PLOT DATE: June 25, 2020



NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.

BRIDGE PLAN

BP	-	*1:500 @ A3*

REV	DESCRIPTION	DATE	DESIGN	DRAWN	APPROVED
A	PRELIM DESIGN	NOV 19	DC	PS	DC
B	ROAD SAFETY AUDIT	APR 20	DC	PS	DC
C	PEER REVIEW	MAY 20	DC	PS	DC
D	FOR CONSTRUCTION	JUN 20	DC	PS	DC

DO NOT SCALE. IF IN DOUBT ASK

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PROJECT
LONGFORD SHARED PATH
PROJECT NO.
2019/11

LONGFORD SHARED PATH
MATAURA CYCLEBRIDGE
BRIDGE PLAN

DWG: GDC_2019/11_S100

S100
Rev D



LEGEND:

Stormwater
- Stormwater Points
  - MANHOLE
  - MUD TANK
  - CLEANING EYE
  - INLET
  - OUTLET
  - PUMP
- Stormwater Lines
  - Gravity Main
  - Open Drain
  - Culvert

Wastewater
- Wastewater Points
  - MANHOLE
  - MUD TANK
  - CLEANING EYE
  - END CAP
  - OVERFLOW
  - PUMP
  - TREATMENT PLANT
- Wastewater Lines
  - Gravity Main
  - Rising Main

Water
- Water Points
  - HYDRANT
  - TOBY
  - METER
  - VALVE
  - BREAK TANK
  - PUMP
  - TANK
  - TURBIDITY SENSOR
  - URBAN RES
  - WELL
- Water Lines
  - Gravity Main
  - Rising Main

CYCLEWAY NOTES:

1. CYCLEWAY DRAWINGS SHALL BE READ IN CONJUNCTION WITH FULL LONGFORD CYCLEWAY SET: DRAWINGS GDC_2019/11_C101 TO C106.
2. COORDINATES IN TERMS OF NZGD 2000 BLUFF CIRCUIT. LEVELS IN TERMS OF DUNEDIN TO BLUFF VERTICAL DATUM 1960. ORIGIN OF LEVELS AE0C RL = 75.13. CONTOURS SHOWN AT 0.2M INTERVALS.
3. REFER TO CYCLEWAY CROSS SECTION ON DRAWING C105. ALTERNATIVE CONSTRUCTION (E.G. CONCRETE, CHIPSEAL, ETC.) WILL BE CONSIDERED BY THE ENGINEER DURING THE CONSTRUCTION TENDER PROCESS WHERE SIMILAR PERFORMANCE AND DURABILITY CAN BE DEMONSTRATED.
4. PATH WIDTH TO BE 2.2m WIDE SOUTH OF CHAINAGE 1228m. NORTH OF THIS POINT PATH SHALL BE 3.0m WIDE. TRANSITION SHALL OCCUR CENTRED WITH A TAPER OF 1WIDE:5LONG EITHER SIDE.
5. REFER TO EARTHWORK SPEC ON DRAWING C106.
6. IT IS RECOMMEND THAT ALL CONTRACTORS VISIT SITE PRIOR TO TENDERING. FULL SITE LIDAR IN DXF FORMAT CAN ALSO BE PROVIDED ON REQUEST;

PATHWAY CENTRELINE SET-OUT

TO BE PEGGED ON SITE AND CONFIRMED BY ENGINEER PRIOR TO STARTING WORKS

CHAINAGE, M	X	Y	Z
1228.1	446907.170	856024.450	73.860
1269.5	446944.610	856042.010	71.800
1383.6	447047.980	856090.470	72.400
1429.3	447082.030	856120.030	72.400

REV	DESCRIPTION	DATE	DESIGN	DRAWN	APPROVED
A	DETAILED DESIGN	JAN 20	DC	PS	DC

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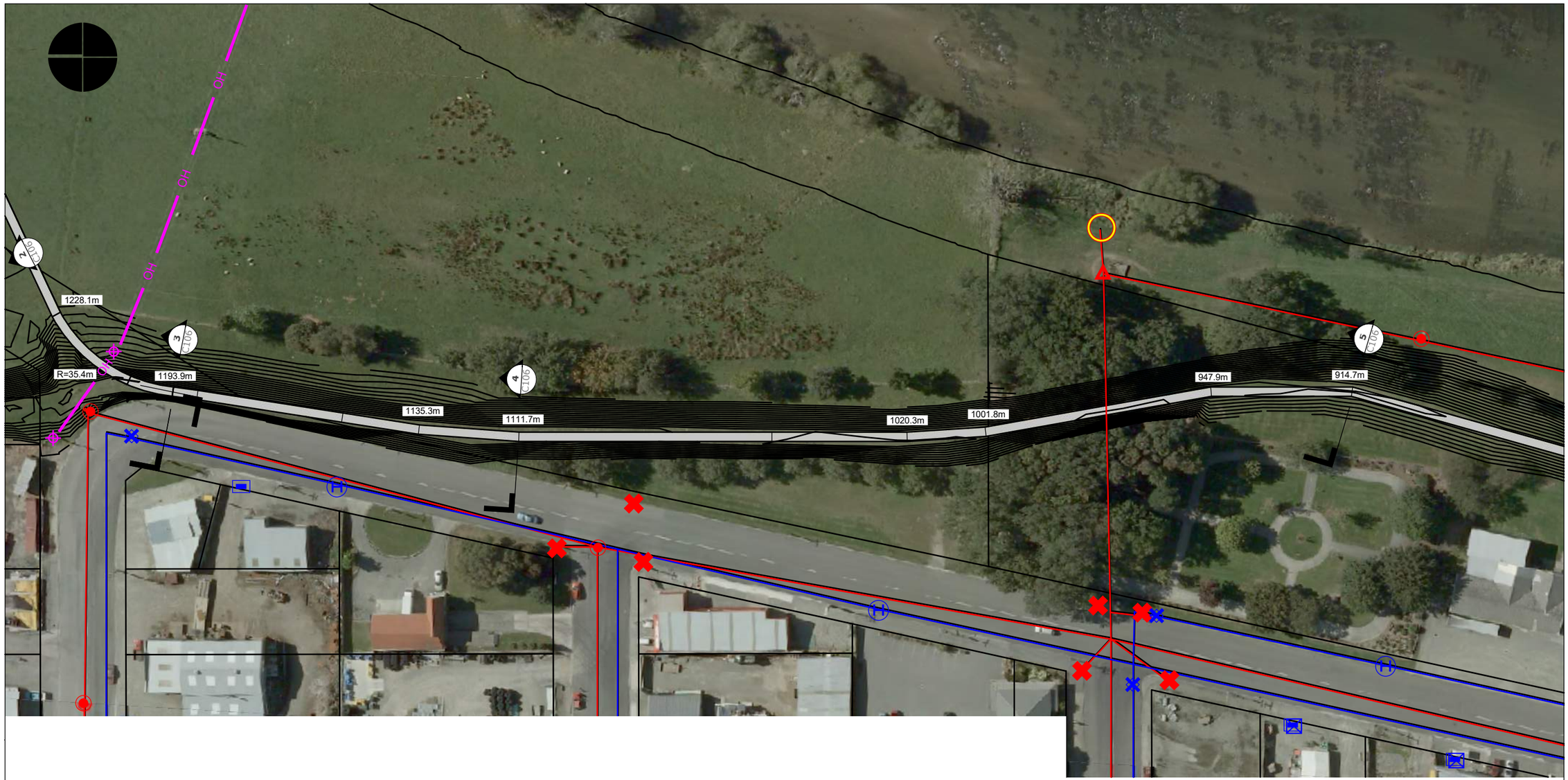
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PROJECT
LONGFORD SHARED PATH
PROJECT NO.
2019/11

LONGFORD SHARED PATH
MATAURA CYCLEBRIDGE
CYCLEWAY PLAN – SHEET 1

DWG: GDC_2019/11_C101

C101
Rev A



CYCLEWAY NOTES:

1. REFER TO DRAWING C101 FOR DRAWING NOTES.

LEGEND:

Stormwater
- Stormwater Points
  - MANHOLE
  - MUD TANK
  - CLEANING EYE
  - INLET
  - OUTLET
  - PUMP
- Stormwater Lines
  - Gravity Main
  - Open Drain
  - Culvert

Wastewater
- Wastewater Points
  - MANHOLE
  - MUD TANK
  - CLEANING EYE
  - END CAP
  - OVERFLOW
  - PUMP
  - TREATMENT PLANT
- Wastewater Lines
  - Gravity Main
  - Rising Main

Water
- Water Points
  - HYDRANT
  - TOBY
  - METER
  - VALVE
  - BREAK TANK
  - PUMP
  - TANK
  - TURBIDITY SENSOR
  - URBAN RES
  - WELL
- Water Lines
  - Gravity Main
  - Rising Main

Power
- OH OH OVERHEAD POWER
- POWER POLE

PATHWAY CENTRELINE SET-OUT
TO BE PEGGED ON SITE AND CONFIRMED BY ENGINEER PRIOR TO STARTING WORKS

CHAINAGE, M	X	Y	Z
914.7	446889.000	855719.430	75.140
947.9	446889.000	855752.610	75.220
1001.8	446879.580	855805.700	75.310
1020.3	446878.390	855824.180	75.350
1111.7	446878.390	855915.570	75.570
1135.3	446880.080	855939.100	75.520
1193.9	446889.020	855997.030	75.510
1228.1	446907.170	856024.450	73.860

REV	DESCRIPTION	DATE	DESIGN	DRAWN	APPROVED
A	DETAILED DESIGN	JAN 20	DC	PS	DC

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DC STRUCTURES STUDIO

GO RE DISTRICT COUNCIL

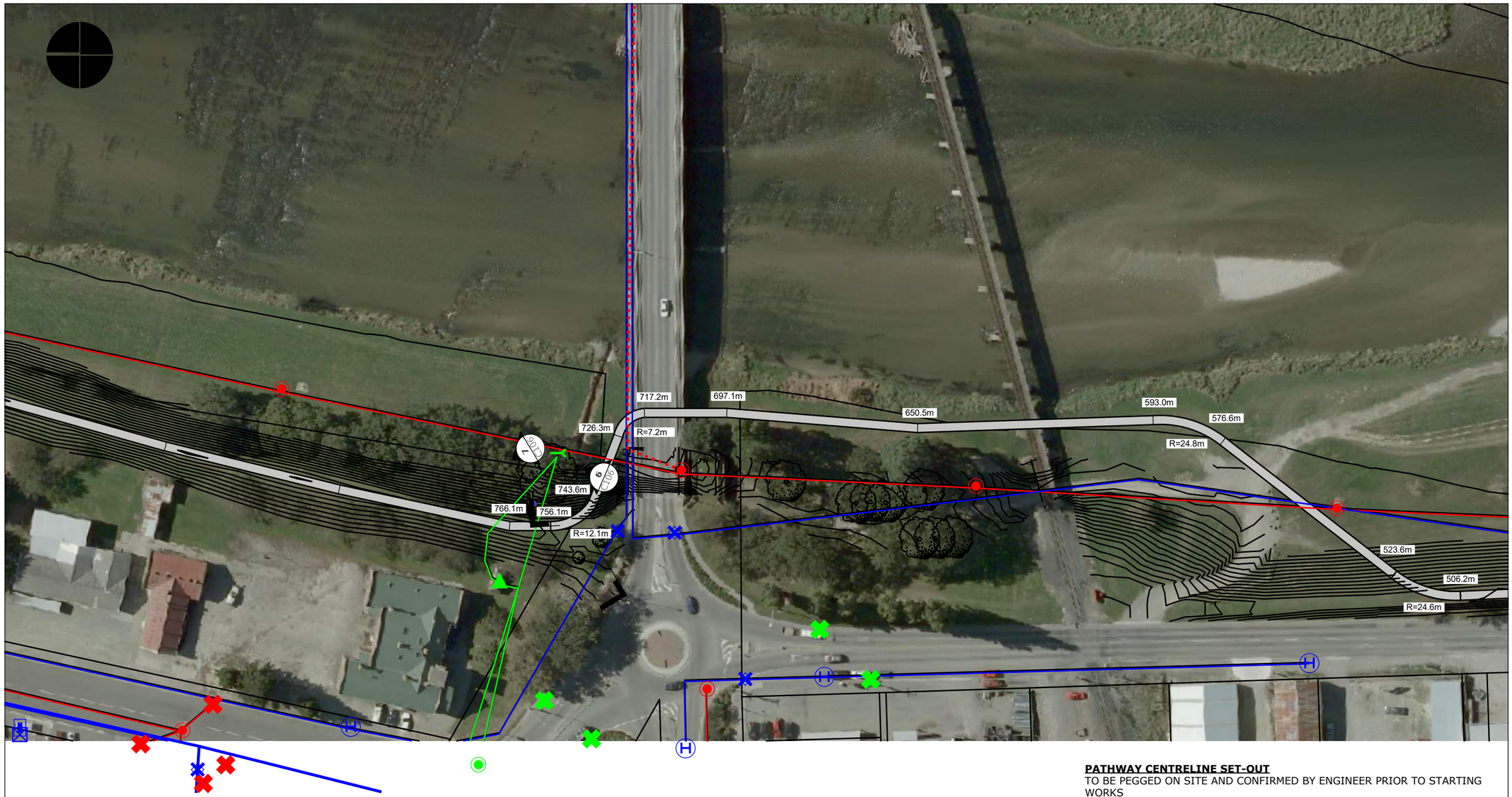
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PROJECT
LONGFORD SHARED PATH
PROJECT NO.
2019/11

LONGFORD SHARED PATH
MATAURA CYCLEBRIDGE
CYCLEWAY PLAN – SHEET 2

DWG: GDC_2019/11_C102

C102
Rev A



CYCLEWAY NOTES:

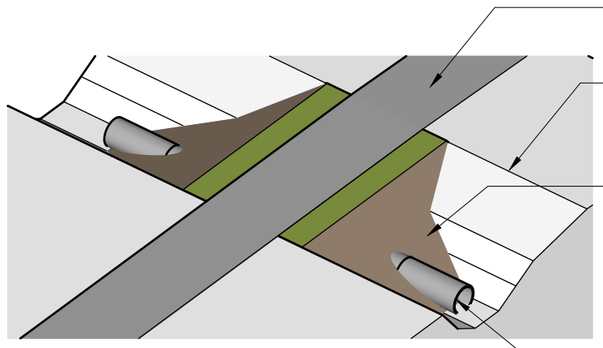
1. REFER TO DRAWING C101 FOR DRAWING NOTES.

LEGEND:

Stormwater
- Stormwater Points
  - MANHOLE
  - MUD TANK
  - CLEANING EYE
  - INLET
  - OUTLET
  - PUMP
- Stormwater Lines
  - Gravity Main
  - Open Drain
  - Culvert

Wastewater
- Wastewater Points
  - MANHOLE
  - MUD TANK
  - CLEANING EYE
  - END CAP
  - OVERFLOW
  - PUMP
  - TREATMENT PLANT
- Wastewater Lines
  - Gravity Main
  - Rising Main

Water
- Water Points
  - HYDRANT
  - TOBY
  - METER
  - VALVE
  - BREAK TANK
  - PUMP
  - TANK
  - TURBIDITY SENSOR
  - URBAN RES
  - WELL
- Water Lines
  - Gravity Main
  - Rising Main



DRAINAGE GULLEY CULVERT DETAIL

DGC C101 *NTS*

PATHWAY CENTRELINE SET-OUT

TO BE PEGGED ON SITE AND CONFIRMED BY ENGINEER PRIOR TO STARTING WORKS

CHAINAGE, M	X	Y	Z
506.2	446835.700	855343.240	74.140
523.6	446840.860	855359.450	72.980
576.6	446873.400	855401.250	70.570
593.0	446878.570	855418.280	70.570
650.5	446876.630	855475.760	70.570
697.1	446880.350	855522.350	70.570
717.2	446880.350	855542.450	70.570
726.3	446874.690	855548.840	70.570
743.6	446858.580	855554.960	73.750
756.1	446852.690	855565.360	74.880
766.1	446852.690	855575.380	75.060

REV	DESCRIPTION	DATE	DESIGN	DRAWN	APPROVED
A	DETAILED DESIGN	JAN 20	DC	PS	DC

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PROJECT
LONGFORD SHARED PATH
PROJECT NO.
2019/11

LONGFORD SHARED PATH
MATAURA CYCLEBRIDGE
CYCLEWAY PLAN – SHEET 3

DWG: GDC_2019/11_C103

C103
Rev A



CYCLEWAY NOTES:

1. REFER TO DRAWING C101 FOR DRAWING NOTES.

LEGEND:

Stormwater
- Stormwater Points
  - MANHOLE
  - MUD TANK
  - CLEANING EYE
  - INLET
  - OUTLET
  - PUMP
- Stormwater Lines
  - Gravity Main
  - Open Drain
  - Culvert

Wastewater
- Wastewater Points
  - MANHOLE
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  - END CAP
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  - TREATMENT PLANT
- Wastewater Lines
  - Gravity Main
  - Rising Main

Water
- Water Points
  - HYDRANT
  - TOBY
  - METER
  - VALVE
  - BREAK TANK
  - PUMP
  - TANK
  - TURBIDITY SENSOR
  - URBAN RES
  - WELL
- Water Lines
  - Gravity Main
  - Rising Main

PATHWAY CENTRELINE SET-OUT

TO BE PEGGED ON SITE AND CONFIRMED BY ENGINEER PRIOR TO STARTING WORKS

CHAINAGE, M	X	Y	Z
303.6	446818.830	855141.850	73.820
366.8	446826.410	855204.510	73.790
391.9	446830.270	855229.370	73.900
423.0	446834.040	855260.230	74.070
447.7	446836.180	855284.840	74.220
463.6	446837.520	855300.680	74.210

REV	DESCRIPTION	DATE	DESIGN	DRAWN	APPROVED
A	DETAILED DESIGN	JAN 20	DC	PS	DC

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DC STRUCTURES STUDIO

GO RE DISTRICT COUNCIL

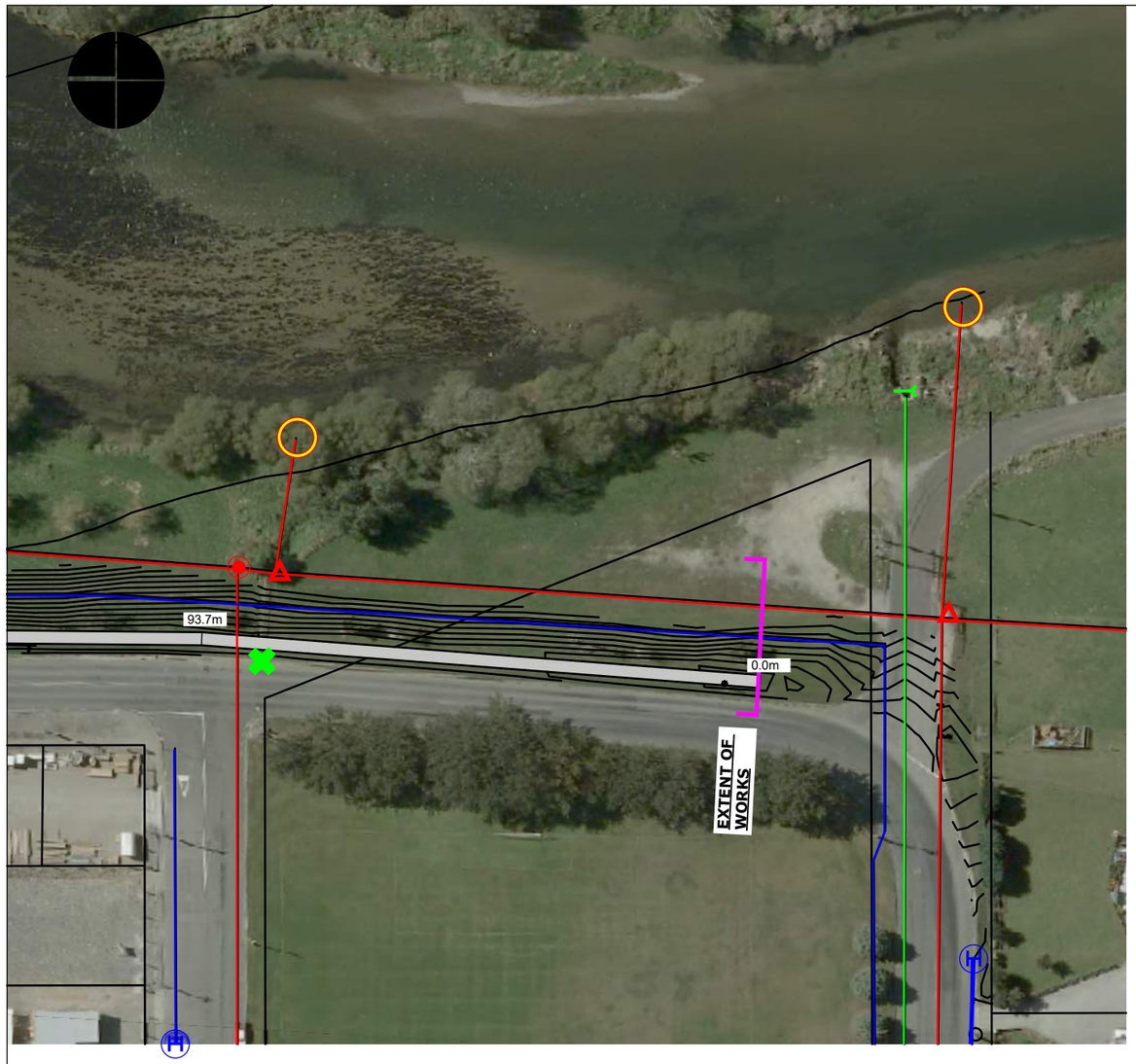
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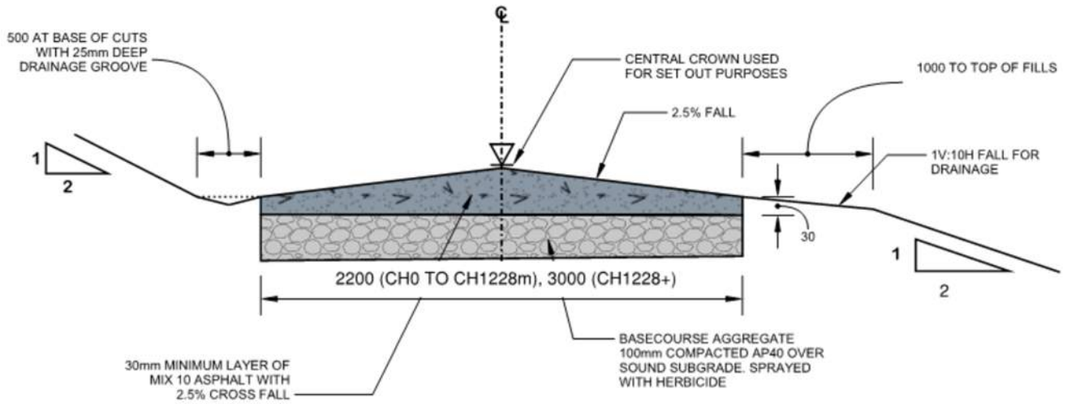
PROJECT
LONGFORD SHARED PATH
PROJECT NO.
2019/11

LONGFORD SHARED PATH
MATAURA CYCLEBRIDGE
CYCLEWAY PLAN – SHEET 4

DWG: GDC_2019/11_C104

C104
Rev A





TYPICAL PATH CROSS SECTION

PX C101 *NTS*

CYCLEWAY NOTES:

1. REFER TO DRAWING C101 FOR CYCLEWAY NOTES.

EARTHWORKS SPECIFICATION:

1. EARTHWORKS SHALL BE SURVEYED AND MARKED ON SITE BY A REGISTERED SURVEYOR EMPLOYED BY THE BRIDGE CONTRACTOR.
2. ALL EARTHWORKS SHALL BE CARRIED OUT TO THE LINES, LEVELS AND GRADES SHOWN ON THE DRAWINGS. THE ACCURACY OF SURFACES TO BE OVERLAIN BY SPECIFIED PAVEMENT LAYERS SHALL BE SUCH AS TO PRESERVE THE MINIMUM THICKNESS OF THE OVERLYING LAYERS. TOLERANCES SHALL OTHERWISE BE AS FOLLOWS:
   - ROAD SUBGRADES -25MM TO +0MM
   - BATTERS 0MM TO +150 MM
   - OTHER SURFACES 0MM TO +75 MM
3. THE GEOTECHNICAL ENGINEER SHALL INSPECT ALL FINAL CUT SURFACES TO ENSURE THEY WILL REMAIN STABLE.
4. ALL TOPSOIL, ORGANIC MATTER AND OTHER UNSUITABLE MATERIAL IS TO BE REMOVED FROM THE CONSTRUCTION AREAS PRIOR TO FILL PLACEMENT.
5. ENGINEERED FILL TO BE SITE-WON OR IMPORTED FREE DRAINING GRANULAR FILL. THE CONTRACTOR SHALL PROVIDE THE GEOTECHNICAL ENGINEER WITH REPRESENTATIVE NZ STANDARD COMPACTION AND PARTICLE SIZE DISTRIBUTION CURVES FOR APPROVAL BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT.
6. BEFORE FILLING, THE CONTRACTOR SHALL FACILITATE ONE PLATEAU TEST (COMPACTION TRIAL), SUPERVISED BY THE GEOTECHNICAL ENGINEER, FOR EACH MATERIAL PROPOSED FOR FILLING.
7. ALL FILL SHALL BE TO BE PLACED IN 200 MM THICK LAYERS (PRIOR TO COMPACTION) AT OPTIMUM MOISTURE CONTENT (OMC) ± 2%.
8. THE CONTRACTOR SHALL UNDERTAKE COMPACTION TESTING OF EACH COMPACTED LAYER (OR AT AN INTERVAL AGREED WITH THE GEOTECHNICAL ENGINEER) USING NDM OR OTHER METHODOLOGY APPROVED BY THE GEOTECHNICAL ENGINEER. COMPACTION OF EACH LAYER SHALL BE SUFFICIENT TO OBTAIN THE FOLLOWING:
   - 8.1 IN SITU DRY DENSITY SHALL NOT BE LESS THAN 92% OF THE MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT
   - 8.2 TOTAL VOIDS SHALL BE LESS THAN 16%
9. THE CONTRACTOR IS RESPONSIBLE FOR ALL STORMWATER, SEDIMENT AND DUST CONTROL DURING EARTHWORKS, WITH PARTICULAR ATTENTION TO ANY DISCHARGES TO THE MATAURA RIVER.

LEGEND:

Stormwater
- Stormwater Points
  - MANHOLE
  - MUD TANK
  - CLEANING EYE
  - INLET
  - OUTLET
  - PUMP
- Stormwater Lines
  - Gravity Main
  - Open Drain
  - Culvert

Wastewater
- Wastewater Points
  - MANHOLE
  - MUD TANK
  - CLEANING EYE
  - END CAP
  - OVERFLOW
  - PUMP
  - TREATMENT PLANT
- Wastewater Lines
  - Gravity Main
  - Rising Main

Water
- Water Points
  - HYDRANT
  - TOBY
  - METER
  - VALVE
  - BREAK TANK
  - PUMP
  - TANK
  - TURBIDITY SENSOR
  - URBAN RES
  - WELL
- Water Lines
  - Gravity Main
  - Rising Main

PATHWAY CENTRELINE SET-OUT

TO BE PEGGED ON SITE AND CONFIRMED BY ENGINEER PRIOR TO STARTING WORKS

CHAINAGE, M	X	Y	Z
0.0	446808.950	854838.450	73.640
93.7	446816.110	854931.960	73.300

REV	DESCRIPTION	DATE	DESIGN	DRAWN	APPROVED
A	DETAILED DESIGN	JAN 20	DC	PS	DC

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PROJECT LONGFORD SHARED PATH
PROJECT NO. 2019/11

LONGFORD SHARED PATH
MATAURA CYCLEBRIDGE
CYCLEWAY PLAN – SHEET 5

DWG: GDC_2019/11_C105

C105
Rev A