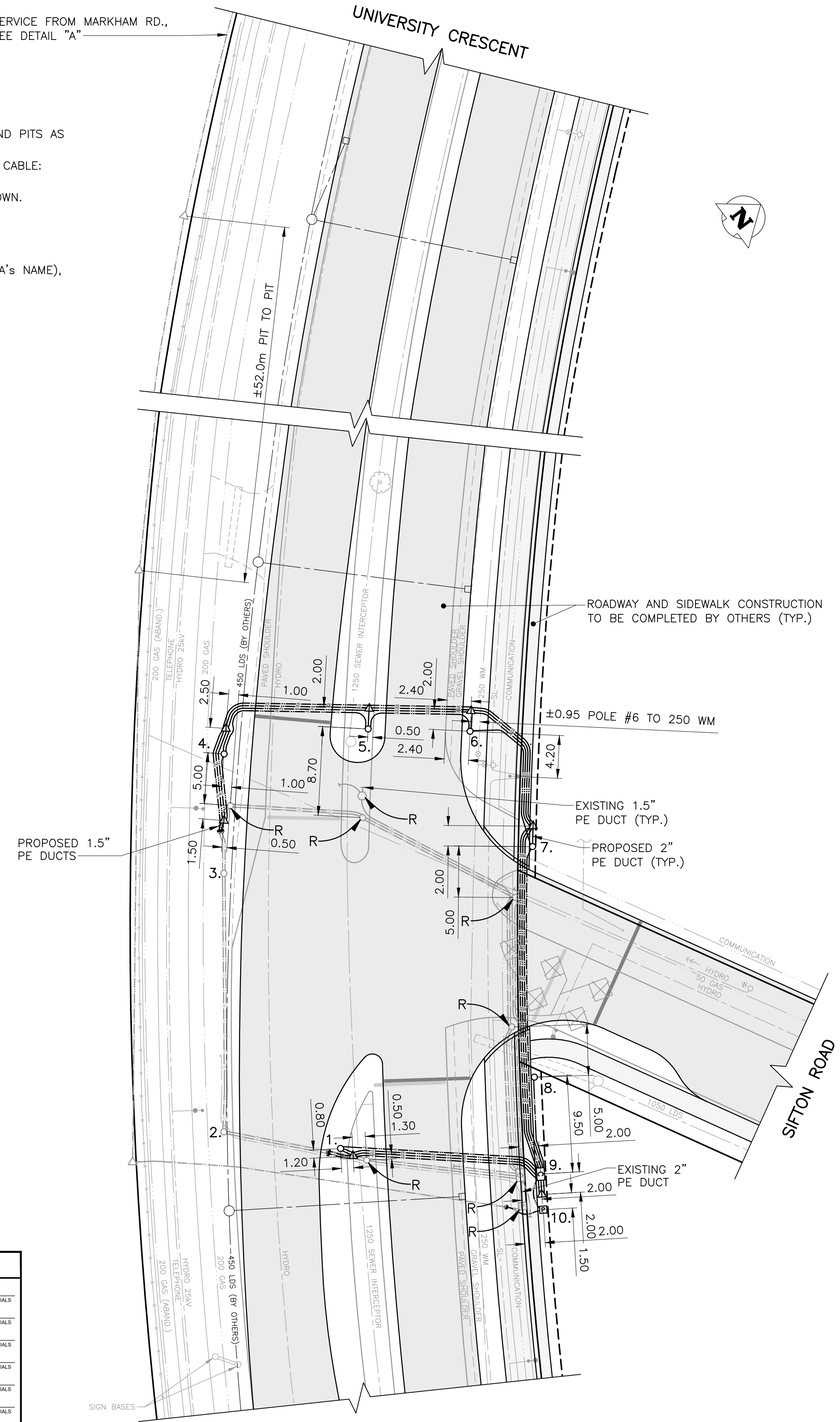
CONSTRUCTION NOTES:

PROJECT SCOPE

1. INSTALL CONDUIT, BASES AND PITS AS SHOWN.
2. TOTAL LENGTH OF SERVICE CABLE: 45m.
3. INSTALL EQUIPMENT AS SHOWN.
4. TIMINGS REQUIRED.

PROJECT COORDINATION

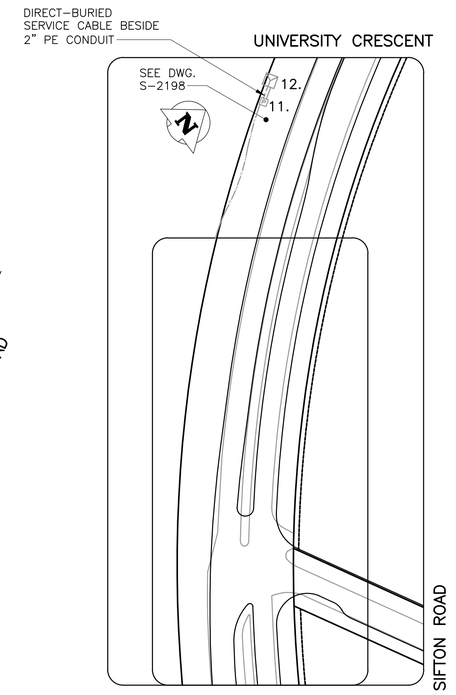
1. COORDINATE WORK WITH (CA's NAME), (204) XXX-XXXX.



PLAN VIEW: UNDERGROUND CONSTRUCTION

1:300

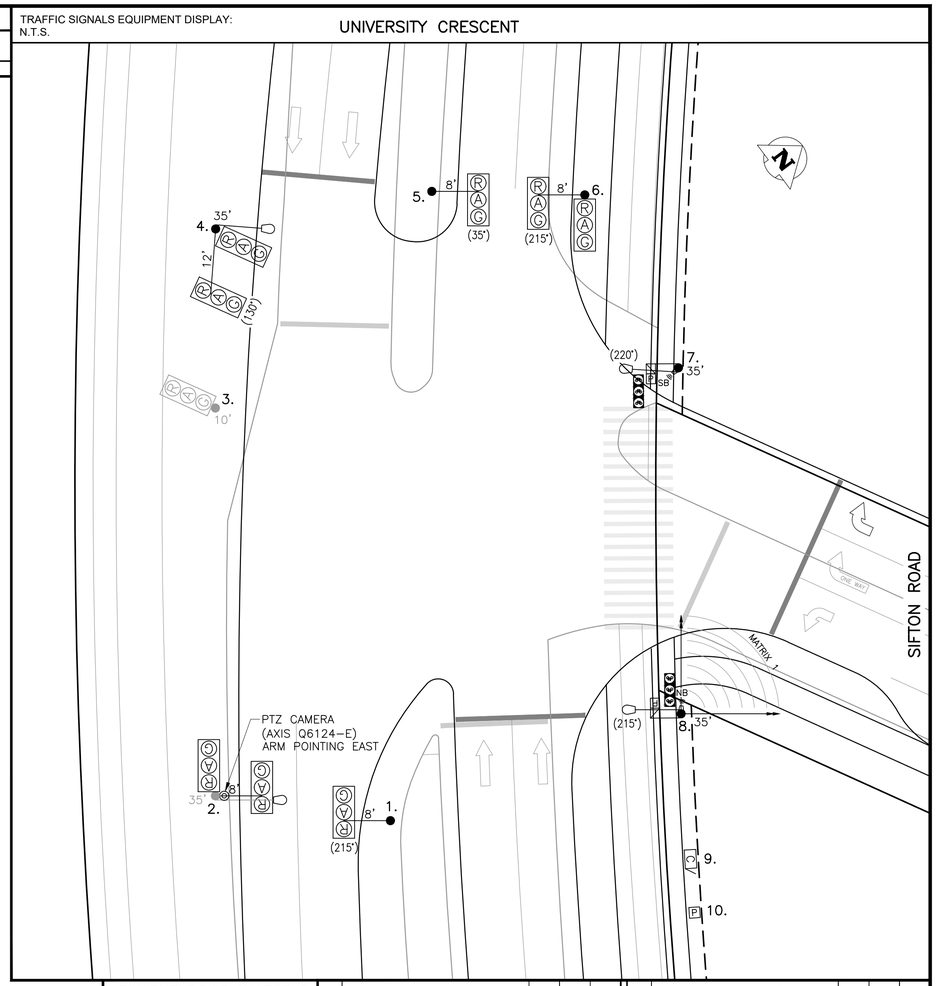
DETECTION CONNECTION DETAILS			
SENSOR NO.	POLE NO.	DETECTION LOCATION	NOTES
MATRIX 1	8		



DETAIL "A": SERVICE KEY PLAN

1:1000

TRAFFIC SIGNALS EQUIPMENT DISPLAY:
N.T.S.



EQUIPMENT DISPLAY LEGEND

- EXISTING
- PROPOSED (AS SHOWN BELOW)
- PEDESTRIAN HEAD WITH PCS
- PEDESTRIAN CORRIDOR BOX
- 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 (1/2/3/4 = CIRCUIT NUMBER)
- LUMINAIRE
- CAMERA
- LOW ARM (SHOWN FROM CENTRE)
- HIGH ARM (SHOWN FROM SIDE)

NO.	EQUIPMENT LIST	ARM	BASE	B.B.
1.	CANTILEVER	8'	OD	DC
2.	35' SIGNAL FOR 240 WATT (20000 LUMEN) LUMINAIRE AND PTZ CAMERA	8'	A	AD
3.	10' SIGNAL		A	A
4.	35' SIGNAL FOR 240 WATT (20000 LUMEN) LUMINAIRE	12'	OD	DD
5.	CANTILEVER	8'	OD	DC
6.	CANTILEVER	8'	OD	DC
7.	35' SIGNAL FOR 240 WATT (20000 LUMEN) LUMINAIRE		OD	DD
8.	35' SIGNAL FOR 240 WATT (20000 LUMEN) LUMINAIRE		OD	DD

NO.	EQUIPMENT LIST	ARM	BASE	B.B.
9.	332 CABINET/2070 CONTROLLER			
10.	DISCONNECT PEDESTAL			
11.	DISCONNECT PEDESTAL 1-BREAKER FOR INTERSECTION 1-BREAKER FOR S-2198			
12.	HYDRO TRANSFORMER 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

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

TIMINGS (INITIAL):	NEW TIMINGS?	DATE	INITIALS
TIMINGS (PRE-IFC):	NEW TIMINGS?	DATE	INITIALS
OPERATIONS:	DAYS REQUIRED	DATE	INITIALS
UNDERGROUND CONSTRUCTABILITY:	DAYS REQUIRED	DATE	INITIALS
LAB:	REQUIRE IFC DWG? / DAYS REQUIRED	DATE	INITIALS
TMC:		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

PENDING
UNDERGROUND STRUCTURES ID

DATE (YYYY/MM/DD)

PENDING
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	2024/02/06	R.S.

C.H./R.S.
DESIGNED BY
R.S.
DRAWN BY
C.H.
CHECKED BY
APPROVED BY

ACCOUNTS:
WT PENDING

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ENGINEER'S SEAL:
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NOT FOR CONSTRUCTION

Winnipeg

THE CITY OF WINNIPEG
PUBLIC WORKS DEPARTMENT
TRANSPORTATION DIVISION

TRAFFIC SIGNALS
SIFTON RD. & UNIVERSITY CRES.

UNITS:
ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED

DRAWING NUMBER:
S-1910

V:\Traffic Signals\01 Intersection\Sifton & University S-1910\02 Design\Preliminary_S(Revs & University S-1910).dwg