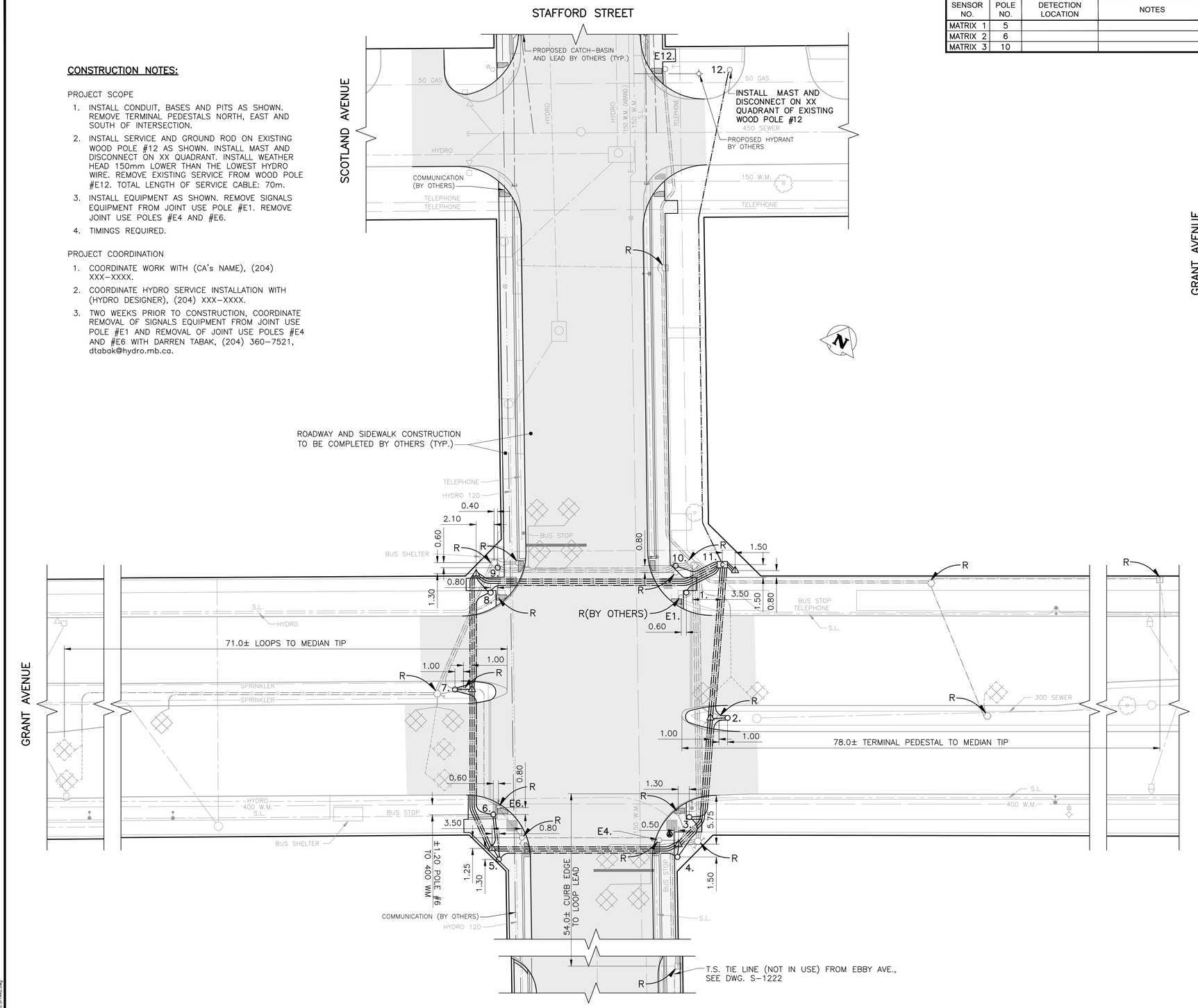
CONSTRUCTION NOTES:

PROJECT SCOPE

1. INSTALL CONDUIT, BASES AND PITS AS SHOWN. REMOVE TERMINAL PEDESTALS NORTH, EAST AND SOUTH OF INTERSECTION.
2. INSTALL SERVICE AND GROUND ROD ON EXISTING WOOD POLE #12 AS SHOWN. INSTALL MAST AND DISCONNECT ON XX QUADRANT. INSTALL WEATHER HEAD 150mm LOWER THAN THE LOWEST HYDRO WIRE. REMOVE EXISTING SERVICE FROM WOOD POLE #E12. TOTAL LENGTH OF SERVICE CABLE: 70m.
3. INSTALL EQUIPMENT AS SHOWN. REMOVE SIGNALS EQUIPMENT FROM JOINT USE POLE #E1. REMOVE JOINT USE POLES #E4 AND #E6.
4. TIMINGS REQUIRED.

PROJECT COORDINATION

1. COORDINATE WORK WITH (CA's NAME), (204) XXX–XXXX.
2. COORDINATE HYDRO SERVICE INSTALLATION WITH (HYDRO DESIGNER), (204) XXX–XXXX.
3. TWO WEEKS PRIOR TO CONSTRUCTION, COORDINATE REMOVAL OF SIGNALS EQUIPMENT FROM JOINT USE POLE #E1 AND REMOVAL OF JOINT USE POLES #E4 AND #E6 WITH DARREN TABAK, (204) 360–7521, dtabak@hydro.mb.ca.



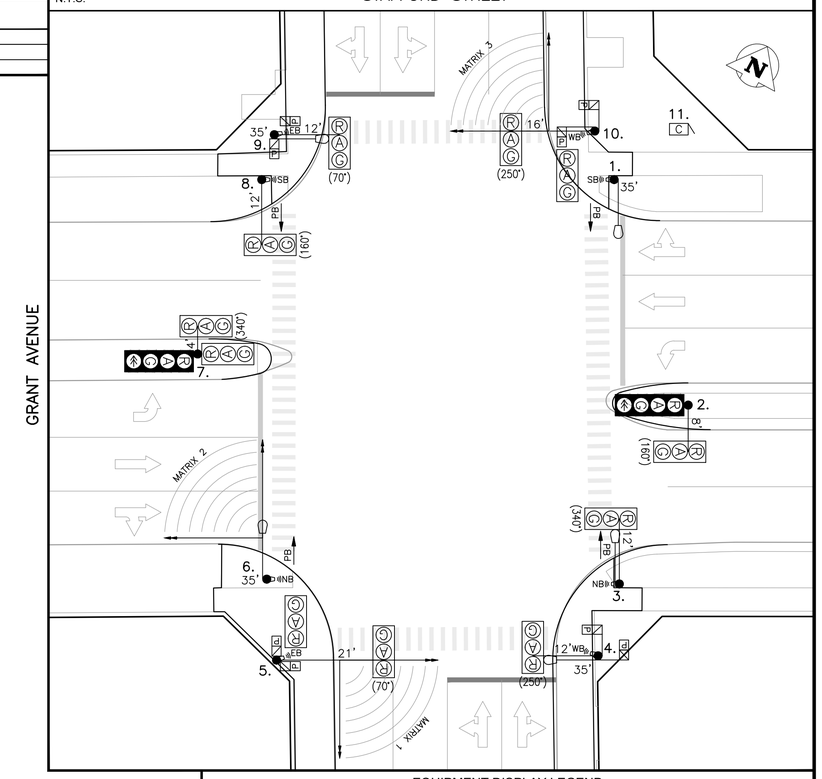
PLAN VIEW: UNDERGROUND CONSTRUCTION

1:250

DETECTION CONNECTION DETAILS

SENSOR NO.	POLE NO.	DETECTION LOCATION	NOTES
MATRIX 1	5		
MATRIX 2	6		
MATRIX 3	10		

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; AMBER FLASHER (CIRCUIT "A" OR "B"); LOW ARM (SHOWN FROM CENTRE); HIGH ARM (SHOWN FROM SIDE); RED FLASHER; LUMINAIRE; CAMERA

NO.	EQUIPMENT LIST	ARM	BASE	B.B.
1.	35' SIGNAL FOR XX WATT (XXXX LUMEN) LUMINAIRE		G	G
2.	CANTILEVER	12'	OD	DC
3.	35' SIGNAL FOR XX WATT (XXXX LUMEN) LUMINAIRE	12'	G	GC
4.	35' SIGNAL FOR XX WATT (XXXX LUMEN) LUMINAIRE	12'	OD	DC
5.	CANTILEVER	21'	OD	FIXED
6.	35' SIGNAL FOR XX WATT (XXXX LUMEN) LUMINAIRE AND DETECTION *BASE AT X.Xm DEPTH		G*	G
7.	CANTILEVER	4'	OD	DC
8.	CANTILEVER	12'	G	GC
9.	35' SIGNAL FOR XX WATT (XXXX LUMEN) LUMINAIRE	12'	G	GC
10.	CANTILEVER	16'	OD	DC
11.	332 CABINET/2070 CONTROLLER			
12.	HYDRO WOOD SERVICE:			
E1.	30' S.L. (TO BE REMOVED BY OTHERS)			
E4.	35' SIGNAL (TO BE REMOVED)			
E6.	35' SIGNAL (TO BE REMOVED)			
12.	HYDRO WOOD SERVICE (TO BE REMOVED) TIE LINE (BOX TO BE REMOVED)			

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; 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 "PD" - 12 3/4", PRECAST, 1 1/4" DIA. BOLTS
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			WOOD POLE	
300 SEWER	SEWER	300 SEWER		CURB & CURB RAMP			STREET LIGHT	
	MANHOLE			WARNING TILE			BANNER POLE	
	CATCH BASIN			SLOPE			RAILWAY POLE	
	CURB INLET			CULVERT			GUY-WIRE	
HYDRO	HYDRO	HYDRO		BUILDING			FENCE	
100 GAS	GAS	100 GAS		TREE			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
0	ISSUED FOR PRELIMINARY DESIGN		R.S.

DESIGNED BY: R.S.
DRAWN BY: R.S.
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
GRANT AVE. & STAFFORD ST.

UNITS: ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED

DRAWING NUMBER: S-1442

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