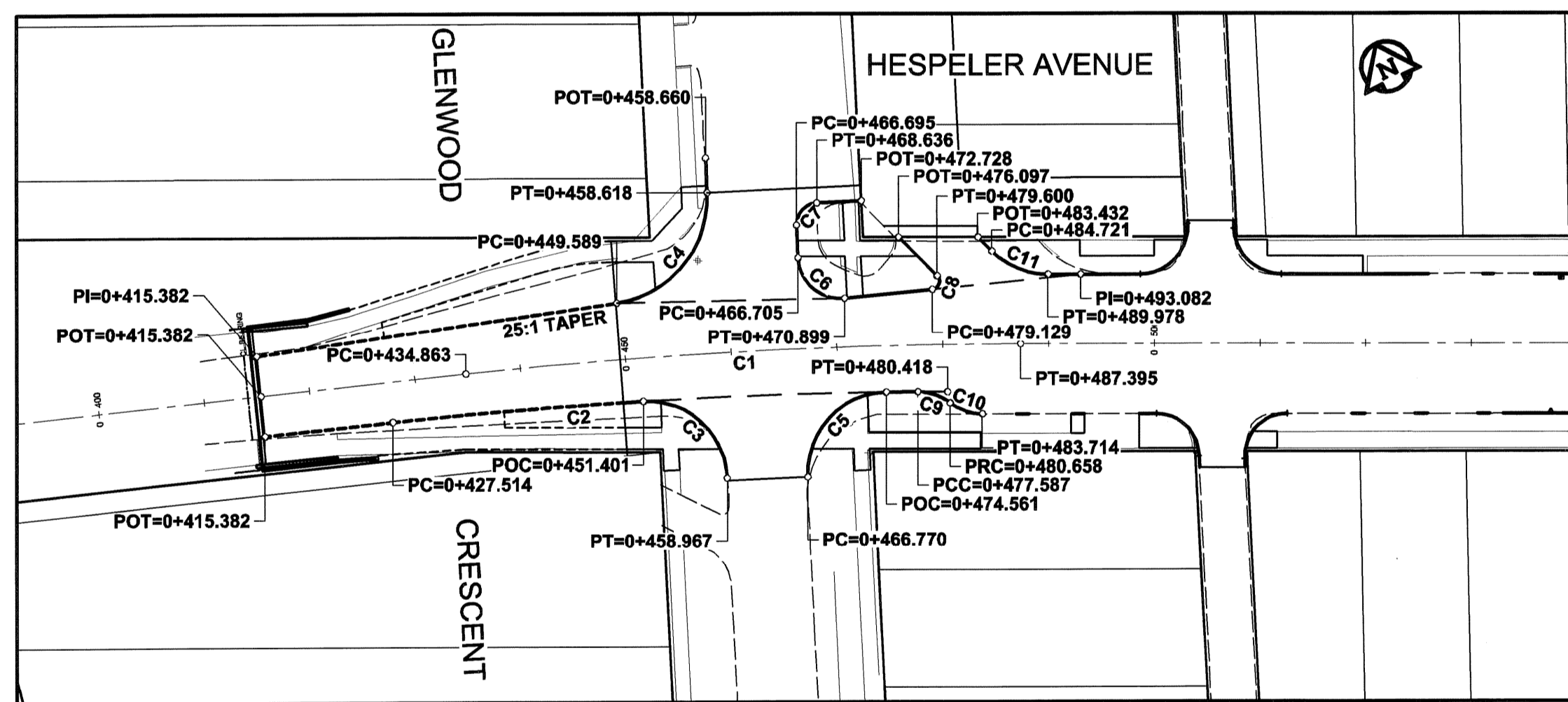
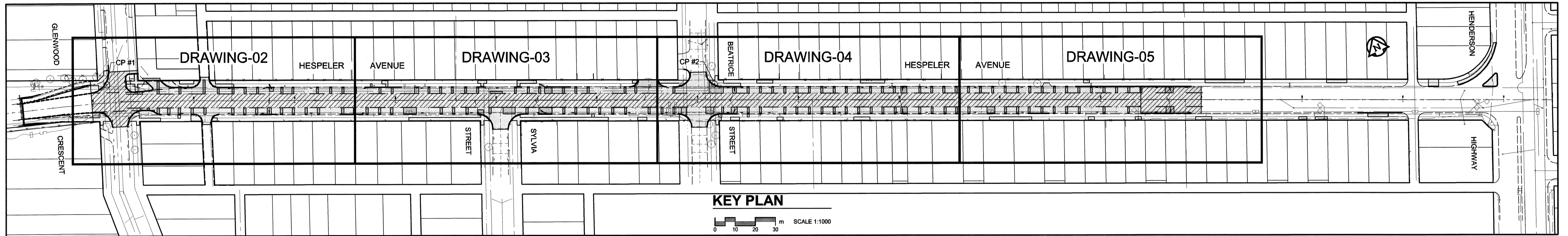


ABBREVIATIONS - GENERAL

ABANDON (ED)	ABAN	CORRUGATED STEEL PIPE	CSP	EXISTING	EXST	ON CENTER	O/C	REINFORCED CONCRETE	RC
APPROXIMATE	APROX	CURB INLET	CI	FEEDERMAIN	FM	ORIGINAL GROUND	OG	REINFORCING	REINF
ASPHALT	ASPH	CURB & GUTTER INLET	C & GI	FENCE	F	OUTSIDE DIAMETER	OD	REVISED/REVISION	REV
BEGINNING OF CURVE	BC	CRESCENT	CRES	GATE VALVE	GV	PAVEMENT	PAVT	RIGHT-OF-WAY	ROW
BEGINNING OF VERTICAL CURVE	BVC	CROSS SECTION	XSEC	GRAVEL	GRAV	POINT OF COMPOUND CURVE	PCC	SIDEWALK	SW
BACK OF CURB	BOC	DEGREE	DEG	HIGHWAY	HWY	POINT OF CURVE	PC	STANDARD	STD
BOTTOM	BOT	DETOUR	DET	HORIZONTAL	HORZ	POINT OF INTERSECTION	PI	STATION	STA
BOULEVARD	BLVD	DIAMETER	DIA	HYDRANT	HYD	PI OF VERTICAL CURVE	PVC	STORM RELIEF SEWER	SRS
BUILDING	BLDG	DRAWING	DWG	HYDRO	H	POINT OF TANGENT	PT	STREET	ST
CATCH BASIN	CB	EAST	E	INVERT ELEVATION	INV. EL	POINT OF VERTICAL INTERSECTION	PVI	SWALE	SWL
CATCH PIT	CP	EDGE OF PAVEMENT	EOPAVT	IRON BAR	IB	POINT ON CURVE	POC	TANGENT	TAN
CENTERLINE	CL	ELEVATION	EL	JUNCTION	JCT	POINT ON REVERSE CURVE	PRC	TAPER	TPR
CENTER RADIUS	CTR	END OF CURVE	EC	LAND DRAINAGE SEWER	LDS	POINT ON TANGENT	POT	TRAFFIC SIGNAL	TS
CHECKED	CHKD	END OF TAPER	ET	LENGTH OF VERTICAL CURVE	LVC	POINT ON TANGENT CURVE	PVC	VERTICAL	VERT
COMBINED SEWER	CS	END OF VERTICAL CURVE	EVC	MANHOLE	MH	PROPERTY LINE	PL	VERTICAL CURVE	VC
CONCRETE	CONC	ENTRANCE	ENT	MAXIMUM	MAX	PROPOSED	PROP	WASTE WATER SEWER	WWS
CONCRETE CURB	CC	EQUALLY SPACED	ES	MONUMENT	MON	RADIUS	R	WATERMAIN	WM
COORDINATE	COORD	EXCAVATION	EXC	NORTH	N	RED LIGHT CAMERA	RLC		



COORDINATE LAYOUT-NORTH SIDE PAVT BOC

DESCRIPTION	STATION	O/S FROM CL	NORTHING	EASTING
PI	0+415.382	3.750 L	745.240	1058.045
PC	0+449.589	5.344 L	711.829	1066.189
PT	0+458.618	15.092 L	704.293	1077.286
POT	0+458.660	18.389 L	704.748	1080.551
PC	0+466.695	11.629 L	695.590	1075.045
PT	0+468.636	13.639 L	693.886	1077.302
POT	0+472.728	13.686 L	689.722	1077.883
PC	0+466.705	8.557 L	695.166	1072.002
PT	0+470.899	4.594 L	690.434	1068.630
PC	0+479.129	5.218 L	682.256	1070.234
PT	0+479.600	6.487 L	681.922	1071.548
POT	0+476.097	10.188 L	685.879	1074.823
POT	0+483.432	10.089 L	678.429	1075.541
PC	0+484.721	8.758 L	676.988	1074.348
PT	0+489.978	6.553 L	671.501	1072.659
PI	0+493.082	6.553 L	668.411	1072.950

COORDINATE LAYOUT-CENTERLINE ALIGNMENT

DESCRIPTION	STATION	O/S FROM CL	NORTHING	EASTING
POT	0+415.382	0.000	744.498	1054.369
PC	0+434.863	0.000	725.402	1058.223
PT	0+487.395	0.000	673.457	1065.892

DRAWING LIST

No.	CITY DWG.No.	REV.	DESCRIPTION
00	3264-00	0	COVER SHEET
01	3264-01	0	ABBREVIATIONS, KEY PLAN, DRAWING LIST, HORIZONTAL AND VERTICAL CONTROL, GEOMETRIC LAYOUT
02	3264-02	0	HORIZONTAL AND VERTICAL ALIGNMENT FROM STA. 0+449.500 TO STA. 0+580
03	3264-03	0	HORIZONTAL AND VERTICAL ALIGNMENT FROM STA. 0+580 TO STA. 0+730
04	3264-04	0	HORIZONTAL AND VERTICAL ALIGNMENT FROM STA. 0+730 TO STA. 0+880
05	3264-05	0	HORIZONTAL AND VERTICAL ALIGNMENT FROM STA. 0+880 TO STA. 1+000

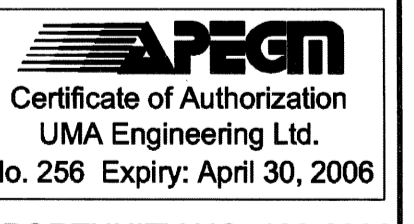
SURVEY BAR-HORIZONTAL CONTROL POINTS-PROJECT COORDINATES

CONTROL POINT	LOCATION	NAD83 DATUM		
		NORTHING	EASTING	ELEVATION
#1	O/S bar in pavt @ NW Crn of Hespeler Ave & Glenwood Cresc	704.561	1070.899	229.843
#2	O/S bar in blvd @ NE Crn of Hespeler Ave & Beatrice St	404.409	1099.201	228.578

NOTE: THE PROJECT DRAWINGS HAVE A SCALE FACTOR OF 1.000103 APPLIED TO LBIS INFORMATION TO MATCH LOCAL PROJECT COORDINATES

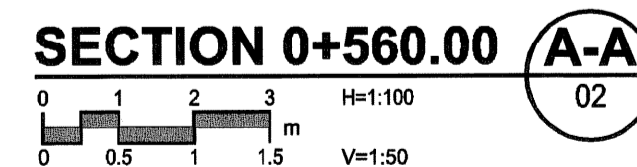
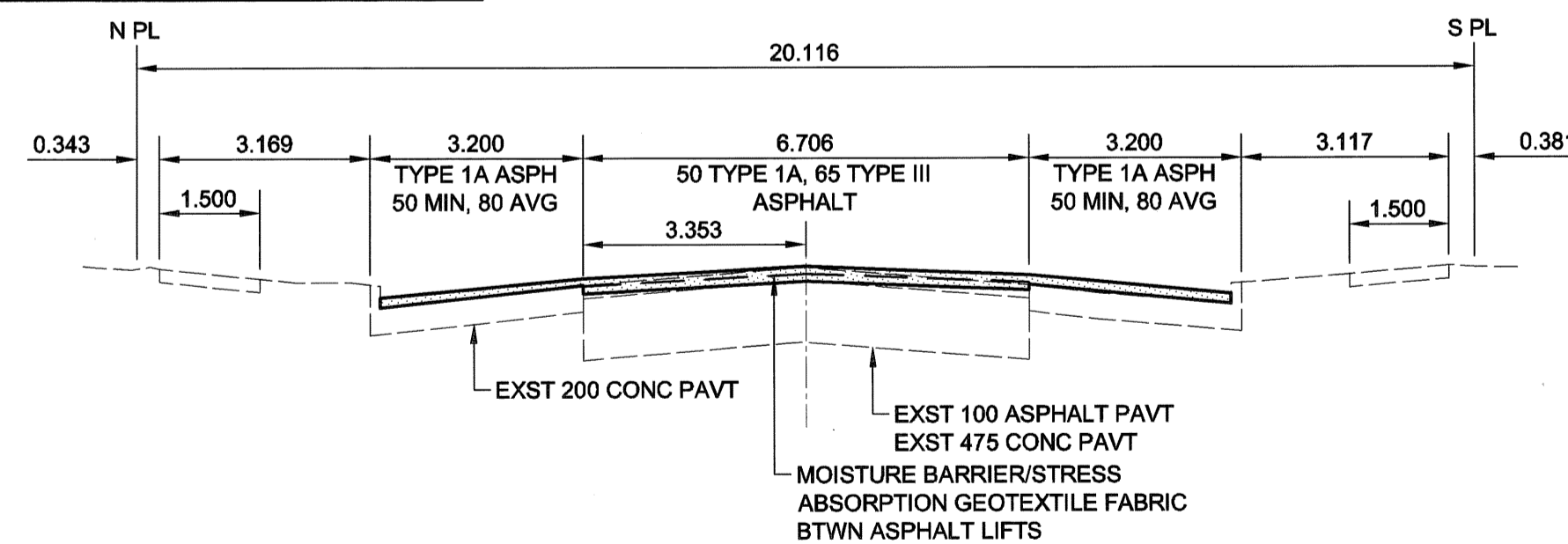
GEODETTIC BENCH MARK-VERTICAL CONTROL POINTS

GBM.	LOCATION	ELEVATION
26-030	SE Cor Main St & Redwood Ave, Tilt in N Conc foundation of Bldg known as Holy Family Nursing Home, 5.8m W of NE Cor of Bldg & 0.2m below bottom of metal doors	231.995m



COORDINATE LAYOUT-SOUTH SIDE PAVT BOC

DESCRIPTION	STATION	O/S FROM CL	NORTHING	EASTING
POT	0+415.382	3.750 R	743.757	1050.693
PC	0+427.514	3.750 R	731.864	1053.093
PT	0+480.418	4.452 R	679.919	1060.762
POC	0+451.401	4.043 R	708.472	1057.238
PT	0+458.967	11.693 R	699.911	1050.860
PC	0+466.770	11.952 R	692.333	1051.690
POC	0+474.561	4.370 R	685.696	1060.184
PCC	0+477.587	4.413 R	682.712	1060.491
PRC	0+480.658	5.486 R	679.572	1059.760
PT	0+483.714	6.540 R	676.459	1059.027



CIRCULAR CURVE DATA

CURVE	LENGTH	RADIUS	DELTA	TANGENT
C1	52.532	500.000	6°01'11"	26.290
C2	52.532	500.000	6°01'11"	26.290
C3	11.879	7.500	90°44'51"	7.598
C4	14.703	10.000	84°14'22"	9.042
C5	12.028	7.500	91°53'04"	7.751
C6	6.504	4.000	93°09'39"	4.227
C7	3.142	2.000	90°00'00"	2.000
C8	1.692	0.750	129°17'00"	1.582
C9	3.283	5.000	37°37'15"	1.703
C10	3.255	5.000	37°17'58"	1.688
C11	5.891	7.500	45°00'22"	3.107

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.

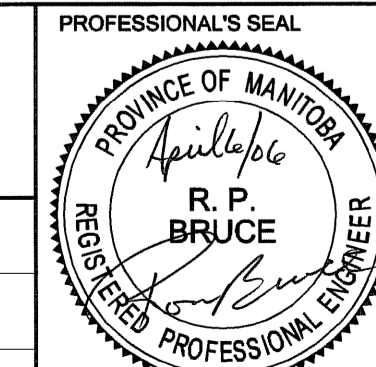
NO.	REVISIONS	DATE	BY
0	ISSUED FOR CONSTRUCTION	06/04/10	DID

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

UMA | AECOM

© 2006 UMA ENGINEERING LTD. ALL RIGHTS RESERVED.

DESIGNED BY	WRJ	CHECKED BY	RFB
DRAWN BY	DID	APPROVED BY	BWB
HOR. SCALE	AS SHOWN	RELEASED FOR CONSTRUCTION	DATE APRIL 6 2006
VERT. SCALE	AS SHOWN	CONSULTANT DRAWING NO.	0265-380-00-01-CT1001_RX



THE CITY OF WINNIPEG
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

**HESPELER AVENUE
GLENWOOD CRESCENT TO
HENDERSON HIGHWAY
STREET RENEWAL**

ABBREVIATIONS, KEY PLAN, DRAWING LIST, HORIZONTAL AND VERTICAL CONTROL, GEOMETRIC LAYOUT

CITY DRAWING NUMBER	P-3264-01
SHEET	1 OF 5
DRAWING No.	01
REV	0