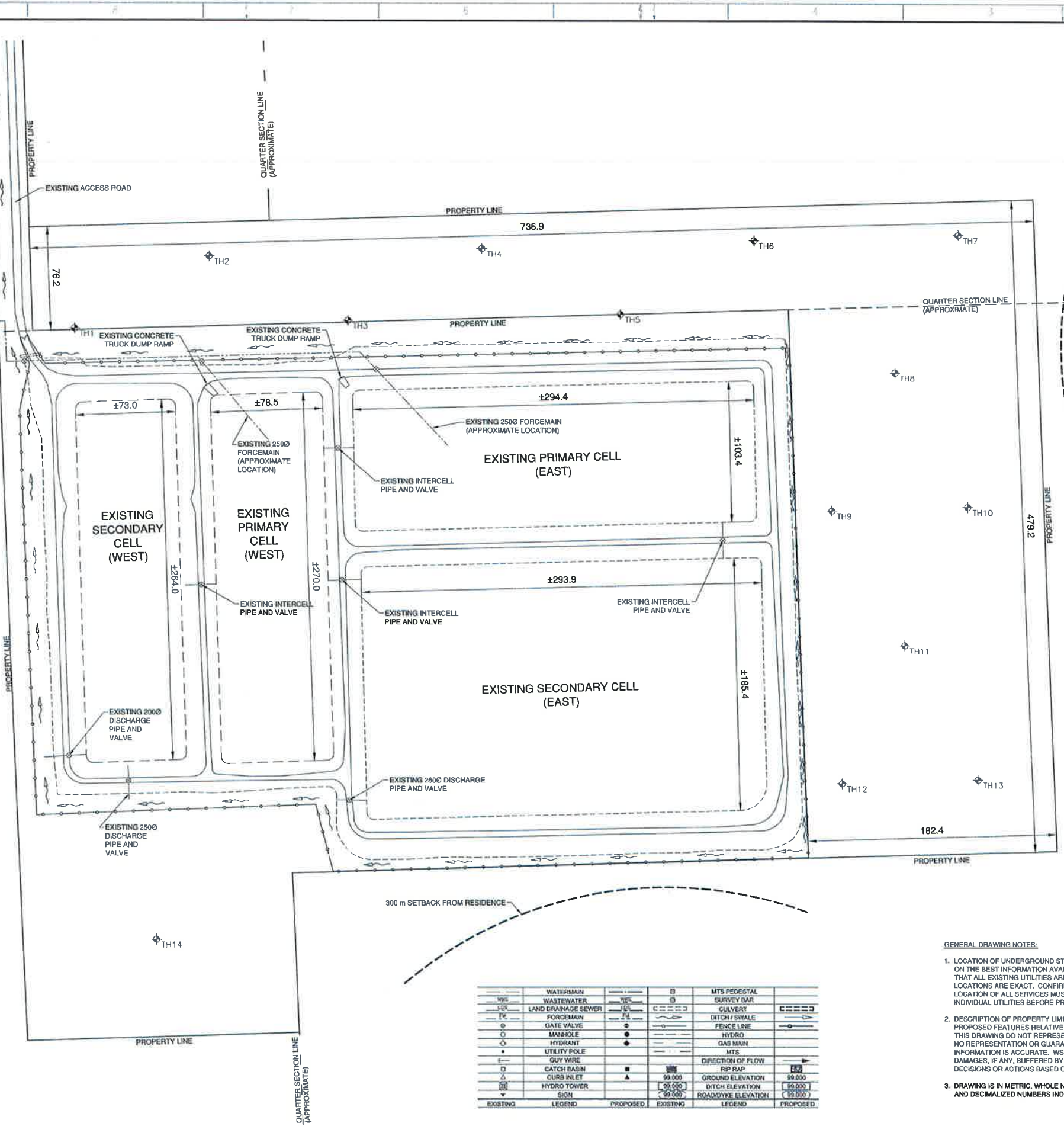

APPENDIX D
Plans and Details



NW 27-8-2 E
SW 27-8-2 E

NE 27-8-2 E
SE 27-8-2 E



EXISTING	LEGEND	PROPOSED	EXISTING	LEGEND	PROPOSED
—	WATERMAIN	—	—	MTS PEDESTAL	—
—	WASTEWATER	—	—	SURVEY BAR	—
—	LAND DRAINAGE SEWER	—	—	GULCHERY	—
—	FORCEMAIN	—	—	DITCH / SWALE	—
—	GATE VALVE	—	—	FENCE LINE	—
—	MANHOLE	—	—	HYDRO	—
—	HYDRANT	—	—	GAS MAIN	—
—	UTILITY POLE	—	—	MTS	—
—	GUY WIRE	—	—	DIRECTION OF FLOW	—
—	CATCH BASIN	—	—	RIP RAP	—
—	CURB INLET	—	—	GROUND ELEVATION	—
—	HYDRO TOWER	—	—	DITCH ELEVATION	—
—	SIGN	—	—	ROADWAY ELEVATION	—

- GENERAL DRAWING NOTES:**
- LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE. 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.
 - DESCRIPTION OF PROPERTY LIMITS, AND EXISTING AND/OR PROPOSED FEATURES RELATIVE TO THESE LIMITS AS SHOWN ON THIS DRAWING DO NOT REPRESENT A LEGAL SURVEY. WSP MAKES NO REPRESENTATION OR GUARANTEE THAT THE PROPERTY LIMIT INFORMATION IS ACCURATE. WSP ACCEPTS NO RESPONSIBILITY FOR DAMAGES, IF ANY, SUFFERED BY ANY THIRD PARTY AS A RESULT OF DECISIONS OR ACTIONS BASED ON THIS DRAWING.
 - DRAWING IS IN METRIC. WHOLE NUMBERS INDICATE MILLIMETRES, AND DECIMALIZED NUMBERS INDICATE METRES.

WSP
1600 BUFFALO PLACE
WINNIPEG, MANITOBA
CANADA, R3T 5B9
PHONE: 204-477-6650 FAX: 204-474-2564
WWW.WSPGROUP.COM

CONSULTANT:
PRELIMINARY
NOT FOR CONSTRUCTION
REDUCED DRAWING
DO NOT SCALE

SEAL:
APEGN
Certificate of Authorization
WSP Canada Inc.
No. 5750 Date January 30, 2014



CLIENT:
R.M. OF MACDONALD

CLIENT REF. #:
PROJECT:
R.M. OF MACDONALD
LA SALLE LAGOON EXPANSION

KEY PLAN:

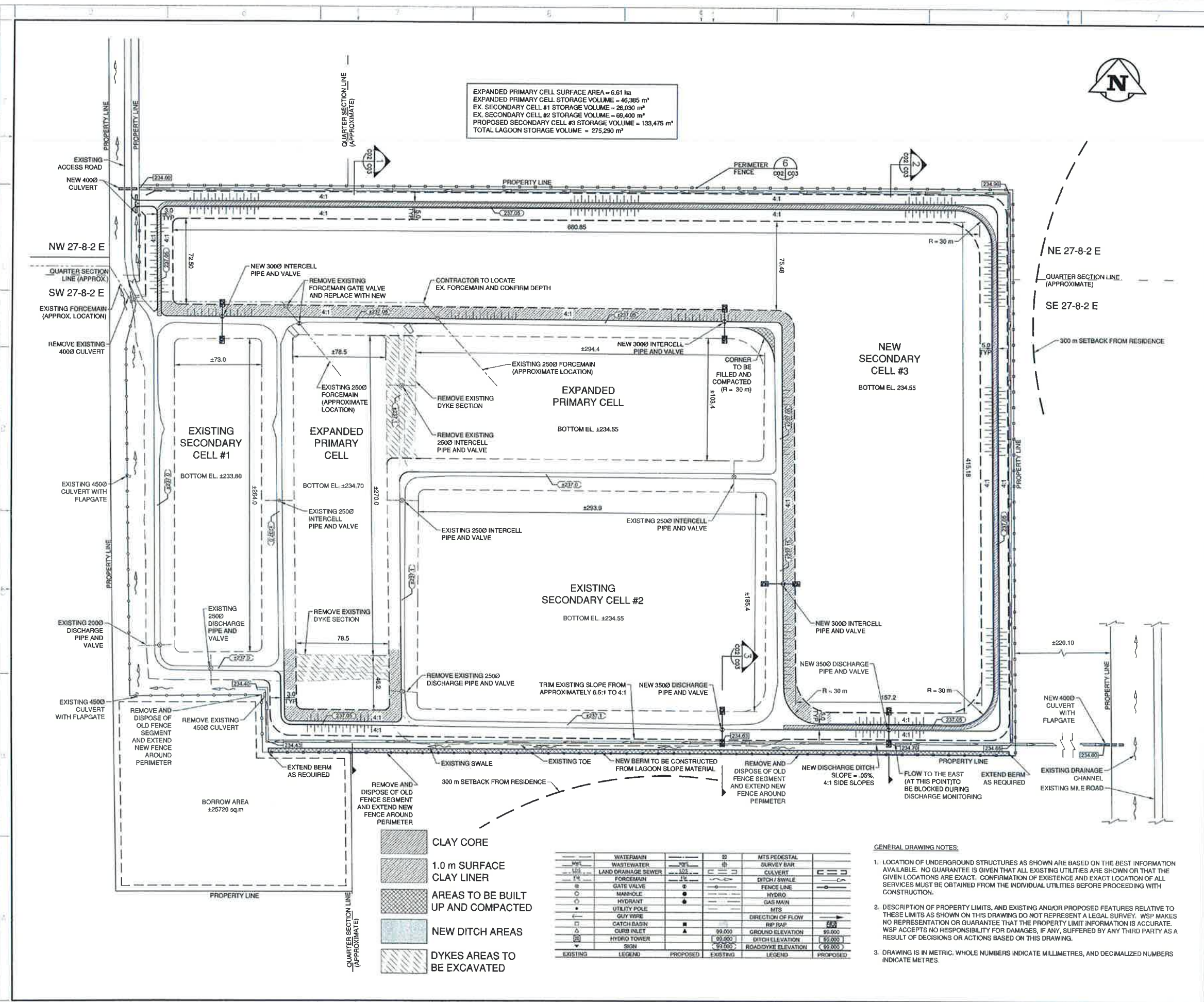
DISCLAIMER:
THIS DRAWING AND DESIGN IS COPYRIGHT PROTECTED WHICH SHALL NOT BE USED, REPRODUCED OR RELEASED WITHOUT WRITTEN PERMISSION BY WSP. THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND UTILITY LOCATIONS AND REPORT ALL DISCREPANCIES AND OMISSIONS PRIOR TO COMMENCING WORK. THIS DRAWING IS NOT TO BE SCALED.

ISSUED FOR - REVISION

NO.	DATE	DESCRIPTION
1	2014/01/30	EAP SUBMISSION

PROJECT NO:
131-21138-00
DATE:
2014/01/30
ORIGINAL SCALE:
1:1500
DESCRIBED BY:
D.T.G.B.
DRAWN BY:
D.T.G.B.
CHECKED BY:
R.W.W.
DESCRIPTIVE:
CIVIL
TITLE:
EXISTING SITE PLAN

SHEET NUMBER:
C01
SHEET #:
1 of 3
ISSUE:
EAP SUBMISSION
DATE OF: 2014/01/30
REV #:
0



EXPANDED PRIMARY CELL SURFACE AREA = 6.61 ha
 EXPANDED PRIMARY CELL STORAGE VOLUME = 46,385 m³
 EX. SECONDARY CELL #1 STORAGE VOLUME = 26,030 m³
 EX. SECONDARY CELL #2 STORAGE VOLUME = 69,400 m³
 PROPOSED SECONDARY CELL #3 STORAGE VOLUME = 133,475 m³
 TOTAL LAGOON STORAGE VOLUME = 275,290 m³



1500 BUFFALO PLACE
 WAINWATER, ALBERTA
 CANADA T3T 0E8
 PHONE: 204-477-5550 FAX: 204-474-2864
 WWW.WSPGROUP.COM

PRELIMINARY
 NOT FOR CONSTRUCTION

REDUCED DRAWING
 DO NOT SCALE



CLIENT: R.M. OF MACDONALD
 PROJECT: R.M. OF MACDONALD LA SALLE LAGOON EXPANSION

DISCLAIMER: THIS DRAWING AND DESIGN IS COPYRIGHT PROTECTED WHICH SHALL NOT BE USED, REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS WITHOUT WRITTEN PERMISSION BY WSP. THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND UTILITY LOCATIONS AND REPORT ALL ERRORS AND OMISSIONS PRIOR TO COMMENCING WORK. THIS DRAWING IS NOT TO BE SCALED.

ISSUED FOR - REVISION	DATE	DESCRIPTION
1	2014/01/30	EAP SUBMISSION

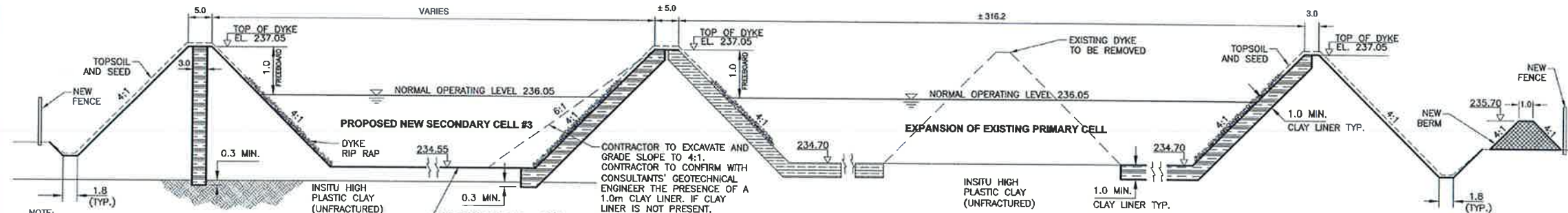
PROJECT NO: 131-21138-00
 ORIGINAL SCALE: 1:1500
 DESIGNED BY: D.T.G.B.
 DRAWN BY: D.T.G.B.
 CHECKED BY: R.W.W.
 DISCIPLINE: CIVIL

TITLE: PROPOSED SITE PLAN
 SHEET NUMBER: C02
 SHEET #: 2 OF 3
 ISSUE: EAP SUBMISSION
 DATE OF: 2014/01/30

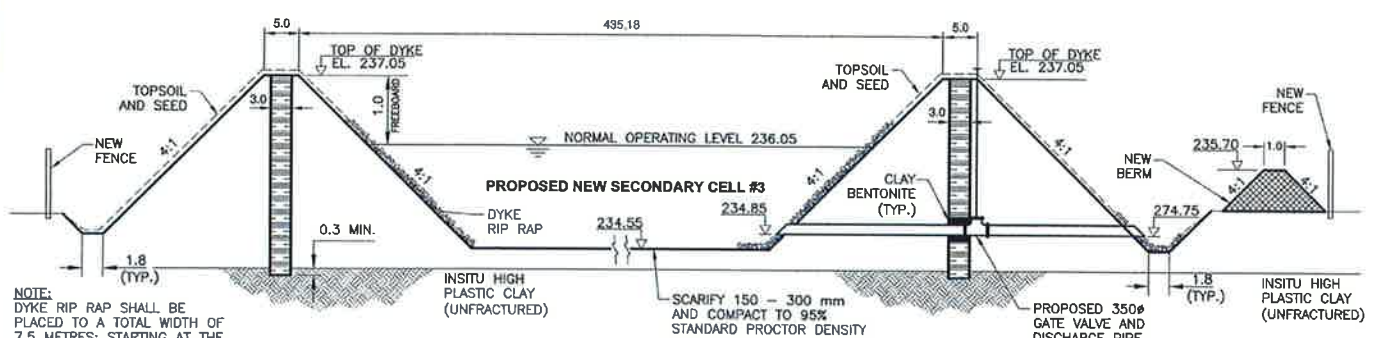
- CLAY CORE
- 1.0 m SURFACE CLAY LINER
- AREAS TO BE BUILT UP AND COMPACTED
- NEW DITCH AREAS
- DYKES AREAS TO BE EXCAVATED

EXISTING	LEGEND	PROPOSED	EXISTING	LEGEND	PROPOSED
WSL	WATERMAIN	WSL	SS	MTS PEDESTAL	SS
WWS	WASTEWATER	WWS	SB	SURVEY BAR	SB
LDS	LAND DRAINAGE SEWER	LDS	CV	CULVERT	CV
FM	FORCEMAIN	FM	DS	DITCH/SWALE	DS
GV	GATE VALVE	GV	FL	FENCE LINE	FL
M	MANHOLE	M	H	HYDRO	H
HY	HYDRANT	HY	GS	GAS MAIN	GS
UP	UTILITY POLE	UP	MTS	MTS	MTS
GW	GUY WIRE	GW	DF	DIRECTION OF FLOW	DF
CB	CATCH BASIN	CB	RR	RIP RAP	RR
CI	CURB INLET	CI	GE	GROUND ELEVATION	GE
HT	HYDRO TOWER	HT	DE	DITCH ELEVATION	DE
S	SIGN	S	RE	ROAD/DYKE ELEVATION	RE

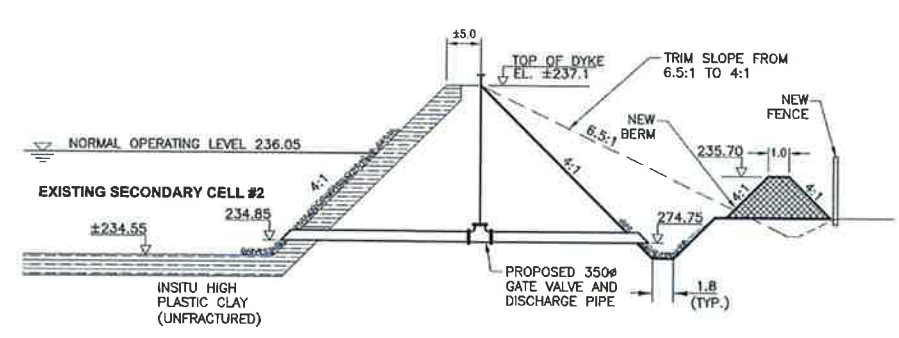
- GENERAL DRAWING NOTES:
- LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE. NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.
 - DESCRIPTION OF PROPERTY LIMITS, AND EXISTING AND/OR PROPOSED FEATURES RELATIVE TO THESE LIMITS AS SHOWN ON THIS DRAWING DO NOT REPRESENT A LEGAL SURVEY. WSP MAKES NO REPRESENTATION OR GUARANTEE THAT THE PROPERTY LIMIT INFORMATION IS ACCURATE. WSP ACCEPTS NO RESPONSIBILITY FOR DAMAGES, IF ANY, SUFFERED BY ANY THIRD PARTY AS A RESULT OF DECISIONS OR ACTIONS BASED ON THIS DRAWING.
 - DRAWING IS IN METRIC. WHOLE NUMBERS INDICATE MILLIMETRES, AND DECIMALIZED NUMBERS INDICATE METRES.



1 NORTH-SOUTH SECTION OF NEW SECONDARY CELL AND EXPANSION OF EXISTING PRIMARY CELL
C02 C03 N.T.S.



2 NORTH-SOUTH SECTION OF NEW SECONDARY CELL #3
C02 C03 N.T.S.



3 NORTH-SOUTH SECTION OF EXISTING SECONDARY CELL #2
C02 C03 N.T.S.

- CLAY LINER - HYDRAULIC CONDUCTIVITY $< 1 \times 10^{-7}</math> cm/s$
- EXISTING CLAY LINER
- AREAS TO BE BUILT UP AND COMPACTED

NOTE: DYKE RIP RAP SHALL BE PLACED TO A TOTAL WIDTH OF 7.5 METRES; STARTING AT THE TOE AND EXTENDING UPWARD ALONG THE INTERIOR SLOPE OF THE DYKE

900 x 1300

DANGER

LA SALLE WASTEWATER STABILIZATION FACILITY

REPORT TO R.M OF MACDONALD OFFICE PRIOR TO ENTERING FACILITY

TEL: 204-736-2255

- NOTE:
- 1) MAIN ENTRANCE SIGNAGE TO BE ATTACHED AND INSTALLED WITH TWO 4X4 PRESSURE TREATED WOOD POSTS
 - 2) SIGN TO BE CONSTRUCTED OF ALUMINUM, AIR MASTER QUALITY OR APPROVED EQUAL

4 MAIN ENTRANCE SIGNAGE DETAIL
N.T.S.

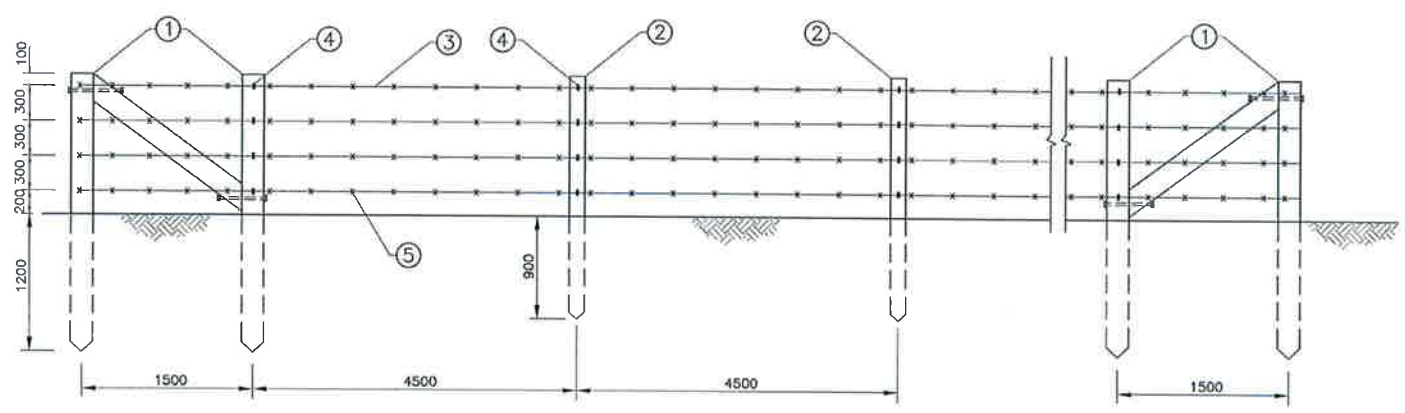
750 x 900

DANGER

LA SALLE WASTEWATER STABILIZATION FACILITY

- PERIMETER FENCE SIGNAGE NOTES:
- 1) PERIMETER SIGNAGE TO BE SECURED TO PERIMETER FENCE POSTS EVERY 50 m AROUND ENTIRE FACILITY
 - 2) SIGNS TO BE CONSTRUCTED OF ALUMINUM, AIR MASTER QUALITY OR APPROVED EQUAL

5 PERIMETER FENCE SIGNAGE DETAIL (TYP.)
N.T.S.



6 PERIMETER FENCE DETAIL
C02 C03 N.T.S.

- NOTES:
1. CORNER POSTS: 175# TREATED WOOD POST, 2400mm LONG
 2. REGULAR POSTS: 125# TREATED WOOD POST, 2100mm LONG
 3. 2 STRAND 2# GALVANIZED WIRE (TYP.)
 4. WIRE FENCE STAPLES (TYP.)
 5. 4 POINT BARBS (TYP.)

- GENERAL DRAWING NOTES:
1. LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE. 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.
 2. DESCRIPTION OF PROPERTY LIMITS, AND EXISTING AND/OR PROPOSED FEATURES RELATIVE TO THESE LIMITS AS SHOWN ON THIS DRAWING DO NOT REPRESENT A LEGAL SURVEY. WSP MAKES NO REPRESENTATION OR GUARANTEE THAT THE PROPERTY LIMIT INFORMATION IS ACCURATE. WSP ACCEPTS NO RESPONSIBILITY FOR DAMAGES, IF ANY, SUFFERED BY ANY THIRD PARTY AS A RESULT OF DECISIONS OR ACTIONS BASED ON THIS DRAWING.
 3. DRAWING IS IN METRIC. WHOLE NUMBERS INDICATE MILLIMETRES, AND DECIMALIZED NUMBERS INDICATE METRES.



1500 BUFFALO PLACE
WINNIPEG, MANITOBA
CANADA R3T 6E9
PHONE: 204-477-5850 FAX: 204-474-2864
WWW.WSPGROUP.COM

PRELIMINARY
NOT FOR CONSTRUCTION

REDUCED DRAWING
DO NOT SCALE



R.M. OF MACDONALD

R.M. OF MACDONALD
LA SALLE LAGOON EXPANSION

DISCLAIMER: THIS DRAWING AND DESIGN IS COPYRIGHT PROTECTED WHICH SHALL NOT BE USED, REPRODUCED OR FORWARDED WITHOUT WRITTEN PERMISSION BY WSP. THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND UTILITY LOCATIONS AND REPORT ALL ERRORS AND OMISSIONS PRIOR TO COMMENCING WORK. THIS DRAWING IS NOT TO BE SCALED.

ISSUED FOR - REVISION	NO.	DATE	DESCRIPTION
	1	2014/01/30	EAP SUBMISSION

PROJECT NO. 131-21138-00	DATE 2014/01/30
DESIGNED BY D.T.G.B.	CHECKED BY R.W.W.
DRAWN BY D.T.G.B.	DISCIPLINE CIVIL
TITLE CROSS SECTIONS, SIGN AND FENCE DETAILS	SHEET NUMBER C03
	SHEET # 3 of 3
	DATE OF: 2014/01/30

ISSUE	NO.
EAP SUBMISSION	0