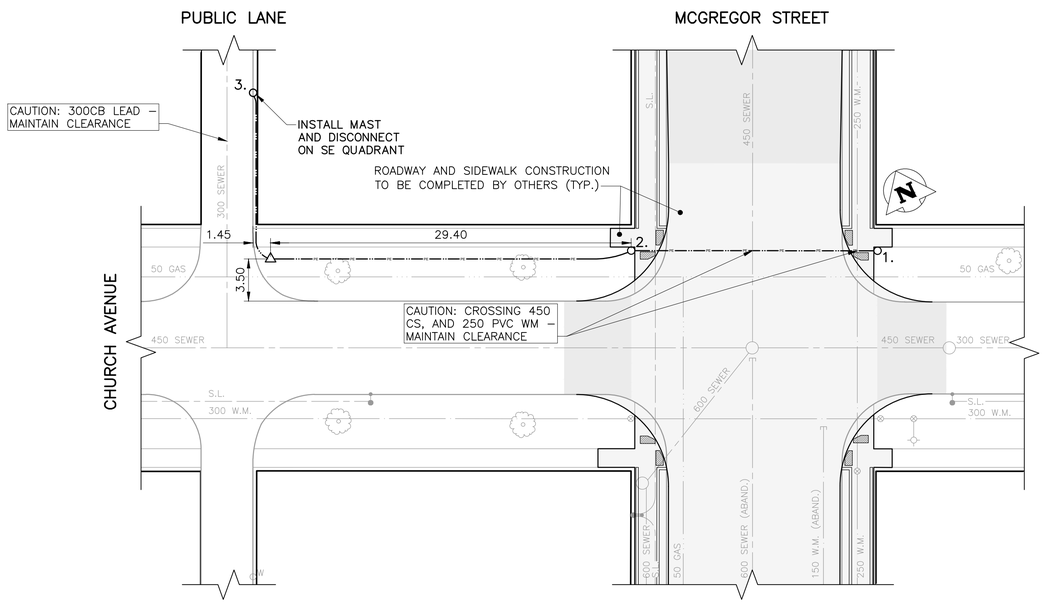
CONSTRUCTION NOTES:

PROJECT SCOPE

1. INSTALL CONDUIT, BASES AND PITS AS SHOWN.
2. INSTALL SERVICE AND GROUND ROD ON WOOD POLE #3 AS SHOWN. INSTALL MAST AND DISCONNECT ON SE QUADRANT. INSTALL WEATHER HEAD 150mm LOWER THAN THE LOWEST HYDRO WIRE. TOTAL LENGTH OF SERVICE CABLE: 29m.
3. INSTALL EQUIPMENT AS SHOWN.
4. CROSSING TIME FOR CROSSWALK: 24 SECONDS.

PROJECT COORDINATION

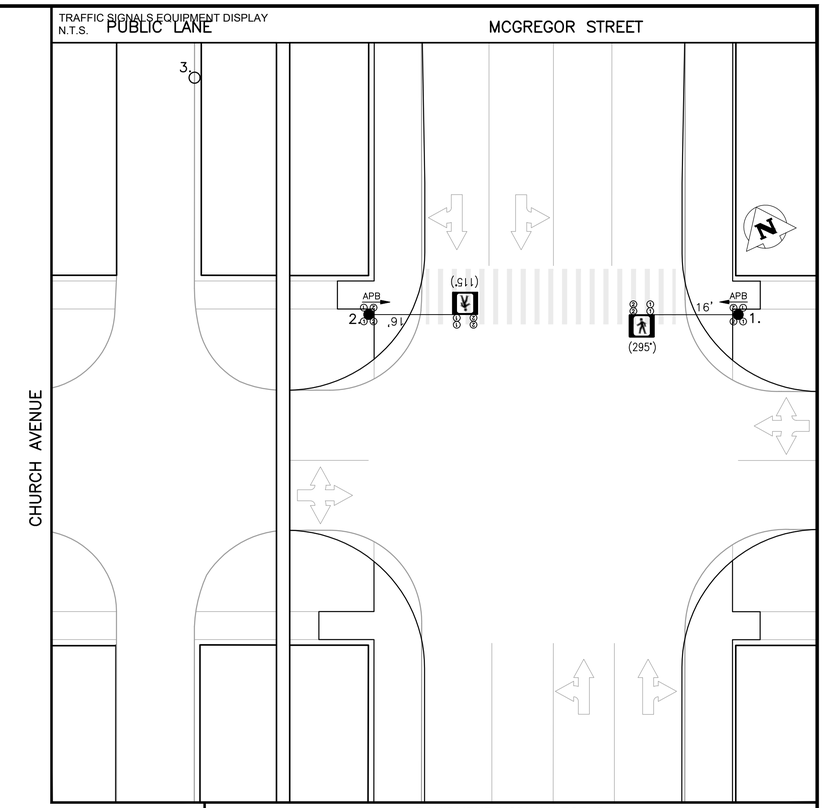
1. COORDINATE WORK WITH GWEN COOLIDGE, (204) 977-8370.
2. COORDINATE HYDRO SERVICE INSTALLATION WITH JILL SITAR, (204) 360-5718. RE: JUTA PERMIT No. B25959



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

NO.	EQUIPMENT LIST	ARM	BASE	B.B.	NO.	EQUIPMENT LIST	ARM	BASE	B.B.
1.	CANTILEVER	16'	OD	DC					
2.	CANTILEVER	16'	OD	DC					
3.	HYDRO WOOD #0091143								
	SERVICE:								

UGS REVIEW NOTES

GENERAL:

1. INSTALL NEW CONDUITS MINIMUM 1.0m BELOW EXISTING GRADE
2. EXCAVATION PERMITS REQUIRED PRIOR TO CONSTRUCTION
3. CONTACT "CLICK BEFORE YOU DIG MANITOBA" AT ClickBeforeYouDigMB.com THREE FULL WORKING DAYS PRIOR TO CONSTRUCTION FOR LOCATION OF EXISTING WATER, WASTEWATER AND LAND DRAINAGE UTILITIES.

WATER AND WASTE DEPARTMENT:

A MINIMUM CLEARANCE OF 1.0 METER MUST BE PROVIDED BETWEEN THE UNDERSIDE OF ANY EXISTING WATERMAIN OR SEWERMAIN AND THE TOP OF THE PROPOSED WORKS. THIS INSTALLATION BY TRENCHLESS METHOD ONLY.

A MINIMUM CLEARANCE OF 0.5 METERS MUST BE PROVIDED BETWEEN THE UNDERSIDE OF THE PROPOSED WORKS AND THE TOP OF ANY EXISTING WATERMAIN OR SEWERMAIN.

A MINIMUM LATERAL CLEARANCE OF 2.0 METERS MUST BE PROVIDED BETWEEN ANY EXISTING WATERMAIN OR SEWERMAIN PIPE AND THE PROPOSED WORKS.

A SHAFT MUST BE EXCAVATED BY SOFT DIG METHODS 4.0 METERS FROM THE CENTRELINE OF THE EXISTING WATERMAIN OR SEWERMAIN PIPE TO CONFIRM THE ALIGNMENT AND ELEVATION OF THE DRILLING ROD BEFORE IT CROSSES OVER OR UNDER THE EXISTING WATERMAIN OR SEWERMAIN PIPE. THIS CONFIRMATION MUST BE WITNESSED BY A CITY REPRESENTATIVE.

TRAFFIC SIGNALS UNDERGROUND LEGEND

EXISTING — PROPOSED (AS SHOWN BELOW)
ABANDONED — 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

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		OW	WOOD POLE	OW
	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

2022960 — UNDERGROUND STRUCTURES ID
2022/09/06 — DATE (YYYY/MM/DD)
2022W0953 — 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
0	ISSUED FOR UGS REVIEW	2022/08/29	A.B.

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

ACCOUNTS:

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ENGINEER'S SEAL:

PRELIMINARY
NOT FOR CONSTRUCTION

Winnipeg

THE CITY OF WINNIPEG
PUBLIC WORKS DEPARTMENT
TRANSPORTATION DIVISION

PEDESTRIAN CORRIDOR
CHURCH AVE. & MCGREGOR ST.

UNITS: ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED

DRAWING NUMBER: S-2172

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