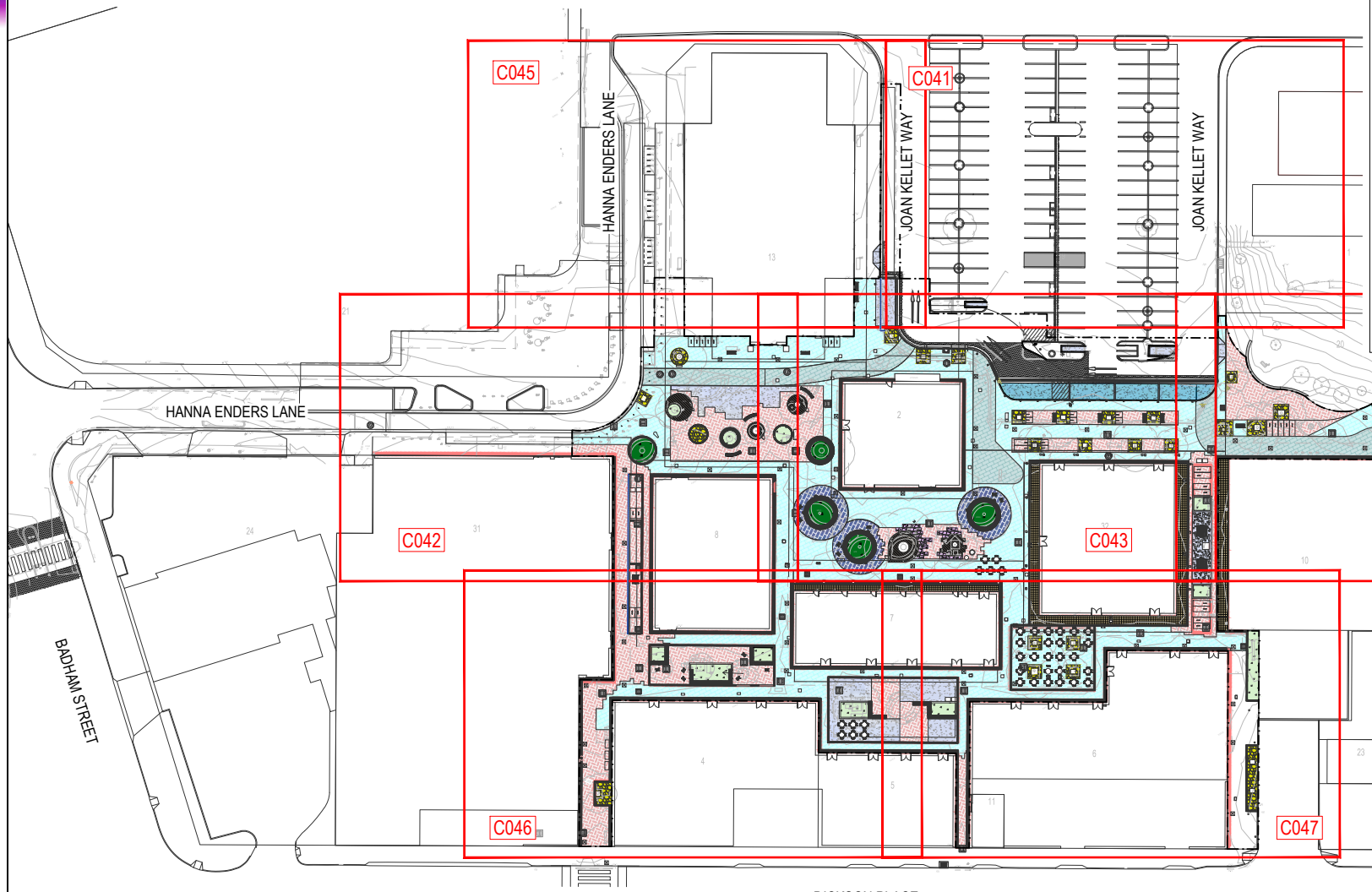
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8 4 0 8 16 24m
1:400

Binderra,9229

NOTE: THERE IS NO SURVEY AVAILABLE FOR THE EXISTING CAR PARK SURROUNDED BY JOAN KELLET WAY, SO ALL OUTLINES ARE INDICATIVE DETAILED FEATURE SURVEY AND UNDERGROUND SERVICES LOCATION MUST BE COMPLETED TO CONFIRM DESIGN INTENT AND SITE SETOUT FOR THE EXISTING CAR PARK AREA (SECTION 30 BLOCK 19) AND NEW INSTALLATIONS, PRIOR TO ANY SITE WORKS COMMENCING.



NOTES:

1. REFER TO DRAWING PS208025-C000 FOR DRAWING LIST. REFER TO DRAWING PS208025-C001 FOR GENERAL NOTES AND REQUIREMENTS.
2. THE SUBBASE LAYER SHALL EXTEND A MINIMUM OF 150mm BEHIND THE REAR FACE OF ANY KERBING AND/OR GUTTERING.
3. THE PAVEMENT, BASE AND SURFACING SHALL EXTEND TO BEHIND THE FACE OF ANY KERBING AND/OR GUTTERING. WHERE THE TOP SURFACE OF THE SUBBASE LAYER IS BELOW THE LEVEL OF THE UNDERSIDE OF THE KERBING AND/OR GUTTERING, THE BASE LAYER SHALL ALSO EXTEND A MINIMUM OF 150mm BEHIND THE REAR FACE OF THE KERBING AND/OR GUTTERING.
4. ALL CONCRETE PAVEMENT JOINTS SHALL BE INSTALLED IN ACCORDANCE WITH THE JOINT DETAIL AND ACCOMPANYING NOTES. THE CONTRACTOR IS TO ALLOW FOR TRANSVERSE AND LONGITUDINAL, CONTRACTION AND ISOLATION JOINT, INCLUDING ANY SEALANTS, STEEL REINFORCEMENT AND DOWEL BARS REQUIRED.
5. THE CONTRACTOR SHALL ALLOW FOR BENCHING OF FLEXIBLE PAVEMENT LAYERS, AND FOR SUPPLY, PLACEMENT, COMPACTION, AND TESTING OF NEW PAVEMENT MATERIALS AND QUALITY CONTROL DURING THE WORKS.
6. THE CONTRACTOR IS TO ALLOW FOR ANY TEMPORARY WORKS REQUIRED FOR INTERIM STAGES, INCLUDING CONSTRUCTION OF TEMPORARY ACCESS ROADS, LAYING OF SACRIFICIAL PAVEMENT BASE FOR CONSTRUCTION TRAFFIC, AND MAKING GOOD DISTURBED AREAS FOLLOWING COMPLETION OF THE WORKS, STAGE.
7. THE CONTRACTOR SHALL REVIEW AVAILABLE GEOTECHNICAL INVESTIGATION AND REPORTING AND IMPLEMENT ALL REQUIREMENTS AND RECOMMENDATIONS MAKING REFERENCE TO FOLLOWING DOCUMENT:
   - GEOTECHNICAL INVESTIGATION REPORT BY FORTIFY GEOTECH REF AP/C15916
8. ALL FLEXIBLE PAVEMENTS ARE TO BE INSTALLED IN ACCORDANCE WITH THE LATEST VERSION OF MUNICIPAL INFRASTRUCTURE TECHNICAL SPECIFICATION 04 - FLEXIBLE PAVEMENTS
9. ALL SEGMENTAL PAVEMENTS ARE TO BE INSTALLED IN ACCORDANCE WITH THE LATEST VERSION OF MUNICIPAL INFRASTRUCTURE TECHNICAL SPECIFICATION 07 - SEGMENTAL PAVEMENTS
10. ALL INSITU CONCRETE PAVEMENTS ARE TO BE INSTALLED IN ACCORDANCE WITH THE LATEST VERSION OF MUNICIPAL INFRASTRUCTURE TECHNICAL SPECIFICATION 10 - CONCRETE WORKS

LEGEND:

- CONCRETE UNITS PAVING (PEDESTRIAN) (PV01)
- CONCRETE UNITS PAVING (VEHICULAR) (PV01V)
- RECYCLED BRICK PAVING (VEHICULAR) (PV02V)
- IN-SITU CONCRETE PAVING (PV03)
- IN-SITU CONCRETE PAVING (VEHICULAR) (PV03V)
- RECYCLED BRICK PAVING (PEDESTRIAN) (PV02)
- EXISTING SQUARE CLAY PAVERS
- FLUSH GARDEN BED (TO LANDSCAPE SPECIFICATIONS)
- RAISED GARDEN BED (TO LANDSCAPE SPECIFICATIONS)
- MULCH TO TREE BASE (TO LANDSCAPE SPECIFICATIONS)
- PERMEABLE UNIT PAVING (PV06)
- FEATURE CONCRETE UNIT PAVING (PV04)
- RECYCLED BRICK LANDSCAPE ELEMENT (TO LANDSCAPE SPECIFICATIONS)
- ASPHALT SURFACING (PV09-A) (HEAVY DUTY)
- TIMBER DECK (TO LANDSCAPE SPECIFICATIONS)
- ASPHALT SURFACING (PV09-B) (LIGHT DUTY)
- POROUS PAVING (TO LANDSCAPE SPECIFICATIONS)

SERVICE CLASHES
CONTRACTOR TO REFER TO SERVICES DOCUMENTATION AND LIAISE WITH THE RELEVANT AUTHORITY TO MITIGATE ANY SERVICE CLASHES WITH THE PROPOSED WORKS.

WARNING
BEWARE OF UNDERGROUND SERVICES.
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REV	DATE	BY	DESCRIPTION	CHK	APP
P8	28/05/2025	J.C	DESIGN ACCEPTANCE ISSUE	M.B	J.L
P7	24/04/2025	J.C	100% DOCUMENT READINESS	MB	J.L
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P4	31/01/2025	J.C	100% DOCUMENT READINESS	J.L	J.L
P3	08/11/2024	J.C	DOCUMENT READINESS (75%)	M.B	J.L
P2	02/10/2024	J.C	FINAL FSP ISSUE	J.L	J.L
P1	16/09/2024	J.C	DRAFT FSP ISSUE	J.L	J.L

DRAWING STATUS: **FOR APPROVAL**
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http://www.wsp.com

CLIENT: ACT Government — CITY RENEWAL AUTHORITY

ARCHITECT: OCULUS

PROJECT: DICKSON SHOPS AND STREETSCAPE

TITLE: PAVEMENT LAYOUT OVERALL LAYOUT PLAN

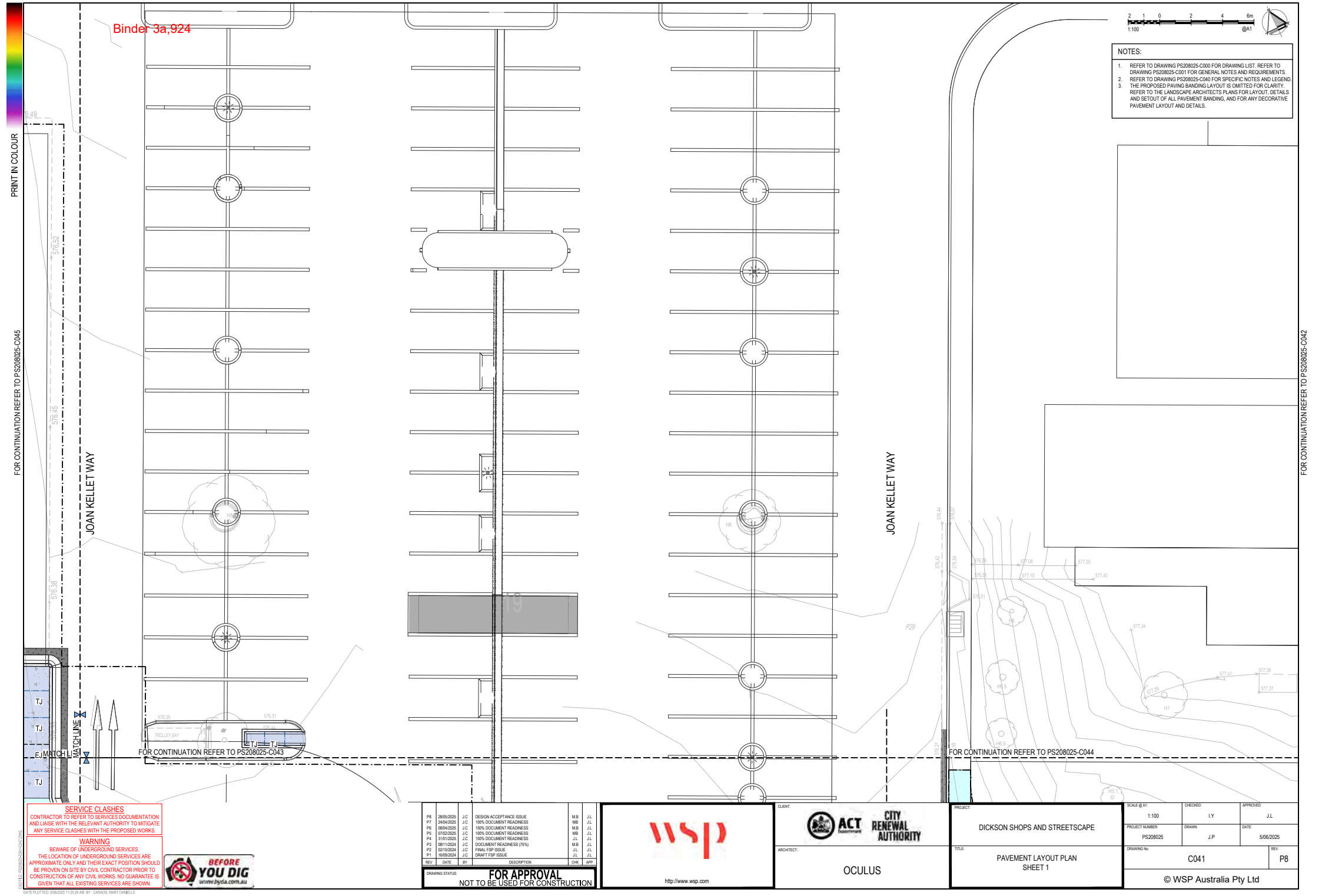
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PROJECT NUMBER:	DRAWN:	DATE:
PS208025	J.P	10/06/2025
DRAWING No:		REV:
C040		P8

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DATE PLOTTED: 10/06/2025 11:28:03 AM BY: CABOTINO, JAYVEE

Binder 3a,924

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NOTES:

1. REFER TO DRAWING PS208025-C000 FOR DRAWING LIST. REFER TO DRAWING PS208025-C001 FOR GENERAL NOTES AND REQUIREMENTS.
2. REFER TO DRAWING PS208025-C040 FOR SPECIFIC NOTES AND LEGEND.
3. THE PROPOSED PAVING BANDING LAYOUT IS OMITTED FOR CLARITY. REFER TO THE LANDSCAPE ARCHITECTS PLANS FOR LAYOUT, DETAILS AND SETOUT OF ALL PAVEMENT BANDING, AND FOR ANY DECORATIVE PAVEMENT LAYOUT AND DETAILS.

SERVICE CLASHES
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P7	24/04/2025	J.C	100% DOCUMENT READINESS	MB	J.L
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P5	07/02/2025	J.C	100% DOCUMENT READINESS	MB	J.L
P4	31/01/2025	J.C	100% DOCUMENT READINESS	J.L	J.L
P3	08/11/2024	J.C	DOCUMENT READINESS (75%)	M.B	J.L
P2	02/10/2024	J.C	FINAL FSP ISSUE	J.L	J.L
P1	16/09/2024	J.C	DRAFT FSP ISSUE	J.L	J.L

DRAWING STATUS: **FOR APPROVAL**
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http://www.wsp.com

CLIENT: ACT Government — CITY RENEWAL AUTHORITY

ARCHITECT: OCULUS

PROJECT: DICKSON SHOPS AND STREETSCAPE

TITLE: PAVEMENT LAYOUT PLAN SHEET 1

SCALE @ A1:	CHECKED:	APPROVED:
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PROJECT NUMBER:	DRAWN:	DATE:
PS208025	J.P	5/06/2025
DRAWING No:		REV:
C041		P8

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FOR CONTINUATION REFER TO PS208025-C043

FOR CONTINUATION REFER TO PS208025-C046

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21

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31

8

MATCH LINE

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NOTES:

1. REFER TO DRAWING PS208025-C000 FOR DRAWING LIST. REFER TO DRAWING PS208025-C001 FOR GENERAL NOTES AND REQUIREMENTS.
2. REFER TO DRAWING PS208025-C040 FOR SPECIFIC NOTES AND LEGEND.
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P7	24/04/2025	J.C	100% DOCUMENT READINESS	MB	J.L
P6	08/04/2025	J.C	100% DOCUMENT READINESS	M.B	J.L
P5	07/02/2025	J.C	100% DOCUMENT READINESS	MB	J.L
P4	31/01/2025	J.C	100% DOCUMENT READINESS	J.L	J.L
P3	08/11/2024	J.C	DOCUMENT READINESS (75%)	M.B	J.L
P2	02/10/2024	J.C	FINAL FSP ISSUE	J.L	J.L
P1	16/09/2024	J.C	DRAFT FSP ISSUE	J.L	J.L

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CLIENT: ACT Government — CITY RENEWAL AUTHORITY

ARCHITECT: OCULUS

PROJECT: DICKSON SHOPS AND STREETSCAPE

TITLE: PAVEMENT LAYOUT PLAN SHEET 2

SCALE @ A1:	CHECKED:	APPROVED:
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PROJECT NUMBER:	DRAWN:	DATE:
PS208025	J.P	5/06/2025
DRAWING No:		REV:
C042		P8

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FOR CONTINUATION REFER TO PS208025-C045

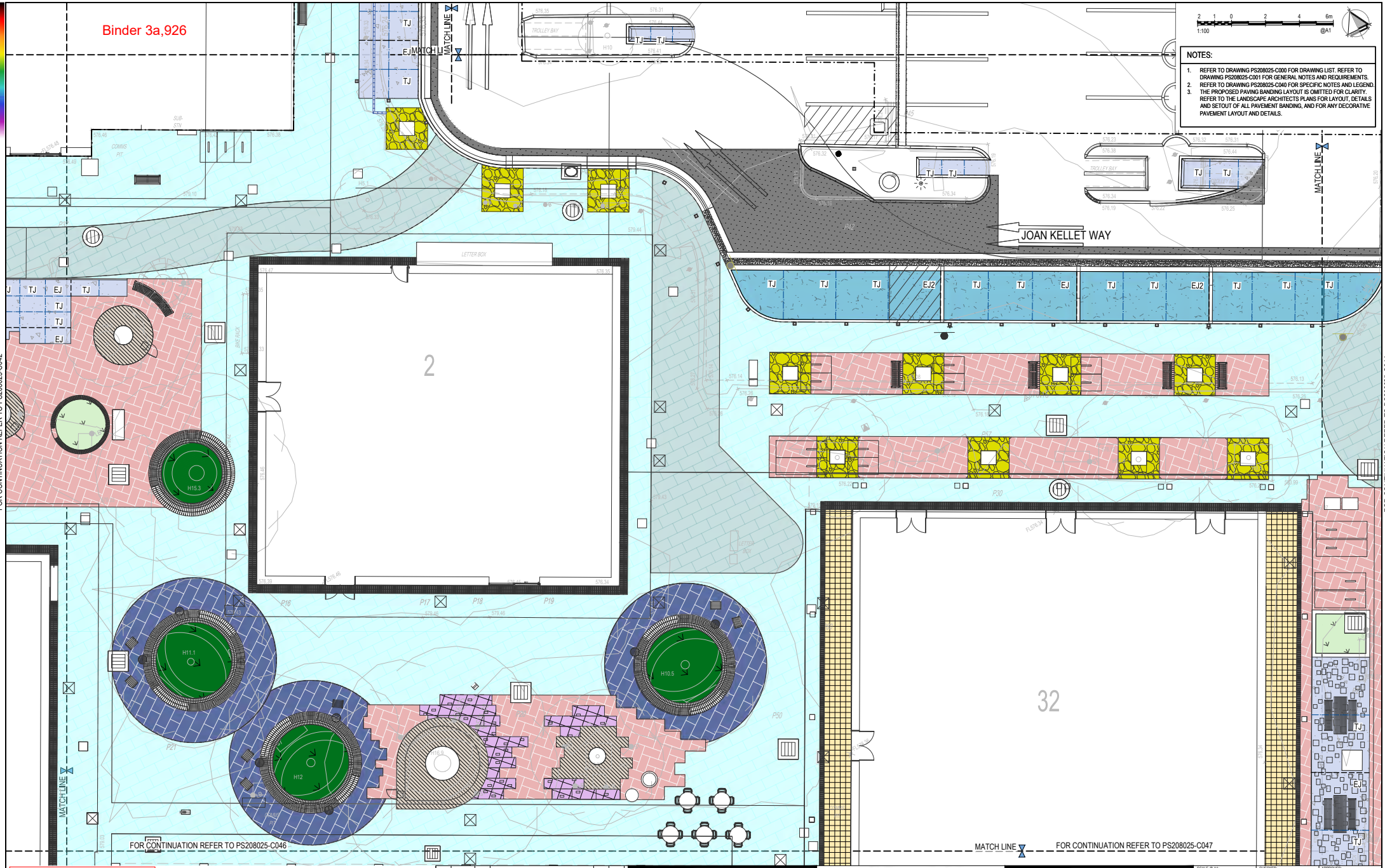
FOR CONTINUATION REFER TO PS208025-C041

Binder 3a,926

PRINT IN COLOUR

FOR CONTINUATION REFER TO PS208025-C042

FOR CONTINUATION REFER TO PS208025-C044



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NOTES:

1. REFER TO DRAWING PS208025-C000 FOR DRAWING LIST. REFER TO DRAWING PS208025-C001 FOR GENERAL NOTES AND REQUIREMENTS.
2. REFER TO DRAWING PS208025-C040 FOR SPECIFIC NOTES AND LEGEND.
3. THE PROPOSED PAVING BANDING LAYOUT IS OMITTED FOR CLARITY. REFER TO THE LANDSCAPE ARCHITECTS PLANS FOR LAYOUT, DETAILS AND SETOUT OF ALL PAVEMENT BANDING, AND FOR ANY DECORATIVE PAVEMENT LAYOUT AND DETAILS.

SERVICE CLASHES
CONTRACTOR TO REFER TO SERVICES DOCUMENTATION AND LIAISE WITH THE RELEVANT AUTHORITY TO MITIGATE ANY SERVICE CLASHES WITH THE PROPOSED WORKS.

WARNING
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P3	08/11/2024	J.C	DOCUMENT READINESS (75%)	M.B	J.L
P2	02/10/2024	J.C	FINAL FSP ISSUE	J.L	J.L
P1	16/09/2024	J.C	DRAFT FSP ISSUE	J.L	J.L

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CLIENT: ACT Government — CITY RENEWAL AUTHORITY

ARCHITECT: OCULUS

PROJECT: DICKSON SHOPS AND STREETSCAPE

TITLE: PAVEMENT LAYOUT PLAN SHEET 3

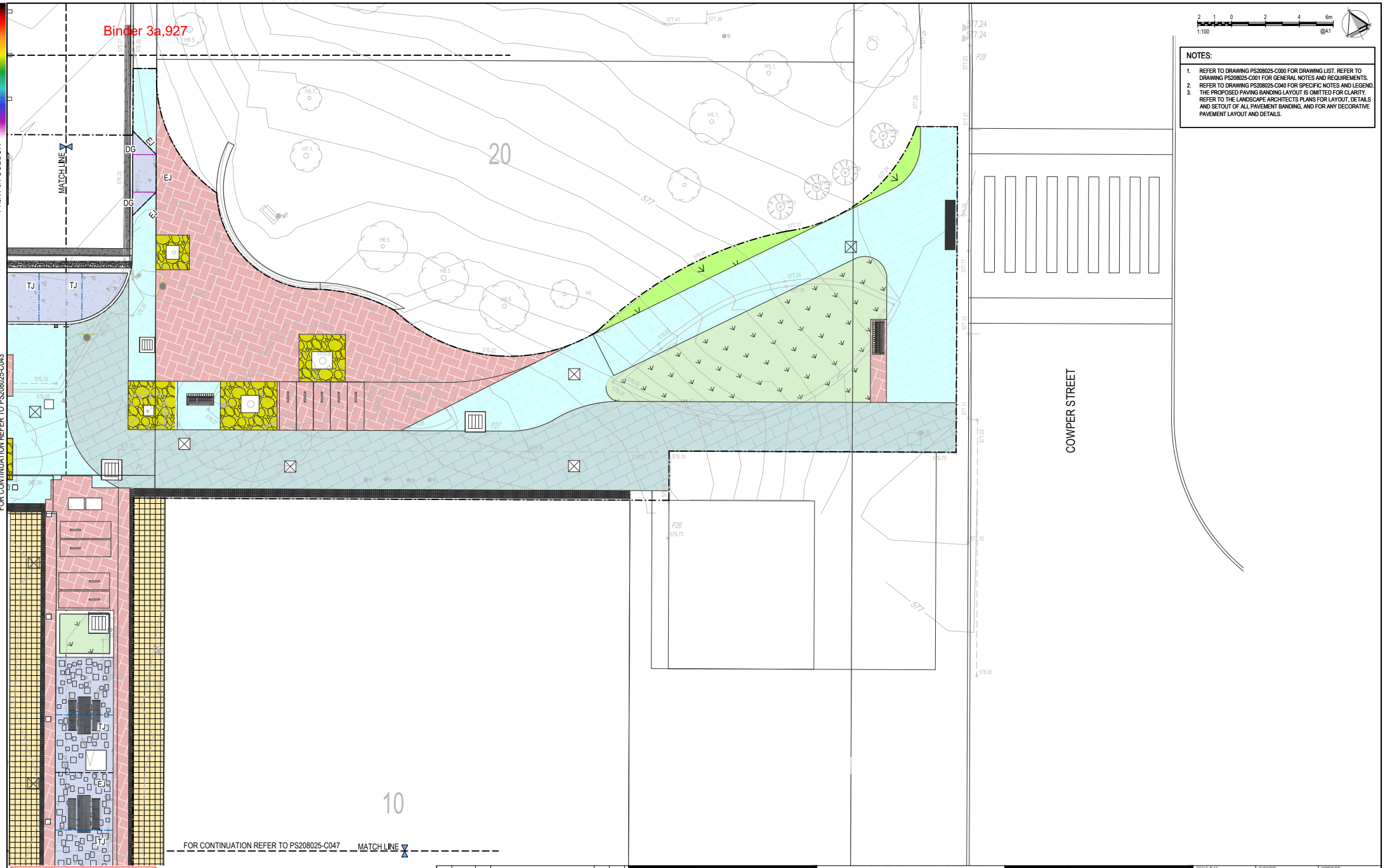
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PROJECT NUMBER:	DRAWN:	DATE:
PS208025	J.P	10/06/2025
DRAWING No:		REV:
C043		P8

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FOR CONTINUATION REFER TO PS208025-C041

Binder 3a,927



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NOTES:

1. REFER TO DRAWING PS208025-C000 FOR DRAWING LIST. REFER TO DRAWING PS208025-C001 FOR GENERAL NOTES AND REQUIREMENTS.
2. REFER TO DRAWING PS208025-C040 FOR SPECIFIC NOTES AND LEGEND.
3. THE PROPOSED PAVING BANDING LAYOUT IS OMITTED FOR CLARITY. REFER TO THE LANDSCAPE ARCHITECTS PLANS FOR LAYOUT, DETAILS AND SETOUT OF ALL PAVEMENT BANDING, AND FOR ANY DECORATIVE PAVEMENT LAYOUT AND DETAILS.

PRINT IN COLOUR

FOR CONTINUATION REFER TO PS208025-C043

SERVICE CLASHES
CONTRACTOR TO REFER TO SERVICES DOCUMENTATION AND LIAISE WITH THE RELEVANT AUTHORITY TO MITIGATE ANY SERVICE CLASHES WITH THE PROPOSED WORKS.

WARNING
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P5	07/02/2025	J.C	100% DOCUMENT READINESS	MB	J.L
P4	31/01/2025	J.C	100% DOCUMENT READINESS	J.L	J.L
P3	08/11/2024	J.C	DOCUMENT READINESS (75%)	M.B	J.L
P2	02/10/2024	J.C	FINAL FSP ISSUE	J.L	J.L
P1	16/09/2024	J.C	DRAFT FSP ISSUE	J.L	J.L

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CLIENT: ACT Government — CITY RENEWAL AUTHORITY

ARCHITECT: OCULUS

PROJECT: DICKSON SHOPS AND STREETSCAPE

TITLE: PAVEMENT LAYOUT PLAN SHEET 4

SCALE @ A1:	CHECKED:	APPROVED:
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PROJECT NUMBER:	DRAWN:	DATE:
PS208025	J.P	5/06/2025

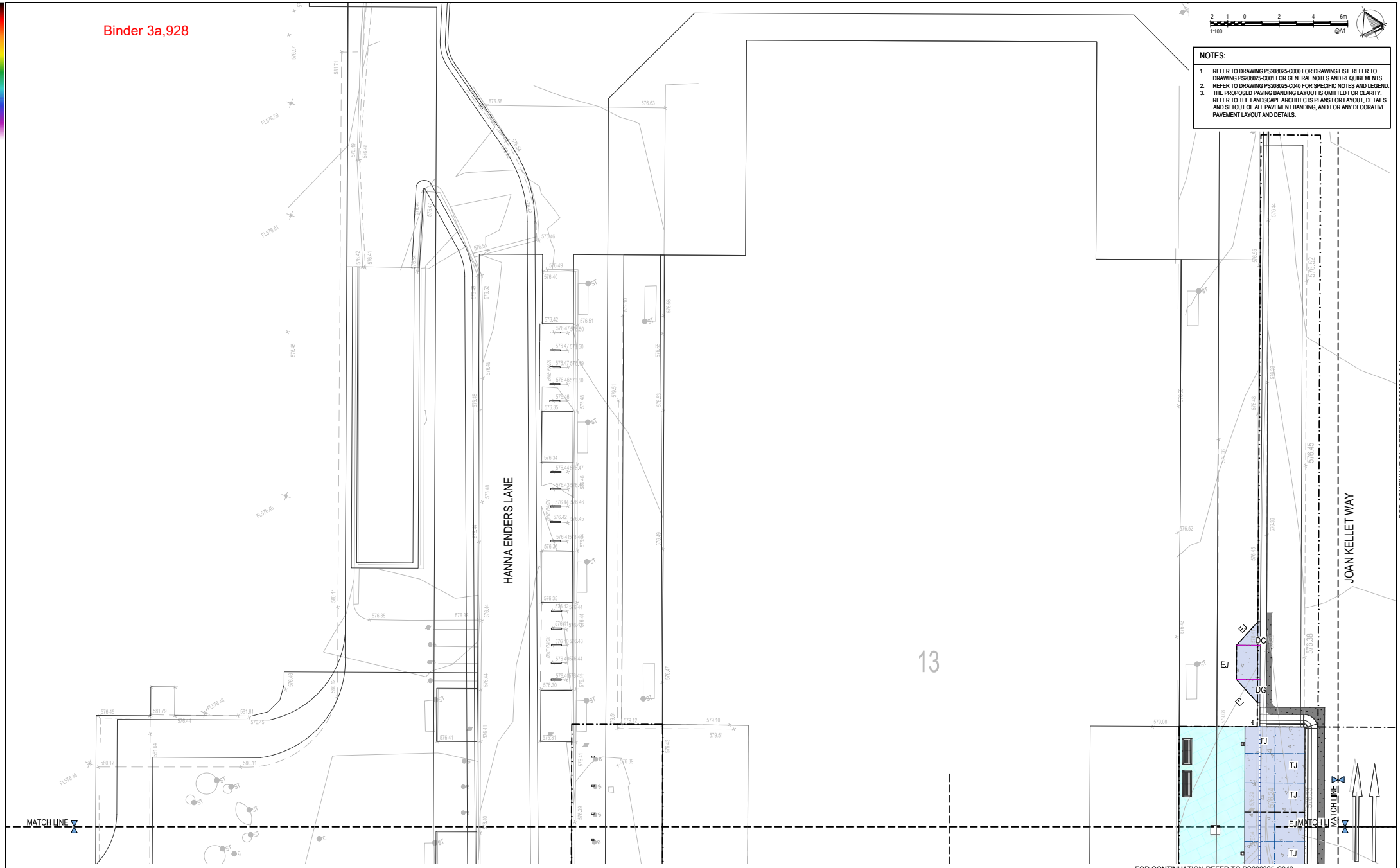
DRAWING No: C044 REV: P8

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NOTES:

1. REFER TO DRAWING PS208025-C000 FOR DRAWING LIST. REFER TO DRAWING PS208025-C001 FOR GENERAL NOTES AND REQUIREMENTS.
2. REFER TO DRAWING PS208025-C040 FOR SPECIFIC NOTES AND LEGEND.
3. THE PROPOSED PAVING BANDING LAYOUT IS OMITTED FOR CLARITY. REFER TO THE LANDSCAPE ARCHITECTS PLANS FOR LAYOUT, DETAILS AND SETOUT OF ALL PAVEMENT BANDING, AND FOR ANY DECORATIVE PAVEMENT LAYOUT AND DETAILS.

FOR CONTINUATION REFER TO PS208025-C042

FOR CONTINUATION REFER TO PS208025-C043

FOR CONTINUATION REFER TO PS208025-C041

SERVICE CLASHES
CONTRACTOR TO REFER TO SERVICES DOCUMENTATION AND LIAISE WITH THE RELEVANT AUTHORITY TO MITIGATE ANY SERVICE CLASHES WITH THE PROPOSED WORKS.

WARNING
BEWARE OF UNDERGROUND SERVICES.
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P3	08/11/2024	J.C	DOCUMENT READINESS (75%)	M.B	J.L
P2	02/10/2024	J.C	FINAL FSP ISSUE	J.L	J.L
P1	16/09/2024	J.C	DRAFT FSP ISSUE	J.L	J.L

DRAWING STATUS: **FOR APPROVAL**
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CLIENT: ACT Government — CITY RENEWAL AUTHORITY

ARCHITECT: OCULUS

PROJECT: DICKSON SHOPS AND STREETSCAPE

TITLE: PAVEMENT LAYOUT PLAN
SHEET 5

SCALE @ A1:	CHECKED:	APPROVED:
1:100	I.Y	J.L
PROJECT NUMBER:	DRAWN:	DATE:
PS208025	J.P	5/06/2025
DRAWING No:		REV:
C045		P8

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DATE PLOTTED: 5/06/2025 11:28:09 AM BY: CARACAS, MARY DANIELLE

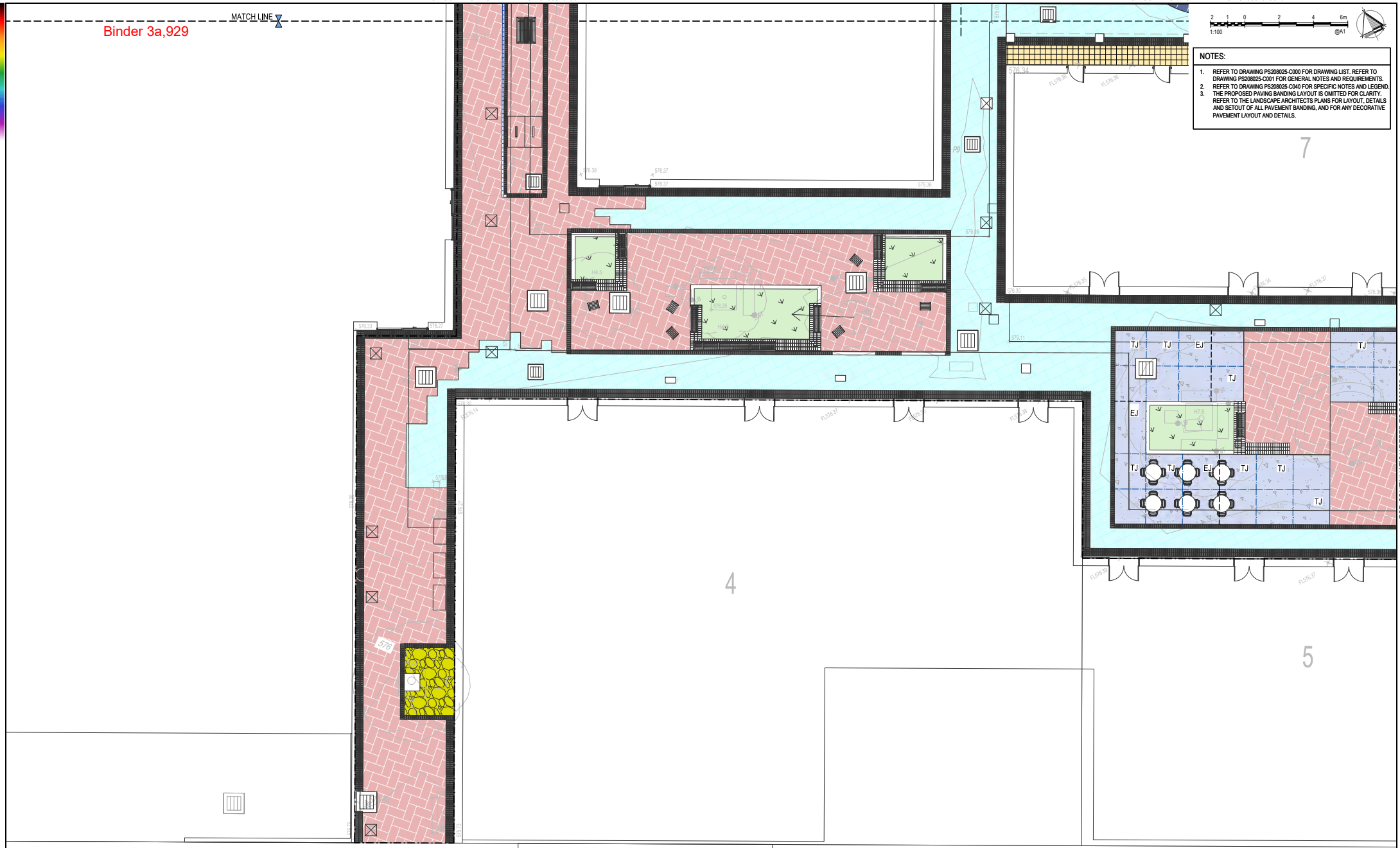
FOR CONTINUATION REFER TO PS208025-C042

FOR CONTINUATION REFER TO PS208025-C043

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MATCH LINE

Binder 3a,929



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NOTES:

1. REFER TO DRAWING PS208025-C000 FOR DRAWING LIST. REFER TO DRAWING PS208025-C001 FOR GENERAL NOTES AND REQUIREMENTS.
2. REFER TO DRAWING PS208025-C040 FOR SPECIFIC NOTES AND LEGEND.
3. THE PROPOSED PAVING BANDING LAYOUT IS OMITTED FOR CLARITY. REFER TO THE LANDSCAPE ARCHITECTS PLANS FOR LAYOUT, DETAILS AND SETOUT OF ALL PAVEMENT BANDING, AND FOR ANY DECORATIVE PAVEMENT LAYOUT AND DETAILS.

FOR CONTINUATION REFER TO PS208025-C047

SERVICE CLASHES
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P3	08/11/2024	J.C	DOCUMENT READINESS (75%)	M.B	J.L
P2	02/10/2024	J.C	FINAL FSP ISSUE	J.L	J.L
P1	16/09/2024	J.C	DRAFT FSP ISSUE	J.L	J.L

DRAWING STATUS: **FOR APPROVAL**
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http://www.wsp.com

CLIENT: ACT Government — CITY RENEWAL AUTHORITY

ARCHITECT: OCULUS

PROJECT: DICKSON SHOPS AND STREETSCAPE

TITLE: PAVEMENT LAYOUT PLAN SHEET 6

SCALE @ A1:	CHECKED:	APPROVED:
1:100	I.Y	J.L
PROJECT NUMBER:	DRAWN:	DATE:
PS208025	J.P	5/06/2025
DRAWING No:		REV:
C046		P8

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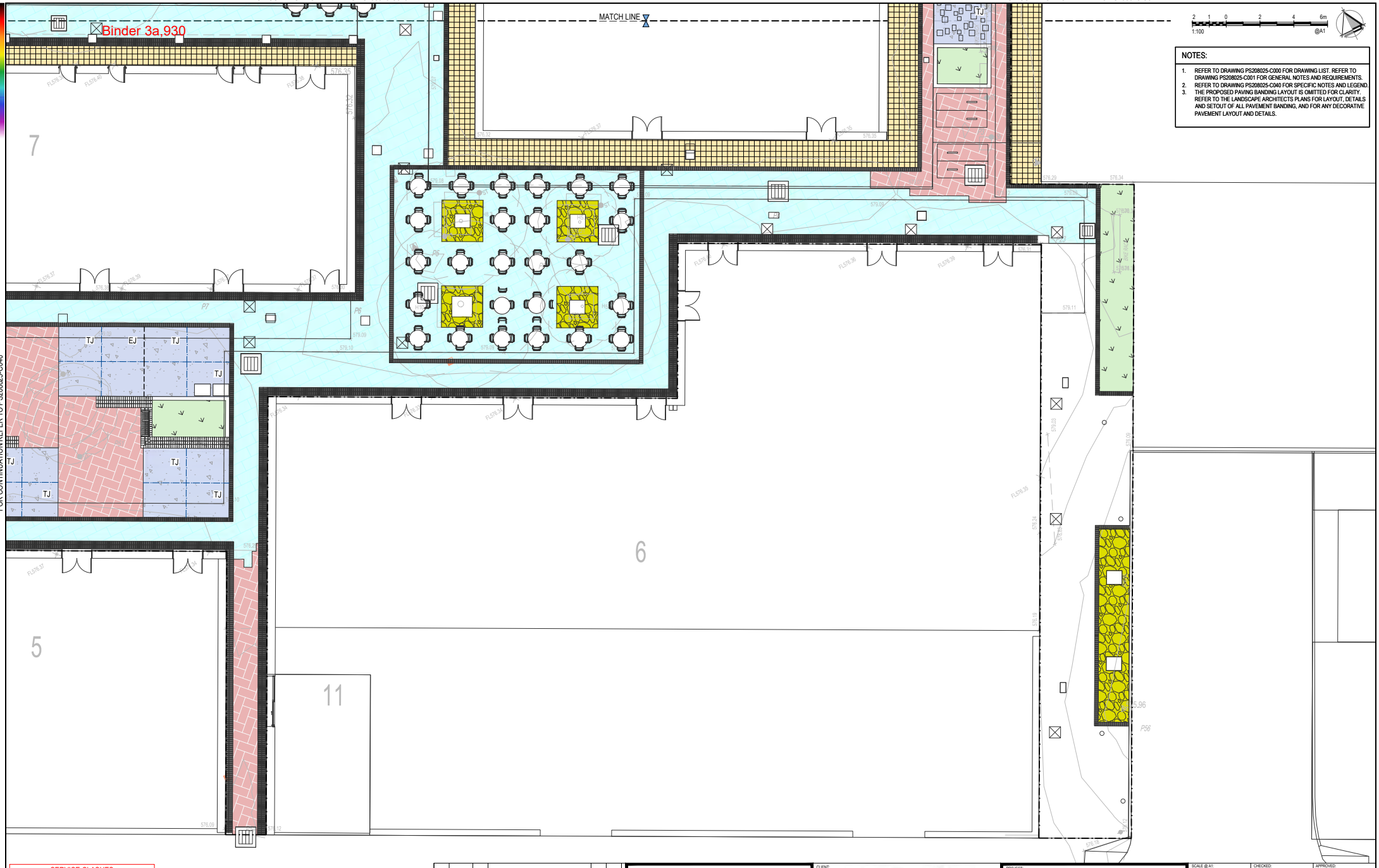
DATE PLOTTED: 5/06/2025 11:28 AM BY: CARACAS, MARY DANIELLE

FOR CONTINUATION REFER TO PS208025-C043

FOR CONTINUATION REFER TO PS208025-C044

FOR CONTINUATION REFER TO PS208025-C046

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NOTES:

1. REFER TO DRAWING PS208025-C000 FOR DRAWING LIST. REFER TO DRAWING PS208025-C001 FOR GENERAL NOTES AND REQUIREMENTS.
2. REFER TO DRAWING PS208025-C040 FOR SPECIFIC NOTES AND LEGEND.
3. THE PROPOSED PAVING BANDING LAYOUT IS OMITTED FOR CLARITY. REFER TO THE LANDSCAPE ARCHITECTS PLANS FOR LAYOUT, DETAILS AND SETOUT OF ALL PAVEMENT BANDING, AND FOR ANY DECORATIVE PAVEMENT LAYOUT AND DETAILS.

SERVICE CLASHES
CONTRACTOR TO REFER TO SERVICES DOCUMENTATION AND LIAISE WITH THE RELEVANT AUTHORITY TO MITIGATE ANY SERVICE CLASHES WITH THE PROPOSED WORKS.

WARNING
BEWARE OF UNDERGROUND SERVICES.
THE LOCATION OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE BY CIVIL CONTRACTOR PRIOR TO CONSTRUCTION OF ANY CIVIL WORKS. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.

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REV	DATE	BY	DESCRIPTION	CHK	APP
P8	28/05/2025	J.C	DESIGN ACCEPTANCE ISSUE	M.B	J.L
P7	24/04/2025	J.C	100% DOCUMENT READINESS	MB	J.L
P6	08/04/2025	J.C	100% DOCUMENT READINESS	M.B	J.L
P5	07/02/2025	J.C	100% DOCUMENT READINESS	MB	J.L
P4	31/01/2025	J.C	100% DOCUMENT READINESS	J.L	J.L
P3	08/11/2024	J.C	DOCUMENT READINESS (75%)	M.B	J.L
P2	02/10/2024	J.C	FINAL FSP ISSUE	J.L	J.L
P1	16/09/2024	J.C	DRAFT FSP ISSUE	J.L	J.L

DRAWING STATUS: **FOR APPROVAL**
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CLIENT: ACT Government — CITY RENEWAL AUTHORITY

ARCHITECT: OCULUS

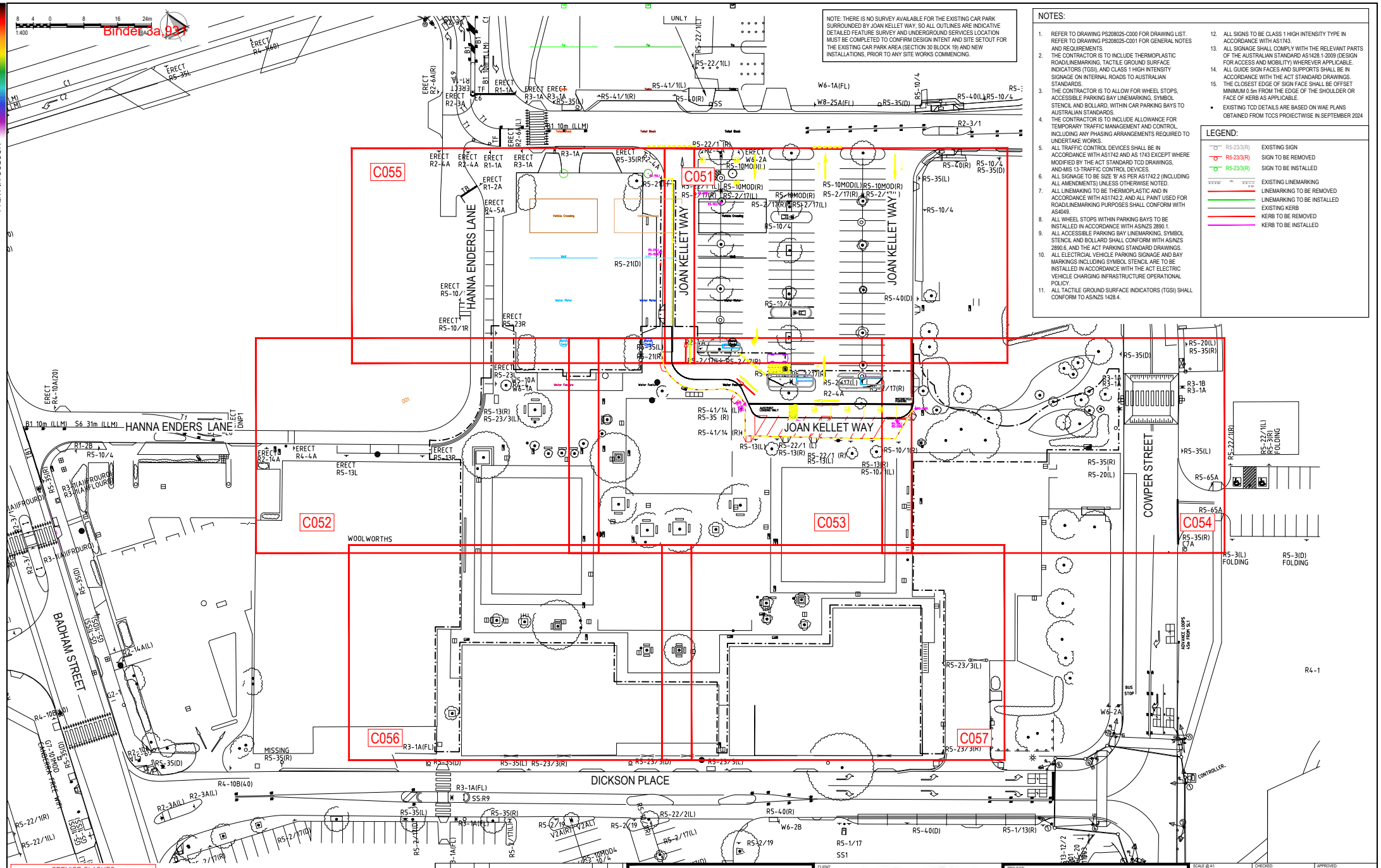
PROJECT: DICKSON SHOPS AND STREETSCAPE

TITLE: PAVEMENT LAYOUT PLAN SHEET 7

SCALE @ A1:	CHECKED:	APPROVED:
1:100	I.Y	J.L
PROJECT NUMBER:	DRAWN:	DATE:
PS208025	J.P	5/06/2025
DRAWING No:		REV:
C047		P8

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DATE PLOTTED: 5/06/2025 11:29:30 AM BY: CARACAS, MARY DANIELLE



NOTE: THERE IS NO SURVEY AVAILABLE FOR THE EXISTING CAR PARK SURROUNDED BY JOAN KELLET WAY, SO ALL OUTLINES ARE INDICATIVE DETAILED FEATURE SURVEY AND UNDERGROUND SERVICES LOCATION MUST BE COMPLETED TO CONFIRM DESIGN INTENT AND SITE SETOUT FOR THE EXISTING CAR PARK AREA (SECTION 30 BLOCK 19) AND NEW INSTALLATIONS, PRIOR TO ANY SITE WORKS COMMENCING.

NOTES:

1. REFER TO DRAWING PS208025-C000 FOR DRAWING LIST. REFER TO DRAWING PS208025-C001 FOR GENERAL NOTES AND REQUIREMENTS.
2. THE CONTRACTOR IS TO INCLUDE THERMOPLASTIC ROAD/LINEMARKING, TACTILE GROUND SURFACE INDICATORS (TGSI), AND CLASS 1 HIGH INTENSITY SIGNAGE ON INTERNAL ROADS TO AUSTRALIAN STANDARDS.
3. THE CONTRACTOR IS TO ALLOW FOR WHEEL STOPS, ACCESSIBLE PARKING BAY LINEMARKING, SYMBOL STENCIL AND BOLLARD, WITHIN CAR PARKING BAYS TO AUSTRALIAN STANDARDS.
4. THE CONTRACTOR IS TO INCLUDE ALLOWANCE FOR TEMPORARY TRAFFIC MANAGEMENT AND CONTROL, INCLUDING ANY PHASING ARRANGEMENTS REQUIRED TO UNDERTAKE WORKS.
5. ALL TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH AS1742 AND AS 1743 EXCEPT WHERE MODIFIED BY THE ACT STANDARD TCD DRAWINGS, AND-MIS 13-TRAFFIC CONTROL DEVICES.
6. ALL SIGNAGE TO BE SIZE 'B' AS PER AS1742.2 (INCLUDING ALL AMENDMENTS) UNLESS OTHERWISE NOTED.
7. ALL LINEMAKING TO BE THERMOPLASTIC AND IN ACCORDANCE WITH AS1742.2, AND ALL PAINT USED FOR ROAD/LINEMARKING PURPOSES SHALL CONFORM WITH AS4049.
8. ALL WHEEL STOPS WITHIN PARKING BAYS TO BE INSTALLED IN ACCORDANCE WITH AS/NZS 2890.1.
9. ALL ACCESSIBLE PARKING BAY LINEMARKING, SYMBOL STENCIL AND BOLLARD SHALL CONFORM WITH AS/NZS 2890.6, AND THE ACT PARKING STANDARD DRAWINGS.
10. ALL ELECTRCIAL VEHICLE PARKING SIGNAGE AND BAY MARKINGS INCLUDING SYMBOL STENCIL ARE TO BE INSTALLED IN ACCORDANCE WITH THE ACT ELECTRIC VEHICLE CHARGING INFRASTRUCTURE OPERATIONAL POLICY.
11. ALL TACTILE GROUND SURFACE INDICATORS (TGSI) SHALL CONFORM TO AS/NZS 1428.4.
12. ALL SIGNS TO BE CLASS 1 HIGH INTENSITY TYPE IN ACCORDANCE WITH AS1743.
13. ALL SIGNAGE SHALL COMPLY WITH THE RELEVANT PARTS OF THE AUSTRALIAN STANDARD AS1428.1-2009 (DESIGN FOR ACCESS AND MOBILITY) WHEREVER APPLICABLE.
14. ALL GUIDE SIGN FACES AND SUPPORTS SHALL BE IN ACCORDANCE WITH THE ACT STANDARD DRAWINGS.
15. THE CLOSEST EDGE OF SIGN FACE SHALL BE OFFSET MINIMUM 0.5m FROM THE EDGE OF THE SHOULDER OR FACE OF KERB AS APPLICABLE.

- EXISTING TCD DETAILS ARE BASED ON WAE PLANS OBTAINED FROM TCCS PROJECTWISE IN.SEPTEMBER 2024

LEGEND:

- R5-23/3(R) — EXISTING SIGN
- R5-23/3(R) — SIGN TO BE REMOVED
- R5-23/3(R) — SIGN TO BE INSTALLED
- EXISTING LINEMARKING
- LINEMARKING TO BE REMOVED
- LINEMARKING TO BE INSTALLED
- EXISTING KERB
- KERB TO BE REMOVED
- KERB TO BE INSTALLED

SERVICE CLASHES
CONTRACTOR TO REFER TO SERVICES DOCUMENTATION AND LIAISE WITH THE RELEVANT AUTHORITY TO MITIGATE ANY SERVICE CLASHES WITH THE PROPOSED WORKS.

WARNING
BEWARE OF UNDERGROUND SERVICES.
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P1	16/09/2024	J.C	DRAFT FSP ISSUE	J.L	J.L

DRAWING STATUS: **FOR APPROVAL** NOT TO BE USED FOR CONSTRUCTION

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CLIENT: ACT Government — CITY RENEWAL AUTHORITY

ARCHITECT: OCULUS

PROJECT: DICKSON SHOPS AND STREETSCAPE

TITLE: TRAFFIC CONTROL DEVICES OVERALL LAYOUT PLAN

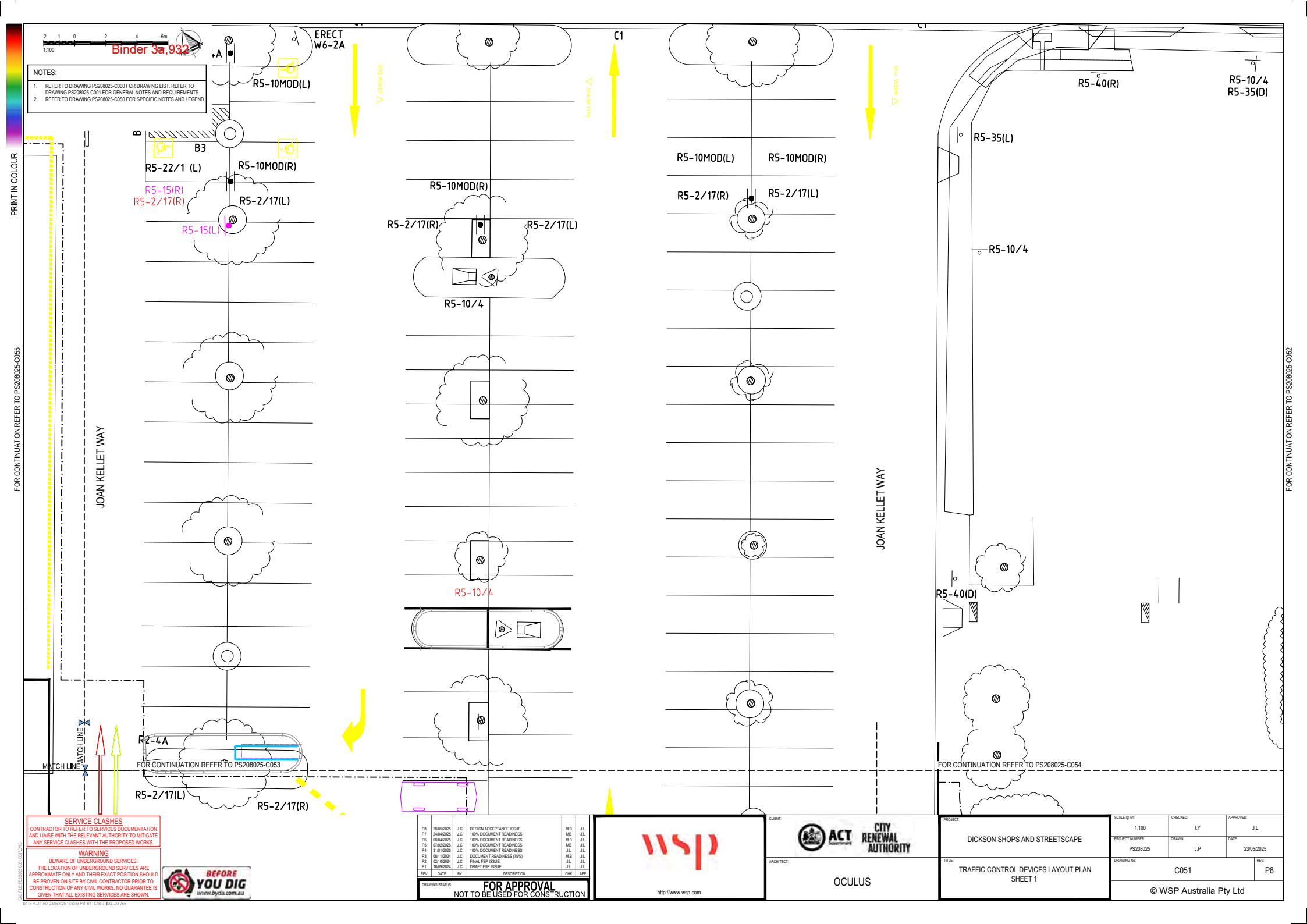
SCALE @ A1:	CHECKED:	APPROVED:
1:400	I.Y	J.L
PROJECT NUMBER:	DRAWN:	DATE:
PS208025	J.P	23/05/2025
DRAWING No:		REV:
C050		P8

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Binder3a 931

DATE PLOTTED: 23/05/2025 2:01:11 PM BY: CABOTTING, JAYDEE


Binder 3a,932
NOTES:
1. REFER TO DRAWING PS208025-C000 FOR DRAWING LIST. REFER TO DRAWING PS208025-C001 FOR GENERAL NOTES AND REQUIREMENTS.
2. REFER TO DRAWING PS208025-C050 FOR SPECIFIC NOTES AND LEGEND.
ERECT W6-2A
R5-10MOD(L)
B3
R5-22/1 (L)
R5-10MOD(R)
R5-15(R)
R5-2/17(R)
R5-2/17(L)
R5-15(L)
R5-10MOD(R)
R5-2/17(R)
R5-2/17(L)
R5-10/4
R5-10/4
R5-10MOD(L)
R5-10MOD(R)
R5-2/17(R)
R5-2/17(L)
R5-40(R)
R5-10/4
R5-35(D)
R5-35(L)
R5-10/4
R5-40(D)
JOAN KELLET WAY
JOAN KELLET WAY
C1
C1
ARROW TYPE
ARROW TYPE
ARROW TYPE
R2-4A
R5-2/17(L)
R5-2/17(R)
MATCH LINE
MATCH LINE
FOR CONTINUATION REFER TO PS208025-C053
FOR CONTINUATION REFER TO PS208025-C054
PRINT IN COLOUR
FOR CONTINUATION REFER TO PS208025-C055
FOR CONTINUATION REFER TO PS208025-C052
SERVICE CLASHES
CONTRACTOR TO REFER TO SERVICES DOCUMENTATION AND LIAISE WITH THE RELEVANT AUTHORITY TO MITIGATE ANY SERVICE CLASHES WITH THE PROPOSED WORKS.
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P8 28/05/2025 J.C DESIGN ACCEPTANCE ISSUE M.B J.L
P7 24/04/2025 J.C 100% DOCUMENT READINESS M.B J.L
P6 08/04/2025 J.C 100% DOCUMENT READINESS M.B J.L
P5 07/02/2025 J.C 100% DOCUMENT READINESS M.B J.L
P4 31/01/2025 J.C 100% DOCUMENT READINESS J.L J.L
P3 08/11/2024 J.C DOCUMENT READINESS (75%) M.B J.L
P2 02/10/2024 J.C FINAL FSP ISSUE J.L J.L
P1 16/09/2024 J.C DRAFT FSP ISSUE J.L J.L
REV DATE BY DESCRIPTION CHK APP
DRAWING STATUS: FOR APPROVAL
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http://www.wsp.com
CLIENT: ACT Government CITY RENEWAL AUTHORITY
ARCHITECT: OCULUS
PROJECT: DICKSON SHOPS AND STREETSCAPE
TITLE: TRAFFIC CONTROL DEVICES LAYOUT PLAN SHEET 1
SCALE @ A1: 1:100
CHECKED: I.Y
APPROVED: J.L
PROJECT NUMBER: PS208025
DRAWN: J.P
DATE: 23/05/2025
DRAWING No: C051
REV: P8
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DATE PLOTTED: 23/05/2025 12:32:58 PM BY: CABOTINO, JAYVEE

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NOTES:

1. REFER TO DRAWING PS208025-C000 FOR DRAWING LIST. REFER TO DRAWING PS208025-C001 FOR GENERAL NOTES AND REQUIREMENTS.
2. REFER TO DRAWING PS208025-C050 FOR SPECIFIC NOTES AND LEGEND.

MATCH LINE

.001

ERECT
R5-23L

W5-10A
R4-4
W6-1A

R5-13(R)
R5-23/3(L)

HANNA ENDERS LANE

ERECT
R2-14A

ERECT
R4-4A

ERECT
R5-13L

ERECT
R5-13R

WOOLWORTHS

FOR CONTINUATION REFER TO PS208025-C056

FOR CONTINUATION REFER TO PS208025-C053

MATCH LINE

SERVICE CLASHES
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P7	24/04/2025	J.C	100% DOCUMENT READINESS	MB	J.L
P6	08/04/2025	J.C	100% DOCUMENT READINESS	M.B	J.L
P5	07/02/2025	J.C	100% DOCUMENT READINESS	MB	J.L
P4	31/01/2025	J.C	100% DOCUMENT READINESS	J.L	J.L
P3	08/11/2024	J.C	DOCUMENT READINESS (75%)	M.B	J.L
P2	02/10/2024	J.C	FINAL FSP ISSUE	J.L	J.L
P1	16/09/2024	J.C	DRAFT FSP ISSUE	J.L	J.L

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CLIENT: ACT Government — CITY RENEWAL AUTHORITY

ARCHITECT: OCULUS

PROJECT: DICKSON SHOPS AND STREETSCAPE

TITLE: TRAFFIC CONTROL DEVICES LAYOUT PLAN SHEET 2

SCALE @ A1:	CHECKED:	APPROVED:
1:100	I.Y	J.L
PROJECT NUMBER:	DRAWN:	DATE:
PS208025	J.P	23/05/2025
DRAWING No:		REV:
C052		P8

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DATE PLOTTED: 23/05/2025 12:31:05 PM BY: CABOT(NX), JAYVEE

FOR CONTINUATION REFER TO PS208025-C055

FOR CONTINUATION REFER TO PS208025-C051

Binder 3a,934

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FOR CONTINUATION REFER TO PS208025-C052

FOR CONTINUATION REFER TO PS208025-C054

2 1 0 2 4 6m
1:100 @A1

NOTES:

1. REFER TO DRAWING PS208025-C000 FOR DRAWING LIST. REFER TO DRAWING PS208025-C001 FOR GENERAL NOTES AND REQUIREMENTS.
2. REFER TO DRAWING PS208025-C050 FOR SPECIFIC NOTES AND LEGEND.

MATCH LINE

R5-35(L)
R5-21(R)

R2-4A
R5-2/17(L)
R5-2/17(R)

R5-2/17(L)
R5-2/17(R)

R5-2/17(L)
R2-4A
R5-2/17(R)

JOAN KELLET WAY

MOTORCYCLE PARKING

AUSTPOST LOADING ONLY

R5-41/14 (L)
R5-35 (R)

R5-23(L)
R5-35(R)

R5-23(R)
R5-31(L)

R5-10(L)
R5-31(R)

R5-41/14 (R)

JOAN KELLET WAY

R5-13(L)

R5-22/1 (L)
R5-13(R)

R5-22/1 (R)

R5-13(L)
R5-13(R)
R5-10/1(L)

R5-10/1(R)

MATCH LINE

FOR CONTINUATION REFER TO PS208025-C056

MATCH LINE

FOR CONTINUATION REFER TO PS208025-C057

SERVICE CLASHES
CONTRACTOR TO REFER TO SERVICES DOCUMENTATION AND LIAISE WITH THE RELEVANT AUTHORITY TO MITIGATE ANY SERVICE CLASHES WITH THE PROPOSED WORKS.

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P5	07/02/2025	J.C	100% DOCUMENT READINESS	MB	J.L
P4	31/01/2025	J.C	100% DOCUMENT READINESS	J.L	J.L
P3	08/11/2024	J.C	DOCUMENT READINESS (75%)	M.B	J.L
P2	02/10/2024	J.C	FINAL FSP ISSUE	J.L	J.L
P1	16/09/2024	J.C	DRAFT FSP ISSUE	J.L	J.L

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CLIENT: ACT Government — CITY RENEWAL AUTHORITY

ARCHITECT: OCULUS

PROJECT: DICKSON SHOPS AND STREETSCAPE

TITLE: TRAFFIC CONTROL DEVICES LAYOUT PLAN SHEET 3

SCALE @ A1:	CHECKED:	APPROVED:
1:100	I.Y	J.L
PROJECT NUMBER:	DRAWN:	DATE:
PS208025	J.P	23/05/2025
DRAWING No:		REV:
C053		P8

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FOR CONTINUATION REFER TO PS208025-C051

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FOR CONTINUATION REFER TO PS208025-C053

MATCH LINE

MOTORCYCLE PARKING

R5-10(R)

R5-10(L)
R5-31(R)

R5-10/1(R)

R5-35(D)

C2

2 1 0 2 4 6m
1:100 @A1

NOTES:

1. REFER TO DRAWING PS208025-C000 FOR DRAWING LIST. REFER TO DRAWING PS208025-C001 FOR GENERAL NOTES AND REQUIREMENTS.
2. REFER TO DRAWING PS208025-C050 FOR SPECIFIC NOTES AND LEGEND.

R3-1B
R3-1A

R3-1A
R3-1A

COWPER STREET
B5

C1

R5-35(L)

R5-35(R)
R5-20(L)

R5-65A

B5

R5-65A

HL1

R5-35(R)
C7A

FOR CONTINUATION REFER TO PS208025-C057

MATCH LINE

SERVICE CLASHES
CONTRACTOR TO REFER TO SERVICES DOCUMENTATION AND LIAISE WITH THE RELEVANT AUTHORITY TO MITIGATE ANY SERVICE CLASHES WITH THE PROPOSED WORKS.

WARNING
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P5	07/02/2025	J.C	100% DOCUMENT READINESS	MB	J.L
P4	31/01/2025	J.C	100% DOCUMENT READINESS	J.L	J.L
P3	08/11/2024	J.C	DOCUMENT READINESS (75%)	M.B	J.L
P2	02/10/2024	J.C	FINAL FSP ISSUE	J.L	J.L
P1	16/09/2024	J.C	DRAFT FSP ISSUE	J.L	J.L

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CLIENT: ACT Government — CITY RENEWAL AUTHORITY

ARCHITECT: OCULUS

PROJECT: DICKSON SHOPS AND STREETSCAPE

TITLE: TRAFFIC CONTROL DEVICES LAYOUT PLAN SHEET 4

SCALE @ A1:	CHECKED:	APPROVED:
1:100	I.Y	J.L
PROJECT NUMBER:	DRAWN:	DATE:
PS208025	J.P	23/05/2025
DRAWING No:		REV:
C054		P8

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DATE PLOTTED: 23/05/2025 12:51:19 PM BY: CABOTINO, JAYVEE

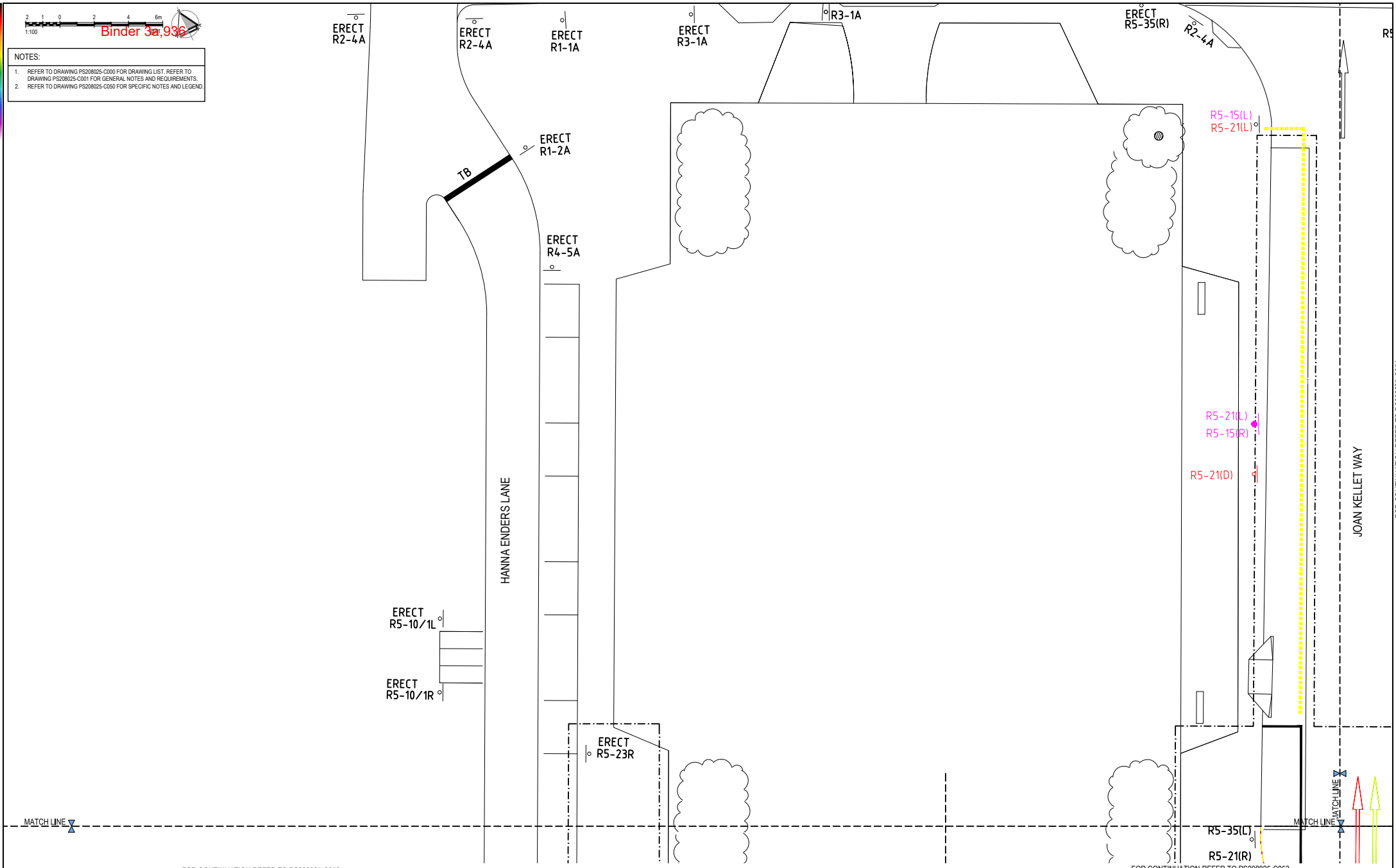
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1:100

Binder 3a,936

NOTES:

1. REFER TO DRAWING PS208025-C000 FOR DRAWING LIST. REFER TO DRAWING PS208025-C001 FOR GENERAL NOTES AND REQUIREMENTS.
2. REFER TO DRAWING PS208025-C050 FOR SPECIFIC NOTES AND LEGEND.



FOR CONTINUATION REFER TO PS208025-C052

FOR CONTINUATION REFER TO PS208025-C053

FOR CONTINUATION REFER TO PS208025-C051

SERVICE CLASHES
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CLIENT: ACT Government — CITY RENEWAL AUTHORITY

ARCHITECT: OCULUS

PROJECT: DICKSON SHOPS AND STREETSCAPE

TITLE: TRAFFIC CONTROL DEVICES LAYOUT PLAN SHEET 5

SCALE @ A1:	CHECKED:	APPROVED:
1:100	I.Y	J.L
PROJECT NUMBER:	DRAWN:	DATE:
PS208025	J.P	23/05/2025
DRAWING No:		REV:
C055		P8

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FOR CONTINUATION REFER TO PS208025-C053

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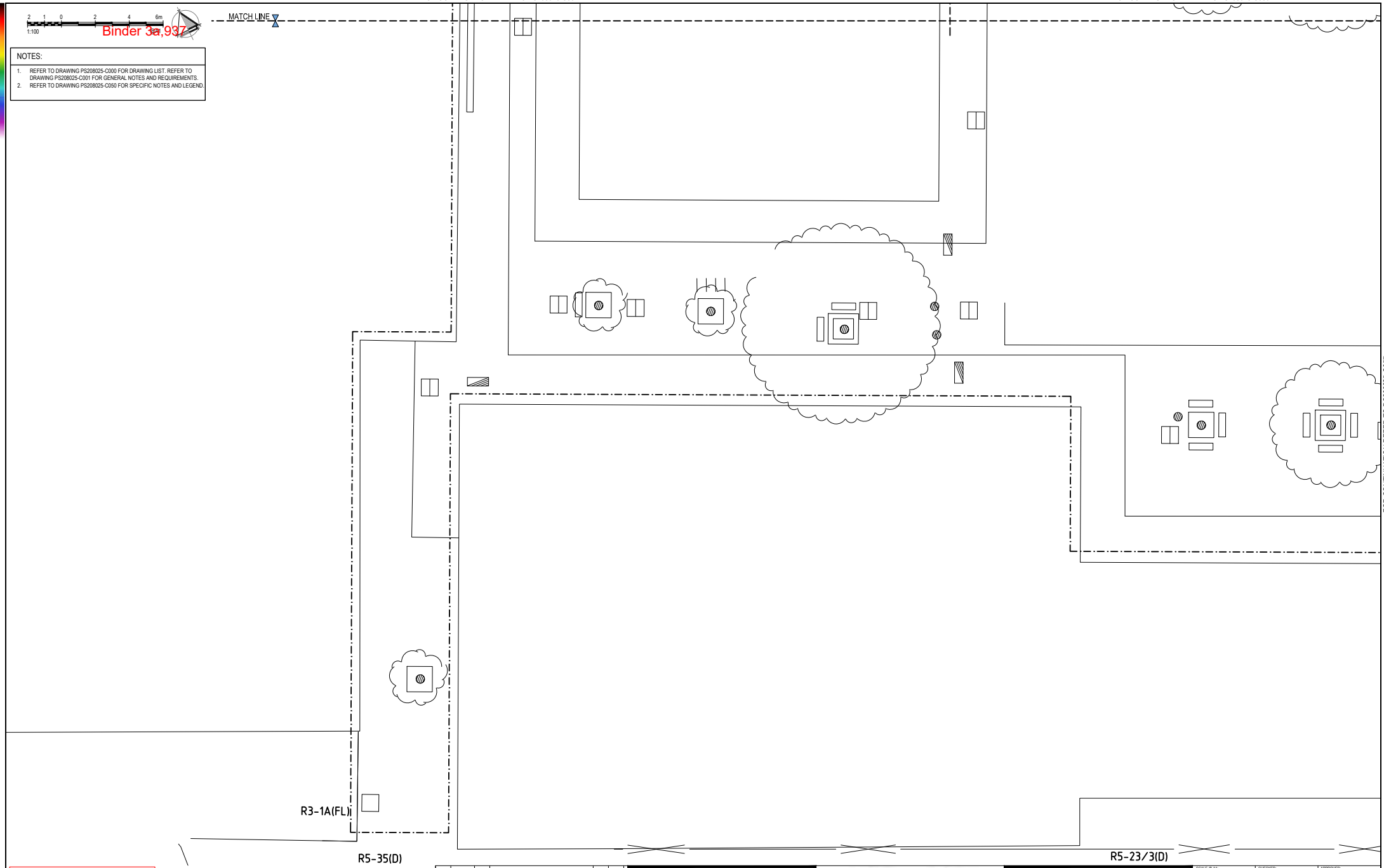
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1:100

Binder 3a,937

MATCH LINE

NOTES:

1. REFER TO DRAWING PS208025-C000 FOR DRAWING LIST. REFER TO DRAWING PS208025-C001 FOR GENERAL NOTES AND REQUIREMENTS.
2. REFER TO DRAWING PS208025-C050 FOR SPECIFIC NOTES AND LEGEND.



FOR CONTINUATION REFER TO PS208025-C057

SERVICE CLASHES
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P5	07/02/2025	J.C	100% DOCUMENT READINESS	MB	J.L
P4	31/01/2025	J.C	100% DOCUMENT READINESS	J.L	J.L
P3	08/11/2024	J.C	DOCUMENT READINESS (75%)	M.B	J.L
P2	02/10/2024	J.C	FINAL FSP ISSUE	J.L	J.L
P1	16/09/2024	J.C	DRAFT FSP ISSUE	J.L	J.L

DRAWING STATUS: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

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CLIENT: ACT Government — CITY RENEWAL AUTHORITY

ARCHITECT: OCULUS

PROJECT: DICKSON SHOPS AND STREETSCAPE

TITLE: TRAFFIC CONTROL DEVICES LAYOUT PLAN SHEET 6

SCALE @ A1:	CHECKED:	APPROVED:
1:100	I.Y	J.L
PROJECT NUMBER:	DRAWN:	DATE:
PS208025	J.P	23/05/2025
DRAWING No:		REV:
C056		P8

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DATE PLOTTED: 23/05/2025 12:31:33 PM BY: CABOTINO, JAYVEE

FOR CONTINUATION REFER TO PS208025-C053

FOR CONTINUATION REFER TO PS208025-C054

Binder 3a,938

MATCH LINE

2 1 0 2 4 6m
1:100 @A1

NOTES:

1. REFER TO DRAWING PS208025-C000 FOR DRAWING LIST. REFER TO DRAWING PS208025-C001 FOR GENERAL NOTES AND REQUIREMENTS.
2. REFER TO DRAWING PS208025-C050 FOR SPECIFIC NOTES AND LEGEND.

R5-23/3(L)

R5-23/3(R)

FOR CONTINUATION REFER TO PS208025-C056

PRINT IN COLOUR

SERVICE CLASHES
CONTRACTOR TO REFER TO SERVICES DOCUMENTATION AND LIAISE WITH THE RELEVANT AUTHORITY TO MITIGATE ANY SERVICE CLASHES WITH THE PROPOSED WORKS.

WARNING
BEWARE OF UNDERGROUND SERVICES.
THE LOCATION OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE BY CIVIL CONTRACTOR PRIOR TO CONSTRUCTION OF ANY CIVIL WORKS. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.

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REV	DATE	BY	DESCRIPTION	CHK	APP
P8	28/05/2025	J.C	DESIGN ACCEPTANCE ISSUE	M.B	J.L
P7	24/04/2025	J.C	100% DOCUMENT READINESS	MB	J.L
P6	08/04/2025	J.C	100% DOCUMENT READINESS	M.B	J.L
P5	07/02/2025	J.C	100% DOCUMENT READINESS	MB	J.L
P4	31/01/2025	J.C	100% DOCUMENT READINESS	J.L	J.L
P3	08/11/2024	J.C	DOCUMENT READINESS (75%)	M.B	J.L
P2	02/10/2024	J.C	FINAL FSP ISSUE	J.L	J.L
P1	16/09/2024	J.C	DRAFT FSP ISSUE	J.L	J.L

DRAWING STATUS: FOR APPROVAL
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http://www.wsp.com

CLIENT: ACT Government — CITY RENEWAL AUTHORITY

ARCHITECT: OCULUS

PROJECT: DICKSON SHOPS AND STREETSCAPE

TITLE: TRAFFIC CONTROL DEVICES LAYOUT PLAN SHEET 7

SCALE @ A1:	CHECKED:	APPROVED:
1:100	I.Y	J.L
PROJECT NUMBER:	DRAWN:	DATE:
PS208025	J.P	23/05/2025
DRAWING No:		REV:
C057		P8

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DATE PLOTTED: 23/05/2025 12:31:40 PM BY: CAB[OT]KS, JAYVEE

PRINT IN COLOUR

8 4 8 16 24m
1:400

Binder Ja,93B

BULK EARTHWORKS

I.D	MIN. ELEVATION	MAX. ELEVATION	COLOUR
1	-1.000m	-0.900m	
2	-0.900m	-0.800m	
3	-0.800m	-0.700m	
4	-0.700m	-0.600m	
5	-0.600m	-0.500m	
6	-0.500m	-0.400m	
7	-0.400m	-0.300m	
8	-0.300m	-0.200m	
9	-0.200m	-0.100m	
10	-0.100m	0.000m	
11	0.000m	0.100m	
12	0.100m	0.200m	
13	0.200m	0.300m	
14	0.300m	0.400m	

CUT AND FILL TABLE

NAME	CUT VOLUME (m^3)	FILL VOLUME (m^3)	BALANCE
CUT AND FILL TO FORMATION LEVEL	1508.533	0.000	1508.533(CUT)

NOTE: THERE IS NO SURVEY AVAILABLE FOR THE EXISTING CAR PARK SURROUNDED BY JOAN KELLET WAY, SO ALL OUTLINES ARE INDICATIVE DETAILED FEATURE SURVEY AND UNDERGROUND SERVICES LOCATION MUST BE COMPLETED TO CONFIRM DESIGN INTENT AND SITE SETOUT FOR THE EXISTING CAR PARK AREA (SECTION 30 BLOCK 19) AND NEW INSTALLATIONS, PRIOR TO ANY SITE WORKS COMMENCING.

NOTES:

1. REFER TO DRAWING PS208025-C000 FOR DRAWING LIST. REFER TO DRAWING PS208025-C001 FOR GENERAL NOTES AND REQUIREMENTS.EXISTING EXTERNAL STRUCTURES AND ARE FEATURES EXISTING PRIOR TO ANY SEDIMENT AND DEMOLITION WORKS.
2. 'LEVEL 1' SUPERVISION IS REQUIRED FOR ALL EARTHWORKS OPERATIONS AND CERTIFICATION IS TO BE PROVIDED BY THE NOMINATED GEOTECHNICAL TESTING AUTHORITY FOR THE ALL EARTHWORKS.
3. THE CONTRACTOR IS TO PROVIDE AN EARTHWORKS METHODOLOGY STATEMENT FOR APPROVAL BY THE ENGINEER PRIOR TO COMMENCING WORK ON SITE. THE METHODOLOGY STATEMENT SHALL DEMONSTRATE THE TREATMENT OF EXISTING FILL, SITE TRAFFICABILITY AND INCORPORATION OF REQUIRED SEDIMENT AND EROSION WORKS. CONTRACTOR TO ALLOW TO ATTEND AN ON-SITE PRE-START MEETING AND TO EXCAVATE TEST PITS AS REQUIRED TO DEMONSTRATE THE APPROPRIATENESS OF THE METHODOLOGY STATEMENT.
4. THE CONTRACTOR TO ENSURE PRESERVATION AND AVOID DISTURBANCE OF EXISTING SURVEY MARKS.
5. UNLESS NOTED AS AN EXISTING TREE TO BE RETAINED ON ARCHITECTURAL/LANDSCAPE DRAWINGS, REMOVE OFF SITE ALL EXISTING TREES INDICATED ON THE DEMOLITION PLAN AND ALLOW TO DEEP RIP TO REMOVE ANY TREE ROOTS. UNLESS NOTED AS AN EXISTING TREE TO BE RETAINED ON ARCHITECTURAL DRAWINGS. CONTRACTOR SHALL ENGAGE A QUALIFIED ARBORIST TO CUTBACK ALL FOLIAGE OVERHANGING THE BOUNDARY LINE.
6. THE CONTRACTOR SHALL ENSURE ALL FIRE ANT CONTROLS OR RESTRICTIONS ON THIS SITE AND ASSOCIATED REQUIREMENTS HAVE BEEN COMPLIED WITH.
7. CONTRACTOR SHALL REMOVE AND DIVERT ALL EXISTING SERVICES AS IDENTIFIED ON SERVICES/DEMOLITION PLAN AND CAP AT THE SITE BOUNDARY PRIOR TO UNDERTAKING EARTHWORKS. REFER TO ARCHITECTURAL DRAWINGS FOR EXISTING BUILDING DEMOLITION DETAILS.
8. EXISTING MATERIAL IS NOT TO BE USED AS FILL. WHERE EXISTING SUBGRADE LEVELS ARE BELOW BULK EARTHWORKS LEVELS, FILL TO BULK EARTHWORKS LEVELS WITH MATERIAL NOMINATED IN EARTHWORKS NOTES ON GENERAL NOTES DRAWING C001.
9. THE CONTRACTOR IS TO ENSURE ACCESS IS MAINTAINED TO EXISTING ROADWAY AND CARPARK AREAS DURING EARTHWORKS OPERATIONS.
10. EARTHWORKS VOLUMES REPORTED ARE BULK VOLUMES AND DO NOT ACCOUNT FOR ANY BULKING/SHRINKAGE FACTORS OR TOPSOIL STRIPPING.
11. THE CONTRACTOR IS TO ALLOW CONTINGENCY FOR REMOVAL AND TREATMENT OF SOFT SPOTS, POOR SUBGRADE IMPROVEMENTS, AND EXCAVATION OF ROCKY MATERIAL THAT MAY BE ENCOUNTERED DURING THE WORKS.
12. THE CONTRACTOR SHALL INCLUDE FOR STRIPPING TOPSOIL, FORMING AND GRADING OF EARTHWORKS, DISPOSAL OF SURPLUS AND UNSUITABLE MATERIALS OFFSITE, AND THE TRIMMING AND SHAPING TO ALIGNMENTS. THE CONTRACTOR SHALL ALLOW FOR MAKING GOOD ALL DISTURBED SURFACES, ALSO REFERRING TO THE LANDSCAPE PROPOSALS ON THE ARCHITECTS PLANS
13. THE CONTRACTOR SHALL REVIEW AVAILABLE GEOTECHNICAL INVESTIGATION AND REPORTING AND IMPLEMENT ALL REQUIREMENTS AND RECOMMENDATIONS MAKING REFERENCE TO FOLLOWING DOCUMENTS:
    - GEOTECHNICAL INVESTIGATION REPORT BY FORTIFY GEOTECH REF AP/C15916
14. VOLUMES HAVE BEEN CALCULATED BETWEEN THE EXISTING SURVEYED SURFACE LESS PAVEMENT THICKNESS (APPROX. 300mm BASED ON THE GEOTECHNICAL REPORT) TO BULK EXCAVATION LEVELS AS SHOWN ON PROPOSED PAVEMENT DETAILS.

C065 C061 C062 C063 C064 C066 C067

HANNA ENDERS LANE
JOAN KELLET WAY
JOAN KELLET WAY
HANNA ENDERS LANE
JOAN KELLET WAY
COWPER STREET
BADHAM STREET
DICKSON PLACE

SERVICE CLASHES
CONTRACTOR TO REFER TO SERVICES DOCUMENTATION AND LIAISE WITH THE RELEVANT AUTHORITY TO MITIGATE ANY SERVICE CLASHES WITH THE PROPOSED WORKS.

WARNING
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REV	DATE	BY	DESCRIPTION	CHK	APP
P8	28/05/2025	J.C	DESIGN ACCEPTANCE ISSUE	M.B	J.L
P7	24/04/2025	J.C	100% DOCUMENT READINESS	MB	J.L
P6	08/04/2025	J.C	100% DOCUMENT READINESS	M.B	J.L
P5	07/02/2025	J.C	100% DOCUMENT READINESS	MB	J.L
P4	31/01/2025	J.C	100% DOCUMENT READINESS	J.L	J.L
P3	08/11/2024	J.C	DOCUMENT READINESS (75%)	M.B	J.L
P2	02/10/2024	J.C	FINAL FSP ISSUE	J.L	J.L
P1	16/09/2024	J.C	DRAFT FSP ISSUE	J.L	J.L

DRAWING STATUS: **FOR APPROVAL**
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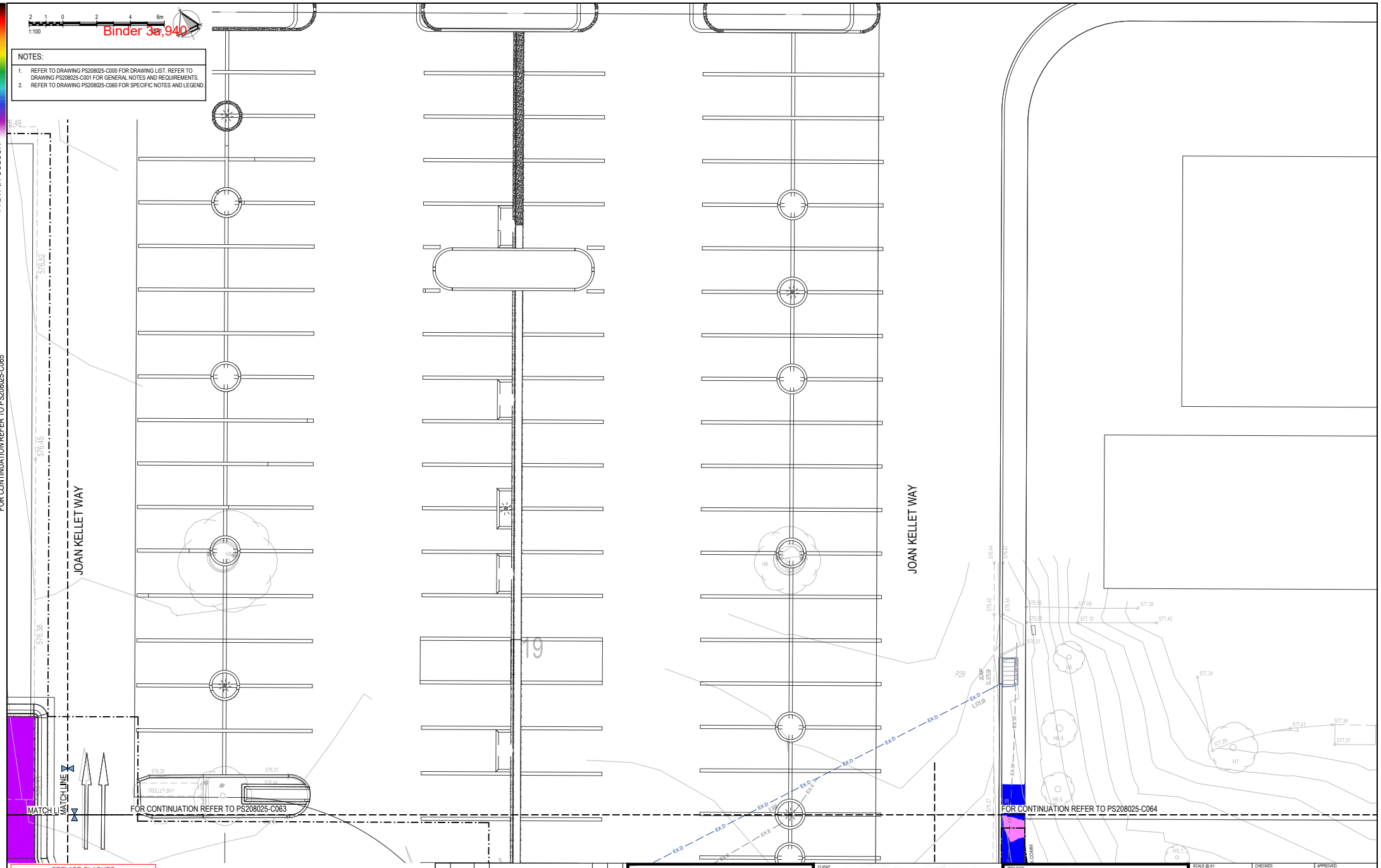
CLIENT: ACT Government — CITY RENEWAL AUTHORITY
ARCHITECT: OCULUS

PROJECT: DICKSON SHOPS AND STREETSCAPE
TITLE: EARTHWORKS CUT AND FILL OVERALL LAYOUT PLAN

SCALE @ A1:	CHECKED:	APPROVED:
1:###	I.Y	J.L
PROJECT NUMBER:	DRAWN:	DATE:
PS208025	J.P	23/05/2025
DRAWING No: C060		REV: P8

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DATE PLOTTED: 23/05/2025 12:33:39 PM BY: CAB[OT]KS, JAYVEE


Binder 3a,940
NOTES:
1. REFER TO DRAWING PS208025-C000 FOR DRAWING LIST. REFER TO DRAWING PS208025-C001 FOR GENERAL NOTES AND REQUIREMENTS.
2. REFER TO DRAWING PS208025-C060 FOR SPECIFIC NOTES AND LEGEND.
JOAN KELLET WAY
JOAN KELLET WAY
MATCH LINE
MATCH LINE
FOR CONTINUATION REFER TO PS208025-C063
FOR CONTINUATION REFER TO PS208025-C064
FOR CONTINUATION REFER TO PS208025-C065
PRINT IN COLOUR
SERVICE CLASHES
CONTRACTOR TO REFER TO SERVICES DOCUMENTATION AND LIAISE WITH THE RELEVANT AUTHORITY TO MITIGATE ANY SERVICE CLASHES WITH THE PROPOSED WORKS.
WARNING
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P8 28/05/2025 J.C DESIGN ACCEPTANCE ISSUE M.B J.L
P7 24/04/2025 J.C 100% DOCUMENT READINESS M.B J.L
P6 08/04/2025 J.C 100% DOCUMENT READINESS M.B J.L
P5 07/02/2025 J.C 100% DOCUMENT READINESS M.B J.L
P4 31/01/2025 J.C 100% DOCUMENT READINESS J.L J.L
P3 08/11/2024 J.C DOCUMENT READINESS (75%) M.B J.L
P2 02/10/2024 J.C FINAL FSP ISSUE J.L J.L
P1 16/09/2024 J.C DRAFT FSP ISSUE J.L J.L
REV DATE BY DESCRIPTION CHK APP
DRAWING STATUS: FOR APPROVAL
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CLIENT:
ACT Government
CITY RENEWAL AUTHORITY
ARCHITECT:
OCULUS
PROJECT:
DICKSON SHOPS AND STREETSCAPE
TITLE:
EARTHWORKS CUT AND FILL LAYOUT PLAN
SHEET 1
SCALE @ A1: 1:100
CHECKED: I.Y
APPROVED: J.L
PROJECT NUMBER: PS208025
DRAWN: J.P
DATE: 23/05/2025
DRAWING No: C061
REV: P8
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Binder 3a,941

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FOR CONTINUATION REFER TO PS208025-C065

FOR CONTINUATION REFER TO PS208025-C063

NOTES:

1. REFER TO DRAWING PS208025-C000 FOR DRAWING LIST. REFER TO DRAWING PS208025-C001 FOR GENERAL NOTES AND REQUIREMENTS.
2. REFER TO DRAWING PS208025-C060 FOR SPECIFIC NOTES AND LEGEND.

MATCH LINE

HANNA ENDERS LANE

001

31

8

FOR CONTINUATION REFER TO PS208025-C066

SERVICE CLASHES
CONTRACTOR TO REFER TO SERVICES DOCUMENTATION AND LIAISE WITH THE RELEVANT AUTHORITY TO MITIGATE ANY SERVICE CLASHES WITH THE PROPOSED WORKS.

WARNING
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REV	DATE	BY	DESCRIPTION	CHK	APP
P8	28/05/2025	J.C	DESIGN ACCEPTANCE ISSUE	M.B	J.L
P7	24/04/2025	J.C	100% DOCUMENT READINESS	MB	J.L
P6	08/04/2025	J.C	100% DOCUMENT READINESS	M.B	J.L
P5	07/02/2025	J.C	100% DOCUMENT READINESS	MB	J.L
P4	31/01/2025	J.C	100% DOCUMENT READINESS	J.L	J.L
P3	08/11/2024	J.C	DOCUMENT READINESS (75%)	M.B	J.L
P2	02/10/2024	J.C	FINAL FSP ISSUE	J.L	J.L
P1	16/09/2024	J.C	DRAFT FSP ISSUE	J.L	J.L

DRAWING STATUS: FOR APPROVAL
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CLIENT: ACT Government — CITY RENEWAL AUTHORITY

ARCHITECT: OCULUS

PROJECT: DICKSON SHOPS AND STREETSCAPE

TITLE: EARTHWORKS CUT AND FILL LAYOUT PLAN SHEET 2

SCALE @ A1:	CHECKED:	APPROVED:
1:100	I.Y	J.L
PROJECT NUMBER:	DRAWN:	DATE:
PS208025	J.P	23/05/2025
DRAWING No:		REV:
C062		P8

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DATE PLOTTED: 23/05/2025 12:33:43 PM BY: CABOTINS, JAYVEE

FOR CONTINUATION REFER TO PS208025-C065

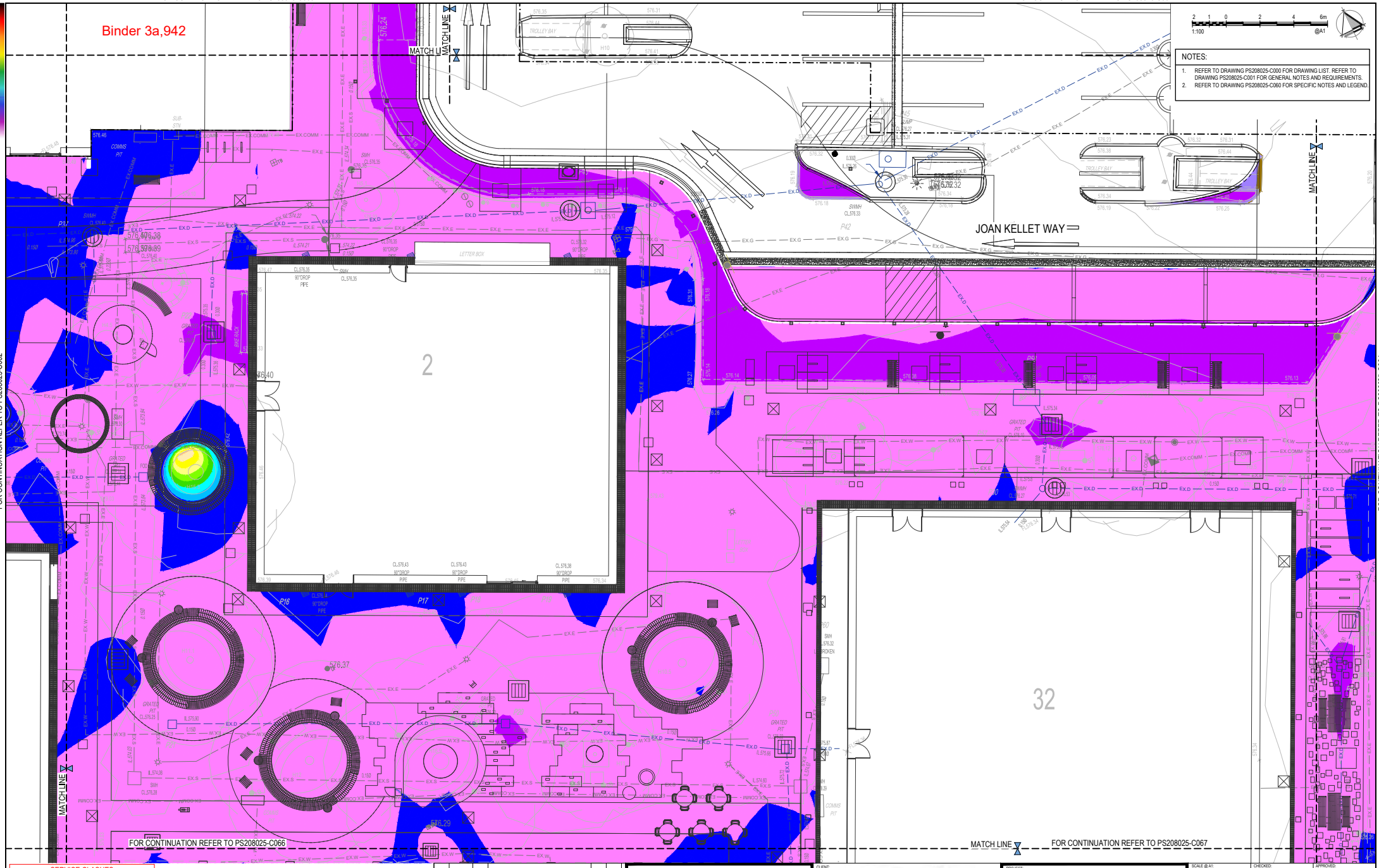
FOR CONTINUATION REFER TO PS208025-C061

Binder 3a,942

PRINT IN COLOUR

FOR CONTINUATION REFER TO PS208025-C062

FOR CONTINUATION REFER TO PS208025-C064



2 1 0 2 4 6m
1:100 @A1

NOTES:

1. REFER TO DRAWING PS208025-C000 FOR DRAWING LIST. REFER TO DRAWING PS208025-C001 FOR GENERAL NOTES AND REQUIREMENTS.
2. REFER TO DRAWING PS208025-C060 FOR SPECIFIC NOTES AND LEGEND.

SERVICE CLASHES
CONTRACTOR TO REFER TO SERVICES DOCUMENTATION AND LIAISE WITH THE RELEVANT AUTHORITY TO MITIGATE ANY SERVICE CLASHES WITH THE PROPOSED WORKS.

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REV	DATE	BY	DESCRIPTION	CHK	APP
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P7	24/04/2025	J.C	100% DOCUMENT READINESS	MB	J.L
P6	08/04/2025	J.C	100% DOCUMENT READINESS	M.B	J.L
P5	07/02/2025	J.C	100% DOCUMENT READINESS	MB	J.L
P4	31/01/2025	J.C	100% DOCUMENT READINESS	J.L	J.L
P3	08/11/2024	J.C	DOCUMENT READINESS (75%)	M.B	J.L
P2	02/10/2024	J.C	FINAL FSP ISSUE	J.L	J.L
P1	16/09/2024	J.C	DRAFT FSP ISSUE	J.L	J.L

DRAWING STATUS: **FOR APPROVAL**
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CLIENT: ACT Government — CITY RENEWAL AUTHORITY

ARCHITECT: OCULUS

PROJECT: DICKSON SHOPS AND STREETSCAPE

TITLE: EARTHWORKS CUT AND FILL LAYOUT PLAN SHEET 3

SCALE @ A1:	CHECKED:	APPROVED:
1:100	I.Y	J.L
PROJECT NUMBER:	DRAWN:	DATE:
PS208025	J.P	23/05/2025
DRAWING No:		REV:
C063		P8

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FOR CONTINUATION REFER TO PS208025-C061

Binder 3a,943

PRINT IN COLOUR

FOR CONTINUATION REFER TO PS208025-C063

MATCH LINE

20

10

COWPER STREET

FOR CONTINUATION REFER TO PS208025-C067

MATCH LINE

2 1 0 2 4 6m
1:100 @A1

NOTES:

1. REFER TO DRAWING PS208025-C000 FOR DRAWING LIST. REFER TO DRAWING PS208025-C001 FOR GENERAL NOTES AND REQUIREMENTS.
2. REFER TO DRAWING PS208025-C060 FOR SPECIFIC NOTES AND LEGEND.

SERVICE CLASHES
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REV	DATE	BY	DESCRIPTION	CHK	APP
P8	28/05/2025	J.C	DESIGN ACCEPTANCE ISSUE	M.B	J.L
P7	24/04/2025	J.C	100% DOCUMENT READINESS	MB	J.L
P6	08/04/2025	J.C	100% DOCUMENT READINESS	M.B	J.L
P5	07/02/2025	J.C	100% DOCUMENT READINESS	MB	J.L
P4	31/01/2025	J.C	100% DOCUMENT READINESS	J.L	J.L
P3	08/11/2024	J.C	DOCUMENT READINESS (75%)	M.B	J.L
P2	02/10/2024	J.C	FINAL FSP ISSUE	J.L	J.L
P1	16/09/2024	J.C	DRAFT FSP ISSUE	J.L	J.L

DRAWING STATUS: FOR APPROVAL
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CLIENT: ACT Government — CITY RENEWAL AUTHORITY

ARCHITECT: OCULUS

PROJECT: DICKSON SHOPS AND STREETSCAPE

TITLE: EARTHWORKS CUT AND FILL LAYOUT PLAN SHEET 4

SCALE @ A1:	CHECKED:	APPROVED:
1:100	I.Y	J.L
PROJECT NUMBER:	DRAWN:	DATE:
PS208025	J.P	23/05/2025
DRAWING No:		REV:
C064		P8

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DATE PLOTTED: 23/05/2025 12:37:42 PM BY: CABOTIKS, JAYVEE

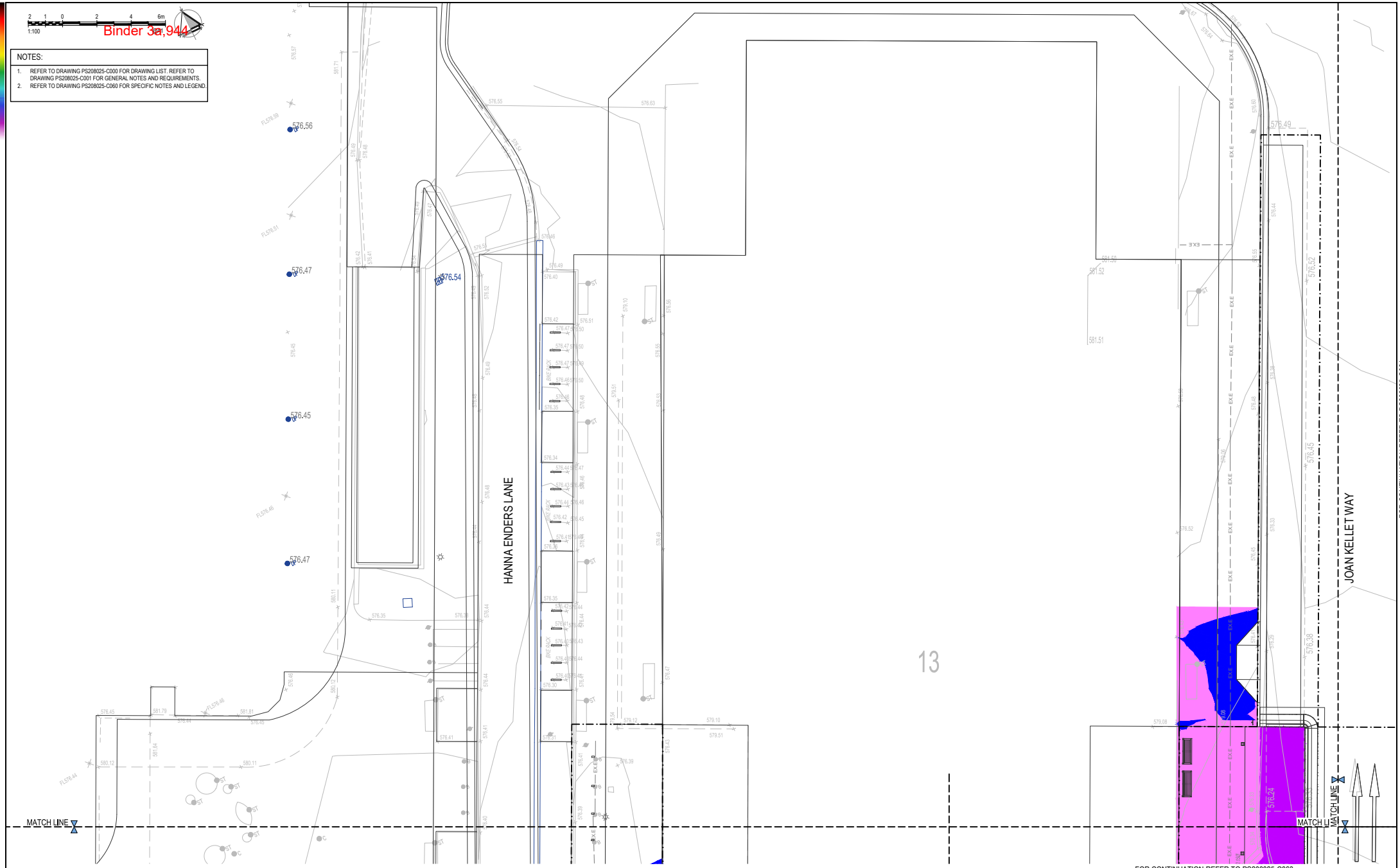
Binder 3a,944

PRINT IN COLOUR

2 1 0 2 4 6m
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NOTES:

1. REFER TO DRAWING PS208025-C000 FOR DRAWING LIST. REFER TO DRAWING PS208025-C001 FOR GENERAL NOTES AND REQUIREMENTS.
2. REFER TO DRAWING PS208025-C060 FOR SPECIFIC NOTES AND LEGEND.



FOR CONTINUATION REFER TO PS208025-C062

FOR CONTINUATION REFER TO PS208025-C063

FOR CONTINUATION REFER TO PS208025-C061

SERVICE CLASHES
CONTRACTOR TO REFER TO SERVICES DOCUMENTATION AND LIAISE WITH THE RELEVANT AUTHORITY TO MITIGATE ANY SERVICE CLASHES WITH THE PROPOSED WORKS.

WARNING
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P3	08/11/2024	J.C	DOCUMENT READINESS (75%)	M.B	J.L
P2	02/10/2024	J.C	FINAL FSP ISSUE	J.L	J.L
P1	16/09/2024	J.C	DRAFT FSP ISSUE	J.L	J.L

DRAWING STATUS: **FOR APPROVAL**
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CLIENT: ACT Government — CITY RENEWAL AUTHORITY

ARCHITECT: OCULUS

PROJECT: DICKSON SHOPS AND STREETSCAPE

TITLE: EARTHWORKS CUT AND FILL LAYOUT PLAN SHEET 5

SCALE @ A1:	CHECKED:	APPROVED:
1:100	I.Y	J.L
PROJECT NUMBER:	DRAWN:	DATE:
PS208025	J.P	23/05/2025
DRAWING No:		REV:
C065		P8

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DATE PLOTTED: 23/05/2025 12:38:41 PM BY : CAB[OT]KS, JAYVEE

FOR CONTINUATION REFER TO PS208025-C062

FOR CONTINUATION REFER TO PS208025-C063

Binder 3a,945

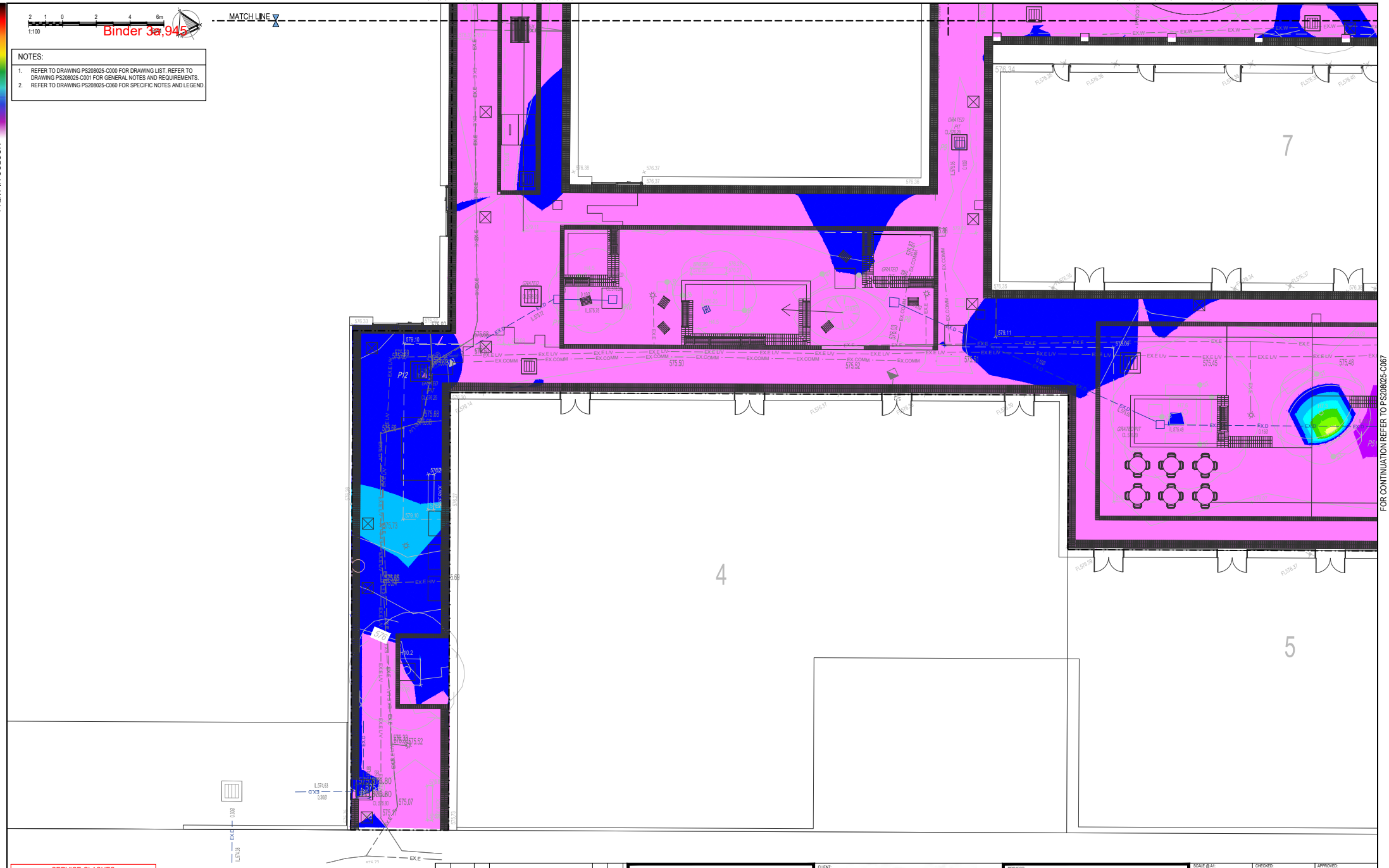
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MATCH LINE

NOTES:

1. REFER TO DRAWING PS208025-C000 FOR DRAWING LIST. REFER TO DRAWING PS208025-C001 FOR GENERAL NOTES AND REQUIREMENTS.
2. REFER TO DRAWING PS208025-C060 FOR SPECIFIC NOTES AND LEGEND.

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FOR CONTINUATION REFER TO PS208025-C067

SERVICE CLASHES
CONTRACTOR TO REFER TO SERVICES DOCUMENTATION AND LIAISE WITH THE RELEVANT AUTHORITY TO MITIGATE ANY SERVICE CLASHES WITH THE PROPOSED WORKS.

WARNING
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REV	DATE	BY	DESCRIPTION	CHK	APP
P8	28/05/2025	J.C	DESIGN ACCEPTANCE ISSUE	M.B	J.L
P7	24/04/2025	J.C	100% DOCUMENT READINESS	MB	J.L
P6	08/04/2025	J.C	100% DOCUMENT READINESS	M.B	J.L
P5	07/02/2025	J.C	100% DOCUMENT READINESS	MB	J.L
P4	31/01/2025	J.C	100% DOCUMENT READINESS	J.L	J.L
P3	08/11/2024	J.C	DOCUMENT READINESS (75%)	M.B	J.L
P2	02/10/2024	J.C	FINAL FSP ISSUE	J.L	J.L
P1	16/09/2024	J.C	DRAFT FSP ISSUE	J.L	J.L

DRAWING STATUS: **FOR APPROVAL**
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CLIENT: ACT Government — CITY RENEWAL AUTHORITY

ARCHITECT: OCULUS

PROJECT: DICKSON SHOPS AND STREETSCAPE

TITLE: EARTHWORKS CUT AND FILL LAYOUT PLAN SHEET 6

SCALE @ A1:	CHECKED:	APPROVED:
1:100	I.Y	J.L
PROJECT NUMBER:	DRAWN:	DATE:
PS208025	J.P	23/05/2025
DRAWING No:		REV:
C066		P8

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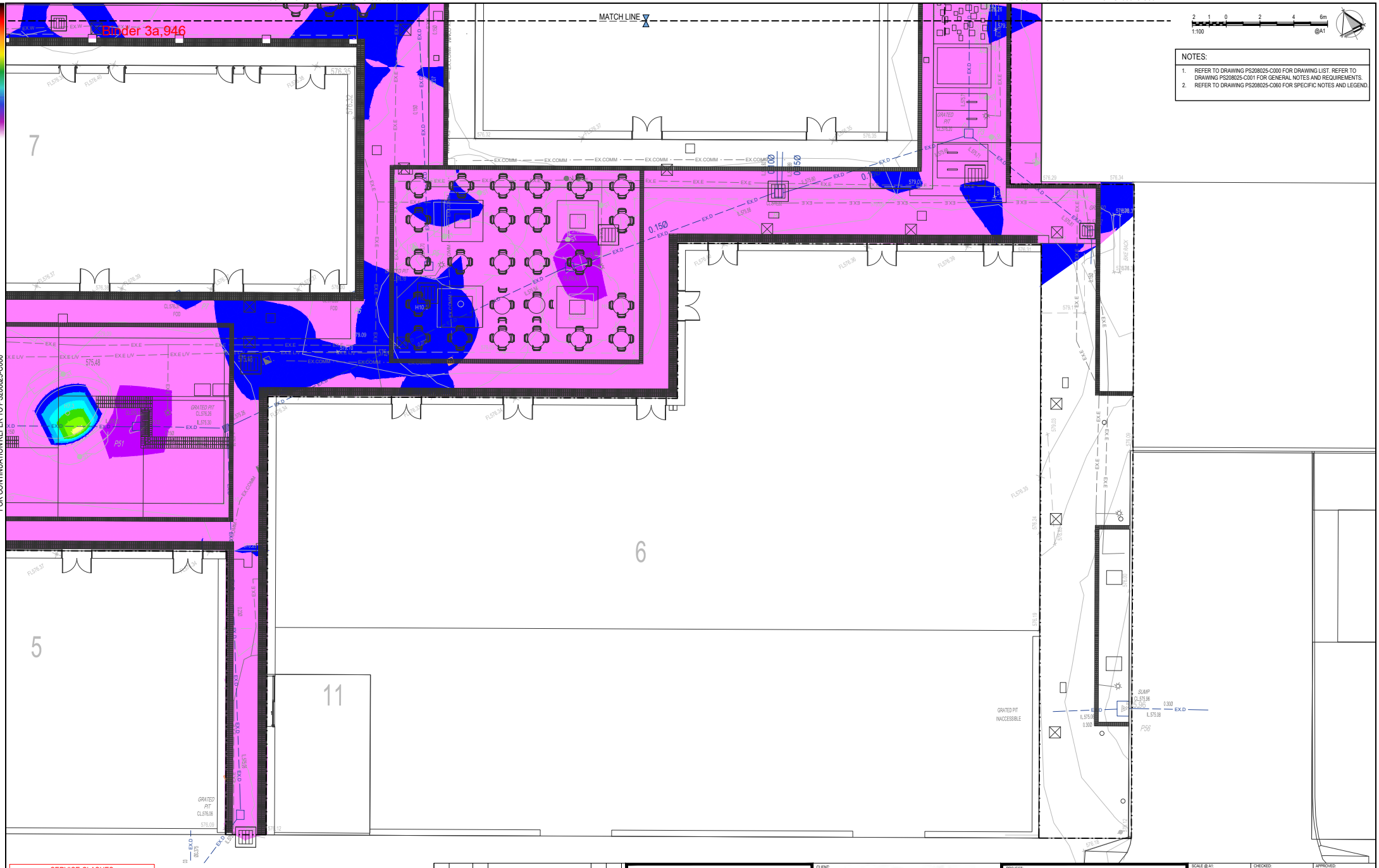
DATE PLOTTED: 23/05/2025 12:39:42 PM BY: CAB[OT]KS, JAYVEE

FOR CONTINUATION REFER TO PS208025-C063

FOR CONTINUATION REFER TO PS208025-C064

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FOR CONTINUATION REFER TO PS208025-C066



2 1 0 2 4 6m
1:100 @A1

NOTES:

1. REFER TO DRAWING PS208025-C000 FOR DRAWING LIST. REFER TO DRAWING PS208025-C001 FOR GENERAL NOTES AND REQUIREMENTS.
2. REFER TO DRAWING PS208025-C060 FOR SPECIFIC NOTES AND LEGEND.

SERVICE CLASHES

CONTRACTOR TO REFER TO SERVICES DOCUMENTATION AND LIAISE WITH THE RELEVANT AUTHORITY TO MITIGATE ANY SERVICE CLASHES WITH THE PROPOSED WORKS.

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P7	24/04/2025	J.C	100% DOCUMENT READINESS	MB	J.L
P6	08/04/2025	J.C	100% DOCUMENT READINESS	M.B	J.L
P5	07/02/2025	J.C	100% DOCUMENT READINESS	MB	J.L
P4	31/01/2025	J.C	100% DOCUMENT READINESS	J.L	J.L
P3	08/11/2024	J.C	DOCUMENT READINESS (75%)	M.B	J.L
P2	02/10/2024	J.C	FINAL FSP ISSUE	J.L	J.L
P1	16/09/2024	J.C	DRAFT FSP ISSUE	J.L	J.L

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CLIENT: ACT Government — CITY RENEWAL AUTHORITY

ARCHITECT: OCULUS

PROJECT: DICKSON SHOPS AND STREETSCAPE

TITLE: EARTHWORKS CUT AND FILL LAYOUT PLAN SHEET 7

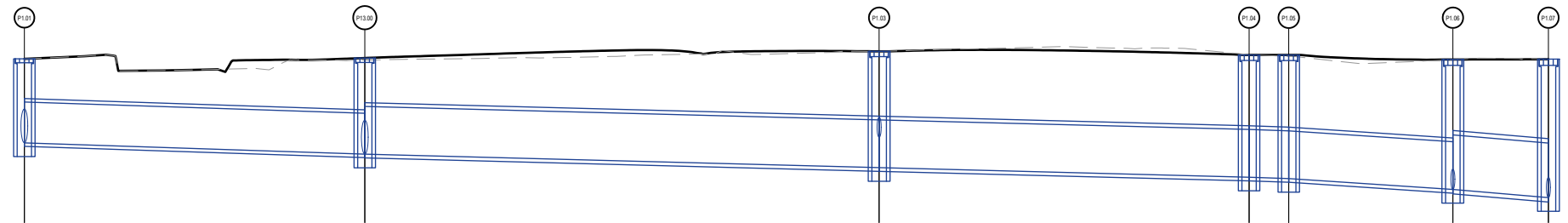
SCALE @ A1:	CHECKED:	APPROVED:
1:100	I.Y	J.L
PROJECT NUMBER:	DRAWN:	DATE:
PS208025	J.P	23/05/2025
DRAWING No:		REV:
C067		P8

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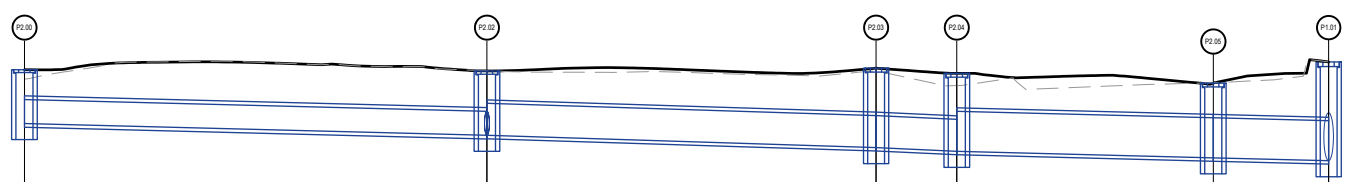


LENGTH (m)	18.74	28.32	20.37	2.18	9.03	5.26
PIPE DIAMETER (mm)	450Ø	525Ø	525Ø	525Ø	525Ø	600Ø
GRADE	1:152	1:191	1:194	1:146	1:75	1:58
HGL & FLOW RATE (AEP:10%+ 20%CC)	575.54m 0.048cms 575.5m	575.48m 0.088cms 575.4m	575.36m 0.106cms 575.3		575.21m	575.07m

DATUM 574.000

DEPTH TO INVERT	0.93	1.06 1.06	1.28 1.28	1.34 1.34	1.36 1.36	1.43 1.43	1.52
PIPE COVER	0.438	0.570 0.492	0.714 0.714	0.779 0.779	0.794 0.794	0.864 0.781	0.874
DESIGN INVERT LEVELS	575.39	575.27 575.27	575.12 575.12	575.02 575.02	575.00 575.00	574.88 574.88	574.79
DESIGN SURFACE LEVEL	576.318	576.326	576.400	576.360	576.360	576.310	576.313
EXISTING SURFACE LEVEL	576.318	576.304	576.399	576.363	576.344	576.309	576.315
CHAINAGE	61.054	18.743	47.061	67.428	69.613	78.647	83.909

LONGITUDINAL SECTION - LINE A
SCALE H1:250, V1:50

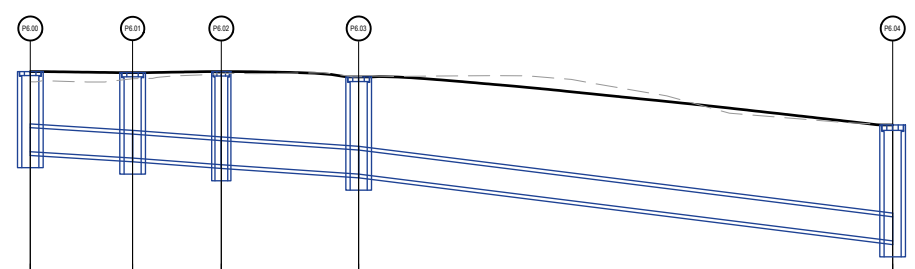


LENGTH (m)	21.65	18.22	3.78	12.01	5.40
PIPE DIAMETER (mm)	225Ø	300Ø	300Ø	375Ø	375Ø
GRADE	1:197	1:158	1:108	1:197	1:200
HGL & FLOW RATE (AEP:10%+ 20%CC)	575.80m 0.005cms 575.8m	575.78m 0.033cms 575.7m	575.68m	575.64m 0.038cms 575.6m	575.58m

DATUM 574.000

DEPTH TO INVERT	0.50	0.60 0.60	0.74 0.74	0.73 0.73	0.70 0.70	0.93
PIPE COVER	0.244	0.343 0.271	0.411 0.411	0.398 0.323	0.292 0.292	0.519
DESIGN INVERT LEVELS	575.74	575.63 575.63	575.52 575.52	575.48 575.48	575.42 575.42	575.39
DESIGN SURFACE LEVEL	576.244	576.233	576.258	576.210	576.118	576.318
EXISTING SURFACE LEVEL	576.156	576.235	576.234	576.096	576.123	576.318
CHAINAGE	0.000	21.650	39.868	43.647	55.655	61.054

LONGITUDINAL SECTION - LINE B
SCALE H1:250, V1:50



LENGTH (m)	4.79	4.15	6.43	25.00
PIPE DIAMETER (mm)	225Ø	225Ø	225Ø	225Ø
GRADE	1:80	1:67	1:73	1:40
HGL & FLOW RATE (AEP:10%+ 20%CC)	575.55m	575.54m	575.50m	575.45m 0.033cms 574.9m

DATUM 574.000

DEPTH TO INVERT	0.75	0.80 0.80	0.87 0.87	0.91 0.91	1.08
PIPE COVER	0.490	0.540 0.540	0.612 0.612	0.650 0.650	0.825
DESIGN INVERT LEVELS	575.55	575.49 575.49	575.43 575.43	575.34 575.34	574.72
DESIGN SURFACE LEVEL	576.300	576.290	576.300	576.250	575.800
EXISTING SURFACE LEVEL	576.204	576.233	576.284	576.252	575.802
CHAINAGE	0.000	4.790	8.942	15.373	40.369

LONGITUDINAL SECTION - LINE C
SCALE H1:250, V1:50

SERVICE CLASHES
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P7	24/04/2025	J.C	100% DOCUMENT READINESS	MB	J.L
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P5	07/02/2025	J.C	100% DOCUMENT READINESS	MB	J.L
P4	31/01/2025	J.C	100% DOCUMENT READINESS	J.L	J.L
P3	08/11/2024	J.C	DOCUMENT READINESS (75%)	M.B	J.L
P2	02/10/2024	J.C	FINAL FSP ISSUE	J.L	J.L
P1	16/09/2024	J.C	DRAFT FSP ISSUE	J.L	J.L

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ARCHITECT: OCULUS

PROJECT: DICKSON SHOPS AND STREETSCAPE

TITLE: STORMWATER DRAINAGE PROFILES SHEET 1

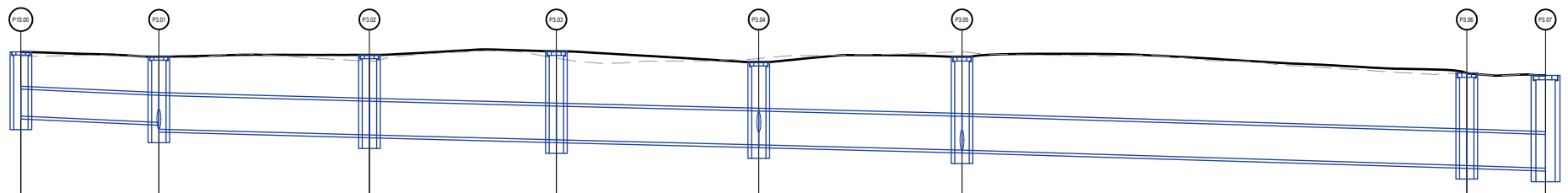
SCALE @ A1:	CHECKED:	APPROVED:
N.T.S	I.Y	J.L
PROJECT NUMBER:	DRAWN:	DATE:
PS208025	J.P	10/06/2025
DRAWING No:	C071	REV: P8

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DATE PLOTTED: 10/06/2025 11:27:48 AM BY : CABIGTING, JAYVEE

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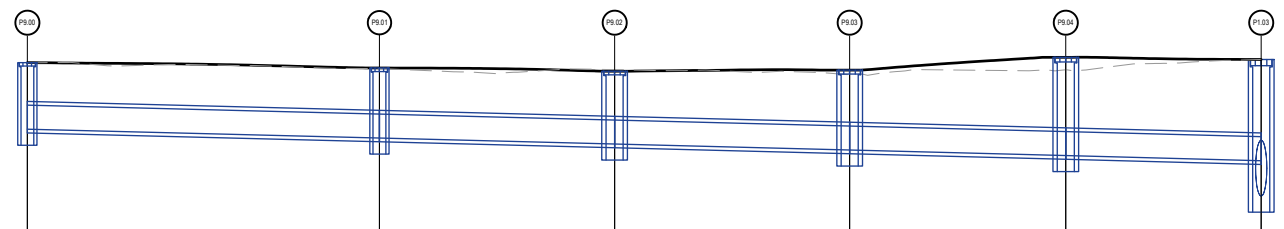


LENGTH (m)	7.66	11.69	10.38	11.23	11.28	28.02	4.37
PIPE DIAMETER (mm)	300Ø	375Ø	375Ø	375Ø	375Ø	375Ø	375Ø
GRADE	1:111	1:183	1:192	1:201	1:194	1:163	1:146
HGL & FLOW RATE (AEP:10%+ 20%CC)	575.89m cms)m	575.89m 0.002cms 575.9m	575.89m .000cms ;75.4m	575.45m 0.005cms 575.4m	575.44m 0.033cms 575.4m	575.41m 0.058cms 575.2m	575.24m

DATUM 574.000

DEPTH TO INVERT	0.71	0.73 / 0.81	0.89 / 0.89	0.98 / 0.98	0.92 / 0.92	1.04 / 1.04	1.03 / 1.03	1.03
PIPE COVER	0.382	0.398 / 0.399	0.483 / 0.483	0.577 / 0.577	0.513 / 0.513	0.631 / 0.631	0.622 / 0.622	0.624
DESIGN INVERT LEVELS	575.61	575.54 / 575.46	575.40 / 575.40	575.35 / 575.35	575.29 / 575.29	575.23 / 575.23	575.06 / 575.06	575.03
DESIGN SURFACE LEVEL	576.323	576.270	576.290	576.330	576.210	576.270	576.089	576.061
EXISTING SURFACE LEVEL	576.275	576.263	576.221	576.253	576.250	576.326	576.085	576.061
CHAINAGE	0.000	7.659	19.346	29.722	40.956	52.235	80.251	84.623

LONGITUDINAL SECTION - LINE D
SCALE H1:250, V1:50

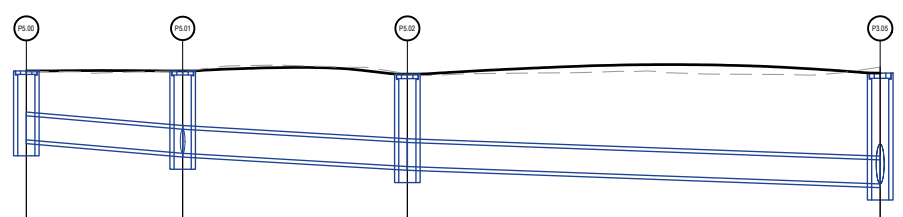


LENGTH (m)	16.48	11.01	11.00	10.12	9.15
PIPE DIAMETER (mm)	225Ø	225Ø	225Ø	225Ø	225Ø
GRADE	1:199	1:197	1:197	1:195	1:191
HGL & FLOW RATE (AEP:10%+ 20%CC)	575.75m 0.000cms 575.7m	575.72m).003cms 575.7m	575.71m).011cms 575.6m	575.65m 011cms 75.6m	575.59m 10cms 5.4m

DATUM 574.000

DEPTH TO INVERT	0.62	0.66 / 0.66	0.68 / 0.68	0.75 / 0.75	0.92 / 0.92	0.95
PIPE COVER	0.363	0.396 / 0.396	0.422 / 0.422	0.488 / 0.488	0.660 / 0.660	0.688
DESIGN INVERT LEVELS	575.75	575.66 / 575.66	575.61 / 575.61	575.55 / 575.55	575.50 / 575.50	575.45
DESIGN SURFACE LEVEL	576.370	576.320	576.290	576.300	576.420	576.400
EXISTING SURFACE LEVEL	576.368	576.315	576.305	576.256	576.303	576.399
CHAINAGE	0.000	16.481	27.490	38.494	48.610	47.061

LONGITUDINAL SECTION - LINE E
SCALE H1:250, V1:50

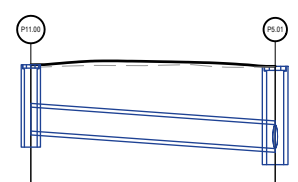


LENGTH (m)	7.32	10.52	22.13
PIPE DIAMETER (mm)	225Ø	225Ø	225Ø
GRADE	1:58	1:85	1:136
HGL & FLOW RATE (AEP:10%+ 20%CC)	575.69m :ms m	575.60m .013cms ;75.5m	575.51m 0.019cms 575.4m

DATUM 574.000

DEPTH TO INVERT	0.64	0.77 / 0.77	0.87 / 0.87	1.04
PIPE COVER	0.385	0.511 / 0.511	0.605 / 0.605	0.778
DESIGN INVERT LEVELS	575.64	575.52 / 575.52	575.40 / 575.40	575.23
DESIGN SURFACE LEVEL	576.290	576.290	576.260	576.270
EXISTING SURFACE LEVEL	576.286	576.286	576.263	576.326
CHAINAGE	0.000	7.319	17.837	52.235

LONGITUDINAL SECTION - LINE F
SCALE H1:250, V1:50

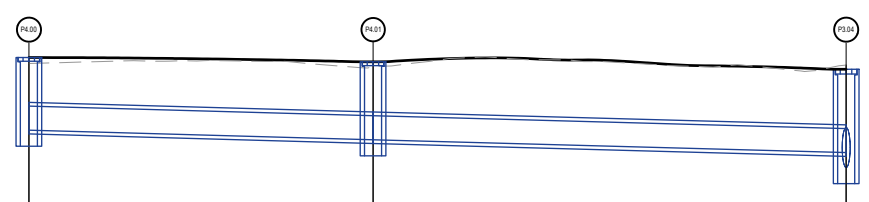


LENGTH (m)	11.44
PIPE DIAMETER (mm)	225Ø
GRADE	1:70
HGL & FLOW RATE (AEP:10%+ 20%CC)	575.71m 0.002cms 575.6m

DATUM 574.000

DEPTH TO INVERT	0.62	0.77
PIPE COVER	0.362	0.511
DESIGN INVERT LEVELS	575.68	575.52
DESIGN SURFACE LEVEL	576.305	576.290
EXISTING SURFACE LEVEL	576.281	576.286
CHAINAGE	0.000	7.319

LONGITUDINAL SECTION - LINE F.2
SCALE H1:250, V1:50



LENGTH (m)	16.11	22.15
PIPE DIAMETER (mm)	225Ø	225Ø
GRADE	1:179	1:185
HGL & FLOW RATE (AEP:10%+ 20%CC)	575.73m 0.011cms 575.7m	575.69m 0.021cms 575.4m

DATUM 574.000

DEPTH TO INVERT	0.68	0.73 / 0.73	0.78
PIPE COVER	0.420	0.470 / 0.470	0.520
DESIGN INVERT LEVELS	575.64	575.55 / 575.55	575.43
DESIGN SURFACE LEVEL	576.320	576.280	576.210
EXISTING SURFACE LEVEL	576.264	576.235	576.250
CHAINAGE	0.000	16.113	40.956

LONGITUDINAL SECTION - LINE G
SCALE H1:250, V1:50

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P5	07/02/2025	J.C	100% DOCUMENT READINESS	MB	J.L
P4	31/01/2025	J.C	100% DOCUMENT READINESS	J.L	J.L
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P1	16/09/2024	J.C	DRAFT FSP ISSUE	J.L	J.L

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ARCHITECT: OCULUS

PROJECT: DICKSON SHOPS AND STREETSCAPE

TITLE: STORMWATER DRAINAGE PROFILES SHEET 2

SCALE @ A1: N.T.S	CHECKED: I.Y	APPROVED: J.L
PROJECT NUMBER: PS208025	DRAWN: J.P	DATE: 10/06/2025
DRAWING No: C072		REV: P8

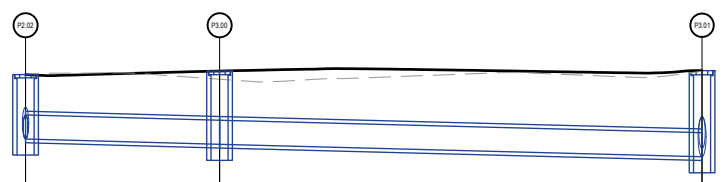
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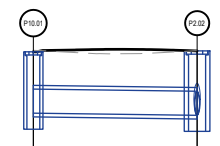


LENGTH (m)	9.08	22.59	
PIPE DIAMETER (mm)	225Ø	225Ø	
GRADE	1:182	1:194	
HGL & FLOW RATE (AEP:10%+ 20%CC)	575.78m)01cms 5.8m	575.84m 0.002cms 575.9m	

DATUM 574.000

DEPTH TO INVERT	0.60	0.69 0.69	0.81
PIPE COVER	0.343	0.426 0.426	0.546
DESIGN INVERT LEVELS	575.63	575.58 575.58	575.46
DESIGN SURFACE LEVEL	576.233	576.266	576.270
EXISTING SURFACE LEVEL	576.235	576.189	576.263
CHAINAGE	21.650	9.082	7.659

LONGITUDINAL SECTION - LINE H
SCALE H1:250, V1:50

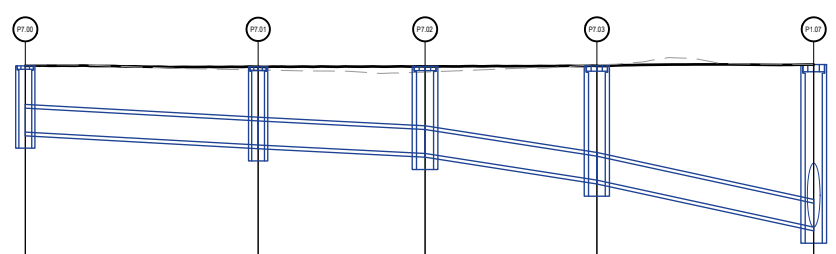


LENGTH (m)	7.67
PIPE DIAMETER (mm)	225Ø
GRADE	1:383
HGL & FLOW RATE (AEP:10%+ 20%CC)	575.78m cms 3m

DATUM 574.000

DEPTH TO INVERT	0.57	0.60
PIPE COVER	0.315	0.343
DESIGN INVERT LEVELS	575.65	575.63
DESIGN SURFACE LEVEL	576.225	576.233
EXISTING SURFACE LEVEL	576.238	576.235
CHAINAGE	0.000	21.650

LONGITUDINAL SECTION - LINE H.2
SCALE H1:250, V1:50

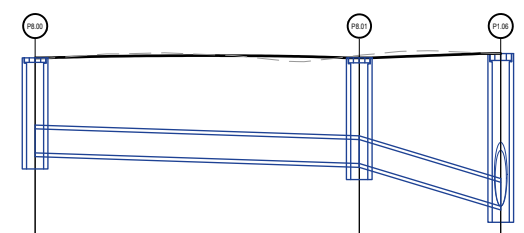


LENGTH (m)	10.90	7.81	8.04	10.15
PIPE DIAMETER (mm)	225Ø	225Ø	225Ø	225Ø
GRADE	1:91	1:98	1:32	1:23
HGL & FLOW RATE (AEP:10%+ 20%CC)	575.75m).009cms 575.6m	575.63m cms 5m	575.53m)cms 3m	575.30m 017cms 74.9m

DATUM 574.000

DEPTH TO INVERT	0.62	0.73 0.73	0.82 0.82	1.07 1.07	1.52
PIPE COVER	0.360	0.472 0.472	0.555 0.555	0.811 0.811	1.263
DESIGN INVERT LEVELS	575.68	575.56 575.56	575.48 575.48	575.23 575.23	574.79
DESIGN SURFACE LEVEL	576.300	576.292	576.295	576.301	576.313
EXISTING SURFACE LEVEL	576.314	576.263	576.242	576.311	576.315
CHAINAGE	0.000	10.898	18.713	26.757	83.909

LONGITUDINAL SECTION - LINE I
SCALE H1:250, V1:50



LENGTH (m)	15.17	6.62
PIPE DIAMETER (mm)	225Ø	225Ø
GRADE	1:152	1:17
HGL & FLOW RATE (AEP:10%+ 20%CC)	575.44m 0.006cms 575.3m	575.31m ms 1

DATUM 574.000

DEPTH TO INVERT	0.89	0.99 0.99	1.43
PIPE COVER	0.630	0.730 0.730	1.170
DESIGN INVERT LEVELS	575.38	575.28 575.28	574.88
DESIGN SURFACE LEVEL	576.270	576.270	576.310
EXISTING SURFACE LEVEL	576.260	576.295	576.309
CHAINAGE	0.000	15.174	78.647

LONGITUDINAL SECTION - LINE J
SCALE H1:250, V1:50

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REV	DATE	BY	DESCRIPTION	CHK	APP
P8	28/05/2025	J.C	DESIGN ACCEPTANCE ISSUE	M.B	J.L
P7	24/04/2025	J.C	100% DOCUMENT READINESS	MB	J.L
P6	08/04/2025	J.C	100% DOCUMENT READINESS	M.B	J.L
P5	07/02/2025	J.C	100% DOCUMENT READINESS	MB	J.L
P4	31/01/2025	J.C	100% DOCUMENT READINESS	J.L	J.L
P3	08/11/2024	J.C	DOCUMENT READINESS (75%)	M.B	J.L
P2	02/10/2024	J.C	FINAL FSP ISSUE	J.L	J.L
P1	16/09/2024	J.C	DRAFT FSP ISSUE	J.L	J.L

DRAWING STATUS: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

http://www.wsp.com

CLIENT: ACT Government CITY RENEWAL AUTHORITY

ARCHITECT: OCULUS

PROJECT: DICKSON SHOPS AND STREETSCAPE

TITLE: STORMWATER DRAINAGE PROFILES SHEET 3

SCALE @ A1:	CHECKED:	APPROVED:
N.T.S	I.Y	J.L
PROJECT NUMBER: PS208025	DRAWN: J.P	DATE: 10/06/2025
DRAWING No: C073		REV: P8

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DATE PLOTTED: 10/06/2025 11:28:08 AM BY : CABIGTING, JAYVEE

PRINT IN COLOUR

Binder 3a,950

PIT SCHEDULE

PIT NAME	SETOUT COORDS	INTERNAL DIMENSIONS (mmxmm)	INTERNAL DIMENSIONS (mm ∅)	INLET DIA (mm)	INLET INV (m)	OUTLET DIA (mm)	OUTLET INV (m)	PIT SETOUT CL	PIT DEPTH (m)	PIT TYPES
P1.01	E: 694686.955 N: 6097133.991	-	1.050mm ∅	375Ø	575.392	450Ø	575.392	576.318	0.926	SEALED PIT
P1.03	E: 694643.322 N: 6097151.606	900mmx900mm	-	225Ø 525Ø	575.452 575.120	525Ø	575.120	576.400	1.280	GRATED PIT
P1.04	E: 694624.844 N: 6097160.173	-	1.050mm ∅	525Ø	575.015	525Ø	575.015	576.360	1.345	SEALED PIT
P1.05	E: 694622.852 N: 6097161.069	-	1.050mm ∅	525Ø	575.000	525Ø	575.000	576.360	1.360	SEALED PIT
P1.06	E: 694616.453 N: 6097154.691	900mmx900mm	-	525Ø 225Ø	574.880 574.880	600Ø	574.880	576.310	1.430	GRATED PIT
P1.07	E: 694611.469 N: 6097156.377	900mmx900mm	-	600Ø 225Ø	574.790 574.790			576.313	1.523	GRATED PIT
P2.00	E: 694725.457 N: 6097099.575	900mmx900mm	-			225Ø	575.740	576.244	0.504	GRATED PIT
P2.02	E: 694704.913 N: 6097106.406	900mmx900mm	-	225Ø 225Ø	575.630 575.630	300Ø 225Ø	575.630 575.630	576.233	0.603	GRATED PIT
P2.03	E: 694688.052 N: 6097113.307	-	1.050mm ∅	300Ø	575.515	300Ø	575.515	576.258	0.743	SEALED PIT
P2.04	E: 694689.547 N: 6097116.778	900mmx900mm	-	300Ø	575.480	375Ø	575.480	576.210	0.730	GRATED PIT
P2.05	E: 694687.755 N: 6097128.652	900mmx900mm	-	375Ø	575.419	375Ø	575.419	576.118	0.699	GRATED PIT
P3.00	E: 694700.270 N: 6097098.600	900mmx900mm	-	225Ø	575.580	225Ø	575.580	576.266	0.686	GRATED PIT
P3.01	E: 694690.272 N: 6097078.345	900mmx900mm	-	300Ø 225Ø	575.540 575.464	375Ø	575.464	576.270	0.806	GRATED PIT
P3.02	E: 694679.380 N: 6097082.581	900mmx900mm	-	375Ø	575.400	375Ø	575.400	576.290	0.890	GRATED PIT
P3.03	E: 694669.213 N: 6097084.653	900mmx900mm	-	375Ø	575.346	375Ø	575.346	576.330	0.984	GRATED PIT
P3.04	E: 694658.090 N: 6097086.228	900mmx900mm	-	225Ø 375Ø	575.430 575.290	375Ø	575.290	576.210	0.920	GRATED PIT
P3.05	E: 694646.840 N: 6097087.044	900mmx900mm	-	225Ø 375Ø	575.232 575.232	375Ø	575.232	576.270	1.038	GRATED PIT
P3.06	E: 694634.317 N: 6097061.983	900mmx900mm	-	375Ø	575.060	375Ø	575.060	576.089	1.029	GRATED PIT
P3.07	E: 694630.094 N: 6097060.849	830mmx1300mm	-	375Ø	575.030			576.061	1.031	TYPE R
P4.00	E: 694654.266 N: 6097116.409	900mmx900mm	-			225Ø	575.640	576.320	0.680	GRATED PIT

PIT SCHEDULE

PIT NAME	SETOUT COORDS	INTERNAL DIMENSIONS (mmxmm)	INTERNAL DIMENSIONS (mm ∅)	INLET DIA (mm)	INLET INV (m)	OUTLET DIA (mm)	OUTLET INV (m)	PIT SETOUT CL	PIT DEPTH (m)	PIT TYPES
P4.01	E: 694666.982 N: 6097106.512	900mmx900mm	-	225Ø	575.550	225Ø	575.550	576.280	0.730	GRATED PIT
P5.00	E: 694613.951 N: 6097108.644	900mmx900mm	-			225Ø	575.645	576.290	0.645	GRATED PIT
P5.01	E: 694618.320 N: 6097102.773	900mmx900mm	-	225Ø 225Ø	575.519 575.519	225Ø	575.519	576.290	0.771	GRATED PIT
P5.02	E: 694626.955 N: 6097096.765	900mmx900mm	-	225Ø	575.395	225Ø	575.395	576.260	0.865	GRATED PIT
P6.00	E: 694601.038 N: 6097113.620	900mmx900mm	-			225Ø	575.550	576.300	0.750	GRATED PIT
P6.01	E: 694596.782 N: 6097115.820	900mmx900mm	-	225Ø	575.490	225Ø	575.490	576.290	0.800	GRATED PIT
P6.02	E: 694594.870 N: 6097112.135	600mmx600mm	-	225Ø	575.428	225Ø	575.428	576.300	0.872	GRATED PIT
P6.03	E: 694588.958 N: 6097114.666	900mmx900mm	-	225Ø	575.340	225Ø	575.340	576.250	0.910	GRATED PIT
P6.04	E: 694575.037 N: 6097093.904	900mmx900mm	-	225Ø	574.715			575.800	1.085	GRATED PIT
P7.00	E: 694599.603 N: 6097122.155	600mmx600mm	-			225Ø	575.680	576.300	0.620	GRATED PIT
P7.01	E: 694604.411 N: 6097131.936	600mmx600mm	-	225Ø	575.560	225Ø	575.560	576.292	0.732	GRATED PIT
P7.02	E: 694607.707 N: 6097139.022	900mmx900mm	-	225Ø	575.480	225Ø	575.480	576.295	0.815	GRATED PIT
P7.03	E: 694611.280 N: 6097146.229	-	1.050mm ∅	225Ø	575.230	225Ø	575.230	576.301	1.071	SEALED PIT
P8.00	E: 694631.619 N: 6097141.725	900mmx900mm	-			225Ø	575.380	576.270	0.890	GRATED PIT
P8.01	E: 694617.911 N: 6097148.231	900mmx900mm	-	225Ø	575.280	225Ø	575.280	576.270	0.990	GRATED PIT
P9.00	E: 694645.434 N: 6097110.141	600mmx600mm	-			225Ø	575.747	576.370	0.623	GRATED PIT
P9.01	E: 694630.848 N: 6097117.814	600mmx600mm	-	225Ø	575.664	225Ø	575.664	576.320	0.656	GRATED PIT
P9.02	E: 694633.736 N: 6097128.438	900mmx900mm	-	225Ø	575.608	225Ø	575.608	576.290	0.682	GRATED PIT
P9.03	E: 694638.575 N: 6097138.321	900mmx900mm	-	225Ø	575.552	225Ø	575.552	576.300	0.748	GRATED PIT
P9.04	E: 694647.333 N: 6097143.383	900mmx900mm	-	225Ø	575.500	225Ø	575.500	576.420	0.920	GRATED PIT

PIT SCHEDULE

PIT NAME	SETOUT COORDS	INTERNAL DIMENSIONS (mmxmm)	INTERNAL DIMENSIONS (mm ∅)	INLET DIA (mm)	INLET INV (m)	OUTLET DIA (mm)	OUTLET INV (m)	PIT SETOUT CL	PIT DEPTH (m)	PIT TYPES
P10.00	E: 694694.953 N: 6097072.283	900mmx900mm	-			300Ø	575.609	576.323	0.714	GRATED PIT
P10.01	E: 694710.022 N: 6097112.122	600mmx600mm	-			225Ø	575.650	576.225	0.575	GRATED PIT
P11.00	E: 694623.563 N: 6097112.941	600mmx600mm	-			225Ø	575.683	576.305	0.622	GRATED PIT
P12.00	E: 694670.360 N: 6097142.740	600mmx830mm	-			375Ø	575.450	576.327	0.877	TYPE QS
P13.00	E: 694669.430 N: 6097140.640	-	1.050mm ∅	375Ø 450Ø	575.269 575.269	525Ø	575.269	576.326	1.058	SEALED PIT

PIPE SCHEDULE

PIPE NAME	PIPE DIA (mm)	LENGTH (m)	SLOPE (%)	U/S PIT	D/S PIT	U/S INV	D/S INV	PIPE MATERIAL
Pipe 1.02	450Ø	17.70	0.66%	P1.01	P13.00	575.392	575.269	RCP PIPE CLASS 4 RRJ
Pipe 2.01	225Ø	20.74	0.51%	P2.00	P2.02	575.740	575.630	STRUCTURED WALL PE PIPE SN8
PIPE 1.01	375Ø	4.29	0.50%	P2.05	P1.01	575.419	575.392	RCP PIPE CLASS 4 RRJ
PIPE 1.03	525Ø	27.35	0.52%	P13.00	P1.03	575.269	575.120	RCP PIPE CLASS 3 RRJ
PIPE 1.04	525Ø	19.40	0.52%	P1.03	P1.04	575.120	575.015	RCP PIPE CLASS 3 RRJ
PIPE 1.05	525Ø	1.14	0.69%	P1.04	P1.05	575.015	575.000	RCP PIPE CLASS 3 RRJ
PIPE 1.06	525Ø	8.03	1.33%	P1.05	P1.06	575.000	574.880	RCP PIPE CLASS 3 RRJ
PIPE 1.07	600Ø	4.37	1.71%	P1.06	P1.07	574.880	574.790	RCP PIPE CLASS 3 RRJ
PIPE 2.03	300Ø	17.24	0.63%	P2.02	P2.03	575.630	575.515	RCP PIPE CLASS 4 RRJ
PIPE 2.04	300Ø	2.81	0.93%	P2.03	P2.04	575.515	575.480	RCP PIPE CLASS 3 RRJ
PIPE 2.05	375Ø	10.86	0.51%	P2.04	P2.05	575.480	575.419	RCP PIPE CLASS 4 RRJ
PIPE 3.01	225Ø	8.18	0.55%	P2.02	P3.00	575.630	575.580	STRUCTURED WALL PE PIPE SN8
PIPE 3.02	225Ø	21.69	0.51%	P3.00	P3.01	575.580	575.464	STRUCTURED WALL PE PIPE SN8
PIPE 3.03	375Ø	10.78	0.55%	P3.01	P3.02	575.464	575.400	RCP PIPE CLASS 3 RRJ
PIPE 3.04	375Ø	9.44	0.52%	P3.02	P3.03	575.400	575.346	RCP PIPE CLASS 3 RRJ
PIPE 3.05	375Ø	10.28	0.50%	P3.03	P3.04	575.346	575.290	RCP PIPE CLASS 3 RRJ
PIPE 3.06	375Ø	10.29	0.51%	P3.04	P3.05	575.290	575.232	RCP PIPE CLASS 3 RRJ
PIPE 3.07	375Ø	27.12	0.61%	P3.05	P3.06	575.232	575.060	RCP PIPE CLASS 3 RRJ
PIPE 3.08	375Ø	3.00	0.69%	P3.06	P3.07	575.060	575.030	RCP PIPE CLASS 3 RRJ
PIPE 4.01	225Ø	15.19	0.56%	P4.00	P4.01	575.640	575.550	STRUCTURED WALL PE PIPE SN8

PIPE SCHEDULE

PIPE NAME	PIPE DIA (mm)	LENGTH (m)	SLOPE (%)	U/S PIT	D/S PIT	U/S INV	D/S INV	PIPE MATERIAL
PIPE 4.02	225Ø	21.25	0.54%	P4.01	P3.04	575.550	575.430	STRUCTURED WALL PE PIPE SN8
PIPE 5.01	225Ø	6.28	1.72%	P5.00	P5.01	575.645	575.519	STRUCTURED WALL PE PIPE SN8
PIPE 5.02	225Ø	9.61	1.18%	P5.01	P5.02	575.519	575.395	STRUCTURED WALL PE PIPE SN8
PIPE 5.03	225Ø	21.24	0.74%	P5.02	P3.05	575.395	575.232	STRUCTURED WALL PE PIPE SN8
PIPE 6.01	225Ø	3.89	1.25%	P6.00	P6.01	575.550	575.490	STRUCTURED WALL PE PIPE SN8
PIPE 6.02	225Ø	3.41	1.50%	P6.01	P6.02	575.490	575.428	STRUCTURED WALL PE PIPE SN8
PIPE 6.03	225Ø	5.68	1.36%	P6.02	P6.03	575.428	575.340	STRUCTURED WALL PE PIPE SN8
PIPE 6.04	225Ø	24.10	2.50%	P6.03	P6.04	575.340	574.715	STRUCTURED WALL PE PIPE SN8
PIPE 7.01	225Ø	10.30	1.10%	P7.00	P7.01	575.680	575.560	STRUCTURED WALL PE PIPE SN8
PIPE 7.02	225Ø	7.07	1.02%	P7.01	P7.02	575.560	575.480	STRUCTURED WALL PE PIPE SN8
PIPE 7.03	225Ø	7.08	3.11%	P7.02	P7.03	575.480	575.230	STRUCTURED WALL PE PIPE SN8
PIPE 7.04	225Ø	9.14	4.33%	P7.03	P1.07	575.230	574.790	STRUCTURED WALL PE PIPE SN8
PIPE 8.01	225Ø	14.28	0.66%	P8.00	P8.01	575.380	575.280	STRUCTURED WALL PE PIPE SN8
PIPE 8.02	225Ø	5.40	6.04%	P8.01	P1.06	575.280	574.880	STRUCTURED WALL PE PIPE SN8
PIPE 9.01	225Ø	15.88	0.50%	P9.00	P9.01	575.747	575.664	STRUCTURED WALL PE PIPE SN8
PIPE 9.02	225Ø	10.24	0.51%	P9.01	P9.02	575.664	575.608	STRUCTURED WALL PE PIPE SN8
PIPE 9.03	225Ø	10.11	0.51%	P9.02	P9.03	575.608	575.552	STRUCTURED WALL PE PIPE SN8
PIPE 9.04	225Ø	8.97	0.51%	P9.03	P9.04	575.552	575.500	STRUCTURED WALL PE PIPE SN8
PIPE 9.05	225Ø	7.92	0.52%	P9.04	P1.03	575.500	575.452	STRUCTURED WALL PE PIPE SN8
PIPE 10.01	300Ø	6.65	0.90%	P10.00	P3.01	575.609	575.540	RCP PIPE CLASS 3 RRJ

PIPE SCHEDULE

PIPE NAME	PIPE DIA (mm)	LENGTH (m)	SLOPE (%)	U/S PIT	D/S PIT	U/S INV	D/S INV	PIPE MATERIAL
PIPE 11.01	225Ø	10.70	1.43%	P11.00	P5.01	575.683	575.519	STRUCTURED WALL PE PIPE SN8
PIPE 14.00	375Ø	1.51	7.90%	P12.00	P13.00	575.450	575.269	STRUCTURED WALL PE PIPE SN8
PIPE 15.00	225Ø	6.88	0.26%	P10.01	P2.02	575.650	575.630	STRUCTURED WALL PE PIPE SN8

NOTES:

1. REFER TO DRAWING PS208025-C000 FOR DRAWING LIST. REFER TO DRAWING PS208025-C001 FOR GENERAL NOTES AND REQUIREMENTS.
2. REFER TO DRAWING PS208025-C020 FOR STORMWATER NOTES AND LEGEND.

SERVICE CLASHES
CONTRACTOR TO REFER TO SERVICES DOCUMENTATION AND LIAISE WITH THE RELEVANT AUTHORITY TO MITIGATE ANY SERVICE CLASHES WITH THE PROPOSED WORKS.

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P4	31/01/2025	J.C	100% DOCUMENT READINESS	J.L	J.L
P3	08/11/2024	J.C	DOCUMENT READINESS (75%)	M.B	J.L
P2	02/10/2024	J.C	FINAL FSP ISSUE	J.L	J.L
P1	16/09/2024	J.C	DRAFT FSP ISSUE	J.L	J.L

DRAWING STATUS: **FOR APPROVAL**
NOT TO BE USED FOR CONSTRUCTION

wsp
http://www.wsp.com

CLIENT: ACT Government — CITY RENEWAL AUTHORITY

ARCHITECT: OCULUS

PROJECT: DICKSON SHOPS AND STREETSCAPE

TITLE: STORMWATER DRAINAGE SCHEDULES

SCALE @ A1:	CHECKED:	APPROVED:
1:###	I.Y	J.L
PROJECT NUMBER:	DRAWN:	DATE:
PS208025	J.P	10/06/2025
DRAWING No:		REV:
C075		P8

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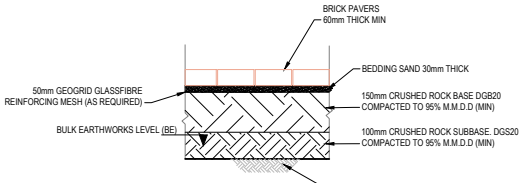
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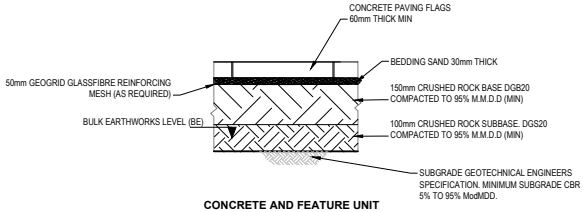
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PAVEMENT DETAIL NOTES:

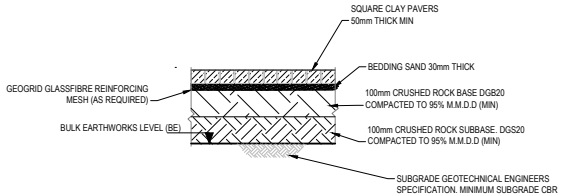
1. ALL PAVEMENT DETAILS ARE TO READ IN CONJUNCTION WITH THE LANDSCAPE CONSULTANTS PAVEMENT SCHEDULES AND SPECIFICATIONS.
2. THE CONTRACTOR IS TO REFER TO AND COMPLY WITH ADVICE AND RECOMMENDATIONS IN GEOTECHNICAL INVESTIGATION REPORT PREPARED BY FORTIFY GEOTECH DATED JANUARY 2025 (REF: **AP/C15916 Rev0**)
3. A GEOTECHNICAL ENGINEER IS TO BE ENGAGED BY THE CONTRACTOR TO INSPECT PREPARED SUBGRADES TO CONFIRM DESIGN CBR VALUES PRIOR TO PAVEMENT LAYING.
4. THE CONTRACTOR IS TO STRIP OFF UNSUITABLE MATERIAL, OR ANY WET OR WEAK SPOTS IDENTIFIED ON SITE, AND PROVIDE REPLACEMENT FILL COMPACTED IN LAYERS NOT THICKER THAN 150mm TO 95% ModMDD.



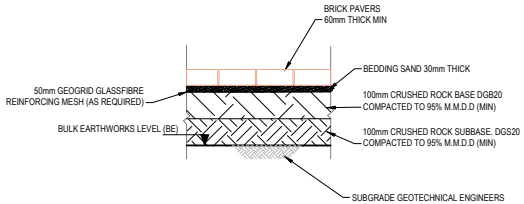
RECYCLED BRICK DETAIL (VEHICULAR) - PV02V
SCALE - NTS



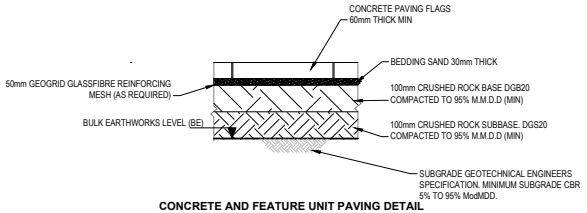
CONCRETE AND FEATURE UNIT PAVING DETAIL (VEHICULAR) - PV01V & PV04V
SCALE - NTS



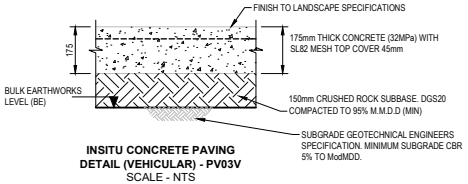
SQUARE CLAY PAVERS DETAIL (PEDESTRIAN ONLY)
SCALE - NTS



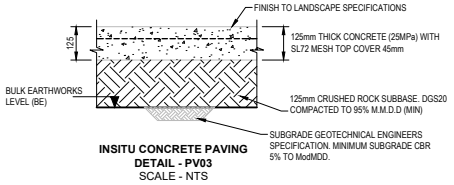
RECYCLED BRICK PAVING DETAIL (PEDESTRIAN) - PV02
SCALE - NTS



CONCRETE AND FEATURE UNIT PAVING DETAIL (PEDESTRIAN) - PV01 & PV04
SCALE - NTS

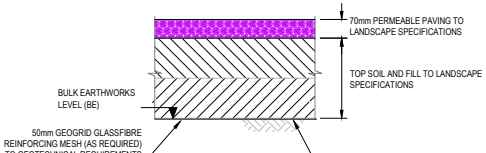


INSITU CONCRETE PAVING DETAIL (VEHICULAR) - PV03V
SCALE - NTS

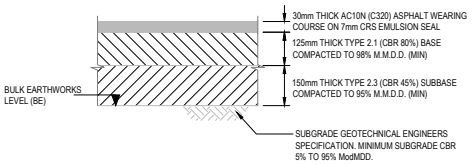


INSITU CONCRETE PAVING DETAIL - PV03
SCALE - NTS

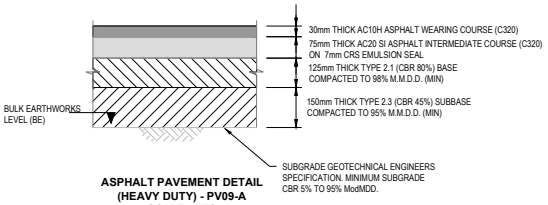
NOTES:
1. CONTROL JOINTS AT 3m CENTRES, 30mm DEEP x 6mm WIDE RECESS, SAW CUT OR CRACK INDUCER 25mm DEEP OR KEY JOINT.
2. EXPANSION JOINTS AT 18m MAX CENTRES, 10mm THICK, FULL DEPTH CLOSED CELL CROSS LINKED POLYRTHYLENE FOAM (85-150kg/m3)



PERMEABLE PAVING DETAIL (PEDESTRIAN ONLY) - PV06
SCALE - NTS



ASPHALT PAVEMENT DETAIL (LIGHT DUTY) - PV09-B
SCALE - NTS



ASPHALT PAVEMENT DETAIL (HEAVY DUTY) - PV09-A
SCALE - NTS

SERVICE CLASHES
CONTRACTOR TO REFER TO SERVICES DOCUMENTATION AND LIAISE WITH THE RELEVANT AUTHORITY TO MITIGATE ANY SERVICE CLASHES WITH THE PROPOSED WORKS.

WARNING
BEWARE OF UNDERGROUND SERVICES.
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REV	DATE	BY	DESCRIPTION	CHK	APP
P8	28/05/2025	J.C	DESIGN ACCEPTANCE ISSUE	M.B	J.L
P7	24/04/2025	J.C	100% DOCUMENT READINESS	MB	J.L
P6	08/04/2025	J.C	100% DOCUMENT READINESS	M.B	J.L
P5	07/02/2025	J.C	100% DOCUMENT READINESS	MB	J.L
P4	31/01/2025	J.C	100% DOCUMENT READINESS	J.L	J.L
P3	08/11/2024	J.C	DOCUMENT READINESS (75%)	M.B	J.L
P2	02/10/2024	J.C	FINAL FSP ISSUE	J.L	J.L
P1	16/09/2024	J.C	DRAFT FSP ISSUE	J.L	J.L

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CLIENT: ACT Government — CITY RENEWAL AUTHORITY

ARCHITECT: OCULUS

PROJECT: DICKSON SHOPS AND STREETSCAPE

TITLE: CIVIL WORKS DETAILS SHEET 1

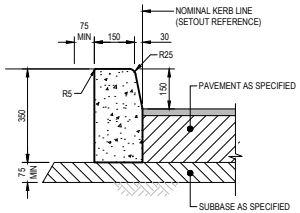
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N.T.S	I.Y	J.L
PROJECT NUMBER:	DRAWN:	DATE:
PS208025	J.P	10/06/2025
DRAWING No:		REV:
C101		P8

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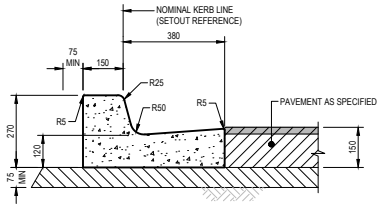
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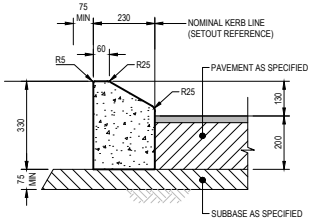
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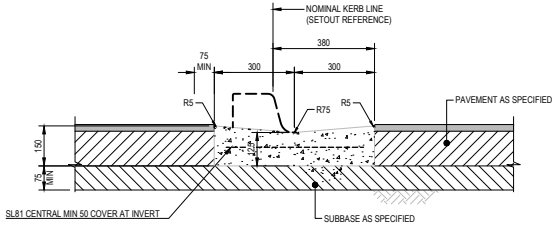
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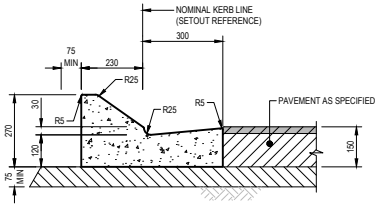
KERB & GUTTER (KG)
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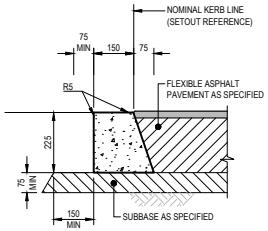
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OPEN CHANNEL INVERT - 600 WIDE (OCI)
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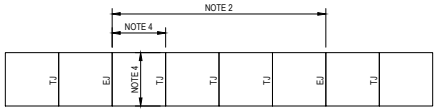


MOUNTABLE KERB & GUTTER (MKG)
SCALE 1:10

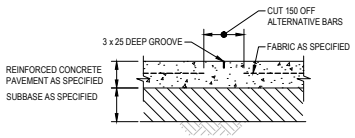


FLUSH KERB (FK)
SCALE 1:10

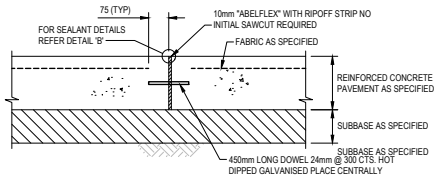
FOOTPATH NOTES:
1. SHRINKAGE CONTROL JOINTS (TJ) AT 4m MAX CENTRES, 30mm DEEP x 6mm WIDE RECESS, SAW CUT OR CRACK INDUCER 25mm DEEP.
2. EXPANSION JOINTS (EJ) AT 16m MAX CENTRES OR EVERY 4TH JOINT, 10mm THICK, FULL DEPTH CLOSED CELL CROSS LINKED POLYETHYLENE FOAM (85-150kg/m3)
3. PROVIDE CONSTRUCTION JOINT ALONG INTERFACE OF APPLIED FINISH AND PLAIN CONCRETE FINISH TYPES.
4. JOINT SPACING TO MATCH PANEL WIDTH, MAXIMUM 4m.
5. REFER TO LANDSCAPE DRAWINGS FOR FINISH SPECIFICATIONS.
6. THE SUBCONTRACTOR MUST PROVIDE THE FIRST CONCRETE FOOTPATH POUR AS A 'SAMPLE' TO BE INSPECTED BY THE CONTRACTOR AND DESIGN CONSULTANT AS A HOLD POINT.



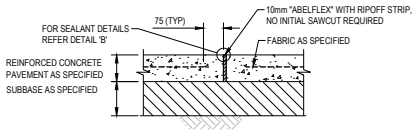
REINFORCED CONCRETE FOOTPATH
JOINT SPACINGS
SCALE NTS



REINFORCED CONCRETE
TOOLED CONTRACTION JOINT (TJ)
SCALE 1:10



REINFORCED CONCRETE
EXPANSION JOINT (EJ2)
SCALE 1:10



CONCRETE KERB AND FOOTWAY DETAIL NOTES:

1. ALL FOOTWAY, KERB, KERB AND GUTTER, AND CHANNEL INSTALLATION IS TO COMPLY WITH REQUIREMENTS OF MUNICIPAL INFRASTRUCTURE TECHNICAL SPECIFICATION 06 - CONCRETE KERBS FOOTPATHS & MINOR WORKS.
2. REFER TO DRAWINGS ACTSD-0101, ACTSD-0102, AND ACTSD-0103 FOR FULL DETAILS OF ALL KERB, KERB AND GUTTER, CHANNEL, AND VEHICLE CROSSINGS. THE CONTRACTOR IS TO COMPLY WITH REQUIREMENTS AS OUTLINED IN NOTES.

SERVICE CLASHES
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P1	16/09/2024	J.C	DRAFT FSP ISSUE	J.L	J.L

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CLIENT: ACT Government — CITY RENEWAL AUTHORITY

ARCHITECT: OCULUS

PROJECT: DICKSON SHOPS AND STREETSCAPE

TITLE: CIVIL WORKS DETAILS
SHEET 2

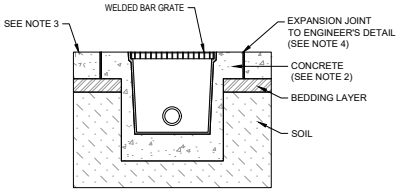
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N.T.S	I.Y	J.L
PROJECT NUMBER:	DRAWN:	DATE:
PS208025	J.P	10/06/2025
DRAWING No:		REV:
C102		P8

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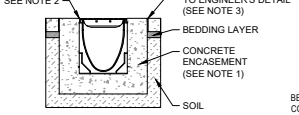
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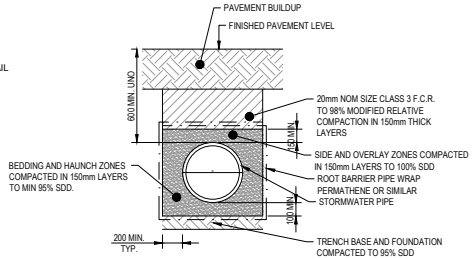
NOTES:

1. SPECIFIC SITE CONDITIONS MAY REQUIRE AN INCREASE IN THESE DIMENSIONS OR REINFORCEMENT. IT IS THE CUSTOMER'S RESPONSIBILITY TO ENSURE THE CONCRETE ENCASEMENT IS DESIGNED FOR THE APPLICATION. *ENGINEERING ADVICE MAY BE REQUIRED.*
2. A MINIMUM CONCRETE STRENGTH OF 25MPA IS RECOMMENDED. THE CONCRETE SHOULD BE VIBRATED TO ELIMINATE AIR POCKETS.
3. THE FINISHED LEVEL OF THE CONCRETE SURROUND MUST BE FLUSH WITH THE TOP OF THE PIT.
4. EXPANSION AND CRACK CONTROL JOINTS ARE RECOMMENDED TO PROTECT THE FRAME AND CONCRETE SURROUND. *ENGINEERING ADVICE MAY BE REQUIRED.*
5. REFER TO ACO'S LATEST INSTALLATION INSTRUCTIONS FOR COMPLETE DETAILS.

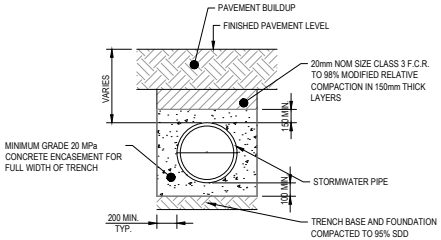


NOTES:

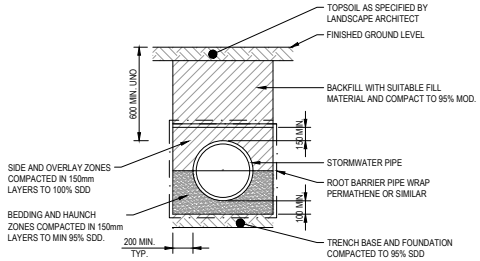
1. SPECIFIC SITE CONDITIONS MAY REQUIRE AN INCREASE IN THE CONCRETE ENCASEMENT DIMENSIONS AND/OR REINFORCEMENT. IT IS THE CUSTOMER'S RESPONSIBILITY TO ENSURE THE CONCRETE ENCASEMENT IS DESIGNED FOR THE APPLICATION. A MINIMUM CONCRETE STRENGTH OF 25MPA IS RECOMMENDED. THE CONCRETE SHOULD BE VIBRATED TO ELIMINATE AIR POCKETS. *ENGINEERING ADVICE MAY BE REQUIRED.*
2. THE FINISHED LEVEL OF THE CONCRETE ENCASEMENT MUST BE APPROXIMATELY 3MM ABOVE THE TOP OF THE CHANNEL EDGE.
3. EXPANSION AND CRACK CONTROL JOINTS ARE RECOMMENDED TO PROTECT THE CHANNEL AND THE CONCRETE ENCASEMENT. *ENGINEERING ADVICE MAY BE REQUIRED.*
4. FOR FURTHER DETAILS, REFER TO ACO'S DESIGN & SITE INSTALLATION FILES AT WWW.ACODRAIN.COM.AU/RESOURCES.HTML



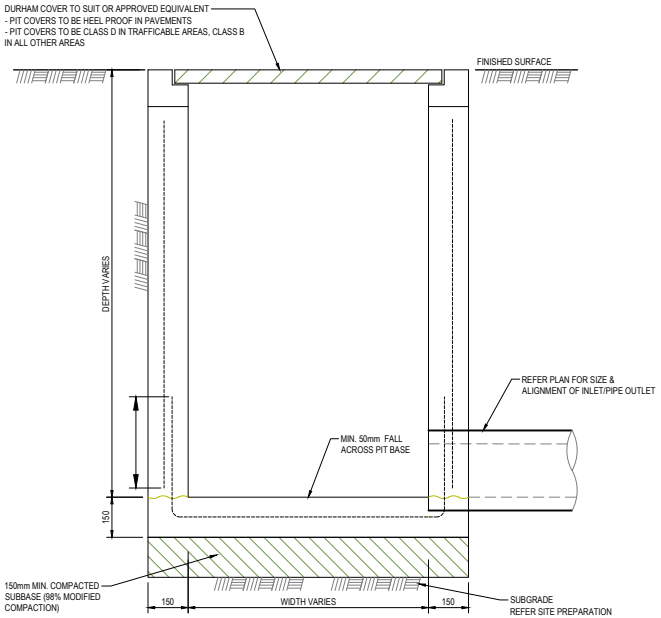
PIPE BEDDING DETAIL UNDER ROAD PAVEMENTS
SCALE 1:20



PIPE CONCRETE ENCASEMENT DETAIL UNDER PAVEMENTS
SCALE 1:20



PIPE BEDDING DETAIL LANDSCAPE AREAS
SCALE 1:20



CONCRETE JUNCTION / GRATED INLET PIT
SCALE 1:10

STORMWATER INSTALLATION NOTE

THE PIPE DESIGN FOR THIS SITE DOES NOT PERMIT ANY CONSTRUCTION LOADING. NO CONSTRUCTION VEHICLES AND PLANT SHALL BE PLACED OR TRAFFICKED OVER THE PIPE AS PART OF EARTHWORKS, PAVEMENT WORKS OR OTHER CONSTRUCTION ACTIVITIES.

SERVICE CLASHES

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WARNING

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P5	07/02/2025	J.C	100% DOCUMENT READINESS	MB	J.L
P4	31/01/2025	J.C	100% DOCUMENT READINESS	J.L	J.L
P3	08/11/2024	J.C	DOCUMENT READINESS (75%)	M.B	J.L
P2	02/10/2024	J.C	FINAL FSP ISSUE	J.L	J.L
P1	16/09/2024	J.C	DRAFT FSP ISSUE	J.L	J.L

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ARCHITECT: OCULUS

PROJECT: DICKSON SHOPS AND STREETSCAPE

TITLE: CIVIL WORKS DETAILS SHEET 3

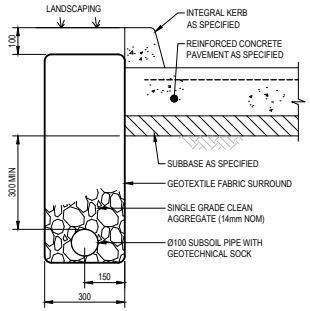
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N.T.S	I.Y	J.L
PROJECT NUMBER:	DRAWN:	DATE:
PS208025	J.P	6/06/2025
DRAWING No: C103		REV: P8

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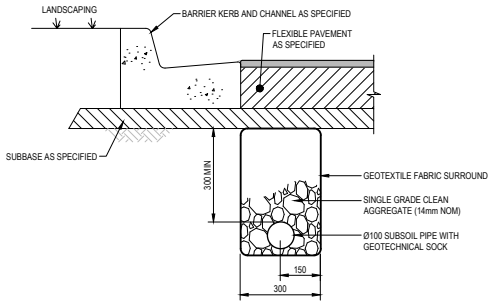
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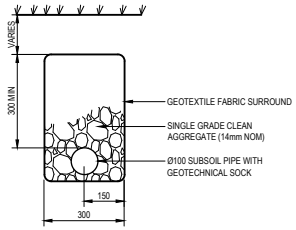
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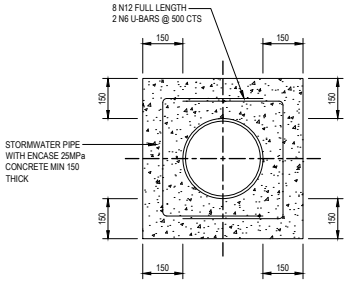
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SCALE 1:10



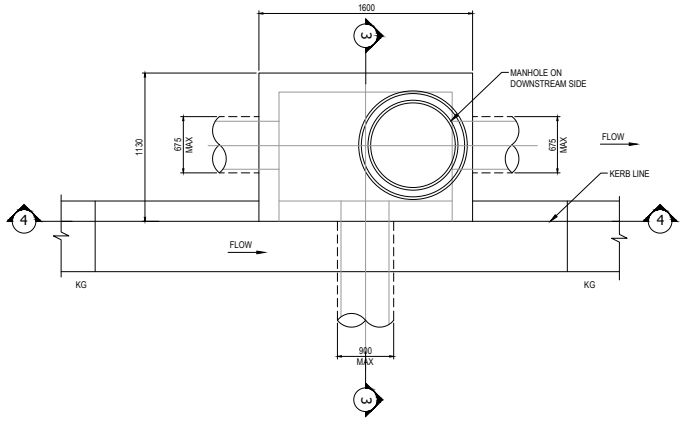
SUBSOIL DRAINAGE IN FLEXIBLE PAVEMENT
SCALE 1:10



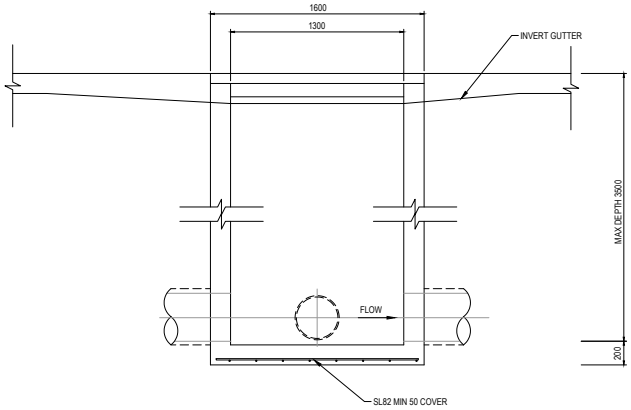
SUBSOIL DRAINAGE IN LANDSCAPE AREAS
SCALE 1:10



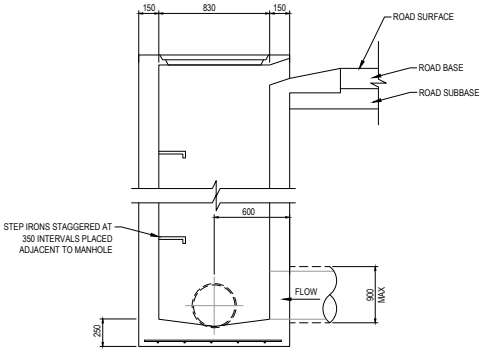
SW PIPE CONCRETE ENCASEMENT DETAIL
SCALE 1:10



SINGLE SUMP - TYPE R ON KERB AND GUTTER - PLAN
SCALE 1:20



SINGLE SUMP TYPE R - SECTION 4
SCALE 1:20



SINGLE SUMP TYPE R - SECTION 3
SCALE 1:20

SERVICE CLASHES
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PROJECT: DICKSON SHOPS AND STREETSCAPE

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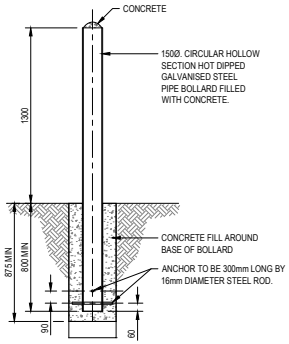
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N.T.S	I.Y	J.L
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PS208025	J.P	23/05/2025
DRAWING No:		REV:
C104		P8

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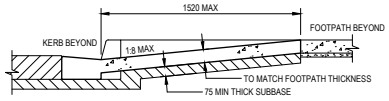
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Binder 3a,955

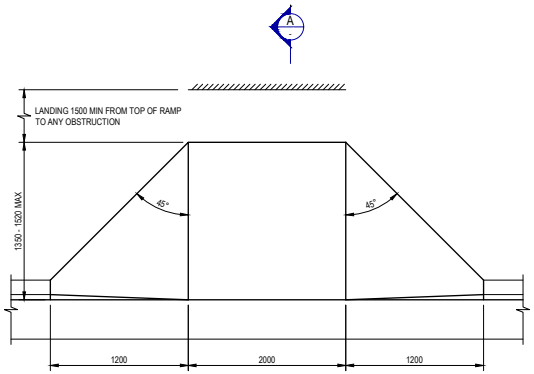
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BOLLARD DETAIL
SCALE 1:20



SECTION A
SCALE 1:20



NOTE:
1. REFER ARCHITECTURAL DWGS AND SPECIFICATION FOR KERB RAMP TACTILE INDICATORS AND SURFACE FINISHES.
2. IN RETROFIT, RAMP WING ANGLES MAY BE ADJUSTED TO SUIT EXISTING INFRASTRUCTURE SUCH AS MANHOLES, LANDSCAPING, SIGNAGE ETC.

KERB RAMP
SCALE : NTS

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CLIENT: ACT Government — CITY RENEWAL AUTHORITY

ARCHITECT: OCULUS

PROJECT: DICKSON SHOPS AND STREETSCAPE

TITLE: CIVIL WORKS DETAILS SHEET 5

SCALE @ A1:	CHECKED:	APPROVED:
N.T.S	I.Y	J.L
PROJECT NUMBER:	DRAWN:	DATE:
PS208025	J.P	10/06/2025
DRAWING No:		REV:
C105		P8

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DATE PLOTTED: 10/06/2025 7:22:30 PM BY: CONDAYANG, JAMES

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DICKSON SHOPS
ELECTRICAL SERVICES

PREPARED BY

wsp

CONSULTING ENGINEERS

DRAWING INDEX:

E000	ELECTRICAL SERVICES - COVER SHEET AND DRAWING INDEX
E001	ELECTRICAL SERVICES - LEGEND OF SYMBOLS
E010	ELECTRICAL SERVICES - SITE DEMOLITION LAYOUT
E100	ELECTRICAL SERVICES - PROPOSED LIGHTING LAYOUT
E110	ELECTRICAL SERVICES - LIGHTING DETAILS
E200	ELECTRICAL SERVICES - PROPOSED POWER AND LIGHTING RETICULATION LAYOUT
E300	ELECTRICAL SERVICES - SINGLE LINE DIAGRAM
E400	ELECTRICAL SERVICES - SPECIFICATION

REV	DATE	BY	DESCRIPTION	CHK	APD
P8	28.05.2025	CAD	DESIGN ACCEPTANCE ISSUE	HH	JL
P7	08.04.2025	CAD	100% DOCUMENT READINESS	HH	JL
P6	07.02.2025	CAD	100% DOCUMENT READINESS	HH	JL
P5	31.01.2025	CAD	100% DOCUMENT READINESS	HH	JL
P4	07.11.2024	CAD	DOCUMENT READINESS (75%)	HH	JL
P3	01.10.2024	CAD	FINAL FSP ISSUE	AL	JL
P2	10.09.2024	CAD	DRAFT FSP ISSUE	AL	JL

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CLIENT: ACT Government — CITY RENEWAL AUTHORITY

ARCHITECT: OCULUS

PROJECT: DICKSON SHOPS AND STREETSCAPE

TITLE: ELECTRICAL SERVICES COVER SHEET & DRAWING INDEX

SCALE @ A1:	CHECKED:	APPROVED:
N.T.S.	HH	JL
PROJECT No:	DRAWN:	DATE:
PS208025	CAD	JANUARY 2024

DRAWING No: E000 REV: P8

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File name:C:\USERS\HJUMBO\DESKTOP\E-VERS - WSP-FS-000001 - ORB FILES\PS208025_DICKSON SHOPS\PROJECT FILES\CAD\DWG\E000.DWG, printed on Tuesday, 27 May 2025 10:29:34 pm, by Hatem, Alfred

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LEGEND OF SYMBOLS:

LUMINAIRES

ALL LUMINAIRES TO BE SUPPLIED TO TCCS SPECIFICATIONS, INCLUDING DALI DRIVER AND NEMA SOCKET.
REFER TO LUMINAIRE SCHEDULE FOR SPECIFICATION DETAILS.

- POST TOP LUMINAIRE
- EXISTING LIGHT POLE
  E = TO REMAIN
  D = TO BE DELETED
- EXISTING POST TOP LUMINAIRE
  E = TO REMAIN
  D = TO BE DELETED
- SINGLE HEAD POST TOP WITH SQUARE HEAD LUMINAIRE
- DOUBLE HEAD POST TOP WITH SQUARE HEAD LUMINAIRES
- DOUBLE HEADED POST TOP LUMINAIRE
- SINGLE HEADEDPOST TOP LUMINAIRE
- PEDESTRIAN CROSSING FLOOD LIGHT
- SURFACE MOUNTED WALL LUMINAIRE
- CONTINUOUS STRIP LIGHTING
- SLCC — STREET LIGHTING CONTROL CUBICLE PROVIDED BY ELECTRICAL CONTRACTOR
- POE — POINT OF ENTRY CUBICLE PROVIDED BY ELECTRICAL CONTRACTOR
- POWER CUBICLE

POWER

- 663mm x 663mm ELECTRICAL PIT
- (S1) POWER BOX INTEGRATED INTO SEATING CONTAINING
  1 x 32A, 3-PHASE OUTLETS AND 1 x 10A, 1-PHASE OUTLETS AS CLIPSAL 56 SERIES OR EQUAL APPROVED
- (S2) POWER BOX INTEGRATED INTO SEATING CONTAINING
  2 x 10A, 1-PHASE OUTLETS AS CLIPSAL 56 SERIES OR EQUAL APPROVED
- (P) POWERPOINT - 1 x 15A IP65 ISOLATOR (LOCKABLE OR WITH KEY SWITCH)
- JUNCTION/TRANSITION BOX FROM 50mm HDUPVC CONDUITS TO METAL CONDUITS
- LV — LV — PRIMARY POWER CONDUIT ROUTE - 125mm HDUPVC CONDUITS
- SECONDARY POWER CONDUIT ROUTE FROM CLOSEST ELECTRICAL PIT TO END EQUIPMENT AND LIGHTING COLUMNS IN 1 RUNS OF 50mm HDUPVC CONDUITS
- 25mm GALVANISED STEELSURFACE MOUNTED CONDUITS TO SUPPLY WALL MOUNTED LUMINAIRE
- CIRCUITING LINE
- E — EXISTING INGROUND COMMUNICATIONS SERVICES TO BE RETAINED
- E — EXISTING INGROUND LV SERVICESTO BE REMOVED
- LV (R) — EXISTING INGROUND LV SERVICES TO BE RETAINED
- GAS — EXISTING INGROUND GAS SERVICES
- EVO — EVOENERGY SERVICES BY EVO ENERGY CONTRACTOR

SCHEMATIC

- SINGLE PHASE
- THREE PHASE
- JOINED
- TRANSFORMER
- HRC FUSE
  n FUSE RATING IN AMPS
  m HOLDER RATING IN AMPS
  FCC FAULT CURRENT LIMITER
- ON LOAD ISOLATOR
  n RATING IN AMPS
- CIRCUIT BREAKER
  n RATING IN AMPS
  m MAXIMUM RATING IN AMPS
  ACB AIR CIRCUIT BREAKER
- CIRCUIT BREAKER
  n RATING IN AMPS
  RCD RESIDUAL CURRENT DEVICE
- EM — SUPPLY AUTHORITY kWh METER
  MD INDICATES MAXIMUM DEMAND
- SHUNT SURGE DIVERTER
- TERMINAL BLOCK FOR 2 NOs. 4C x 16mm² CABLES (LOOP IN AND LOOP OUT) AND 2C x 2.5mm² TO RCBO SUPPLYING THE LUMINAIRE.
- CURRENT TRANSFORMER

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P8	28.05.2025	CAD	DESIGN ACCEPTANCE ISSUE	HH	JL
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P4	07.11.2024	CAD	DOCUMENT READINESS (70%)	HH	JL
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P2	10.09.2024	CAD	DRAFT FSP ISSUE	AL	JL

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CLIENT: ACT Government — CITY RENEWAL AUTHORITY

ARCHITECT: OCULUS

PROJECT: DICKSON SHOPS AND STREETSCAPE

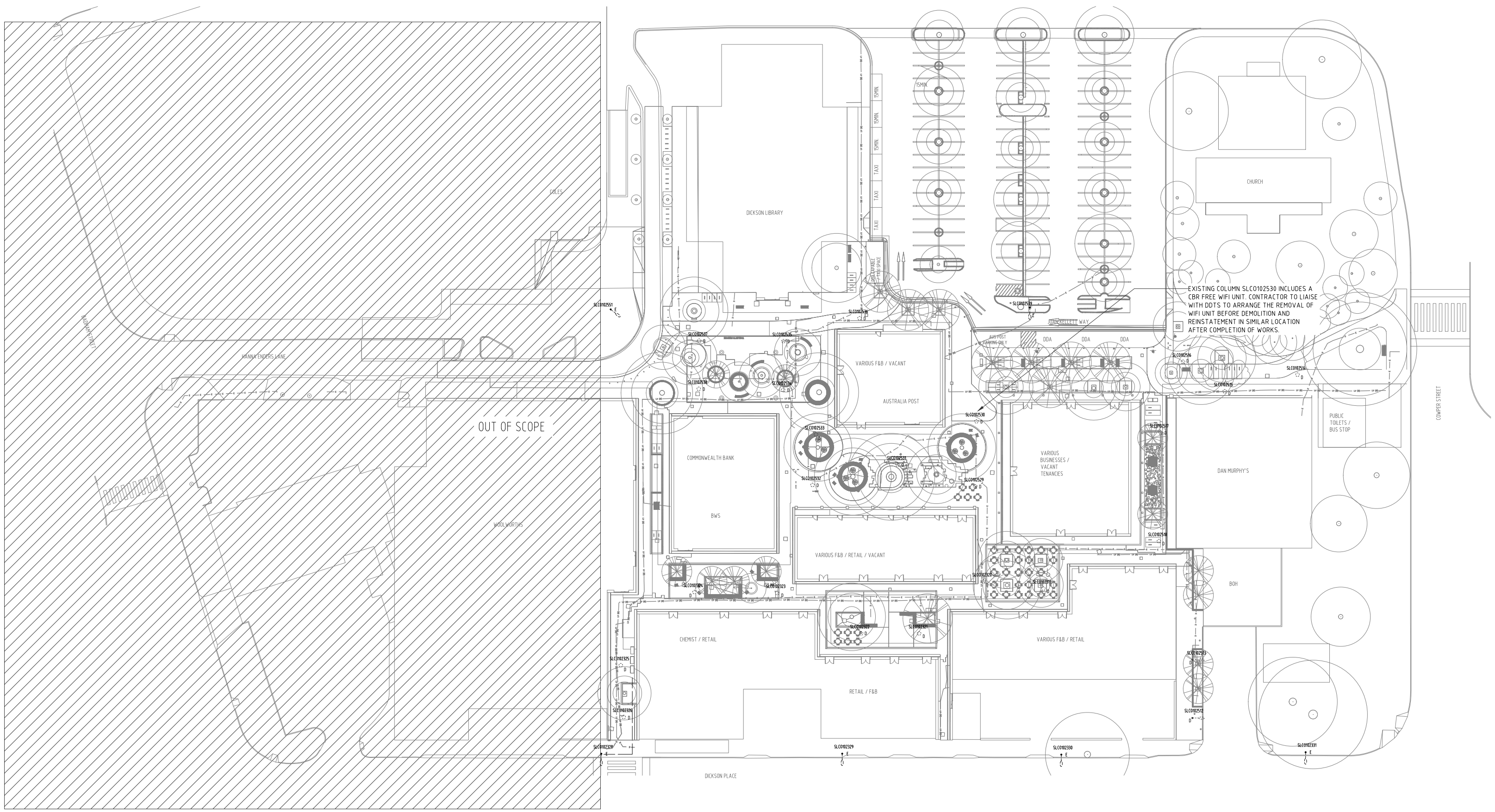
TITLE: ELECTRICAL SERVICES LEGENDS OF SYMBOLS

SCALE @ A1:	CHECKED:	APPROVED:
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PROJECT No: PS208025	DRAWN: CAD	DATE: JANUARY 2024
DRAWING No: E001		REV: P8

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NOTES:

1. REFER TO DRAWING E001 FOR GENERAL NOTES AND LEGEND.
2. EXISTING SERVICES DEPICTED IN THE LAYOUT IN BASED ON THE EXISTING CONDITION SURVEY PROVIDED AND ARE INDICATIVE ONLY. CONTRACTOR TO CONDUCT DETAIL SURVEY OF INGROUID SERVICES.
3. REDUDANT SERVICES SUCH AS CONDUITS ASSOCIATED WITH THE POLES BEING REMOVED HAS BEEN INDENTIFIED IN THE DRAWINGS BASED ON THE EXISTING CONDITION SURVEY. CONTRACTOR TO REMOVE ANY REDUNDANT IN-GROUND SERVICES AS PART OF THIS WORK AND COORDINATE THE PROPOSED NEW SERVICES WITH EXISTING IN GROUND SERVICES TO BE RETAINED.
4. DEMOLISHED COLUMNS, LAMPS AND LUMINAIRES TO BE RECYCLED AS APPROPRIATE. ANY HID LAMPS (METAL HALIDE, HIGH PRESSURE SODIUM ETC.) TO BE DISPOSED OF IN AN APPROPRIATE MANNER DUE TO THE PRESENCE OF MERCURY.
5. PUBLIC LIGHTING OUTSIDE THE SCOPE AREAS SHALL REMAIN FUNCTIONING AT ALL TIMES THROUGH THE CONSTRUCTION PERIOD. IF STAGING OF NEW WORKS REQUIRES THE LOSS OF POWER SUPPLY TO ANY AREAS, CONTRACTOR TO ALLOW FOR TEMPORARY LIGHTING FOR THE DURATION OF WORKS.

N

REV	DATE	BY	DESCRIPTION	CHK	APD
P7	28.05.2025	CAD	DESIGN ACCEPTANCE ISSUE	AL	JL
P6	08.04.2025	CAD	100% DOCUMENT READINESS	AL	JL
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P4	31.01.2025	CAD	100% DOCUMENT READINESS	AL	JL
P3	07.11.2024	CAD	DOCUMENT READINESS (75%)	AL	JL
P2	01.10.2024	CAD	FINAL FSP ISSUE	AL	JL
P1	10.09.2024	CAD	DRAFT FSP ISSUE	AL	JL

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CLIENT: ACT Government — CITY RENEWAL AUTHORITY

ARCHITECT: OCULUS

PROJECT: DICKSON SHOPS AND STREETSCAPE

TITLE: ELECTRICAL SERVICES
SITE DEMOLITION LAYOUT

SCALE @ A1:	CHECKED:	APPROVED:
1:500	AL	JL
PROJECT No: PS208025	DRAWN: CAD	DATE: JANUARY 2024

DRAWING No: E010 — REV: P7

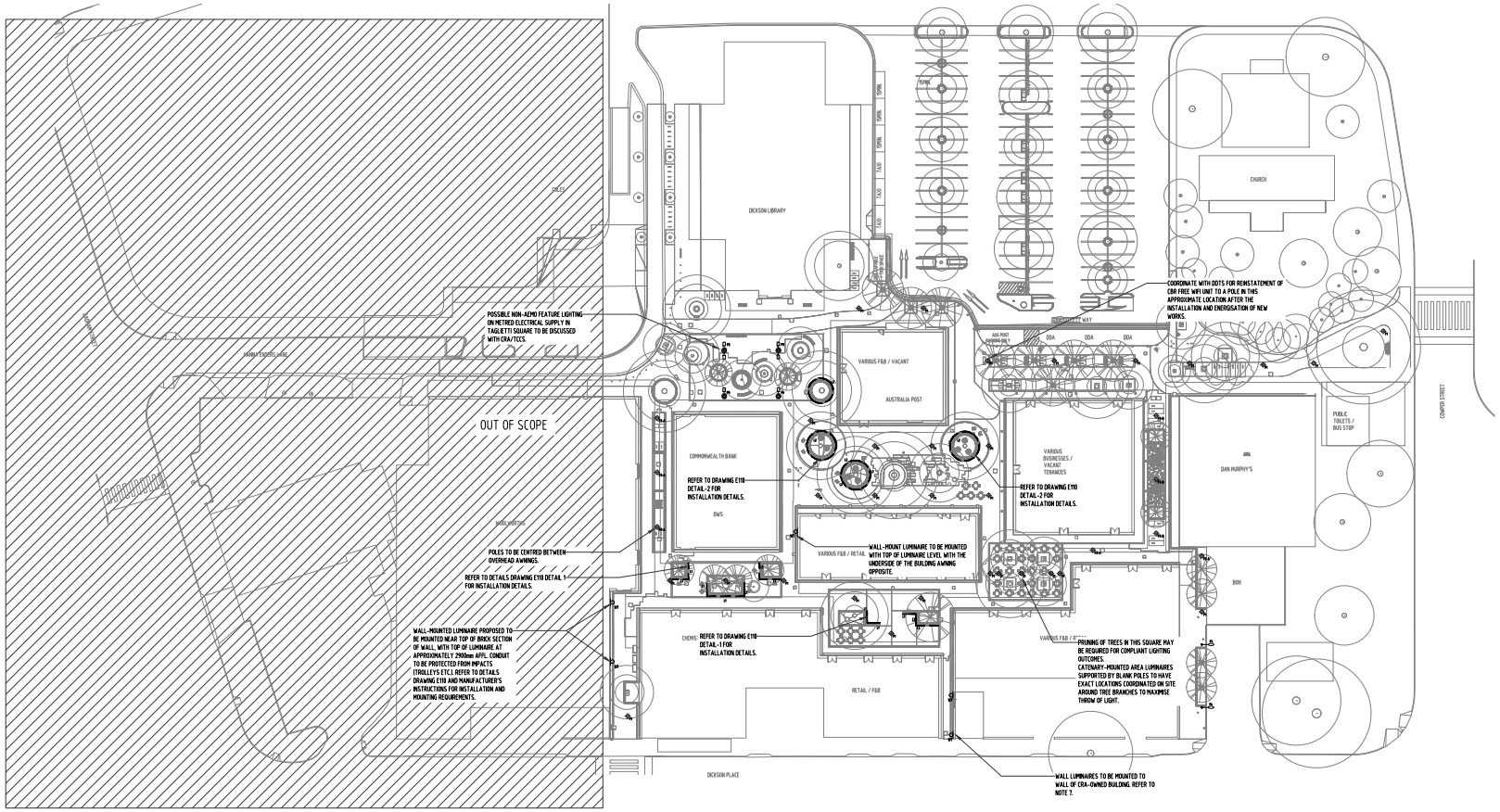
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NOTES:

1. REFER TO DRAWING E001 FOR GENERAL NOTES AND LEGEND AND LUMINAIRE SCHEDULE FOR DETAILS OF NOMINATED LUMINAIRE FITTINGS.
2. LIGHTING FOR PEDESTRIAN AREAS HAS BEEN DESIGNED TO CATEGORY PA2 FROM AS/NZS1158.3.1.
3. P1, P2 & W1 LUMINAIRES ARE LISTED ON THE AEMO LOAD TABLES FOR UNMETERED CONNECTION POINTS AND WILL BE SUPPLIED WITH A 7-PIN NEMA SOCKET, DALI DRIVER AND SMART NODE AS PER TCCS REQUIREMENTS.
4. DECORATIVE LANDSCAPE-INTEGRATED LIGHTING WILL BE CONNECTED TO THE UNMETERED STREET LIGHTING SUPPLY, WITH TCCS ARRANGING BILLING TO SUIT THE CONNECTED LOAD.
5. P2 POST TOPS ARE NON-STANDARD LOWER-HEIGHT POLES (P2-A APPROXIMATELY 2700mm TOTAL HEIGHT, P2-B APPROXIMATELY 3200mm) TO COORDINATE WITH THE LOW BUILDING AWNINGS (TYPICAL HEIGHT 2800mm) IN SPECIFIC LOCATIONS. NON-STANDARD POLE TYPES HAVE BEEN DISCUSSED AND AGREED WITH TCCS.
6. POST TOP LUMINAIRES TO HAVE LESS THAN 5% UPWARD WASTE LIGHT RATIO AS AGREED WITH TCCS.
7. DUE TO THE NARROW WALKWAY, WALL LUMINAIRES ARE PROPOSED IN LIEU OF POLES IN THE SOUTH-EASTERN ALLEYWAY. THE BUILDING ON THE SOUTH EAST END OF THE ALLEY IS A CRA-OWNED FACILITY, AND LUMINAIRES SHOULD THEREFORE BE MOUNTED ON THIS WALL. APPROXIMATE MOUNTING HEIGHT 3000mm AFL. THE PE CELL MOUNTED IN THE SMART NODE SHOULD BE ADJUSTED TO ENSURE LUMINAIRES TURN ON AT DUSK (E.G. SET THRESHOLD TO APPROXIMATELY 300 LUX).
8. FOR WALL-LUMINAIRES MOUNTED ON VARIOUS PRIVATE BUILDINGS (WOOLWORTHS, & 'VARIOUS F&B', CRA/TCCS TO NEGOTIATE WITH BUILDING OWNER FOR MOUNTING OF PUBLIC ASSETS TO BUILDING. CONTRACTOR TO ALLOW FOR SECURELY-FIXED VANDAL-RESISTANT METAL CONDUIT UP WALL TO LUMINAIRE.
9. FOR P7 CATENARY LIGHTING SUPPORT POLES, POLE MANUFACTURER AND CONTRACTOR TO VERIFY THE STRUCTURAL SUITABILITY OF THE POLE.



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P5	31.01.2025	CAD	100% DOCUMENT READINESS	HH	JL
P4	07.11.2024	CAD	DOCUMENT READINESS (70%)	HH	JL
P3	01.10.2024	CAD	FINAL FSP ISSUE	AL	JL
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CLIENT: ACT Government — CITY RENEWAL AUTHORITY

ARCHITECT: OCULUS

PROJECT: DICKSON SHOPS AND STREETSCAPE

TITLE: ELECTRICAL SERVICES PROPOSED LIGHTING LAYOUT

SCALE @ A1:	CHECKED:	APPROVED:
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PROJECT No:	DRAWN:	DATE:
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DRAWING No: E100 REV: P8

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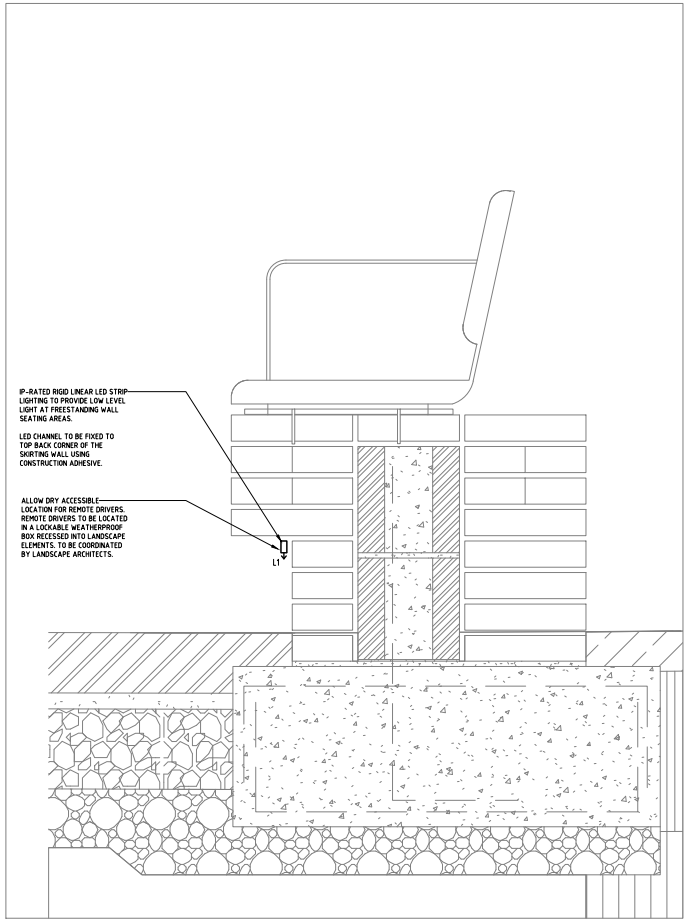
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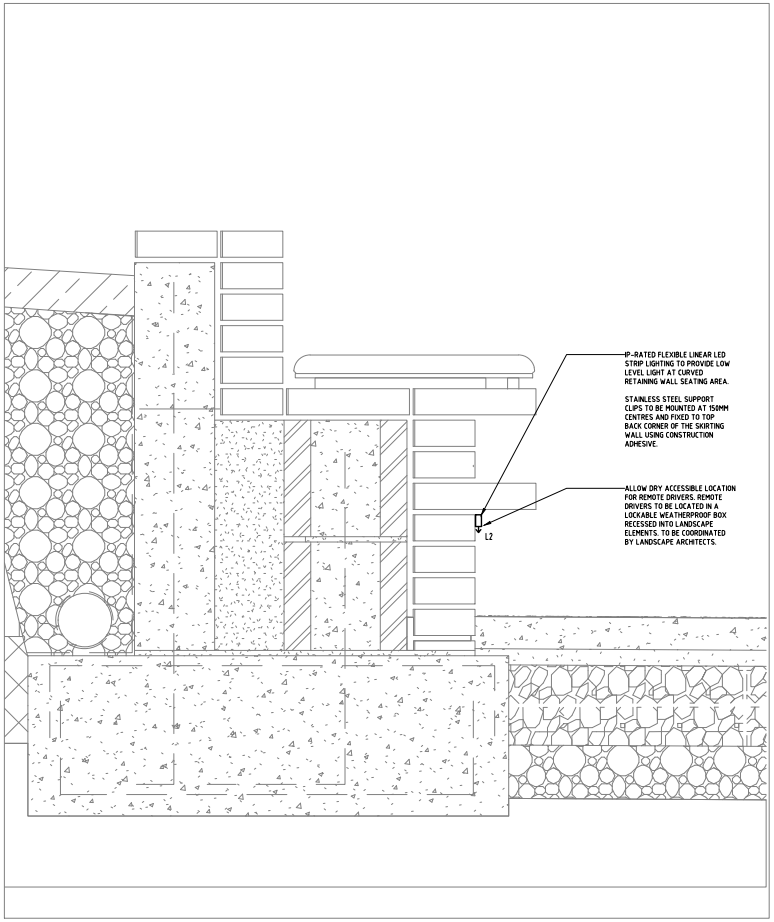
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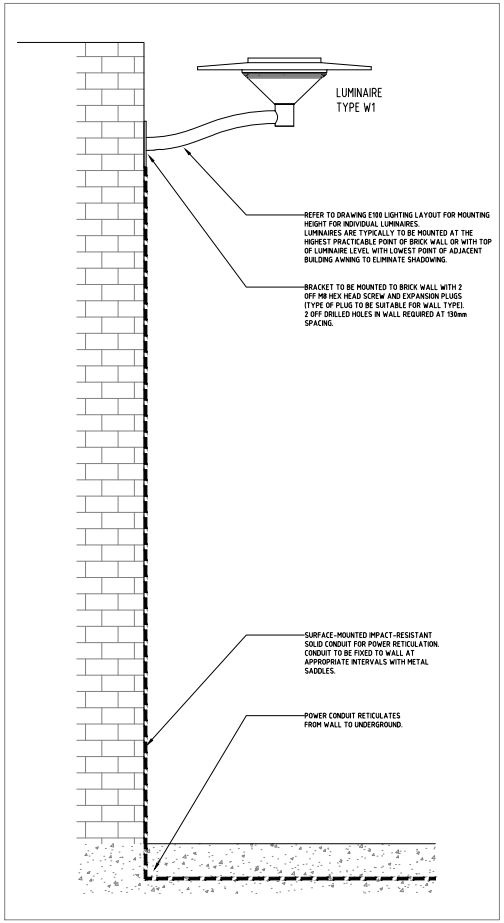
1. CABLE ROUTES TO LIGHTING INTEGRATED TO LANDSCAPE TO BE COORDINATED WITH ALL DISCIPLINES. WIRING AND CABLING TO BE PLANNED AHEAD OF TIME TO ENSURE ITS CONCEALED, NOT READILY ACCESSIBLE AND INTEGRATED TO LANDSCAPE STRUCTURES WHEREVER APPLICABLE.



DETAIL 1: RIGID LED STRIP LIGHTING TO LANDSCAPE SEATING
(REFER TO LANDSCAPE DRAWING L811)



DETAIL 2: FLEXIBLE LED STRIP LIGHTING TO CURVED LANDSCAPE SEATING
(REFER TO LANDSCAPE DRAWING L812)



DETAIL 3: WALL-MOUNTED LUMINAIRE SCHEMATIC DIAGRAM
NTS

REV	DATE	BY	DESCRIPTION	CHK	APD
P4	28.05.2025	CAD	DESIGN ACCEPTANCE ISSUE	HH	JL
P3	08.04.2025	CAD	100% DOCUMENT READINESS	AL	JL
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P1	31.01.2025	CAD	100% DOCUMENT READINESS	AL	JL

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ARCHITECT: OCULUS

PROJECT: DICKSON SHOPS AND STREETSCAPE

TITLE: ELECTRICAL SERVICES LIGHTING DETAILS

SCALE @ A1:	CHECKED:	APPROVED:
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PROJECT No:	DRAWN:	DATE:
PS208025	CAD	JANUARY 2024

DRAWING No: E110 REV: P4

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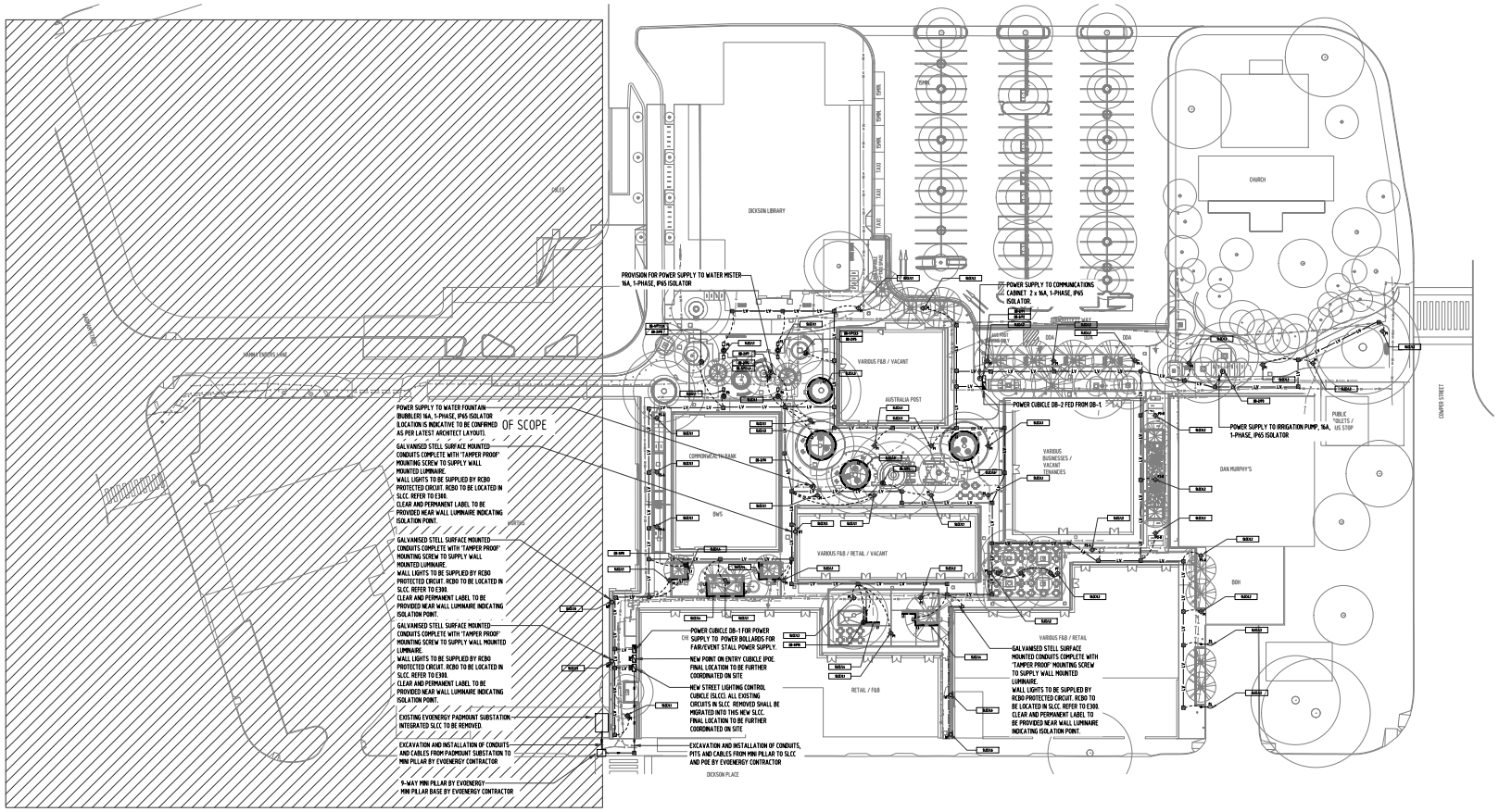
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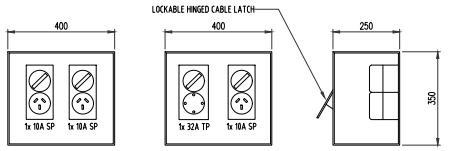
Binder 3a,961

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NOTES:

1. REFER TO DRAWING E001 FOR GENERAL NOTES AND LEGEND.
2. ALL WORK TO BE DONE IN ACCORDANCE WITH AS/NZS 3000.
3. DRAWING TO BE READ IN CONJUNCTION WITH ARCHITECTURAL AND OTHER SERVICES DRAWING.
4. ALL EXISTING SERVICES ARE INDICATIVE LOCATION ONLY. INFORMATION PROVIDED WITH THIS LAYOUT MUST BE CHECKED ON SITE FOR ACCURACY. ALLOW TO CONDUCT DETAILED SITE SURVEY OF UNDERGROUND SERVICES BEFORE ANY COMMENCEMENT OF WORK.
5. SECONDARY CONDUITS TO UNDER BENCH AND STRIP LIGHTING TO BE COORDINATED WITH FINAL REMOTE DRIVER LOCATION.
6. THREE PHASE SUPPLY TO BE PROVIDED FROM SLCC TO LIGHT POLES. THE POLE LIGHTS LOAD SHALL BE EVENLY DISTRIBUTED ACROSS THE THREE PHASES.
7. EXISTING SERVICES AS SHOWN IN LAYOUT IS AS PER SURVEY PROVIDED. CONTRACTOR TO PERFORM DETAIL INVESTIGATION OF EXISTING SITE CONDITION AND SERVICES TO VERIFY SERVICES ON SITE.
8. PITS AND CABLE RETICULATION HAVE BEEN COORDINATED WITH RESPECT TO SURVEY PROVIDED FOR EXISTING CONDITION AND ARE INDICATIVE ONLY. CONTRACTOR TO CONDUCT DETAIL SURVEY OF INGROUD SERVICES AND EXISTING TREES AND ROOT PROTECTION ZONE, REMOVE ANY REDUNDANT IN INGROUND SERVICES AS PART OF THIS WORK AND COORDINATE THE PROPOSED NEW SERVICES WITH EXISTING IN GROUND SERVICES TO BE RETAINED AND EXISTING TREES ROOT PROTECTION ZONE.





DETAIL A: POWER BOX INTEGRATED TO SEATING UPSTAND

SCALE: N.T.S.

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P10	28.05.2025	CAD	DESIGN ACCEPTANCE ISSUE	HH	JL
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P6	07.11.2024	CAD	DOCUMENT READINESS (75%)	HH	JL
P5	04.10.2024	CAD	FINAL FSP ISSUE	HH	JL
P4	01.10.2024	CAD	FINAL FSP ISSUE	AL	JL

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ARCHITECT: OCULUS

PROJECT: DICKSON SHOPS AND STREETSCAPE

TITLE: ELECTRICAL SERVICES PROPOSED POWER AND LIGHTING RETICULATION LAYOUT

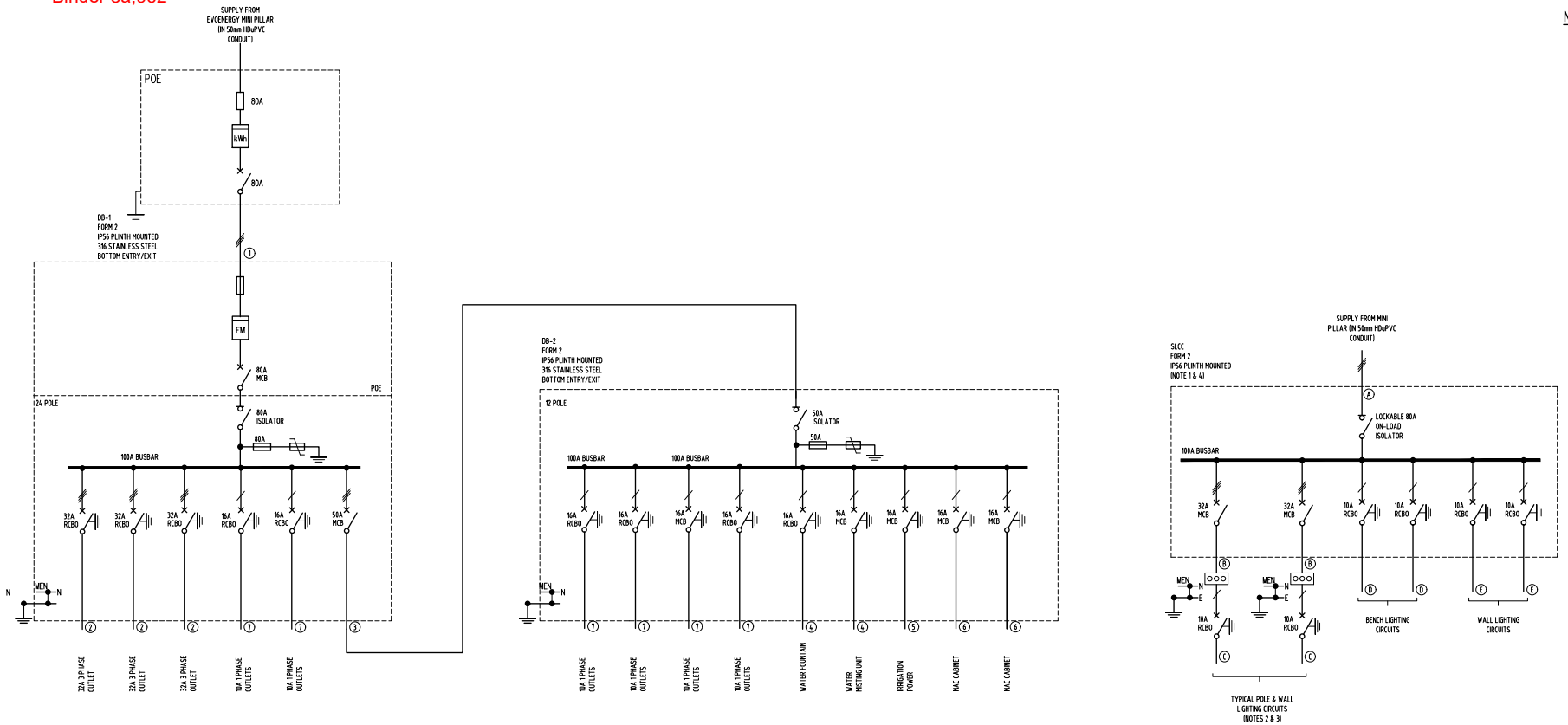
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DRAWING No: E200		REV: P10

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Binder 3a,962

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NOTES:

1. REFER DS12 TCCS STANDARD DRAWINGS. CONTRACTOR TO SEND DETAILED SLCC SHOP DRAWING TO TCCS FOR APPROVAL PRIOR TO MANUFACTURING.
2. MEN LINK TO EACH LIGHTING POLE CONNECTED TO POLE TO EARTH STAKE.
3. QUANTITIES OF NUMBER OF CIRCUITS TO BE CONFIRMED. REFER TO LAYOUT FOR SPECIFIC TYPE OF LUMINAIRE. PRIVATE METERED LIGHTING CONTROLLED BY PE SENSOR AND TIMER SWITCH.
4. THE SLCC INTEGRATED IN SUBSTATION TO BE REMOVED AND NEW SLCC REQUIRED TO BE INSTALLED. ALL EXISTING CIRCUITS SHALL BE MIGRATED OVER TO NEW SLCC.

CABLE SCHEDULE

	FROM	TO	CABLE SIZE
A	MINI PILLAR	SLCC	BY EVO ENERGY
B	SLCC	LIGHT POLE BASE	4C x 16mm^2 XLPE/PVC-Cu
C	LIGHT POLE BASE	LUMINAIRE	2C x 2.5mm^2 PVC/PVC-Cu+E
D	SLCC	BENCH LIGHTS	2C x 6mm^2 PVC/PVC-Cu+E
E	SLCC	WALL LIGHTS	2C x 6mm^2 PVC/PVC-Cu+E
	FROM	TO	
1	POE	DB-1	4C x 16mm^2 XLPE/PVC-Cu+E
2	DB-1	32A 3 PHASE OUTLET	4C x 16mm^2 XLPE/PVC-Cu+E
3	DB-1	DB-2	4C x 25mm^2 XLPE/PVC-Cu+E
4	DB-2	ISOLATOR	2C x 10mm^2 XLPE/PVC-Cu+E
5	DB-2	ISOLATOR	2C x 10mm^2 XLPE/PVC-Cu+E
6	DB-2	ISOLATOR	2C x 6mm^2 XLPE/PVC-Cu+E
7	DB-2/DB-1	10A 1 PHASE OUTLET	2C x 10mm^2 XLPE/PVC-Cu+E

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ARCHITECT: OCULUS

PROJECT: DICKSON SHOPS AND STREETSCAPE

TITLE: ELECTRICAL SERVICES SINGLE LINE DIAGRAM

SCALE @ A1:	CHECKED:	APPROVED:
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PROJECT No:	DRAWN:	DATE:
PS208025	CAD	JANUARY 2024

DRAWING No: E300 REV: P9

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File name:C:\USERS\AJUMBO\ADOWE\DRIVE - WSP\PS208025_DICKSON SHOPS\RESERVED\2025FTE\DWG, printed on Tuesday, 27 May 2025 11:11:44 am, by Marius, Alfred

Binder 3a,963

DO NOT SCALE

SPECIFICATIONS

GENERAL NOTES

THE SCOPE OF WORK COMPRISES THE SUPPLY, INSTALLATION, TESTING, COMMISSIONING, MAINTENANCE AND DEFECTS LIABILITY SERVICE, OF MATERIALS LABOUR AND EQUIPMENT FOR THE COMPLETE ELECTRICAL SERVICES INSTALLATION AS DETAILED ON DRAWINGS E000, E001, E010, E100, E110, E200, E300, AND E400.

BEFORE COMMENCING ANY CONSTRUCTION WORK, THE CONTRACTOR SHALL PERFORM A BEFORE-YOU-DIG-AUSTRALIA INVESTIGATION AND OBTAIN ALL NECESSARY CLEARANCES AND LOCATIONS OF EXISTING SERVICES.

THE WORK SHALL INCLUDE BUT WILL NOT BE RESTRICTED TO THE FOLLOWING PRINCIPAL ITEMS:

a. LIGHTING FITTINGS, CONNECTION TO PUBLIC LIGHTING SYSTEM

b. IN-GROUND CONDUITS, PITS, COLUMNS AND ASSOCIATED WORKS.

c. NEW STREET LIGHTING SUPPLY (24HR, UNSWITCHED, UNMETERED)

d. NEW STREET LIGHT CONTROL CUBICLES (24HR, UNSWITCHED, UNMETERED) TO TCCS STANDARDS

e. SITE TEST & REPORT FOR AS3000 COMPLIANCE.

f. CO-ORDINATE WITH HEAD CONTRACTOR FOR LAYING OF ELECTRICAL/LIGHTING CONDUITS IN SHARED TRENCHES EXCAVATED BY OTHERS.

g. PROVISION FOR TRENCHING AND BACKFILLING OF NON-SHARED TRENCHES ONLY.

h. SUPPLY AND INSTALLATION OF ALL LIGHT FITTINGS AND ELECTRICAL EQUIPMENTS.

i. SUPPLY AND INSTALLATION OF ELECTRICAL PILLAR, CONDUITS AND CABLES.

j. EARTHING OF ALL EQUIPMENT/ ELECTRICAL SERVICES IN ACCORDANCE WITH AS3000. SITE TEST AND REPORT FOR AS3000 COMPLIANCE.

k. PROVISION OF PITS, POLE FOUNDATIONS, CONDUITS, CONDUIT ROUTE MARKERS, CABLING AND CABLE PITS AS INDICATED ON THE ELECTRICAL SERVICES DRAWINGS.

l. PROVISION OF FOOTING DESIGN, INCLUDING INDEPENDENT STRUCTURAL ENGINEER'S CERTIFICATES FOR THE LIGHTING POLE FOUNDATIONS.

m. PROVISION OF STRUCTURAL DESIGN RELATING TO POLES SUPPORTING CATENARY LIGHTING CABLES.

n. COORDINATION WITH ALL RELEVANT AUTHORITIES AND OBTAIN APPROVALS FOR THE COMPLETE INSTALLATION.

o. COORDINATION WITH ALL OTHER IN-GROUND SERVICES FOR THE INSTALLATION . REFER TO SET-OUT DRAWINGS ISSUED BY THE CIVIL ENGINEER. ELECTRICAL CONDUITS ASSOCIATED WITH THIS WORKS SHALL HAVE A MINIMUM OF 300mm HORIZONTAL SEPARATION FROM THE EXISTING UNDERGROUND ELECTRICAL HV/LV CONDUITS.

p. PROVISION FOR SUBMITTING CERTIFICATE OF ELECTRICAL SAFETY AND LETTERS OF COMPLIANCE.

q. PROVISION OF PRODUCT DATA & AS-INSTALLED DRAWINGS IN BOTH HARD COPY AND ELECTRONIC FORMAT.

r. THE CONTRACTOR SHALL MAKE GOOD ALL BITUMEN, CONCRETE, FOOTPATH AND LANDSCAPING DISTURBED BY THE WORKS.

s. TESTING, COMMISSIONING, WARRANTY AND PREVENTATIVE MAINTENANCE (12 MONTHS) OF THE INSTALLED LIGHTING SYSTEM.

t. 'WORK AS EXECUTED' DRAWINGS AS PER TCCS & EVOENERGY REQUIREMENTS.

u. VERIFY NORTHING AND EASTING COORDINATES FOR ALL NEW COLUMNS. LIAISE WITH CIVIL CONTRACTOR. COORDINATES TO BE ADDED TO ASSET SCHEDULE AND INCLUDED ON WORK AS EXECUTED DRAWINGS. PAYMENT OF ASSET TAG FEES TO EVOENERGY.

v. SUBMISSION OF ALL FORMS AND PAYMENT OF ALL FEES TO EVOENERGY AND ALL OTHER RELEVANT AUTHORITIES.

w. LIAISON WITH EVOENERGY FOR ALL DISCONNECTIONS AND RECONNECTIONS OF POWER SUPPLIES REQUIRED AND PAYMENT OF ALL ASSOCIATED FEES.

x. COORDINATION OF INGROUND SERVICES WITH LANDSCAPE ARCHITECT FOR TREE ROOT PROTECTION ZONE

AS INSTALLED DOCUMENTATION

WORK AS EXECUTED DRAWINGS WILL BE PRODUCED AS PER TCCS AND EVOENERGY REQUIREMENTS. THESE SHALL INCLUDE, BUT NOT BE LIMITED TO:
- ALL RELEVANT DETAILS OF LUMINAIRES AND COLUMNS ON TCCS ASSET SCHEDULE
- DRAWINGS TO INCLUDE DETAILS OF ALL INSTALLED EQUIPMENT, INCLUDING CONDUIT TYPES AND SIZES, CABLE TYPES AND SIZES, ANY PITS, CABLE CONNECTION POINTS ETC.
- FOR ALL CONDUIT RUNS, INCLUDE DEPTHS & OFFSET FROM KERBS

PROJECT DETAILS

THIS PROJECT DETAILS THE WORKS ASSOCIATED WITH THE URBAN REALM UPGRADE OF THE DICKSON SHOPPING CENTRE. THIS SCOPE OF WORKS DESCRIBES THE ELECTRICAL AND STREET LIGHTING WORKS FOR PATHWAYS, OPEN AREAS AND ASSOCIATED SCOPE AREAS LOCATED WITHIN THE DICKSON SHOPPING CENTRE.

THE TENDERER SHALL THOROUGHLY INSPECT THE SITE AND MAKE THEMSELVES CONVERSANT WITH ALL ASPECTS OF THE SITE AND ALLOW IN THE TENDER PRICE FOR ALL ITEMS NECESSARY FOR THE SUCCESSFUL COMPLETION OF THE PROJECT. AUSTRALIAN STANDARDS AND CODES CURRENT AT THE DATE OF TENDERING AND ALSO REFERENCE CODES AND STANDARDS LISTED ARE APPLICABLE IN RESPECT OF ALL MATERIALS AND WORKMANSHP.

APPLICABLE REGULATIONS AND STANDARDS
THE WORK SHALL COMPLY WITH ALL RELEVANT REGULATIONS, PRIMARY STANDARDS AND DESIGN GUIDES, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
SHOULD CONFLICT ARISE BETWEEN THE REQUIREMENTS OF SPECIFICATION, DRAWINGS, MANDATORY REQUIREMENTS, STANDARDS INCLUDING STANDARDS AUSTRALIA CODES, THEN THE HIGHER STANDARD OR MOST STRINGENT REQUIREMENTS SHALL PREVAIL AND SHALL BE DEEMED TO HAVE BEEN INCLUDED IN THE CONTRACT. THE CONTRACT'S ORDER OF DOCUMENTS PRECEDENCE IS NOT INTENDED AND SHALL NOT BE APPLICABLE IN THIS CASE.

1. NCC- CURRENT VERSION.
2. LOCAL AUTHORITY REGULATIONS INCLUDING ACTEPSDD AND ANY FIRE AUTHORITY REQUIREMENTS.
3. UTILITY -ELECTRICITY NETWORK OPERATOR'S REQUIREMENTS.
4. WHS ACT 2011.
5. DEGREE OF ELECTRICAL PROTECTION (IP CODE)- TO AS 60529
6. DUCTED WIRING ENCLOSURES: AS/NZS 4296
7. ELECTRICAL DESIGN AND INSTALLATION: TO AS/NZS 3000.
8. ELECTRICAL CABLES AND SIZING: AS/NZS 5000 AND AS/NZS 3008.
9. ELECTRICAL INSTALLATIONS- CONSTRUCTION & DEMOLITION SITES: AS/NZS 3012.
10. ELECTROMAGNETIC COMPATIBILITY OF ELECTRICAL AND ELECTRONIC APPARATUS- TO AS/NZS 4251.1 AND AS/NZS 61000.6.1.
11. IP RATINGS: AS 60529
12. LABELLING AND IDENTIFICATION: AS 1345
13. LIGHTING SYSTEMS (EXTERNAL): LIGHTING HAS BEEN DESIGNED TO CATEGORY PP2 (PATHWAYS) AND PA2 (PUBLIC ACTIVITY AREAS) OF AS/NZ 1158.3.1-2020.
14. LV SWITCHBOARDS, SWITCHGEAR, CONTROL GEAR & ASSEMBLIES: AS/NZS 61439, AS/NZS 60947 4.1.
15. ALL SWITCHBOARD ENCLOSURES ARE TO BE DESIGNED TO AS/NZS 61439.1, AS/NZS 61439.3 AND AS/NZS 61439.5.
16. RATED SHORT-TIME WITHSTAND CURRENT OF SWITCHBOARDS GREATER THAN FAULT LEVEL OF INCOMING SUPPLY AND NOT LESS THAN SPECIFIED ON DRAWINGS.
17. SAFETY- WHS- AS 1470, AS 4801
18. SURGE PROTECTION- AS/NZS 1768
19. VERIFICATION GUIDELINES FOR ELECTRICAL INSTALLATIONS: AS/NZS 3017.
20. TCCS MUNICIPAL INFRASTRUCTURE STANDARDS, INCLUDING STANDARD POLE DRAWING ACTSD-4123.

OBLIGATIONS OF THE INSTALLER

IN WRITING THIS SCOPE OF WORK THE CLIENT EXPECTS AND RELIES UPON THE CONTRACTOR POSSESSING SPECIALIST TRADE EXPERTISE NECESSARY TO COMPLETE THE WORKS IN ACCORDANCE WITH THE DOCUMENTATION.

IN ADDITION, THE CONTRACTOR HAS THE FOLLOWING OBLIGATIONS:

a) TO RAISE IN GOOD FATE, ISSUES REQUIRING DESIGN INPUT OR CLARIFICATION FROM THE CONSULTING ENGINEER, PARTICULARLY IN RESPECT TO:-
   I. INTERPRETATION AND CO-ORDINATION OF THE SPECIFICATION OR DRAWINGS.
   II. PROBLEMS IN COMPLYING WITH THE SCOPE OF WORK.
   III. EXCLUSIONS FROM THE TENDER DOCUMENTS.

b) TO ALLOW THE DESIGN VERIFICATION COSTS OF THE CONSULTING ENGINEER WHEN DEPARTING FROM THE SCOPE OF WORK.

c) TO CERTIFY COMPLIANCE WITH CONTRACT DOCUMENTS, INCLUDING ALL VARIATION INSTRUCTIONS, AT PRACTICAL COMPLETION.

d) TO CERTIFY COMPLIANCE WITH AUTHORITY REQUIREMENTS.

e) TO PAY ALL FEES APPLICABLE TO THE WORKS.

f) TO OBTAIN ALL AUTHORITY PERMITS AND CERTIFICATES TO ALLOW THE PROGRESS OF THE WORK.

g) TO PROVIDE MANUFACTURER'S AND CONSTRUCTION DRAWINGS.

CONTRACTOR'S DESIGN RESPONSIBILITIES

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DETAILED DESIGN ACTIVITIES LISTED BELOW, IN ADDITION TO THOSE ACTIVITIES NORMALLY UNDERTAKEN THROUGH THE CUSTOM AND PRACTICE OF THE INDUSTRY.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT THE DETAILED DESIGN, WHICH CONTRACTOR UNDERTAKES, IS FULLY CO-ORDINATED AND COMPATIBLE WITH THE REMAINDER OF THE PROJECT DESIGN.

THE CONTRACTOR'S DESIGN OBLIGATIONS SHALL INCLUDE:

a) INTERFACE DETAILS WITH OTHER TRADES AND EXISTING SERVICES.

b) PHYSICAL COORDINATION OF INSTALLATION WITH OTHER TRADES.

c) CO-ORDINATION OF THE CONSTRUCTION OF THE INSTALLATION

d) EQUIPMENT AND LIGHT FITTINGS MOUNTING DETAILS AND FASTENERS.

e) CABLE INSTALLATION DETAILS AND DERATING FACTORS.

f) SETTINGS FOR PROTECTION EQUIPMENT, TIME DELAYS, TIME SWITCHES ETC.

g) CAPACITY, DESIGN AND SIZING OF CABLE SUPPORT AND CONDUIT SYSTEMS WHERE THESE ARE NOT SPECIFIED.

h) DETAILED DESIGN OF EARTHING AND BONDING REQUIREMENTS FOR ELECTRICAL ENGINEERING SERVICES.

i) STREET LIGHT POLE FOOTING DESIGN.

j) COORDINATION WITH EVOENERGY FOR POINT OF ENTRY

k) PRODUCTION OF SHOP DRAWINGS FOR SLDS AND DB SCHEMATICS

LIGHTING AND ELECTRICAL NOTES

a. CONTRACTOR SHALL VISIT THE SITE AND BECOME CONVERSANT WITH THE EXISTING SITE CONDITIONS AND SCOPE OF WORK REQUIRED UNDER THIS CONTRACT AND MAKE ALL THE REQUIRED ALLOWANCES TO COMPLETE THE WORKS.

b. FINAL LOCATIONS AND COLOUR SELECTION OF ALL FITTINGS, ACCESSORIES AND COMPONENTS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE LUMINAIRE SCHEDULE, DETAILS AND MANUFACTURER'S INSTRUCTIONS.

c. EQUIPMENT SHALL BE LOCATED WITH DUE ALLOWANCE FOR AIR VENTILATION AROUND THE EQUIPMENT.

d. ALL LUMINAIRES SHALL BE CLEANED AT PRACTICAL COMPLETION.

e. THE ELECTRICAL LOAD SHALL BE BALANCED ACROSS THE 3 PHASES (MAX. OF 10% IMBALANCE BETWEEN THE MOST LIGHTLY LOADED PHASE AND THE MOST HIGHLY LOADED PHASE) AT FULL LOAD OPERATION OF ALL APPLIANCES. THE POWER FACTOR OF THE INSTALLATION SHALL NOT BE LESS THAN 0.9 LAGGING.

f. THE ELECTRICAL CONTRACTOR SHALL PROGRESSIVELY REMOVE FROM THE SITE ALL RUBBISH, DEBRIS, MATERIAL CUTTINGS AND OTHER REDUNDANT MATERIALS, WHICH RESULT FROM THE WORKS OF THE CONTRACT. IN PARTICULAR REDUNDANT CABLING AND OBSOLETE EQUIPMENT SHALL BE DISCONNECTED AND REMOVED FROM THE SITE.

g. PROVIDE A CERTIFICATE OF ELECTRICAL SAFETY ON COMPLETION OF THE WORKS.

h. PROVIDE 7 WORK DAYS NOTICE OF ANY TESTS AND COMMISSIONING SO THAT THE CONSULTANT MAY WITNESS.

i. CONTRACTOR TO NOTIFY THE LIGHTING DESIGNER OF ANY DISCREPANCIES BETWEEN THE LIGHTING LAYOUTS AND SITE CONDITIONS.

j. ALLOW FOR A FINAL INSPECTION WITH ALL LIGHTING OPERATIONAL TO TAKE PLACE, AFTER SUNSET, ON SITE IN THE PRESENCE OF THE ELECTRICAL CONTRACTOR & LIGHTING CONSULTANT. THE ELECTRICAL CONTRACTOR SHALL PROVIDE THE NECESSARY MAN POWER AND EQUIPMENT TO PERMIT SUCH PROCEDURES.

k. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ASSET NUMBERS FROM TCCS, INCLUDING PAYMENT OF RELEVANT FEES. TCCS POLICY IS TO ISSUE ASSET NUMBERS AFTER FEES HAVE BEEN PAID. ALLOW SUFFICIENT TIME FOR THIS PROCESS TO BE UNDERTAKEN IN TIME FOR PRACTICAL COMPLETION.

LIGHTING AND LUMINAIRES

SUPPLY AND INSTALL NEW LUMINAIRES AND COLUMNS AS INDICATED ON THE DRAWINGS.

EACH NEW COLUMN SHALL HAVE A NEW RCBO INSTALLED IN THE BASE OF THE COLUMN. CABLE BETWEEN CIRCUIT BREAKER AND LUMINAIRE TO BE 2 CORE 2.5mm^2 + E TPS AS A MINIMUM. EACH COLUMN IS SUPPLIED FROM A STREETLIGHT CONTROL CUBICLE WITH SMART NODES CONTROLLING THE INDIVIDUAL LUMINAIRES. ACCESS PANELS TO CIRCUIT BREAKERS SHALL GENERALLY BE LOCATED ON THE PROPERTY SIDE OF COLUMNS TO ALLOW SAFE MAINTENANCE ACCESS, AND ON THE REAR OF COLUMNS ON ISLANDS.

PROVIDE INTEGRAL (7 PIN NEMA) SMART NODES TO TCCS STANDARDS FOR LUMINAIRES WHERE NOTED ON THE LUMINAIRE SCHEDULE.

ALL LUMINAIRES TO BE ELECTRICAL CLASS II.

LABELS INDICATE TCCS ASSET NUMBERS, WHICH SHALL BE OBTAINED FROM TCCS.

CONDUITS

CONDUITS TO BE 125mm DIA and 50mm DIA. ORANGE HEAVY DUTY PVC UNO AND SHALL BE PROVIDED, TRENCHED, LAID AND BACKFILLED BY THE CIVIL CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL CERTIFY THE INSTALLATION. CONDUITS SHALL BE MINIMUM SET BACK 300mm FROM THE LUMINAIRE LOCATION, UNLESS STATED OTHERWISE.

CONDUIT INSTALLATION TO BE AS PER AS3000. BURIAL DEPTHS SHALL BE MINIMUM 600mm (AS PER EVOENERGY SERVICE AND INSTALLATION RULES), UNLESS STATED OTHERWISE. OBSERVE 500mm HORIZONTAL CLEARANCE FROM RELOCATED WATER MAINS AND 275mm CLEARANCES AT CROSSOVERS. COORDINATE WITH THE CIVIL CONTRACTOR ON SITE. CLEARANCE OF LV CABLING FROM UNDERGROUND SERVICES MUST MEET MINIMUM REQUIREMENTS OF EVOENERGY DOCUMENT 3832-018 SEPARATION & COVER REQUIREMENTS FOR CABLES AND PLANTS.

POSITIONING OF EQUIPMENT

THE LAYOUT OF EQUIPMENT SHOWN ON THE DRAWINGS IS DIAGRAMMATIC ONLY, INDICATING DESIGN INTENT. CROSS REFERENCE WITH CIVIL DRAWINGS TO IDENTIFY LOCATIONS OF OTHER SERVICES AND SITE CONSTRAINTS, AND LANDSCAPE ARCHITECTURE DRAWINGS FOR FINAL SETOUT.

COLUMN SETBACKS FROM THE KERB TO THE EDGE OF THE COLUMN SHALL BE 1.7m. CLEARANCES FOR MEDIAN-MOUNTED COLUMNS WILL BE DICTATED BY THE MEDIAN WIDTH. STREETLIGHT ASSETS MUST HAVE A MINIMUM CLEARANCE OF 1.5m TO OTHER STRUCTURES. STREETLIGHTS INSTALLED ADJACENT TO PILLARS ARE TO BE MINIMUM 2.5m CENTRE TO CENTRE CLEAR.

CABLES

CABLE JOINTS SHALL ONLY BE MADE AT COLUMNS, WITH PARALLEL CONDUITS RETICULATED TO ROAD-CROSSOVER LOCATIONS. BALANCE THE LOAD ACROSS THE THREE PHASES.

NEW CIRCUITS TO LIGHTING POLES SHALL BE 4 CORE 16mm2 MULTI-STRAND COPPER, XLPE INSULATED, PVC SHEATHED. WITH NO EARTH.

PROVIDE 16mm2 NEUTRAL TO EARTH STUD BOND AT EACH COLUMN AND PROVIDE EARTHING AT EACH COLUMN AS PER EVOENERGY STANDARDS.

TESTING, COMMISSIONING AND MAINTENANCE

THE INSTALLATION SHALL BE TESTED TO THE SATISFACTION OF THE RELEVANT AUTHORITIES PRIOR TO THE ACCEPTANCE OF THE INSTALLATION AND THE COMMENCEMENT OF THE DEFECTS LIABILITY PERIOD, WHICH IS 12 MONTHS.

THE TESTS SHALL COMPRISE A THOROUGH INSPECTION OF THE ENTIRE INSTALLATION AND THE OPERATIONAL AND PERFORMANCE TEST TO CONFIRM COMPLIANCE WITH THE SPECIFICATION AND THE AUSTRALIAN STANDARDS.

CARRY OUT ALL COMMISSIONING TESTS NECESSARY TO PUT THE SYSTEMS INTO COMMERCIAL USE AND TO APPROVAL BEFORE PRACTICAL COMPLETION IS GRANTED.

A FORMAL LETTER SHALL BE PROVIDED TO THE PRINCIPAL DETAILING THE TESTING AND COMMISSIONING IS COMPLETE TO ENABLE PRACTICAL COMPLETION TO BE GRANTED.

COLUMN INSTALLATION

ALL COLUMNS SHALL BE MOUNTED FOR TRUE VERTICAL ALIGNMENT. MOVEMENT DUE TO THE WEIGHT OF THE OUTREACH ARM AND THE LUMINAIRE SHALL BE FULLY CONSIDERED IN THE COLUMN INSTALLATION TO ENSURE ADEQUATE ALIGNMENT.

WHERE EXISTING BASE-MOUNTED COLUMNS ARE RELOCATED, REMOVE EXISTING POLE AND PROVIDE NEW POLE IN THE NEW LOCATION. RELOCATED BASE-MOUNTED COLUMNS SHALL HAVE NON-SHRINK GROUT INSTALLED BETWEEN THE MOUNTING PLATE AND THE POLE SUBSEQUENT TO LEVELING.

NEW COLUMNS ARE GENERALLY DIRECT BURIED, UNLESS STATE OTHERWISE. DIRECT BURIED COLUMNS SHALL BE ALIGNED IN THE HOLE PRIOR TO INSTALLATION.

STREET LIGHTING CONTROL CUBICLES

PROVIDE STREET LIGHT CONTROL CUBICLES TO TCCS REQUIREMENTS. STREET LIGHT CONTROL CUBICLES SHALL INCLUDE STANDARD CIRCUIT PROTECTION EQUIPMENT. THE NEW SUPPLIES SHALL BE PERMANENTLY ON / UNSWITCHED. PROVIDE 2 SETS OF KEYS FOR THE CUBICLES. DECORATIVE LIGHTING CIRCUITS SHALL BE FROM A METRED SUPPLY IN THE SLCC, AND SHALL BE CONTROLLED FROM THE SLCC BY A COMBINATION PE CELL AND TIMER OR NEMA SMART NODE (TBC).

PROVIDE SUITABLE CONDUITING FOR THE NEW CUBICLE.

PROVIDE A PLINTH FOR THE CONTROL CABINET TO TCCS STANDARDS.

PROVIDE NEW MINIPILLARS TO EVOENERGY REQUIREMENTS, AND CABLING FROM THE MINIPILLARS TO THE CONTROL CUBICLES. EVOENERGY SHALL CONNECT TO THE LINE SIDE OF THE CONTROL CUBICLE.

CONNECTION APPROVAL PROCESS

'REQUEST FOR ISOLATION' SMART FORM MUST BE LODGED AND ISOLATION PROVIDED BY TCCS STREETLIGHT OFFICER PRIOR TO ANY WORKS OCCURING ON THE TCCS STREETLIGHTING NETWORK.

PROVIDE WORKS-AS-EXECUTED DRAWINGS (WAE) TO TCCS STANDARDS IN ELECTRONIC AUTOCAD, PDF AND HARD COPY AND ISSUE TO TCCS.

ONCE TCCS APPROVAL IS RECEIVED, EVOENERGY WILL PROCESS A CONNECTION APPROVAL. ALLOW FOR EVOENERGY CHARGES RELATING TO THE CONNECTION AND ENERGISATION.

TCCS REFERENCE DRAWINGS

THE SCOPE OF WORKS SHALL BE REFERENCED AGAINST THE FOLLOWING TCCS DRAWINGS. THE LIST INCLUDES MOST OF THE SCOPE OF WORKS BUT IS NOT EXHAUSTIVE, AND THE CONTRACTOR IS ADVISED TO SURVEY THE COMPLETE DS 12 SET WITH TENDER SUBMISSION:

DS12-01-06 - LINK PANEL FOR INTEGRAL LUMINAIRES ON ENERGY ABSORBING COLUMNS
DS12-01-20 - MEN EARTHING OF STREETLIGHT COLUMNS
DS12-01-22 - STREET LIGHTING 3PH NEUTRAL SCREEN STRAIGHT THROUGH JOINT
DS12-01-23 - STREETLIGHT COLUMN IDENTIFICATION PLATE
DS12-01-24 - PE CELL ACTIVATION TIME GRAPH
DS12-02-03 - INDICATIVE FOOTING DETAILS FOR OCTAGONAL COLUMNS
DS12-03-08 - 10.5M IMPACT ABSORBING COLUMN BASE PLATE MOUNTED
DS12-03-09 - 10.5M IMPACT ABSORBING COLUMN IN GROUND MOUNTED
DS12-04-15 - VPACTOR W4.5D DUAL 4.5M OUTREACH
DS12-04-16 - BPACTOR W4.5S SINGLE 4.5M OUTREACH
DS12-01-16 - STREETLIGHT CONTROL CUBICLE
DS12-01-01 - BLANK PANELS FOR STREET LIGHT COLUMNS
DS12-01-17 - STREET LIGHTING CONTROL CUBICLE ACTEWAGL SERVICE CONNECTION ARRANGEMENT

PEDESTRIAN CROSSING FLOODS

WHERE DOCUMENTED, PEDESTRIAN CROSSING FLOODS SHALL BE PROVIDED COMPLETE WITH INTEGRAL NEMA SMART NODES PER THE TCCS STANDARD REQUIREMENTS.

THE FLOODLIGHT FITTING SHALL BE MOUNTED TO THE OUTREACH ARM AND CABLED OFF THE SAME CIRCUIT BREAKER IN THE COLUMN. ALLOW FOR FLEXIBLE ARMOURED CONNECTION CABLES AND IP68 RATED TERMINATIONS TO THE MOUNTING BOX.

TILT ANGLE SHALL BE 45 DEGREES, AND ORIENTATION ANGLE SET TO ILLUMINATE THE LEFT-HAND SIDE OF THE CROSSING FOR APPROACHING TRAFFIC U.N.O.

REV	DATE	BY	DESCRIPTION	CHK	APD
P8	28.05.2025	CAD	DESIGN ACCEPTANCE ISSUE	HH	JL
P7	08.04.2025	CAD	100% DOCUMENT READINESS	HH	JL
P6	07.02.2025	CAD	100% DOCUMENT READINESS	HH	JL
P5	31.01.2025	CAD	100% DOCUMENT READINESS	HH	JL
P4	07.11.2024	CAD	DOCUMENT READINESS (75%)	HH	JL
P3	01.10.2024	CAD	FINAL FSP ISSUE	AL	JL
P2	10.09.2024	CAD	DRAFT FSP ISSUE	AL	JL

DRAWING STATUS: FOR APPROVAL (NOT TO BE USED FOR CONSTRUCTION)

REFERENCE COORDINATION DRAWINGS

DESCRIPTION	DRAWING NO.	REV	CHK

wsp
Level 2, 121 Marcus Clarke Street, PO Box 1551, ACT 2601, Australia
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www.wsp.com

CLIENT: ACT Government — CITY RENEWAL AUTHORITY

ARCHITECT: OCULUS

PROJECT: DICKSON SHOPS AND STREETSCAPE

TITLE: ELECTRICAL SERVICES SPECIFICATION

SCALE @ A1:	CHECKED:	APPROVED:
NTS	AL	JL
PROJECT No:	DRAWN:	DATE:
PS208025	CAD	JANUARY 2024

DRAWING No.: E400 — REV: P8

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Binder 3a,964

DICKSON SHOPS

STRUCTURES

PREPARED BY

CONSULTING ENGINEERS

DRAWING INDEX:

ST_01-000	FACE SHEET AND DRAWING INDEX
ST_01-001	GENERAL NOTES - SHEET 1
ST_01-002	GENERAL NOTES - SHEET 2
ST_01-010	TYPICAL STEELWORK DETAILS
ST_01-100	LANDSCAPE GENERAL ARRANGEMENT PLAN
ST_01-101	TIMBER DECK PLANS, SECTIONS AND DETAILS - SHEET 1
ST_01-102	TIMBER DECK PLANS, SECTIONS AND DETAILS - SHEET 2
ST_01-103	TIMBER DECK PLANS, SECTIONS AND DETAILS - SHEET 3
ST_01-104	TIMBER DECK PLANS, SECTIONS AND DETAILS - SHEET 4
ST_01-110	TYPICAL MULTIPOLE STREETLIGHT DETAILS - SHEET 1
ST_01-111	TYPICAL MULTIPOLE STREETLIGHT DETAILS (ALTERNATIVE) - SHEET 2
ST_01-120	TYPICAL LANDSCAPE DETAILS - SHEET 1
ST_01-121	TYPICAL LANDSCAPE DETAILS - SHEET 2

REV	DATE	BY	DESCRIPTION	CHK	APP
P7	09.06.2025	J.G.	TCCS DESIGN ACCEPTANCE	A.S./A.T.	A.T.
P6	24.04.2025	J.G.	100% DOCUMENT READINESS	A.S./A.T.	A.T.
P5	08.04.2025	J.G.	100% DOCUMENT READINESS	A.S./A.T.	A.T.
P4	31.01.2025	J.G./J.M.	DOCUMENT READINESS - 100%	A.S./A.T.	A.T.
P3	07.11.2024	J.G.	DOCUMENT READINESS 75%	A.T.	A.T.
P2	02.10.2024	J.G.	FINAL SKETCH PLAN	A.T.	A.T.
P1	10.09.2024	J.G.	ISSUED FOR 50% DRAFT COORDINATION	A.T.	A.T.

DRAWING STATUS: FOR APPROVAL

Level 2, 121 Marcus Clarke street, PO Box 1551, ACT 2601, Australia
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CLIENT: ACT CITY RENEWAL AUTHORITY

ARCHITECT: OCULUS

PROJECT: DICKSON SHOPS AND STREETSCAPE

TITLE: STRUCTURES
FACE SHEET AND DRAWING INDEX

SCALE @ A1:	CHECKED:	APPROVED:
N.T.S.	B.A. / A.S.	A.T.
PROJECT NUMBER:	DRAWN:	DATE:
PS208025	J.G. / J.M.	SEPT. 2024

DRAWING No: ST_01-000 REV: P7

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DRAWING CREATED IN REVIT.

Binder 3a:965

DO NOT SCALE

GENERAL NOTES

1 THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE CONTRACT DOCUMENTS (INCLUDING ALL ARCHITECTURAL AND OTHER CONSULTANTS' DRAWINGS AND SPECIFICATIONS) AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT.

2 ANY DISCREPANCY ON THE DRAWINGS OR BETWEEN THE DRAWINGS AND/OR THE SPECIFICATION AND/OR THE SPECIFIED AUSTRALIAN STANDARD SHALL BE REFERRED TO WSP AND A WRITTEN INSTRUCTION RECEIVED PRIOR TO PROCEEDING WITH THE WORK. DURING TENDERING THE TENDERER SHALL ASSUME THE LARGER/GREATER CRITERIA IN TERMS OF COST IN THE ABSENCE OF OTHER INSTRUCTIONS.

3 CONTRACTOR AND SUB-TRADES SHALL EXERCISE GOOD INDUSTRY PRACTICE AND COMPLY WITH THE NCC AND AUSTRALIAN STANDARDS WHEN CARRYING OUT THE WORKS. WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE RELEVANT NCC REQUIREMENTS AND RELEVANT CURRENT AUSTRALIAN STANDARDS INCLUDING ALL AMENDMENTS, AND THE REQUIREMENTS OF THE LOCAL STATUTORY AUTHORITIES.

4 CONTRACTOR AND SUB-TRADES SHALL DETERMINE, CONTROL AND RETAIN RESPONSIBILITY FOR ALL CONSTRUCTION ACTIVITIES, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AS WELL AS QUANTITIES OF MATERIALS AND DIMENSIONS OF WORK TO ENSURE DESIGN INTENT AND COMPLIANCE WITH THE NCC AND AUSTRALIAN STANDARDS.

5 ANY SHOP DRAWING REVIEWS BY WSP ARE NOT FULL REVIEWS GIVEN RESOURCE/ TIME RESTRAINTS AND ARE LIMITED TO THE PURPOSES NOTIFIED IN THE TRANSMITTAL OF SHOP DRAWING(S). SHOP DRAWING REVIEWS ARE LIMITED TO A DESKTOP REVIEW TO IDENTIFY OBVIOUS ERRORS AND ASSUMES THE PREPARATION OF THE SHOP DRAWING BY OTHER PARTIES INCLUDES PROPER ANALYSIS, CALCULATIONS AND/OR MODELLING FOR COMPLIANCE WITH RELEVANT NCC AND AUSTRALIAN STANDARDS.

6 ANY SHOP DRAWING REVIEW BY WSP ASSUMES NO CHANGE WAS MADE IN THE PREPARATION OF THE SHOP DRAWINGS WHICH RENDER THE ORIGINAL WSP DESIGN NON-COMPLIANT. SHOP DRAWING REVIEWS BY WSP DOES NOT RELEASE THE CONTRACTOR AND SUB-TRADES OF ITS RESPONSIBILITY TO LIAISE DIRECTLY WITH THE PARTIES RESPONSIBLE FOR PREPARATION OF THE SHOP DRAWING.

7 ALL SHOP DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE CONTRACT DOCUMENTS (INCLUDING ALL ARCHITECTURAL AND OTHER CONSULTANTS' DRAWINGS AND SPECIFICATIONS) AND OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE DESIGN. IF THERE IS A DISCREPANCY ON THE SHOP DRAWINGS OR BETWEEN THE SHOP DRAWINGS AND/OR THE SPECIFICATION AND/OR THE SPECIFIED AUSTRALIAN STANDARD, ASSUME THE APPLICATION OF THE HIGHER OR MORE ONEROUS CRITERIA.

8 THESE DRAWINGS SHOW TYPICAL DETAILS ONLY. THE PARTIES RESPONSIBLE FOR PREPARATION OF THE SHOP DRAWINGS IS REQUIRED TO DEVELOP ALL RELEVANT DETAILS NOT SPECIFICALLY SHOWN AND ARE WHOLLY RESPONSIBLE FOR CORRECTNESS OF THEIR DESIGN AND NO REVIEW OR APPROVAL BY WSP IS TO BE RELIED UPON

9 WHERE SHOP DRAWINGS ARE RELIANT ON CRITICAL DIMENSIONS, THESE SHALL BE OBTAINED FROM SITE MEASUREMENTS AND/OR SHOP DRAWINGS PRODUCED BY OTHER TRADES AND CLEARLY SHOWN ON THE RESULTANT SHOP DRAWINGS.

10 ANY PRODUCT OR EQUIPMENT SPECIFIED IN THE PLANS, SPECIFICATION OR ELSEWHERE IS BASED UPON MATERIAL DATA ISSUED BY THE MANUFACTURER. THE CONTRACTOR AND SUB-TRADES ARE REQUIRED TO VERIFY THE SUITABILITY OF THE SPECIFIED OR SELECTED PRODUCT(S) AND SEEK ALTERNATIVES IF NECESSARY.

11 ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE. ALL LEVELS ARE IN METRES UNLESS NOTED OTHERWISE.

12 ALL DIMENSIONS RELEVANT TO SETTING OUT AND OFF-SITE WORK SHALL BE VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION OR FABRICATION IS COMMENCED. THE WSP DRAWINGS SHALL NOT BE SCALED. DIMENSIONS RELEVANT TO SETTING OUT SHOULD BE TAKEN FROM ARCHITECTURAL AND/OR LANDSCAPE DRAWINGS. DRAWINGS BY WSP MAY NOT SHOW EQUIPMENT TO SCALE AND MAY NOT BE FULLY COORDINATED WITH ALL OTHER SERVICES.

13 FOR STRUCTURAL SERVICES THE DRAWINGS CONSTITUTE THE MAIN STRUCTURAL FRAMING ONLY AND DO NOT INCLUDE A FULL SCOPE OF SECONDARY ELEMENTS TO SUPPORT FACADE CLADDING, HANDRAILS, INTERNAL PARTITION WALLS, ETC.

14 THE STRUCTURAL DRAWINGS DO NOT SHOW ALL DETAILS OF FIXTURES, INSERTS, SLEEVES, OPENINGS, ETC. REQUIRED BY THE VARIOUS TRADES. ALL SUCH DETAILS, INCLUDING OPENINGS FOR CONSTRUCTION PURPOSES, MUST BE APPROVED BY WSP BEFORE PROCEEDING WITH CONSTRUCTION.

15 DURING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE STRUCTURE AND ADJACENT STRUCTURES IN A STABLE CONDITION AND ENSURING NO PART SHALL BE OVERSTRESSED UNDER CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY BRACING AND/OR PROPPING AS NECESSARY, INCLUDING ANY TEMPORARY SUPPORT FOR EXCAVATIONS.

16 ALL PROPS AND FORMWORK FOR FLOOR BEAMS AND SLABS SHALL BE REMOVED BEFORE CONSTRUCTION OF ANY MASONRY WALLS OR PARTITIONS ON THE FLOOR.

17 THE CONTRACTOR SHALL ENSURE THAT ALL STRUCTURAL MEMBERS AND/OR COMPONENT MATERIALS ARE PROTECTED FROM THE WEATHER AND THAT STRUCTURAL PROPERTIES ARE NOT IMPAIRED IN ANY WAY DURING THE CONSTRUCTION PERIOD.

18 THE APPROVAL OF A SUBSTITUTION SHALL BE SOUGHT FROM WSP. APPROVAL BY WSP OF AN ALTERNATIVE IS NOT AN AUTHORIZATION FOR A COST VARIATION. ANY CLAIM FOR A COST VARIATION MUST BE SUBMITTED TO WSP AND THE CLIENT/CLIENT REPRESENTATIVE BEFORE THE WORK COMMENCES.

19 ALL PENETRATIONS AND/OR SET DOWNS SHOWN ON STRUCTURAL DRAWINGS ARE INDICATIVE ONLY. THE CONTRACTOR SHALL COORDINATE ALL SERVICES AND ENSURE THAT THE FINAL LOCATION AND SIZE OF PENETRATIONS AND/OR SET DOWNS ARE CONFIRMED BY THE APPROPRIATE SUB-CONTRACTOR. FINAL DETAILS ARE TO BE SUBMITTED TO WSP FOR APPROVAL PRIOR TO CONSTRUCTION.

20 ALL PROPRIETY PRODUCTS SPECIFIED ON THESE DRAWINGS SHALL BE USED STRICTLY IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. ALTERNATIVE PRODUCTS MAY ONLY BE USED WITH THE APPROVAL OF WSP, FOLLOWING SUBMISSION OF EVIDENCE OF EQUIVALENCE.

21 ALL NON-LOADBEARING WALLS SHALL BE KEPT 20mm CLEAR OF THE UNDERSIDE OF SLABS AND BEAMS UNLESS NOTED OTHERWISE.

22 GENERALLY THE FOLLOWING INFORMATION WILL NOT BE SHOWN ON WSP DRAWINGS: NON-STRUCTURAL INCLUSIONS OR CAST-IN FIXINGS, E.G. COLUMN GUARDS, LOCATION AND DETAILS OF FIXINGS FOR BRICKWORK, BLOCKWORK, CLADDING, DOORS, WINDOWS ETC. (FIXINGS MAY BE SHOWN IN SITUATIONS OF ABOVE NORMAL COMPLEXITY AND WHERE THEY ARE ESSENTIAL TO THE STRUCTURAL STABILITY), CHAMFERS, ARRISE, CHASES AND REBATES FOR DRIPS, ARCHITECTURAL DETAILS, ETC. CAST-IN SOCKETS, BOLTS OR STUDS FOR FIXING PIPEWORK, DUCTWORK ETC. CONCRETE KERBS, SLOPES, FLOOR DRAINS. DETAILS FOR DAMP-PROOFING AND WATERPROOFING MEMBRANES, SEALANTS, DETAILS OF FIRE PROTECTION SYSTEMS ETC. OTHER THAN THOSE SHOWN ON STRUCTURAL DRAWINGS. THIS INFORMATION MAY BE FOUND ON BUILDERS WORK DRAWINGS PREPARED BY THE ARCHITECT, BUILDING SERVICES ENGINEERS OR SPECIALIST SUPPLIER OR SUBCONTRACTOR. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN AND CO-ORDINATE THIS INFORMATION AND TO ENSURE THAT ALL NECESSARY PROVISIONS ARE ACCOMMODATED.

23 ONLY THE CRANE AND PLANT LOADS SPECIFIED ON THE DRAWINGS HAVE BEEN ALLOWED FOR. ANY ADDITIONAL CRANES OR PLANT AREAS HAVE HAD NO SPECIAL ALLOWANCE MADE IN THE DESIGN OF THE STRUCTURE. REFERENCE SHOULD BE MADE TO THE LOADING PLANS FOR THE DESIGN LOADS. SHOULD THE CONTRACTOR PROPOSE TO USE THE PERMANENT STRUCTURE TO SUPPORT OR RESTRAIN CRANES, HOISTS OR OTHER PLANT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR VALIDATING THE DESIGN IN THE TEMPORARY CONDITION.

24 THE STRUCTURE/BUILDING DOCUMENTED ON THESE DRAWINGS HAS BEEN DESIGNED FOR THE FOLLOWING PURPOSE/USES:

24a LANDSCAPE ELEMENT SUPPORT

25 ANY MODIFICATIONS (INCLUDING PENETRATIONS, TRENCHING, CUT OUTS AND THE LIKE) TO THE STRUCTURAL MEMBERS SHALL BE APPROVED BY WSP PRIOR TO COMMENCEMENT OF SUCH WORK.

26a EARTHQUAKE CRITERIA:

26b IMPORTANCE LEVEL

26c PROBABILITY FACTOR (kp)

26d HAZARD FACTOR (Z)

26e SITE SUB-SOIL CLASS - UNKNOWN. GEOTECHNICAL ENGINEER TO CONFIRM

26f EARTHQUAKE DESIGN CATEGORY (EDC)

26g FIRE RESISTANCE PERIOD:=REFER TO ARCHITECT

EARTHWORKS NOTES

1 ALL MATERIALS, WORKMANSHIP, HANDLING AND PLACEMENT SHALL BE IN ACCORDANCE WITH THE RELEVANT AUSTRALIAN STANDARDS, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.

2 THE CONTRACTOR SHALL MAKE PROVISION FOR THE EFFECTIVE DIVERSION OR REMOVAL OF ALL SURFACE WATER FROM THE PREPARED SUBGRADE, FROM ANY SOURCE. TEMPORARY DRAINS, EFFECTIVE PUMPING EQUIPMENT OR OTHER MEANS TO DE-WATER THE EARTHWORKS SHALL BE PROVIDED BY THE CONTRACTOR.

3 THE CONTRACTOR SHALL PROVIDE ALL REQUIRED ENVIRONMENTAL TREATMENT OF RUNOFF FROM THE CONSTRUCTION SITE.

4 PROOF ROLL THE EXPOSED SUBGRADE WITH A STATIC SMOOTH STEEL WHEELED ROLLER WITH A MINIMUM MASS OF 12 TONNES, TO REVEAL SOFT, WET, LOOSE OR UNSTABLE AREAS. ALL SUCH AREAS THAT DO NOT IMPROVE WITH ROLLING SHALL BE EXCAVATED AND REPLACED WITH APPROVED MATERIAL COMPACTED TO 98% OF STANDARD MAX DRY DENSITY. RAISE THE SUBGRADE LEVEL FOR THE BUILDING FOOTPRINT TO THE DESIGN LEVEL, AS REQUIRED, USING APPROVED FILL MATERIAL PLACED IN LAYERS NOT EXCEEDING 150mm AND COMPACTED TO 98% STANDARD MAX DRY DENSITY, BEFORE PLACING THE NEXT LAYER.

5 EXCAVATED MATERIAL WON FROM THE SITE SHALL NOT BE USED AS ENGINEERING FILL WITHOUT THE WRITTEN APPROVAL OF THE WSP.

6 SUBGRADE PREPARATION, FILL PLACEMENT AND COMPACTION SHALL BE SUPERVISED BY A GEOTECHNICAL ENGINEER. THE FREQUENCY OF FIELD TESTING SHALL BE IN ACCORDANCE WITH TYPE 1 EARTHWORKS AS SPECIFIED IN TABLE 8.1 OF AS3798.

FOOTING NOTES

1 THE MINIMUM SAFE BEARING CAPACITY OF THE FOUNDATION MATERIAL IS TO BE:

1a 150 kPa FOR PAD FOOTINGS

1b 125 kPa FOR STRIP FOOTINGS

1c 200 kPa FOR END BEARING FOR BORED PIERS/PILES

1d 20 kPa FOR SHAFT FRICTION FOR BORED PIERS/PILES

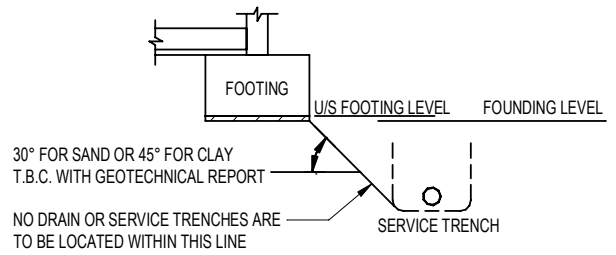
1e REFER TO GEOTECHNICAL REPORT No APIC15916 BY FORTIFY GEOTECH FOR GUIDANCE

2 THE CONTRACTOR IS TO ALLOW FOR THE ENGAGEMENT OF A GEOTECHNICAL ENGINEER TO VERIFY THE FOUNDING MATERIAL PRIOR TO PLACEMENT OF REINFORCEMENT OR CONCRETE.

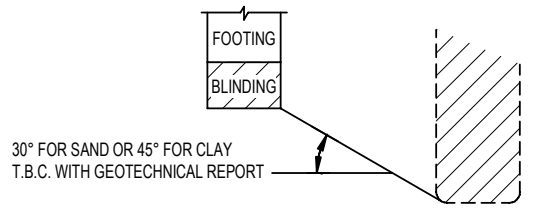
3 THE CONTRACTOR IS TO IMPLEMENT ALL THE RECOMMENDATIONS CONTAINED IN THE GEOTECHNICAL REPORT.

4 SITE CLASSIFICATION IN ACCORDANCE WITH AS 2870 IS CLASS P

5 OVER-EXCAVATION WITHIN THE INFLUENCE ZONE (45 DEGREE LINE DOWN FROM BASE OF FOOTING AND/OR WALL) OF ANY FOOTING AND/OR RETAINING WALL IS NOT ALLOWED WITHOUT THE PRIOR APPROVAL OF THE EXCAVATION SEQUENCE BY THE SUPERINTENDENT.



6 UNLESS NOTED OTHERWISE, WHEREVER A NEW FOOTING IS LOCATED CLOSE TO AN EXCAVATION, BATTER, EXISTING FOOTING, EXISTING SERVICE LINE OR PROPOSED SERVICE LINE, WHICH IS DEEPER THAN THE NEW FOOTING, THE EXCAVATION FOR THE NEW FOOTING IS TO BE DEEPENED AND BACKFILLED WITH BLINDING CONCRETE AS INDICATED BELOW.



7 THE ASSUMED FOUNDING LEVELS OF THE FOOTINGS ARE TO BE AS INDICATED ON THE DRAWINGS. BEFORE ANY REINFORCEMENT OR CONCRETE IS PLACED, THE SAFE BEARING CAPACITY OF THE GROUND IS TO BE VERIFIED BY A GEOTECHNICAL ENGINEER. EXCAVATION SHALL CONTINUE UNTIL THE REQUIRED BEARING CAPACITY IS FOUND. OVER-EXCAVATION SHALL BE BACK-FILLED WITH 15 MPa BLINDING CONCRETE TO THE REQUIRED FOUNDING LEVEL.

SUB-GRADE PREPARATION NOTES

1 IT IS RECOMMENDED THAT SLAB BASE PREPARATION IS CARRIED OUT DURING THE DRIER MONTHS WHERE POSSIBLE.

2 THE SITE SHALL BE CLEARED OF ALL RUBBISH, FENCES, BUILDINGS, TREES, NON-ENGINEERED FILLING AND DELETERIOUS MATERIALS. TOP SOIL SHALL BE STRIPPED AND STOCKPILED AND THE GROUND EXCAVATED TO THE REQUIRED LEVELS. THE EXPOSED SURFACE SHALL BE PROOFED ROLLED WITH A 12T STATIC WEIGHT ROLLER WITH A MINIMUM OF 5 PASSES. ANY SOFT, WET OR LOOSE MATERIAL THAT DOES NOT RESPOND TO COMPACTION SHALL BE EXCAVATED TO EXPOSE A FIRM WORKING BASE AND REPLACED WITH SELECT FILLING AS SPECIFIED BELOW.

3 THE MOISTURE CONTENT OF THE SUB GRADE IS CRITICAL. DEPENDING ON THE MOISTURE CONTENT OF THE SUB GRADE AT THE TIME OF CONSTRUCTION, IT MAY BE NECESSARY TO ADD WATER OR ALLOW THE SUB GRADE TO DRY TO ACHIEVE SATISFACTORY COMPACTION. ALTERNATIVELY IF THE SUB GRADE IS WET OF OPTIMUM, HYDRATED LIME MAY BE USED TO STABILISE THE SUB GRADE ON APPROVAL OF THE PROJECT GEOTECHNICAL ENGINEER. THE MOISTURE CONTENT OF THE SUB GRADE SHOULD BE ADJUSTED TO WITHIN 85-115% OF THE STANDARD OPTIMUM MOISTURE CONTENT.

4 CLEAN COMPACTABLE NATURAL FILLING IS TO BE IMPORTED AND COMPACTED IN LAYERS NOT EXCEEDING 200mm LOOSE THICKNESS, USING AN APPROPRIATE VIBRATING ROLLER AND COMPACTED TO A DRY DENSITY OF NOT LESS THAN 98% OF THE MAXIMUM DRY DENSITY VALUE DETERMINED BY THE STANDARD COMPACTION TEST IN ACCORDANCE WITH AS1289 5.1 AND WITHIN ± 2% OF OPTIMUM. CARE SHALL BE TAKEN NOT TO OVER COMPACT OR PLACE FILLING TOO DRY OF OPTIMUM TO MINIMIZE THE EFFECTS OF POST CONSTRUCTION SWELLING.

5 IMPORTED FILLING USED SHALL BE CLEAN AND ESSENTIALLY OF GRANULAR NATURE, NON-ORGANIC AND HAVE A PLASTICITY INDEX OF LESS THAN 12%. IT SHALL HAVE A NOMINAL PARTICLE SIZE OF 50mm OR LESS.

6 ALL FILLING MUST BE PLACED AND CONTROLLED BY AN ACCREDITED GEOTECHNICAL AUTHORITY TO LEVEL 1 REQUIREMENTS, AS SET OUT IN AS3798-2007. TEST RESULTS AND CERTIFICATION SHALL BE SUPPLIED TO THE WSP/ARCHITECT AT THE CONTRACTOR'S EXPENSE.

7 A MINIMUM COMPACTED LIFT OF 150mm IMPORTED FILLING SHOULD BE PLACED IMMEDIATELY ONCE SUB GRADE PREPARATION IS COMPLETED TO PROTECT THE SUB GRADE FROM MOISTURE CHANGES AND TO PROVIDE A WORKING PLATFORM FOR CONSTRUCTION PLANT/VEHICLES.

8 ALL PIPE AND TRENCH EXCAVATIONS SHALL BE CARRIED OUT CAREFULLY AND SHALL BE OF A MINIMUM SIZE. EXCAVATIONS SHALL BE BACKFILLED WITH APPROVED GRANULAR MATERIAL AND SHALL BE PLACED IN LAYERS NOT EXCEEDING 150mm LOOSE DEPTH AND COMPACTED BY VIBRATING PLATE TO A MINIMUM DRY DENSITY OF 100% OF THE AUSTRALIAN STANDARD MODIFIED COMPACTION TEST.

9 THE CONTRACTOR SHALL ALLOW FOR 2 No. FIELD DRY DENSITY TESTS TO BE CARRIED OUT AT MID-HEIGHT OF BACKFILL IN PIPE TRENCHES EXCEEDING 1 METRE IN DEPTH AND 2 No. AT FINAL SURFACE LEVEL OF THAT BACKFILL. FIELD DRY DENSITY TESTS TO BE CARRIED OUT IN ACCORDANCE WITH AUSTRALIAN STANDARD A.S. 1269 - TEST E.3.2.

10 EXCAVATE FOR BEAMS AND FOOTINGS TO THE DIMENSIONS SHOWN ON THE DRAWINGS, ENSURING THAT THE BASE AND SIDES OF THE EXCAVATIONS REMAIN FULLY COMPACTED AT ALL TIMES.

11 IMMEDIATELY BELOW THE SLAB, PLACE 50mm MINIMUM COMPACTED SAND BEDDING.

12 LAY A DAMP-PROOF MEMBRANE TO THE ENTIRE SLAB AREA AND ASSOCIATED BEAMS (0.2mm THICK 'FORTECON' OR SIMILAR APPROVED EQUIVALENT, OR AS SPECIFIED ON ARCHITECTURAL DRAWINGS). THE MEMBRANE SHALL BE LAPPED 300mm MINIMUM AT JOINTS AND TAPED CONTINUOUSLY WITH MOISTUREPROOF PRESSURE SENSITIVE TAPE. WRAP AND TAPE ALL PIPE PENETRATIONS. ANY HOLES ARE TO BE PATCHED AND TAPED.

TENDER NOTES

1 THESE DRAWINGS HAVE BEEN DEVELOPED TO APPROXIMATELY 100% DESIGN DEVELOPMENT AND ARE INTENDED FOR THE PURPOSE OF D+C TENDER. THEY ARE AN INDICATIVE EXTENT OF THE COMPLETE WORKS ONLY. THE DRAWINGS REQUIRE FURTHER DEVELOPMENT AND DETAILS TO ACHIEVE FINALISED DESIGN DEVELOPMENT LEVEL AND BE SUITABLE FOR CONSTRUCTION. THE TENDERING CONTRACTOR IS TO REVIEW THE DESIGN INTENT WITHIN AND MAKE SUITABLE ALLOWANCE FOR THE COMPLETION OF THE DESIGN AND SUITABLE ALLOWANCE TO COMPLETE THE ENTIRE SCOPE OF WORKS.

2 TO DETERMINE THE FULL EXTENT OF WORKS, THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE ARCHITECTURAL DRAWINGS, ENGINEERING SERVICES DRAWINGS, LANDSCAPE DRAWINGS, CIVIL DRAWINGS, 100% DESIGN DEVELOPMENT REPORT, PROJECT GEOTECHNICAL REPORTS, PROJECT SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS. IT IS THE CONTRACTORS RESPONSIBILITY TO ALLOW FOR ALL COST ELEMENTS SHOWN ON THE ARCHITECTURAL AND OTHER CONSULTANT'S DRAWINGS AND SPECIFICATIONS TO COMPLETELY CONSTRUCT THE FULL SCOPE OF WORKS.

3 THE CONTRACTOR IS TO ALLOW TO COORDINATE THE REQUIREMENTS FOR ALL SERVICES, SETDOWN, HOBS, FALLS, PENETRATIONS, ETC REQUIRED TO COMPLETE THE WORKS AND COMPLETE THE CONSULTANTS DESIGN INTENT.

4 THE CONTRACTOR IS TO COMPLETELY READ THE CONTRACT DOCUMENTATION AND IS TO ALLOW TO INCORPORATE ALL OF THE REQUIRED ITEMS INTO THE FINAL DESIGN AND CONSTRUCTION WORKS.

5 THE CONTRACTOR IS TO ALLOW FOR THE COST OF CONSTRUCTION JOINTS, EXPANSION JOINTS, SLIP JOINTS, SAW CUTS, OR OTHERWISE NOT SHOWN ON PLAN AND REQUIRED TO COMPLETE THE WORKS.

6 THE CONTRACTOR IS TO ALLOW FOR THE COSTS OF ALL SECONDARY AND TERTIARY STEELWORK INCLUDING CONNECTIONS REQUIRED TO SUPPORT ALL ARCHITECTURAL SCREENS, CLADDING, CEILINGS, SUN SHADES, LOUVRES AND SHADE FINS, TYPICAL. FINAL DETAILS ARE TO BE DEVELOPED BY THE CONTRACTOR FOLLOWING TENDER AWARD.

7 THE CONTRACTOR IS TO ALLOW FOR THE COST OF ALL MISCELLANEOUS SECONDARY STEELWORK, GLAZING AND DOOR SUPPORTS, BRACES NON LOAD BEARING WALL RESTRAINT ELEMENTS, GUTTERING AND GUTTER SUPPORTS, FACADE AND DOOR FRAMING, GIRTS AND JOISTS, METALWORK OR OTHERWISE SHOWN ON THE ARCHITECTURAL AND OTHER CONSULTANTS DRAWINGS AND REQUIRED TO COMPLETE THE WORKS.

8 THE CONTRACTOR IS TO ALLOW FOR THE COST OF ALL CONNECTIONS RELATING TO STEELWORK, MISCELLANEOUS STEELWORK, METALWORK, GUTTERING, FACADE AND DOOR FRAMING, GIRTS AND JOISTS REQUIRED TO COMPLETE THE WORKS.

9 ALL EXPOSED OR EXTERIOR ENVIRONMENT STEELWORK IS TO BE GALVANISED U.N.O.

10 ALL EXPOSED OR EXTERIOR ENVIRONMENT REINFORCING STEEL OR DOWELLING IS TO BE GALVANISED U.N.O.

11 ROOF ACCESS POINTS LOCATIONS HAVE NOT BEEN FINALISED OR SHOWN ON THE DOCUMENTATION. THE CONTRACTOR IS TO MAKE ALLOWANCE FOR SECONDARY FRAMING REQUIRED TO SUPPORT ANY SAFE ROOF ACCESS POINTS AND RESTRAINTS, TO BE CONFIRMED BY THE ACCESS CONSULTANT/ARCHITECT. RESULTING STRUCTURAL DESIGN AMENDMENTS ARE TO BE CONFIRMED BY WSP AND ARE NOT GROUNDS FOR A VARIATION CLAIM.

12 THE CONTRACTOR IS TO ALLOW FOR ALL WATERPROOFING AS NOTED IN THE DRAWINGS AND SPECIFICATIONS TO THE ARCHITECTURAL DETAILS UNLESS NOTED OTHERWISE. NOTE: ALL STRUCTURES BELOW THE WATER TABLE ARE TO BE FULLY TANKED.

13 THE STRUCTURAL THICKNESSES NOTED ON THE STRUCTURAL DRAWINGS ARE NOT TO BE ALTERED WITHOUT THE PRIOR WRITTEN APPROVAL BY THE PROJECT WSP AND WSP.

14 ALL WALLS NOT SHOWN ON THE STRUCTURAL DRAWINGS ARE ASSUMED TO BE LIGHTWEIGHT FRAMED AND NON-LOAD BEARING U.N.O. REFER TO THE ARCHITECTS DOCUMENTATION FOR DETAILS.

15 SHOULD ANY AMBIGUITY, ERROR OR OMISSIONS, DISCREPANCY, INCONSISTENCY OR OTHER FAULT EXIST, OR SEEM TO EXIST IN THESE DOCUMENTS, IMMEDIATELY NOTIFY WSP AND THE PROJECT WSP.

16 ALL TEMPORARY WORKS REQUIRED TO COMPLETE THE FULL SCOPE OF WORKS IS TO BE ALLOWED FOR BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. THE DESIGN AND CERTIFICATION OF SUCH WORKS IS TO BE COMPLETED BY A SUITABLY QUALIFIED TEMPORARY WORKS ENGINEER AT THE CONTRACTORS EXPENSE.

17 THE GEOTECHNICAL INFORMATION ISSUED FOR D+C TENDER IS INCOMPLETE AND IN MOST CASES PRELIMINARY ONLY. THE CONTRACTOR IS TO ALLOW FOR THE ENGAGEMENT OF A GEOTECHNICAL ENGINEER TO CARRY OUT ADDITIONAL GEOTECHNICAL INVESTIGATIONS AS REQUIRED TO CONFIRM THE ASSUMPTIONS NOTED IN THE DESIGN. THE CONTRACTOR IS TO MAKE A REASONABLE ALLOWANCE TO DEVELOP THE DESIGN INTENT BASED ON THE SITE CONDITIONS INCLUDING ALLOWING FOR THE REMOVAL OF HIGHLY REACTIVE MATERIAL, PROCUREMENT AND PLACEMENT OF ENGINEERED FILL AND THE ENGAGEMENT OF A SUITABLY QUALIFIED GEOTECHNICAL ENGINEER TO FINALISE ENGINEERING FILL SPECIFICATIONS AND SUPERVISE PLACEMENT.

18 ALL SUBGRADE PREPARATION IS TO COMPLY WITH THE REQUIREMENTS OF THE GEOTECHNICAL REPORTS AND THE RECOMMENDATION OF THE PROJECT GEOTECHNICAL ENGINEER. REFER TO GENERAL NOTES DRAWING.

19 THE CONTRACTOR IS TO COMPLETELY READ AND MAKE THEIR OWN ASSESSMENT OF THE PROJECT GEOTECHNICAL REPORTS AND MAKE SUFFICIENT ALLOWANCES FOR BLINDING, EXCAVATION, BULK EARTHWORKS, EXCAVATION IN ROCK, SITE STRIPPING, REMOVAL OF SOFT SPOTS, REMOVAL OF HIGHLY REACTIVE CLAYS AS REQUIRED BY THE GEOTECHNICAL REPORTS, SUB GRADE PREPARATION, CONSTRUCTION OF ENGINEERED FILL PLATFORMS AND DISPOSAL OF SPOIL AS REQUIRED TO CONSTRUCT THE PROJECT.

20 THE CONTRACTOR IS TO MAKE THEIR OWN ASSESSMENT OF THE EXISTING MATERIAL ON SITE AND MAKE SUFFICIENT ALLOWANCE FOR ADDITIONAL GEOTECHNICAL TESTING TO DETERMINE THE SUITABILITY FOR USE AS ENGINEERED FILL MATERIAL TO THE SATISFACTION OF THE PROJECT GEOTECHNICAL ENGINEER AND THE PROJECT WSP.

21 THE CONTRACTOR IS TO MAKE SUITABLE ALLOWANCES TO IMPLEMENT ALL THE RECOMMENDATIONS WITHIN THE PROJECT GEOTECHNICAL REPORTS.

22 THE CONTRACTOR IS TO READ THE DOCUMENTED SLAB AND FOUNDATION PLANS IN CONJUNCTION WITH THE CIVIL ENGINEERING DOCUMENTATION AND THE ARCHITECTURAL DOCUMENTATION TO DETERMINE THE EXTENT OF REQUIRED CUT AND FILL. THE CONTRACTOR IS TO MAKE SUFFICIENT ALLOWANCES FOR THE CONSTRUCTION OF THE SUB GRADE AND BUILDINGS PADS INLINE WITH THE DOCUMENTED DESIGN INTENT.

23 THE CONTRACTOR IS TO MAKE SUFFICIENT ALLOWANCE IN THEIR PRICING FOR THE REGISTERED BUILDING SURVEYOR TO UNDERTAKE ALL MANDATORY INSPECTIONS AS REQUIRED UNDER THE BUILDING PERMITS AND THE BUILDING ACT FOR THE PROJECT. WHERE THE STRUCTURAL ENGINEER HAS CARRIED OUT AN INSPECTION IT IS NOT INTENDED TO REPLACE THE BUILDING SURVEYORS MANDATORY INSPECTIONS AND CANNOT BE ASSUMED TO DO SO.

24 THE CONTRACTOR IS TO MAKE SUFFICIENT ALLOWANCE FOR THE DESIGN AND CONSTRUCTION OF ALL SECONDARY STRUCTURES AS REQUIRED TO COMPLETE THE SCOPE OF WORKS INCLUDING LIGHT POLE FOOTINGS, FENCES AND GATE FOOTINGS, FENCES, ENTRY SIGNAGE, RETAINING WALLS, COVER WAYS, ETC WITH DETAILS TO BE DEVELOPED AND FINALISED FOLLOWING APPOINTMENT OF A CONTRACTOR.

CONCRETE NOTES

1 ALL MATERIALS, WORKMANSHIP, HANDLING AND PLACEMENT SHALL BE IN ACCORDANCE WITH THE RELEVANT AUSTRALIAN STANDARDS, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.

2 BEAM DEPTHS ARE WRITTEN FIRST AND INCLUDE SLAB THICKNESS. BEAMS AND SLABS ARE TO BE POURED TOGETHER UNLESS NOTED OTHERWISE.

3 SIZES OF CONCRETE ELEMENTS DO NOT INCLUDE THICKNESS OF APPLIED FINISHES.

4 HOLES, CHASES OR EMBEDMENT OF PIPES OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS SHALL NOT BE MADE IN ANY STRUCTURAL CONCRETE WITHOUT PRIOR APPROVAL OF THE WSP.

5 CONSTRUCTION JOINTS SHALL BE PROPERLY FORMED AND USED ONLY WHERE SHOWN ON THE DRAWINGS OR SPECIFICALLY APPROVED BY THE WSP.

6 ALL EXPOSED CONCRETE CORNERS TO HAVE 15mm CHAMFER U.N.O.

7 CAMBER TO SUSPENDED SLABS SHALL BE POSITIVE UPWARD CAMBER OF 3mm PER 1000mm SPAN UNLESS NOTED OTHERWISE. BEAMS SHALL BE CAMBERED AS SHOWN ON DRAWINGS. NO CAMBER IS REQUIRED TO POST-TENSIONED BEAMS AND SLABS.

8 FORMWORK AND BACKPROPPING SHALL BE DESIGNED, CONSTRUCTED AND STRIPPED IN ACCORDANCE WITH AS 3610. REFER TO ARCHITECTURAL DRAWINGS AND THE SPECIFICATION FOR CLASSES OF SURFACE FINISH.

9 CONCRETE IS TO HAVE A MAXIMUM SHRINKAGE STRAIN OF 600 MICROSTRAIN

10 ALL CEMENT IS TO BE “GP” GENERAL PURPOSE PORTLAND CEMENT OR “GB” GENERAL PURPOSE BLENDED CEMENT OR TYPE “SR” SULPHATE-RESISTING CEMENT AS REQUIRED COMPLYING WITH AS3972 UNLESS NOTED OTHERWISE ON THE DRAWINGS. EXTRA RAPID HARDENING SUPERSULPHATED AND HIGH ALUMINA CEMENTS AND CEMENTS CONTAINING CHLORIDE SHALL NOT BE USED. THE USE OF FLY ASH AND/OR SILICA FUME AS A CEMENT SUBSTITUTE, OTHER THAN THAT PROPORTION ALLOWED AS PART OF THE “GB” CEMENT CONTENT WILL ONLY BE PERMITTED AS PART OF A DESIGNED CONCRETE MIX WHICH HAS BEEN APPROVED IN WRITING BY THE WSP.

11 WHERE NOTED ON PLAN (D) DENOTES SPECIAL DURABLE CONCRETE WHERE THE ELEMENT HAS AT LEAST ONE FACE EXPOSED TO THE WEATHER OR POSSIBLE CORROSIVE ATTACK. (THIS CONCRETE REQUIRES A SPECIAL TOLERANCE FOR THE COVERS OF - 0mm + 10mm). SPECIAL PRECAUTIONS ARE REQUIRED TO IMPROVE THE LONG TERM PERFORMANCE OF THESE FACES OF CONCRETE. IN PARTICULAR, NO METAL INSERTS, METAL BAR CHAIRS OR METAL FORM SPACERS OF ANY KIND ARE TO BE PLACED IN THE COVER ZONES WITHOUT THE EXPRESS PERMISSION OF THE WSP. TAKE SPECIAL CARE TO AVOID SCRAP TIE WIRE OR OTHER MATERIAL BEING PRESENT. REFER DRAWINGS FOR LOCATIONS.

12 CONCRETE TESTING SHALL COMPLY WITH THE REQUIREMENTS OF AS1379 FOR PROJECT ASSESSMENT.

13 CONCRETE SLUMP TO BE A MAXIMUM OF 80mm UNLESS NOTED OTHERWISE ON THE DRAWINGS.

14 FREE DROPPING OF CONCRETE FROM A HEIGHT GREATER THAN 1000mm IS NOT PERMITTED.

15 SURFACES RECEIVING GROUT SHALL BE LEFT ROUGH AND FREE OF LAITANCE.

16 CONCRETE MUST BE CURED BY AN APPROVED CURING COMPOUND ACHIEVING A MINIMUM 90% MOISTURE RETENTION IN ACCORDANCE WITH AS3799.

17 REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY AND NOT NECESSARILY SHOWN IN TRUE PROJECTION OR SCALE.

18 REINFORCEMENT SYMBOLS:

18a N - NORMAL DUCTILITY CLASS HOT ROLLED DEFORMED BARS OR MESH TO AS/NZS 4671 WITH fsy=500 MPa.

18b R - NORMAL DUCTILITY CLASS 250N PLAIN ROUND BAR TO AS/NZS 4671 WITH fsy=250 MPa.

18c L - LOW DUCTILITY CLASS 500L REINFORCING MESH OR BAR TO AS/NZS 4671 WITH fsy=500 MPa.

18d LOW DUCTILITY CLASS L REINFORCEMENT IS NOT TO BE USED OTHER THAN WHERE SHOWN ON DRAWINGS THE NUMBER FOLLOWING THE BAR SYMBOL IS THE NORMAL BAR DIAMETER IN MILLIMETRES.

19 SPLICES IN REINFORCEMENT SHALL BE MADE IN THE POSITIONS SHOWN OR AS OTHERWISE APPROVED BY THE WSP. MINIMUM LAP FOR ALL FABRICS SHALL BE THE SPACING OF TWO TRANSVERSE WIRES PLUS 25mm. GRADE 500N BARS SHALL BE LAPPED IN ACCORDANCE WITH THE STANDARD LAP LENGTH TABLE BELOW IF NOT STATED OTHERWISE ON THE DRAWINGS.

20 HOOKS AND COGS SHALL COMPLY WITH AS 3600 UNLESS OTHERWISE SHOWN ON THE DRAWINGS.

21 CUTTING OR WELDING OF REINFORCEMENT IS NOT ALLOWED WITHOUT THE APPROVAL OF THE WSP.

22 CONDUITS AND OTHER CAST IN ITEMS SHALL BE FABRICATED AND INSTALLED SO THAT NO CUTTING, BENDING OR DISPLACEMENT OF THE REINFORCEMENT FROM ITS PROPER POSITION WILL BE REQUIRED.

23 3N12-100 TOP DIAGONAL CORNER TRIMMER BARS x 2000mm LONG ARE REQUIRED DIAGONALLY ACROSS ALL RE-ENTRANT CORNERS FOR SLABS ON GROUND. 2N16-100 TOP DIAGONAL CORNER TRIMMER BARS x 1500mm LONG ARE REQUIRED DIAGONALLY ACROSS ALL RE-ENTRANT CORNERS OF OPENINGS IN SUSPENDED SLABS AND WALLS.

24 REINFORCEMENT LENGTHS INDICATED ARE IN MILLIMETRES AND ARE PLAN LENGTH ONLY. TURN DOWNS AND CRANKS ARE NOT INCLUDED IN THE DIMENSION.

25 BARS SHOWN STAGGERED ON PLAN SHALL BE PLACED ALTERNATELY.

26 BARS SHALL BE EVENLY DISTRIBUTED OVER THE WIDTH OF THE STRIP INDICATED ON THE DRAWINGS UNLESS NOTED OTHERWISE.

27 ALL STEEL EMBEDMENTS WITHIN THE CONCRETE COVER ZONE SHALL BE HOT DIP GALVANIZED UNLESS APPROVED OTHERWISE BY THE WSP.

28 CONCRETE SHALL BE SEPARATED FROM SUPPORTING MASONRY BY TWO LAYERS OF MALTHOID (OR AN APPROVED EQUIVALENT). VERTICAL FACES OF CONCRETE SHALL BE KEPT FREE OF ADJOINING SURFACES BY 10mm THICKNESS OF ABLEFLEX (OR AN APPROVED EQUIVALENT) UNLESS NOTED OTHERWISE ON THE DRAWINGS. ALL NON-LOADBEARING WALLS SHALL BE KEPT CLEAR OF THE UNDERSIDE OF SLABS AND BEAMS BY 20mm UNLESS NOTED OTHERWISE ON THE DRAWINGS.

29 THIS TABLE IS TO ONLY BE USED WHERE CONCRETE STRENGTHS AND COVERS ARE NOT NOTED ON STRUCTURAL DRAWINGS.

CONCRETE ELEMENT	CONCRETE STRENGTH (MPa)	BOTTOM COVER (mm)	TOP COVER (mm)	SIDE COVER (mm)
BORED PIERS / PILES	50	-	-	75
PILE CAPS	50	75	75	50
PAD FOOTINGS	32	50	50	50
STRIP FOOTINGS / GROUND BEAMS	32	50	50	50
SLAB ON GROUND	32	40	30	-
SUSPENDED SLABS - INTERIOR	32	25	25	-
SUSPENDED SLABS - EXTERIOR	32	40	30	-
SUSPENDED BEAMS	32	35	35	50
WALLS	32	-	-	40

NOTES

30a COVER IS THE CLEAR DISTANCE BETWEEN ANY REINFORCING (INCLUDING FITMENTS) AND THE FACE OF THE STRUCTURAL ELEMENT.

30b FOR ALL EXTERNAL SURFACES, PROVIDE FULLY PLASTIC BAR CHAIRS. TIE WIRE SHALL NOT BE NAILED TO THE FORMS, REINFORCING BARS SHALL NOT BE USED TO KEEP FORMS APART AND A THROUGH TIE SYSTEM SHALL BE USED TO TIE FORMS.

30c THE COVERS SHALL BE MAINTAINED USING APPROVED BAR CHAIRS. IN SLABS THE BAR CHAIRS SHALL BE AT 800 x 800mm MAXIMUM CENTRES. BAR CHAIRS SHALL BE PROVIDED ALONG THE EDGES OF ALL CONSTRUCTION JOINTS. STOP ENDS SHALL NOT BE USED TO MAINTAIN THE COVERS.

30d EXTERNAL ELEMENTS ARE THOSE EXPOSED TO WEATHER, RAIN AND WATER PENETRATION AND ARE CLASSIFIED B1 UNLESS NOTED OTHERWISE

31 WELDING OF N500 GRADE REINFORCEMENT TO CAST IN PLATES SHALL COMPLY WITH AS 1554.3. ELECTRODE GRADE E50 SHALL BE USED AND THE TEMPERATURE OF THE WELDED BARS SHALL NOT EXCEED 200 DEGREES CELSIUS. THE BARS SHALL BE BENT TO THEIR INTENDED SHAPE PRIOR TO WELDING.

REINFORCEMENT LAPS

1 THE LAPS PROVIDED BELOW ARE BASED ON 'N500' GRADE REINFORCEMENT

2 LAPS DETAILED ON PLANS / ELEVATIONS TAKE PRIORITY OVER THE LAPS DETAILED BELOW

LAPPED SPLICE - 'L'
U.N.O THE LAPS PROVIDED BELOW APPLY TO;
- TOP REINFORCEMENT ON ELEMENTS > 300mm DEEP
- WALL HORIZONTAL REINFORCEMENT
- WALL HEADER BEAM REINFORCEMENT

	f'c			
db	32	40	50	>= 65
10	500	450	400	350
12	650	550	500	450
16	950	850	750	650
20	1250	1150	1000	900
24	1600	1450	1300	1150
28	1950	1750	1550	1400
32	2300	2100	1850	1650
36	2700	2450	2200	1900
40	3150	2800	2500	2200

LAPPED SPLICE - 'L2'
U.N.O THE LAPS PROVIDED BELOW APPLY TO;
- BOTTOM REINFORCEMENT
- TOP REINFORCEMENT ON ELEMENTS <= 300mm DEEP
- WALL VERTICAL REINFORCEMENT
- STAIR REINFORCEMENT

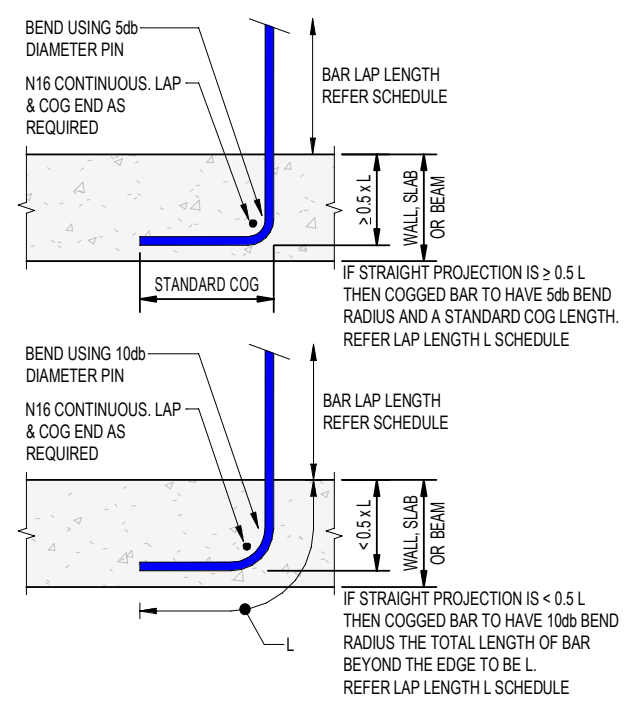
	f'c			
db	32	40	50	>= 65
10	400	350	300	300
12	500	450	400	350
16	700	650	600	500
20	950	850	800	700
24	1250	1100	1000	900
28	1500	1350	1200	1050
32	1800	1600	1450	1250
36	2100	1900	1700	1500
40	2450	2150	1950	1700

LAPPED SPLICE - 'L3'
U.N.O THE LAPS PROVIDED BELOW APPLY TO;
- COLUMN REINFORCEMENT

	f'c			
db	32	40	50	>= 65
10	350	350	350	350
12	400	400	400	400
16	550	550	550	550
20	650	650	650	650
24	800	800	800	800
28	900	900	900	900
32	1050	1050	1050	1050
36	1200	1200	1200	1200
40	1300	1300	1300	1300

LAP LENGTHS ABOVE ARE BASED ON THE FOLLOWING LIMITATIONS:
a. 32MPa MINIMUM NORMAL WEIGHT CONCRETE
b. MINIMUM CLEAR COVER TO BE THE GREATER OF THE BAR DIAMETER OR 20mm
c. 60mm MINIMUM CLEAR SPACING BETWEEN PARALLEL BARS

FULL DEVELOPMENT OF COGGED BARS



REV	DATE	BY	DESCRIPTION	CHK	APP
P6	09.06.2025	J.G.	TCCS DESIGN ACCEPTANCE	A.S/A.T.	A.T.
P5	24.04.2025	J.G.	100% DOCUMENT READINESS	A.S/A.T.	A.T.
P4	08.04.2025	J.G.	100% DOCUMENT READINESS	A.S/A.T.	A.T.
P3	31.01.2025	J.G./J.M.	DOCUMENT READNESS - 100%	A.S/A.T.	A.T.
P2	07.11.2024	J.G.	DOCUMENT READINESS 75%	A.T.	A.T.
P1	02.10.2024	J.G.	FINAL SKETCH PLAN	A.T.	A.T.

DRAWING STATUS: FOR APPROVAL

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CLIENT: ACT CITY RENEWAL AUTHORITY

ARCHITECT: OCULUS

PROJECT: DICKSON SHOPS AND STREETSCAPE

TITLE: STRUCTURES GENERAL NOTES - SHEET 1

SCALE @ A1:	CHECKED:	APPROVED:
N.T.S.	B.A. / A.S.	A.T.
PROJECT NUMBER:	DRAWN:	DATE:
PS208025	J.G. / J.M.	SEPT. 2024
DRAWING No: ST_01-001	REV: P6	

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DRAWING CREATED IN REVIT.

Binder 3a-966

DO NOT SCALE

EXPOSED VISUAL CONCRETE NOTES

1 GENERAL - ELEMENTS OF THE CONCRETE STRUCTURE AS IDENTIFIED BY THE ARCHITECT, ARE EXPOSED TO VIEW IN THE FINISHED BUILDING. THESE NOTES ARE TO BE READ IN ADDITION TO THE GENERAL CONCRETE, FORMWORK, AND POST-TENSIONING NOTES AND APPLY TO ANY CONCRETE IDENTIFIED AS BEING EXPOSED IN THE FINISHED BUILDING.

2 METHOD STATEMENT – THE CONTRACTOR IS TO SUBMIT A METHOD STATEMENT FOR THE CONCRETE WORKS THAT SHALL ADDRESS EACH OF THE ISSUES RAISED IN THIS SET OF NOTES.

3 SAMPLE – PRIOR TO COMMENCING THE MAIN STRUCTURE, THE CONTRACTOR IS TO PRODUCE SAMPLES COMPRISING A FULL-HEIGHT COLUMN, A WALL PANEL, AND A SECTION OF BEAM THAT IS REPRESENTATIVE OF THE FINAL WORKS AND USES THE METHODOLOGY OUTLINED IN THE CONTRACTOR'S METHOD STATEMENT. THE SAMPLE IS TO USE THE FORMWORK, CONCRETE, REINFORCEMENT, PLACEMENT AND STRIPPING METHODS THAT WILL BE FOLLOWED THROUGHOUT THE WORKS. THE SAMPLE WILL BE INSPECTED, AND IF AGREED TO COMPLY WITH THE ARCHITECT'S REQUIREMENTS MAY BE INCORPORATED INTO THE WORKS. THE SAMPLE IS THEN TO BE PROTECTED SO IT CAN BE REFERENCED LATER IF REQUIRED. THE SAMPLE MAY BE A PART OF THE WORKS.

4 APPEARANCE – THE APPEARANCE OF THE CONCRETE IS TO BE AS DEFINED BY THE ARCHITECT. THE INTENT IS TO ACHIEVE A FINISH BETTER THAN CLASS 2, BUT NOT TO THE STANDARD OF CLASS 1. THESE ELEMENTS ARE INTENDED TO BE EXPOSED "AS STRUCK"FROM THE FORMWORK. THEY ARE NOT TO BE RUBBED, REPAIRED, RENDERED OR OTHERWISE TREATED EXCEPT AS SPECIFIED BY THE ARCHITECT.

5 COLOUR – THE CONCRETE COLOUR IS TO BE UNIFORM THROUGHOUT ELEMENTS OF EACH TYPE (FLOORS, COLUMNS, AND WALLS).

6 CONCRETE – TO ENSURE CONSISTENCY OF COLOUR AND APPEARANCE, THE CONCRETE AND ITS CONSTITUENTS ARE TO BE OBTAINED FROM ONE SOURCE FOR THE DURATION OF THE PROJECT. THIS INCLUDES ANY CONSTITUENTS THAT IMPACT ON THE COLOUR SUCH AS CEMENT, AND FINE AND COARSE AGGREGATES. THE MIX DESIGNS AGREED AND USED IN THE SAMPLES ARE NOT TO BE VARIED FOR THE DURATION OF THE PROJECT.

7 COMPACTION - THE CONCRETE IS TO BE THOROUGHLY COMPACTED, WITH A SURFACE THAT IS SMOOTH AND UNIFORM. HONEYCOMBING OR GROUT LEAKAGE OF GREATER THAN 25mm WIDTH ON AN EDGE OR 50mm ON THE FACE OF AN ELEMENT WILL NOT BE ACCEPTED. SOME BLOW-HOLES, TO AN EXTENT GREATER THAN THAT DEFINED AS CLASS 1, MAY BE ACCEPTED.

8 FORMWORK DESIGN – THE FORMWORK MAY BE CONSTRUCTED USING MATERIALS AND METHODS APPROPRIATE FOR THE PRODUCTION OF CLASS 2 FINISH. THE FORMWORK IS TO BE CONSTRUCTED WITH JOINTS AND TIE-BOLTS IN LOCATIONS AGREED WITH THE ARCHITECT.

9 FORMWORK REPAIR – IN THE EVENT OF DAMAGE TO AN ELEMENT OF THE FORMWORK OCCURRING DURING THE DURATION OF THE PROJECT, THE ENTIRE SHEET OF PLYWOOD IS TO BE REPLACED. LOCAL REPAIRS ARE NOT TO BE CARRIED OUT TO FORMWORK IN VISUALLY EXPOSED AREAS. SHOULD THE SURFACE OF THE FORMWORK BECOME DEGRADED TO A DEGREE THAT IT CAN NO LONGER PRODUCE THE STANDARD OF FINISH AGREED FOR THE SAMPLE, THEN THE FORMWORK FACING IS TO BE REPLACED.

10 FORMWORK STRIKING – THE FORMWORK IS TO BE DESIGNED AND CONSTRUCTED SUCH THAT IT CAN BE STRUCK IN A MANNER THAT DOES NOT DAMAGE THE SURFACE FINISH, CORNERS, CHAMFERS ETC. THE FORMWORK IS TO BE STRUCK IN A MANNER THAT DOES NOT DAMAGE THE SURFACE FINISH OF THE CONCRETE. THE FORMWORK IS NOT TO BE STRUCK UNTIL THE CONCRETE HAS GAINED SUFFICIENT STRENGTH SO THAT THE SURFACE WILL NOT BE DAMAGED DURING STRIKING.

11 RELEASE AGENT – A NON-STAINING RELEASE AGENT IS TO BE SELECTED AND USED FOR THE CONSTRUCTION OF THE SAMPLE. THIS RELEASE AGENT IS TO BE USED CONSISTENTLY THROUGHOUT THE PROJECT.

12 CURING / SEALING – AS SOON AS IS PRACTICAL AFTER STRIKING OF THE FORMWORK, THE CONCRETE SURFACE IS TO RECEIVE AN APPROVED NON-STAINING SEALER AS AGREED WITH THE ARCHITECT. THIS SEALER IS NOT TO VARY FROM THAT USED IN THE SAMPLE.

13 PROTECTION – EXPOSED VISUAL CONCRETE SURFACES ARE TO BE PROTECTED FROM ACCIDENTAL DAMAGE, PAINT MARKING, TEMPORARY FIXINGS ETC FOR THE DURATION OF THE WORKS. THIS MAY BE BY MEANS OF PHYSICAL PROTECTION, SIGNAGE OR OTHER MEANS.

14 DIMENSIONAL TOLERANCES – PERMISSIBLE DEVIATION FROM A 3.0m STRAIGHT EDGE = 3mm. MAXIMUM LIPPING AT JOINTS = 1mm.

15 POST-TENSIONING FITTINGS – POST-TENSIONING LIVE ANCHORS ARE NOT TO BE LOCATED ON EXPOSED CONCRETE SURFACES.

FORMWORK NOTES

1 FORMWORK SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH AS 3610 EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.

2 PRIOR TO PLACEMENT OF CONCRETE, THE CONTRACTOR SHALL HAVE THE FORMWORK INSPECTED BY THE FORMWORK DESIGN ENGINEER AND SUPPLY THE WSP WITH A WRITTEN CERTIFICATION THAT THE FORMWORK COMPLIES WITH THE REQUIREMENTS OF AS 3610.

3 THE CLASS AND COLOUR OF THE CONCRETE SURFACE FINISH SHALL BE AS SPECIFIED ON THE ARCHITECTURAL DRAWINGS AND/OR THE SPECIFICATION. APPROVAL OF THE CONCRETE MIX DOES NOT ABSOLVE THE CONTRACTOR OF THE NEED TO COMPLY WITH THE REQUIRED CONCRETE COLOUR REQUIREMENTS.

4 EITHER BACKPROPPING OR AN UNDISTURBED SUPPORT SYSTEM OF FORMWORK IS TO BE ADOPTED. A RE-SHORING SYSTEM IS NOT TO BE USED.

5 THE FOLLOWING REQUIREMENTS SHALL BE INCORPORATED INTO THE FORMWORK DESIGN AND/OR ALLOWED FOR BY THE FORMWORK SUB-CONTRACTOR AS APPROPRIATE:

5a MINIMUM FORMWORK STRIPPING TIMES ARE TO BE AS FOLLOWS:

5b VERTICAL SURFACES MAY BE STRIPPED OF FORMWORK WHEN THE MINIMUM MEAN COMPRESSIVE STRENGTH OF CONCRETE fcm HAS REACHED 5.0 MPa. IF THE STRENGTH CANNOT BE ACCURATELY ASSESSED VIA THE USE OF TEST CYLINDERS STORED ON SITE AND CURED IN A SIMILAR MANNER TO THE PERMANENT STRUCTURE THEN THE MINIMUM FORMWORK STRIPPING TIME IS TO BE 2 DAYS PROVIDED THE AVERAGE AMBIENT TEMPERATURE OVER THAT PERIOD IS BETWEEN 12 AND 20 DEGREES CELSIUS.

5c SOFFITS OF BEAMS AND SLABS MAY BE STRIPPED OF FORMWORK AND BACKPROPPED WHEN THE MINIMUM MEAN COMPRESSIVE STRENGTH OF CONCRETE fcm HAS REACHED 22MPa. IF THE STRENGTH CANNOT BE ACCURATELY ASSESSED VIA THE USE OF TEST CYLINDERS STORED ON SITE AND CURED IN A SIMILAR MANNER TO THE PERMANENT STRUCTURE THEN THE MINIMUM FORMWORK STRIPPING TIME IS TO BE 6 DAYS PROVIDED THE AVERAGE AMBIENT TEMPERATURE OVER THAT PERIOD IS BETWEEN 12 AND 20 DEGREES CELSIUS.

5d REMOVAL OF FORMWORK SUPPORT (PROPS) TO BEAM AND SLAB SOFFITS MAY BE UNDERTAKEN WHEN THE MINIMUM MEAN COMPRESSIVE STRENGTH OF THE CONCRETE fcm HAS REACHED 28MPa. AND A MINIMUM 14 DAYS. IF THE STRENGTH CANNOT BE ACCURATELY ASSESSED VIA THE USE OF TEST CYLINDERS STORED ON SITE AND CURED IN A SIMILAR MANNER TO THE PERMANENT STRUCTURE THEN THE MINIMUM FORMWORK STRIPPING TIME IS TO BE 18 DAYS PROVIDED THE AVERAGE AMBIENT TO TEMPERATURE OVER THAT PERIOD IS BETWEEN 12 AND 20 DEGREES CELSIUS.

6 THE FORMWORK DESIGN SHALL ALLOW FOR 4 kPa OF STACKED MATERIALS ON ANY AREA OF THE FLOOR SYSTEM. ALL OTHER FORMWORK DESIGN LOADS SHALL BE SPECIFIED IN SECTION 4.4 OF AS 3610.

7 THE FLOOR SYSTEM IS TO ATTAIN A MINIMUM MEAN COMPRESSIVE STRENGTH OF CONCRETE fcm OF 15MPa PRIOR TO STACKING OF MATERIALS ON THAT LEVEL OF THE PERMANENT STRUCTURE.

8 A MINIMUM OF THREE 3 LEVELS OF FORMWORK &/OR BACKPROP SUPPORTS ARE REQUIRED. BASED UPON A 6 DAY CYCLE TIME AND PROVIDED THE AVERAGE AMBIENT TEMPERATURE OVER THAT PERIOD IS BETWEEN 12 AND 20 DEGREES CELSIUS.

9 HORIZONTAL LOADS ON FORMWORK ARE TO BE RESISTED BY THE FORMWORK BRACING. STRUTTING OF THE FORMWORK FROM THE PERMANENT STRUCTURE TO RESIST HORIZONTAL LOADS IS NOT PERMITTED.

10 POST-TENSIONING OF THE BEAMS MAY CAUSE CONTRACTION OF THE CONCRETE HENCE THE FORMWORK SHALL BE DESIGNED WITH ADEQUATE PROVISION TO ALLOW FOR ADJUSTMENT AND REMOVAL OF THE FORMS. POST-TENSIONING MAY ALSO CAUSE LIFTING OF THE FLOOR SYSTEM HENCE THE FORMWORK SHALL BE DESIGNED TO ALLOW FOR READJUSTMENT OF PROPS.

11 REFER TO THE DRAWINGS FOR LOCATIONS OF CONSTRUCTION JOINTS.

12 THE SEQUENCE OF CONCRETE PLACEMENT FOR THE WORKS IS TO BE SPECIFIED BY THE CONTRACTOR UNLESS NOTED OTHERWISE ON THE DRAWINGS.

13 PROPPING OF COMPOSITE CONSTRUCTION IS TO BE IN ACCORDANCE WITH MANUFACTURER REQUIREMENTS AND AS SPECIFIED ON THE DRAWINGS.

14 DESIGN LOADS FOR THE PERMANENT STRUCTURES ARE NOTED ON THE DRAWINGS.

15 A GEOTECHNICAL REPORT No. ....BY .... IS AVAILABLE FOR GUIDANCE AS TO THE FOUNDATION MATERIAL AVAILABLE FOR THE SUPPORT OF FORMWORK.

16 DETAILS OF THE REQUIREMENTS OF PERMANENT FORMWORK SHALL BE AS SPECIFIED IN THE CONTRACT DOCUMENTS

STRUCTURAL STEELWORK NOTES

1 CONSTRUCTION CATEGORY IN ACCORDANCE WITH THE REQUIREMENTS OF AS/NZS 5131.

ELEMENT	IMPORTANCE LEVEL	SERVICE CATEGORY	FABRICATION CATEGORY	CONSTRUCTION CATEGORY
ALL STRUCTURAL STEELWORK UNO	2	SC1	FC1	CC2

2 ALL MATERIALS, WORKMANSHIP, FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE RELEVANT AUSTRALIAN STANDARD NAMELY, AS 4100, AS/NZ 4600, AS/NZS 1554 AND AS/NZS HB62, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.

3 NOT ALL SECONDARY STEELWORK IS SHOWN ON THE STRUCTURAL DRAWINGS. THE CONTRACTOR SHALL PROVIDE ALL CLEATS AND DRILL ALL HOLES NECESSARY FOR FIXING STEEL, TIMBER AND OTHER ELEMENTS TO STEELWORK WHETHER OR NOT DETAILED ON THE STRUCTURAL DRAWINGS. IN ADDITION TRIMMING MEMBERS FOR VALLEYS, FREE EDGES, RIDGES, SERVICE PENETRATIONS ETC. SHALL BE PROVIDED, AT NO ADDITIONAL COST, TO ALL EDGES OF SHEETING AT AN ANGLE OF OTHER THAN 90 DEGREES TO THE PURLIN/GIRTS. REFER TO PURLIN MANUFACTURER FOR DETAILS. REFER TO THE ARCHITECTS AND SERVICES ENGINEERS DRAWINGS AND/OR SPECIFICATIONS FOR DETAILS OF SECONDARY STEELWORK REQUIRED.

4 SUBSTITUTIONS FOR STEEL SECTIONS SHOWN ON DRAWINGS SHALL NOT BE MADE WITHOUT THE WRITTEN APPROVAL OF THE WSP.

5 THE CONTRACTOR SHALL PROVIDE AND LEAVE IN PLACE, UNTIL PERMANENT BRACING ELEMENTS ARE CONSTRUCTED, SUCH TEMPORARY BRACING AS IS NECESSARY TO STABILIZE THE STRUCTURE DURING ERECTION. THE STRUCTURE HAS BEEN DESIGNED FOR THE FINAL IN SERVICE CONDITION ONLY. THE CONTRACTOR IS TO ENSURE THAT NO PART OF THE STRUCTURE IS OVERSTRESSED DURING CONSTRUCTION.

6 BEFORE STRUCTURAL FABRICATION IS COMMENCED THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE WSP FOR REVIEW AND APPROVAL. REVIEW DOES NOT INCLUDE CHECKING OF DIMENSIONS, OTHER THAN THOSE SHOWN ON STRUCTURAL DRAWINGS.

7 THE FABRICATION AND ERECTION OF THE STRUCTURAL STEELWORK SHALL BE SUPERVISED BY QUALIFIED PERSONNEL EXPERIENCED IN SUCH SUPERVISION TO ENSURE THAT ALL REQUIREMENTS OF THE DESIGN AND OH&S ARE MET. ERECTION OF STEELWORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF AS/NZS5131. DETAILS OF ERECTION SEQUENCE SHALL BE SUBMITTED TO THE WSP FOR REVIEW PRIOR TO COMMENCEMENT OF ERECTION. THE APPROVED ERECTION SEQUENCE SHALL NOT BE VARIED DURING THE ERECTION PROCESS WITHOUT THE APPROVAL OF THE WSP. A MINIMUM OF 20% OF THE STEELWORK IS TO BE INSPECTED.

8 UNLESS NOTED OTHERWISE, ALL STEEL SHALL BE:

8a -GRADE 300 PLUS FOR HOT ROLLED SECTIONS

8b -GRADE 300 PLUS FOR WELDED SECTIONS (WB, WC)

8c -GRADE 300 PLUS FOR MERCHANT BAR (ROUND, SQUARE AND FLAT)

8d -GRADE 250 FOR PLATES

8e -GRADE C350 FOR RHS, SHS AND CHS

9 COMMERCIAL GRADE BOLTS SHALL CONFORM TO AS/NZS 1111 AND AS 4100. HIGH STRENGTH STRUCTURAL BOLTS SHALL CONFORM TO AS/NZS 1252 AND AS 4100.

BOLT DESIGNATION:

- 4.6/S DENOTES COMMERCIAL BOLTS OF STRENGTH GRADE 4.6 TO AS1111 TIGHTENED TO A SNUG TIGHT CONDITION.
- 8.8/S DENOTES HIGH STRENGTH STRUCTURAL BOLTS OF GRADE 8.8 TO AS1252 TIGHTENED TO A SNUG TIGHT CONDITION.
- 8.8/TB DENOTES HIGH STRENGTH STRUCTURAL BOLTS OF GRADE 8.8 TO AS1252 FULLY TENSIONED TO AS4100 AS A BEARING JOINT. (SOME SLIP ALLOWED).
- 8.8/TF DENOTES HIGH STRENGTH STRUCTURAL BOLTS OF GRADE 8.8 TO AS1252 FULLY TENSIONED TO AS4100 AS A FRICTION JOINT

THE LENGTH OF ALL BOLTS SHALL BE SUCH THAT AT LEAST TWO FULL THREADS PROJECT BEYOND THE NUT AFTER TIGHTENING.

10 ALL BOLTS, NUTS AND WASHERS SHALL BE HOT DIP GALVANIZED. ALL BOLTS SHALL BE OF SUCH LENGTH THAT AT LEAST TWO FULL THREADS ARE EXPOSED BEYOND THE NUT AFTER THE NUT HAS BEEN TIGHTENED

11 ALL PURLIN AND GIRT BRIDGING, NUMBER OF AND SETOUT, IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. UNLESS OTHERWISE NOTED.

12 LOAD INDICATING WASHERS SHALL BE USED TO VERIFY TIGHTENING OF BOLTS IN TF AND TB CONNECTIONS. TORQUE WRENCHES SHALL NOT BE USED. A HARDENED WASHER SHALL BE USED UNDER THE BOLT HEAD OR NUT, WHICHEVER IS ROTATED. THE RE-USE OF FULLY TENSIONED BOLTS IS PROHIBITED

13 ALL DETAILS, GAUGE LINES ETC, WHERE NOT SPECIFICALLY SHOWN ARE TO BE IN ACCORDANCE WITH THE LATEST EDITION OF THE ASI DESIGN CONNECTION HANDBOOK AND ASI DESIGN GUIDES

14 ALL WELDING SHALL COMPLY WITH AS 1554 AND AS 4100.

15 ALL WELDS SHALL BE CATEGORY SP IN ACCORDANCE WITH AS 1554, WELDING CONSUMABLES SHALL BE:

WELDING CONSUMABLES SCHEDULE	
NOMINAL YIELD STRENGTH OF STEEL TO BE WELDED	**NOMINAL TENSILE STRENGTH OF WELD METAL, F_{uw}**
ALL GRADE ≤ 300 MPa	430 MPa
300 < GRADE ≤ 450 Mpa	430 MPa
QUENCH & TEMPERED STEEL TO GRADE 690 MPa	760 MPa

16 ALL BUTT WELDS SHALL BE FULL STRENGTH COMPLETE PENETRATION WELDS UNLESS NOTED OTHERWISE.

17 BEFORE COMMENCING FABRICATION SUBMIT DETAILS OF PROPOSED WELDING PROCEDURES TO WSP USING THE FORM IN APPENDIX C OF AS 1554.1. DO NOT COMMENCE FABRICATION UNTIL WELDING PROCEDURES HAVE BEEN ACCEPTED.

18 WELDING SHALL BE CARRIED OUT UNDER THE IMMEDIATE AND CONTINUOUS SUPERVISION OF A SUPERVISOR EMPLOYED BY THE FABRICATOR. THIS PERSON SHALL HAVE QUALIFICATIONS AS DESCRIBED IN AS 1554 SECTION 4.12.1 AND THESE QUALIFICATIONS SHALL BE SUBMITTED TO THE WSP ON REQUEST.

19 WELDING SHALL BE PERFORMED ONLY BY WELDERS WITH QUALIFICATIONS AS DESCRIBED IN AS 1554 SECTION 4.12.2.

20 OTHER THAN ANY SITE WELDS SHOWN ON THE SHOP DRAWINGS; DO NOT WELD ON SITE WITHOUT PRIOR APPROVAL FROM THE WSP. WHEREVER POSSIBLE, LOCATE SITE WELDS IN POSITIONS FOR DOWN HAND WELDING.

21 ALL BUTT WELDS, EXCEPT WHEN PRODUCED WITH THE AID OF BACKING MATERIAL, SHALL HAVE THE ROOT OR INITIAL LAYER GOUGED OR CHIPPED OUT ON THE BACK SIDE BEFORE WELDING IS STARTED FROM THAT SIDE. BUTT WELDS MADE WITH THE USE OF A BACKING STRIP SHALL HAVE THE WELD METAL FUSED WITH THE BACKING STRIP. ENDS OF BUTTS SHALL HAVE THE START AND STOP ZONES REMOVED BY THE USE OF RUN ON AND RUN OFF PLATES. SUCH PLATES SHALL BE REMOVED AFTER USE.

22 WELDING INSPECTIONS SHALL BE PERFORMED BY AN INDEPENDENT TESTING AUTHORITY AT THE CONTRACTORS EXPENSE. DEFAULT WELD TESTING SHALL BE AS FOLLOWS:

ALL TESTING SHALL BE IN ACCORDANCE WITH AS/NZS 1554.1

NON-DESTRUCTIVE WELD EXAMINATION (NDE) SCHEDULE				
WELD TYPE	VISUAL SCANNING	VISUAL EXAMINATION	MAGNETIC PARTICLE OR LIQUID PENETRANT	ULTRASONIC OR RADIOGRAPHY
GP FILLET WELD	100%	10%	2%	NIL
SP FILLET WELD	100%	25%	10%	10%
BUTT WELDS IN TRUSSES, BRACES OR PORTALS	100%	100%	10%	10%
BUTT WELDS IN OTHER MEMBERS	100%	50%	10%	2%
SITE BUTT WELDS	100%	100%	N/A	100%

23 AFTER REPAIRING A FAULTY WELD REVEALED BY NON -DESTRUCTIVE EXAMINATION, REPEAT THE SPECIFIED EXAMINATION AND FURNISH THE TESTING AUTHORITY'S REPORT TO WSP.

24 ALL ROLL FORMED PURLINS, GIRTS, BRIDGING AND ACCESSORIES SHALL BE LYSAGHT PURLINS & GIRTS, GRADE 450 MINIMUM COMPLYING WITH AS1397 AND AS4600 UNLESS NOTED OTHERWISE. ALTERNATIVE PRODUCTS MAY BE USED FOLLOWING SUBMISSION AND APPROVAL BY THE WSP OF SECTION PROPERTIES, PURLIN CAPACITY CALCULATIONS AND BRIDGING CAPACITY CALCULATIONS PRODUCED AND DETAILED FOR THE PROJECT. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS, WITH PARTICULAR REGARD TO BOLT LOCATIONS AND LAP LENGTHS. ALL HANGERS TO BE HUNG FROM PURLIN WEBS, NOT FLANGES.

25 ALL EXPOSED STEEL SHALL BE HOT DIPPED GALVANIZED OR OTHERWISE PAINT PROTECTED IN ACCORDANCE WITH AS2312 TO A MINIMUM COATING THICKNESS OF 85 MICRONS. ALL HOT DIP GALVANIZED MEMBERS SHALL BE PROVIDED WITH VENT AND DRAINAGE HOLES IN ACCORDANCE WITH THE GALVANIZER'S RECOMMENDATIONS AND TO THE ACCEPTANCE OF WSP.

26 GALVANIZED STEELWORK THAT IS SITE WELDED OR SUSTAINS ANY OTHER FORM OF SURFACE DAMAGE IS TO BE PREPARED TO AS1627.2 CLASS 3 AND PRIMED WITH 2 COATS OF GALVANITE (MANUFACTURED BY JOTUN) OR APPROVED EQUIVALENT TO MANUFACTURER'S SPECIFICATION.

27 WHERE MEMBERS SHOWN ON THE STRUCTURAL OR ARCHITECTURAL DRAWINGS ARE REQUIRED TO BE CURVED, BENT OR ROLLED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE METHODS REQUIRED TO ACHIEVE THE REQUIRED SHAPES WITHOUT LOCALIZED DISTORTION OF THE MEMBERS

28 CAMBERING OF MEMBERS SHALL BE AS NOTED ON THE DRAWINGS. WHERE NATURAL CAMBERS OCCUR IN MEMBERS AS A RESULT OF THE FABRICATION PROCESS THE MEMBER SHALL BE INSTALLED WITH CAMBER UPWARDS. MEMBERS INSTALLED WITH DOWNWARD CAMBERS SHALL BE LIABLE TO REJECTION, REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

29 UNLESS SHOWN OTHERWISE ON THE DRAWINGS, ALL CONNECTIONS SHALL BE IN ACCORDANCE WITH THE FOLLOWING MINIMUM REQUIREMENTS:

29i ALL WELDS SHALL BE 6MM CONTINUOUS FILLET WELDS ALL ROUND.

29ii ALL BOLTS SHALL BE M20 - 8.8/S, WITH A MINIMUM OF 2 BOLTS PER CONNECTION. PURLIN BOLTS TO BE M12 - 8.8/S WITH A MINIMUM OF 2 BOLTS PER PURLIN CLEAT.

29iii ALL CLEAT, STIFFENER AND GUSSET PLATES SHALL BE 10mm THICK.

29iv ALL CAP PLATES SHALL BE 12mm THICK.

29v ALL BASE PLATES SHALL BE 20mm THICK.

29vi ALL BOLT HOLES SHALL BE 2mm LARGER THAN THE NOMINATED BOLT DIAMETER UNLESS NOTED OTHERWISE, EXCEPT HOLES IN BASE PLATES WHICH SHALL BE 6mm LARGER THAN THE NOMINATED BOLT DIAMETER

30 COLUMNS AND MULLIONS SHALL HAVE THEIR BASE PLATES FULLY GROUTED WITH 40 MPa GROUT UNLESS NOTED OTHERWISE AFTER PLUMBING AND LEVELLING ON NEOPRENE PACKERS

31 CONTACT SURFACES OF TF CONNECTIONS SHALL BE LEFT UNPAINTED AND FREE OF SCALE UNLESS NOTED OTHERWISE. (INORGANIC ZINC SILICATE PAINT IS ACCEPTABLE IN 8.8/TF JOINTS)

32 CONCRETE ENCASED STEELWORK SHALL HAVE A MINIMUM OF 50mm OF CONCRETE ENCASEMENT REINFORCED WITH W5 WIRE WRAPPING AT 150 CTS OR FGW41 FABRIC UNLESS NOTED OTHERWISE

33 ALL STEELWORK BELOW GROUND OR FINISHED SURFACE LEVEL IS TO BE ENCASED IN 75mm MIN. CONCRETE ALL ROUND.

34 THE ENDS OF ALL TUBULAR MEMBERS ARE TO BE SEALED WITH NOMINAL THICKNESS PLATES AND CONTINUOUS FILLET WELDED UNLESS NOTED OTHERWISE.

35 STRUCTURAL STEELWORK SHALL HAVE THE FOLLOWING SURFACE TREATMENT IN ACCORDANCE WITH AS/NZS 2312 AND THE SPECIFICATIONS. SITE CORROSIVITY CATEGORY IN ACCORDANCE WITH AS4312 IS CLASSIFIED AS FOLLOWS : C4-HIGH, C3 MEDIUM, C2 LOW, C5 VERY HIGH. ALL STEELWORK SHALL BE PROTECTED TO SATISFY THE ABOVE SITE CORROSIVITY CATEGORY IN ACCORDANCE WITH AS4312, AND THE MEMBER'S EXPOSURE CONDITION. THE STEEL FABRICATOR IS TO PROVIDE A CERTIFICATE CONFIRMING THAT THE INSTALLED STEEWORK PROTECTIVE COATING COMPLIES IN ACCORDANCE WITH AS2312-GUIDE TO THE PROTECTION OF STRUCTURAL STEEL AGAINST ATMOSPHERIC CORROSION BY THE USE OF PROTECTIVE COATINGS-PART 1 (PAINT COATINGS) OR PART 2 (HOT DIP GALVANIZING) FOR THIS CORROSIVITY CATEGORY. WHERE FIXING NEW MEMBERS TO EXISTING STRUCTURE HAS DAMAGED THE EXISTING CORROSION PROTECTION, THE PROTECTION IS TO BE REINSTATED TO THE ABOVE CATEGORY (MINIMUM). MEMBERS TO BE ENCASED IN CONCRETE OR FIRE SPRAYED MUST NOT BE PAINTED AND MUST BE FREE OF SCALE.

36 ALL STEELWORK SHARP/ROUGH EDGES TO BE GROUND BACK TO A SMOOTH SURFACE.

37 FIRE PROTECTION TO STEELWORK IS TO BE SPECIFIED BY THE ARCHITECT, TO SATISFY THE REQUIREMENTS OF THE BUILDING SURVEYOR.

38 CFW: DENOTES CONTINUOUS FILLET WELD. FSBW or CPBW: DENOTES FULL STRENGTH / COMPLETE PENETRATION BUTT WELD. PPBW: DENOTES PARTIAL PENETRATION BUTT WELD.

MASONRY NOTES

1 ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS3700 EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.

2 THE DESIGN STRENGTH OF MASONRY SHALL BE IN ACCORDANCE WITH THE MASONRY SCHEDULE SHOWN ON THIS DRAWING. MORTAR ADMIXTURES SHALL NOT BE USED WITHOUT THE WRITTEN APPROVAL OF THE WSP.

3 BONDING OF MASONRY SHALL BE STRETCHER BOND UNLESS SHOWN OTHERWISE ON THE DRAWINGS OR SPECIFIED IN THE CONTRACT DOCUMENTS. INTERSECTING WALLS SHALL BE FULLY BONDED UNLESS SHOWN OTHERWISE ON THE DRAWINGS.

4 MORTAR JOINTS SHALL BE 10mm THICK AND HAVE A MAXIMUM TOOLED DEPTH OF 3mm UNLESS NOTED OTHERWISE. ALL PERPENDS AND BED JOINTS ARE TO BE FULLY FILLED WITH MORTAR.

5 NO CHASES SHALL BE CUT INTO LOAD-BEARING MASONRY WITHOUT THE APPROVAL OF THE WSP.

6 NON LOAD BEARING WALLS ARE TO BE KEPT 20mm CLEAR OF THE SOFFIT OF SLABS AND BEAMS. THE GAP IS TO BE FILLED WITH APPROVED COMPRESSIBLE FILLER AND SEALANT. FILLER AND SEALANT ARE TO PROVIDE APPROPRIATE FIRE RATING WHERE THESE PRODUCTS ARE INSTALLED IN FIRE RATED WALLS. REFER TO THE ARCHITECTURAL DRAWINGS FOR DETAILS OF FILLER AND SEALANT MATERIAL.

7 THE MAXIMUM LIFT OF MASONRY WALLS UNDER CONSTRUCTION SHALL NOT EXCEED 1200mm.

8 THE CONTRACTOR IS TO PROVIDE ADEQUATE PROPPING OF WALLS UNDER CONSTRUCTION IN ACCORDANCE WITH AS 3828

9 CLEAN-OUT HOLES SHALL BE PROVIDED AT THE BASE OF ALL CORES OR CAVITIES WHICH ARE TO BE GROUTED OR FILLED.

10 ALL MORTAR OBSTRUCTIONS IN CORES OR CAVITIES SHALL BE REMOVED PRIOR TO GROUTING. THIS MAY BE DONE USING A ROD FROM THE TOP OF THE WALL. ALL MORTAR THUS REMOVED SHALL BE CLEANED FROM THE BOTTOM OF THE WALL BEFORE THE CLEAN-OUT HOLES ARE CLOSED FOR GROUTING.

11 REINFORCING STEEL SHALL BE SECURELY FIXED IN POSITION BEFORE GROUTING

12 CORES AND CAVITIES SHALL BE FILLED IN 1200mm MAXIMUM LIFTS. GROUTING OF CAVITIES BETWEEN MASONRY SKINS IS NOT TO TAKE PLACE UNTIL 3 DAYS AFTER MASONRY HAS BEEN LAID.

13 GROUT SHALL BE THOROUGHLY COMPACTED USING A PLAIN BAR.

14 WALL TIES SHALL BE PROVIDED AT 600mm MAXIMUM CENTRES HORIZONTALLY AND VERTICALLY AND SHALL BE IN ACCORDANCE WITH AS 2699 AND AS 3700 UNLESS NOTED OTHERWISE ON THE DRAWINGS.

15 CONTROL JOINTS SHALL BE PLACED IN ALL MASONRY WALLS AT 6000mm MAXIMUM CENTRES HORIZONTALLY AND 4000mm MAXIMUM CENTRES VERTICALLY UNLESS NOTED OTHERWISE ON THE DRAWINGS.

16 REFER TO THE ARCHITECT'S DRAWINGS FOR SPECIFIC LOCATIONS. CONTROL JOINTS SHALL ALSO BE PLACED ABOVE ONE CORNER OF ALL DOOR AND WINDOW OPENINGS UNLESS NOTED OTHERWISE

17 MORTAR DROPPINGS OR OTHER HARD MATERIALS SHALL BE KEPT CLEAR OF ALL CONTROL JOINTS. PLACE POLYSTYRENE OR SIMILAR IN ALL VERTICAL JOINTS TO AVOID MORTAR DROPPINGS FILLING THE JOINTS DURING CONSTRUCTION

18 WALL FINISHES MUST BE JOINTED AT THE SAME LOCATIONS AS THE MASONRY CONTROL JOINTS TO AVOID UNCONTROLLED CRACKING IN WALL FINISHES.

19 ALL MASONRY IS TO BE FIXED TO ADJOINING CONCRETE AND/OR STEEL SUPPORTING MEMBERS BY MFA 3/3 MASONRY ANCHORS (OR AN APPROVED EQUIVALENT) AT 600 MAXIMUM CENTRES VERTICALLY AND MFA 4/M MASONRY ANCHORS (OR AN APPROVED EQUIVALENT) AT 1000 MAXIMUM CENTRES HORIZONTALLY UNLESS OTHERWISE NOTED ON THE DRAWINGS.

20 MASONRY ANCHORS ARE TO BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS.

21 SOLID BRICKS, SOLID BLOCKS OR CORE FILLED HOLLOW BLOCKS ARE TO BE USED AT ALL MASONRY ANCHOR LOCATIONS.

MASONRY SCHEDULE				
ELEMENT	CHARACTERISTIC UNCONFINED COMPRESSIVE STRENGTH (MPa)	MORTAR MIX		
		CEMENT	LIME	SAND
NON-LOAD BEARING BLOCKWORK WALL	15	1	1	6
LOAD BEARING BLOCKWORK WALL	15	1	0.2	3

22 MASONRY MUST NOT BE BUILT ON CONCRETE SLABS OR BEAMS UNTIL FORMWORK SUPPORTING SAME HAS BEEN REMOVED.

<u>BED JOINT REINFORCEMENT</u>

GALVANIZED WOVEN WIRE MESH OR WELDED WIRE TO AS 2975

LOCATION : ALL BLOCKWORK

WIDTH : EQUAL TO THE WIDTH OF THE SOLID WALL, LESS THE 15mm COVER REQUIRED BY AS 3700, CLAUSE 5.9.3 FROM EACH SURFACE OF THE MORTAR JOINT.

PLACEMENT : IN THE FIRST, SECOND AND THIRD BED JOINT ABOVE FLOOR LEVEL.
AT VERTICAL SPACING NOT EXCEEDING 600mm.
IN THE FIRST, SECOND AND THIRD BED JOINT FROM THE TOP OF THE WALL.
IN THE FIRST TWO BED JOINTS ABOVE AND BELOW OPENINGS, OR ABOVE AND BELOW HEAD AND SILL FLASHING TO OPENINGS.

INSTALLATION : LAP REINFORCEMENT 450mm AT SPLICES, FOLD AND BEND AT CORNERS SO THAT THE LONGITUDINAL WIRES ARE CONTINUOUS. TERMINATE 200mm OF CONTROL JOINTS.

<u>TYPICAL REINFORCEMENT BLOCKWORK WALL SPECIFICATIONS :</u>

BLOCKS : F'uc = 15MPa

MORTAR CEMENT : LIME ½ : SAND ¼

GROUT : f'c = 20MPa CEMENT CONTENT NOT LESS THAN $300kg/m^3$, 10mm ROUNDED GRAVEL AGGREGATE.

REINFORCEMENT : Fsy = 500MPa

<u>REINFORCEMENT TO EXTERNAL WALLS SHALL BE GALVANIZED.</u>

SPECIALTY PRODUCTS USED IN DESIGN

1 CERTAIN PRODUCTS HAVE BEEN SPECIFIED IN THE DESIGN WHICH ARE SPECIALTY OR PROPRIETARY PRODUCTS. THESE PRODUCTS HAVE RATED CAPACITIES AND CHARACTERISTICS WARRANTED BY THE MANUFACTURER. THESE PRODUCTS HAVE BEEN SELECTED AND SPECIFIED BASED UPON THE MANUFACTURERS REPRESENTATIONS AND WSP SHALL NOT BECOME GUARANTORS OF THE PRODUCT. SUCH PRODUCTS SHALL BE INSTALLED IN STRICT CONFORMANCE WITH THE MANUFACTURERS RECOMMENDATIONS. ALTERNATE SYSTEMS MAY BE ACCEPTABLE IF THEY PROVIDE EQUAL SAFE WORKING LOADS AND A WRITTEN REQUEST IS ACCOMPANIED WITH ENGINEERED DESIGN DATA FOR THE ALTERNATE SYSTEM.

DRAWING CREATED IN REVIT.

REV	DATE	BY	DESCRIPTION	CHK	APP
P6	09.06.2025	J.G.	TCCS DESIGN ACCEPTANCE	A.S./A.T.	A.T.
P5	24.04.2025	J.G.	100% DOCUMENT READINESS	A.S./A.T.	A.T.
P4	08.04.2025	J.G.	100% DOCUMENT READINESS	A.S./A.T.	A.T.
P3	31.01.2025	J.G./J.M.	DOCUMENT READNESS - 100%	A.S./A.T.	A.T.
P2	07.11.2024	J.G.	DOCUMENT READINESS 75%	A.T.	A.T.
P1	02.10.2024	J.G.	FINAL SKETCH PLAN	A.T.	A.T.

DRAWING STATUS: FOR APPROVAL

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CLIENT: ACT CITY RENEWAL AUTHORITY

ARCHITECT: OCULUS

PROJECT: DICKSON SHOPS AND STREETSCAPE

TITLE: STRUCTURES GENERAL NOTES - SHEET 2

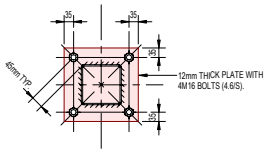
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N.T.S.	B.A. / A.S.	A.T.
PROJECT NUMBER:	DRAWN:	DATE:
PS208025	J.G. / J.M.	SEPT. 2024

DRAWING No: ST_01-002 REV: P6

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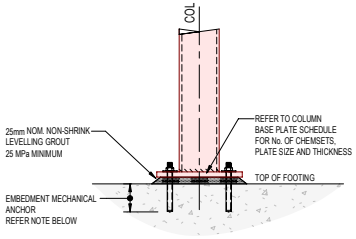
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SHS

TYPICAL COLUMN BASE PLATE DETAILS

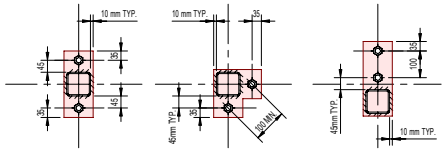
NOTE:
1. ALL BOLT HOLES TO BE 5mm OVERSIZED
2. ALL WELDS SHALL BE 6 CFW U.N.O.
3. 100mm BOLT THREAD PROJECTION



CHEMSET FIX)

4M16 CHEMICAL ANCHORS
DRILL AND EPOXY WITH
CHEMSET REO 502
100mm MIN. EMBEDMENT, BASEPLATE CENTERED ON FOOTING BELOW
INSTALLED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS

TYPICAL COLUMN (SHS/RHS) HD BOLTS DETAILS (CHEMSET FIX)



SHS COLUMN - WITHIN WALLS | SHS COLUMN - WITHIN WALLS | SHS COLUMN - WITHIN WALLS

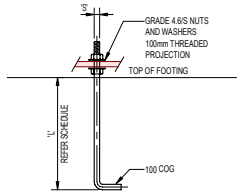


SHS / CHS

COLUMN BASE PLATE SCHEDULE

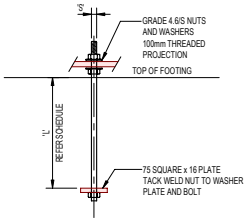
NOTE : WELDS 6 CFW, BOLTS 4.6/S HD U.N.O

BEAM SIZE	D	B	t	P	g	BOLT No.	BOLT DIA.	HOLE DIA.	MAY BE CUT FROM FLAT BAR
150 SHS OR 140 CHS	180	310	20	-	230	2	20	26	*
125 SHS OR 114 CHS	150	280	16	-	200	2	20	26	*
100 SHS OR 100 CHS	130	260	12	-	180	2	20	26	*
89 SHS/CHS	110	260	12	-	180	2	20	26	*
75 SHS/CHS	110	240	12	-	160	2	20	26	*



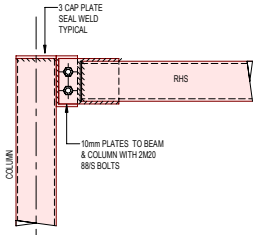
TYPICAL GRADE 4.6/S HD BOLT DETAIL

'S' BOLT SIZE	'L' EMBEDMENT
M16	400
M20	500
M24	600
M30	750
M36	900

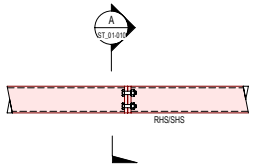


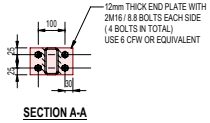
TYPICAL GRADE 4.6/S HD BOLT DETAIL

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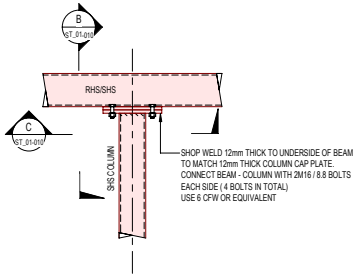
TYPICAL STEEL BEAM TO STEEL COLUMN CONNECTIONS



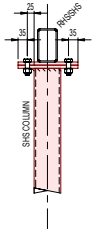


SECTION A-A

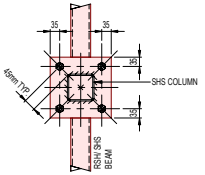
END PLATE MOMENT CONNECTION RHS/SHS BEAM - RHS / SHS BEAM



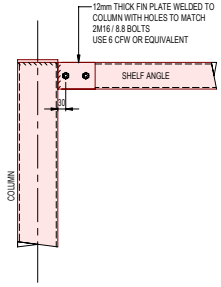
END PLATE CONNECTION RHS/ SHS BEAM TO RHS/SHS COLUMN



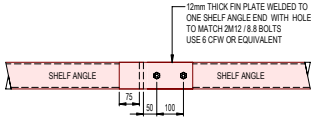
SECTION B-B



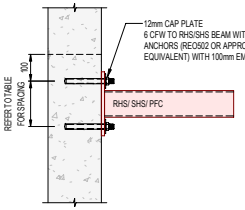
SECTION C-C



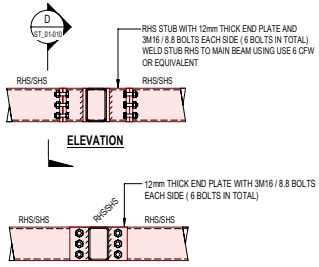
FIN PLATE CONNECTION - SHELF ANGLE TO STEEL COLUMN



FIN PLATE CONNECTION - SHELF ANGLE TO SHELF ANGLE



STEEL BEAM TO CONCRETE WALL CONNECTION DETAIL



SECTION D-D

END PLATE CONNECTION RHS/ SHS BEAM TO RHS/SHS BEAM

REV	DATE	BY	DESCRIPTION	CHK	APP
P5	09.06.2025	J.G.	TCCS DESIGN ACCEPTANCE	A.S./A.T.	A.T.
P4	24.04.2025	J.G.	100% DOCUMENT READINESS	A.S./A.T.	A.T.
P3	08.04.2025	J.G.	100% DOCUMENT READINESS	A.S./A.T.	A.T.
P2	31.01.2025	J.G./J.M.	DOCUMENT READINESS - 100%	A.S./A.T.	A.T.
P1	07.11.2024	J.G.	DOCUMENT READINESS 75%	A.T.	A.T.

DRAWING STATUS: FOR APPROVAL

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ARCHITECT: OCULUS

PROJECT: DICKSON SHOPS AND STREETSCAPE

TITLE: STRUCTURES
TYPICAL STEELWORK DETAILS

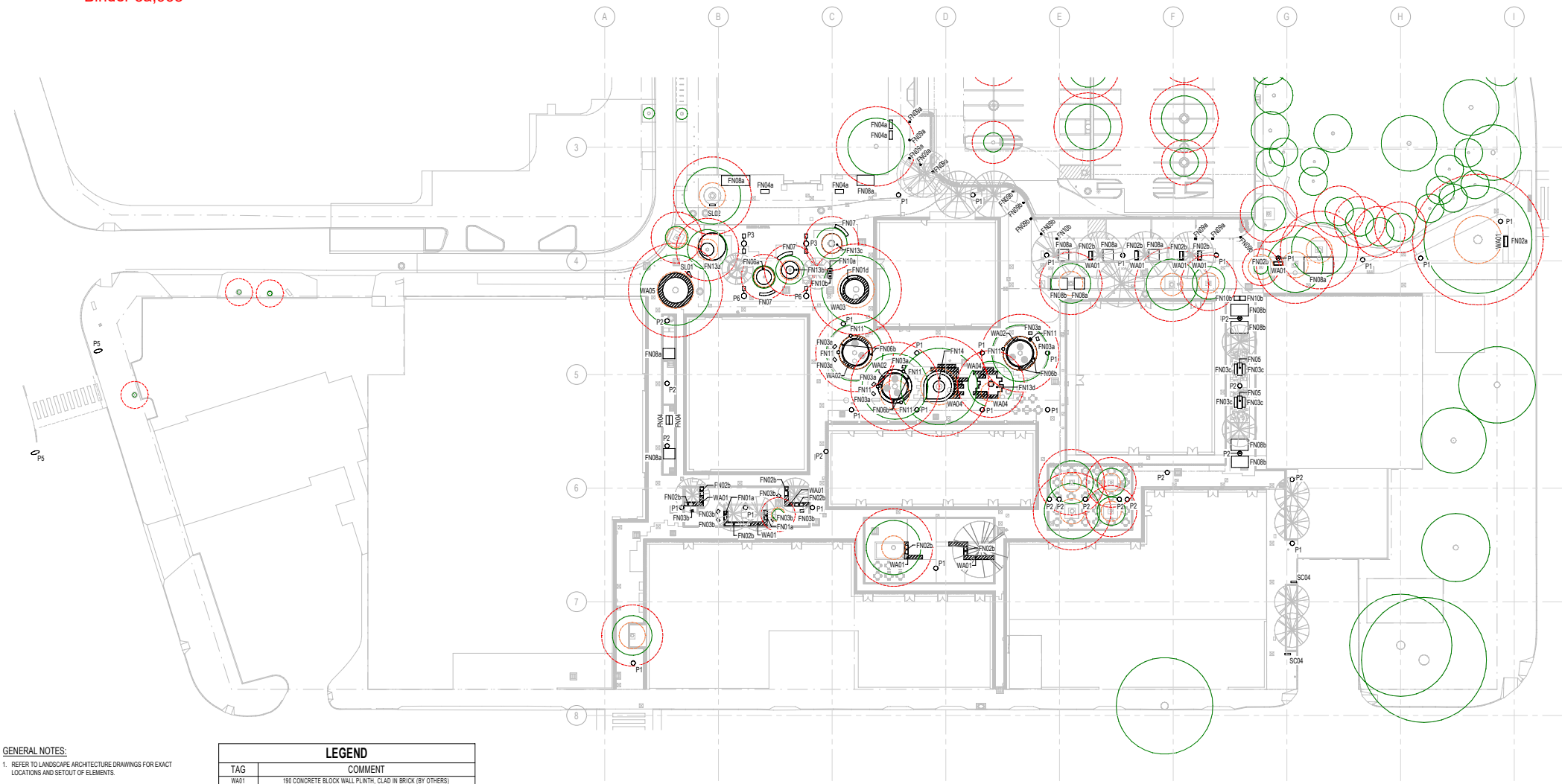
SCALE @ A1:	CHECKED:	APPROVED:
AS SHOWN	B.A. / A.S.	A.T.
PROJECT NUMBER:	DRAWN:	DATE:
PS208025	J.G. / J.M.	NOV. 2024
DRAWING No: ST_01-010		REV: P5

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DRAWING CREATED IN REVIT.

Binder 3a,968

DO NOT SCALE



LANDSCAPE GENERAL ARRANGEMENT PLAN

SCALE 1 : 350

GENERAL NOTES:

1. REFER TO LANDSCAPE ARCHITECTURE DRAWINGS FOR EXACT LOCATIONS AND SETOUT OF ELEMENTS.
2. REFER TO LANDSCAPE ARCHITECTURE DRAWINGS FOR BOLLARD LOCATIONS. TYPICAL FOOTING DETAIL PROVIDED ON ST_01-120.
3. THE CONTRACTOR SHALL PROVIDE ALL LOCATIONS, DEPTHS & SETTING OUT OF EXISTING SERVICES AND PROVIDE INFORMATION TO STRUCTURAL ENGINEER FOR FINALIZATION OF FOUNDATION DESIGN.
4. THE CONTRACTOR WILL BE RESPONSIBLE FOR PROVING & PROTECTING ALL EXISTING IN-GROUND & ABOVE GROUND SERVICES. THE CONTRACTOR WILL MAKE SUITABLE ALLOWANCES FOR PERMANENT & TEMPORARY SERVICES DIVERSION IN CONJUNCTION WITH ADVICE FROM CIVIL & SERVICES ENGINEERS. ANY EXISTING SERVICES SHOWN ON STRUCTURAL DRAWINGS SHALL BE TAKEN AS INDICATIVE.
5. INDICATIVE TREE PROTECTION ZONES SHOWN ON PLAN HAVE BEEN PROVIDED BY THE LANDSCAPE ARCHITECT. REFER TO TREE PROTECTION PLAN FOR EXACT LOCATIONS.
6. EXCAVATION IN THE ROOT ZONE SHALL BE AVOIDED WHERE POSSIBLE. ARBORIST TO ADVISE CONTRACTOR ON ROOT PROTECTION THROUGH CONSTRUCTION.
7. ANCHORAGE BETWEEN PREFABRICATED LANDSCAPE ELEMENTS AND THE FOOTINGS ARE BY THE SUPPLIER.

LEGEND

TAG	COMMENT
WA01	190 CONCRETE BLOCK WALL PLINTH, CLAD IN BRICK (BY OTHERS)
WA02	200 REINFORCED CONCRETE RETAINING WALL
WA03	CONVENTIONAL CLAY BRICK STACKED WALL
WA04	150 CONCRETE BLOCK WALL PLINTH, CLAD IN BRICK (BY OTHERS)
FN01 SERIES	PREFABRICATED BENCH SEAT (BY OTHERS) MOUNTED TO PLINTH BELOW
FN02 SERIES	PREFABRICATED BENCH SEAT (BY OTHERS) MOUNTED TO PLINTH BELOW
FN03 SERIES	PREFABRICATED FREESTANDING BENCH (BY OTHERS) MOUNTED TO FOOTING
FN04 SERIES	PREFABRICATED FREESTANDING BENCH (BY OTHERS) MOUNTED TO FOOTING
FN05 SERIES	PREFABRICATED FREESTANDING BENCH (BY OTHERS) MOUNTED TO FOOTING
FN06 SERIES	PREFABRICATED CURVED BENCH SEAT BY OTHERS MOUNTED TO PLINTH BELOW
FN07 SERIES	PREFABRICATED CURVED FREESTANDING SEAT (BY OTHERS) MOUNTED TO FOOTING
FN08 SERIES	PREFABRICATED BICYCLE RAIL (BY OTHERS) MOUNTED TO FOOTING
FN09 SERIES	PREFABRICATED BOLLARD (BY OTHERS) MOUNTED TO FOOTING
FN10 SERIES	PREFABRICATED BIN (BY OTHERS MOUNTED TO FOOTING
FN11	CIRCULAR TABLE
FN13 SERIES	TIMBER DECKS - REFER TO ST_01-102 TO 104 FOR DETAILS.
FN14	TWO TIERED TIMBER DECK - REFER TO ST_01-101 FOR DETAILS.
FN15	PRECAST CONCRETE BENCH (BY OTHERS)
P1	LIGHT POSTS. REFER TO TYPICAL FOOTING DETAILS
P2	LIGHT POSTS. REFER TO TYPICAL FOOTING DETAILS
P3	LIGHT POSTS. REFER TO TYPICAL FOOTING DETAILS
P5	LIGHT POSTS. REFER TO TYPICAL FOOTING DETAILS
P6	LIGHT POSTS. REFER TO TYPICAL FOOTING DETAILS
SL01	RELOCATED COMMUNITY NOTICEBOARD
SL02	RELOCATED HERITAGE SIGN
SC04	RELOCATED SCULPTURE

REV	DATE	BY	DESCRIPTION	CHK	APP
P8	09.06.2025	J.G.	TCCS DESIGN ACCEPTANCE	A.S./A.T.	A.T.
P7	24.04.2025	J.G.	100% DOCUMENT READINESS	A.S./A.T.	A.T.
P6	08.04.2025	J.G.	100% DOCUMENT READINESS	A.S./A.T.	A.T.
P5	07.02.2025	J.G.	100% DOCUMENT READINESS	A.S./A.T.	A.T.
P4	31.01.2025	J.G./J.M.	DOCUMENT READINESS - 100%	A.S./A.T.	A.T.
P3	07.11.2024	J.G.	DOCUMENT READINESS 75%	A.T.	A.T.
P2	02.10.2024	J.G.	FINAL SKETCH PLAN	A.T.	A.T.
P1	10.09.2024	J.G.	ISSUED FOR 50% DRAFT COORDINATION	A.T.	A.T.

DRAWING STATUS: FOR APPROVAL

wsp
Level 2, 121 Marcus Clarke street, PO Box 1551, ACT 2601, Australia
Tel: +61 2 6201 9600 Fax: +61 2 6201 9666
http://www.wsp.com

CLIENT: ACT CITY RENEWAL AUTHORITY

ARCHITECT: OCULUS

PROJECT: DICKSON SHOPS AND STREETSCAPE

TITLE: STRUCTURES
LANDSCAPE GENERAL ARRANGEMENT PLAN

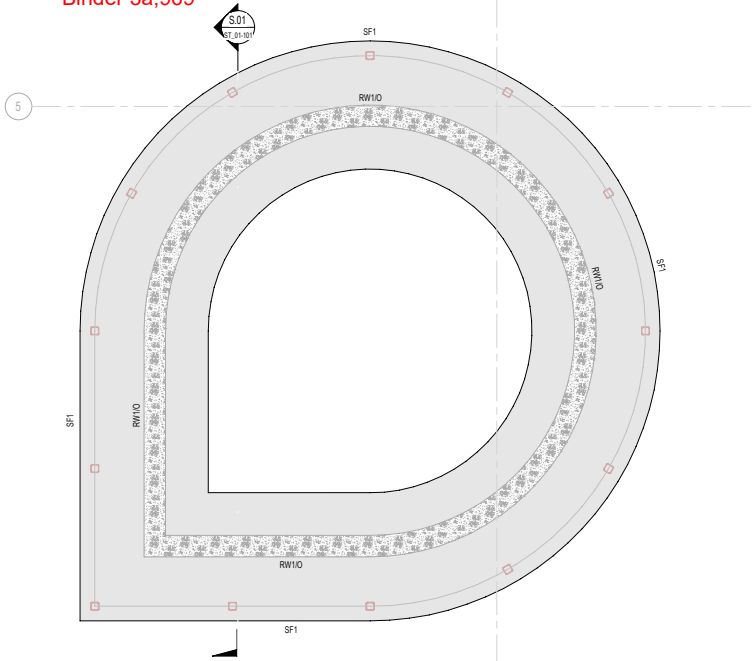
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1:350	B.A. / A.S.	A.T.
PROJECT NUMBER:	DRAWN:	DATE:
PS208025	J.G. / J.M.	SEPT. 2024
DRAWING No:		REV:
ST_01-100		P8

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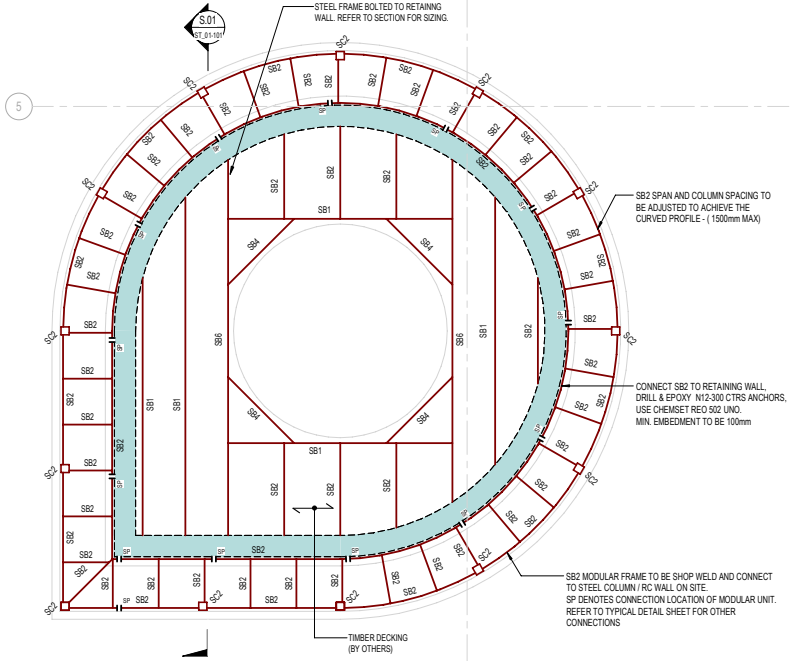
DRAWING CREATED IN REVIT.

Binder 3a,969

DO NOT SCALE



FN14 - FOUNDATION PLAN
SCALE 1 : 25



FN14 - STEEL FRAMING PLAN
SCALE 1 : 25

GENERAL NOTES:

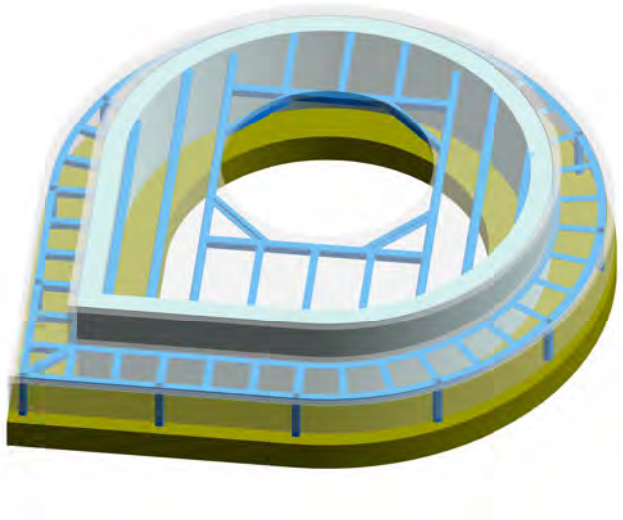
1. FOR FLOOR LAYOUT, HOBS, SETDOWNS AND FALLS REFER TO THE ARCHITECTS DRAWINGS.
2. ALL NOMINATED SLAB DEPTHS ARE MINIMUM. UNO
3. ALL FOOTING ELEMENTS TO BE fc=32MPa.
4. BASED ON GEOTECHNICAL REPORT DONE BY FORTIFY GEOTECH ISSUED ON 23 JAN 2025, ALL FOOTINGS SHOULD BE FOUNDED ON THE ALLUVIAL SOIL WITH A Min ALLOWABLE BEARING PRESSURE OF 125kPa. THE DEPTH OF THIS FOUNDING STRATUM VARIES.
5. GROUND PREPARATION / FILL SHOULD BE CARRIED OUT IN ACCORDANCE WITH GEOTECHNICAL REPORT.
6. THE CONTRACTOR SHALL PROVIDE ALL LOCATIONS, DEPTHS & SETTING OUT OF EXISTING SERVICES AND PROVIDE INFORMATION TO STRUCTURAL ENGINEER FOR CHECKING BEFORE DIGGING OUT FOUNDATION.
7. ALLOW FOR A BLINDING LAYER UNDER THE FOOTING TO REACH THE FOUNDING LAYER WITH AN ALLOWABLE BEARING PRESSURE OF 125 kPa.
8. CONTRACTOR TO ENGAGE A GEOTECHNICAL ENGINEER TO CONFIRM ALL ALLOWABLE BEARING PRESSURES UNDER FOOTINGS ARE ACHIEVED.
9. A COHESION OF 50 DEGREES AND INTERNAL FRICTION OF 25 DEGREES HAVE BEEN ASSUMED FOR DESIGN OF LIGHT POLE BORED PIERS.

STEELWORK NOTES:

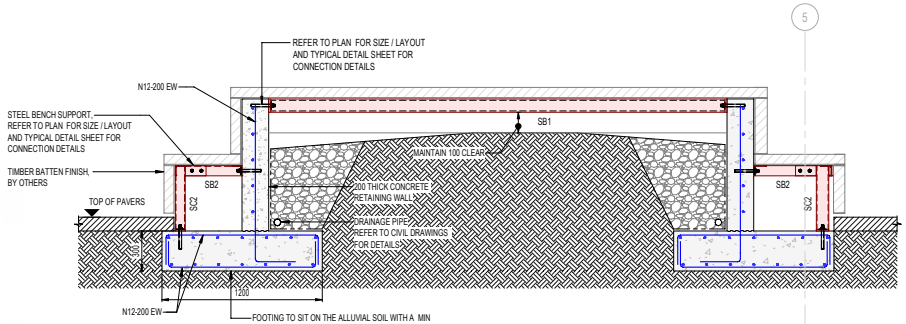
1. REFER TO ARCHITECTURAL DRAWINGS FOR ROOF LAYOUT, AND FALLS.
2. REFER TO SCHEDULE FOR STEEL MEMBER, PURLIN SIZES AND CENTRES.
3. ALL MATERIALS, FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE RELEVANT AUSTRALIAN STANDARDS.
4. THE LOCATION OF STEEL STRUCTURAL SHOWN ON PLAN IS INDICATIVE. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION / SETOUT.
5. SUBSTITUTIONS FOR STEEL SECTIONS SHOWN ON DRAWINGS SHALL NOT BE MADE WITHOUT THE WRITTEN APPROVAL OF WSP STRUCTURAL ENGINEER.
6. NOT ALL SECONDARY STEELWORK IS SHOWN ON THIS STRUCTURAL DRAWING. THE CONTRACTOR SHALL PROVIDE ALL CLEATS AND DRILL ALL HOLES NECESSARY FOR FIXING STEEL AT NO ADDITIONAL COST.
7. THE CONTRACTOR SHALL PROVIDE TRIMMING MEMBERS FOR FREE EDGES, SERVICE PENETRATIONS ETC AT NO ADDITIONAL COST.
8. THE STRUCTURE HAS BEEN DESIGNED FOR THE FINAL IN SERVICE CONDITION ONLY. THE CONTRACTOR IS TO ENSURE THAT NO PART OF THE STRUCTURE IS OVERSTRESSED DURING CONSTRUCTION.
9. THE CONTRACTOR SHALL PROVIDE AND LEAVE IN PLACE TEMPORARY BRACING, UNTIL PERMANENT BRACING ELEMENTS ARE CONSTRUCTED. SUCH TEMPORARY BRACING AS IS NECESSARY TO STABILIZE THE STRUCTURE DURING ERECTION.
10. ALL STEEL TO BE HOT DIP GALVANISED OR PAINT PROTECED IN ACCORDANCE WITH AS2312.
11. SP DENOTES CONNECTION LOCATION OF MODULAR UNIT. REFER TO DETAIL SHEET

PLATFORM DESIGN LOADS:

DEAD LOAD : 0.5 kPa
LIVE LOAD : 5.0 kPa



3D VIEW - F14
SCALE



SECTION S.01 (ST_01-101)
SCALE 1 : 20

PAD FOOTING SCHEDULE (150kPa)

MARK	DIMENSIONS LENGTH	WIDTH	DEPTH	REINFORCEMENT	COMMENTS
PF1	700	700	350	N12-200 EW/ BTM	PAD FOOTING
PF2	450	450	350	N12-200 EW/ BTM	PAD FOOTING
PF3	1000	700	350	N12-200 EW/ BTM	PAD FOOTING

STEEL COLUMN SCHEDULE

MARK	STRUCTURAL SIZE	COMMENTS
SC1	89x5.0 SHS	STEEL POST
SC2	76x5.0 SHS	STEEL POST

STEEL FRAMING SCHEDULE

MARK	STRUCTURAL SIZE	COMMENTS
J1	75x6 EA	SLATE JOIST AT 450 MAX. CTS.
SB1	89x5.0 SHS	STEEL BEAM AT 450 MAX. CTS.
SB2	76x6 EA	INTERMEDIATE MEMBERS
SB3	100x5.0 SHS	STEEL BEAM
SB4	C100-15	STEEL EDGE FRAMING
SB6	125x75x6.0 RHS	STEEL BEAM

STRUCTURAL WALL SCHEDULE

MARK	THICKNESS	CONCRETE GRADE	REINFORCEMENT	COMMENTS
RW1	200	32 MPa	N12-200 - VERTICAL N12-200 - HORIZONTAL	INSITU CONCRETE WALL

STRIP FOOTING SCHEDULE (BC = 125kPa)

MARK	DIMENSIONS WIDTH	DEPTH	CONCRETE GRADE	REINFORCEMENT	COMMENTS
SF1	1200	300	32 MPa	N12-200 EW -TOP & BTM	STRIP FOOTING

REV	DATE	BY	DESCRIPTION	CHK	APP
P6	09.06.2025	J.G.	TCCS DESIGN ACCEPTANCE	A.S./A.T.	A.T.
P5	24.04.2025	J.G.	100% DOCUMENT READINESS	A.S./A.T.	A.T.
P4	08.04.2025	J.G.	100% DOCUMENT READINESS	A.S./A.T.	A.T.
P3	31.01.2025	J.G./J.M.	DOCUMENT READINESS - 100%	A.S./A.T.	A.T.
P2	07.11.2024	J.G.	DOCUMENT READINESS 75%	A.T.	A.T.
P1	02.10.2024	J.G.	FINAL SKETCH PLAN	A.T.	A.T.

DRAWING STATUS: FOR APPROVAL

wsp
Level 2, 121 Marcus Clarke street, PO Box 1551, ACT 2601, Australia
Tel: +61 2 6201 9600 Fax: +61 2 6201 9666
http://www.wsp.com

CLIENT: ACT CITY RENEWAL AUTHORITY
ARCHITECT: OCULUS

PROJECT: DICKSON SHOPS AND STREETSCAPE
TITLE: STRUCTURES
TIMBER DECK PLANS, SECTIONS AND DETAILS - SHEET 1

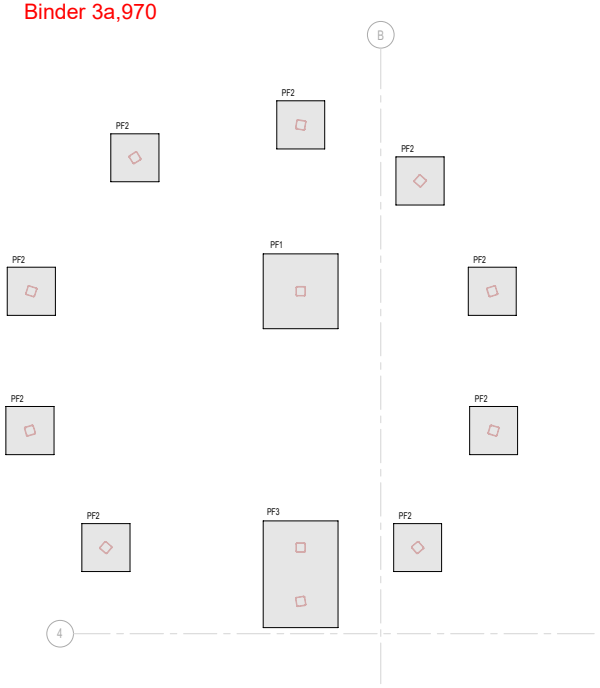
SCALE @ A1:	CHECKED:	APPROVED:
AS SHOWN	B.A. / A.S.	A.T.
PROJECT NUMBER:	DRAWN:	DATE:
PS208025	J.G. / J.M.	SEPT. 2024
DRAWING No: ST_01-101		REV: P6

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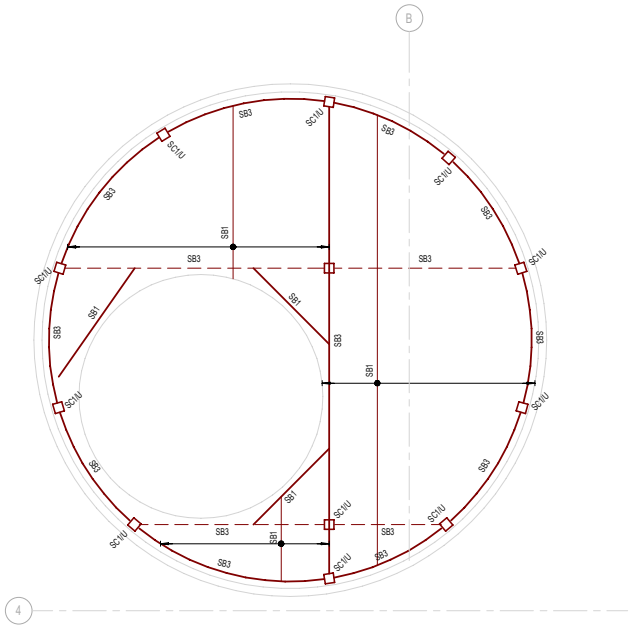
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Binder 3a,970

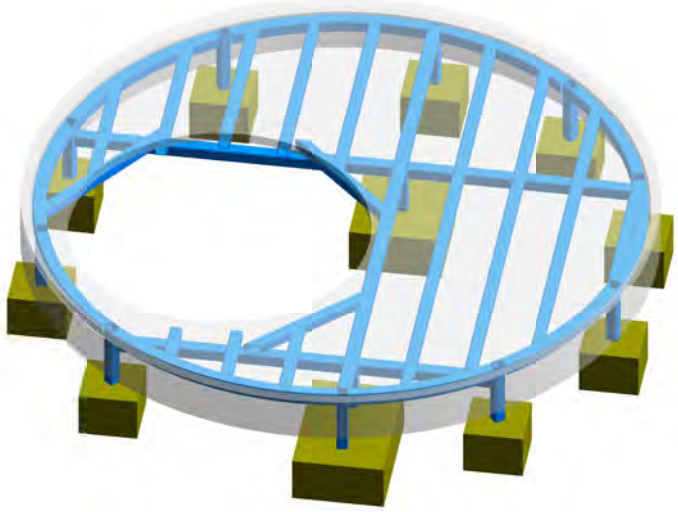
DO NOT SCALE



FN13a - FOUNDATION PLAN
SCALE 1 : 25



FN13a - STEEL FRAMING PLAN
SCALE 1 : 25



3D VIEW - F13a
SCALE

GENERAL NOTES:

1. FOR FLOOR LAYOUT, HOBS, SETDOWNS AND FALLS REFER TO THE ARCHITECTS DRAWINGS.
2. ALL NOMINATED SLAB DEPTHS ARE MINIMUM. UNO
3. ALL FOOTING ELEMENTS TO BE fc=32MPa.
4. BASED ON GEOTECHNICAL REPORT DONE BY FORTIFY GEOTECH ISSUED ON 23 JAN 2025, ALL FOOTINGS SHOULD BE FOUNDED ON THE ALLUVIAL SOIL WITH A Min ALLOWABLE BEARING PRESSURE OF 125kPa. THE DEPTH OF THIS FOUNDING STRATUM VARIES.
5. GROUND PREPARATION / FILL SHOULD BE CARRIED OUT IN ACCORDANCE WITH GEOTECHNICAL REPORT.
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8. CONTRACTOR TO ENGAGE A GEOTECHNICAL ENGINEER TO CONFIRM ALL ALLOWABLE BEARING PRESSURES UNDER FOOTINGS ARE ACHIEVED.
9. A COHESION OF 50 DEGREES AND INTERNAL FRICTION OF 25 DEGREES HAVE BEEN ASSUMED FOR DESIGN OF LIGHT POLE BORED PIERS.

STEELWORK NOTES:

1. REFER TO ARCHITECTURAL DRAWINGS FOR ROOF LAYOUT, AND FALLS.
2. REFER TO SCHEDULE FOR STEEL MEMBER, PURLIN SIZES AND CENTRES.
3. ALL MATERIALS, FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE RELEVANT AUSTRALIAN STANDARDS.
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10. ALL STEEL TO BE HOT DIP GALVANISED OR PAINT PROTECED IN ACCORDANCE WITH AS2312.
11. SP DENOTES CONNECTION LOCATION OF MODULAR UNIT. REFER TO DETAIL SHEET

PLATFORM DESIGN LOADS:

DEAD LOAD : 0.5 kPa
LIVE LOAD : 5.0 kPa

PAD FOOTING SCHEDULE (150kPa)

MARK	DIMENSIONS			REINFORCEMENT	COMMENTS
	LENGTH	WIDTH	DEPTH		
PF1	700	700	350	N12-200 EW/ BTM	PAD FOOTING
PF2	450	450	350	N12-200 EW/ BTM	PAD FOOTING
PF3	1000	700	350	N12-200 EW/ BTM	PAD FOOTING

STEEL COLUMN SCHEDULE

MARK	STRUCTURAL SIZE	COMMENTS
SC1	89x5.0 SHS	STEEL POST
SC2	76x5.0 SHS	STEEL POST

STEEL FRAMING SCHEDULE

MARK	STRUCTURAL SIZE	COMMENTS
J1	75x6 EA	SLATE JOIST AT 450 MAX. CTS.
SB1	89x5.0 SHS	STEEL BEAM AT 450 MAX. CTS.
SB2	76x6 EA	INTERMEDIATE MEMBERS
SB3	100x5.0 SHS	STEEL BEAM
SB4	C100-15	STEEL EDGE FRAMING
SB6	125x75x6.0 RHS	STEEL BEAM

REV	DATE	BY	DESCRIPTION	CHK	APP
P6	09.06.2025	J.G.	TCCS DESIGN ACCEPTANCE	A.S./A.T.	A.T.
P5	24.04.2025	J.G.	100% DOCUMENT READINESS	A.S./A.T.	A.T.
P4	08.04.2025	J.G.	100% DOCUMENT READINESS	A.S./A.T.	A.T.
P3	31.01.2025	J.G./J.M.	DOCUMENT READINESS - 100%	A.S./A.T.	A.T.
P2	07.11.2024	J.G.	DOCUMENT READINESS 75%	A.T.	A.T.
P1	02.10.2024	J.G.	FINAL SKETCH PLAN	A.T.	A.T.

DRAWING STATUS: FOR APPROVAL

wsp
Level 2, 121 Marcus Clarke street, PO Box 1551, ACT 2601, Australia
Tel: +61 2 6201 9600 Fax: +61 2 6201 9666
http://www.wsp.com

CLIENT: ACT CITY RENEWAL AUTHORITY
ARCHITECT: OCULUS

PROJECT: DICKSON SHOPS AND STREETSCAPE
TITLE: STRUCTURES
TIMBER DECK PLANS, SECTIONS AND DETAILS - SHEET 2

SCALE @ A1:	CHECKED:	APPROVED:
AS SHOWN	B.A. / A.S.	A.T.
PROJECT NUMBER:	DRAWN:	DATE:
PS208025	J.G. / J.M.	SEPT. 2024

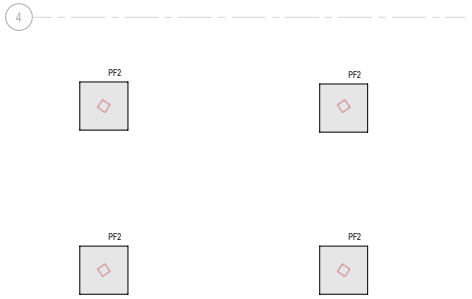
DRAWING No: ST_01-102 REV: P6

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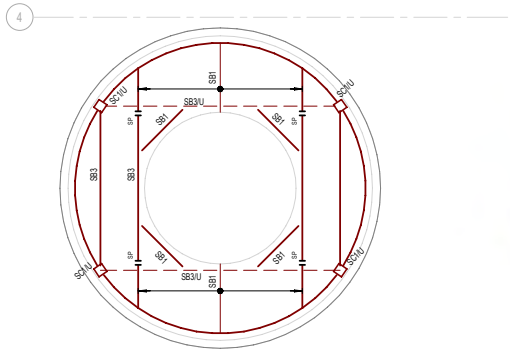
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Binder 3a,971

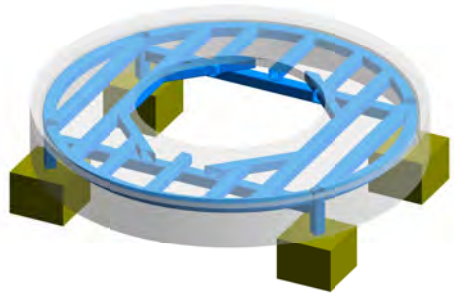
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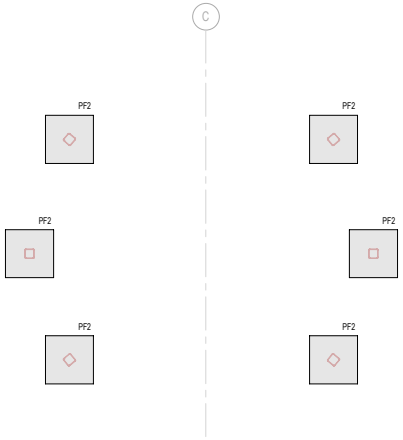
FN13b - FOUNDATION PLAN
SCALE 1 : 25



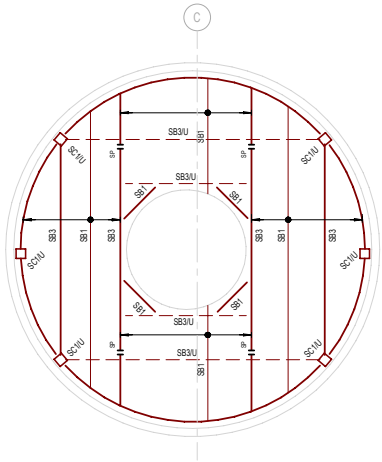
FN13b - STEEL FRAMING PLAN
SCALE 1 : 25



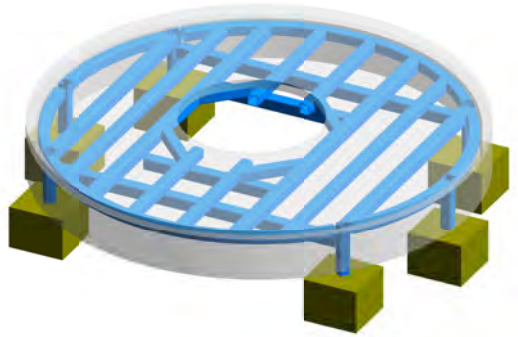
3D VIEW - F13b
SCALE



FN13c - FOUNDATION PLAN
SCALE 1 : 25



FN13c - STEEL FRAMING PLAN
SCALE 1 : 25



3D VIEW - F13c
SCALE

GENERAL NOTES:

1. FOR FLOOR LAYOUT, HOBS, SETDOWNS AND FALLS REFER TO THE ARCHITECTS DRAWINGS.
2. ALL NOMINATED SLAB DEPTHS ARE MINIMUM. UNO
3. ALL FOOTING ELEMENTS TO BE fc=32MPa.
4. BASED ON GEOTECHNICAL REPORT DONE BY FORTIFY GEOTECH ISSUED ON 23 JAN 2025, ALL FOOTINGS SHOULD BE FOUNDED ON THE ALLUVIAL SOIL WITH A Min ALLOWABLE BEARING PRESSURE OF 125kPa. THE DEPTH OF THIS FOUNDING STRATUM VARIES.
5. GROUND PREPARATION / FILL SHOULD BE CARRIED OUT IN ACCORDANCE WITH GEOTECHNICAL REPORT.
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9. A COHESION OF 50 DEGREES AND INTERNAL FRICTION OF 25 DEGREES HAVE BEEN ASSUMED FOR DESIGN OF LIGHT POLE BORED PIERS.

STEELWORK NOTES:

1. REFER TO ARCHITECTURAL DRAWINGS FOR ROOF LAYOUT, AND FALLS.
2. REFER TO SCHEDULE FOR STEEL MEMBER, PURLIN SIZES AND CENTRES.
3. ALL MATERIALS, FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE RELEVANT AUSTRALIAN STANDARDS.
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10. ALL STEEL TO BE HOT DIP GALVANISED OR PAINT PROTECED IN ACCORDANCE WITH AS2312.
11. SP DENOTES CONNECTION LOCATION OF MODULAR UNIT. REFER TO DETAIL SHEET

PLATFORM DESIGN LOADS:

DEAD LOAD : 0.5 kPa
LIVE LOAD : 5.0 kPa

PAD FOOTING SCHEDULE (150kPa)

MARK	DIMENSIONS			REINFORCEMENT	COMMENTS
	LENGTH	WIDTH	DEPTH		
PF1	700	700	350	N12-200 EW BTM	PAD FOOTING
PF2	450	450	350	N12-200 EW BTM	PAD FOOTING
PF3	1000	700	350	N12-200 EW BTM	PAD FOOTING

STEEL COLUMN SCHEDULE

MARK	STRUCTURAL SIZE	COMMENTS
SC1	89x5.0 SHS	STEEL POST
SC2	76x5.0 SHS	STEEL POST

STEEL FRAMING SCHEDULE

MARK	STRUCTURAL SIZE	COMMENTS
J1	75x6 EA	SLATE JOIST AT 450 MAX. CTS.
SB1	89x5.0 SHS	STEEL BEAM AT 450 MAX. CTS.
SB2	76x6 EA	INTERMEDIATE MEMBERS
SB3	100x5.0 SHS	STEEL BEAM
SB4	C100-15	STEEL EDGE FRAMING
SB6	125x75x6.0 RHS	STEEL BEAM

REV	DATE	BY	DESCRIPTION	CHK	APP
P5	09.06.2025	J.G.	TCCS DESIGN ACCEPTANCE	A.S./A.T.	A.T.
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P1	07.11.2024	J.G.	DOCUMENT READINESS 75%	A.T.	A.T.

DRAWING STATUS: FOR APPROVAL

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http://www.wsp.com

CLIENT: ACT CITY RENEWAL AUTHORITY
ARCHITECT: OCULUS

PROJECT: DICKSON SHOPS AND STREETSCAPE
TITLE: STRUCTURES
TIMBER DECK PLANS, SECTIONS AND DETAILS - SHEET 3

SCALE @ A1:	CHECKED:	APPROVED:
AS SHOWN	B.A. / A.S.	A.T.
PROJECT NUMBER:	DRAWN:	DATE:
PS208025	J.G. / J.M.	NOV. 2024

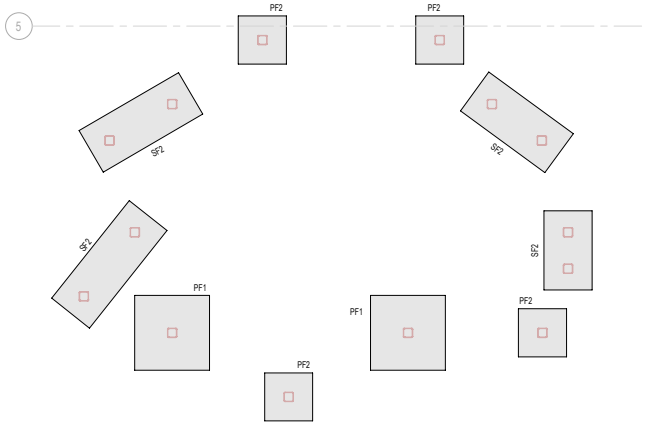
DRAWING No: ST_01-103 REV: P5

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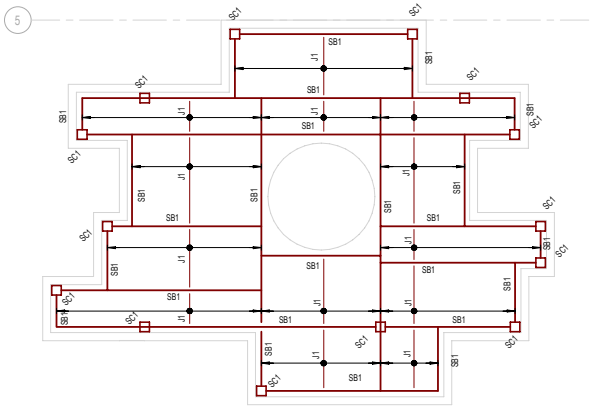
Binder 3a,972

DO NOT SCALE



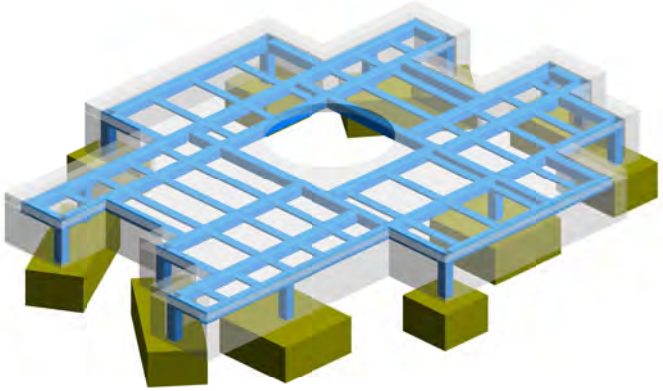
FN13d - FOUNDATION PLAN

SCALE 1 : 25



FN13d - STEEL FRAMING PLAN

SCALE 1 : 25



3D VIEW - F13d

SCALE

GENERAL NOTES:

1. FOR FLOOR LAYOUT, HOBS, SETDOWNS AND FALLS REFER TO THE ARCHITECTS DRAWINGS.
2. ALL NOMINATED SLAB DEPTHS ARE MINIMUM. UNO
3. ALL FOOTING ELEMENTS TO BE f'c=32MPa.
4. BASED ON GEOTECHNICAL REPORT DONE BY FORTIFY GEOTECH ISSUED ON 23 JAN 2025, ALL FOOTINGS SHOULD BE FOUNDED ON THE ALLUVIAL SOIL WITH A Min ALLOWABLE BEARING PRESSURE OF 125kPa. THE DEPTH OF THIS FOUNDING STRATUM VARIES.
5. GROUND PREPARATION / FILL SHOULD BE CARRIED OUT IN ACCORDANCE WITH GEOTECHNICAL REPORT.
6. THE CONTRACTOR SHALL PROVIDE ALL LOCATIONS, DEPTHS & SETTING OUT OF EXISTING SERVICES AND PROVIDE INFORMATION TO STRUCTURAL ENGINEER FOR CHECKING BEFORE DIGGING OUT FOUNDATION.
7. ALLOW FOR A BLINDING LAYER UNDER THE FOOTING TO REACH THE FOUNDING LAYER WITH AN ALLOWABLE BEARING PRESSURE OF 125 kPa.
8. CONTRACTOR TO ENGAGE A GEOTECHNICAL ENGINEER TO CONFIRM ALL ALLOWABLE BEARING PRESSURES UNDER FOOTINGS ARE ACHIEVED.
9. A COHESION OF 50 DEGREES AND INTERNAL FRICTION OF 25 DEGREES HAVE BEEN ASSUMED FOR DESIGN OF LIGHT POLE BORED PIERS.

STEELWORK NOTES:

1. REFER TO ARCHITECTURAL DRAWINGS FOR ROOF LAYOUT, AND FALLS.
2. REFER TO SCHEDULE FOR STEEL MEMBER, PURLIN SIZES AND CENTRES.
3. ALL MATERIALS, FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE RELEVANT AUSTRALIAN STANDARDS.
4. THE LOCATION OF STEEL STRUCTURAL SHOWN ON PLAN IS INDICATIVE. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION / SETOUT.
5. SUBSTITUTIONS FOR STEEL SECTIONS SHOWN ON DRAWINGS SHALL NOT BE MADE WITHOUT THE WRITTEN APPROVAL OF WSP STRUCTURAL ENGINEER.
6. NOT ALL SECONDARY STEELWORK IS SHOWN ON THIS STRUCTURAL DRAWING. THE CONTRACTOR SHALL PROVIDE ALL CLEATS AND DRILL ALL HOLES NECESSARY FOR FIXING STEEL AT NO ADDITIONAL COST.
7. THE CONTRACTOR SHALL PROVIDE TRIMMING MEMBERS FOR FREE EDGES, SERVICE PENETRATIONS ETC AT NO ADDITIONAL COST.
8. THE STRUCTURE HAS BEEN DESIGNED FOR THE FINAL IN SERVICE CONDITION ONLY. THE CONTRACTOR IS TO ENSURE THAT NO PART OF THE STRUCTURE IS OVERSTRESSED DURING CONSTRUCTION.
9. THE CONTRACTOR SHALL PROVIDE AND LEAVE IN PLACE TEMPORARY BRACING, UNTIL PERMANENT BRACING ELEMENTS ARE CONSTRUCTED. SUCH TEMPORARY BRACING AS IS NECESSARY TO STABILIZE THE STRUCTURE DURING ERECTION.
10. ALL STEEL TO BE HOT DIP GALVANISED OR PAINT PROTECED IN ACCORDANCE WITH AS2312.
11. SP DENOTES CONNECTION LOCATION OF MODULAR UNIT. REFER TO DETAIL SHEET

PLATFORM DESIGN LOADS:

DEAD LOAD : 0.5 kPa
LIVE LOAD : 5.0 kPa

PAD FOOTING SCHEDULE (150kPa)

MARK	DIMENSIONS			REINFORCEMENT	COMMENTS
	LENGTH	WIDTH	DEPTH		
PF1	700	700	350	N12-200 EW/ BTM	PAD FOOTING
PF2	450	450	350	N12-200 EW/ BTM	PAD FOOTING
PF3	1000	700	350	N12-200 EW/ BTM	PAD FOOTING

STEEL COLUMN SCHEDULE

MARK	STRUCTURAL SIZE	COMMENTS
SC1	89x5.0 SHS	STEEL POST
SC2	76x5.0 SHS	STEEL POST

STRIP FOOTING SCHEDULE

MARK	DIMENSIONS		REINFORCEMENT	COMMENTS
	WIDTH	DEPTH		
SF2	450	350		STRIP FOOTING

STEEL FRAMING SCHEDULE

MARK	STRUCTURAL SIZE	COMMENTS
J1	75x6 EA	SLATE JOIST AT 450 MAX. CTS.
SB1	89x5.0 SHS	STEEL BEAM AT 450 MAX. CTS.
SB2	76x6 EA	INTERMEDIATE MEMBERS
SB3	100x5.0 SHS	STEEL BEAM
SB4	C100-15	STEEL EDGE FRAMING
SB6	125x75x6.0 RHS	STEEL BEAM

REV	DATE	BY	DESCRIPTION	CHK	APP
P5	09.06.2025	J.G.	TCCS DESIGN ACCEPTANCE	A.S./A.T.	A.T.
P4	24.04.2025	J.G.	100% DOCUMENT READINESS	A.S./A.T.	A.T.
P3	08.04.2025	J.G.	100% DOCUMENT READINESS	A.S./A.T.	A.T.
P2	31.01.2025	J.G./J.M.	DOCUMENT READINESS - 100%	A.S./A.T.	A.T.
P1	07.11.2024	J.G.	DOCUMENT READINESS 75%	A.T.	A.T.

DRAWING STATUS: FOR APPROVAL

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CLIENT: ACT CITY RENEWAL AUTHORITY

ARCHITECT: OCULUS

PROJECT: DICKSON SHOPS AND STREETSCAPE

TITLE: STRUCTURES
TIMBER DECK PLANS, SECTIONS AND DETAILS - SHEET 4

SCALE @ A1:	CHECKED:	APPROVED:
AS SHOWN	B.A. / A.S.	A.T.
PROJECT NUMBER:	DRAWN:	DATE:
PS208025	J.G. / J.M.	NOV. 2024

DRAWING No: ST_01-104 REV: P5

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