APPLICATION FOR PLANNING APPROVAL

APPLICATION NO: DA-2020-438

NAME OF APPLICANT: Visionstream

PROPOSAL: Telecommunications facility antenna and ancillary components

LOCATION: Lot 1/57 Blue Gate Road, Margate (CT 131004/2)

Any representation must be lodged in writing with the General Manager, Locked Bag 1, Kingston 7050 or by email to kc@kingborough.tas.gov.au by 2 October 2020.
# DEVELOPMENT APPLICATION

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<thead>
<tr>
<th><strong>Application Number:</strong></th>
<th>DA-2020-438</th>
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<tbody>
<tr>
<td><strong>Proposed Development:</strong></td>
<td>Telecommunications facility antenna and ancillary components.</td>
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<td><strong>Location:</strong></td>
<td>Lot 1/57 Blue Gate Road, Margate (CT 131004/2)</td>
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<td><strong>Applicant:</strong></td>
<td>Visionstream</td>
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<td><strong>Responsible Planning Officer:</strong></td>
<td>Timothy Donovan</td>
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**Associated Documents:**

The following information regarding the application is available at Council offices:

- Application form
- Certificate of Title
- Planning Report
- ARPANSAE Electromagnetic Energy EME Report
Proposed Plans

Development Application: DA 2020-438
Plan Reference no.: P1
Date Received: 20/08/2020
Date placed on Public Exhibition: 19/09/2020
**SITE No: 7MGT-51-12-MAWE**  
**MARGATE WEST**  
**BLUE GATE RD**  
**MARGATE**  
**TAS 7054**  
**RFNSA No: 7054007**

**Australia's broadband network**

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**DATE OF ISSUE**

**DRAWING PACKAGE VERSION**

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**GENERAL**

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<tr>
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<tbody>
<tr>
<td>SITE No: 7MGT-51-12-MAWE</td>
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<tr>
<td>SITE SPECIFIC NOTES</td>
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<tr>
<td>OVERALL SITE PLAN</td>
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<tr>
<td>SITE SETUP PLAN</td>
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<td>SITE ELEVATION</td>
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**ELECTRICAL**

**RF AND TX CONFIGURATIONS**

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<tr>
<td>SITE No: 7MGT-51-12-MAWE</td>
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<tr>
<td>NBN ANTENNA CONFIGURATION 1 OF 2</td>
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<td>NBN ANTENNA CONFIGURATION 2 OF 2</td>
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<td>NBN ANTENNA SETUP PLAN</td>
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**STRUCTURAL / CIVIL**

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**MONOPOLE DOCUMENTATION**

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**NBN STANDARD DOCUMENTS**

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<tr>
<td>NBN-STD-001</td>
<td>STANDARD CONSTRUCTION NOTES</td>
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<tr>
<td>NBN-STD-007-SH1T</td>
<td>LENS ANTENNA SHEET 1 BRACKET DETAILS</td>
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<td>NBN-STD-007-SH1T</td>
<td>LENS ANTENNA SHEET 2 AZIMUTH ADJUST DETAILS</td>
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<td>NBN-STD-010</td>
<td>STANDARD CABLE LADDER WATERFALL DETAILS</td>
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<td>NBN-STD-018-SH1T</td>
<td>STANDARD SITE EARTHING - MONOPOLE</td>
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<tr>
<td>NBN-STD-040-SH1T</td>
<td>STANDARD EARTHING BAR DETAILS</td>
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<tr>
<td>NBN-STD-053-SH1T</td>
<td>TSC ALLOCATION TABLE - SHEET 2</td>
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<td>NBN-STD-079-SH1T</td>
<td>STANDARD NBN ANTENNA EME PATTERNS - LLPOY11100, G1, G2, G3, G4, G5, G6, G7, G8, G9</td>
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**REFERENCE DOCUMENTS**

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**DISTRIBUTION**

- **ERICSSON**
  - **MARITZA META**
  - **ROBYN TANG**

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**PROJECT SUMMARY**

**NBN GREENFIELD**

EXISTING NBN 45m HIGH INGAL MONOPOLE WITH CIRCULAR HEADFRAME

EXISTING NBN OUTDOOR CABINETS ON CONCRETE SLAB ON GROUND

**NBN EXPANSION (R03-7HOZ-7MGT-5112):**

2.3GHz OVERLAY

TRANSMISSION UPGRADE

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**Development Application: DA 2020-438**  
**Plan Reference no.: P1**  
**Date Received: 20/08/2020**  
**Date placed on Public Exhibition: 19/09/2020**
SITE INFORMATION:

1. SITE ADDRESS
   BLUE GATE RD MARGATE TAS 7054.

2. GENERAL
   THE CONTRACTOR SHALL COMPLY WITH ALL RELEVANT NBN CONSTRUCTION STANDARDS, AUSTRALIAN STANDARDS AND SPECIFICATIONS.

3. SITE ACCESS
   SITE REQUIRED TO BE CONTACTED PRIOR TO ACCESSING SITE
   FROM THE CENTRE OF THE BLUE GATE RD TO THE EAST ON BLUE GATE RD TOWARDS BLUE GATE RD TO THE LEFT OF BLUE GATE RD FOR 500m. THEN LEFT ON BLUE GATE RD FOR 500m ON BLUE GATE RD AND THE PROPERTY IS ON LEFT HARD DRIVE THROUGH THE WORKSHOP FOR 500m TOWARDS THE SITE. NO PLACE INSTALLED UPON WITH ACCESS GATE LOCKING SYSTEM OFF.

4. EQUIPMENT
   NEW OUTDOOR CARRIERS 0-28 EXISTING INSTALLED WITH NEW CARRIERS.

5. STRUCTURE
   NEW 15m HIGH TEL MAST WITH CIRCULAR HEAD-TO-TAIL.

6. ANTENNA ACCESS
   ANTENNA ACCESS VIA MONOPOLE MOUNTED ACCESS LADDER WITH FULL ACCESS TO D/E H/A INSTALLATION.

7. EXISTING SERVICES
   THE CONTRACTOR SHALL IDENTIFY AND CONFIRM THE LOCATION OF ALL RELEVANT EXISTING SERVICES AS REQUIRED.

8. EXISTING SITE HAZARDS
   THE FOLLOWING HAZARDS ARE PRESENT ON SITE:
   - LATICE TOWER/MONOPOLE FOUNDATION IS DEEPER THAN 15m. BENCHING/SHORING MAY BE REQUIRED FOR ANY ASSOCIATED WORKS
   - OVERHEAD POWER ALONG ACCESS TRACK
   - DAM POLLUTION
   - SITE IN AREA OF ENVIRONMENTAL SIGNIFICANCE DUE TO THE PRESENCE OF SWIFT PARROTS IN THE AREA

9. ELECTRICAL SUPPLY
   6/8 kVA SITE ELECTRIC POWER AVAILABLE TO THE NBN INSTALLATION.

10. SITE EARTHING
    NBN EQUIPMENT AND STRUCTURE EARTHING IS TO BE INSTALLED IN ACCORDANCE WITH LATEST AS/NZS 1766, NBN STANDARD DRAWINGS NBN-STD-0008-SI71 AND NBN-STD-0021.

11. TRANSMISSION LINK
    REFER TO NBN ANTENNA CONFIGURATION ON DRAWING A1 FOR DETAILS.

12. WIND LOAD PARAMETERS

<table>
<thead>
<tr>
<th>REGION</th>
<th>TERRAIN CATEGORY</th>
<th>TOPOGRAPHIC MULTIPLIER</th>
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<tr>
<td>A3</td>
<td>2.0</td>
<td>1.25</td>
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13. SITE SIGNAGE REQUIREMENTS
    SITE HAS EXISTING MERCs AND NBN SIGNAGE.
    NBN EQUIPMENT SIGNAGE TO COMPLY WITH NBN RAN DOCUMENT AND NBN STANDARD DRAWINGS NBN-STD-0025.

14. SCOPE OF WORKS
    RF SCOPE
    - INSTALL PANEL ANTENNAS (6-0FF REMOVE) AND RRUS (6-0FF REMOVE). SWAP, MOVE, REPAN, FALLBACK EXISTING ANTENNAS (6-0FF) AND RRUS (6-0FF SWAP, 3-0FF MOVE). REFER A1 FOR DETAILS.
    - INSTALL STAND-OFF MOUNTS (6-0FF REMOVE, 1-0FF MOVE/RE-USE) FOR SECTOR 1
    - INSTALL LENS ANTENNA (6-0FF) AND RRUS (6-0FF NEW, 1-0FF RE-USE). REFER A1 FOR DETAILS
    - INSTALL LENS MOUNT (6-0FF)
    - INSTALL CANISTERS (6-0FF NEW, 1-0FF REMOVE), HYBRID CABLE AND RF TAILS
    TX SCOPE
    - TINDERBOX (MAIN)
      - INSTALL RAUS (6-0FF REMOVE, 2-0FF SWAP/MOVE) AND IPS SEP KITS (6-0FF REMOVE) ON EXISTING MOUNT AND FEEDER CABLES (6-0FF REMOVE)
    TINDERBOX (PARALLEL)
      - INSTALL PARABOLIC MOUNT (6-0FF)
      - INSTALL 6600 PARABOLIC ANTENNA ON NEW MOUNT
      - INSTALL RAUS (6-0FF) ON NEW MOUNT AND FEEDER CABLES (6-0FF)
    MISC. SCOPE
      - INSTALL GPS ANTENNA (6-0FF) AND FEEDER CABLE (6-0FF)

15. SITE SPECIFIC REQUIREMENTS
    - NBN CONTRACTOR TO PERFORM ON SITE MEASUREMENTS/PRE-CLIMBING TO CONFIRM PROPOSED/RELOCATED/EXISTING STEEL WORK IS FIT FOR PURPOSE FOR PANEL ANTENNAS AND PARABOLIC ANTENNAS BEING RELOCATED, SWAPED AND PROPOSED. THIS IS REQUIRED TO BE DONE PRIOR TO ORDERING MATERIAL AND FABRICATION.
    - RAIL ASSEMBLY PRIOR TO GALVANISING AND DELIVERY TO SITE TO ENSURE CORRECT FIT AND NUMBER OF PARTS
    - ROOF PITCH DEGREES (3:5) BENCHING SHORING NOT TO BE REQUIRED FOR 2/3 MOUNTED VERTICALS.
    - SITE IN AREA OF ENVIRONMENTAL SIGNIFICANCE DUE TO THE PRESENCE OF SWIFT PARROTS IN THE AREA.
NOTES:
1. PANEL ANTENNAS TO BE FACTORY COLOUR (LIGHT GREY).
2. REFER TO DRG A1 FOR ANTENNA AND RU DETAILS.
3. EXISTING VEGETATION NOT SHOWN FOR CLARITY.

SITE NO: 7MGT-51-12-MAWE
MARGATE WEST
BLUE GATE RD
MARGATE
TAS 7054

FOR CONSTRUCTION
VISIONSTREAM AUSTRALIA PTY LTD
20 Corporate Drive
Heatherton, VIC 3202
Tel- (03) 9258 5700 Fax- (03) 9563 7481
www.visionstream.com.au

NATIONAL BROADBAND NETWORK
ERICSSON

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Client: NATION
### NBN ANTENNA CONFIGURATION - 2300MHz

**Sector Symbol** | **Type** | **Dimension (HxWxD)** | **L Height** | **Azimuth (TN)** | **Elec Tilt Note** | **Mech Tilt** | **Antenna Action Required** | **Type** | **Overall Length** | **Canister Height** | **Feeder Action Required** | **Type** | **Location** | **L Height** | **Antenna Port** | **RRU Action Required** | **Length** | **Length** |
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<td>LLF339</td>
<td>1072x300x155</td>
<td>5.5m</td>
<td>15°</td>
<td>0°</td>
<td>MOVE</td>
<td>HAS HYBRID 6/6 MLI #23.5m</td>
<td>5.0m</td>
<td>5.5m</td>
<td></td>
<td>RE-USE</td>
<td>RRUS441</td>
<td>INSTALL</td>
<td>6.0m</td>
<td>6.2°</td>
<td></td>
<td>3.0m</td>
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<td>5.5m</td>
<td>15°</td>
<td>0°</td>
<td>MOVE</td>
<td>HAS HYBRID 6/6 MLI #23.5m</td>
<td>5.0m</td>
<td>5.5m</td>
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<td>RRUS441</td>
<td>INSTALL</td>
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<td>3.0m</td>
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<td>3</td>
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<td>195°</td>
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<td>REMOVE</td>
<td>HAS HYBRID 3/2 MLI #19.6m</td>
<td>5.0m</td>
<td>5.5m</td>
<td></td>
<td>REMOVE</td>
<td>RRUS441</td>
<td>INSTALL</td>
<td>6.0m</td>
<td>6.2°</td>
<td></td>
<td>3.0m</td>
<td>3.0m</td>
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<td>4</td>
<td>LLF339</td>
<td>1072x300x155</td>
<td>5.5m</td>
<td>15°</td>
<td>0°</td>
<td>REMOVE</td>
<td>HAS HYBRID 6/6 MLI #23.5m</td>
<td>5.0m</td>
<td>5.5m</td>
<td></td>
<td>REMOVE</td>
<td>RRUS441</td>
<td>INSTALL</td>
<td>6.0m</td>
<td>6.2°</td>
<td></td>
<td>3.0m</td>
<td>3.0m</td>
</tr>
<tr>
<td>5</td>
<td>ARGUS</td>
<td>1180x300x155</td>
<td>5.5m</td>
<td>190°</td>
<td>0°</td>
<td>REMOVE</td>
<td>HAS HYBRID 6/6 MLI #23.5m</td>
<td>5.0m</td>
<td>5.5m</td>
<td></td>
<td>REMOVE</td>
<td>RRUS441</td>
<td>INSTALL</td>
<td>6.0m</td>
<td>6.2°</td>
<td></td>
<td>3.0m</td>
<td>3.0m</td>
</tr>
</tbody>
</table>

### NBN LENS ANTENNA CONFIGURATION - 2300MHz

**Sector Symbol** | **Type** | **Dimension (HxWxD)** | **L Height** | **Azimuth (TN)** | **Elec Tilt Note** | **Antenna Action Required** | **Type** | **Overall Length** | **Canister Height** | **Feeder Action Required** | **Type** | **Location** | **L Height** | **Antenna Port** | **RRU Action Required** | **Length** | **Length** |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
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<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>MATHIS LENS MS-95PHP2-FME</td>
<td>150x150x100</td>
<td>4.0m</td>
<td>190°</td>
<td>INSTALL</td>
<td>HAS HYBRID 9/18 MLI #36.6m</td>
<td>5.0m</td>
<td>5.5m</td>
<td></td>
<td>INSTALL</td>
<td>RRUS441</td>
<td>INSTALL</td>
<td>6.0m</td>
<td>6.2°</td>
<td></td>
<td>3.0m</td>
<td>3.0m</td>
</tr>
<tr>
<td>4</td>
<td>MATHIS LENS MS-95PHM2-FME</td>
<td>150x150x100</td>
<td>4.0m</td>
<td>190°</td>
<td>INSTALL</td>
<td>HAS HYBRID 9/18 MLI #36.6m</td>
<td>5.0m</td>
<td>5.5m</td>
<td></td>
<td>INSTALL</td>
<td>RRUS441</td>
<td>INSTALL</td>
<td>6.0m</td>
<td>6.2°</td>
<td></td>
<td>3.0m</td>
<td>3.0m</td>
</tr>
</tbody>
</table>

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**Development Application:** DA 2020-438  
**Plan Reference no.:** P1  
**Date Received:** 20/08/2020  
**Date placed on Public Exhibition:** 19/09/2020
# NBN ANTENNA CONFIGURATION - 3400MHz

## RF Antenna Details

<table>
<thead>
<tr>
<th>SECTOR SYMBOL</th>
<th>TYPE</th>
<th>DIMENSION (IN mm)</th>
<th>AZIMUTH (TN)</th>
<th>ELEC TLT (IN DEGREES)</th>
<th>MECH TLT</th>
<th>ANTENNA ACTION REQUIRED</th>
<th>OVERALL LENGTH</th>
<th>CANISTER HEIGHT</th>
<th>FEEDER ACTION REQUIRED</th>
<th>RRU ACTION REQUIRED</th>
</tr>
</thead>
<tbody>
<tr>
<td>C</td>
<td>a</td>
<td>1500 x 1500</td>
<td>90</td>
<td>0°</td>
<td>0°</td>
<td>MOVE</td>
<td>60.6 m</td>
<td>5.5 m</td>
<td>MOVE</td>
<td>MOVE</td>
</tr>
<tr>
<td>D</td>
<td>a</td>
<td>1500 x 1500</td>
<td>135</td>
<td>0°</td>
<td>90°</td>
<td>MOVE</td>
<td>60.6 m</td>
<td>5.5 m</td>
<td>MOVE</td>
<td>MOVE</td>
</tr>
<tr>
<td>E</td>
<td>a</td>
<td>1500 x 1500</td>
<td>180</td>
<td>0°</td>
<td>0°</td>
<td>MOVE</td>
<td>60.6 m</td>
<td>5.5 m</td>
<td>MOVE</td>
<td>MOVE</td>
</tr>
</tbody>
</table>

## TX Antenna Details

<table>
<thead>
<tr>
<th>ANTENNA SYMBOL</th>
<th>TYPE</th>
<th>DIMENSION (IN mm)</th>
<th>AZIMUTH (TN)</th>
<th>DESTINATION</th>
<th>ANTENNA ACTION REQUIRED</th>
<th>FEDER ACTION REQUIRED</th>
<th>OVERALL LENGTH</th>
<th>ACTION REQUIRED</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>A</td>
<td>4000 x 4000</td>
<td>90</td>
<td>TIE DEP (FOR MILE)</td>
<td>EXISTING</td>
<td>REMOVE</td>
<td>47.6 m</td>
<td>2-OFF SWAP/MOVE</td>
</tr>
<tr>
<td>B</td>
<td>C</td>
<td>6000 x 390</td>
<td>110</td>
<td>TINDBOX (PARALLEL)</td>
<td>INSTALL</td>
<td>49.0 m</td>
<td>2-OFF REMOVE</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>E</td>
<td>100 x 100</td>
<td>90</td>
<td>EXISTING</td>
<td>EXISTING</td>
<td>4.5 m</td>
<td>E-1-TM</td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>KRE 101 2182/1</td>
<td>969 x 96</td>
<td>90</td>
<td>INSTALL</td>
<td>10F5-50</td>
<td>6.5 m</td>
<td>INSTALL</td>
<td></td>
</tr>
</tbody>
</table>

## Main Feeder Details

- **NOTE:** 1. EXISTING HYBRID CABLES ARE SHARING BETWEEN 2.30Hz & 3.4GHz

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Development Application: DA 2020-438  
Plan Reference no.: PT  
Date Received: 20/09/2020  
Date placed on Public Exhibition: 19/09/2020
1. RAUS and BRUS NOT SHOWN FOR CLARITY EXCLUDING LENS ANTENNA.
2. SECTOR 6 TO RE-USE SECTOR 3 STAND-OFF MOUNT.
3. SECTOR 1 TO MOVE/RE-USE EXISTING STAND-OFF MOUNT.

Development Application: DA 2020-438
Plan Reference no.: P1
Date Received: 20/08/2020
Date placed on Public Exhibition: 19/09/2020.