

GENERAL

1.

NETWORK RAIL STANDARD COLOUR KEY (SHOWN ON ALL DRAWINGS):

EXISTING OR UNCHANGED ITEMS

MODIFIED OR ITEMS TO BE MOVED

REDUNDANT OR ITEMS TO BE REMOVED

NEW, PROPOSED OR ADDITIONAL ITEMS

2.

ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.

3.

ALL LEVELS ARE IN METRES ABOVE ORDNANCE DATUM UNLESS NOTED OTHERWISE.

4.

ALL DIMENSIONS AND LEVELS ARE TO BE CHECKED ON SITE PRIOR TO ANY WORKS BEING PUT IN HAND.

5.

THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF THE EXISTING STRUCTURE AT ALL TIMES DURING THE WORKS.

6.

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER CONTRACT DRAWINGS AND RELEVANT STRUCTURAL SPECIFICATIONS.

7.

ANY DISCREPANCIES BETWEEN THE INFORMATION GIVEN ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER AS SOON AS POSSIBLE.

8.

THESE DRAWINGS ARE BASED ON AVAILABLE NETWORK RAIL SITE SURVEY INFORMATION, AS-BUILT INFORMATION AND REPAIR SPECIFICATIONS.

9.

THE CONTRACTOR SHALL UNDERTAKE A SERVICES SEARCH IN THE VICINITY OF THE PROPOSED WORKS, BOTH VISUALLY AND WITH APPROVED CAT SCANNING EQUIPMENT, AND WILL BE RESPONSIBLE FOR PROTECTING THE SERVICES DURING THE WORKS IN ACCORDANCE WITH NETWORK RAIL COMPANY STANDARD NR/L2/INI/CP1030 WORKING SAFELY IN THE VICINITY OF BURIED SERVICES.

10.

ALL MATERIALS USED IN THE WORKS SHALL BE TO EUROCODES OR OTHER APPLICABLE SPECIFICATIONS.

11.

ALL PROPRIETARY MATERIALS USED IN THE WORKS ARE TO BE USED IN COMPLETE ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.

12.

LIFTING POINTS/APPROVED LIFT METHOD TO BE CONFIRMED

SPECIFICATIONS

THIS SCHEME IS TO BE CONSTRUCTED WITHIN THE FOLLOWING NETWORK RAIL STANDARD SPECIFICATIONS NR/L3/CIV/140 ISSUE 12.

•

010 GENERAL

•

040 DEMOLITION & SITE CLEARANCE

•

083 STRUCTURAL CONCRETE REPAIRS

•

203 KERBS, FOOTWAYS AND PAVED AREAS

•

1700 STRUCTURAL CONCRETE

SITE LOCATION: (STAIRCASE 1)

•

MILLERS CARAVAN

•

RHUDDLAN MARSH EMBANKMENT, LL22 9LB

•

MILEAGE: CNH3 211m 79ch

•

OS GRID REF: SH 96696 79701

SITE LOCATION: (STAIRCASE 2)

•

KNIGHTLYS FUN PARK

•

RHUDDLAN MARSH EMBANKMENT, LL22 9LB

•

MILEAGE: CNH3 211m 55ch

•

OS GRID REF: SH 97050 79872

SITE LOCATION: (STAIRCASE 3)

•

GOLDEN SANDS

•

RHUDDLAN MARSH EMBANKMENT, LL22 9LB

•

MILEAGE: CNH3 211m 32ch

•

OS GRID REF: SH 97486 80126

SCOPE OF WORKS:

•

REMOVAL OF CONCRETE UNITS

•

INSULATION OF NEW PRECAST CONCRETE UNITS

•

INSULATION OF HANDRAIL

REINFORCED CONCRETE

1.

CONCRETE MIXES IN ACCORDANCE WITH BS 8500-2 & BS EN 206-1:

2.

CONCRETE GRADE TO BE C35.

3.

CONCRETE EXPOSURE CLASSIFICATION TO BE XS3 IN ACCORDANCE WITH BS EN 206-1:2006, BS 8500:2006.

4.

CONCRETE TO BE CURED BY APPROVED METHOD FOR A MINIMUM OF 28 DAYS. FOR GUIDANCE REFER TO 'CONCRETE ADVICE DOCUMENT No. 20' BY 'THE CONCRETE SOCIETY'.

5.

CARE IS TO BE TAKEN TO PROTECT CONCRETE FROM ADVERSE WEATHER. FOR GUIDANCE REFER TO 'CONCRETE ADVICE DOCUMENT No. 20' BY 'THE CONCRETE SOCIETY'.

6.

CONCRETE FINISHES ARE TO BE IN ACCORDANCE WITH MCHW VOL 1 SERIES 1700 AS FOLLOWS:

-

EXPOSED VERTICAL SURFACES

-

F4

-

BURIED VERTICAL SURFACES

-

F1

7.

COVER TO ALL REINFORCEMENT IS TO BE:

CULVERT HEADWALL BASE:

-

TOP & SIDES

-

55mm

-

BOTTOM

-

55mm

8.

REINFORCEMENT IS TO BE CUT AND BENT IN ACCORDANCE WITH BS 8666.

9.

REINFORCEMENT IS TO BE TYPE B - GRADE 500 IN ACCORDANCE WITH BS4449:2005, WITH A CHARACTERISTIC YIELD STRENGTH OF 500N/mm².

10.

MINIMUM LAP LENGTH & ANCHORAGE FOR REINFORCEMENT AS PER TABLE:

TOP:

| DIAMETER | LAP    | ANCHORAGE |
|----------|--------|-----------|
| 10mm     | 500mm  | 450mm     |
| 12mm     | 650mm  | 525mm     |
| 16mm     | 950mm  | 700mm     |
| 20mm     | 1225mm | 850mm     |
| 25mm     | 1600mm | 1075mm    |
| 32mm     | 2050mm | 1350mm    |
| 40mm     | 2775mm | 1850mm    |

BOTTOM:

| DIAMETER | LAP    | ANCHORAGE | VERTICAL |
|----------|--------|-----------|----------|
| 10mm     | 350mm  | 300mm     | 450mm    |
| 12mm     | 450mm  | 375mm     | 550mm    |
| 16mm     | 650mm  | 500mm     | 725mm    |
| 20mm     | 875mm  | 600mm     | 900mm    |
| 25mm     | 1125mm | 750mm     | 1100mm   |
| 32mm     | 1425mm | 950mm     | 1425mm   |
| 40mm     | 1950mm | 1300mm    | 1775mm   |

11.

ABBREVIATIONS:

•

T

- TOP

•

B

- BOTTOM

•

B1

- BOTTOM FIRST LAYER

•

B2

- BOTTOM SECOND LAYER

•

T1

- TOP FIRST LAYER

•

T2

- TOP SECOND LAYER

•

THK

- THICKNESS

•

SSL

- STRUCTURAL SLAB LEVEL

•

TLL

- TOP LONG LEG.

•

TOW

- TOP OF WALL

•

TYP

- TYPICAL

•

V

- VERTICAL

•

H

- HORIZONTAL

•

EF

- EACH FACE

•

ES

- EACH SIDE

•

NF

- NEAR FACE

•

FF

- FAR FACE

12.

REINFORCEMENT NOTATION:

MULTIPLES

2 x 10

NUMBER OF BARS

H

REINFORCEMENT TYPE

12 - 05 - 200 - T

BAR DIAMETER

BAR MARK

BAR SPACING

LOCATION OF REINFORCEMENT

SURVEYS

TOPOGRAPHICAL SURVEY

1.

THIS DESIGN HAS BEEN BASED ON TOPOGRAPHICAL SURVEY INFORMATION RECEIVED FROM MPH CONSTRUCTION ON 09/07/2024.

2.

ALL LEVELS GIVEN IN METRES ABOVE ORDNANCE DATUM.

3.

ALL DIMENSIONS ARE GIVEN IN MILLIMETRES.

4.

THE CONTRACTOR IS RESPONSIBLE FOR CHECKING THE ACCURACY OF THE SURVEY AND FOR ALL SETTING OUT ON SITE.

BURIED SERVICES

5.

NO INFORMATION HAS CURRENTLY BEEN PROVIDED.THE CONTRACTOR SHALL ENSURE THAT ALL BURIED SERVICES ARE FOUND AND IDENTIFIED PRIOR TO THE COMMENCEMENT OF ANY WORKS.

GEOTECHNICAL

6.

THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF ALL EXCAVATIONS AND THE SAFETY OF THE RAILWAY/EXISTING STRUCTURE DURING THE WORKS.

7.

ANY REQUIRED GEOTECHNICAL INVESTIGATIONS RELATING TO THE BEARING OF THE GROUND CONDITIONS ARE TO BE ARRANGED BY THE CONTRACTOR. AT THIS STAGE, NO SUCH INVESTIGATIONS ARE CONSIDERED A REQUIREMENT.

| CDM, HEALTH, SAFETY AND ENVIRONMENTAL NOTES                                                                                                                             |           |                                                                                                    |            |  |  |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------------------------------------------------------------------------------------------------|------------|--|--|--|--|
|                                                                                                                                                                         |           | DENOTES THE LOCATION OF RISK. FOR MORE INFORMATION REFER TO DESIGN RISK ASSESSMENT: 23047W-RAR-001 |            |  |  |  |  |
| IN ADDITION TO THE HAZARDS AND THE RISKS NORMALLY ASSOCIATED WITH THE FORM OF CONSTRUCTION DESCRIBED ON THE DRAWINGS, THE FOLLOWING RESIDUAL RISKS SHOULD BE CONSIDERED |           |                                                                                                    |            |  |  |  |  |
| P - DETAILED DESIGN, C - CONSTRUCTION, S - IN SERVICE / MAINTENANCE, D - DECOMMISSIONING /                                                                              |           |                                                                                                    |            |  |  |  |  |
| RISK PREFIX                                                                                                                                                             | RISK REF. | RISK DESCRIPTION                                                                                   | RISK PHASE |  |  |  |  |
| RM                                                                                                                                                                      | 01        | WORKING ON OR NEAR RAILWAY                                                                         | C          |  |  |  |  |
| RM                                                                                                                                                                      | 02        | WORKING NEAR CHANGING TIDAL CONDITIONS                                                             | C          |  |  |  |  |
| RM                                                                                                                                                                      | 03        | MANUAL HANDLING                                                                                    | C          |  |  |  |  |
| RM                                                                                                                                                                      | 04        | LIFTING OPERATIONS                                                                                 | C          |  |  |  |  |
| RM                                                                                                                                                                      | 05        | NOISE & DUST POLLUTION                                                                             | C          |  |  |  |  |
| RM                                                                                                                                                                      | 06        | WORKING WITH POWER TOOLS TO CUT OR DRILL                                                           | C          |  |  |  |  |
| RM                                                                                                                                                                      | 07        | PUBLIC DISTURBANCE/ VANDALISM                                                                      | C, S       |  |  |  |  |

00.51.02.03.04.05.06

SCALE 1:25

LIST OF DOCUMENTS

|            | SPECIFICATION AND NOTES                                |
|------------|--------------------------------------------------------|
| 23047W-000 | EXISTING GENERAL ARRANGEMENT                           |
| 23047W-001 | EXISTING GENERAL ARRANGEMENT ELEVATION AND SECTIONS    |
| 23047W-002 | EXISTING GENERAL ARRANGEMENT PLAN MILLERS CARAVAN PARK |
| 23047W-003 | EXISTING GENERAL ARRANGEMENT PLAN KNIGHTLY'S FUN PARK  |
| 23047W-004 | EXISTING GENERAL ARRANGEMENT PLAN GOLDEN SANDS         |
| 23047W-005 | PROPOSED DETAILS                                       |

FORM G

| REV | AMENDMENT         | DRN | CHK | APP | DATE     |
|-----|-------------------|-----|-----|-----|----------|
| B02 | FORM G SUBMISSION | MH  | DAO | TJE | 04/09/24 |
| B01 | FORM G SUBMISSION | MH  | DAO | TJE | 30/11/23 |

The Barn  
Elms Farm  
Hobbs Lane  
Warrington  
WA4 5LS

CROUCH  
WATERFALL

Tel 01925 740404  
warrington@crouchwaterfall.co.uk

CLIENT

MPH  
CONSTRUCTION

PROJECT TITLE

RHUDDLAN MARSH EMBANKMENT

DRAWING TITLE

SPECIFICATION AND NOTES

| DRAWN | CHK | APP | DATE    | SCALE         |
|-------|-----|-----|---------|---------------|
| MH    | DAO | TJE | JUL '23 | AS SHOWN @ A1 |

| JOB NUMBER | DRAWING NUMBER | REVISION |
|------------|----------------|----------|
| 23047W     | 000            | B02      |