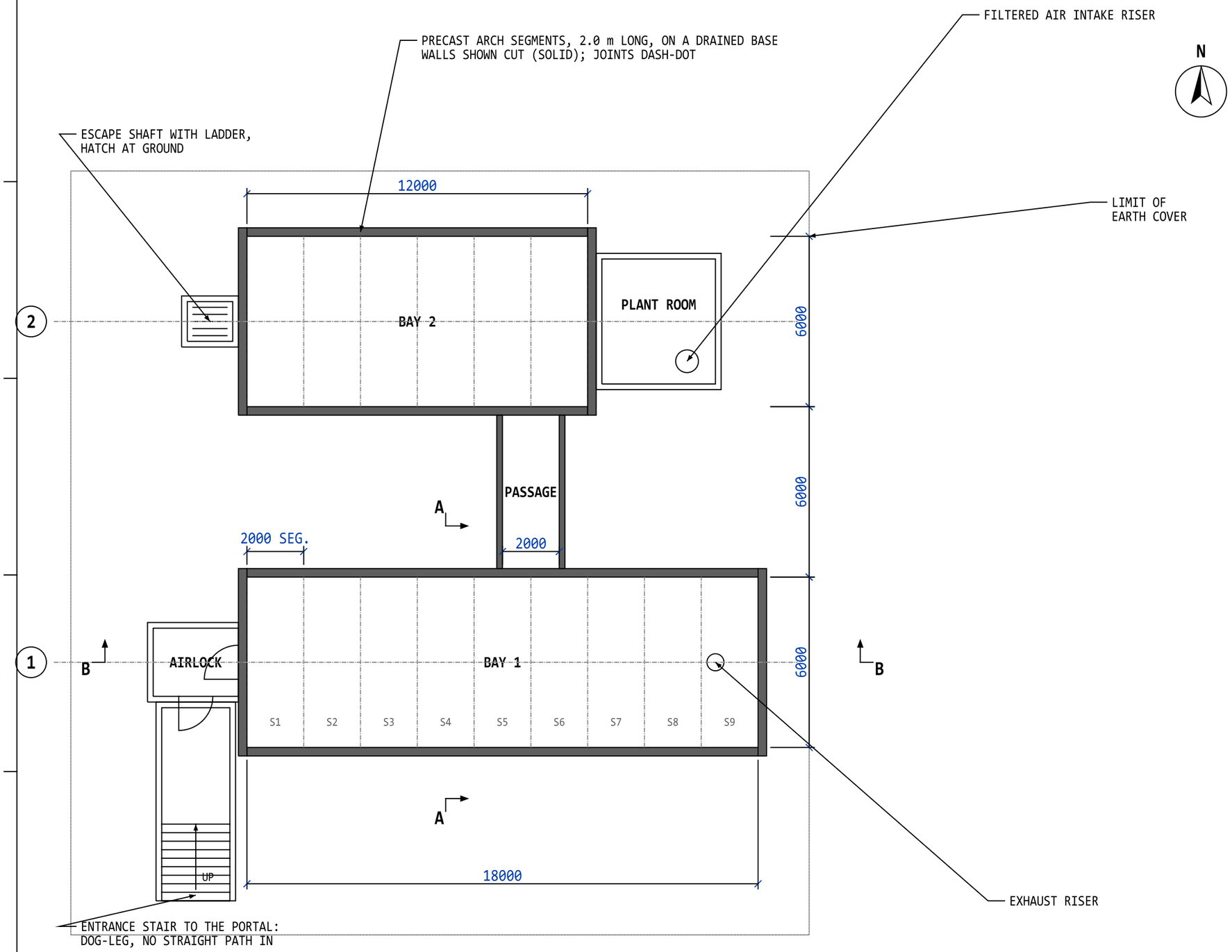


PLAN - TWO-BAY PRECAST ARCH COMPLEX

SCALE 1:150 - BAYS 6.0 m WIDE, 18.0 m AND 12.0 m LONG

NOTES

1. ALL DIMENSIONS IN MILLIMETRES, LEVELS IN METRES BELOW FINISHED GROUND LEVEL (FGL).
2. REFERENCE CONFIGURATION FOR ILLUSTRATION. SEGMENT PROFILE, THICKNESS, REINFORCEMENT, EARTH COVER AND OPENINGS ARE FIXED BY THE ARCH DESIGNER FOR THE SITE AND THE PROTECTION LEVEL.
3. PROTECTIVE DESIGN VALUES ARE NOT SHOWN ON THIS SET. THEY COME FROM THE ARCH DESIGN AND ITS VALIDATION.
4. CONCRETE TO IS 456; PRECAST ELEMENTS TO IS 15916 PRACTICE; REINFORCEMENT TO IS 1786.
5. WATERPROOFING MEMBRANE WITH PROTECTION BOARD OVER ALL BURIED SURFACES; DRAINS AT EVERY FOOT TO A SUMP.
6. BACKFILL IN COMPACTED LAYERS, BOTH SIDES TOGETHER (SHEET 004).
7. ENTRANCE AS A DOG-LEG THROUGH AN AIRLOCK; ESCAPE SHAFT AT THE FAR END; FILTERED AIR FROM THE PLANT ROOM.
8. SEE SHEET 002 FOR SECTIONS AND SHEET 003 FOR DETAILS.

REFERENCE CONFIGURATION - NOT FOR CONSTRUCTION

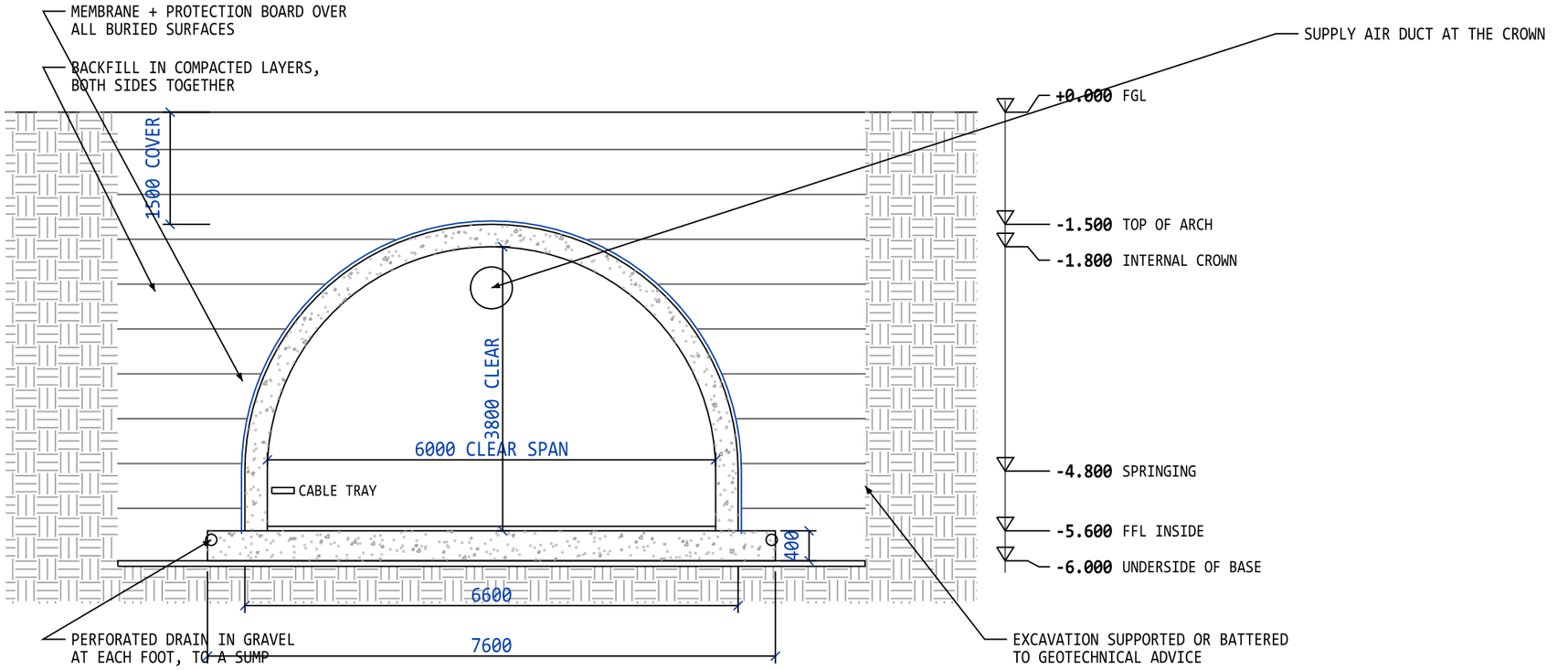
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PRECAST UNDERGROUND BUNKER - REFERENCE CONFIGURATION

GENERAL ARRANGEMENT - PLAN

TWO-BAY COMPLEX: ENTRANCE, AIRLOCK, BAYS, PLANT, ESCAPE

DWG NO	SCALE @ A3	SHEET	REV
NMX-UBK-22-001	1:150	1 OF 4	A
DATE	UNITS	DRAWN	STATUS
24-10-2026	mm / m	NMX-DO	REFERENCE

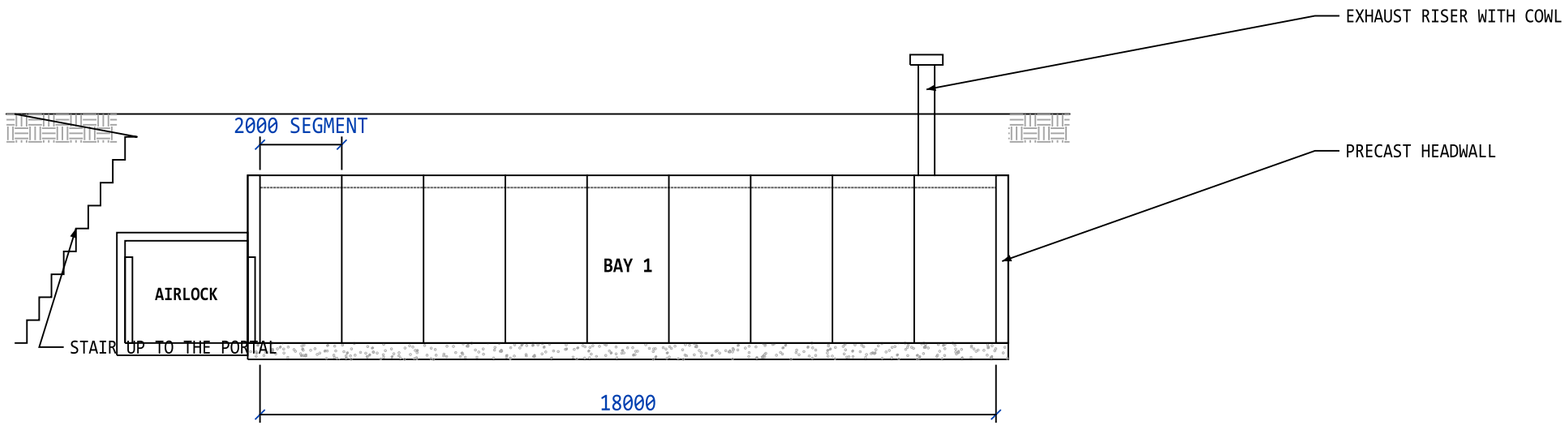


SECTION A-A - ONE BAY

SCALE 1:75

SECTION B-B - ALONG BAY 1

SCALE 1:150



NOTES

1. ARCH, LEGS AND BASE ARE SHOWN AT REFERENCE SIZES; THE ARCH DESIGNER FIXES THE PROFILE AND THICKNESS.
2. EARTH COVER IS PART OF THE STRUCTURE: ITS DEPTH AND COMPACTION ARE DESIGN ITEMS, CHECKED ON SITE.
3. CLEAR HEIGHT AND SPAN ARE SET FROM WHAT THE BAY MUST HOLD, PLUS SERVICES AT THE CROWN AND WALLS.
4. SEE SHEET 003 FOR DETAILS.

REFERENCE CONFIGURATION - NOT FOR CONSTRUCTION

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PRECAST UNDERGROUND BUNKER - REFERENCE CONFIGURATION

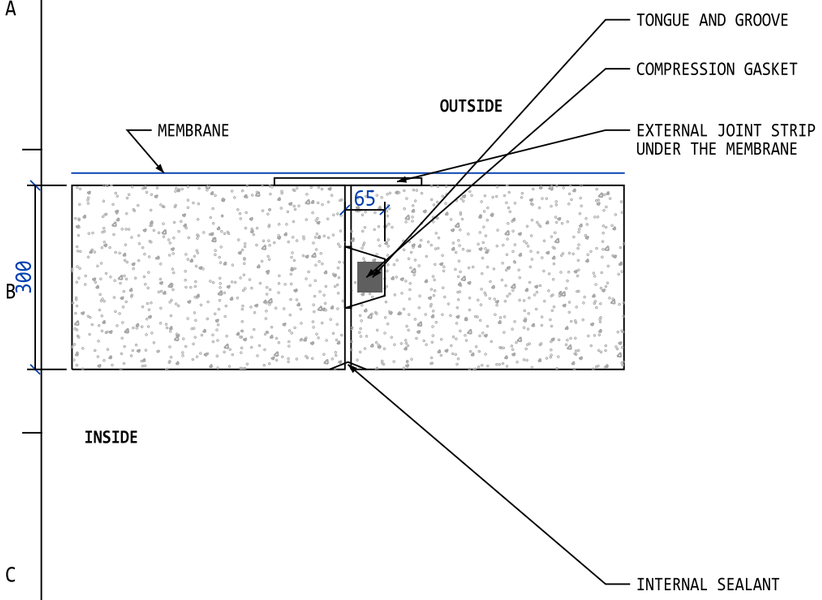
SECTIONS A-A AND B-B

ARCH PROFILE, EARTH COVER, BASE, DRAINS, LEVELS

DWG NO	SCALE @ A3	SHEET	REV
NMX-UBK-22-002	1:75 / 1:150	2 OF 4	A
DATE	UNITS	DRAWN	STATUS
24-10-2026	mm / m	NMX-DO	REFERENCE

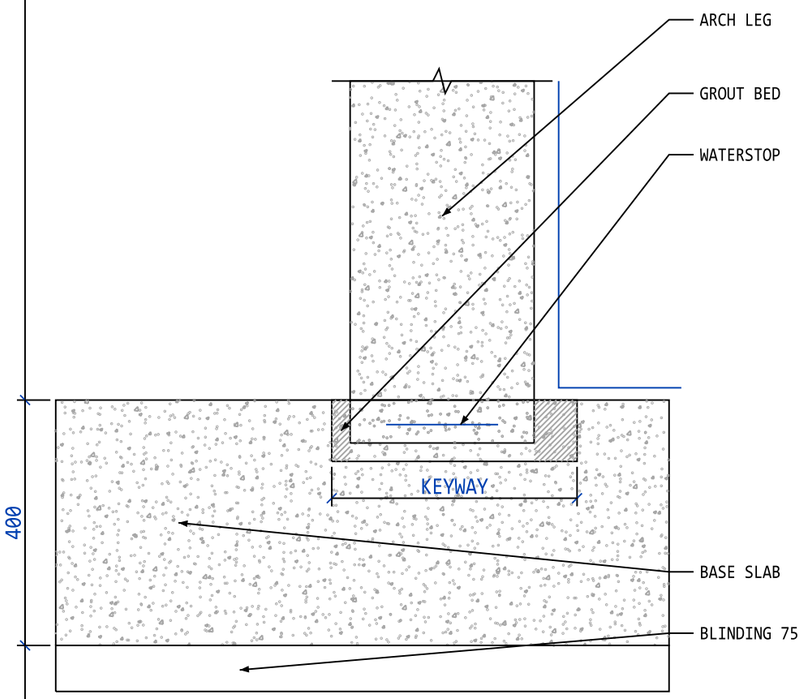
D1 SEGMENT JOINT - SECTION

SCALE 1:10



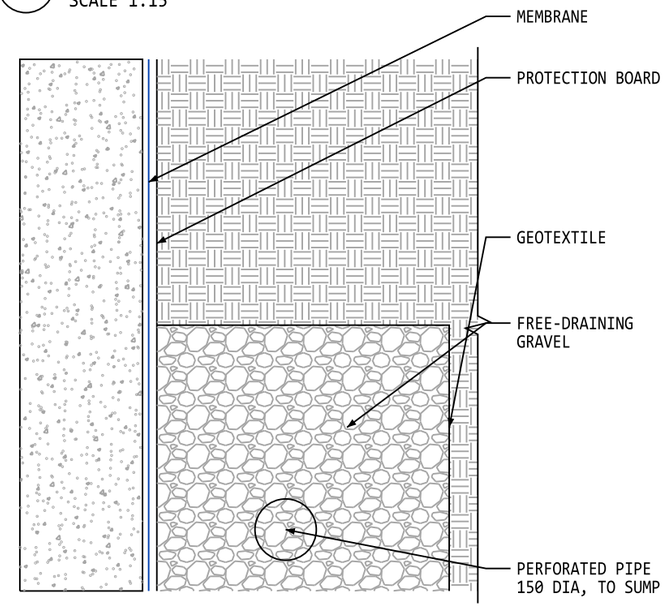
D2 ARCH FOOT ON THE BASE

SCALE 1:10



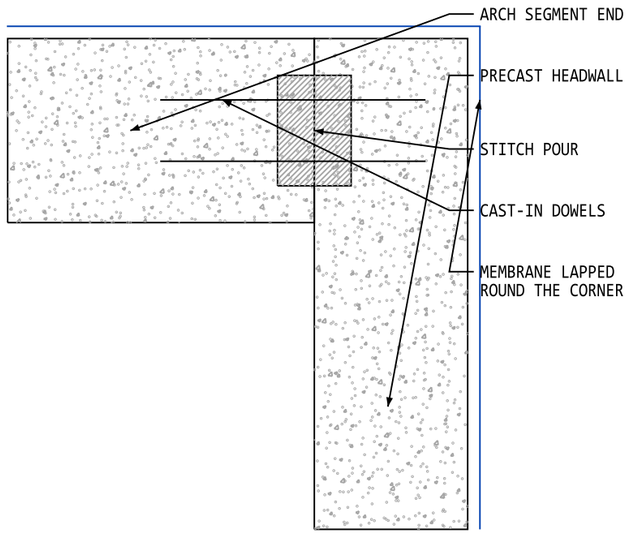
D3 MEMBRANE AND DRAIN

SCALE 1:15



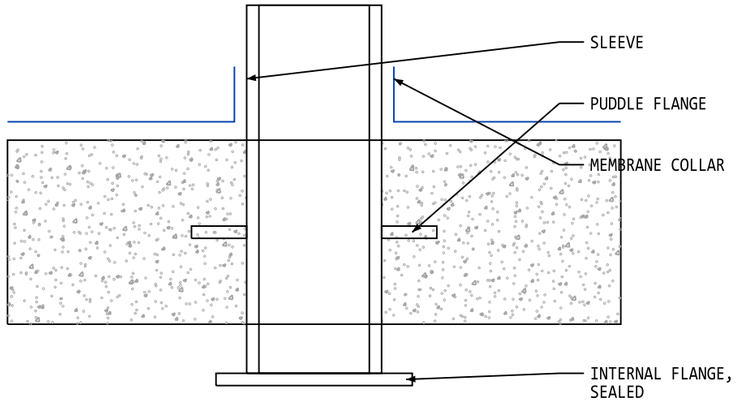
D4 HEADWALL TO ARCH

SCALE 1:10



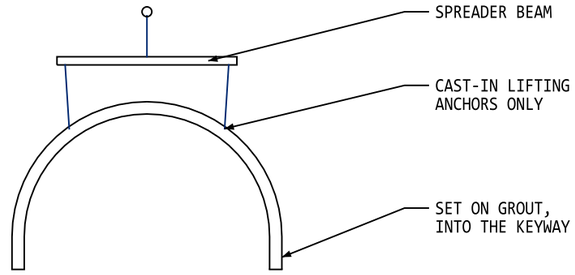
D5 SERVICE PENETRATION

SCALE 1:10



D6 LIFTING A SEGMENT

SCALE 1:150



REFERENCE CONFIGURATION - NOT FOR CONSTRUCTION

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PRECAST UNDERGROUND BUNKER - REFERENCE CONFIGURATION

CONSTRUCTION DETAILS D1 - D6

JOINT, FOOT, DRAIN, HEADWALL, PENETRATION, LIFT

DWG NO	SCALE @ A3	SHEET	REV
NMX-UBK-22-003	AS NOTED	3 OF 4	A
DATE	**UNITS**	**DRAWN**	**STATUS**
24-10-2026	mm / m	NMX-DO	REFERENCE

1 EXCAVATE AND BLIND

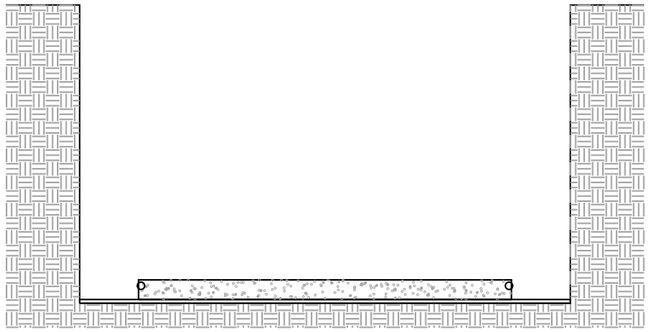
SCALE 1:125



EXCAVATION TO FORMATION, SUPPORTED
OR BATTERED; BLINDING LAID.
HP1: FORMATION INSPECTED.

2 BASE SLAB AND DRAINS

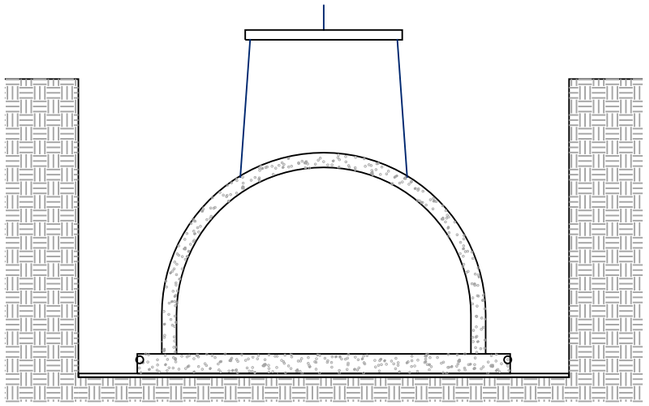
SCALE 1:125



BASE CAST WITH KEYWAYS; DRAINS
LAID TO FALL, TO THE SUMP.

3 SET THE SEGMENTS

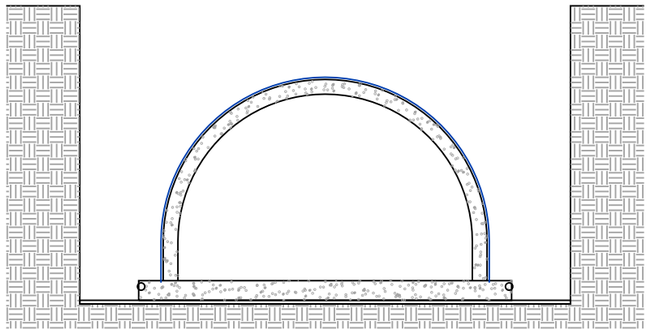
SCALE 1:125



SEGMENTS LIFTED ON CAST-IN ANCHORS
AND SET ON GROUT, JOINT BY JOINT.
HP2: LINE, LEVEL, JOINT GAPS.

4 SEAL AND WATERPROOF

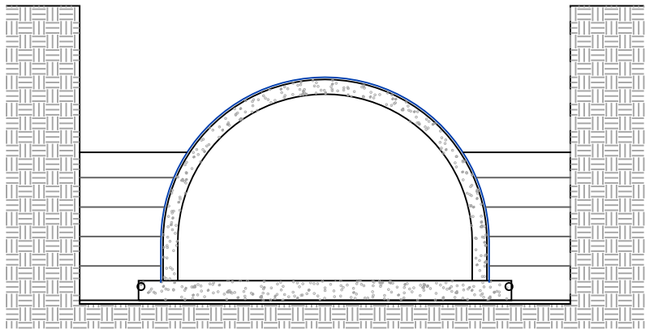
SCALE 1:125



JOINTS SEALED; MEMBRANE AND
PROTECTION BOARD APPLIED.
HP3: MEMBRANE TESTED BEFORE COVER.

5 BACKFILL IN LAYERS

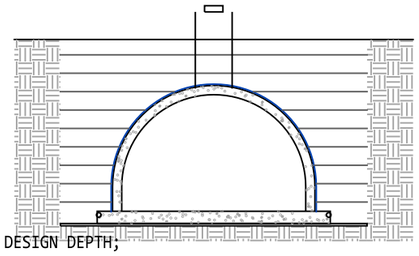
SCALE 1:125



BOTH SIDES TOGETHER, IN COMPACTED
LAYERS, NEVER FAR APART IN LEVEL.
HP4: COMPACTION TESTED PER LAYER.

6 COVER, VENT, FINISH

SCALE 1:200



EARTH COVER TO THE DESIGN DEPTH;
RISERS, PORTAL AND ESCAPE HATCH
FINISHED; THEN FIT-OUT AND TEST.

REFERENCE CONFIGURATION - NOT FOR CONSTRUCTION

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PRECAST UNDERGROUND BUNKER - REFERENCE CONFIGURATION

INSTALLATION SEQUENCE

SIX STAGES, FOUR HOLD POINTS

DWG NO	SCALE @ A3	SHEET	REV
NMX-UBK-22-004	1:125 / 1:200	4 OF 4	A
DATE	UNITS	DRAWN	STATUS
24-10-2026	mm / m	NMX-DO	REFERENCE