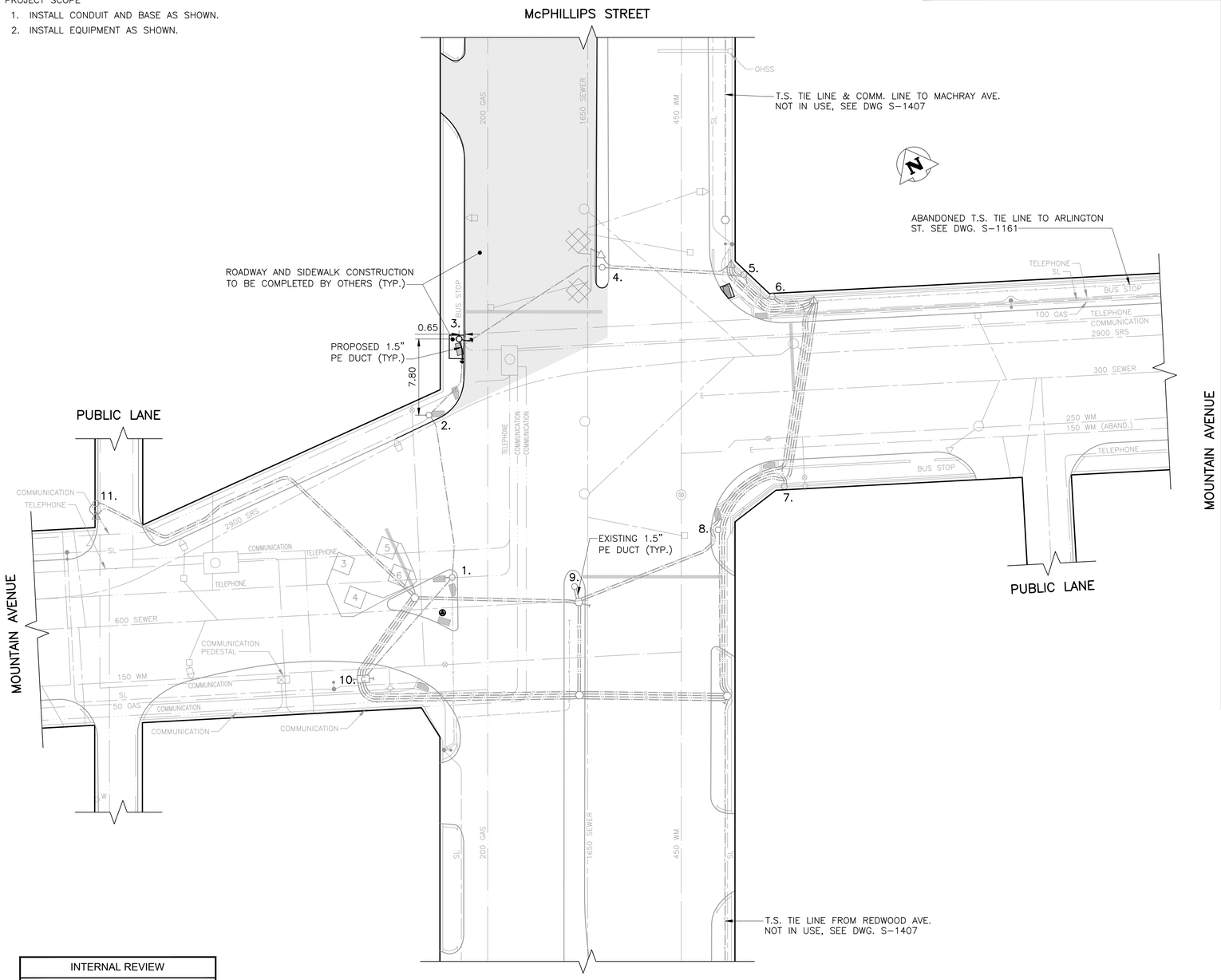
CONSTRUCTION NOTES:

PROJECT SCOPE

1. INSTALL CONDUIT AND BASE AS SHOWN.
2. INSTALL EQUIPMENT AS SHOWN.

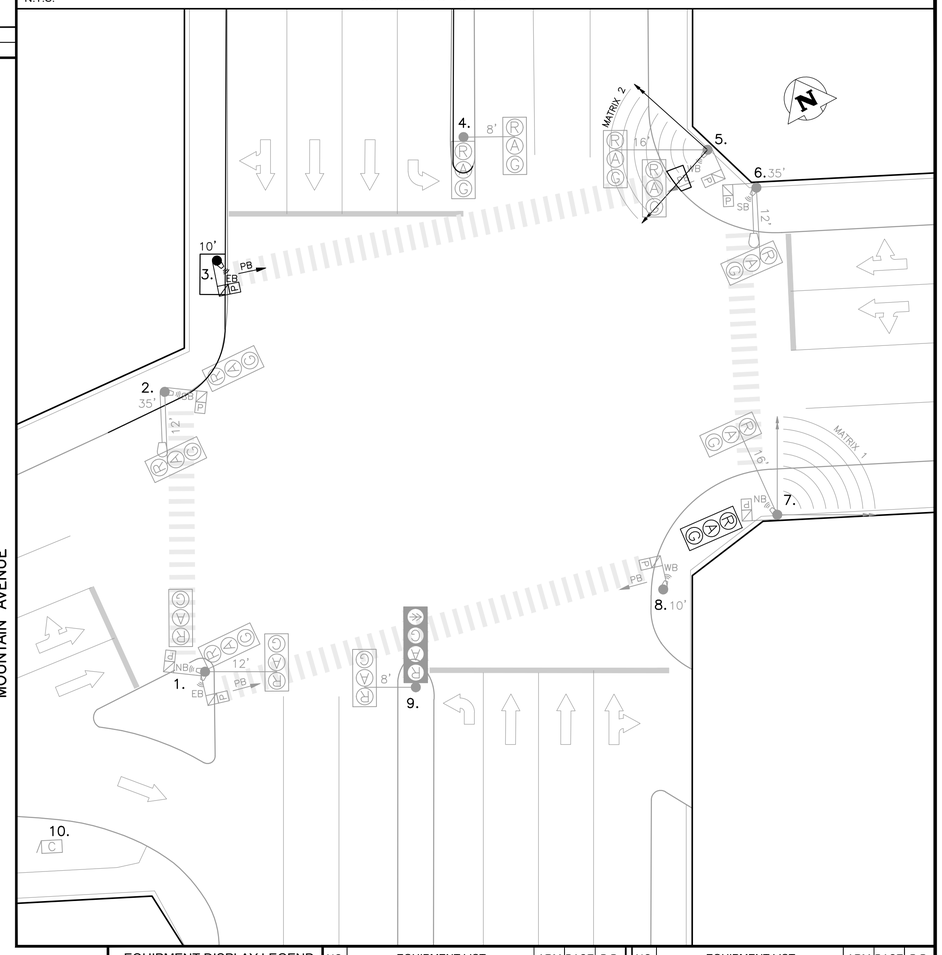
DETECTION CONNECTION DETAILS			
SENSOR NO.	POLE NO.	DETECTION LOCATION	NOTES
MATRIX 1	6	WB LANES	
MATRIX 2	5	SBL LANE	



PLAN VIEW: UNDERGROUND CONSTRUCTION

1:250

TRAFFIC SIGNALS EQUIPMENT DISPLAY:
N.T.S.



EQUIPMENT DISPLAY LEGEND
EXISTING
PROPOSED (AS SHOWN BELOW)
PEDESTRIAN HEAD WITH PCS
PEDESTRIAN CORRIDOR BOX (CIRCUIT 1/2/3/4)
RRFB (PHASE "A" OR "B")
VEHICLE DETECTION AREA
PUSH BUTTON & DIRECTION (APB = AUDIBLE PB)
APS SINGLE DIRECTION
APS DUAL DIRECTION (2 SEPARATE SPEAKERS)
TRAFFIC SIGNAL HEAD
TRAFFIC SIGNAL POLE
WOOD POST
ELECTRONIC DISPLAY
RED FLASHER
AMBER FLASHER
LUMINAIRE
CAMERA
LOW ARM (SHOWN FROM CENTRE) HIGH ARM (SHOWN FROM SIDE)

NO.	EQUIPMENT LIST	ARM	BASE	B.B.
1.	DAVIT	12'	A	A
2.	35' SIGNAL FOR 240 WATT (20000 LUMEN) LUMINAIRE	12'	A	A
3.	10' SIGNAL		G	G
4.	DAVIT	8'	A	AD
5.	CANTILEVER	16'	G	GC
6.	35' SIGNAL FOR 240 WATT (20000 LUMEN) LUMINAIRE	12'	G	GD
7.	DAVIT	16'	A	AD
8.	10' SIGNAL		A	A
9.	DAVIT	8'	A	AD
10.	332 CABINET/170 CONTROLLER			
11.	HYDRO WOOD #0090678 SERVICE:			

TRAFFIC SIGNALS UNDERGROUND LEGEND

EXISTING / ABANDONED / PROPOSED (AS SHOWN BELOW) / DISCONNECTED (LOOPS ONLY)

1 1/2" PE CONDUIT — 2" PE CONDUIT — 4" PVC CONDUIT — AERIAL / BURIED CABLE — CONDUIT STUB — BREAK-IN — SPLICE — SAW-CUT LOOPS — PREFORMED LOOPS

POLE BASE — WOOD POST — CONTROLLER BASE — PEDESTAL BASE — TERMINAL BASE — SERVICE BOX (PIT) — 24" PRECAST PIT — 30" PRECAST PIT — 36" PRECAST PIT — REMOVAL

SIGNAL BASE BOLT SQUARE TYPES

BOLT SQUARE (B.S.) — DIA.

TYPE "A" - 8 1/8"
TYPE "B" - 6 3/4"
TYPE "C" - 8 1/8" SCREW TYPE
TYPE "D" - 12 3/4", 1 1/4" DIA. BOLTS, 24" DIA.
TYPE "OD" - 12 3/4", 1 1/4" DIA. BOLTS, 28" DIA.
TYPE "POD" - 12 3/4", PRECAST, 1 1/4" DIA. BOLTS, 28" DIA.
TYPE "E" - 9 9/16" SCREW TYPE
TYPE "F" - 9 9/16"
TYPE "G" - 8 1/8", 1 1/4" DIA. BOLTS, 89mm PROJ.
TYPE "GS" - 8 1/8", 1 1/4" DIA. BOLTS, 76mm PROJ.
TYPE "PG" - 8 1/8", PRECAST, 1 1/4" DIA. BOLTS
TYPE "H" - 9 7/8" SCREW TYPE
TYPE "I" - 7 3/4"
TYPE "J" - 10 5/8", 1 1/4" DIA. BOLTS
TYPE "K" - 10 5/8", PRECAST, 1 1/4" DIA. BOLTS
TYPE "L" - 6", 5/8" DIA. BOLTS
TYPE "PM" - 8 1/8", PRECAST, 5/8" DIA. BOLTS

INTERNAL REVIEW

		DATE	INITIALS
OPERATIONS:			
LAB:	REQUIRE IFC DWG?	DATE	INITIALS
TIMINGS (INITIAL):	NEW TIMINGS?	DATE	INITIALS
TIMINGS (PRE-IFC):	NEW TIMINGS?	DATE	INITIALS
TMC:		DATE	INITIALS
UNDERGROUND CONSTRUCTABILITY:		DATE	INITIALS
STREET LIGHTING:		DATE	INITIALS
TRAFFIC MANAGEMENT:		DATE	INITIALS

EXISTING	LEGEND	PROPOSED	EXISTING	LEGEND	PROPOSED	EXISTING	LEGEND	PROPOSED
150 WM	WATERMAIN	150 WM		PROPERTY LINE		TELEPHONE	TELEPHONE	TELEPHONE
	HYDRANT			ROADWAY		COMMUNICATION	COMMUNICATION	COMMUNICATION
	VALVE			SIDEWALK			WOOD POLE	
	SHUTOFF VALVE			CURB & CURB RAMP			STREET LIGHT	
300 SEWER	SEWER	300 SEWER		WARNING TILE			BANNER POLE	
	MANHOLE			CULVERT			RAILWAY POLE	
	CATCH BASIN			BUILDING			GUY-WIRE	
	CURB INLET			TREE			FENCE	
HYDRO	HYDRO	HYDRO	100 GAS	GAS	100 GAS		GUARDRAIL	

UNDERGROUND STRUCTURES

UNDERGROUND STRUCTURES ID — DATE (YYYY/MM/DD)

WATER & WASTE REVIEW ID

NOTE:
LOCATIONS 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.

CONSTRUCTION REVISIONS

NO.	REVISION	DATE (YYYY/MM/DD)	BY
A	ISSUED FOR INTERNAL REVIEW	2023/01/25	A.B.

A.B. — DESIGNED BY
A.B. — DRAWN BY
C.H. — CHECKED BY
APPROVED BY

ACCOUNTS:
PENDING

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ENGINEER'S SEAL:

PRELIMINARY
NOT FOR CONSTRUCTION

Winnipeg

THE CITY OF WINNIPEG
PUBLIC WORKS DEPARTMENT
TRANSPORTATION DIVISION

TRAFFIC SIGNALS
McPHILLIPS ST. & MOUNTAIN AVE.

UNITS:
ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED

DRAWING NUMBER:
S-1329

V:\Traffic Signals\01 Intersections\McPhillips & Mountain S-1329\00 Design\2023 Construction\McPhillips & Mountain S-1329.dwg