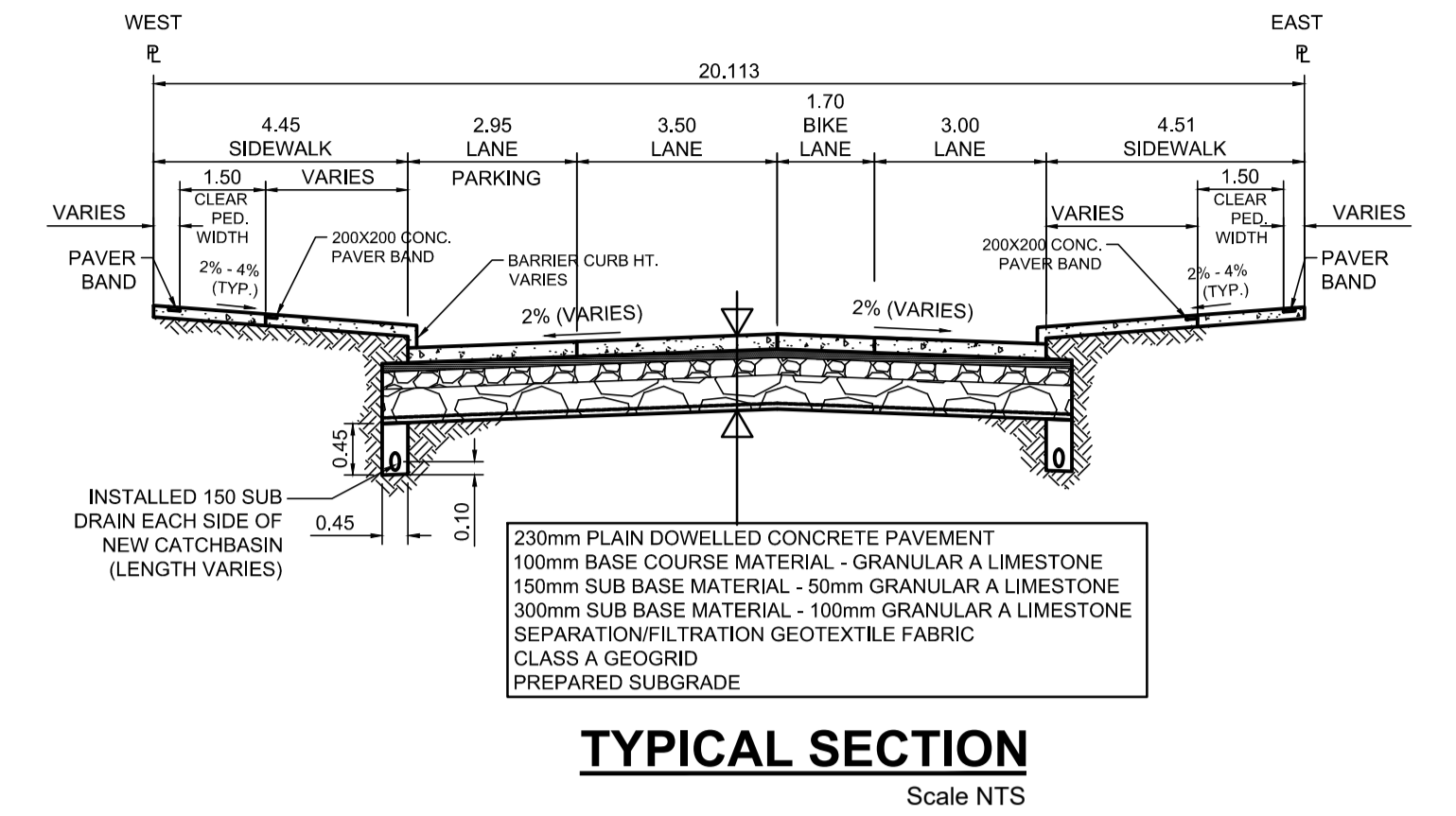


PROFILE
Scale H=1:250 V=1:10



TYPICAL SECTION
Scale NTS

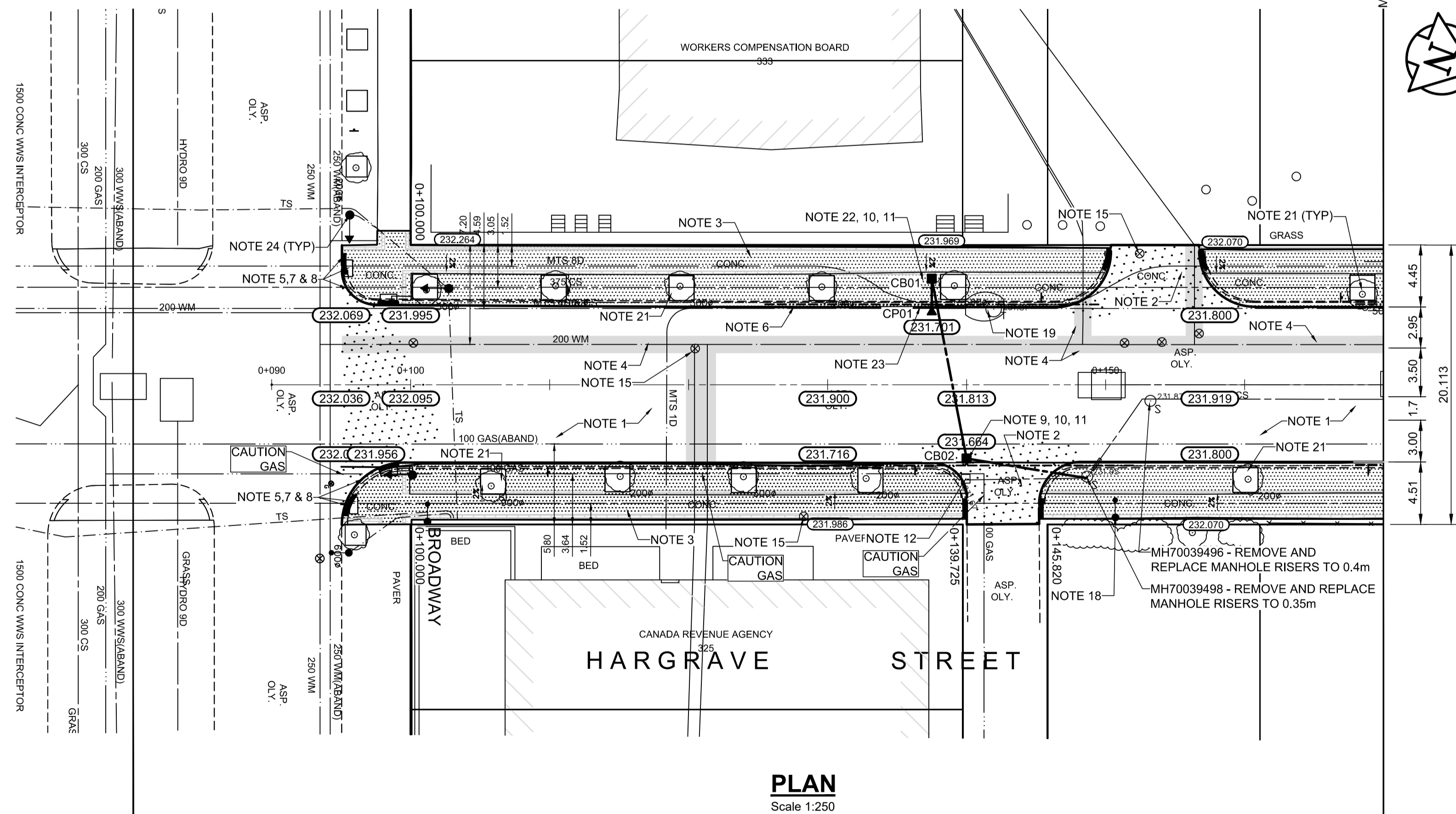
ITEM	RIM ELEV.	Sta	INVERT						CONNECTION	LEAD	FLOW RESTRICTOR
			EAST	WEST	NORTH	SOUTH	V.RISER	SEWER			
CB01	231.900	0+137.5	230.300						CB	13.0 m-2500 @ 2% Min	n/a
CB02	231.664E	0+140			230.064		230.000	227.00±	MANHOLE	6.0 m-2500 @ 2% Min	n/a
CP01	231.701	0+137.5		230.801							

REFERENCE NOTES

- A. PAVEMENT DIMENSIONS ARE TO BACK OF CURB
- B. BASELINE IS CENTRELINE OF RIGHT-OF-WAY
- C. PROPERTY LINES OBTAINED FROM THE CITY OF WINNIPEG L.B.I.S., AND SCALE FACTOR WAS NOT APPLIED
- D. REFER TO AECOM FIELD BOOK NO. 5062-5069.5072
- E. CATCH BASIN CONNECTIONS TO SEWER DESIGNED TO MAINTAIN PRE-CONSTRUCTION CAPACITY BY CATCH BASIN LEAD RESTRICTION AS INDICATED ON THE DRAWINGS. ADDITIONAL OR MODIFIED CONNECTIONS TO THE SEWER SYSTEM BEYOND THOSE INDICATED ON THE DRAWINGS REQUIRE REVIEW AND WRITTEN APPROVAL BY THE CONTRACT ADMINISTRATOR.

CONSTRUCTION NOTES

1. REMOVE EXISTING PAVEMENT AND CONSTRUCT NEW 230mm PLAIN DOWELED CONCRETE PAVEMENT
2. CONSTRUCT NEW 200mm REINFORCED CONCRETE PAVEMENT
3. REMOVE EXISTING CONCRETE SIDEWALK AND CONSTRUCT NEW 100mm SIDEWALK WITH BLOCKOUTS c/w PAVING STONES FOR INDICATOR SURFACE (REFER TO TYPICAL SECTION ON THIS SHEET AND CT-30 DETAILS FOR ADDITIONAL INFORMATION). CONTRACTOR TO SAW CUT AT PROPERTY LINE FULL LENGTH OF PROJECT
4. INSULATE WATER MAIN AND WATER SERVICES UNDER ROADWAY EXCAVATION AS PER (SD-18)
5. INSTALL NEW DETECTABLE SURFACE WARNING TILES
6. CONSTRUCT NEW BARRIER CURB (180mm HT. SEPARATE)
7. CONSTRUCT NEW MONOLITHIC CURB RAMP (10mm HT. INTEGRAL)
8. CONSTRUCT NEW MODIFIED BARRIER CURB (180mm HT. INTEGRAL) AS PER SD-2038 AT ALL STREET/LANE INTERSECTION RADII
9. INSTALL CATCHBASIN (SD024) CONNECT NEW 250mm LEAD TO EXISTING MANHOLE
10. INSTALL FLOW RESTRICTOR PIPE AS INDICATED IN CB & CP TABLE (SD-122)
11. INSTALL 150mm SUBDRAIN 12m ON EACH SIDE OF CATCHBASIN UNLESS OTHERWISE NOTED
12. REMOVE EXISTING CURB INLET / CATCH PIT / CATCHBASIN AND ABANDON EXISTING LEAD
13. REMOVE EXISTING FRAME AND COVER AND INSTALL NEW FRAME AND SOLID COVER (AP-006 & AP-007)
14. ADJUST EXISTING CATCHBASIN / MANHOLE FRAME AND COVER
15. ADJUST EXISTING WATERMAIN VALVE BOX TO GRADE
16. INSTALL NEW 50mm CAST IRON RISER RING
17. ADJUST EXISTING CURB STOP TO GRADE
18. EXISTING STREET LIGHT POLE TO BE RELOCATED (REFER TO STREET LIGHTING DRAWINGS FOR ADDITIONAL DETAILS)
19. ADJUST UTILITY MANHOLE FRAME REINFORCE ISOLATION WITH 15M BARS FOR ISOLATIONS IN ROADWAY AND 10M BARS FOR ISOLATIONS IN SIDEWALK
20. INSTALL BIKE RACK
21. PROTECT EXISTING TREE. CONSTRUCT OPENING IN CONCRETE SIDEWALK AND PLACE CRUSH GRANITE AROUND EXISTING TREES
22. INSTALL NEW CATCHBASIN (SD025) CONNECT NEW 250mm LEAD TO EXISTING COMBINED SEWER
23. INSTALL NEW CURB AND GUTTER INLET c/w CURB INLET BOX. CONNECT TO CATCHBASIN
24. EXISTING TRAFFIC SIGNALS POLE TO BE RELOCATED (REFER TO SIGNALS DRAWINGS FOR ADDITIONAL DETAILS)



PLAN
Scale 1:250

**ENGINEERS
GEO-SCIENTISTS
MANITOBA**
Certificate of Authorization
AECOM Canada Ltd.
No. 4671 Date: _____

METRIC

WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

150 mm W.M.	150 mm W.M.	HYDRO	PROFILE	LOCATION APPROVED
HYDRANT	HYDRANT	M.T.S.	WEST GUTTER	UNDERGROUND STRUCTURES
VALVE	VALVE	CONCRETE	EAST GUTTER	
LAND DRAINAGE SEWER	LAND DRAINAGE SEWER	ASPHALT	N/W PROPERTY LINE	
WASTEWATER SEWER	WASTEWATER SEWER	PROPERTY LINE	S/E PROPERTY LINE	
MANHOLE	MANHOLE	SURVEY BAR		
CATCH BASIN	CATCH BASIN	ELEVATION (35.750)		
CATCH PIT	CATCH PIT	TREE		
TRAFFIC SIGNAL POLE	TRAFFIC SIGNAL POLE	SIDEWALK RAMP		
STREET LIGHT	STREET LIGHT	CONCRETE SIDEWALK		
GAS	GAS	FENCE		
EXISTING	LEGEND - PLAN	PROPOSED	EXISTING	LEGEND - PROFILE

LOCATION APPROVED UNDERGROUND STRUCTURES

SUPV. UG 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.

B.M.	tbm	South East Corner of Smith Avenue & Broadway, property line, top of 1" x 1" iron bar
ELEV.	231.968	
NO.	REVISIONS	DATE BY
0	ISSUED FOR TENDER	2020/10/30 TLF
A	ISSUED FOR REVIEW	2020/10/23 TLF

AECOM

DESIGNED BY: TLF
CHECKED BY: TLF
DRAWN BY: PAAP
APPROVED BY: TLF

HOR. SCALE: AS SHOWN
VERTICAL: RELEASED FOR CONSTRUCTION BY: DATE

DATE: 2020/09/01

ENGINEER'S SEAL
PROVINCE OF MANITOBA
REGISTERED PROFESSIONAL ENGINEER
T.L. FINDLAY
Member 23820

THE CITY OF WINNIPEG
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

DOWNTOWN PAVEMENT RENEWAL PROJECT
2021 CONSTRUCTION

CITY DRAWING NUMBER P-3535-28
SHEET 28 OF 30

PLAN/PROFILE GRADING PLAN
HARGRAVE STREET
BROADWAY TO STATION 0+170

CONSULTANT DRAWING NO. CT-28