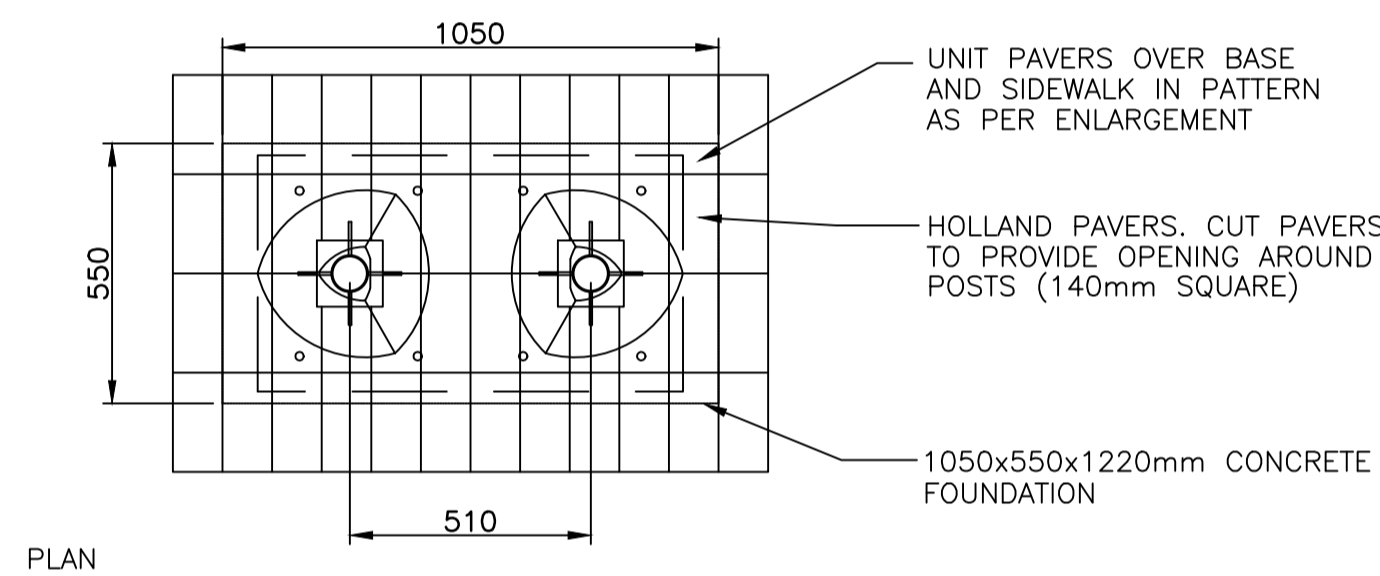
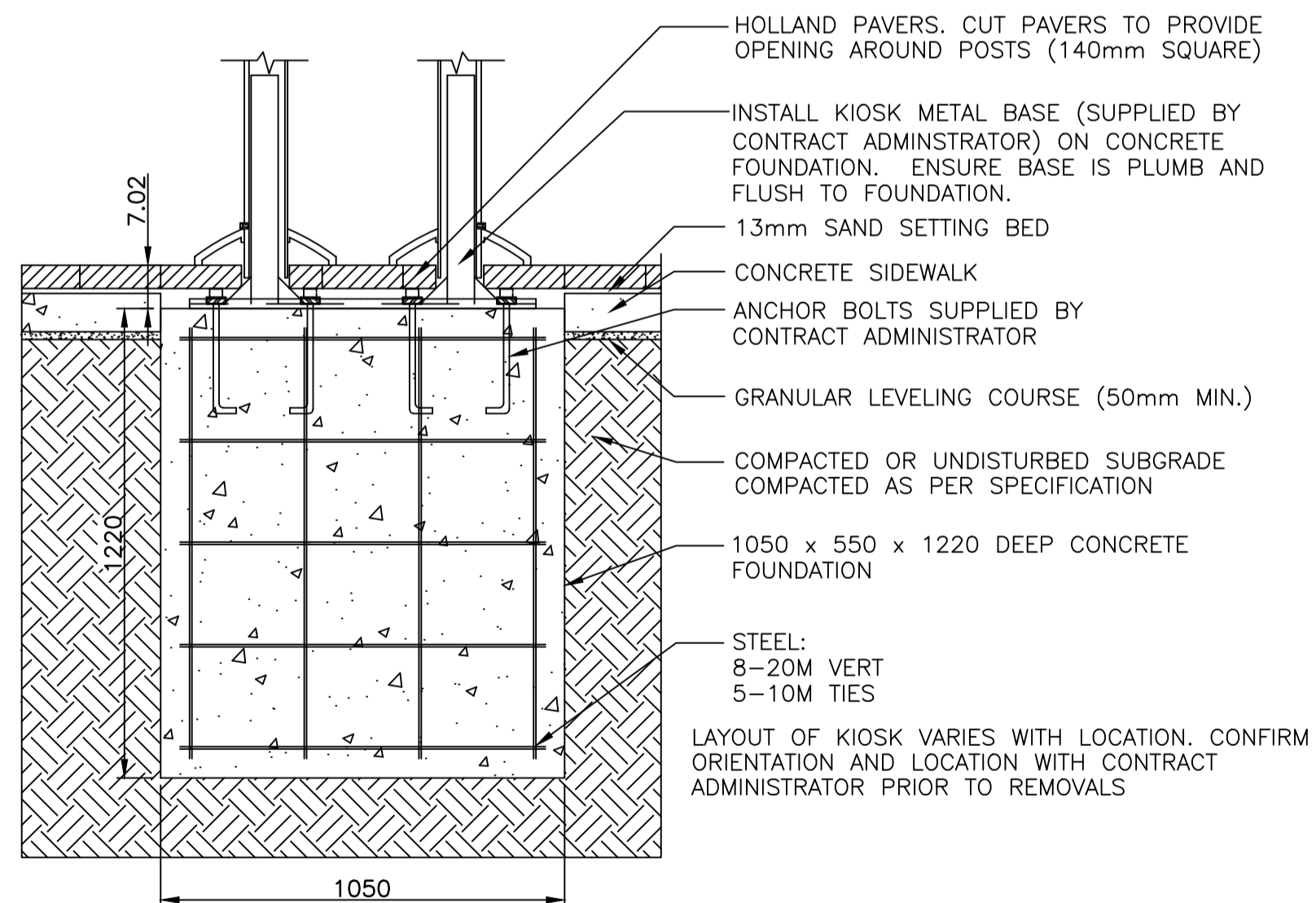


CONCRETE BROADWAY CYCLE PAVER (YELLOW)

N.T.S. (UNITS IN DECIMALIZED MILLIMETRES)



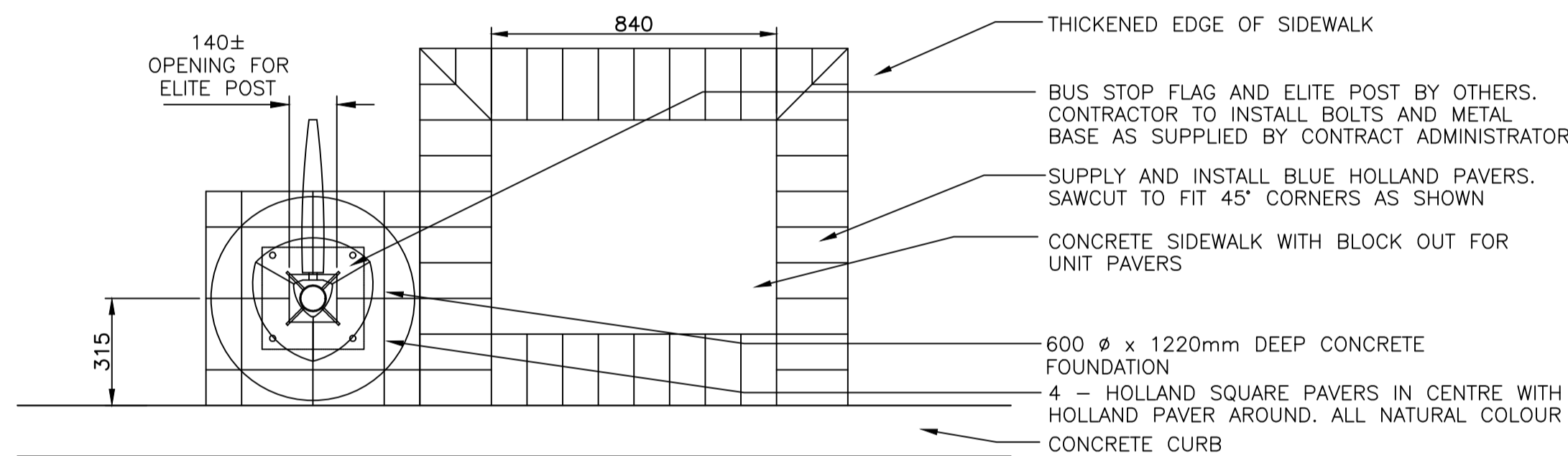
PLAN



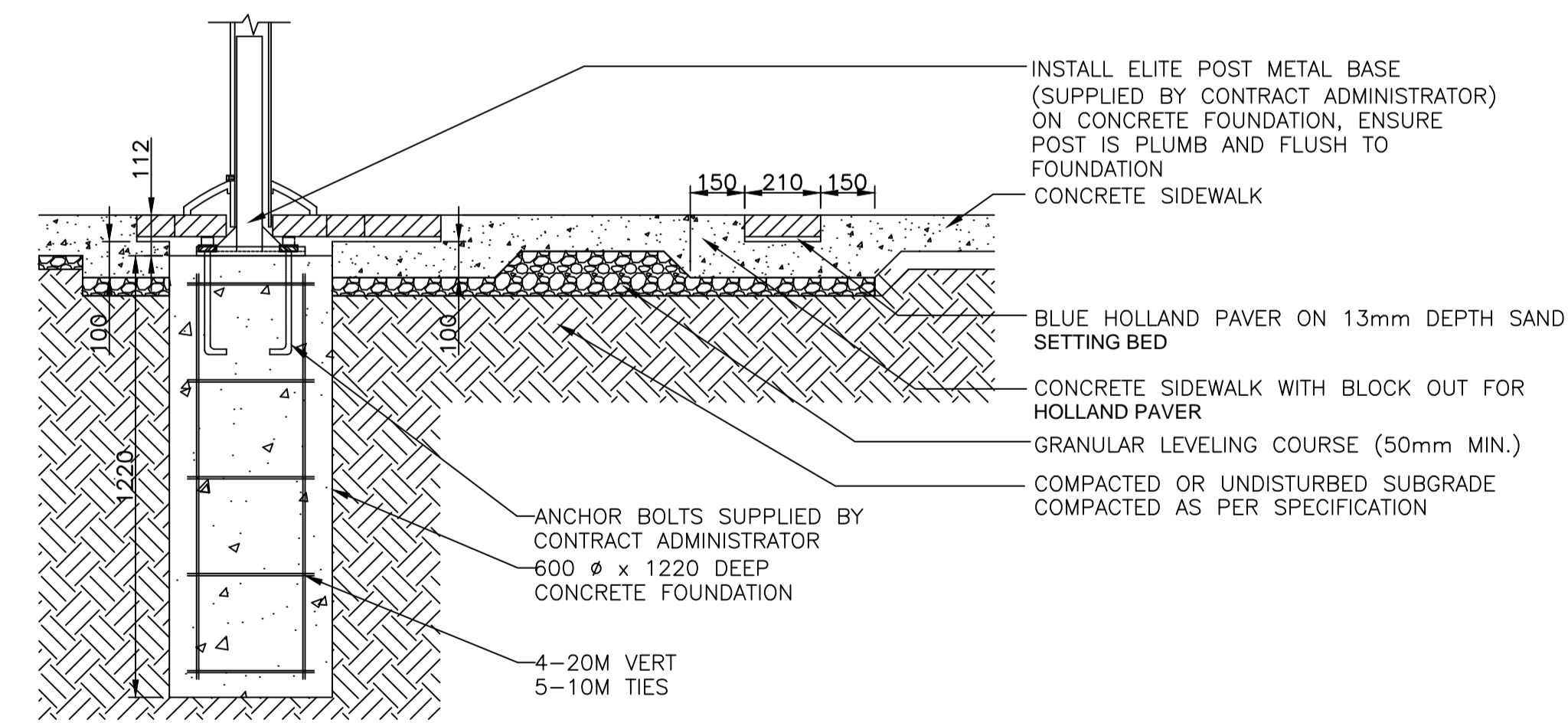
SECTION

INFORMATION KIOSK FOUNDATION

N.T.S.



PLAN



SECTION

BUS STOP FLAG FOUNDATION

N.T.S.

CONCRETE FOUNDATION CONSTRUCTION NOTES

- REINFORCING STEEL**
 - CSA G30 GR. 400W
 - VERTICAL BARS FULL LENGTH OF PILE SUPPLIED BY CONTRACT ADMINISTRATOR
 - HOT DIP GALVANIZED
- ANCHOR BOLTS**
 - CSA G40.21 GR. 300W "J BOLTS"
- TOP OF PILE SHALL BE FORMED WITH A TUBULAR FORM (SONOTUBE) AS FOLLOWS:**
 - BORED PILES - MIN. 1000 mm BELOW FINAL GRADE
 - "HYDRO-JET EXCAVATED" PILES - MIN. 1500 mm BELOW FINAL GRADE
- CONCRETE** - CONCRETE MATERIAL SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES IN ACCORDANCE WITH CSA A23.1-04:
 - CLASS OF EXPOSURE: S-1
 - COMPRESSIVE STRENGTH @ 56 DAYS - 35 MPa
 - WATER/CEMENTING MATERIALS RATIO = 0.4
 - AIR CONTENT: CATEGORY 2 PER TABLE 4 OF CSA A23.1-04 (4-7%)
 - CEMENT - TYPE HS OR HSB, HIGH SULPHATE RESISTANT

CONSTRUCTION NOTES

- CURB REPLACEMENT AS DIRECTED BY THE CONTRACT ADMINISTRATOR
- ALL STREET RADIUS CURB UNDER 15M RADIUS SHALL BE REPLACED AS MODIFIED OR AS DIRECTED BY THE CONTRACT ADMINISTRATOR
- PAVEMENT REPAIRS SHOWN ARE ONLY A REPRESENTATIVE SAMPLE OF THE TENDERED QUANTITIES
- ASPHALT TIE-INS ON APPROACHES TO BE DETERMINED IN THE FIELD BY THE CONTRACT ADMINISTRATOR.
- ALL BULLNOSES TO HAVE SLOPED FACE.
- INSTALL DETECTABLE WARNING SURFACE TILES AS DIRECTED BY THE CONTRACT ADMINISTRATOR

WARNING

IF POWER EQUIPMENT OR EXPLOSIVES ARE TO BE USED FOR EXCAVATION ON THIS PROJECT THE CONTRACTOR MUST:
 1) OBTAIN CLEARANCE FROM THE GAS UTILITY PRIOR TO EXCAVATION.
 2) TAKE PRECAUTION TO AVOID DAMAGE TO GAS UTILITY INSTALLATIONS.

SEE PROVINCIAL REGULATION 210/72 FOR DETAILS

METRIC
 WHOLE NUMBERS INDICATE MILLIMETRES
 DECIMALIZED NUMBERS INDICATE METRES

BID OPPORTUNITY NO. 384-2012

⊕	HYDRANT	◆	---	LDS/WWS	---	---	N/BOUND EAST GUTTER	---
⊙	VALVE	●	---	WATERMAIN	---	---	N/BOUND MEDIAN GUTTER	---
⊚	CURB STOP	⊙	---	GAS	---	---	N/BOUND SIDEWALK	---
⊛	CONCRETE PAVEMENT	⊙	---	TRAFFIC SIGNALS	---	---		
○	O.L.S.	●	---	ASPHALT MILL & FILL	---	---		
○	MANHOLE	●	---	CURB RENEWAL	---	---		
□	CATCH BASIN	■	231.000	ELEVATIONS	231.000	---		
△	CURB INLET	▲	---	PROPERTY LINE	---	---		
☆	HYDRO POLE	⊕	---	SURVEY BAR	---	---		
⊙	TRAFFIC SIGNAL POLE	⊙	---	GEODETIC BENCH MARK	---	---		
⊙	DETECTABLE WARNING TILE	⊙	---	RAMP CURB	---	---		
EXISTING	LEGEND - PLAN	PROPOSED	EXISTING	LEGEND - PLAN	PROPOSED	EXISTING	LEGEND - PROFILE	PROPOSED

LOCATION APPROVED
 UNDERGROUND STRUCTURES

SUPR. U/C STRUCTURES
 COMMITTEE DATE

NOTE:
 LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE. BUT NO GUARANTEE IS GIVEN 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.

B.M. ELEV.	CBM 64-031 232.184
NO.	REVISIONS
1	ISSUED FOR TENDER 2012/06/08 S.S.
0	ISSUED FOR REVIEW 2012/05/03 R.M.C.

ENGINEERING DIVISION TECHNOLOGY SERVICES BRANCH 106 - 1155 PACIFIC AVE	
DESIGNED BY S.S.	CHECKED BY D.T.
DRAWN BY R.M. / R.M.C.	APPROVED BY S.P.
HOR. SCALE: VARIES	
VERTICAL: 2012/06/08	

ENGINEER'S SEAL

ORIGINAL SIGNED BY
 S.R.S. JUNE 8, 2012

THE CITY OF WINNIPEG
 PUBLIC WORKS DEPARTMENT

PEMBINA HIGHWAY - NORTHBOUND
 FROM PLAZA DRIVE TO CHEVRIER BOULEVARD
 MILL AND FILL / ACTIVE TRANSPORTATION CORRIDOR
 AND ASSOCIATED WORKS

CITY DRAWING NUMBER
 SE-12-40-R1

SHEET 8 OF 8

MISCELLANEOUS DETAILS 2 OF 2