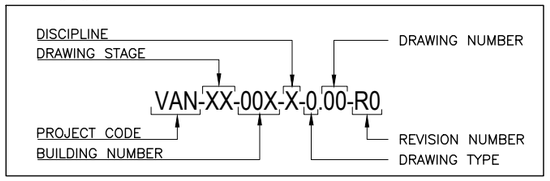
STRUCTURAL SERIES				
	NO. DRAWING TITLE	DWG NO.	REV.	REMARKS
01	DRAWING LIST	G-1.00	00	
02	GENERAL NOTES	G-1.01	00	
03	GROUND FLOOR AND ROOF PLAN	G-1.02	00	
04	ELEVATION A	G-1.03	00	
05	ELEVATION B	G-1.04	00	
06	SECTION @ GRID 4	G-1.05	00	
07	COLUMN LOCATION AND FOUNDATION PLAN	G-1.06	00	
08	ROOF STRUCTURE AND SECTION @ GRID A	G-1.07	00	
09	STRUCTURAL DETAIL 1	G-1.08	00	
10	STRUCTURAL DETAIL 2	G-1.09	00	
11	SERVICES DRAWINGS	G-1.10	00	

DRAWING LIST

SCALE NTS

DRAWING NUMBER KEY



BUILDING NUMBERS:
01 = HARBOUR
02 = GUARD HOUSE
03 = VEHICLE SHED EXTENSION BUILDING
04 = STORAGE EXTENSION BUILDING
05 = FUEL FARM
06 = WATER STORAGE TANKS
07 = MECHANICAL STORAGE
08A = POWER HOUSE
08B = DESALINATION BUILDING
09 = WASTE SORTING SHED EXTENSION
09A = SORTING SHED TO INCINERATOR SHADING
10. BUNKERS
- 10A - ADMIN TRAINING
- 10B - RECEIVING (NON-RECYCLING)
- 10C - RECEIVING (E-WASTE)
- 10D - RECEIVING (PLASTICS)
- 10E - RECEIVING (PAPER ITEMS)
- 10F - RECEIVING (REJECTS)
- 10G - RECEIVING (ORGANIC WASTE)
- 10H - RECEIVING (MEDICAL WASTE)
- 10I - RECEIVING (METALS)
- 10J - RECEIVING (NON-RECYCLING)
- 10K - RECEIVING (FOR EXPANSION)
- 10L - RECEIVING (FOR EXPANSION)

11. WASTE MANAGEMENT FACILITIES
- 11A - RESERVED FOR FUTURE USE
- 11B - RECYCLABLES
- 11C - RECYCLING (WITH COMPACTION AND BAILING PLANT)
- 11D = E-WASTE
- 11E = BULK WASTE
- 11F = COMPOST
- 11G = HAZARDOUS WASTE

12 = UNPROCESSED WASTE BUNKER
13 = PUMP HOUSE
14 = PROPOSED LANDFILL
- 14A = C&D WASTE
- 14B = GENERAL WASTE

DRAWING STAGES:
CN = CONCEPTUAL DESIGN
SD = SCHEMATIC DESIGN
DD = DESIGN DEVELOPMENT
TD = TENDER DOCUMENTS
CD = CONSTRUCTION DOCUMENTS

DISCIPLINE:
G = GENERAL
A = ARCHITECTURAL
S = STRUCTURAL
E = ELECTRICAL
P = PLUMBING
F = FIRE PROTECTION

DRAWING NUMBERS:
1 = GENERAL
2 = PLANS
3 = ELEVATIONS
4 = SECTIONS
5 = DETAILS
6 = SCHEDULES

PROJECT :
R. VANDHOO PROJECT: SOLID WASTE MANAGEMENT FACILITY

CLIENT : MINISTRY OF ENVIRONMENT AND ENERGY

CONSULTANT : **HUSSAIN SHAHEED**

DRAWN BY : ARIF

CHECKED BY : HUSSAIN SHAHEED

TITLE : AS GIVEN

SCALE : AS GIVEN DATE:19.01.2019

PG NO.

DWG NO: VAN-TD-09-G-1.00-R0

REV. NO: R0-190119/01

REV. NOTES

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APPROVED BY:

APPROVED DATE:

GENERAL NOTES

ALL EXTERNAL MASONRY WALLS SHALL BE 100mm THK SOLID BLOCK WITH 2 LAYERS OF 15mm THK PLASTERING WITH "REOMIX OR EQUIVALENT CHEMICAL ,GROUND SMOOTH IN APPROVED PAINT FINISH OVER WALL SEALER
ALL INTERNAL MASONRY WALLS SHALL BE 100mm THK HOLLOW BLOCK WITH 20mm THK PLASTERING ON BOTH SIDES ,GROUND SMOOTH IN APPROVED PAINT FINISH OVER WALL SEALER
ALL THE SIDE WALL OF THE TOILET NEED TO TILE FOR FULL HEIGHT
ALL FLOOR FINISHES SHALL BE FINISHED WITH APPROVED TILES FINISH UNLESS OTHERWISE STATED
ALL TOILETS AND WET AREA FLOORS TO HAVE NON-SLIP CERAMIC FLOOR TILES
ALL THE TILES SHOULD BE SPECIFIED BY THE CONTRACTOR AND APPROVED BY THE CLIENT
"MASTERTILE 30" OR EQUIVALENT CHEMICAL CEMENT SHOULD BE USED FOR ALL THE TILES
"MASTERTILE 530m" OR EQUIVALENT SHOULD BE USED FOR GROUT
ALL THE TOILETS FLOOR FINISH LEVEL 5mm LOWER THAN THE FFL OF RESPECTIVE FLOORS
"MATERSEAL 550" CHEMICAL SHOULD BE APPLIED IN ALL THE TOILETS AND BALCONY FLOORS UP TO 1 FEET HEIGHT ON THE WALLS AFTER SCREEDING
ALL DOORS AND WINDOWS TO BE MEASURED ON SITE BEFORE FABRICATION
ALL THE WORK SHOULD BE CARRIED OUT ACCORDING TO THE CONSULTANT

GENERAL

1. THE CONTRACTOR IS REQUIRED TO SUBMIT COORDINATED M&E PENETRATION DRAWINGS FOR APPROVAL.
2. ALL STRUCTURAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND SERVICE DRAWINGS, SPECIFICATIONS AND WRITTEN INSTRUCTIONS IF ISSUED DURING THE COURSE OF THE CONTRACT. ALL DISCREPANCIES SHALL BE REFEREED FOR DECISION BEFORE PROCEEDING WITH THE WORK. IF A CONFLICT OCCURS BETWEEN GENERAL SPECIFICATIONS AND ANY OF THESE DRAWINGS, THE INDIVIDUAL DRAWINGS SHALL GOVERN.
3. THE DRAWINGS SHALL NOT BE SCALED. ALL DIMENSIONS RELEVANT TO SETTING OUT AND OFF-SITE SHALL BE VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION AND FABRICATION IS COMMENCED.
4. DURING THE CONSTRUCTION PERIOD THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN THE STABILITY OF STRUCTURE AND ENSURE THAT NO STRUCTURAL ELEMENT BE OVERSTRESSED UNDER CONSTRUCTION ACTIVITIES.
5. WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE RELEVANT RECENT BS CODES OR OTHER ACCEPTABLE STANDARDS.
6. BASED ON THE DRAWINGS AND SPECIFICATIONS THE CONTRACTOR SHALL PRODUCE STRUCTURAL SHOP DRAWINGS FOR APPROVAL IF REQUESTED.
7. ALL DIMENSIONS TO STRUCTURAL DRAWINGS ARE IN MILLIMETERS UNLESS STATED OTHERWISE. ALL LEVELS ARE EXPRESSED IN METERS.
8. THE REINFORCED CONCRETE DESIGN IS BASED ON BS 8110 'STRUCTURAL USE OF CONCRETE'
9. REFER TO STANDARD AND TYPICAL DETAILS AS SHOWN IN THE TYPICAL DRAWINGS FOR DETAILS NOT SHOWN SPECIFICALLY.
10. ALL PROPS AND FRAMEWORK FOR BEAMS AND SLABS SHALL BE REMOVED BEFORE CONSTRUCTION OF ANY MASONRY WALLS OR OTHER PERMANENT LOADING ON THE SLAB.
11. ALL NON-LOAD BEARING WALLS SHALL BE KEPT CLEAR OFF THE UNDERSIDE OF SLABS AND BEAMS BY 30MM. THE JOINT SHALL BE FILLED WITH FIBRE BOARD OR COMPRESSIBLE MATERIAL PRESSED METAL COVERING BOTH SIDES OF THE JOINT, AND THE METAL COVERING SHALL BE FIXED TO SOFFIT OF THE BEAM OR SLAB AS THE CASE MAYBE.
12. THE CONTRACTOR IS REQUIRED TO SUBMIT A DRAWING SHOWING THE INTENDED SEQUENCE OF POURING, LOCATION AND DETAILS OF CONSTRUCTION JOINTS TO MINIMIZE THE POSSIBILITY OF OCCURRENCE OF SHRINKAGE CRACKS.
13. PRIOR TO COMMENCEMENT OF WORK THE CONTRACTOR SHALL SUBMIT THE FOLLOWING FOR THE APPROVAL BY THE EMPLOYER'S PERSONNEL:
    - 13.1. METHOD AND SEQUENCE OF CONSTRUCTION.
    - 13.2. DESIGN AND CALCULATION OF TEMPORARY SUPPORT TO EXCAVATION PREPARED AND APPROVED BY AN ACCREDITED GEOTECHNICAL ENGINEER.
    - 13.3. INSTRUMENTATION PROGRAMME TO MONITOR SOIL MOVEMENT, WATER TABLE AND SETTLEMENT.
    - 13.4. EFFECTS OF GROUND WATER LEVEL DRAW-DOWN.
    - 13.5. PRECAUTIONARY MEASURES TO AVOID DAMAGE TO NEIGHBORING BUILDING STRUCTURES.

FOUNDATIONS

1. ALL FOUNDATIONS HAS BEEN DESIGNED FOR SAFE GROUND PRESSURE OF 150 kN/m^2
2. ALL BACKFILL SHOULD BE DONE WITH APPROVED MATERIAL AND SOURCE. ALL BACKFILL SHOULD BE STRUCTURAL FILL, COMPACTED IN LAYERS AS SPECIFIED.
3. WEAK POCKETS FOUND BELOW THE ASSUMED FOUNDATION LEVELS SHALL BE REMOVED AND REPLACED BY PLAIN CONCRETE.
4. IN CASE OF EXCAVATIONS BELOW THE ASSUMED LEVEL OF THE FOUNDATION, THE SOIL SHALL BE REPLACED BY PLAIN CONCRETE.
5. IN CASE GROUND WATER IS PRESENT ABOVE FOUNDATION LEVEL, THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING THE SITE, AND LOWERING THE GROUND WATER TO AT LEAST 70 cm BELOW LEVEL OF FOUNDATIONS.
6. THE CONTRACTOR SHALL MAINTAIN DRY WORKING CONDITIONS THROUGHOUT THE CONSTRUCTION PERIOD. RESTORING WATER TABLE CAN BE DONE AFTER BACKFILLING AND COMPACTION UP TO THE SLAB ON GRADE LEVEL, OR AS DIRECTED BY THE ENGINEER.
7. NO BACK FILLING SHALL BE PLACED AGAINST WALLS RETAINING EARTH, UNLESS THE WALLS ACHIEVE SUFFICIENT STRENGTH TO PREVENT MOVEMENT OR STRUCTURAL DAMAGE.

CONCRETE

1. CEMENT SHALL BE ORDINARY PORTLAND CEMENT TO BS 12.
2. CONCRETE GRADE:
    - 2.1. ALL IN-SITU STRUCTURAL CONCRETE SHALL HAVE MINIMUM 28 DAYS CUBE STRENGTH OF 30 N/mm^2 TO THE RELEVANT CLAUSES OF BS5328.
    - 2.2. ALL PLAIN CONCRETE (OR BLINDING) SHALL HAVE MINIMUM 28 DAYS CUBE STRENGTH OF 15 N/mm^2, TO THE RELEVANT CLAUSES OF BS5328.
3. AGGREGATES SHALL BE TO BS 882 WITH A NOMINAL SIZE OF 20 mm
4. SULPHATE RESISTING CEMENT SHALL BE USED FOR ALL CONCRETE IN CONTACT WITH GARBAGE.
5. NO OPENINGS, HOLES, CHASES OR EMBEDMENT OF PIPES OTHER THAN THOSE IN THE STRUCTURAL DRAWINGS SHALL BE MADE IN CONCRETE MEMBERS WITHOUT PRIOR APPROVAL.
6. CONSTRUCTION AND EXPANSION JOINTS SHALL BE PROPERLY FORMED AND USED ONLY WHERE SHOWN OR SPECIFICALLY APPROVED.
7. NO ELECTRICAL CONDUIT AND PIPES ARE TO BE CAST IN COLUMNS OR THROUGH BEAMS WITHOUT PRIOR APPROVAL UNLESS OTHERWISE SHOWN IN THE DRAWINGS.
8. OPENING IN SLABS:
    - 8.1. FOR OPENING LESS THAN 300 x 300 mm, BARS SHALL BE RE-ARRANGED AROUND THE OPENING.
    - 8.2. FOR OPENINGS GREATER THAN 300 x 300 mm BUT LESS THAN 450 x 450 mm AND NOT SHOWN ON PLAN, PROVIDE 2 DIA 12 TOP AND BOTTOM ALONG EACH SIDE AND T16 DIAGONALLY AT CORNERS OR AS OTHERWISE DETAILED. AMOUNT OF BARS DISCONTINUED DUE TO THE OPENING SHALL BE PLACED AT THE RESPECTIVE SIDES.
    - 8.3. OPENINGS GREATER THAN 450 x 450 mm AND NOT SHOWN ON PLAN SHALL BE APPROVED.
9. SHEAR KEY SHALL BE PROVIDED AT ALL CONSTRUCTION JOINTS.
10. WATERPROOFING SYSTEM AS SPECIFIED IN THE SPECIFICATIONS SHALL BE USED IN STRUCTURAL ELEMENTS WHICH ARE CONTINUOUSLY IN CONTACT WITH SOIL OR WATER ON LIFT PIT, ROOF SLAB, R.C. RETAINING WALL AND RAFT ETC.
11. TO PROVIDE INTEGRAL SEALING BETWEEN CONCRETE CAST IN-SITU IN SEPARATE POUR, APPROVED WATERSTOP HAS TO BE INSTALLED FOR ALL CONSTRUCTION JOINTS IN CONTACT WITH WATER AND SOIL.
12. SPECIAL RULES REGARDING CONCRETING IN HOT WEATHER SHALL BE OBSERVED.

REINFORCEMENT

1. HIGH STRENGTH DEFORMED BARS DENOTED T SHALL CONFIRM TO BS-4449 WITH MINIMUM YIELD STRENGTH Fy= 460 N/mm^2, MILD STEEL DENOTED R SHALL HAVE 250 N/mm^2 YIELD STRENGTH. WELDED WIRE MESH SHALL COMPLY WITH BS-4483.
2. SPLICES IN REINFORCEMENT SHALL BE MADE ONLY IN THE POSITION SHOWN OR AS OTHERWISE APPROVED
3. SPACER BARS SHALL BE PROVIDED AT 100cm CENTERS WHEREVER REINFORCEMENT IS PLACED IN MORE THAN ONE LAYER, UNLESS STATED OTHERWISE
4. WELDING OF REINFORCEMENT SHALL NOT BE PERMITTED. IF REINFORCEMENT SHOULD BE WELDED, APPROVAL IS REQUIRED.
5. ALL REINFORCEMENT SHALL BE SUPPORTED IN ITS CORRECT POSITION DURING CONCRETING BY APPROVED BAR CHAIRS, SPACERS, OR SUPPORT BARS.
6. TYPICAL DEVELOPMENT AND SPLICES OF DEFORMED BARS WITH Fy = 460 N/mm^2 AND Fcu = 30 N/mm^2, (CUBE STRENGTH) SHALL BE AS FOLLOWS, UNLESS OTHERWISE MENTIONED IN DRAWINGS:
    - 6.1. BASIC TENSION DEVELOPMENT LENGTH, LD = 56 x BAR DIA
    - 6.2. MINIMUM COMPRESSION DEVELOPMENT LENGTH, LDC = 40 x BAR DIA (OR 300mm WHICH EVER IS MORE)
7. BENDING OF REINFORCEMENTS SHALL BE IN ACCORDANCE WITH BS 4466.

ABBREVIATIONS

APPROX	-APPROXIMATE
B	-BEAM
B.W.	-BOTH WAYS
BOT OR BTM	-BOTTOM
BOB	-BOTTOM OF BASE
BOS	-BOTTOM OF STEEL
BOT	-BOTTOM OF TRUSS
(B1)	-BOTTOM STEEL BOTTOM REINFORCEMENT
(B2)	-BOTTOM STEEL TOP REINFORCEMENT
BLDG	-BUILDING
℄	-CENTER LINE
C/C	-CENTER TO CENTER
C	-COLUMN
CO-ORD	-CO-ORDINATE
DPC	-DAMP PROOF COURSE
DET OR DTL	-DETAIL
DIA	-DIAMETER
D/B	-DISTRIBUTION BAR
DWG	-DRAWING
EF	-EACH FACE
EW	-EACH WAY
EL	-ELEVATION (HEIGHT)
ELEV	-ELEVATION (VIEW)
FF	-FAR FACE
FS	-FAR SIDE
FW	-FILLET WELD
FFL	-FINISHED FLOOR LEVEL
FDN OR FND	-FOUNDATION
FB	-FOUNDATION BEAM
GA	-GENERAL ARRANGEMENT
G.I.	-GALVANIZED IRON
IL	-INVERT LEVEL
LG	-LONG OR LENGTH
MAX	-MAXIMUM
MKD	-MARKED
MIN	-MINIMUM
MISC	-MISCELLANEOUS
N/F	-NEAR FACE
N/S	-NEAR SIDE
NOM	-NOMINAL
NTS	-NOT TO SCALE
Nos	-NUMBERS
O/D	-OUTSIDE DIAMETER
PL	-PAVEMENT LEVEL
PROJ	-PROJECTION
QTY	-QUANTITY
RAD	-RADIUS
R.C.	-REINFORCED CONCRETE
REQ'D	-REQUIRED
SW	-SHEAR WALL
STIFF	-STIFFENER
SQ	-SQUARE
SFL	-STRUCTURAL FINISH LEVEL
THK	-THICK (NESS)
TEMP	-TEMPORARY
TOB	-TOP OF BEAM
TOC	-TOP OF COLUMN
TOG	-TOP OF GROUT
TO Platf	-TOP OF PLATFORM
TS	-TOP OF SLAB
TOS	-TOP OF STEEL
TOT	-TOP OF TRUSS
TYP	-TYPICAL
U/S	-UNDERSIDE
UNO	-UNLESS NOTED OTHERWISE
(T1)	-TOP STEEL TOP REINFORCEMENT
(T2)	-TOP STEEL BOTTOM REINFORCEMENT
(UPB)	-UPSTAND BEAM

PROJECT :
R. VANDHOO
PROJECT: SOLID WASTE MANAGEMENT FACILITY
CLIENT : MINISTRY OF ENVIRONMENT AND ENERGY
CONSULTANT : **HUSSAIN SHAHEED**

DRAWN BY : ARIF
CHECKED BY : HUSSAIN SHAHEED
TITLE : AS GIVEN
SCALE : AS GIVEN DATE:19.01.2019
PG NO.

DWG NO: VAN-TD-09-G-1.01-R0
REV. NO: R0-190119/01
REV. NOTES
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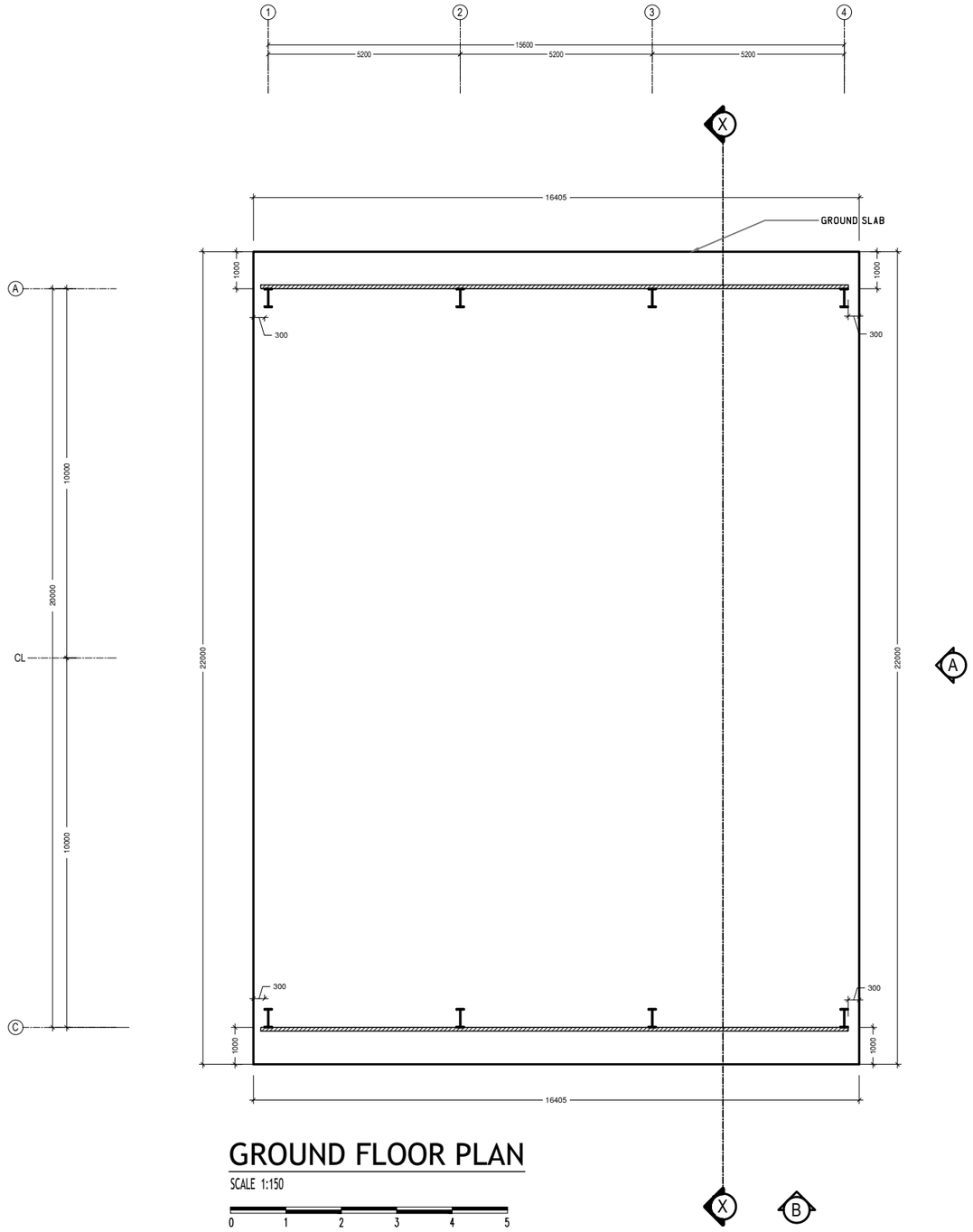
APPROVED BY:
APPROVED DATE:



GROUND FLOOR PLAN

SCALE 1:150

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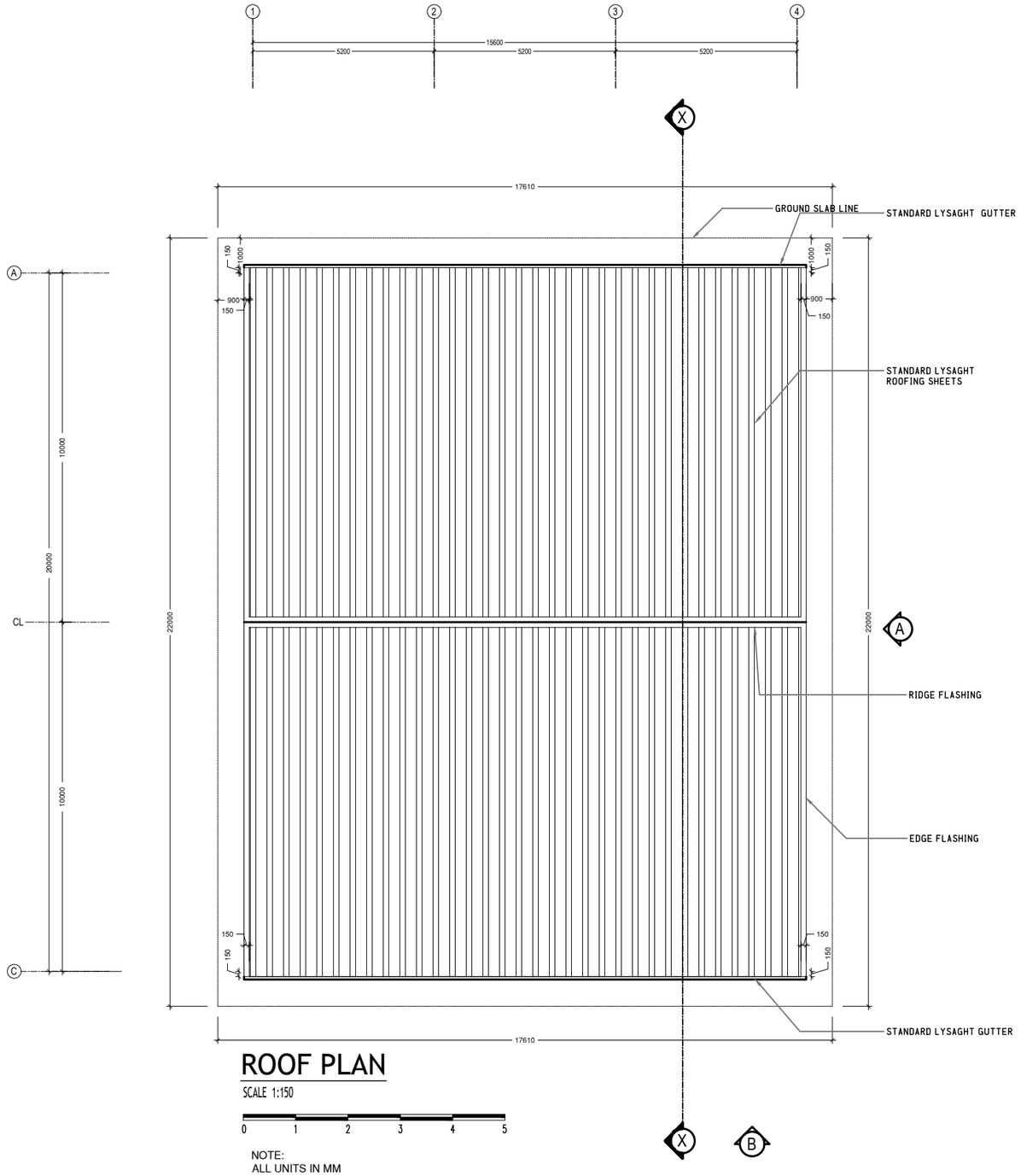
NOTE:
ALL UNITS IN MM



ROOF PLAN

SCALE 1:150

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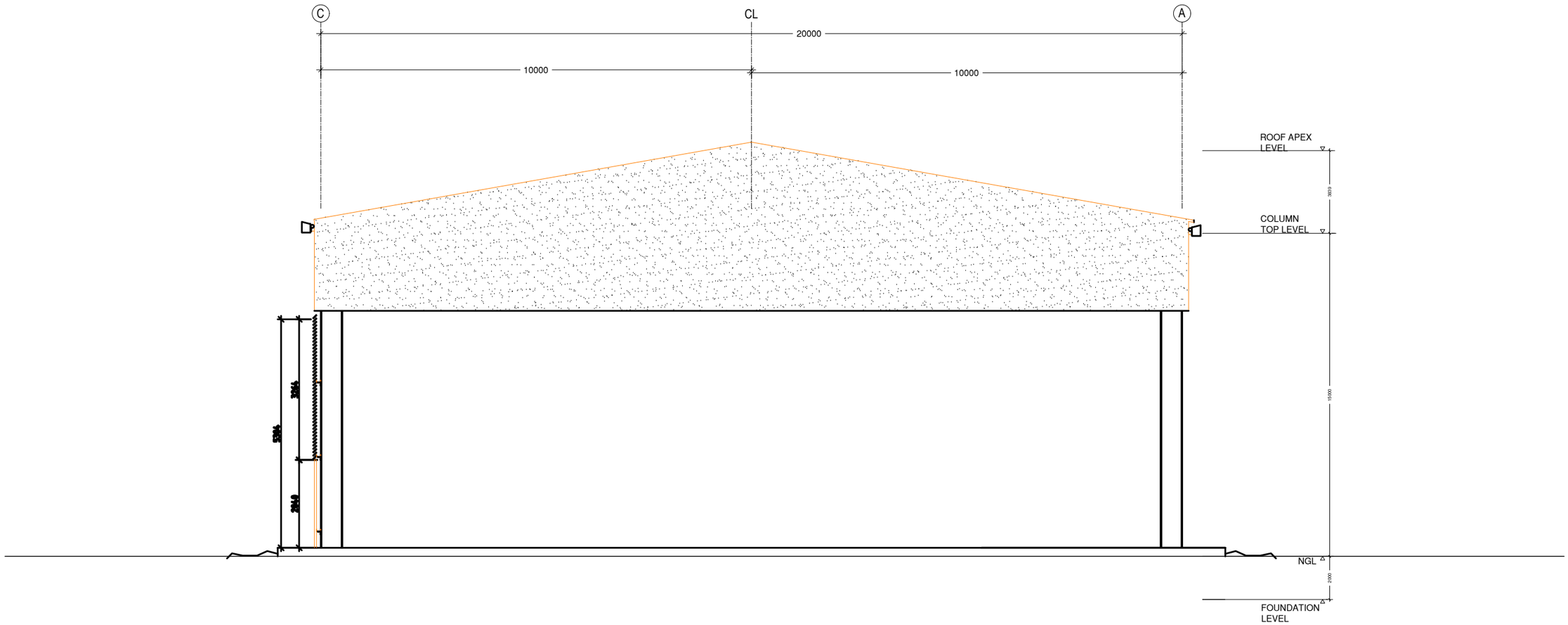
NOTE:
ALL UNITS IN MM

PROJECT : **R. VANDHOO** **PROJECT: SOLID WASTE MANAGEMENT FACILITY** CLIENT : MINISTRY OF ENVIRONMENT AND ENERGY CONSULTANT : **HUSSAIN SHAHEED**	DRAWN BY : ARIF CHECKED BY : HUSSAIN SHAHEED TITLE : AS GIVEN SCALE : AS GIVEN DATE:19.01.2019 PG NO.	DWG NO: VAN-TD-09-G-1.02-R0 REV. NO: R0-190119/01 REV. NOTES - - - - - -	APPROVED BY: APPROVED DATE:



FRONT ELEVATION

ELEVATION A

SCALE 1:100

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NOTE:
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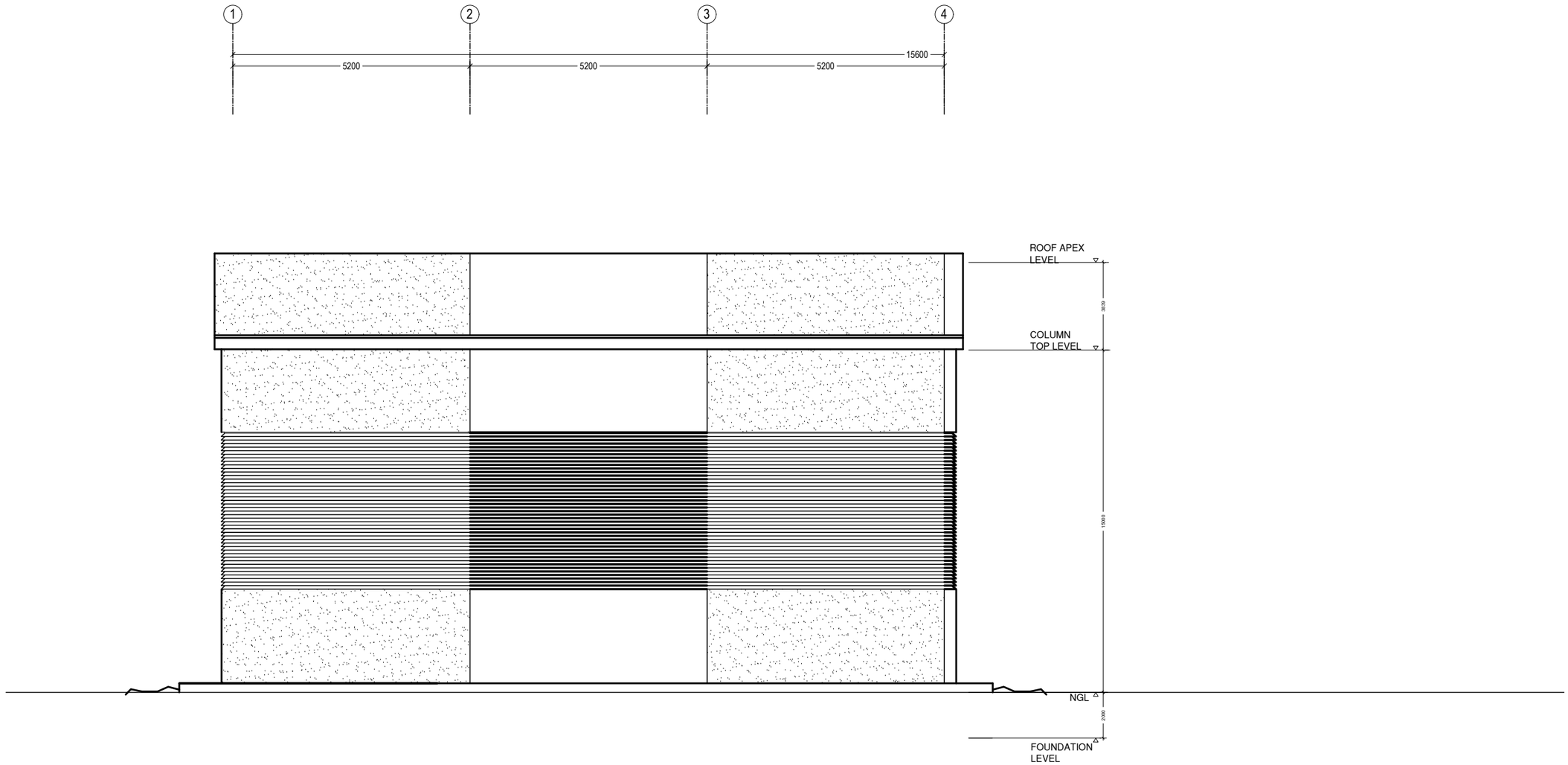

ELEVATION B

SCALE 1:100

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NOTE:
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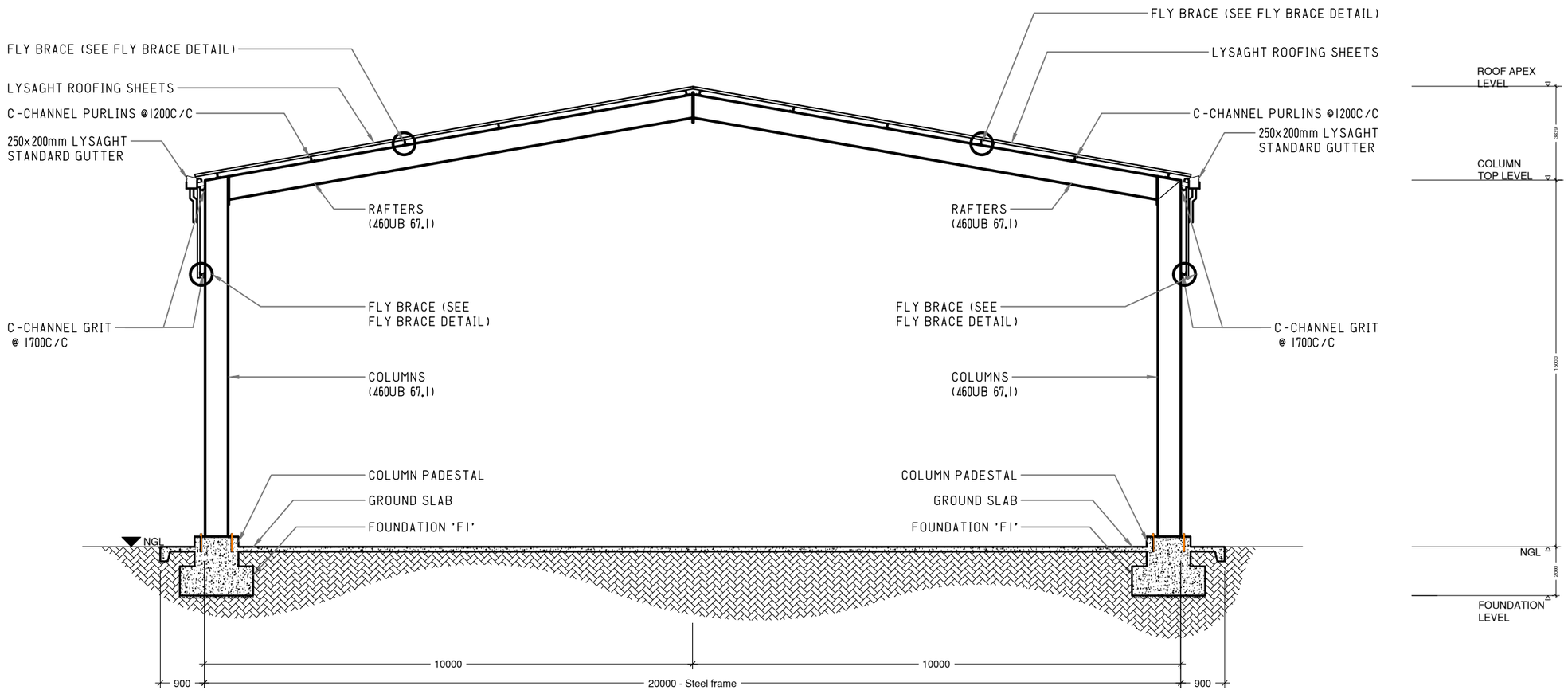
STRUCTURAL NOTES:
STEEL STRENGTHS USED IN DESIGN OF PORTAL FRAME

RAFTERS	460UB 67.1	yield stress	310 MPa
COLUMNS	460UB 67.1	yield stress	310 MPa
END WALL COLUMNS	350 UB	yield stress	310 MPa
ROOF BRACING MEMBERS	90 x 90 x 6 EA	yield stress	320 MPa
WALL BRACING MEMBERS	75 x 75 x 5 EA	yield stress	320 MPa
STRUTS	114 x 4.5 CHS	yield stress	250 MPa

* ALL TRUSS MEMBERS AND PLATES IN CONNECTIONS SHALL HAVE A YIELD STRENGTH OF 250MPa
* ALL BOLTS SHALL HAVE TENSILE STRENGTH OF 830 MPa
* ALL WELDS SHALL HAVE A NOMINAL TENSILE STRENGTH 480 MPa

NOTE:
PURLINS SPACED AT 1200 C/C
GRITS SPACES AT 1700 C/C
FB = FLY BRACE (SEE FLY BRACE DETAIL)



STRUCTURAL SECTION @ GRID 4

SCALE 1:100

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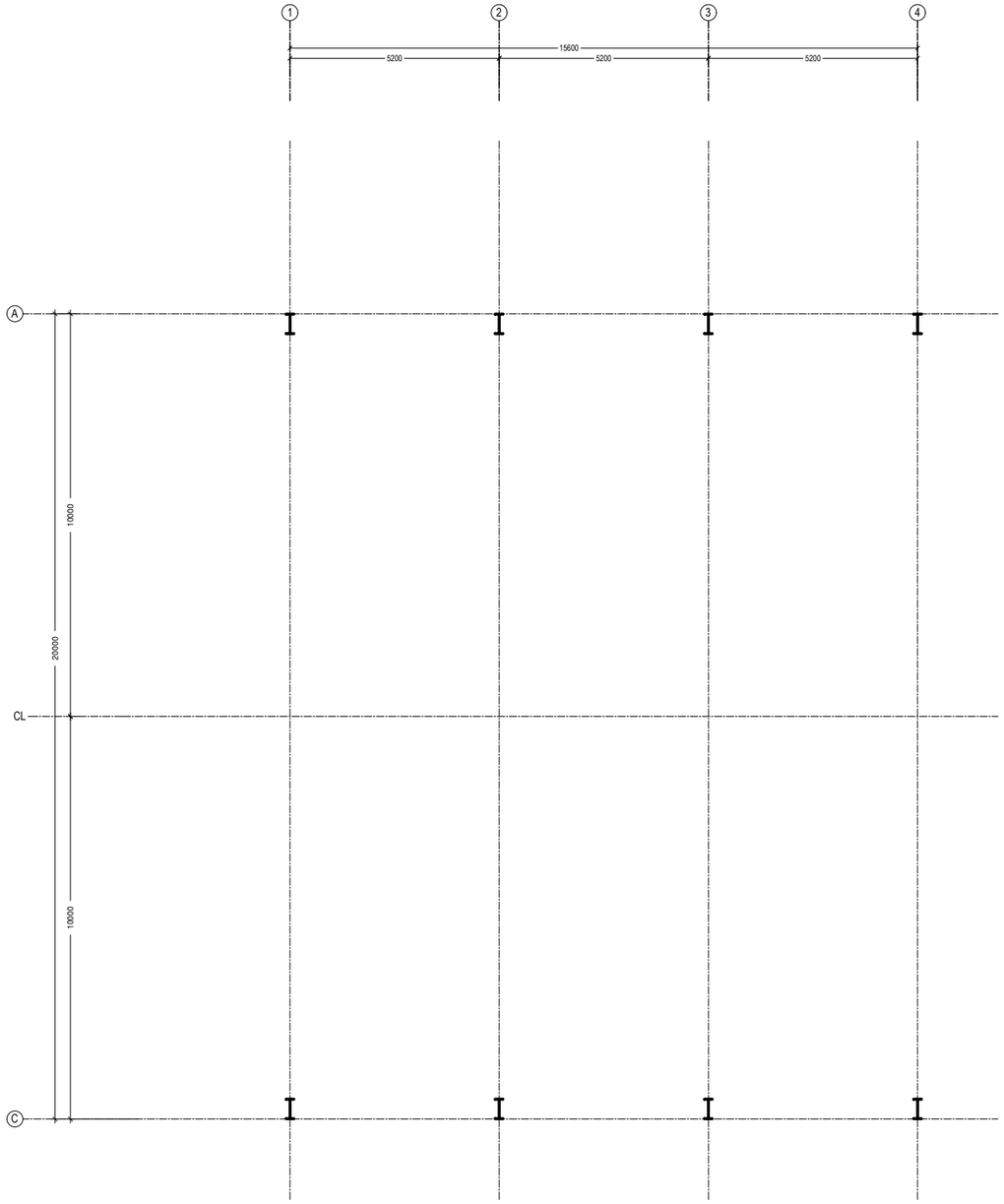
NOTE:
ALL UNITS IN MM

PROJECT : **R. VANDHOO PROJECT: SOLID WASTE MANAGEMENT FACILITY** CLIENT : MINISTRY OF ENVIRONMENT AND ENERGY CONSULTANT : **HUSSAIN SHAHEED**	DRAWN BY : ARIF CHECKED BY : HUSSAIN SHAHEED TITLE : AS GIVEN SCALE : AS GIVEN DATE:19.01.2019 PG NO.	DWG NO: VAN-TD-09-G-1.05-R0 REV. NO: R0-190119/01 REV. NOTES - - - - - -	APPROVED BY: APPROVED DATE:



COLUMN LOCATION PLAN

SCALE 1:150

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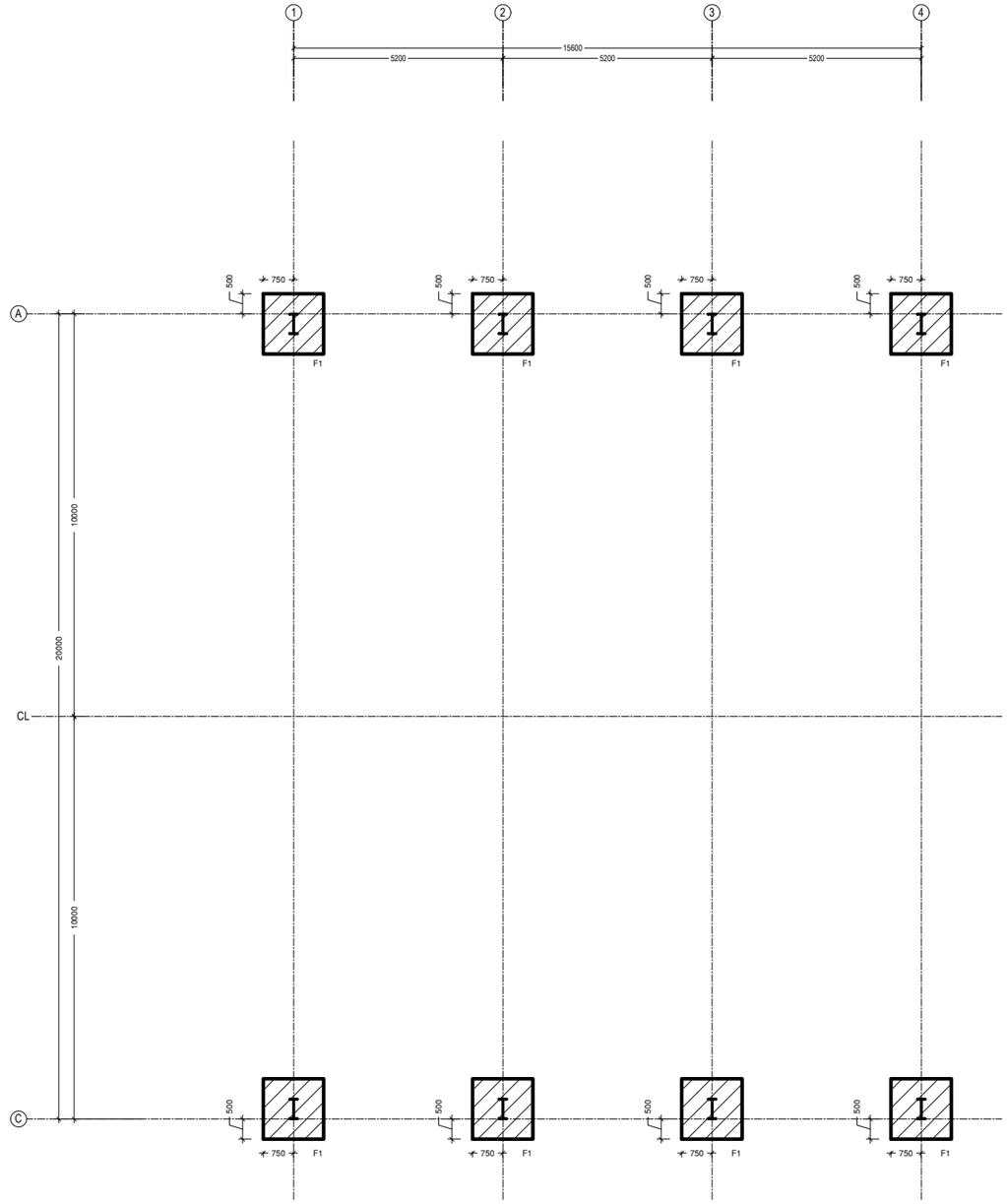
NOTE:
ALL UNITS IN MM



FOUNDATION PLAN

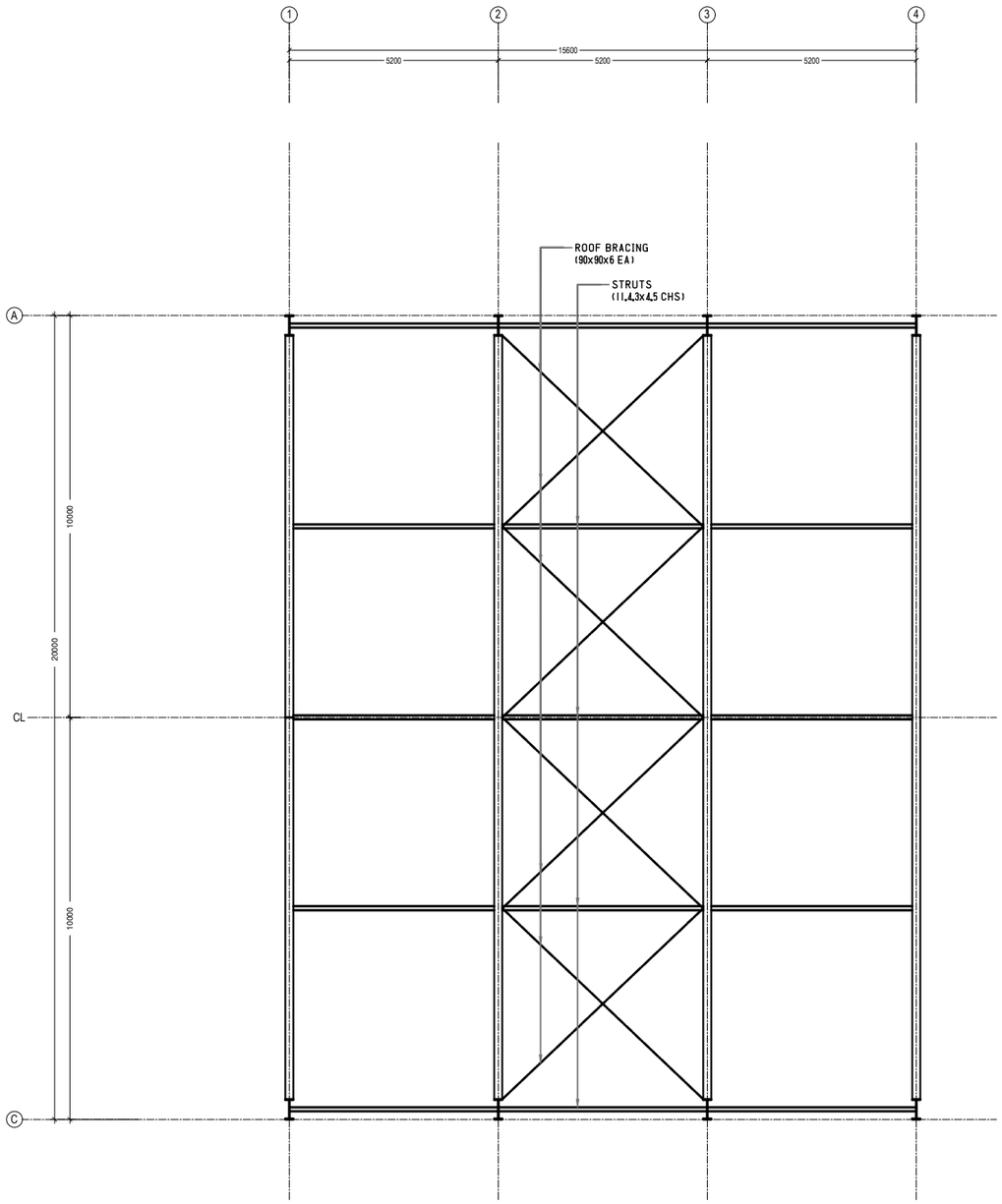
SCALE 1:150

0 1 2 3 4 5

NOTE:
ALL UNITS IN MM

NOTE: FOUNDATION DEPTH = 1000mm

PROJECT : **R. VANDHOO** **PROJECT: SOLID WASTE MANAGEMENT FACILITY** CLIENT : MINISTRY OF ENVIRONMENT AND ENERGY CONSULTANT : **HUSSAIN SHAHEED**	DRAWN BY : ARIF CHECKED BY : HUSSAIN SHAHEED TITLE : AS GIVEN SCALE : AS GIVEN DATE:19.01.2019 PG NO.	DWG NO: VAN-TD-09-G-1.06-R0 REV. NO: R0-190119/01 REV. NOTES - - - - - -	APPROVED BY: APPROVED DATE:



ROOF STRUCTURE PLAN

SCALE 1:150

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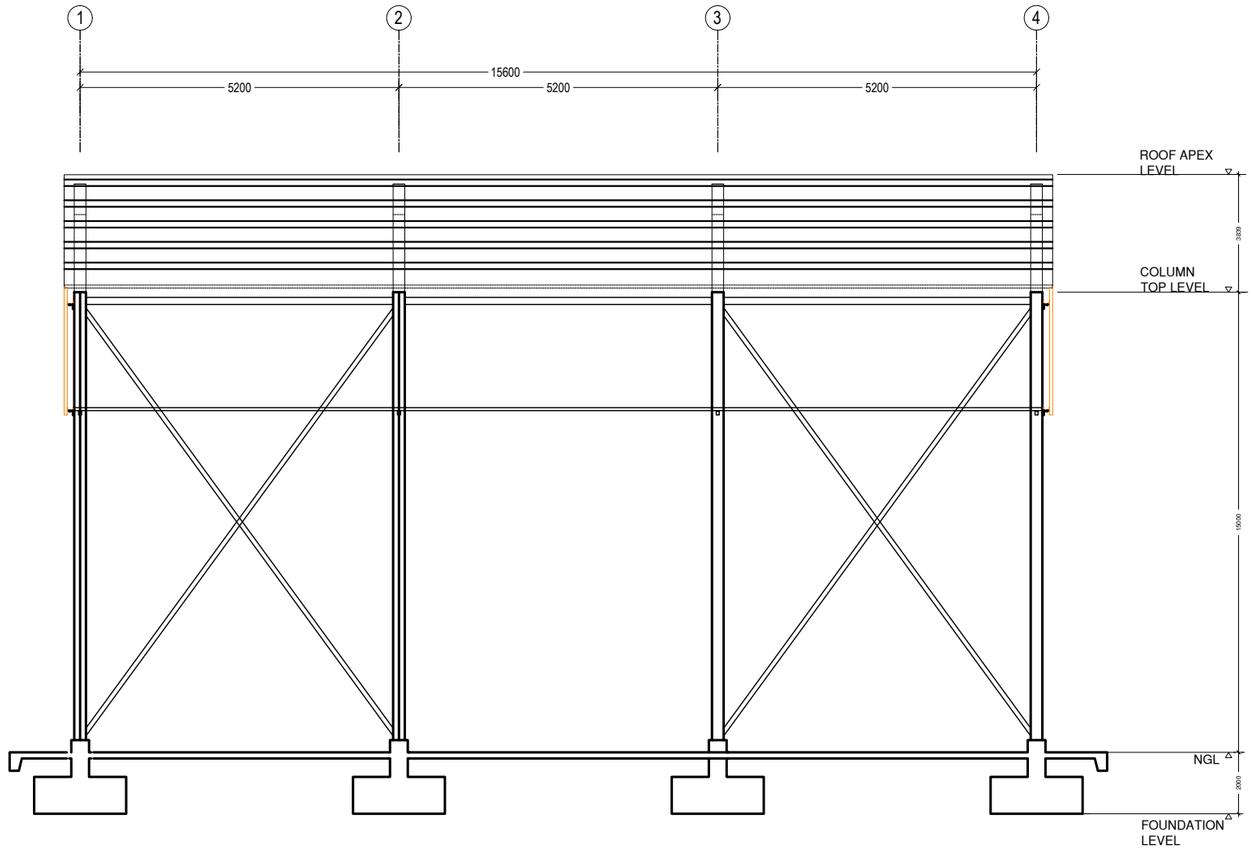
NOTE:
ALL UNITS IN MM



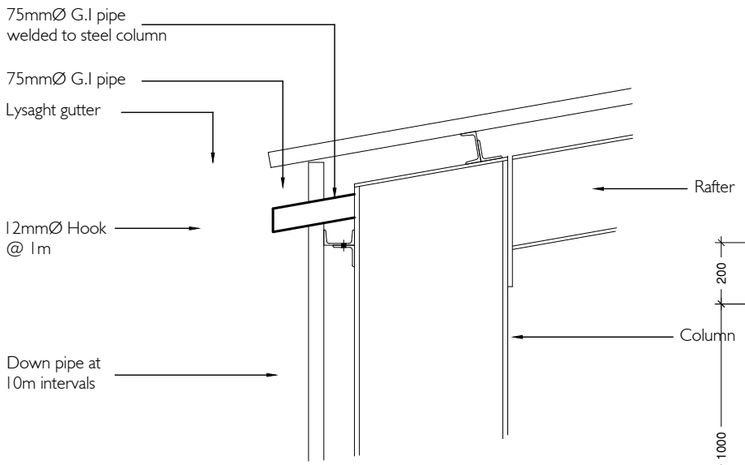
STRUCTURAL SECTION @ GRID A

SCALE 1:100

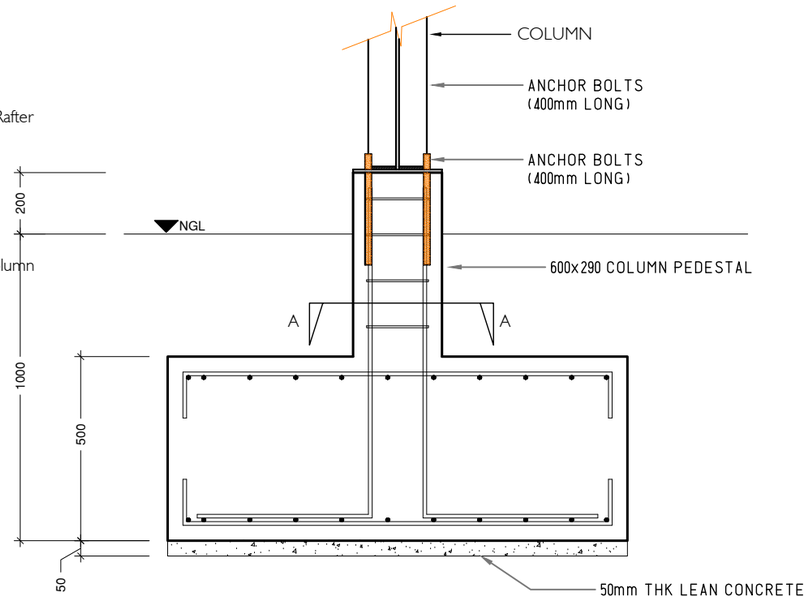
0 1 2 3 4 5

NOTE:
ALL UNITS IN MM

PROJECT : **R. VANDHOO** **PROJECT: SOLID WASTE MANAGEMENT FACILITY** CLIENT : MINISTRY OF ENVIRONMENT AND ENERGY CONSULTANT : **HUSSAIN SHAHEED**	DRAWN BY : ARIF CHECKED BY : HUSSAIN SHAHEED TITLE : AS GIVEN SCALE : AS GIVEN DATE:19.01.2019 PG NO.	DWG NO: VAN-TD-09-G-1.07-R0 REV. NO: R0-190119/01 REV. NOTES - - - - - -	APPROVED BY: APPROVED DATE:

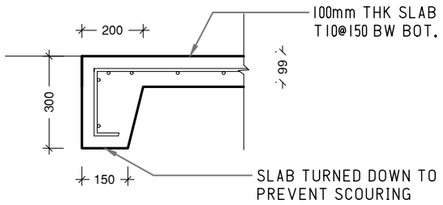


GUTTER FIXING DETAIL



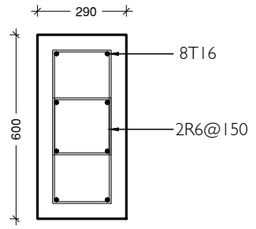
FOUNDATION PAD 'F1 - SECTION

SCALE 1:20



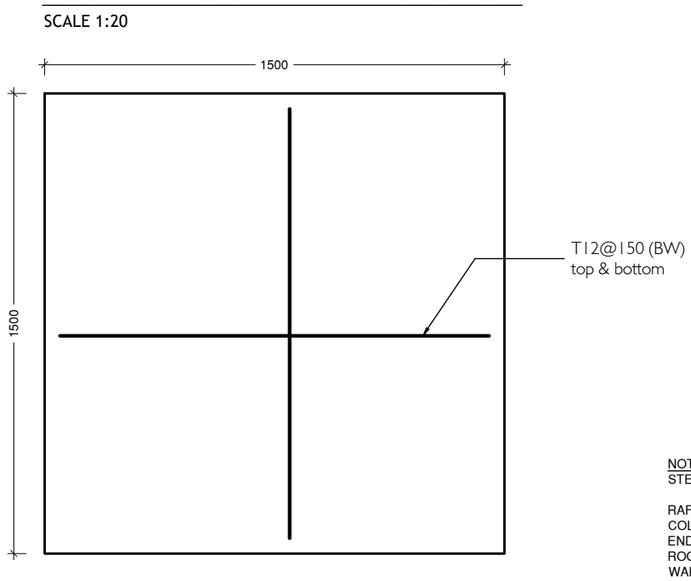
DETAIL A - GROUND SLAB AT PERIMETER EDGE

SCALE 1:20



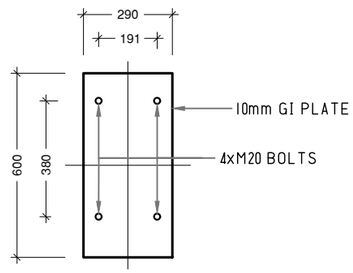
COLUMN PEDESTAL DETAIL

SCALE 1:20



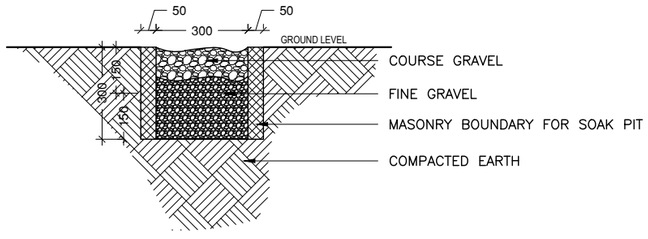
FOUNDATION PAD 'F1' - PLAN

SCALE 1:20



COLUMN BASEPLATE DETAIL

SCALE 1:20



TYPICAL SOAKPIT DETAIL

SCALE 1:20

NOTES:
STEEL STRENGTHS USED IN DESIGN OF PORTAL FRAME

RAFTERS	460UB 67.1	yield stress	310 MPa
COLUMNS	460UB 67.1	yield stress	310 MPa
END WALL COLUMNS	350 UB	yield stress	310 MPa
ROOF BRACING MEMBERS	90 x 90 x 6 EA	yield stress	320 MPa
WALL BRACING MEMBERS	75 x 75 x 5 EA	yield stress	320 MPa
STRUTS	114 x 4.5 CHS	yield stress	250 MPa

* ALL TRUSS MEMBERS AND PLATES IN CONNECTIONS SHALL HAVE A YIELD STRENGTH OF 250MPa
* ALL BOLTS SHALL HAVE TENSILE STRENGTH OF 830 MPa
* ALL WELDS SHALL HAVE A NOMINAL TENSILE STRENGTH 480 MPa

PROJECT :
R. VANDHOO
PROJECT: SOLID WASTE MANAGEMENT FACILITY
CLIENT : MINISTRY OF ENVIRONMENT AND ENERGY
CONSULTANT : **HUSSAIN SHAHEED**

DRAWN BY : ARIF
CHECKED BY : HUSSAIN SHAHEED
TITLE : AS GIVEN
SCALE : AS GIVEN DATE:19.01.2019
PG NO.

DWG NO: VAN-TD-09A-G-1.08-R0
REV. NO: R0-190119/01
REV. NOTES
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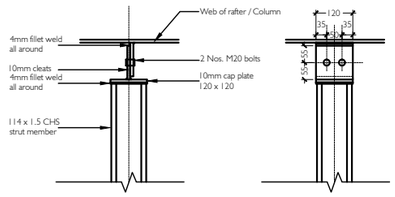
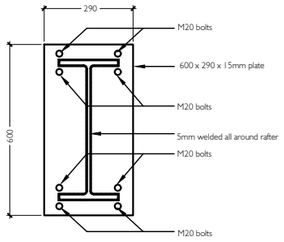
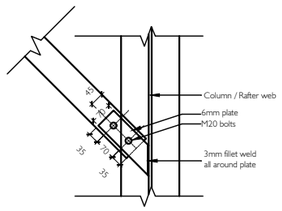
APPROVED BY:
APPROVED DATE:



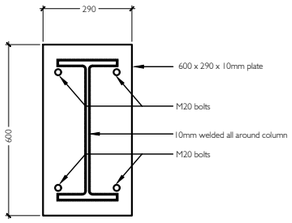
STRUT CONNECTION



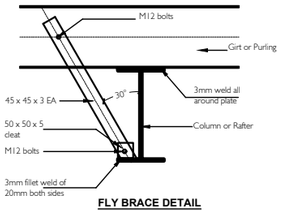
RIDGE CONNECTION DETAIL



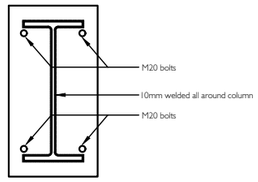
WALL / ROOF BRACING



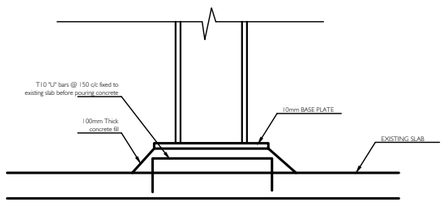
BASE PLATE DETAIL



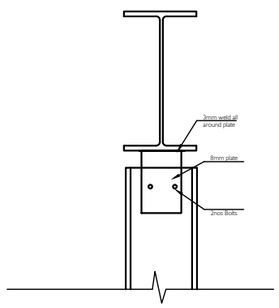
FLY BRACE DETAIL



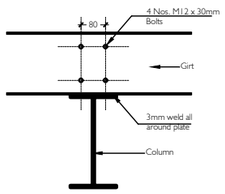
PURLIN / GIRT CONNECTION



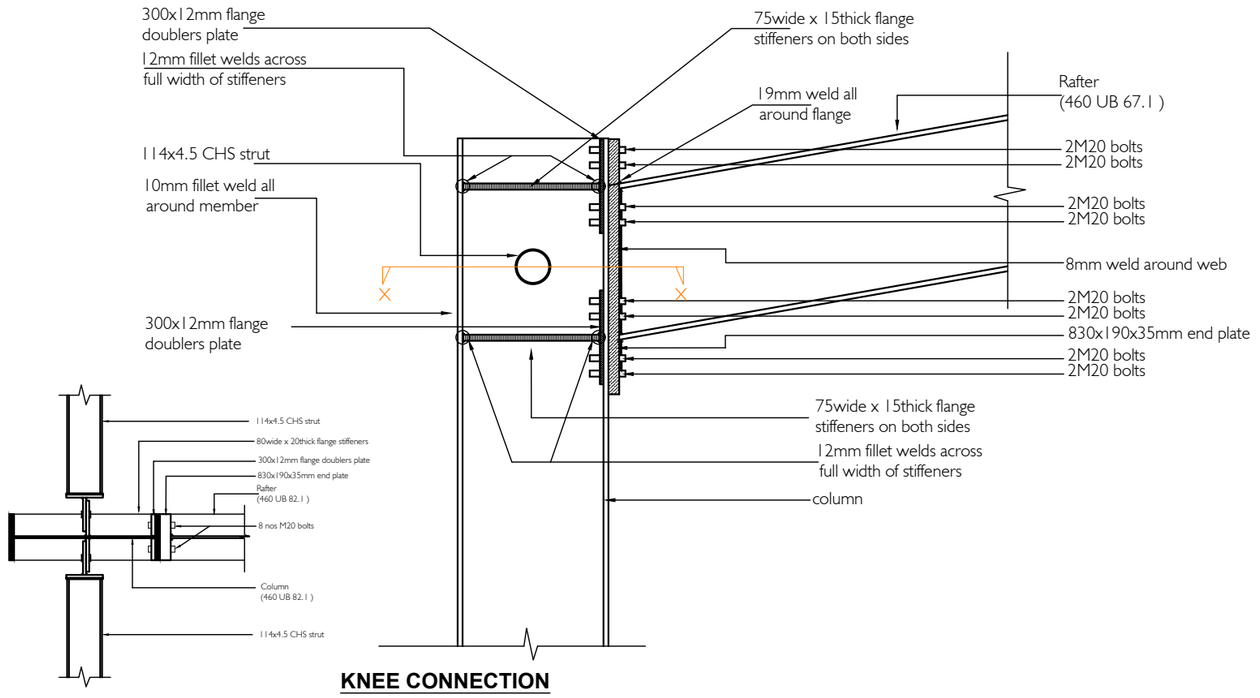
END WALL BASE CONNECTION



END WALL TOP CONNECTION



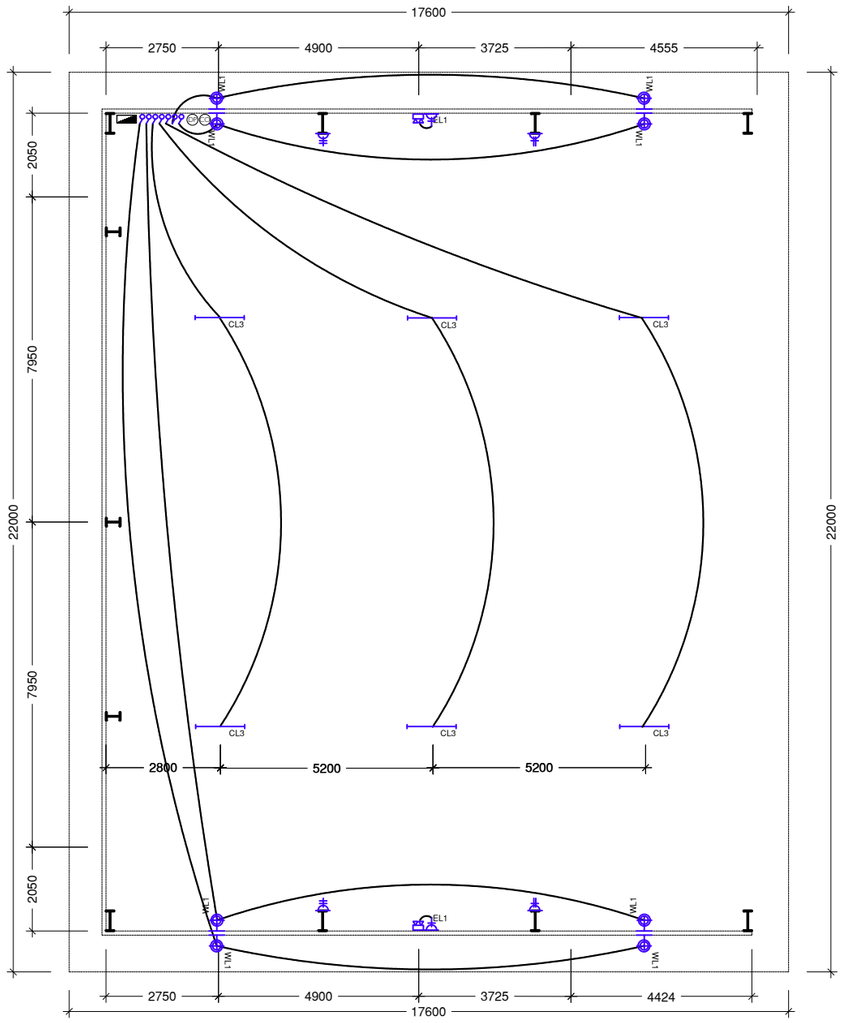
GIRT CONNECTION



KNEE CONNECTION

SECTION X-X

PROJECT : **R. VANDHOO PROJECT: SOLID WASTE MANAGEMENT FACILITY** CLIENT : MINISTRY OF ENVIRONMENT AND ENERGY CONSULTANT : **HUSSAIN SHAHEED**	DRAWN BY : ARIF CHECKED BY : HUSSAIN SHAHEED TITLE : AS GIVEN SCALE : AS GIVEN DATE:19.01.2019 PG NO.	DWG NO: VAN-TD-09A-G-1.09-R0 REV. NO: R0-190119/01 REV. NOTES - - - - - -	APPROVED BY: APPROVED DATE:



LEGEND - ELECTRICAL

SYMBOL	DESCRIPTION
	INHOUSE DISTRIBUTION BOARD
	MAIN DISTRIBUTION BOARD
	FAN CONTROLLER
	2WAY SWITCH SINGLE GANG (UOS)
	1WAY SWITCH SINGLE GANG
	13A X 1G POWER SOCKET @ 300 FFL (UOS)
	13A X 2G POWER SOCKET @ 300 FFL (UOS)
	15A X 1G POWER SOCKET @ CEILING LEVEL
D	DATA SOCKET (RJ45) @ 300 FFL (UOS)
T	TELEPHONE COCKET (RJ11) @ 300 FFL (UOS)
TV	TV SOCKET (RF) @ 300 FFL (UOS)
WL1	WALL MOUNTED LIGHT FITTING
CL1	CEILING MOUNTED LIGHT FITTING
CL2	CF TUBE LIGHT (4')
CL3	CF TUBE LIGHT (4')
EL1	EMERGENCY LIGHT (2HR)
	CEILING FAN
	AC UNIT
	EXHAUST FAN
EXIT	EXIT SIGN
W	FIRE EXTINGUISHER - WATER
DP	FIRE EXTINGUISHER - DRY POWDER
CO	FIRE EXTINGUISHER - CO2
	WATER SPRINKLER WITH IONIZATION SMOKE DETECTOR

GENERAL NOTE:
*UOS - UNLESS OTHERWISE STATED
1. ALL TOILET EXHAUSTS SHALL BE CONNECTED TO TOILET LIGHT SWITCHES

ELECTRIAL POWER AND LIGHTING PLAN

SCALE 1:100

0 1 2 3 4 5

NOTE:
ALL UNITS IN MM

PROJECT : **R. VANDHOO** **PROJECT: SOLID WASTE MANAGEMENT FACILITY** CLIENT : MINISTRY OF ENVIRONMENT AND ENERGY CONSULTANT : **HUSSAIN SHAHEED**	DRAWN BY : ARIF CHECKED BY : HUSSAIN SHAHEED TITLE : AS GIVEN SCALE : AS GIVEN DATE:19.01.2019 PG NO.	DWG NO: VAN-TD-09A-G-1.10-R0 REV. NO: R0-190119/01 REV. NOTES - - - - - -	APPROVED BY: APPROVED DATE: