic	99
RURAL	Design Type	RURAL
1 - RURAL : 0 - 149	Design Group	1 ( RURAL : 0 - 149 )
2012	Latest Year SA funds	2012
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
2012 SP 045-653-004 CULVERT #45J45	Comments	2012 SP 045-653-004 CULVERT #45J45
	Interchange Override	
	Segment Override	

Culvert Information

Status: Original

Original		Current
45J45	Structure Number	45J45
6.19	Milepoint	6.19
2012	Year Built	2012
MUD RIVER	Feature Crossed	MUD RIVER
	Type of Service	
3	Number of Barrels	3
12	Culvert Width	12
10	Culvert Height	10
54	Culvert Length	54
360	Area of Waterway Opening	360
100%	Shared Structure	100%
2012 SP 045-653-004	Comments	2012 SP 045-653-004
1	Culvert Group Code	1

Segment Cost Information

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	4.3 * 217706.75 / 60 * 25 * 1.1	\$429,064
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	4.3 * 546 * 10.75 / 2 * 25	\$315,486
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	4.3 * 0 / 60 * 25	\$0
Culvert	CulvertLength * Area * UnitCost / CulvertLifeCycle * StatutoryNeedsYear * DevelopmentCost	54 * 360 * 18.01 / 100 * 25 * 1.15	\$100,658
Total Segment Cost	Construction + Preservation + ROW + Culvert	\$429,064 + \$315,486 + \$0 + \$100,658	\$845,208

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name :**

**MARSHALL**

**Segment Nbr : 045-653-030**

**Original**

**Current**

Unassigned/Unknown	Municipality	Unassigned/Unknown
1.1	Segment Length	1.1
AGGREGATE SURF	Existing Surface Type	AGGREGATE SURF
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
4.3 MI N TO 5.4 MI N OF S JCT TH 89	Termini	4.3 MI N TO 5.4 MI N OF S JCT TH 89
25	Present AADT	25
2018	Year of Count	2018
1.1	Projection Factor	1.1
28	Projected Traffic	28
RURAL	Design Type	RURAL
1 - RURAL : 0 - 149	Design Group	1 ( RURAL : 0 - 149 )
1992	Latest Year SA funds	1992
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	1.1 * 217706.75 / 60 * 25 * 1.1	\$109,760
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	1.1 * 546 * 10.75 / 2 * 25	\$80,706
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	1.1 * 0 / 60 * 25	\$0
Total Segment Cost	Construction + Preservation + ROW	\$109,760 + \$80,706 + \$0	\$190,466



**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name :**

**MARSHALL**

**Segment Nbr : 045-653-031**

**Original**

**Current**

Unassigned/Unknown	Municipality	Unassigned/Unknown
4.2	Segment Length	4.2
AGGREGATE SURF	Existing Surface Type	AGGREGATE SURF
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
5.4 MI N OF S JCT TH 89 TO CSAH	Termini	5.4 MI N OF S JCT TH 89 TO CSAH
6		6
25	Present AADT	25
2018	Year of Count	2018
1.1	Projection Factor	1.1
28	Projected Traffic	28
RURAL	Design Type	RURAL
1 - RURAL : 0 - 149	Design Group	1 ( RURAL : 0 - 149 )
1992	Latest Year SA funds	1992
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	4.2 * 217706.75 / 60 * 25 * 1.1	\$419,085
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	4.2 * 546 * 10.75 / 2 * 25	\$308,149
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	4.2 * 0 / 60 * 25	\$0
Total Segment Cost	Construction + Preservation + ROW	\$419,085 + \$308,149 + \$0	\$727,234

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name : MARSHALL Segment Nbr : 045-654-020**

Original		Current
Unassigned/Unknown	Municipality	Unassigned/Unknown
8.5	Segment Length	8.5
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
SOUTH CO LINE TO S LIM GRYGLA	Termini	SOUTH CO LINE TO S LIM GRYGLA
455	Present AADT	455
2018	Year of Count	2018
1.1	Projection Factor	1.1
501	Projected Traffic	501
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
2007	Latest Year SA funds	2007
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
SP 45-654-15 TIED W/PENNINGTON	Comments	SP 45-654-15 TIED W/PENNINGTON
	Interchange Override	
	Segment Override	

**Culvert Information**

**Status: Original**

Original		Current
45J26	Structure Number	45J26
3.47	Milepoint	3.47
2001	Year Built	2001
Co Ditch # 20	Feature Crossed	Co Ditch # 20
OTHER	Type of Service	OTHER
2	Number of Barrels	2
	Culvert Width	
	Culvert Height	
60	Culvert Length	60
240.00052552	Area of Waterway Opening	240.00052552
100%	Shared Structure	100%
	Comments	
1	Culvert Group Code	1

**Culvert Information**

**Status: Original**

Original		Current
45J41	Structure Number	45J41
5.49	Milepoint	5.49
2007	Year Built	2007
JD # 11	Feature Crossed	JD # 11
STREAM CROSSING	Type of Service	STREAM CROSSING
2	Number of Barrels	2
8	Culvert Width	8
6	Culvert Height	6
60	Culvert Length	60
95.99999493	Area of Waterway Opening	95.99999493
100%	Shared Structure	100%
	Comments	
1	Culvert Group Code	1

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	8.5 * 435413.5 / 60 * 25 * 1.1	\$1,696,298
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	8.5 * 2112 * 43.04 / 20 * 25	\$965,818
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	8.5 * 9433.84 / 60 * 25	\$33,412
Culvert	CulvertLength * Area * UnitCost / CulvertLifeCycle * StatutoryNeedsYear * DevelopmentCost	60 * 240.00052552 * 18.01 / 100 * 25 * 1.15	\$74,562
Culvert	CulvertLength * Area * UnitCost / CulvertLifeCycle * StatutoryNeedsYear * DevelopmentCost	60 * 95.99999493 * 18.01 / 100 * 25 * 1.15	\$29,825
Total Segment Cost	Signal Leg + Construction + Preservation + ROW + Culvert + Culvert	\$0 + \$1,696,298 + \$965,818 + \$33,412 + \$74,562 + \$29,825	\$2,799,915

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name :**

**MARSHALL**

**Segment Nbr : 045-654-030**

**Original**

**Current**

GRYGLA	Municipality	GRYGLA
0.13	Segment Length	0.13
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
S LIM GRYGLA TO TH 89	Termini	S LIM GRYGLA TO TH 89
445	Present AADT	445
2018	Year of Count	2018
1.1	Projection Factor	1.1
490	Projected Traffic	490
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
2007	Latest Year SA funds	2007
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
SP 45-654-15	Comments	SP 45-654-15
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	0.13 * 435413.5 / 60 * 25 * 1.1	\$25,943
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	0.13 * 2112 * 43.04 / 20 * 25	\$14,771
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	0.13 * 9433.84 / 60 * 25	\$511
<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW</b>	<b>\$0 + \$25,943 + \$14,771 + \$511</b>	<b>\$41,225</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

Status : Original

County Name : **MARSHALL** Segment Nbr : 045-654-040

Original		Current
GRYGLA	Municipality	GRYGLA
0.21	Segment Length	0.21
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
TH 89 TO NO CORP LIM GRYGLA	Termini	TH 89 TO NO CORP LIM GRYGLA
630	Present AADT	630
2018	Year of Count	2018
1.1	Projection Factor	1.1
693	Projected Traffic	693
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
2003	Latest Year SA funds	2003
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Bridge Information**

Status: Original

Original		Current
45556	Structure Number	45556
9.17	Milepoint	9.17
1995	Year Built	1995
MUD RIVER	Feature Crossed	MUD RIVER
STREAM CROSSING	Type of Service	STREAM CROSSING
3	Number of Spans	3
76	Bridge Length	76
44	Bridge Width	44
100%	Shared Structure	100%
	Comments	
1 ( 0-149 )	Bridge Group Code	1 ( 0-149 )

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	0.21 * 435413.5 / 60 * 25 * 1.1	\$41,909
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	0.21 * 2112 * 43.04 / 20 * 25	\$23,861
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	0.21 * 9433.84 / 60 * 25	\$825
Bridge	BridgeLength * BridgeWidth * UnitCost / BridgeLifeCycle * StatutoryNeedsYear * DevelopmentCost	76 * 44 * 173 / 80 * 25 * 1.15	\$207,903
Total Segment Cost	Signal Leg + Construction + Preservation + ROW + Bridge	\$0 + \$41,909 + \$23,861 + \$825 + \$207,903	\$274,498

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name : MARSHALL Segment Nbr : 045-654-050**

Original		Current
Unassigned/Unknown	Municipality	Unassigned/Unknown
2.5	Segment Length	2.5
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
NO CORP LIM GRYGLA TO CSAH	Termini	NO CORP LIM GRYGLA TO CSAH
55		55
480	Present AADT	480
2018	Year of Count	2018
1.1	Projection Factor	1.1
528	Projected Traffic	528
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
2007	Latest Year SA funds	2007
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
GRADE WIDENING SAP 45-654-13	Comments	GRADE WIDENING SAP 45-654-13
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	2.5 * 435413.5 / 60 * 25 * 1.1	\$498,911
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	2.5 * 2112 * 43.04 / 20 * 25	\$284,064
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	2.5 * 9433.84 / 60 * 25	\$9,827
<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW</b>	<b>\$0 + \$498,911 + \$284,064 + \$9,827</b>	<b>\$792,802</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name : MARSHALL Segment Nbr : 045-654-051**

Original		Current
Unassigned/Unknown	Municipality	Unassigned/Unknown
1.8	Segment Length	1.8
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
CSAH 55 TO 1.8 MI NO	Termini	CSAH 55 TO 1.8 MI NO
480	Present AADT	480
2018	Year of Count	2018
1.1	Projection Factor	1.1
528	Projected Traffic	528
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
2007	Latest Year SA funds	2007
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
GRADE WIDENING SAP 45-654-13	Comments	GRADE WIDENING SAP 45-654-13
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	1.8 * 435413.5 / 60 * 25 * 1.1	\$359,216
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	1.8 * 2112 * 43.04 / 20 * 25	\$204,526
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	1.8 * 9433.84 / 60 * 25	\$7,075
<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW</b>	<b>\$0 + \$359,216 + \$204,526 + \$7,075</b>	<b>\$570,817</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name :**

**MARSHALL**

**Segment Nbr : 045-654-060**

**Original**

**Current**

Unassigned/Unknown	Municipality	Unassigned/Unknown
0.9	Segment Length	0.9
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
1.8 MI N OF CSAH 55 TO E CO LINE	Termini	1.8 MI N OF CSAH 55 TO E CO LINE
480	Present AADT	480
2018	Year of Count	2018
1.1	Projection Factor	1.1
528	Projected Traffic	528
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
2003	Latest Year SA funds	2003
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	0.9 * 435413.5 / 60 * 25 * 1.1	\$179,608
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	0.9 * 2112 * 43.04 / 20 * 25	\$102,263
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	0.9 * 9433.84 / 60 * 25	\$3,538
<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW</b>	<b>\$0 + \$179,608 + \$102,263 + \$3,538</b>	<b>\$285,409</b>



**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name : MARSHALL Segment Nbr : 045-654-070**

Original		Current
Unassigned/Unknown	Municipality	Unassigned/Unknown
5	Segment Length	5
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
E CO LINE TO MOOSE RIVER	Termini	E CO LINE TO MOOSE RIVER
480	Present AADT	480
2018	Year of Count	2018
1.1	Projection Factor	1.1
528	Projected Traffic	528
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
2003	Latest Year SA funds	2003
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
SHOULDER GRADING ONLY IN 2009. SAP045-654-017	Comments	SHOULDER GRADING ONLY IN 2009. SAP045-654-017
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	5 * 435413.5 / 60 * 25 * 1.1	\$997,823
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	5 * 2112 * 43.04 / 20 * 25	\$568,128
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	5 * 9433.84 / 60 * 25	\$19,654
<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW</b>	<b>\$0 + \$997,823 + \$568,128 + \$19,654</b>	<b>\$1,585,605</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

Status : Original

County Name : **MARSHALL** Segment Nbr : **045-654-080**

Original		Current
Unassigned/Unknown	Municipality	Unassigned/Unknown
0.7	Segment Length	0.7
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
MOOSE RIVER TO 0.70 MI NO	Termini	MOOSE RIVER TO 0.70 MI NO
480	Present AADT	480
2018	Year of Count	2018
1.1	Projection Factor	1.1
528	Projected Traffic	528
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
2003	Latest Year SA funds	2003
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Culvert Information**

Status: Original

Original		Current
91578	Structure Number	91578
19.37	Milepoint	19.37
1978	Year Built	1978
MOOSE RIVER (JD #21)	Feature Crossed	MOOSE RIVER (JD #21)
	Type of Service	
3	Number of Barrels	3
10	Culvert Width	10
10	Culvert Height	10
37.5	Culvert Length	37.5
299.99958051	Area of Waterway Opening	299.99958051
50%	Shared Structure	50%
	Comments	
1	Culvert Group Code	1

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	0.7 * 435413.5 / 60 * 25 * 1.1	\$139,695
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	0.7 * 2112 * 43.04 / 20 * 25	\$79,538
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	0.7 * 9433.84 / 60 * 25	\$2,752
Culvert	CulvertLength * Area * UnitCost / CulvertLifeCycle * StatutoryNeedsYear * DevelopmentCost * PercentOfCost	37.5 * 299.99958051 * 18.01 / 100 * 25 * 1.15 * 50%	\$29,126

<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW + Culvert</b>	<b>\$0 + \$139,695 + \$79,538 + \$2,752 + \$29,126</b>	<b>\$251,111</b>
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**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

Status : Original

County Name :

**MARSHALL**

Segment Nbr : 045-655-010

**Original**

**Current**

Unassigned/Unknown	Municipality	Unassigned/Unknown
1	Segment Length	1
AGGREGATE SURF	Existing Surface Type	AGGREGATE SURF
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
CSAH 54 TO E CO LINE	Termini	CSAH 54 TO E CO LINE
70	Present AADT	70
2018	Year of Count	2018
1.1	Projection Factor	1.1
77	Projected Traffic	77
RURAL	Design Type	RURAL
1 - RURAL : 0 - 149	Design Group	1 ( RURAL : 0 - 149 )
2000	Latest Year SA funds	2000
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	1 * 217706.75 / 60 * 25 * 1.1	\$99,782
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	1 * 546 * 10.75 / 2 * 25	\$73,369
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	1 * 0 / 60 * 25	\$0
Total Segment Cost	Construction + Preservation + ROW	\$99,782 + \$73,369 + \$0	\$173,151

SANEEDS - CSAH - Segment Report

Roadway Segment Information

Status : Original

County Name : MARSHALL Segment Nbr : 045-656-010

Original		Current
ALVARADO	Municipality	ALVARADO
0.24	Segment Length	0.24
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
3RD ST TO TH 1	Termini	3RD ST TO TH 1
285	Present AADT	285
2018	Year of Count	2018
1.1	Projection Factor	1.1
314	Projected Traffic	314
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
2008	Latest Year SA funds	2008
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
COMBINED WITH 011 IN 2005	Comments	COMBINED WITH 011 IN 2005
SAP 45-656-003, 2008, OVERLAY		SAP 45-656-003, 2008, OVERLAY
	Interchange Override	
	Segment Override	

RailRoadCrossing Information

Status: Original

Original		Current
CANADIAN PACIFIC RAILWAY	RailRoad Name	CANADIAN PACIFIC RAILWAY
696227R	USDOT Number	696227R
0.18	Located at Milepoint	0.18
1	Mainline Tracks	1
SIGNS ONLY	Protection Type	SIGNS ONLY
	Last Year Protection Upgraded	
48	Crossing Length	48
	Last Year Surfaced	
100%	Percentage of Cost	100%
	Comments	

Segment Cost Information

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	0.24 * 435413.5 / 60 * 25 * 1.1	\$47,895
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	0.24 * 2112 * 43.04 / 20 * 25	\$27,270
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	0.24 * 9433.84 / 60 * 25	\$943
RR Crossing Protection	UnitCost / RRCrossingLifeCycle * StatutoryNeedsYear	2000 / 25 * 25	\$2,000
RR Crossing Surface	SurfaceLength * UnitCost / RRCrossingLifeCycle * StatutoryNeedsYear	48 * 1750 / 25 * 25	\$84,000

<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW + RR Crossing Protection + RR Crossing Surface</b>	<b>\$0 + \$47,895 + \$27,270 + \$943 + \$2,000 + \$84,000</b>	<b>\$162,108</b>
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**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name :**

**MARSHALL**

**Segment Nbr : 045-656-020**

**Original**

**Current**

ALVARADO	Municipality	ALVARADO
0.14	Segment Length	0.14
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
TH 220 TO MARSHALL ST	Termini	TH 220 TO MARSHALL ST
230	Present AADT	230
2018	Year of Count	2018
1.1	Projection Factor	1.1
253	Projected Traffic	253
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
2008	Latest Year SA funds	2008
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
SAP 45-656-003, 2008, OVERLAY	Comments	SAP 45-656-003, 2008, OVERLAY
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	0.14 * 435413.5 / 60 * 25 * 1.1	\$27,939
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	0.14 * 2112 * 43.04 / 20 * 25	\$15,908
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	0.14 * 9433.84 / 60 * 25	\$550
<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW</b>	<b>\$0 + \$27,939 + \$15,908 + \$550</b>	<b>\$44,397</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

Status : Original

County Name : **MARSHALL** Segment Nbr : 045-657-010

Original		Current
ARGYLE	Municipality	ARGYLE
0.54	Segment Length	0.54
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
W LIM ARGYLE TO TH 75	Termini	W LIM ARGYLE TO TH 75
830	Present AADT	830
2018	Year of Count	2018
1.1	Projection Factor	1.1
913	Projected Traffic	913
URBAN	Design Type	URBAN
5 - URBAN : 0 - 9999	Design Group	5 ( URBAN : 0 - 9999 )
1987	Latest Year SA funds	1987
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
COMBINED WITH 020 IN 2005	Comments	COMBINED WITH 020 IN 2005
	Interchange Override	
	Segment Override	

**RailRoadCrossing Information**

Status: Original

Original		Current
BURLINGTON NORTHERN SANTA FE RAILWAY	RailRoad Name	BURLINGTON NORTHERN SANTA FE RAILWAY
081400P	USDOT Number	081400P
0.11	Located at Milepoint	0.11
1	Mainline Tracks	1
SIGNALS & GATES	Protection Type	SIGNALS & GATES
1980	Last Year Protection Upgraded	1980
64	Crossing Length	64
	Last Year Surfaced	
100%	Percentage of Cost	100%
	Comments	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	0.54 * 2789799.78 / 60 * 25 * 1.15	\$721,861
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	0.54 * 2904 * 43.04 / 15 * 25	\$112,489
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	0.54 * 94238.2 / 60 * 25	\$21,204
RR Crossing Protection	UnitCost / RRCrossingLifeCycle * StatutoryNeedsYear	350000 / 25 * 25	\$350,000
RR Crossing Surface	SurfaceLength * UnitCost / RRCrossingLifeCycle * StatutoryNeedsYear	64 * 1750 / 25 * 25	\$112,000
Total Segment Cost	Signal Leg + Construction + Preservation + ROW + RR Crossing Protection + RR Crossing Surface	\$0 + \$721,861 + \$112,489 + \$21,204 + \$350,000 + \$112,000	\$1,317,554



**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name : MARSHALL Segment Nbr : 045-658-010**

Original		Current
GRYGLA	Municipality	GRYGLA
0.15	Segment Length	0.15
BIT CONC OR ASPH	Existing Surface Type	BIT CONC OR ASPH
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
WOODROW & MAIN TO VALLEY & MAIN	Termini	WOODROW & MAIN TO VALLEY & MAIN
190	Present AADT	190
2018	Year of Count	2018
1.1	Projection Factor	1.1
209	Projected Traffic	209
URBAN	Design Type	URBAN
5 - URBAN : 0 - 9999	Design Group	5 ( URBAN : 0 - 9999 )
1999	Latest Year SA funds	1999
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	0.15 * 2789799.78 / 60 * 25 * 1.15	\$200,517
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	0.15 * 2904 * 43.04 / 15 * 25	\$31,247
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	0.15 * 94238.2 / 60 * 25	\$5,890
<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW</b>	<b>\$0 + \$200,517 + \$31,247 + \$5,890</b>	<b>\$237,654</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name : MARSHALL Segment Nbr : 045-658-015**

Original		Current
GRYGLA	Municipality	GRYGLA
0.14	Segment Length	0.14
BIT CONC OR ASPH	Existing Surface Type	BIT CONC OR ASPH
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
FROM CSAH 54 & BELTRAMI ST. TO MAIN AVE. & BELTRAMI ST.	Termini	FROM CSAH 54 & BELTRAMI ST. TO MAIN AVE. & BELTRAMI ST.
190	Present AADT	190
2018	Year of Count	2018
1.1	Projection Factor	1.1
209	Projected Traffic	209
URBAN	Design Type	URBAN
5 - URBAN : 0 - 9999	Design Group	5 ( URBAN : 0 - 9999 )
1999	Latest Year SA funds	1999
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	0.14 * 2789799.78 / 60 * 25 * 1.15	\$187,149
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	0.14 * 2904 * 43.04 / 15 * 25	\$29,164
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	0.14 * 94238.2 / 60 * 25	\$5,497
<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW</b>	<b>\$0 + \$187,149 + \$29,164 + \$5,497</b>	<b>\$221,810</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name : MARSHALL Segment Nbr : 045-658-020**

Original		Current
GRYGLA	Municipality	GRYGLA
0.15	Segment Length	0.15
BIT CONC OR ASPH	Existing Surface Type	BIT CONC OR ASPH
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
VALLEY & MAIN TO FLADLAND & STATE	Termini	VALLEY & MAIN TO FLADLAND & STATE
315	Present AADT	315
2018	Year of Count	2018
1.1	Projection Factor	1.1
347	Projected Traffic	347
URBAN	Design Type	URBAN
5 - URBAN : 0 - 9999	Design Group	5 ( URBAN : 0 - 9999 )
1999	Latest Year SA funds	1999
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	0.15 * 2789799.78 / 60 * 25 * 1.15	\$200,517
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	0.15 * 2904 * 43.04 / 15 * 25	\$31,247
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	0.15 * 94238.2 / 60 * 25	\$5,890
<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW</b>	<b>\$0 + \$200,517 + \$31,247 + \$5,890</b>	<b>\$237,654</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name : MARSHALL Segment Nbr : 045-658-030**

Original		Current
GRYGLA	Municipality	GRYGLA
0.14	Segment Length	0.14
BIT CONC OR ASPH	Existing Surface Type	BIT CONC OR ASPH
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
FROM TH 89 & FLADLAND AVE. TO WOODROW ST. & MAIN AVE.	Termini	FROM TH 89 & FLADLAND AVE. TO WOODROW ST. & MAIN AVE.
140	Present AADT	140
2018	Year of Count	2018
1.1	Projection Factor	1.1
154	Projected Traffic	154
URBAN	Design Type	URBAN
5 - URBAN : 0 - 9999	Design Group	5 ( URBAN : 0 - 9999 )
1999	Latest Year SA funds	1999
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	0.14 * 2789799.78 / 60 * 25 * 1.15	\$187,149
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	0.14 * 2904 * 43.04 / 15 * 25	\$29,164
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	0.14 * 94238.2 / 60 * 25	\$5,497
<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW</b>	<b>\$0 + \$187,149 + \$29,164 + \$5,497</b>	<b>\$221,810</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name :**

**MARSHALL**

**Segment Nbr : 045-659-010**

**Original**

**Current**

HOLT	Municipality	HOLT
0.07	Segment Length	0.07
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
1ST TO 2ND ST ON LINCOLN A HOLT	Termini	1ST TO 2ND ST ON LINCOLN A HOLT
25	Present AADT	25
2018	Year of Count	2018
1.1	Projection Factor	1.1
28	Projected Traffic	28
URBAN	Design Type	URBAN
5 - URBAN : 0 - 9999	Design Group	5 ( URBAN : 0 - 9999 )
1993	Latest Year SA funds	1993
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	0.07 * 2789799.78 / 60 * 25 * 1.15	\$93,575
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	0.07 * 2904 * 43.04 / 15 * 25	\$14,582
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	0.07 * 94238.2 / 60 * 25	\$2,749
<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW</b>	<b>\$0 + \$93,575 + \$14,582 + \$2,749</b>	<b>\$110,906</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name :**

**MARSHALL**

**Segment Nbr : 045-659-020**

**Original**

**Current**

HOLT	Municipality	HOLT
0.07	Segment Length	0.07
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
LINCOLN TO MARSHALL AVE HOLT	Termini	LINCOLN TO MARSHALL AVE HOLT
25	Present AADT	25
2018	Year of Count	2018
1.1	Projection Factor	1.1
28	Projected Traffic	28
URBAN	Design Type	URBAN
5 - URBAN : 0 - 9999	Design Group	5 ( URBAN : 0 - 9999 )
1993	Latest Year SA funds	1993
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	0.07 * 2789799.78 / 60 * 25 * 1.15	\$93,575
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	0.07 * 2904 * 43.04 / 15 * 25	\$14,582
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	0.07 * 94238.2 / 60 * 25	\$2,749
<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW</b>	<b>\$0 + \$93,575 + \$14,582 + \$2,749</b>	<b>\$110,906</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name :**

**MARSHALL**

**Segment Nbr : 045-659-030**

**Original**

**Current**

HOLT	Municipality	HOLT
0.07	Segment Length	0.07
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
2ND ST TO TH 32 ON MARSH HOLT	Termini	2ND ST TO TH 32 ON MARSH HOLT
25	Present AADT	25
2018	Year of Count	2018
1.1	Projection Factor	1.1
28	Projected Traffic	28
URBAN	Design Type	URBAN
5 - URBAN : 0 - 9999	Design Group	5 ( URBAN : 0 - 9999 )
1993	Latest Year SA funds	1993
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	0.07 * 2789799.78 / 60 * 25 * 1.15	\$93,575
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	0.07 * 2904 * 43.04 / 15 * 25	\$14,582
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	0.07 * 94238.2 / 60 * 25	\$2,749
<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW</b>	<b>\$0 + \$93,575 + \$14,582 + \$2,749</b>	<b>\$110,906</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

Status : Original

County Name : **MARSHALL** Segment Nbr : **045-660-020**

Original		Current
MIDDLE RIVER	Municipality	MIDDLE RIVER
1	Segment Length	1
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
N LIMITS MIDDLE RIVER (CSAH 6) TO CSAH 47	Termini	N LIMITS MIDDLE RIVER (CSAH 6) TO CSAH 47
510	Present AADT	510
2018	Year of Count	2018
1.1	Projection Factor	1.1
561	Projected Traffic	561
URBAN	Design Type	URBAN
5 - URBAN : 0 - 9999	Design Group	5 ( URBAN : 0 - 9999 )
1993	Latest Year SA funds	1993
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
2017 SAP 045-660-004 M&OL	Comments	2017 SAP 045-660-004 M&OL
COMBINED WITH 010, 030 & 040 IN 2005		COMBINED WITH 010, 030 & 040 IN 2005
	Interchange Override	
	Segment Override	

**Bridge Information**

Status: Original

Original		Current
45511	Structure Number	45511
0.57	Milepoint	0.57
1966	Year Built	1966
MIDDLE RIVER	Feature Crossed	MIDDLE RIVER
	Type of Service	
	Number of Spans	
50.1	Bridge Length	50.1
37.8	Bridge Width	37.8
100%	Shared Structure	100%
	Comments	
1 ( 0-149 )	Bridge Group Code	1 ( 0-149 )

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	1 * 2789799.78 / 60 * 25 * 1.15	\$1,336,779
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	1 * 2904 * 43.04 / 15 * 25	\$208,314
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	1 * 94238.2 / 60 * 25	\$39,266
Bridge	BridgeLength * BridgeWidth * UnitCost / BridgeLifeCycle * StatutoryNeedsYear * DevelopmentCost	50.1 * 37.8 * 173 / 80 * 25 * 1.15	\$117,740



<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW + Bridge</b>	<b>\$0 + \$1,336,779 + \$208,314 + \$39,266 + \$117,740</b>	<b>\$1,702,099</b>
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**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name : MARSHALL Segment Nbr : 045-661-010**

Original		Current
OSLO	Municipality	OSLO
0.08	Segment Length	0.08
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
TH 1 TO THIRD AVENUE	Termini	TH 1 TO THIRD AVENUE
730	Present AADT	730
2018	Year of Count	2018
1.1	Projection Factor	1.1
803	Projected Traffic	803
URBAN	Design Type	URBAN
5 - URBAN : 0 - 9999	Design Group	5 ( URBAN : 0 - 9999 )
2018	Latest Year SA funds	2018
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
2018 SAP 045-661-003 M&OL	Comments	2018 SAP 045-661-003 M&OL
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	0.08 * 2789799.78 / 60 * 25 * 1.15	\$106,942
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	0.08 * 2904 * 43.04 / 15 * 25	\$16,665
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	0.08 * 94238.2 / 60 * 25	\$3,141
<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW</b>	<b>\$0 + \$106,942 + \$16,665 + \$3,141</b>	<b>\$126,748</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name : MARSHALL Segment Nbr : 045-661-011**

Original		Current
OSLO	Municipality	OSLO
0.14	Segment Length	0.14
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
3RD AVE TO 5TH AVE IN OSLO	Termini	3RD AVE TO 5TH AVE IN OSLO
730	Present AADT	730
2018	Year of Count	2018
1.1	Projection Factor	1.1
803	Projected Traffic	803
URBAN	Design Type	URBAN
5 - URBAN : 0 - 9999	Design Group	5 ( URBAN : 0 - 9999 )
2018	Latest Year SA funds	2018
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
2018 SAP 045-661-003 M&OL	Comments	2018 SAP 045-661-003 M&OL
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	0.14 * 2789799.78 / 60 * 25 * 1.15	\$187,149
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	0.14 * 2904 * 43.04 / 15 * 25	\$29,164
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	0.14 * 94238.2 / 60 * 25	\$5,497
<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW</b>	<b>\$0 + \$187,149 + \$29,164 + \$5,497</b>	<b>\$221,810</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name :**

**MARSHALL**

**Segment Nbr : 045-661-020**

**Original**

**Current**

OSLO	Municipality	OSLO
0.03	Segment Length	0.03
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
MAIN ST TO 5TH AVE.	Termini	MAIN ST TO 5TH AVE.
150	Present AADT	150
2018	Year of Count	2018
1.1	Projection Factor	1.1
165	Projected Traffic	165
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
2018	Latest Year SA funds	2018
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
2018 SAP 045-661-003 M&OL	Comments	2018 SAP 045-661-003 M&OL
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	0.03 * 435413.5 / 60 * 25 * 1.1	\$5,987
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	0.03 * 2112 * 43.04 / 20 * 25	\$3,409
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	0.03 * 9433.84 / 60 * 25	\$118
<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW</b>	<b>\$0 + \$5,987 + \$3,409 + \$118</b>	<b>\$9,514</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name : MARSHALL Segment Nbr : 045-661-030**

Original		Current
OSLO	Municipality	OSLO
0.06	Segment Length	0.06
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
5TH AVE TO 6TH AVE.	Termini	5TH AVE TO 6TH AVE.
115	Present AADT	115
2018	Year of Count	2018
1.1	Projection Factor	1.1
127	Projected Traffic	127
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
2018	Latest Year SA funds	2018
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
2018 SAP 045-661-003 M&OL	Comments	2018 SAP 045-661-003 M&OL
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	0.06 * 435413.5 / 60 * 25 * 1.1	\$11,974
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	0.06 * 2112 * 43.04 / 20 * 25	\$6,818
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	0.06 * 9433.84 / 60 * 25	\$236
<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW</b>	<b>\$0 + \$11,974 + \$6,818 + \$236</b>	<b>\$19,028</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name : MARSHALL Segment Nbr : 045-662-010**

Original		Current
STEPHEN	Municipality	STEPHEN
0.42	Segment Length	0.42
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
N LIM STEPHEN TO 5TH ST	Termini	N LIM STEPHEN TO 5TH ST
560	Present AADT	560
2018	Year of Count	2018
1.1	Projection Factor	1.1
616	Projected Traffic	616
URBAN	Design Type	URBAN
5 - URBAN : 0 - 9999	Design Group	5 ( URBAN : 0 - 9999 )
2008	Latest Year SA funds	2008
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
SAP 45-662-004, 2008 OVERLAY	Comments	SAP 45-662-004, 2008 OVERLAY
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	0.42 * 2789799.78 / 60 * 25 * 1.15	\$561,447
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	0.42 * 2904 * 43.04 / 15 * 25	\$87,492
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	0.42 * 94238.2 / 60 * 25	\$16,492
Total Segment Cost	Signal Leg + Construction + Preservation + ROW	\$0 + \$561,447 + \$87,492 + \$16,492	\$665,431

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

Status : Original

County Name : **MARSHALL** Segment Nbr : 045-662-020

Original		Current
STEPHEN	Municipality	STEPHEN
0.32	Segment Length	0.32
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
5TH ST TO TH 75	Termini	5TH ST TO TH 75
1100	Present AADT	1100
2018	Year of Count	2018
1.1	Projection Factor	1.1
1210	Projected Traffic	1210
URBAN	Design Type	URBAN
5 - URBAN : 0 - 9999	Design Group	5 ( URBAN : 0 - 9999 )
2008	Latest Year SA funds	2008
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
SAP 45-662-004, 2008 OVERLAY	Comments	SAP 45-662-004, 2008 OVERLAY
	Interchange Override	
	Segment Override	

**RailRoadCrossing Information**

Status: Original

Original		Current
BURLINGTON NORTHERN SANTA FE RAILWAY	RailRoad Name	BURLINGTON NORTHERN SANTA FE RAILWAY
081415E	USDOT Number	081415E
0.07	Located at Milepoint	0.07
1	Mainline Tracks	1
SIGNALS & GATES	Protection Type	SIGNALS & GATES
1983	Last Year Protection Upgraded	1983
64	Crossing Length	64
	Last Year Surfaced	
100%	Percentage of Cost	100%
	Comments	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	0.32 * 2789799.78 / 60 * 25 * 1.15	\$427,769
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	0.32 * 2904 * 43.04 / 15 * 25	\$66,660
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	0.32 * 94238.2 / 60 * 25	\$12,565
RR Crossing Protection	UnitCost / RRCrossingLifeCycle * StatutoryNeedsYear	350000 / 25 * 25	\$350,000
RR Crossing Surface	SurfaceLength * UnitCost / RRCrossingLifeCycle * StatutoryNeedsYear	64 * 1750 / 25 * 25	\$112,000
Total Segment Cost	Signal Leg + Construction + Preservation + ROW + RR Crossing Protection + RR Crossing Surface	\$0 + \$427,769 + \$66,660 + \$12,565 + \$350,000 + \$112,000	\$968,994

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

Status : Original

County Name :

**MARSHALL**

Segment Nbr : 045-663-010

**Original**

**Current**

STRANDQUIST	Municipality	STRANDQUIST
0.26	Segment Length	0.26
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
SOUTH LIMITS STRANDQUIST TO LINCOLN STREET	Termini	SOUTH LIMITS STRANDQUIST TO LINCOLN STREET
70	Present AADT	70
2018	Year of Count	2018
1.1	Projection Factor	1.1
77	Projected Traffic	77
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
2004	Latest Year SA funds	2004
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
RESURF SAP 45-663-02	Comments	RESURF SAP 45-663-02
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	0.26 * 435413.5 / 60 * 25 * 1.1	\$51,887
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	0.26 * 2112 * 43.04 / 20 * 25	\$29,543
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	0.26 * 9433.84 / 60 * 25	\$1,022
<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW</b>	<b>\$0 + \$51,887 + \$29,543 + \$1,022</b>	<b>\$82,452</b>



**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

Status : Original

County Name :

MARSHALL

Segment Nbr : 045-663-020

**Original**

**Current**

STRANDQUIST	Municipality	STRANDQUIST
0.07	Segment Length	0.07
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
LINCOLN STREET TO MAIN STREET ON FIRST AVENUE	Termini	LINCOLN STREET TO MAIN STREET ON FIRST AVENUE
80	Present AADT	80
2018	Year of Count	2018
1.1	Projection Factor	1.1
88	Projected Traffic	88
URBAN	Design Type	URBAN
5 - URBAN : 0 - 9999	Design Group	5 ( URBAN : 0 - 9999 )
2004	Latest Year SA funds	2004
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
RESURF SAP 45-663-02	Comments	RESURF SAP 45-663-02
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	0.07 * 2789799.78 / 60 * 25 * 1.15	\$93,575
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	0.07 * 2904 * 43.04 / 15 * 25	\$14,582
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	0.07 * 94238.2 / 60 * 25	\$2,749
<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW</b>	<b>\$0 + \$93,575 + \$14,582 + \$2,749</b>	<b>\$110,906</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name :**

**MARSHALL**

**Segment Nbr : 045-663-030**

**Original**

**Current**

STRANDQUIST	Municipality	STRANDQUIST
0.06	Segment Length	0.06
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
FIRST AVENUE TO TH 59 ON MAIN STREET	Termini	FIRST AVENUE TO TH 59 ON MAIN STREET
80	Present AADT	80
2018	Year of Count	2018
1.1	Projection Factor	1.1
88	Projected Traffic	88
URBAN	Design Type	URBAN
5 - URBAN : 0 - 9999	Design Group	5 ( URBAN : 0 - 9999 )
2004	Latest Year SA funds	2004
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
RESURF SAP 45-663-02	Comments	RESURF SAP 45-663-02
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	0.06 * 2789799.78 / 60 * 25 * 1.15	\$80,207
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	0.06 * 2904 * 43.04 / 15 * 25	\$12,499
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	0.06 * 94238.2 / 60 * 25	\$2,356
<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW</b>	<b>\$0 + \$80,207 + \$12,499 + \$2,356</b>	<b>\$95,062</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

Status : Original

County Name : **MARSHALL** Segment Nbr : **045-664-010**

Original		Current
WARREN	Municipality	WARREN
0.22	Segment Length	0.22
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
TH 1 TO TH 75	Termini	TH 1 TO TH 75
435	Present AADT	435
2018	Year of Count	2018
1.1	Projection Factor	1.1
479	Projected Traffic	479
URBAN	Design Type	URBAN
5 - URBAN : 0 - 9999	Design Group	5 ( URBAN : 0 - 9999 )
1989	Latest Year SA funds	1989
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
COMBINED WITH 020 & 030 IN 2005	Comments	COMBINED WITH 020 & 030 IN 2005
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	0.22 * 2789799.78 / 60 * 25 * 1.15	\$294,091
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	0.22 * 2904 * 43.04 / 15 * 25	\$45,829
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	0.22 * 94238.2 / 60 * 25	\$8,639
<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW</b>	<b>\$0 + \$294,091 + \$45,829 + \$8,639</b>	<b>\$348,559</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name : MARSHALL Segment Nbr : 045-664-040**

Original		Current
WARREN	Municipality	WARREN
0.13	Segment Length	0.13
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
TH 1 TO MAIN ST ON FLETCHER AVE	Termini	TH 1 TO MAIN ST ON FLETCHER AVE
440	Present AADT	440
2018	Year of Count	2018
1.1	Projection Factor	1.1
484	Projected Traffic	484
URBAN	Design Type	URBAN
5 - URBAN : 0 - 9999	Design Group	5 ( URBAN : 0 - 9999 )
1989	Latest Year SA funds	1989
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	0.13 * 2789799.78 / 60 * 25 * 1.15	\$173,781
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	0.13 * 2904 * 43.04 / 15 * 25	\$27,081
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	0.13 * 94238.2 / 60 * 25	\$5,105
<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW</b>	<b>\$0 + \$173,781 + \$27,081 + \$5,105</b>	<b>\$205,967</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

Status : Original

County Name : **MARSHALL** Segment Nbr : 045-664-050

Original		Current
WARREN	Municipality	WARREN
0.06	Segment Length	0.06
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
MAIN ST TO 1ST ST	Termini	MAIN ST TO 1ST ST
440	Present AADT	440
2018	Year of Count	2018
1.1	Projection Factor	1.1
484	Projected Traffic	484
URBAN	Design Type	URBAN
5 - URBAN : 0 - 9999	Design Group	5 ( URBAN : 0 - 9999 )
1989	Latest Year SA funds	1989
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**RailRoadCrossing Information**

Status: Original

Original		Current
BURLINGTON NORTHERN SANTA FE RAILWAY	RailRoad Name	BURLINGTON NORTHERN SANTA FE RAILWAY
081531T	USDOT Number	081531T
0.03	Located at Milepoint	0.03
1	Mainline Tracks	1
SIGNALS ONLY	Protection Type	SIGNALS ONLY
1995	Last Year Protection Upgraded	1995
56	Crossing Length	56
	Last Year Surfaced	
100%	Percentage of Cost	100%
	Comments	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	0.06 * 2789799.78 / 60 * 25 * 1.15	\$80,207
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	0.06 * 2904 * 43.04 / 15 * 25	\$12,499
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	0.06 * 94238.2 / 60 * 25	\$2,356
RR Crossing Protection	UnitCost / RRCrossingLifeCycle * StatutoryNeedsYear	300000 / 25 * 25	\$300,000
RR Crossing Surface	SurfaceLength * UnitCost / RRCrossingLifeCycle * StatutoryNeedsYear	56 * 1750 / 25 * 25	\$98,000
Total Segment Cost	Signal Leg + Construction + Preservation + ROW + RR Crossing Protection + RR Crossing Surface	\$0 + \$80,207 + \$12,499 + \$2,356 + \$300,000 + \$98,000	\$493,062

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name : MARSHALL Segment Nbr : 045-664-060**

Original		Current
WARREN	Municipality	WARREN
0.07	Segment Length	0.07
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
1ST ST TO 2ND ST	Termini	1ST ST TO 2ND ST
440	Present AADT	440
2018	Year of Count	2018
1.1	Projection Factor	1.1
484	Projected Traffic	484
URBAN	Design Type	URBAN
5 - URBAN : 0 - 9999	Design Group	5 ( URBAN : 0 - 9999 )
1989	Latest Year SA funds	1989
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
	Comments	
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	0.07 * 2789799.78 / 60 * 25 * 1.15	\$93,575
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	0.07 * 2904 * 43.04 / 15 * 25	\$14,582
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	0.07 * 94238.2 / 60 * 25	\$2,749
<b>Total Segment Cost</b>	<b>Signal Leg + Construction + Preservation + ROW</b>	<b>\$0 + \$93,575 + \$14,582 + \$2,749</b>	<b>\$110,906</b>

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name : MARSHALL Segment Nbr : 045-664-070**

Original		Current
WARREN	Municipality	WARREN
0.35	Segment Length	0.35
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
JOHNSON AVE FROM TH 75 TO BRINKERHOFF (7TH ST)	Termini	JOHNSON AVE FROM TH 75 TO BRINKERHOFF (7TH ST)
1350	Present AADT	1350
2018	Year of Count	2018
1.1	Projection Factor	1.1
1485	Projected Traffic	1485
URBAN	Design Type	URBAN
5 - URBAN : 0 - 9999	Design Group	5 ( URBAN : 0 - 9999 )
2018	Latest Year SA funds	2018
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
2018 SAP 045-664-004 M&OL	Comments	2018 SAP 045-664-004 M&OL
RESURFACED SAP 45-664-02		RESURFACED SAP 45-664-02
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	0.35 * 2789799.78 / 60 * 25 * 1.15	\$467,873
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	0.35 * 2904 * 43.04 / 15 * 25	\$72,910
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	0.35 * 94238.2 / 60 * 25	\$13,743
Total Segment Cost	Signal Leg + Construction + Preservation + ROW	\$0 + \$467,873 + \$72,910 + \$13,743	\$554,526

**SANEEDS - CSAH - Segment Report**

**Roadway Segment Information**

**Status : Original**

**County Name : MARSHALL Segment Nbr : 045-664-080**

Original		Current
WARREN	Municipality	WARREN
0.14	Segment Length	0.14
MIXED BITUMINOUS	Existing Surface Type	MIXED BITUMINOUS
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
JOHNSON AVE FROM BRINKERHOFF (7TH ST) TO FARM AVE	Termini	JOHNSON AVE FROM BRINKERHOFF (7TH ST) TO FARM AVE
300	Present AADT	300
2018	Year of Count	2018
1.1	Projection Factor	1.1
330	Projected Traffic	330
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
2014	Latest Year SA funds	2014
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
2014 SAP 045-664-003 RECONST	Comments	2014 SAP 045-664-003 RECONST
	Interchange Override	
	Segment Override	

**Segment Cost Information**

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	0.14 * 435413.5 / 60 * 25 * 1.1	\$27,939
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	0.14 * 2112 * 43.04 / 20 * 25	\$15,908
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	0.14 * 9433.84 / 60 * 25	\$550
Total Segment Cost	Signal Leg + Construction + Preservation + ROW	\$0 + \$27,939 + \$15,908 + \$550	\$44,397



SANEEDS - CSAH - Segment Report

Roadway Segment Information

Status : Original

County Name : MARSHALL Segment Nbr : 045-664-090

Original		Current
WARREN	Municipality	WARREN
0.36	Segment Length	0.36
AGGREGATE SURF	Existing Surface Type	AGGREGATE SURF
2	Existing Surface Lanes	2
NOT DIVIDED	Existing Lane Description	NOT DIVIDED
FARM AVE FROM JOHNSON AVE TO TH 1	Termini	FARM AVE FROM JOHNSON AVE TO TH 1
180	Present AADT	180
2018	Year of Count	2018
1.1	Projection Factor	1.1
198	Projected Traffic	198
RURAL	Design Type	RURAL
2 - RURAL : 150 - 1499	Design Group	2 ( RURAL : 150 - 1499 )
2014	Latest Year SA funds	2014
0	Number of Signal Legs	0
No Special Message	Special Message Code	No Special Message
2014 SAP 045-664-003 RECONST	Comments	2014 SAP 045-664-003 RECONST
	Interchange Override	
	Segment Override	

Segment Cost Information

Computation Factor	Computation Formula	Values Used For Calculation	Computation Result
Signal Leg	TrafficSignalLegs * UnitCost / SignalLifeCycle * StatutoryNeedsYear	0 * 61250 / 40 * 25	\$0
Construction	Length * UnitCost / ConstrLifeCycle * StatutoryNeedsYear * DevelopmentCost	0.36 * 435413.5 / 60 * 25 * 1.1	\$71,843
Preservation	Length * Quantity * UnitCost / PreservationLifeCycle * StatutoryNeedsYear	0.36 * 2112 * 43.04 / 20 * 25	\$40,905
ROW	Length * UnitCost / ROWLifeCycle * StatutoryNeedsYear	0.36 * 9433.84 / 60 * 25	\$1,415
Total Segment Cost	Signal Leg + Construction + Preservation + ROW	\$0 + \$71,843 + \$40,905 + \$1,415	\$114,163