

WHATLEY MANOR HOTEL, MALMESBURY, WILTSHIRE
SN16 0RB:-

WORKS FOR REPLACEMENT OF AIR HANDLING UNITS

1957.21-AHU-SCHEME-01

FOR PLANNING APPROVAL AND LISTED BUILDING CONSENT

09/04/26 - REVISION A - ISSUED FOR COMMENT

30/04/26 - REVISION B - ISSUED FOR LISTED BUILDING CONSENT AND PLANNING APPROVAL

JOB NO: 1957.21 DATE: MARCH 2026 CLIENT: WHATLEY MANOR HOTEL AND SPA

m a r k l o v e l l d e s i g n e n g i n e e r s

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BACKGROUND

THE EXISTING AIR HANDLING UNITS SERVE THE POOL HALL, CHANGING ROOM, SPA LOUNGE/BAR AND TEPIDARIUM. THE AHUs HAVE BEEN INSTALLED DURING 2002 REFURBISHMENT OF THE HOTEL WHEN THE POOL AND SPA AREAS WERE ADDED. THEY HAVE SERVED THE PROPOSED AREAS WELL FOR 24 YEARS, BUT HAVE NOW REACHED THE END OF THEIR SERVICEABLE LIFE AND NEED TO BE REPLACED.

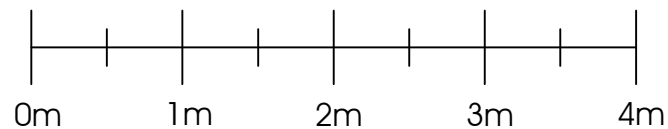
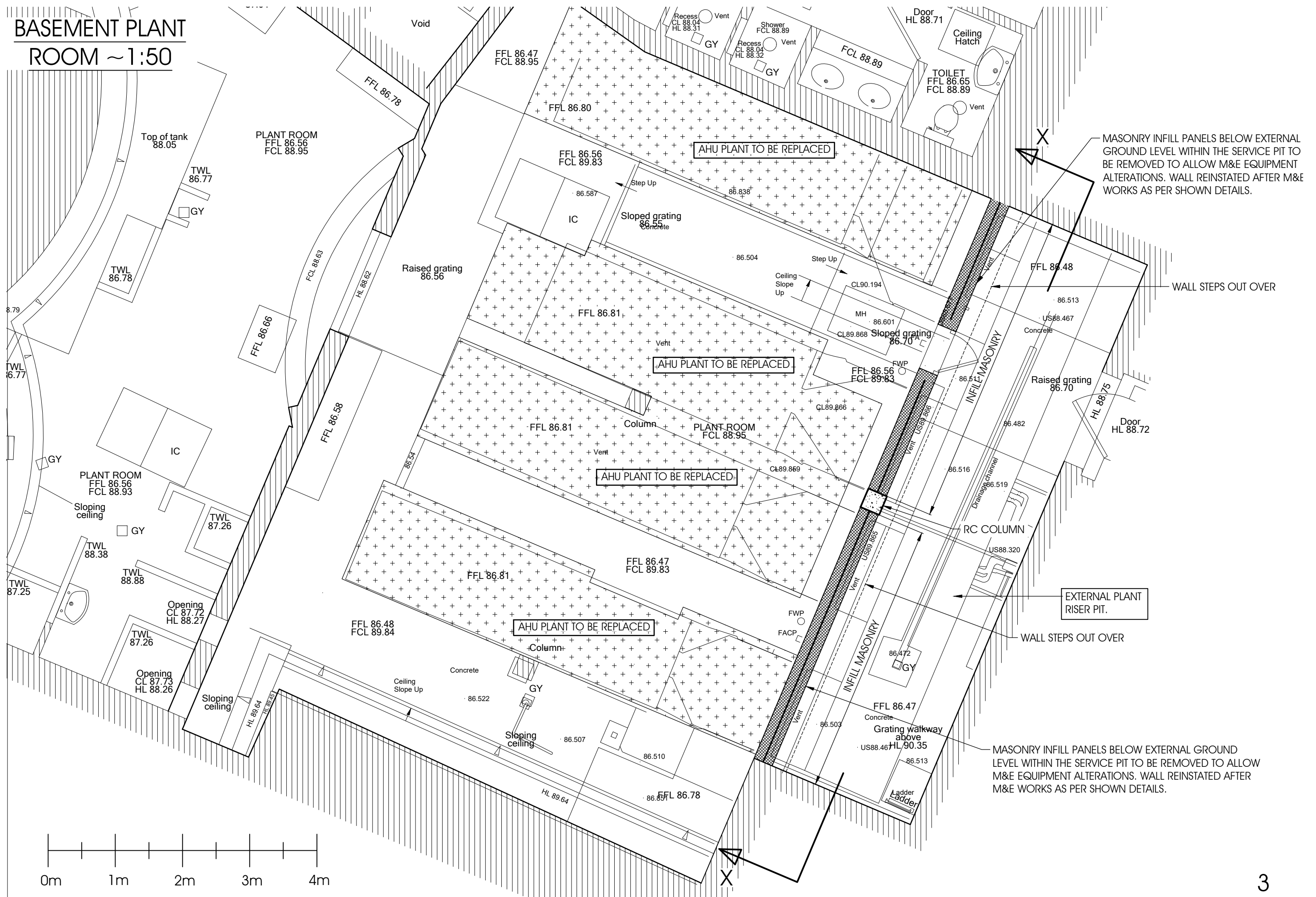
IT IS PROPOSED THAT FOUR OF EXISTING AHUs AND EXISTING VENTILATOR ARE REMOVED AND REPLACED WITH FOUR NEW AHU BY IV PRODUKT AND A NEW VENTILATOR AND CENTRIFUGAL DUCT FAN IN SOUND INSULATED CASING BY BLAUBERG.

IN ORDER TO ENABLE THE WORKS, IT IS PROPOSED TO OPEN UP THE BASEMENT PLANTROOM WALL WITHIN THE EXTERNAL SERVICE RISER PIT, TO ALLOW THE LARGE PLANT ELEMENTS TO BE REMOVED AND REPLACED AS REQUIRED, AND TO PROVIDE IMPROVED ACCESS FOR MECHANICAL AND ELECTRICAL CONTRACTORS TO FACILITATE THE ALTERATIONS.

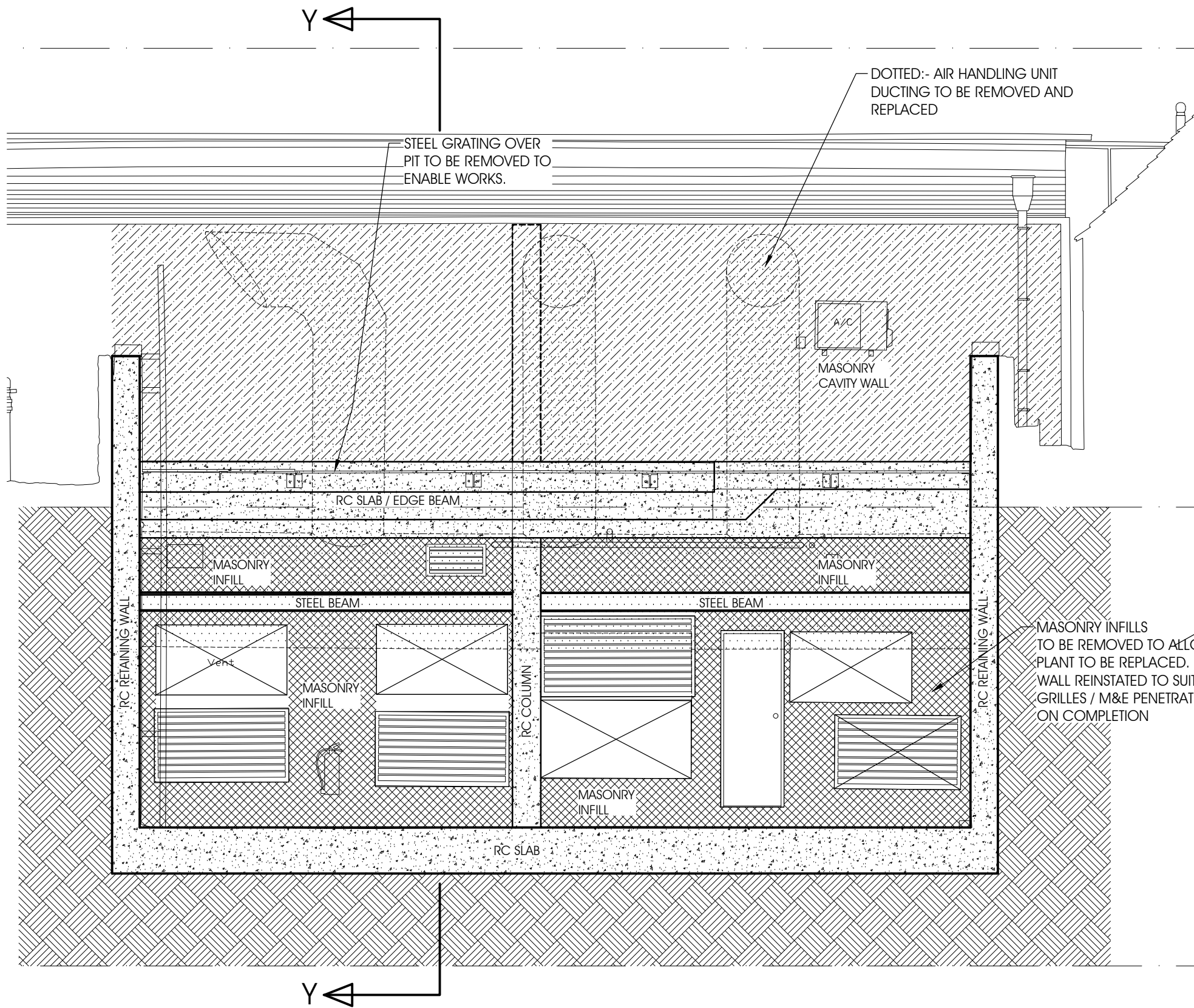
WHEN THE NEW PLANT IS INSTALLED, A NEW INFILL WALL WILL BE CONSTRUCTED WITH NEW VENT OPENINGS ETC. TO SUIT THE RECONFIGURED PLANT ARRANGEMENT.

THIS DOCUMENT ILLUSTRATES A SKETCH SCHEME.

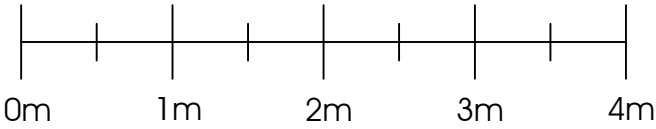
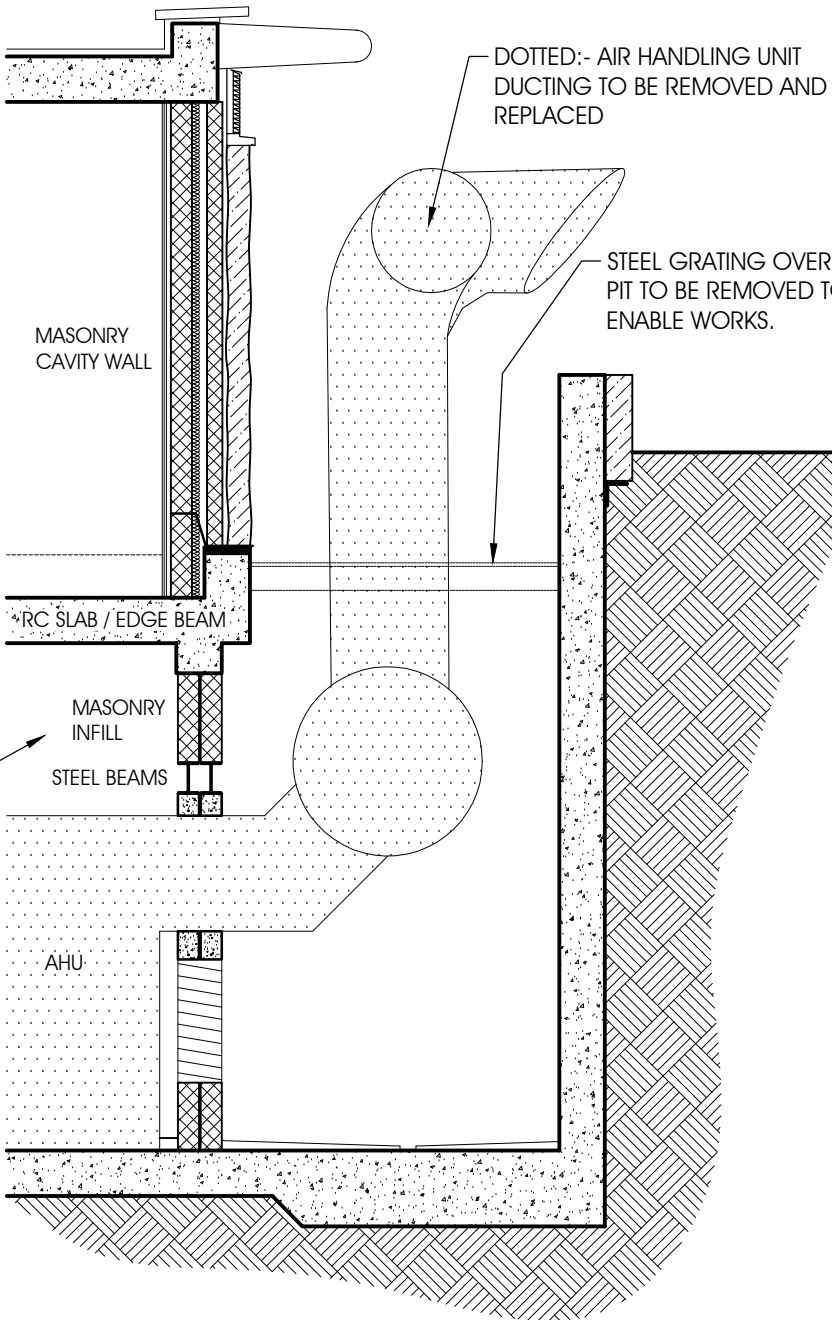
BASEMENT PLANT ROOM ~1:50



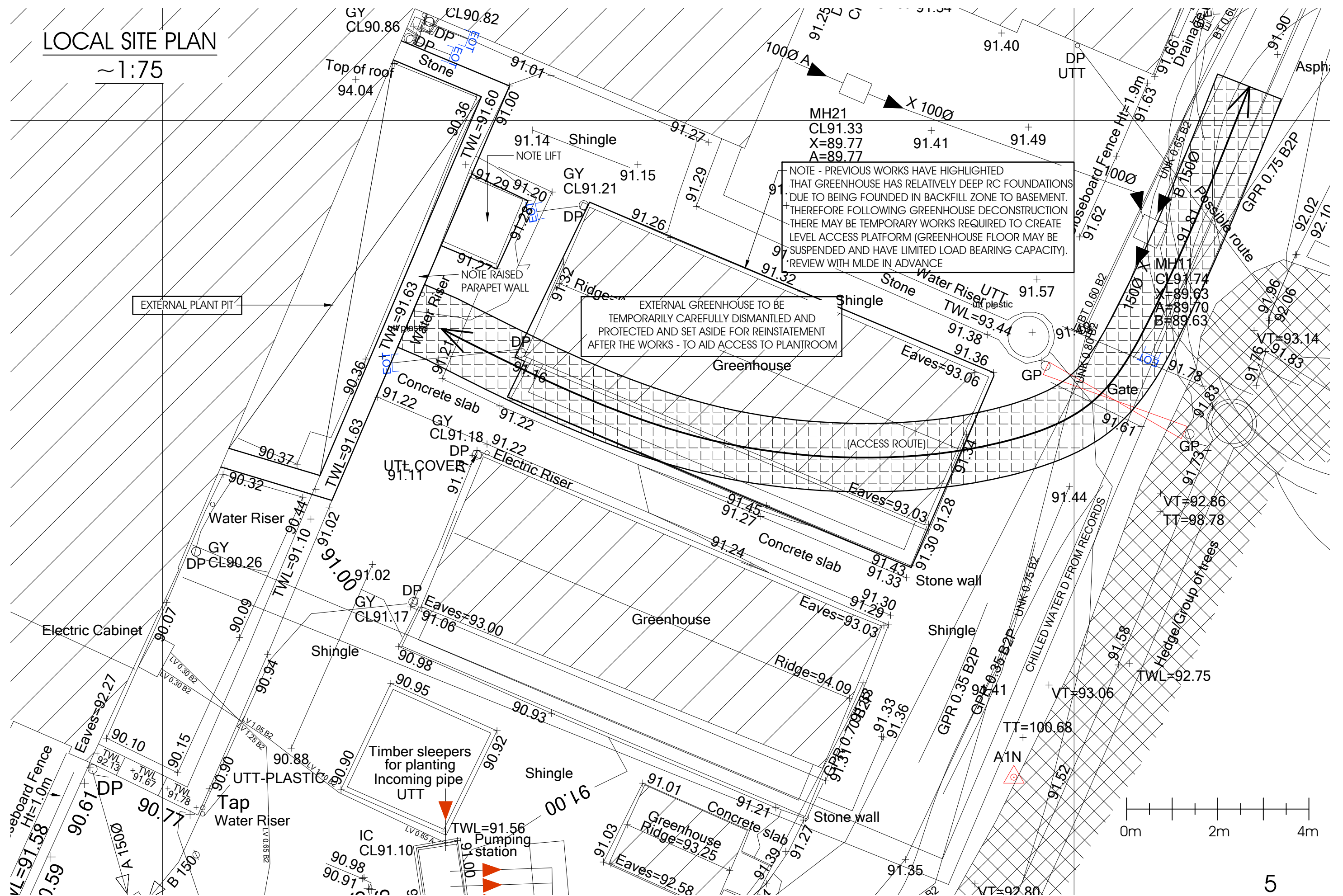
X-X EXISTING 1:50



Y-Y EXISTING 1:50



~1:75



INITIAL WORKS

Top of tank 88.05

PLANT ROOM FFL 86.56 FCL 88.95

FFL 86.78

FFL 86.47 FCL 88.95

FFL 86.80

FFL 86.56 FCL 89.83

IC

Sloped grating

86.504

Step Up

Ceiling Slope Up

CL90.194

MH 86.601

CL89.868

Sloped grating 86.70

FFL 86.56 FCL 89.83

CL89.866

FWP

FFL 86.48 FCL 89.84

CL89.869

PLANT ROOM FFL 86.56 FCL 88.93

IC

Sloping ceiling

GY

FFL 86.66

FFL 86.58

FFL 86.81

Column

Plant Room FFL 88.95

CL89.866

CL89.869

FWP

FACP

FFL 86.47 FCL 89.83

Column

Concrete

86.522

GY

Sloping ceiling

86.507

86.510

FFL 86.78

HL 89.64

86.551

FFL 86.47 FCL 89.83

Concrete

Grating walkway above HL 90.35

US88.467

86.513

Ladder

86.472

GY

86.503

86.516

86.519

US88.320

Drainage channel

86.482

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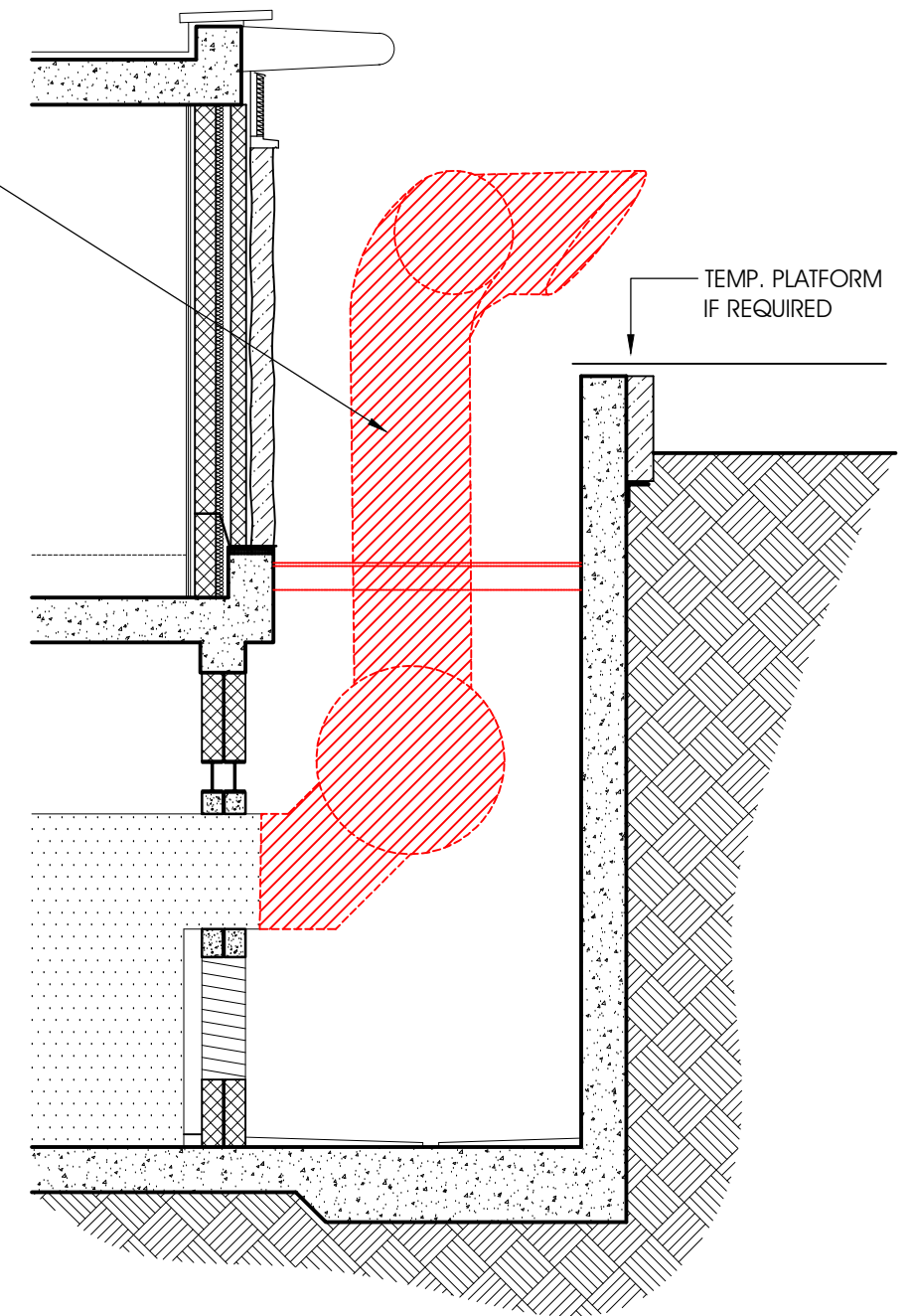
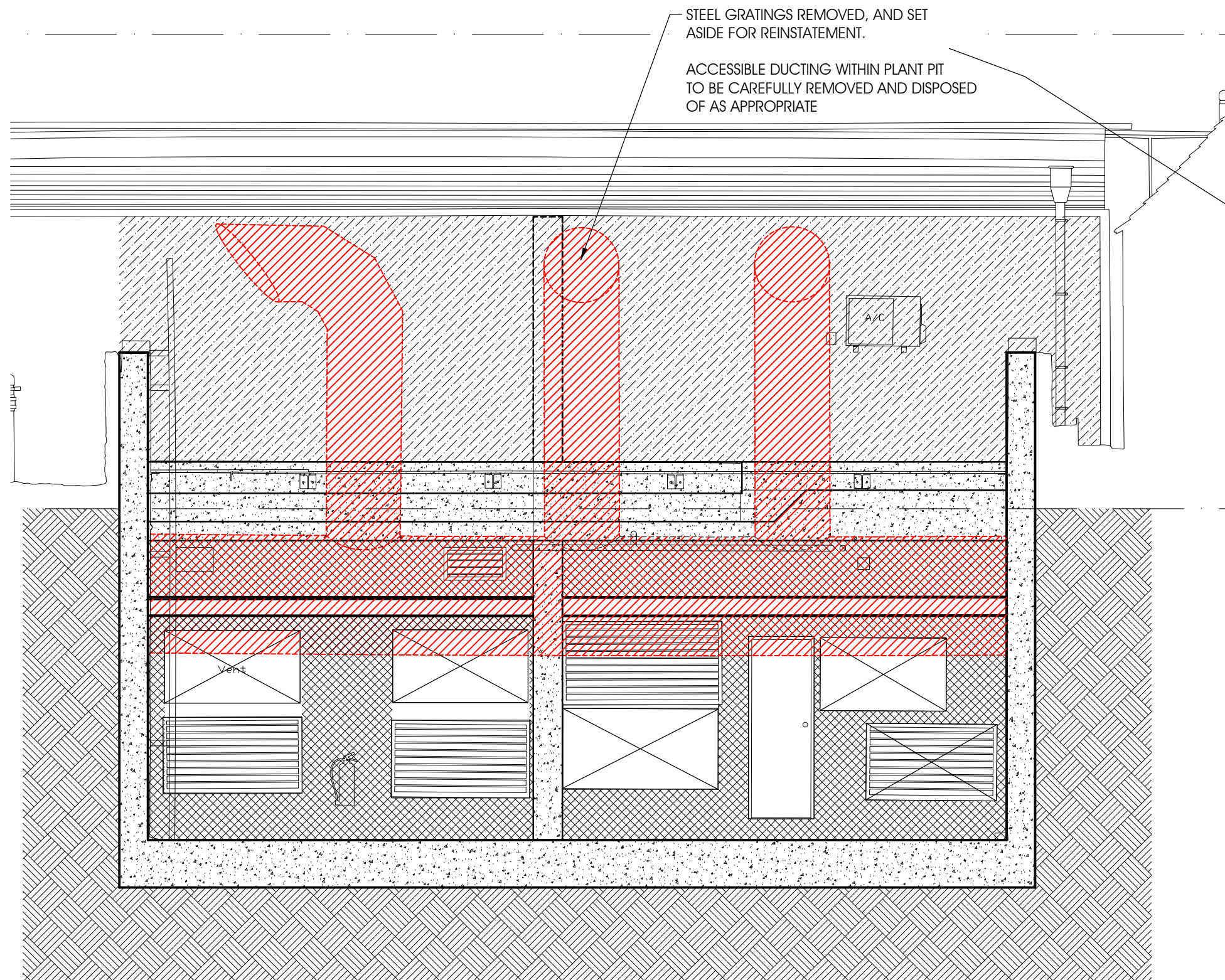
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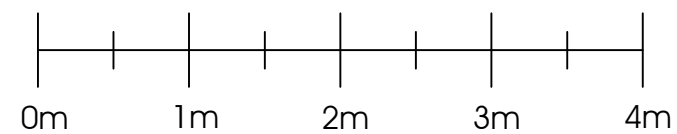
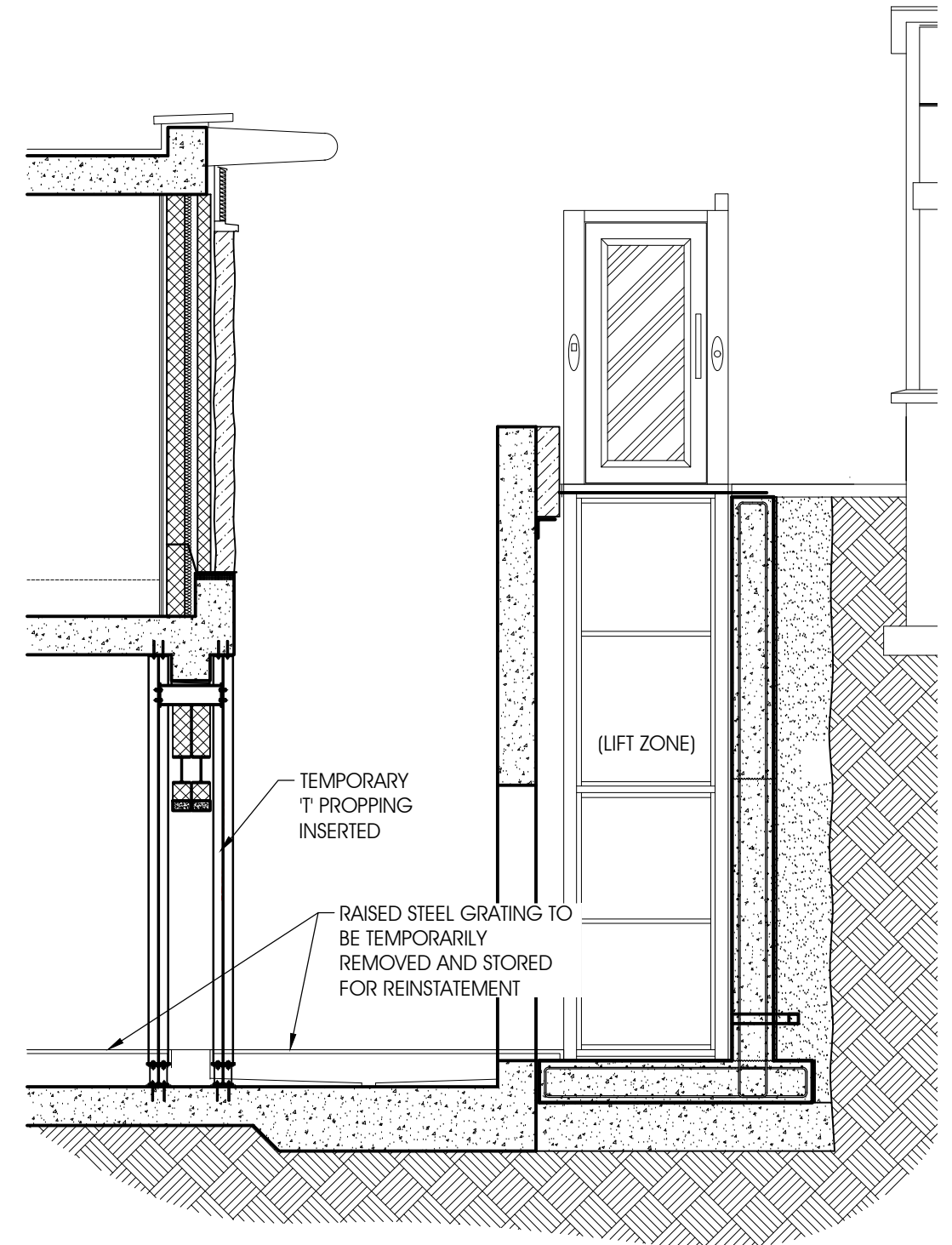
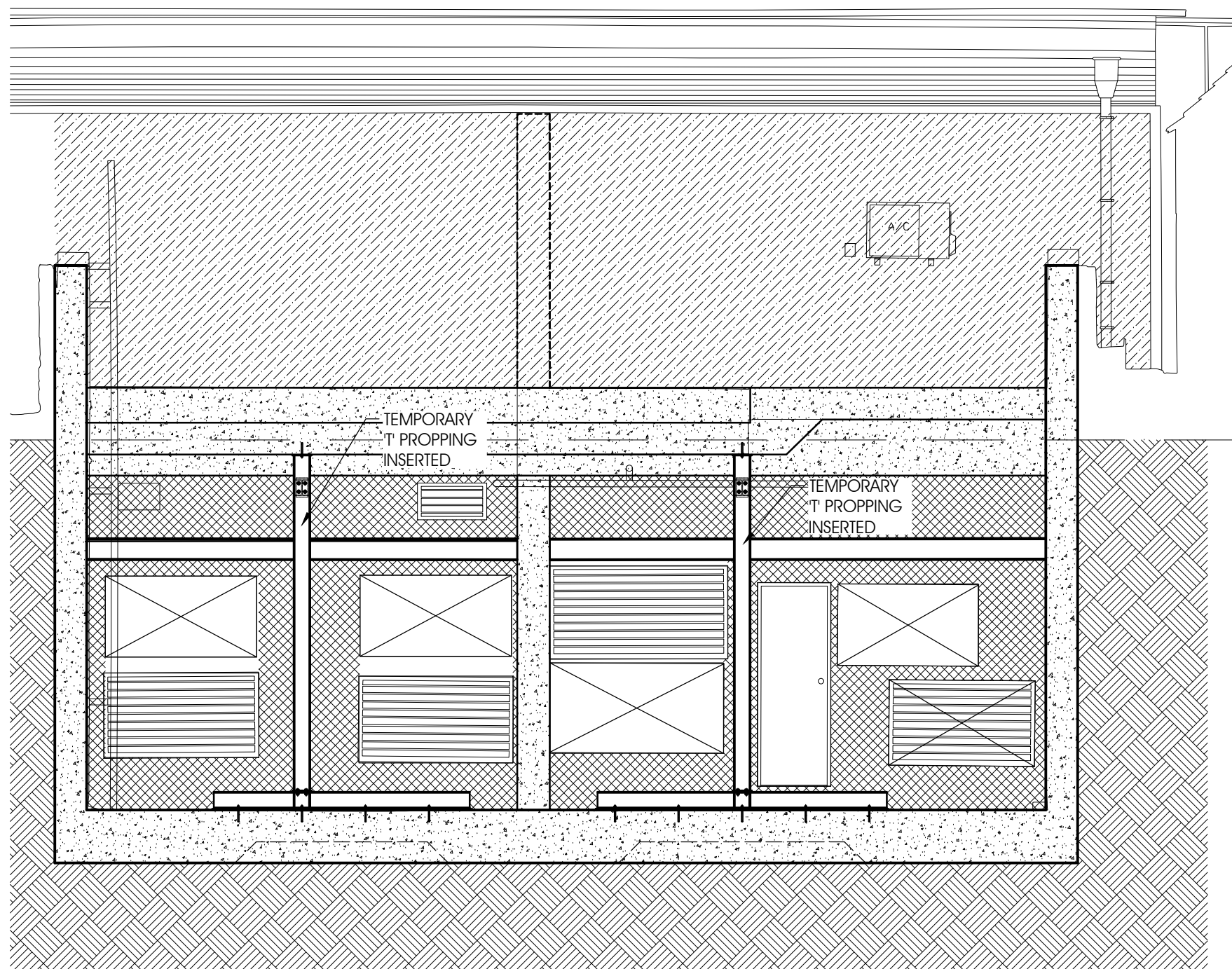
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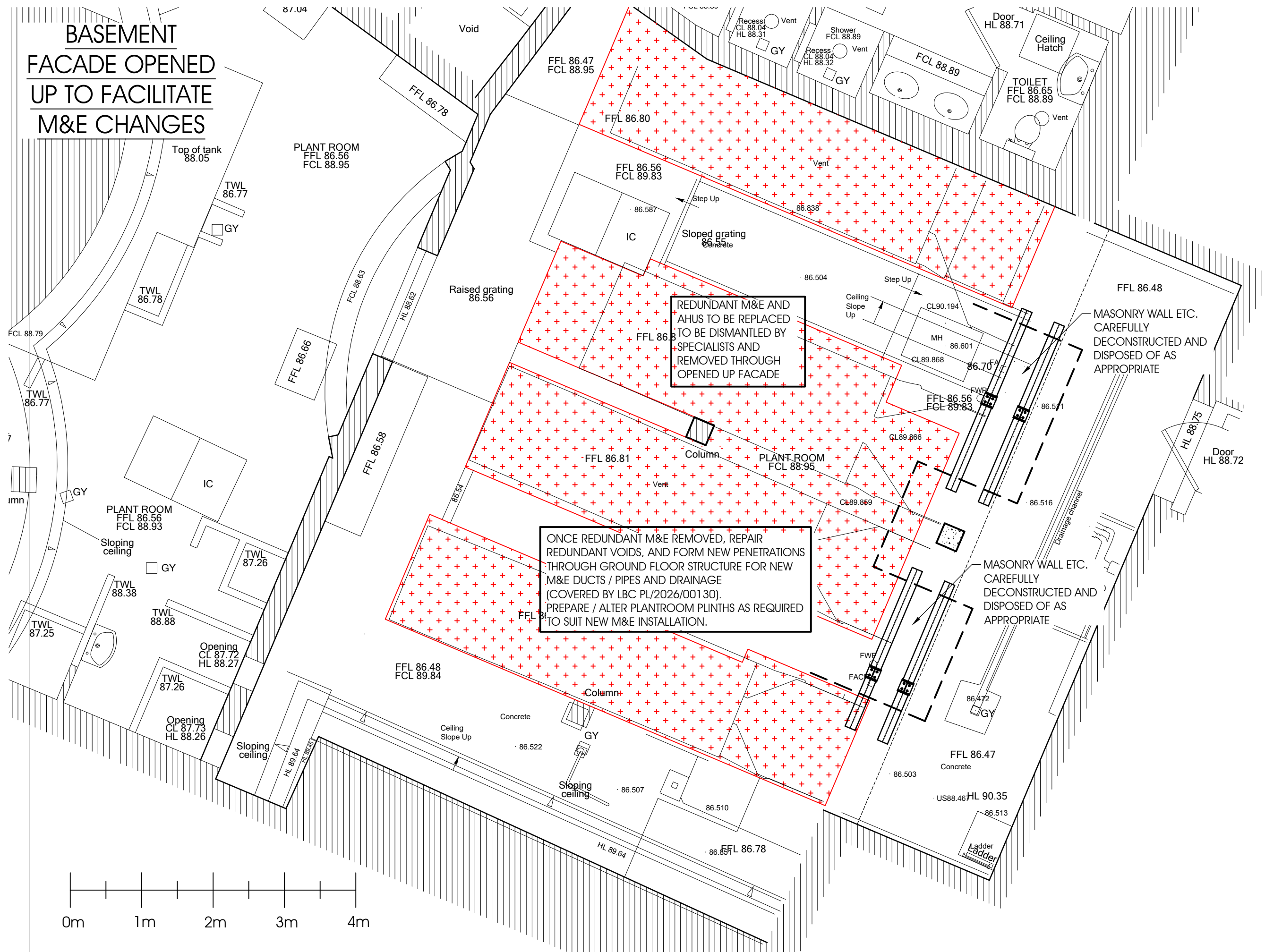


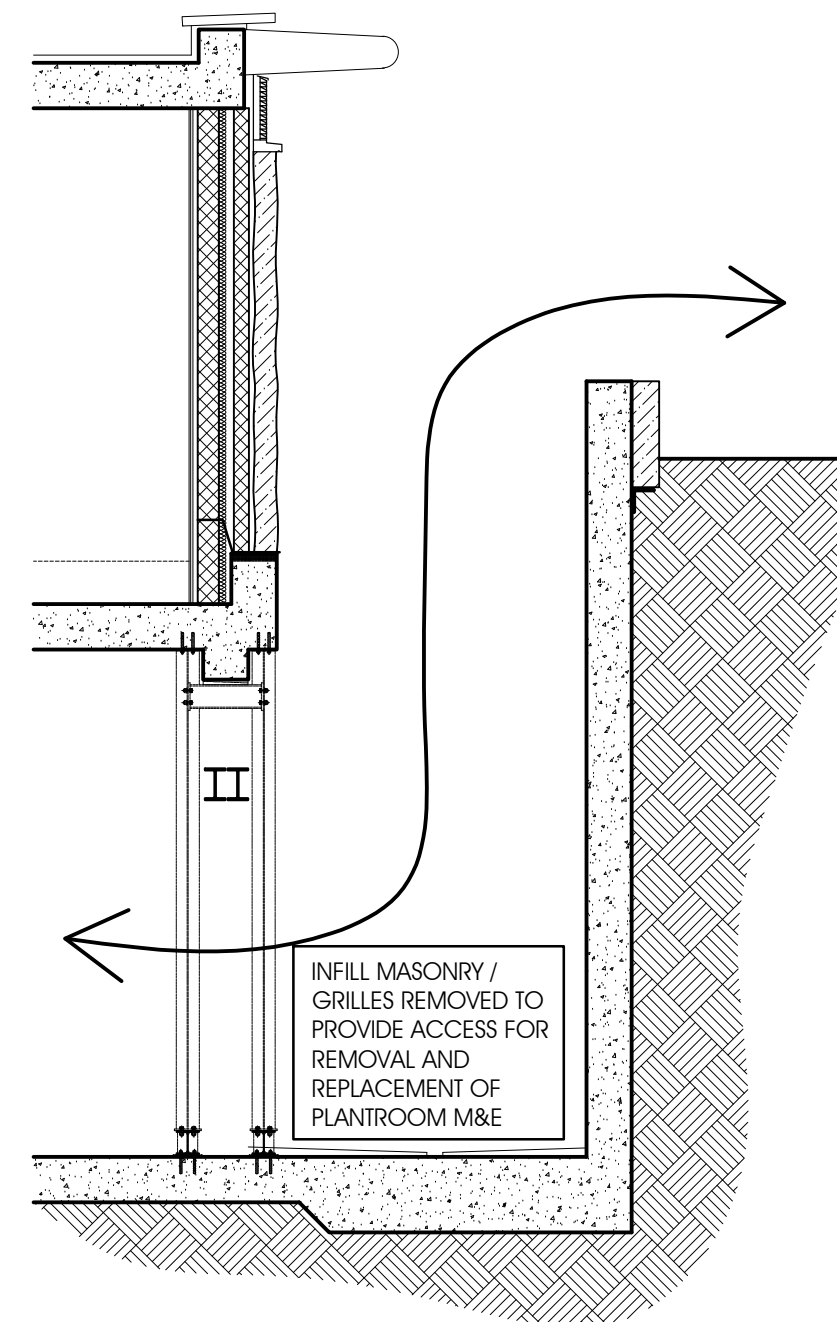
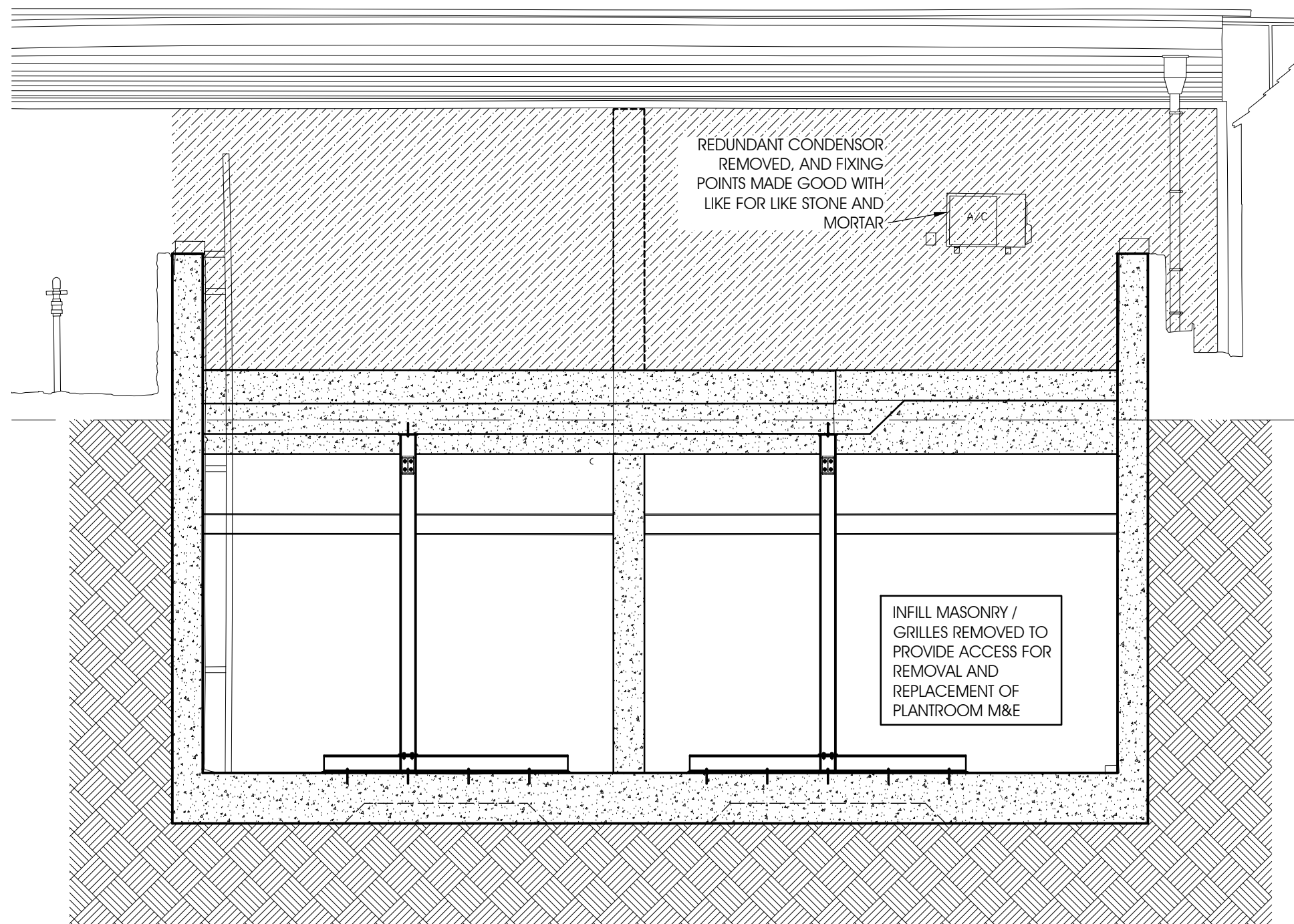
TEMPORARY WORKS INSTALLED TO BASEMENT LEVEL





BASEMENT FACADE OPENED UP TO FACILITATE M&E CHANGES





0m 1m 2m 3m 4m

PROVIDE TEMPORARY SECURITY MEASURES / WEATHER PROTECTION MEASURES WHILST FACADE OPENED UP

NEW PLANT INSTALLED

Top of tank 88.05

TWL 86.77

GY

TWL 86.78

PLANT ROOM
FFL 86.56
FCL 88.95

FFL 86.66

FCL 88.83

HL 88.62

IC

PLANT ROOM
FFL 86.56
FCL 88.93

Sloping ceiling

GY

TWL 88.38

TWL 88.88

Opening
CL 87.72
HL 88.27

TWL 87.26

Opening
CL 87.73
HL 88.26

Sloping ceiling

HL 89.64

HL 88.85

REPLACEMENT M&E INSTALLATION INSERTED INTO PLANTROOM (AHUs).

FFL 86.78

Void

FFL 88.89

Recess
CL 88.04
HL 88.31

Vent

Shower
FCL 88.89

GY

Recess
CL 88.04
HL 88.32

GY

FCL 88.89

Door
HL 88.71

Ceiling Hatch

TOILET
FFL 86.65
FCL 88.89

Vent

FFL 86.48

86.513

US88.467

HL 88.75

Door
HL 88.72

86.511

86.516

Drainage channel

US88.320

86.472

GY

FFL 86.47

Concrete

86.503

US88.467

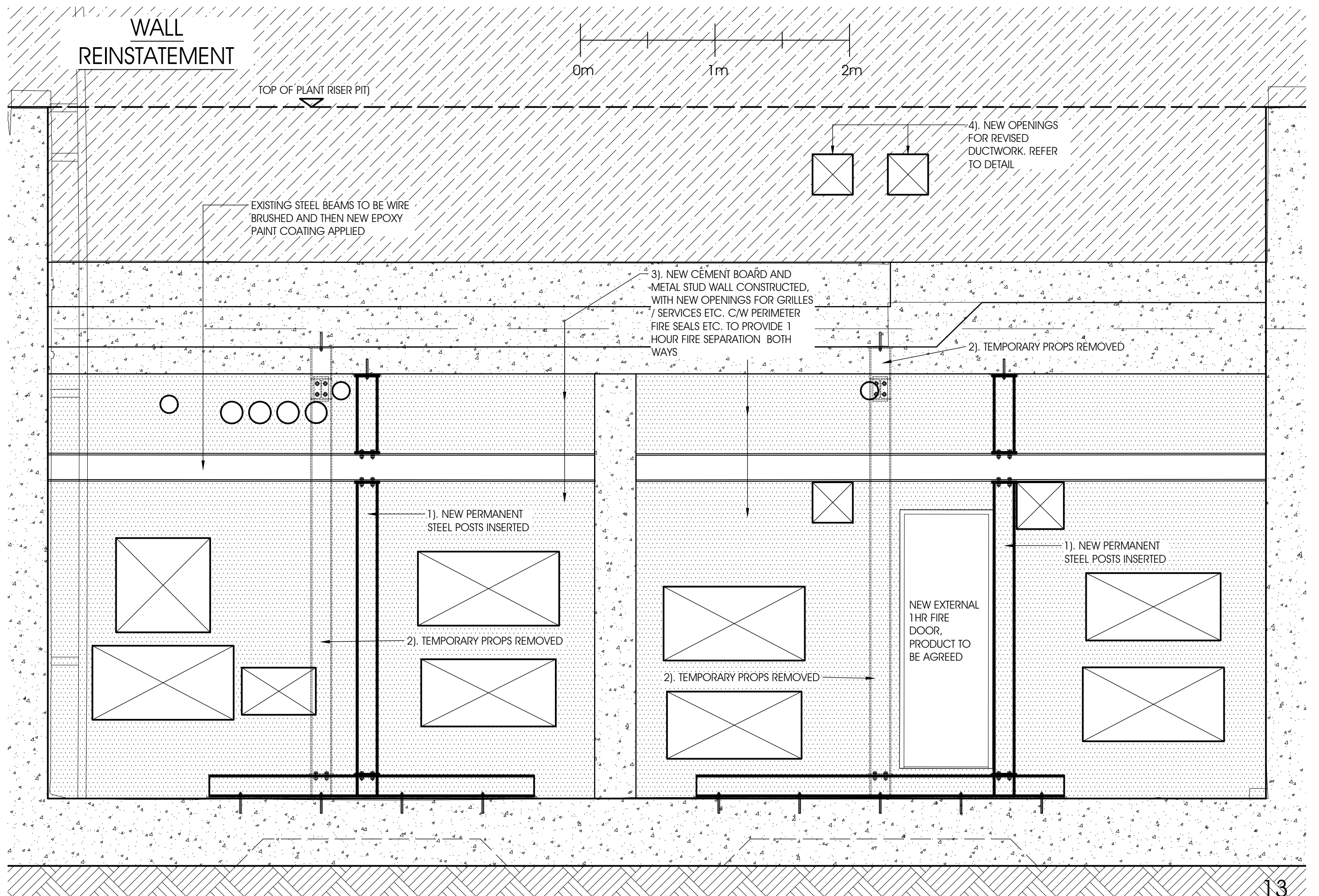
HL 90.35

86.513

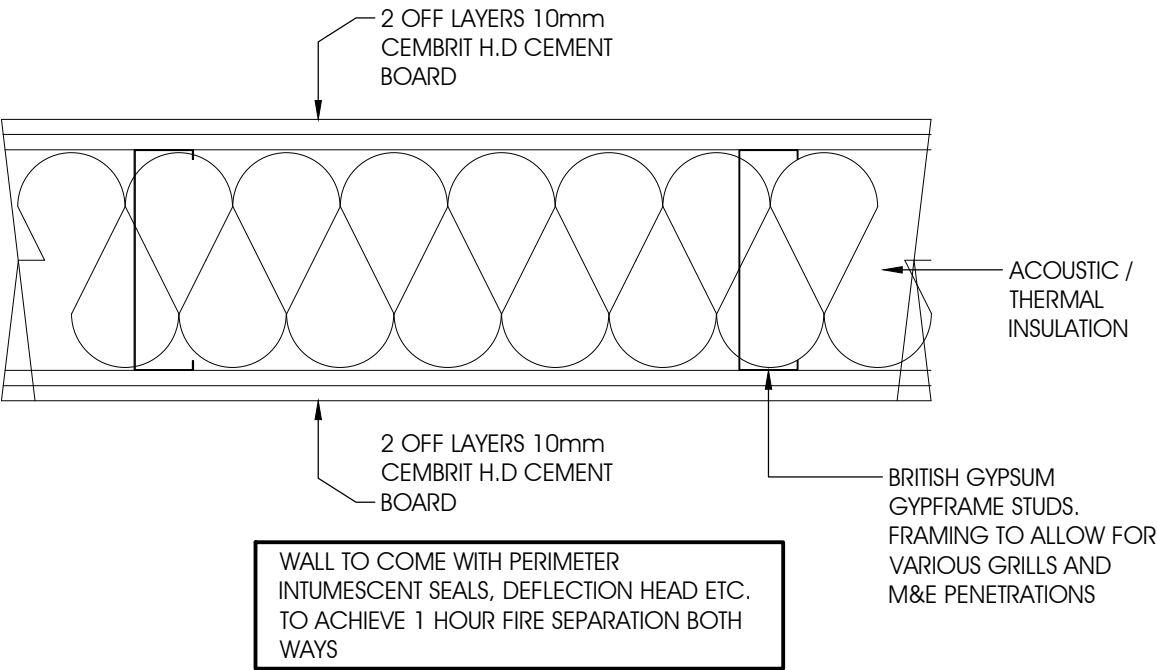
Ladder

ONCE NEW PLANT WITH PLANTROOM, REINSTATE EXTERNAL PLANTROOM WITH NEW CEMENT BOARD METAL STUD PARTITION. PERMANENT STEEL PROFILES INSTALLED.

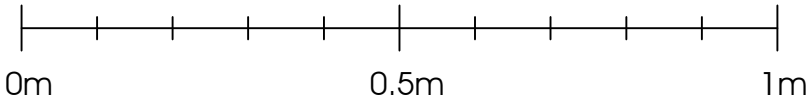
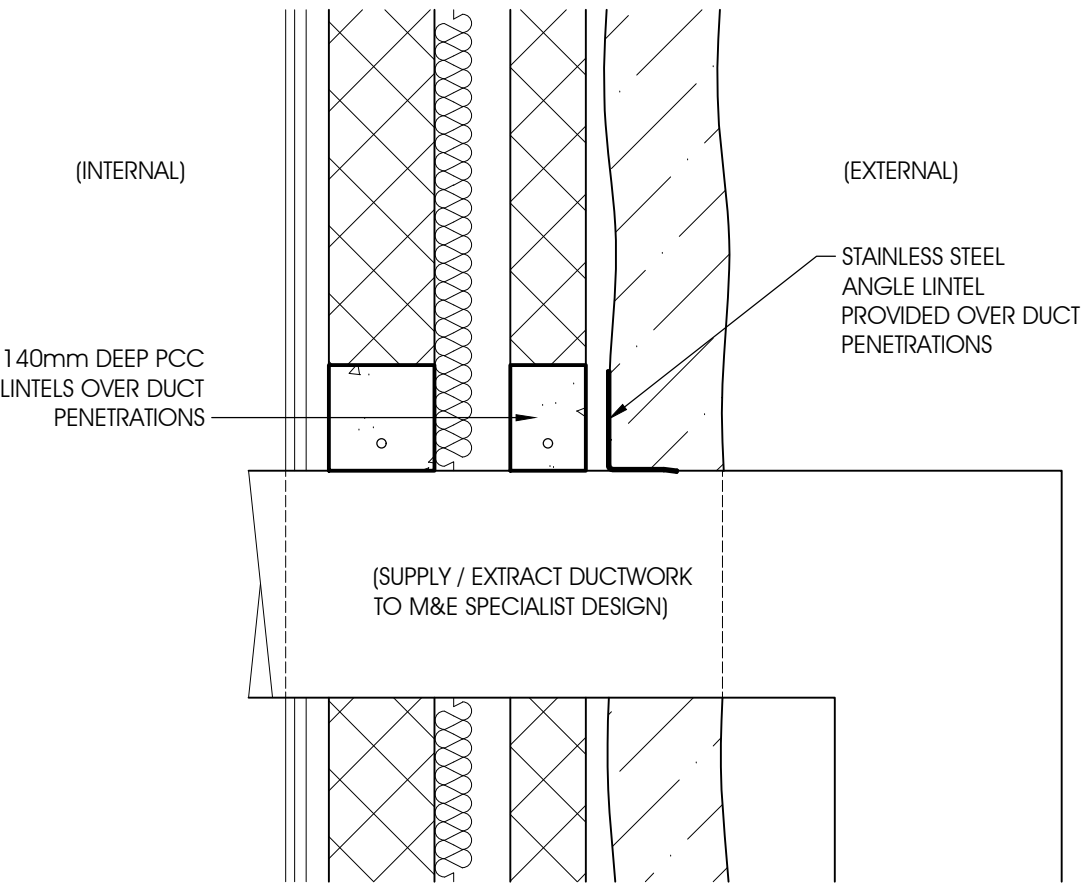
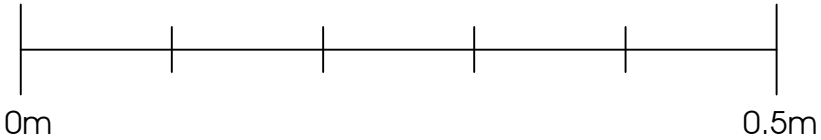
0m 1m 2m 3m 4m



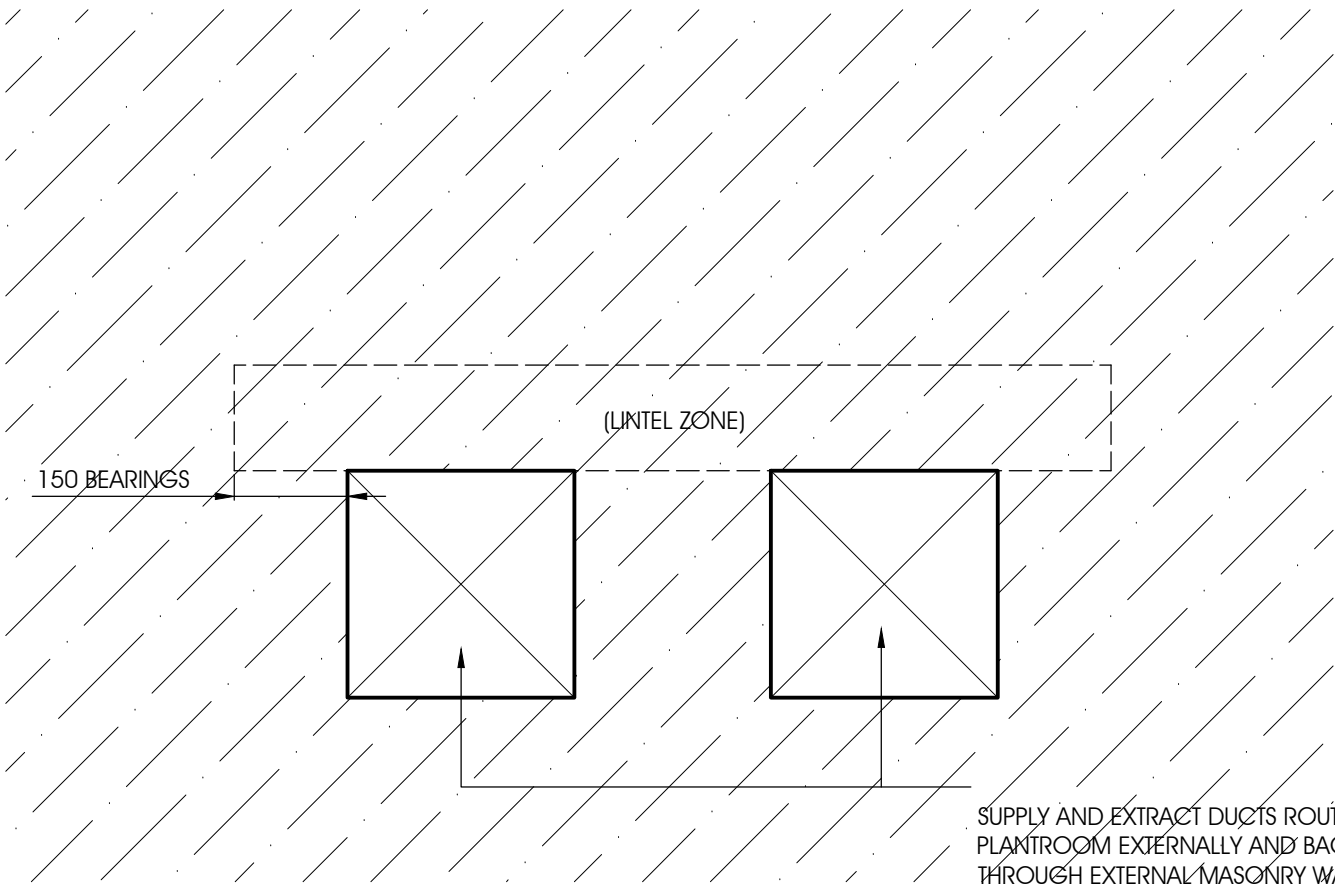
LOCAL DETAILS



PLANTROOM WALL DETAIL
1:5

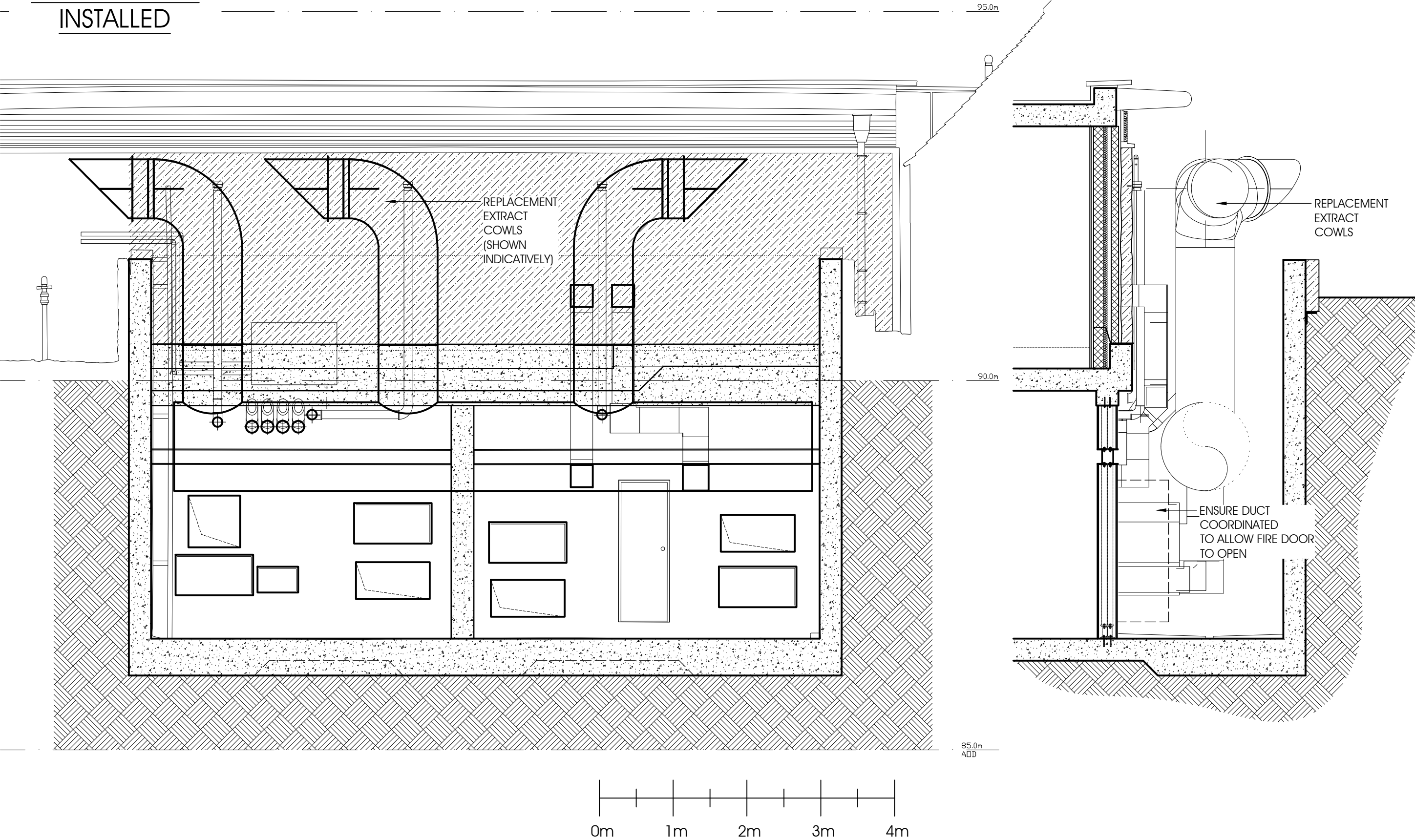


G.F WALL PENETRATION
1:10



SUPPLY AND EXTRACT DUCTS ROUTED FROM PLANTROOM EXTERNALLY AND BACK THROUGH EXTERNAL MASONRY WALL (AVOIDS CUTTING THROUGH REINFORCED CONCRETE GROUND FLOOR SUSPENDED SLAB, WHICH WOULD POTENTIALLY COMPROMISE THE STRUCTURE)

EXTERNAL M&E
INSTALLED



NEW GRATING INSTALLED TO SUIT
REPLACEMENT M&E INSTALLATION

