PROPOSED AGRO-PROCESSING HUB

CDEL PROJECT

SHINKAFI, KATSINA LGA

KATSINA STATE

DETAILED DESIGN DRAWING

COOPI-Cooperazionale Internazionale

EFAB ESTATE NO 19 LONDON STREET
KARSANA, GWARIMPA, ABUJA

COOPERAZIONE INTERNAZIONALE

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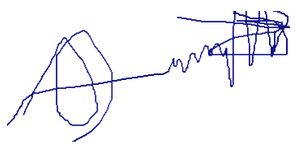
KATSINA STATE DEVELOPMENT MANAGEMENT BOARD

OCTOBER, 2026

For Tender

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Status	Review	Version
Discipline	Common	V1-A00

General Notes

All dimensions are in milimeters except specified.
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No.	Description	Date

Beneficiaries:
Shinkafi Community, Katsina LGA, Katsina State

Project:
Proposed Agro-Processing Hub, Shinkafi, Katsina

Sheet ID 3D-1

Project number	CDEL/KT/APP-01
Date	October, 2026
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Checked by	Prof. Jamil Usman
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Status	Review	Version
Discipline	Common	V1-A01

General Notes

All dimensions are in milimeters except specified.
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No.	Description	Date

Beneficiaries:
Shinkafi Community, Katsina LGA, Katsina State

Project:
Proposed Agro-Processing Hub, Shinkafi, Katsina

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Project number	CDEL/KT/APP-01
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Status	Review	Version
Discipline	Common	V1-A02

General Notes

All dimensions are in milimeters except specified.
All specifications to be used as provided.

No.	Description	Date

Beneficiaries:
Shinkafi Community, Katsina LGA, Katsina State

Project:
Proposed Agro-Processing Hub, Shinkafi, Katsina

Sheet ID **3D-3**

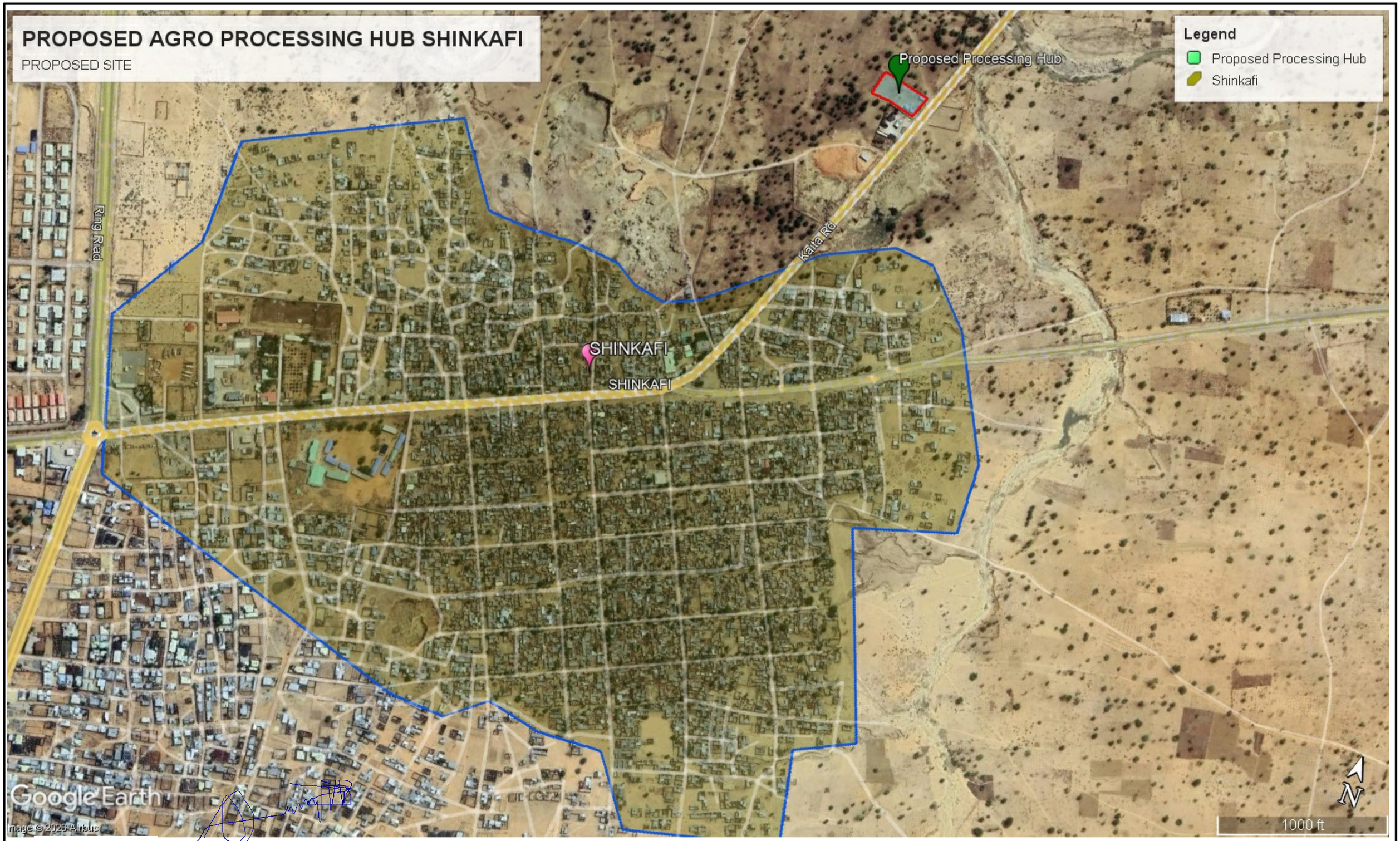
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Date	October, 2026
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PROPOSED AGRO PROCESSING HUB SHINKAFI

PROPOSED SITE



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Status	Review	Version
Discipline	Common	V1-A02-B

General Notes

All dimensions are in milimeters except specified.
All specifications to be used as provided.

No.	Description	Date

Beneficiaries:
Shinkafi Community, Katsina LGA, Katsina State

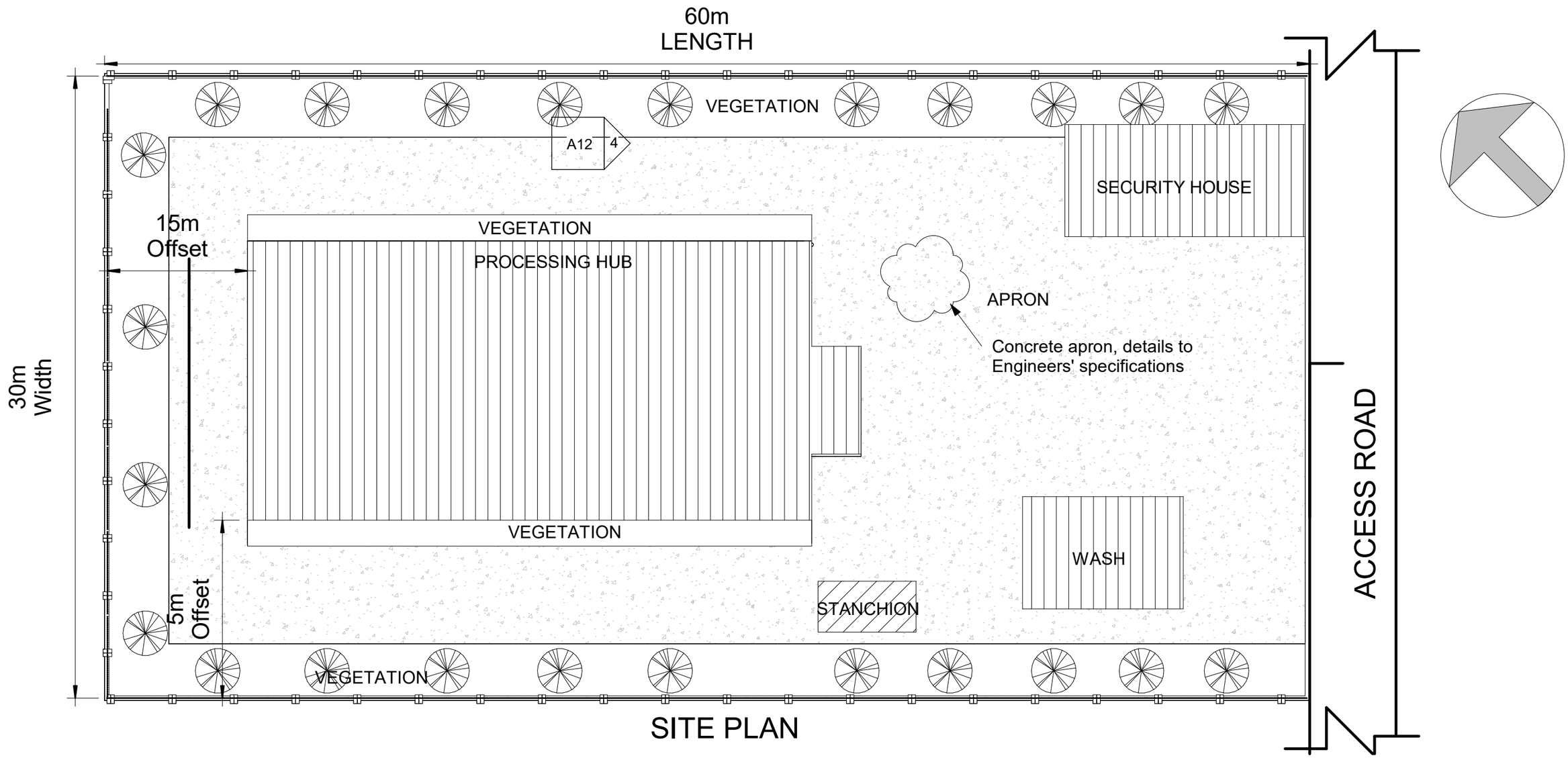
Project:
Proposed Agro-Processing Hub, Shinkafi, Katsina

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Project number	CDEL/KT/APP-01
Date	October, 2026
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SITE PLAN

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Status	Review	Version
Discipline	Common	V1-A03

General Notes

All dimensions are in milimeters except specified.
All specifications to be used as provided.

No.	Description	Date
1	Revision 1	Date 1

Beneficiaries:
Shinkafi Community, Katsina LGA, Katsina State

Project:
Proposed Agro-Processing Hub, Shinkafi, Katsina

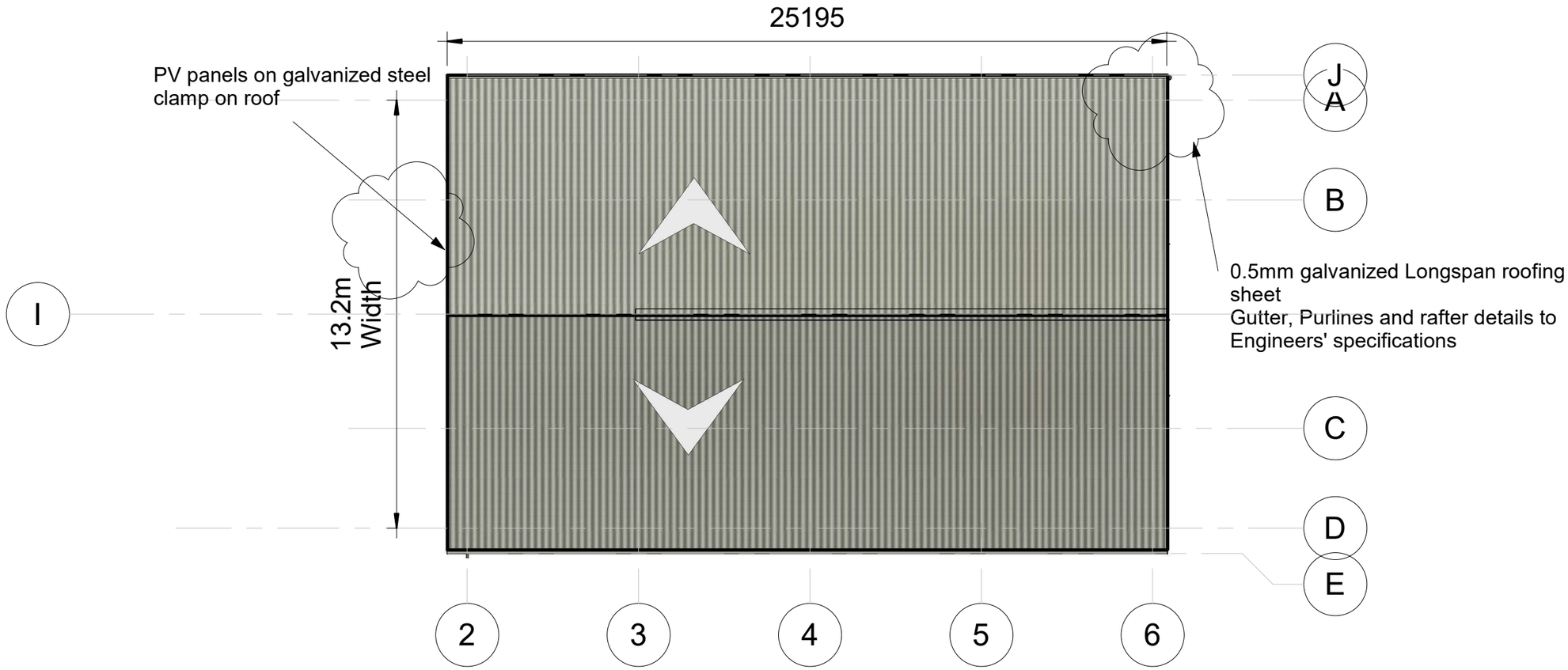
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Project number	CDEL/KT/APP-01
Date	October, 2026
Drawn by	A. A Kantoma
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A03

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ROOF PLAN

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Status	Review	Version
Discipline	Common	V1-A04

General Notes

All dimensions are in milimeters except specified.
All specifications to be used as provided.

No.	Description	Date
1	Revision 1	Date 1

Beneficiaries:
Shinkafi Community, Katsina LGA, Katsina State

Project:
Proposed Agro-Processing Hub, Shinkafi, Katsina

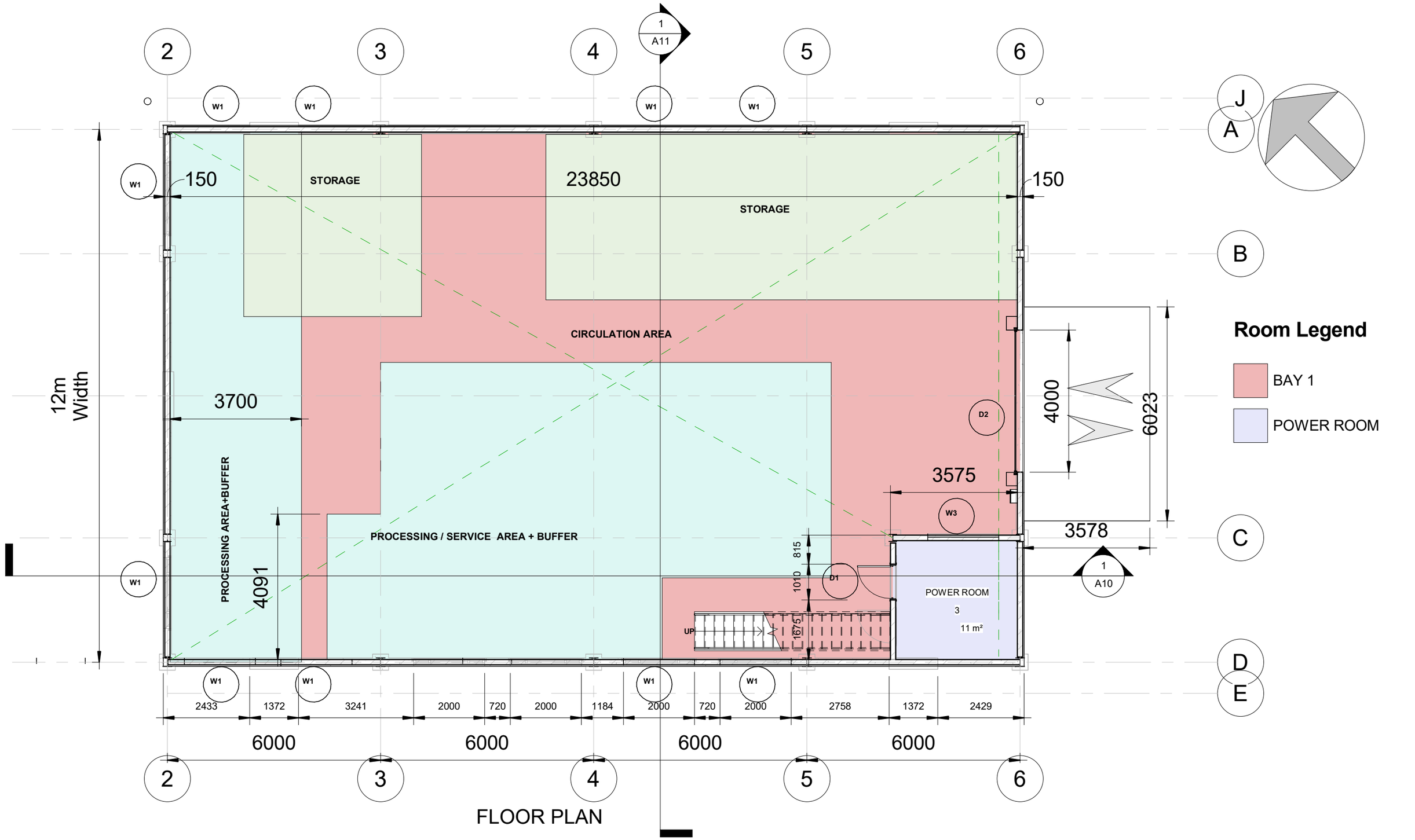
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Project number	CDEL/KT/APP-01
Date	October, 2026
Drawn by	A. A Kantoma
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A04

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FLOOR PLAN

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Status	Review	Version
Discipline	Common	V1-A05

General Notes

All dimensions are in milimeters except specified.
All specifications to be used as provided.

No.	Description	Date

Beneficiaries:
Shinkafi Community, Katsina LGA, Katsina State

Project:
Proposed Agro-Processing Hub, Shinkafi, Katsina

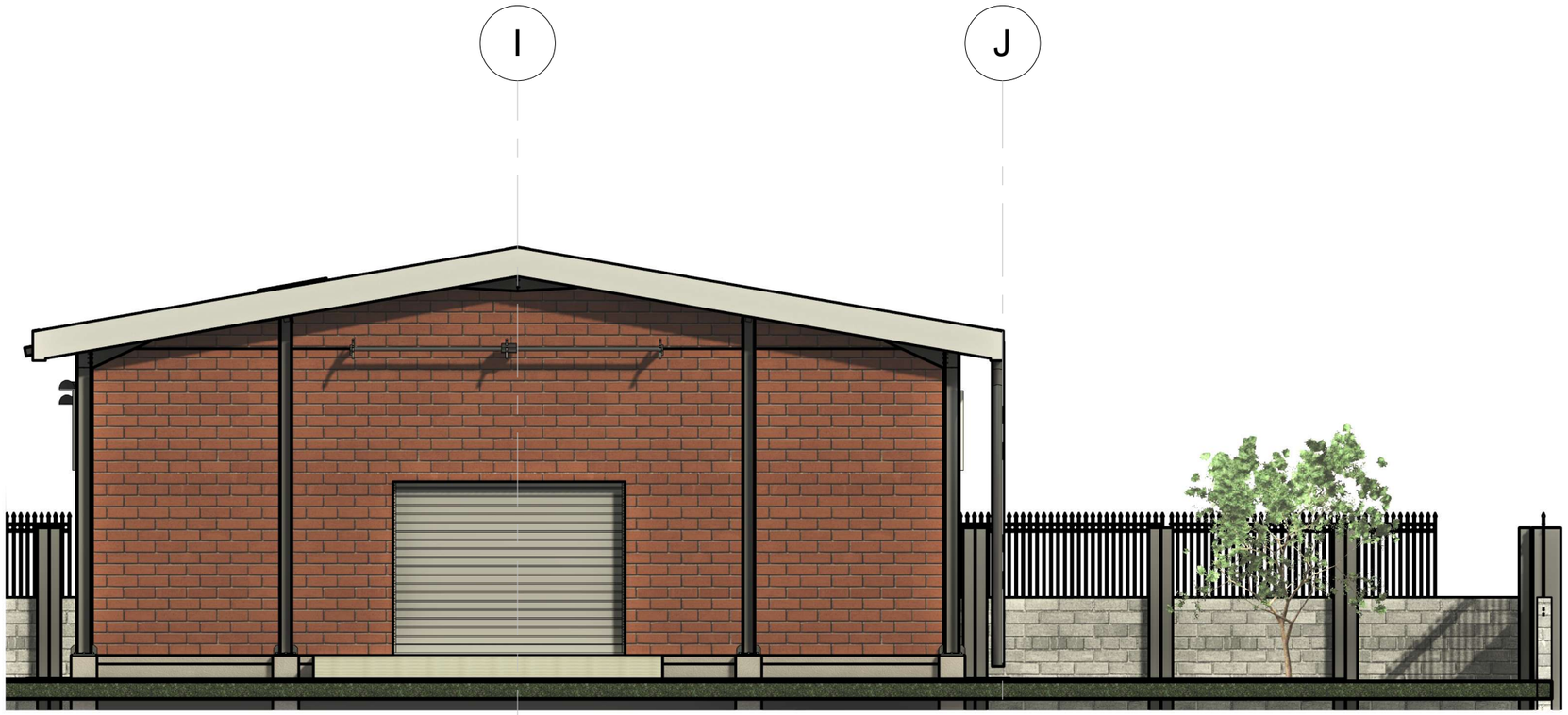
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Project number	CDEL/KT/APP-01
Date	October, 2026
Drawn by	A. A Kantoma
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Scale	1 : 100

A05

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APPROACH ELEVATION

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Status	Review	Version
Discipline	Common	V1-A06

General Notes

All dimensions are in milimeters except specified.
All specifications to be used as provided.

No.	Description	Date

Beneficiaries:
Shinkafi Community, Katsina LGA, Katsina State

Project:
Proposed Agro-Processing Hub, Shinkafi, Katsina

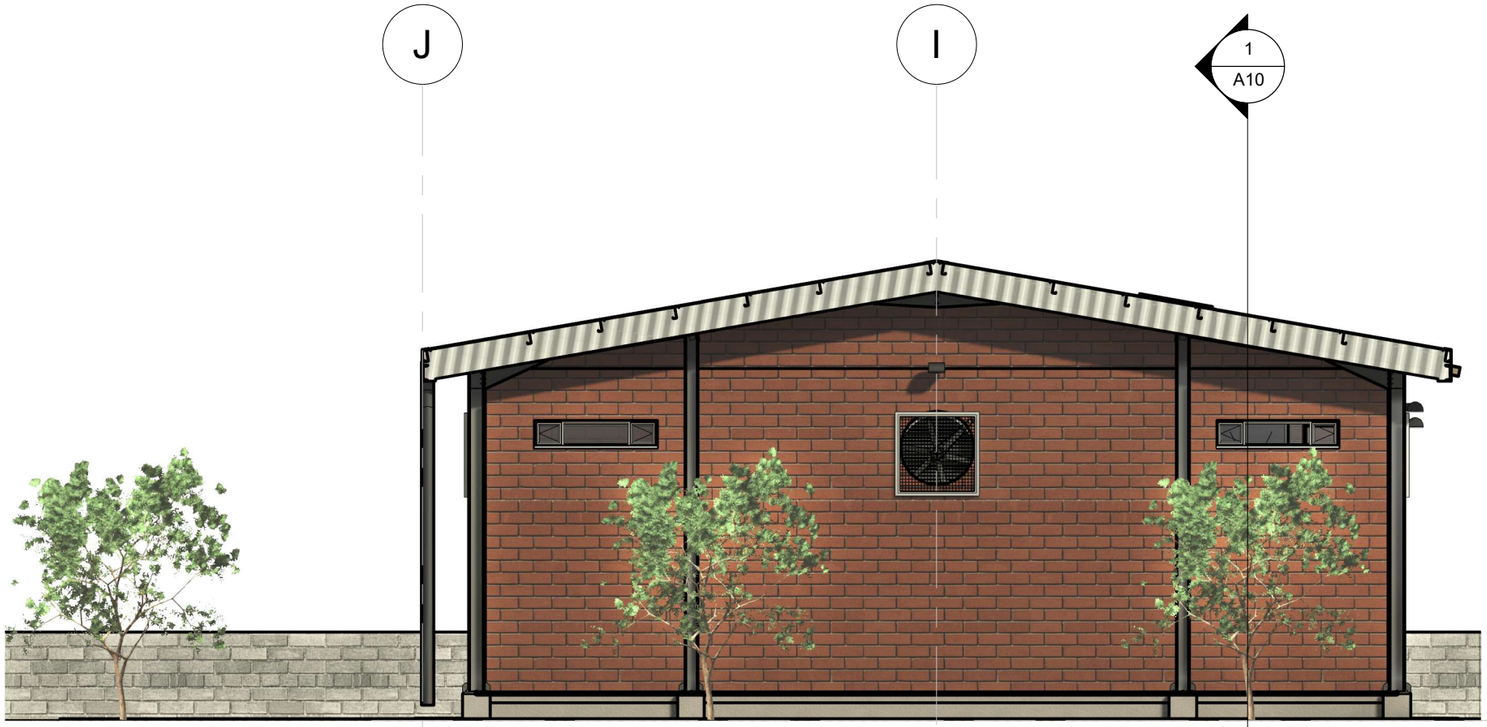
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EAST ELEVATION

Project number	CDEL/KT/APP-01
Date	October, 2026
Drawn by	A. A Kantoma
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Scale	1 : 100

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REAR ELEVATION

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Status	Review	Version
Discipline	Common	V1-A07

General Notes

All dimensions are in milimeters except specified.
All specifications to be used as provided.

No.	Description	Date

Beneficiaries:
Shinkafi Community, Katsina LGA, Katsina State

Project:
Proposed Agro-Processing Hub, Shinkafi, Katsina

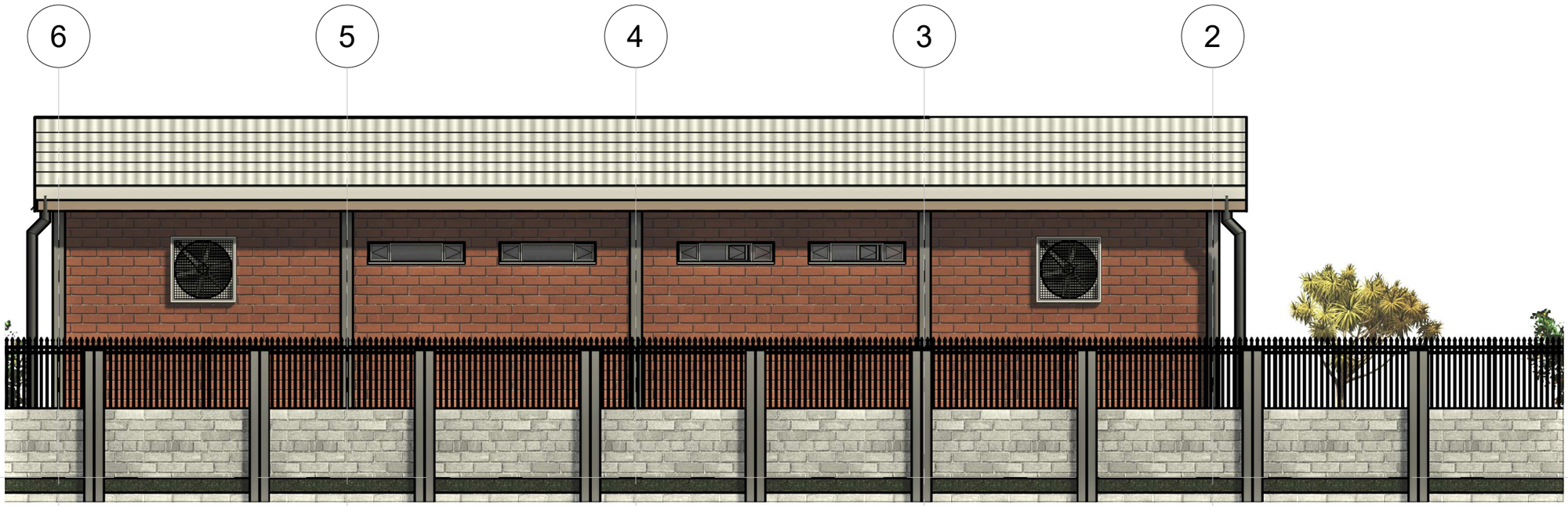
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Project number	CDEL/KT/APP-01
Date	October, 2026
Drawn by	A. A Kantoma
Checked by	Arc. Derick E.
Scale	1 : 100

A07

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LEFT ELEVATION

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Status	Review	Version
Discipline	Common	V1-A08

General Notes

All dimensions are in milimeters except specified.
All specifications to be used as provided.

No.	Description	Date

Beneficiaries:
Shinkafi Community, Katsina LGA, Katsina State

Project:
Proposed Agro-Processing Hub, Shinkafi, Katsina

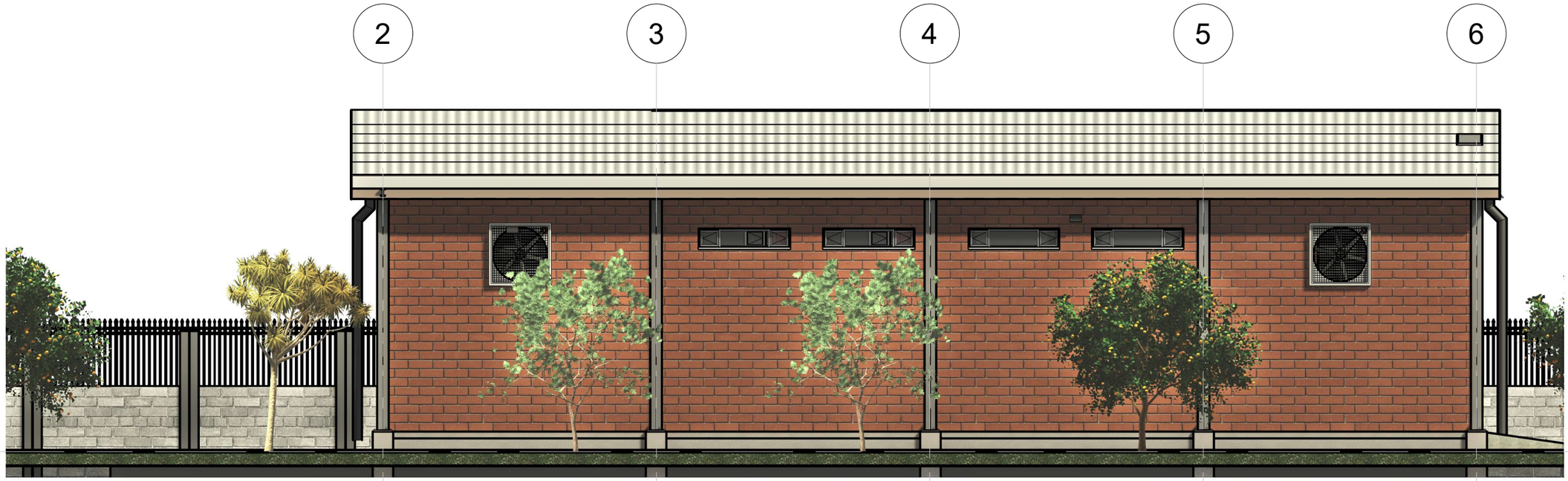
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NORTH ELEVATION

Project number	CDEL/KT/APP-01
Date	October, 2026
Drawn by	A. A Kantoma
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RIGHT ELEVATION

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EFAB Estate No. 19, Londo Street
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Status	Review	Version
Discipline	Common	V1-A09

General Notes

All dimensions are in milimeters except specified.
All specifications to be used as provided.

No.	Description	Date

Beneficiaries:
Shinkafi Community, Katsina LGA, Katsina State

Project:
Proposed Agro-Processing Hub, Shinkafi, Katsina

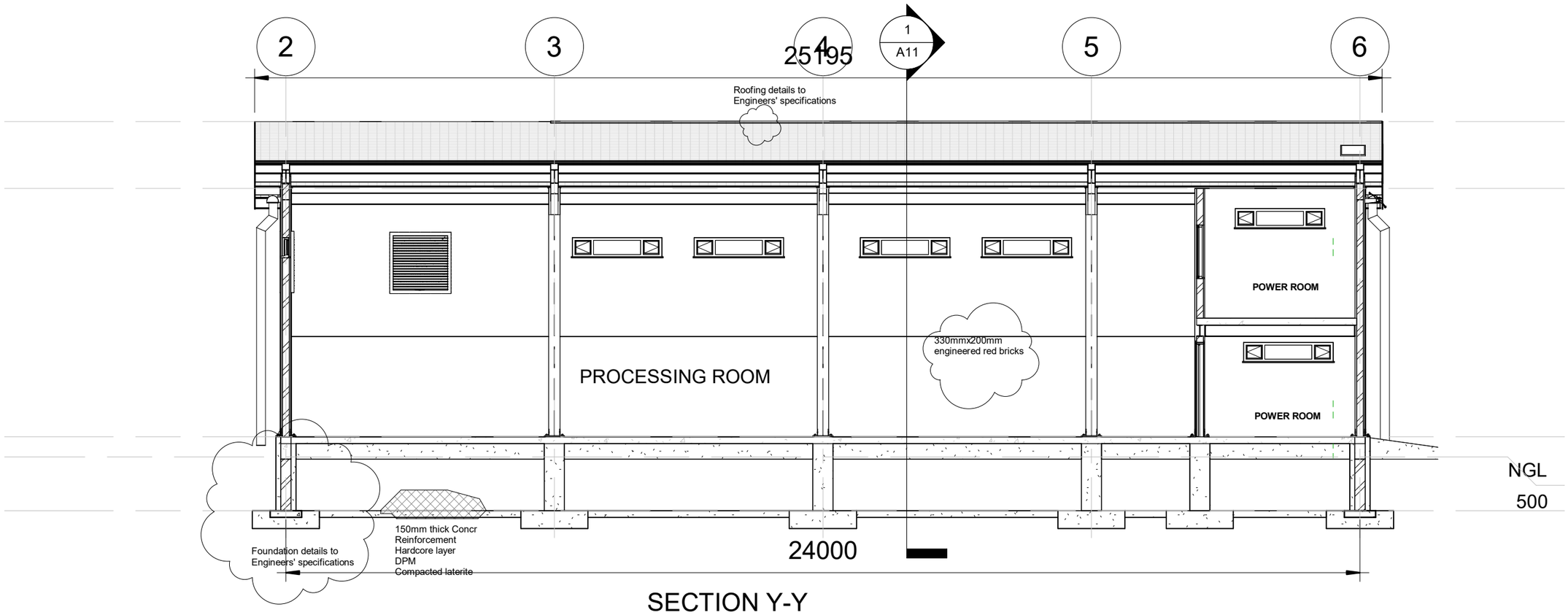
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Project number	CDEL/KT/APP-01
Date	October, 2026
Drawn by	A. A Kantoma
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A09

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SECTION Y-Y

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Status	Review	Version
Discipline	Common	V1-A10

General Notes

All dimensions are in milimeters except specified.
All specifications to be used as provided.

No.	Description	Date
1	Revision 1	Date 1

Beneficiaries:
Shinkafi Community, Katsina LGA, Katsina State

Project:
Proposed Agro-Processing Hub, Shinkafi, Katsina

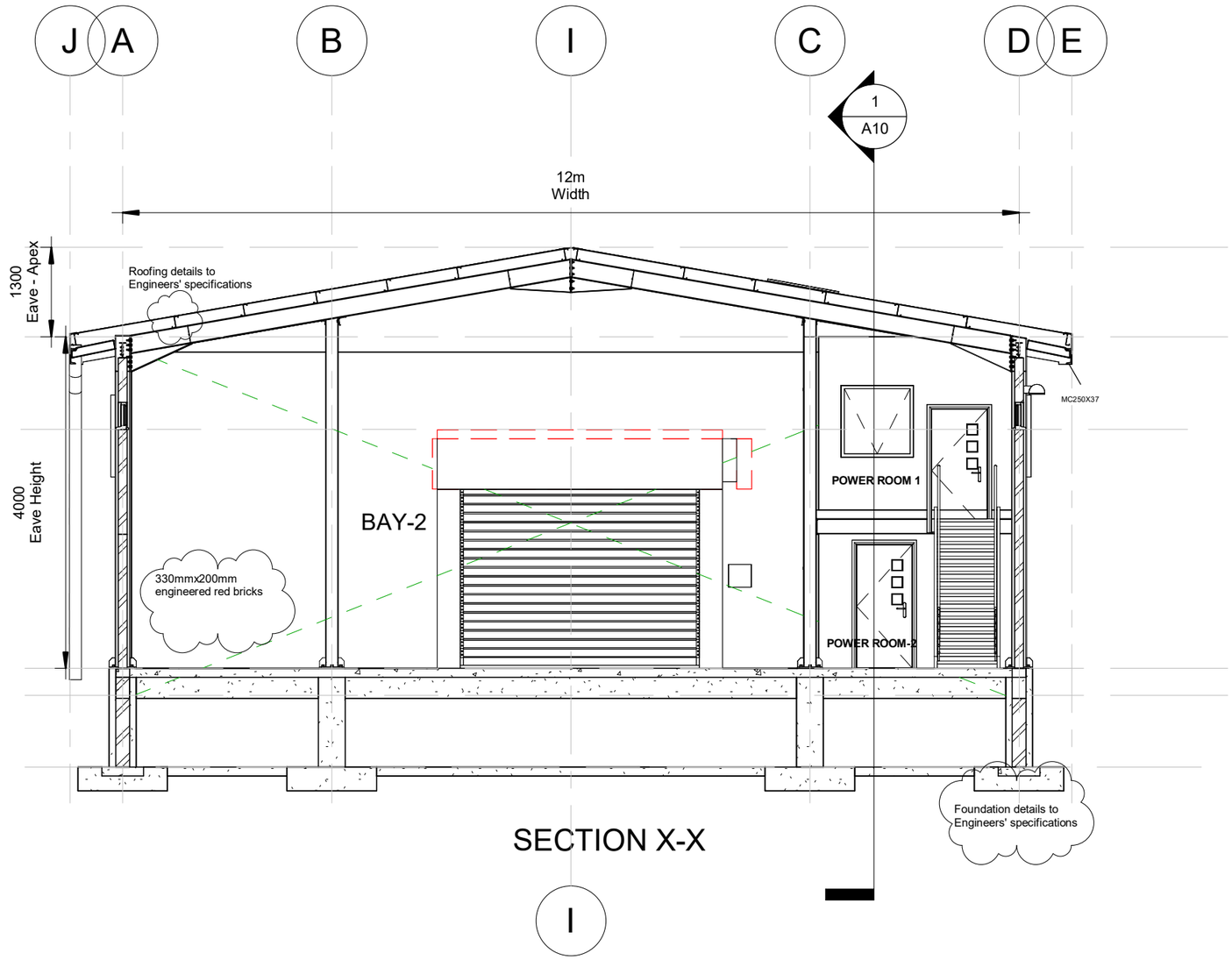
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Project number	CDEL/KT/APP-01
Date	October, 2026
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SECTION X-X

I

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EFAB Estate No. 19, Londo Street
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Status	Review	Version
Discipline	Common	V1-A11

General Notes

All dimensions are in milimeters except specified.
All specifications to be used as provided.

No.	Description	Date
1	Revision 1	Date 1

Beneficiaries:
Shinkafi Community, Katsina LGA, Katsina State

Project:
Proposed Agro-Processing Hub, Shinkafi, Katsina

Sheet ID SECTION X-X

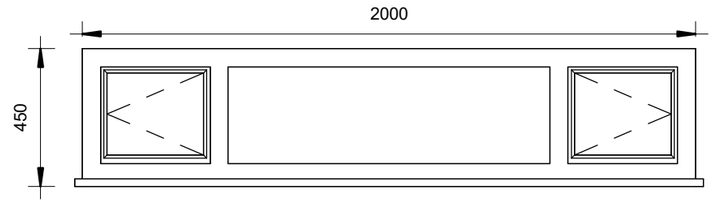
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Date	October, 2026
Drawn by	A. A Kantoma
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A11

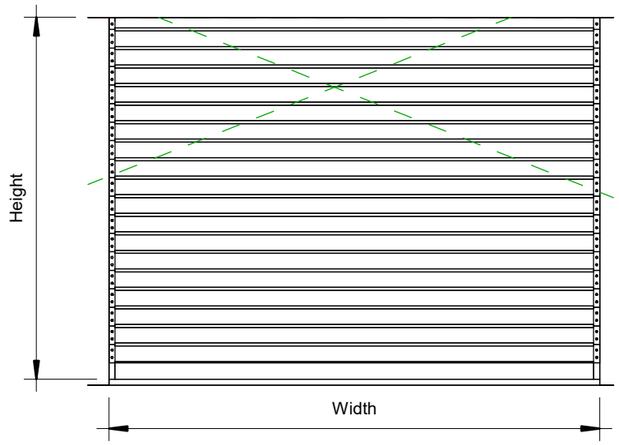
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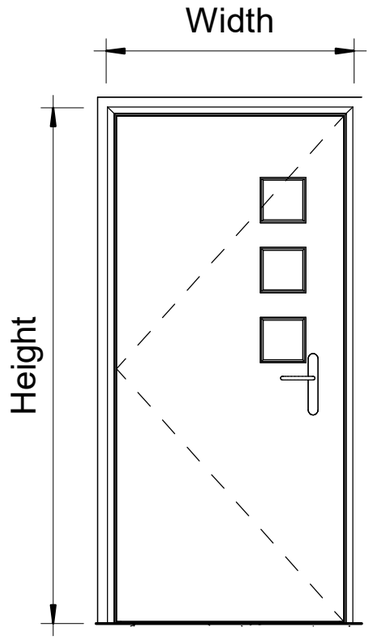
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Window Schedule					
Type	Height	Width	Count	Area	Total Area
1210 x 1200mm dp Bttm Hung	1.2	1.2	1	1.5 m²	1.5 m²
Industrial casement 450mmx2000mm	0.5	2.0	12	0.9 m²	10.8 m²



Door Schedule					
Family and Type	Height	Width	Count	Area	Total Area
IntSgl (4): 1010 x 2110mm	2110	1010	2	2.1 m²	4.3 m²
EFA-SST-L-Secure-306R04: 4000mmx3500m	3000	4000	1	12.0 m²	12.0 m²





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Status	Review	Version
Discipline	Common	V1-A12

General Notes

All dimensions are in milimeters except specified.
All specifications to be used as provided.

No.	Description	Date

Beneficiaries:
Shinkafi Community, Katsina LGA, Katsina State

Project:
Proposed Agro-Processing Hub, Shinkafi, Katsina

Sheet ID A12 | **SCHEDULE**

Project number	CDEL/KT/APP-01
Date	October, 2026
Drawn by	A. A Kantoma
Checked by	Arc. Derick E.
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PROPOSED AGRO-PROCESSING HUB

STRUCTURAL

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GENERAL CONSTRUCTION NOTES

GENERAL

A1. ALL STRUCTURAL DRAWINGS AND SKETCHES MUST BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTS AND SERVICES ENGINEERS AND SPECIALIST DRAWINGS. WHERE DISCREPANCIES OCCUR, THESE ARE TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECTS AND/OR ENGINEERS FOR RESOLUTION PRIOR TO EFFECTING CONSTRUCTION.

A2. WORK TO FIGURED DIMENSIONS ONLY. ALL DIMENSIONS ARE TO BE CHECKED ON SITE.

A3. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.

A4. FOR DETAILS OF FLOOR SCREED AND FINISHES, WATERPROOFING E.T.C. AND CONCRETE FINISHES, SEE ARCHITECTS DETAILS.

A5. THE STRUCTURAL ENGINEER SHALL NOT BE HELD LIABLE/RESPONSIBLE FOR ANY DRAWINGS NOT SUPERVISED BY HIM.

REINFORCEMENT AND STEEL

B1. STEEL TO HAVE A MINIMUM YIELD STRESS OF BAR AS DESIGNATED:
Y = 410 N/mm^2
BARS DESIGNATED "Y" TO BE THE DEFORMED TYPE BARS.
ACCORDING TO BS 4449 AND BARS ARE IN MILLIMETER SIZE.
"Y" DENOTES DEFORMED HIGH BOND HOT-ROLLED HIGH YIELD STRESS REINFORCEMENT TO BS 4449 AND 4461.

B2. NOTATIONS USED AS FOLLOWS: 11 - Y10 - 09 - 150 c/c B, IMPLY
11 - NUMBER OF BARS
Y10 - TYPE AND DIAMETER OF BARS
09 - BAR MARK
150 C/C - SPACING OF BARS IN MILLIMETRES
B - LOCATION OF BAR E.G. B - BOTTOM, T - TOP.

B3. WHERE HOLES, FIXING, ETC. ARE REQUIRED, BARS MAY BE DISPLACED SLIGHTLY TO ACCOMODATE THESE BUT THEY MUST NOT BE CUT OR REMOVED.

B4. WHERE TOP REINFORCEMENTS ARE REQUIRED ON SLABS, AND THERE EXISTS NO SPECIFICATIONS ON THE SLAB DETAILS, THE FOLLOWING GUIDES SHALL BE FOLLOWED:
B4.1. FOR MAIN TOP BARS, USE DIA. 12mm BARS SPACED AT 150mm c/c
B4.2. FOR SECONDARY TOP BARS, USE DIA, 12mm BARS SPACED AT 200mm c/c

B5. STRUCTURAL STEEL MEMBERS AND CONNECTION SHALL COMPLY TO GRADE S355

ALL MEMBERS AND CONNECTIONS SHALLL BE INSPECTED AND APPROVED BEFORE ERECTION
FRAMES SHALL BE ALIGNED, LEVELD AND PLUMBED BEFORE FINAL TIGHTNING
NO FRAME SHALL BE LEFT UNSTABLE DURING OR AFTER CONSTRUCTION
STEEL SURFACES SHALL BE PREPARED, DOUBLE COATED AND FINAL WHITE OIL PAINT

DRAFT COPY SHALL BE REVIEWED BEFORE COMMENCEMENT OF ANY ACTIVITY ON SITE.

CONCRETE

D1. ALL STRUCTURAL CONCRETE TO BE GRADE .....25..... IN FOUNDATIONS.
ALL STRUCTURAL CONCRETE TO BE GRADE .....25..... IN COLUMNS.
ALL STRUCTURAL CONCRETE TO BE GRADE .....25..... IN ALL OTHER SUPERSTRUCTURAL ELEMENTS, UNLESS OTHERWISE STATED.

D2. MINIMUM CEMENT AGGREGATE RATIO TO BE 1:6. MAXIMUM SIZE OF COARSE AGGREGATE TO BE 20MM.

D3. ALL AGGREGATE TO BE SUITABLY GRADED AND APPROVED BY THE ENGINEER PRIOR TO USE IN CONSTRUCTION.

D4. ALL CONCRETE TO BE SUITABLY AND FULLY COMPACTED AND CURED IN AN APPROVED MANNER TO THE SATISFACTION OF THE ENGINEER.

D5. MINIMUM CONCRETE COVER TO MAIN REINFORCEMENT TO BE AS FOLLOWS:

FOUNDATION :	.....	50MM,	COLUMNS :	.....	25MM,
BEAMS :	.....	25MM,	SLABS :	.....	20MM,
STAIRCASES, ETC.....		20MM,	UNLESS OTHERWISE STATED.		

D6. ALL MASS CONCRETE TO BE 1 : 3 : 6 MIX (CEMENT - SAND - COARSE AGGREGATE)
ALL BLINDING TO BE 1 : 6 MIX (CEMENT- SAND AGGREGATE).

D7. IN WATER-TIGHT CONSTRUCTION, JOINTS IN CONCRETE WORK ARE TO HAVE WATER BAR AND CONTRACTOR IS TO TAKE SPECIAL CARE WITH THE CONCRETE SO AS TO PRODUCE A WATER-TIGHT CONSTRUCTION.
AN ADMIXTURE OF A PROPRIETARY BRAND MAY BE USED IF AGREED BY THE ENGINEER. HOWEVER, IF USED ADEQUATE CARE SHOULD BE EXERCISED THAT IT IS PLACED STRICTLY IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS.

D8. ALL CONSTRUCTION JOINT POSITIONS ARE TO BE APPROVED BY THE ENGINEER PRIOR TO CASTING WHERE NOT INDICATED ON THE DRAWING. THESE SHOULD NOT EXCEED 10.0m APART.

D9. CONCRETE SHALL NOT BE POURED THROUGH REINFORCING STEEL SO AS TO CAUSE SEGREGATION OF AGGREGATES. HOPPERS, VERTICAL CHUTES OR TRUNKS SHALL BE USED IN SUFFICIENT NUMBERS SO THAT THE FREE UNCONFINED FALL OF CONCRETE SHALL NOT EXCEED 1800mm & TO ENSURE THAT THE CONCRETE IS KEPT LEVEL AT ALL TIMES.

D10. BEFORE FRESH CONCRETE IS POURED AGAINST CONCRETE IN-PLACE, THE CONTACT SURFACES OF CONCRETE IN-PLACE SHALL BE THOROUGHLY CLEANED, ALL LAITANCE SHALL BE REMOVED & THE CONTACT SURFACES SHALL BE THOROUGHLY SLOSHED WITH GROUT CONSISTING OF ONE PART SAND TO ONE PART CEMENT WITH A MINIMUM AMOUNT OF WATER.

D11. CONCRETE CAST ON SLOPED SURFACES SHALL BEGIN AT THE LOWEST ELEVATION & CONTINUE MONOLITHICALLY TOWARD THE HIGHER ELEVATION UNTIL THE INTENDED POUR IS COMPLETED.

FOUNDATION

H1. CONFIRMATORY GEOTECHNICAL INVESTIGATION SHALL BE CARRIED OUT PRIOR TO CONSTRUCTION, NOTE THE DESIGNED FOUNDATION IS GENERIC HENCE SHALL BE REVIEWED.

H3. SITE PREPARATION AND TREATMENT TO BE CONFIRMED ON SITE AND APPROVED BY SUPERVISING ENGINEER AT COMMENCEMENT OF FOUNDATION CONSTRUCTION.

H4. RELATIONSHIP OF THE GROUND FLOOR SLAB, EXISTING GROUND LEVEL AND THE FOUNDATION FORMATION LEVEL ARE TO BE CONFIRMED ON SITE AND APPROVED PRIOR TO CONSTRUCTION OF THE FOUNDATION.

BLOCKWORK

E1. CAVITIES OF HOLLOW BLOCKWALLS BELOW GROUND SLAB LEVEL ARE TO BE FILLED WITH MASS CONCRETE. BACKFILLING TO EXCAVATED TRENCHES ARE TO BE CARRIED OUT SIMULTANEOUSLY ON BOTH SIDES OF WALL.

E2. THE WALL THICKNESS OF THE BLOCKS SHOULD NOT BE MORE THAN 25mm.

E3. THE MINIMUM CRUSHING STRENGTH OF THE NON-LOAD BEARING HOLLOW SANDCRETE BLOCKS IS TO BE 2.1 N/mm2 OF THE GROSS AREA OF BLOCK AT 28 DAYS.

E4. BLOCKWORK TIES BETWEEN BLOCKWALLS AND COLUMNS/STANCHIONS ARE TO BE PROVIDED AT EVERY COURSE. TIES TO BE 6mm BAR STRAPS 700mm LONG INTO THE BLOCKWORK.

E5. MAXIMUM POUR HEIGHT FOR ALL FILLED BLOCKWORK TO BE 2 COURSES AT A TIME.

E6. ALL LOAD-BEARING SANDCRETE HOLLOW BLOCKWALLS TO HAVE A MINIMUM STRENGTH OF 2.76 N/MM2 OF NETT AREA OF BLOCKWALL AT 28 DAYS.

E7. BLOCKWORK INDICATED THUS ▨ ON THESE DRAWINGS ARE LOAD BEARING AND ARE TO BE CONCRETE FILLED TO THE SPECIFIED OR SHOWN LEVEL(S) WITH CONCRETE AS IN D1 WITH 10MM MAXIMUM COARSE AGGREGATE SIZE.

E8. BLOCKWORK INDICATED THUS ▨ ON DRAWINGS ARE LOAD BEARING, CONCRETE FILLED AS IN D1 WITH 10MM MAX. COARSE AGGREGATE SIZE, AND WITH CAVITIES REINFORCED AS SPECIFIED.

E9. CONCRETE FILLED LOAD-BEARING BLOCKWORKS ARE TO ACHIEVE A MINIMUM CRUSHING STRENGTH OF 6.5 N/MM2.

EARTHWORK

G1. CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR SHORING AND BRACING OF THE BUILDING EXCAVATIONS & EMBANKMENTS, INCLUDING EXCAVATION FOR UTILITIES, AND IS ALSO FULLY RESPONSIBLE FOR THE DESIGN & PERFORMANCE OF SHORING AND BRACING DURING CONSTRUCTION.

G2. CONTRACTOR SHALL COORDINATE THE EXTENT OF THE EXCAVATION, SHORING AND BRACING WITH CIVIL DRAWINGS. CONTRACTOR SHALL ALSO REFER TO CIVIL DRAWINGS, SPECIFICATIONS & GEOTECHNICAL REPORT FOR DEWATERING AND RELATED INFORMATION NOT COVERED IN THE STRUCTURAL DRAWINGS.

G3. EARTHWORK COMPACTION SHALL BE IN ACCORDANCE WITH CIVIL DRAWINGS AND SPECIFICATIONS AS WELL AS WITH THE GEOTECHNICAL REPORT.

SITE PREPARATION

J1. REMOVE ALL EXISTING TOPSOIL UNDER SLABS, PROVIDE 150mm WELL RAMMED

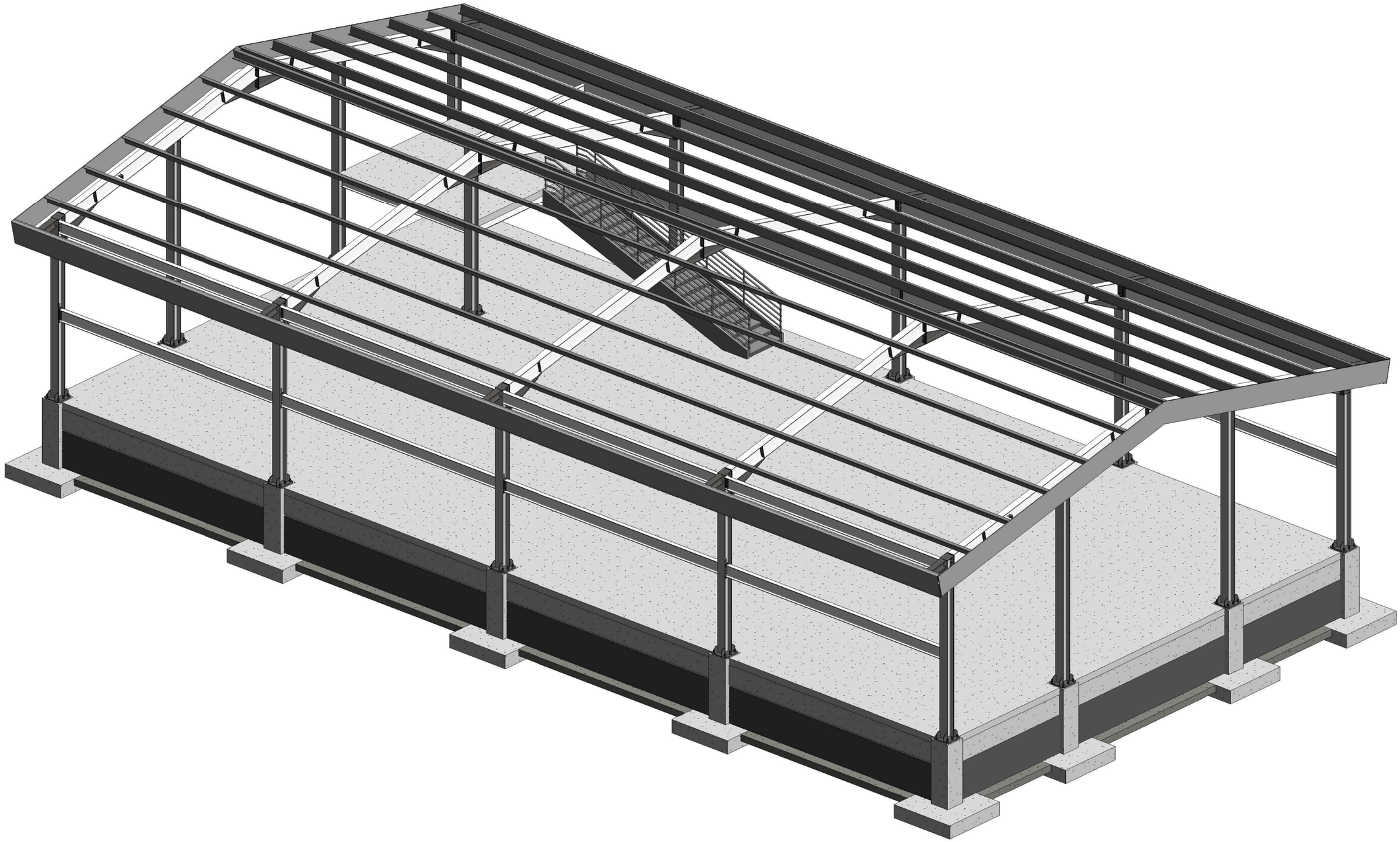
J2. WHERE BAD GROUND IS ENCOUNTERED BELOW FOUNDATION LEVEL, THE DIFFERENCE IN LEVEL BETWEEN APPROVED BEARING STRATUM AND ORIGINAL LEVEL IS TO BE MADE UP USING MASS CONCRETE TO THE APPROVAL OF THE SUPERVISING ENGINEER.

For Tender

DRAWING LIST

1.	STR 3D	A00
2.	FOUNATION G.A	A02B
3.	G.A	A03
4.	ROOF G.A	A04
5.	ELEVATION-1	A05
6.	ELEVATION-2	A06
7.	SECTION Y-Y	A07
8.	SECTION X-X	A08
9.	BASE DETAILS	A09
10.	BEAMS	A10
11.	COLUMNS	A11
12.	CONNECTIONS	A12

For Tender



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Katsina State Development and Management Board

COOPI
COOPERAZIONE INTERNAZIONALE

COOPI-Cooperazionale Internazionale
EFAB Estate No. 19, Londo Street
Karsana, Gwarimpa, Abuja

Status	Review	Version
Discipline	Common	V1-S00

General Notes

All dimensions are in milimeters except specified.
All specifications to be used as provided.

No.	Description	Date

Beneficiaries:
Shinkafi Community, Katsina LGA, Katsina State

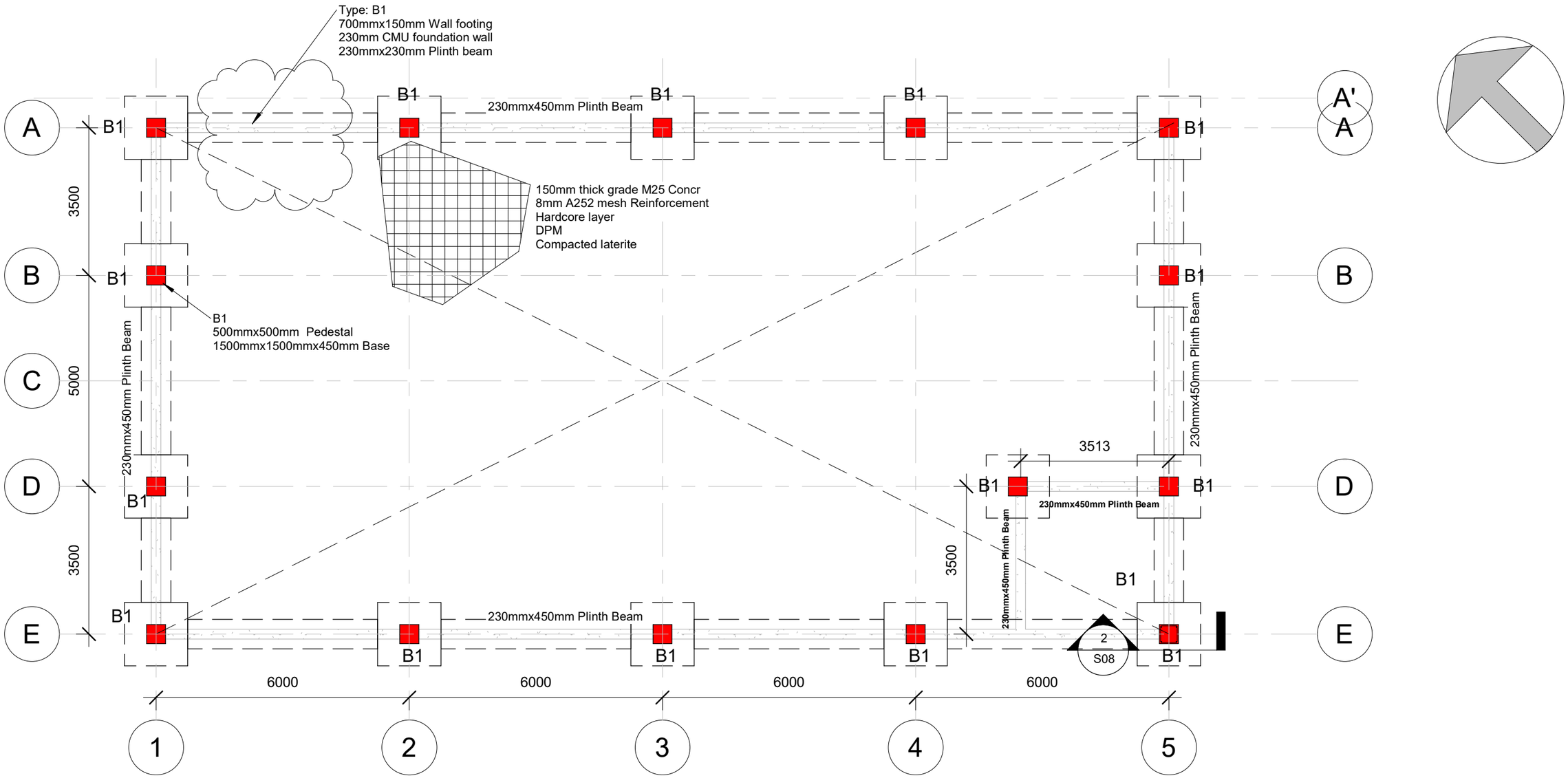
Project:
Proposed Agro-Processing Hub, Shinkafi, Katsina

Sheet ID 3D-1

Project number	CDEL/KT/APP-01
Date	October, 2026
Drawn by	A. A Kantoma
Checked by	Prof. Jamil Usman
Scale	S00

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EFAB Estate No. 19, Londo Street
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Status	Review	Version
Discipline	Common	V1-S01

General Notes

All dimensions are in milimeters except specified.
All specifications to be used as provided.

No.	Description	Date
1	Revision 1	Date 1

Beneficiaries:
Shinkafi Community, Katsina LGA, Katsina State

Project:
Proposed Agro-Processing Hub, Shinkafi, Katsina

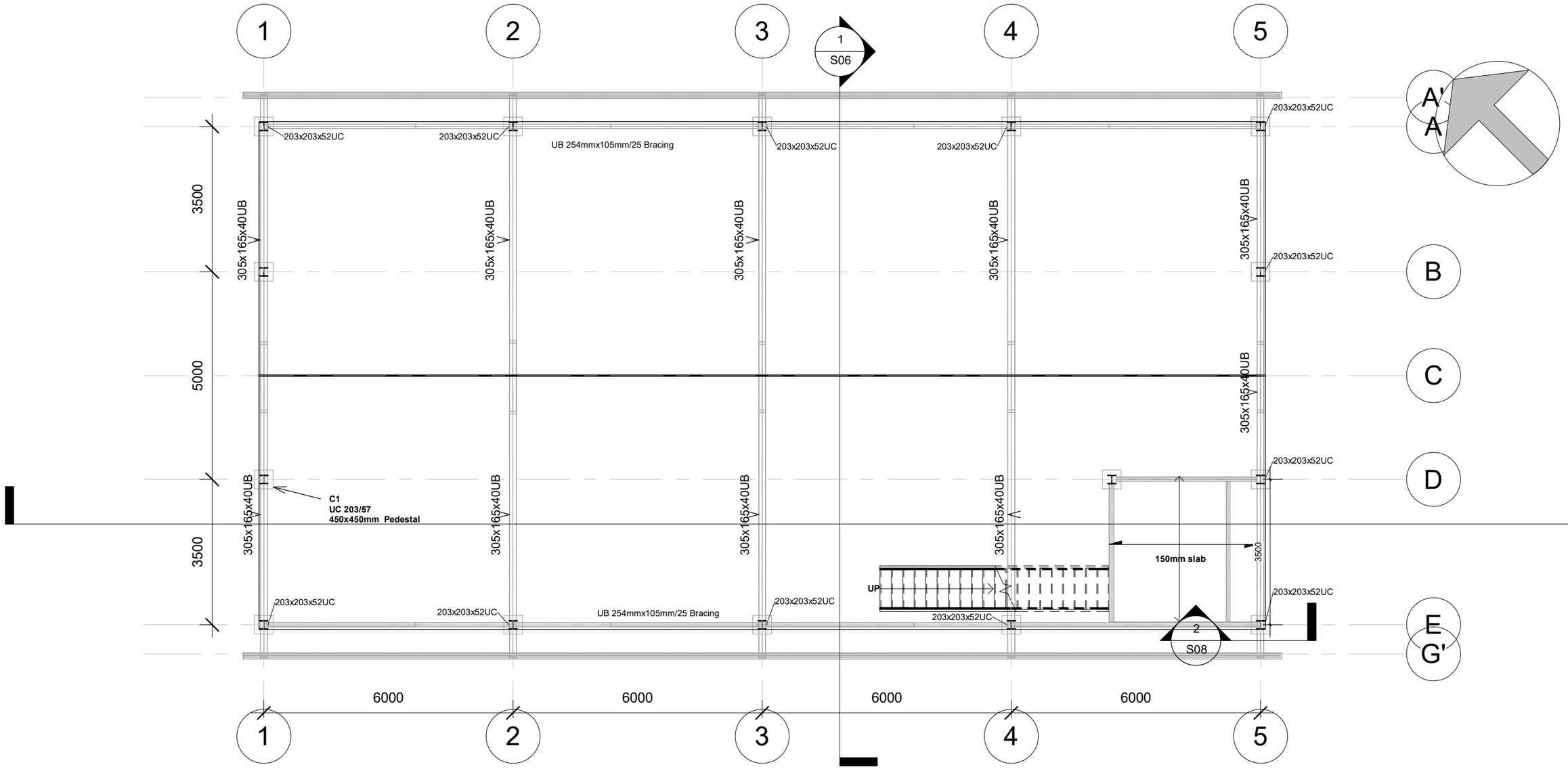
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Project number	CDEL/KT/APP-01
Date	October, 2026
Drawn by	A. A Kantoma
Checked by	Prof. Jamil Usman
Scale	1 : 100

S01

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STRUCTURAL GENERAL ARRANGMENT

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Karsana, Gwarimpa, Abuja

Status	Review	Version
Discipline	Common	V1-S02

General Notes

All dimensions are in milimeters except specified.
All specifications to be used as provided.

No.	Description	Date

Beneficiaries:
Shinkafi Community, Katsina LGA, Katsina State

Project:
Proposed Agro-Processing Hub, Shinkafi, Katsina

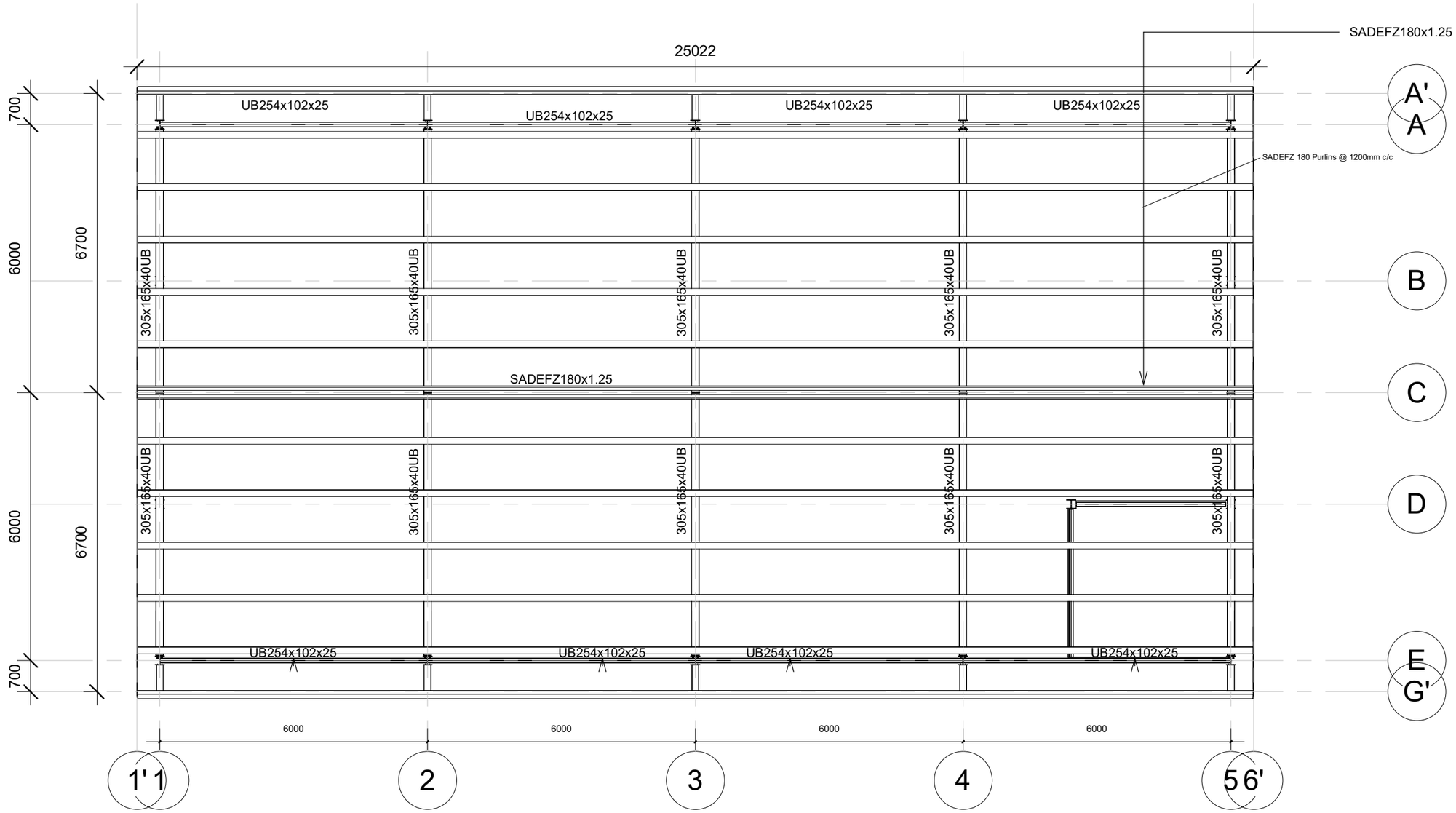
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Project number	CDEL/KT/APP-01
Date	October, 2026
Drawn by	A. A Kantoma
Checked by	Prof. Jamil Usman
Scale	1 : 100

S02

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STRUCTURAL GENERAL ARRANGMENT ROOF

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Status	Review	Version
Discipline	Common	V1-S03

General Notes

All dimensions are in milimeters except specified.
All specifications to be used as provided.

No.	Description	Date

Beneficiaries:
Shinkafi Community, Katsina LGA, Katsina State

Project:
Proposed Agro-Processing Hub, Shinkafi, Katsina

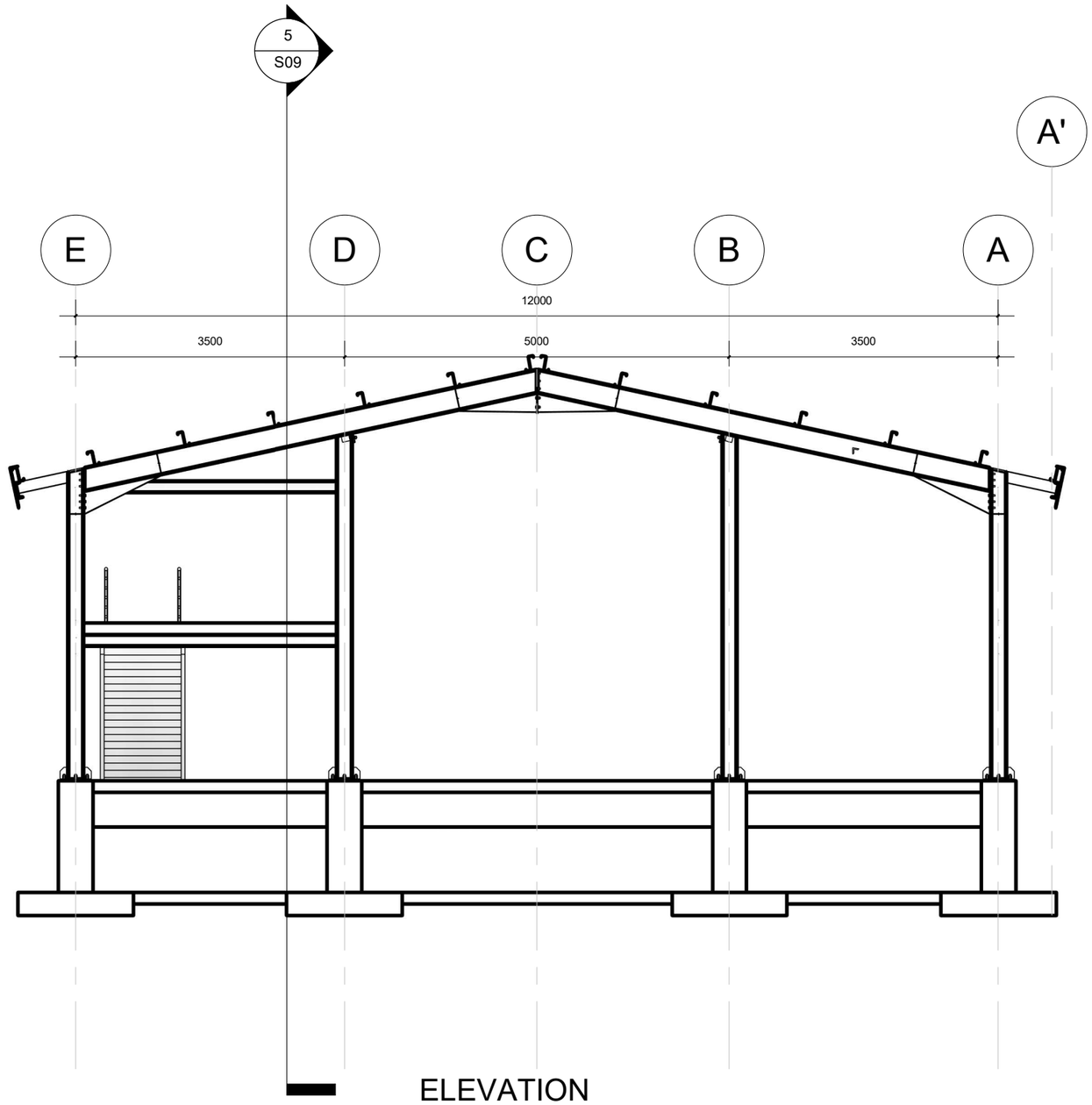
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Project number	CDEL/KT/APP-01
Date	October, 2026
Drawn by	A. A Kantoma
Checked by	Prof. Jamil Usman
Scale	1 : 100

S03

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ELEVATION

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Status	Review	Version
Discipline	Common	V1-S04

General Notes

All dimensions are in millimeters except specified.
All specifications to be used as provided.

No.	Description	Date

Beneficiaries:
Shinkafi Community, Katsina LGA, Katsina State

Project:
Proposed Agro-Processing Hub, Shinkafi, Katsina

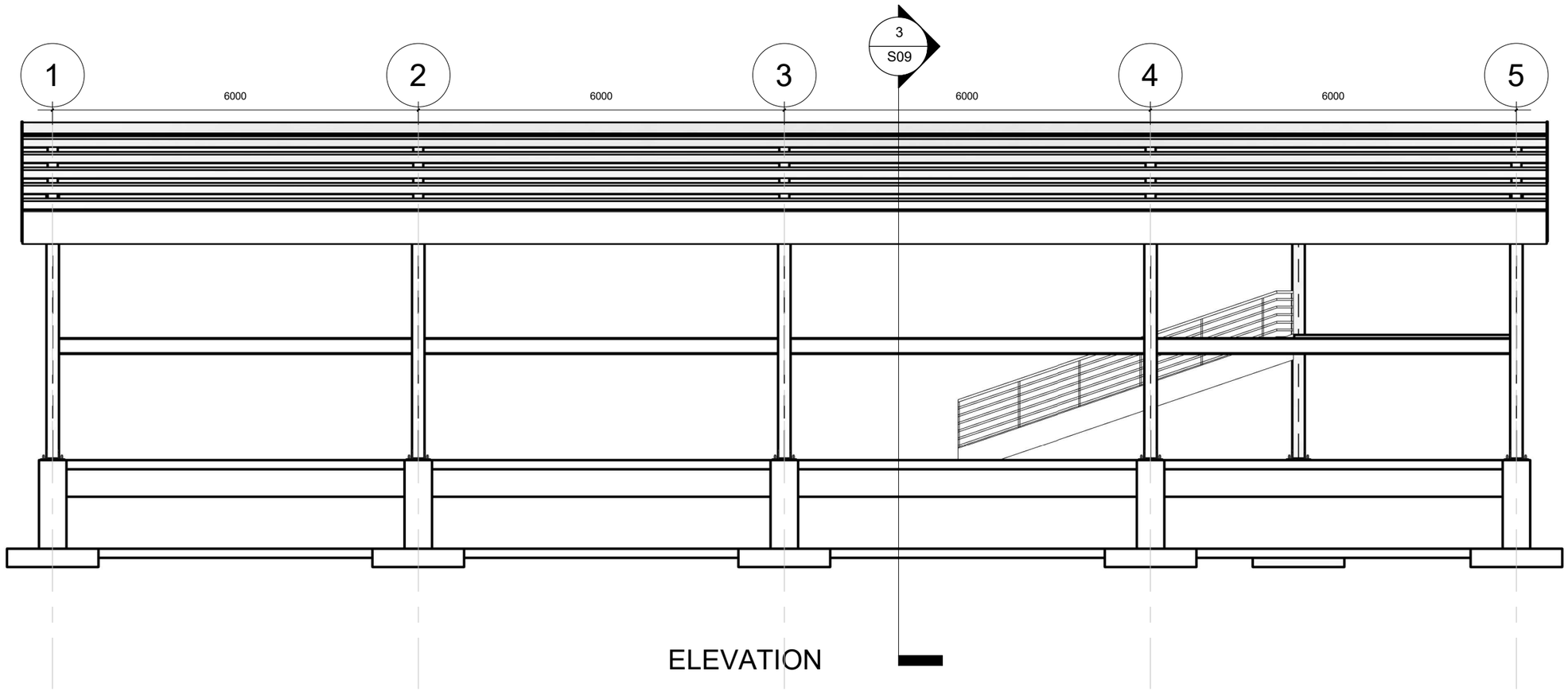
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Project number	CDEL/KT/APP-01
Date	October, 2026
Drawn by	A. A Kantoma
Checked by	Prof. Jamil Usman
Scale	1 : 70

S04

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ELEVATION

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Status	Review	Version
Discipline	Common	V1-S05

General Notes

All dimensions are in milimeters except specified.
All specifications to be used as provided.

No.	Description	Date

Beneficiaries:
Shinkafi Community, Katsina LGA, Katsina State

Project:
Proposed Agro-Processing Hub, Shinkafi, Katsina

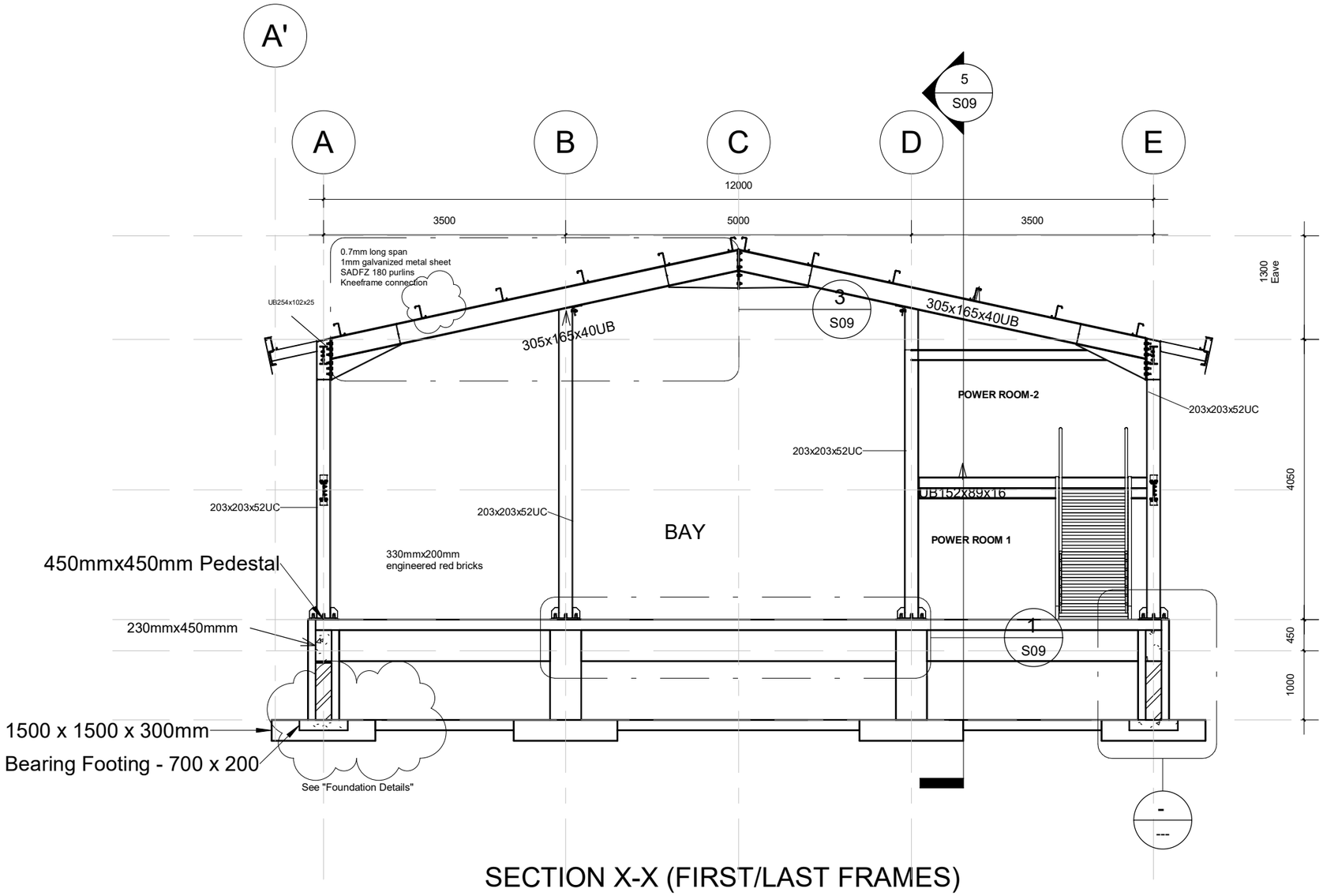
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Project number	CDEL/KT/APP-01
Date	October, 2026
Drawn by	A. A Kantoma
Checked by	Prof. Jamil Usman
Scale	1 : 80

S05

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SECTION X-X (FIRST/LAST FRAMES)

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Status	Review	Version
Discipline	Common	V1-S06

General Notes

All dimensions are in milimeters except specified.
All specifications to be used as provided.

No.	Description	Date
1	Revision 1	Date 1

Beneficiaries:
Shinkafi Community, Katsina LGA, Katsina State

Project:
Proposed Agro-Processing Hub, Shinkafi, Katsina

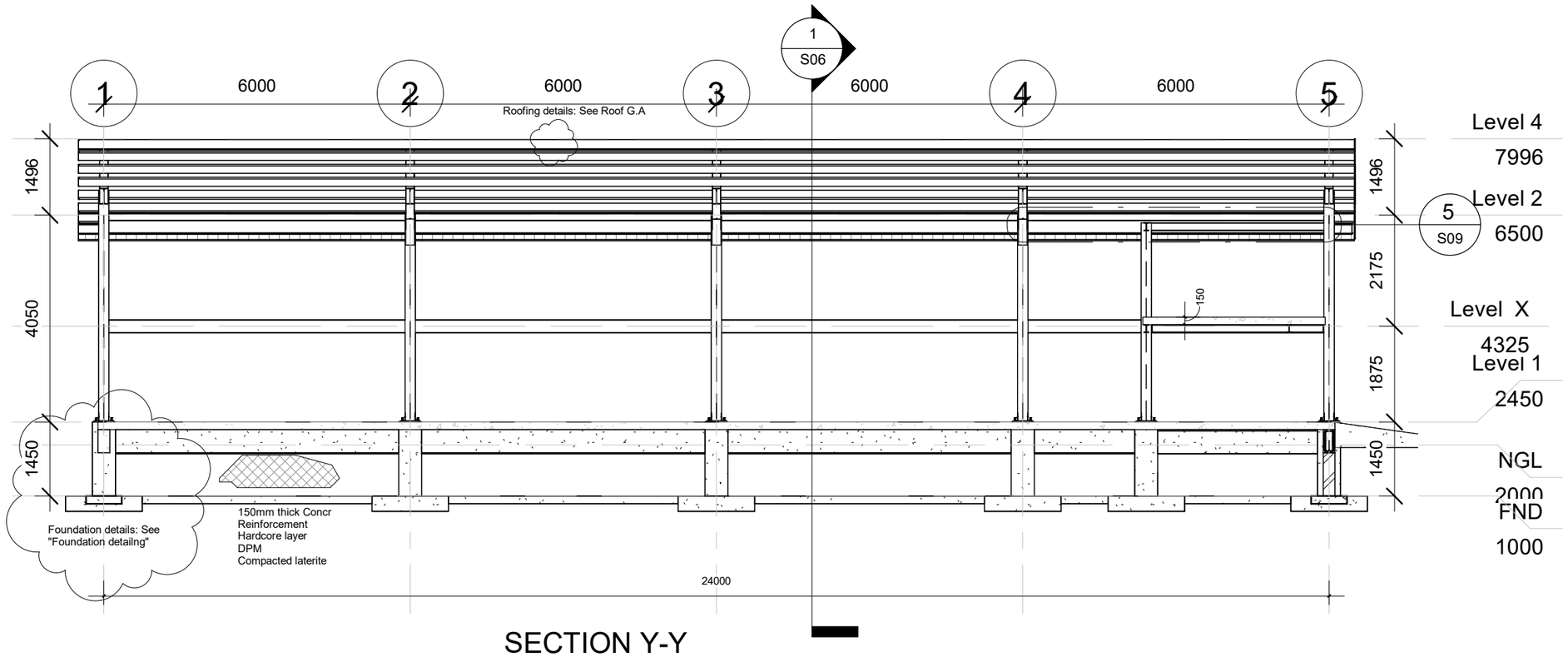
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Project number	CDEL/KT/APP-01
Date	October, 2026
Drawn by	A. A Kantoma
Checked by	Prof. Jamil Usman
Scale	1 : 70

S06

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SECTION Y-Y

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Status	Review	Version
Discipline	Common	V1-S07

General Notes

All dimensions are in milimeters except specified.
All specifications to be used as provided.

No.	Description	Date
1	Revision 1	Date 1

Beneficiaries:
Shinkafi Community, Katsina LGA, Katsina State

Project:
Proposed Agro-Processing Hub, Shinkafi, Katsina

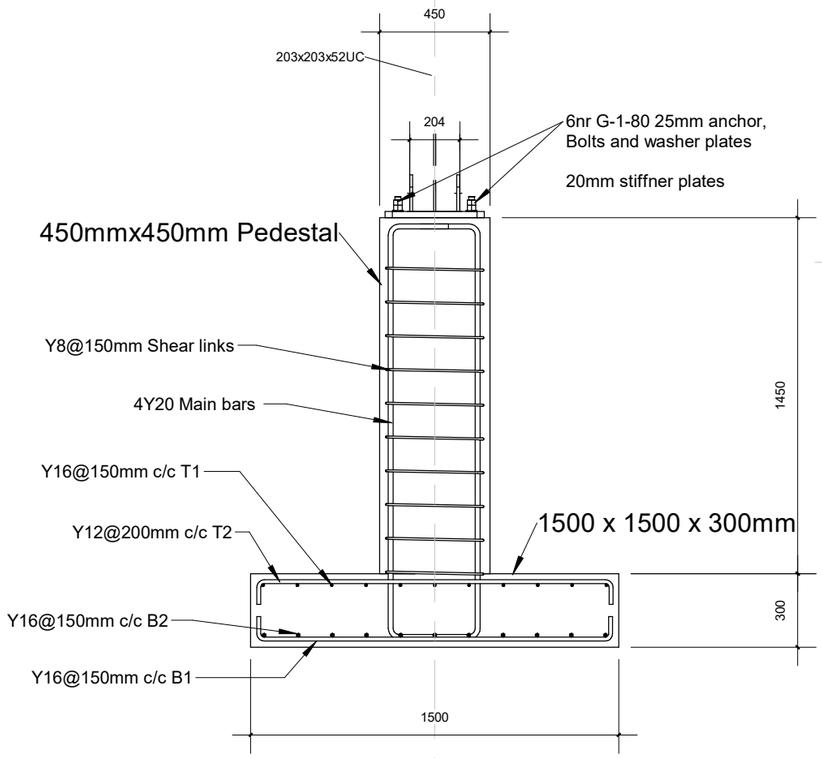
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Project number	CDEL/KT/APP-01
Date	October, 2026
Drawn by	A. A Kantoma
Checked by	Prof. Jamil Usman
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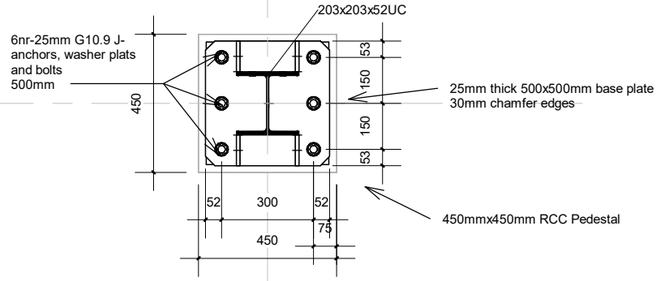
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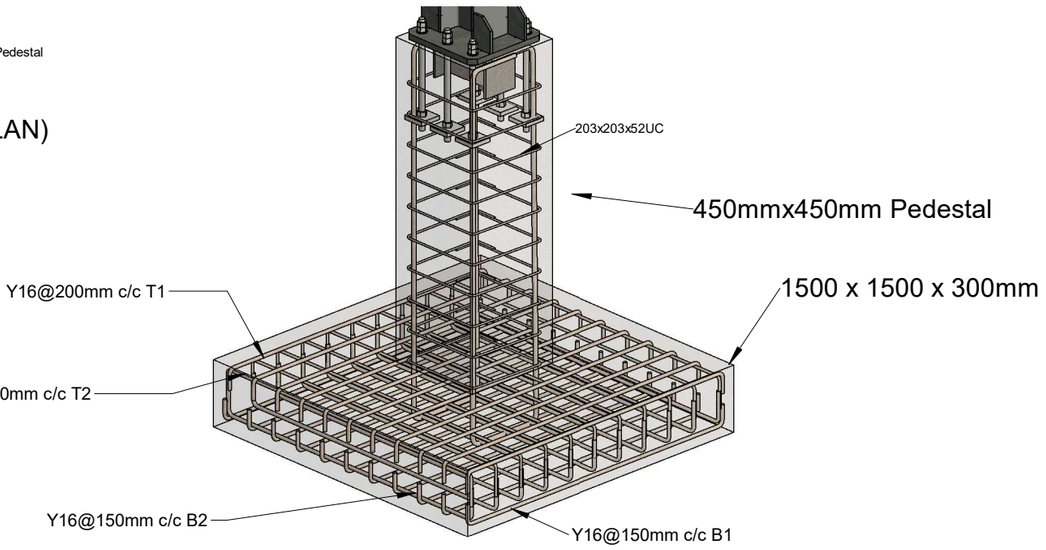
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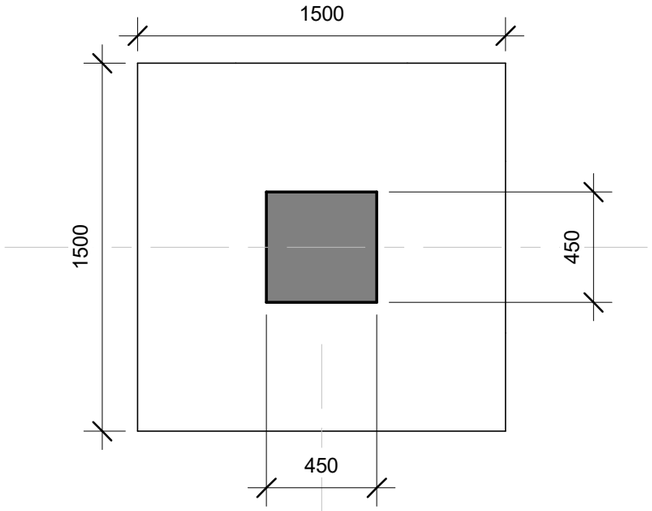
REINFORCEMENT DETAILING



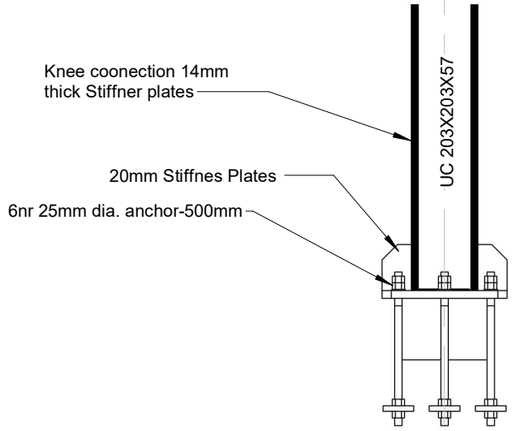
BASE PLATE AND PEDESTAL DETAILING (PLAN)



FOUNDATION



PLAN



COLUMN BASE-PEDESTAL CONNECTION

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Status	Review	Version
Discipline	Common	V1-S08

General Notes

All dimensions are in milimeters except specified.
All specifications to be used as provided.

No.	Description	Date

Beneficiaries:
Shinkafi Community, Katsina LGA, Katsina State

Project:
Proposed Agro-Processing Hub, Shinkafi, Katsina

Sheet ID S08

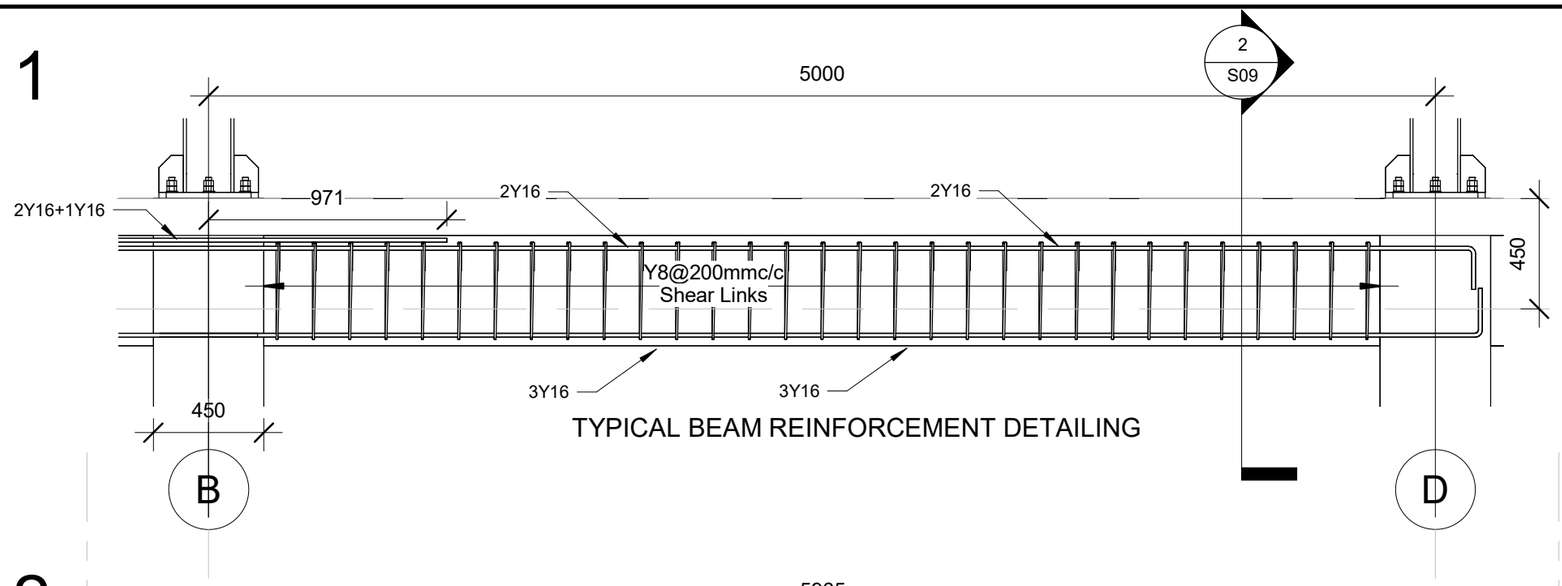
BASE DETAILS

Project number	CDEL/KT/APP-01
Date	October, 2026
Drawn by	A. A Kantoma
Checked by	Prof. Jamil Usman
Scale	As indicated

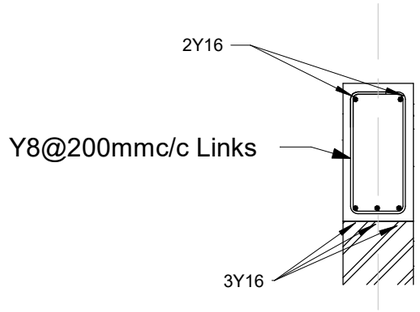
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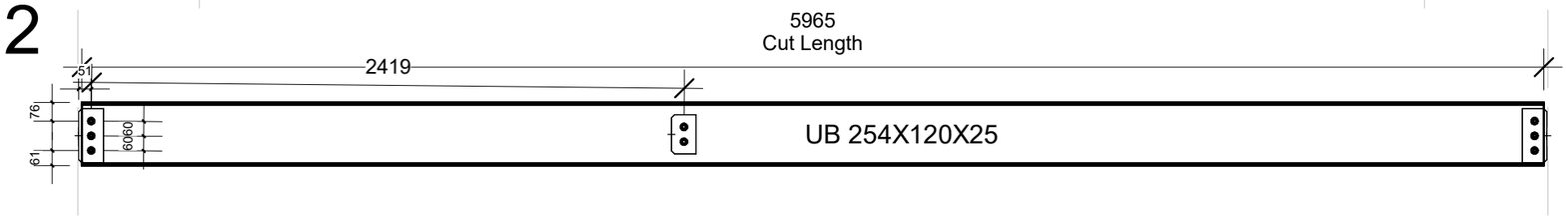


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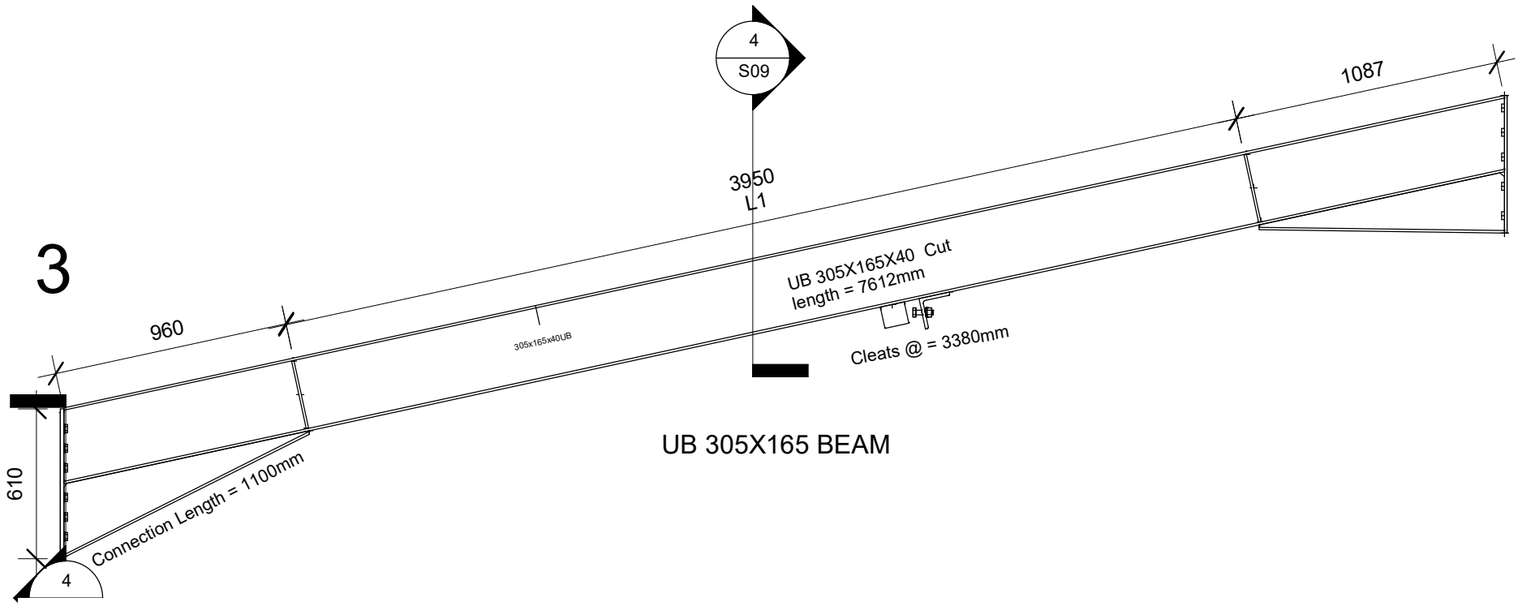
RCC BEAM CROSS SECTION 2/A07

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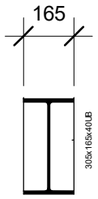


UB 254X120X25 BEAM

3



UB 305X165 BEAM



UB 305 CROSS SECTION 4/A07

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Status	Review	Version
Discipline	Common	V1-S09

General Notes

All dimensions are in milimeters except specified.
All specifications to be used as provided.

No.	Description	Date

Beneficiaries:
Shinkafi Community, Katsina LGA, Katsina State

Project:
Proposed Agro-Processing Hub, Shinkafi, Katsina

Sheet ID BEAMS

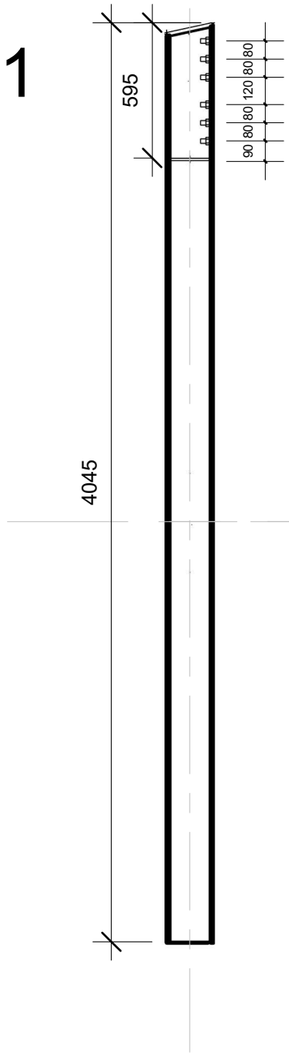
Project number	CDEL/KT/APP-01
Date	October, 2026
Drawn by	A. A Kantoma
Checked by	Prof. Jamil Usman
Scale	As indicated

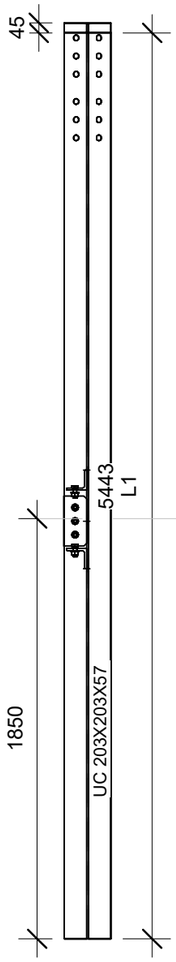
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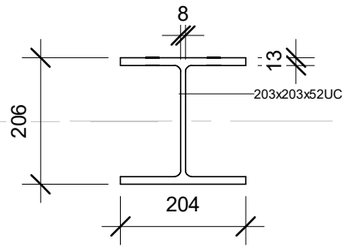
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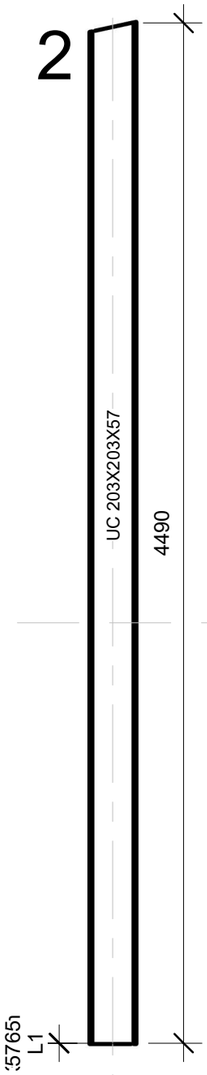
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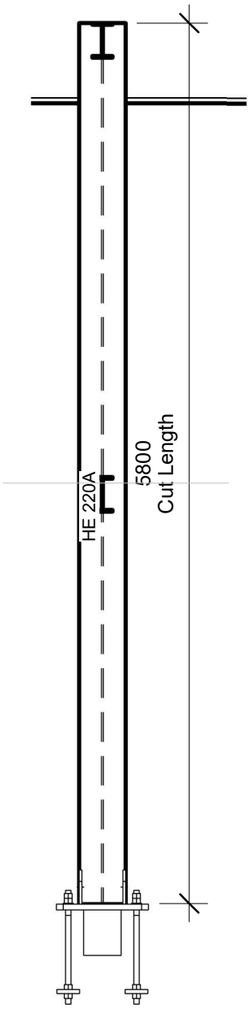


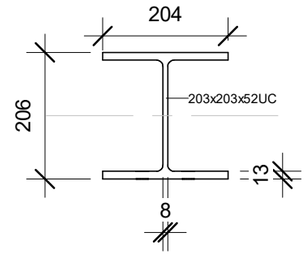




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EFAB Estate No. 19, Londo Street
Karsana, Gwarimpa, Abuja

Status	Review	Version
Discipline	Common	V1-S10

General Notes

All dimensions are in milimeters except specified.
All specifications to be used as provided.

No.	Description	Date

Beneficiaries:
Shinkafi Community, Katsina LGA, Katsina State

Project:
Proposed Agro-Processing Hub, Shinkafi, Katsina

Sheet ID | **COLUMN DETAILS**

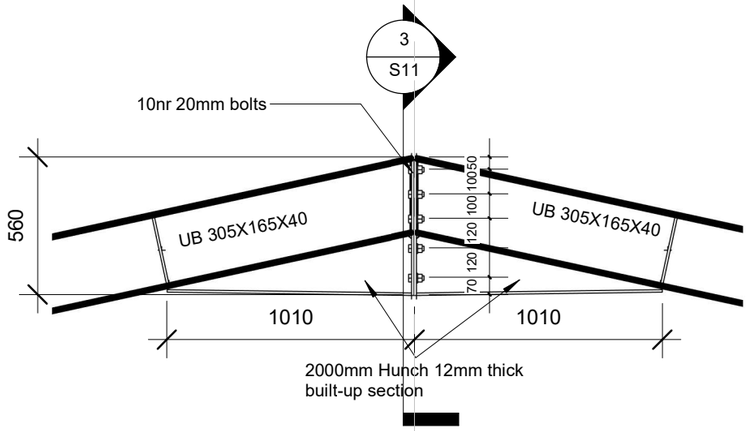
Project number	CDEL/KT/APP-01
Date	October, 2026
Drawn by	A. A Kantoma
Checked by	Prof. Jamil Usman
Scale	As indicated

S10

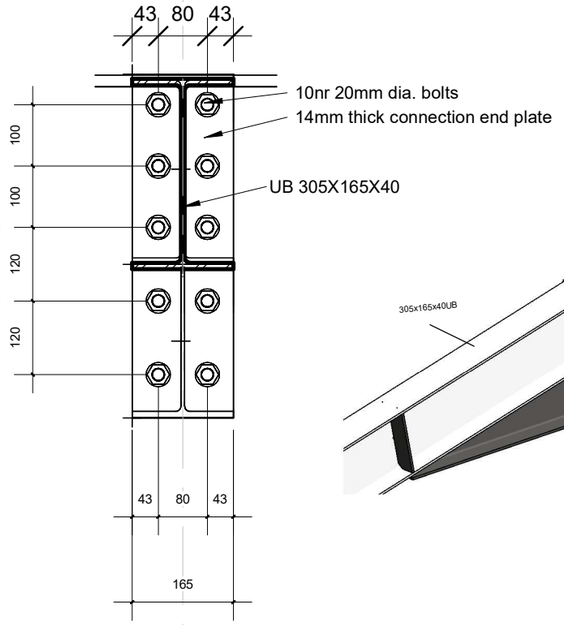
For Tender

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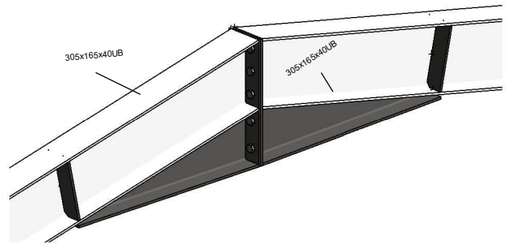
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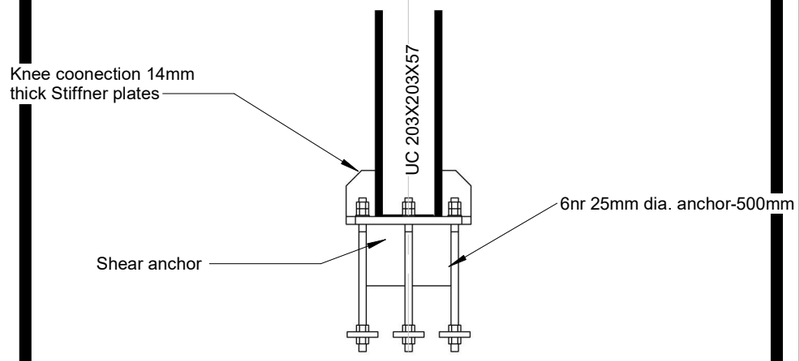
BEAM-BEAM (RAFTER) CONNECTION



BEAM-BEAM (RAFTER) CONNECTION
END VIEW 3/A02-B

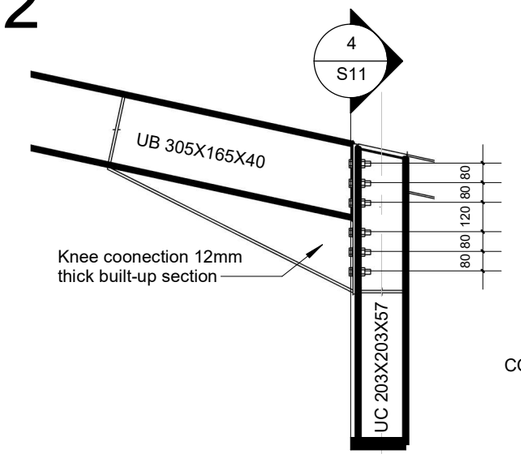


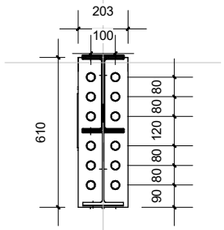
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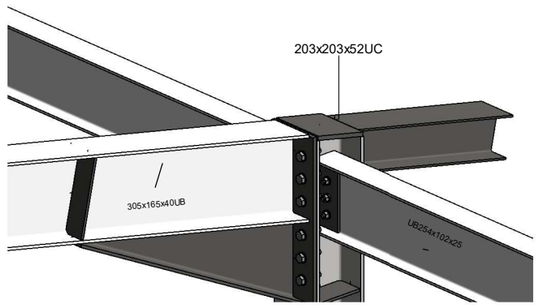
COLUMN BASE-PEDESTAL CONNECTION

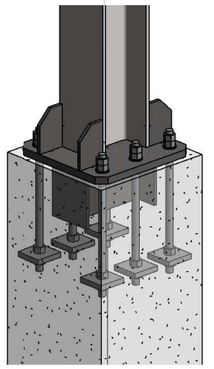
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COLUMN-BEAM CONNECTION END VIEW 4/S11





COLUMN-BEAM (KNEE FRAME) CONNECTION

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KTDMB
Katsina State Development and Management Board

COOPI-Cooperazionale Internazionale
EFAB Estate No. 19, Londo Street
Karsana, Gwarimpa, Abuja

Status	Review	Version
Discipline	Common	V1-S11

General Notes

All dimensions are in milimeters except specified.
All specifications to be used as provided.

No.	Description	Date

Beneficiaries:
Shinkafi Community, Katsina LGA, Katsina State

Project:
Proposed Agro-Processing Hub, Shinkafi, Katsina

Sheet ID CONNECTIONS

Project number	CDEL/KT/APP-01
Date	October, 2026
Drawn by	A. A Kantoma
Checked by	
Scale	As indicated

S11

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PROPOSED AGRO-PROCESSING HUB

M & E







For Tender

GENERAL NOTES

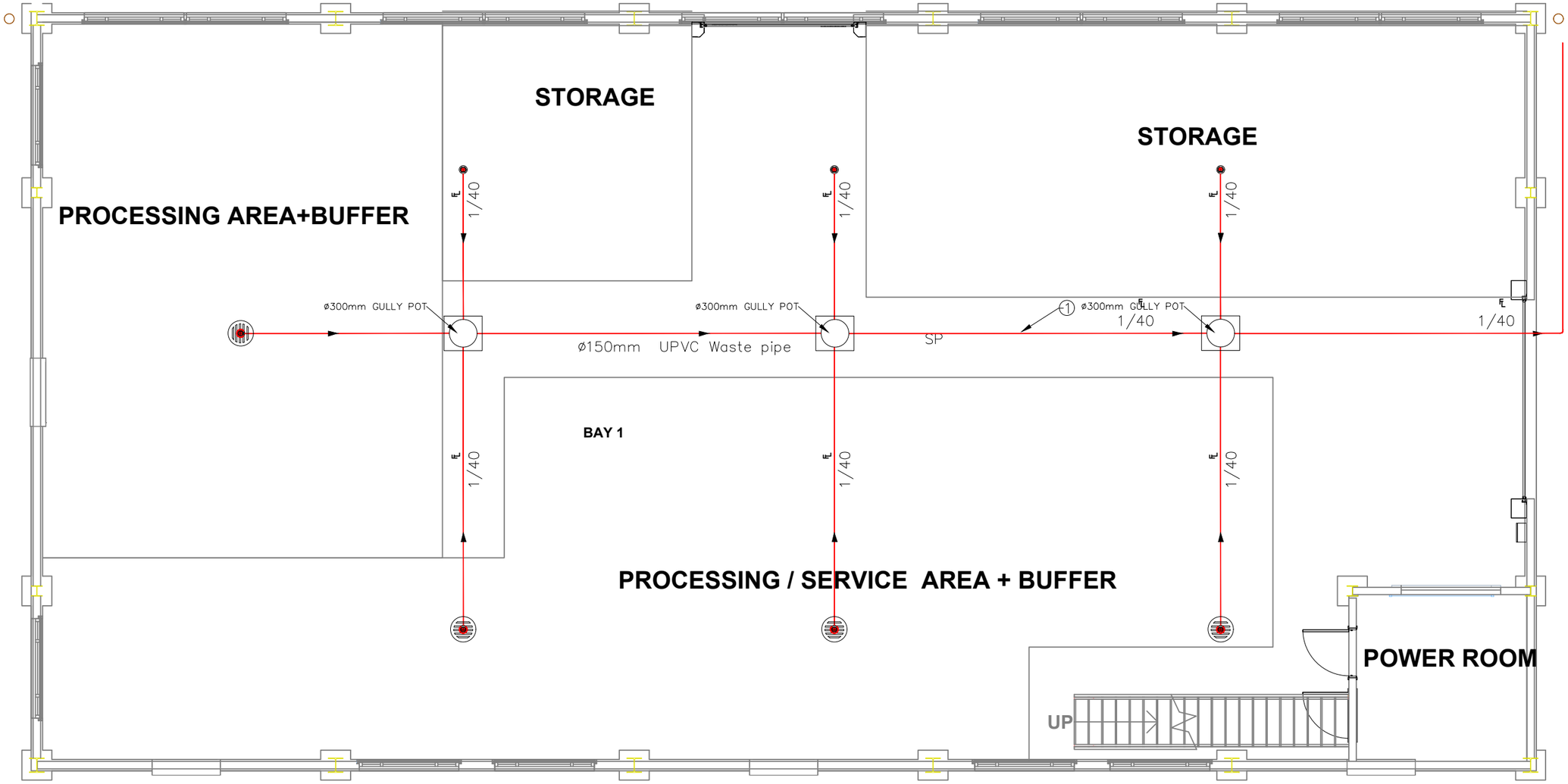
1. ALL DRAWINGS TO BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL AND STRUCTURAL DRAWINGS
2. DRAWINGS AND ANY DISCREPANCIES SHALL BE BROUGHT TO THE NOTICE OF THE ARCHITECT/ENGINEER AT ONCE.
3. ALL WORKS SHALL BE PERFORMED BY A PLUMBER UNDER THE SUPERVISION OF THE SITE ENGINEER AND/OR PRINCIPAL ARCHITECT
4. MAINTAIN A MINIMUM CLEARANCE OF 75mm IN FRONT OF ELECTRICAL PANELS AND 30mm EITHER SIDE FROM FLOOR TO FLOOR WHERE APPLICABLE AND WRAP PIPING AROUND ELECTRICAL PANELS NOT DIRECTLY ABOVE IF ANY.
5. ALL MATERIALS, TOOLS AND EQUIPMENTS REQUIRED FOR COMPLETE AND FUNCTIONAL SYSTEMS ARE TO BE PROVIDED AS SPECIFIED OR INDICATED ON THE DRAWING EXCEPT OTHERWISE STATED
6. ALL TRAPS FOR FLOOR DRAINS AND SINKS SHALL BE DEEP SEAL TRAP FILLED WITH WATER. ALL TRAPS SHALL BE FITTED WITH WATER SEAL.
7. ALL PLUMBING EQUIPMENTS ARE TO BE INSTALLED AS PER MANUFACTURER'S INSTRUCTIONS.
8. ALL WASTE PIPES SHALL BE CONSTRUCTED WITH A MINIMUM FALL OF 1:40
9. MIXING VALVES SHALL BE USED TO TEMPER HOT WATER AT ALL SHOWER TERMINALS
10. ANY FAILED FIXTURES AND EQUIPMENTS SHALL BE REPORTED TO ARCHITECT/ENGINEER BEFORE FURTHER ACTION.
11. VALVES AND FITTINGS SHALL BE OF THE SAME SIZE AS THE LINE ON WHICH THEY ARE LOCATED UNLESS OTHERWISE INDICATED
12. ALL ILLUSTRATED DRAINAGE IS AT OR BELOW THE FLOOR WHICH IS DRAWN UNLESS OTHERWISE NOTED.
13. ALL DOMESTIC WATER AND VENT PIPING IS ON OR ABOVE THE FLOOR ON WHICH IT IS DRAWN
14. PRODUCTS AND FIXTURES EQUIVALENT TO SPECIFICATIONS CAN BE PROVIDED WITH PRIOR NOTICE.
15. AT FLOOR, DRAIN TRAPS SEALS SHALL BE MAINTAINED BY AN APPROVED TRAP PRIMER
16. EXPOSED PIPES TO KITCHEN EQUIPMENTS SHALL BE CHROME PLATED OR STAINLESS STEEL
16. REDUCERS SHALL BE USED TO JOIN VARIYING PIPE SECTIONS

LEGEND	
▣	Gully
↓	Downward pipe
○	Upward pipe
⊜	Floor drain
▶	Flow
SP	Soil pipe
WP	Waste pipe
———	Waste water

① 150mm UPVC soil pipe
② 100mm pvc vent/waste pipe

NOTES AND LEGEND

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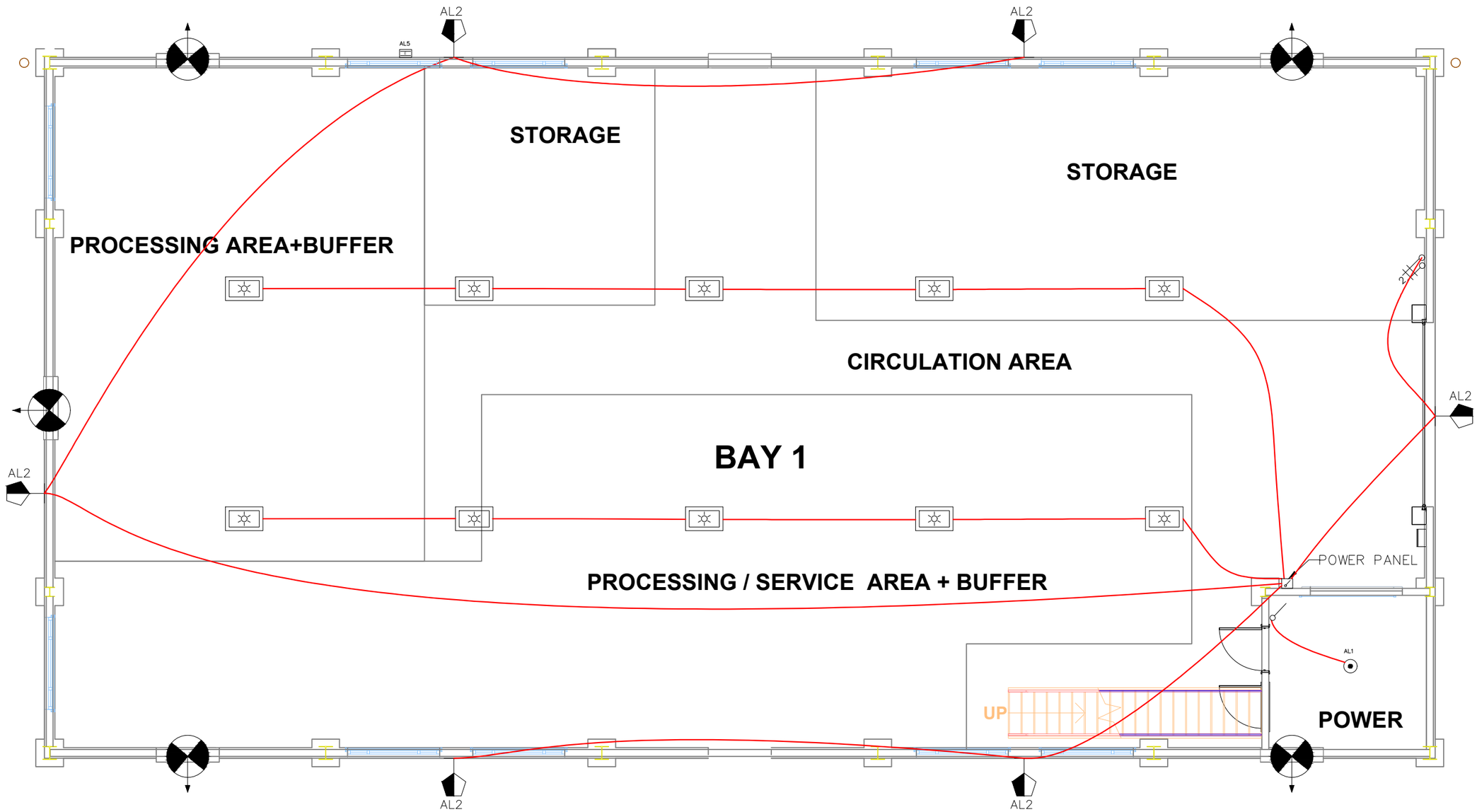
Sheet ID: WASTE/DRAIN

Project number	CDEL/KT/APF-01
Date	October, 2026
Drawn by	A. A Kantoma
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M01

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Status	Review	Version
Discipline	Common	V1-M-E03

General Notes

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No.	Description	Date

Beneficiaries:
Shinkafi Community, Katsina LGA, Katsina State

Project:
Proposed Agro-Processing Hub, Shinkafi, Katsina

Sheet ID: **ELECTRICAL PLAN**

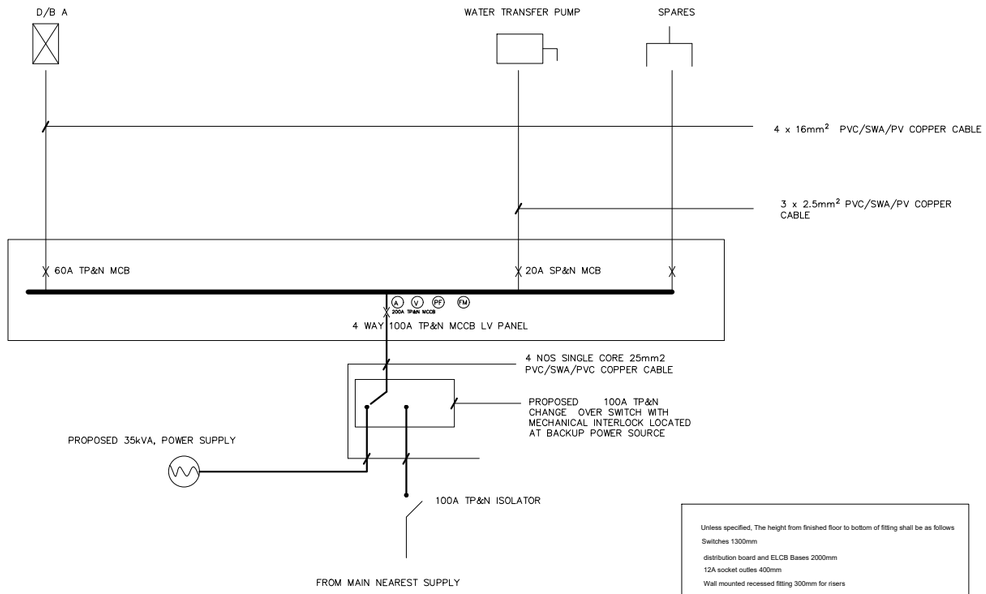
Project number	CDEL/KT/APP-01
Date	October, 2026
Drawn by	
Checked by	Prof. Jamil Usman
Scale	

M-E03

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LEGEND	
SYMBOL	DESCRIPTION
	50W weather proof wall mounted fitting
	Circuit breaker
	100W Indoor LED Lamp
	10A Gang one way switch
	10A 2 Gang one way switch
	Earth terminal
	10A 2 Gang two way switch
	20W ceiling mount fitting
	1 Gang two way light switch
	TPN Distribution board
	Extraction fan



Unless specified, The height from finished floor to bottom of fitting shall be as follows

Switches 1300mm

distribution board and ELCB Bases 2000mm

12A socket outlets 400mm

Wall mounted recessed fitting 300mm for risers

L.V PANEL SCHEMATIC DIAGRAM

PROPOSE LV PANEL					
TYPE	100A TP&N 4–WAY				
FED FROM :	NEAREST SUPPLY				
INCOMING CABLE :	4 x 25mm² /PVC/SWA/PV COPPER CABLE				
INCOMING ISOLATING SWITCH :	100A TP&N MCCB				
CIR NO	LOADS(WATTS)	MCB (AMP) (TP&N)	CIRCUIT DESCRIPTION	LOCATION	CABLE SIZE (mm)
1	50,000	60A TP&N MCB	DISTRIBUTION BOARD A	PROCESSING	4 x 16mm²
2		20A SP&N MCB	WATER PUMP	WATER SUPPLY	3 x 2.5mm²

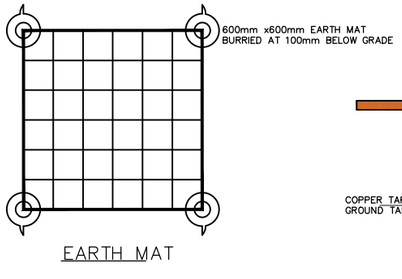
ESTIMATED INSTALLED POWER IN KW = 50

80% DIVERSITY = 96

INSTALLED CURRENT (AMPS) SHALL BE CONFIRMED BEFORE ELECTRICALL INSTALLATION

2.5MM CABLE SHALL BE USED FOR LIGHTING AND 4MM FOR POWER

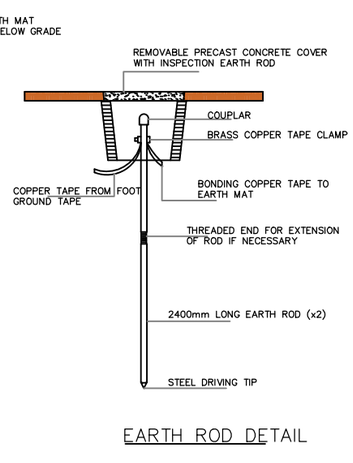
L.V PANEL LOAD ANALYSIS



EARTH MAT

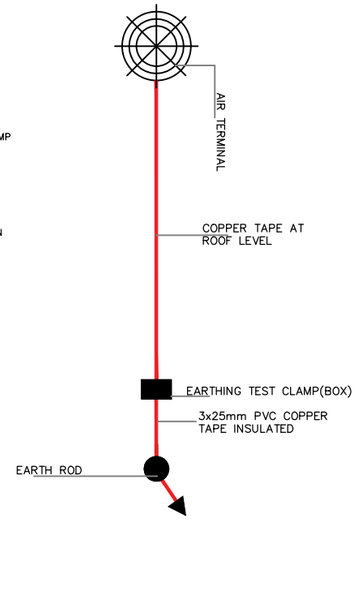
NOTE:

1. EARTH MAT SHALL BE LAID AT 1000mm BELOW GRADE LEVEL
2. EARTH ROD SHALL BE DRIVEN DOWN AND BONDED AT EACH STAGE OF THE MAT TO OBTAIN EARTH ELECTRODE RESISTANCE OF 1 Ω.



EARTH ROD DETAIL

AS MOUNTED ON THE ROOF



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