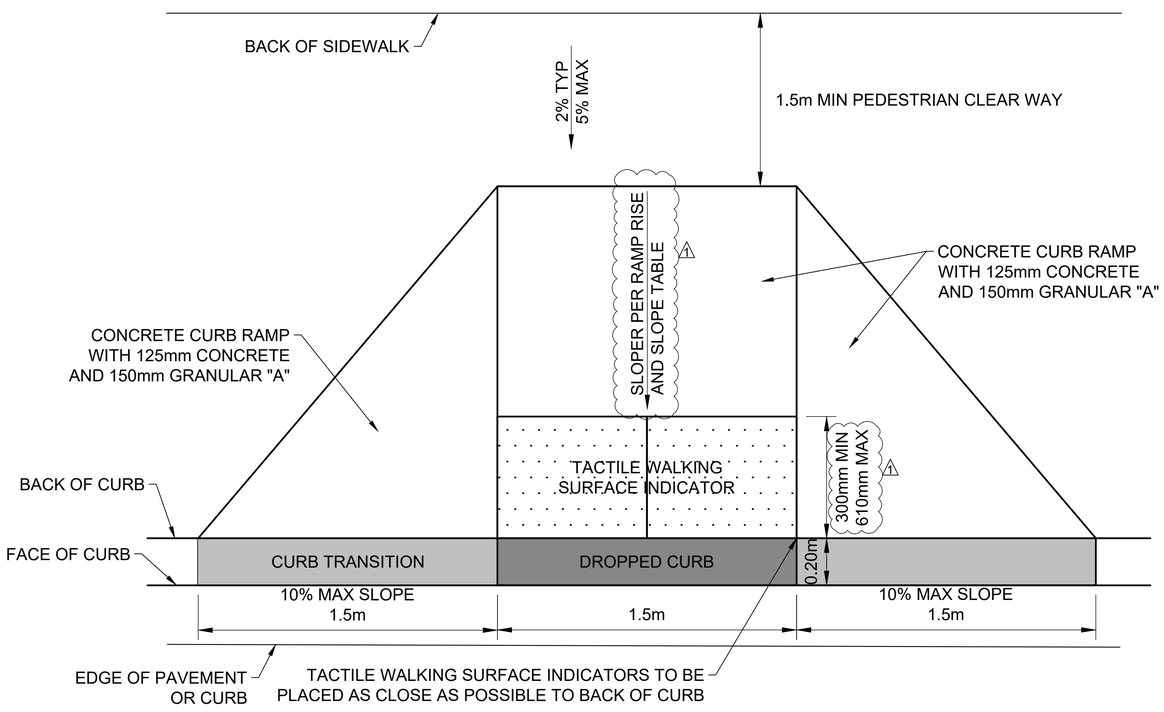
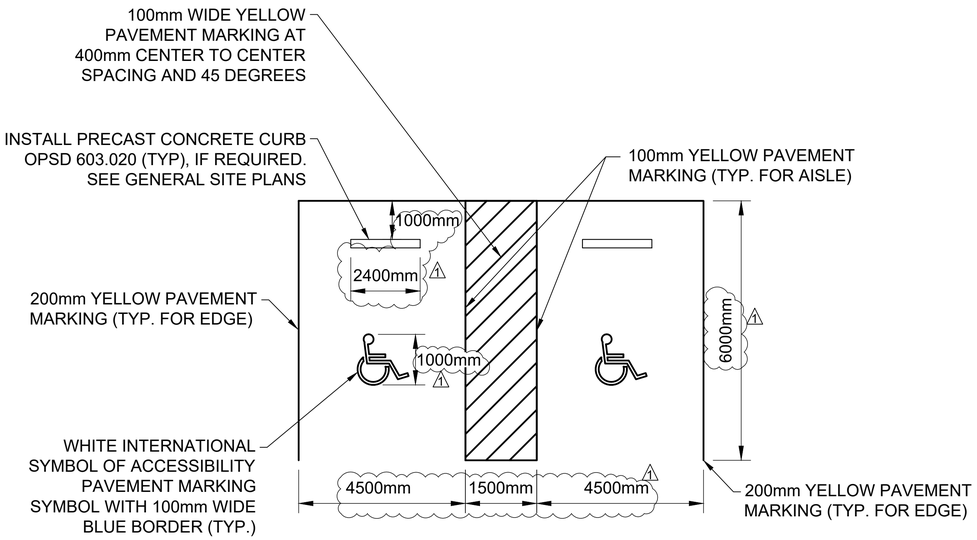
| RAMP RISE AND SLOPE TABLE | |
|---|---|
| VERTICAL RISE BETWEEN SURFACES (mm) | SLOPE |
| 75 TO 200 | 1:10 TO 1:12 |
| LESS THAN 75 | 1:8 TO 1:10 |




TACTILE WALKING SURFACE INDICATOR AND CURB RAMP
N.T.S




BARRIER FREE PARKING SPACES
N.T.S

IFT DESIGN
NOT FOR CONSTRUCTION

| NO. | DATE | MODIFICATION | DRAWN | CHKD. | APPRVD. |
|---|---|---|---|---|---|
| | | | | | |

REVISIONS

| NO. | DATE | MODIFICATION | DRAWN | CHKD. | APPRVD. |
|---|---|---|---|---|---|
| 1 | 05/17/2024 | ADDENDUM NO. 1 | BD | TJD | KC |

REVISIONS

| | |
|---|---|
| DESIGNED | BD |
| DRAWN | BD |
| CHECKED | TJD |
| APPROVED | CV |

Ontario Northland

GANNETT FLEMING

NORTHEAST PASSENGER RAIL SERVICE
ONTARIO, CANADA
REINSTATED STATIONS (PACKAGE 1 & 2)

GENERAL
CIVIL
DETAILS
SHEET 3 OF 4

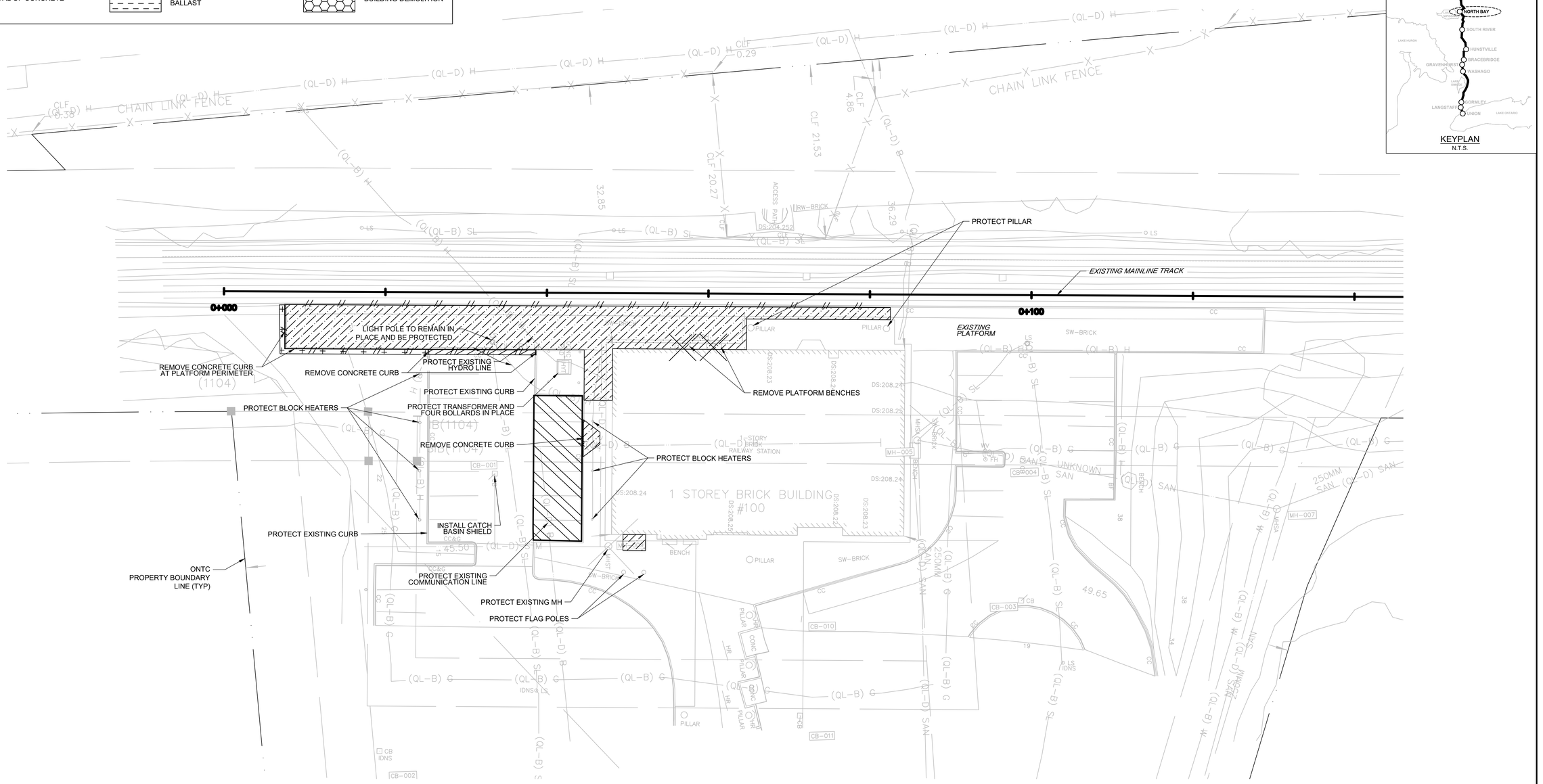
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|---|---|
| CONTRACT NUMBER | 13258 |
| SCALE | NTS |
| DATE | 03/18/2024 |
| DRAWING NUMBER | C00-004 |
| SHEET | 7 |
| OF | 173 |

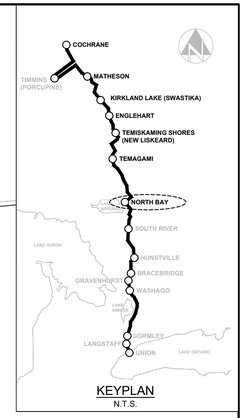
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CREATED: 2024-05-16
MODIFIED: 2024-05-17 16:01

ONTARIO NORTHLAND PROJECT NUMBER: 073613

## LEGEND

- REMOVAL OF ASPHALT (FULL DEPTH)
- PARTIAL DEPTH ASPHALT REMOVAL (MILL 50mm)
- REMOVAL OF CONCRETE
- REMOVAL OF VEGETATION
- REMOVAL OF UNIT PAVING
- REMOVAL OF GRAVEL / BALLAST
- LINEAR REMOVAL
- OBJECT REMOVAL
- BUILDING DEMOLITION




KEYPLAN
N.T.S.

**NOTES:**

1. REFER TO GRADING PLAN FOR NORTHINGS AND EASTINGS ASSOCIATED WITH PLATFORM AND ASSOCIATED WORK.

5m 0 5 10 15
1:250

IFT DESIGN
NOT FOR CONSTRUCTION

| NO. | DATE | MODIFICATION | DRAWN | CHKD. | APPRVD. |
|---|---|---|---|---|---|
| | | | | | |

REVISIONS

| NO. | DATE | MODIFICATION | DRAWN | CHKD. | APPRVD. |
|---|---|---|---|---|---|
| 1 | 05/17/2024 | ADDENDUM NO. 1 | BD | TJD | KC |

REVISIONS

DESIGNED UG
DRAWN UG
CHECKED TJD
APPROVED CV

Ontario Northland
GANNETT FLEMING

NORTHEAST PASSENGER RAIL SERVICE
ONTARIO, CANADA
REINSTATED STATIONS (PACKAGE 1 & 2)
NORTH BAY STATION
CIVIL
DEMOLITION PLAN

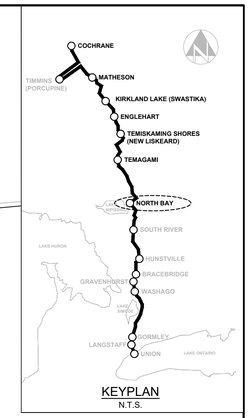
CONTRACT NUMBER 13258
SCALE 1:250
DATE 03/18/2024
DRAWING NUMBER C06-101
SHEET 9 OF 173

FILE NAME: C:\Users\bdeardorff\DC\ACCDocs\GANNETT FLEMING INC\073613-ONTC-NorthlanderPassengerRail\Project Files\Design\CIVIL\Wrkg\6_North\Sheets\06_101_DEMO.dwg
CREATED: 2024-05-17
MODIFIED: 2024-05-17 15:24

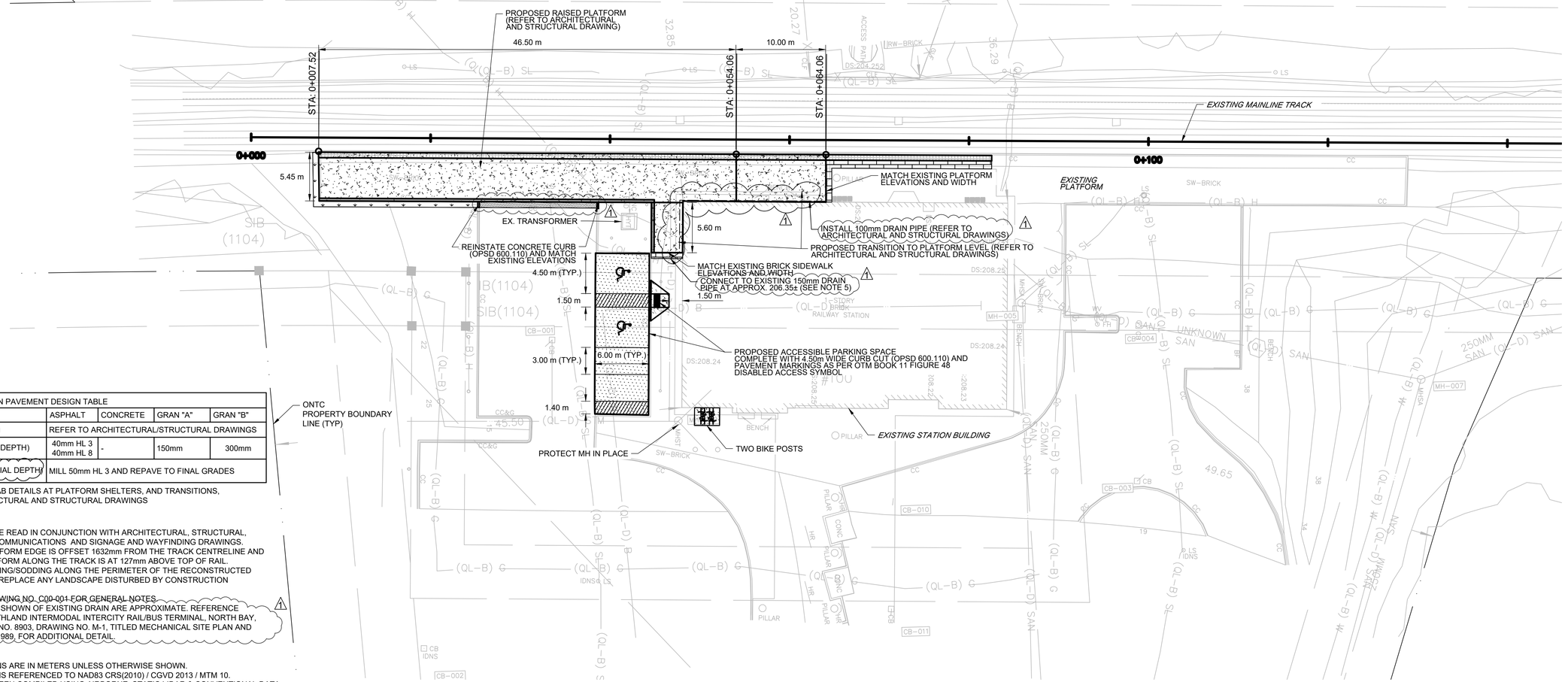
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CREATED: 2024-05-16
MODIFIED: 2024-05-17 15:25
ONTARIO NORTHLAND PROJECT NUMBER: 073613

## LEGEND

- SEEDING/SODDING
- ASPHALT PAVING (PARTIAL DEPTH)
- CONCRETE
- GRAVEL / BALLAST
- ASPHALT PAVING (FULL DEPTH)
- UNIT PAVERS




KEYPLAN
N.T.S.




| NORTH BAY STATION PAVEMENT DESIGN TABLE | | | | |
|---|---|---|---|---|
| FEATURE | ASPHALT | CONCRETE | GRAN "A" | GRAN "B" |
| STATION PLATFORM | REFER TO ARCHITECTURAL/STRUCTURAL DRAWINGS | | | |
| PARKING LOT (FULL DEPTH) | 40mm HL 3<br>40mm HL 8 | - | 150mm | 300mm |
| PARKING LOT (PARTIAL DEPTH) | MILL 50mm HL 3 AND REPAVE TO FINAL GRADES | | | |

FOR CONCRETE SLAB DETAILS AT PLATFORM SHELTERS, AND TRANSITIONS, REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS

**NOTES:**

1. DRAWING TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, STRUCTURAL, ELECTRICAL, COMMUNICATIONS AND SIGNAGE AND WAYFINDING DRAWINGS.
2. CONFIRM PLATFORM EDGE IS OFFSET 1632mm FROM THE TRACK CENTRELINE AND THE TOP PLATFORM ALONG THE TRACK IS AT 127mm ABOVE TOP OF RAIL.
3. PROVIDE SEEDING/SODDING ALONG THE PERIMETER OF THE RECONSTRUCTED PLATFORM TO REPLACE ANY LANDSCAPE DISTURBED BY CONSTRUCTION ACTIVITIES.
4. REFER TO DRAWING NO. C00-001 FOR GENERAL NOTES.
5. LOCATIONS AS SHOWN OF EXISTING DRAIN ARE APPROXIMATE. REFERENCE ONTARIO NORTHLAND INTERMODAL INTERCITY RAIL/BUS TERMINAL, NORTH BAY, ONTARIO, JOB NO. 8903, DRAWING NO. M-1, TITLED MECHANICAL SITE PLAN AND LEGEND, MAY 1989, FOR ADDITIONAL DETAIL.

**SURVEY NOTES:**

1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.
2. THE DRAWING IS REFERENCED TO NAD83 CRS(2010) / CGVD 2013 / MTM 10.
3. SURVEY HAS BEEN COMPILED USING AIRBORNE, STATIC LIDAR & CONVENTIONAL DATA.
   - 3.1. AIRBORNE DATA COLLECTED MAY 2023.
   - 3.2. STATIC DATA COLLECTED MAY 2023.
   - 3.3. CONVENTIONAL DATA COLLECTED IN MAY 2023.
4. SUE DATA WAS COLLECTED ON JULY 12TH 2023.
5. PROJECT CONTROLS:
   - 5.1. 08-101 5130430.611N 309484.992E 208.113 ELEV.
   - 5.2. 08-102 5130518.572N 309568.154E 208.129 ELEV.
   - 5.3. 08-103 5130387.365N 309618.994E 205.751 ELEV.

5m 0 5 10 15
1:250

IFT DESIGN
NOT FOR CONSTRUCTION

| NO. | DATE | MODIFICATION | DRAWN | CHKD. | APPRVD. |
|---|---|---|---|---|---|
| | | | | | |
| 1 | 05/17/2024 | ADDENDUM NO. 1 | BD | TJD | KC |

REVISIONS

DESIGNED BD
DRAWN BD
CHECKED TJD
APPROVED CV

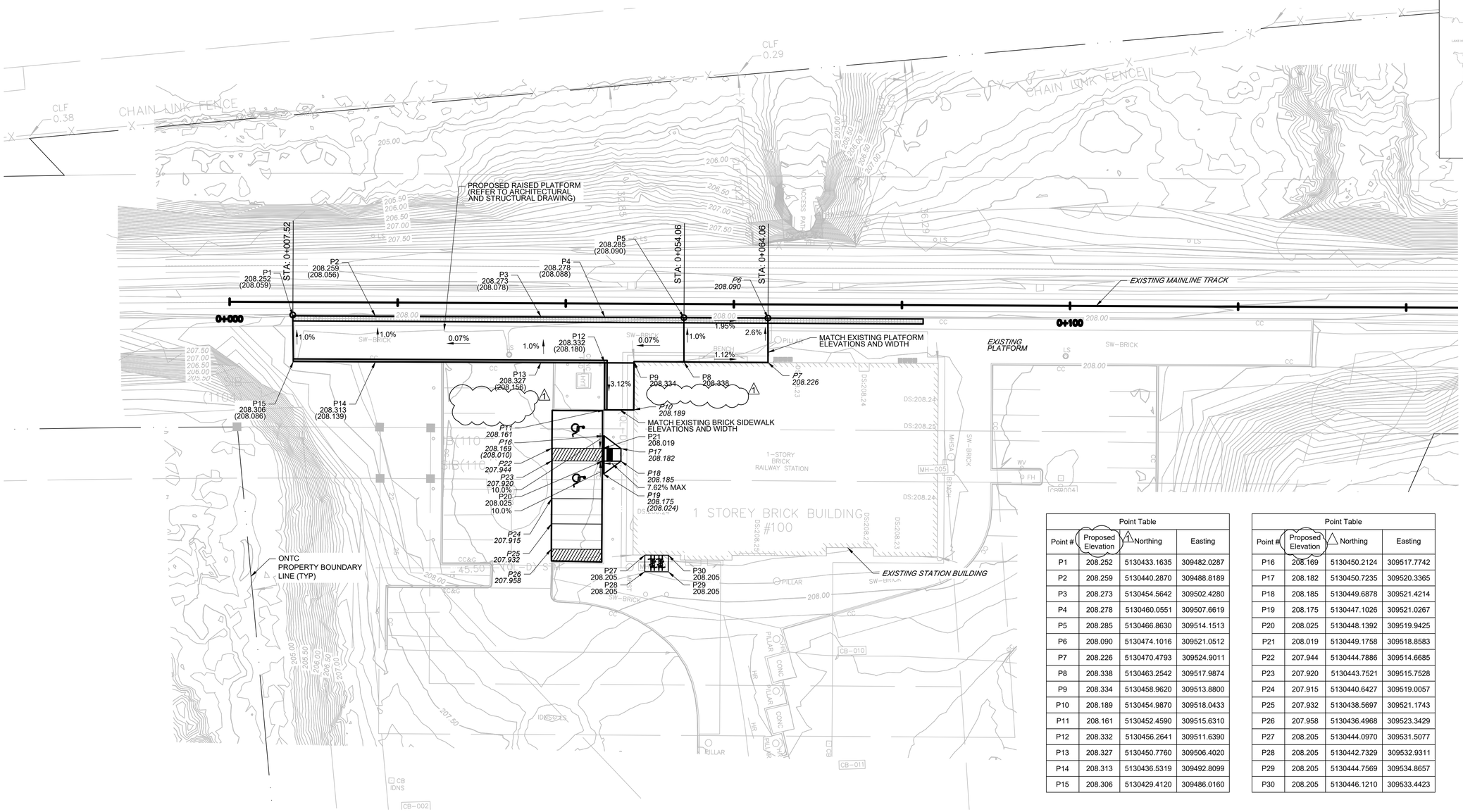
Ontario Northland
GANNETT FLEMING

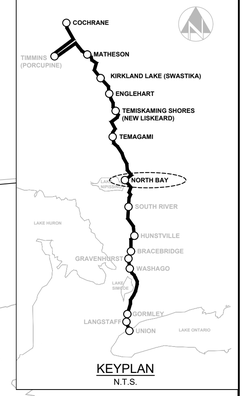
NORTHEAST PASSENGER RAIL SERVICE
ONTARIO, CANADA
REINSTATED STATIONS (PACKAGE 1 & 2)
NORTH BAY STATION
CIVIL
GENERAL SITE PLAN

CONTRACT NUMBER
SCALE 1:250
DATE
DRAWING NUMBER C06-201
SHEET 10 OF 173

LEGEND

| | |
|---|---|
| XXX.XXX | PROPOSED ELEVATION |
| (XXX.XXX) | BOTTOM ELEVATION |
| *XXX.XXX* | EXISTING ELEVATION |




KEYPLAN
N.T.S.

| Point Table | | | |
|---|---|---|---|
| Point # | Proposed Elevation | Northing | Easting |
| P1 | 208.252 | 5130433.1635 | 309482.0287 |
| P2 | 208.259 | 5130440.2870 | 309488.8189 |
| P3 | 208.273 | 5130454.5642 | 309502.4280 |
| P4 | 208.278 | 5130460.0551 | 309507.6619 |
| P5 | 208.285 | 5130466.8630 | 309514.1513 |
| P6 | 208.090 | 5130474.1016 | 309521.0512 |
| P7 | 208.226 | 5130470.4793 | 309524.9011 |
| P8 | 208.338 | 5130463.2542 | 309517.9874 |
| P9 | 208.334 | 5130458.9620 | 309513.8800 |
| P10 | 208.189 | 5130454.9870 | 309518.0433 |
| P11 | 208.161 | 5130452.4590 | 309515.6310 |
| P12 | 208.332 | 5130456.2641 | 309511.6390 |
| P13 | 208.327 | 5130450.7760 | 309506.4020 |
| P14 | 208.313 | 5130436.5319 | 309492.8099 |
| P15 | 208.306 | 5130429.4120 | 309486.0160 |

| Point Table | | | |
|---|---|---|---|
| Point # | Proposed Elevation | Northing | Easting |
| P16 | 208.169 | 5130450.2124 | 309517.7742 |
| P17 | 208.182 | 5130450.7235 | 309520.3365 |
| P18 | 208.185 | 5130449.6878 | 309521.4214 |
| P19 | 208.175 | 5130447.1026 | 309521.0267 |
| P20 | 208.025 | 5130448.1392 | 309519.9425 |
| P21 | 208.019 | 5130449.1758 | 309518.8583 |
| P22 | 207.944 | 5130444.7886 | 309514.6685 |
| P23 | 207.920 | 5130443.7521 | 309515.7528 |
| P24 | 207.915 | 5130440.6427 | 309519.0057 |
| P25 | 207.932 | 5130438.5697 | 309521.1743 |
| P26 | 207.958 | 5130436.4968 | 309523.3429 |
| P27 | 208.205 | 5130444.0970 | 309531.5077 |
| P28 | 208.205 | 5130442.7329 | 309532.9311 |
| P29 | 208.205 | 5130444.7569 | 309534.8657 |
| P30 | 208.205 | 5130446.1210 | 309533.4423 |

1:250 5m 0 5 10 15

IFT DESIGN
NOT FOR CONSTRUCTION

| NO. | DATE | MODIFICATION | DRAWN | CHKD. | APPRVD. |
|---|---|---|---|---|---|
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| 1 | 05/17/2024 | ADDENDUM NO. 1 | BD | TJD | KC |

REVISIONS

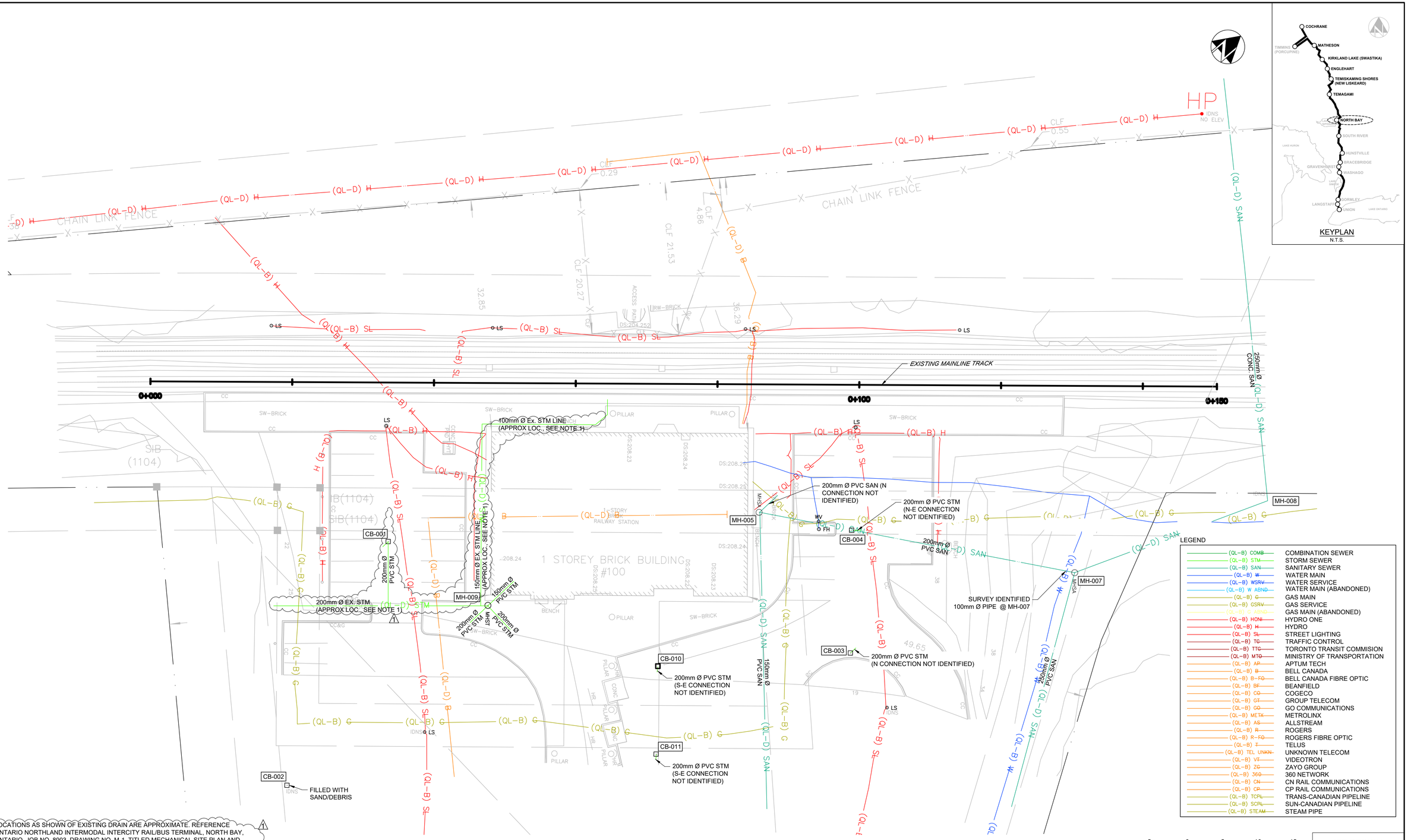
DESIGNED UG
DRAWN UG
CHECKED TJD
APPROVED CV

Ontario Northland
GANNETT FLEMING

NORTHEAST PASSENGER RAIL SERVICE
ONTARIO, CANADA
REINSTATED STATIONS (PACKAGE 1 & 2)
NORTH BAY STATION
CIVIL
GRADING PLAN

CONTRACT NUMBER 13258
SCALE 1:250
DATE 03/18/2024
DRAWING NUMBER C06-202
SHEET 11 OF 173

FILE NAME: C:\Users\bdeardorff\DC\ACCDocs\GANNETT FLEMING INC\073613-ONTC-NorthlanderPassengerRail\Project Files\Design\CIVIL\Wrkg\6_Nort\Sheets\06_202_ELEV.dwg
CREATED: 2024-05-17
MODIFIED: 2024-05-17 15:30
PROJECT NUMBER: 073613
ONTARIO NORTHLAND




**NOTES:**

1. LOCATIONS AS SHOWN OF EXISTING DRAIN ARE APPROXIMATE. REFERENCE ONTARIO NORTHLAND INTERMODAL INTERCITY RAIL/BUS TERMINAL, NORTH BAY, ONTARIO, JOB NO. 8903, DRAWING NO. M-1, TITLED MECHANICAL SITE PLAN AND LEGEND, MAY 1989, FOR ADDITIONAL DETAIL.

| NO. | DATE | MODIFICATION | DRAWN | CHKD. | APPRVD. |
|---|---|---|---|---|---|
| | | | | | |

REVISIONS

| NO. | DATE | MODIFICATION | DRAWN | CHKD. | APPRVD. |
|---|---|---|---|---|---|
| 1 | 05/17/2024 | ADDENDUM NO. 1 | BD | TJD | KC |

REVISIONS

IFT DESIGN
NOT FOR CONSTRUCTION

| | |
|---|---|
| DESIGNED | N/A |
| DRAWN | BD |
| CHECKED | TJD |
| APPROVED | CV |

Ontario Northland

GANNETT FLEMING

NORTHEAST PASSENGER RAIL SERVICE
ONTARIO, CANADA
REINSTATED STATIONS (PACKAGE 1 & 2)
NORTH BAY STATION
CIVIL
EXISTING UTILITY COMPOSITE PLAN

| | |
|---|---|
| CONTRACT NUMBER | 13258 |
| SCALE | 1:250 |
| DATE | 03/18/2024 |
| DRAWING NUMBER | C06-203 |
| SHEET | 12 |
| OF | 173 |

ONTARIO NORTHLAND PROJECT NUMBER: 073613

FILE NAME: C:\Users\bdesrdorff\DC\ACCDocs\GANNETT FLEMING INC\073613-ONTC-NorthlanderPassengerRail\Project Files\Design\CIVIL\Wrkg\6_North\Sheets\06_203_UTIL_EX.dwg
CREATED: 2024-05-16
MODIFIED: 2024-05-17 15:30

ONTARIO NORTHLAND PROJECT NUMBER: 073613

OUTSIDE OF FENCE, UNABLE TO FIELD VERIFY

UNABLE TO INVESTIGATE FURTHER

0+000 0+100 0+150

PROPOSED PLATFORM

ENDS AT BUILDING

ENTERING BUILDING

1-STORY BRICK RAILWAY STATION

UNKNOWN OWNER

ADDED AS PER RECORDS

LOST TONE

MAINTAIN ACCESS TO DOOR

1.50m

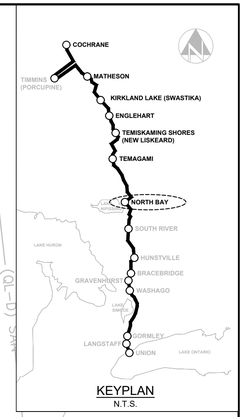
ACCESS TO BUILDING EXIT (MINIMUM 1.5m WIDTH) AND SIDE DOORS WILL BE PROVIDED AT ALL TIMES

CONSTRUCTION AREA

UNABLE TO FIELD VERIFY

GAS END CAP

250MM SAN (QL-D) SAN




KEYPLAN
N.T.S.

5m 0 5 10 15
1:250

IFT DESIGN
NOT FOR CONSTRUCTION

| NO. | DATE | MODIFICATION | DRAWN | CHKD. | APPRVD. |
|---|---|---|---|---|---|
| | | REVISIONS | | | |

| NO. | DATE | MODIFICATION | DRAWN | CHKD. | APPRVD. |
|---|---|---|---|---|---|
| 1 | 05/17/2024 | ADDENDUM NO. 1 | BD | TJD | KC |
| | | REVISIONS | | | |

| | |
|---|---|
| DESIGNED | KH |
| DRAWN | KH |
| CHECKED | TJD |
| APPROVED | CV |

Ontario Northland

GANNETT FLEMING

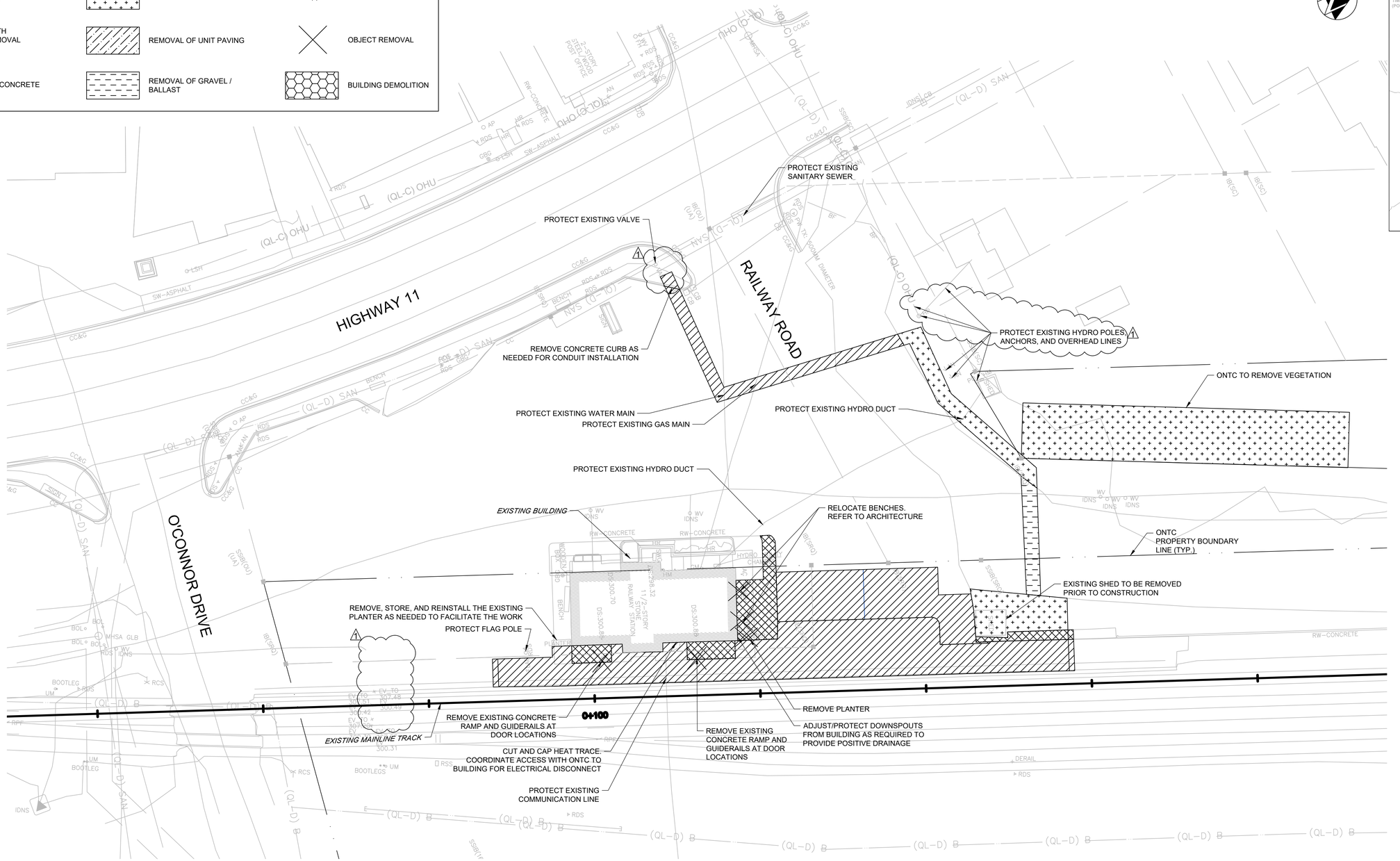
NORTHEAST PASSENGER RAIL SERVICE
ONTARIO, CANADA
REINSTATED STATIONS (PACKAGE 1 & 2)
NORTH BAY STATION
CIVIL
CONSTRUCTION AREA

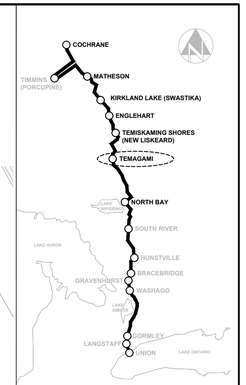
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|---|---|
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| SCALE 1:250 | DATE 03/18/2024 |
| DRAWING NUMBER | C06-204 |
| SHEET 13 | OF 173 |

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CREATED: 2024-01-25 MODIFIED: 2024-05-17 15:28

## LEGEND

- REMOVAL OF ASPHALT (FULL DEPTH)
- PARTIAL DEPTH ASPHALT REMOVAL (MILL 50mm)
- REMOVAL OF CONCRETE
- REMOVAL OF VEGETATION
- REMOVAL OF UNIT PAVING
- REMOVAL OF GRAVEL / BALLAST
- LINEAR REMOVAL
- OBJECT REMOVAL
- BUILDING DEMOLITION




KEYPLAN
N.T.S.

**NOTES:**

1. REFER TO GRADING PLAN FOR NORTHINGS AND EASTINGS ASSOCIATED WITH PLATFORM AND ASSOCIATED WORK.

1:250 5m 0 5 10 15

IFT DESIGN
NOT FOR CONSTRUCTION

| NO. | DATE | MODIFICATION | DRAWN | CHKD. | APPRVD. |
|---|---|---|---|---|---|
| 1 | 05/17/2024 | ADDENDUM NO. 1 | BD | TJD | KC |

REVISIONS

| | |
|---|---|
| DESIGNED | BD |
| DRAWN | BD |
| CHECKED | TJD |
| APPROVED | CV |

Ontario Northland

GANNETT FLEMING

NORTHEAST PASSENGER RAIL SERVICE
ONTARIO, CANADA
REINSTATED STATIONS (PACKAGE 1 & 2)
TEMAGAMI STATION
CIVIL
DEMOLITION PLAN

| | |
|---|---|
| CONTRACT NUMBER | 13258 |
| SCALE | 1:250 |
| DATE | 03/18/2024 |
| DRAWING NUMBER | C07-101 |
| SHEET | 14 |
| OF | 173 |

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CREATED: 2024-05-17
MODIFIED: 2024-05-17 15:29

## LEGEND

- SEEDING/SODDING
- ASPHALT PAVING (PARTIAL DEPTH)
- CONCRETE
- GRAVEL / BALLAST
- ASPHALT PAVING (FULL DEPTH)
- UNIT PAVERS

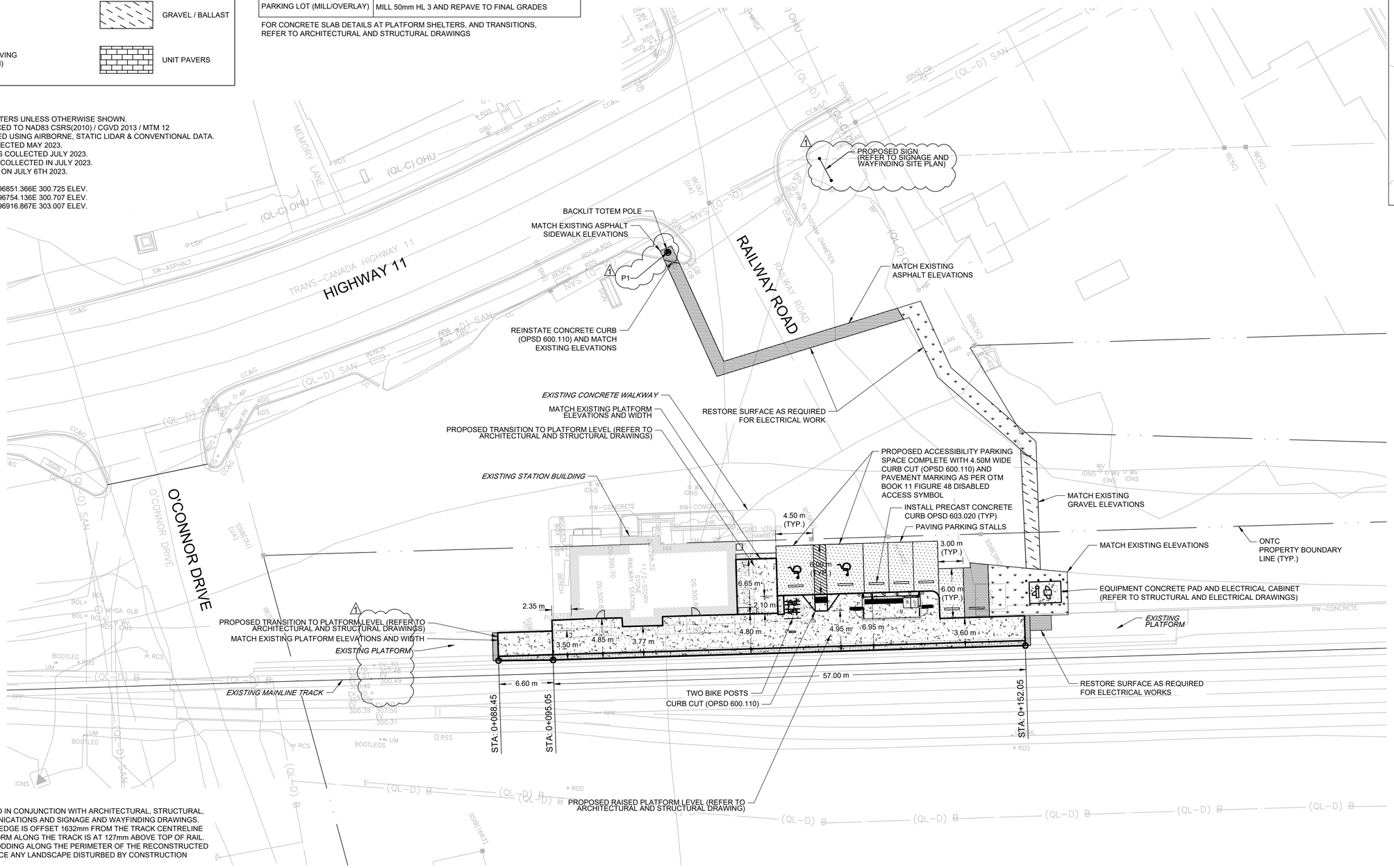
| TEMAGAMI STATION PAVEMENT DESIGN TABLE | | | | |
|---|---|---|---|---|
| FEATURE | ASPHALT | CONCRETE | GRAN "A" | GRAN "B" |
| STATION PLATFORM | REFER TO ARCHITECTURAL/STRUCTURAL DRAWINGS | | | |
| PARKING LOT (FULL DEPTH) | 40mm HL 3<br>40mm HL 8 | - | 150mm | 300mm |
| PARKING LOT (MILL/OVERLAY) | MILL 50mm HL 3 AND REPAVE TO FINAL GRADES | | | |

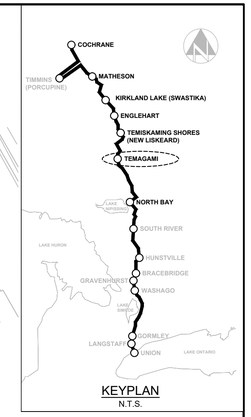
FOR CONCRETE SLAB DETAILS AT PLATFORM SHELTERS, AND TRANSITIONS, REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS

| Point Table | | |
|---|---|---|
| Point # | Northing | Easting |
| P1 | 5214536.2305 | 396758.6725 |

**SURVEY NOTES:**

1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.
2. THE DRAWING IS REFERENCED TO NAD83 CSRS(2010) / CGVD 2013 / MTM 12
3. SURVEY HAS BEEN COMPILED USING AIRBORNE, STATIC LIDAR & CONVENTIONAL DATA.
   - 3.1. AIRBORNE DATA COLLECTED MAY 2023.
   - 3.2. STATIC DATA FOR WAS COLLECTED JULY 2023.
   - 3.3. CONVENTIONAL DATA COLLECTED IN JULY 2023.
4. SUE DATA WAS COLLECTED ON JULY 6TH 2023.
5. PROJECT CONTROLS:
   - 5.1. 07-101 5214625.520N 396851.366E 300.725 ELEV.
   - 5.2. 07-102 5214480.358N 396754.136E 300.707 ELEV.
   - 5.3. 07-103 5214405.864N 396916.867E 303.007 ELEV.




**NOTES:**

1. DRAWING TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, STRUCTURAL, ELECTRICAL, COMMUNICATIONS AND SIGNAGE AND WAYFINDING DRAWINGS.
2. CONFIRM PLATFORM EDGE IS OFFSET 1632mm FROM THE TRACK CENTRELINE AND THE TOP PLATFORM ALONG THE TRACK IS AT 127mm ABOVE TOP OF RAIL.
3. PROVIDE SEEDING/SODDING ALONG THE PERIMETER OF THE RECONSTRUCTED PLATFORM TO REPLACE ANY LANDSCAPE DISTURBED BY CONSTRUCTION ACTIVITIES.
4. REFER TO DRAWING NO. C00-001 FOR GENERAL NOTES.

1:250 5m 0 5 10 15

IFT DESIGN
NOT FOR CONSTRUCTION

| NO. | DATE | MODIFICATION | DRAWN | CHKD. | APPRVD. |
|---|---|---|---|---|---|
| | | | | | |

REVISIONS

| NO. | DATE | MODIFICATION | DRAWN | CHKD. | APPRVD. |
|---|---|---|---|---|---|
| 1 | 05/17/2024 | ADDENDUM NO. 1 | BD | TJD | KC |

REVISIONS

DESIGNED BD
DRAWN BD
CHECKED TJD
APPROVED CV

Ontario Northland
GANNETT FLEMING

NORTHEAST PASSENGER RAIL SERVICE
ONTARIO, CANADA
REINSTATED STATIONS (PACKAGE 1 & 2)
TEMAGAMI STATION
CIVIL
GENERAL SITE PLAN

CONTRACT NUMBER 13258
SCALE 1:250
DATE 03/18/2024
DRAWING NUMBER C07-201
SHEET 15 OF 173

FILE NAME: C:\Users\bdeardorff\DCVACCDocs\GANNETT FLEMING INC\073613-ONTC-NorthlanderPassengerRail\Project Files\Design\CIVIL\Wrkg\7_Temo\Sheets\07_201_PLAN.dwg
CREATED: 2023-09-21
MODIFIED: 2024-05-17 15:30

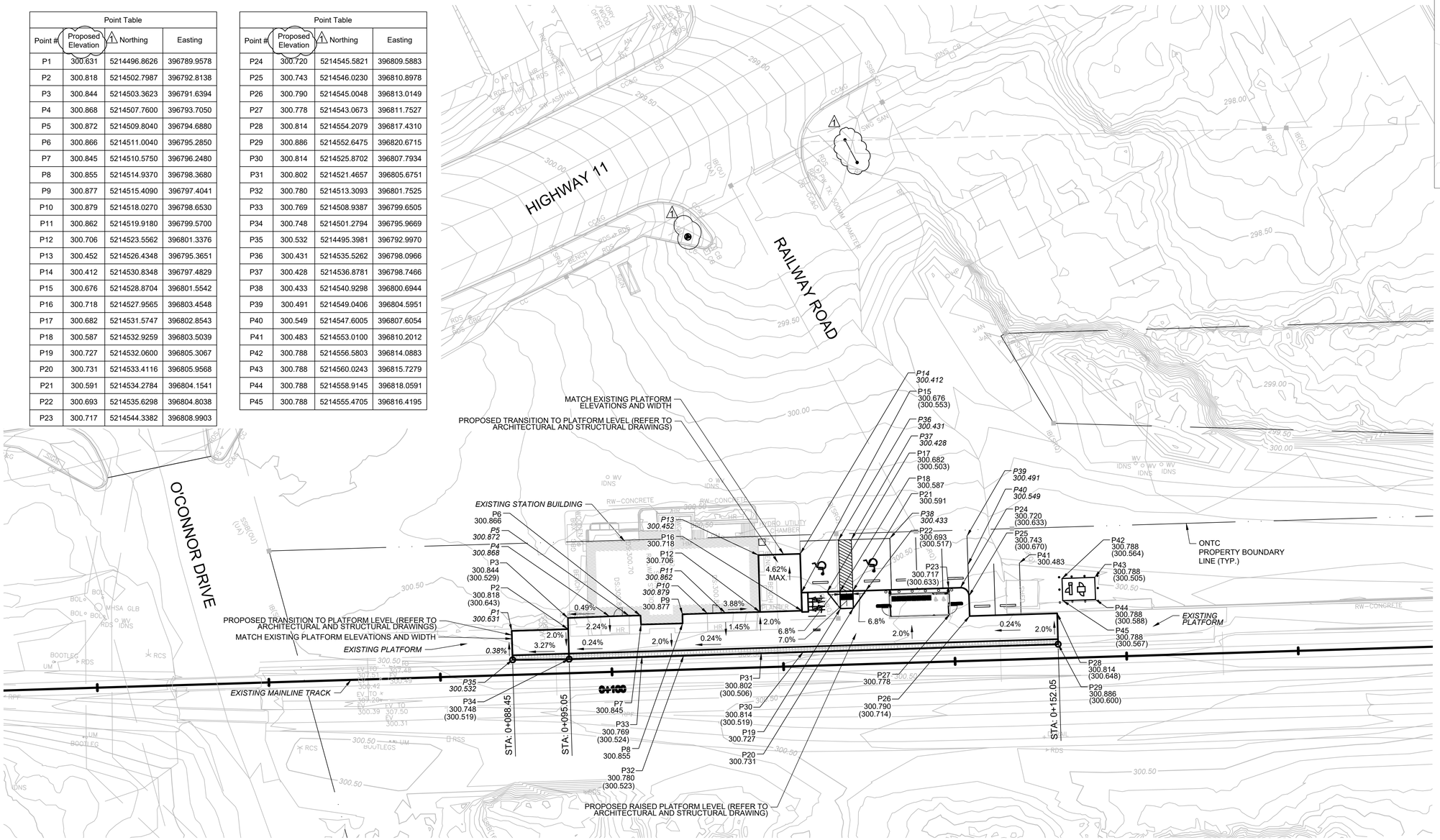
PROJECT NUMBER: 073613
ONTARIO NORTHLAND

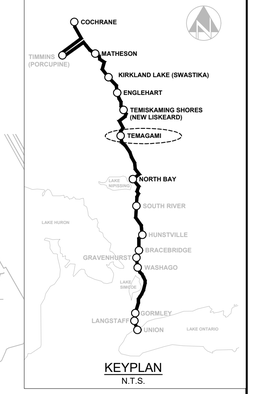
LEGEND

| | |
|---|---|
| XXX.XXX | PROPOSED ELEVATION |
| (XXX.XXX) | BOTTOM ELEVATION |
| *XXX.XXX* | EXISTING ELEVATION |

| Point Table | | | |
|---|---|---|---|
| Point # | Proposed Elevation | Northing | Easting |
| P1 | 300.631 | 5214496.8626 | 396789.9578 |
| P2 | 300.818 | 5214502.7987 | 396792.8138 |
| P3 | 300.844 | 5214503.3623 | 396791.6394 |
| P4 | 300.868 | 5214507.7600 | 396793.7050 |
| P5 | 300.872 | 5214509.8040 | 396794.6880 |
| P6 | 300.866 | 5214511.0040 | 396795.2850 |
| P7 | 300.845 | 5214510.5750 | 396796.2480 |
| P8 | 300.855 | 5214514.9370 | 396798.3680 |
| P9 | 300.877 | 5214515.4090 | 396797.4041 |
| P10 | 300.879 | 5214518.0270 | 396798.6530 |
| P11 | 300.862 | 5214519.9180 | 396799.5700 |
| P12 | 300.706 | 5214523.5562 | 396801.3376 |
| P13 | 300.452 | 5214526.4348 | 396795.3651 |
| P14 | 300.412 | 5214530.8348 | 396797.4829 |
| P15 | 300.676 | 5214528.8704 | 396801.5542 |
| P16 | 300.718 | 5214527.9565 | 396803.4548 |
| P17 | 300.682 | 5214531.5747 | 396802.8543 |
| P18 | 300.587 | 5214532.9259 | 396803.5039 |
| P19 | 300.727 | 5214532.0600 | 396805.3067 |
| P20 | 300.731 | 5214533.4116 | 396805.9568 |
| P21 | 300.591 | 5214534.2784 | 396804.1541 |
| P22 | 300.693 | 5214535.6298 | 396804.8038 |
| P23 | 300.717 | 5214544.3382 | 396808.9903 |

| Point Table | | | |
|---|---|---|---|
| Point # | Proposed Elevation | Northing | Easting |
| P24 | 300.720 | 5214545.5821 | 396809.5883 |
| P25 | 300.743 | 5214546.0230 | 396810.8978 |
| P26 | 300.790 | 5214545.0048 | 396813.0149 |
| P27 | 300.778 | 5214543.0673 | 396811.7527 |
| P28 | 300.814 | 5214554.2079 | 396817.4310 |
| P29 | 300.886 | 5214552.6475 | 396820.6715 |
| P30 | 300.814 | 5214525.8702 | 396807.7934 |
| P31 | 300.802 | 5214521.4657 | 396805.6751 |
| P32 | 300.780 | 5214513.3093 | 396801.7525 |
| P33 | 300.769 | 5214508.9387 | 396799.6505 |
| P34 | 300.748 | 5214501.2794 | 396795.9669 |
| P35 | 300.532 | 5214495.3981 | 396792.9970 |
| P36 | 300.431 | 5214535.5262 | 396798.0966 |
| P37 | 300.428 | 5214536.8781 | 396798.7466 |
| P38 | 300.433 | 5214540.9298 | 396800.6944 |
| P39 | 300.491 | 5214549.0406 | 396804.5951 |
| P40 | 300.549 | 5214547.6005 | 396807.6054 |
| P41 | 300.483 | 5214553.0100 | 396810.2012 |
| P42 | 300.788 | 5214556.5803 | 396814.0883 |
| P43 | 300.788 | 5214560.0243 | 396815.7279 |
| P44 | 300.788 | 5214558.9145 | 396818.0591 |
| P45 | 300.788 | 5214555.4705 | 396816.4195 |




1:250 5m 0 5 10 15

IFT DESIGN
NOT FOR CONSTRUCTION

| NO. | DATE | MODIFICATION | DRAWN | CHKD. | APPRVD. |
|---|---|---|---|---|---|
| | | | | | |

REVISIONS

| NO. | DATE | MODIFICATION | DRAWN | CHKD. | APPRVD. |
|---|---|---|---|---|---|
| 1 | 05/17/2024 | ADDENDUM NO. 1 | BD | TJD | KC |

REVISIONS

DESIGNED UG
DRAWN UG
CHECKED TJD
APPROVED CV

Ontario Northland

GANNETT FLEMING

NORTHEAST PASSENGER RAIL SERVICE
ONTARIO, CANADA
REINSTATED STATIONS (PACKAGE 1 & 2)

TEMAGAMI STATION
CIVIL
GRADING PLAN

CONTRACT NUMBER 13258
SCALE 1:250
DATE 03/18/2024
DRAWING NUMBER C07-202
SHEET -
OF -

FILE NAME: C:\Users\ugarcia1zaguirre\OC\ACCDocs\GANNETT FLEMING INC\073613-ONTC-NorthlanderPassengerRail\Project Files\Design\CIVIL\Wrkg\7_Temo\Sheets\07_202_ELEV.dwg
CREATED: 2023-10-19
MODIFIED: 2024-05-17 15:32

ONTARIO NORTHLAND PROJECT NUMBER: 073613

HIGHWAY 11

O'CONNOR DRIVE

RAILWAY ROAD

S 300mm Ø CONC. SAN
MH-003
N 300mm Ø CONC. SAN
E 300mm Ø CONC. SAN
CB-006
300mm Ø CONC. STM
(N CONNECTION NOT IDENTIFIED)
300mm Ø CONC. STM
(W CONNECTION NOT IDENTIFIED)
CB-004
300mm Ø CONC. STM
(N CONNECTION NOT IDENTIFIED)
100mm Ø PVC STM
(S CONNECTION NOT IDENTIFIED)
MH-005
DEBRIS OVER PIPES (0.74m TO DEBRIS)
NO ACCESS
300mm Ø CONC. STM
(N-W CONNECTION NOT IDENTIFIED)
CB-007
300mm Ø CONC. STM
CB-008
50mm Ø PVC STM
(E CONNECTION
NOT IDENTIFIED)
100mm Ø
CAST IRON SAN
MH-002
150mm Ø
CAST IRON SAN
EXISTING
MAINLINE
TRACK
ONTC
PROPERTY BOUNDARY
LINE (TYP.)

KEYPLAN
N.T.S.
COCHRANE
TIMMINS (PORCUPINE)
MATHESON
KIRKLAND LAKE (SWASTIKA)
ENGLEHART
TEMISKAMING SHORES (NEW LISKEARD)
TEMAGAMI
NORTH BAY
SOUTH RIVER
HUNTSVILLE
BRACEBRIDGE
GRAVENHURST
WASHAGO
ORMSBY
LANGSTAFF
UNION

LEGEND

| | |
|---|---|
| (QL-B) COMB | COMBINATION SEWER |
| (QL-B) STM | STORM SEWER |
| (QL-B) SAN | SANITARY SEWER |
| (QL-B) W | WATER MAIN |
| (QL-B) WSRV | WATER SERVICE |
| (QL-B) W ABND | WATER MAIN (ABANDONED) |
| (QL-B) G | GAS MAIN |
| (QL-B) GSRV | GAS SERVICE |
| (QL-B) G ABND | GAS MAIN (ABANDONED) |
| (QL-B) HONI | HYDRO ONE |
| (QL-B) H | HYDRO |
| (QL-B) SL | STREET LIGHTING |
| (QL-B) TC | TRAFFIC CONTROL |
| (QL-B) TTC | TORONTO TRANSIT COMMISION |
| (QL-B) MTO | MINISTRY OF TRANSPORTATION |
| (QL-B) AP | APTUM TECH |
| (QL-B) B | BELL CANADA |
| (QL-B) B-FO | BELL CANADA FIBRE OPTIC |
| (QL-B) BF | BEANFIELD |
| (QL-B) CO | COGECO |
| (QL-B) GT | GROUP TELECOM |
| (QL-B) GO | GO COMMUNICATIONS |
| (QL-B) METX | METROLINX |
| (QL-B) AS | ALLSTREAM |
| (QL-B) R | ROGERS |
| (QL-B) R-FO | ROGERS FIBRE OPTIC |
| (QL-B) T | TELUS |
| (QL-B) TEL UNKN | UNKNOWN TELECOM |
| (QL-B) VT | VIDEOTRON |
| (QL-B) ZG | ZAYO GROUP |
| (QL-B) 360 | 360 NETWORK |
| (QL-B) CN | CN RAIL COMMUNICATIONS |
| (QL-B) CP | CP RAIL COMMUNICATIONS |
| (QL-B) TCPL | TRANS-CANADIAN PIPELINE |
| (QL-B) SCPL | SUN-CANADIAN PIPELINE |
| (QL-B) STEAM | STEAM PIPE |
| (QL-C) OHU | UNKNOWN AERIAL |

1:250 5m 0 5 10 15

IFT DESIGN
NOT FOR CONSTRUCTION

| NO. | DATE | MODIFICATION | DRAWN | CHKD. | APPRVD. |
|---|---|---|---|---|---|
| | | REVISIONS | | | |
| 1 | 05/17/2024 | ADDENDUM NO. 1 | BD | TJD | KC |
| NO. | DATE | MODIFICATION | DRAWN | CHKD. | APPRVD. |
| | | REVISIONS | | | |

DESIGNED N/A
DRAWN BD
CHECKED TJD
APPROVED CV

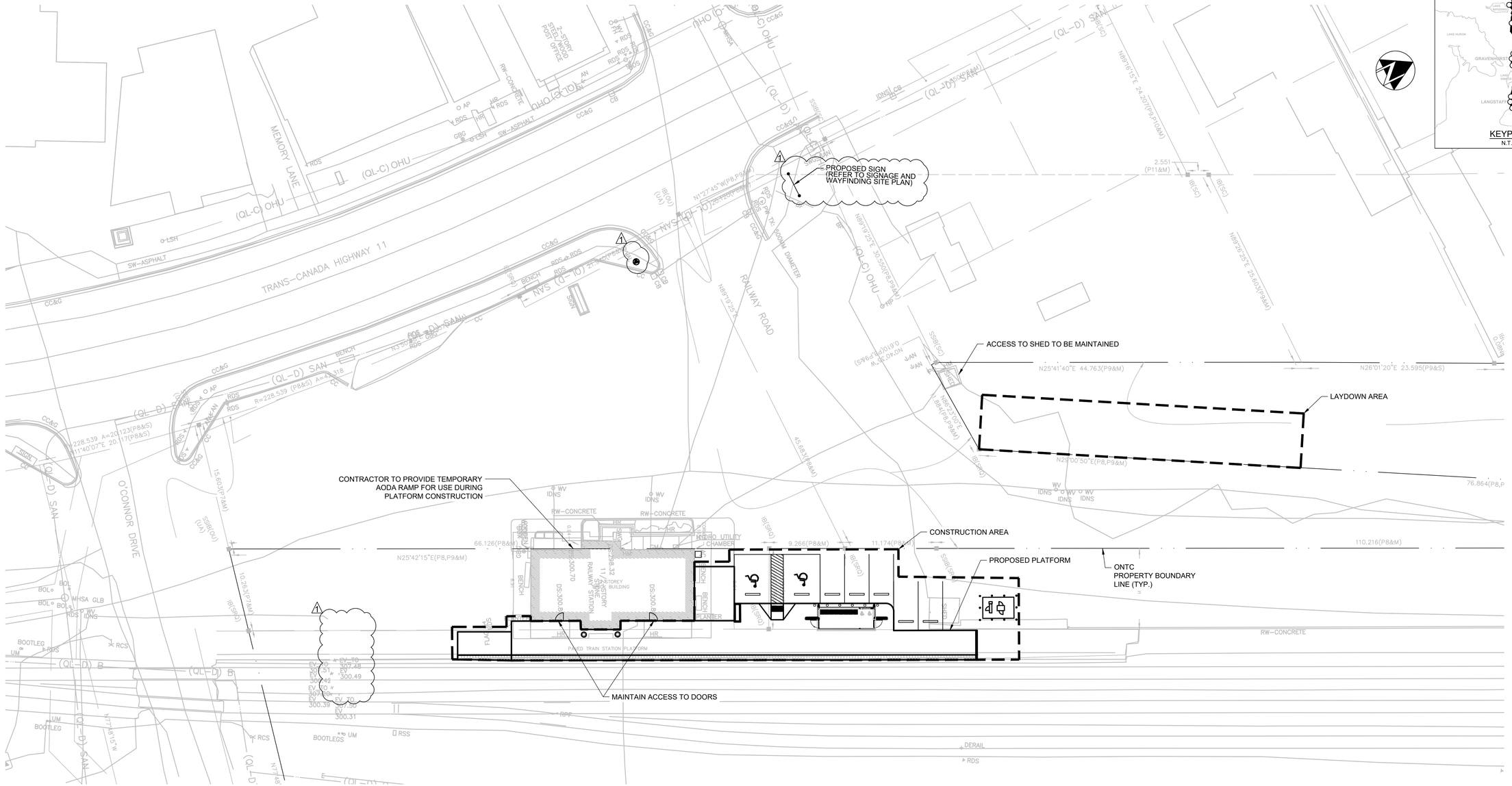
Ontario Northland
GANNETT FLEMING

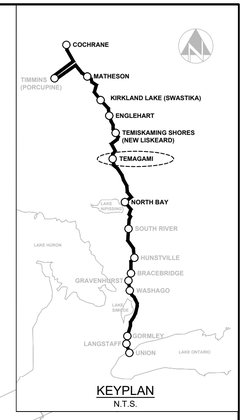
NORTHEAST PASSENGER RAIL SERVICE
ONTARIO, CANADA
REINSTATED STATIONS (PACKAGE 1 & 2)
TEMAGAMI STATION
CIVIL
EXISTING UTILITY COMPOSITE PLAN

CONTRACT NUMBER 13258
SCALE 1:250
DATE 03/18/2024
DRAWING NUMBER C07-203
SHEET 17 OF 173

FILE NAME: C:\Users\bdeardorff\OC\ACCDocs\GANNETT FLEMING INC\073613-ONTC-NorthlanderPassengerRail\Project Files\Design\CIVIL\Wrkg\7_Temp\Sheets\07_203_UTIL_EX.dwg
CREATED: 2024-05-17
MODIFIED: 2024-05-17 15:32

ONTARIO NORTHLAND PROJECT NUMBER: 073613




KEYPLAN
N.T.S.

5m 0 5 10 15
1:250

IFT DESIGN
NOT FOR CONSTRUCTION

| NO. | DATE | MODIFICATION | DRAWN | CHKD. | APPRVD. |
|---|---|---|---|---|---|
| | | | | | |

REVISIONS

| NO. | DATE | MODIFICATION | BD | TJD | KC |
|---|---|---|---|---|---|
| 1 | 05/17/2024 | ADDENDUM NO. 1 | | | |

REVISIONS

DESIGNED KH
DRAWN KH
CHECKED TJD
APPROVED CV

Ontario Northland

GANNETT FLEMING

NORTHEAST PASSENGER RAIL SERVICE
ONTARIO, CANADA
REINSTATED STATIONS (PACKAGE 1 & 2)

TEMAGAMI STATION
CIVIL
CONSTRUCTION AREA

CONTRACT NUMBER
SCALE 1:250
DATE
DRAWING NUMBER C07-204
SHEET 18 OF 173

FILE NAME: C:\Users\bdeardorff\DC\ACCDocs\GANNETT FLEMING INC\073613-ONTC-NorthlanderPassengerRail\Project Files\Design\CIVIL\Wrkg\7_Tema\Sheets\07_204_STAGE.dwg
CREATED: 2024-05-16 MODIFIED: 2024-05-17 15:43

PROJECT NUMBER: 073613
ONTARIO NORTHLAND

LEGEND

| | | |
|---|---|---|
| REMOVAL OF ASPHALT (FULL DEPTH) | REMOVAL OF VEGETATION | LINEAR REMOVAL |
| PARTIAL DEPTH ASPHALT REMOVAL (MILL 50mm) | REMOVAL OF UNIT PAVING | OBJECT REMOVAL |
| REMOVAL OF CONCRETE | REMOVAL OF GRAVEL / BALLAST | BUILDING DEMOLITION |

**NOTES:**

1. FOR EXISTING PARKING LOT, REMOVE 60mm ASPHALT AND PLACE 100mm GRANULAR 'A'.

CLEAN DITCH AND REMOVE DEBRIS FOR PROPER STORMWATER FLOW AROUND SITE PERIMETER
PROTECT EXISTING STREET LIGHTING
MATCH LINE (SEE THIS SHEET)
REMOVE GUIDERAIL AROUND SITE PERIMETER
REMOVE 60mm ASPHALT
PROTECT EXISTING ELECTRICAL LINE
PROTECT EXISTING STREET LIGHTING
REMOVE GUIDERAIL 1
PROTECT EXISTING SANITARY
CLEAN DITCH AND REMOVE DEBRIS FOR PROPER STORMWATER FLOW AROUND SITE PERIMETER
PROTECT EXISTING GAS LINE
PROTECT EXISTING ELECTRICAL LINE
1 COORDINATE WITH ONTC TO FACILITATE ENBRIDGE GAS REMOVAL
0+100
0+000
PROTECT EXISTING STREET LIGHTING
PROTECT EXISTING COMMUNICATION LINE
REMOVE MONITORING WELL DURING SLAB CONSTRUCTION
REMOVE EXISTING STREET LIGHTING, CABLES PULLED OUT, DUCTS SEALED, AND MAKE SAFE
REMOVE EXISTING PLATFORM INCLUDING EXISTING WOOD CURB ALONG PLATFORM PERIMETER
*EXISTING MAINLINE TRACK*
ONTC PROPERTY BOUNDARY LINE

1 PROPOSED SIGN (REFER TO SIGNAGE AND WAYFINDING SITE PLAN)
PROTECT HYDRO POLE AND OVERHEAD LINES
REMOVE SIGN POSTS
PROTECT EXISTING WATER SERVICE
PROTECT EXISTING STREET LIGHTING
PROTECT HYDRO POLE ANCHORS AND OVERHEAD LINES
PROTECT GUIDERAIL
PROTECT EXISTING POLE
PROTECT EXISTING STREET LIGHTING
PROTECT EXISTING POLE AND ANCHOR
PROTECT EXISTING WATER SERVICE
PROTECT EXISTING POST
PROTECT EXISTING CULVERT
REMOVE GUIDERAIL AROUND SITE PERIMETER
CLEAN DITCH AND REMOVE DEBRIS FOR PROPER STORMWATER FLOW AROUND SITE PERIMETER
PROTECT EXISTING GAS LINE
REMOVE GUIDERAIL 1
PROTECT EXISTING ELECTRICAL LINE
MATCH LINE (SEE THIS SHEET)

5m 0 5 10 15
1:250

KEYPLAN
N.T.S.
COCHRANE
TIMMINS (PORCUPINE)
MATHESON
KIRKLAND LAKE (SWASTIKA)
ENGLEHART
TEMISKAMING SHORES (NEW LISKEARD)
TEMAGAMI
NORTH BAY
SOUTH RIVER
HUNTSVILLE
GRACEBRIDGE
GRAVENHURST
WASHAGO
ORILLIA
ORMLEY
LANGSTAFF
UNION
LAKE HURON
LAKE ONTARIO

IFT DESIGN
NOT FOR CONSTRUCTION

| NO. | DATE | MODIFICATION | DRAWN | CHKD. | APPRVD. |
|---|---|---|---|---|---|
| 1 | 05/17/2024 | ADDENDUM NO. 1 | BD | TJD | KC |

REVISIONS

DESIGNED BD
DRAWN BD
CHECKED TJD
APPROVED CV

Ontario Northland
GANNETT FLEMING

NORTHEAST PASSENGER RAIL SERVICE
ONTARIO, CANADA
REINSTATED STATIONS (PACKAGE 1 & 2)
TEMISKAMING SHORES STATION
CIVIL
DEMOLITION PLAN

CONTRACT NUMBER 13258
SCALE 1:250
DATE 03/18/2024
DRAWING NUMBER C08-101
SHEET 19 OF 173

FILE NAME: C:\Users\kdeardorff\DC\ACCDocs\GANNETT FLEMING INC\073613-ONTC-NorthlanderPassengerRail\Project Files\Design\CIVIL\Wrkg\8_Term\Sheets\08_101_DEMO.dwg
CREATED: 2024-05-17
MODIFIED: 2024-05-17 15:43

## LEGEND

- SEEDING/SODDING
- ASPHALT PAVING (PARTIAL DEPTH)
- CONCRETE
- GRAVEL / BALLAST
- ASPHALT PAVING (FULL DEPTH)
- UNIT PAVERS

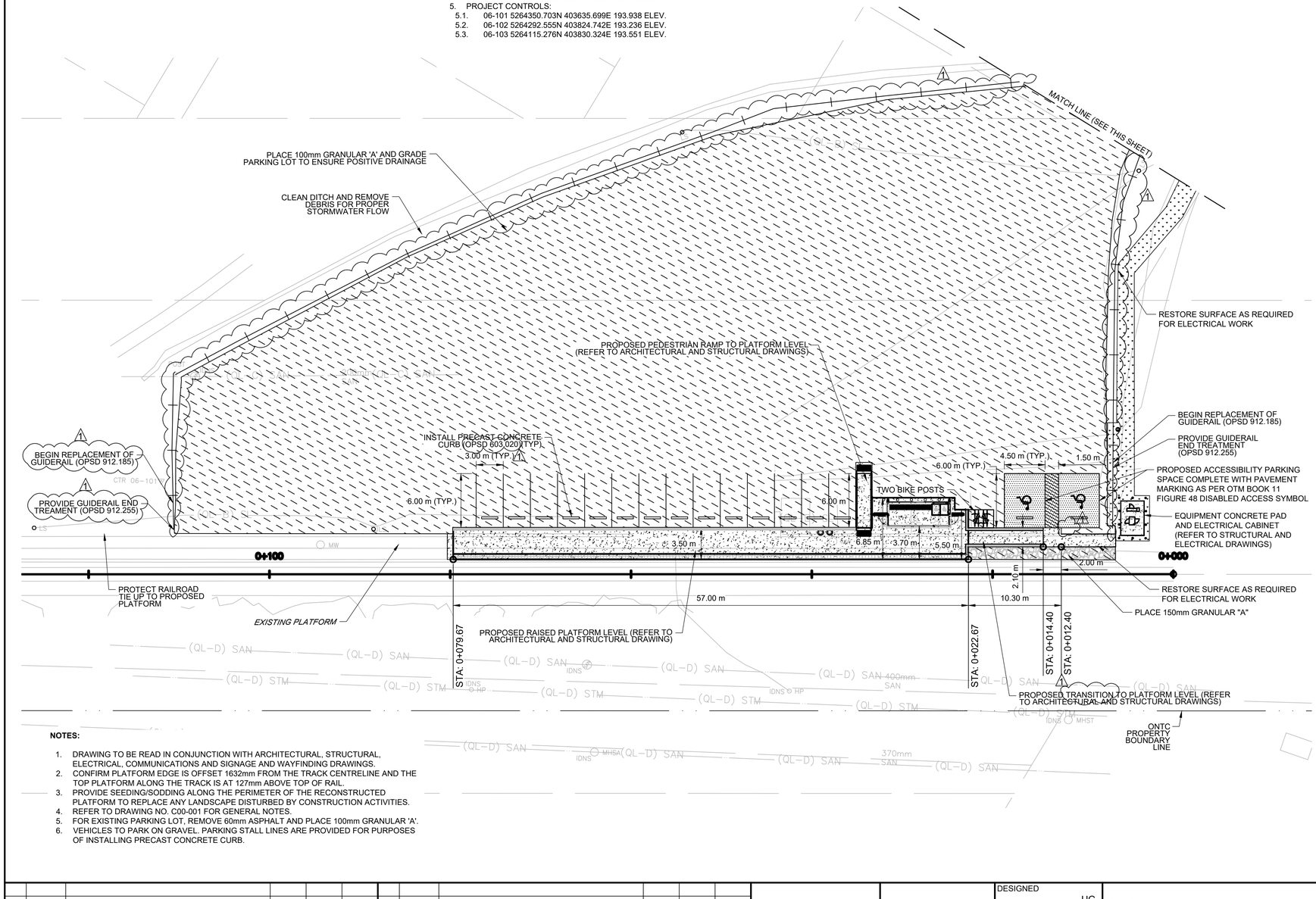
| TEMISKAMING SHORES STATION PAVEMENT DESIGN TABLE | | | | |
|---|---|---|---|---|
| FEATURE | ASPHALT | CONCRETE | GRAN "A" | GRAN "B" |
| STATION PLATFORM | REFER TO ARCHITECTURAL/STRUCTURAL DRAWINGS | | | |
| PARKING LOT (MILL/OVERLAY) | MILL 50mm HL 3 AND REPAVE TO FINAL GRADES | | | |
| PARKING LOT (GRAVEL) | - | - | 100mm | - |

FOR CONCRETE SLAB DETAILS AT PLATFORM SHELTERS, RAMPS, AND TRANSITIONS, REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS

| Point Table | | |
|---|---|---|
| Point # | Northing | Easting |
| P1 | 5264292.6599 | 403819.3458 |

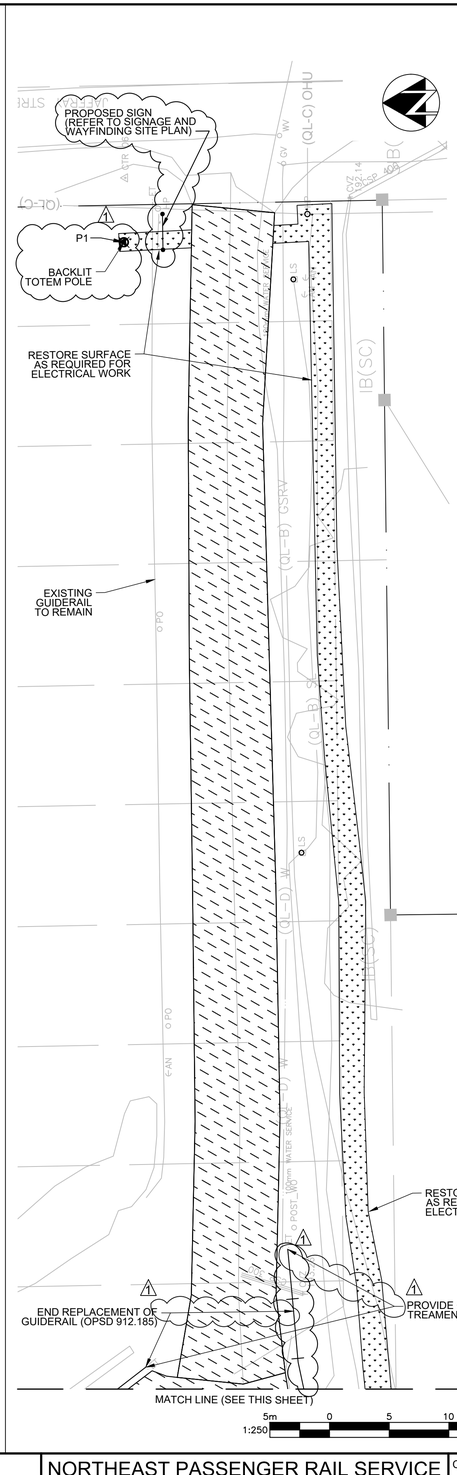
**SURVEY NOTES:**

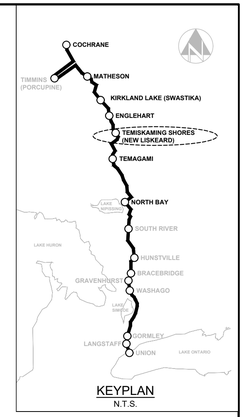
1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.
2. THE DRAWING IS REFERENCED TO NAD83 CSRS(2010) / CGVD 2013 / MTM 12
3. SURVEY HAS BEEN COMPILED USING AIRBORNE, STATIC LIDAR & CONVENTIONAL DATA.
   - 3.1. AIRBORNE DATA COLLECTED MAY 2023.
   - 3.2. STATIC DATA FOR WAS COLLECTED JULY 2023.
   - 3.3. CONVENTIONAL DATA COLLECTED IN JULY 2023.
4. SUE DATA WAS COLLECTED ON JULY 12TH 2023.
5. PROJECT CONTROLS:
   - 5.1. 06-101 5264350.703N 403635.699E 193.938 ELEV.
   - 5.2. 06-102 5264292.555N 403824.742E 193.236 ELEV.
   - 5.3. 06-103 5264115.276N 403830.324E 193.551 ELEV.




**NOTES:**

1. DRAWING TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, STRUCTURAL, ELECTRICAL, COMMUNICATIONS AND SIGNAGE AND WAYFINDING DRAWINGS.
2. CONFIRM PLATFORM EDGE IS OFFSET 1632mm FROM THE TRACK CENTRELINE AND THE TOP PLATFORM ALONG THE TRACK IS AT 127mm ABOVE TOP OF RAIL.
3. PROVIDE SEEDING/SODDING ALONG THE PERIMETER OF THE RECONSTRUCTED PLATFORM TO REPLACE ANY LANDSCAPE DISTURBED BY CONSTRUCTION ACTIVITIES.
4. REFER TO DRAWING NO. C00-001 FOR GENERAL NOTES.
5. FOR EXISTING PARKING LOT, REMOVE 60mm ASPHALT AND PLACE 100mm GRANULAR 'A'.
6. VEHICLES TO PARK ON GRAVEL. PARKING STALL LINES ARE PROVIDED FOR PURPOSES OF INSTALLING PRECAST CONCRETE CURB.




KEYPLAN
N.T.S.

1:250 — 5m 0 5 10 15

IFT DESIGN
NOT FOR CONSTRUCTION

| NO. | DATE | MODIFICATION | DRAWN | CHKD. | APPRVD. |
|---|---|---|---|---|---|
| | | | | | |
| 1 | 05/17/2024 | ADDENDUM NO. 1 | BD | TJD | KC |

REVISIONS

DESIGNED UG
DRAWN UG
CHECKED TJD
APPROVED CV

Ontario Northland
GANNETT FLEMING

NORTHEAST PASSENGER RAIL SERVICE
ONTARIO, CANADA
REINSTATED STATIONS (PACKAGE 1 & 2)
TEMISKAMING SHORES STATION
CIVIL
GENERAL SITE PLAN

CONTRACT NUMBER 13258
SCALE 1:250
DATE 03/18/2024
DRAWING NUMBER C08-201
SHEET 20 OF 173

FILE NAME: C:\Users\bdesardorff\DC\ACCDocs\GANNETT FLEMING INC\073613-ONTC-NorthlanderPassengerRail\Project Files\Design\CIVIL\Wrks\8_Temi\Sheets\08_201_PLAN.dwg
CREATED: 2024-05-17
MODIFIED: 2024-05-17 13:05

PROJECT NUMBER: 073613

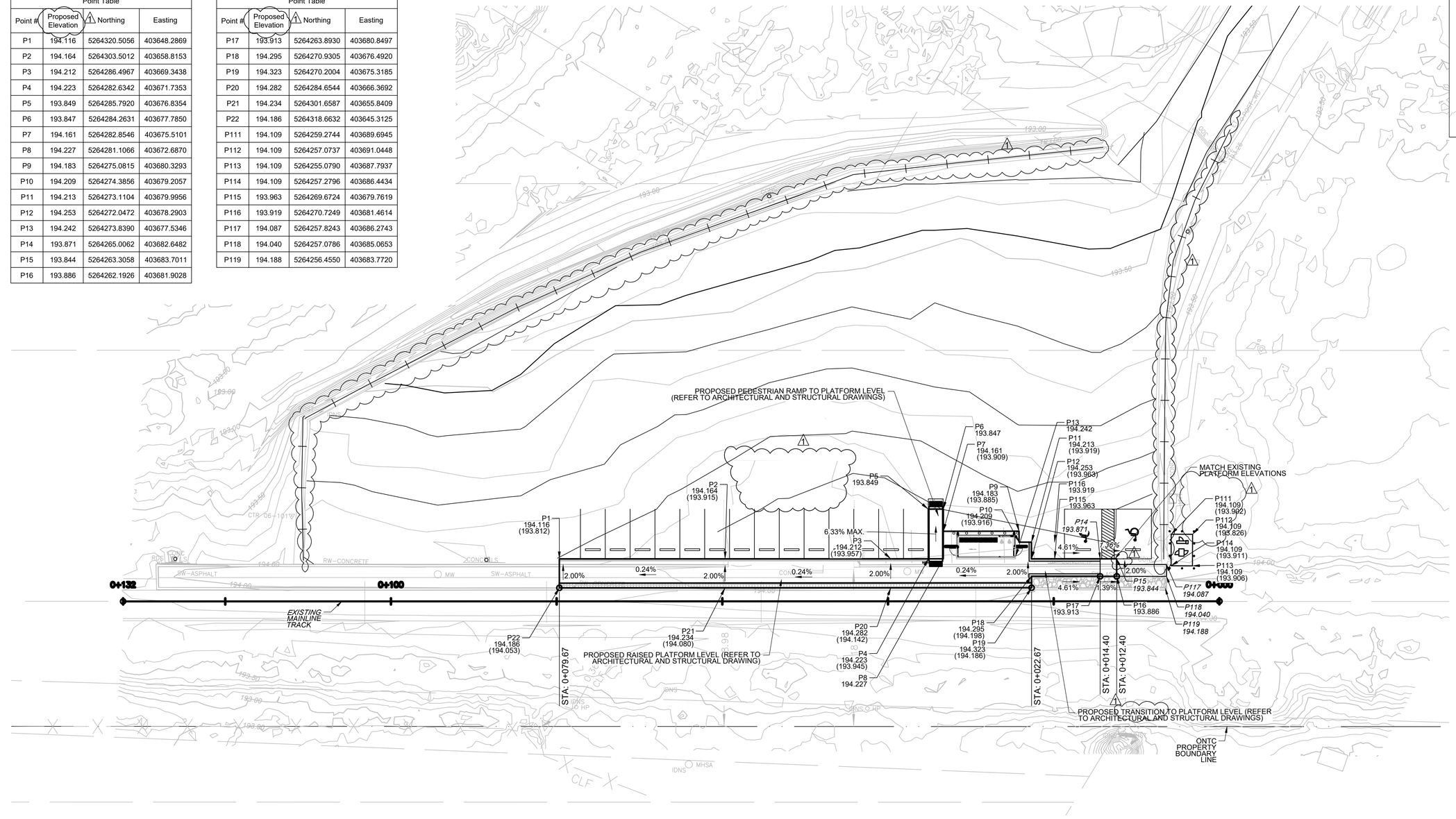
ONTARIO NORTHLAND

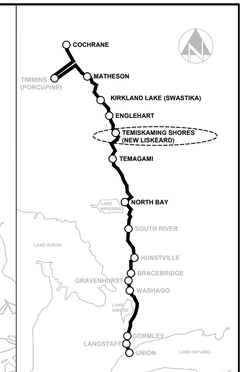
LEGEND

| | |
|---|---|
| XXX.XXX | PROPOSED ELEVATION |
| (XXX.XXX) | BOTTOM ELEVATION |
| *XXX.XXX* | EXISTING ELEVATION |

| Point Table | | | |
|---|---|---|---|
| Point # | Proposed Elevation | Northing | Easting |
| P1 | 194.116 | 5264320.5056 | 403648.2869 |
| P2 | 194.164 | 5264303.5012 | 403658.8153 |
| P3 | 194.212 | 5264286.4967 | 403669.3438 |
| P4 | 194.223 | 5264282.6342 | 403671.7353 |
| P5 | 193.849 | 5264285.7920 | 403676.8354 |
| P6 | 193.847 | 5264284.2631 | 403677.7850 |
| P7 | 194.161 | 5264282.8546 | 403675.5101 |
| P8 | 194.227 | 5264281.1066 | 403672.6870 |
| P9 | 194.183 | 5264275.0815 | 403680.3293 |
| P10 | 194.209 | 5264274.3856 | 403679.2057 |
| P11 | 194.213 | 5264273.1104 | 403679.9956 |
| P12 | 194.253 | 5264272.0472 | 403678.2903 |
| P13 | 194.242 | 5264273.8390 | 403677.5346 |
| P14 | 193.871 | 5264265.0062 | 403682.6482 |
| P15 | 193.844 | 5264263.3058 | 403683.7011 |
| P16 | 193.886 | 5264262.1926 | 403681.9028 |

| Point Table | | | |
|---|---|---|---|
| Point # | Proposed Elevation | Northing | Easting |
| P17 | 193.913 | 5264263.8930 | 403680.8497 |
| P18 | 194.295 | 5264270.9305 | 403676.4920 |
| P19 | 194.323 | 5264270.2004 | 403675.3185 |
| P20 | 194.282 | 5264284.6544 | 403666.3692 |
| P21 | 194.234 | 5264301.6587 | 403655.8409 |
| P22 | 194.186 | 5264318.6632 | 403645.3125 |
| P111 | 194.109 | 5264259.2744 | 403689.6945 |
| P112 | 194.109 | 5264257.0737 | 403691.0448 |
| P113 | 194.109 | 5264255.0790 | 403687.7937 |
| P114 | 194.109 | 5264257.2796 | 403686.4434 |
| P115 | 193.963 | 5264269.6724 | 403679.7619 |
| P116 | 193.919 | 5264270.7249 | 403681.4614 |
| P117 | 194.087 | 5264257.8243 | 403686.2743 |
| P118 | 194.040 | 5264257.0786 | 403685.0653 |
| P119 | 194.188 | 5264256.4550 | 403683.7720 |




KEYPLAN
N.T.S.

1:250 5m 0 5 10 15

IFT DESIGN
NOT FOR CONSTRUCTION

| NO. | DATE | MODIFICATION | DRAWN | CHKD. | APPRVD. |
|---|---|---|---|---|---|
| 1 | 05/17/2024 | ADDENDUM NO. 1 | BD | TJD | KC |

REVISIONS

| | |
|---|---|
| DESIGNED | BD |
| DRAWN | BD |
| CHECKED | TJD |
| APPROVED | CV |

Ontario Northland

GANNETT FLEMING

NORTHEAST PASSENGER RAIL SERVICE
ONTARIO, CANADA
REINSTATED STATIONS (PACKAGE 1 & 2)
TEMISKAMING SHORES STATION
CIVIL
GRADING PLAN
SHEET 1 OF 2

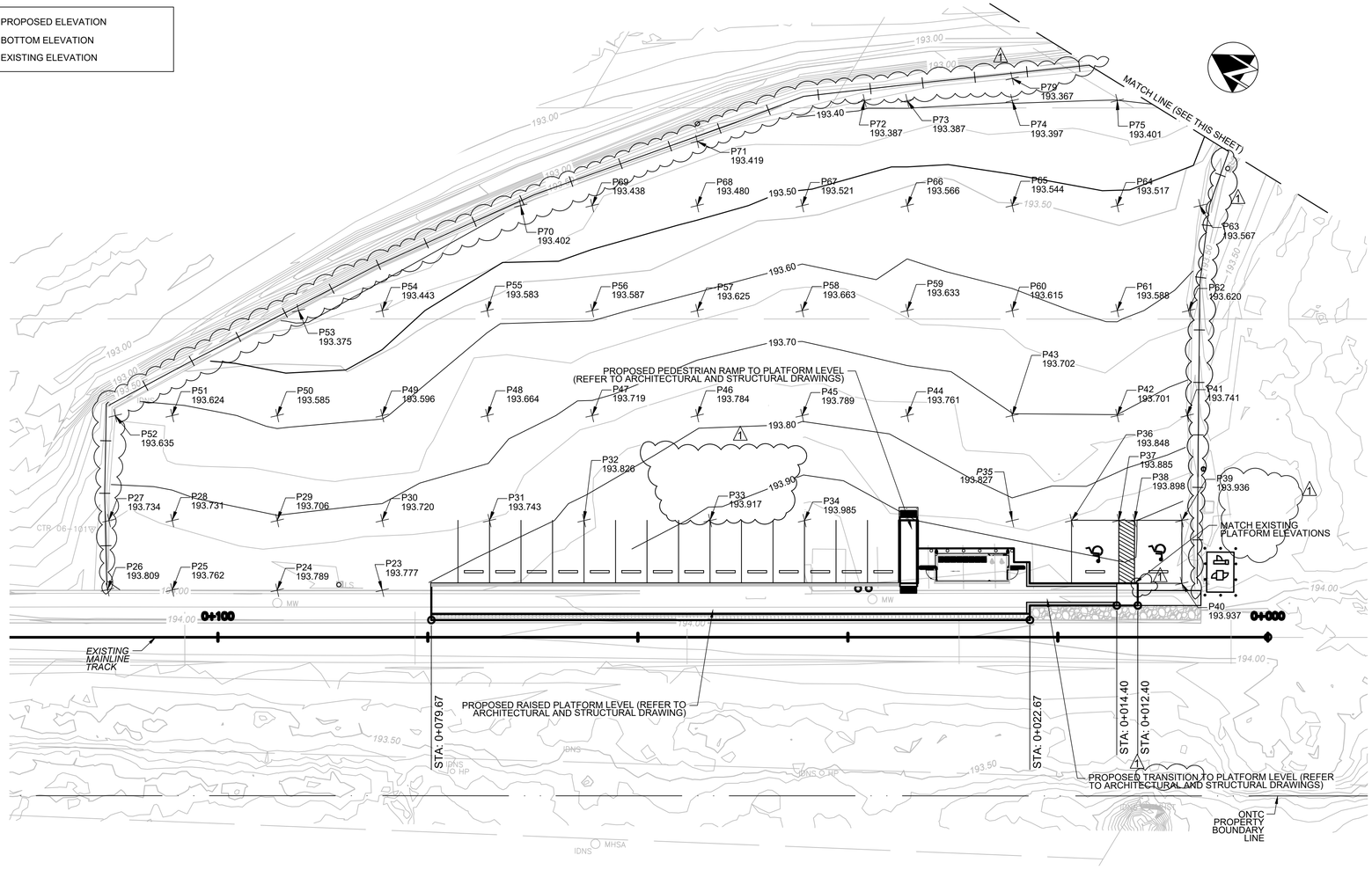
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|---|---|
| CONTRACT NUMBER | 13258 |
| SCALE | 1:250 |
| DATE | 03/18/2024 |
| DRAWING NUMBER | C08-202 |
| SHEET | 21 |
| OF | 173 |

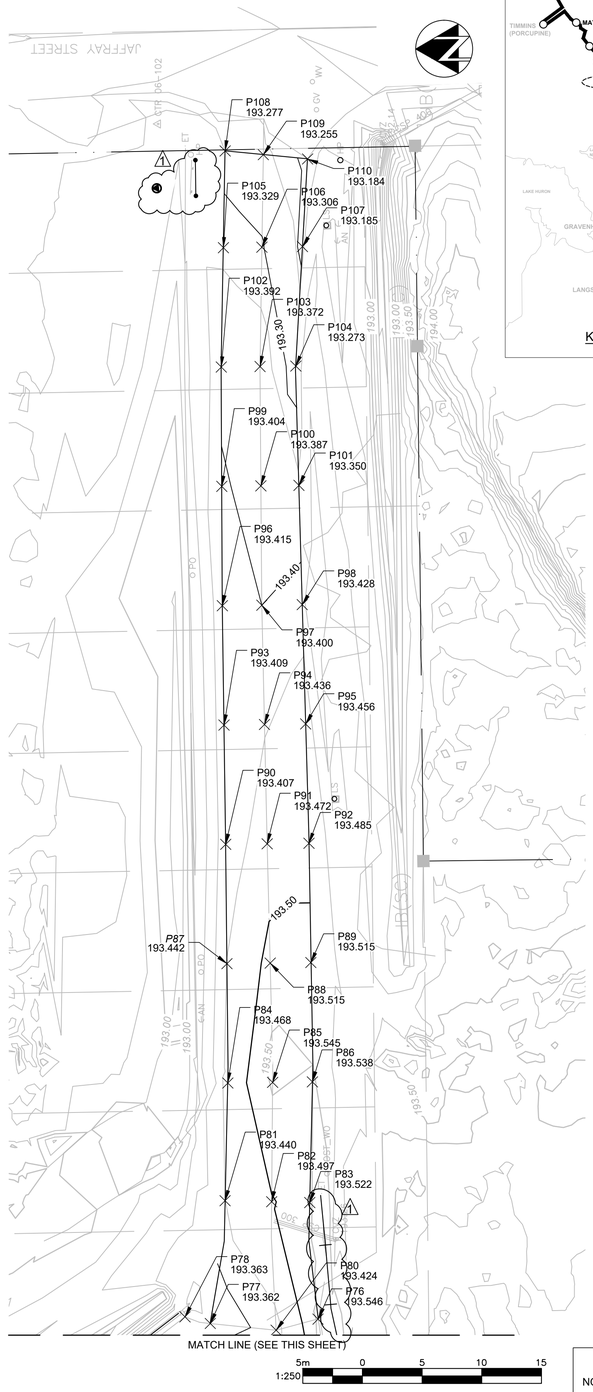
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CREATED: 2024-05-17
MODIFIED: 2024-05-17 15:44

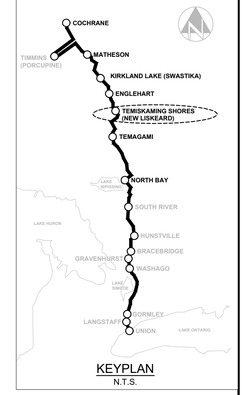
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CREATED: 2024-01-27
MODIFIED: 2024-05-21 09:31
PROJECT NUMBER: 073613
ONTARIO NORTHLAND

LEGEND

| | |
|---|---|
| XXX.XXX | PROPOSED ELEVATION |
| (XXX.XXX) | BOTTOM ELEVATION |
| *XXX.XXX* | EXISTING ELEVATION |




KEYPLAN
N.T.S.

Point Table

| Point # | Proposed Elevation | Northing | Easting |
|---|---|---|---|
| P23 | 193.777 | 5264324.1395 | 403645.2704 |
| P24 | 193.789 | 5264332.6419 | 403640.0064 |
| P25 | 193.762 | 5264341.1531 | 403634.7567 |
| P26 | 193.809 | 5264346.4080 | 403631.5520 |
| P27 | 193.734 | 5264349.7601 | 403637.2187 |
| P28 | 193.731 | 5264344.6390 | 403640.3885 |
| P29 | 193.706 | 5264336.1361 | 403645.6516 |
| P30 | 193.720 | 5264327.6332 | 403650.9147 |
| P31 | 193.743 | 5264318.9419 | 403656.2944 |
| P32 | 193.826 | 5264311.2893 | 403661.0312 |
| P33 | 193.917 | 5264301.0858 | 403667.3469 |
| P34 | 193.985 | 5264293.4332 | 403672.0837 |
| P35 | 193.827 | 5264276.6156 | 403682.4933 |
| P36 | 193.848 | 5264271.8074 | 403685.4695 |
| P37 | 193.885 | 5264267.9811 | 403687.8379 |
| P38 | 193.898 | 5264266.7065 | 403688.6288 |

Point Table

| Point # | Proposed Elevation | Northing | Easting |
|---|---|---|---|
| P39 | 193.936 | 5264262.8793 | 403690.9957 |
| P40 | 193.937 | 5264259.7224 | 403685.8954 |
| P41 | 193.741 | 5264267.7084 | 403699.7673 |
| P42 | 193.701 | 5264273.3758 | 403696.2593 |
| P43 | 193.702 | 5264281.8787 | 403690.9962 |
| P44 | 193.761 | 5264290.3816 | 403685.7331 |
| P45 | 193.789 | 5264298.8846 | 403680.4700 |
| P46 | 193.784 | 5264307.3875 | 403675.2069 |
| P47 | 193.719 | 5264315.8904 | 403669.9438 |
| P48 | 193.664 | 5264324.3934 | 403664.6807 |
| P49 | 193.596 | 5264332.8963 | 403659.4176 |
| P50 | 193.585 | 5264341.3992 | 403654.1545 |
| P51 | 193.624 | 5264349.9021 | 403648.8914 |
| P52 | 193.635 | 5264354.5072 | 403646.0410 |
| P53 | 193.375 | 5264344.9287 | 403663.7305 |
| P54 | 193.443 | 5264338.1594 | 403667.9206 |

Point Table

| Point # | Proposed Elevation | Northing | Easting |
|---|---|---|---|
| P55 | 193.583 | 5264329.6564 | 403673.1837 |
| P56 | 193.587 | 5264321.1535 | 403678.4468 |
| P57 | 193.625 | 5264312.6506 | 403683.7099 |
| P58 | 193.663 | 5264304.1477 | 403688.9730 |
| P59 | 193.633 | 5264295.6447 | 403694.2361 |
| P60 | 193.615 | 5264287.1418 | 403699.4992 |
| P61 | 193.588 | 5264278.6389 | 403704.7623 |
| P62 | 193.620 | 5264272.8561 | 403708.3416 |
| P63 | 193.567 | 5264277.1876 | 403717.4212 |
| P64 | 193.517 | 5264283.9020 | 403713.2652 |
| P65 | 193.544 | 5264292.4049 | 403708.0021 |
| P66 | 193.566 | 5264300.9078 | 403702.7390 |
| P67 | 193.521 | 5264309.4108 | 403697.4759 |
| P68 | 193.480 | 5264317.9137 | 403692.2128 |
| P69 | 193.438 | 5264326.4166 | 403686.9497 |
| P70 | 193.402 | 5264332.2087 | 403683.3646 |

Point Table

| Point # | Proposed Elevation | Northing | Easting |
|---|---|---|---|
| P71 | 193.419 | 5264321.1330 | 403697.4139 |
| P72 | 193.387 | 5264309.6197 | 403709.1072 |
| P73 | 193.387 | 5264306.1709 | 403711.2419 |
| P74 | 193.397 | 5264297.6680 | 403716.5050 |
| P75 | 193.401 | 5264289.1651 | 403721.7681 |
| P76 | 193.546 | 5264279.1498 | 403724.5879 |
| P77 | 193.362 | 5264288.1763 | 403724.2215 |
| P78 | 193.363 | 5264290.2980 | 403724.7780 |
| P79 | 193.367 | 5264298.7813 | 403718.3037 |
| P80 | 193.424 | 5264282.6620 | 403723.6590 |
| P81 | 193.440 | 5264286.9399 | 403734.5092 |
| P82 | 193.497 | 5264283.0357 | 403734.4238 |
| P83 | 193.522 | 5264279.8423 | 403734.3540 |
| P84 | 193.468 | 5264286.7093 | 403744.3744 |
| P85 | 193.545 | 5264282.9554 | 403744.4244 |
| P86 | 193.538 | 5264279.6232 | 403744.4688 |

Point Table

| Point # | Proposed Elevation | Northing | Easting |
|---|---|---|---|
| P87 | 193.442 | 5264286.7793 | 403754.3744 |
| P88 | 193.515 | 5264283.1599 | 403754.4226 |
| P89 | 193.515 | 5264279.7564 | 403754.4679 |
| P90 | 193.407 | 5264286.8889 | 403764.3738 |
| P91 | 193.472 | 5264283.4116 | 403764.4201 |
| P92 | 193.485 | 5264279.9083 | 403764.4668 |
| P93 | 193.409 | 5264287.0276 | 403774.3729 |
| P94 | 193.436 | 5264283.6378 | 403774.4180 |
| P95 | 193.456 | 5264280.1883 | 403774.4640 |
| P96 | 193.415 | 5264287.1682 | 403784.3719 |
| P97 | 193.400 | 5264283.8621 | 403784.4159 |
| P98 | 193.428 | 5264280.4761 | 403784.4610 |
| P99 | 193.404 | 5264287.2143 | 403794.3722 |
| P100 | 193.387 | 5264283.9396 | 403794.4158 |
| P101 | 193.350 | 5264280.7502 | 403794.4582 |
| P102 | 193.392 | 5264287.2587 | 403804.3725 |

Point Table

| Point # | Proposed Elevation | Northing | Easting |
|---|---|---|---|
| P103 | 193.372 | 5264284.0087 | 403804.4157 |
| P104 | 193.273 | 5264281.0109 | 403804.4557 |
| P105 | 193.329 | 5264287.0798 | 403814.3757 |
| P106 | 193.306 | 5264283.8552 | 403814.4187 |
| P107 | 193.185 | 5264280.4510 | 403814.4735 |
| P108 | 193.277 | 5264286.9347 | 403822.4810 |
| P109 | 193.255 | 5264283.7362 | 403822.1701 |
| P110 | 193.184 | 5264280.0227 | 403821.8090 |

| NO. | DATE | MODIFICATION | DRAWN | CHKD. | APPRVD. |
|---|---|---|---|---|---|
| | | | | | |

REVISIONS

| NO. | DATE | ADDENDUM NO. 1 | BD | TJD | KC |
|---|---|---|---|---|---|
| 1 | 05/17/2024 | | | | |

REVISIONS

| | |
|---|---|
| DESIGNED | UG |
| DRAWN | UG |
| CHECKED | TJD |
| APPROVED | CV |

Ontario Northland

GANNETT FLEMING

IFT DESIGN
NOT FOR CONSTRUCTION

NORTHEAST PASSENGER RAIL SERVICE
ONTARIO, CANADA
REINSTATED STATIONS (PACKAGE 1 & 2)

TEMISKAMING SHORES STATION
CIVIL
GRADING PLAN
SHEET 2 OF 2

| | |
|---|---|
| CONTRACT NUMBER | 13258 |
| SCALE 1:250 | DATE 03/18/2024 |
| DRAWING NUMBER | C08-203 |
| SHEET - | OF - |

PROJECT NUMBER: 073613
ONTARIO NORTHLAND

LEGEND

| | |
|---|---|
| (QL-B) COMB | COMBINATION SEWER |
| (QL-B) STM | STORM SEWER |
| (QL-B) SAN | SANITARY SEWER |
| (QL-B) W | WATER MAIN |
| (QL-B) WSRV | WATER SERVICE |
| (QL-B) W ABND | WATER MAIN (ABANDONED) |
| (QL-B) G | GAS MAIN |
| (QL-B) GSRV | GAS SERVICE |
| (QL-B) G ABND | GAS MAIN (ABANDONED) |
| (QL-B) HONI | HYDRO ONE |
| (QL-B) H | HYDRO |
| (QL-B) SL | STREET LIGHTING |
| (QL-B) TC | TRAFFIC CONTROL |
| (QL-B) TTC | TORONTO TRANSIT COMMISION |
| (QL-B) MTO | MINISTRY OF TRANSPORTATION |
| (QL-B) AP | APTUM TECH |
| (QL-B) B | BELL CANADA |
| (QL-B) B-FO | BELL CANADA FIBRE OPTIC |
| (QL-B) BF | BEANFIELD |
| (QL-B) CO | COGECO |
| (QL-B) GT | GROUP TELECOM |
| (QL-B) GO | GO COMMUNICATIONS |
| (QL-B) METX | METROLINX |
| (QL-B) AS | ALLSTREAM |
| (QL-B) R | ROGERS |
| (QL-B) R-FO | ROGERS FIBRE OPTIC |
| (QL-B) T | TELUS |
| (QL-B) TEL UNKN | UNKNOWN TELECOM |
| (QL-B) VT | VIDEOTRON |
| (QL-B) ZG | ZAYO GROUP |
| (QL-B) 360 | 360 NETWORK |
| (QL-B) CN | CN RAIL COMMUNICATIONS |
| (QL-B) CP | CP RAIL COMMUNICATIONS |
| (QL-B) TCPL | TRANS-CANADIAN PIPELINE |
| (QL-B) SCPL | SUN-CANADIAN PIPELINE |
| (QL-B) STEAM | STEAM PIPE |
| (QL-C) OHU | UNKNOWN AERIAL 1 |

MATCH LINE (SEE THIS SHEET)

(QL-B) SL

CONC LS

MH-001

(QL-C) SAN

200mm SAN (QL-C) SAN

UNABLE TO LOCATE/ACCESS

POST

CTR 06-101

RW-CONCRETE

CONC LS

ASPHALT

MW

EXISTING MAINLINE TRACK

0+100

0+000

(QL-B) SL

(QL-B) SL

RW-CONCRETE

LS

CONC

MW

SW-ASPHALT

ET

HT

18.98

(QL-D) SAN

(QL-D) STM

MH-002

UNABLE TO LOCATE/ACCESS

CONC. STM (SIZE UNKNOWN)

ONTC PROPERTY BOUNDARY LINE

DI-004

CONC. STM (SIZE UNKNOWN)

400mm SAN

450mm Ø CONC. SAN

MH-003

370mm SAN

450mm Ø CONC. SAN

IDNS

CLF

JAFFRAY STREET

150mm WATER MAIN

(QL-C) OHU

CTR

BELL

GV

W

ET

HT

TP

MANHOLE

ADJUSTMENT

IB(SC)

KM 300mm Ø CORR. STEEL STM

100mm WATER SERVICE

(QL-D) GSRV

(QL-B) SL

(QL-D) W

(QL-D) W 100mm WATER SERVICE

ET

O PO

O HP

O 4-AN

O 4-LS

O 4-TEL

O POST_WO

O 193.26

ZAYO

MATCH LINE (SEE THIS SHEET)

COCHRANE
TIMMINS (PORCUPINE)
MATHESON
KIRKLAND LAKE (SWASTIKA)
ENGLEHART
TEMISKAMING SHORES (NEW LISKEARD)
TEMAGAMI
NORTH BAY
SOUTH RIVER
HUNTSVILLE
BRACEBRIDGE
GRAVENHURST
WASHAGO
ORMLEY
LANGSTAFF
UNION
LAKE NIPISSING
LAKE HURON
LAKE ONTARIO

KEYPLAN
N.T.S.

5m 0 5 10 15
1:250

IFT DESIGN
NOT FOR CONSTRUCTION

| NO. | DATE | MODIFICATION | DRAWN | CHKD. | APPRVD. |
|---|---|---|---|---|---|
| | | | | | |
| 1 | 05/17/2024 | ADDENDUM NO. 1 | BD | TJD | KC |

REVISIONS

DESIGNED N/A
DRAWN BD
CHECKED TJD
APPROVED CV

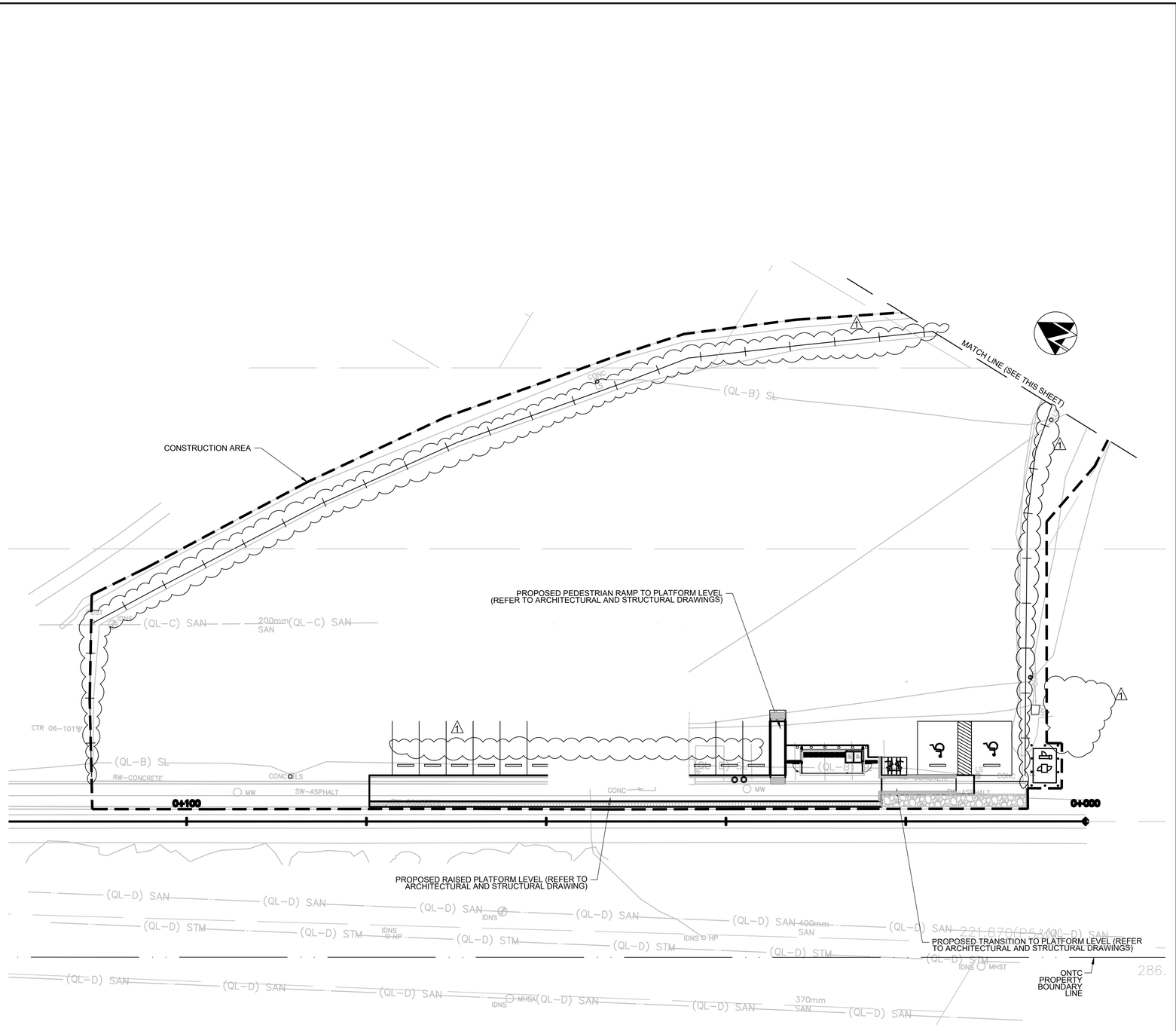
Ontario Northland
GANNETT FLEMING

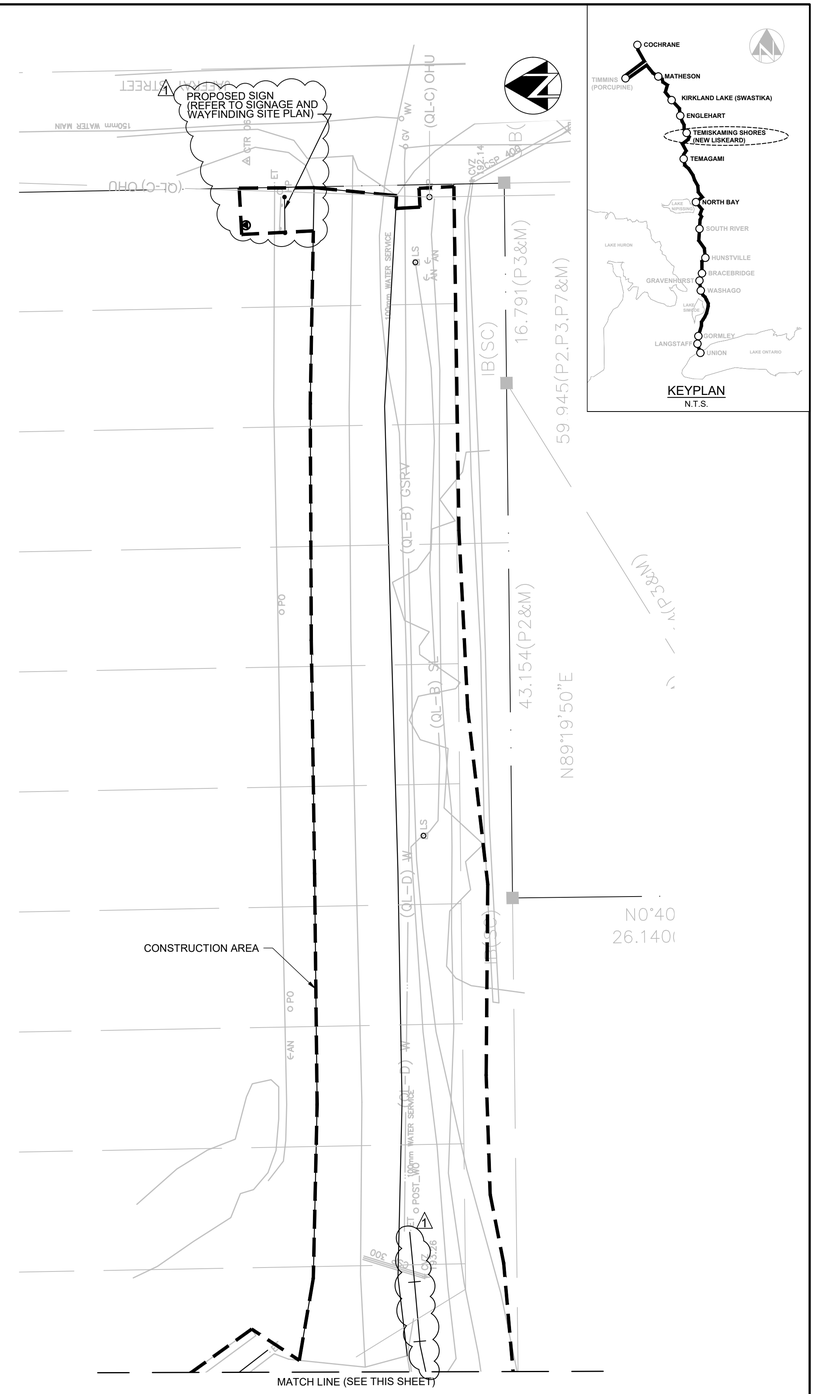
NORTHEAST PASSENGER RAIL SERVICE
ONTARIO, CANADA
REINSTATED STATIONS (PACKAGE 1 & 2)
TEMISKAMING SHORES STATION
CIVIL
EXISTING UTILITY COMPOSITE PLAN

CONTRACT NUMBER 13258
SCALE 1:250
DATE 03/18/2024
DRAWING NUMBER C08-204
SHEET 23 OF 173

FILE NAME: C:\Users\bdesardorff\DC\ACCDocs\GANNETT FLEMING INC\073613-ONTC-NorthlanderPassengerRail\Project Files\Design\CIVIL\Wrks\8_Temi\Sheets\08_204_UTIL_EX.dwg
CREATED: 2024-05-17
MODIFIED: 2024-05-17 15:47

ONTARIO NORTHLAND PROJECT NUMBER: 073613







KEYPLAN
N.T.S.

IFT DESIGN
NOT FOR CONSTRUCTION

| NO. | DATE | MODIFICATION | DRAWN | CHKD. | APPRVD. |
|---|---|---|---|---|---|
| | | | | | |

REVISIONS

| NO. | DATE | MODIFICATION | DRAWN | CHKD. | APPRVD. |
|---|---|---|---|---|---|
| 0 | 05/17/2024 | ADDENDUM NO. 1 | BD | TJD | KC |

REVISIONS

| | |
|---|---|
| DESIGNED | KH |
| DRAWN | KH |
| CHECKED | TJD |
| APPROVED | CV |

Ontario Northland

GANNETT FLEMING

NORTHEAST PASSENGER RAIL SERVICE
ONTARIO, CANADA
REINSTATED STATIONS (PACKAGE 1 & 2)
TEMISKAMING SHORES STATION
CIVIL
CONSTRUCTION AREA

| | |
|---|---|
| CONTRACT NUMBER | 13258 |
| SCALE 1:250 | DATE 03/18/2024 |
| DRAWING NUMBER | C08-205 |
| SHEET 24 | OF 173 |

FILE NAME: C:\Users\bdeardorff\DC\ACCDocs\GANNETT FLEMING INC\073613-ONTC-NorthlanderPassengerRail\Project Files\Design\CIVIL\Wrkg\8_Term\Sheets\08_205_STAGE.dwg
CREATED: 2024-05-16
MODIFIED: 2024-05-17 15:46

FILE NAME: C:\Users\bdeardorff\DC\ACCDocs\GANNETT FLEMING INC\073613-ONTC-NorthlanderPassengerRail\Project Files\Design\CIVIL\Wrkg\9_Engr\Sheets\09_101_DEMO.dwg
CREATED: 2023-09-21
MODIFIED: 2024-05-17 15:38
PROJECT NUMBER: 073613
ONTARIO NORTHLAND

LEGEND

- REMOVAL OF ASPHALT (FULL DEPTH)
- PARTIAL DEPTH ASPHALT REMOVAL (MILL 50mm)
- REMOVAL OF CONCRETE
- REMOVAL OF VEGETATION
- REMOVAL OF UNIT PAVING
- REMOVAL OF GRAVEL / BALLAST
- LINEAR REMOVAL
- OBJECT REMOVAL
- BUILDING DEMOLITION




KEYPLAN
N.T.S.

PROTECT EXISTING COMMUNICATION LINE

EXISTING PLATFORM

EXISTING MAINLINE TRACK

0+100

0+200

PROTECT GENERATOR AND CONCRETE BASE

PROTECT HYDRO TRANSFORMER

PROTECT EXISTING STREET LIGHTING

PROTECT EXISTING ELECTRICAL LINE

PROTECT MANHOLE

PROTECT EXISTING COMMUNICATION LINE

PROTECT THE 701 STEAM ENGINE, ASSOCIATED SIGNS, AND CANOPY

EXISTING STATION BUILDING

MAINTAIN ACCESS TO MAIN OFFICE ENTRANCE

1 REMOVE EXISTING ONTC SIGN AND LOGO, PATCH HOLES TO MATCH EXISTING. REFER TO SIGNAGE AND WAYFINDING DRAWINGS FOR NEW SIGN.

ONTC PROPERTY BOUNDARY LINE (TYP.)

RAILROAD STREET

THIRD AVENUE

THIRD STREET

2-STORY BRICK RAILWAY STATION (ONTARIO NORTHLAND TRAIN STATION)

TRAIN SHELTER

**NOTES:**

1. REFER TO GRADING PLAN FOR NORTHINGS AND EASTINGS ASSOCIATED WITH PLATFORM AND ASSOCIATED WORK.

5m 0 5 10 15
1:250

IFT DESIGN
NOT FOR CONSTRUCTION

| NO. | DATE | MODIFICATION | DRAWN | CHKD. | APPRVD. |
|---|---|---|---|---|---|
| | | | | | |
| 1 | 05/17/2024 | ADDENDUM NO. 1 | BD | TJD | KC |

REVISIONS

DESIGNED BD
DRAWN BD
CHECKED TJD
APPROVED CV

Ontario Northland

GANNETT FLEMING

NORTHEAST PASSENGER RAIL SERVICE
ONTARIO, CANADA
REINSTATED STATIONS (PACKAGE 1 & 2)
ENGLEHART STATION
CIVIL
DEMOLITION PLAN

CONTRACT NUMBER 13258
SCALE 1:250
DATE 03/18/2024
DRAWING NUMBER C09-101
SHEET 25 OF 173

LEGEND

- SEEDING/SODDING
- CONCRETE
- ASPHALT PAVING (FULL DEPTH)
- ASPHALT PAVING (PARTIAL DEPTH)
- GRAVEL / BALLAST
- UNIT PAVERS

| Point Table | | |
|---|---|---|
| Point # | Northing | Easting |
| P1 | 5299210.7082 | 389205.9523 |

KEYPLAN
N.T.S.

COCHRANE
TIMMINS (PORCUPINE)
MATHESON
KIRKLAND LAKE (SWASTIKA)
ENGLEHART
TEMISKAMING SHORES (NEW LISKEARD)
TEMAGAMI
NORTH BAY
SOUTH RIVER
HUNTSVILLE
GRACEBRIDGE
GRAVENHURST
WASHAGO
ORMLEY
LANGSTAFF
UNION
LAKE ONTARIO
LAKE HURON
LAKE NIPISSING
LAKE SIMCOE

REPLACE BELL UTILITY CHAMBER LID (REFER TO STRUCTURAL DRAWING)
PROPOSED RAISED PLATFORM (REFER TO ARCHITECTURAL AND STRUCTURAL DRAWING)
STA: 0+133.60
STA: 0+138.00
STA: 0+195.00
STA: 0+206.76
4.40 m
10.00 m
10.00 m
57.00 m
11.76 m
EXISTING MAINLINE TRACK
0+100
0+200
0+238
4.00 m
MATCH EXISTING PLATFORM ELEVATIONS AND WIDTH
MATCH EXISTING PLATFORM ELEVATIONS AND WIDTH
PROPOSED TRANSITION TO PLATFORM LEVEL (REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS)
PROPOSED TRANSITION TO PLATFORM LEVEL (REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS)
MATCH EXISTING PLATFORM EDGE ELEVATIONS
RESTORE SURFACE AS REQUIRED FOR ELECTRICAL WORK
6.00 m (TYP.)
6.00 m (TYP.)
1.50 m
4.50 m (TYP.)
3.00 m (TYP.)
TWO BIKE POSTS
BACKLIT TOTEM POLE
P1
INSTALL PRECAST CONCRETE CURB OPSD 603.020 (TYP)
PROPOSED ACCESSIBILITY PARKING SPACE COMPLETE WITH 4.5m WIDE CURB CUT (OPSD 600.110) AND PAVEMENT MARKING AS PER OTM BOOK 11 FIGURE 48 DISABLED ACCESS SYMBOL
ONTC PROPERTY BOUNDARY LINE (TYP.)
EXISTING STATION BUILDING
2-STORY BRICK RAILWAY STATION
GENERATOR
HYDRO TRANSFORMER
TRAIN SHELTER
RAILROAD STREET
PROPOSED SIGN (REFER TO SIGNAGE AND WAYFINDING SITE PLAN)
THIRD AVENUE
THIRD STREET

| ENGLEHART STATION PAVEMENT DESIGN TABLE | | | | |
|---|---|---|---|---|
| FEATURE | ASPHALT | CONCRETE | GRAN "A" | GRAN "B" |
| STATION PLATFORM | REFER TO ARCHITECTURAL/STRUCTURAL DRAWINGS | | | |
| PARKING LOT (FULL DEPTH) | 40mm HL 3<br>40mm HL 8 | - | 150mm | 300mm |
| PARKING LOT (GRAVEL) | REMOVE 100mm EXISTING GRAVEL AND REPLACE UP TO 300mm NEW GRAVEL | | | |

FOR CONCRETE SLAB DETAILS AT PLATFORM SHELTERS, AND TRANSITIONS, REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS

**NOTES:**

1. DRAWING TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, AND COMMUNICATIONS DRAWINGS.
2. CONFIRM PLATFORM EDGE IS OFFSET 1632mm FROM THE TRACK CENTRELINE AND THE TOP PLATFORM ALONG THE TRACK IS AT 127mm ABOVE TOP OF RAIL.
3. PROVIDE SEEDING/SODDING ALONG THE PERIMETER OF THE RECONSTRUCTED PLATFORM TO REPLACE ANY LANDSCAPE DISTURBED BY CONSTRUCTION ACTIVITIES.
4. REFER TO DRAWING NO. C00-001 FOR GENERAL NOTES.
5. VEHICLES TO PARK ON GRAVEL. PARKING STALL LINES ARE PROVIDED FOR PURPOSES OF INSTALLING PRECAST CONCRETE CURB.

**SURVEY NOTES:**

1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.
2. THE DRAWING IS REFERENCED TO NAD83 CSRS(2010) / CGVD 2013 / MTM 12
3. SURVEY HAS BEEN COMPILED USING AIRBORNE, STATIC LIDAR & CONVENTIONAL DATA.
   - 3.1. AIRBORNE DATA COLLECTED MAY 2023.
   - 3.2. STATIC DATA FOR WAS COLLECTED JULY 2023.
   - 3.3. CONVENTIONAL DATA COLLECTED IN JULY 2023.
4. SUE DATA WAS COLLECTED ON JUNE 9TH 2023.
5. PROJECT CONTROLS:
   - 5.1. 05-101 5299306.653N 389062.724E 206.186 ELEV.
   - 5.2. 05-102 5299208.180N 389242.552E 207.129 ELEV.
   - 5.3. 05-103 5299098.189N 389361.298E 207.642 ELEV.

1:250 5m 0 5 10 15

IFT DESIGN
NOT FOR CONSTRUCTION

| NO. | DATE | MODIFICATION | DRAWN | CHKD. | APPRVD. |
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REVISIONS

| NO. | DATE | MODIFICATION | DRAWN | CHKD. | APPRVD. |
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| 1 | 05/17/2024 | ADDENDUM NO. 1 | BD | TJD | KC |

REVISIONS

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| DRAWN | BD |
| CHECKED | TJD |
| APPROVED | CV |

Ontario Northland
GANNETT FLEMING

NORTHEAST PASSENGER RAIL SERVICE
ONTARIO, CANADA
REINSTATED STATIONS (PACKAGE 1 & 2)
ENGLEHART STATION
CIVIL
GENERAL SITE PLAN

| | |
|---|---|
| CONTRACT NUMBER | 13258 |
| SCALE 1:250 | DATE 03/18/2024 |
| DRAWING NUMBER | C09-201 |
| SHEET - | OF - |

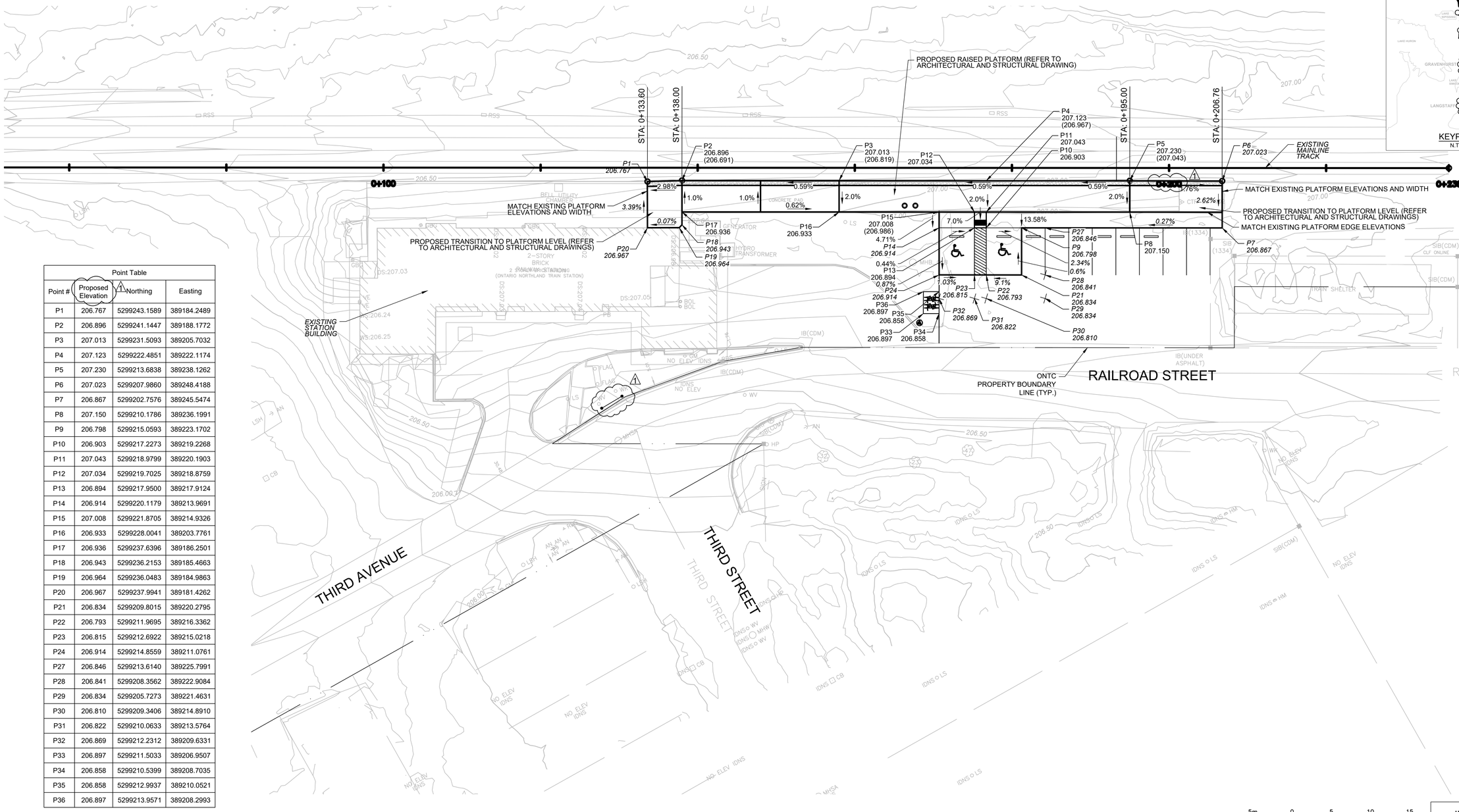
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CREATED: 2023-09-21
MODIFIED: 2024-05-17 15:37
PROJECT NUMBER: 073613
ONTARIO NORTHLAND

PROJECT NUMBER: 073613

ONTARIO NORTHLAND

LEGEND

| | |
|---|---|
| XXX.XXX | PROPOSED ELEVATION |
| (XXX.XXX) | BOTTOM ELEVATION |
| *XXX.XXX* | EXISTING ELEVATION |




Point Table

| Point # | Proposed Elevation | Northing | Easting |
|---|---|---|---|
| P1 | 206.767 | 5299243.1589 | 389184.2489 |
| P2 | 206.896 | 5299241.1447 | 389188.1772 |
| P3 | 207.013 | 5299231.5093 | 389205.7032 |
| P4 | 207.123 | 5299222.4851 | 389222.1174 |
| P5 | 207.230 | 5299213.6838 | 389238.1262 |
| P6 | 207.023 | 5299207.9860 | 389248.4188 |
| P7 | 206.867 | 5299202.7576 | 389245.5474 |
| P8 | 207.150 | 5299210.1786 | 389236.1991 |
| P9 | 206.798 | 5299215.0593 | 389223.1702 |
| P10 | 206.903 | 5299217.2273 | 389219.2268 |
| P11 | 207.043 | 5299218.9799 | 389220.1903 |
| P12 | 207.034 | 5299219.7025 | 389218.8759 |
| P13 | 206.894 | 5299217.9500 | 389217.9124 |
| P14 | 206.914 | 5299220.1179 | 389213.9691 |
| P15 | 207.008 | 5299221.8705 | 389214.9326 |
| P16 | 206.933 | 5299228.0041 | 389203.7761 |
| P17 | 206.936 | 5299237.6396 | 389186.2501 |
| P18 | 206.943 | 5299236.2153 | 389185.4663 |
| P19 | 206.964 | 5299236.0483 | 389184.9863 |
| P20 | 206.967 | 5299237.9941 | 389181.4262 |
| P21 | 206.834 | 5299209.8015 | 389220.2795 |
| P22 | 206.793 | 5299211.9695 | 389216.3362 |
| P23 | 206.815 | 5299212.6922 | 389215.0218 |
| P24 | 206.914 | 5299214.8559 | 389211.0761 |
| P27 | 206.846 | 5299213.6140 | 389225.7991 |
| P28 | 206.841 | 5299208.3562 | 389222.9084 |
| P29 | 206.834 | 5299205.7273 | 389221.4631 |
| P30 | 206.810 | 5299209.3406 | 389214.8910 |
| P31 | 206.822 | 5299210.0633 | 389213.5764 |
| P32 | 206.869 | 5299212.2312 | 389209.6331 |
| P33 | 206.897 | 5299211.5033 | 389206.9507 |
| P34 | 206.858 | 5299210.5399 | 389208.7035 |
| P35 | 206.858 | 5299212.9937 | 389210.0521 |
| P36 | 206.897 | 5299213.9571 | 389208.2993 |

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1:250

IFT DESIGN
NOT FOR CONSTRUCTION

| NO. | DATE | MODIFICATION | DRAWN | CHKD. | APPRVD. |
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REVISIONS

| NO. | DATE | MODIFICATION | DRAWN | CHKD. | APPRVD. |
|---|---|---|---|---|---|
| 1 | 05/17/2024 | ADDENDUM NO. 1 | BD | TJD | KC |

REVISIONS

DESIGNED BD
DRAWN BD
CHECKED TJD
APPROVED CV

Ontario Northland

GANNETT FLEMING

NORTHEAST PASSENGER RAIL SERVICE
ONTARIO, CANADA
REINSTATED STATIONS (PACKAGE 1 & 2)

ENGLEHART STATION
CIVIL
GRADING PLAN

CONTRACT NUMBER 13258
SCALE 1:250
DATE 03/18/2024
DRAWING NUMBER C09-202
SHEET -
OF -

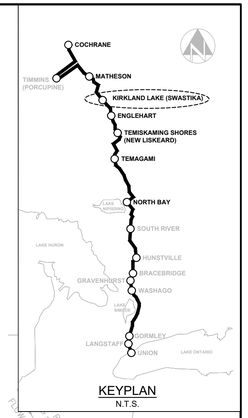
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CREATED: 2023-10-18
MODIFIED: 2024-05-17 15:37

PROJECT NUMBER: 073613

ONTARIO NORTHLAND

## LEGEND

- REMOVAL OF ASPHALT (FULL DEPTH)
- PARTIAL DEPTH ASPHALT REMOVAL (MILL 50mm)
- REMOVAL OF CONCRETE
- REMOVAL OF VEGETATION
- REMOVAL OF UNIT PAVING
- REMOVAL OF GRAVEL / BALLAST
- LINEAR REMOVAL
- OBJECT REMOVAL
- BUILDING DEMOLITION




KEYPLAN
N.T.S.

ONTC TO RELOCATE EXISTING TRACK CROSSING

REMOVE EXISTING METAL CURB AT EXISTING PLATFORM PERIMETER

REMOVE MONITORING WELL DURING SLAB CONSTRUCTION

*EXISTING MAINLINE TRACK*

0+000

0+100

ONTC TO CLEAR PRIOR TO CONTRACTOR USE

EXISTING SLAB TO REMAIN

PROTECT EXISTING CONCRETE RETAINING WALL

PROTECT HYDRO POLE AND ANCHORS

REMOVE CONCRETE WALL LOCALLY AS NEEDED FOR NEW PLATFORM SLAB. REFER TO STRUCTURAL DRAWINGS FOR DEPTH OF REMOVAL

PROTECT EXISTING OVERHEAD LINES

PROTECT EXISTING ANCHOR

PROTECT EXISTING SIDEWALK

PROTECT EXISTING SANITARY SEWER LINE

PROTECT EXISTING GUIDERAIL

PROTECT EXISTING STORM SEWER

PROTECT EXISTING GAS LINE

PROTECT EXISTING OVERHEAD LINES

PROTECT HYDRO POLE AND ANCHORS

ONTC PROPERTY BOUNDARY LINE

CAMERON STREET

BOISVERT AVENUE

HAYES STREET

**NOTES:**

1. REFER TO GRADING PLAN FOR NORTHINGS AND EASTINGS ASSOCIATED WITH PLATFORM AND ASSOCIATED WORK.

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| NO. | DATE | MODIFICATION | DRAWN | CHKD. | APPRVD. |
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REVISIONS

| NO. | DATE | MODIFICATION | DRAWN | CHKD. | APPRVD. |
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| 0 | 05/17/2024 | ADDENDUM NO. 1 | BD | TJD | KC |

REVISIONS

DESIGNED BD
DRAWN BD
CHECKED TJD
APPROVED CV

Ontario Northland

GANNETT FLEMING

NORTHEAST PASSENGER RAIL SERVICE
ONTARIO, CANADA
REINSTATED STATIONS (PACKAGE 1 & 2)

KIRKLAND LAKE - SWASTIKA STATION
CIVIL
DEMOLITION PLAN

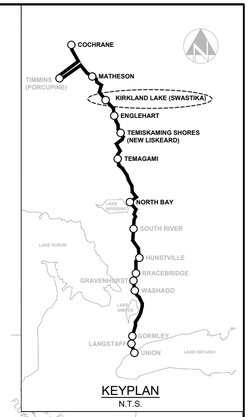
CONTRACT NUMBER 13258
SCALE 1:250
DATE 03/18/2024
DRAWING NUMBER C10-101
SHEET 30 OF 173

FILE NAME: C:\Users\bdeardorff\DC\ACCDocs\GANNETT FLEMING INC\073613-ONTC-NorthlanderPassengerRail\Project Files\Design\CIVIL\Wrkg\10_Kirk\Sheets\10_101_DEMO.dwg
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MODIFIED: 2024-05-17 15:35

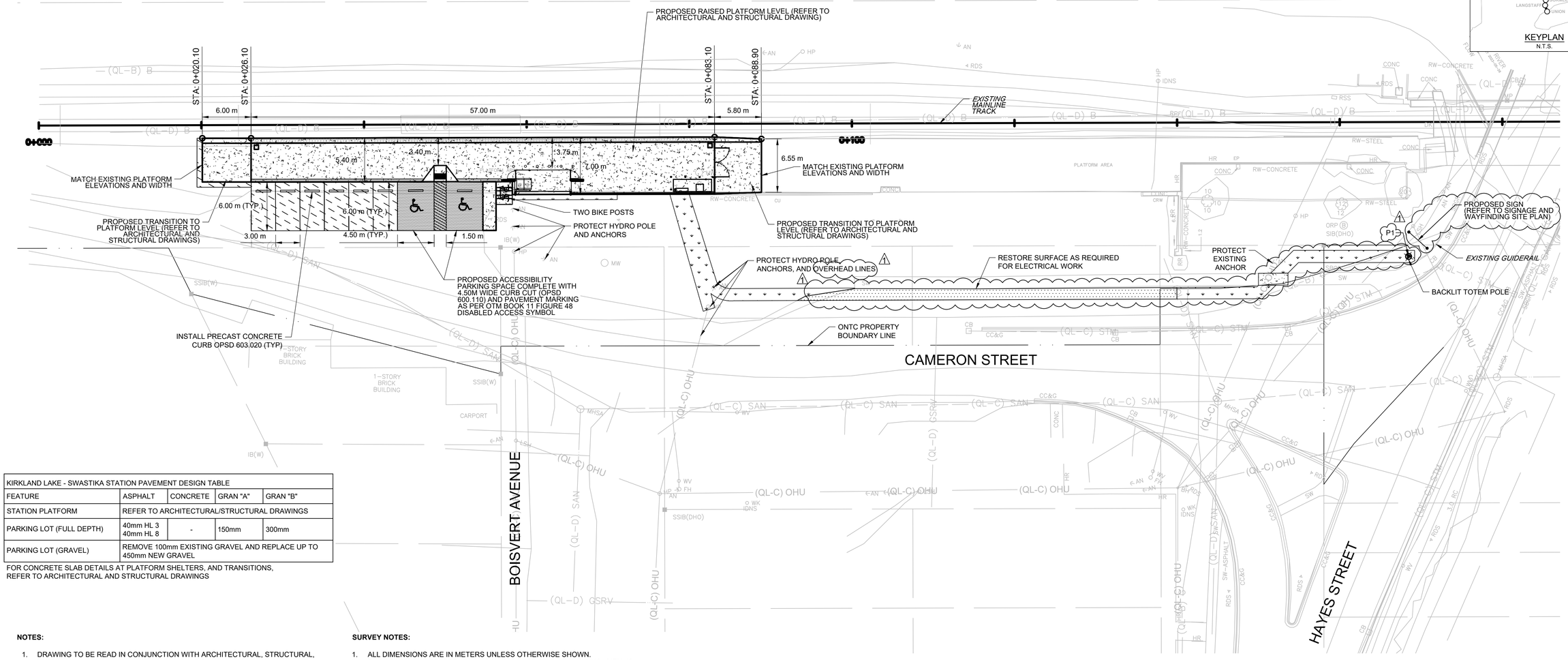
LEGEND

- SEEDING/SODDING
- CONCRETE
- ASPHALT PAVING (FULL DEPTH)
- ASPHALT PAVING (PARTIAL DEPTH)
- GRAVEL / BALLAST
- UNIT PAVERS

| Point Table | | |
|---|---|---|
| Point # | Northing | Easting |
| P1 | 5330298.3682 | 371524.8514 |




KEYPLAN
N.T.S.




| KIRKLAND LAKE - SWASTIKA STATION PAVEMENT DESIGN TABLE | | | | |
|---|---|---|---|---|
| FEATURE | ASPHALT | CONCRETE | GRAN "A" | GRAN "B" |
| STATION PLATFORM | REFER TO ARCHITECTURAL/STRUCTURAL DRAWINGS | | | |
| PARKING LOT (FULL DEPTH) | 40mm HL 3<br>40mm HL 8 | - | 150mm | 300mm |
| PARKING LOT (GRAVEL) | REMOVE 100mm EXISTING GRAVEL AND REPLACE UP TO 450mm NEW GRAVEL | | | |

FOR CONCRETE SLAB DETAILS AT PLATFORM SHELTERS, AND TRANSITIONS, REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS

**NOTES:**

1. DRAWING TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, STRUCTURAL, ELECTRICAL, COMMUNICATIONS AND SIGNAGE AND WAYFINDING DRAWINGS.
2. CONFIRM PLATFORM EDGE IS OFFSET 1632mm FROM THE TRACK CENTRELINE AND THE TOP PLATFORM ALONG THE TRACK IS AT 127mm ABOVE TOP OF RAIL.
3. PROVIDE SEEDING/SODDING ALONG THE PERIMETER OF THE RECONSTRUCTED PLATFORM TO REPLACE ANY LANDSCAPE DISTURBED BY CONSTRUCTION ACTIVITIES.
4. REFER TO DRAWING NO. C00-001 FOR GENERAL NOTES.
5. VEHICLES TO PARK ON GRAVEL. PARKING STALL LINES ARE PROVIDED FOR PURPOSES OF INSTALLING PRECAST CONCRETE CURB.

**SURVEY NOTES:**

1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.
2. THE DRAWING IS REFERENCED TO NAD83 CSRS(2010) / CGVD 2013 / MTM 12
3. SURVEY HAS BEEN COMPILED USING AIRBORNE, STATIC LIDAR & CONVENTIONAL DATA.
   - 3.1. AIRBORNE DATA COLLECTED MAY 2023.
   - 3.2. STATIC DATA FOR WAS COLLECTED MAY 2023.
   - 3.3. CONVENTIONAL DATA COLLECTED IN MAY 2023.
4. SUE DATA WAS COLLECTED ON JULY 10TH 2023.
5. PROJECT CONTROLS:
   - 5.1. 04-101 5330288.933N 371432.186E 305.934 ELEV.
   - 5.2. 04-102 5330294.404N 371541.046E 301.608 ELEV.
   - 5.3. 04-103 5330202.492N 371476.211E 307.276 ELEV.

1:250 5m 0 5 10 15

IFT DESIGN
NOT FOR CONSTRUCTION

| NO. | DATE | MODIFICATION | DRAWN | CHKD. | APPRVD. |
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| 1 | 05/17/2024 | ADDENDUM NO. 1 | BD | TJD | KC |

REVISIONS

DESIGNED BD
DRAWN BD
CHECKED TJD
APPROVED CV

Ontario Northland
GANNETT FLEMING

NORTHEAST PASSENGER RAIL SERVICE
ONTARIO, CANADA
REINSTATED STATIONS (PACKAGE 1 & 2)
KIRKLAND LAKE - SWASTIKA STATION
CIVIL
GENERAL SITE PLAN

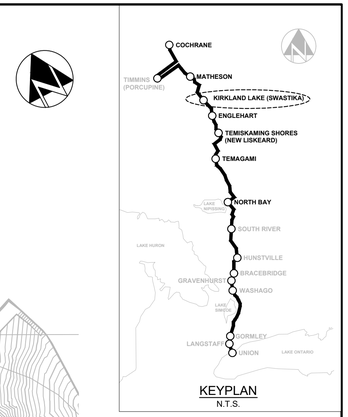
CONTRACT NUMBER 13258
SCALE 1:250
DATE 03/18/2024
DRAWING NUMBER C10-201
SHEET 31 OF 173

FILE NAME: C:\Users\bdeardorff\DC\ACCDocs\GANNETT FLEMING INC\073613-ONTC-NorthlanderPassengerRail\Project Files\Design\CIVIL\Wrkg\10_Kirk\Sheets\10_201_PLAN.dwg
CREATED: 2023-09-21
MODIFIED: 2024-05-17 15:35

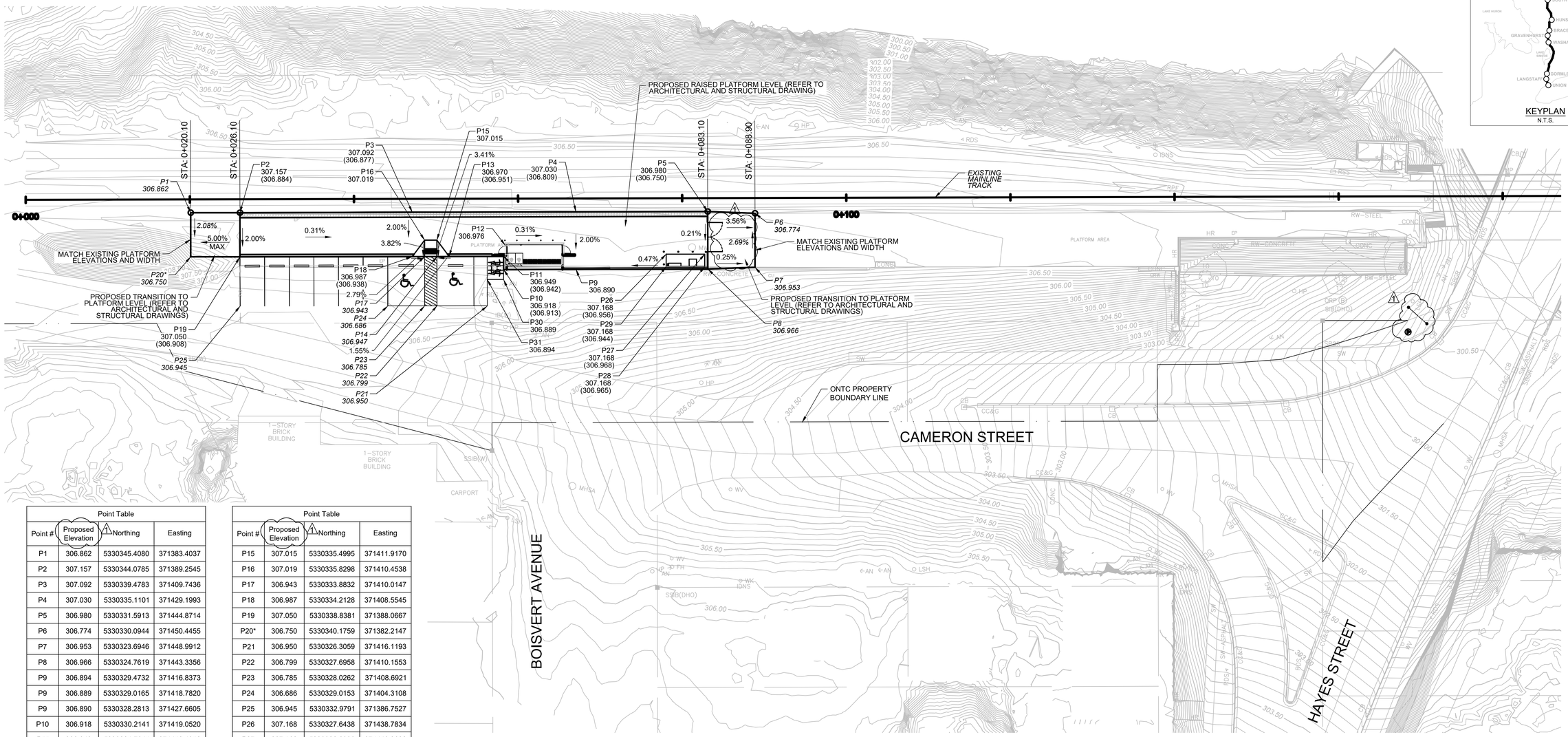
PROJECT NUMBER: 073613
ONTARIO NORTHLAND

LEGEND

| | |
|---|---|
| XXX.XXX | PROPOSED ELEVATION |
| (XXX.XXX) | BOTTOM ELEVATION |
| *XXX.XXX* | EXISTING ELEVATION |




KEYPLAN
N.T.S.




Point Table

| Point # | Proposed Elevation (1) | Northing | Easting |
|---|---|---|---|
| P1 | 306.862 | 5330345.4080 | 371383.4037 |
| P2 | 307.157 | 5330344.0785 | 371389.2545 |
| P3 | 307.092 | 5330339.4783 | 371409.7436 |
| P4 | 307.030 | 5330335.1101 | 371429.1993 |
| P5 | 306.980 | 5330331.5913 | 371444.8714 |
| P6 | 306.774 | 5330330.0944 | 371450.4455 |
| P7 | 306.953 | 5330323.6946 | 371448.9912 |
| P8 | 306.966 | 5330324.7619 | 371443.3356 |
| P9 | 306.894 | 5330329.4732 | 371416.8373 |
| P9 | 306.889 | 5330329.0165 | 371418.7820 |
| P9 | 306.890 | 5330328.2813 | 371427.6605 |
| P10 | 306.918 | 5330330.2141 | 371419.0520 |
| P11 | 306.949 | 5330331.7641 | 371419.4012 |
| P12 | 306.976 | 5330333.0609 | 371419.8983 |
| P13 | 306.970 | 5330333.2233 | 371412.9375 |
| P14 | 306.947 | 5330333.5528 | 371411.4779 |

Point Table

| Point # | Proposed Elevation (1) | Northing | Easting |
|---|---|---|---|
| P15 | 307.015 | 5330335.4995 | 371411.9170 |
| P16 | 307.019 | 5330335.8298 | 371410.4538 |
| P17 | 306.943 | 5330333.8832 | 371410.0147 |
| P18 | 306.987 | 5330334.2128 | 371408.5545 |
| P19 | 307.050 | 5330338.8381 | 371388.0667 |
| P20* | 306.750 | 5330340.1759 | 371382.2147 |
| P21 | 306.950 | 5330326.3059 | 371416.1193 |
| P22 | 306.799 | 5330327.6958 | 371410.1553 |
| P23 | 306.785 | 5330328.0262 | 371408.6921 |
| P24 | 306.686 | 5330329.0153 | 371404.3108 |
| P25 | 306.945 | 5330332.9791 | 371386.7527 |
| P26 | 307.168 | 5330327.6438 | 371438.7834 |
| P27 | 307.168 | 5330326.6096 | 371443.3682 |
| P28 | 307.168 | 5330325.1463 | 371443.0381 |
| P29 | 307.168 | 5330326.1805 | 371438.4533 |

*ASSUMED EXISTING ELEVATION AFTER ONTC CLEARING ROCKPILE

5m 0 5 10 15
1:250

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| NO. | DATE | MODIFICATION | DRAWN | CHKD. | APPRVD. |
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REVISIONS

| NO. | DATE | ADDENDUM NO. 1 | BD | TJD | KC |
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| 1 | 05/17/2024 | | | | |

REVISIONS

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| DESIGNED | UG |
| DRAWN | UG |
| CHECKED | TJD |
| APPROVED | CV |

Ontario Northland
GANNETT FLEMING

NORTHEAST PASSENGER RAIL SERVICE
ONTARIO, CANADA
REINSTATED STATIONS (PACKAGE 1 & 2)
KIRKLAND LAKE - SWASTIKA STATION
CIVIL
GRADING PLAN

| | |
|---|---|
| CONTRACT NUMBER | 13258 |
| SCALE | 1:250 |
| DATE | 03/18/2024 |
| DRAWING NUMBER | C10-202 |
| SHEET | - |
| OF | - |

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CREATED: 2023-10-18
MODIFIED: 2024-05-21 09:30

PROJECT NUMBER: 073613
ONTARIO NORTHLAND

FILE NAME: C:\Users\bdeardorff\DC\ACCDocs\GANNETT FLEMING INC\073613-ONTC-NorthlanderPassengerRail\Project Files\Design\Civil\Wrkg\10_Kirk\Sheets\10_203_UTIL_EX.dwg
CREATED: 2023-09-22
MODIFIED: 2024-05-17 15:35

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KEYPLAN
N.T.S.

COCHRANE
TIMMINS (PORCUPINE)
MATHESON
KIRKLAND LAKE (SWASTIKA)
ENGLEHART
TEMISKAMING SHORES (NEW LISKEARD)
TEMAGAMI
NORTH BAY
SOUTH RIVER
HUNTSVILLE
GRACEBRIDGE
WASHAGO
ORMSBY
LANGSTAFF
UNION
LAKE ONTARIO
LAKE HURON
GEORGIAN BAY
GRAVENHURST

EXISTING MAINLINE TRACK
0+000
0+100

CAMERON STREET
CAMERON AVENUE
BOISVERT AVENUE
HAYES STREET

CB-001
CB-002
CB-003
CB-004
CB-005
CB-006
CB-007
CB-008
CB-009
CB-011
CB-014
MH-012
MH-006
MH-007
MH-008
MH-009
MH-010
MH-011

300mm Ø CONC. STM
250mm Ø CONC. SAN
200mm Ø CONC. SAN
200mm Ø PVC SAN
150mm Ø PVC SAN
600mm Ø CONC. STM
450mm Ø CONC. STM

1-STORY BRICK BUILDING
CARPORT
PLATFORM AREA
RW-CONCRETE
RW-STEEL
SIB(DHO)
SSIB(W)

LEGEND

| | |
|---|---|
| (QL-B) COMB | COMBINATION SEWER |
| (QL-B) STM | STORM SEWER |
| (QL-B) SAN | SANITARY SEWER |
| (QL-B) W | WATER MAIN |
| (QL-B) WSRV | WATER SERVICE |
| (QL-B) W ABND | WATER MAIN (ABANDONED) |
| (QL-B) G | GAS MAIN |
| (QL-B) GSRV | GAS SERVICE |
| (QL-B) G ABND | GAS MAIN (ABANDONED) |
| (QL-B) HONI | HYDRO ONE |
| (QL-B) H | HYDRO |
| (QL-B) SL | STREET LIGHTING |
| (QL-B) TC | TRAFFIC CONTROL |
| (QL-B) TTC | TORONTO TRANSIT COMMISION |
| (QL-B) MTO | MINISTRY OF TRANSPORTATION |
| (QL-B) AP | APTUM TECH |
| (QL-B) B | BELL CANADA |
| (QL-B) B-FO | BELL CANADA FIBRE OPTIC |
| (QL-B) BF | BEANFIELD |
| (QL-B) CO | COGECO |
| (QL-B) GT | GROUP TELECOM |
| (QL-B) GO | GO COMMUNICATIONS |
| (QL-B) METX | METROLINX |
| (QL-B) AS | ALLSTREAM |
| (QL-B) R | ROGERS |
| (QL-B) R-FO | ROGERS FIBRE OPTIC |
| (QL-B) T | TELUS |
| (QL-B) TEL UNKN | UNKNOWN TELECOM |
| (QL-B) VT | VIDEOTRON |
| (QL-B) ZG | ZAYO GROUP |
| (QL-B) 360 | 360 NETWORK |
| (QL-B) CN | CN RAIL COMMUNICATIONS |
| (QL-B) CP | CP RAIL COMMUNICATIONS |
| (QL-B) TCPL | TRANS-CANADIAN PIPELINE |
| (QL-B) SCPL | SUN-CANADIAN PIPELINE |
| (QL-B) STEAM | STEAM PIPE |
| (QL-C) OHU | UNKNOWN AERIAL |

1:250 5m 0 5 10 15

IFT DESIGN
NOT FOR CONSTRUCTION

| NO. | DATE | MODIFICATION | DRAWN | CHKD. | APPRVD. |
|---|---|---|---|---|---|
| 1 | 05/17/2024 | ADDENDUM NO. 1 | BD | TJD | KC |

REVISIONS

DESIGNED N/A
DRAWN BD
CHECKED TJD
APPROVED CV

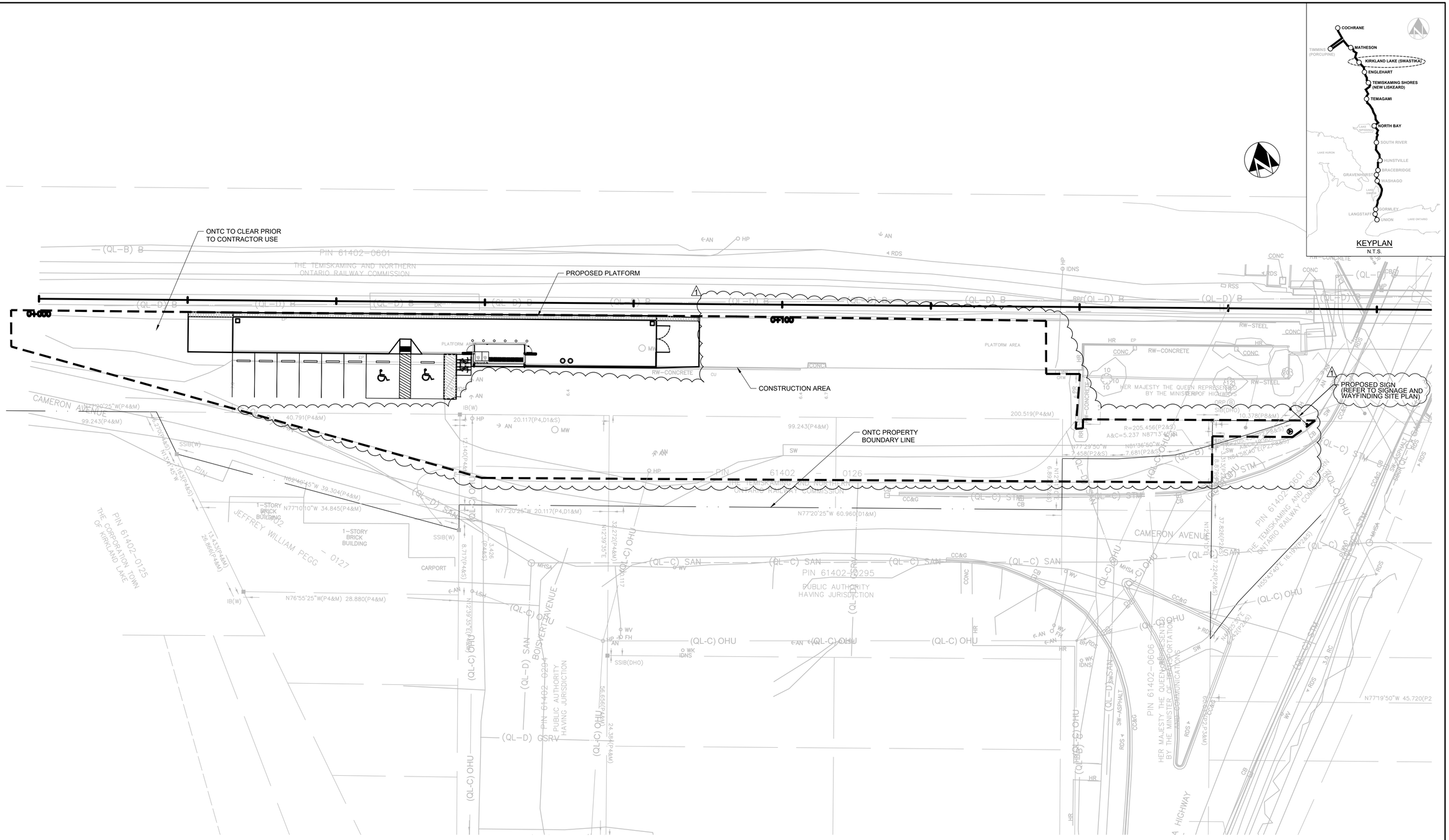
Ontario Northland
GANNETT FLEMING

NORTHEAST PASSENGER RAIL SERVICE
ONTARIO, CANADA
REINSTATED STATIONS (PACKAGE 1 & 2)
KIRKLAND LAKE - SWASTIKA STATION
CIVIL
EXISTING UTILITY COMPOSITE PLAN

CONTRACT NUMBER 13258
SCALE 1:250
DATE 03/18/2024
DRAWING NUMBER C10-203
SHEET 33 OF 173

ONTARIO NORTHLAND PROJECT NUMBER: 073613

FILE NAME: C:\Users\bdeardorff\DC\ACCDocs\GANNETT FLEMING INC\073613-ONTC-NorthlanderPassengerRail\Project Files\Design\CIVIL\Wrkg\10_Kirk\Sheets\10_204_STAGE.dwg
CREATED: 2024-01-26 MODIFIED: 2024-05-17 15:35




IFT DESIGN
NOT FOR CONSTRUCTION

| NO. | DATE | MODIFICATION | DRAWN | CHKD. | APPRVD. |
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REVISIONS

| NO. | DATE | MODIFICATION | DRAWN | CHKD. | APPRVD. |
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| 1 | 05/17/2024 | ADDENDUM NO. 1 | BD | TJD | KC |

REVISIONS

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| DESIGNED | KH |
| DRAWN | KH |
| CHECKED | TJD |
| APPROVED | CV |

Ontario Northland

GANNETT FLEMING

NORTHEAST PASSENGER RAIL SERVICE
ONTARIO, CANADA
REINSTATED STATIONS (PACKAGE 1 & 2)

KIRKLAND LAKE - SWASTIKA STATION
CIVIL
CONSTRUCTION AREA

| | |
|---|---|
| CONTRACT NUMBER | 13258 |
| SCALE 1:250 | DATE 03/18/2024 |
| DRAWING NUMBER | C10-204 |
| SHEET 34 | OF 173 |

PROJECT NUMBER: 073613
ONTARIO NORTHLAND

LEGEND

| | | |
|---|---|---|
| REMOVAL OF ASPHALT (FULL DEPTH) | REMOVAL OF VEGETATION | LINEAR REMOVAL |
| PARTIAL DEPTH ASPHALT REMOVAL (MILL 50mm) | REMOVAL OF UNIT PAVING | OBJECT REMOVAL |
| REMOVAL OF CONCRETE | REMOVAL OF GRAVEL / BALLAST | BUILDING DEMOLITION |

RAILWAY STREET

PROTECT FIRE HYDRANT

PROTECT HYDRO POLE AND EXISTING OVERHEAD LINES

PROTECT SANITARY MANHOLE

CAP WATER SERVICE AT PROPERTY LINE

REMOVE EXISTING CONCRETE STAIRS

EXISTING BUILDING DEMOLITION (REFER TO STRUCTURAL DRAWINGS)

REMOVE CONCRETE CURB

PROTECT HYDRO POLE AND ANCHOR

ABANDON GASMAIN SERVICE TO BUILDING

CAP EXISTING UTILITIES WITHIN BASEMENT. DEMOLISH EXISTING STRUCTURE PER STRUCTURAL DEMOLITION PLAN & SECTION DRAWING, INCLUDING REMOVAL OF BASEMENT WALL TO WITHIN 1200MM OF FINISHED GRADE. PROVIDE ENGINEERED FILL PER GEOTECHNICAL REPORT.

ONTC PROPERTY BOUNDARY LINE (TYP)

PROTECT HYDRO POLE AND EXISTING OVERHEAD LINES

PROTECT LIGHT POLE IN PLACE

REMOVE CONCRETE FOOTING/FOUNDATION

PROTECT EXISTING OVERHEAD LINE

EXISTING STONE TO BE CAREFULLY REMOVED AND HANDED OVER TO ONTC (REFER TO ARCHITECTURAL AND STRUCTURAL DRAWING)

REMOVE EXISTING CONCRETE RAMP

REMOVE RAILROAD TIE

EXISTING MAINLINE TRACK

PROTECT EXISTING COMMUNICATION LINE

0+100

1-STORY STEEL STORE

BWW MONUMENT

**NOTES:**

1. CONTRACTOR TO COORDINATE WITH CONSULTANT THE SALVAGE OF THE ELEMENTS/ITEMS FROM THE EXISTING STATION BUILDING DEEMED TO BE HISTORICALLY SIGNIFICANT BY THE OWNER AND HANDED OVER TO OWNER PRIOR TO DEMOLITION OF THE BUILDING
2. REFER TO GRADING PLAN FOR NORTHINGS AND EASTINGS ASSOCIATED WITH PLATFORM AND ASSOCIATED WORK.

KEYPLAN
N.T.S.

COCHRANE
TIMMINS (PORCUPINE)
MATHESON
KIRKLAND LAKE (SWASTIKA)
ENGLEHART
TEMISKAMING SHORES (NEW LISKEARD)
TEMAGAMI
NORTH BAY
SOUTH RIVER
HUNTSVILLE
BRACEBRIDGE
GRAVENHURST
WASHAGO
ORMSLEY
LANGSTAFF
UNION
LAKE HURON
LAKE ONTARIO

5m 0 5 10 15
1:250

IFT DESIGN
NOT FOR CONSTRUCTION

| NO. | DATE | MODIFICATION | DRAWN | CHKD. | APPRVD. |
|---|---|---|---|---|---|
| | | | | | |
| 1 | 05/17/2024 | ADDENDUM NO. 1 | BD | TJD | KC |

REVISIONS

DESIGNED BD
DRAWN BD
CHECKED TJD
APPROVED CV

Ontario Northland
GANNETT FLEMING

NORTHEAST PASSENGER RAIL SERVICE
ONTARIO, CANADA
REINSTATED STATIONS (PACKAGE 1 & 2)
MATHESON STATION
CIVIL
DEMOLITION PLAN

CONTRACT NUMBER 13258
SCALE 1:250
DATE 03/18/2024
DRAWING NUMBER C11-101
SHEET 35 OF 173

FILE NAME: C:\Users\bdesardi\DC\ACCDocs\GANNETT FLEMING INC\073613-ONTC-NorthlanderPassengerRail\Project Files\Design\CIVIL\Wrkg\11_Math\Sheets\11_101_DEMO.dwg
CREATED: 2023-09-21
MODIFIED: 2024-05-17 15:32

## LEGEND

- SEEDING/SODDING
- CONCRETE
- ASPHALT PAVING (FULL DEPTH)
- ASPHALT PAVING (PARTIAL DEPTH)
- GRAVEL / BALLAST
- UNIT PAVERS

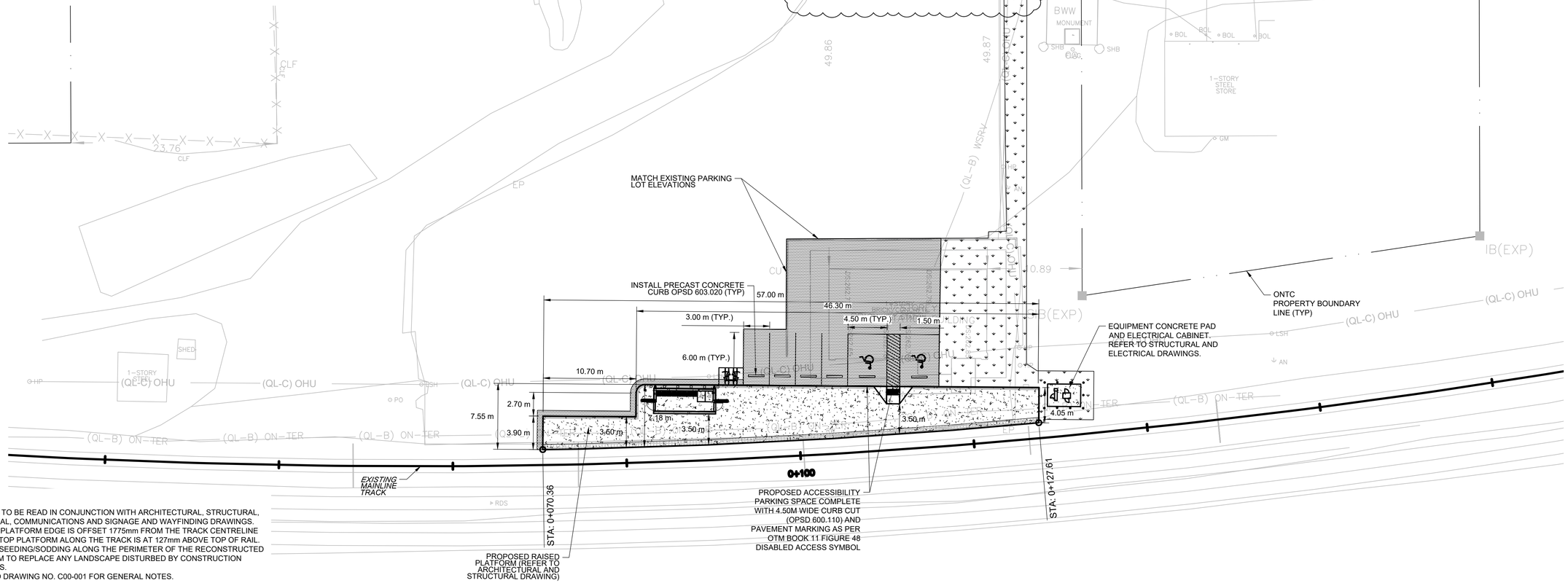
| Point Table | | |
|---|---|---|
| Point # | Northing | Easting |
| P1 | 5377473.2112 | 344269.6029 |

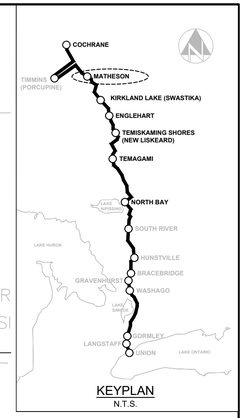
| MATHESON STATION PAVEMENT DESIGN TABLE | | | | |
|---|---|---|---|---|
| FEATURE | ASPHALT | CONCRETE | GRAN "A" | GRAN "B" |
| STATION PLATFORM | REFER TO ARCHITECTURAL/STRUCTURAL DRAWINGS | | | |
| PARKING LOT (FULL DEPTH) | 40mm HL 3<br>40mm HL 8 | - | 150mm | 300mm |
| PARKING LOT (MILL/OVERLAY) | MILL 50mm HL 3 AND REPAVE TO FINAL GRADES | | | |

FOR CONCRETE SLAB DETAILS AT PLATFORM SHELTERS, AND TRANSITIONS, REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS

**SURVEY NOTES:**

1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.
2. THE DRAWING IS REFERENCED TO NAD83 CSRS(2010) / CGVD 2013 / MTM 12
3. SURVEY HAS BEEN COMPILED USING AIRBORNE, STATIC LIDAR & CONVENTIONAL DATA.
   - 3.1. AIRBORNE DATA COLLECTED MAY 2023.
   - 3.2. STATIC DATA FOR WAS COLLECTED MAY 2023.
   - 3.3. CONVENTIONAL DATA COLLECTED IN MAY 2023.
4. SUE DATA WAS COLLECTED ON JULY 7TH 2023.
5. PROJECT CONTROLS:
   - 5.1. 03-101 5377492.418N 344176.187E 260.679 ELEV.
   - 5.2. 03-102 5377494.609N 344360.187E 260.127 ELEV.




KEYPLAN
N.T.S.

1:250 5m 0 5 10 15

**NOTES:**

1. DRAWING TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, STRUCTURAL, ELECTRICAL, COMMUNICATIONS AND SIGNAGE AND WAYFINDING DRAWINGS.
2. CONFIRM PLATFORM EDGE IS OFFSET 1775mm FROM THE TRACK CENTRELINE AND THE TOP PLATFORM ALONG THE TRACK IS AT 127mm ABOVE TOP OF RAIL.
3. PROVIDE SEEDING/SODDING ALONG THE PERIMETER OF THE RECONSTRUCTED PLATFORM TO REPLACE ANY LANDSCAPE DISTURBED BY CONSTRUCTION ACTIVITIES.
4. REFER TO DRAWING NO. C00-001 FOR GENERAL NOTES.

IFT DESIGN
NOT FOR CONSTRUCTION

| NO. | DATE | MODIFICATION | DRAWN | CHKD. | APPRVD. |
|---|---|---|---|---|---|
| 1 | 05/17/2024 | ADDENDUM NO. 1 | BD | TJD | KC |

REVISIONS

DESIGNED BD
DRAWN BD
CHECKED TJD
APPROVED CV

Ontario Northland
GANNETT FLEMING

NORTHEAST PASSENGER RAIL SERVICE
ONTARIO, CANADA
REINSTATED STATIONS (PACKAGE 1 & 2)
MATHESON STATION
CIVIL
GENERAL SITE PLAN

CONTRACT NUMBER 13258
SCALE 1:250
DATE 03/18/2024
DRAWING NUMBER C11-201
SHEET 36 OF 173

FILE NAME: C:\Users\bdeardorff\DC\ACCDocs\GANNETT FLEMING INC\073613-ONTC-NorthlanderPassengerRail\Project Files\Design\CIVIL\Wrks\11_Math\Sheets\11_201_PLAN.dwg
CREATED: 2023-09-21
MODIFIED: 2024-05-17 15:32

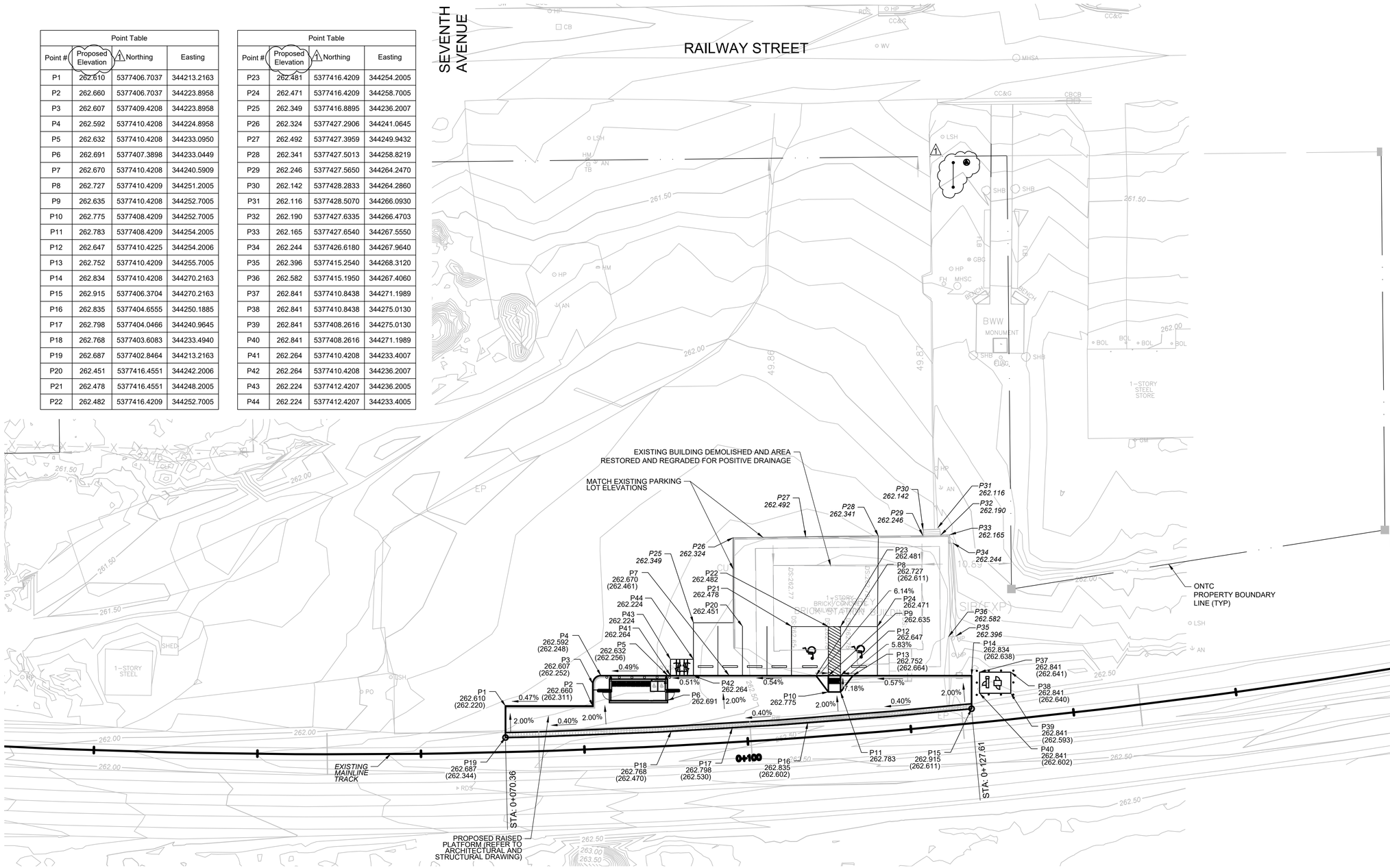
PROJECT NUMBER: 073613
ONTARIO NORTHLAND

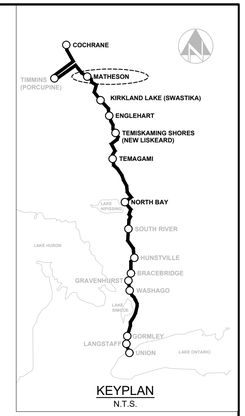
LEGEND

| | |
|---|---|
| XXX.XXX | PROPOSED ELEVATION |
| (XXX.XXX) | BOTTOM ELEVATION |
| *XXX.XXX* | EXISTING ELEVATION |

| Point Table | | | |
|---|---|---|---|
| Point # | Proposed Elevation | 1 Northing | Easting |
| P1 | 262.610 | 5377406.7037 | 344213.2163 |
| P2 | 262.660 | 5377406.7037 | 344223.8958 |
| P3 | 262.607 | 5377409.4208 | 344223.8958 |
| P4 | 262.592 | 5377410.4208 | 344224.8958 |
| P5 | 262.632 | 5377410.4208 | 344233.0950 |
| P6 | 262.691 | 5377407.3898 | 344233.0449 |
| P7 | 262.670 | 5377410.4208 | 344240.5909 |
| P8 | 262.727 | 5377410.4209 | 344251.2005 |
| P9 | 262.635 | 5377410.4208 | 344252.7005 |
| P10 | 262.775 | 5377408.4209 | 344252.7005 |
| P11 | 262.783 | 5377408.4209 | 344254.2005 |
| P12 | 262.647 | 5377410.4225 | 344254.2006 |
| P13 | 262.752 | 5377410.4209 | 344255.7005 |
| P14 | 262.834 | 5377410.4208 | 344270.2163 |
| P15 | 262.915 | 5377406.3704 | 344270.2163 |
| P16 | 262.835 | 5377404.6555 | 344250.1885 |
| P17 | 262.798 | 5377404.0466 | 344240.9645 |
| P18 | 262.768 | 5377403.6083 | 344233.4940 |
| P19 | 262.687 | 5377402.8464 | 344213.2163 |
| P20 | 262.451 | 5377416.4551 | 344242.2006 |
| P21 | 262.478 | 5377416.4551 | 344248.2005 |
| P22 | 262.482 | 5377416.4209 | 344252.7005 |

| Point Table | | | |
|---|---|---|---|
| Point # | Proposed Elevation | 1 Northing | Easting |
| P23 | 262.481 | 5377416.4209 | 344254.2005 |
| P24 | 262.471 | 5377416.4209 | 344258.7005 |
| P25 | 262.349 | 5377416.8895 | 344236.2007 |
| P26 | 262.324 | 5377427.2906 | 344241.0645 |
| P27 | 262.492 | 5377427.3959 | 344249.9432 |
| P28 | 262.341 | 5377427.5013 | 344258.8219 |
| P29 | 262.246 | 5377427.5650 | 344264.2470 |
| P30 | 262.142 | 5377428.2833 | 344264.2860 |
| P31 | 262.116 | 5377428.5070 | 344266.0930 |
| P32 | 262.190 | 5377427.6335 | 344266.4703 |
| P33 | 262.165 | 5377427.6540 | 344267.5550 |
| P34 | 262.244 | 5377426.6180 | 344267.9640 |
| P35 | 262.396 | 5377415.2540 | 344268.3120 |
| P36 | 262.582 | 5377415.1950 | 344267.4060 |
| P37 | 262.841 | 5377410.8438 | 344271.1989 |
| P38 | 262.841 | 5377410.8438 | 344275.0130 |
| P39 | 262.841 | 5377408.2616 | 344275.0130 |
| P40 | 262.841 | 5377408.2616 | 344271.1989 |
| P41 | 262.264 | 5377410.4208 | 344233.4007 |
| P42 | 262.264 | 5377410.4208 | 344236.2007 |
| P43 | 262.224 | 5377412.4207 | 344236.2005 |
| P44 | 262.224 | 5377412.4207 | 344233.4005 |




KEYPLAN
N.T.S.

5m 0 5 10 15
1:250

IFT DESIGN
NOT FOR CONSTRUCTION

| NO. | DATE | MODIFICATION | DRAWN | CHKD. | APPRVD. |
|---|---|---|---|---|---|
| | | | | | |

REVISIONS

| NO. | DATE | MODIFICATION | DRAWN | CHKD. | APPRVD. |
|---|---|---|---|---|---|
| 1 | 05/17/2024 | ADDENDUM NO. 1 | BD | TJD | KC |

REVISIONS

DESIGNED BD
DRAWN BD
CHECKED TJD
APPROVED CV

Ontario Northland
GANNETT FLEMING

NORTHEAST PASSENGER RAIL SERVICE
ONTARIO, CANADA
REINSTATED STATIONS (PACKAGE 1 & 2)
MATHESON STATION
CIVIL
GRADING PLAN

CONTRACT NUMBER 13258
SCALE 1:250
DATE 03/18/2024
DRAWING NUMBER C11-202
SHEET -
OF -

FILE NAME: C:\Users\ygarciaizaguirre\OCVACCDocs\GANNETT FLEMING INC\073613-ONTC-NorthlanderPassengerRail\Project Files\Design\CIVIL\Wrkg\11_Math\Sheets\11_202_ELEV.dwg
CREATED: 2023-10-18
MODIFIED: 2024-05-21 09:32

PROJECT NUMBER: 073613
ONTARIO NORTHLAND

FILE NAME: C:\Users\bdeardorff\DC\ACCDocs\GANNETT FLEMING INC\073613-ONTC-NorthlanderPassengerRail\Project Files\Design\CIVIL\Wrkg\11_Math\Sheets\11_203_UTIL_EX.dwg
CREATED: 2023-09-22
MODIFIED: 2024-05-17 15:32

RAILWAY STREET

SEVENTH AVENUE

300mm Ø PVC STM
(E CONNECTION NOT IDENTIFIED)
CB-013
300mm Ø PVC STM
MH-002
CB-003
300mm Ø PVC STM
(S-E CONNECTION NOT IDENTIFIED)
CB-004
300mm Ø PVC STM
(W CONNECTION NOT IDENTIFIED)
375mm Ø PVC STM
(S CONNECTION NOT IDENTIFIED)
MH-001
200mm Ø CONC. SAN
100mm Ø PVC SAN
(CONNECTIONS NOT IDENTIFIED)
300mm Ø PVC STM
(N CONNECTION NOT IDENTIFIED)
CB-014
300mm Ø PVC STM
CB-005
375mm Ø PVC STM
(N CONNECTION NOT IDENTIFIED)
CB-006
375mm Ø
CONC. STM
CB-007
375mm Ø CORR. STEEL STM
(S CONNECTION NOT IDENTIFIED)
200mm Ø PVC SAN
MH-008
375mm Ø CORR. STEEL STM
(N CONNECTION NOT IDENTIFIED)
CB-009
COMBINED MH
WATERMAIN DETAILS:
N 150mm Ø CAST IRON WM
E CAST IRON WM (SIZE UNKNOWN)
S CAST IRON WM (SIZE UNKNOWN)
W 150mm Ø CAST IRON WM
150mm Ø CLAY SAN
(CONNECTIONS NOT IDENTIFIED)
MH-010
150mm Ø CONC. SAN
100mm Ø PVC SAN
(CONNECTIONS NOT IDENTIFIED)
200mm Ø PVC SAN
EXISTING MAINLINE TRACK
0+000
0+100
1-STORY STEEL STORE
2-STORY FRAME HOUSE
1-STORY BRICK/CONCRETE RAILWAY STATION BUILDING
BWW MONUMENT
SHED

KEYPLAN
N.T.S.
COCHRANE
TIMMINS (PORCUPINE)
MATHESON
KIRKLAND LAKE (SWASTIKA)
ENGLEHART
TEMISKAMING SHORES (NEW LISKEARD)
TEMAGAMI
NORTH BAY
SOUTH RIVER
HUNTSVILLE
GRACEBRIDGE
GRAVENHURST
WASHAGO
LANGSTAFF
ORMSLEY
UNION
LAKE HURON
LAKE NIPISSING
LAKE ONTARIO

LEGEND
(QL-B) COMB — COMBINATION SEWER
(QL-B) STM — STORM SEWER
(QL-B) SAN — SANITARY SEWER
(QL-B) W — WATER MAIN
(QL-B) WSRV — WATER SERVICE
(QL-B) W ABND — WATER MAIN (ABANDONED)
(QL-B) G — GAS MAIN
(QL-B) GSRV — GAS SERVICE
(QL-B) G ABND — GAS MAIN (ABANDONED)
(QL-B) HONI — HYDRO ONE
(QL-B) H — HYDRO
(QL-B) SL — STREET LIGHTING
(QL-B) TC — TRAFFIC CONTROL
(QL-B) TTC — TORONTO TRANSIT COMMISION
(QL-B) MTO — MINISTRY OF TRANSPORTATION
(QL-B) AP — APTUM TECH
(QL-B) B — BELL CANADA
(QL-B) B-FO — BELL CANADA FIBRE OPTIC
(QL-B) BF — BEANFIELD
(QL-B) CO — COGECO
(QL-B) GT — GROUP TELECOM
(QL-B) GO — GO COMMUNICATIONS
(QL-B) METX — METROLINX
(QL-B) AS — ALLSTREAM
(QL-B) R — ROGERS
(QL-B) R-FO — ROGERS FIBRE OPTIC
(QL-B) T — TELUS
(QL-B) TEL UNKN — UNKNOWN TELECOM
(QL-B) VF — VIDEOTRON
(QL-B) ZG — ZAYO GROUP
(QL-B) 360 — 360 NETWORK
(QL-B) CN — CN RAIL COMMUNICATIONS
(QL-B) CP — CP RAIL COMMUNICATIONS
(QL-B) TCPL — TRANS-CANADIAN PIPELINE
(QL-B) SCPL — SUN-CANADIAN PIPELINE
(QL-B) STEAM — STEAM PIPE
(QL-C) OHU — UNKNOWN AERIAL

1:250 5m 0 5 10 15

IFT DESIGN
NOT FOR CONSTRUCTION

| NO. | DATE | MODIFICATION | DRAWN | CHKD. | APPRVD. |
|---|---|---|---|---|---|
| 1 | 05/17/2024 | ADDENDUM NO. 1 | BD | TJD | KC |

REVISIONS

DESIGNED N/A
DRAWN BD
CHECKED TJD
APPROVED CV

Ontario Northland
GANNETT FLEMING

NORTHEAST PASSENGER RAIL SERVICE
ONTARIO, CANADA
REINSTATED STATIONS (PACKAGE 1 & 2)
MATHESON STATION
CIVIL
EXISTING UTILITY COMPOSITE PLAN

CONTRACT NUMBER 13258
SCALE 1:250
DATE 03/18/2024
DRAWING NUMBER C11-203
SHEET 38 OF 173

ONTARIO NORTHLAND PROJECT NUMBER: 073613

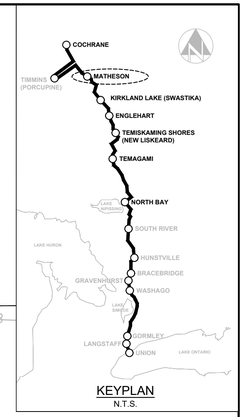
PROPOSED SIGN (REFER TO SIGNAGE AND WAYFINDING SITE PLAN)

CONSTRUCTION AREA

PRESERVE ACCESS TO MOW SHED

PROPOSED PLATFORM

0+100




KEYPLAN
N.T.S.

5m 0 5 10 15
1:250

IFT DESIGN
NOT FOR CONSTRUCTION

| NO. | DATE | MODIFICATION | DRAWN | CHKD. | APPRVD. |
|---|---|---|---|---|---|
| | | REVISIONS | | | |

| NO. | DATE | ADDENDUM NO. 1 | DRAWN | CHKD. | APPRVD. |
|---|---|---|---|---|---|
| 1 | 05/17/2024 | | BD | TJD | KC |
| | | REVISIONS | | | |

| | |
|---|---|
| DESIGNED | BD |
| DRAWN | BD |
| CHECKED | TJD |
| APPROVED | CV |

Ontario Northland

GANNETT FLEMING

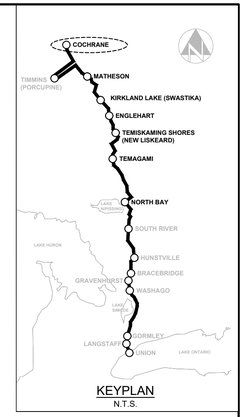
NORTHEAST PASSENGER RAIL SERVICE
ONTARIO, CANADA
REINSTATED STATIONS (PACKAGE 1 & 2)
MATHESON STATION
CIVIL
CONSTRUCTION AREA

| | |
|---|---|
| CONTRACT NUMBER | 13258 |
| SCALE 1:250 | DATE 03/18/2024 |
| DRAWING NUMBER | C11-204 |
| SHEET 39 | OF 173 |

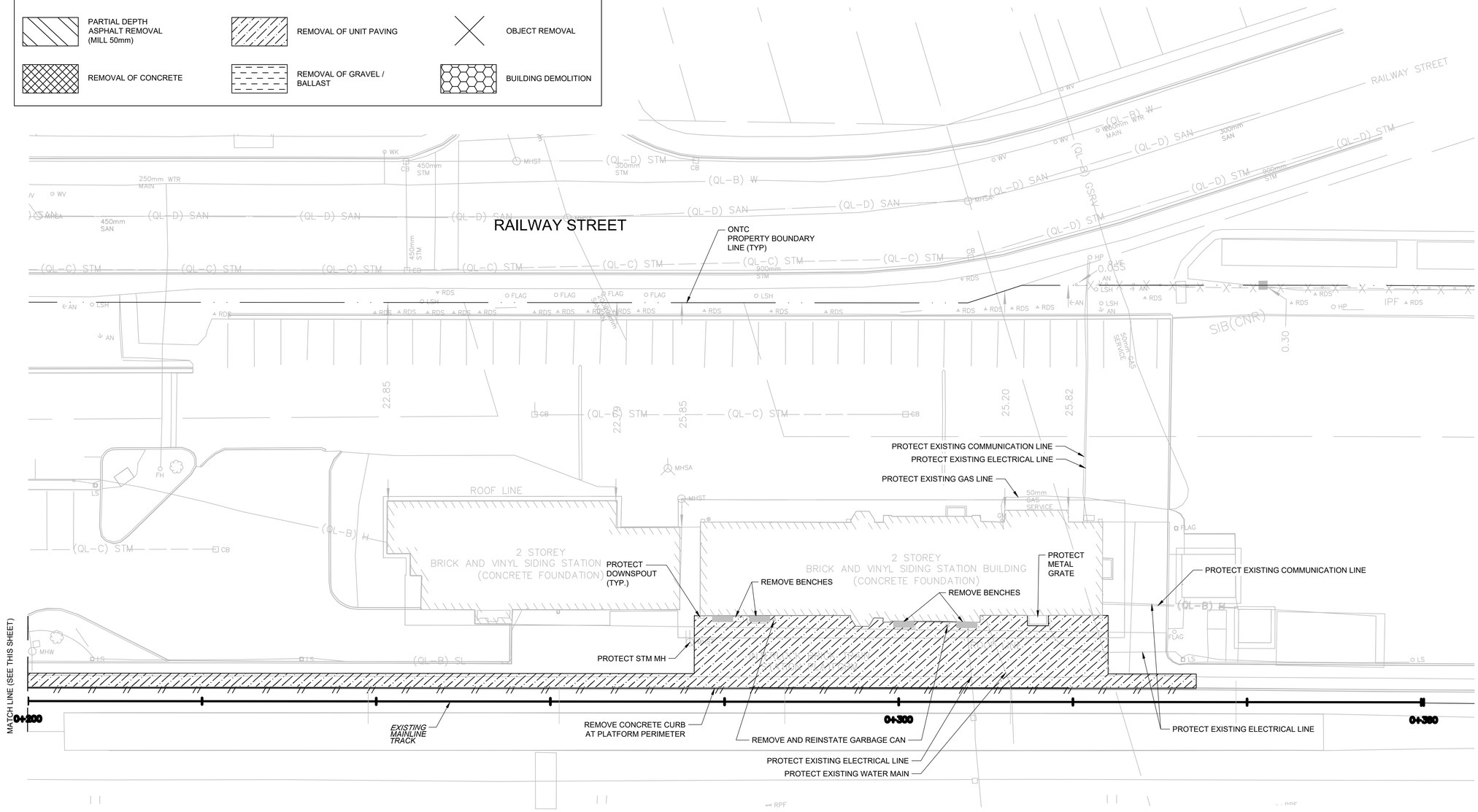
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CREATED: 2024-01-26
MODIFIED: 2024-05-17 15:32

## LEGEND

| | | |
|---|---|---|
| REMOVAL OF ASPHALT (FULL DEPTH) | REMOVAL OF VEGETATION | LINEAR REMOVAL |
| PARTIAL DEPTH ASPHALT REMOVAL (MILL 50mm) | REMOVAL OF UNIT PAVING | OBJECT REMOVAL |
| REMOVAL OF CONCRETE | REMOVAL OF GRAVEL / BALLAST | BUILDING DEMOLITION |




KEYPLAN
N.T.S.




**NOTES:**

1. REFER TO GRADING PLAN FOR NORTHINGS AND EASTINGS ASSOCIATED WITH PLATFORM AND ASSOCIATED WORK.

5m 0 5 10 15
1:250

IFT DESIGN
NOT FOR CONSTRUCTION

| NO. | DATE | MODIFICATION | DRAWN | CHKD. | APPRVD. |
|---|---|---|---|---|---|
| | | | | | |
| 1 | 05/17/2024 | ADDENDUM NO. 1 | BD | TJD | KC |

REVISIONS

| | |
|---|---|
| DESIGNED | BD |
| DRAWN | BD |
| CHECKED | TJD |
| APPROVED | CV |

Ontario Northland

GANNETT FLEMING

NORTHEAST PASSENGER RAIL SERVICE
ONTARIO, CANADA
REINSTATED STATIONS (PACKAGE 1 & 2)
COCHRANE STATION
CIVIL
DEMOLITION PLAN

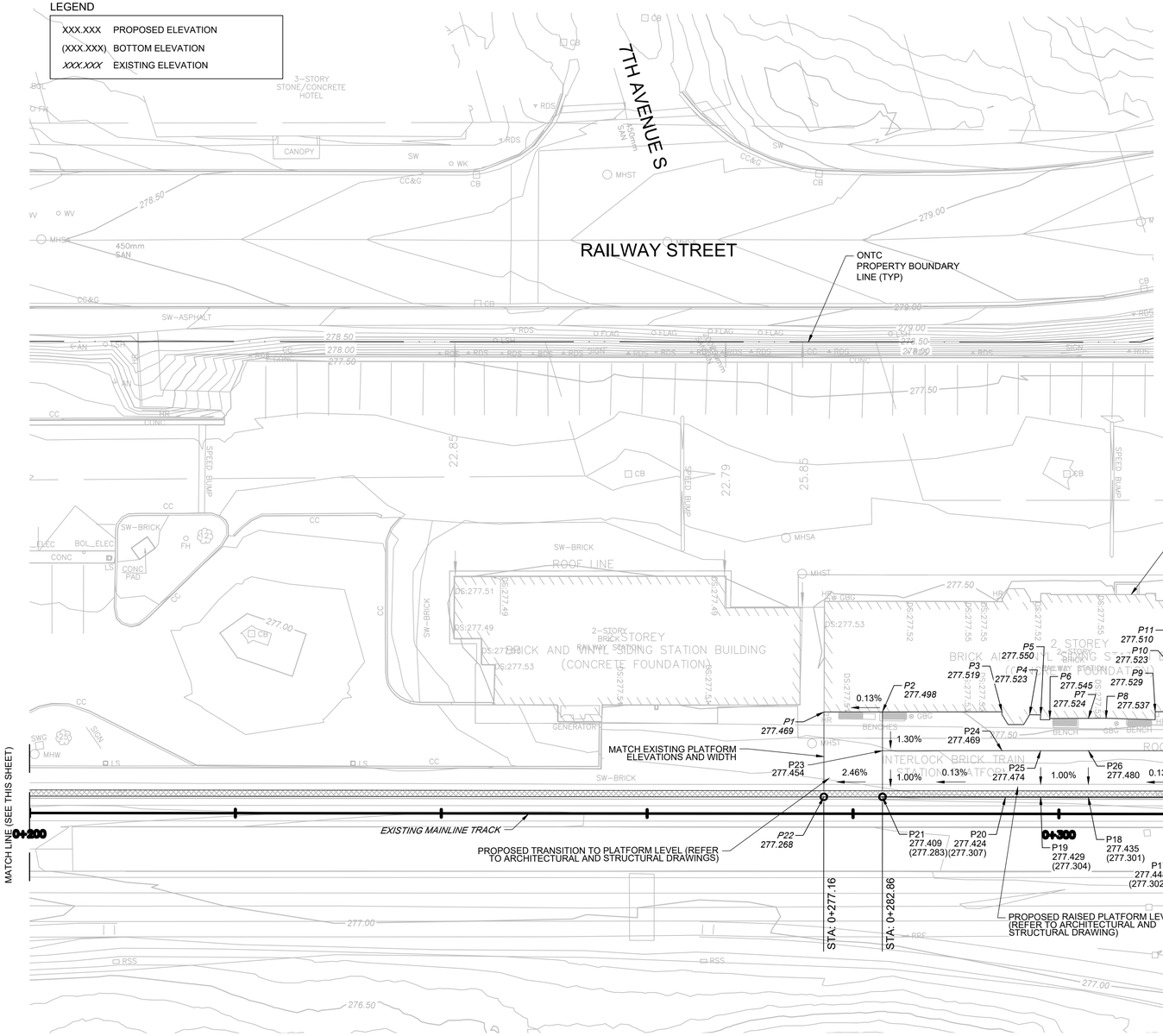
| | |
|---|---|
| CONTRACT NUMBER | 13258 |
| SCALE | 1:250 |
| DATE | 03/18/2024 |
| DRAWING NUMBER | C12-101 |
| SHEET | 40 |
| OF | 173 |

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CREATED: 2023-09-21
MODIFIED: 2024-05-17 15:28

PROJECT NUMBER: 073613
ONTARIO NORTHLAND
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CREATED: 2023-10-18
MODIFIED: 2024-05-17 15:29

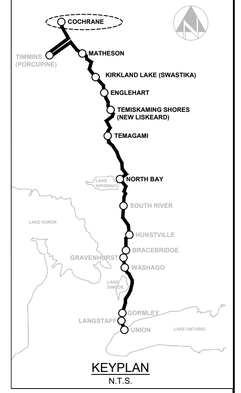
LEGEND

| | |
|---|---|
| XXX.XXX | PROPOSED ELEVATION |
| (XXX.XXX) | BOTTOM ELEVATION |
| *XXX.XXX* | EXISTING ELEVATION |




| Point Table | | | |
|---|---|---|---|
| Point # | Proposed Elevation | Northing | Easting |
| P1 | 277.469 | 5435770.8130 | 303088.0031 |
| P2 | 277.498 | 5435769.1785 | 303093.4402 |
| P3 | 277.519 | 5435765.8330 | 303104.5680 |
| P4 | 277.523 | 5435764.7880 | 303107.0550 |
| P5 | 277.550 | 5435764.4590 | 303108.0770 |
| P6 | 277.545 | 5435763.8700 | 303108.8280 |
| P7 | 277.524 | 5435762.8031 | 303112.4230 |
| P8 | 277.537 | 5435762.3170 | 303114.0610 |
| P9 | 277.529 | 5435761.5450 | 303118.8200 |
| P10 | 277.523 | 5435759.9840 | 303123.9970 |
| P11 | 277.510 | 5435759.2850 | 303126.3160 |
| P12 | 277.518 | 5435758.5993 | 303128.5894 |
| P13 | 277.509 | 5435757.4930 | 303132.2610 |
| P14 | 277.347 | 5435750.1006 | 303130.0327 |
| P15 | 277.328 | 5435746.4020 | 303140.1804 |
| P16 | 277.456 | 5435750.6392 | 303126.1893 |

| Point Table | | | |
|---|---|---|---|
| Point # | Proposed Elevation | Northing | Easting |
| P17 | 277.448 | 5435752.5849 | 303119.7569 |
| P18 | 277.435 | 5435755.4763 | 303110.1979 |
| P19 | 277.429 | 5435756.8148 | 303105.7723 |
| P20 | 277.424 | 5435757.8035 | 303102.5042 |
| P21 | 277.409 | 5435761.2648 | 303091.0611 |
| P22 | 277.268 | 5435762.9091 | 303085.6121 |
| P23 | 277.454 | 5435765.5658 | 303092.3578 |
| P24 | 277.469 | 5435762.2135 | 303103.4767 |
| P25 | 277.474 | 5435761.1293 | 303107.0731 |
| P26 | 277.480 | 5435759.7920 | 303111.5085 |
| P27 | 277.493 | 5435756.9107 | 303121.0655 |
| P28 | 277.501 | 5435754.9720 | 303127.4960 |
| P29 | 277.517 | 5435767.7551 | 303135.3986 |
| P30 | 277.462 | 5435767.1491 | 303137.3046 |
| P31 | 277.466 | 5435764.4807 | 303136.4561 |
| P32 | 277.524 | 5435765.0800 | 303134.5727 |




KEYPLAN
N.T.S.

IFT DESIGN
NOT FOR CONSTRUCTION

| NO. | DATE | MODIFICATION | DRAWN | CHKD. | APPRVD. |
|---|---|---|---|---|---|
| | | | | | |

REVISIONS

| NO. | DATE | MODIFICATION | DRAWN | CHKD. | APPRVD. |
|---|---|---|---|---|---|
| 1 | 05/17/2024 | ADDENDUM NO. 1 | BD | TJD | KC |

REVISIONS

| | |
|---|---|
| DESIGNED | BD |
| DRAWN | BD |
| CHECKED | TJD |
| APPROVED | CV |

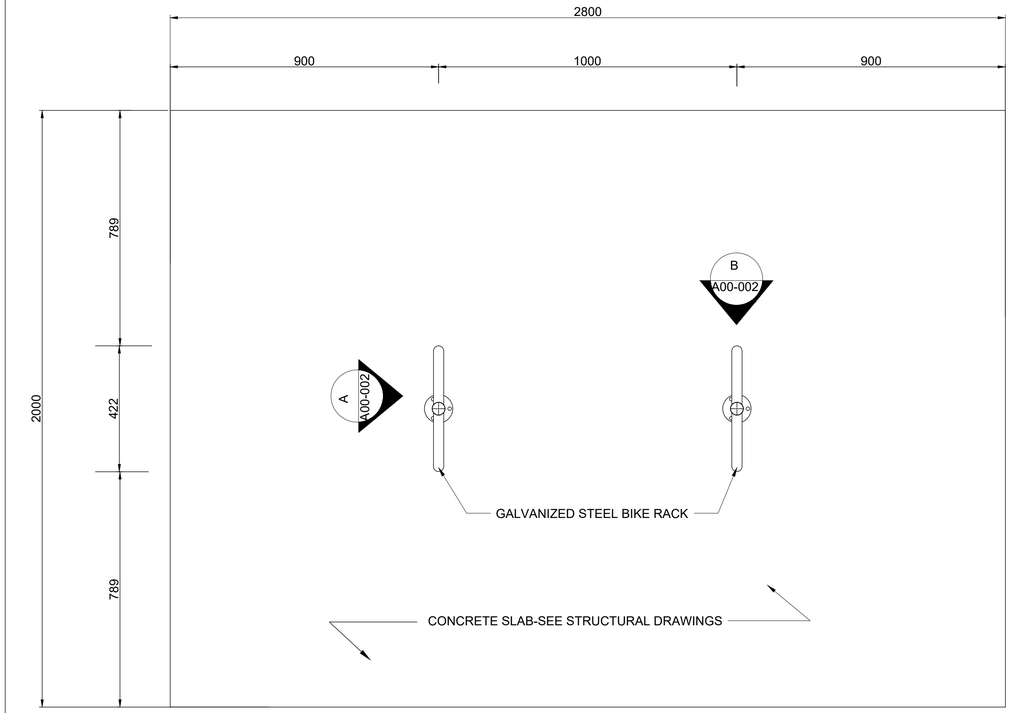
Ontario Northland

GANNETT FLEMING

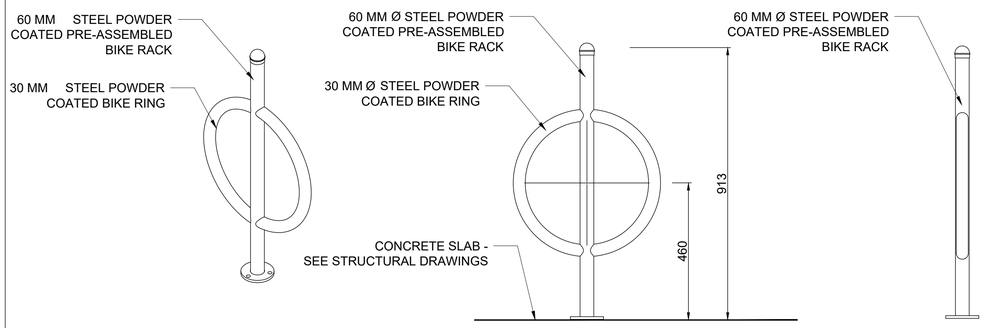
NORTHEAST PASSENGER RAIL SERVICE
ONTARIO, CANADA
REINSTATED STATIONS (PACKAGE 1 & 2)
COCHRANE STATION
CIVIL
GRADING PLAN

| | |
|---|---|
| CONTRACT NUMBER | 13258 |
| SCALE | 1:250 |
| DATE | 03/18/2024 |
| DRAWING NUMBER | C12-202 |
| SHEET | 41 |
| OF | 173 |

FILE NAME: C:\Users\sahmed\DC\ACCDocs\GANNETT FLEMING INC\073613--ONTC--NorthlanderPassengerRail\Project Files\Design\PAC\ARCH\Wrkg\DETAILED_DESIGN\DWG\A00-002_ARCH. Typ. Details 1 OF 2.dwg
CREATED: 2024-05-15
MODIFIED: 2024-05-17 09:36
ONTARIO NORTHLAND PROJECT NUMBER: 073613




**PLAN VIEW**

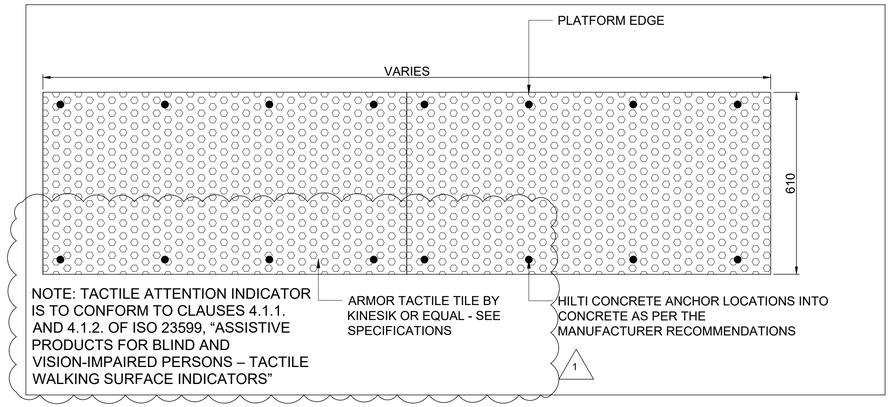



**3D VIEW** **ELEVATION A** **ELEVATION B**

## 1 BIKE POST TYPICAL DETAILS

SCALE : 1:10

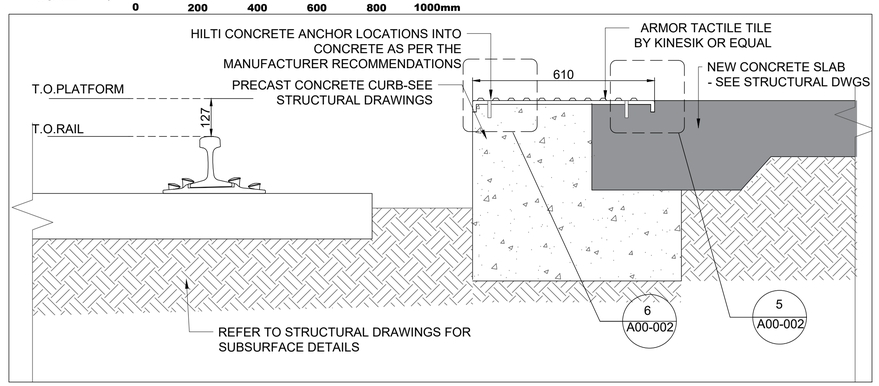
0 200 400 600 800 1000mm




## 2 TYP. TACTILE DETAILS-PLAN VIEW

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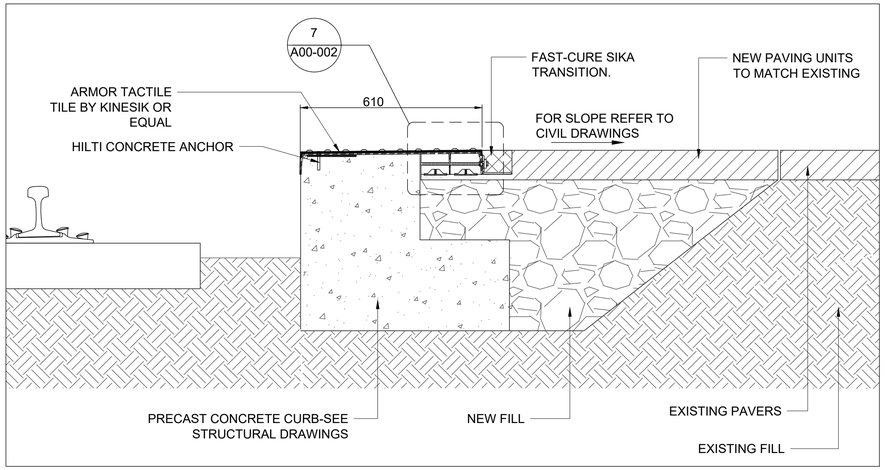
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## 3 TYP. TACTILE DETAILS AT NEW PLATFORM EDGE-SECTION VIEW

SCALE : 1:10

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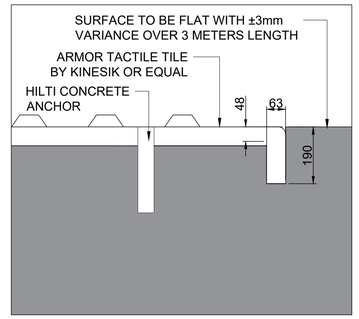

## 4 TYP. TACTILE DETAILS AT EXISTING PAVEMENT - SECTION VIEW

SCALE : 1:10

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METRIC

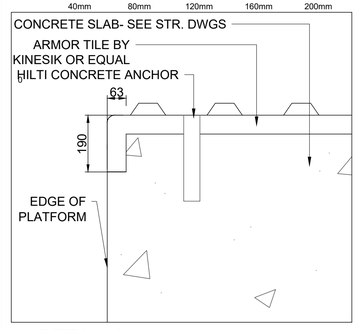
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## 5 DETAIL 5

SCALE : 1:2

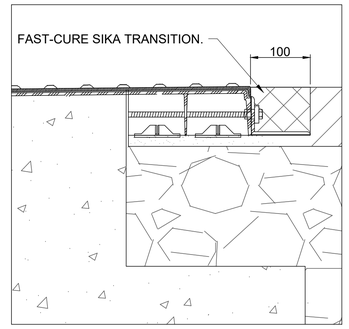
40mm 80mm 120mm 160mm 200mm




## 6 DETAIL 6

SCALE : 1:2

0 40mm 80mm 120mm 160mm 200mm




## 7 DETAIL 7 - ARMOR TILE BY KINESIK OR EQUAL

SCALE : 1:5

0 100 200 300 400 500mm

| NO. | DATE | MODIFICATION | DRAWN | CHKD. | APPRVD. |
|---|---|---|---|---|---|
| 1 | 5/17/24 | ADDENDUM 1 | N.M | S.A | J.B |

REVISIONS

IFT DESIGN
NOT FOR CONSTRUCTION

| | |
|---|---|
| DESIGNED | JB |
| DRAWN | NM |
| CHECKED | SA |
| APPROVED | JB |

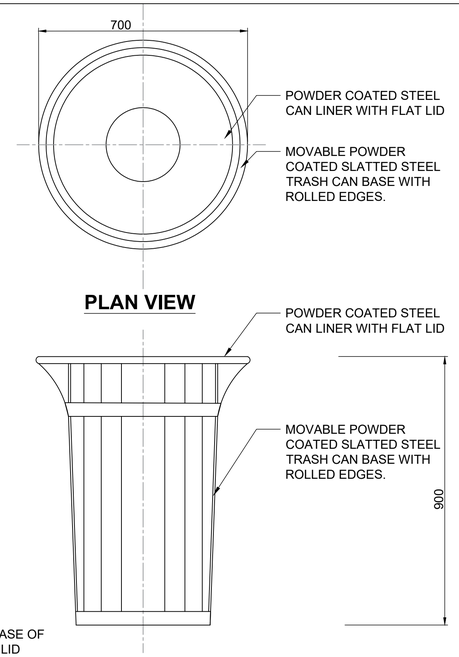
Ontario Northland

GANNETT FLEMING

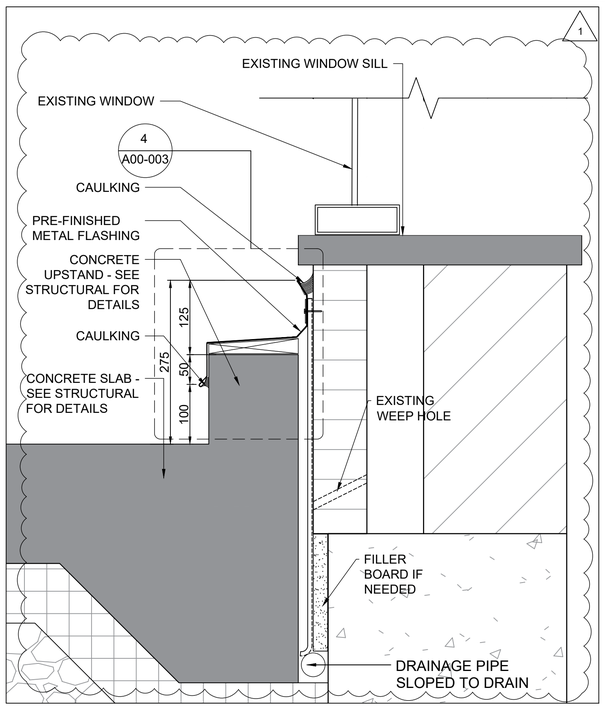
NORTHEAST PASSENGER RAIL SERVICE
ONTARIO, CANADA
REINSTATED STATIONS (PACKAGE 1 & 2)

ARCHITECTURAL
TYPICAL DETAILS 1/3

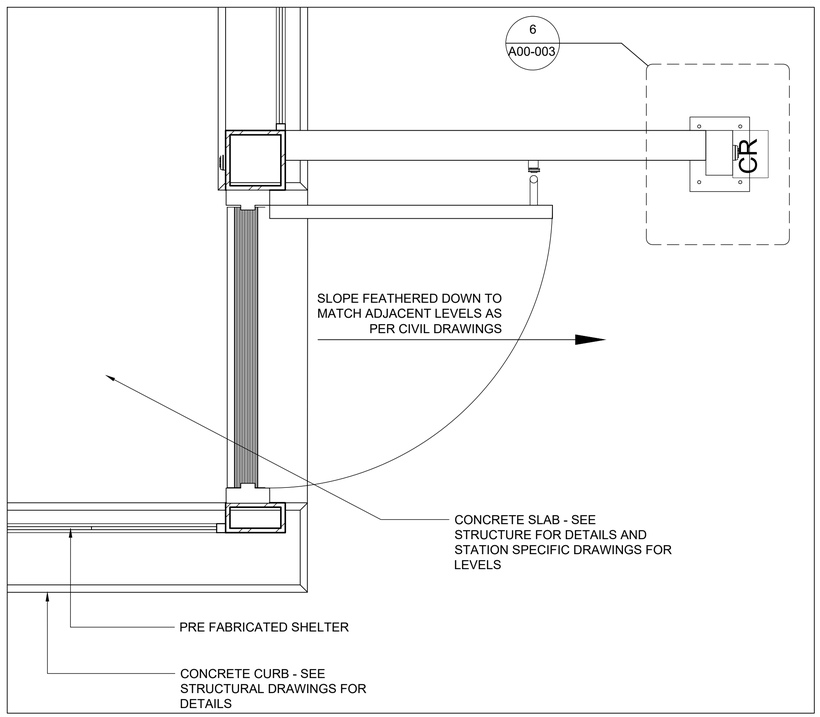
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| CONTRACT NUMBER | 13258 |
| SCALE | AS NOTED |
| DATE | 03/18/2024 |
| DRAWING NUMBER | A00-002 |
| SHEET | 46 |
| OF | 173 |




1 TYP. TRASH CAN WITH FLAT LID
SCALE 1:10



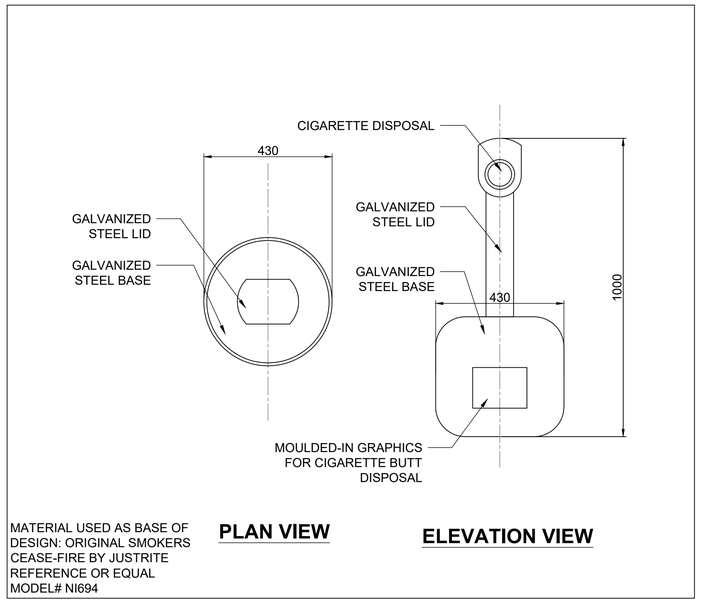

3 TYP. FLASHING DETAIL- SECTION VIEW
SCALE 1:5



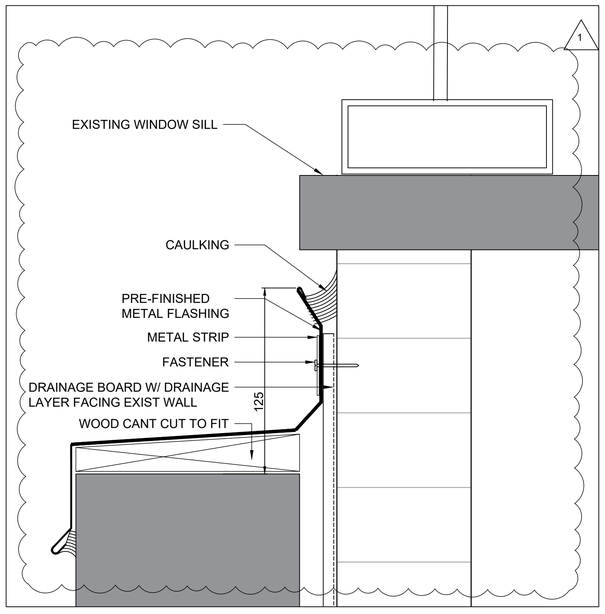

5 GENERAL DETAIL AT SHELTER DOORS
SCALE 1:10

METRIC

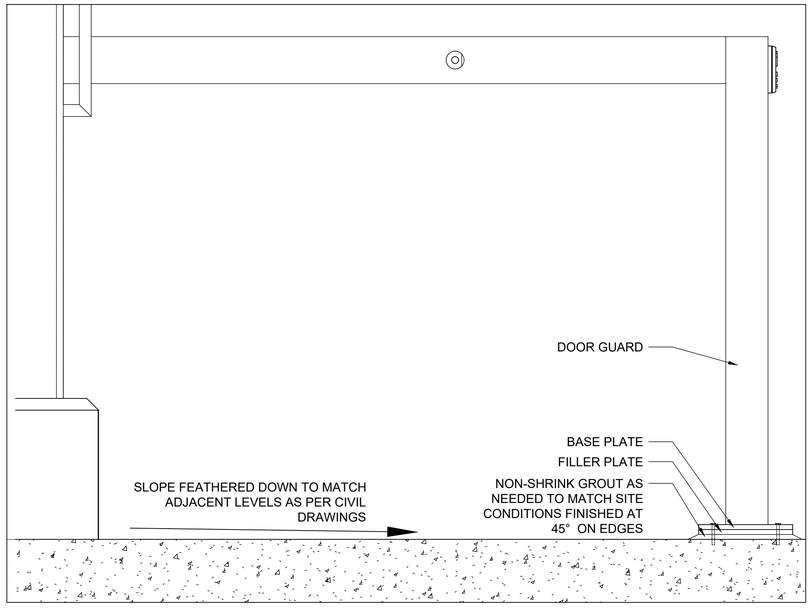
ALL DIMENSIONS SHOWN ARE IN MILLIMETERS AND ELEVATIONS ARE IN METERS.




2 TYP. SMOKER`S RECEPTACLE
SCALE 1:10




4 DETAIL 4
SCALE 1:2




6 TYP. DOOR GUARD INSTALLATION DETAIL
SCALE 1:5

| NO. | DATE | MODIFICATION | DRAWN | CHKD. | APPRVD. |
|---|---|---|---|---|---|
| | | REVISIONS | | | |
| 1 | 5/17/24 | ADDENDUM 1 | N.M | S.A | J.B |
| | | REVISIONS | | | |

IFT DESIGN
NOT FOR CONSTRUCTION

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|---|---|
| DESIGNED | JB |
| DRAWN | NM |
| CHECKED | SA |
| APPROVED | JB |

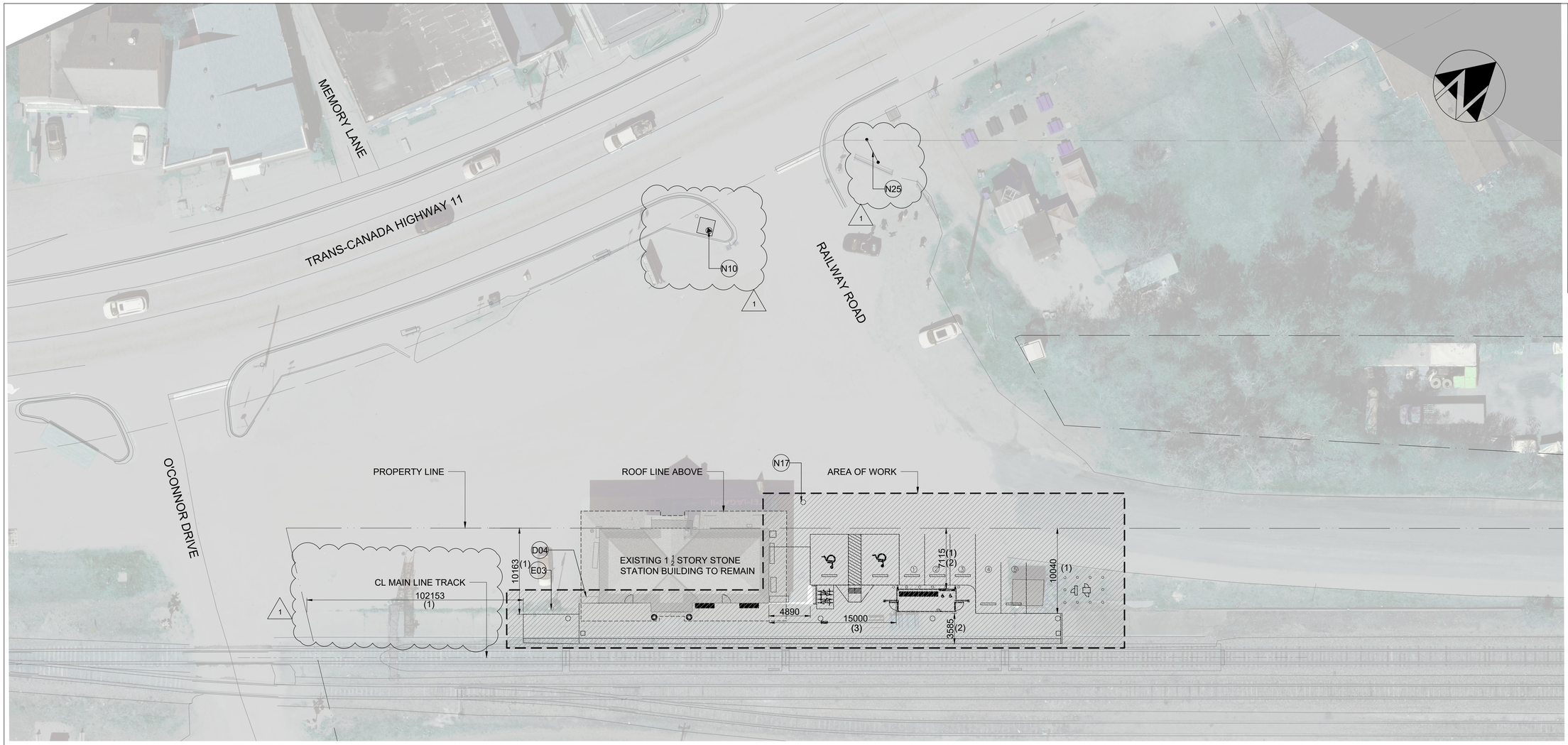
Ontario Northland

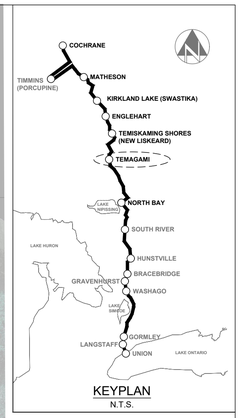
GANNETT FLEMING

NORTHEAST PASSENGER RAIL SERVICE
ONTARIO, CANADA
REINSTATED STATIONS (PACKAGE 1 & 2)
ARCHITECTURAL
TYPICAL DETAILS 2/3

| | | | |
|---|---|---|---|
| CONTRACT NUMBER | 13258 | | |
| SCALE | AS NOTED | DATE | 03/18/2024 |
| DRAWING NUMBER | A00-003 | | |
| SHEET | 47 | OF | 173 |

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CREATED: 2024-05-15
MODIFIED: 2024-05-17 09:23




KEYPLAN
N.T.S.

## METRIC

ALL DIMENSIONS SHOWN ARE IN MILLIMETERS AND ELEVATIONS ARE IN METERS.

(1) TO BE VERIFIED ON SITE .
(2) TO FACE OF THE SHELTER`S CONCRETE CURB
(3) FACE OF THE BUILDING TO FACE OF THE SHELTER`S CONCRETE CURB
(4) SEE CIVIL DWGS FOR ELEVATIONS AND SLOPE

# TEMAGAMI STATION SITE LAYOUT

SCALE 1:250

0 10 20 30 40 50m

**KEYNOTES**

EXISTING:

E01 : EXISTING BENCHES TO REMAIN.
E02 : EXISTING UTILITY CHAMBER.
E03 : EXISTING FLAG POLES.
E04 : EXISTING TRANSFORMER.
E05 : EXISTING FENCE - TYP.
E06 : EXISTING PLANTER TO REMAIN.
E07 : EXISTING BOLLARDS - TYP.
E08 : EXISTING SHED.

DEMOLITION:

D01 : EXISTING BUILDING TO BE DEMOLISHED - SEE STRUCTURAL DRAWINGS FOR DETAILS. 1
D02 : EXISTING SHED TO BE DEMOLISHED BY OTHERS - SEE CIVIL DRAWINGS FOR DETAIL.
D03 : EXISTING BENCHES TO BE REMOVED AND RETURNED TO ONTC.
D04 : EXISTING PLANTER TO BE REMOVED, STORED AND REINSTALLED AS NEEDED TO FACILITATE THE WORK.
D05 : EXISTING RAMPS AND HANDRAILS TO BE DEMOLISHED.

NEW:

N01 : CONCRETE PLATFORM WITH BROOM FINISH - SEE STRUCTURAL DRAWINGS FOR DETAILS AND CIVIL DRAWINGS FOR ELEVATIONS AND SLOPE.
N02 : TACTILE EDGE - SEE DRAWING A00-002 FOR DETAILS.
N03 : BARRIER-FREE PARKING SPACE - SEE CIVIL DRAWINGS - TYP.
N04 : STANDARD PARKING SPACE - SEE CIVIL DRAWINGS - TYP.
N05 : TWO BIKE STANDS - SEE DRAWING A00-002 FOR DETAILS.
N06 : CONCRETE PAD AT TRANSITION BETWEEN EXISTING AND NEW PLATFORMS - SEE STRUCTURAL DRAWINGS FOR DETAILS AND CIVIL DRAWINGS FOR ELEVATIONS AND SLOPE.
N07 : WASTE RECEPTACLES - SEE DRAWING A00-003 FOR DETAILS.
N08 : SMOKERS RECEPTACLES - SEE DRAWING A00-003 FOR DETAILS.
N09 : PRE-MANUFACTURED PASSENGERS` SHELTER - TO BE INSTALLED BY GENERAL CONTRACTOR. GENERAL CONTRACTOR TO COORDINATE SITE PREPARATION AND INSTALLATION REQUIREMENTS WITH SHELTER`S MANUFACTURER.
N10 : ONTC BACKLIT TOTEM - SEE SIGNAGE DRAWINGS FOR DETAILS, AND CIVIL DRAWINGS FOR LOCATION. 1
N11 : END OF PLATFORM SIGN - SEE SIGNAGE DRAWINGS FOR DETAILS.
N12 : NEW BENCHES - BY OTHERS.
N13 : ASPHALT SIDE WALK - SEE CIVIL DRAWINGS FOR DETAILS.
N14 : GUARDRAIL - SEE DRAWING A10-701 FOR DETAILS.
N15 : AUTOMATIC DOOR OPERATOR PUSH BUTTON, TO BE INSTALLED ON THE SIDE OF SHELTER CLOSE TO THE BARRIER-FREE PARKING - TO BE COORDINATED WITH THE SHELTER MANUFACTURER.
N16 : CURB CUT AT BARRIER-FREE PARKING - SEE CIVIL DRAWINGS FOR DETAILS.
N17 : LIGHT POLES - SEE ELECTRICAL DRAWINGS FOR DETAILS.
N18 : ELECTRICAL AND COMMUNICATION PANELS - SEE ELEC. & COMM. DRAWINGS FOR DETAIL.
N19 : TYPE 01, SAFETY STAINLESS STEEL BOLLARD - SEE DRAWING A00-004 FOR DETAILS.
N20 : CONCRETE RAMP WITH BROOM FINISH SEE STRUCTURAL DRAWINGS FOR DETAILS.
N21 : ACCESS GATE - SEE DRAWING A10-701 FOR DETAILS.
N22 : 300mm WIDE PAINTED CONCRETE EDGE -YELLOW COLOUR - SEE SPEC FOR DETAILS.
N23 : NEW CONCRETE UPSTAND - SEE DRAWING A00-003 AND STRUCTURAL DRAWINGS FOR DETAILS.
N24 : TYPE 02, SAFETY CONCRETE FILLED GALVANIZED STEEL BOLLARD WITH STAINLESS STEEL COVER - SEE DRAWING A00-004 FOR DETAILS.
N25 : FACILITY NAME SIGN - SEE SIGNAGE DRAWINGS FOR DETAILS, AND CIVIL DRAWINGS FOR LOCATION. 1

IFT DESIGN
NOT FOR CONSTRUCTION

| NO. | DATE | MODIFICATION | DRAWN | CHKD. | APPRVD. |
|---|---|---|---|---|---|
| 1 | 5/17/24 | ADDENDUM 1 | N.M | S.A | J.B |

REVISIONS

| | |
|---|---|
| DESIGNED | JB |
| DRAWN | NM |
| CHECKED | SA |
| APPROVED | JB |

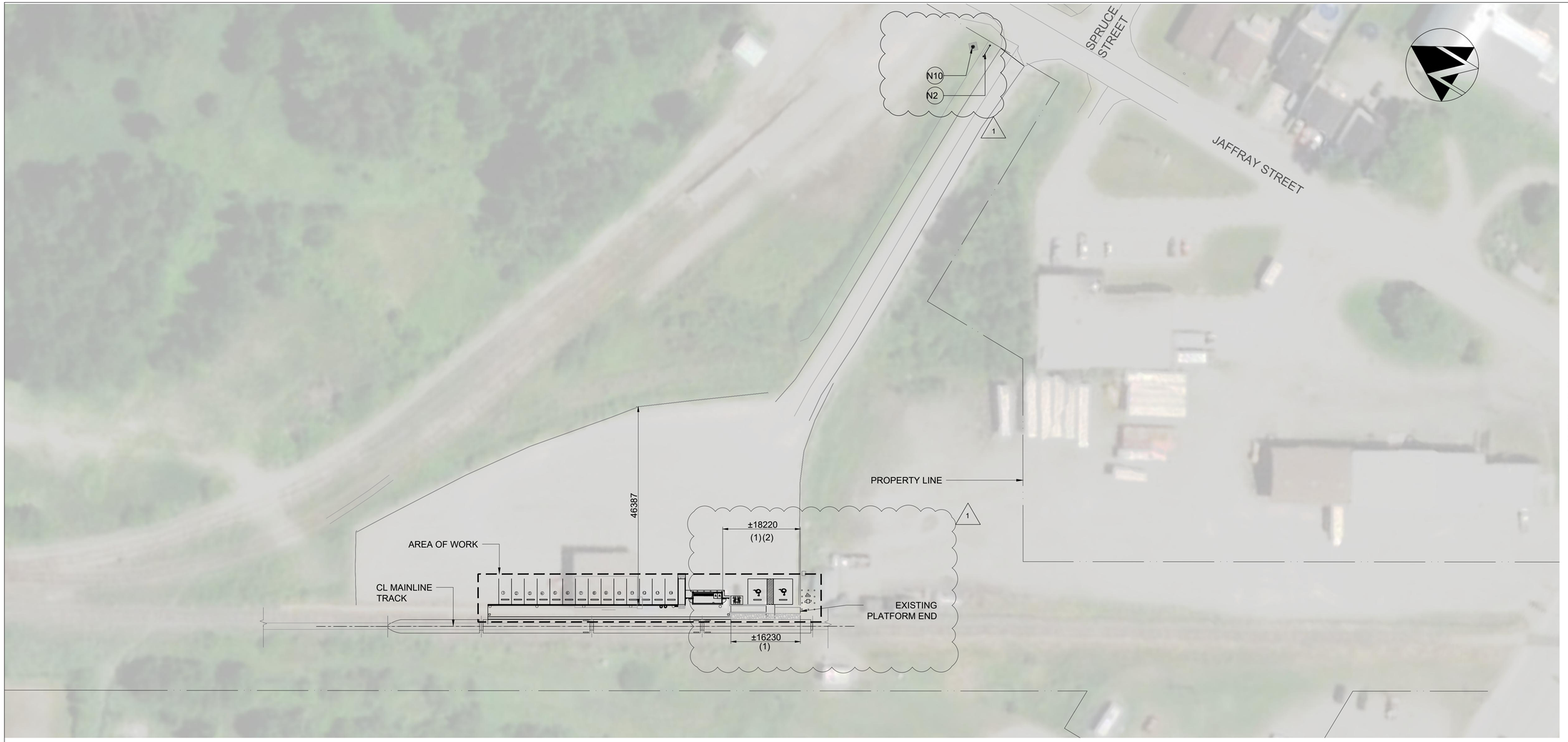
Ontario Northland
GANNETT FLEMING

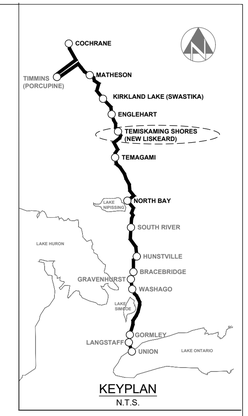
NORTHEAST PASSENGER RAIL SERVICE
ONTARIO, CANADA
REINSTATED STATIONS (PACKAGE 1 & 2)
TEMAGAMI STATION
ARCHITECTURAL
SITE LAYOUT

| | | | |
|---|---|---|---|
| CONTRACT NUMBER | 13258 | | |
| SCALE | 1:250 | DATE | 03/18/2024 |
| DRAWING NUMBER | A07-001 | | |
| SHEET | 51 | OF | 173 |

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CREATED: 2024-05-17
MODIFIED: 2024-05-17 13:38

PROJECT NUMBER: 073613
ONTARIO NORTHLAND




KEYPLAN
N.T.S.

## METRIC

ALL DIMENSIONS SHOWN ARE IN MILLIMETERS AND ELEVATIONS ARE IN METERS.

(1) TO BE VERIFIED ON SITE .
(2) TO FACE OF THE SHELTER`S CONCRETE CURB
(3) FACE OF THE BUILDING TO FACE OF THE SHELTER`S CONCRETE CURB
(4) SEE CIVIL DWGS FOR ELEVATIONS AND SLOPE

## TEMISKAMING SHORES STATION SITE LAYOUT

SCALE 1:500

0 5 10 15 20m

**KEYNOTES**

EXISTING:

E01 : EXISTING BENCHES TO REMAIN.
E02 : EXISTING UTILITY CHAMBER.
E03 : EXISTING FLAG POLES.
E04 : EXISTING TRANSFORMER.
E05 : EXISTING FENCE - TYP.
E06 : EXISTING PLANTER TO REMAIN.
E07 : EXISTING BOLLARDS - TYP.
E08 : EXISTING SHED.

DEMOLITION:

D01 : EXISTING BUILDING TO BE DEMOLISHED - SEE STRUCTURAL DRAWINGS FOR DETAILS.
D02 : EXISTING SHED TO BE DEMOLISHED BY OTHERS - SEE CIVIL DRAWINGS FOR DETAIL.
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D05 : EXISTING RAMPS AND HANDRAILS TO BE DEMOLISHED.

NEW:

N01 : CONCRETE PLATFORM WITH BROOM FINISH - SEE STRUCTURAL DRAWINGS FOR DETAILS AND CIVIL DRAWINGS FOR ELEVATIONS AND SLOPE.
N02 : TACTILE EDGE - SEE DRAWING A00-002 FOR DETAILS.
N03 : BARRIER-FREE PARKING SPACE - SEE CIVIL DRAWINGS - TYP.
N04 : STANDARD PARKING SPACE - SEE CIVIL DRAWINGS - TYP.
N05 : TWO BIKE STANDS - SEE DRAWING A00-002 FOR DETAILS.
N06 : CONCRETE PAD AT TRANSITION BETWEEN EXISTING AND NEW PLATFORMS - SEE STRUCTURAL DRAWINGS FOR DETAILS AND CIVIL DRAWINGS FOR ELEVATIONS AND SLOPE.
N07 : WASTE RECEPTACLES - SEE DRAWING A00-003 FOR DETAILS.
N08 : SMOKERS RECEPTACLES - SEE DRAWING A00-003 FOR DETAILS.
N09 : PRE-MANUFACTURED PASSENGERS` SHELTER - TO BE INSTALLED BY GENERAL CONTRACTOR. GENERAL CONTRACTOR TO COORDINATE SITE PREPARATION AND INSTALLATION REQUIREMENTS WITH SHELTER`S MANUFACTURER.
N10 : ONTC BACKLIT TOTEM - SEE SIGNAGE DRAWINGS FOR DETAILS, AND CIVIL DRAWINGS FOR LOCATION.
N11 : END OF PLATFORM SIGN - SEE SIGNAGE DRAWINGS FOR DETAILS.
N12 : NEW BENCHES - BY OTHERS.
N13 : ASPHALT SIDE WALK - SEE CIVIL DRAWINGS FOR DETAILS.
N14 : GUARDRAIL - SEE DRAWING A10-701 FOR DETAILS.
N15 : AUTOMATIC DOOR OPERATOR PUSH BUTTON, TO BE INSTALLED ON THE SIDE OF SHELTER CLOSE TO THE BARRIER-FREE PARKING - TO BE COORDINATED WITH THE SHELTER MANUFACTURER.
N16 : CURB CUT AT BARRIER-FREE PARKING - SEE CIVIL DRAWINGS FOR DETAILS.
N17 : LIGHT POLES - SEE ELECTRICAL DRAWINGS FOR DETAILS.
N18 : ELECTRICAL AND COMMUNICATION PANELS - SEE ELEC. & COMM. DRAWINGS FOR DETAIL.
N19 : TYPE 01, SAFETY STAINLESS STEEL BOLLARD - SEE DRAWING A00-004 FOR DETAILS.
N20 : CONCRETE RAMP WITH BROOM FINISH SEE STRUCTURAL DRAWINGS FOR DETAILS.
N21 : ACCESS GATE - SEE DRAWING A10-701 FOR DETAILS.
N22 : 300mm WIDE PAINTED CONCRETE EDGE -YELLOW COLOUR - SEE SPEC FOR DETAILS.
N23 : NEW CONCRETE UPSTAND - SEE DRAWING A00-003 AND STRUCTURAL DRAWINGS FOR DETAILS.
N24 : TYPE 02, SAFETY CONCRETE FILLED GALVANIZED STEEL BOLLARD WITH STAINLESS STEEL COVER - SEE DRAWING A00-004 FOR DETAILS.
N25 : FACILITY NAME SIGN - SEE SIGNAGE DRAWINGS FOR DETAILS, AND CIVIL DRAWINGS FOR LOCATION.

IFT DESIGN
NOT FOR CONSTRUCTION

| NO. | DATE | MODIFICATION | DRAWN | CHKD. | APPRVD. |
|---|---|---|---|---|---|
| 1 | 5/17/24 | ADDENDUM 1 | N.M | S.A | J.B |

REVISIONS

| | |
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| DESIGNED | JB |
| DRAWN | NM |
| CHECKED | SA |
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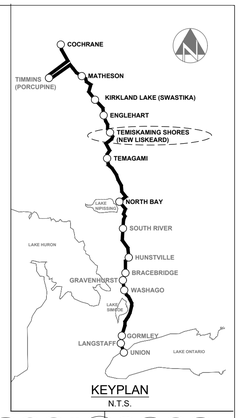
Ontario Northland

GANNETT FLEMING

NORTHEAST PASSENGER RAIL SERVICE
ONTARIO, CANADA
REINSTATED STATIONS (PACKAGE 1 & 2)
TEMISKAMING SHORES STATION
ARCHITECTURAL
SITE LAYOUT

| | |
|---|---|
| CONTRACT NUMBER | 13258 |
| SCALE | 1:500 |
| DATE | 03/18/2024 |
| DRAWING NUMBER | A08-001 |
| SHEET | 53 |
| OF | 173 |

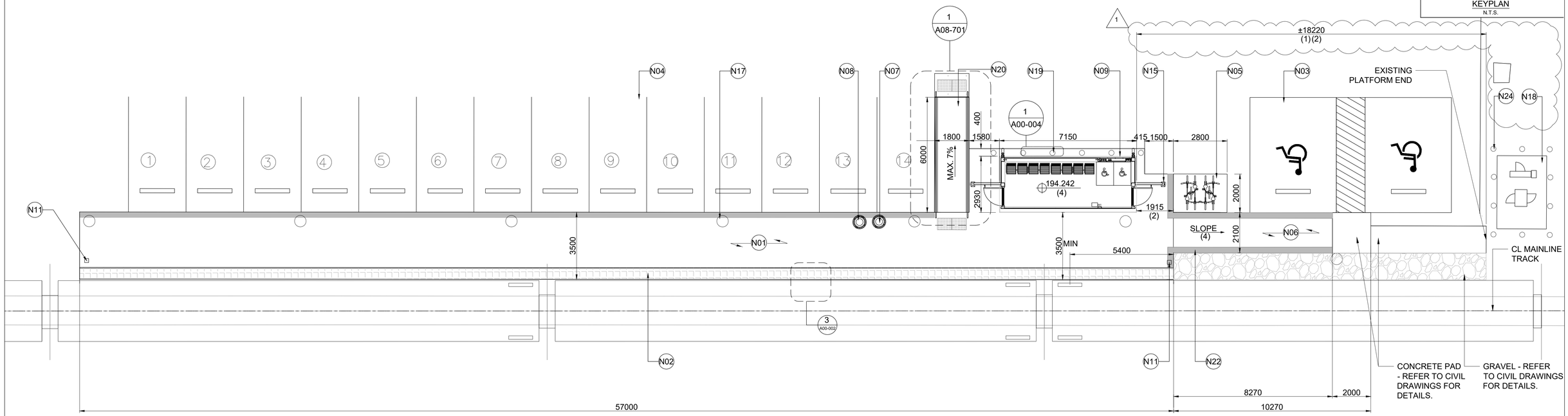
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CREATED: 2024-05-17
MODIFIED: 2024-05-17 13:40




KEYPLAN
N.T.S.

## METRIC

ALL DIMENSIONS SHOWN ARE IN MILLIMETERS AND ELEVATIONS ARE IN METERS.
(1) TO BE VERIFIED ON SITE .
(2) TO FACE OF THE SHELTER`S CONCRETE CURB
(3) FACE OF THE BUILDING TO FACE OF THE SHELTER`S CONCRETE CURB
(4) SEE CIVIL DWGS FOR ELEVATIONS AND SLOPE




## TEMISKAMING SHORES STATION PLAN

SCALE 1:100

0 1 2 3 4m

**KEYNOTES**

EXISTING:

E01 : EXISTING BENCHES TO REMAIN.
E02 : EXISTING UTILITY CHAMBER.
E03 : EXISTING FLAG POLES.
E04 : EXISTING TRANSFORMER.
E05 : EXISTING FENCE - TYP.
E06 : EXISTING PLANTER TO REMAIN.
E07 : EXISTING BOLLARDS - TYP.
E08 : EXISTING SHED.

DEMOLITION:

D01 : EXISTING BUILDING TO BE DEMOLISHED - SEE STRUCTURAL DRAWINGS FOR DETAILS. (1)
D02 : EXISTING SHED TO BE DEMOLISHED BY OTHERS - SEE CIVIL DRAWINGS FOR DETAIL.
D03 : EXISTING BENCHES TO BE REMOVED AND RETURNED TO ONTC.
D04 : EXISTING PLANTER TO BE REMOVED, STORED AND REINSTALLED AS NEEDED TO FACILITATE THE WORK.
D05 : EXISTING RAMPS AND HANDRAILS TO BE DEMOLISHED.

NEW:

N01 : CONCRETE PLATFORM WITH BROOM FINISH - SEE STRUCTURAL DRAWINGS FOR DETAILS AND CIVIL DRAWINGS FOR ELEVATIONS AND SLOPE.
N02 : TACTILE EDGE - SEE DRAWING A00-002 FOR DETAILS.
N03 : BARRIER-FREE PARKING SPACE - SEE CIVIL DRAWINGS - TYP.
N04 : STANDARD PARKING SPACE - SEE CIVIL DRAWINGS - TYP.
N05 : TWO BIKE STANDS - SEE DRAWING A00-002 FOR DETAILS.
N06 : CONCRETE PAD AT TRANSITION BETWEEN EXISTING AND NEW PLATFORMS - SEE STRUCTURAL DRAWINGS FOR DETAILS AND CIVIL DRAWINGS FOR ELEVATIONS AND SLOPE.
N07 : WASTE RECEPTACLES - SEE DRAWING A00-003 FOR DETAILS.
N08 : SMOKERS RECEPTACLES - SEE DRAWING A00-003 FOR DETAILS.
N09 : PRE-MANUFACTURED PASSENGERS` SHELTER - TO BE INSTALLED BY GENERAL CONTRACTOR. GENERAL CONTRACTOR TO COORDINATE SITE PREPARATION AND INSTALLATION REQUIREMENTS WITH SHELTER`S MANUFACTURER.
N10 : ONTC BACKLIT TOTEM - SEE SIGNAGE DRAWINGS FOR DETAILS, AND CIVIL DRAWINGS FOR LOCATION. (1)
N11 : END OF PLATFORM SIGN - SEE SIGNAGE DRAWINGS FOR DETAILS.
N12 : NEW BENCHES - BY OTHERS.
N13 : ASPHALT SIDE WALK - SEE CIVIL DRAWINGS FOR DETAILS.
N14 : GUARDRAIL - SEE DRAWING A10-701 FOR DETAILS.
N15 : AUTOMATIC DOOR OPERATOR PUSH BUTTON, TO BE INSTALLED ON THE SIDE OF SHELTER CLOSE TO THE BARRIER-FREE PARKING - TO BE COORDINATED WITH THE SHELTER MANUFACTURER.
N16 : CURB CUT AT BARRIER-FREE PARKING - SEE CIVIL DRAWINGS FOR DETAILS.
N17 : LIGHT POLES - SEE ELECTRICAL DRAWINGS FOR DETAILS.
N18 : ELECTRICAL AND COMMUNICATION PANELS - SEE ELEC. & COMM. DRAWINGS FOR DETAIL.
N19 : TYPE 01, SAFETY STAINLESS STEEL BOLLARD - SEE DRAWING A00-004 FOR DETAILS.
N20 : CONCRETE RAMP WITH BROOM FINISH SEE STRUCTURAL DRAWINGS FOR DETAILS.
N21 : ACCESS GATE - SEE DRAWING A10-701 FOR DETAILS.
N22 : 300mm WIDE PAINTED CONCRETE EDGE -YELLOW COLOUR - SEE SPEC FOR DETAILS.
N23 : NEW CONCRETE UPSTAND - SEE DRAWING A00-003 AND STRUCTURAL DRAWINGS FOR DETAILS.
N24 : TYPE 02, SAFETY CONCRETE FILLED GALVANIZED STEEL BOLLARD WITH STAINLESS STEEL COVER - SEE DRAWING A00-004 FOR DETAILS.
N25 : FACILITY NAME SIGN - SEE SIGNAGE DRAWINGS FOR DETAILS, AND CIVIL DRAWINGS FOR LOCATION. (1)

IFT DESIGN
NOT FOR CONSTRUCTION

| NO. | DATE | MODIFICATION | DRAWN | CHKD. | APPRVD. |
|---|---|---|---|---|---|
| 1 | 5/17/24 | ADDENDUM 1 | N.M | S.A | J.B |

REVISIONS

| | |
|---|---|
| DESIGNED | JB |
| DRAWN | NM |
| CHECKED | SA |
| APPROVED | JB |

Ontario Northland

GANNETT FLEMING

NORTHEAST PASSENGER RAIL SERVICE
ONTARIO, CANADA
REINSTATED STATIONS (PACKAGE 1 & 2)
TEMISKAMING SHORES STATION
ARCHITECTURAL
PLAN

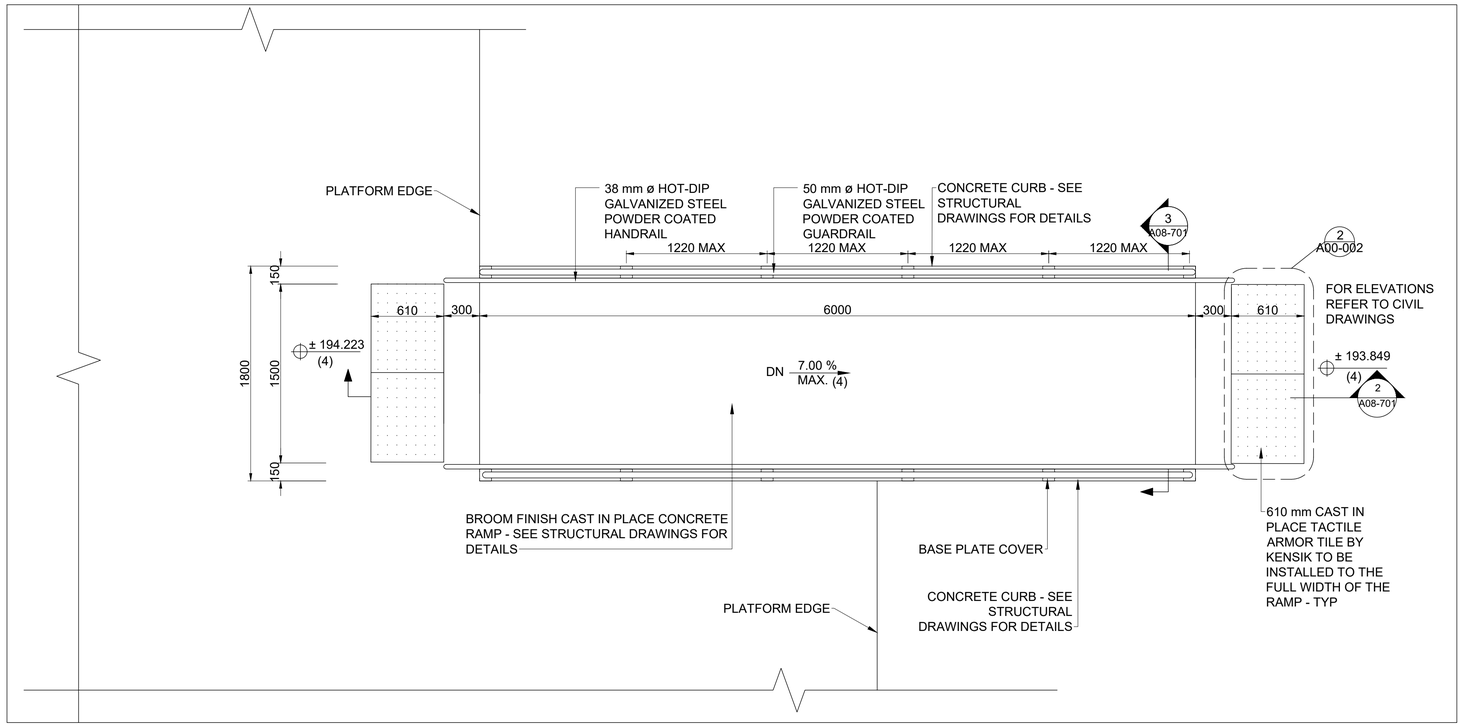
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| SCALE | 1:200 |
| DATE | 03/18/2024 |
| DRAWING NUMBER | A08-201 |
| SHEET | 54 |
| OF | 173 |

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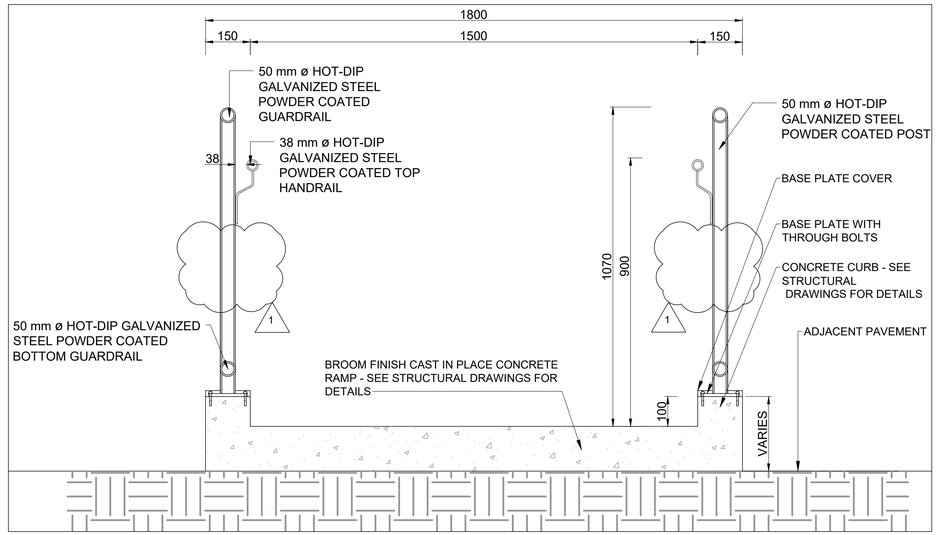
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ONTARIO NORTHLAND PROJECT NUMBER: 073613

METRIC

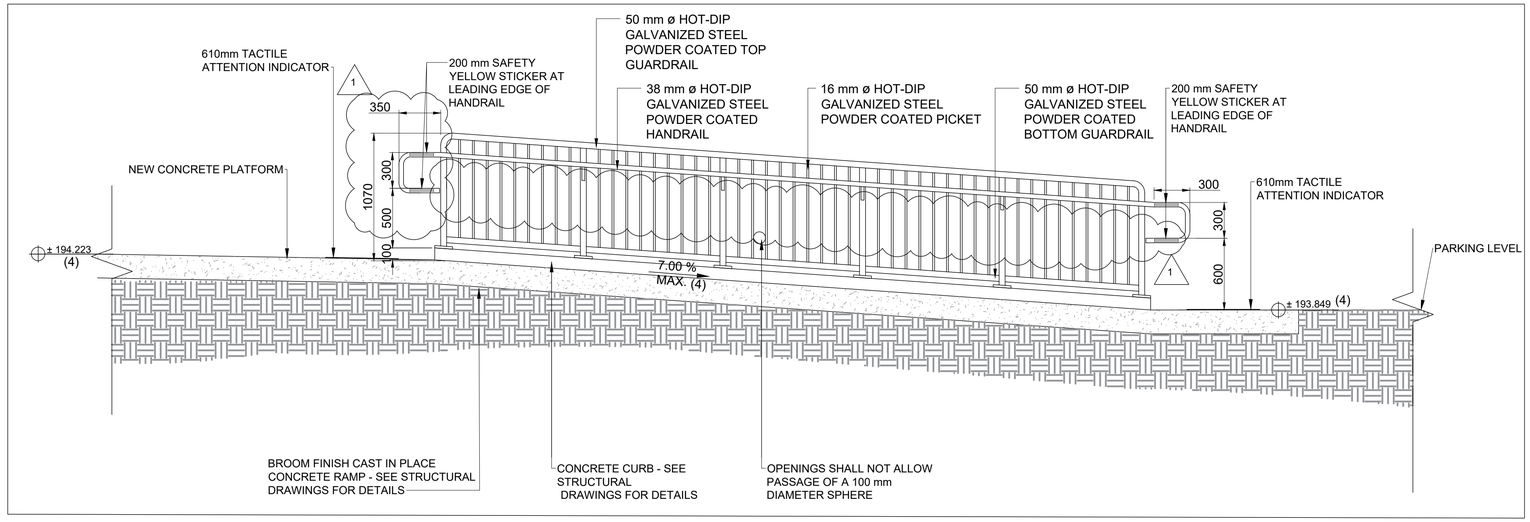
ALL DIMENSIONS SHOWN ARE IN MILLIMETERS AND ELEVATIONS ARE IN METERS.




1 RAMP PLAN DETAIL
SCALE 1:25
0 500 1000 1500 2000 2500mm




3 TYP.RAMP GUARDRAIL SECTION
SCALE 1:10
0 200 400 600 800 1000mm




2 RAMP SECTION DETAIL
SCALE 1:25
0 500 1000 1500 2000 2500mm

(1) TO BE VERIFIED ON SITE .
(2) TO FACE OF THE SHELTER`S CONCRETE CURB
(3) FACE OF THE BUILDING TO FACE OF THE SHELTER`S CONCRETE CURB
(4) SEE CIVIL DWGS FOR ELEVATIONS AND SLOPE

| NO. | DATE | MODIFICATION | DRAWN | CHKD. | APPRVD. |
|---|---|---|---|---|---|
| | | | | | |
| 1 | 5/17/24 | ADDENDUM 1 | N.M | S.A | J.B |

REVISIONS

IFT DESIGN
NOT FOR CONSTRUCTION

| | |
|---|---|
| DESIGNED | JB |
| DRAWN | NM |
| CHECKED | SA |
| APPROVED | JB |

Ontario Northland

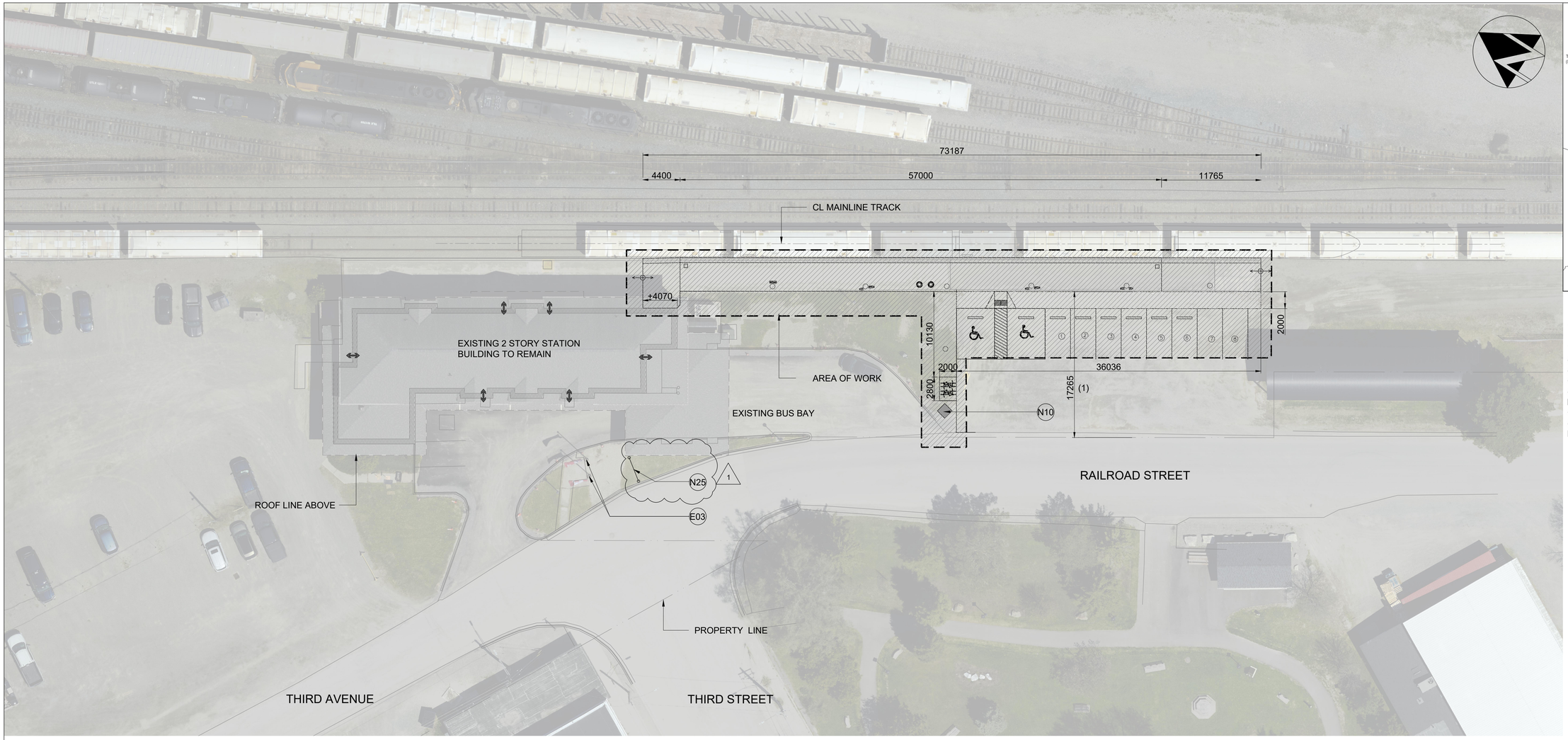
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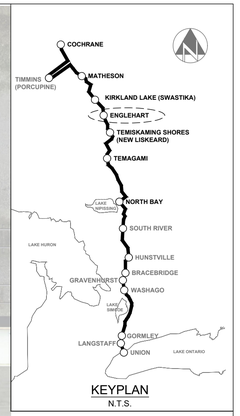
NORTHEAST PASSENGER RAIL SERVICE
ONTARIO, CANADA
REINSTATED STATIONS (PACKAGE 1 & 2)

TEMISKAMING SHORES STATION
ARCHITECTURAL
TYPICAL DETAILS

| | | | |
|---|---|---|---|
| CONTRACT NUMBER | 13258 | | |
| SCALE | AS NOTED | DATE | 03/18/2024 |
| DRAWING NUMBER | A08-701 | | |
| SHEET | 55 | OF | 173 |

PROJECT NUMBER: 073613
ONTARIO NORTHLAND




KEYPLAN
N.T.S.

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## ENGLEHART STATION
## SITE LAYOUT

SCALE 1:250

0 10 20 30 40 50m

**KEYNOTES**

EXISTING:

E01 : EXISTING BENCHES TO REMAIN.
E02 : EXISTING UTILITY CHAMBER.
E03 : EXISTING FLAG POLES.
E04 : EXISTING TRANSFORMER.
E05 : EXISTING FENCE - TYP.
E06 : EXISTING PLANTER TO REMAIN.
E07 : EXISTING BOLLARDS - TYP.
E08 : EXISTING SHED.

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D01 : EXISTING BUILDING TO BE DEMOLISHED - SEE STRUCTURAL DRAWINGS FOR DETAILS. (1)
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N01 : CONCRETE PLATFORM WITH BROOM FINISH - SEE STRUCTURAL DRAWINGS FOR DETAILS AND CIVIL DRAWINGS FOR ELEVATIONS AND SLOPE.
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N11 : END OF PLATFORM SIGN - SEE SIGNAGE DRAWINGS FOR DETAILS.
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N20 : CONCRETE RAMP WITH BROOM FINISH SEE STRUCTURAL DRAWINGS FOR DETAILS.
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N25 : FACILITY NAME SIGN - SEE SIGNAGE DRAWINGS FOR DETAILS, AND CIVIL DRAWINGS FOR LOCATION. (1)

IFT DESIGN
NOT FOR CONSTRUCTION

| NO. | DATE | MODIFICATION | DRAWN | CHKD. | APPRVD. |
|---|---|---|---|---|---|
| 1 | 5/17/24 | ADDENDUM 1 | N.M | S.A | J.B |

REVISIONS

| | |
|---|---|
| DESIGNED | JB |
| DRAWN | NM |
| CHECKED | SA |
| APPROVED | JB |

Ontario Northland

GANNETT FLEMING

NORTHEAST PASSENGER RAIL SERVICE
ONTARIO, CANADA
REINSTATED STATIONS (PACKAGE 1 & 2)

ENGLEHART STATION
ARCHITECTURAL
SITE LAYOUT

| | | | |
|---|---|---|---|
| CONTRACT NUMBER | 13258 | | |
| SCALE | 1:250 | DATE | 03/18/2024 |
| DRAWING NUMBER | A09-001 | | |
| SHEET | 56 | OF | 173 |

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CREATED: 2024-05-17
MODIFIED: 2024-05-17 13:43

PROJECT NUMBER: 073613
ONTARIO NORTHLAND

**KEYNOTES**

EXISTING:

E01 : EXISTING BENCHES TO REMAIN.
E02 : EXISTING UTILITY CHAMBER.
E03 : EXISTING FLAG POLES.
E04 : EXISTING TRANSFORMER.
E05 : EXISTING FENCE - TYP.
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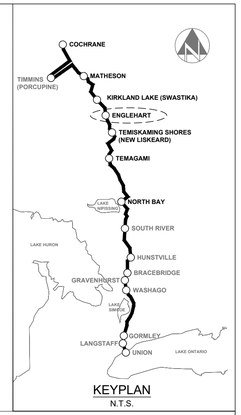
NEW:

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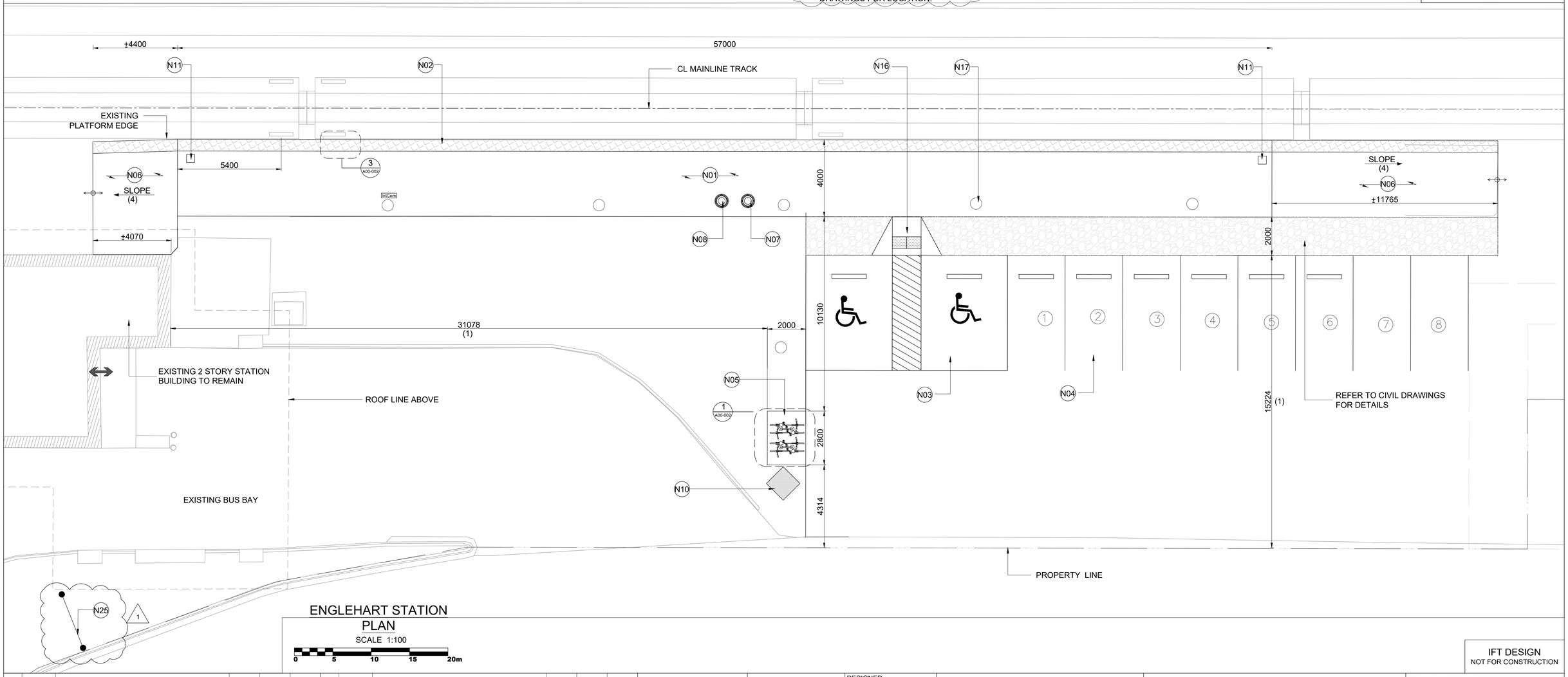
## METRIC

ALL DIMENSIONS SHOWN ARE IN MILLIMETERS AND ELEVATIONS ARE IN METERS.

(1) TO BE VERIFIED ON SITE .
(2) TO FACE OF THE SHELTER`S CONCRETE CURB
(3) FACE OF THE BUILDING TO FACE OF THE SHELTER`S CONCRETE CURB
(4) SEE CIVIL DWGS FOR ELEVATIONS AND SLOPE




KEYPLAN
N.T.S.




## ENGLEHART STATION
## PLAN

SCALE 1:100

0 5 10 15 20m

IFT DESIGN
NOT FOR CONSTRUCTION

| NO. | DATE | MODIFICATION | DRAWN | CHKD. | APPRVD. |
|---|---|---|---|---|---|
| | | | | | |
| | | | | | |
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| | | | | | |
| | | | | | |
| 1 | 5/17/24 | ADDENDUM 1 | N.M | S.A | J.B |

REVISIONS

| | |
|---|---|
| DESIGNED | JB |
| DRAWN | NM |
| CHECKED | SA |
| APPROVED | JB |

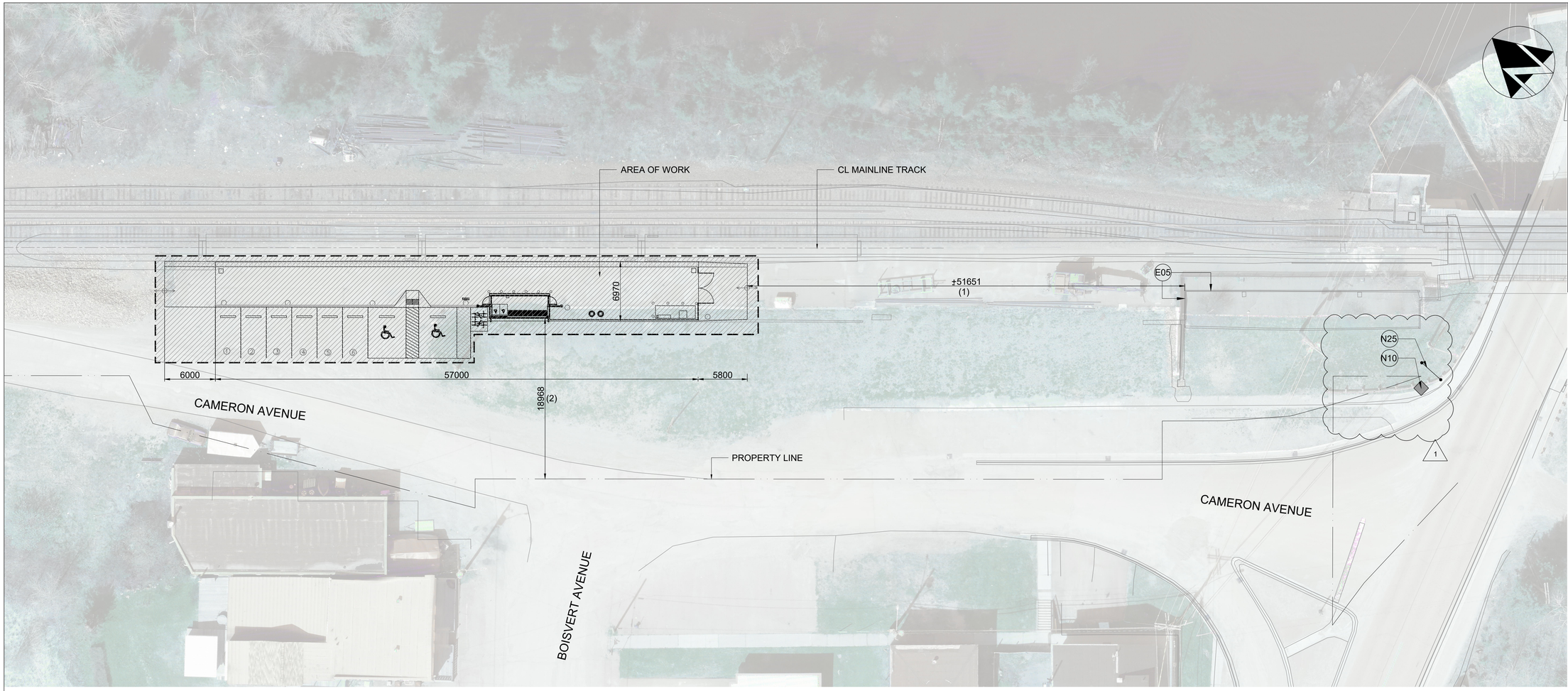
Ontario Northland
GANNETT FLEMING

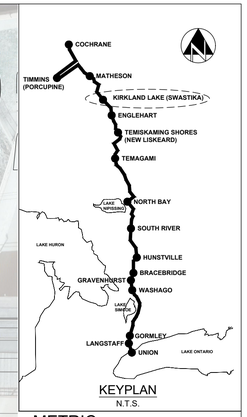
NORTHEAST PASSENGER RAIL SERVICE
ONTARIO, CANADA
REINSTATED STATIONS (PACKAGE 1 & 2)
ENGLEHART STATION
ARCHITECTURAL
PLAN

| | | | |
|---|---|---|---|
| CONTRACT NUMBER | 13258 | | |
| SCALE | 1:100 | DATE | 03/18/2024 |
| DRAWING NUMBER | A09-201 | | |
| SHEET | 57 | OF | 173 |

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CREATED: 2024-05-17
MODIFIED: 2024-05-17 13:43

PROJECT NUMBER: 073613
ONTARIO NORTHLAND




KEYPLAN
N.T.S.

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# KIRKLAND LAKE - SWASTIKA STATION
# SITE LAYOUT

SCALE 1:250

0 10 20 30 40 50m

**KEYNOTES**

EXISTING:

E01 : EXISTING BENCHES TO REMAIN.
E02 : EXISTING UTILITY CHAMBER.
E03 : EXISTING FLAG POLES.
E04 : EXISTING TRANSFORMER.
E05 : EXISTING FENCE - TYP.
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N17 : LIGHT POLES - SEE ELECTRICAL DRAWINGS FOR DETAILS.
N18 : ELECTRICAL AND COMMUNICATION PANELS - SEE ELEC. & COMM. DRAWINGS FOR DETAIL.
N19 : TYPE 01, SAFETY STAINLESS STEEL BOLLARD - SEE DRAWING A00-004 FOR DETAILS.
N20 : CONCRETE RAMP WITH BROOM FINISH SEE STRUCTURAL DRAWINGS FOR DETAILS.
N21 : ACCESS GATE - SEE DRAWING A10-701 FOR DETAILS.
N22 : 300mm WIDE PAINTED CONCRETE EDGE -YELLOW COLOUR - SEE SPEC FOR DETAILS.
N23 : NEW CONCRETE UPSTAND - SEE DRAWING A00-003 AND STRUCTURAL DRAWINGS FOR DETAILS.
N24 : TYPE 02, SAFETY CONCRETE FILLED GALVANIZED STEEL BOLLARD WITH STAINLESS STEEL COVER - SEE DRAWING A00-004 FOR DETAILS.
N25 : FACILITY NAME SIGN - SEE SIGNAGE DRAWINGS FOR DETAILS, AND CIVIL DRAWINGS FOR LOCATION. (1)

IFT DESIGN
NOT FOR CONSTRUCTION

| NO. | DATE | MODIFICATION | DRAWN | CHKD. | APPRVD. |
|---|---|---|---|---|---|
| 1 | 5/17/24 | ADDENDUM 1 | N.M | S.A | J.B |

REVISIONS

DESIGNED JB
DRAWN NM
CHECKED SA
APPROVED JB

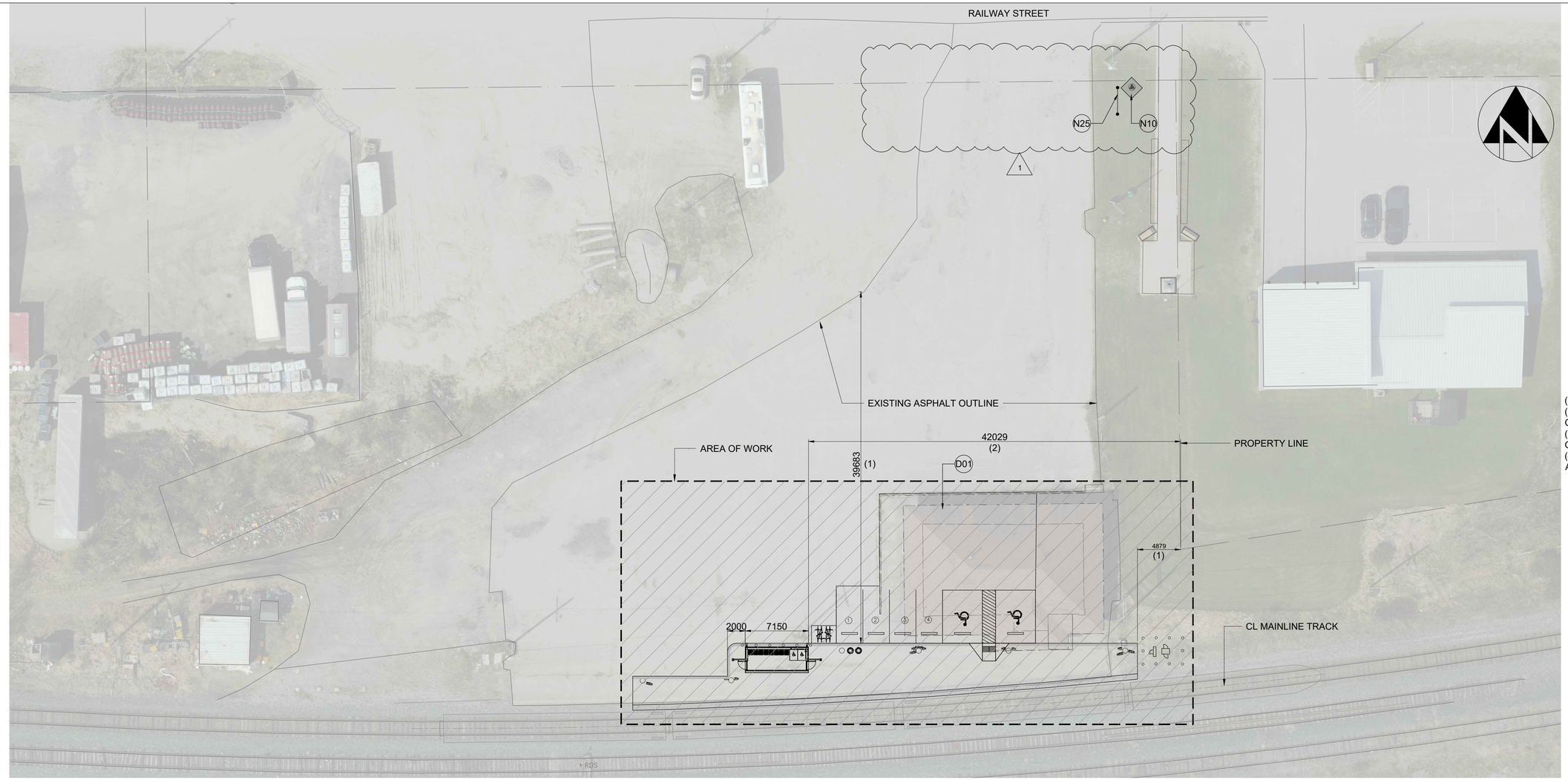
Ontario Northland
GANNETT FLEMING

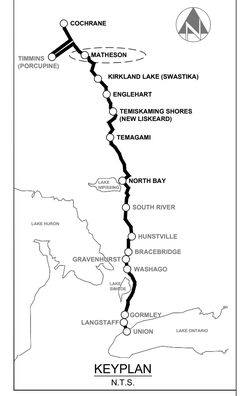
NORTHEAST PASSENGER RAIL SERVICE
ONTARIO, CANADA
REINSTATED STATIONS (PACKAGE 1 & 2)

KIRKLAND LAKE - SWASTIKA STATION
ARCHITECTURAL
SITE LAYOUT

CONTRACT NUMBER 13258
SCALE 1:250
DATE 03/18/2024
DRAWING NUMBER A10-001
SHEET 58 OF 173

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CREATED: 2024-05-17
MODIFIED: 2024-05-17 13:52




KEYPLAN
N.T.S.

## METRIC

ALL DIMENSIONS SHOWN ARE IN MILLIMETERS AND ELEVATIONS ARE IN METERS.

(1) TO BE VERIFIED ON SITE .
(2) TO FACE OF THE SHELTER`S CONCRETE CURB
(3) FACE OF THE BUILDING TO FACE OF THE SHELTER`S CONCRETE CURB
(4) SEE CIVIL DWGS FOR ELEVATIONS AND SLOPE

## MATHESON STATION SITE LAYOUT

SCALE 1:250

0 10 20 30 40 50m

**KEYNOTES**

EXISTING:

E01 : EXISTING BENCHES TO REMAIN.
E02 : EXISTING UTILITY CHAMBER.
E03 : EXISTING FLAG POLES.
E04 : EXISTING TRANSFORMER.
E05 : EXISTING FENCE - TYP.
E06 : EXISTING PLANTER TO REMAIN.
E07 : EXISTING BOLLARDS - TYP.
E08 : EXISTING SHED.

DEMOLITION:

D01 : EXISTING BUILDING TO BE DEMOLISHED - SEE STRUCTURAL DRAWINGS FOR DETAILS. 1
D02 : EXISTING SHED TO BE DEMOLISHED BY OTHERS - SEE CIVIL DRAWINGS FOR DETAIL.
D03 : EXISTING BENCHES TO BE REMOVED AND RETURNED TO ONTC.
D04 : EXISTING PLANTER TO BE REMOVED, STORED AND REINSTALLED AS NEEDED TO FACILITATE THE WORK.
D05 : EXISTING RAMPS AND HANDRAILS TO BE DEMOLISHED.

NEW:

N01 : CONCRETE PLATFORM WITH BROOM FINISH - SEE STRUCTURAL DRAWINGS FOR DETAILS AND CIVIL DRAWINGS FOR ELEVATIONS AND SLOPE.
N02 : TACTILE EDGE - SEE DRAWING A00-002 FOR DETAILS.
N03 : BARRIER-FREE PARKING SPACE - SEE CIVIL DRAWINGS - TYP.
N04 : STANDARD PARKING SPACE - SEE CIVIL DRAWINGS - TYP.
N05 : TWO BIKE STANDS - SEE DRAWING A00-002 FOR DETAILS.
N06 : CONCRETE PAD AT TRANSITION BETWEEN EXISTING AND NEW PLATFORMS - SEE STRUCTURAL DRAWINGS FOR DETAILS AND CIVIL DRAWINGS FOR ELEVATIONS AND SLOPE.
N07 : WASTE RECEPTACLES - SEE DRAWING A00-003 FOR DETAILS.
N08 : SMOKERS RECEPTACLES - SEE DRAWING A00-003 FOR DETAILS.
N09 : PRE-MANUFACTURED PASSENGERS` SHELTER - TO BE INSTALLED BY GENERAL CONTRACTOR. GENERAL CONTRACTOR TO COORDINATE SITE PREPARATION AND INSTALLATION REQUIREMENTS WITH SHELTER`S MANUFACTURER.
N10 : ONTC BACKLIT TOTEM - SEE SIGNAGE DRAWINGS FOR DETAILS, AND CIVIL DRAWINGS FOR LOCATION. 1
N11 : END OF PLATFORM SIGN - SEE SIGNAGE DRAWINGS FOR DETAILS.
N12 : NEW BENCHES - BY OTHERS.
N13 : ASPHALT SIDE WALK - SEE CIVIL DRAWINGS FOR DETAILS.
N14 : GUARDRAIL - SEE DRAWING A10-701 FOR DETAILS.
N15 : AUTOMATIC DOOR OPERATOR PUSH BUTTON, TO BE INSTALLED ON THE SIDE OF SHELTER CLOSE TO THE BARRIER-FREE PARKING - TO BE COORDINATED WITH THE SHELTER MANUFACTURER.
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IFT DESIGN
NOT FOR CONSTRUCTION

| NO. | DATE | MODIFICATION | DRAWN | CHKD. | APPRVD. |
|---|---|---|---|---|---|
| | | | | | |
| 1 | 5/17/24 | ADDENDUM 1 | N.M | S.A | J.B |

REVISIONS

| | |
|---|---|
| DESIGNED | JB |
| DRAWN | NM |
| CHECKED | SA |
| APPROVED | JB |

Ontario Northland

GANNETT FLEMING

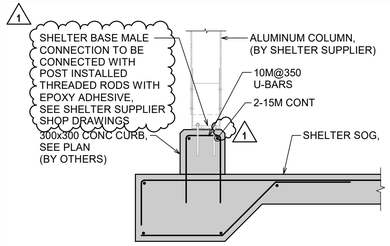
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ONTARIO, CANADA
REINSTATED STATIONS (PACKAGE 1 & 2)

MATHESON STATION
ARCHITECTURAL
SITE LAYOUT

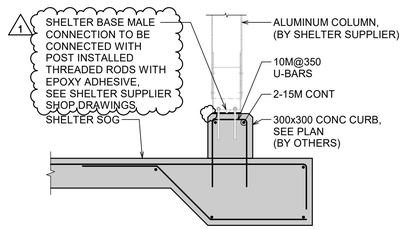
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| DATE | 03/18/2024 |
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| OF | 173 |

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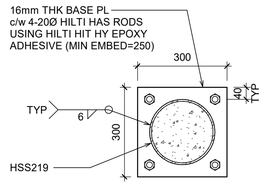
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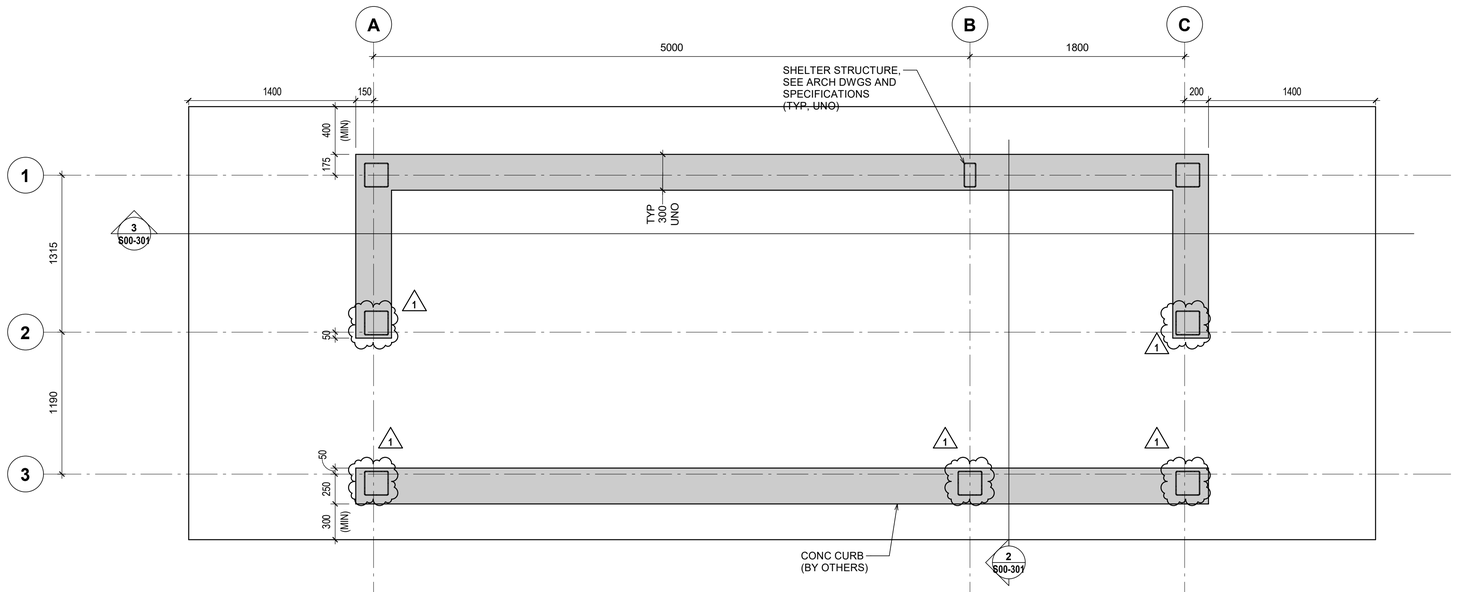

**5 / S00-301 — 200 WIDE COL OFFSET ON CURB**
1 : 20




**4 / S00-301 — 200 WIDE COL CENTRED ON CURB**
1 : 20

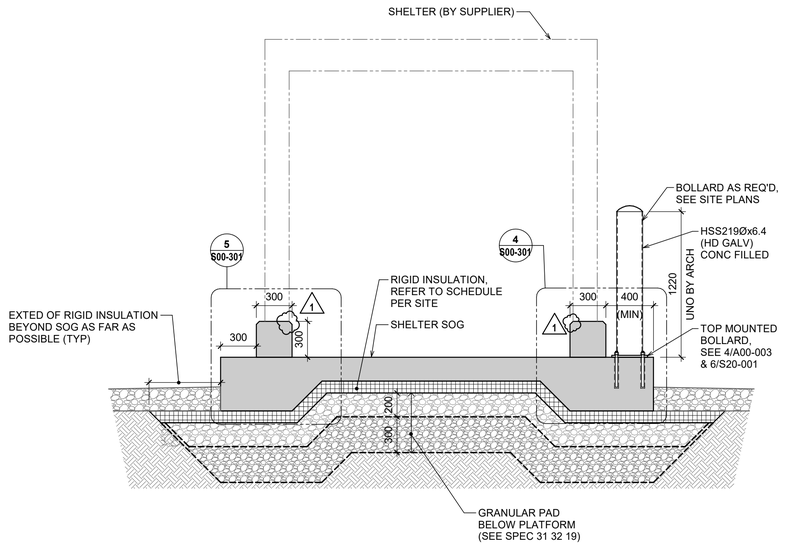



**6 / S00-301 — TYP BOLLARD BASE PL DETAIL**
1 : 10



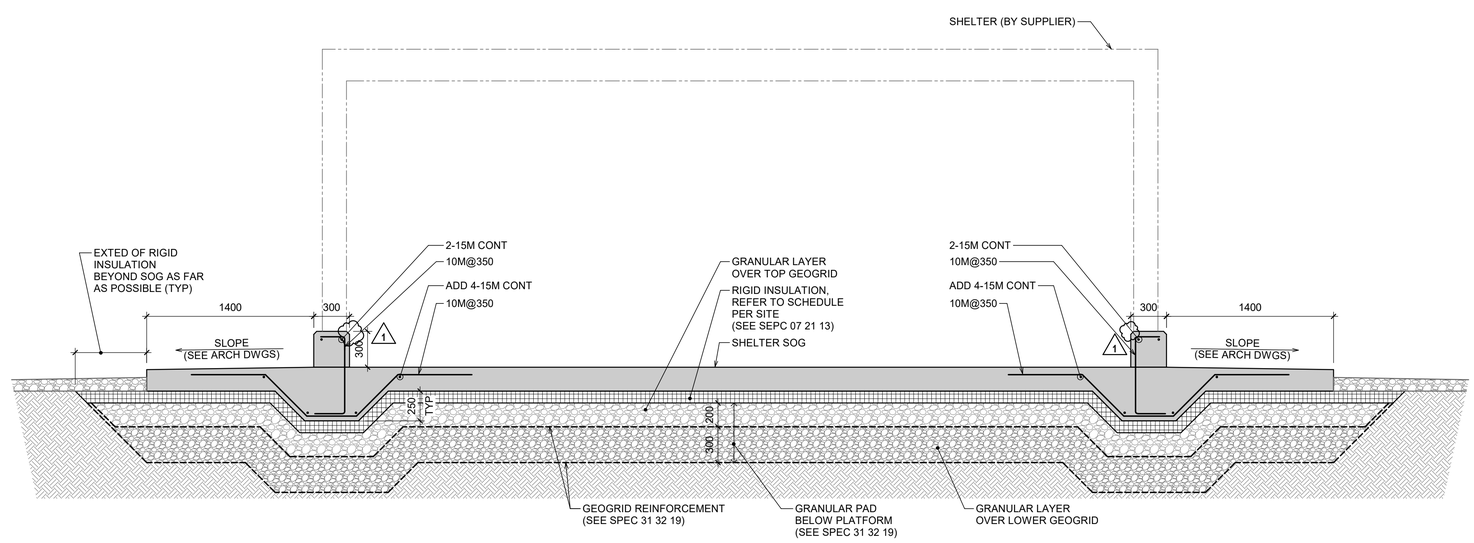

**1 / S00-301 — GROUND FLOOR PLAN-SHLETER**
1 : 25

NOTE:
1. COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL AND CIVIL.




**3 / S00-301 — SECTION**
1 : 25

NOTE:
1. COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL AND CIVIL.




**2 / S00-301 — SECTION**
1 : 25

NOTE:
1. COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL AND CIVIL.

**IFT DESIGN**
NOT FOR CONSTRUCTION

| NO. | DATE | MODIFICATION | DRAWN | CHKD. | APPRVD. |
|---|---|---|---|---|---|
| 1 | 05/17/2024 | ADDENDUM NO.1 | DP | SN | SN |

REVISIONS

DISCLAIMER

| | |
|---|---|
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| CHECKED | SN |
| APPROVED | SN |

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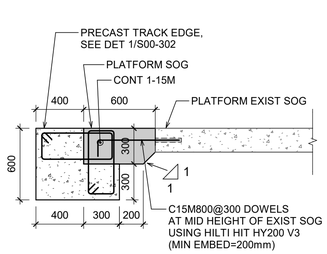
rjc Creative Thinking Practical Results

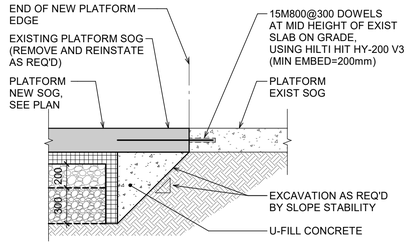

Read Jones Christoffersen Ltd.
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100 University Avenue,
North Tower, Suite 400
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NORTHEAST PASSENGER RAIL SERVICE
ONTARIO, CANADA
REINSTATED STATIONS (PACKAGE 1 & 2)
SHELTER FOUNDATION PLAN & DETAILS

| | | | |
|---|---|---|---|
| CONTRACT NUMBER | 13258 | | |
| SCALE | As indicated | DATE | 03/18/2024 |
| DRAWING NUMBER | S00-301 | | |
| SHEET | 69 | OF | 173 |

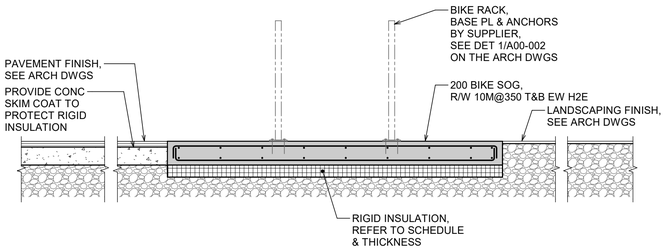

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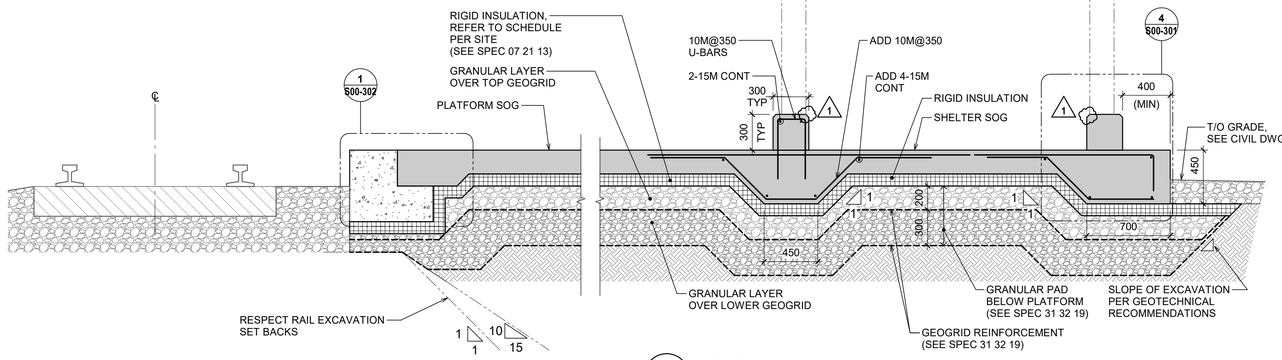




**4 S00-302 SECTION** 1 : 25

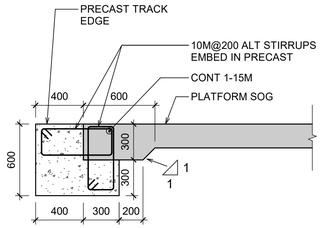
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**5 S00-302 BIKE STORAGE SOG SECTION** 1 : 25




**2 S00-302 SECTION** 1 : 25



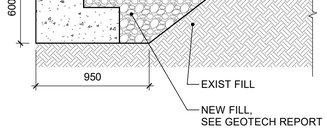

**1 S00-302 SECTION** 1 : 25

| RIGID INSULATION SCHEDULE | | | |
|---|---|---|---|
| SITE | FROST PROTECTION (m) | RIGID INSULATION TYPE | RIGID INSULATION THICKNESS (mm) |
| NORTH BAY | 2 | OWENS CORING FORMULAR C-300 (OR APPROVED EQUIVALENT) | 100 |
| TEMAGAMI | 2.1 | | 100 |
| TEMISKAMING SHORES | 2.2 | | 100 |
| ENGLEHART | 2.3 | | 100 |
| KIRKLAND LAKE | 2.4 | | 100 |
| MATHESON | 2.4 | | 100 |
| COCHRANE | 2.5 | | 125 |

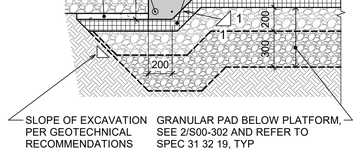
| SLAB ON GRADE "SOG" SCHEDULE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| SLAB ON GRADE | | | | | DESIGN LOADING | | | |
| MARK | AREA DESCRIPTION | THICKNESS | REINFORCEMENT OPTIONS | CONSTRUCTION JOINTS | AREA LOADS SDL | AREA LOADS LL | MAX SAW CUT SPACING | NOTES |
| SOG 1 | PLATFORM | 200 mm | 15M@300 EACH WAY GALVANIZED REINFORCEMENT (INCLUDING ALL ADD BARS) | SEE DETAIL 6/S00-303 FOR INFORMATION | 0.0 kPa | 10.0 kPa | 5000 mm | PROVIDE 10L/m³ DCI CORROSION INHIBITOR |
| SOG 2 | SHELTER | 200 mm | | | 1.0 kPa | 10.0 kPa | 5000 mm | |

**NOTES:**

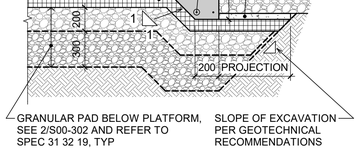
1. PROVIDE BROOM FINISH TO ALL CONCRETE UNLESS NOTED OTHERWISE ON ARCH OR CIVIL DRAWINGS.



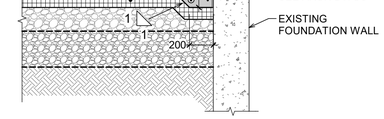

**9 S00-302 SECTION** 1 : 25



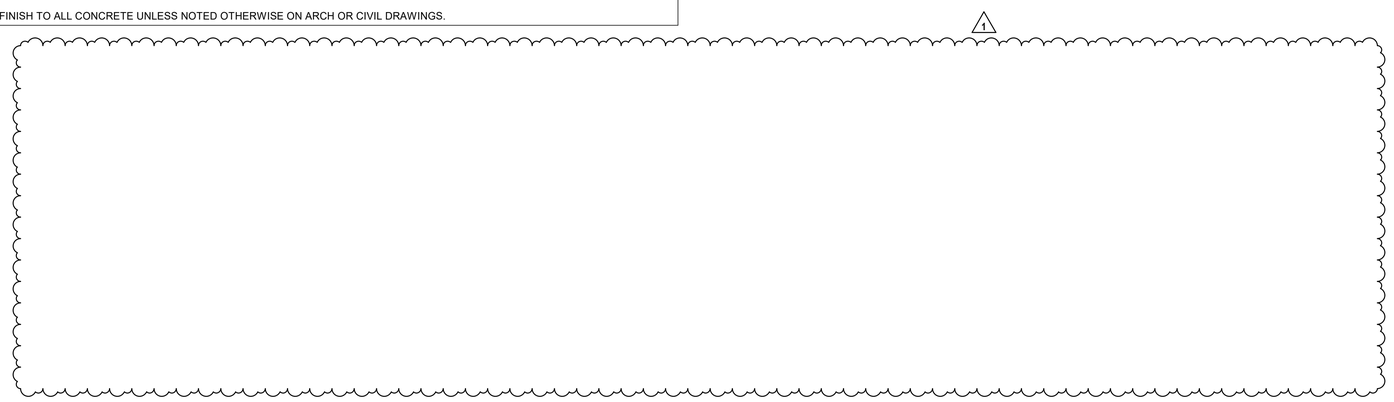

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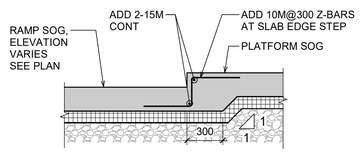



**7 S00-302 SECTION** 1 : 25

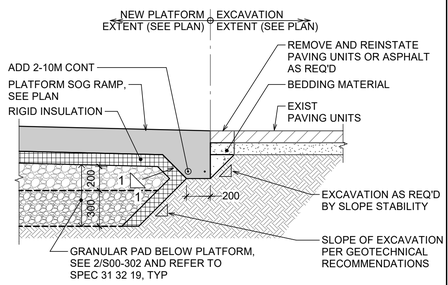



**6 S00-302 SECTION** 1 : 25




**11 S00-302 SECTION** 1 : 25




**10 S00-302 SECTION** 1 : 25

**IFT DESIGN**
NOT FOR CONSTRUCTION

| NO. | DATE | MODIFICATION | DRAWN | CHKD. | APPRVD. |
|---|---|---|---|---|---|
| | | | | | |
| 1 | 05/17/2024 | ADDENDUM NO.1 | DP | SN | SN |

REVISIONS

DISCLAIMER

DESIGNED SN
DRAWN DP
CHECKED SN
APPROVED SN

Ontario Northland

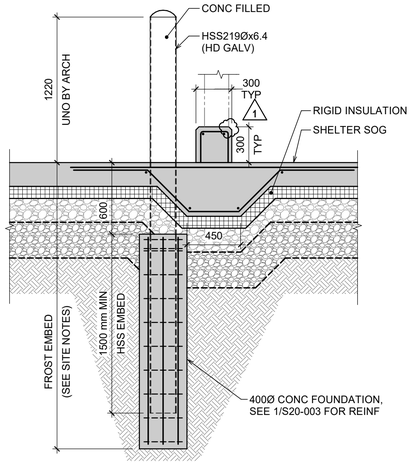
rjc Creative Thinking Practical Results

Read Jones Christoffersen Ltd.
Engineers
rjc.ca
100 University Avenue,
North Tower, Suite 400
Toronto, ON M5J 1V6 Canada
tel 416-977-5335

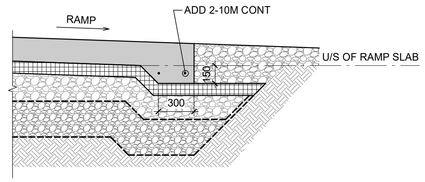
NORTHEAST PASSENGER RAIL SERVICE
ONTARIO, CANADA
REINSTATED STATIONS (PACKAGE 1 & 2)
PLATFORM DETAILS

CONTRACT NUMBER 13258
SCALE As indicated
DATE 03/18/2024
DRAWING NUMBER S00-302
SHEET 70 OF 173

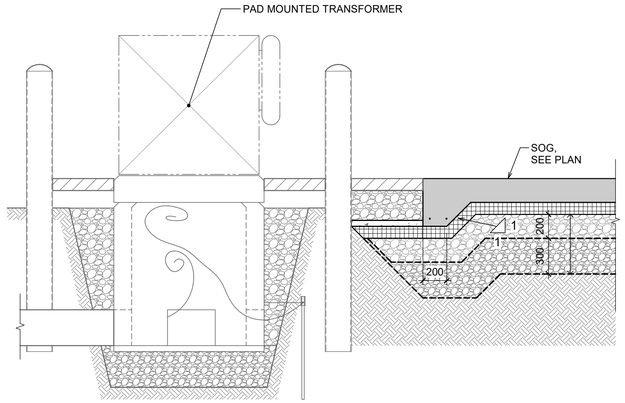
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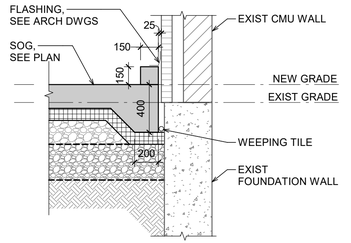

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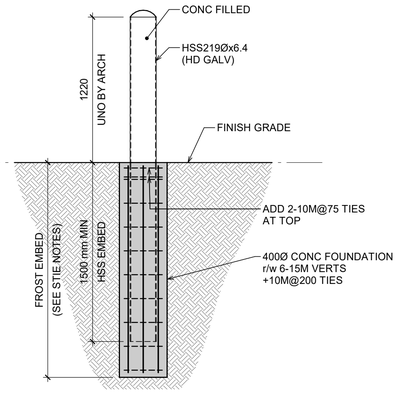

**4 SECTION** S00-303 — 1 : 25



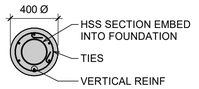

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**2 SECTION** S00-303 — 1 : 25

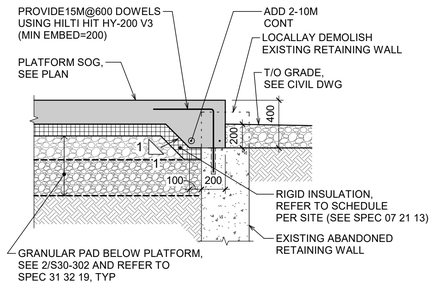



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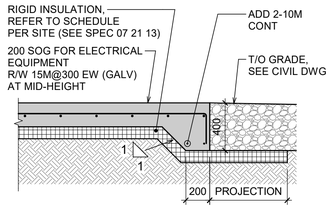



**PLAN**

**1 TYP BOLLARD ON GRADE** S00-303 — 1 : 25

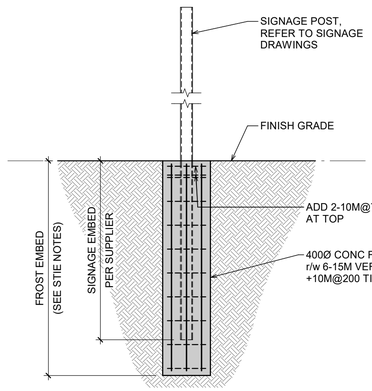



**9 SECTION** S00-303 — 1 : 25

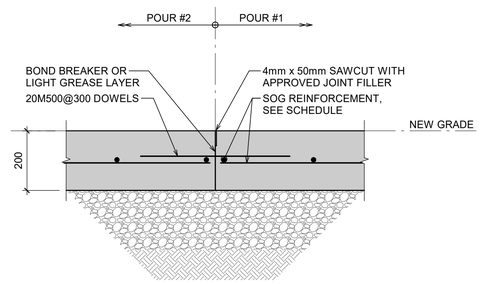



**8 TYP ELECTRICAL EQUIPMENT PAD DETAIL** S00-303 — 1 : 25

NOTE:
1. PROJECTION SHOULD MEET FROST PROTECTION DEPTH, SEE SITE NOTES.




**7 SIGNAGE FOUNDATION DETAIL** S00-303 — 1 : 25




**6 SOG CONSTRUCTION JOINT** S00-303 — 1 : 10

**IFT DESIGN**
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DRAWN DP
CHECKED SN
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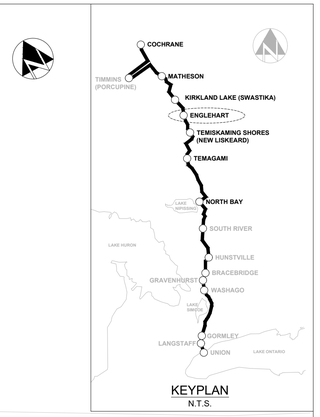
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Engineers
rjc.ca
100 University Avenue,
North Tower, Suite 400
Toronto, ON M5J 1V6 Canada
**tel** 416-977-5335

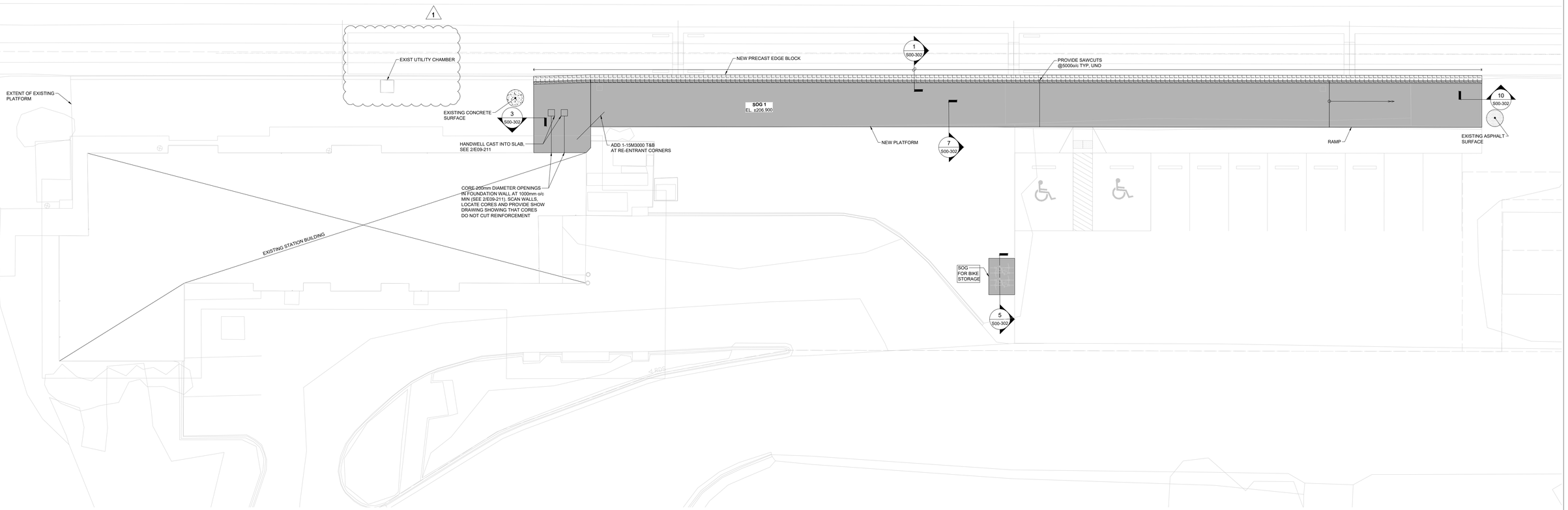
NORTHEAST PASSENGER RAIL SERVICE
ONTARIO, CANADA
REINSTATED STATIONS (PACKAGE 1 & 2)
PLATFORM DETAILS

CONTRACT NUMBER 13258
SCALE As indicated
DATE 03/18/2024
DRAWING NUMBER S00-303
SHEET 71 OF 173

Local File:Autodesk Docs://073613-ONTC-NorthlanderPassengerRail/TOR.130459.0002-ONTC-GN & TYP DET_R23.rvt
Project Number: TOR.130459.0002
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KEYPLAN
N.T.S.




# 1 ENLARGED STATION PLAN

SCALE: 1:150

**NOTES:**

1. REFER TO CIVIL AND ARCHITECTURAL DRAWINGS FOR TOP OF SLAB ELEVATIONS, SLOPES AND DIMENSIONS. NOTIFY RJC DISCREPANCIES BETWEEN STRUCTURAL AND ARCHITECTURAL DRAWINGS.
2. SUBGRADE PREPARATION BELOW THE SLAB ON GRADE IS PER GEOTECHNICAL REPORTS. SUB FLOOR DRAINAGE IS PER THE CIVIL DRAWINGS.

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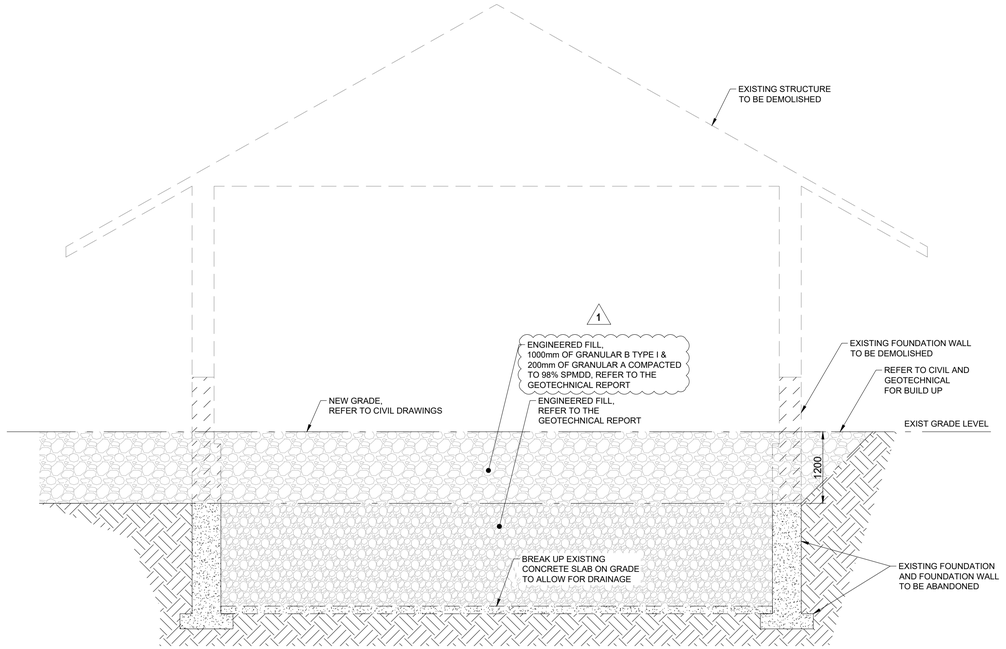
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NORTHEAST PASSENGER RAIL SERVICE
ONTARIO, CANADA
REINSTATED STATIONS (PACKAGE 1 & 2)

ENGLEHART STATION
STRUCTURAL
ENLARGED STATION PLAN

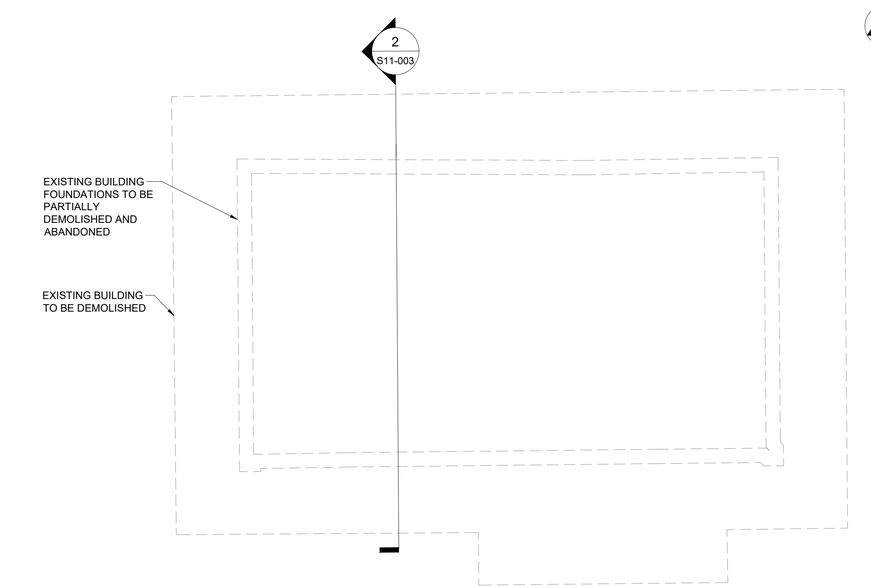
CONTRACT NUMBER 13258
SCALE AS NOTED
DATE 03/18/2024
DRAWING NUMBER S09-002
SHEET 79 OF 173

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MODIFIED: 2024-05-16 17:24



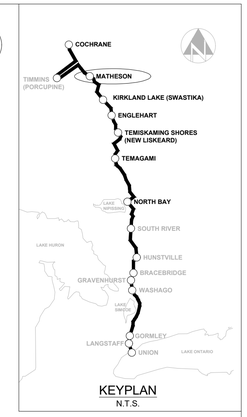

## 2 EXISTING BUILDING DEMOLITION CROSS SECTION

SCALE: 1:50




## 1 DEMOLITION STATION BUILDING PLAN

SCALE: 1:100




KEYPLAN
N.T.S.

**NOTES:**

1. CONTRACTOR TO ENGAGE DEMOLITION ENGINEER FOR THE REMOVAL OF THE BUILDING.

## DEMOLITION OF STRUCTURAL ELEMENTS

1. SEE TEMPORARY WORKS NOTES.
2. THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS AND SPECIFICATIONS FORMING THE TENDER PACKAGE.
3. THE DRAWINGS ILLUSTRATE SCHEMATIC APPROACH TO THE TEMPORARY BRACING OF THE EXISTING STRUCTURE AND IS PREPARED FOR CONTRACTOR CONSIDERATION ONLY. THE CONTRACTOR MAY ADOPT THE ILLUSTRATED APPROACH AT THE CONTRACTOR'S SOLE DISCRETION OR PROPOSE ANY OTHER METHOD THE CONTRACTOR DEEMS APPROPRIATE TO PROVIDE TEMPORARY BRACING, BUT AT NO TIME SHALL THE SAFETY AND INTEGRITY OF THE EXISTING STRUCTURE BE COMPROMISED.
4. THE CONTRACTOR SHALL DESIGN, PROVIDE, CONSTRUCT AND MAINTAIN, REMOVE AND ASSUME FULL AND SOLE RESPONSIBILITY FOR THE TEMPORARY WORKS.
5. SUBMIT SHOP DRAWINGS, DIAGRAMS AND DETAILS SHOWING SEQUENCE OF DEMOLITION WORK AND SUPPORTING STRUCTURES AND UNDERPINNING. SUBMIT CALCULATIONS TO THE CONSULTANT. DRAWINGS AND CALCULATIONS SUBMITTED SHALL BEAR SIGNATURE AND STAMP OF QUALIFIED PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF ONTARIO.
6. THE PROFESSIONAL ENGINEER EMPLOYED TO DESIGN THE TEMPORARY SHORING, BRACING, NEEDLING AND THE SAME ENGINEER SHALL ALSO BE EMPLOYED TO FULLY SUPERVISE THEIR INSTALLATION AND REMOVAL AND SHALL SUBMIT WEEKLY REPORTS TO THE CONSULTANT, AND OWNER REGARDING THIS WORK.
7. THE GENERAL CONTRACTOR MUST EXAMINE DRAWINGS OF ALL DISCIPLINES AND COORDINATE THE STRUCTURAL DEMOLITION WORK TO ASSURE THAT THE ADOPTED SEQUENCE OF DEMOLITION WORK PROVIDES FOR SUBSEQUENT CONSTRUCTION OF ALL ELEMENTS OF THE PROJECT WITHOUT INTERFERENCE.
8. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE STRUCTURAL DEMOLITION WORK WITH OTHER DEMOLITION REQUIRED BY ARCHITECTURAL AND MECHANICAL DISCIPLINES AND ASSIGN COORDINATED SCOPE OF WORK TO THE SUBTRADES.
9. THE EXISTING STRUCTURE SHOWN ON THE DRAWINGS IS BASED ON THE ORIGINAL DRAWINGS AND LIMITED INFORMATION AVAILABLE AT THE TIME OF DESIGN. THE DEMOLITION SCOPE OF WORK SHALL INCLUDE REMOVAL OF ALL STRUCTURAL AND NON-STRUCTURAL ELEMENTS IN THE AREAS MARKED ON DRAWINGS AND AS INDICATED BY THE ARCHITECT.
10. PROTECTION:
    - A. PREVENT MOVEMENT, SETTLEMENT OR DAMAGE OF ELEMENTS OF EXISTING BUILDING TO REMAIN. PROVIDE BRACING, SHORING AS REQUIRED. PROTECT ALL EXISTING SURFACES NOT TO BE RESTORED FROM DAMAGE DURING REMOVAL PROCEDURE. REMOVE OR PROTECT IN PLACE ALL SURFACE- MOUNTED OR PERMANENT ELECTRICAL FIXTURES AND ALL CONDUIT, FIXTURES, EQUIPMENT, ETC. NOT TO BE DEMOLISHED. UPON COMPLETION OF THE REPAIR WORK, REINSTALL ALL EXISTING EQUIPMENT AND FIXTURES DESIGNATED TO REMAIN. MAKE GOOD DAMAGE CAUSED BY DEMOLITION.
    - B. TAKE PRECAUTIONS TO SUPPORT AND, IF SAFETY OF ELEMENTS NOT SLATED FOR DEMOLITION APPEARS TO BE ENDANGERED, CEASE OPERATIONS AND NOTIFY ENGINEER IMMEDIATELY.
    - C. PREVENT DEBRIS FROM BLOCKING SURFACE DRAINAGE SYSTEM, MECHANICAL, AND ELECTRICAL SYSTEMS WHICH MUST REMAIN IN OPERATION.
11. INSPECTION:
    - A. VISIT AND EXAMINE THE SITE AND NOTE ALL CHARACTERISTICS AND FEATURES AFFECTING THE WORK OF THIS SECTION.
    - B. ENSURE ALL SERVICES, WHETHER BURIED, BUILT-IN OR EXPOSED ARE PROPERLY IDENTIFIED AS TO POSITION, TYPE OF SERVICE, SIZE, DIRECTION OF FLOW. SLABS MUST BE SCANNED OR X-RAYED FOR EMBEDDED SERVICES AT REPAIR LOCATIONS PRIOR TO UNDERTAKING THE REPAIR WORK SUCH THAT THESE SERVICES CAN BE RELOCATED. CONTRACTOR WILL BE RESPONSIBLE FOR DAMAGES TO ALL EMBEDDED SERVICES.
    - C. INSPECT MATERIALS, EQUIPMENT, COMPONENTS TO BE RE-USED OR TURNED OVER TO THE OWNER. NOTE THEIR CONDITION AND ADVISE ARCHITECT IN WRITING OF ANY DEFECTS OR CONDITIONS WHICH WOULD AFFECT THEIR REMOVAL AND RE-USE.
12. PREPARATION:
    - A. DO NOT DISRUPT ACTIVE OR ENERGIZED UTILITIES DESIGNATED TO REMAIN UNDISTURBED.
    - B. RELOCATE EXISTING SERVICES PRIOR TO START OF WORK AS REQUIRED, BUT DO NOT AFFECT THE SERVICES OF AREAS NOT UNDER CONSTRUCTION OR ESSENTIAL TO THE ONGOING OPERATION OF THE BUILDING.
    - C. PROTECT ALL SURFACE-MOUNTED FIXTURES FROM DAMAGE.
    - D. IN ALL CASES, EXERCISE ALL REASONABLE CARE DURING REMOVAL OPERATIONS TO AVOID DAMAGING ITEMS TO BE SALVAGED, RE-USED, OR ITEMS THAT ARE NOT PART OF THE SCOPE OF WORK.
13. DEMOLITION, SALVAGE AND DISPOSAL:
    - A. DEMOLISH PARTS OF STRUCTURE TO PERMIT REMEDIAL WORK AS INDICATED.
    - B. REMOVE EXISTING EQUIPMENT, SERVICES, AND OBSTACLES WHERE REQUIRED FOR REFINISHING OR MAKING GOOD OF EXISTING SURFACES, AND REPLACE AS WORK PROGRESSES.
    - C. AT END OF EACH DAY'S WORK, LEAVE WORK IN SAFE CONDITION SO THAT NO PART IS IN DANGER OF CAUSING INJURY OR DAMAGE.
    - D. DEMOLISH TO MINIMIZE DUSTING. KEEP DUSTY MATERIALS WETTED, WHERE POSSIBLE.
    - E. DEMOLISH CONCRETE IN SMALL SECTIONS. CAREFULLY REMOVE AND LOWER HEAVY OR LARGE OBJECTS.
    - F. THE CONTRACTOR IS TO TAKE CARE NOT TO DAMAGE THE SURFACE OF SOUND CONCRETE WHICH IS TO REMAIN THROUGH THE REMOVAL OPERATION. WHERE ANY SUCH DAMAGE IS DONE TO SOUND MATERIAL, IT IS TO BE REPAIRED BY THE CONTRACTOR AT THEIR OWN EXPENSE TO THE APPROVAL OF THE ENGINEER.
    - G. WHERE NEW CONCRETE IS TO BE APPLIED TO EXISTING CONCRETE, THE SURFACE IS TO BE LEFT CLEAN AND SOUND.
    - H. PROVIDE SHORING TO SUPPORT THE SLAB WHEN REMOVALS REDUCE ITS LOAD-CARRYING CAPACITY, AS DIRECTED BY THE ENGINEER. NO PAYMENT WILL BE MADE FOR SUCH SHORING AS IT IS TO BE INCLUDED IN THE COST OF REPAIR AS OUTLINED IN THESE DOCUMENTS.
    - I. DEMOLITION PROCEDURES AND EQUIPMENT SHALL MEET ALL APPLICABLE NOISE-CONTROL BY-LAWS AND REGULATIONS OF THE LOCATION OF THE WORK.
    - J. REFER TO TEMPORARY WORKS AND RENOVATION NOTES FOR ADDITIONAL DRAWINGS TO BE PREPARED UNDER THE DIRECTION OF A SPECIALTY STRUCTURAL ENGINEER. FOR THOSE CONNECTIONS AND COMPONENTS DESIGNED BY THE FABRICATOR. THIS ENGINEER OR THEIR REPRESENTATIVE SHALL VISIT THE SITE TO REVIEW IN PLACE THE CONNECTIONS AND COMPONENTS DESIGNED BY THIS ENGINEER TO SATISFY THEMSELVES THAT THESE CONNECTIONS AND COMPONENTS COMPLY WITH THEIR DESIGN ON THE SHOP DRAWINGS. THIS ENGINEER SHALL PROVIDE A LETTER TO RJC TO THIS EFFECT. THIS ENGINEER SHALL ALSO PROVIDE SEALED SKETCHES FOR ALL FIELD MODIFICATIONS MADE TO THEIR DESIGN.

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NORTHEAST PASSENGER RAIL SERVICE
ONTARIO, CANADA
REINSTATED STATIONS (PACKAGE 1 & 2)
MATHESON STATION
STRUCTURAL
DEMOLITION PLAN & SECTION

CONTRACT NUMBER 13258
SCALE AS NOTED
DATE 03/18/2024
DRAWING NUMBER S11-003
SHEET 84 OF 173

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# SYMBOLS

| SYMBOL | DESCRIPTION |
|---|---|
| | ELECTRICAL CABINET - APPROXIMATELY 1500MM (W) X 1500MM (H) X 400MM (D) NEMA 3R STAINLESS STEEL, FREE STANDING CABINET C/W ADDITIONAL THERMAL INSULATION, ELECTRIC FAN DRIVEN HEATER, THERMOSTAT, EXHAUST FAN, INTERNAL LIGHTING FIXTURE, 100A-24 CIRCUITS-120/240 VAC PANELBOARD AND MOUNTED ON THE SIDE OF THE CABINET A HYDRO CHECK METER AND 2.5KVA UPS WITH BATTERIES FOR APPROXIMATELY 4 HRS |
| | COMMUNICATION CABINET, REFER TO COMMUNICATION DRAWINGS T00-004, T00-005 AND T00-006 FOR MORE DETAILS |
| P1 | POLE-MOUNTED LUMINAIRE WITH PHOTOCELL AND POLE FOUNDATION. SEE PHOTOMETRIC LAYOUTS FOR LIGHTING FIXTURES ORIENTATION. |
| P1 P1 | 6M POLE-MOUNTED LIGHTING WITH $180^0$ LUMINAIRE CONFIGURATION. SEE PHOTOMETRIC LAYOUTS FOR LIGHTING FIXTURES ORIENTATION. |
| | 6M POLE-MOUNTED LIGHTING WITH $45^0$ LUMINAIRE CONFIGURATION. SEE PHOTOMETRIC LAYOUTS FOR LIGHTING FIXTURES ORIENTATION. |
| | THREE (3) RPVC CONDUIT STUB-UPS FOR ELECTRICAL OR COMMUNICATIONS /1 |
| | 120/240V DIRECT CONNECTION C/W DISCONNECT SWITCH TO EQUIPMENT AS NOTED |
| GND | GROUND BUS |
| HHE-XX | HANDHOLE. - "HHE" INDICATES HANDHOLE ELECTRICAL; - "HHC" INDICATES HANDHOLE COMMUNICATION; - "XX" INDICATES SEQUENTIAL NUMBER |
| PTZ | CCTV |
| P | SPEAKER |
| IntCom | INTERCOM |
| PC | PHOTO CELL |
| | GROUND TESTING WELL |
| G | BARE COPPER CONDUCTOR BURIED OR EMBEDDED IN CONCRETE |
| H | HYDRO SERVICE FEEDER. NEGOTIATION BETWEEN THE CONTRACTOR AND HYDRO TO DETERMINE IF IT IS OVERHEAD LINE, UNDERGROUND OR COMBINATION OF BOTH |
| E | ELECTRICAL CONDUIT ROUTING IN DUCTBANK WITH 3 X 53MM RPVC FOR ELECTRICAL |
| C | COMMUNICATION CONDUIT ROUTING IN DUCTBANK WITH 3 X 53MM RPVC FOR COMMUNICATIONS, SECURITY, ACCESS AND DATA |

# ABBREVIATIONS

AC - AC ALTERNATING CURRENT
AFF - ABOVE FINISHED FLOOR
AFG - ABOVE FINISHED GRADE
ATS - AUTOMATIC TRANSFER SWITCH
BAS - BUILDING AUTOMATED SYSTEM
BBH - BASED BOARD HEATER
BFG - BELOW FINISHED GRADE
C - CELING MOUNTED
CT - CURRENT TRANSFORMER
CCT - CIRCUIT
DC - DIRECT CURRENT
DS - DISCONNECT SWITCH
DWG - DRAWING
EM - EMERGENCY
E.O. - ELECTRICALLY OPERATED
EMT - ELECTRICAL METALLIC TUBING
EQUP- EQUIPMENT
FA - FIRE ALARM
GFI - GROUND FAULT INTERRUPTER
GND - GROUND
HP - HORSEPOWER
HH - HAND HOLE (HAND WELL)
I/O - INPUT/OUTPUT
IG - ISOLATED GROUND
JB - JUNCTION BOX
kV - KILOVOLT
kW - KILOWATT
LED - LIGHT EMITTING DIODE
LTG - LIGHTING
MCC - MOTOR CONTROL CENTER
MDB - MAIN DISTRIBUTION BOARD
M.O. - MANUALLY OPERATED
MTD - MOUNTED
N.C. - NORMALLY CLOSE
NIC - NOT IN CONTRACT
N.O. - NORMALLY OPEN
NTS - NOT TO SCALE
PLC - PROGRAMMABLE LOGIC CONTROLLER
PNL - PANEL
R - RAIN TIGHT
R.I. - ROUGH-IN ONLY
RM - ROOM
RGS - RIGID GALVANIZED STEEL
RPVC- RIGID PVC DUCT
SW - SWITCH
U/G - UNDERGROUND
UPS - UNINTERRUPTED POWER SYSTEM
WP - WEATHERPROOF
WG - WIRE GUARD
WT - WATER TIGHT
XFMR- TRANSFORMER
XP - EXPLOSION PROOF

# GENERAL NOTES

1. READ AND UNDERSTAND FULL SET OF CONTRACT DOCUMENTS.
2. THE LOCATIONS AND DETAILED LAYOUTS OF POWERED EQUIPMENT ITEMS SHOWN ON THE ELECTRICAL DRAWINGS ARE APPROXIMATE ONLY. THIS INFORMATION IS GOVERNED BY THE FOLLOWING DRAWINGS: MECHANICAL - 'M' SERIES DRAWINGS, ARCHITECTURAL - 'A' SERIES DRAWINGS, STRUCTURAL - "S" SERIES DRAWINGS.
3. ALL ELECTRICAL SYSTEMS HEREIN ARE TO BE CONSIDERED AS GOVERNED BY THE REQUIREMENTS OF THE LATEST EDITION OF ONTARIO ELECTRICAL SAFETY CODE "OESC", THE LATEST EDITION OF ONTARIO BUILDING CODE "OBC", CSA STANDARDS FOR INSTALLATION AND TESTING REQUIREMENTS AND THE ELECTRICAL SAFETY AUTHORITY (ESA). IT IS THE CONTRACTOR RESPONSIBILITY TO ENSURE CONFORMANCE WITH ALL APPLICABLE CODES AND SPECIFICATIONS.
4. ONLY CSA/ULC MARKED EQUIPMENT AND MATERIALS CAN BE USED FOR THE PROJECT.
5. CONFIRM ON SITE THE FINAL LOCATION OF ALL EQUIPMENT PRIOR TO INSTALLATION WITH THE OWNER/SITE REPRESENTATIVE.
6. ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT SHALL BE MOUNTED 200mm (MIN.) AFF ON CHANNEL OR CONCRETE BASE.
7. ALL LIGHTING AND RECEPTACLES WIRING TO BE MINIMUM #12 AWG COPPER, 600V, R90 XLPE INSULATION. - ALL CONTROL WIRING TO BE MINIMUM #14 AWG COPPER, 600V, R90 XLPE INSULATION. - ALL LOW VOLTAGE WIRING AS RECOMMENDED BY THE MANUFACTURER. - ALL NETWORK DATA WIRING AS RECOMMENDED BY THE MANUFACTURER.
8. CONDUIT ROUTING IS SHOWN DIAGRAMMATICALLY. CONTRACTOR SHALL DETERMINE THE MOST EFFICIENT ROUTING UNDER ACTUAL FIELD CONDITIONS. JUNCTION BOXES, FITTINGS, ETC, ARE NOT SHOWN FOR CLARITY BUT ARE THE RESPONSIBILITY OF THE CONTRACTOR.
9. ANY PENETRATION TO THE FIRE RATED WALL SHALL BE SEALED WITH PROPER FIRE STOPPING.
10. BY THE END OF PROJECT ALL CONDUIT OR OTHER EQUIPMENT OPENINGS SHALL BE CAPPED AND SEALED.
11. SUBMIT TO AUTHORITIES HAVING JURISDICTION NECESSARY NUMBER OF DRAWINGS AND SPECIFICATIONS FOR EXAMINATION AND APPROVAL PRIOR TO COMMENCEMENT OF WORK.
12. PAY ALL ASSOCIATED FEES RELATED TO PERMITS, FEES AND INSPECTION.
13. NOTIFY PROJECT ENGINEER OF ANY CHANGES REQUIRED BY ELECTRICAL SAFETY AUTHORITY OR OTHER AUTHORITIES.
14. FURNISH CERTIFICATES OF ACCEPTANCE FROM ELECTRICAL SAFETY AUTHORITY AND OTHER AUTHORITIES HAVING JURISDICTION TO PROJECT ENGINEER ON COMPLETION OF WORK.
15. SAFETY DISCONNECTS, STARTERS, AND CONTACTORS WILL BE SUPPLIED BY THIS CONTRACTOR. INSTALL AND WIRE LINE SIDE CONNECTIONS OF MECHANICAL EQUIPMENT COMPLETE.
16. THIS CONTRACTOR TO PROVIDE ISOLATION DISCONNECTS FOR ALL EQUIPMENT SUPPLIED BY OTHER DIVISIONS. PROVIDE RAIN TIGHT EQUIPMENT WHERE APPLICABLE.
17. ANY PENETRATION TO WALL ABOVE OR BELOW GROUND SHALL BE SEALED WITH PROPER SEALING MATERIAL.
18. UNDERGROUND CONDUITS SHALL BE SLOPPED 1/400 AWAY FROM THE BUILDING OR OUTDOOR CABINETS.
19. COMMUNICATION CABINET TO BE PROVIDED BY STATION CONTRACTOR C/W ACCESSORIES, PDUs, FANS, TERMINAL BLOCKS, PATCH PANELS, SURGE PROTECTION AND 4U RACK. COMMUNICATION EQUIPMENT SUCH AS NETWORK SWITCHES, ROUTERS, DOOR CONTROLLER, TO BE INSTALLED BY OTHERS. REFER TO COMMUNICATION DRAWINGS T00-004, T00-005 AND T00-006 FOR MORE INFORMATION.
20. PROVIDE CONCRETE ENCASED DUCT BANKS UNDER ROADS OR AREAS WITH HEAVY VEHICULAR TRAFFIC.
21. HANDWELLS TO BE "DURALTE" MODEL-1015, TIER 22, HEAVY DUTY, POLYOLEFIN BLEND MATERIAL OR APPROVED EQUIVALENT.
22. THE HANDHOLES SPECIFIED IN THE COMMUNICATION DRAWINGS INDICATE HANDHOLES EXCLUSIVELY DESIGNATED FOR COMMUNICATION CABLE BRANCHING AND CONDUIT ARRANGEMENTS. THE ELECTRICAL DRAWINGS COVER ALL PROPOSED HANDHOLES FOR COMMUNICATION AND ELECTRICAL ALONG THE PLATFORMS.
23. FOR CIRCUIT NUMBERS REFER TO THE TYPICAL PANELBOARD SINGLE LINE DRAWING E00-003. CIRCUIT NUMBERS ARE TYPICAL FOR ALL STATIONS.
24. PERFORM COORDINATION AND ARC FLASH STUDY AND PROVIDE WARNING LABLES AS REQUIRED BY THE LAST REVISION OF CSA Z462.

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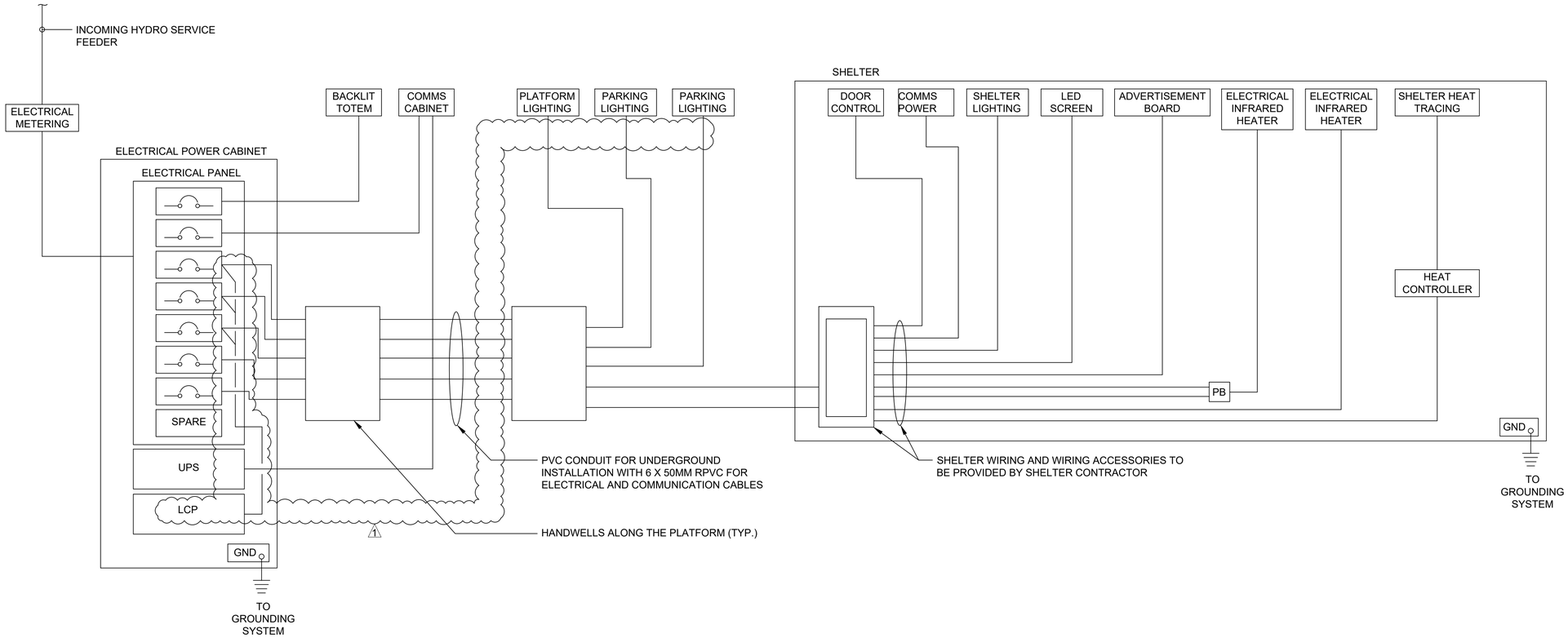
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Ontario Northland
GANNETT FLEMING

NORTHEAST PASSENGER RAIL SERVICE
ONTARIO, CANADA
REINSTATED STATIONS (PACKAGE 1 & 2)
GENERAL
ELECTRICAL
SYMBOLS, ABBREVIATIONS AND GENERAL NOTES

CONTRACT NUMBER 13258
SCALE NTS
DATE 03/18/2024
DRAWING NUMBER E00-001
SHEET 87 OF 173

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NOTES

1. STATION CONTRACTOR SHALL PROVIDE GROUNDING PROTECTION TO THE SHELTER STRUCTURE AS SHOWN ON THE DETAILS.

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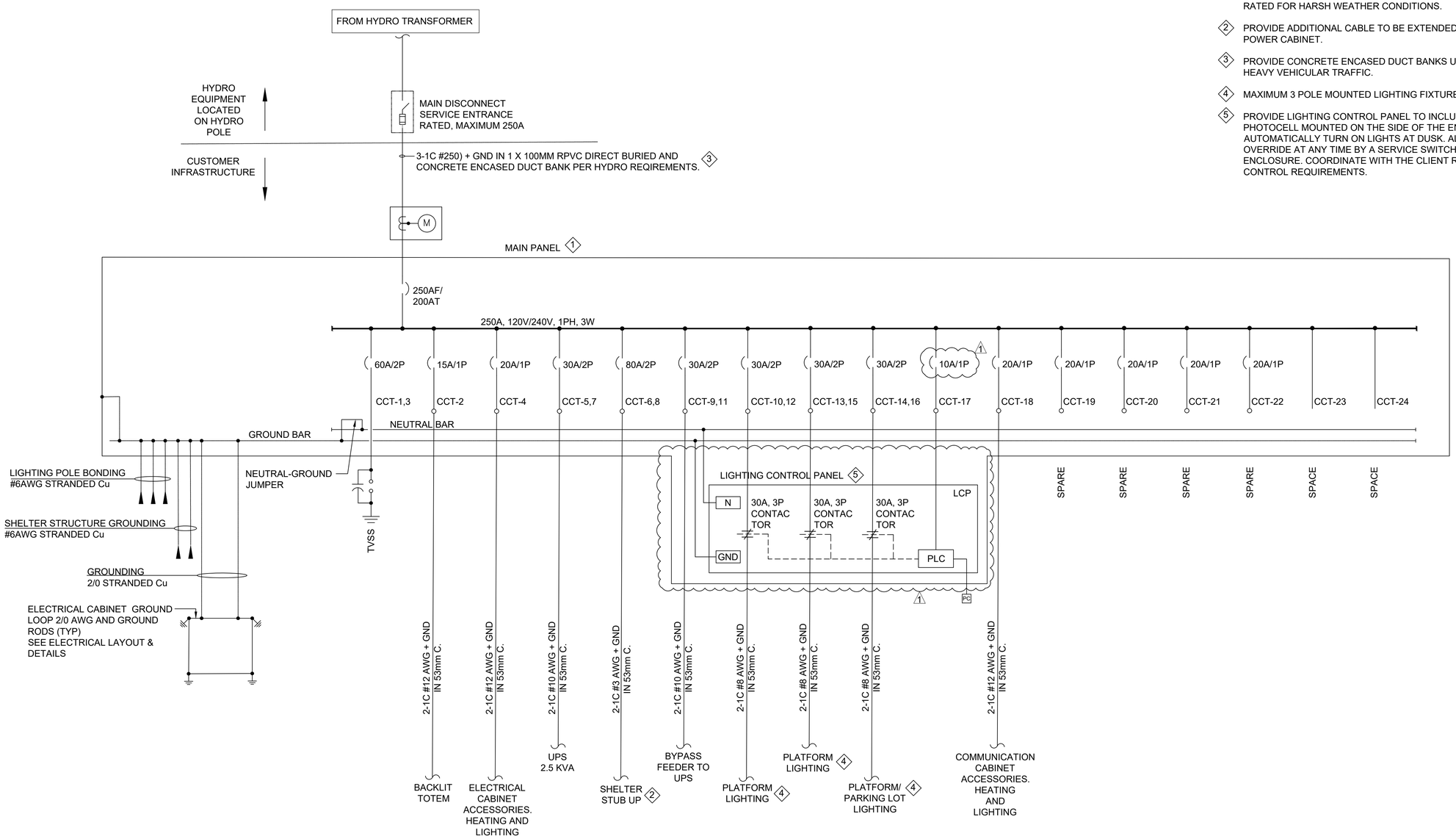
NORTHEAST PASSENGER RAIL SERVICE
ONTARIO, CANADA
REINSTATED STATIONS (PACKAGE 1 & 2)

GENERAL
ELECTRICAL
SYSTEM BLOCK DIAGRAM

| | |
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| CONTRACT NUMBER | 13258 |
| SCALE | AS NOTED |
| DATE | 03/18/2024 |
| DRAWING NUMBER | E00-002 |
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| OF | 173 |

NOTES:

1. ELECTRICAL PANEL, 250A-24CCT - 120/240 VAC, 1PH, 3-WIRE, INSTALLED IN NEMA 3R FREE STANDING STAINLESS STEEL OUTDOOR CABINET C/W ADDITIONAL THERMAL INSULATION, ELECTRIC FAN DRIVEN HEATER, THERMOSTAT, EXHAUST FAN, INTERNAL LIGHTING FIXTURE, MOUNTED ON THE SIDE OF THE CABINET HYDRO CHECK METER AND 2.5KVA UPS WITH BATERIES FOR APPROXIMATELY 4 HRS RATED FOR HARSH WEATHER CONDITIONS.
2. PROVIDE ADDITIONAL CABLE TO BE EXTENDED TO AND TERMINATED AT SHELTERS POWER CABINET.
3. PROVIDE CONCRETE ENCASED DUCT BANKS UNDER ROADS OR AREAS WITH HEAVY VEHICULAR TRAFFIC.
4. MAXIMUM 3 POLE MOUNTED LIGHTING FIXTURES PER CCT.
5. PROVIDE LIGHTING CONTROL PANEL TO INCLUDE PLC, 3 X 3P CONTACTORS AND PHOTOCELL MOUNTED ON THE SIDE OF THE ENCLOSURE. THE PLC SHALL AUTOMATICALLY TURN ON LIGHTS AT DUSK. ALLOW FOR A MANUAL ON/OFF OVERRIDE AT ANY TIME BY A SERVICE SWITCH MOUNTED ON THE SIDE OF THE ENCLOSURE. COORDINATE WITH THE CLIENT REPRESENTATIVE FOR ADDITIONAL CONTROL REQUIREMENTS.




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| 1 | 05/17/2024 | ADDENDUM NO. 1 | OM | SM | SM |

REVISIONS

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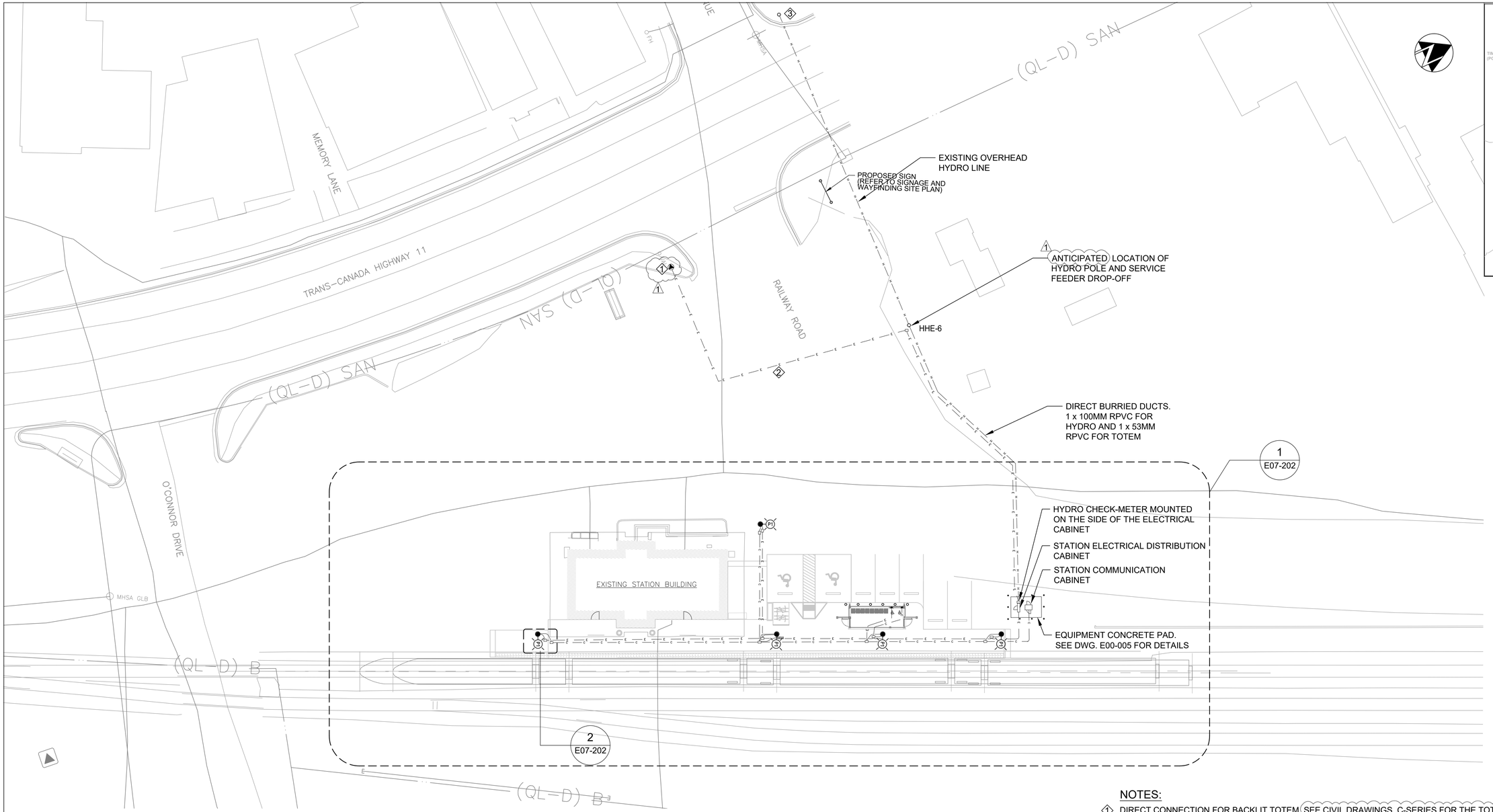
Ontario Northland

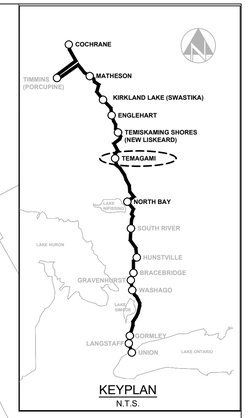
GANNETT FLEMING

NORTHEAST PASSENGER RAIL SERVICE
ONTARIO, CANADA
REINSTATED STATIONS (PACKAGE 1 & 2)
GENERAL
ELECTRICAL
TYPICAL SINGLE LINE DIAGRAM

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| CONTRACT NUMBER | 13258 |
| SCALE | AS NOTED |
| DATE | 03/18/2024 |
| DRAWING NUMBER | E00-003 |
| SHEET | 89 |
| OF | 173 |

ONTARIO NORTHLAND PROJECT NUMBER: 073613




KEYPLAN
N.T.S.

NOTES:

1. DIRECT CONNECTION FOR BACKLIT TOTEM. SEE CIVIL DRAWINGS, C-SERIES FOR THE TOTEM LOCATION.
2. ELECTRICAL CONDUIT ROUTING FOR POWER CONNECTION TO BACKLIT TOTEM. THE CONTRACTOR SHALL PROVIDE A 1 X 53MM RPVC. THE CONTRACTOR TO DETERMINE FINAL ROUTING OF THE DUCTBANK BASED ON THE SITE CONDITIONS. THE DUCTBANK DETAILS ARE AS SHOWN IN DWG E00-005 AS REFERENCE.
3. THE CONTRACTOR SHALL ENGAGE HYDRO ONE, APPLY FOR A NEW SERVICE FEEDER AND COMPLY WITH HYDRO REQUIREMENTS. TYPE OF THE SERVICE FEEDER (OVERHEAD, UNDERGROUND OR COMBINATION OF BOTH) TO BE DETERMINED DURING THE NEGOTIATIONS WITH HYDRO AUTHORITY AND IN COORDINATION WITH THE ONTC REPRESENTATIVE.

SCALE 1:250
0 1 2 3 4 5 10m

IFT DESIGN
NOT FOR CONSTRUCTION

| NO. | DATE | MODIFICATION | DRAWN | CHKD. | APPRVD. |
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| 1 | 05/17/2024 | ADDENDUM NO. 1 | OM | SM | SM |

REVISIONS

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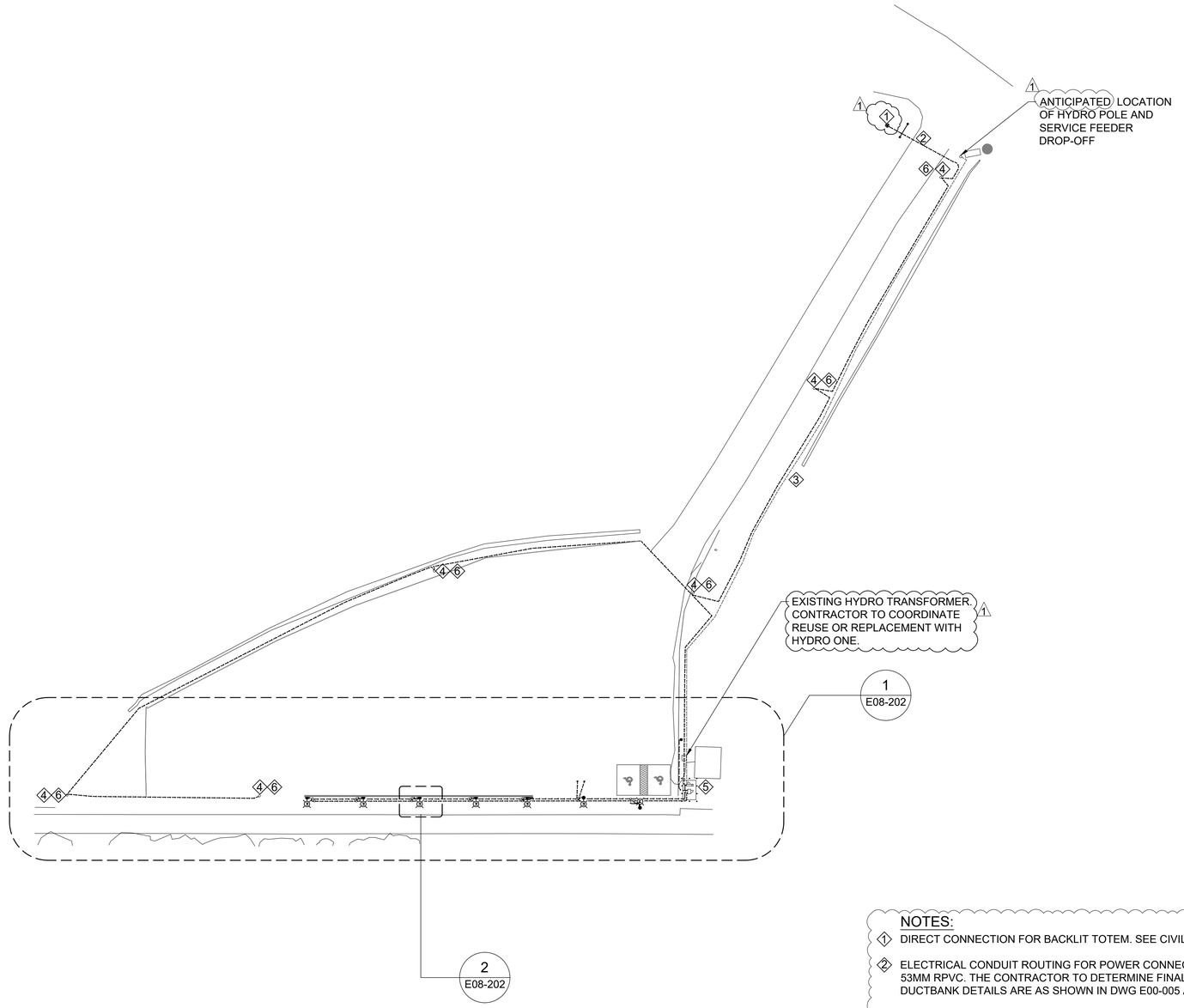
Ontario Northland

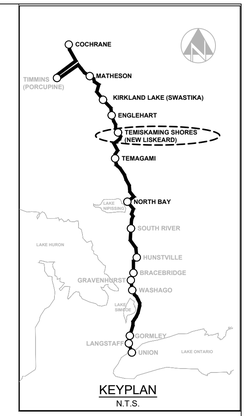
GANNETT FLEMING

NORTHEAST PASSENGER RAIL SERVICE
ONTARIO, CANADA
REINSTATED STATIONS (PACKAGE 1 & 2)
TEMAGAMI STATION
ELECTRICAL
SITE PLAN

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| CONTRACT NUMBER | 13258 |
| SCALE 1:250 | DATE 03/18/2024 |
| DRAWING NUMBER | E07-201 |
| SHEET 98 | OF 173 |

FILE NAME: C:\Users\Vijayakumar\DC\ACCDocs\GANNETT FLEMING INC\073613-ONTC-NorthlanderPassengerRail\Project Files\Sheets\FAC\ELEC\07_Terna\E07-201.dwg
CREATED: 2023-10-21
MODIFIED: 2024-05-17 13:49




KEYPLAN
N.T.S.

NOTES:

1. DIRECT CONNECTION FOR BACKLIT TOTEM. SEE CIVIL DRAWINGS, C-SERIES FOR THE TOTEM LOCATION.
2. ELECTRICAL CONDUIT ROUTING FOR POWER CONNECTION TO BACKLIT TOTEM. THE CONTRACTOR SHALL PROVIDE A 1 X 53MM RPVC. THE CONTRACTOR TO DETERMINE FINAL ROUTING OF THE DUCTBANK BASED ON THE SITE CONDITIONS. THE DUCTBANK DETAILS ARE AS SHOWN IN DWG E00-005 AS REFERENCE.
3. THE CONTRACTOR SHALL ENGAGE HYDRO ONE, APPLY FOR A NEW SERVICE FEEDER AND COMPLY WITH HYDRO REQUIREMENTS. TYPE OF THE SERVICE FEEDER (OVERHEAD, UNDERGROUND OR COMBINATION OF BOTH) TO BE DETERMINED DURING THE NEGOTIATIONS WITH HYDRO AUTHORITY AND IN COORDINATION WITH THE ONTC REPRESENTATIVE.
4. THE CONTRACTOR SHALL REPLACE THE EXISTING CAR PARK POLE MOUNTED LIGHTING FIXTURES WITH TWO FIXTURES IN 120DEG CONFIGURATION. LIGHTING FIXTURES TO BE GALEON-SA6C-740-U-T4W OR APPROVED EQUIVALENT.
5. PROVIDE TWO 30A/2P 240VAC FEEDERS AND ONE ADDITIONAL CONTACTOR IN STATION PANELBOARD TO CONTROL THE EXISTING CAR PARK POLE MOUNTED LIGHTING FIXTURES AND THE TOTEM.
6. PROVIDE TWO 2-1#8 AWG + GND 240VAC FEEDERS IN 53MM RPVC CONDUIT FOR THE EXISTING CAR PARK LIGHTING POLES. PROVIDE ADDITIONAL GROUNDING ROD FOR EVERY THIRD POLE OR EVERY 50 METERS.

SCALE 1:500
0 5 10 15 20m

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| DRAWN | OM |
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| APPROVED | SM |

Ontario Northland

GANNETT FLEMING

NORTHEAST PASSENGER RAIL SERVICE
ONTARIO, CANADA
REINSTATED STATIONS (PACKAGE 1 & 2)

TEMISKAMING SHORES STATION
ELECTRICAL
SITE PLAN

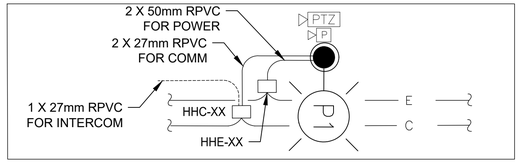
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| SCALE | 1:500 |
| DATE | 03/18/2024 |
| DRAWING NUMBER | E08-201 |
| SHEET | 101 |
| OF | 173 |

FILE NAME: C:\Users\Vvijayakumar\DC\ACCDocs\GANNETT FLEMING INC\073613-ONTC-NorthlanderPassengerRail\Project Files\Sheets\FAC\ELEC\08_Term\E08-201.dwg
CREATED: 2023-10-21 MODIFIED: 2024-05-17 13:59

PROJECT NUMBER: 073613
ONTARIO NORTHLAND

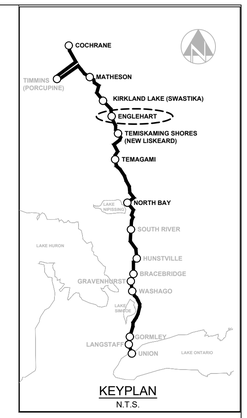
## NOTES:

1. DIRECT CONNECTION FOR BACKLIT TOTEM. SEE CIVIL DRAWINGS, C-SERIES FOR THE TOTEM LOCATION.
2. ELECTRICAL CONDUIT ROUTING FOR POWER CONNECTION TO BACKLIT TOTEM. THE CONTRACTOR SHALL PROVIDE A 1X53MM RPVC DUCTBANK FOR BACKLIT TOTEM. THE CONTRACTOR TO DETERMINE FINAL ROUTING OF THE DUCTBANK BASED ON THE SITE CONDITIONS. THE DUCTBANK DETAILS ARE AS SHOWN IN DWG E00-005 AS REFERENCE.
3. THE POWER FOR ENGLEHART REINSTATED STATION SCOPE IS PROPOSED TO BE FED FROM EXISTING MAIN ELECTRICAL PANEL LOCATED IN THE BASEMENT OF THE STATION BUILDING AT THE PROPERTY. THE CONTRACTOR SHALL COORDINATE WITH THE SITE MANAGER FOR THE FINAL ROUTE OF THE INCOMING POWER AND COMMUNICATION RACEWAYS..THE DUCTBANK DETAILS ARE AS SHOWN IN DWG E00-005 AS REFERENCE.
4. ELECTRICAL AND COMMUNICATION CONDUIT ROUTING FOR ALL INFRASTRUCTURE IN PLATFORM AND PARKING LOT. THE CONTRACTOR SHALL PROVIDE 2X6 RPVC DUCTBANK TO MEET COMMS AND ELECTRICAL REQUIREMENTS. ALL COMMS AND ELECTRICAL SERVICES SHALL BE IN DEDICATED CONDUITS. THE CONTRACTOR SHALL FINALIZE THE FINAL ROUTING OF THE DUCTBANK BASED ON THE SITE CONDITIONS. THE 2X6 DUCTBANK SHALL INCLUDE 3 X 53MM CONDUIT FOR COMMS, 3X53MM FOR POWER.

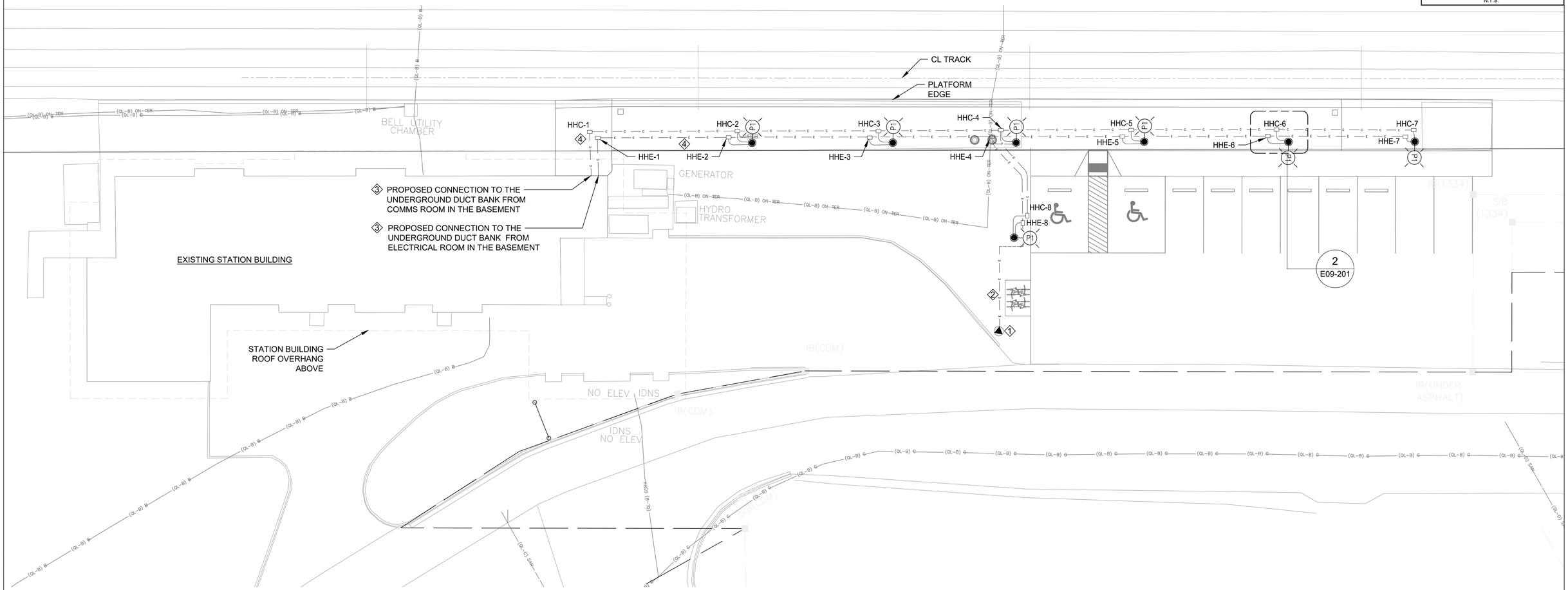



DETAIL
HANDWELL CONNECTION
NTS

2
E09-201




KEYPLAN
N.T.S.




2
E09-201

SCALE 1:150
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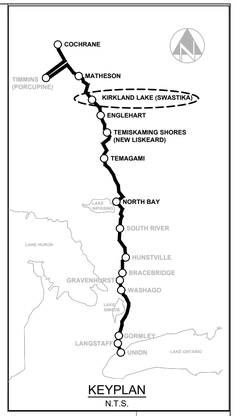
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Ontario Northland
GANNETT FLEMING

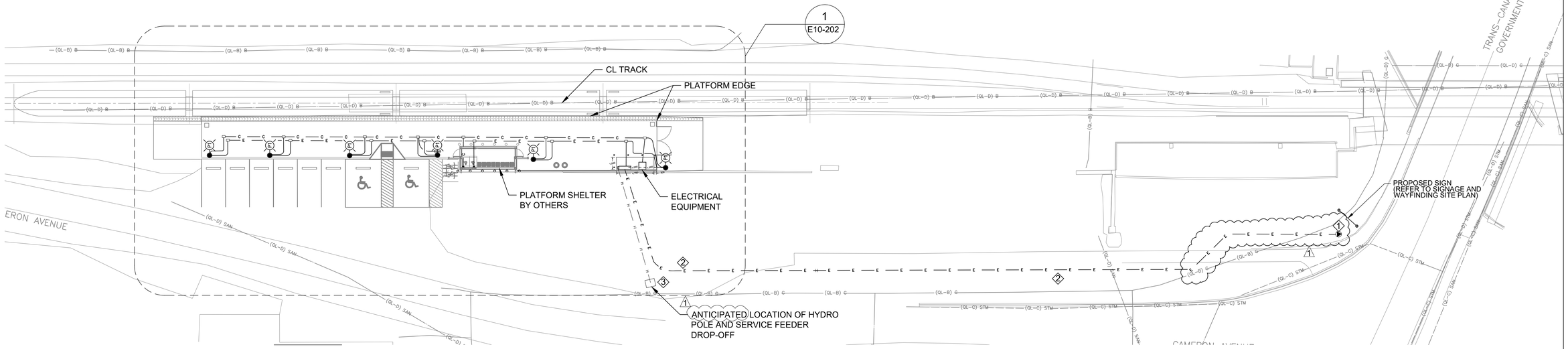
NORTHEAST PASSENGER RAIL SERVICE
ONTARIO, CANADA
REINSTATED STATIONS (PACKAGE 1 & 2)
ENGLEHART STATION
ELECTRICAL
SITE PLAN

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| CONTRACT NUMBER | 13258 |
| SCALE | 1:150 |
| DATE | 03/18/2024 |
| DRAWING NUMBER | E09-201 |
| SHEET | 104 |
| OF | 173 |

FILE NAME: C:\Users\Vijayakumar\DC\ACCDocs\GANNETT FLEMING INC\073613-ONTC-NorthlanderPassengerRail\Project Files\Sheets\PAC\ELEC\09_Eng\E09-201.dwg
CREATED: 2023-10-12
MODIFIED: 2024-05-15 14:19




KEYPLAN
N.T.S.




NOTES:

1. DIRECT CONNECTION FOR BACKLIT TOTEM. SEE CIVIL DRAWINGS, C-SERIES FOR THE TOTEM LOCATION.
2. ELECTRICAL CONDUIT ROUTING FOR POWER CONNECTION TO BACKLIT TOTEM. THE CONTRACTOR SHALL PROVIDE A 1 X 53MM RPVC. THE CONTRACTOR TO DETERMINE FINAL ROUTING OF THE DUCTBANK BASED ON THE SITE CONDITIONS. THE DUCTBANK DETAILS ARE AS SHOWN IN DWG E00-005 AS REFERENCE.
3. THE CONTRACTOR SHALL ENGAGE HYDRO ONE, APPLY FOR A NEW SERVICE FEEDER AND COMPLY WITH HYDRO REQUIREMENTS. TYPE OF THE SERVICE FEEDER (OVERHEAD, UNDERGROUND OR COMBINATION OF BOTH) TO BE DETERMINED DURING THE NEGOTIATIONS WITH HYDRO AUTHORITY AND IN COORDINATION WITH THE ONTC REPRESENTATIVE.

SCALE 1:250
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Ontario Northland

GANNETT FLEMING

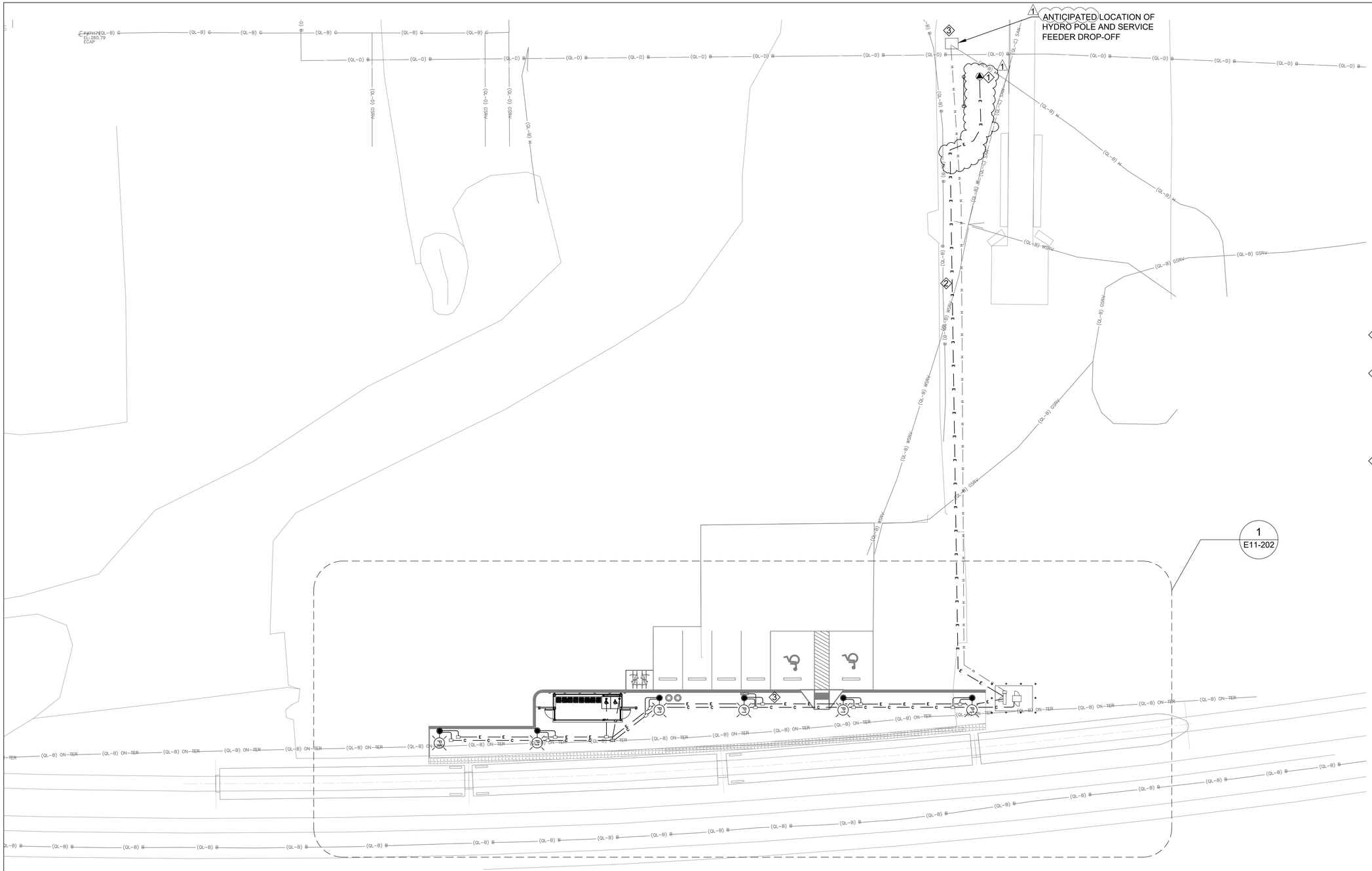
NORTHEAST PASSENGER RAIL SERVICE
ONTARIO, CANADA
REINSTATED STATIONS (PACKAGE 1 & 2)

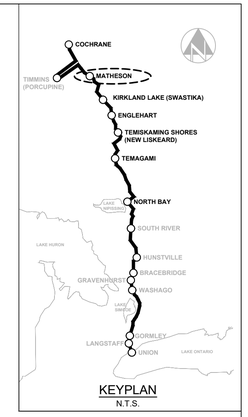
KIRKLAND LAKE - SWASTIKA STATION
ELECTRICAL
SITE PLAN

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| CONTRACT NUMBER | 13258 |
| SCALE | 1:250 |
| DATE | 03/18/2024 |
| DRAWING NUMBER | E10-201 |
| SHEET | 110 |
| OF | 173 |

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CREATED: 2023-10-21
MODIFIED: 2024-05-17 14:00

ONTARIO NORTHLAND PROJECT NUMBER: 073613




KEYPLAN
N.T.S.

## NOTES:

1. DIRECT CONNECTION FOR BACKLIT TOTEM. SEE CIVIL DRAWINGS, C-SERIES FOR THE TOTEM LOCATION.
2. ELECTRICAL CONDUIT ROUTING FOR POWER CONNECTION TO BACKLIT TOTEM. THE CONTRACTOR SHALL PROVIDE A 1 X 53MM RPVC. THE CONTRACTOR TO DETERMINE FINAL ROUTING OF THE DUCTBANK BASED ON THE SITE CONDITIONS. THE DUCTBANK DETAILS ARE AS SHOWN IN DWG E00-005 AS REFERENCE.
3. THE CONTRACTOR SHALL ENGAGE HYDRO ONE, APPLY FOR A NEW SERVICE FEEDER AND COMPLY WITH HYDRO REQUIREMENTS. TYPE OF THE SERVICE FEEDER (OVERHEAD, UNDERGROUND OR COMBINATION OF BOTH) TO BE DETERMINED DURING THE NEGOTIATIONS WITH HYDRO AUTHORITY AND IN COORDINATION WITH THE ONTC REPRESENTATIVE.

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Ontario Northland

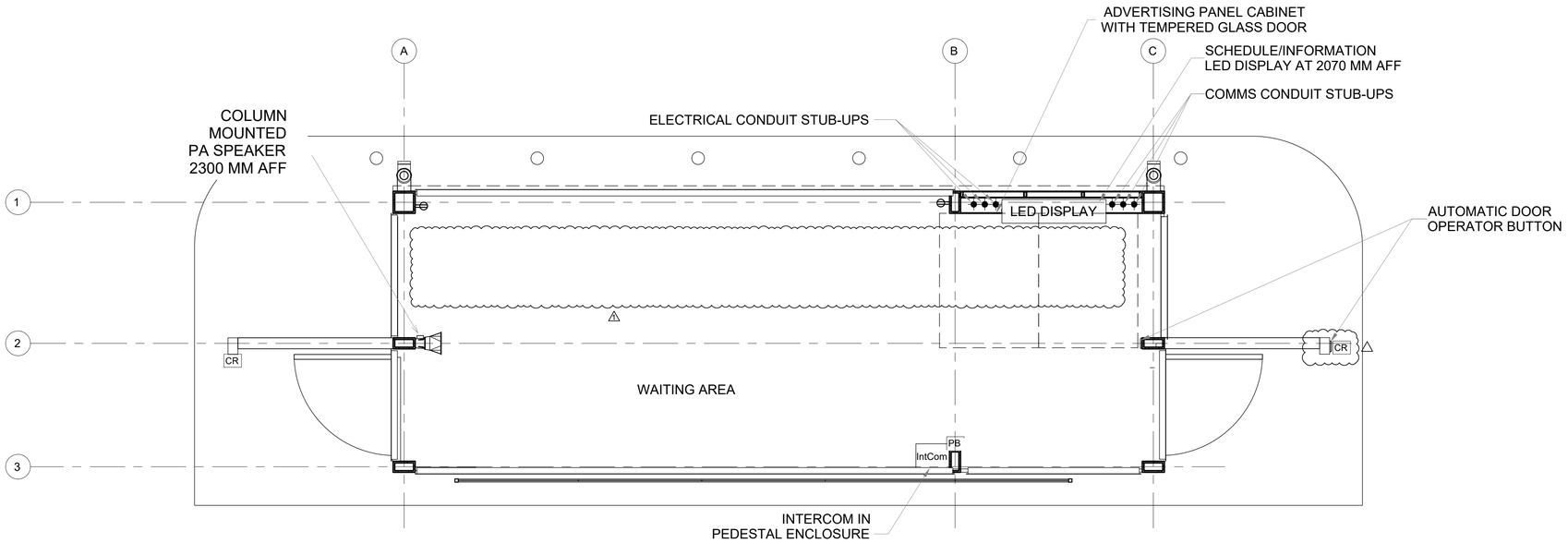
GANNETT FLEMING

NORTHEAST PASSENGER RAIL SERVICE
ONTARIO, CANADA
REINSTATED STATIONS (PACKAGE 1 & 2)

MATHESON STATION
ELECTRICAL
SITE PLAN

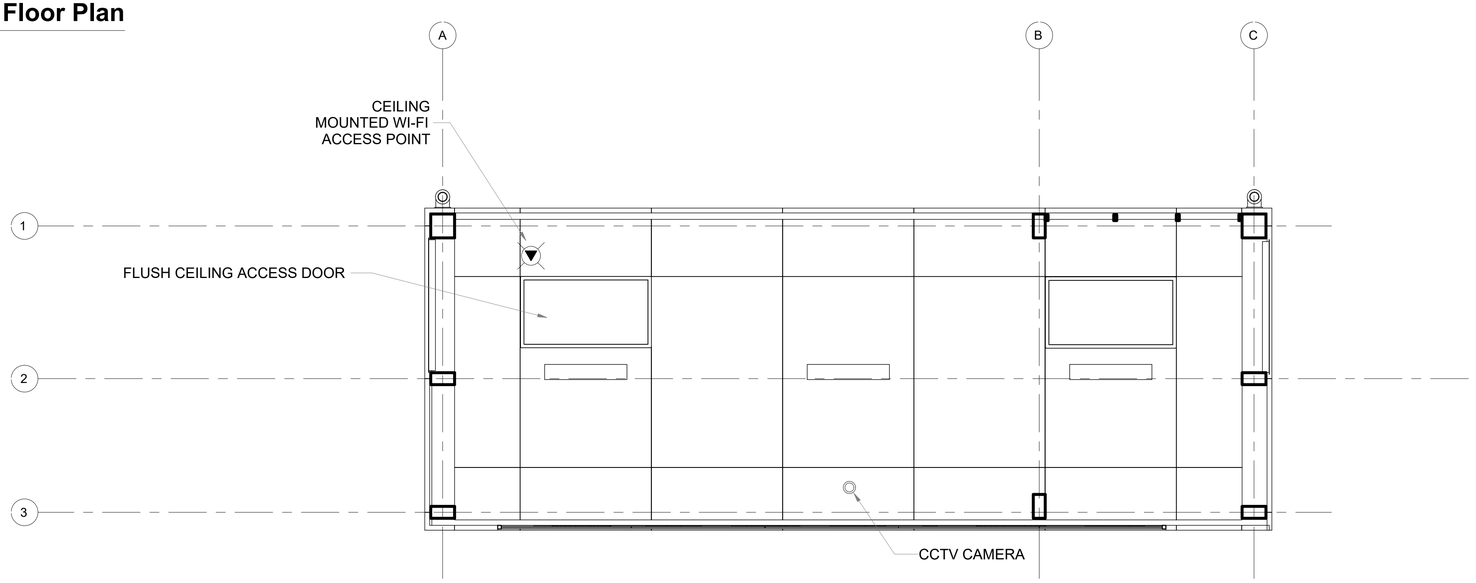
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| CONTRACT NUMBER | 13258 |
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| DATE | 03/18/2024 |
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| SHEET | 113 |
| OF | 173 |

FILE NAME: C:\Users\Vvijayskumar\DC\ACCDocs\GANNETT FLEMING INC\073613-ONTC-NorthlanderPassengerRail\Project Files\Sheets\FAC\ELEC\11_Math\E11-201.dwg
CREATED: 2023-10-21
MODIFIED: 2024-05-17 14:02




## Ground Floor Plan

SCALE: 1 : 25




## Reflected Ceiling Plan

SCALE: 1 : 25

NOTES:

1. SUPPLY ALL INFRASTRUCTURE WORK, ENCOMPASSING, THOUGH NOT RESTRICTED TO, CABLING, CONDUITS, AND ASSOCIATED COMPONENTS NECESSARY FOR THE ESTABLISHMENT OF A FULLY OPERATIONAL INTERCOM SYSTEM, CCTV CAMERAS, PA SPEAKERS, ACCESS CONTROL SYSTEM, WI-FI NETWORK, AND LED DISPLAYS.

2. SUPPLY A PEDESTAL-MOUNTED ENCLOSURE DESIGNED FOR THE PURPOSE OF HOUSING AND SAFEGUARDING THE INTERCOM DEVICE AFFIXED TO THE COLUMN, AS DEPICTED IN THE DRAWING.

3. IT IS RECOMMENDED TO UTILIZE THE ETP-PM-SS STAINLESS STEEL PEDESTAL MOUNT, SPECIFICALLY DESIGNED FOR THE MOUNTING OF ANY VOIP-600 SERIES TALKAPHONE EMERGENCY/INFORMATION PHONE.

4. PROVIDE CONDUIT BRANCHING ARRANGEMENTS (USING TEE, WYE FITTINGS OR STEEL PULL BOXES AS APPLICABLE), FROM THE MAIN CONDUITS TO THE RELATED DEVICE(S). FLEXIBLE LIQUIT-TIGHT CONDUITS MAY BE USED FOR THE LAST 900MM CONDUIT RUNS TO THE DEVICES. FASTEN THE EXPOSED PORTION OF THE BRANCH CONDUITS WITH APPROPRIATE FASTENERS TO THE STRUCTURES WITHIN 200MM FROM THE ENDS OF THE RGS CONDUITS, AND AT FURTHER NOMINAL INTERVAL OF 900MM.

5. DURING THE 60% DESIGN PHASE, IT IS ASSUMED THAT THE DAKTRONICS AF-6700-32X128-6-A-SF LED DISPLAY WILL BE INSTALLED INSIDE THE SHELTER, LEADING TO NECESSARY ADJUSTMENTS IN THE SHELTER DRAWING DIMENSIONS TO ACCOMMODATE THIS REQUIREMENT. DETAILED SPECIFICATIONS CAN BE FOUND IN ATTACHMENT A. IN CONSULTATION WITH ONTC, ALTERNATIVE OPTIONS ARE BEING EVALUATED. THE DESIGN WILL BE UPDATED ONCE THE FINAL CHOICE OF DISPLAY IS CONFIRMED.

6. IN ACCORDANCE WITH THE ILLUSTRATED SCHEMATIC, WITHIN EACH SHELTER AT TEMAGAMI STATION, TEMISKAMING SHORES STATION, KIRKLAND LAKE STATION, AND MATHESON STATION, THE FOLLOWING ELECTRONIC AND COMMUNICATION COMPONENTS, ACCOMPANIED BY THEIR RESPECTIVE CABLE AND CONDUIT INFRASTRUCTURE, SHALL BE INSTALLED:
   - ONE (1) SPEAKER.
   - ONE (1) CLOSED-CIRCUIT TELEVISION (CCTV) CAMERA.
   - ONE (1) WI-FI ACCESS POINT.
   - ONE (1) LED DISPLAY.
   - ONE (1) INTERCOM DEVICE, SECURELY MOUNTED IN A DESIGNATED PEDESTAL.
   - TWO (2) CARD READERS.

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| NO. | DATE | MODIFICATION | DRAWN | CHKD. | APPRVD. |
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| 1 | 05/17/24 | ADDENDUM NO. 1 | MN | NN | FK |

REVISIONS

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Ontario Northland

GANNETT FLEMING

NORTHEAST PASSENGER RAIL SERVICE
ONTARIO, CANADA
REINSTATED STATIONS (PACKAGE 1 & 2)

GENERAL
COMMUNICATIONS
SHELTER DEVICE LOCATION PLAN

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| CONTRACT NUMBER | 13258 | | |
| SCALE | AS NOTED | DATE | 03/18/2024 |
| DRAWING NUMBER | T00-005 | | |
| SHEET | 120 | OF | 173 |

FILE NAME: C:\Users\mnguyen\DC\ACCDocs\GANNETT FLEMING INC\073613-ONTC-NorthlanderPassengerRail\Project Files\Design\FAC\COMM\Wrkg\0_General Drawings\T00-005 - DEVICE LOCATION PLANS.dwg
CREATED: 2024-01-26 MODIFIED: 2024-05-16 17:13

**LEGEND:**

CAT6 CABLE -

ACS DOOR CONTROL SYSTEM WIRING KIT:
(1) 8C16AWG :
- A. TWO (2) 16 AWG CONDUCTORS TO THE DOOR CONTACT
- B. THREE (3) 16 AWG CONDUCTORS TO THE EXIT REQUEST DEVICE (ERD)
- C. TWO (2) 16 AWG CONDUCTORS TO THE DOOR LOCKS

16AWG 2-PAIR TWISTED SHIELDED PAIR:
- A. 2-PAIR 16 AWG TWISTED SHIELDED TO CARD READER

22AWG CAT5E HIGH-PERFORMANCE STARLINK CABLE
CONNECTING STARLINK POWER SUPPLY TO STARLINK ANTENNA -

PATCH CABLE, 4-PAIR UTP (CAT5E), 22 AWG -

24AWG, CAT5E ROUTER CABLE -

TVSS -

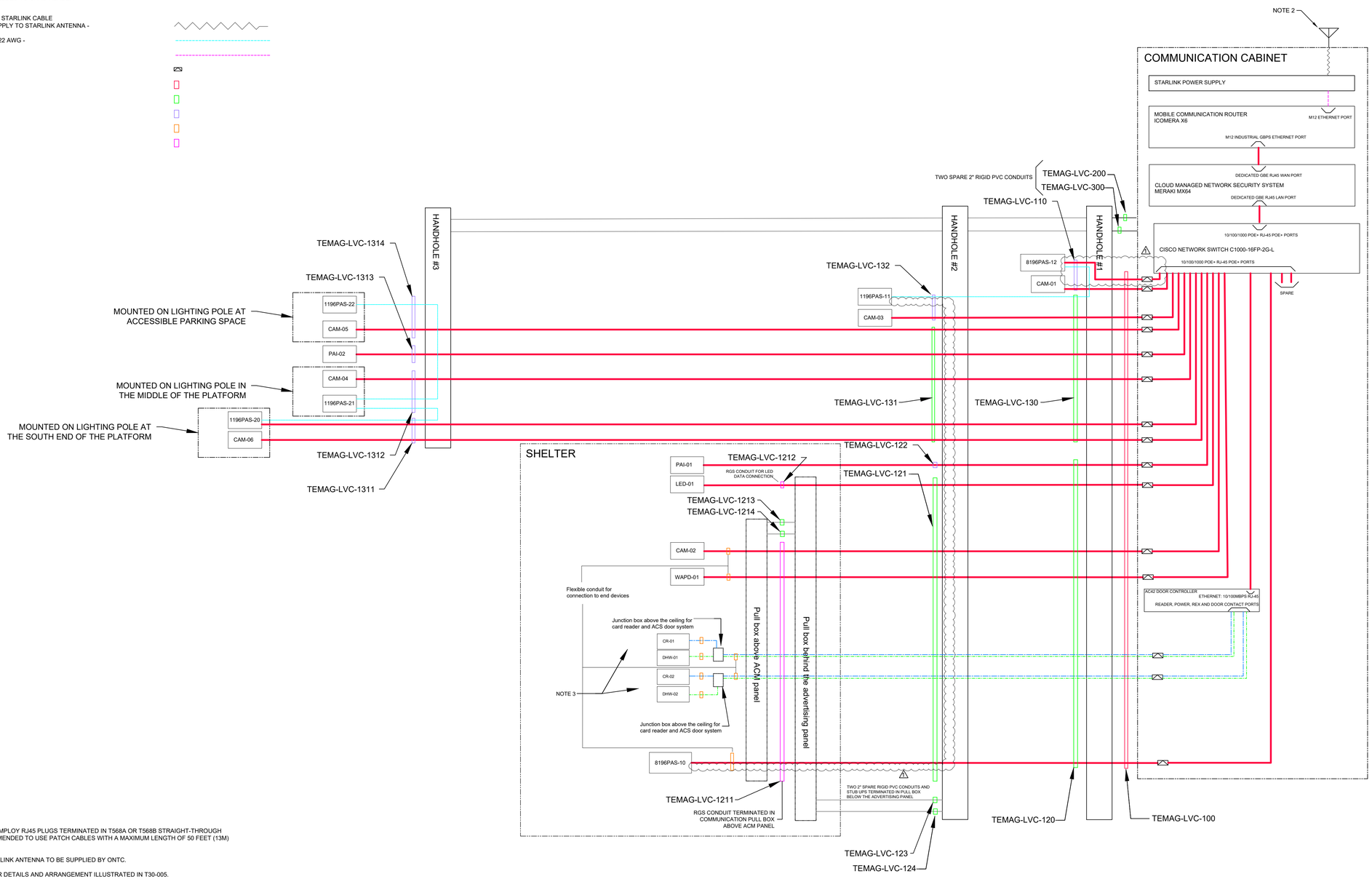
3" RIGID PVC CONDUIT -

2" RIGID PVC CONDUIT -

1" RIGID PVC CONDUIT -

FLEXIBLE CONDUIT -

RGS CONDUIT -




**NOTES:**

1. FOR SPEAKER CONNECTIONS, EMPLOY RJ45 PLUGS TERMINATED IN T568A OR T568B STRAIGHT-THROUGH CONFIGURATIONS. IT IS RECOMMENDED TO USE PATCH CABLES WITH A MAXIMUM LENGTH OF 50 FEET (13M) BETWEEN EACH SPEAKER.
2. FLAT HIGH-PERFORMANCE STARLINK ANTENNA TO BE SUPPLIED BY ONTC.
3. REFER TO ACCESS CONTROLLER DETAILS AND ARRANGEMENT ILLUSTRATED IN T30-005.
4. REFER TO EQUIPMENT, CABLE, AND CONDUIT SCHEDULES FOR FURTHER DETAILS AND ARRANGEMENTS.
5. FOR DETAILED INFORMATION REGARDING THE SPECIFIC LOCATIONS OF DEVICES AND HANDHOLES, REFER TO THE SITE PLAN DRAWINGS.
6. THE INTERCOM UNITS WITHIN THE SHELTER AND AT THE PLATFORM ARE MOUNTED ON A PEDESTAL. CONNECTIVITY IS ESTABLISHED VIA A DEDICATED 1-INCH CONDUIT RUNNING FROM THE HANDHOLE TO THE STUB-UP BENEATH THE PEDESTAL.

| NO. | DATE | MODIFICATION | DRAWN | CHKD. | APPRVD. |
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| 1 | 05/17/24 | ADDENDUM NO. 1 | MN | NN | FK |

REVISIONS

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Ontario Northland

GANNETT FLEMING

NORTHEAST PASSENGER RAIL SERVICE
ONTARIO, CANADA
REINSTATED STATIONS (PACKAGE 1 & 2)

GENERAL
COMMUNICATIONS
TEMAGAMI STATION
SYSTEM OVERVIEW

| | |
|---|---|
| CONTRACT NUMBER | 13258 |
| SCALE | N/A |
| DATE | 03/18/2024 |
| DRAWING NUMBER | T07-001 |
| SHEET | 128 |
| OF | 173 |

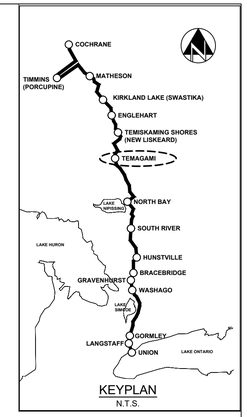
PROJECT NUMBER: 073613
ONTARIO NORTHLAND

FILE NAME: C:\Users\tmnguyen\DCVACCDocs\GANNETT FLEMING INC\073613-ONTC-NorthlanderPassengerRail\Project Files\Design\FAC\COMM\Wksg\7_Temo\T07-001_Comms System Overview - Temagami.dwg
CREATED: 2024-01-11
MODIFIED: 2024-05-17 00:09

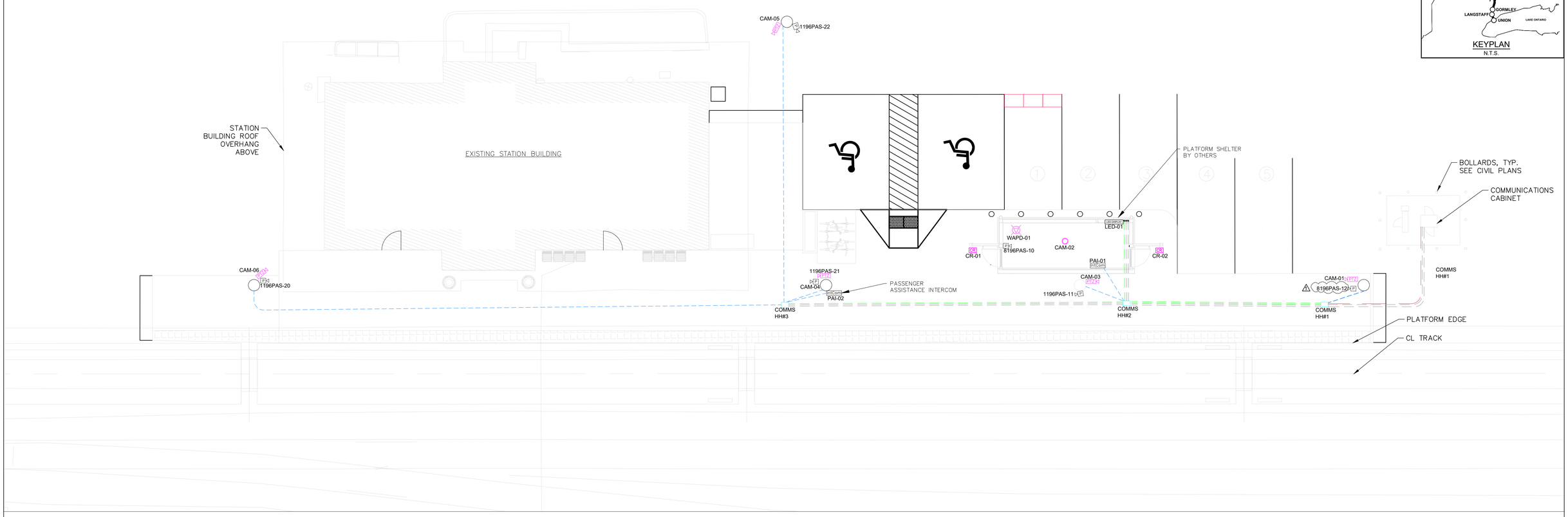
PROJECT NUMBER: 07J613
ONTARIO NORTHLAND

LEGEND:

- 3" RIGID PVC CONDUIT -
- 2" RIGID PVC CONDUIT -
- 2" RIGID PVC CONDUIT (SPARE) -
- 1" RIGID PVC CONDUIT -
- FLEXIBLE CONDUIT -
- RGS CONDUIT -
- LIGHT POLE -
- COMMUNICATIONS HANDHOLE -




KEYPLAN
N.T.S.




# TEMAGAMI STATION
# ENLARGED PLAN

SCALE 1:100

0 1 2 4m

NOTES:

1. THE CONTRACTOR SHALL PROVIDE DEDICATED CONCRETE ENCASED DUCTBANKS TO MEET COMMS AND ELECTRICAL REQUIREMENTS. ALL COMMS AND ELECTRICAL SERVICES SHALL BE IN DEDICATED CONDUITS. THE CONTRACTOR SHALL FINALIZE THE FINAL ROUTING OF THE DUCTBANKS BASED ON THE SITE CONDITIONS.
2. THE CONTRACTOR SHALL PROVIDE THREE (3) 53MM STUB-UPS FOR ELECTRICAL AND THREE (3) 53MM STUB-UPS FOR COMMS FROM DEDICATED CONCRETE ENCASED DUCTBANKS. THE STUB-UPS SHALL BE PROVIDED 500 MM ABOVE FINISHED CONCRETE PAD FOR THE SHELTER.
3. 3 x 53MM RIGID PVC CONDUITS FOR ELECTRICAL AND 3 X 53MM RIGID PVC FOR COMMUNICATION TO BE TERMINATED IN THE RESPECTIVE TERMINATION BOXES PROVIDED BY SHELTER CONTRACTOR.
4. FOR THE INSTALLATION OF COMMUNICATION SYSTEM COMPONENTS, INCLUDING BUT NOT LIMITED TO CAMERAS, SPEAKERS, INTERCOMS, AND RELATED EQUIPMENT WITHIN THE SHELTERS AT TEMAGAMI STATION, REFER TO COMMUNICATION DRAWING T00-006.
5. FOR CONDUIT ARRANGEMENT DETAILS RELATED TO DEVICES IN THE SHELTER, REFER TO THE SHELTER DRAWINGS.
6. THE DEPICTED LOCATIONS AND ANGLES OF COMMUNICATION DEVICES IN THE SITE PLAN DRAWINGS ARE INDICATIVE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL THESE DEVICES STRATEGICALLY AND EFFICIENTLY TO ENSURE COMPREHENSIVE COVERAGE OF THE ENTIRE PLATFORM, PARKING LOT, AND OUTDOOR CABINETS. THE CONTRACTOR SHALL COORDINATE WITH ONTC FOR FINAL CAMERA ADJUSTMENTS.
7. THE CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH ONTC TO PROVIDE A DETAILED PLAN OUTLINING PRECISE LOCATIONS AND FIELDS OF VIEW (FOV) FOR CCTV CAMERA INSTALLATIONS ACROSS THE STATION. THIS PLAN WILL CONSIDER VARIOUS FACTORS, INCLUDING LINE OF SIGHT, COVERAGE AREA, AND THE INCLUSION OF PRIVACY REGIONS ON CAMERAS TO SAFEGUARD SENSITIVE INFORMATION.

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| NO. | DATE | MODIFICATION | DRAWN | CHKD. | APPRVD. |
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| | | REVISIONS | | | |
| 1 | 05/17/24 | ADDENDUM NO. 1 | MN | NN | FK |
| | | REVISIONS | | | |

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| DESIGNED | NN |
| DRAWN | MN |
| CHECKED | NN |
| APPROVED | FK |

Ontario Northland

GANNETT FLEMING

NORTHEAST PASSENGER RAIL SERVICE
ONTARIO, CANADA
REINSTATED STATIONS (PACKAGE 1 & 2)

TEMAGAMI STATION
COMMUNICATIONS
ENLARGED PLAN

| | |
|---|---|
| CONTRACT NUMBER | 13258 |
| SCALE | 1:100 |
| DATE | 03/18/2024 |
| DRAWING NUMBER | T07-201 |
| SHEET | 129 |
| OF | 173 |

FILE NAME: C:\Users\mnguyen\DC\ACCDocs\GANNETT FLEMING INC\07J613-ONTC-NorthlanderPassengerRail\Project Files\Design\FAC\COMM\Wkg\7_Tema\T07-201 - Site Plan Temagami.dwg
CREATED: 2023-12-05
MODIFIED: 2024-05-16 17:34

## INTERCONNECTION CABLE AND CABLE SCHEDULE at TEMAGAMI STATION

| NUMBER | CABLE TYPE | CABLE ID | CABLE ORIGIN | SWITCH PORT# | CABLE DESTINATION | DEVICE TYPE | CONDUIT/RACEWAY NUMBER | DRAWING | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 01 | CAT6 | TEMAG-CISCO-01:01 / SECU-01 | TEMAG-CISCO-01 | 01 | TEMAG-SECU-01 | SECURITY APPLIANCE (Meraki MX64) | n/a | | COMM CABINET |
| 02 | CAT6 | TEMAG-CISCO-01:02 / CAM-01 | TEMAG-CISCO-01 | 02 | TEMAG-CAM-01 | OUTDOOR DOME CAMERA | TEMAG-LVC-100<br>TEMAG-LVC-110 | | PLATFORM |
| 03 | CAT6 | TEMAG-CISCO-01:03 / CAM-02 | TEMAG-CISCO-01 | 03 | TEMAG-CAM-02 | FISHEYE CAMERA | TEMAG-LVC-100<br>TEMAG-LVC-120<br>TEMAG-LVC-121<br>TEMAG-LVC-1211 | | SHELTER |
| 04 | CAT6 | TEMAG-CISCO-01:04 / CAM-03 | TEMAG-CISCO-01 | 04 | TEMAG-CAM-03 | OUTDOOR DOME CAMERA | TEMAG-LVC-100<br>TEMAG-LVC-130<br>TEMAG-LVC-132 | | PLATFORM |
| 05 | CAT6 | TEMAG-CISCO-01:05 / CAM-04 | TEMAG-CISCO-01 | 05 | TEMAG-CAM-04 | OUTDOOR DOME CAMERA | TEMAG-LVC-100<br>TEMAG-LVC-130<br>TEMAG-LVC-131<br>TEMAG-LVC-1312 | | PLATFORM |
| 06 | CAT6 | TEMAG-CISCO-01:06 / CAM-05 | TEMAG-CISCO-01 | 06 | TEMAG-CAM-05 | OUTDOOR DOME CAMERA | TEMAG-LVC-100<br>TEMAG-LVC-130<br>TEMAG-LVC-131<br>TEMAG-LVC-1314 | | PLATFORM |
| 07 | CAT6 | TEMAG-CISCO-01:07 / WAPD-01 | TEMAG-CISCO-01 | 07 | TEMAG-WAPD-01 | WI-FI ACCESS POINT DEVICE | TEMAG-LVC-100<br>TEMAG-LVC-120<br>TEMAG-LVC-121<br>TEMAG-LVC-1211 | | SHELTER |
| 08 | CAT6 | TEMAG-CISCO-01:08 / 8196PAS-10 | TEMAG-CISCO-01 | 08 | TEMAG-8196PAS-10 | POE PA SPEAKER, HORN | TEMAG-LVC-100<br>TEMAG-LVC-120<br>TEMAG-LVC-121<br>TEMAG-LVC-1211 | | SHELTER |
| 09 | CAT6 | TEMAG-CISCO-01:09 / 8196PAS-20 | TEMAG-CISCO-01 | 9 | TEMAG-8196PAS-20 | POE PA SPEAKER, HORN | TEMAG-LVC-100<br>TEMAG-LVC-130<br>TEMAG-LVC-131<br>TEMAG-LVC-1311 | | PLATFORM |
| 10 | CAT6 | TEMAG-CISCO-01:10 / PAI-01 | TEMAG-CISCO-01 | 10 | TEMAG-PAI-01 | INTERCOM | TEMAG-LVC-100<br>TEMAG-LVC-120<br>TEMAG-LVC-122 | | SHELTER |
| 11 | CAT6 | TEMAG-CISCO-01:11 / PAI-02 | TEMAG-CISCO-01 | 11 | TEMAG-PAI-02 | INTERCOM | TEMAG-LVC-100<br>TEMAG-LVC-130<br>TEMAG-LVC-131<br>TEMAG-LVC-1313 | | PLATFORM |
| 12 | CAT6 | TEMAG-CISCO-01:12 / LED-01 | TEMAG-CISCO-01 | 12 | TEMAG-LED-01 | LED DISPLAY | TEMAG-LVC-100<br>TEMAG-LVC-120<br>TEMAG-LVC-121<br>TEMAG-LVC-1212 | | SHELTER |
| 13 | CAT6 | TEMAG-CISCO-01:13 / ADC-01 | TEMAG-CISCO-01 | 13 | TEMAG-ADC-01 | ACS DOOR CONTROLLER | N/A | | COMM CABINET |
| 14 | CAT6 | TEMAG-CISCO-01:014 / CAM-06 | TEMAG-CISCO-01 | 14 | TEMAG-CAM-06 | OUTDOOR DOME CAMERA | TEMAG-LVC-100<br>TEMAG-LVC-130<br>TEMAG-LVC-131<br>TEMAG-LVC-1311 | | PLATFORM |
| 15 | CAT6 | TEMAG-CISCO-01:15 / 8196PAS-12 | TEMAG-CISCO-01 | 15 | TEMAG-8196PAS-12 | SATELLITE PA SPEAKER | TEMAG-LVC-100<br>TEMAG-LVC-110 | | PLATFORM |
| 16 | CAT6 | TEMAG-ROUT-01 / SECU-01 | TEMAG-ROUT-01 | 01 | TEMAG-SECU-01 | SECURITY APPLIANCE (Meraki MX64) | N/A | | COMM CABINET |
| 17 | Patch cable 4 Pair UTP 22 AWG | TEMAG-1196PAS-12 / 1196PAS-11 | TEMAG-1196PAS-12 | N/A | TEMAG-1196PAS-11 | SATELLITE PA SPEAKER | TEMAG-LVC-110<br>TEMAG-LVC-120<br>TEMAG-LVC-132 | | PLATFORM |
| 19 | Patch cable 4 Pair UTP 22 AWG | TEMAG-8196PAS-20 / 1196PAS-21 | TEMAG-8196PAS-20 | N/A | TEMAG-8196PAS-21 | SATELLITE PA SPEAKER | TEMAG-LVC-1311<br>TEMAG-LVC-1312 | | PLATFORM |
| 20 | Patch cable 4 Pair UTP 22 AWG | TEMAG-1196PAS-21 / 1196PAS-22 | TEMAG-1196PAS-21 | N/A | TEMAG-1196PAS-22 | SATELLITE PA SPEAKER | TEMAG-LVC-1312<br>TEMAG-LVC-1314 | | PLATFORM |
| 22 | 16AWG 2-PAIR TWISTED SHIELDED PAIR | TEMAG-ADC-01 / CR-01 | TEMAG-ADC-01 | N/A | TEMAG-CR-01 | CARD READER | TEMAG-LVC-100<br>TEMAG-LVC-120<br>TEMAG-LVC-121<br>TEMAG-LVC-1211 | | SHELTER |
| 23 | 16AWG 2-PAIR TWISTED SHIELDED PAIR | TEMAG-ADC-01 / CR-02 | TEMAG-ADC-01 | N/A | TEMAG-CR-02 | CARD READER | TEMAG-LVC-100<br>TEMAG-LVC-120<br>TEMAG-LVC-121<br>TEMAG-LVC-1211 | | SHELTER |
| 24 | 8C16AWG | TEMAG-ADC-01 / DHW-01 | TEMAG-ADC-01 | N/A | TEMAG-DHW-01 | DOOR HARDWARE AND SYSTEM | TEMAG-LVC-100<br>TEMAG-LVC-120<br>TEMAG-LVC-121<br>TEMAG-LVC-1211 | | SHELTER |
| 25 | 8C16AWG | TEMAG-ADC-01 / DHW-02 | TEMAG-ADC-01 | N/A | TEMAG-DHW-02 | DOOR HARDWARE AND SYSTEM | TEMAG-LVC-100<br>TEMAG-LVC-120<br>TEMAG-LVC-121<br>TEMAG-LVC-1211 | | SHELTER |

NOTES:

1. CABLES BETWEEN SPEAKERS CARRY THE ANALOG AUDIO AND SUPERVISION SIGNALS; THIS INTERFACE DOES NOT ACTUALLY USE ETHERNET.
2. REGARDLESS OF THE NUMBER OF 1196 SATELLITE SPEAKERS USED, CONNECT THE TERMINATION PLUG TO THE EMPTY "OUT/TERM" PORT ON THE LAST 1196 IN THE CHAIN.
3. THE 8196 IP POE+ HORN SPEAKER PROVIDES TWO DIFFERENT RJ45 JACKS: ONE FOR NETWORK CONNECTION, AND A SECOND FOR OPTIONALLY CONNECTING ADDITIONAL 1196 SATELLITE SPEAKERS.
4. CAT6 CONNECTION WIRING TO AN IEEE 802.3AF COMPLIANT NETWORK POE SWITCH MUST NOT LEAVE THE BUILDING PERIMETER WITHOUT ADEQUATE LIGHTNING PROTECTION.
5. SPEAKER CONNECTIONS: PATCH CABLE 4 PAIR UTP 24 AWG RJ45 PLUG TERMINATED T568A OR T568B "STRAIGHT-THROUGH". MAXIMUM RECOMMENDED PATCH CABLE LENGTH 50 FEET (13M) BETWEEN EACH SPEAKER

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| NO. | DATE | MODIFICATION | DRAWN | CHKD. | APPRVD. |
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| 1 | 05/17/24 | ADDENDUM NO. 1 | MN | NN | FK |
| REVISIONS | | | | | |

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| DESIGNED | NN |
| DRAWN | MN |
| CHECKED | NN |
| APPROVED | FK |

Ontario Northland

GANNETT FLEMING

NORTHEAST PASSENGER RAIL SERVICE
ONTARIO, CANADA
REINSTATED STATIONS (PACKAGE 1 & 2)

GENERAL
COMMUNICATIONS
TEMAGAMI STATION
CABLE SCHEDULE

| | |
|---|---|
| CONTRACT NUMBER | 13258 |
| SCALE | N/A |
| DATE | 03/18/2024 |
| DRAWING NUMBER | T07-901 |
| SHEET | 130 |
| OF | 173 |

FILE NAME: C:\Users\mnguyen\DC\ACCDocs\GANNETT FLEMING INC\073613-ONTC-NorthlanderPassengerRail\Project Files\Design\FAC\COMM\Wrkg\7_Temo\T07-901 Cable Schedules - Temo.dwg
CREATED: 2024-01-22
MODIFIED: 2024-05-16 15:39

## CONDUIT SCHEDULE at TEMAGAMI STATION

| NUMBER | CONDUIT ID | FUNCTION | SIZE INCH | TYPE | FROM | TO | CABLE NUMBER | DRAWING | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 01 | TEMAG-LVC-100 | PVC CONDUIT FROM COMM CABINET TO HH#1 | 3 | PVC | TEMAG-CCAB-01 | TEMAG-CHH-01 | TEMAG-CISCO-01:02 / CAM-01<br>TEMAG-CISCO-01:03 / CAM-02<br>TEMAG-CISCO-01:04 / CAM-03<br>TEMAG-CISCO-01:05 / CAM-04<br>TEMAG-CISCO-01:06 / CAM-05<br>TEMAG-CISCO-01:07 / WAPD-01<br>TEMAG-CISCO-01:08 / 8196PAS-10<br>TEMAG-CISCO-01:09 / 8196PAS-20<br>TEMAG-CISCO-01:10 / PAI-01<br>TEMAG-CISCO-01:11 / PAI-02<br>TEMAG-CISCO-01:12 / LED-01<br>~~TEMAG-CISCO-01:014 / CAM-06~~<br>⚠ TEMAG-CISCO-01:015 / 8196PAS-12<br>~~TEMAG-ADC-01 / CR-01~~<br>TEMAG-ADC-01 / CR-02<br>TEMAG-ADC-01 / DHW-01<br>TEMAG-ADC-01 / DHW-02 | | |
| 02 | TEMAG-LVC-200 | SPARE CONDUIT FROM COMM CABINET TO END OF THE PLATFORM THROUGH HH#1, HH#2, HH#3, HH#4 AND HH#5 | 2 | PVC | TEMAG-CCAB-01 | TEMAG-CHH-05 | EMPTY | | |
| 03 | TEMAG-LVC-300 | SPARE CONDUIT FROM COMM CABINET TO END OF THE PLATFORM THROUGH HH#1, HH#2, HH#3, HH#4 AND HH#6 | 2 | PVC | TEMAG-CCAB-01 | TEMAG-CHH-05 | EMPTY | | |
| 04 | TEMAG-LVC-120 | PVC CONDUIT FROM HH#1 TO HH#2 FOR COMM SYSTEMS IN SHELTER | 2 | PVC | TEMAG-CHH-01 | TEMAG-CHH-02 | TEMAG-CISCO-01:03 / CAM-02<br>TEMAG-CISCO-01:07 / WAPD-01<br>TEMAG-CISCO-01:08 / 8196PAS-10<br>TEMAG-CISCO-01:10 / PAI-01<br>TEMAG-CISCO-01:12 / LED-01<br>TEMAG-ADC-01 / CR-01<br>TEMAG-ADC-01 / CR-02<br>TEMAG-ADC-01 / DHW-01<br>TEMAG-ADC-01 / DHW-02 | | |
| 05 | TEMAG-LVC-130 | PVC CONDUIT FROM HH#1 TO HH#2 FOR COMM SYSTEMS IN PLATFORM | 2 | PVC | TEMAG-CHH-01 | TEMAG-CHH-02 | TEMAG-CISCO-01:04 / CAM-03<br>TEMAG-CISCO-01:05 / CAM-04<br>TEMAG-CISCO-01:06 / CAM-05<br>TEMAG-CISCO-01:09 / 8196PAS-20<br>TEMAG-CISCO-01:11 / PAI-02<br>TEMAG-CISCO-01:014 / CAM-06<br>TEMAG-1196PAS-12 / 1196PAS-11 | | |
| 06 | TEMAG-LVC-121 | PVC CONDUIT FROM HH#2 TO PULL BOX BEHIND ADVERTISING PANEL IN SHELTER | 2 | PVC | TEMAG-CHH-02 | TEMAG-ADPB-01 | TEMAG-CISCO-01:03 / CAM-02<br>TEMAG-CISCO-01:07 / WAPD-01<br>TEMAG-CISCO-01:08 / 8196PAS-10<br>⚠ ~~TEMAG-CISCO-01:12 / LED-01~~<br>~~TEMAG-ADC-01 / CR-01~~<br>TEMAG-ADC-01 / CR-02<br>TEMAG-ADC-01 / DHW-01<br>TEMAG-ADC-01 / DHW-02 | | |
| 07 | TEMAG-LVC-1211 | RGS CONDUIT FROM PB BEHIND ADVERTISING PANEL TO PULL BOX ABOVE THE CEILING | 2 | RGS | TEMAG-ADPB-01 | TEMAG-CGPB-01 | TEMAG-CISCO-01:03 / CAM-02<br>TEMAG-CISCO-01:07 / WAPD-01<br>⚠ ~~TEMAG-CISCO-01:08 / 8196PAS-10~~<br>~~TEMAG-ADC-01 / CR-01~~<br>TEMAG-ADC-01 / CR-02<br>TEMAG-ADC-01 / DHW-01<br>TEMAG-ADC-01 / DHW-02 | | |
| 08 | TEMAG-LVC-1212 | RGS CONDUIT FROM PB BEHIND ADVERTISING PANEL TO LED DISPLAY ENCLOSURE | 1 | RGS | TEMAG-ADPB-01 | TEMAG-LED-01 | TEMAG-CISCO-01:12 / LED-01 | | |
| | TEMAG-LVC-122 | PVC CONDUIT FROM HH#2 TO STUB-IP FOR PAI-01 IN SHELTER | 1 | PVC | TEMAG-CHH-02 | TEMAG-PAI-01 | TEMAG-CISCO-01:10 / PAI-01 | | |
| 09 | TEMAG-LVC-123 | SPARE PVC CONDUIT FROM HH#2 TO STUB-UPS BEHIND ADVERTISING PANEL IN SHELTER | 2 | PVC | TEMAG-CHH-02 | TEMAG-ADPB-01 | EMPTY | | |
| 10 | TEMAG-LVC-124 | SPARE PVC CONDUIT FROM HH#2 TO STUB-UPS BEHIND ADVERTISING PANEL IN SHELTER | 2 | PVC | TEMAG-CHH-02 | TEMAG-ADPB-01 | EMPTY | | |
| 11 | TEMAG-LVC-110 | PVC CONDUIT FROM HH#1 TO LIGHTING POLE AT THE NORTH END OF THE PLATFORM | 1 | PVC | TEMAG-CHH-01 | TEMAG-CAM-01 / TEMAG-1196PAS-12 | ~~TEMAG-CISCO-01:02 / CAM-01~~<br>⚠ TEMAG-CISCO-01:015 / 8196PAS-12<br>~~TEMAG-1196PAS-12 / 1196PAS-11~~ | | |
| 12 | TEMAG-LVC-132 | PVC CONDUIT FROM HH#2 TO LIGHTNING POLE WITH 1196-PAS-11 AND CAM-03 | 1 | PVC | TEMAG-CHH-02 | TEMAG-1196PAS-11 / TEMAG-CAM-03 | TEMAG-CISCO-01:04 / CAM-03<br>TEMAG-1196PAS-12 / 1196PAS-11 | | |
| 16 | TEMAG-LVC-131 | PVC CONDUIT FROM HH#2 TO HH#3 | 2 | PVC | TEMAG-CHH-02 | TEMAG-CHH-03 | TEMAG-CISCO-01:05 / CAM-04<br>TEMAG-CISCO-01:06 / CAM-05<br>TEMAG-CISCO-01:09 / 8196PAS-20<br>TEMAG-CISCO-01:11 / PAI-02<br>TEMAG-CISCO-01:014 / CAM-06 | | |
| 17 | TEMAG-LVC-1311 | PVC CONDUIT FROM HH#3 TO THE LIGHTING POLE AT THE SOUTH END OF THE PLATFORM | 1 | PVC | TEMAG-CHH-03 | TEMAG-8196PAS-20 / TEMAG-CAM-06 | TEMAG-CISCO-01:09 / 8196PAS-20<br>TEMAG-CISCO-01:014 / CAM-06<br>TEMAG-8196PAS-20 / 1196PAS-21 | | |
| 18 | TEMAG-LVC-1312 | PVC CONDUIT FROM HH#3 TO THE LIGHTING POLE IN THE MIDDLE OF THE PLATFORM | 1 | PVC | TEMAG-CHH-03 | TEMAG-CAM-04 / TEMAG-1196PAS-21 | TEMAG-CISCO-01:05 / CAM-04<br>TEMAG-8196PAS-20 / 1196PAS-21<br>TEMAG-1196PAS-21 / 1196PAS-22 | | |
| 19 | TEMAG-LVC-1313 | PVC CONDUIT FROM HH#3 TO PAI-02 | 1 | PVC | TEMAG-CHH-03 | TEMAG-PAI-02 | TEMAG-CISCO-01:11 / PAI-02 | | |
| 20 | TEMAG-LVC-1314 | PVC CONDUIT FROM HH#3 TO THE LIGHTING POLE AT THE ACCESSIBLE PARKING SPACE | 1 | PVC | TEMAG-CHH-03 | TEMAG-CAM-05 / TEMAG-1196PAS-22 | TEMAG-CISCO-01:06 / CAM-05<br>TEMAG-1196PAS-21 / 1196PAS-22 | | |
| 21 | TEMAG-LVC-1213 | SPARE RGS CONDUIT FROM PB BEHIND ADVERTISING PANEL TO PULL BOX ABOVE THE CEILING | 2 | RGS | TEMIS-ADPB-01 | TEMIS-CGPB-01 | EMPTY | | |
| 22 | TEMAG-LVC-1214 | SPARE RGS CONDUIT FROM PB BEHIND ADVERTISING PANEL TO PULL BOX ABOVE THE CEILING | 2 | RGS | TEMIS-ADPB-01 | TEMIS-CGPB-01 | EMPTY | | |

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| NO. | DATE | MODIFICATION | DRAWN | CHKD. | APPRVD. |
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| 1 | 05/17/24 | ADDENDUM NO. 1 | MN | NN | FK |

REVISIONS

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| DESIGNED | NN |
| DRAWN | MN |
| CHECKED | NN |
| APPROVED | FK |

Ontario Northland

GANNETT FLEMING

NORTHEAST PASSENGER RAIL SERVICE
ONTARIO, CANADA
REINSTATED STATIONS (PACKAGE 1 & 2)
GENERAL
COMMUNICATIONS
TEMAGAMI STATION
CONDUIT SCHEDULE

| | |
|---|---|
| CONTRACT NUMBER | 13258 |
| SCALE | N/A |
| DATE | 03/18/2024 |
| DRAWING NUMBER | T07-902 |
| SHEET | 131 |
| OF | 173 |

FILE NAME: C:\Users\rmguyen\DC\ACCDocs\GANNETT FLEMING INC\073613-ONTC-NorthlanderPassengerRail\Project Files\Design\FAC\COMM\Wrkg\7_Tema\T07-902 Conduit Schedules.dwg
CREATED: 2024-03-08 MODIFIED: 2024-05-15 15:53

## EQUIPMENT SCHEDULE at TEMAGAMI STATION

| EQUIPMENT TAG | MANUFACTURER | MODEL NUMBER | DESCRIPTION | LOCATION | DRAWING | SUPPLIED BY | INSTALLED BY | CONFIGURED BY | COMMENT |
|---|---|---|---|---|---|---|---|---|---|
| TEMAG-8196PAS-10 | ALGO COMMUNICATION PRODUCTS LTD. | ALGO 8196 | POE+ SPEAKER | SHELTER | | ONTC | CONTRACTOR | ONTC | 48 V PoE IEEE 802.3af/at Max 25.5 W - Idle nominal 2.5 W |
| ~~TEMAG-1196PAS-11~~ | ~~ALGO COMMUNICATION PRODUCTS LTD.~~ | ~~ALGO 1196~~ | ~~SATELLITE SPEAKER~~ | ~~PLATFORM~~ | | ~~ONTC~~ | ~~CONTRACTOR~~ | ~~ONTC~~ | ~~16 Watts (shared equally between 8196 and up to 3 x 1196)~~ |
| TEMAG-8196PAS-12 | ALGO COMMUNICATION PRODUCTS LTD. | ALGO 8196 | POE+ SPEAKER | PLATFORM | | ONTC | CONTRACTOR | ONTC | 48 V PoE IEEE 802.3af/at Max 25.5 W - Idle nominal 2.5 W |
| ~~TEMAG-8196PAS-20~~ | ~~ALGO COMMUNICATION PRODUCTS LTD.~~ | ~~ALGO 8196~~ | ~~POE+ SPEAKER~~ | ~~PLATFORM~~ | | ~~ONTC~~ | ~~CONTRACTOR~~ | ~~ONTC~~ | ~~48 V PoE IEEE 802.3af/at Max 25.5 W - Idle nominal 2.5 W~~ |
| TEMAG-1196PAS-21 | ALGO COMMUNICATION PRODUCTS LTD. | ALGO 1196 | SATELLITE SPEAKER | PLATFORM | | ONTC | CONTRACTOR | ONTC | 16 Watts (shared equally between 8196 and up to 3 x 1196) |
| TEMAG-1196PAS-22 | ALGO COMMUNICATION PRODUCTS LTD. | ALGO 1196 | SATELLITE SPEAKER | PLATFORM | | ONTC | CONTRACTOR | ONTC | 16 Watts (shared equally between 8196 and up to 3 x 1196) |
| TEMAG-CAM-01 | VERKADA | CD62-E | OUTDOOR DOME CAMERA | PARKING LOT | | ONTC | CONTRACTOR | ONTC | IEEE 802.3at Type 2 PoE+ for Extended temperature range and assumes IR will be enabled |
| TEMAG-CAM-02 | VERKADA | CF81-E | FISHEYE CAMERA | SHELTER | | ONTC | CONTRACTOR | ONTC | IEEE 802.3at Type 2 PoE+ for Extended temperature range and assumes IR will be enabled |
| TEMAG-CAM-03 | VERKADA | CD62-E | OUTDOOR DOME CAMERA | PLATFORM | | ONTC | CONTRACTOR | ONTC | Extended Temperature Range: 20W (IEEE 802.3at PoE) |
| TEMAG-CAM-04 | VERKADA | CD62-E | OUTDOOR DOME CAMERA | PLATFORM | | ONTC | CONTRACTOR | ONTC | Extended Temperature Range: 20W (IEEE 802.3at PoE) |
| TEMAG-CAM-05 | VERKADA | CD62-E | OUTDOOR DOME CAMERA | PLATFORM | | ONTC | CONTRACTOR | ONTC | Extended Temperature Range: 20W (IEEE 802.3at PoE) |
| TEMAG-CAM-06 | VERKADA | CD62-E | OUTDOOR DOME CAMERA | PLATFORM | | ONTC | CONTRACTOR | ONTC | Extended Temperature Range: 20W (IEEE 802.3at PoE) |
| TEMAG-PAI-01 | TALKAPHONE | VOIP-600 | PASSENGER ASSISTANCE INTERCOM | SHELTER | | ONTC | CONTRACTOR | ONTC | Max: +12VDC (800mA), +24VAC/DC (500mA), or PoE (+36VDC - 57VDC, 250mA) |
| TEMAG-PAI-02 | TALKAPHONE | VOIP-600 | PASSENGER ASSISTANCE INTERCOM | PLATFORM | | ONTC | CONTRACTOR | ONTC | Max: +12VDC (800mA), +24VAC/DC (500mA), or PoE (+36VDC - 57VDC, 250mA) |
| TEMAG-CR-01 | VERKADA | AD33 | CARD READER | SHELTER | | ONTC | CONTRACTOR | ONTC | Power Consumption 12V, 300mA max / Requires Verkada Access Control Unit AC42 |
| TEMAG-CR-02 | VERKADA | AD33 | CARD READER | SHELTER | | ONTC | CONTRACTOR | ONTC | Power Consumption 12V, 300mA max / Requires Verkada Access Control Unit AC42 |
| TEMAG-DHW-01 | N/A | N/A | Door HW (DOOR CONTACT, LOCK, REX, DOOR OPERATOR) | SHELTER | | SHELTER SUPPLIER | SHELTER SUPPLIER | CONTRACTOR + ONTC | |
| TEMAG-DHW-02 | N/A | N/A | Door HW (DOOR CONTACT, LOCK, REX, DOOR OPERATOR) | SHELTER | | SHELTER SUPPLIER | SHELTER SUPPLIER | CONTRACTOR + ONTC | |
| TEMAG-WAPD-01 | MERAKI | CW9162 | WIFI ACCESS POINT DEVICE | SHELTER | | ONTC | CONTRACTOR | ONTC | POE: 37 - 42.5 V (802.3at compliant)/DC Power Adapter (12V)/ Power consumption: 30W |
| TEMAG-LED-01 | HANOVER DISPLAYS INC | TP.NT.DISP.16X96.001 | LED DISPLAY AND ENCLOSURE | SHELTER | | ONTC | CONTRACTOR | ONTC | 110 VAC / 105 W WHEN ALL LEDS LIT AT 100% VRIGHTNESS |
| TEMAG-ANT-01 | STARLINK | | STARLINK DISH TO BE CONNECTED TO ICOMERA ROUTER | COMMUNICATION CABINET | | ONTC | CONTRACTOR | ONTC | |
| TEMAG-ROUT-01 | ICOMERA | ICOMERA X6i | MOBILE COMMUNICATION ROUTER ICOMERA X6 | COMMUNICATION CABINET | | ONTC | CONTRACTOR | ONTC | Power Inputs: 24VDC / PowerConsumption <100W |
| TEMAG-SECU-01 | MERAKI | MERAKI MX64 | CLOUD MANAGED NETWORK SECURITY SYSTEM | COMMUNICATION CABINET | | ONTC | CONTRACTOR | ONTC | Power Supply 30W DC / Power Load (idle/max) 4W / 10W |
| TEMAG-ADC-01 | VERKADA | AC42 / ACC-BAT-4AH | ACCESS DOOR CONTROLLER / BATTERY BACKUP | COMMUNICATION CABINET | | ONTC | CONTRACTOR | ONTC | AC Power Input: 100-240VAC50/60Hz1.5A max / Power Consumption60W maximum |
| TEMAG-CISCO-01 | CISCO | C1000-16FP-2G-L | CISCO NETWORK SWITCH | COMMUNICATION CABINET | | ONTC | CONTRACTOR | ONTC | 110 to 220V AC / Power consumption 100% traffic: 16.68 watts |
| TEMAG-HTHER-01 | HAMMOND | SKT011409NC-C | HEATER THERMOSTAT | COMMUNICATION CABINET | | CONTRACTOR | CONTRACTOR | N/A | |
| TEMAG-VTHER-01 | HAMMOND | SKT011419NO-C | FAN THERMOSTAT | COMMUNICATION CABINET | | CONTRACTOR | CONTRACTOR | N/A | |
| TEMAG-VFAN-01 | | FT300HA1BK | VENTILATION FAN | COMMUNICATION CABINET | | CONTRACTOR | CONTRACTOR | N/A | |
| TEMAG-HEAT-01 | | SHV031149 | AIR HEATER | COMMUNICATION CABINET | | CONTRACTOR | CONTRACTOR | N/A | to be Installed on Inside of Door. Heater Employs a Built-In Temperature Limiter/ Thermal Shutoff. |
| TEMAG-DINR | | | DIN RAIL | COMMUNICATION CABINET | | CONTRACTOR | CONTRACTOR | N/A | |
| TEMAG-WIREWAY | PANDUIT | F2X2LG6 / C4LG6 | WIREWAY/ WIREDUCT / WIRE DUCT COVER | COMMUNICATION CABINET | | CONTRACTOR | CONTRACTOR | N/A | |
| TEMAG-PATCHP | | | PATCH PANELS | COMMUNICATION CABINET | | CONTRACTOR | CONTRACTOR | N/A | |
| TEMAG-CIRCUITB | | | CIRCUIT BREAKERS | COMMUNICATION CABINET | | CONTRACTOR | CONTRACTOR | N/A | |
| TEMAG-GBAR | | | GROUND BAR | COMMUNICATION CABINET | | CONTRACTOR | CONTRACTOR | N/A | |
| TEMAG-GFCIR | | | GFCI PROTECTED RECEPTACLES WITH USB C AND A | COMMUNICATION CABINET | | CONTRACTOR | CONTRACTOR | N/A | |
| TEMAG-TVSS | | | TVSS(TRANSIENT VOLTAGE SURGE SUPPRESSOR) | COMMUNICATION CABINET | | CONTRACTOR | CONTRACTOR | N/A | |
| TEMAG-DISSWCH | | | DISCONNECT SWITCH | COMMUNICATION CABINET | | CONTRACTOR | CONTRACTOR | N/A | |
| TEMAG-TEMP | CDW | EME1T5SNMP-R2 | SNMP TEMPERATURE SENSOR | COMMUNICATION CABINET | | CONTRACTOR | CONTRACTOR | ONTC | |
| NO TAG | | | WIRE REINFORCED AIR FILTERS / FIBERGLASS MESH SCREEN ON DISCHARGE/ COVER PLATES FOR LOUVERS / 3/4" POLYISO R4.5 INTERIOR INSULATION / HINGES / BACKPANEL / SHELVES / DOOR ARE VENT WITH FILTER MATERIAL / KEY-LOCK HANDLE / TERMINAL BLOCKS | COMMUNICATION CABINET | | CONTRACTOR | CONTRACTOR | N/A | |
| TEMAG-CCAB-01 | | | STAINLESS STEEL FREE STANDING COMMUNICATION CABINET | PLATFORM | | CONTRACTOR | CONTRACTOR | N/A | |
| TEMAG-CHH-01 | | | HANDHOLE #1 | PLATFORM | | CONTRACTOR | CONTRACTOR | N/A | |
| TEMAG-CHH-02 | | | HANDHOLE #2 | PLATFORM | | CONTRACTOR | CONTRACTOR | N/A | |
| TEMAG-CHH-03 | | | HANDHOLE #3 | PLATFORM | | CONTRACTOR | CONTRACTOR | N/A | |
| TEMAG-ADPB-01 | | | PULL BOX BEHIND THE ADVERTISING PANEL | SHELTER | | SUPPLIER | CONTRACTOR | N/A | |
| TEMAG-CGPB-01 | | | PULL BOX ABOVE ACM PANEL (ABOVE CEILING) | SHELTER | | SUPPLIER | CONTRACTOR | N/A | |

IFT DESIGN
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| NO. | DATE | MODIFICATION | DRAWN | CHKD. | APPRVD. |
|---|---|---|---|---|---|
| 1 | 05/17/24 | ADDENDUM NO. 1 | MN | NN | FK |

REVISIONS

DESIGNED NN
DRAWN MN
CHECKED NN
APPROVED FK

Ontario Northland
GANNETT FLEMING

NORTHEAST PASSENGER RAIL SERVICE
ONTARIO, CANADA
REINSTATED STATIONS (PACKAGE 1 & 2)
GENERAL
COMMUNICATIONS
TEMAGAMI STATION
EQUIPMENT SCHEDULE

CONTRACT NUMBER 13258
SCALE N/A
DATE 03/18/2024
DRAWING NUMBER T07-903
SHEET 132 OF 173

FILE NAME: C:\Users\rmnguyen\DC\ACCDocs\GANNETT FLEMING INC\073613-ONTC-NorthlanderPassengerRail\Project Files\Design\FAC\COMM\Wrkg\7_Tema\T07-903 Equip Schedules.dwg
CREATED: 2024-03-08 MODIFIED: 2024-05-15 15:53

PROJECT NUMBER: 073613
ONTARIO NORTHLAND

**LEGEND:**

CAT6 CABLE -

ACS DOOR CONTROL SYSTEM WIRING KIT:
(1) 8C16AWG :
- A. TWO (2) 16 AWG CONDUCTORS TO THE DOOR CONTACT
- B. THREE (3) 16 AWG CONDUCTORS TO THE EXIT REQUEST DEVICE (ERD)
- C. TWO (2) 16 AWG CONDUCTORS TO THE DOOR LOCKS

16AWG 2-PAIR TWISTED SHIELDED PAIR:
- A. 2-PAIR 16 AWG TWISTED SHIELDED TO CARD READER

22AWG CAT5E HIGH-PERFORMANCE STARLINK CABLE
CONNECTING STARLINK POWER SUPPLY TO STARLINK ANTENNA -

PATCH CABLE, 4-PAIR UTP (CAT5E), 22 AWG -

24AWG, CAT5E ROUTER CABLE -

TVSS -

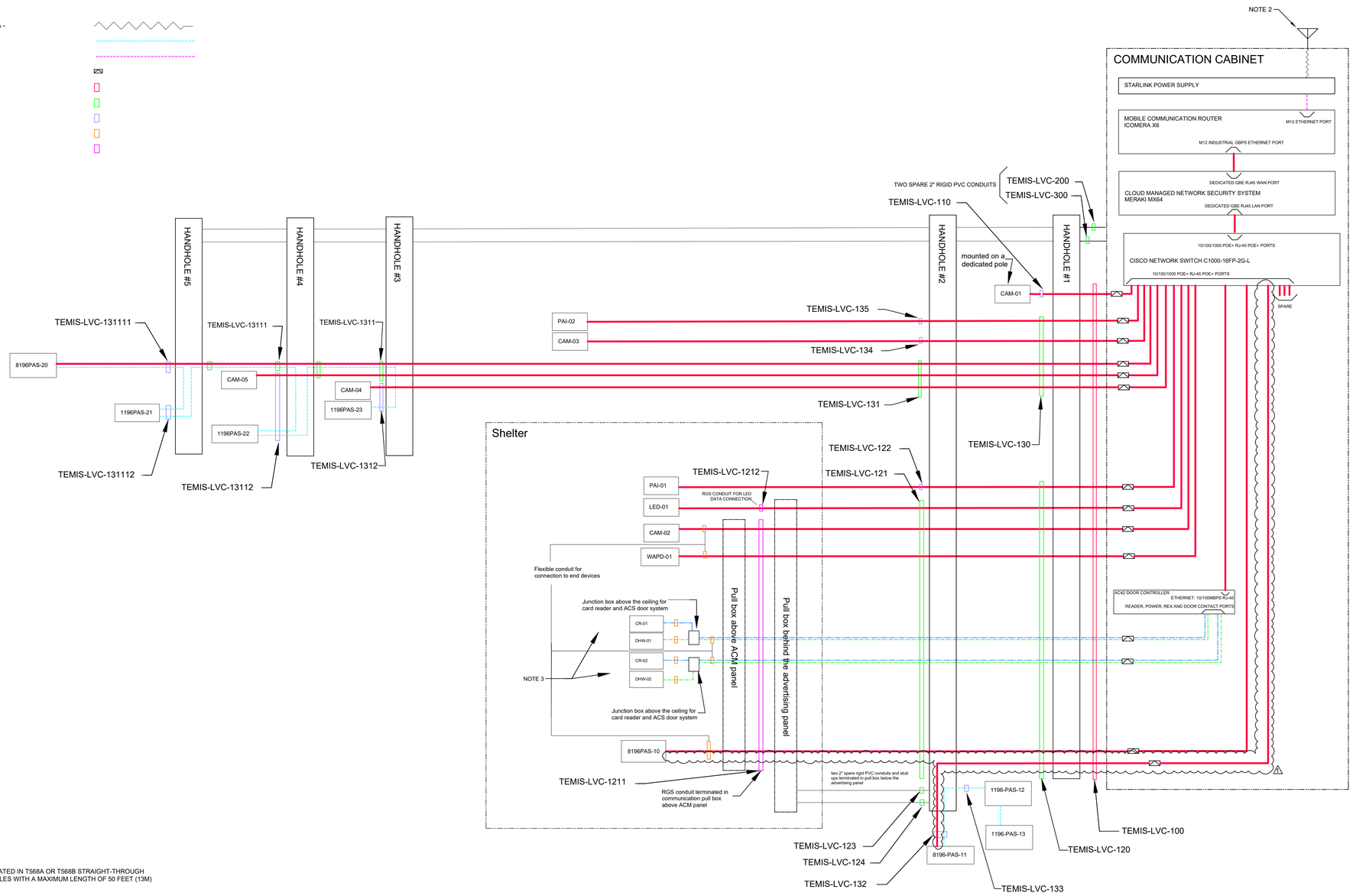
3" RIGID PVC CONDUIT -

2" RIGID PVC CONDUIT -

1" RIGID PVC CONDUIT -

FLEXIBLE CONDUIT -

RGS CONDUIT -




**NOTES:**

1. FOR SPEAKER CONNECTIONS, EMPLOY RJ45 PLUGS TERMINATED IN T568A OR T568B STRAIGHT-THROUGH CONFIGURATIONS. IT IS RECOMMENDED TO USE PATCH CABLES WITH A MAXIMUM LENGTH OF 50 FEET (13M) BETWEEN EACH SPEAKER.
2. FLAT HIGH-PERFORMANCE STARLINK ANTENNA TO BE SUPPLIED BY ONTC.
3. REFER TO ACCESS CONTROLLER DETAILS AND ARRANGEMENT ILLUSTRATED IN T30-005.
4. REFER TO EQUIPMENT, CABLE, AND CONDUIT SCHEDULES FOR FURTHER DETAILS AND ARRANGEMENTS.
5. FOR DETAILED INFORMATION REGARDING THE SPECIFIC LOCATIONS OF DEVICES AND HANDHOLES, REFER TO THE SITE PLAN DRAWINGS.
6. THE INTERCOM UNITS WITHIN THE SHELTER AND AT THE PLATFORM ARE MOUNTED ON A PEDESTAL. CONNECTIVITY IS ESTABLISHED VIA A DEDICATED 1-INCH CONDUIT RUNNING FROM THE HANDHOLE TO THE STUB-UP BENEATH THE PEDESTAL.

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| NO. | DATE | MODIFICATION | DRAWN | CHKD. | APPRVD. |
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| | | REVISIONS | | | |
| 1 | 05/17/24 | ADDENDUM NO. 1 | MN | NN | FK |
| NO. | DATE | MODIFICATION | DRAWN | CHKD. | APPRVD. |
| | | REVISIONS | | | |

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| DESIGNED | NN |
| DRAWN | MN |
| CHECKED | NN |
| APPROVED | FK |

Ontario Northland

GANNETT FLEMING

NORTHEAST PASSENGER RAIL SERVICE
ONTARIO, CANADA
REINSTATED STATIONS (PACKAGE 1 & 2)

GENERAL
COMMUNICATIONS
TEMISKAMING SHORES STATION
SYSTEM OVERVIEW

| | |
|---|---|
| CONTRACT NUMBER | 13258 |
| SCALE N/A | DATE 03/18/2024 |
| DRAWING NUMBER | T08-001 |
| SHEET 133 | OF 173 |

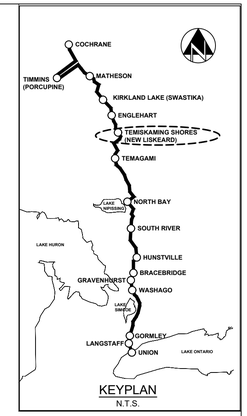
FILE NAME: C:\Users\mnguyen\DC\ACCDocs\GANNETT FLEMING INC\073613-ONTC-NorthlanderPassengerRail\Project Files\Design\FAC\COMM\Wrkg\8_Tem\T08-001_Comms System Overview — Temiskaming.dwg
CREATED: 2024-01-23
MODIFIED: 2024-05-17 00:09

NOTES:

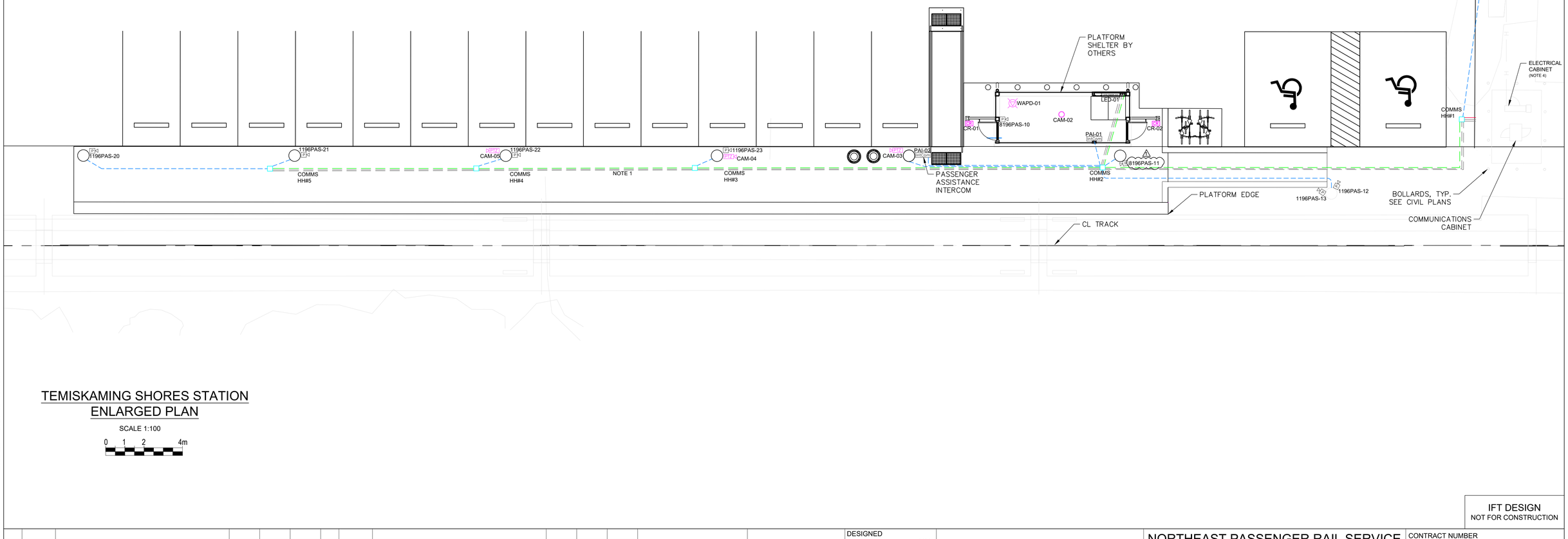
1. THE CONTRACTOR SHALL PROVIDE DEDICATED CONCRETE ENCASED DUCTBANKS TO MEET COMMS AND ELECTRICAL REQUIREMENTS. ALL COMMS AND ELECTRICAL SERVICES SHALL BE IN DEDICATED CONDUITS. THE CONTRACTOR SHALL FINALIZE THE FINAL ROUTING OF THE DUCTBANKS BASED ON THE SITE CONDITIONS.
2. THE CONTRACTOR SHALL PROVIDE THREE (3) 53MM STUB-UPS FOR ELECTRICAL AND THREE (3) 53MM STUB-UPS FOR COMMS FROM DEDICATED CONCRETE ENCASED DUCTBANKS. THE STUB-UPS SHALL BE PROVIDED 500 MM ABOVE FINISHED CONCRETE PAD FOR THE SHELTER.
3. 3 x 53MM RIGID PVC CONDUITS FOR ELECTRICAL AND 3 X 53MM RIGID PVC FOR COMMUNICATION TO BE TERMINATED IN THE RESPECTIVE TERMINATION BOXES PROVIDED BY SHELTER CONTRACTOR.
4. THE CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL UTILITY COMPANY IN THE AREA FOR THE FINAL ROUTE OF THE INCOMING POWER TO THE REINSTATED STATION. THE PROPOSED ELECTRICAL ROUTING FOLLOWS THE EXISTING ELECTRICAL UTILITY DUCTBANK ROUTING BASED ON THE CURRENT CONDITIONS THIS ROUTING PATH IS TO BE USED FOR REFERENCE ONLY.
5. FOR THE INSTALLATION OF COMMUNICATION SYSTEM COMPONENTS, INCLUDING BUT NOT LIMITED TO CAMERAS, SPEAKERS, INTERCOMS, AND RELATED EQUIPMENT WITHIN THE SHELTERS AT TEMISKAMING SHORES STATION, REFER TO COMMUNICATION DRAWING T00-006.
6. FOR CONDUIT ARRANGEMENT DETAILS RELATED TO DEVICES IN THE SHELTER, REFER TO THE SHELTER DRAWINGS.
7. CAM-01: PROVIDE 6-METER HINGED POLE FOR MOUNTING OF CCTV CAMERA CAM-01. REFER TO RELEVANT DETAILS IN DRAWINGS AND REFERENCES THEREIN FOR POLE DETAILS. HINGED POLES SHALL BE INSTALLED IN SUCH A MANNER TO AVOID OBSTRUCTIONS WHEN LOWERED.
8. THE DEPICTED LOCATIONS AND ANGLES OF COMMUNICATION DEVICES IN THE SITE PLAN DRAWINGS ARE INDICATIVE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL THESE DEVICES STRATEGICALLY AND EFFICIENTLY TO ENSURE COMPREHENSIVE COVERAGE OF THE ENTIRE PLATFORM, PARKING LOT, AND OUTDOOR CABINETS. THE CONTRACTOR SHALL COORDINATE WITH ONTC FOR FINAL CAMERA ADJUSTMENTS.
9. THE CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH ONTC TO PROVIDE A DETAILED PLAN OUTLINING PRECISE LOCATIONS AND FIELDS OF VIEW (FOV) FOR CCTV CAMERA INSTALLATIONS ACROSS THE STATION. THIS PLAN WILL CONSIDER VARIOUS FACTORS, INCLUDING LINE OF SIGHT, COVERAGE AREA, AND THE INCLUSION OF PRIVACY REGIONS ON CAMERAS TO SAFEGUARD SENSITIVE INFORMATION.
10. IN THIS DRAWING, CAM-01 IS MOUNTED ON A DEDICATED CCTV POLE. FOR FURTHER DETAILS, REFER TO DRAWINGS T00-012, T00-013, T00-014 AND T00-015.

LEGEND:

- 3" RIGID PVC CONDUIT -
- 2" RIGID PVC CONDUIT -
- 2" RIGID PVC CONDUIT (SPARE) -
- 1" RIGID PVC CONDUIT -
- FLEXIBLE CONDUIT -
- RGS CONDUIT -
- LIGHT POLE -
- CAMERA POLE -
- COMMUNICATIONS HANDHOLE -




KEYPLAN
N.T.S.




## TEMISKAMING SHORES STATION
## ENLARGED PLAN

SCALE 1:100

0 1 2 4m

IFT DESIGN
NOT FOR CONSTRUCTION

| NO. | DATE | MODIFICATION | DRAWN | CHKD. | APPRVD. |
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| 1 | 05/17/24 | ADDENDUM NO. 1 | MN | NN | FK |

REVISIONS

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| DESIGNED | NN |
| DRAWN | MN |
| CHECKED | NN |
| APPROVED | FK |

Ontario Northland

GANNETT FLEMING

NORTHEAST PASSENGER RAIL SERVICE
ONTARIO, CANADA
REINSTATED STATIONS (PACKAGE 1 & 2)

TEMISKAMING SHORES STATION
COMMUNICATIONS
ENLARGED PLAN

| | |
|---|---|
| CONTRACT NUMBER | 13258 |
| SCALE | 1:100 |
| DATE | 03/18/2024 |
| DRAWING NUMBER | T08-201 |
| SHEET | 134 |
| OF | 173 |

ONTARIO NORTHLAND PROJECT NUMBER: 073613

FILE NAME: C:\Users\mnguyen\DC\ACCDocs\GANNETT FLEMING INC\073613-ONTC-NorthlanderPassengerRail\Project Files\Design\PAC\COMM\Wkg\8_Tem\T08-201 - Site Plan Temiskaming.dwg
CREATED: 2024-01-23
MODIFIED: 2024-05-16 18:11

## INTERCONNECTION CABLE AND CABLE SCHEDULE at TEMISKAMING SHORES STATION

| NUMBER | CABLE TYPE | CABLE ID | CABLE ORIGIN | SWITCH PORT# | CABLE DESTINATION | DEVICE TYPE | CONDUIT/RACEWAY NUMBER | DRAWING | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 01 | CAT6 | TEMIS-CISCO-01:01 / SECU-01 | TEMIS-CISCO-01 | 01 | TEMIS-SECU-01 | SECURITY APPLIANCE (Meraki MX64) | n/a | | COMM CABINET |
| 02 | CAT6 | TEMIS-CISCO-01:02 / CAM-01 | TEMIS-CISCO-01 | 02 | TEMIS-CAM-01 | OUTDOOR DOME CAMERA | TEMIS-LVC-100<br>TEMIS-LVC-110 | | PARKING LOT |
| 03 | CAT6 | TEMIS-CISCO-01:03 / CAM-02 | TEMIS-CISCO-01 | 03 | TEMIS-CAM-02 | FISHEYE CAMERA | TEMIS-LVC-100<br>TEMIS-LVC-120<br>TEMIS-LVC-121<br>TEMIS-LVC-1211 | | SHELTER |
| 04 | CAT6 | TEMIS-CISCO-01:04 / CAM-03 | TEMIS-CISCO-01 | 04 | TEMIS-CAM-03 | OUTDOOR DOME CAMERA | TEMIS-LVC-100<br>TEMIS-LVC-130<br>TEMIS-LVC-134 | | PLATFORM |
| 05 | CAT6 | TEMIS-CISCO-01:05 / CAM-04 | TEMIS-CISCO-01 | 05 | TEMIS-CAM-04 | OUTDOOR DOME CAMERA | TEMIS-LVC-100<br>TEMIS-LVC-130<br>TEMIS-LVC-131<br>TEMIS-LVC-1312 | | PLATFORM |
| 06 | CAT6 | TEMIS-CISCO-01:06 / CAM-05 | TEMIS-CISCO-01 | 06 | TEMIS-CAM-05 | OUTDOOR DOME CAMERA | TEMIS-LVC-100<br>TEMIS-LVC-130<br>TEMIS-LVC-131<br>TEMIS-LVC-1311<br>TEMIS-LVC-13112 | | PLATFORM |
| 07 | CAT6 | TEMIS-CISCO-01:07 / WAPD-01 | TEMIS-CISCO-01 | 07 | TEMIS-WAPD-01 | WI-FI ACCESS POINT DEVICE | TEMIS-LVC-100<br>TEMIS-LVC-120<br>TEMIS-LVC-121<br>TEMIS-LVC-1211 | | SHELTER |
| 08 | CAT6 | TEMIS-CISCO-01:08 / 8196PAS-10 | TEMIS-CISCO-01 | 08 | TEMIS-8196PAS-10 | POE PA SPEAKER, HORN | TEMIS-LVC-100<br>TEMIS-LVC-120<br>TEMIS-LVC-121<br>TEMIS-LVC-1211 | | SHELTER |
| 09 | CAT6 | TEMIS-CISCO-01:09 / 8196PAS-20 | TEMIS-CISCO-01 | 09 | TEMIS-8196PAS-20 | POE PA SPEAKER, HORN | TEMIS-LVC-100<br>TEMIS-LVC-130<br>TEMIS-LVC-131<br>TEMIS-LVC-1311<br>TEMIS-LVC-13111<br>TEMIS-LVC-131111 | | PLATFORM |
| 10 | CAT6 | TEMIS-CISCO-01:10 / PAI-01 | TEMIS-CISCO-01 | 10 | TEMIS-PAI-01 | INTERCOM | TEMIS-LVC-100<br>TEMIS-LVC-120<br>TEMIS-LVC-122 | | SHELTER |
| 11 | CAT6 | TEMIS-CISCO-01:11 / PAI-02 | TEMIS-CISCO-01 | 11 | TEMIS-PAI-02 | INTERCOM | TEMIS-LVC-100<br>TEMIS-LVC-130<br>TEMIS-LVC-135 | | PLATFORM |
| 12 | CAT6 | TEMIS-CISCO-01:12 / LED-01 | TEMIS-CISCO-01 | 12 | TEMIS-LED-01 | LED DISPLAY | TEMIS-LVC-100<br>TEMIS-LVC-120<br>TEMIS-LVC-121<br>TEMIS-LVC-1212 | | SHELTER |
| ~~13~~ | ~~CAT6~~ | ~~TEMIS-CISCO-01:13 / ADC-01~~ | ~~TEMIS-CISCO-01~~ | ~~13~~ | ~~TEMIS-ADC-01~~ | ~~ACS DOOR CONTROLLER~~ | ~~n/a~~ | | ~~COMM CABINET~~ |
| 14 | CAT6 | TEMIS-CISCO-01:14 / 8196PAS-11 | TEMIS-CISCO-01 | 14 | TEMIS-8196PAS-11 | POE PA SPEAKER, HORN | TEMIS-LVC-100<br>TEMIS-LVC-120<br>TEMIS-LVC-132 | | PLATFORM |
| ~~15~~ | ~~CAT6~~ | ~~TEMIS-ROUT-01 / SECU-01~~ | ~~TEMIS-ROUT-01~~ | ~~01~~ | ~~TEMIS-SECU-01~~ | ~~SECURITY APPLIANCE (Meraki MX64)~~ | ~~n/a~~ | | ~~COMM CABINET~~ |
| 16 | Patch cable 4 Pair UTP 22 AWG | TEMIS-8196PAS-11 / 1196PAS-12 | TEMIS-8196PAS-11 | N/A | TEMIS-1196PAS-12 | SATELLITE PA SPEAKER | TEMIS-LVC-132<br>TEMIS-LVC-133 | | PLATFORM |
| 17 | Patch cable 4 Pair UTP 22 AWG | TEMIS-1196PAS-12 / 1196PAS-13 | TEMIS-1196PAS-12 | N/A | TEMIS-1196PAS-13 | SATELLITE PA SPEAKER | n/a | | On the same pole next to 1196PA-12 PLATFORM |
| 18 | Patch cable 4 Pair UTP 22 AWG | TEMIS-8196PAS-20 / 1196PAS-21 | TEMIS-8196PAS-20 | N/A | TEMIS-8196PAS-21 | SATELLITE PA SPEAKER | TEMIS-LVC-131111<br>TEMIS-LVC-131112 | | PLATFORM |
| 19 | Patch cable 4 Pair UTP 22 AWG | TEMIS-1196PAS-21 / 1196PAS-22 | TEMIS-1196PAS-21 | N/A | TEMIS-1196PAS-22 | SATELLITE PA SPEAKER | TEMIS-LVC-13111<br>TEMIS-LVC-13112<br>TEMIS-LVC-131112 | | PLATFORM |
| 20 | Patch cable 4 Pair UTP 22 AWG | TEMIS-1196PAS-22 / 1196PAS-23 | TEMIS-1196PAS-22 | N/A | TEMIS-1196PAS-23 | SATELLITE PA SPEAKER | TEMIS-LVC-1311<br>TEMIS-LVC-1312<br>TEMIS-LVC-13112 | | PLATFORM |
| 21 | 16AWG 2-PAIR TWISTED SHIELDED PAIR | TEMIS-ADC-01 / CR-01 | TEMIS-ADC-01 | N/A | TEMIS-CR-01 | CARD READER | TEMIS-LVC-100<br>TEMIS-LVC-120<br>TEMIS-LVC-121<br>TEMIS-LVC-1211 | | SHELTER |
| 22 | 16AWG 2-PAIR TWISTED SHIELDED PAIR | TEMIS-ADC-01 / CR-02 | TEMIS-ADC-01 | N/A | TEMIS-CR-02 | CARD READER | TEMIS-LVC-100<br>TEMIS-LVC-120<br>TEMIS-LVC-121<br>TEMIS-LVC-1211 | | SHELTER |
| 23 | 8C16AWG | TEMIS-ADC-01 / DHW-01 | TEMIS-ADC-01 | N/A | TEMIS-DHW-01 | DOOR HARDWARE AND SYSTEM | TEMIS-LVC-100<br>TEMIS-LVC-120<br>TEMIS-LVC-121<br>TEMIS-LVC-1211 | | SHELTER |
| 24 | 8C16AWG | TEMIS-ADC-01 / DHW-02 | TEMIS-ADC-01 | N/A | TEMIS-DHW-02 | DOOR HARDWARE AND SYSTEM | TEMIS-LVC-100<br>TEMIS-LVC-120<br>TEMIS-LVC-121<br>TEMIS-LVC-1211 | | SHELTER |

NOTES:

1. CABLES BETWEEN SPEAKERS CARRY THE ANALOG AUDIO AND SUPERVISION SIGNALS; THIS INTERFACE DOES NOT ACTUALLY USE ETHERNET.
2. REGARDLESS OF THE NUMBER OF 1196 SATELLITE SPEAKERS USED, CONNECT THE TERMINATION PLUG TO THE EMPTY "OUT/TERM" PORT ON THE LAST 1196 IN THE CHAIN.
3. THE 8196 IP POE+ HORN SPEAKER PROVIDES TWO DIFFERENT RJ45 JACKS: ONE FOR NETWORK CONNECTION, AND A SECOND FOR OPTIONALLY CONNECTING ADDITIONAL 1196 SATELLITE SPEAKERS.
4. CAT6 CONNECTION WIRING TO AN IEEE 802.3AF COMPLIANT NETWORK POE SWITCH MUST NOT LEAVE THE BUILDING PERIMETER WITHOUT ADEQUATE LIGHTNING PROTECTION.
5. SPEAKER CONNECTIONS: PATCH CABLE 4 PAIR UTP 24 AWG RJ45 PLUG TERMINATED T568A OR T568B "STRAIGHT-THROUGH". MAXIMUM RECOMMENDED PATCH CABLE LENGTH 50 FEET (13M) BETWEEN EACH SPEAKER.

| NO. | DATE | MODIFICATION | DRAWN | CHKD. | APPRVD. |
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Ontario Northland

GANNETT FLEMING

NORTHEAST PASSENGER RAIL SERVICE
ONTARIO, CANADA
REINSTATED STATIONS (PACKAGE 1 & 2)

GENERAL
COMMUNICATIONS
TEMISKAMING SHORES STATION
CABLE SCHEDULE

| | |
|---|---|
| CONTRACT NUMBER | 13258 |
| SCALE | N/A |
| DATE | 03/18/2024 |
| DRAWING NUMBER | T08-901 |
| SHEET | 135 |
| OF | 173 |

FILE NAME: C:\Users\vmnguyen\DC\ACCDocs\GANNETT FLEMING INC\073613-ONTC-NorthlanderPassengerRail\Project Files\Design\FAC\COMM\Wrkg\8_Temi\T08-901 Cable Schedules - Temiskaming.dwg
CREATED: 2024-01-23 MODIFIED: 2024-05-16 10:39

## CONDUIT SCHEDULE at TEMISKAMING SHORES STATION

| NUMBER | CONDUIT ID | FUNCTION | SIZE INCH | TYPE | FROM | TO | CABLE NUMBER | DRAWING | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 01 | TEMIS-LVC-100 | PVC CONDUIT FROM COMM CABINET TO HH#1 | 3 | PVC | TEMIS-CCAB-01 | TEMIS-CHH-01 | TEMIS-CISCO-01:02 / CAM-01<br>TEMIS-CISCO-01:03 / CAM-02<br>TEMIS-CISCO-01:04 / CAM-03<br>TEMIS-CISCO-01:05 / CAM-04<br>TEMIS-CISCO-01:06 / CAM-05<br>TEMIS-CISCO-01:07 / WAPD-01<br>TEMIS-CISCO-01:08 / 8196PAS-10<br>TEMIS-CISCO-01:09 / 8196PAS-20<br>TEMIS-CISCO-01:10 / PAI-01<br>TEMIS-CISCO-01:11 / PAI-02<br>~~TEMIS-CISCO-01:12 / LED-01~~<br>TEMIS-CISCO-01:13 / ADC-01<br>TEMIS-CISCO-01:14 / 8196PAS-11<br>~~TEMIS-ADC-01 / CR-01~~<br>TEMIS-ADC-01 / CR-02<br>TEMIS-ADC-01 / DHW-01<br>TEMIS-ADC-01 / DHW-02 | | |
| 02 | TEMIS-LVC-200 | SPARE CONDUIT FROM COMM CABINET TO END OF THE PLATFORM THROUGH HH#1, HH#2, HH#3, HH#4 AND HH#5 | 2 | PVC | TEMIS-CCAB-01 | TEMIS-CHH-05 | EMPTY | | |
| 03 | TEMIS-LVC-300 | SPARE CONDUIT FROM COMM CABINET TO END OF THE PLATFORM THROUGH HH#1, HH#2, HH#3, HH#4 AND HH#6 | 2 | PVC | TEMIS-CCAB-01 | TEMIS-CHH-05 | EMPTY | | |
| 04 | TEMIS-LVC-120 | PVC CONDUIT FROM HH#1 TO HH#2 FOR COMM SYSTEMS IN SHELTER | 2 | PVC | TEMIS-CHH-01 | TEMIS-CHH-02 | TEMIS-CISCO-01:03 / CAM-02<br>TEMIS-CISCO-01:07 / WAPD-01<br>TEMIS-CISCO-01:08 / 8196PAS-10<br>TEMIS-CISCO-01:10 / PAI-01<br>~~TEMIS-CISCO-01:12 / LED-01~~<br>TEMIS-CISCO-01:13 / ADC-01<br>TEMIS-CISCO-01:14 / 8196PAS-11<br>~~TEMIS-ADC-01 / CR-01~~<br>TEMIS-ADC-01 / CR-02<br>TEMIS-ADC-01 / DHW-01<br>TEMIS-ADC-01 / DHW-02 | | |
| 05 | TEMIS-LVC-130 | PVC CONDUIT FROM HH#1 TO HH#2 FOR COMM SYSTEMS IN PLATFORM | 2 | PVC | TEMIS-CHH-01 | TEMIS-CHH-02 | TEMIS-CISCO-01:04 / CAM-03<br>TEMIS-CISCO-01:05 / CAM-04<br>TEMIS-CISCO-01:06 / CAM-05<br>TEMIS-CISCO-01:09 / 8196PAS-20<br>TEMIS-CISCO-01:11 / PAI-02 | | |
| 06 | TEMIS-LVC-121 | PVC CONDUIT FROM HH#2 TO PULL BOX BEHIND ADVERTISING PANEL IN SHELTER | 2 | PVC | TEMIS-CHH-02 | TEMIS-ADPB-01 | TEMIS-CISCO-01:03 / CAM-02<br>TEMIS-CISCO-01:07 / WAPD-01<br>TEMIS-CISCO-01:08 / 8196PAS-10<br>TEMIS-CISCO-01:12 / LED-01<br>TEMIS-ADC-01 / CR-01<br>TEMIS-ADC-01 / CR-02<br>TEMIS-ADC-01 / DHW-01<br>TEMIS-ADC-01 / DHW-02 | | |
| 07 | TEMIS-LVC-1211 | RGS CONDUIT FROM PB BEHIND ADVERTISING PANEL TO PULL BOX ABOVE THE CEILING | 2 | RGS | TEMIS-ADPB-01 | TEMIS-CGPB-01 | TEMIS-CISCO-01:03 / CAM-02<br>TEMIS-CISCO-01:07 / WAPD-01<br>TEMIS-CISCO-01:08 / 8196PAS-10<br>TEMIS-ADC-01 / CR-01<br>TEMIS-ADC-01 / CR-02<br>TEMIS-ADC-01 / DHW-01<br>~~TEMIS-ADC-01 / DHW-02~~ | | |
| 08 | TEMIS-LVC-1212 | RGS CONDUIT FROM PB BEHIND ADVERTISING PANEL TO LED DISPLAY ENCLOSURE | 1 | RGS | TEMIS-ADPB-01 | TEMIS-LED-01 | ~~TEMIS-CISCO-01:12 / LED-01~~ | | |
| | TEMIS-LVC-122 | PVC CONDUIT FROM HH#2 TO STUB-IP FOR PAI-01 IN SHELTER | 1 | PVC | TEMIS-CHH-02 | TEMIS-PAI-01 | TEMIS-CISCO-01:10 / PAI-01 | | |
| 09 | TEMIS-LVC-123 | SPARE PVC CONDUIT FROM HH#2 TO STUB-UPS BEHIND ADVERTISING PANEL IN SHELTER | 2 | PVC | TEMIS-CHH-02 | TEMIS-ADPB-01 | EMPTY | | |
| 10 | TEMIS-LVC-124 | SPARE PVC CONDUIT FROM HH#2 TO STUB-UPS BEHIND ADVERTISING PANEL IN SHELTER | 2 | PVC | TEMIS-CHH-02 | TEMIS-ADPB-01 | EMPTY | | |
| 11 | TEMIS-LVC-110 | PVC CONDUIT FROM HH#1 TO CAMERA POLE IN THE PARKING LOT | 1 | PVC | TEMIS-CHH-01 | TEMIS-CAM-01 | TEMIS-CISCO-01:02 / CAM-01 | | |
| 12 | TEMIS-LVC-132 | PVC CONDUIT FROM HH#2 TO LIGHTNING POLE WITH 1196-PAS-11 | 1 | PVC | TEMIS-CHH-02 | TEMIS-1196PAS-11 | ~~TEMIS-CISCO-01:14 / 8196PAS-11~~<br>TEMIS-1196PAS-11 / 1196PAS-12 | | |
| 13 | TEMIS-LVC-133 | PVC CONDUIT FROM HH#2 TO LIGHTNING POLE WITH 1196-PAS-12 AND 1196-PAS-13 | 1 | PVC | TEMIS-CHH-02 | TEMIS-1196PAS-12 / TEMIS-1196PAS-13 | TEMIS-1196PAS-11 / 1196PAS-12 | | |
| 14 | TEMIS-LVC-134 | PVC CONDUIT FROM HH#2 TO LIGHTNING POLE WITH CAM-03 | 1 | PVC | TEMIS-CHH-02 | TEMIS-CAM-03 | TEMIS-CISCO-01:04 / CAM-03 | | |
| 15 | TEMIS-LVC-135 | PVC CONDUIT FROM HH#2 TO STUB-UP FOR PAI-02 AT PLATFORM | 1 | PVC | TEMIS-CHH-02 | TEMIS-PAI-02 | TEMIS-CISCO-01:11 / PAI-02 | | |
| 16 | TEMIS-LVC-131 | PVC CONDUIT FROM HH#2 TO HH#3 | 2 | PVC | TEMIS-CHH-02 | TEMIS-CHH-03 | TEMIS-CISCO-01:05 / CAM-04<br>TEMIS-CISCO-01:06 / CAM-05<br>TEMIS-CISCO-01:09 / 8196PAS-20 | | |
| 17 | TEMIS-LVC-1311 | PVC CONDUIT FROM HH#3 TO HH#4 | 2 | PVC | TEMIS-CHH-03 | TEMIS-CHH-04 | TEMIS-CISCO-01:06 / CAM-05<br>TEMIS-CISCO-01:09 / 8196PAS-20<br>TEMIS-1196PAS-22 / 1196PAS-23 | | |
| 18 | TEMIS-LVC-1312 | PVC CONDUIT FROM HH#3 TO LIGHTING POLE WITH 1196-PAS-23 AND CAM-04 | 1 | PVC | TEMIS-CHH-03 | TEMIS-1196PAS-23 / TEMIS-CAM-04 | TEMIS-CISCO-01:05 / CAM-04<br>TEMIS-1196PAS-22 / 1196PAS-23 | | |
| 19 | TEMIS-LVC-13111 | PVC CONDUIT FROM HH#4 TO HH#5 | 2 | PVC | TEMIS-CHH-04 | TEMIS-CHH-05 | TEMIS-CISCO-01:09 / 8196PAS-20<br>TEMIS-1196PAS-21 / 1196PAS-22 | | |
| 20 | TEMIS-LVC-13112 | PVC CONDUIT FROM HH#4 TO LIGHTING POLE WITH 1196-PAS-22 AND CAM-05 | 1 | PVC | TEMIS-CHH-04 | TEMIS-1196PAS-22 / TEMIS-CAM-05 | TEMIS-1196PAS-21 / 1196PAS-22<br>TEMIS-CISCO-01:06 / CAM-05<br>TEMIS-1196PAS-22 / 1196PAS-23 | | |
| 21 | TEMIS-LVC-131111 | PVC CONDUIT FROM HH#5 TO LIGHTING POLE WITH 8196-PAS-20 | 1 | PVC | TEMIS-CHH-05 | TEMIS-8196PAS-20 | TEMIS-CISCO-01:09 / 8196PAS-20<br>TEMIS-8196PAS-20 / 1196PAS-21 | | |
| 22 | TEMIS-LVC-131112 | PVC CONDUIT FROM HH#5 TO LIGHTING POLE WITH 1196-PAS-21 | 1 | PVC | TEMIS-CHH-05 | TEMIS-1196PAS-21 | TEMIS-8196PAS-20 / 1196PAS-21<br>TEMIS-1196PAS-21 / 1196PAS-22 | | |
| 23 | TEMIS-LVC-1213 | SPARE RGS CONDUIT FROM PB BEHIND ADVERTISING PANEL TO PULL BOX ABOVE THE CEILING | 2 | RGS | TEMIS-ADPB-01 | TEMIS-CGPB-01 | EMPTY | | |
| 24 | TEMIS-LVC-1214 | SPARE RGS CONDUIT FROM PB BEHIND ADVERTISING PANEL TO PULL BOX ABOVE THE CEILING | 2 | RGS | TEMIS-ADPB-01 | TEMIS-CGPB-01 | EMPTY | | |

IFT DESIGN
NOT FOR CONSTRUCTION

| NO. | DATE | MODIFICATION | DRAWN | CHKD. | APPRVD. |
|---|---|---|---|---|---|
| 1 | 05/17/24 | ADDENDUM NO. 1 | MN | NN | FK |

REVISIONS

| | |
|---|---|
| DESIGNED | NN |
| DRAWN | MN |
| CHECKED | NN |
| APPROVED | FK |

Ontario Northland

GANNETT FLEMING

NORTHEAST PASSENGER RAIL SERVICE
ONTARIO, CANADA
REINSTATED STATIONS (PACKAGE 1 & 2)

GENERAL
COMMUNICATIONS
TEMISKAMING SHORES STATION
CONDUIT SCHEDULE

| | |
|---|---|
| CONTRACT NUMBER | 13258 |
| SCALE | N/A |
| DATE | 03/18/2024 |
| DRAWING NUMBER | T08-902 |
| SHEET | 136 |
| OF | 173 |

FILE NAME: C:\Users\mnguyen\DC\ACCDocs\GANNETT FLEMING INC\073613-ONTC-NorthlanderPassengerRail\Project Files\Design\FAC\COMM\Wrkg\8_Tem\T08-902 Conduit Schedules - Temiskaming.dwg
CREATED: 2024-03-08 MODIFIED: 2024-05-16 18:11

| EQUIPMENT TAG | MANUFACTURER | MODEL NUMBER | DESCRIPTION | LOCATION | DRAWING | SUPPLIED BY | INSTALLED BY | CONFIGURED BY | COMMENT |
|---|---|---|---|---|---|---|---|---|---|
| ~~TEMIS-8196PAS-10~~ | ~~ALGO COMMUNICATION PRODUCTS LTD.~~ | ~~ALGO 8196~~ | ~~POE+ SPEAKER~~ | ~~SHELTER~~ | | ~~ONTC~~ | ~~CONTRACTOR~~ | ~~ONTC~~ | ~~48 V PoE IEEE 802.3af/at Max 25.5 W - Idle nominal 2.5 W~~ |
| TEMIS-8196PAS-11 | ALGO COMMUNICATION PRODUCTS LTD. | ALGO 8196 | POE+ SPEAKER | PLATFORM | | ONTC | CONTRACTOR | ONTC | 48 V PoE IEEE 802.3af/at Max 25.5 W - Idle nominal 2.5 W |
| ~~TEMIS-1196PAS-12~~ | ~~ALGO COMMUNICATION PRODUCTS LTD.~~ | ~~ALGO 1196~~ | ~~SATELLITE SPEAKER~~ | ~~PLATFORM~~ | | ~~ONTC~~ | ~~CONTRACTOR~~ | ~~ONTC~~ | ~~16 Watts (shared equally between 8196 and up to 3 x 1196)~~ |
| TEMIS-1196PAS-13 | ALGO COMMUNICATION PRODUCTS LTD. | ALGO 1196 | SATELLITE SPEAKER | PLATFORM | | ONTC | CONTRACTOR | ONTC | 16 Watts (shared equally between 8196 and up to 3 x 1196) |
| TEMIS-8196PAS-20 | ALGO COMMUNICATION PRODUCTS LTD. | ALGO 8196 | POE+ SPEAKER | PLATFORM | | ONTC | CONTRACTOR | ONTC | 48 V PoE IEEE 802.3af/at Max 25.5 W - Idle nominal 2.5 W |
| TEMIS-1196PAS-21 | ALGO COMMUNICATION PRODUCTS LTD. | ALGO 1196 | SATELLITE SPEAKER | PLATFORM | | ONTC | CONTRACTOR | ONTC | 16 Watts (shared equally between 8196 and up to 3 x 1196) |
| TEMIS-1196PAS-22 | ALGO COMMUNICATION PRODUCTS LTD. | ALGO 1196 | SATELLITE SPEAKER | PLATFORM | | ONTC | CONTRACTOR | ONTC | 16 Watts (shared equally between 8196 and up to 3 x 1196) |
| TEMIS-1196PAS-23 | ALGO COMMUNICATION PRODUCTS LTD. | ALGO 1196 | SATELLITE SPEAKER | PLATFORM | | ONTC | CONTRACTOR | ONTC | 16 Watts (shared equally between 8196 and up to 3 x 1196) |
| TEMIS-CAM-01 | VERKADA | CD62-E | OUTDOOR DOME CAMERA | PARKING LOT | | ONTC | CONTRACTOR | ONTC | MOUNTED ON A DEDICATED POLE / Extended Temperature Range: 20W (IEEE 802.3at PoE) |
| TEMIS-CAM-02 | VERKADA | CF81-E | FISHEYE CAMERA | SHELTER | | ONTC | CONTRACTOR | ONTC | IEEE 802.3at Type 2 PoE+ for Extended temperature range and assumes IR will be enabled |
| TEMIS-CAM-03 | VERKADA | CD62-E | OUTDOOR DOME CAMERA | PLATFORM | | ONTC | CONTRACTOR | ONTC | Extended Temperature Range: 20W (IEEE 802.3at PoE) |
| TEMIS-CAM-04 | VERKADA | CD62-E | OUTDOOR DOME CAMERA | PLATFORM | | ONTC | CONTRACTOR | ONTC | Extended Temperature Range: 20W (IEEE 802.3at PoE) |
| TEMIS-CAM-05 | VERKADA | CD62-E | OUTDOOR DOME CAMERA | PLATFORM | | ONTC | CONTRACTOR | ONTC | Extended Temperature Range: 20W (IEEE 802.3at PoE) |
| TEMIS-PAI-01 | TALKAPHONE | VOIP-600 | PASSENGER ASSISTANCE INTERCOM | SHELTER | | ONTC | CONTRACTOR | ONTC | Max:  +12VDC (800mA), +24VAC/DC (500mA), or PoE (+36VDC - 57VDC, 250mA) |
| TEMIS-PAI-02 | TALKAPHONE | VOIP-600 | PASSENGER ASSISTANCE INTERCOM | PLATFORM | | ONTC | CONTRACTOR | ONTC | Max:  +12VDC (800mA), +24VAC/DC (500mA), or PoE (+36VDC - 57VDC, 250mA) |
| TEMIS-CR-01 | VERKADA | AD33 | CARD READER | SHELTER | | ONTC | CONTRACTOR | ONTC | Power Consumption 12V, 300mA max / Requires Verkada Access Control Unit AC42 |
| TEMIS-CR-02 | VERKADA | AD33 | CARD READER | SHELTER | | ONTC | CONTRACTOR | ONTC | Power Consumption 12V, 300mA max / Requires Verkada Access Control Unit AC42 |
| TEMIS-DHW-01 | N/A | N/A | Door HW (DOOR CONTACT, LOCK, REX, DOOR OPERATOR) | SHELTER | | SHELTER SUPPLIER | SHELTER SUPPLIER | CONTRACTOR + ONTC | |
| TEMIS-DHW-02 | N/A | N/A | Door HW (DOOR CONTACT, LOCK, REX, DOOR OPERATOR) | SHELTER | | SHELTER SUPPLIER | SHELTER SUPPLIER | CONTRACTOR + ONTC | |
| TEMIS-WAPD-01 | MERAKI | CW9162 | WIFI ACCESS POINT DEVICE | SHELTER | | ONTC | CONTRACTOR | ONTC | POE: 37 - 42.5 V (802.3at compliant)/DC Power Adapter (12V)/ Power consumption: 30W |
| TEMIS-LED-01 | HANOVER DISPLAYS INC | TP.NT.DISP.16X96.001 | LED DISPLAY AND ENCLOSURE | SHELTER | | ONTC | CONTRACTOR | ONTC | 110 VAC / 105 W WHEN ALL LEDS LIT AT 100% VRIGHTNESS |
| TEMIS-ANT-01 | STARLINK | | STARLINK DISH TO BE CONNECTED TO ICOMERA ROUTER | COMMUNICATION CABINET | | ONTC | CONTRACTOR | ONTC | |
| TEMIS-ROUT-01 | ICOMERA | ICOMERA X6i | MOBILE COMMUNICATION ROUTER ICOMERA X6 | COMMUNICATION CABINET | | ONTC | CONTRACTOR | ONTC | Power Inputs: 24VDC / PowerConsumption <100W |
| TEMIS-SECU-01 | MERAKI | MERAKI MX64 | CLOUD MANAGED NETWORK SECURITY SYSTEM | COMMUNICATION CABINET | | ONTC | CONTRACTOR | ONTC | Power Supply 30W DC / Power Load (idle/max) 4W / 10W |
| TEMIS-ADC-01 | VERKADA | AC42 / ACC-BAT-4AH | ACCESS DOOR CONTROLLER / BATTERY BACKUP | COMMUNICATION CABINET | | ONTC | CONTRACTOR | ONTC | AC Power Input: 100-240VAC50/60Hz1.5A max / Power Consumption60W maximum |
| TEMIS-CISCO-01 | CISCO | C1000-16FP-2G-L | CISCO NETWORK SWITCH | COMMUNICATION CABINET | | ONTC | CONTRACTOR | ONTC | 110 to 220V AC / Power consumption 100% traffic: 16.68 watts |
| TEMIS-HTHER-01 | HAMMOND | SKT011409NC-C | HEATER THERMOSTAT | COMMUNICATION CABINET | | CONTRACTOR | CONTRACTOR | N/A | |
| TEMIS-VTHER-01 | HAMMOND | SKT011419NO-C | FAN THERMOSTAT | COMMUNICATION CABINET | | CONTRACTOR | CONTRACTOR | N/A | |
| TEMIS-VFAN-01 | | FT300HA1BK | VENTILATION FAN | COMMUNICATION CABINET | | CONTRACTOR | CONTRACTOR | N/A | |
| TEMIS-HEAT-01 | | SHV031149 | AIR HEATER | COMMUNICATION CABINET | | CONTRACTOR | CONTRACTOR | N/A | to be Installed on Inside of Door. Heater Employs a Built-In Temperature Limiter/ Thermal Shutoff. |
| TEMIS-DINR | | | DIN RAIL | COMMUNICATION CABINET | | CONTRACTOR | CONTRACTOR | N/A | |
| TEMIS-WIREWAY | PANDUIT | F2X2LG6 / C4LG6 | WIREWAY/ WIREDUCT / WIRE DUCT COVER | COMMUNICATION CABINET | | CONTRACTOR | CONTRACTOR | N/A | |
| TEMIS-PATCHP | | | PATCH PANELS | COMMUNICATION CABINET | | CONTRACTOR | CONTRACTOR | N/A | |
| TEMIS-CIRCUITB | | | CIRCUIT BREAKERS | COMMUNICATION CABINET | | CONTRACTOR | CONTRACTOR | N/A | |
| TEMIS-GBAR | | | GROUND BAR | COMMUNICATION CABINET | | CONTRACTOR | CONTRACTOR | N/A | |
| TEMIS-GFCIR | | | GFCI PROTECTED RECEPTACLES WITH USB C AND A | COMMUNICATION CABINET | | CONTRACTOR | CONTRACTOR | N/A | |
| TEMIS-TVSS | | | TVSS(TRANSIENT VOLTAGE SURGE SUPPRESSOR) | COMMUNICATION CABINET | | CONTRACTOR | CONTRACTOR | N/A | |
| TEMIS-DISSWCH | | | DISCONNECT SWITCH | COMMUNICATION CABINET | | CONTRACTOR | CONTRACTOR | N/A | |
| TEMIS-TEMP | CDW | EME1T5SNMP-R2 | SNMP TEMPERATURE SENSOR | COMMUNICATION CABINET | | CONTRACTOR | CONTRACTOR | ONTC | |
| NO TAG | | | WIRE REINFORCED AIR FILTERS / FIBERGLASS MESH SCREEN ON DISCHARGE/ COVER PLATES FOR LOUVERS / 3/4" POLYISO R4.5 INTERIOR INSULATION / HINGES / BACKPANEL / SHELVES / DOOR ARE VENT WITH FILTER MATERIAL / KEY-LOCK HANDLE / TERMINAL BLOCKS | COMMUNICATION CABINET | | CONTRACTOR | CONTRACTOR | N/A | |
| TEMIS-CCAB-01 | | | STAINLESS STEEL FREE STANDING COMMUNICATION CABINET | PLATFORM | | CONTRACTOR | CONTRACTOR | N/A | |
| TEMIS-CHH-01 | | | HANDHOLE #1 | PLATFORM | | CONTRACTOR | CONTRACTOR | N/A | |
| TEMIS-CHH-02 | | | HANDHOLE #2 | PLATFORM | | CONTRACTOR | CONTRACTOR | N/A | |
| TEMIS-CHH-03 | | | HANDHOLE #3 | PLATFORM | | CONTRACTOR | CONTRACTOR | N/A | |
| TEMIS-CHH-04 | | | HANDHOLE #4 | PLATFORM | | CONTRACTOR | CONTRACTOR | N/A | |
| TEMIS-CHH-05 | | | HANDHOLE #5 | PLATFORM | | CONTRACTOR | CONTRACTOR | N/A | |
| TEMIS-ADPB-01 | | | PULL BOX BEHIND THE ADVERTISING PANEL | SHELTER | | SUPPLIER | CONTRACTOR | N/A | |
| TEMIS-CGPB-01 | | | PULL BOX ABOVE ACM PANEL (ABOVE CEILING) | SHELTER | | SUPPLIER | CONTRACTOR | N/A | |

IFT DESIGN
NOT FOR CONSTRUCTION

| NO. | DATE | MODIFICATION | DRAWN | CHKD. | APPRVD. |
|---|---|---|---|---|---|
| 1 | 05/17/24 | ADDENDUM NO. 1 | MN | NN | FK |

REVISIONS

DESIGNED NN
DRAWN MN
CHECKED NN
APPROVED FK

Ontario Northland
GANNETT FLEMING

NORTHEAST PASSENGER RAIL SERVICE
ONTARIO, CANADA
REINSTATED STATIONS (PACKAGE 1 & 2)
GENERAL
COMMUNICATIONS
TEMISKAMING SHORES STATION
EQUIPMENT SCHEDULE

CONTRACT NUMBER 13258
SCALE N/A
DATE 03/18/2024
DRAWING NUMBER T08-903
SHEET 137 OF 173

ONTARIO NORTHLAND PROJECT NUMBER: 073613

FILE NAME: C:\Users\vmnguyen\DC\ACCDocs\GANNETT FLEMING INC\073613-ONTC-NorthlanderPassengerRail\Project Files\Design\FAC\COMM\Wrkg\8_Temi\T08-903 Equipment Schedules - Temiskaming.dwg
CREATED: 2024-03-08 MODIFIED: 2024-05-16 10:53

**LEGEND:**

CAT6 CABLE -

ACS DOOR CONTROL SYSTEM WIRING KIT:
(1) 8C16AWG :
- A. TWO (2) 16 AWG CONDUCTORS TO THE DOOR CONTACT
- B. THREE (3) 16 AWG CONDUCTORS TO THE EXIT REQUEST DEVICE (ERD)
- C. TWO (2) 16 AWG CONDUCTORS TO THE DOOR LOCKS

16AWG 2-PAIR TWISTED SHIELDED PAIR:
- A. 2-PAIR 16 AWG TWISTED SHIELDED TO CARD READER

22AWG CAT5E HIGH-PERFORMANCE STARLINK CABLE
CONNECTING STARLINK POWER SUPPLY TO STARLINK ANTENNA -

PATCH CABLE, 4-PAIR UTP (CAT5E), 22 AWG -

24AWG, CAT5E ROUTER CABLE -

TVSS -

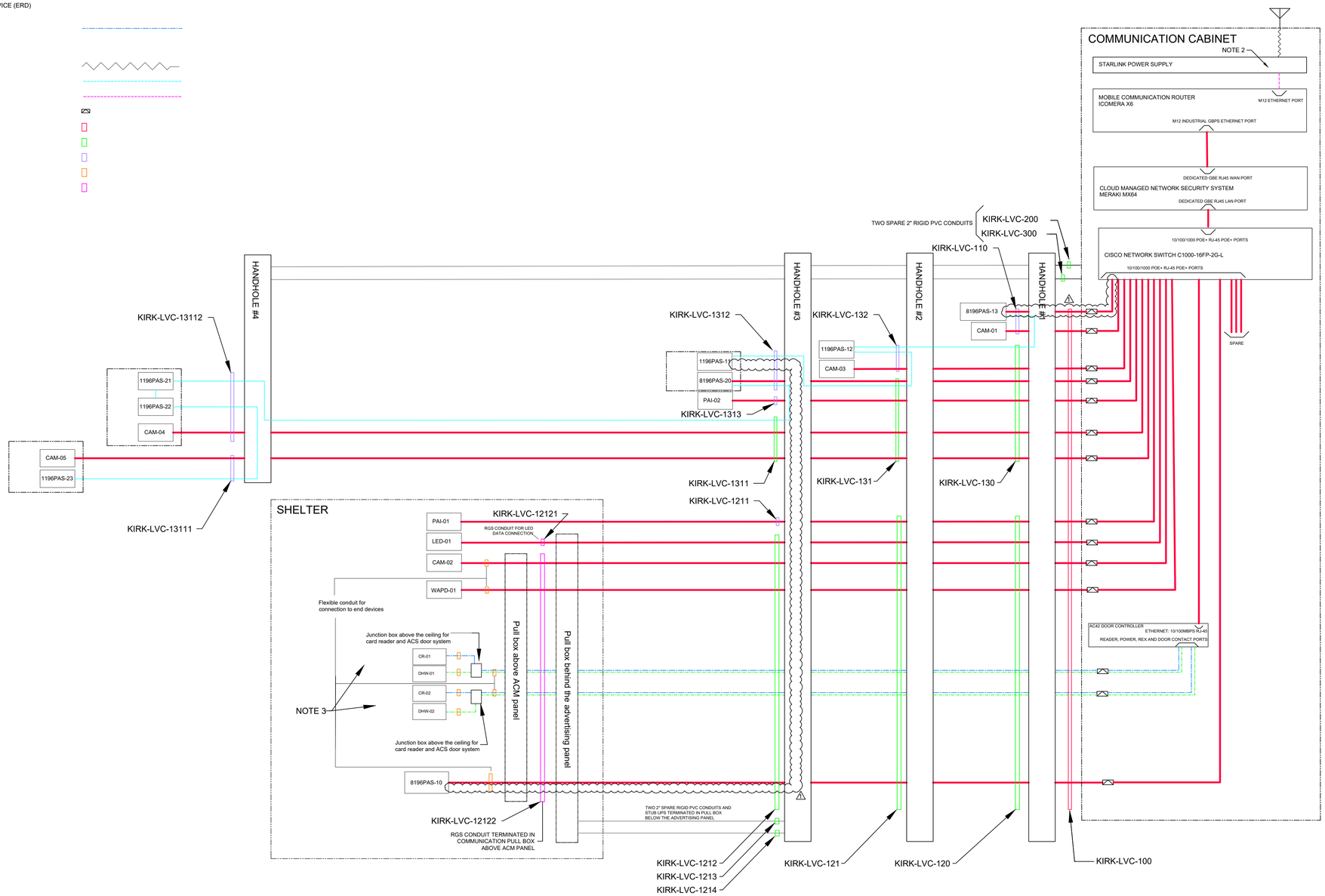
3" RIGID PVC CONDUIT -

2" RIGID PVC CONDUIT -

1" RIGID PVC CONDUIT -

FLEXIBLE CONDUIT -

RGS CONDUIT -




**NOTES:**

1. FOR SPEAKER CONNECTIONS, EMPLOY RJ45 PLUGS TERMINATED IN T568A OR T568B STRAIGHT-THROUGH CONFIGURATIONS. IT IS RECOMMENDED TO USE PATCH CABLES WITH A MAXIMUM LENGTH OF 50 FEET (13M) BETWEEN EACH SPEAKER.
2. FLAT HIGH-PERFORMANCE STARLINK ANTENNA TO BE SUPPLIED BY ONTC.
3. REFER TO ACCESS CONTROLLER DETAILS AND ARRANGEMENT ILLUSTRATED IN T30-005.
4. REFER TO EQUIPMENT, CABLE, AND CONDUIT SCHEDULES FOR FURTHER DETAILS AND ARRANGEMENTS.
5. FOR DETAILED INFORMATION REGARDING THE SPECIFIC LOCATIONS OF DEVICES AND HANDHOLES, REFER TO THE SITE PLAN DRAWINGS.
6. THE INTERCOM UNITS WITHIN THE SHELTER AND AT THE PLATFORM ARE MOUNTED ON A PEDESTAL. CONNECTIVITY IS ESTABLISHED VIA A DEDICATED 1-INCH CONDUIT RUNNING FROM THE HANDHOLE TO THE STUB-UP BENEATH THE PEDESTAL.

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| NO. | DATE | MODIFICATION | DRAWN | CHKD. | APPRVD. |
|---|---|---|---|---|---|
| 1 | 05/17/24 | ADDENDUM NO. 1 | MN | NN | FK |

REVISIONS

| | |
|---|---|
| DESIGNED | NN |
| DRAWN | MN |
| CHECKED | NN |
| APPROVED | FK |

Ontario Northland

GANNETT FLEMING

NORTHEAST PASSENGER RAIL SERVICE
ONTARIO, CANADA
REINSTATED STATIONS (PACKAGE 1 & 2)

GENERAL
COMMUNICATIONS
KIRKLAND LAKE - SWASTIKA STATION
SYSTEM OVERVIEW

| | | | |
|---|---|---|---|
| CONTRACT NUMBER | 13258 | | |
| SCALE | N/A | DATE | 03/18/2024 |
| DRAWING NUMBER | T10-001 | | |
| SHEET | 143 | OF | 173 |

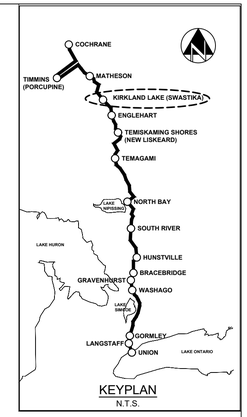
FILE NAME: C:\Users\nmguyen\DC\ACCDocs\GANNETT FLEMING INC\073613-ONTC-NorthlanderPassengerRail\Project Files\Design\FAC\COMM\Wrkg\10_Kirk\T10-001_Comms System Overview - Kirkland.dwg
CREATED: 2024-01-15
MODIFIED: 2024-05-16 23:31

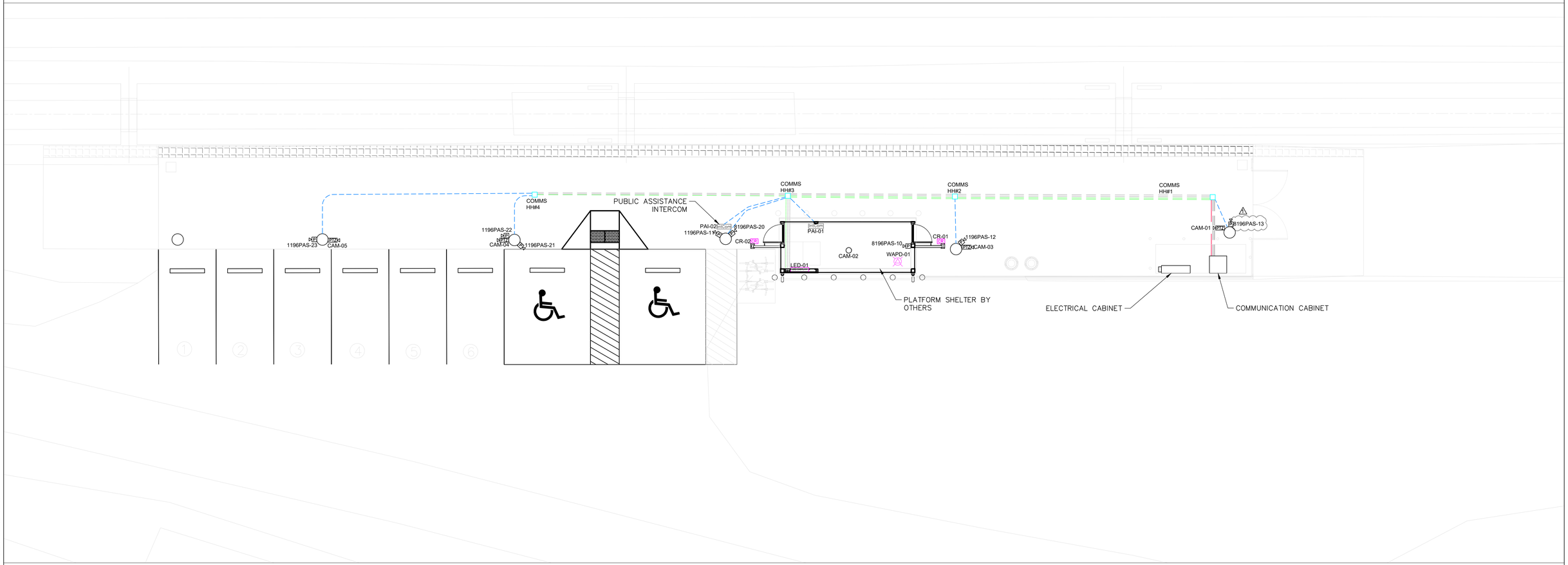
NOTES:

1. THE CONTRACTOR SHALL PROVIDE DEDICATED CONCRETE ENCASED DUCTBANKS TO MEET COMMS AND ELECTRICAL REQUIREMENTS. ALL COMMS AND ELECTRICAL SERVICES SHALL BE IN DEDICATED CONDUITS. THE CONTRACTOR SHALL FINALIZE THE FINAL ROUTING OF THE DUCTBANKS BASED ON THE SITE CONDITIONS.
2. THE CONTRACTOR SHALL PROVIDE THREE (3) 53MM STUB-UPS FOR ELECTRICAL AND THREE (3) 53MM STUB-UPS FOR COMMS FROM DEDICATED CONCRETE ENCASED DUCTBANKS. THE STUB-UPS SHALL BE PROVIDED 500 MM ABOVE FINISHED CONCRETE PAD FOR THE SHELTER.
3. 3 x 53MM RIGID PVC CONDUITS FOR ELECTRICAL AND 3 X 53MM RIGID PVC FOR COMMUNICATION TO BE TERMINATED IN THE RESPECTIVE TERMINATION BOXES PROVIDED BY SHELTER CONTRACTOR.
4. THE CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL UTILITY COMPANY IN THE AREA FOR THE FINAL ROUTE OF THE INCOMING POWER TO THE REINSTATED STATION.
5. FOR THE INSTALLATION OF COMMUNICATION SYSTEM COMPONENTS, INCLUDING BUT NOT LIMITED TO CAMERAS, SPEAKERS, INTERCOMS, AND RELATED EQUIPMENT WITHIN THE SHELTERS AT KIRKLAND LAKE STATION, REFER TO COMMUNICATION DRAWING T00-006.
6. FOR CONDUIT ARRANGEMENT DETAILS RELATED TO DEVICES IN THE SHELTER, REFER TO THE SHELTER DRAWINGS.
7. THE DEPICTED LOCATIONS AND ANGLES OF COMMUNICATION DEVICES IN THE SITE PLAN DRAWINGS ARE INDICATIVE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL THESE DEVICES STRATEGICALLY AND EFFICIENTLY TO ENSURE COMPREHENSIVE COVERAGE OF THE ENTIRE PLATFORM, PARKING LOT, AND OUTDOOR CABINETS. THE CONTRACTOR SHALL COORDINATE WITH ONTC FOR FINAL CAMERA ADJUSTMENTS.
8. THE CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH ONTC TO PROVIDE A DETAILED PLAN OUTLINING PRECISE LOCATIONS AND FIELDS OF VIEW (FOV) FOR CCTV CAMERA INSTALLATIONS ACROSS THE STATION. THIS PLAN WILL CONSIDER VARIOUS FACTORS, INCLUDING LINE OF SIGHT, COVERAGE AREA, AND THE INCLUSION OF PRIVACY REGIONS ON CAMERAS TO SAFEGUARD SENSITIVE INFORMATION.

LEGEND:

- 3" RIGID PVC CONDUIT -
- 2" RIGID PVC CONDUIT -
- 2" RIGID PVC CONDUIT (SPARE) -
- 1" RIGID PVC CONDUIT -
- FLEXIBLE CONDUIT -
- RGS CONDUIT -
- LIGHT POLE -
- COMMUNICATIONS HANDHOLE -




# KIRKLAND LAKE - SWASTIKA STATION
## ENLARGED PLAN

SCALE 1:100

0 1 2 4m

IFT DESIGN
NOT FOR CONSTRUCTION

| NO. | DATE | MODIFICATION | DRAWN | CHKD. | APPRVD. |
|---|---|---|---|---|---|
| | | | | | |
| 1 | 05/17/24 | ADDENDUM NO. 1 | MN | NN | FK |

REVISIONS

| | |
|---|---|
| DESIGNED | NN |
| DRAWN | MN |
| CHECKED | NN |
| APPROVED | FK |

Ontario Northland

GANNETT FLEMING

NORTHEAST PASSENGER RAIL SERVICE
ONTARIO, CANADA
REINSTATED STATIONS (PACKAGE 1 & 2)

KIRKLAND LAKE - SWASTIKA STATION
COMMUNICATIONS
ENLARGED PLAN

| | |
|---|---|
| CONTRACT NUMBER | 13258 |
| SCALE | 1:100 |
| DATE | 03/18/2024 |
| DRAWING NUMBER | T10-201 |
| SHEET | 144 |
| OF | 173 |

FILE NAME: C:\Users\mnguyen\DC\ACCDocs\GANNETT FLEMING INC\073613-ONTC-NorthlanderPassengerRail\Project Files\Design\PAC\COMM\Wrkg\10_Kirk\T10-201 - Site Plan - Kirk.dwg
CREATED: 2023-12-04
MODIFIED: 2024-05-16 15:41
PROJECT NUMBER: 073613
ONTARIO NORTHLAND

ONTARIO NORTHLAND PROJECT NUMBER: 073613

## INTERCONNECTION CABLE AND CABLE SCHEDULE at KIRKLAND LAKE STATION

| NUMBER | CABLE TYPE | CABLE ID | CABLE ORIGIN | SWITCH PORT# | CABLE DESTINATION | DEVICE TYPE | CONDUIT/RACEWAY NUMBER | DRAWING | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 01 | CAT6 | KIRK-CISCO-01:01 / SECU-01 | KIRK-CISCO-01 | 01 | KIRK-SECU-01 | SECURITY APPLIANCE (Meraki MX64) | n/a | | COMM CABINET |
| 02 | CAT6 | KIRK-CISCO-01:02 / CAM-01 | KIRK-CISCO-01 | 02 | KIRK-CAM-01 | OUTDOOR DOME CAMERA | KIRK-LVC-100<br>KIRK-LVC-110 | | PARKING LOT |
| 03 | CAT6 | KIRK-CISCO-01:03 / CAM-02 | KIRK-CISCO-01 | 03 | KIRK-CAM-02 | FISHEYE CAMERA | KIRK-LVC-100<br>KIRK-LVC-120<br>KIRK-LVC-121<br>KIRK-LVC-1212<br>KIRK-LVC-12122 | | SHELTER |
| 04 | CAT6 | KIRK-CISCO-01:04 / CAM-03 | KIRK-CISCO-01 | 04 | KIRK-CAM-03 | OUTDOOR DOME CAMERA | KIRK-LVC-100<br>KIRK-LVC-130<br>KIRK-LVC-132 | | PLATFORM |
| 05 | CAT6 | KIRK-CISCO-01:05 / CAM-04 | KIRK-CISCO-01 | 05 | KIRK-CAM-04 | OUTDOOR DOME CAMERA | KIRK-LVC-100<br>KIRK-LVC-130<br>KIRK-LVC-131<br>KIRK-LVC-1311<br>KIRK-LVC-13112 | | PLATFORM |
| 06 | CAT6 | KIRK-CISCO-01:06 / CAM-05 | KIRK-CISCO-01 | 06 | KIRK-CAM-05 | OUTDOOR DOME CAMERA | KIRK-LVC-100<br>KIRK-LVC-130<br>KIRK-LVC-131<br>KIRK-LVC-1311<br>KIRK-LVC-13111 | | PLATFORM |
| 07 | CAT6 | KIRK-CISCO-01:07 / WAPD-01 | KIRK-CISCO-01 | 07 | KIRK-WAPD-01 | Wi-Fi ACCESS POINT DEVICE | KIRK-LVC-100<br>KIRK-LVC-120<br>KIRK-LVC-121<br>KIRK-LVC-1212<br>KIRK-LVC-12122 | | SHELTER |
| 08 | CAT6 | KIRK-CISCO-01:08 / 8196PAS-10 | KIRK-CISCO-01 | 08 | KIRK-8196PAS-10 | POE PA SPEAKER, HORN | KIRK-LVC-100<br>KIRK-LVC-120<br>KIRK-LVC-121<br>KIRK-LVC-1212<br>KIRK-LVC-12122 | | SHELTER |
| 09 | CAT6 | KIRK-CISCO-01:09 / 8196PAS-20 | KIRK-CISCO-01 | 09 | KIRK-8196PAS-20 | POE PA SPEAKER, HORN | KIRK-LVC-100<br>KIRK-LVC-130<br>KIRK-LVC-131<br>KIRK-LVC-1312 | | PLATFORM |
| 10 | CAT6 | KIRK-CISCO-01:10 / PAI-01 | KIRK-CISCO-01 | 10 | KIRK-PAI-01 | INTERCOM | KIRK-LVC-100<br>KIRK-LVC-120<br>KIRK-LVC-121<br>KIRK-LVC-1211 | | SHELTER |
| 11 | CAT6 | KIRK-CISCO-01:11 / PAI-02 | KIRK-CISCO-01 | 11 | KIRK-PAI-02 | INTERCOM | KIRK-LVC-100<br>KIRK-LVC-130<br>KIRK-LVC-131<br>KIRK-LVC-1313 | | PLATFORM |
| 12 | CAT6 | KIRK-CISCO-01:12 / LED-01 | KIRK-CISCO-01 | 12 | KIRK-LED-01 | LED DISPLAY | KIRK-LVC-100<br>KIRK-LVC-120<br>KIRK-LVC-121<br>KIRK-LVC-1212<br>KIRK-LVC-12121 | | SHELTER |
| 13 | CAT6 | KIRK-CISCO-01:13 / ADC-01 | KIRK-CISCO-01 | 13 | KIRK-ADC-01 | ACS DOOR CONTROLLER | n/a | | COMM CABINET |
| 14 | CAT6 | KIRK-CISCO-01:14 / 8196PAS-13 | KIRK-CISCO-01 | 14 | KIRK-8196PAS-13 | POE PA SPEAKER, HORN | KIRK-LVC-100<br>KIRK-LVC-110 | | PLATFORM |
| 15 | CAT6 | KIRK-ROUT-01 / SECU-01 | KIRK-ROUT-01 | 01 | KIRK-SECU-01 | SECURITY APPLIANCE (Meraki MX64) | n/a | | COMM CABINET |
| 16 | Patch cable 4 Pair UTP 22 AWG | KIRK-1196PAS-11 / 1196PAS-12 | KIRK-1196PAS-11 | N/A | KIRK-1196PAS-12 | SATELLITE PA SPEAKER | KIRK-LVC-131<br>KIRK-LVC-132<br>KIRK-LVC-1312 | | PLATFORM |
| 17 | Patch cable 4 Pair UTP 22 AWG | KIRK-1196PAS-12 / 8196PAS-13 | KIRK-1196PAS-12 | N/A | KIRK-8196PAS-13 | SATELLITE PA SPEAKER | KIRK-LVC-110<br>KIRK-LVC-130<br>KIRK-LVC-132 | | On the same pole next to 1196PA-12 PLATFORM |
| 18 | Patch cable 4 Pair UTP 22 AWG | KIRK-8196PAS-20 / 1196PAS-21 | KIRK-8196PAS-20 | N/A | KIRK-8196PAS-21 | SATELLITE PA SPEAKER | KIRK-LVC-1312<br>KIRK-LVC-1311<br>KIRK-LVC-13112 | | PLATFORM |
| 19 | Patch cable 4 Pair UTP 22 AWG | KIRK-1196PAS-21 / 1196PAS-22 | KIRK-1196PAS-21 | N/A | KIRK-1196PAS-22 | SATELLITE PA SPEAKER | n/a | | PLATFORM |
| 20 | Patch cable 4 Pair UTP 22 AWG | KIRK-1196PAS-22 / 1196PAS-23 | KIRK-1196PAS-22 | N/A | KIRK-1196PAS-23 | SATELLITE PA SPEAKER | KIRK-LVC-13112<br>KIRK-LVC-13111 | | PLATFORM |
| 21 | 16AWG 2-PAIR TWSTED SHIELDED PAIR | KIRK-ADC-01 / CR-01 | KIRK-ADC-01 | N/A | KIRK-CR-01 | CARD READER | KIRK-LVC-100<br>KIRK-LVC-120<br>KIRK-LVC-121<br>KIRK-LVC-1212<br>KIRK-LVC-12122 | | SHELTER |
| 22 | 16AWG 2-PAIR TWSTED SHIELDED PAIR | KIRK-ADC-01 / CR-02 | KIRK-ADC-01 | N/A | KIRK-CR-02 | CARD READER | KIRK-LVC-100<br>KIRK-LVC-120<br>KIRK-LVC-121<br>KIRK-LVC-1212<br>KIRK-LVC-12122 | | SHELTER |
| 23 | 8C16AWG | KIRK-ADC-01 / DHW-01 | KIRK-ADC-01 | N/A | KIRK-DHW-01 | DOOR HARDWARE AND SYSTEM | KIRK-LVC-100<br>KIRK-LVC-120<br>KIRK-LVC-121<br>KIRK-LVC-1212<br>KIRK-LVC-12122 | | SHELTER |
| 24 | 8C16AWG | KIRK-ADC-01 / DHW-02 | KIRK-ADC-01 | N/A | KIRK-DHW-02 | DOOR HARDWARE AND SYSTEM | KIRK-LVC-100<br>KIRK-LVC-120<br>KIRK-LVC-121<br>KIRK-LVC-1212<br>KIRK-LVC-12122 | | SHELTER |

NOTES:

1. CABLES BETWEEN SPEAKERS CARRY THE ANALOG AUDIO AND SUPERVISION SIGNALS; THIS INTERFACE DOES NOT ACTUALLY USE ETHERNET.
2. REGARDLESS OF THE NUMBER OF 1196 SATELLITE SPEAKERS USED, CONNECT THE TERMINATION PLUG TO THE EMPTY "OUT/TERM" PORT ON THE LAST 1196 IN THE CHAIN.
3. THE 8196 IP POE+ HORN SPEAKER PROVIDES TWO DIFFERENT RJ45 JACKS: ONE FOR NETWORK CONNECTION, AND A SECOND FOR OPTIONALLY CONNECTING ADDITIONAL 1196 SATELLITE SPEAKERS.
4. CAT6 CONNECTION WIRING TO AN IEEE 802.3AF COMPLIANT NETWORK POE SWITCH MUST NOT LEAVE THE BUILDING PERIMETER WITHOUT ADEQUATE LIGHTNING PROTECTION.
5. SPEAKER CONNECTIONS: PATCH CABLE 4 PAIR UTP 24 AWG RJ45 PLUG TERMINATED T568A OR T568B "STRAIGHT-THROUGH". MAXIMUM RECOMMENDED PATCH CABLE LENGTH 50 FEET (13M) BETWEEN EACH SPEAKER.

FILE NAME: C:\Users\tmnguyen\DC\ACCDocs\GANNETT FLEMING INC\073613-ONTC-NorthlanderPassengerRail\Project Files\Design\FAC\COMM\Wrkg\10_Kirk\T10-901 Cable Schedules - Kirk.dwg
CREATED: 2024-01-22
MODIFIED: 2024-05-16 14:16

| NO. | DATE | MODIFICATION | DRAWN | CHKD. | APPRVD. |
|---|---|---|---|---|---|
| 1 | 05/17/24 | ADDENDUM NO. 1 | MN | NN | FK |

REVISIONS

IFT DESIGN
NOT FOR CONSTRUCTION

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| DESIGNED | NN |
| DRAWN | MN |
| CHECKED | NN |
| APPROVED | FK |

Ontario Northland

GANNETT FLEMING

NORTHEAST PASSENGER RAIL SERVICE
ONTARIO, CANADA
REINSTATED STATIONS (PACKAGE 1 & 2)

GENERAL
COMMUNICATIONS
KIRKLAND LAKE - SWASTIKA STATION
CABLE SCHEDULE

| | |
|---|---|
| CONTRACT NUMBER | 13258 |
| SCALE | N/A |
| DATE | 03/18/2024 |
| DRAWING NUMBER | T10-901 |
| SHEET | 145 |
| OF | 173 |

# CONDUIT SCHEDULE at KIRKLAND LAKE STATION

| NUMBER | CONDUIT ID | FUNCTION | SIZE INCH | TYPE | FROM | TO | CABLE NUMBER | DRAWING | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 01 | KIRK-LVC-100 | PVC CONDUIT FROM COMM CABINET TO HH#1 | 3 | PVC | KIRK-CCAB-01 | KIRK-CHH-01 | KIRK-CISCO-01:02 / CAM-01<br>KIRK-CISCO-01:03 / CAM-02<br>KIRK-CISCO-01:04 / CAM-03<br>KIRK-CISCO-01:05 / CAM-04<br>KIRK-CISCO-01:06 / CAM-05<br>KIRK-CISCO-01:07 / WAPD-01<br>KIRK-CISCO-01:08 / 8196PAS-10<br>KIRK-CISCO-01:09 / 8196PAS-20<br>KIRK-CISCO-01:10 / PAI-01<br>KIRK-CISCO-01:11 / PAI-02<br>~~KIRK-CISCO-01:12 / LED-01~~<br>KIRK-CISCO-01:13 / ADC-01<br>KIRK-CISCO-01:14 / 8196PAS-13<br>~~KIRK-ADC-01 / CR-01~~<br>KIRK-ADC-01 / CR-02<br>KIRK-ADC-01 / DHW-01<br>KIRK-ADC-01 / DHW-02 | | |
| 02 | KIRK-LVC-200 | SPARE CONDUIT FROM COMM CABINET TO END OF THE PLATFORM THROUGH HH#1, HH#2, HH#3 and HH#4 | 2 | PVC | KIRK-CCAB-01 | KIRK-CHH-04 | EMPTY | | |
| 03 | KIRK-LVC-300 | SPARE CONDUIT FROM COMM CABINET TO END OF THE PLATFORM THROUGH HH#1, HH#2, HH#3 and HH#4 | 2 | PVC | KIRK-CCAB-01 | KIRK-CHH-04 | EMPTY | | |
| 04 | KIRK-LVC-110 | PVC CONDUIT FROM HH#1 TO CAM-01 AND 1196PAS-13 | 1 | PVC | KIRK-CCAB-01 | KIRK-8196PAS-13 / KIRK-CAM-01 | ~~KIRK-CISCO-01:02 / CAM-01~~<br>KIRK-CISCO-01:14 / 8196PAS-13<br>KIRK-1196PAS-12 / 8196PAS-13<br>~~KIRK-CISCO-01:03 / CAM-02~~ | | |
| 05 | KIRK-LVC-120 | PVC CONDUIT FROM HH#1 TO HH#2 FOR COMM SYSTEMS IN SHELTER | 2 | PVC | KIRK-CHH-01 | KIRK-CHH-02 | KIRK-CISCO-01:07 / WAPD-01<br>KIRK-CISCO-01:08 / 8196PAS-10<br>KIRK-CISCO-01:10 / PAI-01<br>KIRK-CISCO-01:12 / LED-01<br>KIRK-ADC-01 / CR-01<br>KIRK-ADC-01 / CR-02<br>KIRK-ADC-01 / DHW-01<br>KIRK-ADC-01 / DHW-02 | | |
| 06 | KIRK-LVC-121 | PVC CONDUIT FROM HH#2 TO HH#3 FOR COMM SYSTEMS IN SHELTER | 2 | PVC | KIRK-CHH-02 | KIRK-CHH-03 | KIRK-CISCO-01:03 / CAM-02<br>KIRK-CISCO-01:07 / WAPD-01<br>KIRK-CISCO-01:08 / 8196PAS-10<br>KIRK-CISCO-01:10 / PAI-01<br>KIRK-CISCO-01:12 / LED-01<br>KIRK-ADC-01 / CR-01<br>KIRK-ADC-01 / CR-02<br>KIRK-ADC-01 / DHW-01<br>KIRK-ADC-01 / DHW-02 | | |
| 07 | KIRK-LVC-130 | PVC CONDUIT FROM HH#1 TO HH#2 FOR COMM SYSTEMS IN PLATFORM | 2 | PVC | KIRK-CHH-01 | KIRK-CHH-02 | KIRK-CISCO-01:04 / CAM-03<br>KIRK-CISCO-01:05 / CAM-04<br>KIRK-CISCO-01:06 / CAM-05<br>KIRK-CISCO-01:09 / 8196PAS-20<br>~~KIRK-CISCO-01:11 / PAI-02~~<br>KIRK-1196PAS-12 / 8196PAS-13<br>~~KIRK-CISCO-01:05 / CAM-04~~ | | |
| 08 | KIRK-LVC-131 | PVC CONDUIT FROM HH#2 TO HH#3 FOR COMMS SYSTEMS IN PLATFORM | 2 | PVC | KIRK-CHH-02 | KIRK-CHH-03 | KIRK-CISCO-01:06 / CAM-05<br>KIRK-CISCO-01:09 / 8196PAS-20<br>KIRK-CISCO-01:11 / PAI-02<br>KIRK-1196PAS-11 / 1196PAS-12 | | |
| 09 | KIRK-LVC-132 | PVC CONDUIT FROM HH#2 TO CAM-03 AND 1196PAS-12 | 1 | | KIRK-CHH-02 | KIRK-1196PAS-12 / KIRK-CAM-03 | KIRK-CISCO-01:04 / CAM-03<br>~~KIRK-1196PAS-11 / 1196PAS-12~~<br>KIRK-1196PAS-12 / 8196PAS-13<br>~~KIRK-CISCO-01:10 / PAI-01~~ | | |
| 10 | KIRK-LVC-1211 | PVC CONDUIT FROM HH#3 TO STUB-UP FOR PAI-02 AT PLATFORM | 1 | PVC | KIRK-CHH-03 | KIRK-PAI-01 | | | |
| 11 | KIRK-LVC-1212 | PVC CONDUIT FROM HH#3 TO STUB-UPS BEHIND ADVERTISING PANEL IN SHELTER | 2 | PVC | KIRK-CHH-03 | KIRK-ADPB-01 | KIRK-CISCO-01:03 / CAM-02<br>KIRK-CISCO-01:07 / WAPD-01<br>KIRK-CISCO-01:08 / 8196PAS-10<br>KIRK-CISCO-01:12 / LED-01<br>KIRK-ADC-01 / CR-01<br>KIRK-ADC-01 / CR-02<br>KIRK-ADC-01 / DHW-01<br>KIRK-ADC-01 / DHW-02 | | |
| 12 | KIRK-LVC-1213 | SPARE PVC CONDUIT FROM HH#3 TO PULL BOX BEHIND ADVERTISING PANEL IN SHELTER | 2 | PVC | KIRK-CHH-03 | KIRK-ADPB-01 | EMPTY | | |
| 13 | KIRK-LVC-1214 | SPARE PVC CONDUIT FROM HH#3 TO PULL BOX BEHIND ADVERTISING PANEL IN SHELTER | 2 | PVC | KIRK-CHH-03 | KIRK-ADPB-01 | EMPTY | | |
| 14 | KIRK-LVC-12121 | RGS CONDUIT FROM PULL BOX BEHIND ADVERTISING PANEL TO LED ENCLOSURE | 1 | RGS | KIRK-ADPB-01 | KIRK-LED-01 | KIRK-CISCO-01:12 / LED-01 | | |
| 15 | KIRK-LVC-12122 | RGS CONDUIT FROM PULL BOX BEHIND ADVERTISING PANEL TO PULL BOX ABOVE CEILING | 2 | RGS | KIRK-ADPB-01 | KIRK-CGPB-01 | KIRK-CISCO-01:03 / CAM-02<br>KIRK-CISCO-01:07 / WAPD-01<br>~~KIRK-CISCO-01:08 / 8196PAS-10~~<br>~~KIRK-ADC-01 / CR-01~~<br>KIRK-ADC-01 / CR-02<br>KIRK-ADC-01 / DHW-01<br>KIRK-ADC-01 / DHW-02 | | |
| 16 | KIRK-LVC-12123 | SPARE RGS CONDUIT FROM PULL BOX BEHIND ADVERTISING PANEL TO PULL BOX ABOVE CEILING | 2 | RGS | KIRK-ADPB-01 | KIRK-CGPB-01 | EMPTY | | |
| 17 | KIRK-LVC-12124 | SPARE RGS CONDUIT FROM PULL BOX BEHIND ADVERTISING PANEL TO PULL BOX ABOVE CEILING | 2 | RGS | KIRK-ADPB-01 | KIRK-CGPB-01 | EMPTY | | |
| 18 | KIRK-LVC-1311 | PVC CONDUIT FROM HH#3 TO HH#4 | 2 | PVC | KIRK-CHH-03 | KIRK-CHH-04 | KIRK-CISCO-01:05 / CAM-04<br>KIRK-CISCO-01:06 / CAM-05<br>KIRK-8196PAS-20 / 1196PAS-21 | | |
| 19 | KIRK-LVC-1312 | PVC CONDUIT FROM HH#3 TO LIGHTING POLE WITH 1196PAS-11 AND 8196PAS-20 | 1 | PVC | KIRK-CHH-03 | KIRK-1196PAS-11 / KIRK-8196PAS-20 | ~~KIRK-CISCO-01:09 / 8196PAS-20~~<br>~~KIRK-1196PAS-11 / 1196PAS-12~~<br>KIRK-8196PAS-20 / 1196PAS-21 | | |
| 20 | KIRK-LVC-1313 | PVC CONDUIT FROM HH#3 TO PAI-02 | 1 | PVC | KIRK-CHH-03 | KIRK-PAI-02 | KIRK-CISCO-01:11 / PAI-02 | | |
| 21 | KIRK-LVC-13111 | PVC CONDUIT FROM HH#4 TO LIGHTING POLE WITH 1196PAS-23 AND CAM-05 | 1 | PVC | KIRK-CHH-04 | KIRK-1196PAS-23 / KIRK-CAM-05 | KIRK-CISCO-01:06 / CAM-05<br>KIRK-1196PAS-22 / 1196PAS-23 | | |
| 22 | KIRK-LVC-13112 | PVC CONDUIT FROM HH#4 TO LIGHTING POLE WITH 1196PAS-21, 1196PAS-22 AND CAM-04 | 1 | PVC | KIRK-CHH-04 | KIRK-1196PAS-21 / KIRK-1196PAS-22 / KIRK-CAM-04 | KIRK-CISCO-01:05 / CAM-04<br>KIRK-8196PAS-20 / 1196PAS-21<br>KIRK-1196PAS-22 / 1196PAS-23 | | |

IFT DESIGN
NOT FOR CONSTRUCTION

| NO. | DATE | MODIFICATION | DRAWN | CHKD. | APPRVD. |
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| 1 | 05/17/24 | ADDENDUM NO. 1 | MN | NN | FK |

REVISIONS

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| DESIGNED | NN |
| DRAWN | MN |
| CHECKED | NN |
| APPROVED | FK |

Ontario Northland

GANNETT FLEMING

NORTHEAST PASSENGER RAIL SERVICE
ONTARIO, CANADA
REINSTATED STATIONS (PACKAGE 1 & 2)

GENERAL
COMMUNICATIONS
KIRKLAND LAKE - SWASTIKA STATION
CONDUIT SCHEDULE

| | |
|---|---|
| CONTRACT NUMBER | 13258 |
| SCALE N/A | DATE 03/18/2024 |
| DRAWING NUMBER | T10-902 |
| SHEET 146 | OF 173 |

FILE NAME: C:\Users\vnguyen\DC\ACCDocs\GANNETT FLEMING INC\073613-ONTC-NorthlanderPassengerRail\Project Files\Design\FAC\COMM\Wrkg\10_Kirk\T10-902 Conduit Schedule - Kirk.dwg
CREATED: 2024-03-08
MODIFIED: 2024-05-16 14:12
ONTARIO NORTHLAND PROJECT NUMBER: 073613

| EQUIPMENT TAG | MANUFACTURER | MODEL NUMBER | DESCRIPTION | LOCATION | DRAWING | SUPPLIED BY | INSTALLED BY | CONFIGURED BY | COMMENT |
|---|---|---|---|---|---|---|---|---|---|
| KIRK-8196PAS-10 | ALGO COMMUNICATION PRODUCTS LTD. | ALGO 8196 | POE+ SPEAKER | SHELTER | | ONTC | CONTRACTOR | ONTC | 48 V PoE IEEE 802.3af/at Max 25.5 W - Idle nominal 2.5 W |
| KIRK-1196PAS-11 | ALGO COMMUNICATION PRODUCTS LTD. | ALGO 1196 | SATELLITE SPEAKER | PLATFORM | | ONTC | CONTRACTOR | ONTC | 16 Watts (shared equally between 8196 and up to 3 x 1196) |
| ~~KIRK-1196PAS-12~~ | ~~ALGO COMMUNICATION PRODUCTS LTD.~~ | ~~ALGO 1196~~ | ~~SATELLITE SPEAKER~~ | ~~PLATFORM~~ | | ~~ONTC~~ | ~~CONTRACTOR~~ | ~~ONTC~~ | ~~16 Watts (shared equally between 8196 and up to 3 x 1196)~~ |
| KIRK-8196PAS-13 | ALGO COMMUNICATION PRODUCTS LTD. | ALGO 8196 | POE+ SPEAKER | PLATFORM | | ONTC | CONTRACTOR | ONTC | 48 V PoE IEEE 802.3af/at Max 25.5 W - Idle nominal 2.5 W |
| ~~KIRK-8196PAS-20~~ | ~~ALGO COMMUNICATION PRODUCTS LTD.~~ | ~~ALGO 8196~~ | ~~POE+ SPEAKER~~ | ~~PLATFORM~~ | | ~~ONTC~~ | ~~CONTRACTOR~~ | ~~ONTC~~ | ~~48 V PoE IEEE 802.3af/at Max 25.5 W - Idle nominal 2.5 W~~ |
| KIRK-1196PAS-21 | ALGO COMMUNICATION PRODUCTS LTD. | ALGO 1196 | SATELLITE SPEAKER | PLATFORM | | ONTC | CONTRACTOR | ONTC | 16 Watts (shared equally between 8196 and up to 3 x 1196) |
| KIRK-1196PAS-22 | ALGO COMMUNICATION PRODUCTS LTD. | ALGO 1196 | SATELLITE SPEAKER | PLATFORM | | ONTC | CONTRACTOR | ONTC | 16 Watts (shared equally between 8196 and up to 3 x 1196) |
| KIRK-1196PAS-23 | ALGO COMMUNICATION PRODUCTS LTD. | ALGO 1196 | SATELLITE SPEAKER | PLATFORM | | ONTC | CONTRACTOR | ONTC | 16 Watts (shared equally between 8196 and up to 3 x 1196) |
| KIRK-CAM-01 | VERKADA | CD62-E | OUTDOOR DOME CAMERA | PARKING LOT | | ONTC | CONTRACTOR | ONTC | IEEE 802.3at Type 2 PoE+ for Extended temperature range and assumes IR will be enabled |
| KIRK-CAM-02 | VERKADA | CF81-E | FISHEYE CAMERA | SHELTER | | ONTC | CONTRACTOR | ONTC | IEEE 802.3at Type 2 PoE+ for Extended temperature range and assumes IR will be enabled |
| KIRK-CAM-03 | VERKADA | CD62-E | OUTDOOR DOME CAMERA | PLATFORM | | ONTC | CONTRACTOR | ONTC | Extended Temperature Range: 20W (IEEE 802.3at PoE) |
| KIRK-CAM-04 | VERKADA | CD62-E | OUTDOOR DOME CAMERA | PLATFORM | | ONTC | CONTRACTOR | ONTC | Extended Temperature Range: 20W (IEEE 802.3at PoE) |
| KIRK-CAM-05 | VERKADA | CD62-E | OUTDOOR DOME CAMERA | PLATFORM | | ONTC | CONTRACTOR | ONTC | Extended Temperature Range: 20W (IEEE 802.3at PoE) |
| KIRK-PAI-01 | TALKAPHONE | VOIP-600 | PASSENGER ASSISTANCE INTERCOM | SHELTER | | ONTC | CONTRACTOR | ONTC | Max: +12VDC (800mA), +24VAC/DC (500mA), or PoE (+36VDC - 57VDC, 250mA) |
| KIRK-PAI-02 | TALKAPHONE | VOIP-600 | PASSENGER ASSISTANCE INTERCOM | PLATFORM | | ONTC | CONTRACTOR | ONTC | Max: +12VDC (800mA), +24VAC/DC (500mA), or PoE (+36VDC - 57VDC, 250mA) |
| KIRK-CR-01 | VERKADA | AD33 | CARD READER | SHELTER | | ONTC | CONTRACTOR | ONTC | Power Consumption 12V, 300mA max / Requires Verkada Access Control Unit AC42 |
| KIRK-CR-02 | VERKADA | AD33 | CARD READER | SHELTER | | ONTC | CONTRACTOR | ONTC | Power Consumption 12V, 300mA max / Requires Verkada Access Control Unit AC42 |
| KIRK-DHW-01 | N/A | N/A | Door HW (DOOR CONTACT, LOCK, REX, DOOR OPERATOR) | SHELTER | | SHELTER SUPPLIER | SHELTER SUPPLIER | CONTRACTOR + ONTC | |
| KIRK-DHW-02 | N/A | N/A | Door HW (DOOR CONTACT, LOCK, REX, DOOR OPERATOR) | SHELTER | | SHELTER SUPPLIER | SHELTER SUPPLIER | CONTRACTOR + ONTC | |
| KIRK-WAPD-01 | MERAKI | CW9162 | WIFI ACCESS POINT DEVICE | SHELTER | | ONTC | CONTRACTOR | ONTC | POE: 37 - 42.5 V (802.3at compliant)/DC Power Adapter (12V)/ Power consumption: 30W |
| KIRK-LED-01 | HANOVER DISPLAYS INC | TP.NT.DISP.16X96.001 | LED DISPLAY AND ENCLOSURE | SHELTER | | ONTC | CONTRACTOR | ONTC | 110 VAC / 105 W WHEN ALL LEDS LIT AT 100% VRIGHTNESS |
| KIRK-ANT-01 | STARLINK | | STARLINK DISH TO BE CONNECTED TO ICOMERA ROUTER | COMMUNICATION CABINET | | ONTC | CONTRACTOR | ONTC | |
| KIRK-ROUT-01 | ICOMERA | ICOMERA X6i | MOBILE COMMUNICATION ROUTER ICOMERA X6 | COMMUNICATION CABINET | | ONTC | CONTRACTOR | ONTC | Power Inputs: 24VDC / PowerConsumption <100W |
| KIRK-SECU-01 | MERAKI | MERAKI MX64 | CLOUD MANAGED NETWORK SECURITY SYSTEM | COMMUNICATION CABINET | | ONTC | CONTRACTOR | ONTC | Power Supply 30W DC / Power Load (idle/max) 4W / 10W |
| KIRK-ADC-01 | VERKADA | AC42 / ACC-BAT-4AH | ACCESS DOOR CONTROLLER / BATTERY BACKUP | COMMUNICATION CABINET | | ONTC | CONTRACTOR | ONTC | AC Power Input: 100-240VAC50/60Hz1.5A max / Power Consumption60W maximum |
| KIRK-CISCO-01 | CISCO | C1000-16FP-2G-L | CISCO NETWORK SWITCH | COMMUNICATION CABINET | | ONTC | CONTRACTOR | ONTC | 110 to 220V AC / Power consumption 100% traffic: 16.68 watts |
| KIRK-HTHER-01 | HAMMOND | SKT011409NC-C | HEATER THERMOSTAT | COMMUNICATION CABINET | | CONTRACTOR | CONTRACTOR | N/A | |
| KIRK-VTHER-01 | HAMMOND | SKT011419NO-C | FAN THERMOSTAT | COMMUNICATION CABINET | | CONTRACTOR | CONTRACTOR | N/A | |
| KIRK-VFAN-01 | | FT300HA1BK | VENTILATION FAN | COMMUNICATION CABINET | | CONTRACTOR | CONTRACTOR | N/A | |
| KIRK-HEAT-01 | | SHV031149 | AIR HEATER | COMMUNICATION CABINET | | CONTRACTOR | CONTRACTOR | N/A | to be Installed on Inside of Door. Heater Employs a Built-In Temperature Limiter/ Thermal Shutoff. |
| KIRK-DINR | | | DIN RAIL | COMMUNICATION CABINET | | CONTRACTOR | CONTRACTOR | N/A | |
| KIRK-WIREWAY | PANDUIT | F2X2LG6 / C4LG6 | WIREWAY/ WIREDUCT / WIRE DUCT COVER | COMMUNICATION CABINET | | CONTRACTOR | CONTRACTOR | N/A | |
| KIRK-PATCHP | | | PATCH PANELS | COMMUNICATION CABINET | | CONTRACTOR | CONTRACTOR | N/A | |
| KIRK-CIRCUITB | | | CIRCUIT BREAKERS | COMMUNICATION CABINET | | CONTRACTOR | CONTRACTOR | N/A | |
| KIRK-GBAR | | | GROUND BAR | COMMUNICATION CABINET | | CONTRACTOR | CONTRACTOR | N/A | |
| KIRK-GFCIR | | | GFCI PROTECTED RECEPTACLES WITH USB C AND A | COMMUNICATION CABINET | | CONTRACTOR | CONTRACTOR | N/A | |
| KIRK-TVSS | | | TVSS(TRANSIENT VOLTAGE SURGE SUPPRESSOR) | COMMUNICATION CABINET | | CONTRACTOR | CONTRACTOR | N/A | |
| KIRK-DISSWCH | | | DISCONNECT SWITCH | COMMUNICATION CABINET | | CONTRACTOR | CONTRACTOR | N/A | |
| KIRK-TEMP | CDW | EME1T5SNMP-R2 | SNMP TEMPERATURE SENSOR | COMMUNICATION CABINET | | CONTRACTOR | CONTRACTOR | ONTC | |
| NO TAG | | | WIRE REINFORCED AIR FILTERS / FIBERGLASS MESH SCREEN ON DISCHARGE/ COVER PLATES FOR LOUVERS / 3/4" POLYISO R4.5 INTERIOR INSULATION / HINGES / BACKPANEL / SHELVES / DOOR ARE VENT WITH FILTER MATERIAL / KEY-LOCK HANDLE / TERMINAL BLOCKS | COMMUNICATION CABINET | | CONTRACTOR | CONTRACTOR | N/A | |
| KIRK-CCAB-01 | | | STAINLESS STEEL FREE STANDING COMMUNICATION CABINET | PLATFORM | | CONTRACTOR | CONTRACTOR | N/A | |
| KIRK-CHH-01 | | | HANDHOLE #1 | PLATFORM | | CONTRACTOR | CONTRACTOR | N/A | |
| KIRK-CHH-02 | | | HANDHOLE #2 | PLATFORM | | CONTRACTOR | CONTRACTOR | N/A | |
| KIRK-CHH-03 | | | HANDHOLE #3 | PLATFORM | | CONTRACTOR | CONTRACTOR | N/A | |
| KIRK-CHH-04 | | | HANDHOLE #4 | PLATFORM | | CONTRACTOR | CONTRACTOR | N/A | |
| KIRK-ADPB-01 | | | PULL BOX BEHIND THE ADVERTISING PANEL | SHELTER | | SUPPLIER | CONTRACTOR | N/A | |
| KIRK-CGPB-01 | | | PULL BOX ABOVE ACM PANEL (ABOVE CEILING) | SHELTER | | SUPPLIER | CONTRACTOR | N/A | |

| NO. | DATE | MODIFICATION | DRAWN | CHKD. | APPRVD. |
|---|---|---|---|---|---|
| 1 | 05/17/24 | ADDENDUM NO. 1 | MN | NN | FK |

REVISIONS

IFT DESIGN
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|---|---|
| DESIGNED | NN |
| DRAWN | MN |
| CHECKED | NN |
| APPROVED | FK |

Ontario Northland

GANNETT FLEMING

NORTHEAST PASSENGER RAIL SERVICE
ONTARIO, CANADA
REINSTATED STATIONS (PACKAGE 1 & 2)

GENERAL
COMMUNICATIONS
KIRKLAND LAKE - SWASTIKA STATION
EQUIPMENT SCHEDULE

| | |
|---|---|
| CONTRACT NUMBER | 13258 |
| SCALE | N/A |
| DATE | 03/18/2024 |
| DRAWING NUMBER | T10-903 |
| SHEET | 147 |
| OF | 173 |

ONTARIO NORTHLAND PROJECT NUMBER: 073613

FILE NAME: C:\Users\mnguyen\DC\ACCDocs\GANNETT FLEMING INC\073613-ONTC-NorthlanderPassengerRail\Project Files\Design\FAC\COMM\Wrkg\10_Kirk\T10-903 Equipment Schedule - Kirk.dwg
CREATED: 2024-03-08 MODIFIED: 2024-05-16 14:15

**LEGEND:**

CAT6 CABLE -

ACS DOOR CONTROL SYSTEM WIRING KIT:
(1) 8C16AWG :
- A. TWO (2) 16 AWG CONDUCTORS TO THE DOOR CONTACT
- B. THREE (3) 16 AWG CONDUCTORS TO THE EXIT REQUEST DEVICE (ERD)
- C. TWO (2) 16 AWG CONDUCTORS TO THE DOOR LOCKS

16AWG 2-PAIR TWISTED SHIELDED PAIR:
- A. 2-PAIR 16 AWG TWISTED SHIELDED TO CARD READER

22AWG CAT5E HIGH-PERFORMANCE STARLINK CABLE
CONNECTING STARLINK POWER SUPPLY TO STARLINK ANTENNA -

PATCH CABLE, 4-PAIR UTP (CAT5E), 22 AWG -

24AWG, CAT5E ROUTER CABLE -

TVSS -

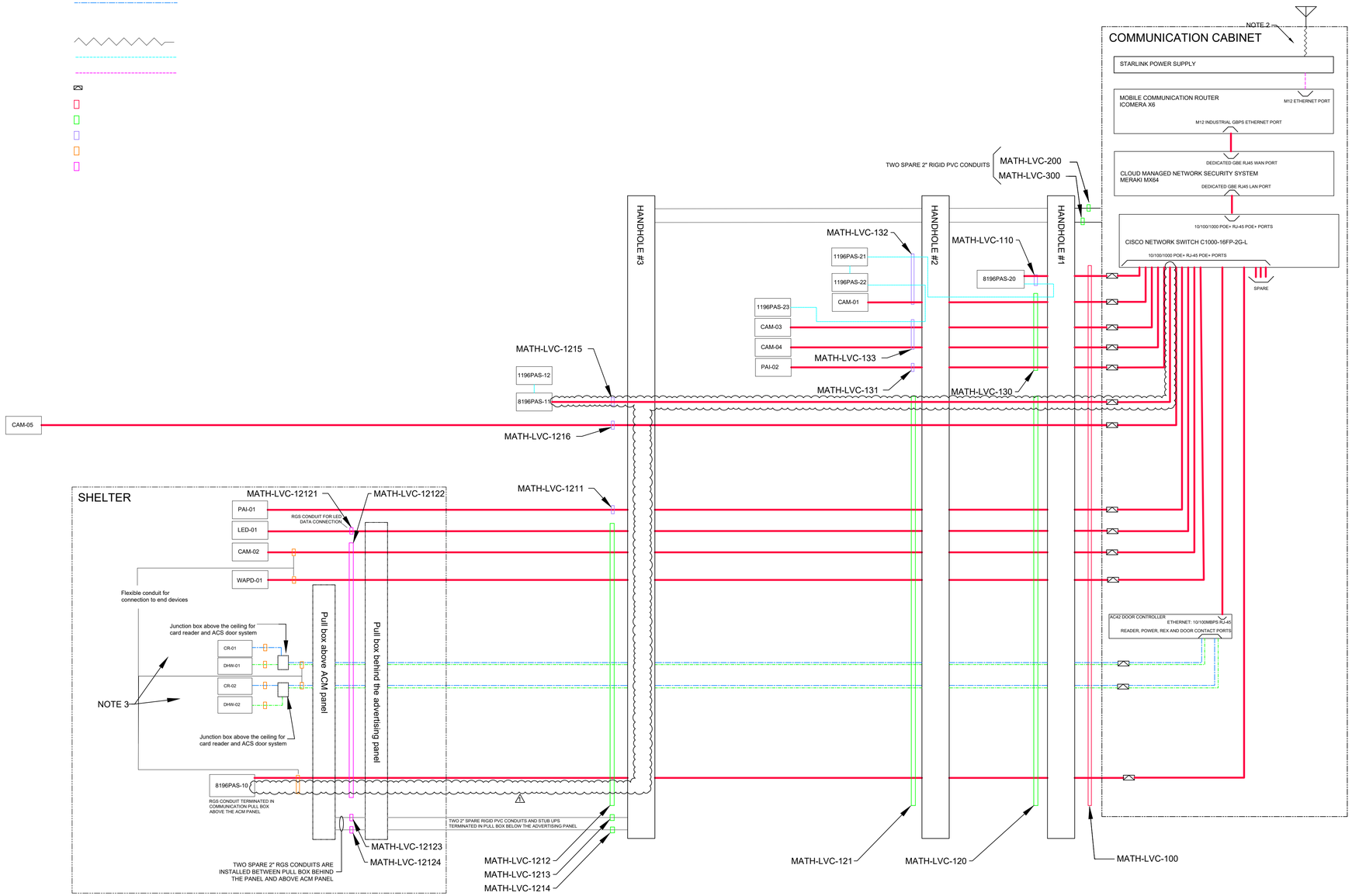
3" RIGID PVC CONDUIT -

2" RIGID PVC CONDUIT -

1" RIGID PVC CONDUIT -

FLEXIBLE CONDUIT -

RGS CONDUIT -




**NOTES:**

1. FOR SPEAKER CONNECTIONS, EMPLOY RJ45 PLUGS TERMINATED IN T568A OR T568B STRAIGHT-THROUGH CONFIGURATIONS. IT IS RECOMMENDED TO USE PATCH CABLES WITH A MAXIMUM LENGTH OF 50 FEET (13M) BETWEEN EACH SPEAKER.
2. FLAT HIGH-PERFORMANCE STARLINK ANTENNA TO BE SUPPLIED BY ONTC.
3. REFER TO ACCESS CONTROLLER DETAILS AND ARRANGEMENT ILLUSTRATED IN T30-005.
4. REFER TO EQUIPMENT, CABLE, AND CONDUIT SCHEDULES FOR FURTHER DETAILS AND ARRANGEMENTS.

IFT DESIGN
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| NO. | DATE | MODIFICATION | DRAWN | CHKD. | APPRVD. |
|---|---|---|---|---|---|
| 1 | 05/17/24 | ADDENDUM NO. 1 | MN | NN | FK |

REVISIONS

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| DESIGNED | NN |
| DRAWN | MN |
| CHECKED | NN |
| APPROVED | FK |

Ontario Northland

GANNETT FLEMING

NORTHEAST PASSENGER RAIL SERVICE
ONTARIO, CANADA
REINSTATED STATIONS (PACKAGE 1 & 2)

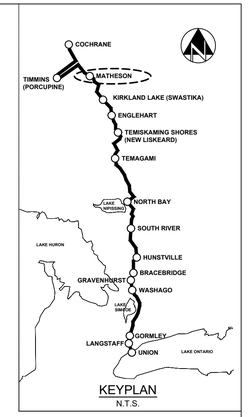
GENERAL
COMMUNICATIONS
MATHESON STATION
SYSTEM OVERVIEW

| | |
|---|---|
| CONTRACT NUMBER | 13258 |
| SCALE | N/A |
| DATE | 03/18/2024 |
| DRAWING NUMBER | T11-001 |
| SHEET | 148 |
| OF | 173 |

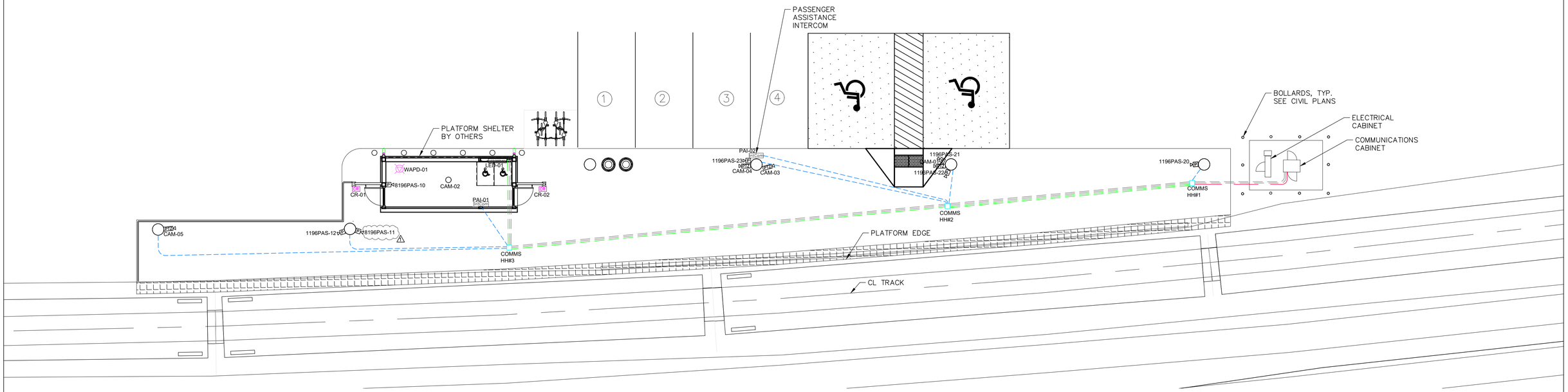
FILE NAME: C:\Users\vnguyen\DC\ACCDocs\GANNETT FLEMING INC\073613-ONTC-NorthlanderPassengerRail\Project Files\Design\FAC\COMM\Wrkg\11_Math\T11-001_Comms System Overview - Matheson.dwg
CREATED: 2024-01-16
MODIFIED: 2024-05-16 23:40

LEGEND:

- 3" RIGID PVC CONDUIT -
- 2" RIGID PVC CONDUIT -
- 2" RIGID PVC CONDUIT (SPARE) -
- 1" RIGID PVC CONDUIT -
- FLEXIBLE CONDUIT -
- RGS CONDUIT -
- LIGHT POLE -
- COMMUNICATIONS HANDHOLE -




KEYPLAN
N.T.S.




## MATHESON STATION
## ENLARGED PLAN

SCALE 1:100

0 1 2 4m

NOTES:

1. THE CONTRACTOR SHALL PROVIDE THREE (3) 53MM STUB-UPS FOR ELECTRICAL AND THREE (3) 53MM STUB UPS FOR COMMS FROM DEDICATED CONCRETE ENCASED DUCTBANK. THE STUB-UPS SHALL BE PROVIDED UNTIL 500 MM ABOVE FINISHED CONCERTE PAD FOR THE SHELTER.
2. 3 x 53MM RIGID PVC CONDUITS FOR ELECTRICAL AND 3 X 53MM RIGID PVC FOR COMMUNICATION TO BE TERMINATED IN THE RESPECTIVE TERMINATION BOXES PROVIDED BY SHELTER CONTRACTOR.
3. FOR THE INSTALLATION OF COMMUNICATION SYSTEM COMPONENTS, INCLUDING BUT NOT LIMITED TO CAMERAS, SPEAKERS, INTERCOMS, AND RELATED EQUIPMENT WITHIN THE SHELTERS AT MATHESON STATION, REFER TO COMMUNICATION DRAWING T00-006.
4. THE DEPICTED LOCATIONS AND ANGLES OF COMMUNICATION DEVICES IN THE SITE PLAN DRAWINGS ARE INDICATIVE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL THESE DEVICES STRATEGICALLY AND EFFICIENTLY TO ENSURE COMPREHENSIVE COVERAGE OF THE ENTIRE PLATFORM, PARKING LOT, AND OUTDOOR CABINETS. THE CONTRACTOR SHALL COORDINATE WITH ONTC FOR FINAL CAMERA ADJUSTMENTS.
5. THE CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH ONTC TO PROVIDE A DETAILED PLAN OUTLINING PRECISE LOCATIONS AND FIELDS OF VIEW (FOV) FOR CCTV CAMERA INSTALLATIONS ACROSS THE STATION. THIS PLAN WILL CONSIDER VARIOUS FACTORS, INCLUDING LINE OF SIGHT, COVERAGE AREA, AND THE INCLUSION OF PRIVACY REGIONS ON CAMERAS TO SAFEGUARD SENSITIVE INFORMATION.

IFT DESIGN
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| NO. | DATE | MODIFICATION | DRAWN | CHKD. | APPRVD. |
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| | | REVISIONS | | | |
| 1 | 05/17/24 | ADDENDUM NO. 1 | MN | NN | FK |
| | | REVISIONS | | | |

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| DESIGNED | NN |
| DRAWN | MN |
| CHECKED | NN |
| APPROVED | FK |

Ontario Northland

GANNETT FLEMING

NORTHEAST PASSENGER RAIL SERVICE
ONTARIO, CANADA
REINSTATED STATIONS (PACKAGE 1 & 2)

MATHESON STATION
COMMUNICATIONS
ENLARGED PLAN

| | |
|---|---|
| CONTRACT NUMBER | 13258 |
| SCALE 1:100 | DATE 03/18/2024 |
| DRAWING NUMBER | T11-201 |
| SHEET 149 | OF 173 |

FILE NAME: C:\Users\mnguyen\DC\ACCDocs\GANNETT FLEMING INC\073613-ONTC-NorthlanderPassengerRail\Project Files\Design\FAC\COMM\Wrkg\11_Math\T11-201 - Site Plan - Matheson.dwg
CREATED: 2023-12-04 MODIFIED: 2024-05-16 15:39

## INTERCONNECTION CABLE AND CABLE SCHEDULE at TEMISKAMING SHORES STATION

| NUMBER | CABLE TYPE | CABLE ID | CABLE ORIGIN | SWITCH PORT# | CABLE DESTINATION | DEVICE TYPE | CONDUIT/RACEWAY NUMBER | DRAWING | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 01 | CAT6 | TEMIS-CISCO-01:01 / SECU-01 | TEMIS-CISCO-01 | 01 | TEMIS-SECU-01 | SECURITY APPLIANCE (Meraki MX64) | n/a | | COMM CABINET |
| 02 | CAT6 | TEMIS-CISCO-01:02 / CAM-01 | TEMIS-CISCO-01 | 02 | TEMIS-CAM-01 | OUTDOOR DOME CAMERA | MATH-LVC-100<br>MATH-LVC-130<br>MATH-LVC-132 | | PLATFORM |
| 03 | CAT6 | TEMIS-CISCO-01:03 / CAM-02 | TEMIS-CISCO-01 | 03 | TEMIS-CAM-02 | FISHEYE CAMERA | MATH-LVC-100<br>MATH-LVC-120<br>MATH-LVC-121<br>MATH-LVC-1212<br>MATH-LVC-12122 | | SHELTER |
| 04 | CAT6 | TEMIS-CISCO-01:04 / CAM-03 | TEMIS-CISCO-01 | 04 | TEMIS-CAM-03 | OUTDOOR DOME CAMERA | MATH-LVC-100<br>MATH-LVC-130<br>MATH-LVC-133 | | PLATFORM |
| 05 | CAT6 | TEMIS-CISCO-01:05 / CAM-04 | TEMIS-CISCO-01 | 05 | TEMIS-CAM-04 | OUTDOOR DOME CAMERA | MATH-LVC-100<br>MATH-LVC-130<br>MATH-LVC-133 | | PLATFORM |
| 06 | CAT6 | TEMIS-CISCO-01:06 / CAM-05 | TEMIS-CISCO-01 | 06 | TEMIS-CAM-05 | OUTDOOR DOME CAMERA | MATH-LVC-100<br>MATH-LVC-120<br>MATH-LVC-121<br>MATH-LVC-1216 | | PLATFORM |
| 07 | CAT6 | TEMIS-CISCO-01:07 / WAPD-01 | TEMIS-CISCO-01 | 07 | TEMIS-WAPD-01 | Wi-Fi ACCESS POINT DEVICE | MATH-LVC-100<br>MATH-LVC-120<br>MATH-LVC-121<br>MATH-LVC-1212<br>MATH-LVC-12122 | | SHELTER |
| 08 | CAT6 | TEMIS-CISCO-01:08 / 8196PAS-10 | TEMIS-CISCO-01 | 08 | TEMIS-8196PAS-10 | POE PA SPEAKER, HORN | MATH-LVC-100<br>MATH-LVC-120<br>MATH-LVC-121<br>MATH-LVC-1212<br>MATH-LVC-12122 | | SHELTER |
| 09 | CAT6 | TEMIS-CISCO-01:09 / 8196PAS-20 | TEMIS-CISCO-01 | 09 | TEMIS-8196PAS-20 | POE PA SPEAKER, HORN | MATH-LVC-100<br>MATH-LVC-110 | | PLATFORM |
| 10 | CAT6 | TEMIS-CISCO-01:10 / PAI-01 | TEMIS-CISCO-01 | 10 | TEMIS-PAI-01 | INTERCOM | MATH-LVC-100<br>MATH-LVC-120<br>MATH-LVC-121<br>MATH-LVC-1211 | | SHELTER |
| 11 | CAT6 | TEMIS-CISCO-01:11 / PAI-02 | TEMIS-CISCO-01 | 11 | TEMIS-PAI-02 | INTERCOM | MATH-LVC-100<br>MATH-LVC-130<br>MATH-LVC-131 | | PLATFORM |
| 12 | CAT6 | TEMIS-CISCO-01:12 / LED-01 | TEMIS-CISCO-01 | 12 | TEMIS-LED-01 | LED DISPLAY | MATH-LVC-100<br>MATH-LVC-120<br>MATH-LVC-121<br>MATH-LVC-1212<br>MATH-LVC-12121 | | SHELTER |
| 13 | CAT6 | TEMIS-CISCO-01:13 / ADC-01 | TEMIS-CISCO-01 | 13 | TEMIS-ADC-01 | ACS DOOR CONTROLLER | N/A | | COMM CABINET |
| 14 | CAT6 | TEMIS-CISCO-01:14 / 8196PAS-11 | TEMIS-CISCO-01 | 14 | TEMIS-8196PAS-11 | POE PA SPEAKER, HORN | MATH-LVC-100<br>MATH-LVC-110<br>MATH-LVC-1215 | | PLATFORM |
| 15 | CAT6 | TEMIS-ROUT-01 / SECU-01 | TEMIS-ROUT-01 | 01 | TEMIS-SECU-01 | SECURITY APPLIANCE (Meraki MX64) | N/A | | COMM CABINET |
| 16 | Patch cable 4 Pair UTP 22 AWG | TEMIS-1196PAS-11 / 1196PAS-12 | TEMIS-1196PAS-11 | N/A | TEMIS-1196PAS-12 | SATELLITE PA SPEAKER | N/A | | PLATFORM |
| 18 | Patch cable 4 Pair UTP 22 AWG | TEMIS-8196PAS-20 / 1196PAS-21 | TEMIS-8196PAS-20 | N/A | TEMIS-8196PAS-21 | SATELLITE PA SPEAKER | MATH-LVC-110<br>MATH-LVC-130<br>MATH-LVC-132 | | PLATFORM |
| 19 | Patch cable 4 Pair UTP 22 AWG | TEMIS-1196PAS-21 / 1196PAS-22 | TEMIS-1196PAS-21 | N/A | TEMIS-1196PAS-22 | SATELLITE PA SPEAKER | N/A | | PLATFORM |
| 20 | Patch cable 4 Pair UTP 22 AWG | TEMIS-1196PAS-22 / 1196PAS-23 | TEMIS-1196PAS-22 | N/A | TEMIS-1196PAS-23 | SATELLITE PA SPEAKER | MATH-LVC-132<br>MATH-LVC-133 | | PLATFORM |
| 21 | 16AWG 2-PAIR TWISTED SHIELDED PAIR | TEMIS-ADC-01 / CR-01 | TEMIS-ADC-01 | N/A | TEMIS-CR-01 | CARD READER | MATH-LVC-100<br>MATH-LVC-120<br>MATH-LVC-121<br>MATH-LVC-1212<br>MATH-LVC-12122 | | SHELTER |
| 22 | 16AWG 2-PAIR TWISTED SHIELDED PAIR | TEMIS-ADC-01 / CR-02 | TEMIS-ADC-01 | N/A | TEMIS-CR-02 | CARD READER | MATH-LVC-100<br>MATH-LVC-120<br>MATH-LVC-121<br>MATH-LVC-1212<br>MATH-LVC-12122 | | SHELTER |
| 23 | 8C16AWG | TEMIS-ADC-01 / DHW-01 | TEMIS-ADC-01 | N/A | TEMIS-DHW-01 | DOOR HARDWARE AND SYSTEM | MATH-LVC-100<br>MATH-LVC-120<br>MATH-LVC-121<br>MATH-LVC-1212<br>MATH-LVC-12122 | | SHELTER |
| 24 | 8C16AWG | TEMIS-ADC-01 / DHW-02 | TEMIS-ADC-01 | N/A | TEMIS-DHW-02 | DOOR HARDWARE AND SYSTEM | MATH-LVC-100<br>MATH-LVC-120<br>MATH-LVC-121<br>MATH-LVC-1212<br>MATH-LVC-12122 | | SHELTER |

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NOTES:

1. CABLES BETWEEN SPEAKERS CARRY THE ANALOG AUDIO AND SUPERVISION SIGNALS; THIS INTERFACE DOES NOT ACTUALLY USE ETHERNET.
2. REGARDLESS OF THE NUMBER OF 1196 SATELLITE SPEAKERS USED, CONNECT THE TERMINATION PLUG TO THE EMPTY "OUT/TERM" PORT ON THE LAST 1196 IN THE CHAIN.
3. THE 8196 IP POE+ HORN SPEAKER PROVIDES TWO DIFFERENT RJ45 JACKS: ONE FOR NETWORK CONNECTION, AND A SECOND FOR OPTIONALLY CONNECTING ADDITIONAL 1196 SATELLITE SPEAKERS.
4. CAT6 CONNECTION WIRING TO AN IEEE 802.3AF COMPLIANT NETWORK POE SWITCH MUST NOT LEAVE THE BUILDING PERIMETER WITHOUT ADEQUATE LIGHTNING PROTECTION.
5. SPEAKER CONNECTIONS: PATCH CABLE 4 PAIR UTP 24 AWG RJ45 PLUG TERMINATED T568A OR T568B "STRAIGHT-THROUGH". MAXIMUM RECOMMENDED PATCH CABLE LENGTH 50 FEET (13M) BETWEEN EACH SPEAKER.

IFT DESIGN
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| NO. | DATE | MODIFICATION | DRAWN | CHKD. | APPRVD. |
|---|---|---|---|---|---|
| 1 | 05/17/24 | ADDENDUM NO. 1 | MN | NN | FK |

REVISIONS

DESIGNED NN
DRAWN MN
CHECKED NN
APPROVED FK

Ontario Northland

GANNETT FLEMING

NORTHEAST PASSENGER RAIL SERVICE
ONTARIO, CANADA
REINSTATED STATIONS (PACKAGE 1 & 2)

GENERAL
COMMUNICATIONS
MATHESON STATION
CABLE SCHEDULE

CONTRACT NUMBER 13258
SCALE N/A
DATE 03/18/2024
DRAWING NUMBER T11-901
SHEET 150
OF 173

FILE NAME: C:\Users\vmnguyen\DC\ACCDocs\GANNETT FLEMING INC\073613-ONTC-NorthlanderPassengerRail\Project Files\Design\FAC\COMM\Wrkg\11_Math\T11-901 Cable Schedules - Matheson.dwg
CREATED: 2024-01-24 MODIFIED: 2024-05-16 15:18

ONTARIO NORTHLAND PROJECT NUMBER: 073613

FILE NAME: C:\Users\mnguyen\DC\ACCDocs\GANNETT FLEMING INC\073613-ONTC-NorthlanderPassengerRail\Project Files\Design\FAC\COMM\Wrkg\11_Math\T11-902 Conduit Schedule – Matheson.dwg
CREATED: 2024-03-08 MODIFIED: 2024-05-16 15:33

## CONDUIT SCHEDULE at MATHESON STATION

| NUMBER | CONDUIT ID | FUNCTION | SIZE INCH | TYPE | FROM | TO | CABLE NUMBER | DRAWING | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 01 | MATH-LVC-100 | PVC CONDUIT FROM COMM CABINET TO HH#1 | 3 | PVC | MATH-CCAB-01 | MATH-CHH-01 | MATH-CISCO-01:02 / CAM-01<br>MATH-CISCO-01:03 / CAM-02<br>MATH-CISCO-01:04 / CAM-03<br>MATH-CISCO-01:05 / CAM-04<br>MATH-CISCO-01:06 / CAM-05<br>MATH-CISCO-01:07 / WAPD-01<br>MATH-CISCO-01:08 / 8196PAS-10<br>MATH-CISCO-01:09 / 8196PAS-20<br>MATH-CISCO-01:10 / PAI-01<br>MATH-CISCO-01:11 / PAI-02<br>MATH-CISCO-01:12 / LED-01<br>~~MATH-CISCO-01:13 / ADC-01~~<br>⚠ MATH-CISCO-01:14 / 8196PAS-11<br>~~MATH-ADC-01 / CR-01~~<br>MATH-ADC-01 / CR-02<br>MATH-ADC-01 / DHW-01<br>MATH-ADC-01 / DHW-02 | | |
| 02 | MATH-LVC-200 | SPARE CONDUIT FROM COMM CABINET TO END OF THE PLATFORM THROUGH HH#1, HH#2 AND HH#3 | 2 | PVC | MATH-CCAB-01 | MATH-CHH-03 | EMPTY | | |
| 03 | MATH-LVC-300 | SPARE CONDUIT FROM COMM CABINET TO END OF THE PLATFORM THROUGH HH#1, HH#2 AND HH#3 | 2 | PVC | MATH-CCAB-01 | MATH-CHH-03 | EMPTY | | |
| 04 | MATH-LVC-110 | PVC CONDUIT FROM HH#1 TO 8196PAS-20 | 1 | PVC | MATH-CHH-01 | MATH-8196PAS-120 | MATH-CISCO-01:09 / 8196PAS-20<br>MATH-8196PAS-20 / 1196PAS-21 | | |
| 05 | MATH-LVC-120 | PVC CONDUIT FROM HH#1 TO HH#2 FOR COMM SYSTEMS IN SHELTER AND CAM-05 | 2 | PVC | MATH-CHH-01 | MATH-CHH-02 | MATH-CISCO-01:03 / CAM-02<br>MATH-CISCO-01:06 / CAM-05<br>MATH-CISCO-01:07 / WAPD-01<br>MATH-CISCO-01:08 / 8196PAS-10<br>MATH-CISCO-01:10 / PAI-01<br>MATH-CISCO-01:12 / LED-01<br>~~MATH-CISCO-01:13 / ADC-01~~<br>⚠ MATH-CISCO-01:14 / 8196PAS-11<br>~~MATH-ADC-01 / CR-01~~<br>MATH-ADC-01 / CR-02<br>MATH-ADC-01 / DHW-01<br>MATH-ADC-01 / DHW-02 | | |
| 06 | MATH-LVC-121 | PVC CONDUIT FROM HH#1 TO HH#2 FOR COMM SYSTEMS IN SHELTER AND CAM-05 | 2 | PVC | MATH-CHH-01 | MATH-CHH-02 | MATH-CISCO-01:03 / CAM-02<br>MATH-CISCO-01:06 / CAM-05<br>MATH-CISCO-01:07 / WAPD-01<br>MATH-CISCO-01:08 / 8196PAS-10<br>MATH-CISCO-01:10 / PAI-01<br>MATH-CISCO-01:12 / LED-01<br>~~MATH-CISCO-01:13 / ADC-01~~<br>⚠ MATH-CISCO-01:14 / 8196PAS-11<br>~~MATH-ADC-01 / CR-01~~<br>MATH-ADC-01 / CR-02<br>MATH-ADC-01 / DHW-01<br>MATH-ADC-01 / DHW-02 | | |
| 07 | MATH-LVC-130 | PVC CONDUIT FROM HH#1 TO HH#2 FOR COMM SYSTEMS IN PLATFORM | 2 | PVC | MATH-CHH-01 | MATH-CHH-02 | MATH-CISCO-01:02 / CAM-01<br>MATH-CISCO-01:04 / CAM-03<br>MATH-CISCO-01:05 / CAM-04<br>MATH-CISCO-01:11 / PAI-02<br>MATH-8196PAS-20 / 1196PAS-21 | | |
| 08 | MATH-LVC-131 | PVC CONDUIT FROM HH#2 TO PAI-02 IN PLATFORM | 1 | PVC | MATH-CHH-02 | MATH-PAI-02 | MATH-CISCO-01:11 / PAI-02 | | |
| 09 | MATH-LVC-132 | PVC CONDUIT FROM HH#2 TO CAM-01 AND 1196PAS-21 AND 1196PAS-22 | 1 | PVC | MATH-CHH-02 | MATH-CAM-01 MATH-1196PAS-21 / MATH-1196PAS-22 | MATH-CISCO-01:02 / CAM-01<br>MATH-8196PAS-20 / 1196PAS-21<br>MATH-1196PAS-22 / 1196PAS-23 | | |
| 10 | MATH-LVC-133 | PVC CONDUIT FROM HH#2 TO CAM-03 AND CAM-04 AND 1196PAS-23 | 1 | PVC | MATH-CHH-02 | MATH-CAM-03 / MATH-CAM-04 / MATH-1196PAS-23 | MATH-CISCO-01:04 / CAM-03<br>MATH-CISCO-01:05 / CAM-04<br>MATH-1196PAS-22 / 1196PAS-23 | | |
| 11 | MATH-LVC-1211 | PVC CONDUIT FROM HH#3 TO STUB-UP FOR PAI-01 IN SHELTER | 1 | PVC | MATH-CHH-03 | MATH-PAI-01 | MATH-CISCO-01:10 / PAI-01 | | |
| 12 | MATH-LVC-1212 | PVC CONDUIT FROM HH#3 TO STUB-UPS BEHIND ADVERTISING PANEL IN SHELTER | 2 | PVC | MATH-CHH-03 | MATH-ADPB-01 | MATH-CISCO-01:03 / CAM-02<br>MATH-CISCO-01:07 / WAPD-01<br>~~MATH-CISCO-01:08 / 8196PAS-10~~<br>⚠ MATH-CISCO-01:12 / LED-01<br>MATH-CISCO-01:13 / ADC-01<br>~~MATH-ADC-01 / CR-01~~<br>MATH-ADC-01 / CR-02<br>MATH-ADC-01 / DHW-01<br>MATH-ADC-01 / DHW-02 | | |
| 13 | MATH-LVC-1213 | SPARE PVC CONDUIT FROM HH#3 TO PULL BOX BEHIND ADVERTISING PANEL IN SHELTER | 2 | PVC | MATH-CHH-03 | MATH-ADPB-01 | EMPTY | | |
| 14 | MATH-LVC-1214 | SPARE PVC CONDUIT FROM HH#2 TO STUB-UPS BEHIND ADVERTISING PANEL IN SHELTER | 2 | PVC | MATH-CHH-03 | MATH-ADPB-01 | EMPTY | | |
| 15 | MATH-LVC-12121 | RGS CONDUIT FROM PULL BOX BEHIND ADVERTISING PANEL TO LED ENCLOSURE | 1 | RGS | MATH-ADPB-01 | MATH-LED-01 | MATH-CISCO-01:12 / LED-01 | | |
| 16 | MATH-LVC-12122 | RGS CONDUIT FROM PULL BOX BEHIND ADVERTISING PANEL TO PULL BOX ABOVE CEILING | 2 | RGS | MATH-ADPB-01 | MATH-CGPB-01 | MATH-CISCO-01:03 / CAM-02<br>MATH-CISCO-01:07 / WAPD-01<br>~~MATH-CISCO-01:08 / 8196PAS-10~~<br>⚠ ~~MATH-ADC-01 / CR-01~~<br>MATH-ADC-01 / CR-02<br>MATH-ADC-01 / DHW-01<br>MATH-ADC-01 / DHW-02 | | |
| 17 | MATH-LVC-12123 | SPARE RGS CONDUIT FROM PULL BOX BEHIND ADVERTISING PANEL TO PULL BOX ABOVE CEILING | 1 | RGS | MATH-ADPB-01 | MATH-CGPB-01 | EMPTY | | |
| 18 | MATH-LVC-12124 | SPARE RGS CONDUIT FROM PULL BOX BEHIND ADVERTISING PANEL TO PULL BOX ABOVE CEILING | 1 | RGS | MATH-ADPB-01 | ~~MATH-CGPB-01~~ | EMPTY | | |
| 19 | MATH-LVC-1215 | PVC CONDUIT FROM HH#3 TO 8196PAS-11 AND 1196PAS-12 | 1 | PVC | MATH-CHH-03 | ⚠ MATH-8196PAS-11 / MATH-1196PAS-12 | MATH-CISCO-01:14 / 8196PAS-11 | | |
| 20 | MATH-LVC-1216 | PVC CONDUIT FROM HH#3 TO CAM-05 | 1 | PVC | MATH-CHH-03 | ~~MATH-CAM-05~~ | ~~MATH-CISCO-01:06 / CAM-06~~ | | |

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| NO. | DATE | MODIFICATION | DRAWN | CHKD. | APPRVD. |
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| 1 | 05/17/24 | ADDENDUM NO. 1 | MN | NN | FK |

REVISIONS

DESIGNED NN
DRAWN MN
CHECKED NN
APPROVED FK

Ontario Northland

GANNETT FLEMING

NORTHEAST PASSENGER RAIL SERVICE
ONTARIO, CANADA
REINSTATED STATIONS (PACKAGE 1 & 2)

GENERAL
COMMUNICATIONS
MATHESON STATION
CONDUIT SCHEDULE

CONTRACT NUMBER 13258
SCALE N/A
DATE 03/18/2024
DRAWING NUMBER T11-902
SHEET 151 OF 173

| EQUIPMENT TAG | MANUFACTURER | MODEL NUMBER | DESCRIPTION | LOCATION | DRAWING | SUPPLIED BY | INSTALLED BY | CONFIGURED BY | COMMENT |
|---|---|---|---|---|---|---|---|---|---|
| ~~MATH-8196PAS-10~~ | ~~ALGO COMMUNICATION PRODUCTS LTD.~~ | ~~ALGO 8196~~ | ~~POE+ SPEAKER~~ | ~~SHELTER~~ | | ~~ONTC~~ | ~~CONTRACTOR~~ | ~~ONTC~~ | ~~48 V PoE IEEE 802.3af/at Max 25.5 W - Idle nominal 2.5 W~~ |
| MATH-8196PAS-11 | ALGO COMMUNICATION PRODUCTS LTD. | ALGO 8196 | POE+ SPEAKER | PLATFORM | | ONTC | CONTRACTOR | ONTC | 48 V PoE IEEE 802.3af/at Max 25.5 W - Idle nominal 2.5 W |
| ~~MATH-1196PAS-12~~ | ~~ALGO COMMUNICATION PRODUCTS LTD.~~ | ~~ALGO 1196~~ | ~~SATELLITE SPEAKER~~ | ~~PLATFORM~~ | | ~~ONTC~~ | ~~CONTRACTOR~~ | ~~ONTC~~ | ~~16 Watts (shared equally between 8196 and up to 3 x 1196)~~ |
| MATH-8196PAS-20 | ALGO COMMUNICATION PRODUCTS LTD. | ALGO 8196 | POE+ SPEAKER | PLATFORM | | ONTC | CONTRACTOR | ONTC | 48 V PoE IEEE 802.3af/at Max 25.5 W - Idle nominal 2.5 W |
| MATH-1196PAS-21 | ALGO COMMUNICATION PRODUCTS LTD. | ALGO 1196 | SATELLITE SPEAKER | PLATFORM | | ONTC | CONTRACTOR | ONTC | 16 Watts (shared equally between 8196 and up to 3 x 1196) |
| MATH-1196PAS-22 | ALGO COMMUNICATION PRODUCTS LTD. | ALGO 1196 | SATELLITE SPEAKER | PLATFORM | | ONTC | CONTRACTOR | ONTC | 16 Watts (shared equally between 8196 and up to 3 x 1196) |
| MATH-1196PAS-23 | ALGO COMMUNICATION PRODUCTS LTD. | ALGO 1196 | SATELLITE SPEAKER | PLATFORM | | ONTC | CONTRACTOR | ONTC | 16 Watts (shared equally between 8196 and up to 3 x 1196) |
| MATH-CAM-01 | VERKADA | CD62-E | OUTDOOR DOME CAMERA | PARKING LOT | | ONTC | CONTRACTOR | ONTC | IEEE 802.3at Type 2 PoE+ for Extended temperature range and assumes IR will be enabled |
| MATH-CAM-02 | VERKADA | CF81-E | FISHEYE CAMERA | SHELTER | | ONTC | CONTRACTOR | ONTC | IEEE 802.3at Type 2 PoE+ for Extended temperature range and assumes IR will be enabled |
| MATH-CAM-03 | VERKADA | CD62-E | OUTDOOR DOME CAMERA | PLATFORM | | ONTC | CONTRACTOR | ONTC | Extended Temperature Range: 20W (IEEE 802.3at PoE) |
| MATH-CAM-04 | VERKADA | CD62-E | OUTDOOR DOME CAMERA | PLATFORM | | ONTC | CONTRACTOR | ONTC | Extended Temperature Range: 20W (IEEE 802.3at PoE) |
| MATH-CAM-05 | VERKADA | CD62-E | OUTDOOR DOME CAMERA | PLATFORM | | ONTC | CONTRACTOR | ONTC | Extended Temperature Range: 20W (IEEE 802.3at PoE) |
| MATH-PAI-01 | TALKAPHONE | VOIP-600 | PASSENGER ASSISTANCE INTERCOM | SHELTER | | ONTC | CONTRACTOR | ONTC | Max: +12VDC (800mA), +24VAC/DC (500mA), or PoE (+36VDC - 57VDC, 250mA) |
| MATH-PAI-02 | TALKAPHONE | VOIP-600 | PASSENGER ASSISTANCE INTERCOM | PLATFORM | | ONTC | CONTRACTOR | ONTC | Max: +12VDC (800mA), +24VAC/DC (500mA), or PoE (+36VDC - 57VDC, 250mA) |
| MATH-CR-01 | VERKADA | AD33 | CARD READER | SHELTER | | ONTC | CONTRACTOR | ONTC | Power Consumption 12V, 300mA max / Requires Verkada Access Control Unit AC42 |
| MATH-CR-02 | VERKADA | AD33 | CARD READER | SHELTER | | ONTC | CONTRACTOR | ONTC | Power Consumption 12V, 300mA max / Requires Verkada Access Control Unit AC42 |
| MATH-DHW-01 | N/A | N/A | Door HW (DOOR CONTACT, LOCK, REX, DOOR OPERATOR) | SHELTER | | SHELTER SUPPLIER | SHELTER SUPPLIER | CONTRACTOR + ONTC | |
| MATH-DHW-02 | N/A | N/A | Door HW (DOOR CONTACT, LOCK, REX, DOOR OPERATOR) | SHELTER | | SHELTER SUPPLIER | SHELTER SUPPLIER | CONTRACTOR + ONTC | |
| MATH-WAPD-01 | MERAKI | CW9162 | WIFI ACCESS POINT DEVICE | SHELTER | | ONTC | CONTRACTOR | ONTC | POE: 37 - 42.5 V (802.3at compliant)/DC Power Adapter (12V)/ Power consumption: 30W |
| MATH-LED-01 | HANOVER DISPLAYS INC | TP.NT.DISP.16X96.001 | LED DISPLAY AND ENCLOSURE | SHELTER | | ONTC | CONTRACTOR | ONTC | 110 VAC / 105 W WHEN ALL LEDS LIT AT 100% VRIGHTNESS |
| MATH-ANT-01 | STARLINK | | STARLINK DISH TO BE CONNECTED TO ICOMERA ROUTER | COMMUNICATION CABINET | | ONTC | CONTRACTOR | ONTC | |
| MATH-ROUT-01 | ICOMERA | ICOMERA X6i | MOBILE COMMUNICATION ROUTER ICOMERA X6 | COMMUNICATION CABINET | | ONTC | CONTRACTOR | ONTC | Power Inputs: 24VDC / PowerConsumption <100W |
| MATH-SECU-01 | MERAKI | MERAKI MX64 | CLOUD MANAGED NETWORK SECURITY SYSTEM | COMMUNICATION CABINET | | ONTC | CONTRACTOR | ONTC | Power Supply 30W DC / Power Load (idle/max) 4W / 10W |
| MATH-ADC-01 | VERKADA | AC42 / ACC-BAT-4AH | ACCESS DOOR CONTROLLER / BATTERY BACKUP | COMMUNICATION CABINET | | ONTC | CONTRACTOR | ONTC | AC Power Input: 100-240VAC50/60Hz1.5A max / Power Consumption60W maximum |
| MATH-CISCO-01 | CISCO | C1000-16FP-2G-L | CISCO NETWORK SWITCH | COMMUNICATION CABINET | | ONTC | CONTRACTOR | ONTC | 110 to 220V AC / Power consumption 100% traffic: 16.68 watts |
| MATH-HTHER-01 | HAMMOND | SKT011409NC-C | HEATER THERMOSTAT | COMMUNICATION CABINET | | CONTRACTOR | CONTRACTOR | N/A | |
| MATH-VTHER-01 | HAMMOND | SKT011419NO-C | FAN THERMOSTAT | COMMUNICATION CABINET | | CONTRACTOR | CONTRACTOR | N/A | |
| MATH-VFAN-01 | | FT300HA1BK | VENTILATION FAN | COMMUNICATION CABINET | | CONTRACTOR | CONTRACTOR | N/A | |
| MATH-HEAT-01 | | SHV031149 | AIR HEATER | COMMUNICATION CABINET | | CONTRACTOR | CONTRACTOR | N/A | to be Installed on Inside of Door. Heater Employs a Built-In Temperature Limiter/ Thermal Shutoff. |
| MATH-DINR | | | DIN RAIL | COMMUNICATION CABINET | | CONTRACTOR | CONTRACTOR | N/A | |
| MATH-WIREWAY | PANDUIT | F2X2LG6 / C4LG6 | WIREWAY/ WIREDUCT / WIRE DUCT COVER | COMMUNICATION CABINET | | CONTRACTOR | CONTRACTOR | N/A | |
| MATH-PATCHP | | | PATCH PANELS | COMMUNICATION CABINET | | CONTRACTOR | CONTRACTOR | N/A | |
| MATH-CIRCUITB | | | CIRCUIT BREAKERS | COMMUNICATION CABINET | | CONTRACTOR | CONTRACTOR | N/A | |
| MATH-GBAR | | | GROUND BAR | COMMUNICATION CABINET | | CONTRACTOR | CONTRACTOR | N/A | |
| MATH-GFCIR | | | GFCI PROTECTED RECEPTACLES WITH USB C AND A | COMMUNICATION CABINET | | CONTRACTOR | CONTRACTOR | N/A | |
| MATH-TVSS | | | TVSS(TRANSIENT VOLTAGE SURGE SUPPRESSOR) | COMMUNICATION CABINET | | CONTRACTOR | CONTRACTOR | N/A | |
| MATH-DISSWCH | | | DISCONNECT SWITCH | COMMUNICATION CABINET | | CONTRACTOR | CONTRACTOR | N/A | |
| MATH-TEMP | CDW | EME1T5SNMP-R2 | SNMP TEMPERATURE SENSOR | COMMUNICATION CABINET | | CONTRACTOR | CONTRACTOR | ONTC | |
| NO TAG | | | WIRE REINFORCED AIR FILTERS / FIBERGLASS MESH SCREEN ON DISCHARGE/ COVER PLATES FOR LOUVERS / 3/4" POLYISO R4.5 INTERIOR INSULATION / HINGES / BACKPANEL / SHELVES / DOOR ARE VENT WITH FILTER MATERIAL / KEY-LOCK HANDLE / TERMINAL BLOCKS | COMMUNICATION CABINET | | CONTRACTOR | CONTRACTOR | N/A | |
| MATH-CCAB-01 | | | STAINLESS STEEL FREE STANDING COMMUNICATION CABINET | PLATFORM | | CONTRACTOR | CONTRACTOR | N/A | |
| MATH-CHH-01 | | | HANDHOLE #1 | PLATFORM | | CONTRACTOR | CONTRACTOR | N/A | |
| MATH-CHH-02 | | | HANDHOLE #2 | PLATFORM | | CONTRACTOR | CONTRACTOR | N/A | |
| MATH-CHH-03 | | | HANDHOLE #3 | PLATFORM | | CONTRACTOR | CONTRACTOR | N/A | |
| MATH-ADPB-01 | | | PULL BOX BEHIND THE ADVERTISING PANEL | SHELTER | | SHELTER SUPPLIER | CONTRACTOR | N/A | |
| MATH-CGPB-01 | | | PULL BOX ABOVE ACM PANEL (ABOVE CEILING) | SHELTER | | SHELTER SUPPLIER | CONTRACTOR | N/A | |

FILE NAME: C:\Users\mnguyen\DC\ACCDocs\GANNETT FLEMING INC\073613-ONTC-NorthlanderPassengerRail\Project Files\Design\FAC\COMM\Wrkg\11_Math\T11-903 Equipment Schedules - Matheson.dwg
CREATED: 2024-03-08 MODIFIED: 2024-05-16 15:38

ONTARIO NORTHLAND PROJECT NUMBER: 073613

| NO. | DATE | MODIFICATION | DRAWN | CHKD. | APPRVD. |
|---|---|---|---|---|---|
| 1 | 05/17/24 | ADDENDUM NO. 1 | MN | NN | FK |

REVISIONS

IFT DESIGN
NOT FOR CONSTRUCTION

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|---|---|
| DESIGNED | NN |
| DRAWN | MN |
| CHECKED | NN |
| APPROVED | FK |

Ontario Northland

GANNETT FLEMING

NORTHEAST PASSENGER RAIL SERVICE
ONTARIO, CANADA
REINSTATED STATIONS (PACKAGE 1 & 2)

GENERAL
COMMUNICATIONS
MATHESON STATION
EQUIPMENT SCHEDULE

| | |
|---|---|
| CONTRACT NUMBER | 13258 |
| SCALE | N/A |
| DATE | 03/18/2024 |
| DRAWING NUMBER | T11-903 |
| SHEET | 152 |
| OF | 173 |

| | Signtype | Description | Notes | Sign Quantities |
|---|---|---|---|---|
| Threshold Markers | TH1 | Vehicular Facility Beacon - Lollipop sign | | 5 |
| | ~~TH3.1.1~~ | ~~Facility Marker: Wall mounted~~ | ~~TH3.1.1 REMOVED FROM SCOPE~~ | ~~0~~ |
| | TH9 | Vehicular Facility Entrance Identification | | 5 |
| Platform | PL2B | Facility Name - along platform (mounted to existing posts) | | 6 |
| Notice & Safety | NS3 | Prohibitory - No Smoking | | 6 |
| | NS4 | Regulatory - CCTV | | 6 |
| Amenity Markers | AM2.4 | Amenities ID - Post Mount | | 7 |
| | AM5.3 | Accessible Parking Sign - post | | 14 |
| Decals | D1 | Decal - Permissive and Prohibited | | 8 |
| | D2 | Decal - Thank you with Push | | 8 |
| | D4 | Automatic Door Decal | | 8 |
| | D7 | Doors Will Unlock During Operational Hours | | 8 |
| Information Signage | IS3 | Customer Parking Only - post | | 6 |
| | IS4 | "Attention - ONTC not responsible.." - Parking disclaimer - post | | 6 |
| | IS5 | "Customer/Staff Parking Only" - post | | 31 |
| | IS8 | Advisory - Push for Questions / Help Decal | | 4 |
| Parking & Traffic Management | EV1 | Parking - EV Charging - post | | 0 |
| Regulator Signage | R16 | Platform End Gate signage (do not cross) | | 22 |
| | R33 | Press For Heat Decal | | 4 |
| | ROW | CN Private Property - platform end | This sign is only located at North Bay Station and stations south of it. | 2 |
| | S1.2 | Glazing Distraction Pattern | | 20 |

IFT DESIGN
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| 1 | 05/17/24 | ADDENDUM NO. 1 | MR | KN | VG |

REVISIONS

DISCLAIMER

DESIGNED KN
DRAWN MR
CHECKED KN
APPROVED VG

Ontario Northland

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NORTHEAST PASSENGER RAIL SERVICE
ONTARIO, CANADA
REINSTATED STATIONS (PACKAGE 1&2)

SIGN LIST

SIGNAGE & WAYFINDING

CONTRACT NUMBER 13258
SCALE NTS
DATE 03/18/2024
DRAWING NUMBER W00-006
SHEET 154 OF 173

# SIGN FAMILY

**NOTE:**
Artwork Templates are to be obtained directly from the Contract Drawings.
Any missing artwork will be provided by the Signage Consultant.
It is the responsibility of the Signage Contractor to generate all final artwork files, including custom messages, based on the templates provided and information / messages shown within the Contract Drawings.




AM2.4
AMENITIES ID -
POST MOUNTED
(GRAPHICS SHOWN ARE FOR POSTION ONLY)




AM5.3
ACCESSIBLE PARKING




D1
PERMISSIVE AND PROHIBITED




D2
THANK YOU WITH PUSH




D4
AUTOMATIC DOOR




D7
DOORS WILL UNLOCK




EV1
ELECTRIC VEHICLE
CHARGING ONLY - WALL




IS3
CUSTOMER PARKING ONLY




IS4
ATTENTION -
NORTHLAND NOT RESPONSIBLE




IS5
CUSTOMER PARKING ONLY




IS8
ADVISORY
QUESTION / HELP DECAL




NS3
PROHIBITIONS




NS4
CCTV




PL2R
FACILITY NAME




R16
DO NOT CROSS
(PROHIBITED AT PLATFORM LEVEL)




R33
PRESS FOR HEAT
DECALS




ROW
CN PRIVATE PROPERTY



S1.2
DISTRACTION PATTERN




TH1
FACILITY BEACON: VEHICULAR LOLLIPOP
(GRAPHICS SHOWN ARE FOR POSTION ONLY)




TH3.1.1
FACILITY MARKER: WALL MOUNTED

IFT DESIGN
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| 1 | 05/17/24 | ADDENDUM NO. 1 | MR | KN | VG |

REVISIONS

DISCLAIMER

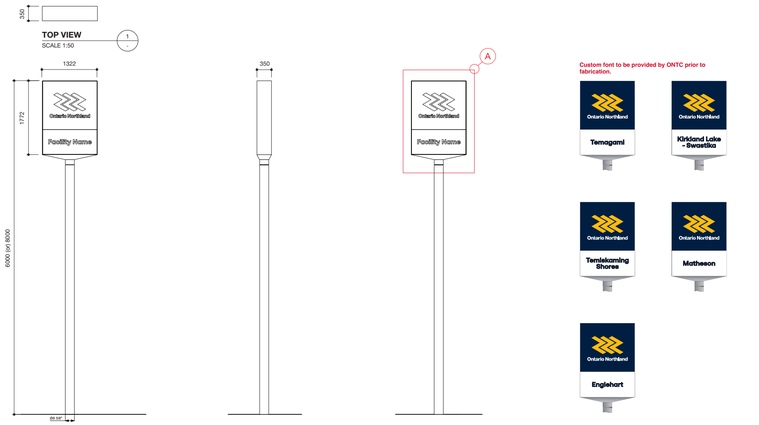
DESIGNED KN
DRAWN MR
CHECKED KN
APPROVED VG

Ontario Northland

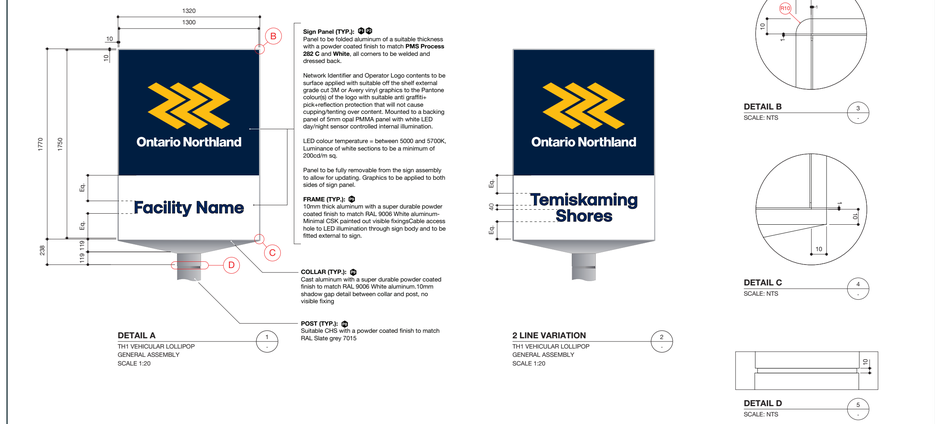
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NORTHEAST PASSENGER RAIL SERVICE
ONTARIO, CANADA
REINSTATED STATIONS (PACKAGE 1&2)
SIGN FAMILY
SIGNAGE & WAYFINDING

CONTRACT NUMBER 13258
SCALE NTS
DATE 03/18/2024
DRAWING NUMBER W00-010
SHEET 155 OF 173




SIGN TYPE - TH1 FACILITY BEACON: VEHICULAR LOLLIPOP - 1 OF 2
SCALE: NTS




SIGN TYPE - TH1 FACILITY BEACON: VEHICULAR LOLLIPOP - 2 OF 2
SCALE: NTS

IFT DESIGN
NOT FOR CONSTRUCTION

| NO. | DATE | MODIFICATION | DRAWN | CHKD. | APPRVD. |
|---|---|---|---|---|---|
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| 1 | 05/17/24 | ADDENDUM NO. 1 | MR | KN | VG |

REVISIONS

DISCLAIMER

DESIGNED KN
DRAWN MR
CHECKED KN
APPROVED VG

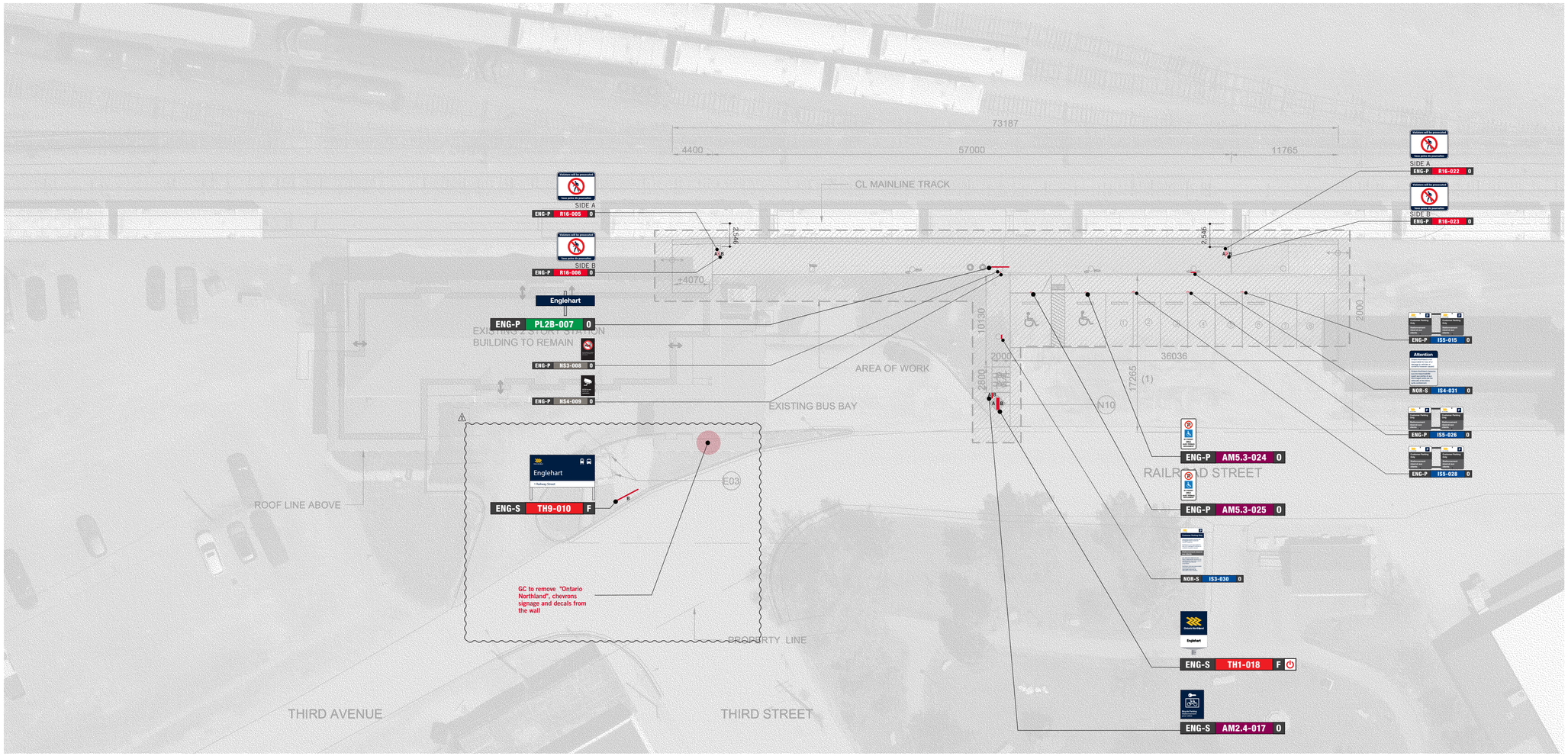
Ontario Northland

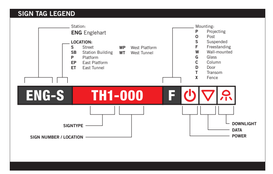
entro

NORTHEAST PASSENGER RAIL SERVICE
ONTARIO, CANADA
REINSTATED STATIONS (PACKAGE 1&2)
TECHNICAL DRAWINGS
SIGNAGE & WAYFINDING

CONTRACT NUMBER 13258
SCALE NTS
DATE 03/18/2024
DRAWING NUMBER W00-074
SHEET 162 OF 173

TRUE NORTH PROJECT NORTH




IFT DESIGN
NOT FOR CONSTRUCTION

| NO. | DATE | MODIFICATION | DRAWN | CHKD. | APPRVD. |
|---|---|---|---|---|---|
| 1 | 05/17/24 | ADDENDUM NO. 1 | MR | KN | VG |

REVISIONS

DISCLAIMER

DESIGNED KN
DRAWN MR
CHECKED KN
APPROVED VG

Ontario Northland

entro

NORTHEAST PASSENGER RAIL SERVICE
ONTARIO, CANADA
REINSTATED STATIONS (PACKAGE 1&2)

ENGLEHART STATION

SIGNAGE & WAYFINDING
SITE PLAN

CONTRACT NUMBER 13258
SCALE NTS
DATE 03/18/2024
DRAWING NUMBER W09-200
SHEET 169 OF 173