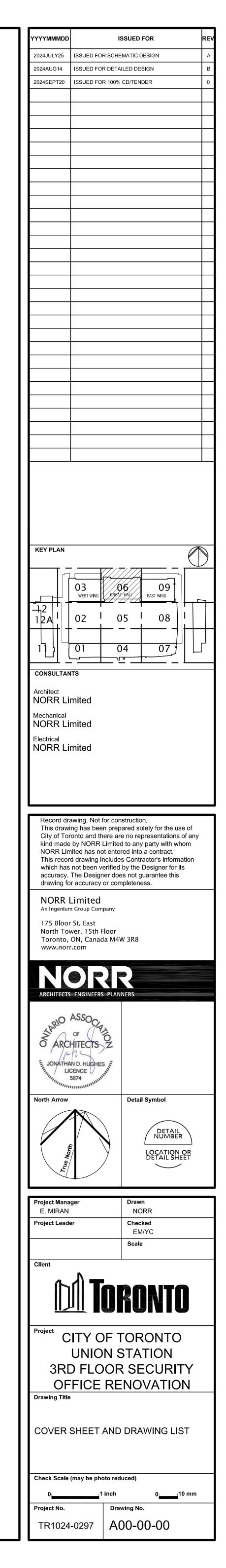
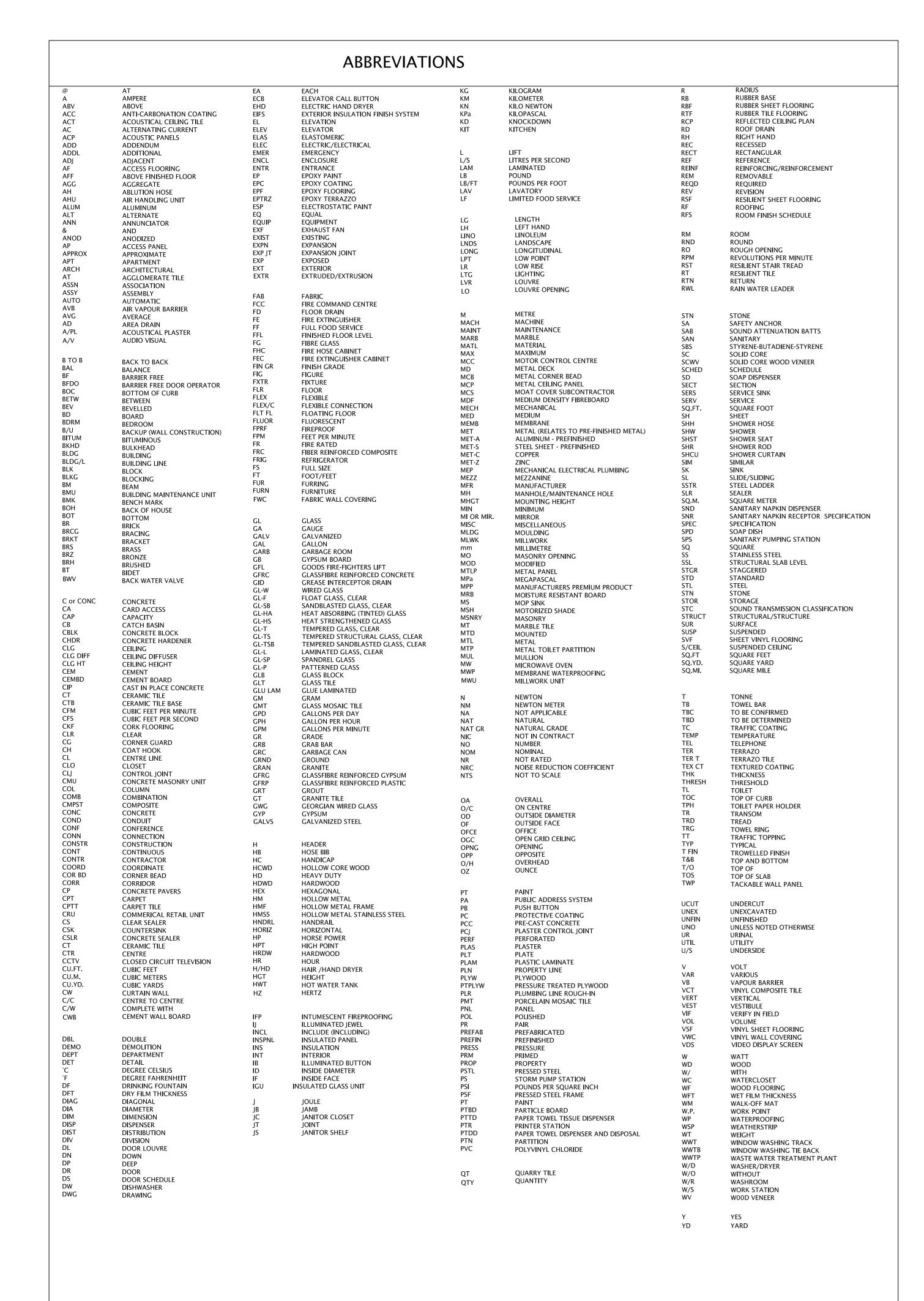
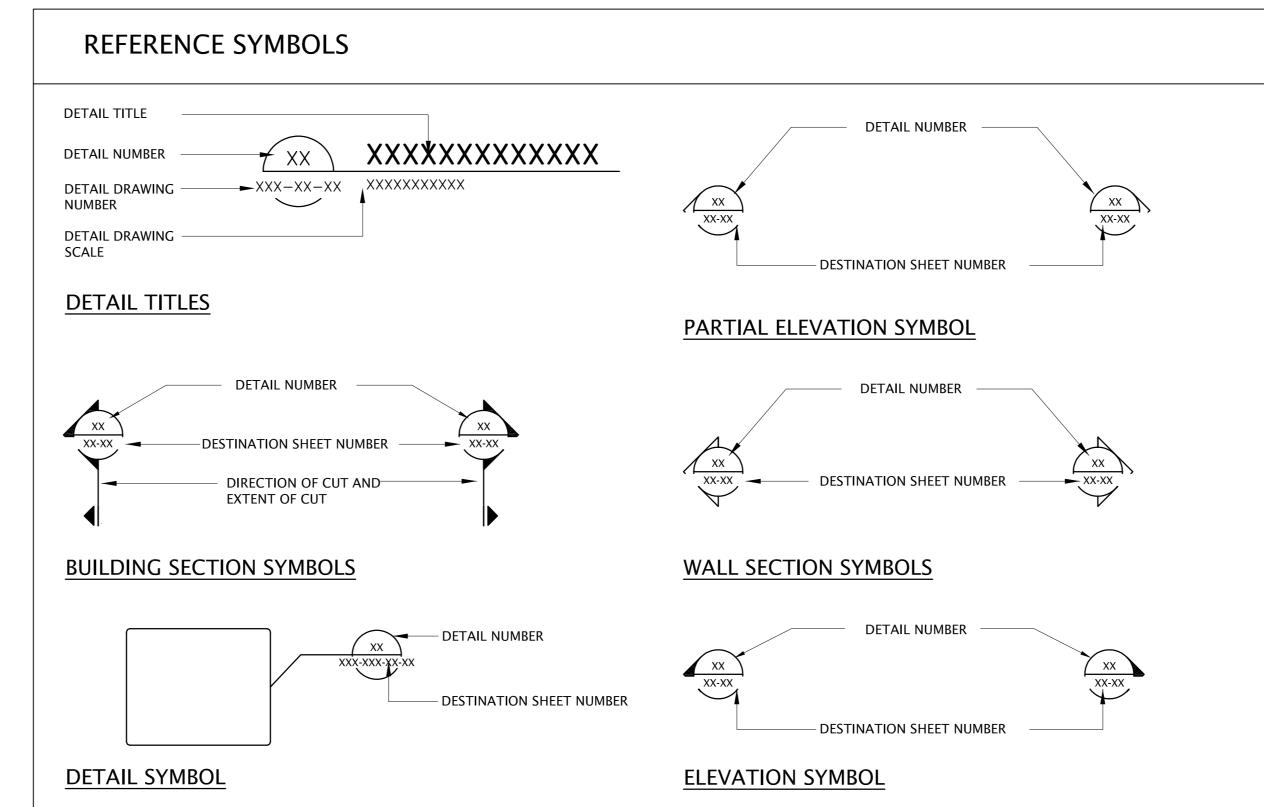
# CITY OF TORONTO UNION STATION 3RD FLOOR SECURITY OFFICE RENOVATION

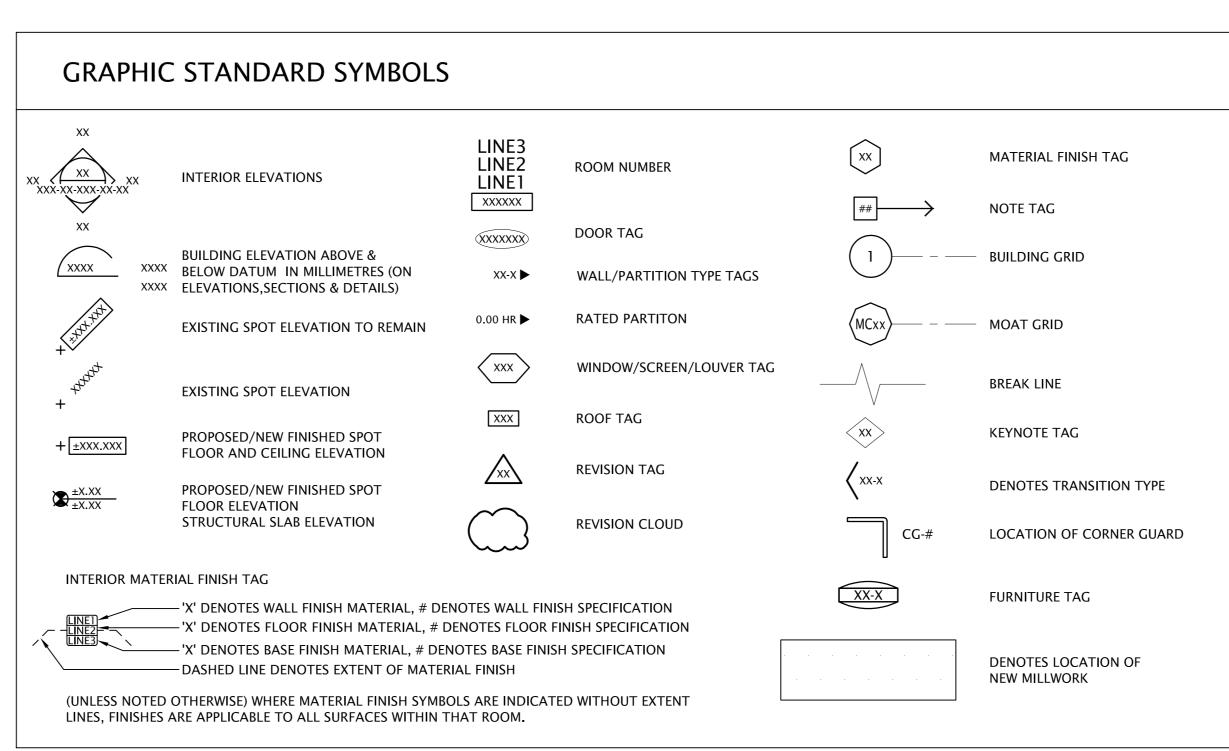
PROJECT NUMBER TR1024-0297

#	DRAWING NO.	DRAWING TITLE
		ARCHITECTURAL
X	A00-00-00	COVER SHEET AND DRAWING LIST
X	A00-00-01	ABBREVIATION, GENERAL NOTES, SYMBOLS LEGENDS
Χ	G00-00-01	DRAWING NUMBERING SYSTEM (ALL DISCIPLINES)
Χ	A20-03-06	THIRD FLOOR PLAN SECTOR PLAN
Χ	A40-03-06	THIRD FLOOR PLAN ENLARGED PLANS
Χ	A41-03-06	THIRD FLOOR PLAN ENLARGED PLANS
Χ	A60-03-06	THIRD FLOOR PLAN ENLARGED REFLECTED CEILING PLANS
Χ	A80-03-06	THIRD FLOOR PLAN ENLARGED PLANS DEMOLITION
		MECHANICAL
Χ	M00-03-06	MECHANICAL DRAWINGS LIST & LEGENDS
Χ	M01-03-06	MECHANICAL DETAILS & LEGENDS
Χ	M01-03-07	MECHANICAL DETAILS & LEGENDS
Χ	M01-03-08	MECHANICAL DETAILS
Χ	M21-03-06	THIRD FLOOR PLAN ENLARGED PLANS PLUMBING & DRAINAGE LAYOUT
X	M41-03-06	THIRD FLOOR PLAN ENLARGED PLANS FIRE PROTECTION LAYOUT
Χ	M51-03-06	THIRD FLOOR PLAN ENLARGED PLANS HVAC LAYOUT
		ELECTRICAL
Χ	E00-03-06	ELECTRICAL LEGEND AND DRAWING LIST
Χ	E10-03-06	THIRD FLOOR PLAN POWER & SYSTEMS LAYOUT NEW WORK
Χ	E20-03-06	THIRD FLOOR PLAN LIGHTING LAYOUT NEW WORK
Χ	E30-03-06	ELECTRICAL DETAILS
Χ	E50-03-06	THIRD FLOOR PLAN SECURITY LAYOUT NEW WORK
Χ	E80-03-06	THIRD FLOOR PLAN POWER LAYOUT DEMOLITION
Χ	E81-03-06	THIRD FLOOR PLAN LIGHTING LAYOUT DEMOLITION
Χ	E82-03-06	THIRD FLOOR PLAN SECURITY LAYOUT DEMOLITION





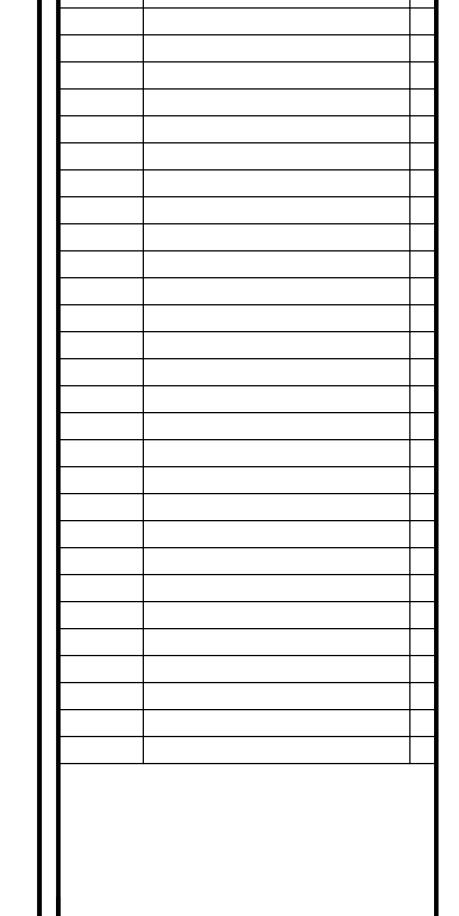




RE RATING SYMBOLS	DEMOLITION LEGEND		
5FRR — .5FRR — 0.5 HOUR FIRE RESISTANCE RATING	STAGE 1 SCOPE INCLUDING ALL EARLY PACKAGES EXISTING TO REMAIN		
-1FRR—1FRR—1FRR— 1.0 HOUR FIRE RESISTANCE RATING	======= EXISTING WALL TO BE DEMOLISHED		
2FRR—2FRR—2FRR—2.0 HOUR FIRE RESISTANCE RATING	EXISTING DOOR AND FRAME TO BE DEMOLISHED		
-3FRR—3FRR—3FRR— 3.0 HOUR FIRE RESISTANCE RATING	EXISTING DOOR AND FRAME TO REMAIN		
-4FRR—4FRR—4-4.0 HOUR FIRE RESISTANCE RATING	EXISTING DOOR AND HARDWARE  TO BE SALVAGED FOR RE-FURBISHING AND FRAME TO BE PROTECTED, FOR HERITAGE SCOPE REFER TO DOOR SCHEDULE		
	AREA OF HERITAGE PROTECTION,  REFER TO HERITAGE DOCUMENTS  ( H SERIES )		



- 1. DO NOT SCALE DRAWINGS, NOTED DIMENSIONS TAKE PRECEDENCE OVER SCALE. ALL DIMENSIONS TO BE CHECKED AND VERIFIED ON SITE. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT.
- 2. ALL DIMENSIONS ARE IN MILLIMETERS, TAKEN FROM CENTER LINE OF STRUCTURAL AND/OR FACE OF MASONRY. UNLESS OTHERWISE INDICATED.
- 3. IN CEILING SPACES, MECHANICAL AND ELECTRICAL TO COORDINATE W/ FINISH CEILING HEIGHTS, BEFORE INSTALLATION OF ANY MECHANICAL OR ELÉCTRICAL WORKS.
- 4. FIRE SEPARATION WALLS SHOULD GO TO THE U/S OF SLAB/ROOF. PROVIDE FIRE STOP/SMOKE SEAL.

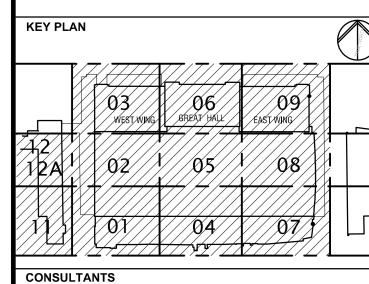


**ISSUED FOR** 

ISSUED FOR DETAILED DESIGN

2024SEPT20 ISSUED FOR 100% CD/TENDER

2024AUG14



NORR Limited

Mechanical

NORR Limited Electrical NORR Limited

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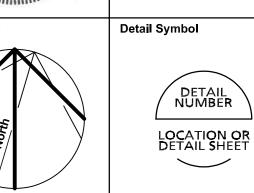
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North Tower, 15th Floor

drawing for accuracy or completeness.

Toronto, ON, Canada M4W 3R8 www.norr.com





M. MIRAN	NORR
Project Leader YC	Checked EM
	Scale NTS
Client	

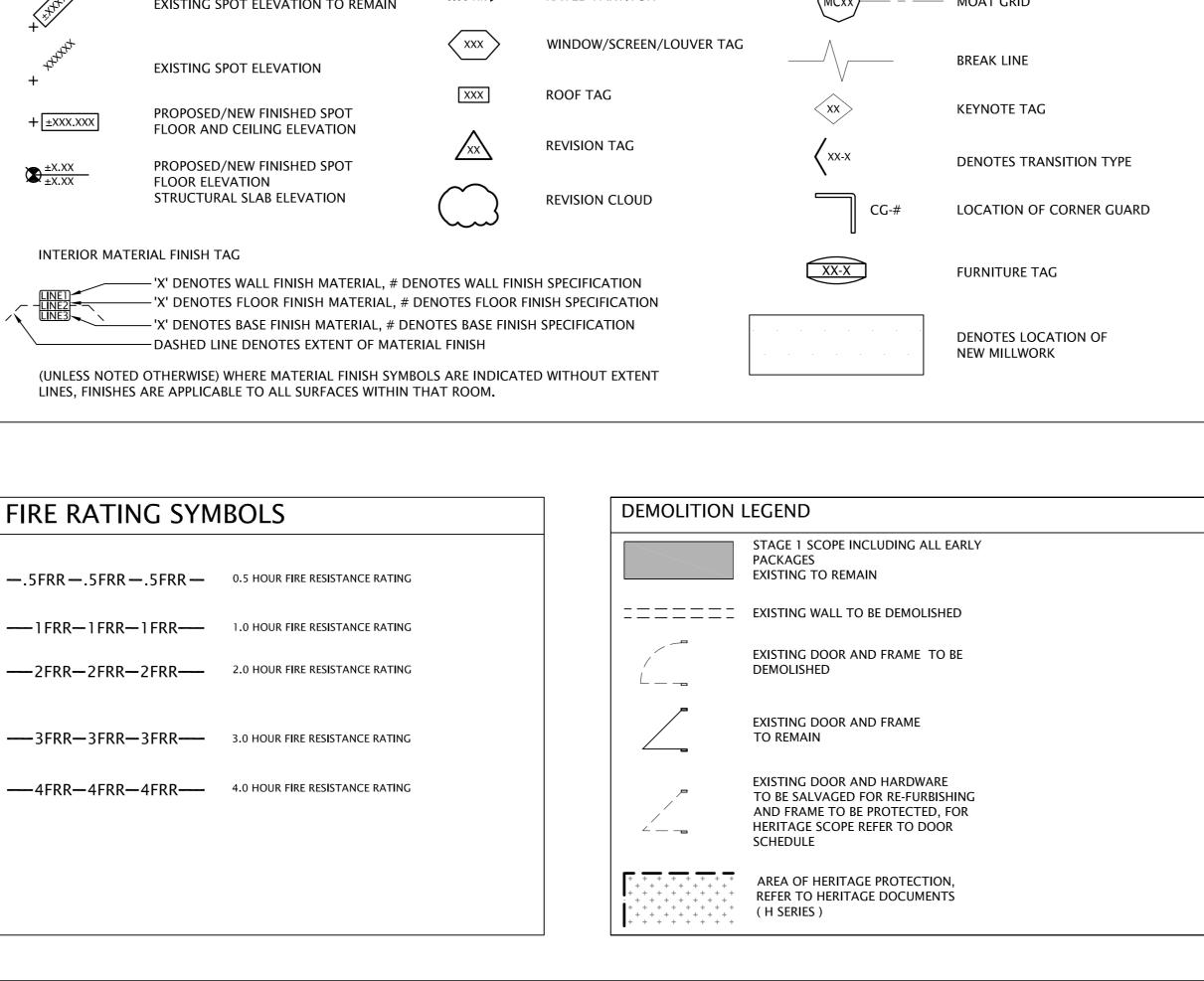


CITY OF TORONTO **UNION STATION** 3RD FLOOR SECURITY OFFICE RENOVATION

ABBREVIATION, GENERAL NOTES, SYMBOLS LEGENDS

Check Scale (may be photo reduced)

TR1024-0297 A00-00-01



1. 00 INDICATES AN OVERALL PLAN WITHIN A GROUP OR SERIES. 2. 01 ~ 99 INDICATES A SPECIFIC DRAWING WITHIN A GROUP OR SERIES.

EXAMPLE: ST1-A20-04-02					
ST1		A20	04		02
STAGE: STAGE 1 OF CONSTRUCTION	-	DISCIPLINE: ARCHITECTURAL SERIES: FLOOR PLANS	FLOOR LEVEL: LEVEL 04	-	FLOOR SECTOR: SECTOR 02

EXAMPLE: STF-A30-00-01					
STF		A30		00	01
STAGE: FINAL OR PROPOSED	-	DISCIPLINE: ARCHITECTURAL SERIES: OVERALL BUILDING ELEVATION	-	DEFAULT (WHENEVER FLOOR LEVEL IS NOT REQUIRED)	SEQUENCE: SHEET 01

DESIGNATION (A) STAGE				
ABBREVIATION	DESCRIPTION			
ST0	EXISTING			
STE	EARLY WORK			
ST1	STAGE 1 OF CONSTRUCTION			
ST2	STAGE 2 OF CONSTRUCTION			
ST3	STAGE 3 OF CONSTRUCTION			
ST2/3	INTEGRATED ST2/3			
STF	FINAL OR PROPOSED			
GEN	GENERAL (TYPICAL NOTES, LEGENDS, SYMBOLS, DETAILS, ETC.)			

DESIGNATION (B)

DISCIPLINE

CIVIL (SITE SERVICES, ROADS)

LANDSCAPING / AREA DEVELOPMENT

RESERVED (FIRE PROTECTION - PART OF

RESERVED (PLUMBING - PART OF MECHANICAL)

RESERVED

SURVEY / MAPPING

BAGGAGE HANDLING

ARCHITECTURAL

STRUCTURAL

MECHANICAL

MECHANICAL)

RESERVED

INTERIOR

HERITAGE

RESERVED

RESERVED

SECURITY

RESERVED

RESERVED

RESERVED

ACOUSTIC / AV

WASTE MANAGEMENT

KITCHEN - FOOD SERVICES

SPECIALITY LIGHTING - INTERIOR

SPECIALITY LIGHTING - EXTERIOR

CONTRACTOR / SHOP DRAWINGS

ELECTRICAL

**ABBREVIATION** 

M

DESCRIPTION

	DESIGN RIES: AF
A SERIES	
A00	GENERAL II
A10	SITE / SETT
A20	FLOOR PLA
A30	BUILDING E
A40	ENLARGED DETAILS / '
A50	CONSTRUC
A60	REFLECTED
A70	RESERVED
A80	DEMOLITIC
A90	INTERIOR E

DESIGNATIONS (C) SERIES: ARCHITECTURAL				
A SERIES	SERIES DESCRIPTION			
A00	GENERAL INFORMATION			
A10	SITE / SETTING OUT PLANS			
A20	FLOOR PLANS			
A30	BUILDING ELEVATIONS AND SECTIONS			
A40	ENLARGED PLANS / SECTIONS / ELEVATIONS / DETAILS / VERTICAL TRANSPORTATION			
A50	CONSTRUCTION DETAILING			
A60	REFLECTED CEILING PLANS / DETAILS			
A70	RESERVED			
A80	DEMOLITION			
A90	INTERIOR ELEVATIONS, FLOOR PATTERNS AND DETAILS			

DESIGNATION (C) SERIES: STRUCTURAL			
S SERIES	SERIES DESCRIPTION		
S00	GENERAL INFORMATION		
S10	RESERVED		
S20	FLOOR FRAMING PLANS		
S30	ELEVATIONS		
S40	RESERVED		
S50	SECTIONS AND DETAILS		
S60	SCHEDULES AND DETAILS		
S70	UNIQUE STRUCTURES		
\$80	DEMOLITION		
S90	RESERVED		

DESIGNATION (C) SERIES: MECHANICAL		
M SERIES	SERIES DESCRIPTION	
M00	GENERAL INFORMATION	
M10	SITE SERVICES	
M20	PLUMBING	
M30	DRAINAGE	
M40	FIRE PROTECTION	
M50	HVAC	
M60	MECHANICAL CONSOLIDATED PLANS	
M70	SCHEMATICS	
M80	DEMOLITION	
M90	RESERVED	

E SERIES	SERIES DESCRIPTION
E00	GENERAL INFORMATION
E10	POWER
E20	LIGHTING
E30	RESERVED
E40	RESERVED
E50	AUXILIARY SYSTEMS (SECURITY, ACCESS CONTROL, INTRUSION DETECTION, CCTV)
E60	GROUNDING AND LIGHTNING PROTECTION
E70	AUDIO / VISUAL
E80	DEMOLITION
E90	RESERVED

DESIGNATION (C)

DESIGNATION (D)	
FLOOR LEVEL	

ABBREVIATION	DESCRIPTION
В3	PROPOSED DIG DOWN, TUNNELS
B2	SUB-BASEMENT (RETAIL)
B1	LOWER LEVEL (PROMENADE)
00	GROUND FLOOR (GREAT HALL & CONCOURSE)
01	LEVEL 01 (TRACKS)
02	LEVEL 02
03	LEVEL 03
04	LEVEL 04
05	LEVEL 05
06	LEVEL 06
07	LEVEL 07
08	ROOF

1. FLOOR LEVEL CONTINUES AS A TWO-DIGIT NUMBER AS REQUIRED. 2. ROOF LEVEL BECOMES THE NEXT NUMBER AFTER THE LAST FLOOR 2024AUG14 ISSUED FOR DETAILED DESIGN 2024SEPT20 ISSUED FOR 100% CD/TENDER

CONSULTANTS Architect
NORR Limited

Mechanical NORR Limited

Electrical
NORR Limited

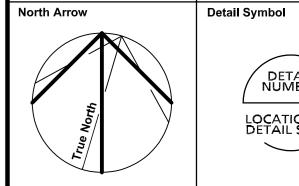
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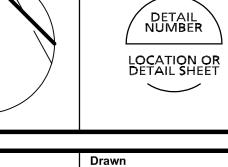
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E. MIRAN Project Leader

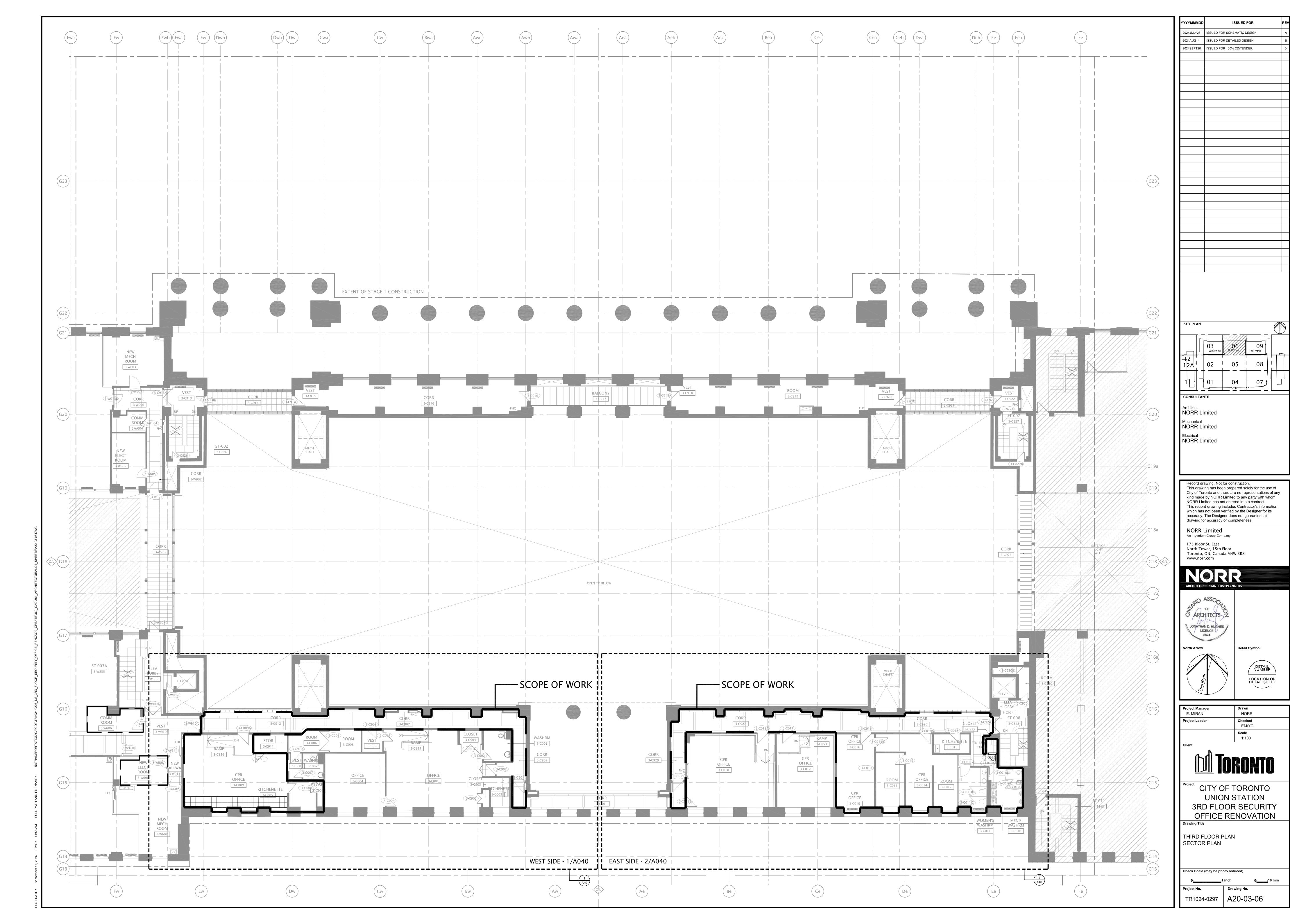


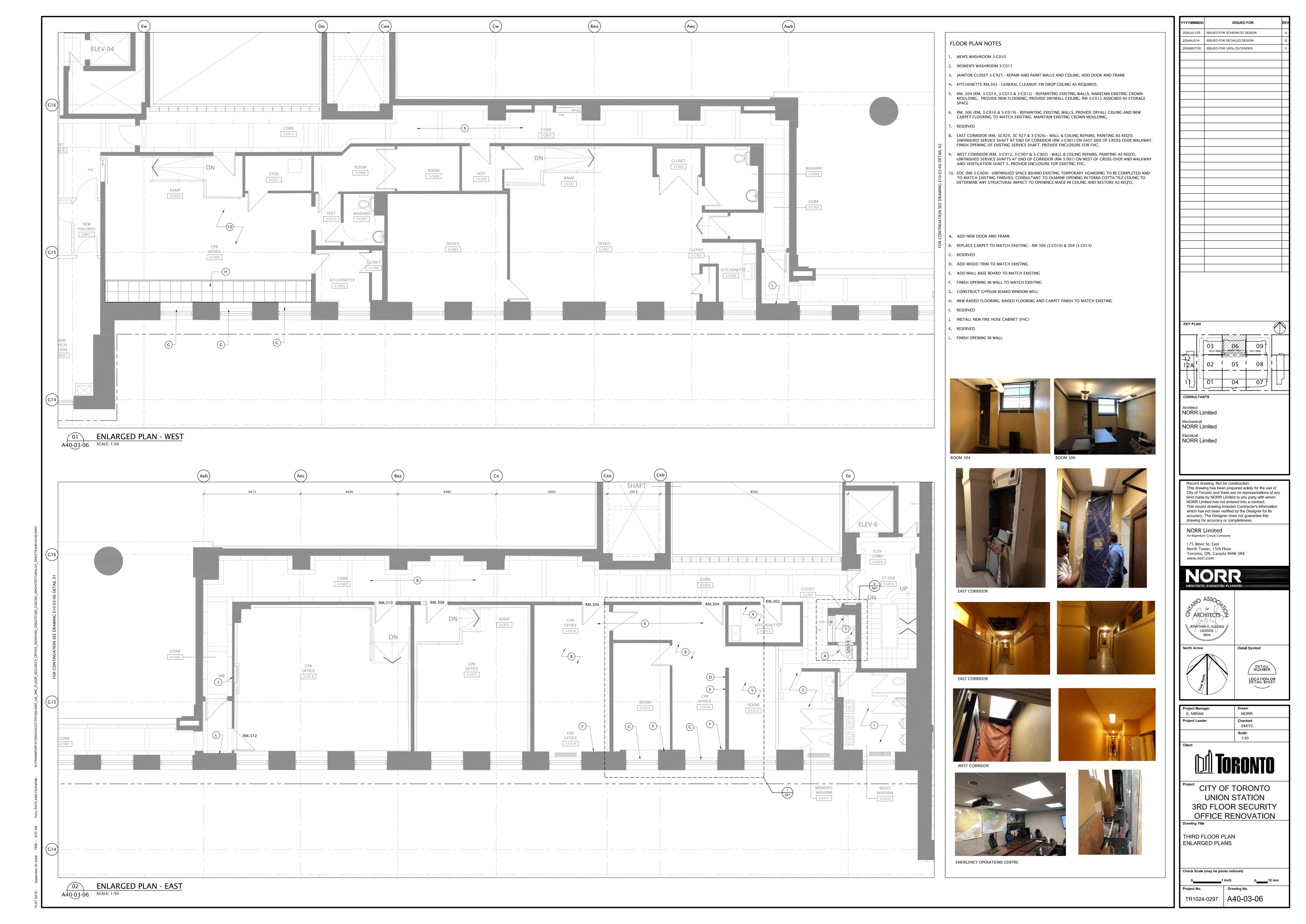
Project CITY OF TORONTO **UNION STATION** 3RD FLOOR SECURITY OFFICE RENOVATION

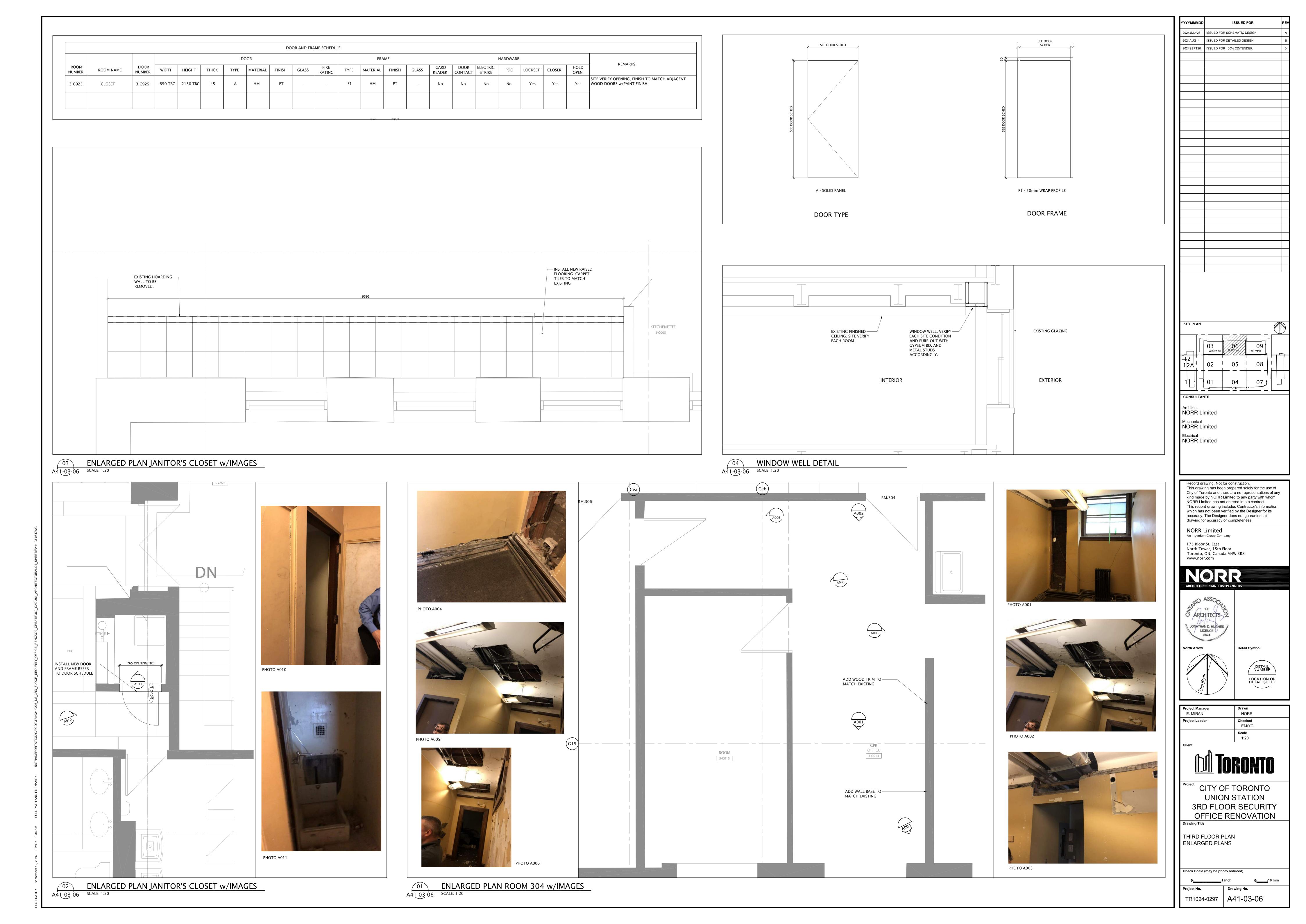
DRAWING NUMBERING SYSTEM (ALL DISCIPLINES)

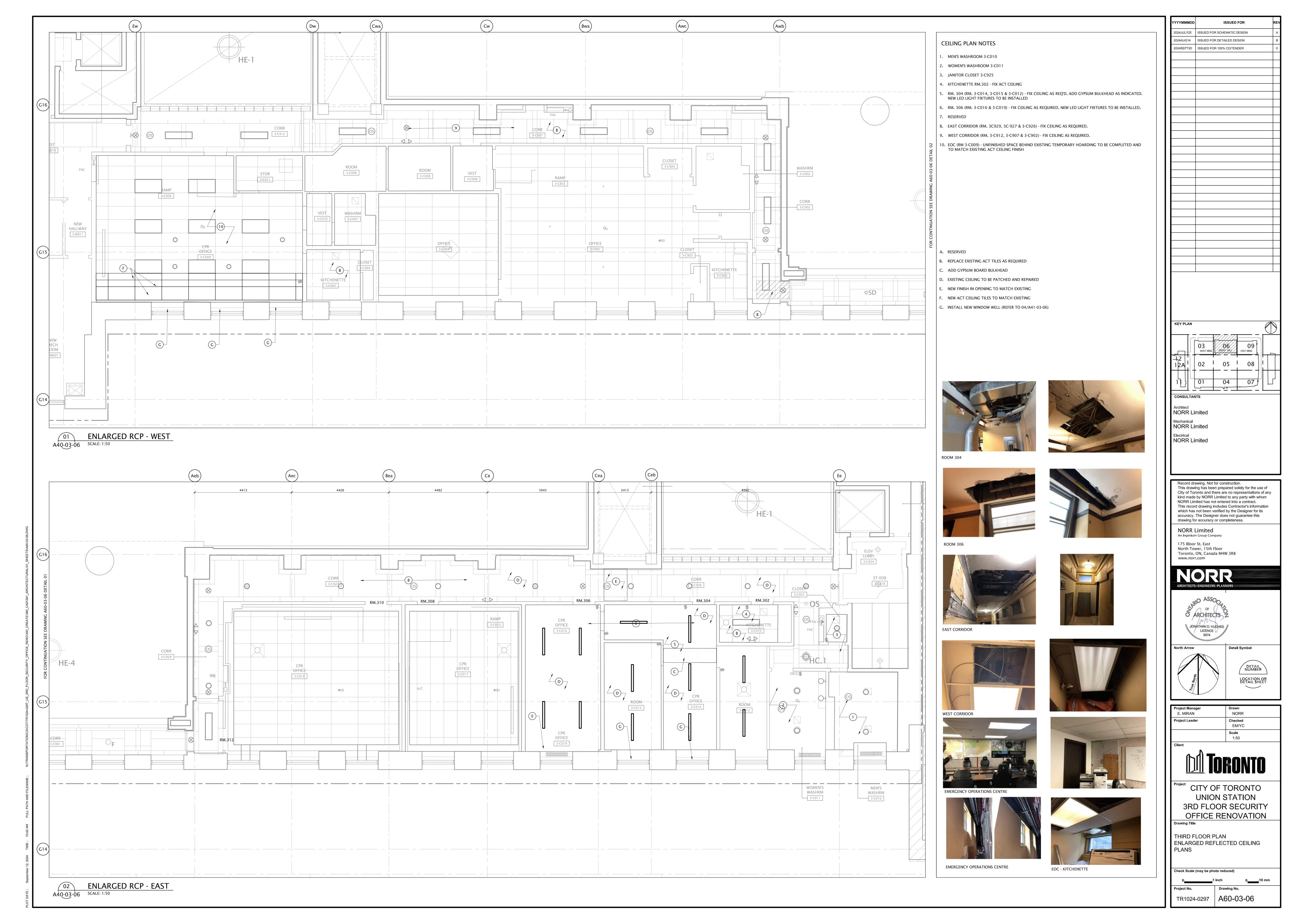
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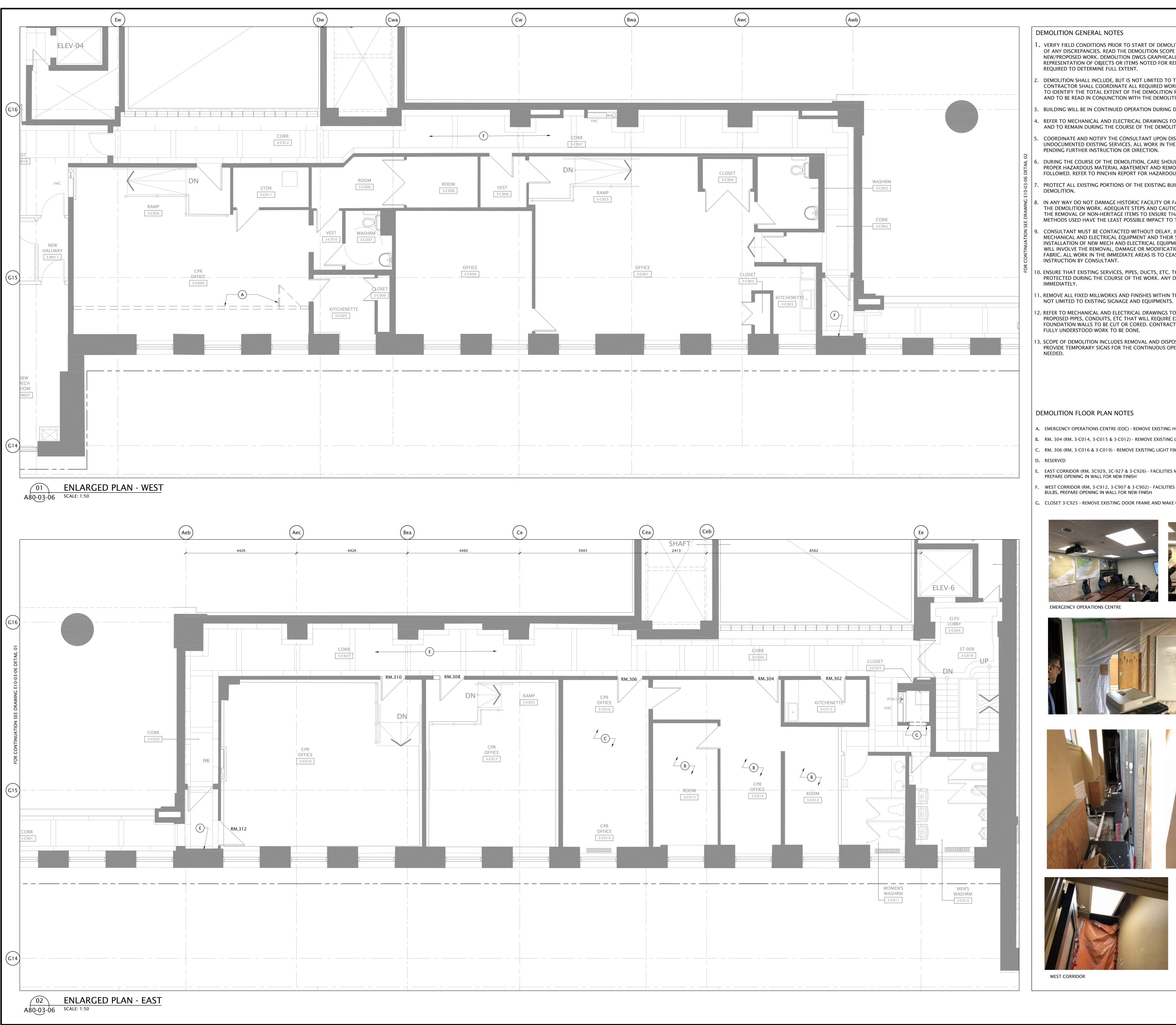
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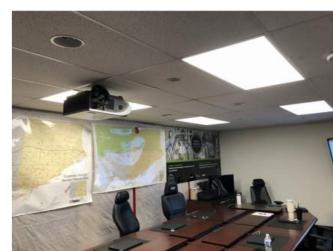


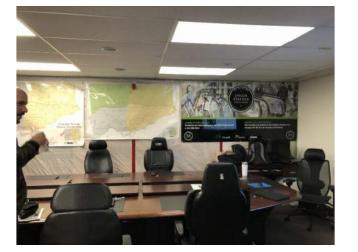
## DEMOLITION GENERAL NOTES

- . VERIFY FIELD CONDITIONS PRIOR TO START OF DEMOLITION AND NOTIFY THE CONSULTANT OF ANY DISCREPANCIES. READ THE DEMOLITION SCOPE IN RELATION TO THE EXTENT OF NEW/PROPOSED WORK. DEMOLITION DWGS GRAPHICALLY CONVEY A MINIMAL REPRESENTATION OF OBJECTS OR ITEMS NOTED FOR REMOVAL, FIELD VERIFICATION SHALL BE REQUIRED TO DETERMINE FULL EXTENT.
- DEMOLITION SHALL INCLUDE, BUT IS NOT LIMITED TO THE ITEMS IDENTIFIED. CONTRACTOR SHALL COORDINATE ALL REQUIRED WORKS WITH THE EXISTING BUILDING TO IDENTIFY THE TOTAL EXTENT OF THE DEMOLITION REQUIRED AND AS LISTED HERE-IN AND TO BE READ IN CONJUNCTION WITH THE DEMOLITION DRAWINGS.
- BUILDING WILL BE IN CONTINUED OPERATION DURING DEMOLITION.
- REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ITEM/S THAT ARE TO BE REMOVED AND TO REMAIN DURING THE COURSE OF THE DEMOLITION.
- COORDINATE AND NOTIFY THE CONSULTANT UPON DISCOVERY OF ANY UNDOCUMENTED EXISTING SERVICES. ALL WORK IN THE IMMEDIATE AREA IS TO CEASE PENDING FURTHER INSTRUCTION OR DIRECTION.
- DURING THE COURSE OF THE DEMOLITION, CARE SHOULD BE TAKEN TO ENSURE THAT PROPER HAZARDOUS MATERIAL ABATEMENT AND REMOVAL PROCEDURES ARE FOLLOWED. REFER TO PINCHIN REPORT FOR HAZARDOUS MATERIALS GUIDELINES.
- PROTECT ALL EXISTING PORTIONS OF THE EXISTING BUILDING TO REMAIN DURING
- IN ANY WAY DO NOT DAMAGE HISTORIC FACILITY OR FABRIC DURING THE COURSE OF THE DEMOLITION WORK. ADEQUATE STEPS AND CAUTION SHOULD BE TAKEN DURING THE REMOVAL OF NON-HERITAGE ITEMS TO ENSURE THAT THE PROCEDURES AND METHODS USED HAVE THE LEAST POSSIBLE IMPACT TO THE HERITAGE BUILDING FABRIC.
- CONSULTANT MUST BE CONTACTED WITHOUT DELAY, IF THE DEMOLITION OF EXISTING MECHANICAL AND ELECTRICAL EQUIPMENT AND THEIR SCOPE OF WORK OR THE INSTALLATION OF NEW MECH AND ELECTRICAL EQUIPMENT AND THEIR SCOPE OF WORK WILL INVOLVE THE REMOVAL, DAMAGE OR MODIFICATION OF ANY EXISTING HERITAGE FABRIC. ALL WORK IN THE IMMEDIATE AREAS IS TO CEASE PENDING FURTHER
- 10. ENSURE THAT EXISTING SERVICES, PIPES, DUCTS, ETC. THAT ARE TO REMAIN ARE PROPERLY PROTECTED DURING THE COURSE OF THE WORK. ANY DAMAGE INCURRED TO BE REPAIRED
- I. REMOVE ALL FIXED MILLWORKS AND FINISHES WITHIN THE DEMOLITION INCLUDING BUT
- 2. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS TO DETERMINE LOCATION OF PROPOSED PIPES, CONDUITS, ETC THAT WILL REQUIRE EXISTING SLAB, WALLS AND FOUNDATION WALLS TO BE CUT OR CORED. CONTRACTOR TO ASCERTAIN SCOPE AND FULLY UNDERSTOOD WORK TO BE DONE.
- 3. SCOPE OF DEMOLITION INCLUDES REMOVAL AND DISPOSAL OF EXISTING SIGNAGES. PROVIDE TEMPORARY SIGNS FOR THE CONTINUOUS OPERATION OF THE STATION AS

# DEMOLITION FLOOR PLAN NOTES

- A. EMERGENCY OPERATIONS CENTRE (EOC) REMOVE EXISTING HOARDING AND ACCESS DOOR
- B. RM. 304 (RM. 3-C014, 3-C015 & 3-C012) REMOVE EXISTING LIGHT FIXTURES (REFER TO ELECTRICAL)
- C. RM. 306 (RM. 3-C016 & 3-C019) REMOVE EXISTING LIGHT FIXTURES (REFER TO ELECTRICAL)
- EAST CORRIDOR (RM. 3C929, 3C-927 & 3-C926) FACILITIES MANAGEMENT TO REPLACE ALL LIGHT BULBS. PREPARE OPENING IN WALL FOR NEW FINISH
- WEST CORRIDOR (RM. 3-C912, 3-C907 & 3-C902) FACILITIES MANAGEMENT TO REPLACE ALL LIGHT BULBS. PREPARE OPENING IN WALL FOR NEW FINISH
- . CLOSET 3-C925 REMOVE EXISTING DOOR FRAME AND MAKE GOOD FOR NEW DOOR AND FRAME





**EMERGENCY OPERATIONS CENTRE** 











2024SEPT20 ISSUED FOR 100% CD/TENDER

**ISSUED FOR** 

2024JULY25 ISSUED FOR SCHEMATIC DESIGN

2024AUG14 ISSUED FOR DETAILED DESIGN

Y PLA	N			
	03 WEST WING	06 great hall	09 EAST WING	
2   T 2   L	02	05	08	
	01	04	07	
NSUL	TANTS			

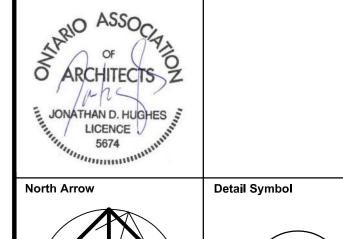
Mechanical NORR Limited Electrical NORR Limited

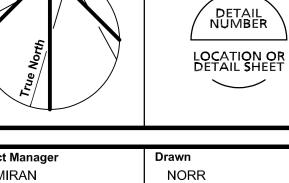
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	<b>Scale</b> 1:50
(h) <b>Ta</b> i	DANTA

**UNION STATION** 

OFFICE RENOVATION

DEMOLITION

Check Scale (may be photo reduced)		
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Project No.	Drawing No.	
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TR1024-0297 | A80-03-06

	RK SYMBOLS
SYMBOL	DESCRIPTION
	FLEXIBLE DUCT CONNECTION
- R	RISE IN DUCT
<b>D</b>	DROP IN DUCT
\\	ACOUSTICAL DUCT LINING
	DUCT SILENCER
	TURNING VANES
CAP	DUCT CAPPED CONNECTION
	OPEN ENDED DUCT WITH WIRE MESH SCREEN
\	FLEXIBLE PIPE/DUCT
	REHEAT COIL IN DUCT
	REMOVE EXISTING DUCT
	SUPPLY DUCT UP
	SUPPLY DUCT DOWN
	RETURN OR EXHAUST DUCT UP
	RETURN OR EXHAUST DUCT DOWN
BDD	BACKDRAFT DAMPER
FD	FIRE DAMPER
M	MOTORIZED CONTROL DAMPER
VD	VOLUME DAMPER
BD S	BALANCING DAMPER
<u> </u>	SUPPLY AIR LINEAR SLOT PLENUM AND DIFFUSER
	SUPPLY AIR DIFFUSERS
	RETURN OR EXHAUST AIR GRILLE OR REGISTER
R R	RELOCATED DIFFUSER, GRILLE
	REMOVE EXIST. GRILLE/DIFFUSER
T	THERMOSTAT OR TEMPERATURE SENSOR
T	THERMOSTAT ON INSULATED PAD

DUCTWO	RK SYMBOLS
TX	CONTROL TRANSFORMER AND LOW V WIRE
RT	RELOCATED THERMOSTAT OR SENSOR
	VAV BOX
	VAV BOX C/W SILENCER
	VAV BOX C/W RE-HEAT COIL AND SILENCER
	FAN POWERED BOX C/W SILENCER AND RETURN AIR ATTENUATOR
	VAV BYPASS
CV	CONSTANT VOLUME BOX
R	RELOCATED VAV BOX

PIPING LEGEND		
SYMBOL	DESCRIPTION	
CHWR	CHILLED WATER RETURN	
CHWS	CHILLED WATER SUPPLY	
CHW/GR	CHILLED WATER/GLYCOL RETURN	
——CHW/GS——	CHILLED WATER/GLYCOL SUPPLY	
CR	CONDENSER WATER RETURN	
CS	CONDENSER WATER SUPPLY	
DTR	DUAL TEMPERATURE RETURN	
——DTS——	DUAL TEMPERATURE SUPPLY	
GLR	GLYCOL RETURN	
GLS	GLYCOL SUPPLY	
HWR	HEATING WATER RETURN	
HWS	HEATING WATER SUPPLY	
HW/GR	GLYCOL HEATING WATER RETURN	
——HW/GS——	GLYCOL HEATING WATER SUPPLY	
HTHWR	HIGH TEMPERATURE HOT WATER RETURN	
——HTHWS——	HIGH TEMPERATURE HOT WATER SUPPLY	
HWR 40	40° C HEATING WATER RETURN	
——HWS 40——	40° C HEATING WATER SUPPLY	

SYMBOL	DESCRIPTION
A	MEDICAL AIR
co <sub>2</sub>	CARBON DIOXIDE
DI	DE-IONIZED WATER
LD	LABORATORY DRAIN
N ———	NITROGEN
NO	NITROUS OXIDE
O	OXYGEN
RO	REVERSE OSMOSIS WATER
	STEAM
C	CONDENSATE
PC	PUMPED CONDENSATE
S###	STEAM PRESSURE ###kPa
C###	CONDENSATE PRESSURE ###kPa
LPS———	LOW PRESSURE STEAM
HPS———	HIGH PRESSURE STEAM
RHG——	REFRIGERATION HOT GAS
RL	REFRIGERATION LIQUID
RS——	REFRIGERATION SUCTION
F	FIRE LINE
SD	SPRINKLER DRAIN
SP———	SPRINKLER MAIN
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	DOMESTIC HOT WATER RECIRCULATION
CA	COMPRESSED AIR
C/D	CONDENSATE DRAIN
DS——	DISTILLED WATER
G	NATURAL GAS
HV	HOUSE VACUUM
PD ———	PUMPED DRAIN

PIPING LEGEND

# MECHANICAL DRAWING LIST & LEGENDS

M00-03-06 MECHANICAL DRAWING LIST & LEGENDS M00-03-06 MECHANICAL DETAILS

M00-03-07 MECHANICAL DETAILS
M00-03-08 MECHANICAL DETAILS

M21-03-06 PLUMBING & DRAINAGE LAYOUT

M41-03-06 FIRE PROTECTION LAYOUT

M51-03-06 HVAC LAYOUT

SYMBOL	DESCRIPTION
	GATE VALVE
	BALL VALVE
	GLOBE VALVE
<b>/</b>	BUTTERFLY VALVE
	BUTTERFLY VALVE
	LOCKSHIELD VALVE
	PLUG VALVE
OR OR	2-WAY CONTROL VALVE
	CHECK VALVE
	PRESSURE REDUCING VALVE
	OS&Y VALVE
OR —	3-WAY CONTROL VALVE
CBV	CIRCUIT BALANCING VALVE
S	SOLENOID VALVE
	RELIEF VALVE
	FLOAT LEVEL CONTROL VALVE
AAV	AUTOMATIC AIR VENT
₩	VACUUM BREAKER
	VALVE ACTUATOR (PNEUMATIC OR ELECTRIC)
	ELECTRIC VALVE OR DAMPER ACTUATOR
	UNION
	CAPPED CONNECTION
	EXPANSION JOINT

2024JULY25 2024AUG16 2024SEP20	ISSUED FO	DR DESIGN SCH DR DESIGN REVI	IEW
2024SEP20	ISSUED FC	JK 100 % CD/TEI	NDEN
KEY PLAN			
	03 WEST WING	06 gbeat hall	09 EAST WING
12	02	05	08
12A	02	— — —	
11	01	04	07
CONSULTAN	TS		
Architect NORR Li	mitad		
Mechanical	IIILEU		
NORR Li	mited		
Electrical NORR Li	mited		
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VORR
CHITECTS ENGINEERS PLANNERS



orth Arrow

DETAIL NUMBER LOCATION OR DETAIL SHEET

NORR

Scale
1:50

Client

Project CITY OF TORONTO
UNION STATION
3RD FLOOR SECURITY

3RD FLOOR SECURITY
OFFICE RENOVATION

Drawing Title

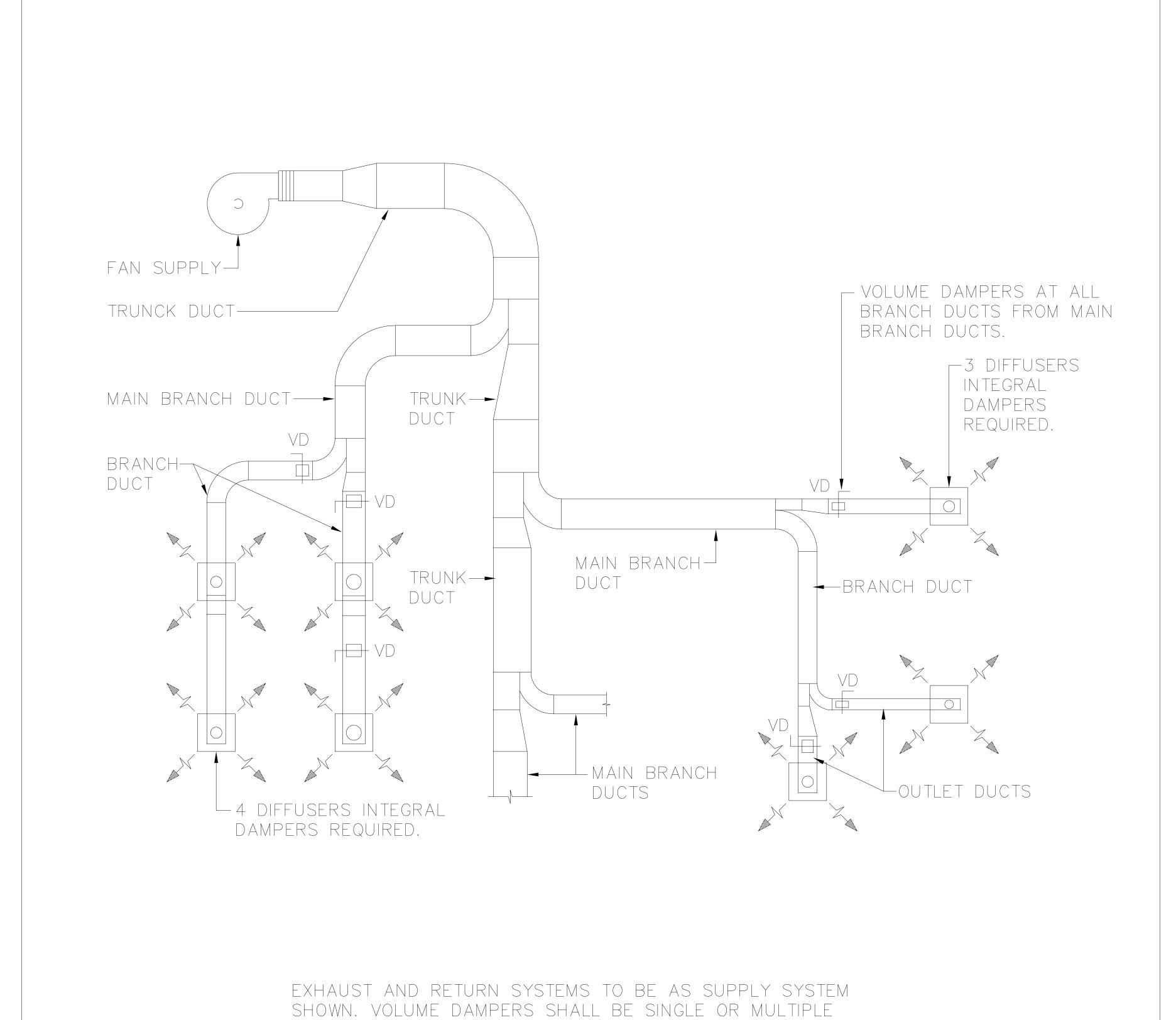
MECHANICAL DRAWING LIST & LEGENDS

Check Scale (may be photo reduced)

0 \_\_\_\_\_1 inch

Project No. Drawing No.

97 M00-03-06



DEFINITIONS: TRUNK DUCTS — ONE SERVING TWO OR MORE MAIN BRANCH DUCTS. MAIN BRANCH DUCTS — ONE SERVING TWO OR MORE BRANCH DUCTS. BRANCH DUCTS - ONE SERVING TWO OR MORE DIFFUSERS.

OPPOSED BLADE PER SMACNA CONTRUCTION STANDARDS.

Project CITY OF TORONTO **UNION STATION** 

3RD FLOOR SECURITY OFFICE RENOVATION

2024JULY25 ISSUED FOR DESIGN SCHEMATIC

KEY PLAN

CONSULTANTS

NORR Limited

Mechanical
NORR Limited

Electrical
NORR Limited

Record drawing. Not for construction.

NORR Limited
An Ingenium Group Company

North Tower, 15th Floor

2024.09.20

Toronto, ON, Canada M4W 3R8

175 Bloor St. East

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DETAIL NUMBER

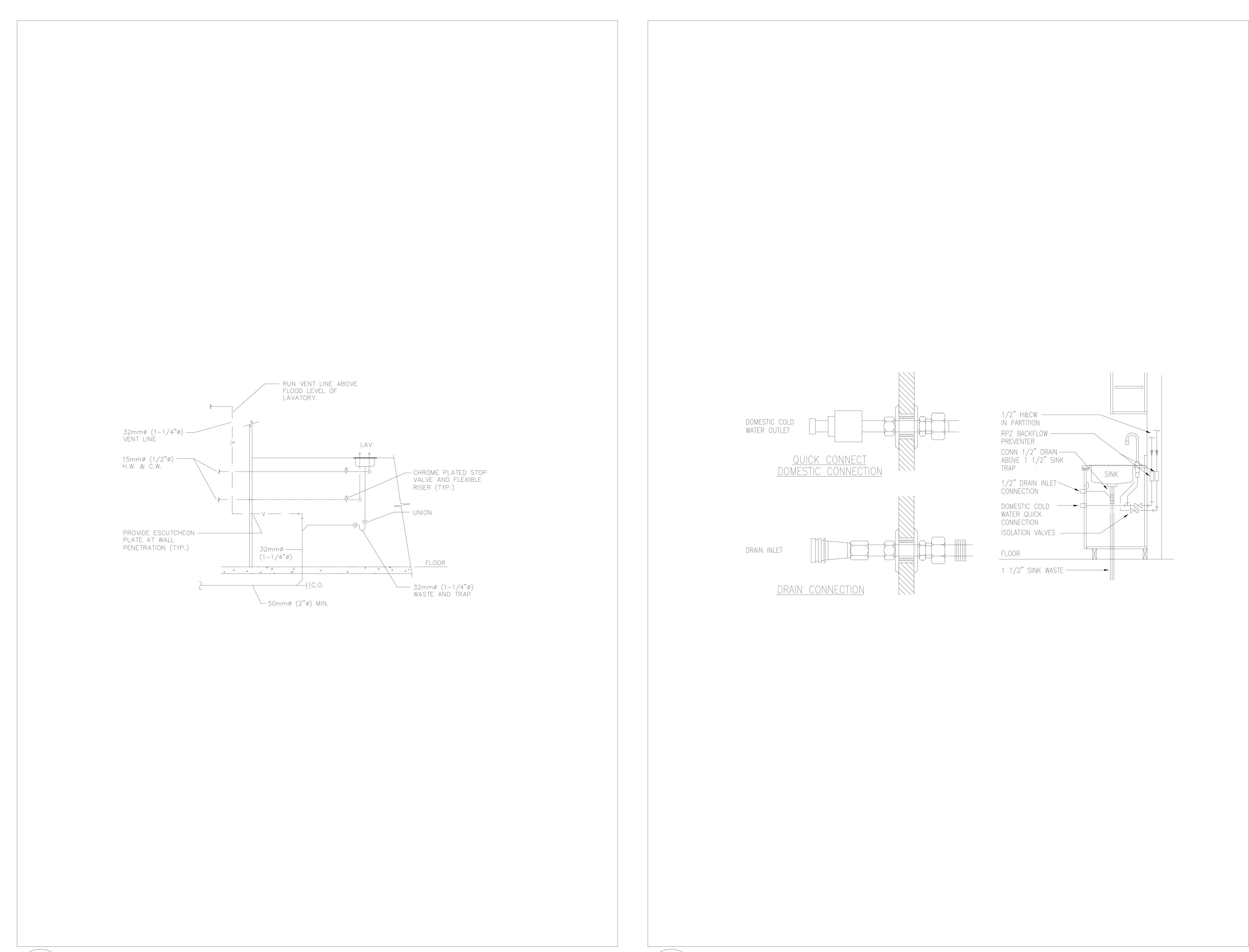
NORR

MECHANICAL DETAILS

M01-03-06

VOLUME CONTROL DAMPER MO1 SCALE: N.T.S.

INSTALLATION AND SUPPORTS FOR DUCTWORK SCALE: N.T.S.



2024JULY25 ISSUED FOR DESIGN SCHEMATIC 2024AUG16 ISSUED FOR DESIGN REVIEW 2024SEP20 ISSUED FOR 100% CD/TENDER 03 06 09
WEST WING GBEAT HALL EAST WING

12 05 08 CONSULTANTS NORR Limited Mechanical NORR Limited Electrical
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North Arrow

DETAIL NUMBER

NORR



Project CITY OF TORONTO **UNION STATION** 3RD FLOOR SECURITY OFFICE RENOVATION

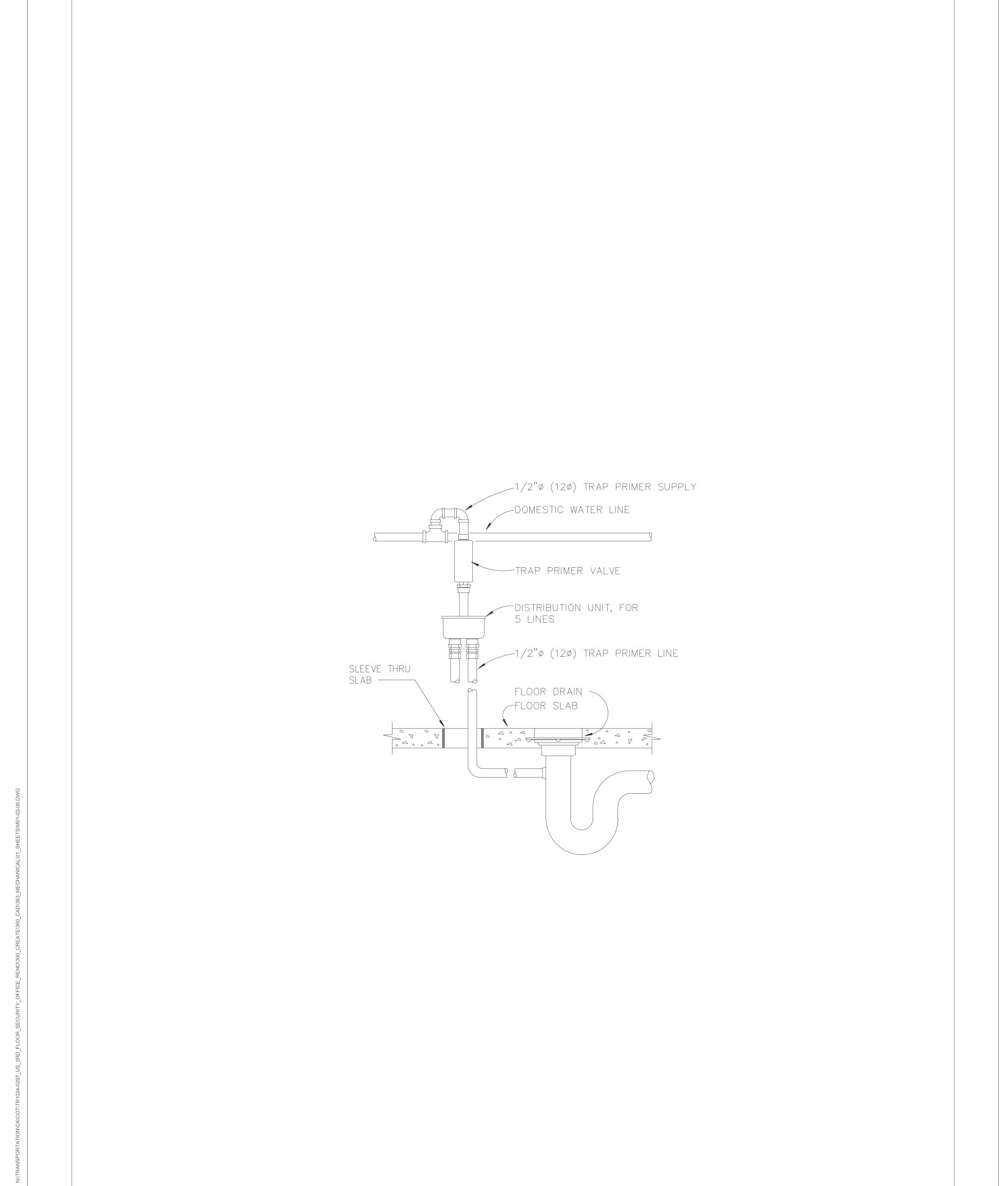
MECHANICAL DETAILS

Check Scale (may be photo reduced)

TR1024-0297 M01-03-07

LAVATORY PIPING CONNECTION DETAIL SCALE: N.T.S.

DOMESTIC COLD WATER AND DRAIN CONNECTIONS SCALE: N.T.S.



CONCRETE SURFACE OR FLOOR COVERING AS REQUIRED CLEANOUT COVER \_ CSK SCREW CLEANOUT PLUG / FINISHED FLOOR CAULKING FERRULE

UNION STATION 3RD FLOOR SECURITY OFFICE RENOVATION

TRAP SEAL PRIMER DETAIL SCALE: N.T.S.



SCALE: N.T.S.

CLEANOUT DETAIL

MECHANICAL DETAILS Check Scale (may be photo reduced)

Project CITY OF TORONTO

2024JULY25 ISSUED FOR DESIGN SCHEMATIC

2024AUG16 ISSUED FOR DESIGN REVIEW 2024SEP20 ISSUED FOR 100% CD/TENDER

**KEY PLAN** 

CONSULTANTS

NORR Limited

NORR Limited

NORR Limited

Record drawing. Not for construction.

drawing for accuracy or completeness.

Toronto, ON, Canada M4W 3R8

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Detail Symbol

NORR

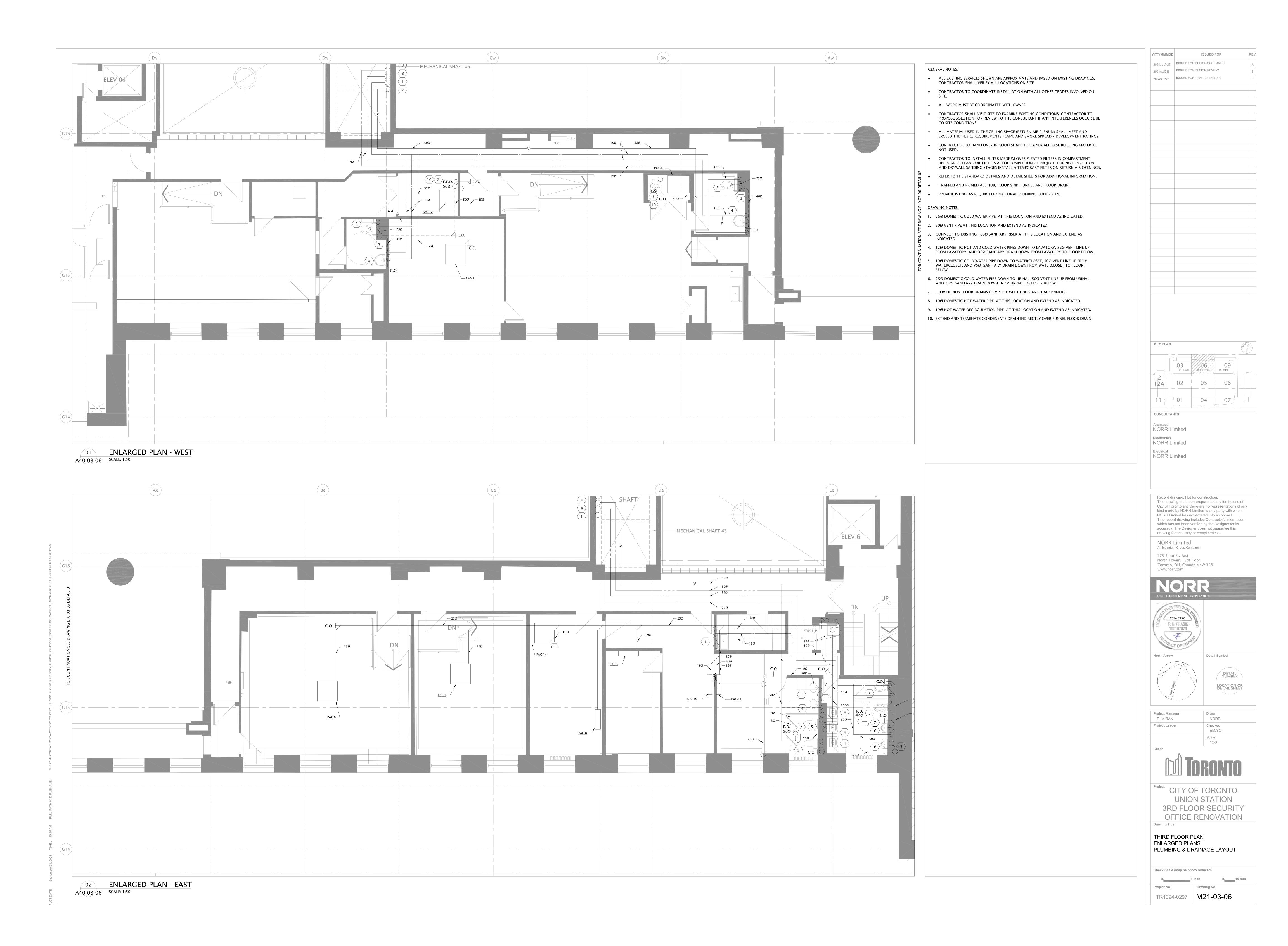
DETAIL NUMBER

Mechanical

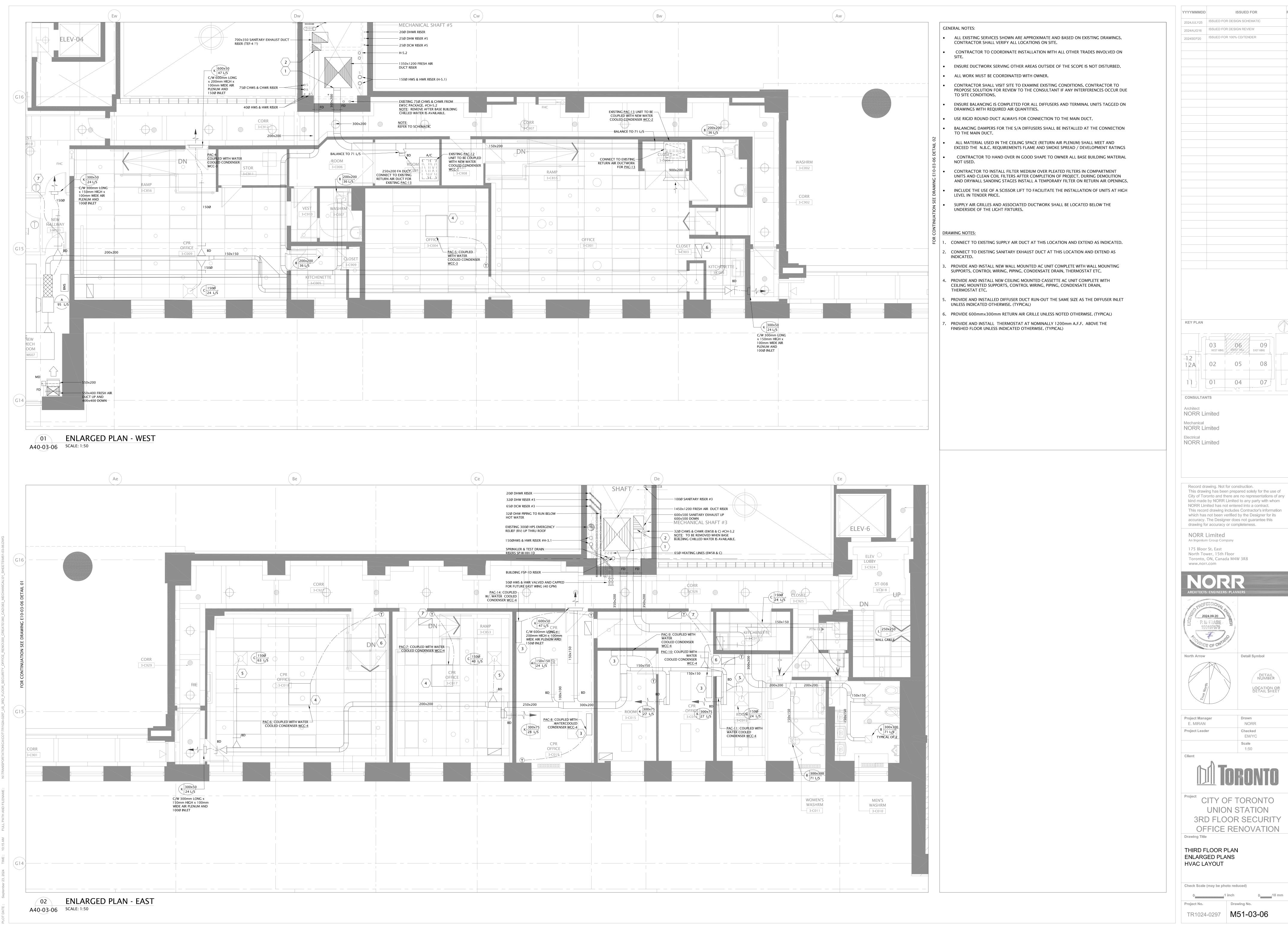
03 06 09
WEST WING GREAT HALL EAST WING

12 05 08

TR1024-0297 M01-03-08







SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	<u>GENERAL</u>		SWITCHES & CONTROLS		TELEVISION AND CCTV
1	DETAIL NUMBER  DETAIL SHEET	\$	SINGLE POLE LIGHT SWITCH MOUNTED		INDOOR CAMERA PTZ
EL006	DETAIL STILLT	\$\text{Lv} \$3	LOW VOLTAGE SWITCH		INDOOR CAMERA FIXED
N		+3 \$ <sub>D</sub>	3-WAY SWITCH  DIMMER SWITCH (D6-600 WATT DIMMER,	7	ACCESS CONTROL
	NORTH ARROW ARROW INDICATES PROJECT NORTH	\$ occ	D10-1000 WATT DIMMER ETC.) WALL MOUNTED OCCPANCY SENSOR WITH OVERRIDE	C R B	CARD READER
		→ occ (os)	SWITCH  OCCUPANCY SENSOR CEILING OR WALL MOUNTED.		B-BEEPER
	ARCHITECTURAL ROOM NUMBER				DOOR OPERATOR
	ARCHITECTURAL DOOR NUMBER		RECEPTACLES (15A, 1P UNLESS NOTED OTHERWISE)	D S	ELECTRIC DOOR STRIKE
	DETAIL SYMBOL ARROW	φ	DUPLEX RECEPTACLE	PX	PUSH TO EXIT PUSH BUTTON
	CONDUIT OR CABLE TURNING UP - EXISTING	∯ GFI	GROUND FAULT CIRCUIT INTERRUPTER DUPLEX RECEPTALCE	DC	DOOR CONTACT
	CONDUIT OR CABLE TURNING UP - NEW	φ	SINGLE RECEPTACLE-WALL MOUNTED.	E <sub>M</sub>	REQUEST TO EXIT MOTION DETECTOR
	CONDUIT OR CABLE TURNING DOWN - EXISTING	<del>**</del>	QUAD RECEPTACLE-WALL MOUNTED (SINGLE COVER PLATE)	1/c	INTERCOM SYSTEM
	CONDUIT OR CABLE TURNING DOWN - NEW	ф	DUPLEX RECEPTACLE CEILING MOUNTED.	● BF	BARRIER FREE DURESS PUSH BUTTON
EX	EXPLOSION PROOF		OUTLET CLUSTER A DENOTES TYPE	OwL	OCCUPIED WHEN LIT
WP	WEATHERPROOF	A	FLUSH FLOOR MOUNTED	•	DURESS PUSH BUTTON
V	VAPOUR TIGHT	ША	WALL MOUNTED	(AP)	WIRELESS ACCESS POINT
С	CONDUIT		DIRECT CONNECTION TO EQUIPMENT	IR	MOTION DETECTOR
EC	EMPTY CONDUIT		LIGHTING		
LAN	LOCAL AREA NETWORK	Ţ1	LUMINAIRE - CEILING OR PENDANT MOUNTED		
W	WALL MOUNTED	$\bigcirc$	T1 DENOTES LUMINAIRE TYPE		TELEPHONE AND COMMUNICATIONS
МВР	MANUAL BY-PASS SWITCH	∑ S1	LUMINAIRE - WALL MOUNTED S1 DENOTES LUMINAIRE TYPE	N	WALL SURFACE MOUNTED
TL	TWISTLOCK  DENOTES EXISTING FIXTURE/EQUIPMENT TO REMAIN	F1 	CEILING MOUNTED FLUORESCENT LUMINAIRE F1 DENOTES LUMINAIRE TYPE, 2-28 DENOTES LIGHTING PANELBOARD NO.2, CIRCUIT NO.28	N W	FURNITURE MOUNTED
E	UNCHANGED  DENOTES EXISTING FIXTURE/EQUIPMENT TO	2-28 [[]]]]]]	CEILING MOUNTED FLUORESCENT LUMINAIRE ON EMERGENCY CIRCUIT	N	FLOOR MOUNTED FLUSH WITH FINISHED FLOOR
ER ERP	BE RELOCATED  DENOTES EXISTING FIXTURE/EQUIPMENT IN	X2 ※	EXIT SIGN - CEILING MOUNTED		TELECOMMUNICATIONS OUTLET ASSEMBLY N-RECEPTACLE COUNT
R	RELOCATED POSITION  DENOTES EXISTING FIXTURE/EQUIPMENT TO BE REMOVED	X1	X2 DENOTES TYPE		E-ELEVATOR T-WALL MOUNTED TELEPHONE P-PAYPHONE
H H	HYDRO POLE	$\bigotimes_{X2}$	EXIT SIGN - WALL MOUNTED X1 DENOTES TYPE		W-WIRELESS ACCESS POINT D-DATA
	CONDUIT STUB-UP 50mm DENOTES CONDUIT SIZE)	$\bigotimes_{-}$	EXIT SIGN - CEILING MOUNTED ARROW DENOTES DIRECTION		V-VOICE O-BLANK PLATE CC-CCTV CONTROLLER
50mm		$\triangleleft$	DOUBLE REMOTE EMERGENCY LIGHTING HEADS	===	TELECOMMUNICATION EQUIPMENT RACK
	POWER AND CONTROL	1	EMERGENCY BATTERY UNIT WITH 2 INTEGRAL HEADS, HARD WIRED		DENOTES 50mm ZONE CONDUIT BACK TO TELECOM ROOM
PP1	POWER AND/OR DISTRIBUTION PANELBOARD - SURFACE MOUNTED				
	PP - DENOTES POWER PANEL DP - DENOTES DISTRIBUTION PANEL		FIRE ALARM		
	RP - DENOTES RECEPTACLE PANEL LP - DENOTES LIGHTING PANEL LCP - DENOTES LIGHTING CONTROL PANEL	FS	FLOW SWITCH		
	POWER AND/OR DISTRIBUTION PANELBOARD - RECESSED	Ŷ	ALARM OR SUPERVISED VALVE		
	EMERGENCY POWER PANELBOARD SURFACE MOUNTED	(F/S)	FIRE ALARM SPEAKER/STROBE (CILING MOUNTED)		
	EMERGENCY POWER PANELBOARD RECESSED MOUNTED				
	DISCONNECT SWITCH - NON-FUSIBLE	(F/S)	FIRE ALARM SPEAKER/STROBE (WALL MOUNTED)		
타	FUSED DISCONNECT SWITCH	F	FIRE ALARM MANUAL PULL STATION		
ТХ	TRANSFORMER	NA.	ACTIVE FIELD DEVICE -		
	JUNCTION BOX CEILING MOUNTED ('F' DENOTES FLOOR MOUNTED, 'A' DENOTES UNDER ACCESS FLOOR,	⟨ <b>M</b> ⟩ ⟨ <b>c</b> ⟩	MONITOR MODULE  ACTIVE FIELD DEVICE -		
	'W' DENOTES WALL MOUNTED, 'C' CEILING MOUNTED)	R	CONTROL MODULE  FIRE ALARM RELAY		
P	PULL BOX	DH)	MAGNETIC DOOR HOLDER DEVICE		
	BASEBOARD HEATING UNIT C/W BUILT IN THERMOSTAT	\$ \$	SMOKE DETECTOR		
		<b>~</b>			
SYMBOLS AND I	LEGEND AS APPLICABLE	SYMBOLS AND I	LEGEND AS APPLICABLE		SYMBOLS AND LEGEND AS APPLICABLE

## **GENERAL NOTES:**

SHALL BE MADE WITHOUT ADDITIONAL CHARGE.

- 1. ELECTRICAL DRAWINGS ARE PERFORMANCE DRAWINGS AND INDICATE THE GENERAL ARRANGEMENT OF WORK. THEY ARE DIAGRAMMATIC AND DO NOT SHOW ALL STRUCTURAL AND CONSTRUCTION DETAILS. ANY INFORMATION INVOLVING ACCURATE MEASUREMENTS SHALL BE VERIFIED ON SITE. ALL NECESSARY ADJUSTMENTS, CHANGES AND ADDITIONS TO CARRY THE DESIGN INTENT
- 2. THESE DRAWINGS AND SPECIFICATIONS TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND OTHER DIVISIONS DRAWINGS. ALL ELECTRICAL WORK SHALL COMPLY WITH OWNER'S REQUIREMENTS AND BASE BUILDINGS STANDARDS.
- 3. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL THE ROUGH-INS REQUIRED FOR MECHANICAL SCOPE OF WORK INCLUDING CONDUITS, BACK BOXES, JUNCTION BOXES, PULL WIRES, ETC. ELECTRICAL CONTRACTOR SHALL REFER TO MECHANICAL DRAWINGS AND SPECS FOR MORE INFORMATION AND SHALL INCLUDE ALL COSTS ASSOCIATED RELATED TO THE ROUGH INS IN THE TENDER PRICE.
- 4. VISIT AND EXAMINE THE SITE, BECOME FAMILIAR WITH EXISTING CONDITIONS. REQUESTS FOR EXTRAS WILL NOT BE CONSIDERED FOR FAILURE TO PROPERLY EVALUATE CONDITIONS THAT AFFECT THE SCOPE OF WORK. 5. ALL ELECTRICAL WORK SHALL COMPLY WITH OWNER REQUIREMENTS AND BASE BUILDING STANDARDS.
- 6. "AS REQUIRED, MAKE OPERATIONAL" DENOTES ELECTRICAL INSTALLATION TO SUIT SITE CONDITIONS, TO CONFORM WITH THE REQUIREMENTS OF ALL APPLICABLE CODES AND INSTALLATION TO INCLUDE ALL NECESSARY MATERIAL, EQUIPMENT AND LABOR (ALTHOUGH NOT SHOWN ON THE DRAWINGS) TO MAKE IT OPERATIONAL. NO ALLOWANCES WILL BE MADE SUBSEQUENTLY FOR ANY
- 7. UNLESS NOTED OTHERWISE ALL WIRING AND CONDUITS TO BE CONCEALED, INSTALL WIRING IN RACEWAYS, MINIMUM RACEWAY TRADE SIZE 21, MINIMUM POWER WIRE SIZE #12 AWG.
- 8. LOCATION AND NUMBER OF EXISTING EQUIPMENT, DEVICES, OUTLETS, LIGHTING FIXTURES, SWITCHES, ETC. IS APPROXIMATE, TO BE CONFIRMED ON SITE.
- 9. ENSURE EXISTING SERVICES REMAIN UNDISTURBED AND ENERGIZED IN AREAS NOT AFFECTED BY THE WORK STAGE EXCEPT WHERE INDICATED OTHERWISE. OBTAIN OWNER'S WRITTEN APPROVAL BEFORE INTERRUPTING ANY SERVICE. PROVIDE TEMPORARY SERVICES TO
- MAINTAIN CONTINUITY IN THE EVENT THAT SERVICES MUST BE INTERRUPTED. 10. DO NOT INSTALL OUTLETS BACK TO BACK, STAGGER TO PREVENT SOUND TRANSFER.
- 11. WHEN ELECTRICAL EQUIPMENT (LIGHTING, POWER AND SYSTEMS) SHOWN TO BE REMOVED OR RELOCATED, BLANK-OFF EXISTING JUNCTION BOX, CUT BACK EXISTING UNUSED CONDUIT AND WIRING, MAKE SAFE. REMOVED UNUSED ELECTRICAL EQUIPMENT TO BE TURNED BACK TO THE LANDLORD.
- 12. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY DISRUPTION TO THE EXISTING SERVICES. THE EXISTING BUILDING SERVICES MUST BE KEPT IN OPERATION AT ALL TIMES. ARRANGE WORK IN SUCH A MANNER THAT INTERRUPTION OF SERVICES SHALL OCCUR ONLY AT SCHEDULED TIMES. ALL SERVICE INTERRUPTIONS SHALL BE SCHEDULED WITH ARCHITECT / DESIGN CONSULTANT AT LEAST 48 HOURS IN ADVANCE. OVERTIME WORK THAT MAY BE REQUIRED TO TIE-IN TO EXISTING SERVICES AT NIGHT OR ON WEEKENDS SHALL BE INCLUDED IN THE TENDER PRICE.
- 13. IN RENOVATED SPACE REMOVE ALL EXISTING UNUSED POWER AND VOICE/DATA SYSTEMS CABLES INSTALLED IN EXISTING SLAB AND WALL CONDUITS, UNDER FLOOR DUCTS, CEILING SPACE AND/OR EXISTING VOICE/DATA SYSTEMS CONDUITS.
- 14. AT EXISTING PANELS UPDATE EXISTING DIRECTORY CARD, CLEAN PANEL INTERIOR, TIGHTEN ALL CABLE CONNECTORS AND EXISTING BREAKERS, REPLACE ALL EXISTING BREAKERS WHICH ARE UNSAFE FOR REUSE OR NOT IN PROPER WORKING CONDITION WITH NEW BREAKERS (TYPE TO MATCH EXISTING). REMOVE ALL UNUSED WIRING FROM THE PANELS, MARK UNUSED BREAKERS "SPARE" ON THE DIRECTORY CARD.
- 15. COORDINATE ALL DIRECT CONNECTIONS TO MECHANICAL UNITS WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION. ENSURE ALL REQUIRED CONTROLS, TIE-INS, ETC. ARE CAPTURED TO ENSURE A COMPLETE AND FUNCTIONING SYSTEM.
- 16. WIRE SIZE SHOWN IS FOR REFERENCE ONLY. ALL WIRES AND CABLES TO BE SIZED FOR MAXIMUM 3% VOLTAGE DROP AT 80% LOAD AND 90% POWER FACTOR.
- 17. ALL CEILING DEVICES SHALL AVOID STRUCTURAL BEAMS AND MECHANICAL DUCTWORK, COORDINATE ON SITE PRIOR TO INSTALLATION.
- 18. PROVIDE ELECTRICAL METALLIC TUBING (EMT) FOR ALL NEW WIRING INCLUDING POWER, DATA, CONTROL AND OTHERS UNLESS OTHERWISE NOTED.
- 19. GRAYED OUT ITEMS ARE NOT IN SCOPE AND SHOWN FOR REFERENCE PURPOSE ONLY. ONLY BOLDED ITEMS SHOULD BE INCLUDED. 20. ENGAGE BASE BUILDING SECURITY CONTRACTOR FOR ALL SECURITY RELATED WORK.

DRAWING NO.	DRAWING TITLE
E00-03-06	ELECTRICAL LEGEND AND DRAWING LIST
E10-03-06	THIRD FLOOR PLAN; POWER & SYSTEMS LAYOUT; NEW WORK
E20-03-06	THIRD FLOOR PLAN; LIGHTING LAYOUT; NEW WORK
E30-03-06	ELECTRICAL DETAILS
E50-03-06	THIRD FLOOR PLAN; SECURITY LAYOUT; NEW WORK
E80-03-06	THIRD FLOOR PLAN; POWER & SYSTEMS LAYOUT; DEMOLITION
E81-03-06	THIRD FLOOR PLAN; LIGHTING LAYOUT; DEMOLITION
E82-03-06	THIRD FLOOR PLAN; SECURITY LAYOUT; DEMOLITION

LUMINARIES SCHEDULE						
TYPE	LAMP	VOLTS	LUMEN	COLOR TEMPERATURE	DESCRIPTION	MANUFACTURER
A	LED	120	5024	3500K	CORELITE CONTINUA SQ4 - SURFACE MOUNTED, 4' LENGTH , WHITE FINISH SQ4-F-0U-125D-835-1D-UNV-STD-W-4	COOPER LIGHTING
X1	LED	120	-	-	SURFACE MOUNTED, GREEN RUNNING MAN EXIT SIGN - SELF POWERED FOR 120 MINUTES.	BELUCE LIGHTING

YYYYMMMDD	ISSUED FOR	RE\
2024JULY25	ISSUED FOR SCHEMATIC DESIGN	А
2024AUG14	ISSUED FOR DETAILED DESIGN	В
2024SEPT20	ISSUED FOR 100% CD/TENDER	0

Y PLA	N 			
	03 WEST WING	<b>06</b>	09 EAST WING	
2 2A	02	05	08	
	01	04	07	
NGIII.	TANTS			

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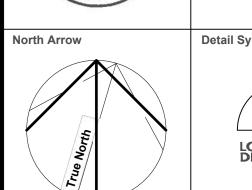
**NORR Limited** 

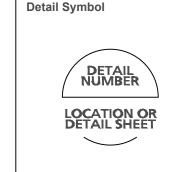
Toronto, ON, Canada M4W 3R8



E. MIRAN

Project Leader





M. KUTA

M. AHMAD S. STOOPS

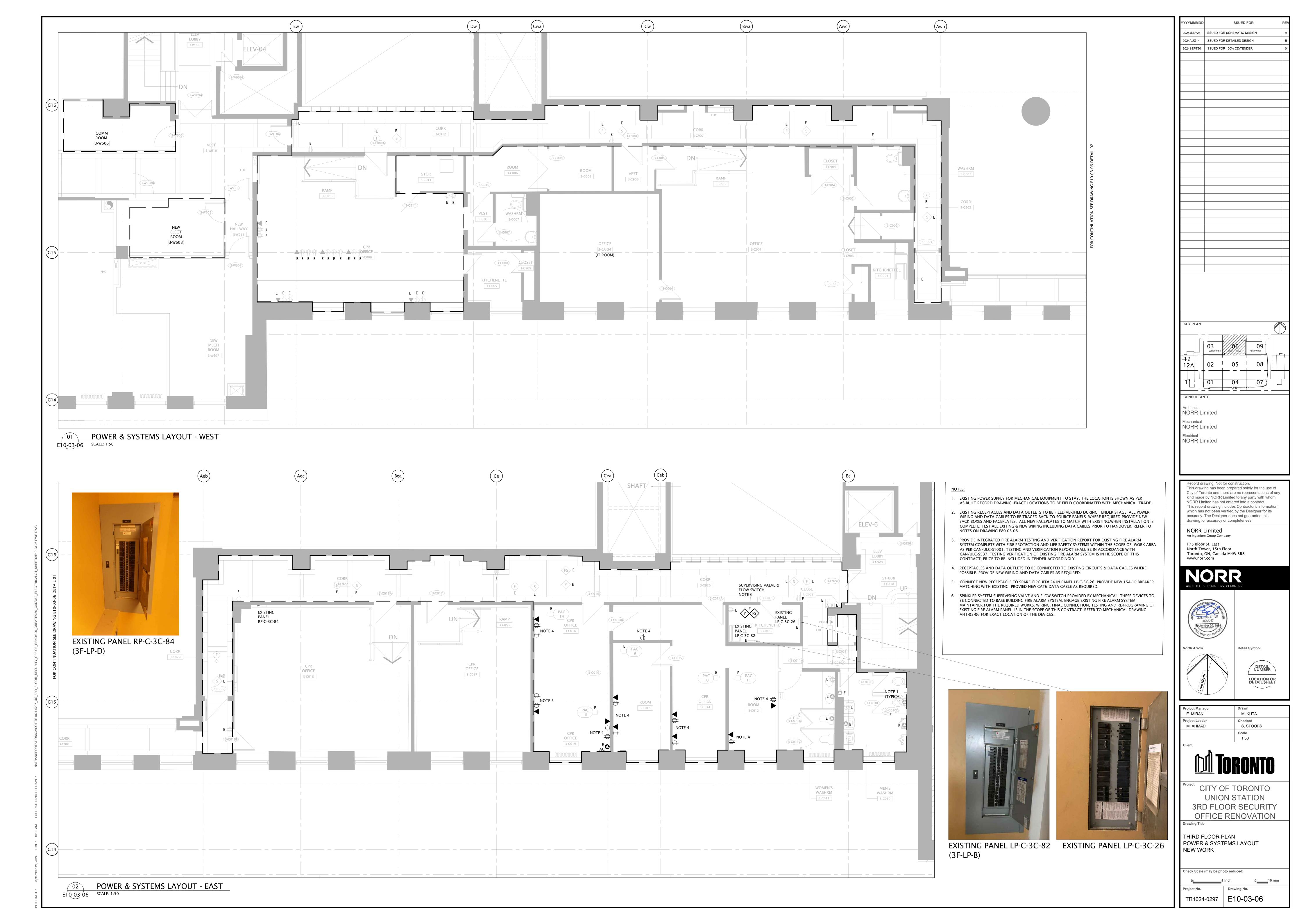


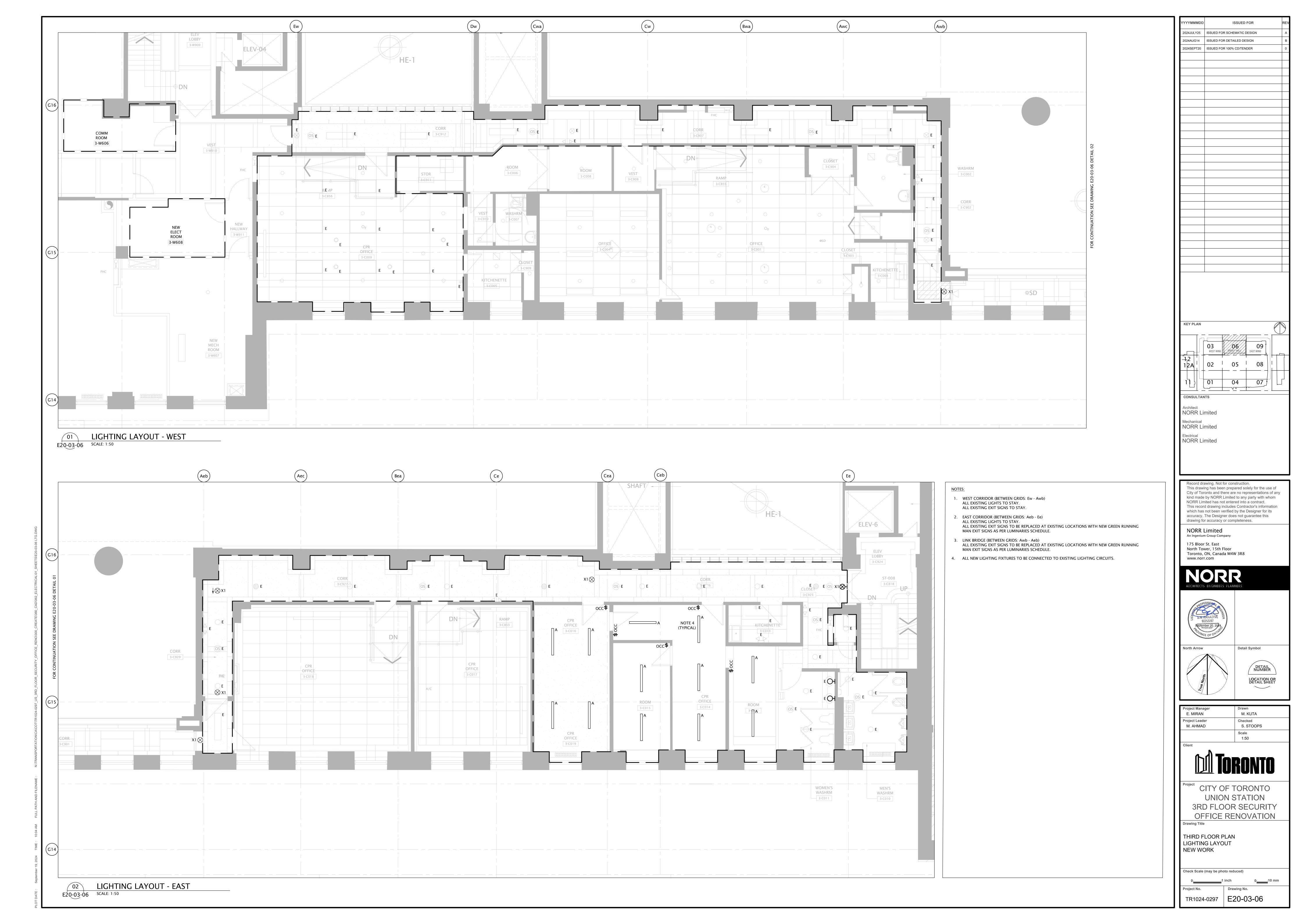
CITY OF TORONTO **UNION STATION** 3RD FLOOR SECURITY OFFICE RENOVATION

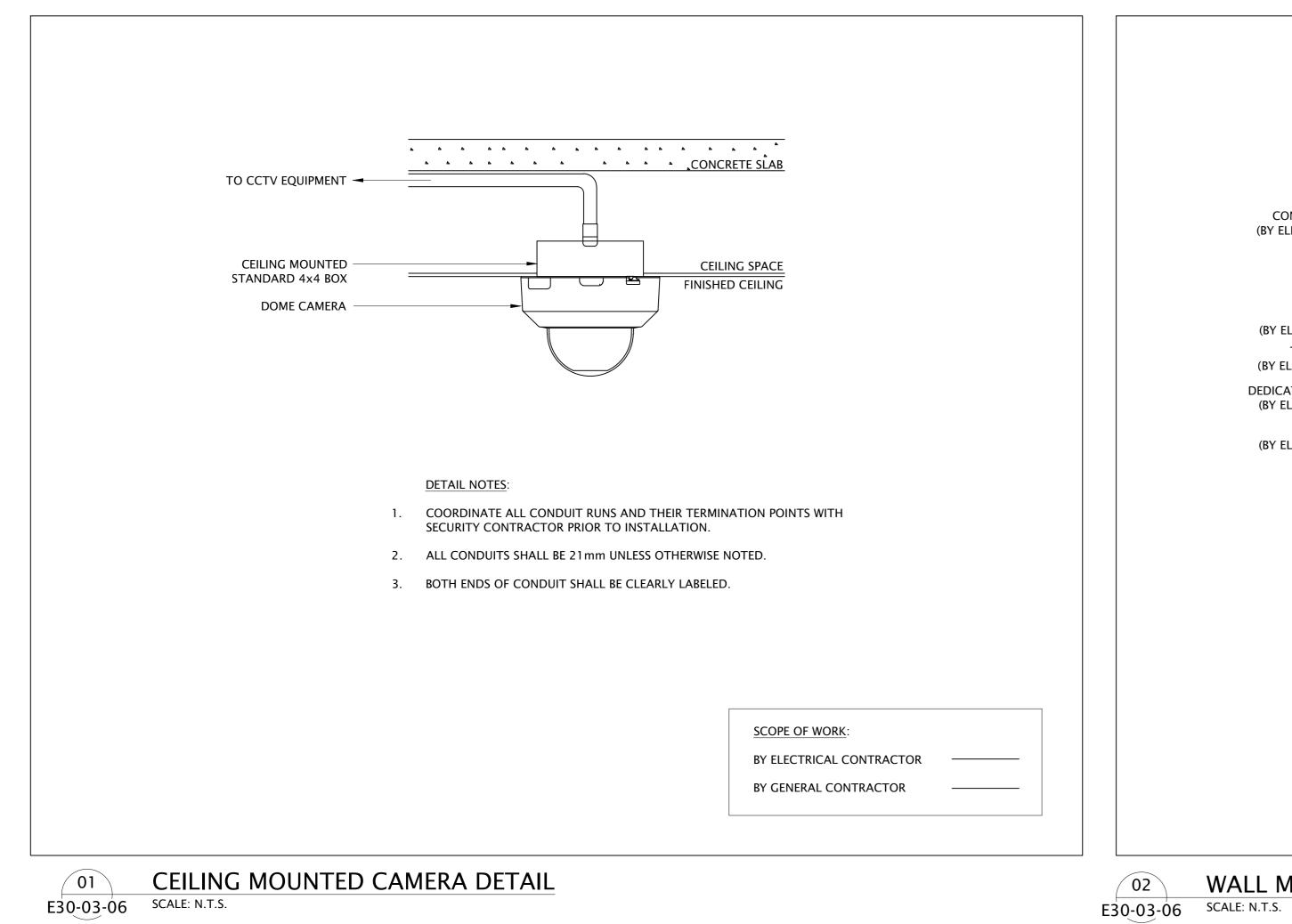
ELECTRICAL LEGEND AND DRAWING LIST

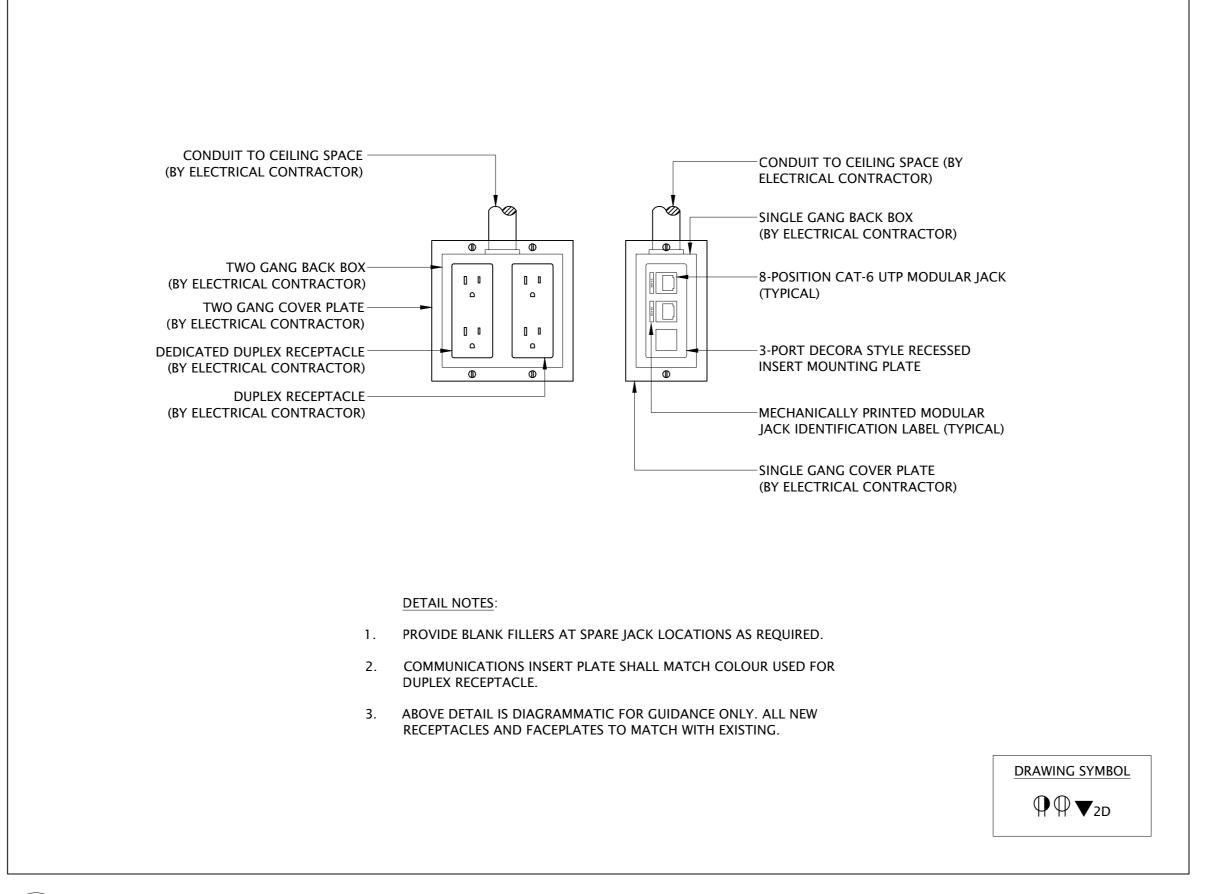
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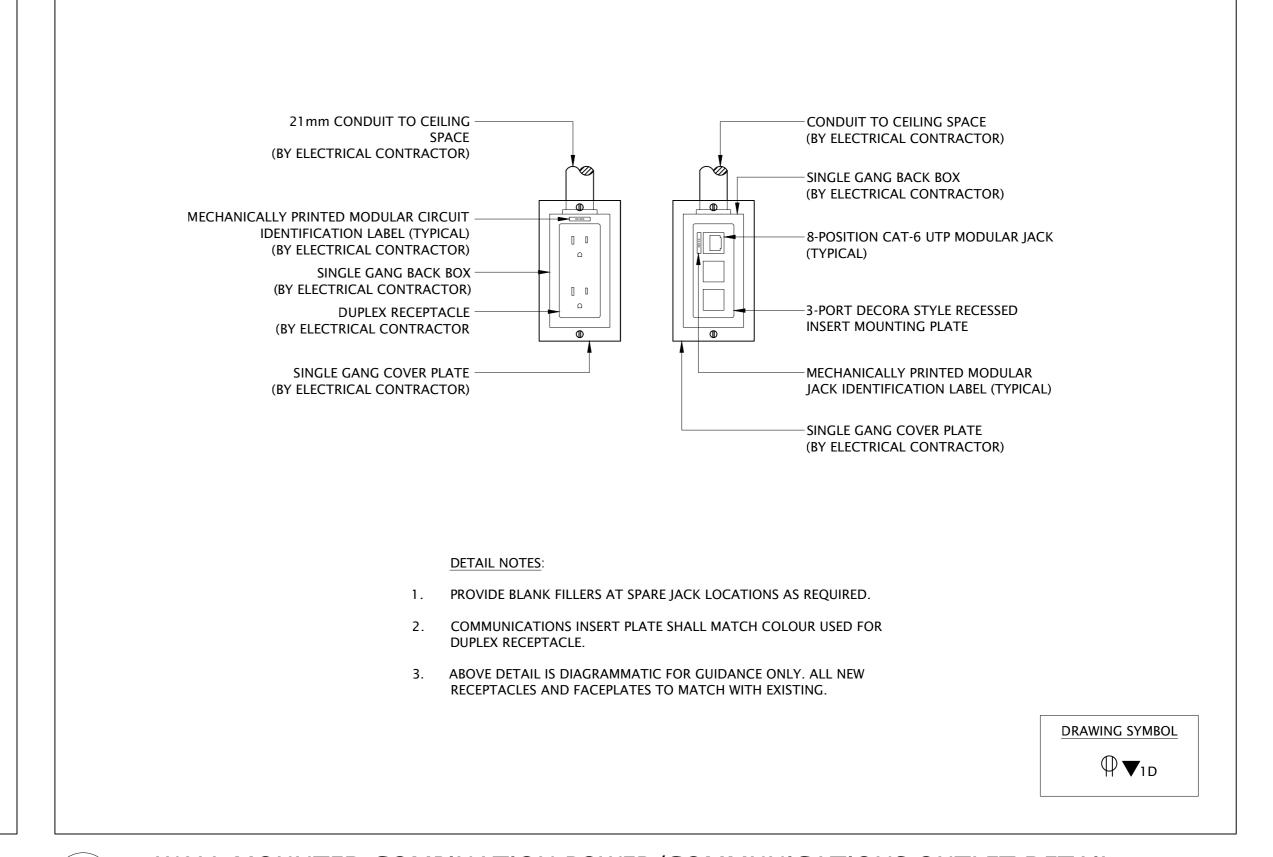
TR1024-0297 **E00-03-06** 











WALL MOUNTED COMBINATION POWER/COMMUNICATIONS OUTLET DETAIL

03 WALL MO E30-03-06 SCALE: N.T.S. WALL MOUNTED COMBINATION POWER/COMMUNICATIONS OUTLET DETAIL

**ISSUED FOR** 2024JULY25 ISSUED FOR SCHEMATIC DESIGN 2024AUG14 ISSUED FOR DETAILED DESIGN 2024SEPT20 ISSUED FOR 100% CD/TENDER

Y PLAN				
	03 WEST WING	<b>06</b>	09 EAST WING	
2 2A	02	05	08	
	01	04	07	
NSULTA	ANTS			

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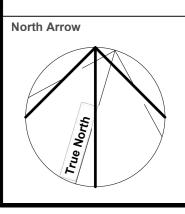
NORR Limited

**NORR Limited** 

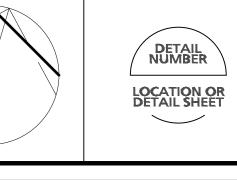
Mechanical **NORR Limited** 

www.norr.com





M. AHMAD



M. KUTA

S. STOOPS

Detail Symbol

	Scale NTS
Client	
	RONTO

CITY OF TORONTO

**UNION STATION** 3RD FLOOR SECURITY OFFICE RENOVATION

ELECTRICAL DETAILES

Check Scale (may be photo reduced)

TR1024-0297 E30-03-06

E30-03-06 SCALE: N.T.S.



