ST. JOHN'S

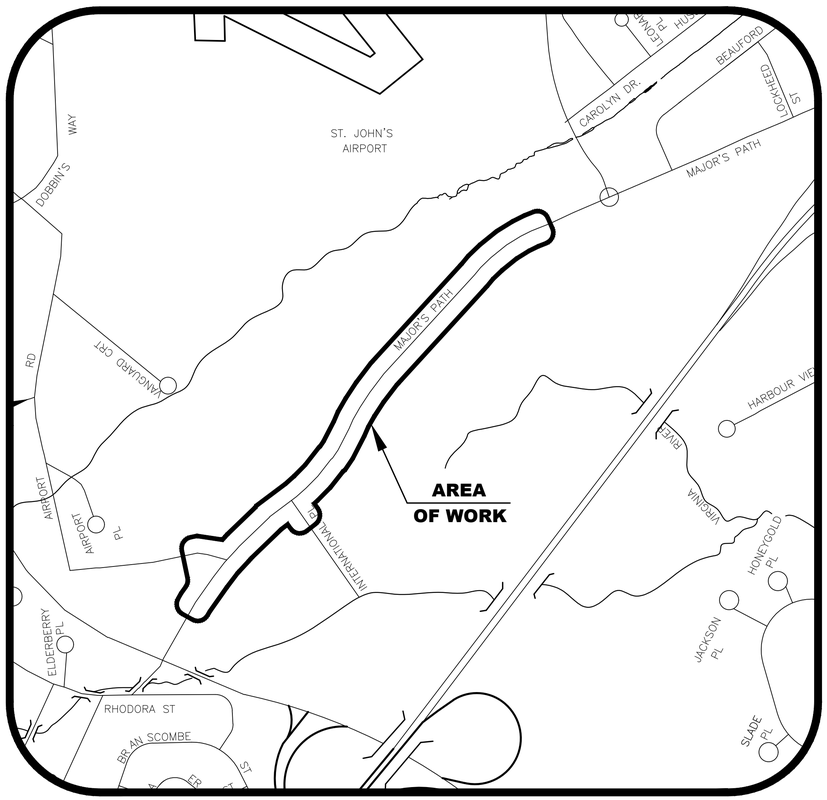
DEPARTMENT OF PLANNING, ENGINEERING AND REGULATORY SERVICES

ENGINEERING CONSULTANT:

PINNACLE ENGINEERING

SUITE 202 - 40 ABERDEEN AVE., ST. JOHN'S, NL A1A 5T3
PHONE: (709) 754-2114 ; FAX: (709) 738-0707
WWW.PINNACLEENGINEERING.CA

PROVINCE OF NEWFOUNDLAND
PERMIT HOLDER
CLASS "A"
This Permit Allows
PINNACLE ENGINEERING ULC
MIRC:
To practice Professional Engineering in Newfoundland and Labrador.
Permit No. as issued by PEGNL L0331
which is valid for the year 2024.



PROJECT TITLE:

MAJOR'S PATH UPGRADING

TENDER # 2024125

JUNE 2024 **P.N. 23040**

LIST OF DRAWINGS:

C01 GENERAL PLAN
C02 EXISTING CONDITIONS & REMOVAL PLAN - 01
C03 EXISTING CONDITIONS & REMOVAL PLAN - 02
C04 PLAN & PROFILE : MAJOR'S PATH - 01
C05 PLAN & PROFILE : MAJOR'S PATH - 02
C06 PLAN & PROFILE : MAJOR'S PATH - 03
C07 PLAN & PROFILE : INTERNATIONAL PL & AIRPORT RD
C08 GRADING EXCERPTS - CIVIC 197 & 229 DRIVEWAYS
C09 RECON BLOCK WALL - PLAN & SECTIONS
C10 SURFACE IMPROVEMENTS PLAN - 01
C11 SURFACE IMPROVEMENTS PLAN - 02
D01 CIVIL CONSTRUCTION DETAILS - 01
D02 CIVIL CONSTRUCTION DETAILS - 02

Newfoundland Labrador

Department of Transportation & Infrastructure
Government of Newfoundland and Labrador



PINNACLE ENGINEERING

GENERAL NOTES:

1. ALL WORK TO BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE CITY OF ST. JOHN'S SPECIFICATIONS BOOK.
2. TOPOGRAPHIC SURVEY BY PARDY SURVEYS INC. AS OF DECEMBER 2023 AND REFERENCED TO THE FOLLOWING CONTROL MONUMENTS. CONTRACTOR TO COMPLETE THE CONSTRUCTION LAYOUT FOR THE PROJECT REFERENCED TO THESE SAME CONTROL MONUMENTS:
   - BIGS103
     N 5 274 018.846
     E 325 950.759
     ELV 103.478
   - 020046
     N 5 275 158.411
     E 328 140.862
     ELV 81.048
3. AERIAL IMAGERY SHOWN ON THIS DWG IS FOR ILLUSTRATIVE PURPOSES ONLY AND MAY NOT REFLECT CURRENT EXISTING SITE CONDITIONS.
4. ALL MEASUREMENTS ARE HORIZONTAL GROUND DISTANCES IN METRES AND REFERENCED TO NAD83 DATUM.
5. LEGAL SURVEYOR TO ESTABLISH TBMS.
6. DO NOT SCALE FROM DRAWINGS.
7. ALL NEW CATCHBASINS TO BE COMPLETE WITH CURB INLET CB FRAME AND GRATE.

NO.	REVISIONS	DD/MM/YY
0	ISSUED FOR TENDER	26/06/24

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER — PROVINCE OF NEWFOUNDLAND
pegnl — PROFESSIONAL ENGINEERS AND GEOSCIENTISTS NEWFOUNDLAND & LABRADOR
TREVOR G. MOORE
SIGNATURE
28 JUNE 2024
DATE

PROVINCE OF NEWFOUNDLAND
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ST. JOHN'S
DEPARTMENT OF PLANNING, ENGINEERING AND REGULATORY SERVICES

PROJECT TITLE

MAJOR'S PATH UPGRADING
TENDER # 2024125

SHEET TITLE

GENERAL PLAN

PROJECT NO.
23040

DRAWN BY	CHECKED BY
MEWC	TGM
DATE	DRAWING NO.
JUNE 2024	C01
SCALE	
1 : 1500	

ST. JOHN'S
AIRPORT AUTHORITY
(REFER TO DWG C4 FOR CONSTRUCTION HEIGHT RESTRICTIONS ALONG AIRPORT PROPERTY BOUNDARIES)

HEBRON WAY

REMOVE HALF-SECTION OF SILENT KNIGHT COVER LOCATED APPROX 0.5m D/S OF EX MH 49988

NL POWER TO RELOCATE EX GUY POLES & WIRES. CONTRACTOR TO COORDINATE WITH NL POWER (TYP)

EX UTILITY POLE TO BE REMOVED BY NL POWER

REMOVE & DISPOSE OF EX CULVERT

REMOVE EX D.I. AND PROVIDE END CAP ON 300 PVC STORM SEWER

LIMITS OF WORK THIS CONTRACT

REMOVE & DISPOSE OF EX CULVERT

REMOVE SAND BAG (LOCATED 0.5m APPROX U/S OF EX MH 49388)

RELOCATE EX METROBUS SIGN

MAJOR'S PATH

EX BELL ALIANT STUB POLE TO BE REMOVED & DISPOSED OF BY CONTRACTOR

WITHIN LIMITS OF WORK, REMOVE ALL EX MH F&C's, SAWCUT EX CHIMNEY AND ADJUST TO NEW FINISHED GRADE (TYP) SEE DETAIL 3 DWG D2 FOR DETAILS

REMOVE HALF-SECTION OF SILENT KNIGHT COVER FROM INSIDE MH 50525

REMOVE ALL RETAINING WALLS, PLANTINGS, MULCHING, ETC LOCATED OUTSIDE CIVIC 111-113 PROPERTY

MAJOR'S PATH
STA. 0+000 TO 0+350

EX HYD & LEAD TO BE REMOVED TO MAIN LINE TEE. INSTALL 'FOSTER ADAPTOR' (OR APPROVED EQUAL) AND END CAP. REFER TO TECHNICAL REQUIREMENTS FOR WATERMAIN SHUTDOWN REQUIREMENTS TO COMPLETE THIS WORK.

REMOVE EX STM SEWER & CONC HEADWALL

REMOVE & DISPOSE OF EX CULVERT

RELOCATE EX WOOD PLANTER SIGN & PYLON SIGN

NL POWER TO RELOCATE EX POLE & WIRES. CONTRACTOR TO COORDINATE WITH NL POWER (TYP)

EX HYD & LEAD TO BE REMOVED TO MAIN LINE TEE. INSTALL 'FOSTER ADAPTOR' (OR APPROVED EQUAL) AND END CAP. REFER TO TECHNICAL REQUIREMENTS FOR WATERMAIN SHUTDOWN REQUIREMENTS TO COMPLETE THIS WORK.

REMOVE & DISPOSE OF EX CULVERT

REMOVE EX D.I.

MAJOR'S PATH

REMOVE & REPLACE EX STORM MH

REMOVE & DISPOSE OF EX CULVERT

REMOVE EX 600 CMP STORM SEWER & REPLACE WITH NEW 750 HDPE STORM SEWER (SEE DWG C5)

REMOVE & DISPOSE OF EX CULVERTS

REMOVE & DISPOSE OF EX CULVERT

WITHIN LIMITS OF WORK, REMOVE ALL EX MH F&C's, SAWCUT EX CHIMNEY AND ADJUST TO NEW FINISHED GRADE (TYP) SEE DETAIL 3 DWG D2 FOR DETAILS

REMOVE & DISPOSE OF EX CULVERT

REMOVE & DISPOSE OF EX CULVERT

MAJOR'S PATH
STA. 0+350 TO 0+700

NOTES:

1. CONTRACTOR TO CHANNEL CUT / SAW CUT EXISTING ASPHALT / CONCRETE FOR SMOOTH TRANSITION.
2. WITHIN LIMITS OF WORK, CONTRACTOR TO REMOVE ALL EXISTING CONCRETE CURB, ASPHALT, GRAVEL, & LANDSCAPE SURFACES AND REPLACE AS PER THE SURFACE IMPROVEMENTS PLANS (DWGS C10-C11).
3. CONTRACTOR SHALL OBTAIN NECESSARY PERMITS FROM UTILITY OWNERS TO COMPLETE THE WORK. ALL COSTS ASSOCIATED WITH COMPLYING TO UTILITY OWNER REQUIREMENTS (I.E. PERMITS, SELECTION OF MACHINERY SIZE FOR CLEARANCE, PROTECTION OF UTILITIES, ETC) ARE INCIDENTAL TO CONTRACT.
4. LOCATION OF EXISTING UNDERGROUND INFRASTRUCTURE IS APPROXIMATE ONLY. CONTRACTOR TO CONFIRM ONSITE AND ADVISE ENGINEER OF ANY DISCREPANCIES.
5. ALL EXISTING CMP STORM SEWERS HIGHLIGHTED ON REMOVAL PLAN ARE TO BE REMOVED & DISPOSED OF OFFSITE.
6. CONTRACTOR TO COORDINATE WITH BUSINESS OWNERS ON RELOCATION OF EXTERIOR PORTABLE SIGNAGE DURING CONSTRUCTION.

LEGEND:

- LIMITS OF WORK / REINSTATEMENT
- 00.00 — EXISTING GROUND SPOT ELEVATIONS
- PROPERTY BOUNDARY
- EXISTING FENCELINE
- EXISTING DITCH
- EXISTING UTILITY POLE
- EXISTING OH WIRES
- EXISTING WATERMAIN
- EXISTING WATER SERVICE
- EXISTING HYDRANT & MARKER POLE
- EXISTING LINE VALVE
- CS — EXISTING CURB STOP
- EXISTING SANITARY SEWER
- EXISTING SANITARY SERVICE
- 00005 — EXISTING SANITARY MANHOLE
- EXISTING STORM SEWER
- EXISTING STORM SERVICE
- 0000R — EXISTING STORM MANHOLE
- EXISTING STORM CATCHBASIN
- EXISTING STORM CULVERT
- NEW UTILITY POLE (BY NL POWER)
- NEW OH WIRES (BY NL POWER)
- LIMITS OF CLEARING & GRUBBING
- EX ASPHALT TO BE REMOVED
- EX SEWER TO BE REMOVED / GROUTED (SEE NOTE 5)
- EX CULVERT TO BE REMOVED
- EX MANHOLE TO BE REMOVED
- EX HYDRANT TO BE RELOCATED
- BH-01 — BORE HOLE LOCATION

NO.	REVISIONS	DD/MM/YY
0	ISSUED FOR TENDER	26/06/24

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER — PROVINCE OF NEWFOUNDLAND AND LABRADOR
pegnl — PROFESSIONAL ENGINEERS AND GEOSCIENTISTS NEWFOUNDLAND & LABRADOR
TREVOR G. MOORE
SIGNATURE
26 JUNE 2024
DATE

PROVINCE OF NEWFOUNDLAND
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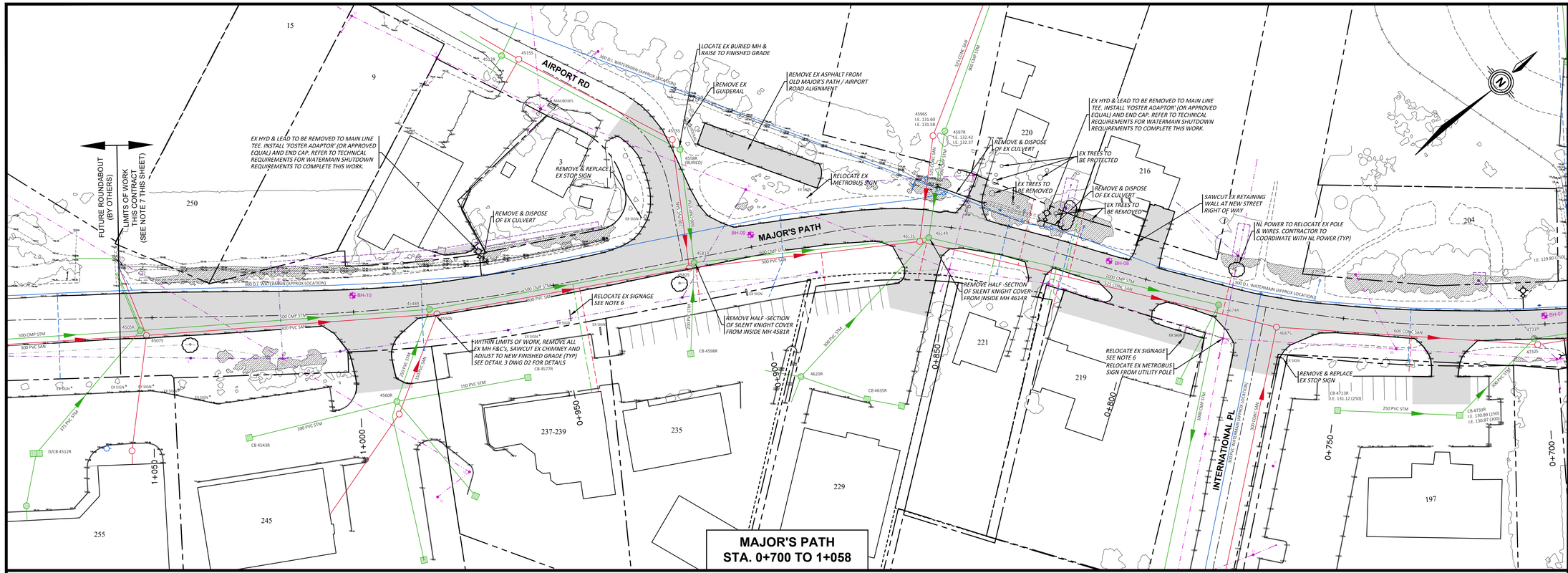
CLIENT
ST. JOHN'S
DEPARTMENT OF PLANNING, ENGINEERING AND REGULATORY SERVICES

PROJECT TITLE
MAJOR'S PATH UPGRADING
TENDER # 2024125

SHEET TITLE
EXISTING CONDITIONS & REMOVAL PLAN - 01

PROJECT NO.
23040

DRAWN BY	CHECKED BY
MEWC	TGM
DATE	DRAWING NO.
JUNE 2024	C02
SCALE	
1 : 500	



PINNACLE ENGINEERING

NOTES:

1. CONTRACTOR TO CHANNEL CUT / SAW CUT EXISTING ASPHALT / CONCRETE FOR SMOOTH TRANSITION.
2. WITHIN LIMITS OF WORK, CONTRACTOR TO REMOVE ALL EXISTING CONCRETE CURB, ASPHALT, GRAVEL & LANDSCAPE SURFACES AND REPLACE AS PER THE SURFACE IMPROVEMENTS PLANS (DWGS C10-C11).
3. CONTRACTOR SHALL OBTAIN NECESSARY PERMITS FROM UTILITY OWNERS TO COMPLETE THE WORK. ALL COSTS ASSOCIATED WITH COMPLYING TO UTILITY OWNER REQUIREMENTS (I.E. PERMITS, SELECTION OF MACHINERY SIZE FOR CLEARANCE, PROTECTION OF UTILITIES, ETC) ARE INCIDENTAL TO CONTRACT.
4. LOCATION OF EXISTING UNDERGROUND INFRASTRUCTURE IS APPROXIMATE ONLY. CONTRACTOR TO CONFIRM ONSITE AND ADVISE ENGINEER OF ANY DISCREPANCIES.
5. ALL EXISTING CMP STORM SEWERS HIGHLIGHTED ON REMOVAL PLAN ARE TO BE REMOVED & DISPOSED OF OFFSITE.
6. CONTRACTOR TO COORDINATE WITH BUSINESS OWNERS ON TEMPORARY OF EXTERIOR PORTABLE SIGNAGE DURING CONSTRUCTION.
7. CONTRACTOR SHALL COORDINATE CONSTRUCTION SEQUENCE / SCHEDULE WITH ROUNDABOUT CONTRACTOR TO MINIMIZE IMPACT TO VEHICULAR AND PEDESTRIAN TRAFFIC.

LEGEND:

- LIMITS OF WORK / REINSTATEMENT
- EXISTING GROUND SPOT ELEVATIONS
- PROPERTY BOUNDARY
- EXISTING FENCELINE
- EXISTING DITCH
- EXISTING UTILITY POLE
- EXISTING OH WIRES
- EXISTING WATERMAIN
- EXISTING WATER SERVICE
- EXISTING HYDRANT & MARKER POLE
- EXISTING LINE VALVE
- EXISTING CURB STOP
- EXISTING SANITARY SEWER
- EXISTING SANITARY SERVICE
- EXISTING SANITARY MANHOLE
- EXISTING STORM SEWER
- EXISTING STORM SERVICE
- EXISTING STORM MANHOLE
- EXISTING STORM CATCHBASIN
- EXISTING STORM CULVERT
- NEW UTILITY POLE (BY NL POWER)
- NEW OH WIRES (BY NL POWER)
- LIMITS OF CLEARING & GRUBBING
- EX ASPHALT TO BE REMOVED
- EX SEWER TO BE REMOVED / GROUTED (SEE NOTE 5)
- EX CULVERT TO BE REMOVED
- EX MANHOLE TO BE REMOVED
- EX HYDRANT TO BE RELOCATED
- BH-01 BORE HOLE LOCATION

NO.	REVISIONS	DD/MM/YY
0	ISSUED FOR TENDER	26/06/24

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER — PROVINCE OF NEWFOUNDLAND
pegnl — PROFESSIONAL ENGINEERS AND GEOSCIENTISTS NEWFOUNDLAND & LABRADOR
TREVOR G. MOORE
SIGNATURE
26 JUNE 2024
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PROVINCE OF NEWFOUNDLAND
pegnl — PROFESSIONAL ENGINEERS AND GEOSCIENTISTS NEWFOUNDLAND & LABRADOR
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DEPARTMENT OF PLANNING, ENGINEERING AND REGULATORY SERVICES

PROJECT TITLE

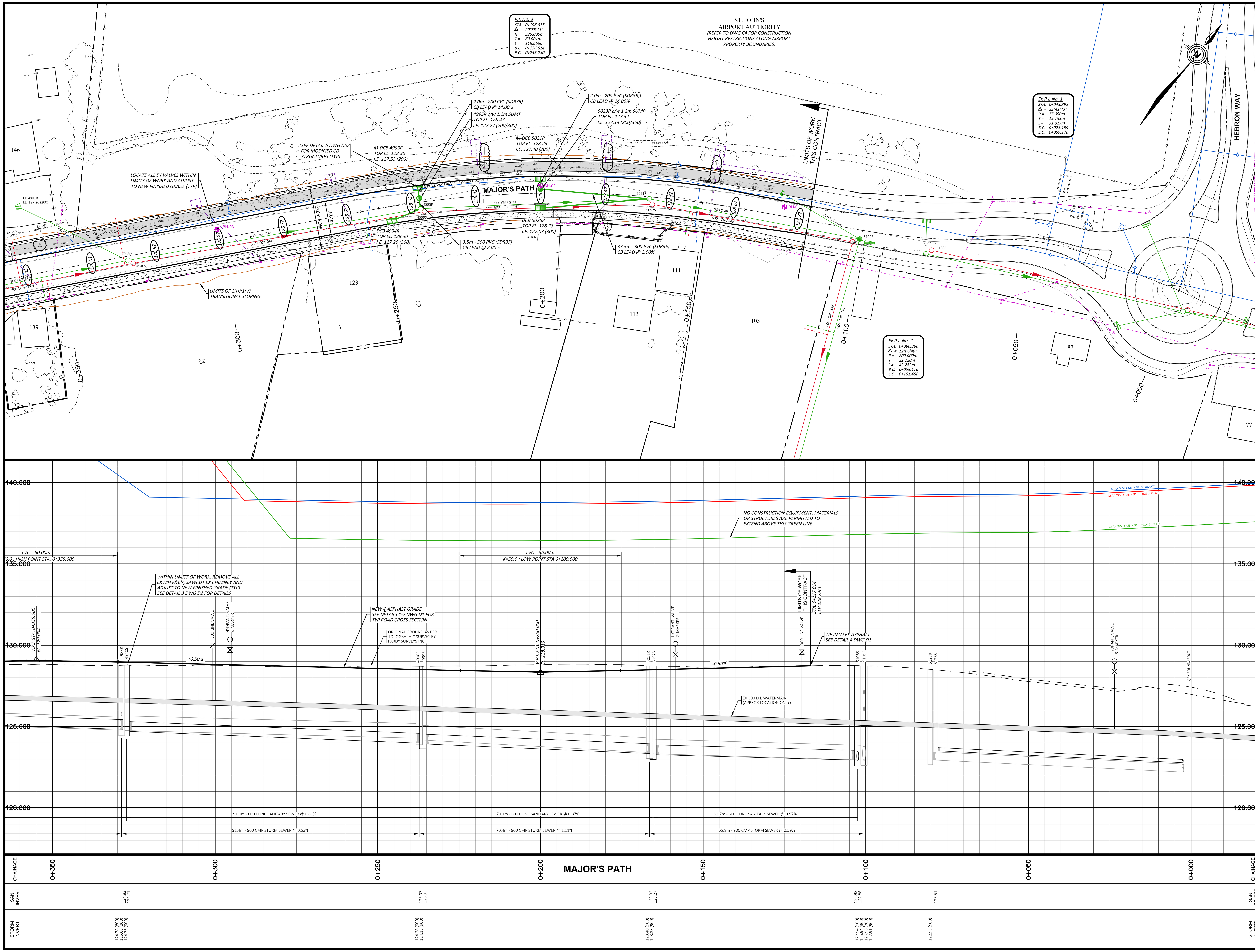
MAJOR'S PATH UPGRADING
TENDER # 2024125

SHEET TITLE

EXISTING CONDITIONS & REMOVAL PLAN - 02

PROJECT NO.
23040

DRAWN BY	CHECKED BY
MEWC	TGM
DATE: JUNE 2024	DRAWING NO.: C03
SCALE: 1 : 500	



PINNACLE ENGINEERING

NOTES:

1. CONFIRM EX PIPE ELEVATIONS AT CROSSINGS AND TIE-IN LOCATIONS PRIOR TO SHOP DWG SUBMITTALS OF MANHOLES / CATCHBASINS. ADVISE ENGINEER OF ANY DISCREPANCIES.
2. CONTRACTOR SHALL OBTAIN NECESSARY PERMITS FROM UTILITY OWNERS TO COMPLETE THE WORK. ALL COSTS ASSOCIATED WITH COMPLYING TO UTILITY OWNER REQUIREMENTS (I.E. PERMITS, SELECTION OF MACHINERY SIZE FOR CLEARANCE, PROTECTION OF UTILITIES, ETC) ARE INCIDENTAL TO CONTRACT.
3. WITHIN LIMITS OF WORK, CONTRACTOR TO ADJUST ALL EX INFRASTRUCTURE (I.E. MANHOLES, CATCHBASINS, VALVES, HYDRANTS, ETC) TO NEW FINISHED GRADE. CONTRACTOR TO REPLACE EX MANHOLE FRAME & COVERS WITH NEW SELF-LEVELING FRAME & COVER IN ACCORDANCE WITH CITY OF ST. JOHN'S SPECIFICATIONS BOOK.

LEGEND:

- LIMITS OF WORK / REINSTATEMENT
- EXISTING GROUND SPOT ELEVATIONS
- PROPERTY BOUNDARY
- EXISTING FENCELINE
- EXISTING DITCH
- EXISTING UTILITY POLE
- EXISTING OH WIRES
- EXISTING WATERMAIN
- EXISTING WATER SERVICE
- EXISTING HYDRANT & MARKER POLE
- EXISTING LINE VALVE
- EXISTING CURB STOP
- EXISTING SANITARY SEWER
- EXISTING SANITARY SERVICE
- EXISTING SANITARY MANHOLE
- EXISTING STORM SEWER
- EXISTING STORM SERVICE
- EXISTING STORM MANHOLE
- EXISTING CATCHBASIN
- EXISTING STORM CULVERT
- NEW UTILITY POLE (BY NL POWER)
- NEW OH WIRES (BY NL POWER)
- RELOCATED HYDRANT
- NEW STORM SEWER
- NEW STORM MANHOLE
- NEW STORM CATCHBASIN
- NEW STORM DITCH INLET
- LIMITS OF TRANSITIONAL SLOPING
- BORE HOLE LOCATION

NO.	REVISIONS	DD/MM/YY
0	ISSUED FOR TENDER	26/06/24

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER — pegnl PROFESSIONAL ENGINEERS AND GEOSCIENTISTS NEWFOUNDLAND & LABRADOR — TREVOR G. MOORE — SIGNATURE — 26 JUNE 2024 — DATE — PROVINCE OF NEWFOUNDLAND

PROVINCE OF NEWFOUNDLAND
PERMIT HOLDER
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DEPARTMENT OF PLANNING, ENGINEERING AND REGULATORY SERVICES

PROJECT TITLE

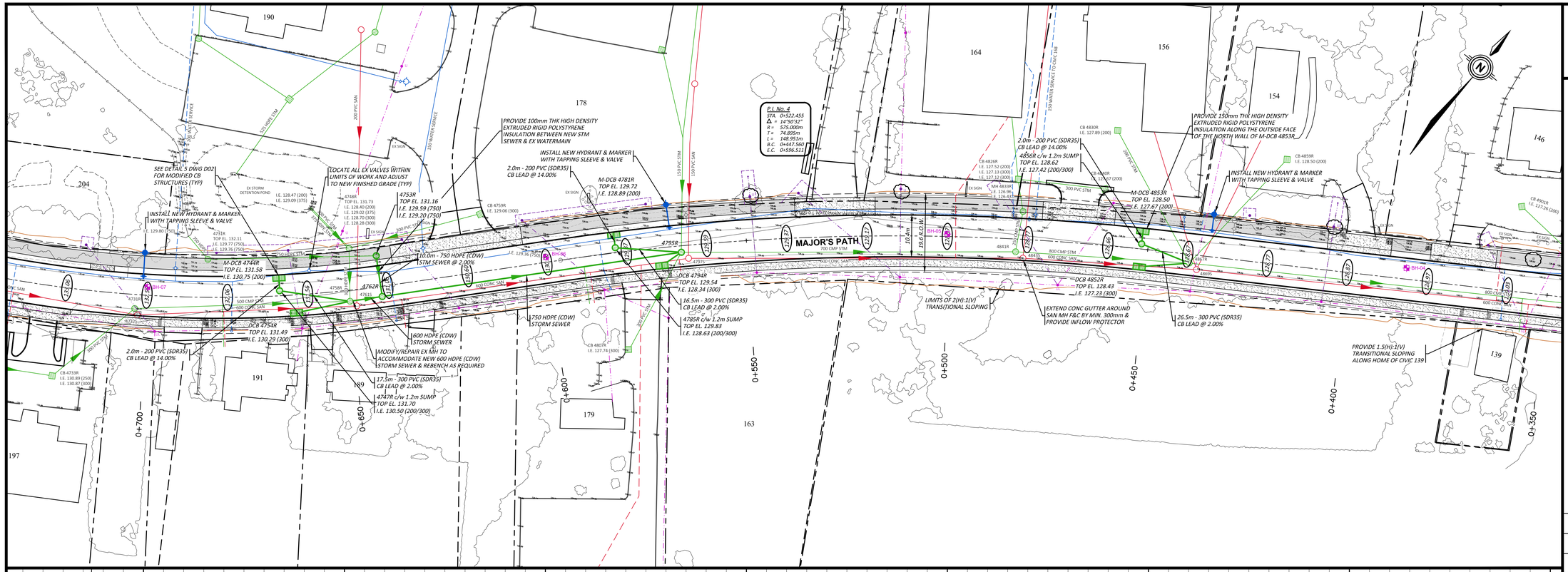
MAJOR'S PATH UPGRADING
TENDER # 2024125

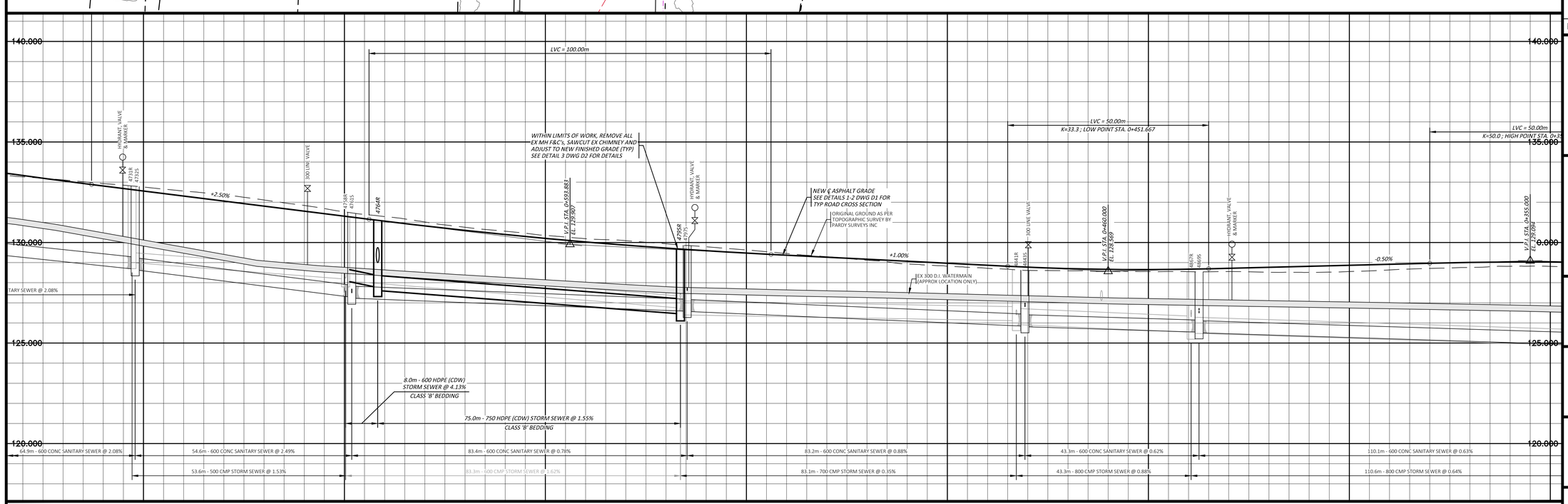
SHEET TITLE

PLAN & PROFILE:
MAJOR'S PATH - 01

PROJECT NO. 23040

DRAWN BY: MEWC
CHECKED BY: TGM
DATE: JUNE 2024
DRAWING NO.: C04
SCALE: 1 : 500 (H), 1 : 100 (V)





PINNACLE ENGINEERING

NOTES:

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LEGEND:

- LIMITS OF WORK / REINSTATEMENT
- 000.00 — EXISTING GROUND SPOT ELEVATIONS
- PROPERTY BOUNDARY
- X—X — EXISTING FENCELINE
- D—D — EXISTING DITCH
- EXISTING UTILITY POLE
- EXISTING OH WIRES
- EXISTING WATERMAIN
- EXISTING WATER SERVICE
- EXISTING HYDRANT & MARKER POLE
- EXISTING LINE VALVE
- CS — EXISTING CURB STOP
- EXISTING SANITARY SEWER
- EXISTING SANITARY SERVICE
- 00005 — EXISTING SANITARY MANHOLE
- EXISTING STORM SEWER
- EXISTING STORM SERVICE
- 0000R — EXISTING STORM MANHOLE
- EXISTING CATCHBASIN
- EXISTING STORM CULVERT
- NEW UTILITY POLE (BY NL POWER)
- NEW OH WIRES (BY NL POWER)
- RELOCATED HYDRANT
- NEW STORM SEWER
- 0000R — NEW STORM MANHOLE
- NEW STORM CATCHBASIN
- NEW STORM DITCH INLET
- LIMITS OF TRANSITIONAL SLOPING
- BH-01 — BORE HOLE LOCATION

NO.	REVISIONS	DD/MM/YY
0	ISSUED FOR TENDER	26/06/24

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER — pegnl — PROFESSIONAL ENGINEERS AND GEOSCIENTISTS NEWFOUNDLAND & LABRADOR — TREVOR G. MOORE — SIGNATURE — 26 JUNE 2024 — DATE — PROVINCE OF NEWFOUNDLAND

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pegnl — PROFESSIONAL ENGINEERS AND GEOSCIENTISTS NEWFOUNDLAND & LABRADOR
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DEPARTMENT OF PLANNING, ENGINEERING AND REGULATORY SERVICES

PROJECT TITLE

MAJOR'S PATH UPGRADING
TENDER # 2024125

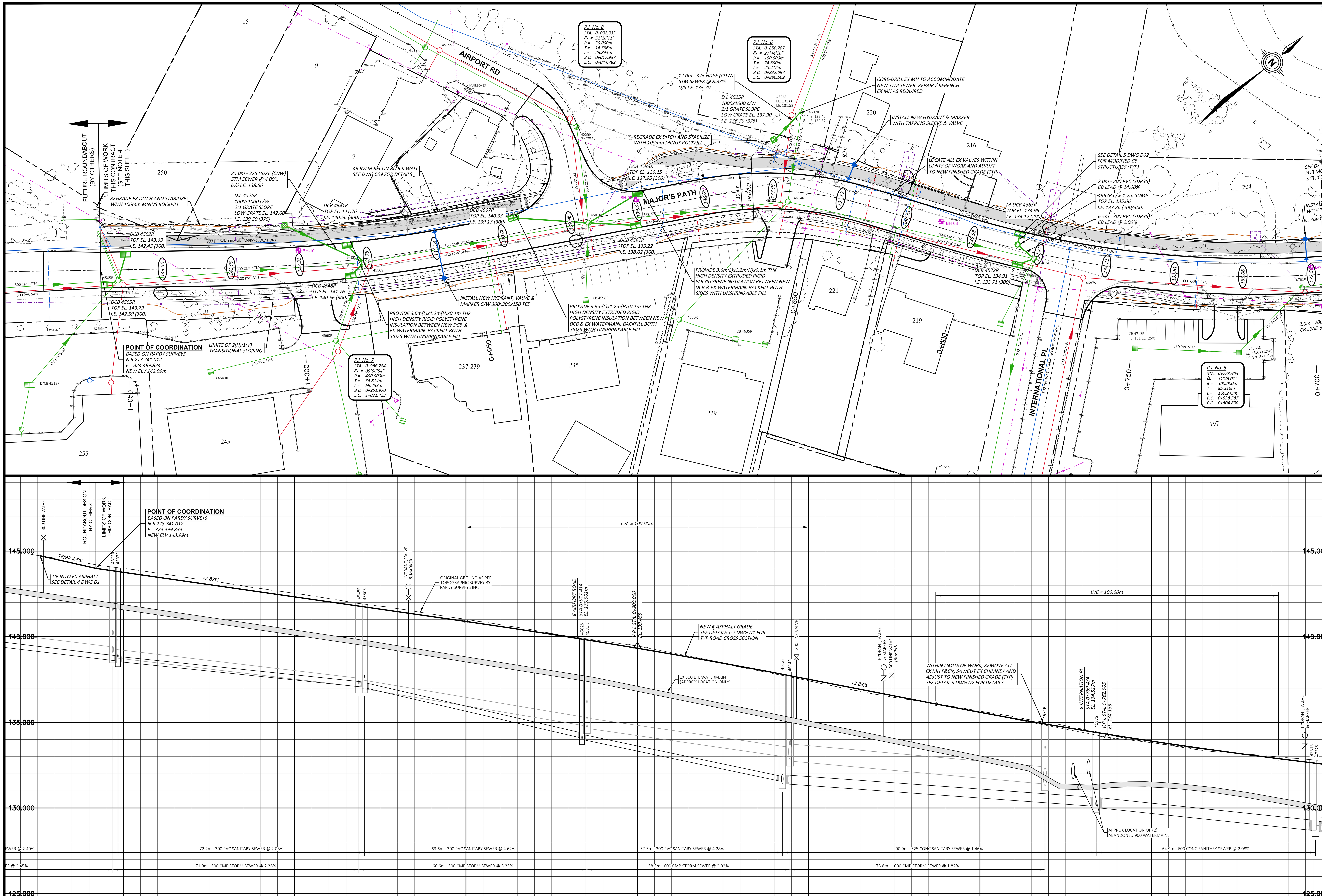
SHEET TITLE

PLAN & PROFILE:
MAJOR'S PATH - 02

PROJECT NO.

23040

DRAWN BY	CHECKED BY
MEWC	TGM
DATE	DRAWING NO.
JUNE 2024	C05
SCALE	
1 : 500 (H) 1 : 100 (V)	



CHAINAGE	1+050	1+000	0+950	0+900	0+850	0+800	0+750	0+700
SAN. INVERT	138.58 139.76 138.78 138.55; 137.05 137.62 137.02			134.08 134.02 134.00	131.54 131.44 131.42		130.09 130.11 130.02	128.67 128.64
STORM INVERT	138.90 (500) 141.52 (300) 140.09 (300) 139.07 (375) 138.78 (500); 137.08 (500) 137.21 (250) 137.01 (500)			134.78 (500) 134.73 (600) 136.11 (200) 134.65 (600)	132.94 (600) 132.84 (900) 133.66 (300) 132.74 (1000)	131.40 (1000) 133.45 (200) 131.31 (1000)		129.91 (300) 129.00 (500)

PINNACLE ENGINEERING

NOTES:

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2. CONTRACTOR SHALL OBTAIN NECESSARY PERMITS FROM UTILITY OWNERS TO COMPLETE THE WORK. ALL COSTS ASSOCIATED WITH COMPLYING TO UTILITY OWNER REQUIREMENTS (I.E. PERMITS, SELECTION OF MACHINERY SIZE FOR CLEARANCE, PROTECTION OF UTILITIES, ETC) ARE INCIDENTAL TO CONTRACT.
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4. CONTRACTOR SHALL COORDINATE CONSTRUCTION SEQUENCE / SCHEDULE WITH ROUNDABOUT CONTRACTOR TO MINIMIZE IMPACT TO VEHICULAR AND PEDESTRIAN TRAFFIC.

LEGEND:

- LIMITS OF WORK / REINSTATEMENT
- EXISTING GROUND SPOT ELEVATIONS
- PROPERTY BOUNDARY
- EXISTING FENCELINE
- EXISTING DITCH
- EXISTING UTILITY POLE
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- NEW STORM SEWER
- NEW STORM MANHOLE
- NEW STORM CATCHBASIN
- NEW STORM DITCH INLET
- LIMITS OF TRANSITIONAL SLOPING
- BORE HOLE LOCATION

NO.	REVISIONS	DD/MM/YY
0	ISSUED FOR TENDER	26/06/24

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER — pegnl — TREVOR G. MOORE — SIGNATURE — 26 JUNE 2024 — DATE — PROVINCE OF NEWFOUNDLAND

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PROJECT TITLE

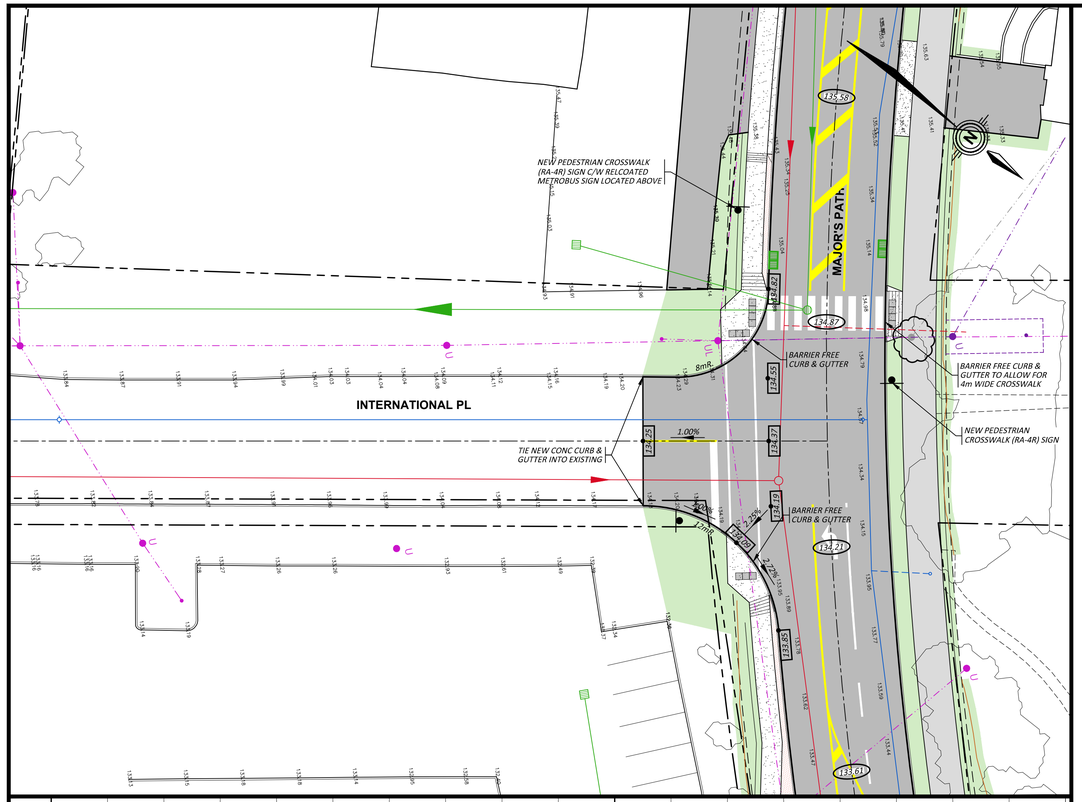
MAJOR'S PATH UPGRADING
TENDER # 2024125

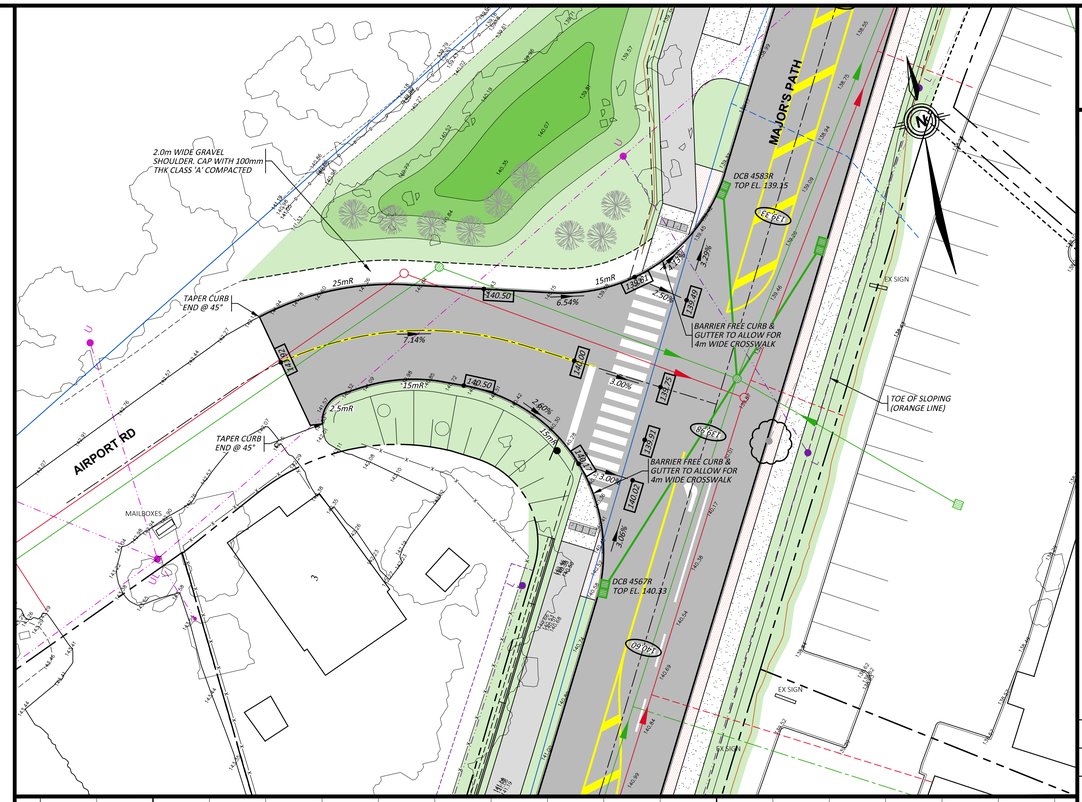
SHEET TITLE

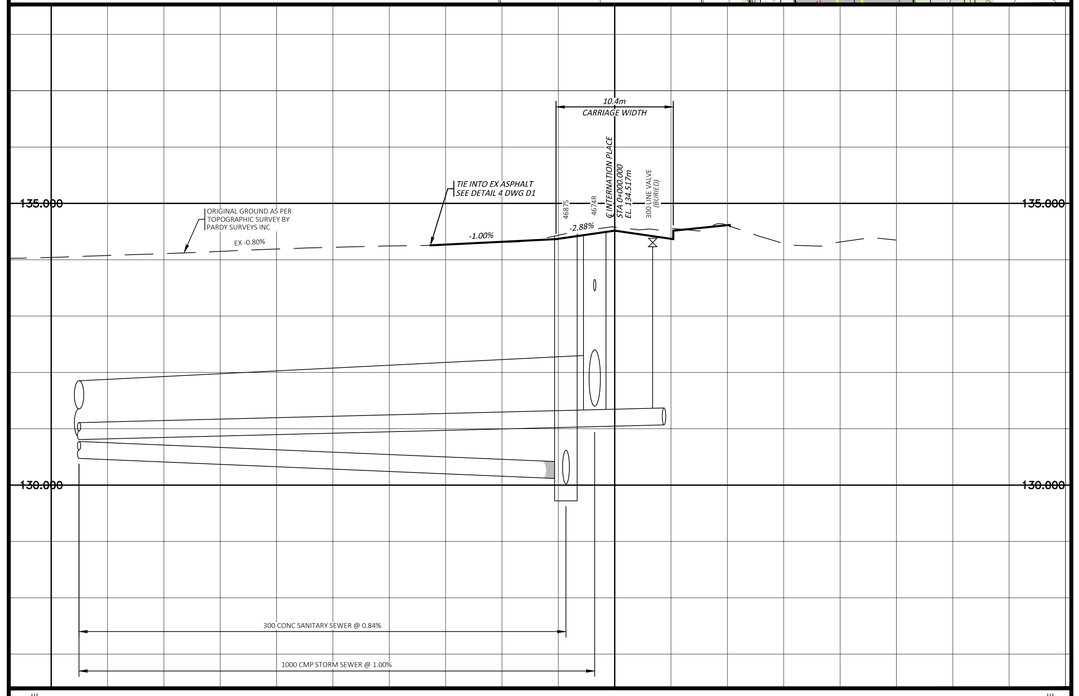
PLAN & PROFILE:
MAJOR'S PATH - 03

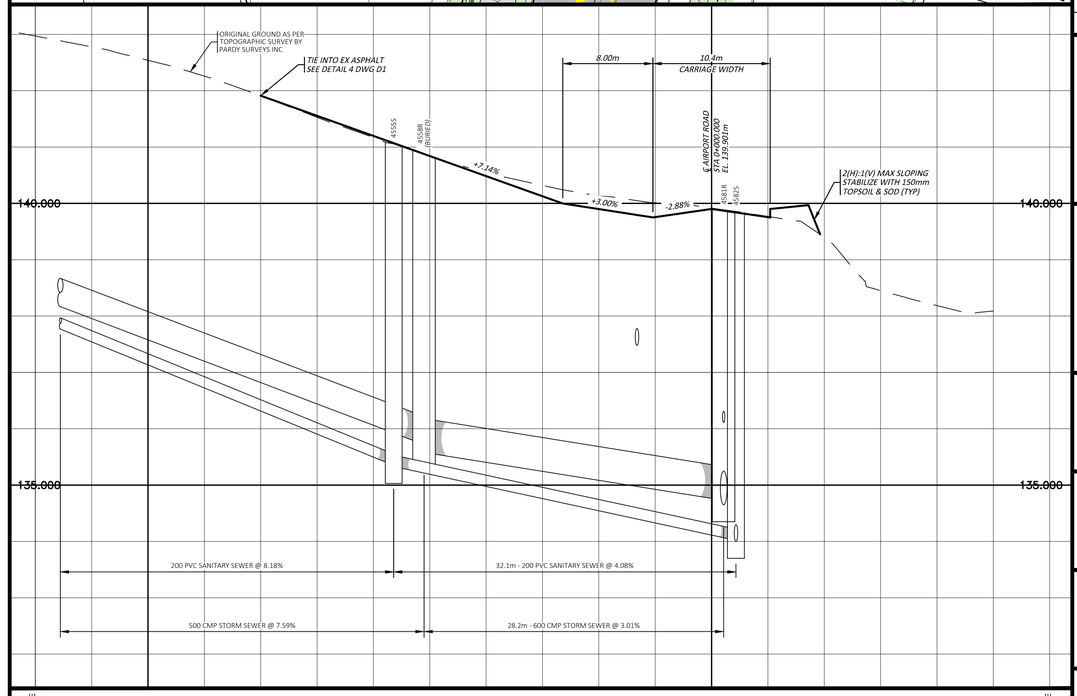
PROJECT NO. 23040

DRAWN BY: MEWC
CHECKED BY: TGM
DATE: JUNE 2024
DRAWING NO.: C06
SCALE: 1 : 500 (H) 1 : 100 (V)









PINNACLE ENGINEERING

NOTES:

1. CONFIRM EX PIPE ELEVATIONS AT CROSSINGS AND TIE-IN LOCATIONS PRIOR TO SHOP DWG SUBMITTALS OF MANHOLES / CATCHBASINS. ADVISE ENGINEER OF ANY DISCREPANCIES.
2. CONTRACTOR SHALL OBTAIN NECESSARY PERMITS FROM UTILITY OWNERS TO COMPLETE THE WORK. ALL COSTS ASSOCIATED WITH COMPLYING TO UTILITY OWNER REQUIREMENTS (I.E. PERMITS, SELECTION OF MACHINERY SIZE FOR CLEARANCE, PROTECTION OF UTILITIES, ETC) ARE INCIDENTAL TO CONTRACT.
3. WITHIN LIMITS OF WORK, CONTRACTOR TO ADJUST ALL EX INFRASTRUCTURE (I.E. MANHOLES, CATCHBASINS, VALVES, HYDRANTS, ETC) TO NEW FINISHED GRADE. CONTRACTOR TO REPLACE WITH MANHOLE FRAME & COVERS WITH NEW SELF-LEVELING FRAME & COVER IN ACCORDANCE WITH CITY OF ST. JOHN'S SPECIFICATIONS BOOK.

LEGEND:

- LIMITS OF WORK / REINSTATEMENT
- 000.00 EXISTING GROUND SPOT ELEVATIONS
- PROPERTY BOUNDARY
- EXISTING FENCELINE
- EXISTING DITCH
- EXISTING UTILITY POLE
- EXISTING OH WIRES
- EXISTING WATERMAIN
- EXISTING WATER SERVICE
- EXISTING HYDRANT & MARKER POLE
- EXISTING LINE VALVE
- CS EXISTING CURB STOP
- EXISTING SANITARY SEWER
- EXISTING SANITARY SERVICE
- 00000S EXISTING SANITARY MANHOLE
- EXISTING STORM SEWER
- EXISTING STORM SERVICE
- 0000R EXISTING STORM MANHOLE
- EXISTING CATCHBASIN
- EXISTING STORM CULVERT
- NEW UTILITY POLE (BY NL POWER)
- NEW OH WIRES (BY NL POWER)
- RELOCATED HYDRANT
- NEW STORM SEWER
- 0000R NEW STORM MANHOLE
- NEW STORM CATCHBASIN
- NEW STORM DITCH INLET
- LIMITS OF TRANSITIONAL SLOPING

NO.	REVISIONS	DD/MM/YY
0	ISSUED FOR TENDER	26/06/24

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER — PROVINCE OF NEWFOUNDLAND AND LABRADOR
pegnl — PROFESSIONAL ENGINEERS AND GEOSCIENTISTS NEWFOUNDLAND & LABRADOR
TREVOR G. MOORE
SIGNATURE
26 JUNE 2024
DATE

PROVINCE OF NEWFOUNDLAND
pegnl — PROFESSIONAL ENGINEERS AND GEOSCIENTISTS NEWFOUNDLAND & LABRADOR
PERMIT HOLDER
CLASS "A"
This Permit Allows
PINNACLE ENGINEERING ULC
MIRC:
To practice Professional Engineering in Newfoundland and Labrador. Permit No. as issued by PEGNL L0331 which is valid for the year 2024.

CLIENT

ST. JOHN'S
DEPARTMENT OF PLANNING, ENGINEERING AND REGULATORY SERVICES

PROJECT TITLE

MAJOR'S PATH UPGRADING
TENDER # 2024125

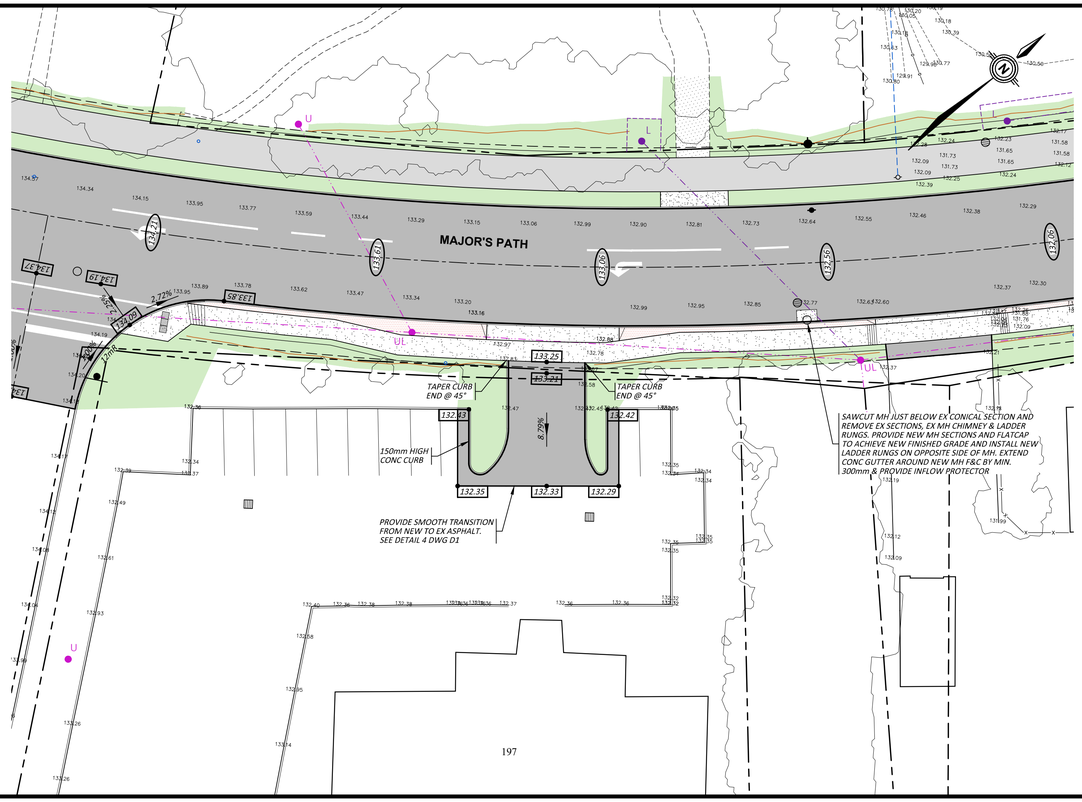
SHEET TITLE

PLAN & PROFILE: INTERNATIONAL PLACE & AIRPORT ROAD

PROJECT NO.

23040

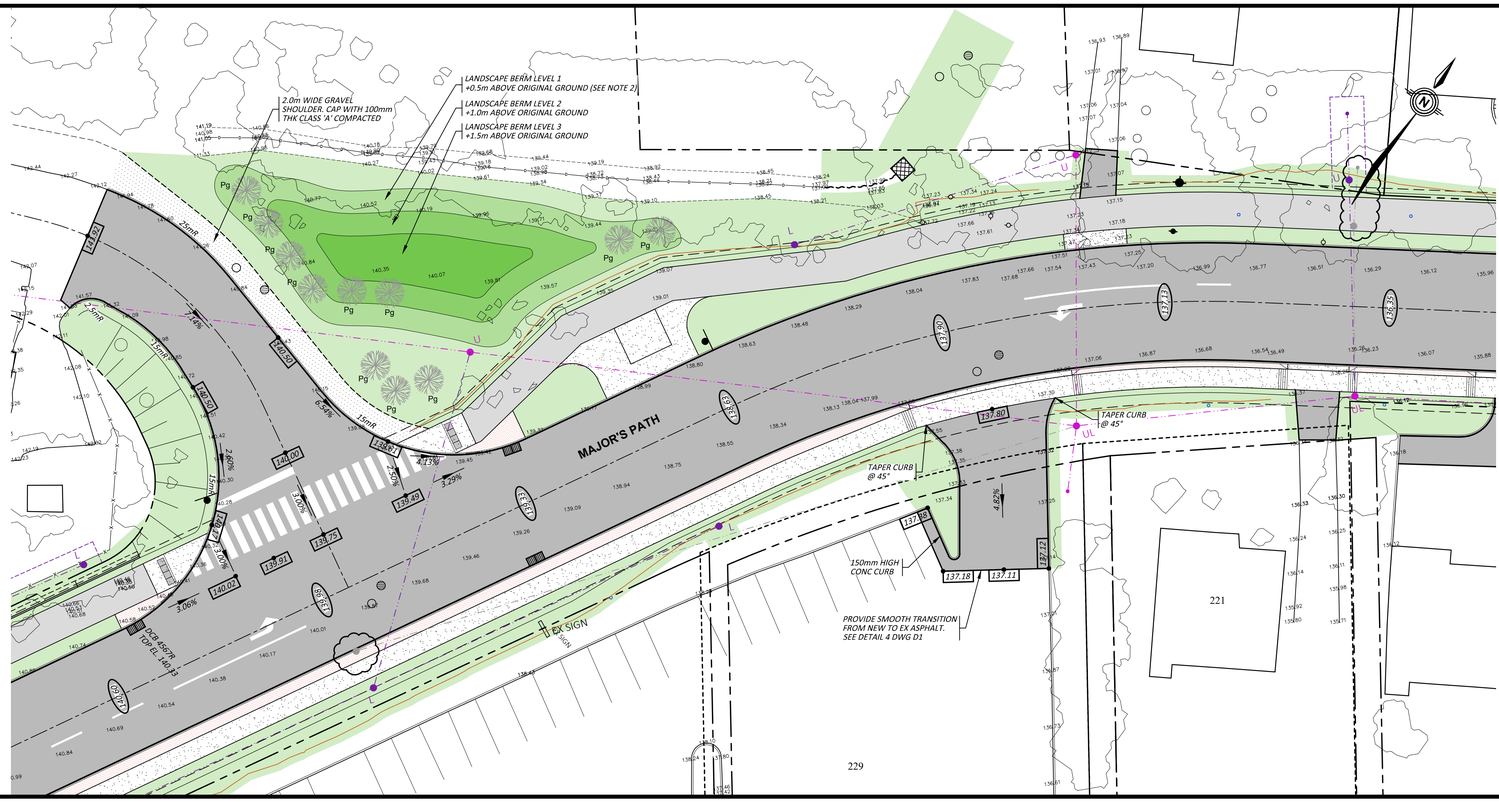
DRAWN BY	CHECKED BY
MEWC	TGM
DATE	DRAWING NO.
JUNE 2024	C07
SCALE 1 : 250 (H) 1 : 50 (V)	



PLANT LIST				
SYM	QTY	BOTANICAL NAME	COMMON NAME	SIZE
Pg	11	PICEA GLAUCA	WHITE SPRUCE	150cm HEIGHT

LANDSCAPE / PLANTING NOTES:

1. ALL LANDSCAPE WORK TO BE PERFORMED IN ACCORDANCE WITH "DIVISION 5: SPECIFICATIONS FOR REINSTATEMENT" OF THE CITY OF ST. JOHN'S SPECIFICATIONS BOOK.
2. PRIOR TO CONSTRUCTING BERM, AREA SHALL BE CLEARED & GRUBBED AND SCARIFIED. CONSTRUCT BERM WITH OM COMPACTED TO 95% STANDARD PROCTOR DENSITY. MAX TRANSITIONAL SLOPING SHALL BE 4(H):1(V). BERMS TO BE STABILIZED WITH NO-MOW HYDROSEED.
3. NO-MOW HYDROSEEDING MIX TO CONSIST OF THE FOLLOWING SPECIES:
   - ANNUAL RYE GRASS
   - CANADA BLUE GRASS
   - CREEPING RED FESCUE (BOREAL)
   - HARD FESCUE
   - TALL FESCUE
   - TIMOTHY GRASS
   - WILD WHITE CLOVER
   - BIRDSFOOT TREFOIL (LEO)
4. EXACT LOCATION OF TREES TO BE DETERMINED IN FIELD.
5. ALL TREES/SHRUBS SHALL BE PLANTED IN ACCORDANCE WITH THE FOLLOWING:
   - TREES TO BE PLANTED IN GOOD QUALITY CULTIVATED TOPSOIL CONSISTING OF 50% LOAM, 30% DECOMPOSED ORGANIC MATTER AND 20% SAND.
   - CULTIVATED TOPSOIL TO PROVIDE FOR A MINIMUM POROUS ROOT ZONE OF 1.25m³ (1.25m-WIDTH, 1.25m-LENGTH, 0.80m DEPTH) TO ENABLE NORMAL ROOT DEVELOPMENT AND TREE ESTABLISHMENT.
   - PLANTING HOLE TO BE 2-3 TIMES WIDTH OF ROOT BALL. TREE TO BE PLACED IN CENTER OF HOLE. HEIGHT OF TREE TO BE ADJUSTED USING PARENT MATERIAL TO ENSURE PROPER TREE HEIGHT.
   - SCARIFY SIDES OF PLANTING PIT.
   - BOTTOM OF ROOT BALL TO REST ON EXISTING OR COMPACTED SOIL. TOP OF ROOT BALL SHALL BE SLIGHTLY ABOVE GRADE TO ALLOW FOR SETTLING. CUT AND REMOVE TOP 1/3 TO 1/2 OF BURLAP AND WIRE BASKET FROM ROOTBALL.
   - PROVIDE ROUND-TOPPED SOIL SAUCER 100mm HIGH x 200mm WIDE ABOVE ROOT BALL OF TREE. SURFACE SHALL BE CONSTRUCTED AROUND THE ROOT BALL. BERM SHALL BEGIN IN ROOT BALL PERIPHERY.
   - PRIOR TO MULCHING, LIGHTLY TAMP SOIL AROUND ROOT BALL IN 150mm LIFTS TO BRACE TREE. DO NOT OVER COMPACT. WHEN THE PLANTING HOLE HAS BEEN BACKFILLED, POUR WATER AROUND THE ROOT BALL TO SETTLE THE SOIL.
   - PLACE 50-100mm OF SHREDDED BARK MULCH AROUND TREE BASE, OVER ROOT BALL, PLANTING HOLE AND SOIL SAUCER. DO NOT PILE MULCH AGAINST TREE STEM.
   - DO NOT DAMAGE OR CUT CENTRAL LEADER OF TREE. REMOVE ANY CRACKED OR BROKEN BRANCHES USING SHARP HAND TOOLS AND REMOVE ALL RIBBONS/TAGS.
   - TREES TO BE SUPPORTED VIA A 1800mm METAL STAKE INSTALLED AT EDGE OF ROOT BALL. STAKES TO BE INSERTED A MIN. 600mm INTO THE GROUND FACING THE PREVAILING WIND. TREES TO BE ATTACHED WITH 12 GAUGE GALVANIZED WIRE OR APPROVED EQUAL TREE TIE. WIRE TO BE ENCASED IN RUBBER HOSE WHERE WIRE MAY CONTACT THE TREE.



PINNACLE ENGINEERING

NOTES:

1. WITHIN LIMITS OF WORK, CONTRACTOR TO ADJUST ALL EX INFRASTRUCTURE (I.E. MANHOLES, CATCHBASINS, VALVES, HYDRANTS, ETC) TO NEW FINISHED GRADE. CONTRACTOR TO REPLACE WITH MANHOLE FRAME & COVERS WITH NEW SELF-LEVELING FRAME & COVER IN ACCORDANCE WITH CITY OF ST. JOHN'S SPECIFICATIONS BOOK.

LEGEND:

- LIMITS OF WORK / REINSTATEMENT
- EXISTING GROUND SPOT ELEVATIONS
- PROPERTY BOUNDARY
- EXISTING FENCELINE
- EXISTING DITCH
- EXISTING UTILITY POLE
- EXISTING OH WIRES
- EXISTING WATERMAIN
- EXISTING WATER SERVICE
- EXISTING HYDRANT & MARKER POLE
- EXISTING LINE VALVE
- EXISTING CURB STOP
- EXISTING SANITARY SEWER
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- EXISTING SANITARY MANHOLE
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- NEW UTILITY POLE (BY NL POWER)
- NEW OH WIRES (BY NL POWER)
- RELOCATED HYDRANT
- NEW STORM SEWER
- NEW STORM MANHOLE
- NEW STORM CATCHBASIN
- NEW STORM DITCH INLET
- LIMITS OF TRANSITIONAL SLOPING

NO.	REVISIONS	DD/MM/YY
0	ISSUED FOR TENDER	26/06/24

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER — PROVINCE OF NEWFOUNDLAND — pegnl — TREVOR G. MOORE — SIGNATURE — 26 June 2024 — DATE

PROVINCE OF NEWFOUNDLAND
PERMIT HOLDER
CLASS "A"
This Permit Allows
PINNACLE ENGINEERING ULC
MIRC:
To practice Professional Engineering in Newfoundland and Labrador. Permit No. as issued by PEGNL L0331 which is valid for the year 2024.

CLIENT

ST. JOHN'S
DEPARTMENT OF PLANNING, ENGINEERING AND REGULATORY SERVICES

PROJECT TITLE

MAJOR'S PATH UPGRADING
TENDER # 2024125

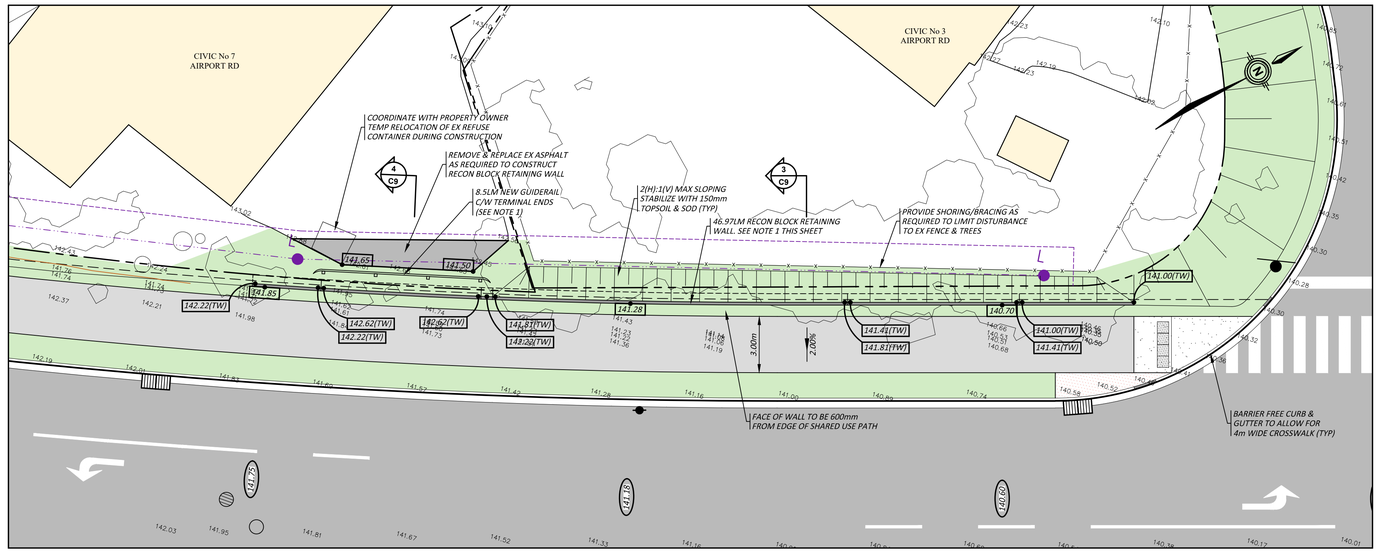
SHEET TITLE

GRADING EXCERPTS:
CIVIC 197 & 229 DRIVEWAYS

PROJECT NO.

23040

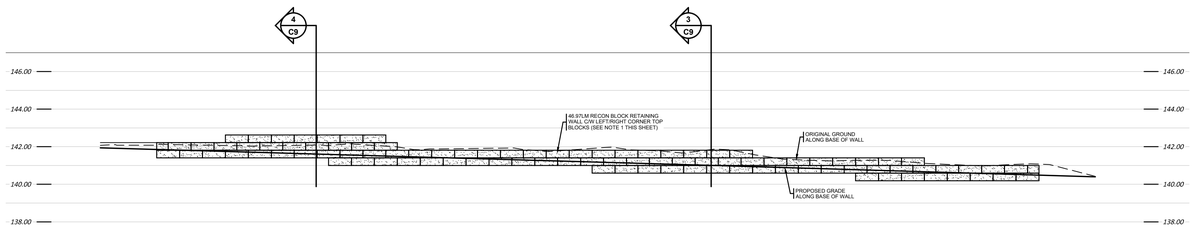
DRAWN BY	CHECKED BY
MEWC	TGM
DATE	DRAWING NO.
JUNE 2024	C08
SCALE	
1 : 250	



PLAN - RECON BLOCK RETAINING WALL

SCALE: 1 : 150

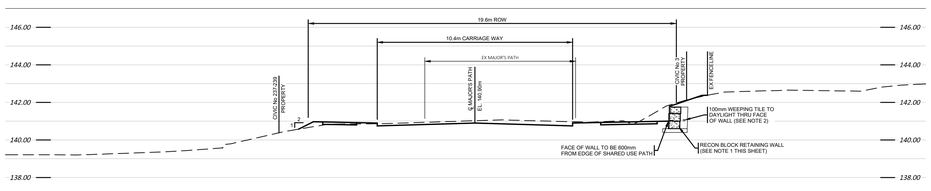
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ELEVATION VIEW - RECON BLOCK RETAINING WALL

SCALE: 1 : 150

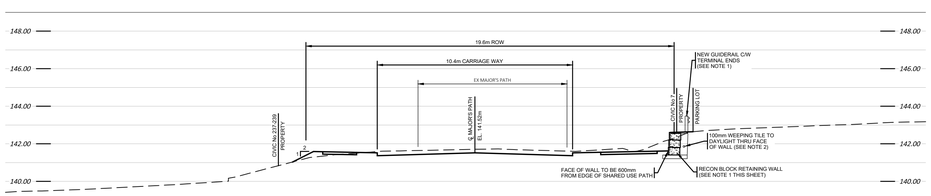
2 / C09



SECTION A-A - RECON BLOCK RETAINING WALL

SCALE: 1 : 150

3 / C09



SECTION B-B - RECON BLOCK RETAINING WALL

SCALE: 1 : 150

4 / C09

PINNACLE ENGINEERING

NOTES:

1. RECON BLOCK RETAINING WALL & GUIDERAIL TO BE DESIGNED ACCORDING TO RECON WALL SYSTEMS SPECIFICATIONS. CONTRACTOR TO PROVIDE SHOP DRAWINGS SIGNED AND STAMPED BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN NEWFOUNDLAND & LABRADOR.
2. WALL DESIGNER TO DETERMINE LOCATION FOR DAYLIGHTING WEEPING TILE. DRAIN TO HAVE PERFORATED COVER AT FACE OF WALL.

LEGEND:

- LIMITS OF WORK / REINSTATEMENT
- EXISTING GROUND SPOT ELEVATIONS
- PROPERTY BOUNDARY
- EXISTING FENCELINE
- EXISTING DITCH
- EXISTING UTILITY POLE
- EXISTING OH WIRES
- EXISTING WATERMAIN
- EXISTING WATER SERVICE
- EXISTING HYDRANT & MARKER POLE
- EXISTING LINE VALVE
- EXISTING CURB STOP
- EXISTING SANITARY SEWER
- EXISTING SANITARY SERVICE
- EXISTING SANITARY MANHOLE
- EXISTING STORM SEWER
- EXISTING STORM SERVICE
- EXISTING STORM MANHOLE
- EXISTING CATCHBASIN
- EXISTING STORM CULVERT
- NEW UTILITY POLE (BY NL POWER)
- NEW OH WIRES (BY NL POWER)
- RELOCATED HYDRANT
- NEW STORM SEWER
- NEW STORM MANHOLE
- NEW STORM CATCHBASIN
- NEW STORM DITCH INLET
- LIMITS OF TRANSITIONAL SLOPING

NO.	REVISIONS	DD/MM/YY
0	ISSUED FOR TENDER	26/06/24

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER
PROVINCE OF NEWFOUNDLAND
pegnl
PROFESSIONAL ENGINEERS AND GEOSCIENTISTS NEWFOUNDLAND & LABRADOR
TREVOR G. MOORE
SIGNATURE
26 JUNE 2024
DATE

PROVINCE OF NEWFOUNDLAND
PERMIT HOLDER
CLASS "A"
pegnl
This Permit Allows
PINNACLE ENGINEERING ULC
MIRC
To practice Professional Engineering
in Newfoundland and Labrador.
Permit No. as issued by PEGNL L0331
which is valid for the year 2024.

CLIENT

ST. JOHN'S
DEPARTMENT OF PLANNING, ENGINEERING AND REGULATORY SERVICES

PROJECT TITLE

MAJOR'S PATH UPGRADING
TENDER # 2024125

SHEET TITLE

RECON BLOCK WALL - PLAN & SECTIONS

PROJECT NO.

23040

DRAWN BY	CHECKED BY
MEWC	TGM
DATE	DRAWING NO.
JUNE 2024	C09
SCALE	
1 : 250	

ST. JOHN'S
AIRPORT AUTHORITY
(REFER TO DWG C4 FOR CONSTRUCTION HEIGHT RESTRICTIONS ALONG AIRPORT PROPERTY BOUNDARIES)

HEBRON WAY

LIMITS OF WORK THIS CONTRACT

MAJOR'S PATH

40:1 TAPER

40:1 TAPER

RELOCATE EX METROBUS SIGN TO LANDSCAPED BLVD AND PROVIDE 9.0m WIDE CONCRETE PAD IN LANDSCAPED BLVD

EX METROBUS SIGN ON UTILITY POLE TO REMAIN

NEW DRIVEWAY OFF 1.8m SIDEWALK C/W 0.6m BLVD. SEE DETAIL 5 DWG D1 (TYP)

SOLID YELLOW HATCHING 0.6m WIDE @ 6.0m o.c.

EX CATV TRAIL

EX SIGN

EX SIGN

EX SIGN

146

139

123

111

113

103

87

77

0+300

0+350

0+250

0+200

0+150

0+100

0+050

0+000

MAJOR'S PATH
STA. 0+000 TO 0+350

190

178

164

156

154

146

204

EX STORM DETENTION POND

COORDINATE NEW LOCATION FOR WOOD PLANTER & PYLON SIGN WITH PROPERTY OWNER

NEW DRIVEWAY OFF 3.0m SHARED USE PATH. SEE DETAIL 3 DWG D1 (TYP)

MAJOR'S PATH

NEW DRIVEWAY OFF 1.8m SIDEWALK C/W 0.6m BLVD. SEE DETAIL 5 DWG D1 (TYP)

SOLID YELLOW HATCHING 0.6m WIDE @ 6.0m o.c.

EX SIGN

EX SIGN

EX SIGN

EX SIGN

EX SIGN

EX SIGN

197

191

189

179

163

139

0+700

0+650

0+600

0+550

0+500

0+450

0+400

0+350

MAJOR'S PATH
STA. 0+350 TO 0+700

PINNACLE ENGINEERING

NOTES:

1. CONTRACTOR TO CHANNEL CUT / SAW CUT EXISTING ASPHALT / CONCRETE FOR SMOOTH TRANSITION.
2. FOR MAJOR'S PATH / INTERNATIONAL PLACE / AIRPORT ROAD CONSTRUCTION, SEE DETAILS 1-2 DWG D01.
3. COMMERCIAL PARKING LOT & ASPHALT DRIVEWAY REINSTATEMENT TO CONSIST OF 40mm THK LAYER OF SURFACE COURSE ASPHALT, 40mm THK LAYER OF BASE COURSE ASPHALT, 100mm THK LAYER OF CLASS 'A' GRANULARS, & 200mm THK LAYER OF CLASS 'B' GRANULARS.
4. COMMERCIAL DRIVEWAY CURB & GUTTER AS PER DETAIL 10-330-002 OF CITY OF ST. JOHN'S SPECIFICATIONS BOOK. COMMERCIAL DRIVEWAY SIDEWALK TO BE 200mm THK AS PER DETAIL 10-330-07 OF THE CITY OF ST. JOHN'S SPECIFICATIOS BOOK AND C/W 152x152 18.7/18.7 WWM REINFORCING.
5. RESIDENTIAL DRIVEWAY ASPHALT REINSTATEMENT TO CONSIST OF 50mm THK LAYER OF SURFACE COURSE ASPHALT & 100mm THK LAYER OF CLASS 'A' GRANULARS.
6. GRAVEL DRIVEWAY REINSTATEMENT TO CONSIST OF 100mm THK LAYER OF CLASS 'A' GRANULARS COMPACTED.
7. ALL PAVEMENT MARKINGS TO BE IN ACCORDANCE WITH TECHNICAL REQUIREMENTS OF THE CONTRACT DOCUMENTS.
8. EXACT LOCATION OF NEW TRAFFIC SIGNAGE TO BE REVIEWED WITH ENGINEER IN FIELD PRIOR TO PLACEMENT.
9. WITHIN LIMITS OF WORK, CONTRACTOR TO ADJUST ALL EX INFRASTRUCTURE (I.E. MANHOLES, CATCHBASINS, VALVES, HYDRANTS, ETC) TO NEW FINISHED GRADE. CONTRACTOR TO REPLACE WITH MANHOLE FRAME & COVERS WITH NEW SELF-LEVELING FRAME & COVER IN ACCORDANCE WITH CITY OF ST. JOHN'S SPECIFICATIONS BOOK.
10. CONTRACTOR TO PROVIDE TEMPORARY LINE PAINTING AFTER BASE COURSE ASPHALT PLACEMENT IN 2024 UNTIL SURFACE COURSE ASPHALT IS PLACED IN 2025.

LEGEND:

- LIMITS OF WORK / REINSTATEMENT
- EXISTING UTILITY POLE
- EXISTING HYDRANT & MARKER POLE
- EXISTING SANITARY MANHOLE
- EXISTING STORM MANHOLE
- EXISTING SINGLE CATCHBASIN
- NEW STORM MANHOLE
- NEW CATCHBASIN
- NEW CONC CURB / CURB & GUTTER
- LIMITS OF ASPHALT REINSTATEMENT (SEE NOTES 2-3 THIS SHEET)
- NEW ASPHALT SHARED USE PATH (SEE DETAIL 2 DWG D10)
- LIMITS OF CONCRETE REINSTATEMENT (AS PER CITY OF ST. JOHN'S SPECIFICATIONS BOOK)
- LIMITS OF RED COLORED CONCRETE (AS PER CITY OF ST. JOHN'S SPECIFICATIONS BOOK)
- LIMITS OF LANDSCAPING REINSTATEMENT. STABILIZE WITH 150mm TOPSOIL & SOD

NO.	REVISIONS	DD/MM/YY
0	ISSUED FOR TENDER	26/06/24

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER
pegnl
PROFESSIONAL ENGINEERS AND GEOSCIENTISTS NEWFOUNDLAND & LABRADOR
TREVOR G. MOORE
SIGNATURE
26 JUNE 2024
DATE
PROVINCE OF NEWFOUNDLAND

PROVINCE OF NEWFOUNDLAND
pegnl PROFESSIONAL ENGINEERS AND GEOSCIENTISTS NEWFOUNDLAND & LABRADOR
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CLIENT

ST. JOHN'S
DEPARTMENT OF PLANNING, ENGINEERING AND REGULATORY SERVICES

PROJECT TITLE

MAJOR'S PATH UPGRADING
TENDER # 2024125

SHEET TITLE

SURFACE IMPROVEMENTS PLAN - 01

PROJECT NO.

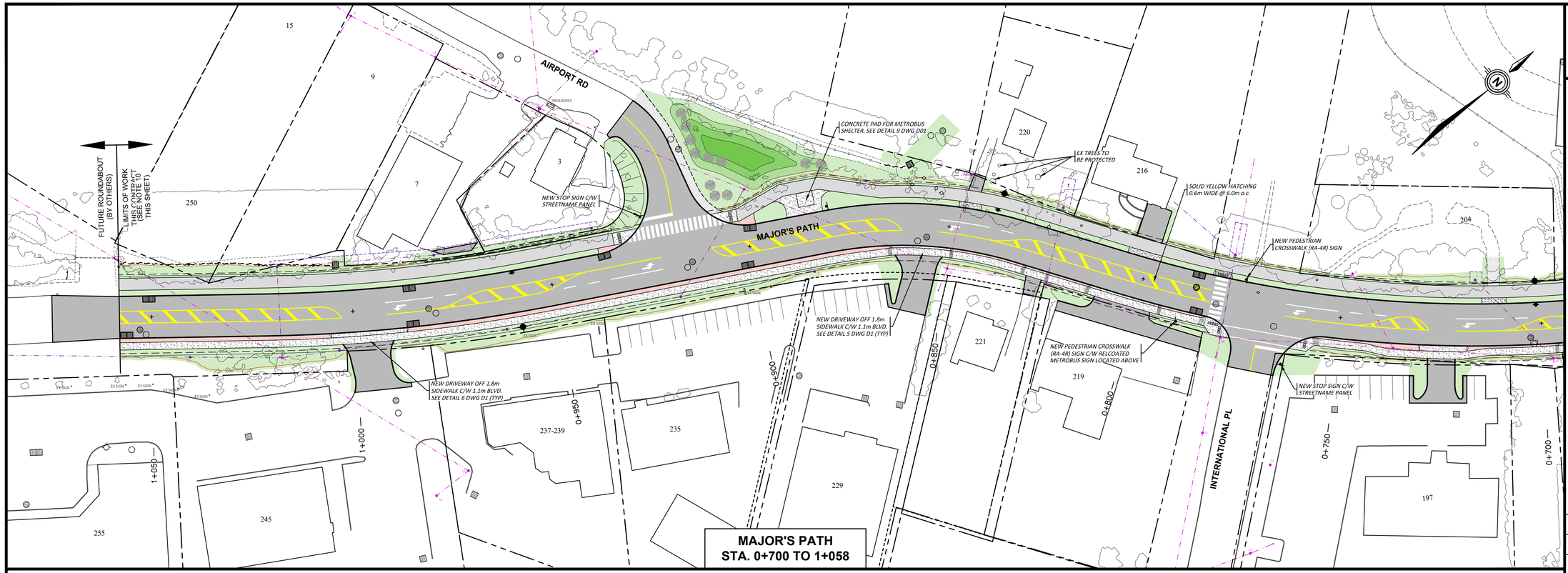
23040

DRAWN BY	CHECKED BY
MEWC	TGM

DATE
JUNE 2024

SCALE
1 : 500

DRAWING NO.
C10



MAJOR'S PATH
STA. 0+700 TO 1+058

PINNACLE ENGINEERING

NOTES:

1. CONTRACTOR TO CHANNEL CUT / SAW CUT EXISTING ASPHALT / CONCRETE FOR SMOOTH TRANSITION.
2. FOR MAJOR'S PATH / INTERNATIONAL PLACE / AIRPORT ROAD CONSTRUCTION, SEE DETAILS 1-2 DWG D01.
3. COMMERCIAL PARKING LOT & ASPHALT DRIVEWAY REINSTATEMENT TO CONSIST OF 40mm THK LAYER OF SURFACE COURSE ASPHALT, 40mm THK LAYER OF BASE COURSE ASPHALT, 100mm THK LAYER OF CLASS 'A' GRANULARS, & 200mm THK LAYER OF CLASS 'B' GRANULARS.
4. COMMERCIAL DRIVEWAY CURB & GUTTER AS PER DETAIL 10-330-002 OF CITY OF ST. JOHN'S SPECIFICATIONS BOOK. COMMERCIAL DRIVEWAY SIDEWALK TO BE 200mm THK AS PER DETAIL 10-330-07 OF THE CITY OF ST. JOHN'S SPECIFICATIOS BOOK AND C/W 152x152 18.7/18.7 WWM REINFORCING.
5. RESIDENTIAL DRIVEWAY ASPHALT REINSTATEMENT TO CONSIST OF 50mm THK LAYER OF SURFACE COURSE ASPHALT & 100mm THK LAYER OF CLASS 'A' GRANULARS.
6. GRAVEL DRIVEWAY REINSTATEMENT TO CONSIST OF 100mm THK LAYER OF CLASS 'A' GRANULARS COMPACTED.
7. ALL PAVEMENT MARKINGS TO BE IN ACCORDANCE WITH TECHNICAL REQUIREMENTS OF THE CONTRACT DOCUMENTS.
8. EXACT LOCATION OF NEW TRAFFIC SIGNAGE TO BE REVIEWED WITH ENGINEER IN FIELD PRIOR TO PLACEMENT.
9. WITHIN LIMITS OF WORK, CONTRACTOR TO ADJUST ALL EX INFRASTRUCTURE (I.E. MANHOLES, CATCHBASINS, VALVES, HYDRANTS, ETC) TO NEW FINISHED GRADE. CONTRACTOR TO REPLACE WITH MANHOLE FRAME & COVERS WITH NEW SELF-LEVELING FRAME & COVER IN ACCORDANCE WITH CITY OF ST. JOHN'S SPECIFICATIONS BOOK.
10. CONTRACTOR SHALL COORDINATE CONSTRUCTION SEQUENCE / SCHEDULE WITH ROUNDABOUT CONTRACTOR TO MINIMIZE IMPACT TO VEHICULAR AND PEDESTRIAN TRAFFIC.
10. CONTRACTOR TO PROVIDE TEMPORARY LINE PAINTING AFTER BASE COURSE ASPHALT PLACEMENT IN 2024 UNTIL SURFACE COURSE ASPHALT IS PLACED IN 2025.

LEGEND:

- LIMITS OF WORK / REINSTATEMENT
- EXISTING UTILITY POLE
- EXISTING HYDRANT & MARKER POLE
- EXISTING SANITARY MANHOLE
- EXISTING STORM MANHOLE
- EXISTING SINGLE CATCHBASIN
- NEW STORM MANHOLE
- NEW CATCHBASIN
- NEW CONC CURB / CURB & GUTTER
- LIMITS OF ASPHALT REINSTATEMENT (SEE NOTES 2-3 THIS SHEET)
- NEW ASPHALT SHARED USE PATH (SEE DETAIL 2 DWG D10)
- LIMITS OF CONCRETE REINSTATEMENT (AS PER CITY OF ST. JOHN'S SPECIFICATIONS BOOK)
- LIMITS OF RED COLORED CONCRETE (AS PER CITY OF ST. JOHN'S SPECIFICATIONS BOOK)
- LIMITS OF LANDSCAPING REINSTATEMENT STABILIZE WITH 150mm TOPSOIL & SOD

NO.	REVISIONS	DD/MM/YY
0	ISSUED FOR TENDER	26/06/24

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER — PROVINCE OF NEWFOUNDLAND
pegnl — PROFESSIONAL ENGINEERS AND GEOSCIENTISTS NEWFOUNDLAND & LABRADOR
TREVOR G. MOORE
SIGNATURE
26 JUNE 2024
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DEPARTMENT OF PLANNING, ENGINEERING AND REGULATORY SERVICES

PROJECT TITLE

MAJOR'S PATH UPGRADING
TENDER # 2024125

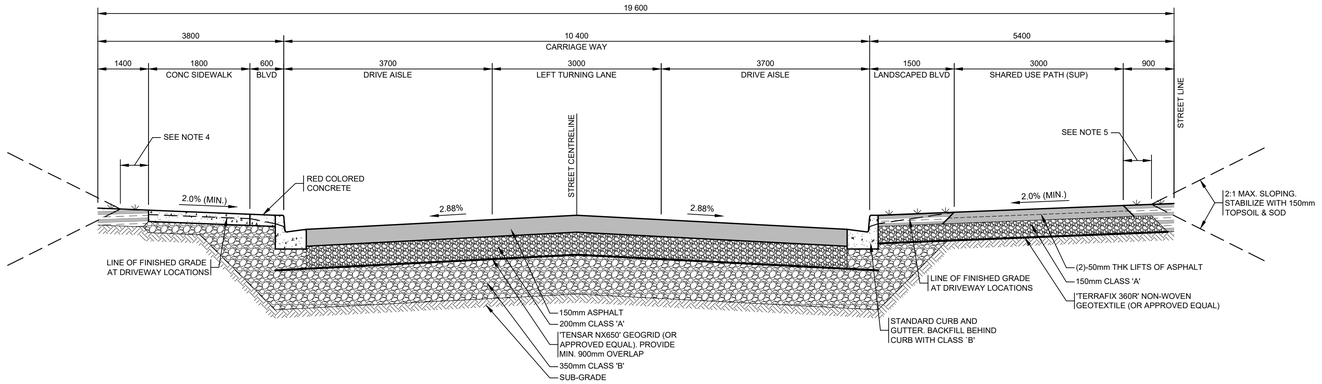
SHEET TITLE

SURFACE IMPROVEMENTS PLAN - 02

PROJECT NO.

23040

DRAWN BY	CHECKED BY
MEWC	TGM
DATE: JUNE 2024	DRAWING NO. C11
SCALE: 1 : 500	



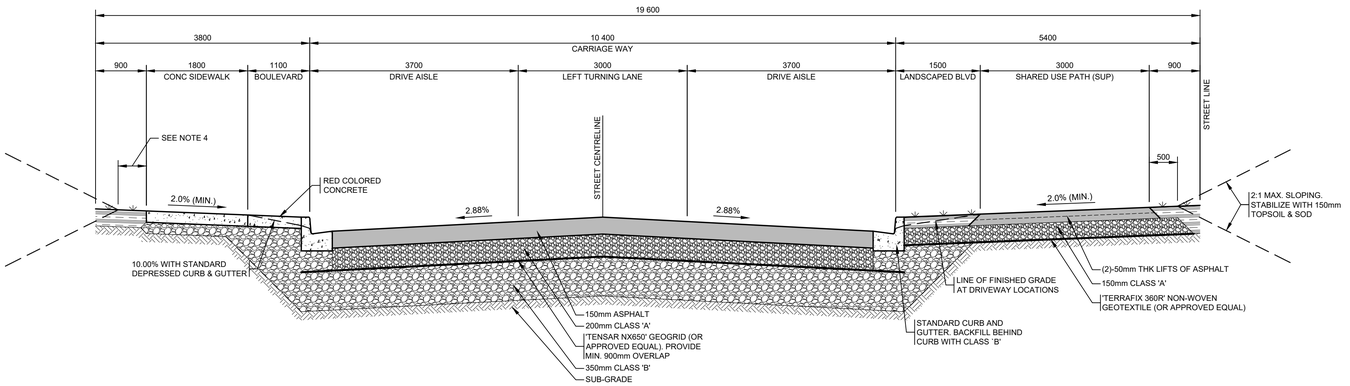
NOTES:

1. FINISHED ASPHALT ℄ OF STREET = TOP OF CURB MIN. CROSS-SLOPE 2.00%.
2. PAVEMENT STRUCTURE TO BE PLACED IN THE FOLLOWING LIFTS:
   - 50mm SURFACE COURSE
   - 50mm BASE COURSE
   - 50mm BASE COURSE
3. PRIOR TO PLACEMENT OF ASPHALT, CONTRACTOR TO SUBMIT FOR REVIEW AN ASPHALT MIX DESIGN IN ACCORDANCE WITH THE CITY OF ST. JOHN'S SPECIFICATIONS BOOK.
4. SHOULDER WIDTH FROM BACK OF SIDEWALK TO TOP OF SLOPE TO BE AS FOLLOWS:
   - 500mm WIDE FROM STA 0+117 TO 0+265
   - 1000mm WIDE FROM STA 0+275 TO 0+550
   - 500mm WIDE FROM STA 0+560 TO 0+875
5. SHOULDER WIDTH FROM BACK OF SHARED USE PATH TO TOP OF SLOPE TO BE AS FOLLOWS:
   - 500mm WIDE FROM STA 0+117 TO 0+612
   - 1500mm WIDE FROM STA 0+627 TO 0+690
   - 500mm WIDE FROM STA 0+690 TO 0+875
6. COLD JOINTS ARE REQUIRED ALONG THE SHARED USE PATH AT ALL RESIDENTIAL DRIVEWAY LOCATIONS.

TYPICAL ROAD CROSS-SECTION MAJOR'S PATH (STA. 0+117 TO STA. 0+875)

SCALE: 1:50(H) ; 1:25(V)

1 / D01



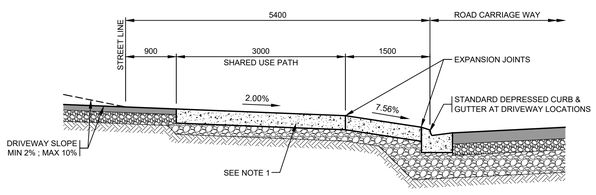
NOTES:

1. FINISHED ASPHALT ℄ OF STREET = TOP OF CURB MIN. CROSS-SLOPE 2.00%.
2. PAVEMENT STRUCTURE TO BE PLACED IN THE FOLLOWING LIFTS:
   - 50mm SURFACE COURSE
   - 50mm BASE COURSE
   - 50mm BASE COURSE
3. PRIOR TO PLACEMENT OF ASPHALT, CONTRACTOR TO SUBMIT FOR REVIEW AN ASPHALT MIX DESIGN IN ACCORDANCE WITH THE CITY OF ST. JOHN'S SPECIFICATIONS BOOK.
4. SHOULDER WIDTH FROM BACK OF SIDEWALK TO TOP OF SLOPE TO BE AS FOLLOWS:
   - 500mm WIDE FROM STA 0+875 TO 0+890
   - 1500mm WIDE FROM STA 0+900 TO 1+058
5. COLD JOINTS ARE REQUIRED ALONG THE SHARED USE PATH AT ALL RESIDENTIAL DRIVEWAY LOCATIONS.

TYPICAL ROAD CROSS-SECTION MAJOR'S PATH (STA. 0+875 TO STA. 1+058)

SCALE: 1:50(H) ; 1:25(V)

2 / D01



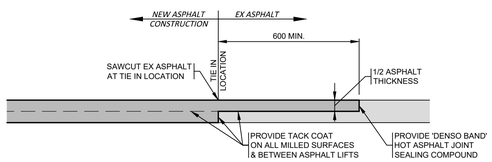
NOTES:

1. FOR COMMERCIAL DRIVEWAYS, TYPICAL CONCRETE CONSTRUCTION:
   - 200mm THK CONCRETE SLAB C/W COARSE BROOM FINISH
   - 152x152 18.7x18.7 WWM
   - 100mm COMPACTED CLASS 'B' SUBBASE

COMMERCIAL DRIVEWAY OFF 3.0m WIDE SHARED USE PATH

SCALE: 1:50(H) ; 1:25(V)

3 / D01



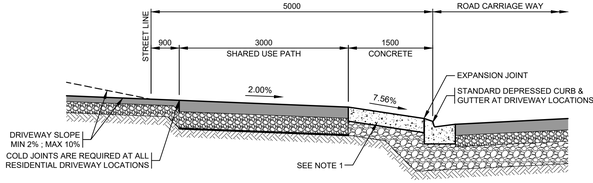
NOTES:

1. IF ASPHALT THICKNESS IS ≤50mm, ASPHALT CAN BE SAW CUT INSTEAD OF MILLED.

ASPHALT TIE-IN DETAIL

SCALE: N.T.S.

4 / D01



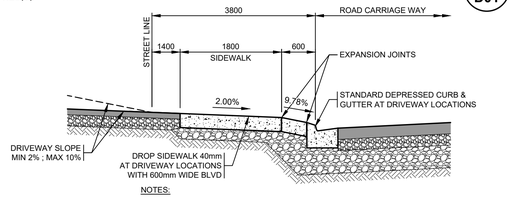
NOTES:

1. FOR RESIDENTIAL DRIVEWAYS, TYPICAL CONCRETE CONSTRUCTION:
   - 125mm THK CONCRETE SLAB C/W COARSE BROOM FINISH
   - 100mm COMPACTED CLASS 'B' SUBBASE

RESIDENTIAL DRIVEWAY OFF 3.0m WIDE SHARED USE PATH

SCALE: 1:50(H) ; 1:25(V)

5 / D01



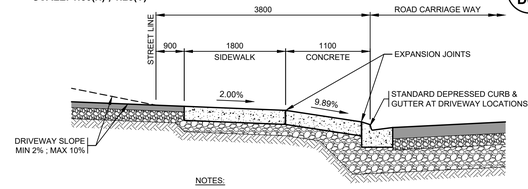
NOTES:

1. FOR RESIDENTIAL DRIVEWAYS, TYPICAL CONCRETE CONSTRUCTION:
   - 125mm THK CONCRETE SLAB C/W COARSE BROOM FINISH
   - 100mm COMPACTED CLASS 'B' SUBBASE
2. FOR COMMERCIAL DRIVEWAYS, TYPICAL CONCRETE CONSTRUCTION:
   - 200mm THK CONCRETE SLAB C/W COARSE BROOM FINISH
   - 152x152 18.7x18.7 WWM
   - 100mm COMPACTED CLASS 'B' SUBBASE

TYPICAL SECTION - DRIVEWAY OFF 1.8m WIDE SIDEWALK AND 0.6m BLVD

SCALE: 1:50(H) ; 1:25(V)

6 / D01



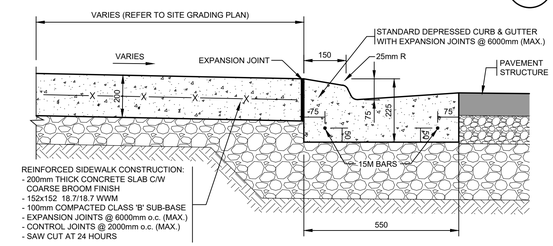
NOTES:

1. FOR RESIDENTIAL DRIVEWAYS, TYPICAL CONCRETE CONSTRUCTION:
   - 125mm THK CONCRETE SLAB C/W COARSE BROOM FINISH
   - 100mm COMPACTED CLASS 'B' SUBBASE
2. FOR COMMERCIAL DRIVEWAYS, TYPICAL CONCRETE CONSTRUCTION:
   - 200mm THK CONCRETE SLAB C/W COARSE BROOM FINISH
   - 152x152 18.7x18.7 WWM
   - 100mm COMPACTED CLASS 'B' SUBBASE

TYPICAL SECTION - DRIVEWAY OFF 1.8m WIDE SIDEWALK AND 1.1m BLVD

SCALE: 1:50(H) ; 1:25(V)

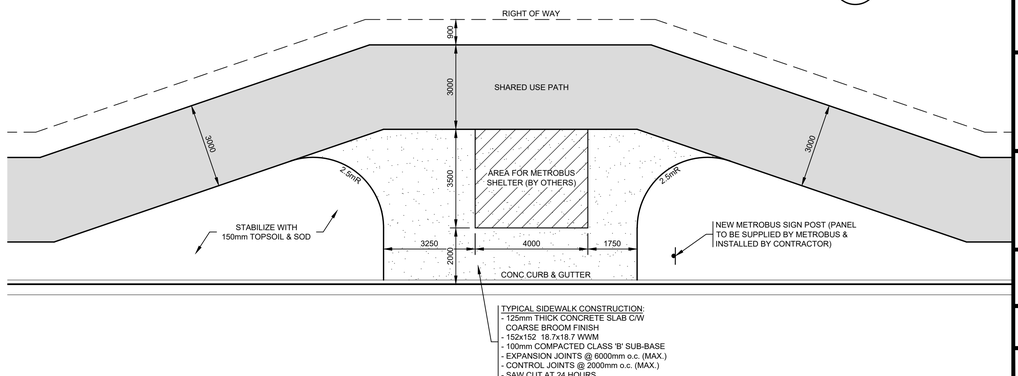
7 / D01



COMMERCIAL DRIVEWAY CURB & GUTTER AND SIDEWALK

SCALE: 1 : 10

8 / D01



CONCRETE PAD FOR METROBUS SHELTER

SCALE: 1 : 100

9 / D01

PINNACLE ENGINEERING

NO.	REVISIONS	DD/MM/YY
0	ISSUED FOR TENDER	26/06/24

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER — pegnl — PROFESSIONAL ENGINEERS AND GEOSCIENTISTS NEWFOUNDLAND & LABRADOR — PROVINCE OF NEWFOUNDLAND AND LABRADOR

TREVOR G. MOORE
SIGNATURE
26 JUNE 2024
DATE

PROVINCE OF NEWFOUNDLAND
pegnl PROFESSIONAL ENGINEERS AND GEOSCIENTISTS NEWFOUNDLAND & LABRADOR
PERMIT HOLDER
CLASS "A"
This Permit Allows
PINNACLE ENGINEERING ULC
MIRC:
To practice Professional Engineering in Newfoundland and Labrador. Permit No. as issued by PEGNL L0331 which is valid for the year 2024.

CLIENT

ST. JOHN'S
DEPARTMENT OF PLANNING, ENGINEERING AND REGULATORY SERVICES

PROJECT TITLE

MAJOR'S PATH UPGRADING
TENDER # 2024125

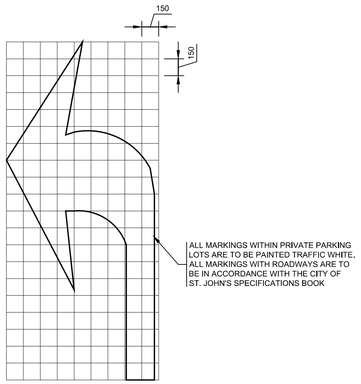
SHEET TITLE

CIVIL CONSTRUCTION DETAILS - 01

PROJECT NO.

23040

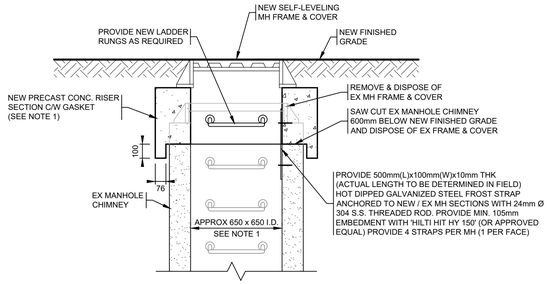
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MEWC	TGM
DATE	DRAWING NO.
JUNE 2024	D01
SCALE	
AS SHOWN	



TYPICAL TRAFFIC ARROWS DETAIL

SCALE: 1 : 25

1 / D02



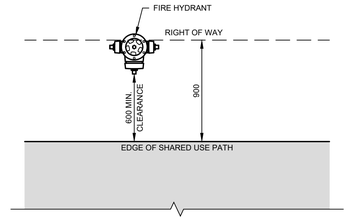
NOTES:

1. CONTRACTOR TO CONFIRM ALL MEASUREMENTS OF EX MANHOLES IN FIELD AND ADVISE PROJECT ENGINEER AND SHOP DWG DESIGNER PRIOR TO SUBMITTING SHOP DWGS OF PRECAST SECTIONS. SHOP DWGS SHALL BE SIGNED AND STAMPED BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN NEWFOUNDLAND & LABRADOR.

TYPICAL ADJUST EX MH TO NEW FINISHED GRADE DETAIL

SCALE: 1:20

3 / D02



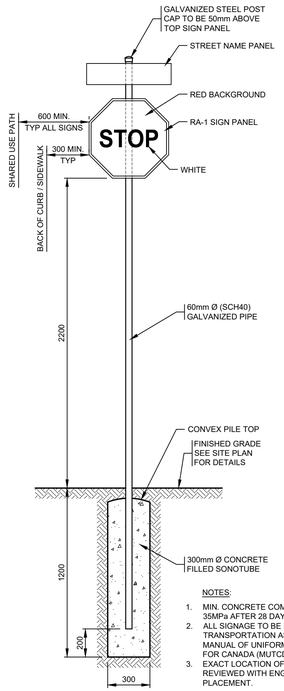
NOTES:

1. PROVIDE MIN. 300mm CLEARANCE FROM BACK OF CONC SIDEWALK.

NEW HYDRANT LOCATION BEHIND SHARED USE PATH

SCALE: 1:15

4 / D02



NEW TRAFFIC SIGN SCHEDULE		
SIGN NAME	IMAGE	SIZE
STOP SIGN (RA-1)	STOP	600x600
PEDESTRIAN CROSSWALK (RA-4R)		600x750
METROBUS STOP SIGN	METROBUS STOP	RE-USE EXISTING OR TO BE PROVIDED BY METROBUS

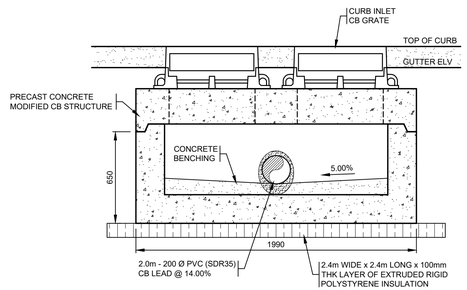
NOTES:

1. MIN. CONCRETE COMPRESSIVE STRENGTH TO BE 35MPa AFTER 28 DAYS.
2. ALL SIGNAGE TO BE IN ACCORDANCE WITH THE TRANSPORTATION ASSOCIATION OF CANADA (TAC) MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR CANADA (MUTCD).
3. EXACT LOCATION OF NEW TRAFFIC SIGNAGE TO BE REVIEWED WITH ENGINEER IN FIELD PRIOR TO PLACEMENT.

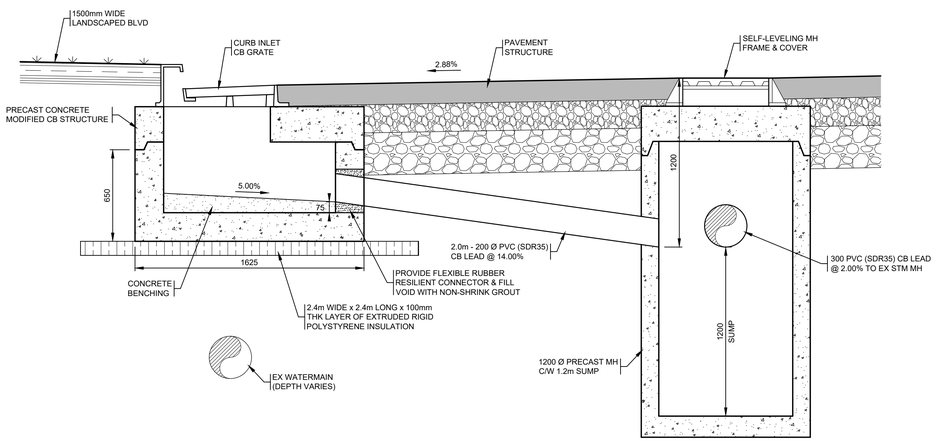
TYPICAL STOP SIGN (RA-1) DETAIL

SCALE: 1 : 20

2 / D02



SECTION A-A



SECTION B-B

PRECAST CONCRETE MODIFIED CATCHBASIN STRUCTURE

SCALE: 1:20

5 / D02

PINNACLE ENGINEERING

NOTES:

1.

NO.	REVISIONS	DD/MM/YY
0	ISSUED FOR TENDER	26/06/24

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER PROVINCE OF NEWFOUNDLAND
pegnl PROFESSIONAL ENGINEERS AND GEOSCIENTISTS NEWFOUNDLAND & LABRADOR
TREVOR G. MOORE
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PROVINCE OF NEWFOUNDLAND
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This Permit Allows
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To practice Professional Engineering in Newfoundland and Labrador.
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which is valid for the year 2024.

CLIENT

ST. JOHN'S
DEPARTMENT OF PLANNING, ENGINEERING AND REGULATORY SERVICES

PROJECT TITLE

MAJOR'S PATH UPGRADING
TENDER # 2024125

SHEET TITLE

CIVIL CONSTRUCTION DETAILS - 02

PROJECT NO.

23040

DRAWN BY	CHECKED BY
MEWC	TGM
DATE: JUNE 2024	DRAWING NO.: D02
SCALE: AS SHOWN	