### GENERAL NOTES

- READ THE STRUCTURAL DRAWINGS IN CONJUNCTION WITH ALL OTHER PERTINENT CONTRACT DOCUMENTS.
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL VERIFY DIMENSIONS BEFORE BEGINNING CONSTRUCTION AND REPORT DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK. DO NOT SCALE DRAWINGS.
- THE DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE NATIONAL BUILDING CODE OF CANADA 1995, ITS SUPPLEMENTS AND THE LATEST EDITIONS OF REFERENCED CODES AND STANDARDS THEREIN, UNLESS NOTED OTHERWISE. DESIGN CLEARWELL BELOW ELEVATION 238,700 TO ACI 350 AND FOR CLEARWELL ABOVE ELEVATION 238.700 TO CSA-A23.1-00.
- REFER TO THE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATIONS AND DIMENSIONS OF OPENINGS, SLEEVES AND OTHER BUILDING COMPONENTS NOT SHOWN ON THE STRUCTURAL DRAWINGS. REPORT DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION.
- CONTRACTOR TO CONFIRM DIMENSIONS, WEIGHTS AND ALL OTHER CRITICAL DETAILS WITH EQUIPMENT SUPPLIERS PRIOR TO CONSTRUCTION. REPORT DISCREPANCIES TO THE ENGINEER AND OBTAIN AUTHORIZATION IN WRITING PRIOR TO PROCEEDING WITH CONSTRUCTION. NOTIFY THE ENGINEER A MINIMUM 48 HOURS IN ADVANCE FOR REVIEWS.
- DRAWINGS SHOW COMPLETED STRUCTURE ONLY. PROVIDE TEMPORARY BRACING FOR CONSTRUCTION LOADING CONDITIONS AND STABILITY OF THE STRUCTURE DURING CONSTRUCTION. CONSTRUCTION LOADS SHALL NOT
- CONSTRUCTION METHODS REQUIRING TEMPORARY SHORING. OR BRACING. SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW. THE CONTRACTOR SHALL RETAIN A PROFESSIONAL ENGINEER, EXPERIENCED AND REGISTERED IN THE PROVINCE OF MANITOBA. TO PERFORM AND TAKE RESPONSIBILITY FOR ANY SHORING OR OTHER DESIGNS REQUIRED TO COMPLETE THE CONSTRUCTION.
- VERIFY LOCATION OF ALL UNDERGROUND SERVICES PRIOR TO COMMENCING CONSTRUCTION AND BE RESPONSIBLE FOR DISRUPTIONS.
- CONSTRUCTION TO ALLOW FOR THE INSTALLATION ONLY OF THE FOLLOWING SLEEVE:
  - 12 150mm 7 – 200mm 5 – 300mm

THE SAID SLEEVES MAY BE PVC OR METAL. MOST OF THEM WILL BE IN THE CLEAR WELL ROOF AND FLOOR OF THE OUTLET AND INLET BUILDING. IN ADDITION TO THE ABOVE, THE CONSTRUCTOR TO ALLOW FOR THE INSTALLATION ONLY OF 2 - 2700¢ PIPE SECTION AND 1 -1800¢ PIPE SECTION. REFER TO MECH/PROCESS DRAWING FOR INFORMATION.

#### DESIGN LOADS: (CLEARWELL)

EXCEED THE DESIGN LOADS.

- ROOF STRUCTURE .1) SELF WEIGHT .2) ADDITIONAL MECHANICAL &
- ELECTRICAL ROOF LOAD = .3) ROOF SUPPORTING
- MECHANICAL & ELECTRICAL POINT LOADS ANYWHERE = .4) SUPERIMPOSED

## 2. LIVE LOADS: .1) GROUND SNOW LOAD - Ss = 1.7 kPa

MODIFY FOR EXPOSURE AND DRIFT AS PER NBC 1995. 0.42 kPa .2) WIND q(1/30) =4.8 kPa CLEAR WELL FLOOR U/N =

UNIFORM = 4.8 kPa EQUIPMENT = 135 kN OVER 3mx3m AREA

## VERTICAL LOAD COMBINATIONS:

- 1. D.L. (SELF WEIGHT) + D.L. (SUPERIMPOSED) + L.L. (UNIFORM)
- 2. D.L. (SELF WEIGHT) + D.L. (SUPERIMPOSED) + PARTIAL L.L.
- 3. D.L. (SELF WEIGHT) + D.L. (SUPERIMPOSED) + L.L. (EQUIPMENT)

## LATERAL LOAD:

- 1. SOIL: UNIT WEIGHT =
  - 19.64 kN/m<sup>3</sup>

7.2 kPa

1.0 kPa

1.0 kN

16.8 kPa

WATER PRESSURE TO SURGE ELEV. 236.440 2. WATER SIDE:

## LATERAL LOAD COMBINATIONS:

1. SOILS SIDE: GROUND WATER TABLE TO EL. 236.500 + FULL ACTIVE PRESSURE, RESERVOIR EMPTY

## SURCHARGE CONDITIONS:

## **OUTLET AND INLET BUILDING:**

.A) EQUIPMENT = 24 kPa .B) ALL OTHER AREAS = 15.6 kPa

2. WATER SIDE WATER LEVEL TO SURGE EL. 236.440, NO ACTIVE SOIL PRESSURE.

# FOUNDATION NOTES

1. PRECAST CONCRETE PILE FOUNDATION NOTES: BUILDING FOUNDATIONS ARE DESIGNED AS DRIVEN, END BEARING. PRESTRESSED PRECAST CONCRETE PILES WITH THE FOLLOWING DESIGN LOADS:

400 DIAMETER = 800kN

2. PILE CUT OFF ELEVATION NOTE:

PILES CUT OFF ELEVATIONS SHALL BE AS SHOWN IN THE PILING SECTIONS OF THE DRAWING DOCUMENTS. A MINIMUM OF 450mm OF STRAND SHALL BE EXPOSED FOLLOWING PILE CUT OFF.

### REINFORCING STEEL NOTES

- DEFORMED BARS CONFORMING TO CSA-G30.18, GRADE 400. TIES AND STIRRUPS TO CSA-G30.18 MINIMUM GRADE 300.
- REINFORCING WORK SHALL BE IN ACCORDANCE WITH CSA-23.1-00 AND CSA-23.3.
- REINFORCING STEEL SHALL BE DETAILED IN ACCORDANCE WITH THE RSIC "REINFORCING STEEL MANUAL OF STANDARD PRACTICE"
- REINFORCING TO BE CONTINUOUS UNLESS NOTED. LAP TOP BARS AT MIDSPAN, BOTTOM BARS AT SUPPORTS. MINIMUM LAP FOR 10M BARS TO BE 450. MINIMUM LAPS FOR OTHER BARS TO BE CLASS B SPLICES BUT NOT LESS THAN LAPS AS NOTED IN DRAWINGS: WHERE REINFORCEMENT LAPS ARE REQUIRED IN ADJACENT BARS, STAGGER
- LAPS MINIMUM 1200 UNLESS NOTED OTHERWISE.
- PLACE NON-METALLIC REBAR CHAIR FOR SLAB REINFORCING NOT FURTHER THAN 1000mm IN EITHER DIRECTION. SUPPLY SUPPORT BARS, CHAIRS AND CARRIERS
- DOWELS AND ANCHOR BOLTS SHALL BE SECURED IN POSITION BY MEANS OF TEMPLATES BEFORE CONCRETE IS CAST.
- 90 DEGREE HOOKS AND 180 DEGREE HOOKS WHERE SHOWN SHALL BE DETAILED AS STANDARD HOOKS UNLESS NOTED OTHERWISE.
- MINIMUM REINFORCING AROUND OPENINGS LARGER THAN 300mm (IF NOT DETAILED): 1-15M EACH SIDE AND EACH FACE OF OPENING AND 1-15M DIAGONAL AT EACH CORNER. EXTENDED 600mm PAST CORNERS BUT NOT LESS THAN AS NOTED ON DRAWINGS.
- UNLESS SPECIFIED OTHERWISE HEREIN, TOLERANCES FOR REINFORCING STEEL **REQUIREMENTS:**

A) CONCRETE PROTECTION SECTIONS < 300

ALL OTHERS B) LOCATION

> SECTIONS < 300 SECTIONS 300 TO 600 ALL OTHERS

± 20 mm C) LOCATION OF BAR ENDS ± 50 mm

# EXCAVATION, BACKFILLING AND COMPACTION NOTES

- EXCAVATE TO LINES AND LEVELS NECESSARY TO PROPERLY COMPLETE THE WORK. MINIMUM SIDE SLOPES OF TEMPORARY EXCAVATIONS SHALL NOT EXCEED 2 HORIZONTAL TO 1 VERTICAL FOR FOOTING & FLOOR SLAB. CONTROL EXCAVATION TO ENSURE BOTTOM OF EXCAVATION DOES NOT SOFTEN DUE TO EXCESS MOISTURE. CONSTRUCT SLOPES IN BOTTOM OF EXCAVATION FOR DRAINAGE AS REQUIRED.
- THE CONTRACTOR SHALL PROVIDE SHORING DURING EXCAVATION AS REQUIRED AND ALSO STATED ON DRAWINGS.
- EXCAVATION BETWEEN PILES SHALL BE DONE WITH SUITABLE EQUIPMENT AND CARE SO AS NOT TO DAMAGE PILES.
- EXCAVATE TRENCHES FOR PERIMETER DRAIN PIPE AND TO MINIMUM UNIFORM SLOPE SHOWN. EXCAVATE TO LINES AND GRADES INDICATED. PLACE PERIMETER DRAIN PIPE TO UNIFORM SLOPE ON TRENCH BOTTOM. WRAP WITH GEOTEXTILE FABRIC AND STONE AS PER SPECIFICATIONS AND AS INDICATED ON
- DO NOT PLACE BACKFILL ON FROZEN GROUND, NOR USE FROZEN MATERIAL.
- SUPPLY & INSTALL TEMPORARY BACKFILL AS NOTED ON DRAWINGS. ROOF BACKFILL SEE SPECIAL REQUIREMENTS FOR CONSTRUCTION METHODS,
- REFER TO DWG WT-039. PROTECTION FOR ACCESS ROADS OVER PILING - COVER SHALL CONSIST OF
- 900mm THICK OVER PILE CUT OFF ELEVATION OF 100mm DOWN CLEAN LIMESTONE. THIS TEMPORARY BACK FILL SHALL BE PLACED SO THAT PROJECTING PILE STRANDS SHALL REMAIN IN VERTICAL POSITION COMPLETE WITH SAFETY CAPS.
- ACCESS ROUTES ON NEW FLOOR SLAB CONSTRUCTION CONCRETE SHALL HAVE MINIMUM 75% DESIGN STRENGTH. FOR VEHICLES OF GROSS VEHICLE WEIGHT OVER 30kN (REFER TO SLAB PROTECTION DETAIL THIS DWG). CONTRACTOR SHALL SUBMIT VEHICLE LOADING TO THE CONTRACT ADMINISTRATOR FOR REVIEW AND ACCEPTANCE DATA SHALL INCLUDE AXLE LOADING, WHEEL ARRANGEMENT, AND GROSS VEHICLE WEIGHT. ALL FUEL OR CONTAMINATING SPILLS SHALL BE CLEANED UP IMMEDIATELY TO SATISFACTION OF CONTRACT ADMINISTRATOR.
- DEWATERING

THE DRAWINGS.

- THE CONTRATOR SHALL RESPONSIBLE FOR THE CONTROL OF SURFACE DRAINAGE ON THE EXCAVATIONS COMPLETED BY THE BULK EXCAVATION CONTRACT.
- DEWATERING SYSTEMS SHALL BE DESIGNED TO EXPEDITIOUSLY REMOVE WATER FROM BOTH THE CLEARWELL EXCAVATION UNTILL WALL BACKFILIING IS COMPLTED AND FROM THE WATER TREATMENT PLANT EXCAVATION UNTIL OCTOBER 31, 2005.
- THE DEWATERING SYSTEMS MUST PROTECT THE SUBGRADE SOILS FROM EXCESSIVE SOFTENING AND SATURATION. PERIMETER SLOP CUTOFF DITCHING SHALL NOT BE CUT LOWER THAN ELEVATION 229.400 AND SHALL NOT EXTEND BEYOND A 2 METRE DISTANCE FROM THE EDGE OF WALL FOOTINGS.
- ALL ACCESS ROADWAYS SHALL EMPLOY CULVERTS AS REQUIRED FOR THE CONTRACTOR'S PROPOSED EXCATION DEWATERING PLAN.
- THE CONTRACTOR SHALL SUBMIT THE PROPOSED DEWATERING PLAN TWO (2) WEEKS PRIOR TO COMMENCEMENT OF CONSTRUCTION TO THE CONTRACT ADMINISTRATOR FOR REVIEW AND ACCEPTANCE.

# CONCRETE NOTES

- PROVIDE CONCRETE AND PERFORM WORK TO CSA-A23.1-00 UNLESS SPECIFIED HEREIN. THE CONTRACTOR SHALL HAVE A COPY OF THIS STANDARD ON SITE AT ALL TIMES. IN A EVENT OF CONFLICT, THE MOST STRINGENT REQUIREMENT SHALL APPLY.
- FORMWORK AND FALSEWORK DESIGN SHALL BE COMPLETED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF MANITOBA. SUBMIT TO ENGINEER FOR REVIEW.
- TEST CONCRETE IN ACCORDANCE WITH CSA-A23.2-00 TEST RESULTS WILL BE ISSUED TO CONTRACTOR, CONTRACT ADMINISTRATOR AND CITY.
- SPECIFIED SLUMPS ARE PRIOR TO THE ADDITION OF ANY ACCEPTED PLASTICIZING ADMIXTURE. WHEN CONCRETE IS PLACED BY PUMPING. THE LISTED SLUMPS SHALL BE AT DISCHARGE. ALL CONCRETE SHALL BE NORMAL WEIGHT 2400 kg/CUBIC METER UNLESS NOTED OTHERWISE.

Certificate of Authorization Earth Tech Canada Inc. No. 730 Expiry: April 30, 2005

NO. REVISIONS

- PROVIDE 20mm CHAMFER ON ALL EXPOSED CONCRETE CORNERS.
- VERIFY SIZE AND LOCATION OF ALL OPENINGS, CURBS AND EQUIPMENT PADS WITH PROCESS, MECHANICAL AND ELECTRICAL DRAWINGS AND PROCESS, MECHANICAL AND ELECTRICAL CONTRACTORS. MAJOR OPENINGS NOT SHOWN TO BE VERIFIED WITH ENGINEER.
- CONSTRUCTION JOINTS: SURFACE PREPARATION SHALL BE BY SAND BLASTING TO EXPOSE FINE AGGREGATE. WATERSTOPS SHALL BE PROTECTED WITH SUITABLE 12mm BOARD SANDWICH. REINFORCING STEEL SHALL BE CLEANED BY SAND BLASTING METHOD AS WELL.
- GROUT: NON-SHRINK, NON-METALLIC GROUT WITH MINIMUM STRENGTH AT THREE DAYS OF 20 MPa AND MINIMUM STRENGTH AT 28 DAYS OF 50 MPa.
- VOID FORM 1 AND VOID FORM 2 SEE SPECIFICATION SECTION 03100 FOR SPECIAL REQUIREMENTS.
- THE CONTRACTOR SHALL NOTIFY THE INSPECTION & TESTING FIRM, IN AMPLE TIME TO PERMIT SCHEDULING, PRIOR TO ANY CONCRETE POUR. IF AMPLE TIME IS NOT ALLOWED, ALTERNATE CONCRETE TESTS WILL BE PERFORMED TO THE SATISFACTION OF THE CONTRACT ADMINISTRATOR AND PAID FOR BY THE CONTRACTOR.
- AT LEAST THREE CONCRETE CYLINDERS WILL BE TAKEN FOR EVERY 75 CUBIC METERS OR LESS OF 11. EACH CLASS OF CONCRETE PLACED. ADDITIONAL FIELD CYCLINDERS MAY BE TAKEN AS DIRECTED BY THE CONTRACT ADMINISTRATOR TO EXPEDITE CONSTRUCTION. AIR AND SLUMP TESTS MAY BE TAKEN ON EVERY CONCRETE LOAD. SLUMP TESTS WILL BE TAKEN PRIOR TO ADDITION OF SUPERPLASTISIZER.

#### 12. CONCRETE REQUIREMENTS:

± 6 mm

±8 mm

± 12 mm

± 10 mm

00.10	THE THE GOTTE THE									
TYPE	LOCATION	28-DAY STRENGTH fc'(MPa)	CEMENT TYPE	AGGREG. MAX. (mm)	SLUMP (mm)	TOTAL AIR %	MAX. W/C RATIO	AGGREG. RATIO COARSE/FINE		
1)	COLUMNS	35	10	20	S.P.	5-8	0.40	60/40		
2)	ROOF SLAB	30	10	20	S.P.	5-8	0.40	55/45		
3)	WALLS	30	50	50% - 20 50% - 40	S.P.	4-7	0.40	65/35		
4)	FLOOR SLAB	35	50	40	75	4-7	0.40	65/35		
5)	WALL FOOTING	30	50	40	75	4-7	0.40	65/35		
6)	LEAN MIX FILL	10	50	40	100	N/A	0.55	50/50		

NOTE: S.P. - SUPER PLASTICISER

MINIMUM CEMENT CONTENT FOR TYPE 50 CEMENT TO BE 280 kg/CUBIC METER. MAXIMUM WATER/CEMENT RATIO FOR TYPE 50 CEMENT TO BE 0.40. NO ENTRAINED AIR FOR ANY CONCRETE TO RECEIVE HARDENER.

PROVIDE CLEAR CONCRETE COVER OVER REBAR AS NOTED ON DRAWINGS AND FOLLOWS:

A)	WALL FOOTINGS	TOP & BOTTOM SIDES		75 mm 100 mm
B)	WALLS	TOP SIDES		65 mm 65 mm
C)	COLUMNS	SIDES	_	65 mm
D)	ROOF SLABS	BOTTOM TOP		65 mm 50 mm

- 14. CONCRETE CONSTRUCTION TOLERANCES:
  - 1.) CROSS SECTIONAL DIMENSIONS 300mm OR LESS  $\pm$  6 mm 300mm TO 1000mm ± 12 mm

1000mm OR GREATER

2.) PLUMBNESS OF WALLS AND COLUMNS SHALL BE 1:500, BUT TOTAL SUM OF THE DEVIATION (±) FROM A PLUMB LINE SHALL NOT EXCEED 14mm FOR THE HEIGHT OF THE STRUCTURE.

± 20 mm

- 3.) VARIATION FROM HORIZONTAL AND VERTICAL REFERENCE SYSTEM AND GENERAL DIMENSIONS:
  - A) HORIZONTAL

± 100 mm PILING FOOTINGS ± 20 mm COLUMNS AND WALLS ± 6 mm B) VERTICAL ± 25 mm PILE CUT OFF FOOTINGS ± 25 mm COLUMNS AND WALLS ± 8 mm

WALL AND BEAM ± 4 mm C) FLATNESS

GENERAL SURFACES (8mm GAP ALONG 3000mm STRAIGHT EDGE)

MODERATELY FLAT

ROUGH-FORM FINISH

2005/02/24

DATE

- CONCRETE CURING, PROTECTION, AND FINISHING UNLESS SPECIFIED HEREIN: .1) CURING - TO CSA-A23.1-00 CLAUSE 21 AS FOLLOWS:
- A) VERTICAL SURFACES SPECIFIED CURING SEALER

EXTERIOR SURFACES

NOT EXPOSED TO VIEW

DATE | BY | DATE

- HORIZONTAL SURFACES WALL FOOTINGS MAY BE SPECIFIED CURING SEALER OR WET BURLAP. FLOOR AND ROOF SLABS SHALL BE BURLAP WITH SOAKER HOSES AND POLYETHYLENE SHEET COVER.
- .2) COLUMNS, INTERIOR AND EXTERIOR WALL VERTICAL SURFACES THAT WILL RETAIN WATER SHALL USE FORM LINER AS PER SPECIFICATION SECTION 03100.
- .3) SURFACE FINISHES TO CSA-A23.1-00 CLAUSE 22 AND SPECIFIED HEREIN: FLOOR SLABS AND FOOTING POWER STEEL TROWEL FINISH

CLEARWELL ROOF POWER STEEL TROWEL FINISH INTERIOR SURFACES SMOOTH-FORM FINISH EXPOSED TO VIEW INTERIOR SURFACES ROUGH-FORM FINISH NOT EXPOSED TO VIEW

ANY DISCREPANCIES BETWEEN CSA STANDARDS AND CONSTRUCTION DOCUMENTS, THE MOST STRINGENT SHALL APPLY, AND AS DIRECTED BY THE CONTRACT ADMINISTRATOR.

# MISCELLANEOUS METALS — ALUMINUM

- ALUMINUM: CONFORMING TO ALUMINUM ASSOCIATION ALLOY AND TEMPER DESIGNATION 6061-T6 OR 6351-T6.
- PERFORM WELDING OF ALUMINUM IN ACCORDANCE WITH REQUIREMENTS OF CSA W59.2; COMPANY CERTIFICATION TO CSA W47.2.
- BOLTS AND ANCHOR BOLTS: CONFORMING TO STAINLESS STEEL C/W ISOLATION WASHERS.
- BITUMINOUS PAINT: TO CAN/CGSB-1.108.

ADDL

ISOLATE ALUMINUM FROM FOLLOWING COMPONENTS, BY MEANS OF BITUMINOUS PAINT: DISSIMILAR METALS EXCEPT STAINLESS STEEL, ZINC, OR WHITE BRONZE OF SMALL AREA.

INSIDE DIAMETER

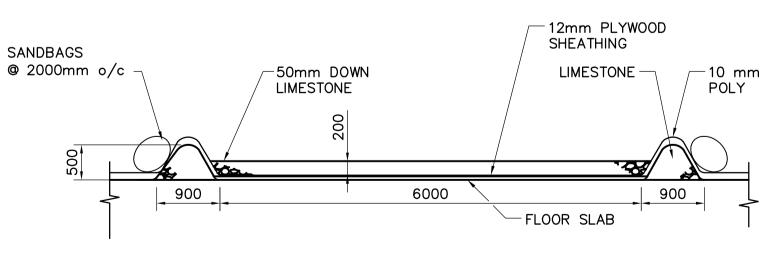
I.D.

### STANDARD ABBREVIATIONS:

ADDITIONAL

.2 CONCRETE, MORTAR AND MASONRY.

AT	@	INSULATION	INSUL
ANCHOR BOLT	A. BOLT	INTERIOR	INT
ALTERNATE	ALTER.	KILONEWTON	kN
ALUMINUM	ALUM	LIVE LOAD	L.L.
	APPROX	LOCATION	LOC'N
APPROXIMATELY ARCHITECTURAL	ARCH	LONG	LGCIN
		LONG LEG HORIZONTAL	LLH
AVERAGE	AVG.	LONG LEG VERTICAL	LLV
BALANCE	BOT BAL	MATERIAL	MATL
BOTTOM LOWER LAYER		MAXIMUM	MAX
BOTTOM LOWER LAYER BOTTOM UPPER LAYER	BLL	MECHANICAL	MECH
	BUL	MEZZANINE	MEZZ
BETWEEN	BTWN	MINIMUM	MIN
BUILDING BENCH MARK	BLDG	MISCELLANEOUS	MISC
BENCH MARK	B.M.	NEAR SIDE	N.S.
BEARING	BRG		N.STUD
BY (Between dims)	x (lower case)	NELSON STUD NUMBER	No.
CENTERLINE CENTER TO CENTER	Ç C/C	NOT TO SCALE	
CENTER TO CENTER		NOT TO SCALE ON CENTER	N.T.S.
CAST IN PLACE	C.I.P.	ON CENTER	o/c (lower ca
CONCRETE MASONRY UNIT		OUTSIDE FACE	0.F.
CONSTRUCTION JOINT	C.J.	OUT TO OUT	0/0
COMPLETE WITH	C/W	OUTSIDE DIAMETER	O.D.
COLUMN	COL	OPENING OPPOSITE	OPNG
CONCRETE	CONC		OPP
CONTINUOUS	CONT	ORIGINAL	ORIG
DEAD LOAD	D.L.	OPEN WEB STEEL JOIST	OWSJ
DIAMETER	DIA	PERIMETER	PERIM
DOWN	DN	PERPENDICULAR PLATE	PERP PL
DRAWING	DWG	PRECAST	P/C
DOWEL	DWL	PRELIMINARY	PRELIM.
EACH FACE	E.F.	PROJECTION	PROJ
EXPANSION JOINT	E.J.	REINFORCE WITH	
EACH END	E.E.	REINFORCING	R/W REINF
EACH SIDE	E.S.	REQUIRED	REQD
EACH WAY	E.W.	REVISION	REV.
ELEVATION	EL.	ROOF DRAIN	R.D.
ELECTRICAL	ELECT	SECTION	SECT.
EQUAL	EQ	SHEET	SHT
EQUAL SPACES	EQ SP	SIMILAR	SIM
EXISTING	EXIST	SPECIFICATION	SPEC
EXPANSION	EXP.	STAINLESS STEEL	S.S.
EXTERIOR	EXT	STANDARD	STD
FAR SIDE	F.S.	STIFFENER	STIFF
FACE TO FACE	F/F	STIRRUP	STIRR
FACE OF CONCRETE	F.O.C.	STRUCTURAL	STRUCT
FOUNDATION	FDN	SYMMETRICAL	SYM
FOOTING	FTG	TOP LOWER LAYER	TLL
FULL TENSION SPLICE	F.T.S.		T.O.
GALVANIZE	GALV	TOP OF TOP UPPER LAYER	TUL
GAUGE	GA		TYP
HANGER	HGR	TYPICAL	
HOLLOW STRUCTURAL STEEL	HORIZ	UNLESS NOTED OTHERWISE	U/N
HOLLOW STRUCTURAL STEEL	HSS HT	UNDERSIDE	U/S VERT
HEIGHT INSIDE FACE		VERTICAL WIND LOAD	
INSIDE FACE	I.F.	WIND LOAD	W.L.



VEHICLE ACCESS CLEARWELL FLOOR SLAB PROTECTION

B.M. ELEV.			СН2МНІЦ	EarthTech A Tyco International Ltd. Company	ENGINEER'S SEAL	THE CITY OF WINNIPEG		
			Frederickson Cooper		ORIGINAL SIGNED BY	Winnipeg WATER AND WASTE DEPARTMENT ENGINEERING DIVISION		
			DESIGNED BY FK	CHECKED BY FK	M. KLASSEN	WATER TREATMENT PLANT	CITY FILE NUMBER	
			DRAWN BY C.T.	APPROVED BY AHL	2005/04/17	CLEARWELL CONSTRUCTION	SHEET OF	
			HOR. SCALE:	RELEASED FOR CONSTRUCTION BY:		STRUCTURAL	CITY DRAWING NUMBER	
00 ISSUED FOR TENDER	05/04/17	C.T.	VERTICAL SCALE:	R. SOROKOWSKI	CONSULTANT DRAWING NO. WT-S001	GENERAL NOTES	1-601T-D-S0001-001-00D	

2005-04-17