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ADDRESS / CONTACT INFO.

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PROJECT NAME

07GH002 LITTLE SMOKY RIVER NEAR GUY  
HYDROMETRIC CABLEWAY REBUILD

DESCRIPTION

ENGINEERING DESIGN SERVICES

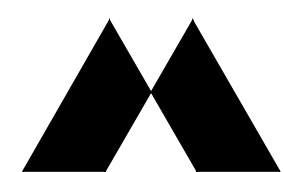
McELHANNEY PROJECT

2531-00324-01

OTHER REFERENCE

STATUS

ISSUED FOR TENDER



**McElhanney**

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DRAWING LIST

| DRAWING NO.            | SHEET TITLE   | CURRENT REVISION |
|------------------------|---|------------------|
| D001                   | GENERAL STRUCTURAL NOTES - SHEET 1  | 0                |
| D002                   | GENERAL STRUCTURAL NOTES - SHEET 2  | 0                |
| D100, D101             | SITE PLAN, OVERALL PLAN AND ELEVATION                                     | 0                |
| D201, D202             | A-FRAME & STEEL PLATE ANCHOR, A-FRAME & CONCRETE ANCHOR                   | 0                |
| D303, D304, D305, D306 | CONCRETE ANCHOR, CONCRETE ANCHOR REINFORCEMENT, CABLE HARDWARE ATTACHMENT | 0                |
| D501                   | CABLE TERMINATION DETAILS   | 0                |
| D2812                  | STEEL ANCHOR PLATE AND ROD  | 0                |

REFERENCE DRAWINGS

|             |                          |        |
|-------------|--------------------------|--------|
| 3136 SERIES | A-FRAME ASSEMBLY DETAILS | VARIES |
| 4000 SERIES | CABLE CAR ASSEMBLY       | 4      |



**CABLES, CABLE ACCESSORIES AND CABLE HARDWARE**

1. CABLES, WIRES AND STRANDS:
  - a. ALL CABLES, WIRE ROPES AND GUY STRANDS ARE TO BE BRIGHT AND DRAWN GALVANIZED IN ACCORDANCE WITH CAN/CSA G164 AND MANUFACTURER SPECIFICATIONS UNLESS NOTED OTHERWISE (U.N.O.)
  - b. ALL WIRE ROPE CABLES ARE TO BE MINIMUM 6X26 IWRC EXTRA IMPROVED PLOW (EIPS), U.N.O. WIRE ROPE SHALL CONFORM TO THE FOLLOWING.

| CABLE DIAMETER - mm (in) | MAX. CABLE WEIGHT - kg/m (lbs/ft) | MIN. BREAKING STRENGTH - kN (tons) |
|--------------------------|-----------------------------------|------------------------------------|
| 9.5 (3/8")               | 0.39 (0.26)                       | XX.X (X.X)                         |
| 12.7 (1/2")              | 0.68 (0.46)                       | 118 (13.3)                         |
| 15.9 (5/8")              | 1.07 (0.72)                       | 183 (20.6)                         |
| 19.1 (3/4")              | 1.55 (1.04)                       | 262 (29.4)                         |
| 22.2 (7/8")              | 2.11 (1.42)                       | 354 (39.8)                         |
| 25.4 (1")                | 2.75 (1.85)                       | 506 (56.9)                         |

- c. ALL GUY STRANDS SHALL BE MINIMUM 1X7 GALVANIZED GUY WIRE GRADE GR180 U.N.O.
- d. MAIN CABLE IS NOT PRE-STRETCHED UPON PROCUREMENT. IT SHALL BE INSTALLED THEN STRETCHED BY THE CONTRACTOR. STRETCHING IS DONE BY RUNNING A LOADED CABLECAR ACROSS THE SPAN. AT LEAST 5 TRIPS MUST BE MADE.
- e. MAIN CABLE SHALL HAVE A SPECIFIED UNLOADED SAG AND A SPECIFIED LOADED SAG INDICATED IN SPECIFICATIONS. SUPPORTS SHALL BE SUFFICIENTLY HIGH THAT THE LOWEST POINT OF A LOADED CABLE CAR AT MID-SPAN WILL CLEAR THE HIGH WATER ELEVATION DURING A 100-YEAR FLOOD BY AT LEAST 1M (3FT).
- f. ELEVATION DIFFERENCE OF THE MAIN CABLE AT BOTH SUPPORTS SHALL BE A MAXIMUM OF 0.5% OF THE FULL SPAN. THE HIGHER ELEVATION SHALL BE AT THE "FAR SIDE" TO PERMIT EASY RETURN OF THE CABLE CAR. CONTRACTOR TO VERIFY TOP OF CABLE AND TOWER ELEVATION FOR CONFORMANCE PRIOR TO STARTING CONSTRUCTION.
- g. ALL BACKSTAY (TIEBACK) LINES SHALL BE TAUT AT THE TIME OF INSTALLATION.
- h. MESSENGER (MARKER) CABLE SHALL BE INSTALLED IMMEDIATELY ABOVE THE MAIN CABLE WITH THE SAME SAG AS THE MAIN CABLE.
- i. CABLES SHALL BE CONNECTED AND ATTACHED TO TOWERS IN ACCORDANCE WITH MCELHANNEY DRAWING SET, DWG-3136

2. CABLE HARDWARE:

- a. ALL CABLE HARDWARE AND CONNECTIONS, INCLUDING BUT NOT LIMITED TO THIMBLES, SHACKLES, CLIPS, TURNBUCKLES, SHACKLES, SADDLE BLOCKS, SHALL BE DESIGNED BY THE SUPPLIER TO DEVELOP A CAPACITY EQUAL TO 80% OF THE MINIMUM BREAKING FORCE OF THE CABLE.
- b. CABLE AND WIRE ROPE FITTINGS SHALL BE INSTALLED AND USED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATION AND RECOMMENDATIONS. THIS INCLUDES CORRECTLY SIZED HARDWARE, SPACING, AND PROPER TORQUING.
- c. TURNBUCKLES, CLIPS, GRIPS, AND SHACKLES SHALL BE SIZED TO MATCH THE CABLE OR WIRE.
- d. ALL CABLE COMPONENTS SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH CAN/CSA G164 U.N.O.

3. AIRCRAFT WARNING MARKERS:

- a. AIRCRAFT WARNING MARKERS SHALL BE SPECIFIED AND INSTALLED IN ACCORDANCE WITH TRANSPORT CANADA STANDARDS FOR CATENARY MARKERS.
- b. AIRCRAFT WARNING MARKERS ARE TO BE SPHERICAL WITH A DIAMETER OF 500MM WITH MAXIMUM SPACING OF 30M.
- c. MARKERS ARE TO BE ALTERNATING ORANGE AND WHITE IN COLOR IN ACCORDANCE WITH TRANSPORT CANADA STANDARDS.

4. CABLES ARE TO BE ANCHORED TO THE FOUNDATION AS SHOWN ON THE DRAWINGS:

- a. ALL ANCHOR COMPONENTS ARE TO BE HOT DIP GALVANIZED U.N.O.

5. SUBMITTALS:

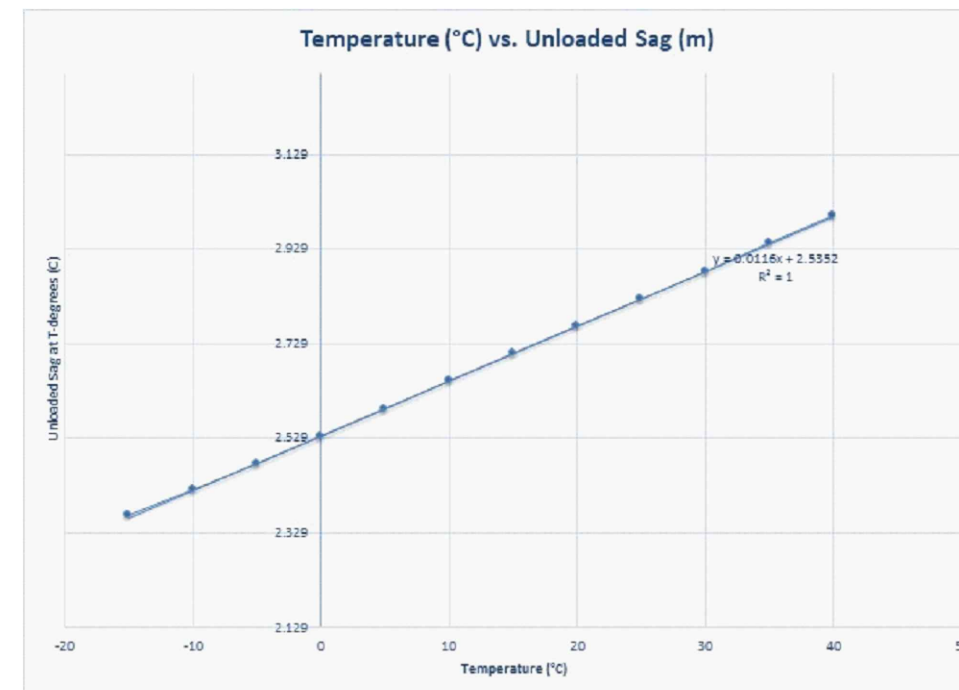
- a. RAW SURVEY DATA WITH CONTROL POINTS PRIOR TO COMMENCING WORK FOR VERIFICATION OF A-FRAME TOWER ELEVATION, SETBACKS, CABLEWAY SPANS AND ANCHORS.
- b. RAW SURVEY DATA INDICATING THE AS-BUILT TOWER ELEVATIONS AND FINAL UNLOADED AND LOADED CABLE SAG.
- c. OWNER WILL BE ON-SITE AT COMPLETION OF PROJECT TO CONDUCT FINAL SURVEY AND COLLECT ABOVE INFORMATION.
- d. ALL OTHERS AS SPECIFIED IN THE STATEMENT OF WORK

CABLEWAY CABLE DETAILS

| CABLEWAY CABLE DETAILS |                            |                  |                     |                 |                             |  |                                   |
|------------------------|----------------------------|------------------|---------------------|-----------------|-----------------------------|--|-----------------------------------|
| CABLE NAME             | CABLE TYPE                 | CABLE DIAMETER   | MIN. BREAKING FORCE | TURNBACK LENGTH | MIN. NUMBER WIRE ROPE CLIPS | SAG  | COMMENTS                          |
| MAIN CABLE             | 6X26 IWRC EEPIS GALVANIZED | 25.4 mm (1") Ø   | 506 kN              | 2150 mm         | 5 CLIPS                     | UNLOADED SAG @ T0 = 2.37 m; LOADED SAG @ T0 = 5.30 m |                                   |
| BACKSTAY CABLE         | 6X26 IWRC EIPS GALVANIZED  | 12.7 mm (1/2") Ø | 118 kN              | 600 mm          | 4 CLIPS                     | TAUT AT TIME OF INSTALLATION                         |                                   |
| AIRCRAFT MARKER CABLE  | 6X26 IWRC EIPS GALVANIZED  | 9.5 mm (3/8") Ø  | 67.2 kN             | 600 mm          | 3 CLIPS                     | SAG TO MATCH MAIN CABLE, UNLOADED                    | INSTALL DIRECTLY ABOVE MAIN CABLE |
| SAFETY LOOP CABLE      | 6X26 IWRC EEPIS GALVANIZED | 25.4 mm (1") Ø   | 506 kN              | 1160 mm         | 6 CLIPS                     |  |                                   |

NOTES:  
 - ALL CABLES, FITTINGS AND CONNECTIONS ARE TO BE GALVANIZED  
 - INSTALL PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION AND RECOMMENDATIONS  
 - SUPPLIER IS TO DESIGN EYEBOLT, THIMBLE, SHACKLE AND CLIP CONNECTIONS TO DEVELOP A MAXIMUM OF 80% OF THE MINIMUM BREAKING FORCE OF THE CABLE  
 - SUPPLIER MUST DESIGN AND SIZE THE SHEAVES, SADDLE BLOCKS, THIMBLES, CLIPS AND TURNBUCKLES TO MATCH THE SPECIFIC CABLE AND ACCOUNT FOR DECREASED CABLE CIRCUMFERENCE DUE TO STRETCHING WHERE NECESSARY  
 - INSTALL SAFETY RIVETS OF BOLTS AND NUTS WITH END PEENED AT TURNBUCKLES LOCATION

| CABLEWAY SAG TEMPERATURE VARIATION DETAILS |                  |                |
|--|------------------|----------------|
| TEMPERATURE (°C)                           | UNLOADED SAG (m) | UNLOADED SAG % |
| -15  | 2.365            | 1.57%          |
| -10  | 2.420            | 1.60%          |
| -5   | 2.477            | 1.64%          |
| 0  | 2.534            | 1.68%          |
| 5  | 2.592            | 1.72%          |
| 10   | 2.650            | 1.75%          |
| 15   | 2.708            | 1.79%          |
| 20   | 2.766            | 1.83%          |
| 25   | 2.824            | 1.87%          |
| 30   | 2.883            | 1.91%          |
| 35   | 2.941            | 1.95%          |
| 40   | 2.999            | 1.99%          |



| Rev | Date       | Description       | Drawn | Design | App'd |
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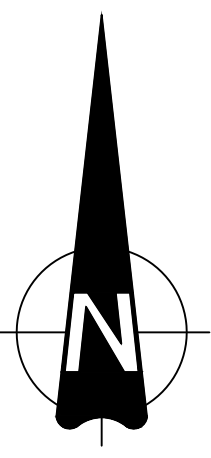
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**07GH002 LITTLE SMOKY RIVER NEAR GUY**  
**HYDROMETRIC CABLEWAY REBUILD**  
**GENERAL STRUCTURAL NOTES - SHEET 2**

|                |      |
|----------------|------|
| Drawing No.    |      |
| <b>D002</b>    |      |
| Project Number | Rev. |
| 2531-00324-01  | 0    |

Approved Sealed

DATE: 2023-11-30, 14:51 FILE: X:\2531\2531-00324-01\_Little Smoky River Cableway\07\_DRAWINGS\01\_Sheets\2531-00324-01 D100 Site Plan.dwg



**NOTE:**  
 FINAL CABLEWAY ALIGNMENT TO BE CONFIRMED ON SITE.  
 CONSIDERATIONS WHEN CHOOSING FINAL ALIGNMENT:  
 - CABLE TO BE PERPENDICULAR TO THE FLOWING WATER  
 - MAIN CABLE ELEVATIONS AT HOME AND FAR SIDES TO BE EQUAL  
 - DO NOT EXCEED DESIGN SPAN  
 ONCE FINAL LOCATIONS AND CABLE ELEVATIONS ARE KNOWN, CONTACT ENGINEER TO FINALIZE LOADED AND UNLOADED SAG VALUES

| WORKPOINT TABLE |                   |            |           |
|-----------------|-------------------|------------|-----------|
| WP NO.          | DESCRIPTION       | NORTHING   | EASTING   |
| WP1             | HOME SIDE A-FRAME | 6145573.53 | 489763.35 |
| WP2             | FAR SIDE A-FRAME  | 6145560.37 | 489612.92 |

- NOTES:**
- TOPOGRAPHY DETERMINED FROM FIELD SURVEY CONDUCTED BY McELHANNEY ON OCTOBER 3<sup>RD</sup> 2022 FOR PROJECT 2531-22510-22
  - WORK POINTS ARE PROVIDED FOR REFERENCE IN LOCATING THE NEW CABLEWAY AND MAY NEED TO BE ADJUSTED BASED ON SITE CONDITIONS.
  - COORDINATES ARE IN GRID, USING NAD83 (CSRS) UTM ZONE 11N PROJECTION
  - DIMENSIONS ON THIS DRAWING ARE IN m AND ARE SHOWN TO GROUND.
  - CONSTRUCTION BENCHMARKS:  
 CP1000 (SIBM#1) BENCHMARK FOUND:  
 N 6145573.80, E 489784.85, ELEV 487.997 m
  - PERMANENT BENCHMARK TO BE INSTALLED ON HOME SIDE MASS CONCRETE ANCHOR AND NEAR FAR SIDE A-FRAME PER ECCS SPECIFICATIONS.

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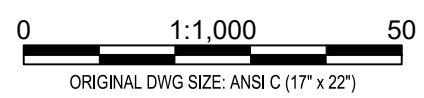
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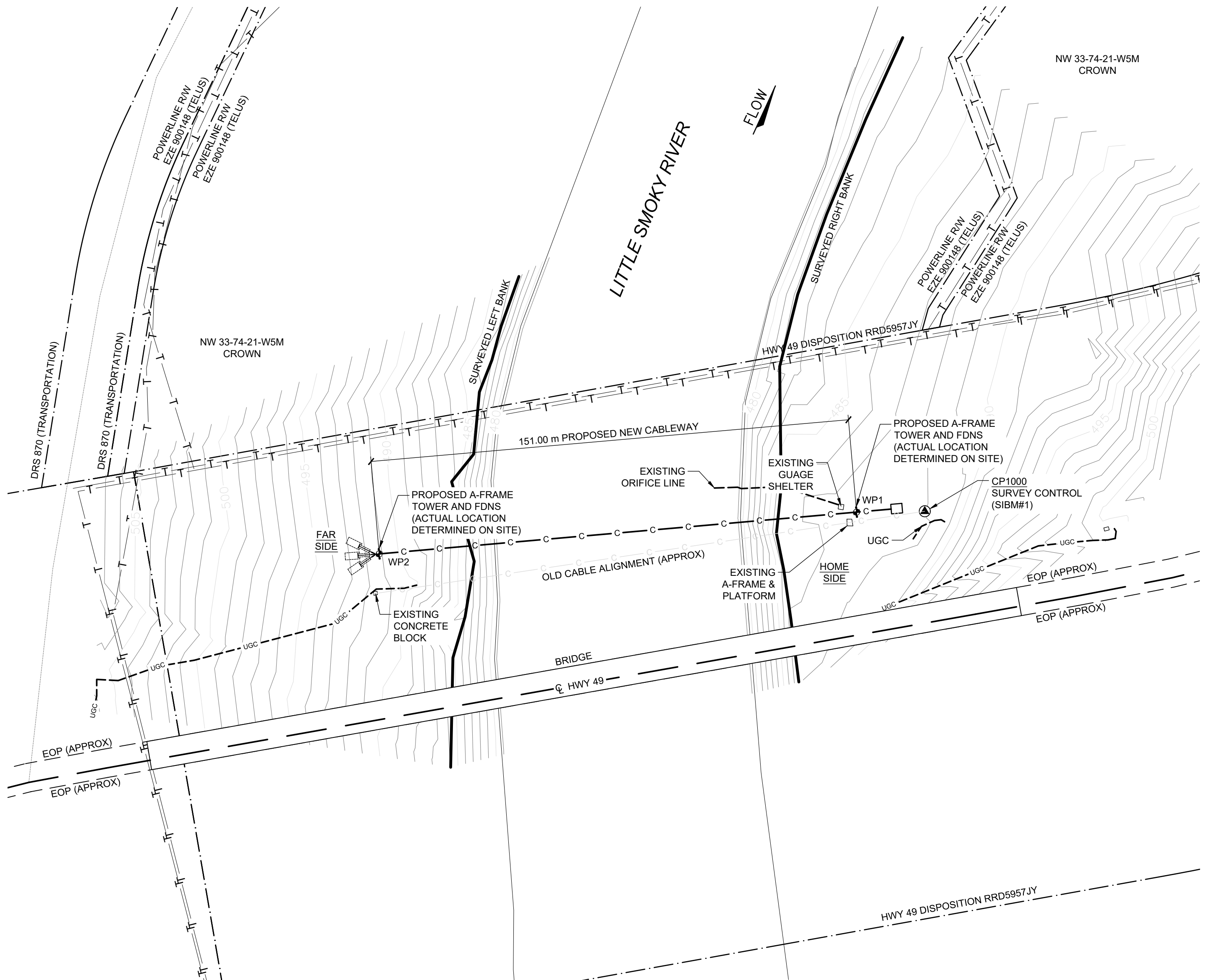


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**1 SITE PLAN**  
 SCALE: 1 = 1000



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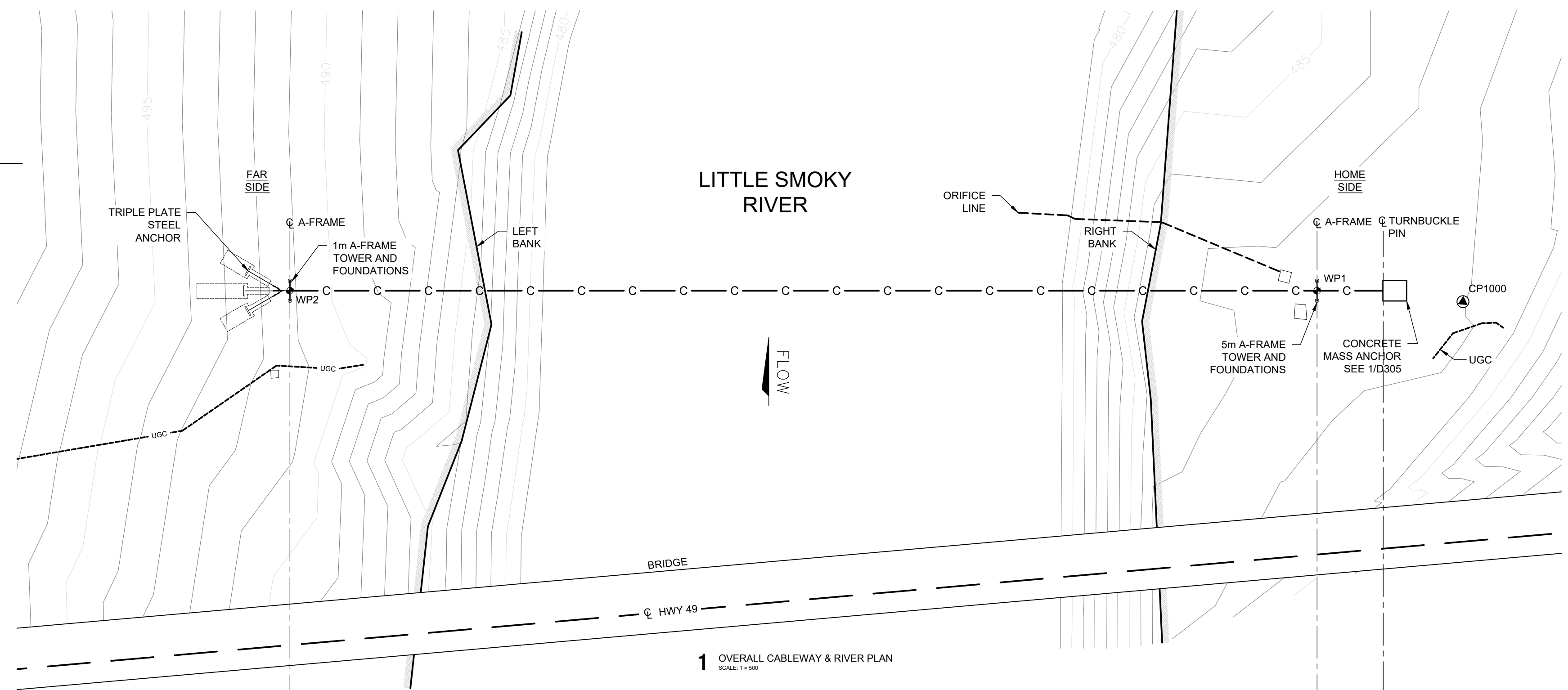
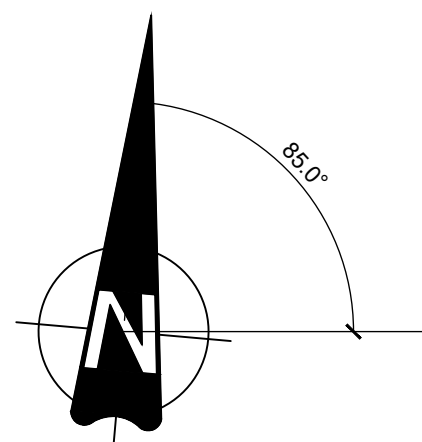
**07GH002 LITTLE SMOKY RIVER NEAR GUY HYDROMETRIC CABLEWAY REBUILD SITE PLAN**

Drawing No. **D100**  
 Project Number 2531-00324-01 Rev. 0

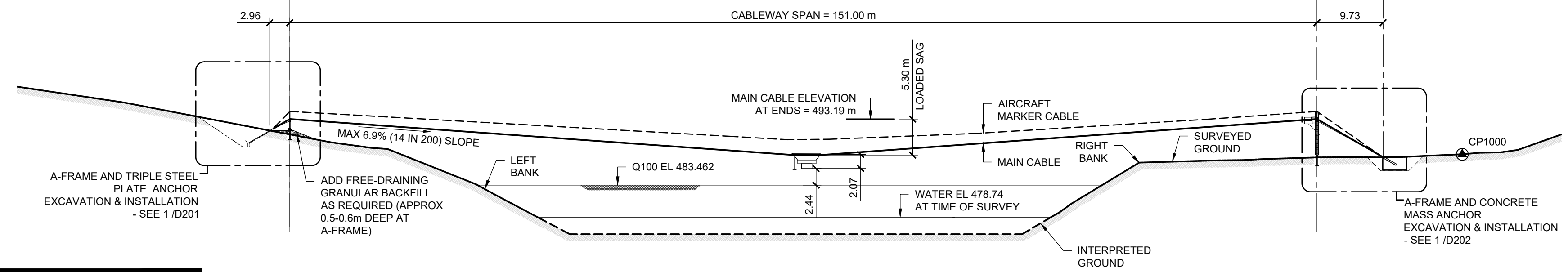
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DATE: 2023-11-30, 14:48 FILE: X:\2531\2531-00324-01\Drawings\07\_Drawing\07\_Sheets\03-D101\_Overall Plan & Elevation.dwg



**1** OVERALL CABLEWAY & RIVER PLAN  
SCALE: 1 = 500



**2** OVERALL CABLEWAY & RIVER ELEVATION  
SCALE: 1 = 500  
(LOOKING DOWNSTREAM)



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**07GH002 LITTLE SMOKY RIVER NEAR GUY**  
**HYDROMETRIC CABLEWAY REBUILD**  
**OVERALL PLAN AND ELEVATION**

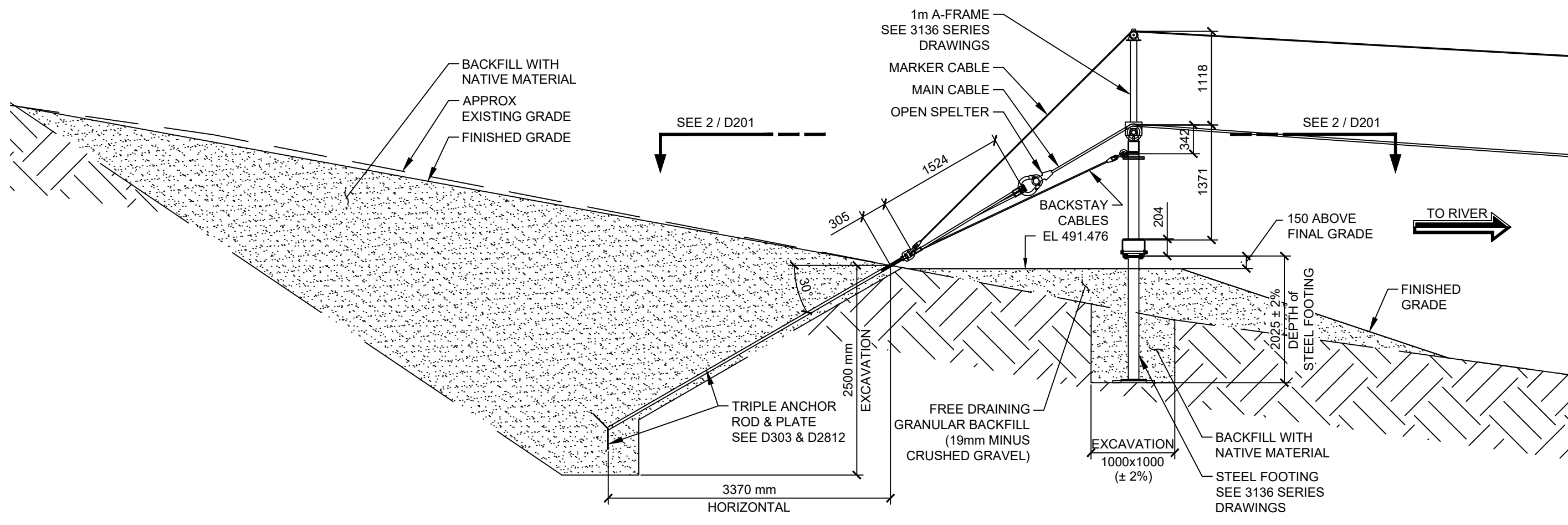
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Project Number 2531-00324-01

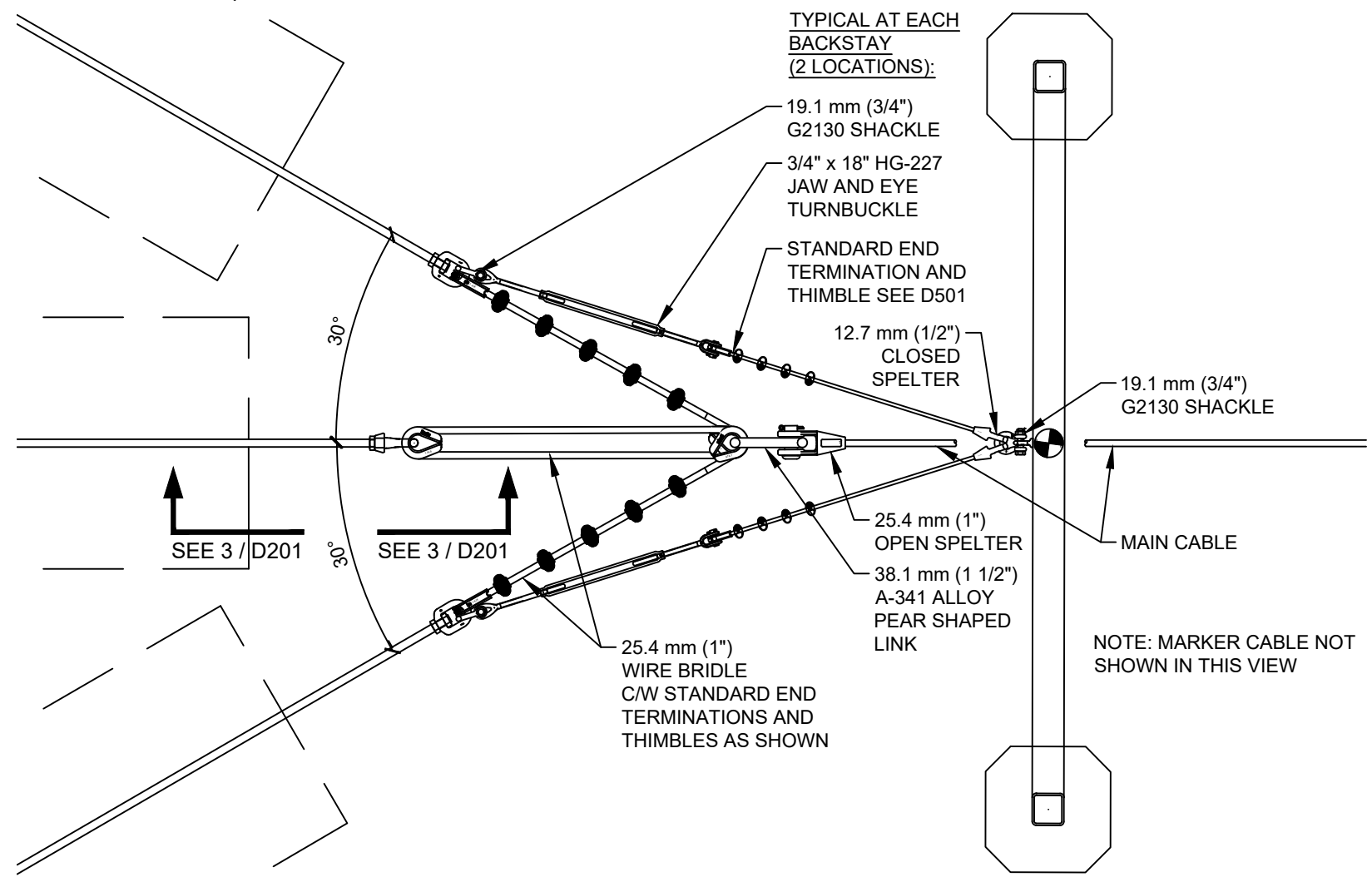
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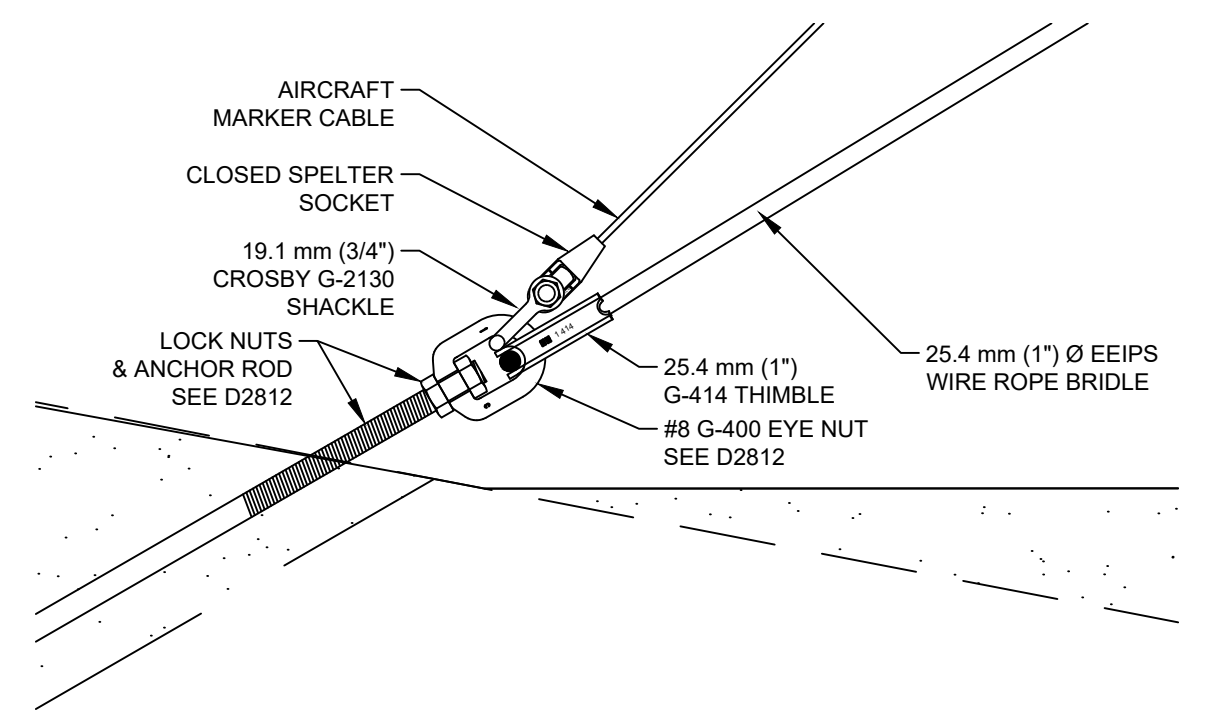
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**1 A-FRAME & STEEL PLATE ANCHOR - SECTION**  
SCALE: 1 = 50



**2 HARDWARE CONNECTION ARRANGEMENT - PLAN VIEW**  
SCALE: 1 = 25



**3 D-RING CONNECTION DETAIL - SECTION VIEW**  
SCALE: 1 = 10

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**07GH002 LITTLE SMOKY RIVER NEAR GUY**  
**HYDROMETRIC CABLEWAY REBUILD**  
**A-FRAME & STEEL PLATE ANCHOR**

Drawing No.

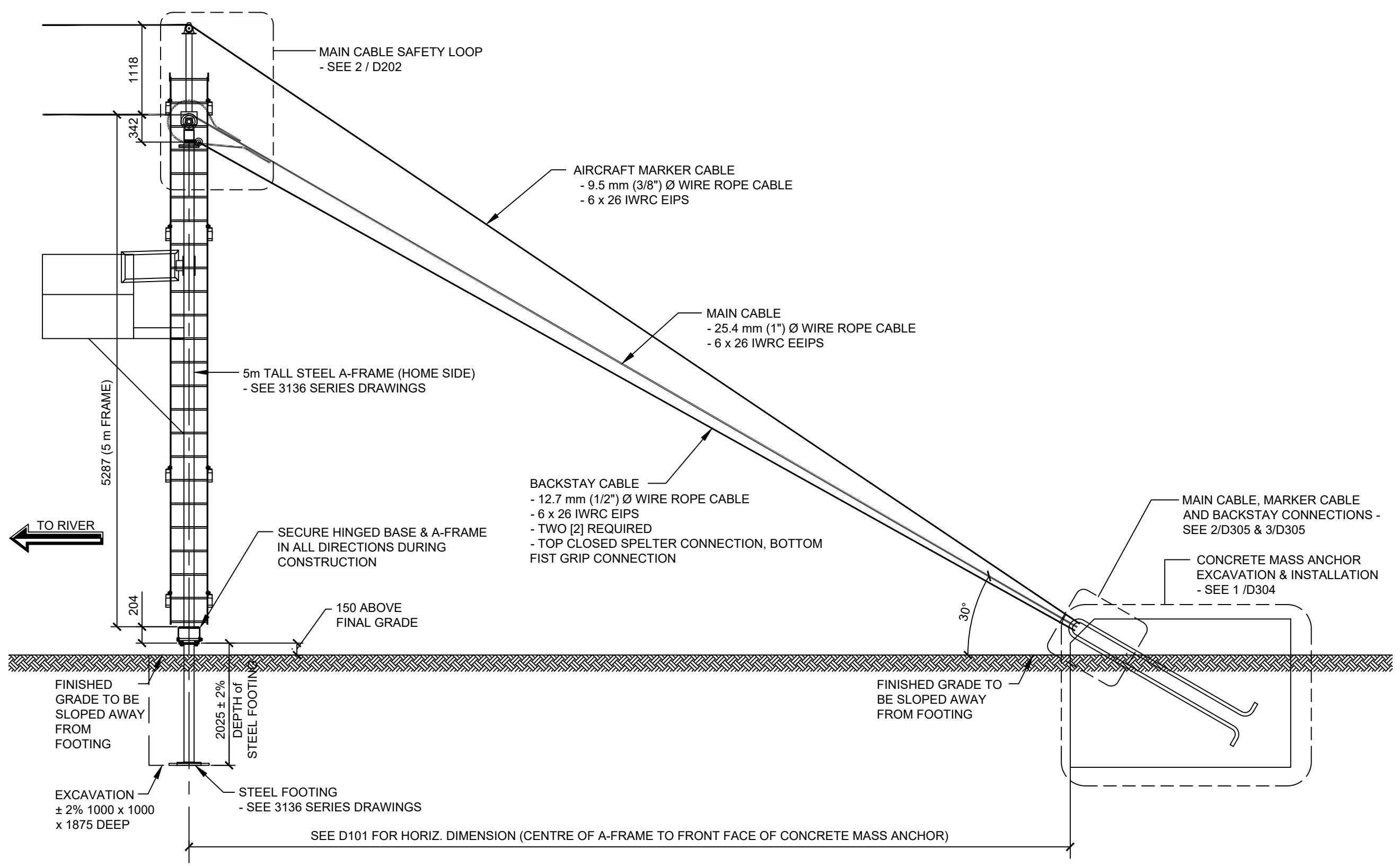
**D201**

Project Number  
2531-00324-01

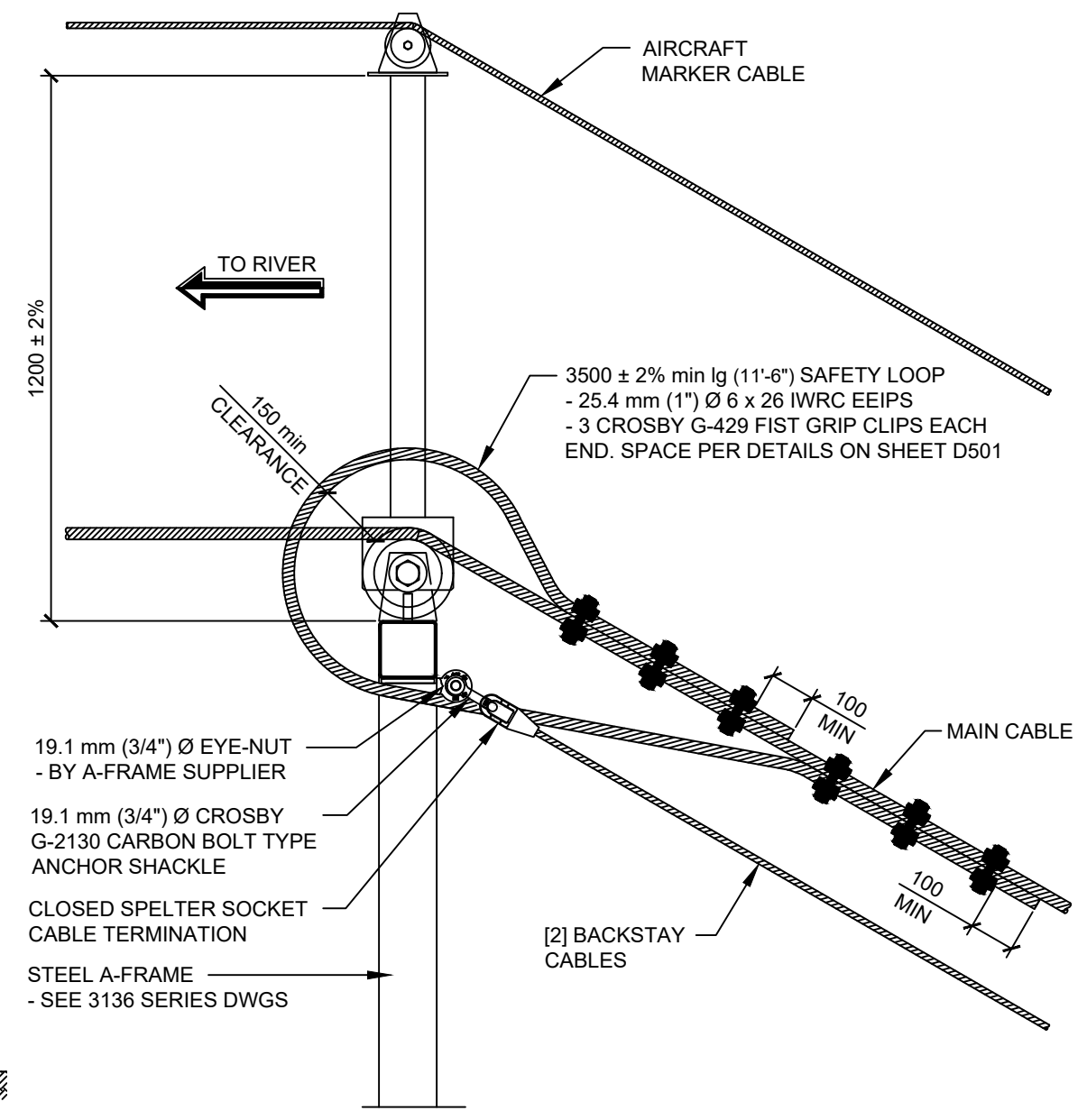
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**1** A-FRAME & CONCRETE MASS ANCHOR SECTION  
SCALE: 1 = 50



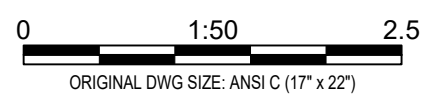
**2** MAIN CABLE SAFETY LOOP DETAIL  
SCALE: 1 = 15

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**07GH002 LITTLE SMOKY RIVER NEAR GUY**

**HYDROMETRIC CABLEWAY REBUILD A-FRAME & CONCRETE GRAVITY ANCHOR**

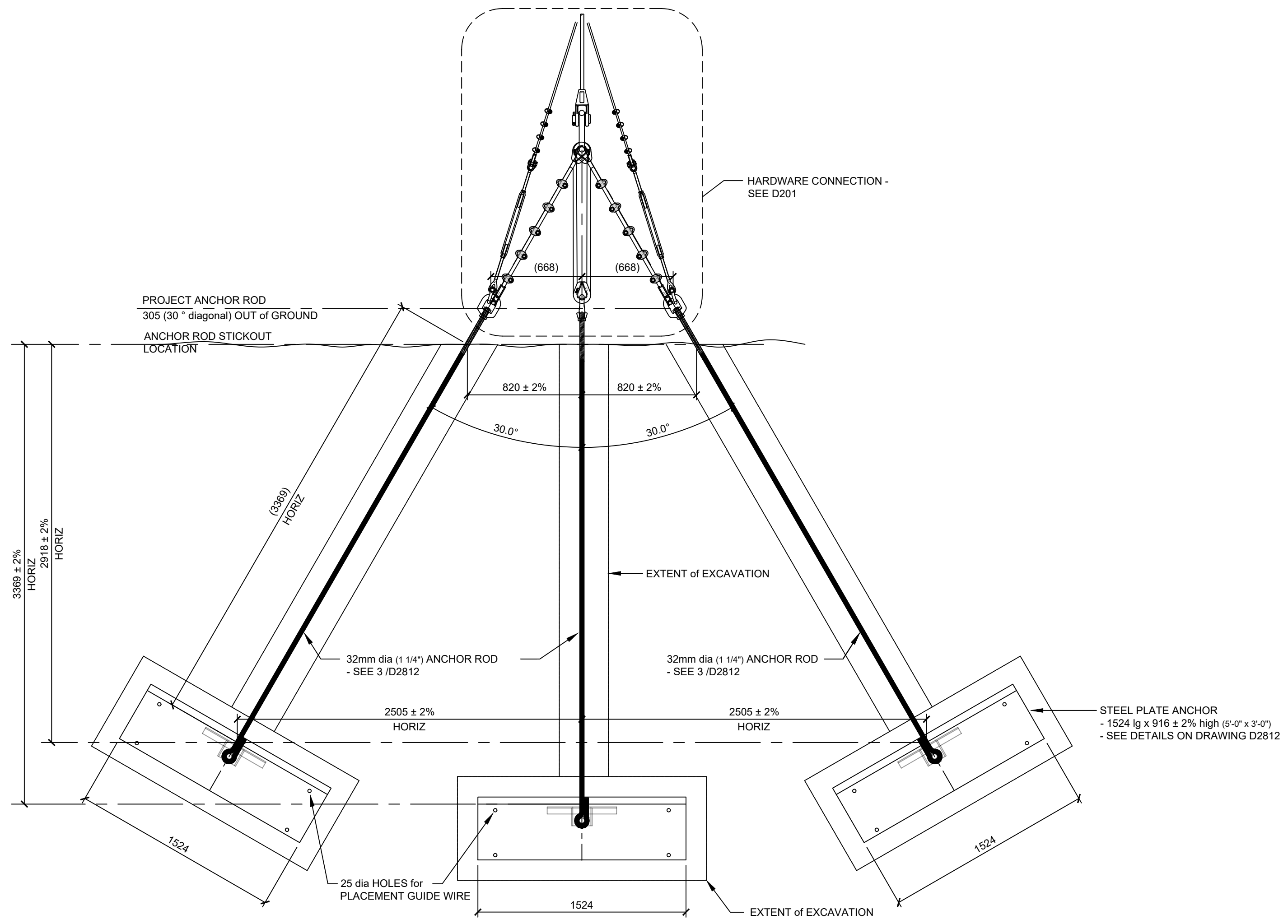
Drawing No. **D202**

Project Number 2531-00324-01

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**1 TRIPLE STEEL PLATE ANCHOR ARRANGEMENT**  
SCALE: 1 = 25



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**07GH002 LITTLE SMOKY RIVER NEAR GUY HYDROMETRIC CABLEWAY REBUILD CONCRETE ANCHOR**

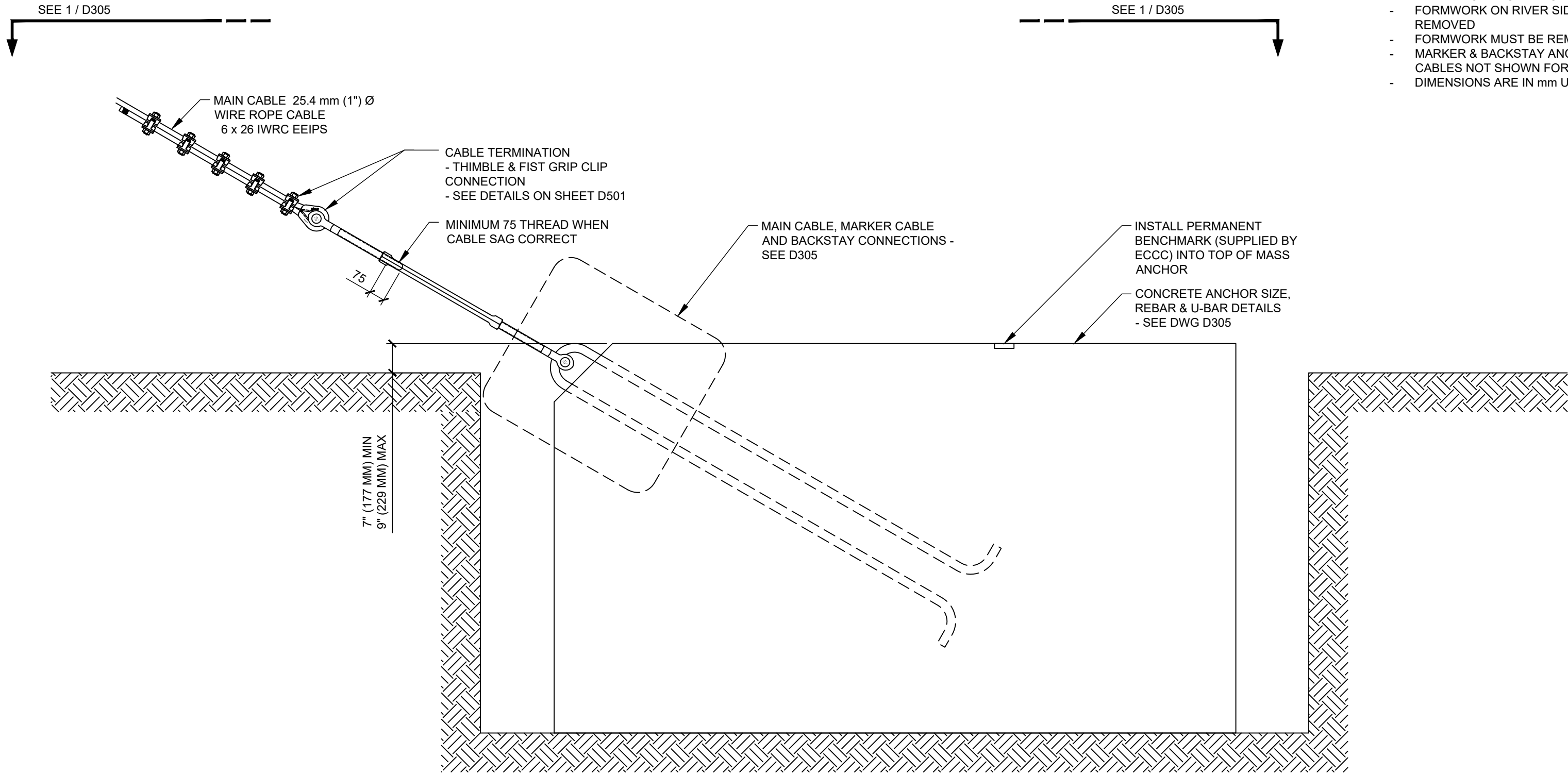
Drawing No. **D303**

Project Number 2531-00324-01

Rev. 0

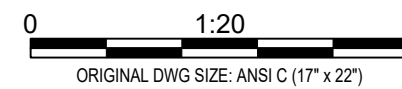
DESTROY ALL PRINTS BEARING PREVIOUS REVISION





- UNDISTURBED SOIL OR SUFFICIENTLY COMPACTED SOIL AT BASE OF EXCAVATION
- FORMWORK ON RIVER SIDE CONCRETE MUST BE REMOVED
- FORMWORK MUST BE REMOVED BELOW GRADE ALL SIDES
- MARKER & BACKSTAY ANCHOR BARS, TURNBUCKLES AND CABLES NOT SHOWN FOR CLARITY. SEE 1 / D305
- DIMENSIONS ARE IN mm UNLESS NOTED OTHERWISE

**1 CONCRETE MASS ANCHOR - EXCAVATION & INSTALLATION SECTION**  
SCALE: 1 = 20



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**07GH002 LITTLE SMOKY RIVER  
NEAR GUY  
HYDROMETRIC CABLEWAY REBUILD  
CONCRETE ANCHOR**

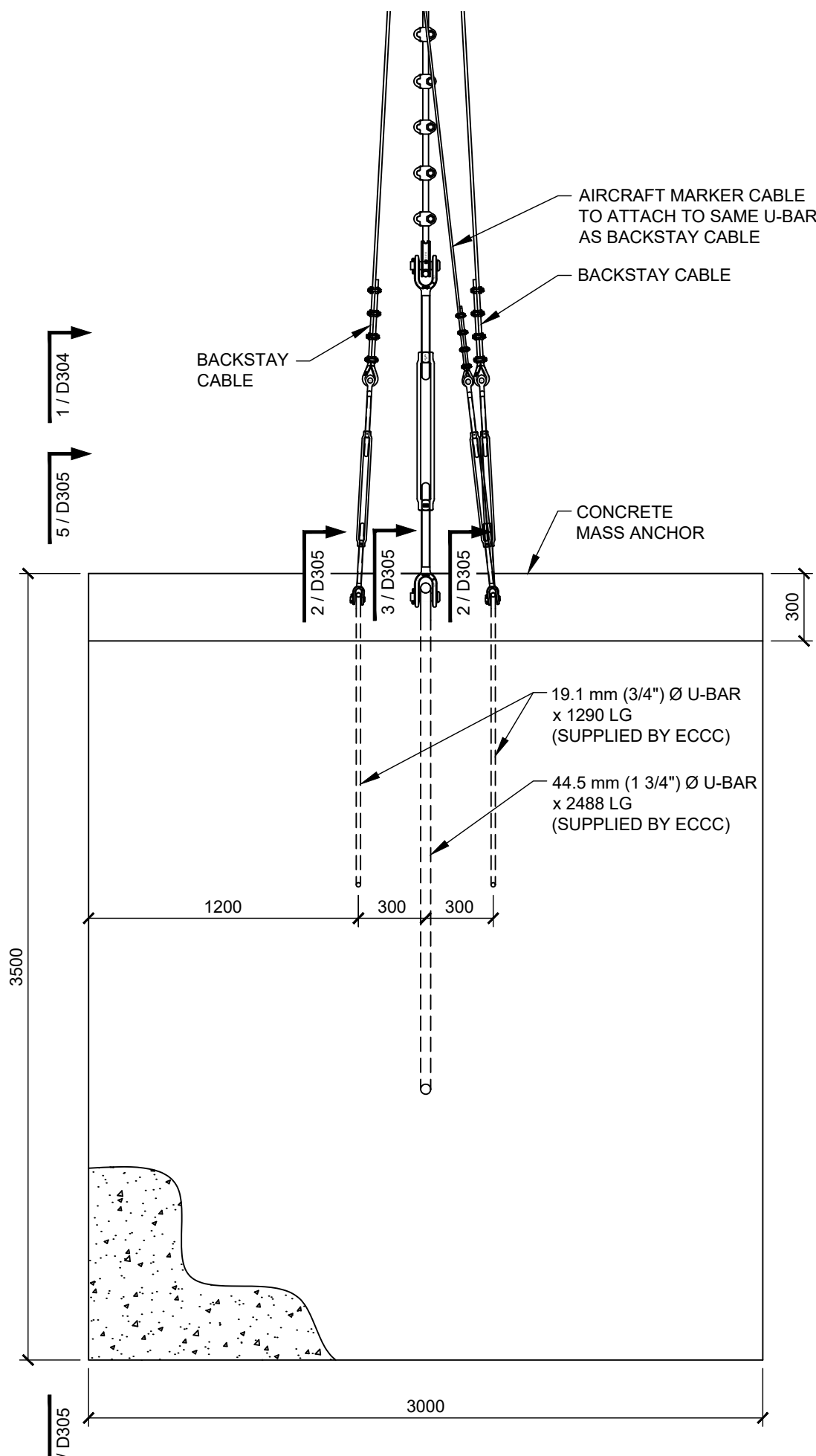
Drawing No.

**D304**

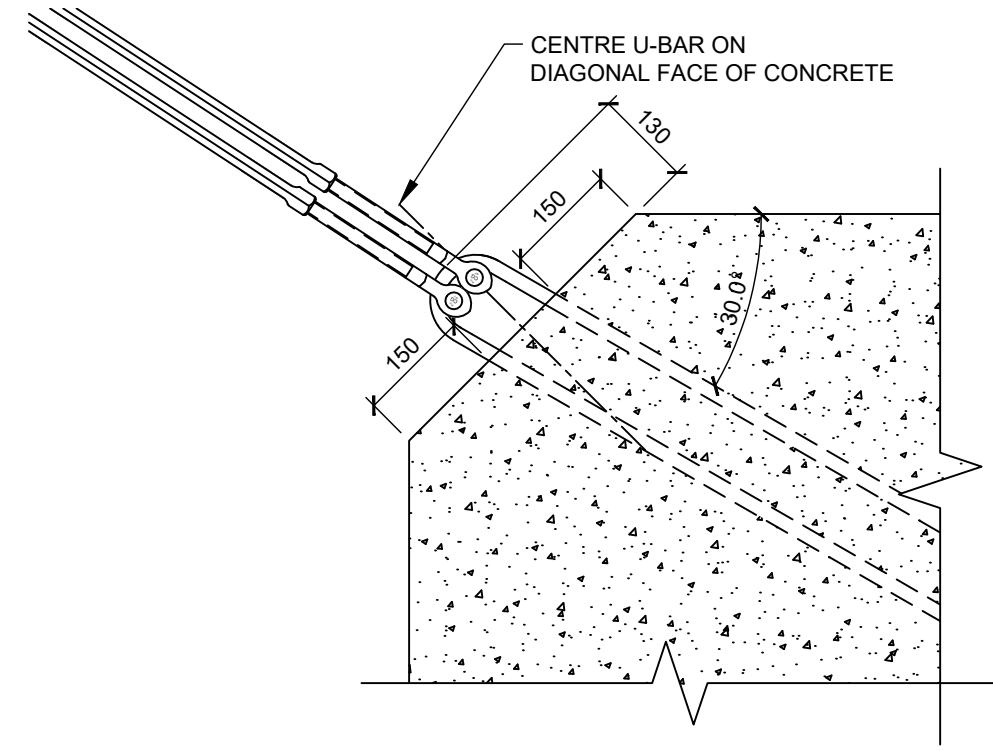
Project Number  
2531-00324-01

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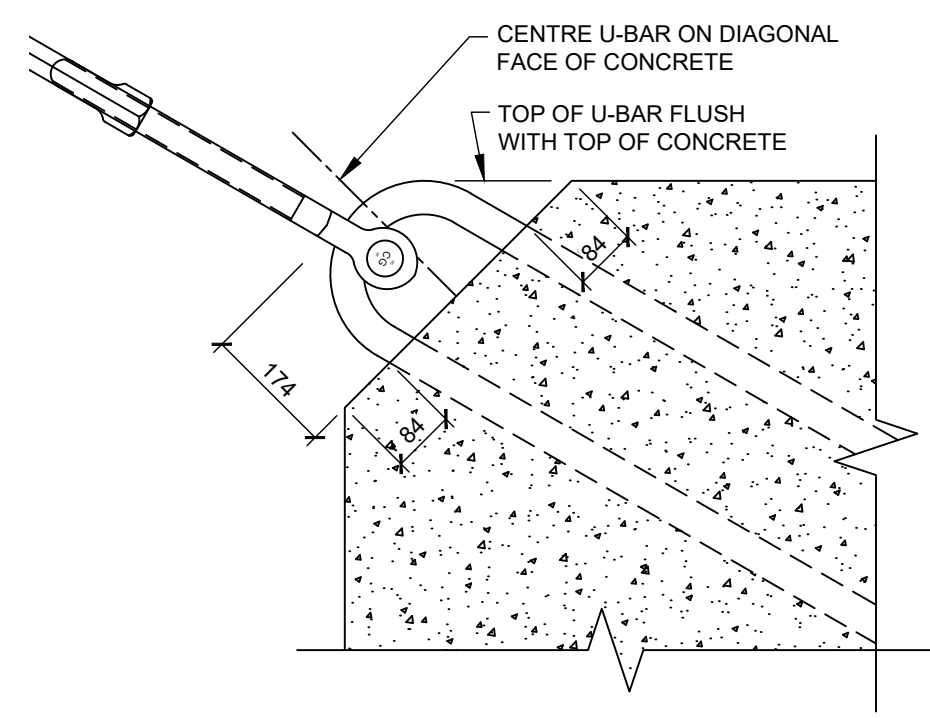
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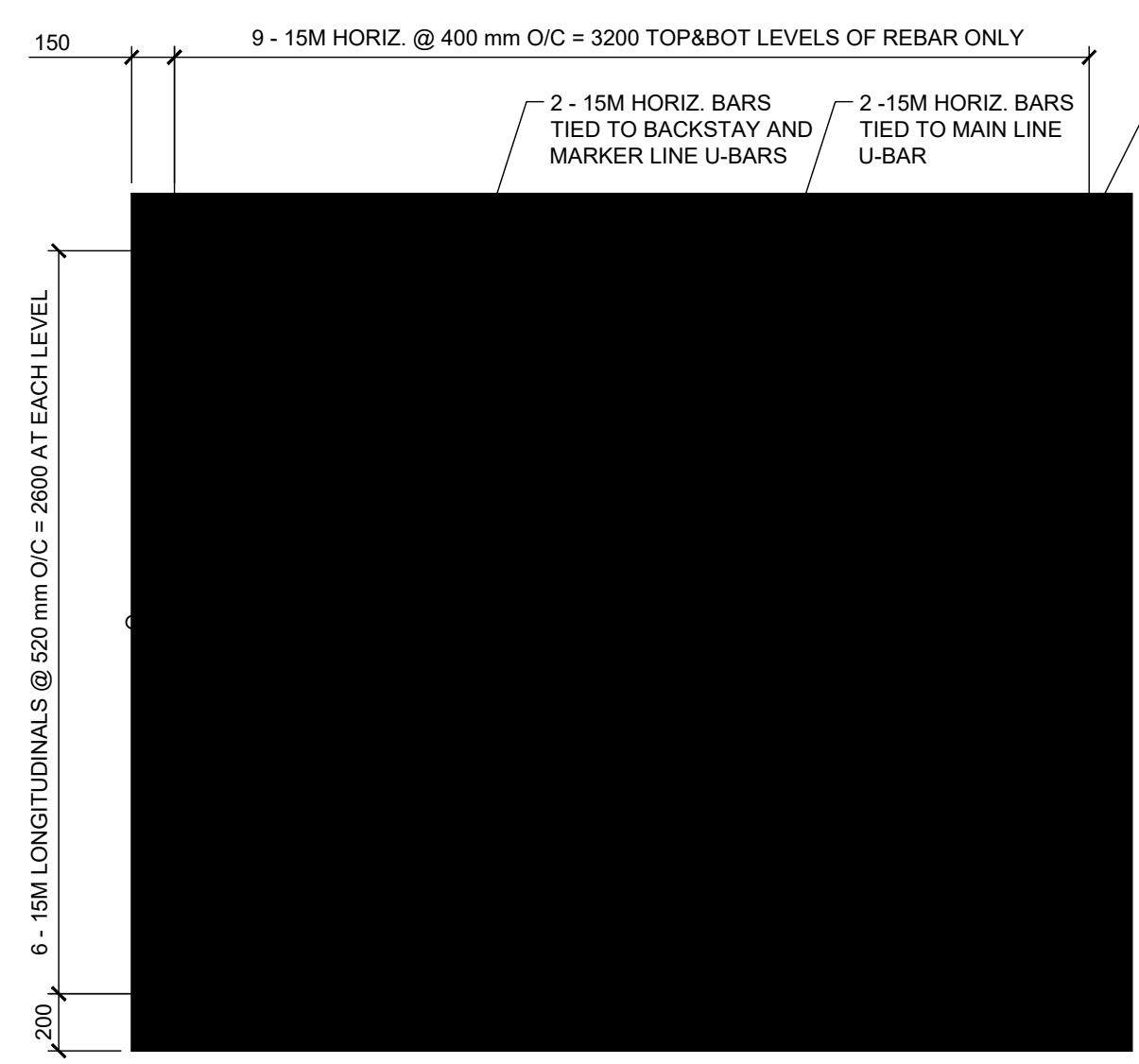
**1 CONCRETE MASS ANCHOR ARRANGEMENT**  
SCALE: 1 = 25



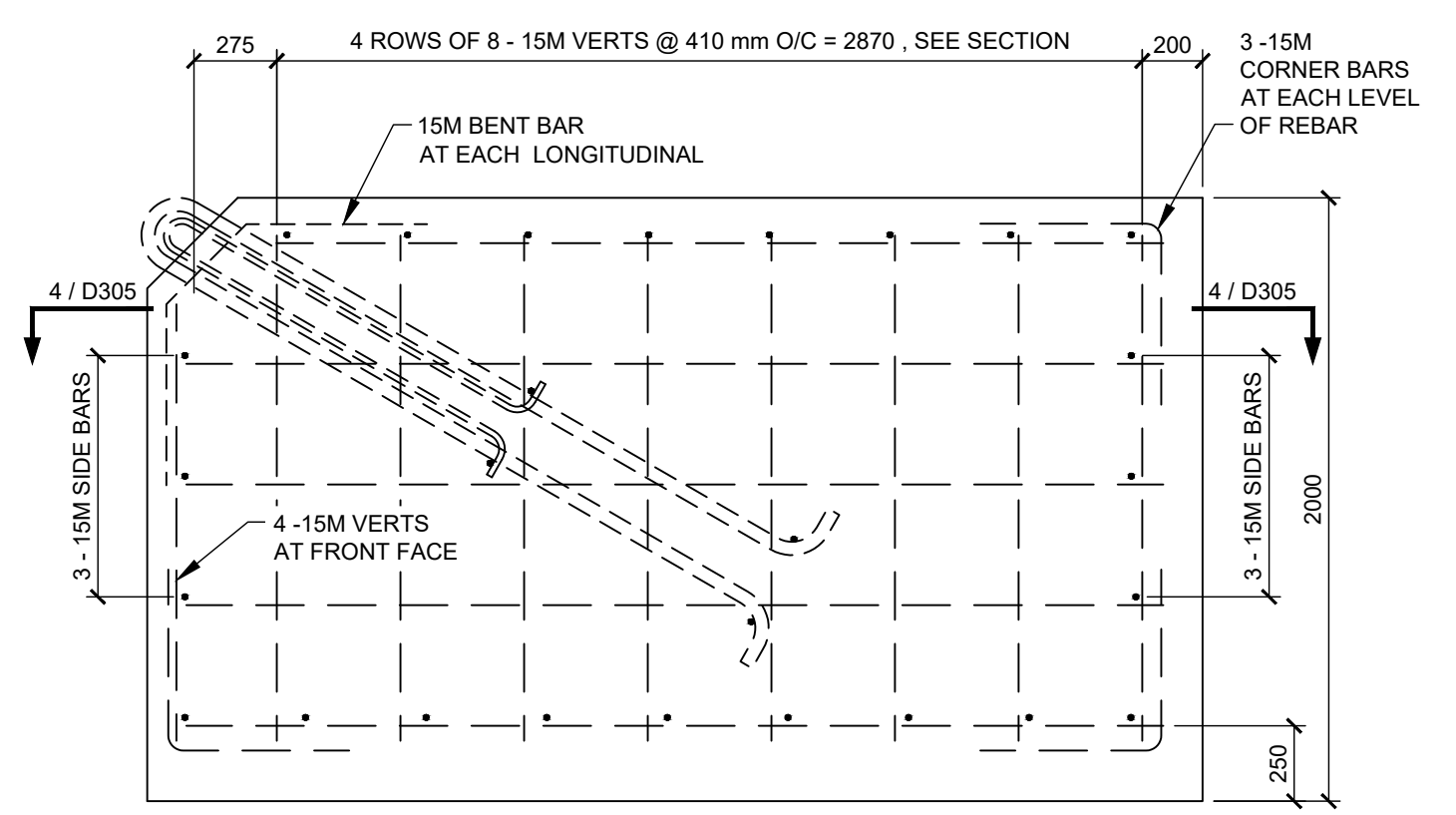
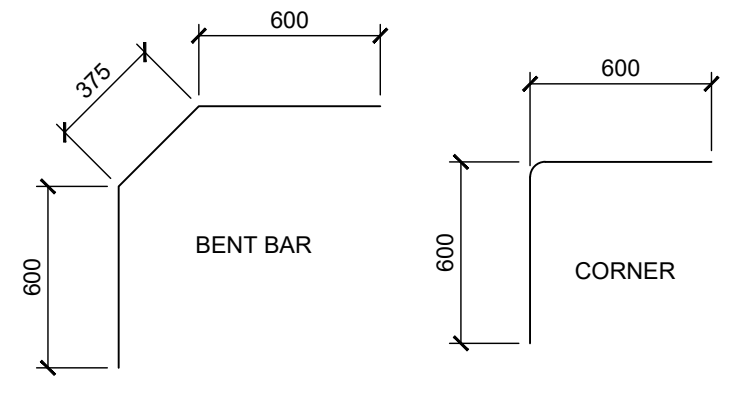
**2 MARKER AND BACKSTAY CABLE U-BAR ATTACHMENT**  
SCALE: 1 = 10



**3 MAIN CABLE U-BAR ATTACHMENT**  
SCALE: 1 = 10



**4 SECTION - CONCRETE MASS ANCHOR REINFORCEMENT**  
SCALE: 1 = 25



**5 ELEVATION - CONCRETE MASS ANCHOR REINFORCEMENT**  
SCALE: 1 = 25

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NOTE: DIMENSIONS ARE IN mm UNLESS NOTED OTHERWISE

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**07GH002 LITTLE SMOKY RIVER NEAR GUY**

**HYDROMETRIC CABLEWAY REBUILD CONCRETE ANCHOR REINFORCEMENT**

Drawing No. **D305**

Project Number 2531-00324-01

Rev. 0

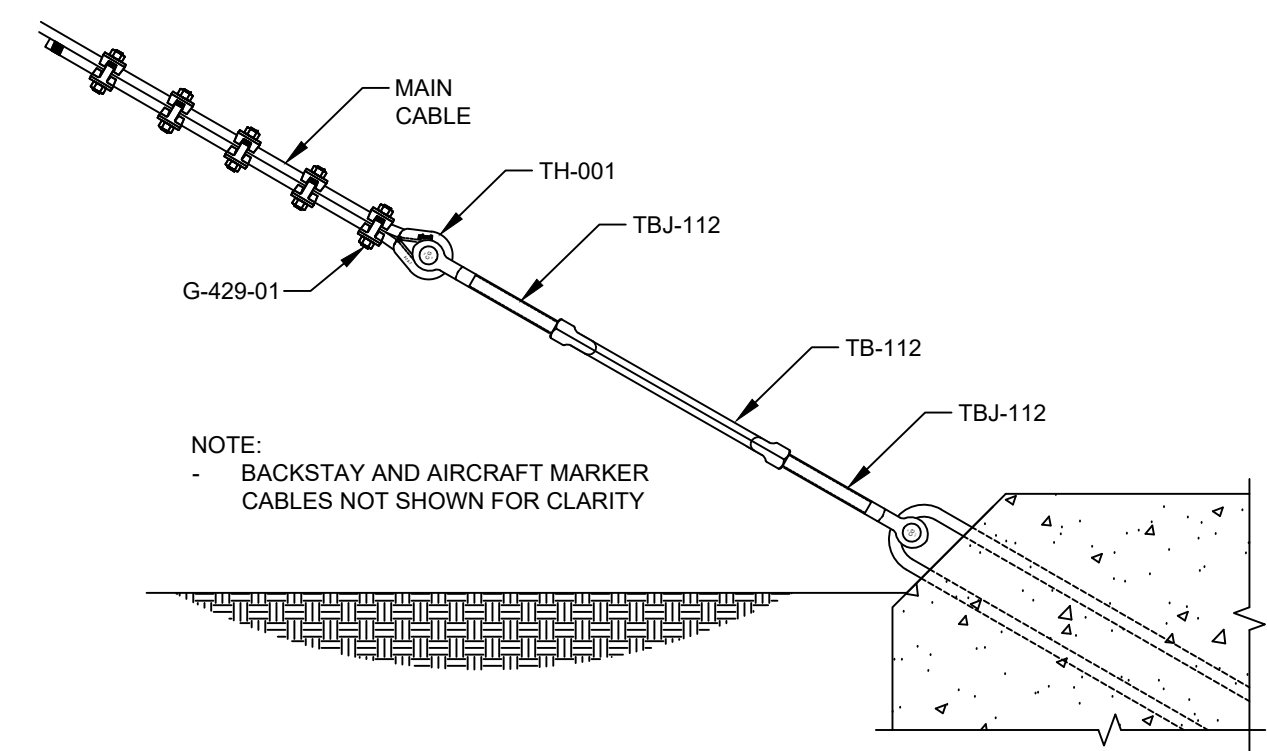
DESTROY ALL PRINTS BEARING PREVIOUS REVISION

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### CABLE MATERIALS

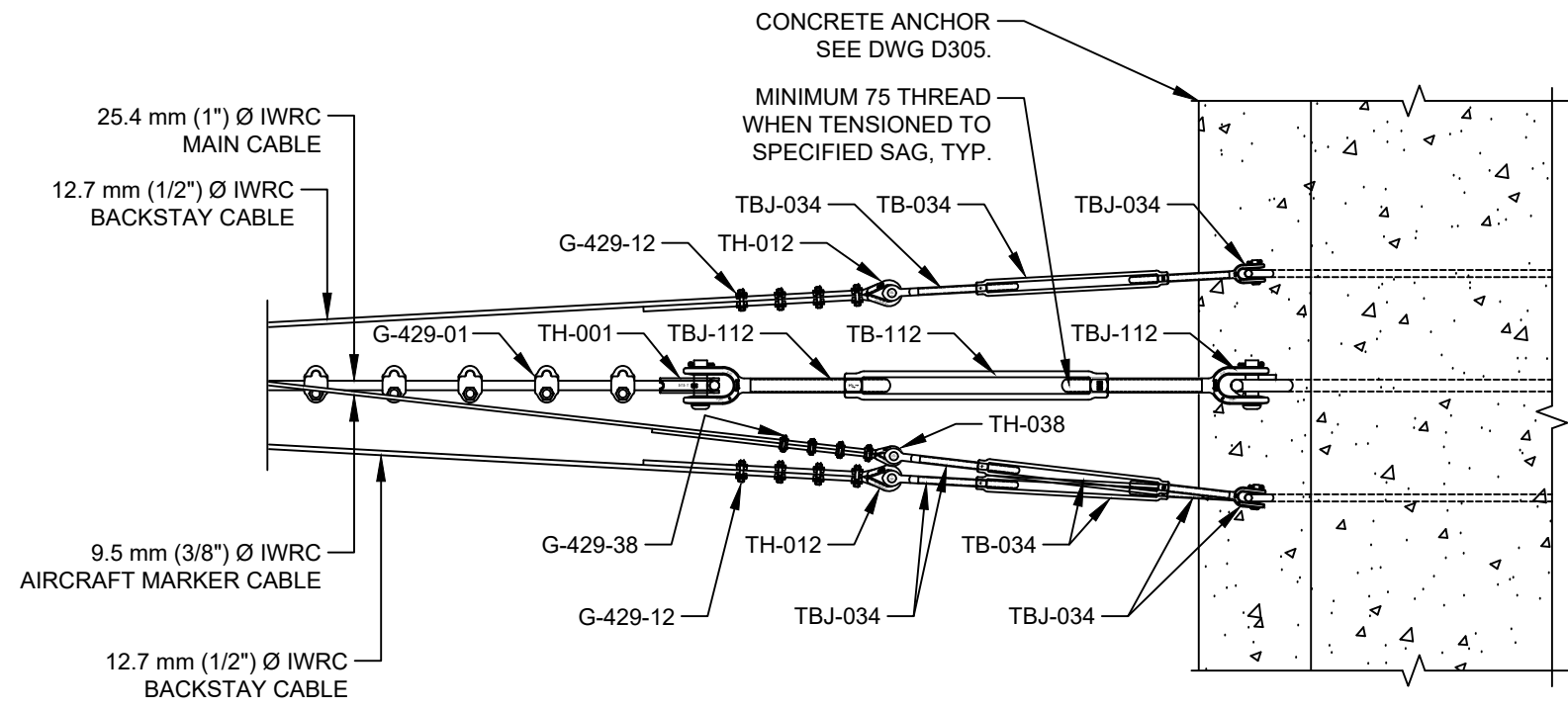
| ID #                               | DESCRIPTION                            |
|------------------------------------|--|
| G-429-01                           | CROSBY 429 GRIP CLIPS 25.4 mm (1") Ø   |
| G-429-12                           | CROSBY 429 GRIP CLIPS 12.7 mm (1/2") Ø |
| G-429-38                           | CROSBY 429 GRIP CLIPS 9.5 mm (3/8") Ø  |
| TH-001                             | THIMBLE 25.4 mm (1")                   |
| TH-012                             | THIMBLE 12.7 mm (1/2")                 |
| TH-038                             | THIMBLE 9.5 mm (3/8")                  |
| TB-112                             | TURNBUCKLE 38.1 mm (1 1/2")            |
| TB-034                             | TURNBUCKLE 19.1 mm (3/4")              |
| TBJ-112                            | JAW END 38.1 mm (1 1/2") Ø             |
| TBJ-034                            | JAW END 19.1 mm (3/4") Ø               |
| MAIN CABLE & SAFETY LOOP WIRE ROPE | 25.4 mm (1") Ø GALV. 6X26 EEIPS IWRC   |
| BACKSTAY CABLE WIRE ROPE           | 12.7 mm (1/2") Ø GALV. 6X26 EIPS IWRC  |
| MARKER CABLE WIRE ROPE             | 9.5 mm (3/8") Ø GALV 6X26 EEIPS IWRC   |

NOTE: DIMENSIONS IN mm UNLESS NOTED OTHERWISE.



### HOME SIDE - ELEVATION

SCALE 1:20



### HOME SIDE - PLAN

SCALE 1:20

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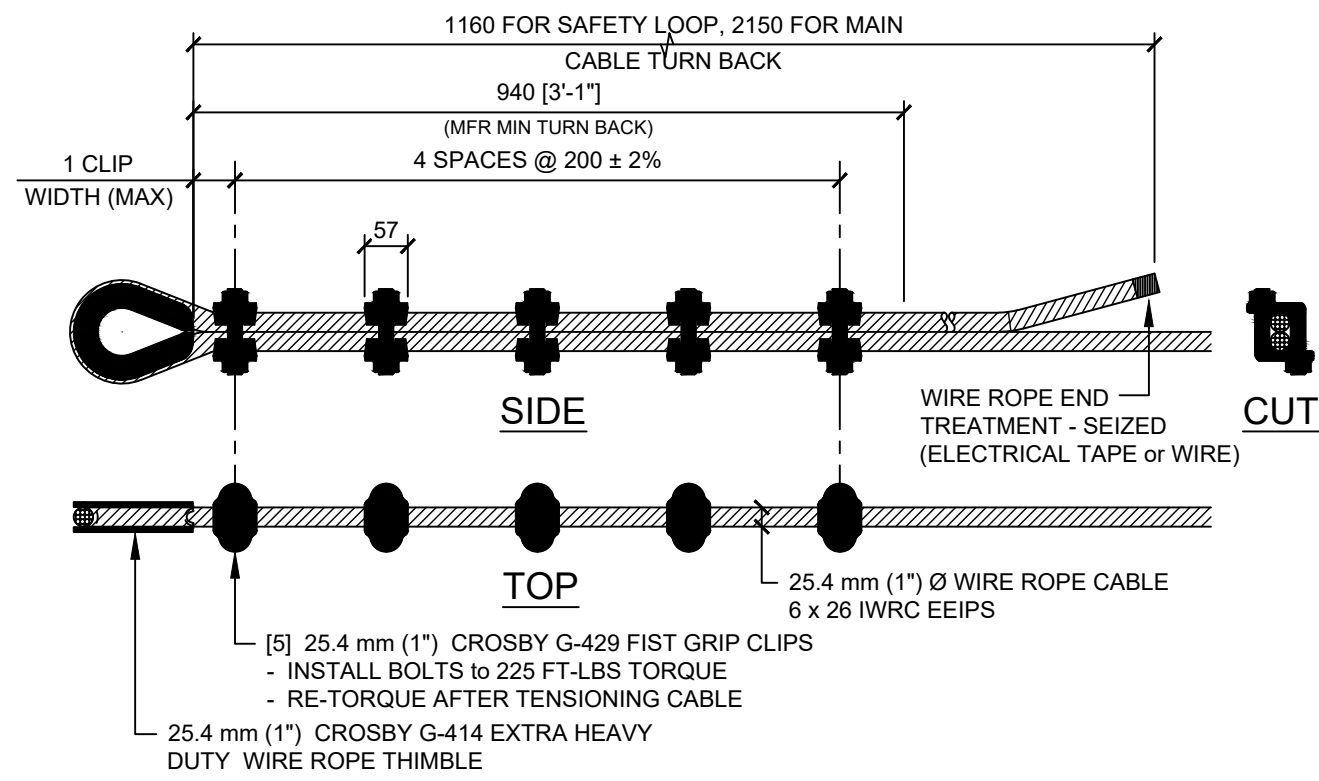
07GH002 LITTLE SMOKY RIVER NEAR GUY  
HYDROMETRIC CABLEWAY REBUILD  
CABLE HARDWARE ATTACHMENT

|                |      |
|----------------|------|
| Drawing No.    |      |
| <b>D306</b>    |      |
| Project Number | Rev. |
| 2531-00324-01  | 0    |

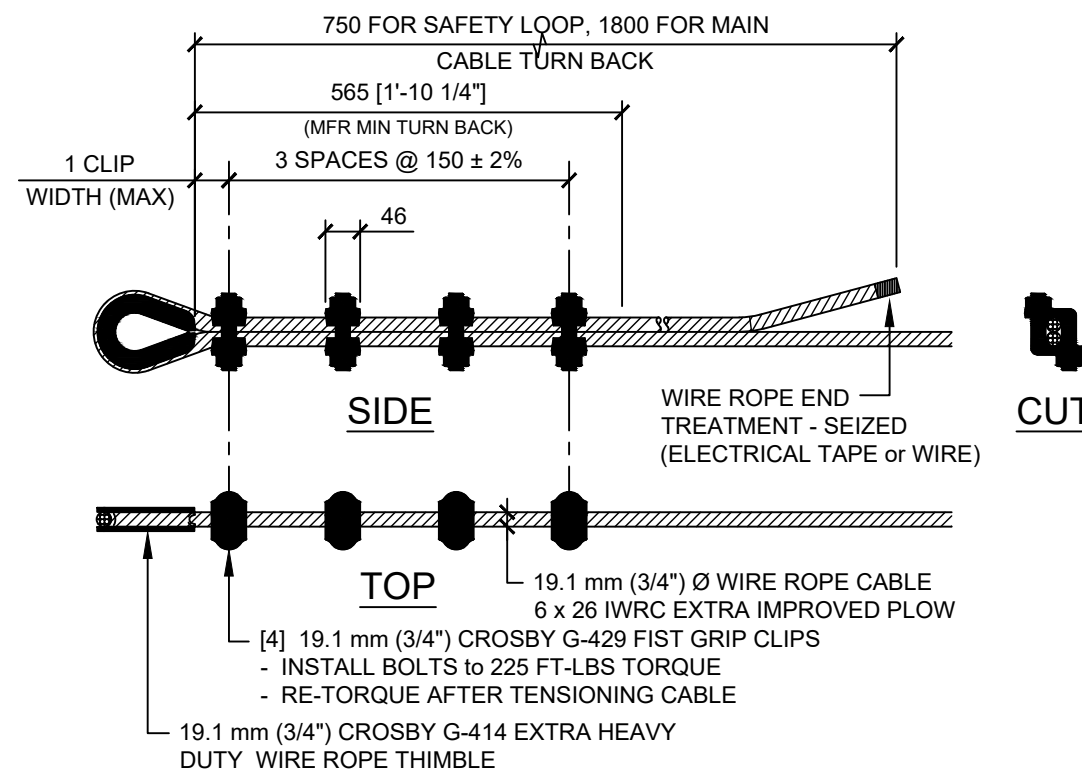
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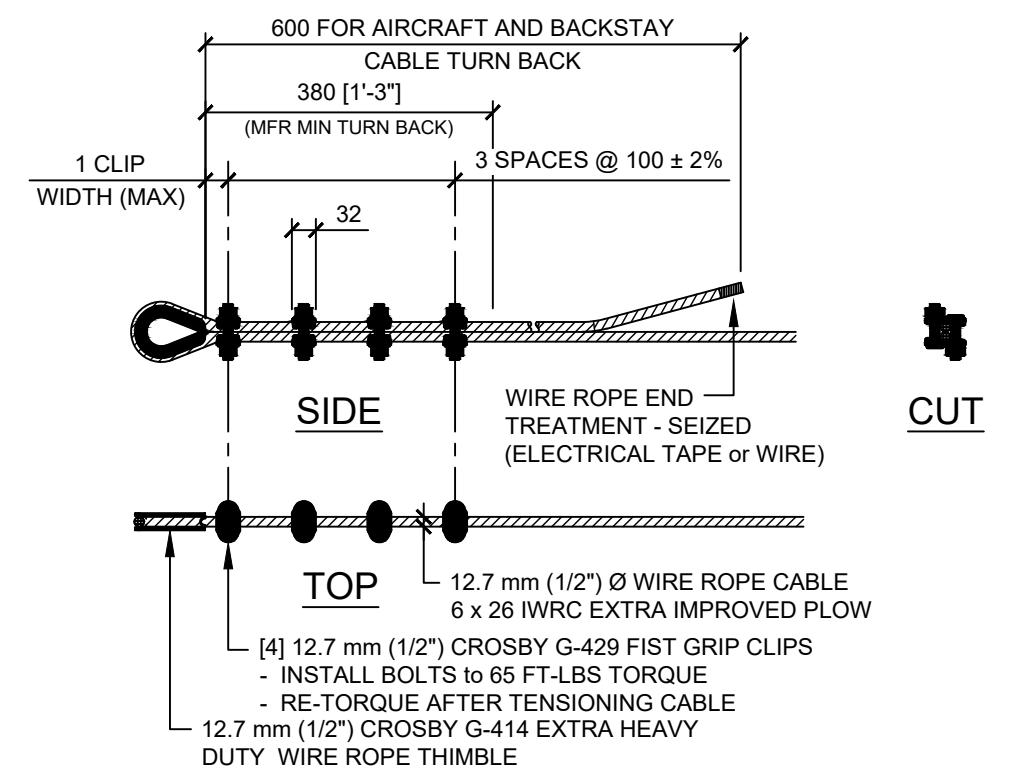
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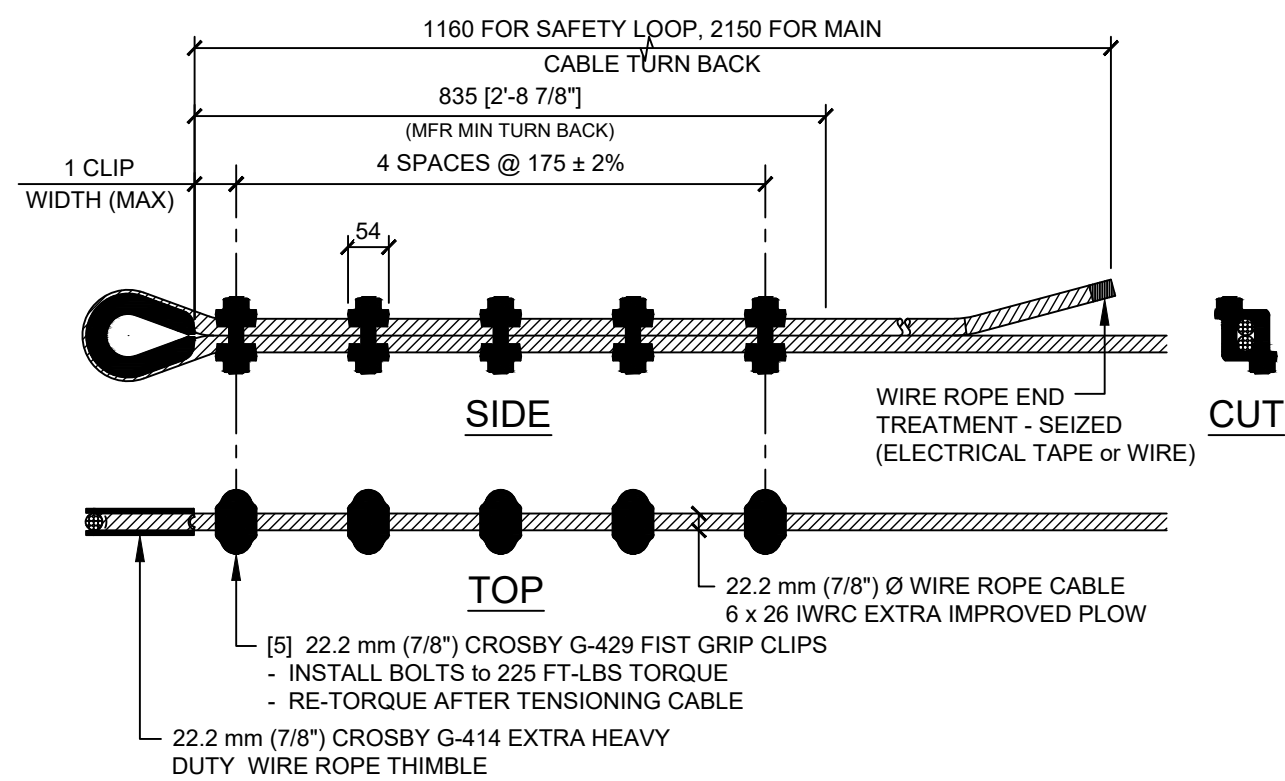
**1** 25.4 mm (1") Ø WIRE ROPE TERMINATION THIMBLE AND FIST GRIP CLIPS  
SCALE: 1 = 10



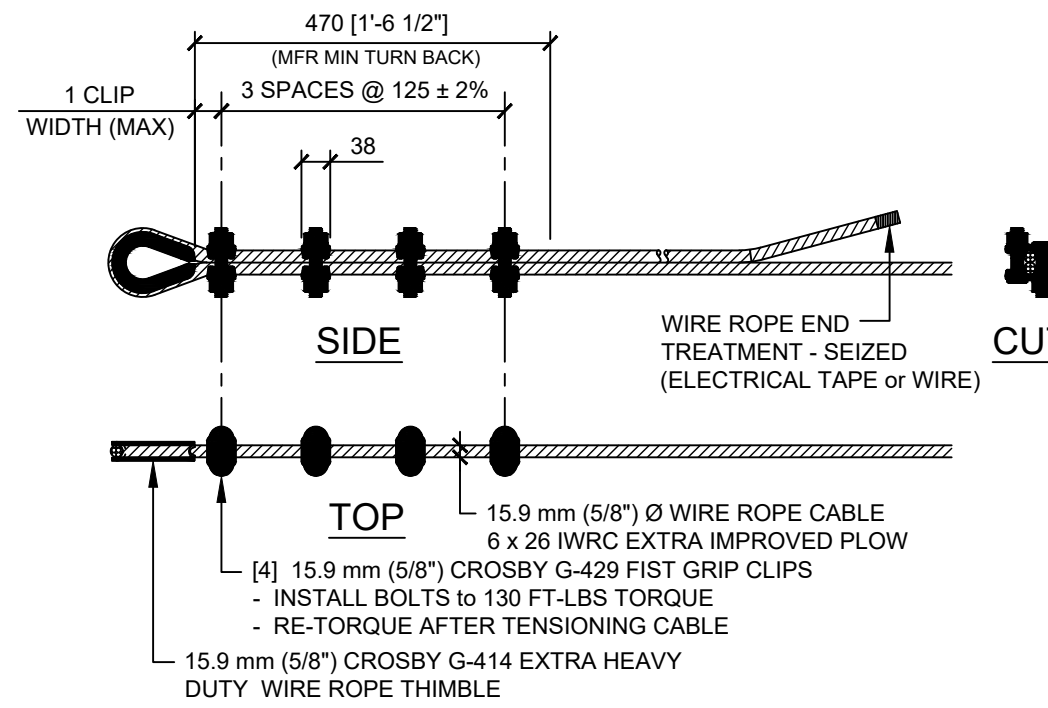
**3** 19.1 mm (3/4") Ø WIRE ROPE TERMINATION THIMBLE AND FIST GRIP CLIPS  
SCALE: 1 = 10



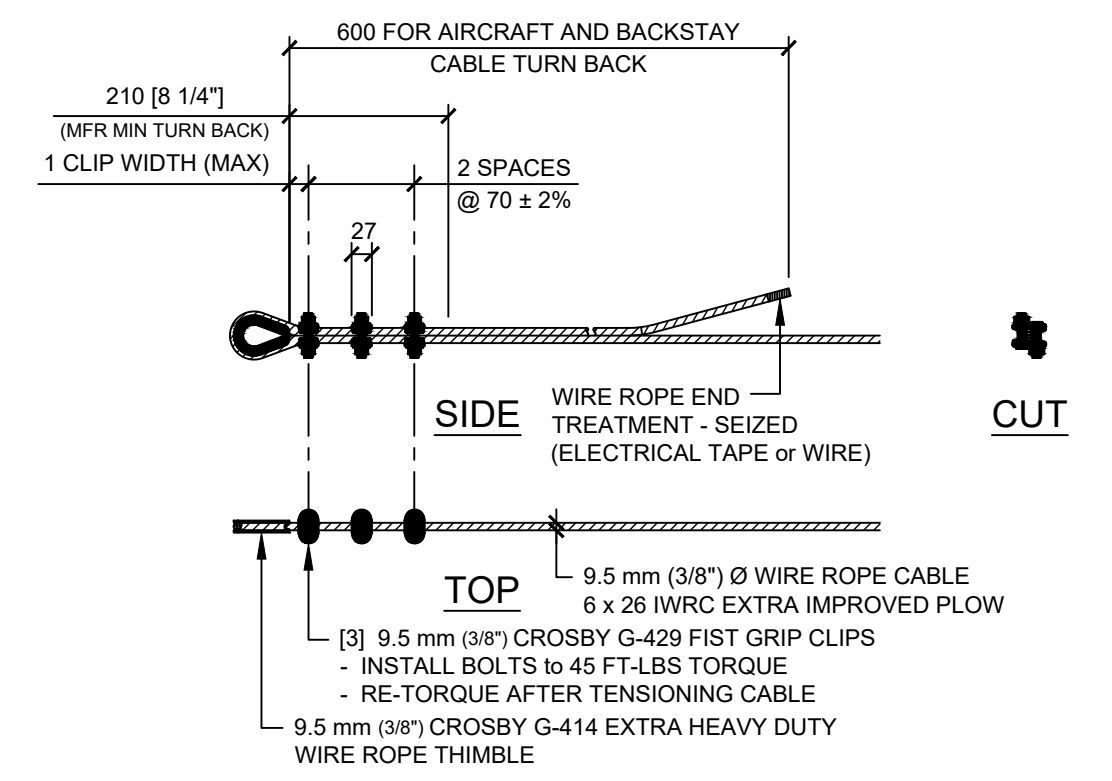
**5** 12.7 mm (1/2") Ø WIRE ROPE TERMINATION THIMBLE AND FIST GRIP CLIPS  
SCALE: 1 = 10



**2** 22.2 mm (7/8") Ø WIRE ROPE TERMINATION THIMBLE AND FIST GRIP CLIPS  
SCALE: 1 = 10



**4** 15.9 mm (5/8") Ø WIRE ROPE TERMINATION THIMBLE AND FIST GRIP CLIPS  
SCALE: 1 = 10



**6** 9.5 mm (3/8") Ø WIRE ROPE TERMINATION THIMBLE AND FIST GRIP CLIPS  
SCALE: 1 = 10

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**07GH002 LITTLE SMOKY RIVER NEAR GUY**  
**HYDROMETRIC CABLEWAY REBUILD**  
**CABLE TERMINATION DETAILS**

Drawing No.

**D501**

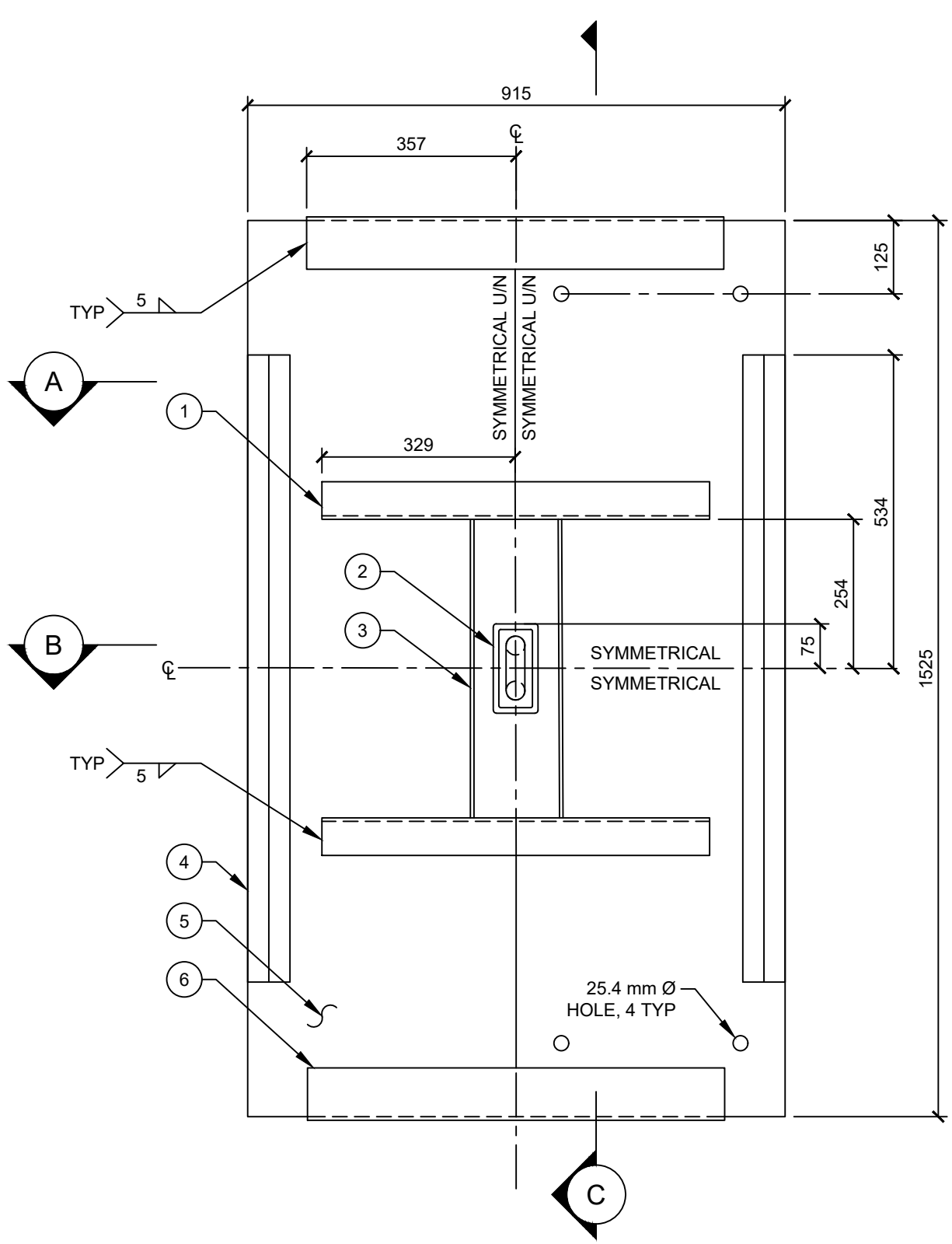
Project Number  
2531-00324-01

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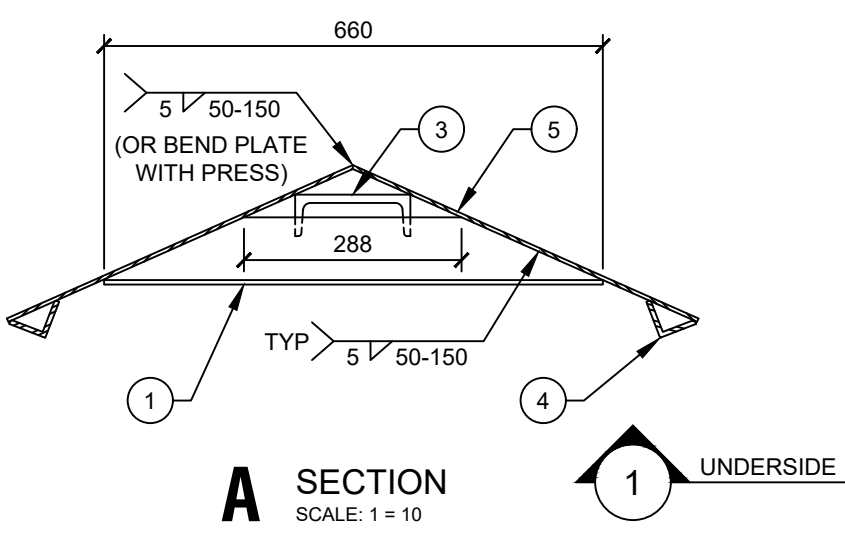
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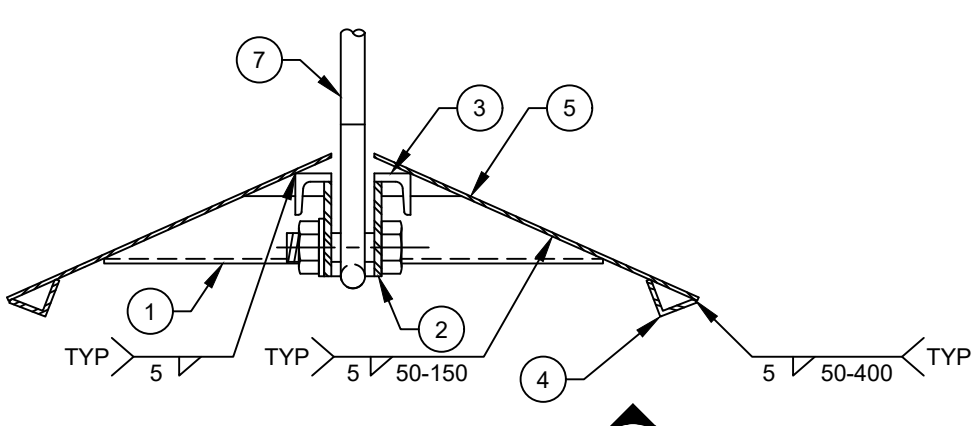
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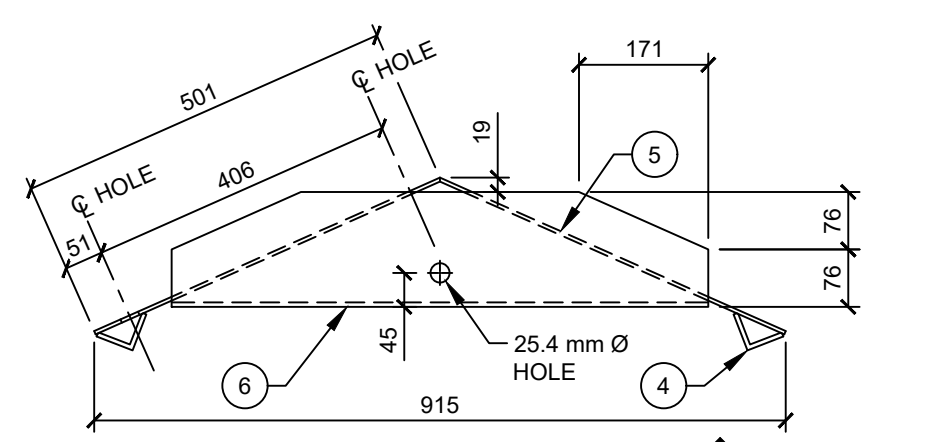
**1** UNDERSIDE OF ANCHOR PLATE  
SCALE: 1 = 10



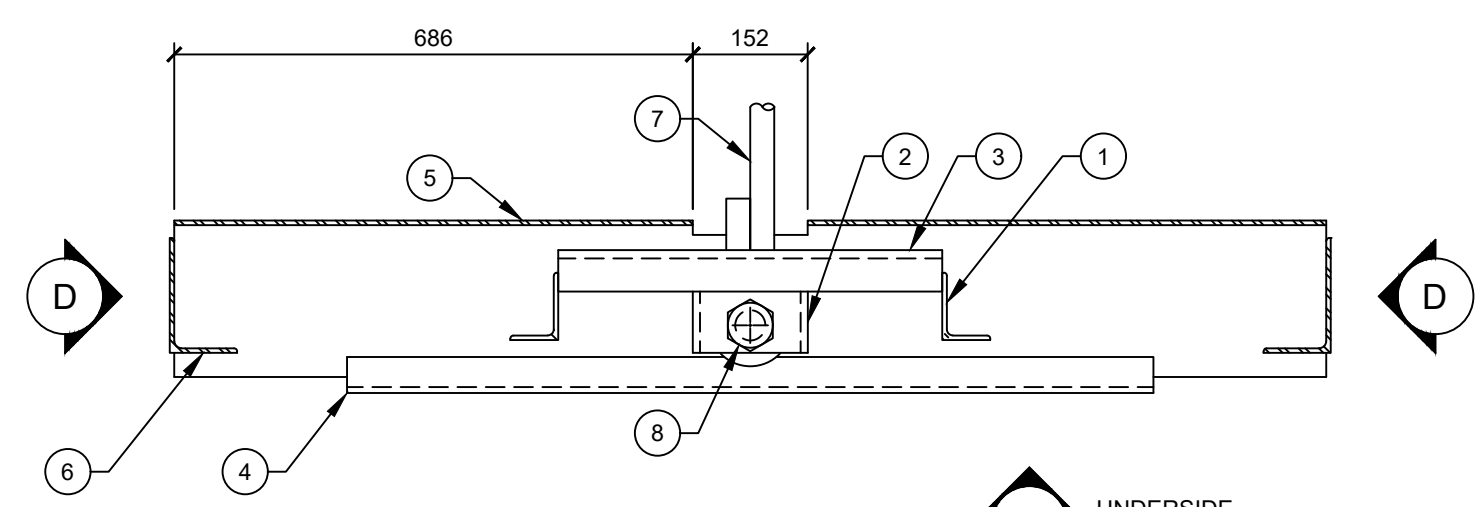
**A** SECTION  
SCALE: 1 = 10



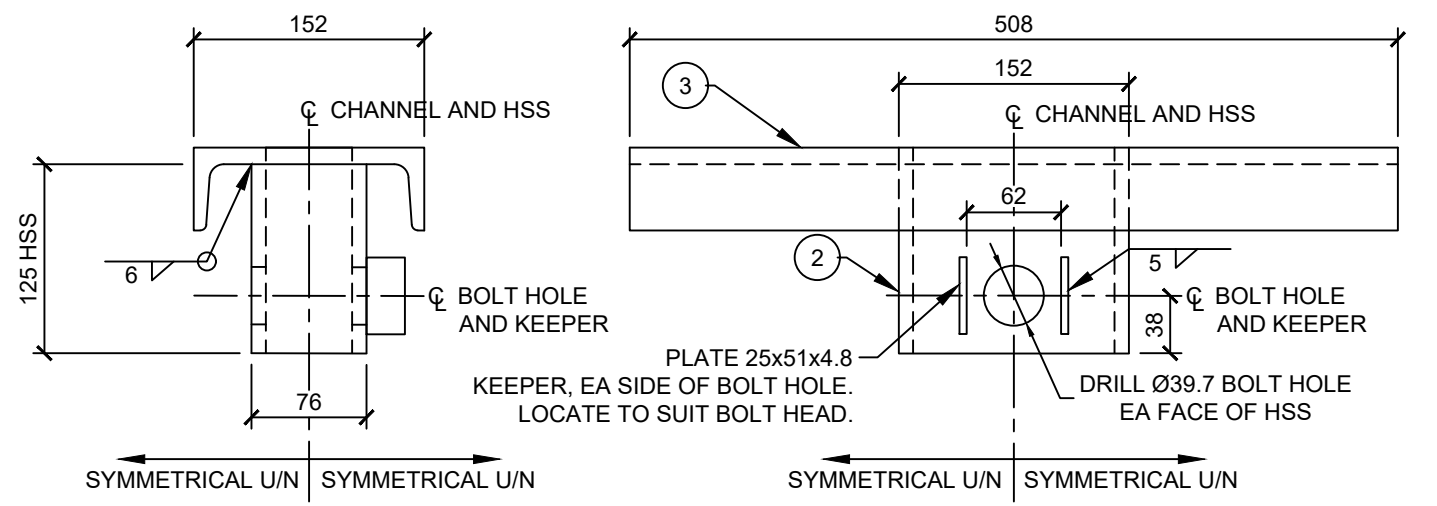
**B** SECTION  
SCALE: 1 = 10



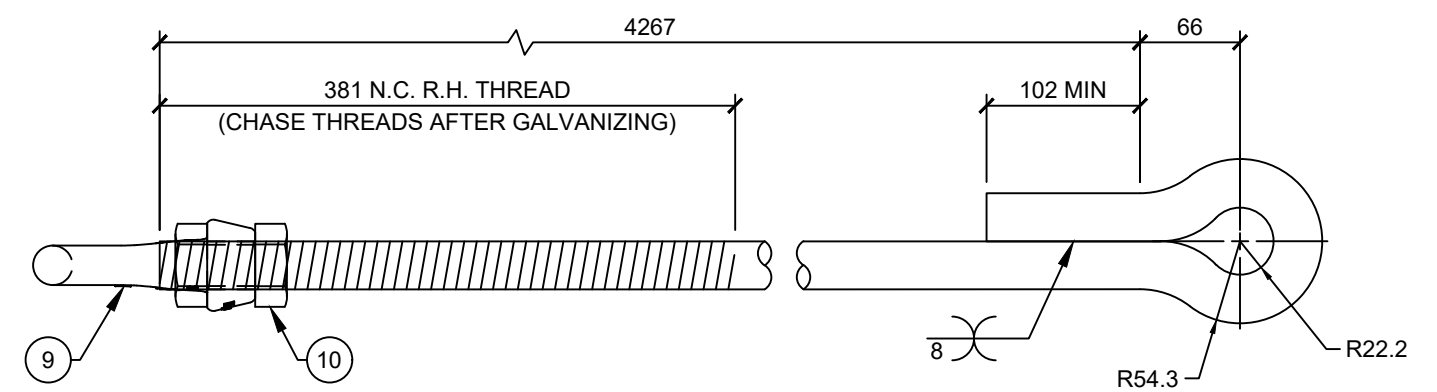
**D** END VIEW  
SCALE: 1 = 10



**C** SECTION  
SCALE: 1 = 10



**2** DETAIL  
SCALE: 1 = 5



**3** DETAIL  
SCALE: 1 = 5

| LIST OF QUANTITIES |          |  |
|--------------------|----------|--|
| ITEM               | QUANTITY | DESCRIPTION                                    |
| 1                  | 2        | L89x89x6.4 ANGLE - 660 LONG                    |
| 2                  | 1        | HSS152x76x9.5 TUBE SECTION - SEE DETAIL 2      |
| 3                  | 1        | C150X19 CHANNEL - 508 LONG - SEE DETAIL 2      |
| 4                  | 2        | L51x51x6.4 ANGLE - 1067 LONG                   |
| 5                  | 2        | 4.8 THK PLATE - 501 WIDE x 1525 LONG           |
| 6                  | 2        | L152x89x6.4 ANGLE - 711 LONG                   |
| 7                  | 1        | 31.8 Ø 300W ANCHOR ROD - SEE DETAIL 3          |
| 8                  | 1        | 38.1 Ø x 125 LONG B7 BOLT AND NUT - SEE NOTE 4 |
| 9                  | 1        | CROSBY #8 G-400 FORGED EYE NUT                 |
| 10                 | 2        | 31.8 Ø HEAVY HEX NUT                           |

- NOTES:**
- ALL PARTS TO BE GALVANIZED AFTER FABRICATION
  - ANCHOR ROD TO BE CSA 40.21-300W
  - WELDS TO USE E490XX (E70XX) ELECTRODES
  - DIMENSIONS ARE IN mm UNLESS NOTED OTHERWISE

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**07GH002 LITTLE SMOKY RIVER NEAR GUY**

**HYDROMETRIC CABLEWAY REBUILD STEEL ANCHOR PLATE AND ROD**

Drawing No. **D2812**

Project Number 2531-00324-01

Rev. 0

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