

Correctional Service Canada - William Head Institution

Fire Alarm System Replacement

6000 William Head Road, Metchosin, B.C.

DRAWING LIST

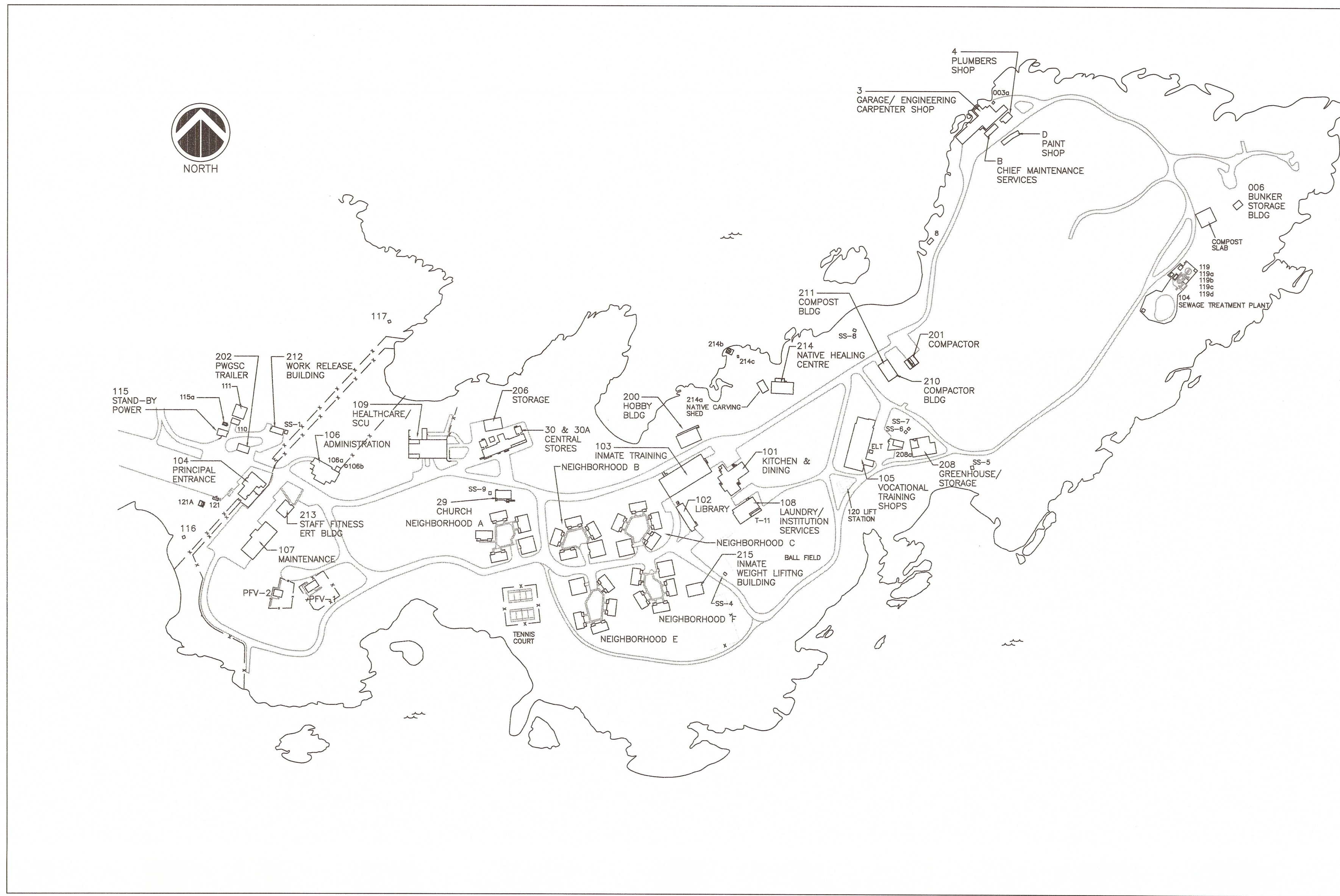
Electrical:

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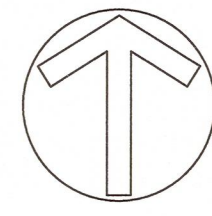
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LEGEND OF SYMBOLS	
	FIRE ALARM BELL
	FIRE ALARM CHIME
	VISUAL STROBE
	AUDIBLE AND VISUAL STROBE
	HEAT DETECTOR
	F= DEVICE SUITABLE FOR FREEZER
	A= DEVICE IN ATTIC SPACE ABOVE
	N= NEW DEVICE, NO EXISTING DEVICE
	EXP= EXPLOSION PROOF DEVICE
	SMOKE DETECTOR
	DUCT SMOKE DETECTOR
	UNDER FLOOR SMOKE DETECTOR
	COMBINED SMOKE & CO DETECTOR
	DASHED LINE INDICATES RELOCATION
	ELECTROMAGNETIC DOOR HOLD-OPEN DEVICE
	CENTRAL VACUUM SHUT-DOWN CONTACTOR
	PULL STATION
	SPRINKLER FLOW SWITCH
	SPRINKLER TAMPER SWITCH
	END OF LINE DEVICE
	FIRE ALARM ANNUNCIATOR
	FIRE ALARM CONTROL PANEL
	RELOCATE TO NEW LOCATION, SEE NOTE #30
	DRAWING NOTE
	TELECOM SERVICE ENTRY

- GENERAL NOTES**
- ALL FIRE ALARM EQUIPMENT AND DEVICES SHOWN ON THE FLOOR PLANS ARE EXISTING UNLESS INDICATED AS NEW.
 - WHERE INDICATED AS NEW, PROVIDE CONDUIT, CABLES, DEVICES AND ALL OTHER ITEMS REQUIRED TO CONNECT TO AND FUNCTION AS PART OF THE FIRE ALARM SYSTEM.
 - REPLACE ALL EXISTING FIRE ALARM EQUIPMENT AND DEVICES WITH NEW EXCEPT WHERE INDICATED OTHERWISE. PROVIDE ALL ITEMS REQUIRED TO CONNECT TO AND FUNCTION AS PART OF THE FIRE ALARM SYSTEM.
 - PROVIDE NEW FIRE ALARM FIBRE-OPTIC NETWORK LINKING ALL BUILDINGS, EXCEPT WHERE INDICATED OTHERWISE.
 - EXISTING SPRINKLER TAMPER AND FLOW SWITCHES MAY BE RE-USED, UNLESS INDICATED OTHERWISE.
 - GENERALLY, THE EXISTING DEVICE AND BELL WIRING WITHIN BUILDINGS MAY BE RE-USED, UNLESS INDICATED OTHERWISE.
 - REPLACE ALL EXISTING BELLS, CHIMES AND VISUAL APPLIANCES WITH NEW AUDIBLE/VISUAL NOTIFICATION APPLIANCES, EXCEPT WHERE INDICATED OTHERWISE.
 - FOR EACH FIRE ALARM PANEL, PAINT THE ASSOCIATED CIRCUIT BREAKER RED AND PROVIDE A BREAKER LOCK-ON DEVICE. ENSURE THE PANELBOARD DIRECTORY STATES "FIRE ALARM FOR THE FIRE ALARM BREAKER".
 - REMOVE END OF LINE DEVICES WHERE NO CONDUIT REQUIRED. PROVIDE BLANK COVERPLATES.
 - REMOVE ALL REDUNDANT WIRING, CONDUIT, EQUIPMENT, DEVICES, ETC.
 - PROVIDE A FIBRE OPTIC TERMINATION ENCLOSURE FOR EACH FIRE ALARM PANEL, SIZED TO ACCOMMODATE ALL OF THE FIBRE OPTIC STRANDS. PROVIDE A LAMICOID LABEL ON THE ENCLOSURE "FIBRE OPTIC CABLE TERMINATION FOR FIRE ALARM SYSTEM".
 - TO COMPLY WITH THE NBCC AND CANULC B24, MANUAL PULL STATIONS SHOULD BE A SPECIFIC DISTANCE ABOVE THE FINISHED FLOOR, MEASURED TO THE CENTRE OF THE PULL STATION. THE REQUIREMENTS IN THE NBCC AND CANULC B24 INTERSECT AT A HEIGHT OF 1200mm. MOST OF THE EXISTING PULL STATIONS HEIGHTS ARE NOT CODE COMPLIANT. GENERALLY THEY ARE ABOVE 1400mm. ADJUST THE HEIGHT OF 85% OF THE EXISTING PULL STATIONS TO 1200mm. SOME OF THE 85% OF THE PULL STATIONS TO BE ADJUSTED ARE MARKED ON THE DRAWINGS.
 - ALL FIRE ALARM SYSTEMS SINGLE-STAGE EXCEPT FOR TWO-STAGE SYSTEM IN BUILDING 109.
 - BUILDING 107 WILL BE UNDER CONSTRUCTION BY OTHERS CONCURRENTLY WITH THIS PROJECT. AS NOTED ELSEWHERE, PROVIDE THE NETWORK ANNUNCIATOR WORKSTATION AND THE FIBRE OPTIC LINK TO THE SITE NETWORK WITHIN THIS CONTRACT. COORDINATE WITH THE WORK AT BUILDING 107. PROVIDE ALL REQUIRED PROGRAMMING REQUIRED TO LINK THE FIRE ALARM PANEL AND NETWORK ANNUNCIATOR WORKSTATION IN BUILDING 107 WITH THE SITE FIRE ALARM NETWORK. VERIFICATION OF THE FIRE ALARM PANEL AND DEVICES WITHIN BUILDING 107 ARE NOT INCLUDED IN THIS CONTRACT. VERIFICATION OF THE NETWORK ANNUNCIATOR WORKSTATION AND ALL COMMUNICATION WITH THE SITE NETWORK IS INCLUDED IN THIS CONTRACT.
 - PATCH, PAINT AND MAKE GOOD SURFACES CUT, DAMAGED OR DISTURBED TO DEPARTMENTAL REPRESENTATIVE'S APPROVAL. MATCH EXISTING MATERIAL, COLOUR, FINISH AND TEXTURE.
 - GENERALLY, ALL FIRE ALARM CABLING WITHIN BUILDINGS WILL BE CLASS B, UNLESS INDICATED OTHERWISE.
 - FIRE ALARM CABLING WITHIN BUILDINGS:
 - INSTALL ALL FIRE ALARM CABLING WITHIN EMT OR RIGID STEEL CONDUIT, UNLESS INDICATED OTHERWISE. ALL FIRE ALARM CABLING WITHIN NON-COMBUSTIBLE BUILDINGS SHALL BE IN EMT OR RIGID STEEL CONDUIT. FIRE ALARM CABLING WITHIN COMBUSTIBLE BUILDINGS SHALL BE IN EMT OR RIGID STEEL CONDUIT, OR MAY BE ARMOURD FIRE ALARM CABLE. CONCEAL ALL ARMOURD FIRE ALARM CABLE EXCEPT IN SERVICE ROOMS.
 - PROVIDE FLEXIBLE LIQUID TIGHT STEEL CONDUIT AT ALL NEW SPRINKLER DEVICES.
 - A COPY OF THE LATEST FIRE ALARM INSPECTION REPORT HAS BEEN INCLUDED AS AN APPENDIX WITHIN THE SPECIFICATION. DEFICIENCIES LISTED IN THE REPORT ARE NOT CONSIDERED WITHIN THE SCOPE OF THIS CONTRACT UNLESS SPECIFICALLY INCLUDED IN THE SPECIFICATIONS OR DRAWINGS. ONE OF THE MAIN PURPOSES OF INCLUDING THE REPORT AS AN APPENDIX IS TO ESTABLISH THE NUMBER OF FIRE ALARM DEVICES INCLUDED WITHIN THE SCOPE OF THIS CONTRACT. WHERE THERE IS A DISCREPANCY BETWEEN THE REPORT AND THE DRAWINGS REGARDING THE NUMBERS OF FIRE ALARM DEVICES, THE MAXIMUM NUMBER SHALL BE USED. FOR EXAMPLE, IF THE DRAWINGS SHOW 30 FIRE ALARM DEVICES IN ONE BUILDING AND THE REPORT INDICATES 32 DEVICES, ALLOW FOR 32 FIRE ALARM DEVICES. DEVICES INCLUDE BELLS, CHIMES, SMOKE DETECTORS, DUCT SMOKE DETECTORS, HEAT DETECTORS, PULL STATIONS, FLOW VALVES, TAMPER SWITCHES AND SIMILAR FIRE ALARM EQUIPMENT.
 - MARK ALL ADDITIONAL FIRE ALARM DEVICES ON THE AS-BUILT DRAWINGS.
 - UNLESS INDICATED OTHERWISE, INSTALL FIBRE OPTIC TERMINATION ENCLOSURE ADJACENT TO THE FIRE ALARM PANEL. PROVIDE EMT CONDUIT FOR THE FIBRE OPTIC CABLE FROM WHERE THE FIBRE OPTIC CABLE ENTERS THE BUILDING TO THE FIRE ALARM PANEL LOCATION.
 - GENERALLY, WHERE THERE ARE EXISTING FLUSH-MOUNTED FIRE ALARM PANELS TO BE REPLACED, REMOVE THE DOOR AND PROVIDE A CUSTOM BLANK ALUMINUM COVER PLATE. THE OLD PANEL MAY BE USED AS A JUNCTION BOX. PROVIDE A LAMICOID LABEL "FIRE ALARM JUNCTION BOX".
 - THERE ARE A NUMBER OF CONFINED SPACES THROUGHOUT THE INSTITUTION. CONFORM TO ALL APPLICABLE REGULATIONS REGARDING CONFINED SPACES. COMPLY WITH THE INSTITUTIONAL CONFINED SPACE PROTOCOL INCLUDING THE REQUIREMENT TO OBTAIN AN ENTRY PERMIT.
 - CONFINED SPACES INCLUDE MANHOLES (ALSO KNOWN AS PULL PITS), CRAWLSPACES OF BLDG 30, CRAWLSPACES OF BLDG 101, TUNNELS FROM BLDG 103 TO BLDG 101 & 106, CRAWLSPACE OF BLDG 214, CRAWLSPACE OF BLDG 211, PPV1 & PPV2, AND OTHER LOCATIONS.
 - PROVIDE FIXED TEMPERATURE HEAT DETECTORS IN SPECIFIC HIGH-TEMPERATURE-FLUCTUATION AREAS SUCH AS THE GENERATOR BUILDING, BOILER ROOMS AND SPECIFIC AREAS OF THE KITCHEN.
 - PROVIDE CEILING ACCESS HATCHES, STEEL, CAM LOCK, HINGED, PAINTED, IN DRYWALL CEILINGS WHERE ACCESS IS REQUIRED.
 - PROVIDE A CUSTOM UL-APPROVED OUTDOOR WEATHERPROOF ENCLOSURE FOR ALL ANNUNCIATORS LOCATED OUTSIDE A BUILDING. REFER TO DIVISION 26 SPECIFICATION.
 - TEST AUDIBLE LEVEL OF ALL NOTIFICATION APPLIANCES AND ADJUST SOUND OUTPUT LEVELS AS REQUIRED. USE LOWER SETTINGS IN ENCLOSED CONTROL POSTS. FOR EXAMPLE ROOMS 211 AND 216 IN BLDG 109.
 - PROVIDE A RED LAMICOID LABEL ON ALL FIRE ALARM BOXES. LOCATE THE POSITION OF THE DEVICE/EQUIPMENT, PROVIDE A NEW DEVICE/EQUIPMENT, AND EXTEND THE WIRING.
 - WHERE "REL" (RELOCATE) IS INDICATED ON THE DRAWINGS, RELOCATE THE POSITION OF THE DEVICE/EQUIPMENT, PROVIDE A NEW DEVICE/EQUIPMENT, AND EXTEND THE WIRING.
 - DRAWING SYMBOLS SHOW THE EXISTING TYPE OF DEVICE. IN SOME CASES A DIFFERENT TYPE OF NEW DEVICE IS REQUIRED. FOR EXAMPLE, IN BUILDING 115 ON DRAWING E-06 AN EXISTING BELL IS INDICATED, BUT A NEW AUDIBLE/VISUAL NOTIFICATION APPLIANCE IS REQUIRED.



AREA 4
(REFER TO DWG E-5)



SITE PLAN
SCALE 1:1500

BUILDING LIST		
3	GARAGE/ ENGINEERING/ CARPENTER SHOP	
4	PLUMBERS SHOP	
9	STORAGE BUILDING	
29	CHURCH	
30	CENTRAL STORES	
30A	FLAMMABLE STORAGE	
101	KITCHEN	
102	LIBRARY	
103	INMATE TRAINING	
104	PRINCIPAL ENTRANCE	
105	VOCATIONAL TRAINING SHOPS	
ELT	ELECTRICAL TRAINING SHED	
106	ADMINISTRATION	
106A	GAZEBO	
106B	GAZEBO	
107	MAINTENANCE	
108	LAUNDRY/ INSTITUTIONAL SERVICES	
109	HEALTHCARE/ SCU	
110	PUMP HOUSE	
111	RESERVOIR	
115	STANDBY POWER PLANT	
115A	DIESEL FUEL TANK ENCLOSURE	
116	SECURITY SHELTER (TOWER 1)	
117	SECURITY SHELTER (TOWER 2)	
119A	TREATMENT PLANT OFFICE	
119B	TREATMENT PLANT COMPRESSOR BUILDING	
119C	TREATMENT PLANT STORAGE SHED	
121	FUEL PUMP STATION	
121A	FUEL TANK ENCLOSURE	
200	HOBBY BUILDING	
201	GARAGE COMPACTOR	
202	PWSSC TRAILER	
206	METAL STORAGE	
208	GREENHOUSE/ STORAGE	
208A	GREENHOUSE POTTING SHELTER	
210	COMPACTOR BUILDING	
211	COMPOST BUILDING	
212	WORK RELEASE BUILDING	
213	STAFF FITNESS/ ERT BUILDING	
214	NATIVE HEALING CENTRE	
214A	NATIVE CARVING SHED	
214B	NATIVE SWEAT LODGE	
214C	NATIVE SWEAT LODGE STORAGE	
215	INMATE WEIGHT LIFTING BUILDING	
A-E	NEIGHBORHOODS	
PFV-1	FAMILY VISIT	
PFV-2	FAMILY VISIT	
B	CHIEF MAINTENANCE SERVICES	
D	PAINT SHOP	
006	BUNKER STORAGE BUILDING	
T-11	STORAGE UNIT	
003a	FISHING WHARF TOILET	
SS-1	WORK RELEASE STORAGE SHED	
SS-4	BALL FIELD STORAGE SHED	
SS-5	GARDEN SHED 1	
SS-6	GARDEN SHED 2	
SS-7	GARDEN SHED 3	
SS-8	FIRE WOOD SHED	
SS-9	GARDEN SHED 4	



Revision/Revisión	Description/Description	Date/Date
5		
4		
3	ISSUED FOR TENDER	31MAY2016
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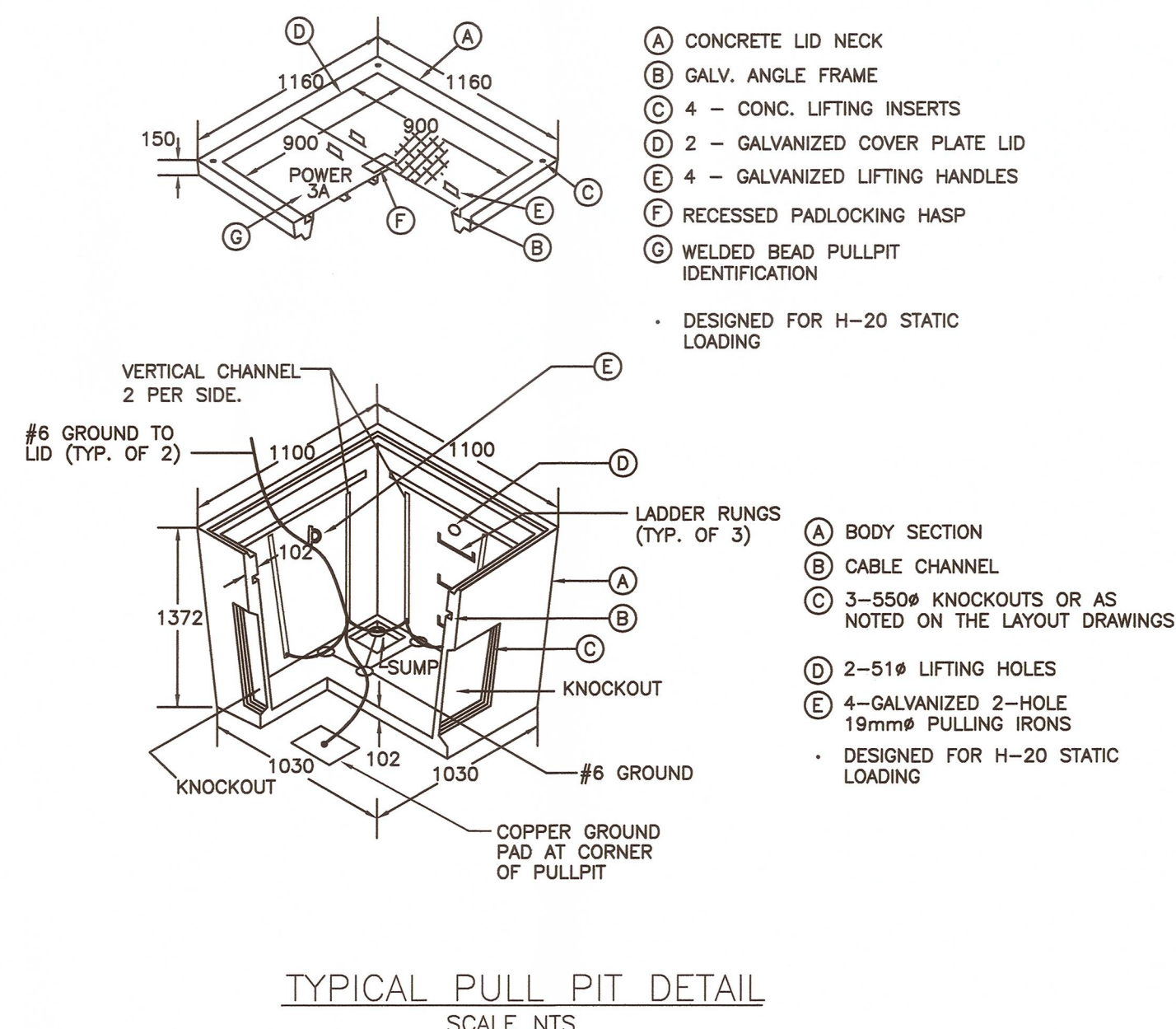
Client/client
CORRECTIONAL SERVICE CANADA

Project title/Titre du projet
**WILLIAM HEAD INSTITUTION
FIRE ALARM
REPLACEMENT**

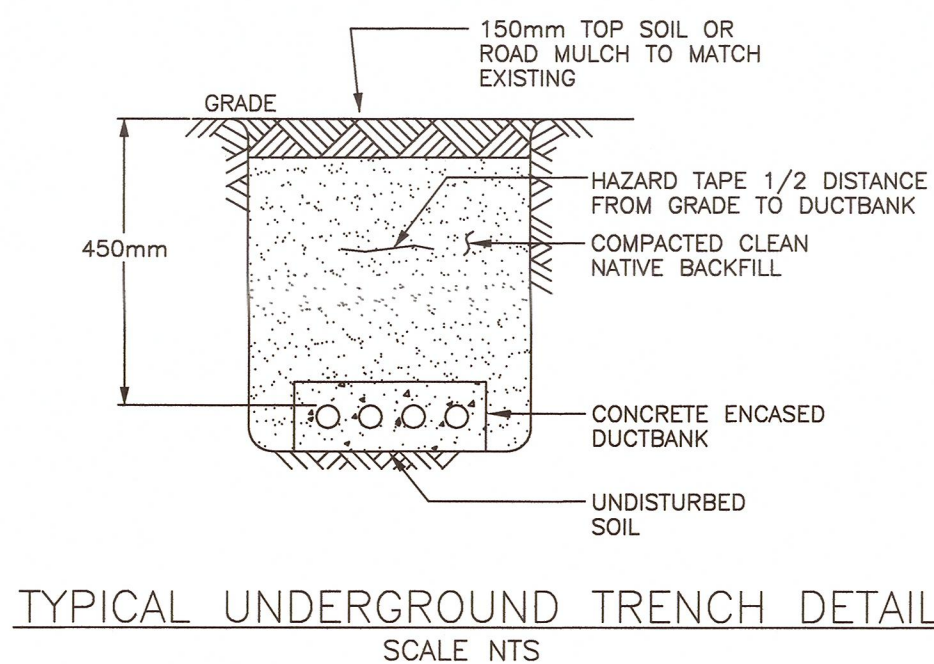
Consultant Signature Box Only
Designed by/Concept par
Greg Robertshaw
Drawn by/Dessiné par
Steve Banfield
PWSSC Project Manager/Administrateur de Projets TPSSC
P. Trioung
PWSSC Regional Manager, Architectural and Engineering Services/
Gestionnaire régionale, Services d'architecture et de génie, TPSSC
P. Paul

Drawing title/Titre du dessin
OVERALL KEY SITE PLAN

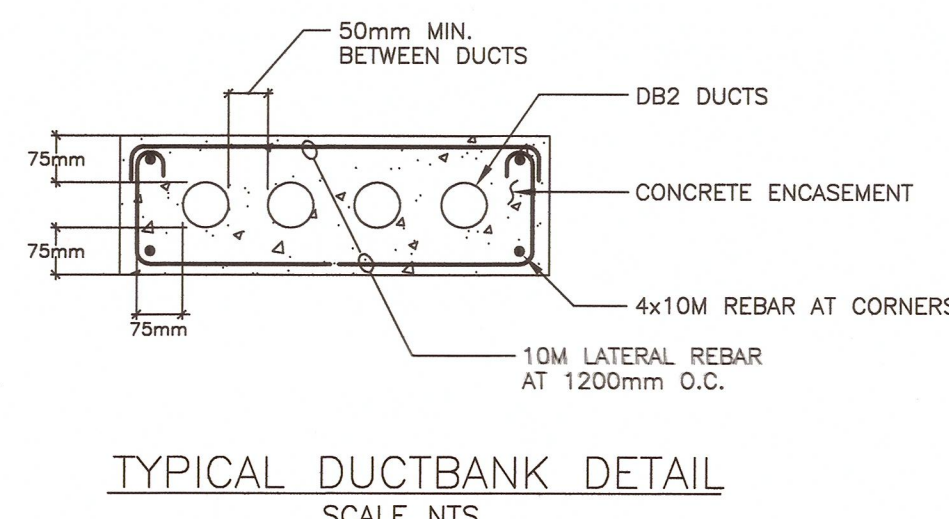
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- NOTES FOR PULL PIT**
- PULL PIT TO BE PLACED ON TOP OF 300mm LAYER OF DRAIN ROCK.
 - COVER PLATES TO BE GALVANIZED COMPLETE WITH RECESSED HASP FOR PADLOCKING AND WELDED BEAD PULL PIT IDENTIFICATION.
 - LIFTING HANDLES MUST BE RECESSED WHEN NOT IN USE.
 - BOND ALL METAL COMPONENTS IN PULL PIT TO GROUND ROD WITH #6 GROUND WIRE.
 - EXACT LOCATION OF PULL PIT SHALL BE CONFIRMED ON SITE WITH DEPARTMENTAL REPRESENTATIVE PRIOR TO EXCAVATION AND INSTALLATION.



- NOTES:**
- UNLESS NOTED OTHERWISE, ALL OUTDOOR CONDUIT SHALL BE INSTALLED UNDERGROUND AND BE INSTALLED WITHIN A REINFORCED CONCRETE-ENCASED DUCTBANK.
 - REFER TO THE SITE PLAN FOR THE NUMBER OF CONDUITS IN EACH DUCTBANK.
 - USE PLASTIC SPACERS TO SEPARATE THE CONDUITS WITHIN THE DUCTBANK.



- NOTES:**
- REFER TO THE SITE PLAN FOR THE NUMBER OF CONDUITS IN EACH DUCTBANK.

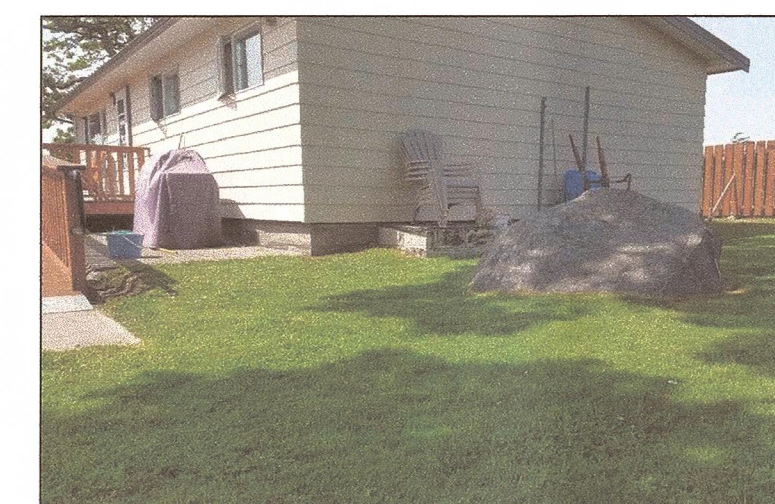
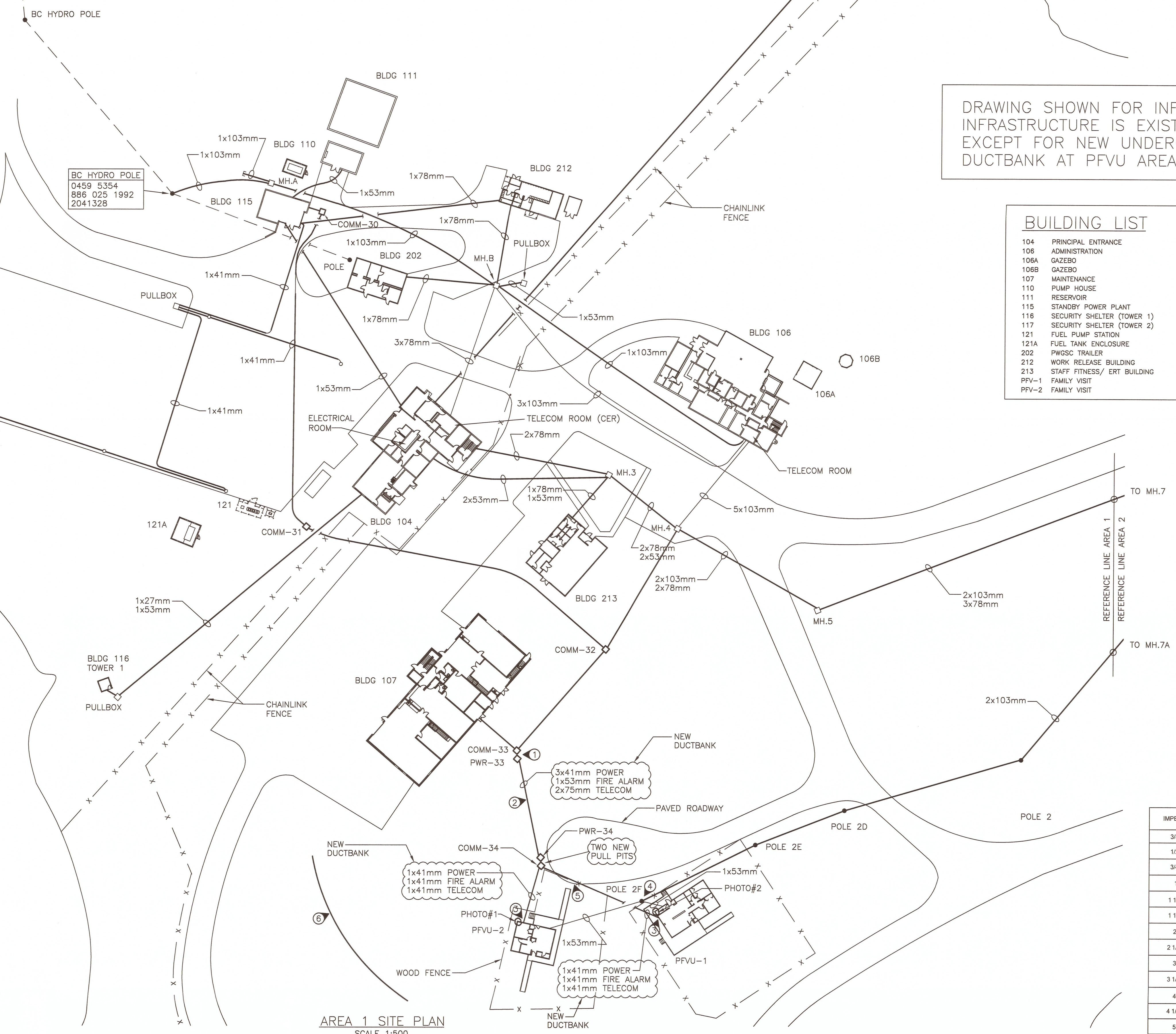


PHOTO OF PFVU-1 BUILDING CRAWLSPACE ACCESS
PHOTO #1
SCALE NTS



PHOTO OF PFVU-2 BUILDING CRAWLSPACE ACCESS
PHOTO #2
SCALE NTS

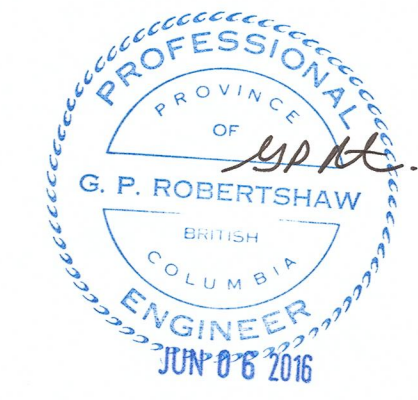
- DRAWING NOTES:**
- CONNECT TO EXISTING PULL PITS. NOTE THAT PULL PITS COMM-33, COMM-32, PWR-33 AND DUCTBANKS FROM COMM-33 TO MH-4 WILL BE PROVIDED UNDER THE CONTRACT FOR BUILDING 107 AND WILL BE UNDER CONSTRUCTION AT THE SAME TIME AS THIS CONTRACT.
 - PROVIDE TWO NEW FIRE ALARM FIBRE-OPTIC CABLES, ONE FOR EACH OF THE TWO PFVU BUILDINGS WITHIN THE NEW FIRE ALARM CONDUITS. ALL OTHER NEW CONDUITS WILL BE EMPTY EXCEPT FOR NEW PULL ROPES.
 - ROUTE NEW CONDUITS INTO THE CRAWLSPACE AND THEN STUB UP THROUGH THE FLOOR INTO THE MECHANICAL/ELECTRICAL ROOMS IN THE TWO PFVU BUILDINGS. CONNECT THE NEW FIRE ALARM CONDUITS TO THE NEW FIRE ALARM SYSTEM. FOR ALL OTHER NEW CONDUITS, STUB UP IN LOCATIONS SUITABLE FOR FUTURE CONNECTION TO THE APPLICABLE SYSTEMS. REFER TO THE PHOTOS OF THE BUILDINGS ON THIS DRAWING. NOTE THERE IS A CONCRETE CRAWLSPACE FLOOR IN PFVU 2 AND AN EARTH CRAWLSPACE FLOOR IN PFVU 1. IN BOTH CASES, THE CRAWLSPACES ARE CONFINED SPACES.
 - RETAIN EXISTING WIRING FED FROM POLE 2F INTO THE TWO PFVU BUILDINGS. REMOVE REDUNDANT FIRE ALARM CABLING FROM POLE 2 TO BUILDING 29.
 - ROUTE NEW CONDUITS UNDER APPROXIMATELY 2.5m CONCRETE/ASPHALT WALKWAY AREA. REMOVE ASPHALT AND CONCRETE; REPLACE APPROXIMATELY 2.5m X 4.5m WALKWAY AREA WITH CONCRETE.
 - PROVIDE SILT FENCE TO PREVENT SILT FROM ENTERING OCEAN OR NEARBY DRAINAGE AREA. APPROXIMATE FENCE LINE SHOWN. INSTALL SILT FENCE TO SUIT EXISTING SITE CONDITIONS AND SLOPE. CONFIRM LOCATION WITH DEPARTMENTAL REPRESENTATIVE.



DRAWING SHOWN FOR INFORMATION
INFRASTRUCTURE IS EXISTING,
EXCEPT FOR NEW UNDERGROUND
DUCTBANK AT PFVU AREA.

BUILDING LIST

104	PRINCIPAL ENTRANCE
106	ADMINISTRATION
106A	GAZEBO
106B	GAZEBO
107	MAINTENANCE
110	PUMP HOUSE
111	RESERVOIR
115	STANDBY POWER PLANT
116	SECURITY SHELTER (TOWER 1)
117	SECURITY SHELTER (TOWER 2)
121	FUEL PUMP STATION
121A	FUEL TANK ENCLOSURE
202	PWSC TRAILER
212	WORK RELEASE BUILDING
213	STAFF FITNESS/ERT BUILDING
PFV-1	FAMILY VISIT
PFV-2	FAMILY VISIT



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FIRE ALARM
REPLACEMENT**

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PWSC, Regional Manager, Architectural and Engineering Services/
Gestionnaire régionale, Services d'architectural et de génie, TPSCG
P. Paul

Drawing Title/Titre du dessin
**SITE PLAN
AREA 1**

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
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	OF 20	

CONDUIT SIZE CHART

IMPERIAL	METRIC
3/8"	12mm
1/2"	16mm
3/4"	21mm
1"	27mm
1 1/4"	35mm
1 1/2"	41mm
2"	53mm
2 1/2"	63mm
3"	78mm
3 1/2"	91mm
4"	103mm
4 1/2"	116mm
5"	128mm
6"	155mm



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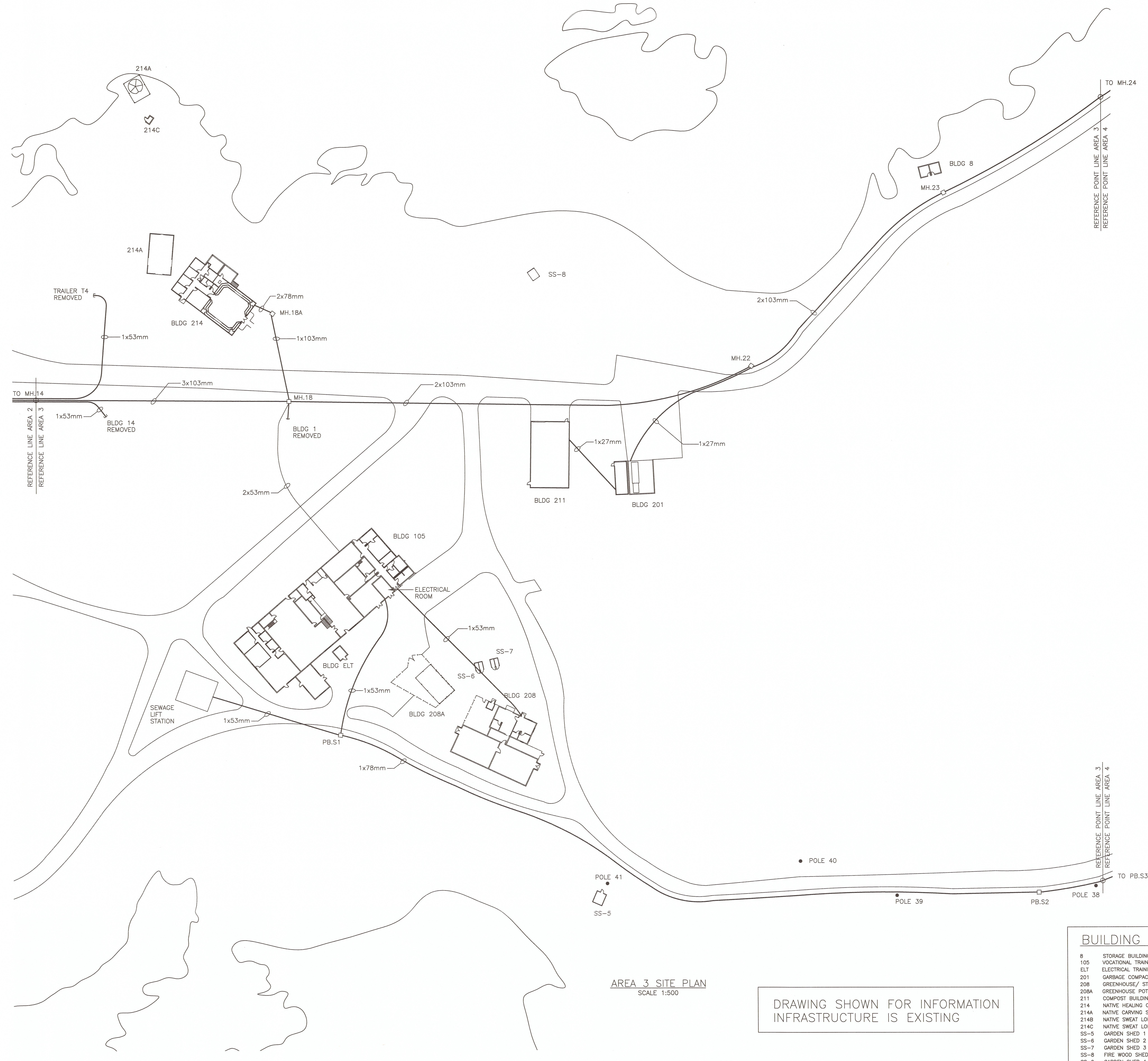
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PWGSC, Regional Manager, Architectural and Engineering Services/
 Gestionnaire régionale, Services d'architecture et de génie, TPSSC
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**SITE PLAN
 AREA 3**

Project No./No. du projet R.071314.001	Sheet/Fauille E-04 OF 20	Revision no./ Le Révision 3
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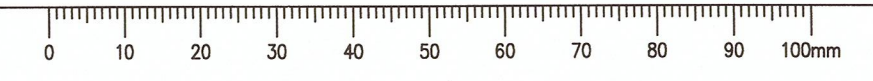
AREA 3 SITE PLAN
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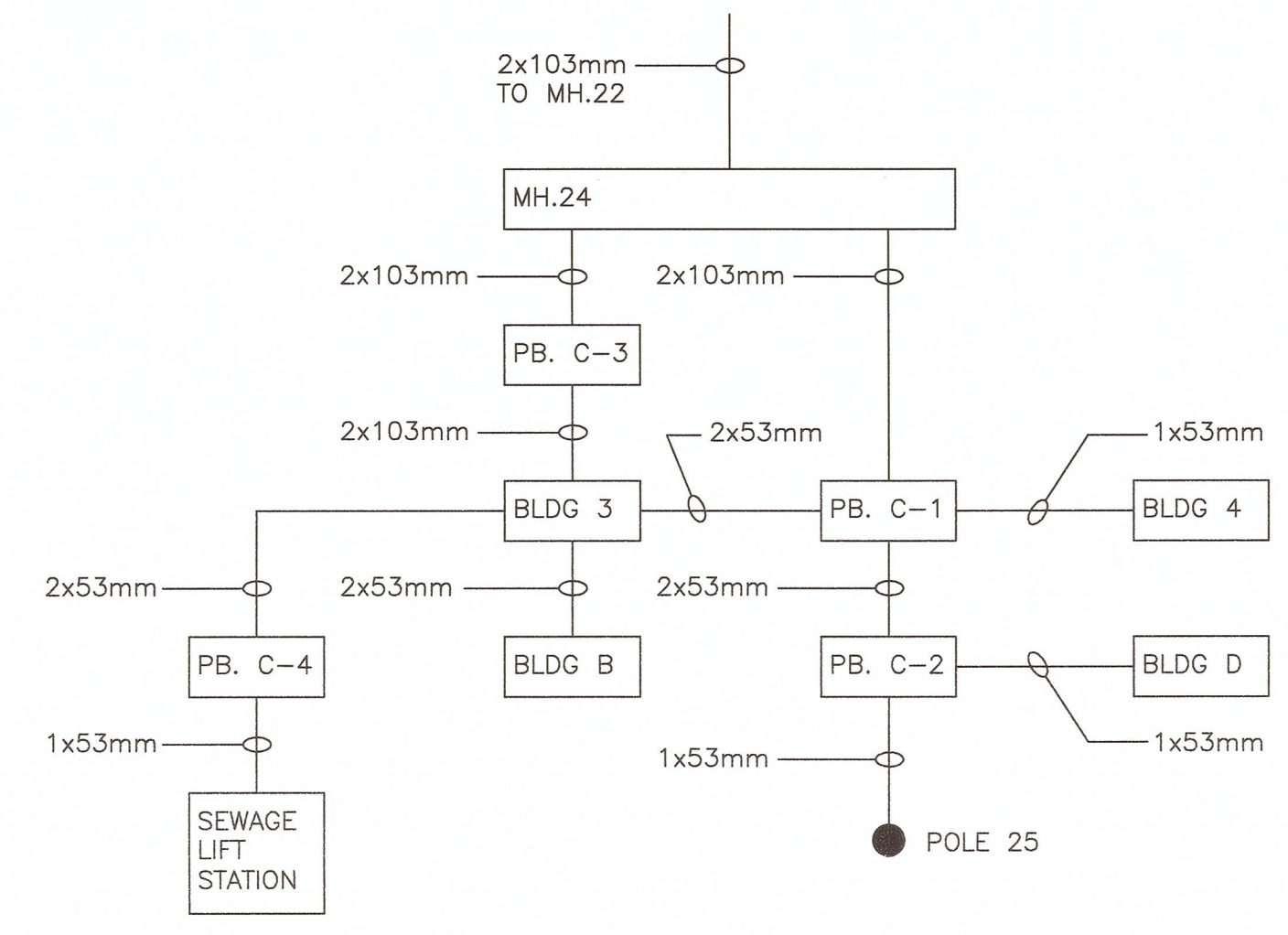
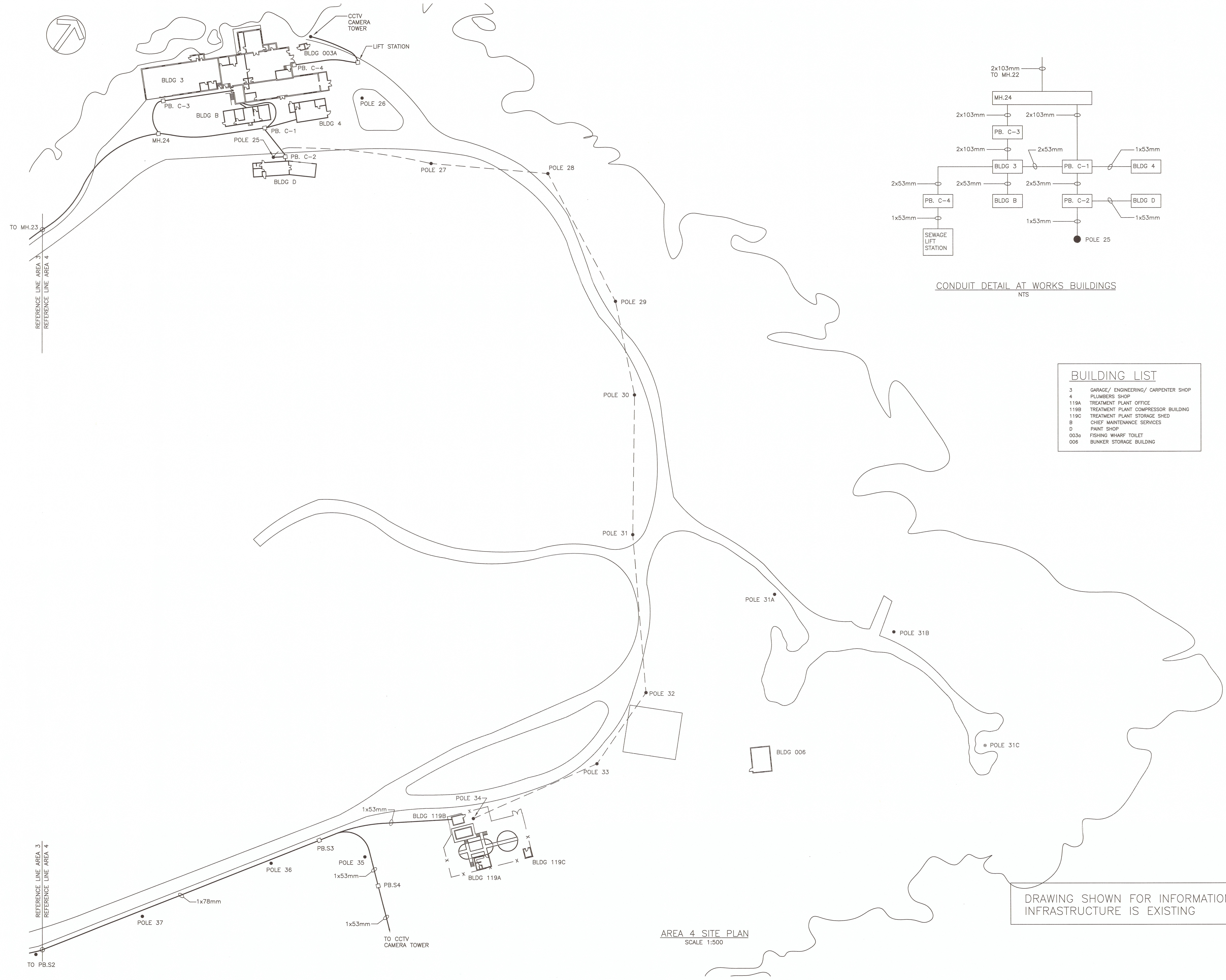
DRAWING SHOWN FOR INFORMATION
 INFRASTRUCTURE IS EXISTING

BUILDING LIST

8	STORAGE BUILDING
105	VOCATIONAL TRAINING SHOPS
ELT	ELECTRICAL TRAINING SHED
201	GARBAGE COMPACTOR
208	GREENHOUSE/ STORAGE
208A	GREENHOUSE/ POTTING SHELTER
211	COMPOST BUILDING
214	NATIVE HEALING CENTRE
214A	NATIVE CARVING SHED
214B	NATIVE SWEAT LODGE
214C	NATIVE SWEAT LODGE STORAGE
SS-5	GARDEN SHED 1
SS-6	GARDEN SHED 2
SS-7	GARDEN SHED 3
SS-8	FIRE WOOD SHED
SS-9	GARDEN SHED 4

31MAY2016





CONDUIT DETAIL AT WORKS BUILDINGS
NTS

BUILDING LIST	
3	GARAGE/ ENGINEERING/ CARPENTER SHOP
4	PLUMBERS SHOP
119A	TREATMENT PLANT OFFICE
119B	TREATMENT PLANT COMPRESSOR BUILDING
119C	TREATMENT PLANT STORAGE SHED
B	CHIEF MAINTENANCE SERVICES
D	PAINT SHOP
003a	FISHING WHARF TOILET
006	BUNKER STORAGE BUILDING



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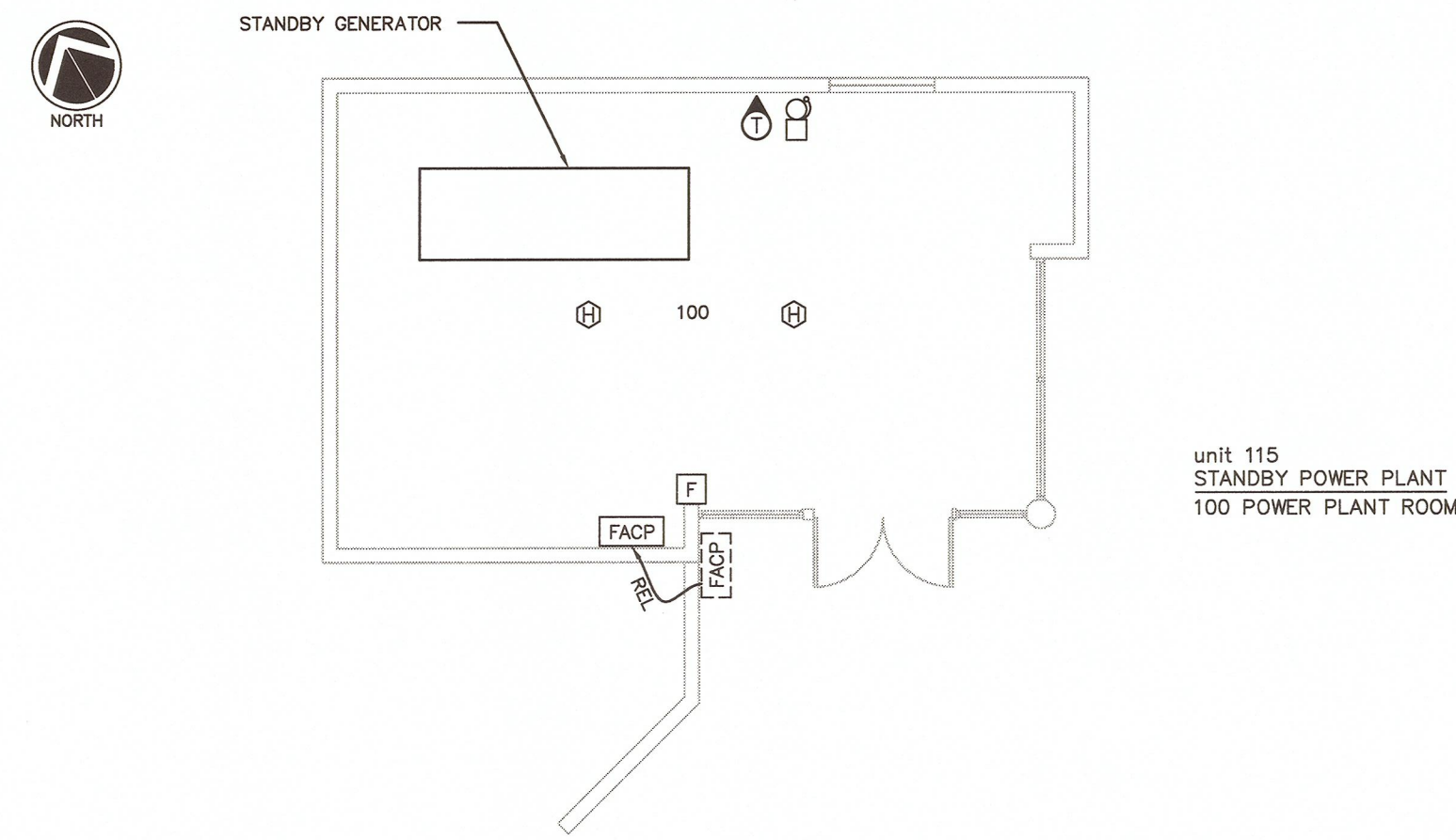
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PWGSC: Regional Manager, Architectural and Engineering Services/
Gestionnaire régional, Services d'architectural et de génie, TPSGC
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Drawing title/Titre du dessin
**SITE PLAN
AREA 4**

DRAWING SHOWN FOR INFORMATION
INFRASTRUCTURE IS EXISTING

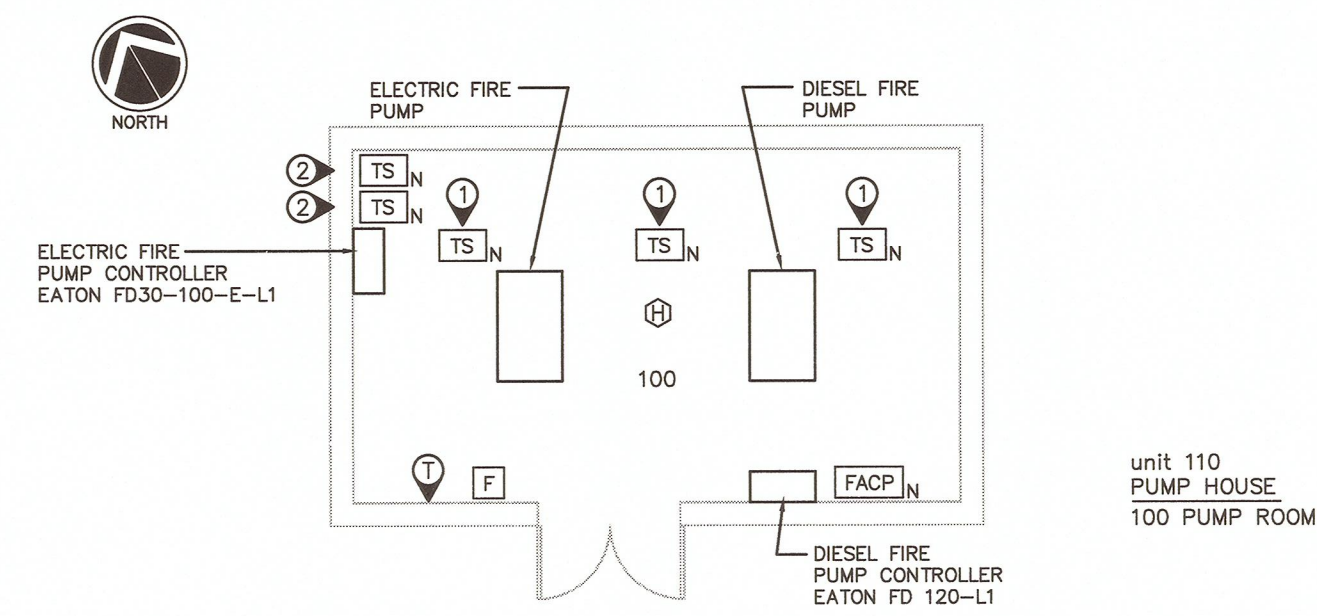
AREA 4 SITE PLAN
SCALE 1:500

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BLDG 115 - STANDBY POWER PLANT FLOOR PLAN
 SCALE 1:100

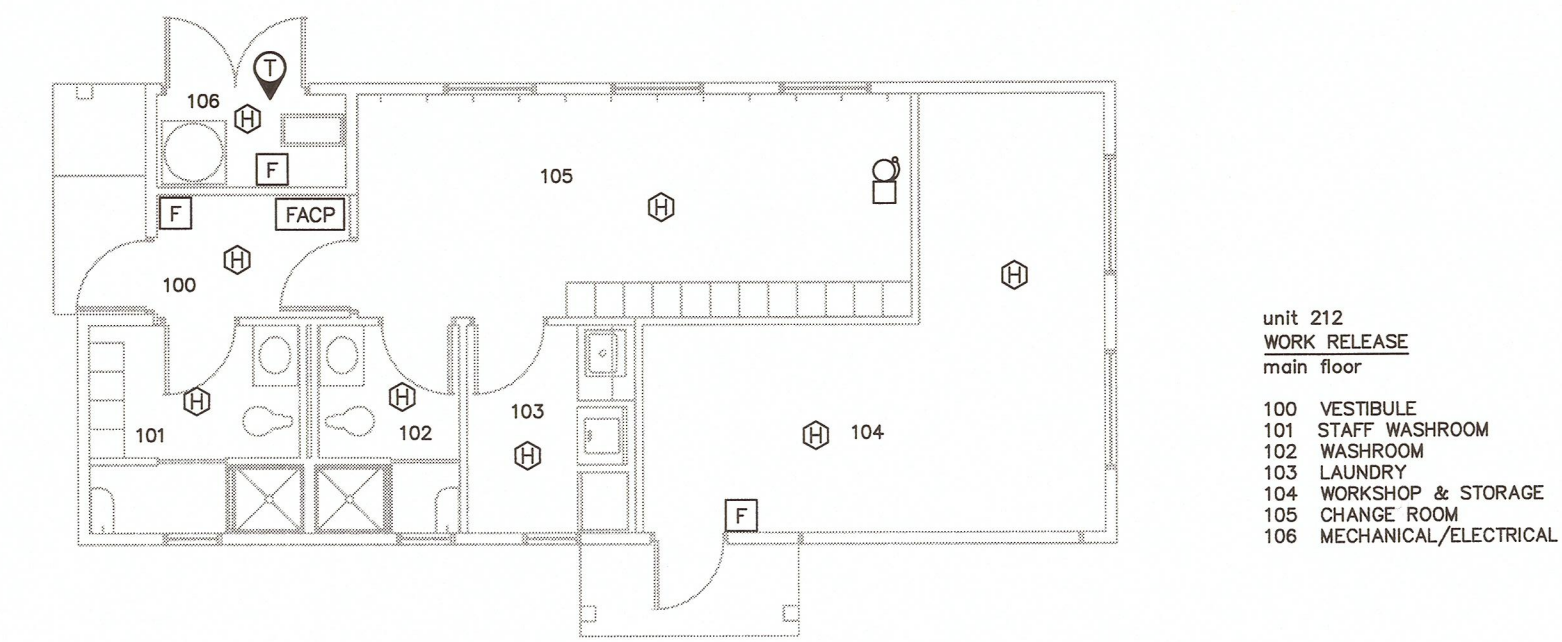
NOTE: GENERATOR NOT CLASSIFIED AS AN EMERGENCY SOURCE.



BLDG 110 - PUMP HOUSE FLOOR PLAN
 SCALE 1:100

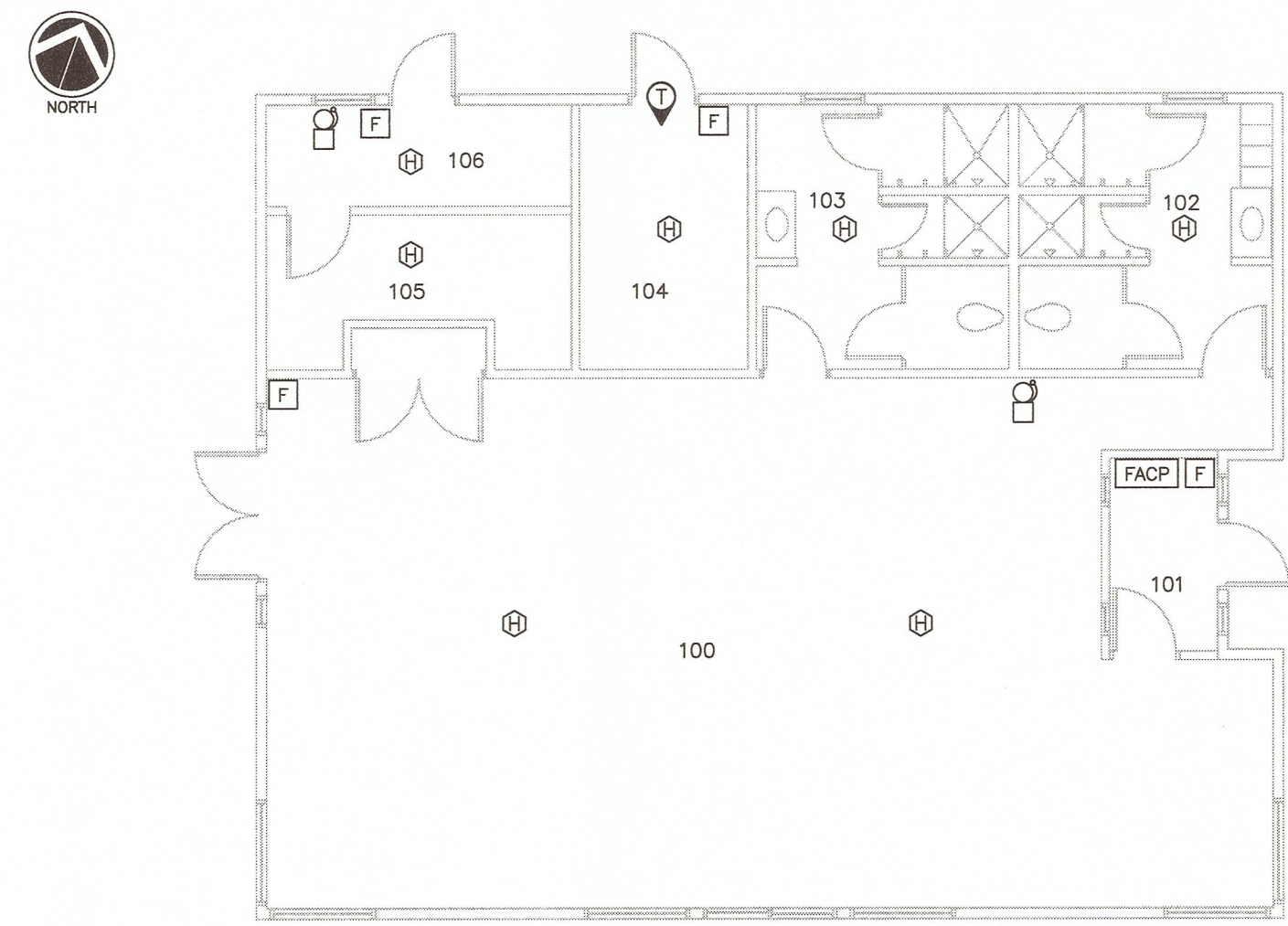
- NOTES:**
- EXISTING FIRE PUMP ANNUNCIATORS ARE LOCATED WITHIN BUILDING 104, WITH NO CONNECTION TO THE FIRE ALARM SYSTEM.
 - PROVIDE SUPERVISORY SWITCHES FOR FIVE EXISTING OS&Y FIRE PROTECTION VALVES. ALL WORK TO CUL AND NFPA 13.
 - ROUTE NEW FIBRE CABLE THROUGH BUILDING 115 WITH NO SPLICES.
 - FIRE PUMP FLOW SWITCHES WILL BE ADDED BY OTHERS. CONNECT FIRE ALARM SYSTEM TO THE TWO NEW FLOW SWITCHES.
 - EXISTING ELECTRIC AND DIESEL FIRE PUMP CONTROLLERS ARE SHOWN FOR INFORMATION PURPOSES.

- DRAWING NOTES:**
- FIRE PUMP VALVES.
 - RESERVOIR FILL VALVES.



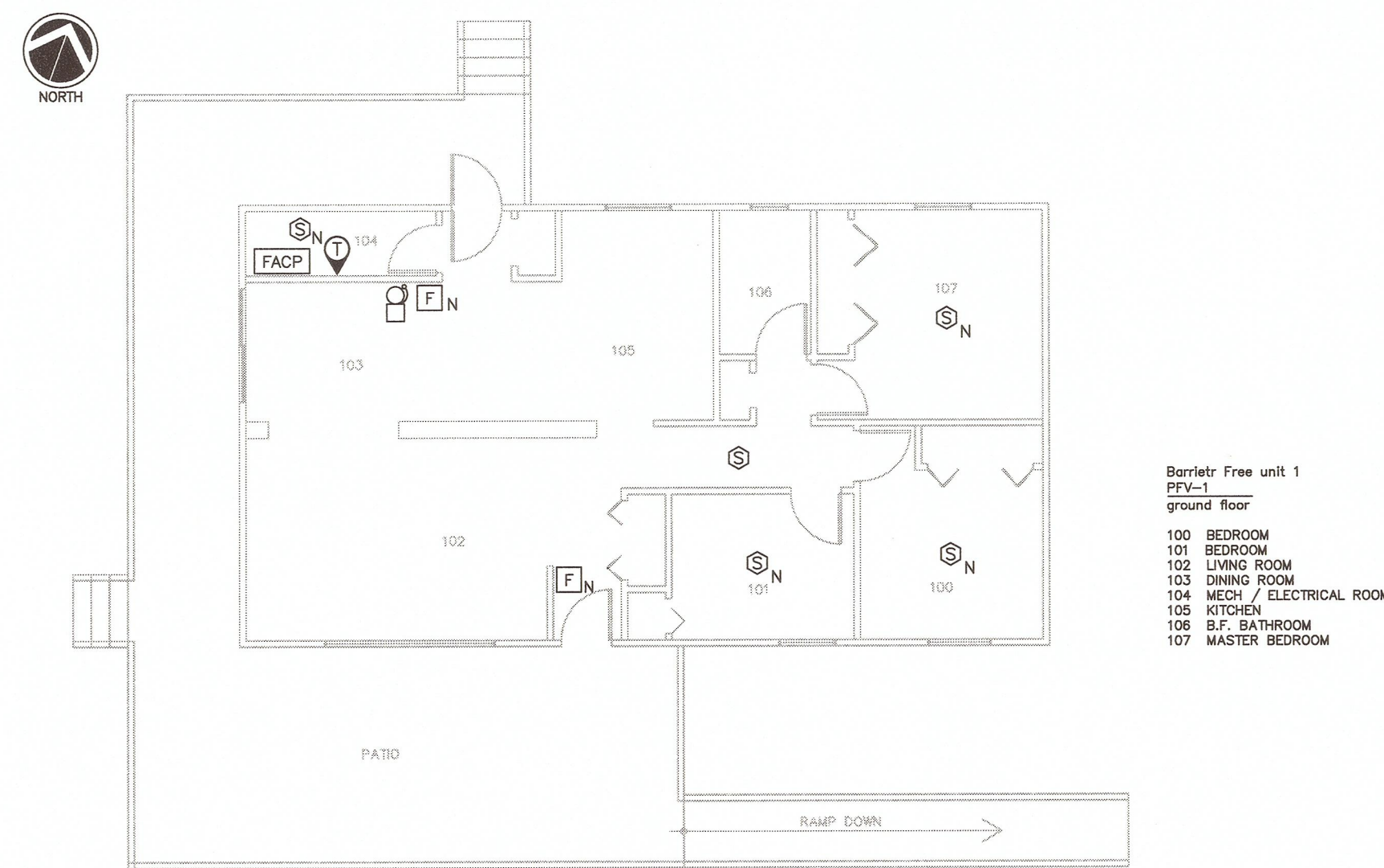
BLDG 212 - WORK RELEASE FLOOR PLAN
 SCALE 1:100

- unit 212
 WORK RELEASE
 main floor
- 100 VESTIBULE
 - 101 STAFF WASHROOM
 - 102 WASHROOM
 - 103 LAUNDRY
 - 104 WORKSHOP & STORAGE
 - 105 CHANGE ROOM
 - 106 MECHANICAL/ELECTRICAL



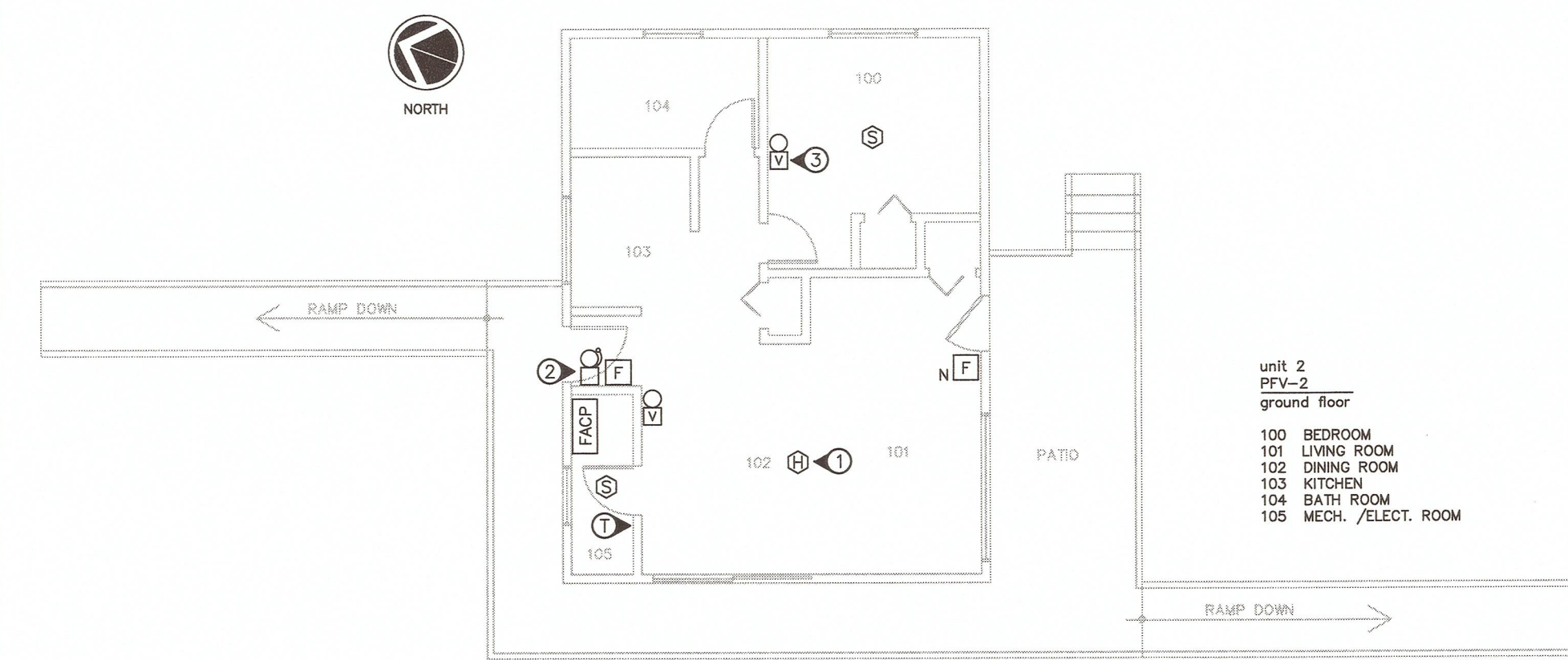
BLDG 213 - STAFF FITNESS / ERT BUILDING FLOOR PLAN
 SCALE 1:100

- building no. 213
 STAFF FITNESS / ERT BUILDING
 ground floor
- 100 TRAINING ROOM
 - 101 ENTRANCE
 - 102 WASHROOM/ LOCKER ROOM
 - 103 WASHROOM/ LOCKER ROOM
 - 104 MECH/ ELECTRICAL ROOM
 - 105 STORAGE ROOM
 - 106 STORAGE ROOM



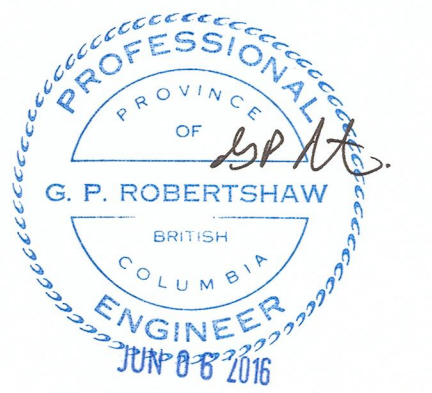
UNIT 1 - PRIVATE FAMILY VISIT FLOOR PLAN
 SCALE 1:100

- Barrier Free unit 1
 PIV-1
 ground floor
- 100 BEDROOM
 - 101 BEDROOM
 - 102 LIVING ROOM
 - 103 LIVING ROOM
 - 104 MECH / ELECTRICAL ROOM
 - 105 KITCHEN
 - 106 B.F. BATHROOM
 - 107 MASTER BEDROOM



UNIT 2 - PRIVATE FAMILY VISIT FLOOR PLAN
 SCALE 1:100

- DRAWING NOTES:**
- CHANGE TO SMOKE DETECTOR.
 - REMOVE BELL.
 - PROVIDE NEW VISUAL-ONLY NOTIFICATION APPLIANCE FOR THIS HANDICAP UNIT.



Revision/Revision	Description/Description	Date/Date
5		
4		
3	ISSUED FOR TENDER	31MAY2016
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CORRECTIONAL SERVICE CANADA

Project title/Titre du projet
**WILLIAM HEAD INSTITUTION
 FIRE ALARM
 REPLACEMENT**

Consultant Signature Box Only

Designed by/Concept par
Greg Robertshaw

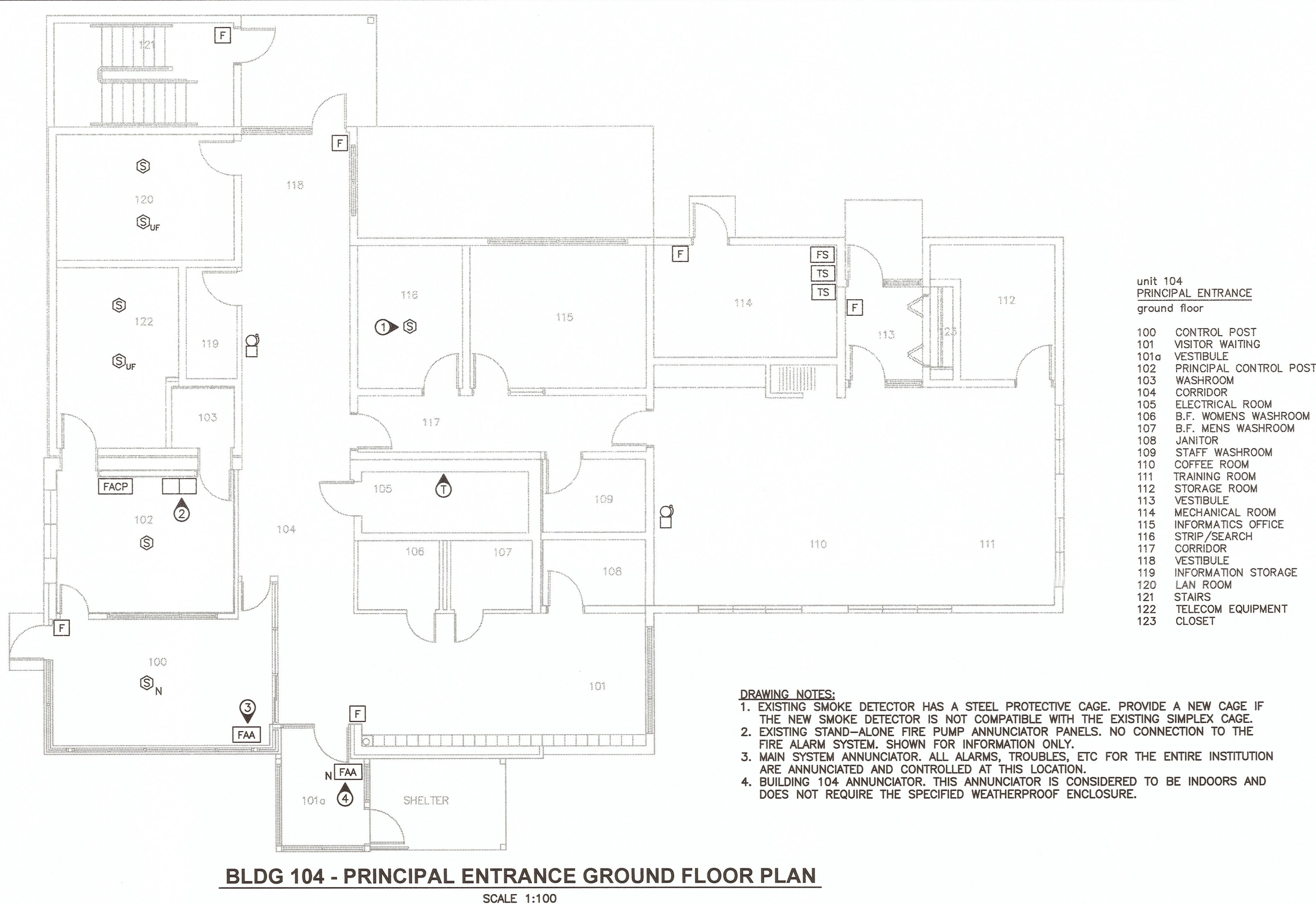
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Drawing title/Titre du dessin
**FIRE ALARM FLOOR PLANS
 GROUP A**

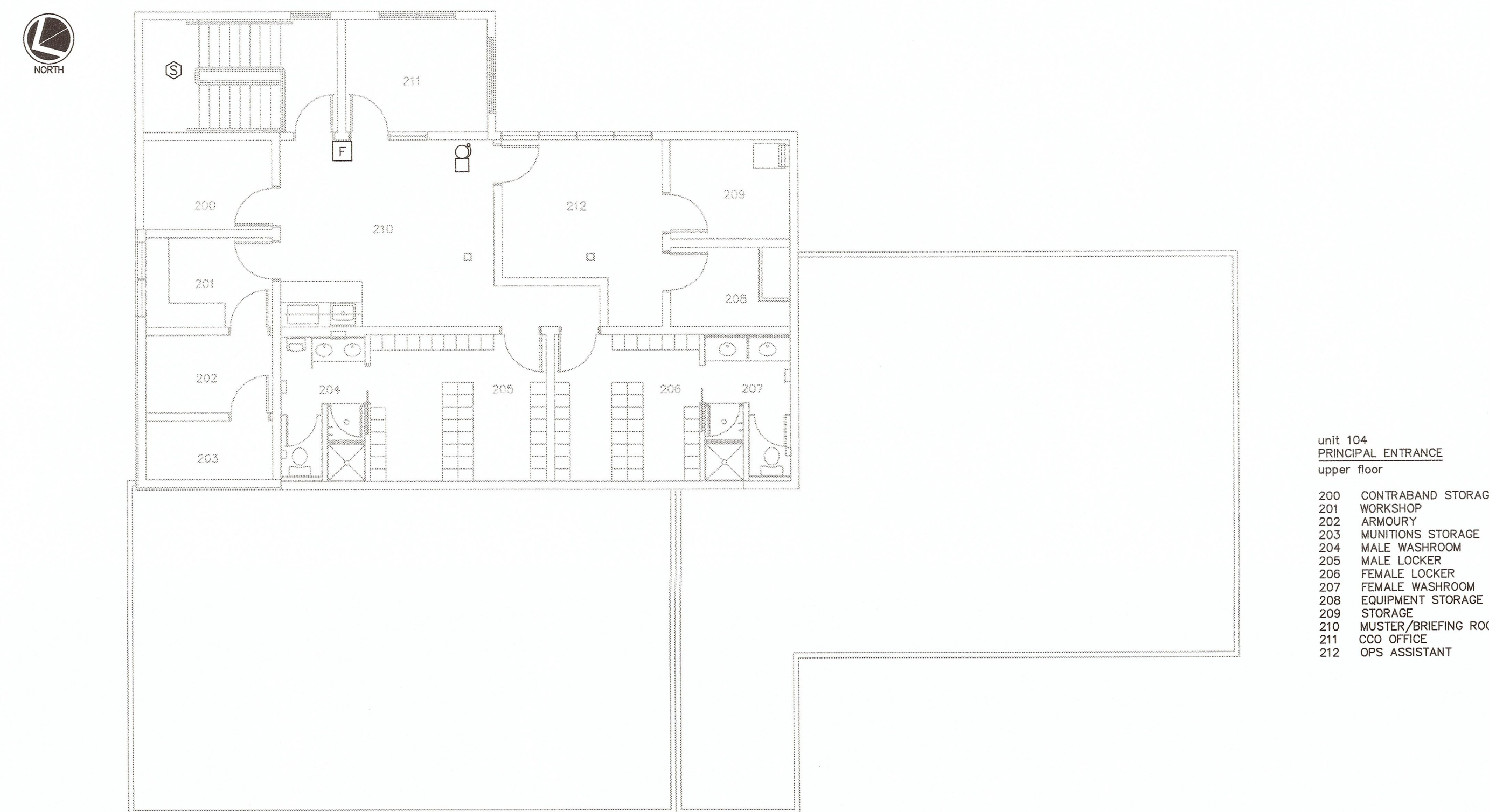
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BLDG 104 - PRINCIPAL ENTRANCE GROUND FLOOR PLAN
 SCALE 1:100

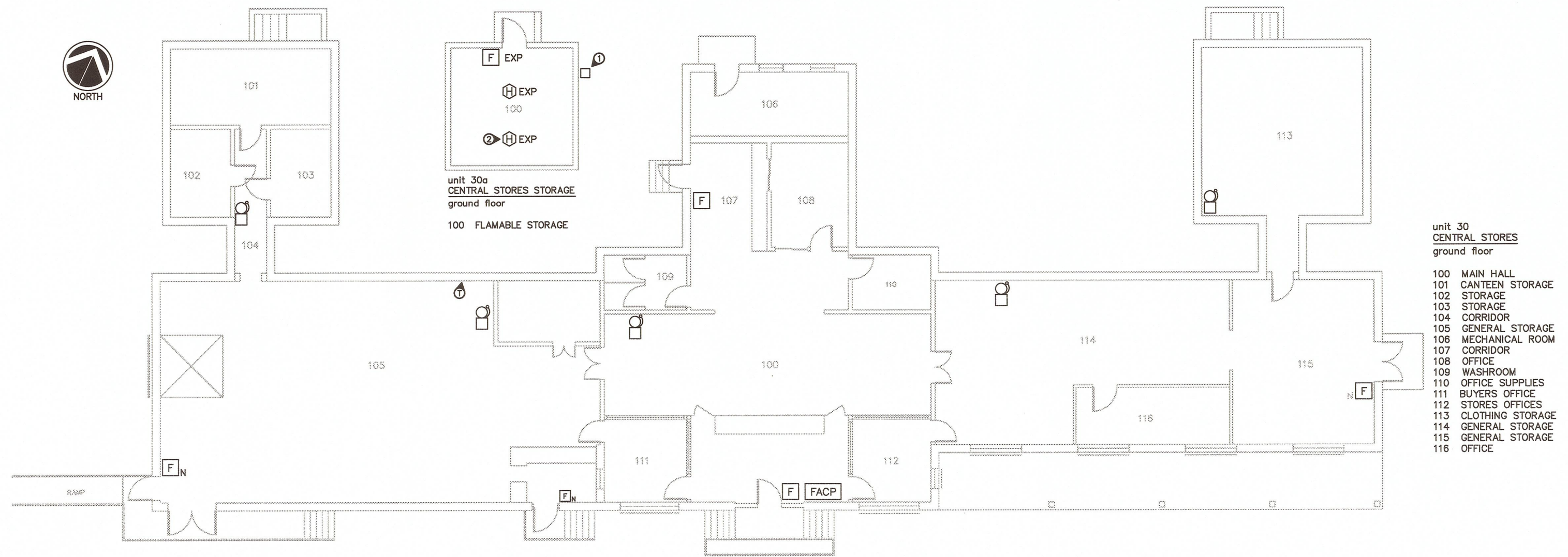
- DRAWING NOTES:**
- EXISTING SMOKE DETECTOR HAS A STEEL PROTECTIVE CAGE. PROVIDE A NEW CAGE IF THE NEW SMOKE DETECTOR IS NOT COMPATIBLE WITH THE EXISTING SIMPLEX CAGE.
 - EXISTING STAND-ALONE FIRE PUMP ANNUNCIATOR PANELS. NO CONNECTION TO THE FIRE ALARM SYSTEM. SHOWN FOR INFORMATION ONLY.
 - MAIN SYSTEM ANNUNCIATOR. ALL ALARMS, TROUBLES, ETC FOR THE ENTIRE INSTITUTION ARE ANNUNCIATED AND CONTROLLED AT THIS LOCATION.
 - BUILDING 104 ANNUNCIATOR. THIS ANNUNCIATOR IS CONSIDERED TO BE INDOORS AND DOES NOT REQUIRE THE SPECIFIED WEATHERPROOF ENCLOSURE.

- unit 104
 PRINCIPAL ENTRANCE
 ground floor
- 100 CONTROL POST
 - 101 VISITOR WAITING
 - 101a VESTIBULE
 - 102 PRINCIPAL CONTROL POST
 - 103 WASHROOM
 - 104 CORRIDOR
 - 105 ELECTRICAL ROOM
 - 106 B.F. WOMENS WASHROOM
 - 107 B.F. MENS WASHROOM
 - 108 SANITARY
 - 109 STAFF WASHROOM
 - 110 COFFEE ROOM
 - 111 TRAINING ROOM
 - 112 STORAGE ROOM
 - 113 VESTIBULE
 - 114 MECHANICAL ROOM
 - 115 INFORMATICS OFFICE
 - 116 STRIP/SEARCH
 - 117 CORRIDOR
 - 118 VESTIBULE
 - 119 INFORMATION STORAGE
 - 120 LAN ROOM
 - 121 STAIRS
 - 122 TELECOM EQUIPMENT
 - 123 CLOSET



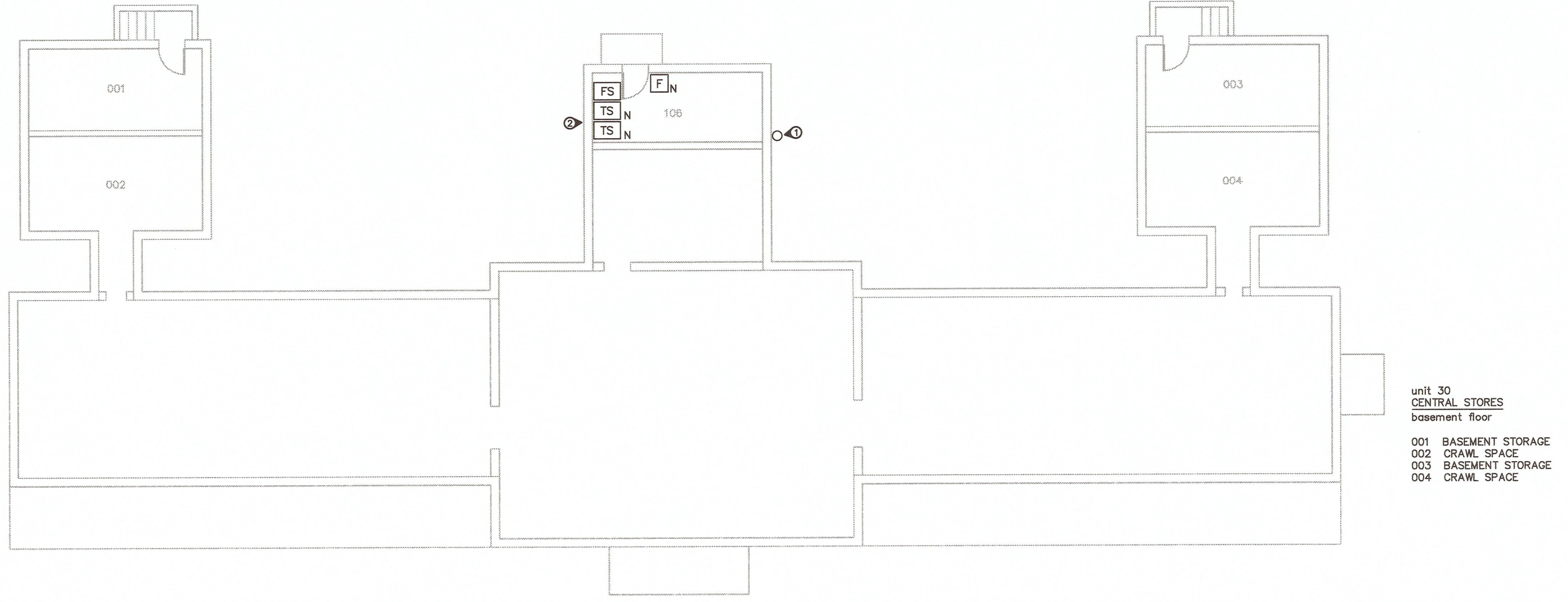
BLDG 104 - PRINCIPAL ENTRANCE UPPER FLOOR PLAN
 SCALE 1:100

- unit 104
 PRINCIPAL ENTRANCE
 upper floor
- 200 CONTRABAND STORAGE
 - 201 WORKSHOP
 - 202 ARMOURY
 - 203 MUNITIONS STORAGE
 - 204 MALE WASHROOM
 - 205 MALE LOCKER
 - 206 FEMALE LOCKER
 - 207 FEMALE WASHROOM
 - 208 EQUIPMENT STORAGE
 - 209 STORAGE
 - 210 MUSTER/BRIEFING ROOM
 - 211 CCD OFFICE
 - 212 OPS ASSISTANT



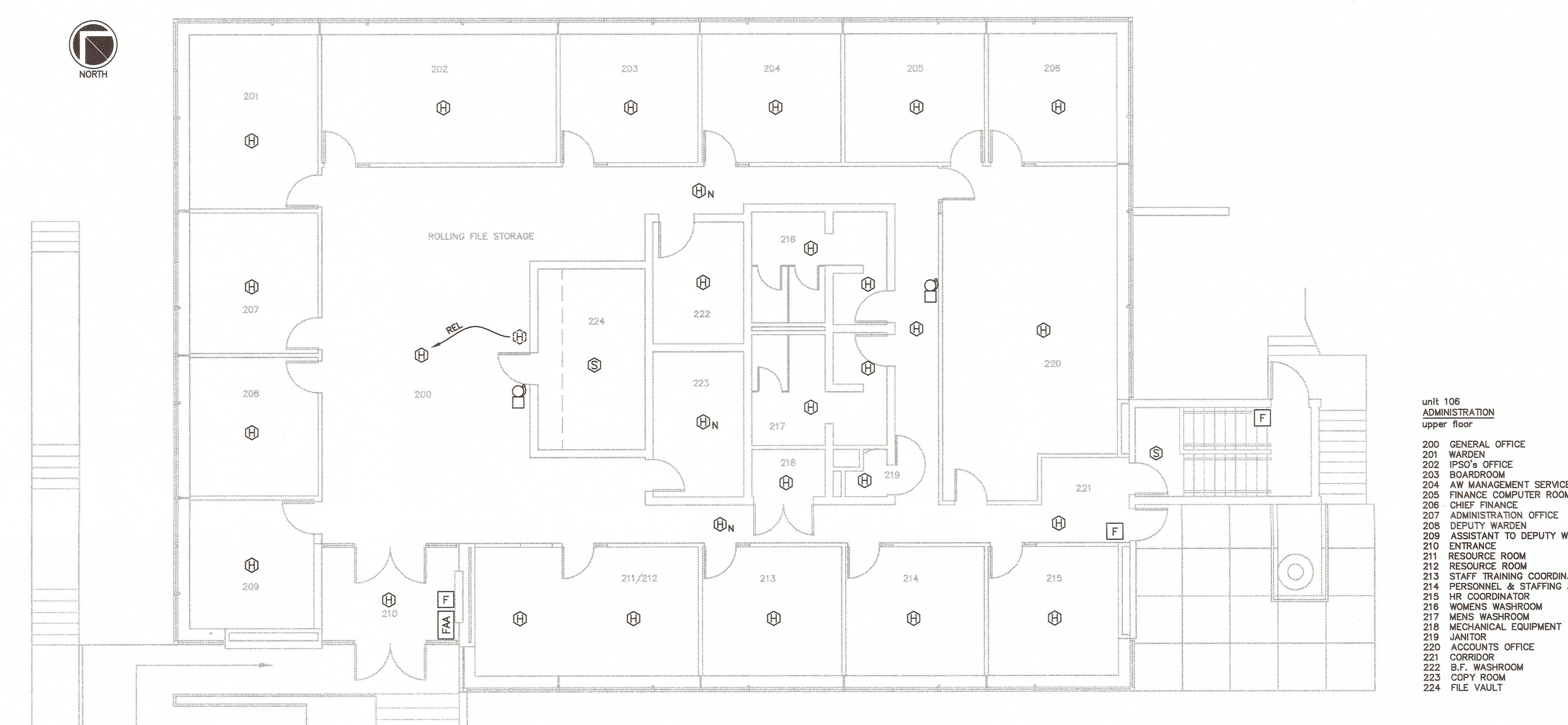
BLDGS 30 & 30a - CENTRAL STORES GROUND FLOOR PLAN
SCALE 1:150

DRAWING NOTES
1. EXISTING BOX FOR AERIAL COPPER CABLE FROM BUILDING 30. CABLE IS TRANSITIONED TO EXPLOSION PROOF WIRING INSIDE BLDG 30a. SEAL IS LOCATED ON THE OTHER SIDE OF THE WALL.
2. ALL WIRING WITHIN BLDG 30a IS CONTAINED WITHIN RIGID GALVANIZED STEEL CONDUIT. THE BUILDING WIRING IS EXPLOSION PROOF; BUILDING IS USED FOR FLAMMABLE STORAGE.



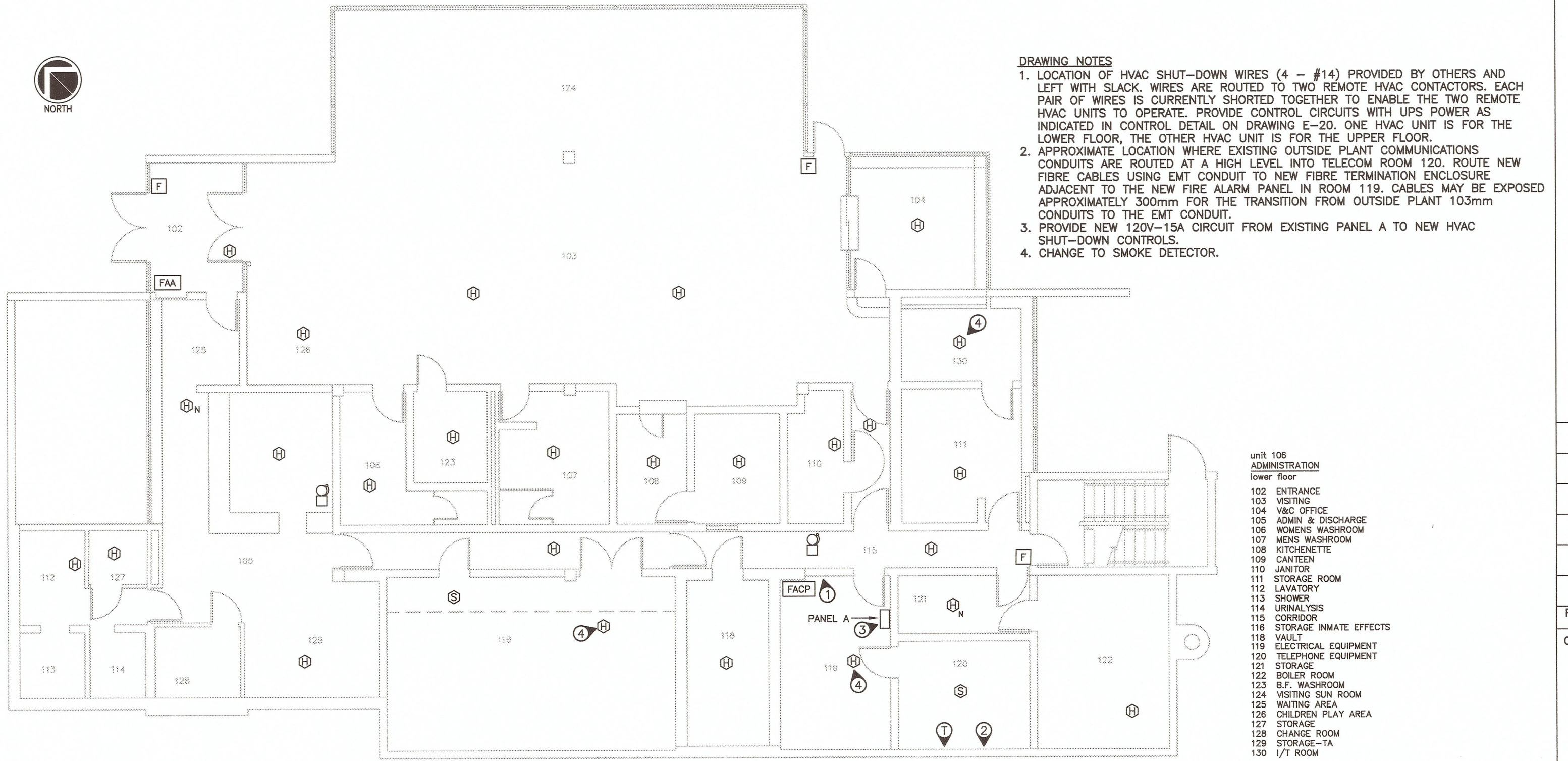
BLDG 30 - CENTRAL STORES BUILDING BASEMENT FLOOR PLAN
SCALE 1:150

DRAWING NOTES
1. CONDUIT FROM BUILDING 206 ROUTED UP WALL INTO ATTIC SPACE OF ROOM 106.
2. PROVIDE SUPERVISORY SWITCHES FOR TWO EXISTING 150mm OS&Y SPRINKLER VALVES; ALL WORK TO cUL AND NFPA13.



BLDG 106 - ADMINISTRATION UPPER FLOOR PLAN
SCALE 1:100

unit 106 ADMINISTRATION upper floor
200 GENERAL OFFICE
201 WARDEN
202 IPOA OFFICE
203 BOARDROOM
204 AM MANAGEMENT SERVICES
205 FINANCE COMPUTER ROOM
206 CHIEF FINANCE
207 ADMINISTRATION OFFICE
208 DEPUTY WARDEN
209 ASSISTANT TO DEPUTY WARDEN
210 ENTRANCE
211 RESOURCE ROOM
212 RESOURCE ROOM
213 STAFF TRAINING COORDINATOR
214 PERSONNEL & STAFFING ASST
215 HR COORDINATOR
216 WOMEN'S WASHROOM
217 MEN'S WASHROOM
218 MECHANICAL EQUIPMENT
219 JANITOR
220 ACCOUNTS OFFICE
221 CORRIDOR
222 B.F. WASHROOM
223 COPY ROOM
224 FILE VAULT



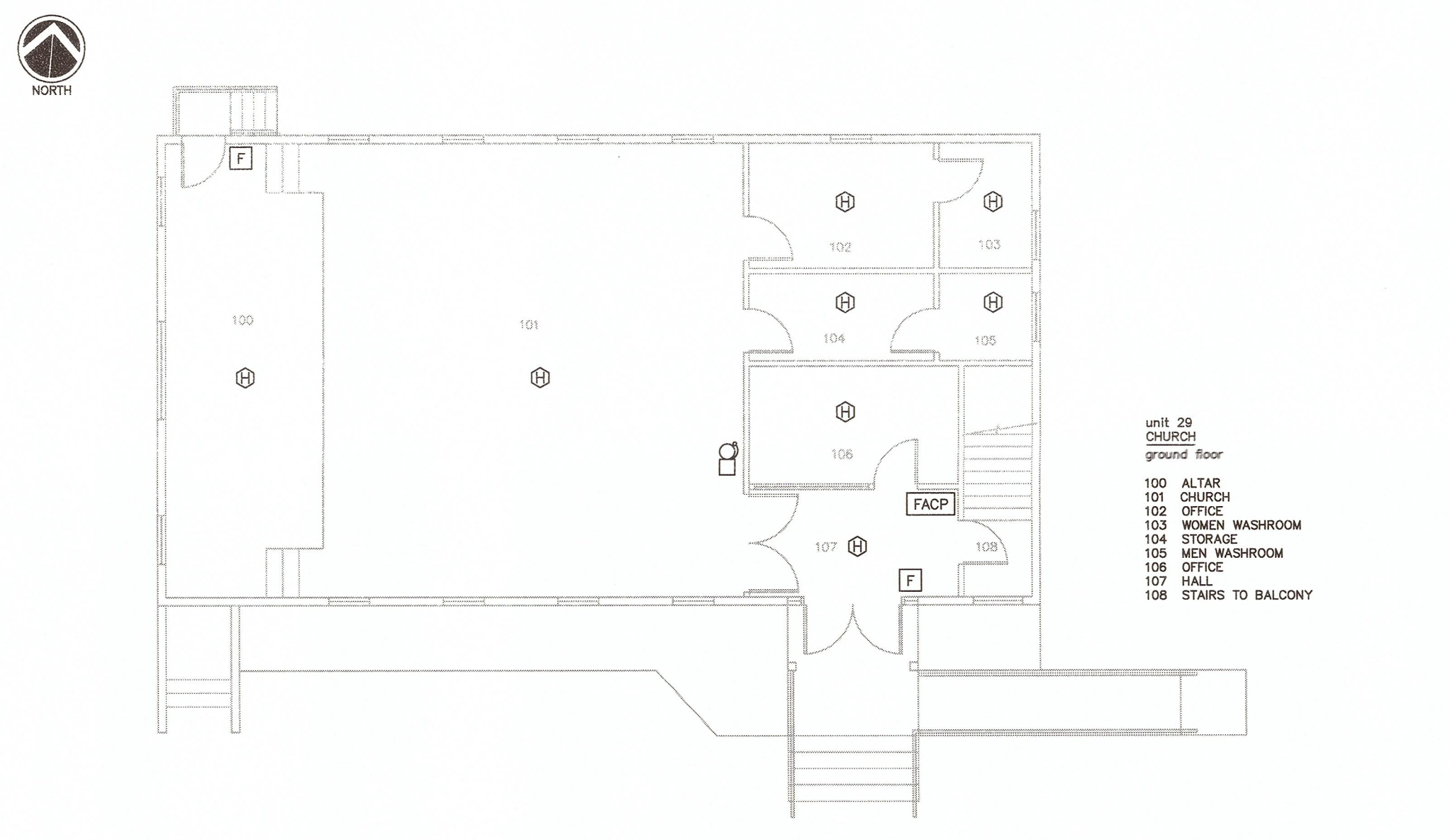
BLDG 106 - ADMINISTRATION BUILDING LOWER FLOOR PLAN
SCALE 1:100

DRAWING NOTES
1. LOCATION OF HVAC SHUT-DOWN WIRES (4 - #14) PROVIDED BY OTHERS AND LEFT WITH SLACK. WIRES ARE ROUTED TO TWO REMOTE HVAC CONTACTORS. EACH PAIR OF WIRES IS CURRENTLY SHORTED TOGETHER TO ENABLE THE TWO REMOTE HVAC UNITS TO OPERATE. PROVIDE CONTROL CIRCUITS WITH UPS POWER AS INDICATED IN CONTROL DETAIL ON DRAWING E-20. ONE HVAC UNIT IS FOR THE LOWER FLOOR, THE OTHER HVAC UNIT IS FOR THE UPPER FLOOR.
2. APPROXIMATE LOCATION WHERE EXISTING OUTSIDE PLANT COMMUNICATIONS CONDUITS ARE ROUTED AT A HIGH LEVEL INTO TELECOM ROOM 120. ROUTE NEW FIBRE CABLES USING EMT CONDUIT TO NEW FIBRE TERMINATION ENCLOSURE ADJACENT TO THE NEW FIRE ALARM PANEL IN ROOM 119. CABLES MAY BE EXPOSED APPROXIMATELY 300mm FOR THE TRANSITION FROM OUTSIDE PLANT 103mm CONDUITS TO THE EMT CONDUIT.
3. PROVIDE NEW 120V-15A CIRCUIT FROM EXISTING PANEL A TO NEW HVAC SHUT-DOWN CONTROLS.
4. CHANGE TO SMOKE DETECTOR.

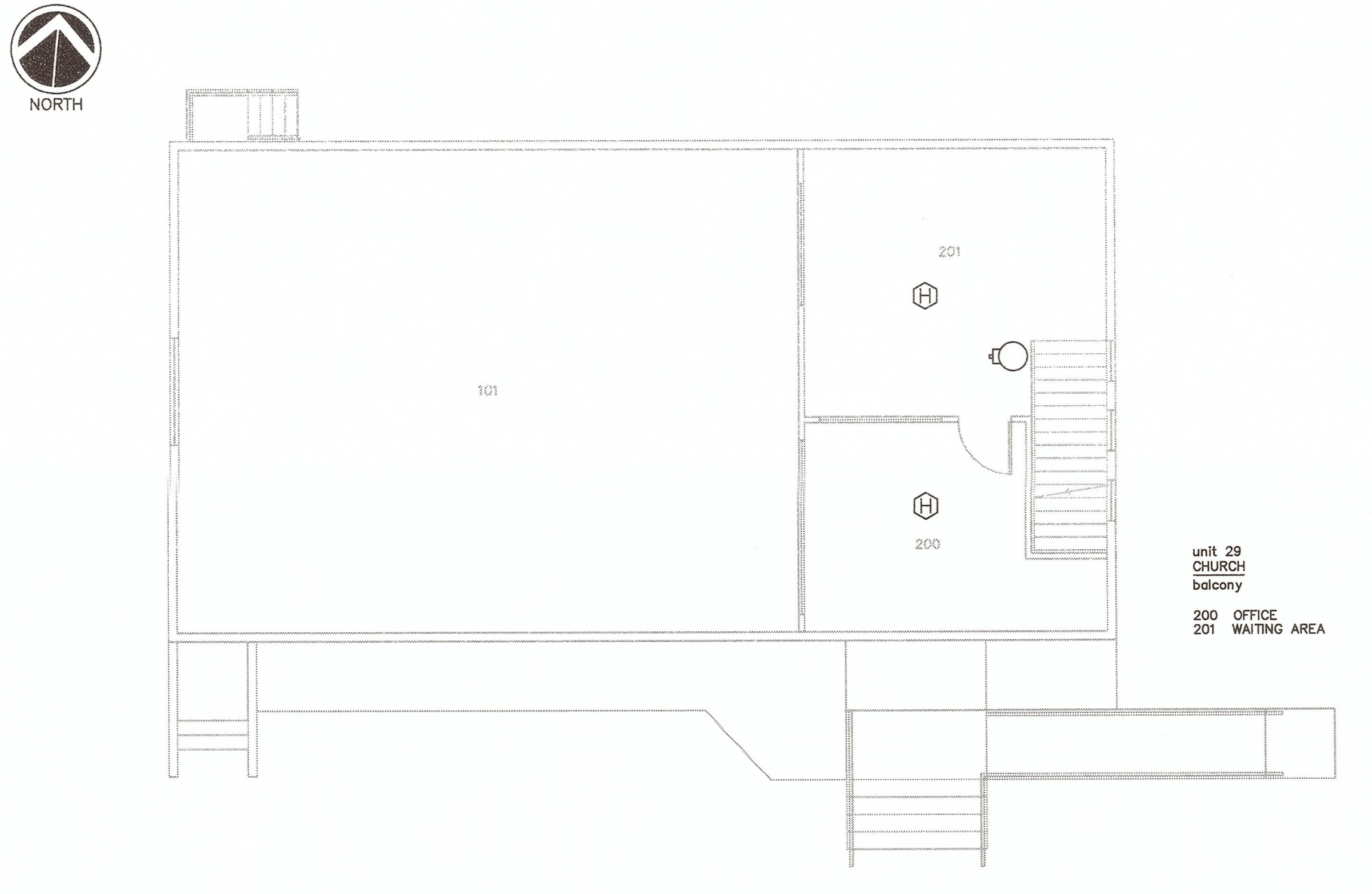


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4		
3	ISSUED FOR TENDER	31MAY2016
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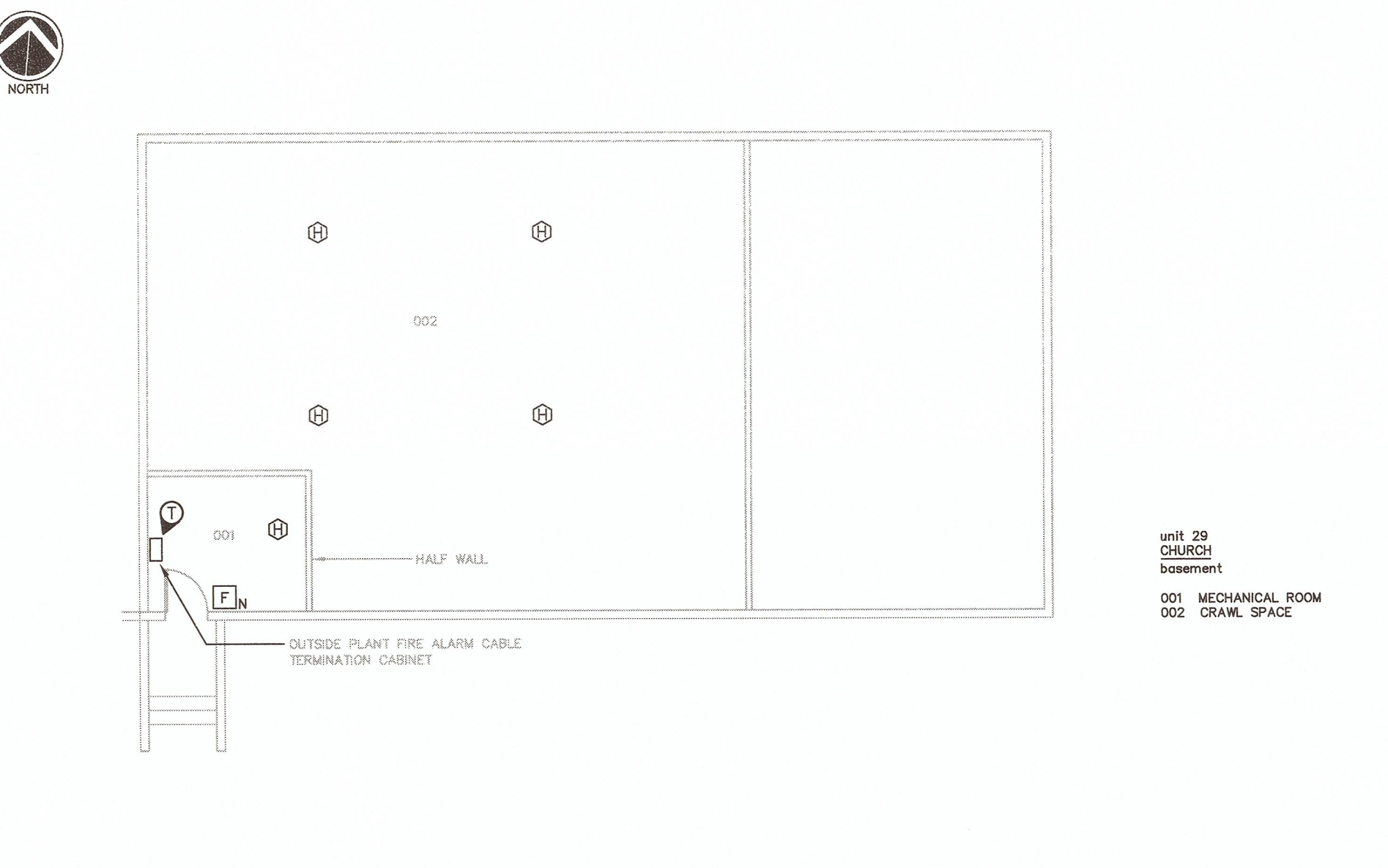
Client/client
CORRECTIONAL SERVICE CANADA
Project title/Titre du projet



BLDG 29 - CHURCH GROUND FLOOR PLAN
SCALE 1:100



BLDG 29 - CHURCH BALCONY FLOOR PLAN
SCALE 1:100



BLDG 29 - CHURCH BASEMENT FLOOR PLAN
SCALE 1:100

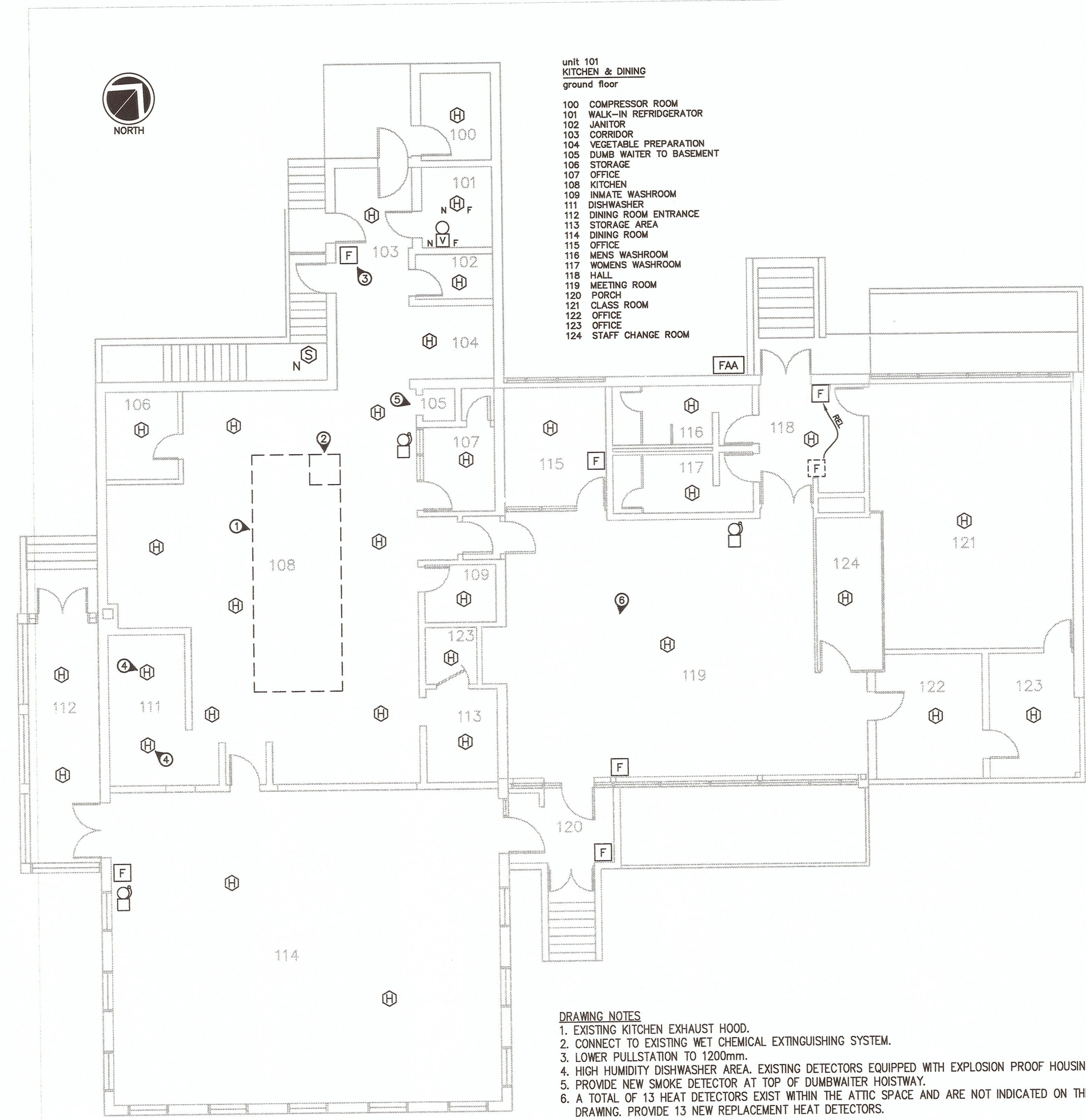
NOTES
1. DEVICES WITHIN THE BASEMENT ARE CURRENTLY WIRED WITH A MINERAL INSULATED STYLE OF CABLE. REMOVE THE MINERAL INSULATED CABLE AND REPLACE WITH ARMoured FIRE ALARM CABLE.

**WILLIAM HEAD INSTITUTION
FIRE ALARM
REPLACEMENT**

Consultant Signature Box Only
Designed by/Concept par
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Gestionnaire régionale, Services d'architectural et de génie, TPSCG
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Drawing title/Titre du dessin
**FIRE ALARM FLOOR PLANS
GROUP B**

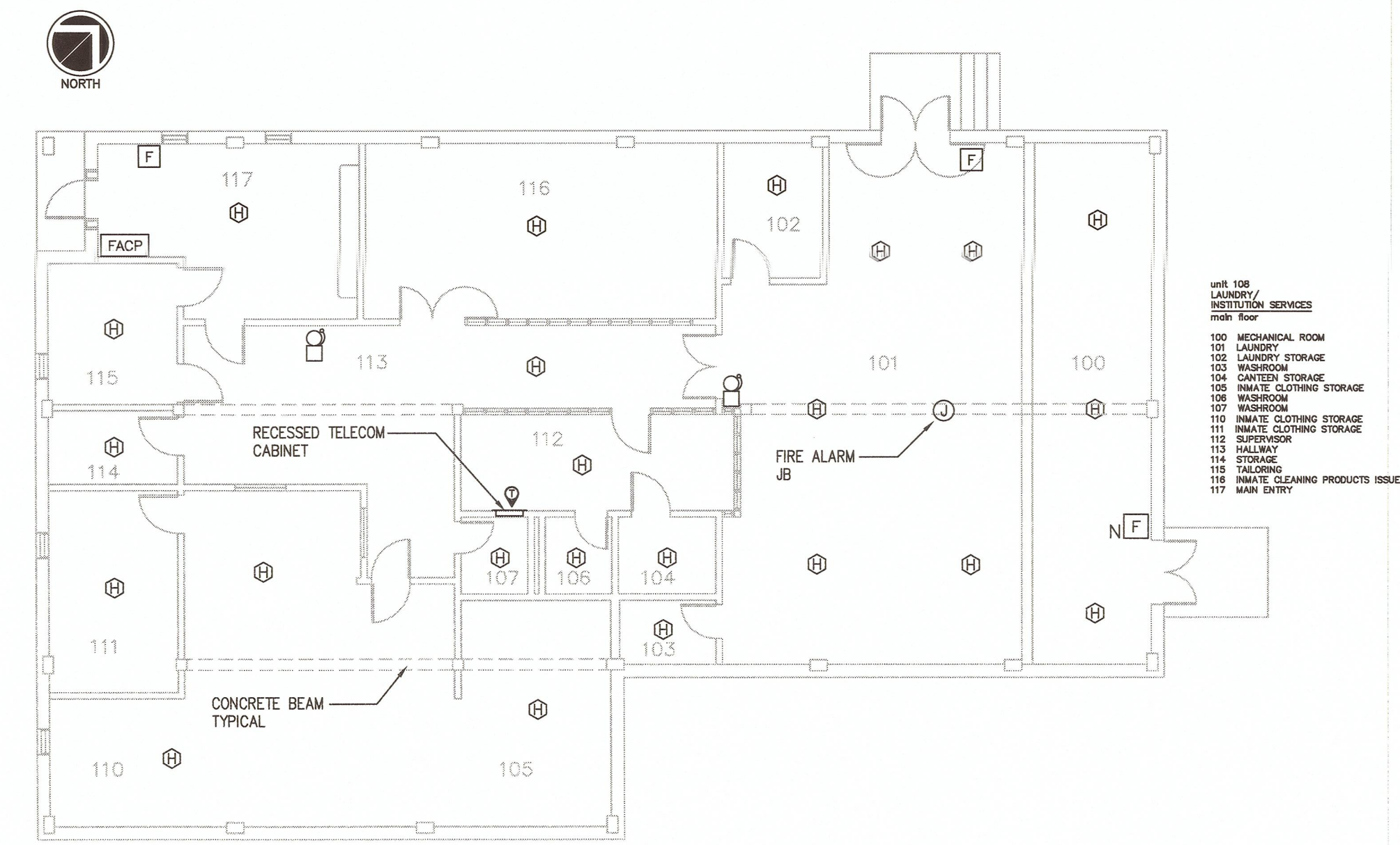
Project No./No. du projet	Sheet/Fauille	Revision no./ Lo. Revision
R.071314.001	E-07 OF 20	3



BLDG 101 - KITCHEN & DINING BUILDING GROUND FLOOR PLAN
SCALE 1:125



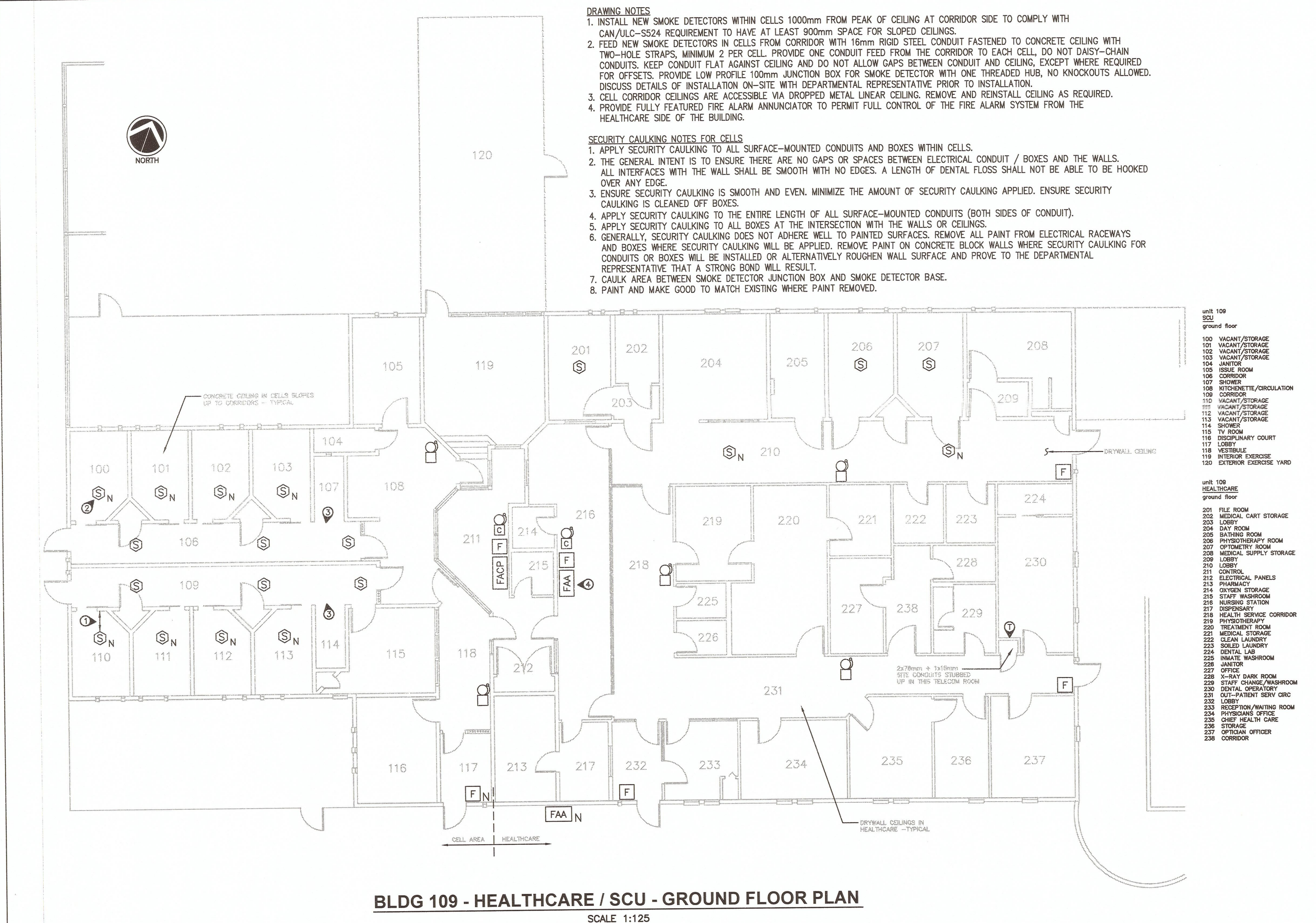
BLDG 101 - KITCHEN & DINING BASEMENT FLOOR PLAN
SCALE 1:125



BLDG 108 - LAUNDRY FLOOR PLAN
SCALE 1:125

DRAWING NOTES
1. FIRE ALARM PANEL FOR SITE NETWORK (HUB NODE).
2. REMOVE EXISTING FIRE ALARM PANEL FOR BLDG 103.
3. NEW LOCATION OF FIRE ALARM PANEL FOR BLDG 103.
4. REMOVE EXTRA BELL.
5. LOCATION OF EXISTING SIMPLEX DOOR MONITORING SYSTEM. THERE IS NO CONNECTION BETWEEN THIS SYSTEM (4100) AND THE FIRE ALARM SYSTEM. LEAVE THE SYSTEM AS-IS.

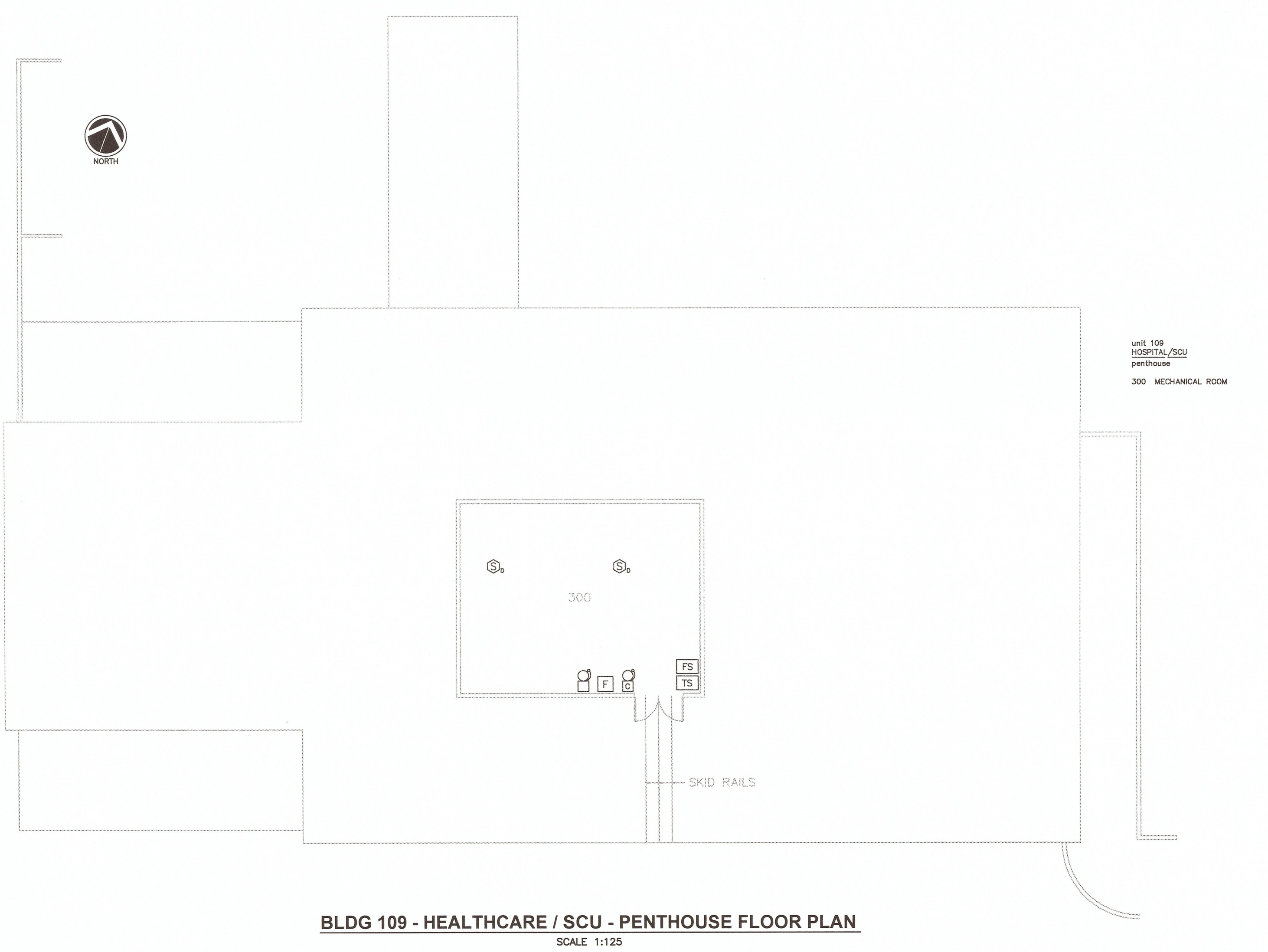
DRAWING NOTES
1. EXISTING HEAT DETECTOR AT BASE OF DUMBWATER.
2. RELOCATE PULLSTATION ACROSS CORRIDOR.
3. HEAT DETECTOR LOCATED ABOVE COOLER UNIT.
4. EXISTING FAN UNIT, 208V, 30A, 3 PHASE. PROVIDE FAN SHUTDOWN. REFER TO FAN SHUTDOWN DETAIL ON DRAWING E-20.
5. LOCATION OF NEW FAN SHUTDOWN CONTROLS.



BLDG 109 - HEALTHCARE / SCU - GROUND FLOOR PLAN
SCALE 1:125

DRAWING NOTES
1. INSTALL NEW SMOKE DETECTORS WITHIN CELLS 1000mm FROM PEAK OF CEILING AT CORRIDOR SIDE TO COMPLY WITH CAN/ULC-S524 REQUIREMENT TO HAVE AT LEAST 900mm SPACE FOR SLOPED CEILINGS.
2. FEED NEW SMOKE DETECTORS IN CELLS FROM CORRIDOR WITH 16mm RIGID STEEL CONDUIT FASTENED TO CONCRETE CEILING WITH TWO-HOLE STRAPS, MINIMUM 2 PER CELL. PROVIDE ONE CONDUIT FEED FROM THE CORRIDOR TO EACH CELL. DO NOT DASH-CHAIN CONDUITS. KEEP CONDUIT FLAT AGAINST CEILING AND DO NOT ALLOW GAPS BETWEEN CONDUIT AND CEILING, EXCEPT WHERE REQUIRED FOR OFFSETS. PROVIDE LOW PROFILE 100mm JUNCTION BOX FOR SMOKE DETECTOR WITH ONE THREADED HUB, NO KNOCKOUTS ALLOWED. DISCUSS DETAILS OF INSTALLATION ON-SITE WITH DEPARTMENTAL REPRESENTATIVE PRIOR TO INSTALLATION.
3. CELL CORRIDOR CEILINGS ARE ACCESSIBLE VIA DROPPED METAL LINEAR CEILING. REMOVE AND REINSTALL CEILING AS REQUIRED.
4. PROVIDE FULLY FEATURED FIRE ALARM ANNUNCIATOR TO PERMIT FULL CONTROL OF THE FIRE ALARM SYSTEM FROM THE HEALTHCARE SIDE OF THE BUILDING.

SECURITY CAULKING NOTES FOR CELLS
1. APPLY SECURITY CAULKING TO ALL SURFACE-MOUNTED CONDUITS AND BOXES WITHIN CELLS.
2. THE GENERAL INTENT IS TO ENSURE THERE ARE NO GAPS OR SPACES BETWEEN ELECTRICAL CONDUIT / BOXES AND THE WALLS. ALL INTERFACES WITH THE WALL SHALL BE SMOOTH WITH NO EDGES. A LENGTH OF DENTAL FLOSS SHALL NOT BE ABLE TO BE HOOKED OVER ANY EDGE.
3. ENSURE SECURITY CAULKING IS SMOOTH AND EVEN. MINIMIZE THE AMOUNT OF SECURITY CAULKING APPLIED. ENSURE SECURITY CAULKING IS CLEANED OFF BOXES.
4. APPLY SECURITY CAULKING TO THE ENTIRE LENGTH OF ALL SURFACE-MOUNTED CONDUITS (BOTH SIDES OF CONDUIT).
5. APPLY SECURITY CAULKING TO ALL BOXES AT THE INTERSECTION WITH THE WALLS OR CEILINGS.
6. GENERALLY, SECURITY CAULKING DOES NOT ADHERE WELL TO PAINTED SURFACES. REMOVE ALL PAINT FROM ELECTRICAL RACEWAYS AND BOXES WHERE SECURITY CAULKING WILL BE APPLIED. REMOVE PAINT ON CONCRETE BLOCK WALLS WHERE SECURITY CAULKING FOR CONDUITS OR BOXES WILL BE INSTALLED OR ALTERNATIVELY ROUGHEN WALL SURFACE AND PROVE TO THE DEPARTMENTAL REPRESENTATIVE THAT A STRONG BOND WILL RESULT.
7. CAULK AREA BETWEEN SMOKE DETECTOR JUNCTION BOX AND SMOKE DETECTOR BASE.
8. PAINT AND MAKE GOOD TO MATCH EXISTING WHERE PAINT REMOVED.



BLDG 109 - HEALTHCARE / SCU - PENTHOUSE FLOOR PLAN
SCALE 1:125

NOTES
1. ALLOW FOR THE REPLACEMENT OF 8 DUCT SMOKE DETECTORS.
2. THERE ARE A NUMBER OF CHIMES IN THE PENTHOUSE AND GROUND FLOOR. THE CHIMES ARE CURRENTLY USED FOR FIRST STAGE ALERTS. REPLACE CHIMES ON GROUND FLOOR WITH AUDIBLE/VISUAL APPLIANCES. REMOVE CHIME IN PENTHOUSE. NOTE REQUIREMENT FOR DUAL AUDIBLE ANNUNCIATION FOR TWO-STAGE SYSTEM AS REFERENCED IN THE SPECIFICATION.

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5		
4		
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CORRECTIONAL SERVICE CANADA

**WILLIAM HEAD INSTITUTION
FIRE ALARM
REPLACEMENT**

Consultant Signature Box Only

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Drawing Title/Titre du dessin

**FIRE ALARM FLOOR PLANS
GROUP D**

Project No./No. du projet

R.071314.001

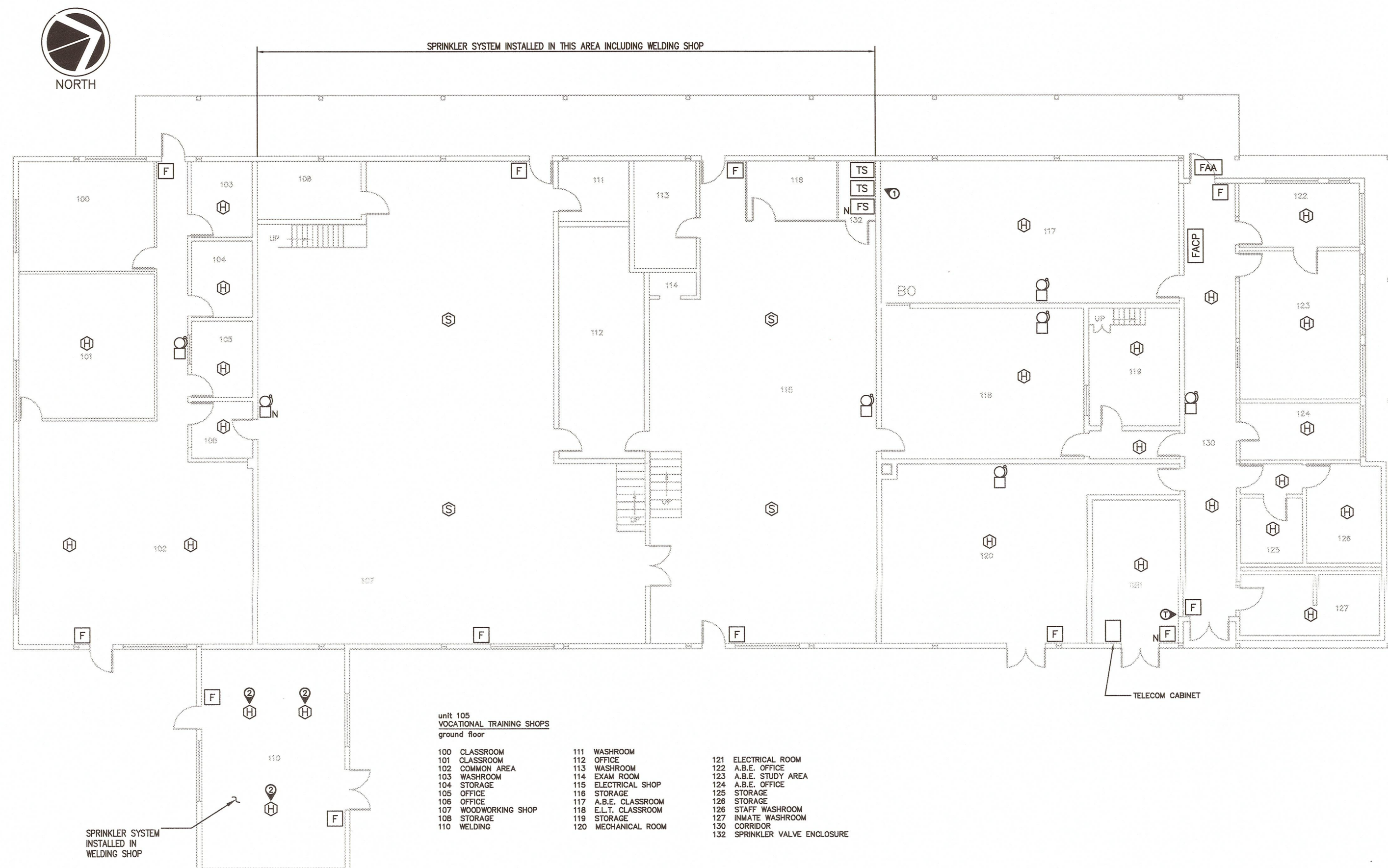
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OF 20

Revision no./
La Révision no.

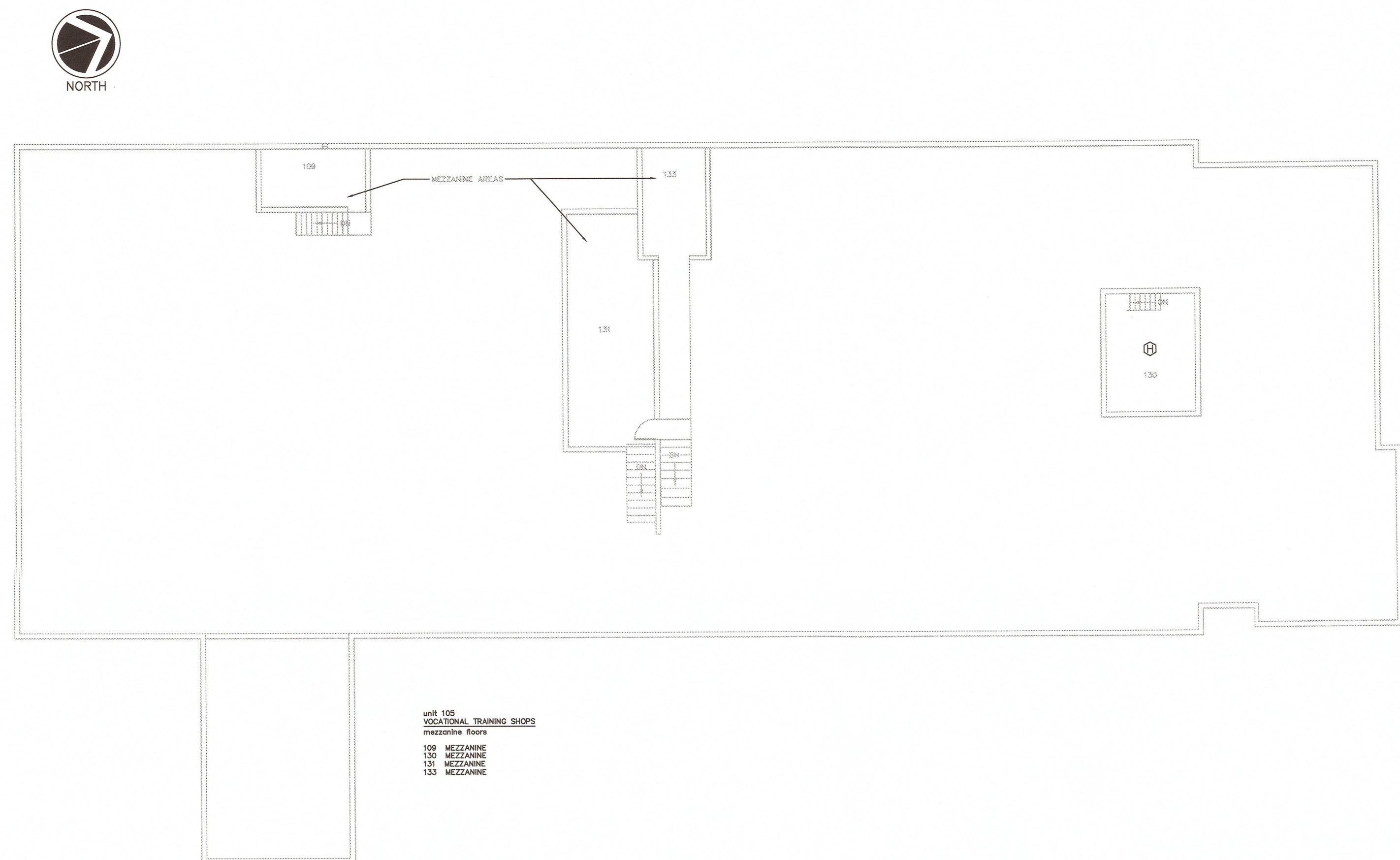
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BLDG 105 - VOCATIONAL TRAINING SHOPS GROUND FLOOR PLAN
 SCALE 1:150

DRAWING NOTES:
 1. REPLACE EXISTING 150mm SPRINKLER VALVES WITH NEW OS&Y VALVES COMPLETE WITH SUPERVISORY SWITCHES. REMOVE TWO EXISTING CABLE-LOOP SUPERVISORY SWITCHES. INSTALL NEW SPRINKLER FLOW SWITCH. ALL WORK TO cUL and NFPA 13.
 2. REMOVE HEAT DETECTORS.

NOTES:
 1. ROUTE CABLE FOR BUILDING 208 THROUGH BUILDING 105 ELECTRICAL ROOM WITH NO SPLICES.



BLDG 105 - VOCATIONAL TRAINING SHOPS MEZZANINE FLOOR PLAN
 SCALE 1:150



Revision/Revision	Description/Description	Date/Date
5		
4		
3	ISSUED FOR TENDER	31MAY2016
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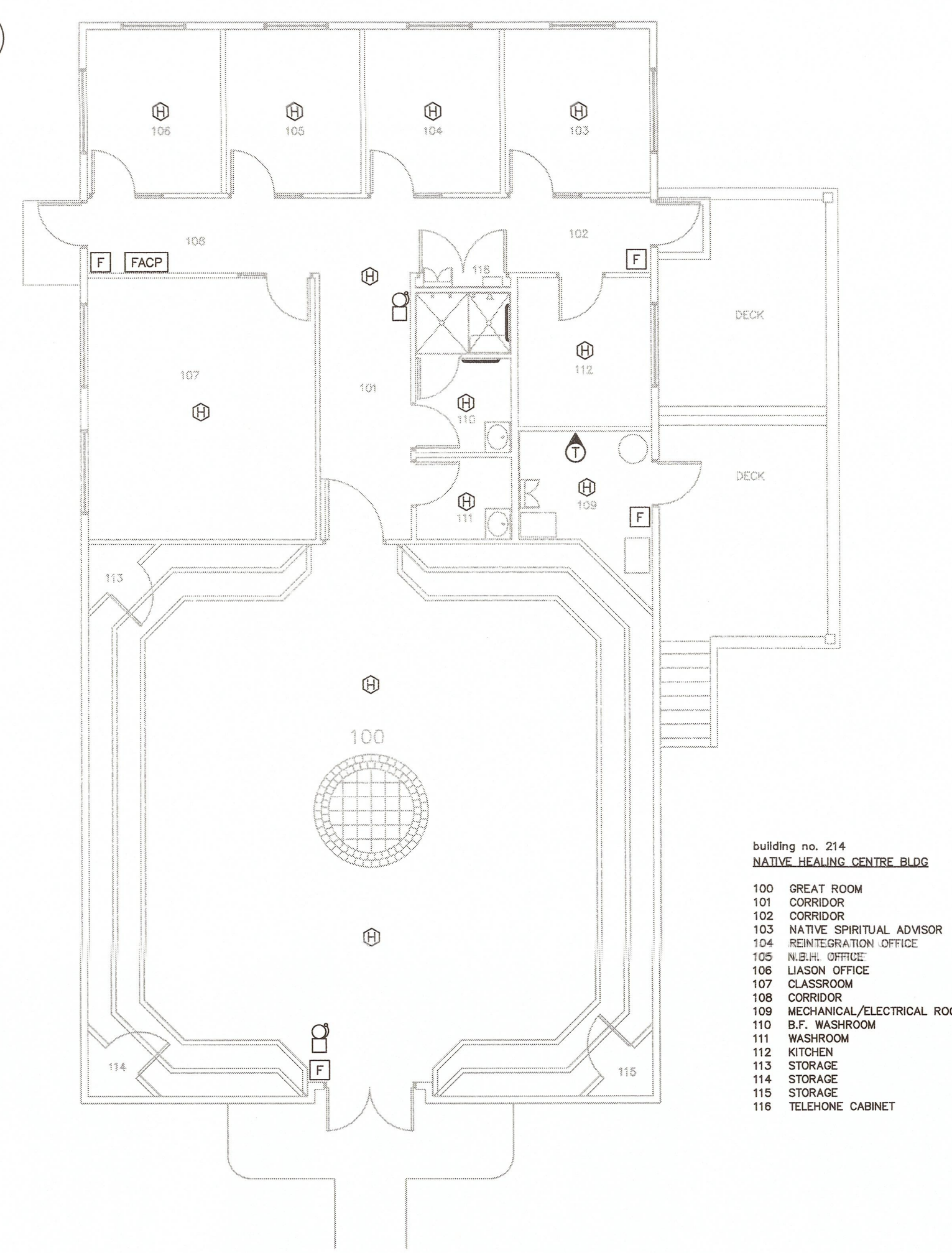
Client/client
CORRECTIONAL SERVICE CANADA

Project title/Titre du projet
**WILLIAM HEAD INSTITUTION
 FIRE ALARM
 REPLACEMENT**

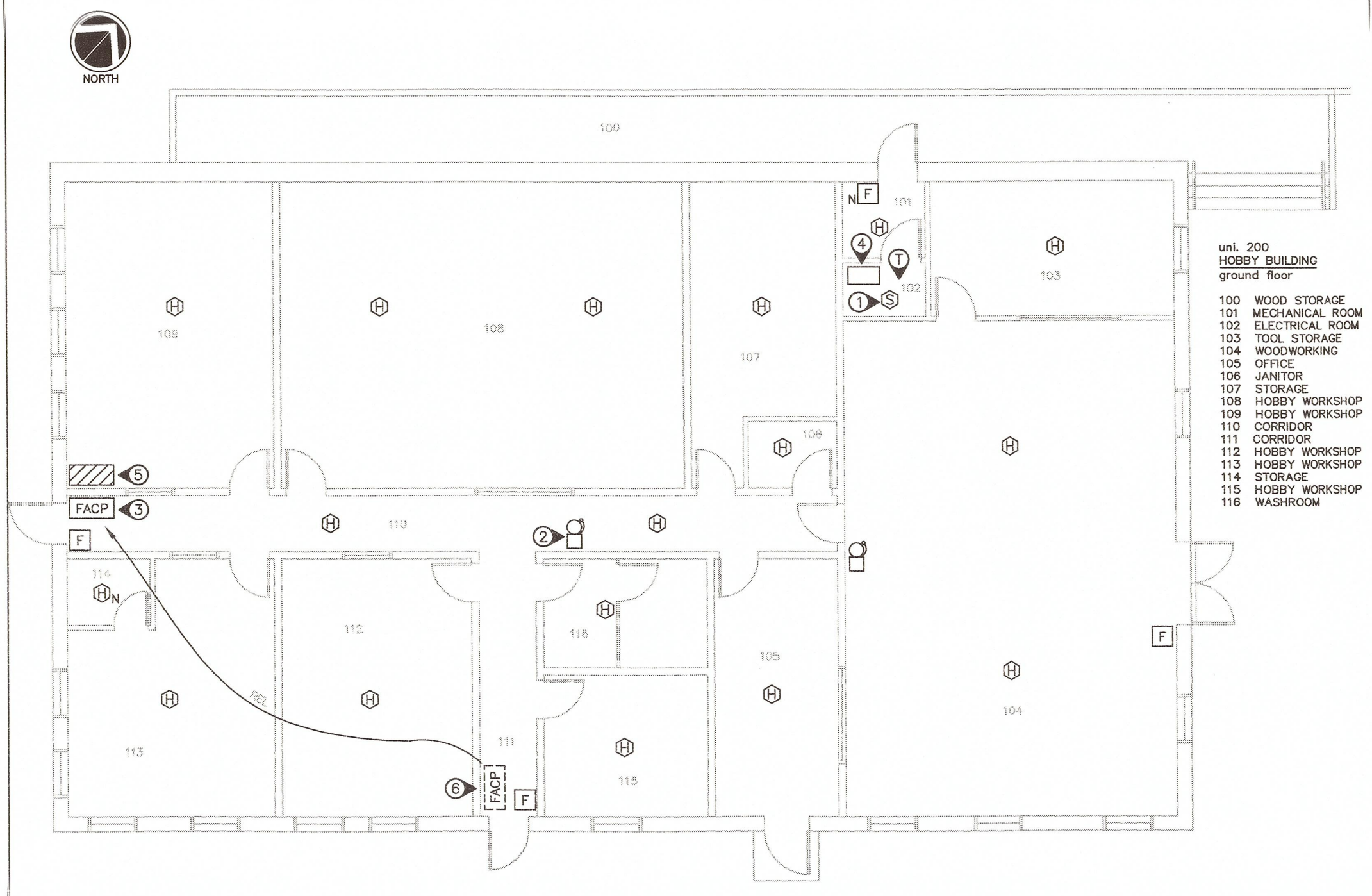
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 Designed by/Concept par
 Greg Robertshaw
 Drawn by/Dessiné par
 Steve Banfield
 PWGSC Project Manager/Administrateur de Projets TPSGC
 P. Truong
 PWGSC, Regional Manager, Architectural and Engineering Services/
 Gestionnaire régionale, Services d'architecture et de génie, TPSGC
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Drawing Title/Titre du dessin
**FIRE ALARM FLOOR PLANS
 GROUP E**

Project No./No. du projet R.071314.001	Sheet/Feuille E-10 OF 20	Revision no./ La Révision no. 3
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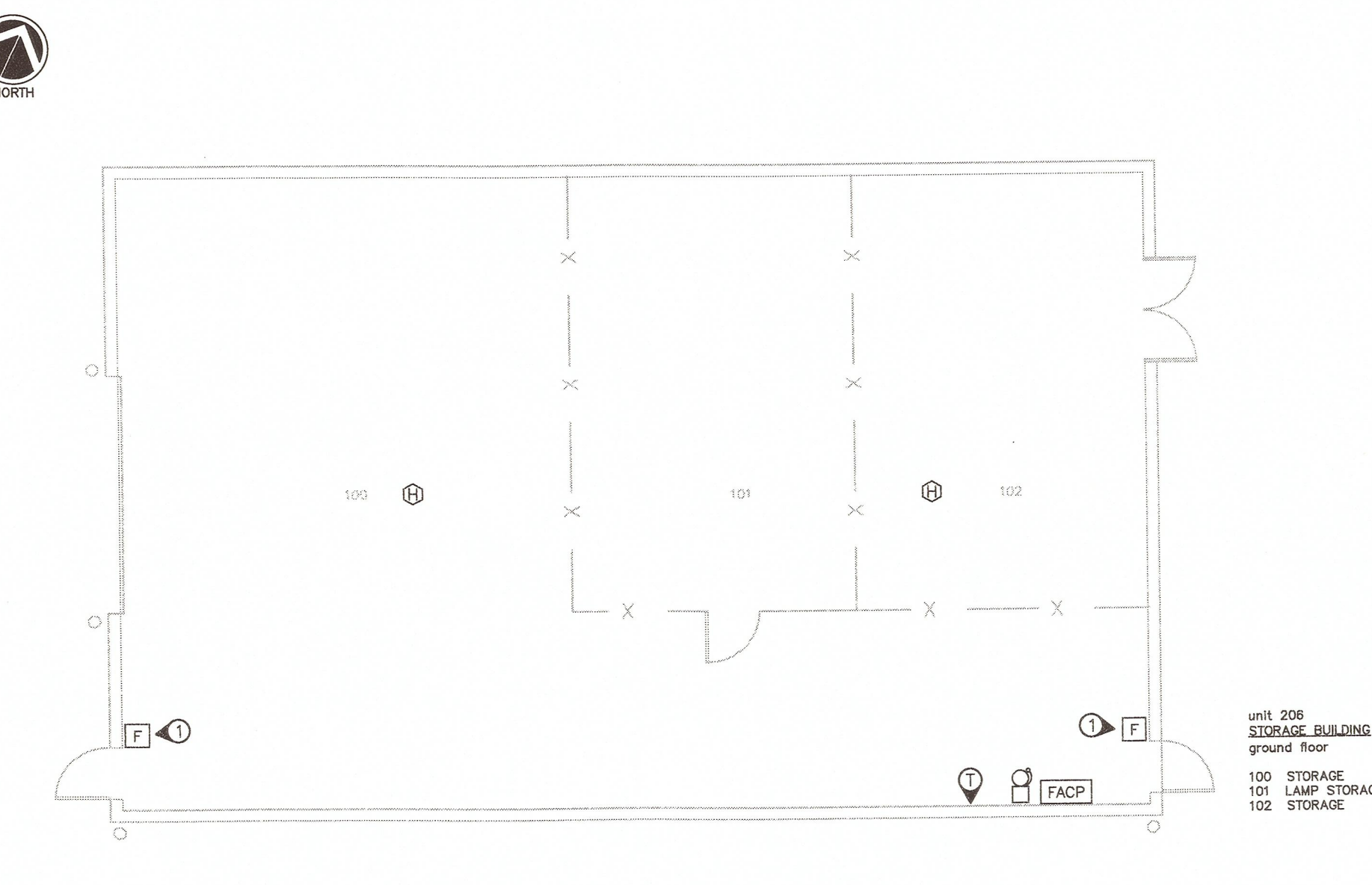


BLDG 214 - NATIVE HEALING CENTRE FLOOR PLAN
 SCALE 1:100



BLDG 200 - HOBBY FLOOR PLAN
 SCALE 1:100

DRAWING NOTES:
 1. CHANGE TO HEAT DETECTOR.
 2. REPLACE EXISTING CAGE OVER BELL.
 3. NEW PANEL FLUSH-MOUNTED IN CORRIDOR.
 4. TELECOM CABINET WITH 2 x 27mm CONDUITS TO BUILDING 103:
 CONDUIT A - CABLE #54-12PR TEL
 CONDUIT B - CABLE #47-CATV, CABLE #50-BPR PA
 INSTALL FIBRE OPTIC TERMINATION ENCLOSURE IN THIS ROOM. PROVIDE 35mm EMT CONDUIT FOR FIBRE OPTIC CABLE TO NEW FIRE ALARM PANEL LOCATION.
 5. FRAME OUT WALL BEHIND NEW FIRE ALARM PANEL TO ACCOMMODATE DEPTH OF NEW PANEL AND ENSURE THE FIRE ALARM PANEL FACE IS FLUSH MOUNTED IN CORRIDOR 110. FRAME ENTIRE HEIGHT OF WALL TO CEILING. MATCH EXISTING FRAMING METHOD. PROVIDE DRYWALL AND PAINT TO MATCH EXISTING. PERFORM ALL WORK IN ACCORDANCE WITH THE NATIONAL BUILDING CODE OF CANADA.
 6. REMOVE COVER AND CONTENTS OF EXISTING FLUSH-MOUNTED EDWARDS 6601 FIRE ALARM PANEL. USE AS A JUNCTION BOX. PROVIDE CUSTOM ALUMINUM BLANK COVER PLATE. PROVIDE LAMICOID LABEL "FIRE ALARM JUNCTION BOX".

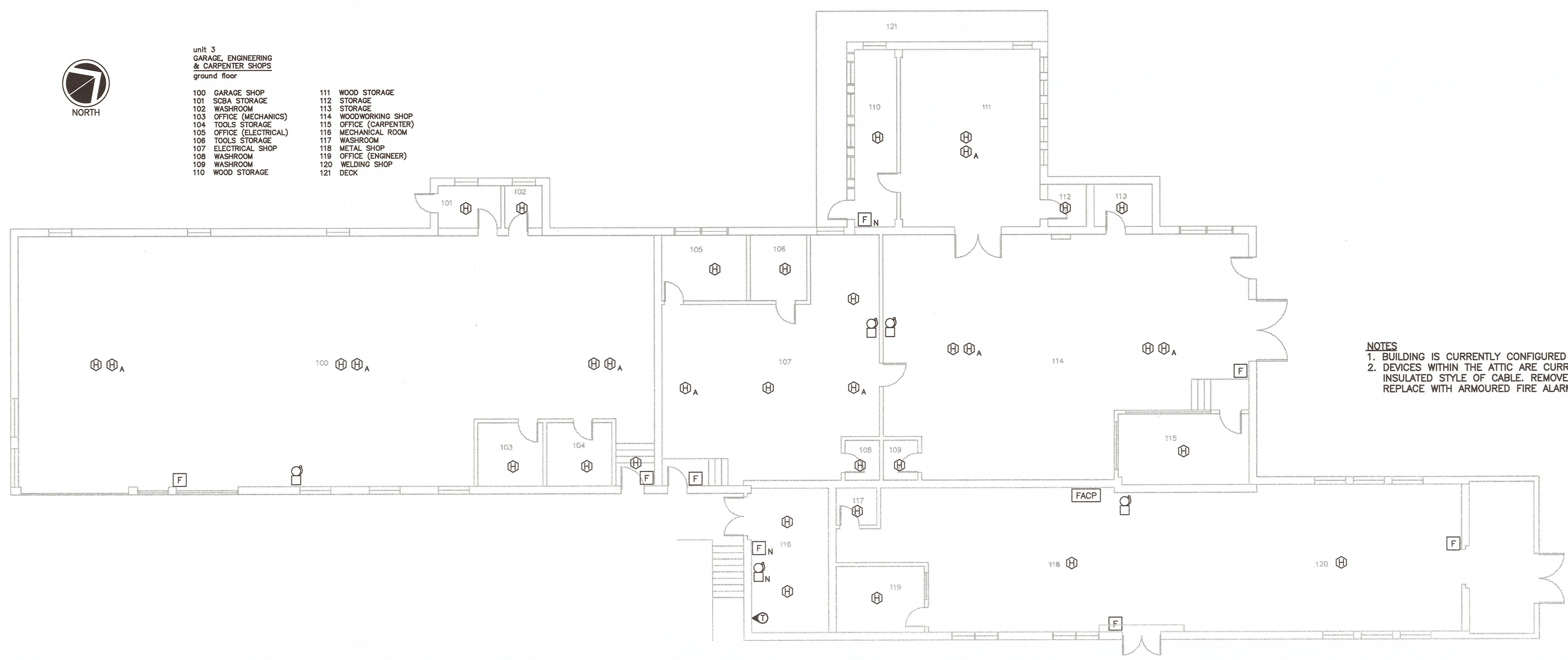


BLDG 206 - STORAGE FLOOR PLAN
 SCALE 1:100

DRAWING NOTES:
 1. LOWER PULLSTATION TO 1200mm HEIGHT.

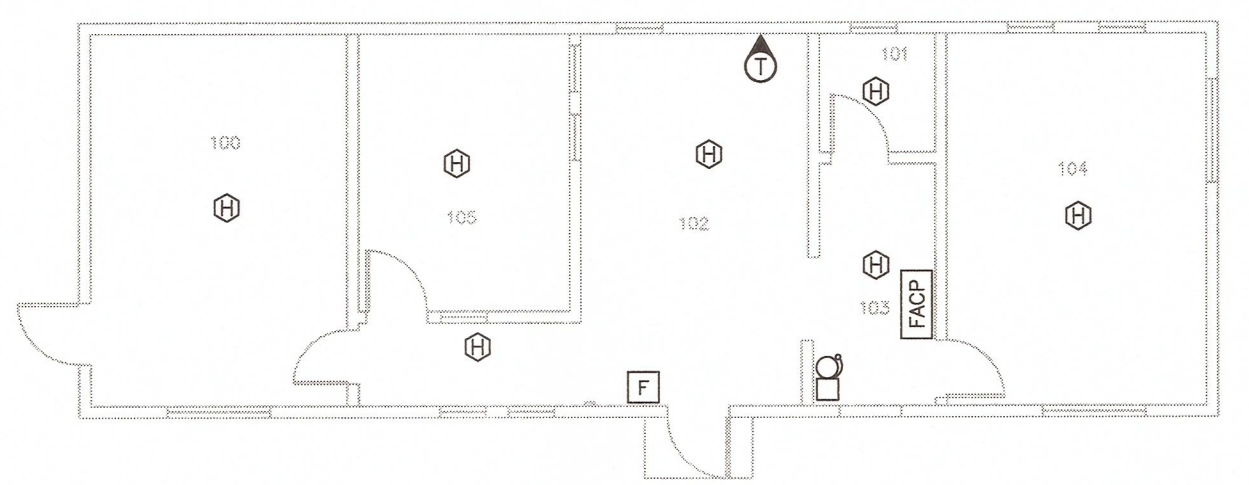


- unit 3 GARAGE, ENGINEERING & CARPENTRY SHOPS ground floor**
- 100 GARAGE SHOP
 - 101 SSA STORAGE
 - 102 WASHROOM
 - 103 OFFICE (MECHANICS)
 - 104 TOOLS STORAGE
 - 105 OFFICE (ELECTRICAL)
 - 106 TOOLS STORAGE
 - 107 ELECTRICAL SHOP
 - 108 WASHROOM
 - 109 WASHROOM
 - 110 WOOD STORAGE
 - 111 WOOD STORAGE
 - 112 STORAGE
 - 113 WOODWORKING SHOP
 - 114 WOODWORKING SHOP
 - 115 OFFICE (CARPENTER)
 - 116 MECHANICAL ROOM
 - 117 WASHROOM
 - 118 METAL SHOP
 - 119 OFFICE (ENGINEER)
 - 120 MELTING SHOP
 - 121 DECK



NOTES
 1. BUILDING IS CURRENTLY CONFIGURED AS A SINGLE FIRE ALARM ZONE.
 2. DEVICES WITHIN THE ATTIC ARE CURRENTLY WIRED WITH A MINERAL INSULATED STYLE OF CABLE. REMOVE THE MINERAL INSULATED CABLE AND REPLACE WITH ARMoured FIRE ALARM CABLE.

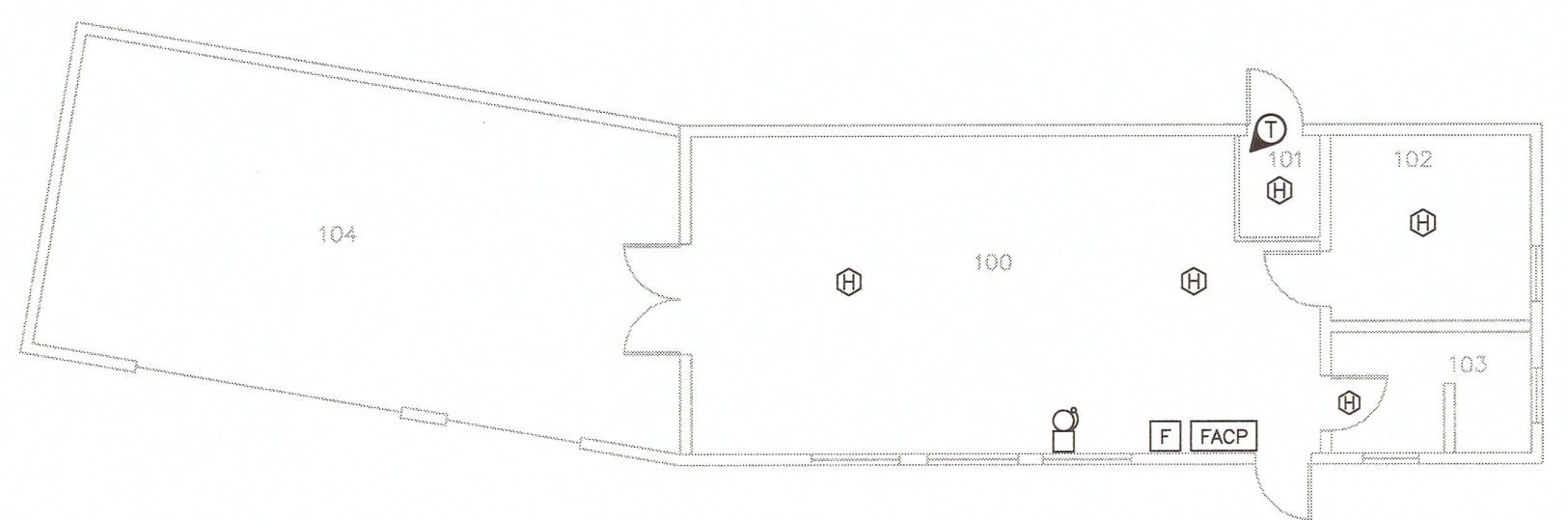
BLDG 3 - GARAGE, ENGINEERING & CARPENTRY SHOPS FLOOR PLAN
 SCALE 1:125



- unit B CHIEF MAINTENANCE SERVICES ground floor**
- 100 OFFICE
 - 101 WASHROOM
 - 102 OFFICE
 - 103 CORRIDOR
 - 104 OFFICE
 - 105 OFFICE

BLDG B - CHIEF MAINTENANCE SERVICES FLOOR PLAN
 SCALE 1:100

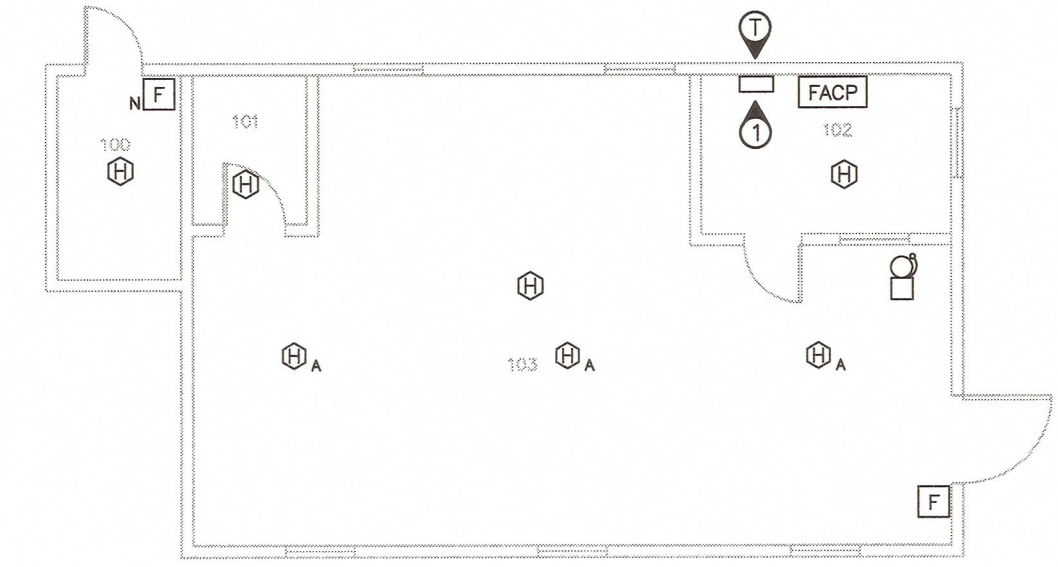
NOTES:
 1. LEAVE FIRE ALARM SYSTEM WITHIN BUILDING B AS-IS. CONNECT TO PANEL IN BUILDING 3 AS A SEPARATE ZONE.



- unit D PAINT SHOP ground floor**
- 100 PAINT SHOP
 - 101 MECHANICAL ROOM
 - 102 OFFICE/STORAGE
 - 103 WASHROOM & SHOWER
 - 104 LOADING AREA/STORAGE

BLDG D - PAINT SHOP FLOOR PLAN
 SCALE 1:100

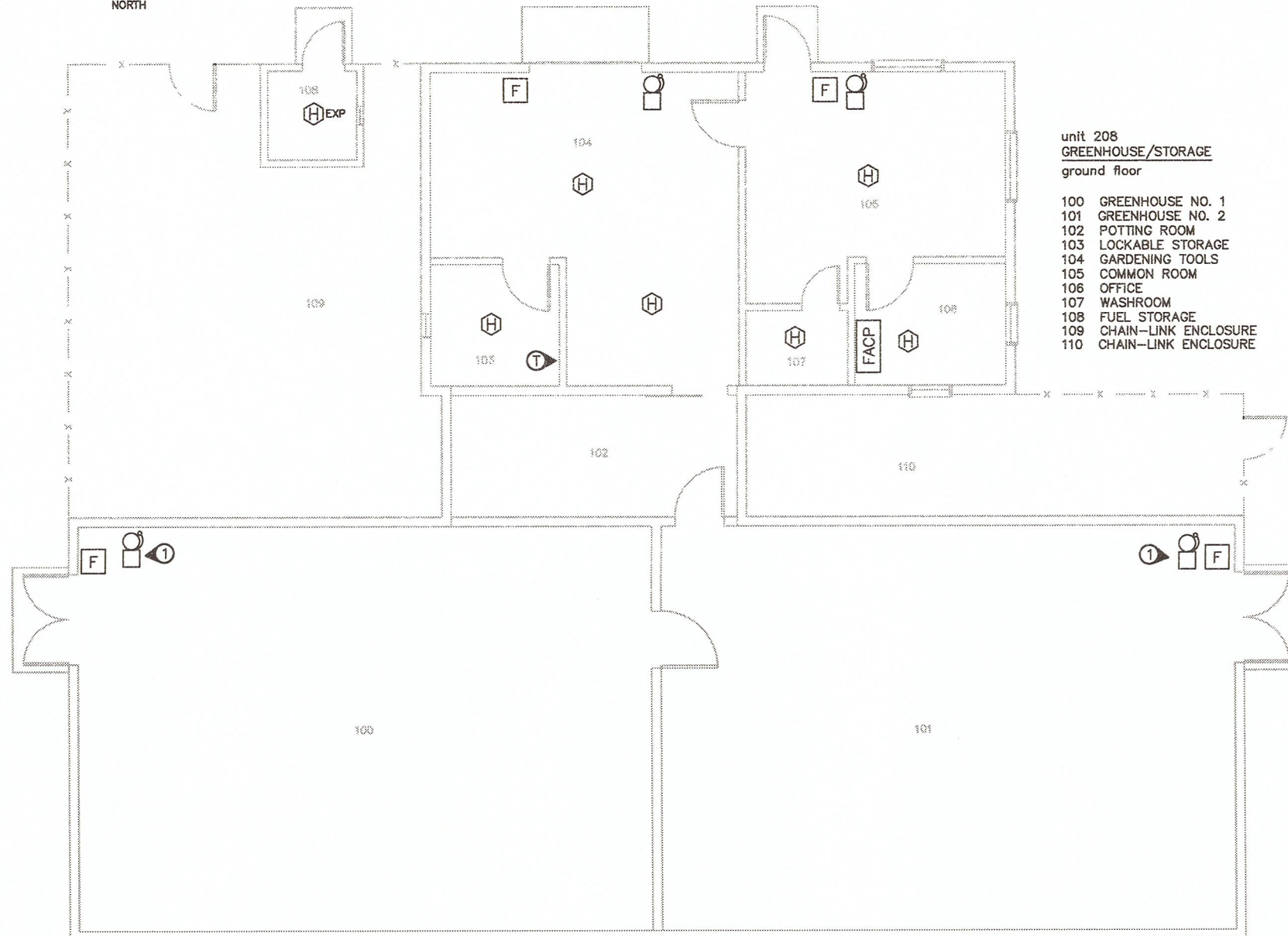
NOTES:
 1. LEAVE FIRE ALARM SYSTEM WITHIN BUILDING D AS-IS. CONNECT TO PANEL IN BUILDING 3 AS A SEPARATE ZONE.



- unit 4 PLUMBER'S SHOP ground floor**
- 100 MECHANICAL ROOM
 - 101 WASHROOM
 - 102 OFFICE
 - 103 PLUMBER'S SHOP

BLDG 4 - PLUMBERS SHOP FLOOR PLAN
 SCALE 1:100

DRAWING NOTES:
 1. EXISTING SURFACE WALL-MOUNTED COMMUNICATIONS ENCLOSURE.



- unit 208 GREENHOUSE/STORAGE ground floor**
- 100 GREENHOUSE NO. 1
 - 101 GREENHOUSE NO. 2
 - 102 POTTING ROOM
 - 103 LOCKABLE STORAGE
 - 104 GARDENING TOOLS
 - 105 COMMON ROOM
 - 106 OFFICE
 - 107 WASHROOM
 - 108 FUEL STORAGE
 - 109 CHAIN-LINK ENCLOSURE
 - 110 CHAIN-LINK ENCLOSURE

BLDG 208 - GREEN HOUSE / STORAGE FLOOR PLAN
 SCALE 1:125

DRAWING NOTES:
 1. HIGH HUMIDITY AREA IN GREENHOUSE - PROVIDE SUITABLE DEVICES.



5		
4		
3	ISSUED FOR TENDER	31MAY2016
2	100% REVIEW	09MAY2016
1	99% REVIEW	09FEB2016
0	66% REVIEW	21MAY2015
Revision/Revision	Description/Description	Date/Date

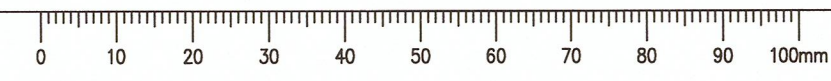
Client/client: **CORRECTIONAL SERVICE CANADA**

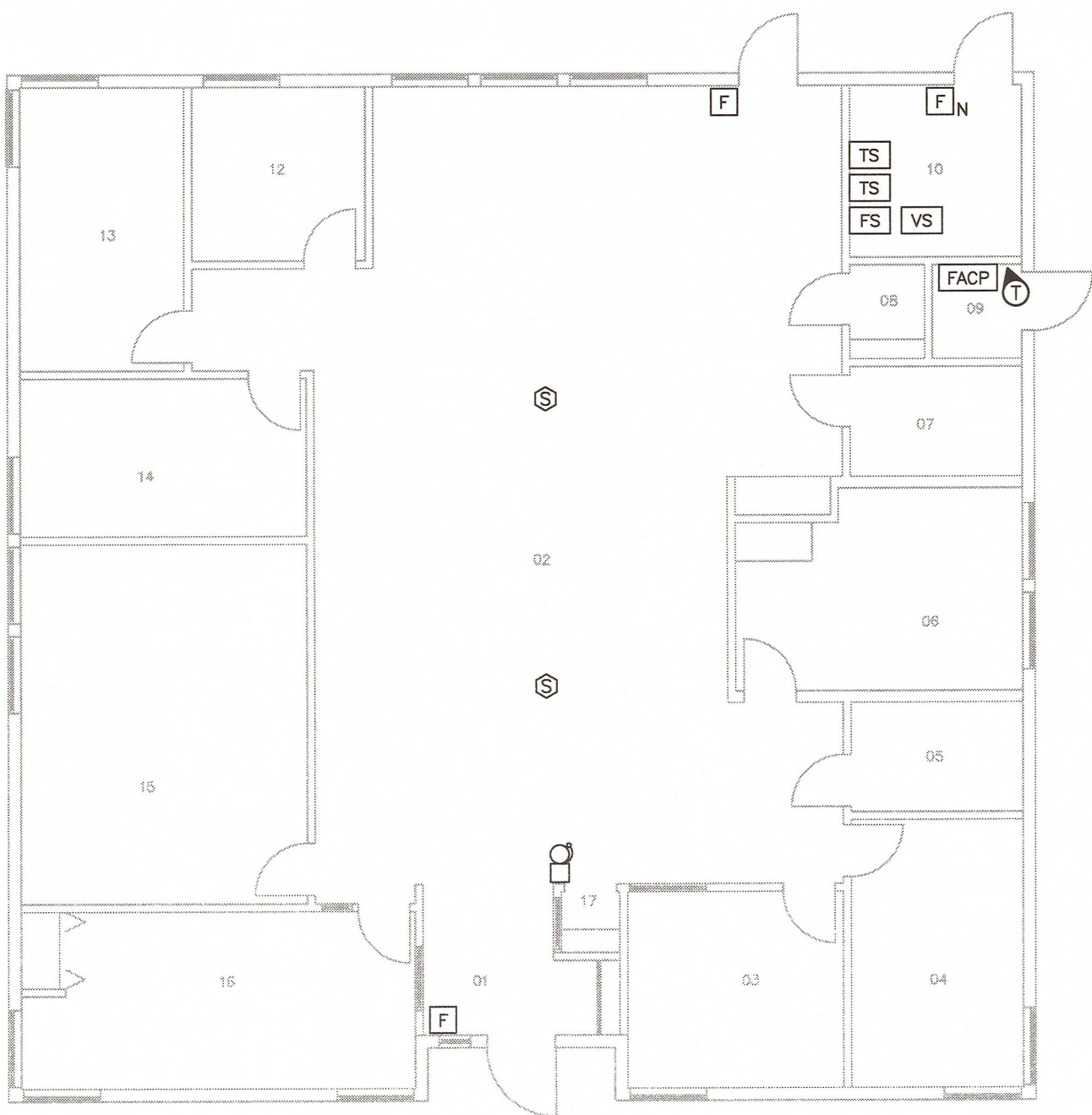
Project title/Titre du projet: **WILLIAM HEAD INSTITUTION FIRE ALARM REPLACEMENT**

Consultant Signature Box Only
 Designed by/Concept par: Greg Robertshaw
 Drawn by/Dessiné par: Steve Banfield
 PWGSC Project Manager/Administrateur de Projets TPSGC: P. Truong
 PWGSC, Regional Manager, Architectural and Engineering Services/ Gestionnaire régionale, Services d'architecture et de génie, TPSGC: P. Paul

Drawing title/Titre du dessin: **FIRE ALARM FLOOR PLANS GROUP F**

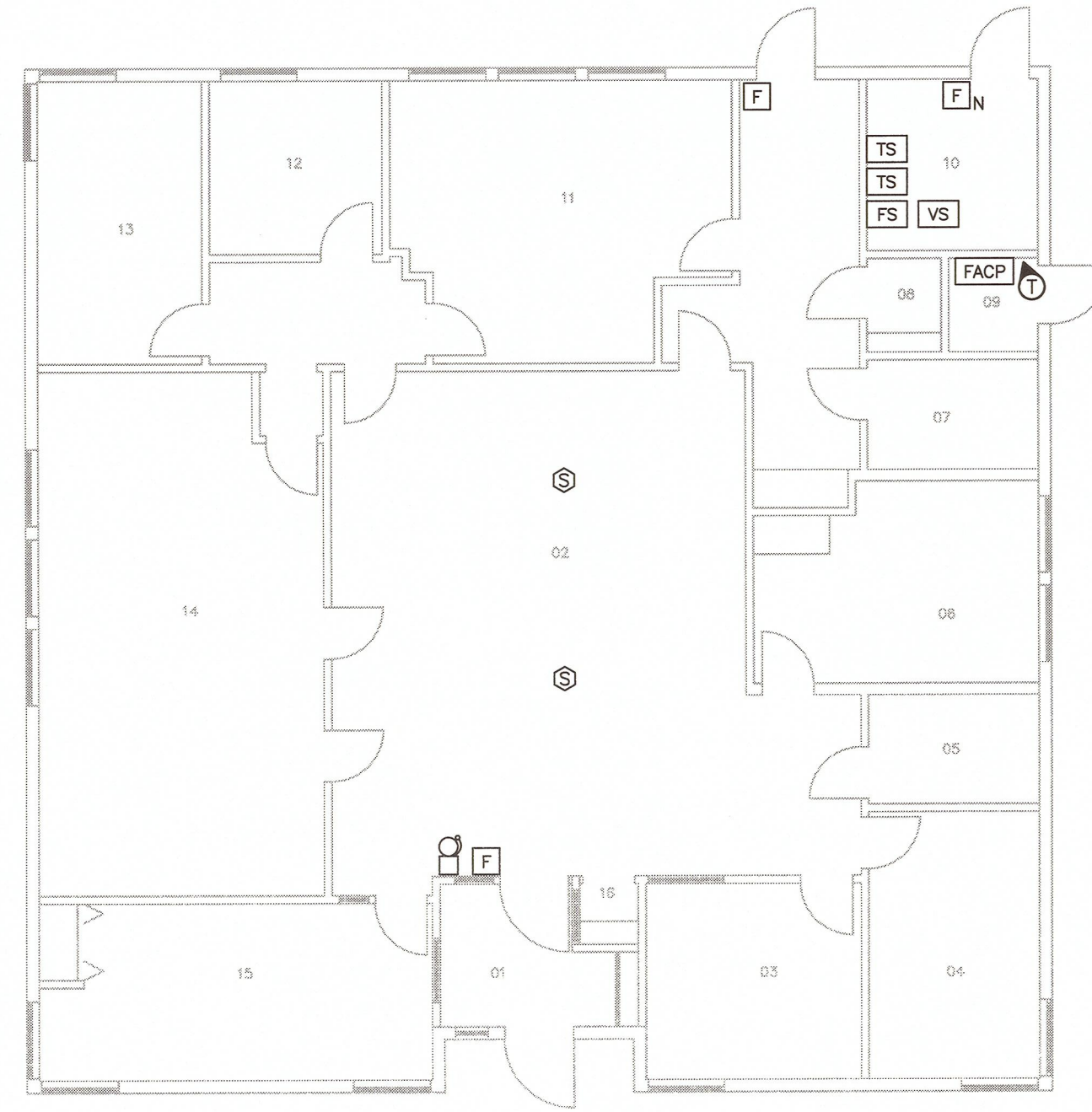
Project No./No. du projet: R.071314.001	Sheet/Feuille: E-11 OF 20	Revision no./La Révision no.: 3
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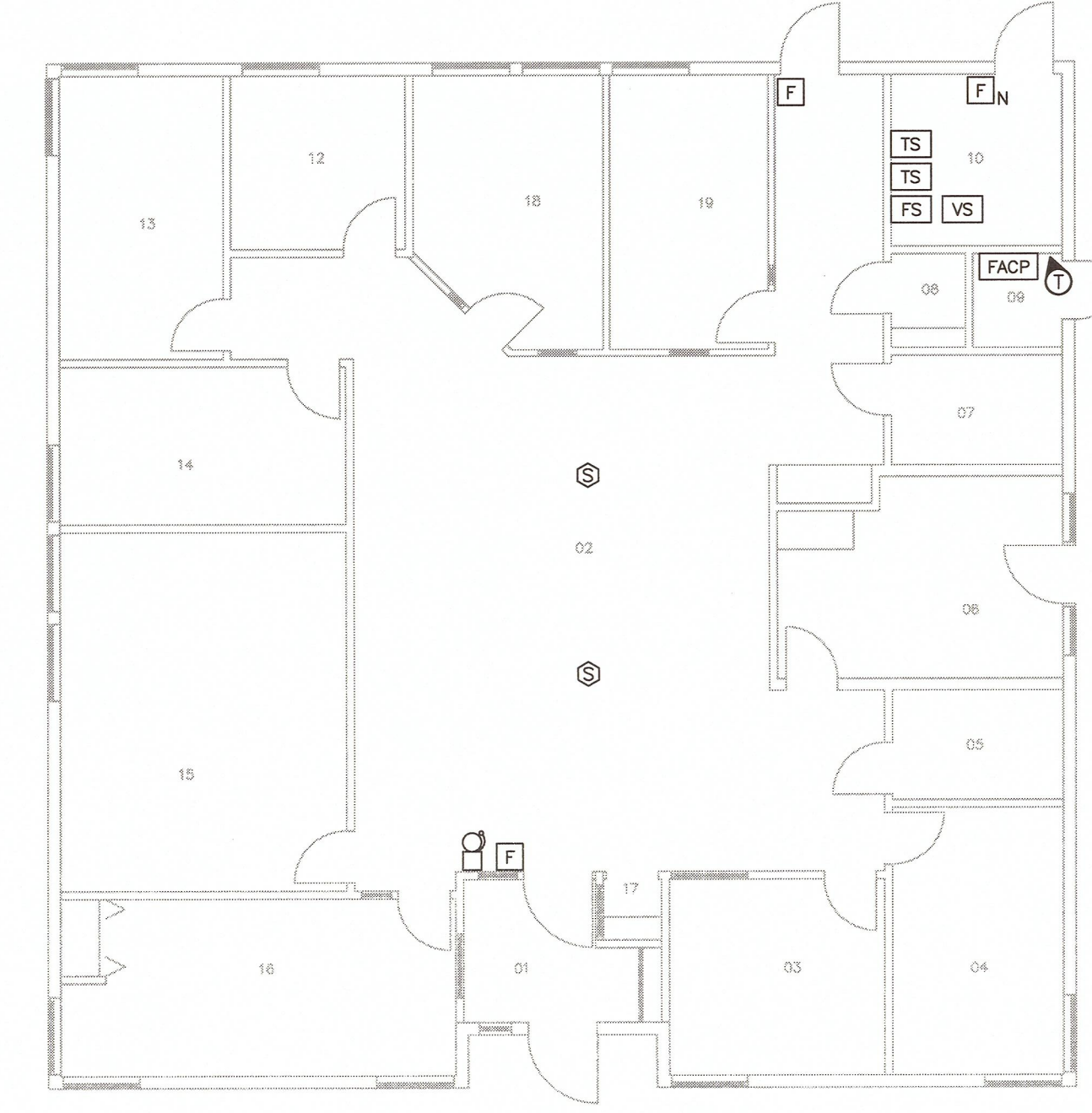
NEIGHBORHOOD BUILDING FLOOR PLAN
TYPICAL FOR BLDGS NUA, NUB & NUE
SCALE 1:100

- LIVING UNITS
main floor
- 01 VESTIBULE
 - 02 CENTRE AREA
 - 03 CLERK
 - 04 UNIT MANAGER
 - 05 STAFF WASHROOM
 - 06 LAUNDRY
 - 07 WASHROOM
 - 08 JANITOR
 - 09 ELECTRICAL ROOM
 - 10 MECHANICAL ROOM
 - 11 BILLIARDS AREA
 - 12 INTERVIEW
 - 13 CASE OFFICE
 - 14 PAROLE OFFICE
 - 15 MEETING ROOM
 - 16 S.C.S.
 - 17 TELEPHONE



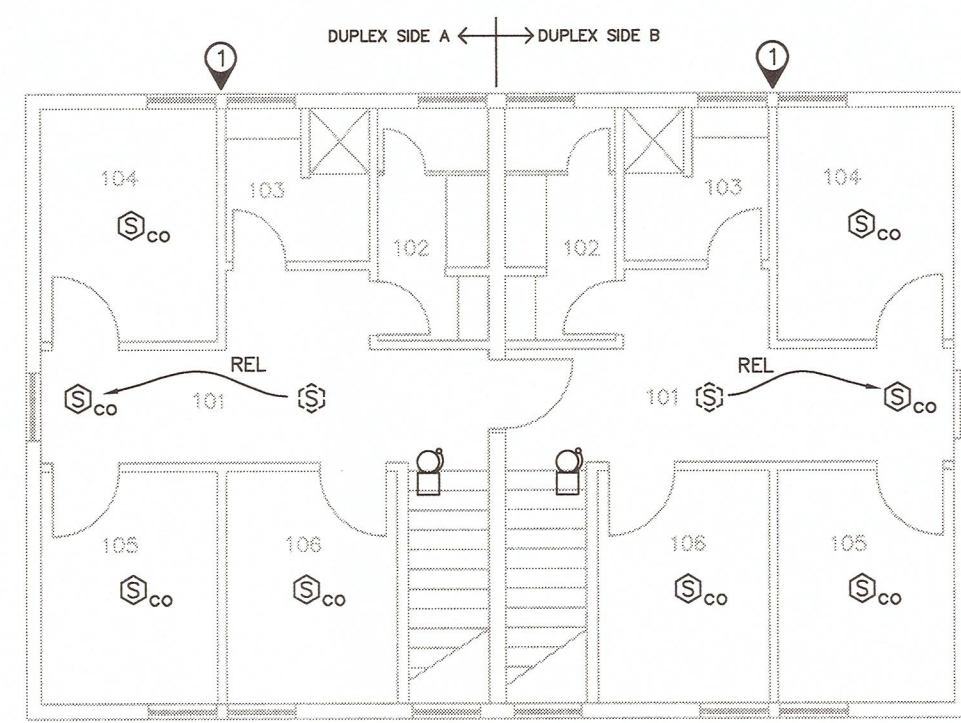
NEIGHBORHOOD BUILDING NUC FLOOR PLAN
SCALE 1:100

- unit NUC
CN UNIT
main floor
- 01 VESTIBULE
 - 02 CENTRE AREA
 - 03 CLERK
 - 04 OFFICE
 - 05 STAFF WASHROOM
 - 06 WASHROOM
 - 07 WASHROOM
 - 08 JANITOR
 - 09 ELECTRICAL ROOM
 - 10 MECHANICAL ROOM
 - 11 OFFICE
 - 12 INTERVIEW
 - 13 CASE OFFICE
 - 14 PAROLE OFFICE
 - 15 MEETING ROOM
 - 16 TELEPHONE



NEIGHBORHOOD BUILDING NUF FLOOR PLAN
SCALE 1:100

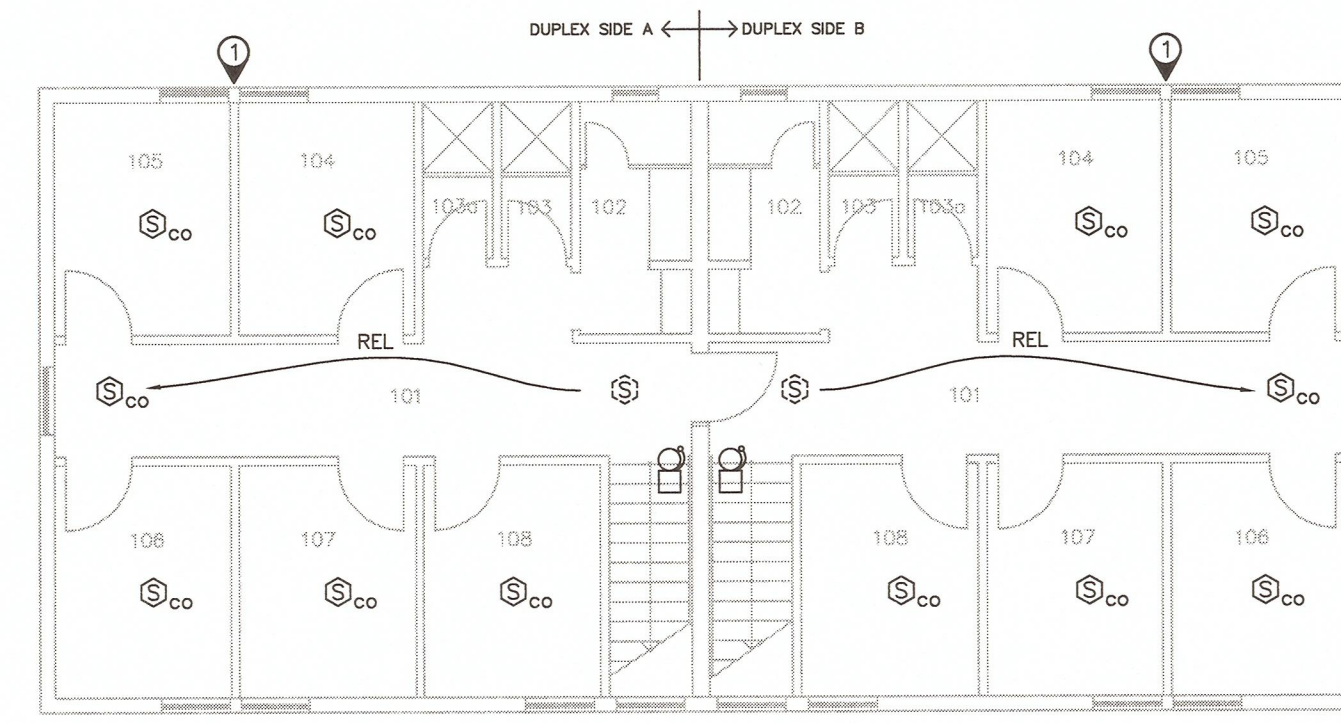
- unit NUF
LIVING UNITS
main floor
- 01 VESTIBULE
 - 02 CENTRE AREA
 - 03 CLERK
 - 04 UNIT MANAGER
 - 05 STAFF WASHROOM
 - 06 LAUNDRY
 - 07 WASHROOM
 - 08 JANITOR
 - 09 ELECTRICAL ROOM
 - 10 MECHANICAL ROOM
 - 11 BILLIARDS AREA
 - 12 INTERVIEW
 - 13 CASE OFFICE
 - 14 PAROLE OFFICE
 - 15 MEETING ROOM
 - 16 S.C.S.
 - 17 TELEPHONE
 - 18 OFFICE
 - 19 OFFICE



NEIGHBORHOOD A - LIVING UNIT
BUILDING NA - LU4 - UPPER FLOOR PLAN
SCALE 1:100

- barrier free
DUPLIX LIVING UNITS
upper floor
- 101 CORRIDOR
 - 102 SHOWER
 - 103 SHOWER
 - 104 ROOM 1
 - 105 ROOM 2
 - 106 ROOM 3

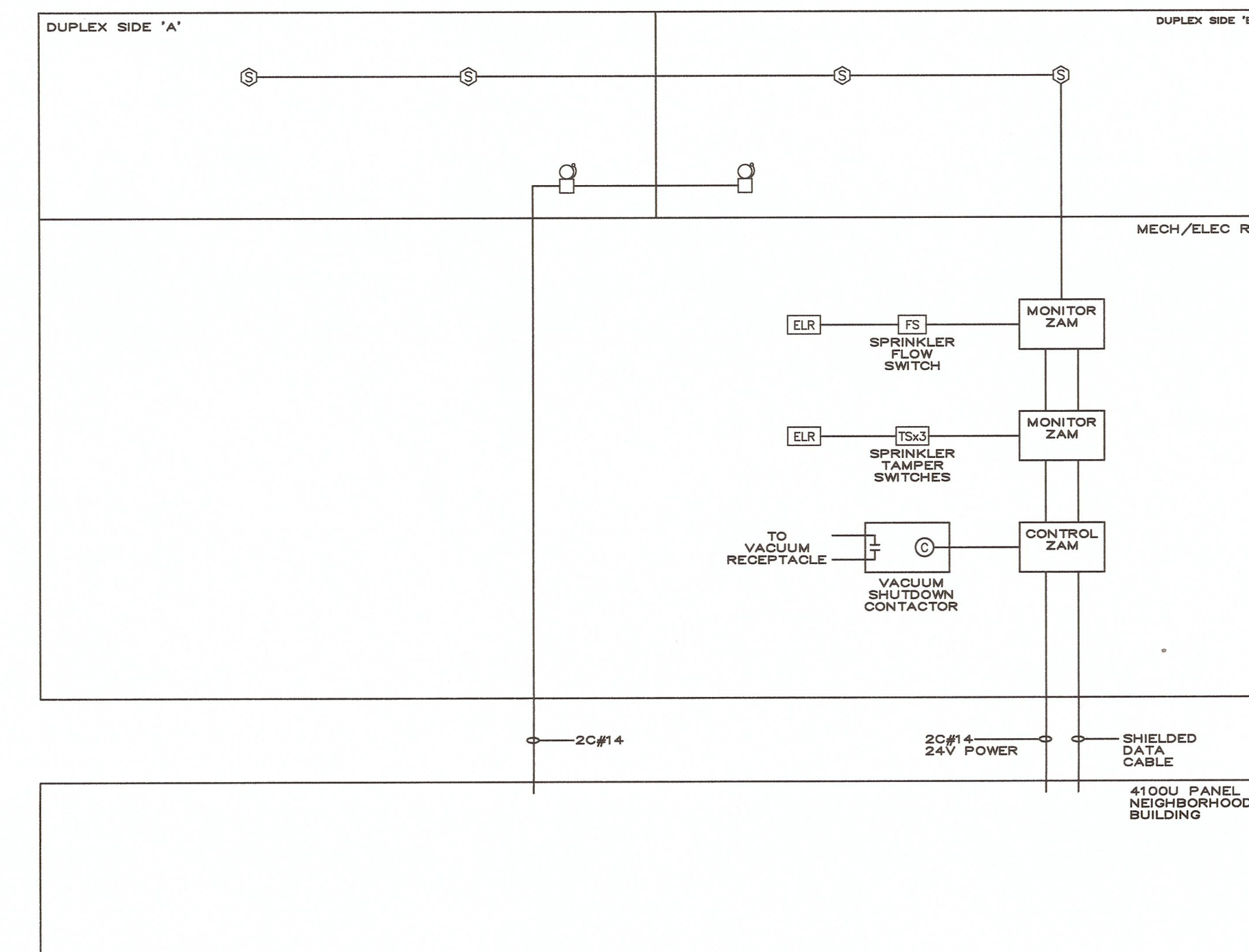
- DRAWING NOTES
1. ACCESS DOOR TO ATTIC SPACE LOCATED ABOVE WINDOW AREA AS SHOWN.



NEIGHBORHOOD LIVING UNIT
TYPICAL UPPER FLOOR PLAN (19 BUILDINGS TOTAL)
SCALE 1:100

- DUPLIX LIVING UNIT
upper floor
- 101 CORRIDOR
 - 102 TOILET
 - 103 SHOWER
 - 104 ROOM 1
 - 105 ROOM 2
 - 106 ROOM 3
 - 107 ROOM 4
 - 108 ROOM 5

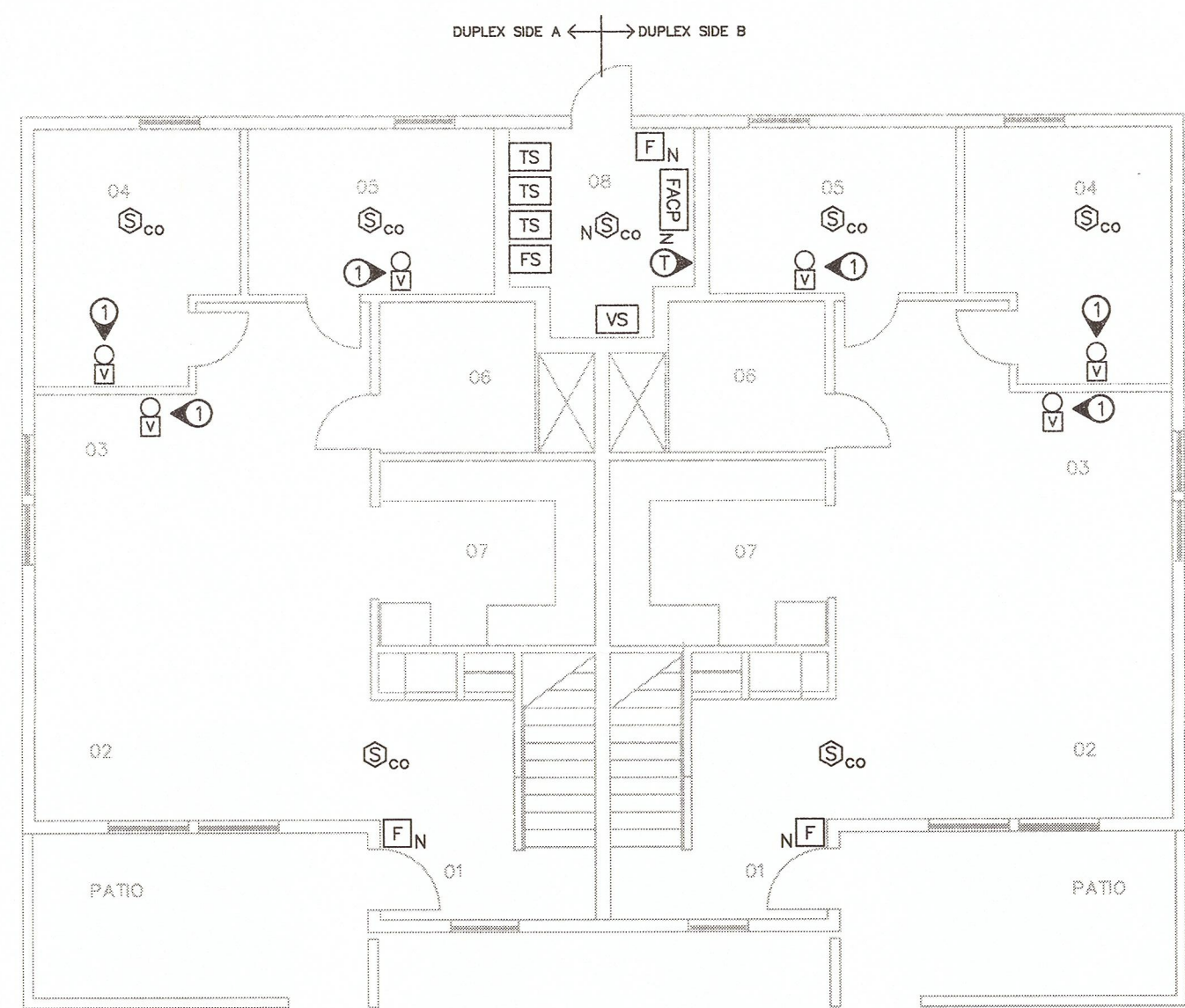
- DRAWING NOTES
1. ACCESS DOOR TO ATTIC SPACE LOCATED ABOVE WINDOW AREA AS SHOWN.



TYPICAL EXISTING FIRE ALARM WIRING AT LIVING UNITS

- NOTES:
- THREE #14 CONDUCTORS ROUTED TO THE NEIGHBORHOOD BUILDING ARE SPARE.
 - TWO SHIELDED DATA CABLES ROUTED TO THE NEIGHBORHOOD BUILDING ARE USED FOR THE SECURITY SYSTEM.
 - NOT ALL DEVICES SHOWN.

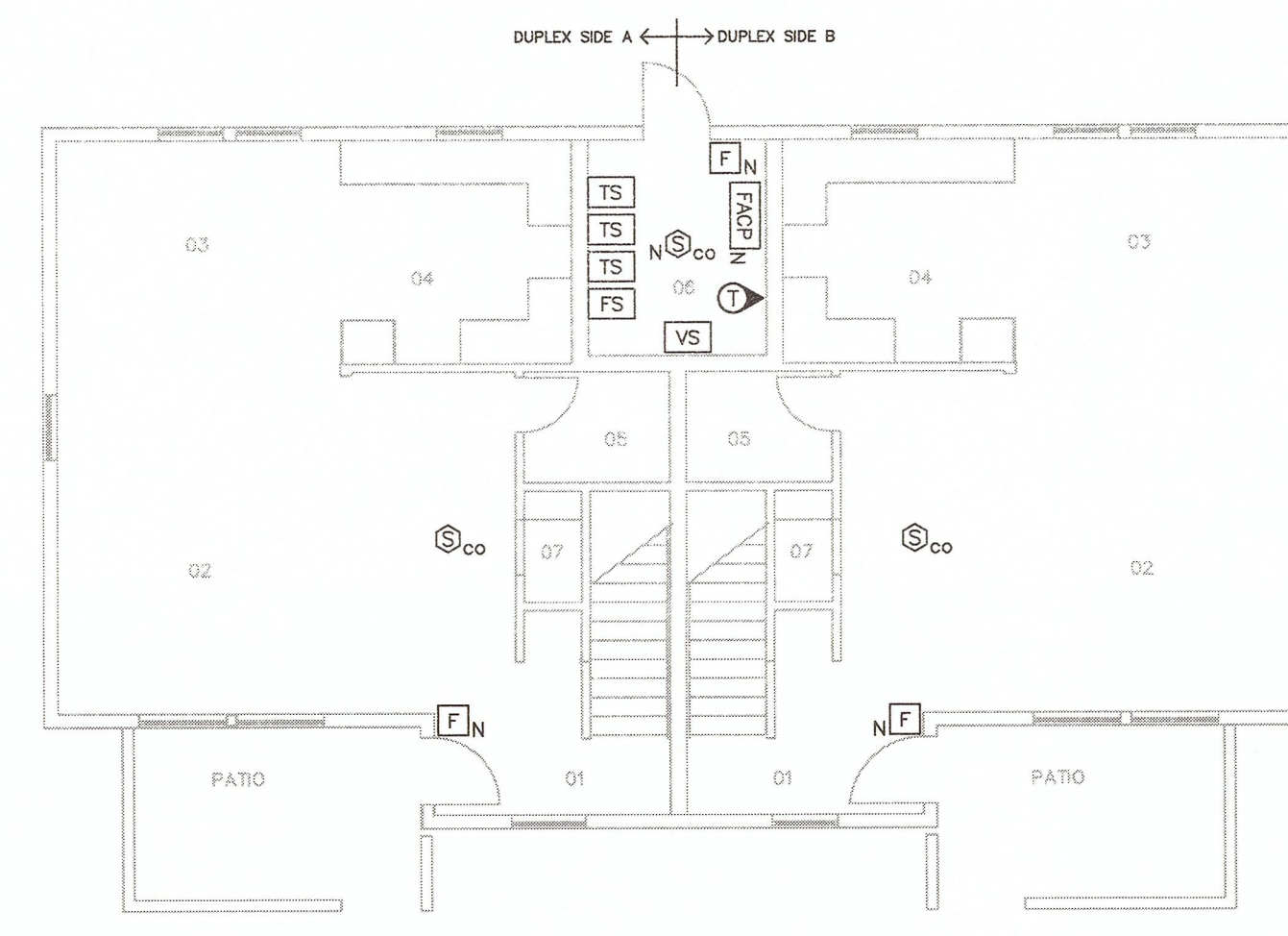
- NOTES FOR NEIGHBOURHOOD AND LIVING UNIT BUILDINGS
- CONNECT EXISTING VACUUM SHUTDOWN TO FIRE ALARM SYSTEM. PROVIDE NEW RELAY INTERFACE IN NEW PANEL WITHIN EACH BUILDING TO OPERATE LOCAL VACUUM SHUTDOWN. NOTE THAT THE EXISTING CONFIGURATION USES THE REMOTE PANEL IN THE NEIGHBOURHOOD BUILDINGS TO SHUT DOWN THE VACUUM IN THE LIVING UNITS. RELOCATE VACUUM SHUTDOWN CONTACTOR OUT OF EXISTING FIRE ALARM PULLBOX. EXISTING VACUUM IS IN THE SAME ROOM AS THE VACUUM SHUTDOWN CONTACTOR.
 - THE LIVING UNIT BUILDINGS CURRENTLY DO NOT HAVE ANY FIRE ALARM PANELS INSTALLED. INSTALL THE NEW PANELS IN THE MECHANICAL ROOMS AS INDICATED. A CONSIDERABLE AMOUNT OF RELOCATION OF EXISTING CONDUIT, ENCLOSURES, BOXES AND DEVICES IS REQUIRED TO MAKE ROOM FOR THE NEW FIRE ALARM PANELS. REFER TO DRAWING E-19 FOR MORE INFORMATION.
 - RELOCATE SMOKE DETECTORS ON UPPER FLOOR OF LIVING UNITS AS SHOWN TO MITIGATE FALSE ALARMS FROM ADJACENT SHOWERS.
 - INSTALL FIBRE OPTIC TERMINATION BOXES ADJACENT TO FIRE ALARM PANELS.
 - REMOVE REDUNDANT CABLING BETWEEN THE LIVING UNITS AND THE NEIGHBOURHOOD BUILDINGS.
 - CONCEAL ALL NEW WIRING EXCEPT IN MECHANICAL AND ELECTRICAL ROOMS.
 - THE EXISTING FIRE ALARM PANEL ENCLOSURES ARE THE ORIGINAL SIMPLEX 4100 SIZE. THE 4100U PANELS WERE FIT WITHIN THESE SMALLER PANELS. THERE IS NO ADDITIONAL SPACE TO INSTALL A LARGER ENCLOSURE IN THESE ROOMS.
 - PROVIDE A NEW DEDICATED 120V, 15A BOLT-ON CIRCUIT FOR THE NEW FIRE ALARM PANEL IN EACH LIVING UNIT. PAINT BREAKER RED AND ADD A LOCK-ON DEVICE. EXISTING PANELBOARD IS LOCATED WITHIN THE SAME ROOM AS THE NEW FIRE ALARM PANEL.
 - LIVING UNITS ARE EQUIPPED WITH SMOKE DETECTORS. REPLACE ALL LIVING UNIT SMOKE DETECTORS WITH COMBINATION SMOKE AND CARBON MONOXIDE DETECTORS.
 - AT EACH LIVING UNIT, IT APPEARS THERE IS A SINGLE DCB-CONFIGURED CABLE ROUTED TO BOTH DUPLEX AREAS ACROSS A FIRE BARRIER. MODIFY EXISTING WIRING TO CONFIGURE THE CABLING AS CODE-COMPLIANT SEPARATE HOME-RUN ZONES FOR EACH HALF OF THE BUILDING, FOR BOTH BELL AND INITIATING DEVICE CIRCUITS.
 - PROVIDE CONCEALED ARMoured FIRE ALARM CABLE FOR ALL NEW WIRING.
 - WITHIN THE LIVING UNITS, THE EXISTING DETECTORS ARE SMOKE DETECTORS. THERE ARE NO EXISTING CARBON MONOXIDE DETECTORS.



NEIGHBORHOOD A - LIVING UNIT
BUILDING NA - LU4 - MAIN FLOOR PLAN
SCALE 1:100

- barrier free
DUPLIX LIVING UNITS
main floor
- 01 ENTRANCE
 - 02 LIVING ROOM
 - 03 DINING ROOM
 - 04 ROOM 1
 - 05 ROOM 2
 - 06 B.F. BATHROOM
 - 07 KITCHEN
 - 08 MECHANICAL / ELEC ROOM

- DRAWING NOTES
1. PROVIDE NEW VISUAL-ONLY NOTIFICATION APPLIANCE FOR THE HANDICAP ROOMS.



NEIGHBORHOOD LIVING UNIT
TYPICAL MAIN FLOOR PLAN (19 BUILDINGS TOTAL)
SCALE 1:100

- DUPLIX LIVING UNIT
main floor
- 01 ENTRANCE
 - 02 LIVING ROOM
 - 03 DINING ROOM
 - 04 ROOM 1
 - 05 ROOM 2
 - 06 B.F. BATHROOM
 - 07 KITCHEN
 - 08 MECHANICAL / ELEC ROOM



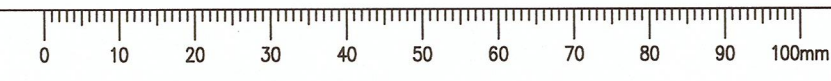
Revision/Revision	Description/Description	Date/Date
5		
4		
3	ISSUED FOR TENDER	31MAY2016
2	100% REVIEW	09MAY2016
1	99% REVIEW	09FEB2016
0	66% REVIEW	21MAY2015

Client/client
CORRECTIONAL SERVICE CANADA

Project title/Titre du projet
**WILLIAM HEAD INSTITUTION
FIRE ALARM
REPLACEMENT**

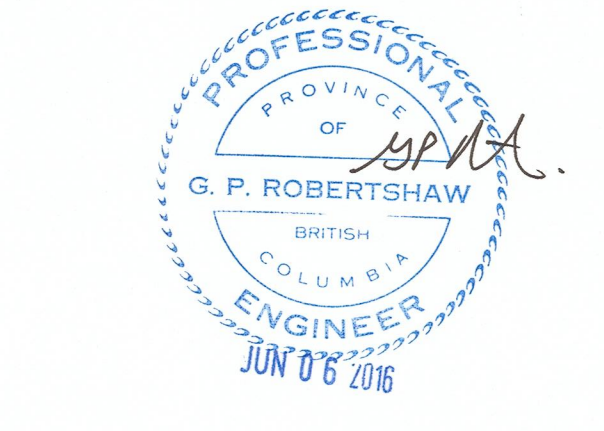
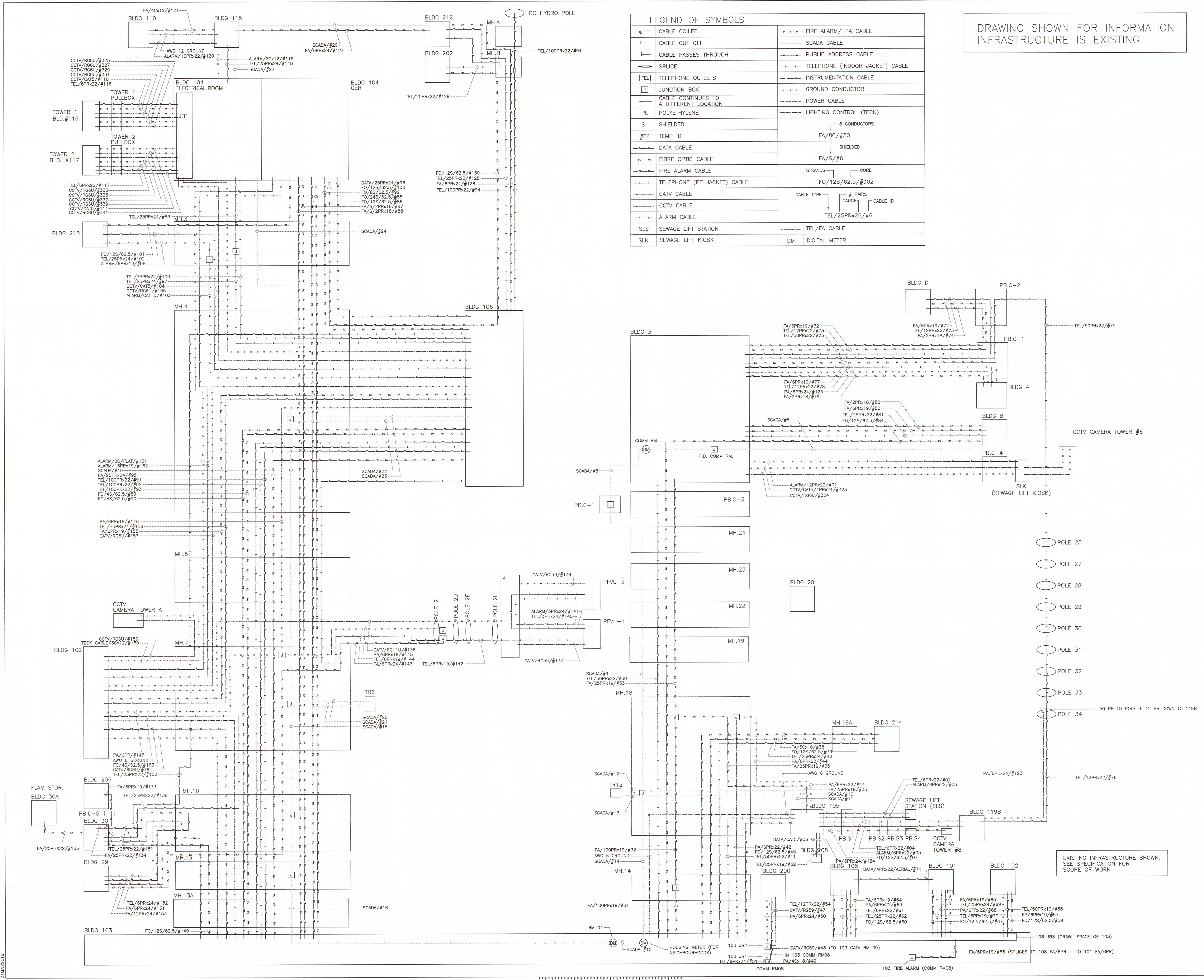
Consultant Signature Box Only
Designed by/Concept par
Greg Robertshaw
Drawn by/Dessiné par
Steve Banfield
PWGSC Project Manager/Administrateur de Projets TPSCG
P. Truong

Drawing title/Titre du dessin
**FIRE ALARM FLOOR PLANS
GROUP G**
Project No./No. du projet
R.071314.001
Sheet/Feuille
E-12
OF 20
Revision no./
Le Révision
no.
3



DRAWING SHOWN FOR INFORMATION
 INFRASTRUCTURE IS EXISTING

LEGEND OF SYMBOLS			
	CABLE COILED		FIRE ALARM/ PA CABLE
	CABLE CUT OFF		SCADA CABLE
	CABLE PASSES THROUGH		PUBLIC ADDRESS CABLE
	SPLICE		TELEPHONE (INDOOR JACKET) CABLE
	TELEPHONE OUTLETS		INSTRUMENTATION CABLE
	JUNCTION BOX		GROUND CONDUCTOR
	CABLE CONTINUES TO A DIFFERENT LOCATION		POWER CABLE
	POLYETHYLENE		LIGHTING CONTROL (TECK)
	SHIELDED	8 CONDUCTORS	
	TEMP ID	FA/BC/#50	
	DATA CABLE	SHIELDED	
	FIBRE OPTIC CABLE	FA/S/#61	
	FIRE ALARM CABLE	STRANDS	
	TELEPHONE (PE JACKET) CABLE	CORE	
	CATV CABLE	CABLE TYPE	
	CCTV CABLE	GAUGE	
	ALARM CABLE	PAIRS	
	SEWAGE LIFT STATION	CABLE ID	
	SEWAGE LIFT KIOSK	TEL/25PRx26/#6	
			TEL/FA CABLE
			DM DIGITAL METER



Revision/Revision	Description/Description	Date/Date
5		
4		
3	ISSUED FOR TENDER	31MAY2016
2	100% REVIEW	09MAY2016
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Client/client
CORRECTIONAL SERVICE CANADA

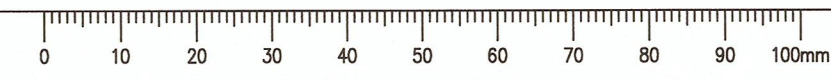
Project title/Titre du projet
**WILLIAM HEAD INSTITUTION
 FIRE ALARM
 REPLACEMENT**

Consultant Signature Box Only
 Designed by/Conçue par
 Greg Robertshaw
 Drawn by/Dessiné par
 Steve Banfield
 PWGSC Project Manager/Administrateur de Projets TPSCG
 P.Truong
 PWGSC, Regional Manager, Architectural and Engineering Services/
 Gestionnaire régionale, Services d'architecture et de génie, TPSCG
 P. Paul

Drawing title/Titre du dessin
**EXISTING TELECOM CABLE LAYOUT
 ALL CABLES - SHEET 1**

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
R.071314.001	E-13 OF 20	3

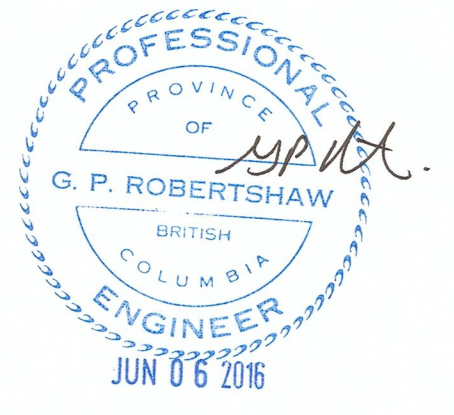
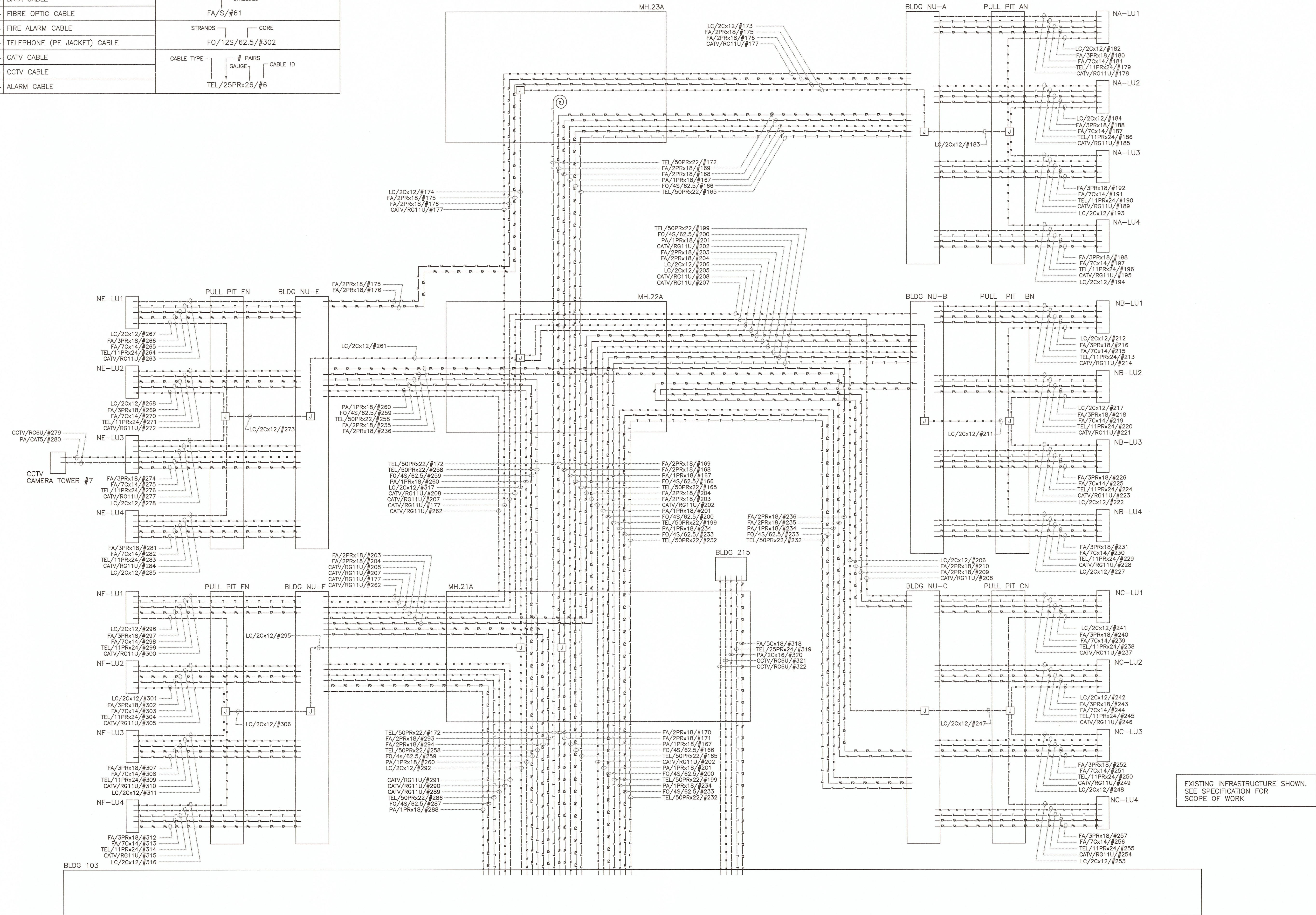
31MAY2016



DRAWING SHOWN FOR INFORMATION
INFRASTRUCTURE IS EXISTING

LEGEND OF SYMBOLS	
	CABLE COILED
	CABLE CUT OFF
	CABLE PASSES THROUGH
	SPLICE
	TELEPHONE OUTLETS
	JUNCTION BOX
	CABLE CONTINUES TO A DIFFERENT LOCATION
	POLYETHYLENE
	SHIELDED
	TEMP ID
	DATA CABLE
	FIBRE OPTIC CABLE
	FIRE ALARM CABLE
	TELEPHONE (PE JACKET) CABLE
	CATV CABLE
	ALARM CABLE
	FIRE ALARM/ PA CABLE
	SCADA CABLE
	PUBLIC ADDRESS CABLE
	TELEPHONE (INDOOR JACKET) CABLE
	INSTRUMENTATION CABLE
	GROUND CONDUCTOR
	POWER CABLE
	LIGHTING CONTROL (TECK)
	8 CONDUCTORS
	FA/8C/#50
	SHIELDED
	FA/S/#61
	STRANDS
	CORE
	FO/12S/62.5/#302
	CABLE TYPE
	GAUGE
	CABLE ID
	TEL/25PRx26/#6

NEIGHBOURHOOD BUILDINGS AND LIVING UNITS MAY HAVE AN ALTERNATE NAME ON CABLE ID TAGS			
NEW NAME	OLD NAME	NEW NAME	OLD NAME
NU-A	AN	NA-LU1	AD1
NU-B	BN	NA-LU2	AD2
NU-C	CN	NA-LU3	AD3
NU-E	EN	NA-LU4	AD4
NU-F	FN		
NB-LU1	BD1	NC-LU1	CD1
NB-LU2	BD2	NC-LU2	CD2
NB-LU3	BD3	NC-LU3	CD3
NB-LU4	BD4	NC-LU4	CD4
NE-LU1	ED1	NF-LU1	FD1
NE-LU2	ED2	NF-LU2	FD2
NE-LU3	ED3	NF-LU3	FD3
NE-LU4	ED4	NF-LU4	FD4



Revision/Revision	Description/Description	Date/Date
5		
4		
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CORRECTIONAL SERVICE CANADA

**WILLIAM HEAD INSTITUTION
FIRE ALARM
REPLACEMENT**

Client/Client: **WILLIAM HEAD INSTITUTION**

Project Title/Titre du projet: **WILLIAM HEAD INSTITUTION FIRE ALARM REPLACEMENT**

Consultant Signature Box Only

Designed by/Concept par: **Greg Robertshaw**

Drawn by/Dessiné par: **Steve Banfield**

PWOSC Project Manager/Administrateur de Projets TPSGC: **P. Truong**

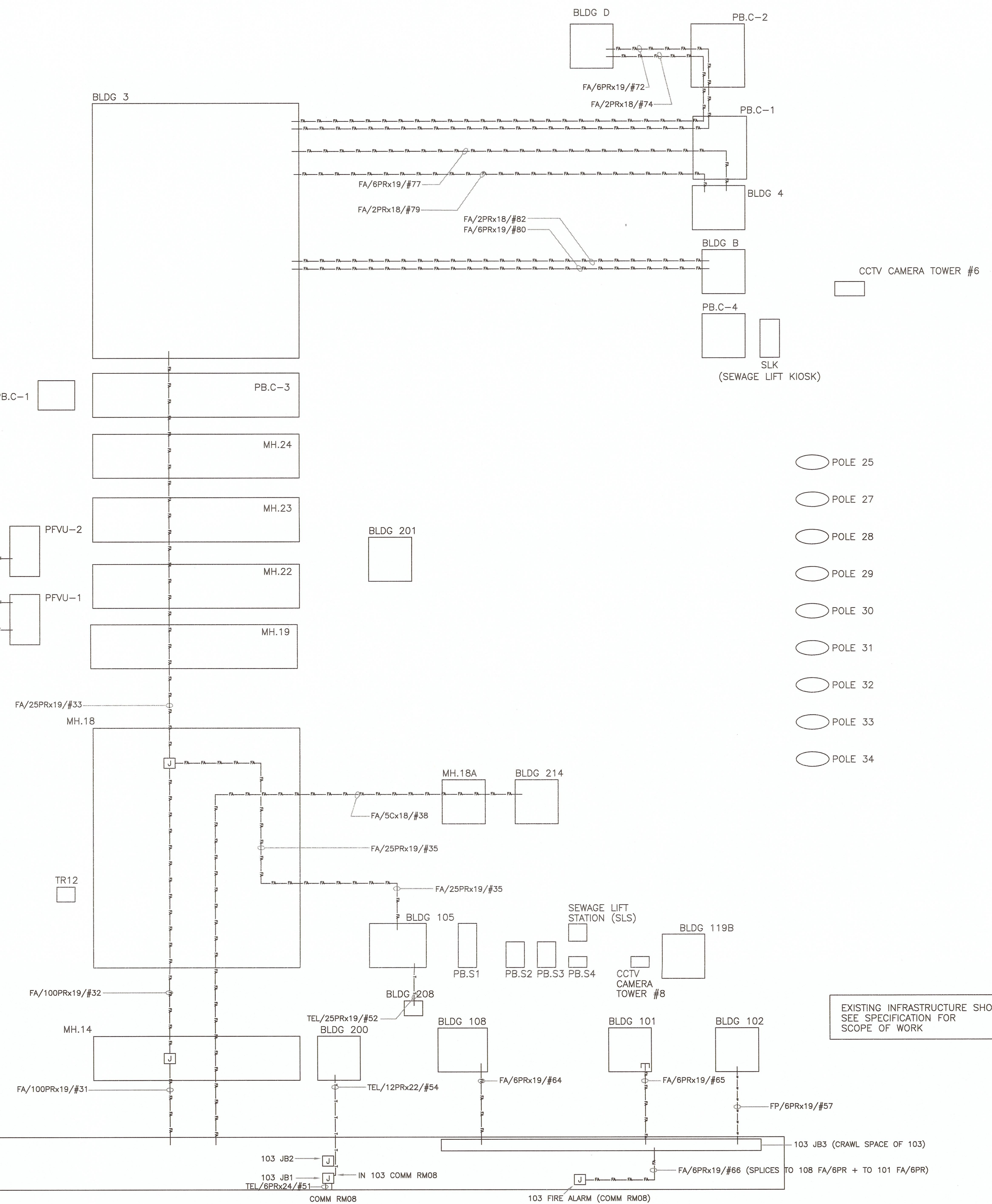
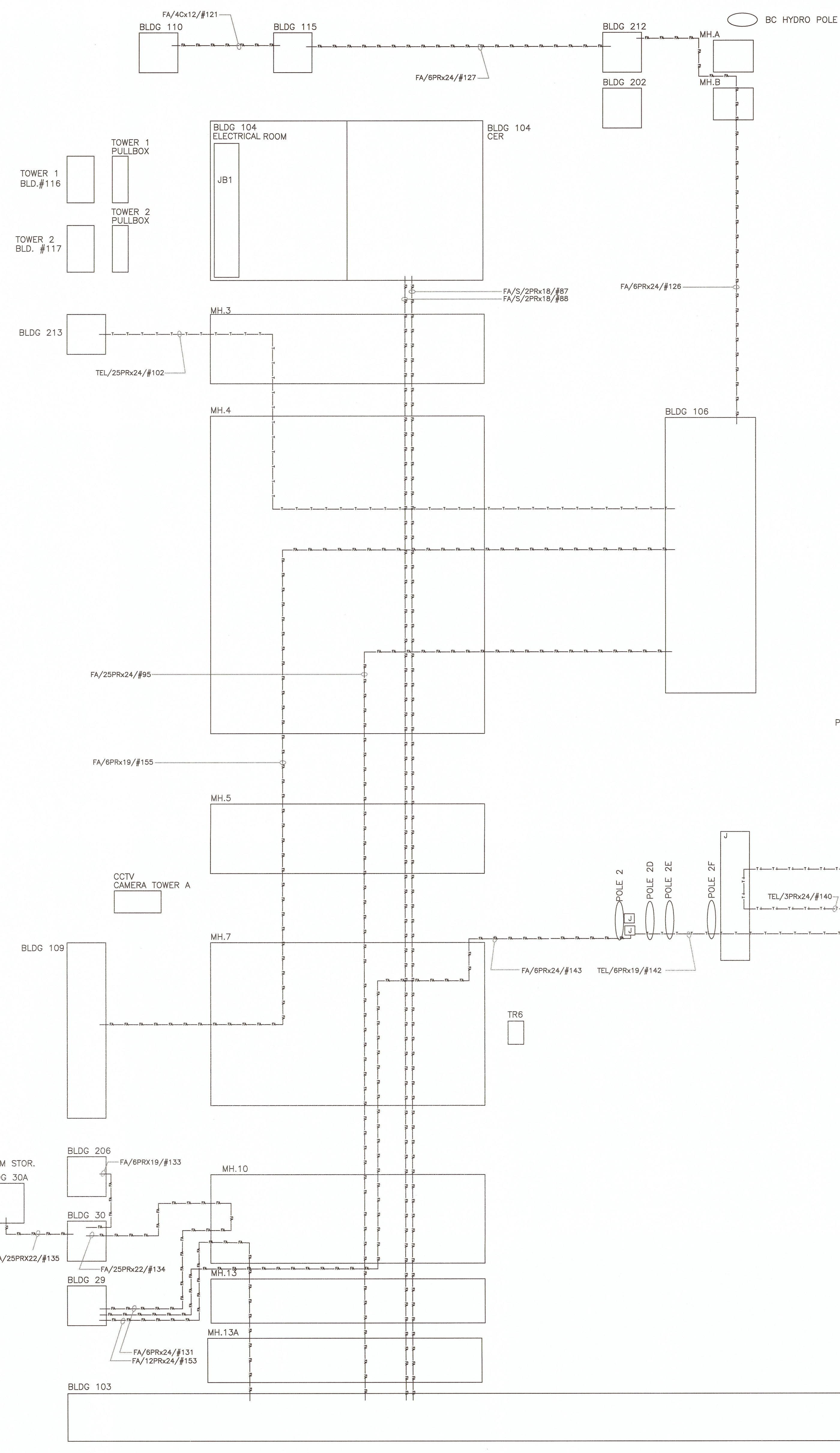
PWOSC Regional Manager, Architectural and Engineering Services/Gestionnaire régionale, Services d'architecture et de génie, TPSGC: **P. Paul**

**EXISTING TELECOM CABLE LAYOUT
ALL CABLES - SHEET 2**

Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
R.071314.001	E-14	3

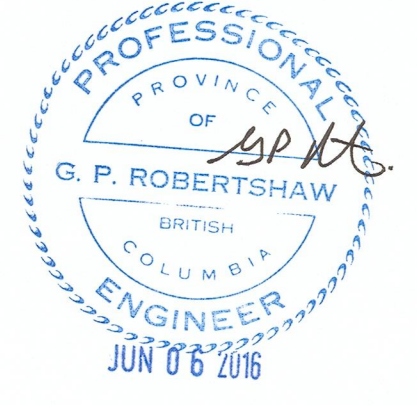
DRAWING SHOWN FOR INFORMATION
INFRASTRUCTURE IS EXISTING

LEGEND OF SYMBOLS	
	CABLE COILED
	CABLE CUT OFF
	CABLE PASSES THROUGH
	SPLICE
	TELEPHONE OUTLETS
	JUNCTION BOX
	CABLE CONTINUES TO A DIFFERENT LOCATION
	POLYETHYLENE
	SHIELDED
	TEMP ID
	DATA CABLE
	FIBRE OPTIC CABLE
	FIRE ALARM CABLE
	TELEPHONE (PE JACKET) CABLE
	CATV CABLE
	CCTV CABLE
	ALARM CABLE
	SEWAGE LIFT STATION
	SEWAGE LIFT KIOSK
	FIRE ALARM/ PA CABLE
	SCADA CABLE
	PUBLIC ADDRESS CABLE
	TELEPHONE (INDOOR JACKET) CABLE
	INSTRUMENTATION CABLE
	GROUND CONDUCTOR
	POWER CABLE
	LIGHTING CONTROL (TECK)
	8 CONDUCTORS
	FA/BC/#50
	SHIELDED
	FA/S/#61
	STRANDS
	CORE
	FO/12S/62.5/#302
	CABLE TYPE
# Pairs symbol"/>	# Pairs
	GAUGE
	CABLE ID
	TEL/25PRx26/#6
	TEL/FA CABLE
	DM
	DIGITAL METER



- POLE 25
- POLE 27
- POLE 28
- POLE 29
- POLE 30
- POLE 31
- POLE 32
- POLE 33
- POLE 34

EXISTING INFRASTRUCTURE SHOWN.
SEE SPECIFICATION FOR
SCOPE OF WORK



Revision/Revision	Description/Description	Date/Date
5		
4		
3	ISSUED FOR TENDER	31MAY2016
2	100% REVIEW	09MAY2016
1	90% REVIEW	09FEB2016
0	66% REVIEW	21MAY2015

Client/client
CORRECTIONAL SERVICE CANADA

Project title/Titre du projet
**WILLIAM HEAD INSTITUTION
FIRE ALARM
REPLACEMENT**

Consultant Signature Box Only
Designed by/Concept par
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Drawn by/Dessiné par
Steve Banfield
PWGSC Project Manager/Administrateur de Projets TPSGC
P. Truong
PWGSC, Regional Manager, Architectural and Engineering Services/
Gestionnaire régionale, Services d'architectural et de génie, TPSGC
P. Paul

Drawing title/Titre du dessin
**EXISTING TELECOM CABLE LAYOUT
FIRE ALARM CABLES - SHEET 1**

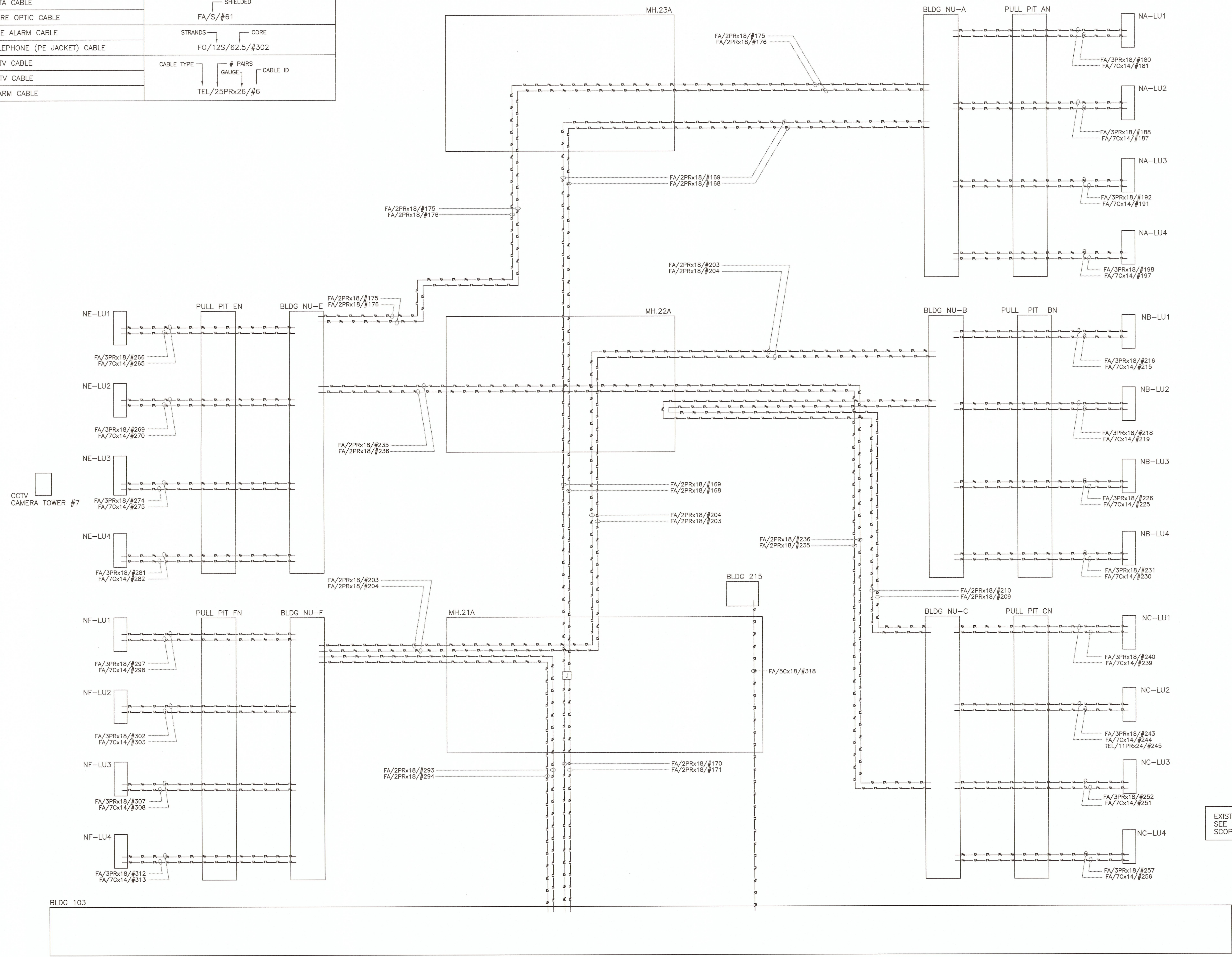
Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
R.071314.001	E-15 OF 20	3

DRAWING SHOWN FOR INFORMATION
INFRASTRUCTURE IS EXISTING



LEGEND OF SYMBOLS	
	CABLE COILED
	CABLE CUT OFF
	CABLE PASSES THROUGH
	SPLICE
	TELEPHONE OUTLETS
	JUNCTION BOX
	CABLE CONTINUES TO A DIFFERENT LOCATION
	POLYETHYLENE
	SHIELDED
	TEMP ID
	DATA CABLE
	FIBRE OPTIC CABLE
	FIRE ALARM CABLE
	TELEPHONE (PE JACKET) CABLE
	CATV CABLE
	CCTV CABLE
	ALARM CABLE
	FIRE ALARM/ PA CABLE
	SCADA CABLE
	PUBLIC ADDRESS CABLE
	TELEPHONE (INDOOR JACKET) CABLE
	INSTRUMENTATION CABLE
	GROUND CONDUCTOR
	POWER CABLE
	LIGHTING CONTROL (TECK)
	8 CONDUCTORS
	FA/BC/#50
	SHIELDED
	FA/S/#61
	STRANDS
	CORE
	FO/12S/62.5/#302
	CABLE TYPE
# Pairs symbol"/>	# PAIRS
Gauge symbol"/>	GAUGE
	CABLE ID
	TEL/25PRX26/#6

NEIGHBOURHOOD BUILDINGS AND LIVING UNITS MAY HAVE AN ALTERNATE NAME ON CABLE ID TAGS			
NEW NAME	OLD NAME	NEW NAME	OLD NAME
NU-A	AN	NA-LU1	AD1
NU-B	BN	NA-LU2	AD2
NU-C	CN	NA-LU3	AD3
NU-E	EN	NA-LU4	AD4
NU-F	FN		
NB-LU1	BD1	NC-LU1	CD1
NB-LU2	BD2	NC-LU2	CD2
NB-LU3	BD3	NC-LU3	CD3
NB-LU4	BD4	NC-LU4	CD4
NE-LU1	ED1	NF-LU1	FD1
NE-LU2	ED2	NF-LU2	FD2
NE-LU3	ED3	NF-LU3	FD3
NE-LU4	ED4	NF-LU4	FD4



EXISTING INFRASTRUCTURE SHOWN.
SEE SPECIFICATION FOR
SCOPE OF WORK

Revision/Revision	Description/Description	Date/Date
5		
4		
3	ISSUED FOR TENDER	31MAY2016
2	100% REVIEW	09MAY2016
1	90% REVIEW	09FEB2016
0	60% REVIEW	21MAY2015

Client/client
CORRECTIONAL SERVICE CANADA

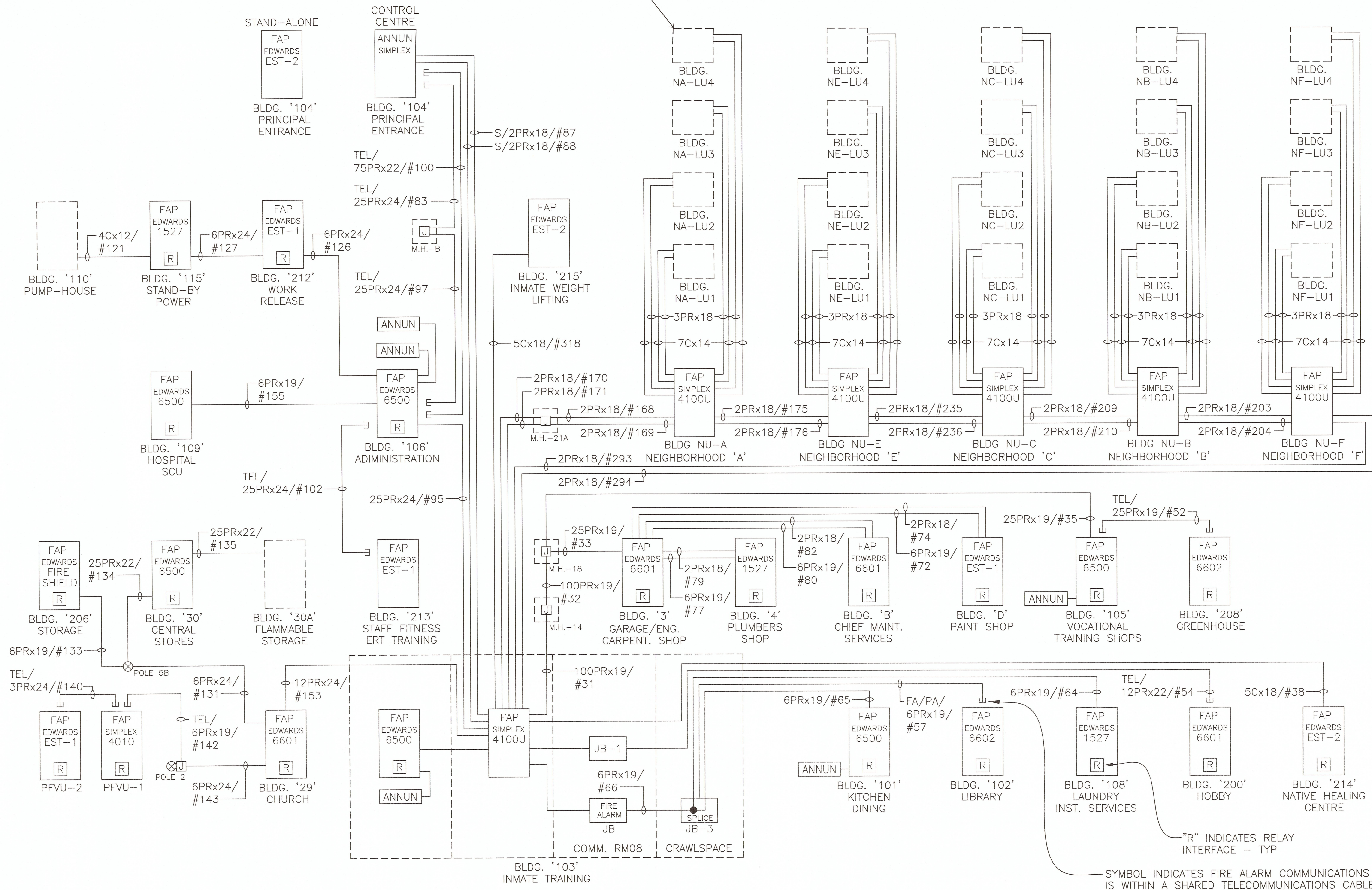
Project title/Titre du projet
**WILLIAM HEAD INSTITUTION
FIRE ALARM
REPLACEMENT**

Consultant Signature Box Only
Designed by/Concept par
Greg Robertshaw
Drawn by/Dessiné par
Steve Banfield
PWGSC Project Manager/Administrateur de Projets TPSGC
P. Truong
PWGSC, Regional Manager, Architectural and Engineering Services/
Gestionnaire régional, Services d'architectural et de génie, TPSGC
P. Paul

Drawing title/Titre du dessin
**EXISTING TELECOM CABLE LAYOUT
FIRE ALARM CABLES - SHEET 2**

Project No./No. du projet	Sheet/Fauille	Revision no./ La Révision no.
R.071314.001	E-16	3

DASHED LINE INDICATES THERE IS NO FIRE ALARM PANEL IN THE BUILDING AND THE FIRE ALARM DEVICES WITHIN THE BUILDING ARE CONNECTED TO A FIRE ALARM PANEL IN ANOTHER BUILDING. - TYPICAL



5		
4		
3	ISSUED FOR TENDER	31MAY2016
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1	90% REVIEW	09FEB2016
0	60% REVIEW	21MAY2015
Revision/	Description/Description	Date/Date

Client/Client
CORRECTIONAL SERVICE CANADA

Project title/Titre du projet
**WILLIAM HEAD INSTITUTION
FIRE ALARM
REPLACEMENT**

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PWSSC Project Manager/Administrateur de Projets TPSSC
P. Truong

PWSSC Regional Manager, Architectural and Engineering Services/
Gestionnaire régionale, Services d'architectural et de génie, TPSSC
P. Paul

Drawing title/Titre du dessin
EXISTING SINGLE LINE DIAGRAM

Project No./No. du projet R.071314.001	Sheet/Fauille E-17 OF 20	Revision no./ La Révision no. 3
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FIRE ALARM SYSTEMS SUMMARY

BUILDING No.	BUILDING NAME	EXISTING FIRE ALARM PANEL	SPRINKLER SYSTEM	PROVIDE NEW FIRE ALARM SYSTEM	BASEMENT FLOOR AREA M2	GROUND FLOOR AREA M2	2ND FLOOR AREA M2	MAJOR OCCUPANCY	COMBUSTIBILITY NC = NON C = COMBUSTIBLE	COMMENTS
115	Standby Power Plant	Edwards 1527	NO	YES	0	67.83	0	F2	NC	Standby generator within this building.
110	Pumphouse	none	NO	YES	0	45.71	0	F2	NC	Fire pumps located within this building. Existing fire alarm devices connected to fire alarm panel in Building 115.
212	Work Release	Edwards EST-1	NO	YES	0	80.99	0	A2	C	
104	Principal Entrance	Edwards EST-2	YES	YES	0	368.42	168.59	D	NC	Existing bldg 104 fire alarm panel is not connected to the site fire alarm system. Existing site fire alarm annunciator monitors all buildings except for building 104 and the annunciator is located within building 104.
213	Staff Fitness /ERT	Edwards EST-1	NO	YES	0	175.24	0	A2	C	
106	Administration	Edwards 6500	NO	YES	0	453.31	426.12	D	NC	
PV01	Private Family Visit Unit 01	Simplex 4010	NO	YES	0	97.19	0	C	C	
PV02	Private Family Visit Unit 02	Edwards EST-1	NO	YES	0	64.1	0	C	C	
107	Maintenance Building	Not installed	YES	NO	0	635	635	F2	NC	Make allowance for future building. Third level stairs/elevator 28 M
109	Healthcare / SCU	Edwards 6500	YES	YES	0	673.36	70.77	B2 / B1	NC	
206	Storage	Edwards Fire Shield	NO	YES	0	211.35	0	F2	C	
30	Central Stores	Edwards 6500	YES	YES	66.34	554.28	0	F2	C	
30a	Central Stores Flammable Storage Building	none	NO	YES	0	24.99	0	F2	C	
29	Chapel	Edwards Fire Shield	NO	YES	8.36	144.5	48.61	A2	C	
NU-B	NU-B Neighbourhood Unit	Simplex 4100U	YES	YES	0	256.07	0	D	C	
NB-U1	NB-U1 Living Unit	none	YES	YES	0	154.24	144.64	C	C	Existing fire alarm devices connected to fire alarm panel in Building NU-B. Provide new fire alarm panel.
NB-U2	NB-U2 Living Unit	none	YES	YES	0	154.24	144.64	C	C	Existing fire alarm devices connected to fire alarm panel in Building NU-B. Provide new fire alarm panel.
NB-U3	NB-U3 Living Unit	none	YES	YES	0	154.24	144.64	C	C	Existing fire alarm devices connected to fire alarm panel in Building NU-B. Provide new fire alarm panel.
NB-U4	NB-U4 Living Unit	none	YES	YES	0	154.24	144.64	C	C	Existing fire alarm devices connected to fire alarm panel in Building NU-B. Provide new fire alarm panel.
NU-E	NU-E Neighbourhood Unit	Simplex 4100U	YES	YES	0	256.07	0	D	C	
NE-U1	NE-U1 Living Unit	none	YES	YES	0	154.24	144.64	C	C	Existing fire alarm devices connected to fire alarm panel in Building NU-E. Provide new fire alarm panel.
NE-U2	NE-U2 Living Unit	none	YES	YES	0	154.24	144.64	C	C	Existing fire alarm devices connected to fire alarm panel in Building NU-E. Provide new fire alarm panel.
NE-U3	NE-U3 Living Unit	none	YES	YES	0	154.24	144.64	C	C	Existing fire alarm devices connected to fire alarm panel in Building NU-E. Provide new fire alarm panel.
NE-U4	NE-U4 Living Unit	none	YES	YES	0	154.24	144.64	C	C	Existing fire alarm devices connected to fire alarm panel in Building NU-E. Provide new fire alarm panel.
NU-C	NU-C Neighbourhood Unit	Simplex 4100U	YES	YES	0	256.07	0	D	C	
NC-U1	NC-U1 Living Unit	none	YES	YES	0	154.24	144.64	C	C	Existing fire alarm devices connected to fire alarm panel in Building NU-C. Provide new fire alarm panel.
NC-U2	NC-U2 Living Unit	none	YES	YES	0	154.24	144.64	C	C	Existing fire alarm devices connected to fire alarm panel in Building NU-C. Provide new fire alarm panel.
NC-U3	NC-U3 Living Unit	none	YES	YES	0	154.24	144.64	C	C	Existing fire alarm devices connected to fire alarm panel in Building NU-C. Provide new fire alarm panel.
NC-U4	NC-U4 Living Unit	none	YES	YES	0	154.24	144.64	C	C	Existing fire alarm devices connected to fire alarm panel in Building NU-C. Provide new fire alarm panel.
NU-F	NU-F Neighbourhood Unit	Simplex 4100U	YES	YES	0	256.07	0	D	C	
NE-U1	NE-U1 Living Unit	none	YES	YES	0	154.24	144.64	C	C	Existing fire alarm devices connected to fire alarm panel in Building NU-F. Provide new fire alarm panel.
NE-U2	NE-U2 Living Unit	none	YES	YES	0	154.24	144.64	C	C	Existing fire alarm devices connected to fire alarm panel in Building NU-F. Provide new fire alarm panel.
NE-U3	NE-U3 Living Unit	none	YES	YES	0	154.24	144.64	C	C	Existing fire alarm devices connected to fire alarm panel in Building NU-F. Provide new fire alarm panel.
NE-U4	NE-U4 Living Unit	none	YES	YES	0	154.24	144.64	C	C	Existing fire alarm devices connected to fire alarm panel in Building NU-F. Provide new fire alarm panel.
NU-A	NU-A Neighbourhood Unit	Simplex 4100U	YES	YES	0	256.07	0	D	C	
NA-U1	NA-U1 Living Unit	none	YES	YES	0	154.24	144.64	C	C	Existing fire alarm devices connected to fire alarm panel in Building NU-A. Provide new fire alarm panel.
NA-U2	NA-U2 Living Unit	none	YES	YES	0	154.24	144.64	C	C	Existing fire alarm devices connected to fire alarm panel in Building NU-A. Provide new fire alarm panel.
NA-U3	NA-U3 Living Unit	none	YES	YES	0	154.24	144.64	C	C	Existing fire alarm devices connected to fire alarm panel in Building NU-A. Provide new fire alarm panel.
NA-U4	NA-U4 Living Unit (Barrier-Free)	none	YES	YES	0	198.68	103.2	C	C	Barrier free living unit floor plan different than other living units.
215	Inmate Weight Lifting	Edwards EST-2	NO	YES	0	202.52	0	A2	C	
102	Library	Edwards 6602	NO	YES	0	238.63	227	A2	NC	
103	Inmate Training	Edwards 6500	NO	YES	274.59	1106.75	0	A2	NC	
200	Hobby Shop	Edwards 6601	NO	YES	0	319.51	0	F2	C	
214	Native Healing Centre	Edwards EST-2	NO	YES	0	280.6	0	A2	C	
101	Kitchen & Dining	Edwards 6500	NO	YES	381.14	561.74	0	A2	NC	Kitchen range hood suppression system.
108	Laundry/Institution Services	Edwards 1527	NO	YES	0	392.43	0	F2	NC	
105	Vocational Training Shops	Edwards 6500	YES	YES	0	1131.63	101.84	F2	NC	A portion of the bldg is sprinklered.
208	Greenhouse	Edwards 6602	NO	YES	0	332.83	0	F2	C	
B	Chief Maintenance Services	Edwards 6601	NO	NO	0	78.8	0	D	C	Connect existing fire alarm system to new site fire alarm system. Building will be demolished in the future.
D	Paint Shop	Edwards EST-1	NO	NO	0	95.4	0	F2	C	Connect existing fire alarm system to new site fire alarm system. Building will be demolished in the future.
03	Garage/Engineering/Carpenter's Shop	Edwards 6601	NO	YES	0	765.66	0	F2	C	
04	Plumber's Shop	Edwards 1527	NO	YES	0	72.82	0	F2	C	

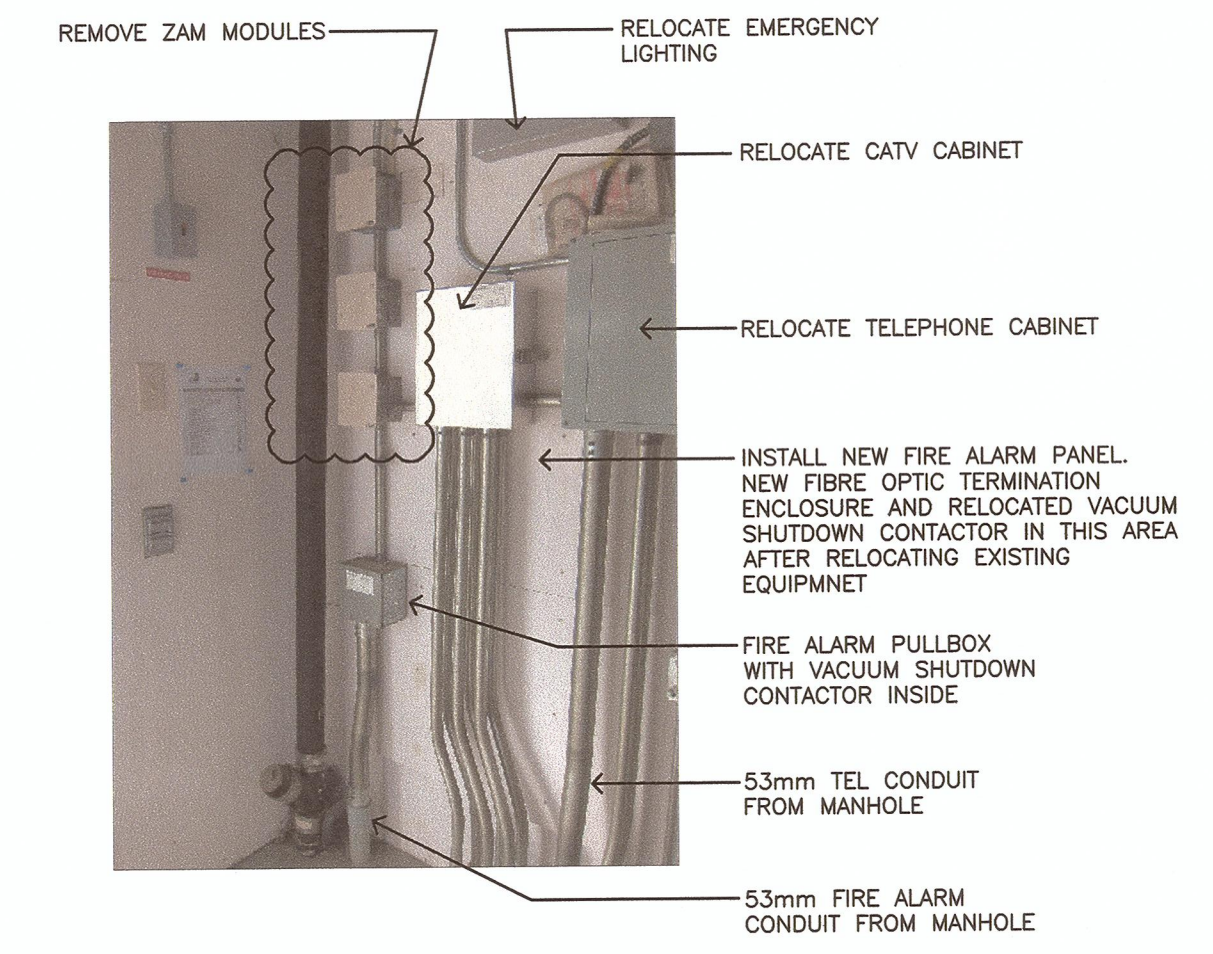


PHOTO OF LIVING UNIT NA LU1
TYPICAL EXISTING LAYOUT IN LIVING UNIT MECHANICAL ROOMS OF FIRE ALARM ZAM DEVICES AND CONDUIT
SCALE NTS

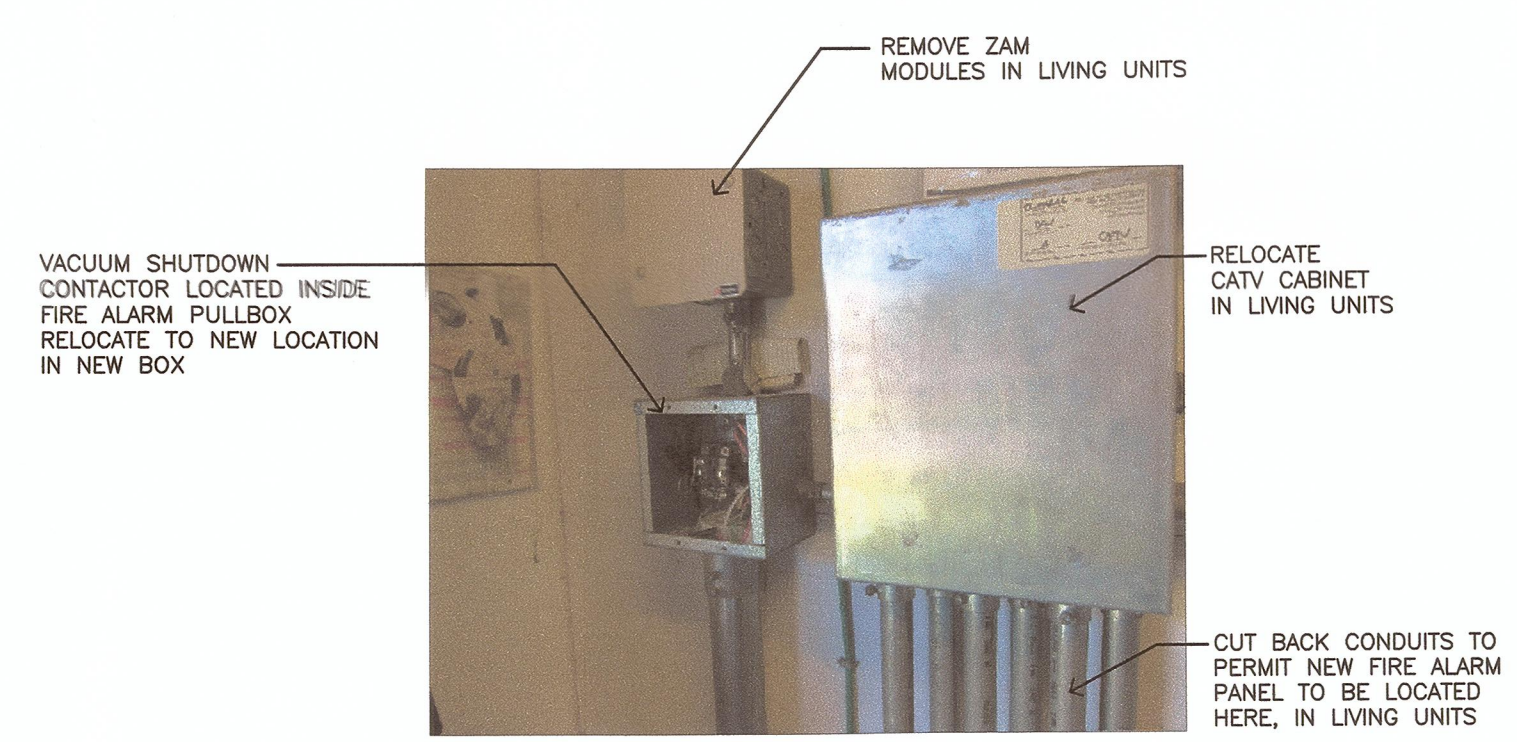
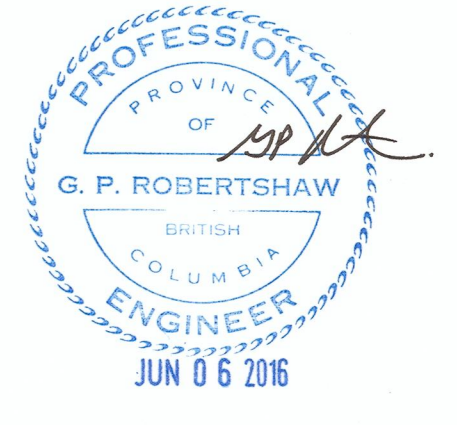


PHOTO OF LIVING UNIT NA LU4
TYPICAL EXISTING LIVING UNIT AND NEIGHBOURHOOD BLDG VACUUM SHUTDOWN CONTACTOR
SCALE NTS

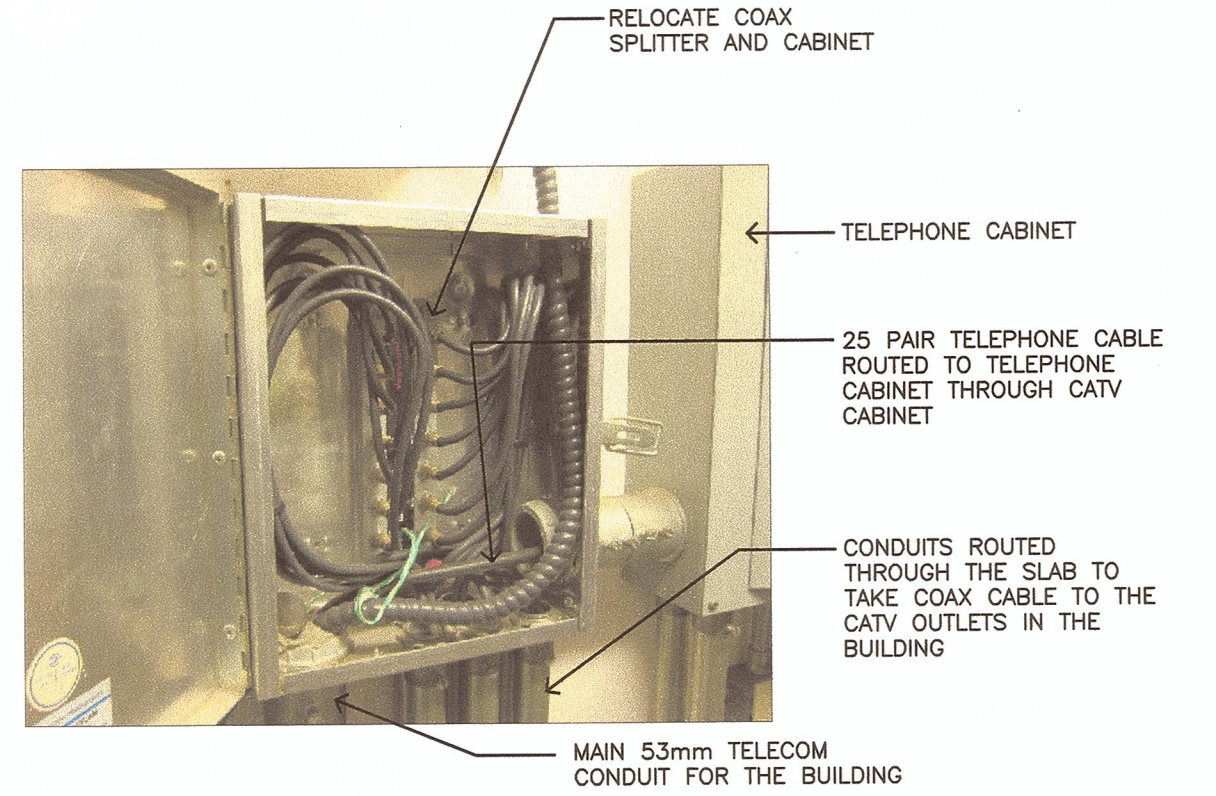


PHOTO OF LIVING UNIT NE LU4
TYPICAL EXISTING LIVING UNIT CATV CABINET LAYOUT
SCALE NTS

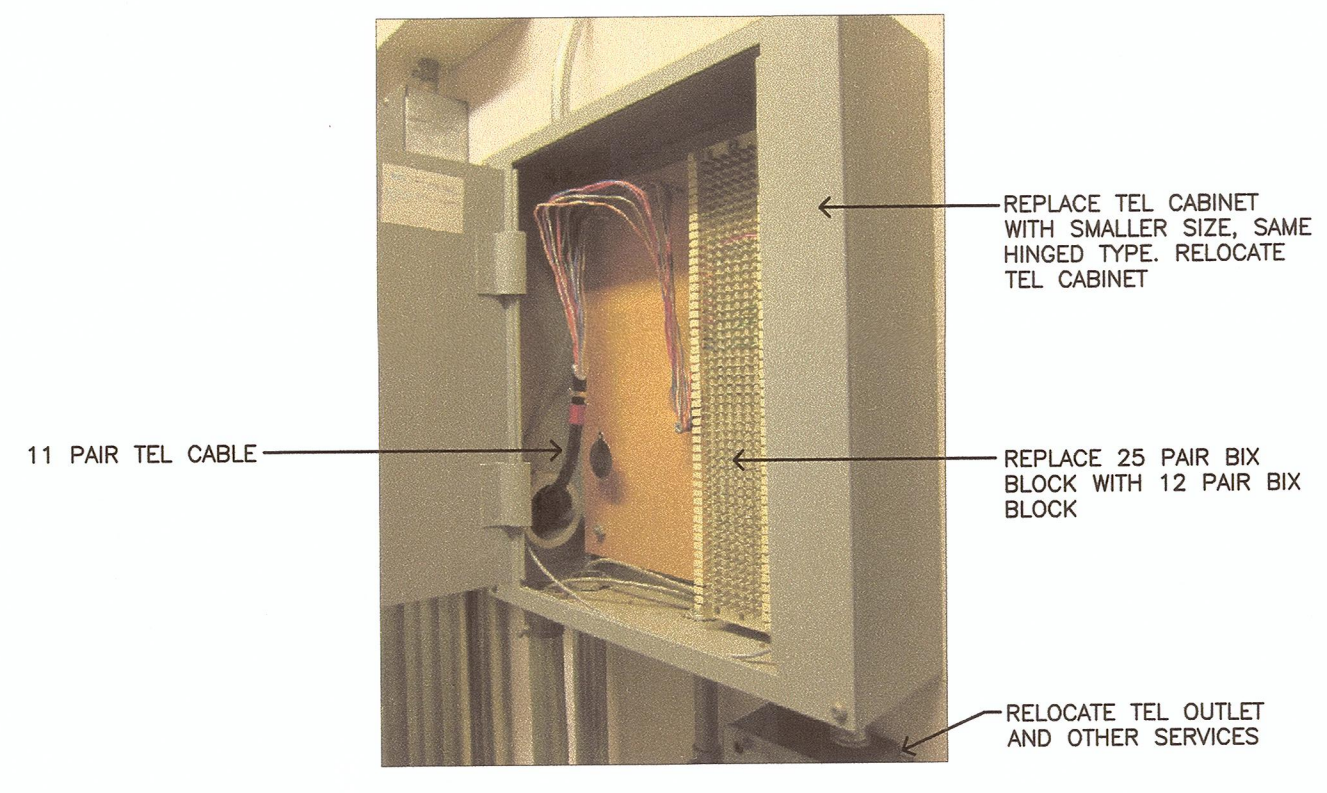


PHOTO OF LIVING UNIT NE LU4
TYPICAL EXISTING LIVING UNIT TEL CABINET
SCALE NTS

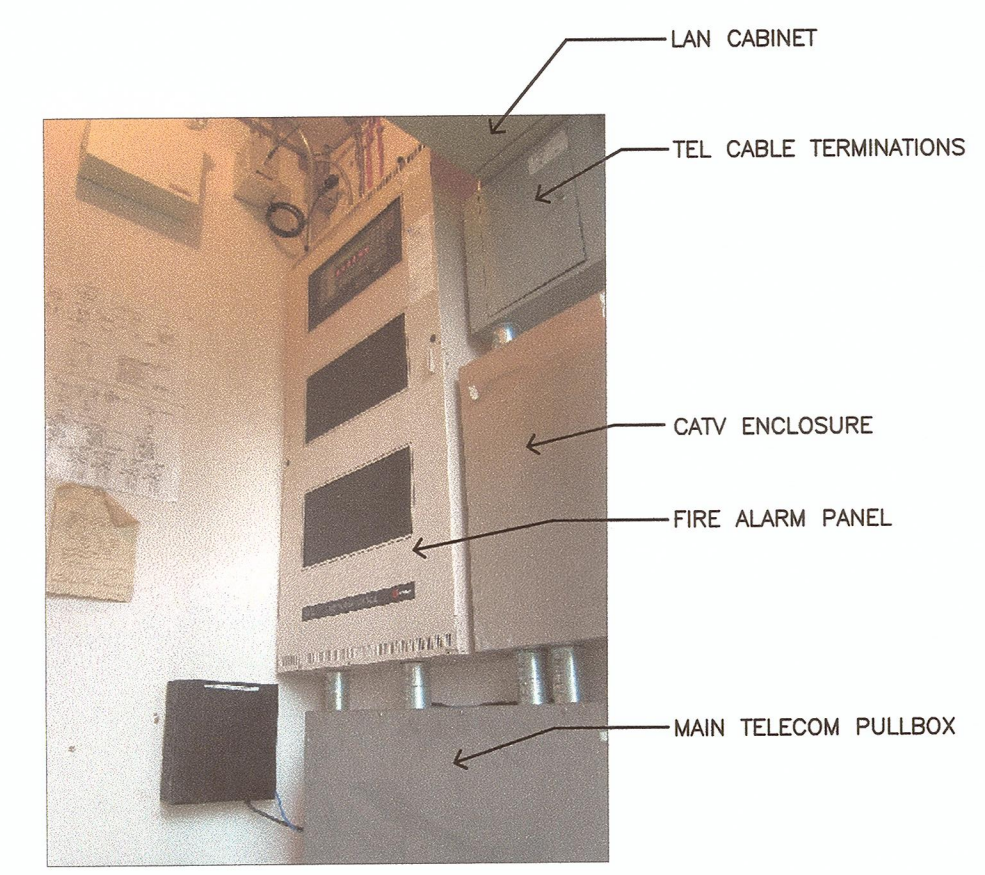
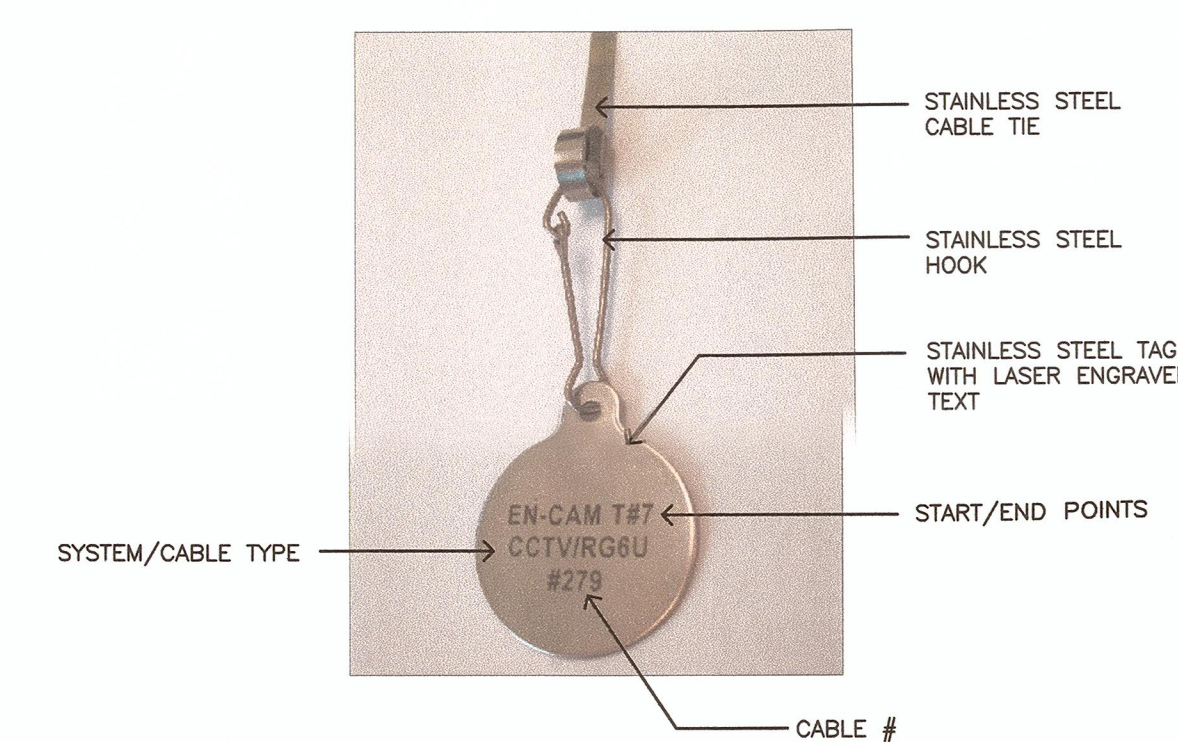


PHOTO OF BUILDING NUA
TYPICAL EXISTING NEIGHBOURHOOD BUILDING ELECTRICAL ROOM
SCALE NTS

NOTES
1. EXISTING NEIGHBOURHOOD BLDG SIMPLEX 4100U FIRE ALARM PANELS ARE LOCATED WITHIN A SIMPLEX 4100 ENCLOSURE WITH NO WIDTH CLEARANCE TO ADJACENT EQUIPMENT. THE OUTSIDE DIMENSIONS OF THE ENCLOSURE ARE W 660mm x H 1320mm x D 180mm. INSTALL NEW FIRE ALARM PANELS WITHIN THIS SPACE.



STAINLESS STEEL CABLE ID TAG
SCALE NTS

NOTES
1. PROVIDE STAINLESS STEEL CABLE ID TAGS ON ALL CABLES INSTALLED BETWEEN BUILDINGS. PROVIDE TAGS IN ALL MANHOLES, PULLPITS AND WHERE CABLE TERMINATES IN THE BUILDING.
2. COORDINATE CABLE ID NUMBER WITH DEPARTMENTAL REPRESENTATIVE.
3. SUBMIT SPREADSHEET WITH ALL PROPOSED TEXT FOR ALL TAGS.
4. SUBMIT SAMPLE TAG ASSEMBLY.
5. ENSURE THERE ARE NO SHARP EDGES ON THE CABLE TIES AFTER THE TIES ARE CUT. GRIND EDGES.



TYPICAL CONCRETE PANELS COVERING ABANDONED STEAM TUNNELS
SCALE NTS

NOTES
1. PHOTO SHOWN OF EXISTING STEAM TUNNEL BETWEEN BUILDINGS 103 AND 101.
2. BACK HOE IS REQUIRED TO REMOVE PANELS.
3. TUNNELS ARE USED TO HOUSE COMMUNICATION DUCTS.

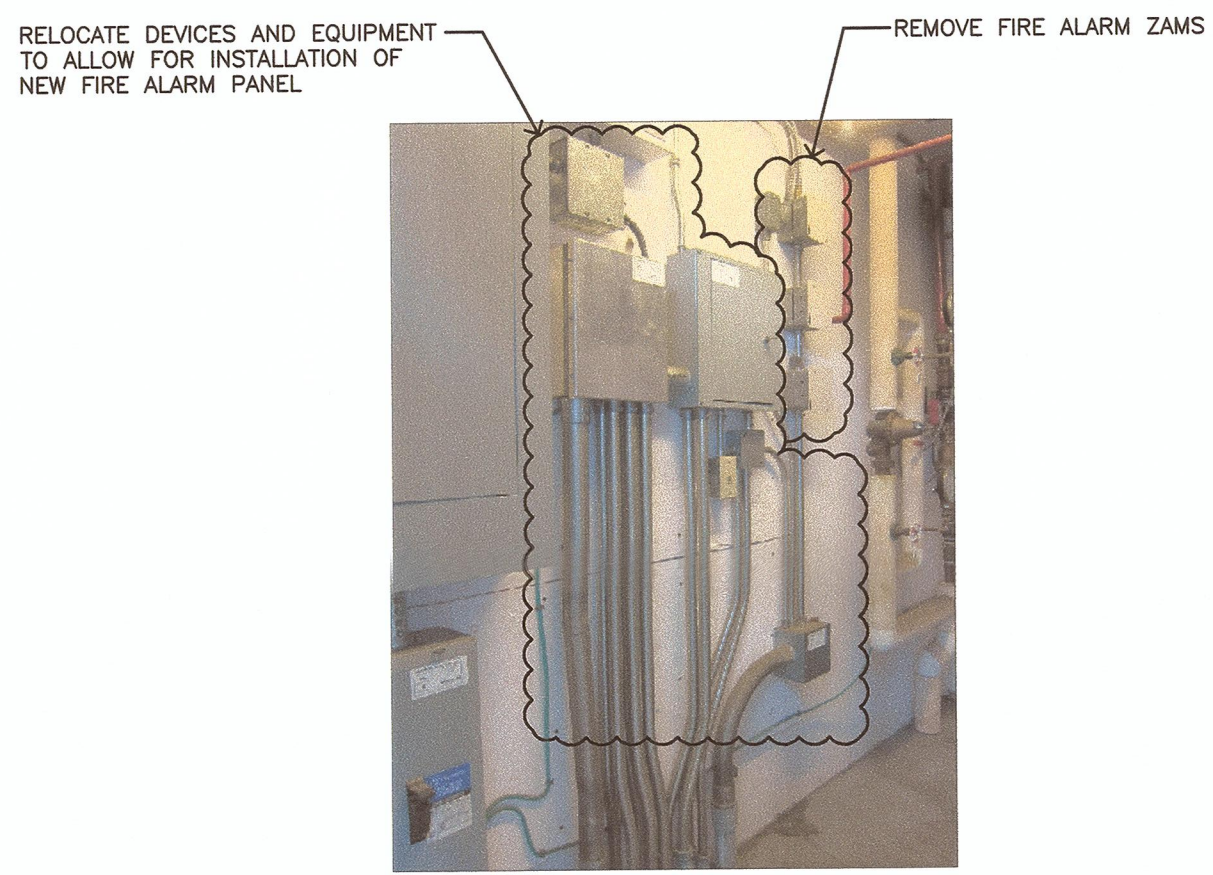


PHOTO OF LIVING UNIT NE LU4
TYPICAL EXISTING LAYOUT IN LIVING UNIT MECHANICAL ROOMS OF EQUIPMENT TO BE RELOCATED AND REMOVED FOR NEW FIRE ALARM PANEL
SCALE NTS

NOTES FOR LIVING UNIT MECHANICAL ROOMS
1. RELOCATE EXISTING EQUIPMENT, DEVICES AND CONDUIT IN THE MECHANICAL ROOMS TO ALLOW SPACE FOR THE NEW FIRE ALARM PANELS.
2. THE EXACT LAYOUT OF EQUIPMENT IS SLIGHTLY DIFFERENT IN EACH MECHANICAL ROOM, BUT GENERALLY FOLLOWS AN OVERALL PATTERN.
3. THERE WILL BE A REQUIREMENT TO TEMPORARILY DISCONNECT SERVICES WITHIN THE MECHANICAL ROOMS AND THIS WILL AFFECT THE OCCUPANTS OF THE BUILDINGS. PROVIDE A PLAN TO THE DEPARTMENTAL REPRESENTATIVE FOR SERVICE DISRUPTIONS. MINIMIZE SERVICE DISRUPTIONS.
4. PROVIDE A PLAN AND SKETCHES OF HOW THE NEW FIRE ALARM PANEL AND EXISTING EQUIPMENT WILL BE LOCATED.
5. THERE IS ADEQUATE SPACE TO RELOCATE THE EXISTING EQUIPMENT AND INSTALL THE NEW FIRE ALARM PANEL.
6. REMOVE THE EXISTING SIMPLEX ZAM FIRE ALARM MODULES, THREE PER LIVING UNIT.
7. RELOCATE THE EXISTING VACUUM SHUT-DOWN CONTACTOR FROM THE FIRE ALARM PULL BOX TO A DIFFERENT LOCATION WITHIN A NEW BOX. THE VACUUM UNIT IS LOCATED WITHIN THE SAME MECHANICAL ROOM. HOOK UP THE VACUUM SHUT DOWN TO THE FIRE ALARM SYSTEM. TEST UNIT TO MAKE SURE THE VACUUM SHUTS DOWN UPON FIRE ALARM ACTIVATION.
8. RELOCATE TELEPHONE OUTLET, TELEPHONE CABINET, CATV CABINET, EMERGENCY LIGHTING BATTERY PACK, VACUUM SHUTDOWN CONTACTOR. CUT OFF CONDUITS AS REQUIRED. NOTE REQUIREMENT FOR NEW TELEPHONE CABINET AND NEW SIX BLOCK. RELOCATE MISS BOXES, CABLES AND OTHER ITEMS AS REQUIRED. RESTORE ALL SERVICES.
9. THERE ARE A TOTAL OF 20 LIVING UNITS.

Revision/Revision	Description/Description	Date/Date
5		
4		
3	ISSUED FOR TENDER	31MAY2016
2	100% REVIEW	09MAY2016
1	99% REVIEW	09FEB2016
0	95% REVIEW	21MAY2015

CORRECTIONAL SERVICE CANADA

Project title/Titre du projet

**WILLIAM HEAD INSTITUTION
FIRE ALARM REPLACEMENT**

Consultant Signature Box Only

Designed by/Concept par
Greg Robertshaw

Drawn by/Dessiné par
Steve Banfield

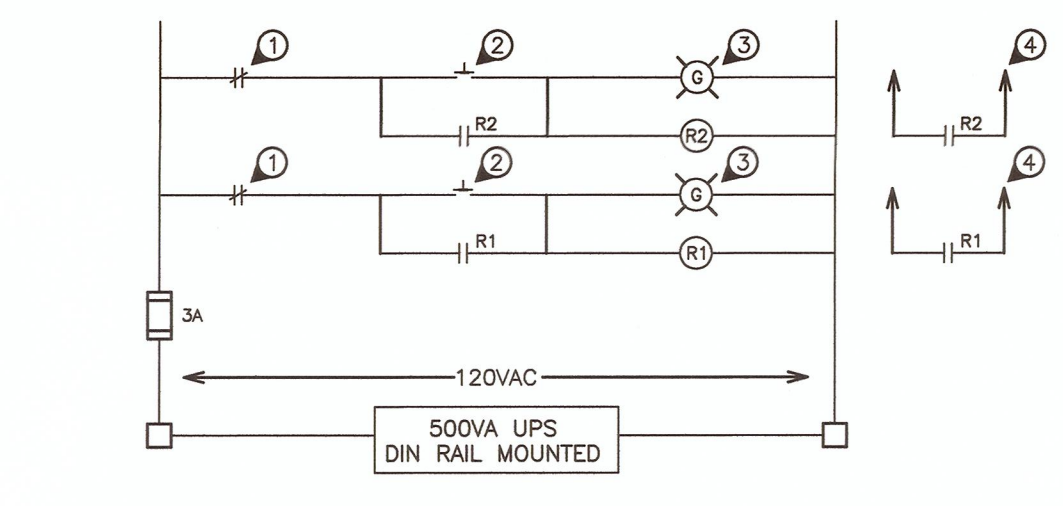
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Gestionnaire régionale, Services d'architecture et de génie, TPSGC
P. Paul

Drawing title/Titre du dessin

DETAILS AND SPREADSHEET

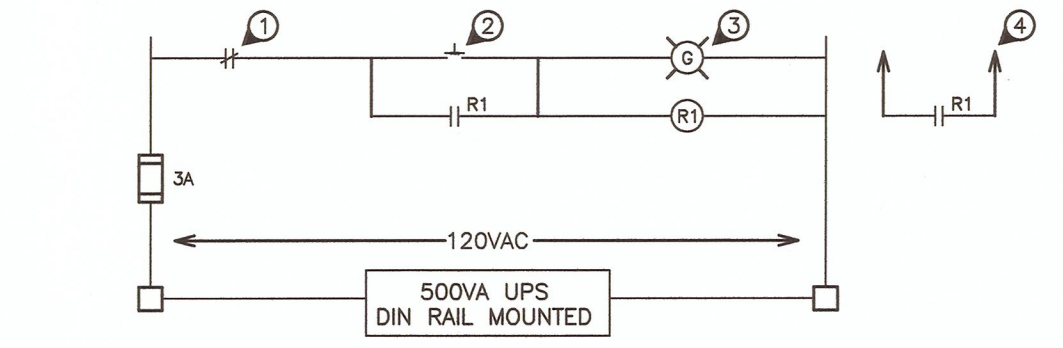
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BLDG 106
FAN SHUT DOWN CONTROLS
SCALE NTS

- DRAWING NOTES:**
1. FIRE ALARM DRY CONTACT FROM ADDRESSABLE RELAY MODULE, RATED FOR 120VAC, AT LEAST 3A INDUCTIVE.
 2. NORMALLY OPEN PUSH TO OPERATE SWITCH FOR HOLDING CIRCUIT. PUSH SWITCH TO START REMOTE HVAC EQUIPMENT.
 3. GREEN LED INDICATING LIGHT.
 4. CONNECT NEW CONTACTS TO EXISTING HVAC CONTROL WIRING.

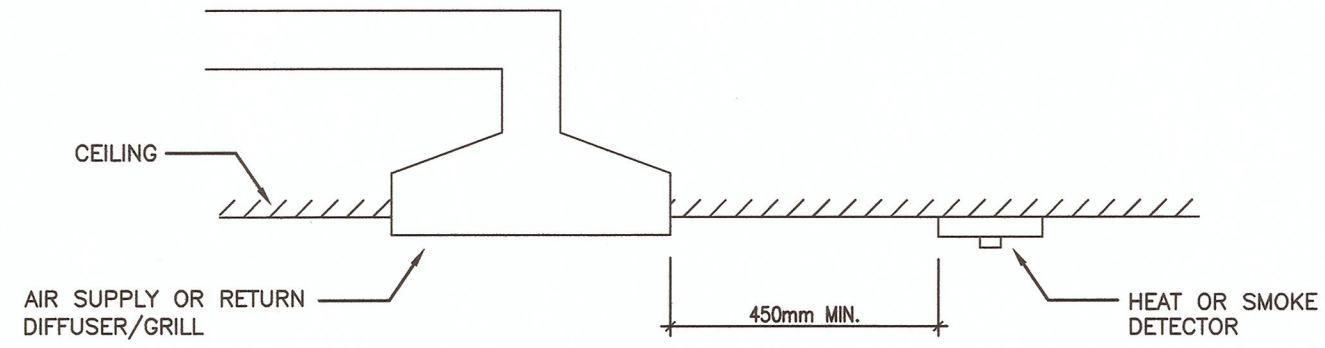
- NOTES:**
1. CONTROL SYSTEM IS INTENDED TO SHUT DOWN REMOTE HVAC EQUIPMENT UPON SIGNAL FROM THE FIRE ALARM SYSTEM.
 2. HVAC CONTROL WIRING FOR THE HVAC CONTACTORS (2) HAVE BEEN INSTALLED AND TERMINATED IN THE ELECTRICAL ROOM. CONNECT TO THIS WIRING AND TEST CIRCUITS.
 3. PROVIDE NEW 120V 15A CIRCUIT FROM PANEL IN ELECTRICAL ROOM FOR CONTROLS.
 4. MOUNT ALL CONTROLS IN A SINGLE ENCLOSURE. PROVIDE LAMICOID LABELS IDENTIFYING THE HVAC EQUIPMENT ADJACENT TO EACH SWITCH AND LED.



BLDG 101
FAN SHUT DOWN CONTROLS
SCALE NTS

- DRAWING NOTES:**
1. FIRE ALARM DRY CONTACT FROM ADDRESSABLE RELAY MODULE, RATED FOR 120VAC, AT LEAST 3A INDUCTIVE.
 2. NORMALLY OPEN PUSH TO OPERATE SWITCH FOR HOLDING CIRCUIT. PUSH SWITCH TO START REMOTE HVAC EQUIPMENT.
 3. GREEN LED INDICATING LIGHT.
 4. CONNECT NEW CONTACTS TO EXISTING HVAC CONTROL WIRING.

- NOTES:**
1. CONTROL SYSTEM IS INTENDED TO SHUT DOWN REMOTE HVAC EQUIPMENT UPON SIGNAL FROM THE FIRE ALARM SYSTEM.
 2. CONNECT TO EXISTING FAN MAG-STARTER AND TEST CIRCUITS.
 3. USE EXISTING 120V 15A CIRCUIT.
 4. MOUNT ALL CONTROLS IN A SINGLE ENCLOSURE. PROVIDE LAMICOID LABELS IDENTIFYING THE HVAC EQUIPMENT ADJACENT TO EACH SWITCH AND LED.



INSTALLATION OF HEAT AND SMOKE DETECTORS NEAR AIR SUPPLY AND RETURN DIFFUSERS/GRILLS
SCALE NTS

- NOTES:**
1. LOCATIONS OF HEAT AND SMOKE DETECTORS SHOWN ON DRAWINGS IS APPROXIMATE. INSTALL ALL HEAT AND SMOKE DETECTORS AT LEAST 450mm FROM AIR SUPPLY AND RETURN DIFFUSERS/GRILLS

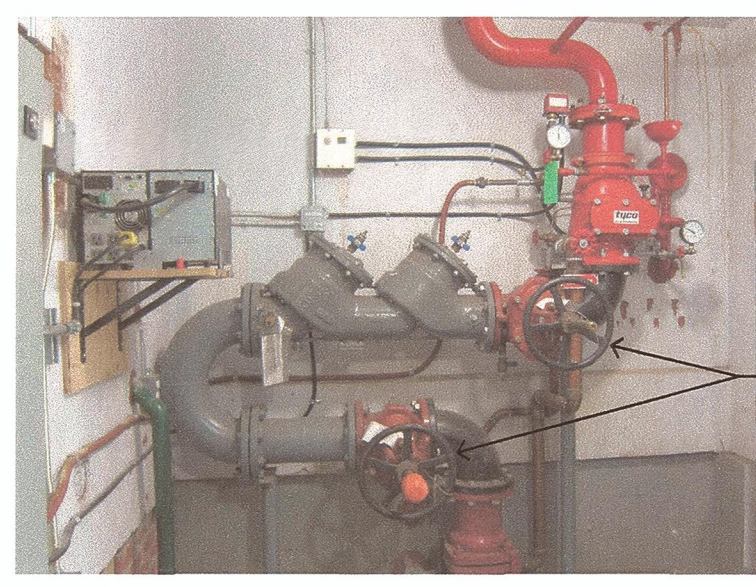


PHOTO OF BUILDING 30 - ROOM 106
EXISTING SPRINKLER LAYOUT
SCALE NTS

- NOTES:**
1. REMOVE EXISTING CHAIN AND PADLOCK ON TWO EXISTING SPRINKLER VALVES. TURN OVER PADLOCKS TO DEPARTMENTAL REPRESENTATIVE.

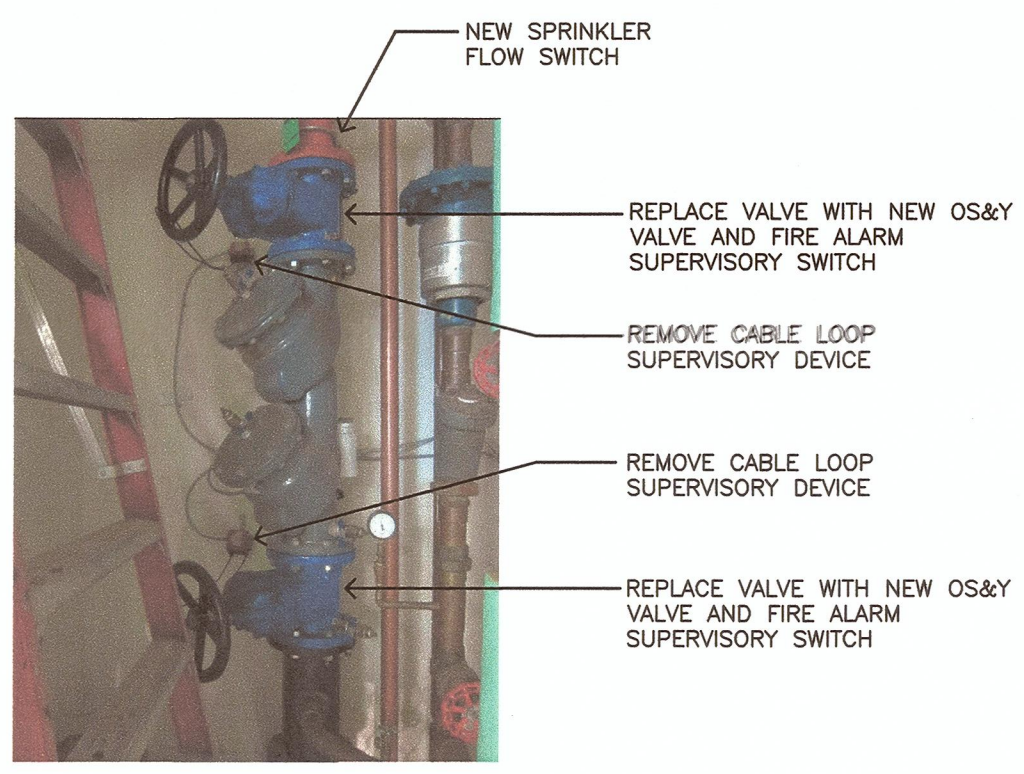


PHOTO OF BUILDING 105 - ROOM 132
EXISTING SPRINKLER LAYOUT
SCALE NTS

- NOTES:**
1. EXISTING SPRINKLER SYSTEM IS NOT EQUIPPED WITH A FLOW SWITCH.



Revision/Revision	Description/Description	Date/Date
5		
4		
3	ISSUED FOR TENDER	31MAY2016
2	100% REVIEW	08MAY2016
1	99% REVIEW	09FEB2016
0	66% REVIEW	21MAY2015

Client/client
CORRECTIONAL SERVICE CANADA

Project title/Titre du projet
**WILLIAM HEAD INSTITUTION
FIRE ALARM
REPLACEMENT**

Consultant Signature Box Only

Designed by/Concept par
Greg Robertshaw

Drawn by/Dessiné par
Steve Banfield

PWGSC Project Manager/Administrateur de Projets TPSGC
P. Truong

PWGSC, Regional Manager, Architectural and Engineering Services/
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P. Paul

Drawing title/Titre du dessin
DETAILS - 2

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