

Open National Bidding for Works

CONVERSION OF EXISTING PIVOT IRRIGATION SYSTEM INTO DRIP IRRIGATION SYSTEM POINTE AUX PIMENTS SMALL SCALE IRRIGATION PROJECT

Procurement Reference No. Conv-Piv-Drip/IPU 24/01

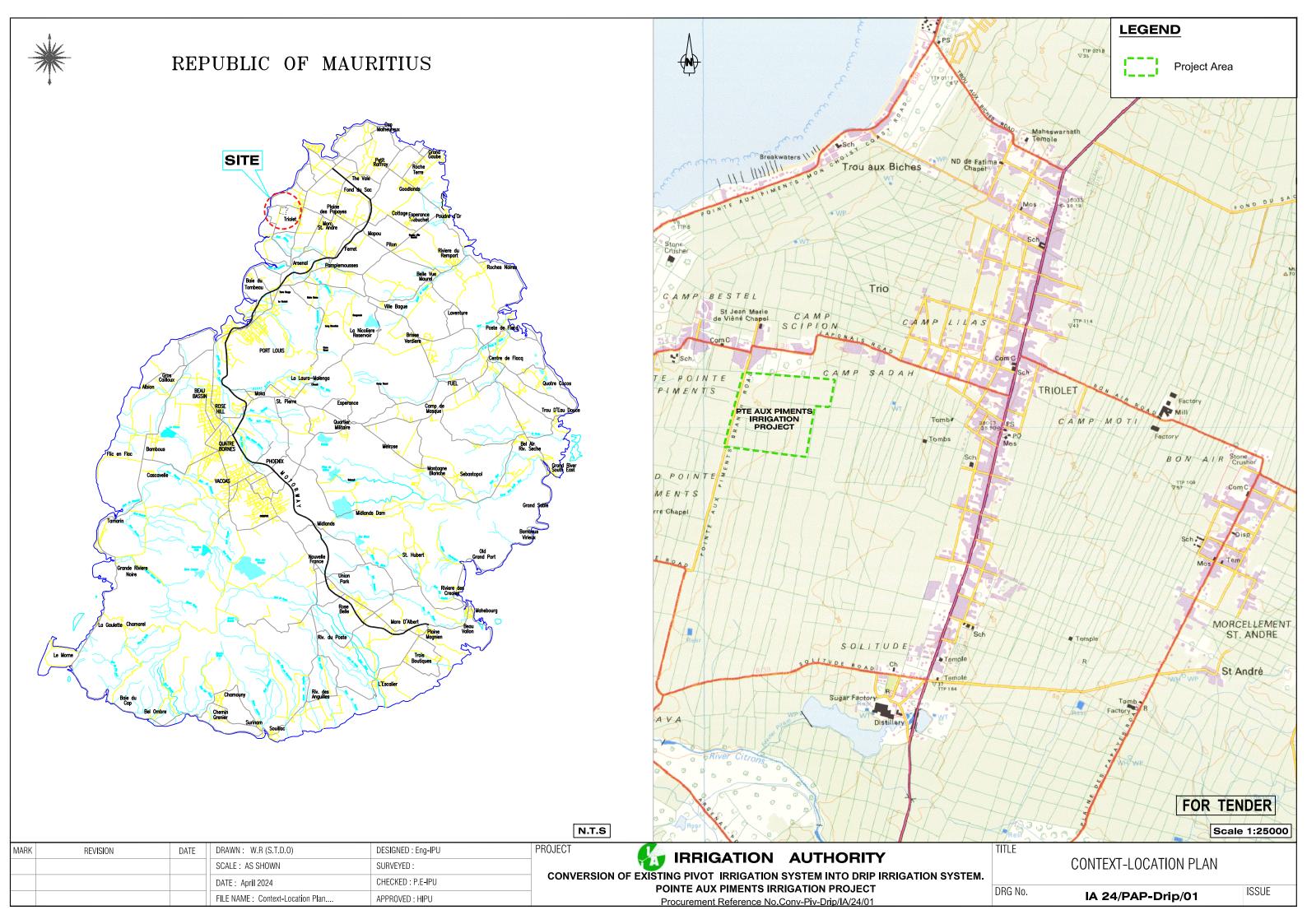
DRAWINGS

IRRIGATION AUTHORITY

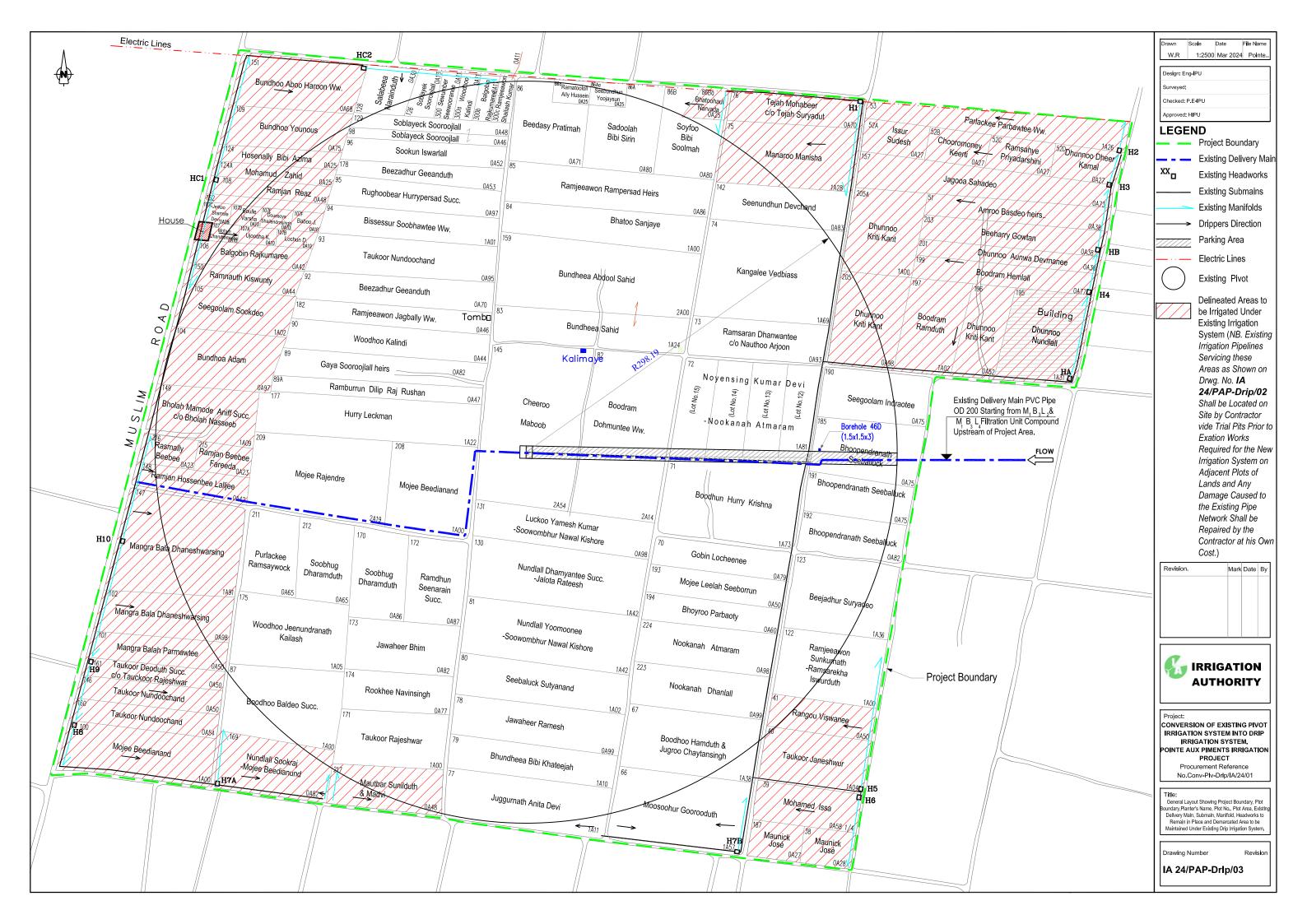
CONVERSION OF EXISTING PIVOT IRRIGATION SYSTEM INTO DRIP IRRIGATION SYSTEM POINTE AUX PIMENTS IRRIGATION PROJECT

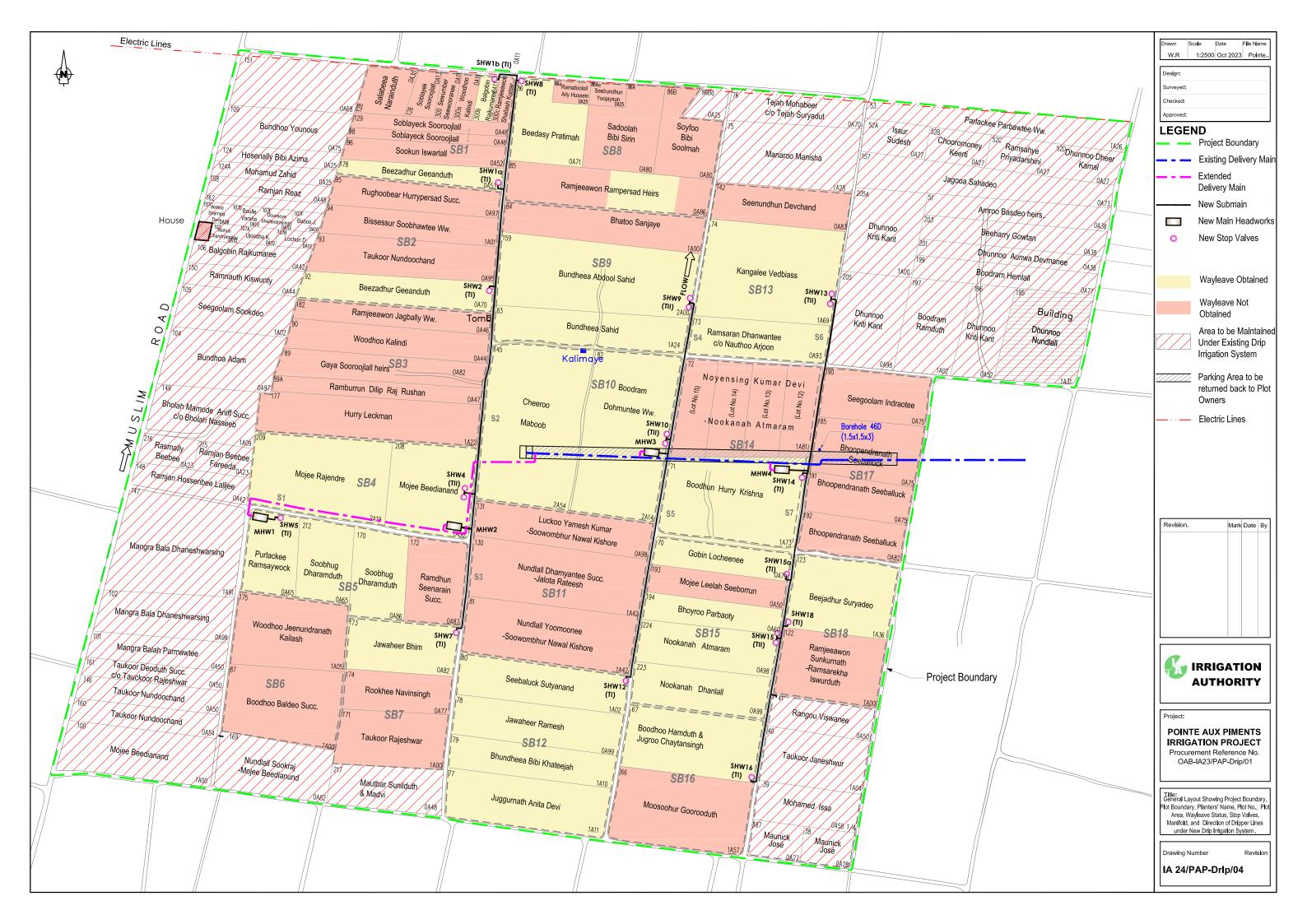
Procurement Reference No: Conv-Piv-Drip/IA/24/01 LIST OF DRAWINGS

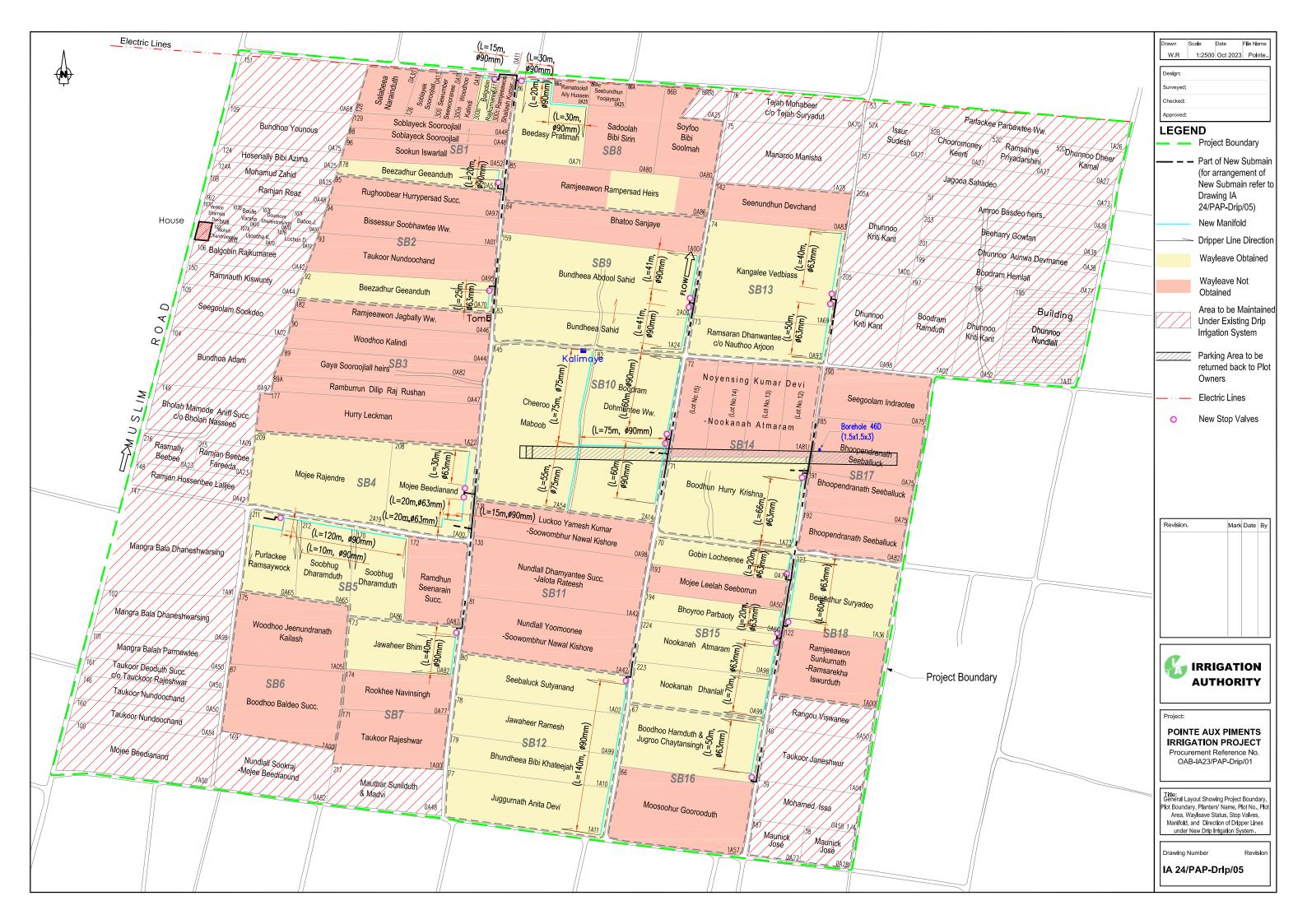
SN	DESCRIPTION OF DRAWINGS	DRAWING No.
1	Location of Project Area	IA 24/PAP-Drip/01
2	General Layout Showing Project Boundary, Plot Boundary, Planters' Name, Plot No., Plot Area, Contour Lines and Existing Pivot/Drip Irrigation System	IA 24/PAP-Drip/02
3	General Layout Showing Project Boundary, Plot Boundary, Planters' Name, Plot No., Plot Area, Existing Delivery Main, Submain, Manifold, Headworks to remain in place and Demarcated Area to be maintained under Existing Drip Irrigation System	d IA 24/PAP-Drip/03
4	General Layout Showing Project Boundary, Plot Boundary, Planters' Name, Plot No., Plot Area, Wayleave Status, Existing Delivery Main, Extended Delivery Main, New Submains, New Main Headworks and Stop Valves Under New Drip Irrigation System)	IA 24/PAP-Drip/04
5	General Layout Showing Project Boundary, Plot Boundary, Planters' Name, Plot No., Plot Area, Wayleave Status, Stop Valves, Manifold and Direction of Dripper Lines under New Drip Irrigation System	IA 24/PAP-Drip/05
6	Main Headwork Assembly for New Drip Irrigation System	IA 24/PAP-Drip/06
7	RC Details of Main Headwork Chamber	IA 24/PAP-Drip/07
8	Connection Details at Filter Plant of M1B3L2/M1B3L4	IA 24/PAP-Drip/08
9	Longitudinal Section for Extended Delivery Main, EDM 1	IA 24/PAP-Drip/09
10	Line Diagram for Submain S1	IA 24/PAP-Drip/10
11	Line Diagram for Submain S2 & S3	IA 24/PAP-Drip/11
12	Line Diagram for Submain S4 & S5	IA 24/PAP-Drip/12
13	Line Diagram for Submain S6 & S7	IA 24/PAP-Drip/13
14	Line Diagram for Delivery Main	IA 24/PAP-Drip/14
15	Drippers Details	IA 24/PAP-Drip/15
16	Typical Arrangement of PVC OD 90 & Manifold with PVC Stop Valve Inside PVC Casing OD 350 - Type I & II	IA 24/PAP-Drip/16
17	Thrust Block Details	IA 24/PAP-Drip/17
18	Trench Section for Pipe	IA 24/PAP-Drip/18
19	Structural Notes	IA 24/PAP-Drip/19

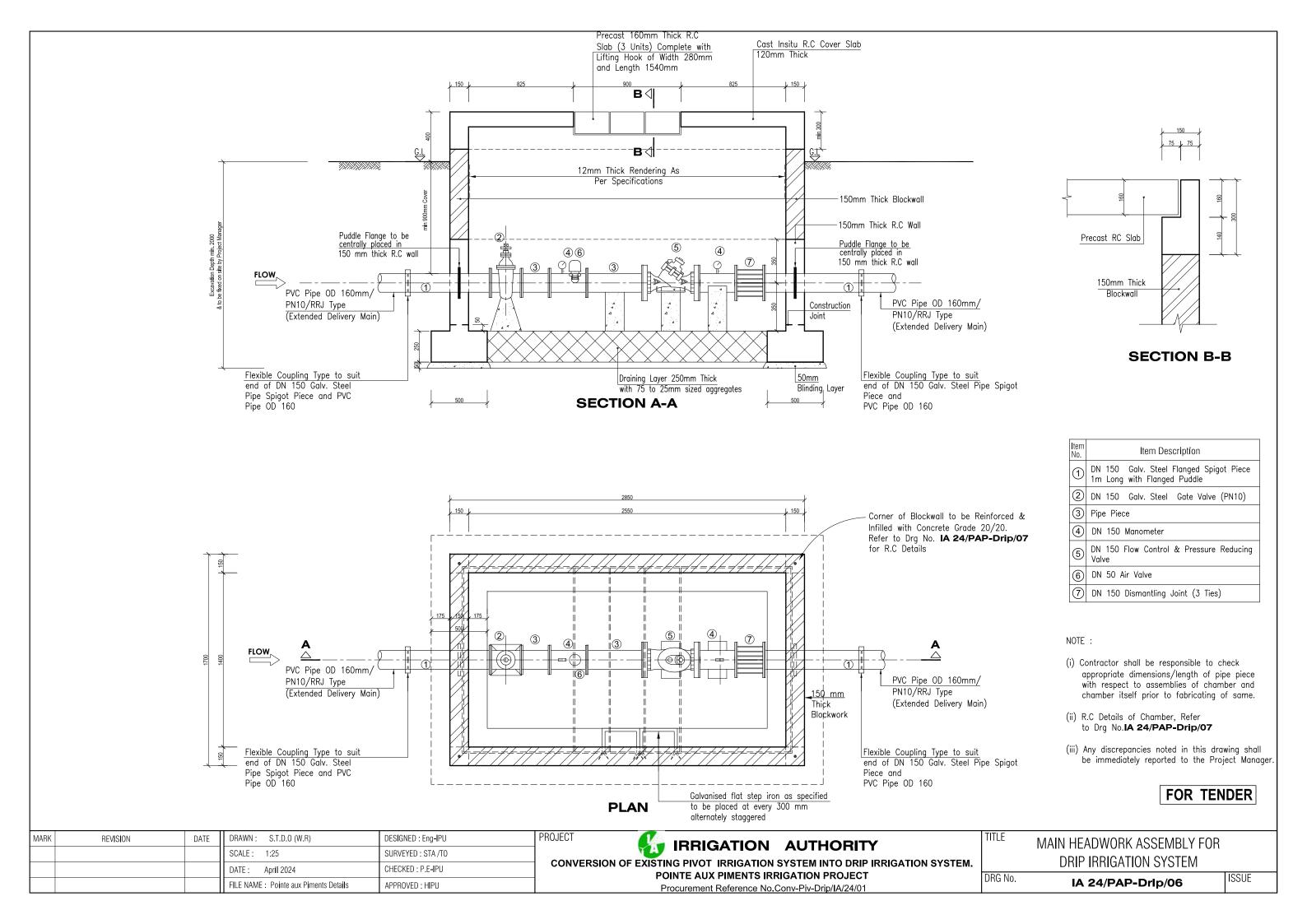


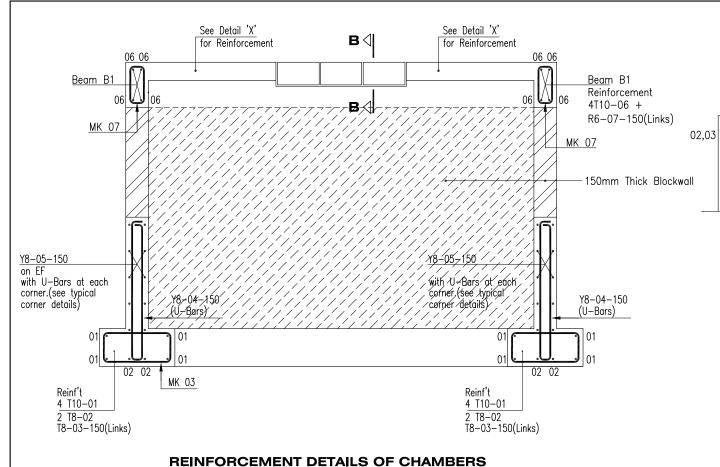






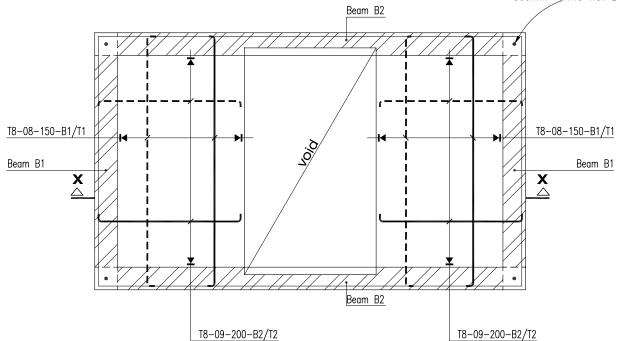






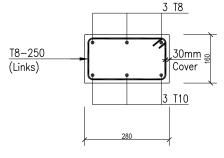
T8-250 (Links)

Infilled Concrete Grade 20/20 at each corner of Blocwork Chamber reinforced with 1Y10-01 with 500 mm continuous laps where required bars to be bent into copping beam above and Anchored 500mm in R.C Wall Below.



SECTION X-X

REINFORCEMENT DETAILS OF CAST IN-SITU COVER SLAB (120mm Thick)



A

02

R6-01-150

(Links)

1 T10-02

1 T10-03

B⟨|

R6-01a-150

(Links)

B

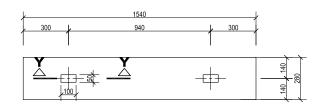
2 T10-05

1 T10-03

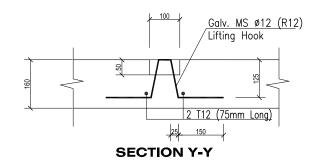
2 T10-04

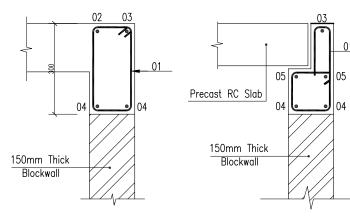
R.C DETAILS OF BEAM B2

R.C DETAILS OF PRECAST SLAB



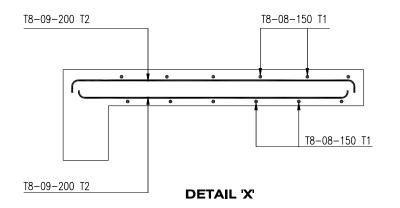
PRECAST SLAB SHOWING POSITION **OF LIFTING HOOKS**





SECTION A-A

SECTION B-B



NOTE:

- (i) Contractor shall be responsible to check appropriate dimensions/length of pipe piece with respect to assemblies of chamber and chamber itself prior to fabricating of same.
- (ii) For Layout of Chamber, Refer to Drg No.IA 24/PAP-Drip/06
- (iii) Any discrepancies noted in this drawing shall be immediately reported to the Project Manager.

FOR TENDER

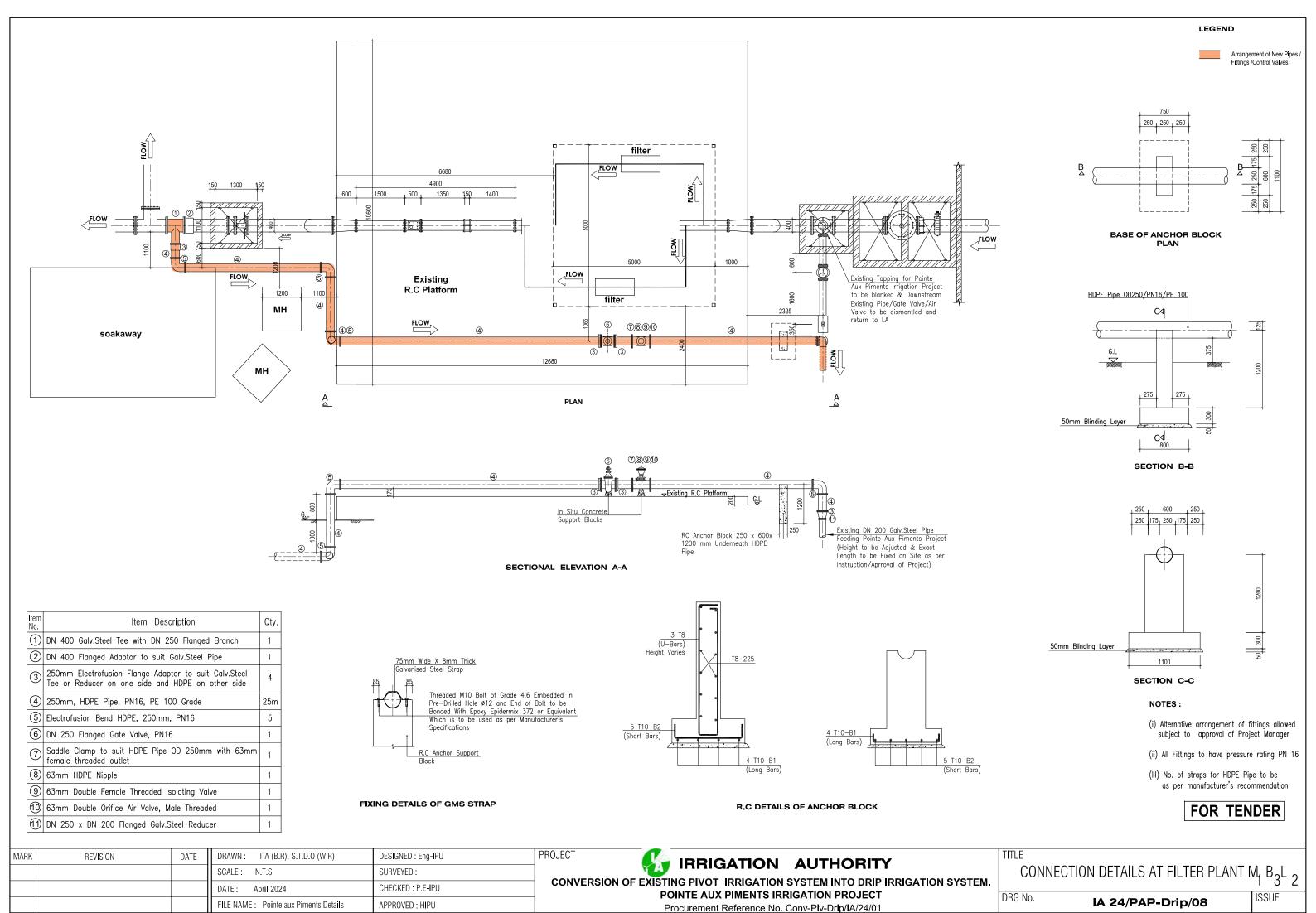
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			DATE: April 2024	CHECKED: P.E-IPU	1
			FILE NAME: Pointe aux Piments Details	APPROVED : HIPU	1

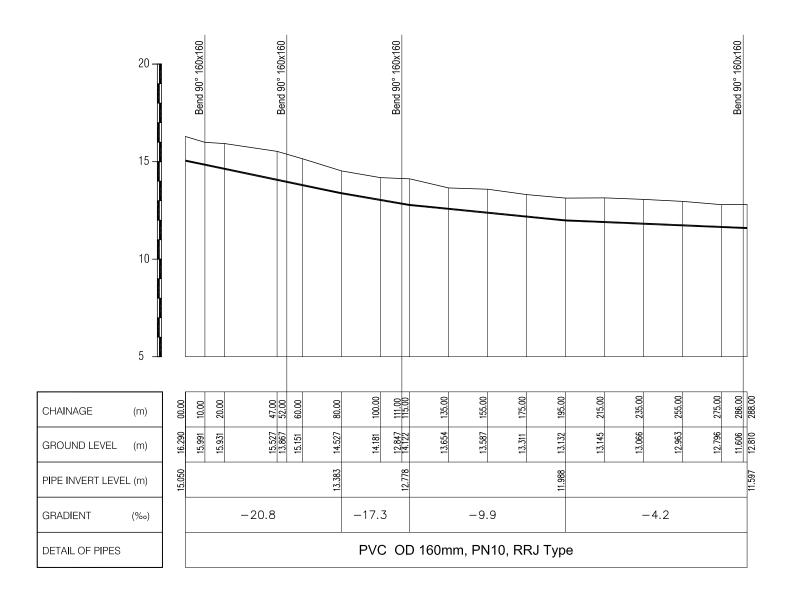
PROJECT **IRRIGATION AUTHORITY**

CONVERSION OF EXISTING PIVOT IRRIGATION SYSTEM INTO DRIP IRRIGATION SYSTEM. POINTE AUX PIMENTS IRRIGATION PROJECT Procurement Reference No.Conv-Piv-Drip/IA/24/01

TITLE	-						
	R.C DETAILS	OF N	MAIN	HEAD'	WORK	CHAN	IBER

DRG No. ISSUE IA 24/PAP-Drlp/07





PROJECT

FOR TENDER

ISSUE

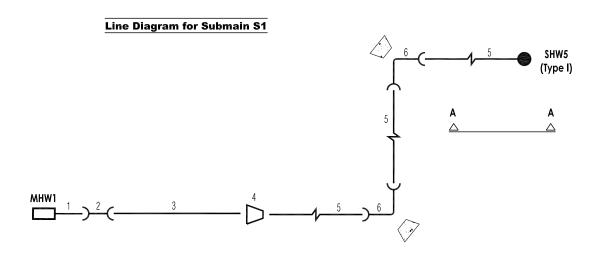
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			DATE: March 2024	CHECKED:
			FILE NAME: Pointe aux Piments L.S	APPROVED:

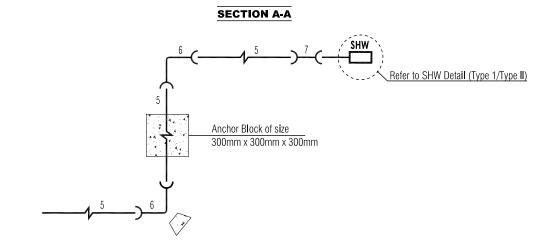
M IRRIGATION AUTHORITY

LONGITUDINAL SECTION FOR EXTENDED DELIVERY MAIN, EDM 1 FROM Ch 00.00-288.00 m DRG No.

CONVERSION OF EXISTING PIVOT IRRIGATION SYSTEM INTO DRIP IRRIGATION SYSTEM. POINTE AUX PIMENTS IRRIGATION PROJECT Procurement Reference No. Conv-Piv-Drip/IA/24/01

IA 24/PAP-Drip/09

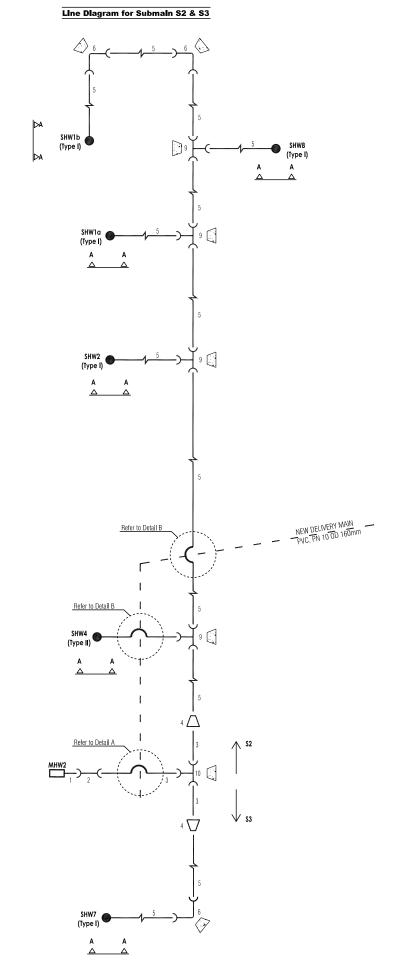


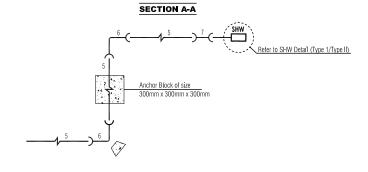


- NOTE : (i) All fittings to be of pressure rating PN 10 unless specified otherwise
- (ii) PVC fittings to be solvent weld type (SWT) unless specified otherwise $\,$
- (iii) Alternative arrangement of fittings allowed subject to approval of Project Manager

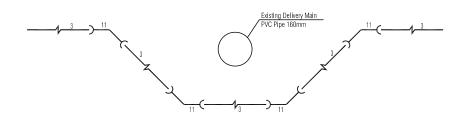
Fitting No.	Description	Qty
1	DN 150 Galvanised Steel Pipe 1000mm long with puddle flange centrally positioned flanged to DN 150 on one side and spigotted on other side. External diameter of Spigot end to be similar to PVC Pipe OD 160mm	_
2	DN 150 Flexible Coupling to suit Galvanised Steel Pipe DN 150 on one side and OD 160mm PVC Pipe	1
3	OD 160mm PVC Pipe , PN10	_
4	160 X 90mm PVC Reducer solvent weld type PN10	1
5	OD 90mm PVC Pipe, PN10, solvent weld type	10m
6	90mm PVC bend 90° solvent weld type PN10	4
7	90mm PVC Union solvent weld type PN10	2

MARK	REVISION	DATE	DRAWN: S.T.D.O (W.R)	DESIGNED : Eng-IPU	PROJECT IRRIGATION AUTHORITY INF. DIACDAM FOR CLIDMAIN C1
			SCALE: NTS	SURVEYED:	LINE DIAGNAM FUN SUDIVIAIN ST
			DATE: APRIL 2024	CHECKED : P.E-IPU	CONVERSION OF EXISTING PIVOT IRRIGATION SYSTEM INTO DRIP IRRIGATION SYSTEM. POINTE AUX PIMENTS IRRIGATION PROJECT
			FILE NAME: Pointe aux Piments Details	APPROVED : HIPU	POINTE AUX PIMENTS IRRIGATION PROJECT Procurement Reference No. Conv-Piv-Drip/IA/24/01 DRG No. IA 24/PAP-Drip/10





DETAIL A - CROSSING DETAILS, 160mm



DETAIL B - CROSSING DETAILS, 90mm

- (i) All fittings to be of pressure rating PN 10 unless specified
- (ii) PVC fittings to be solvent weld type (SWT) unless specified otherwise $% \left(1\right) =\left(1\right) \left(1\right)$
- (iii) Alternative arrangement of fittings allowed subject to approval of Project Manager $\,$

Fitting No.	Description	Qty			
1	DN 150 Galvanised Steel Pipe 1000mm long with puddle flange centrally positioned flanged to DN 150 on one side and spigotted on other side. External diameter of Spigot end to be similar to PVC Pipe 0D 160mm				
2	DN 150 Flexible Coupling to suit Galvanised Steel Pipe DN 150 on one side and 0D 160mm PVC Pipe	1			
3	OD 160mm PVC Pipe , PN10	_			
4	160 X 90mm PVC Reducer solvent weld type PN10	2			
5	OD 90mm PVC Pipe, PN10, solvent weld type	475m			
6	90mm PVC bend 90' solvent weld type PN10	15			
7	90mm PVC Union solvent weld type PN10	14			
8	90mm bend 45°, PVC, solvent weld type, PN10	8			
9	90mm, PVC Equal Tee, solvent weld type , PN10	4			
10	160mm Equal Tee, PVC, solvent weld type, PN10	1			
11	160mm bend 45°, PVC, PN10, Socketed, RRJ Type	4			

FOR TENDER

MARK	REVISION	DATE	DRAWN: S.T.D.O (W.R)	DESIGNED : Eng-IPU
			SCALE: NTS	SURVEYED:
			DATE: APRIL 2024	CHECKED : P.E-IPU
			FILE NAME : Pointe aux Piments Details	APPROVED : HIPU



M IRRIGATION AUTHORITY

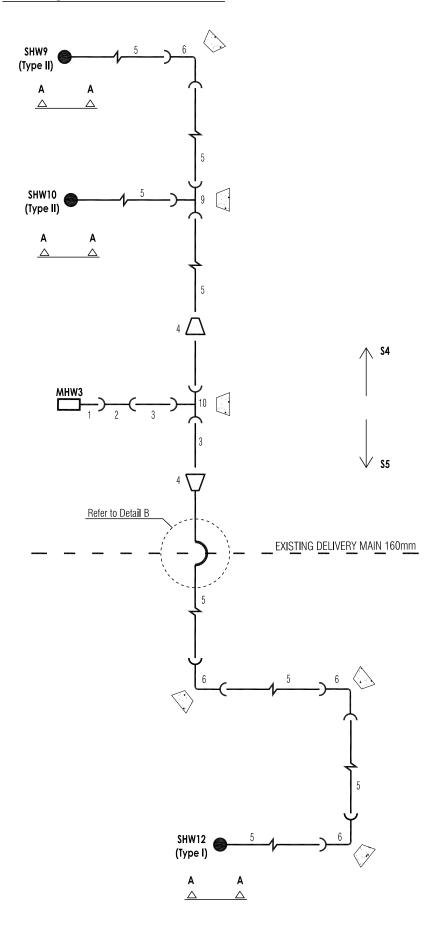
CONVERSION OF EXISTING PIVOT IRRIGATION SYSTEM INTO DRIP IRRIGATION SYSTEM. POINTE AUX PIMENTS IRRIGATION PROJECT

Procurement Reference No. Conv-Piv-Drip/IA/24/01

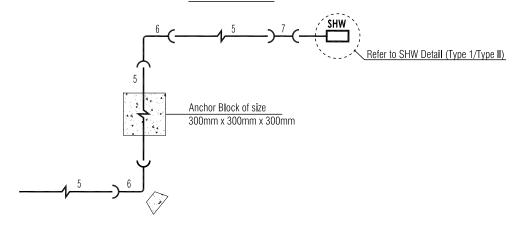
LINE DIAGRAM FOR SUBMAIN S2 & S3

DRG No. IA 24/PAP-Drip/11

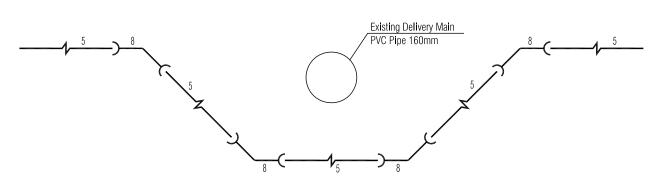
Line Diagram for Submain S4 & S5



SECTION A-A



DETAIL B - CROSSING DETAILS, 90mm



NOTE :

- (i) All fittings to be of pressure rating PN 10 unless specified otherwise
- (ii) PVC fittings to be solvent weld type (SWT) unless specified otherwise $\,$
- (iii) Alternative arrangement of fittings allowed subject to approval of Project Manager

Fitting No.	Description	Qty
1	DN 150 Galvanised Steel Pipe 1000mm long with puddle flange centrally positioned flanged to DN 150 on one side and spigotted on other side. External diameter of Spigot end to be similar to PVC Pipe OD 160mm	_
2	DN 150 Flexible Coupling to suit Galvanised Steel Pipe DN 150 on one side and OD 160mm PVC Pipe	1
3	OD 160mm PVC Pipe , PN10	_
4	160 X 90mm PVC Reducer solvent weld type PN10	2
5	OD 90mm PVC Pipe, PN10, solvent weld type	310r
6	90mm PVC bend 90° solvent weld type PN10	10
7	90mm PVC Union solvent weld type PN10	10
8	90mm bend 45°, PVC, PN10	4
9	90mm, PVC Equal Tee, solvent weld type , PN10	1
10	160mm Equal Tee, PVC, solvent weld type, PN10	1

FOR TENDER

MARK	REVISION	DATE	DRAWN: S.T.D.O (W.R)	DESIGNED : Eng-IPU
			SCALE: NTS	SURVEYED:
			DATE: APRIL 2024	CHECKED : P.E-IPU
			FILE NAME : Pointe aux Piments Details	APPROVED : HIPU

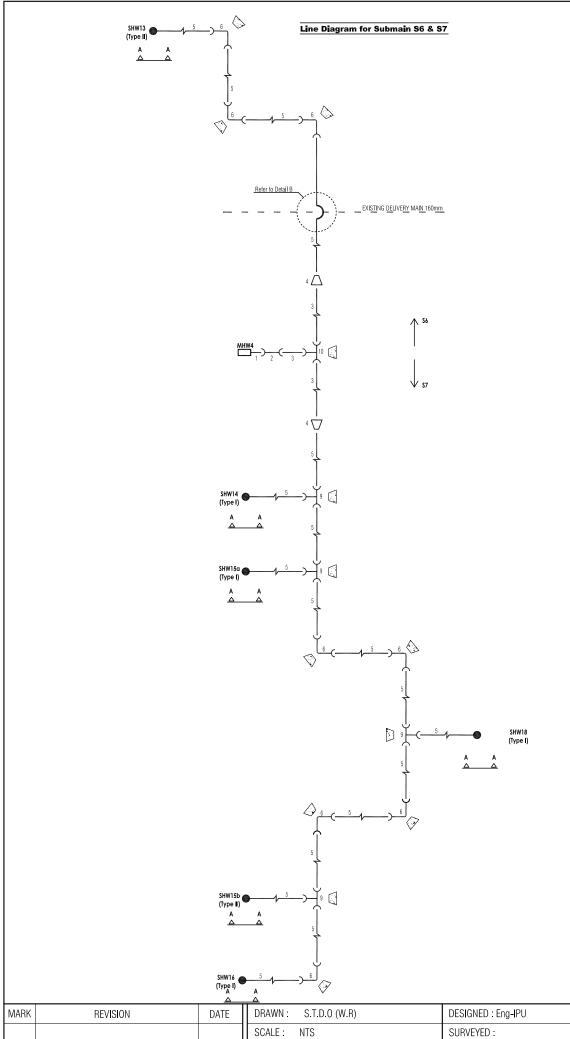
PROJECT IRRIGATION AUTHORITY

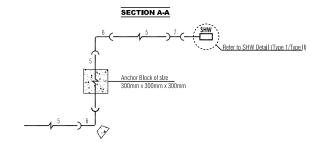
CONVERSION OF EXISTING PIVOT IRRIGATION SYSTEM INTO DRIP IRRIGATION SYSTEM.

POINTE AUX PIMENTS IRRIGATION PROJECT
Procurement Reference No. Conv-Piv-Drip/IA/24/01

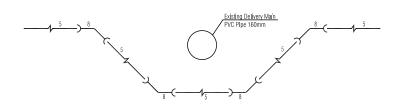
IIILE	
	LINE DIAGRAM FOR SUBMAIN S4 & S5

DRG No.	
ita ivo.	IA 24/PAP-Drip/12





DETAIL B - CROSSING DETAILS, 90mm



NOTE: (i) All fittings to be of pressure rating PN 10 unless specified otherwise

- (ii) PVC fittings to be solvent weld type (SWT) unless specified otherwise $\,$
- (iii) Alternative arrangement of fittings allowed subject to approval of Project Manager

Fitting No.	Description	Qty				
1	DN 150 Galvanised Steel Pipe 1000mm long with puddle flange centrally positioned flanged to DN 150 on one side and spigotted on other side. External diameter of Spigot end to be similar to PVC Pipe 0D 160mm	-				
2	DN 150 Flexible Coupling to suit Galvanised Steel Pipe DN 150 on one side and OD 160mm PVC Pipe OD 160mm PVC Pipe , PN10 160 X 90mm PVC Reducer solvent weld type PN10					
3						
4						
5	OD 90mm PVC Pipe, PN10, solvent weld type	420m				
6	90mm PVC bend 90° solvent weld type PN10	20				
7	90mm PVC Union solvent weld type PN10	24				
8	90mm bend 45°, PVC, solvent weld type, PN10	4				
9	90mm, PVC Equal Tee, solvent weld type , PN10	4				
10	160mm Equal Tee, PVC, PN10, RRJ Type	1				

FOR TENDER

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MARK	REVISION	DATE	DRAWN: S.T.D.O (W.R)	DESIGNED : Eng-IPU	PROJ
			SCALE: NTS	SURVEYED:	
			DATE: APRIL 2024	CHECKED : P.E-IPU	C
			FILE NAME: Pointe aux Piments Details	APPROVED : HIPU	

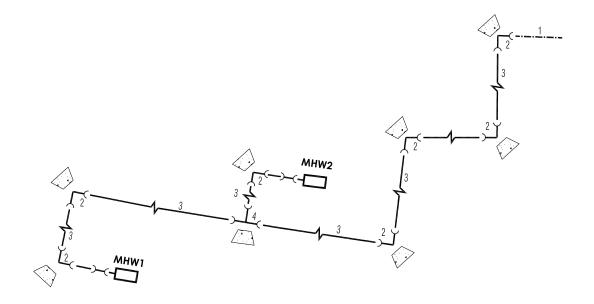
MI IRRIGATION AUTHORITY

CONVERSION OF EXISTING PIVOT IRRIGATION SYSTEM INTO DRIP IRRIGATION SYSTEM.

POINTE AUX PIMENTS IRRIGATION PROJECT Procurement Reference No. Conv-Piv-Drip/IA/24/01

LINE DIAGRAM FOR SUBMAIN S6 & S7

DRG No. IA 24/PAP-Drip/13



MHW3	
$ -$	
<u>5</u> ————————————————————————————————————	->6 - 5 - 6 1 1 1 1
	1 3 MHW4

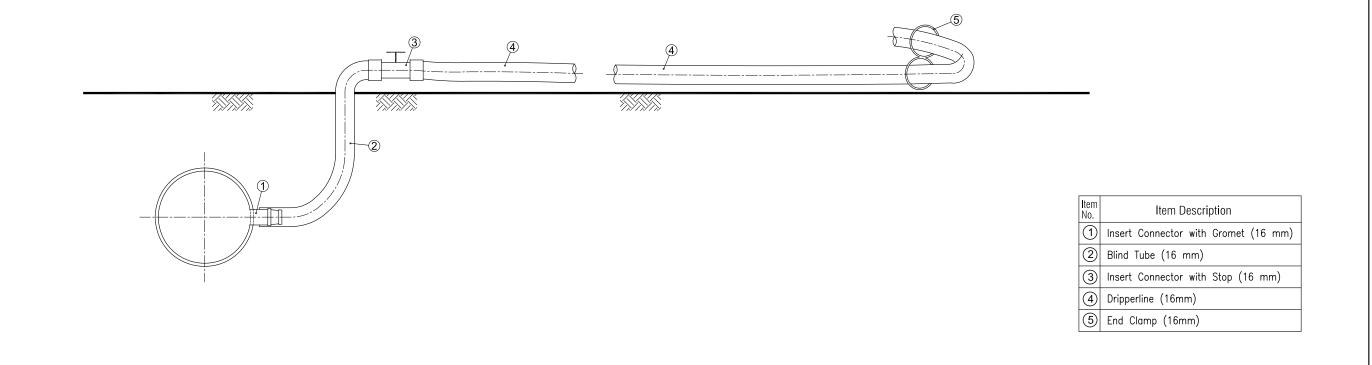
Fitting No.	Description							
1	Existing PVC Pipe OD 160mm	-						
2	DN 160 Socketed PVC Bend 90°, RRJ Type, PN 10	7						
3	OD 160mm PVC Pipe PN 10, RRJ Type	310m						
4	DN 160 PVC Equal Tee (Socketed), RRJ Type, PN 10	1						

NOTE :

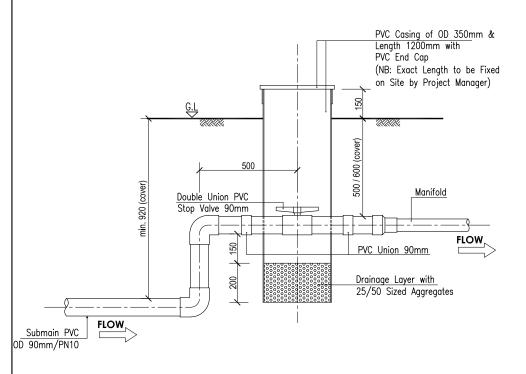
(i) Alternative arrangement of fittings allowed subject to approval of Project Manager

Fitting No.	Description	Qty					
1	Existing PVC Pipe OD 160mm	_					
2	Socketed PVC Bend 90°, RRJ Type, 160mm						
3	OD 160mm PVC Pipe PN 10, RRJ Type	20m					
5	DN 150 Galv.Steel Equal Tee Flanged on all three sides	2					
6	DN 150 Flange Adaptor to suit PVC Pipe 0D 160mm	6					

MARK	REVISION DATE	DRAWN: S.T.D.O (W.R)	DESIGNED : Eng-IPU	PROJECT IRRIGATION AUTHORITY
		SCALE: NTS	SURVEYED : STA /TO	LINE DIAGRAM FOR DELIVERY MAIN
		DATE: APRIL 2024	CHECKED : P.E-IPU	CONVERSION OF EXISTING PIVOT IRRIGATION SYSTEM INTO DRIP IRRIGATION SYSTEM. POINTE AUX PIMENTS IRRIGATION PROJECT INSCHIE
		FILE NAME: Pointe aux Piments Line Diagram	APPROVED : HIPU	POINTE AUX PIMENTS IRRIGATION PROJECT Procurement Reference No. Conv-Piv-Drip/IA/24/01 DRG No. IA 24/PAP-Drip/14



MARK	REVISION	DATE	DRAWN: S.T.D.O (W.R)	DESIGNED : S.M	PROJECT IRRIGATION AUTHORITY	TITLE		
			SCALE: 1:2.5	SURVEYED:			DRIPPERS DETAILS	
			DATE: April 2024	CHECKED : D.J	CONVERSION OF EXISTING PIVOT IRRIGATION SYSTEM INTO DRIP IRRIGATION SYSTEM. POINTE AUX PIMENTS IRRIGATION PROJECT	DDC No		Песиг
			FILE NAME : Pointe aux Piments Details	APPROVED : HIPU	Procurement Reference No. Conv-Piv-Drip/IA/24/01	DRG No.	IA 24/PAP-Drip/15	ISSUE

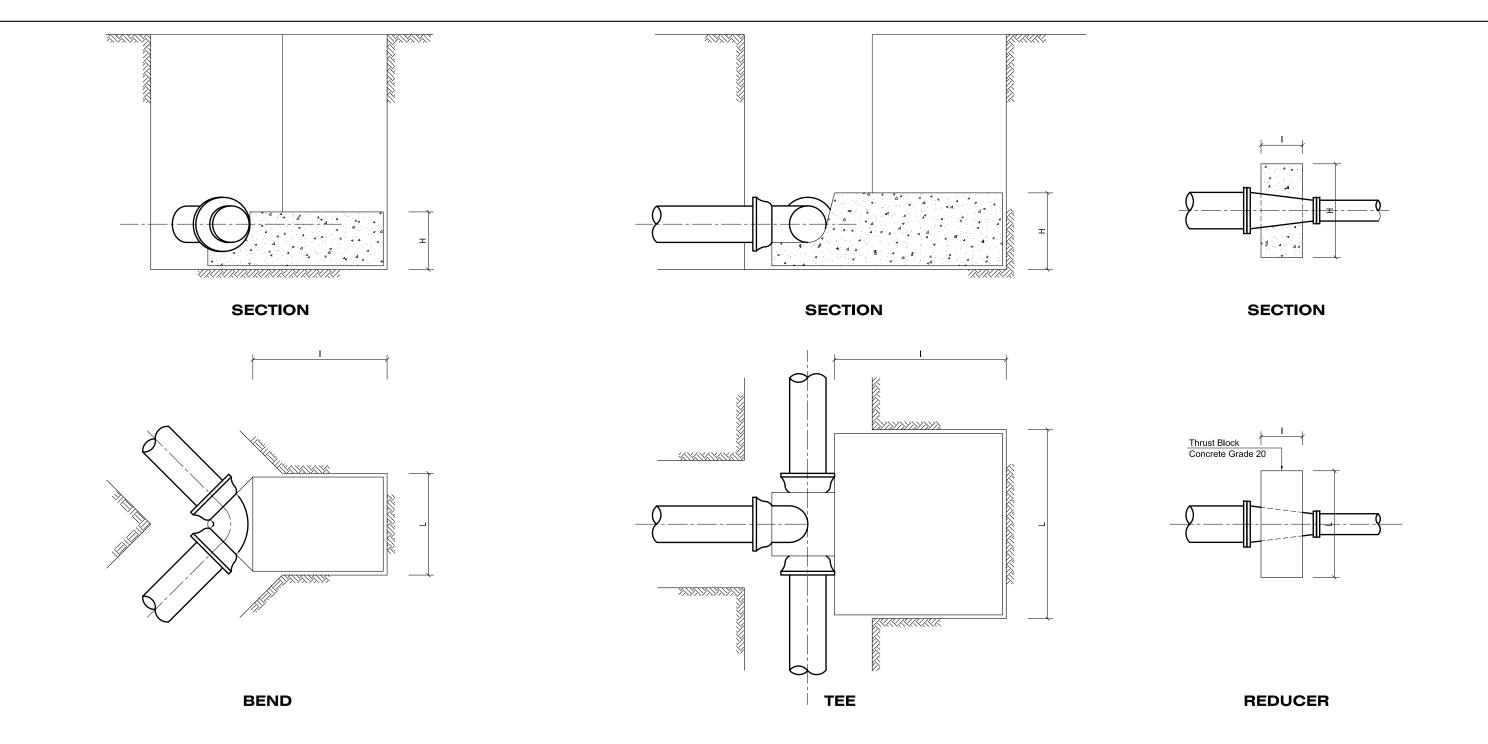


PVC Casing of OD 350mm & Length 1200mm with PVC Casing of OD 350mm & Length 1200mm with PVC End Cap PVC End Cap (NB: Exact Length to be Fixed (NB: Exact Length to be Fixed on Site by Project Manager) on Site by Project Manager) G.L Double Union PVCS
Stop Valve 90mm 500 Double Union PVC
Stop Valve 90mm Manifold PVC Union 90mm FLOW PVC Union 90mm <u>Drainage Layer with</u> 25/50 Sized Aggregates Drainage Layer with 25/50 Sized Aggregates Submain PVC OD 90mm/PN10

TYPE I

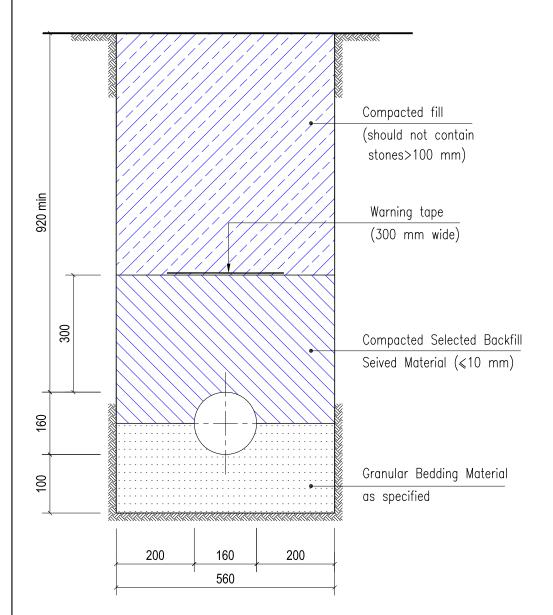
TYPICAL ARRANGEMENT OF PVC PIPE OD 90mm & MANIFOLD WITH PVC STOP VALVE INSIDE PVC CASING OD 350mm-TYPE I & II

MARK	REVISION	DATE	DRAWN: S.T.D.O (W.R)	DESIGNED : Eng-IPU	PROJECT	IRRIGATION AUTHORITY	TITLE	DDANGEMENT OF DVO OD OO A MANUFOLD WITH D	DVO OTOD
			SCALE: 1:20	SURVEYED:	CONVERSION OF EVI		TYPICAL A	RRANGEMENT OF PVC OD 90 & MANIFOLD WITH P VALVE INSIDE PVC CASING OD 350-TYPE I & II	PVC STOP
			DATE: April 2024	CHECKED : P.E-IPU		STING PIVOT IRRIGATION SYSTEM INTO DRIP IRRIGATION SYSTEM. POINTE AUX PIMENTS IRRIGATION PROJECT	DDC No		Тіссиг
			FILE NAME: Pointe aux Piments Details	APPROVED : HIPU		Procurement Reference No. Conv-Piv-Drip/IA/24/01	DRG No.	IA 24/PAP-Drip/16	ISSUE

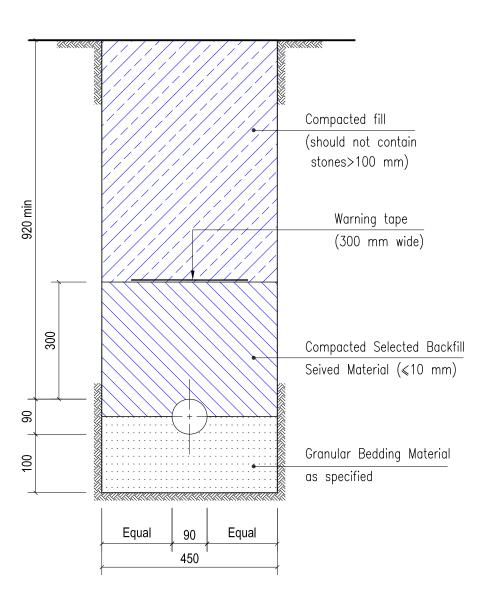


		BEND			TEE				REDUCER				
	Diameter (mm)				Diameter (mm)				Diameter (mm)				
Angle	160	90	63	32	160 x 160 x 160	150 x 150 x 150	90 x 90 x 90	75 x 75 x 75	63 x 32	75 x 32	90 x 63	90 x 75	160 x 90
		L x H x I(mm)					L x H x I(mm)				L x H x I(mm)		
90	1.0 x 0.9 x 1.0	0.5 x 0.6 x 0.6	0.4 x 0.4 x 0.4	0.3 x 0.3 x 0.3	0.95 x 0.9 x 0.95	0.95 x 0.9 x 0.95	0.5 x 0.5 x 0.5	0.4 x 0.5 x 0.4	0.1 x 0.4 x 0.3	0.7 x 0.7 x 0.7			
45	1.0 x 0.9 x 0.9	0.5 x 0.5 x 0.6											

MARK	REVISION	DATE	DRAWN: S.T.D.O (W.R)	DESIGNED : Eng-IPU	PROJECT IRRIGATION AUTHORITY
			SCALE: N.T.S	SURVEYED:	I I I I I I I I I I I I I I I I I I I
			DATE: April 2024	CHECKED : P.E-IPU	CONVERSION OF EXISTING PIVOT IRRIGATION SYSTEM INTO DRIP IRRIGATION SYSTEM. POINTE AUX PIMENTS IRRIGATION PROJECT DRC No
1			FILE NAME : Pointe aux Piments Details	APPROVED : HIPU	POINTE AUX PIMENTS IRRIGATION PROJECT Procurement Reference No. ConvPivDrip/IA/24/01 DRG No. IA 24/PAP-Drip/17

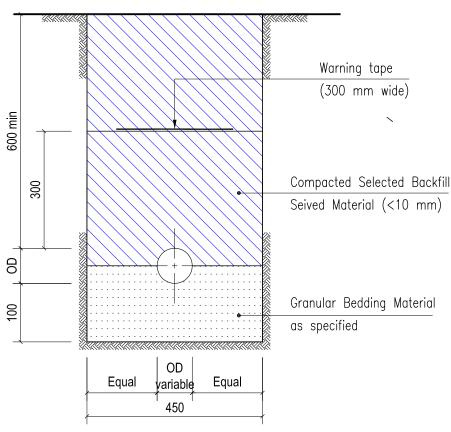


TYPICAL TRENCH SECTION FOR DELIVERY MAIN

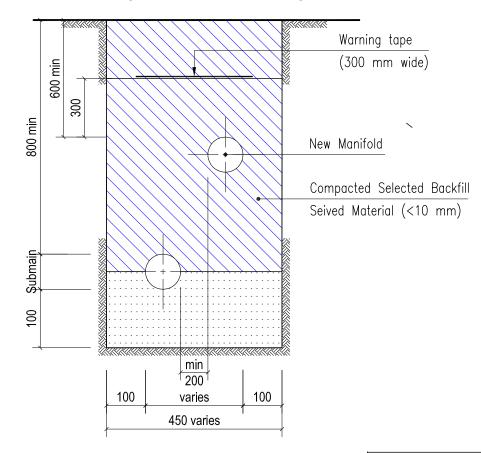


TYPICAL TRENCH SECTION FOR SUBMAIN

PROJECT



TYPICAL TRENCH SECTION FOR MANIFOLD (Ø90,75,63,50 mm)



COMMON TRENCH SECTION FOR EXISTING SUBMAIN & NEW MANIFOLD

FOR TENDER

MARK	REVISION	DATE	DRAWN: S.T.D.O (W.R)	DESIGNED : Eng-IPU
			SCALE: 1:10	SURVEYED:
			DATE: April 2024	CHECKED : P.E-IPU
			FILE NAME: Pointe aux Piments Details	APPROVED : HIPU

FIGATION AUTHORITY

CONVERSION OF EXISTING PIVOT IRRIGATION SYSTEM INTO DRIP IRRIGATION SYSTEM. POINTE AUX PIMENTS IRRIGATION PROJECT Procurement Reference No. Conv-Piv-Drip/IA/24/01

TITLE		
	TRENCH SECTION DETAILS FOR P	IPI

DRG No. IA 23/PAP-Drip/18

GENERAL

- G1. Structural drawings are to be read in conjunction with all ARCHITECTURAL DRAWINGS and specifications and with such other written instruction as may be issued during the course of the contract. All discrepancies shall be referred to the Project Manager for decision before proceeding with the works and/or ordering materials.
- G2. All dimensions and levels relevant to setting out and off site work shall be verified by the contractor before construction and fabrication is commenced. THE DRAWINGS SHALL NOT BE SCALED.
- G3. Workmanship and materials are to be in accordance with the relevant Mauritian standards or British Standards [in absence of Mauritian Standards] and local statutory authorities regulations.
- G4. During construction the contractor shall be responsible for maintaining the structure in a stable condition and ensuring no part shall be overstressed under construction activities.
- G5. The written approval of a substitution of material along with the costs implications, if any, shall be sought by the Contractor from the Project Manager before proceeding with work and/or ordering materials.
- G6. All dimensions are in millimetres unless stated otherwise. All levels are expressed in metres unless shown otherwise.

STRUCTURAL CONCRETE

- C1. All workmanship and materials shall be in accordance with BS 8110 The Structural Use of Concrete.
- C2. Construction of water retaining structure shall be in accordance with BS 8007 Concrete Structures for Retaining Aqueous Liquids
- C3. Minimum cover (mm) to all reinforcement unless otherwise shown shall be as follows:-

	Element	Cove(m	m)
(a)	Foundation against earth face	75	•
(b)	Foundation against blinding	50	
(c)	Wall below ground or against water face	40 to v	vertical outer bars
(d)	Column > 200 mm	35 —	
	< 200 mm	30	to links
(e)	Ground beams	30	to iiiiks
(f)	Beams	30	
(g)	Slab on fill	30	
(h)	Suspended slabs	25	
(i)	Reinforced concrete wall	30 to v	vertical outer bars

The above covers may be decreased by 5mm for concrete surfaces to be finished with cement mortar rendering / screed.

- C3. Sizes of concrete elements do not include thickness of applied finishes.
- C4. Beam depths are written first and include slab thickness.
- C5. No holes, chases or embedment of pipes other than those shown on the structural drawings shall be made in concrete members without prior written approval of the Project Manager.
- C6. Construction joints shall be properly formed as specified and made only where shown or specifically approved by the Project Manager.
- C7. Reinforcement is represented diagrammatically and not necessarily shown in true projection.
- C8. Splices in reinforcement shall be made only in the positions shown or as otherwise approved by the Project Manager.
- C9. Welding of reinforcement and /or use of approved couplers with threaded bars shall not be permitted without the approval of the Project Manager.
- C10. All reinforcement shall be securely supported in its correct position during concreting by approved bar chairs, spacers or support bars.
- C11. Reinforcement shall be checked by the Project Manager and a written approval of the Project Manager should be obtained before concreting.
- C12. Reinforcement symbols

All reinforcement of concrete & fabric reinforcement to comply with MS 10, MS 34 & MS 35 Mauritian Standard for steel bars for the reinforcement of concrete.

T- Hot rolled deformed bar - grade 460 (i.e. minimum yield strength 460 N/mm²)

R - Structural grade mild steel plain round bar - grade 250 N/mm²)

The number following the bar symbol is the nominal bar diameter in millimetres.

C13. Concrete grades shall be as follows unless shown otherwise on drawings:-

DATE

Element	Grade of Fcu
All atrustural apparata	Concrete (Mpa)

DRAWN:

DATE ·

SCALE: N.T.S

All structural concrete
Unless otherwise specified

30/20 30 - (Characteristic Cube Strength of 30 N/mm² at 28 days)

SURVEYED : CHECKED : P.E-IPU

Water tanks

REVISION

MARK

35/20

W.R

April 2024

FILE NAME: Pointe aux Piments Details

35 - (Characteristic Cube Strength of 35 N/mm² at 28 days)

DESIGNED : Eng-IPU

APPROVED: HIPU

FOUNDATION

- F1. All materials and workmanship shall be in accordance with BS 8004 Code of Practice for Foundations where not inconsistent with the specification.
- F2. Pad and strip footing shall be founded at depth below ground level shown on the drawings or as instructed on site by Project Manager.

 Project Managers written approval is required before blinding of any foundation.

CONCRETE BLOCKWORK

- B1. All workmanship and materials shall be in accordance with BS 5628 -Code of practice for use of masonry.
- B2. Concrete block shall be manufactured in accordance with BS 6073 Precast concrete masonry units. They shall be cellular blocks of Grade A with average compressive strength of 3.5 N/mm2. Size of concrete block shall be 457 x 203 x 200 thick or 150 thick unless otherwise specified.
- B3. The mortar for laying blocks shall consist of 1 part Portland cement : 3 to 4 parts of washed sand and an approved plasticiser unless otherwise specified.
- B4. Brick reinforcement to masonry blockwall shall be as shown on the drawings.
- B5. Reinforced concrete infill to blockwork where required shall be of Grade 20/10 with reinforcement as specified.
- B6. All concrete blocks to be laid first before concreting of columns and beams unless otherwise shown.

STRUCTURAL STEELWORK

- S1. All workmanship and materials shall be in accordance with BS 5950 The Structural use of Steelwork in Buildings where not inconsistent with the specifications.
- S2. Welding shall be performed by an experienced operator in accordance with BS 4870 (Part 1) Fusion welding of steel. All welding rods shall comply with BS 639 and general requirements for metal Arc welding for mild steel shall comply with BS 5135
- S3. Bolts not designated shall be grade 8.8. All bolts shall conform to BS 4190 and / or BS 3692 as, appropriate and shall be hot dipped galvanised to BS 729 with minimum coating of 600 gms/m².
- S4. All metal washers shall comply with BS 4320 and shall be hot dipped galvanised to BS 729 (600 gms/m²) i.e. 85 microns on each face
- S5. The contractor shall provide and leave in place until permanent bracing elements are constructed such temporary bracing as is necessary to stabilize the structure during erection.
- **S6**. Unless otherwise specified all steelwork shall be hot dipped galvanised as specified.
- S7. The ends of all tubular members are to be sealed with nominal thickness plates and continuous fillet weld unless otherwise shown.
- S8. All plates shall be of grade 43A to BS 4848 (part 1 & 4). All rectangular, circular & square hollow sections and other structural steel sections shall be of grade 43A and comply with BS 4848 (Part 2) and shall be hot dipped galvanised to BS 729 with minimum coating (combining all surface areas) of 600 gms/m², i.e. 85 microns.
- S9. Painting to structural steel shall be as specified for galvanised steel.
- S10. All welding shall be 6mm continuous fillet weld unless otherwise shown.

	PROJECT PROJECT	TITLE
J	IRRIGATION AUTHORITY	
	Inhigation Admeniti	STRUCTURAL NOTES
	CONVERSION OF EXISTING PIVOT IRRIGATION SYSTEM INTO DRIP IRRIGATION SYSTEM.	
	POINTE AUX PIMENTS IRRIGATION PROJECT	DRG No. IA 34/DAD Drin/10 ISSUE
	Procurement Reference No.Conv-Piv-Drip/IA/24/01	IA 24/PAP-Drip/19