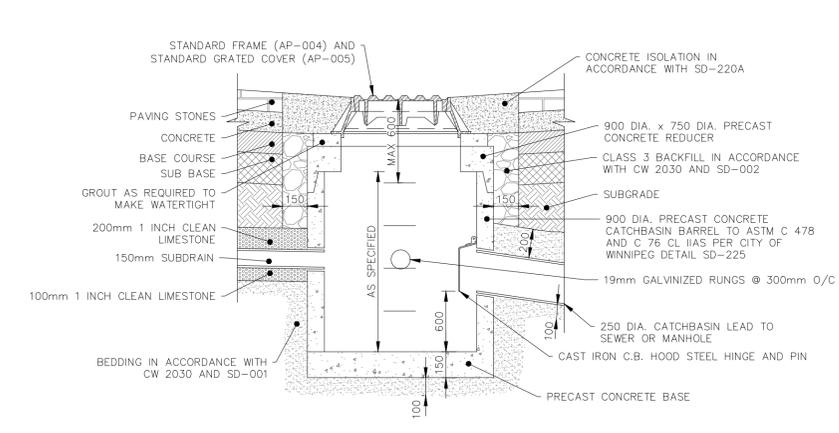
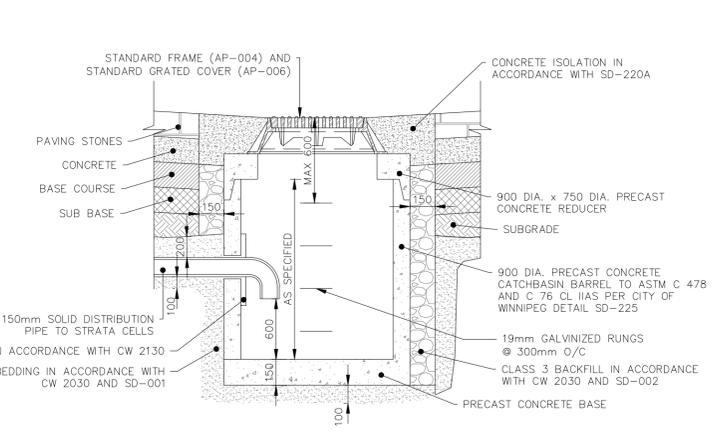


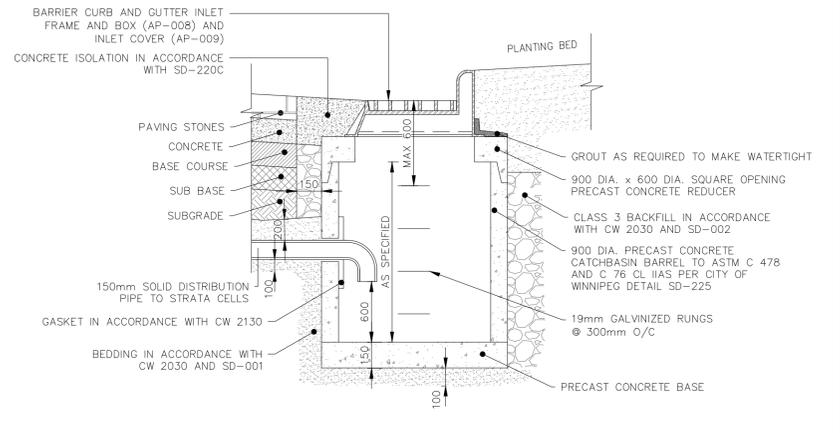
- NOTES:**
1. ALL WORK AND MATERIALS TO BE IN ACCORDANCE WITH THE LATEST REVISION OF THE CITY OF WINNIPEG STANDARD CONSTRUCTION SPECIFICATION AND CITY GREEN STRATA CELL SPECIFICATION.
 2. CONTRACTOR TO VERIFY DEPTH OF UTILITIES PRIOR TO CONSTRUCTION. LOCATIONS OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE, BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFORMATION OF EXISTENCE AND EXACT LOCATIONS OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.
 3. REFER TO TRANSPORTATION DRAWING FOR PAVING GEOMETRY.
 4. ADD 200.00m TO ALL PROPOSED ELEVATIONS TO OBTAIN GEODETIC.
 5. ALL STRATA CELLS ARE STRATA CELL 60 SERIES.
 6. 125mm AND 150mm DISTRIBUTION PIPE FROM STRATA CELL CATCHBASIN TO STRATA CELL MATRIX TO BE SOLID NON-PERFORATED HDPE.
 7. 125mm LATERAL PIPES TO BE FLEXIBLE, PERFORATED HDPE AND SHOULD BE INSTALLED WITHIN THE TOP LAYER OF MODULES.
 8. 150mm VERTICAL PIPE TO BE NON-PERFORATED HDPE TO CONNECT TO THE SURFACE OF PAVEMENT AND CAPPED WITH ROOTRAIN ARBORVENT (SQUARE SHAPE).
 9. 150mm SUBDRAIN TO BE FLEXIBLE, PERFORATED HDPE PIPE BELOW STRATA CELL MATRIX AND NON-PERFORATED HDPE PIPE OUTSIDE OF STRATA CELL MATRIX.
 10. LAND DRAINAGE SEWER CATCHBASIN LEADS TO BE PVC SERIES. CATCHBASINS ARE TO BE IN ACCORDANCE WITH THE CITY OF WINNIPEG STANDARD DETAILS SD-024 AND SD-025. SUMP DEPTH FOR ALL CATCHBASINS SHALL BE A MINIMUM OF 0.6m.
 11. ADJUST MH, CB RIMS, AND VALVES TO NEW GRADES.
 12. CONTRACTORS TO TAKE PRECAUTIONARY STEPS TO PROTECT EXISTING TREES WITHIN THE LIMITS OF CONSTRUCTION FROM DAMAGE FROM CONSTRUCTION ACTIVITIES AS OUTLINED IN THE SPECIFICATIONS.
 13. MODIFIED BARRIER CURB TO BE USED AT ALL INTERSECTION RADII, BACK LANE RADII, AND BULL NOSES.



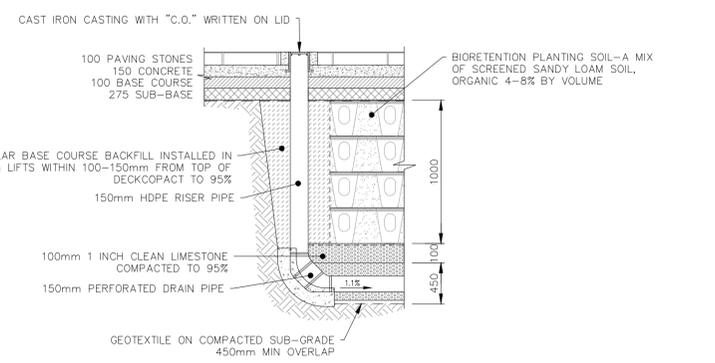
LDS CATCH BASIN DETAIL
NTS



STRATA CELL CATCH BASIN 1, 2 & 3 DETAIL
NTS



STRATA CELL CATCH BASIN 4 & 5 DETAIL
NTS



CLEANOUT DETAIL
NTS

May 25, 2016 - 11:26am
 P:\515038-05\515038-05-Strata Cell 2016-04-11.dwg - lab.c05

NOTE:
These design documents are prepared solely for the use by the party with whom the design professional has entered into a contract and there are no representations of any kind made by the design professional to any party with whom the design professional has not entered into a contract.

EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PROFILE	PROPOSED
---	WATERMAIN	---	---	HYDRANT	---	---	---	---
---	LAND DRAINAGE SEWER	---	---	VALVE	---	---	---	---
---	WASTE WATER SEWER	---	---	CURB STOP	---	---	---	---
---	HYDRO	---	---	GROUND GRADE	---	---	---	---
---	M.T.S.	---	---	PAVEMENT GRADE	---	---	---	---
---	GAS	---	---	ANCHOR	---	---	---	---
---	SIGNALS	---	---	ORNAMENT LIGHT	---	---	---	---
○	MANHOLE	●	○	HYDRO POLE	---	---	---	---
□	CATCH BASIN	■	□	CURB RAMP	---	---	---	---
△	CURB INLET	▽	△	EDGE OF SIDEWALK	---	---	---	---
---	UTILITIES ADJUST	△ □ ○	---	PROPERTY LINE	---	---	---	---
---	CLEANOUT	⊠	---	BARRIER CURB	---	---	---	---
---	ROOTRAIN ARBORVENT	■	---	BARRIER CURB & GUTTER	---	---	---	---
---	PLUG	⌋	---	PAVING STONES	---	---	---	---
---	EXISTING	---	---	LEGEND-PLAN	---	---	---	---
---	PROPOSED	---	---	LEGEND-PROFILE	---	---	---	---

LOCATIONS APPROVED UNDERGROUND STRUCTURES

DESIGNED BY: _____ DATE: _____
 SUPV U/G STRUCTURES: _____

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. CONFORMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING.

NO.	REVISIONS	DATE	BY
3	ISSUED FOR TENDER	05/25/16	JZ
2	ISSUED TO U/G STRUCTURES REVIEW	04/08/16	JZ
1	ISSUED FOR CITY OF WINNIPEG REVIEW	03/18/16	JZ

G.M. - ELEV. 232.205

10" IN OPEN ON FIREHYDRANT LOCATED AT THE SOUTHEAST CORNER OF RORE STREET AND MARKET AVENUE.

MMM GROUP

MMM Group Limited,
 Suite 111 - 93 Lombard Ave.
 Winnipeg, MB R3B 3B1
 T. 204.943.3178
 F. 204.943.4948
 www.mmm.ca

DESIGNED BY: JZ
 CHECKED BY: RMB
 DRAWN BY: VA
 APPROVED BY: JZ

HOR. SCALE: 1:250
 VERTICAL: 1:10

RELEASED FOR CONSTRUCTION: 03/15/16

DATE: 03/15/16



METRIC
 WHOLE NUMBERS INDICATE MILLIMETRES
 DECIMALIZED NUMBERS INDICATE METRES

APEGM
 Certificate of Authorization
 MMM Group Limited
 No. 4531

THE CITY OF WINNIPEG
 PUBLIC WORKS DEPARTMENT
 TRANSPORTATION DIVISION

Winnipeg

NORTH EAST EXCHANGE DISTRICT ENGINEERING STUDY
 STREET RENEWALS
 RECONSTRUCTION

JOHN HIRSCH PLACE
 STRATA CELL PLAN AND DETAILS

CITY DRAWING NUMBER: _____
 SHEET 5 OF 39
 BID NO. 345-2016