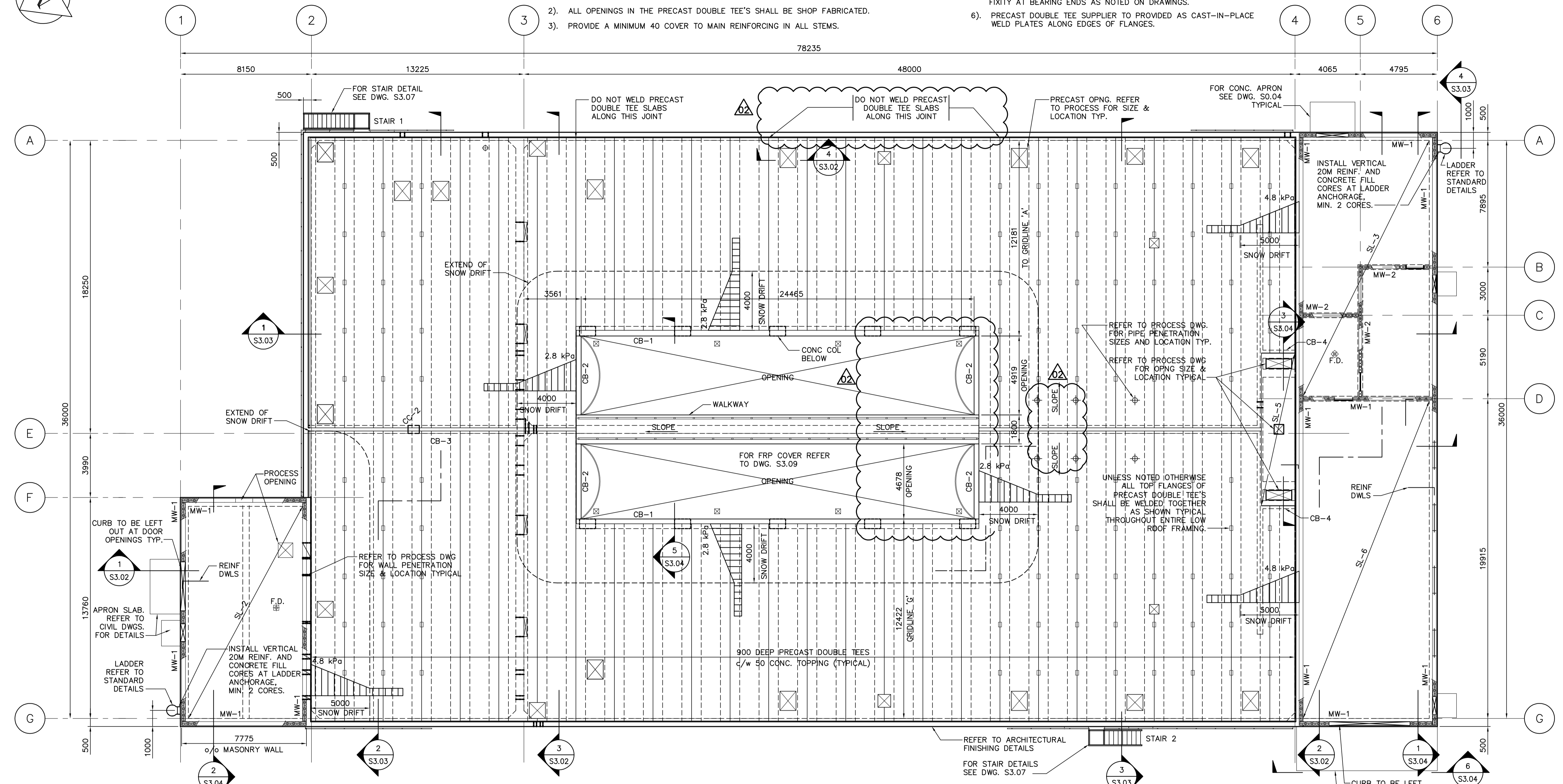


PRECAST DOUBLE TEE NOTES:

- 1). PRECAST DOUBLE TEE SUPPLIER TO PROVIDE CALCULATIONS AND SHOP DRAWINGS FOR REVIEW PRIOR TO FABRICATION. SHOP DRAWINGS SHALL INCLUDE DESIGN LOADS, OPENINGS, BEARING DETAILS AND SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF MANITOBA.
- 2). ALL OPENINGS IN THE PRECAST DOUBLE TEE'S SHALL BE SHOP FABRICATED.
- 3). PROVIDE A MINIMUM 40 COVER TO MAIN REINFORCING IN ALL STEMS.
- 4). ALL REINFORCING BARS AND MESH REINFORCING SHALL BE GALVANIZED.
- 5). PRECAST DOUBLE TEE SUPPLIER TO DESIGN & PROVIDE ALL CAST-IN PLATES, BEARING PLATES, SHOES AND WELD PLATES TO ENSURE PRECAST DBL TEE FIXITY AT BEARING ENDS AS NOTED ON DRAWINGS.
- 6). PRECAST DOUBLE TEE SUPPLIER TO PROVIDED AS CAST-IN-PLACE WELD PLATES ALONG EDGES OF FLANGES.



DESIGN LOADS:
EQUALIZATION TANK, SBR-1 & SBR-2

1. DEAD LOADS:
 - 1). STRUCTURE SELF WEIGHT 1.0 kPa
 - 2). ROOFING = 2.0 kPa
 - 3). MECHANICAL LOAD 2.0 kPa
 - 4). MAX. CONCENTRATED LOAD SUSPENDED 1.8 kN AT ANY STEM POINT U.O.N. ON STRUCT./MECH. DWG'S
 - 5). MAX. CONCENTRATED LOAD TOPSIDE 2.5 kN AT ANY STEM POINT U.O.N. ON (STRUCT./MECH.) DWG'S. SINGLE STEM MAY HAVE MORE THAN ONE POINT LOAD. POINT LOAD BASED ON MAX. SUPPORT SPACING OF 3.0 M
 - 6). CONC. TOPPING 1.2 kPa
2. LIVE LOADS
 - 1). GROUND SNOW LOAD - $S_s = 1.7 \text{ kPa}$
 $S_r = 0.2 \text{ kPa}$
MODIFY FOR EXPOSURE AND DRIFT AS PER NBC 1995.
 - 2). RAIN LOAD: 0.0 kPa AT PARAPETS VARYING UNIFORMLY TO 0.5 kPa AT DRAINS
 - 3). WIND $q(1/30) = 0.42 \text{ kPa}$
 - 4). OCCUPANCY 2.4 kPa
 - 5). MAX. NEGATIVE PRESSURE 0.65 kPa
 - 6). MAX. POSITIVE PRESSURE 0.05 kPa
 - 7). EARTH PRESSURE (DRAINED) 17.5 kPa
 - 8). SURCHARGE 10 kPa

BLOWER BUILDING

- DEAD LOADS:
 - 1). STRUCTURE SELF WEIGHT
 - 2). SUPERIMPOSED = 12.0 kPa
- LIVE LOADS:
 - 1). OCCUPANCY (ELECT., SAMPLE & CONTROL RMS) 4.8 kPa
 - 2). OCCUPANCY (BLOWER RM.) 10.0 kPa

EXHAUST FAN BUILDING

- DEAD LOADS:
 - 1). STRUCTURE SELF WEIGHT
 - 2). SUPERIMPOSED = 12.0 kPa
- LIVE LOADS:
 - 1). OCCUPANCY 7.2 kPa

LOWER ROOF FRAMING PLAN
SCALE 1:125

- DRAWING NOTES:**
- 1). REFER TO CIVIL DRAWINGS FOR ALL APRON SLAB SIZES
 - 2). CONCRETE BONDED TOPPING OVER PRECAST DOUBLE TEE'S SHALL BE REINFORCED WITH GALVANIZED WELDED WIRE 152x152 MW13.3xMW13.3
 - 3). THE CONCRETE BONDED TOPPING OVER PRECAST DOUBLE TEE'S SHALL PROVIDE A CONTROL JOINT OVER JOINT INDICATED THAT SHALL NOT HAVE FLANGES WELDED TOGETHER.
 - 4). THE BONDED CONCRETE TOPPING OVER THE PRECAST DOUBLE TEE'S SHALL STOP AT THE CENTRE BEARING OF THE TEES TO PROVIDE A 40 GAP THE FULL LENGTH OF THE COVER.
 - 5). DURING INSTALLATION OF ALL PRECAST DOUBLE TEE'S AND HOLLOWCORE ROOF PLANKS ALL LIFTING EQUIPMENT, TRUCKS, ETC. SHALL STAY A MINIMUM OF 9.0m AWAY FROM THE PERIMETER TANK WALLS OF THE SBR'S AND EQUALIZATION TANK.
 - 6). THE BONDED CONCRETE TOPPING SHALL EXTEND OVER SLAB SL-5



B.M. ELEV.		EarthTech A Tyco International Ltd. Company		ENGINEER'S SEAL	
DESIGNED BY: LLR	CHECKED BY: GGP	ORIGINAL SIGNED BY: LL. RIDING		2006/05/15	
DRAWN BY: WDB	APPROVED BY: JEH	CONSULTANT DRAWING NO. S2.03		CITY FILE NUMBER	
SCALE: AS NOTED	RELEASED FOR CONSTRUCTION BY: K. MARTENS	CITY DRAWING NUMBER		SHEET OF	
NO. REVISIONS	DATE BY	DATE	DATE	1-0101C-B-S0002-001-020	
		2006/01/16	2006/05/15	STRUCTURAL SBR BUILDING LOWER ROOF FRAMING PLAN	

THE CITY OF WINNIPEG
Winnipeg WATER AND WASTE DEPARTMENT
ENGINEERING DIVISION

NEWPCC CENTRATE NUTRIENT TREATMENT NITROGEN REMOVAL FACILITY

STRUCTURAL SBR BUILDING LOWER ROOF FRAMING PLAN