




LEGEND:

-  PROPOSED ROADWAY MODIFICATIONS
-  PROPOSED DEVELOPMENT
-  EXISTING TRAFFIC SIGNALS

KEY PLAN

3071 RIVERSIDE
200m NORTH OF WALKLEY ROAD



TRANSPORTATION
SERVICES DEPT

Transportation Engineering Services Branch

Approved By:
M.GIAMPA

Completed By:
PARSONS

Scale:
N.T.S.

Date:
AUG.
2017

Drawing No.:

RMA-2017-
TES-###-A



Depressed Concrete Sidewalk

Concrete Sidewalk

Concrete Median




2.0m Concrete Sidewalk

Crosswalk

TWSI

Concrete Median

LEGEND:

-  PROPOSED ASPHALT AND DEPRESSED CURB
-  PROPOSED CONCRETE AND SIDEWALK
-  NEW TRAFFIC SIGNALS

PROPOSED ROADWAY MODIFICATIONS

3071 RIVERSIDE
200m NORTH OF WALKLEY ROAD

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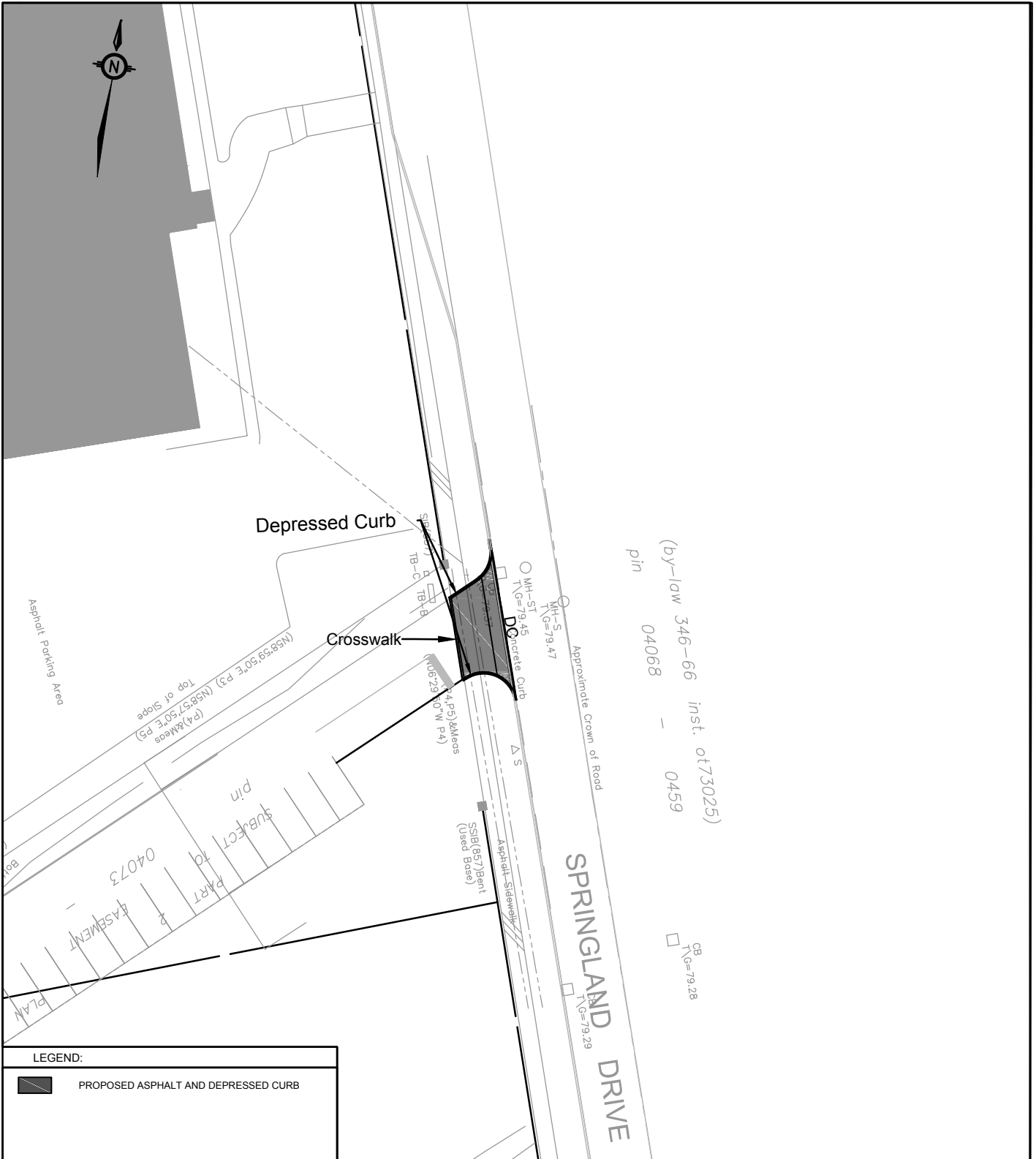
Date:
AUG.
2017

Drawing No.:

RMA-2017-
TES-###-B1




TRANSPORTATION
SERVICES DEPT



(by-law 346-66 inst. ot73025)
 pin 04068 - 0459

CB
 T/G=79.28

LEGEND:	
	PROPOSED ASPHALT AND DEPRESSED CURB



PROPOSED ROADWAY MODIFICATIONS

3071 RIVERSIDE
 200m NORTH OF WALKLEY ROAD

Transportation Engineering Services Branch		
Approved By: M.GIAMPA	Drawing No.:	
Completed By: PARSONS	RMA-2017- TES-###-B2	
Scale: N.T.S.	Date: AUG. 2017	

Project Name: 3071 Riverside Drive
Subject: RMA Class 'C' Cost Estimate
Date: 8/15/2017
Job #: 476440-01000

WBS	Description	Cost
1.0	Removals	\$ 52,238.00
2.0	New Construction	\$ 238,279.00
3.0	Traffic Signals	\$ 129,224.00
	Subtotal	\$ 446,741.00
	Property	0% \$ -
	Utilities	15% \$ 67,011.15
	Engineering	15% \$ 67,011.15
	Internal City Costs	15% \$ 67,011.15
	Miscellaneous	10% \$ 44,674.10
	Subtotal	\$ 692,448.55
	Contingency	25% \$ 173,112.14
	Grand Total	\$ 865,560.69

Notes:

- 1 Landscaping elements have not been included in this costing exercise.
- 2 Linear infrastructure/servicing infrastructure has not been included in this costing exercise.
- 3 Pavement structure to be confirmed by geotechnical recommendations.
- 4 No property impacts are noted.

Project Name: 3071 Riverside Drive
Subject: RMA Class 'C' Cost Estimate
Date: 8/15/2017
Job #: 476440-01000

Item		Code	Units	City Cost	Quantity	Cost
1.0						
Removals	Remove Asphalt Pavement - Partial Depth	D010.02	m ²	\$ 18.00	96.0	\$ 1,728.00
	Saw Cut Asphalt	L040.35	m	\$ 8.00	114.0	\$ 912.00
	Relocate Existing Catchbasin	F040.03	ea	\$ 2,065.00	2.0	\$ 4,130.00
	Earth excavation - grading, including all removals	L120.02	m ³	\$ 30.00	1135.6	\$ 34,068.00
	Hydro Excavation/Vacuum Truck (operated)	U020.28	hr	\$ 285.00	40.0	\$ 11,400.00
	Removals - Subtotal					\$ 52,238.00

2.0						
New Construction	Traffic Control Plan	A020.01	LS	\$ 10,000.00	1.0	\$ 10,000.00
	Police Assistance at Intersection	A020.02	hr	\$ 213.00	6.0	\$ 1,278.00
	Erosion and Sediment Control	A040.02	LS	\$ 5,000.00	1.0	\$ 5,000.00
	Superpave 12.5mm Level D (PG 64-34) (40mm)	L380.20	t	\$ 217.00	122.8	\$ 26,645.00
	Superpave 19mm Level D (PG 64-34) (100mm)	L390.05	t	\$ 202.00	307.0	\$ 62,006.00
	Asphalt Pathway	L230.01	m ²	\$ 58.00	4.0	\$ 232.00
	Granular 'A' (150mm)	L210.01	t	\$ 40.00	460.4	\$ 18,418.00
	Granular 'B' (500mm)	L210.02	t	\$ 22.00	1406.9	\$ 30,952.00
	Granular 'A' Bedding - Sidewalk (200mm)	D020.04	t	\$ 32.00	546.0	\$ 17,472.00
	Concrete Curb SC1.1	N340.04	m	\$ 65.00	184.5	\$ 11,993.00
	Concrete Sidewalks, Boulevards and Islands	L250.06	m ²	\$ 76.00	236.6	\$ 17,984.00
	Topsoil (150mm)	N410.01	m ³	\$ 71.00	26.9	\$ 1,912.00
	Sod, Water Included	N410.02	m ²	\$ 15.00	179.5	\$ 2,693.00
	Supply Curb Inlet "Fish" Type Frame and Cover	N370.07	ea	\$ 530.00	4.0	\$ 2,120.00
	600mm x 600mm PCC catch basin per OPSD-705.010	F040.01	ea	\$ 2,700.00	4.0	\$ 10,800.00
	Catchbasin Lead PVC 200mm SDR 35	F060.02	m	\$ 297.00	28.0	\$ 8,316.00
	Adjusting or Rebuilding Curb Inlet, Catchbasin	L360.04	ea	\$ 399.00	6.0	\$ 2,394.00
	Pavement Marking - Line	-	m	\$ 1.50	448.0	\$ 672.00
	Pavement Marking - Symbol	-	ea	\$ 250.00	3.0	\$ 750.00
	TWSI	L250.11	m ²	\$ 620.00	5.6	\$ 3,492.00
	Signs	-	ea	\$ 450.00	7.0	\$ 3,150.00
	New Construction - Subtotal					\$ 238,279.00

3.0						
Traffic Signals						
City Design Fees	-	LS	\$ 10,000.00	1.0	\$	10,000.00
Traffic Maintenance Hole per T4	J010.01	ea(P)	\$ 759.00	2.0	\$	1,518.00
Traffic Handhole per T1	J010.02	ea(P)	\$ 655.00	2.0	\$	1,310.00
100mm Rigid Duct, Concrete Encased in Paved Surface per T7	J040.04	m	\$ 70.00	200.0	\$	14,000.00
2 x 100mm Rigid duct, concrete encased in paved surface per T7	J040.05	m	\$ 90.00	93.0	\$	8,370.00
75mm Rigid duct, Concrete encased in Paved Surface per T7	J030.08	m	\$ 43.00	15.0	\$	645.00
Ground Plate per T10	J060.01	ea(P)	\$ 84.00	6.0	\$	504.00
Ground Wire in paved surface	J060.04	ea(P)	\$ 6.00	6.0	\$	36.00
Mast Arm Foundation per T22	J070.01	ea(P)	\$ 1,649.00	4.0	\$	6,596.00
Joint Use Pole Foundation per T23	J070.05	ea(P)	\$ 1,502.00	2.0	\$	3,004.00
Disconnect Foundation per T26	J070.14	ea(P)	\$ 1,013.00	1.0	\$	1,013.00
Controller Foundation per T24	J070.11	ea(P)	\$ 1,172.00	1.0	\$	1,172.00
Detector Loop Conductor Cable and Loop Feeder Cable in Paved Surface	J090.01	m(P)	\$ 44.00	24.0	\$	1,056.00
Traffic Signals Construction	-	LS	\$ 80,000.00	1.0	\$	80,000.00
Traffic Signals - Subtotal					\$	129,224.00

4.0						
Streetlighting						
City Design Fees	-	LS	\$ 7,000.00	1.0	\$	7,000.00
Streetlighting Construction	-	ea	\$ 10,000.00	2.0	\$	20,000.00
Streetlighting - Subtotal					\$	27,000.00