Profile grid elevations (left and right axes): 232.40, 232.20, 232.00, 231.80, 231.60, 231.40, 231.20, 231.00, 230.80

Stationing: 5+00, 5+50, 6+00

Profile callouts:
- LP STA 5+48.42 EL = 31.390
- STA 5+20.00 EL = 31.794
- STA 5+24.87 EL = 31.780
- HP STA 5+48.88 EL = 31.683
- STA 5+35.42 EL = 31.836
- STA 5+49.02 EL = 31.876
- PROPOSED SOUTH SIDEWALK
- EXISTING SOUTH PROPERTY LINE
- EXISTING NORTH PROPERTY LINE
- HP STA 5+99.77 EL = 31.429
- STA 6+26.00 EL = 31.782
- 1.58%
- STA 6+31.28 EL = 31.751
- HP STA 6+36.82 EL = 31.614
- STA 6+36.82 EL = 31.614
- 0.04% 0.30% 0.30% 0.41% 0.43% 0.50% 0.50% 0.50% 0.50% 0.18%
- HP STA 5+48.88 EL = 31.608
- STA 5+99.79 EL = 31.669
- EXISTING ROADWAY CENTRELINE
- EXISTING SOUTH GUTTER
- EXISTING NORTH GUTTER
- 0.61% 0.61% 0.17%
- PROPOSED NORTH/SOUTH GUTTER
- PROPOSED ROADWAY CENTRELINE
- PROPOSED NORTH SWALE
- LP STA 5+00.42 EL = 31.315
- LP STA 5+99.77 EL = 31.354
- LP STA 5+99.77 EL = 31.330
- HP STA 6+36.82 EL = 31.539
- STA 6+38.74 EL = 31.770

Plan view:

HIGGINS AVENUE

MATCHLINE STA. 4+95, SEE DWG C-03
MATCHLINE STA. 6+40, SEE DWG C-05

- REMOVE EXISTING CATCH BASIN AND ABANDON EXISTING LEAD
- INSTALL 1800 CATCH BASIN AS PER SD-024 c/w BARRIER CURB AND GUTTER INLET FRAME AND COVER RIM 31.315; N INV 27.790 c/w 250# PVC x 8.2m @ 37% CONNECT TO EXISTING 375 SRS @ INV±26.7 ADJUST MH RIM TO 31.375
- CAUTION: POSSIBLE CONTAMINATED SOIL CONTRACTOR TO NOTIFY THE CONTRACT ADMINISTRATOR AND FOLLOW SOIL MANAGEMENT PLAN IF CONTAMINATED SOIL IS ENCOUNTERED DURING EXCAVATION
- CAUTION GAS
- CAUTION FIBER
- REMOVE EXISTING CATCH BASIN AND ABANDON EXISTING LEAD
- GRAUTED RIP-RAP 3.0x3.0m
- INSTALL 900 CATCH PIT AS PER SD-023 c/w STANDARD FRAME AND GRATED COVER RIM 31.330; N INV 30.505 c/w 250# PVC x 3.5m @ 6% CONNECT TO PROPOSED CB @ INV±30.00
- INSTALL 1800 CATCH BASIN AS PER SD-024 c/w BARRIER CURB AND GUTTER INLET FRAME AND COVER RIM 31.354; N INV 29.829 c/w 250# PVC x 10.1m @ 35% CONNECT TO EXISTING 375 SRS @ INV±26.5
- MH 20017203 ADJUST MH RIM TO 31.436 RIM 231.75 INV E 228.26 INV W 228.26
- REMOVE EXISTING TRACKS AND TIES BY OTHERS
- EXISTING BELLMTS MH MATCH EXISTING GRADE
- R=200.00-FIBER
- R=192.50
- R=6.00
- 50 GAS
- CPR TEL
- 375 CLAY CS
- 375 PVC SRS
- 300 CI WM
- HYDRO
- ADJUST MH RIM TO 31.360 RIM 231.69 INV E 228.78
- INSTALL 1800 CATCH BASIN AS PER SD-024 c/w BARRIER CURB AND GUTTER INLET FRAME AND COVER RIM 31.315; S INV 27.790 c/w 250# PVC x 3.5m @ 86% CONNECT TO EXISTING 375 SRS @ INV±26.7
- INSTALL 150# X 6.0m SUBDRAINS IN EACH DIRECTION c/w PLUGGED ENDS AS PER CW 3120 (TYP.)
- CONSTRUCT 200mm REINFORCED CONCRETE APPROACH AS PER SD-232
- MATCH TO EXISTING GRADES (TYP.)
- RENEW EXISTING LIGHT STANDARD (BY OTHERS)
- #324 LIZZIE ST ATLAS GRAHAM FURGALE INDUSTRIES
- ADJUST MH RIM TO 31.355 RIM 231.62 INV E 226.49 INV W 226.50
- INSTALL 900 CATCH PIT AS PER SD-023 c/w BARRIER CURB AND GUTTER INLET FRAME AND COVER RIM 31.548; S INV 30.619 c/w 250# PVC x 8.0m @ 4.0% CONNECT TO PROPOSED CB @ INV±30.00
- INSTALL 1800 CATCH BASIN AS PER SD-024 c/w BARRIER CURB AND GUTTER INLET FRAME AND COVER RIM 31.294; S INV 29.949 c/w 250# PVC x 1.5m @ 168% CONNECT TO EXISTING 375 SRS @ INV±26.5
- CAUTION HYDRO
- RENEW EXISTING LIGHT STANDARD (BY OTHERS)
- CONSTRUCT 200mm REINFORCED CONCRETE APPROACH AS PER SD-232

CROSS SECTION A-A
NTS

NORTH / SOUTH
- 20.108
- 5.58
- 3.00 SWALE
- 0.95
- 3.75 WB LANE
- 10.50 ROADWAY
- 3.75 EB LANE
- 3.00 PARKING
- 5.66 MEDIAN & SIDEWALK
- 1.50 / 1.00
- N PROPERTY LINE
- S PROPERTY LINE
- EXISTING BUILDING
- RENEW EXISTING ASPHALT
- 50-TYPE 1A ASPHALT 100-20 BASE COURSE PREPARED SUBGRADE
- INSTALL BARRIER CURB INTEGRAL (180mm REVEAL) AS PER SD-204 (TYP.)
- 150 SUB DRAIN c/w STONE AND DRAINAGE FABRIC AS PER SD-245 (TYP.)
- 230 PLAIN-DOWELLED CONCRETE 100-20 LIMESTONE BASE COURSE 350-50 LIMESTONE SUB BASE SEPARATION GEOTEXTILE FABRIC PREPARED SUBGRADE
- INSTALL CONCRETE MEDIAN
- CONSTRUCT CONCRETE SIDEWALK AS PER SD-228A (TYP.)
- 3 COURSE RUNNING BAND 210x105x80mm HOLLAND CHARCOAL PAVER ON 16mm BEDDING SAND
- 0.45 0.30
- 2.0% 4.0% 2.0%

NOTES:
1. ALL WORK AND MATERIALS TO BE IN ACCORDANCE WITH THE LATEST REVISION OF THE CITY OF WINNIPEG STANDARD CONSTRUCTION SPECIFICATIONS.
2. CONTRACTOR TO CONFIRM THE LOCATION OF ALL UTILITIES/SERVICES IN THE FIELD PRIOR TO CONSTRUCTION.
3. ALL ROADWAY DIMENSIONS SHOWN ARE TO BACK OF CURB.
4. ADD 200.00 TO ABBREVIATED ELEVATIONS TO OBTAIN GEODETIC ELEVATION.
5. PAVEMENT REPAIRS SHOWN ARE ONLY A REPRESENTATIVE APPROXIMATION OF THE TENDERED QUANTITIES.
6. ALL PRIVATE WALKWAYS TO BE ADJUSTED TO NEW SIDEWALK OR TOP OF CURB ELEVATION, AS REQUIRED.
7. MODIFIED BARRIER CURB TO BE CONSTRUCTED AT ALL INTERSECTION RADII AND APPROACH RADII.
8. INSTALL 40MM LIP CURB THROUGH ALL APPROACHES UNLESS OTHERWISE NOTED.
9. CONTRACTOR TO TAKE PRECAUTIONARY STEPS TO PROTECT EXISTING TREES WITHIN THE LIMITS OF CONSTRUCTION FROM DAMAGE FROM CONSTRUCTION ACTIVITIES AS OUTLINED IN THE SPECIFICATIONS.
10. LAMP STANDARDS, HYDRO POLES, AND ANCHORS THAT REQUIRE TEMPORARY SUPPORT, REMOVAL OR REPLACEMENT, TO BE DONE SO AT THE EXPENSE OF THE CONTRACTOR AS NECESSARY.
11. ALL BOULEVARDS TO BE BACKFILLED WITH IMPORTED FILL MATERIAL TOPPED WITH LIMESTONE SURFACING MATERIAL UNLESS OTHERWISE NOTED LIMITS TO BE IDENTIFIED IN THE FIELD BY THE CONTRACT ADMINISTRATOR.
12. TRAFFIC SERVICES TO PAINT TRAFFIC LINES LANE MARKINGS (IF REQ'D).
13. CONTRACTOR TO CONFIRM LOCATION AND LIMITS OF SEWER REPAIRS BY PERFORMING VIDEO INSPECTION AND REVIEWING WITH CONTRACT ADMINISTRATOR PRIOR TO CONSTRUCTION.
14. ADJUST ALL WATER VALVES, HYDRANTS, MANHOLES, AND CATCH BASINS IN WORK AREA TO GRADE.
15. INSULATE ALL LONG-WATER SERVICES UNLESS OTHERWISE NOTED.
16. STREET LIGHTING RENEWAL TO BE COMPLETED BY MANITOBA HYDRO.
17. CONTRACTOR TO NOTIFY CONTRACT ADMINISTRATOR AND FOLLOW SOIL MANAGEMENT PLAN IF CONTAMINATED SOIL IS ENCOUNTERED DURING EXCAVATION.

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

Legend table:
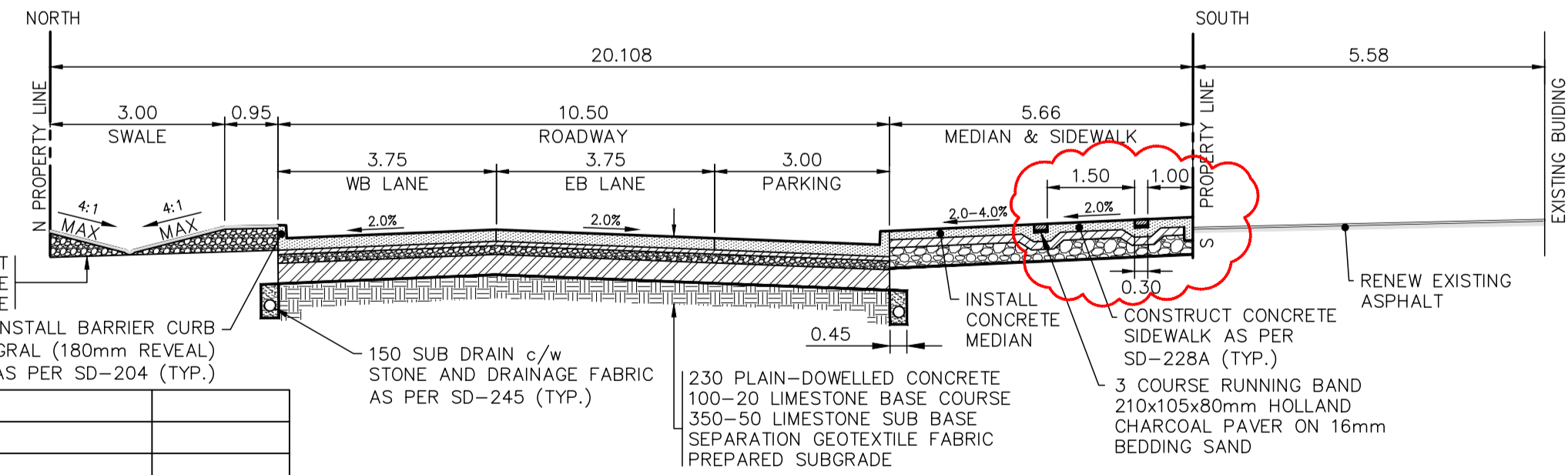
EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PROFILE	PROPOSED
	WATER MAIN			SWALE GRADE	31.255
	LAND DRAINAGE SEWER			SLOPE	
	WASTE WATER SEWER			DIRECTION FLOW	
	HYDRO			HYDRO POLE & LIGHT STANDARD	
	M.T.S.			LIGHT STANDARD OR TRAFFIC SIGNAL	
	GAS			HYDRO POLE	
	SIGNALS			CURB RAMP	
○	MANHOLE	●		DETECTABLE WARNING SURFACE TILE	
□	CATCH BASIN	■		EDGE OF SIDEWALK	
△	CURB INLET	▼		FENCE	
	UTILITIES ADJUSTED			PROPERTY LINE	NORTH PROPERTY LINE
⅃	PLUG	⅃		EDGE OF ASPHALT	SOUTH PROPERTY LINE
◇	HYDRANT	◆		EDGE OF CONCRETE	NORTH SIDEWALK
⊗	VALVE	⊗		MODIFIED BARRIER CURB	SOUTH SIDEWALK
	CURB STOP			BARRIER CURB	ROADWAY CENTRELINE
230.99	GROUND GRADE			CONC SIDEWALK	NORTH GUTTER
(31.000)	PAVEMENT GRADE	31.000		CONCRETE SLAB	SOUTH GUTTER
	ANCHOR			ASPHALT OVERLAY	NORTH SWALE
#111	CIVIC ADDRESS			BULLNOSE	

LOCATIONS APPROVED UNDERGROUND STRUCTURES
SIGNED BY:
SUPV U/G. STRUCTURES   DATE

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 EXISTANCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING.

Revision table:

NO.	REVISIONS	DATE	BY
H	-	-	-
G	-	-	-
F	-	-	-
E	-	-	-
D	ISSUED FOR ADDENDUM	2018-06-11	DS
C	ISSUED FOR TENDER	2018-05-29	DS
B	ISSUED FOR UGS REVIEW	2018-04-26	DS
A	ISSUE FOR CLIENT REVIEW	2018-04-13	DS

DESIGNED BY: DS   CHECKED BY: TP
DRAWN BY: SB   APPROVED BY: VM
HOR. SCALE 1:250   VERTICAL 1:25
RELEASED FOR CONSTRUCTION
DATE: 2018-02-15
CONSULTANT ACAD DWG. NO. 17M-01932-00-C09

THE CITY OF WINNIPEG
Winnipeg
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES DIVISION

2018/2019 INDUSTRIAL STREETS RENEWAL PROGRAM
HIGGINS AVENUE - HENRY AVE TO PRINCESS ST
PAVEMENT RECONSTRUCTION
STA. 4+95 TO STA. 6+40

CITY DRAWING NUMBER: --
SHEET 09 OF 12
BID NO. 85-2018