GENERAL NOTES:

1. CONTRACTOR TO EXERCISE EXTREME CARE AND CAUTION WHILST WORKING IN THE VICINITY OF ALL SERVICES.
2. CONTRACTOR TO ENSURE EXISTING SERVICES ARE TO BE PROVED PRIOR TO ANY CONSTRUCTION COMMENCING.
3. CONTRACTOR TO ENSURE THAT ANY BOUNDARY BEACONS DISLODGED ARE TO BE REPLACED IN ITS EXACT POSITION AFTER CONSTRUCTION AT CONTRACTORS OWN COST.
4. CONTRACTOR TO ENSURE EXISTING GRAVES ARE PROTECTED AND NOT DISTURBED.
5. THE COST OF ANY DEVIATIONS (TRAFFIC) NOT PROVIDED OR SHOWN ON THE PLAN AND IN THE SCHEDULE AND REQUIRED BY THE CONTRACTOR TO ENABLE HIM TO COMPLY WITH THE NECESSARY TRAFFIC REQUIREMENTS ETC, SHALL BE AT THE CONTRACTORS OWN EXPENSE.
6. FINAL POSITION AND EXTENT OF BELLMOUTHS TO BE CONFIRMED ON SITE BY ENGINEER.
7. DRIVEWAY ACCESSES TO BE MAINTAINEDIREGRADED TO SUIT NEW ROAD LEVELS WHERE REQUIRED. EXTENT OF WORK TO BE DETERMINED ON SITE BY ENGINEER.
8. REMOVAL OF AFFECTED TREES AND FENCES TO BE CONFIRMED ON SITE BY ENGINEER.

TRACK 87122 - ROAD CENTRE LINE DETAILS

	No.	CHAINAGE	Y Co-Ord	X Co-Ord	CURVE DETAILS	REMARKS
START		0.000	10409.57	3282240.84	—	—
Curve No. 1	BC1 EC1 PI1	11.04 37.22	10403.64 10396.35 10383.60	3282250.15 3282261.60 3282266.26	R = 40.000m IA = 37° 29' 48" TL = 13.58m	—
Curve No. 2	BC2 EC2 PI2	37.78 49.38	10383.07 10377.58 10372.89	3282266.45 3282268.45 3282271.94	R = 40.000m IA = 16° 37' 27" TL = 5.84m	—
Curve No. 3	BC3 EC3 PI3	64.85 81.35	10360.48 10353.85 10348.11	3282281.17 3282286.11 3282292.07	R = 100.000m IA = 9° 27' 15" TL = 8.27m	—
Curve No. 4	BC4 EC4 PI4	138.13 161.20	10308.75 10300.68 10290.33	3282332.99 3282341.38 3282346.70	R = 70.000m IA = 18° 52' 50" TL = 11.64m	—
Curve No. 5	BC5 EC5 PI5	183.03 194.44	10270.92 10265.84 10261.04	3282356.69 3282359.30 3282362.38	R = 120.000m IA = 5° 26' 48" TL = 5.71m	—
Curve No. 6	BC6 EC6 PI6	260.18 270.07	10205.70 10201.54 10197.17	3282397.88 3282400.55 3282402.87	R = 120.000m IA = 4° 43' 19" TL = 4.95m	—
Curve No. 7	BC7 EC7 PI7	336.30 363.48	10138.66 10126.01 10121.70	3282433.91 3282440.62 3282454.27	R = 35.000m IA = 44° 29' 26" TL = 14.32m	—
END		440.07	10098.59	3282527.29	—	—

SETTING OUT DETAILS

STORMWATER DRAINAGE DETAILS

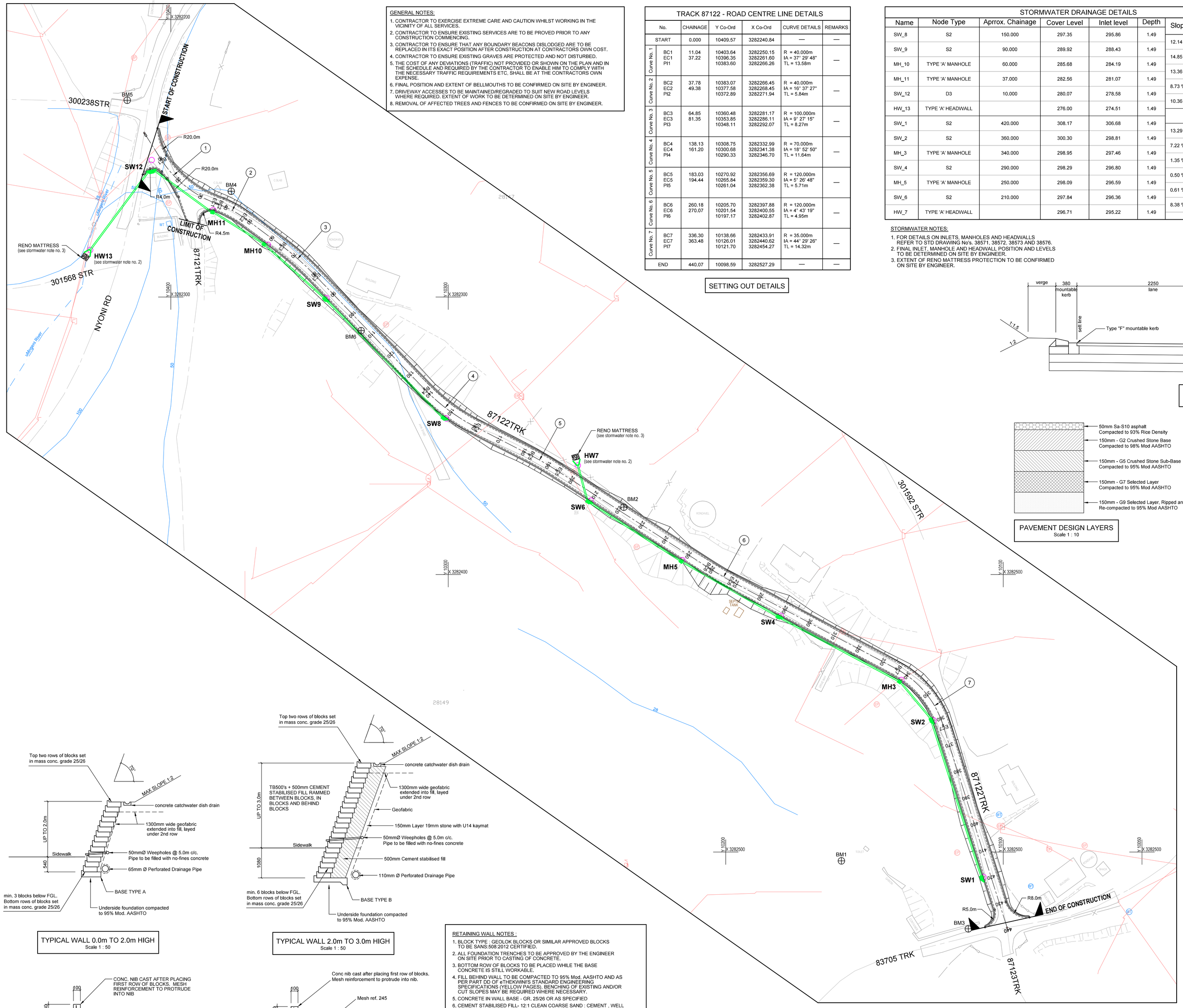
Name	Node Type	Aprrox. Chainage	Cover Level	Inlet level	Depth	Slope	Pipe Size And Type
SW_8	S2	150.000	297.35	295.86	1.49	12.14 %	450mm Ø 100D Concrete
SW_9	S2	90.000	289.92	288.43	1.49	14.85 %	450mm Ø 100D Concrete
MH_10	TYPE 'A' MANHOLE	60.000	285.68	284.19	1.49	13.36 %	450mm Ø 100D Concrete
MH_11	TYPE 'A' MANHOLE	37.000	282.56	281.07	1.49	8.73 %	450mm Ø 100D Concrete
SW_12	D3	10.000	280.07	278.58	1.49	10.36 %	450mm Ø 100D Concrete
HW_13	TYPE 'A' HEADWALL		276.00	274.51	1.49		
SW_1	S2	420.000	308.17	306.68	1.49	13.29 %	450mm Ø 100D Concrete
SW_2	S2	360.000	300.30	298.81	1.49	7.22 %	450mm Ø 100D Concrete
MH_3	TYPE 'A' MANHOLE	340.000	298.95	297.46	1.49	1.35 %	450mm Ø 100D Concrete
SW_4	S2	290.000	298.29	296.80	1.49	0.50 %	450mm Ø 100D Concrete
MH_5	TYPE 'A' MANHOLE	250.000	298.09	296.59	1.49	0.61 %	450mm Ø 100D Concrete
SW_6	S2	210.000	297.84	296.36	1.49	8.38 %	450mm Ø 100D Concrete
HW_7	TYPE 'A' HEADWALL		296.71	295.22	1.49		

STORMWATER NOTES:

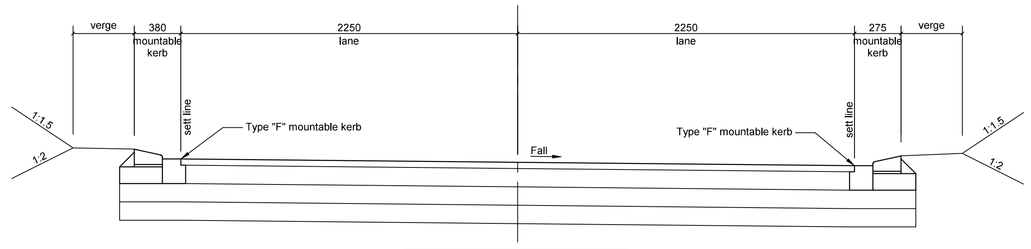
1. FOR DETAILS ON INLETS, MANHOLES AND HEADWALLS REFER TO STD DRAWING No's. 38571, 38572, 38573 AND 38576.
2. FINAL INLET, MANHOLE AND HEADWALL POSITION AND LEVELS TO BE DETERMINED ON SITE BY ENGINEER.
3. EXTENT OF RENO MATTRESS PROTECTION TO BE CONFIRMED ON SITE BY ENGINEER.

CONTROL POINTS:

NAME	Y	X	Z	DESCRIPTION
BM1	10158.25	3282503.09	315.39	12mm Iron Peg
BM2	10236.68	3282375.61	297.90	12mm Iron Peg
BM3	10112.50	3282527.56	312.34	12mm Iron Peg
BM4	10378.14	3282261.75	283.74	12mm Iron Peg
BM5	10415.66	3282228.96	280.75	12mm Iron Peg
BM6	10331.34	3282312.01	292.46	12mm Iron Peg

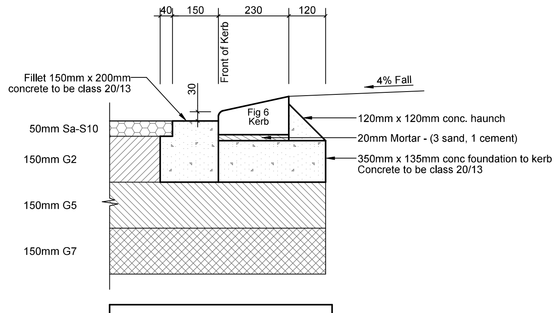


DESIGN PLAN
Scale 1 : 500



TYPICAL CROSS SECTION
Scale 1 : 25

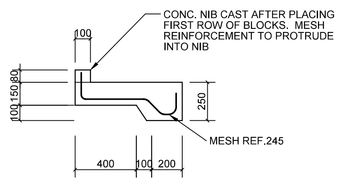
PAVEMENT DESIGN LAYERS
Scale 1 : 10



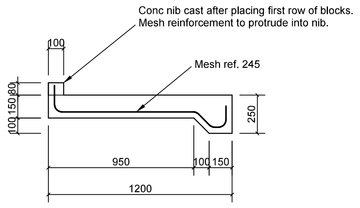
TYPE F MOUNTABLE KERB
WITH FILLET/CHANNEL
Scale 1 : 10

TYPICAL WALL 0.0m TO 2.0m HIGH
Scale 1 : 50

TYPICAL WALL 2.0m TO 3.0m HIGH
Scale 1 : 50



BASE TYPE A
1 : 20



BASE TYPE B
1 : 20

RETAINING WALL NOTES :

1. BLOCK TYPE : GEOLOK BLOCKS OR SIMILAR APPROVED BLOCKS TO BE SANS:506:2012 CERTIFIED.
2. ALL FOUNDATION TRENCHES TO BE APPROVED BY THE ENGINEER ON SITE PRIOR TO CASTING OF CONCRETE.
3. BOTTOM ROW OF BLOCKS TO BE PLACED WHILE THE BASE CONCRETE IS STILL WORKABLE.
4. FILL BEHIND WALL TO BE COMPACTED TO 95% Mod. AASHTO AND AS PER PART DD OF eTHEKWINI'S STANDARD ENGINEERING SPECIFICATIONS (YELLOW PAGES). BENCHING OF EXISTING AND/OR CUT SLOPES MAY BE REQUIRED WHERE NECESSARY.
5. CONCRETE IN WALL BASE - GR. 25/26 OR AS SPECIFIED
6. CEMENT STABILISED FILL- 12:1 CLEAN COARSE SAND : CEMENT , WELL RAMMED BETWEEN BLOCKS. IN BLOCKS AND 500mm BEHIND BLOCKS AS DETAILED.
7. MINIMUM OF 3 BLOCKS TO BE LAID PER SQ.M. (OR AS PER THE MANUFACTURES SPECIFICATION).
8. CONTRACTOR TO MAKE ALLOWANCE FOR +/- 73mm "STEP BACK" WITH EACH 200mm STEP UP WHEN SETTING OUT THE BASE. (OR AS PER THE MANUFACTURES SPECIFICATION).
9. CONTRACTOR TO REFER TO DETAILED SURVEY DRAWINGS FOR THE LOCATION OF SERVICES, PROPERTY BOUNDARIES ETC.
10. LEVELS AND DIMENSIONS INDICATED ON THIS DRAWING ARE ONLY A GUIDE AND THESE NEED TO BE CONFIRMED BY THE ENGINEER ON SITE.
11. POSITION OF RETAINING WALLS TO BE CONFIRMED BY ENGINEER ON SITE.
12. ALL RETAINING WALLS AS PER STRUCTURES DEPARTMENT DETAILS (ISSUED SEPARATELY IF REQUIRED).

DRAUGHTING SYMBOLS

DETAIL	Proposed	Existing
CENTERLINE		
WATERMAIN DUCT		
TELKOM CABLE DUCT		
ELECTRIC CABLE DUCT		
ELECTRIC CABLES		
ELECTRIC LIGHT POLE	ELP	ELP
TRAFFIC SIGNAL	TS	TS
CONSUMER DISTRIB. UNIT	CDU	CDU
TELKOM CABLES	TeleP	TeleP
TELEPHONE POLE	TP	TP
SEWER	S	S
STORMWATER DRAIN	SWD	SWD
STORMWATER INLET		
SCOOP		
KERB AND CHANNEL		
EARTH EMBANKMENT		
WATERMAIN		
VALVE (Valve / Air Valve)	V / AV	V / AV
FIRE PLUG	FP	FP
STANDARD HYDRANT	SH	SH
EXISTING M.H. TO BE CONVERTED TO CATCHPIT		
EXISTING CATCHPIT TO BE CONVERTED TO M.H.		

FOR TENDER PURPOSES ONLY

New Road Area ..... m²

Unsurfaced to Surfaced ..... km's

AS BUILT

Date ..... Sign .....

eTHEKWINI MUNICIPALITY

ENGINEERING UNIT
ROADS PROVISION DEPARTMENT

PLAN DESCRIPTION	DWG. NO.	
CONTINUED FROM		
CONTINUED ON		
CROSS SECTIONS		
TYPICAL CROSS SECTION		
SURVEY LAYOUT		

REDUCED PLAN USE SCALE BELOW

0 10 20 30 40 50 60 70

70mm ON ORIGINAL PLAN

DRAWN IN ALLYWINDOWS

Revision	Date	Description

NOTE:
No construction work to commence until land and servitude acquisitions have been completed

Acquisitions completed

Date Engineer

NORTH POINT

UNDERGROUND SERVICES CHECKED

SERVICE	DATE	SIGNATURE
S.W.DRAINS		
SEWERS		
WATER MAINS		
G.P.O.CABLES		
ELECTRIC CABLES		
S.A.R. CABLES		
E.S.C. CABLES		
OIL PIPE LINE		

NOTE:
Only underground services affected by new construction work are shown. Care must be taken during excavations for road foundations, trenches etc., to avoid damage to underground services such as sewers, drains, cables, water mains and connections. Wherever possible these must be located before work proceeds.

Contract No: 1R-33142

Project Title: GRAVEL TO ASPHALT UPGRADE OF TRACK 87122 IN INANDA WARD 108

Drawing Title: DIMENSIONS, SETTING OUT, EXISTING AND PROPOSED SERVICES PLAN

Scales	Reference
AS SHOWN	
Designed: D.NAICKER	Date: 03 OCTOBER 2025
Checked: N.PARSHOTAM	Drawn in AllyWindows by: D.NAIDOO

Manager RD (N)

DIH : RP

Head : Engineering

Drawing No: 49483

Sheet 01 of 0 Sheets