

PEMBINA HIGHWAY

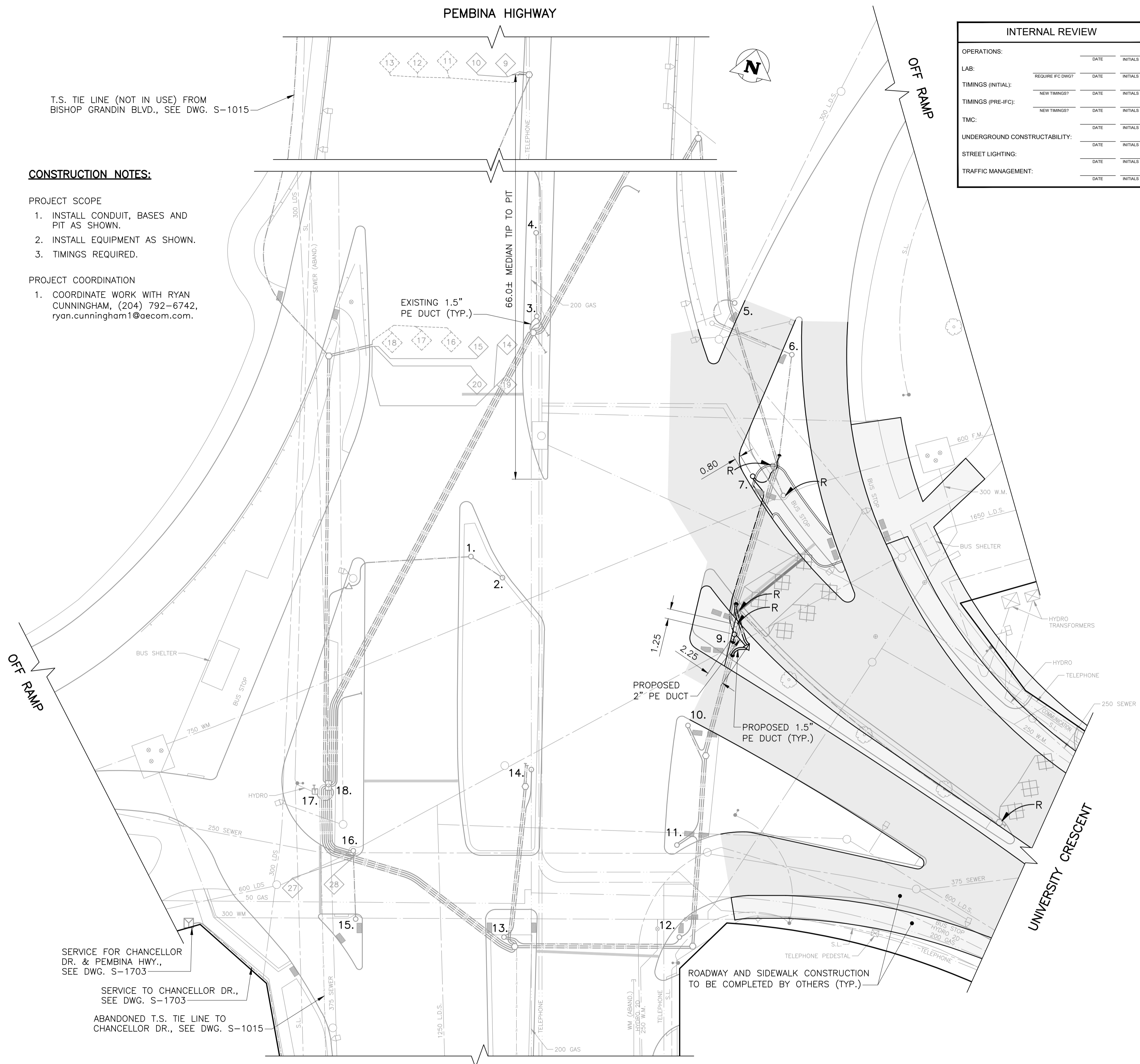
OFF RAMP

INTERNAL REVIEW		
OPERATIONS:	DATE	INITIALS
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

T.S. TIE LINE (NOT IN USE) FROM BISHOP GRANDIN BLVD., SEE DWG. S-1015

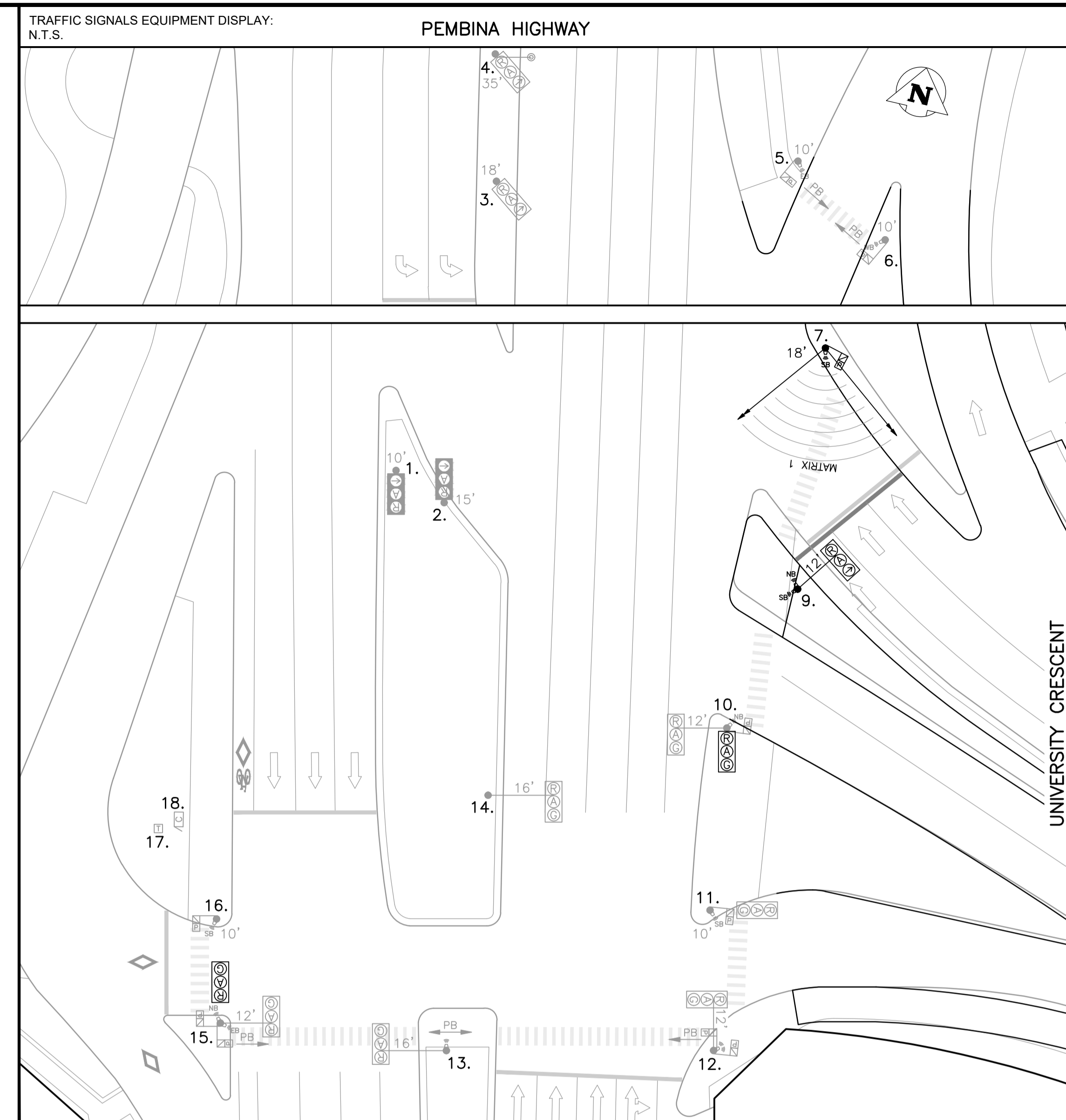
CONSTRUCTION NOTES:

- PROJECT SCOPE
1. INSTALL CONDUIT, BASES AND PIT AS SHOWN.
 2. INSTALL EQUIPMENT AS SHOWN.
 3. TIMINGS REQUIRED.
- PROJECT COORDINATION
1. COORDINATE WORK WITH RYAN CUNNINGHAM, (204) 792-6742, ryan.cunningham1@wccom.com.



PLAN VIEW: UNDERGROUND CONSTRUCTION
1:300

DETECTION CONNECTION DETAILS			
SENSOR NO.	POLE NO.	DETECTION LOCATION	NOTES
MATRIX 1	7	WB LANES/BIKE LANE	



EQUIPMENT DISPLAY LEGEND				EQUIPMENT LIST				EQUIPMENT LIST			
EXISTING	PROPOSED (AS SHOWN BELOW)	NO.	EQUIPMENT LIST	ARM	BASE	B.B.	NO.	EQUIPMENT LIST	ARM	BASE	B.B.
PEDESTRIAN HEAD WITH PCS	PEDESTRIAN CORRIDOR BOX (CIRCUIT 12594)	1.	10' SIGNAL		A	A	12.	DAVIT	12'	A	A
RRFB (PHASE 'W' OR 'E')	VEHICLE DETECTION AREA	2.	15' SIGNAL		A	A	13.	DAVIT	16'	A	AD
PUSH BUTTON & DIRECTION (APB + AUDIBLE PB)	APB SINGLE DIRECTION	3.	18' SIGNAL		A	A	14.	DAVIT	16'	A	AD
APB DUAL DIRECTION (2 SEPARATE SPEAKERS)	APB DUAL DIRECTION	4.	35' SIGNAL FOR CAMERA		A	AD	15.	DAVIT	12'	A	A
TRAFFIC SIGNAL HEAD	TRAFFIC SIGNAL HEAD	5.	10' SIGNAL		A	A	16.	10' SIGNAL		A	A
TRAFFIC SIGNAL POLE	TRAFFIC SIGNAL POLE	6.	10' SIGNAL		A	A	17.	DISCONNECT PEDESTAL SERVICE:			
WOOD POST	WOOD POST	7.	18' SIGNAL		G	G	18.	332 CABINET/170 CONTROLLER UPS SIDEMOUNT S6 CABINET			
ELECTRONIC DISPLAY	ELECTRONIC DISPLAY	9.	DAVIT	12'	G	GD	10.	DAVIT	12'	A	AD
RED FLASHER	RED FLASHER	10.	DAVIT		A	A	11.	10' SIGNAL			
AMBER FLASHER	AMBER FLASHER	11.	10' SIGNAL		A	A					

TRAFFIC SIGNALS UNDERGROUND LEGEND				SIGNAL BASE BOLT SQUARE TYPES			
EXISTING	PROPOSED (AS SHOWN BELOW)	NO.	EQUIPMENT LIST	ARM	BASE	B.B.	BOLT SQUARE (B.S.)
1 1/2" PE CONDUIT	POLE BASE						TYPE "A" - 8 1/8"
2" PE CONDUIT	WOOD POST						TYPE "B" - 6 3/4"
4" PVC CONDUIT	CONTROLLER BASE						TYPE "C" - 8 1/8" SCREW TYPE
AERIAL / BURIED CABLE	PEDESTAL BASE						TYPE "D" - 12 3/4", 1 1/4" DIA. BOLTS, 24" DIA.
CONDUIT STUB	TERMINAL BASE						TYPE "OD" - 12 3/4", 1 1/4" DIA. BOLTS, 28" DIA.
BREAK-IN	SERVICE BOX (PIT)						TYPE "POD" - 12 3/4", PRECAST, 1 1/4" DIA. BOLTS, 28" DIA.
SPICE	24" PRECAST PIT						TYPE "E" - 9 9/16" SCREW TYPE
SAW-CUT LOOPS	30" PRECAST PIT						TYPE "F" - 9 9/16"
PERFORMED LOOPS	36" PRECAST PIT						TYPE "G" - 8 1/8", 1 1/4" DIA. BOLTS, 89mm PROJ.
	REMOVAL						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

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

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

CONSTRUCTION REVISIONS			
NO.	REVISION	DATE (YYYY/MM/DD)	BY
A	ISSUED FOR INTERNAL REVIEW		

ACCOUNTS:	
DESIGNED BY	DATE
J.S.	PENDING
DRAWN BY	
J.S.	
CHECKED BY	
C.H./L.G.	
APPROVED BY	

PRELIMINARY
NOT FOR CONSTRUCTION

THE CITY OF WINNIPEG
PUBLIC WORKS DEPARTMENT
TRANSPORTATION DIVISION

TRAFFIC SIGNALS
PEMBINA HWY. & UNIVERSITY CRES.

UNITS: ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED
DRAWING NUMBER: S-1508