

ALL DIMENSIONS ARE IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE.

2. THE MINIMUM DEPTH OF PROTECTION FROM THE GRADE SURFACE TO THE GROWN OF GRANULITE PIPES WITHOUT COVER SHOULD BE AS FOLLOWS:

A) GRADES AND DEVELOPMENTS WITHOUT ANY POSSIBILITY OF VEHICULAR ACCESS
-DEPTH NOT LESS THAN 0.5m (THIS WOULD NORMALLY RELATE TO DRAINS IN RESIDENTIAL PROPERTY - THIS COVERAGE OF THIS NATURE ARE UNDESIRABLE AND SHOULD BE INSTALLED IN ACCORDANCE WITH THE CURRENT BUILDING REGULATIONS)

B) DRIVEWAYS, PARKING AREAS AND YARDS WITH HEIGHT RESTRICTIONS TO PREVENT ENTRY BY VEHICLES WITH A GROSS VEHICLE WEIGHT IN EXCESS OF 5 TONNES - DEPTH NOT LESS THAN 0.75m

C) DRIVEWAYS, PARKING AREAS AND NARROW STREETS WITHOUT FOOTPATHS OR DRIVEWAYS DEVELOPED WITH A LIMITED ACCESS FOR VEHICLES WITH A GROSS VEHICLE WEIGHT IN EXCESS OF 7.5 TONNES - DEPTH NOT LESS THAN 0.9m

D) DRIVEWAY SEVERAL METRES FROM THE SHALL BE SIMILAR TO THAT OUTLINED ABOVE

E) AGRICULTURAL LAND AND PUBLIC OPEN SPACE
-DEPTH NOT LESS THAN 0.9m

F) OTHER HIGHWAYS AND PARKING AREAS WITH UNRESTRICTED ACCESS TO VEHICLES WITH A GROSS VEHICLE WEIGHT IN EXCESS OF 7.5 TONNES - DEPTH NOT LESS THAN 1.2m

3. CLAUSE 808 MATERIAL IN ACCORDANCE WITH THE SPECIFICATION OF AUTHORITY SPECIFICATION FOR ROAD WORKS IS TO BE USED AS BACKFILL MATERIAL WHERE THE SEWER MAIN IS LOCATED IN ROADS, DRIVEWAYS OR YARDS. THE DEPTH OF THE TRENCH IS WITHIN 1m OF THE PAVED EDGE OF THE ROADWAY. CLAUSE 808 IS TO BE COMPACTED AS PER CLAUSE 808 OF THE SPECIFICATION OF AUTHORITY SPECIFICATION FOR ROAD WORKS.

4. SELECTED EXCAVATED MATERIAL MAY BE USED IN GREEN-FIELD AREAS ABOVE GRANULITE PIPES PROVIDED THAT IT IS NOT SUBJECT TO THE APPROVAL OF IRISH WATER.

5. PIPE BEDDING SHALL COMPLY WITH EN 12452 AND IGN 4-08-01 GRANULAR MATERIAL SHALL BE 14mm TO 5mm GRADUATED AGGREGATE OR 10mm SINGLE SIZED AGGREGATE IS EN 12342. CONCRETE BED, HAUNCH, RIGID PIPES, AND UNREQUIRE SHOULD BE TO IRISH WATER STANDARDS.

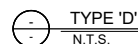
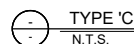
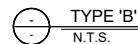
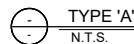
6. IN SOFT GROUND CONDITIONS (CBR <5) THE EXCAVATED MATERIAL SHALL BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH THE WASTE MANAGEMENT ACT AND CLAUSE 808 MATERIAL IN ACCORDANCE WITH THE SPECIFICATION OF AUTHORITY SPECIFICATION FOR ROAD WORKS SHALL REPLACE THE EXCAVATED MATERIAL, WRAPPED IN GEO-TEXTILE WRAPPING. ALTERNATIVELY, THE SPECIFICATION OF AUTHORITY ARRANGEMENTS, INCLUDING PILING ETC MAY BE REQUIRED WHERE THE DEPTH OF SOFT MATERIAL IS EXCESSIVE. SUCH ARRANGEMENTS ARE TO BE REFERRED TO ASSESSMENT BY IRISH WATER BEFORE ADVANCING WITH THE WORK.

7. IN GREEN FIELD AREAS, TYPE B BACKFILL MATERIAL SHALL BE USED. CLAUSE 808 WILL BE ALLOWED ABOVE THE SIDE HAUNCH GRANULAR MATERIAL IN THE CASE OF RIGID PIPES. A GRANULAR SURROUND OF A MINIMUM DEPTH OF 150mm TO THE GROWN OF THE PIPE IS REQUIRED FOR FLOWN PIPES, AND TYPE B MATERIAL MAY BE USED AS BACKFILL ABOVE THIS. ALL RISING MAINS IN GREENFIELD AREAS SHALL HAVE A MINIMUM COVER OF 300mm OF GRANULAR MATERIAL ABOVE THE TRENCH. THE TRENCH DEPTH SHALL NOT BE SHALLOWER THAN 150mm BELOW THE ACTUAL DEPTH OF THE TRENCH WITH THE VOID FILLED WITH CLAUSE 808 MATERIAL IN ACCORDANCE WITH THE SPECIFICATION OF AUTHORITY SPECIFICATION FOR ROAD WORKS. THE GRANULAR MATERIAL SHALL BE LAID ABOVE THIS VOID BACKFILL MATERIAL.

8. THE TRENCH DEPTH SHALL NOT BE SHALLOWER THAN 150mm BELOW THE ACTUAL DEPTH OF THE TRENCH WITH THE VOID FILLED WITH CLAUSE 808 MATERIAL IN ACCORDANCE WITH THE SPECIFICATION OF AUTHORITY SPECIFICATION FOR ROAD WORKS. THE GRANULAR MATERIAL SHALL BE LAID ABOVE THIS VOID BACKFILL MATERIAL.

9. THE TRENCH DEPTH SHALL NOT BE SHALLOWER THAN 150mm BELOW THE ACTUAL DEPTH OF THE TRENCH WITH THE VOID FILLED WITH CLAUSE 808 MATERIAL IN ACCORDANCE WITH THE SPECIFICATION OF AUTHORITY SPECIFICATION FOR ROAD WORKS. THE GRANULAR MATERIAL SHALL BE LAID ABOVE THIS VOID BACKFILL MATERIAL.

10. THE TRENCH DEPTH SHALL NOT BE SHALLOWER THAN 150mm BELOW THE ACTUAL DEPTH OF THE TRENCH WITH THE VOID FILLED WITH CLAUSE 808 MATERIAL IN ACCORDANCE WITH THE SPECIFICATION OF AUTHORITY SPECIFICATION FOR ROAD WORKS. THE GRANULAR MATERIAL SHALL BE LAID ABOVE THIS VOID BACKFILL MATERIAL.



The diagram illustrates a trench cross-section with the following layers and components:

- Top Layer:** A hatched area representing the ground surface or existing pavement.
- Backfill:** A cross-hatched area above the bedding. A callout states: "BACKFILL SHALL GENERALLY BE SELECTED GRANULAR FILL MATERIAL EXCEPT IN ROADS AND PAVED AREAS WHERE BACKFILL SHALL BE TYPE B GRANULAR FILL TO NRA SPECIFICATION CLAUSE 804. BACKFILL SHALL BE COMPACTED IN 300mm LAYERS. MECHANICAL COMPACTION EQUIPMENT SHALL NOT BE USED UNTIL THERE IS A MINIMUM OF 450mm OF COMPACTED MATERIAL ABOVE THE CROWN OF THE PIPE. MARKER TAPE REFER TO NOTE 9 FOR DETAILS".
- Granular Bedding:** A stippled layer directly above the pipe. A callout states: "GRANULAR BEDDING SHALL BE SINGLE SIZED AGGREGATE 10mm OR GRADED AGGREGATE 14mm-5mm".
- Pipe:** A circular pipe with diameter ϕ is shown at the bottom of the bedding.
- Dimensions:**
 - H:** The total height from the top of the backfill to the top of the bedding.
 - 100mm:** The thickness of the granular bedding layer.
 - 150mm:** The thickness of the compacted cover layer below the bedding.
- Labels:** "PPE" is labeled on the left side of the bedding and cover layers. "PIPE" is labeled at the bottom of the pipe.



Diagram illustrating a trench excavation cross-section. The trench is excavated into the bedrock. The trench is filled with lean mix bed and surround to pipework. The trench width is indicated as 100. The depth of the trench is indicated as VARIES. The bedrock is shown as a hatched area at the bottom.



SECTION 1-1
SCALE: 1:20

uPVC PIPES BEDDED IN CONCRETE
SCALE: 1:20

SECTION 2-2
SCALE: 1:20

NOTE:
DETAIL APPLIES WHERE COVER 'H' IS LESS THAN 1.2m IN
ROADS AND PAVED AREAS, 0.9m IN FIELDS AND FOOTPATHS
AND 0.6m IN GARDENS.

Drawing Stage:	Project Details:		<div>Notes</div> <div>1. ALL ENGINEERS DRAWINGS TO BE READ IN CONJUNCTION WITH RELEVANT DRAWINGS AND SPECIFICATIONS. 2. ALL SETTING OUT TO ARCHITECTS DRAWINGS. 3. DO NOT SCALE FROM ENGINEERS DRAWINGS. 4. ANY DISCREPANCIES BETWEEN DRAWINGS, SKETCHES, VERBAL INSTRUCTIONS AND SITE CONDITIONS TO BE REFERRED TO THE DESIGN TEAM BEFORE WORK COMMENCES. 5. ALL LEVELS ARE STRUCTURAL UNLESS NOTED OTHERWISE.</div>		Drawn by:	Checked by:	Approved by:	Date:	<div><div>CORA</div><div>CONSULTING ENGINEERS</div></div> <div>Behan House, 10 Lower Mount St., Dublin 2. D02 HT71 Tel: +353 (0)1 661 1100 e-mail: info@cora.ie Web: www.cora.ie</div>													
	Site Address:	MONAGHAN CO. CO. HQ, ROOSKY, MONAGHAN TOWN			JPC	KO'M	JFC	MAR '23														
	Client:	MONAGHAN COUNTY COUNCIL			Project Name:			Scale:							Project Number:							
	Architect:	HENRY J LYONS ARCHITECTS			CIVIC OFFICES			A.S. @ A1							2223							
	M&E Designer:				Drawing Title:			Project:							Originator:	Zone:	Level:	Type:	Discipline:	Drawing No:	Stage:	Revision:
	Contractor:				STANDARD DRAINAGE DETAILS SHEET 3			MCC							CORA	ZZ	ZZ	DR	C	0013		PL2

REVISION SCHEDULE					
REV. NO.	REV. DESCRIPTION	REV. DATE	DRAWN	CHECKED	
PL1	ISSUED FOR PRE-PLANNING DISCUSSION	16/08/2023	JPC	JFC	
PL2	ISSUED FOR PRE-PLANNING DISCUSSION	31/08/2023	JPC	JFC	

NOTES:

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL ENGINEERS & ARCHITECT'S DRAWINGS FIGURED DIMENSIONS ONLY (NOT SCALING) TO BE USED. WHERE A CONFLICT OF INFORMATION EXISTS OR IF IN ANY DOUBT - ASK.
- CONSULTANTS TO BE INFORMED IMMEDIATELY OF ANY DISCREPANCIES BEFORE WORK PROCEEDS.
- PIPE BEDDING
 - GRANULAR BEDDING FOR PIPES TO BE EITHER:
 - FREE DRAINING COARSE SAND OR
 - 10mm NOMINAL SINGLE SIZED GRAVEL OR
 - 5mm TO 10mm GRADED GRAVEL
 GRAVELS IN (i) OR (ii) CAN BE EITHER ROUNDER OR ANGULAR BUT WITH GOOD SELF COMPACTING PROPERTIES.
 - GRANULAR SURROUND & COVER FOR PIPES TO BE AS FOLLOWS:

TABLE 5/3 GRANULAR MATERIALS TO BS882		
NOMINAL PIPE DIA. (mm)	AGGREGATE TYPE	NOMINAL MAXIMUM AGGREGATE SIZE (mm)
NOT EXCEEDING 140	SINGLE SIZED GRADED	10
EXCEEDING 140 BUT NOT EXCEEDING 400	SINGLE SIZED GRADED	10, 14 OR 20 20 TO 5 OR 14 TO 5
EXCEEDING 400	SINGLE SIZED GRADED	10, 14, 20 OR 40 14 TO 5, 20 TO 5 OR 40 TO 5
- BACKFILL
 - BACKFILL UNDER FOOTPATH / CYCLEPATH / GRASS VERGE TO BE SELECTED BACKFILL TO NRA SPECIFICATION FOR ROAD WORKS CLAUSE 601, TABLE 6/1 CLASS 2C MATERIAL COMPACTED IN 300mm LAYERS.
 - BACKFILL UNDER CARRIAGEWAYS TO BE SELECTED GRANULAR MATERIAL TO NRA SPECIFICATION FOR ROADWORKS CLAUSE 601, TABLE 6/1 CLASS 6F1 OR 6F2 MATERIAL COMPACTED IN 300mm LAYERS.
- WARNING MESH

ALL PIPEWORK SHALL HAVE A 400mm WIDE WATER WARNING MESH - PLYAGE HR 400 BLUE POLYETHYLENE WARNING MESH OR SIMILAR - WITH TRACER WIRE LAID DIRECTLY OVER CENTRELINE OF THE PIPELINE AND TIED TO VALVES AT A DEPT OF 350mm BELOW THE FINISHED GROUND SURFACE.
- PIPE TESTING
 - PRESSURE TEST

ALL WATERMAINS SHOULD BE HYDRAULICALLY TESTED AFTER LAYING, FOR A PERIOD OF 24 HOURS, AT A TEST PRESSURE OF 1.5 TIMES THE SPECIFIED CLASS PRESSURE (13.5 BAR.) THE PIPELINE SHOULD BE ADEQUATELY ANCHORED OR RESTRAINED, DURING THE TEST. A TEST PUMP, WITH STOPCOCK, WATER TANK AND PRESSURE GAUGE, IS CONNECTED TO THE WATERMAIN AND OPERATED UNTIL THE GAUGE SHOWS THE REQUIRED TEST PRESSURE. (IF IT IS CONSIDERED NECESSARY, THE CALIBRATION OF THE PRESSURE GAUGE SHOULD BE VALIDATED JUST PRIOR TO THE TEST.) THE AMOUNT OF WATER IN THE TANK IS NOTED AT THE BEGINNING OF THE TEST PERIOD. AN HOUR LATER, GAUGE PRESSURE IS INSPECTED AND IF IT HAS FALLEN, TEST PRESSURE IS RESTORED BY MEANS OF A PUMP. THIS PROCESS IS REPEATED AT HOURLY INTERVALS, DURING THE TEST PERIOD. THE TOTAL QUANTITY OF WATER PUMPED TO MAINTAIN THE PRESSURE DURING THE TEST IS TERMED THE "APPARENT LEAKAGE". THE APPARENT LEAKAGE SHOULD NOT NORMALLY EXCEED 0.11 LITRES PER MILLIMETER OF NOMINAL PIPE DIAMETER, PER KILOMETER OF LENGTH, PER 24 HOURS. A REPRESENTATIVE OF DROGHEDA BOROUGH COUNCIL TO BE PRESENT DURING TESTING.
 - CHLORINATION TEST

ALL MAINS SHALL BE SWABBED AND DISINFECTED BEFORE BEING PUT IN TO SUPPLY. THE PIPELINES SHALL BE DISINFECTED WITH WATER HAVING A MINIMUM CONCENTRATION OF 20mg/l OF FREE AVAILABLE CHLORINE.

THE CHLORINATED WATER SHALL BE LEFT IN THE MAIN FOR A PERIOD OF AT LEAST 24 HOURS. CHLORINE RESIDUAL TESTS SHALL BE TAKEN AT THE END OF THE MAIN FURTHEST FROM THE POINT OF INJECTION. THE STERILISATION PROCESS SHALL BE REPEATED IF THE CHLORINE RESIDUAL IS LESS THAN 10mg/l. THE CHLORINATED WATER SHALL BE DISCHARGED INTO FOUL SEWER AFTER TESTING IS COMPLETED.
 - BACTERIOLOGICAL TEST

THE MAIN SHALL BE REFILLED AND A SAMPLE OF THE WATER SHALL BE TAKEN FOR BACTERIOLOGICAL ANALYSIS. GREAT CARE SHALL BE TAKEN WHEN OBTAINING SAMPLES FOR TESTING AND ONLY STERILE CONTAINERS SHALL BE USED. THIS SAMPLING SHALL BE CARRIED OUT IN THE PRESENCE OF A REPRESENTATIVE OF DROGHEDA BOROUGH COUNCIL. SAMPLES SHALL BE TESTED WITHIN 6 HOURS OF COLLECTION.
 - HYDRANTS

HYDRANTS SHALL BE MANUFACTURED IN ACCORDANCE WITH BS 750: 1984 TYPE 2 AND SHALL INCORPORATE A SCREW-DOWN VALVE, UNDERGROUND "GUIDE IN HEAD" TYPE WITH BAYONET LUQ OUTLETS AND FALSE SPINDLE CAP. ALL TO DROGHEDA BOROUGH COUNCILS APPROVAL. THE HYDRANT VALVE SHALL BE ANTI-CLOCKWISE OPENING.
 - SLUICE VALVES

SLUICE VALVES SHALL BE MANUFACTURED IN ACCORDANCE WITH BS 5163:1986. THEY SHALL BE DOUBLE FLANGED; DUCTILE IRON RESILIENT SEAL GATE VALVES. ALL TO DROGHEDA BOROUGH COUNCILS APPROVAL. SLUICE VALVES SHALL BE ANTI-CLOCKWISE CLOSING.
 - AIR VALVES

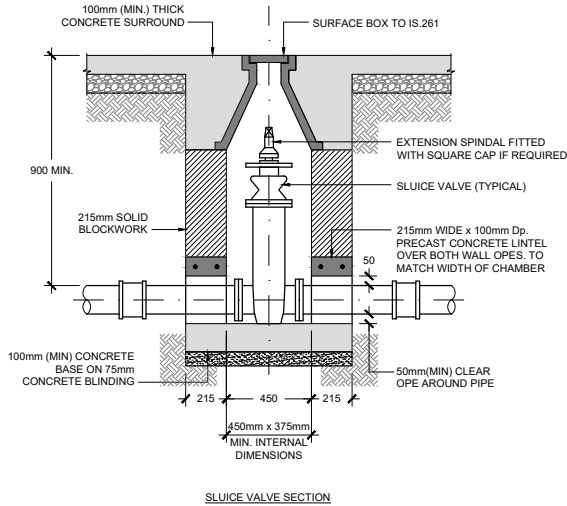
AIR VALVES TO BE MANUFACTURED IN ACCORDANCE WITH BS5159 AND TO BE TO DROGHEDA BOROUGH COUNCILS APPROVAL.
 - SURFACE COVERS

HYDRANT, SLUICE VALVE & AIR VALVE CHAMBERS SHOULD BE PROVIDED WITH CAST IRON SURFACE BOXES IN COMPLIANCE WITH THE REQUIREMENTS OF IS. 261. SURFACE BOXES FOR ROADWAYS AND AREAS ACCESSIBLE TO WHEEL TRAFFIC SHOULD BE SUBJECT TO THE APPROVAL OF DROGHEDA BOROUGH COUNCIL.
 - HYDRANT AND VALVE INDICATOR PLATES

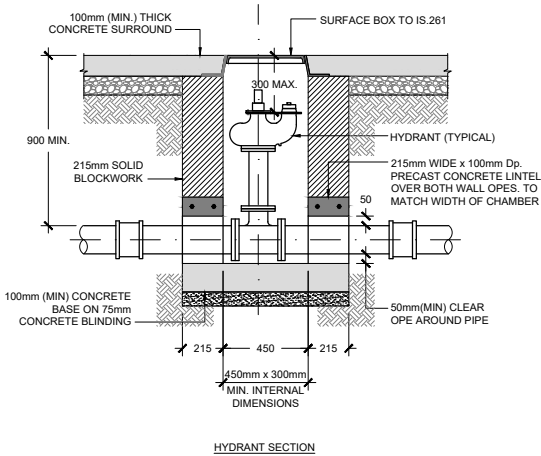
THE LOCATION OF HYDRANTS, AIR VALVES AND SLUICE VALVES SHOULD BE SHOWN BY INDICATOR PLATES POSITIONED TO THE APPROVAL OF THE LOCAL AUTHORITY. HYDRANT PLATES SHOULD COMPLY WITH THE REQUIREMENTS OF BS3251. THEY SHOULD SHOW THE DIAMETER OF THE WATERMAIN IN MILLIMETERS ON THE UPPER PART OF THE PLATE AND THE DISTANCE OF THE MARKER FROM THE HYDRANT ON THE LOWER PART OF THE PLATE. ALL CHARACTERS SHOULD BE BLACK AND THE REMAINDER OF THE FRONT FACE SHOULD CONFORM TO COLOUR REFERENCE No. 309 (CANARY YELLOW) OF BS 381C.

SLUICE VALVE, SCOUR VALVE AND AIR VALVE PLATES SHOULD BE CAST IRON MEASURING 200 x 200mm. THEY SHITERS SV, SCV OR AV AS APPROPRIATE. CAST IN RELIEF. THE PLATES SHOULD HAVE A BACKGROUND IN BLACK BITUMASTIC PAINT WITH THE LETTERS IN WHITE ENAMEL.

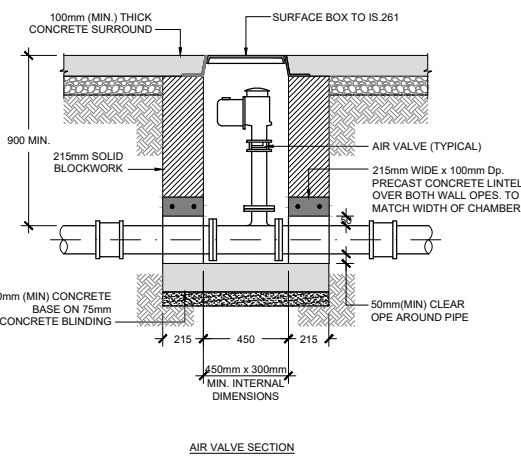
INDICATOR PLATES MAY BE FIXED TO SOLID BOUNDARY WALLS. WHERE MARKER POSTS ARE USED THEY SHOULD BE CONSTRUCTED AS SHOWN ON THE DRAWINGS.



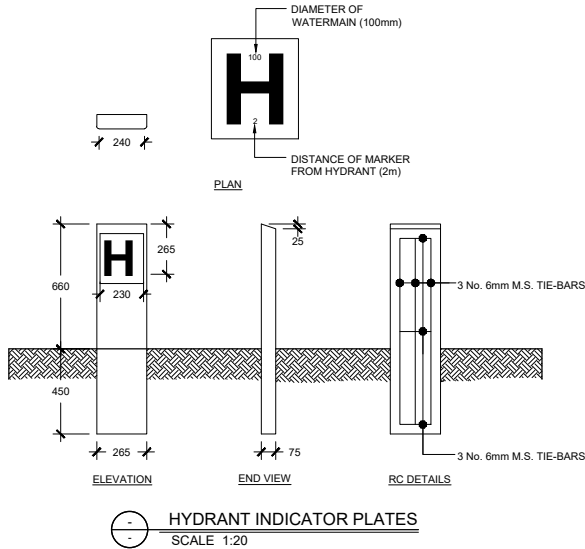
SLUICE VALVE SECTION



HYDRANT SECTION

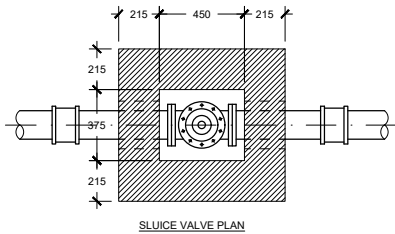


AIR VALVE SECTION

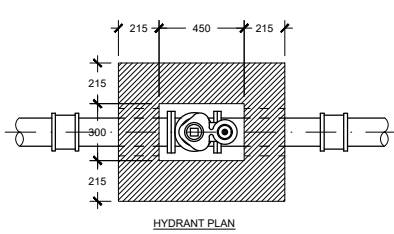


HYDRANT INDICATOR PLATES

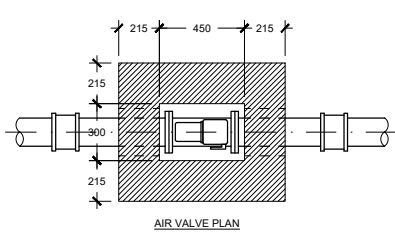
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SLUICE VALVE PLAN



HYDRANT PLAN



AIR VALVE PLAN

SLUICE VALVE CHAMBER DETAILS

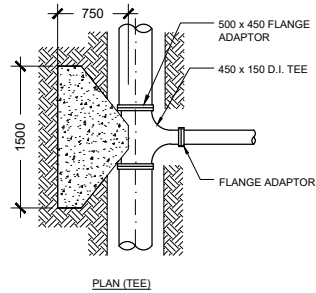
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HYDRANT CHAMBER DETAILS

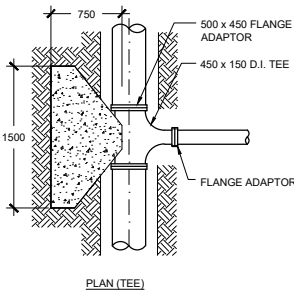
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AIR VALVE CHAMBER DETAILS

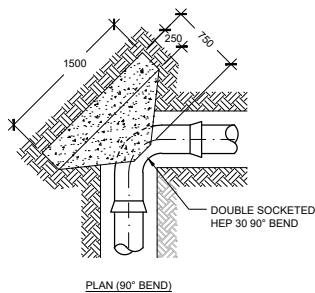
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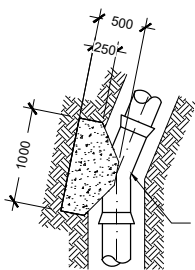
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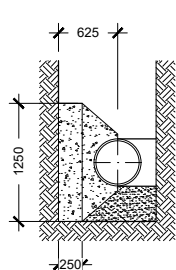
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PLAN (90° BEND)



PLAN (22.5° BEND)



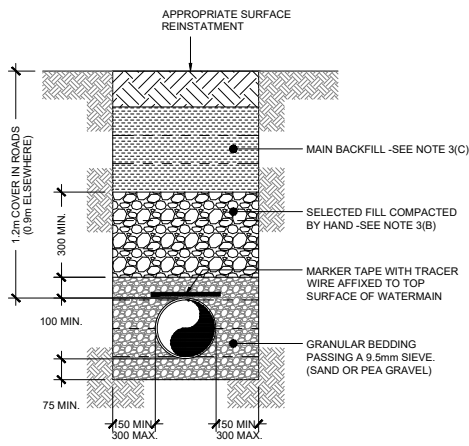
TYPICAL SECTION

THRUST BLOCK DETAILS

NOTE:

- CONCRETE ANCHOR BLOCKS SHALL BE PROVIDED ON WATERMAINS AT END ENDS, TEES, BENDS OF GREATER CURVATURE THAN 22½° AND AT BOTH SIDES OF SLUICE VALVE CHAMBERS AND HYDRANTS. ANCHOR BLOCKS SHALL ENCASE THE PIPE IN CONCRETE TO A MINIMUM THICKNESS OF 150mm ALL ROUND AND SHALL BE A MINIMUM LENGTH OF 600mm.
- THRUST BLOCK CONCRETE SHALL BE PLACED BEHIND THE SOCKET OF THE FITTING AND NOT ALLOWED AGAINST THE PIPE OR JOINT. PROVIDE 1200g VISQUEEN WRAP AROUND PIPE & JOINT IF NECESSARY TO SEPERATE THEM FROM THE THRUST BLOCK.
- CONCRETE COMPRESSIVE STRENGTH SHALL BE 20N AT 28 DAYS
- BLOCKS TO BE CAST AGAINST UNDISTURBED EARTH

PIPE DIAMETER (mm)	ANCHOR BLOCK DIMENSIONS IN METRES FOR GROUND BEARING PRESSURE 100N/mm²					
	A	B	C	D	E	F
150	1.2	0.6	0.9	0.6	0.5	1.0
200	1.6	0.6	1.2	1.2	0.6	1.4

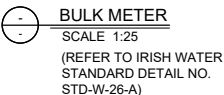
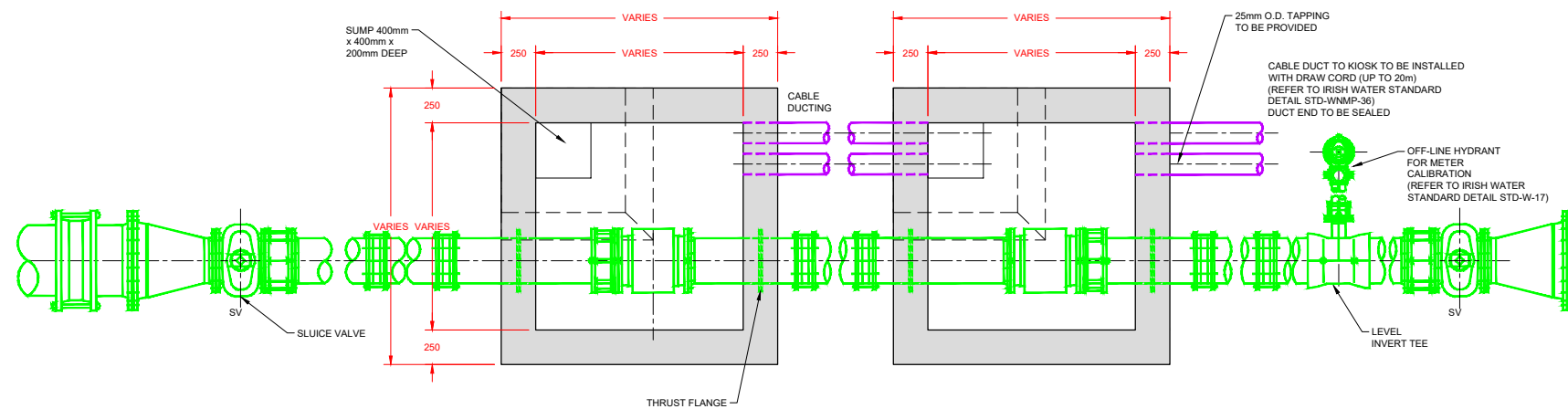
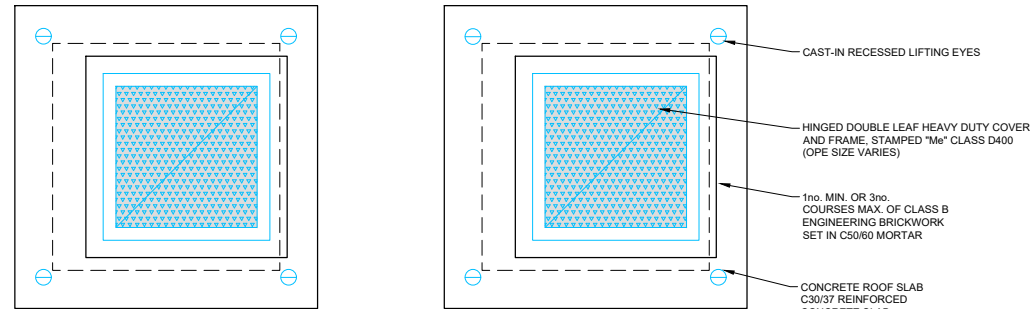
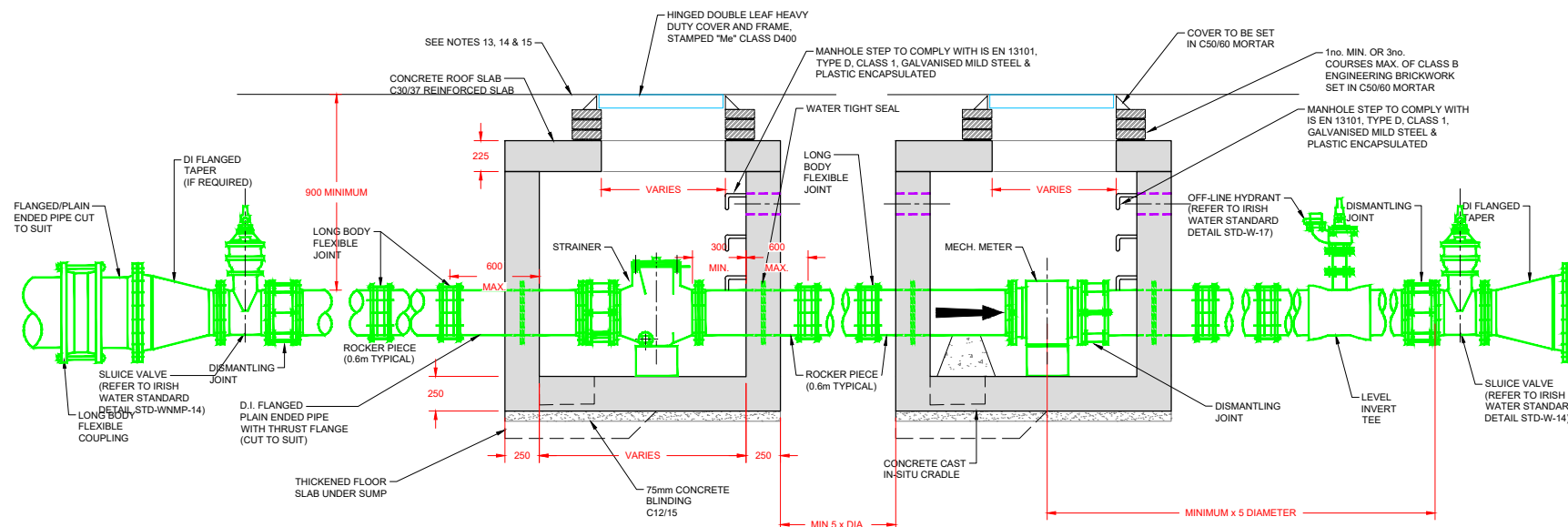


WATERMAIN TRENCH DETAIL

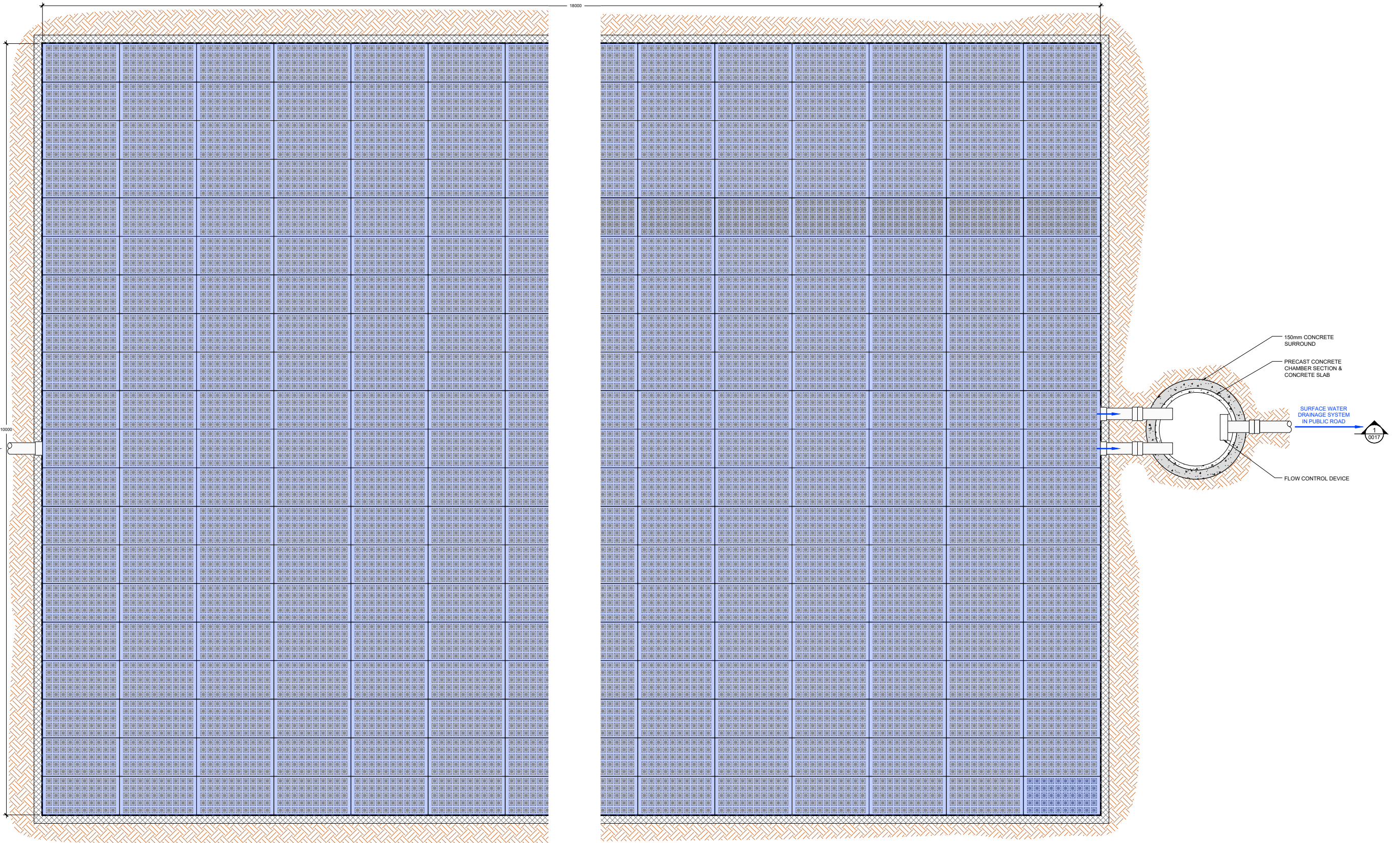
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NOTE: FOR WATERMAINS UNDER ROADS & IN CAR PARKS USE CL 804 COMPACTED BACKFILL ONLY

Drawing Stage: <

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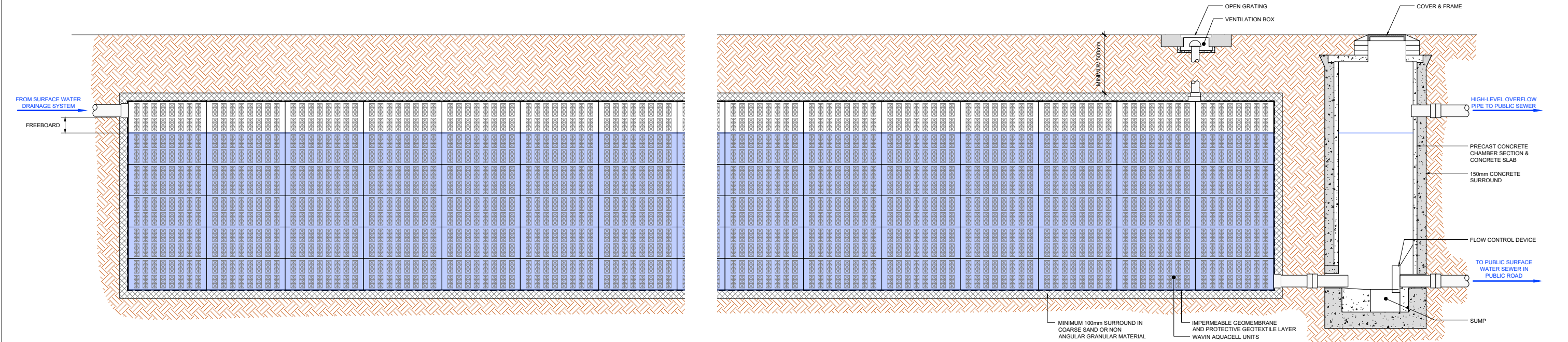
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PL1	ISSUED FOR PRE-PLANNING DISCUSSION	16/08/2023	JPC	JFC	
PL2	ISSUED FOR PRE-PLANNING DISCUSSION	31/08/2023	JPC	JFC	



PLAN ON WAVIN AQUACELL ATTENUATION TANK (ON-LINE SYSTEM)
SCALE 1:25

Drawing Stage: <

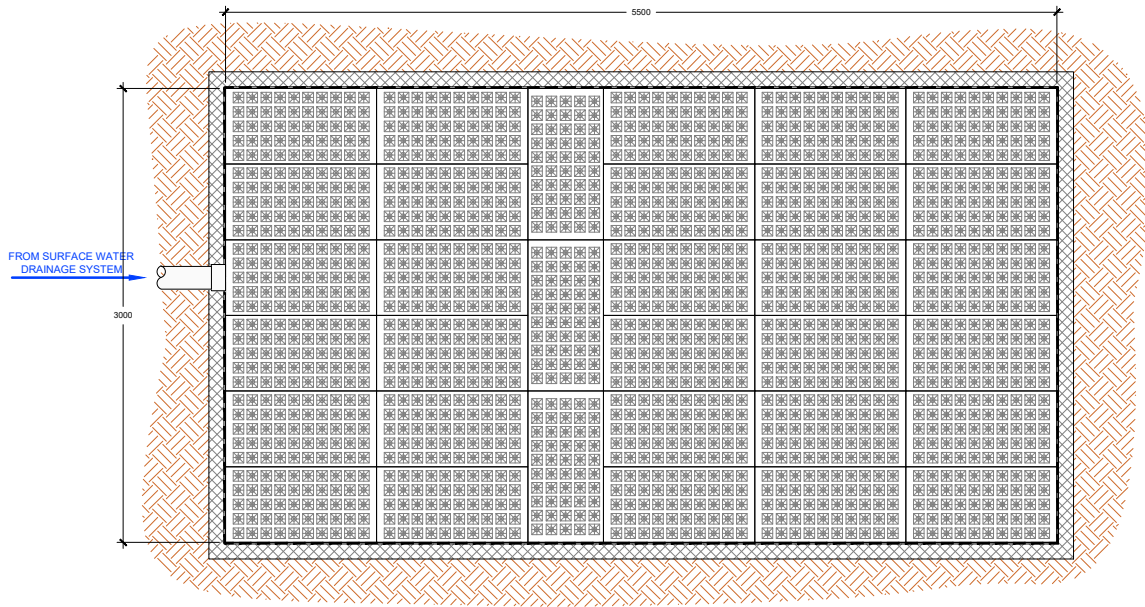
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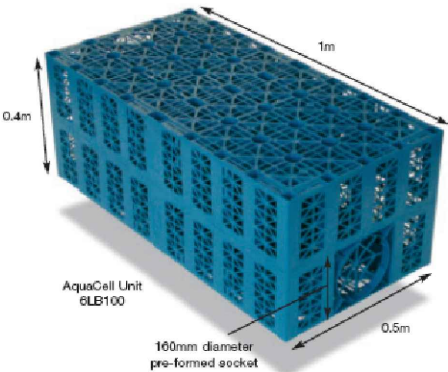
SECTION THROUGH WAVIN AQUACELL ATTENUATION TANK (ON-LINE SYSTEM)
SCALE 1:25

Drawing Stage: PRE-PLANNING	Project Details:		Notes		Drawn by:		Checked by:		Approved by:		Date:		<div><div>CORA</div><div>CONSULTING ENGINEERS</div><div>Behan House, 10 Lower Mount St., Dublin 2. D02 HT71 Tel: +353 (0)1 661 1100 e-mail: info@cora.ie Web: www.cora.ie</div></div>														
	Site Address:	MONAGHAN CO. CO. HQ, ROOSKY, MONAGHAN TOWN			JPC		KOM		JFC		MAR '23																
	Client:	MONAGHAN COUNTY COUNCIL		<div>1. ALL ENGINEERS DRAWINGS TO BE READ IN CONJUNCTION WITH RELEVANT DRAWINGS AND SPECIFICATIONS.</div> <div>2. ALL SETTING OUT TO ARCHITECTS DRAWINGS.</div> <div>3. DO NOT SCALE FROM ENGINEERS DRAWINGS.</div> <div>4. ANY DISCREPANCIES BETWEEN DRAWINGS, SKETCHES, VERBAL INSTRUCTIONS AND SITE CONDITIONS TO BE REFERRED TO THE DESIGN TEAM BEFORE WORK COMMENCES.</div>		Project Name:				Scale:		Project Number:															
	Architect:	HENRY J LYONS ARCHITECTS				CIVIC OFFICES				A.S. @ A1		2223															
	M&E Designer:					Drawing Title:				Project:		Originator:		Zone:		Level:		Type:		Discipline:		Drawing No:		Stage:		Revision:	
	Contractor:					ATTENUATION TANK DETAILS SHEET 2				MCC		CORA		ZZ		ZZ		DR		C		0017				PL2	

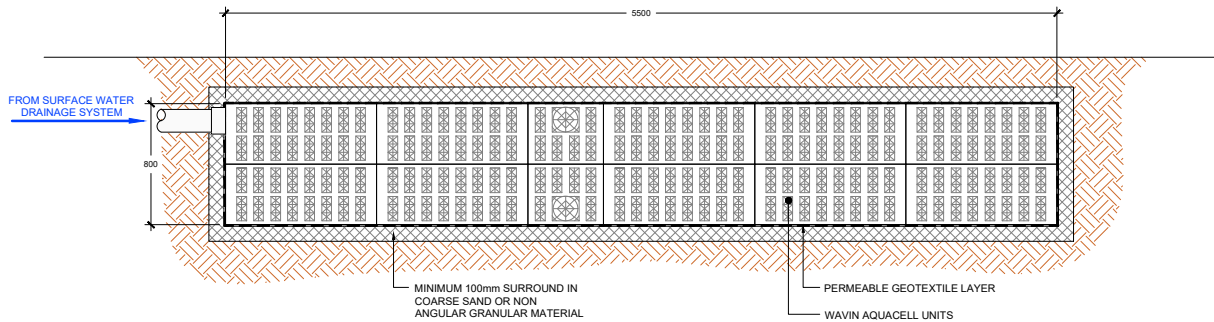
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1 PLAN ON WAVIN AQUACELL SOAKAWAY
SCALE 1:25



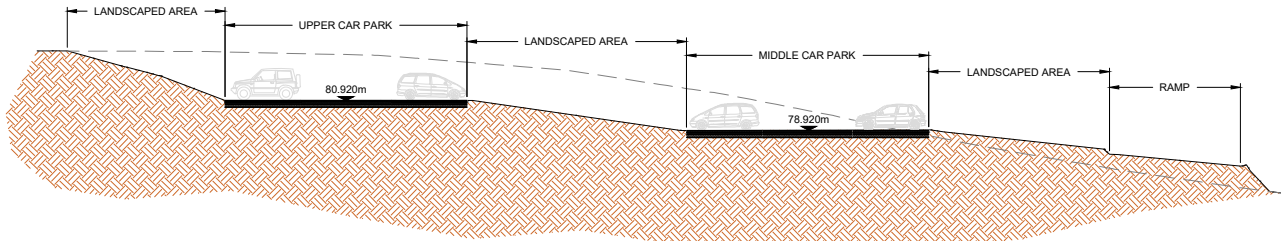
3 WAVIN AQUACELL UNIT
NOT TO SCALE



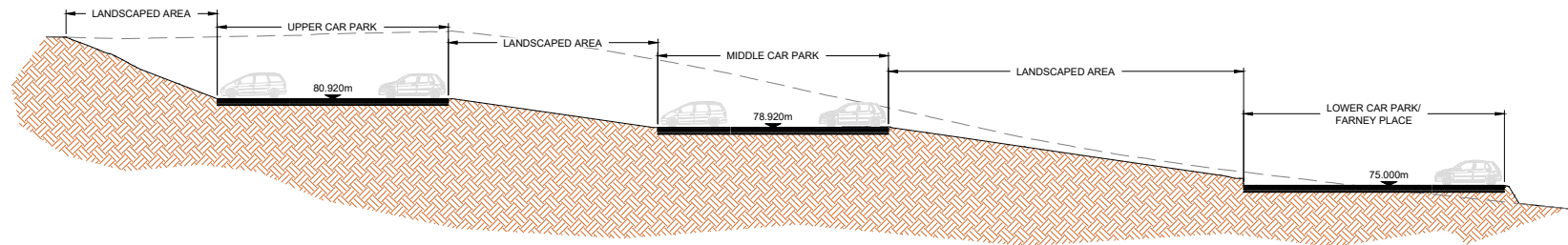
2 SECTION THROUGH WAVIN AQUACELL SOAKAWAY
SCALE 1:25

Drawing Stage:
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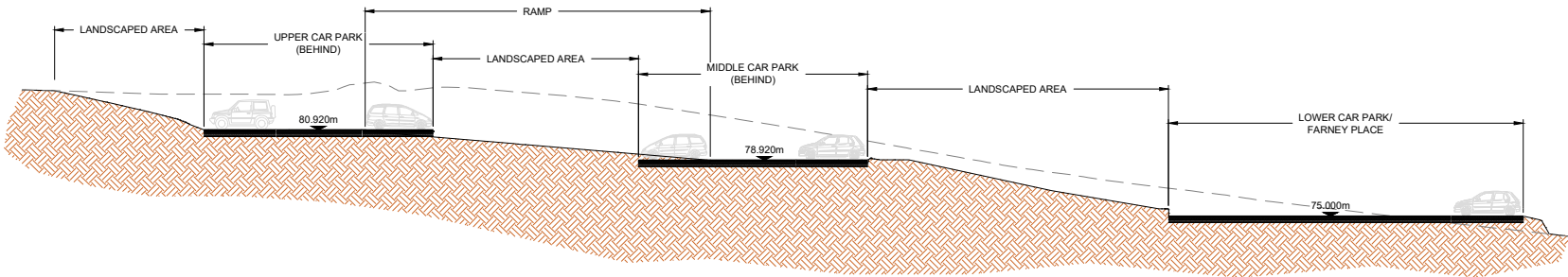
REVISION SCHEDULE					
REV. NO.	REV. DESCRIPTION	REV. DATE	DRAWN	CHECKED	
PL1	ISSUED FOR PRE-PLANNING DISCUSSION	16/08/2023	JPC	JFC	
PL2	ISSUED FOR PRE-PLANNING DISCUSSION	31/08/2023	JPC	JFC	



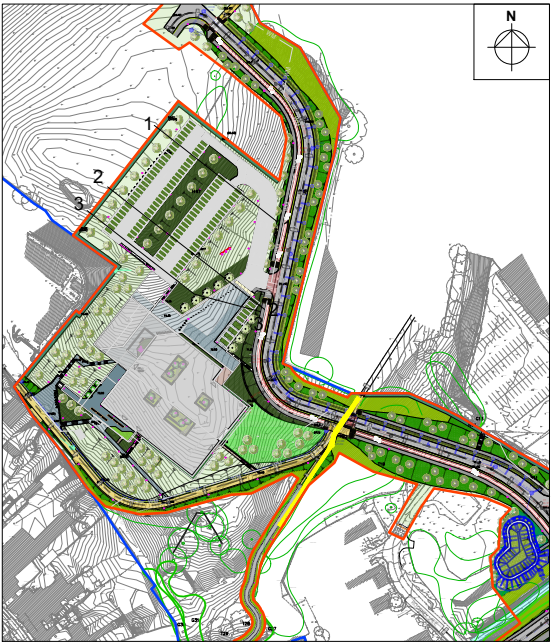
1 SITE SECTION 1-1
SCALE 1:250



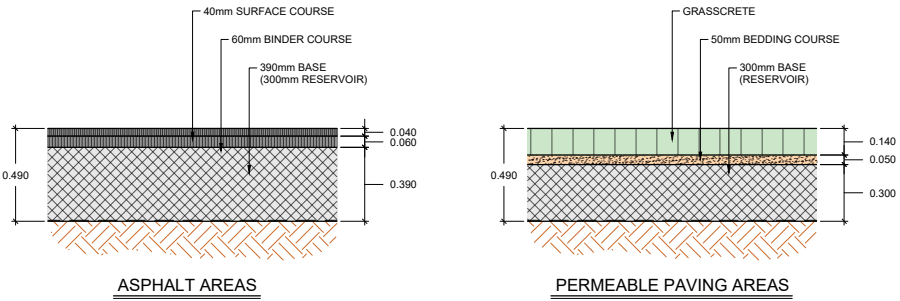
2 SITE SECTION 2-2
SCALE 1:250



3 SITE SECTION 3-3
SCALE 1:250



5 KEY PLAN
SCALE 1:2000



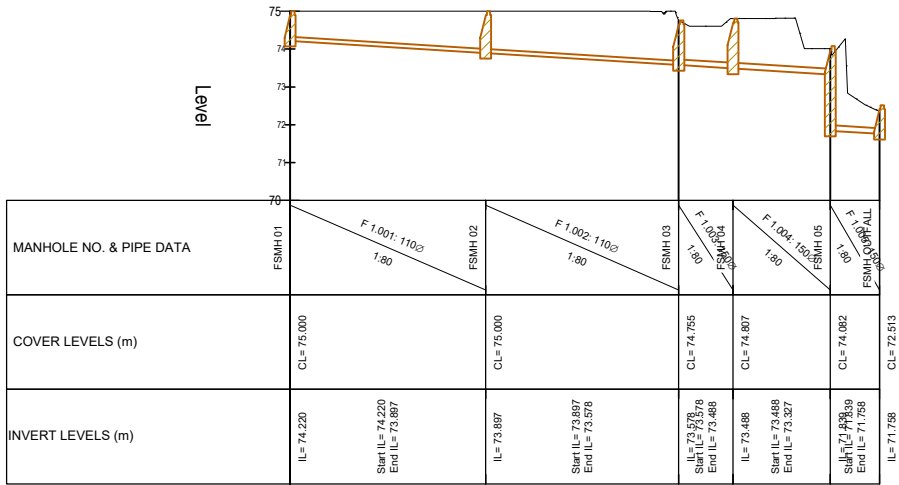
ASPHALT AREAS
PERMEABLE PAVING AREAS
ASSUMED 300mm OF ATTENUATION STORAGE
ASPHALT AREAS IN CIRCULATION AREAS
PERMEABLE PAVING AREAS IN SPACES

4 TYPICAL SECTION THRU' CAR PARK CIRCULATION/PARKING SPACES
SCALE 1:20

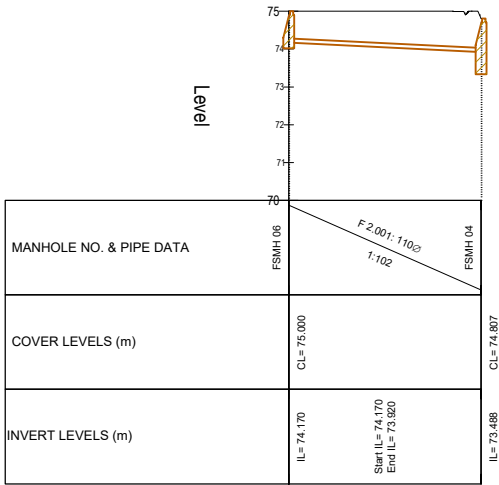
Drawing Stage: PRE-PLANNING	Project Details:		Notes				Drawn by:	Checked by:	Approved by:	Date:		<div><div><div>CORA</div><div>CONSULTING ENGINEERS</div></div><div>Behan House, 10 Lower Mount Street, Dublin 2. D02 HT71 Tel: +353 1 661 1100 e-mail: info@cora.ie Web: www.cora.ie</div></div>									
	Site Address:	MONAGHAN CO. CO. HQ, ROOSKY, MONAGHAN TOWN					JPC	KO'M	JFC	FEB '23											
	Client:	MONAGHAN COUNTY COUNCIL		Project Name:			Scale:	Project Number:													
	Architect:	HENRY J LYONS ARCHITECTS		CIVIC OFFICES			A.S. @ A1	2223													
	M&E Designer:			Drawing Title:			Project:	Originator:	Zone:	Level:	Type:							Discipline:	Drawing No:	Stage:	Revision:
	Contractor:			SITE SECTIONS - SHEET 1			MCC	CORA	ZZ	ZZ	DR							C	1001		PL2

REVISION SCHEDULE				
REV. NO.	REV. DESCRIPTION	REV. DATE	DRAWN	CHECKED
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FSMH 01 - FSMH OUTFALL - LONGSECTION
SCALE: H 1:500 / V 1:100
DATUM: 70.000



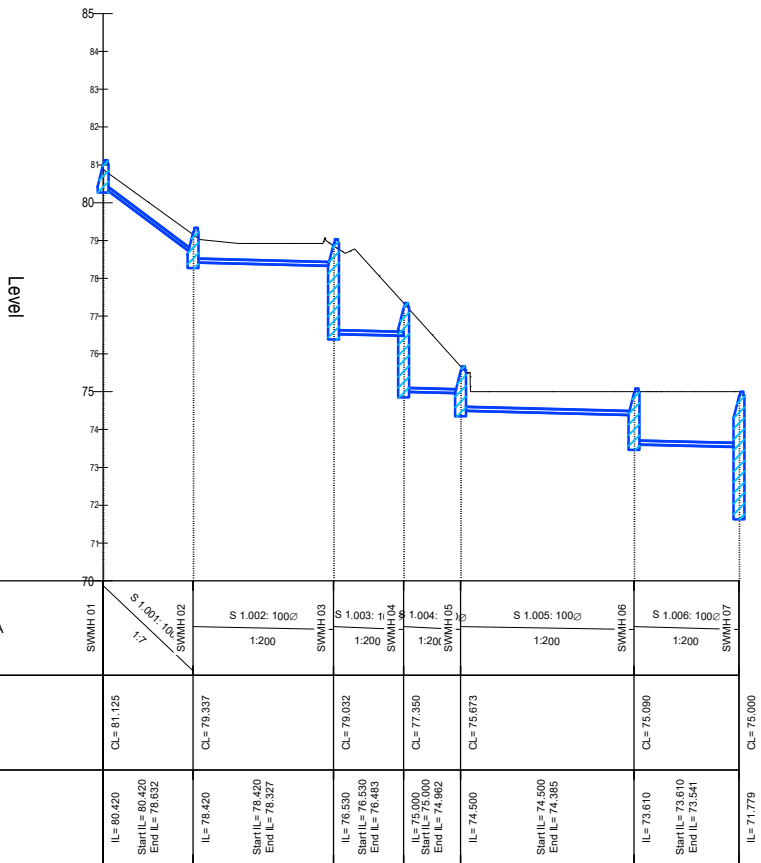
FSMH 06 - FSMH 04 - LONGSECTION
SCALE: H 1:500 / V 1:100
DATUM: 70.000



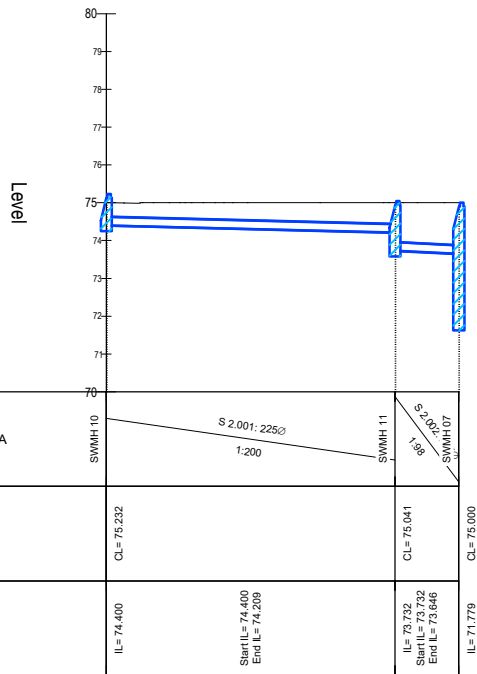
Drawing Stage:
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REVISION SCHEDULE				
REV. NO.	REV. DESCRIPTION	REV. DATE	DRAWN	CHECKED
PL1	ISSUED FOR PRE-PLANNING DISCUSSION	16/08/2023	JPC	JFC
PL2	ISSUED FOR PRE-PLANNING DISCUSSION	31/08/2023	JPC	JFC

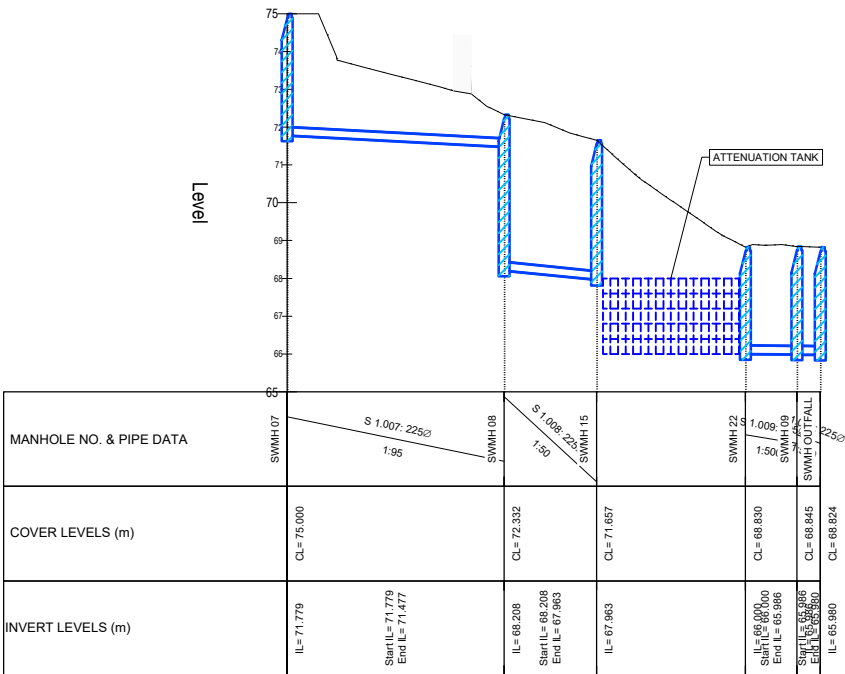
ALIGNMENT - LS - SWMH 01 - SWMH 09 - LONGSECTION
SCALE: H 1:500 / V 1:100
DATUM: 70.000



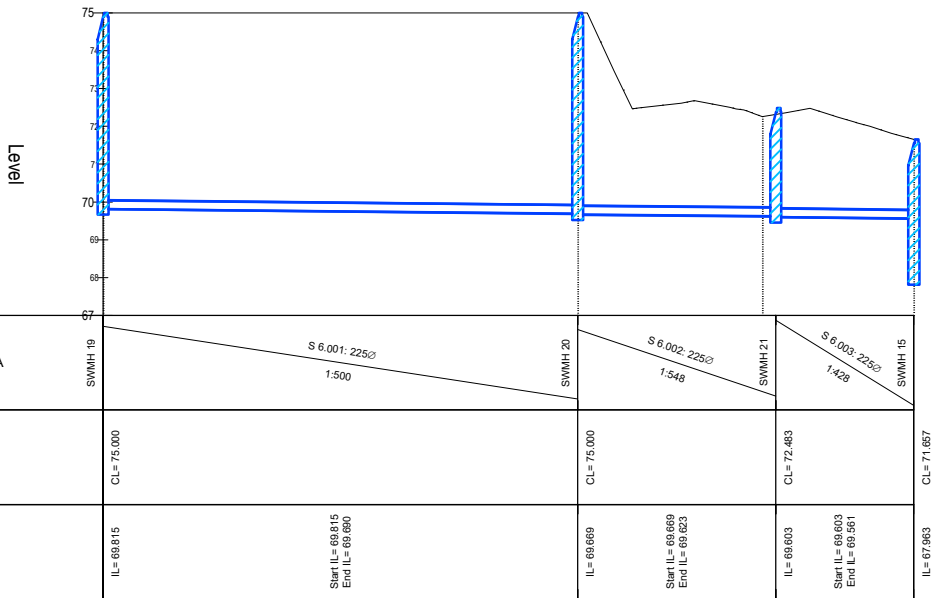
SWMH 10 - SWMH 07 - LONGSECTION
SCALE: H 1:500 / V 1:100
DATUM: 70.000



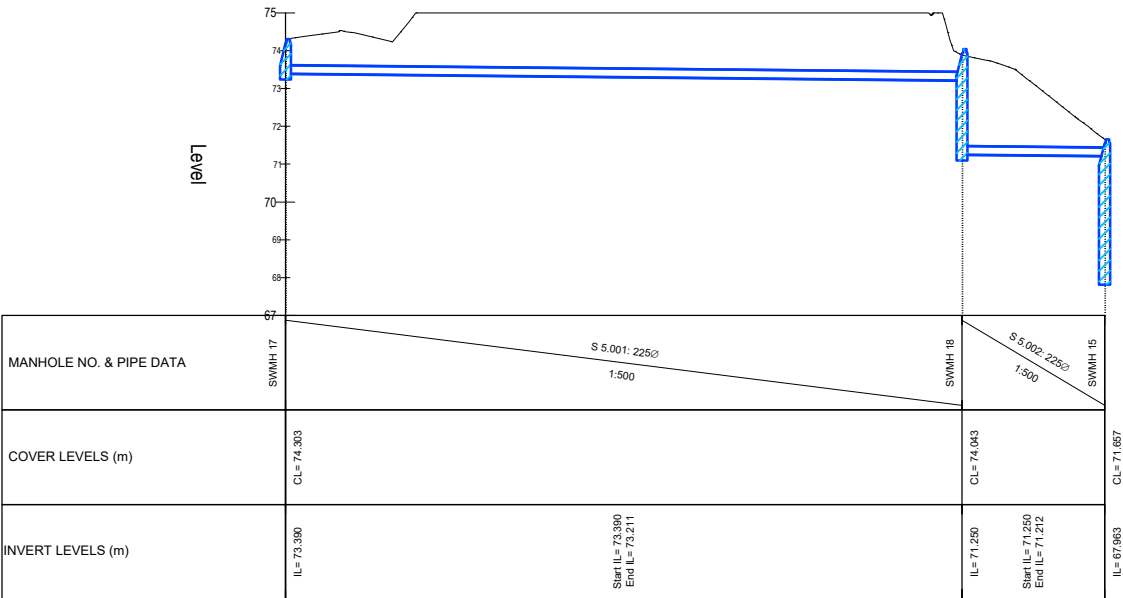
SWMH 07 - SWMH XX - LONGSECTION
SCALE: H 1:500 / V 1:100
DATUM: 65.000



SWMH 19 - SWMH 15 - LONGSECTION
SCALE: H 1:500 / V 1:100
DATUM: 67.000

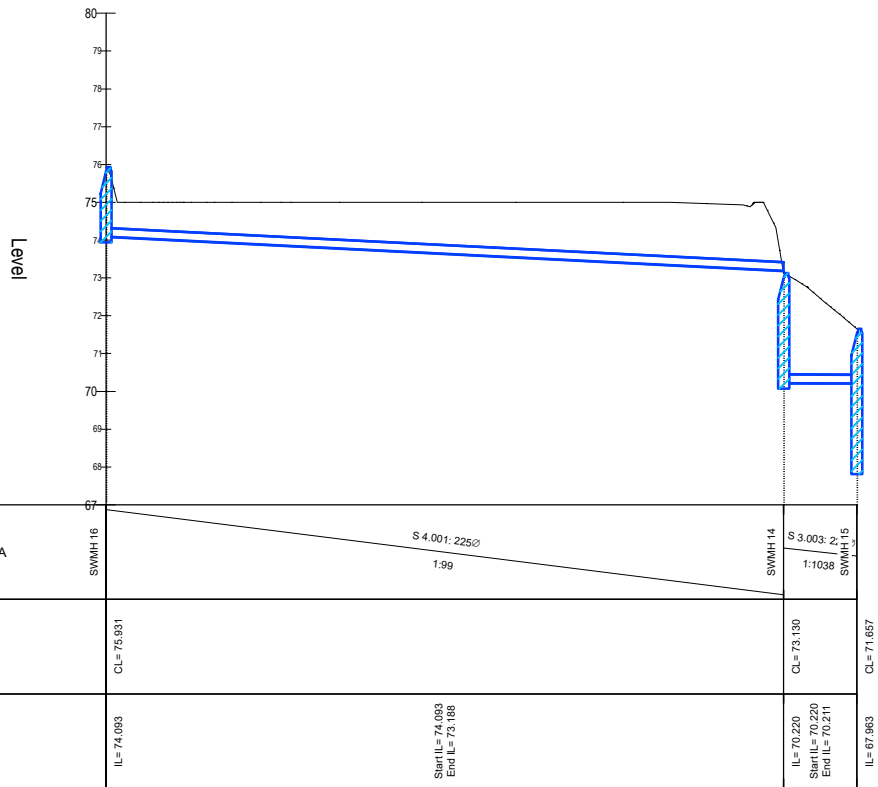


SWMH 17 - SWMH 15 - LONGSECTION
SCALE: H 1:500 / V 1:100
DATUM: 67.000

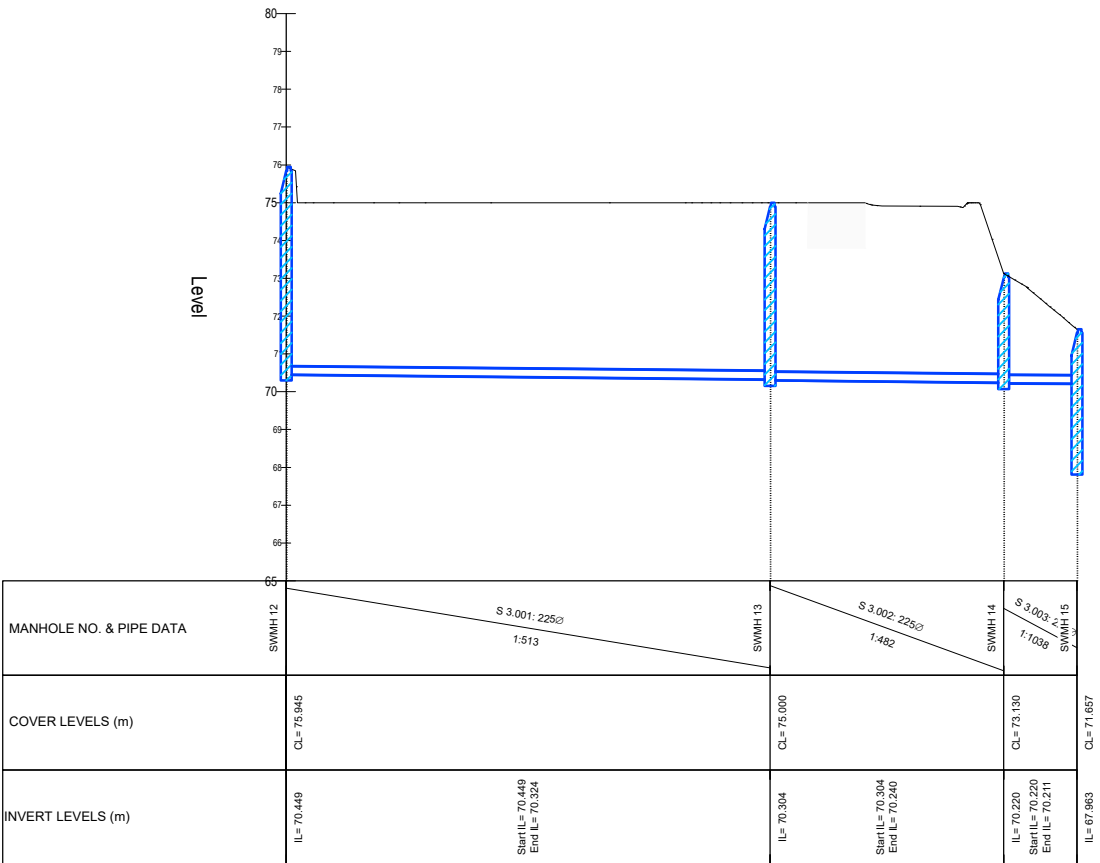


Drawing Stage: PRE-PLANNING	Project Details:		Notes			Drawn by:	Checked by:	Approved by:	Date:	<div><div>CORA</div><div>CONSULTING ENGINEERS</div><div>Behan House, 10 Lower Mount Street, Dublin 2. D02 HT71 Tel: +353 1 661 1100 e-mail: info@cora.ie Web: www.cora.ie</div></div>					
	Site Address:	MONAGHAN CO. CO. HQ, ROOSKY, MONAGHAN TOWN				JPC	KO'M	JFC	FEB '23						
	Client:	MONAGHAN COUNTY COUNCIL				Project Name:		Scale:	Project Number:						
	Architect:	HENRY J LYONS ARCHITECTS				CIVIC OFFICES		1:500 @ A1	2223						
	M&E Designer:					Drawing Title:		Project:	Originator:	Zone:	Level:	Type:	Discipline:	Drawing No:	Stage:
Contractor:						SURFACE WATER LONGSECTIONS SHEET 1		MCC	CORA	ZZ	ZZ	DR	C	2401	PL2

SWMH 16 - SWMH 15 - LONGSECTION
SCALE: H 1:500 / V 1:100
DATUM: 67.000



SWMH 12 - SWMH 15 - LONGSECTION
SCALE: H 1:500 / V 1:100
DATUM: 65.000



REVISION SCHEDULE				
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Drawing Stage: PRE-PLANNING	Project Details:		Notes				Drawn by:	Checked by:	Approved by:	Date:		<div><div><div>CORA</div><div>CONSULTING ENGINEERS</div></div><div>Behan House, 10 Lower Mount Street, Dublin 2. D02 HT71 Tel: +353 1 661 1100 e-mail: info@cora.ie Web: www.cora.ie</div></div>												
	Site Address:	MONAGHAN CO. CO. HQ, ROOSKY, MONAGHAN TOWN					JPC	KO'M	JFC	FEB '23														
	Client:	MONAGHAN COUNTY COUNCIL					Project Name:		Scale:	Project Number:														
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	M&E Designer:						Drawing Title:		Project:	Originator:	Zone:							Level:	Type:	Discipline:	Drawing No:	Stage:	Revision:	
	Contractor:						SURFACE WATER LONGSECTIONS SHEET 2		MCC	CORA	ZZ							ZZ	DR	C	2402		PL2	