Woolacotts.
CONSULTING ENGINEERS

Our reference: 20-307

3 November 2021

Richard Crookes Constructions
Level 3, Broadcast Way
Artarmon NSW 2064

Attn: Amy Warton

Dear Amy,

RE: HAWKESBURY CENTRE OF EXCELLENCE – DESIGN CHANGE SUMMARY CIVIL ENGINEERING

The below list includes the major changes to the civil engineering design, incorporated within the drawings listed in Schedule A, since the SSDA submission:

1. OSD Basin 2 increasing in size for a more balanced cut / fill
2. OSD Basin 3 increasing in size for rainwater harvesting purposes
3. Increasing the length of the car park / Block F culvert for Block F rear access
4. Converting the swale bridge, adjacent block G, into a culvert

The above changes still comply with the relevant standards and authority requirements, including:

5. The NSW Department of Education's Educational Facilities Standards and Guidelines (EFSG), excluding the departures listed in the EFSG departures schedule
6. Hawkesbury City Council Development Control Plan – Appendix E Civil Works Specification
7. Australian Rainfall and Runoff (ARR): A Guide to Flood Estimation, 2019, Commonwealth of Australia
8. Managing Urban Stormwater: Soils and Construction Vol 1, 4th Edition, dated March 2004
9. Australian standard AS3500.3-2018 Plumbing and Drainage, Part 3: Stormwater Drainage
10. Accepted engineering practice and principles

Yours faithfully,

Alexander Phillips
Woolacotts Consulting Engineers

WOOLACOTTS CONSULTING ENGINEERS PTY LTD
ABN 61 139 113 036

Ground floor, Solitaire, 12A Brown Street, Chatswood NSW 2067
T +61 2 8203 1500 | office@woolacotts.com.au

www.woolacotts.com.au

Schedule A
List of civil engineering drawings

Number	Title	Amendment
H-CV-DW-0001	KEY PLAN AND DRAWING LIST	E
H-CV-DW-0101	CIVIL WORKS DETAIL – SHEET 1	D
H-CV-DW-0102	CIVIL WORKS DETAIL – SHEET 2	B
H-CV-DW-0103	CIVIL WORKS DETAIL – SHEET 3	B
H-CV-DW-0104	CIVIL WORKS DETAIL – SHEET 4	A
H-CV-DW-0201	CIVIL WORKS PLAN – SHEET 1	H
H-CV-DW-0202	CIVIL WORKS PLAN – SHEET 2	G
H-CV-DW-0203	CIVIL WORKS PLAN – SHEET 3	F
H-CV-DW-0204	CIVIL WORKS PLAN – SHEET 4	H
H-CV-DW-0205	CIVIL WORKS PLAN – SHEET 5	A
H-CV-DW-0206	CIVIL WORKS PLAN – SHEET 6	A
H-CV-DW-0207	CIVIL WORKS PLAN – SHEET 7	A
H-CV-DW-0208	CIVIL WORKS PLAN – SHEET 8	A
H-CV-DW-0209	CIVIL WORKS PLAN – SHEET 9	A
H-CV-DW-0210	CIVIL WORKS PLAN – SHEET 10	A
H-CV-DW-0211	CIVIL WORKS PLAN – SHEET 11	A
H-CV-DW-0212	CIVIL WORKS PLAN – SHEET 12	A
H-CV-DW-0213	CIVIL WORKS PLAN – SHEET 13	A
H-CV-DW-0214	CIVIL WORKS PLAN – SHEET 14	A
H-CV-DW-0215	CIVIL WORKS PLAN – SHEET 15	A
H-CV-DW-0216	CIVIL WORKS PLAN – SHEET 16	A
H-CV-DW-0217	CIVIL WORKS PLAN – SHEET 17	A
H-CV-DW-0218	CIVIL WORKS PLAN – SHEET 18	A
H-CV-DW-0219	CIVIL WORKS PLAN – SHEET 19	A
H-CV-DW-0220	CIVIL WORKS PLAN – SHEET 20	A
H-CV-DW-0221	CIVIL WORKS PLAN – SHEET 21	A
H-CV-DW-0222	CIVIL WORKS PLAN – SHEET 22	A
H-CV-DW-0223	CIVIL WORKS PLAN – SHEET 23	A
H-CV-DW-0224	CIVIL WORKS PLAN – SHEET 24	A
H-CV-DW-0225	CIVIL WORKS PLAN – SHEET 25	A

H-CV-DW-0226	CIVIL WORKS PLAN – SHEET 26	A
H-CV-DW-0301	EROSION AND SEDIMENT CONTROL PLAN	E
H-CV-DW-0401	EROSIONS AND SEDIMENT CONTROL DETAILS	C

CENTRE OF EXCELLENCE IN AGRICULTURAL EDUCATION (CoE)

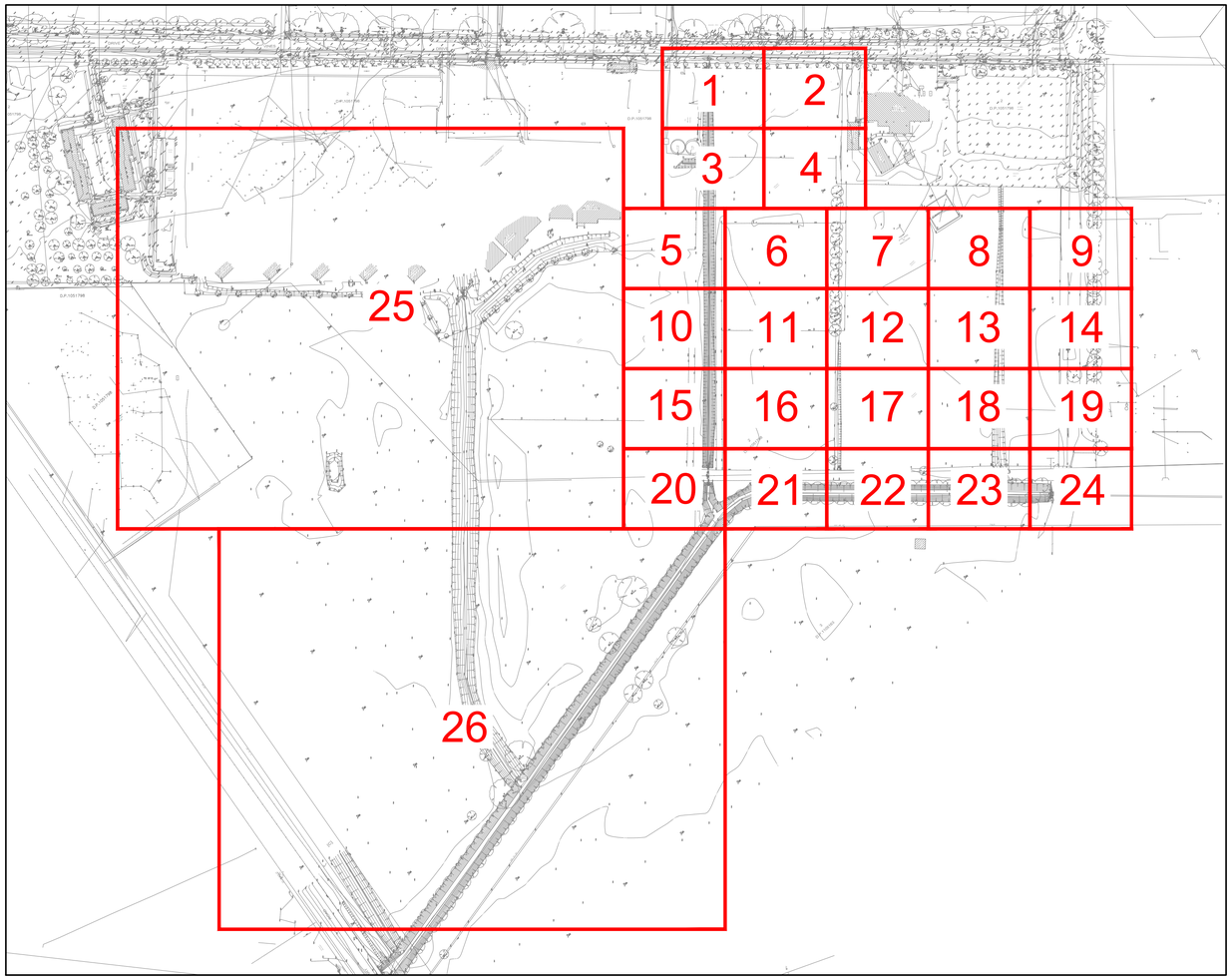
NSW GOVERNMENT | EDUCATION

NBRSARCHITECTURE.

RICHARD CROOKES CONSTRUCTIONS

LEGEND

- CONCRETE PAVEMENT TYPE 1: 125 THICK N32 CONCRETE SLAB REINFORCED WITH SL72 FABRIC (40 TOP COVER) ON 100mm COMPACTED DGB20 BASECOURSE MATERIAL. ON COMPACTED SUBGRADE. CONCRETE FINISH TO ARCHITECT'S DETAIL.
- VEHICULAR ASPHALTIC CONCRETE PAVEMENT: 40mm AC10 ON 100mm DGB20 BASECOURSE MATERIAL ON 300mm DGS40 SUB-BASECOURSE MATERIAL ON COMPACTED SUBGRADE. MIN. CBR OF 10%.
- VEHICULAR CONCRETE PAVEMENT: 180mm THICK N40 CONCRETE SLAB REINFORCED WITH SL92 FABRIC (40 TOP COVER) ON 100mm COMPACTED BASECOURSE MATERIAL ON COMPACTED SUBGRADE. MIN. CBR OF 10%.
- SERVICE ROAD PAVEMENT: 150mm DGB20 BASECOURSE MATERIAL ON COMPACTED SUBGRADE. MIN. CBR OF 10%
- NBRS BRICK PAVEMENT: REFER TO LANDSCAPE DRAWINGS FOR DETAILS
- ABOVE GROUND ON SITE DETENTION BASIN.
- BIO-RETENTION SYSTEM / FILTER MEDIA
- CONCRETE PAVEMENT TYPE 2: 125 THICK N32 CONCRETE SLAB REINFORCED WITH SL72 FABRIC (40 TOP COVER) ON 100mm COMPACTED DGB20 BASECOURSE MATERIAL. ON COMPACTED SUBGRADE. CONCRETE FINISH TO ARCHITECT'S DETAIL.
- 75mm DECOMPOSED SANDSTONE LAYER ON 100mm DGB20 BASECOURSE ON COMPACTED SUBGRADE. MIN. CBR OF 10%.
- 75mm DECOMPOSED GRANITE LAYER ON 100mm DGB20 BASECOURSE ON COMPACTED SUBGRADE. MIN. CBR OF 10%.
- DRIVECON PERMEABLE CONCRETE PAVEMENT ON 100mm COMPACTED DGB20 BASECOURSE ON COMPACTED SUBGRADE. MIN. 10% CBR.
- NEW STORMWATER PIPE
- NEW SWALE
- NEW OVERLAND FLOW PATH.
- CHILD-PROOF FENCE TO ARCHITECT'S SPECIFICATION.
- NEW STORMWATER PIT
- RWT — NEW RAINWATER TANK
- RW1 — NEW RETAINING WALL
- DP — NEW DOWNPIPE
- DP — NEW CLEANOUT
- 3.80 — PROPOSED SPOT LEVEL
- EX3.80 — EXISTING SPOT LEVEL
- NEW PRECAST HEADWALL.
- BATTER
- KO — KERB ONLY
- FK — FLUSH KERB
- B — NEW BOLLARD
- RW — RAINWATER PIPE TO RAINWATER TANK
- NEW COVERED PIT
- EB1 — EDGE BEAM 1
- SUBSOIL LINE
- W01 — CONCRETE TIERED SEATING WALL
- SW01 — SANDSTONE BLOCK WALL



KEY PLAN

SITE INFORMATION SUMMARY:
TOTAL SITE AREA = 11.6ha (APPROXIMATE)
OSD COUNCIL REQUIREMENT = 200m³/ha
OSD REQUIRED = 2320m³
OSD VOLUME PROVIDED = 2320m³
PSD COUNCIL REQUIREMENT = 65 L/S/ha
PSD MAXIMUM ALLOWED FOR THE SITE = 754 L/S

NOTE:
ENVIROPOD INSERTS TO BE INSTALLED IN ALL GRATED INLET PITS.

DRAWING LIST

H-CV-DW-0001	KEY PLAN AND DRAWING LIST
H-CV-DW-0101	CIVIL WORKS DETAIL - SHEET 1
H-CV-DW-0102	CIVIL WORKS DETAIL - SHEET 2
H-CV-DW-0103	CIVIL WORKS DETAIL - SHEET 3
H-CV-DW-0104	CIVIL WORKS DETAIL - SHEET 4
H-CV-DW-0201	CIVIL WORKS PLAN - SHEET 1
H-CV-DW-0202	CIVIL WORKS PLAN - SHEET 2
H-CV-DW-0203	CIVIL WORKS PLAN - SHEET 3
H-CV-DW-0204	CIVIL WORKS PLAN - SHEET 4
H-CV-DW-0205	CIVIL WORKS PLAN - SHEET 5
H-CV-DW-0206	CIVIL WORKS PLAN - SHEET 6
H-CV-DW-0207	CIVIL WORKS PLAN - SHEET 7
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H-CV-DW-0209	CIVIL WORKS PLAN - SHEET 9
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H-CV-DW-0214	CIVIL WORKS PLAN - SHEET 14
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H-CV-DW-0225	CIVIL WORKS PLAN - SHEET 25
H-CV-DW-0226	CIVIL WORKS PLAN - SHEET 26
H-CV-DW-0301	EROSION AND SEDIMENT CONTROL PLAN
H-CV-DW-0401	EROSION AND SEDIMENT CONTROL DETAILS

Issue

No.	Date	Description	Chkd
A	28.04.21	SSDA SUBMISSION	
B	03.09.21	DRAFT 50% PROGRESS ISSUE	
C	17.09.21	50% PROGRESS ISSUE	
D	20.09.21	50% PROGRESS ISSUE	
E	22.10.21	90% PROGRESS ISSUE	

Architect

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Sydney
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Nominated Architect:
Andrew Duffin NSW 5602
NBRS & Partners Pty Ltd VIC 51197

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ABN 16 002 247 565

Project

Centre of Excellence in Agricultural Education

at

HAWKESBURY

for

DEPARTMENT OF EDUCATION

Drawing Title

KEY PLAN AND DRAWING LIST

Date OCTOBER 2021

Scale -

Drawing Reference H-CV-DW-0001

Revision E

0 10 20 30 40 50 60 70 80 90 100

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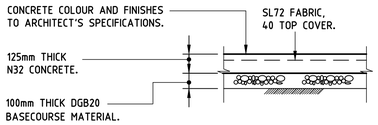
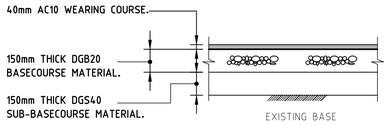
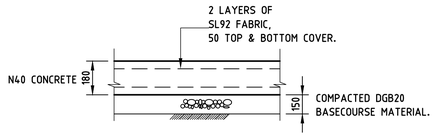
RICHARD CROOKES CONSTRUCTIONS



CONCRETE FOOTPATH PAVEMENT

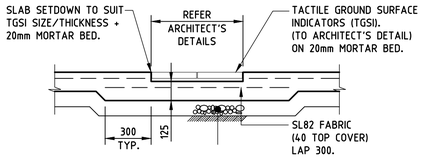


VEHICULAR ASPHALTIC CONCRETE PAVEMENT



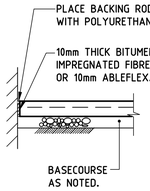
VEHICULAR CONCRETE PAVEMENT

PAVEMENT DETAILS



SLAB THICKENING/SETDOWN FOR TGSI

REFER ARCHITECT'S PLANS FOR LOCATIONS



BUTT JOINT

(TO BE PROVIDED ALONG BUILDING LINES AND BACK OF KERBS WHERE CONCRETE PAVEMENT ABUTS).

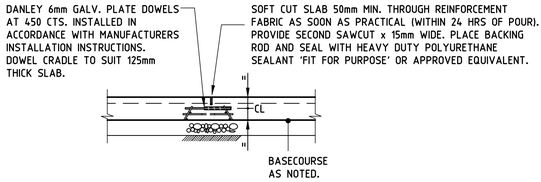
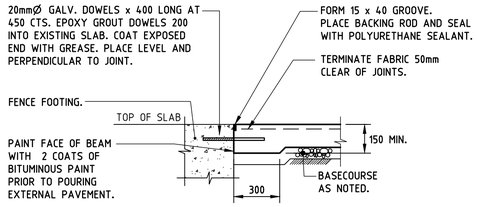


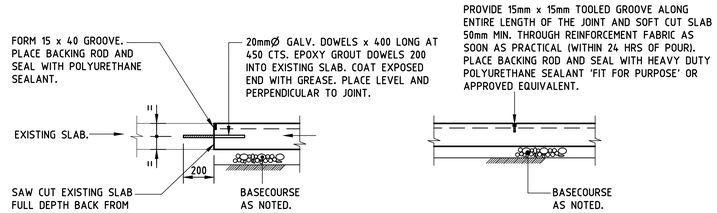
PLATE DOWEL JOINT (PEDESTRIAN PAVEMENT)

ALL INTERMEDIATE JOINTS BETWEEN KEY JOINT/EXPANSION JOINT TO BE PLATE DOWEL JOINT (U.N.O).



DOWEL JOINT

SHOWN 'do' ON PLAN.
(TO BE PROVIDED AT BUILDING DOORWAY WHERE CONCRETE PAVEMENT ABUTS.)

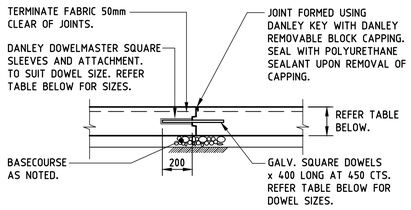


SAWCUT JOINT

SHOWN 'sc' ON PLAN.

DUMMY JOINT

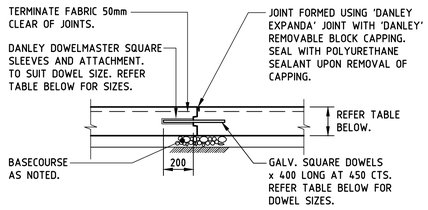
TO BE PROVIDED ON MOWING STRIP CONCRETE PAVEMENT.



DOWELLED KEY JOINT

SHOWN 'k' ON PLAN.

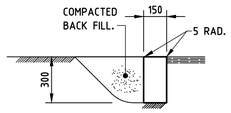
KEY FORM SIZES TABLE		
SLAB THICKNESS	KEY DEPTH	DOWEL SIZE
125mm	125mm	16mm



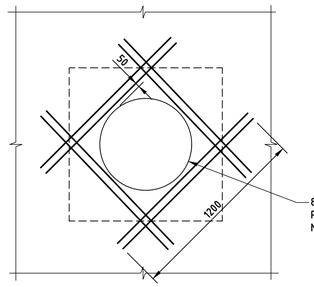
KEYED EXPANSION JOINT

SHOWN 'e' ON PLAN.

CONCRETE JOINT DETAILS

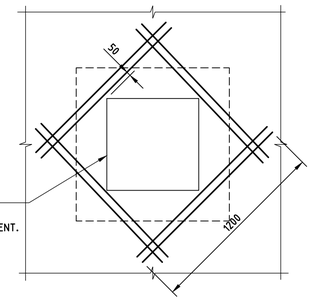


FLUSH KERB (FK)



BASE SLAB - REINFORCING DETAIL

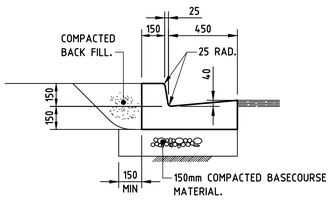
DETAIL FOR CIRCULAR PENETRATIONS



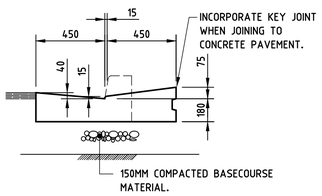
BASE SLAB - REINFORCING DETAIL

DETAIL FOR SQUARE PENETRATIONS

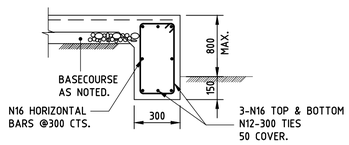
TYPICAL CONCRETE PAVEMENT PENETRATION DETAILS



KERB & GUTTER (K&G)



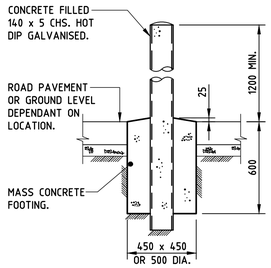
STANDARD LAYBACK (LB)



CONCRETE DOWNTURN (DT)

KERB AND GUTTER DETAILS

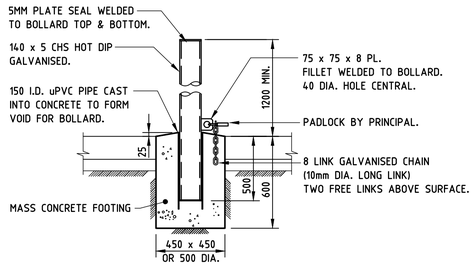
PROVIDE DUMMY JOINT AT 3000 CTS WITH BUTT JOINT AT 9000 CTS.



FIXED BOLLARD DETAIL (B)

ALL COMPONENETS TO BE HOT DIP GALVANISED.

REFER LANDSCAPE ARCHITECT'S PLANS FOR LOCATIONS.



REMOVABLE BOLLARD (B1)

ALL COMPONENETS TO BE HOT DIP GALVANISED.

REFER LANDSCAPE ARCHITECT'S PLANS FOR LOCATIONS.

Issue

No.	Date	Description	Chkd
A	24.09.21	50% PROGRESS ISSUE	
B	22.10.21	90% PROGRESS ISSUE	

Architect

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Nominated Architect:
Andrew Duffin NSW 5602
NBRS & Partners Pty Ltd VIC 51197 ABN 16 002 247 565

Project

Centre of Excellence in Agricultural Education

at

HAWKESBURY

for

DEPARTMENT OF EDUCATION

Drawing Title

CIVIL WORKS DETAILS - SHEET 2

Date OCTOBER 2021

Scale 1:20 FOR A1

Drawing Reference H-CV-DW-0102

Revision B

0 10 20 30 40 50 60 70 80 90 100

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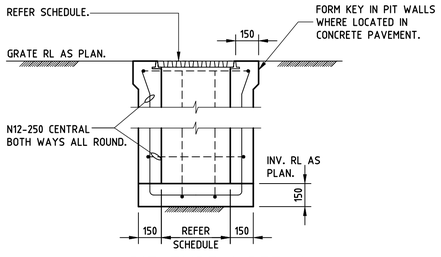
RICHARD CROOKES CONSTRUCTIONS

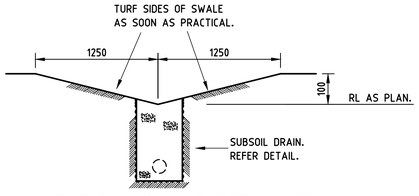


PIT TYPE 1 DETAIL

NOTE:

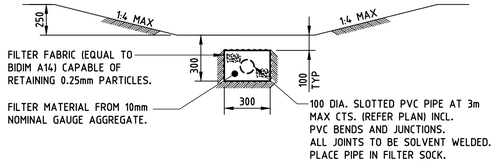
1. PROVIDE GALVANISED STEP IRONS AT PITS DEEPER THAN 1.2m IN ACCORDANCE WITH AS 3500.
2. PROVIDE ENVIROPOD INSERTS TO BE INSTALLED IN ALL GRATED INLET PITS.
3. ALL PITS TO HAVE LOCKABLE SECURE GRATES

NOTE: PROVIDE 1m LONG SUBSOIL DRAINAGE PIPE ADJACENT TO UPSTREAM INLET STORMWATER PIPE AT EACH PIT. THE SUBSOIL PIPE SHALL BE FITTED WITH A FILTER SOCK TIED AT THE UPSTREAM END TO PRECLUDE THE ENTRY OF THE FILTER MATERIAL. THE SUBSOIL PIPE SHALL BE LAID AT THE SAME GRADE AS THE STORMWATER PIPELINE AT INVERT LEVEL. PROVIDE FLAP VALVE AT CONNECTION TO PIT TO PREVENT BACKFLOW.

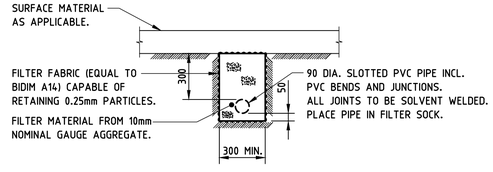


TYPICAL SWALE DETAIL (SW) WITH SUBSOIL DRAIN

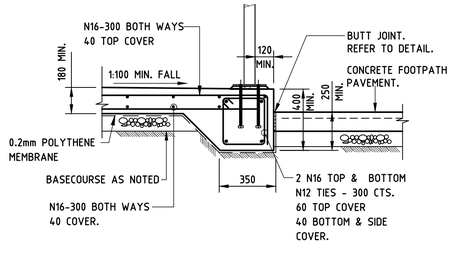
NOTE: SUBSOIL DRAINS ARE TO BE INSTALLED UNDER ALL NEW SWALES.



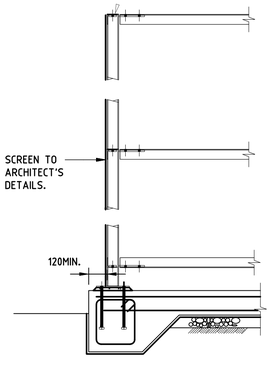
SWALE DETAIL



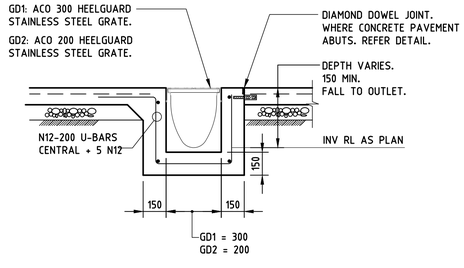
SUBSOIL DRAIN



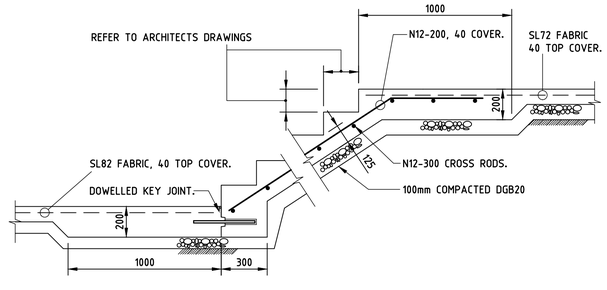
EDGE BEAM EB1



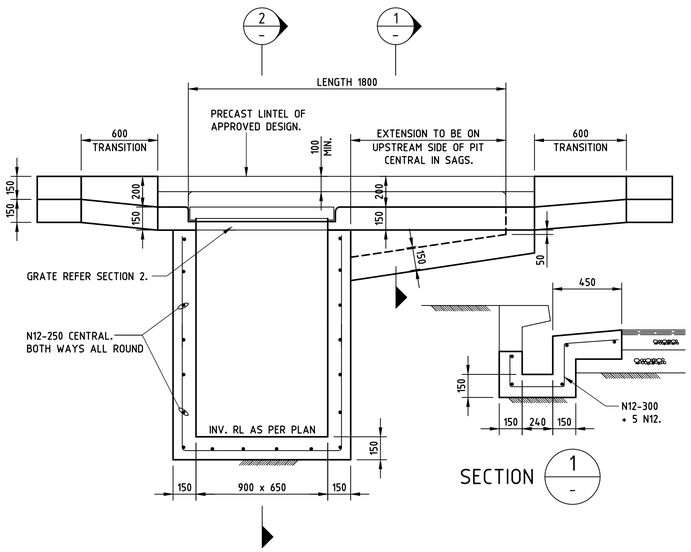
TYPICAL SCREEN FRAMING DETAIL



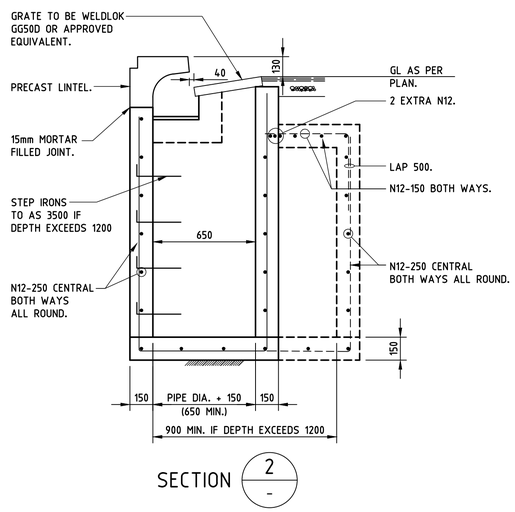
TYPICAL GRATED DRAIN DETAILS

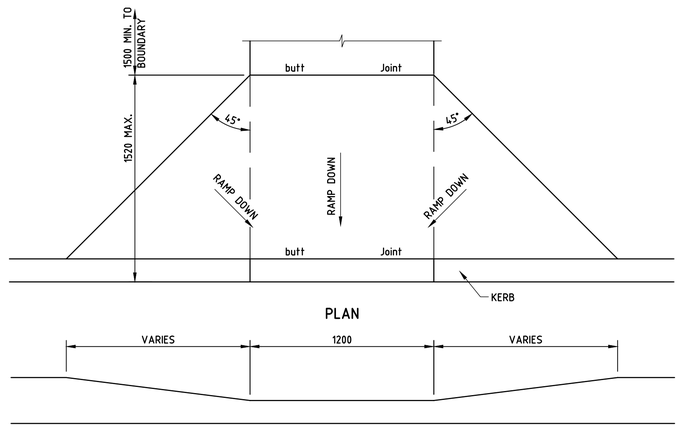


TYPICAL STAIR DETAIL



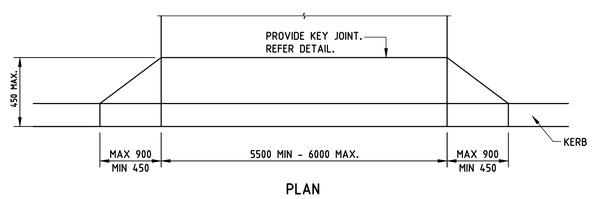
EXTENDED KERB INLET PIT.





CONCRETE KERB RAMP

IN ACCORDANCE WITH AS 1428.1



TYPICAL VEHICULAR CROSSOVER

Issue

No.	Date	Description	Chkd
A	22.10.21	90% PROGRESS ISSUE	

Architect

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Centre of Excellence in Agricultural Education

at

HAWKESBURY

for

DEPARTMENT OF EDUCATION

Drawing Title

CIVIL WORKS DETAILS - SHEET 3

Date OCTOBER 2021

Scale 1:20 FOR A1

Drawing Reference H-CV-DW-0103

Revision A

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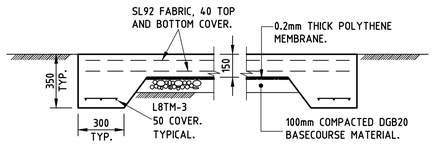
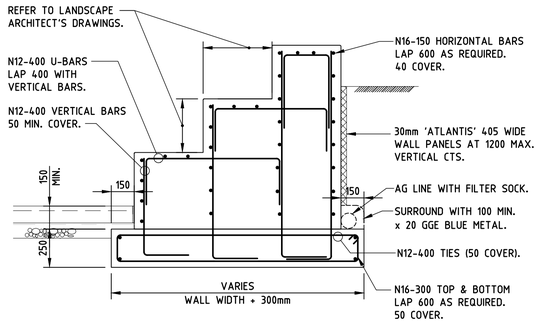
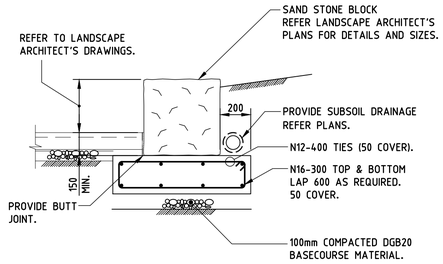
RICHARD CROOKES CONSTRUCTIONS



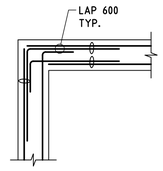
NEW PLINTH SLAB DETAIL



CONCRETE TIERED SEATING WALL (W01)

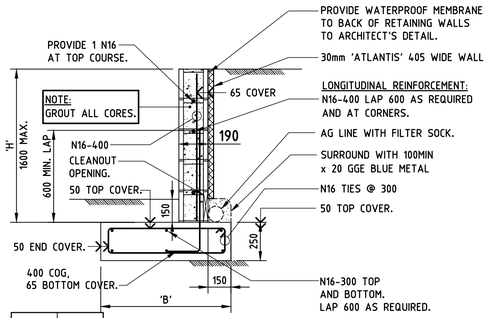


SANDSTONE BLOCK WALL (SW01)



WALL CORNER DETAIL

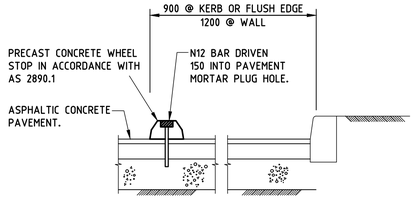
VERTICAL BARS OMITTED FOR CLARITY.



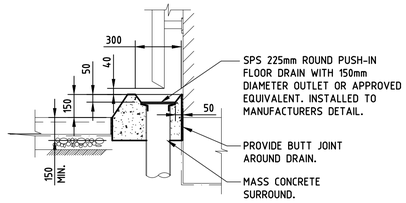
H	B
≤300	750
1000	900
1600	1400

BLOCK RETAINING WALL (RW1)

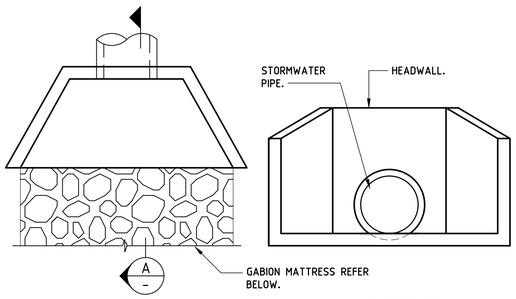
PROVIDE VERTICAL CONTROL JOINTS AT 12m MAX. CTS. (6m MAX FROM CORNERS) USING A 10mm BITUMEN IMPREGNATED FIBREBOARD SEPARATOR. TERMINATE HORIZONTAL REINFORCEMENT EACH SIDE OF JOINT. 50mm END COVER.



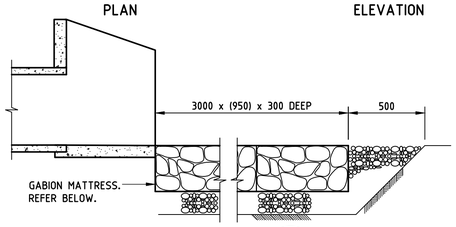
PRECAST CONCRETE WHEEL STOP (WS)



DOWN PIPE DRAIN DETAIL



PLAN ELEVATION



SECTION A

HEADWALL DETAIL

GABIONS - EQUAL TO MACCARFERRI RENO MATTRESS (950 x 3000 x 300 DEEP) FILLED WITH HARD DURABLE 100mm GAUGE ROCK & TIED AT APPROX. 600 CTS. BED MATTRESSES ON 150mm OF 25mm GAUGE BLUE METAL.

Issue

No.	Date	Description	Chkd
A	22.10.21	90% PROGRESS ISSUE	

Architect

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Centre of Excellence in Agricultural Education

at
HAWKESBURY

for
DEPARTMENT OF EDUCATION

Drawing Title

CIVIL WORKS DETAILS - SHEET 4

Date OCTOBER 2021
Scale 1:20 FOR A1

Drawing Reference H-CV-DW-0104

Revision A

0 10 20 30 40 50 60 70 80 90 100

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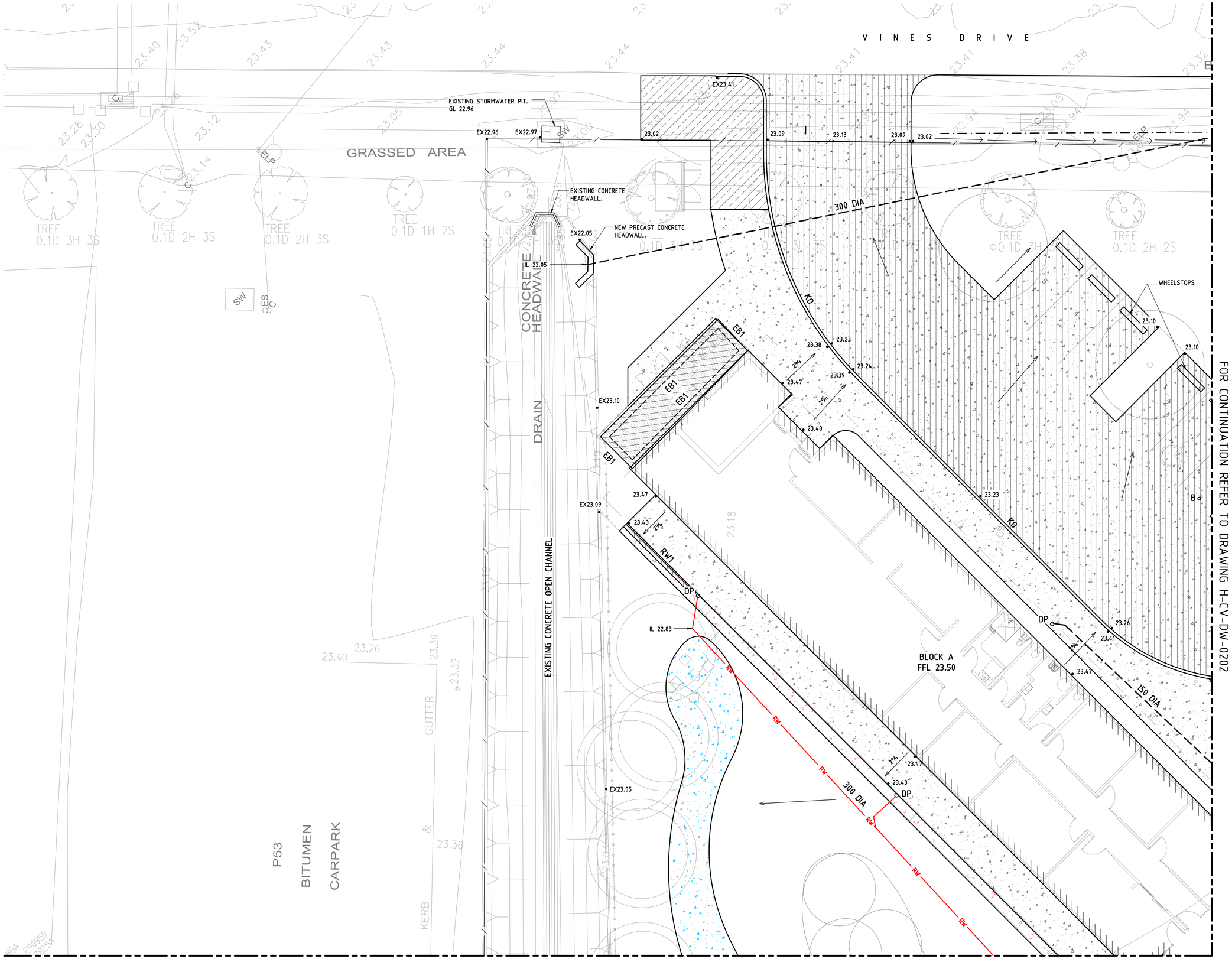
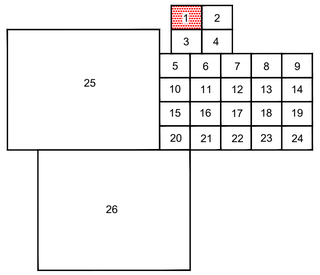


FOR CONTINUATION REFER TO DRAWING H-CV-DW-0202

FOR CONTINUATION REFER TO DRAWING H-CV-DW-0203



Issue

No.	Date	Description	Chkd
A	28.04.21	SSDA SUBMISSION	
B	03.09.21	DRAFT 50% PROGRESS ISSUE	
C	17.09.21	50% PROGRESS ISSUE	
D	20.09.21	50% PROGRESS ISSUE	
E	08.10.21	50% PROGRESS ISSUE	
F	22.10.21	90% PROGRESS ISSUE	

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Centre of Excellence in Agricultural Education

at

HAWKESBURY

for

DEPARTMENT OF EDUCATION

Drawing Title

CIVIL WORKS PLAN - SHEET 1

Date OCTOBER 2021

Scale 1:100 FOR A1

Drawing Reference

H-CV-DW-0201

Revision

F

0 10 20 30 40 50 60 70 80 90 100

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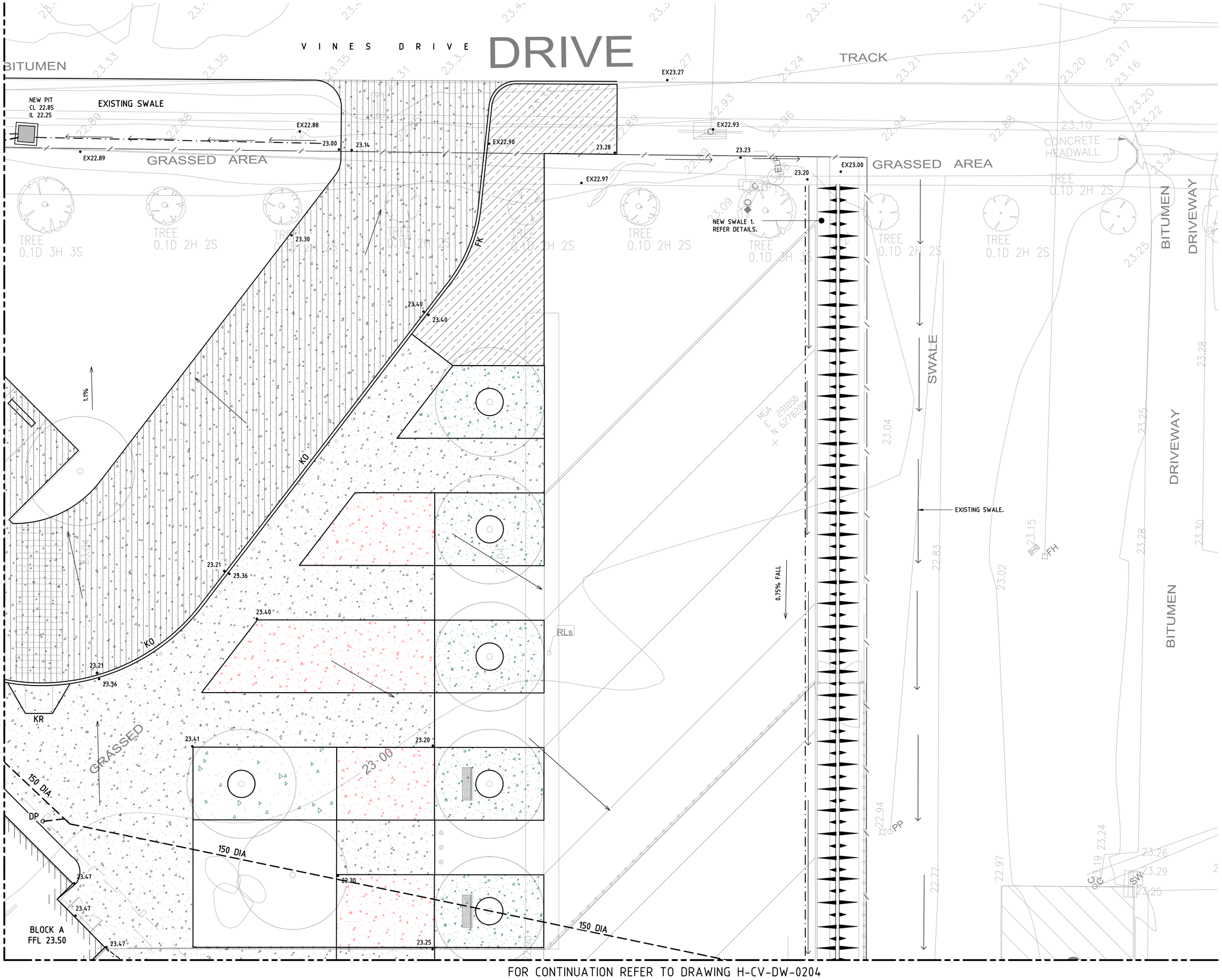

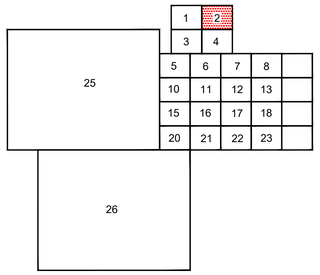

Issue

No.	Date	Description	Chkd
A	28.04.21	SSDA SUBMISSION	
B	03.09.21	DRAFT 50% PROGRESS ISSUE	
C	17.09.21	50% PROGRESS ISSUE	
D	20.09.21	50% PROGRESS ISSUE	
E	05.10.21	50% PROGRESS ISSUE	
F	08.10.21	50% PROGRESS ISSUE	
G	22.10.21	90% PROGRESS ISSUE	

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at

HAWKESBURY

for

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Drawing Title

CIVIL WORKS PLAN - SHEET 2

Date OCTOBER 2021

Scale 1:100 FOR A1

Drawing Reference H-CV-DW-0202

Revision G

0 10 20 30 40 50 60 70 80 90 100

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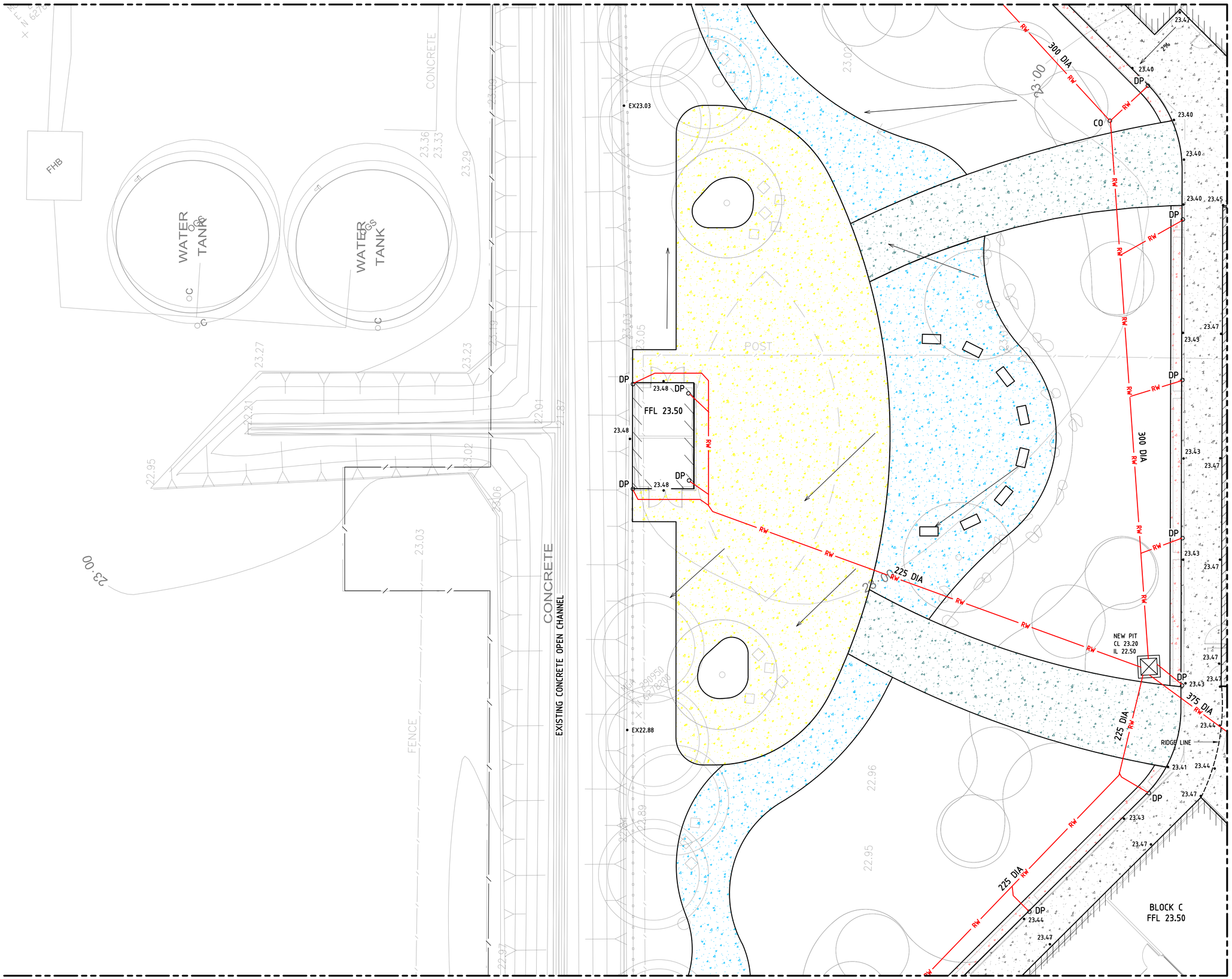
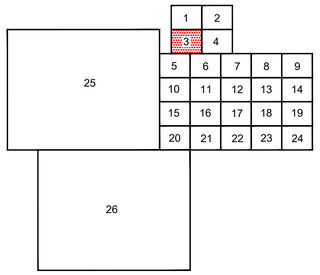
FOR CONTINUATION REFER TO DRAWING H-CV-DW-0201



FOR CONTINUATION REFER TO DRAWING H-CV-DW-0204

FOR CONTINUATION REFER TO DRAWING H-CV-DW-0205



Issue

No.	Date	Description	Chkd
A	28.04.21	SSDA SUBMISSION	
B	03.09.21	DRAFT 50% PROGRESS ISSUE	
C	17.09.21	50% PROGRESS ISSUE	
D	20.09.21	50% PROGRESS ISSUE	
E	08.10.21	50% PROGRESS ISSUE	
F	22.10.21	90% PROGRESS ISSUE	

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for
DEPARTMENT OF EDUCATION

Drawing Title

CIVIL WORKS PLAN - SHEET 3

Date OCTOBER 2021
Scale 1:100 FOR A1

Drawing Reference H-CV-DW-0203

Revision F

0 10 20 30 40 50 60 70 80 90 100

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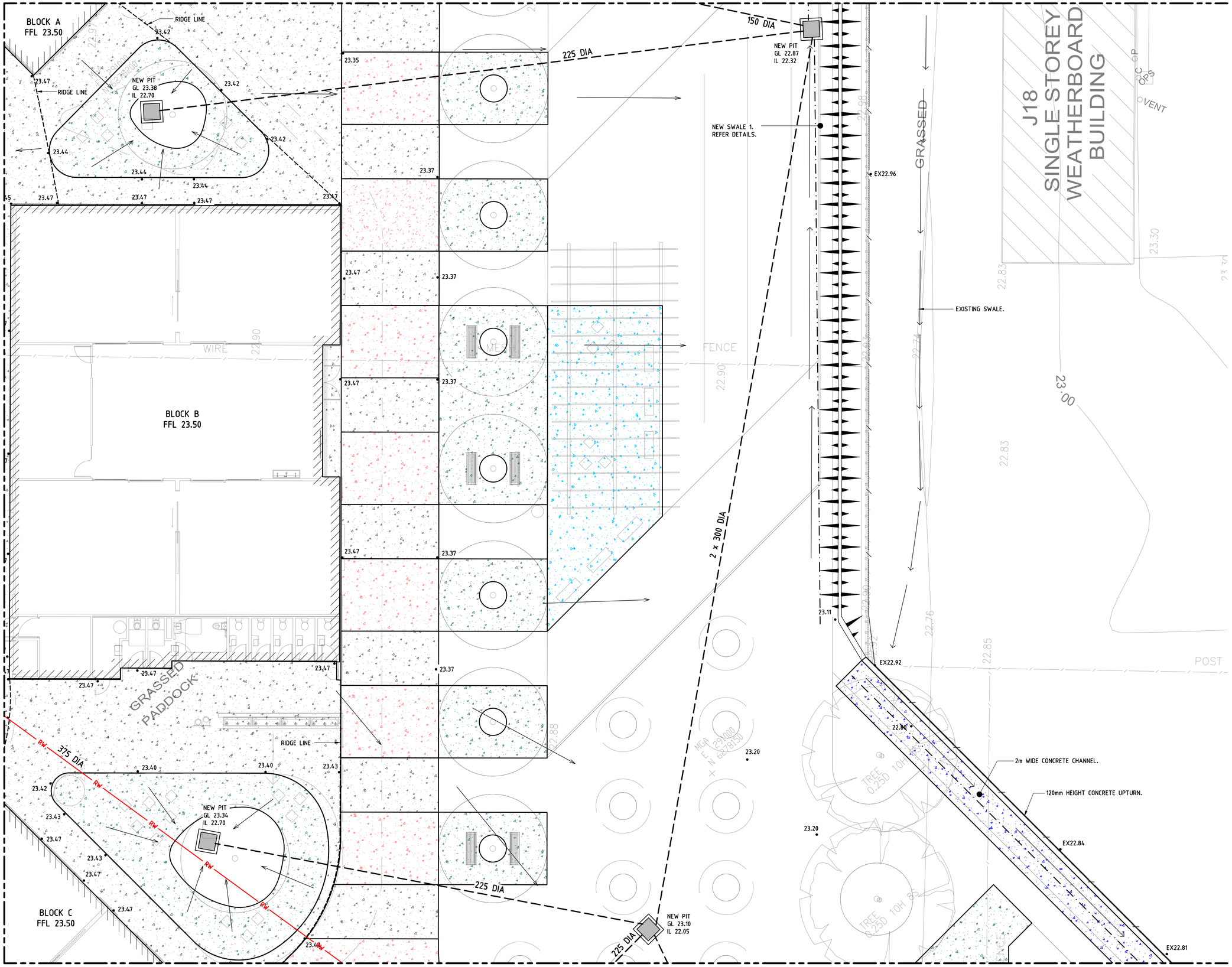
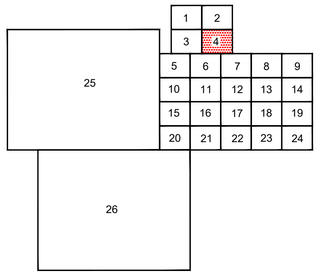
FOR CONTINUATION REFER TO DRAWING H-CV-DW-0202



FOR CONTINUATION REFER TO DRAWING H-CV-DW-0203

FOR CONTINUATION REFER TO DRAWING H-CV-DW-0206 & 0207



Issue

No.	Date	Description	Chkd
A	28.04.21	SSDA SUBMISSION	
B	03.09.21	DRAFT 50% PROGRESS ISSUE	
C	17.09.21	50% PROGRESS ISSUE	
D	20.09.21	50% PROGRESS ISSUE	
E	05.10.21	50% PROGRESS ISSUE	
F	08.10.21	50% PROGRESS ISSUE	
G	22.10.21	90% PROGRESS ISSUE	

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Drawing Title

CIVIL WORKS PLAN - SHEET 4

Date OCTOBER 2021

Scale 1:100 FOR A1

Drawing Reference

H-CV-DW-0204

Revision

G

0 10 20 30 40 50 60 70 80 90 100

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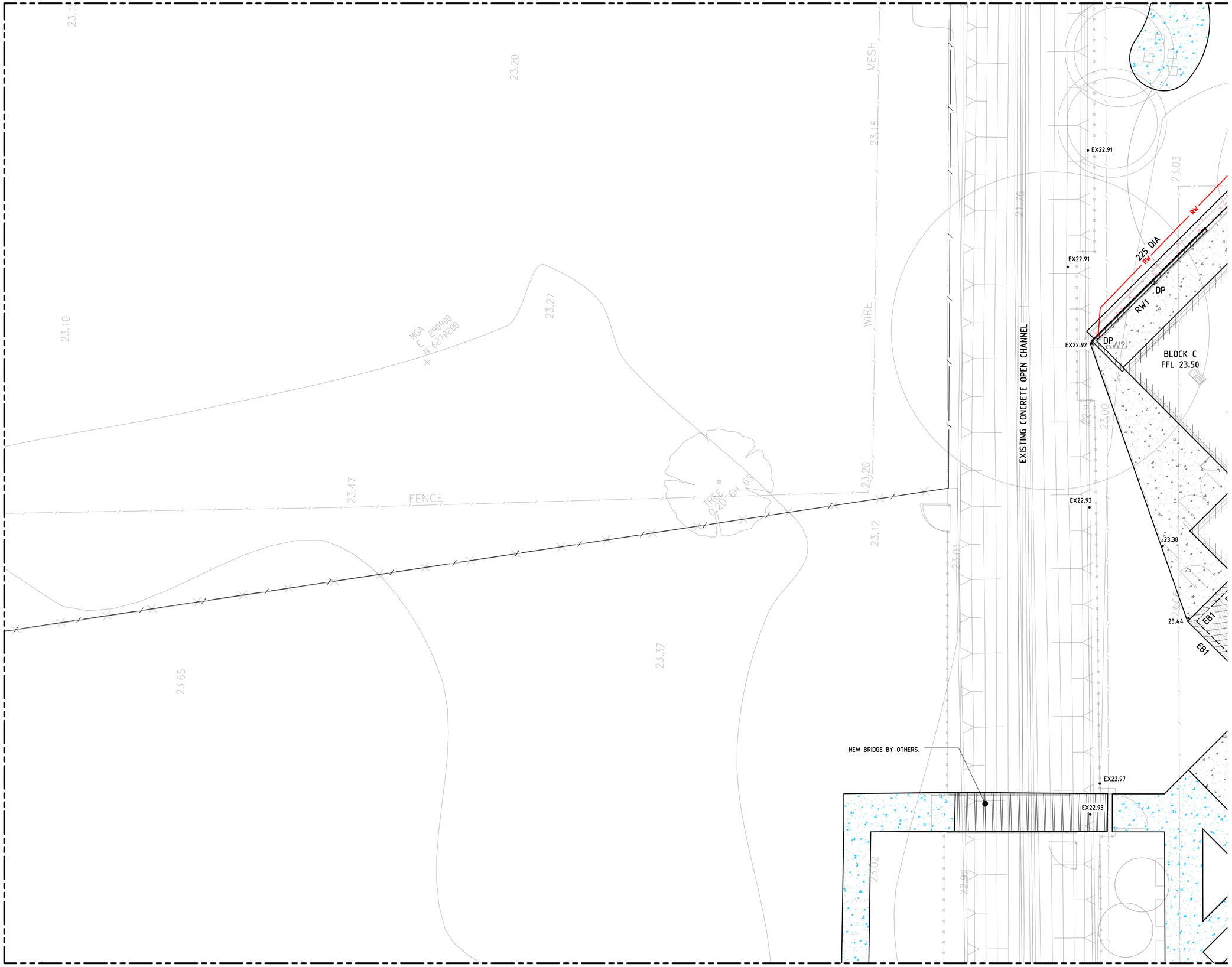
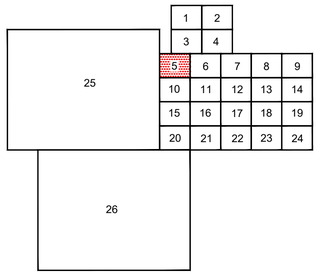
FOR CONTINUATION REFER TO DRAWING H-CV-DW-0203

FOR CONTINUATION REFER TO DRAWING H-CV-DW-0225



FOR CONTINUATION REFER TO DRAWING H-CV-DW-0210



Issue

No.	Date	Description	Chkd
A	22.10.21	90% PROGRESS ISSUE	

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Drawing Title

CIVIL WORKS PLAN - SHEET 5

Date OCTOBER 2021

Scale 1:100 FOR A1

Drawing Reference H-CV-DW-0205

Revision A

0 10 20 30 40 50 60 70 80 90 100

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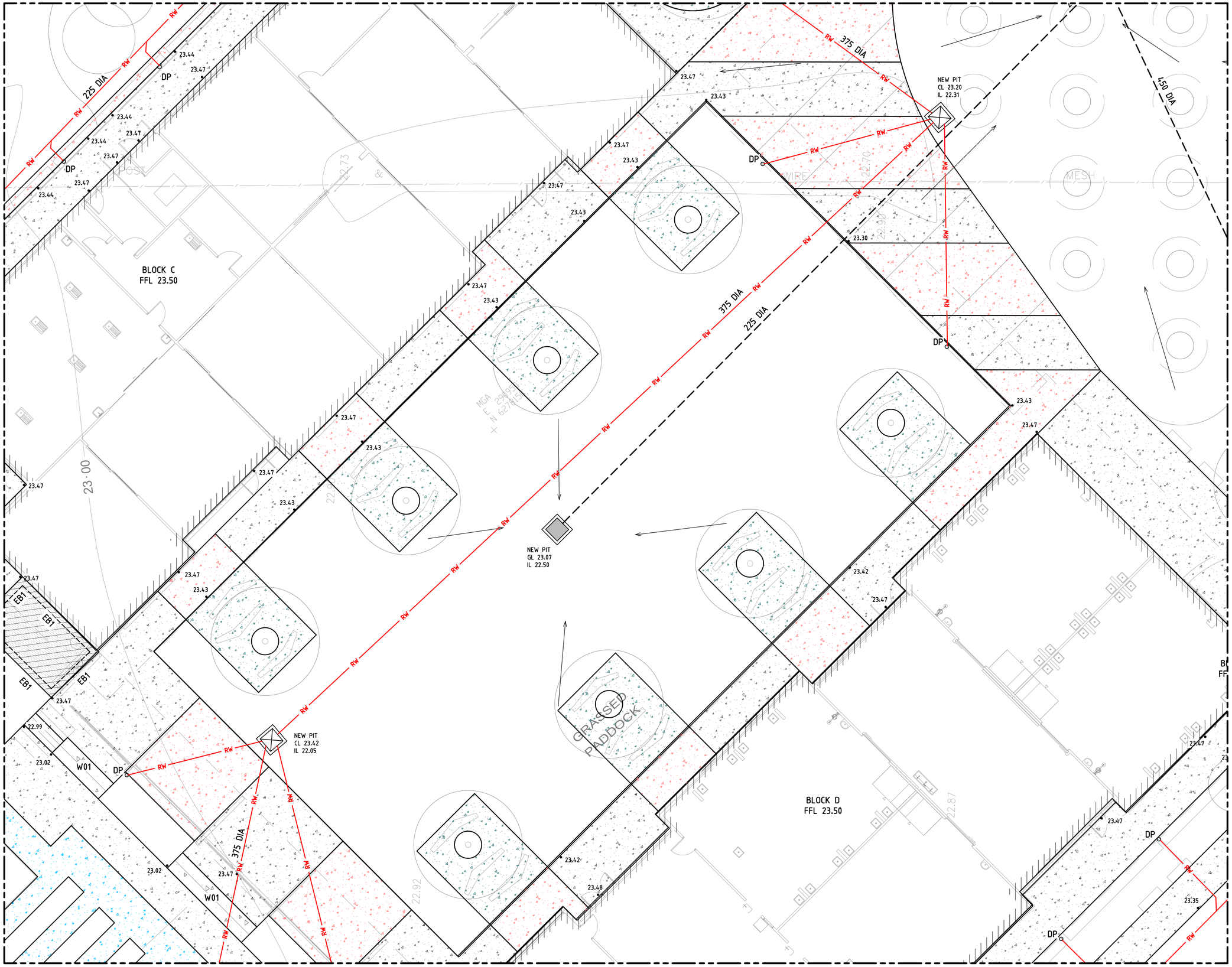
FOR CONTINUATION REFER TO DRAWING H-CV-DW-0203 & 0204



FOR CONTINUATION REFER TO DRAWING H-CV-DW-0205

FOR CONTINUATION REFER TO DRAWING H-CV-DW-0207

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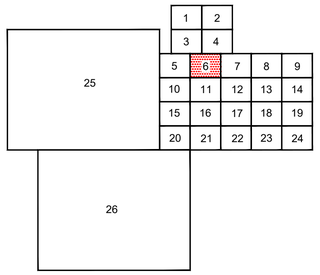

Issue

No.	Date	Description	Chkd
A	22.10.21	90% PROGRESS ISSUE	

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Drawing Title

CIVIL WORKS PLAN - SHEET 6

Date OCTOBER 2021

Scale 1:100 FOR A1

Drawing Reference H-CV-DW-0206

Revision A

0 10 20 30 40 50 60 70 80 90 100

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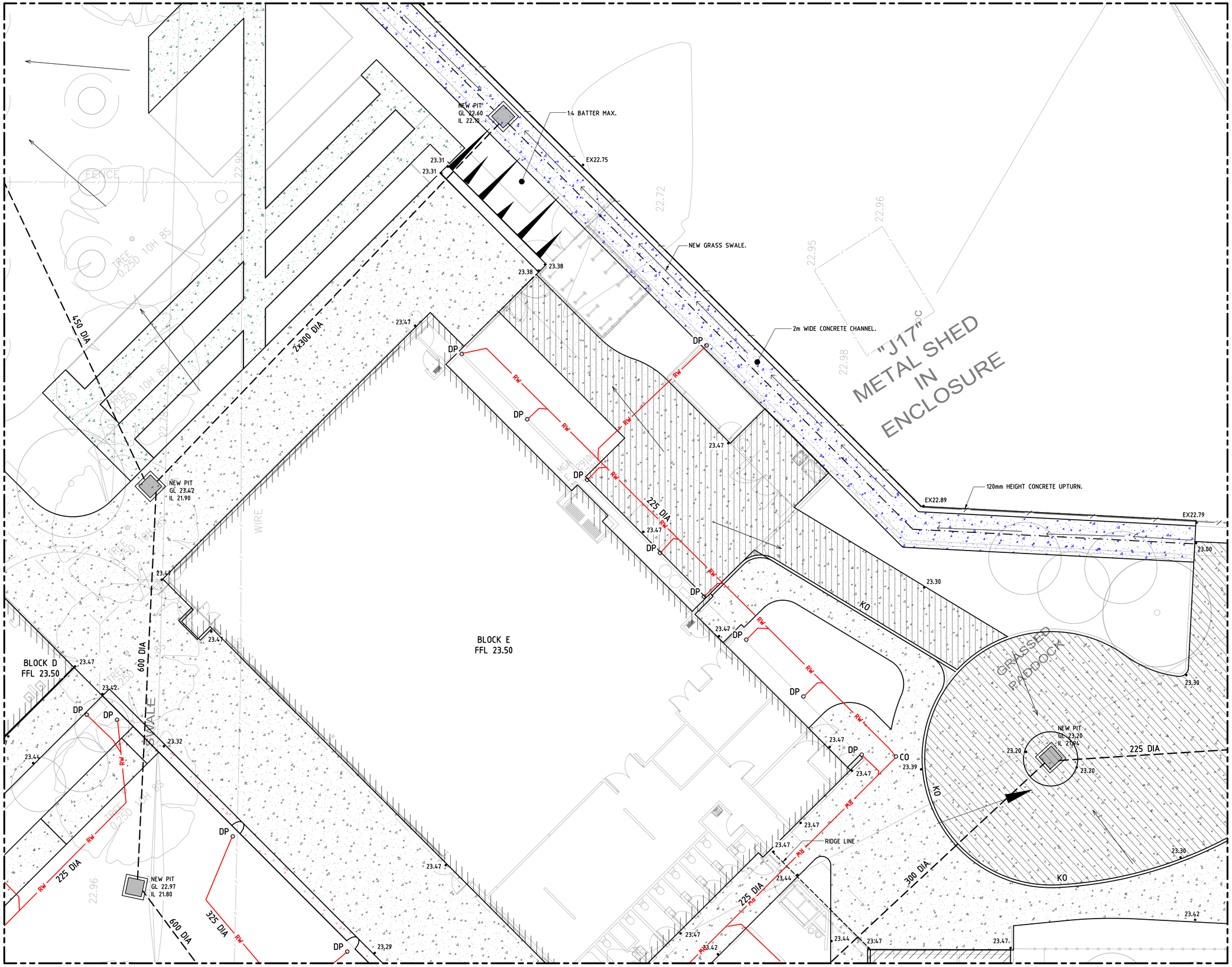
NBRSARCHITECTURE.

RICHARD CROOKES CONSTRUCTIONS

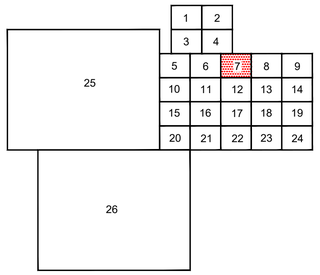
FOR CONTINUATION REFER TO DRAWING H-CV-DW-0204

FOR CONTINUATION REFER TO DRAWING H-CV-DW-0206



FOR CONTINUATION REFER TO DRAWING H-CV-DW-0208

FOR CONTINUATION REFER TO DRAWING H-CV-DW-0212



Issue

No.	Date	Description	Chkd
A	22.10.21	90% PROGRESS ISSUE	

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Drawing Title

CIVIL WORKS PLAN - SHEET 7

Date OCTOBER 2021
Scale 1:100 FOR A1

Drawing Reference
H-CV-DW-0207

Revision
A

0 10 20 30 40 50 60 70 80 90 100

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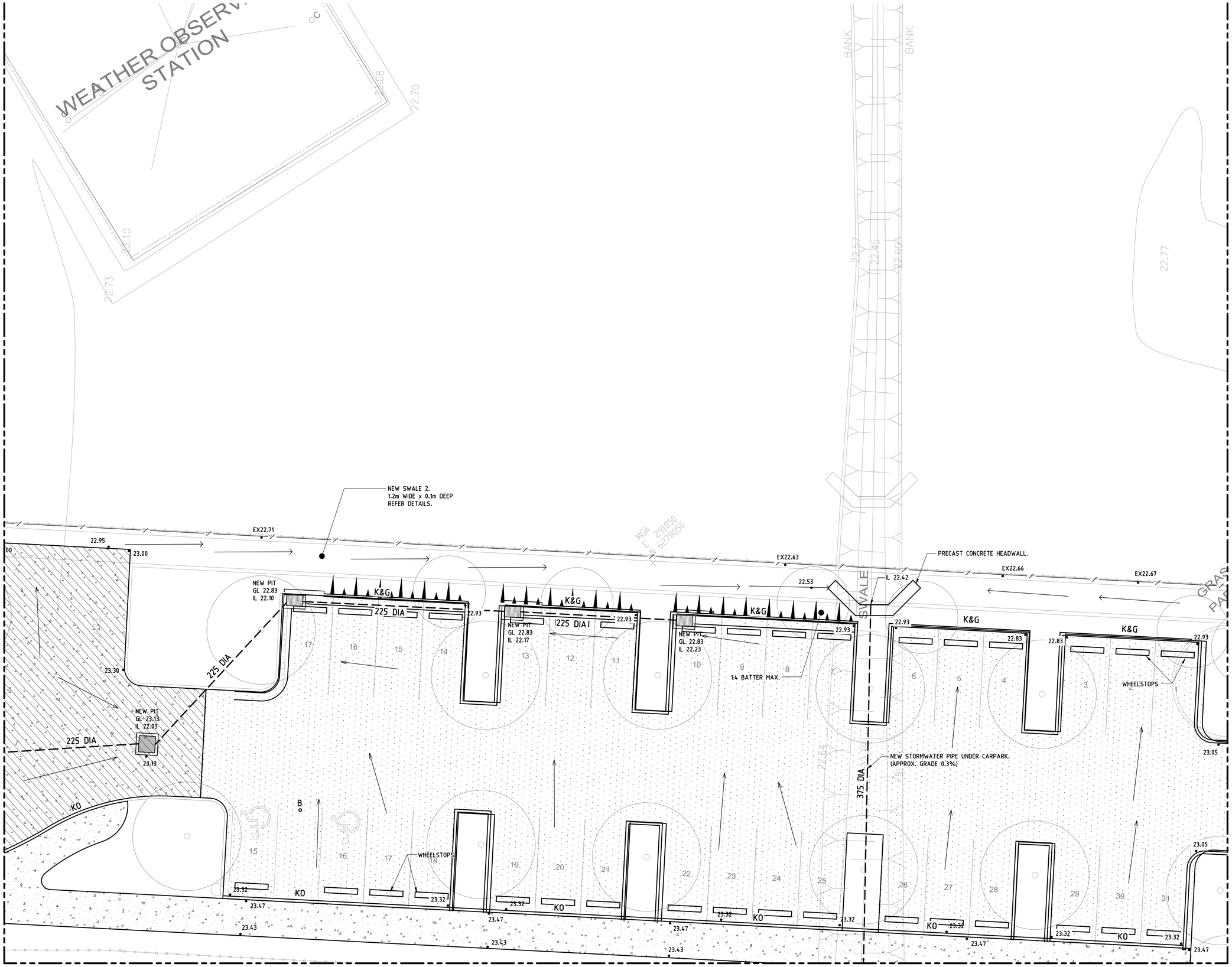
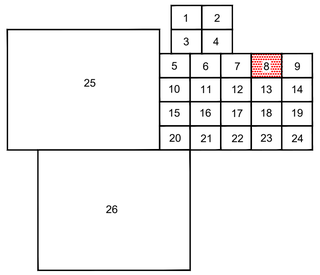
RICHARD CROOKES CONSTRUCTIONS



FOR CONTINUATION REFER TO DRAWING H-CV-DW-0207

FOR CONTINUATION REFER TO DRAWING H-CV-DW-0209

FOR CONTINUATION REFER TO DRAWING H-CV-DW-0213



Issue

No.	Date	Description	Chkd
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Drawing Title

CIVIL WORKS PLAN - SHEET 8

Date OCTOBER 2021

Scale 1:100 FOR A1

Drawing Reference H-CV-DW-0208

Revision A

0 10 20 30 40 50 60 70 80 90 100

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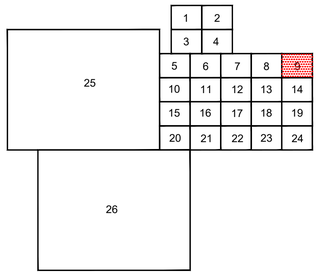

Issue

No.	Date	Description	Chkd
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Drawing Title

CIVIL WORKS PLAN - SHEET 9

Date OCTOBER 2021
Scale 1:100 FOR A1

Drawing Reference
H-CV-DW-0209

Revision
A

0 10 20 30 40 50 60 70 80 90 100

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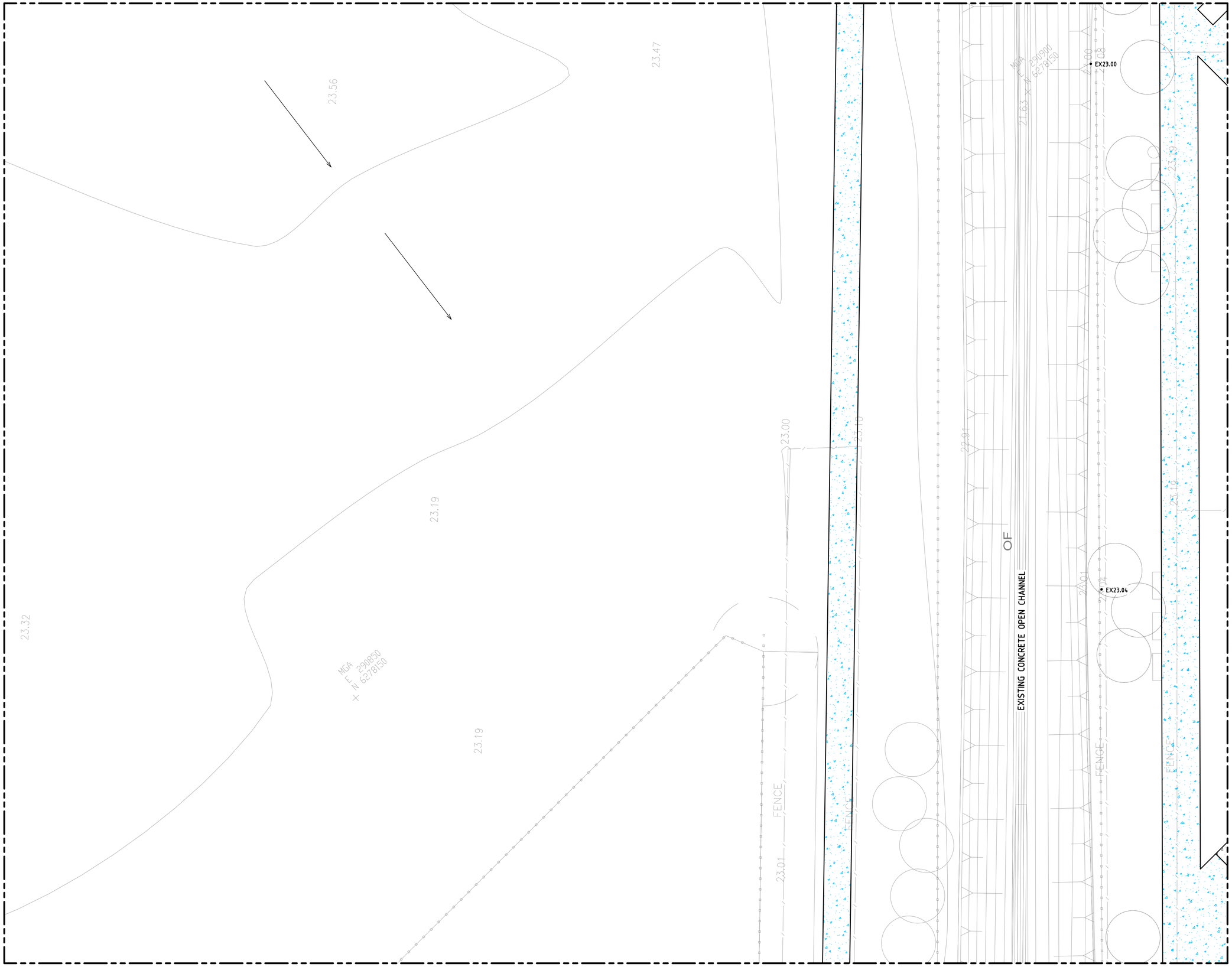

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FOR CONTINUATION REFER TO DRAWING H-CV-DW-0211

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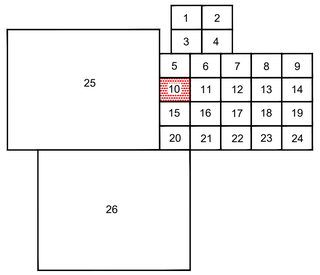

Issue

No.	Date	Description	Chkd
A	22.10.21	90% PROGRESS ISSUE	

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Drawing Title

CIVIL WORKS PLAN - SHEET 10

Date OCTOBER 2021

Scale 1:100 FOR A1

Drawing Reference H-CV-DW-0210

Revision A

0 10 20 30 40 50 60 70 80 90 100

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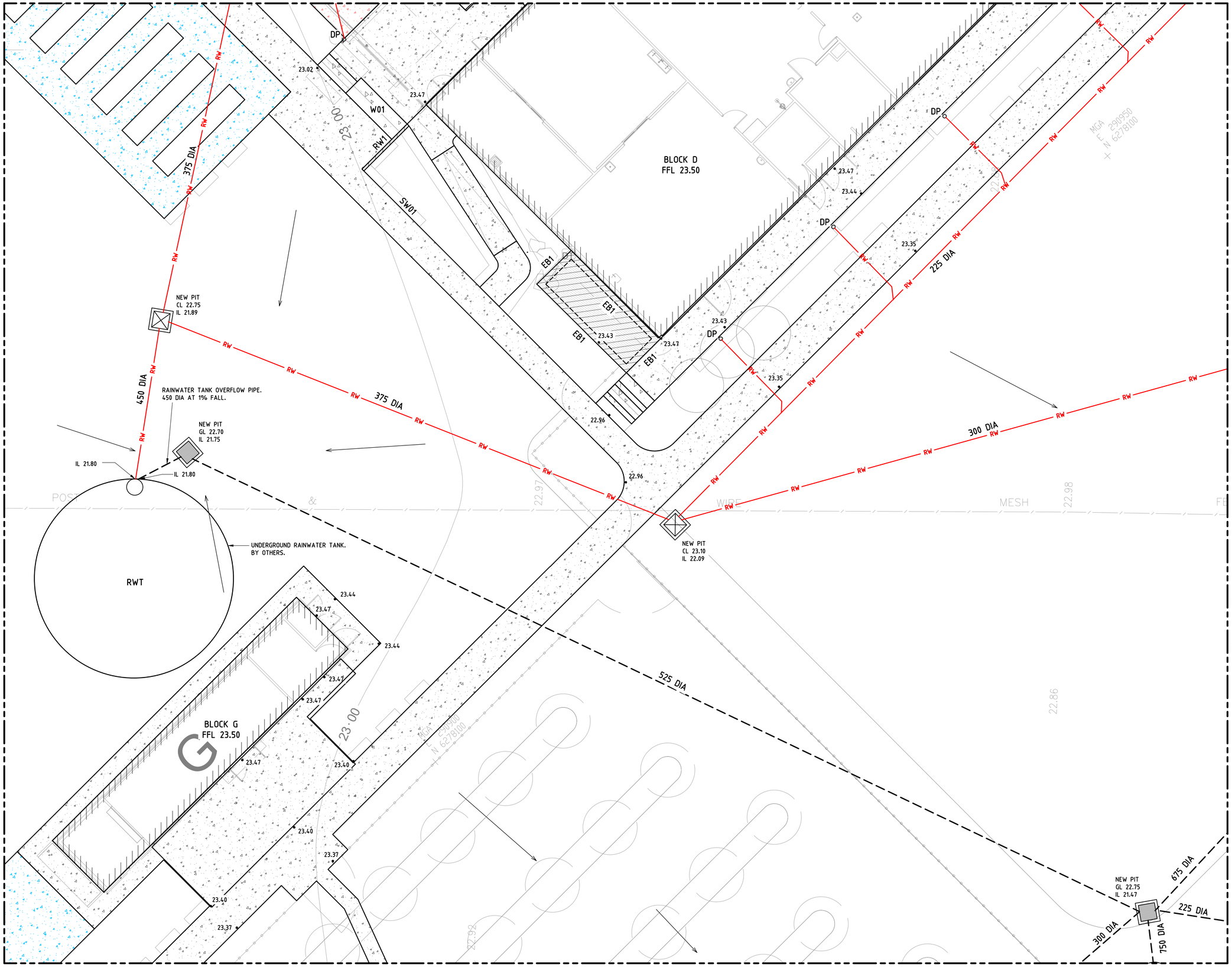

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FOR CONTINUATION REFER TO DRAWING H-CV-DW-0212

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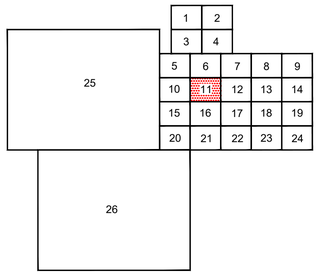

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No.	Date	Description	Chkd
A	22.10.21	90% PROGRESS ISSUE	

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CIVIL WORKS PLAN - SHEET 11

Date OCTOBER 2021

Scale 1:100 FOR A1

Drawing Reference H-CV-DW-0211

Revision A

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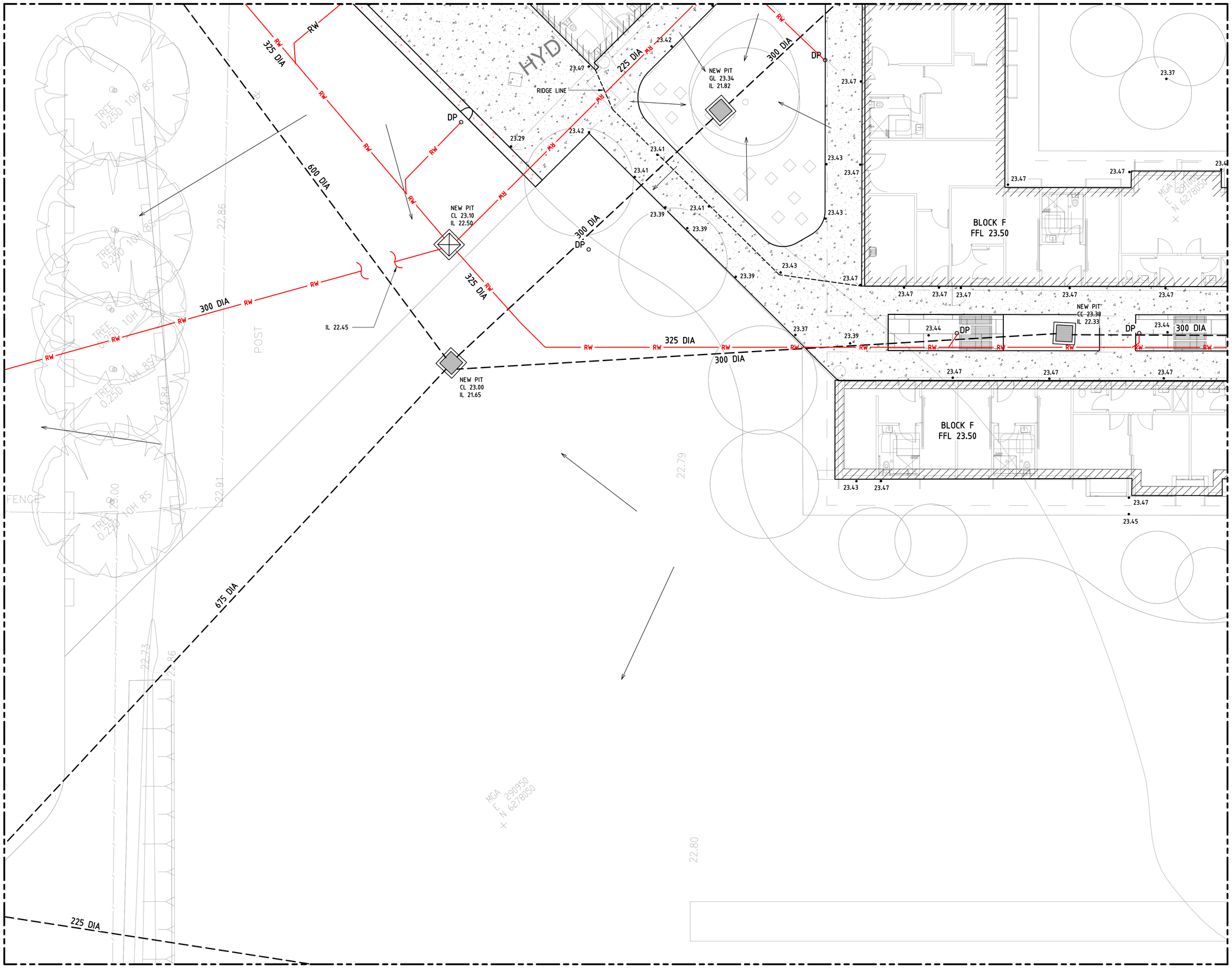

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FOR CONTINUATION REFER TO DRAWING H-CV-DW-0213

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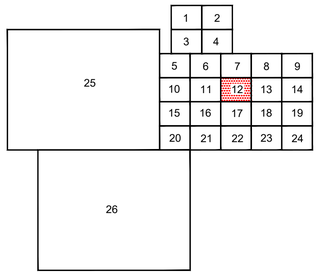

Issue

No.	Date	Description	Chkd
A	22.10.21	90% PROGRESS ISSUE	

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CIVIL WORKS PLAN - SHEET 12

Date OCTOBER 2021
Scale 1:100 FOR A1

Drawing Reference H-CV-DW-0212

Revision A

0 10 20 30 40 50 60 70 80 90 100

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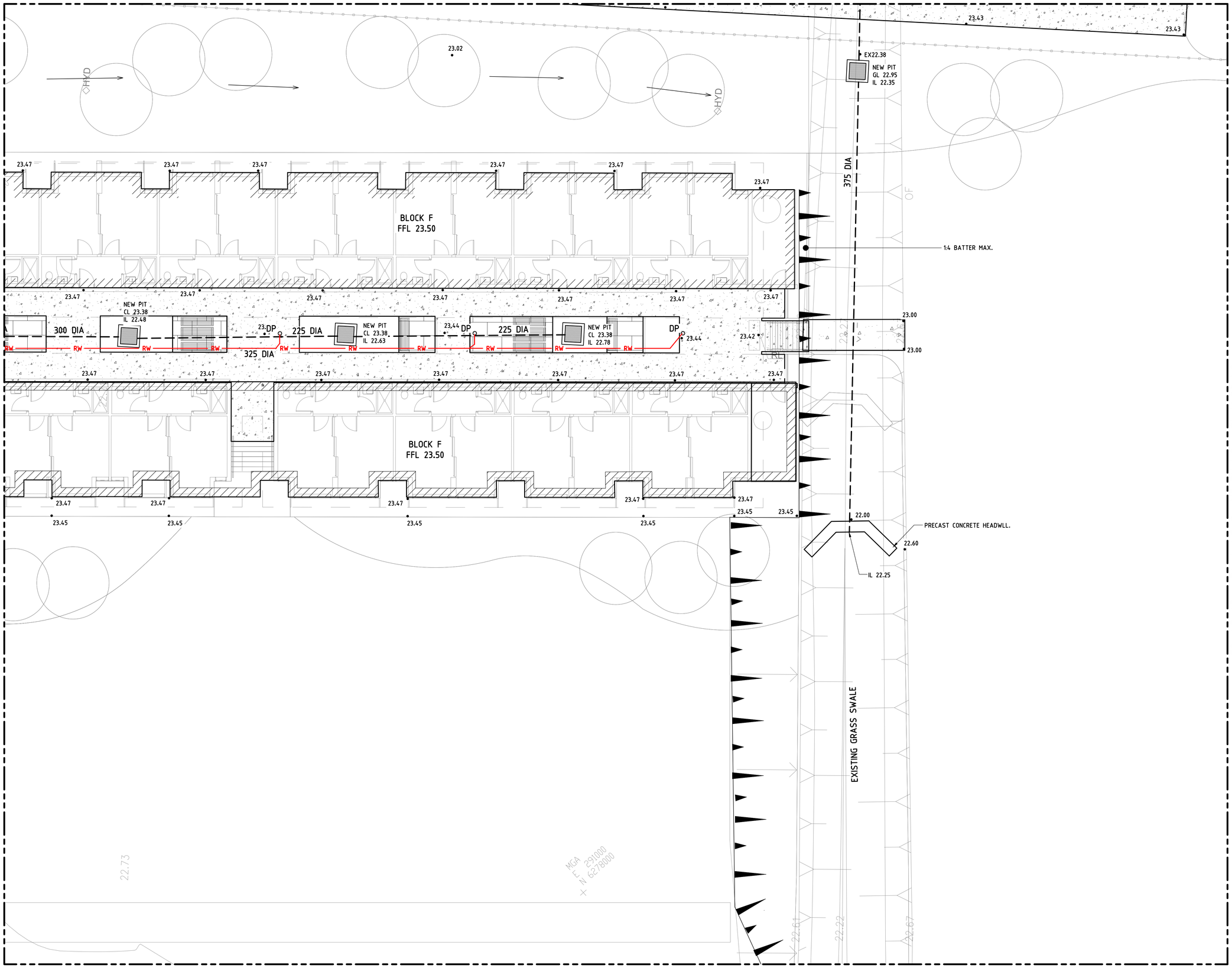
FOR CONTINUATION REFER TO DRAWING H-CV-DW-0208



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FOR CONTINUATION REFER TO DRAWING H-CV-DW-0214

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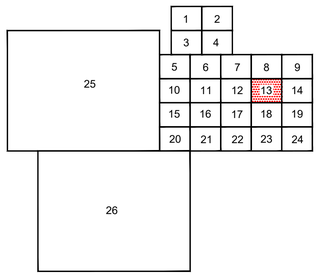

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No.	Date	Description	Chkd
A	22.10.21	90% PROGRESS ISSUE	

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Drawing Title

CIVIL WORKS PLAN - SHEET 13

Date OCTOBER 2021
Scale 1:100 FOR A1

Drawing Reference H-CV-DW-0213

Revision A

0 10 20 30 40 50 60 70 80 90 100

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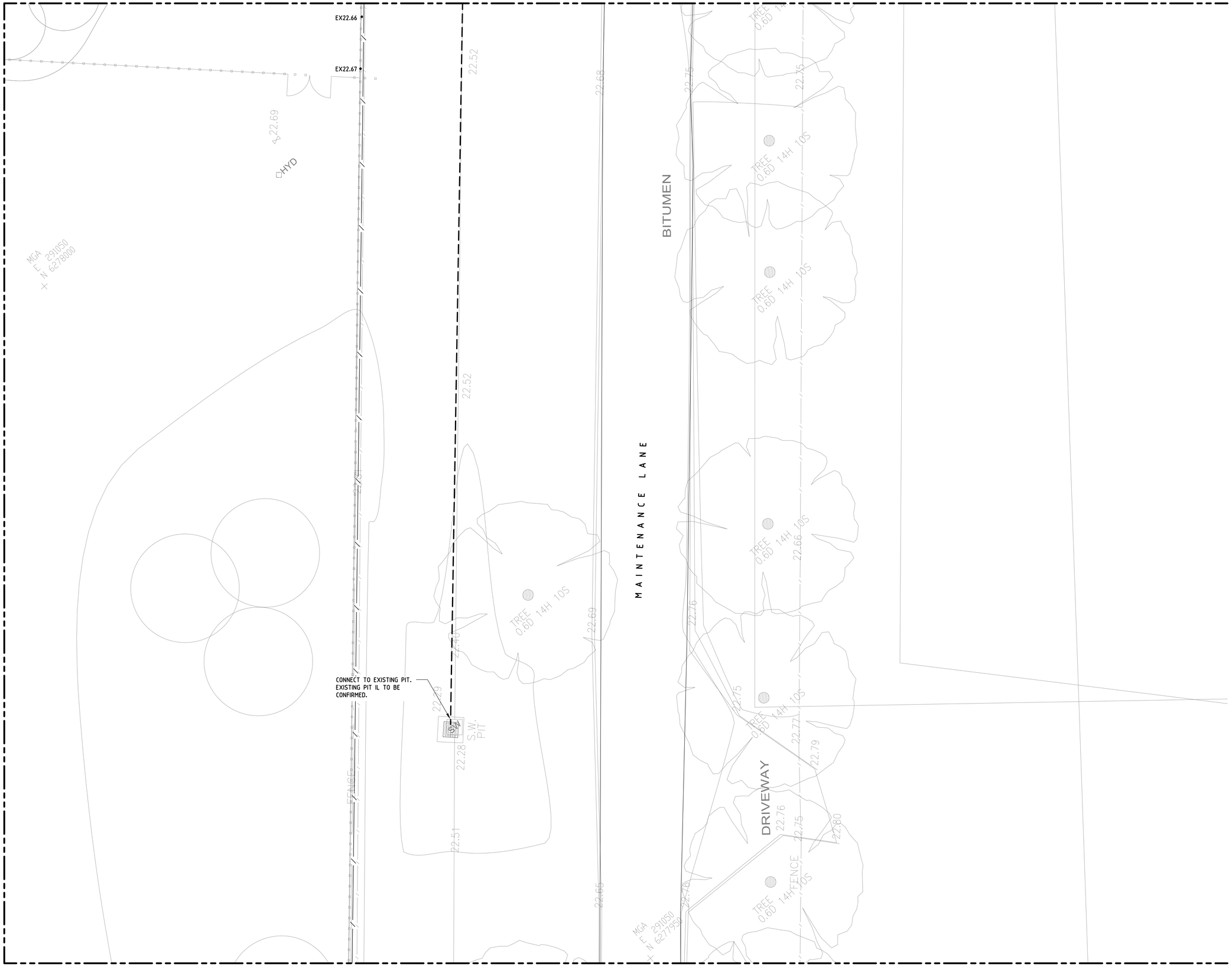

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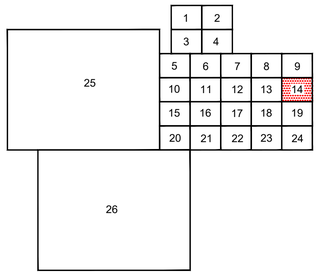

Issue

No.	Date	Description	Chkd
A	22.10.21	90% PROGRESS ISSUE	

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Drawing Title

CIVIL WORKS PLAN - SHEET 14

Date OCTOBER 2021
Scale 1:100 FOR A1

Drawing Reference
H-CV-DW-0214

Revision
A

0 10 20 30 40 50 60 70 80 90 100

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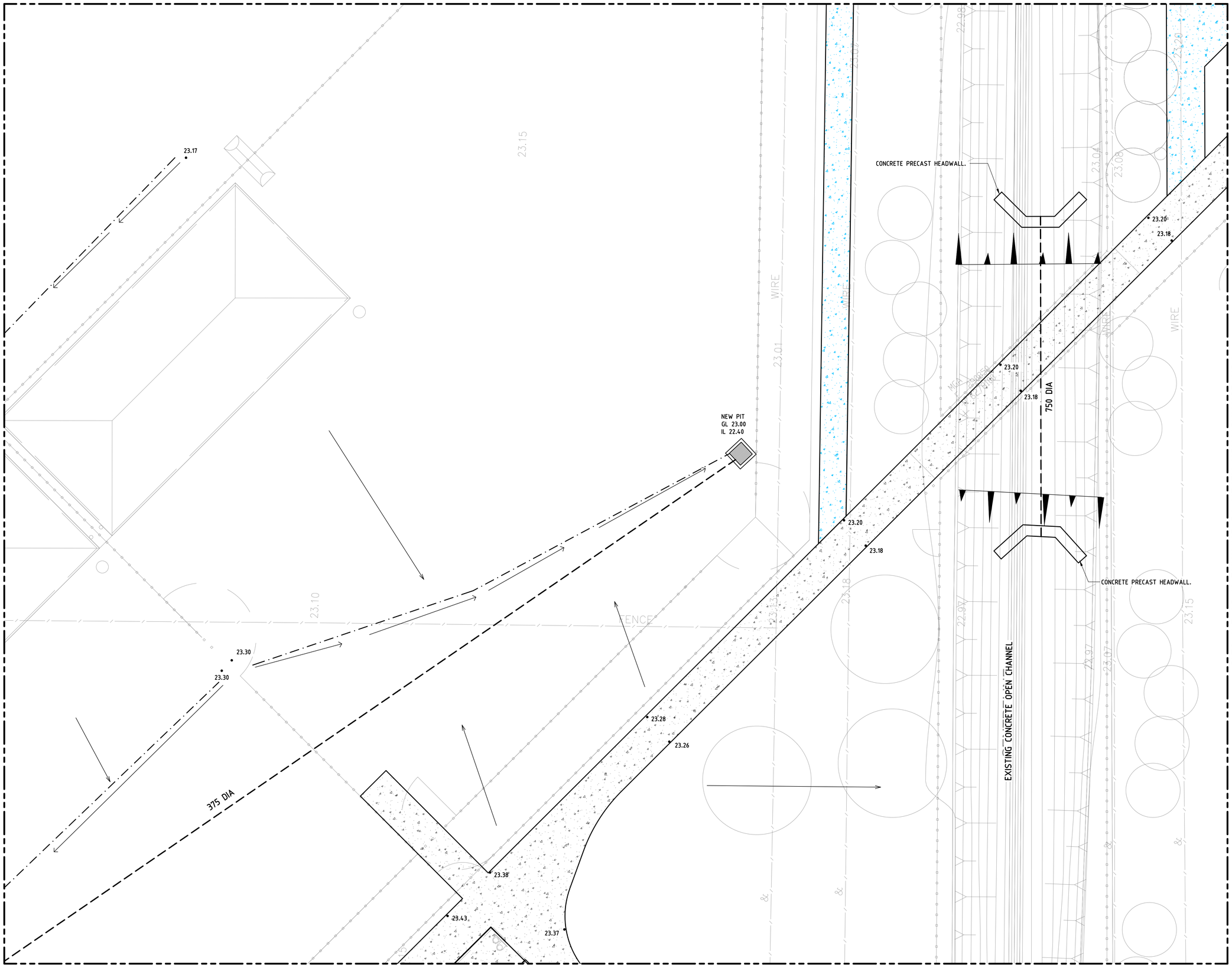
FOR CONTINUATION REFER TO DRAWING H-CV-DW-0210

FOR CONTINUATION REFER TO DRAWING H-CV-DW-0225

FOR CONTINUATION REFER TO DRAWING H-CV-DW-0216



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	3	4			
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	10	11	12	13	14
	15	16	17	18	19
	20	21	22	23	24
26					

Issue

No.	Date	Description	Chkd
A	22.10.21	90% PROGRESS ISSUE	

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Drawing Title

CIVIL WORKS PLAN - SHEET 15

Date OCTOBER 2021

Scale 1:100 FOR A1

Drawing Reference H-CV-DW-0215

Revision A

0 10 20 30 40 50 60 70 80 90 100

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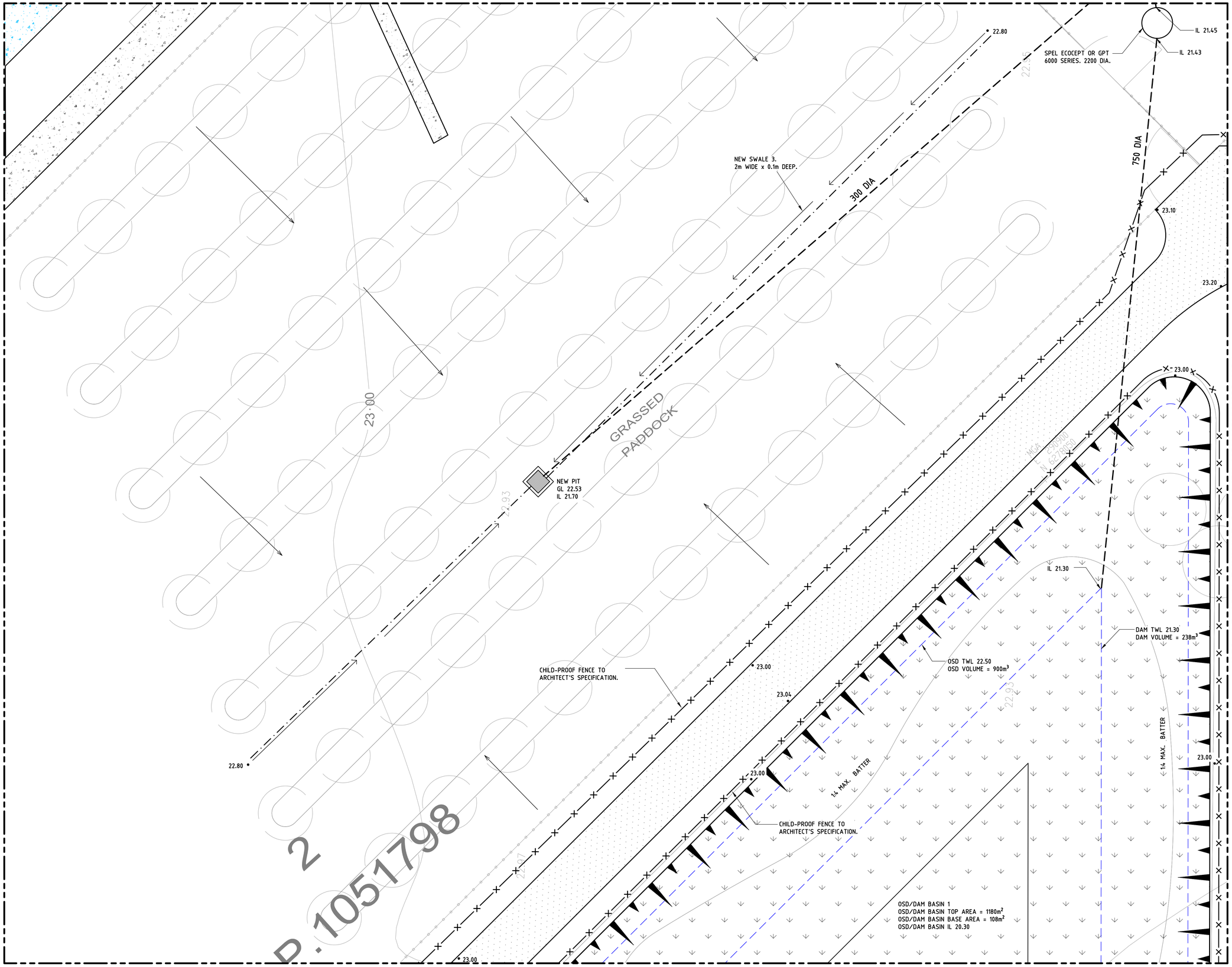
FOR CONTINUATION REFER TO DRAWING H-CV-DW-0211



FOR CONTINUATION REFER TO DRAWING H-CV-DW-0215

FOR CONTINUATION REFER TO DRAWING H-CV-DW-0217

FOR CONTINUATION REFER TO DRAWING H-CV-DW-0221

1	2			
3	4			
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15	16	17	18	19
20	21	22	23	24

25

26

Issue

No.	Date	Description	Chkd
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Drawing Title

CIVIL WORKS PLAN - SHEET 16

Date OCTOBER 2021

Scale 1:100 FOR A1

Drawing Reference H-CV-DW-0216

Revision A

0 10 20 30 40 50 60 70 80 90 100

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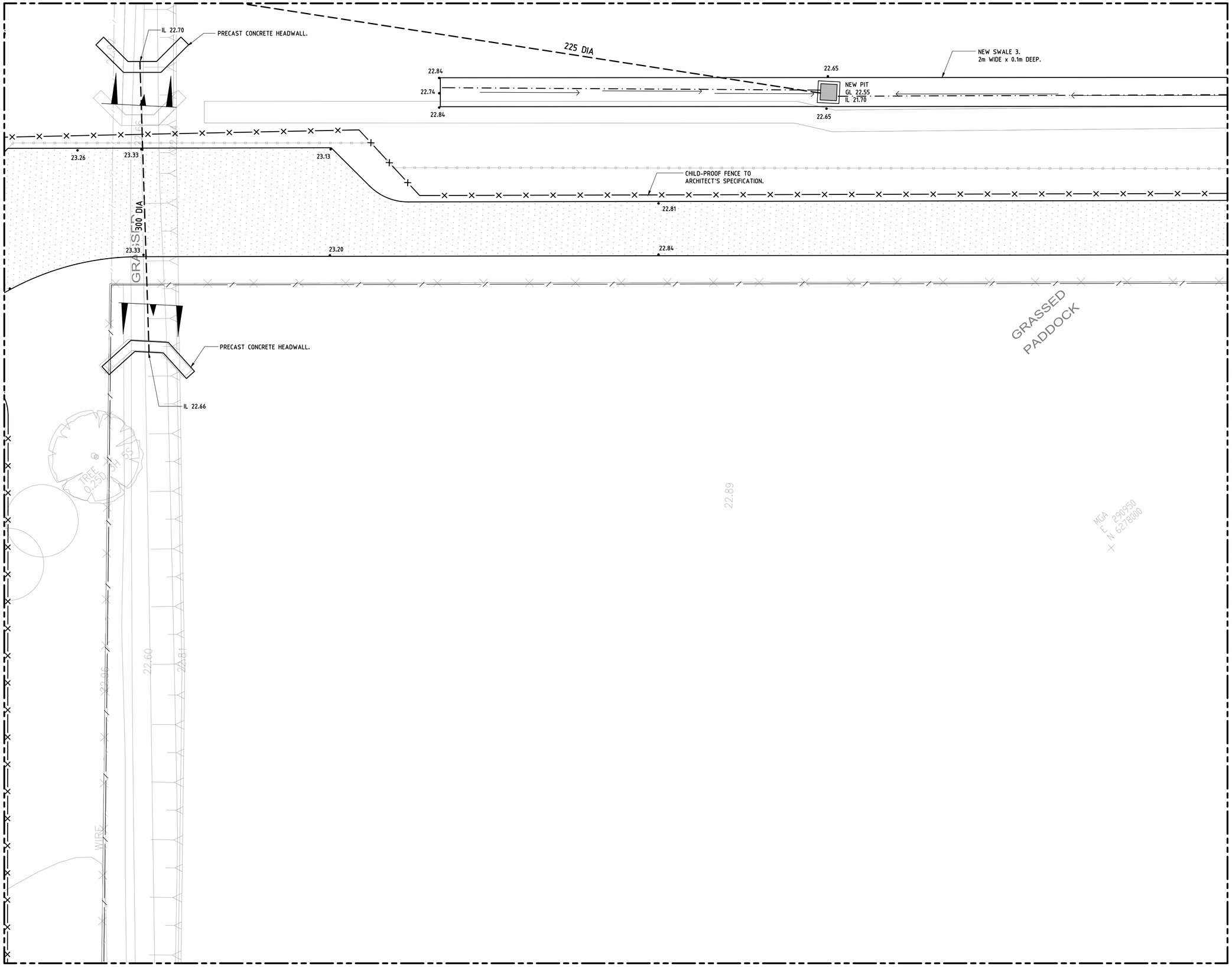

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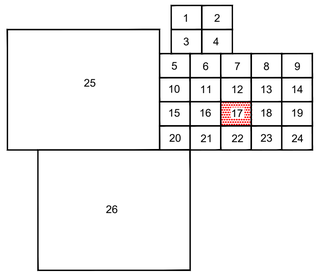

Issue

No.	Date	Description	Chkd
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Drawing Title

CIVIL WORKS PLAN - SHEET 17

Date OCTOBER 2021

Scale 1:100 FOR A1

Drawing Reference H-CV-DW-0217

Revision A

0 10 20 30 40 50 60 70 80 90 100

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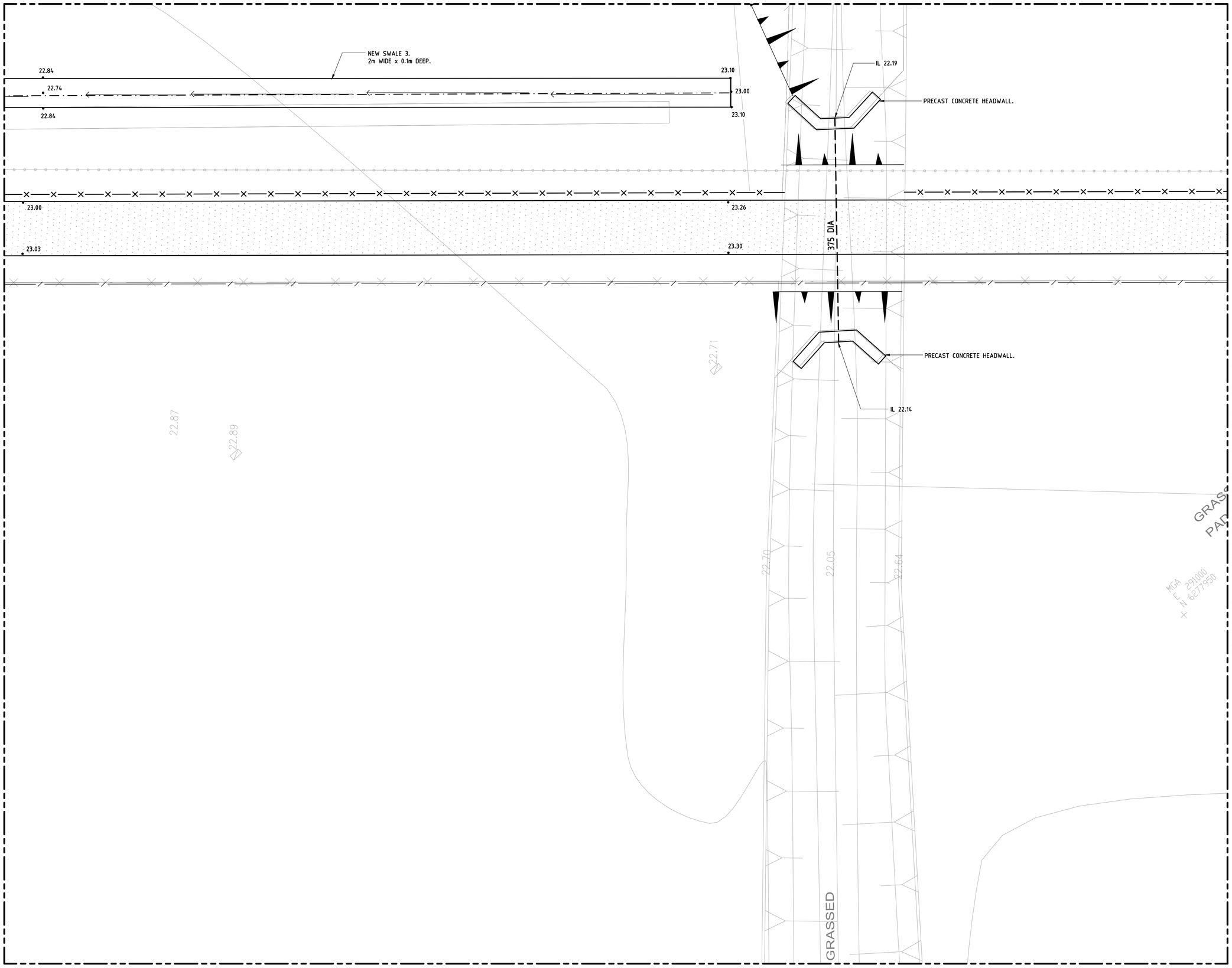
FOR CONTINUATION REFER TO DRAWING H-CV-DW-0213



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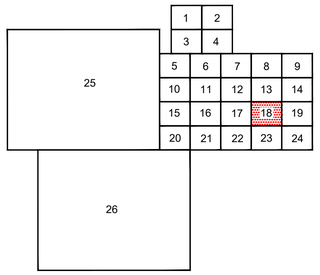

Issue

No.	Date	Description	Chkd
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Drawing Title

CIVIL WORKS PLAN - SHEET 18

Date OCTOBER 2021

Scale 1:100 FOR A1

Drawing Reference H-CV-DW-0218

Revision A

0 10 20 30 40 50 60 70 80 90 100

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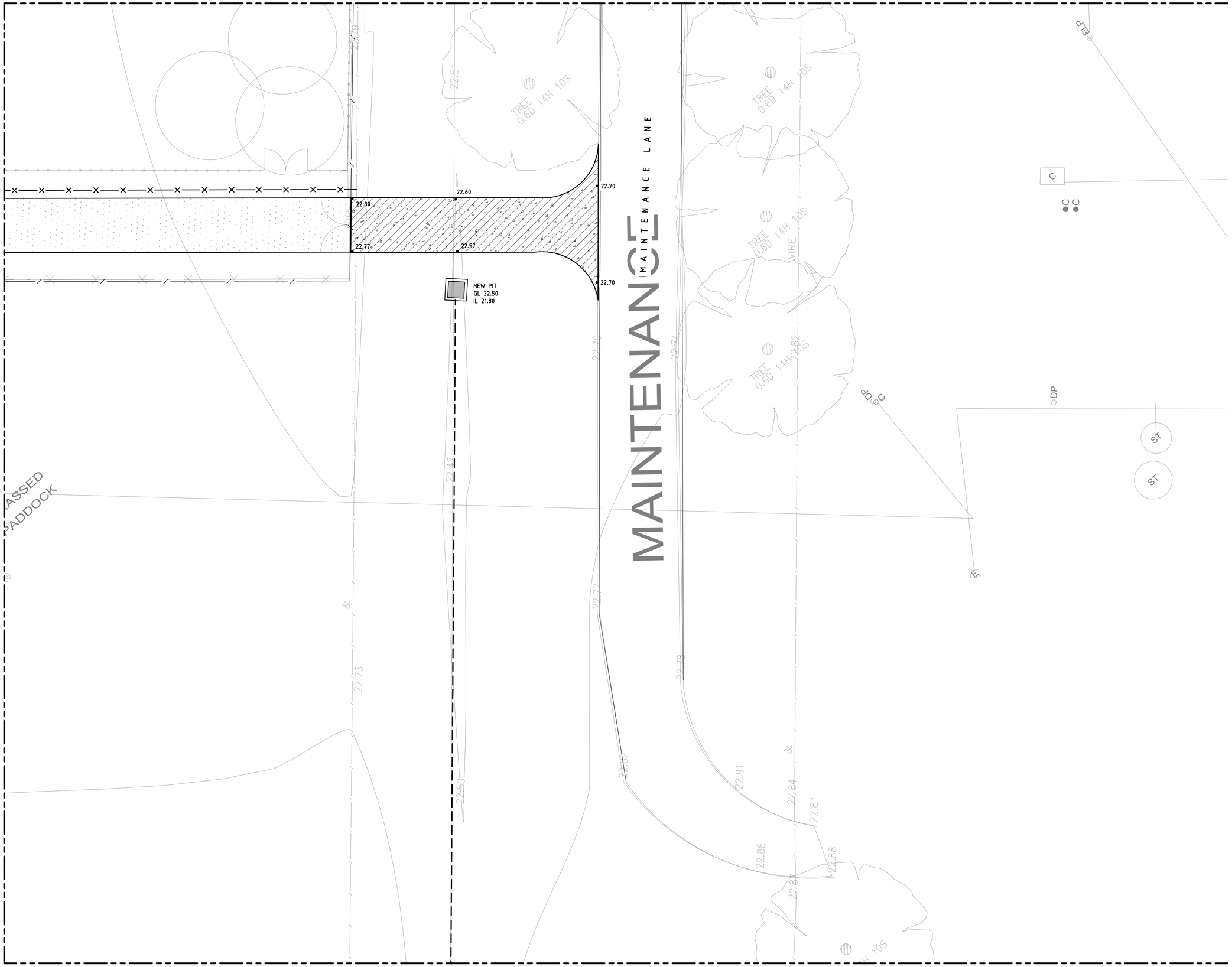

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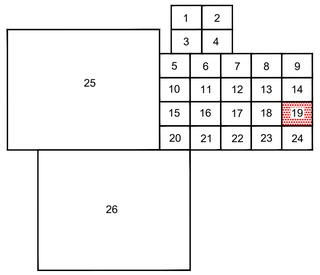

Issue

No.	Date	Description	Chkd
A	22.10.21	90% PROGRESS ISSUE	

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Drawing Title

CIVIL WORKS PLAN - SHEET 19

Date OCTOBER 2021

Scale 1:100 FOR A1

Drawing Reference H-CV-DW-0219

Revision A

0 10 20 30 40 50 60 70 80 90 100

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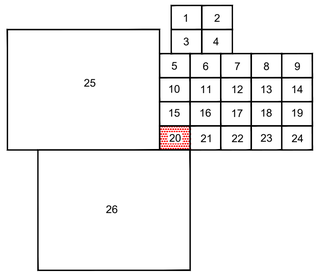

Issue

No.	Date	Description	Chkd
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Drawing Title

CIVIL WORKS PLAN - SHEET 20

Date OCTOBER 2021

Scale 1:100 FOR A1

Drawing Reference H-CV-DW-0220

Revision A

0 10 20 30 40 50 60 70 80 90 100

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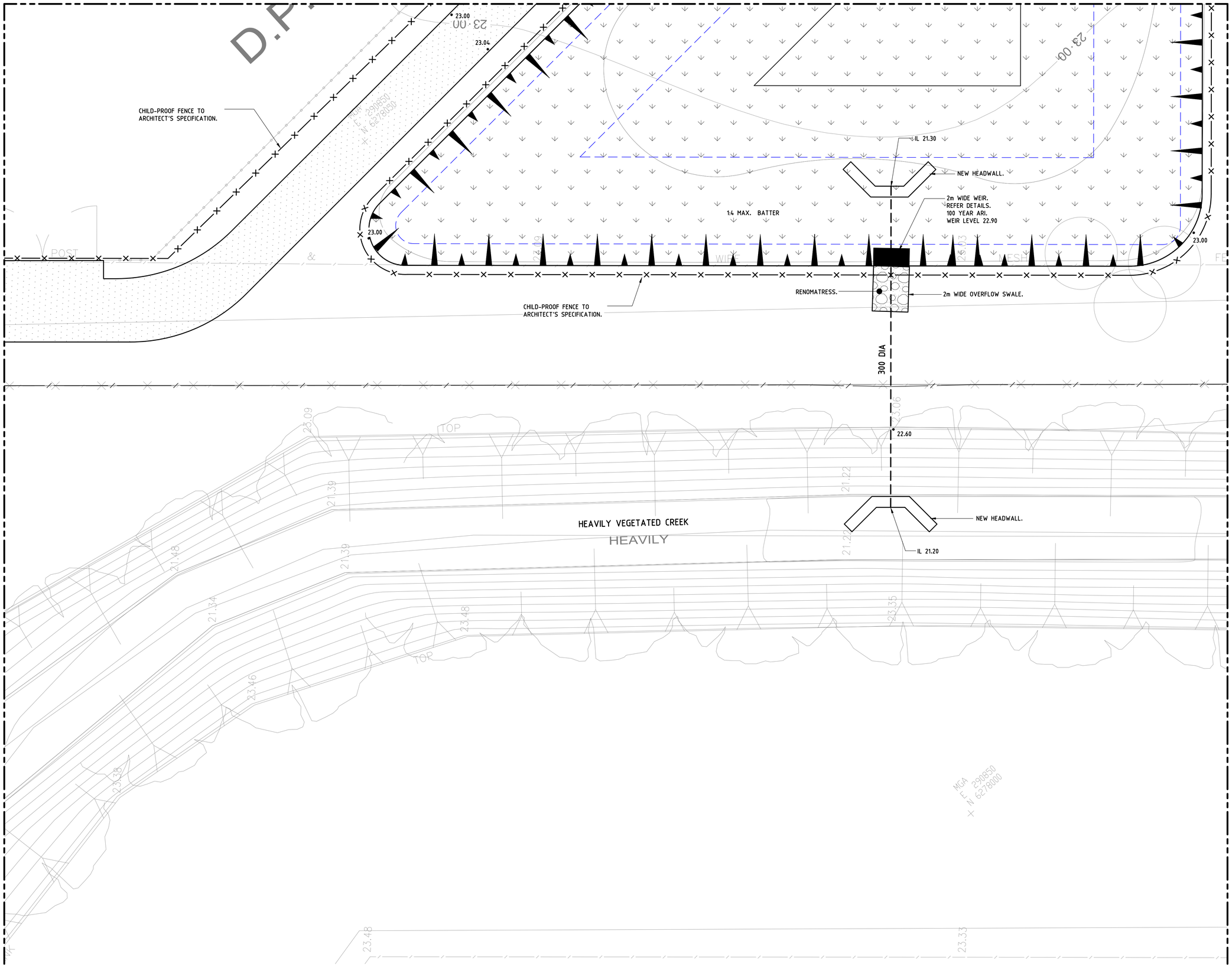
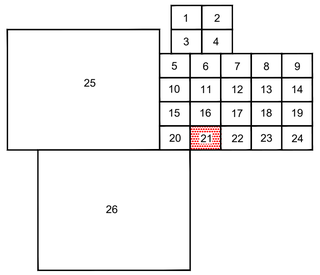
FOR CONTINUATION REFER TO DRAWING H-CV-DW-0216



FOR CONTINUATION REFER TO DRAWING H-CV-DW-0220

FOR CONTINUATION REFER TO DRAWING H-CV-DW-0222



Issue

No.	Date	Description	Chkd
A	22.10.21	90% PROGRESS ISSUE	

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Drawing Title

CIVIL WORKS PLAN - SHEET 21

Date OCTOBER 2021
Scale 1:100 FOR A1

Drawing Reference
H-CV-DW-0221

Revision
A

0 10 20 30 40 50 60 70 80 90 100

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FOR CONTINUATION REFER TO DRAWING H-CV-DW-0217

FOR CONTINUATION REFER TO DRAWING H-CV-DW-0221

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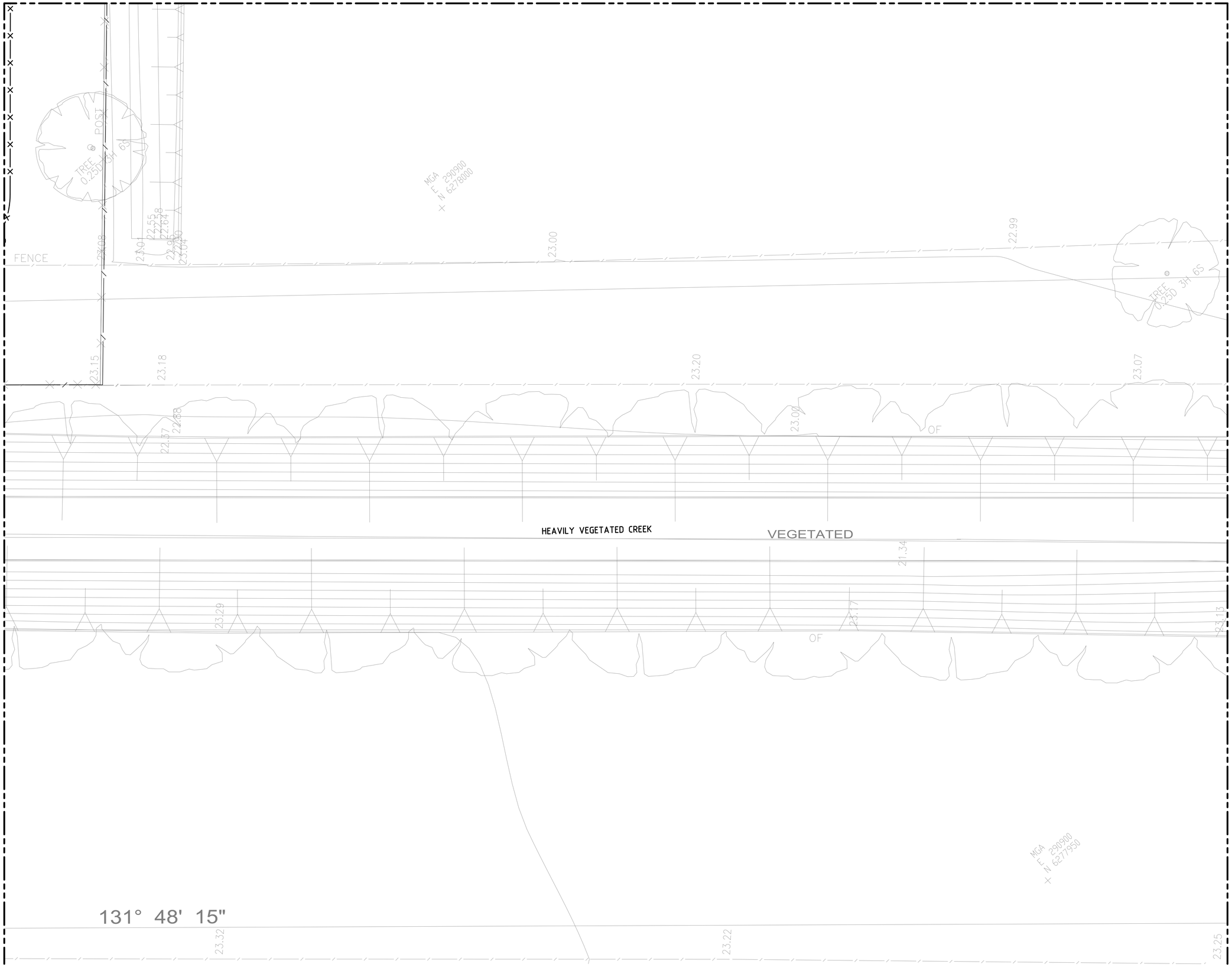

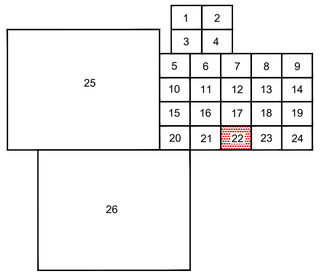

Issue

No.	Date	Description	Chkd
A	22.10.21	90% PROGRESS ISSUE	

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Andrew Duffin NSW 5602
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Project

Centre of Excellence in Agricultural Education

at

HAWKESBURY

for

DEPARTMENT OF EDUCATION

Drawing Title

CIVIL WORKS PLAN - SHEET 22

Date OCTOBER 2021

Scale 1:100 FOR A1

Drawing Reference H-CV-DW-0222

Revision A

0 10 20 30 40 50 60 70 80 90 100

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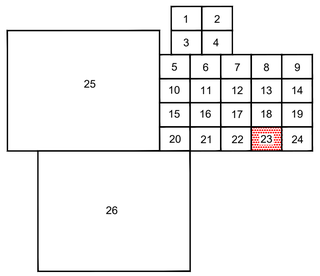
FOR CONTINUATION REFER TO DRAWING H-CV-DW-0218

FOR CONTINUATION REFER TO DRAWING H-CV-DW-0222

FOR CONTINUATION REFER TO DRAWING H-CV-DW-0224



Issue

No.	Date	Description	Chkd
A	22.10.21	90% PROGRESS ISSUE	

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Drawing Title

CIVIL WORKS PLAN - SHEET 23

Date OCTOBER 2021

Scale 1:100 FOR A1

Drawing Reference H-CV-DW-0223

Revision A

0 10 20 30 40 50 60 70 80 90 100

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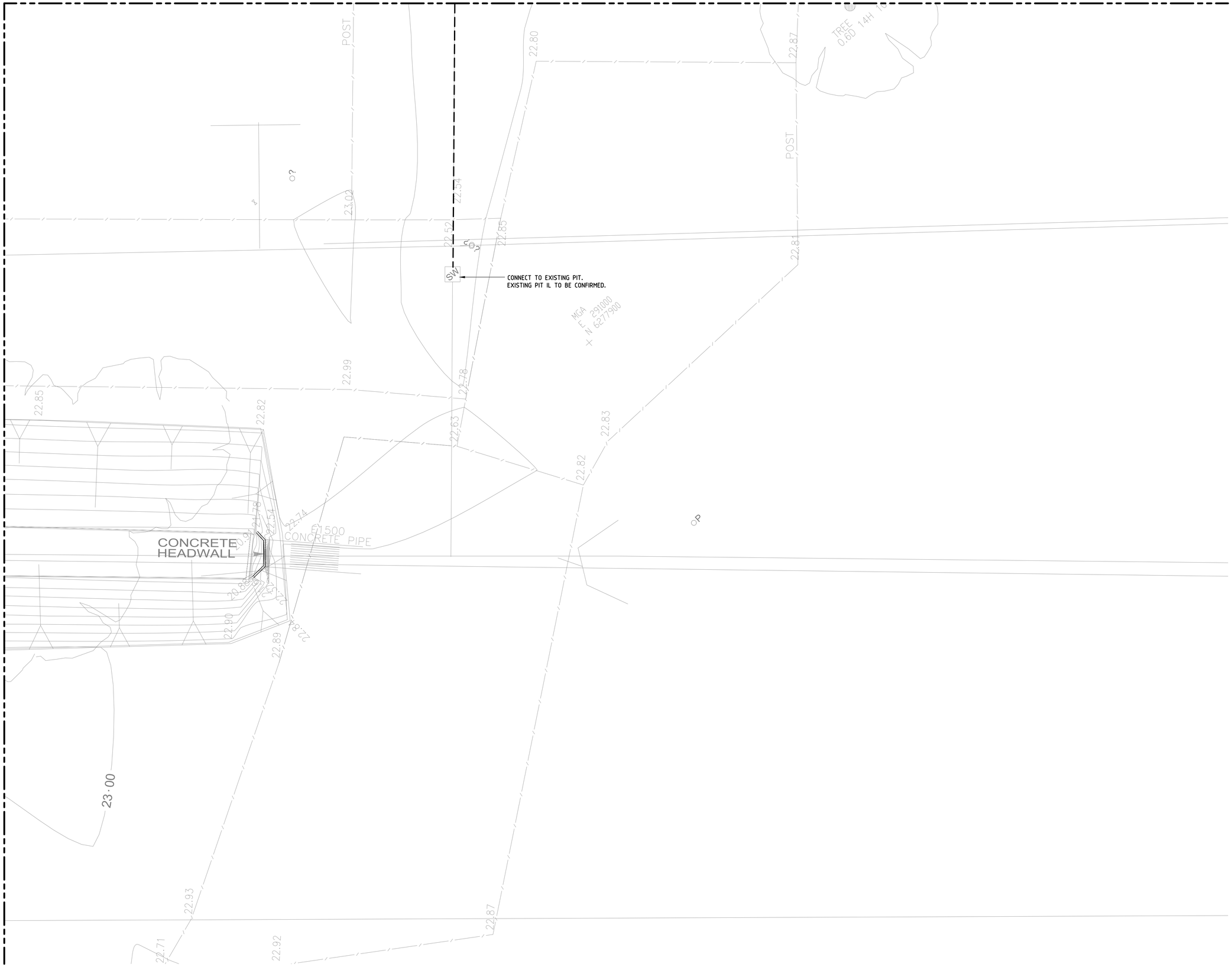
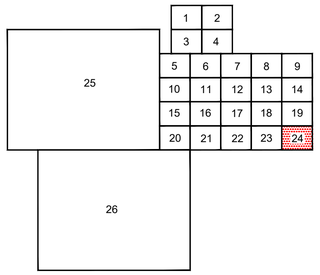
FOR CONTINUATION REFER TO DRAWING H-CV-DW-0219

FOR CONTINUATION REFER TO DRAWING H-CV-DW-0223





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No.	Date	Description	Chkd
A	22.10.21	90% PROGRESS ISSUE	

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Drawing Title

CIVIL WORKS PLAN - SHEET 24

Date OCTOBER 2021
Scale 1:100 FOR A1

Drawing Reference
H-CV-DW-0224

Revision
A

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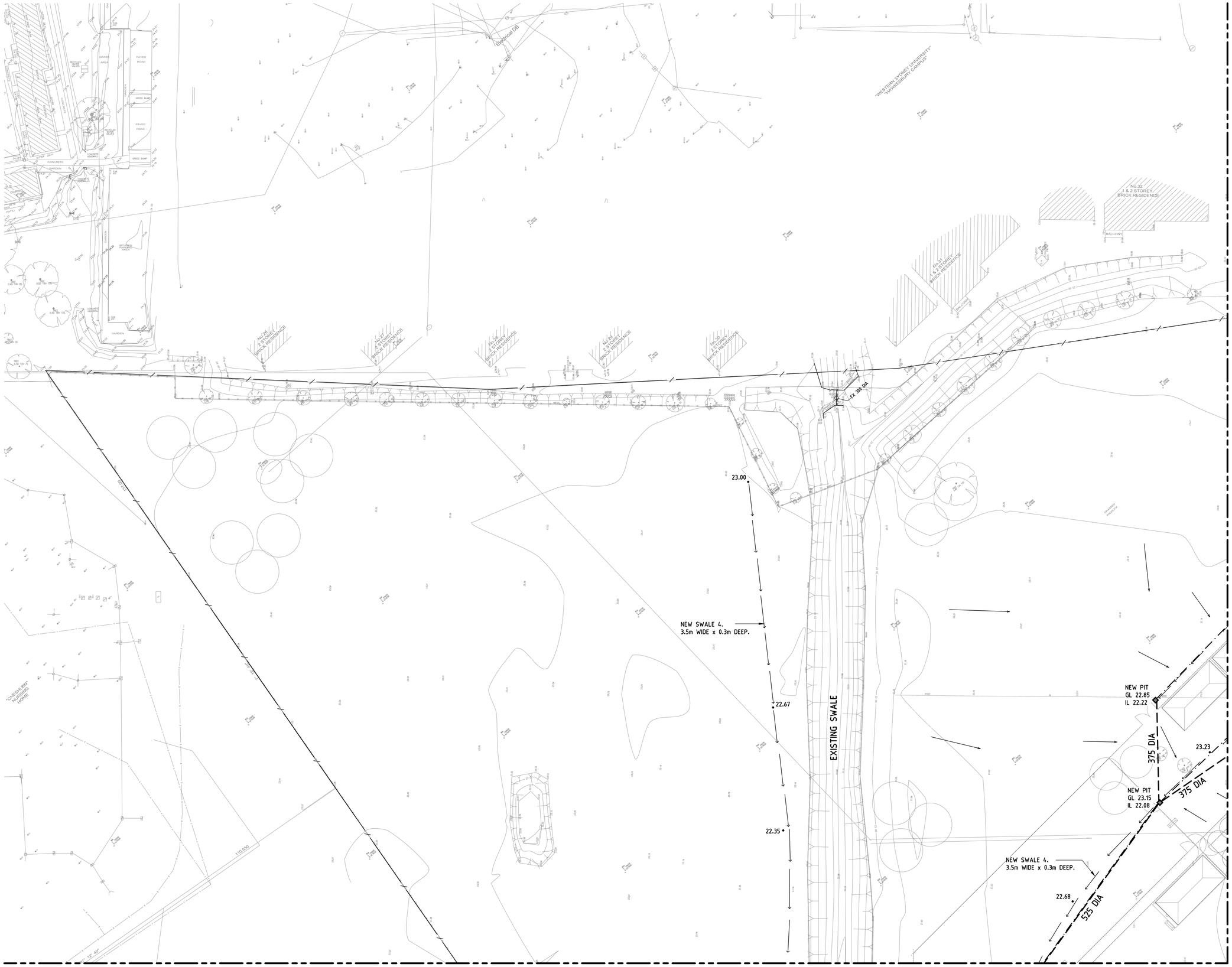

FOR CONTINUATION REFER TO DRAWING H-CV-DW-0205, 0210, 0215 & 0220

FOR CONTINUATION REFER TO DRAWING H-CV-DW-0226

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20	21	22	23	24
25				
26				

Issue

No.	Date	Description	Chkd
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CIVIL WORKS PLAN - SHEET 25

Date OCTOBER 2021

Scale 1:500 FOR A1

Drawing Reference H-CV-DW-0225

Revision A

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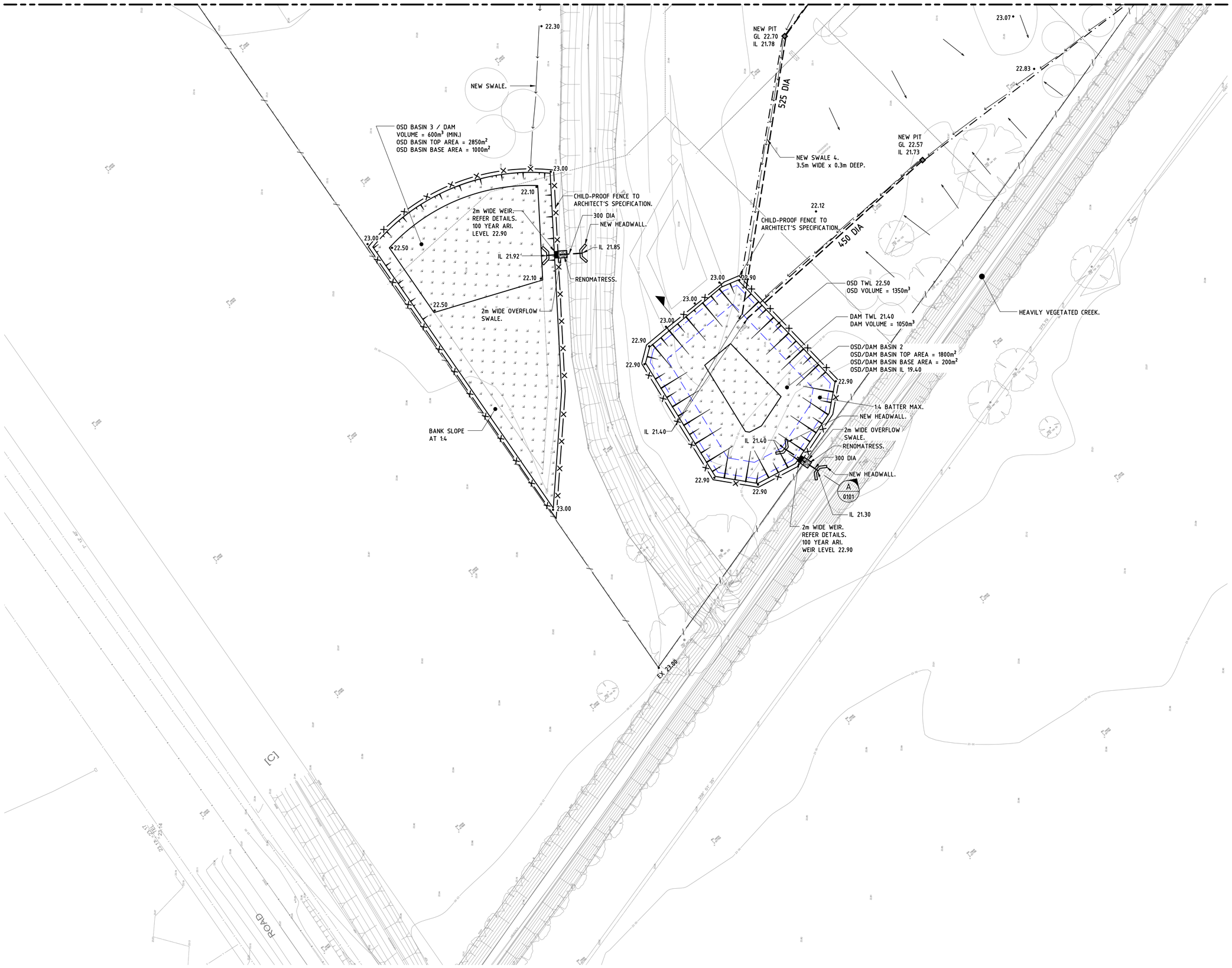

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26				

Issue

No.	Date	Description	Chkd
A	22.10.21	90% PROGRESS ISSUE	

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Drawing Title

CIVIL WORKS PLAN - SHEET 26

Date OCTOBER 2021
Scale 1:500 FOR A1

Drawing Reference
H-CV-DW-0226

Revision
A

0 10 20 30 40 50 60 70 80 90 100