

CYCLE TRACK RIGHT EDGE ALIGNMENT CONTROL POINT COORDINATES		
POINT/STATION	NORTHING	EASTING
PC 0+943.899	9297.736	10786.513
PCC 0+956.037	9309.107	10782.270
PT 0+968.395	9320.685	10777.949
PT 0+968.395	9320.685	10777.949
PI 0+978.395	9330.010	10774.338

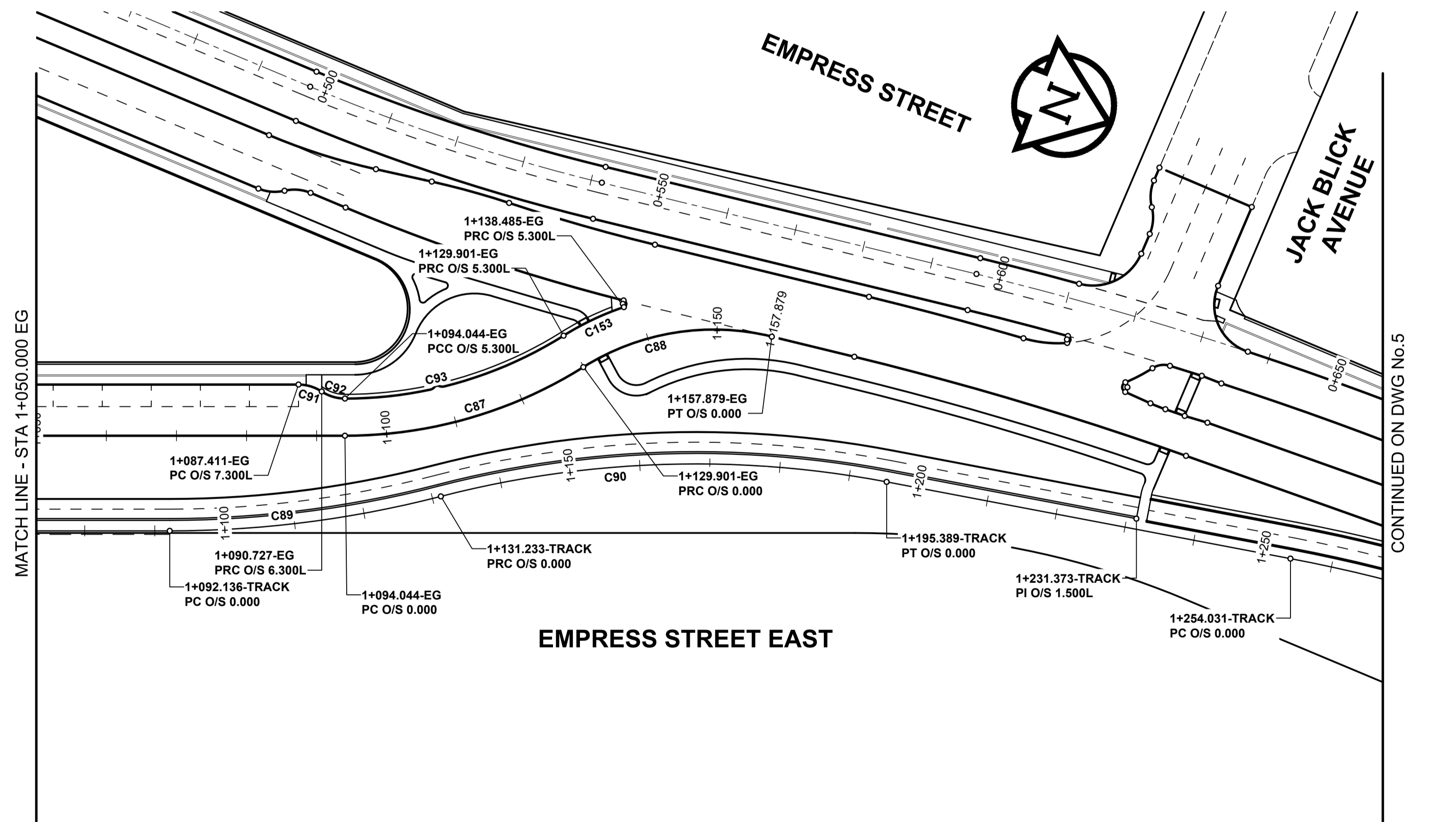
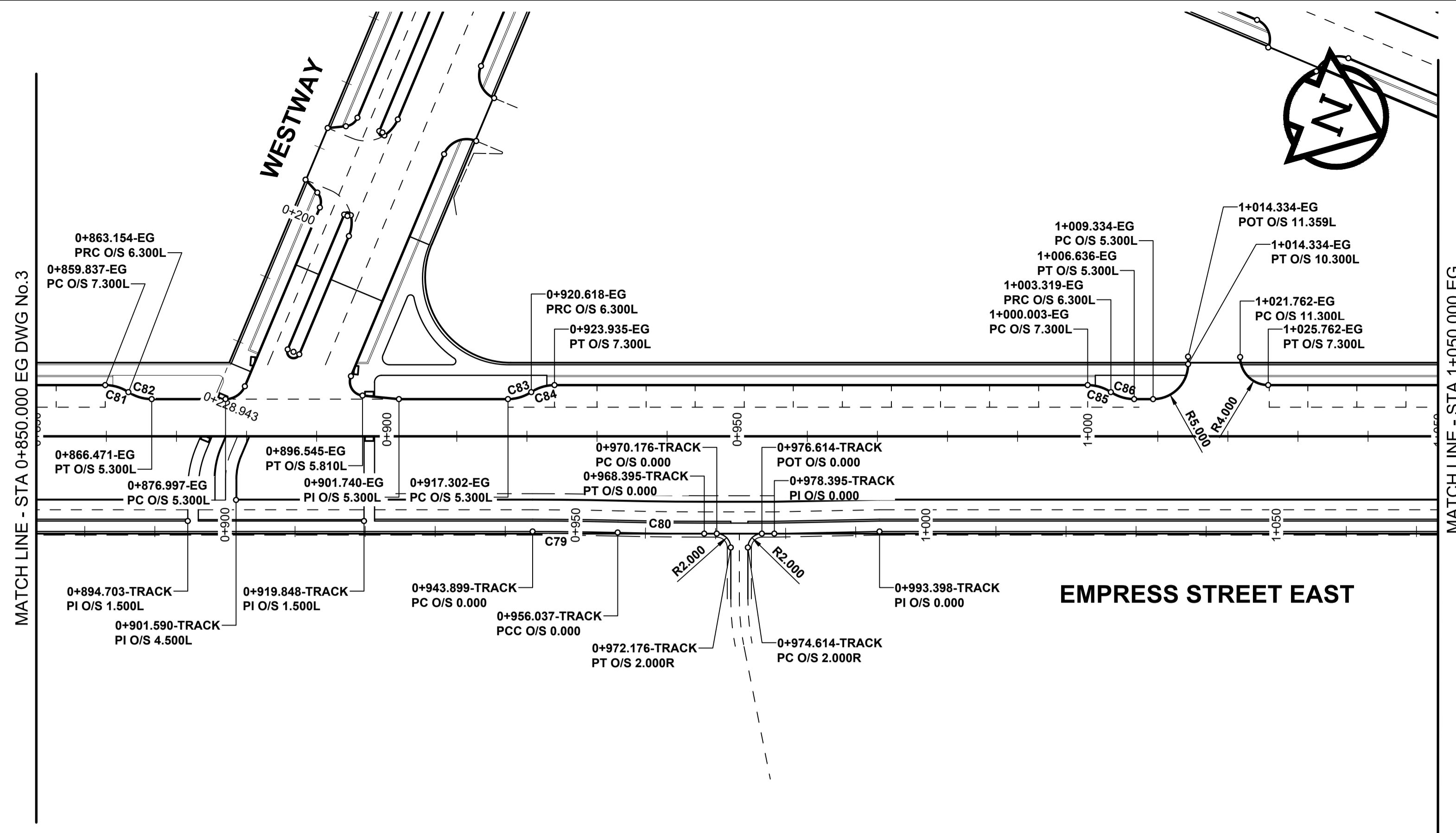
CIRCULAR CURVE DATA				
CURVE	RADIUS	LENGTH	DELTA	TANGENT
C79	495.500	12.138	1°24'13"	6.069
C80	504.500	12.358	1°24'13"	6.179

EAST GUTTER LINE ALIGNMENT CONTROL POINT COORDINATES		
POINT/STATION	NORTHING	EASTING
PC 1+099.044	9459.040	10709.495
PRC 1+135.580	9488.220	10688.202
PT 1+162.217	9510.899	10675.491

EAST GUTTER LINE ALIGNMENT				
CIRCULAR CURVE DATA				
CURVE	RADIUS	LENGTH	DELTA	TANGENT
C87	64.000	35.857	32°06'04"	18.413
C88	35.000	27.978	45°48'01"	14.785

CYCLE TRACK RIGHT EDGE ALIGNMENT CONTROL POINT COORDINATES		
POINT/STATION	NORTHING	EASTING
PC 1+092.136	9435.967	10732.990
PRC 1+131.233	9528.826	10689.536
PT 1+195.389	9320.685	10777.949
PC 1+254.031	9586.504	10678.949

CYCLE TRACK RIGHT EDGE ALIGNMENT				
CIRCULAR CURVE DATA				
CURVE	RADIUS	LENGTH	DELTA	TANGENT
C89	154.500	39.096	14°29'56"	19.653
C90	145.500	64.156	25°15'50"	32.608



CIRCULAR CURVE DATA				
CURVE	RADIUS	LENGTH	DELTA	TANGENT
C81	6.000	3.514	33°33'26"	1.809
C82	6.000	3.688	35°13'09"	1.904
C83	6.000	3.514	33°33'26"	1.809
C84	6.000	3.514	33°33'26"	1.809
C85	6.000	3.514	33°33'26"	1.809
C86	6.000	3.514	33°33'26"	1.809

CIRCULAR CURVE DATA				
CURVE	RADIUS	LENGTH	DELTA	TANGENT
C87	64.000	35.857	32°06'04"	18.413
C88	35.000	27.978	45°48'01"	14.785
C91	6.000	3.514	33°33'26"	1.809
C92	6.000	3.514	33°33'26"	1.809
C93	58.700	32.888	32°06'04"	16.888
C153	40.300	9.540	13°33'49"	4.792

METRIC
 WHOLE NUMBERS INDICATE MILLIMETRES
 DECIMALIZED NUMBERS INDICATE METRES

EXISTING	LEGEND - PLAN	NEW	EXISTING	LEGEND - PLAN	NEW	EXISTING	LEGEND - PLAN	NEW	
	GAS		MANHOLE		CONCRETE PAVEMENT		LOCATION APPROVED		BM
	MTS / PEDESTAL		CATCH BASIN / CATCH PIT		CONC SIDEWALK / MEDIAN		UNDERGROUND STRUCTURES		ELEV
	HYDRO / CABINET		CURB INLET WITH BOX		ASPHALT PAVEMENT		SUPR. U/G STRUCTURES		
	CATV / FIBRE OPTIC		TREE		PAVING STONE		DATE		
	TRAFFIC SIGNALS / PIT		TEST HOLE		GRAVEL		NOTE		
	LAND DRAINAGE SEWER		PROPERTY LINE		RAMP CURB		LOCATION OF UNDERGROUND STRUCTURES		
	SANITARY / COMBINED SEWER		SURVEY BAR		PLANING / REMOVAL		UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.		
	CB LEAD / SSP / DCP		FENCE						
	WATER MAIN		BOC / EDGE OF PAVEMENT						
	SUBDRAIN		ELEVATION						
	DITCH		TRAFFIC SIGN						

LOCATION APPROVED
 UNDERGROUND STRUCTURES

SUPR. U/G STRUCTURES COMMITTEE DATE

NOTE:
 LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.

No.	REVISIONS	DATE	BY
B	ISSUED FOR TENDER	18/09/04	RPB
A	ISSUED FOR CLIENT REVIEW	18/06/27	RPB

DESIGNED BY	WRJ	CHECKED BY	RPB
DRAWN BY	DID	APPROVED BY	BWB
RELEASED FOR CONSTRUCTION			
HOR SCALE	1:500	DATE	18/09/04
VERT SCALE	N/A	DATE	18/09/04

PROFESSIONAL'S SEAL
 PROVINCE OF MANITOBA
 REGISTERED PROFESSIONAL ENGINEER
R.P. BRUCE
 CONSULTANT FILE NAME
 W\1600344-Empr-Recon-HG-4.dwg

THE CITY OF WINNIPEG
 PUBLIC WORKS DEPARTMENT
 ENGINEERING DIVISION

EMPIRE STREET PROJECT
 PAVEMENT RECONSTRUCTION
 HORIZONTAL GEOMETRY
 EMPRESS STREET EAST
 STA 0+850.000 EG TO EMPRESS STREET

CITY DRAWING NUMBER
 P-3494-4
 SHEET 4 OF 168
 DRAWING No. REV
4 B

SCALE: 1:500
 0 5 10 20 30m

BID OPPORTUNITY No. 602-2018