Appendix – Forms A to I

Technical Specification

MRTS300 Construction of Boat Ramps

March 2024

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# Quality Plan Forms

## Form A – Supply of Materials – Procurement Plan

This form shall be submitted with the Contract Quality Plan to demonstrate supply compliance for these materials.

|  |  |
| --- | --- |
| Construction Material | Supplier |
| Reinforcing steel: |  |
| Geotextile (Brand / Type): |  |
| Geogrid (Brand / Type)¹: |  |
| Precast concrete planks: |  |
| 75 mm crushed rock²: |  |

1. Also supply a physical sample of two pieces of geogrid lapped and braided to specification.
2. Attach the grading report for the 75 mm nominal crushed core rock.

## Form B – Crushed (Core) Rock Compaction Plan

This form shall be submitted with the Contract Quality Plan (when indicated in the Annexure) to detail the compaction of the rock core (when required).

|  |  |
| --- | --- |
| Vibration equipment: (for rock core) | Type: |
| Quantity: |
| Plan and longitudinal section of lifts: (Attach a separate diagram(s) if required) |  |
| Method of spreading rock: (prior to compaction) |  |
| Method of transferring vibration equipment: (to core lifts) |  |
| Method of determining compaction: |  |

## Form C – Concreting Preparation Plan

This form shall be submitted as an element of the Contract Quality Plan to demonstrate compliance with the specifications and to prevent Contractor caused delays with material approvals.

|  |  |  |  |
| --- | --- | --- | --- |
| Item | | Comments | |
| Transport time: (from mixer charging to placement) | minutes | Complies? | |
| Yes | No  add request for relaxation |
| Concrete vibration equipment: | Type: | | |
| Quantity: | | |
| Proposed curing compound: |  | | |
| Water source: (for cleaning reinforcement prior to concrete pour) |  | | |
| Placement method: (from truck to insitu formwork) |  | | |
| Concrete design mix: | Append the concrete design mix (1 page only).  The aggregate test results are not required when the materials are supplied under the Quarry Registration Scheme). | | |
| Aggregate grading report: | This is not required for materials supplied under the Quarry Registration Scheme when the QRS numbers are listed on the design mix. | | |

Placement plan

Amend this Plan to reflect project specific:

* Cast insitu concrete elements (number of lanes, and Type and number of slabs / elements).
* Stages of concrete works.

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Slab 1 | Slab 2 | Slab 3 |  |  |  |  |  |  |  |  |  | Lane 1 |
|  |  |  |  |  |  |  |  |  |  |  |  | Lane 2 |
|  | F/W Abutment | |  |  |  |  |  |  |  |  |  | Lane 3 |
|  |  |  |  |  |  |  |  |  |  |  |  | Lane 4 |
|  |  |  |  |  |  |  |  |  |  |  |  | Lane 5 |

# Checklist Forms

## Form D – Notification of approaching Hold Point Release Request / Witness Point

This form can be emailed with the subject line:

"CNxxxxx approaching [HP / WP] Clause [insert Cl #]"

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Contract Number: | |  | | This Advice | Advisory Date | Expected Date |
| Clause | Hold Point | | Witness Point |  | Click or tap to enter a date. | Click or tap to enter a date. |
| 7.8 | Start of Works | |  |  | Click or tap to enter a date. | Click or tap to enter a date. |
| 8.11 |  | | Placement of geotextile and geogrid |  | Click or tap to enter a date. | Click or tap to enter a date. |
| 8.12.3 |  | | Compaction |  | Click or tap to enter a date. | Click or tap to enter a date. |
| 11.5.4 | Inspection of formwork and reinforcement prior to concrete pour | |  | Use: Form F – Concrete pre-pour -  Hold Point Release Request | | |
| 13.2 |  | | Footings (Grouted shoulders) |  | Click or tap to enter a date. | Click or tap to enter a date. |
| 13.4 | Trial section of fully grouted shoulders | |  |  | Click or tap to enter a date. | Click or tap to enter a date. |
| 15.1 | Progress As-constructed Level Survey | |  |  | Click or tap to enter a date. | Click or tap to enter a date. |
| 16 | Partial Completion, Practical Completion, and Disestablishment | |  |  | Click or tap to enter a date. | Click or tap to enter a date. |

## Form E – Start of Works – Hold Point Release Request

This form shall be submitted with evidence prior to commencing works.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Contract Number: |  | | Request Date: Click or tap to enter a date. | |
| Item | | Status | | Comments |
| Ready | N/A |
| Environment | | | | |
| Copies of the (C)EMP and environmental approvals are onsite. | |  |  |  |
| Defined limits of work areas or limits of clearing have been identified and marked. | |  |  |  |
| Defined environmental management controls have been implemented. | |  |  |  |
| Environmental Incident Response Kit: | | | | |
| Silt curtain | |  |  |  |
| Floating hydrocarbon containment boom | |  |  |  |
| Oil spill response kit | |  |  |  |
| Safety | | | | |
| Impalement protection star picket caps. | |  |  |  |
| Special PPE for working near, in, on or under water (minimum): | | | | |
| Protective headwear | |  |  |  |
| Protective footwear | |  |  |  |
| Hi visibility clothing | |  |  |  |
| Site Compound | | | | |
| The site camera is established and accessible. | |  |  |  |
| Adjacent services have been located and marked. | |  |  |  |
| The site compound has been established. | |  |  |  |
| Traffic control (landside). | |  |  |  |
| Traffic control (water side). | |  |  |  |

## Form F – Concrete pre-pour - Hold Point Release Request

A separate form shall be used and submitted for each element.

Section A (unshaded sections) shall be submitted with Form D.

Section A (shaded section) and Section B shall be completed with the pour and submitted with the Concrete Quality Records.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Contract Number: | |  | | | | Request Date: Click or tap to enter a date. | | | |
| Section A: This section shall be submitted by the Contractor with sufficient information to release the Hold Point prior to the proposed concrete pour. | | | | | | | | | |
| Slab number / location / volume | | | | | /     /     m³ | | | | |
| Proposed date and time of pour | | | | | Click or tap to enter a date. Time: | | | | |
| Placement method (from agitator truck to insitu formwork): | | | | | | |  | | |
| Vibration equipment (type and quantity): | | | | | | |  | | |
| Proposed and actual concrete delivery schedule | | | | | | | | | |
| This section to be completed with the notification to the Administrator. | | | | | This section to be completed by the Contractor on the day of the concrete pour. | | | | |
| Truck # | Proposed volume | | Scheduled delivery time | | Actual delivery time | | | Batched time | Slump (by concrete tester) |
|  |  | |  | |  | | |  |  |
|  |  | |  | |  | | |  |  |
|  |  | |  | |  | | |  |  |
| Section B: This section shall be completed by the Contractor on the day of the concrete pour. | | | | | | | | | |
| Formwork and reinforcement approved by Transport and Main Roads / MSQ | | | | Yes | | | | | |
| Hold Point has been released | | | | Yes  **Proceed with concrete pour** | | | | No  **Concrete pour cannot proceed** | |
| Reinforcement cleaned with fresh water before the pour | | | | Yes | | | | No | |
| Curing compound applied | | | | Yes | | | | No | |
| Date of formwork strip | | | | Click or tap to enter a date. | | | | | |

## Form G – Progress as-constructed level survey – Hold Point Release Request

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Contract Number: |  | | | Lane(s): | |  | | Date: Click or tap to enter a date. | | |
| Surface | | Chainage | Levels | | | | Tolerance | | Complies | |
| Design | | As Con | | Yes | No |
| Connection of slab / Type 1 anchor beam to planks | |  |  | |  | | +10 /- 10 | |  |  |
| Chainage = L/4 | |  |  | |  | | +10 /- 10 | |  |  |
| Chainage =L/2 | |  |  | |  | | +20 /- 20 | |  |  |
| Chainage = L3/4 | |  |  | |  | | +20 /- 50 | |  |  |
| Chainage = L\* | |  |  | |  | | +20 /- 100 | |  |  |

## Form H – Lane reopening – Hold Point Release Request

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Contract Number: |  | Lane(s): |  | | | Date: Click or tap to enter a date. | |
| Item | | | | Status | | | Comments |
| **Ready** | **N/A** | |
| Adjacent shoulders (if applicable) are fully and correctly constructed, and safely trafficable for pedestrians and vehicles (if wheels depart the ramp lane). | | | |  |  | |  |
| The Type T4000 end plank (if applicable) is installed. | | | |  |  | |  |
| The bolt recesses at all plank connections in the lane(s) are grouted. | | | |  |  | |  |
| The water side approaches to the lane are clear of construction material obstructions hazardous to vessels. Construction material obstructions include: | | | | | | | |
| Excavated spoil and rock. | | | |  |  | |  |
| Waste materials from existing structures removed as part of the Works. | | | |  |  | |  |
| Imported rock for the core or armour protection. | | | |  |  | |  |
| Loose geotextile and geogrid. | | | |  |  | |  |

## Form I – As Constructed survey Checklist

|  |  |  |
| --- | --- | --- |
|  | Complies | Comments |
| Features | | |
| Slabs – construction joints,  finished surface heights at the corners (of each slab) |  |  |
| Precast planks – finished surface heights at the lower edge centrelines (each lane) of each precast plank |  |  |
| Signs (installed as part of the works)  (post locations and a photo of the signfaces) |  |  |
| Survey outputs | | |
| AutoCAD file (.dwg) |  |  |
| Associated files (.lin, .shp, .shx, .ctb and .stb) |  |  |
| Raw xyz (comma delimited) ASCII file with point code listing |  |  |
| Drawing requirements | | |
| Scale: standard engineering scale  Undistorted v:h |  |  |
| A3 sized media at full size drawing |  |  |
| Stacked General Arrangement (Top view and longitudinal section of centre lane) |  |  |
| Site plan (Top view) showing the survey features, generated contours, Eastings and Northings grid to the horizontal datum |  |  |
| Longitudinal section(s) showing chainage and levels along the centreline of each constructed boat ramp lane |  |  |