

**1 NORTH AND SOUTH COOLING TOWERS (WELLS ON 22nd FLOOR) - DEMOLITION**  
 SCALE 1:100



**2 COOLING WATER RETURN LINE**  
 SCALE N.T.S.



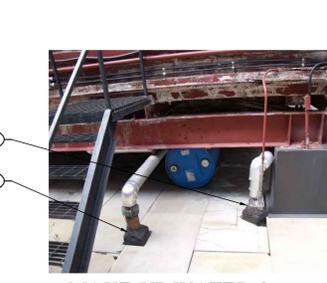
**3 MAKE-UP WATER & SANITARY VENT**  
 SCALE N.T.S.



**4 COOLING WATER SUPPLY LINE**  
 SCALE N.T.S.



**5 COOLING WATER RETURN LINE**  
 SCALE N.T.S.



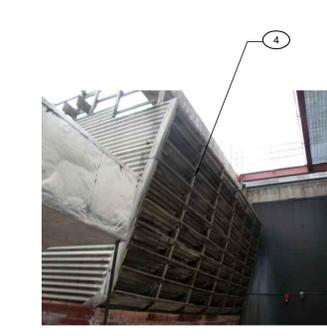
**6 MAKE-UP WATER & SANITARY VENT**  
 SCALE N.T.S.



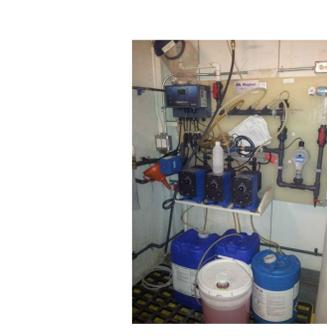
**7 COOLING WATER SUPPLY LINE**  
 SCALE N.T.S.



**8 SOUTH COOLING TOWER**  
 SCALE N.T.S.



**9 NORTH COOLING TOWER**  
 SCALE N.T.S.



**10 CHEMICAL TREATMENT**  
 SCALE N.T.S.

**GENERAL NOTES**

- 1. FOR PIPE SIZES, VALVES AND TRIM LOCATION, REFER TO DETAIL '1' OF DRAWING 'M04'.

**DRAWING NOTES**

- 1. CUT EXISTING CONDENSER COOLING WATER SUPPLY LINE. PROVIDE WELDED SLIP ON FLANGE, BUTTERFLY SHUT-OFF VALVE AND BLIND FLANGE TO TEMPORARILY BLOCK ACCIDENTAL WATER FLOW. REMOVE ALL PIPES DOWNSTREAM OF NEW VALVE. TYPICAL.
- 2. CUT EXISTING CONDENSER COOLING WATER RETURN LINE APX 300MM ABOVE ROOF LEVEL. PROVIDE WELDED SLIP ON FLANGE, BUTTERFLY SHUT-OFF VALVE AND BLIND FLANGE TO TEMPORARILY BLOCK ACCIDENTAL WATER FLOW. REMOVE ALL PIPES UPSTREAM OF NEW VALVE. TYPICAL.
- 3. EXISTING MAKE-UP WATER PIPE. REMOVE ALL PIPES AND THERMAL INSULATION UP TO ROOF LEVEL AND CAP. PROTECT PIPE DURING DEMOLITION AND NEW EQUIPMENT INSTALLATION. SEE DRAWING M04 FOR NEW SCOPE OF WORK. TYPICAL.
- 4. REMOVE ENTIRE EXISTING TOWER. DRAWING INDICATE IN GENERAL TERMS OUTLINE OF EXISTING COOLING TOWER FOR INFORMATION ONLY. SEE SPECIFICATION FOR DEMOLITION PROCEDURE. DISCONNECT, REMOVE AND MAKE SAFE ALL MECHANICAL AND ELECTRICAL SERVICES. SEE ARCHITECTURAL SPECIFICATION AND THE DESIGNATED SUBSTANCE REPORT FOR HAZARDOUS MATERIAL ASSESSMENT.
- 5. STRUCTURAL SUPPORTS FOR COOLING TOWER TO BE REMOVED. SEE STRUCTURAL DRAWINGS FOR SCOPE OF WORK. TYPICAL.
- 6. PROTECT ROOF DRAINS DURING ENTIRE PROJECT. TYPICAL.
- 7. REMOVE AND REINSTATE EXISTING DUCT WORK TO ALLOW NEW TOWER INSTALLATION. COORDINATE SERVICES INTERRUPTION REINSTATE DUCT IMMEDIATELY AFTER EQUIPMENT IS IN PLACE. REPAIR DUCT INSULATION AND DUCT SUPPORTS. DUCT SIZE APPROXIMATELY 900 x 500.
- 8. PROTECT EXISTING AIR HANDLING SYSTEM. IF SHUT DOWN REQUIRED, COORDINATE WITH DEPARTMENT REPRESENTATIVES.
- 9. DISCONNECT AUXILIARY MECHANICAL SERVICES FOR TOWERS. REMOVE PIPE AND CAP. PROTECT TEMPORARY DISCONNECT SERVICES FOR DURATION OF ENTIRE PROJECT.
- 10. APPROXIMATE AREA OCCUPIED BY CHEMICAL TREATMENT SYSTEM. MODIFY AS OUTLINED IN SPECIFICATION. REPLACE ALL PIPING RELATED TO CHEMICAL TREATMENT INSIDE CHEMICAL STORAGE ROOM. APPROXIMATELY 30M.
- 11. APPROXIMATE LOCATION OF EXISTING HEAT EXCHANGER AND CIRCULATING PUMP. REMOVE EXCHANGER, PUMP AND ASSOCIATED PIPES (APPROXIMATELY 80 METERS). CUT AND CAP BRANCH PIPE CLOSE TO TAKE-OFF FROM MAIN.
- 12. NOT USED.
- 13. APPROXIMATE LOCATION OF SLEEVE THROUGH FLOOR FOR NEW 50mm DIAMETER DISCHARGE LINE FOR FILTRATING AND CHEMICAL TREATMENT.
- 14. OUTLINE OF CONCRETE STRUCTURAL BEAMS ABOVE. PAY ATTENTION TO OVERHEAD OBSTRUCTION DURING REMOVAL AND NEW EQUIPMENT HOISTINGS. TYPICAL.



Contractor to verify all dimensions & conditions on site and immediately notify the engineer of all discrepancies.

revisions	description	date
01	ISSUED FOR TENDER	30-07-13

A	C	A	B	C
A detail no. n° du détail		A B C		
B location drawing no. sur dessin n°				
C drawing no. dessin n°				

**L'ESPLANADE LAURIER COOLING TOWERS REPLACEMENT**

140 O'CONNOR ST., OTTAWA (ONTARIO)

**DEMOLITION NORTH AND SOUTH TOWER WELLS - 22nd FLOOR**

Designed By	C.MODRAK	Conçu par	
Date	2012/12/12	(yyyy/mm/dd)	
Drawn By	G.TREMBLAY	Dessiné par	
Date	2012/12/12	(yyyy/mm/dd)	
Reviewed By	D.ROY	Examiné par	
Date	2013/01/30	(yyyy/mm/dd)	
Approved By	D.ROY	Approuvé par	
Date	2013/01/30	(yyyy/mm/dd)	
Tender	DAVID RUETER	Soumission	
Project Manager	Administrateur de projets		
Project no.	No. du projet		
	<b>R.049987.003</b>		
Drawing no.	No. du dessin		
	<b>M02</b>		

Drawing name: K:\A\000135 - L'Esplanade Laurier Cooling Tower Replacement\M001-35 Cooling Towers\M02 - Demolition Jul 30, 2013 - 4:34pm