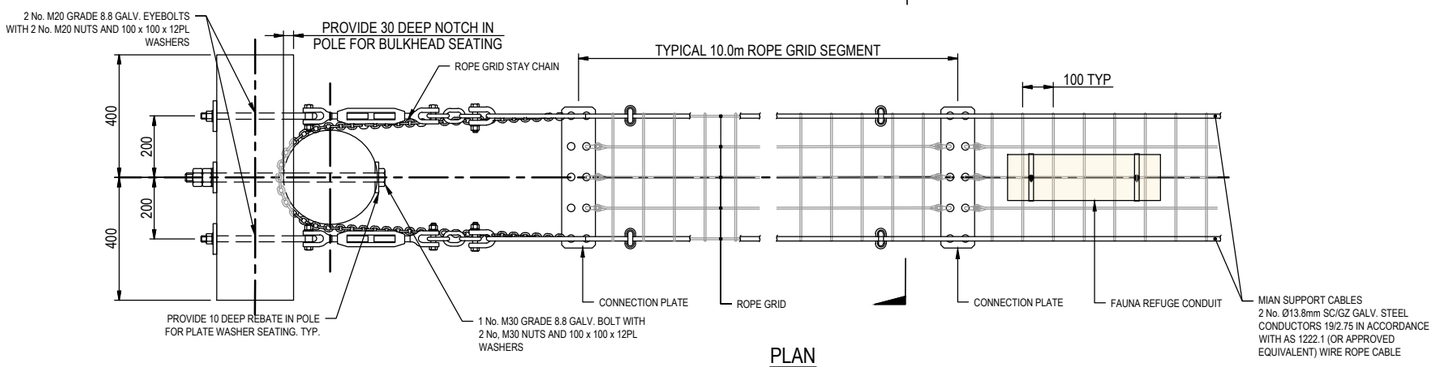

PLAN
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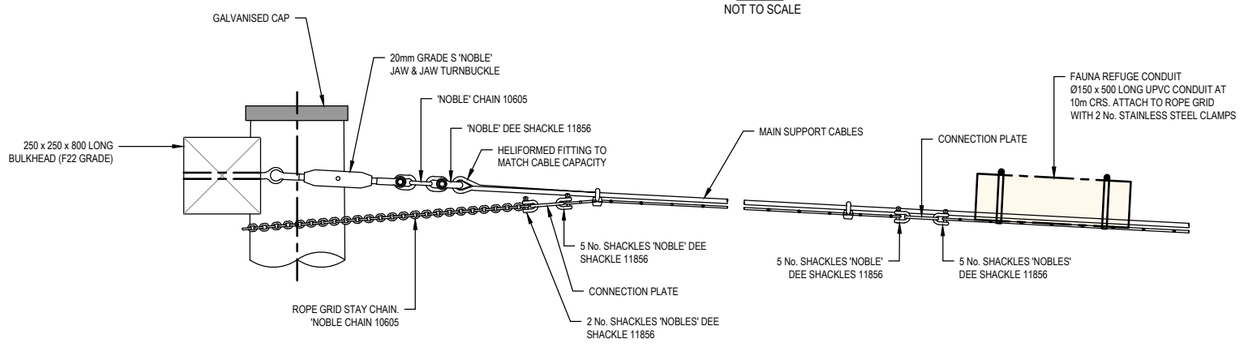
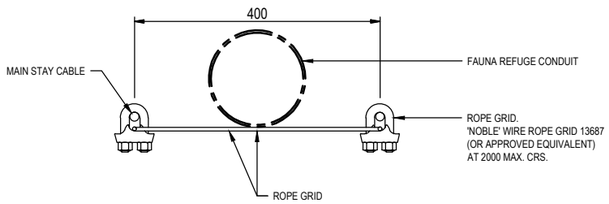


FAUNA LADDER (SUPPORT CABLE AND ROPE GRID) ARRANGEMENT
NOT TO SCALE



SECTION A
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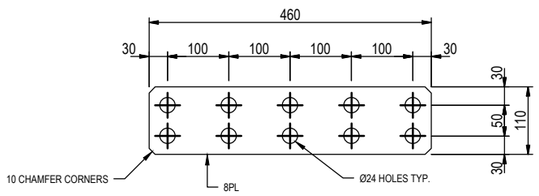
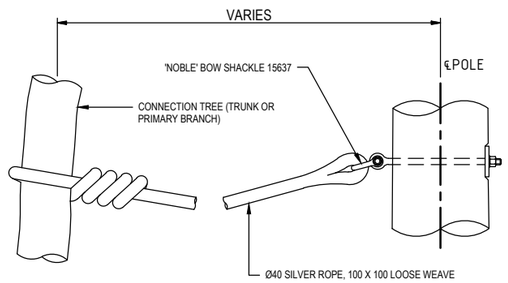
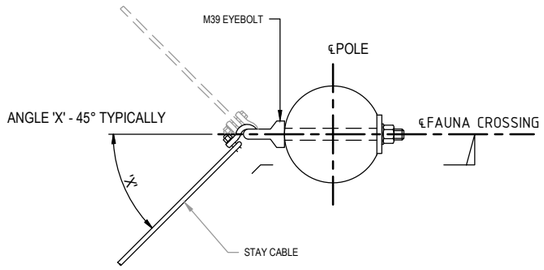


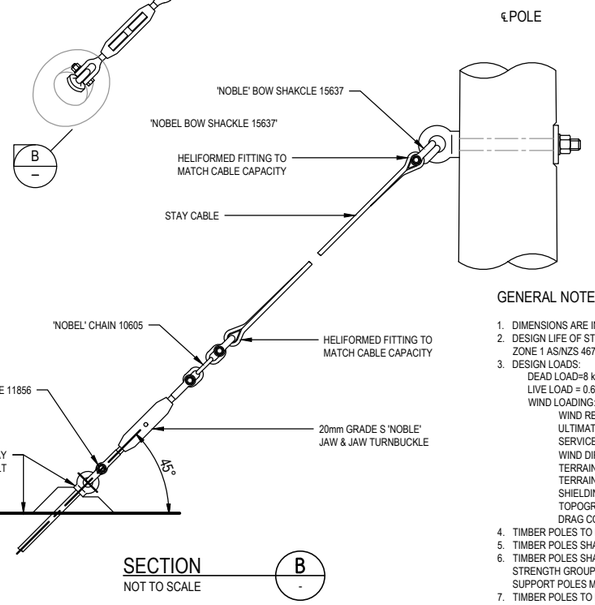
PLAN
CONNECTION PLATE DETAIL
NOT TO SCALE



TYPICAL LOSE ROPE CONNECTION TO TREE
NOT TO SCALE



TYPICAL STAY ROPE CONNECTION TO TREE
NOT TO SCALE



SECTION B
NOT TO SCALE

GENERAL NOTES

1. DIMENSIONS ARE IN MILLIMETRES .
2. DESIGN LIFE OF STRUCTURE AND ASSOCIATED COMPONENTS IS 40 YEARS FOR SERVICE LIFE ZONE 1 AS/NZS 4676
3. DESIGN LOADS:
   - DEAD LOAD=8 kg/m FOR MAIN SUPPORT CABLES AND LADDER
   - LIVE LOAD = 0.6 kN POINT LOAD
   - WIND LOADING:
     - WIND REGION 3A
     - ULTIMATE WIND SPEED: V1000= 46 m/s
     - SERVICEABILITY WIND SPEED: V20 = 37 m/s
     - WIND DIRECTION MULTIPLIER: Md=1.0
     - TERRAIN CATEGORY: 2
     - TERRAIN/HEIGHT MULTIPLIER: MZCAT= 1.05
     - SHIELDING MULTIPLIER: Ms= 1
     - TOPOGRAPHIC MULTIPLIER: Mt=1
     - DRAG COEFFICIENT Cd IN ACCORDANCE WITH AS1170.2
4. TIMBER POLES TO BE PLACED INSIDE THE CURRENT LINE OF TREES.
5. TIMBER POLES SHALL BE ERECTED VERTICAL AND CENTRALLY IN THE GROUND EXCAVATION.
6. TIMBER POLES SHALL BE IN ACCORDANCE WITH AS3818.11, STRESS GRADE F27 MIN AND STRENGTH GROUP SD2. ALL EXPOSED SURFACES TO BE TREATED FOR HAZARD CLASS H5. SUPPORT POLES MUST BE TREATED WITH COPPER CHROME ARSENIC (CCA).
7. TIMBER POLES TO BE BACKFILLED WITH CONCRETE WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 20MPa.
8. STEEL ITEMS SHALL BE HOT DIPPED GALVANISED IN ACCORDANCE WITH AS 4680 UNLESS NOTED OTHERWISE.
9. ISO METRIC PRECISION HEXAGONAL BOLTS AND SCREWS SHALL PROPERTY CLASS 4.6/S TO AS 1110 UNLESS NOTED OTHERWISE.
10. BOLTING CATEGORY FOR COMMERCIAL BOLTS SHALL BE 4.6/S IN ACCORDANCE WITH AS4100 UNLESS NOTED OTHERWISE.
11. ISO METRIC HEXAGONAL NUTS SHALL BE PROPERTY CLASS 5 TO AS1112 UNLESS NOTED OTHERWISE.
12. DAMAGED GALVANISED SURFACES SHALL BE REPAIRED WITH SUITABLE TWO PACK ORGANIC ZINC-RICH PRIMER.
13. BOLTS, NUTS AND WASHERS SHALL BE HOT DIP GALVANISED IN ACCORDANCE WITH AS 1214.
14. FOUNDING MATERIAL SHALL BE VERIFIED ON SITE BY AN EXPERIENCED GEOTECHNICAL ENGINEER PRIOR TO THE PLACING OF POLES.
15. THE CONTRACTOR SHALL ENSURE THE ADOPTED METHOD OF CONSTRUCTION WILL AVOID DAMAGE TO ANY SURFACES OR DRAINAGE.
16. STAINLESS STEEL SHALL BE MADE MARINE GRADE 316S UNLESS NOTED OTHERWISE.
17. STAINLESS STEEL DOWELS, BOLTS, CAST IN FERRULES AND SQUARE TAPERED WASHERS SHALL BE GRADE 316 STAINLESS STEEL TO A480.
18. CABLE TENSION AND SELF WEIGHT (MAIN SUPPORT CABLES ONLY) SAG VALUE PROVIDED IN CONSTRUCTION SEQUENCE CORRESPOND TO AMBIENT AIR AND STEEL TEMPERATURE 21°±3. THE VALUE VARIES ACCORDING TO ANGLES BETWEEN STAY WIRES AND TIMBER POLES. THE VALUES GIVEN IN THE CONSTRUCTION SEQUENCE ARE BASED ON ELEVATION AND PLAN ANGLES OF 45°.
19. RIGGING CONFIRMATION AND CABLE SPAN SHOWN IS FINAL AND DOES NOT INCLUDE ADDITIONAL LENGTH REQUIRED FOR ERECTIONS/STAGING.
20. EXACT LOCATIONS/OFFSETS ARE TO BE AGREED WITH THE PROJECT ECOLOGIST DURING CLEARING WORKS.
21. SPAN LENGTH NOT TO BE ADJUSTED WITHOUT APPROVAL OF AN EXPERIENCES STRUCTURAL ENGINEER.
22. EXACT LOCATION OF AERIAL FAUNA CROSSING AND ASSOCIATED CLEARING LIMIT SHALL BE AGREED AT THE TIME OF CONSTRUCTION WITH PRINCIPLE, AND NO CLEARING OF THIS AREA SHALL COMMENCE PRIOR TO THIS DIRECTION.

DR

150 mm ON ORIGINAL

DRAWING FILE LOCATION / NAME: V:_Vault\Projects\3002750\CAD\DWG\17_SC_Struct\RETAINING_WALLS\3002750-RW-2465.dwg
PLOT DATE: 29 Feb 2024 TIME: 19:48:23

EXTERNAL REFERENCE FILES	REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL
	A	13.10.2023	PRELIMINARY DESIGN	0020	DK

TITLE	NAME
DRAFTER	N.BROOKE-TAYLOR
DRAFTING CHECK	X. SEGUBAN
DESIGNER	B. LEJANO
DESIGN CHECK	T. MEADOWS
PROJECT MANAGER	K. DECANHA
PROJECT DIRECTOR	T. VAN NIEKERK

SCALES AT A1 SIZE DRAWING

DESIGNER: SMEC — Member of the Surbana Jurong Group — ABN 47 065 475 149 — LEVEL 9, 12 MOORE STREET CANBERRA ACT 2601 AUSTRALIA — SMEC PROJECT No 3002750

CLIENT: ACT Government — Transport Canberra & City Services

PROJECT TITLE: WILLIAM HOVELL DRIVE DUPLICATION

MISCELLANEOUS DETAILS FAUNA CROSSING ROPE BRIDGE DETAILS SHEET 1

SCALE	PHASE	PROJECT / DRAWING No.	REVISION
AS SHOWN	DETAIL DESIGN	3002750-RW-2465	A

A1

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