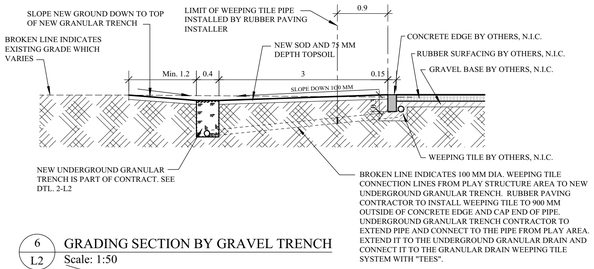


6 / L2 GRADING SECTION BY GRAVEL TRENCH
Scale: 1:50

GRADING NOTES:

1. EXISTING GRADE ELEVATIONS WERE SURVEYED BY KEN RECH LANDSCAPE ARCHITECTS AND MICHALENKO SURVEY ON APRIL 24, 2018. ELEVATIONS ARE GEODETIC AND REFERRED TO CITY OF WINNIPEG BENCH MARK No: 52-013 LOCATED IN THE CITY CONCRETE SIDEWALK AT THE SOUTHEAST CORNER OF CAMBRIDGE ST. AND GRANT AVENUE. SCALED BASE MAP IS BASED ON MEASUREMENTS UNDERTAKEN BY KEN RECH LANDSCAPE ARCHITECT INC. IN THE APRIL OF 2018.

2. UNLESS NOTED OTHERWISE, ALL NEW GRADES SHALL BE A STRAIGHT LINE FROM ONE GRADE POINT TO ANOTHER.

3. LOCATE AND PROTECT ALL UNDERGROUND UTILITIES, SURVEY MONUMENTS, ETC, PRIOR TO COMMENCING CONSTRUCTION.

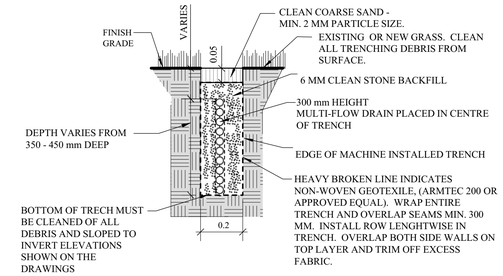
4. THE PLAYSTRUCTURE CONTRACTOR AND RUBBER PAVING CONTRACTOR IS RESPONSIBLE FOR ALL SITE GRADING WITHIN THE CONCRETE CURBING OF THE PLAYSTRUCTURE AREA. THE PLAYSTRUCTURE CONTRACTOR IS ALSO RESPONSIBLE FOR ANY SITE GRADING AND RESTORATION OF THE SOD IN THE CONSTRUCTION STAGING AREA, EXCEPT THE CONTRACTOR FOR THE REMAINING SITE WORKS SHALL GRADE THE 2.4 TO 3.6 METRE WIDTH OF AREA' IMMEDIATELY TO THE EAST OF THE EAST PLAYSTRUCTURE CONCRETE EDGE AND INSTALL THE MULTI-FLOW DRAINAGE PIPE.

5. NEW GRASS SHALL BE INSTALLED OVER A MIN. 75 MM DEPTH OF IMPORTED TOPSOIL. WHERE NEW GRASS IS BEING INSTALLED ON TOP OF EXISTING SHRUB BEDS, THE CONTRACTOR MAY USE THE EXISTING TOPSOIL IN THE SHRUB BED AS THE GROWING MEDIAN, ONCE THE EXCESS TOPSOIL IS REMOVED SO THE NEW GRASS WILL BE FLUSH WITH THE SURROUNDING GRASS. SEE DRAWING DETAIL 2-L1 FOR LOCATIONS WHERE EXISTING SHRUB BEDS ARE TO BE LOWERED AND SODDED TO MEET FLUSH WITH EXISTING SURROUNDING GRASS.

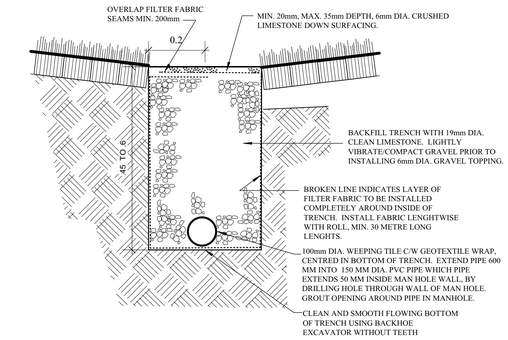
LAND DRAINAGE NOTES:

1. SERVICES TO BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE CITY OF WINNIPEG STANDARD CONSTRUCTION SPECIFICATION.

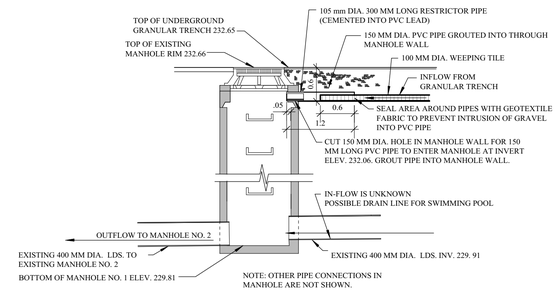
2. THE CONTRACTOR SHALL CONNECT THE NEW 400 MM WIDE UNDERGROUND GRANULAR DRAINAGE TRENCH WEEPING TILE INTO THE MANHOLE BY INSTALLING A 1.2 METRE LONG SECTION OF 150 MM DIA. PVC PIPE, WHICH PIPE IS TO EXTEND 50 MM INSIDE MANHOLE. INSTALL 105 MM DIA. x 300 MM LONG RESTRICTOR IN END OF PVC PIPE. INSTALL PVC PIPE INTO MANHOLE BY CUTTING THROUGH THE MANHOLE WALL AT INVERT ELEVATION 232.06, AND GROUT OPENING AROUND PVC. PIPE. INSTALL NEW WEEPING TILE 600 MM INSIDE OF PVC PIPE AND PLACE FILTER FABRIC AROUND THE WEEPING TILE/PVC CONNECTION TO PREVENT STONES FROM ENTERING THE PVC PIPE. SEE DTL. 4-L2.



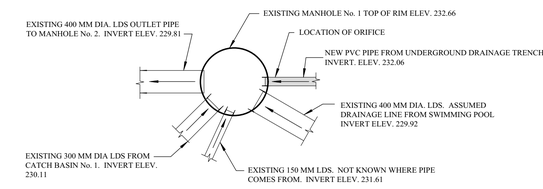
3 / L2 300 mm MULTIFLOW DRAINAGE SECTION
Scale: 1:10



2 / L2 UNDERGROUND GRANULAR TRENCH SECTION @ DEEPER POINT
Scale: 1:10

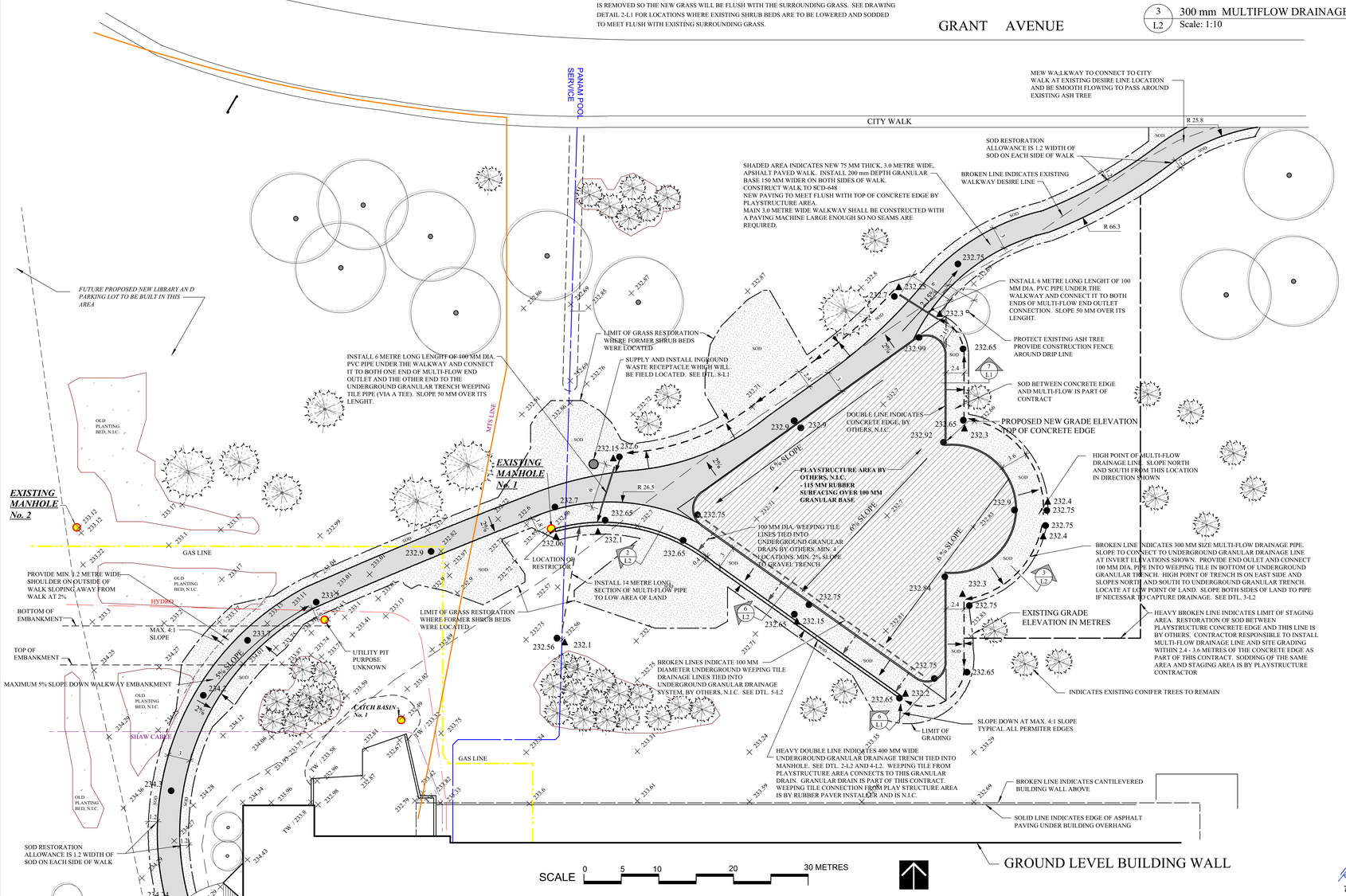


4 / L2 EXISTING MANHOLE No. 1 SECTION
Scale: NTS



5 / L2 EXISTING MANHOLE No. 1 PLAN
Scale: 1:50

N



1 / L2 SITE GRADING AND LAYOUT PLAN
Scale: 1:300

GRADING LEGEND:

232.83	EXISTING GRADE ELEVATION
● 232.75	NEW GRADE ELEVATION
▲ 232.3	INVERT ELEVATION OF BOTTOM OF GRANULAR TRENCH
2% →	DIRECTION OF DRAINAGE AND PERCENTAGE OF SLOPE
←— — —	300 MM MULTI-FLOW PIPE AND DIRECTION OF FLOW
═══	400 MM WIDE UNDERGROUND GRANULAR DRAINAGE TRENCH
— — —	100 MM DIA. WEEPING TILE BY PLAYGROUND RUBBER PAVING INSTALLER

LAND DRAINAGE NOTES :

PAN AM POOL PLAYGROUND
Area of site: 1,900 M² - 0.4695 acres
Percent impervious : 9.6%
Impervious: 0.0452 acres
Pervious: 0.4243

SITE DRAINAGE RESTRICTION
- Allowable discharge using a runoff "c" of 0.30 = 0.61cfs
- Required storage - 1,645 cubic feet
- Assumed storage is over the 0.4695 acres
  the depth of water will be 0.0804 feet or 0.9652 inches - rounded to 1 inch
- Orifice required in the 150 mm dia. pipe into Manhole No. 1 is 4.124 inches or 105 mm

CONFIRMATION THAT .6% SLOPE ACROSS NEW PLAY AREA IS ACCEPTABLE TO PLAYGROUNDS-R-US AND MEETS THE MANUFACTURES DESIGN/CONSTRUCTION REQUIREMENTS:

PRINT NAME _____
SIGNATURE _____
PRINT COMPANY TITLE _____
DATE _____

CONFIRMATION THAT .6% SLOPE ACROSS NEW PLAY AREA IS ACCEPTABLE TO PRAIRIE RUBBER SURFACING AND THAT DRAINAGE SLOPE MEETS THE MANUFACTURES DESIGN/CONSTRUCTION REQUIREMENTS:

PRINT NAME _____
SIGNATURE _____
PRINT COMPANY TITLE _____
DATE _____

GA PRATT & ASSOCIATES INC. ENGINEERING CONSULTANTS

manitoba association of landscape architects
KEN RECH
MEMBER NO. 408
June 26/2018

PROVINCE OF MANITOBA
G.A. PRATT
26/06/2018
REGISTERED ENGINEER

APEGM
Certificate of Authorization
G. A. Pratt & Associates Inc.
No. 758 Expiry: April 30, 2019

PROJECT TITLE	NO.	REVISIONS	BY	DATE
PAN AM POOL PLAYGROUND				

DRAWING TITLE
GRADING PLAN AND DETAILS

KEN RECH LANDSCAPE ARCHITECTS INC.
1480 Wellington Crescent Winnipeg Manitoba
Email: kenrech@mts.net R3N 0B3 Tel(204) 489-6616

DRAWN BY	SCALE	SHEET NO.
K. Rech	1:300	L2
PRINT DATE: JuLY 9, 2018	DATE: June 26, 2018	
FILE NO.: 18-02	REVISION: 0	

ORIGINAL SHEET: 24" x 36"