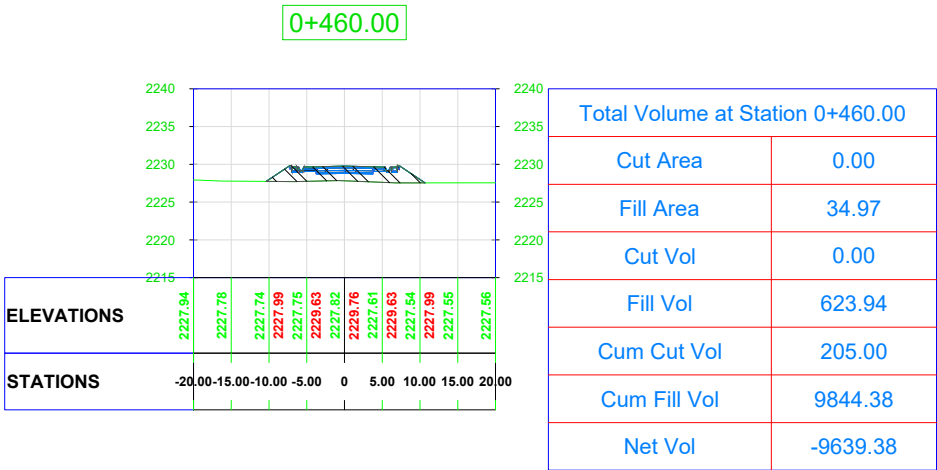
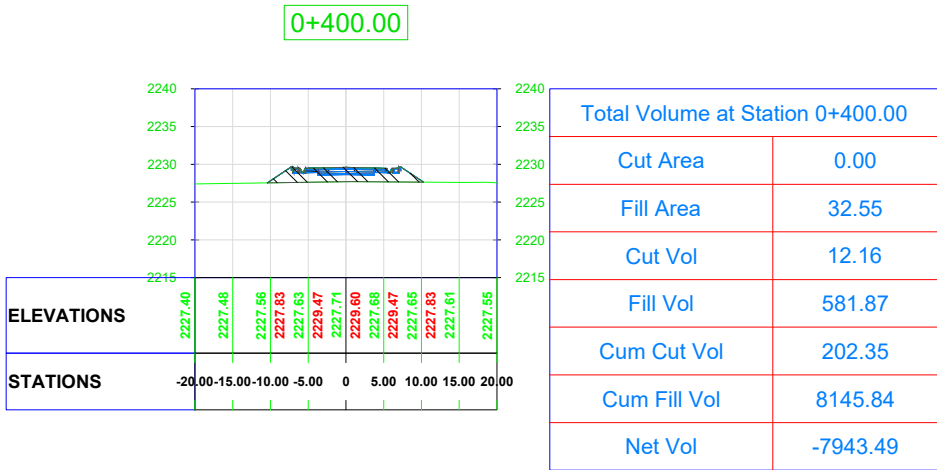
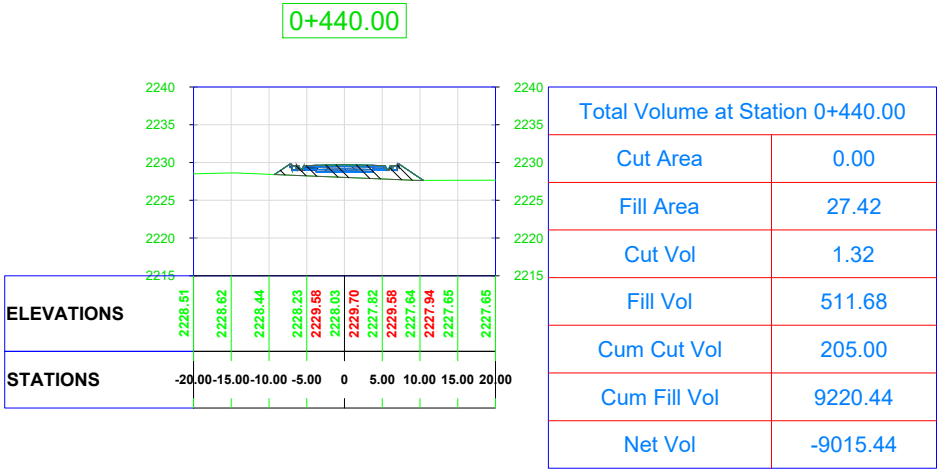
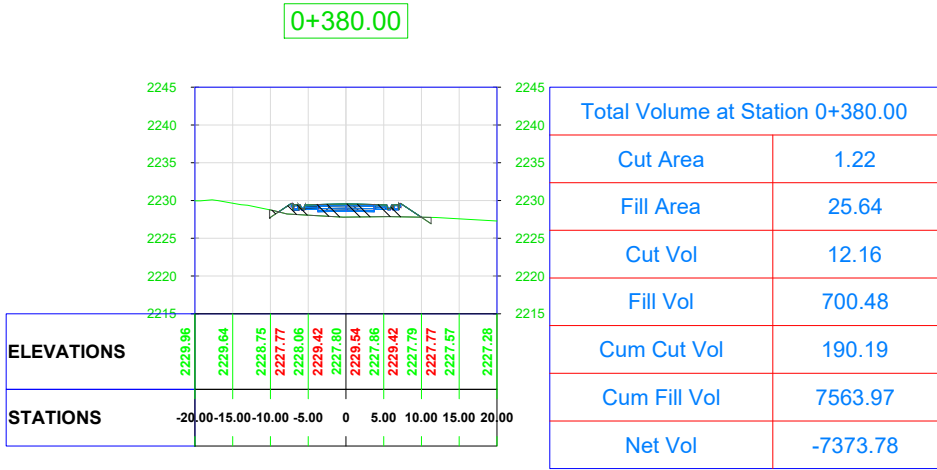
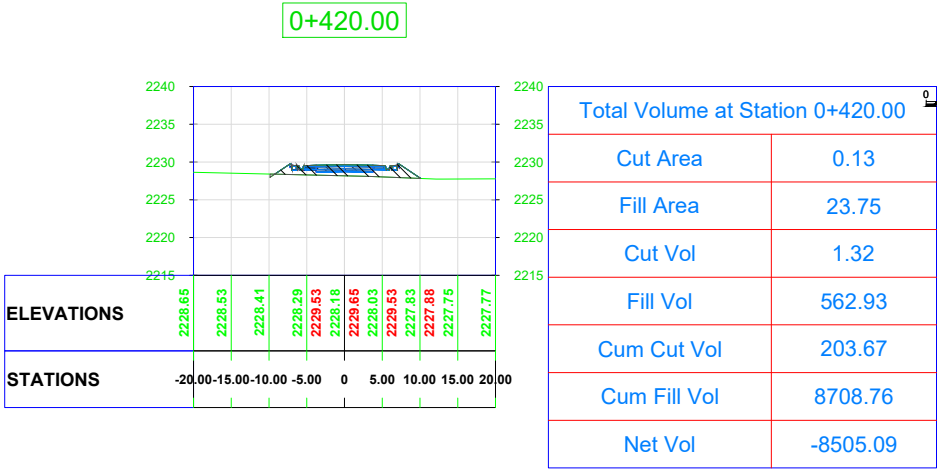
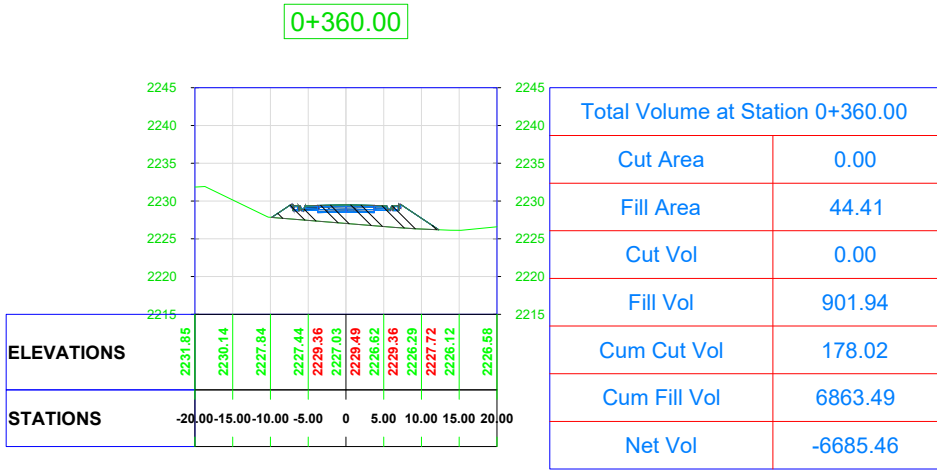




General Notes

ALL LEVELS AND DIMENSIONS
ARE IN METER UNLESS
INDICATED OTHERWISE.
CONTOURS INTERVAL @
300mm

CLIENT:



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PROJECT:
CONSULTANCY SERVICES FOR THE
PREPARATION OF DETAILED
DESIGN, PROCUREMENT SUPPORT
AND CONSTRUCTION SUPERVISION
OF NEW AIRTRAFFIC CONTROL
TOWER (ATCT), FIRE STATION AND
ALLIED FACILITIES AT SKARDU
INTERNATIONAL AIRPORT, SKARDU

DRAWING TITLE:
ATC TOWER TO OLD RUNWAY PAA
RUNWAY SECTION

DRAWN BY: ENGR. MUHAMMAD MANZOR

CHECKED BY: ENGR. MURTAZA

FILE PATH: D:\NA

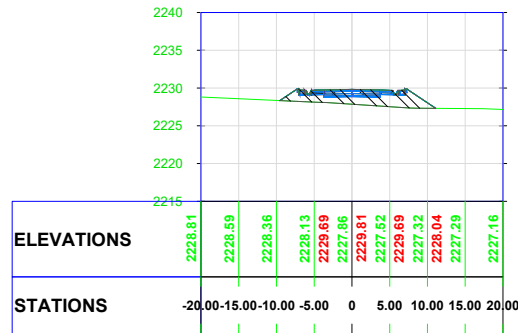
DRAWING NO: R-17

SCALE:

DATE: 28/12/2025

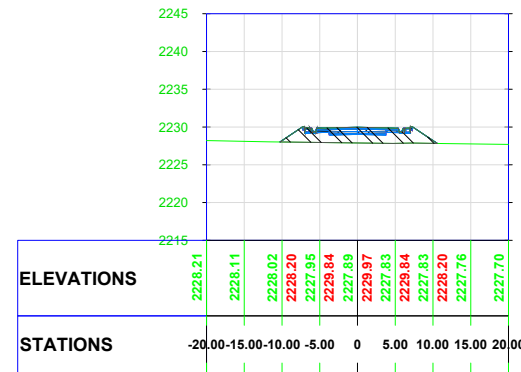
SHEET: 04

0+480.00



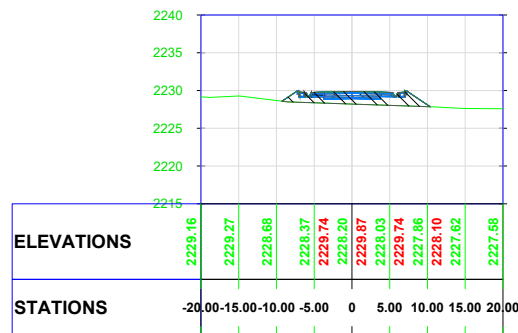
Total Volume at Station 0+480.00	
Cut Area	0.00
Fill Area	33.71
Cut Vol	0.00
Fill Vol	686.77
Cum Cut Vol	205.00
Cum Fill Vol	10531.15
Net Vol	-10326.15

0+540.00



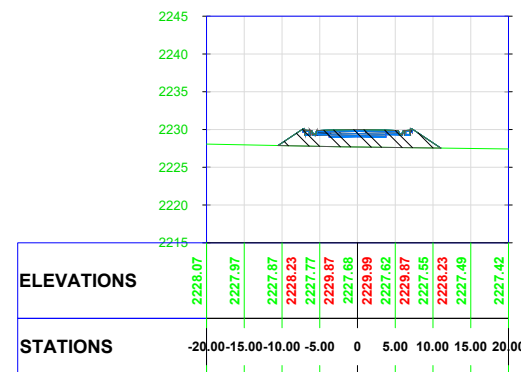
Total Volume at Station 0+540.00	
Cut Area	0.00
Fill Area	35.04
Cut Vol	0.32
Fill Vol	598.97
Cum Cut Vol	205.63
Cum Fill Vol	12257.52
Net Vol	-12051.89

0+500.00



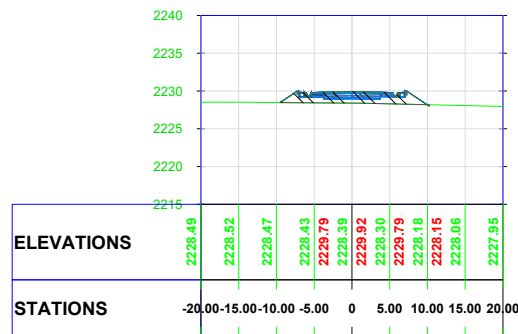
Total Volume at Station 0+500.00	
Cut Area	0.00
Fill Area	27.09
Cut Vol	0.00
Fill Vol	607.92
Cum Cut Vol	205.00
Cum Fill Vol	11139.07
Net Vol	-10934.08

0+560.00



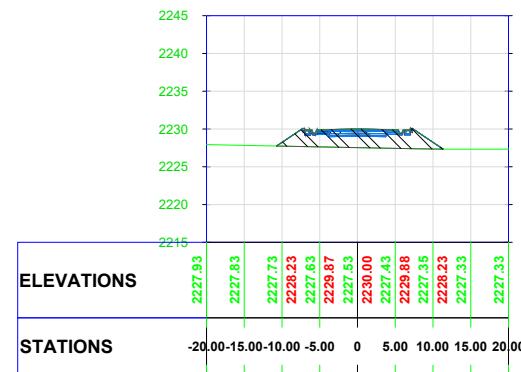
Total Volume at Station 0+560.00	
Cut Area	0.00
Fill Area	40.10
Cut Vol	0.00
Fill Vol	751.34
Cum Cut Vol	205.63
Cum Fill Vol	13008.87
Net Vol	-12803.24

0+520.00



Total Volume at Station 0+520.00	
Cut Area	0.03
Fill Area	24.86
Cut Vol	0.32
Fill Vol	519.48
Cum Cut Vol	205.31
Cum Fill Vol	11658.55
Net Vol	-11453.24

0+580.00



Total Volume at Station 0+580.00	
Cut Area	0.00
Fill Area	43.81
Cut Vol	0.00
Fill Vol	839.12
Cum Cut Vol	205.63
Cum Fill Vol	13847.99
Net Vol	-13642.36

General Notes

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INTERNATIONAL AIRPORT, SKARDU

DRAWING TITLE:

ATC TOWER TO OLD RUNWAY PAA
RUNWAY SECTION

DRAWN BY: ENGR. MUHAMMAD MANZOOR

CHECKED BY: ENGR. MURTAZA

FILE PATH: D:\NA

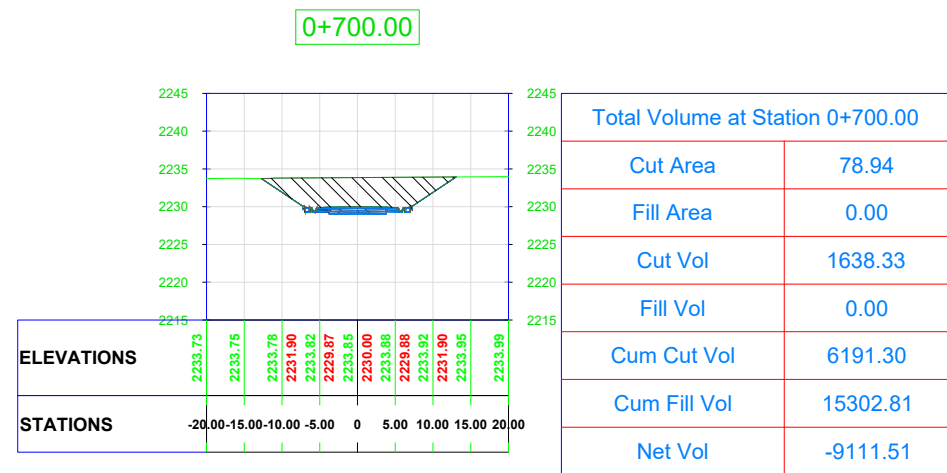
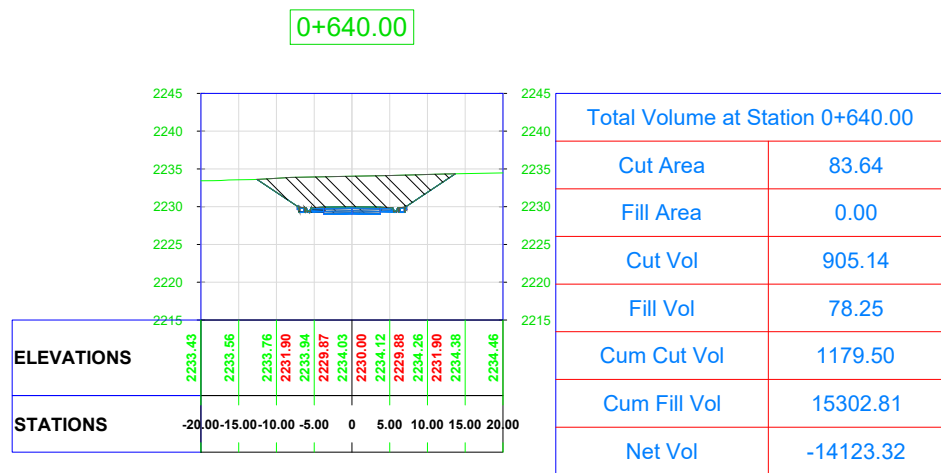
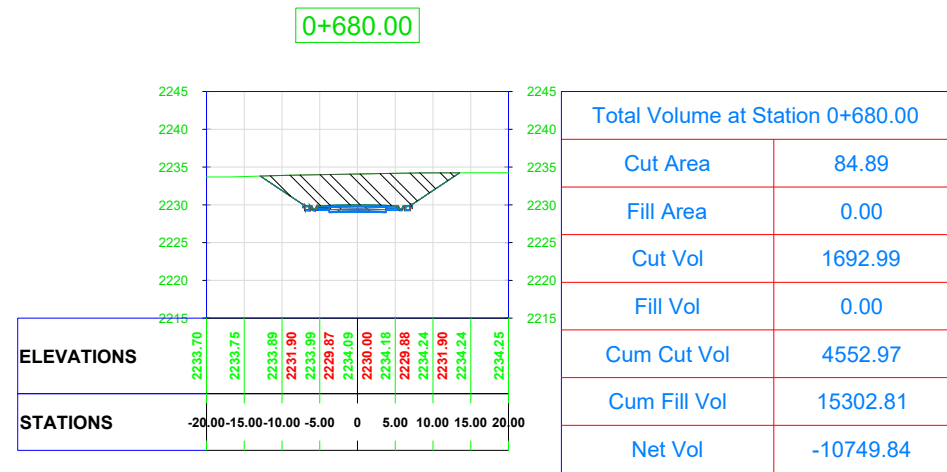
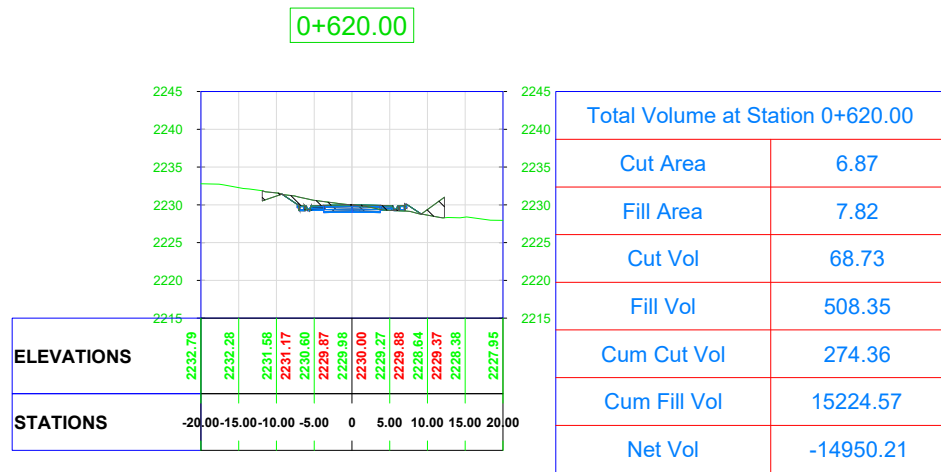
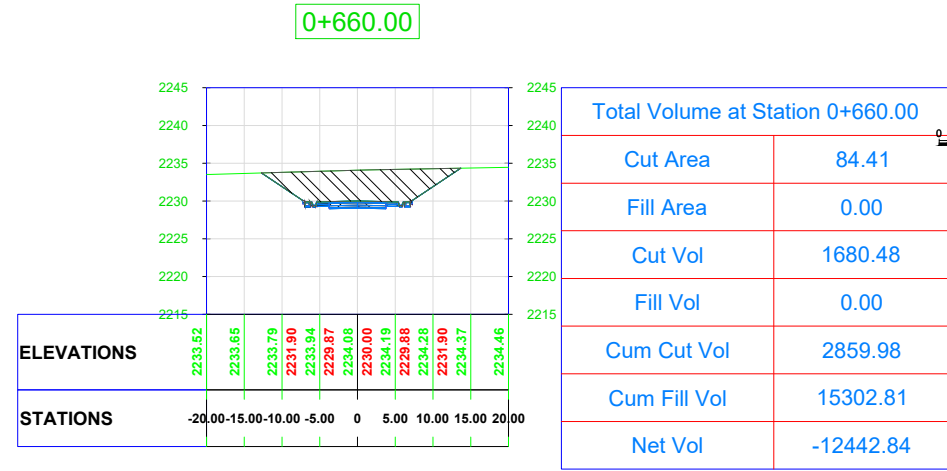
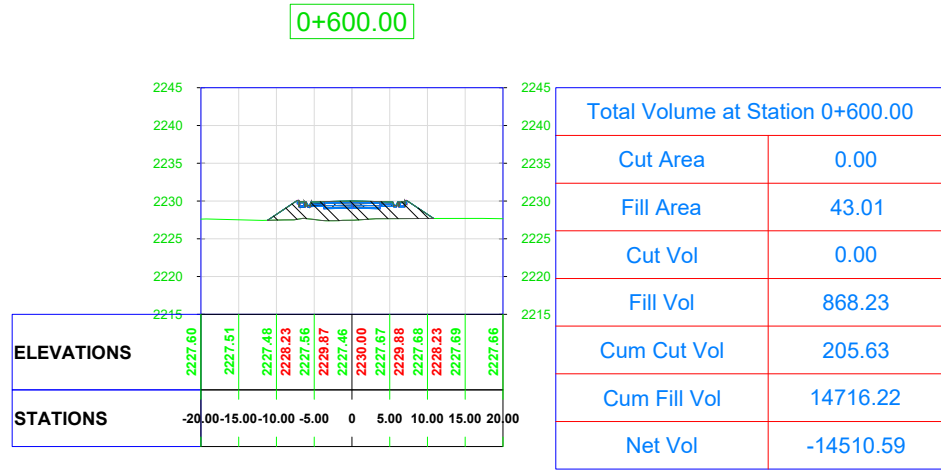
DRAWING NO: R-18

SCALE:

DATE: 28/12/2025

SHEET:

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General Notes

ALL LEVELS AND DIMENSIONS
ARE IN METER UNLESS
INDICATED OTHERWISE.
CONTOURS INTERVAL @
300mm

CLIENT:



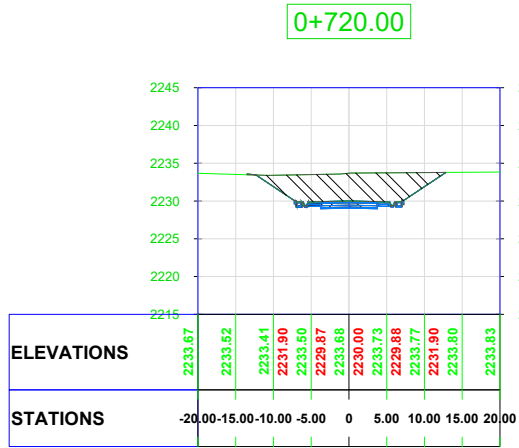
CONSULTANTS



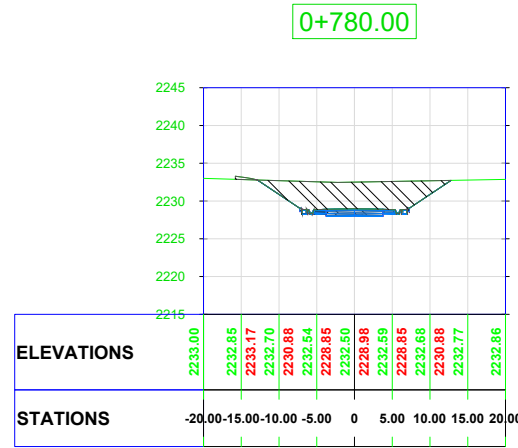
PROJECT:
CONSULTANCY SERVICES FOR THE
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AND CONSTRUCTION SUPERVISION
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TOWER (ATCT), FIRE STATION AND
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INTERNATIONAL AIRPORT, SKARDU

DRAWING TITLE:
ATC TOWER TO OLD RUNWAY PAA
RUNWAY SECTION

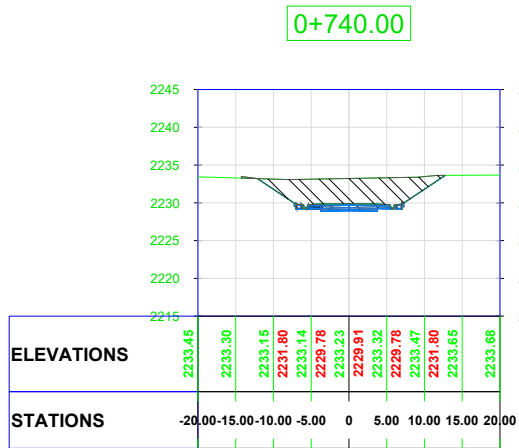
DRAWN BY: ENGR. MUHAMMAD MANJOUR
CHECKED BY: ENGR. MURTAZA
FILE PATH: D:\NA
DATE: 28/12/2025
DRAWING NO: R-19
SHEET: 06



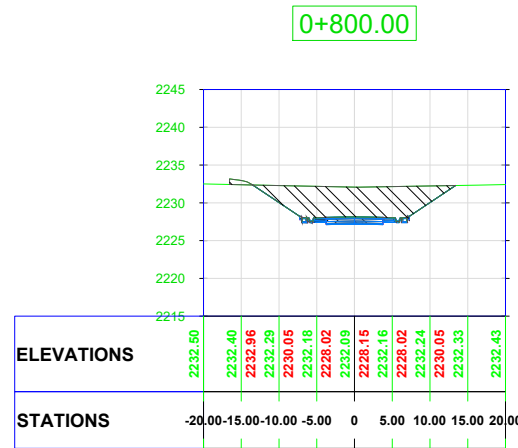
Total Volume at Station 0+720.00	
Cut Area	72.99
Fill Area	0.08
Cut Vol	1519.30
Fill Vol	0.81
Cum Cut Vol	7710.60
Cum Fill Vol	15303.62
Net Vol	-7593.02



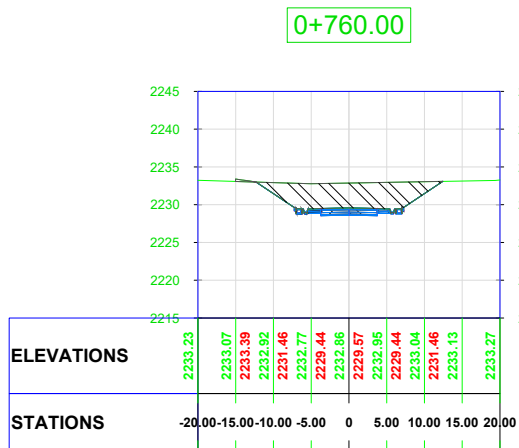
Total Volume at Station 0+780.00	
Cut Area	73.21
Fill Area	0.70
Cut Vol	1395.74
Fill Vol	11.65
Cum Cut Vol	11831.56
Cum Fill Vol	15325.47
Net Vol	-3493.91



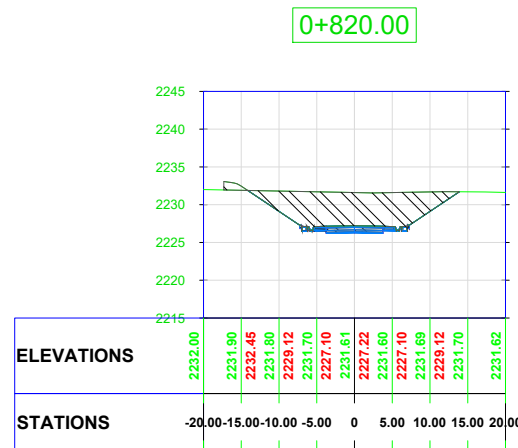
Total Volume at Station 0+740.00	
Cut Area	66.59
Fill Area	0.24
Cut Vol	1395.75
Fill Vol	3.19
Cum Cut Vol	9106.35
Cum Fill Vol	15306.81
Net Vol	-6200.46



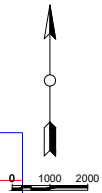
Total Volume at Station 0+800.00	
Cut Area	84.30
Fill Area	1.55
Cut Vol	1575.10
Fill Vol	22.55
Cum Cut Vol	13406.66
Cum Fill Vol	15348.01
Net Vol	-1941.35



Total Volume at Station 0+760.00	
Cut Area	66.36
Fill Area	0.46
Cut Vol	1329.47
Fill Vol	7.00
Cum Cut Vol	10435.82
Cum Fill Vol	15313.81
Net Vol	-4877.99



Total Volume at Station 0+820.00	
Cut Area	95.58
Fill Area	2.40
Cut Vol	1798.81
Fill Vol	39.57
Cum Cut Vol	15205.47
Cum Fill Vol	15387.58
Net Vol	-182.11



General Notes

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INTERNATIONAL AIRPORT, SKARDU

DRAWING TITLE:

ATC TOWER TO OLD RUNWAY PAA
RUNWAY SECTION

DRAWN BY: ENGR.ELIZAB MANZOR

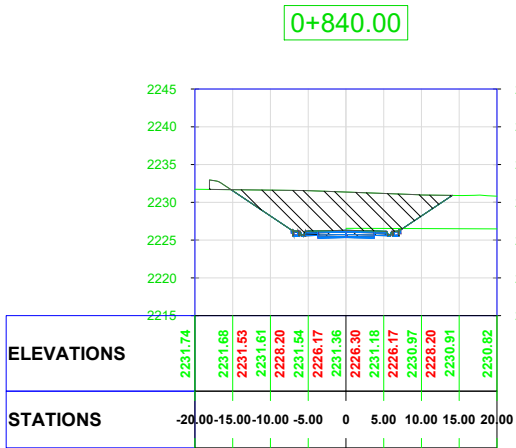
CHECKED BY: ENGR. MURTAZA

FILE PATH: D:\NA

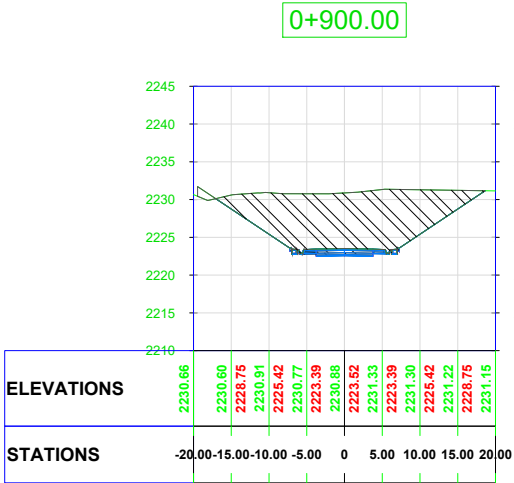
DRAWING NO: R-20

DATE: 28/12/2025

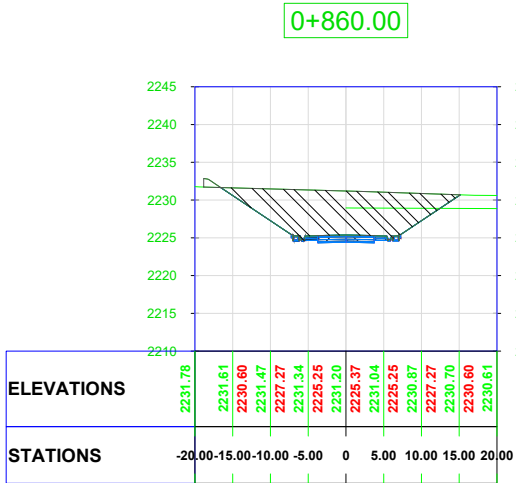
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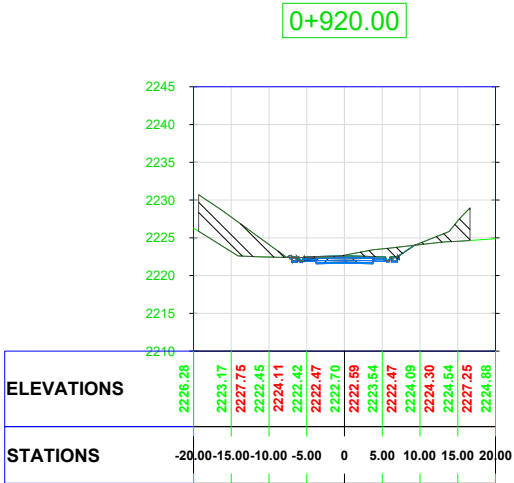
Total Volume at Station 0+840.00	
Cut Area	111.84
Fill Area	2.28
Cut Vol	2074.21
Fill Vol	46.88
Cum Cut Vol	17279.68
Cum Fill Vol	15434.46
Net Vol	1845.22



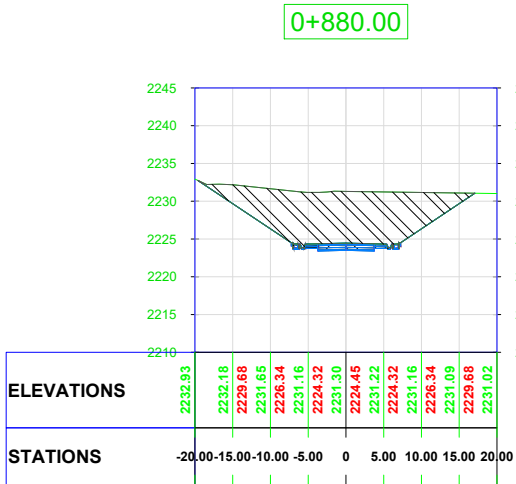
Total Volume at Station 0+900.00	
Cut Area	191.67
Fill Area	2.01
Cut Vol	3659.33
Fill Vol	20.11
Cum Cut Vol	26514.05
Cum Fill Vol	15508.05
Net Vol	11006.01



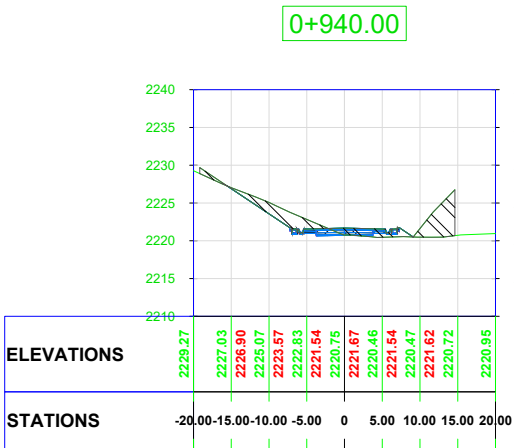
Total Volume at Station 0+860.00	
Cut Area	135.70
Fill Area	1.53
Cut Vol	2475.41
Fill Vol	38.16
Cum Cut Vol	19755.10
Cum Fill Vol	15472.62
Net Vol	4282.48



Total Volume at Station 0+920.00	
Cut Area	7.48
Fill Area	50.61
Cut Vol	1991.59
Fill Vol	526.24
Cum Cut Vol	28505.64
Cum Fill Vol	16034.29
Net Vol	12471.35



Total Volume at Station 0+880.00	
Cut Area	174.26
Fill Area	0.00
Cut Vol	3099.63
Fill Vol	15.32
Cum Cut Vol	22854.72
Cum Fill Vol	15487.94
Net Vol	7366.78



Total Volume at Station 0+940.00	
Cut Area	15.12
Fill Area	28.78
Cut Vol	226.01
Fill Vol	793.90
Cum Cut Vol	28731.65
Cum Fill Vol	16828.19
Net Vol	11903.46

General Notes

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300mm

CLIENT:



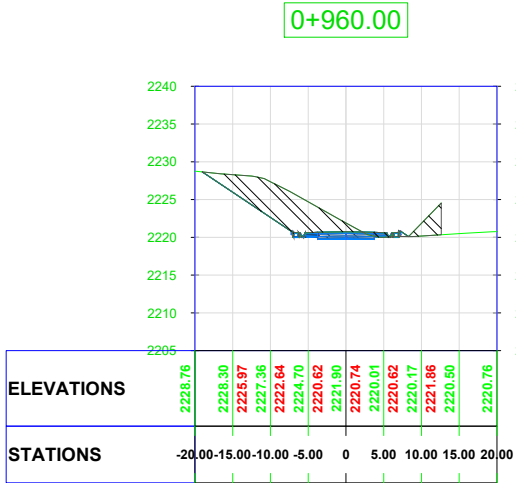
CONSULTANTS



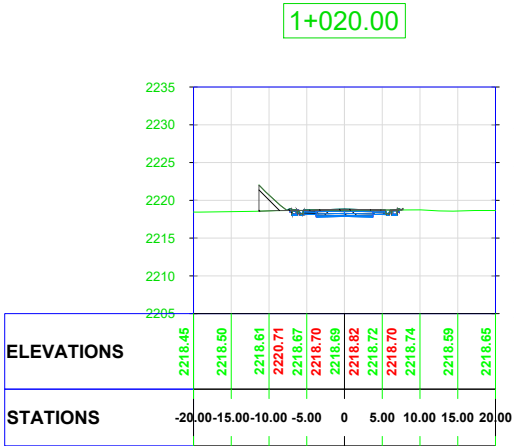
PROJECT:
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TOWER (ATCT), FIRE STATION AND
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INTERNATIONAL AIRPORT, SKARDU

DRAWING TITLE:
ATC TOWER TO OLD RUNWAY PAA
RUNWAY SECTION

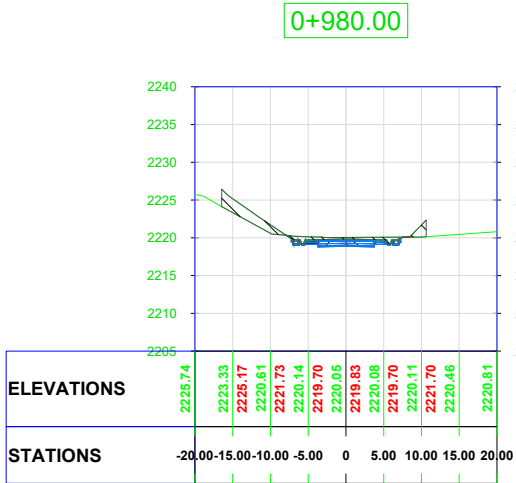
DRAWN BY: ENGR. MUHAMMAD MANZOR	SCALE:
CHECKED BY: ENGR. MURTAZA	DATE: 28/12/2025
FILE PATH: D:\NA	SHEET: 08



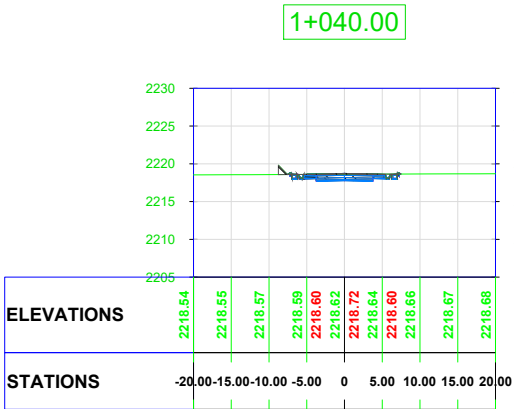
Total Volume at Station 0+960.00	
Cut Area	62.02
Fill Area	11.77
Cut Vol	771.33
Fill Vol	405.45
Cum Cut Vol	29502.98
Cum Fill Vol	17233.64
Net Vol	12269.34



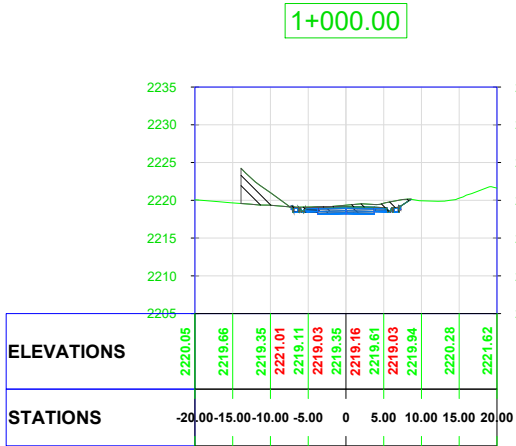
Total Volume at Station 1+020.00	
Cut Area	0.68
Fill Area	7.05
Cut Vol	60.96
Fill Vol	211.05
Cum Cut Vol	30350.05
Cum Fill Vol	17983.27
Net Vol	12366.77



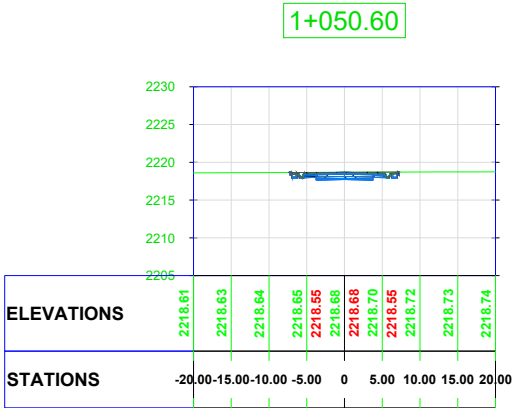
Total Volume at Station 0+980.00	
Cut Area	5.59
Fill Area	14.02
Cut Vol	676.05
Fill Vol	257.86
Cum Cut Vol	30179.03
Cum Fill Vol	17491.50
Net Vol	12687.53



Total Volume at Station 1+040.00	
Cut Area	0.76
Fill Area	1.45
Cut Vol	14.36
Fill Vol	84.97
Cum Cut Vol	30364.41
Cum Fill Vol	18068.25
Net Vol	12296.16



Total Volume at Station 1+000.00	
Cut Area	5.42
Fill Area	14.05
Cut Vol	110.05
Fill Vol	280.72
Cum Cut Vol	30289.09
Cum Fill Vol	17772.22
Net Vol	12516.87



Total Volume at Station 1+050.60	
Cut Area	1.69
Fill Area	0.04
Cut Vol	12.93
Fill Vol	7.87
Cum Cut Vol	30377.34
Cum Fill Vol	18076.11
Net Vol	12301.23

General Notes

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CLIENT:



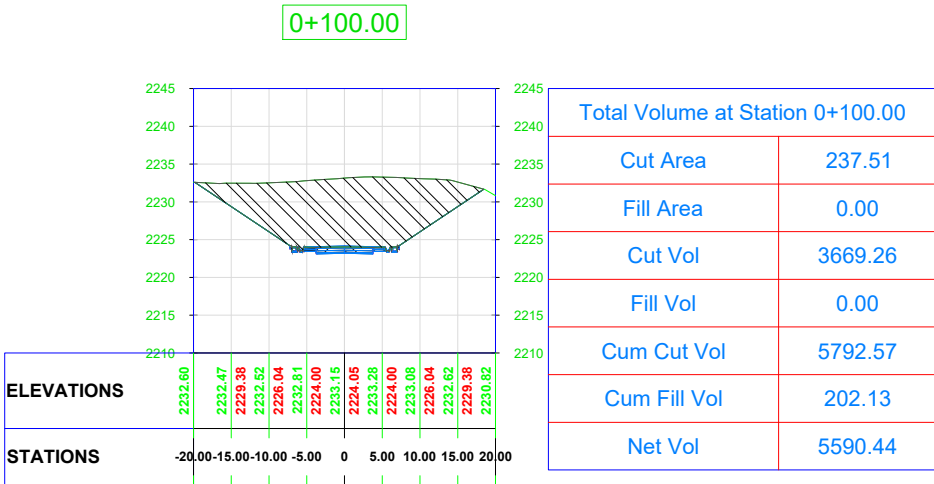
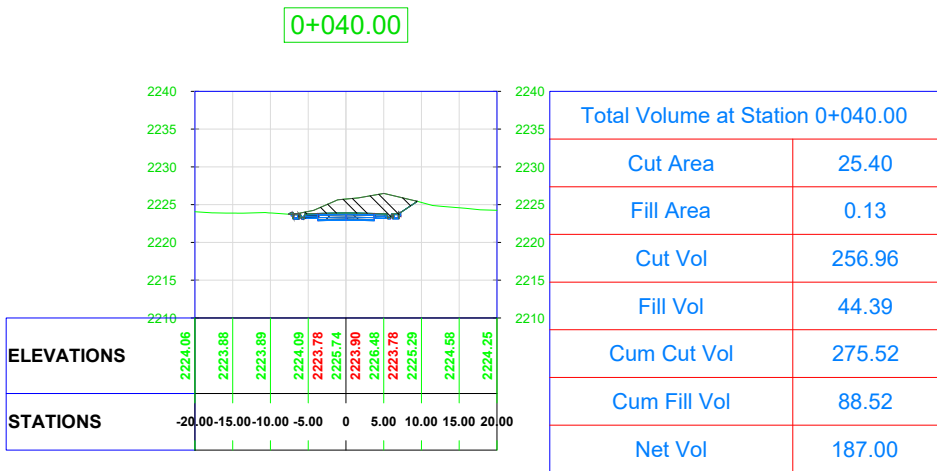
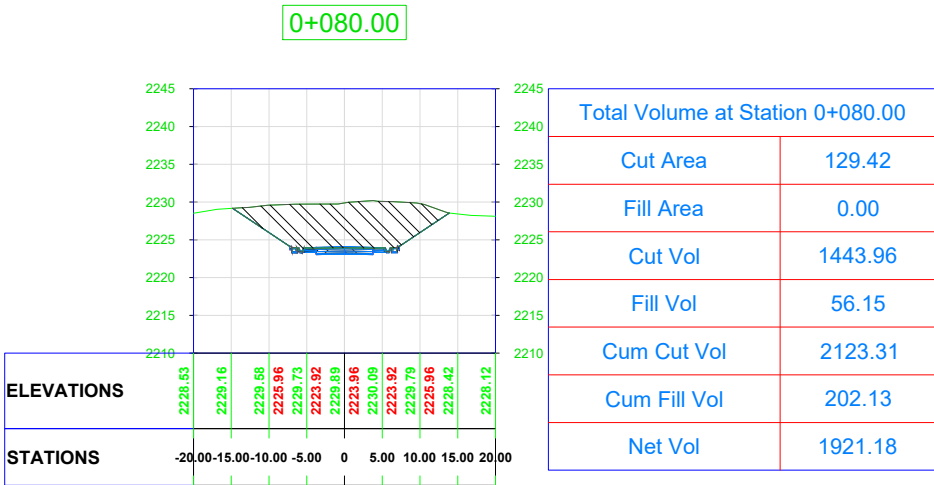
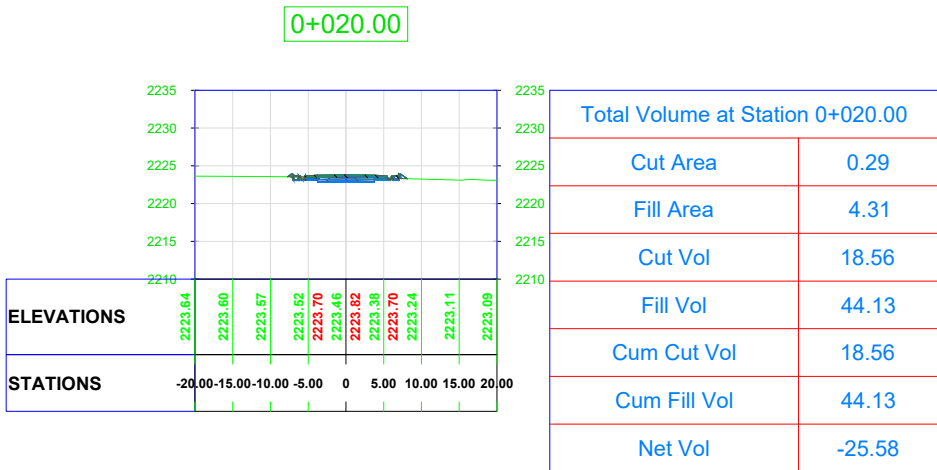
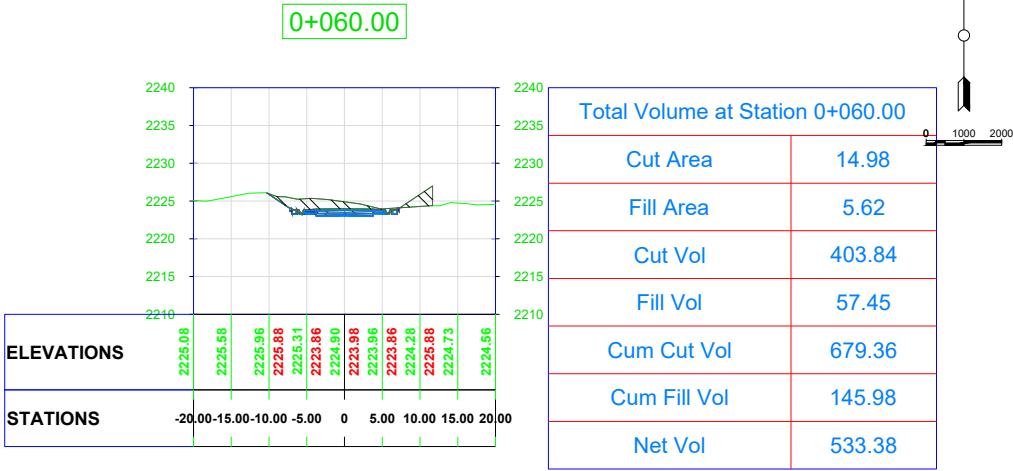
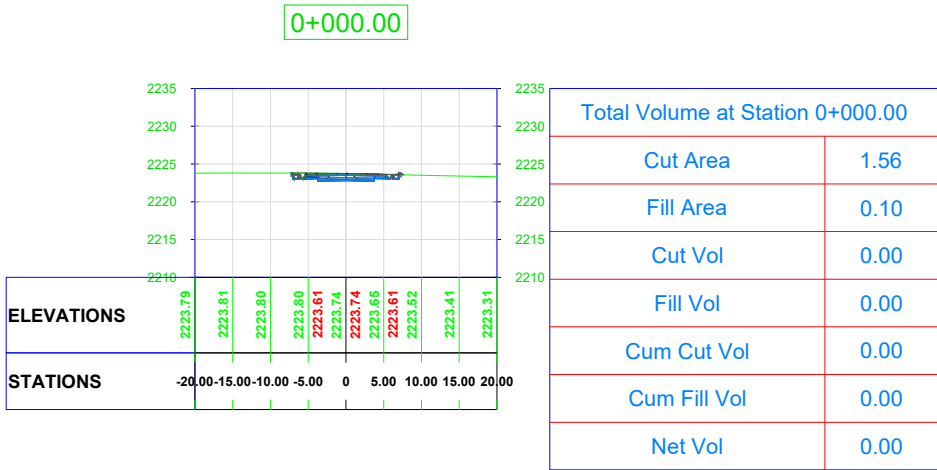
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INTERNATIONAL AIRPORT, SKARDU

DRAWING TITLE:
ATC TOWER TO OLD RUNWAY PAA
RUNWAY SECTION

DRAWN BY: ENGR. MUHAMMAD MANZOR	SCALE:
CHECKED BY: ENGR. MURTAZA	DATE: 28/12/2025
FILE PATH: D:\NA	SHEET: 09



General Notes

ALL LEVELS AND DIMENSIONS
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PROJECT:
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INTERNATIONAL AIRPORT, SKARDU

DRAWING TITLE:
ATC TOWER TO APRON RUNWAY
SECTION

DRAWN BY: ENGR.ILAZAR MANZOR

CHECKED BY: ENGR. MURTAZA

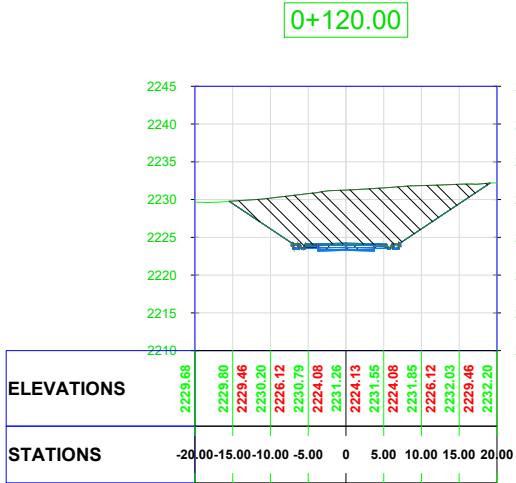
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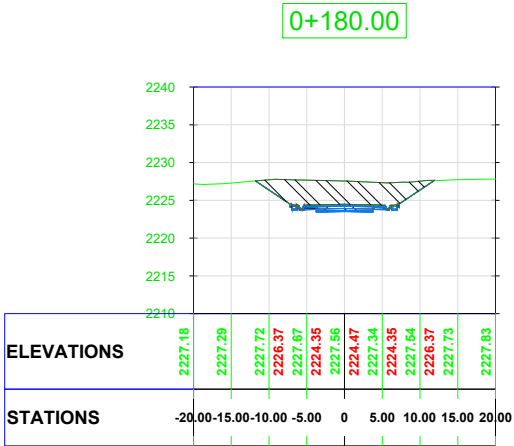
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DATE: 28/12/2023

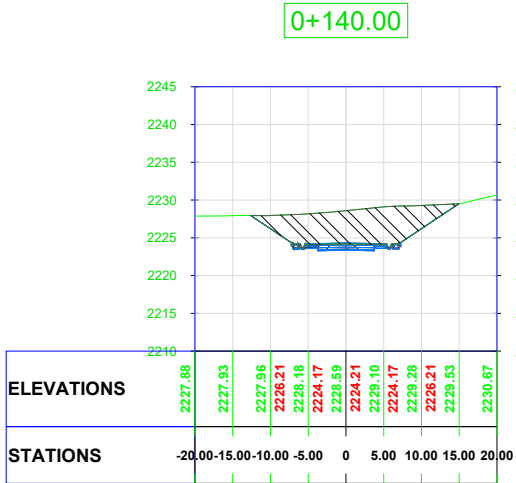
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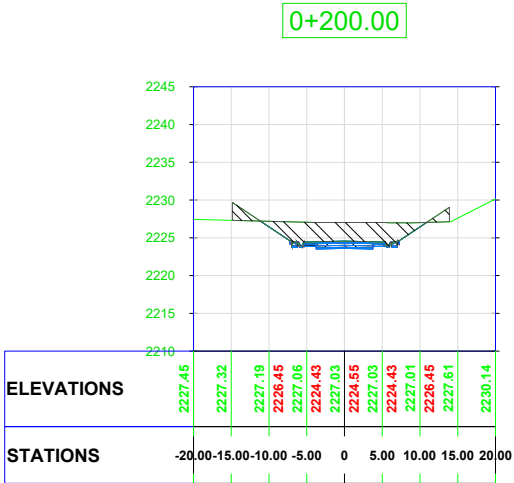
Total Volume at Station 0+120.00	
Cut Area	172.94
Fill Area	0.00
Cut Vol	4104.48
Fill Vol	0.00
Cum Cut Vol	9897.05
Cum Fill Vol	202.13
Net Vol	9694.92



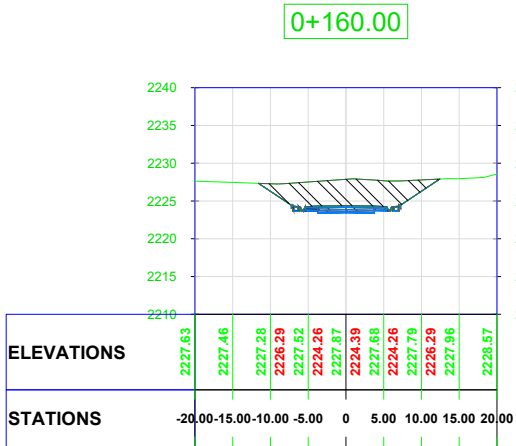
Total Volume at Station 0+180.00	
Cut Area	60.26
Fill Area	0.00
Cut Vol	1241.62
Fill Vol	0.00
Cum Cut Vol	15373.13
Cum Fill Vol	202.13
Net Vol	15171.00



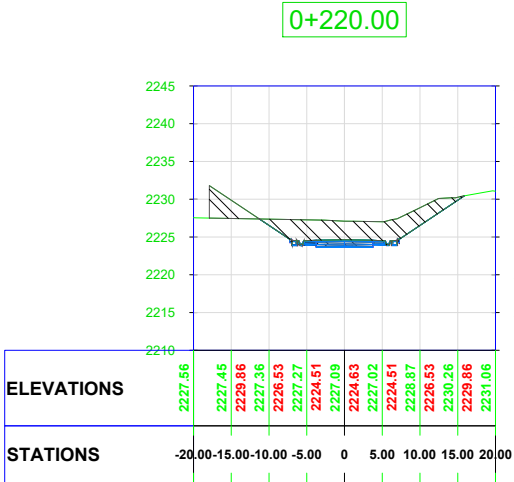
Total Volume at Station 0+140.00	
Cut Area	93.30
Fill Area	0.00
Cut Vol	2662.40
Fill Vol	0.00
Cum Cut Vol	12559.45
Cum Fill Vol	202.13
Net Vol	12357.32



Total Volume at Station 0+200.00	
Cut Area	46.84
Fill Area	7.26
Cut Vol	1071.00
Fill Vol	72.60
Cum Cut Vol	16444.13
Cum Fill Vol	274.73
Net Vol	16169.41



Total Volume at Station 0+160.00	
Cut Area	63.90
Fill Area	0.00
Cut Vol	1572.06
Fill Vol	0.00
Cum Cut Vol	14131.51
Cum Fill Vol	202.13
Net Vol	13929.38



Total Volume at Station 0+220.00	
Cut Area	59.26
Fill Area	14.24
Cut Vol	1061.00
Fill Vol	215.01
Cum Cut Vol	17505.13
Cum Fill Vol	489.74
Net Vol	17015.40

General Notes

ALL LEVELS AND DIMENSIONS
ARE IN METER UNLESS
INDICATED OTHERWISE.
CONTOURS INTERVAL @
300mm

CLIENT:



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PROJECT:
CONSULTANCY SERVICES FOR THE
PREPARATION OF DETAILED
DESIGN,PROCUREMENT SUPPORT
AND CONSTRUCTION SUPERVISION
OF NEW AIRTRAFFIC CONTROL
TOWER (ATCT), FIRE STATION AND
ALLIED FACILITIES ATSKARDU
INTERNATIONAL AIRPORT, SKARDU

DRAWING TITLE:
ATC TOWER TO APRON RUNWAY
SECTION

DRAWN BY: ENGR.ELIZABH MANZOR

CHECKED BY: ENGR. MURTAZA

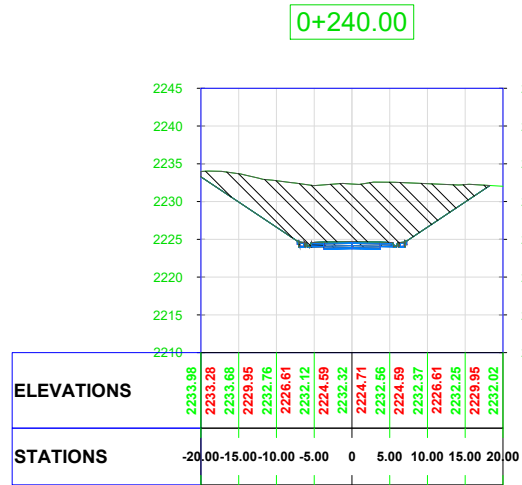
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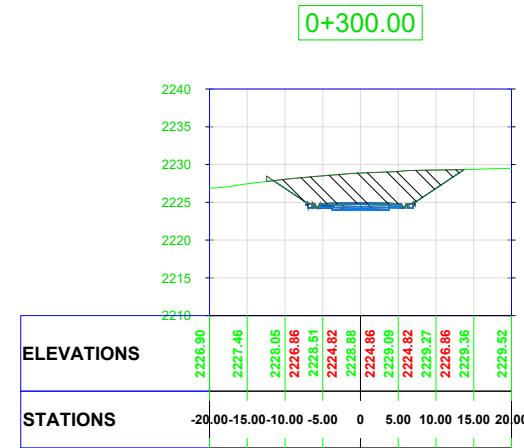
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DATE: 28/12/2025

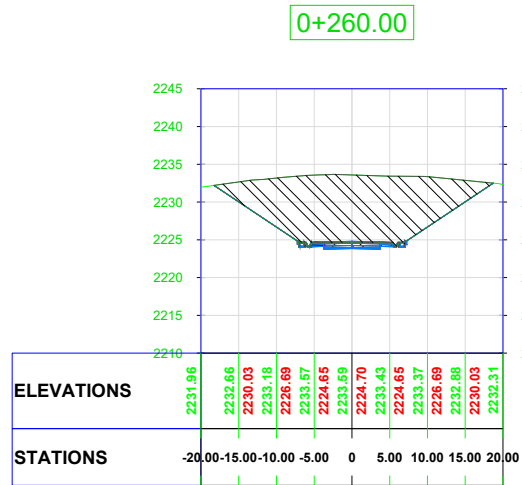
SHEET: 02



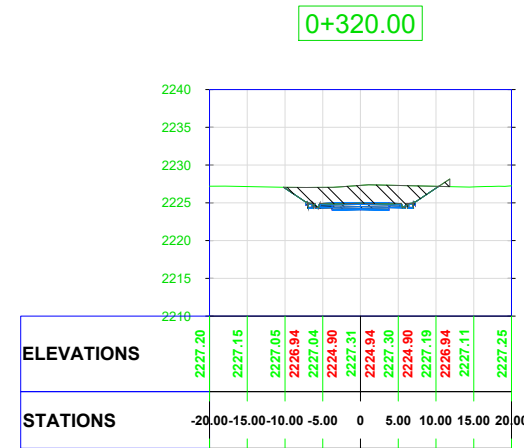
Total Volume at Station 0+240.00	
Cut Area	210.19
Fill Area	0.00
Cut Vol	2694.52
Fill Vol	142.41
Cum Cut Vol	20199.66
Cum Fill Vol	632.15
Net Vol	19567.51



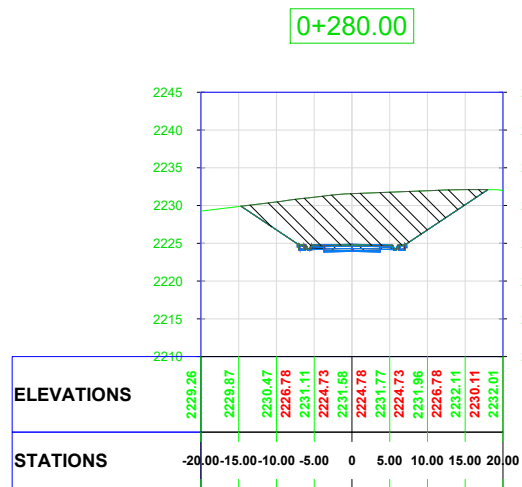
Total Volume at Station 0+300.00	
Cut Area	79.39
Fill Area	0.33
Cut Vol	2373.82
Fill Vol	3.28
Cum Cut Vol	30800.53
Cum Fill Vol	635.43
Net Vol	30165.10



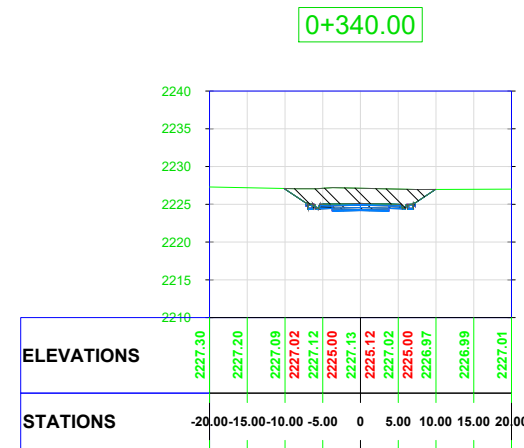
Total Volume at Station 0+260.00	
Cut Area	227.26
Fill Area	0.00
Cut Vol	4374.56
Fill Vol	0.00
Cum Cut Vol	24574.21
Cum Fill Vol	632.15
Net Vol	23942.06



Total Volume at Station 0+320.00	
Cut Area	40.27
Fill Area	0.74
Cut Vol	1196.64
Fill Vol	10.66
Cum Cut Vol	31997.17
Cum Fill Vol	646.09
Net Vol	31351.08



Total Volume at Station 0+280.00	
Cut Area	157.99
Fill Area	0.00
Cut Vol	3852.49
Fill Vol	0.00
Cum Cut Vol	28426.70
Cum Fill Vol	632.15
Net Vol	27794.56



Total Volume at Station 0+340.00	
Cut Area	35.30
Fill Area	0.00
Cut Vol	755.72
Fill Vol	7.37
Cum Cut Vol	32752.89
Cum Fill Vol	653.46
Net Vol	32099.43

General Notes

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CONTOURS INTERVAL @
300mm

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CONSULTANCY SERVICES FOR THE
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OF NEW AIRTRAFFIC CONTROL
TOWER (ATCT), FIRE STATION AND
ALLIED FACILITIES AT SKARDU
INTERNATIONAL AIRPORT, SKARDU

DRAWING TITLE:

ATC TOWER TO APRON RUNWAY
SECTION

DRAWN BY: ENGR. MUHAMMAD

CHECKED BY: ENGR. MURTAZA

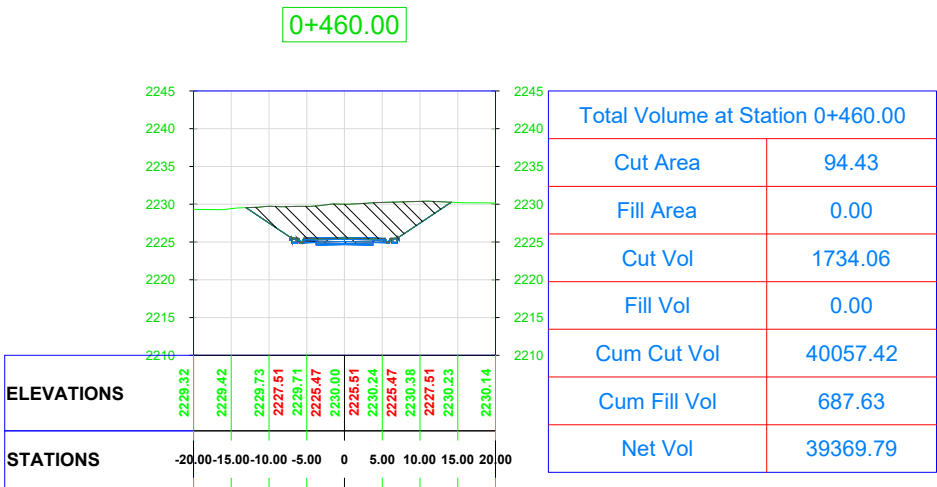
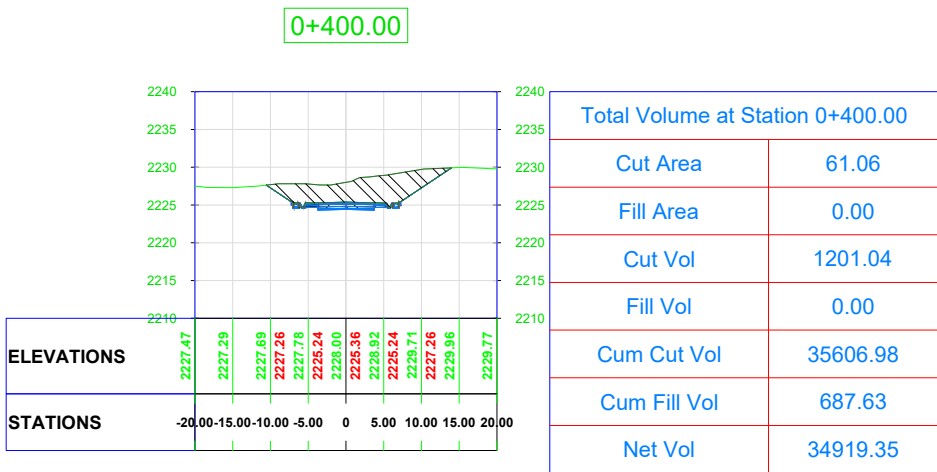
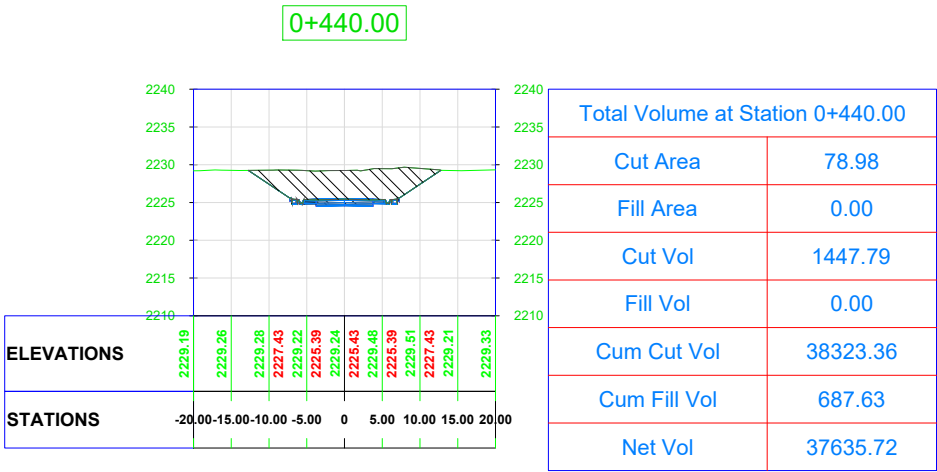
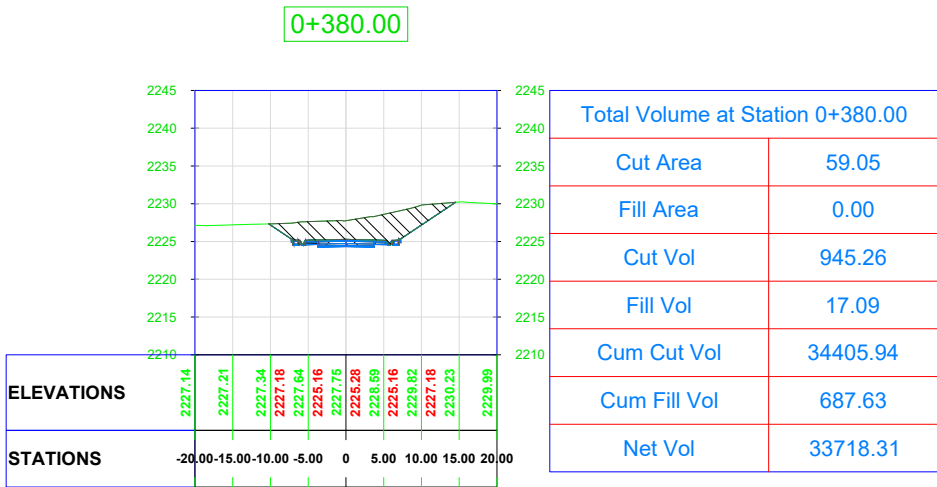
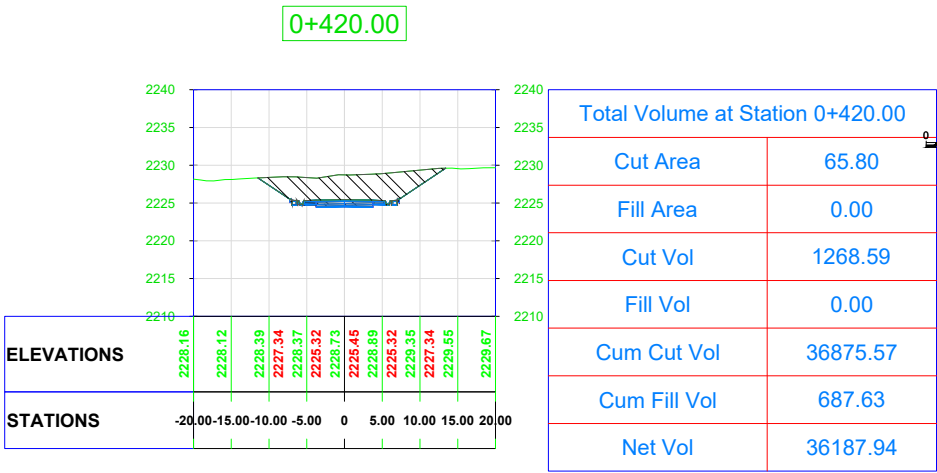
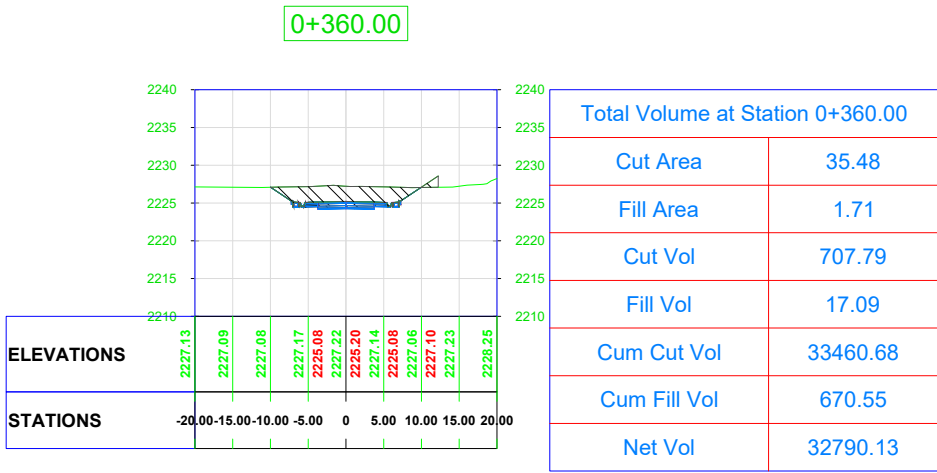
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DRAWING NO: R-25

SCALE:

DATE: 28/12/2025

SHEET: 03



General Notes

ALL LEVELS AND DIMENSIONS
ARE IN METER UNLESS
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CONTOURS INTERVAL @
300mm

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CONSULTANCY SERVICES FOR THE
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TOWER (ATCT), FIRE STATION AND
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INTERNATIONAL AIRPORT, SKARDU

DRAWING TITLE:
ATC TOWER TO APRON RUNWAY
SECTION

DRAWN BY: ENGR.ELIZABH MANZOR

CHECKED BY: ENGR. MURTAZA

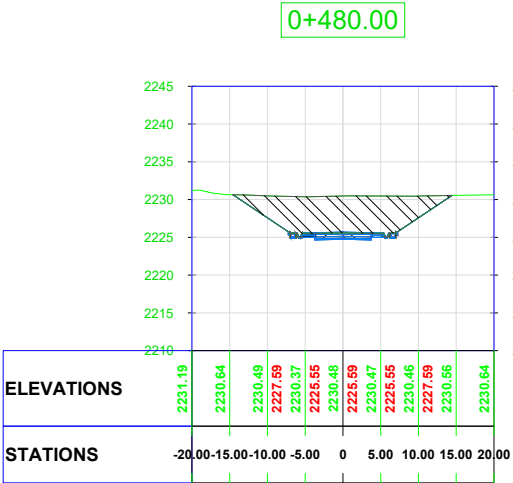
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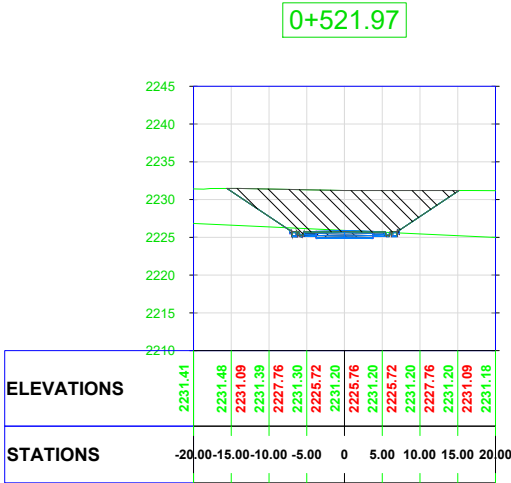
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DATE: 28/12/2025

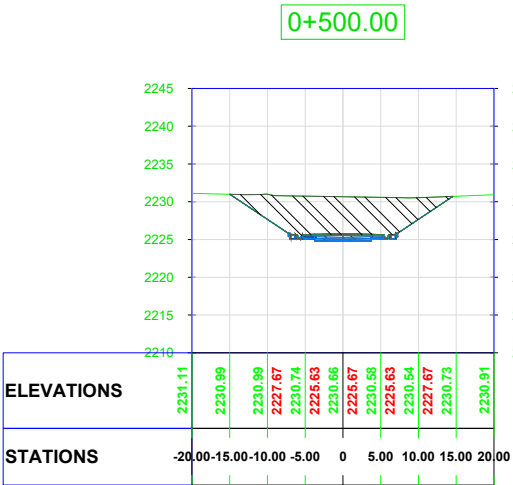
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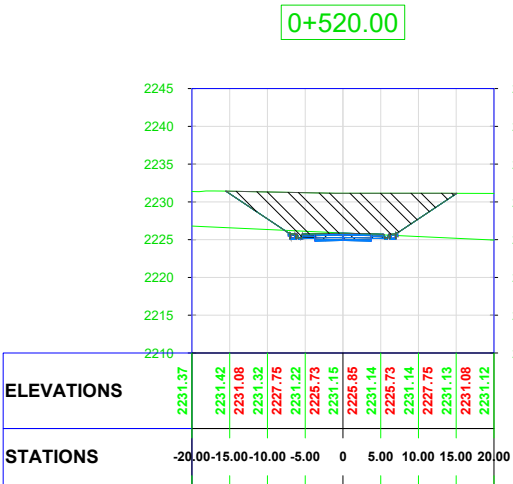
Total Volume at Station 0+480.00	
Cut Area	105.38
Fill Area	0.00
Cut Vol	1998.14
Fill Vol	0.00
Cum Cut Vol	42055.56
Cum Fill Vol	687.63
Net Vol	41367.93



Total Volume at Station 0+521.97	
Cut Area	123.97
Fill Area	0.00
Cut Vol	241.36
Fill Vol	0.00
Cum Cut Vol	46757.86
Cum Fill Vol	687.63
Net Vol	46070.23



Total Volume at Station 0+500.00	
Cut Area	109.66
Fill Area	0.00
Cut Vol	2150.45
Fill Vol	0.00
Cum Cut Vol	44206.02
Cum Fill Vol	687.63
Net Vol	43518.39



Total Volume at Station 0+520.00	
Cut Area	121.39
Fill Area	0.00
Cut Vol	2310.49
Fill Vol	0.00
Cum Cut Vol	46516.51
Cum Fill Vol	687.63
Net Vol	45828.87

General Notes

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300mm

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TOWER (ATCT), FIRE STATION AND
ALLIED FACILITIES AT SKARDU
INTERNATIONAL AIRPORT, SKARDU

DRAWING TITLE:
ATC TOWER TO APRON RUNWAY
SECTION

DRAWN BY: ENGR. MUHAMMAD MANZOOR

CHECKED BY: ENGR. MURTAZA

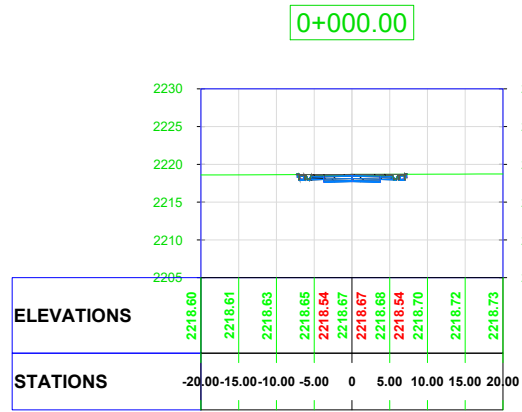
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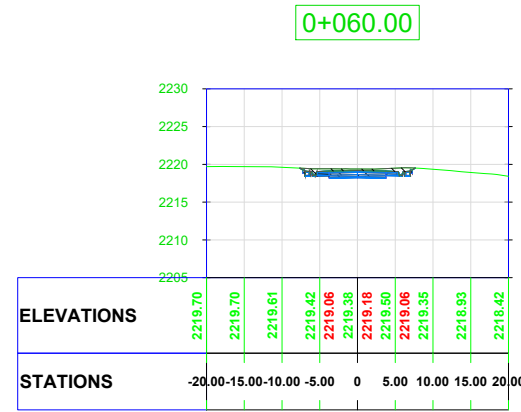
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DATE: 28/12/2025

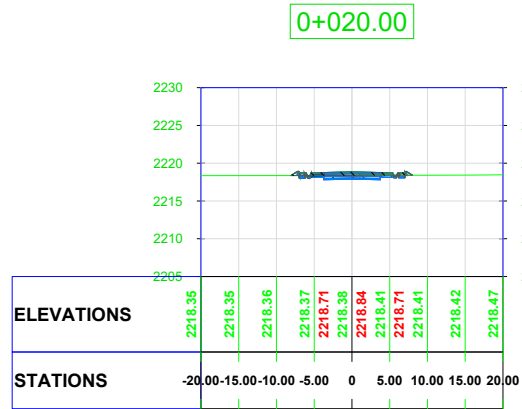
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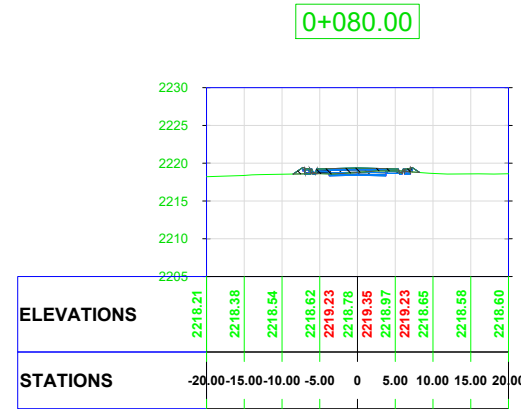
Total Volume at Station 0+000.00	
Cut Area	1.66
Fill Area	0.04
Cut Vol	0.00
Fill Vol	0.00
Cum Cut Vol	0.00
Cum Fill Vol	0.00
Net Vol	0.00



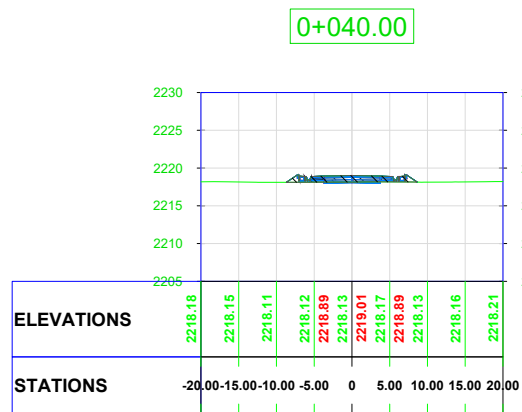
Total Volume at Station 0+060.00	
Cut Area	5.36
Fill Area	0.00
Cut Vol	53.65
Fill Vol	122.61
Cum Cut Vol	74.14
Cum Fill Vol	355.97
Net Vol	-281.83



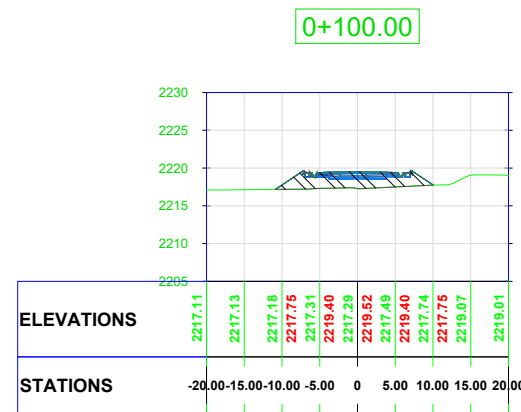
Total Volume at Station 0+020.00	
Cut Area	0.19
Fill Area	5.52
Cut Vol	18.57
Fill Vol	55.58
Cum Cut Vol	18.57
Cum Fill Vol	55.58
Net Vol	-37.00



Total Volume at Station 0+080.00	
Cut Area	0.13
Fill Area	7.61
Cut Vol	54.95
Fill Vol	76.07
Cum Cut Vol	129.09
Cum Fill Vol	432.04
Net Vol	-302.95



Total Volume at Station 0+040.00	
Cut Area	0.00
Fill Area	12.26
Cut Vol	1.92
Fill Vol	177.78
Cum Cut Vol	20.49
Cum Fill Vol	233.36
Net Vol	-212.87



Total Volume at Station 0+100.00	
Cut Area	0.00
Fill Area	36.60
Cut Vol	1.30
Fill Vol	442.04
Cum Cut Vol	130.39
Cum Fill Vol	874.08
Net Vol	-743.69

General Notes

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ARE IN METER UNLESS
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CONTOURS INTERVAL @
300mm

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PROJECT:

CONSULTANCY SERVICES FOR THE
PREPARATION OF DETAILED
DESIGN,PROCUREMENT SUPPORT
AND CONSTRUCTION SUPERVISION
OF NEW AIRTRAFFIC CONTROL
TOWER (ATCT), FIRE STATION AND
ALLIED FACILITIES ATSKARDU
INTERNATIONAL AIRPORT, SKARDU

DRAWING TITLE:

PAA RUNWAY TO PAF RUNWAY
SECTION

DRAWN BY: ENGR.ELIZAB MANZOR

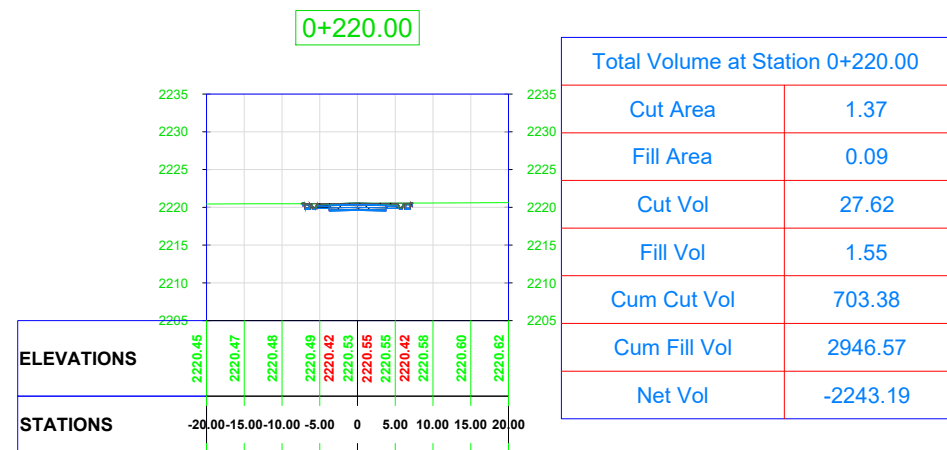
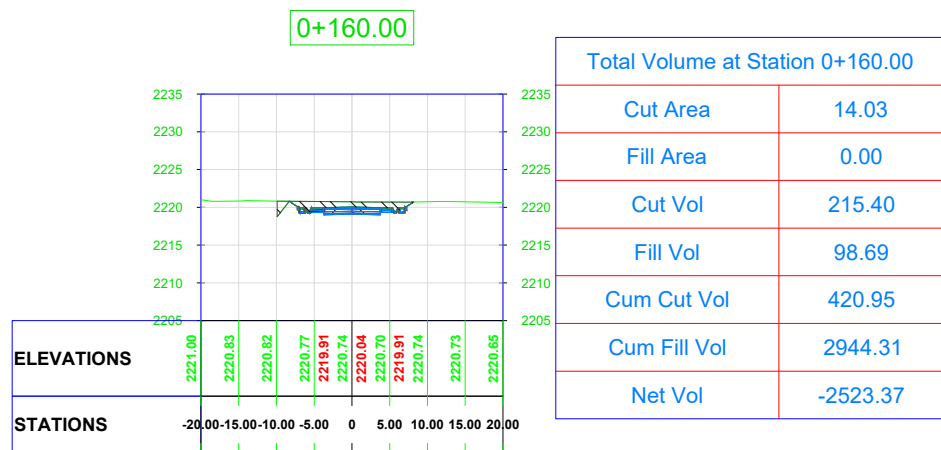
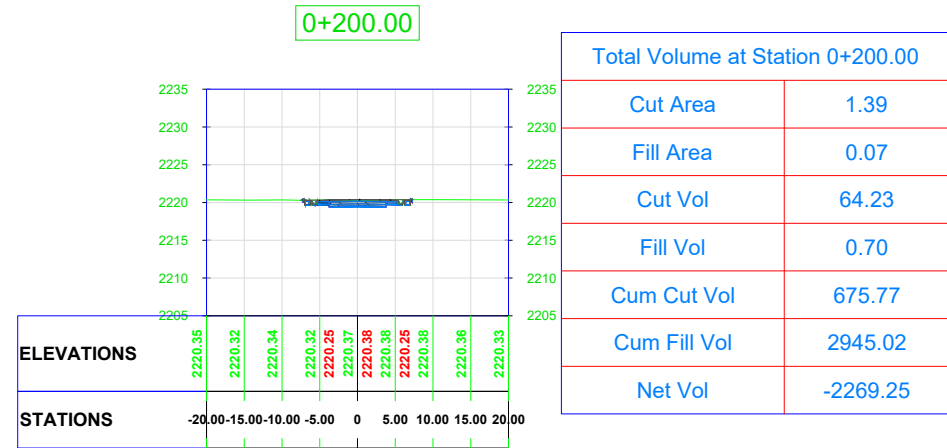
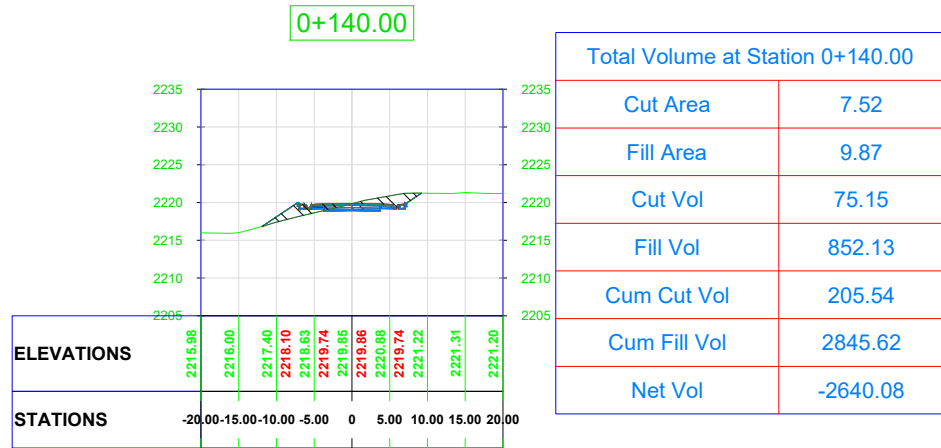
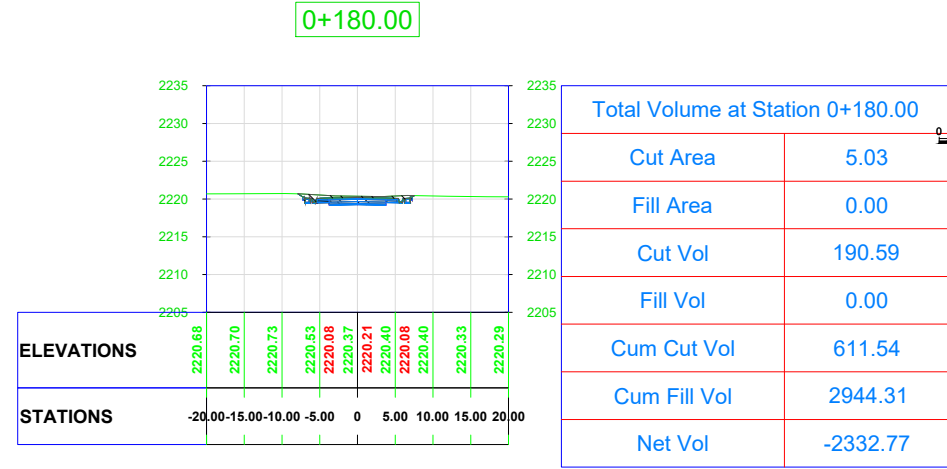
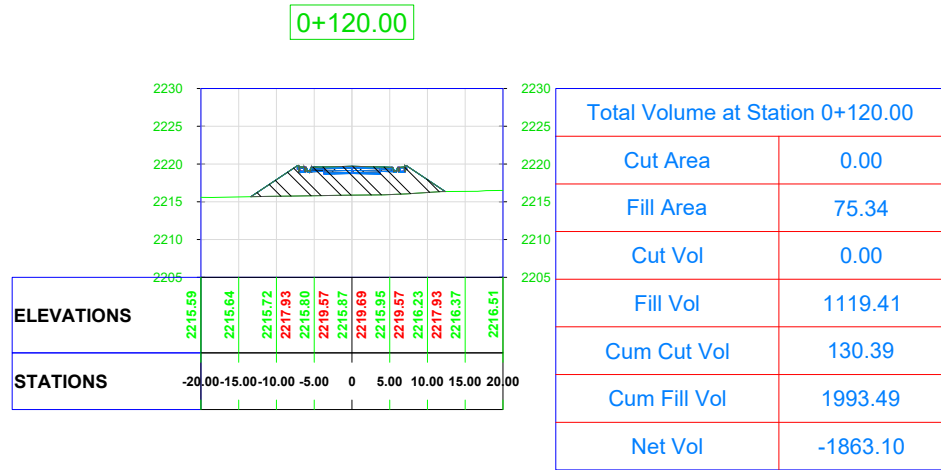
CHECKED BY: ENGR. MURTAZA

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DRAWING NO: R-28

DATE: 28/12/2025

SHEET: 01



General Notes

ALL LEVELS AND DIMENSIONS
ARE IN METER UNLESS
INDICATED OTHERWISE.
CONTOURS INTERVAL @
300mm

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PROJECT:
CONSULTANCY SERVICES FOR THE
PREPARATION OF DETAILED
DESIGN,PROCUREMENT SUPPORT
AND CONSTRUCTION SUPERVISION
OF NEW AIRTRAFFIC CONTROL
TOWER (ATCT), FIRE STATION AND
ALLIED FACILITIES ATSKARDU
INTERNATIONAL AIRPORT, SKARDU

DRAWING TITLE:
PAA RUNWAY TO PAF RUNWAY
SECTION

DRAWN BY: ENGR.ELIZAB MANZOR

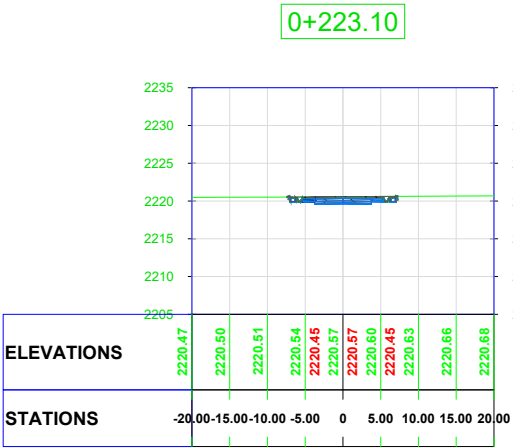
CHECKED BY: ENGR. MURTAZA

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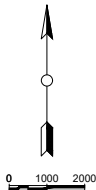
DRAWING NO: R-29

DATE: 28/12/2025

SHEET: 02



Total Volume at Station 0+223.10	
Cut Area	1.64
Fill Area	0.04
Cut Vol	4.67
Fill Vol	0.20
Cum Cut Vol	708.05
Cum Fill Vol	2946.77
Net Vol	-2238.72



General Notes

ALL LEVELS AND DIMENSIONS
ARE IN METER UNLESS
INDICATED OTHERWISE.
CONTOURS INTERVAL @
300mm

ISSUED



PROJECT:

CONSULTANCY SERVICES FOR THE
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OF NEW AIRTRAFFIC CONTROL
TOWER (ATCT), FIRE STATION AND
ALLIED FACILITIES ATSKARDU
INTERNATIONAL AIRPORT, SKARDU

DRAWING TITLE:

PAA RUNWAY TO PAF RUNWAY
SECTION

DRAWN BY: ENGR.ULAZAR MANZOR

CHECKED BY: ENGR. MURTAZA

FILE PATH: D:\NA

DRAWING NO: R-30

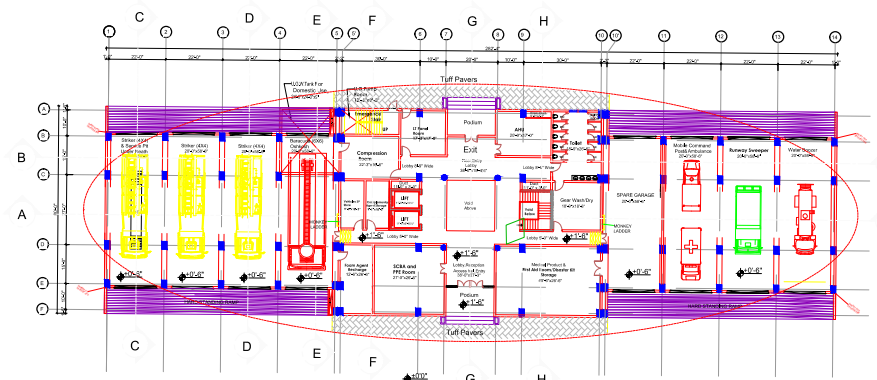
SCALE:

DATE: 28/12/2025

SHEET: 03

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L-2230

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L-2230



E-548686.691
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L-2230

E-548816.619
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L-2230

General Notes

ALL LEVELS AND DIMENSIONS
ARE IN METER UNLESS
INDICATED OTHERWISE.
CONTOURS INTERVAL @
300mm

CLIENT:



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PROJECT:
CONSULTANCY SERVICES FOR THE
PREPARATION OF DETAILED
DESIGN, PROCUREMENT SUPPORT
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OF NEW AIRTRAFFIC CONTROL
TOWER (ATCT), FIRE STATION AND
ALLIED FACILITIES AT SKARDU
INTERNATIONAL AIRPORT, SKARDU

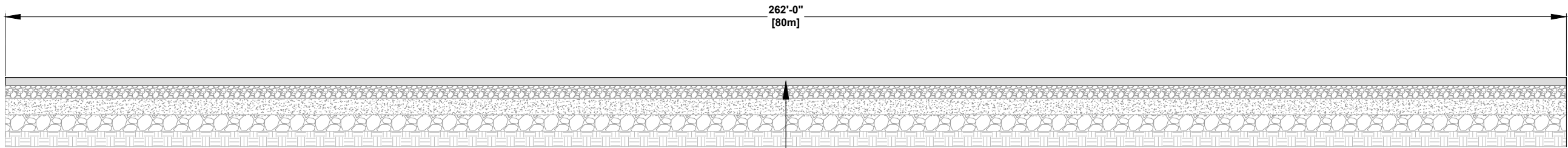
DRAWING TITLE:
ATC TOWER PLAN

DRAWN BY: ENGR.UZAIR MANZOOR

CHECKED BY: ENGR. MURTAZA	SCALE
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FILE PATH:	D:\NA	DATE:
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DRAWING NO: R-31	SHEET
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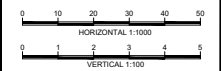


- 50mm WC
- 80mm ABC
- 300mm Granular Base
- 150mm Granular Sub Base
- Compacted Sub Grade

ATCT Platform Typical X-Section

General Notes

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INDICATED OTHERWISE.
CONTOURS INTERVAL @
300mm



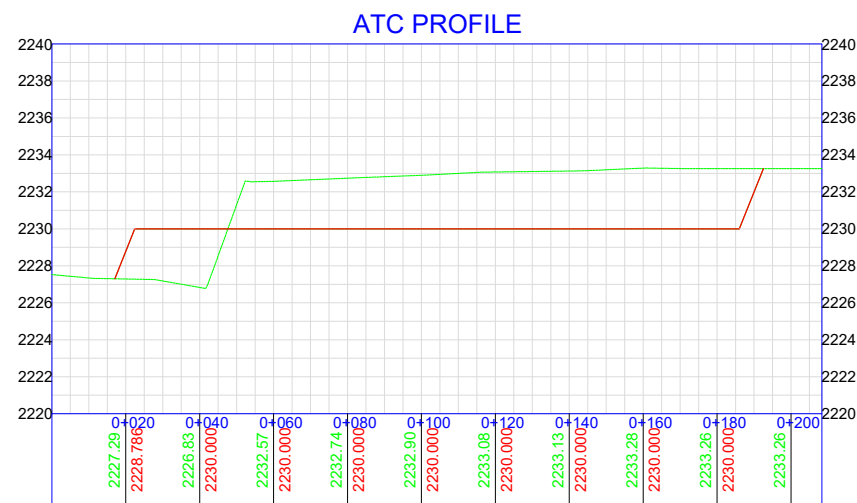
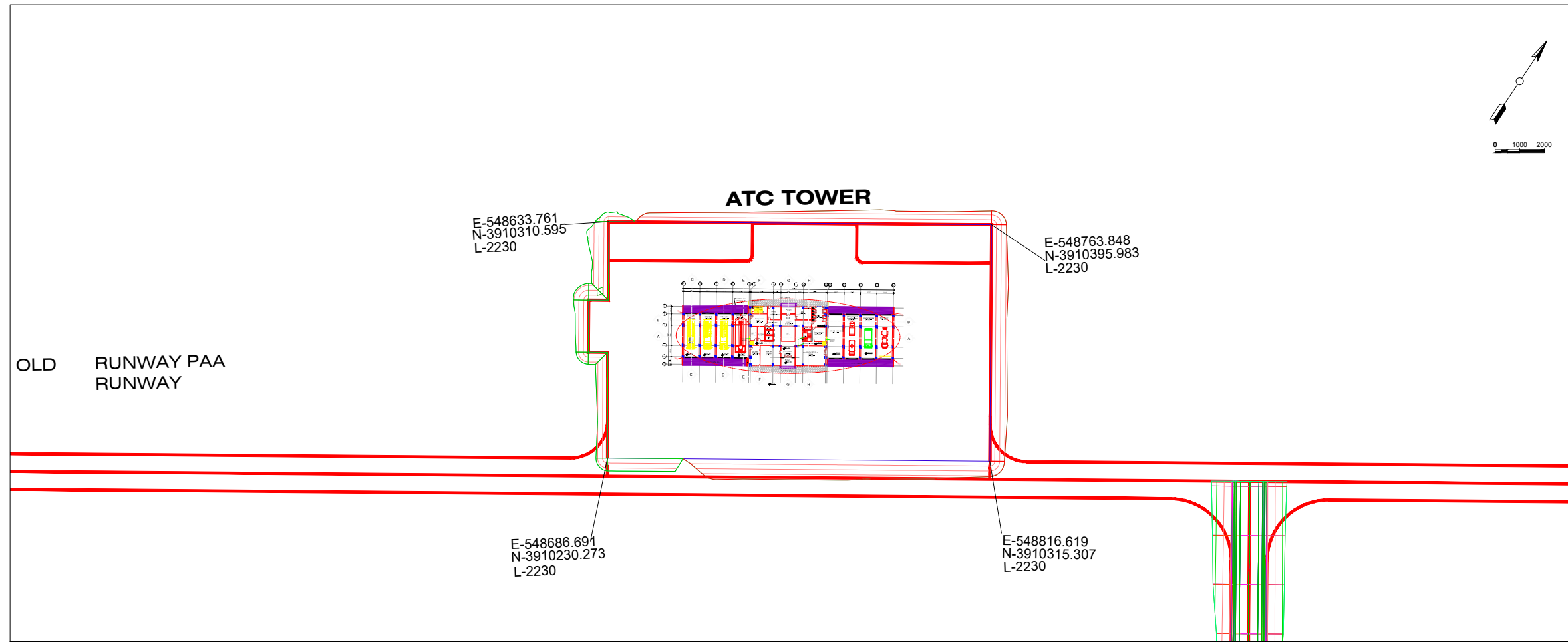
CLIENT:

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PROJECT:
CONSULTANCY SERVICES FOR THE
PREPARATION OF DETAILED
DESIGN, PROCUREMENT SUPPORT
AND CONSTRUCTION SUPERVISION
OF NEW AIRTRAFFIC CONTROL
TOWER (ATCT), FIRE STATION AND
ALLIED FACILITIES AT SKARDU
INTERNATIONAL AIRPORT, SKARDU

DRAWING TITLE:
ATCT PLATFORM TYPICAL
SECTION

DRAWN BY: ENGR. UZAIR MANZOOR	
CHECKED BY: ENGR. MURTAZA	SCALE:
FILE PATH: D:\NA	DATE: 10/02/2026
DRAWING NO: R-314	SHEET: 02



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CONSULTANTS



leit-werk

PROJECT:

CONSULTANCY SERVICES FOR THE
PREPARATION OF DETAILED
DESIGN, PROCUREMENT SUPPORT
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OF NEW AIRTRAFFIC CONTROL
TOWER (ATCT), FIRE STATION AND
ALLIED FACILITIES AT SKARDU
INTERNATIONAL AIRPORT, SKARDU

DRAWING TITLE:

ATC TOWER PLAN & PROFILE

DRAWN BY: ENGR. UZAIR MANZOOR

CHECKED BY: ENGR. MURTAZA

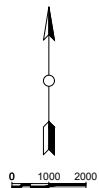
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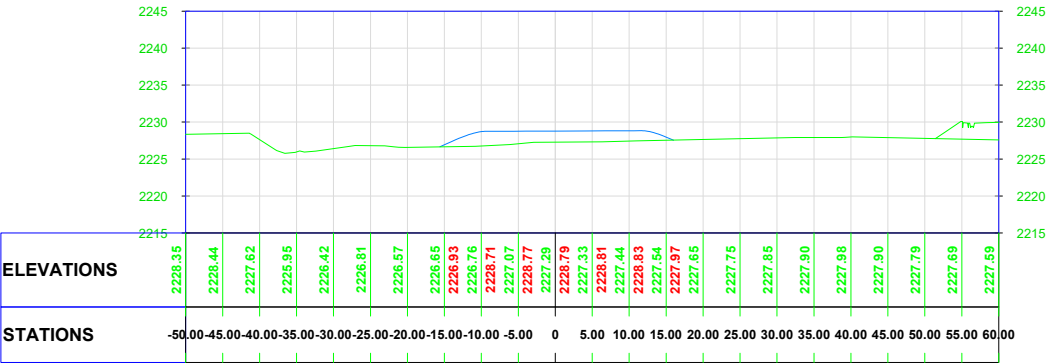
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DATE: 28/12/2025

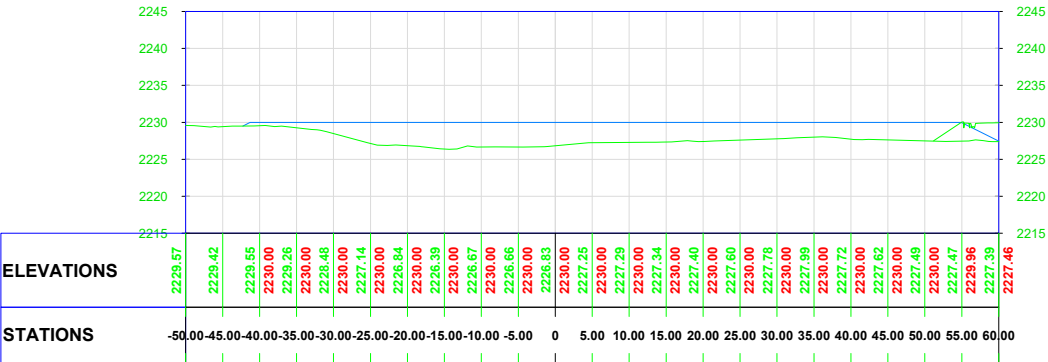
SHEET: 01



0+020.00



0+040.00



General Notes

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300mm

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TOWER (ATCT), FIRE STATION AND
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INTERNATIONAL AIRPORT, SKARDU

DRAWING TITLE:

ATC TOWER SECTION

DRAWN BY: ENGR. UZAIR MANZOOR

CHECKED BY: ENGR. MURTAZA

FILE PATH: D:\NA

DRAWING NO.: B-33

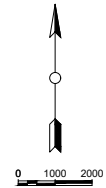
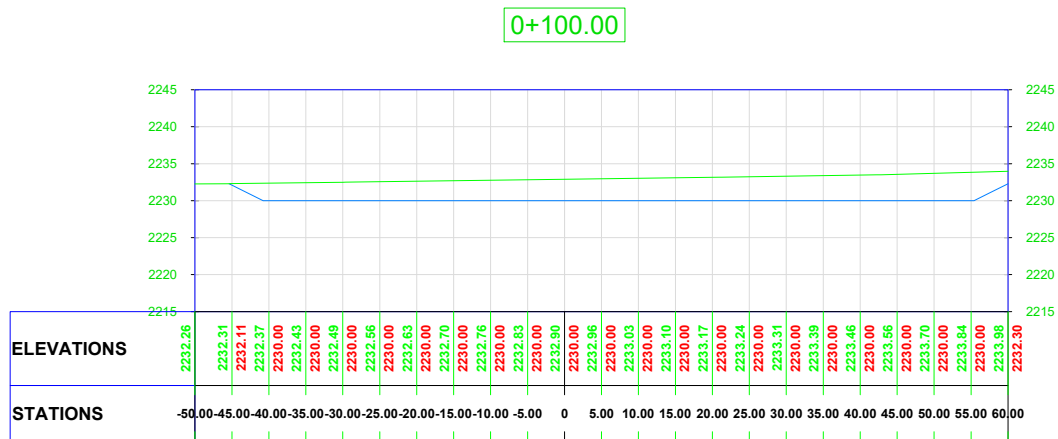
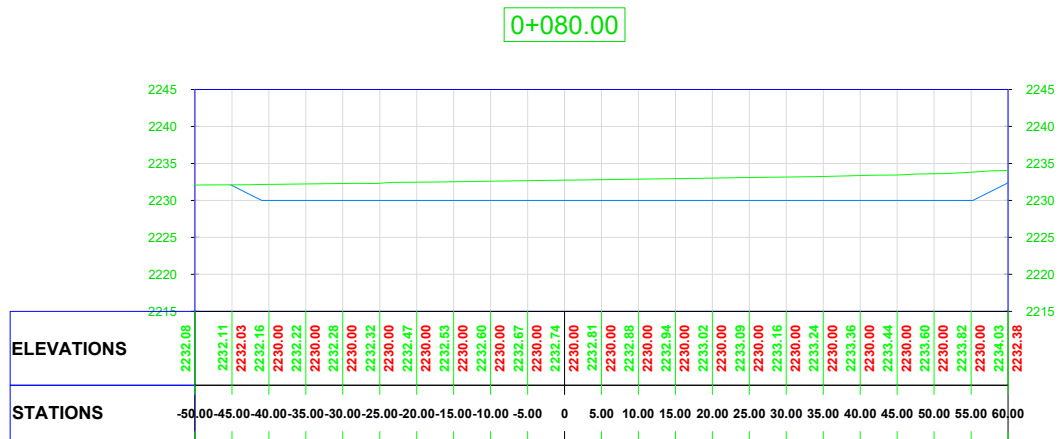
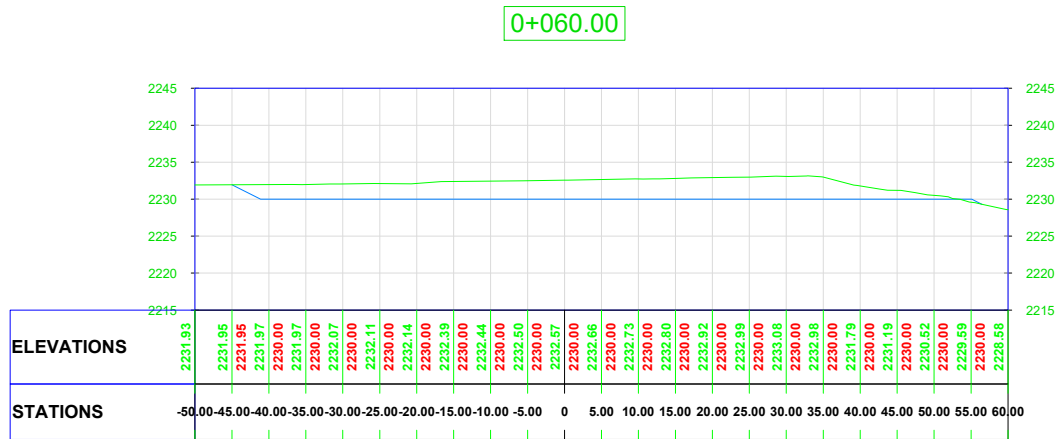
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DATE: 28/12/2025

SHEET:

01

10.12.2025
Drawing plan 100 mpr 207.ramg



General Notes

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300mm

CLIENT:



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ALLIED FACILITIES AT SKARDU
INTERNATIONAL AIRPORT, SKARDU

DRAWING TITLE:

ATC TOWER SECTION

DRAWN BY: ENGR. UZAIR MANZOOR

CHECKED BY: ENGR. MURTAZA

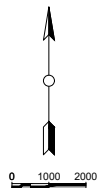
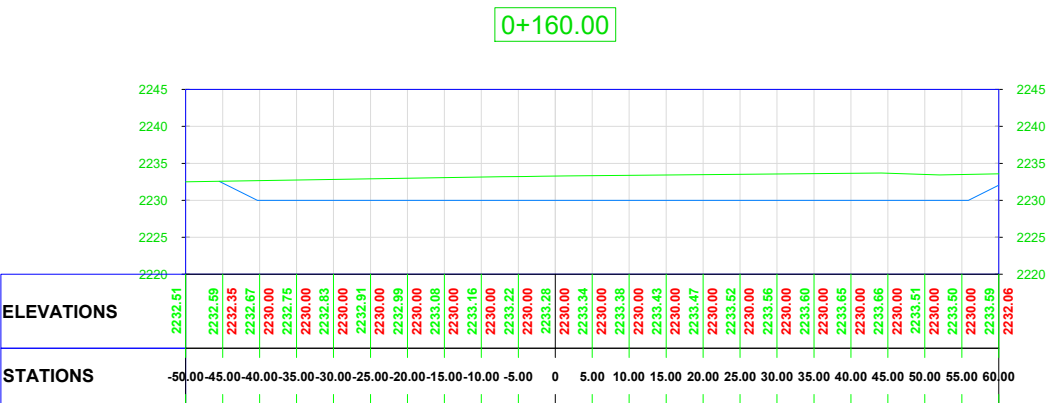
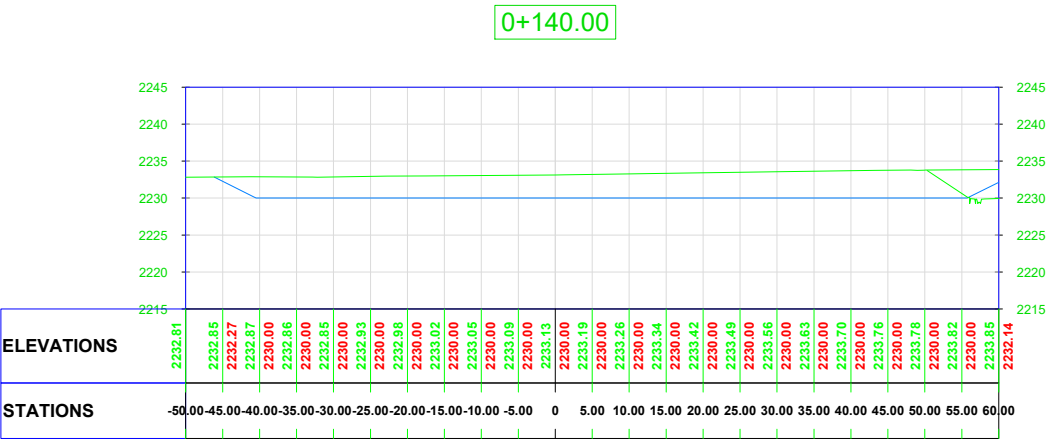
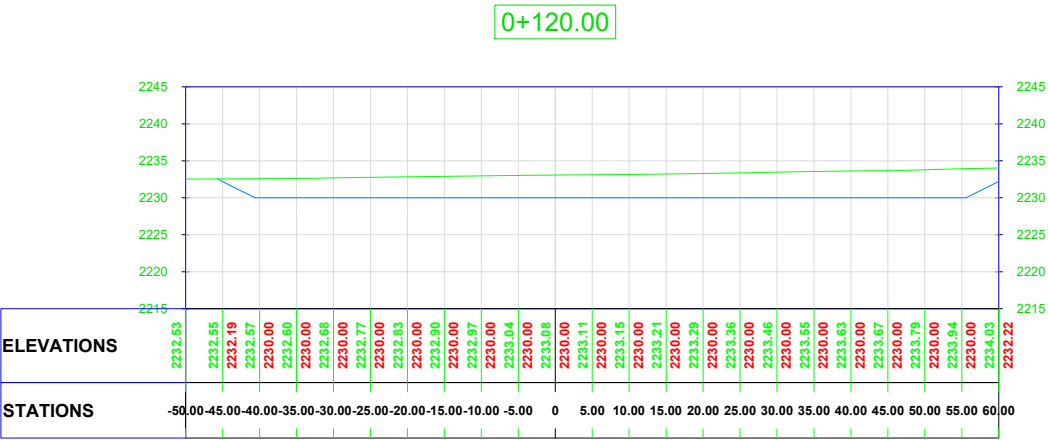
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DRAWING NO: B-34

SCALE:

DATE: 28/12/2025

SHEET: 02



General Notes

ALL LEVELS AND DIMENSIONS
ARE IN METER UNLESS
INDICATED OTHERWISE.
CONTOURS INTERVAL @
300mm

CLIENT:



CONSULTANTS



PROJECT:
CONSULTANCY SERVICES FOR THE
PREPARATION OF DETAILED
DESIGN, PROCUREMENT SUPPORT
AND CONSTRUCTION SUPERVISION
OF NEW AIRTRAFFIC CONTROL
TOWER (ATCT), FIRE STATION AND
ALLIED FACILITIES AT SKARDU
INTERNATIONAL AIRPORT, SKARDU

DRAWING TITLE:
ATC TOWER SECTION

DRAWN BY: ENGR.UZAIR MANZOOR

CHECKED BY: ENGR. MURTAZA

FILE PATH: D:\NA

DRAWING NO.: B-35

SCALE:

DATE: 28/12/2025

SHEET: 03

CONSTRUCTION OF NEW AIR TRAFFIC CONTROL TOWER (ATCT), FIRE STATION AND ALLIED FACILITIES AT SKARDU INTERNATIONAL AIRPORT

(LIST OF DRAWINGS)

ELECTRICAL

NO.	DRAWING NO.	DATE OF DRAWING	AMENDED UPTO DATE	DESCRIPTION
01	E-01	MARCH:2026		MAIN LEGEND
02	E-02	MARCH:2026		GENERAL WIRING NOTES AND EARTHING DETAIL
03	E-03	MARCH:2026		SECTION & DETAILS
04	E-04	MARCH:2026		CEILING CO-ORDINATION
05	E-05	MARCH:2026		CEILING CO-ORDINATION
06	E-06	MARCH:2026		CEILING CO-ORDINATION
07	E-07	MARCH:2026		CEILING CO-ORDINATION
08	E-08	MARCH:2026		CEILING CO-ORDINATION
09	E-09	MARCH:2026		CEILING CO-ORDINATION
10	E-10	MARCH:2026		LIGHTING LAYOUT
11	E-11	MARCH:2026		LIGHTING LAYOUT
12	E-12	MARCH:2026		LIGHTING LAYOUT
13	E-13	MARCH:2026		LIGHTING LAYOUT
14	E-14	MARCH:2026		LIGHTING LAYOUT
15	E-15	MARCH:2026		LIGHTING LAYOUT
16	E-16	MARCH:2026		EMERGENCY & EXIT LIGHT LAYOUT
17	E-17	MARCH:2026		EMERGENCY & EXIT LIGHT LAYOUT
18	E-18	MARCH:2026		EMERGENCY & EXIT LIGHT LAYOUT
19	E-19	MARCH:2026		POWER SOCKETS LAYOUT
20	E-20	MARCH:2026		POWER SOCKETS LAYOUT
21	E-21	MARCH:2026		POWER SOCKETS LAYOUT
22	E-22	MARCH:2026		POWER SOCKETS LAYOUT
23	E-23	MARCH:2026		POWER SOCKETS LAYOUT
24	E-24	MARCH:2026		UPS POWER SOCKETS LAYOUT
25	E-25	MARCH:2026		UPS POWER SOCKETS LAYOUT
26	E-26	MARCH:2026		UPS POWER SOCKETS LAYOUT
27	E-27	MARCH:2026		UPS POWER SOCKETS LAYOUT
28	E-28	MARCH:2026		UPS POWER SOCKETS LAYOUT
29	E-29	MARCH:2026		DATA NETWORKING LAYOUT
30	E-30	MARCH:2026		DATA NETWORKING LAYOUT
31	E-31	MARCH:2026		DATA NETWORKING LAYOUT
32	E-32	MARCH:2026		DATA NETWORKING LAYOUT
33	E-33	MARCH:2026		DATA NETWORKING LAYOUT
34	E-34	MARCH:2026		TELEPHONE & TV SYSTEM LAYOUT
35	E-35	MARCH:2026		TELEPHONE & TV SYSTEM LAYOUT
36	E-36	MARCH:2026		TELEPHONE & TV SYSTEM LAYOUT
37	E-37	MARCH:2026		TELEPHONE & TV SYSTEM LAYOUT
38	E-38	MARCH:2026		TELEPHONE & TV SYSTEM LAYOUT
39	E-39	MARCH:2026		FIRE ALARM & CCTV SYSTEM LAYOUT
40	E-40	MARCH:2026		FIRE ALARM & CCTV SYSTEM LAYOUT
41	E-41	MARCH:2026		FIRE ALARM & CCTV SYSTEM LAYOUT
42	E-42	MARCH:2026		FIRE ALARM & CCTV SYSTEM LAYOUT
43	E-43	MARCH:2026		FIRE ALARM & CCTV SYSTEM LAYOUT
44	E-44	MARCH:2026		FIRE ALARM & CCTV SYSTEM LAYOUT

[illegible]

ISSUE FOR TENDER

LIGHT FIXTURES

S.NO	SYMBOLS	DESCRIPTION	MOUNTING HEIGHT
1		6"x12" DOWN LIGHT FIXTURE WITH 12 WATT	FALSE CEILING OR SLAB
2		6"/4"x48" DOWN LIGHT RECTANGULAR OFFICE 40W	FALSE CEILING OR SLAB
3		4 COMBINED RECTANGULAR HANGING LIGHT 120W	FALSE CEILING OR SLAB
4		CARVE LIGHT 20W LED	FALSE CEILING OR SLAB
5		RECESSED TYPE 2'X2' LED LIGHT PANEL 40 WATT	FALSE CEILING OR SLAB
6		BATTERY OPERATED EXIT LIGHT	12" ABOVE ON DOOR
7		BATTERY OPERATED DIRECTIONAL EXIT LIGHT	HANGING ON SLAB
8		BATTERY OPERATED EMERGENCY LIGHT FIXTURE WITH 2X7 WATT LED	2'-0" BELOW CEILING/SLAB
9		DISTRIBUTION BOARD FOR LIGHTING CIRCUIT & SMALL POWER	2'-6" F.F.L OR IN FLOOR

TELEPHONE SYSTEM

S.NO	SYMBOLS	DESCRIPTION	MOUNTING HEIGHT
1		INDICATES TELEPHONE OUTLET WITH RJ-11 ON M.S	2'-6" F.F.L OR AS REQ.
2		INDICATES TELEPHONE OUTLET WITH RJ-11 ON M.S	0'-9" F.F.L OR AS REQ.
3		INDICATES WIRING IN 1"Ø PVCC FOR TELEPHONE SYSTEM	IN WALL,SLAB OR FLOOR
4		TELEPHONE JUNCTION BOX	12" F.F.L OR AS REQ.
5		TELEPHONE DISTRIBUTION BOARD	12" F.F.L OR AS REQ.
6		CAT-6 4P CPT 75 OHM 23 AWG, LSZH TYPE	IN CONDUIT

ACCESS CONTROL

S.NO	SYMBOLS	DESCRIPTION	MOUNTING HEIGHT
1		CARD READER	ON WALL
2		UNLOCK PUSH POINT	ON WALL
3		ACCESS CONTROL PANEL	WALL MOUNTED
4		ACCESS CONTROL JUNCTION BOX	WALL MOUNTED

WIRING ACCESSORIES

S.NO	SYMBOLS	DESCRIPTION	MOUNTING HEIGHT
1		10 AMPS, ONE WAY AND TWO WAYS GANG TYPE SWITCH	3'-6" F.F.L
2		UNIVERSAL/MULTI PIN SWITCH SOCKET UTILITY	3'-6" F.F.L
3		UNIVERSAL/MULTI PIN SWITCH SOCKET UTILITY	0'-9" F.F.L
4		UNIVERSAL/MULTIPIN SWITCH SOCKET-UPS	0'-9" F.F.L
5		15 AMPS 3-ROUND PIN SWITCH SOCKET	0'-9" F.F.L
6		15 AMPS 3-ROUND PIN SWITCH SOCKET	3'-6" F.F.L
7		20 AMPS 3-ROUND PIN SWITCH SOCKET	3'-6" F.F.L
8		INDUSTRIAL POWER SOCKET (THREE-PHASE)	0'-9" F.F.L
9		INDUSTRIAL POWER SOCKET (SINGLE-PHASE)	0'-9" F.F.L
10		TECHNOLOGY BOX MADE OF M.S SHEET OF 16 SWG OF SIZE 14"x4", CONSISTING OF 1- UNIVERSAL/MULTI PIN SWITCH SOCKET UTILITY 2- UNIVERSAL/MULTIPIN SWITCH SOCKET-UPS 3- RJ-45 DUPLEX, 1 NO. FOR DATA	2'-6" F.F.L
11		WIRING IN 1"DIA PVC CONDUIT	IN WALL, SLAB OR FLOOR

FIRE ALARM SYSTEM

S.NO	SYMBOLS	DESCRIPTION	MOUNTING HEIGHT
1		HEAT DETECTOR RATE OF TEMPERATURE TYPE	ON FALSE CEILING
2		SMOKE DETECTOR NON IONIZATION TYPE.	ON FALSE CEILING
3		ALARM SOUNDER	7'-0"F.F.L
4		MANUAL BREAK GLASS UNIT	3'-6"F.F.L
5		FIRE ALARM JUNCTION BOX	6" TO 9" BELOW SLAB BUT ABOVE FALSE CEILING
6		FIRE ALARM CONTROL PANEL	4'-0"F.F.L
7		WIRING IN 1"DIA PVC FOR FIRE ALARM SYSTEM	ON SLAB AFC

PUBLIC ADDRESS SYSTEM

S.NO	SYMBOLS	DESCRIPTION	MOUNTING HEIGHT
1		WALL SPEAKER	ON WALL
2		AMPLIFIER	-FLOOR MOUNTED -WALL MOUNTED
3		WIRING IN 1"Ø PVC FOR PUBLIC ADDRESS SYSTEM	BIS OR ON SLAB AFC
4		PUBLIC ADDRESS JUNCTION BOX	4'-0"F.F.L OR AS REQ

DATA SYSTEM

S.NO	SYMBOLS	DESCRIPTION	MOUNTING HEIGHT
1		DATA OUTLET WITH RJ-45 SOCKET	2'-6" F.F.L OR IN FLOOR
2		WIFI POINT	ON SLAB
3		WIRING IN 1"Ø PVC FOR COMPUTER SYSTEM	IN WALL,SLAB OR FLOOR
4		DATA NETWORK SWITCH	4'-0" F.F.L OR AS REQ.
5		DATA JUNCTION BOX	4'-0" F.F.L OR AS REQ.
6		CAT-6 4P UTP CABLE 23 AWG, LSZH TYPE, 0.56 mm BARE CU	IN CONDUIT

CLOSE CIRCUIT T.V SYSTEM

S.NO	SYMBOLS	DESCRIPTION	MOUNTING HEIGHT
1		CLOSE CIRCUIT TV CAMERA	-ON WALL 7'-0" -ON SLAB
2		WIRING IN 1"DIA PVCC FOR CCTV SYSTEM	IN WALL, SLAB OR FLOOR
3		CCTV JUNCTION BOX (IF REQ.)	6" TO 9" BELOW SLAB BUT ABOVE FALSE CEILING
4		NETWORK VIDEO RECORDER	AS PER SITE
5		CAT-6 4P UTP CABLE 23 AWG, LSZH TYPE	IN CONDUIT

MATV SYSTEM

S.NO	SYMBOLS	DESCRIPTION	MOUNTING HEIGHT
1		TV OUTLET POINT	0'-9" F.F.L
2		WIRING IN 1"Ø PVC FOR TV CABLE SYSTEM	IN WALL, SLAB OR FLOOR
3		TV JUNCTION BOX	4'-0" F.F.L
4		TV SPLITTER	4'-0" F.F.L
5		CAT-6 4P UTP CABLE 23 AWG, LSZH TYPE	IN CONDUIT

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CLIENT NAME



MAIN CONSULTANT



JV MEMBERS



STRUCTURAL CONSULTANT



MEP CONSULTANT



Project Name

Consultancy Services for New Air Traffic Control Tower (ATCT), Fire Station and Allied Facilities at Skardu International Airport

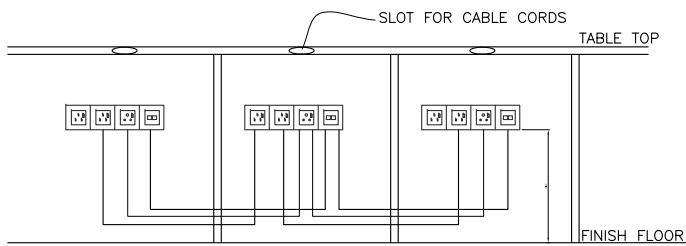
DETAILED ELECTRICAL Design Drawings

Sheet Name

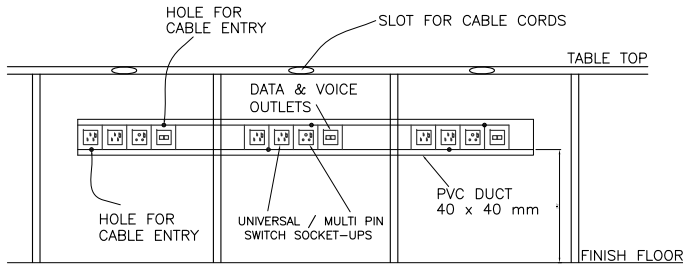
MAIN LEGEND

Date	April, 2026
Scale	NTS
Drawn by	A.S.B
Checked by	M.K
Approved by	M.F
Drawing No.	E-01

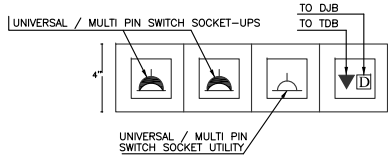
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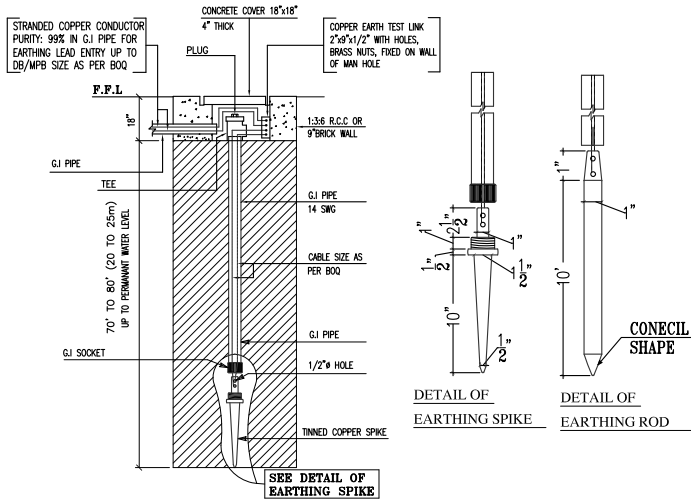
TYPICAL ARRENGMENTS OF TECHNOLOGY BORAD
& CONDUITS FIXED ON WORK STATION



TYPICAL ARRENGMENTS OF TECHNOLOGY BORAD
&PVC DUCTS FIXED ON WORK STATION



EARTHING DETAIL BORE TYPE

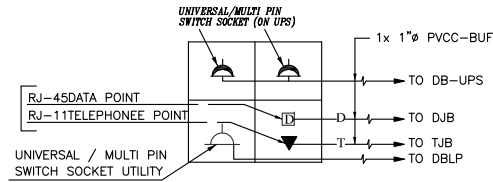


GENERAL & WIRING NOTES:-

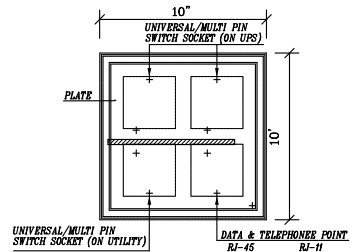
- ALL ELECTRICAL WORKS PERTAINING TO WIRING OF ELECTRICAL SYSTEMS SHALL STRICTLY CONFORM TO I.E.E LATEST EDITION OF RULES & REGULATIONS.
- ALL WIRING SHALL BE DONE IN PVC CONDUIT TO BE CONCEALED IN WALLS, SLABS,COLUMNS AND FLOOR OR AS SHOWN ON DRAWINGS.
- THE WIRING SHOULD BE STARTED ONLY AFTER THE CONDUIT SYSTEM HAS BEEN COMPLETED AND ALL OUTLET BOXES ARE FIXED AT THEIR RESPECTIVE POSITIONS.
- ALL PVC CONDUITS SHALL BE OF 1"Ø (DEPENDING UPON NUMBER OF WIRES) FROM SWITCH BOARD TO LIGHT POINTS & 1" D1A FROM DBs TO SWITCH BOARDS AND POWER SOCKETS OR AS SHOWN ON DRAWINGS.
- LIGHT / FAN POINT CONTROLLED BY ONE WAY SWITCH. WIRED WITH 2x1.5mm sq FOR(P+N) 1x2.5mmsq AS EARTH(E) WIRE.
- LIGHTING CIRCUITS FROM RESPECTIVE DB TO SWITCH SOCKET WIRED WITH 3x2.5mm sq AS P+N+E
- SOCKETS WIRED IN PARALLEL WITH 3x2.5mm sq AS P+N+E
- POWER SOCKETS WIRED WITH 3x4mmSq AS P+N+E
- SA/C 1–1.5 TON WIRED WITH 3x6mmSq AS P+N+E
- SA/C 2– 2.5 TON WIRED WITH 3x6mmSq AS P+N+E
- NO LUBRICATION EXCEPT AS RECOMMENDED BY MANUFACTURER SHALL BE USED FOR PULLING OF WIRES IN PVC CONDUITS. NO OIL OF ANY KIND SHALL BE USED.
- COLOUR CODING FOR WIRING SHALL BE AS FOLLOWS: RED, YELLOW AND BLUE FOR PHASES, BLACK FOR NEUTRAL AND GREEN / YELLOW FOR CPC (EARTH).
- ALL LIGHT POINTS AND POWER SOCKETS SHALL BE PROPERLY EARTHED WITH 2.5mm sq PVC INSULATED WIRES OF COLOUR GREEN–YELLOW.
- THE NUMBER OF WIRES TO BE PULLED IN ANY CONDUIT FOR WIRING PURPOSES SHALL CONFORM TO IEE. TABLE
- 1" DIA PVC CONDUIT SHALL BE USED FOR WIRING OF ALL OTHER SYSTEMS UNLESS OTHERWISE MENTIONED ON PLANS OR AS SPECIFIED IN BOQ.
- ELECTRICAL CONTRACTOR TO CONSULT ELECTRICAL CONSULTANT/ENGINEER FOR ANY FURTHER CLARIFICATIONS. NO ASSUMPTIONS SHOULD BE MADE.

NOTES FOR EARTHING SYSTEM

- EARTH BORE SHALL BE MADE AT 6'–0" AWAY FROM FOUNDATION.
- DISTANCE BETWEEN 2 EARTH BORES SHALL NOT BE GREATER THEN 10ft (3m)
- COPPER CONDUCTOR AT TOP OF G.I. PIPE SHALL BE BOLTED WITH THIMBLES, BRASS NUTS, BOLTS ETC.
- JOINTS SHALL BE COVERED WITH BITUMEN
- CONTRACTOR TO MEASURE EARTHING RESISTANCE IN THE PRESENCE OF SITE ENGINEER. BOTH THE SITE ENGINEER AND CONTRACTOR SHALL SIGN THE EARTH TESTING RESULT AND SUBMIT IT TO THE CONSULTANT.

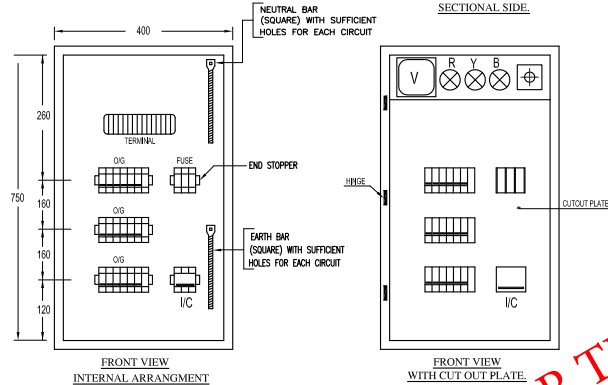
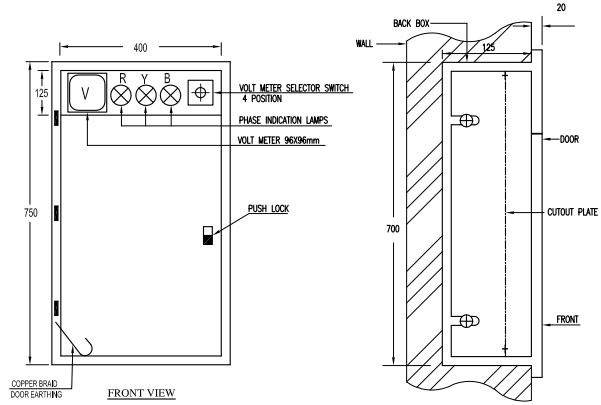
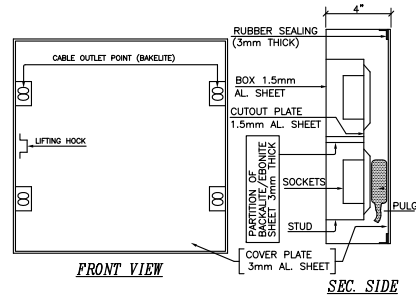


TENTATIVE DETAIL OF FLOOR OUTLET PLATE



TENTATIVE DETAIL OF M.S FLOOR OUTLET BOX- (FOB)

- BURIED FLUSH WITH FINISHED FLOOR LEVEL
- SAMPLE TO BE SUBMITTED TO CONSULTANT FOR APPROVAL SEE BOQ.



TENTATIVE CONSTRUCTIONAL DETAIL OF:-
DISTRIBUTION BOARD (DB)- RECESSED TYPE

ISSUE FOR TENDER

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CLIENT NAME



MAIN CONSULTANT



JV MEMBERS



STRUCTURAL CONSULTANT



MEP CONSULTANT



Project Name

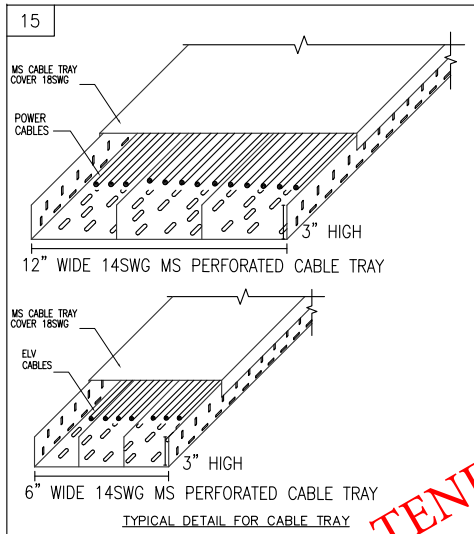
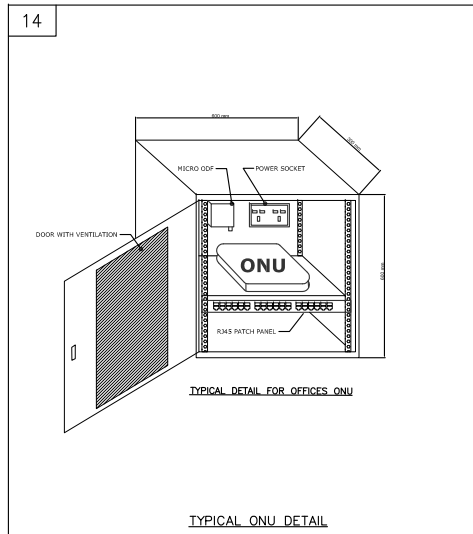
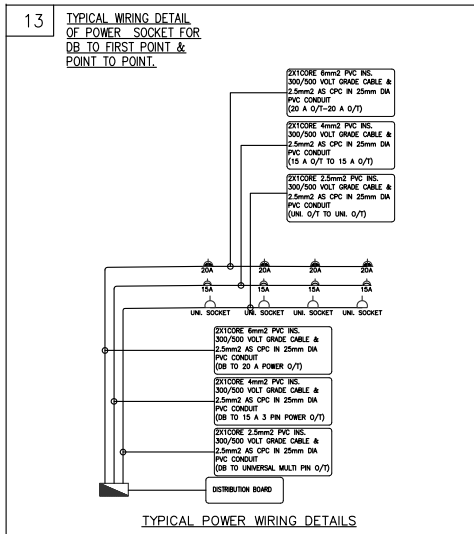
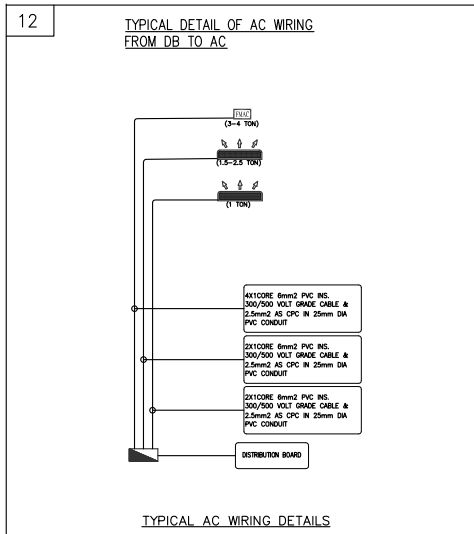
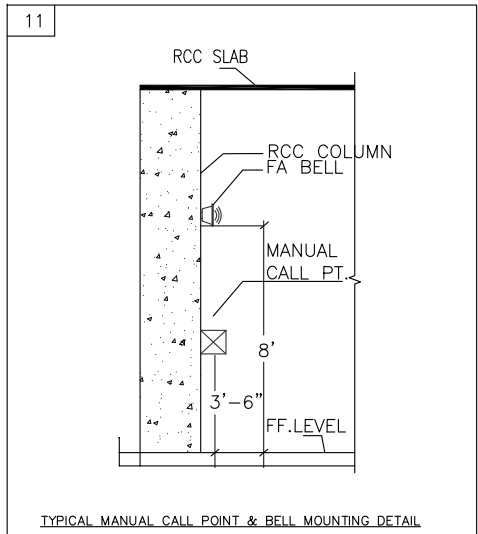
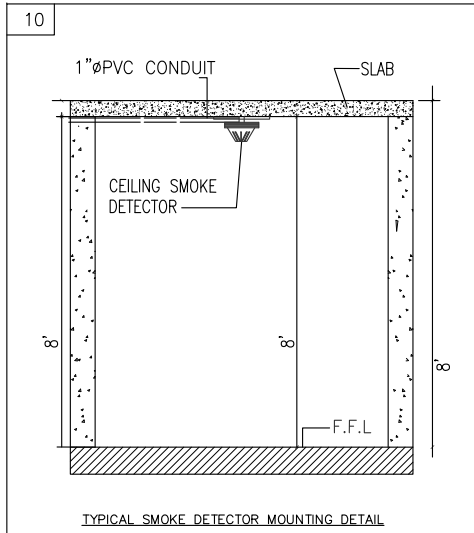
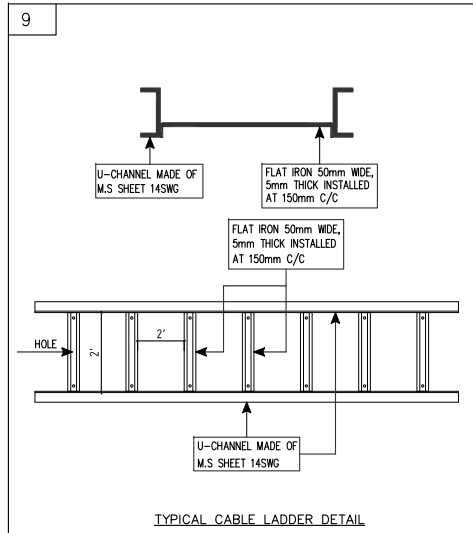
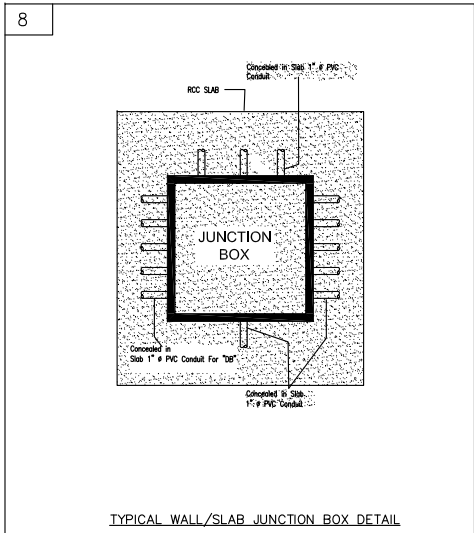
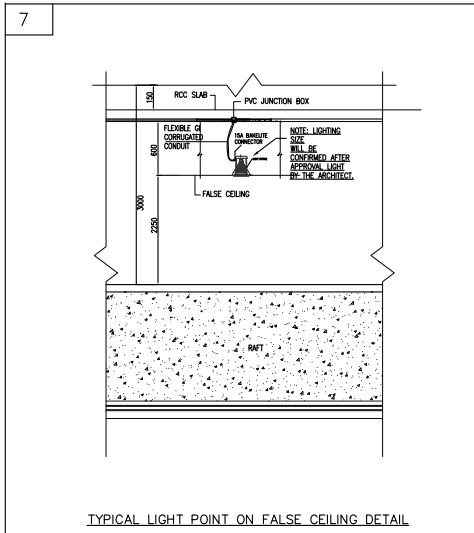
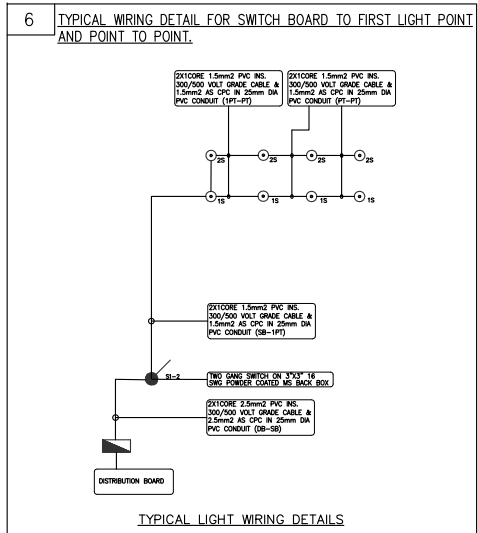
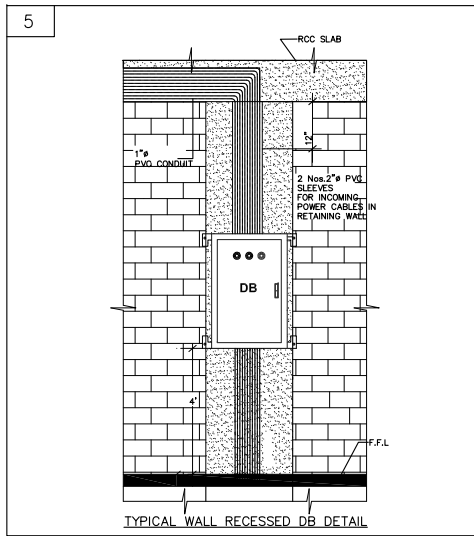
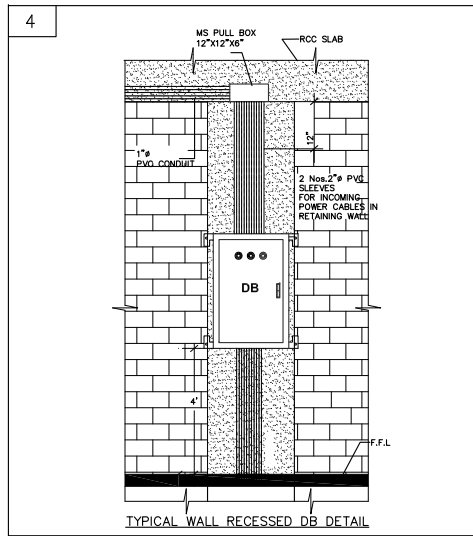
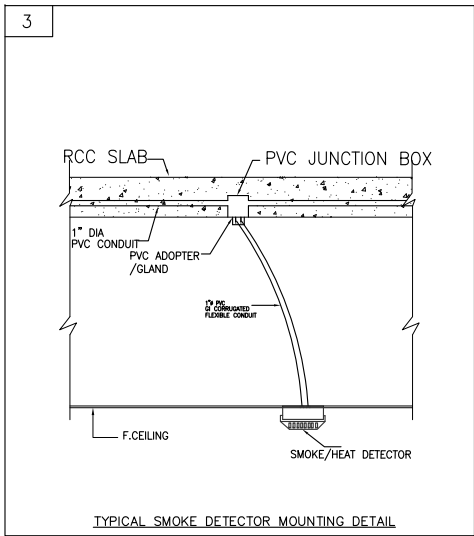
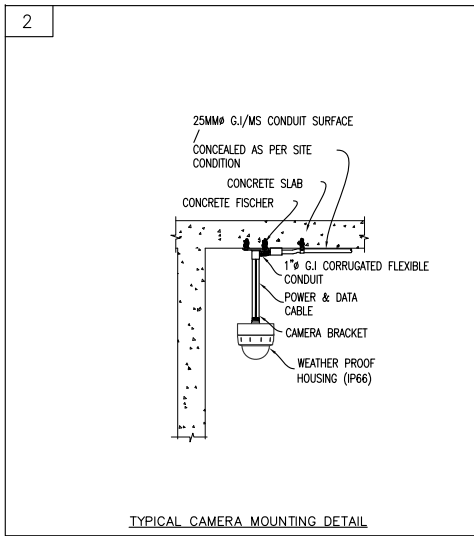
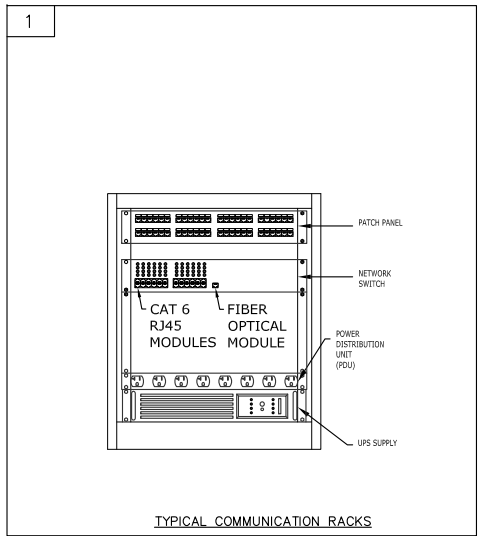
Consultancy Services for New Air Traffic Control Tower (ATCT), Fire Station and Allied Facilities at Skardu International Airport

DETAILED ELECTRICAL Design Drawings

Sheet Name

GENERAL WIRING NOTES AND EARTHING DETAIL

Date	April, 2026
Scale	NTS
Drawn by	A.S.B
Checked by	M.K
Approved by	M.F
Drawing No.	E-02



NOTES:

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CLIENT NAME



MAIN CONSULTANT



JV MEMBERS



STRUCTURAL CONSULTANT



MEP CONSULTANT



Project Name

Consultancy Services for New Air Traffic Control Tower (ATCT), Fire Station and Allied Facilities at Skardu International Airport

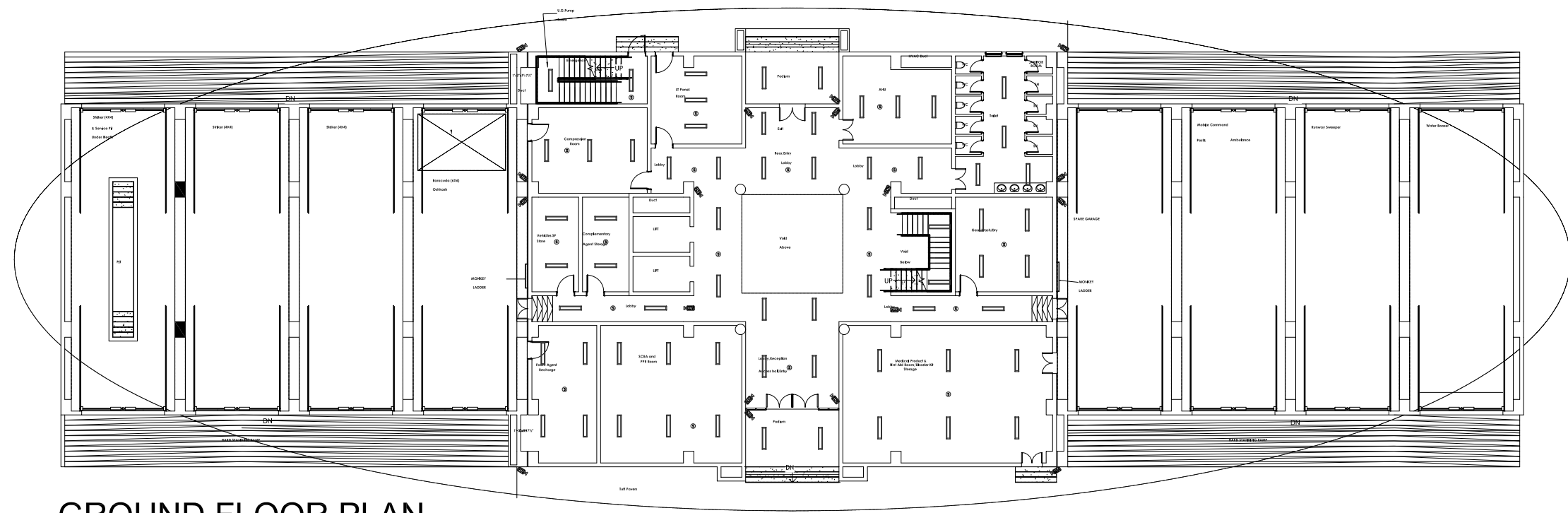
DETAILED ELECTRICAL Design Drawings

Sheet Name

SECTION & DETAILS

Date	April, 2026
Scale	NTS
Drawn by	A.S.B
Checked by	M.K
Approved by	M.F
Drawing No.	E-03

ISSUE FOR TENDER



GROUND FLOOR PLAN

ISSUE FOR TENDER

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CLIENT NAME	
MAIN CONSULTANT	
JV MEMBERS	
STRUCTURAL CONSULTANT	
MEP CONSULTANT	
Project Name	
Consultancy Services for New Air Traffic Control Tower (ATCT), Fire Station and Allied Facilities at Skardu International Airport	
DETAILED ELECTRICAL Design Drawings	
Sheet Name	
CEILING CO-ORDINATION	
Date	April, 2026
Scale	NTS
Drawn by	A.S.B
Checked by	M.K
Approved by	M.F
Drawing No.	E-04

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CLIENT NAME



MAIN CONSULTANT



JV MEMBERS



STRUCTURAL CONSULTANT



MEP CONSULTANT



Project Name

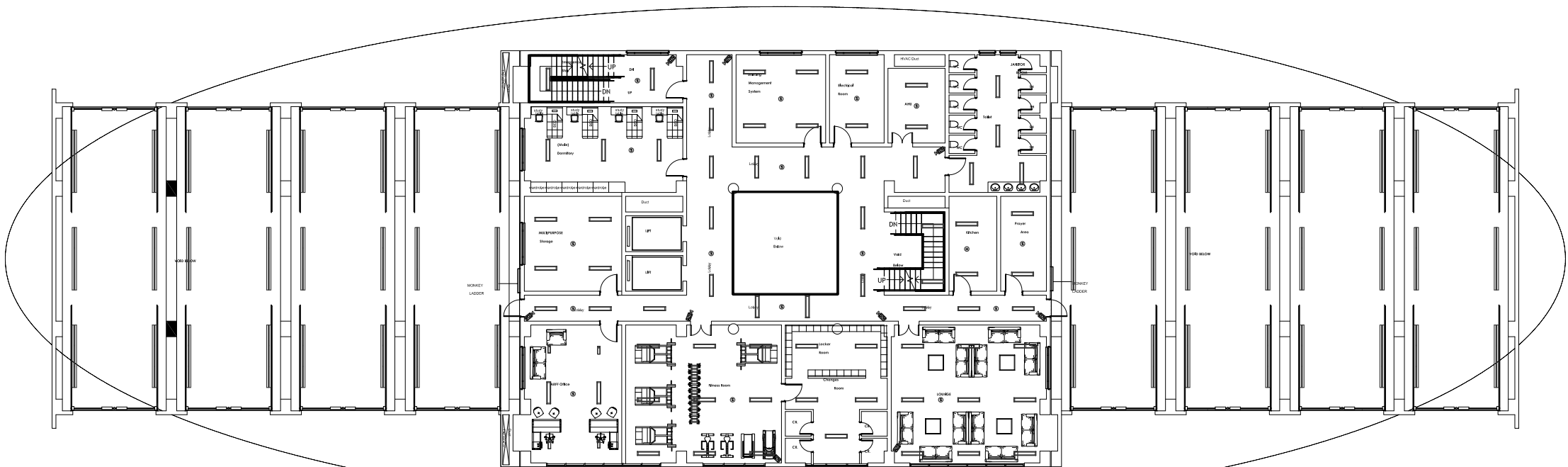
Consultancy Services for New Air Traffic Control Tower (ATCT), Fire Station and Allied Facilities at Skardu International Airport

DETAILED ELECTRICAL Design Drawings

Sheet Name

CEILING CO-ORDINATION

Date	April, 2026
Scale	NTS
Drawn by	A.S.B
Checked by	M.K
Approved by	M.F
Drawing No.	E-05



ARFF FLOOR
MEZZANINE FLOOR PLAN

ISSUE FOR TENDER

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CLIENT NAME



MAIN CONSULTANT



JV MEMBERS



STRUCTURAL CONSULTANT



MEP CONSULTANT



Project Name

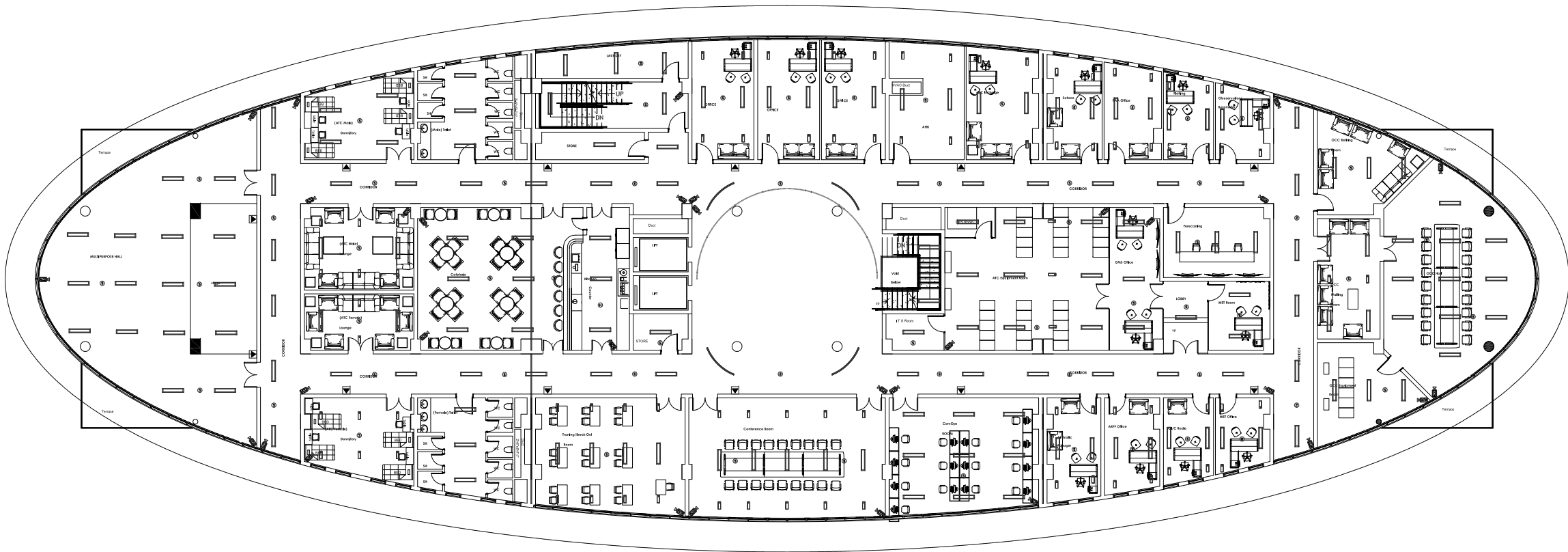
Consultancy Services for New Air Traffic Control Tower (ATCT), Fire Station and Allied Facilities at Skardu International Airport

DETAILED ELECTRICAL Design Drawings

Sheet Name

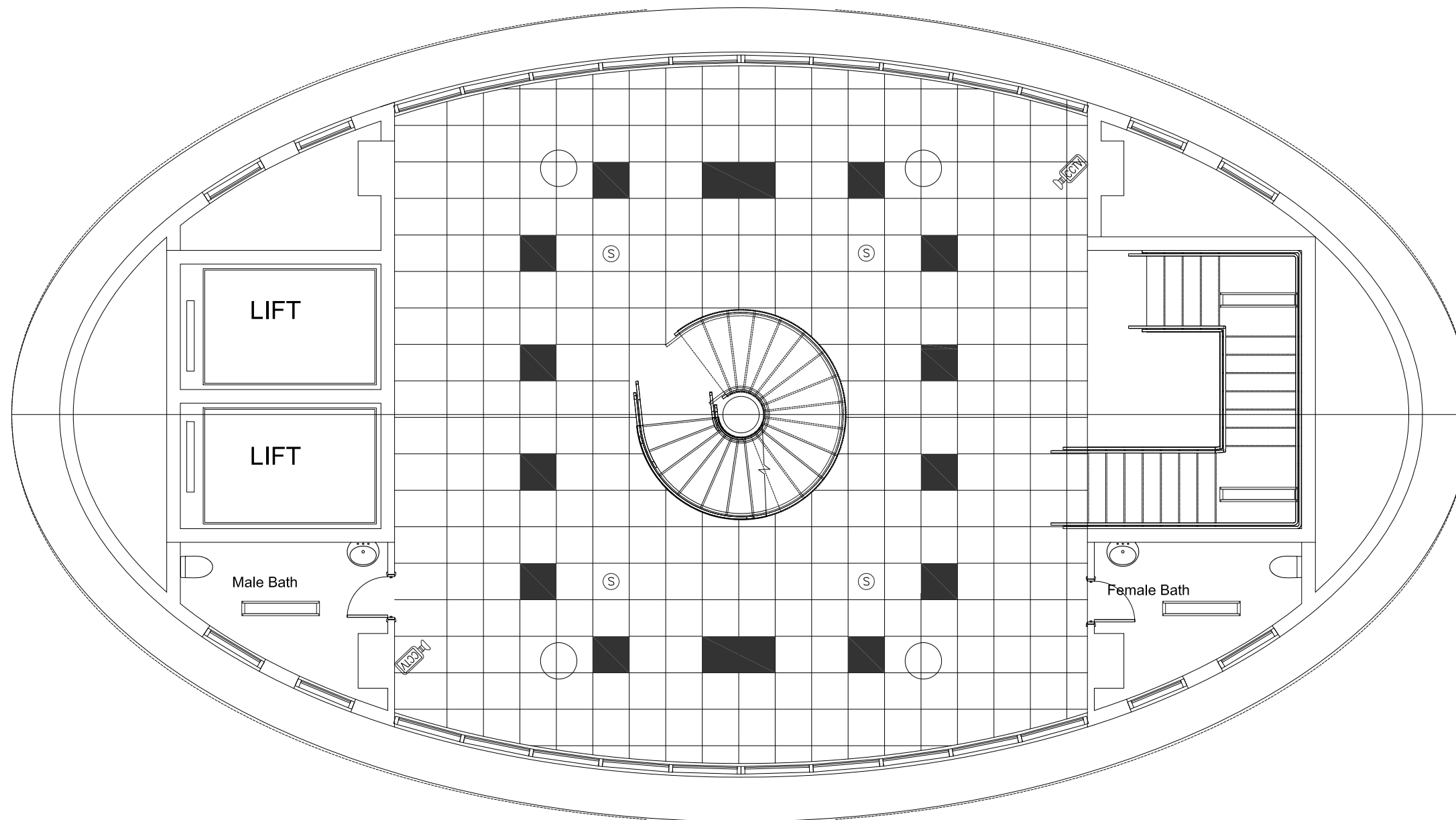
CEILING CO-ORDINATION

Date	April, 2026
Scale	NTS
Drawn by	A.S.B
Checked by	M.K
Approved by	M.F
Drawing No.	E-06



FIRST FLOOR PLAN

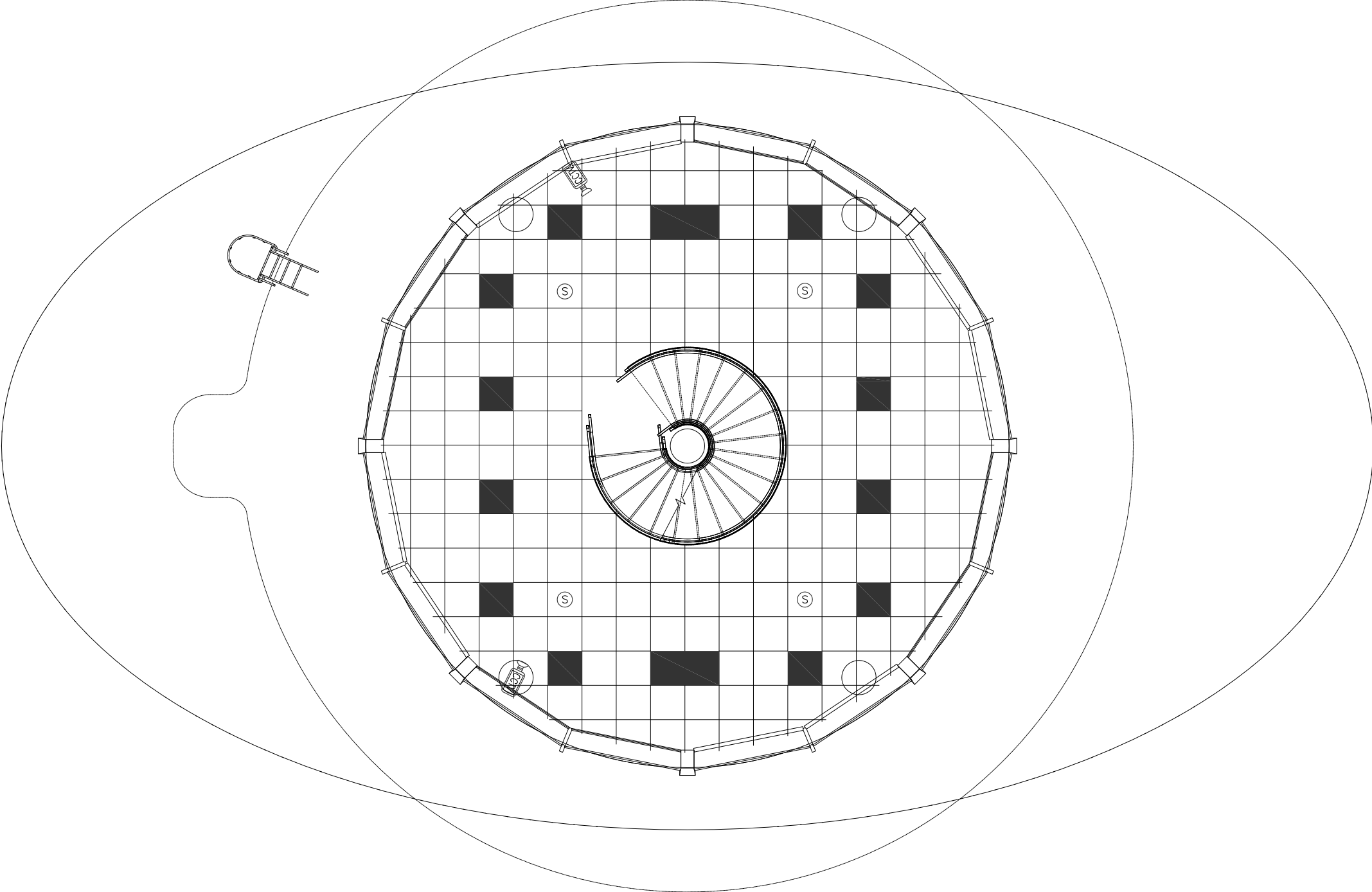
ISSUE FOR TENDER



ROOF FLOOR PLAN LEVEL AT 43'-6"
COVERED AREA 2802 Sft

ISSUE FOR TENDER

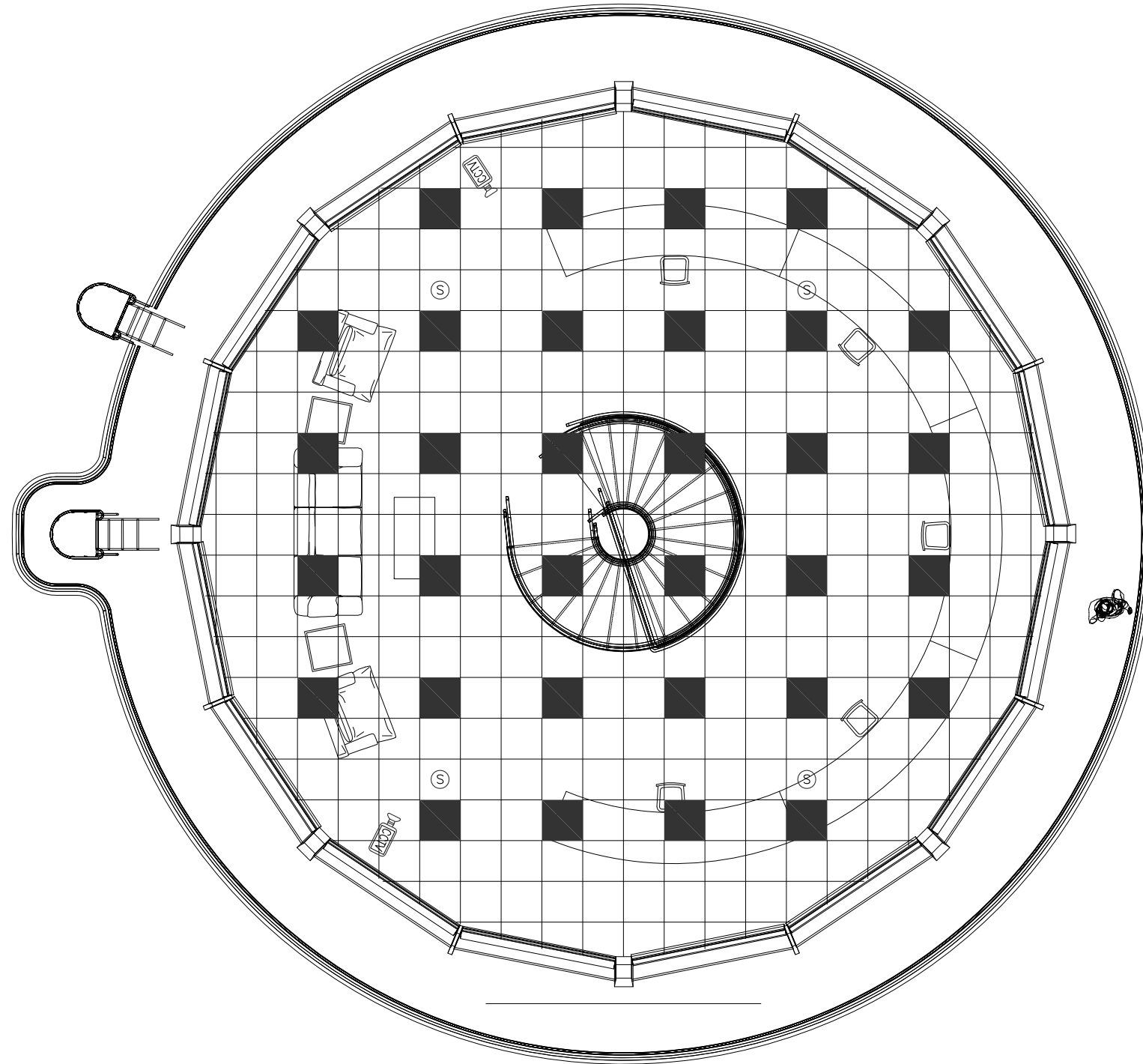
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CLIENT NAME	
MAIN CONSULTANT	
JV MEMBERS	
STRUCTURAL CONSULTANT	
MEP CONSULTANT	
Project Name	
Consultancy Services for New Air Traffic Control Tower (ATCT), Fire Station and Allied Facilities at Skardu International Airport	
DETAILED ELECTRICAL Design Drawings	
Sheet Name	
CEILING CO-ORDINATION	
Date	April, 2026
Scale	NTS
Drawn by	A.S.B
Checked by	M.K
Approved by	M.F
Drawing No.	E-07



ARFF FLOOR PLAN LEVEL AT 53'-6"
COVERED AREA 2123 Sft

ISSUE FOR TENDER

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CLIENT NAME	
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 Anwar Ali Architects (Pvt.) Ltd. Consulting,Architects,Engineers Planners & Management Consultants 06 HBFC BLOCK A FASAL TOWN LAHORE	
JV MEMBERS	
STRUCTURAL CONSULTANT	
 Architects, Structural, Earthquake Engineering, Geo Technical, Public Health, Highway, Electrical Design Solution. Office # 4, 2nd Floor,Sultana Arcade Firdous Market, Gulberg-III, Lahore. Ph: 042-35831906 03008813921, E-mail: arengineers786@gmail.com	
MEP CONSULTANT	
 MEP CONSULTANT SUITE-14,3RD FLOOR JINNAH MALL IZMIR TOWN, IZR Cell no: 0322-3924199 E-mail: abstractorseng@gmail.com	
Project Name	
Consultancy Services for New Air Traffic Control Tower (ATCT), Fire Station and Allied Facilities at Skardu International Airport	
DETAILED ELECTRICAL Design Drawings	
Sheet Name	
CEILING CO-ORDINATION	
Date	April, 2026
Scale	NTS
Drawn by	A.S.B
Checked by	M.K
Approved by	M.F
Drawing No.	E-08



ATCT FLOOR PLAN LEVEL AT 65'-6"
COVERED AREA 1548 Sft

ISSUE FOR TENDER

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CLIENT NAME	
MAIN CONSULTANT	
JV MEMBERS	
STRUCTURAL CONSULTANT	
MEP CONSULTANT	
Project Name	
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DETAILED ELECTRICAL Design Drawings	
Sheet Name	
CEILING CO-ORDINATION	
Date	April, 2026
Scale	NTS
Drawn by	A.S.B
Checked by	M.K
Approved by	M.F
Drawing No.	E-09