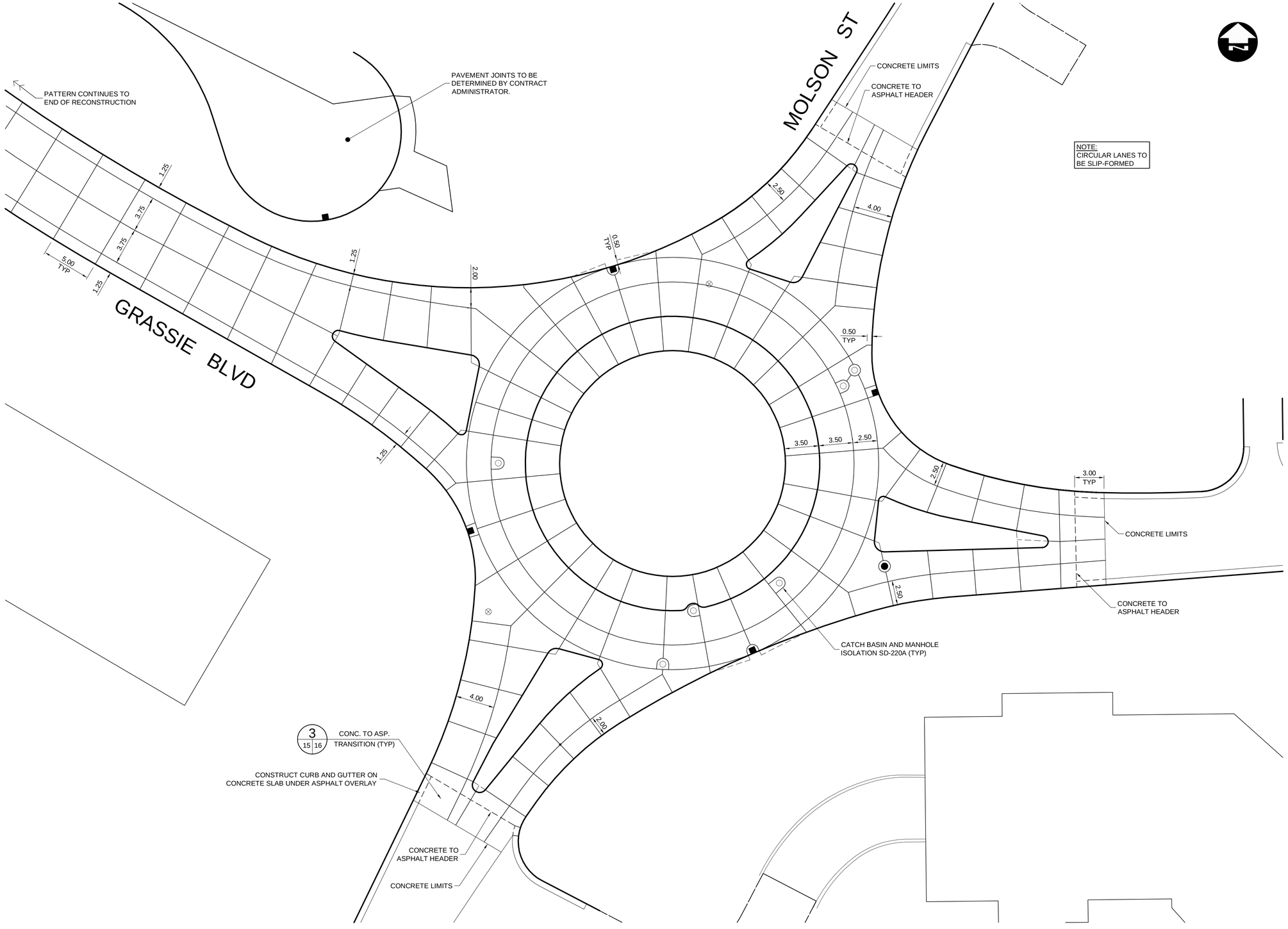

CONSTRUCTION NOTES:

1. ALL DIMENSIONS ARE TO BACK OF CURB.
2. ISOLATE MISCELLANEOUS ITEMS IN NEW CONCRETE WORKS AS PER SD-228C.
3. LEGAL PLAN AND UNDERGROUND INFORMATION FROM CITY OF WINNIPEG LBIS.
4. CONTRACTOR TO TAKE PRECAUTIONARY STEPS TO AVOID DAMAGE FROM CONSTRUCTION ACTIVITIES TO TREES WITHIN THE LIMITS OF CONSTRUCTION.
5. LOCATION OF EXISTING SERVICES TO BE CONFIRMED IN THE FIELD BY THE CONTRACTOR.
6. CB LEADS TO BE INSTALLED AT MIN. 1.0% SLOPE OR AS DIRECTED BY CONTRACT ADMINISTRATOR.
7. ADJUST EXISTING CATCH BASINS AND MANHOLES AND ISOLATE AS PER SD-220A.
8. GAS INFRASTRUCTURE NOTES:
   - 8.1. A MINIMUM VERTICAL SEPARATION OF 300 mm FROM GAS MAINS AND 100 mm FROM GAS SERVICE LINES MUST BE MAINTAINED BETWEEN THE BOTTOM OF ANY MANITOBA HYDRO FACILITY AND THE TOP OF ANY NEW CATCH BASIN OR LAND DRAINAGE SEWER.
   - 8.2. A MINIMUM HORIZONTAL SEPARATION OF 1.0 m MUST BE MAINTAINED BETWEEN ANY MANITOBA HYDRO FACILITY AND ANY NEW CATCH BASIN.
   - 8.3. A MINIMUM 900 mm OF COVER SHALL BE MAINTAINED IN ALL AREAS WHERE EQUIPMENT WILL BE CROSSING, TRAVELING OR COMPACTING OVER THE 168.3 mm GAS MAINS.
   - 8.4. A MINIMUM 600 mm OF COVER SHALL BE MAINTAINED IN ALL AREAS WHERE EQUIPMENT WILL BE CROSSING, TRAVELING OR COMPACTING OVER THE 114.3 mm AND 60.3 mm GAS MAINS.
   - 8.5. A MINIMUM 450 mm OF COVER SHALL BE MAINTAINED IN ALL AREAS WHERE EQUIPMENT WILL BE CROSSING, TRAVELING OR COMPACTING OVER THE GAS SERVICE LINES.
   - 8.6. IF EQUIPMENT MUST CROSS, TRAVEL, OR COMPACT OVER THE GAS MAIN WITH LESS THAN THE MINIMUM DEPTH OF COVER, EARTH BRIDGING OR STEEL PLATES SHALL BE PLACED OVER THE MAIN AND EXTEND A MINIMUM OF 1.0 m ON EITHER SIDE AT EACH CROSSING LOCATION.
   - 8.7. CAUTION MUST BE USED TO ENSURE THE INTEGRITY OF THE GAS PIPELINE COATING. ANY DAMAGES TO THE COATING MUST BE REPORTED TO AND REPAIRED BYMANITOBA HYDRO PRIOR TO BACKFILLING.
   - 8.8 ALL EXCAVATIONS WITHIN 1.0 m OF ANY NATURAL GAS MAIN MUST BE COMPLETED BY HAND OR SOFT DIG METHODS.
9. CONTRACTOR TO CONTACT JEFF SADLER OF NORSCAN INSTRUMENTS LTD. AT 233-9138 TO MARK OUT "DARK FIBRE NETWORK" PRIOR TO CONSTRUCTION.
10. PROTECT EXISTING LEGAL PINS IN NEW PAVEMENT UTILIZING A WATER VALVE INSERT. GRIND OFF SYMBOL ON COVER.
11. SEE P-3329-17 THROUGH 20 FOR TYPICAL CROSS-SECTIONS.

WARNING

IF POWER EQUIPMENT OR EXPLOSIVES ARE TO BE USED FOR EXCAVATION ON THIS PROJECT THE CONTRACTOR MUST:

1. NOTIFY THE GAS COMPANY OF THE PROPOSED LOCATION OF EXCAVATION.
2. TAKE PRECAUTION TO AVOID DAMAGE TO GAS COMPANY INSTALLATIONS SEE PROVINCIAL REGULATION 210/72 FOR DETAILS.
3. OBTAIN EXCAVATION PERMITS PRIOR TO CONSTRUCTION.

METRIC

WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

APEGM
Certificate of Authorization
Dillon Consulting Limited (MB)
No. 1789 Date: 06/08/2012

150 WM	WATERMAIN	150 WM	HYDRO	HYDRO	HYDRO	150 WM	WATERMAIN	150 WM
⊹	HYDRANT	◆	MTS	M.T.S.	MTS	⊹	HYDRANT	⊹
⊗	VALVE	⊗		CONCRETE			VALVE	
300 LDS	LAND DRAINAGE SEWER	300 LDS		ASPHALT		300 LDS	LAND DRAINAGE SEWER	300 LDS
250 WWS	WASTE WATER SEWER	250 WWS		PLANING		250 WWS	WASTE WATER SEWER	250 WWS
○	MANHOLE	●		SIDEWALK			℄ PROFILE	
□	CATCH BASIN	■		PAVING STONES			NORTH/WEST GUTTER	
▽	CURB INLET	▼		PARTIAL DEPTH REPAIR			SOUTH/EAST GUTTER	
	JUNCTIONS			PROPERTY LINE			NORTH/WEST DITCH	
	CULVERT		⊕	SURVEY BAR			SOUTH/EAST DITCH	
100 GAS	GAS	100 GAS		CURB RAMP				
EXISTING	LEGEND—PLAN	PROPOSED	EXISTING	LEGEND—PLAN	PROPOSED	EXISTING	LEGEND—PROFILE	PROPOSED

UNDERGROUND STRUCTURES

SUPV. U/G STRUCTURES COMMITTEE — DATE

NOTE:
LOCATION 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.

BENCHMARK: GEODETIC MARKER # 654321
N: 5531099.483 E: 639291.865

NO.	REVISIONS	DATE	BY
3	ISSUED FOR TENDER	06/08/12	DBW
2	ISSUED FOR REVIEW	05/31/12	DBW
1	ISSUED FOR REVIEW	07/28/11	DBW

DESIGNED BY DBW
DRAWN BY TJH
CHECKED BY DBW
APPROVED BY DPK
HOR. SCALE 1:200
VERTICAL
DATE

DILLON CONSULTING

RELEASED FOR CONSTRUCTION
DATE

ENGINEER'S SEAL
PROVINCE OF MANITOBA — ORIGINAL STAMPED BY D.B. WIEBE 06/08/2012 Member 22480 — REGISTERED PROFESSIONAL ENGINEER

CONSULTANT PROJECT NUMBER
11-4588

Winnipeg

THE CITY OF WINNIPEG
PUBLIC WORKS DEPARTMENT

ROUNDABOUT CONSTRUCTION
GRASSIE BOULEVARD AND MOLSON STREET INTERSECTION

CITY DRAWING NUMBER
P-3329-15

SHEET 15 OF 24

CONSULTANT DRAWING NUMBER

CONCRETE JOINT LAYOUT

G:\CAD\114588\Contract\Current\Joint Layout.dwg