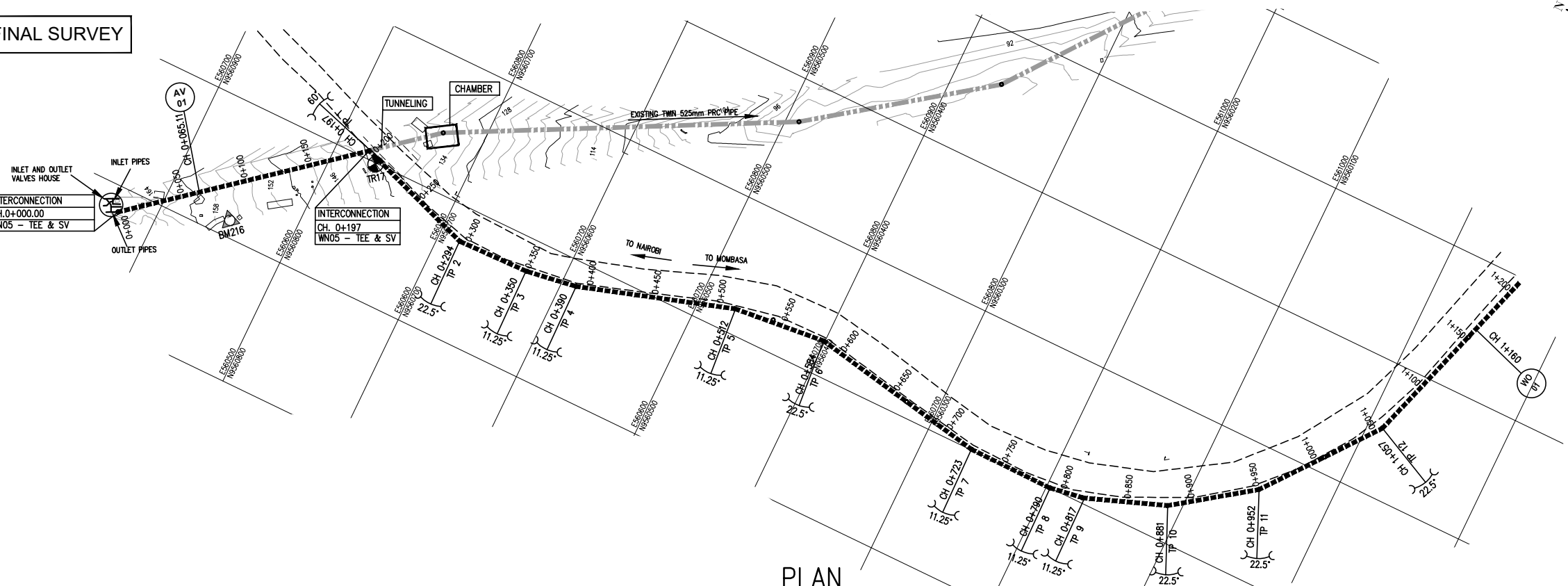
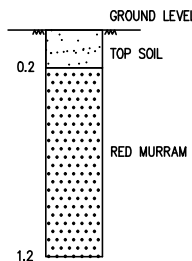


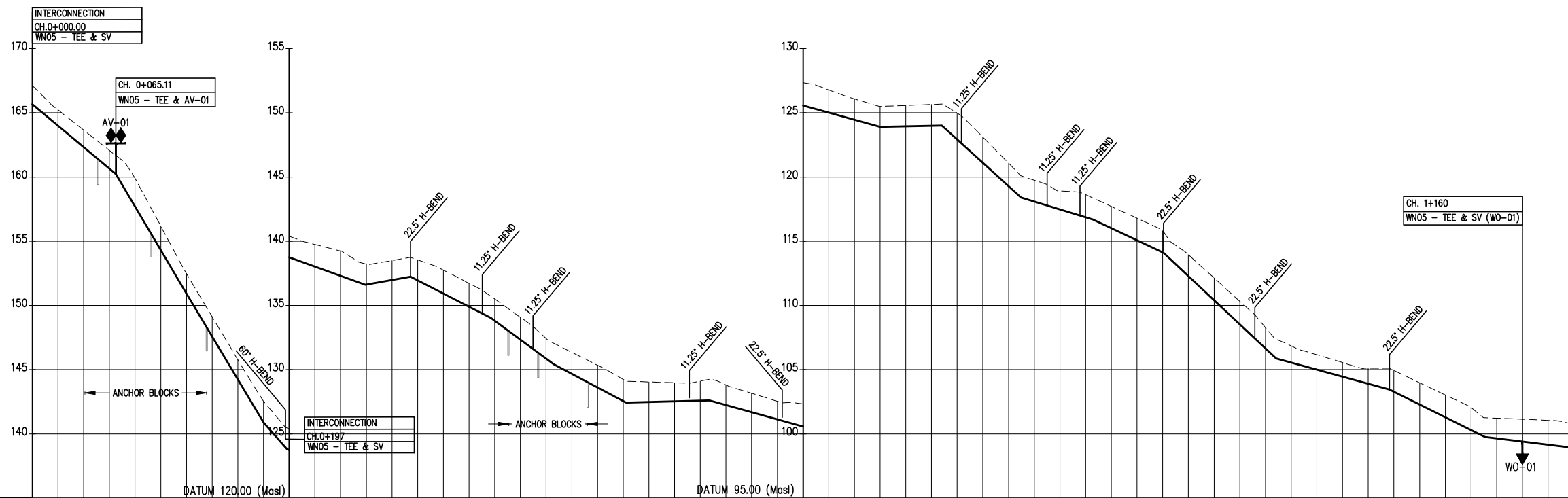
AWAITING FINAL SURVEY

TRIAL HOLE TR17 DETAILS



PLAN

SCALE 1:2000



DATUM 135.00 (Masl)

DATUM 120.00 (Masl)

DATUM 95.00 (Masl)

TYPE AND SIZE OF PIPE	DN 800 FERROUS PIPE TO PN 16																			
GEOLOGICAL CONDITION	MURRAM																			
EXISTING GROUND LEVEL (m)	167.13	165.22	163.65	162.08	159.90	156.17	152.47	149.12	145.77	142.54	138.49	135.50	132.42	129.34	126.78	124.98	123.11	121.08	118.91	116.63
INVERT LEVELS (m)	165.67	164.00	162.33	160.65	157.70	154.39	150.94	147.59	144.24	140.89	136.94	133.81	130.67	127.59	124.98	122.91	121.10	119.29	117.48	115.67
CHAINAGES (M)	0+000	0+020	0+040	0+060	0+080	0+100	0+120	0+140	0+160	0+180	0+200	0+220	0+240	0+260	0+280	0+300	0+320	0+340	0+360	0+380
DEPTH OF INVERT (m)	1.45	1.22	1.33	1.43	2.20	1.85	1.54	1.53	1.53	1.65	1.65	1.72	1.93	1.60	1.51	1.59	1.82	1.82	1.69	1.74
SLOPE OF PIPE (%)	-8.37%	-16.92%	-16.75%	-14.33%	-3.61%	1.79%	-5.14%	-7.39%	-5.30%	0.26%	-2.78%	0.20%	-9.07%	-3.05%	-4.73%	-9.37%	-2.75%	-4.98%	-1.23%	
REFERENCE PEG No.																				

LONGITUDINAL PROFILE

SCALE H 1:2000, V 1:200

NOTES

- CONTOUR LEVELS ARE IN METERS AT ONE METER INTERVALS
- GRID VALUES ARE IN METERS AT 100 METER INTERVALS
- GEOLOGICAL CONDITIONS INDICATED ON DRAWING ARE FOR GENERAL GUIDANCE ONLY
- MINIMUM PIPELINE SLOPES TO BE 1:500
- DRAWING TO BE READ IN CONJUNCTION WITH STANDARD DRAWINGS
- ALL PIPE FITTINGS TO BE CONFIRMED ON SITE DURING SETTING OUT
- THE SURVEY WAS BASED ON THE DATUM BM216 WITH THE FOLLOWING COORDINATES AND ELEVATION

BENCHMARK	COORDINATES		
REF No.	EASTING	NORTHING	ELEVATION
BM216	560,612.63	9,560,847.94	156.95

LEGEND:

- ROAD (TARMAC)
- ROAD / FOOTPATH / TRACK (EARTH / MURRAM)
- FENCE / HEDGE
- CONTOURS, 1m INTERVAL
- ELECTRIC POST
- CULVERT
- GATE
- BUILDINGS
- PROPOSED WATER MAIN
- EXISTING WATER MAIN
- TP10 TRAVERSE POINT & No.
- TREES
- TRIAL HOLE
- HORIZONTAL BEND (H) OR VERTICAL BEND (V) WITH ANGLE INDICATED
- PIPELINE GRADIENT WITH SLOPE DIRECTION (SLOPE MIN. OR 1 IN n)
- PERIMETER WALL
- SV SLUICE VALVE
- FH FIRE HYDRANT
- WO-01 WASHOUT VALVE & No.
- AV-01 COMBINATION AIR VALVE & No.
- BENCHMARK (CONCRETE WITH IRON PIN)

CONSTRUCTION ISSUE

Signed: SLM/D00

REV	REVISIONS	SIGN	DATE	APPROVED
	BY			
	CHECKED			
	BY			
	CHECKED			
	BY			
	CHECKED			
C0	CONSTRUCTION ISSUE	BY	BAO	DEC,22
		CHECKED		

Project Implementing Agency:
THE CHIEF EXECUTIVE OFFICER
COAST WATER WORKS
DEVELOPMENT AGENCY
P.O. BOX 90417 - 80100
MOMBASA, KENYA

Program & Project Title:
CONSTRUCTION OF WATER DISTRIBUTION
PIPELINES AND SANITATION FACILITIES
IN MOMBASA

CONTRACT No.: CWMDA/AFD/W2/2022

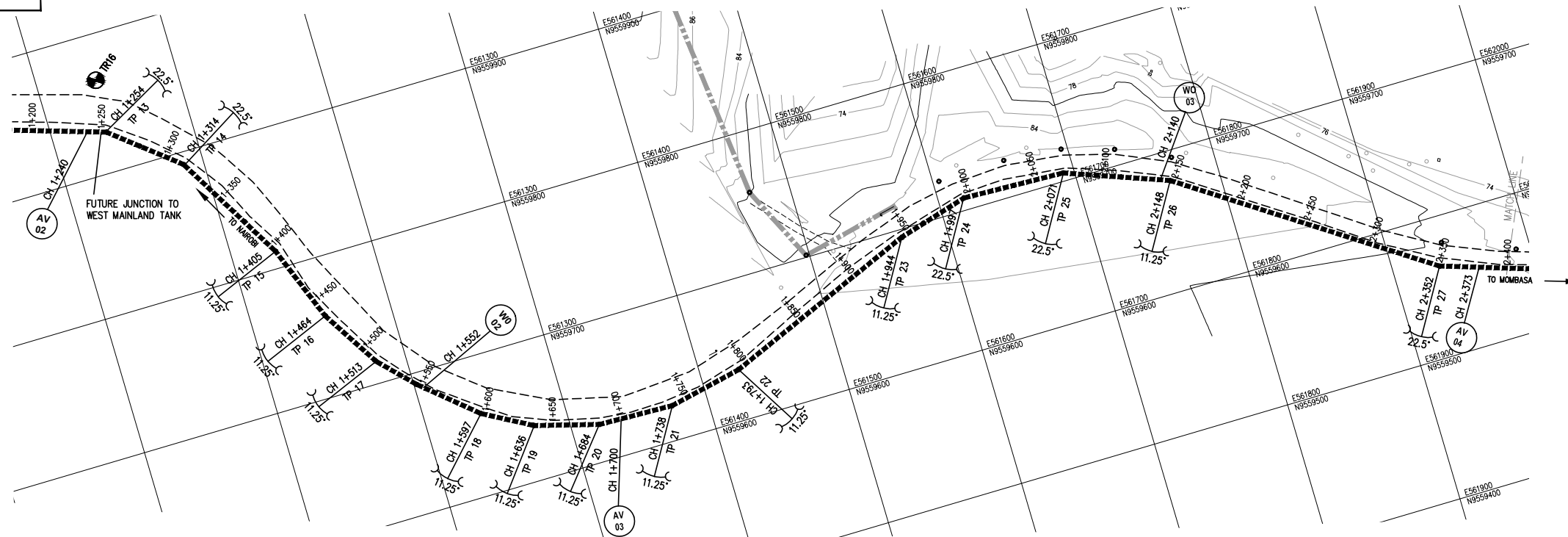
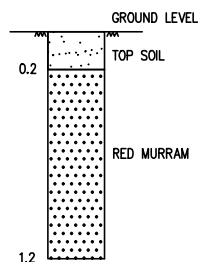
Supervising Consultant:
INGEROP Ingerop East Africa
5th Floor, Devan Plaza
Crossway Road
Westlands
Nairobi.

Drawing Title
WEST MAINLAND - LINE WN05
PLAN AND PROFILE
(CH. 0+000 - CH. 1+200)
SHEET 1 OF 9

Designed by	FNO	Drawn by	BAO
Checked by		Approved by	
Scale	AS SHOWN (A1)	Date	DECEMBER, 2022
Job No.	6000002	ACAD File:	W&S-WM-P-03900
C STATUS	DRAWING No. 6000002-W&S-WM-P-039	C0 REV	

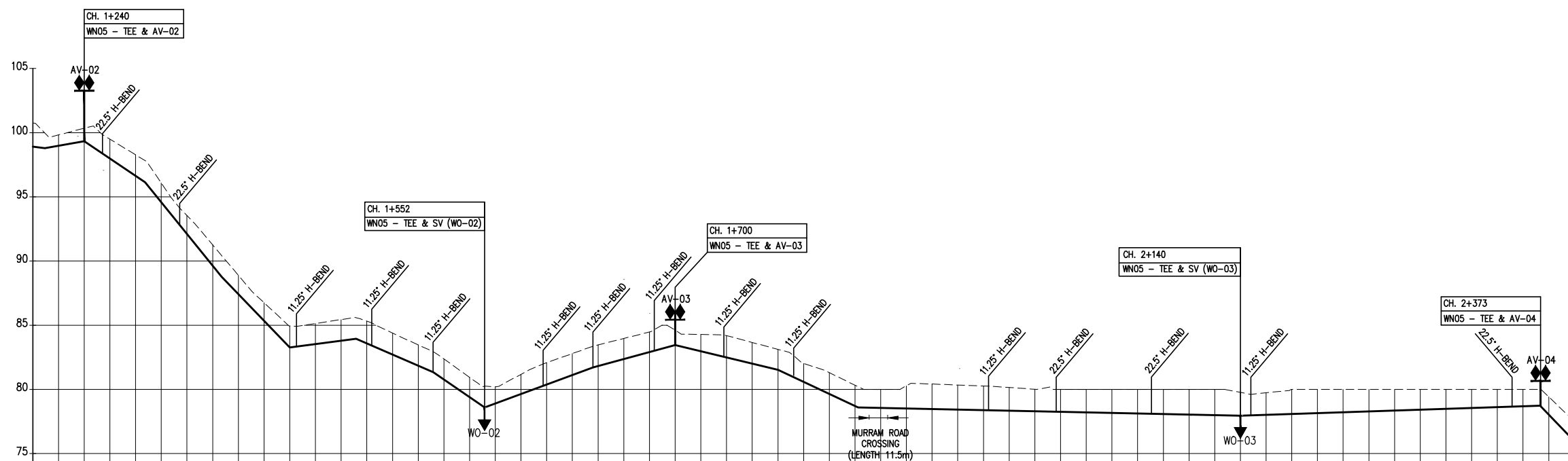
AWAITING FINAL SURVEY

TRIAL HOLE TRI6 DETAILS



PLAN

SCALE 1:2000



DATUM 70.00 (Masl)

TYPE AND SIZE OF PIPE	DN 800 FERROUS PIPE TO PN 16										DN 700 FERROUS PIPE TO PN 16																			
GEOLOGICAL CONDITION	MURRAM																													
EXISTING GROUND LEVEL (m)	98.90	98.92	99.34	99.49	99.64	99.68	99.72	99.76	99.80	99.84	99.88	99.92	99.96	100.00	100.04	100.08	100.12	100.16	100.20	100.24	100.28	100.32	100.36	100.40	100.44	100.48	100.52	100.56	100.60	
INVERT LEVELS (m)	1.86	0.84	1.00	1.50	1.63	1.49	1.42	1.62	1.46	1.41	1.69	1.61	1.65	1.73	1.67	1.62	1.61	1.55	1.30	1.54	1.58	1.71	1.68	1.65	1.59	1.42	1.65	1.62	1.44	1.76
CHAINAGES (M)	11200	11220	11240	11260	11280	11300	11320	11340	11360	11380	11400	11420	11440	11460	11480	11500	11520	11540	11560	11580	11600	11620	11640	11660	11680	11700	11720	11740	11760	11780
DEPTH OF INVERT (m)	1.86	0.84	1.00	1.50	1.63	1.49	1.42	1.62	1.46	1.41	1.69	1.61	1.65	1.73	1.67	1.62	1.61	1.55	1.30	1.54	1.58	1.71	1.68	1.65	1.59	1.42	1.65	1.62	1.44	1.76
SLOPE OF PIPE (%)	-1.78%	-6.74%	-12.37%	-10.41%	1.33%	-4.35%	-6.89%	3.69%	2.73%	-2.40%	-4.70%	-0.22%	0.34%	-10.40%																
REFERENCE PEG No.	TP 13	TP 14	TP 15	TP 16	TP 17	TP 18	TP 19	TP 20	TP 21	TP 22	TP 23	TP 24	TP 25	TP 26	TP 27															

LONGITUDINAL PROFILE

SCALE H 1:2000, V 1:200

NOTES

1. CONTOUR LEVELS ARE IN METERS AT ONE METER INTERVALS
2. GRID VALUES ARE IN METERS AT 100 METER INTERVALS
3. GEOLOGICAL CONDITIONS INDICATED ON DRAWING ARE FOR GENERAL GUIDANCE ONLY
4. MINIMUM PIPELINE SLOPES TO BE 1:500
5. DRAWING TO BE READ IN CONJUNCTION WITH STANDARD DRAWINGS
6. ALL PIPE FITTINGS TO BE CONFIRMED ON SITE DURING SETTING OUT

LEGEND:

- ROAD (TARMAC)
- ROAD / FOOTPATH / TRACK (EARTH / MURRAM)
- FENCE / HEDGE
- CONTOURS, 1m INTERVAL
- ELECTRIC POST
- CULVERT
- GATE
- BUILDINGS
- PROPOSED WATER MAIN
- EXISTING WATER MAIN
- TP10 TRAVERSE POINT & No.
- TREES
- TRIAL HOLE
- HORIZONTAL BEND (H) OR VERTICAL BEND (V) WITH ANGLE INDICATED
- PIPELINE GRADIENT WITH SLOPE DIRECTION (SLOPE MIN. OR 1 IN n)
- PERIMETER WALL
- SV SLUICE VALVE
- FH FIRE HYDRANT
- WO-01 WASHOUT VALVE & No.
- AV-01 COMBINATION AIR VALVE & No.

CONSTRUCTION ISSUE

Signed: SLM/D00

REV	REVISIONS	SIGN	DATE	APPROVED
	BY			
	CHECKED			
	BY			
	CHECKED			
	BY			
	CHECKED			
C0	CONSTRUCTION ISSUE	BY	BAO	DEC,22
		CHECKED		

Project Implementing Agency:
THE CHIEF EXECUTIVE OFFICER
COAST WATER WORKS
DEVELOPMENT AGENCY
P.O. BOX 90417 - 80100
MOMBASA, KENYA

Program & Project Title:
CONSTRUCTION OF WATER DISTRIBUTION
PIPELINES AND SANITATION FACILITIES
IN MOMBASA

CONTRACT No.: CWMDA/AFD/W2/2022

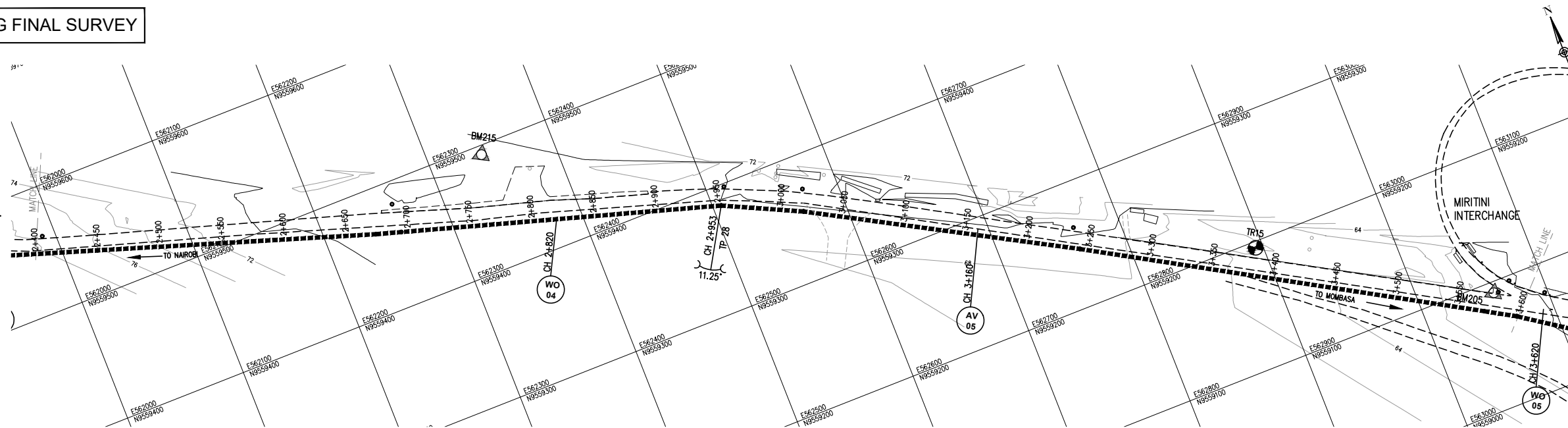
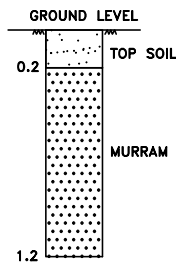
Supervising Consultant:
INGEROP Ingerop East Africa
5th Floor, Devan Plaza
Crossway Road
Westlands
Nairobi.

Drawing Title
WEST MAINLAND - LINE WN05
PLAN AND PROFILE
(CH. 1+200 - CH. 2+400)
SHEET 2 OF 9

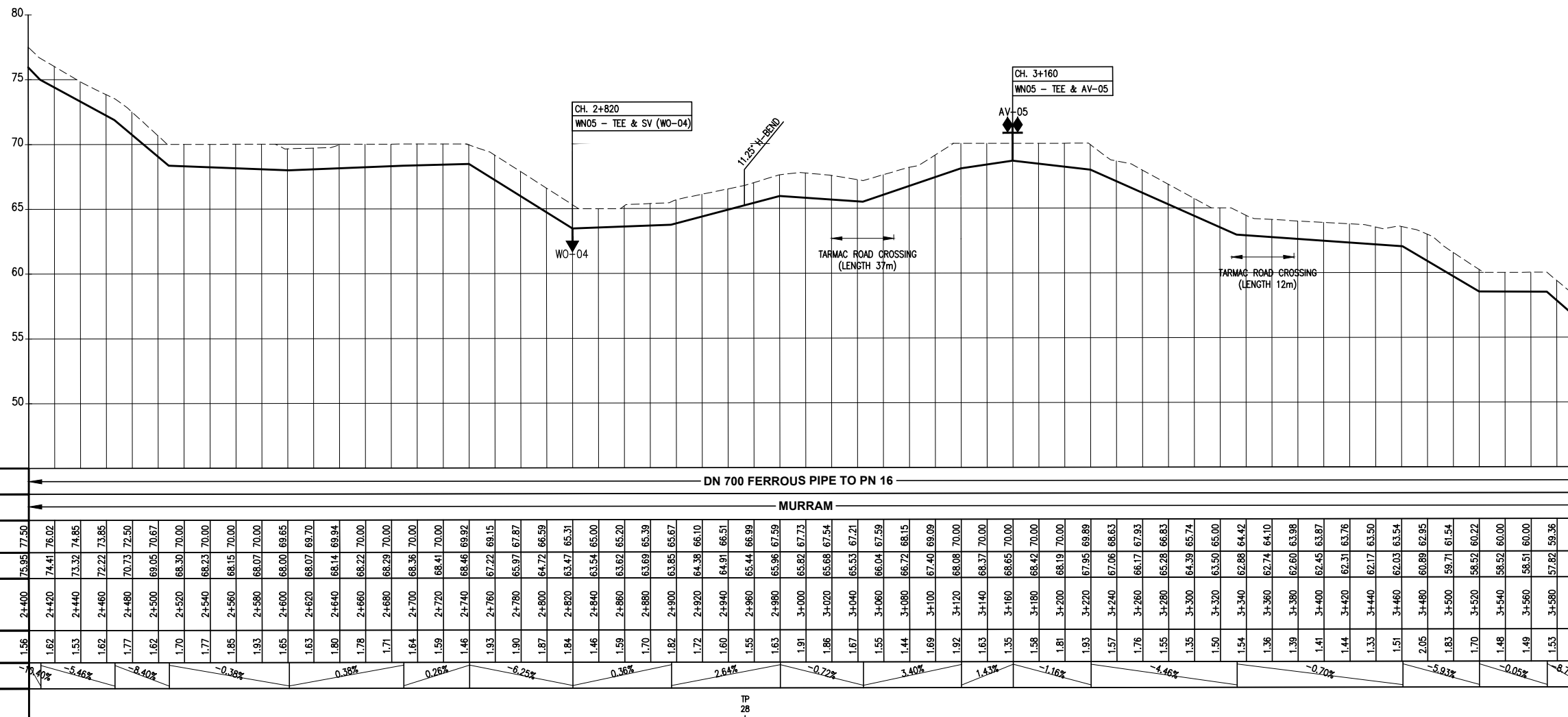
Designed by	FNO	Drawn by	BAO
Checked by		Approved by	
Scale	AS SHOWN (A1)	Date	DECEMBER, 2022
Job No.	6000002	ACAD File:	W&S-WM-P-04000
C STATUS	DRAWING No. 6000002-W&S-WM-P-040	C0 REV	

AWAITING FINAL SURVEY

TRIAL HOLE TR15 DETAILS



PLAN
SCALE 1:2000



DATUM 45.00 (Masl)																				
TYPE AND SIZE OF PIPE	DN 700 FERROUS PIPE TO PN 16																			
GEOLOGICAL CONDITION	MURRAM																			
EXISTING GROUND LEVEL (m)	75.95	77.50	74.41	76.02	73.32	74.85	72.22	73.85	70.73	72.50	69.05	70.67	66.30	70.00	66.23	70.00	68.15	70.00	68.14	69.94
INVERT LEVELS (m)	75.95	77.50	74.41	76.02	73.32	74.85	72.22	73.85	70.73	72.50	69.05	70.67	66.30	70.00	66.23	70.00	68.15	70.00	68.14	69.94
CHAINAGES (M)	2+400	2+420	2+440	2+460	2+480	2+500	2+520	2+540	2+560	2+580	2+600	2+620	2+640	2+660	2+680	2+700	2+720	2+740	2+760	2+780
DEPTH OF INVERT (m)	1.56	1.62	1.53	1.62	1.77	1.62	1.70	1.77	1.85	1.93	1.65	1.63	1.80	1.78	1.71	1.64	1.59	1.46	1.93	1.90
SLOPE OF PIPE (%)	-0.40%	-5.46%	-8.40%	-0.38%	0.38%	0.26%	-6.25%	0.36%	2.64%	-0.72%	3.40%	1.43%	-1.16%	-4.46%	-0.70%	-5.93%	-0.05%	-8.74%		
REFERENCE PEG No.																				

LONGITUDINAL PROFILE
SCALE H 1:2000, V 1:200

NOTES

- CONTOUR LEVELS ARE IN METERS AT ONE METER INTERVALS
- GRID VALUES ARE IN METERS AT 100 METER INTERVALS
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- MINIMUM PIPELINE SLOPES TO BE 1:500
- DRAWING TO BE READ IN CONJUNCTION WITH STANDARD DRAWINGS
- ALL PIPE FITTINGS TO BE CONFIRMED ON SITE DURING SETTING OUT
- THE SURVEY WAS BASED ON THE DATUM BM205 & BM215 WITH THE FOLLOWING COORDINATES AND ELEVATION

BENCHMARK REF No.	COORDINATES		ELEVATION
	EASTING	NORTHING	
BM205	563,059.00	9, 559091.29	60.94
BM215	562,342.21	9, 559,492.76	72.28

LEGEND:

- ROAD (TARMAC)
- ROAD / FOOTPATH / TRACK (EARTH / MURRAM)
- FENCE / HEDGE
- CONTOURS, 1m INTERVAL
- ELECTRIC POST
- CULVERT
- GATE
- BUILDINGS
- PROPOSED WATER MAIN
- EXISTING WATER MAIN
- TRAVERSE POINT & No.
- TREES
- TRIAL HOLE
- HORIZONTAL BEND (H) OR VERTICAL BEND (V) WITH ANGLE INDICATED
- PIPELINE GRADIENT WITH SLOPE DIRECTION (SLOPE MIN. OR 1 IN n)
- PERIMETER WALL
- SLUICE VALVE
- FIRE HYDRANT
- WASHOUT VALVE & No.
- COMBINATION AIR VALVE & No.
- BENCHMARK (CONCRETE WITH IRON)

CONSTRUCTION ISSUE

Signed: SLM/D00

REV	REVISIONS	SIGN	DATE	APPROVED
	BY			
	CHECKED			
	BY			
	CHECKED			
	BY			
	CHECKED			
C0	CONSTRUCTION ISSUE	BY	BAO	DEC.22
		CHECKED		

Project Implementing Agency:
 **THE CHIEF EXECUTIVE OFFICER**
COAST WATER WORKS
DEVELOPMENT AGENCY
P.O. BOX 90417 - 80100
MOMBASA, KENYA

Program & Project Title:
CONSTRUCTION OF WATER DISTRIBUTION
PIPELINES AND SANITATION FACILITIES
IN MOMBASA

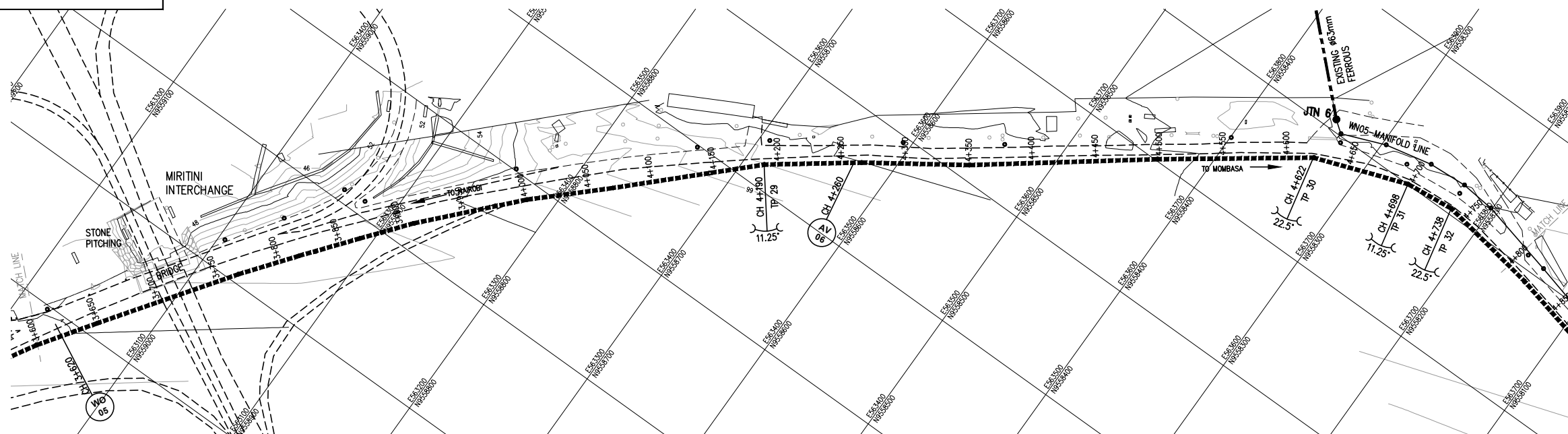
CONTRACT No.: CWMDA/AFD/W2/2022

Supervising Consultant:
 Ingerop East Africa
5th Floor, Devan Plaza
Crossway Road
Westlands
Nairobi.

Drawing Title
WEST MAINLAND - LINE WN05
PLAN AND PROFILE
(CH. 2+400 - CH. 3+600)
SHEET 3 OF 9

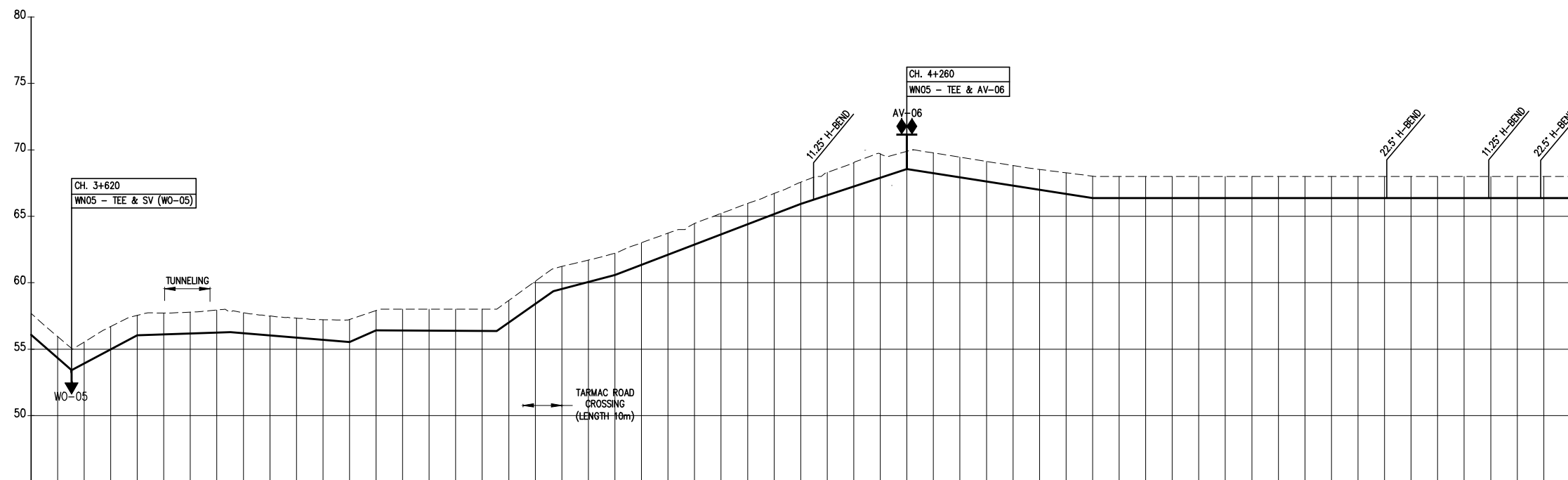
Designed by	FNO	Drawn by	BAO
Checked by		Approved by	
Scale	AS SHOWN (A1)	Date	DECEMBER, 2022
Job No.	6000002	ACAD File:	W&S-WM-P-04100
C STATUS	DRAWING No. 6000002-W&S-WM-P-041	C0 REV	

AWAITING FINAL SURVEY



PLAN

SCALE 1:2000



LONGITUDINAL PROFILE

SCALE H 1:2000, V 1:200

NOTES

- CONTOUR LEVELS ARE IN METERS AT ONE METER INTERVALS
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- CULVERT
- GATE
- BUILDINGS
- PROPOSED WATER MAIN
- EXISTING WATER MAIN
- TP10 TRAVERSE POINT & No.
- TREES
- TRIAL HOLE
- HORIZONTAL BEND (H) OR VERTICAL BEND (V) WITH ANGLE INDICATED
- PIPELINE GRADIENT WITH SLOPE DIRECTION (SLOPE MIN. OR 1 IN n)
- PERIMETER WALL
- SV SLUICE VALVE
- FH FIRE HYDRANT
- WO-01 WASHOUT VALVE & No.
- AV-01 COMBINATION AIR VALVE & No.

CONSTRUCTION ISSUE

Signed: SLM/D00

REV	REVISIONS	SIGN	DATE	APPROVED
	BY			
	CHECKED			
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	CHECKED			
	BY			
	CHECKED			
C0	CONSTRUCTION ISSUE	BY	BAO	DEC,22
	CHECKED			

Project Implementing Agency:
 **THE CHIEF EXECUTIVE OFFICER**
COAST WATER WORKS
DEVELOPMENT AGENCY
P.O. BOX 90417 - 80100
MOMBASA, KENYA

Program & Project Title:
CONSTRUCTION OF WATER DISTRIBUTION
PIPELINES AND SANITATION FACILITIES
IN MOMBASA

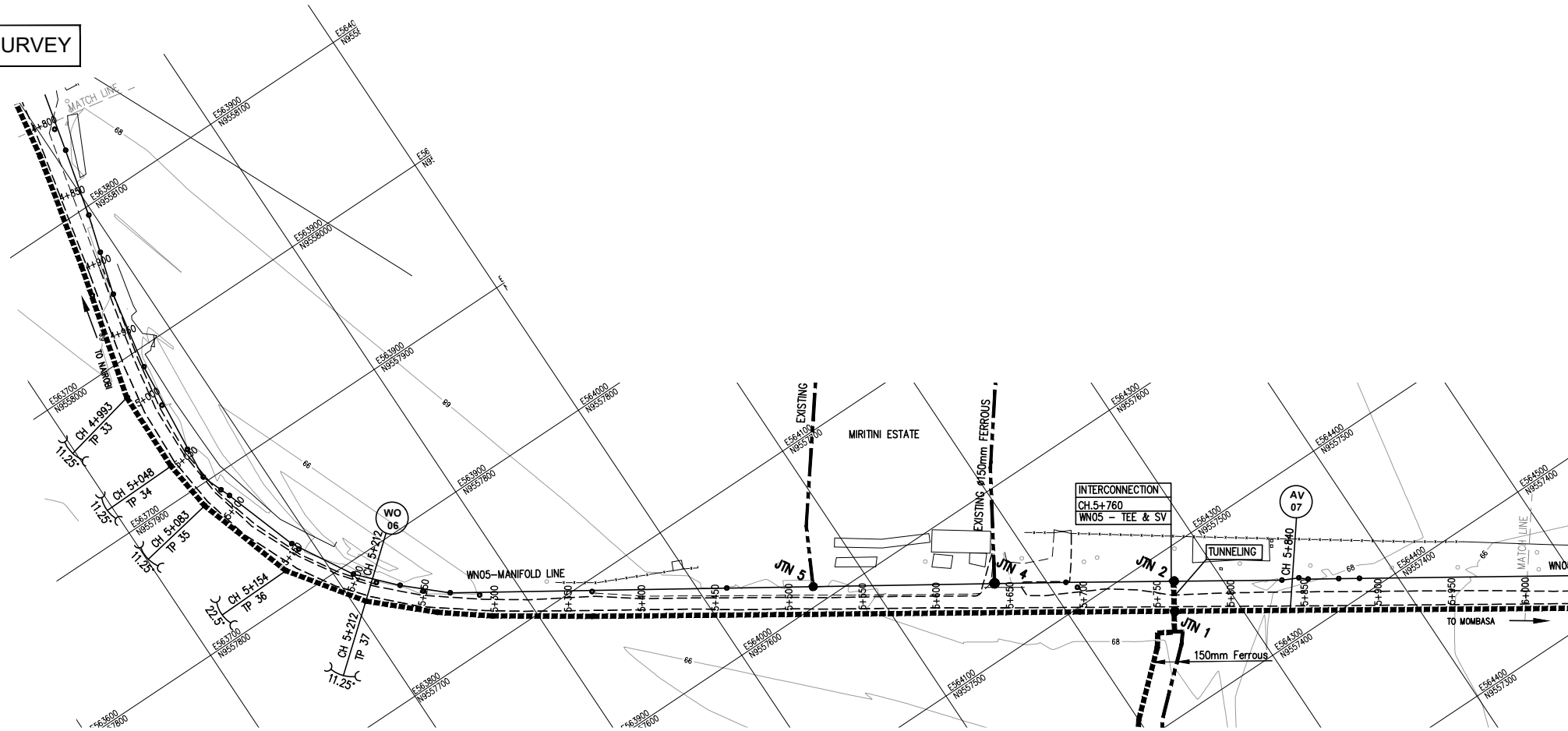
CONTRACT No.: CWMDA/AFD/W2/2022

Supervising Consultant:
 Ingerop East Africa
5th Floor, Devan Plaza
Crossway Road
Westlands
Nairobi.

Drawing Title
WEST MAINLAND - LINE WN05
PLAN AND PROFILE
(CH. 03+600 - CH. 4+800)
SHEET 4 OF 9

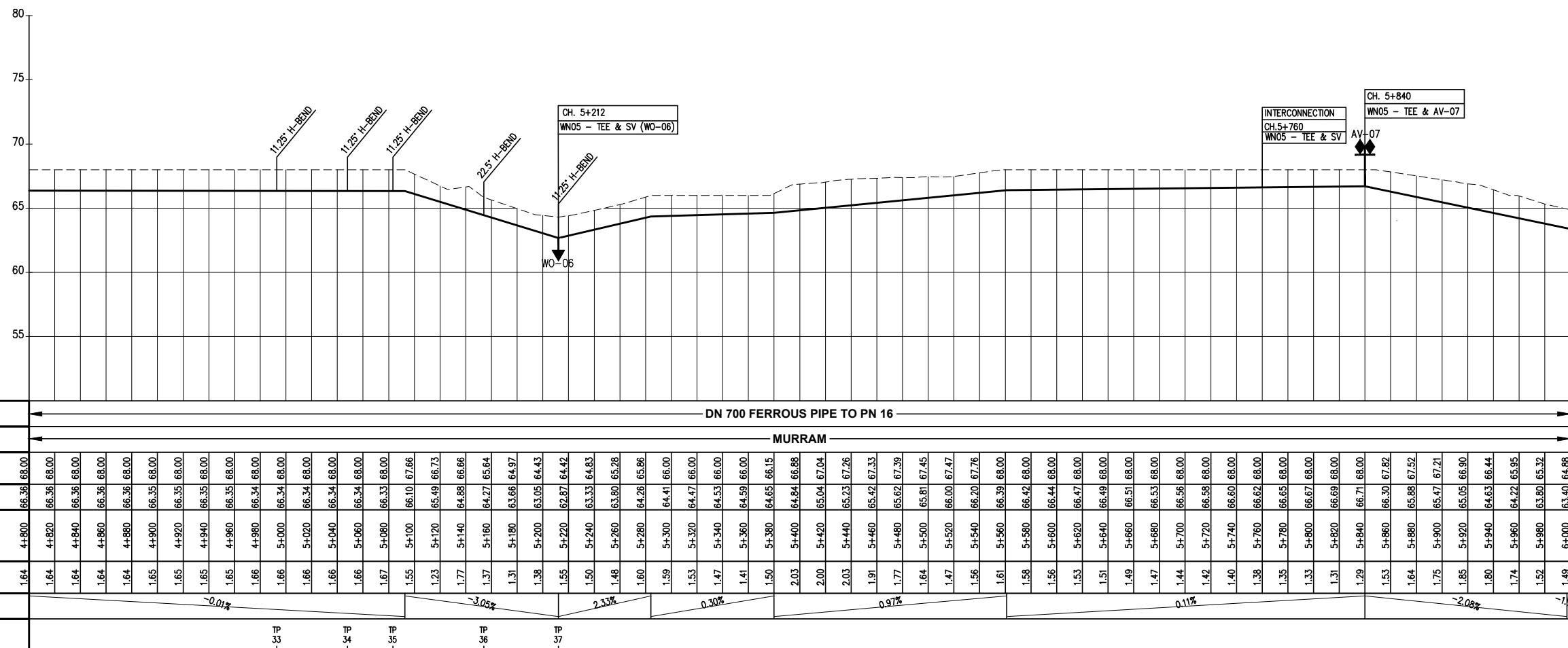
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Checked by		Approved by	
Scale	AS SHOWN (A1)	Date	DECEMBER, 2022
Job No.	6000002	ACAD File:	W&S-WM-P-042C0
C STATUS	DRAWING No. 6000002-W&S-WM-P-042	C0 REV	

AWAITING FINAL SURVEY



PLAN

SCALE 1:2000



LONGITUDINAL PROFILE

SCALE H 1:2000, V 1:200

NOTES

1. CONTOUR LEVELS ARE IN METERS AT ONE METER INTERVALS
2. GRID VALUES ARE IN METERS AT 100 METER INTERVALS
3. GEOLOGICAL CONDITIONS INDICATED ON DRAWING ARE FOR GENERAL GUIDANCE ONLY
4. MINIMUM PIPELINE SLOPES TO BE 1:500
5. DRAWING TO BE READ IN CONJUNCTION WITH STANDARD DRAWINGS
6. ALL PIPE FITTINGS TO BE CONFIRMED ON SITE DURING SETTING OUT

LEGEND:

- ROAD (TARMAC)
- ROAD / FOOTPATH / TRACK (EARTH / MURRAM)
- FENCE / HEDGE
- CONTOURS, 1m INTERVAL
- ELECTRIC POST
- CULVERT
- GATE
- BUILDINGS
- PROPOSED WATER MAIN
- EXISTING WATER MAIN
- TP10 TRAVERSE POINT & No.
- TREES
- TRIAL HOLE
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- PERIMETER WALL
- SV SLUICE VALVE
- FH FIRE HYDRANT
- WO-01 WASHOUT VALVE & No.
- AV-01 COMBINATION AIR VALVE & No.

CONSTRUCTION ISSUE

Signed: SLM/D00

REV	REVISIONS	SIGN	DATE	APPROVED
	BY			
	CHECKED			
	BY			
	CHECKED			
	BY			
	CHECKED			
C0	CONSTRUCTION ISSUE	BY	BAO	DEC,22
		CHECKED		

Project Implementing Agency:
 **THE CHIEF EXECUTIVE OFFICER**
COAST WATER WORKS
DEVELOPMENT AGENCY
P.O. BOX 90417 - 80100
MOMBASA, KENYA

Program & Project Title:
CONSTRUCTION OF WATER DISTRIBUTION
PIPELINES AND SANITATION FACILITIES
IN MOMBASA

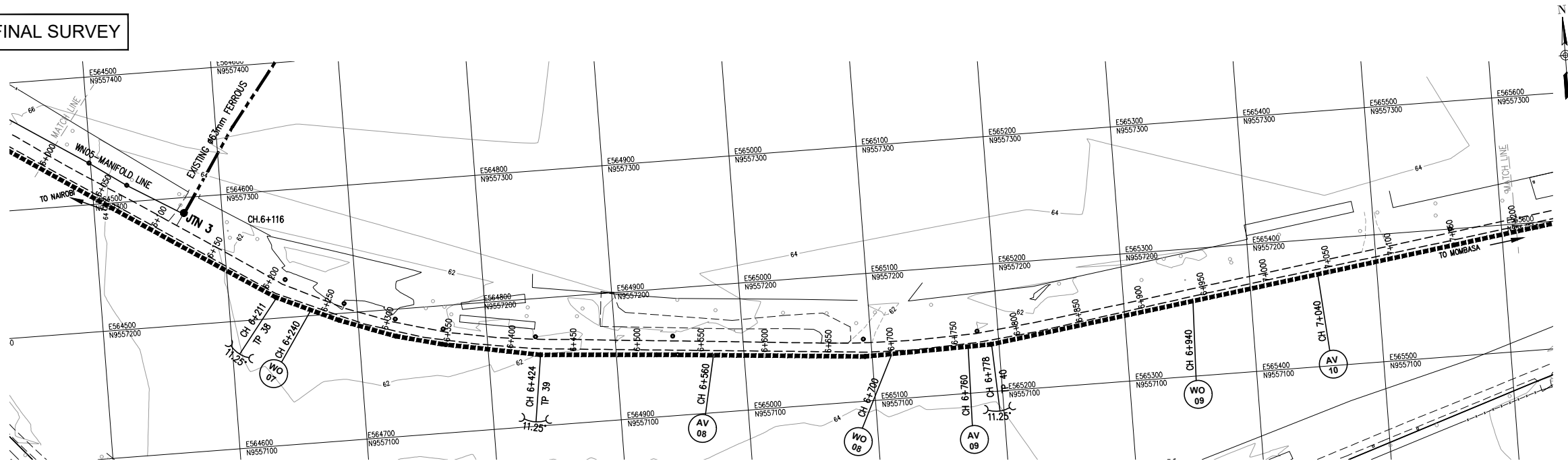
CONTRACT No.: CWMDA/AFD/W2/2022

Supervising Consultant:
 Ingerop East Africa
5th Floor, Devan Plaza
Crossway Road
Westlands
Nairobi.

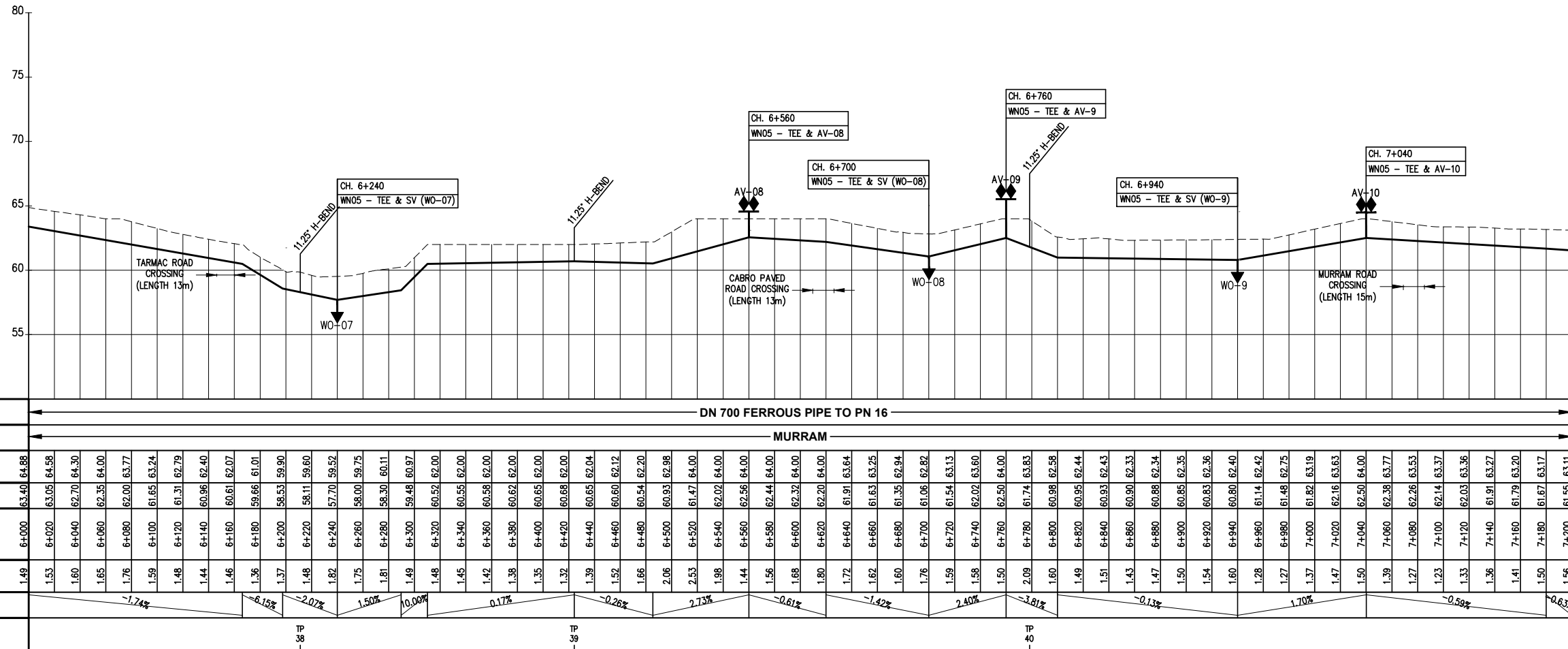
Drawing Title
WEST MAINLAND - LINE WN05
PLAN AND PROFILE
(CH. 4+800 - CH. 6+000)
SHEET 5 OF 9

Designed by	FNO	Drawn by	BAO
Checked by		Approved by	
Scale	AS SHOWN (A1)	Date	DECEMBER, 2022
Job No.	6000002	ACAD File:	W&S-WM-P-04300
C STATUS	DRAWING No. 6000002-W&S-WM-P-043	C0 REV	

AWAITING FINAL SURVEY



PLAN
SCALE 1:2000



LONGITUDINAL PROFILE
SCALE H 1:2000, V 1:200

NOTES

- CONTOUR LEVELS ARE IN METERS AT ONE METER INTERVALS
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LEGEND:

- ROAD (TARMAC)
- ROAD / FOOTPATH / TRACK (EARTH / MURRAM)
- FENCE / HEDGE
- CONTOURS, 1m INTERVAL
- ELECTRIC POST
- CULVERT
- GATE
- BUILDINGS
- PROPOSED WATER MAIN
- EXISTING WATER MAIN
- TP10 TRAVERSE POINT & No.
- TREES
- TRIAL HOLE
- HORIZONTAL BEND (H) OR VERTICAL BEND (V) WITH ANGLE INDICATED
- PIPELINE GRADIENT WITH SLOPE DIRECTION (SLOPE MIN. OR 1 IN n)
- PERIMETER WALL
- SV SLUICE VALVE
- FH FIRE HYDRANT
- WO-01 WASHOUT VALVE & No.
- AV-01 COMBINATION AIR VALVE & No.

CONSTRUCTION ISSUE

Signed: SLM/D00

REV	REVISIONS	SIGN	DATE	APPROVED
	BY			
	CHECKED			
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	CHECKED			
	BY			
	CHECKED			
C0	CONSTRUCTION ISSUE	BY	BAO	DEC,22
		CHECKED		

Project Implementing Agency:
 THE CHIEF EXECUTIVE OFFICER
COAST WATER WORKS
DEVELOPMENT AGENCY
P.O. BOX 90417 - 80100
MOMBASA, KENYA

Program & Project Title:
**CONSTRUCTION OF WATER DISTRIBUTION
PIPELINES AND SANITATION FACILITIES
IN MOMBASA**

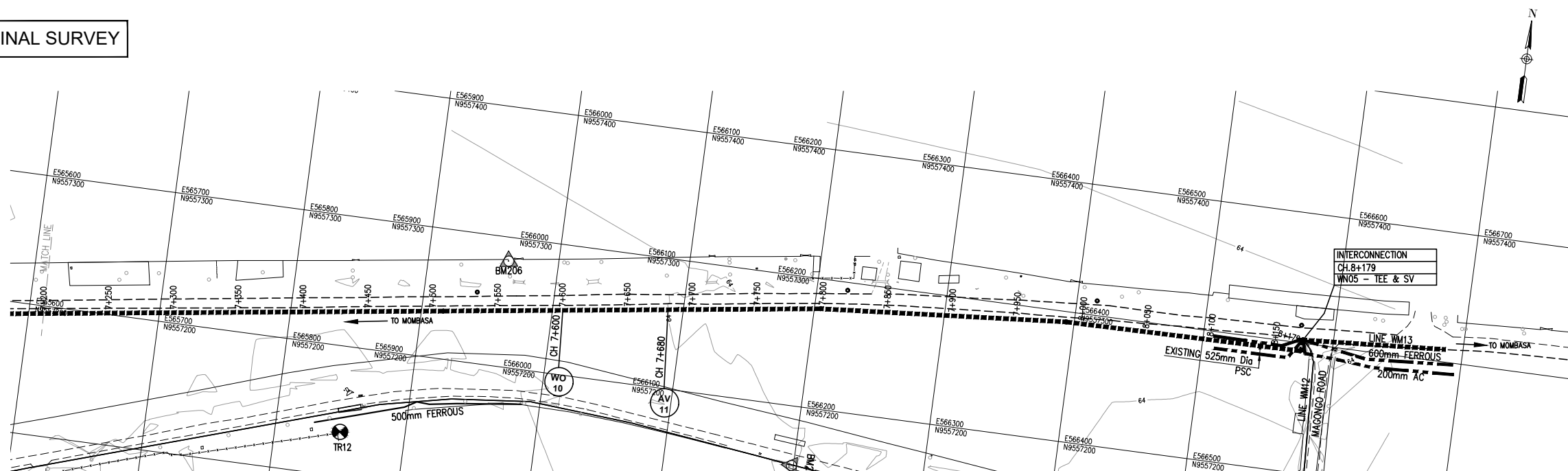
CONTRACT No.: CWMDA/AFD/W2/2022

Supervising Consultant:
 Ingerop East Africa
5th Floor, Devan Plaza
Crossway Road
Westlands
Nairobi.

Drawing Title
**WEST MAINLAND - LINE WN05
PLAN AND PROFILE
(CH. 6+000 - CH. 7+200)
SHEET 6 OF 9**

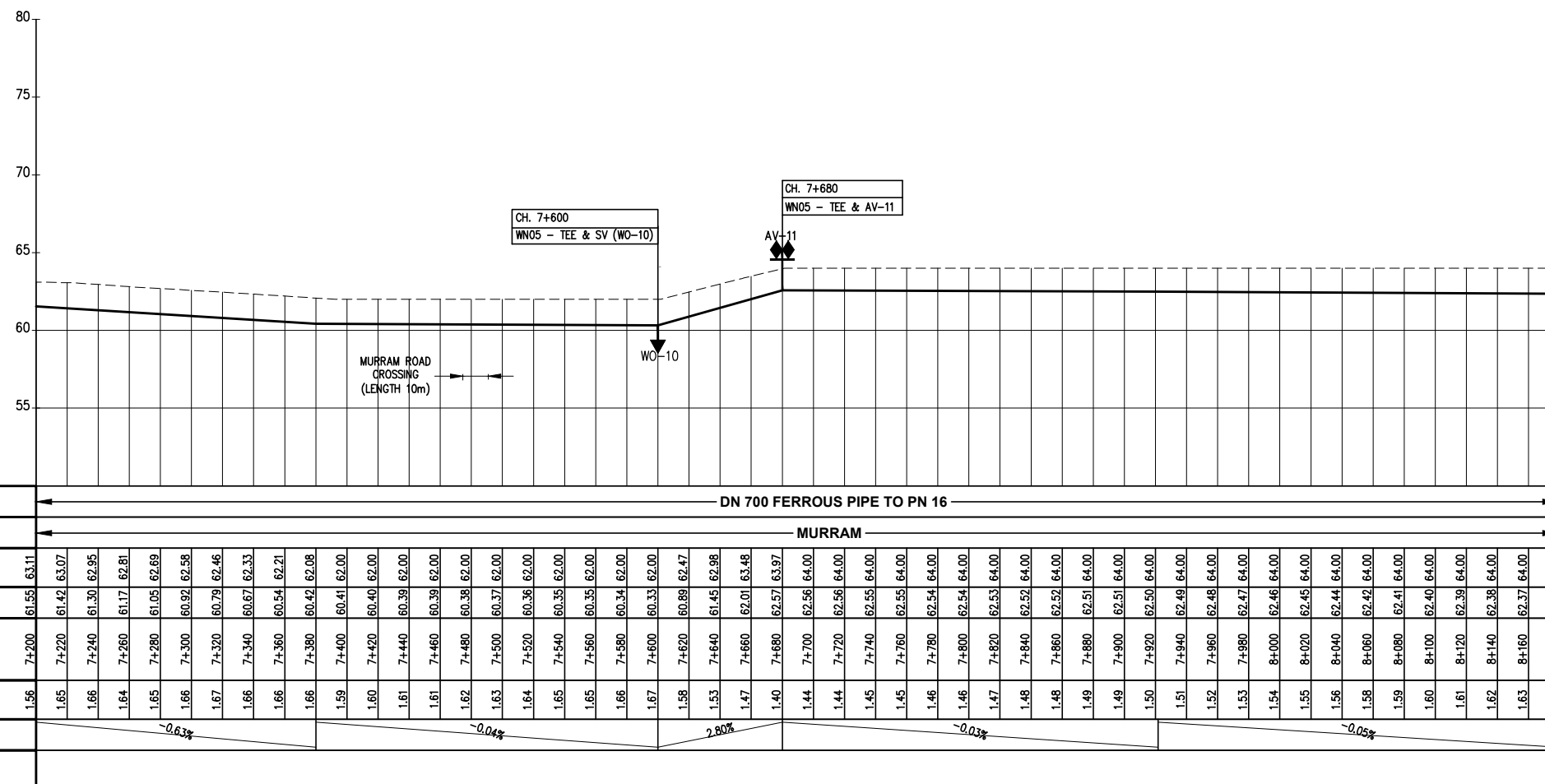
Designed by	FNO	Drawn by	BAO
Checked by		Approved by	
Scale	AS SHOWN (A1)	Date	DECEMBER, 2022
Job No.	6000002	ACAD File:	W&S-WM-P-044C0
C STATUS	DRAWING No. 6000002-W&S-WM-P-044	C0 REV	

AWAITING FINAL SURVEY



PLAN

SCALE 1:2000



LONGITUDINAL PROFILE

SCALE H 1:2000, V 1:200

NOTES

- CONTOUR LEVELS ARE IN METERS AT ONE METER INTERVALS
- GRID VALUES ARE IN METERS AT 100 METER INTERVALS
- GEOLOGICAL CONDITIONS INDICATED ON DRAWING ARE FOR GENERAL GUIDANCE ONLY
- MINIMUM PIPELINE SLOPES TO BE 1:500
- DRAWING TO BE READ IN CONJUNCTION WITH STANDARD DRAWINGS
- ALL PIPE FITTINGS TO BE CONFIRMED ON SITE DURING SETTING OUT
- THE SURVEY WAS BASED ON THE DATUM BM206 WITH THE FOLLOWING COORDINATES AND ELEVATION

BENCHMARK REF No.	COORDINATES		
	EASTING	NORTHING	ELEVATION
BM206	565,961.29	9,557,281.75	62.86

LEGEND:

---	ROAD (TARMAC)
---	ROAD / FOOTPATH / TRACK (EARTH / MURRAM)
---	FENCE / HEDGE
---	CONTOURS, 1m INTERVAL
---	ELECTRIC POST
---	CULVERT
---	GATE
---	BUILDINGS
---	PROPOSED WATER MAIN
---	EXISTING WATER MAIN
---	TRAVERSE POINT & No.
---	TREES
---	TRIAL HOLE
---	HORIZONTAL BEND (H) OR VERTICAL BEND (V) WITH ANGLE INDICATED
---	PIPELINE GRADIENT WITH SLOPE DIRECTION (SLOPE MIN. OR 1 IN n)
---	PERIMETER WALL
---	SLUICE VALVE
---	FIRE HYDRANT
---	WASHOUT VALVE & No.
---	COMBINATION AIR VALVE & No.
---	BENCHMARK (CONCRETE WITH IRON)

CONSTRUCTION ISSUE

Signed: SLM/D00

REV	REVISIONS		SIGN	DATE	APPROVED
	BY	CHECKED			
	BY	CHECKED			
	BY	CHECKED			
	BY	CHECKED			
C0	CONSTRUCTION ISSUE	BY	BAO	DEC,22	

Project Implementing Agency:
 **THE CHIEF EXECUTIVE OFFICER**
COAST WATER WORKS DEVELOPMENT AGENCY
P.O. BOX 90417 - 80100
MOMBASA, KENYA

Program & Project Title:
CONSTRUCTION OF WATER DISTRIBUTION PIPELINES AND SANITATION FACILITIES IN MOMBASA

CONTRACT No.: CWMDA/AFD/W2/2022

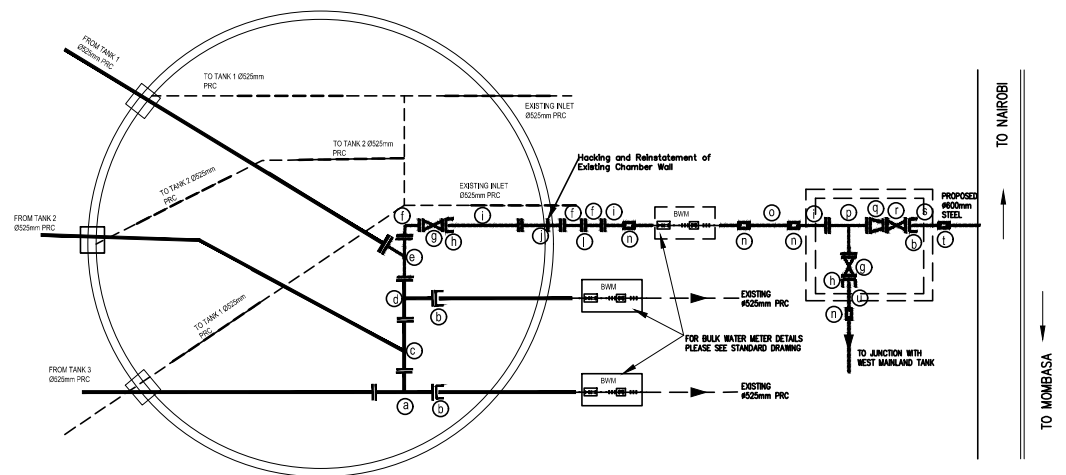
Supervising Consultant:
 Ingerop East Africa
5th Floor, Devan Plaza
Crossway Road
Westlands
Nairobi.

Drawing Title
WEST MAINLAND -- LINE WN05
PLAN AND PROFILE
(CH. 7+200 -- CH. 8+179)
SHEET 7 OF 9

Designed by	FNO	Drawn by	BAO
Checked by		Approved by	
Scale	AS SHOWN (A1)	Date	DECEMBER, 2022
Job No.	6000002	ACAD File:	W&S-WM-P-045C0
C STATUS	DRAWING No. 6000002-W&S-WM-P-045	C0 REV	

DETAIL

EXTENDED OUTLET FOR WN05 - FROM RESERVOIRS

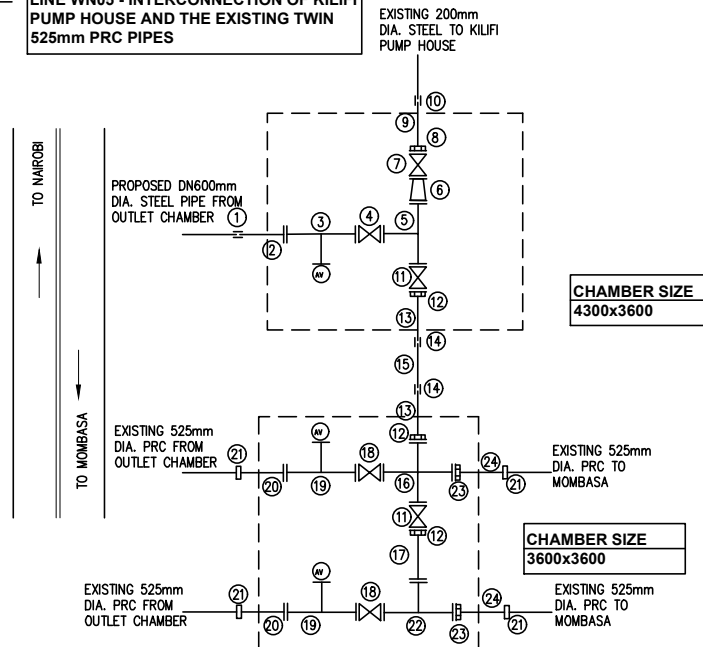


DESCRIPTION

- (a) 1 No. 600x800mm FLANGED TEE
- (b) 3 Nos. 600mm DIA. FLANGE ADAPTOR
- (c) 1 No. 800x600mm SPECIAL FLANGED TEE
- (d) 1 No. 800x600mm FLANGED TEE
- (e) 1 No. 800x600mm SPECIAL FLANGED TEE
- (f) 3 Nos. 800mm DIA. FLANGED LONG BEND
- (g) 2 Nos. 800mm DIA. SLUICE VALVE PN10
- (h) 2 Nos. 800mm DIA. FLANGE ADAPTOR
- (i) 3 Nos. 800mm DIA. SINGLE FLANGED PIPE PIECE 1.2m LONG
- (j) 1 No. 800mm DIA. DOUBLE FLANGED PIPE PIECE WITH A PUDDLE FLANGE 1.2m LONG
- (k) 1 No. 800mm DIA. DOUBLE FLANGED PIPE PIECE (LENGTH D.O.S : APPROX 2.5m)
- (l) 4 Nos. 800mm DIA. COUPLING
- (m) 1 No. 800mm DIA. PIPELINE SPIGOT & SOCKET STEEL 200m LONG
- (n) 1 No. 800mm FLANGED EQUAL TEE
- (o) 1 No. 800x600mm DIA. ALL FLANGED REDUCER
- (p) 1 No. 600mm DIA. SLUICE VALVE PN10
- (q) 1 No. 600mm DIA. PLAIN ENDED PIPE WITH PUDDLE FLANGE
- (r) 1 No. 600mm DIA. COUPLING
- (s) 1 No. 800mm DIA. PLAIN ENDED PIPE WITH PUDDLE FLANGE

DETAIL

**CH. 0+197
LINE WN05 - INTERCONNECTION OF KILIFI
PUMP HOUSE AND THE EXISTING TWIN
525mm PRC PIPES**

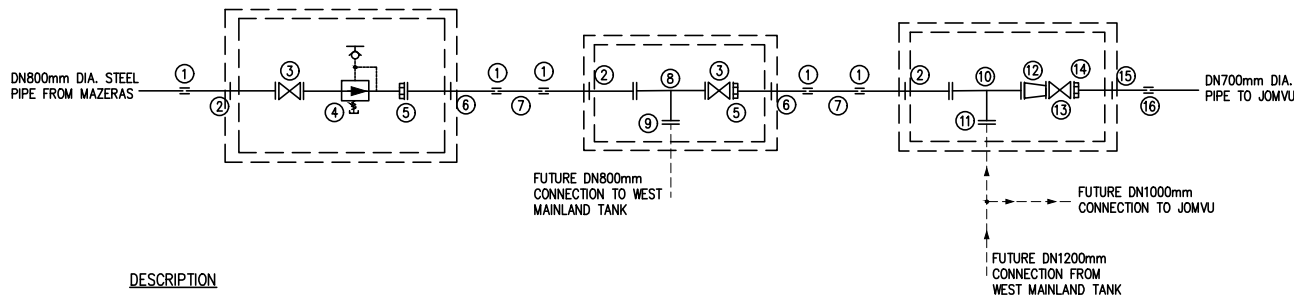


DESCRIPTION

- (1) 1 No. DN600mm DIA. COUPLING
- (2) 1 No. DN600mm DIA. SINGLE FLANGED PIPE PIECE WITH A PUDDLE FLANGE 1.2m LONG
- (3) 1 No. DN600x80mm DIA. ALL FLANGED AIR VALVE TEE
- (4) 1 No. DN600mm DIA. FLANGED SLUICE VALVE PN10
- (5) 1 No. DN600x400mm DIA. FLANGED TEE
- (6) 1 No. DN400x200mm DIA. ALL FLANGED CONCENTRIC TAPER
- (7) 1 No. 200mm DIA. PN10 SLUICE VALVE
- (8) 1 No. 200mm DIA. FLANGED ADAPTOR
- (9) 1 No. 200mm DIA. PLAIN ENDED PIPE PIECE WITH PUDDLE FLANGE 1.2m LONG
- (10) 1 No. 200mm DIA. STRAIGHT COUPLING
- (11) 2 Nos. 400mm DIA. SLUICE VALVE PN10
- (12) 3 Nos. 400mm DIA. FLANGED ADAPTOR
- (13) 2 Nos. 400mm DIA. 1.2m LONG, SINGLE FLANGED STEEL PIPE LONG WITH PUDDLE FLANGE
- (14) 2 Nos. 400mm DIA. COUPLING
- (15) 1 No. 400mm DIA. PLAIN STEEL PIPE PIECE (3m BUT DETERMINED ON SITE)
- (16) 1 No. 600x400mm DIA. FLANGED CROSS TEE
- (17) 1 No. 400mm DIA. 1.2m LONG, SINGLE FLANGED STEEL PIPE
- (18) 2 Nos. 600mm DIA. PN10 FLANGED SLUICE VALVE
- (19) 2 Nos. 600x80mm DIA. ALL FLANGED AIR VALVE TEE
- (20) 2 Nos. 2.4m LONG 600mm DIA. SINGLE FLANGED PIPE PIECE WITH A PUDDLE FLANGE
- (21) 4 Nos. 600/525mm DIA. STEPPED COUPLINGS
- (22) 1 No. 600x400mm DIA. FLANGED TEE
- (23) 2 Nos. 600mm DIA. FLANGED ADAPTOR
- (24) 2 Nos. 600mm DIA. PLAIN STEEL PIPE PIECE WITH PUDDLE FLANGE

DETAIL

CH. 1+250 JUNCTION

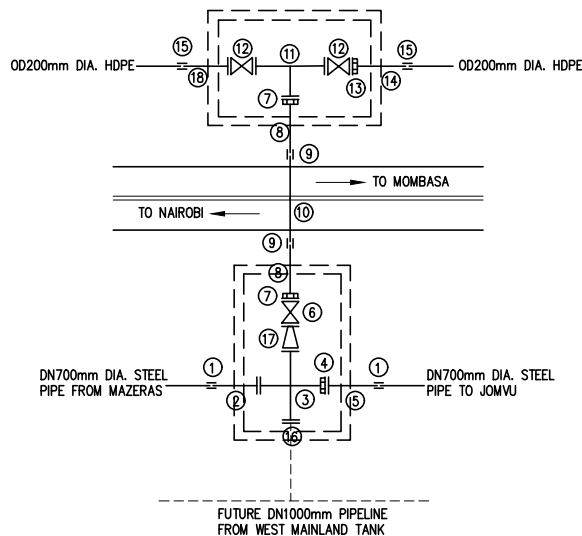


DESCRIPTION

- (1) 5 Nos. DN800mm DIA. COUPLING
- (2) 3 Nos. DN800mm DIA. SINGLE FLANGED PIPE PIECE WITH A PUDDLE FLANGE 1.2m LONG
- (3) 2 Nos. DN800mm DIA. SLUICE VALVE PN16
- (4) 1 No. DN800mm DIA. PRESSURE REDUCING VALVE PN16
- (5) 2 Nos. DN800mm DIA. FLANGE ADAPTOR
- (6) 2 Nos. DN800mm DIA. PLAIN ENDED PIPE PIECE WITH A PUDDLE FLANGE 1.2m LONG
- (7) 2 Nos. DN800mm DIA. PLAIN ENDED PIPE PIECE 1.2m LONG
- (8) 1 No. DN800mm DIA. ALL FLANGED EQUAL TEE
- (9) 1 No. DN800mm DIA. BLANK FLANGE
- (10) 1 No. DN1200x800mm DIA. ALL FLANGED REDUCING TEE
- (11) 1 No. DN1200mm DIA. BLANK FLANGE
- (12) 1 No. DN800x700mm DIA. ALL FLANGED REDUCER
- (13) 1 No. DN700mm DIA. SLUICE VALVE PN16
- (14) 1 No. DN700mm DIA. FLANGE ADAPTOR
- (15) 1 No. DN700mm DIA. PLAIN ENDED PIPE PIECE WITH A PUDDLE FLANGE 1.2m LONG
- (16) 1 No. DN700mm DIA. COUPLING

DETAIL

JUNCTION 1 & 2



DESCRIPTION

- (1) 2 Nos. DN700mm DIA. COUPLING
- (2) 1 No. DN700mm DIA. SINGLE FLANGED PIPE PIECE WITH A PUDDLE FLANGE 1.2m LONG
- (3) 1 No. DN1000x700mm DIA. ALL FLANGED SPECIAL CROSS TEE
- (4) 1 No. DN700mm DIA. FLANGE ADAPTOR
- (5) 1 No. DN700mm DIA. PLAIN ENDED PIPE PIECE WITH A PUDDLE FLANGE 1.2m LONG
- (6) 1 No. DN300mm DIA. SLUICE VALVE PN16
- (7) 2 Nos. DN300mm DIA. FLANGE ADAPTOR
- (8) 2 Nos. DN300mm DIA. PLAIN ENDED PIPE PIECE WITH A PUDDLE FLANGE 1.2m LONG
- (9) 2 Nos. DN300mm DIA. COUPLING
- (10) 1 No. DN300mm DIA. INSIDE DN350mm STEEL SLEEVE TUNNELED UNDER MSA-NBI HIGHWAY (60m)
- (11) 1 No. DN300x200x200mm DIA. SPECIAL FLANGED TEE
- (12) 2 Nos. DN200mm DIA. SLUICE VALVE PN10
- (13) 1 No. DN200mm DIA. FLANGE ADAPTOR
- (14) 1 No. DN200mm DIA. PLAIN ENDED PIPE PIECE WITH A PUDDLE FLANGE 1.2m LONG
- (15) 2 Nos. DN200mm DIA. COUPLING
- (16) 1 No. DN1000mm DIA. BLANK FLANGE
- (17) 1 No. DN1000x300mm DIA. SPECIAL FLANGE REDUCER
- (18) 1 No. DN200mm DIA. SINGLE FLANGED PIPE PIECE WITH A PUDDLE FLANGE 1.2m LONG

NOTES

1. ALL PIPE FITTINGS TO BE CONFIRMED ON SITE DURING SETTING OUT.
2. DRAWINGS TO BE READ IN CONJUNCTION WITH STANDARD DRAWINGS.
3. FH, WO AND AV IN THE STANDARD DRAWINGS.

LEGEND:

- SV SLUICE VALVE
- FH FIRE HYDRANT
- WO-01 WASHOUT VALVE & No.
- AV-01 COMBINATION AIR VALVE & No.
- WM WATER METER
- [] PROPOSED CONCRETE CHAMBER

CONSTRUCTION ISSUE

Signed: SLM/D00

REV	REVISIONS		SIGN	DATE	APPROVED
		BY			
		CHECKED			
		BY			
		CHECKED			
		BY			
		CHECKED			
C0	CONSTRUCTION ISSUE	BY	BAO	DEC,22	
		CHECKED			

Project Implementing Agency:
 **THE CHIEF EXECUTIVE OFFICER
COAST WATER WORKS
DEVELOPMENT AGENCY**
P.O. BOX 90417 - 80100
MOMBASA, KENYA

Program & Project Title.
**CONSTRUCTION OF WATER DISTRIBUTION
PIPELINES AND SANITATION FACILITIES
IN MOMBASA**

CONTRACT No.: CWMDA/AFD/W2/2022

Supervising Consultant.
 Ingerop East Africa
5th Floor, Devan Plaza
Crossway Road
Westlands
Nairobi.

Drawing Title
**WEST MAINLAND – LINE WN05
PIPE FITTING DETAILS
SHEET 8 OF 9**

Designed by	FNO	Drawn by	BAO
Checked by		Approved by	
Scale	AS SHOWN (A1)	Date	DECEMBER, 2022
Job No.	6000002	ACAD File:	W&S-WM-P-046C0
C STATUS	DRAWING No. 6000002-W&S-WM-P-046	C0 REV	

DETAIL CH. 8+179
LINE WN05 - JOMVU

TO NAIROBI

TO MOMBASA

MAGONGO ROAD

EXISTING 525mm
DIA. PRC FROM
MAZERAS

EXISTING 525mm
DIA. PRC FROM
MAZERAS

EXISTING 525mm DIA.
PRC TO CHANGAMWE
VIA NAIROBI ROAD

EXISTING 525mm DIA.
PRC TO CHANGAMWE
VIA MAGONGO ROAD

DN700mm DIA.
STEEL PIPE FROM
MAZERAS

FUTURE Ø1000mm
PIPELINE FROM WEST
MAINLAND TANKS

FUTURE DN700mm
DIA. EXPRESS LINE

EXISTING Ø200mm
uPVC NAIROBI ROAD

PROPOSED WM13 EXTENSION
Ø160mm HDPE NAIROBI ROAD

PROPOSED WM12
Ø200mm HDPE PIPE

DESCRIPTION

- 1 6 Nos. DN600mm DIA. COUPLING
- 2 4 Nos. DN600mm DIA. SINGLE FLANGED PIPE PIECE WITH A PUDDLE FLANGE 1.2m LONG
- 3 2 Nos. DN600x50mm DIA. ALL FLANGED AIR VALVE TEE
- 4 6 Nos. DN600mm DIA. SLUICE VALVE PN10
- 5 1 No. DN600x600mm DIA. FLANGED TEE
- 6 1 No. DN600x600mm DIA. ALL FLANGED CROSS TEE
- 7 4 Nos. DN600mm DIA. FLANGED ADAPTOR
- 8 3 Nos. DN600mm DIA. PLAIN ENDED PIPE PIECE WITH PUDDLE FLANGE 1.2m LONG
- 9 1 No. DN600mm DIA. PLAIN ENDED PIPE PIECE
- 10 1 No. DN700x600mm DIA. ALL FLANGED CONCENTRIC TAPER
- 11 1 No. DN700x700mm DIA. ALL FLANGED CROSS TEE
- 12 1 No. DN700x50mm DIA. ALL FLANGED AIR VALVE TEE
- 13 1 No. DN700mm DIA. SINGLE FLANGED PIPE PIECE WITH A PUDDLE FLANGE 1.2m LONG
- 14 1 No. DN700mm DIA. COUPLING
- 15 1 No. DN700mm DIA. BLANK FLANGE
- 16 1 No. DN700mm DIA. SLUICE VALVE PN10
- 17 1 No. DN1000x700mm DIA. ALL FLANGED CONCENTRIC TAPER
- 18 1 No. DN1000x1000mm DIA. FLANGED CROSS TEE
- 19 1 No. DN1000mm DIA. BLANK FLANGE
- 20 2 Nos. DN1000x500mm DIA. ALL FLANGED CONCENTRIC TAPER
- 21 2 Nos. DN500mm DIA. FLANGED ADAPTOR
- 22 2 Nos. DN500mm DIA. PLAIN ENDED PIPE PIECE WITH PUDDLE FLANGE 1.2m LONG
- 23 4 Nos. DN500mm DIA. COUPLING
- 24 2 Nos. DN500mm DIA. PLAIN ENDED PIPE PIECE
- 25 2 Nos. DN500mm DIA. SINGLE FLANGED PIPE PIECE WITH A PUDDLE FLANGE 1.2m LONG
- 26 1 No. DN500x200mm DIA. ALL FLANGED CONCENTRIC TAPER
- 27 2 Nos. DN200mm DIA. SLUICE VALVE PN10
- 28 2 Nos. DN200mm DIA. FLANGED ADAPTOR
- 29 2 Nos. DN200mm DIA. PLAIN ENDED PIPE PIECE WITH PUDDLE FLANGE 1.2m LONG
- 30 2 Nos. DN200mm DIA. COUPLING
- 31 1 No. DN500x200mm DIA. FLANGED TEE
- 32 1 No. DN500x200mm DIA. ALL FLANGED CONCENTRIC TAPER
- 33 1 No. DN200x150mm DIA. ALL FLANGED CONCENTRIC TAPER
- 34 1 No. DN150mm DIA. FLANGED LONG BEND
- 35 1 No. DN150mm DIA. SLUICE VALVE PN10
- 36 1 No. DN150mm DIA. FLANGED ADAPTOR
- 37 1 No. DN150mm DIA. PLAIN ENDED PIPE PIECE WITH PUDDLE FLANGE 1.2m LONG
- 38 1 No. DN150mm DIA. COUPLING

DETAIL LINE WN05 - 11.25° H.BEND

800mm DIA.
STEEL PIPE

DESCRIPTION

6 Nos. REQUIRED

- 1 2 Nos. 800mm DIA. COUPLING
- 2 1 No. 800mm DIA. PLAIN ENDED
STEEL 11.25° BEND

DETAIL LINE WN05 - 11.25° H.BEND

700mm DIA.
STEEL PIPE

DESCRIPTION

20 Nos. REQUIRED

- 1 2 Nos. 700mm DIA. COUPLING
- 2 1 No. 700mm DIA. PLAIN ENDED
STEEL 11.25° BEND

DETAIL LINE WN05 - 22.5° H.BEND

800mm DIA.
STEEL PIPE

DESCRIPTION

6 Nos. REQUIRED

- 1 2 Nos. 800mm DIA. COUPLING
- 2 1 No. 800mm DIA. PLAIN ENDED STEEL 22.5° BEND

DETAIL LINE WN05 - 22.5° H.BEND

700mm DIA.
STEEL PIPE

DESCRIPTION

7 Nos. REQUIRED

- 1 2 Nos. 700mm DIA. COUPLING
- 2 1 No. 700mm DIA. PLAIN ENDED STEEL 22.5° BEND

DETAIL LINE WN05 - 60° H.BEND

800mm DIA.
STEEL PIPE

DESCRIPTION

1 No. REQUIRED

- 1 2 Nos. 800mm DIA. COUPLING
- 2 1 No. 800mm DIA. PLAIN ENDED STEEL 60° BEND

NOTES

1. ALL PIPE FITTINGS TO BE CONFIRMED ON SITE DURING SETTING OUT.
2. DRAWINGS TO BE READ IN CONJUNCTION WITH STANDARD DRAWINGS.
3. FH, WO AND AV IN THE STANDARD DRAWINGS.

LEGEND:

SV	SLUICE VALVE
FH	FIRE HYDRANT
WO-01	WASHOUT VALVE & No.
AV-01	COMBINATION AIR VALVE & No.
WM	WATER METER
[]	PROPOSED CONCRETE CHAMBER

CONSTRUCTION ISSUE

Signed: SLM/D00

REV	REVISIONS	SIGN	DATE	APPROVED
		BY		
		CHECKED		
		BY		
		CHECKED		
		BY		
		CHECKED		
C0	CONSTRUCTION ISSUE	BY	BAO	DEC,22
		CHECKED		

Project Implementing Agency:



THE CHIEF EXECUTIVE OFFICER
COAST WATER WORKS
DEVELOPMENT AGENCY
P.O. BOX 90417 - 80100
MOMBASA, KENYA

Program & Project Title:

**CONSTRUCTION OF WATER DISTRIBUTION
PIPELINES AND SANITATION FACILITIES
IN MOMBASA**

CONTRACT No.: CWMDA/AFD/W2/2022

Supervising Consultant:

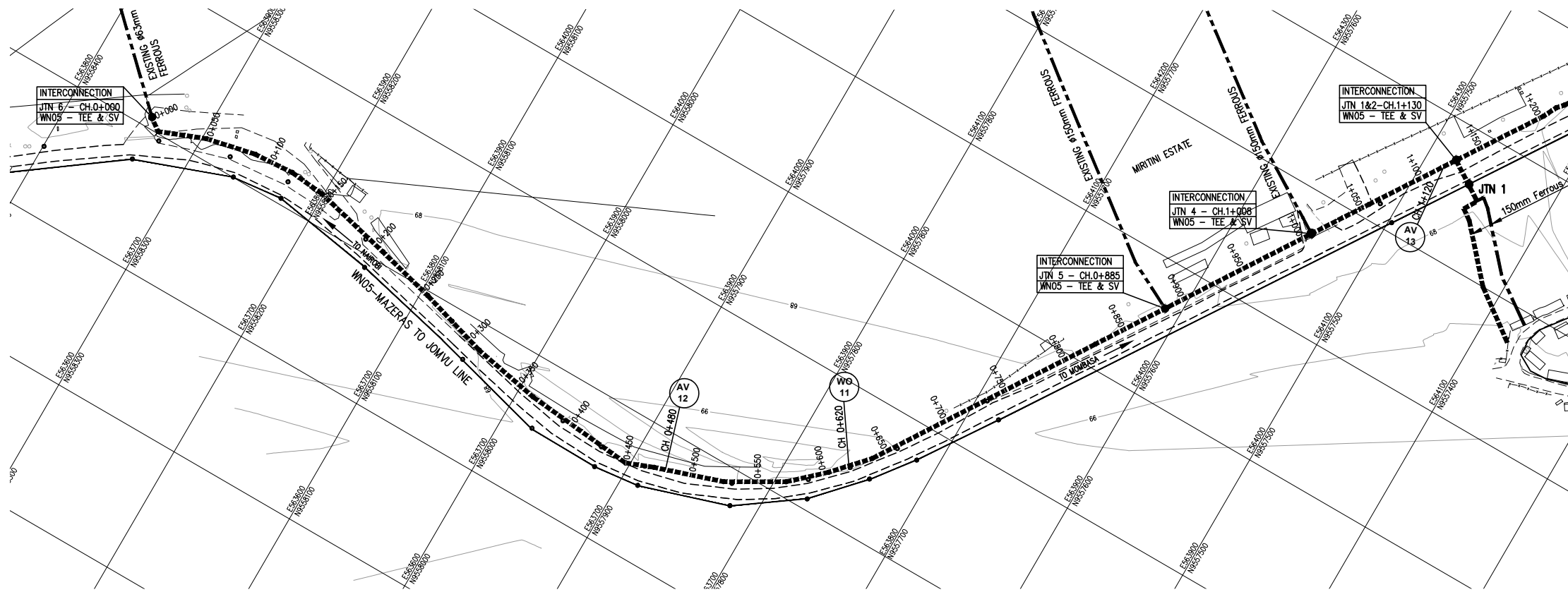


Ingerop East Africa
5th Floor, Devan Plaza
Crossway Road
Westlands
Nairobi.

Drawing Title

WEST MAINLAND – LINE WN05
PIPE FITTING DETAILS
SHEET 9 OF 9

Designed by	FNO	Drawn by	BAO
Checked by		Approved by	
Scale	AS SHOWN (A1)	Date	DECEMBER, 2022
Job No.	6000002	ACAD File:	W&S-WM-P-047C0
C STATUS	DRAWING No. 6000002-W&S-WM-P-047	C0 REV	



PLAN
SCALE 1:2000

NOTES

- CONTOUR LEVELS ARE IN METERS AT ONE METER INTERVALS
- GRID VALUES ARE IN METERS AT 100 METER INTERVALS
- GEOLOGICAL CONDITIONS INDICATED ON DRAWING ARE FOR GENERAL GUIDANCE ONLY
- MINIMUM PIPELINE SLOPES TO BE 1:500
- DRAWING TO BE READ IN CONJUNCTION WITH STANDARD DRAWINGS
- ALL PIPE FITTINGS TO BE CONFIRMED ON SITE DURING SETTING OUT

LEGEND:

- ROAD (TARMAC)
- ROAD / FOOTPATH / TRACK (EARTH / MURRAM)
- FENCE / HEDGE
- CONTOURS, 1m INTERVAL
- ELECTRIC POST
- CULVERT
- GATE
- BUILDINGS
- PROPOSED WATER MAIN
- EXISTING WATER MAIN
- TP10 TRAVERSE POINT & No.
- TREES
- TRIAL HOLE
- HORIZONTAL BEND (H) OR VERTICAL BEND (V) WITH ANGLE INDICATED
- PIPELINE GRADIENT WITH SLOPE DIRECTION (SLOPE MIN. OR 1 IN n)
- PERIMETER WALL
- SV SLUICE VALVE
- FH FIRE HYDRANT
- WO-01 WASHOUT VALVE & No.
- AV-01 COMBINATION AIR VALVE & No.

CONSTRUCTION ISSUE

Signed: SLM/D00

REV	REVISIONS		SIGN	DATE	APPROVED
	BY	CHECKED			
C0	CONSTRUCTION ISSUE	BY	BAO	DEC,22	
		CHECKED			

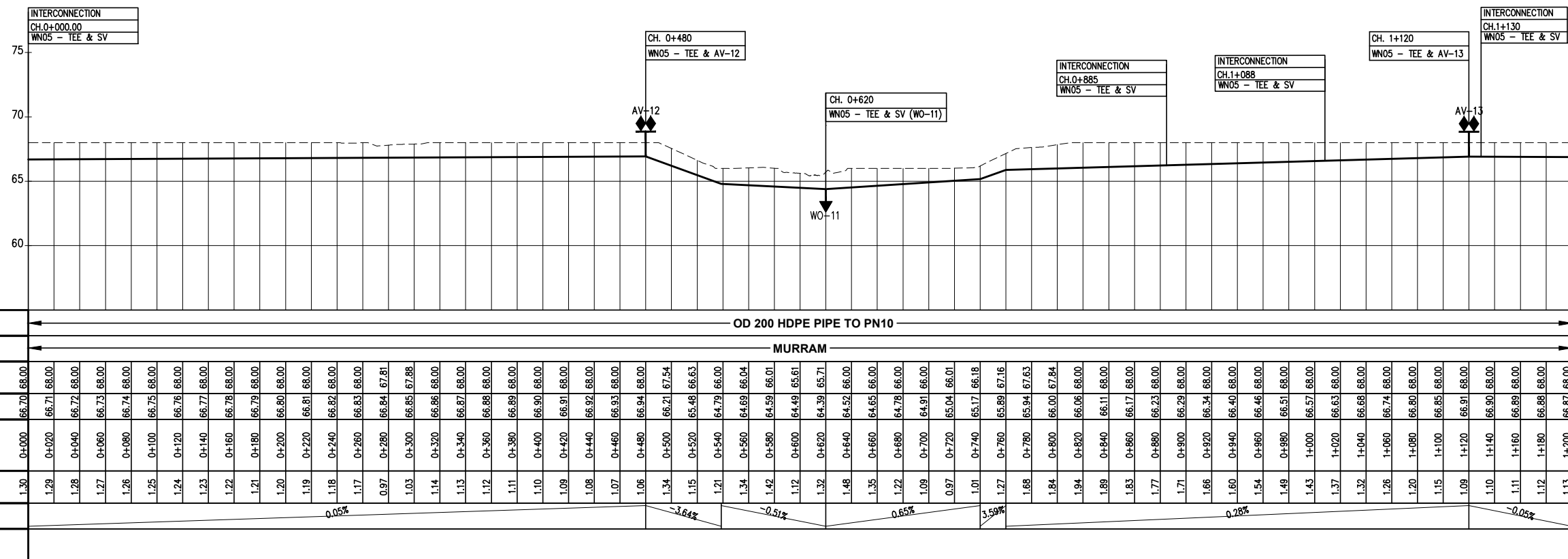
Project Implementing Agency:	
	
THE CHIEF EXECUTIVE OFFICER COAST WATER WORKS DEVELOPMENT AGENCY P.O. BOX 90417 - 80100 MOMBASA, KENYA	

Program & Project Title:	
CONSTRUCTION OF WATER DISTRIBUTION PIPELINES AND SANITATION FACILITIES IN MOMBASA	

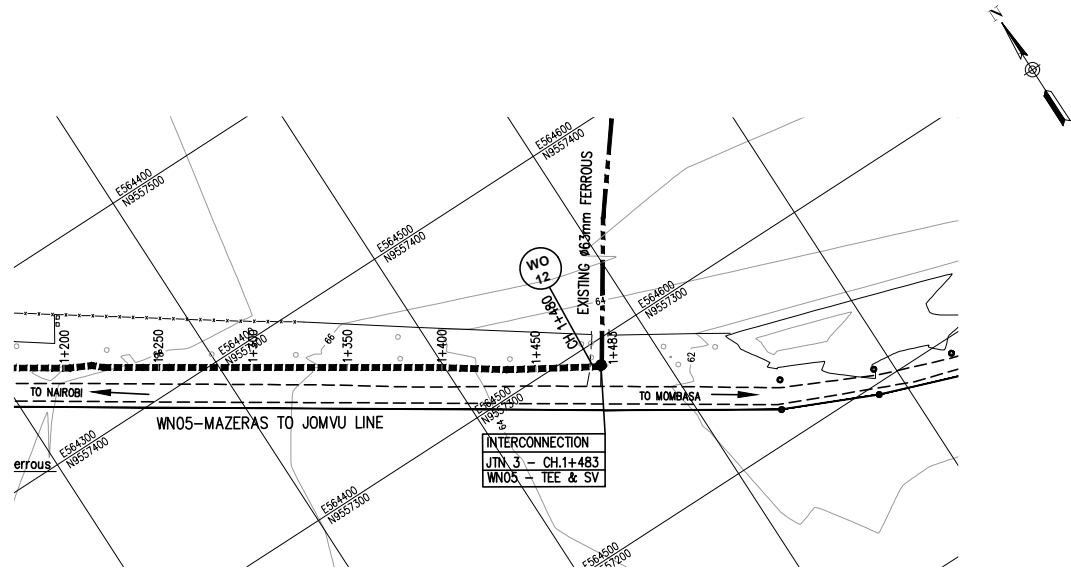
CONTRACT No.: CWMDA/AFD/W2/2022

Supervising Consultant:	
	
Ingerop East Africa 5th Floor, Devan Plaza Crossway Road Westlands Nairobi.	

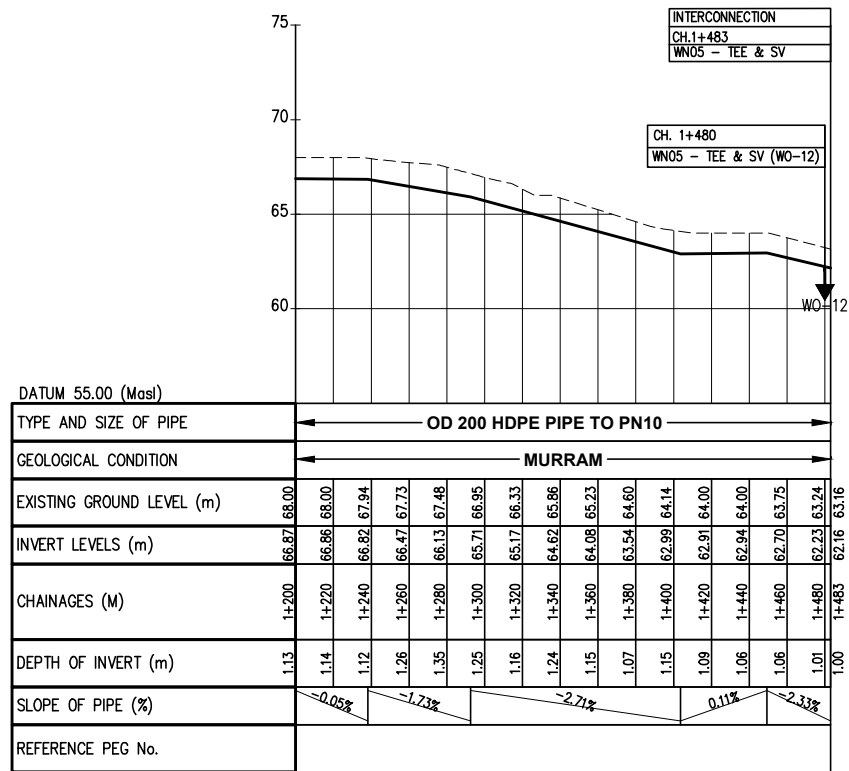
Drawing Title	
WN05 - MANIFOLD PLAN AND PROFILE (CH. 0+000 - CH. 1+200) SHEET 1 OF 2	
Designed by FNO	Drawn by BAO
Checked by	Approved by
Scale AS SHOWN (A1)	Date DECEMBER, 2022
Job No. 6000002	ACAD File: W&S-WM-P-048A00
C STATUS	DRAWING No. 6000002-W&S-WM-P-048A C0 REV



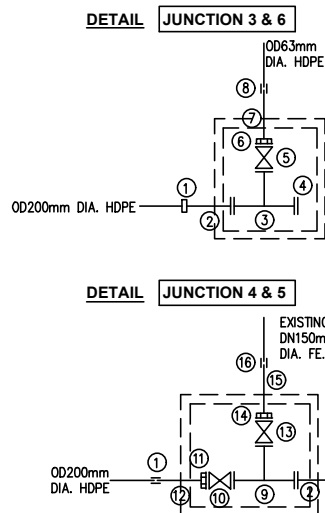
LONGITUDINAL PROFILE
SCALE H 1:2000, V 1:200



PLAN
SCALE 1:2000



LONGITUDINAL PROFILE
SCALE H 1:2000, V 1:200



- DESCRIPTION**
- ① 6 Nos. DN200mm DIA. STEPPED COUPLING
 - ② 4 Nos. DN200mm DIA. SINGLE FLANGED PIPE PIECE WITH A PUDDLE FLANGE 1.2m LONG
 - ③ 2 Nos. DN200x50mm DIA. FLANGED TEE
 - ④ 2 Nos. DN200mm DIA. BLANK FLANGE
 - ⑤ 2 Nos. DN50mm DIA. SLUICE VALVE PN10
 - ⑥ 2 Nos. DN50mm DIA. FLANGE ADAPTOR
 - ⑦ 2 Nos. DN50mm DIA. PLAIN ENDED PIPE PIECE WITH A PUDDLE FLANGE 1.2m LONG
 - ⑧ 2 Nos. DN63/50mm DIA. STEPPED COUPLING
 - ⑨ 2 Nos. DN200x150mm DIA. FLANGED TEE
 - ⑩ 2 Nos. DN200mm DIA. SLUICE VALVE PN10
 - ⑪ 2 Nos. DN200mm DIA. FLANGE ADAPTOR
 - ⑫ 2 Nos. DN200mm DIA. PLAIN ENDED PIPE PIECE WITH A PUDDLE FLANGE 1.2m LONG
 - ⑬ 2 Nos. DN150mm DIA. SLUICE VALVE PN10
 - ⑭ 2 Nos. DN150mm DIA. FLANGE ADAPTOR
 - ⑮ 2 Nos. DN150mm DIA. PLAIN ENDED PIPE PIECE WITH A PUDDLE FLANGE 1.2m LONG
 - ⑯ 2 Nos. DN150mm DIA. COUPLING

NOTES

- CONTOUR LEVELS ARE IN METERS AT ONE METER INTERVALS
- GRID VALUES ARE IN METERS AT 100 METER INTERVALS
- GEOLOGICAL CONDITIONS INDICATED ON DRAWING ARE FOR GENERAL GUIDANCE ONLY
- MINIMUM PIPELINE SLOPES TO BE 1:500
- DRAWING TO BE READ IN CONJUNCTION WITH STANDARD DRAWINGS
- ALL PIPE FITTINGS TO BE CONFIRMED ON SITE DURING SETTING OUT

LEGEND:

- ROAD (TARMAC)
- ROAD / FOOTPATH / TRACK (EARTH / MURRAM)
- FENCE / HEDGE
- 14 --- CONTOURS, 1m INTERVAL
- ELECTRIC POST
- CULVERT
- GATE
- BUILDINGS
- PROPOSED WATER MAIN
- EXISTING WATER MAIN
- TP10 TRAVERSE POINT & No.
- • TREES
- TRIAL HOLE
- 30° HORIZONTAL BEND (H) OR VERTICAL BEND (V) WITH ANGLE INDICATED
- PIPELINE GRADIENT WITH SLOPE DIRECTION (SLOPE MIN. OR 1 IN n)
- PERIMETER WALL
- SV SLUICE VALVE
- FH FIRE HYDRANT
- WO-01 WASHOUT VALVE & No.
- AV-01 COMBINATION AIR VALVE & No.

CONSTRUCTION ISSUE

Signed: SLM/D00

REV	REVISIONS	SIGN	DATE	APPROVED
	BY			
	CHECKED			
	BY			
	CHECKED			
	BY			
	CHECKED			
C0	CONSTRUCTION ISSUE	BY	BAO	DEC,22
		CHECKED		

Project Implementing Agency:
 **THE CHIEF EXECUTIVE OFFICER**
COAST WATER WORKS
DEVELOPMENT AGENCY
P.O. BOX 90417 - 80100
MOMBASA, KENYA

Program & Project Title.
CONSTRUCTION OF WATER DISTRIBUTION
PIPELINES AND SANITATION FACILITIES
IN MOMBASA

CONTRACT No.: CWWDA/AFD/W2/2022

Supervising Consultant.
 Ingerop East Africa
5th Floor, Devan Plaza
Crossway Road
Westlands
Nairobi.

Drawing Title
WN05 - MANIFOLD
PLAN AND PROFILE
(CH. 1+200 - CH. 1+483)
SHEET 2 OF 2

Designed by	FNO	Drawn by	BAO
Checked by		Approved by	
Scale	AS SHOWN (A1)	Date	DECEMBER, 2022
Job No.	6000002	ACAD File:	W&S-WM-P-048B00
C STATUS	DRAWING No. 6000002-W&S-WM-P-048B	C0 REV	