

1 GROUND FLOOR LEVEL - begane grond
1 : 100

2 ROOF LEVEL - dak
1 : 100

DOOR SCHEDULE 1:50 - kozijnstaat											
DOOR TYPE SD 01			DOOR TYPE SD 03			DOOR TYPE SD 04			DOOR TYPE SD 06		
PAINTED WOODEN DOOR WITH LAMINATED PLASTIC PANELS & HYDRAULIC CLOSER			GALVANIZED PAINTED INSULATED BLAST RESISTANT STEEL DOOR WITH DOUBLE PANIC BAR & HYDRAULIC CLOSER			GALVANIZED PAINTED INSULATED BLAST RESISTANT STEEL DOOR WITH PANIC BAR & HYDRAULIC CLOSER			GALVANIZED PAINTED INSULATED BLAST RESISTANT STEEL DOOR WITH PANIC BAR & HYDRAULIC CLOSER		
LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL
1	1	2	-	-	1	-	2	2	-	-	5

ROOM FINISHING SCHEDULE - ruimte afwerkstaat																								
		FLOOR FINISHING								WALL FINISHING (INTERNAL)						SKIRTING		CEILING FINISHING						
ITEM	ROOMS	FALSE FLOOR 600x600	GRANITE GRES TILES 60x60	GRANITE GRES TILES 30x30	ACID PROOF TILES 150x150x20	UNGLAZED NON SLIPPERING CERAMIC TILES	CEMENT SAND SCORED THK 75 mm WITH EPOXY SEALANT FINISHING	CEMENT MORTAL WITH HARDENER	EPOXY COATING	PLASTER & PAINTED	INSULATED WITH ROCKWALL PANEL 160 mm & 15 mm GYPSUM BOARD	ACOUSTICAL SHEET	ACID RESISTANT PAINT ABOVE SUSPENDED CERAMIC TILES UP TO 2.20 m	ACID RESISTANT CERAMIC TILES UP TO 2.00m PLASTER AND PAINTED ABOVE	PVC	EPOXY SEALANT	GRANITE GRES	SUSPENDED ACOUSTIC TILED MINERAL SYSTEM	EXPOSED PAINTED CONCRETE	SUSPENDED MOISTURE RESISTANT TILED SYSTEM	GRATING			
201	LABORATORY EXPANSION																							
202	NEW SAMPLE ROOM																							
203	NEW VENTILATION MACHINE ROOM																							
204	CORRIDOR																							
105	CORRIDOR																							
106	LABORATORY																							
110	CHEM. STORE																							

NOTE FOR REV. C
REVISED R_c VALUE FOR
EXTERNAL WALL

R _c WALL CONSTRUCTIONS - gevels						
LAYERS	Thickness mm	Density kg/m ³	Specific Ht. kJ / (kg K)	R-value (m ² K)/W	Weight kg/m ²	
Inside surface resistance	0.000	0.000	0.00	0.12064	0.0	
Gypsum board	16.000	750.0	0.84	0.03300	15.0	
Reinforced concrete	250.000	1800.0	0.88	0.25	450.0	
Vapor barrier	3.000	1000.0	0.92	0.02000	3.0	
Polystyrene insulation	140.000	80.0	0.84	3.50000	11.2	
Plaster	20.000	1400.0	0.84	0.03000	28.0	
Outside surface resistance	0.000	0.000	0.00	0.05864	0.0	
Totals	429.000	--	--	4.01228	507.2	
WALL DETAILS						
Outside surface colour	Medium					
Absorptivity	0.675					
Overall U-value	0.249 W/(m²K)					

ROOF CONSTRUCTIONS - dak						
LAYERS	Thickness mm	Density kg/m ³	Specific Ht. kJ / (kg K)	R-value (m ² K)/W	Weight kg/m ²	
Inside surface resistance	0.000	0.000	0.00	0.12064	0.0	
Reinforced concrete	300.000	1800.0	0.84	0.30000	540.0	
Light concrete	50.000	800.0	0.88	0.17000	40.0	
Water proofing membrane	5.000	1000.0	0.92	0.03000	5.0	
Polystyrene insulation	150.000	30.0	1.25	3.75000	4.5	
Concrete panel	50.000	1200.0	0.88	0.10000	60.0	
Outside surface resistance	0.000	0.000	0.00	0.05864	0.0	
Totals	555.000	--	--	4.52928	649.5	
ROOF DETAILS						
Outside surface colour	Medium					
Absorptivity	0.675					
Overall U-value	0.221 W/(m²K)					

FLOOR CONSTRUCTIONS TYPE 1 - vloer type 1						
LAYERS	Thickness mm	Density kg/m ³	Specific Ht. kJ / (kg K)	R-value (m ² K)/W	Weight kg/m ²	
Inside surface resistance	0.000	0.000	0.00	0.12064	0.0	
Topping	50.000	800.0	0.88	0.17000	40.0	
Prefabr. hollow core slab	150.000	1200.0	0.84	0.15000	180.0	
Polystyrene insulation	150.000	30.0	1.25	3.75000	4.5	
Damp proof membrane	3.000	1000.0	0.92	0.02000	3.0	
Base course	350.000	1200.0	0.84	0.87500	300.0	
Outside surface resistance	0.000	0.000	0.00	0.05864	0.0	
Totals	603.000	--	--	5.14428	527.5	
ROOF DETAILS						
Outside surface colour	Medium					
Absorptivity	0.675					
Overall U-value	0.193 W/(m²K)					

FLOOR CONSTRUCTIONS TYPE 2 - vloer type 2						
LAYERS	Thickness mm	Density kg/m ³	Specific Ht. kJ / (kg K)	R-value (m ² K)/W	Weight kg/m ²	
Inside surface resistance	0.000	0.000	0.00	0.12064	0.0	
Topping	50.000	800.0	0.88	0.17000	40.0	
Prefabr. hollow core slab	200.000	1200.0	0.84	0.20000	240.0	
Polystyrene insulation	150.000	30.0	1.25	3.75000	4.5	
Damp proof membrane	3.000	1000.0	0.92	0.02000	3.0	
Base course	350.000	1200.0	0.84	0.87500	300.0	
Outside surface resistance	0.000	0.000	0.00	0.05864	0.0	
Totals	653.000	--	--	5.19428	587.5	
ROOF DETAILS						
Outside surface colour	Medium					
Absorptivity	0.675					
Overall U-value	0.193 W/(m²K)					

NOTE FOR REV. C
REVISED R_c VALUE FOR FLOOR

RUIMTELIJST

	ITEM	ROOMS	AREA (m ²)	AANTAL PERSONEN	TYPE RUIMTE	GEBRUIKSFUNCTIE
GROUND FLOOR begane grond	201	LABORATORY EXPANSION - laboratorium	135.30	5 - 6	VERBLUFSRUIMTE	INDUSTRIEFUNCTIE
	202	NEW SAMPLE ROOM - monster ruimte	25.89	1 - 2	VERBLUFSRUIMTE	INDUSTRIEFUNCTIE
	203	NEW VENTILATION MACHINE ROOM - ventilatie r.	34.79	Nvt	TECHNISCHE RUIMTE	OVERIGE GEBRUIKSFUNCTIE
	204	CORRIDOR - gang	8.89	Nvt	VERBLUFSRUIMTE	INDUSTRIEFUNCTIE
	110	CHEM. STORE - opslagruimte	20.62	0	FUNCTIERUIMTE	LICHTE INDUSTRIEFUNCTIE

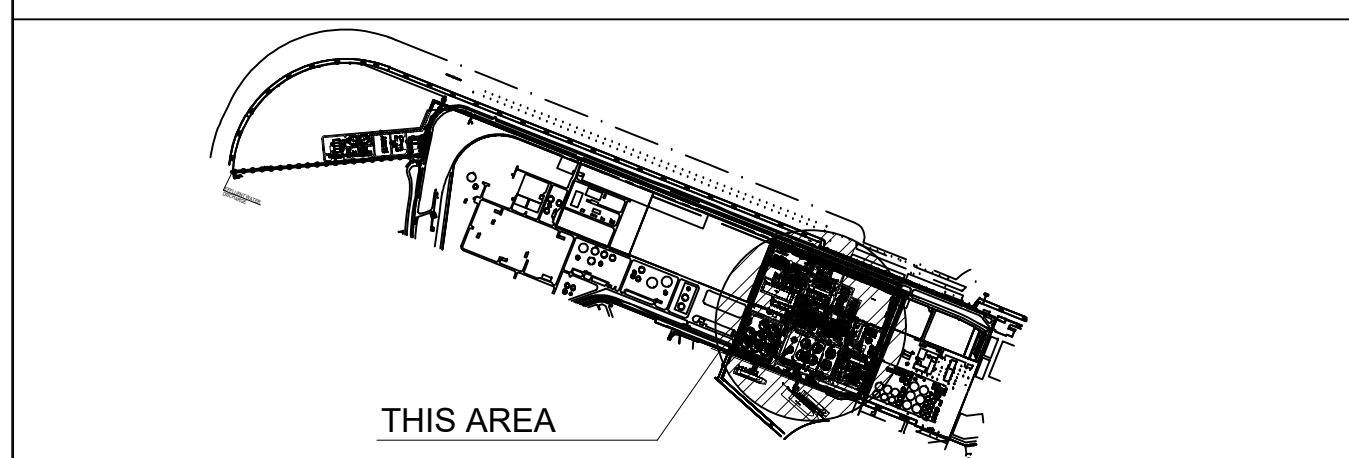
GENERAL NOTES

- ALL DIMENSIONS ARE EXPRESSED IN MILLIMETERS & ELEVATIONS IN METERS
 - THE STRUCTURAL PART OF ROOF AND WALL SHALL PROVIDE TWO HOURS FIRE RESISTANCE
 - THE STAIRCASES SHALL BE PROVIDED WITH EMERGENCY LIGHTING
 - ELECTRICAL INSTRUMENT EQUIPMENT LAYOUT ARRANGEMENT ARE INDICATIVE. REFER TO ELECTRICAL INSTRUMENT DRAWINGS
 - THIS DRAWING IS VALID ONLY FOR SUBCONTRACTOR SYSTEM AND FINISHING DETAILED DESIGN. MATERIAL SELECTION AND FOR BUILDING PERMIT
 - FOR APPLICABLE FIRE AND SMOKE CLASSES PLEASE REFER TO THE INTEGRAL PLAN BRANDBEVEILIGHEID
 - GYPSUM BOARD PANEL IS SUPPORTED BY DOUBLE SELF-SUPPORTING GALVANIZED STEEL METAL FRAME
 - EQUIPMENT AND FURNITURE POSITION SHALL BE CHECKED
 - ELECTRICAL PANEL OF EXPANSION LABORATORY SHALL BE SITUATED IN THE VENTILATION MACHINE ROOM
- ALLE AFMETINGEN ZIJN WEERGEGEVEN IN MILLIMETERS & HOOGTES IN METERS
 - HET DAK, DE WANDEN EN DE VERHOOGDE VLOER VAN HET GEBOUW BEDIEN TWEE UUR WEERSTAND TEGEN BRAND
 - DE TRAPPEN WORDEN VOORZIE VAN NOODVERLICHTING
 - ELEKTROTECHNISCHE / INSTRUMENT EQUIPMENT EN KANAAL LAY-OUTREGELING ZIJN INDICATIEF. ER WORDT VERWEEZEN NAAR DE ELEKTROTECHNISCHE / INSTRUMENTATIE TEKENINGEN
 - DEZE TEKENING IS ALLEEN GELDIG VOOR ONDERNEMERS EN DE UITWERKING VAN HET DETAILED DESIGN. MATERIAALSELECTIE EN VOOR KOUVERGUNNING
 - RAADPLEEG VOOR DE TOE TE PASSEN BRAND- EN ROOKKLASSEN HET INTEGRAL PLAN BRANDBEVEILIGHEID
 - DE DRAGCONSTRUCTIE VAN DE GIPSPLAAT DOOR MODEL VAN DUBBELZELFDRAGENDE GEGALVANISEERD METALEN FRAME
 - DE POSITIE VAN APPARATUUR EN MEUBELARIJ DIEN GECONTROLEERD TE WORDEN
 - DE POSITIE VAN HET ELECTRISCH PANEEL VAN DE UITBREIDING VAN HET LAB BEVINDT ZICH IN DE VENTILATIERUIMTE

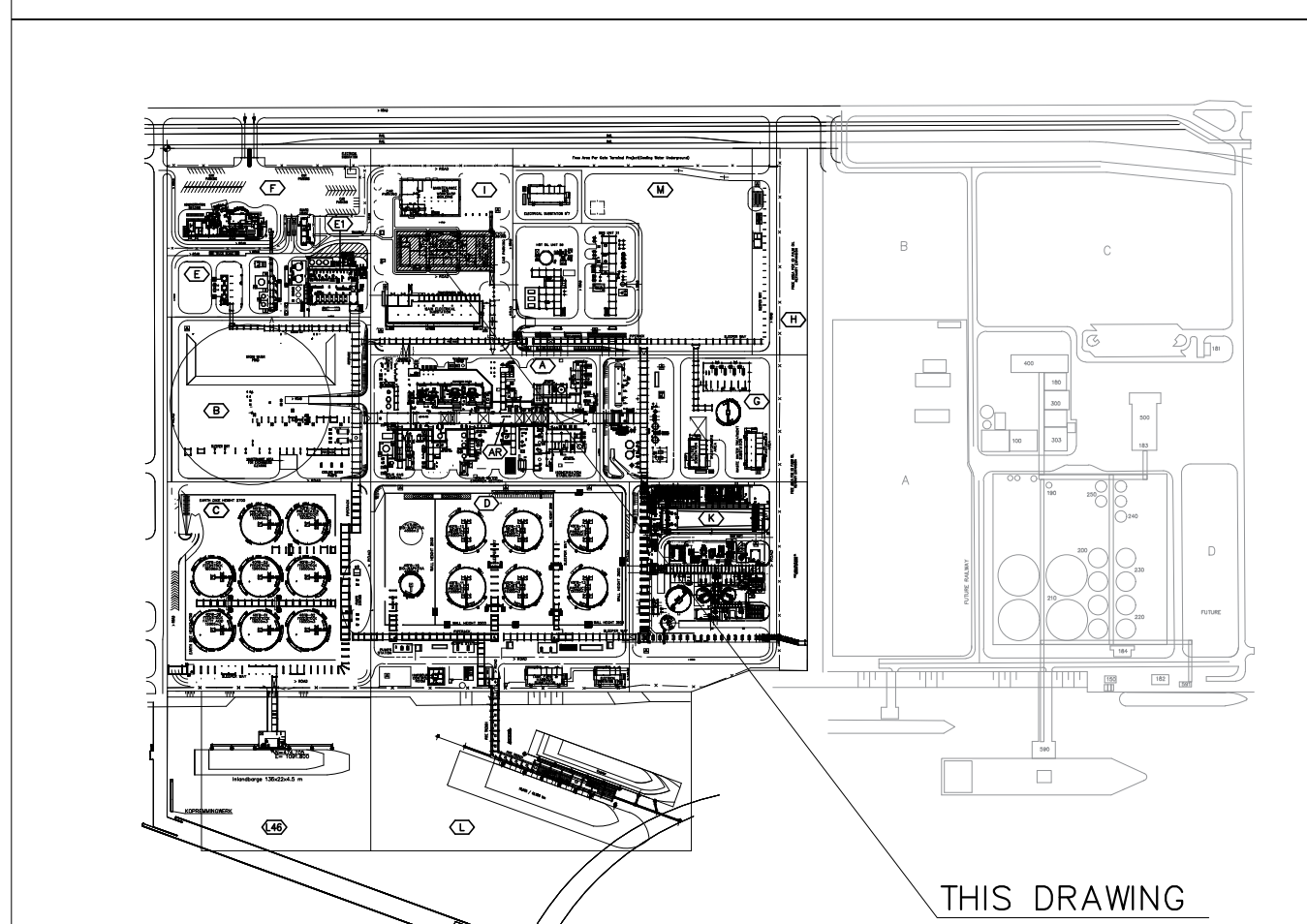
LEGEND - renvooi

	REINFORCED CONCRETE COLUMNS gewapend beton kolommen		FINISH FLOOR LEVEL afgewerkt vloerniveau
	EXTERNAL CMU THK 250 mm PLASTERED & PAINTED BOTHSIDES beton dikte 250 mm stuc & schildenwerk beide zijden		XXX AC AIR CONDITIONING
	INTERNAL CMU THK 200 mm PLASTERED & PAINTED BOTHSIDES beton dikte 200mm stuc & schildenwerk beide zijden		NY MECHANICAL VENTILATION
	VAPOR BARRIER dampwerende laag		YYY ROOM NUMBER - nummernummer SMOKE DETECTION - rookmelder
	INSULATION PANELS - isolatiepanelen		KKK TF TOTAL FLOODING FIRE EXTINGUISHER SYSTEM
	GYPSUM BOARDING - gipsplaat		SS SPRAY SYSTEM
	DOOR FIRE-RATED transoms door		ACCESS OPENING
	EPOXY COATING		
	CEMENT MORTAR WITH HARDENER cementmortel met verharder		
	ACID RESISTANT TILES 200x200mm zuurresistente tegels 200x200mm		

GENERAL PLOT PLAN



PLOT PLAN



Drawing No		DESCRIPTION			
REFERENCE DRAWINGS					
CONFIDENTIAL					
1	22/02/2021	ISSUE FOR PERMITTING	SOILUANN	WILKEKON	LAITIKAL
C	12/02/2021	ISSUE FOR FEED	C.C.	A.F.	A.F. - O.L.
B	15/01/2021	ISSUE FOR REVIEW	C.C.	A.F.	A.F. - O.L.
A	13/11/2020	ISSUE FOR REVIEW	S.F.	C.C.	A.F. - O.L.
REV	DATE	DESCRIPTION	PREP	CKD	APPR/AUTH

ROTTERDAM SITE DEVELOPMENT
DEFINITION PHASE
NESTE

LABORATORY EXPANSION
BUILDING ARCHITECTURAL DESIGN
PLAN VIEWS AND SCHEDULES

SCALE	Drawing No				Page	Rev.
AS SHOWN	080871C	070	DW	20	23	001
	Project	Unit	Doc.Type	Disc	Subj	Ser.No
Neste Drawing No						

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