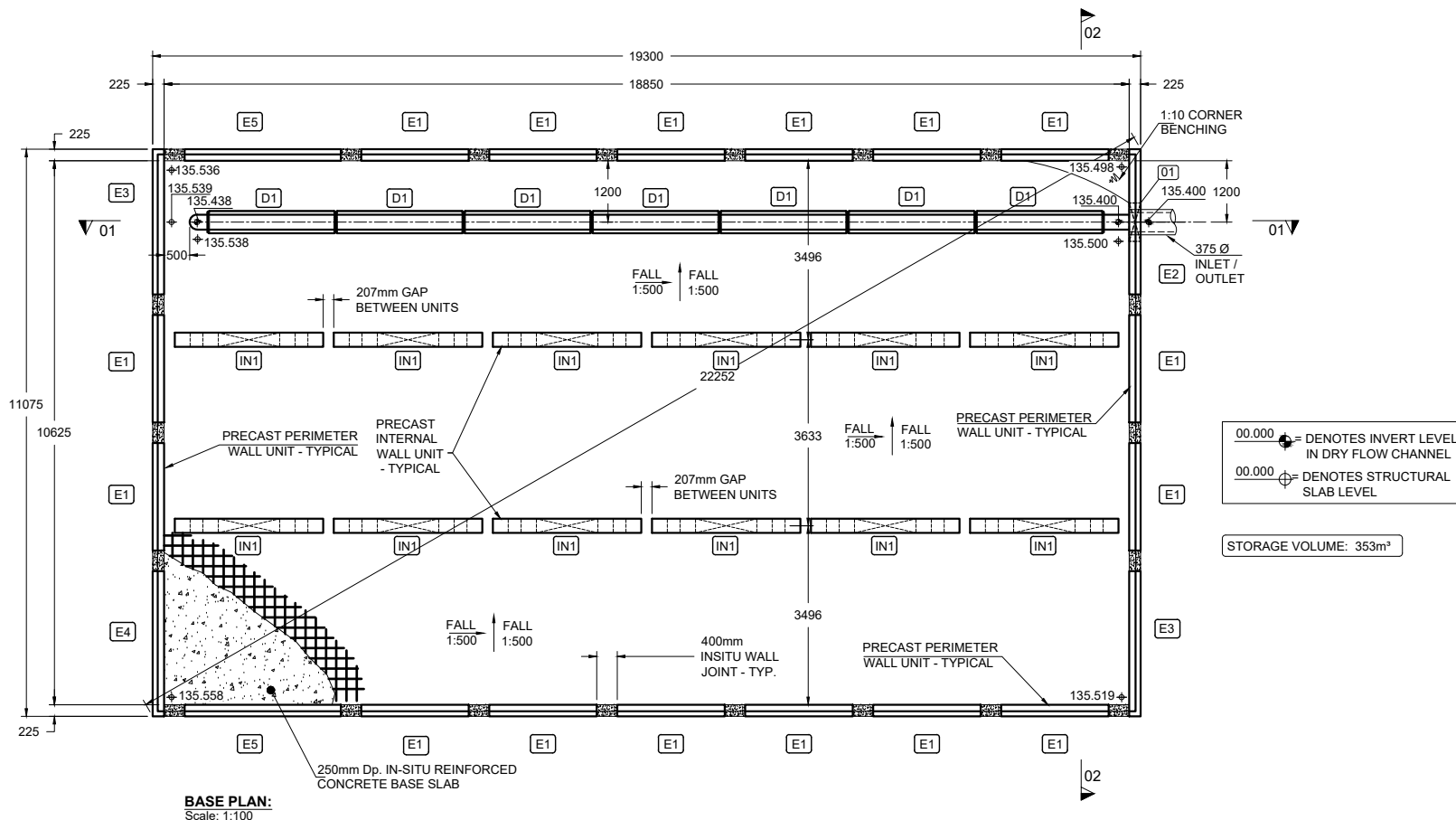


ALL ADAPTABLE SEWER WORKS AND MATERIAL TO BE IN ACCORDANCE WITH "CODE FOR ADOPTION", THE RELEVANT BRITISH/EUROPEAN AND YORKSHIRE WATER'S STANDARDS/REQUIREMENTS/ADDENDUM TO THE MECHANICAL AND ELECTRICAL SPECIFICATION AND KITEMARKED.

ISSUED FOR
APPROVAL



PRECAST CONCRETE SPECIFICATION	
CONCRETE GRADE:	C40/50
EXPOSURE CLASS:	XD1 / XC4
DESIGN CHEMICAL CLASS:	DC-1
MIN CEMENT CONTENT:	360 kg/m³
CEMENT TYPE:	CEM IIB-S
GGBS CONTENT:	25%
MAX WATER / CEMENT RATIO:	0.45
AGGREGATE TYPE:	LIMESTONE
MAX AGGREGATE SIZE:	14mm
SLUMP CLASS:	N/A

INSITU CONCRETE SPECIFICATION	
CONCRETE GRADE:	C32/40
EXPOSURE CLASS:	XD1 / XC4
DESIGN CHEMICAL CLASS:	DC-1
MIN CEMENT CONTENT:	325 kg/m³
MAX CEMENT CONTENT:	400 kg/m³
CEMENT TYPE:	CEM IIIA + SR
GGBS CONTENT:	50%
MAX WATER / CEMENT RATIO:	0.55
AGGREGATE TYPE:	LIMESTONE
MAX AGGREGATE SIZE:	20mm
SLUMP CLASS:	SEE NOTE 1

NOTE 1: PUMP MIX 120mm TARGET SLUMP (TOLERANCE -10mm, +40mm)	
NOMINAL COVER	
PRECAST:	40mm
INSITU:	40mm

SURFACE FINISHES	
ROOF SCREED:	WOOD FLOAT
BASE SLAB:	STEEL TROWEL
INTERNAL SURFACE:	FAIR WORKED
EXTERNAL SURFACE:	FAIR

KEY TO PRECAST WALL TYPES					
TYPE	DESCRIPTION	QUANTITY	HEIGHT	WIDTH	WEIGHT
E1	STANDARD EXTERNAL WALL	16	2.300m	2.10m	2.64t
E2	CUSTOM EXTERNAL WALL WITH OPENING	1	2.300m	2.835m	3.30t
E3	CUSTOM EXTERNAL WALL	2	2.300m	2.835m	3.56t
E4	CUSTOM EXTERNAL WALL	1	2.300m	2.835m	3.56t
E5	CUSTOM EXTERNAL WALL	2	2.300m	3.05m	3.83t
IN1	STANDARD INTERNAL WALL	12	1.79m	2.90m	1.60t
D1	STANDARD PRECAST DRY FLOW CHANNEL (2.50m LONG)	7	0.100m	0.30m	0.43t

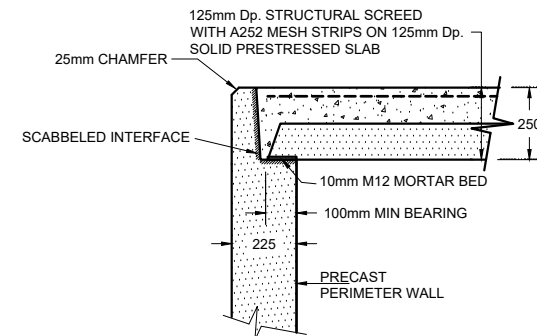
DESIGN ASSUMPTIONS	
DESIGN LIFE:	50 YEARS
DESIGN EXPOSURE CLASSIFICATION:	XD1 / XC4
DESIGN CHEMICAL CLASS:	DC-1
TIGHTNESS CLASS:	CLASS 1
IMPOSED LOAD ON COVER SLAB:	MORE ONEROUS OF 10 kN/m² UDL OR 40t HGV AXLE LOADING
IMPOSED SURCHARGE ON WALLS:	10 kN/m²
MAXIMUM COVER LEVEL:	+139.000m (1.392m OVERBURDEN)
MINIMUM COVER LEVEL:	+138.050m (0.502m OVERBURDEN)
ASSUMED INTERNAL WATER LEVEL:	TOP OF TANK LEVEL
ASSUMED GROUND WATER LEVEL (FLOATATION):	SURFACE LEVEL
ASSUMED GROUND WATER LEVEL (ULS):	SURFACE LEVEL
ASSUMED GROUND WATER LEVEL (SLS):	TOP OF TANK LEVEL
ASSUMED ALLOWABLE BEARING PRESSURE	>150 kN/m² (BEARING ON SANDSTONE BEDROCK)

ESTIMATED INSITU CONCRETE VOLUMES	
INSITU CONCRETE BLINDING	21.0m³
BASE SLAB	54.0m³
ROOF SCREED	28.0m³
INSITU WALL JOINTS	4.0m³
BENCHING	0.5m³
ESTIMATED VOLUMES INCLUDE A 5% ALLOWANCE FOR SITE DEVIATION	

KEY TO WALL OPENING TYPES			
	QUANTITY	DESCRIPTION	INVERT
01	1	750mm x 650mm OPENING FOR 375 Ø CONCRETE PIPE	135.400

ESTIMATED MORTAR REQUIRED	
M12 MORTAR	0.4m³
ESTIMATED VOLUMES INCLUDE A 5% ALLOWANCE FOR SITE DEVIATION	

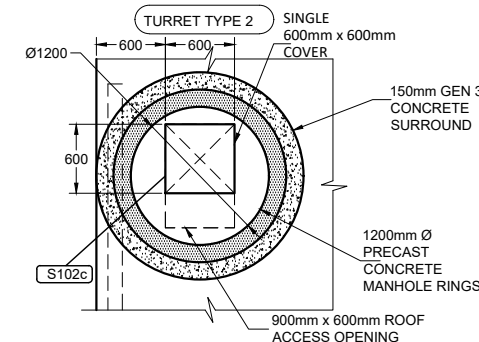
ALL ADOPTABLE SEWER WORKS AND MATERIAL TO BE IN ACCORDANCE WITH "CODE FOR ADOPTION", THE RELEVANT BRITISH/EUROPEAN AND YORKSHIRE WATER'S STANDARDS/REQUIREMENTS/ADDENDUM TO THE MECHANICAL AND ELECTRICAL SPECIFICATION AND KITEMARKED.



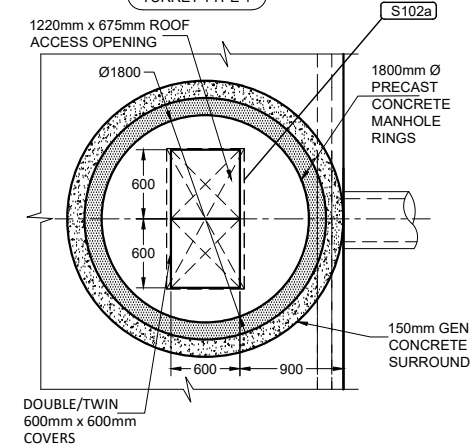
PERIMETER WALL - TOP OF WALL DETAIL:
SCALE: 1:20

NOTE:
CHAMBER RINGS TO THE CARLOW TANK
MUST NOT OVERHANG THE CARLOW TANK
ROOF SLAB

FOR TURRET DETAILS SEE
DRAWING STS2974-006)



TURRET TYPE 1



TYPICAL ROOF TURRET TYPE 1 & 2 PLAN:
Scale: 1:50

KEY TO ROOF SLAB TYPES						
UNIT	DESCRIPTION	WIDTH	LENGTH	DEPTH	WEIGHT	QUANTITY
R1	SOLID PRESTRESSED SLAB	2.400m	3.573m	125mm	2.52t	18
R2	NARROW SOLID PRESTRESSED SLAB	2.215m	3.573m	125mm	2.32t	3
R3	CUSTOM SLAB WITH OPENING	2.400m	3.573m	150mm	2.91t	1
R4	CUSTOM SLAB WITH OPENING	2.400m	3.573m	150mm	3.01t	2

NOTE: STANDARD PRESTRESSED SLAB TO BE REINFORCED USING
 18No. 9.3mm Ø + 5No 12.5mm Ø Y1860S7 STRANDS PER 2.4m WIDE PLANK

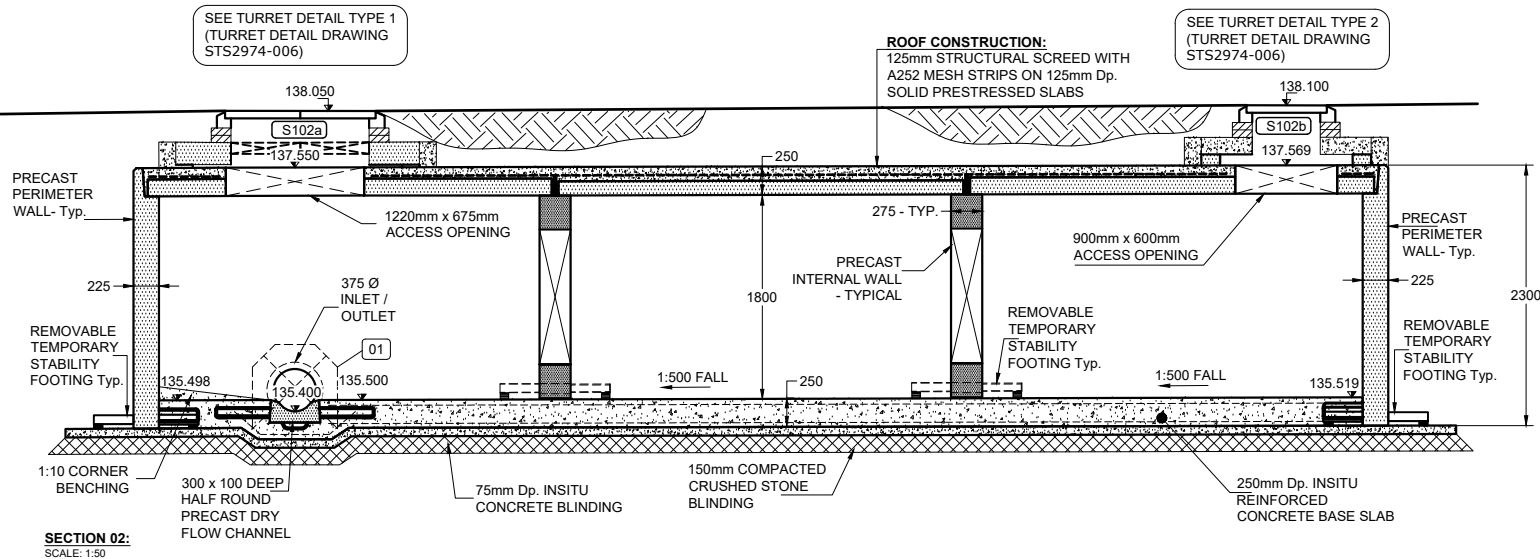
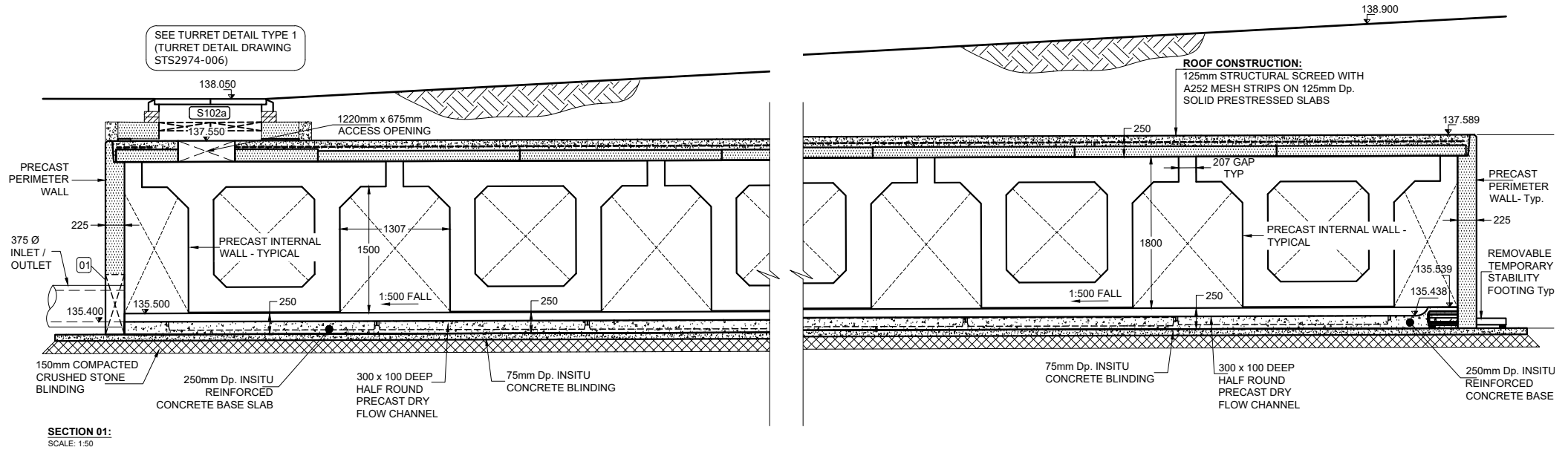
KEY TO ROOF OPENING TYPES		
	QUANTITY	DESCRIPTION
02	1	1220mm x 675mm ROOF OPENING
03	2	900mm x 600mm ROOF OPENING

ISSUED FOR
APPROVAL

DRAWING TITLE: DUCHY HOMES,
MOUNT VERNON, WOSBOROUGH
1.8m DEEP ATTENUATION TANK
SECTIONS SHEET 1

Drawn By:	EW	Rev.	Date.	Comments.
Chkd By:	PL	0	21-05-21	ISSUED FOR APPROVAL
Date:	21-05-21	A	23-06-21	TANK LENGTH INCREASED BY 950mm, STORAGE VOLUME INCREASED TO 353m ³
Drg No.:	STS2974-003			

ALL ADOPTABLE SEWER WORKS AND MATERIAL TO BE IN ACCORDANCE WITH "CODE FOR ADOPTION", THE RELEVANT BRITISH/EUROPEAN AND YORKSHIRE WATER'S STANDARDS/REQUIREMENTS/ADDENDUM TO THE MECHANICAL AND ELECTRICAL SPECIFICATION AND KITEMARKED.

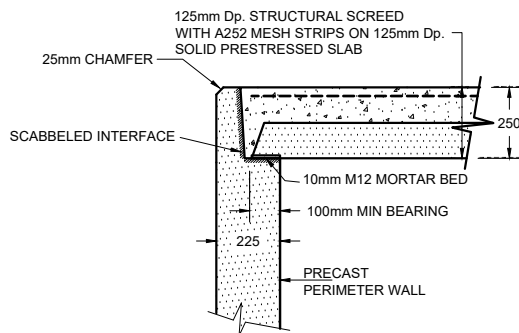


ISSUED FOR
APPROVAL

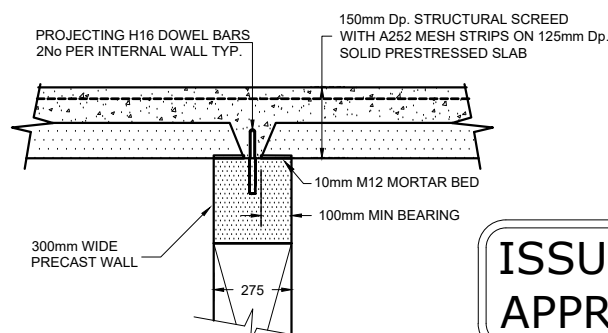
DRAWING TITLE: DUCHY HOMES,
MOUNT VERNON, WOSBOROUGH
1.8m DEEP ATTENUATION TANK
DETAILS SECTIONS

Drawn By: EW	Rev.	Date.	Comments.
Chkd By: PL	0	21-05-21	ISSUED FOR APPROVAL
Date: 21-05-21	A	23-06-21	TANK LENGTH INCREASED BY 950mm, STORAGE VOLUME INCREASED TO 353m ³
Drg No.: STS2974-004			

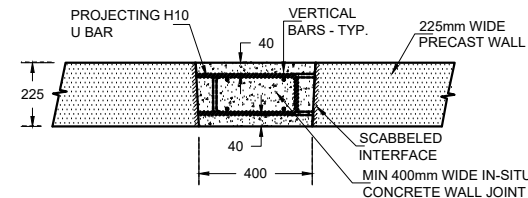
ALL ADOPTABLE SEWER WORKS AND MATERIAL TO BE IN ACCORDANCE WITH "CODE FOR ADOPTION", THE RELEVANT BRITISH/EUROPEAN AND YORKSHIRE WATER'S STANDARDS/REQUIREMENTS/ADDENDUM TO THE MECHANICAL AND ELECTRICAL SPECIFICATION AND KITEMARKED.



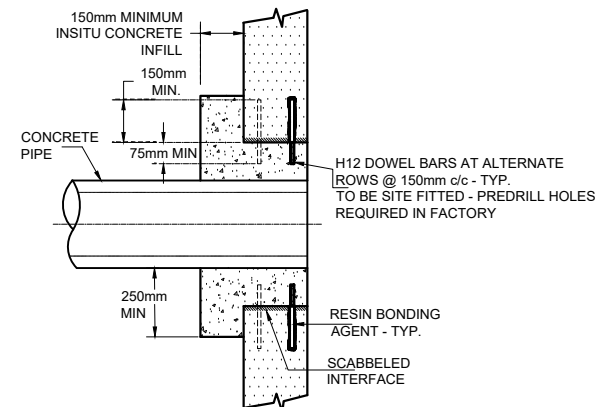
PERIMETER WALL - TOP OF WALL DETAIL:
SCALE: 1:20



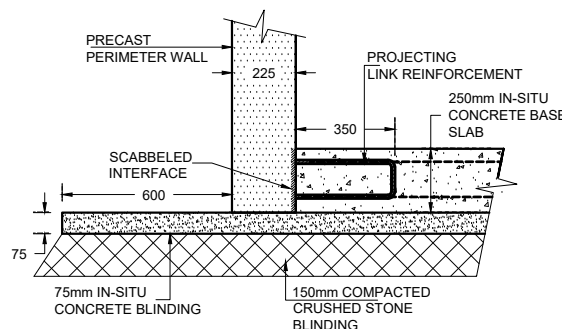
INTERNAL WALL - TOP OF WALL DETAIL:
SCALE: 1:20



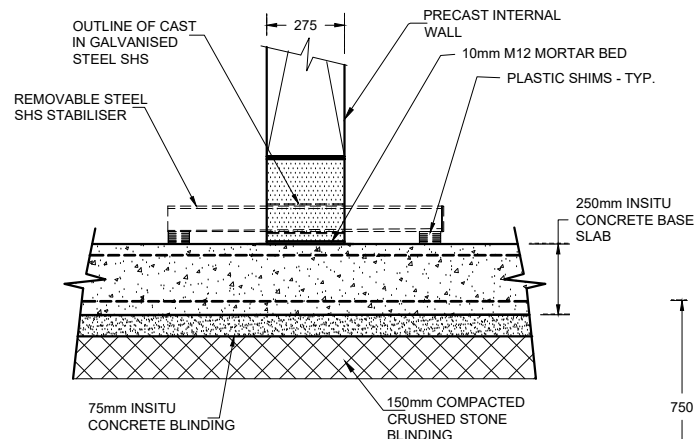
PLAN VIEW - TYPICAL WALL JOINT DETAIL:
SCALE: 1:20



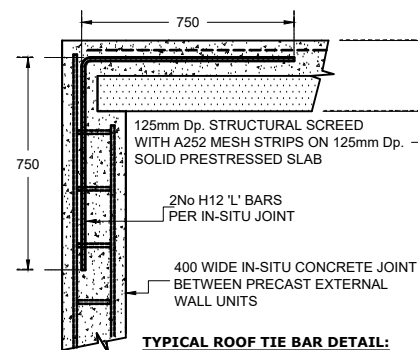
PIPE CONNECTION SECTION
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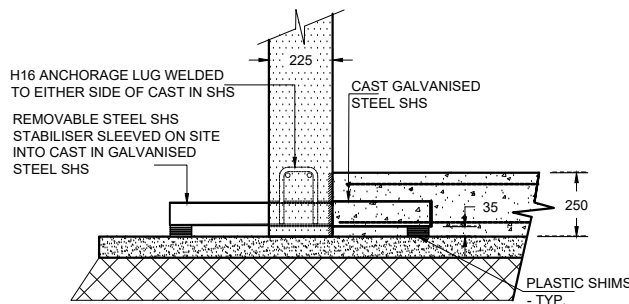
PERIMETER WALL DETAIL:
SCALE: 1:20



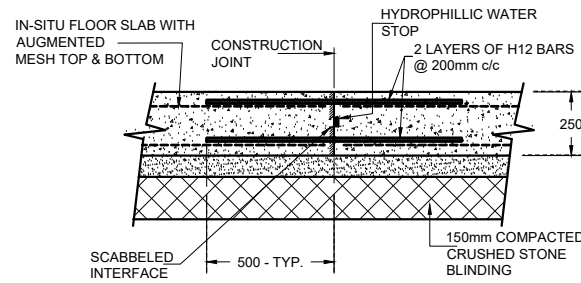
INTERNAL WALL DETAIL:
SCALE: 1:20



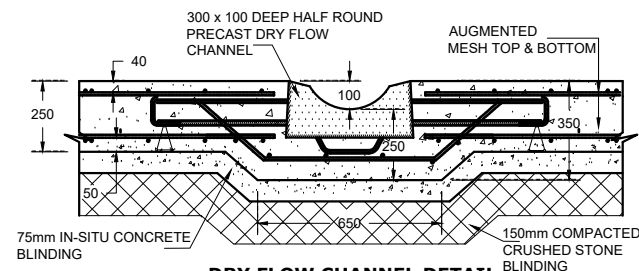
TYPICAL ROOF TIE BAR DETAIL:
SCALE: 1:20



PERIMETER WALL - TEMPORARY STABILITY FOOTING DETAIL:
SCALE: 1:20



CONSTRUCTION JOINT DETAIL:
(AS REQUIRED)
SCALE: 1:20



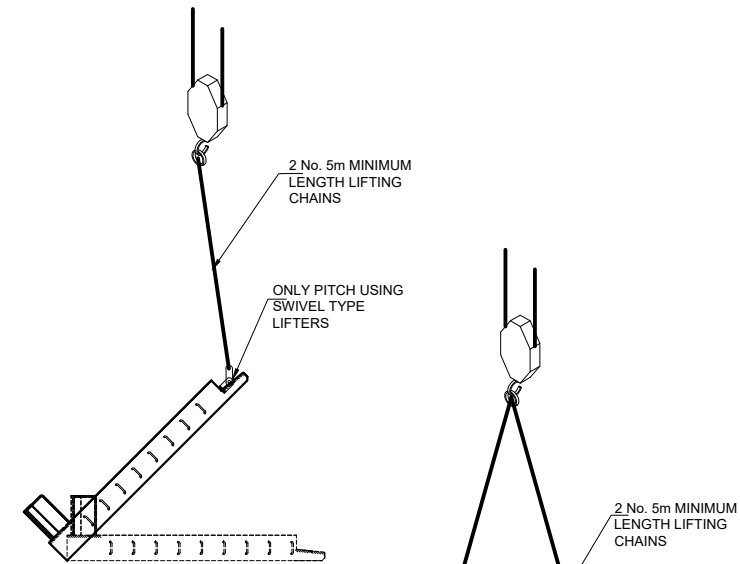
DRY FLOW CHANNEL DETAIL:
SCALE: 1:20

ISSUED FOR
APPROVAL

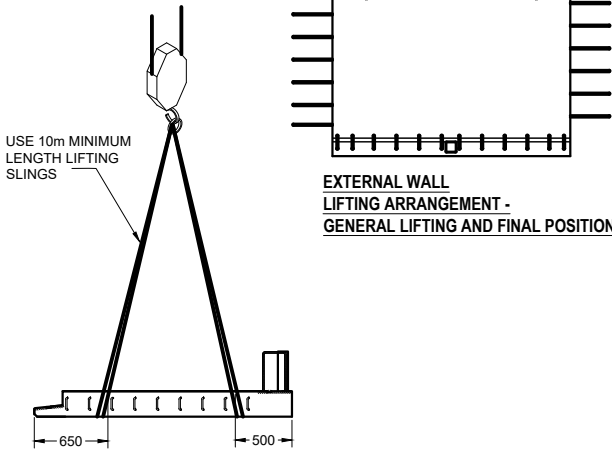
DRAWING TITLE: DUCHY HOMES,
MOUNT VERNON, WOSBOROUGH
1.8m DEEP ATTENUATION TANK
LIFTING DETAILS

Drawn By:	EW	Rev.	Date.	Comments.
Chkd By:	PL	0	21-05-21	ISSUED FOR APPROVAL
Date:	21-05-21	A	23-06-21	TANK LENGTH INCREASED BY 950mm, STORAGE VOLUME INCREASED TO 353m³
Drg No.:	STS2974-005			

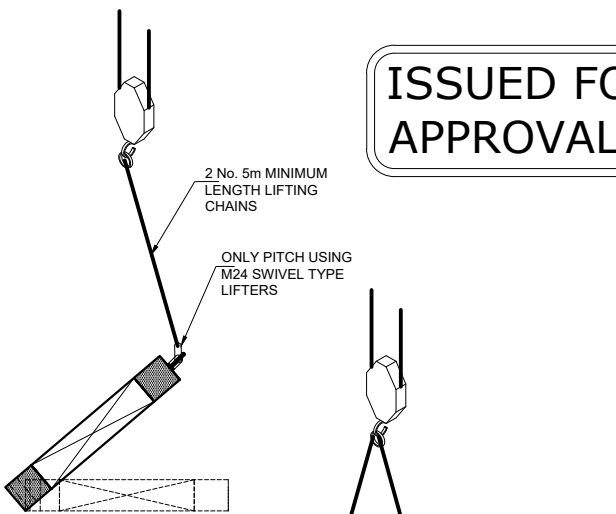
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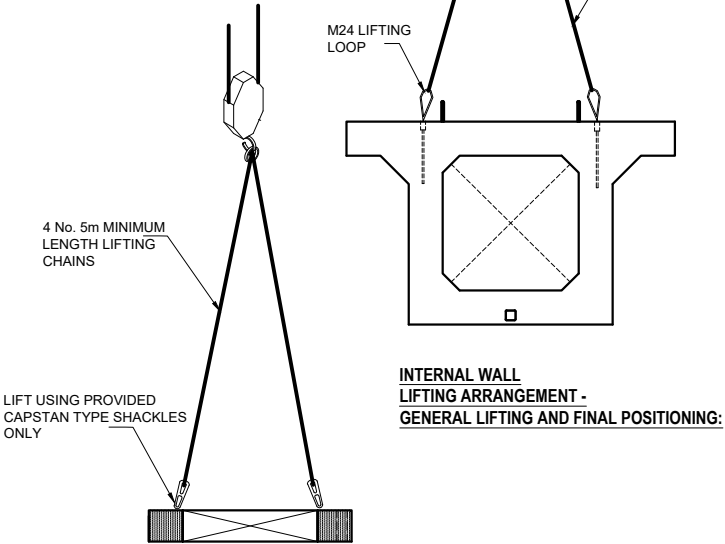
EXTERNAL WALL LIFTING ARRANGEMENT - PITCHING UNIT:



EXTERNAL WALL LIFTING ARRANGEMENT - HORIZONTAL LIFTING:

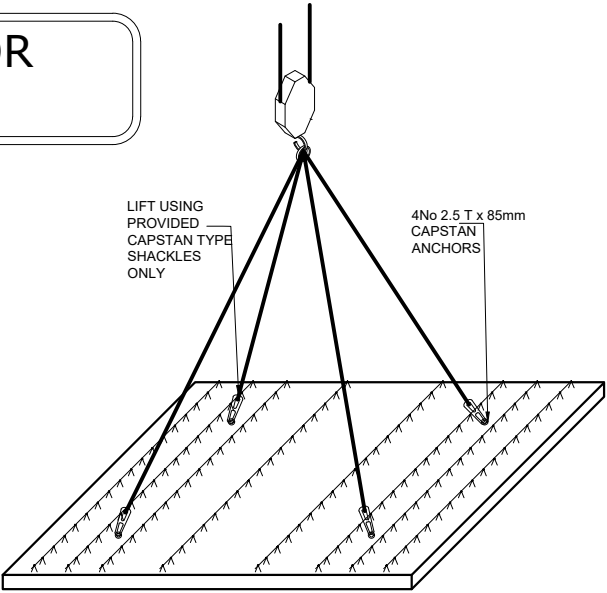


INTERNAL WALL LIFTING ARRANGEMENT - PITCHING UNIT:

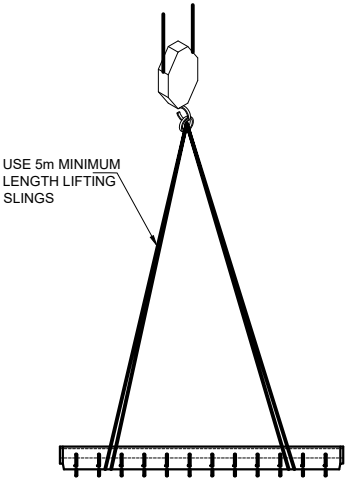


INTERNAL WALL LIFTING ARRANGEMENT - HORIZONTAL LIFTING:

ISSUED FOR APPROVAL



PRECAST ROOF SLAB LIFTING ARRANGEMENT - GENERAL LIFTING AND FINAL POSITIONING:



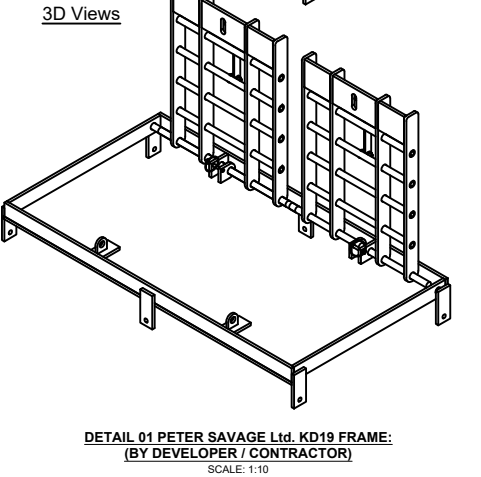
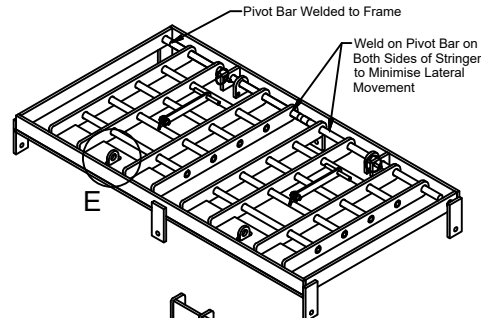
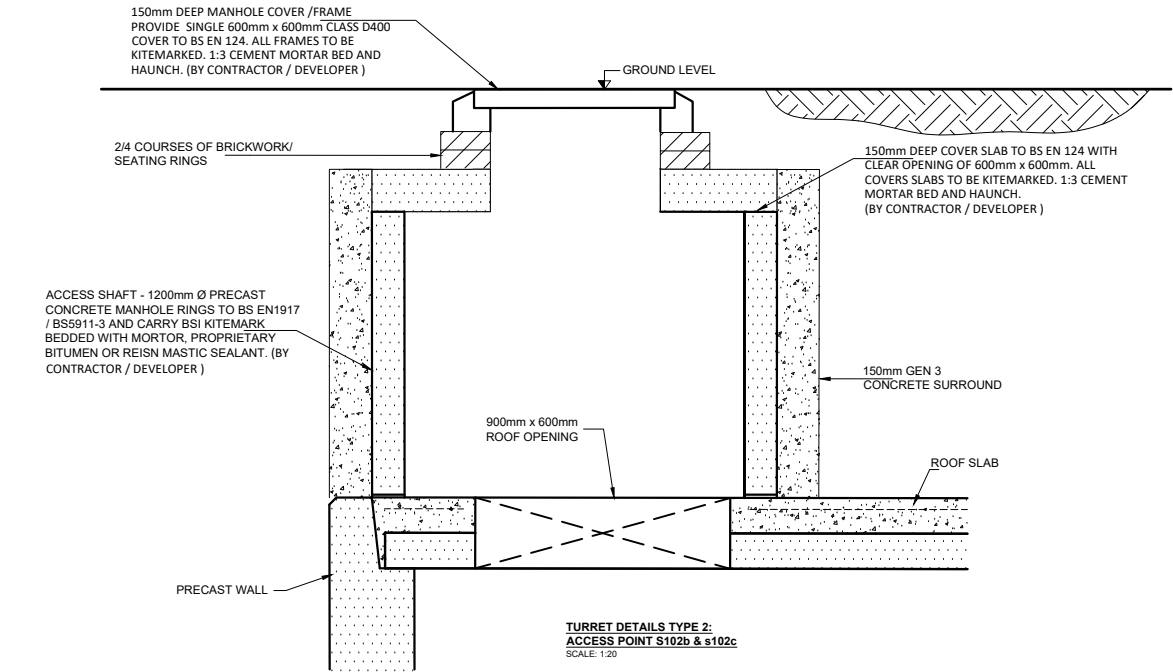
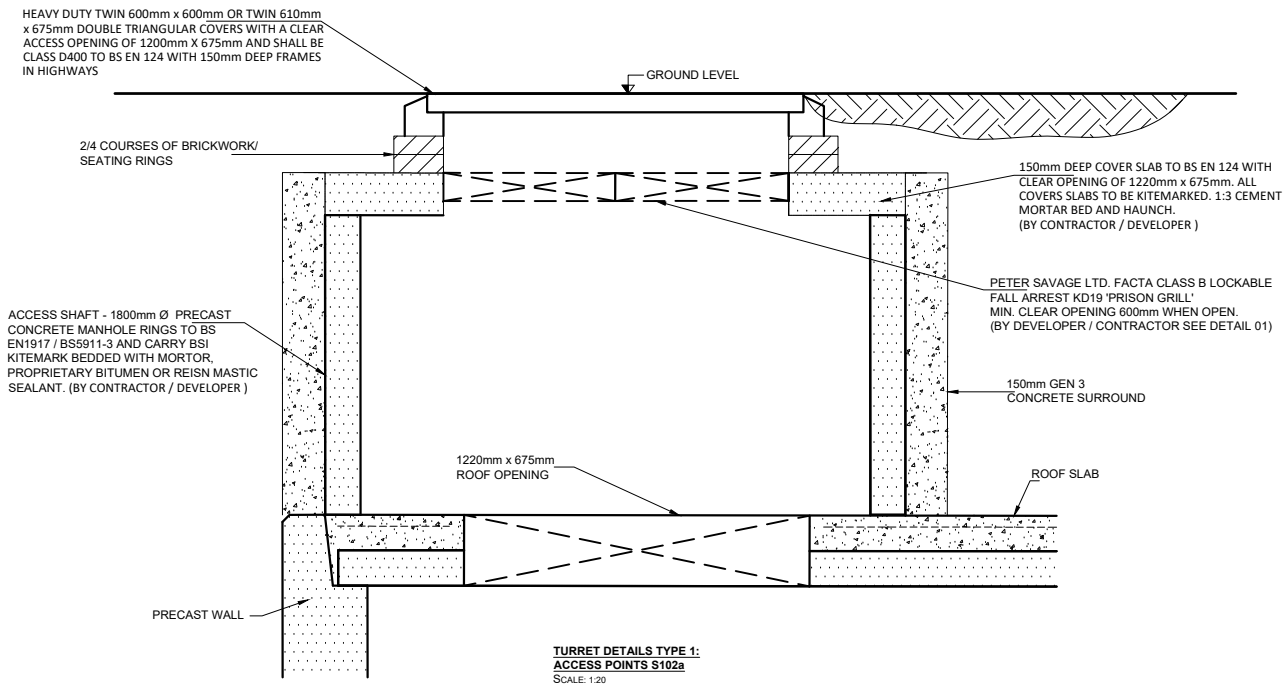
PRECAST DRY FLOW CHANNEL LIFTING ARRANGEMENT - GENERAL LIFTING AND FINAL POSITIONING:

DRAWING TITLE: DUCHY HOMES,
MOUNT VERNON, WOSBOROUGH
1.8m DEEP ATTENUATION TANK
BLINDING LAYOUT

Drawn By: EW	Rev.	Date.	Comments.
Chkd By: PL	0	21-05-21	ISSUED FOR APPROVAL
Date: 21-05-21	A	23-06-21	TANK LENGTH INCREASED BY 950mm, STORAGE VOLUME INCREASED TO 353m³
Drg No.: STS2974-006			

ALL ADOPTABLE SEWER WORKS AND MATERIAL TO BE IN ACCORDANCE WITH "CODE FOR ADOPTION", THE RELEVANT BRITISH/EUROPEAN AND YORKSHIRE WATER'S STANDARDS/REQUIREMENTS/ADDENDUM TO THE MECHANICAL AND ELECTRICAL SPECIFICATION AND KITEMARKED.

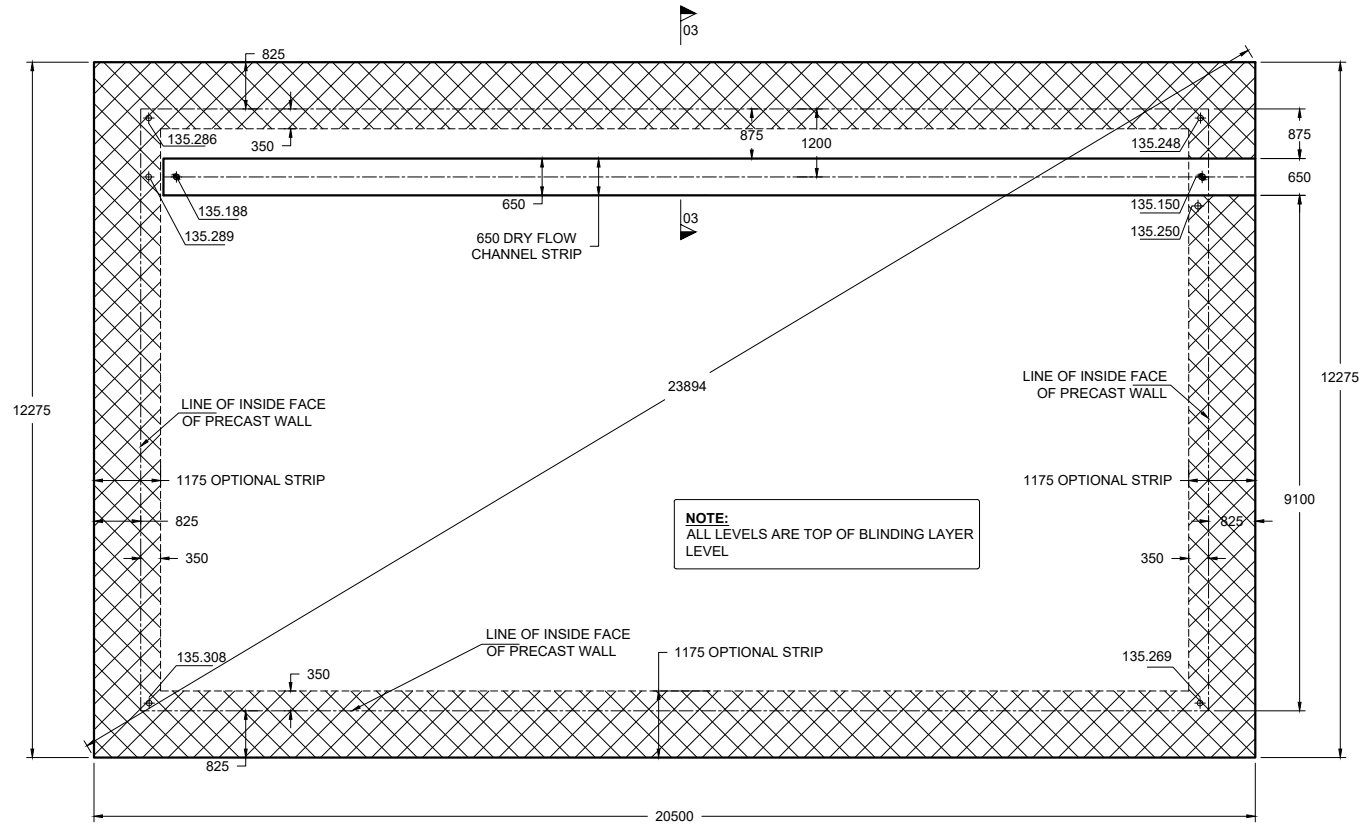
ISSUED FOR
APPROVAL



DRAWING TITLE: DUCHY HOMES,
MOUNT VERNON, WOSBOROUGH
1.8m DEEP ATTENUATION TANK
BLINDING LAYOUT

Drawn By:	EW	Rev.	Date.	Comments.
Chkd By:	PL	0	21-05-21	ISSUED FOR APPROVAL
Date:	21-05-21	A	23-06-21	TANK LENGTH INCREASED BY 950mm, STORAGE VOLUME INCREASED TO 353m ³
Drg No.:	STS2974-007			

ALL ADOPTABLE SEWER WORKS AND MATERIAL TO BE IN ACCORDANCE WITH "CODE FOR ADOPTION", THE RELEVANT BRITISH/EUROPEAN AND YORKSHIRE WATER'S STANDARDS/REQUIREMENTS/ADDENDUM TO THE MECHANICAL AND ELECTRICAL SPECIFICATION AND KITEMARKED.



ISSUED FOR APPROVAL

