

APPENDIX 'E'

TRAFFIC SIGNALS DRAWINGS

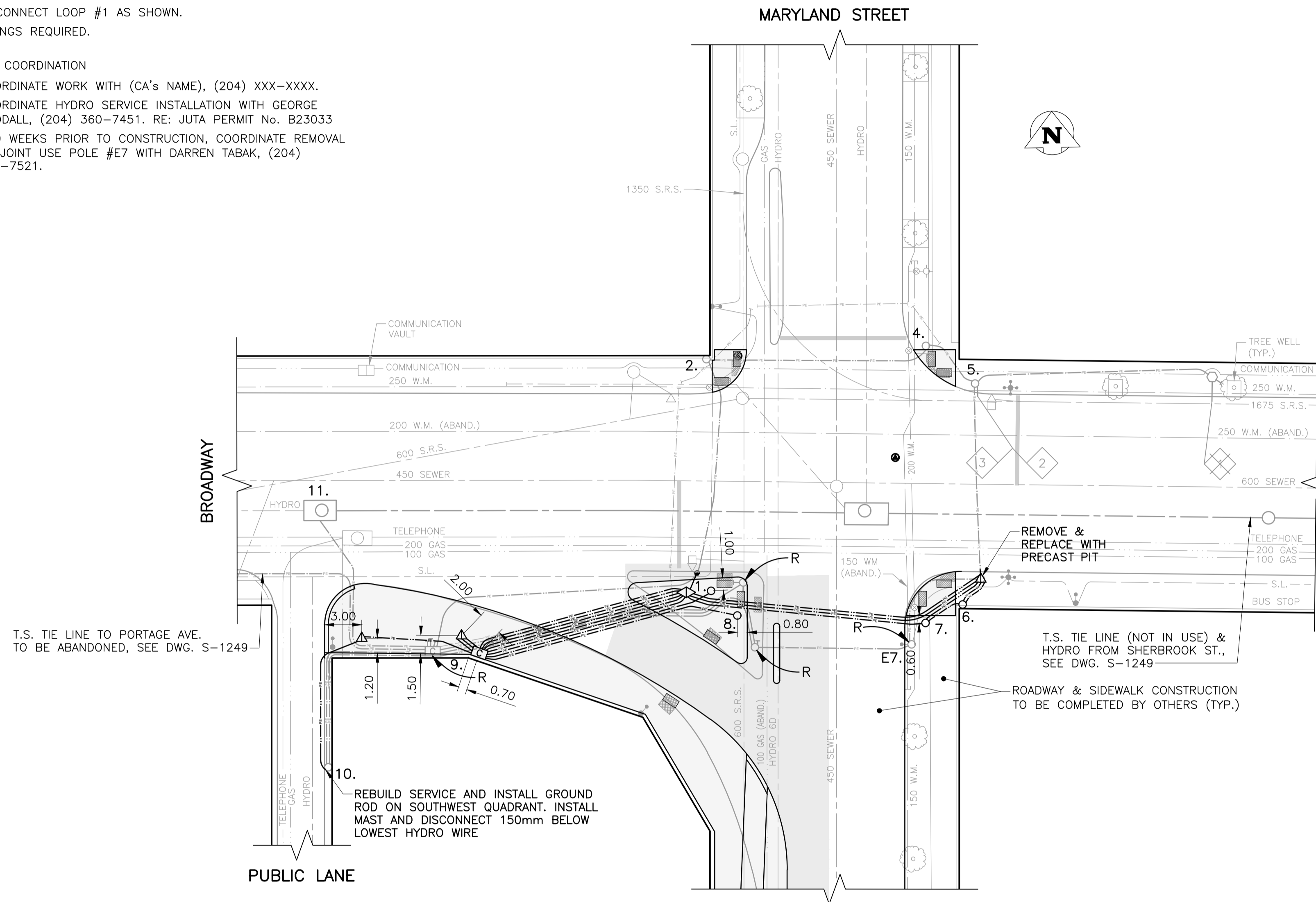
CONSTRUCTION NOTES:

PROJECT SCOPE

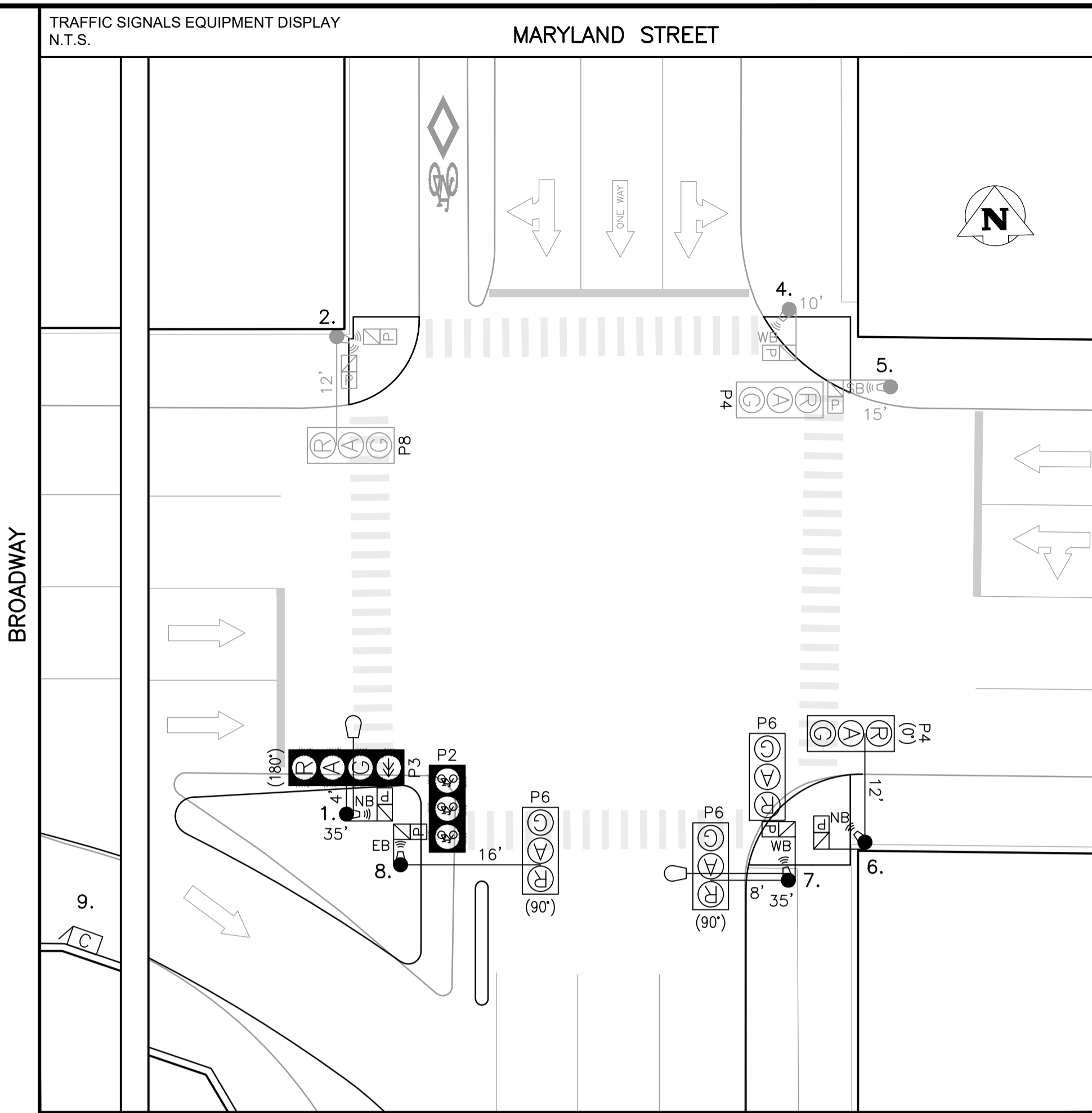
1. INSTALL CONDUIT AND BASES AS SHOWN.
2. REBUILD SERVICE AND INSTALL GROUND ROD ON SOUTHWEST QUADRANT AS SHOWN. INSTALL MAST AND DISCONNECT 150mm BELOW LOWEST HYDRO WIRE. TOTAL LENGTH OF SERVICE CABLE: 30m.
3. INSTALL EQUIPMENT AS SHOWN.
4. DISCONNECT LOOP #1 AS SHOWN.
5. TIMINGS REQUIRED.

PROJECT COORDINATION

1. COORDINATE WORK WITH (CA'S NAME), (204) XXX-XXXX.
2. COORDINATE HYDRO SERVICE INSTALLATION WITH GEORGE WEDDALL, (204) 360-7451. RE: JUTA PERMIT No. B23033
3. TWO WEEKS PRIOR TO CONSTRUCTION, COORDINATE REMOVAL OF JOINT USE POLE #E7 WITH DARREN TABAK, (204) 360-7521.



PLAN VIEW: UNDERGROUND CONSTRUCTION
1:250



EQUIPMENT DISPLAY LEGEND

	EXISTING		PROPOSED (AS SHOWN BELOW)
	EXISTING		PROPOSED (AS SHOWN BELOW)
	EXISTING		PROPOSED (AS SHOWN BELOW)
	EXISTING		PROPOSED (AS SHOWN BELOW)
	EXISTING		PROPOSED (AS SHOWN BELOW)
	EXISTING		PROPOSED (AS SHOWN BELOW)
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	EXISTING		PROPOSED (AS SHOWN BELOW)
	EXISTING		PROPOSED (AS SHOWN BELOW)
	EXISTING		PROPOSED (AS SHOWN BELOW)
	EXISTING		PROPOSED (AS SHOWN BELOW)

NO.	EQUIPMENT LIST	ARM	BASE	B.B.	NO.	EQUIPMENT LIST	ARM	BASE	B.B.
1.	35' SIGNAL FOR 150 WATT LUMINAIRE	4'	OD	DD	11.	HYDRO M.H. #4013-1			
2.	DAVIT	12'	A	AD		TIE LINE EAST			
4.	10' SIGNAL		A	A					
5.	15' SIGNAL		A	A					
6.	CANTILEVER	12'	OD	DC					
7.	35' SIGNAL FOR 240 WATT LUMINAIRE	8'	OD	DD					
8.	CANTILEVER	16'	OD	DC					
9.	332 CABINET/2070 CONTROLLER								
10.	HYDRO WOOD SERVICE:								

TRAFFIC SIGNALS UNDERGROUND LEGEND

	EXISTING		PROPOSED (AS SHOWN BELOW)
	EXISTING		PROPOSED (AS SHOWN BELOW)
	EXISTING		PROPOSED (AS SHOWN BELOW)
	EXISTING		PROPOSED (AS SHOWN BELOW)
	EXISTING		PROPOSED (AS SHOWN BELOW)
	EXISTING		PROPOSED (AS SHOWN BELOW)
	EXISTING		PROPOSED (AS SHOWN BELOW)
	EXISTING		PROPOSED (AS SHOWN BELOW)
	EXISTING		PROPOSED (AS SHOWN BELOW)
	EXISTING		PROPOSED (AS SHOWN BELOW)
	EXISTING		PROPOSED (AS SHOWN BELOW)
	EXISTING		PROPOSED (AS SHOWN BELOW)
	EXISTING		PROPOSED (AS SHOWN BELOW)
	EXISTING		PROPOSED (AS SHOWN BELOW)
	EXISTING		PROPOSED (AS SHOWN BELOW)
	EXISTING		PROPOSED (AS SHOWN BELOW)
	EXISTING		PROPOSED (AS SHOWN BELOW)
	EXISTING		PROPOSED (AS SHOWN BELOW)

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
	WATERMAIN			ROADWAY			TELEPHONE	
	HYDRANT			SIDEWALK			COMMUNICATION	
	VALVE			CURBS & CURB RAMP			WOOD POLE	
	SEWER			WARNING TILE			STREET LIGHT	
	MANHOLE			SLOPE			BANNER POLE	
	CATCH BASIN			CULVERT			RAILWAY POLE	
	CURB INLET			BUILDING			GUY-WIRE	
	HYDRO			TREE			FENCE	
	GAS						GUARDRAIL	

UNDERGROUND STRUCTURES

UNDERGROUND STRUCTURES ID	DATE (YYYYMMDD)

CONSTRUCTION REVISIONS

NO.	REVISION	DATE (YYYYMMDD)	BY
A	ISSUED FOR INTERNAL REVIEW	2020/03/25	R.S.

ACCOUNTS:

WT PENDING

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THE CITY OF WINNIPEG
PUBLIC WORKS DEPARTMENT
TRANSPORTATION DIVISION

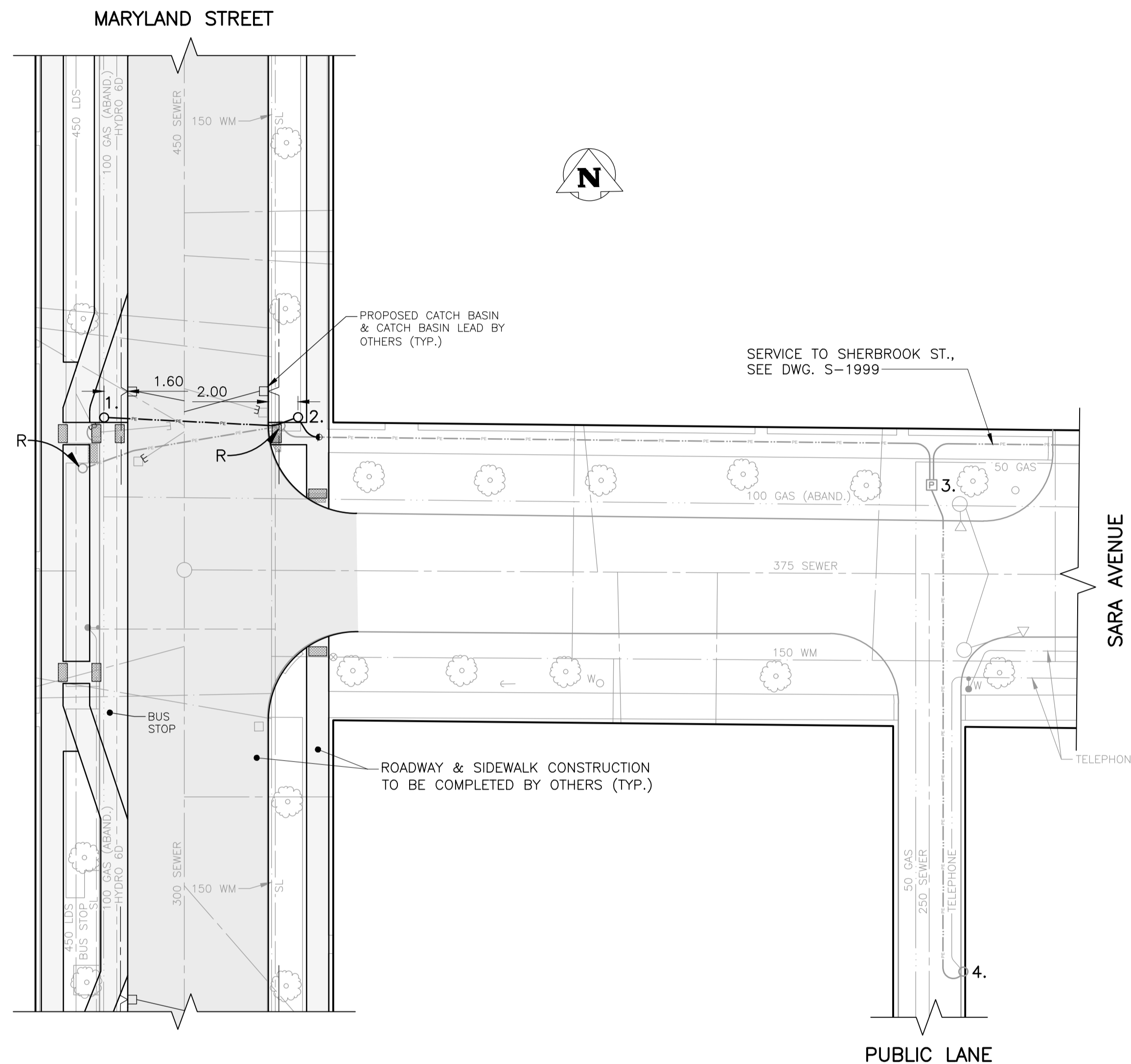
TRAFFIC SIGNALS
BROADWAY & MARYLAND ST.

UNITS: ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED
DRAWING NUMBER: S-1696

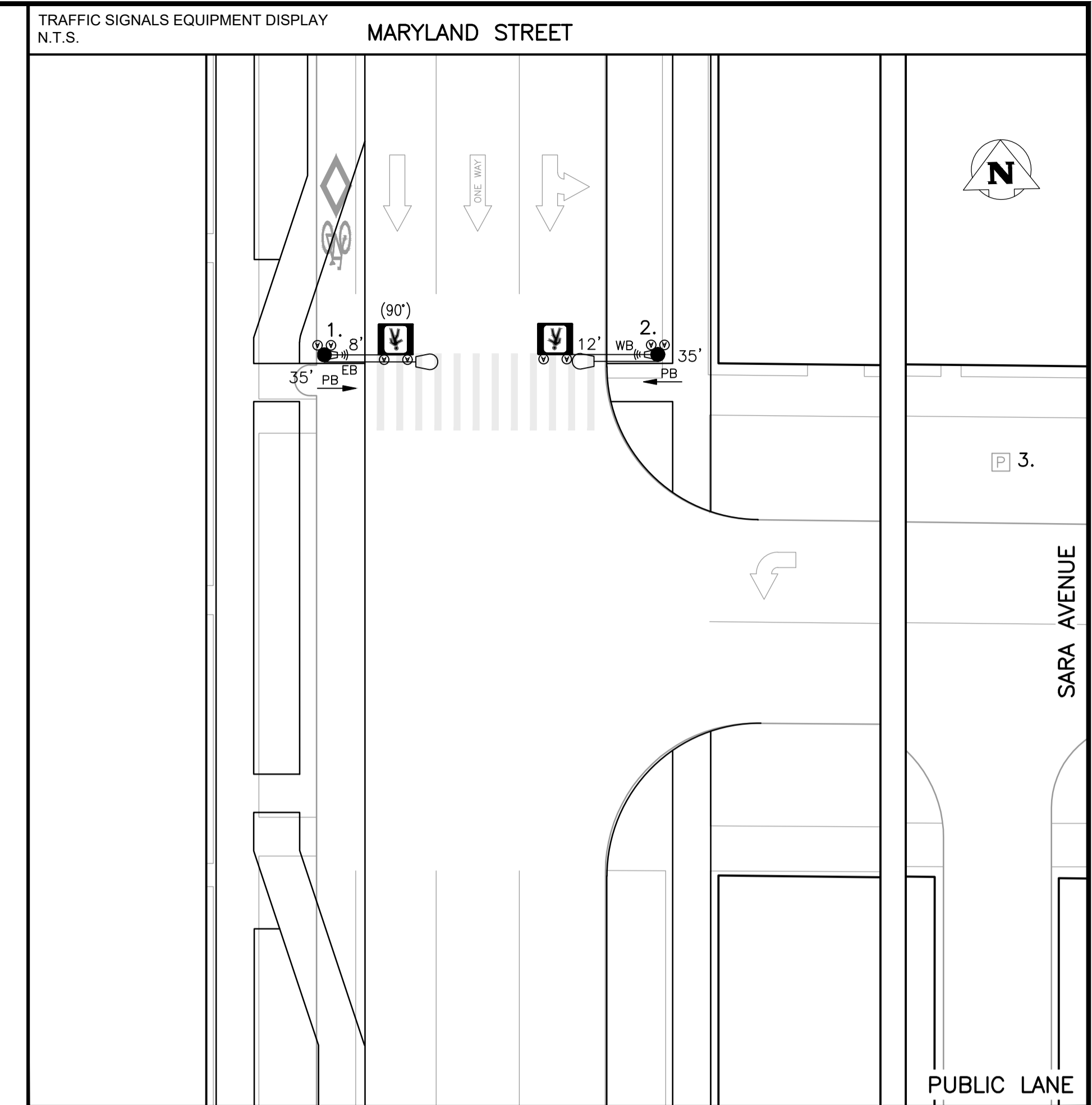
CONSTRUCTION NOTES:

- PROJECT SCOPE**
1. INSTALL CONDUIT AND BASE AS SHOWN.
 2. TOTAL LENGTH OF SERVICE CABLE: 50m.
 3. INSTALL EQUIPMENT AS SHOWN.
 4. CROSSING TIME: 17 SECONDS.

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



PLAN VIEW: UNDERGROUND CONSTRUCTION
1:250



EQUIPMENT DISPLAY LEGEND

EXISTING		PROPOSED (AS SHOWN BELOW)	
	PEDESTRIAN HEAD		VEHICLE DETECTION AREA
	PEDESTRIAN HEAD WITH PCS		PUSH BUTTON & DIRECTION
	PEDESTRIAN CORRIDOR BOX		APS SINGLE DIRECTION
	TRAFFIC SIGNAL HEAD		TRAFFIC SIGNAL POLE
	TRAFFIC SIGNAL POLE		RED FLASHER
	LOW ARM (SHOWN FROM CENTRE)		AMBER FLASHER (CIRCUIT 11' OR 17')
	HIGH ARM (SHOWN FROM SIDE)		LUMINAIRE
	CAMERA		APS DUAL DIRECTION (2 SEPARATE SPEAKERS)

NO.	EQUIPMENT LIST	ARM	BASE	B.B.	NO.	EQUIPMENT LIST	ARM	BASE	B.B.
1.	35' SIGNAL FOR 150 WATT LUMINAIRE	8'	OD	DD					
2.	35' SIGNAL FOR 150 WATT LUMINAIRE	12'	OD	DD					
3.	DISCONNECT PEDESTAL 1-BREAKER BOX FOR CORRIDOR 1-BREAKER BOX FOR S-1999								
4.	HYDRO WOOD SERVICE:								

TRAFFIC SIGNALS UNDERGROUND LEGEND

EXISTING	PROPOSED (AS SHOWN BELOW)
	POLE BASE
	CONTROLLER BASE
	PEDESTAL BASE
	TERMINAL BASE
	SERVICE BOX (PIT)
	24\"/>
	30\"/>
	36\"/>
	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 "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	

1:250 - Equipment Display - Sara E-2020-0001 - Sara E-2020-0001 - Sara E-2020-0001

EXISTING	LEGEND	PROPOSED	EXISTING	LEGEND	PROPOSED	EXISTING	LEGEND	PROPOSED
	WATERMAIN			ROADWAY			TELEPHONE	
	VALVE			SIDEWALK			WOOD POLE	
	SEWER			CURB & CURB RAMP			STREET LIGHT	
	MANHOLE			WARNING TILE			BANNER POLE	
	CATCH BASIN			SLOPE			RAILWAY POLE	
	CURB INLET			CULVERT			GUY-WIRE	
	HYDRO			BUILDING			FENCE	
	GAS			TREE			GUARDRAIL	

UNDERGROUND STRUCTURES		CONSTRUCTION REVISIONS	
UNDERGROUND STRUCTURES ID	DATE (YYYYMMDD)	NO.	REVISION

DESIGNED BY	DATE	BY	DATE
R.S.			
R.S.			
C.H.			

ACCOUNTS:
WT PENDING

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THE CITY OF WINNIPEG
PUBLIC WORKS DEPARTMENT
TRANSPORTATION DIVISION

PEDESTRIAN CORRIDOR
MARYLAND ST. & SARA AVE.

UNITS: ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED
DRAWING NUMBER: S-2000

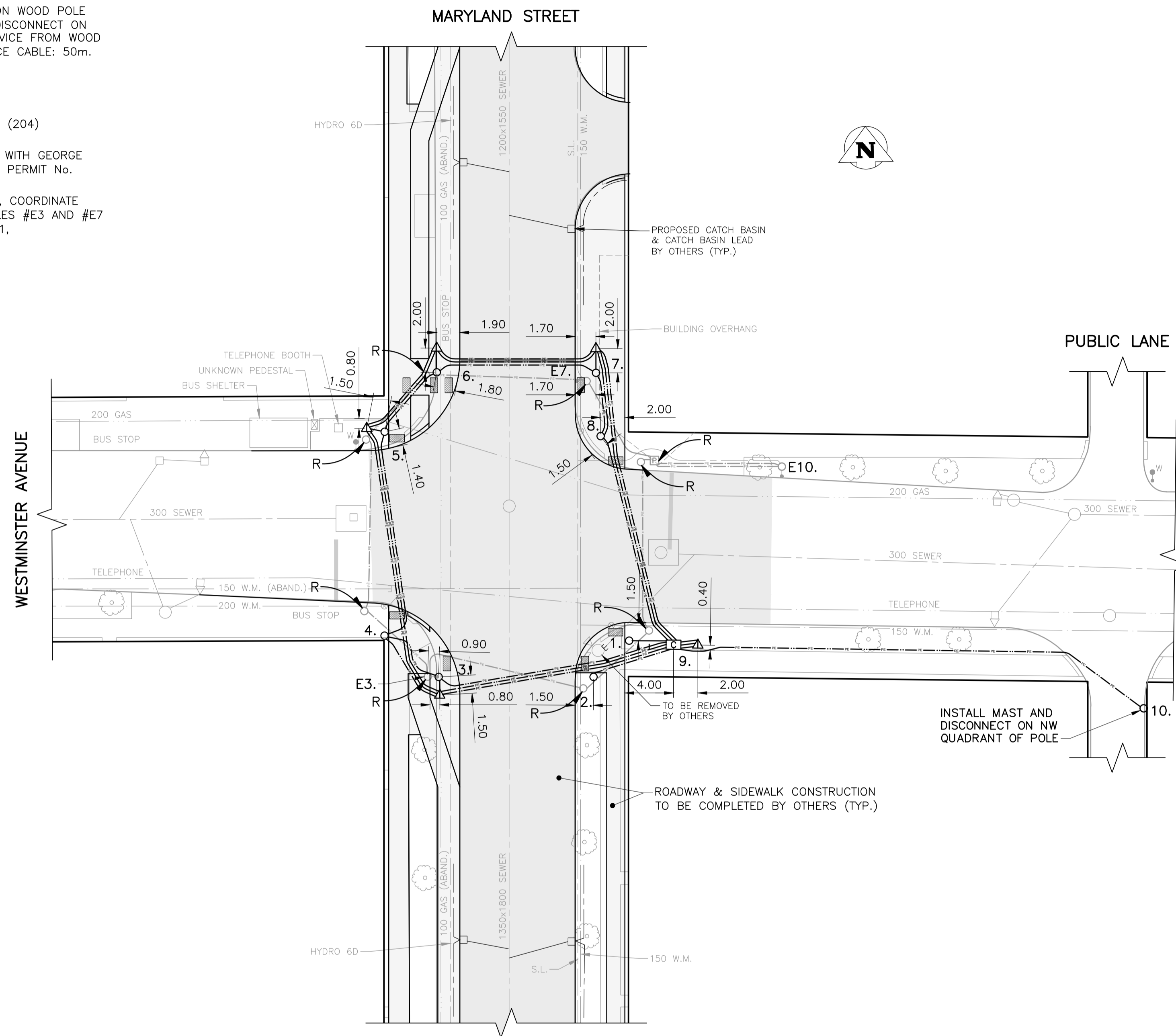
CONSTRUCTION NOTES:

PROJECT SCOPE

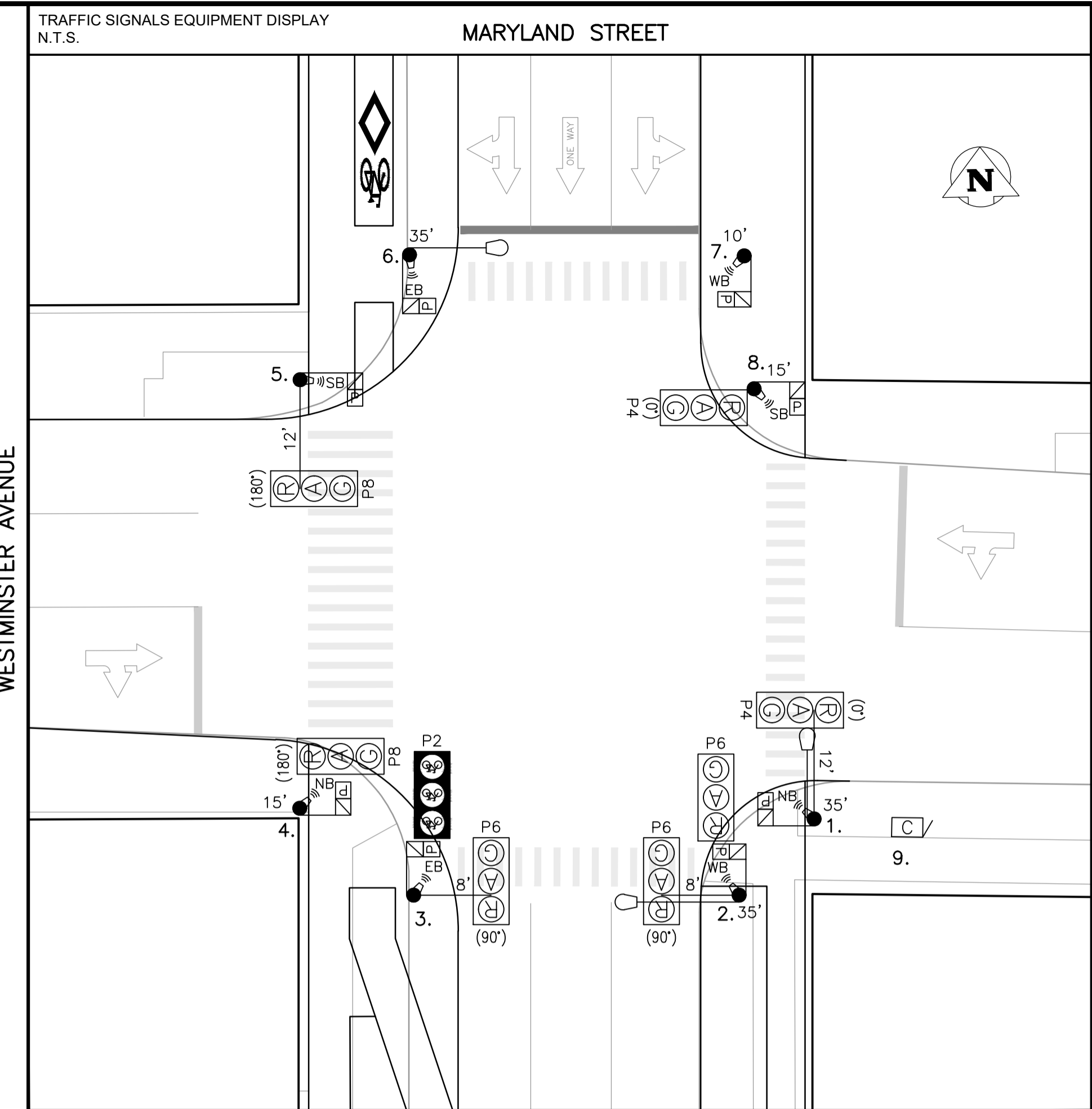
1. INSTALL CONDUIT, BASES AND PITS AS SHOWN.
2. INSTALL SERVICE AND GROUND ROD ON WOOD POLE #10 AS SHOWN. INSTALL MAST AND DISCONNECT ON NW QUADRANT. REMOVE EXISTING SERVICE FROM WOOD POLE #E10. TOTAL LENGTH OF SERVICE CABLE: 50m.
3. INSTALL EQUIPMENT AS SHOWN.

PROJECT COORDINATION

1. COORDINATE WORK WITH (CA'S NAME), (204) XXX-XXXX.
2. COORDINATE HYDRO SERVICE REBUILD WITH GEORGE WEDDALL, (204) 360-7451. RE: JUTA PERMIT No. B23034
3. TWO WEEKS PRIOR TO CONSTRUCTION, COORDINATE REMOVAL OF EXISTING JOINT USE POLES #E3 AND #E7 WITH DARREN TABAK, (204) 360-7521, dtabak@hydro.mb.ca.



PLAN VIEW: UNDERGROUND CONSTRUCTION
1:250



EQUIPMENT DISPLAY LEGEND

	EXISTING		PROPOSED (AS SHOWN BELOW)		TRAFFIC SIGNAL HEAD		LOW ARM (SHOWN FROM CENTRE)		HIGH ARM (SHOWN FROM SIDE)
					TRAFFIC SIGNAL POLE		RED FLASHER		LUMINAIRE
					PUSH BUTTON & DIRECTION		APS DUAL DIRECTION (2 SEPARATE SPEAKERS)		AMBER FLASHER (CIRCUIT 'X' OR 'Y')
					APS SINGLE DIRECTION		CAMERA		

NO.	EQUIPMENT LIST	ARM	BASE	B.B.	NO.	EQUIPMENT LIST	ARM	BASE	B.B.
1.	35' SIGNAL FOR 150 WATT LUMINAIRE	12'	OD	DD	E3.	30' S.L. (TO BE REMOVED)			
2.	35' SIGNAL FOR 90 WATT LUMINAIRE	8'	OD	DD	E7.	30' S.L. (TO BE REMOVED)			
3.	CANTILEVER		8'	OD DC	E10.	HYDRO WOOD			
4.	15' SIGNAL			A A					
5.	CANTILEVER		12'	OD DC					
6.	35' SIGNAL FOR 150 WATT LUMINAIRE			OD DD					
7.	10' SIGNAL			A A					
8.	15' SIGNAL			A A					
9.	332 CABINET/2070 CONTROLLER								

TRAFFIC SIGNALS UNDERGROUND LEGEND

	1 1/2" PE CONDUIT		POLE BASE		CONTROLLER BASE		PEDESTAL BASE		TERMINAL BASE
	2" PE CONDUIT		SERVICE BOX (PIT)		24" PRECAST PIT		30" PRECAST PIT		36" PRECAST PIT
	AERIAL / BURIED CABLE		BREAK-IN		REMOVAL				
	CONDUIT STUB		SAW-CUT LOOPS						
	BREAK-IN		PREFORMED LOOPS						

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 "E" - 12 3/4", 1 1/4" DIA. BOLTS, 28" DIA.		TYPE "F" - 9 9/16" SCREW TYPE
	TYPE "G" - 8 1/8", 1 1/4" DIA. BOLTS, 89mm PROJ.		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 "M" - 8 1/8", PRECAST, 5/8" DIA. BOLTS		

EXISTING	LEGEND	PROPOSED	EXISTING	LEGEND	PROPOSED	EXISTING	LEGEND	PROPOSED
	WATERMAIN			ROADWAY			TELEPHONE	
	HYDRANT			SIDEWALK			COMMUNICATION	
	SEWER			CURB & CURB RAMP			STREET LIGHT	
	HYDRO			WARNING TILE			BANNER POLE	
	GAS			SLOPE			RAILWAY POLE	
	HYDRO			CULVERT			GUY-WIRE	
	HYDRO			BUILDING			FENCE	
	GAS			TREE			GUARDRAIL	

UNDERGROUND STRUCTURES

UNDERGROUND STRUCTURES ID	DATE (YYYYMMDD)

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 (YYYYMMDD)	BY
A	ISSUED FOR INTERNAL REVIEW	2020/03/25	R.S.

ACCOUNTS:

WT PENDING

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THE CITY OF WINNIPEG
PUBLIC WORKS DEPARTMENT
TRANSPORTATION DIVISION

TRAFFIC SIGNALS
MARYLAND ST. & WESTMINSTER AVE.

UNITS: ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED
DRAWING NUMBER: S-1705

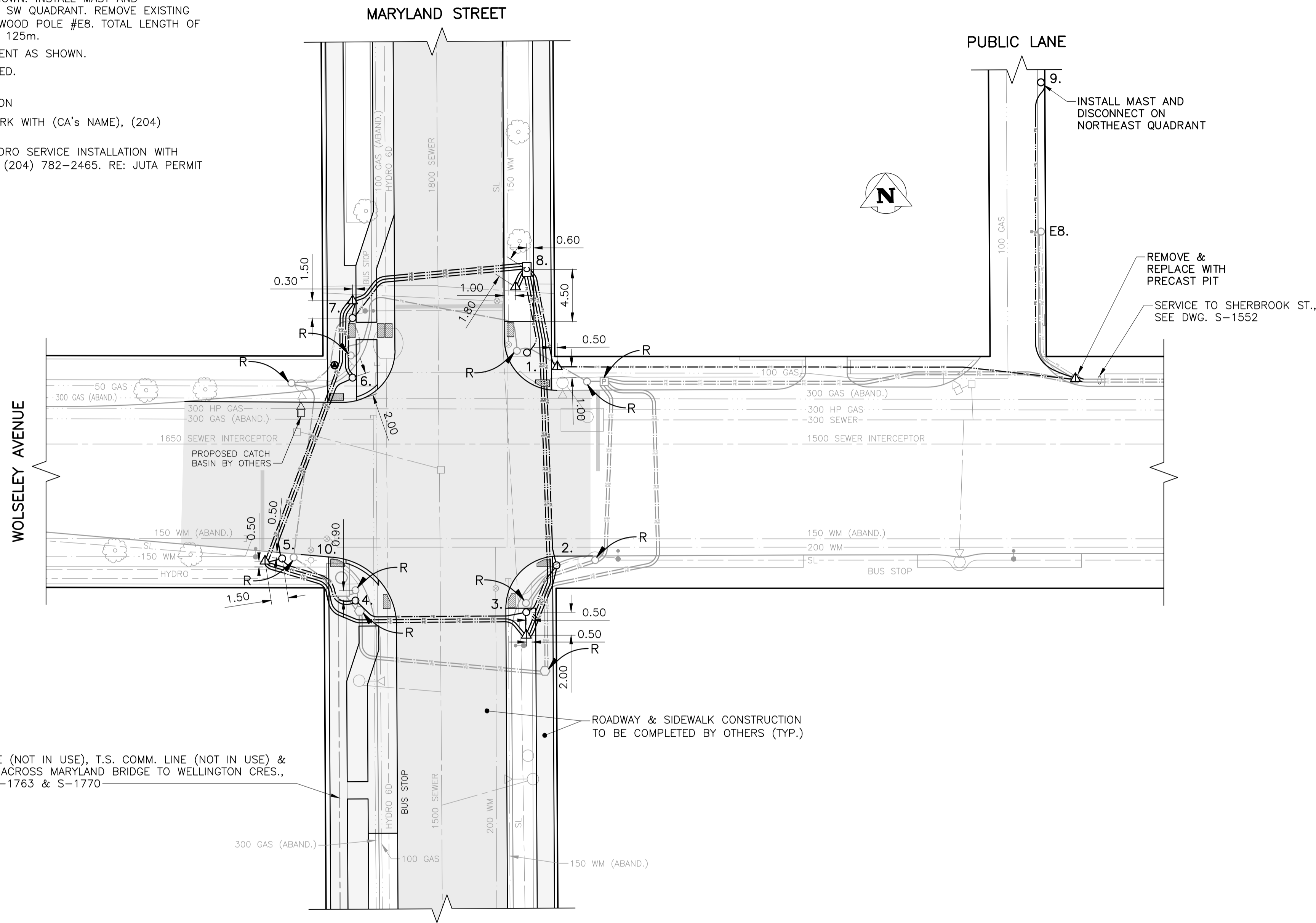
CONSTRUCTION NOTES:

PROJECT SCOPE

1. INSTALL CONDUIT, BASES AND PITS AS SHOWN.
2. INSTALL SERVICE AND GROUND ROD ON WOOD POLE #8 AS SHOWN. INSTALL MAST AND DISCONNECT ON SW QUADRANT. REMOVE EXISTING SERVICE FROM WOOD POLE #E8. TOTAL LENGTH OF SERVICE CABLE: 125m.
3. INSTALL EQUIPMENT AS SHOWN.
4. TIMINGS REQUIRED.

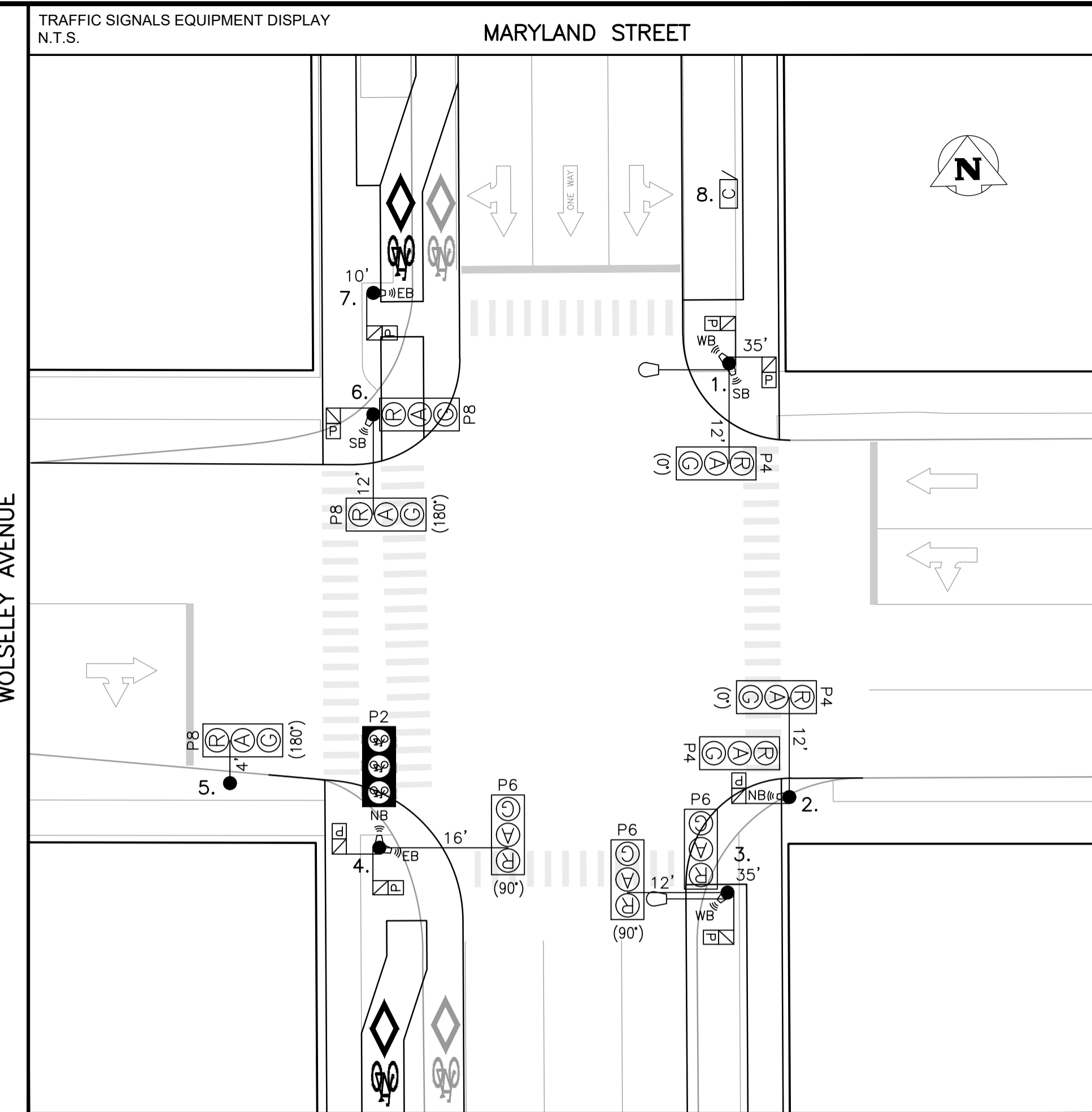
PROJECT COORDINATION

1. COORDINATE WORK WITH (CA'S NAME), (204) XXX-XXXX.
2. COORDINATE HYDRO SERVICE INSTALLATION WITH PHILLIP BRUCE, (204) 782-2465. RE: JUTA PERMIT No. B23083

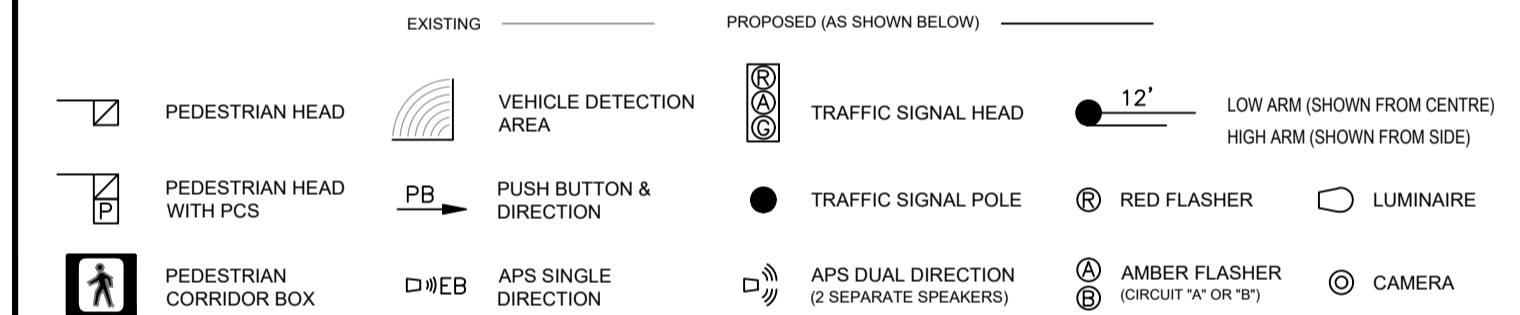


PLAN VIEW: UNDERGROUND CONSTRUCTION

1:250

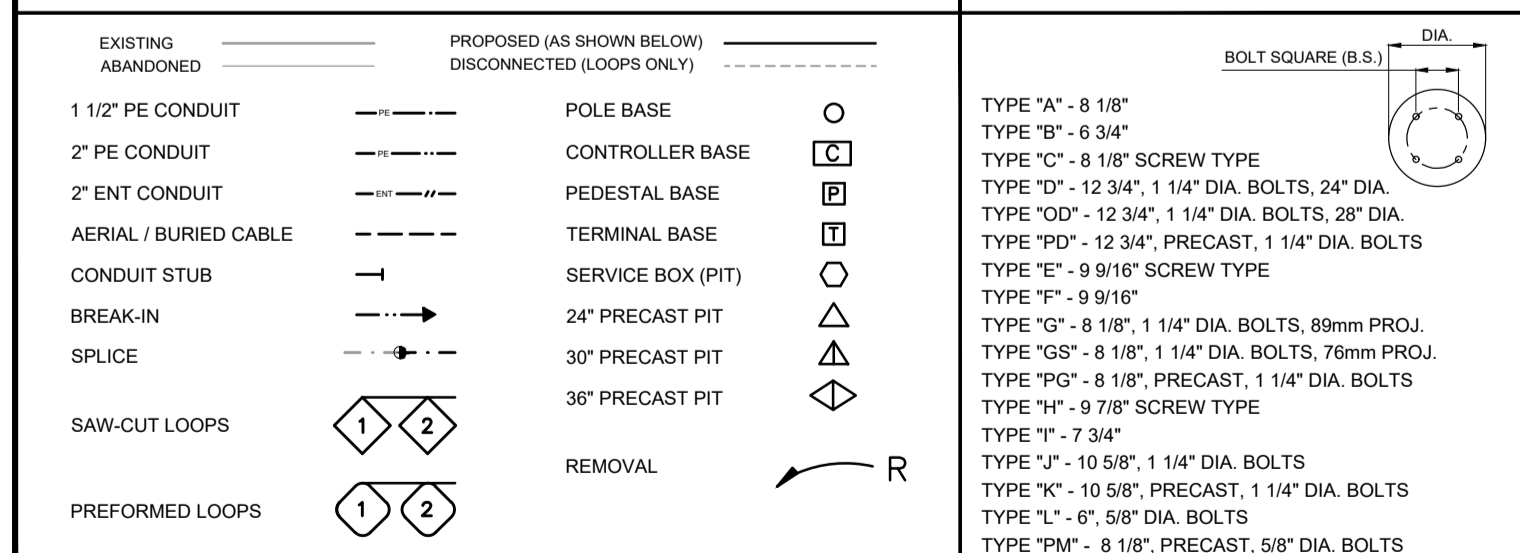


EQUIPMENT DISPLAY LEGEND

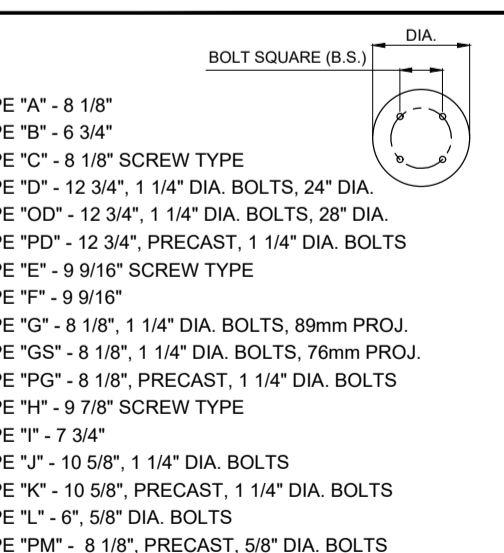


NO.	EQUIPMENT LIST	ARM	BASE	B.B.	NO.	EQUIPMENT LIST	ARM	BASE	B.B.
1.	35' SIGNAL FOR 150 WATT LUMINAIRE	12'	OD	DD	10.	HYDRO MH #WY-5			
2.	CANTILEVER	12'	OD	DC		T.S. TIE LINE SOUTH			
3.	35' SIGNAL FOR 150 WATT LUMINAIRE	12'	OD	DD		E8. HYDRO WOOD			
4.	CANTILEVER	16'	OD	DC					
5.	CANTILEVER	4'	OD	DC					
6.	CANTILEVER	12'	OD	DC					
7.	10' SIGNAL		A	A					
8.	332 CABINET/2070 CONTROLLER								
9.	HYDRO WOOD SERVICE: FOR S-1552								

TRAFFIC SIGNALS UNDERGROUND LEGEND



SIGNAL BASE BOLT SQUARE TYPES



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

UNDERGROUND STRUCTURES

UNDERGROUND STRUCTURES ID _____ DATE (YYYYMMDD) _____

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 (YYYYMMDD)	BY	APPROVED BY
A	ISSUED FOR INTERNAL REVIEW	2020/03/26	R.S.	
0	ISSUED FOR UGS APPROVAL	2020/02/20	R.S.	

ACCOUNTS:

WT PENDING

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ENGINEER'S SEAL:

PRELIMINARY
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THE CITY OF WINNIPEG
PUBLIC WORKS DEPARTMENT
TRANSPORTATION DIVISION

TRAFFIC SIGNALS
MARYLAND ST. & WOLSELEY AVE.

UNITS: ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED
DRAWING NUMBER: S-1706