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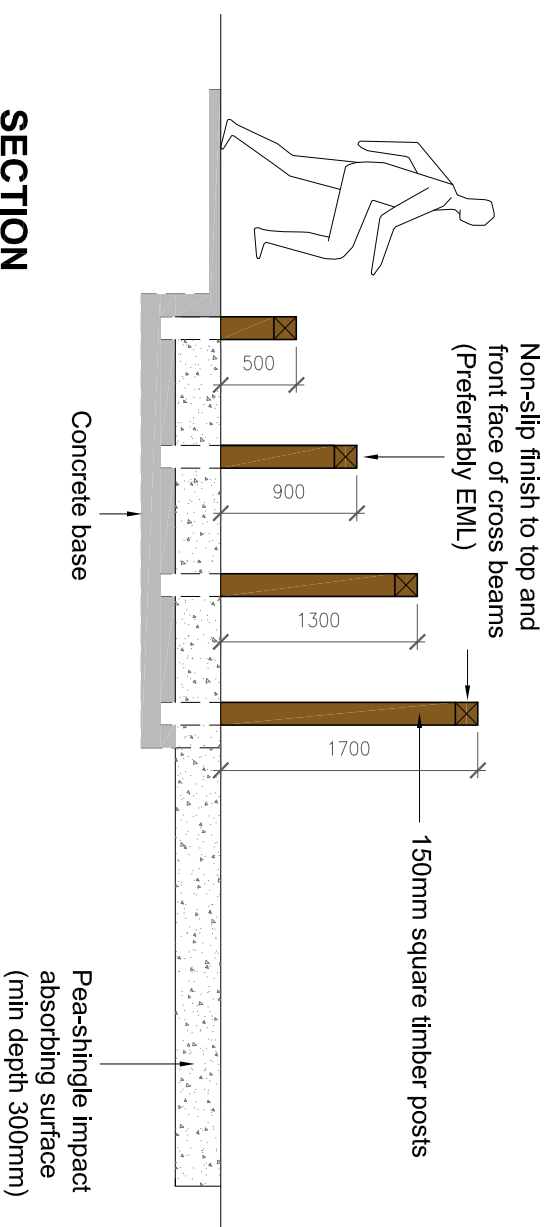
EML
EML SHOULD BE LAID SO THAT THE LOZENGE IS 15mm LENGTH ALONG THE DIRECTION OF TRAVEL AND 40mm ACROSS THE DIRECTION.

NOTES: DO NOT SCALE: Contractor to check all dimensions and report any omissions or errors

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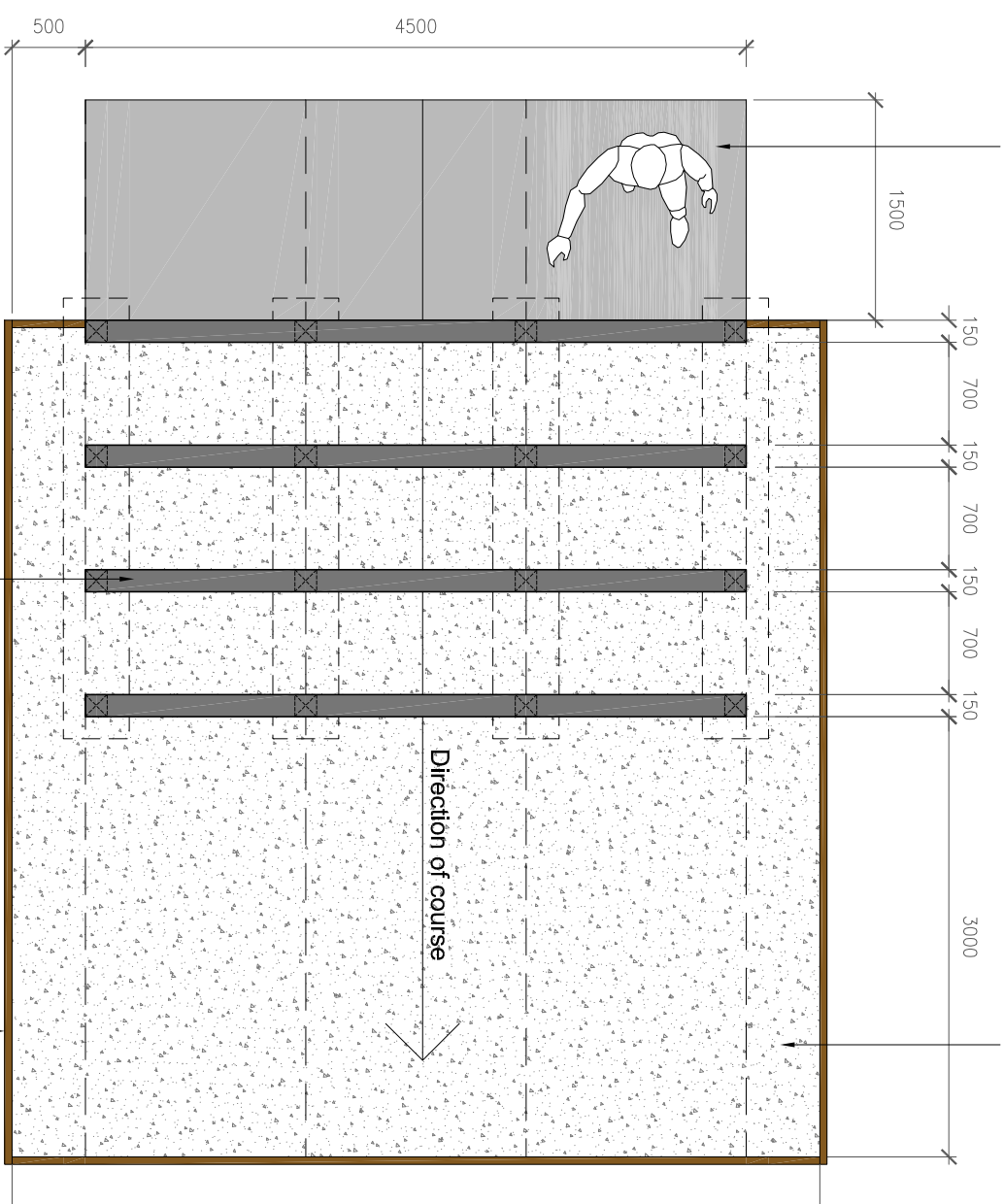
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SECTION

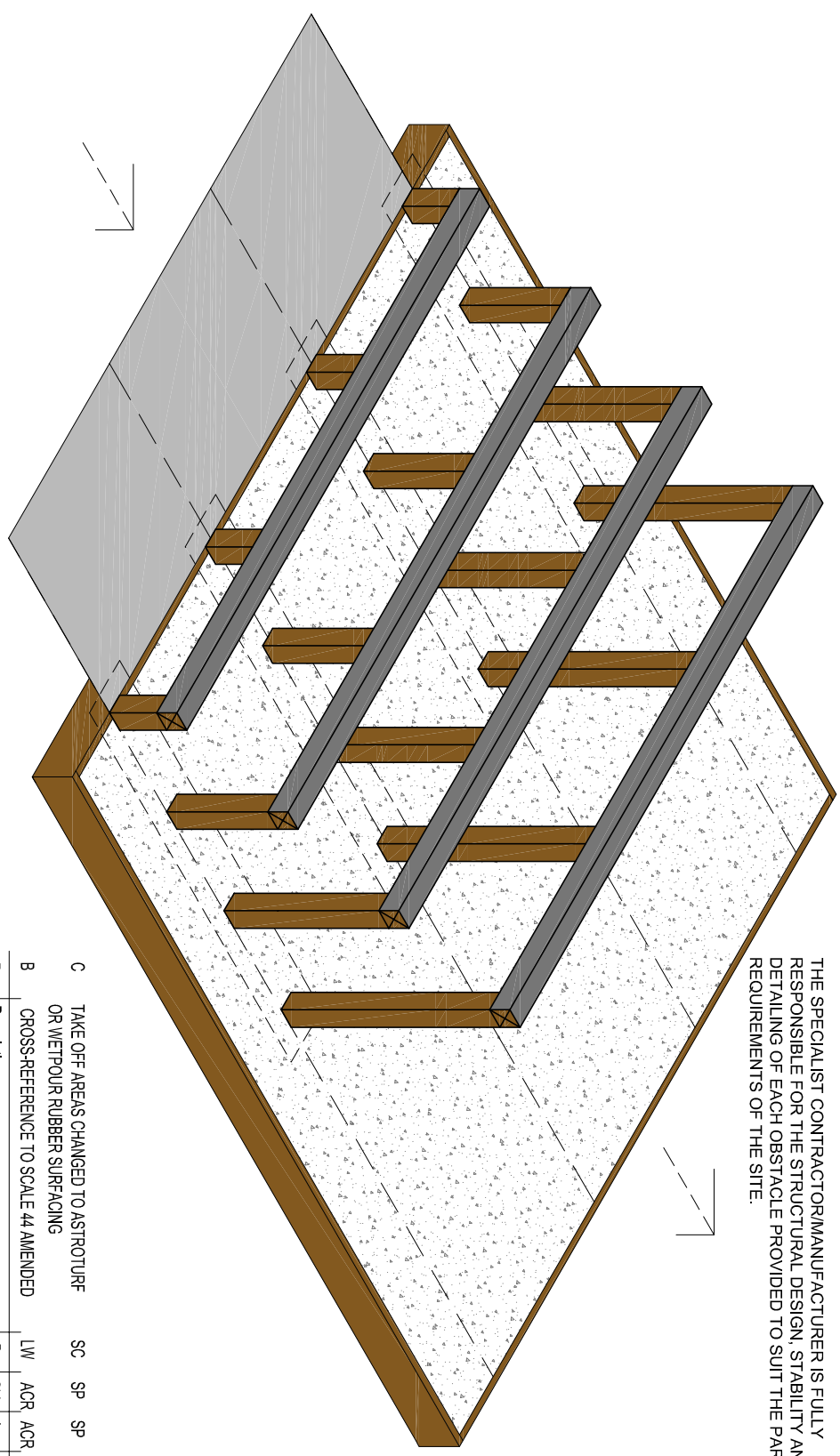
Astro turf or wet pour rubber surface take-off area

Landing Pit



PLAN

ISOMETRIC VIEW



C	TAKE OFF AREAS CHANGED TO ASTROTURF OR WETPOUR RUBBER SURFACING	SC	SP	SP	FEB '09
B	CROSS-REFERENCE TO SCALE 44 AMENDED	LW	ACR	ACR	JUNE'07
Rev	Description	By	Chk	App	Date
Client:					

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 Green**

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Civil Structural Mechanical Electrical Process Rail Traffic Environmental Project Management

OBSTACLE COURSE DRAWINGS

Drawing Title:
OBSTACLE A1 - STEPS
 (JSP 315 SCALE 44, ANNEX A, SERIAL 1)
 COURSE TYPE A

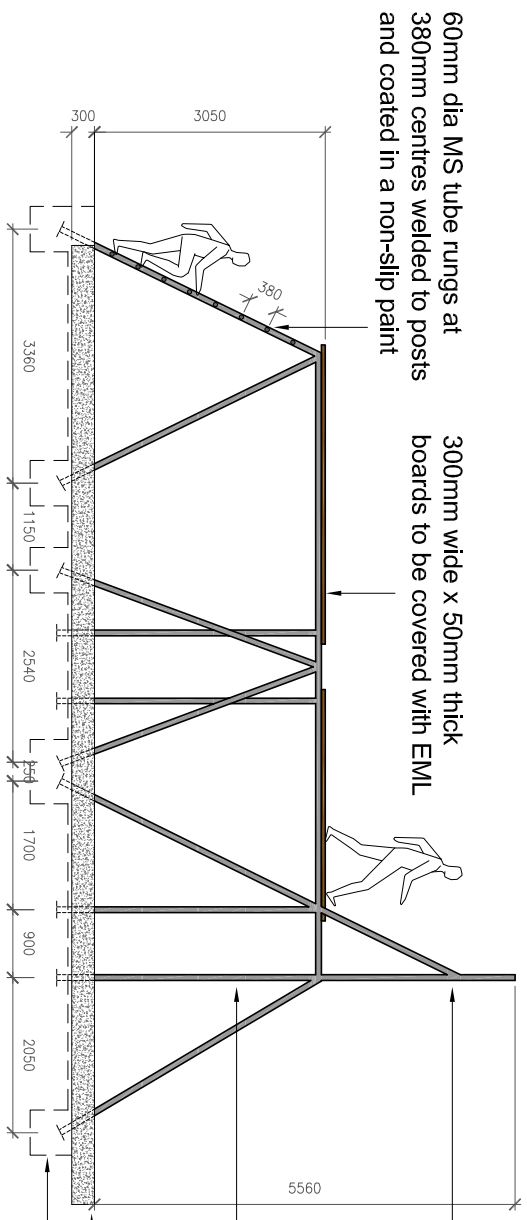
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Project No.	Office	Type	Drawing No.	Revision		
E008949	35	04	E8949/DE/A1	C		
APPROVAL	INFORMATION	TENDER	CONTRACT	CONSTRUCTION		
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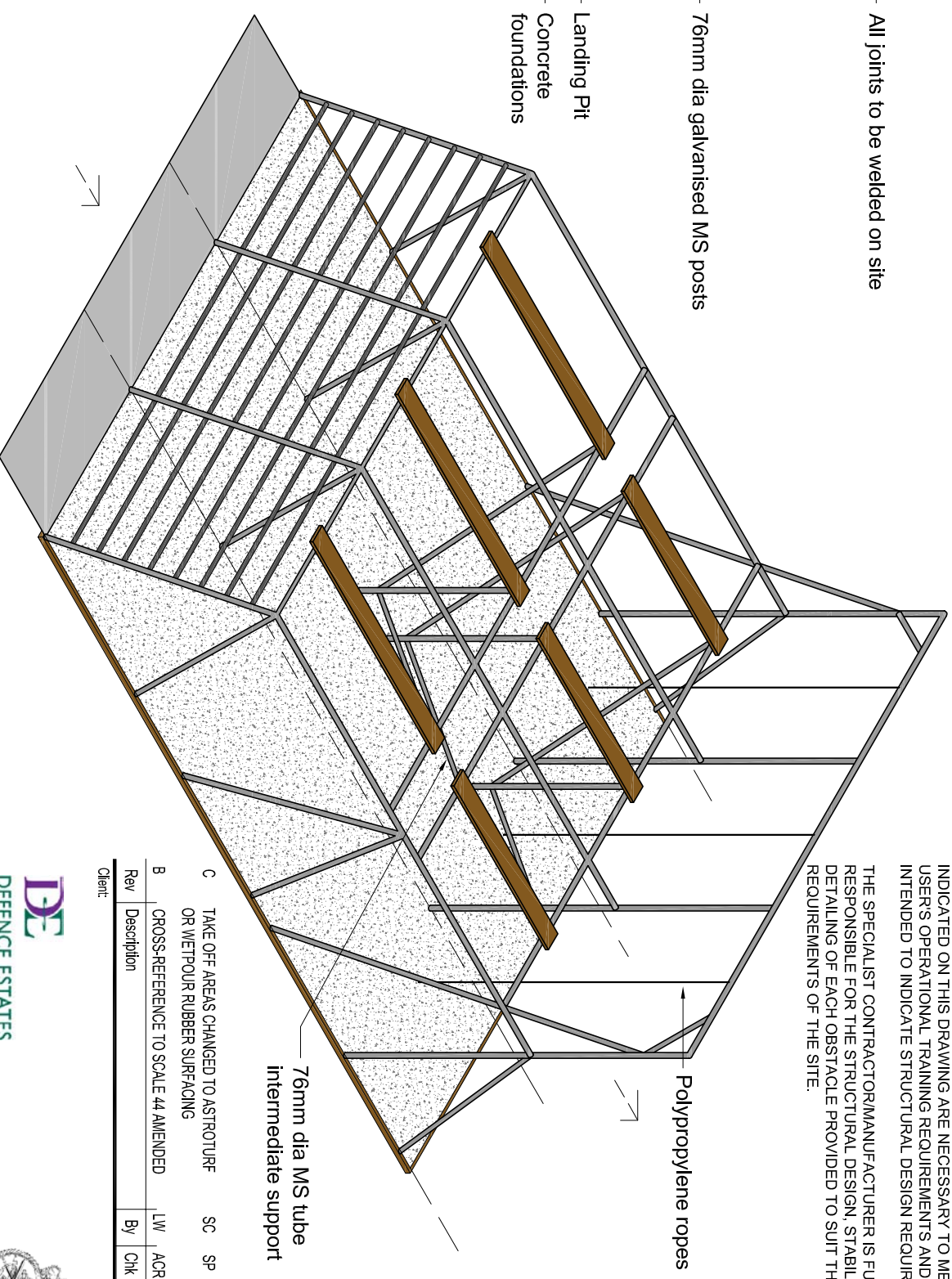
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NOTES:

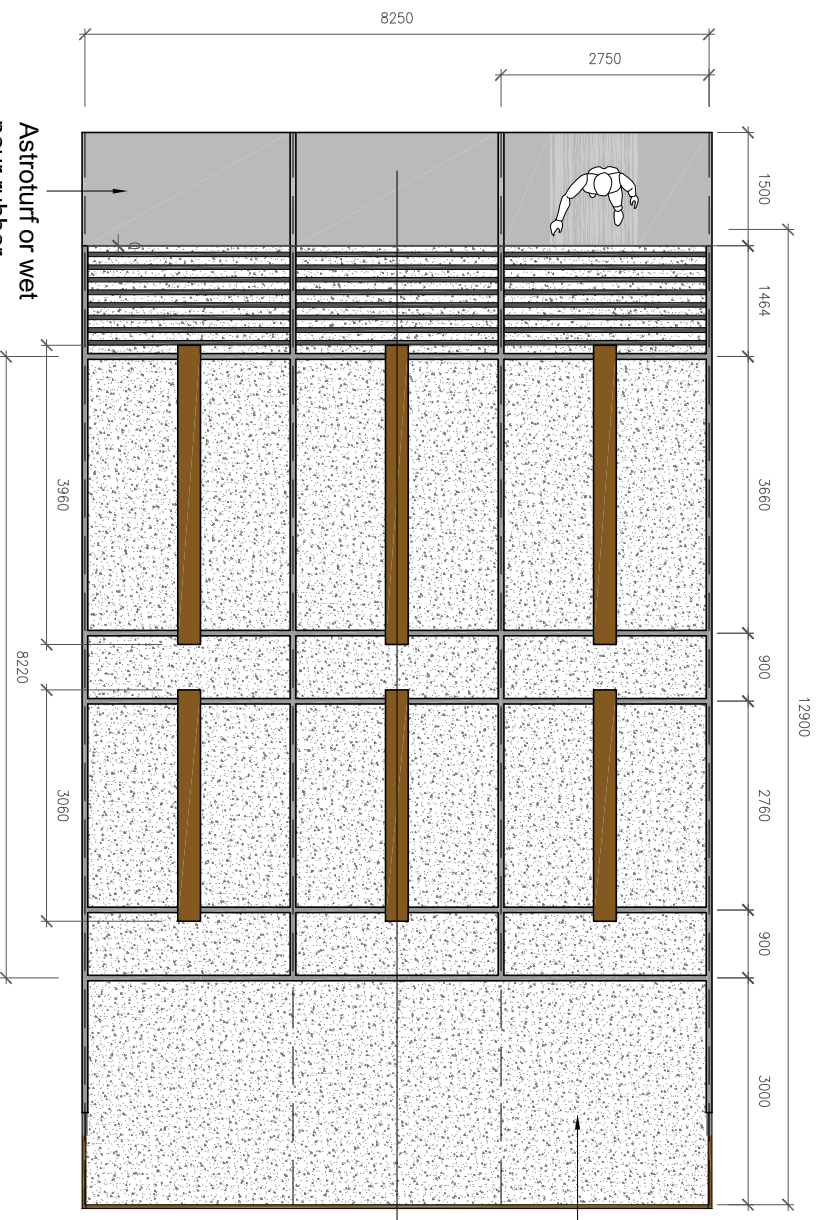
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SECTION



ISOMETRIC VIEW



PLAN

Rev	Description	LW	ACR	ACR	JUNE 07
C	TAKE OFF AREAS CHANGED TO ASTROTURF OR WETPOUR RUBBER SURFACING	SC	SP	SP	FEB 09
B	CROSS-REFERENCE TO SCALE 44 AMENDED	LW	ACR	ACR	JUNE 07

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Project:

OBSTACLE COURSE DRAWINGS

Drawing Title:
OBSTACLE A10 - BEAM BALANCE
(JSP 315 SCALE 44, ANNEX A, SERIAL 10)
COURSE TYPE A

Scale at A3	Drawn By	Date	Checked By	Date	Approved By	Date
1:100	LW	01/08/06	SPP	01/08/06	ACR	01/08/06
Project No.	Office	Type	Drawing No.	Revision		
E008949	35	04	E8949/DE/A10	C		

APPROVAL INFORMATION TENDER CONTRACT CONSTRUCTION

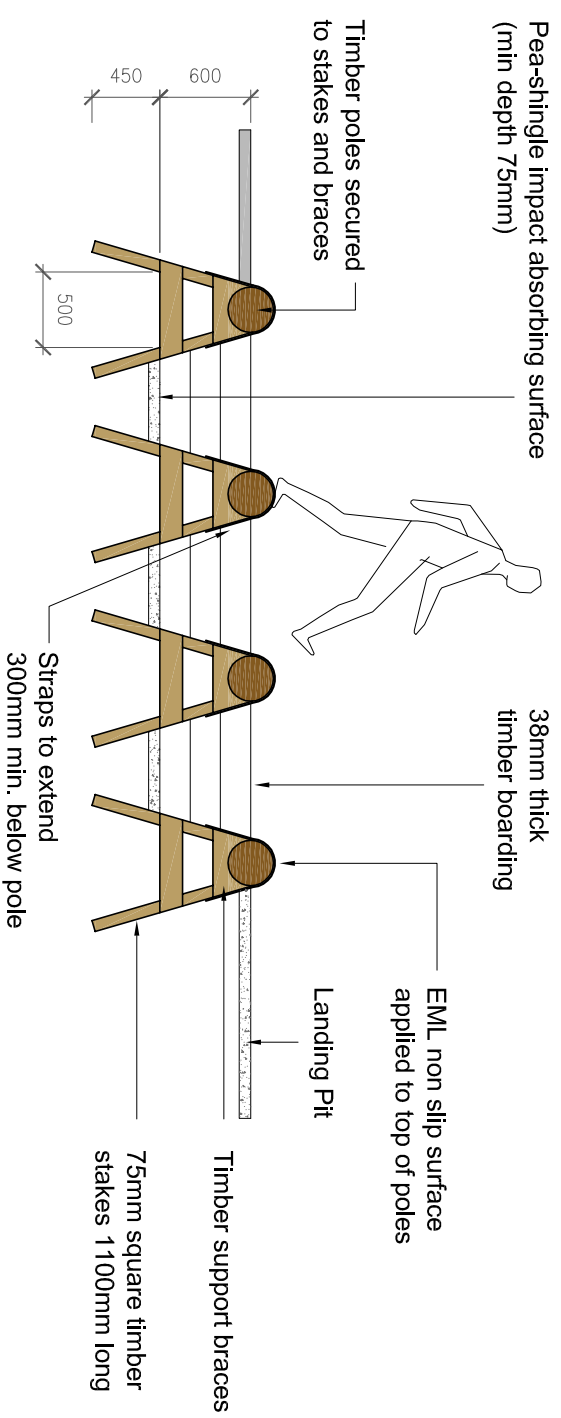
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EML
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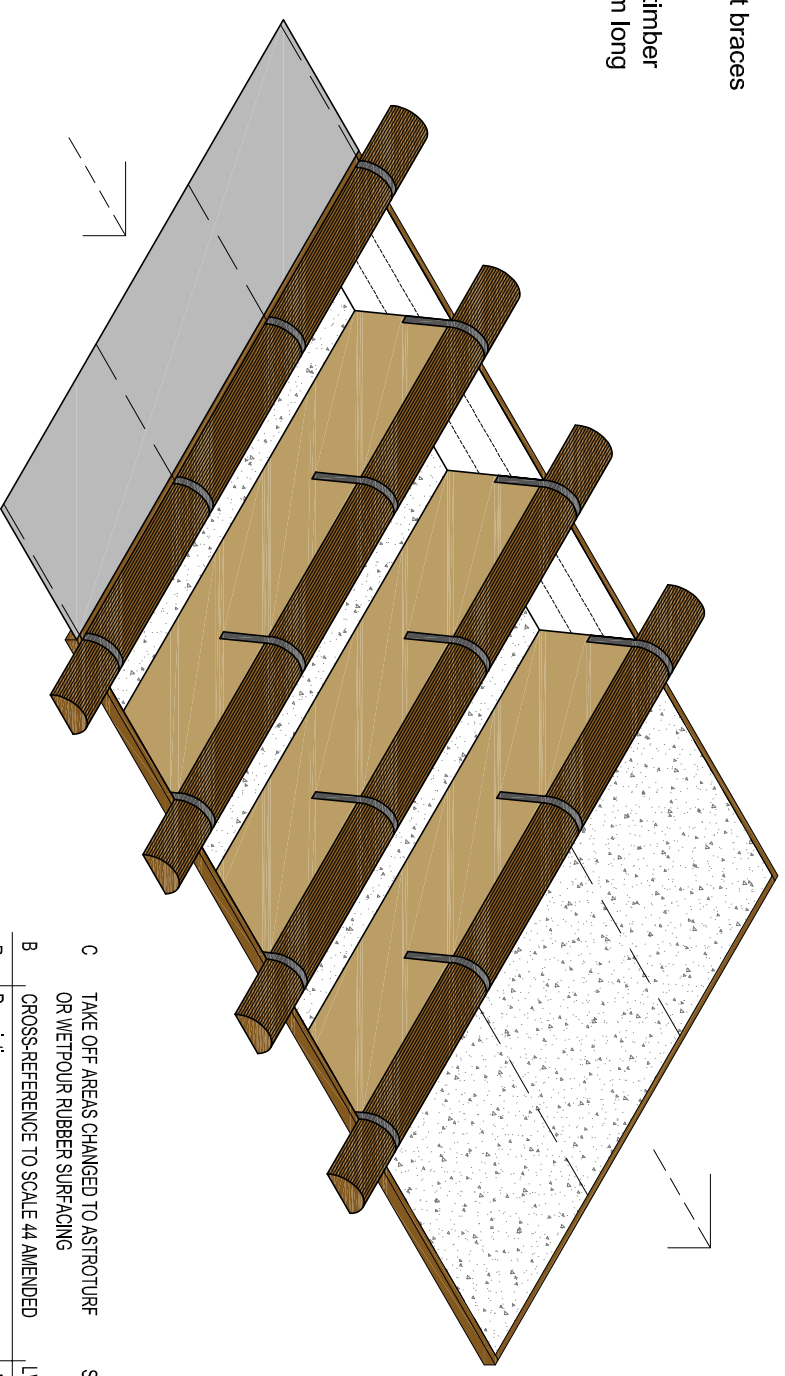
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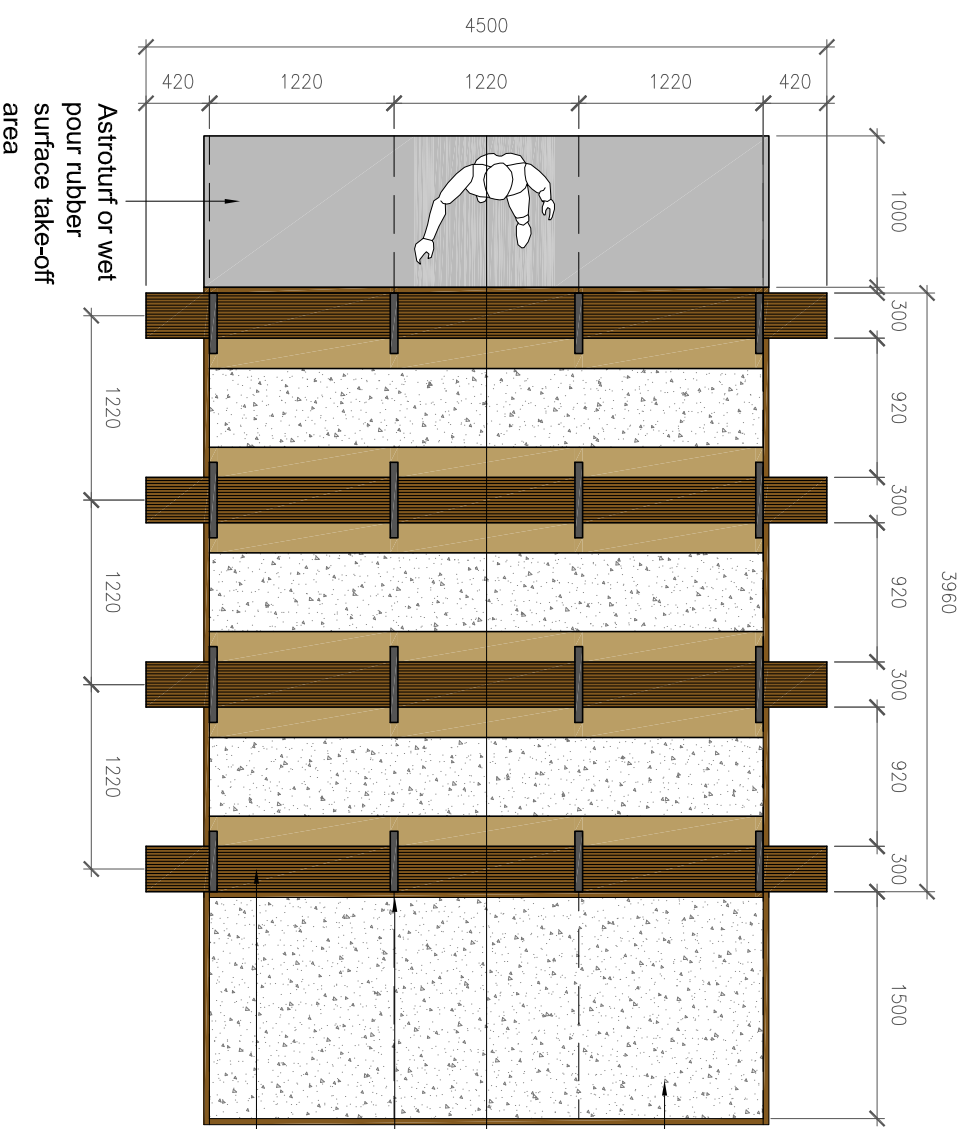
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SECTION



ISOMETRIC VIEW



PLAN

- Pea-shingle impact absorbing surface (min depth 75mm)
- Direction of course
- 50mm x 3mm thick galvanised MS straps fixed to timber stakes to hold 4 no. 300mm dia poles
- 4 no. 300mm dia timber poles 4500mm long with non-slip surface (EML)



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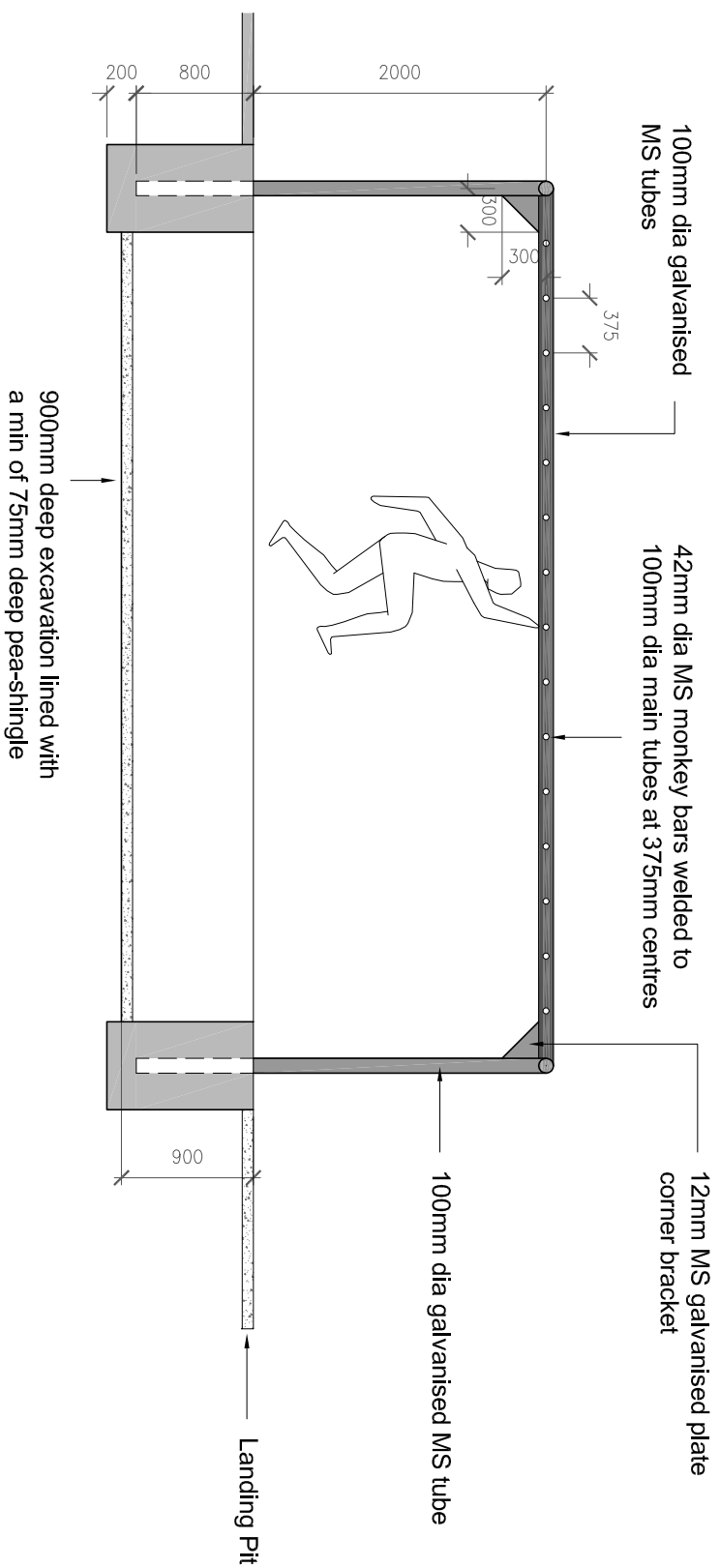
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Project:

OBSTACLE COURSE DRAWINGS

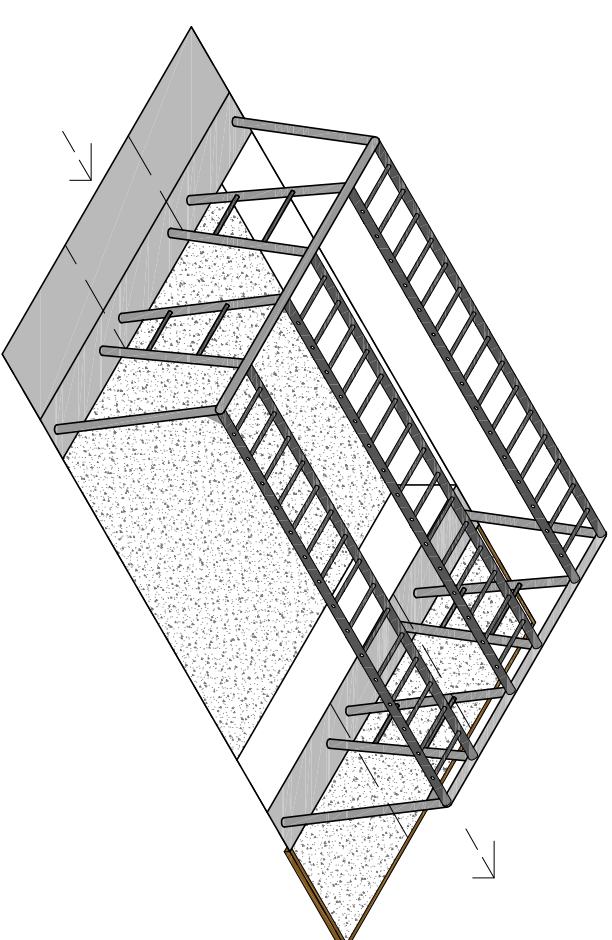
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OBSTACLE A11 - TREBLE STRIDE DITCH
(JSP 315 SCALE 44, ANNEX A, SERIAL 11)
COURSE TYPE A

Scale at A3	Drawn By	Date	Checked By	Date	Approved By	Date
1:50	LW	01/08/06	SPP	01/08/06	ACR	01/08/06
Project No.	Office	Type	Drawing No.	Revision		
E008949	35	04	E8949/DE/A11	C		
APPROVAL	INFORMATION	TENDER	CONTRACT	CONSTRUCTION		

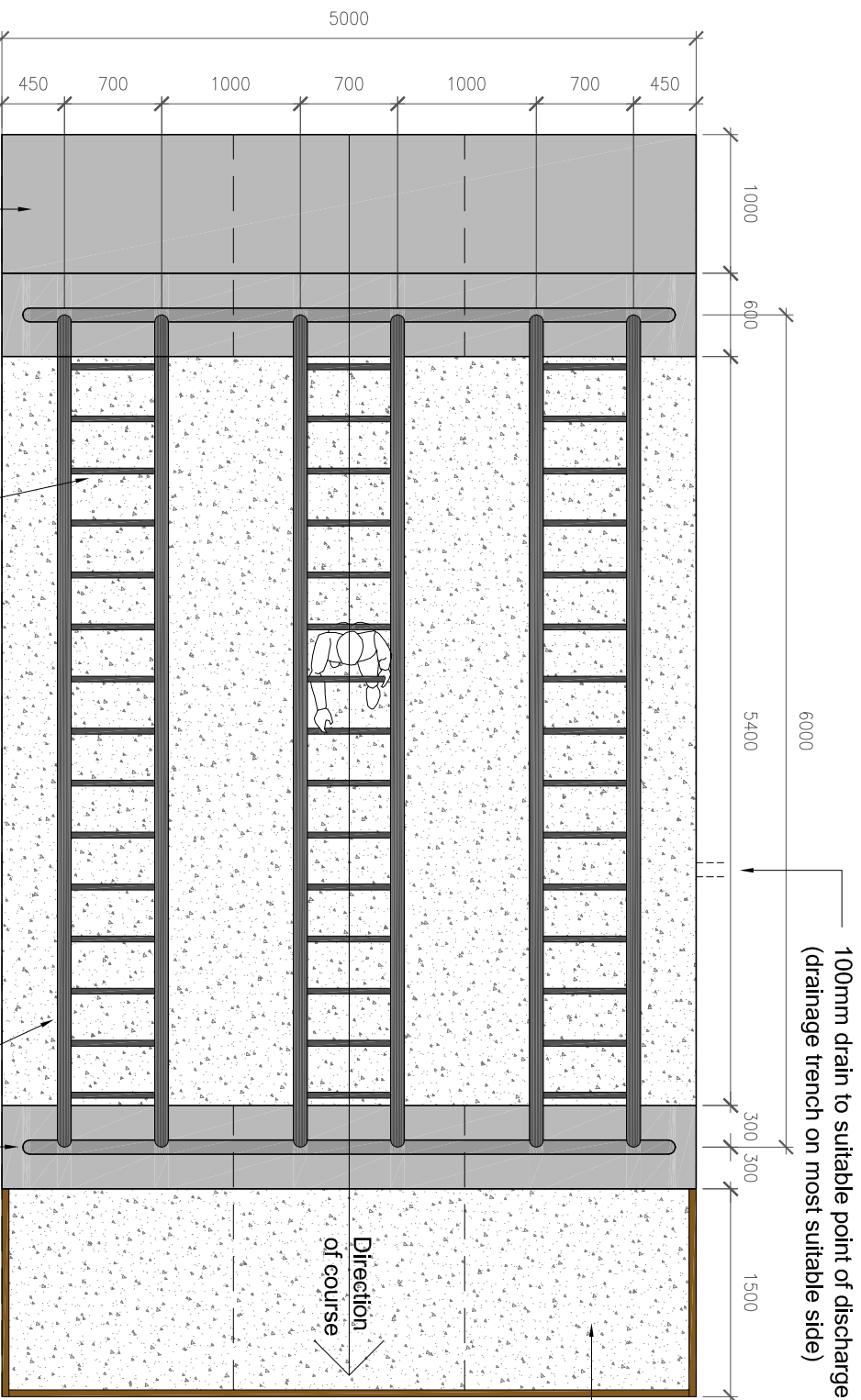
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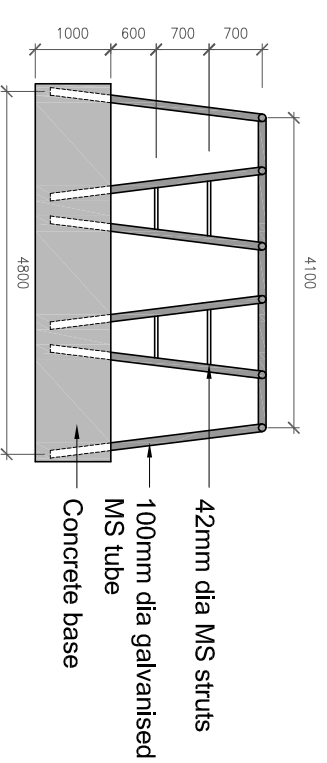
SECTION
 Scale 1:50



ISOMETRIC VIEW
 Scale 1:100



PLAN
 Scale 1:50



**ELEVATION FACING
 DIRECTION OF COURSE**
 Scale 1:100

Rev	Description	LW	ACR	App	Date
B	CROSS-REFERENCE TO SCALE 44 AMENDED	LW	ACR	App	JUNE 07
C	TAKE OFF AREAS CHANGED TO ASTROTURF OR WETPOUR RUBBER SURFACING	SC	SP	SP	FEB 09



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OBSTACLE COURSE DRAWINGS

Drawing Title:
OBSTACLE A12 - OVERHEAD TRAVERSE
 (JSP 315 SCALE 44, ANNEX A, SERIAL 12)
 COURSE TYPE A

Scale at A3	Drawn By	Date	Checked By	Date	Approved By	Date
AS SHOWN	LW	01/08/06	SPP	01/08/06	ACR	01/08/06
Project No.	Office	Type	Drawing No.	Revision		
E008949	35	04	E8949/DE/A12	C		

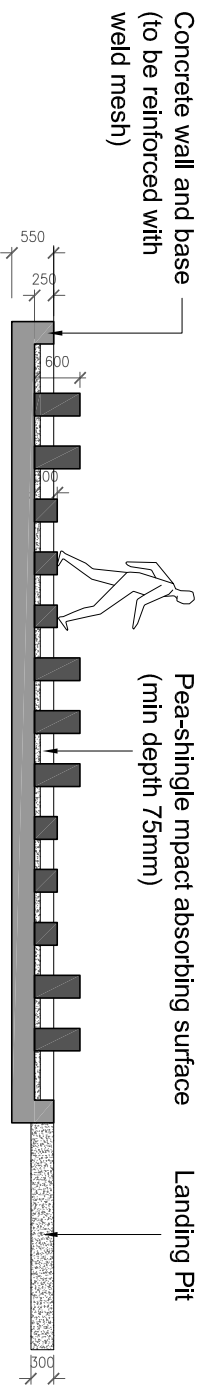
APPROVAL INFORMATION TENDER CONTRACT CONSTRUCTION

NOTES:

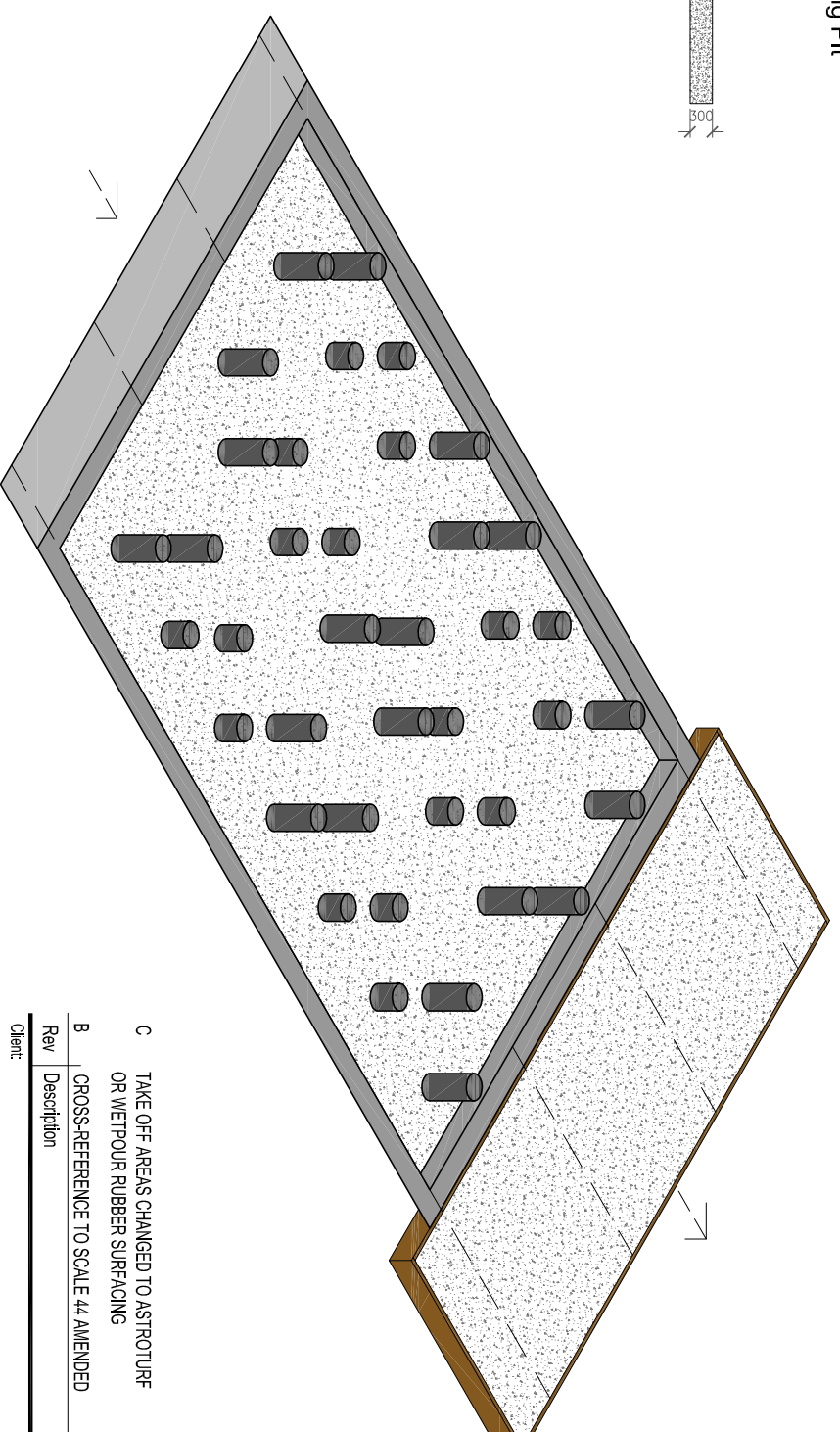
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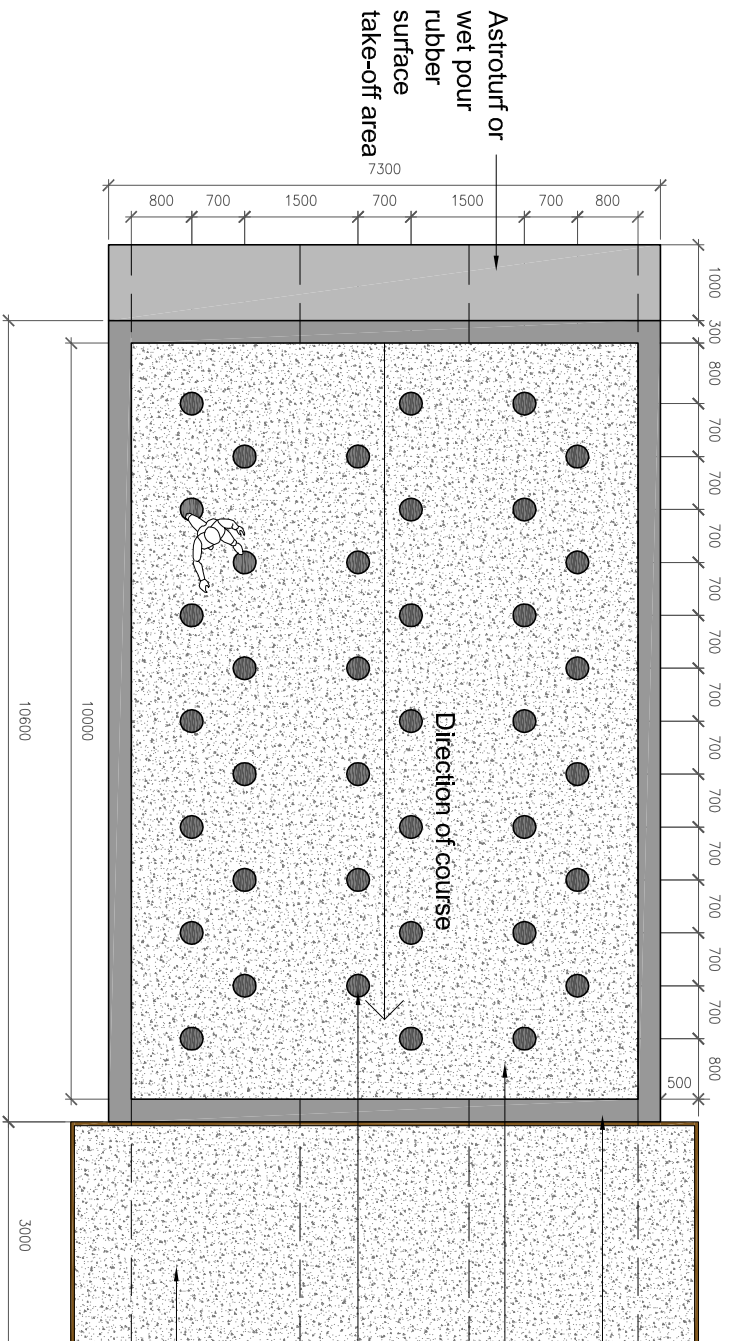
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SECTION



ISOMETRIC VIEW



- Concrete wall
- Pea-shingle impact absorbing surface (min depth 75mm)
- 300mm dia concrete stepping stones
- Pea-shingle impact absorbing surface (min depth 300mm)

PLAN

C	TAKE OFF AREAS CHANGED TO ASTROTURF OR WETPOUR RUBBER SURFACING	SC	SP	SP	FEB 09
B	CROSS-REFERENCE TO SCALE 44 AMENDED	LW	ACR	ACR	JUNE 07
Rev	Description	By	Chk	App	Date
Client:					



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OBSTACLE COURSE DRAWINGS

Drawing Title:
OBSTACLE A13 - STEPPING STONES
(JSP 315 SCALE 44, ANNEX A, SERIAL 13)
COURSE TYPE A

Scale at A3	Drawn By	Date	Checked By	Date	Approved By	Date
1:100	LW	01/08/06	SPP	01/08/06	ACR	01/08/06
Project No.	Office	Type	Drawing No.	Revision		
E008949	35	04	E8949/DE/A13	C		
APPROVAL	INFORMATION	TENDER	CONTRACT	CONSTRUCTION		
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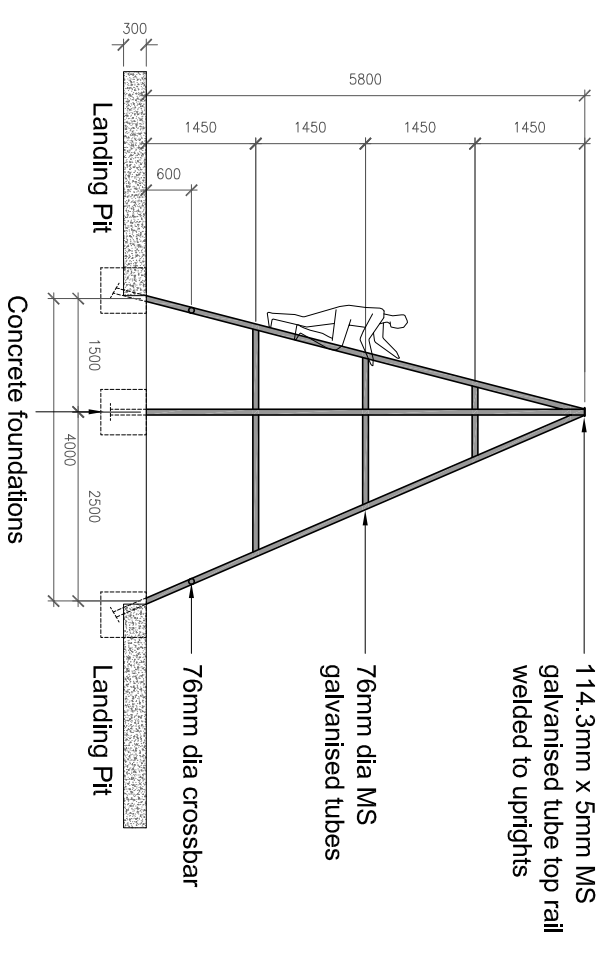
DO NOT SCALE: Contractor to check all dimensions and report any omissions or errors

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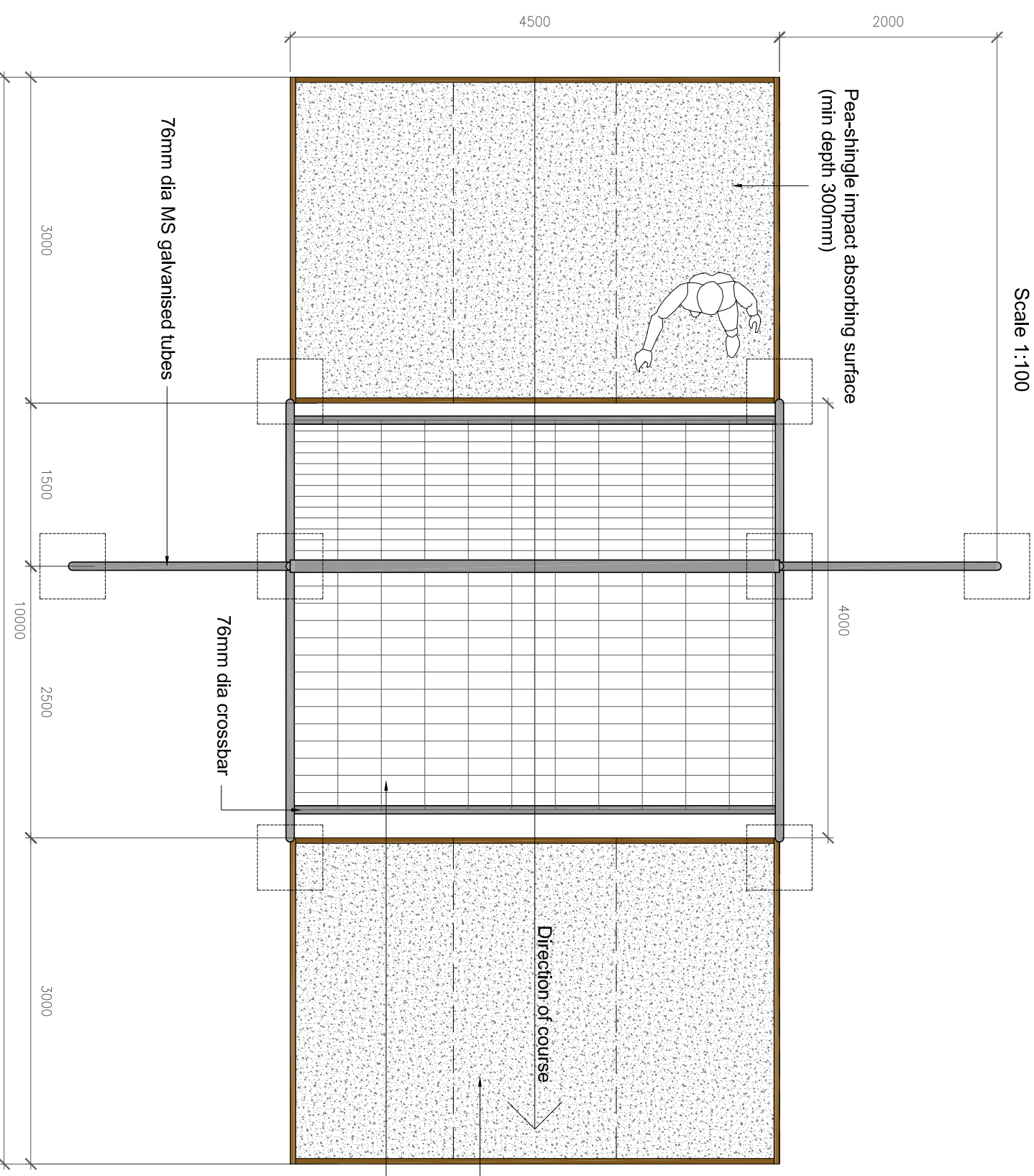
THIS DRAWING IS TO BE READ IN ACCORDANCE WITH THE GENERAL DESIGN GUIDANCE NOTES INDICATED ON E8949/DE/AB01

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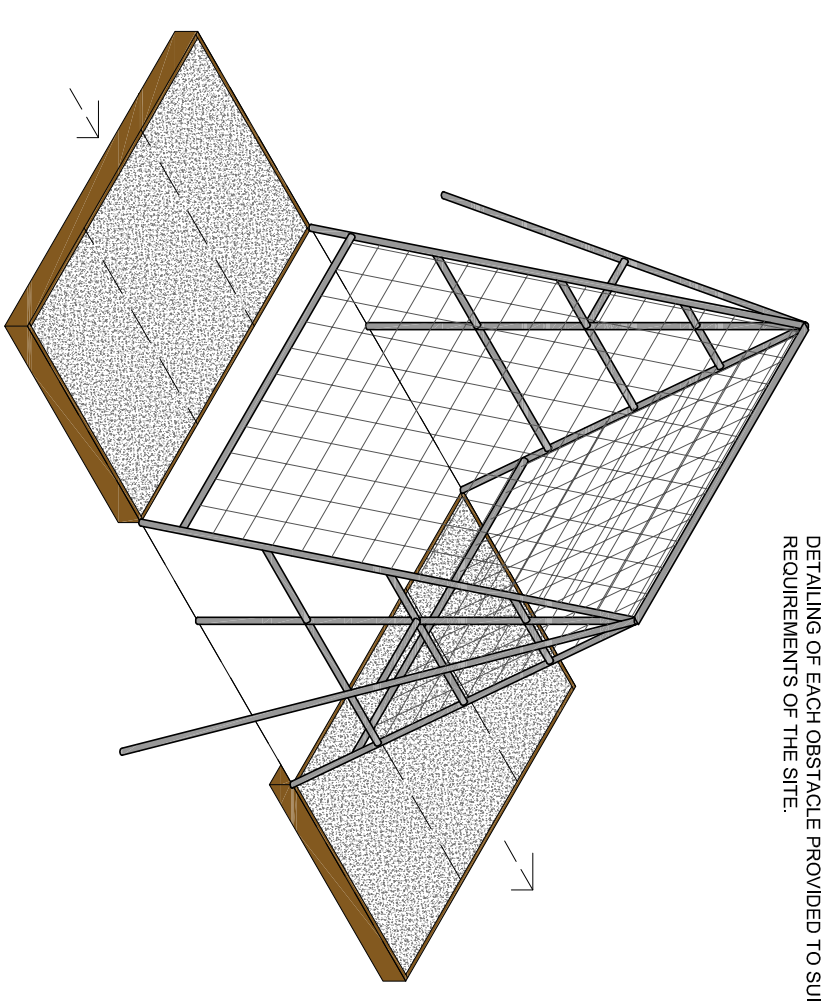
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SECTION
Scale 1:100



ISOMETRIC VIEW
Scale 1:100



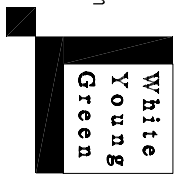
Pea-shingle impact absorbing surface (min depth 300mm)

Scramble net hung from 114.3mm dia top rail and fixed to lower crossbar (Refer to General Design Guidance Notes E8949/DE/AB01 Rev A)



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OBSTACLE COURSE DRAWINGS

Drawing Title:
OBSTACLE A14 - SCRAMBLE NET
(JSP 315 SCALE 44, ANNEX A, SERIAL 14)
COURSE TYPE A

Scale at A3	Drawn By	Date	Checked By	Date	Approved By	Date
AS SHOWN	LW	01/08/06	SPP	01/08/06	ACR	01/08/06
Project No.	Office	Type	Drawing No.	Revision		
E008949	35	04	E8949/DE/A14	B		

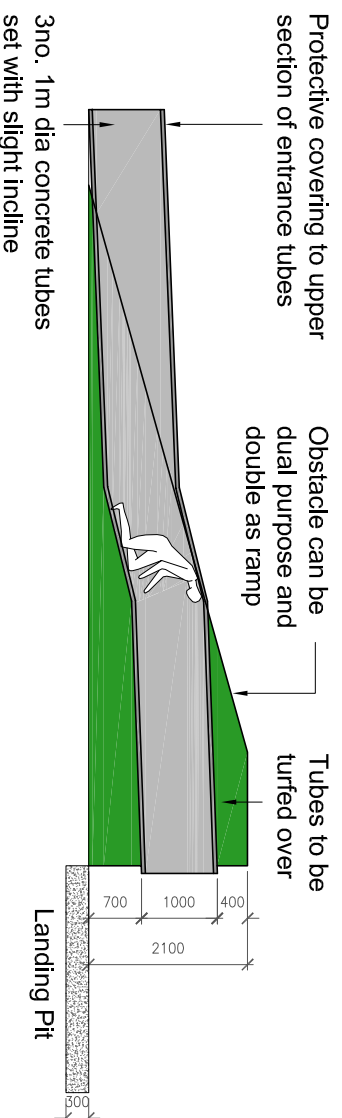
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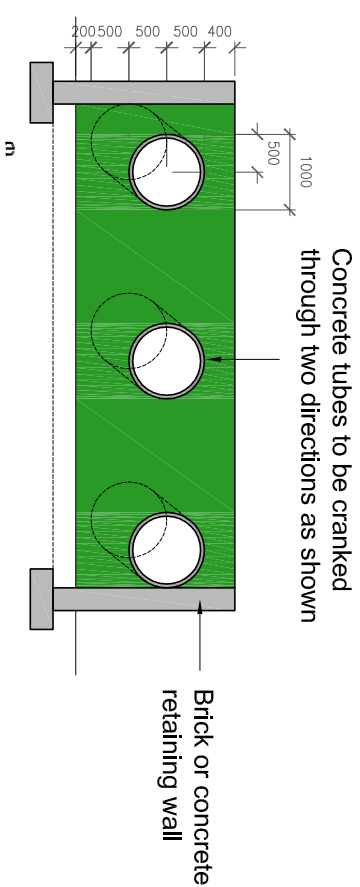
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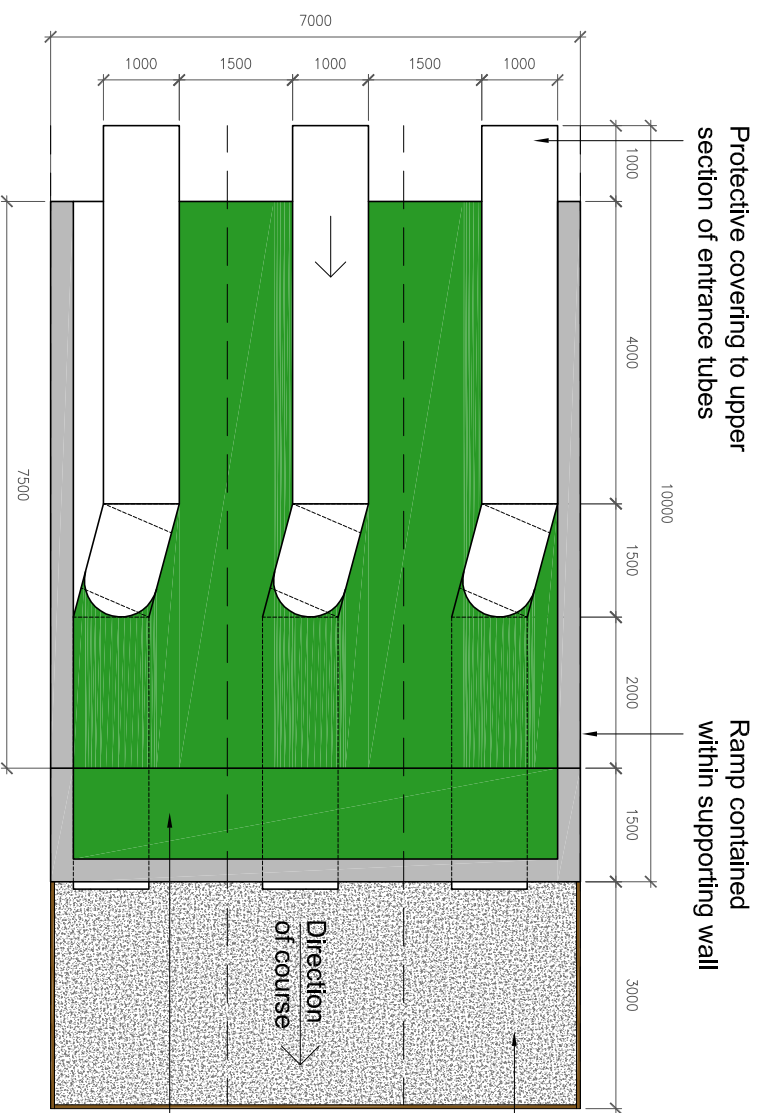
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SECTION



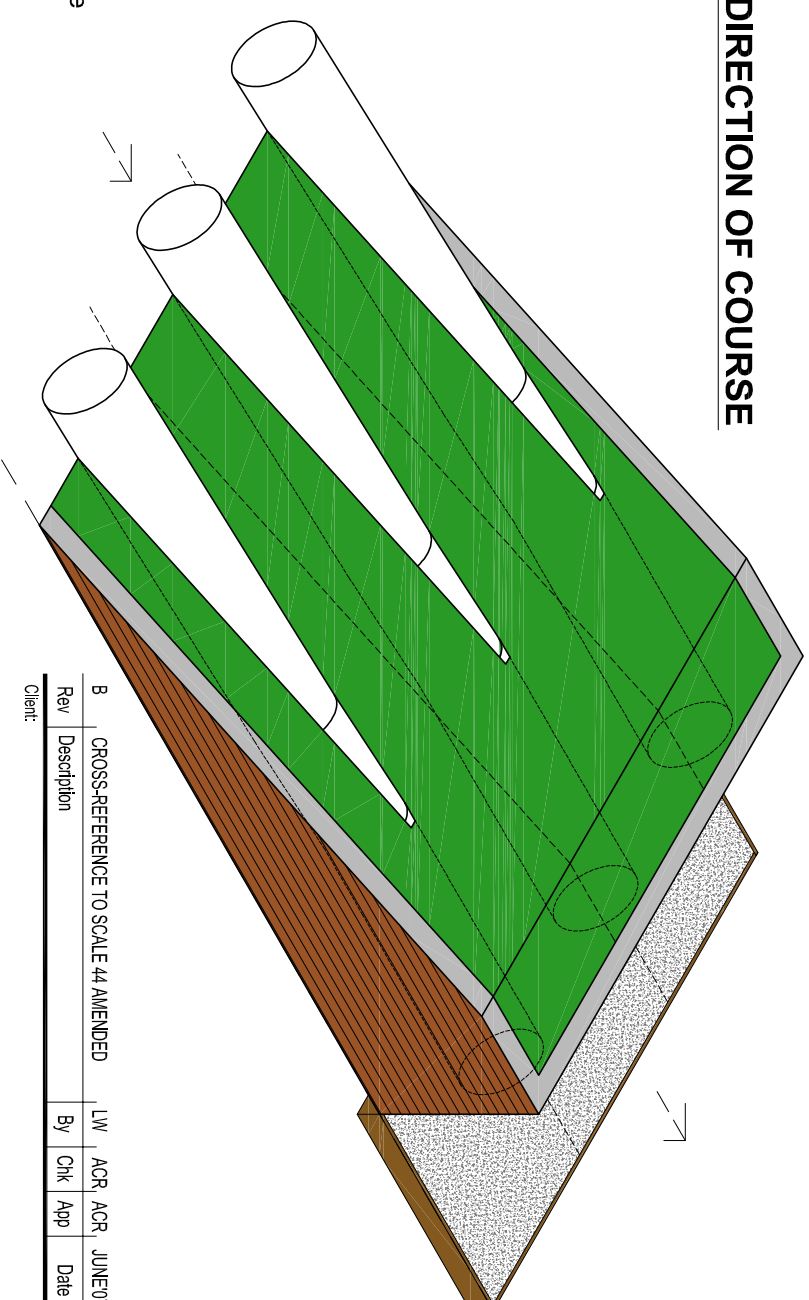
SECTION FACING DIRECTION OF COURSE



PLAN

Pea-single impact absorbing surface (min depth 300mm)

ISOMETRIC VIEW



Rev	Description	By	Chk	App	Date
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Project: Civil Structural Mechanical Electrical Process Rail Traffic Environmental Project Management

OBSTACLE COURSE DRAWINGS

Drawing Title:

OBSTACLE A15 - TUBE CRAWL
(JSP 315 SCALE 44, ANNEX A, SERIAL 15)
COURSE TYPE A

Scale at A3	Drawn By	Date	Checked By	Date	Approved By	Date
1:100	LW	01/08/06	SP9	01/08/06	ACR	01/08/06
Project No.	Office	Type	Drawing No.	Revision		
E008949	35	04	E8949/DE/A15	B		

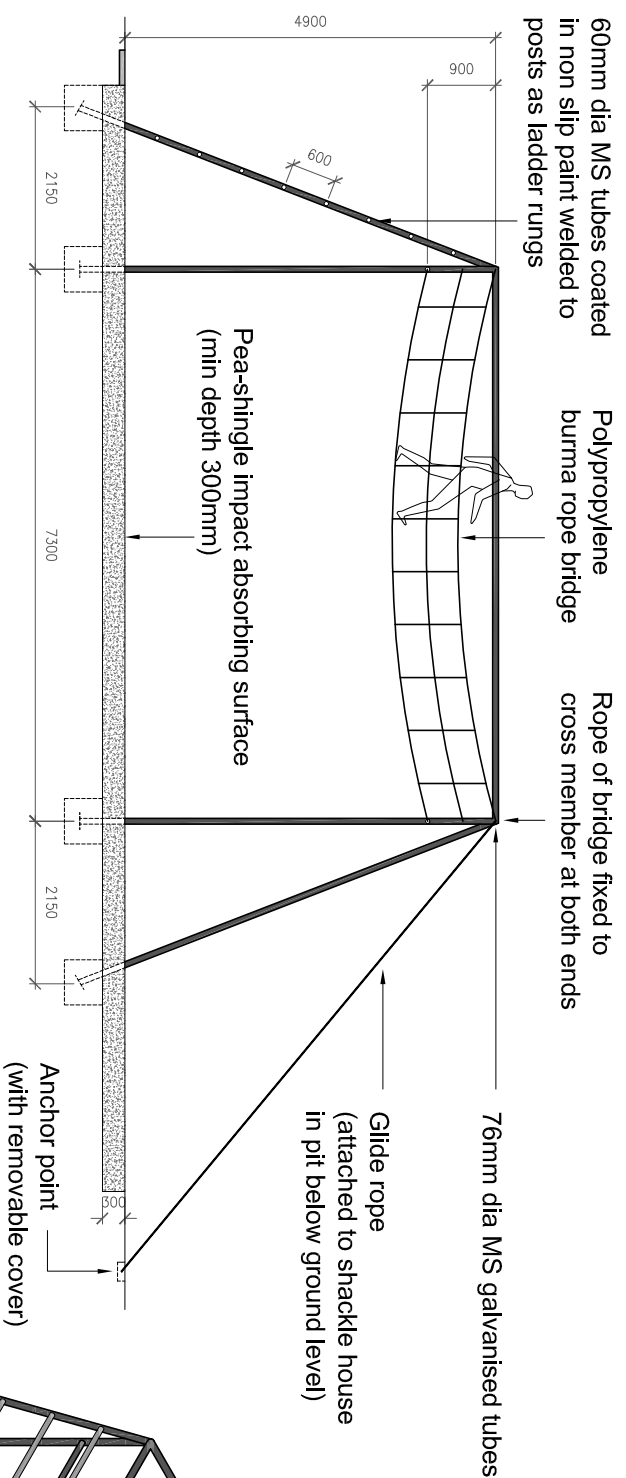
APPROVAL INFORMATION TENDER CONTRACT CONSTRUCTION

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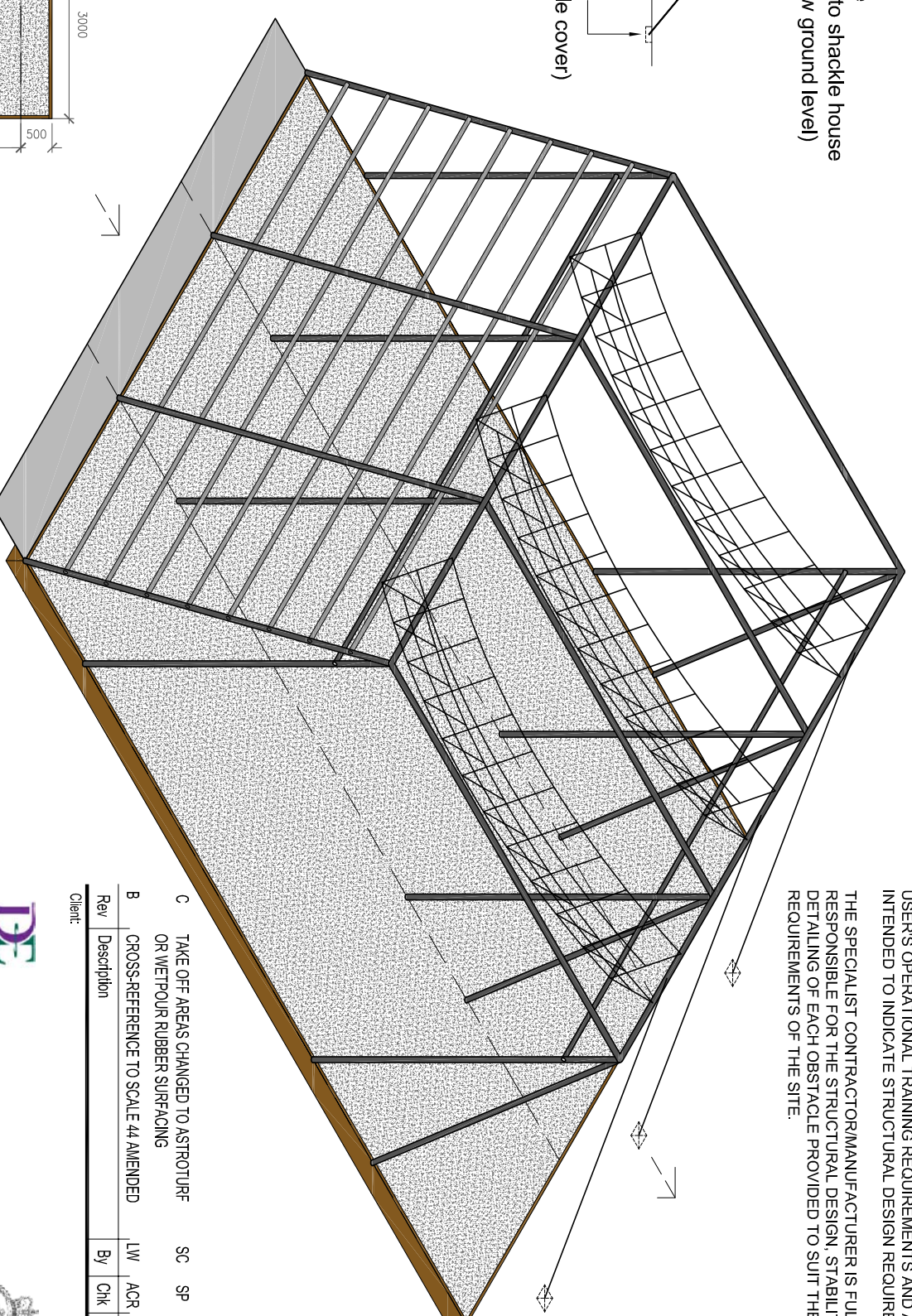
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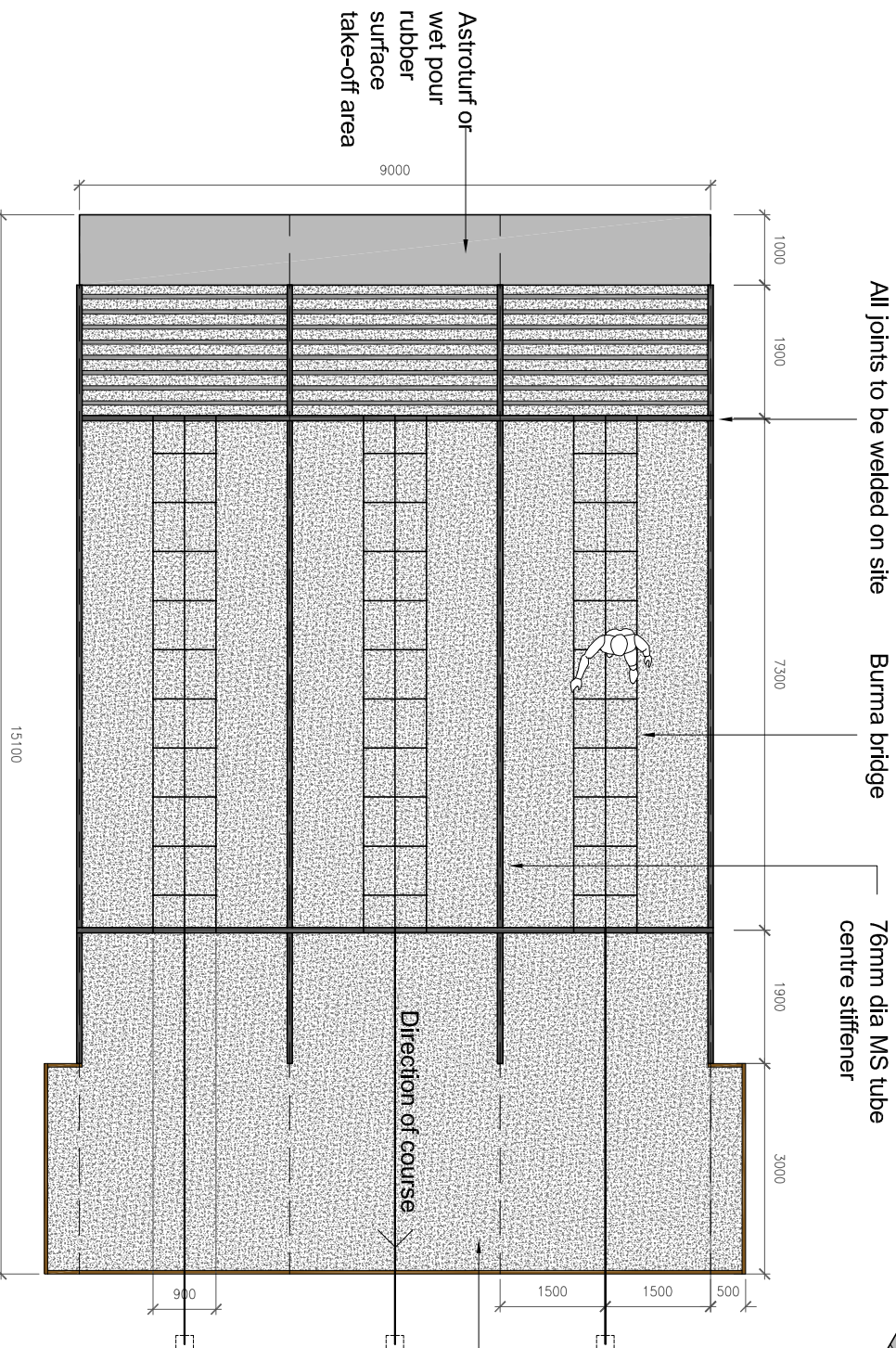
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SECTION



ISOMETRIC VIEW



PLAN

NOTES:

BURMA ROPE BRIDGE - VERTICAL STRANDS
THE GAP BETWEEN UPRIGHTS MUST BE WITHIN A MINIMUM OF 650MM AND A MAXIMUM OF 750MM.

BURMA ROPE BRIDGE - ROPE TENSIONERS
DO NOT FIT TENSIONERS. ROPES TO BE FITTED DIRECTLY ONTO THE SUPPORT FRAME.

SECURING THE BURMA ROPE BRIDGE
THE TOP AND BOTTOM ROPES ARE TO BE SECURED DIRECT TO THE MAIN FRAME VIA THE THIMBLE EYES AND TO A BOTTLE SCREW TO D OR BOW (PREFERRED) GALVANISED STEEL OR ALLOY SHACKLES.
NB, IF INTRODUCED, THE TOP AND BOTTOM ROPES AND GUIDE RAIL WILL NEED TO BE SHORTENED.

Pea-shingle impact absorbing surface
(min depth 300mm)

Anchor point for descent glide rope
(attached to shackle house in pit)

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OBSTACLE COURSE DRAWINGS

OBSTACLE A16 - BURMA BRIDGE
(JSP 315 SCALE 44, ANNEX A, SERIAL 16)
COURSE TYPE A

Drawing Title: _____

Scale at A3: _____

Project No.	Office	Type	Drawing No.	Revision
E008949	35	04	E8949/DE/A16	C

Approval: INFORMATION TENDER CONTRACT CONSTRUCTION

Rev	Description	By	Chk	App	Date
B	CROSS-REFERENCE TO SCALE 44 AMENDED	LW	ACR	ACR	JUNE 07
C	TAKE OFF AREAS CHANGED TO ASTROTURF OR WETPOUR RUBBER SURFACING	SC	SP	SP	FEB 09

NOTES:

PROTECTIVE RUBBER SHEETING TO BE APPLIED TO ALL EXPOSED EDGES.

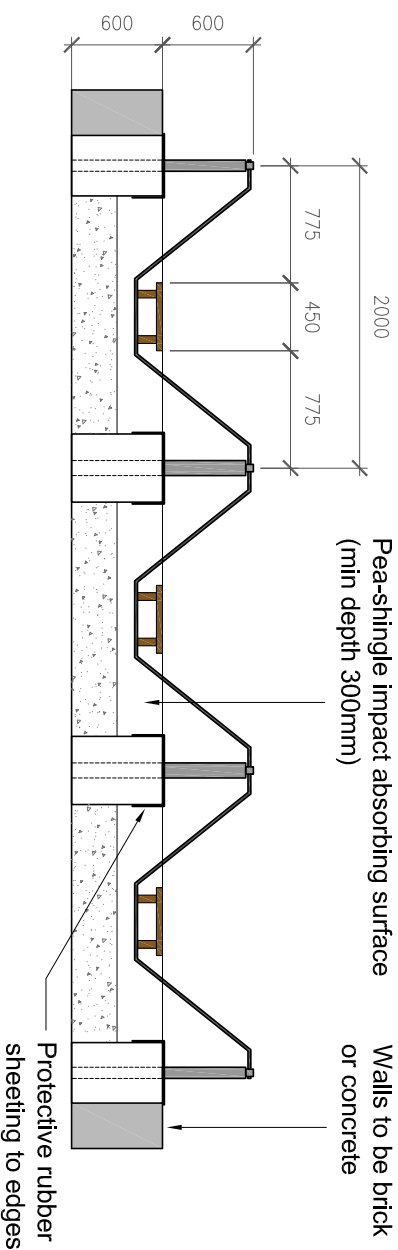
SWING BRIDGES MUST NOT BE ABLE TO TOUCH THE WALL.

NOTES:

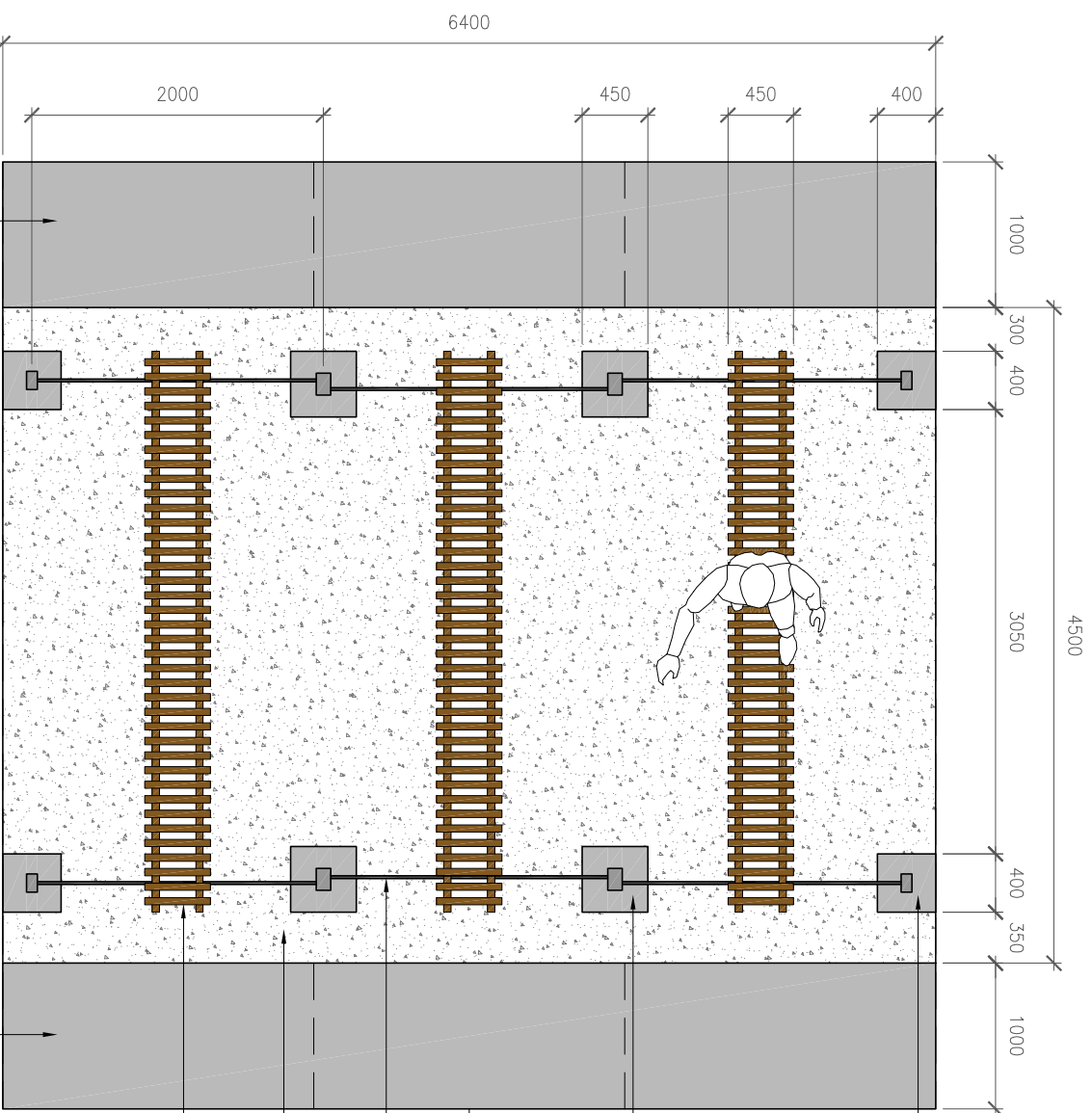
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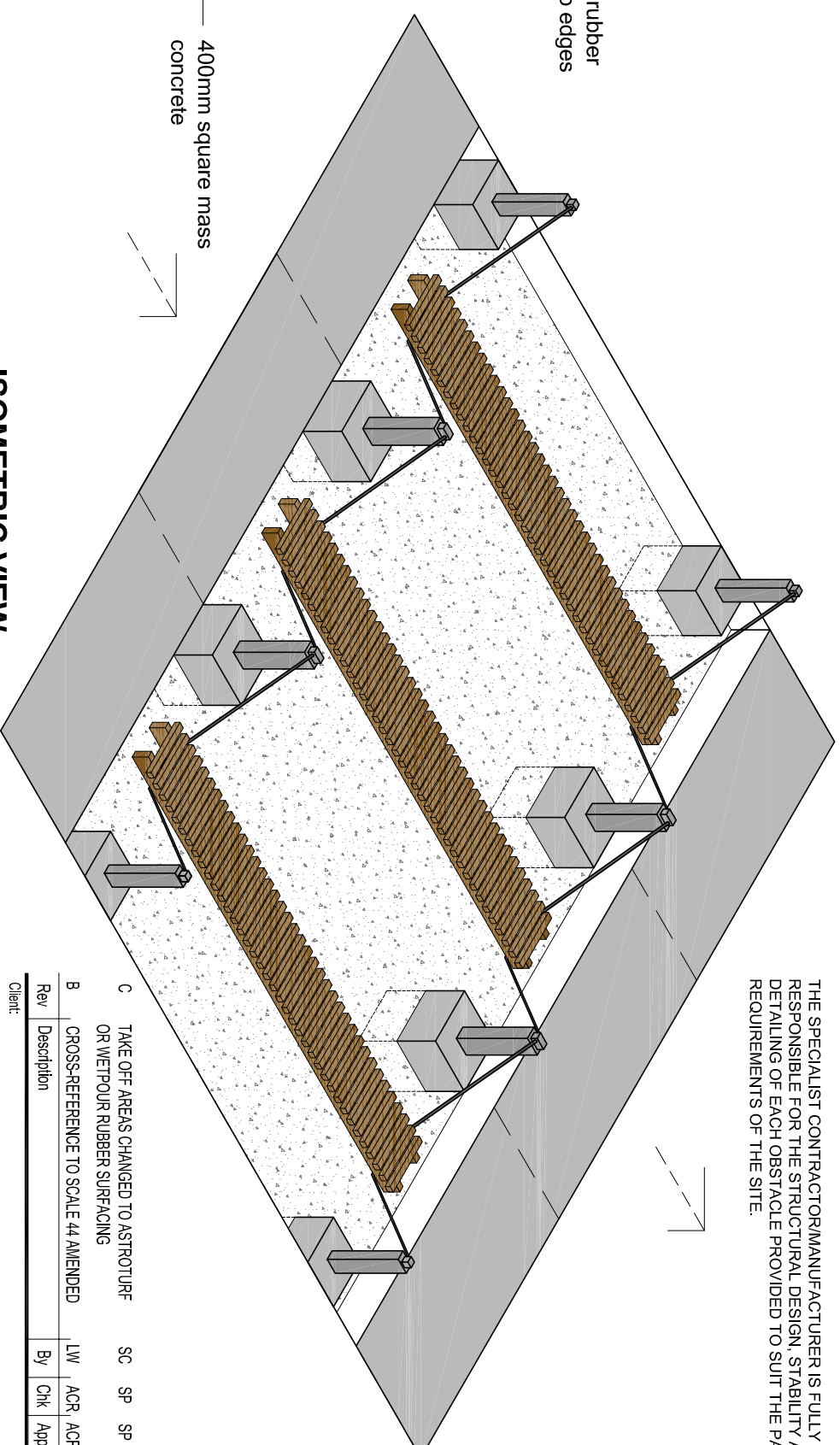
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SECTION



ISOMETRIC VIEW



- 450mm square mass concrete
- 450mm square mass concrete
- 19mm dia MS rod
- Pea-shingle impact absorbing surface (min depth 300mm)
- 450mm wide duckboards made from 2 no. 125mm x 50mm joist and 50mm x 40mm battens spaced 50mm apart. (Duckboards to be applied with a non-slip finish)



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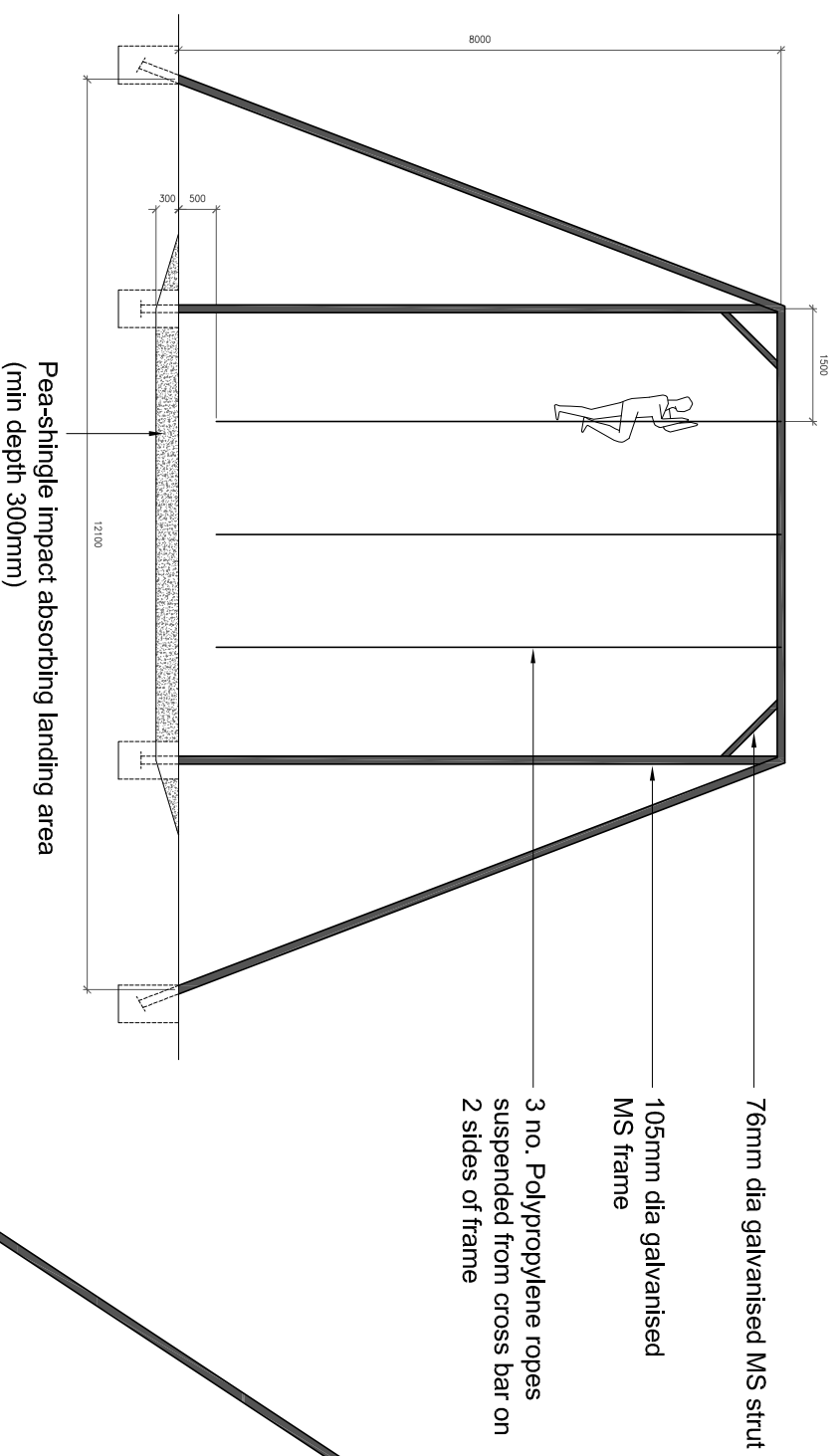
OBSTACLE COURSE DRAWINGS

Drawing Title:
OBSTACLE A17 - SWINGING DUCKBOARDS
(JSP 315 SCALE 44, ANNEX A, SERIAL 17)
COURSE TYPE A

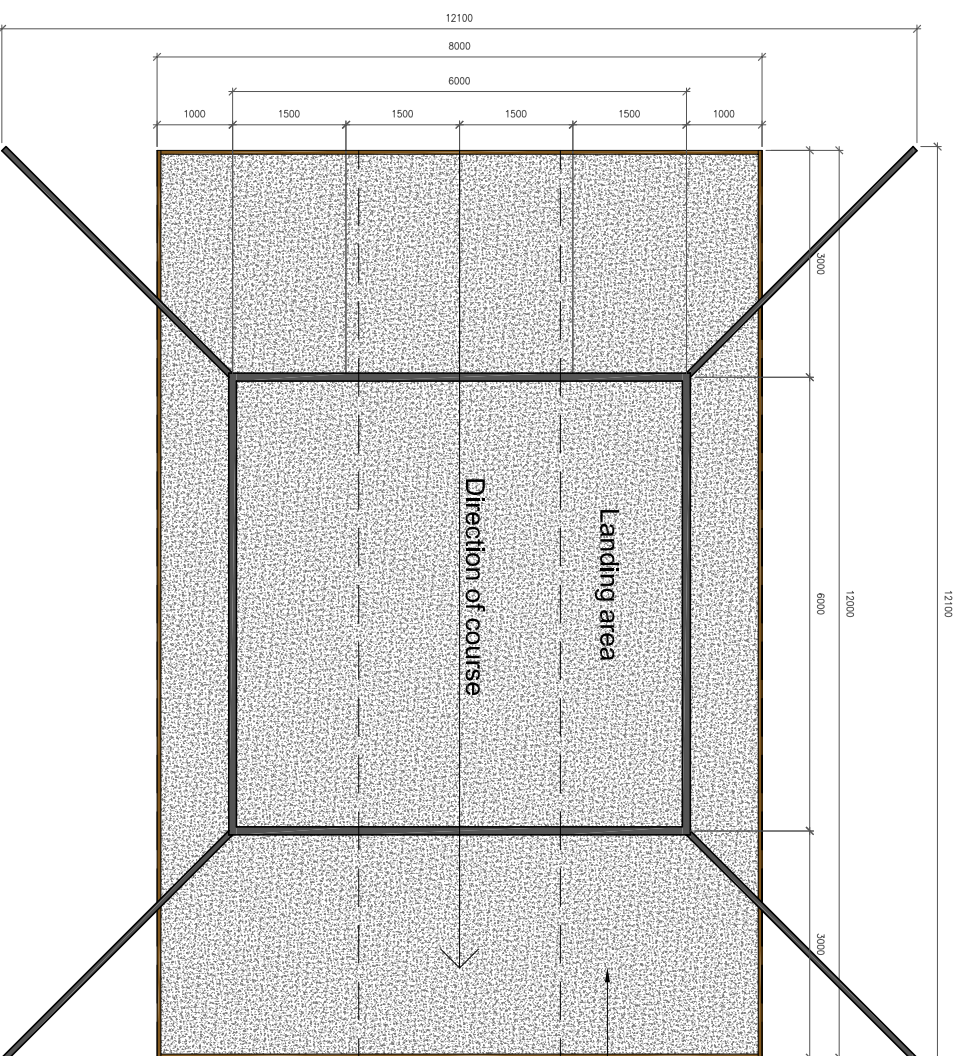
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1:30	LW	01/08/06	SP	01/08/06	ACR	01/08/06
Project No.	Office	Type	Drawing No.	Revision		
E008949	35	04	E8949/DE/A17	C		
APPROVAL <input type="checkbox"/>	INFORMATION <input checked="" type="checkbox"/>	TENDER <input type="checkbox"/>	CONTRACT <input type="checkbox"/>	CONSTRUCTION <input type="checkbox"/>		

NOTES:

THIS DRAWING IS TO BE READ IN ACCORDANCE WITH THE GENERAL DESIGN GUIDANCE NOTES INDICATED ON E8949/DE/A/B01
 THE SIZES AND DIAMETERS OF OBSTACLE COMPARTMENTS INDICATED ON THIS DRAWING ARE NECESSARY TO MEET THE USERS OPERATIONAL TRAINING REQUIREMENTS AND ARE NOT INTENDED TO INDICATE STRUCTURAL DESIGN REQUIREMENTS.
 THE SPECIALIST CONTRACTORMANUFACTURER IS FULLY RESPONSIBLE FOR THE STRUCTURAL DESIGN, STABILITY AND DETAILING OF EACH OBSTACLE PROVIDED TO SUIT THE PARTICULAR REQUIREMENTS OF THE SITE.

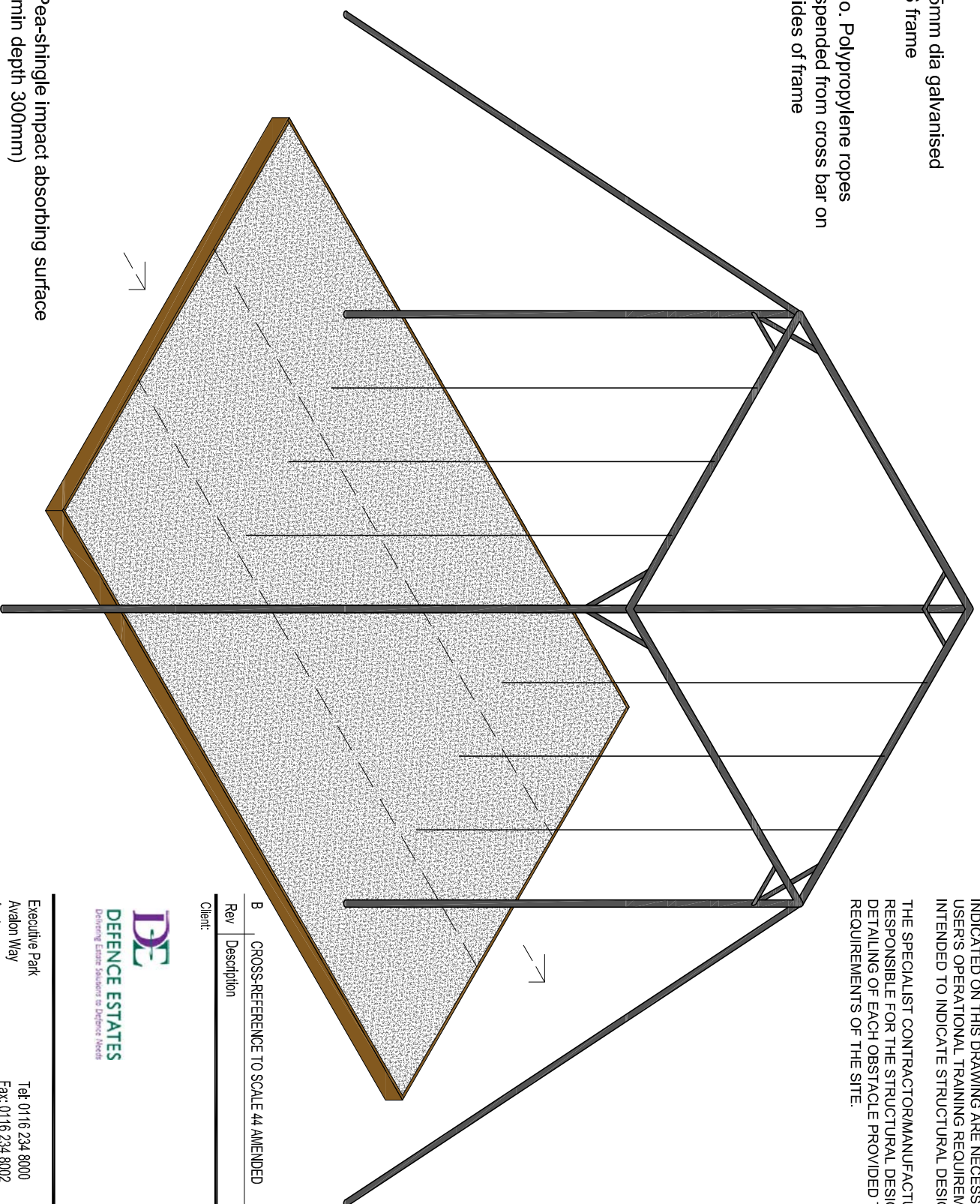


SECTION



PLAN

Pea-shingle impact absorbing surface
(min depth 300mm)



ISOMETRIC VIEW

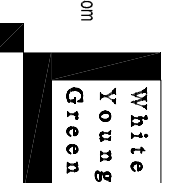
Rev	Description	By	Chk	App	Date
B	CROSS-REFERENCE TO SCALE 44 AMENDED	LW	ACR	ACR	JUNE07

Client:



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 LE7 7GR
 Tel: 0116 234 8000
 Fax: 0116 234 8002
 e-mail: enviro.leicester@wyg.com

Environmental



Civil Structural Mechanical Electrical Process Rail Traffic Environmental Project Management
 Project:

OBSTACLE COURSE DRAWINGS

Drawing Title:
OBSTACLE A18 - CLIMBING ROPES
 (JSP 315 SCALE 44, ANNEX A, SERIAL 18)
COURSE TYPE A

Scale at A3	Drawn By	Date	Checked By	Date	Approved By	Date
1:100	LW	01/08/06	SPP	01/08/06	ACR	01/08/06
Project No.	Office	Type	Drawing No.	Revision		
E008949	35	04	E8949/DE/A/18	B		

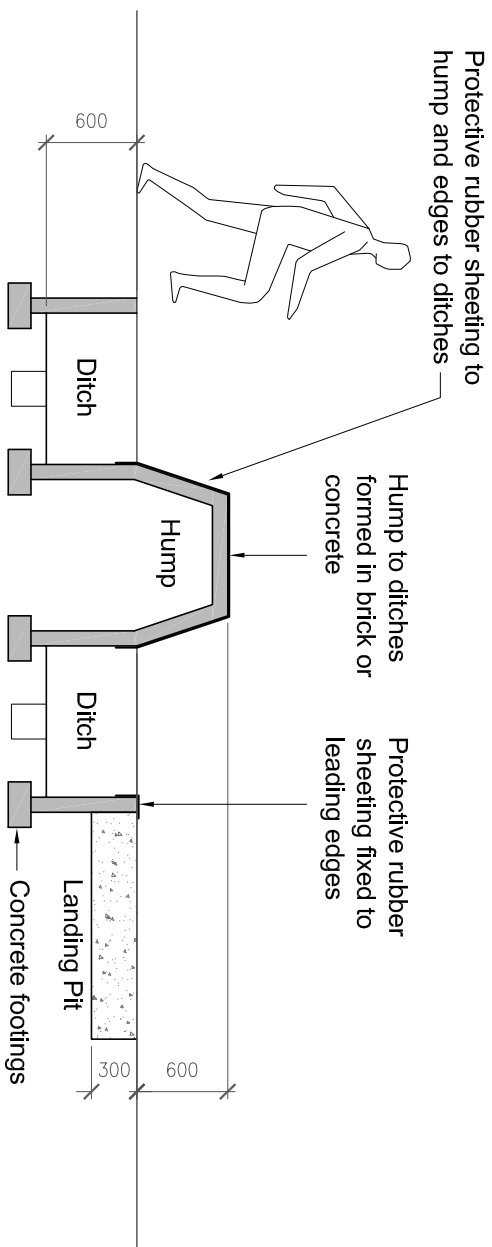
APPROVAL INFORMATION TENDER CONTRACT CONSTRUCTION

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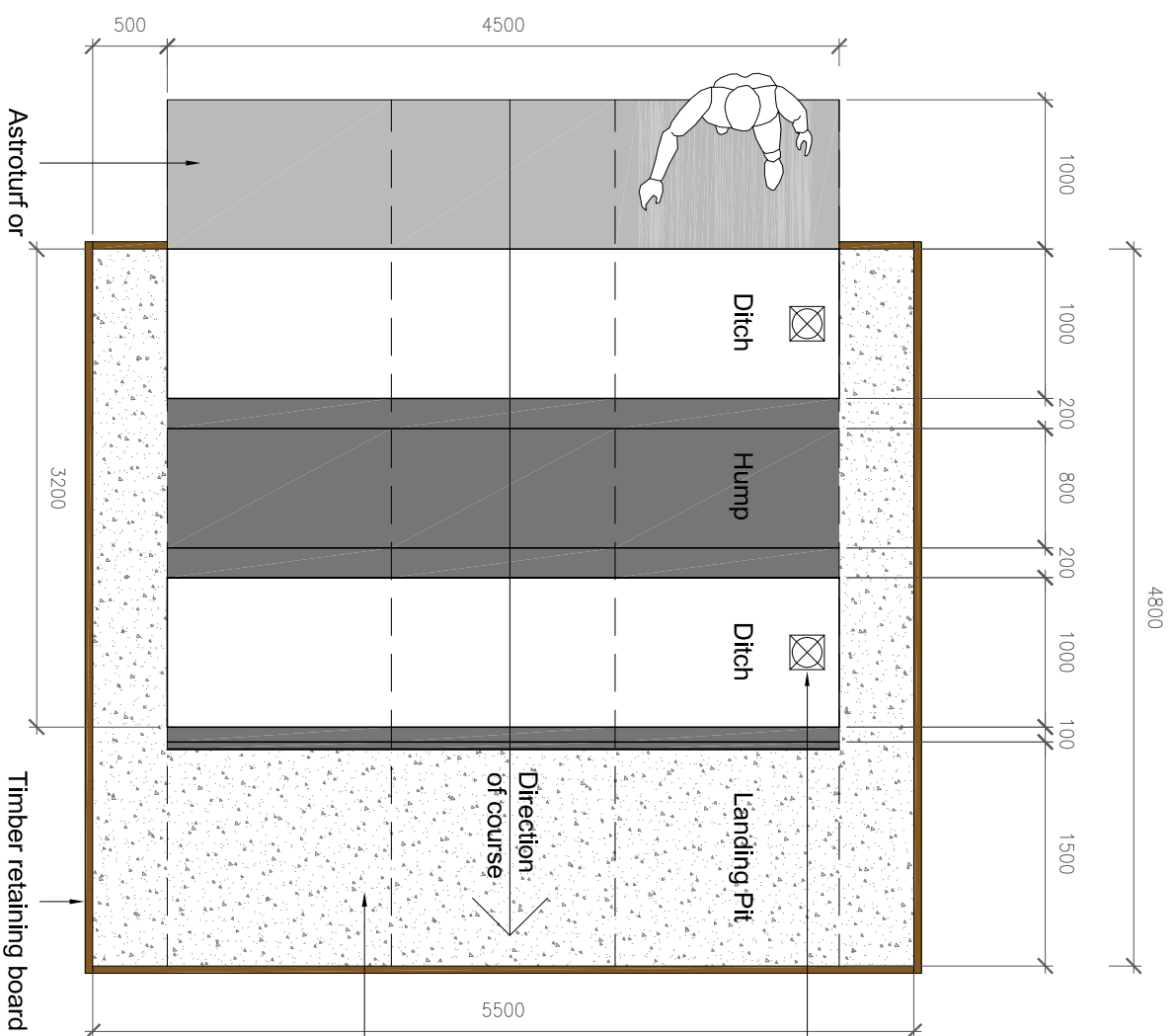
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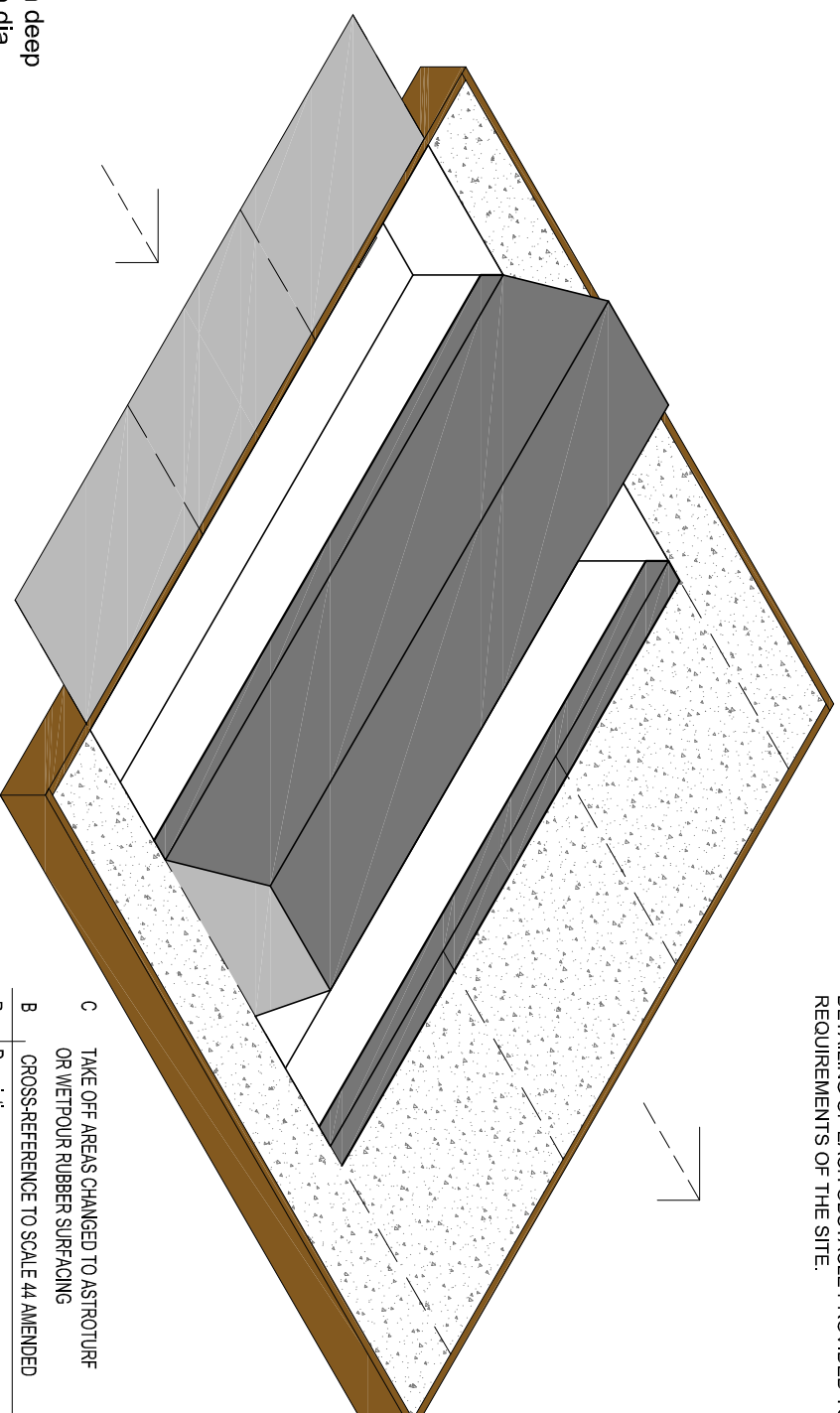
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SECTION



PLAN



ISOMETRIC VIEW

230mm² x 230mm deep sump with 100mm dia drain to ditch or soakaway with removable plug to facilitate ditch drainage

Pea-shingle impact absorbing surface (min depth 300mm)



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**White
Young
Green**

Environmental

Client: Civil Structural Mechanical Electrical Process Rail Traffic Environmental Project Management
Project:

OBSTACLE COURSE DRAWINGS

Drawing Title:
OBSTACLE A2 - DOUBLE DITCH
(JSP 315 SCALE 44, ANNEX A, SERIAL 2)
COURSE TYPE A

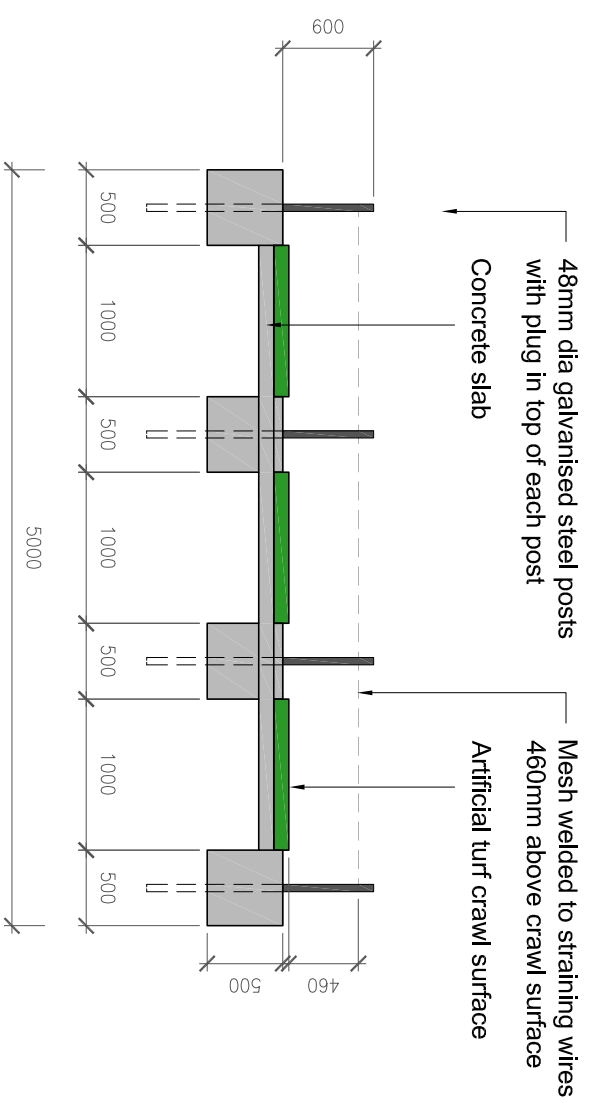
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Project No.	Office	Type	Drawing No.	Revision		
E008949	35	04	E8949/DE/A2	C		
APPROVAL	INFORMATION	TENDER	CONTRACT	CONSTRUCTION		
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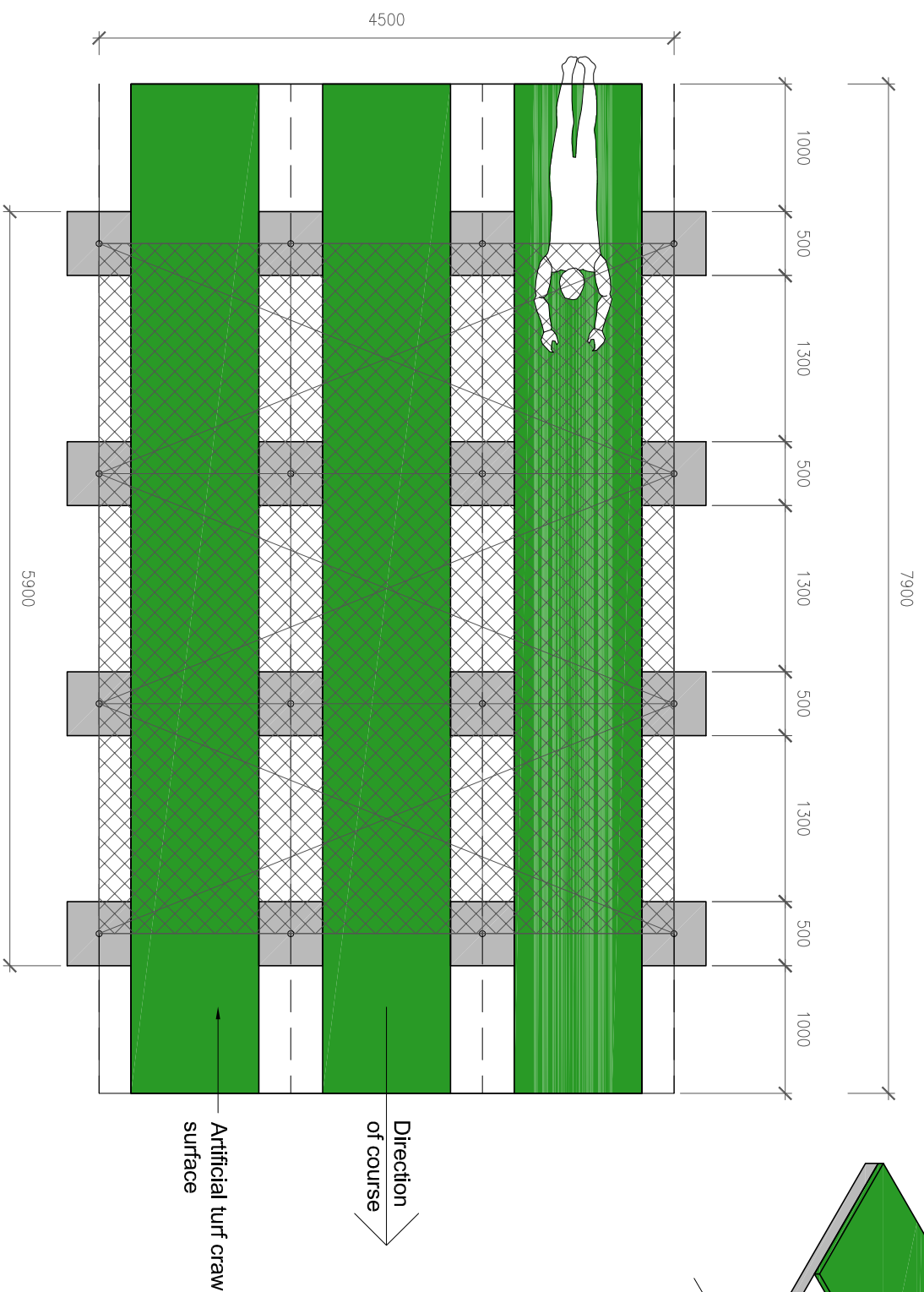
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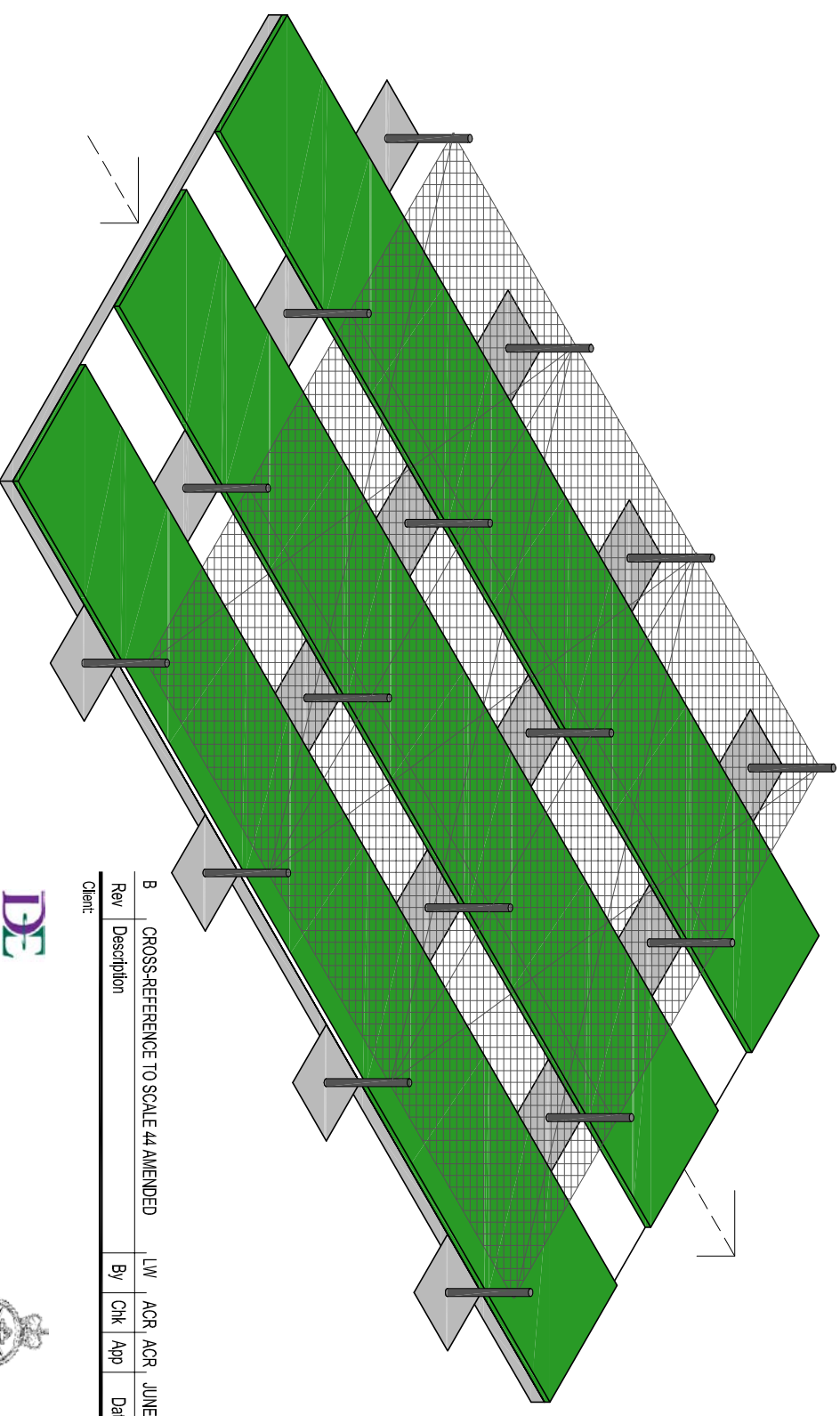
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SECTION FACING DIRECTION OF COURSE



PLAN



ISOMETRIC VIEW

Rev	Description	By	Chk	App	Date
B	CROSS-REFERENCE TO SCALE 44 AMENDED	LW	ACR	ACR	JUNE'07

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Environmental

Project: Civil Structural Mechanical Electrical Process Rail Traffic Environmental Project Management

OBSTACLE COURSE DRAWINGS

Drawing Title:
OBSTACLE A3 - CRAWL
(JSP 315 SCALE 44, ANNEX A, SERIAL 3)
COURSE TYPE A

Scale at A3	Drawn By	Date	Checked By	Date	Approved By	Date
1:50	LW	01/08/06	SPP	07/08/06	ACR	07/08/06

Project No.	Office	Type	Drawing No.	Revision
E008949	35	04	E8949/DE/A3	B

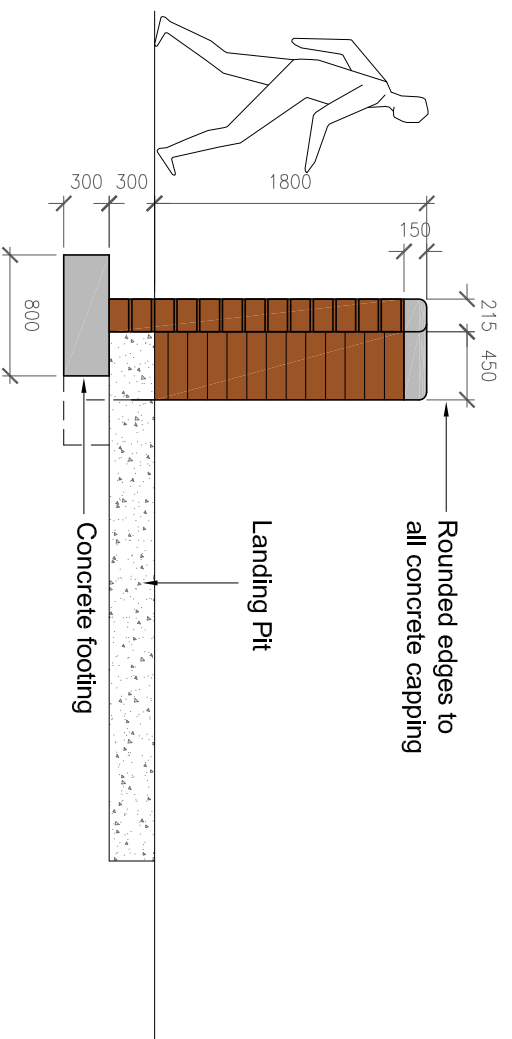
APPROVAL INFORMATION TENDER CONTRACT CONSTRUCTION

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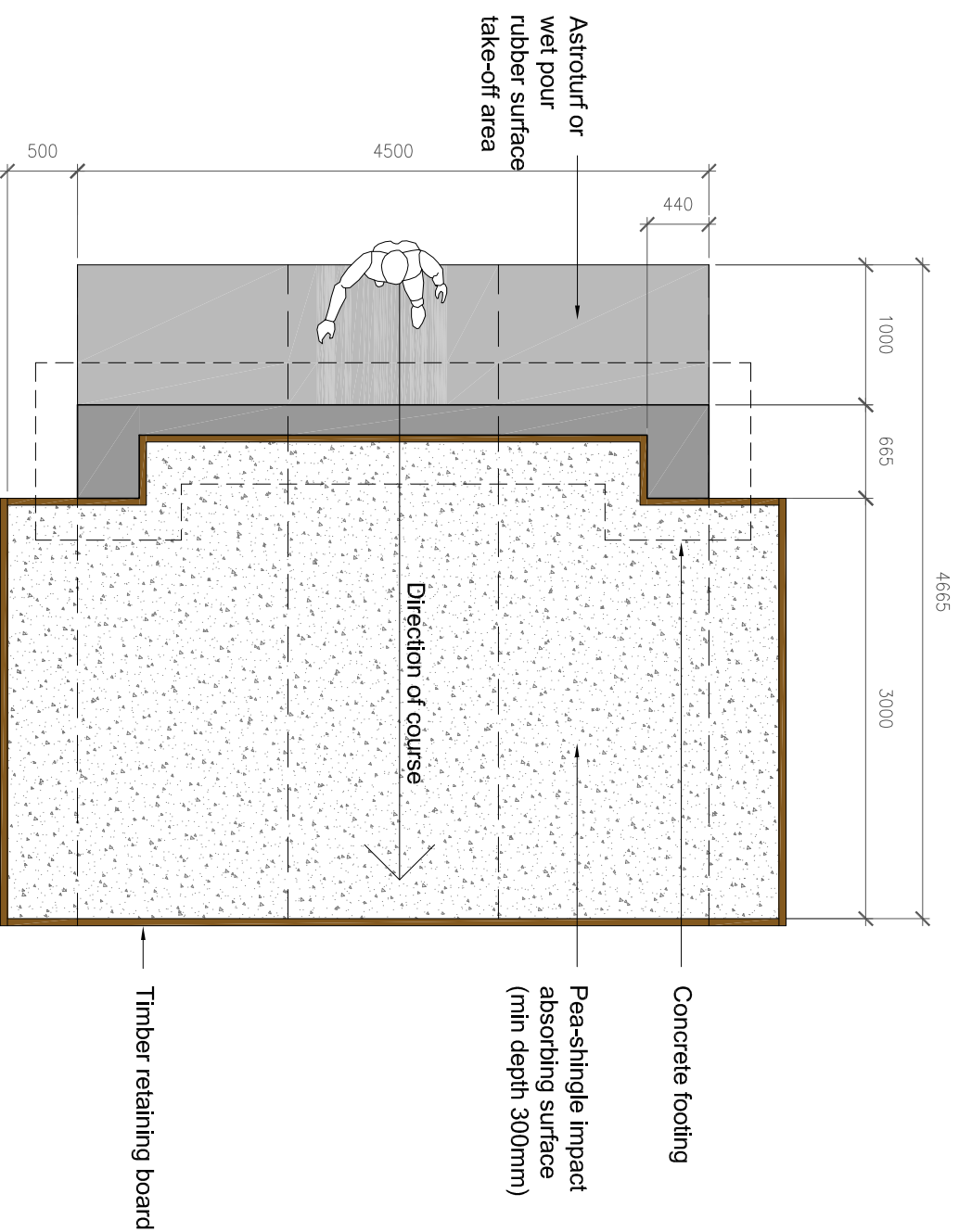
THIS DRAWING IS TO BE READ IN ACCORDANCE WITH THE GENERAL DESIGN GUIDANCE NOTES INDICATED ON E8949/DE/AB01

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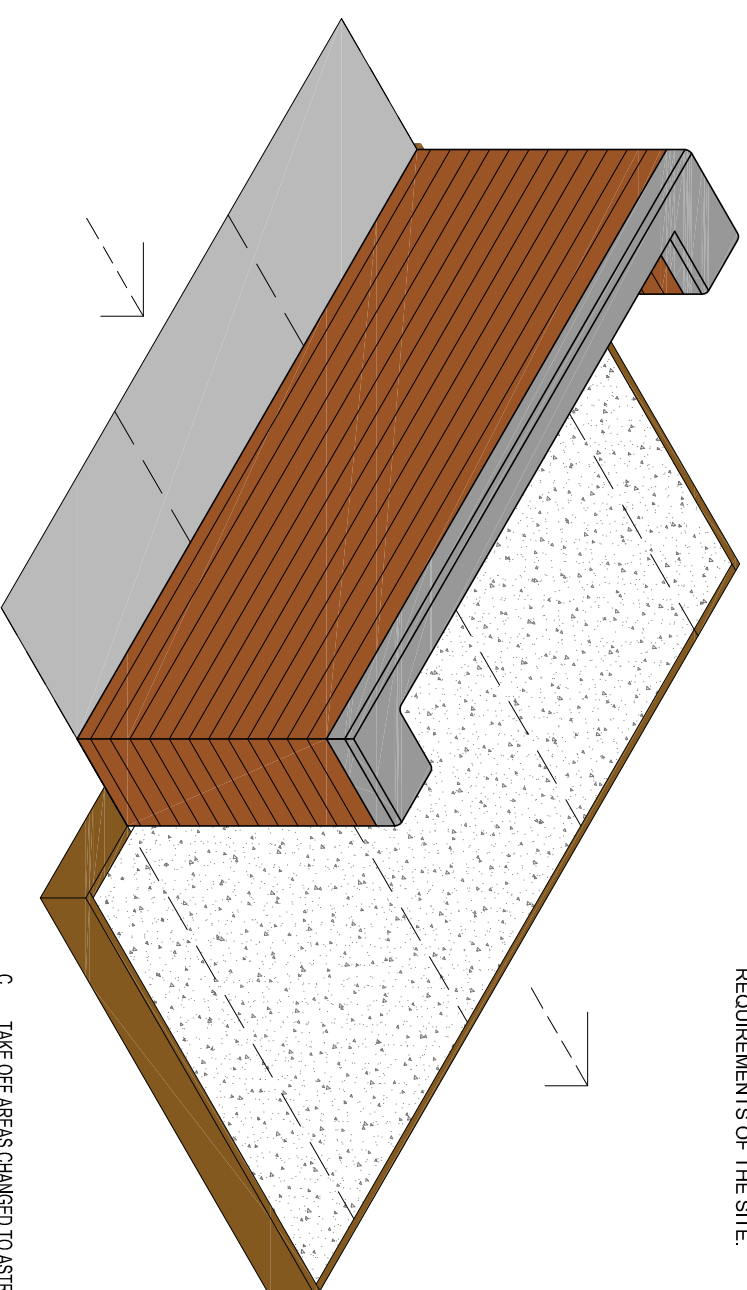
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SECTION



PLAN



ISOMETRIC VIEW

C	TAKE OFF AREAS CHANGED TO ASTROTURF OR WETPOUR RUBBER SURFACING	SC	SP	SP	FEB 09
B	CROSS-REFERENCE TO SCALE 44 AMENDED	LW	ACR	ACR	JUNE 07
Rev	Description	By	Chk	App	Date
Client:					



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White Young Green

Environmental

Civil Structural Mechanical Electrical Process Rail Traffic Environmental Project Management

OBSTACLE COURSE DRAWINGS

Drawing Title:
OBSTACLE A4 - SINGLE WALL (LOW)
(JSP 315 SCALE 44, ANNEX A, SERIAL 4)
COURSE TYPE A

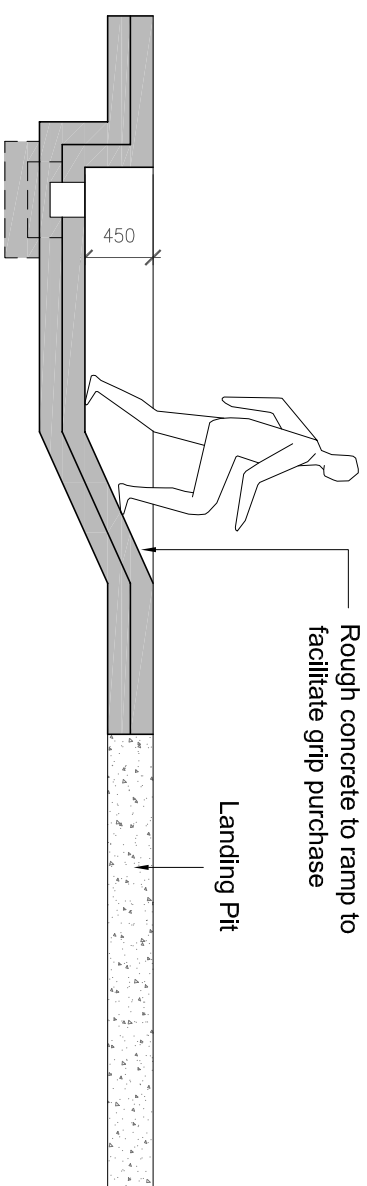
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Project No.	Office	Type	Drawing No.	Revision		
E008949	35	04	E8949/DE/A4	C		
APPROVAL	INFORMATION	TENDER	CONTRACT	CONSTRUCTION		
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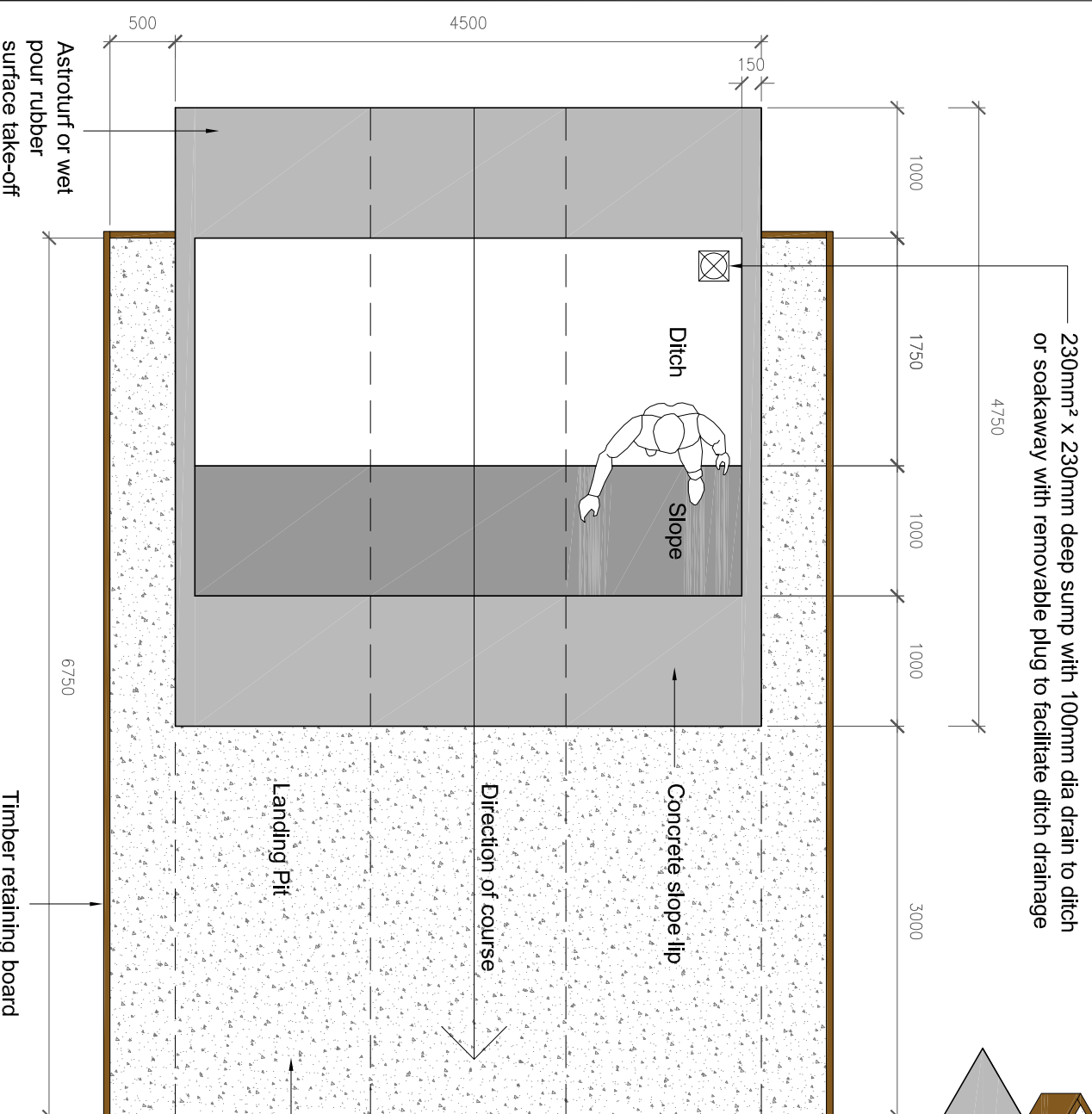
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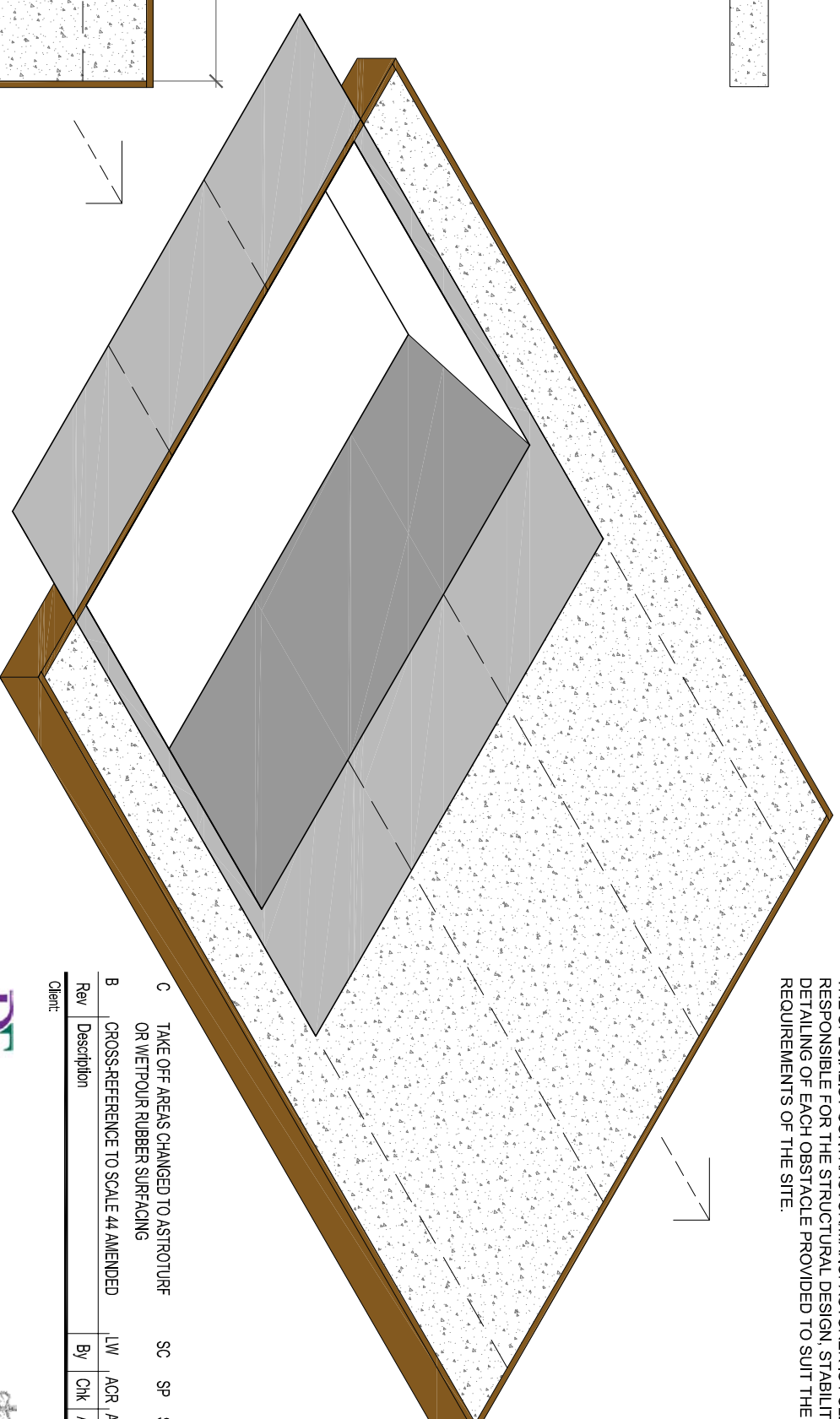
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SECTION



PLAN



ISOMETRIC VIEW

C	TAKE OFF AREAS CHANGED TO ASTROTURF OR WETPOUR RUBBER SURFACING	SC	SP	SP	FEB 09
B	CROSS-REFERENCE TO SCALE 44 AMENDED	LW	ACR	ACR	JUNE 07
Rev	Description	By	Chk	App	Date

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OBSTACLE COURSE DRAWINGS

Drawing Title:
OBSTACLE A5 - DRY DITCH
(JSP 315 SCALE 44, ANNEX A, SERIAL 5)
COURSE TYPE A

Scale at A3	Drawn By	Date	Checked By	Date	Approved By	Date
1:50	LW	01/08/06	SPP	01/08/06	ACR	01/08/06
Project No.	Office	Type	Drawing No.	Revision		
E008949	35	04	E8949/DE/A5	C		

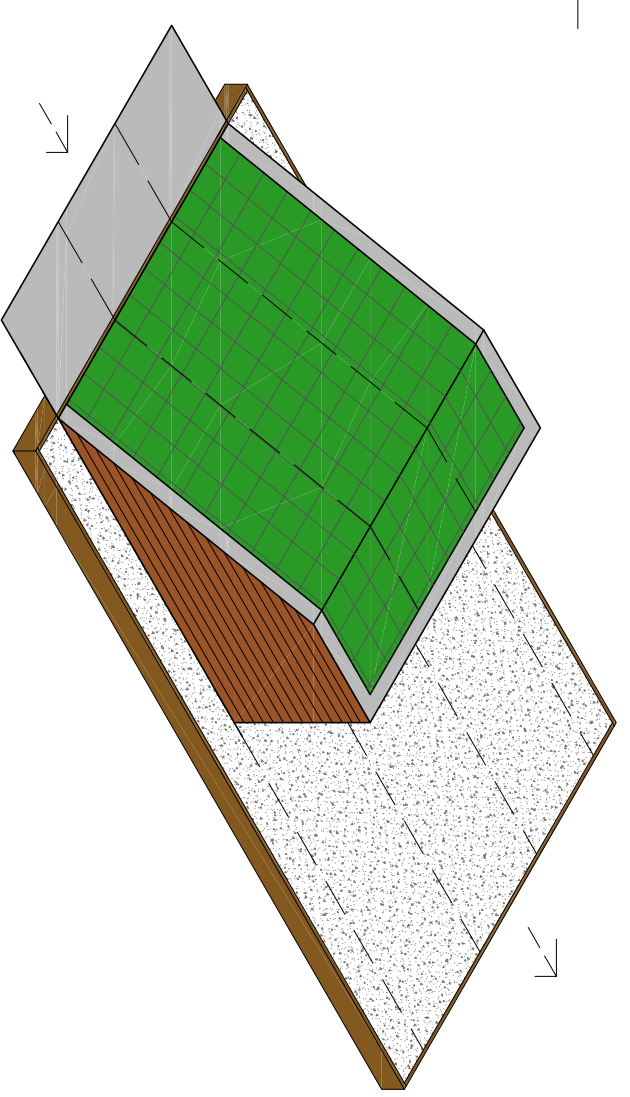
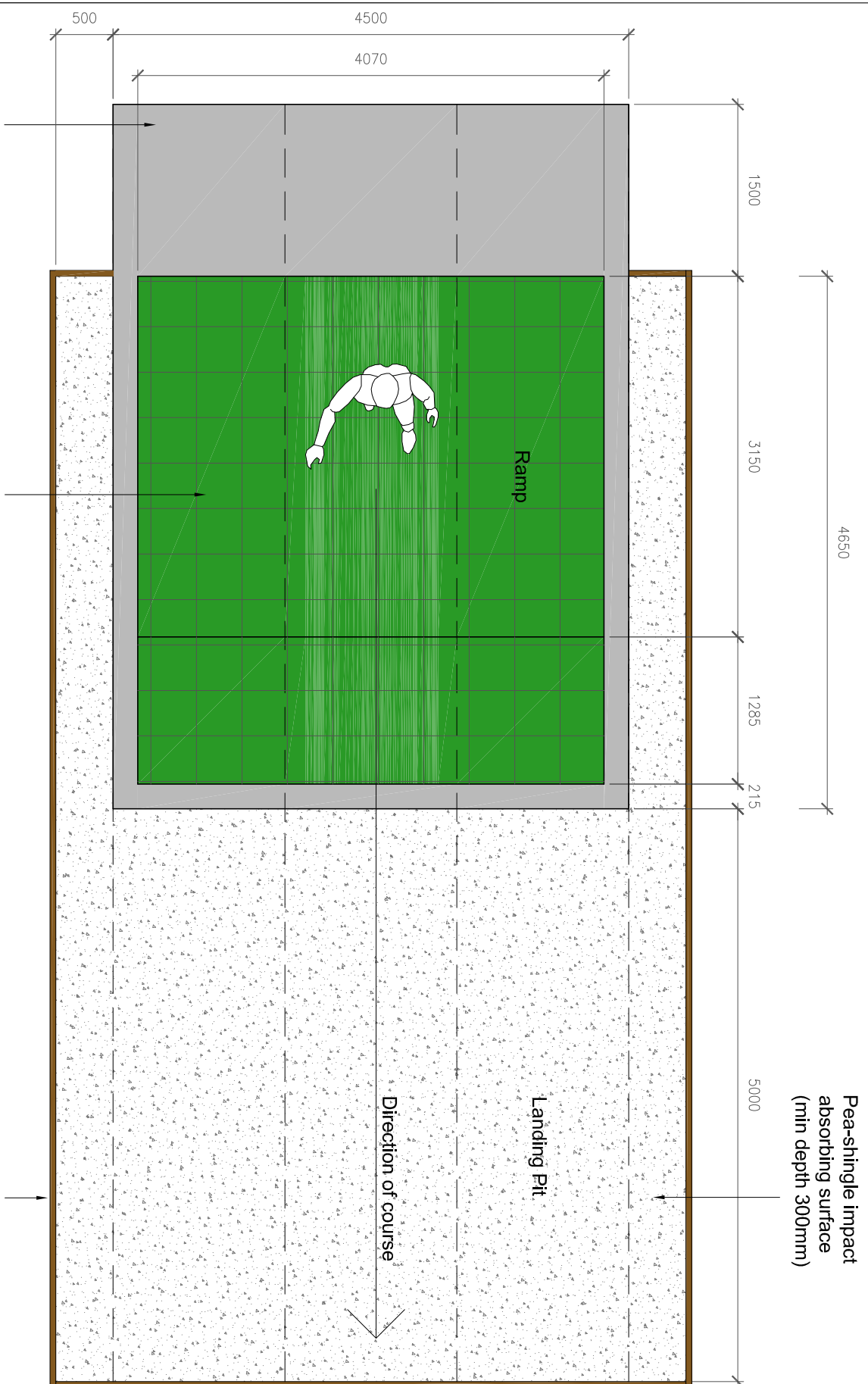
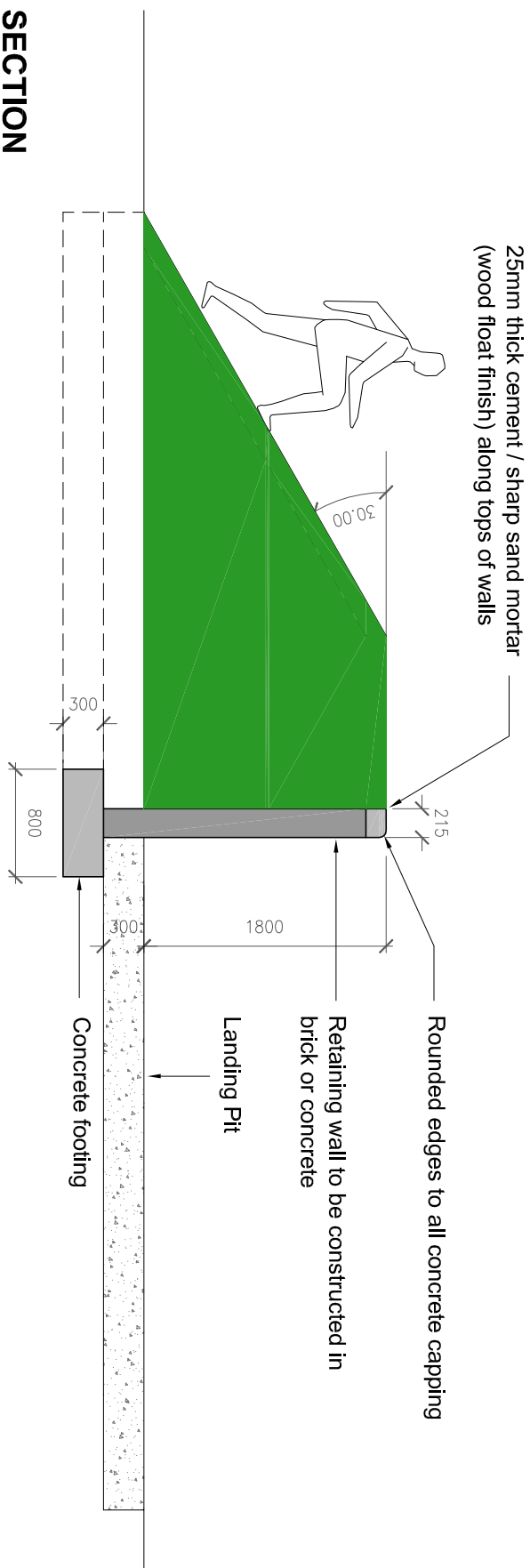
APPROVAL INFORMATION TENDER CONTRACT CONSTRUCTION

NOTES:

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ISOMETRIC VIEW

Scale 1:100

C	TAKE OFF AREAS CHANGED TO ASTROTURF OR WETPOUR RUBBER SURFACING	SC	SP	SP	FEB 09
B	CROSS-REFERENCE TO SCALE 44 AMENDED	LW	ACR	ACR	JUNE 07
Rev	Description	By	Chk	App	Date
Client:					



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**White
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Green**

Environmental

Civil Structural Mechanical Electrical Process Rail Traffic Environmental Project Management

OBSTACLE COURSE DRAWINGS

Drawing Title:
OBSTACLE A6 - RAMP
(JSP 315 SCALE 44, ANNEX A, SERIAL 6)
COURSE TYPE A

Scale at A3	Drawn By	Date	Checked By	Date	Approved By	Date
1:50	LW	01/08/06	SPP	01/08/06	ACR	01/08/06
Project No.	Office	Type	Drawing No.	Revision		
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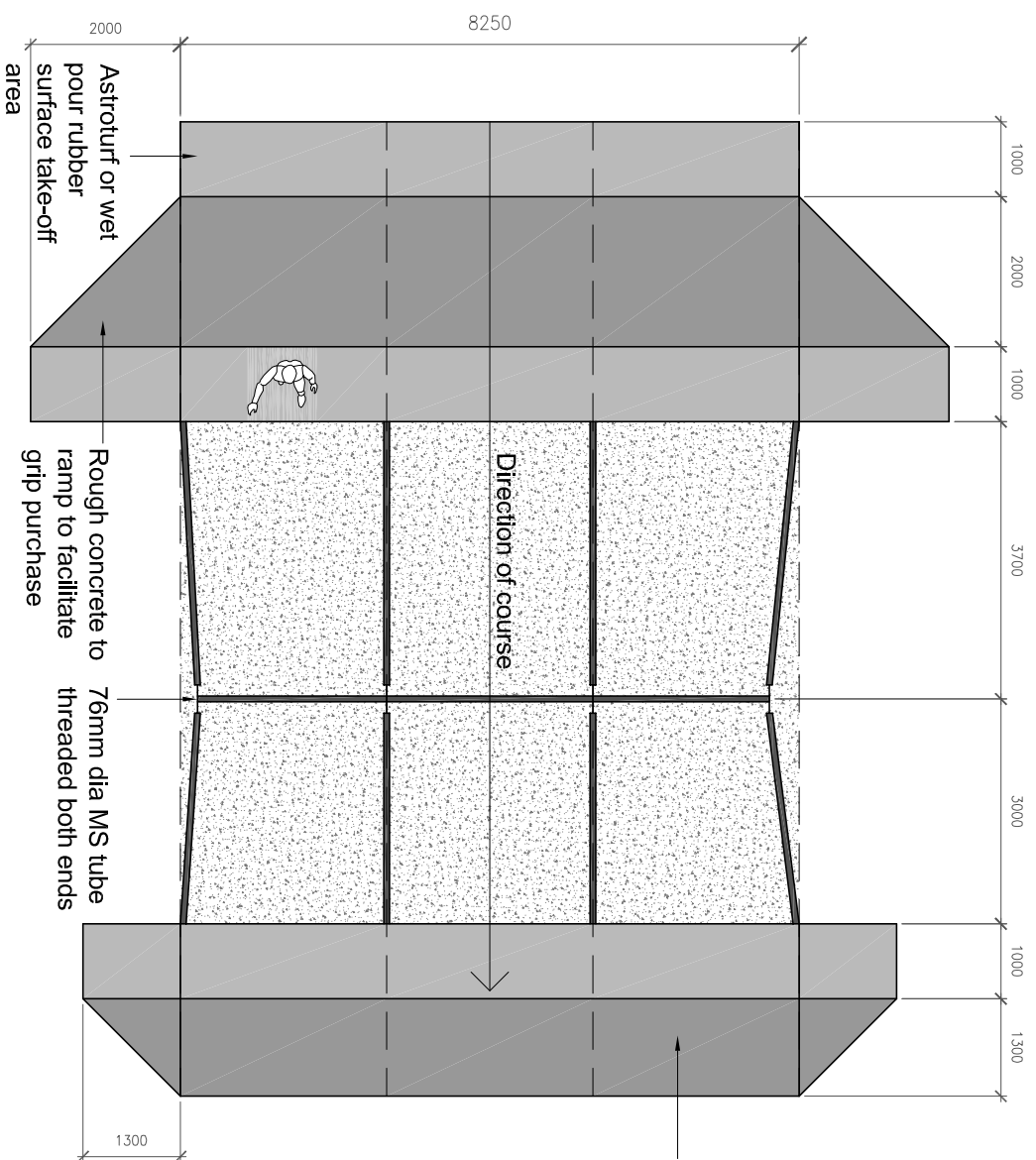
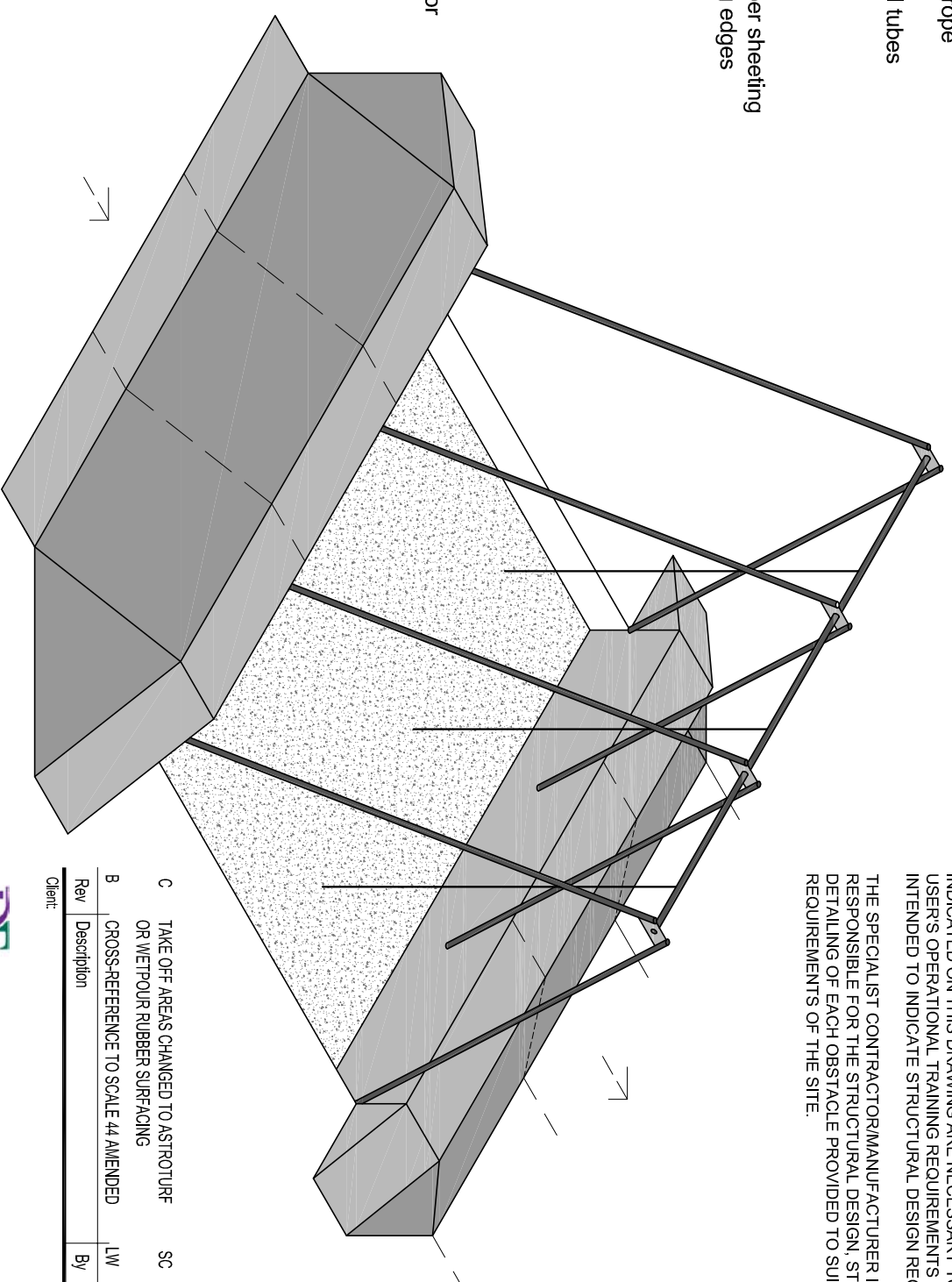
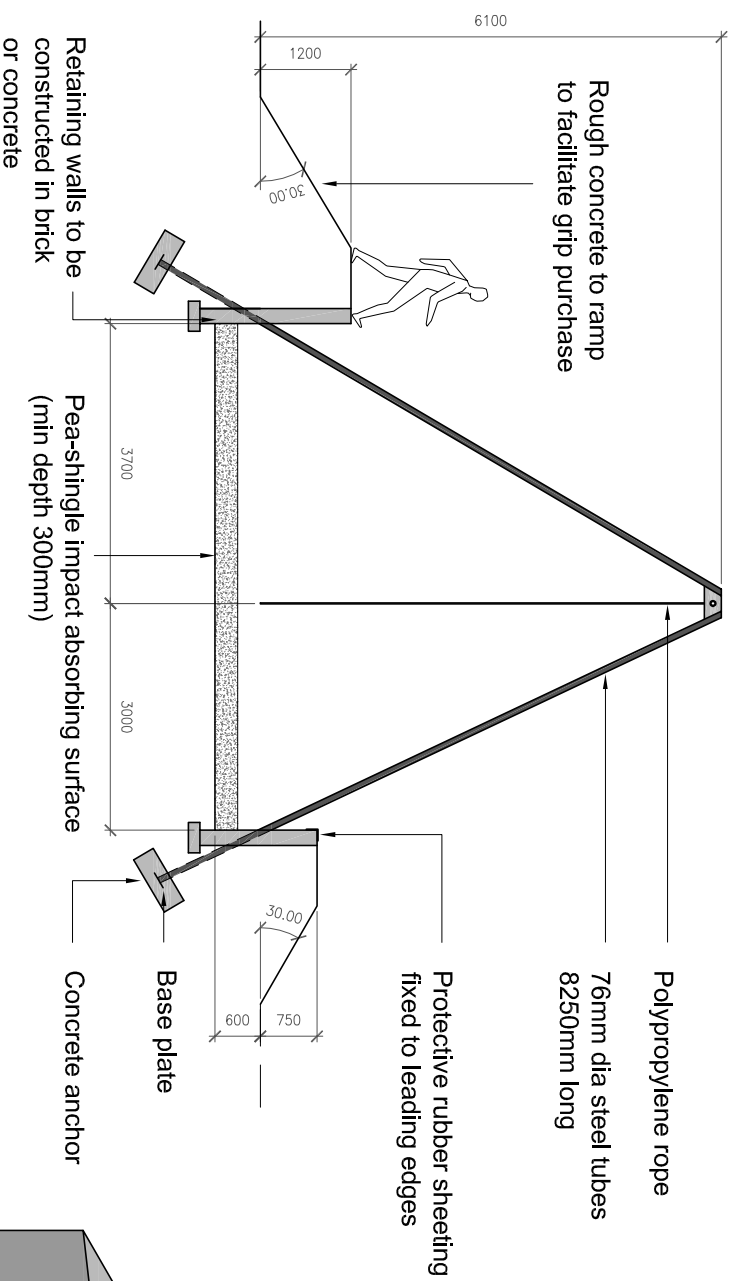
APPROVAL INFORMATION TENDER CONTRACT CONSTRUCTION

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ISOMETRIC VIEW

Rev	Description	By	Chk	App	Date
C	TAKE OFF AREAS CHANGED TO ASTROTURF OR WETPOUR RUBBER SURFACING	LW	ACR	ACR	JUNE 07
B	CROSS-REFERENCE TO SCALE 44 AMENDED				

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White Young Green

Environmental

Civil Structural Mechanical Electrical Process Rail Traffic Environmental Project Management

OBSTACLE COURSE DRAWINGS

Drawing Title:
OBSTACLE A7 - SWING OVER DITCH
 (JSP 315 SCALE 44, ANNEX A, SERIAL 7)
 COURSE TYPE A

Scale at A3	Drawn By	Date	Checked By	Date	Approved By	Date
1:100	LW	01/08/06	SPP	01/08/06	ACR	01/08/06
Project No.	Office	Type	Drawing No.	Revision		
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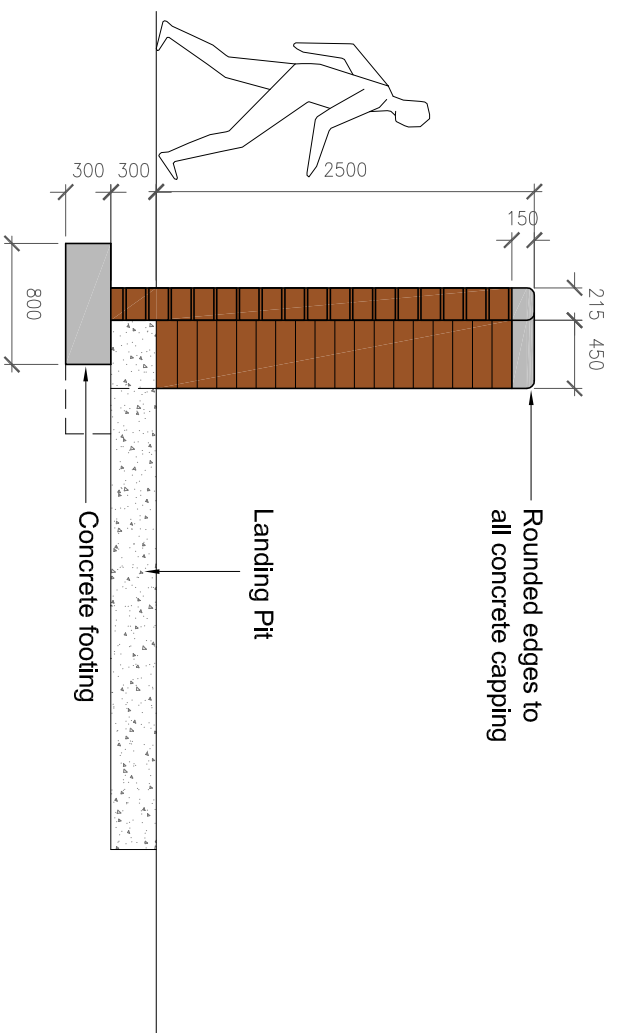
APPROVAL INFORMATION TENDER CONTRACT CONSTRUCTION

NOTES:

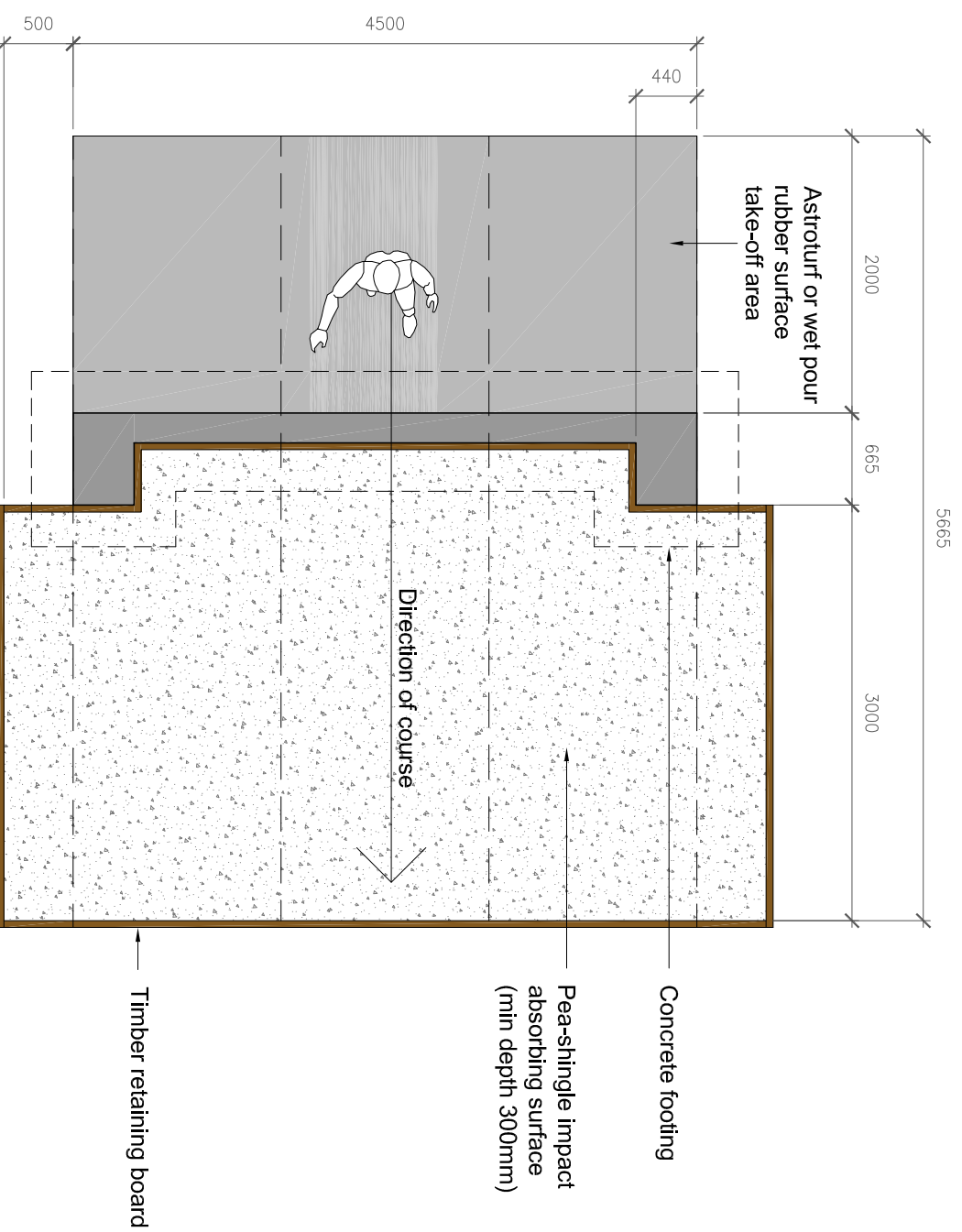
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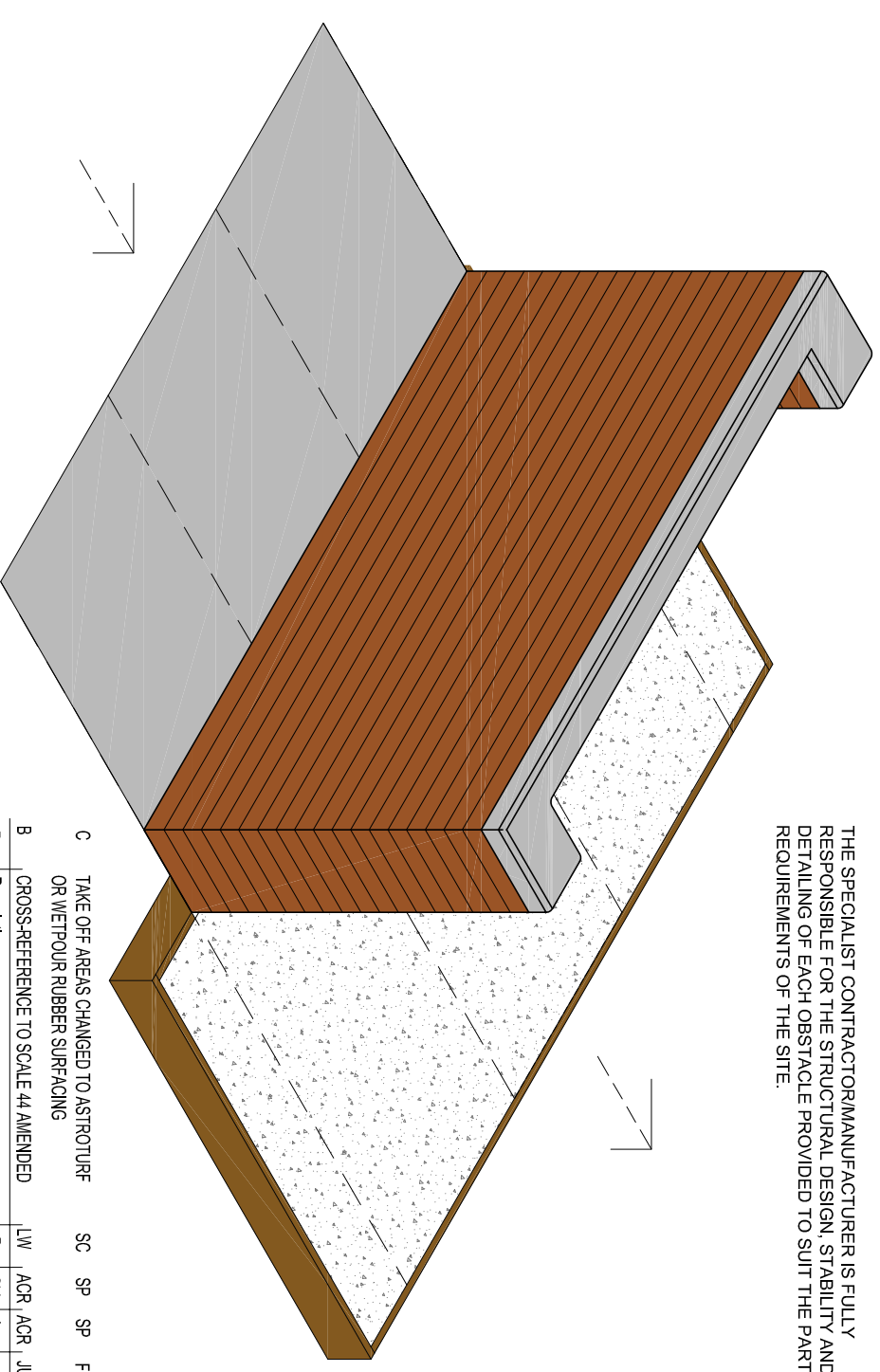
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SECTION



PLAN



ISOMETRIC VIEW

Rev	Description	By	Chk	App	Date
C	TAKE OFF AREAS CHANGED TO ASTROTURF OR WETPOUR RUBBER SURFACING	LW	ACR	SP	FEB '09
B	CROSS-REFERENCE TO SCALE 44 AMENDED	LW	ACR	ACR	JUNE'07

Client:



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Environmental

Civil Structural Mechanical Electrical Process Rail Traffic Environmental Project Management

Project:

OBSTACLE COURSE DRAWINGS

Drawing Title:
OBSTACLE A8 - SINGLE WALL (HIGH)
(JSP 315 SCALE 44, ANNEX A, SERIAL 8)
COURSE TYPE A

Scale at A3	Drawn By	Date	Checked By	Date	Approved By	Date
1:50	LW	01/08/06	SPP	01/08/06	ACR	01/08/06
Project No.	Office	Type	Drawing No.	Revision		
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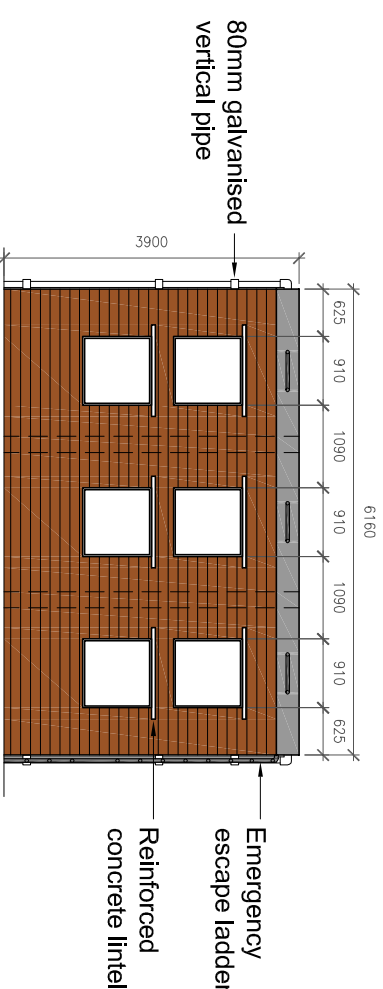
APPROVAL INFORMATION TENDER CONTRACT CONSTRUCTION

NOTES:

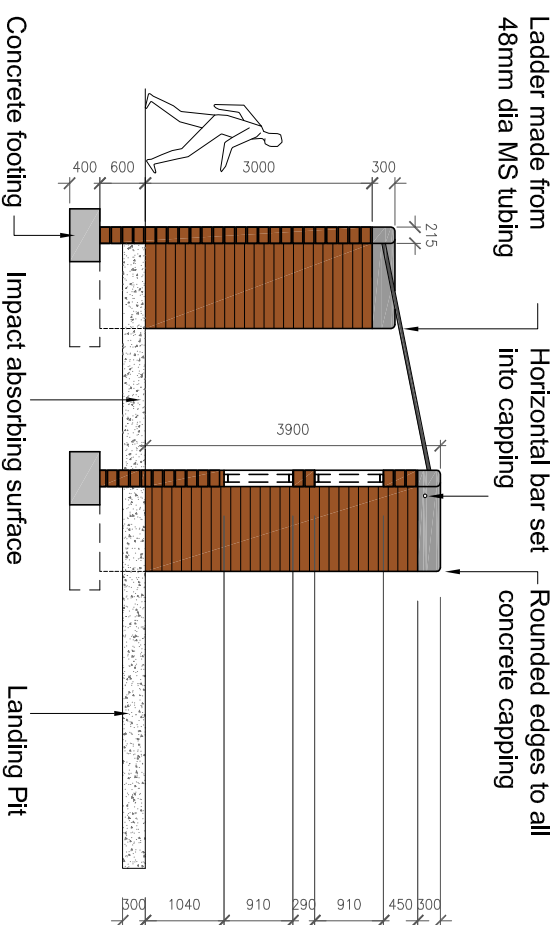
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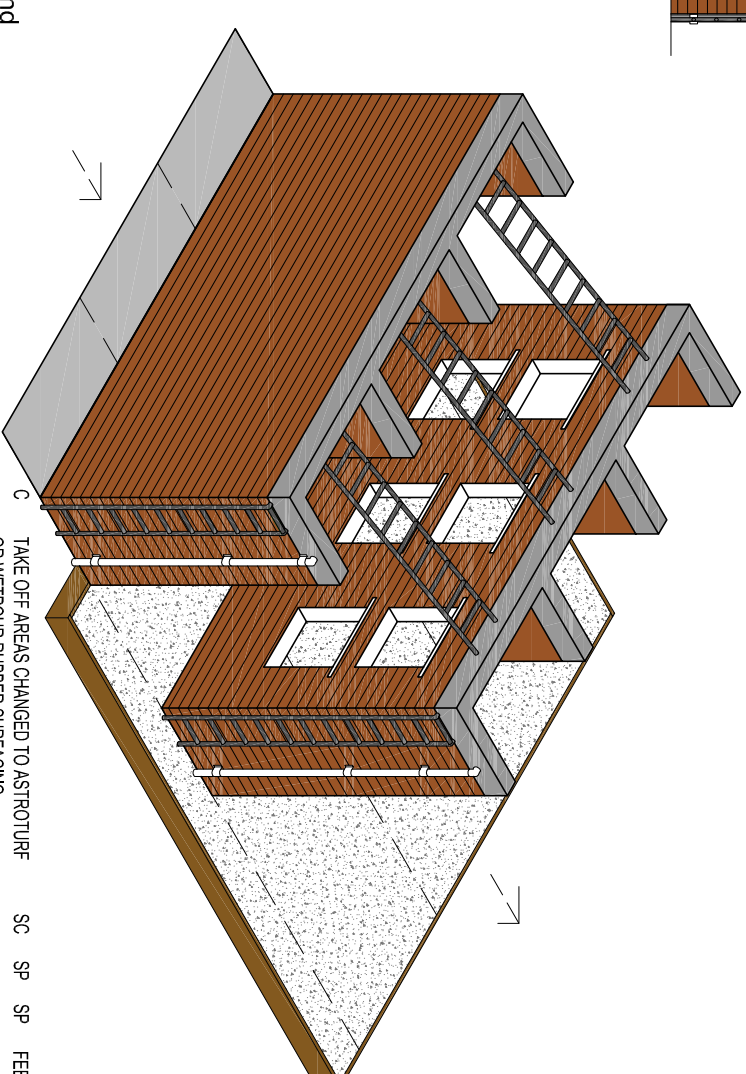
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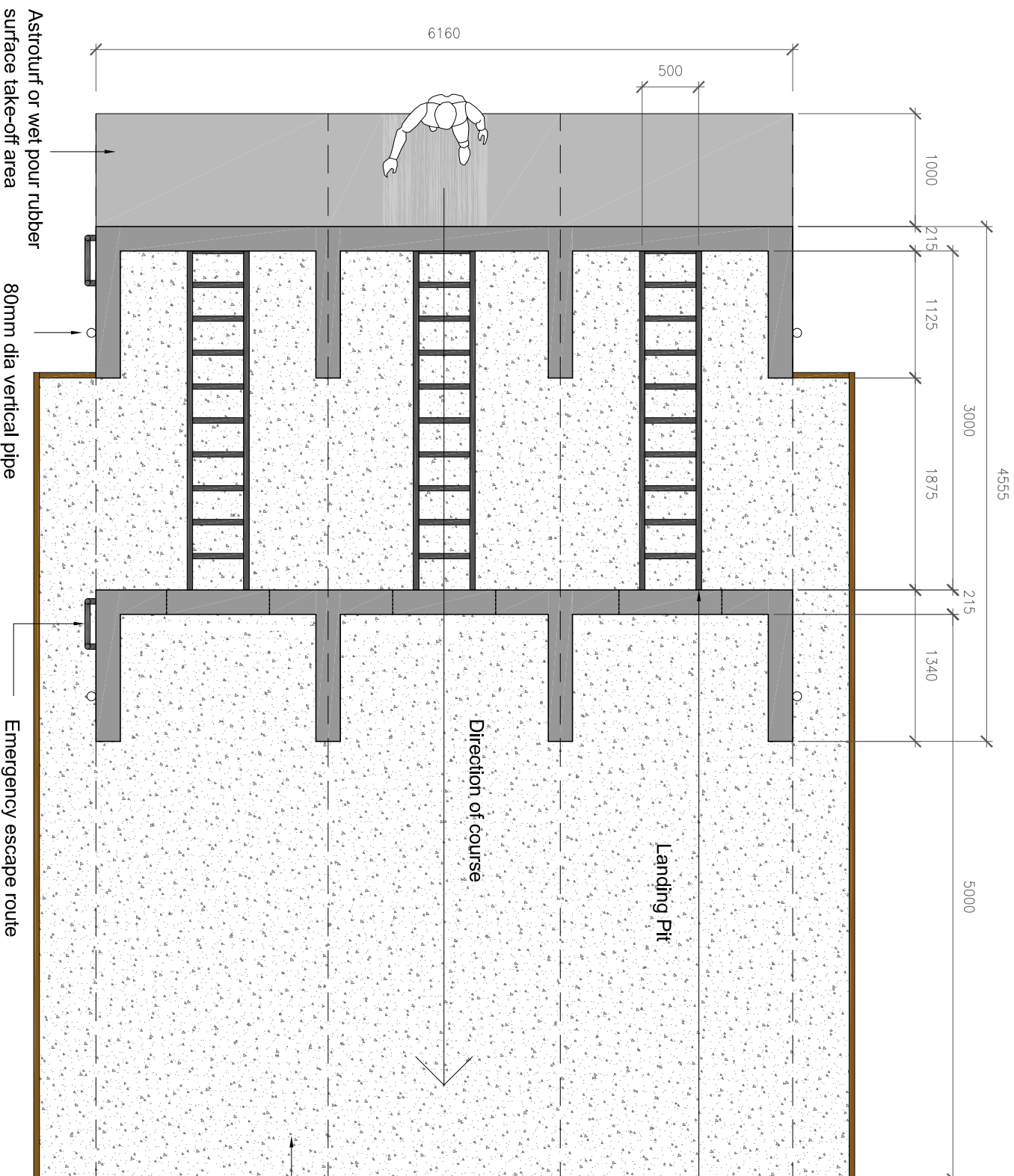
ELEVATION (HIGHEST WALL)
Scale 1:100



SECTION
Scale 1:100



ISOMETRIC VIEW
Scale 1:100



PLAN
Scale 1:50

48mm dia sides and rungs to ladder

Pea-shingle impact absorbing surface (min depth 300mm)

Timber retaining board

Rev	Description	LW	ACR	SP	SP	DATE
B	CROSS-REFERENCE TO SCALE 44 AMENDED					JUNE 07
C	TAKE OFF AREAS CHANGED TO ASTROTURF OR WETPOUR RUBBER SURFACING					FEB 09



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Civil Structural Mechanical Electrical Process Rail Traffic Environmental Project Management

OBSTACLE COURSE DRAWINGS

Drawing Title:
OBSTACLE A9 - DOUBLE WALL
(JSP 315 SCALE 44, ANNEX A, SERIAL 9)
COURSE TYPE A

Scale	Drawn By	Date	Checked By	Date	Approved By	Date
A3	AS SHOWN	01/08/06	SPP	01/08/06	ACR	01/08/06
Project No.	Office	Type	Drawing No.	Revision		
E008949	35	04	E8949/DE/A9	C		

APPROVAL INFORMATION TENDER CONTRACT CONSTRUCTION

TYPES OF OBSTACLE COURSES:-

THESE DRAWINGS RELATE TO THE PROVISION OF BASIC OBSTACLES AS DEFINED IN JSP 315 SCALE OF ACCOMMODATION No. 44 FOR USE ON THE FOLLOWING TYPES OF OBSTACLE COURSE:-

COURSE TYPE A

(FOR USE BY TRAINED SERVICE PERSONNEL IN UNITS).

ALL OBSTACLES TO BE SUITABLE FOR 3 LANE USE WITH NO VARIATION IN DIFFICULTY BETWEEN LANES.

NUMBER OF OBSTACLES USED RANGES FROM A MINIMUM OF 14 TO A MAXIMUM OF 18.

LIST OF DE DESIGN DRAWINGS (A1- A18):-

E894/9/DE/A801	GENERAL DESIGN GUIDANCE NOTES
E894/9/DE/A	SCHEMATIC LAYOUT - COURSE TYPE A (UNIT)
E894/9/DE/A1	- STEPS
E894/9/DE/A2	- DOUBLE DITCH
E894/9/DE/A3	- CRAWL
E894/9/DE/A4	- SINGLE WALL (LOW)
E894/9/DE/A5	OBSTACLE A4
E894/9/DE/A6	OBSTACLE A6
E894/9/DE/A7	- SWING OVER DITCH
E894/9/DE/A8	OBSTACLE A8
E894/9/DE/A9	OBSTACLE A9
E894/9/DE/A10	OBSTACLE A10
E894/9/DE/A11	OBSTACLE A11
E894/9/DE/A12	OBSTACLE A12
E894/9/DE/A13	OBSTACLE A13
E894/9/DE/A14	OBSTACLE A14
E894/9/DE/A15	OBSTACLE A15
E894/9/DE/A16	OBSTACLE A16
E894/9/DE/A17	OBSTACLE A17
E894/9/DE/A18	OBSTACLE A18

COURSE TYPE B
(FOR USE BY TRAINEES AND RECRUITS).

ALL OBSTACLES TO BE SUITABLE FOR 3 LANE USE WITH VARIATION IN DIFFICULTY PROVIDED BETWEEN LANES, ALTHOUGH OBSTACLES WITHOUT VARIATIONS MAY BE USED.

NUMBERS OF OBSTACLES MAY VARY BUT IS USUALLY 9.

LIST OF DE DESIGN DRAWINGS (B1- B9):-

E894/9/DE/B01	GENERAL DESIGN GUIDANCE NOTES
E894/9/DE/B	SCHEMATIC LAYOUT - COURSE TYPE B (TRAINEES)
E894/9/DE/B1	OBSTACLE B1
E894/9/DE/B2	OBSTACLE B2
E894/9/DE/B3	OBSTACLE B3
E894/9/DE/B4	OBSTACLE B4
E894/9/DE/B5	OBSTACLE B5
E894/9/DE/B6	OBSTACLE B6
E894/9/DE/B7	OBSTACLE B7
E894/9/DE/B8	OBSTACLE B8
E894/9/DE/B9	OBSTACLE B9

NB. THE JSP SCALE DOES NOT COVER THE PROVISION OF OBSTACLES FOR CONFIDENCE BUILDING OR SPECIALIST COURSES.

THE SCHEMATIC LAYOUT DRAWINGS FOR TYPE A AND B COURSES ARE FOR INFORMATION PURPOSES ONLY AND ARE NOT TO BE REGARDED AS STANDARD LAYOUTS.

SITING AND LAYOUT OF COURSES

WHERE POSSIBLE, THE LAYOUT OF COURSES SHOULD BE DESIGNED AROUND EXISTING SITE FEATURES USING STREAMS, SITE CONTOURS AND FEATURES TO CREATE ADDITIONAL INTEREST. COURSES DO NOT NEED TO BE IN A STRAIGHT LINE.

THE SEQUENCE AND SPACING OF OBSTACLES IS TO BE SELECTED TO SUIT THE SITE, SAFETY AND THE INDIVIDUAL TRAINING REQUIREMENTS OF THE UNIT CONCERNED.

THE DISTANCES BETWEEN OBSTACLES SHOULD BE A MINIMUM OF 5 METRES AND A MAXIMUM OF 10 METRES.

ADVICE ON THE LAYOUT OF OBSTACLE COURSES SHOULD BE SOUGHT FROM THE APPROPRIATE SERVICE PHYSICAL DEVELOPMENT DIRECTORATE / FORMATION HEADQUARTERS SO2 PAT AT AN EARLY STAGE OF THE DESIGN PROCESS.

HEALTH AND SAFETY

ALL MAIN LANDING PIT AREAS ARE TO BE FILLED WITH IMPACT ABSORBING MATERIAL TO A DEPTH OF 300mm USING 12mm PEA SHINGLE.

ALL SECONDARY LANDING AREAS UNDER AND AROUND OBSTACLES AND ANY UNTURFED SECTIONS OF THE COURSE ARE TO BE COVERED IN A MINIMUM OF 75mm DEEP PEA SHINGLE OR BARK CHIPPIINGS AS APPROPRIATE.

ALL EXPOSED CONCRETE AND LEADING EDGES ON OBSTACLES ARE TO BE COVERED IN PROTECTIVE RUBBER SHEETING AS INDICATED ON THE DRAWINGS.

THE TOP SURFACES OF ALL PLANKS, TIMBER CAPPING AND LOGS ARE TO HAVE ANTI-SLIP FINISHES APPLIED AS INDICATED ON THE DRAWINGS.

ALL CONCRETE CAPPING TO WALLS TO HAVE SMOOTH ROUNDED EDGES.

WARNING SIGNS ARE TO BE DISPLAYED AT STRATEGIC POINTS AROUND OBSTACLE COURSES INDICATING THAT ONLY PERSONNEL UNDER INSTRUCTION ARE ALLOWED TO USE THE OBSTACLES. THE AUTHORISED DESIGN CAN BE OBTAINED FROM OC TAs (CE), HQ INF WARMINSTER.

THE INFORMATION GIVEN IN THESE DESIGN DRAWINGS IS OF A GENERAL NATURE. WHEN THESE OBSTACLE DESIGNS ARE USED, CONSIDERATION MUST BE GIVEN TO THE SPECIFIC SITE CIRCUMSTANCES WHICH APPLY AT THE TIME, AND ANY OTHER INFORMATION, THAT WILL HAVE AN EFFECT ON ANY OTHER PERSONS' HEALTH AND SAFETY DURING THE CONSTRUCTION AND USE OF AN OBSTACLE COURSE.

OBSTACLE DESIGN REQUIREMENTS

BRICKWORK

ALL BRICKWORK TO BE CLASS B ENGINEERING QUALITY WITH REINFORCEMENT TO JOINTS AS NECESSARY.

TIMBER

ALL TIMBER IS TO BE PRESSURE IMPREGNATED WITH PRESERVATIVE.

STEEL TUBES

ALL EXPOSED MS STEEL TUBES ARE TO BE GALVANISED. ALL JOINTS ARE TO BE SITE WELDED AND TREATED WITH GALVANISING PAINT. ALL CUT ENDS ARE TO BE FITTED WITH PLASTIC CAPS.

ENIL

ENIL SHOULD BE LAID SO THAT THE LOZENGE IS 15mm LENGTH ALONG THE DIRECTION OF TRAVEL AND 40mm ACROSS THE DIRECTION.

TAKE-OFF AREAS

APPROACHES TO OBSTACLES SHOULD BE OF A FIRM SUBSTANCE WHICH ALLOWS SURE-FOOTED TRACTION TO ENABLE ACCELERATION EG. ASTRO-TURF, OR WETPOUR RUBBER SURFACING. NB. NOT LOOSE FILLING SUCH AS PEA SHINGLE.

LANDING PITTS

ALL PITTS, EXCEPT WATER JUMPS ARE TO BE DRAINED TO A SUITABLE POINT OF DISCHARGE.

WATER JUMPS MUST BE ABLE TO BE DRAINED.

ROPES / NETS

ALL CORDAGE, NETS AND ROPES ARE TO BE POLYPROPYLENE OR OTHER SUITABLE SYNTHETIC MATERIAL AND ARE TO BE SUPPLIED BY THE SPECIALIST MANUFACTURER AS PART OF THE OBSTACLES.

SCRAMBLE NETS

ROPES:
ROPES (PERIMETER AND MESH) SHOULD BE 3-STRAND, STAPLE SPUN WITH A DIAMETER OF 24MM. MAY BE NATURAL (MANILLA GRADE 1 PREFERRED) OR SYNTHETIC (POLYPROPYLENE) AND MUST CONFORM TO BS EN 698 (FOR MANILLA ROPES) OR BS EN 699 (FOR POLYPROPYLENE ROPES) OR AN ALTERNATIVE APPROVED BY DC IPT.

ROPE ENDS:
ROPE ENDS SHOULD BE SPLICED IN ACCORDANCE WITH BR 68, CHAPTER 3.

NET DISTORTION:
NET MESH SHOULD BE 225MM SQUARE KNOTTED AND SPLICED TO PREVENT DISTORTION.

LASHING:

NETS ARE TO BE LASHED DIRECTLY TO THE MAIN FRAME USING 16MM-20MM NATURAL OR SYNTHETIC ROPE. EXCEPTIONALLY, NYLON TEXTILE, 2 PLY, OLIVE DRAB/BLACK, 50MM WIDE WEBBING MAY BE USED.

WEBBING BUCKLES:

WHERE WEBBING IS USED, IT IS TO BE SECURED USING BUCKLES SL50, ACETAL, G1, BLACK 902 MANUFACTURED BY ITW NEXUS LTD, KINGSWICK HOUSE, SUNNINGHILL, BERKS SL5 7BH OR SUITABLE ALTERNATIVE APPROVED BY DC IPT.

STITCHING:

WHERE WEBBING IS USED, THE THREAD TO BE USED IS POLYESTER AND COTTON, CONTINUOUS FILAMENT POLYESTER CORE, COTTON SHEATH, OLIVE DRAB TO BS EN 12590:2000. TABLE 5 METRIC TICKET NO 25.

SECURING SCRAMBLE NETS:

SCRAMBLE NETS ARE TO BE LASHED TO THE OBSTACLE FRAME ALONG EACH SIDE AND ACROSS THE TOP. SIDE LASHING IS TO BE A MINIMUM OF ONE LOOP TO EACH SQUARE AND TOP LASHING IS TO BE A MINIMUM OF TWO LOOPS TO EACH SQUARE.

TENSION:

SCRAMBLE NETS MAY BE TENSIONED TO TAKE UP ANY SLACK THROUGH CONTINUED USE, BY RE-LASHING.

BURMA BRIDGE ROPEWORK

TOP AND BOTTOM ROPES:
THE TOP AND BOTTOM ROPES ARE TO BE 24MM-28MM DIAMETER, POLYESTER (LESS STRETCH PROPERTIES THAN POLYPROPYLENE OR MANILLA) CONFORMING TO BS EN 697 OR A SUITABLE ALTERNATIVE APPROVED BY DC IPT.

OTHER ROPES:

THE VERTICAL ROPES, HAND RAILS AND GUARD RAIL (HORIZONTAL ROPE RUNNING THE LENGTH OF THE ROPE BRIDGE POSITIONED MID-WAY BETWEEN TOP AND BOTTOM ROPES) ARE TO BE 12MM-16MM DIAMETER, POLYESTER CONFORMING TO BS EN 697 OR A SUITABLE ALTERNATIVE APPROVED BY DC IPT.

ROPE ENDS:

THE ENDS OF THE TOP AND BOTTOM ROPES ARE TO HAVE THIMBLE EYES ATTACHED AND ARE TO BE SPLICED AND SEIZED IN ACCORDANCE WITH BR 68, CHAPTER 3.

DISTORTION PREVENTION:

THE VERTICAL ROPES ARE TO BE SPLICED WITH THE TOP AND BOTTOM ROPES AND THE GUIDE RAIL ROPE TO PREVENT DISTORTION.

SECURING THE BURMA BRIDGE:

THE TOP AND BOTTOM ROPES ARE TO BE SECURED DIRECT TO THE MAIN FRAME VIA THE THIMBLE EYES AND TO A BOTTLE SCREW TO D OR BOW (PREFERRED) GALVANISED STEEL OR ALLOY SHACKLES. ANY PERSON CARRYING OUT A RISK ASSESSMENT OR INSTRUCTING MUST BE ABLE TO SEE WHETHER THE SCREW/TURN BUCKLES THAT SECURE/TENSION THE BURMA BRIDGE ROPES TO THE FRAME HAVE BEEN UNDONE OR LOOSEENED SINCE THE LAST USE.

ROPE SWING ROPEWORK

MAIN ROPE:
THE MAIN ROPE IS TO BE 28MM-34MM DIAMETER, NATURAL (MANILLA GRADE 1 - PREFERRED) OR SYNTHETIC (POLYPROPYLENE) AND CONFORM TO BS EN 698 (FOR MANILLA ROPE) OR BS EN 699 (FOR POLYPROPYLENE ROPE) OR A SUITABLE ALTERNATIVE APPROVED BY DC IPT.

ROPE ENDS:

THE BOTTOM END OF THE ROPE IS TO BE SPLICED AND SEIZED IN ACCORDANCE WITH BR 68, CHAPTER 3. THE TOP END OF THE ROPE IS TO HAVE A THIMBLE EYE ATTACHED AND SEIZED IN ACCORDANCE WITH BR 68, CHAPTER 3.

SECURING ROPE SWINGS:

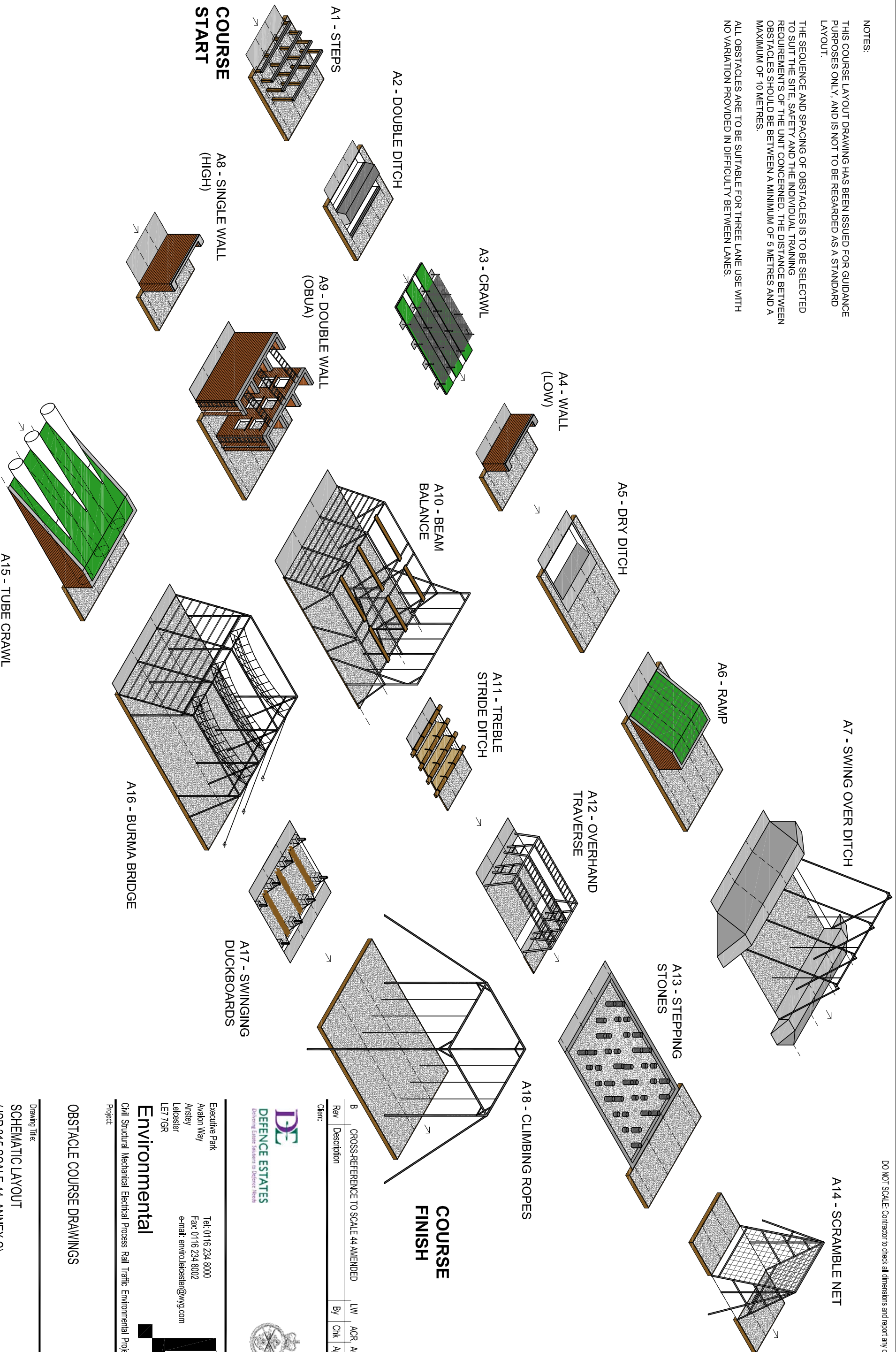
THE ROPE SWING IS TO BE ATTACHED TO THE MAIN FRAME VIA D OR BOW (PREFERRED) GALVANISED STEEL OR ALLOY SHACKLES.

Rev	Description	By	Chk	App	Date
C	SECURING BURMA BRIDGE NOTE AMENDED, TAKE OFF AREAS CHANGED TO ASTROTURF OR WETPOUR RUBBER SURFACING	SC	SP	SP	FEB 09
B	CROSS-REFERENCE TO SCALE 44 AMENDED	LW	ACR	ACR	JUNE07

Client		 Defence Estates <small>Developing Estates - Sustaining Defences - Inspiring</small>	
Executive Park Avallon Way Anstey Leicester LE7 7GR	Tel: 0116 234 8000 Fax: 0116 234 8002 e-mail: enviro.leicester@wvg.com	 White Young Green	
Civil Structural Mechanical Electrical Process Rail Traffic Environmental Project Management Project:			

Drawing Title: JSP 315 SCALE 44 OBSTACLE COURSES A AND B GENERAL DESIGN GUIDANCE NOTES			
Scale at A3 NTS	Drawn By LW	Date 02/10/06	Checked By SPP
Project No. E008949	Office 35	Type 04	Drawing No. E894/9/DE/AB01
Revision C	Information <input type="checkbox"/> APPROVAL <input type="checkbox"/> INFORMATION <input checked="" type="checkbox"/> TENDER <input type="checkbox"/> CONTRACT <input type="checkbox"/> CONSTRUCTION		

NOTES:
 THIS COURSE LAYOUT DRAWING HAS BEEN ISSUED FOR GUIDANCE PURPOSES ONLY, AND IS NOT TO BE REGARDED AS A STANDARD LAYOUT.
 THE SEQUENCE AND SPACING OF OBSTACLES IS TO BE SELECTED TO SUIT THE SITE, SAFETY AND THE INDIVIDUAL TRAINING REQUIREMENTS OF THE UNIT CONCERNED. THE DISTANCE BETWEEN OBSTACLES SHOULD BE BETWEEN A MINIMUM OF 5 METRES AND A MAXIMUM OF 10 METRES.
 ALL OBSTACLES ARE TO BE SUITABLE FOR THREE LANE USE WITH NO VARIATION PROVIDED IN DIFFICULTY BETWEEN LANES.



COURSE FINISH

Rev	Description	LW	ACR	ACR	DATE
B	CROSS-REFERENCE TO SCALE 44 AMENDED				JUNE 07



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Environmental

Chill Structural Mechanical Electrical Process Rail Traffic Environmental Project Management
 Project:

OBSTACLE COURSE DRAWINGS

Drawing Title:
SCHEMATIC LAYOUT
 (JSP 315 SCALE 44, ANNEX C)
 COURSE TYPE A (UNIT)

Scale at A3	Drawn By	Date	Checked By	Date	Approved By	Date
NTS	LW	01/08/06	SPP	01/08/06	ACR	01/08/06
Project No.	Office	Type	Drawing No.	Revision		
E008949	35	04	E8949/DE/A	B		

APPROVAL INFORMATION TENDER CONTRACT CONSTRUCTION

SCHEMATIC LAYOUT