

CN MAIN LINE-

	POWER PEDESTAL 'A' MOUNTING PEDESTAL LOCATION OUTSIDE	VOLTA MAIN REMAR			IN B	US (S	120/240V-1PH-3W 200A C/W GROUNDING AS PER C.E.C.	
ŀ	DESCRIPTION SOUTH CANOPY LIGHTING (#10 WIRE)	BKR 15	1 —	1 1) 31	BKR 15	DESCRIPTION POST LIGHTS	
ŀ	SOUTH CANOPY LIGHTING (#10 WIRE)	15	2 -		—32	15	POST LIGHTS	
ŀ	SOUTH CANOPY LIGHTING (#10 WIRE)	15	3 -		—33 —33		POST LIGHTS	
ŀ	SOUTH CANOPY LIGHTING (#10 WIRE)	15	4 —		—33 — 34	15	SIGN BAND	
ŀ	NORTH CANOPY LIGHTING	15	5 -		 35	15	T.V.'s	
H	NORTH CANOPY LIGHTING	15	6 —		—35 — 36	-	SPACE	
ŀ	BB HEAT	20	7 -		—30 —37		SPACE	
ŀ	DD TEAT	120	8 —		—37 — 38	_	SPACE	
ŀ	BB HEAT	20	9 -		—39		SPACE	
ŀ	DD FICAT	120	10—		—39 —40	_	SPACE	
ŀ	SHELTER LIGHTING	15	11 -		- 4 0		SPACE	
ŀ	SHELTER LIGHTING	15	12-		-4 2		SPACE	
ŀ	SHELTER LIGHTING	15	13-		— 4 2 — 4 3		SPACE	
ŀ	SHELTER LIGHTING	15	14-		—43 —44	_	SPACE	
ŀ	PILLAR SIGNAGE (FUTURE)	15	15—		- 44		SPACE	
ŀ	PILLAR SIGNAGE (500W)	15	16—		—45 — 46		SPACE	
ŀ	STATION IDENTIFICATION SIGNAGE	15	17—				SPACE	
H		+			—47 —48			
ŀ	STATION IDENTIFICATION SIGNAGE	15	18-	\prod			SPACE	
ŀ	ILLUMINATED SIGNAGE	15	19—	П	—49 E0	-	SPACE	
ŀ	ILLUMINATED SIGNAGE	15	20-	\prod	—50		SPACE	
H	ILLUMINATED SIGNAGE	15	21—	П	- 51		SPACE	
l	ILLUMINATED SIGNAGE	15	22	$\ \ $	52		SPACE	
ŀ	EBDD	15	23		53	-	SPACE	
ŀ	EBDD	15	24		54		SPACE	
ŀ	INFO KIOSK	15	25		55		SPACE	
l	INFO KIOSK	15	26		56		SPARE	
L	POWER DOOR ASSIST	15	27		57		SPARE	
L	POWER DOOR ASSIST	15	28		58		SPARE	
L	BUS DETECTION AND WARNING SYSTEM	15	29 30		59	15 15	SPARE PANEL RECEPTACLE	

POWER PEDESTAL 'A'

NOTES: 1. POWER PEDESTAL TO BE W.P., LOCKABLE, CUTLER HAMMER OR APPROVED EQUAL 2. SIGN AND SHELTER LIGHTING CIRCUITS TO BE PHOTOCELL CONTROLLED.

3. COORDINATE METERING WITH UTILITY * PROVIDE H/O/AUTO SWITCH INSIDE CABINET. CIRCUITS INDICATED TO BE PHOTOCELL CONTROLLED (IN AUTO POSITION).

BUS DETECTION AND WARNING SYSTEM

SCALE: 1:150

- Provide a complete and operational bus detection and warning system to the complete satisfaction of the Contract Administrator. Electrical provisions include, but are not
- necessarily limited to the following: 1. Provision of the supply and install of directional probe system to detect inbound vehicles only. Probes to be located in the roadbed 200m from the entrance to the station. All wiring to be in minimum 1.5" conduit. Provide 18"x24" splice pit at curb to CoW standards, for connection to probe. Wiring to be 14/4 shielded buried cable. One probe will be required west of the station (in east-bound lane) and one will be required east of the station (in west-bound lane). Coordinate conduit routing with
- Contract Administrator prior to road work or rough—in. 2. Each probe is to be connected to a processor c/w power supply in heated electrical enclosure. Upon detection of vehicle, processor is to signal a timed relay which will activate the
- following after a programmable delay a) signal devices at east end of station are to operate upon activation of west-bound (inbound) vehicles only. Devices at west end of station to operate similarly.
- b) audible chime at north and south pedestrian crossings. c) illuminate flashing LED lights mounted on poles (both sides of pedestrian crossing). Lights are to continue flashing for a programmable duration. Initial setting to be 30 seconds from activation. LED signals to be Edwards 103 series, NEMA 4X rated weather-proof and vandal-resistant.
- d) chime is to sound every time a vehicle passes the detector and lights to flash for full duration after each vehicle. 3. Manufacturers: Probes to be Sure Action Incorporated P8000 c/w 212 Processor or approved equal.
- 4. Equipment is to be supplied by local manufacturer's rep, such as National Industrial Communications Inc. Final connections to be performed by manufacturer's representative.
- 5. Provide complete commissioning and training of system to Contract Administrator's satisfaction.

SPECIFIC ELECTRICAL NOTES

- WIRE AND CONNECT 4 CIRCUITS OF 120V CANOPY LED LIGHTING AS REQUIRED. COORDINATE WITH CANOPY SUPPLIER. LIGHTING IS SUPPLIED AND INSTALLED BY
- WIRE AND CONNECT NEW HEATED SHELTER AS REQUIRED. COORDINATE POWER ACCESS WITH SUPPLIER. ELECTRICAL INCLUDES 2x 2kW ELECTRIC BASEBOARD HEATERS AND
- 3 APPROXIMATE LOCATION OF POWER PEDESTAL 'A' C/W RECEPTACLE. COORDINATE LOCATION WITH UTILITY AND LANDSCAPE ARCHITECT.
- 4 RELOCATED STREET LIGHT (BY HYDRO. N.I.C.).
- WIRE AND CONNECT NEW UNHEATED SHELTER AS REQUIRED. COORDINATE POWER ACCESS WITH SUPPLIER. ELECTRICAL INCLUDES SHELTER LIGHTING.
- 6 APPROXIMATE LOCATION OF UTILITY TRANSFORMER.
- WIRE AND CONNECT 2 CIRCUITS OF 120V CANOPY LED LIGHTING AS REQUIRED. COORDINATE WITH CANOPY SUPPLIER. LIGHTING IS SUPPLIED AND INSTALLED BY
- (8) WIRE AND CONNECT ILLUMINATED SIGN ARM AS REQUIRED.
- (9) WIRE AND CONNECT EBDD AS REQUIRED.
- WIRE AND CONNECT STATION IDENTIFICATION SIGNAGE AS
- 11 WIRE AND CONNECT INFO KIOSK AS REQUIRED.
- PROVIDE BUS WARNING FLASHING LIGHTS AND AUDIBLE PROVIDE BUS WARNING FLASHING LIGHTS AND AUDIBLE CHIME MOUNTED ON LUMINAIRE POLE @ 2150mm A.F.G. WIRE AND CONNECT TO BUS DETECTION AND WARNING
- 13 WIRE AND CONNECT POWER DOOR ASSIST AS REQUIRED.
- WIRE AND CONNECT PILLAR ILLUMINATED SIGN AS REQUIRED. PROVIDE 2 CIRCUITS OF 120V POWER.
- BUS DETECTION PROBE. LOCATE 200m FROM STATION.
 REFER TO CIVIL DRAWINGS. TIE TO BUS DETECTION AND WARNING SYSTEM.

SPECIFIC ELECTRICAL NOTES CONT'D

- 16 WIRE AND CONNECT SIGN BAND AS REQUIRED.
- WIRE AND CONNECT SHELTER LIGHTING AS REQUIRED.
- WIRE AND CONNECT T.V.'s AS REQUIRED. CONFIRM LOCATION. PROVIDE ONE 3/4" CONDUIT BACK TO I LOCATION. PROVIDE ONE 3/4" CONDUIT BACK TO PEDESTAL A FOR FUTURE COMMUNICATION WIRING.
- ONE EXISTING EMPTY 2" CONDUIT IS AVAILABLE FOR POWER CABLING CROSSING THE TRANSITWAY.

Ground fault duplex receptacle. 'WP' indicates weatherproof.

Junction box.

SYMBOL SCHEDULE

GENERAL ELECTRICAL NOTES

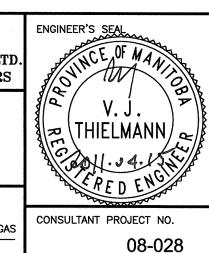
COORDINATE ROUTING OF ALL UNDERGROUND CONDUITS WITH LANDSCAPE ARCHITECT.

	LUMINAIRE SCHEDULE					
TYPE	DESCRIPTION	MANUFACTURER	LAMPS			
1	ASYMMETRIC INDIRECT LUMINAIRE MOUNTED ON 15' POLE	REBELLE	1-150W MH			
2	SYMMETRIC INDIRECT LUMINAIRE MOUNTED ON 18' POLE	REBELLE	1-150W MH			

APEGIN Certificate of Authorization Nova 3 Engineering Ltd. No. 962 Date: 2011-29-15 NOVA 3 JOB NUMBER: 31-036

LOCATION APPROVE UNDERGROUND STRUCTURE ORIGINAL SIGNED BY SUPV. U/G STRUCTURES DATE COMMITTÉE NOTE: REFER TO WWW.NOVA3.CA FOR CAUTIONARY NOTES.

ED ES	B.M ELE			·	DESIGNED BY	DZ	ZOZZZ
<u>D/Y</u> Y					DRAWN BY	DF	NOVA 3 ENGINEERING LTD. CONSULTING ENGINEERS
				-	CHECKED BY	VJT	"I'MMM
AS TON					APPROVED BY	· -	DILLON CONSULTING
ANN CONTRACTOR					HOR. SCALE	1:150	RELEASED FOR CONSTRUCTION
BE IES	0	ISSUED FOR TENDER	2011.04.20	DZ	VERTICAL		ORIGINAL SIGNED BY RANDY FINGAS
ON.	NO.	REVISIONS	DATE	BY	DATE	2011-04-15	DATE: April 20, 2011



NOTE: REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL INFORMATION.

THE CITY OF WINNIPEG TRANSIT DEPARTMENT

SOUTHWEST RAPID TRANSIT CORRIDOR - STAGE 1 STATION CONSTRUCTION, WARSAW RECONSTRUCTION & ASSOCIATED WORKS

HARKNESS STATION

ELECTRICAL LAYOUT

P-3325-27 SHEET 27 28 CONSULTANT DRAWING NUMBER C7-B2200-T

CITY DRAWING NUMBER