# SUNSHINE COAST REGIONAL DISTRICT GARDEN BAY UV BUILDING

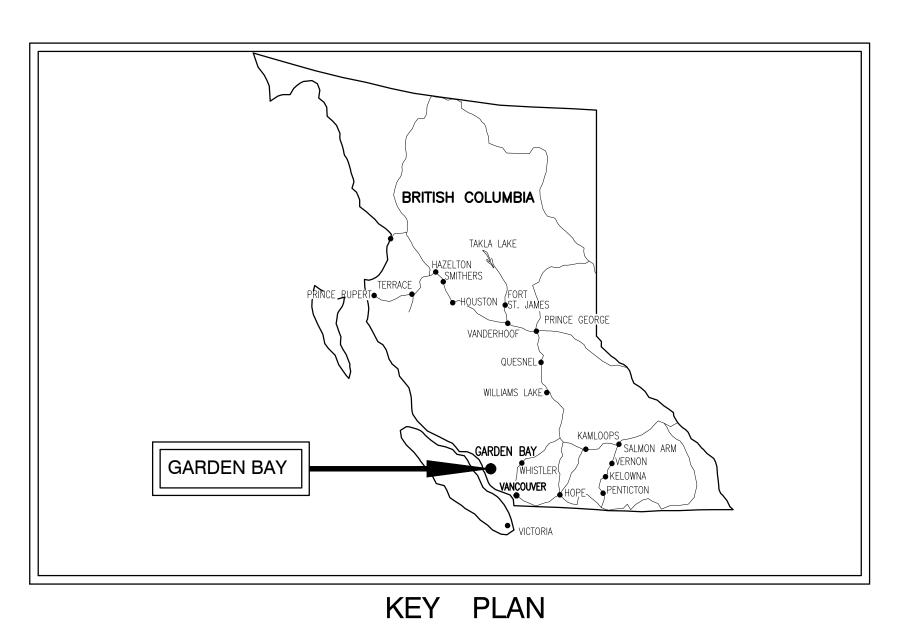
CONTRACT No. 12-175

RECORD DRAWINGS



AREA PLAN

	INDEX TO DRAWINGS	(TOT	TAL DRAWINGS = 19)
No.	TITLE	No.	TITLE
	GENERAL		ELECTRICAL
G1	KEY PLAN — AREA PLAN — INDEX TO DRAWINGS	E1 E2	ELECTRICAL — SINGLE LINE DIAGRAM & MISCELLANIOUS DETAILS  ELECTRICAL — LIGHTING, UTILITY, POWER AND CONTROL LAYOUT
	PROCESS AND INSTRUMENTATION	E3 E4	ELECTRICAL — PLC NEW I/O  ELECTRICAL — PLC LAYOUT / COMMUNICATION BLOCK DIAGRAM
P1	STANDARD TAGS AND ABBREVIATIONS		ELLEVITOR DE LA
P2	P&ID STANDARD SYMBOLS, EQUIPMENT, VALVES AND INSTRUMENTATION		
P3	PROCESS AND INSTRUMENTATION DIAGRAM		
	ARCHITECTURAL		
A1	ARCHITECTURAL — WEST ELEVATION		
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	STRUCTURAL		
S1	GENERAL CONSTRUCTION NOTES		
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	MECHANICAL		
M1	MECHANICAL - PLANS		
M2	MECHANICAL - SECTIONS		
	HVAC		
H1	HVAC - PLANS & SECTION		



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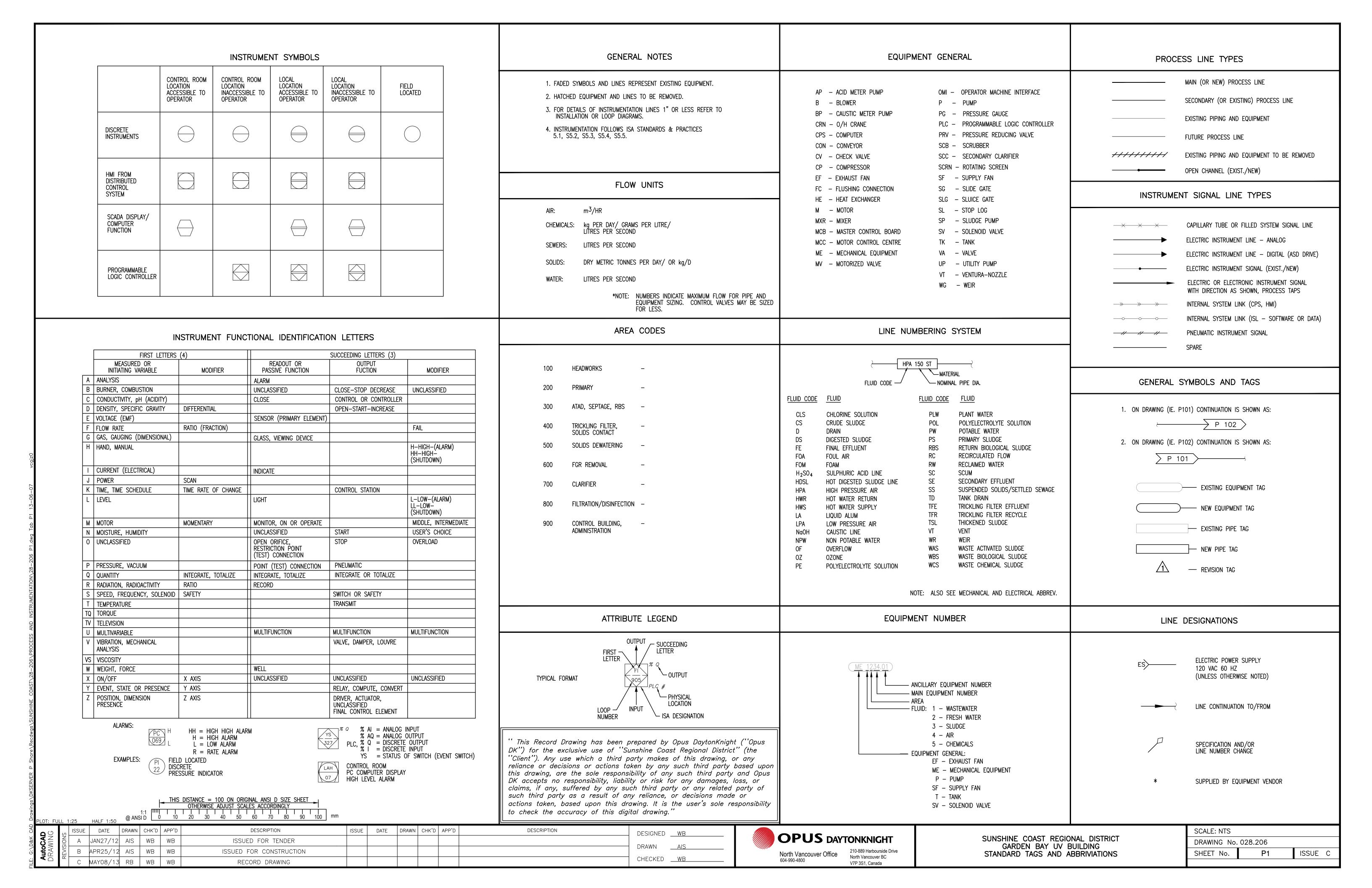
CONTRACT No. 12-175

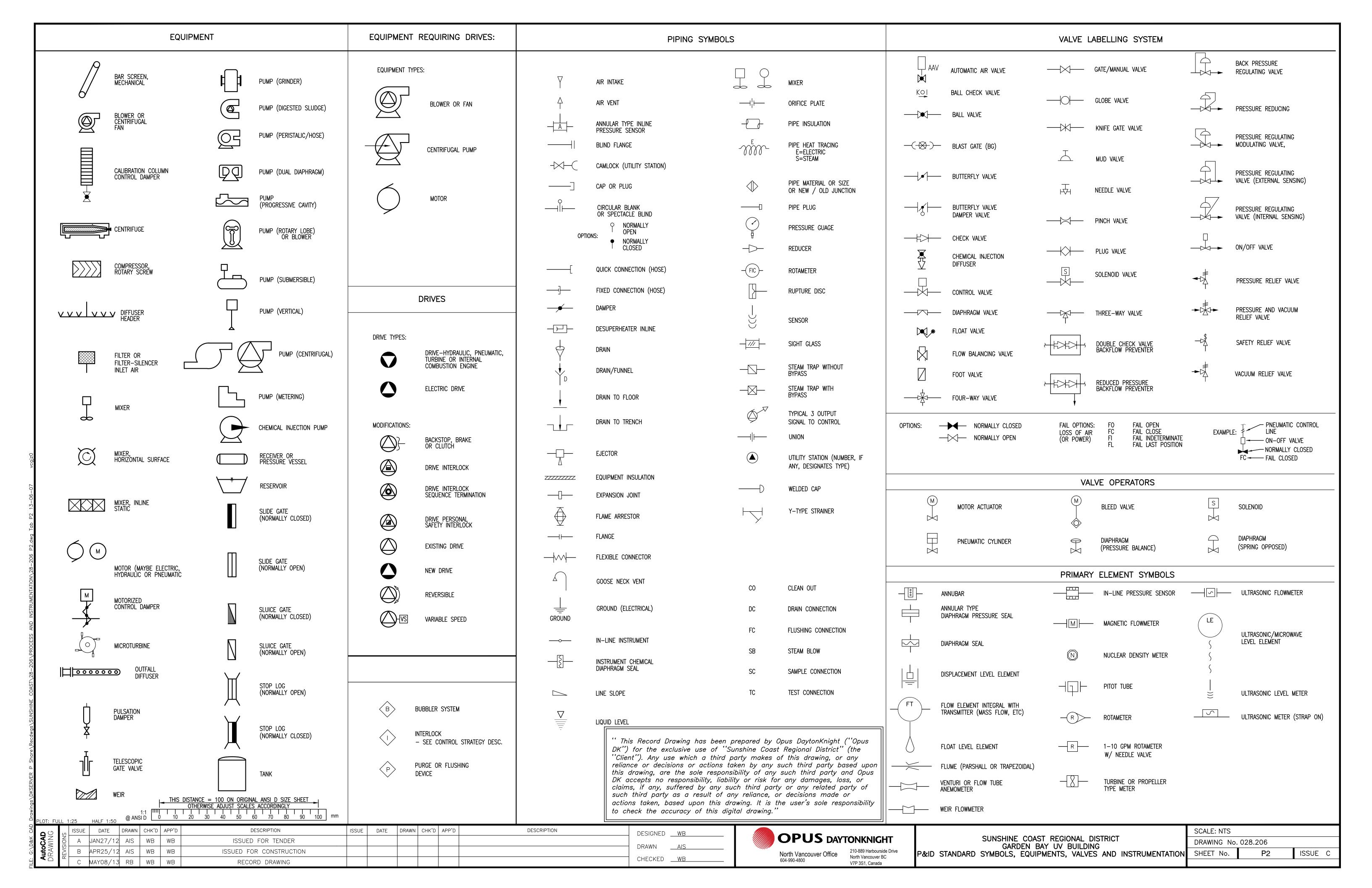
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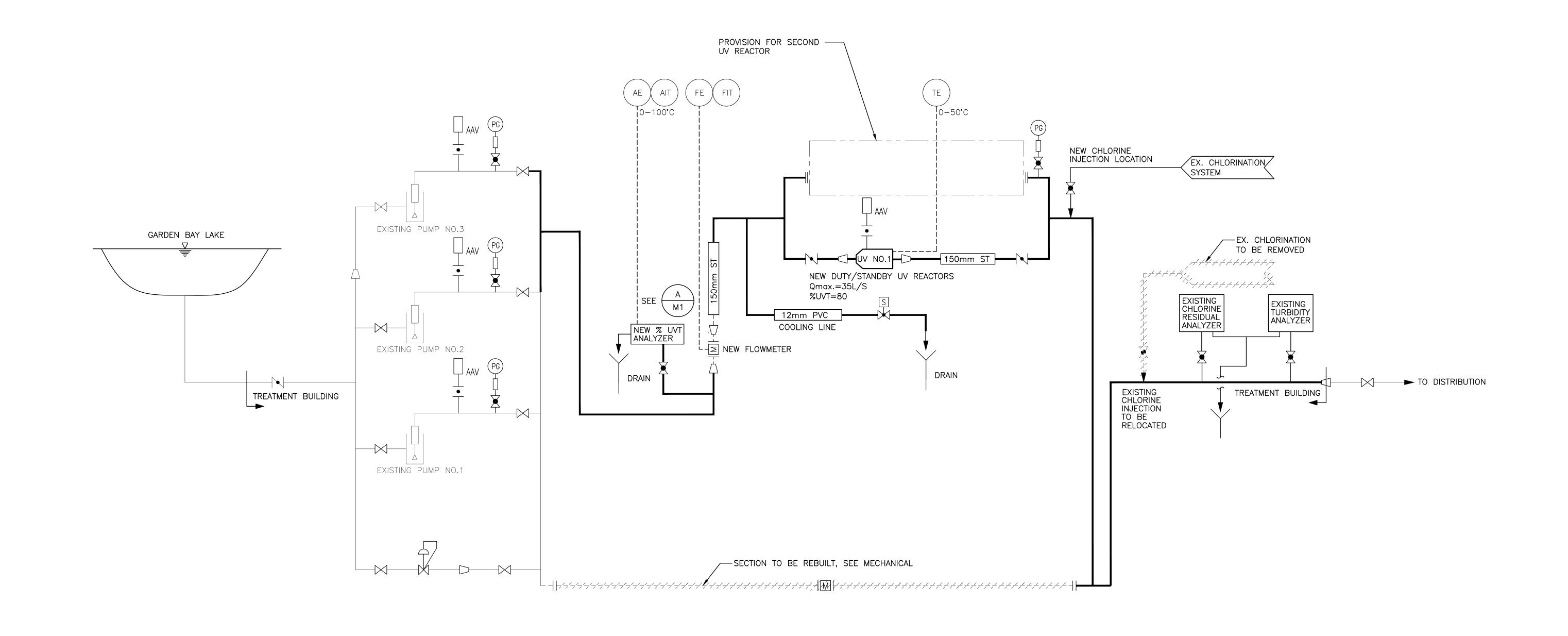
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SCALE: AS SHOWN								
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THIS DISTANCE = 100 ON ORIGINAL ANSI D SIZE SHEET

OTHERWISE ADJUST SCALES ACCORDINGLY

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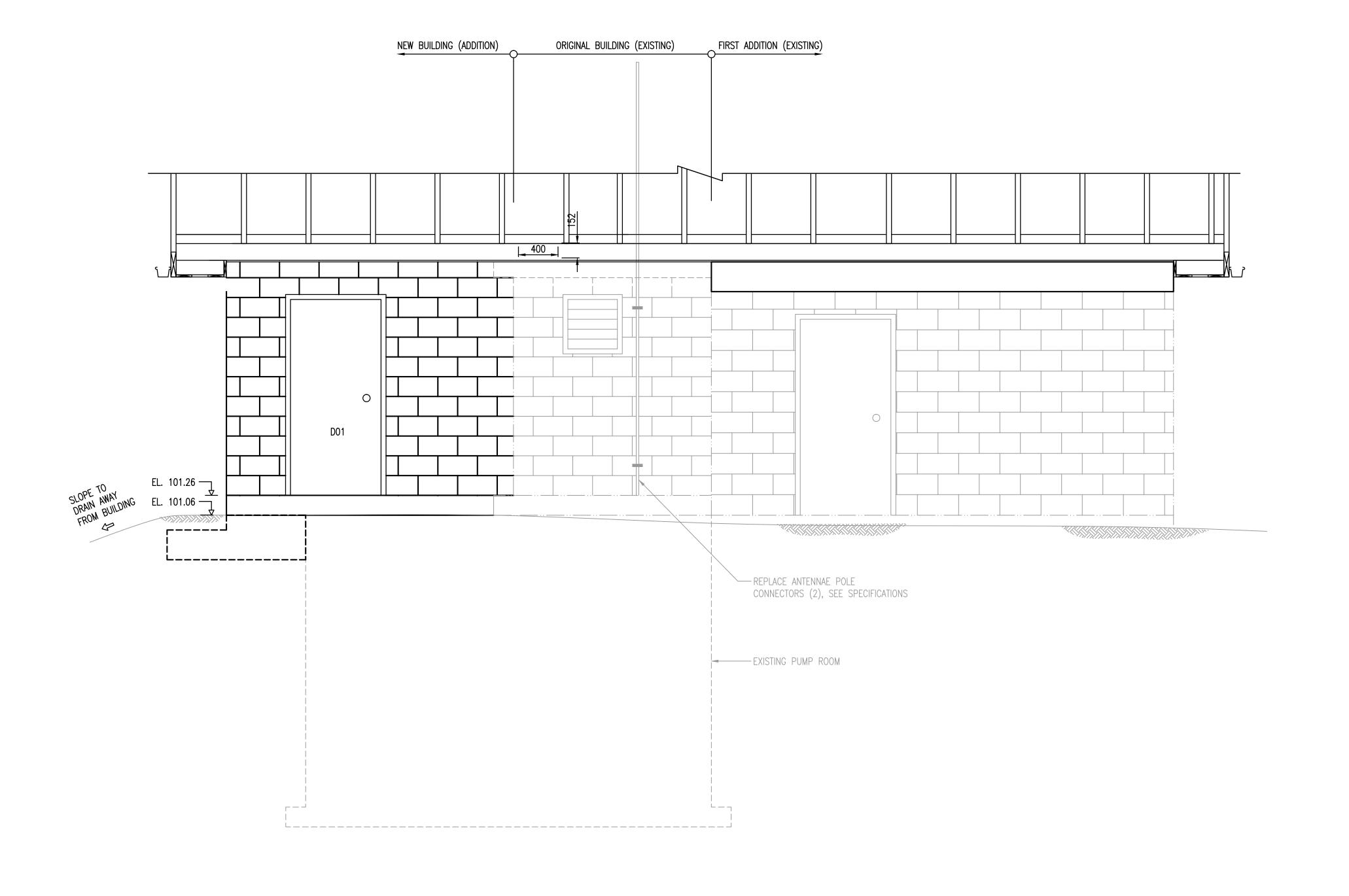
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SUNSHINE COAST REGIONAL DISTRICT GARDEN BAY UV BUILDING	DRAWING No.
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	SCALE: NTS					
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WEST ELEVATION
1:25

	DO	OR SCHEDU	LE	
DOOR NO.	WIDTH	HEIGHT	THICK	FRAME
D01	915	2032	45	50 x 146

1. SEE SPECIFICATION FOR MATERIALS AND HARDWARE.

|| Note

THE BOTTOM OF THE PARAPET WALL SHALL BE ALIGNED AT AN ELEVATION THAT WILL MEET THE FOLLOWING CLEARANCES:

— MIN. 25mm ABOVE NEW DOOR FRAME

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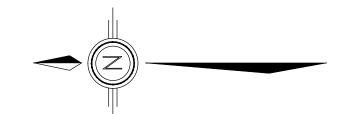
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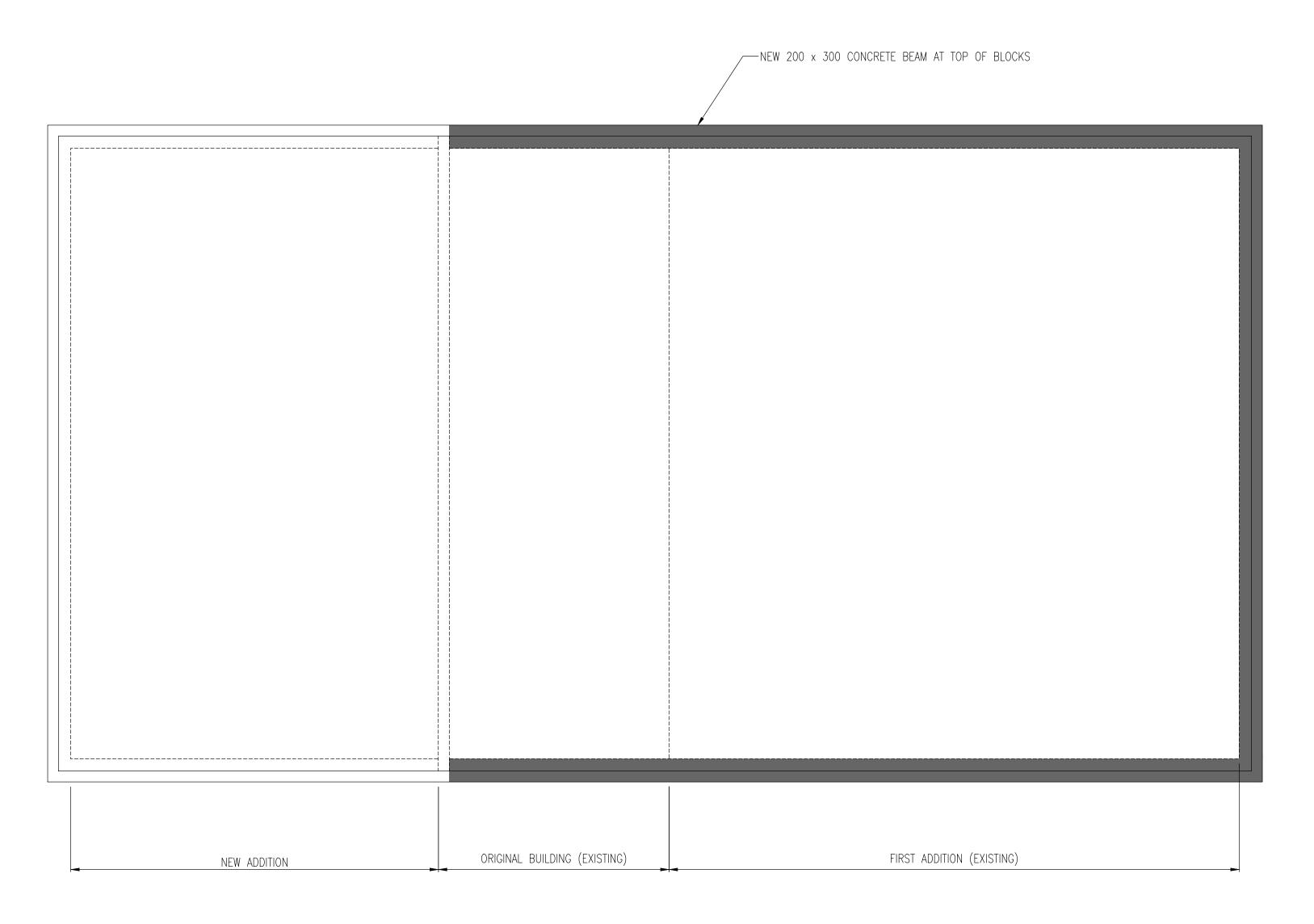
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SUNSHINE COAST REGIONAL DISTRICT GARDEN BAY UV BUILDING ARCHITECTURAL — WEST ELEVATION

SCALE: AS SH			
DRAWING No.			
SHEET No.	A1	ISSUE	С





ROOF PLAN 1:25

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OTHERWISE ADJUST SCALES ACCORDINGLY

1:1

PLOT: FULL 1:25

HALF 1:50

ANSI D

O 10 20 30 40 50 60 70 80 90 100 mm

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SUNSHINE COAST	REGIONAL DISTRICT	
GARDEN BAY	'UV BUILDING	
ARCHITECTURAL	_ — ROOF PLAN	

SCALE: AS SH	HOWN						
DRAWING No. 028.206							
SHEET No.	A2	ISSUE C					

#### **GENERAL CONSTRUCTION NOTES**

#### GENERAL NOTES

- . **SCOPE:** THE NOTES AND DETAILS ON THIS SHEET ARE GENERAL AND APPLY TO THE ENTIRE PROJECT EXCEPT WHERE THERE ARE SPECIFIC INDICATIONS TO THE CONTRARY.
- 2. APPLICABLE SPECIFICATIONS AND CODES: CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL BUILDING CODE EXCEPT WHERE OTHER APPLICABLE CODES OR THE FOLLOWING NOTES ARE MORE RESTRICTIVE.
- 3. **DIMENSIONS**: STRUCTURAL DIMENSIONS CONTROLLED BY OR RELATED TO MECHANICAL OR ELECTRICAL EQUIPMENT SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO
- PROVISIONS FOR EQUIPMENT: MECHANICAL AND ELECTRICAL EQUIPMENT SUPPORTS, ANCHORAGES, OPENINGS, RECESSES AND REVEALS NOT SHOWN ON THE STRUCTURAL DRAWINGS BUT REQUIRED BY OTHER CONTRACT DRAWINGS SHALL BE PROVIDED FOR PRIOR TO CASTING CONCRETE.
- 5. CONSTRUCTION LOADS: STRUCTURES HAVE BEEN DESIGNED FOR OPERATION LOADS ON THE COMPLETED STRUCTURES. DURING CONSTRUCTION, THE STRUCTURES SHALL BE PROTECTED BY BRACING AND BALANCING WHEREVER EXCESSIVE CONSTRUCTION LOADS MAY OCCUR. ALL TEMPORARY AND PERMANENT SURCHARGE LOADS SHALL BE CONSIDERED.
- 6. THE CONTRACTOR IS RESPONSIBLE FOR SHORING AND UNDERPINNING. DOCUMENTS RELATING TO THIS WORK SHALL BE SEALED AND SIGNED BY A BRITISH COLUMBIA PROFESSIONAL ENGINEER.
- 7. DRAINAGE SURFACES: FLOOR ELEVATIONS SHOWN ON CONCRETE OUTLINE DRAWINGS ARE PERIMETER ELEVATIONS FOR STRUCTURAL SLABS AND MAY NOT INDICATE FLOOR SLOPES, TOPPING OR FLOOR ELEVATIONS. FOR AREAS REQUIRING FLOOR SLOPES, TOPPING AND FLOOR DRAIN (ELEVATIONS AND LOCATIONS), SEE ARCHITECTURAL AND MECHANICAL DRAWINGS.

	BAR SIZE	1	IGHT EMBEDMENT LENGTHS (mm)	MINIMUM TENSION EMBEDMENT WITH STANDARD END HOOKS
		COMPRESSION	TENSION	E E
$f_c = 30 \text{ MPa}$ $f_y = 400 \text{ MPa}$	10M 15M 20M 25M 30M	200 280 340 440 530	300 450 600 1000 1200	200 200 220 450 630

	BAR SIZE	LAP SPLICE	LENGTHS (mm)
MPa MPa		TENSION	COMPRESSION
$f_c = 30 \text{ M}$ $f_y = 400 \text{ M}$	10M 15M 20M 25M 30M	400 600 800 1200 1600	300 450 600 750 900

#### NOTES:

- 1. FOR LOCATION OF PIPING, FLOOR DRAINS, ELECTRICAL / INSTRUMENTATION CONDUIT, VENTILATION DUCTS WHICH PASS THROUGH CONCRETE SLABS, WALLS AND/OR ROOFS, REFER TO THE MECHANICAL, VENTILATION, ELECTRICAL AND INSTRUMENTATION DRAWINGS TO COORDINATE THIS PART OF THE WORK.
- 2. FOR DETAILS OF NEW FOUNDATION DRAINS, WHICH PASS UNDERNEATH NEW CONCRETE SLABS REFER TO GENERAL DRAWINGS, UNLESS NOTED OTHERWISE IN SPECIFICATIONS.

THIS DISTANCE = 100 ON ORIGINAL ANSI D SIZE SHEET

OTHERWISE ADJUST SCALES ACCORDINGLY

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0 10 20 30 40 50 60 70 80 90 100 mm

- STEEL
- 1. APPLICABLE SPECIFICATIONS AND CODES: STEEL CONSTRUCTION SHALL CONFORM TO CSA S16 "STEEL STRUCTURES FOR BUILDINGS" AS CONTAINED IN THE NATIONAL BUILDING CODE.
- 2. **BOLTED JOINTS** EXCEPT FOR BOLTS ANCHORED IN CONCRETE, BOLTED JOINTS SHALL CONFORM TO THE SPECIFICATIONS OF THE CANADIAN INSTITUTE OF STEEL CONSTRUCTION. BOLTS SHALL BE AS SPECIFIED ON THE DRAWINGS, OR, AT LEAST 13mm DIAMETER IF NOT SPECIFIED ON THE DRAWINGS.
- 3. ANCHOR BOLTS: BOLTS ANCHORED IN CONCRETE, IF NOT SPECIFIED ON THE DRAWINGS, SHALL BE 13mm DIAMETER WITH 225mm EMBEDDED AND SHALL CONFORM TO ASTM A-36.
- 4. **ENCASED STEEL:** STEEL COMPLETELY ENCASED IN CONCRETE SHALL NOT BE PAINTED AND SHALL HAVE A CLEAN SURFACE FOR BONDING TO CONCRETE.

#### **ALUMINUM**

- . APPLICABLE SPECIFICATIONS AND CODES: ALUMINUM CONSTRUCTION SHALL CONFORM TO CAN3—S157 "STRENGTH DESIGN IN ALUMINUM" AS SPECIFIED IN THE NATIONAL BUILDING CODE.
- 2. ALUMINUM PLACED IN CONTACT WITH CONCRETE, MORTAR, PLASTER OR DISSIMILAR METALS SHALL BE GIVEN A PROTECTIVE SEALING COAT OF ZINC CHROMATE EPOXY OR ALKALI—RESISTANT BITUMINOUS PAINT.

#### MASONRY

- 1. APPLICABLE SPECIFICATIONS AND CODES: MASONRY CONSTRUCTION SHALL CONFORM TO CAN3-S157 AS SPECIFIED IN THE NATIONAL BUILDING CODE.
- 2. VERTICAL REINFORCING SHALL BE 1 15M BARS FOR FULL HEIGHT OF WALL IN A CAVITY AT MAXIMUM 0.60 METRE SPACING C/C AND AT ALL CORNERS, AND 1—15M ADJACENT TO OPENINGS LARGER THAN 600mm.
- 3. HORIZONTAL REINFORCING SHALL BE "DURWALL" OR "WAL-LOK" STANDARD WT BRIGHT FINISH AT 400mm SPACING AND 2-15M HORIZONTAL REINFORCING CONTINUOUS IN BOND BEAMS SPACED 1200 C/C AND IN LINTELS FOR OPENINGS OF LESS THAN 1200 WITH 400 BEARINGS ON BOTH SIDES OF OPENINGS.
- 4. FOR MORE INFORMATION SEE S3 DRAWING.

STRUCTURAL LEGEND	STRUCTURAL LEGEND										
NEW CONCR	ETE										
EXISTING CO	NCRETE										
	RCING (PLAN VIEW)										
BOTTOM REIN	NFORCING (PLAN VIEW)										

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#### CONCRETE

- 1. APPLICABLE SPECIFICATIONS AND CODES: CONCRETE CONSTRUCTION SHALL CONFORM TO CSA 23.3-04 "DESIGN OF CONCRETE STRUCTURES FOR BUILDING" AS SPECIFIED IN THE NATIONAL BUILDING CODE OF CANADA 2005.
- 2. **REINFORCING STEEL DETAILS**: ALL DETAILING, FABRICATING AND ERECTION OF STEEL REINFORCING BARS, UNLESS OTHERWISE NOTED, SHALL BE IN ACCORDANCE WITH THE "METRIC SUPPLEMENT" IN CONJUNCTION WITH THE "REINFORCING STEEL MANUAL OF STANDARD PRACTICE", AS AVAILABLE FROM THE WESTERN REINFORCING CONTRACTORS ASSOCIATION.
- 3. **MINIMUM REINFORCING:** CONCRETE CONSTRUCTION SHALL BE REINFORCED CONCRETE EXCEPT WHERE PLAIN CONCRETE (P/C) IS SPECIFIED ON THE DRAWINGS, IN WHICH CASE NO REINFORCEMENT SHALL BE USED. CONCRETE THAT IS NOT DESIGNATED P/C AND HAS NO REINFORCEMENT INDICATED SHALL BE REINFORCED ACCORDING TO THE FOLLOWING SCHEDULES:

A) STEEL FOR WALLS AND SLABS
REINFORCEMENT EACH WAY

THICKNESS	SIZE	SPACING	POSITION
150	10M	300 C/C	ON ¢
200	15M	300 C/C	ON Œ
250	15M	300 C/C	EF _
300	15M	300 C/C	EF
350	15M	250 C/C	EF
400	20M	300 C/C	EF
450	20M	250 C/C	EF

MASS CONCRETE SHALL BE REINFORCED WITH 15M BARS AT 300 MINIMUM IN ALL FACES.

- B) 10M @ 450 SHALL BE USED AS TRANSVERSE TIES IF NO OTHER REINFORCING IS NOTED.
- 4. CONCRETE COVER: CONCRETE COVER OF REINFORCING BARS, IF NOT SPECIFIED ON THE DRAWINGS, SHALL BE AS FOLLOWS OR SHALL BE EQUAL TO THE DIAMETER OF THE MAIN REINFORCING BAR IT COVERS, WHICHEVER IS LARGER:

	CONDITION	SPECIFIED CO	VER (mm)
A) B)	CONCRETE CAST AGAINST GROUND CONCRETE EXPOSED TO EARTH, LIQUIDS OR WEATHER	75	
	i) 20M BARS OR LARGER ii) 10M AND 15M BARS	50 40	
C)	CONCRETE SLABS OR WALLS NOT EXPOSED TO EARTH, LIQUIDS OR WEATHER	20	
D)	CONCRETE BEAMS OR COLUMNS	50	

- REINFORCING BAR DEVELOPMENT AND LAP LENGTHS REINFORCING BAR DEVELOPMENT LENGTH AND LAP SPLICE LENGTHS SHALL BE AS SPECIFIED ON THE DRAWINGS OR IN ACCORDANCE WITH THE FOLLOWING SCHEDULES. WHICHEVER IS THE LONGER LENGTH:
  - i) DOWELS SHALL BE THE SAME SIZE AND SPACING AS BARS WITH WHICH THEY ARE LAPPED, UNLESS OTHERWISE NOTED.
  - ii) THE LENGTH OF LAP SPLICE OF BARS OF DIFFERENT DIAMETERS SHALL BE BASED ON THE BAR WITH THE SMALLER DIAMETER.
- S. STANDARD HOOK: BARS ENDING IN RIGHT ANGLE BENDS OR HOOKS SHALL CONFORM TO THE REQUIREMENTS OF CSA CAN3-A23.1
- 7. ANCHORAGE: IF THE EMBEDMENT LENGTH IS LIMITED DUE TO THE LIMITED EXTENT OF THE CONCRETE STRUCTURE, THE BARS SHALL EXTEND AS FAR AS POSSIBLE AND END IN STANDARD HOOKS.

### WOOD

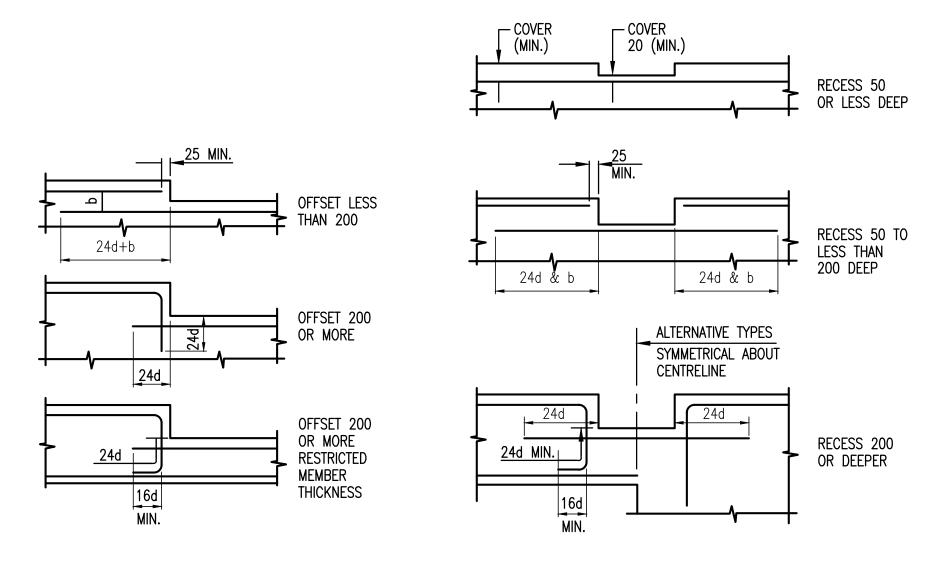
- 1. ALL LUMBER AND WOOD PRODUCTS SHALL CONFORM TO B.C.B.C. 2006 PART 9 SECTION 9.3.2 "GRADES", 9.4.1 "GENERAL DESIGN", 9.4.2 "SNOWLOADS" AND 9.4.3 "DEFLECTIONS".
- 2. BUILDINGS AND THEIR STRUCTURAL MEMBERS MADE OF WOOD SHALL CONFORM TO CAN3-086 "ENGINEERING DESIGN IN WOOD, (WORKING STRESS DESIGN)", OR CAN/CSA 086.1 "ENGINEERING DESIGN IN WOOD, (LIMIT STATE DESIGN)".
- 3. WOOD FRAME CONSTRUCTION SHALL CONFORM TO B.C.B.C. 2006 PART 9 SECTION 9.23
- 4. WOOD TRUSSES SHALL BE DESIGNED, BUILT AND INSTALLED IN CONFORMANCE WITH B.C.B.C. 2006 PART 9 SECTION 9.23.13.11 "ROOF TRUSSES".

NOTE

WHERE DETAIL(S) SHOWN ON THE DRAWINGS
DIFFER FROM THE DETAILS SHOWN ON THIS
SHEET (S1), THEN THE DRAWING HAS PRIORITY.

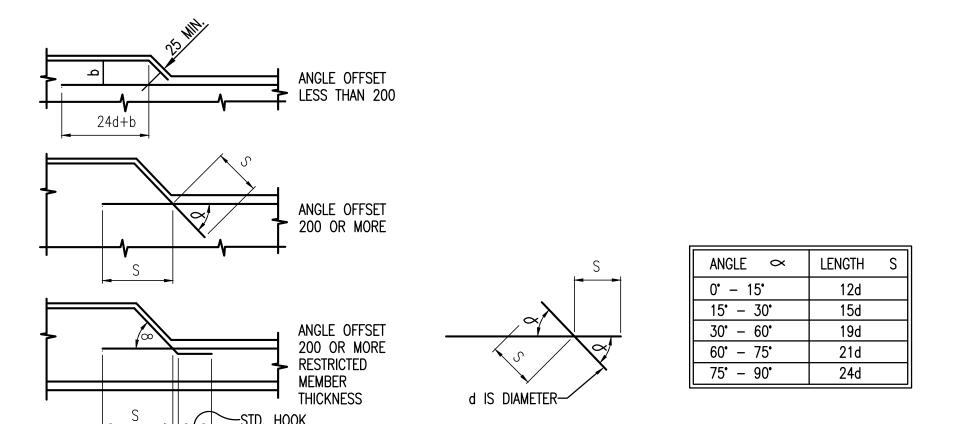
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TYPICAL RECESS DETAILS



#### TYPICAL ANGLE OFFSET DETAILS

DATE

A JAN27/12 AIS

B APR25/12 AIS MR

DRAWN | CHK'D | APP'D

MR

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DESCRIPTION

ISSUED FOR TENDER

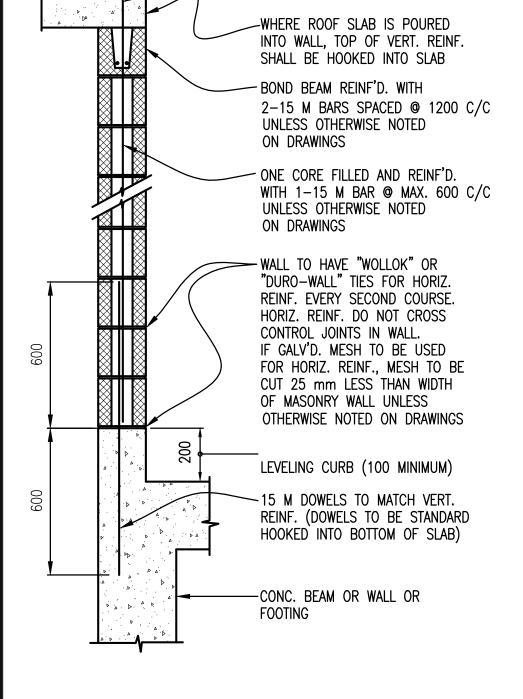
ISSUED FOR CONSTRUCTION

RECORD DRAWING

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OTHERWISE ADJUST SCALES ACCORDINGLY

1:1
ISI D 0 10 20 30 40 50 60 70 80 90 100 mm



~ 90° STD. HOOK

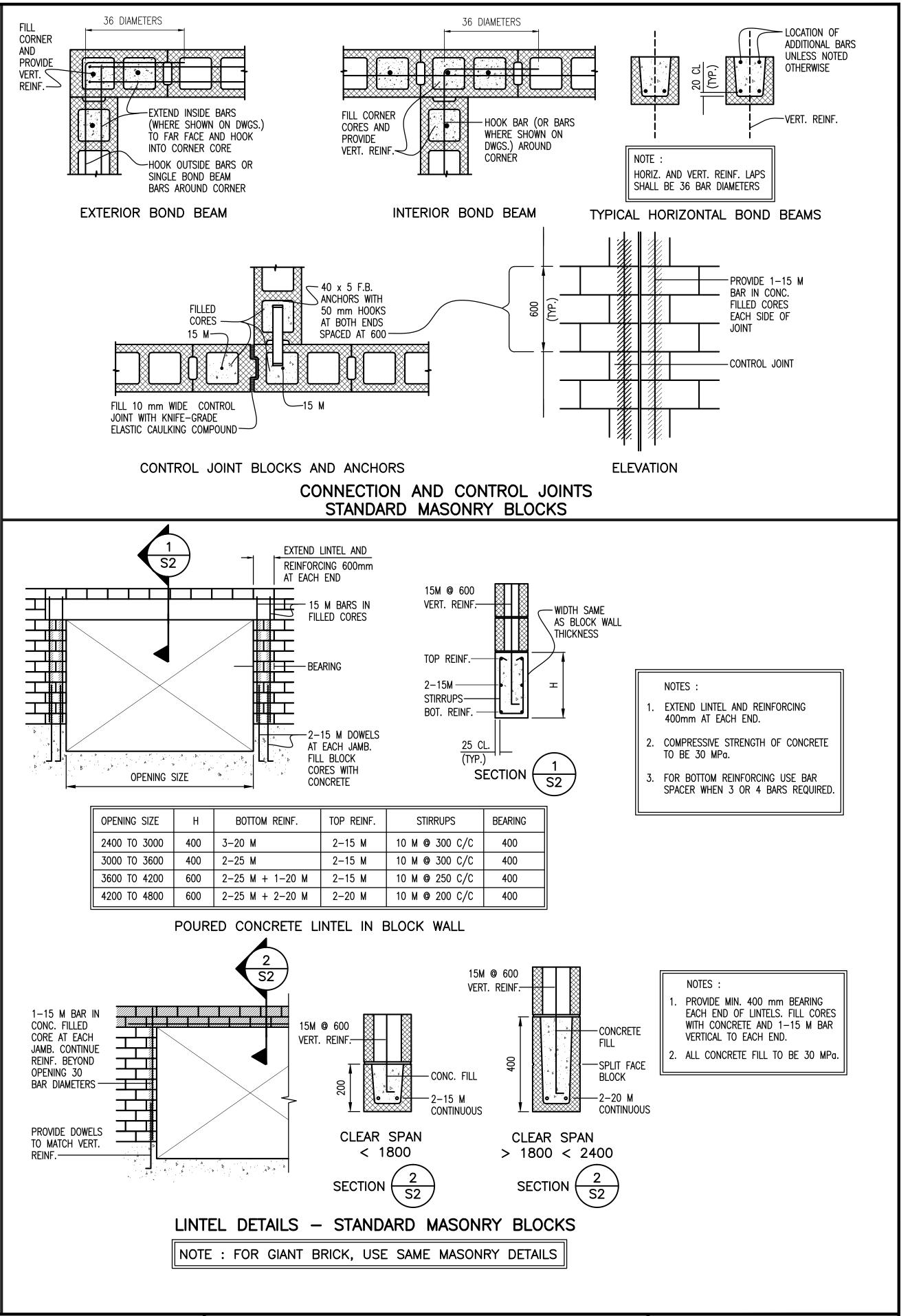
## TYPICAL MASONRY WALL ANCHORING TO CONCRETE AT BASE STANDARD MASONRY BLOCKS

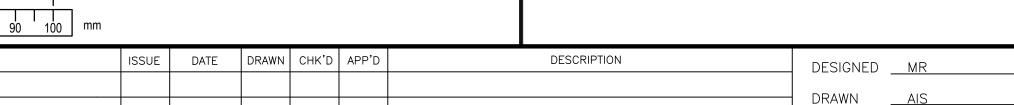
#### NOTES

- LINTEL IS REQUIRED FOR TOP OF OPENING. SEE LINTEL DETAILS.
   PROVIDE VERTICAL REINFORCING FOR BOTH SIDES OF OPENING IN WALL AND EACH CORNER OF WALLS.
- 3. PROVIDE BOND BEAM ABOVE AND BELOW OPENINGS IN WALL AND EXTEND BOND BEAM 800 mm BEYOND EDGES.

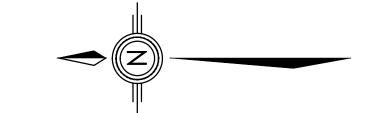
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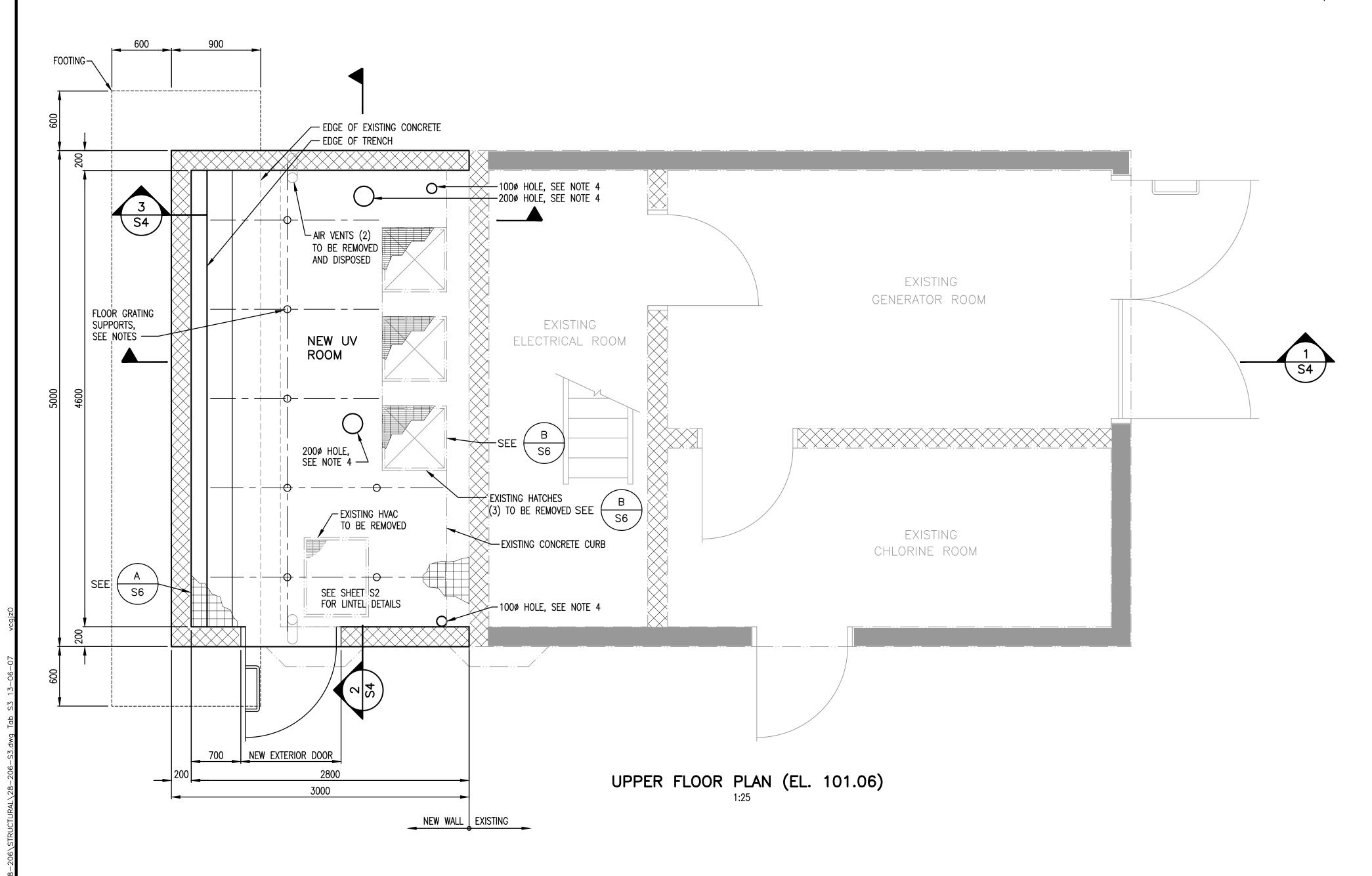
- 4. FILL FOR BLOCKS AND BOND BEAMS TO BE 30 MPa CONCRETE.
- 5. TYPE S MORTAR TO BE USED FOR ALL JOINTS.

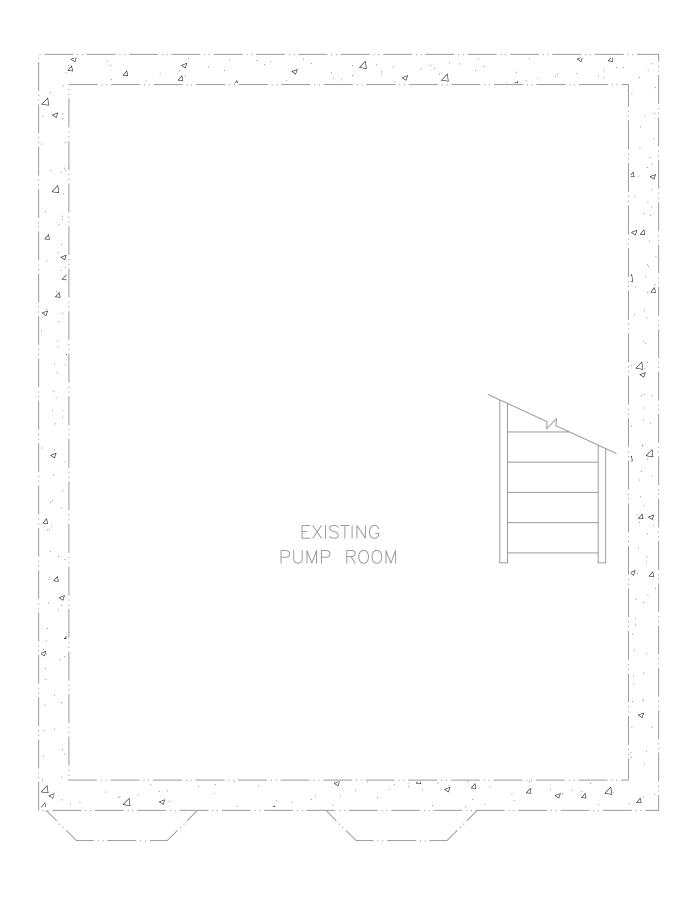












LOWER FLOOR PLAN (EL. 98.11)

#### NOTES :

GROUND ELEVATION ASSUMED FROM AS-BUILT DRAWINGS.

- MAXIMUM SPAN OF FLOOR GRATING BETWEEN SUPPORTS NOT TO EXCEED 900mm.
- 3. FLOOR GRATING TO BE ALUMINUM OR FRP.
- 4. CONTRACTOR TO CORE HOLES THROUGH SLAB.
  APPROXIMATE LOCATION TO BE FINALIZED IN THE FIELD.

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1:1

ANSI D

OTHERWISE ADJUST SCALES ACCORDINGLY

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	\	С	MAY08/13	RB			RECORD DRAWING						CHECKED _	<u>MR</u>

MR	OPUS DA	AYTONKNIGHT
DC/KS/AIS/RB	North Vancous Offic	210-889 Harbourside Drive
MR	North Vancouver Office 604-990-4800	e North Vancouver BC V7P 3S1, Canada

SUNSHINE COAST REGIONAL DISTRICT

GARDEN BAY UV BUILDING

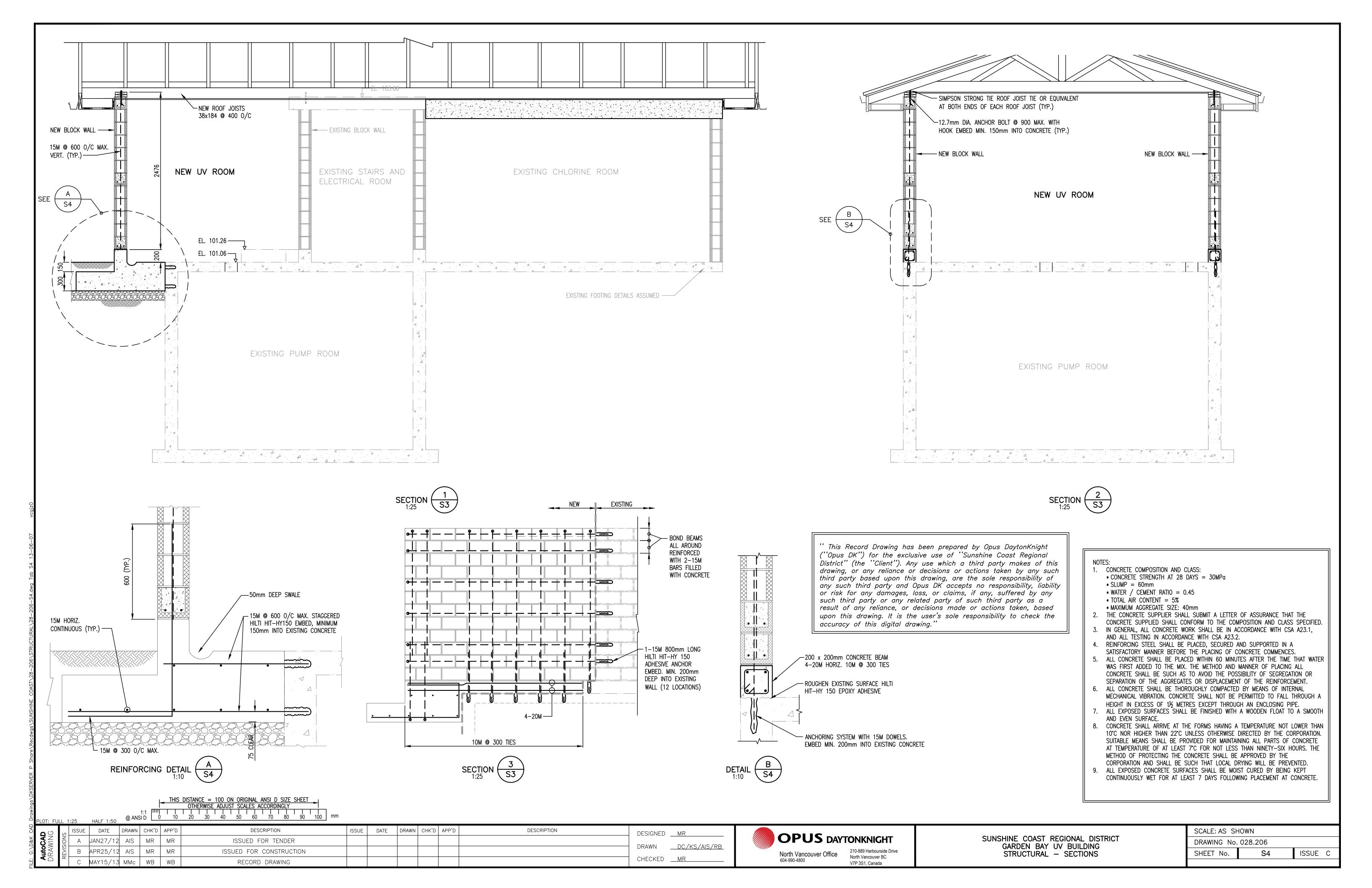
STRUCTURAL — PLANS

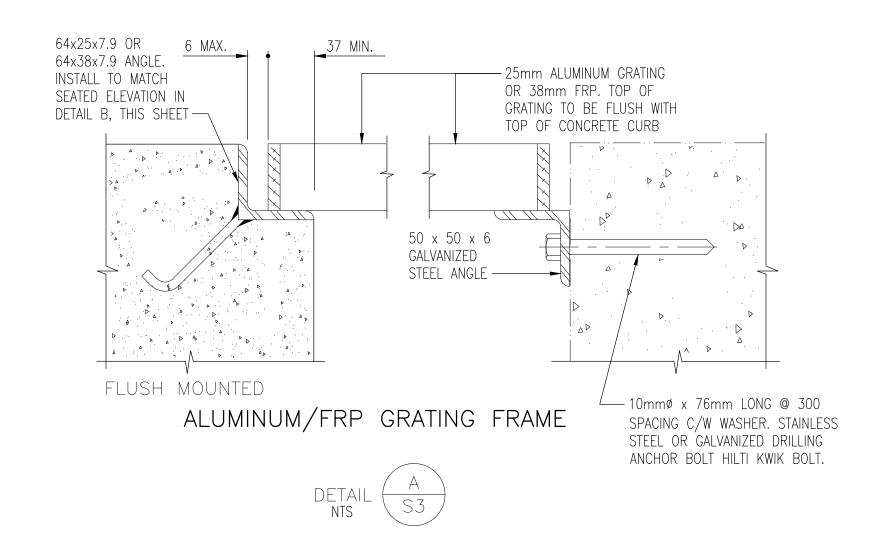
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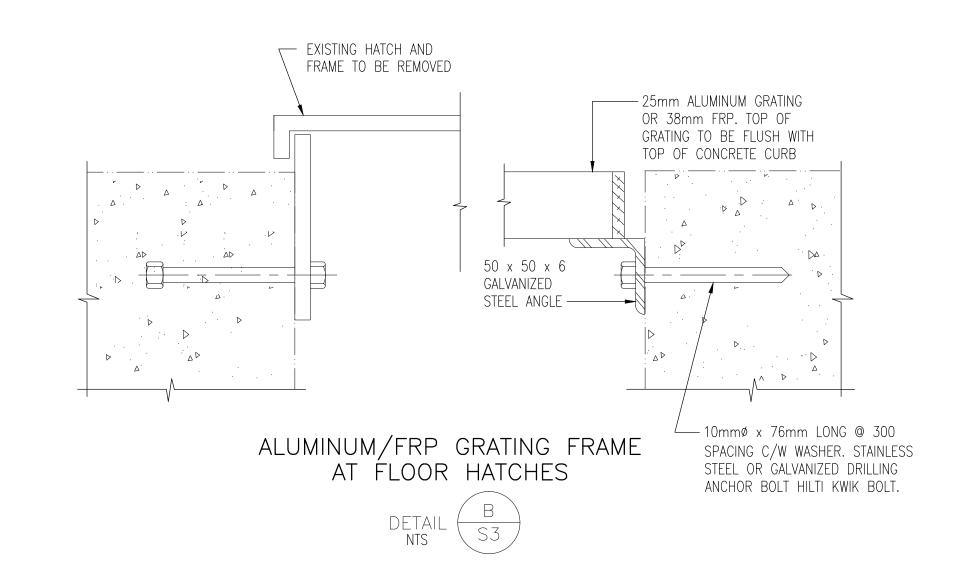
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SHEET No.

SCALE: AS SH	NWOH		
DRAWING No.	028.206		
SHEET No.	S3	ISSUE	С







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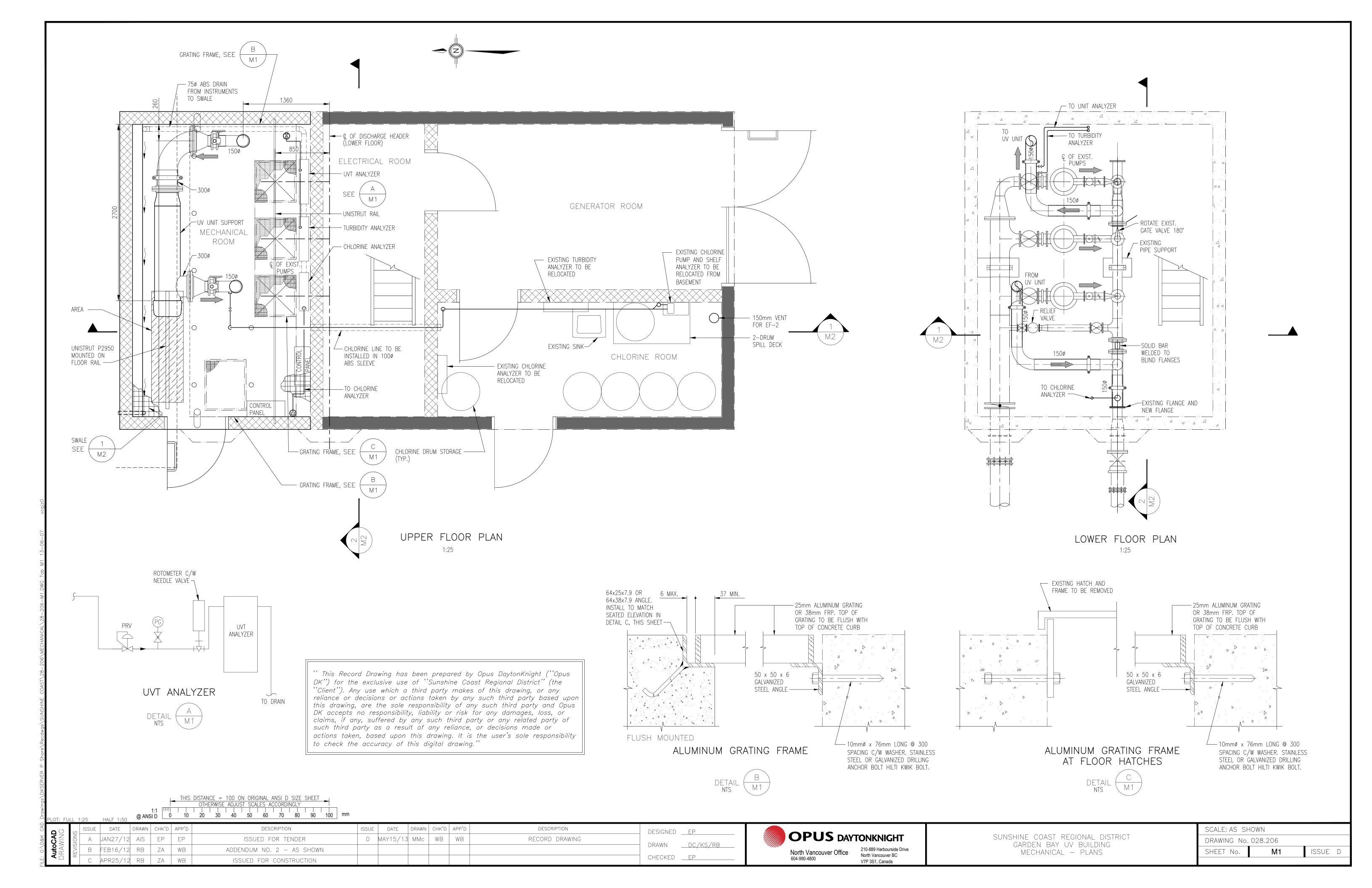
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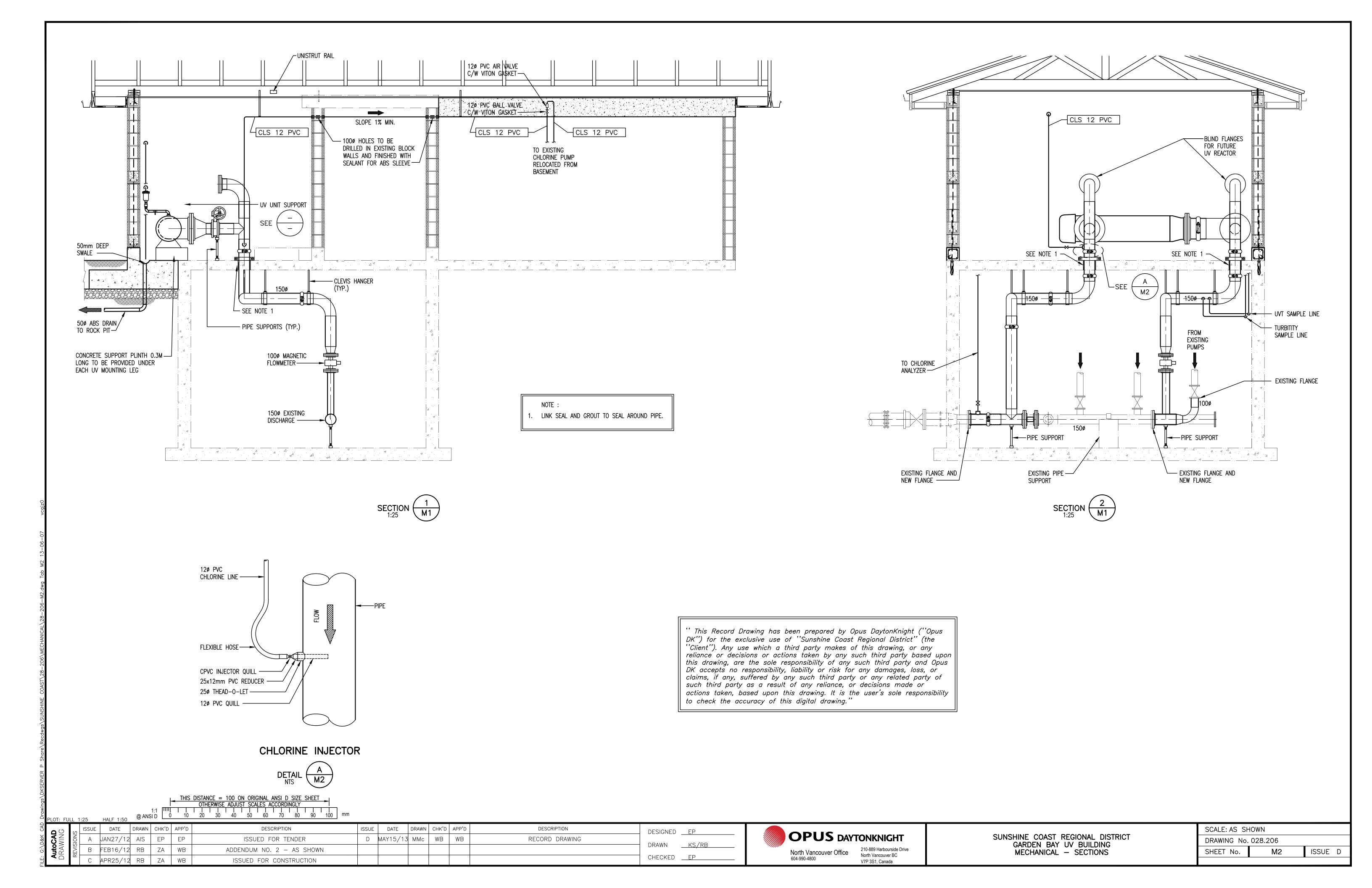


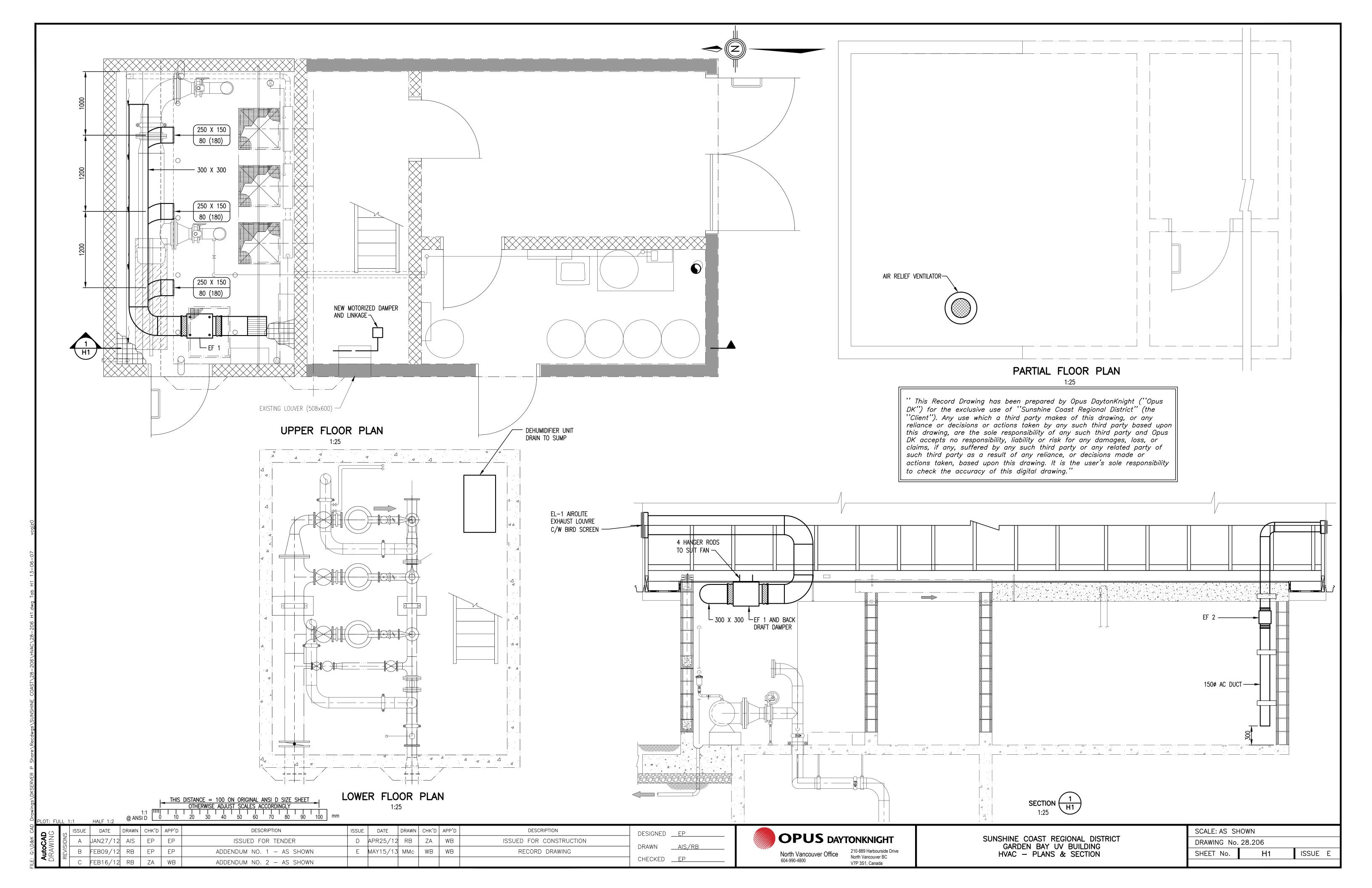
SUNSHINE COAST REGIONAL DISTRICT GARDEN BAY UV BUILDING STRUCTURAL — SECTIONS SCALE: AS SHOWN

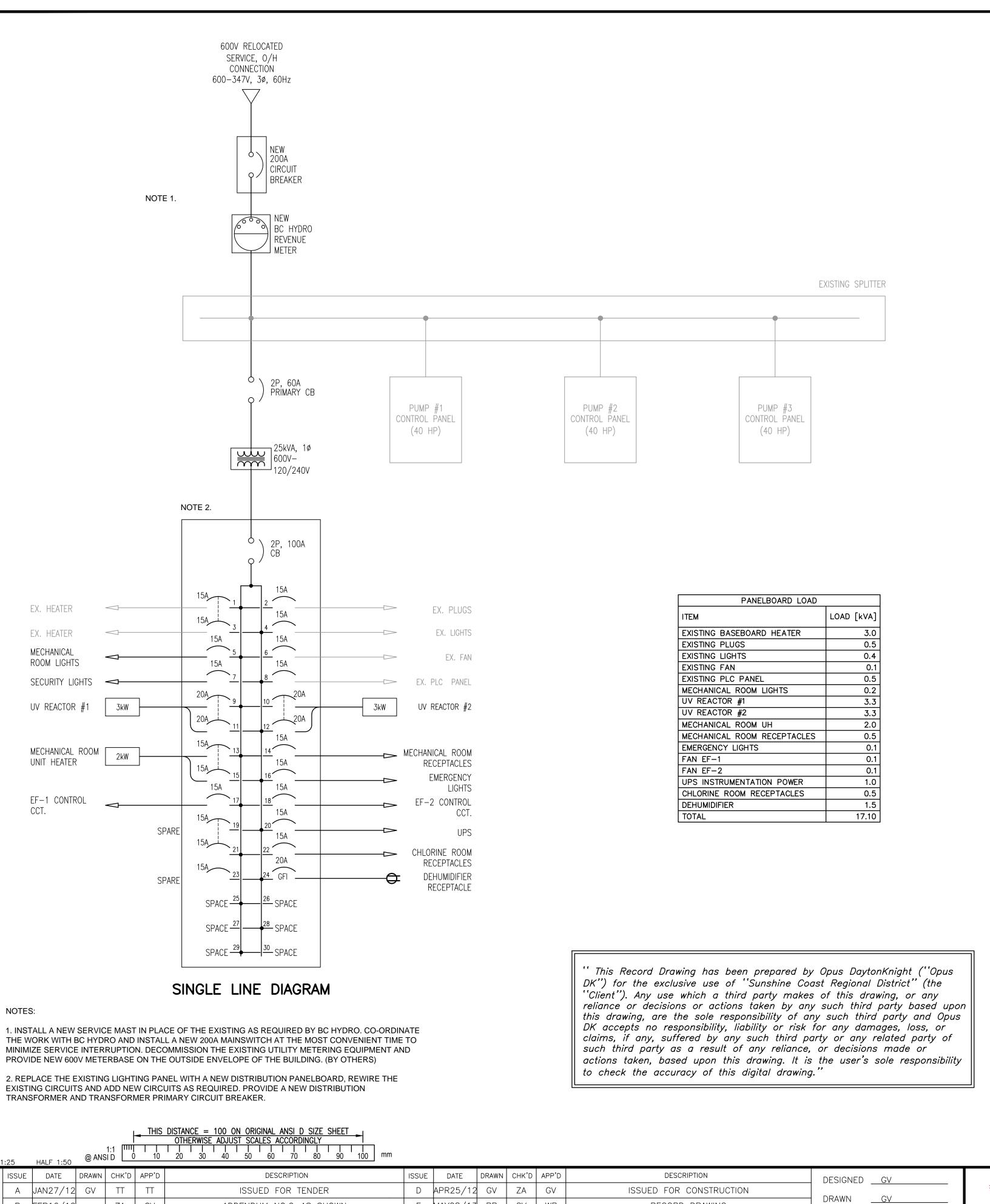
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SHEET No. S5 ISSUE C









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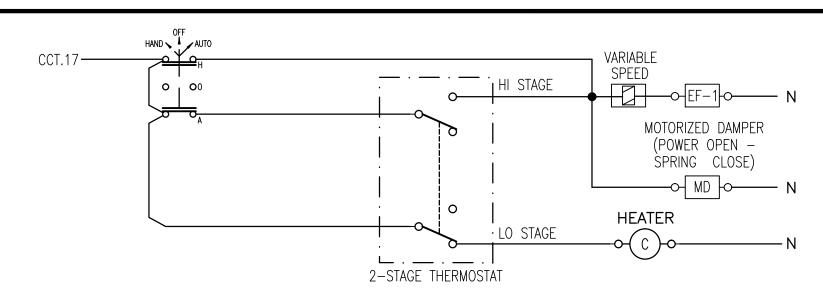
RECORD DRAWING

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ADDENDUM NO.2-AS SHOWN

MODIFIED - AS SHOWN

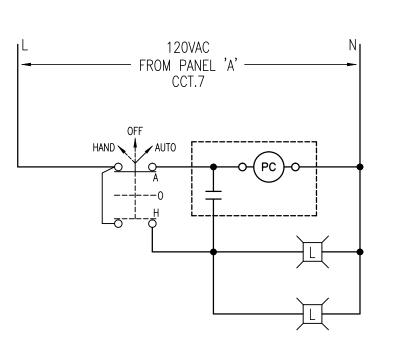
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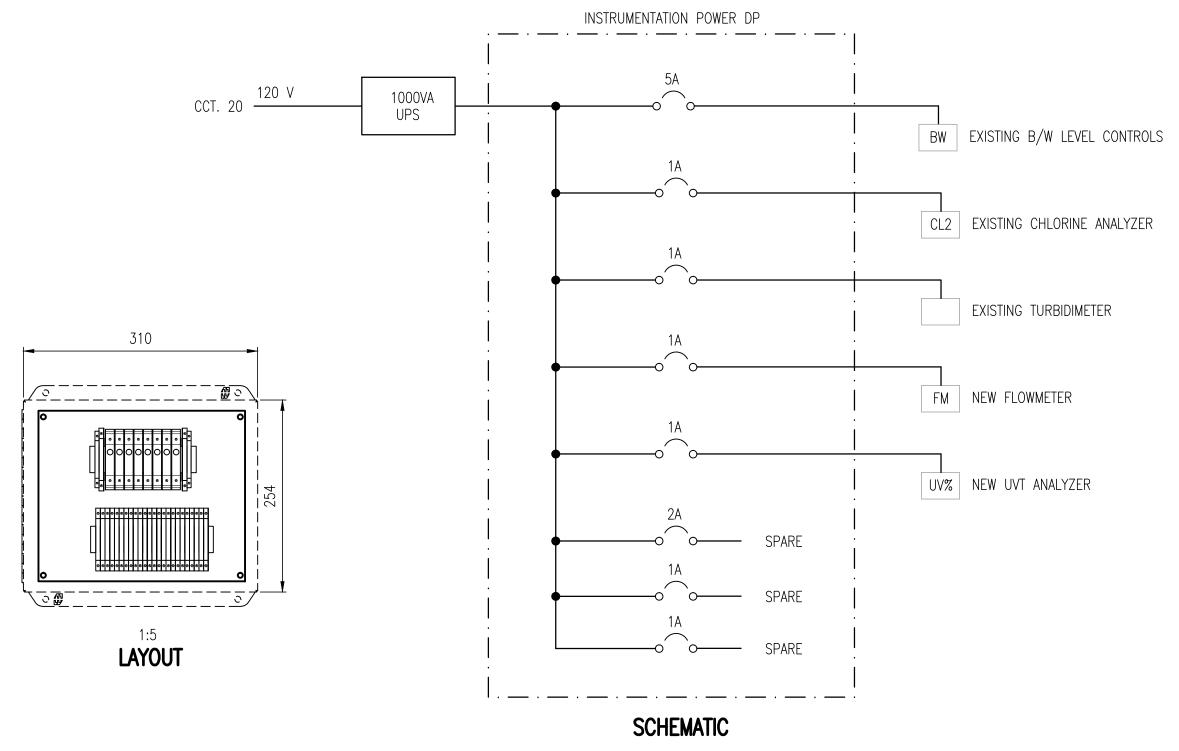
# PUMP ROOM & ELECTRICAL ROOM FAN/HEATER CONTROL



EF-2 FAN CONTROL



OUTSIDE LIGHTS CONTROL

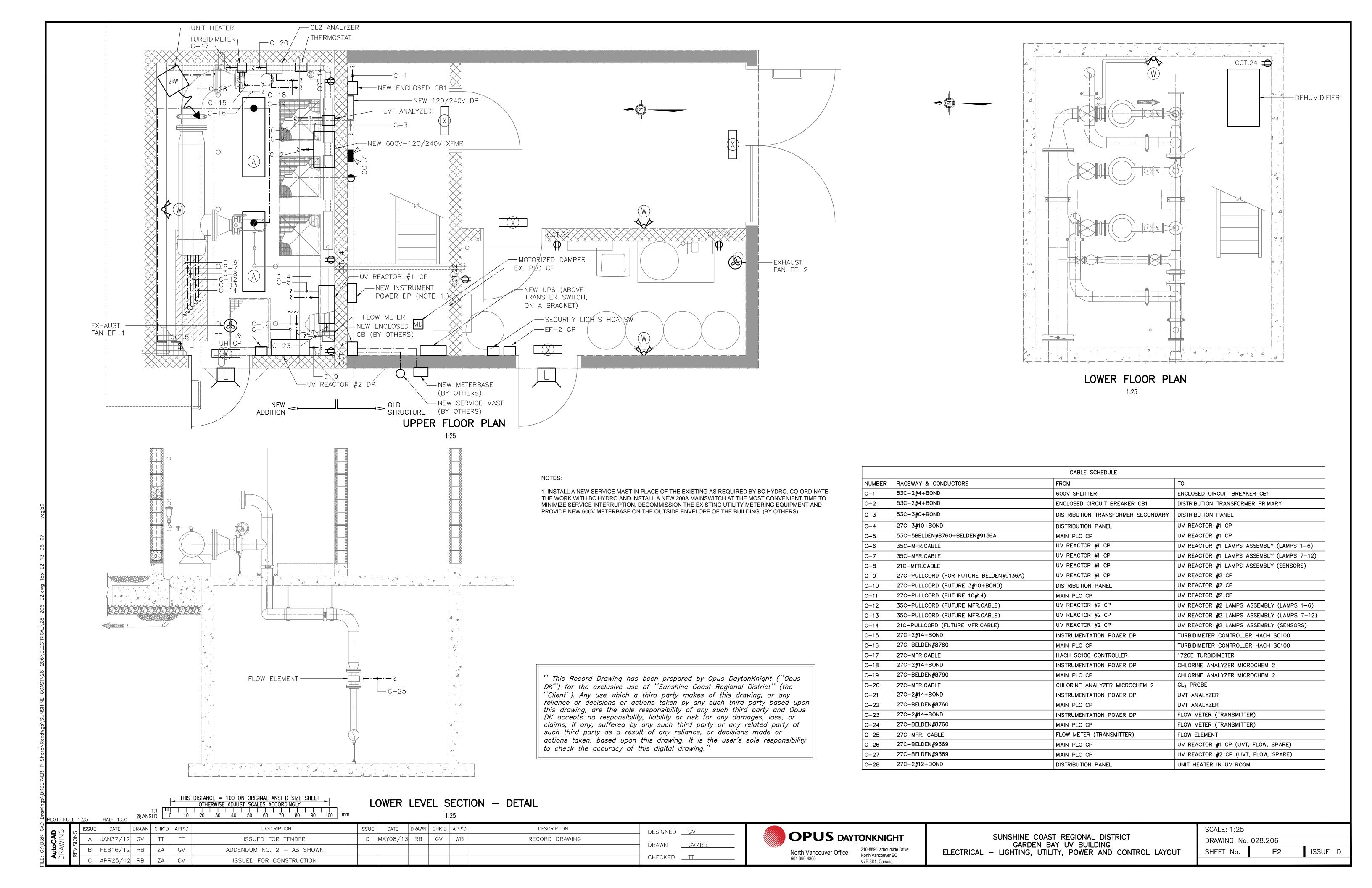


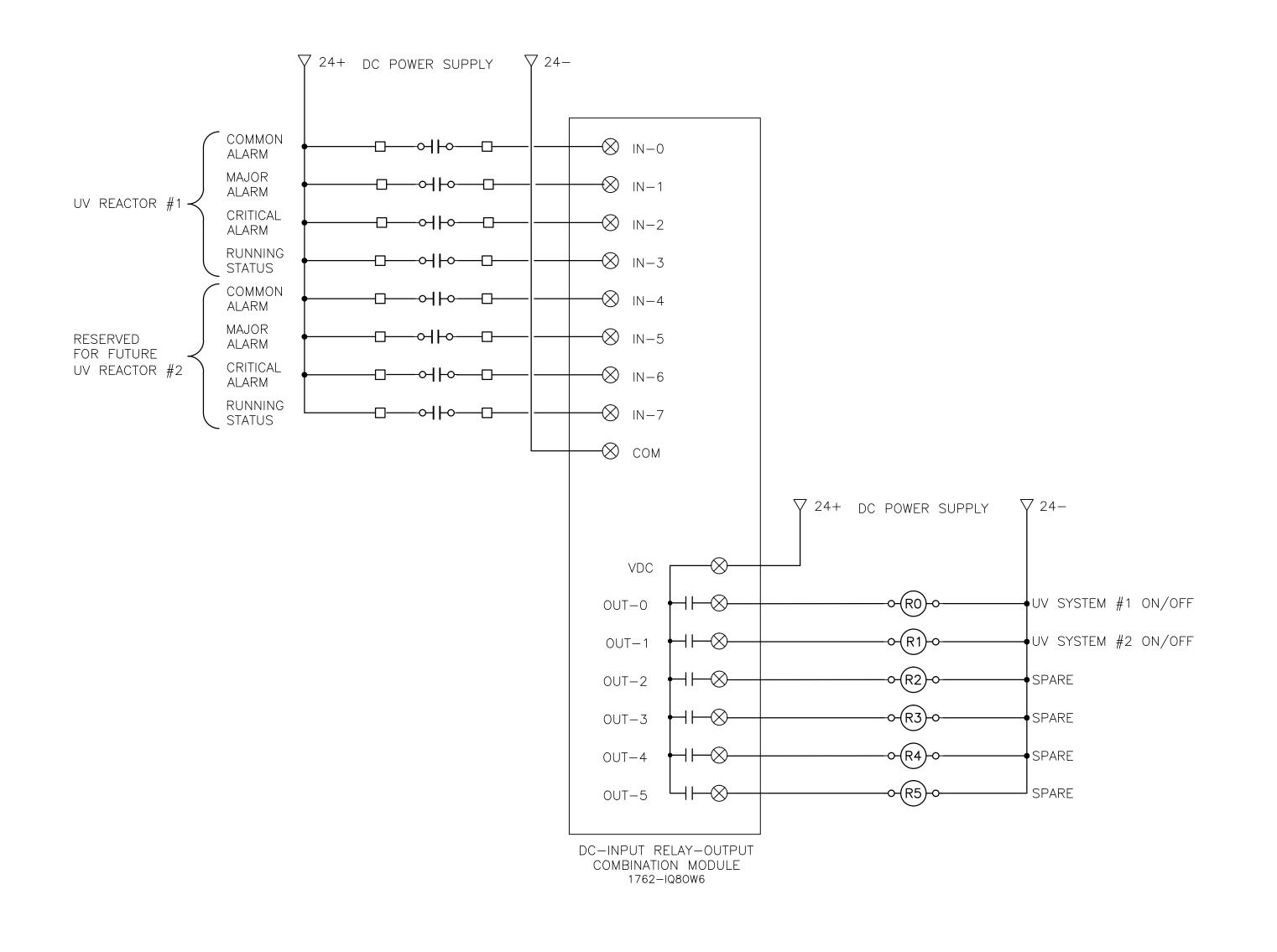
INSTRUMENTATION POWER DP

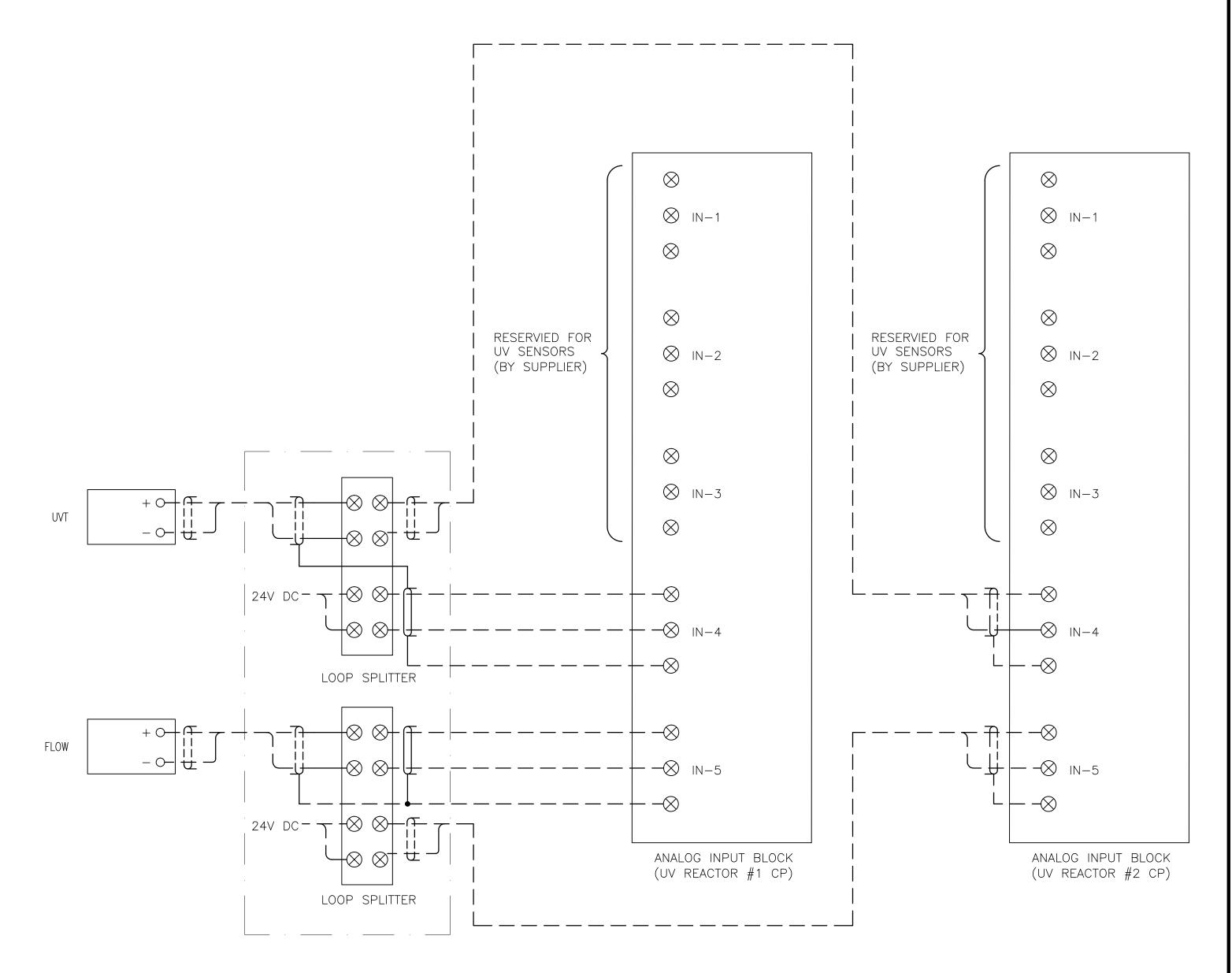


SUNSHINE COAST REGIONAL DISTRICT
GARDEN BAY UV BUILDING
ELECTRICAL — SINGLE LINE DIAGRAM & MISCELLANIOUS DETAILS

SCALE: AS SH	NWOH		
DRAWING No.	028.206		
SHEET No.	E1	ISSUE	E







# EXISTING PLC PANEL NEW I/O

NOTES:
1. CONTRACTOR TO PROVIDE, IF REQUIRED, EXTERNAL POWER FOR THE UV REMOTE ON/OFF SIGNALS TO SUIT THE UV SYSTEM THAT IS SELECTED.

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# EXISTING PLC CP

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SUNSHINE COAST REGIONAL DISTRICT

GARDEN BAY UV BUILDING

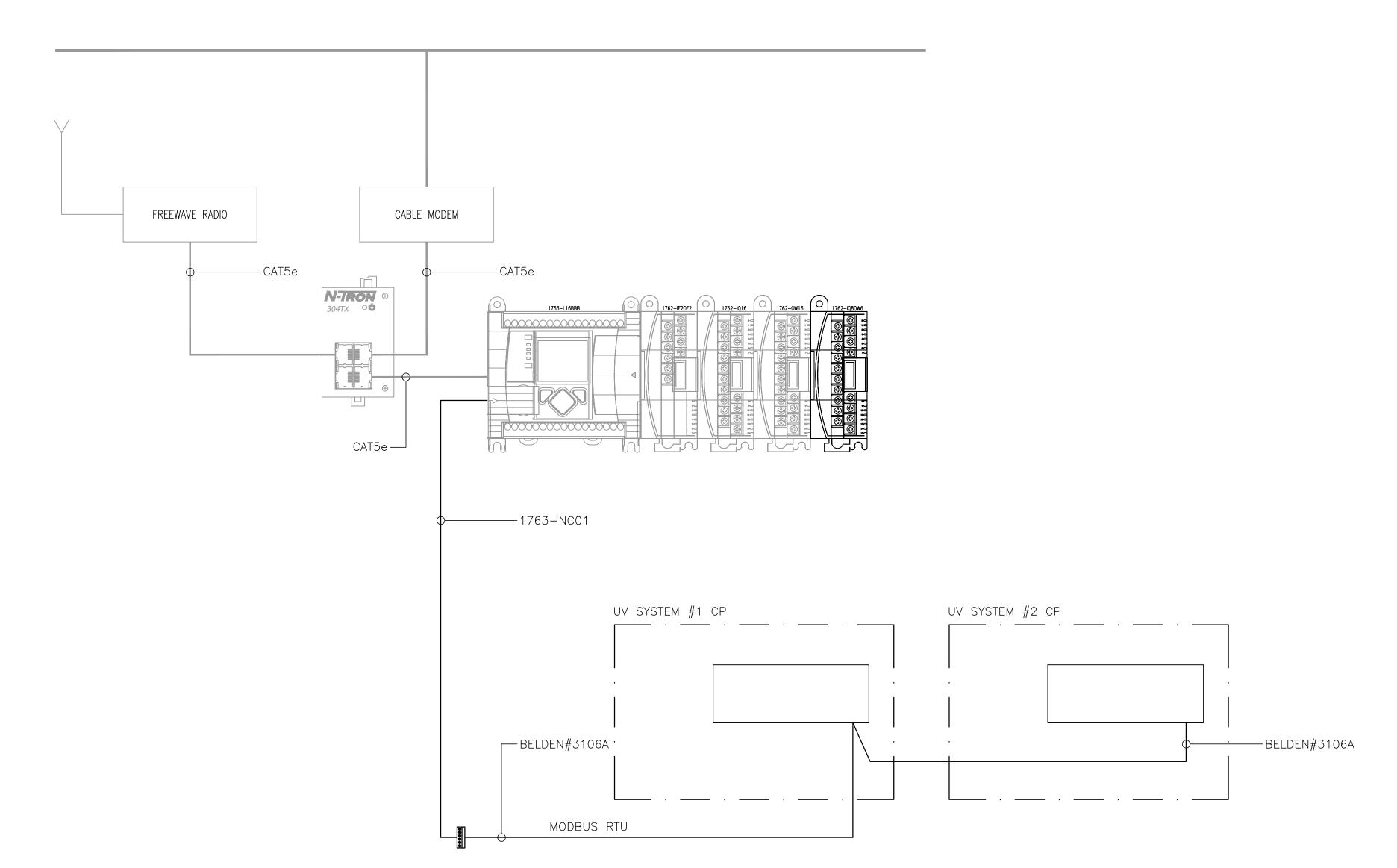
ELECTRICAL — NEW I/O

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DRAWING No. 028.206								
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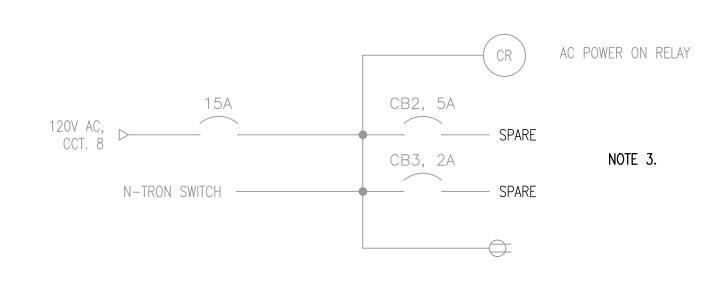


# PLC LAYOUT AND COMMUNICATION BLOCK DIAGRAM

N-TRON SWITCH — DIGITAL INPUTS/OUTPUTS 0.5A

NEW INPUTS/OUTPUTS 0.25A LOOP SPLITTERS POWER

# DC CONTROL POWER MODIFICATIONS



PLC CP AC POWER MODIFICATIONS

1. PROVIDE NEW EQUIPMENT AND WIRING INSIDE THE MAIN PLC PANEL, AND WIRE WITH OUTSIDE EQUPMENT.

2. PROVIDE NEW CIRCUIT BREAKERS AND WIRING.

3. POWER THE INSTRUMENTATION FROM THE NEW INSTRUMENTATION POWER DP, LEAVE THE EXISTING CIRCUIT BREAKERS INSIDE

THE MAIN PLC CP AS SPARE.

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