

**ADDENDUM 1:**

**APPENDIX 'B'**

**PHASING & SIGNAGE PLAN**

# THE CITY OF WINNIPEG

## PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES DIVISION

### TENDER NO. 267-2023

### 2023 LOCAL STREET RENEWALS: MANAHAN AVENUE AND VARIOUS OTHER LOCATIONS

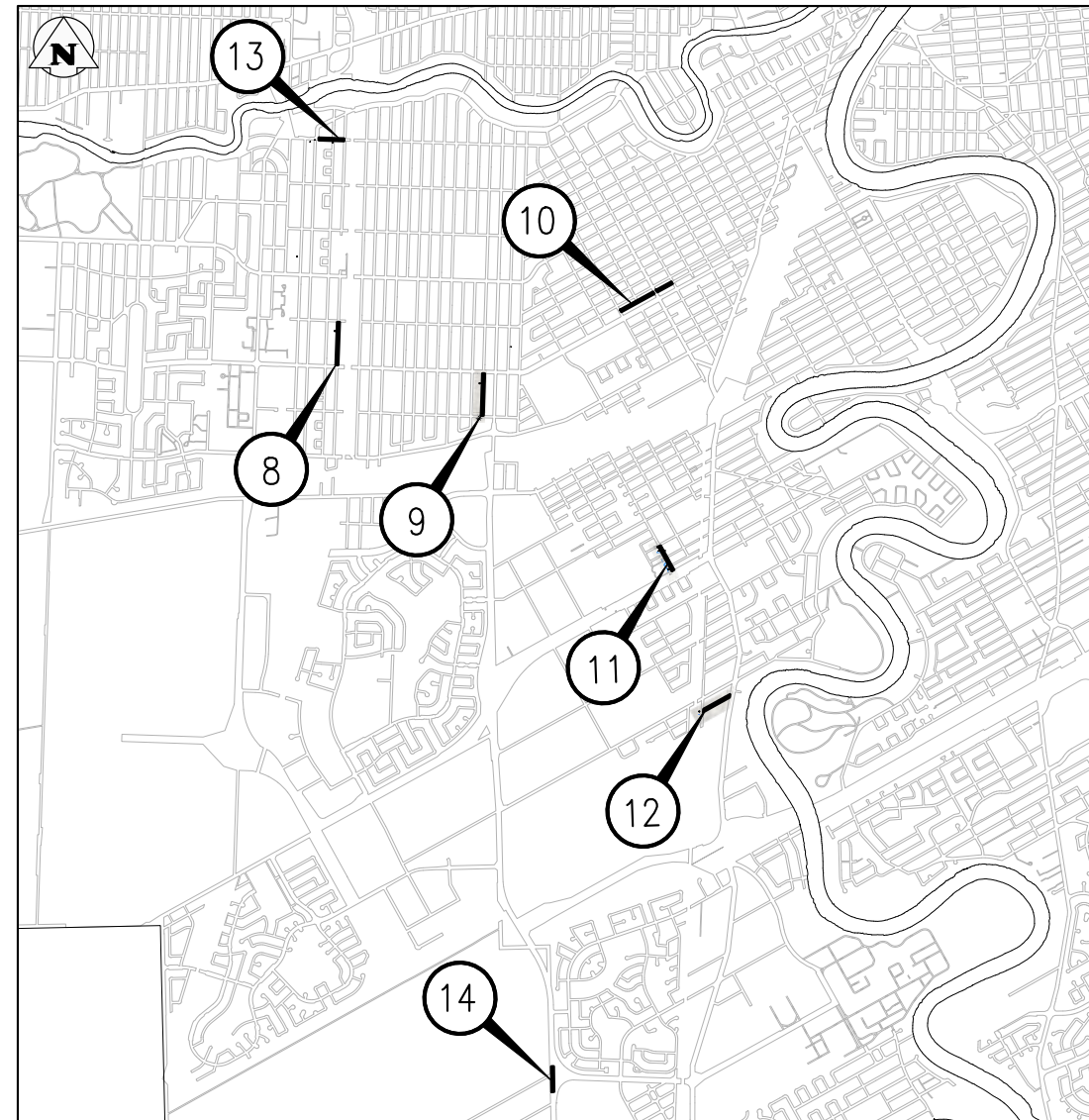
### PHASING & SIGNAGE PLAN

#### PHASING & SIGNAGE PLAN INDEX

CONSULTANT DRAWING #	SHEET #	SITE #	TITLE
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#### GENERAL NOTES:

- ALL TEMPORARY TRAFFIC CONTROL TO BE IN ACCORDANCE WITH THE LATEST MANUAL OF TEMPORARY TRAFFIC CONTROL ON CITY STREETS (MTTC) AT TENDER.
- PERFORM WORK IN PHASES & STAGES TO MINIMIZE IMPACT TO TRAFFIC FLOW AND ACCESS TO RESIDENCES.
- NOT ALL REQUIRED SIGNAGE IS SHOWN FOR EACH PHASE & SUB-PHASE. ADDITIONAL SIGNAGE TO PROVIDED IN ACCORDANCE WITH THE MTTC.
- THE PERMANENT POSTED SPEED LIMIT OF 50 KM/HR SHALL BE USED FOR ALL TAPER LENGTHS AND OTHER CRITERIA IN THE MTTC.
- CONTRACTOR SHALL SUBMIT THE PEDESTRIAN ACCESSIBILITY PLAN FOR REVIEW & ACCEPTANCE BY THE CONTRACT ADMINISTRATOR.
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- STAGE SIDEWALK WORK SUCH THAT PEDESTRIAN ACCESS IS MAINTAINED ALONG ONE SIDE OF EACH ROADWAY AT ALL TIMES.
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SITE LOCATION PLAN

- WARNING FLAGS
- REFLECTORIZED BARRICADE
- CHANNELIZATION BARREL
- TALL CONE
- PEDESTRIANS
- TEMPORARY TRAFFIC FLOW
- NORMAL TRAFFIC FLOW

PEDESTRIAN ACCOMMODATION:  
WHERE PEDESTRIANS CROSS THE WORK SITE A LOW BARRIER SHALL BE USED IN ACCORDANCE WITH THE MTTC.  
AN ACCEPTABLE ALTERNATE SOLUTION IS TO USE PYLONS IN CONJUNCTION WITH BARRIERS.

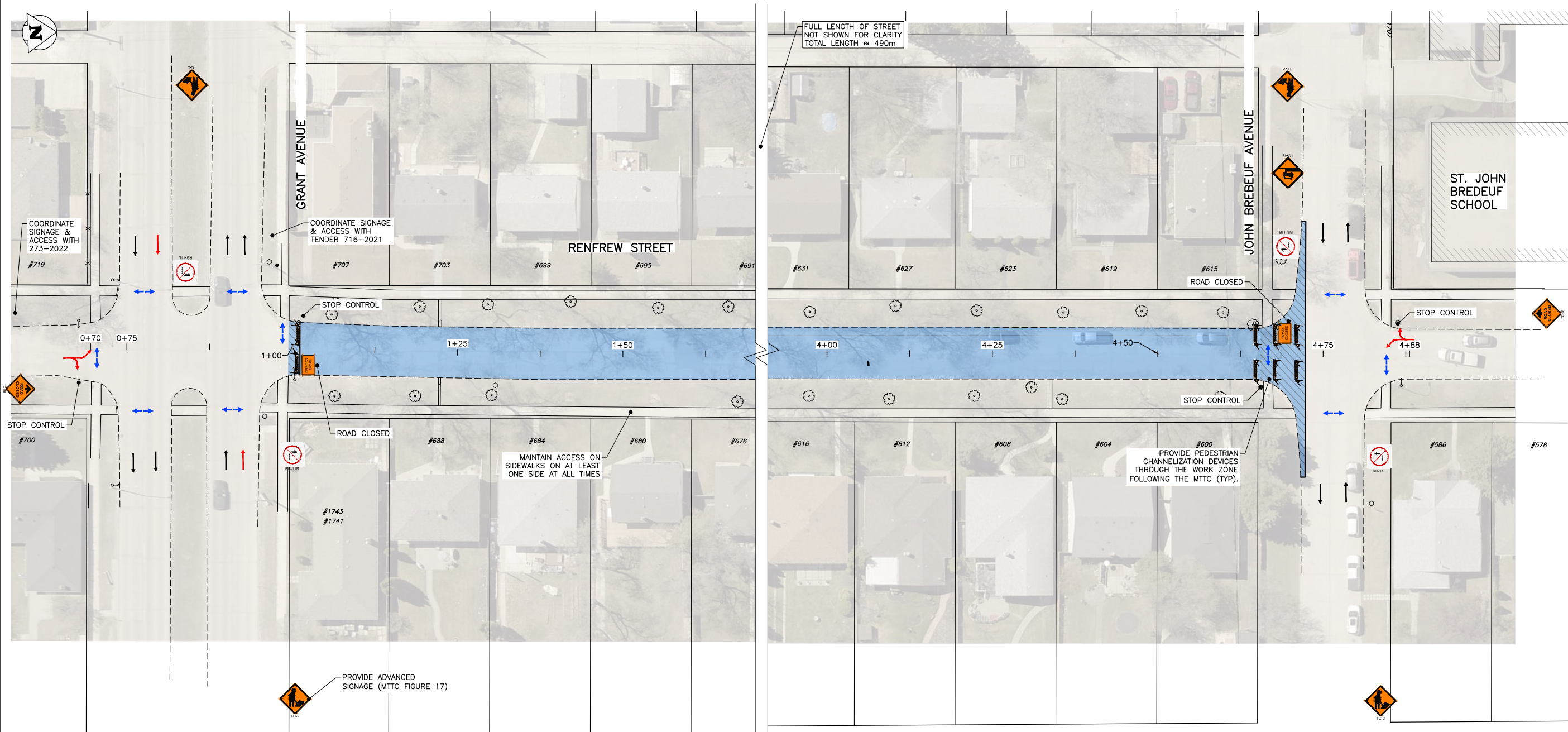
TENDER NO. 267-2023

THE CITY OF WINNIPEG PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION		
PROJECT TITLE 2023 LOCAL STREET RENEWALS: MANAHAN AVENUE & VARIOUS OTHER LOCATIONS		SHEET OF 1 15
PHASING & SIGNAGE PLAN: MAP & LEGEND		COMPUTER FILE NAME 22-0107-009
		FIGURE F-0000

NO.	REVISIONS	DATE	BY
C	ISSUED FOR TENDER	23/05/05	GES
B	ISSUED FOR REVIEW	23/05/03	GES
A	ISSUED FOR REVIEW	23/04/24	GES

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Files: \\s:\projects\2022\22-0107-009\Drawings\Signage\Plots\22-0107-009\_C2\_267-2023\_F-ALL\_Signage\_Figures - TabF-0801 Plotted By: GSmalley 23/05/05 [Fri 11:47am]  
 All (KGS) PLOT SCALE: 1:1



**STAGING & SIGNAGE: FULL CLOSURE**

SCALE: NTS



**GENERAL NOTES:**

1. ALL TEMPORARY TRAFFIC CONTROL TO BE IN ACCORDANCE WITH THE LATEST MANUAL OF TEMPORARY TRAFFIC CONTROL ON CITY STREETS (MTTC) AT TENDER.
2. PERFORM WORK IN PHASES & STAGES TO MINIMIZE IMPACT TO TRAFFIC FLOW AND ACCESS TO RESIDENCES.
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4. THE PERMANENT POSTED SPEED LIMIT OF 50 KM/HR SHALL BE USED FOR ALL TAPER LENGTHS AND OTHER CRITERIA IN THE MTTC.
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**TRAFFIC MANAGEMENT: RENFREW MINOR REHAB**

1. FULL CLOSURE PERMITTED FROM GRANT AVE TO JOHN BREBEUF AVE.
2. COORDINATE WITH TENDER 716-2023 FOR WORK ALONG GRANT AVE.
3. COORDINATE WITH TENDER 273-2022 FOR WORK SOUTH OF GRANT ON RENFREW.
4. COMPLETE WORKS ON NORTH LIMITS PRIOR TO SCHOOL STARTING.
5. COORDINATE PHASING, SIGNAGE, & ACCESS WITH TENDER 718-2021 & TENDER 273-2022.
6. SEE MTTC FIGURE 30.

**PROPERTY LIMITS DELINEATION**

DELINEATION OF PROPERTY LIMITS AS SHOWN ON THIS DWG DOES NOT REPRESENT A "LEGAL SURVEY". KGS GROUP MAKES NO REPRESENTATION OR WARRANTY AS TO THE ACCURACY OF PROPERTY LIMITS DELINEATED ON THIS DWG, NOR ON THE DIMENSIONAL ACCURACY OF DWG FEATURES RELATIVE TO THOSE PROPERTY LIMITS.

**METRIC**

WHOLE NUMBERS INDICATE MILLIMETRES  
DECIMALIZED NUMBERS INDICATE METRES

PROJECT TITLE		SHEET OF	
2023 LOCAL STREET RENEWALS: MANAHAN AVENUE & VARIOUS OTHER LOCATIONS		2 15	
COMPUTER FILE NAME		22-0107-009	
FIGURE		F-0801	
PHASING & SIGNAGE PLAN: RENFREW STREET: MAJOR REHABILITATION FULL CLOSURE			

NO.	REVISIONS	DATE	BY
C	ISSUED FOR TENDER	23/05/05	GES
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TENDER NO. 267-2023



**STAGING & SIGNAGE: FULL CLOSURE**

SCALE: NTS

- ↔ PEDESTRIANS
- TEMPORARY TRAFFIC FLOW

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**TRAFFIC MANAGEMENT: MONTROSE MAJOR REHAB**

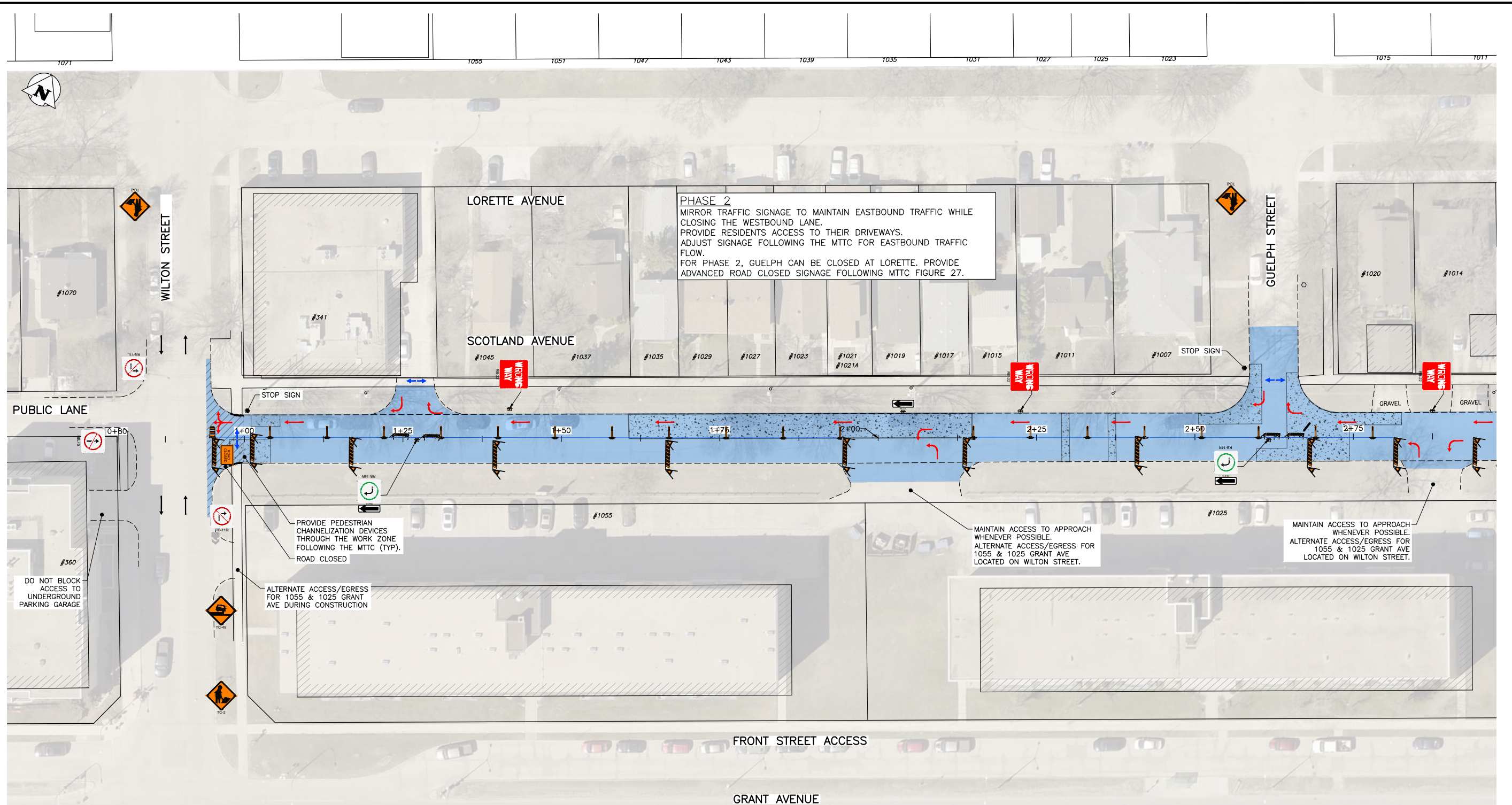
1. FULL CLOSURE PERMITTED FROM MATHERS AVE TO GRANT AVENUE.
2. PROVIDE ADVANCED SIGNAGE.
3. MAINTAIN AT LEAST ONE SIDEWALK OPEN AT ALL TIMES.
4. COORDINATE PHASING, SIGNAGE, & ACCESS WITH TENDER 716-2021.
5. SEE MTTC FIGURE 30.

TENDER NO. 267-2023

<b>THE CITY OF WINNIPEG</b> PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION	
PROJECT TITLE <b>2023 LOCAL STREET RENEWALS: MANAHAN AVENUE &amp; VARIOUS OTHER LOCATIONS</b>	
PHASING & SIGNAGE PLAN: <b>MONTROSE STREET: MAJOR REHABILITATION FULL CLOSURE</b>	
SHEET	OF
COMPUTER FILE NAME	3 15
FIGURE	22-0107-009
F-0901	

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C	ISSUED FOR TENDER	23/05/05	GES
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**STAGING & SIGNAGE: PHASE 1**

SCALE: NTS

- ↔ PEDESTRIANS
- TEMPORARY TRAFFIC FLOW

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**TRAFFIC MANAGEMENT: SCOTLAND MINOR REHAB**

1. PERFORM WORK LANE-AT-A-TIME IN TWO PHASES.
  - 1.1. PHASE 1: CLOSE EASTBOUND LANE FROM WILTON TO STAFFORD. PERFORM CONSTRUCTION WORKS ON ROADWAY & INSTALL NEW SIDEWALKS WHILE MAINTAINING WESTBOUND TRAFFIC FLOWS.
  - 1.2. PHASE 2: CLOSE WESTBOUND LANE FROM WILTON TO STAFFORD. PERFORM CONSTRUCTION WORKS ON ROADWAY WHILE MAINTAINING EASTBOUND TRAFFIC FLOWS.
2. MAINTAIN NATURAL TRAFFIC FLOW FOR EACH PHASE.
3. PROVIDE TEMPORARY ACCESS TO PARKING LOTS ON SOUTH SIDE OF SCOTLAND.
4. PROVIDE TEMPORARY ACCESS TO RESIDENTIAL DRIVEWAYS ON NORTH SIDE OF SCOTLAND.
5. SEE MTTC FIGURE 27.

TENDER NO. 267-2023

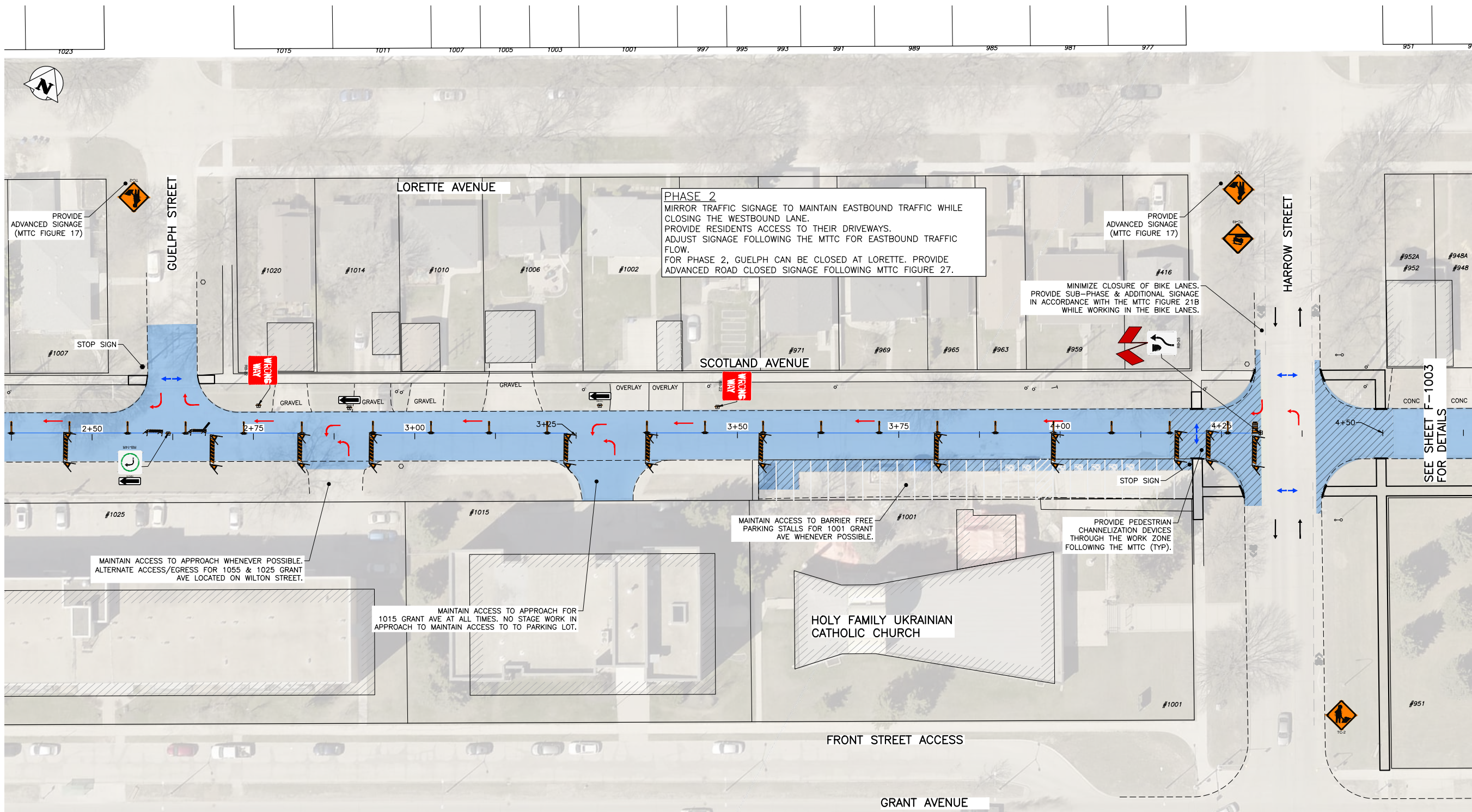
NO.	REVISIONS	DATE	BY
C	ISSUED FOR TENDER	23/05/05	GES
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**THE CITY OF WINNIPEG**  
PUBLIC WORKS DEPARTMENT  
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PROJECT TITLE  
**2023 LOCAL STREET RENEWALS: MANAHAN AVENUE & VARIOUS OTHER LOCATIONS**

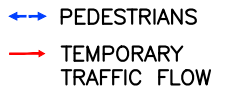
PHASING & SIGNAGE PLAN:  
SCOTLAND STREET: MINOR REHABILITATION  
SHEET 1

SHEET	OF
4	15
COMPUTER FILE NAME	
22-0107-009	
FIGURE	
F-1001	



**STAGING & SIGNAGE: PHASE 1**

SCALE: NTS



**GENERAL NOTES:**

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  - 1.1. PHASE 1: CLOSE EASTBOUND LANE FROM WILTON TO STAFFORD. PERFORM CONSTRUCTION WORKS ON ROADWAY & INSTALL NEW SIDEWALKS WHILE MAINTAINING WESTBOUND TRAFFIC FLOWS.
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3. PROVIDE TEMPORARY ACCESS TO PARKING LOTS ON SOUTH SIDE OF SCOTLAND.
4. PROVIDE TEMPORARY ACCESS TO RESIDENTIAL DRIVEWAYS ON NORTH SIDE OF SCOTLAND.
5. SEE MITC FIGURE 27.

TENDER NO. 267-2023

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ENGINEERING DIVISION

**KGS GROUP**

PROJECT TITLE  
2023 LOCAL STREET RENEWALS: MANAHAN AVENUE & VARIOUS OTHER LOCATIONS

PHASING & SIGNAGE PLAN:  
SCOTLAND AVENUE: MINOR REHABILITATION  
SHEET 2

SHEET OF 5 15  
COMPUTER FILE NAME 22-0107-009  
FIGURE F-1002

NO.	REVISIONS	DATE	BY
C	ISSUED FOR TENDER	23/05/05	GES
B	ISSUED FOR REVIEW	23/05/03	GES
A	ISSUED FOR REVIEW	23/04/24	GES

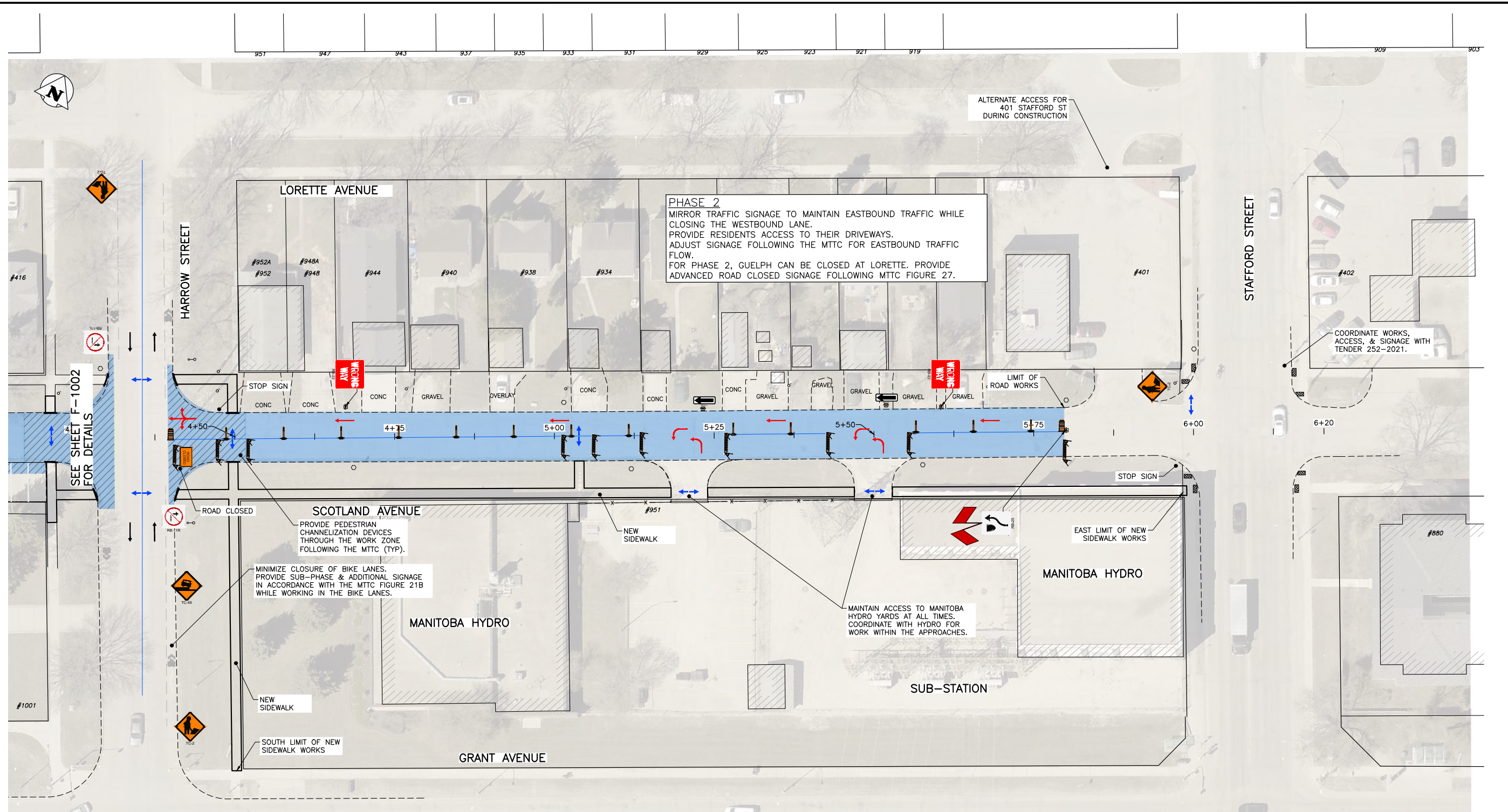
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 Plotted By: GSmalley 23/05/05 [Fri 11:50am]  
 Scale: 1:1000  
 Plot Date: 23/05/05

**PROPERTY LIMITS DELINEATION**

DELINEATION OF PROPERTY LIMITS AS SHOWN ON THIS DWG DOES NOT REPRESENT A "LEGAL SURVEY". KGS GROUP MAKES NO REPRESENTATION OR WARRANTY AS TO THE ACCURACY OF PROPERTY LIMITS DELINEATED ON THIS DWG, NOR ON THE DIMENSIONAL ACCURACY OF DWG FEATURES RELATIVE TO THOSE PROPERTY LIMITS.

**METRIC**

WHOLE NUMBERS INDICATE MILLIMETRES  
DECIMALIZED NUMBERS INDICATE METRES



**PHASE 2**  
 MIRROR TRAFFIC SIGNAGE TO MAINTAIN EASTBOUND TRAFFIC WHILE CLOSING THE WESTBOUND LANE.  
 PROVIDE RESIDENTS ACCESS TO THEIR DRIVEWAYS.  
 ADJUST SIGNAGE FOLLOWING THE MITC FOR EASTBOUND TRAFFIC FLOW.  
 FOR PHASE 2, GUELPH CAN BE CLOSED AT LORETTE. PROVIDE ADVANCED ROAD CLOSED SIGNAGE FOLLOWING MITC FIGURE 27.

PROVIDE PEDESTRIAN CHANNELIZATION DEVICES THROUGH THE WORK ZONE FOLLOWING THE MITC (TYP).  
 MINIMIZE CLOSURE OF BIKE LANES. PROVIDE SUB-PHASE & ADDITIONAL SIGNAGE IN ACCORDANCE WITH THE MITC FIGURE 21B WHILE WORKING IN THE BIKE LANES.

MAINTAIN ACCESS TO MANITOBA HYDRO YARDS AT ALL TIMES. COORDINATE WITH HYDRO FOR WORK WITHIN THE APPROACHES.

**STAGING & SIGNAGE: PHASE 1**  
 SCALE: NTS

← PEDESTRIANS  
 → TEMPORARY TRAFFIC FLOW

**GENERAL NOTES:**

- ALL TEMPORARY TRAFFIC CONTROL TO BE IN ACCORDANCE WITH THE LATEST MANUAL OF TEMPORARY TRAFFIC CONTROL ON CITY STREETS (MITC) AT TENDER.
- PERFORM WORK IN PHASES & STAGES TO MINIMIZE IMPACT TO TRAFFIC FLOW AND ACCESS TO RESIDENCES.
- NOT ALL REQUIRED SIGNAGE IS SHOWN FOR EACH PHASE & SUB-PHASE. ADDITIONAL SIGNAGE TO PROVIDED IN ACCORDANCE WITH THE MITC.
- THE PERMANENT POSTED SPEED LIMIT OF 50 KM/HR SHALL BE USED FOR ALL TAPER LENGTHS AND OTHER CRITERIA IN THE MITC.
- CONTRACTOR SHALL SUBMIT THE PEDESTRIAN ACCESSIBILITY PLAN FOR REVIEW & ACCEPTANCE BY THE CONTRACT ADMINISTRATOR.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS, THE SUPPLY, PLACEMENT & MAINTENANCE OF ALL TEMPORARY TRAFFIC CONTROL SIGNAGE IN ACCORDANCE WITH THE TENDER.
- ALL LANE CLOSURE REQUESTS MUST BE SUBMITTED THROUGH THE CONTRACT ADMINISTRATOR & ARE SUBJECT TO THE APPROVAL OF THE TRAFFIC MANAGEMENT BRANCH.
- CONTRACTOR TO PROVIDE FLAGPERSONS IN ACCORDANCE WITH THE MITC WHEN MOVING MATERIALS OR EQUIPMENT INTO OR OUT OF TRAFFIC.
- CONTRACTOR SHALL PROVIDE FLAGPERSONS DURING ALL ASPHALT PLACEMENT AT THE PROJECT LIMITS TO MINIMIZE IMPACT TO TRAFFIC.
- WHEN FLAGPERSONS ARE PRESENT, FLAGPERSON SIGNAGE MUST BE PLACED IN ACCORDANCE WITH THE MITC.

- WHEN FLAGPERSONS ARE NOT PRESENT, THE FLAGPERSON SIGNAGE MUST BE REMOVED OR HIDDEN.
- PROVIDE TEMPORARY RAMPS & CROSSING WHERE DIRECTED BY CONTRACT ADMINISTRATOR & IN ACCORDANCE WITH THE ACCESSIBILITY PLAN FOR PEDESTRIAN CROSSINGS WHILE PERFORMING WORK IN THE INTERSECTIONS AND APPROACHES.
- INSTALL WARNING FLAGS IN ACCORDANCE WITH MITC 3.07.04 ON THE FIRST WARNING SIGN IN EACH LANE DROP TAPER.
- WHERE A LANE IS REQUIRED TO BE CLOSED ON MAJOR INTERSECTING STREETS PERFORM THE WORK ON THE TIE-IN DURING OFF PEAK-HOURS.
- TEMPORARY TRANSIT LANDINGS WILL BE REQUIRED FOR ANY TEMPORARY TRANSIT STOP RELOCATIONS IN ACCORDANCE WITH THE MITC.
- CONTRACTOR TO MONITOR & MAINTAIN THE TEMPORARY SIGNAGE FOR THE DURATION OF THE PROJECT & MODIFY AS NEEDED FOR EACH STAGE OF THE WORKS.
- CONTRACTOR TO REMEDY ANY SIGNAGE DEEMED INSUFFICIENT OR INCORRECT AS DIRECTED BY THE CONTRACT ADMINISTRATOR OR TRAFFIC MANAGEMENT.
- STAGE SIDEWALK WORK SUCH THAT PEDESTRIAN ACCESS IS MAINTAINED ALONG ONE SIDE OF EACH ROADWAY AT ALL TIMES.
- PROVIDE ADVANCED CONSTRUCTION & SIDEWALK CLOSED/DETOUR SIGNAGE IN ACCORDANCE WITH THE MITC. PROVIDE SMALL CONES IN CENTRE WHERE BARRICADES .GUIDE PEDESTRIANS THROUGH THE CONSTRUCTION ZONE.

**TRAFFIC MANAGEMENT: SCOTLAND MINOR REHAB**

- PERFORM WORK LANE-AT-A-TIME IN TWO PHASES.
  - PHASE 1: CLOSE EASTBOUND LANE FROM WILTON TO STAFFORD. PERFORM CONSTRUCTION WORKS ON ROADWAY & INSTALL NEW SIDEWALKS WHILE MAINTAINING WESTBOUND TRAFFIC FLOWS.
  - PHASE 2: CLOSE WESTBOUND LANE FROM WILTON TO STAFFORD. PERFORM CONSTRUCTION WORKS ON ROADWAY WHILE MAINTAINING EASTBOUND TRAFFIC FLOWS.
- MAINTAIN NATURAL TRAFFIC FLOW FOR EACH PHASE.
- PROVIDE TEMPORARY ACCESS TO PARKING LOTS ON SOUTH SIDE OF SCOTLAND.
- PROVIDE TEMPORARY ACCESS TO RESIDENTIAL DRIVEWAYS ON NORTH SIDE OF SCOTLAND.
- SEE MITC FIGURE 27.

TENDER NO. 267-2023

**THE CITY OF WINNIPEG**  
 PUBLIC WORKS DEPARTMENT  
 ENGINEERING DIVISION

**KGS GROUP**

PROJECT TITLE		SHEET OF	
2023 LOCAL STREET RENEWALS: MANAHAN AVENUE & VARIOUS OTHER LOCATIONS		6 15	
PHASING & SIGNAGE PLAN: SCOTLAND AVENUE: MAJOR REHABILITATION SHEET 3		COMPUTER FILE NAME	
		22-0107-009	
		FIGURE	
		F-1003	

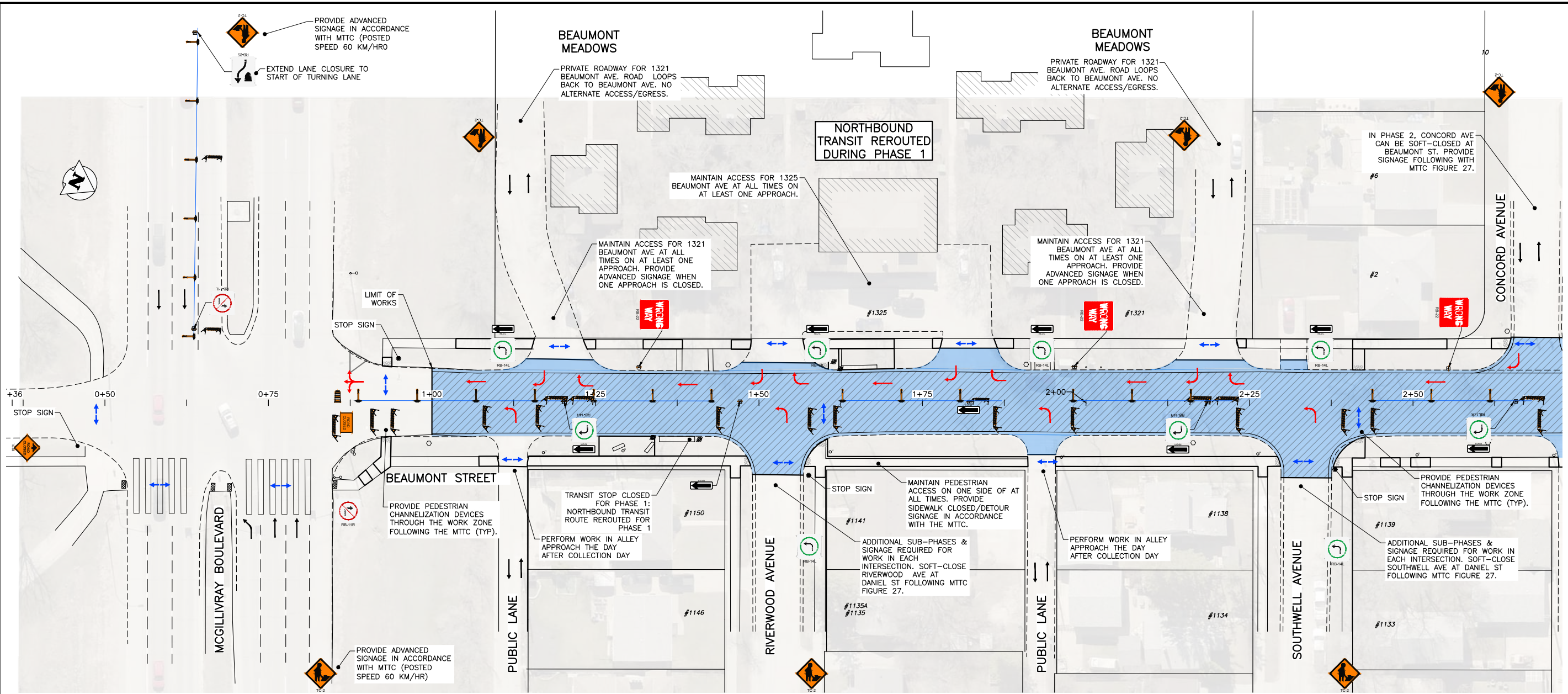
NO.	REVISIONS	DATE	BY
C	ISSUED FOR TENDER	23/05/05	GES
B	ISSUED FOR REVIEW	23/05/03	GES
A	ISSUED FOR REVIEW	23/04/24	GES

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Files: \\s:\projects\2022\22-0107-009\09\Signage Plans\22-0107-009\_C2\_267-2023\_F-ALL\_Signage Figures - TabF-1101 Plotted By: GSmalley 23/05/05 [Fr: 11:52am]



**STAGING & SIGNAGE: PHASE 1**  
SCALE: NTS

← PEDESTRIANS  
 → TEMPORARY TRAFFIC FLOW

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TRAFFIC CONTROL TO BE MIRRORED FOR PHASE 2 WITH THE FOLLOWING NOTES:

- MAINTAIN THE NATURAL NORTHBOUND TRAFFIC FLOW.
- ENSURE 'LEFT OUT' (NORTHBOUND) IS MAINTAINED ON AT LEAST ONE APPROACH FROM BEAUMONT MEADOWS AT ALL TIMES.
- SOUTHBOUND TRANSIT ROUTE WILL BE REROUTED IN PHASE 2.
- ENSURE SIGNAGE FOLLOWS THE MTTC.

**TRAFFIC MANAGEMENT: BEAUMONT AC REHABILITATION**

- PERFORM WORK LANE-AT-A-TIME IN STAGES.
- MAINTAIN NATURAL TRAFFIC FLOW FOR EACH PHASE.
- PROVIDE TEMPORARY ACCESS THROUGH CONSTRUCTION ZONE FOR EACH ALLEY & ROADWAY.
- PROVIDE SUB-PHASES FOR EACH INTERSECTION & ADDITIONAL SIGNAGE FOLLOWING THE MTTC.
- PROVIDE TEMPORARY ACCESS TO RESIDENTIAL DRIVEWAYS.
- ENSURE WORK DONE ON SIDEWALK CROSSING IS DONE BEFORE SCHOOL STARTS IN SEPTEMBER.
- SEE MTTC FIGURE 27.

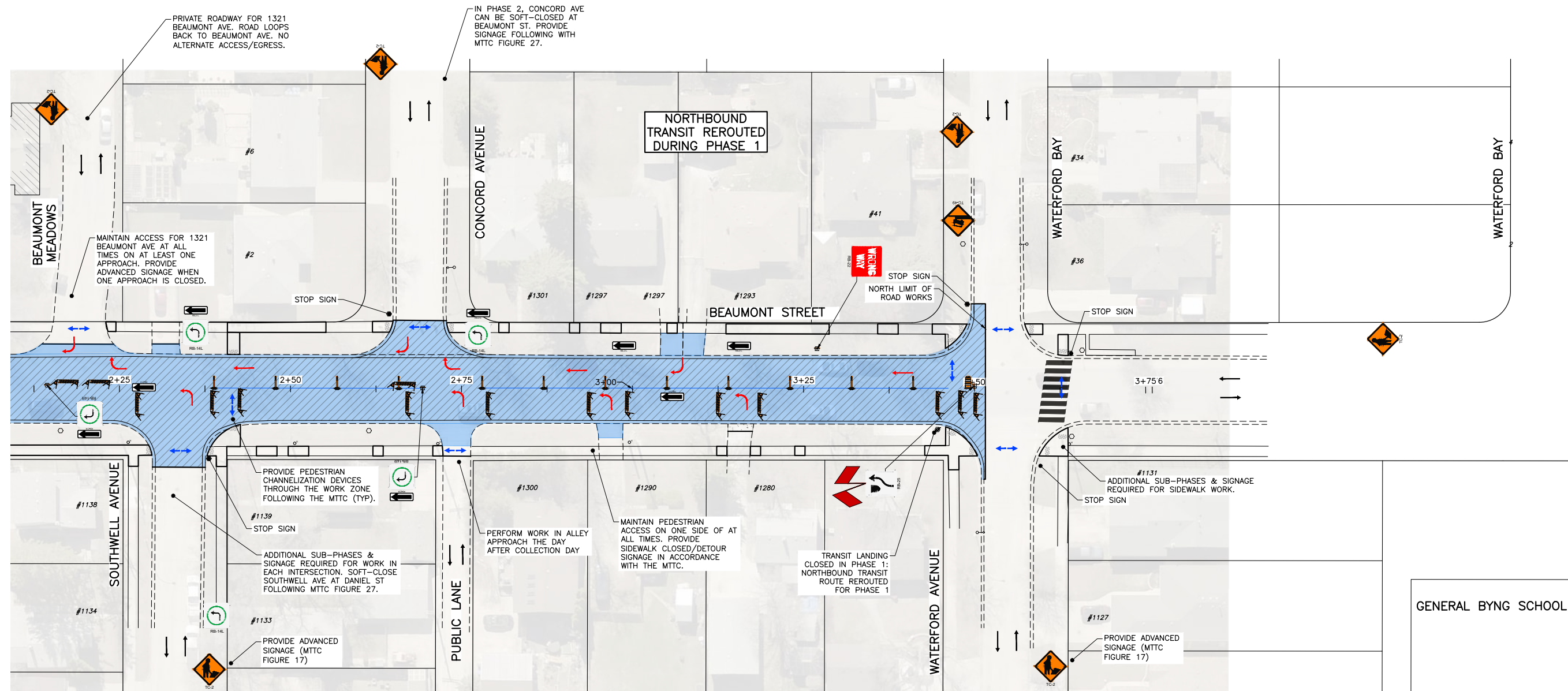
TENDER NO. 267-2023

		SHEET OF <b>7</b> OF <b>15</b>	
PROJECT TITLE <b>2023 LOCAL STREET RENEWALS: MANAHAN AVENUE &amp; VARIOUS OTHER LOCATIONS</b>		COMPUTER FILE NAME 22-0107-009	
PHASING & SIGNAGE PLAN: SCOTLAND AVENUE: MAJOR REHABILITATION PHASE 1		FIGURE F-1101	

NO.	REVISIONS	DATE	BY
C	ISSUED FOR TENDER	23/05/05	GES
B	ISSUED FOR REVIEW	23/05/03	GES
A	ISSUED FOR REVIEW	23/04/24	GES



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**STAGING & SIGNAGE: PHASE 1**  
SCALE: NTS

← PEDESTRIANS  
 → TEMPORARY TRAFFIC FLOW

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**TRAFFIC CONTROL TO BE MIRRORED FOR PHASE 2 WITH THE FOLLOWING NOTES:**

- MAINTAIN THE NATURAL NORTHBOUND TRAFFIC FLOW.
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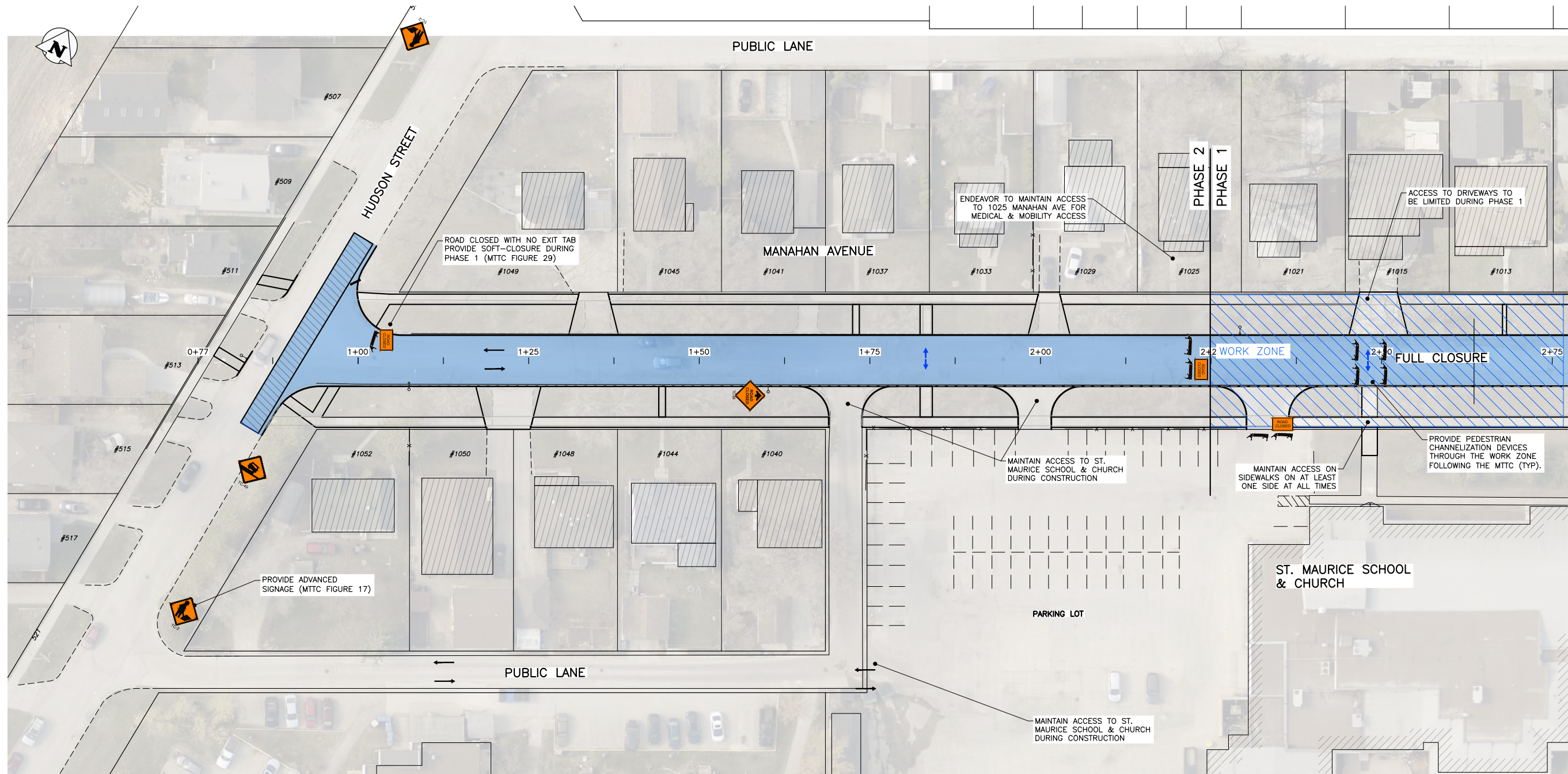
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- ENSURE WORK DONE ON SIDEWALK CROSSING IS DONE BEFORE SCHOOL STARTS IN SEPTEMBER.
- SEE MTTC FIGURE 27.

TENDER NO. 267-2023

		SHEET OF 8 15
PROJECT TITLE 2023 LOCAL STREET RENEWALS: MANAHAN AVENUE & VARIOUS OTHER LOCATIONS		COMPUTER FILE NAME 22-0107-009
PHASING & SIGNAGE PLAN: SCOTLAND AVENUE: MAJOR REHABILITATION PHASE 1		FIGURE F-1102

NO.	REVISIONS	DATE	BY
C	ISSUED FOR TENDER	23/05/05	GES
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**STAGING & SIGNAGE: PHASE 1**  
SCALE: NTS

PEDESTRIANS  
 TEMPORARY TRAFFIC FLOW

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ENSURE PHASE 1 IS COMPLETED PRIOR TO SCHOOL STARTING IN SEPTEMBER.

**TRAFFIC MANAGEMENT: MANAHAN AC RECONSTRUCTION**

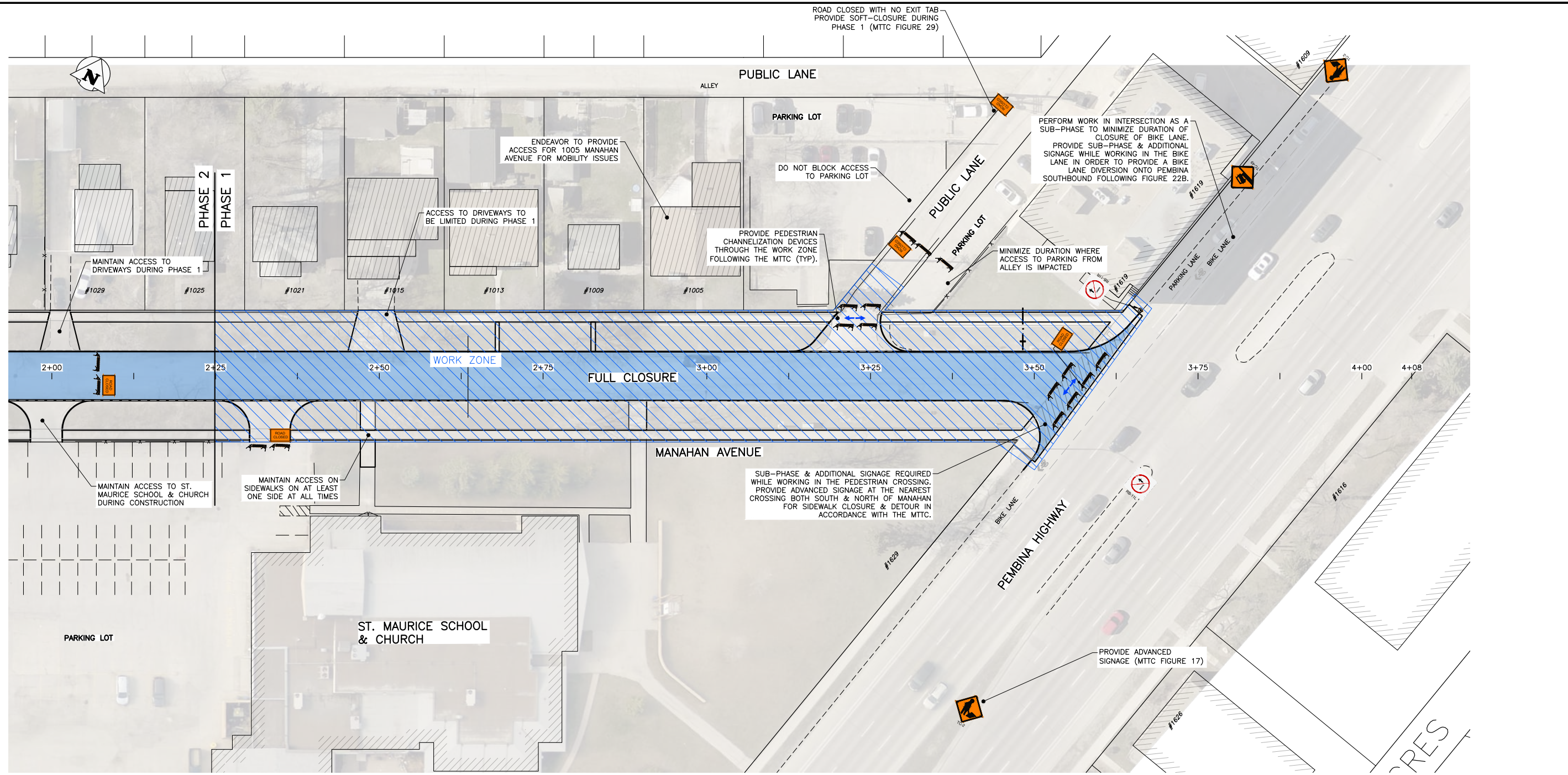
- PERFORM WORK IN TWO PHASES TO MAINTAIN ACCESS TO ST. MAURICE SCHOOL & CHURCH.
- PHASE 1: RECONSTRUCT FROM STA 2+25 TO PEMBINA.
- PHASE 2: RECONSTRUCT FROM HUDSON TO STA 2+25.
- PROVIDE ADDITIONAL SUB-PHASES FOR WORK IN INTERSECTIONS.
- MINIMIZE IMPACT TO TRAFFIC IN INTERSECTIONS BY MINIMIZING DURATION OF INTERSECTION WORKS.
- PROVIDE ADDITIONAL SUB-PHASES & SIGNAGE FOR INTERSECTION WORK.
  - FOR HUDSON INTERSECTION PROVIDE TEMPORARY CLOSURE FOLLOWING FIGURE 28.
  - FOR PEMBINA INTERSECTION PROVIDE TEMPORARY BIKE LANE DETOUR FOLLOWING FIGURE 22B.

TENDER NO. 267-2023

<b>THE CITY OF WINNIPEG</b> PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION		
PROJECT TITLE <b>2023 LOCAL STREET RENEWALS: MANAHAN AVENUE &amp; VARIOUS OTHER LOCATIONS</b>		SHEET OF 9 OF 15
PHASING & SIGNAGE PLAN: <b>MANAHAN AVENUE: AC RECONSTRUCTION</b> PHASE 1 SHEET 1		COMPUTER FILE NAME 22-0107-009
		FIGURE F-1201

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C	ISSUED FOR TENDER	23/05/05	GES
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**STAGING & SIGNAGE: PHASE 1**  
SCALE: NTS

PEDESTRIANS  
 TEMPORARY TRAFFIC FLOW

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- TEMPORARY TRANSIT LANDINGS WILL BE REQUIRED FOR ANY TEMPORARY TRANSIT STOP RELOCATIONS IN ACCORDANCE WITH THE MTTC.
- CONTRACTOR TO MONITOR & MAINTAIN THE TEMPORARY SIGNAGE FOR THE DURATION OF THE PROJECT & MODIFY AS NEEDED FOR EACH STAGE OF THE WORKS.
- CONTRACTOR TO REMEDY ANY SIGNAGE DEEMED INSUFFICIENT OR INCORRECT AS DIRECTED BY THE CONTRACT ADMINISTRATOR OR TRAFFIC MANAGEMENT.
- STAGE SIDEWALK WORK SUCH THAT PEDESTRIAN ACCESS IS MAINTAINED ALONG ONE SIDE OF EACH ROADWAY AT ALL TIMES.
- PROVIDE ADVANCED CONSTRUCTION & SIDEWALK CLOSED/DETOUR SIGNAGE IN ACCORDANCE WITH THE MTTC. PROVIDE SMALL CONES IN CENTRE WHERE BARRICADES .GUIDE PEDESTRIANS THROUGH THE CONSTRUCTION ZONE.

ENSURE PHASE 1 IS COMPLETED PRIOR TO SCHOOL STARTING IN SEPTEMBER.

**TRAFFIC MANAGEMENT: MANAHAN AC RECONSTRUCTION**

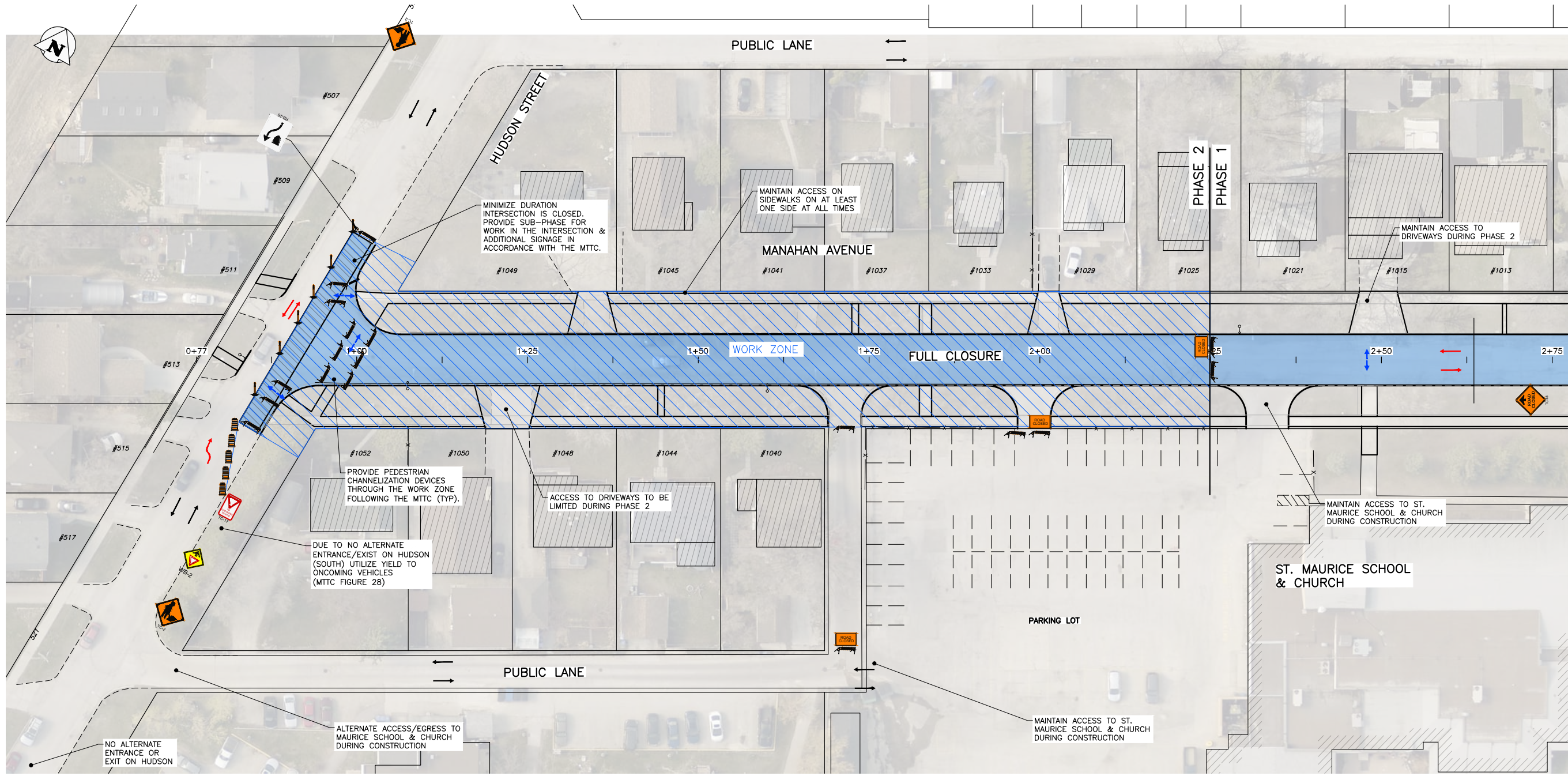
- PERFORM WORK IN TWO PHASES TO MAINTAIN ACCESS TO ST. MAURICE SCHOOL & CHURCH.
- PHASE 1: RECONSTRUCT FROM STA 2+25 TO PEMBINA.
- PHASE 2: RECONSTRUCT FROM HUDSON TO STA 2+25.
- PROVIDE ADDITIONAL SUB-PHASES FOR WORK IN INTERSECTIONS.
- MINIMIZE IMPACT TO TRAFFIC IN INTERSECTIONS BY MINIMIZING DURATION OF INTERSECTION WORKS.
- PROVIDE ADDITIONAL SUB-PHASES & SIGNAGE FOR INTERSECTION WORK.
  - FOR HUDSON INTERSECTION PROVIDE TEMPORARY CLOSURE FOLLOWING FIGURE 28.
  - FOR PEMBINA INTERSECTION PROVIDE TEMPORARY BIKE LANE DETOUR FOLLOWING FIGURE 22B.

TENDER NO. 267-2023

<b>THE CITY OF WINNIPEG</b> PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION		
PROJECT TITLE <b>2023 LOCAL STREET RENEWALS: MANAHAN AVENUE &amp; VARIOUS OTHER LOCATIONS</b>		SHEET OF 10 15
PHASING & SIGNAGE PLAN: MANAHAN AVENUE: AC RECONSTRUCTION PHASE 1 SHEET 2		COMPUTER FILE NAME 22-0107-009
		FIGURE F-1202

NO.	REVISIONS	DATE	BY
C	ISSUED FOR TENDER	23/05/05	GES
B	ISSUED FOR REVIEW	23/05/03	GES
A	ISSUED FOR REVIEW	23/04/24	GES

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**STAGING & SIGNAGE: PHASE 2**  
SCALE: NTS

PEDESTRIANS  
 TEMPORARY TRAFFIC FLOW

**PROPERTY LIMITS DELINEATION**

DELINEATION OF PROPERTY LIMITS AS SHOWN ON THIS DWG DOES NOT REPRESENT A "LEGAL SURVEY". KGS GROUP MAKES NO REPRESENTATION OR WARRANTY AS TO THE ACCURACY OF PROPERTY LIMITS DELINEATED ON THIS DWG, NOR ON THE DIMENSIONAL ACCURACY OF DWG FEATURES RELATIVE TO THOSE PROPERTY LIMITS.

**METRIC**

WHOLE NUMBERS INDICATE MILLIMETRES  
DECIMALIZED NUMBERS INDICATE METRES

**GENERAL NOTES:**

- ALL TEMPORARY TRAFFIC CONTROL TO BE IN ACCORDANCE WITH THE LATEST MANUAL OF TEMPORARY TRAFFIC CONTROL ON CITY STREETS (MTTC) AT TENDER.
- PERFORM WORK IN PHASES & STAGES TO MINIMIZE IMPACT TO TRAFFIC FLOW AND ACCESS TO RESIDENCES.
- NOT ALL REQUIRED SIGNAGE IS SHOWN FOR EACH PHASE & SUB-PHASE. ADDITIONAL SIGNAGE TO PROVIDED IN ACCORDANCE WITH THE MTTC.
- THE PERMANENT POSTED SPEED LIMIT OF 50 KM/HR SHALL BE USED FOR ALL TAPER LENGTHS AND OTHER CRITERIA IN THE MTTC.
- CONTRACTOR SHALL SUBMIT THE PEDESTRIAN ACCESSIBILITY PLAN FOR REVIEW & ACCEPTANCE BY THE CONTRACT ADMINISTRATOR.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS, THE SUPPLY, PLACEMENT & MAINTENANCE OF ALL TEMPORARY TRAFFIC CONTROL SIGNAGE IN ACCORDANCE WITH THE TENDER.
- ALL LANE CLOSURE REQUESTS MUST BE SUBMITTED THROUGH THE CONTRACT ADMINISTRATOR & ARE SUBJECT TO THE APPROVAL OF THE TRAFFIC MANAGEMENT BRANCH.
- CONTRACTOR TO PROVIDE FLAGPERSONS IN ACCORDANCE WITH THE MTTC WHEN MOVING MATERIALS OR EQUIPMENT INTO OR OUT OF TRAFFIC.
- CONTRACTOR SHALL PROVIDE FLAGPERSONS DURING ALL ASPHALT PLACEMENT AT THE PROJECT LIMITS TO MINIMIZE IMPACT TO TRAFFIC.
- WHEN FLAGPERSONS ARE PRESENT, FLAGPERSON SIGNAGE MUST BE PLACED IN ACCORDANCE WITH THE MTTC.

- WHEN FLAGPERSONS ARE NOT PRESENT, THE FLAGPERSON SIGNAGE MUST BE REMOVED OR HIDDEN.
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- INSTALL WARNING FLAGS IN ACCORDANCE WITH MTTC 3.07.04 ON THE FIRST WARNING SIGN IN EACH LANE DROP TAPER.
- WHERE A LANE IS REQUIRED TO BE CLOSED ON MAJOR INTERSECTING STREETS PERFORM THE WORK ON THE TIE-IN DURING OFF PEAK-HOURS.
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ENSURE PHASE 1 IS COMPLETED PRIOR TO SCHOOL STARTING IN SEPTEMBER.

**TRAFFIC MANAGEMENT: MANAHAN AC RECONSTRUCTION**

- PERFORM WORK IN TWO PHASES TO MAINTAIN ACCESS TO ST. MAURICE SCHOOL & CHURCH.
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  - FOR HUDSON INTERSECTION PROVIDE TEMPORARY CLOSURE FOLLOWING FIGURE 28.
  - FOR PEMBINA INTERSECTION PROVIDE TEMPORARY BIKE LANE DETOUR FOLLOWING FIGURE 22B.

TENDER NO. 267-2023

**THE CITY OF WINNIPEG**  
 PUBLIC WORKS DEPARTMENT  
 ENGINEERING DIVISION

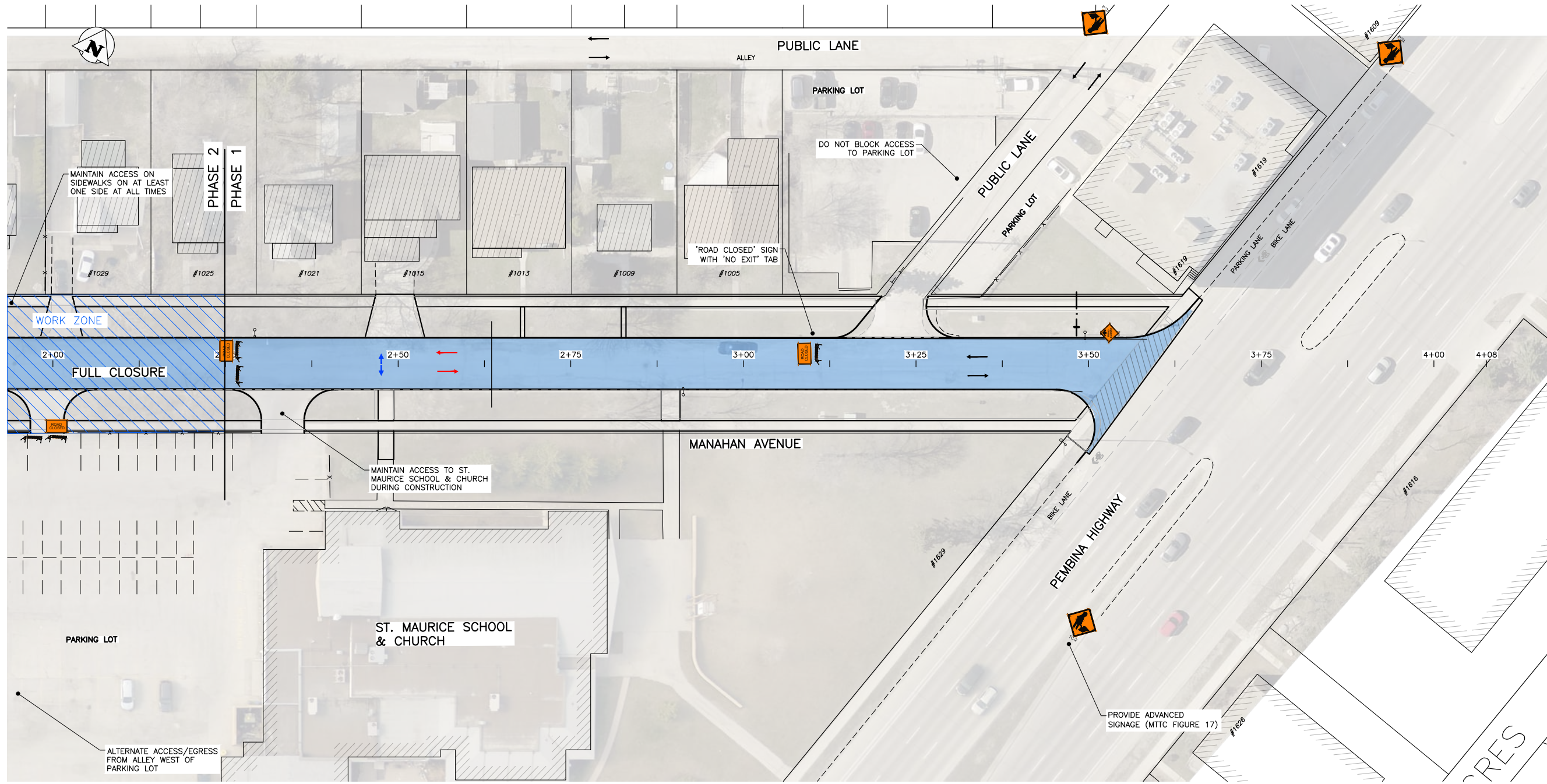


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C	ISSUED FOR TENDER	23/05/05	GES
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PROJECT TITLE  
**2023 LOCAL STREET RENEWALS: MANAHAN AVENUE & VARIOUS OTHER LOCATIONS**  
 PHASING & SIGNAGE PLAN:  
 MANAHAN AVENUE: AC RECONSTRUCTION  
 PHASE 2 SHEET 1

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FIGURE	
F-1203	

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**STAGING & SIGNAGE: PHASE 2**  
SCALE: NTS

PEDESTRIANS  
 TEMPORARY TRAFFIC FLOW

**PROPERTY LIMITS DELINEATION**

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  - FOR HUDSON INTERSECTION PROVIDE TEMPORARY CLOSURE FOLLOWING FIGURE 28.
  - FOR PEMBINA INTERSECTION PROVIDE TEMPORARY BIKE LANE DETOUR FOLLOWING FIGURE 22B.

TENDER NO. 267-2023

**THE CITY OF WINNIPEG**  
 PUBLIC WORKS DEPARTMENT  
 ENGINEERING DIVISION



NO.	REVISIONS	DATE	BY
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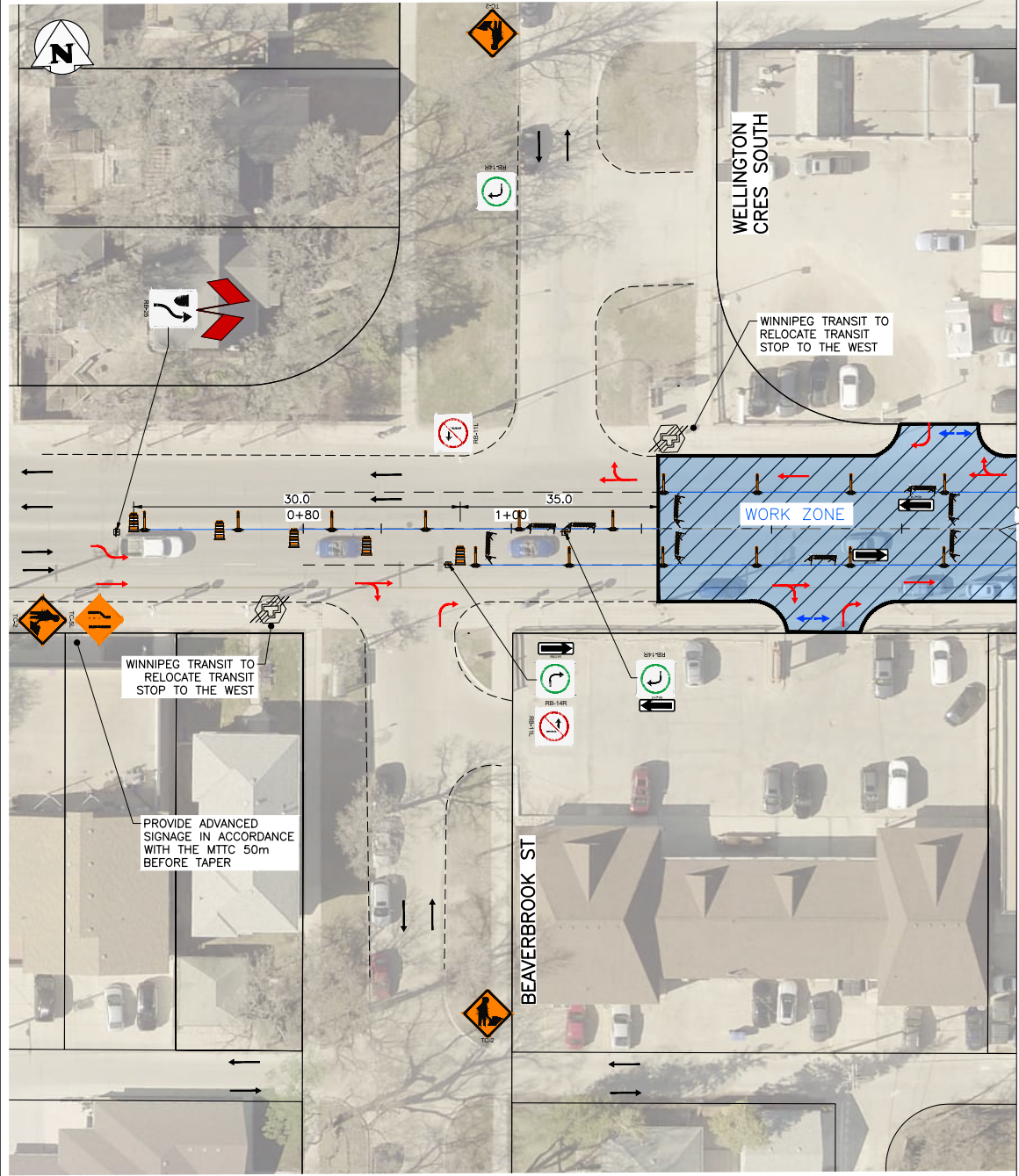
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**2023 LOCAL STREET RENEWALS: MANAHAN AVENUE & VARIOUS OTHER LOCATIONS**

PHASING & SIGNAGE PLAN:  
MANAHAN AVENUE: AC RECONSTRUCTION  
PHASE 2 SHEET 2

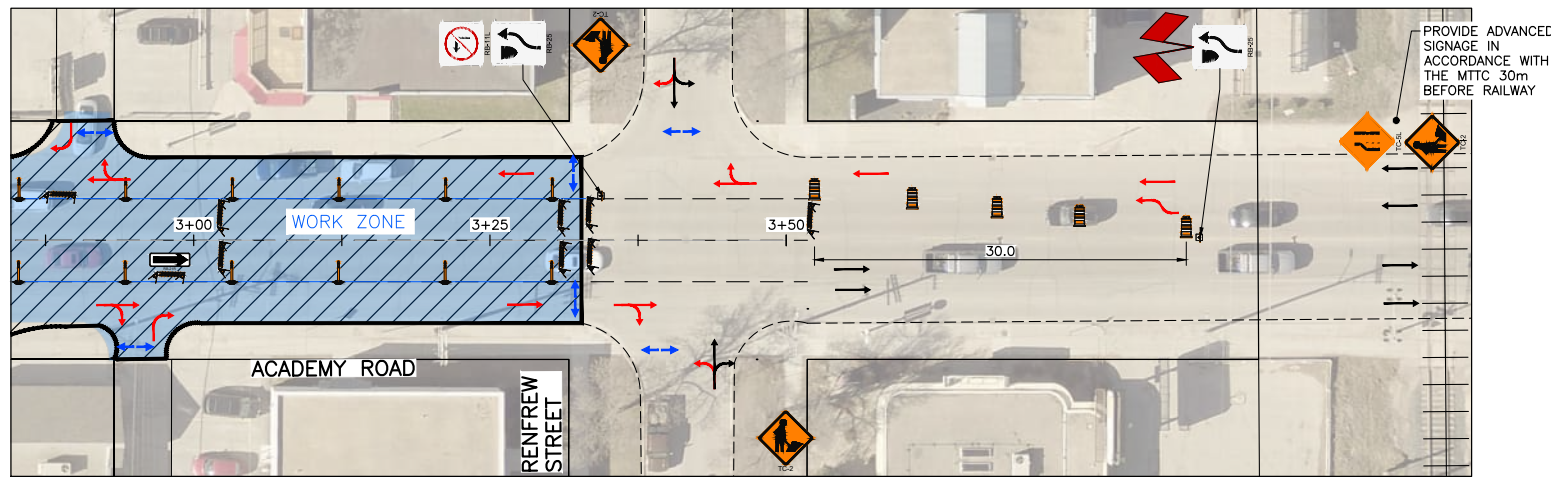
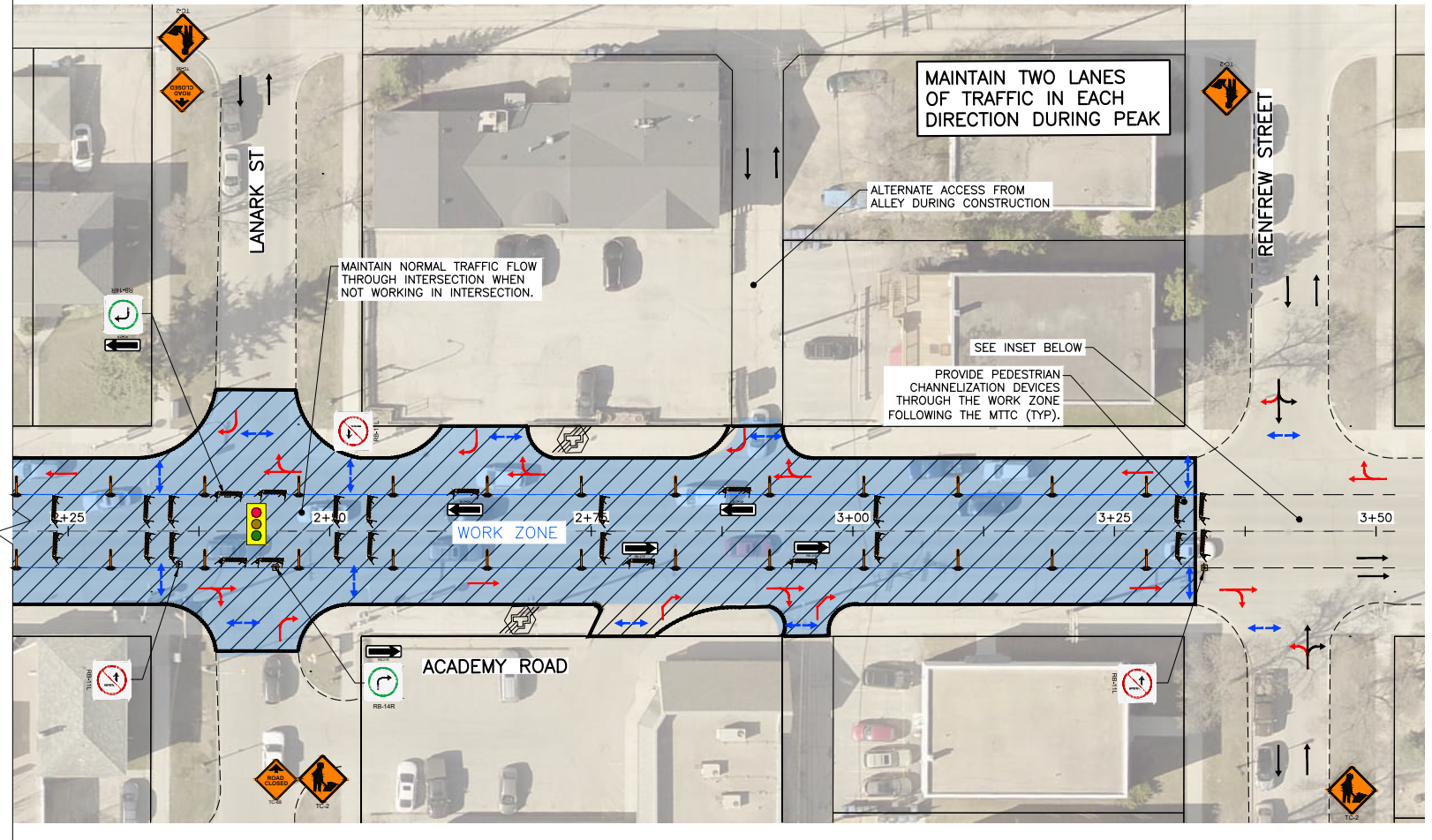
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22-0107-009	
FIGURE	
F-1204	

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 All (KGS) PLOT SCALE: 1:1



**STAGING & SIGNAGE: PHASE 1**  
SCALE: NTS



← PEDESTRIANS  
 → TEMPORARY TRAFFIC FLOW

**PROPERTY LIMITS DELINEATION**  
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**TRAFFIC MANAGEMENT: ACADEMY ROAD MILL & FILL**  
 1. PERFORM WORK IN TWO PHASES, LANE-AT-A-TIME.  
 1.1. PHASE 1: MILL & FILL THE MIDDLE EASTBOUND & WESTBOUND LANES WHILE MAINTAINING TRAFFIC FLOW IN THE REMAINING LANES.  
 1.2. PHASE 2: MILL & FILL THE EASTBOUND & WESTBOUND CURB LANES WHILE MAINTAINING TRAFFIC FLOW IN THE REMAINING LANES.  
 1.3. CONTRACTOR MAY CHOOSE TO PERFORM PHASE 1 OR 2 FIRST.  
 2. SEE MTTC FIGURE 1A & 13.

TENDER NO. 267-2023

**THE CITY OF WINNIPEG**  
 PUBLIC WORKS DEPARTMENT  
 ENGINEERING DIVISION

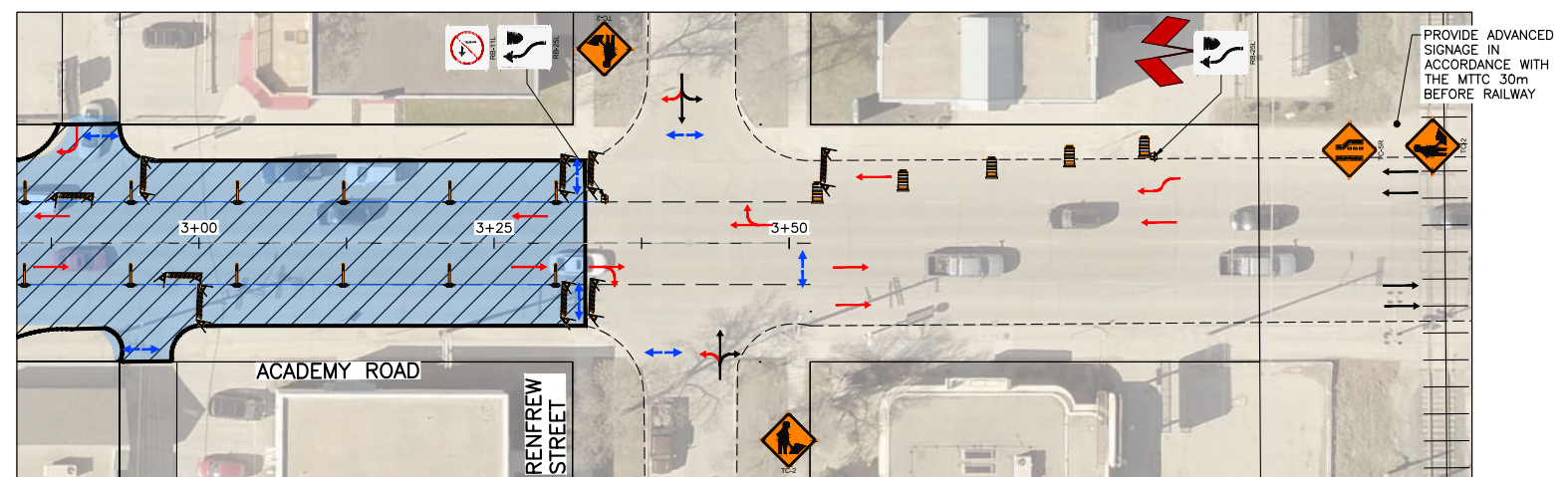
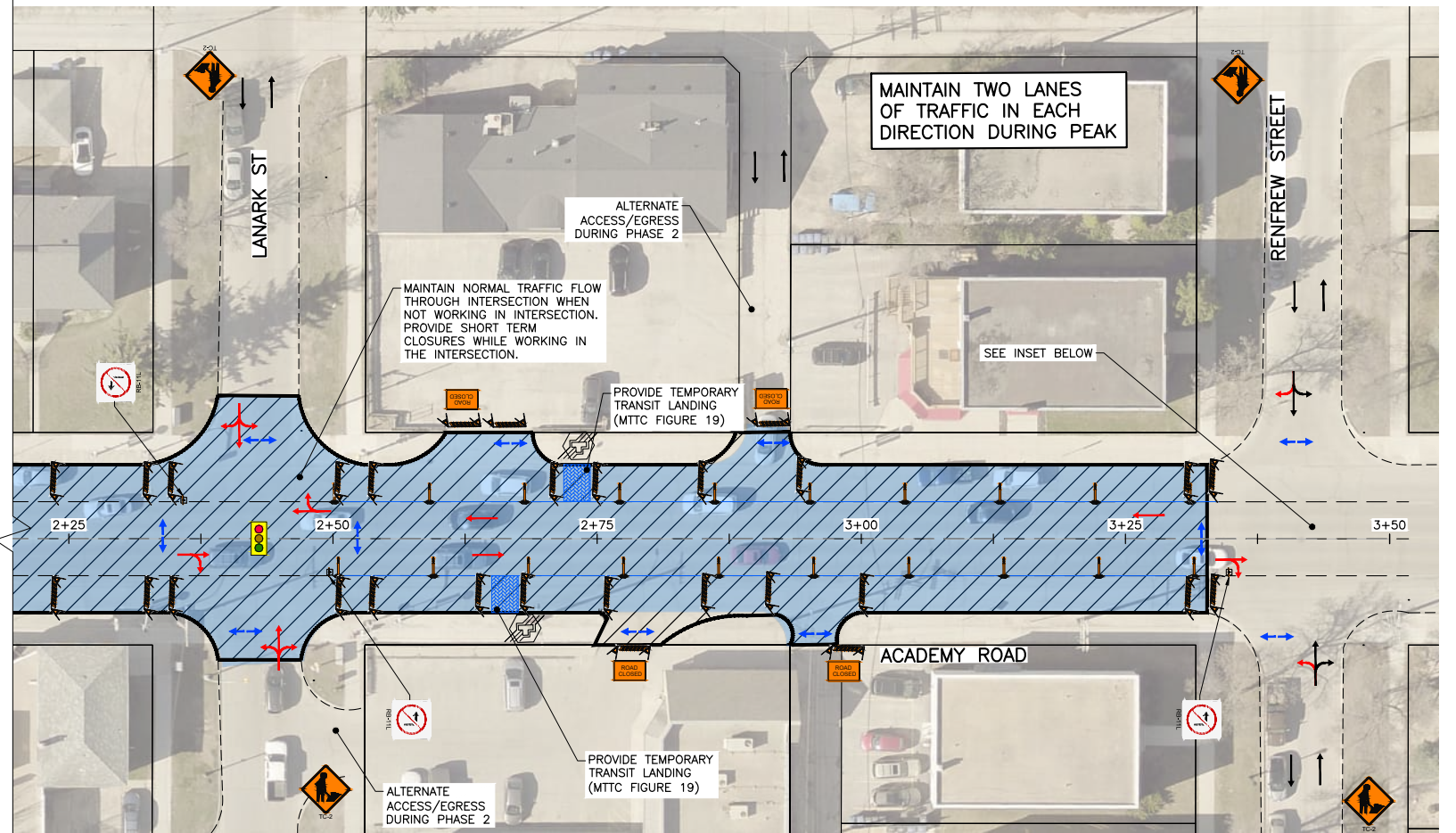
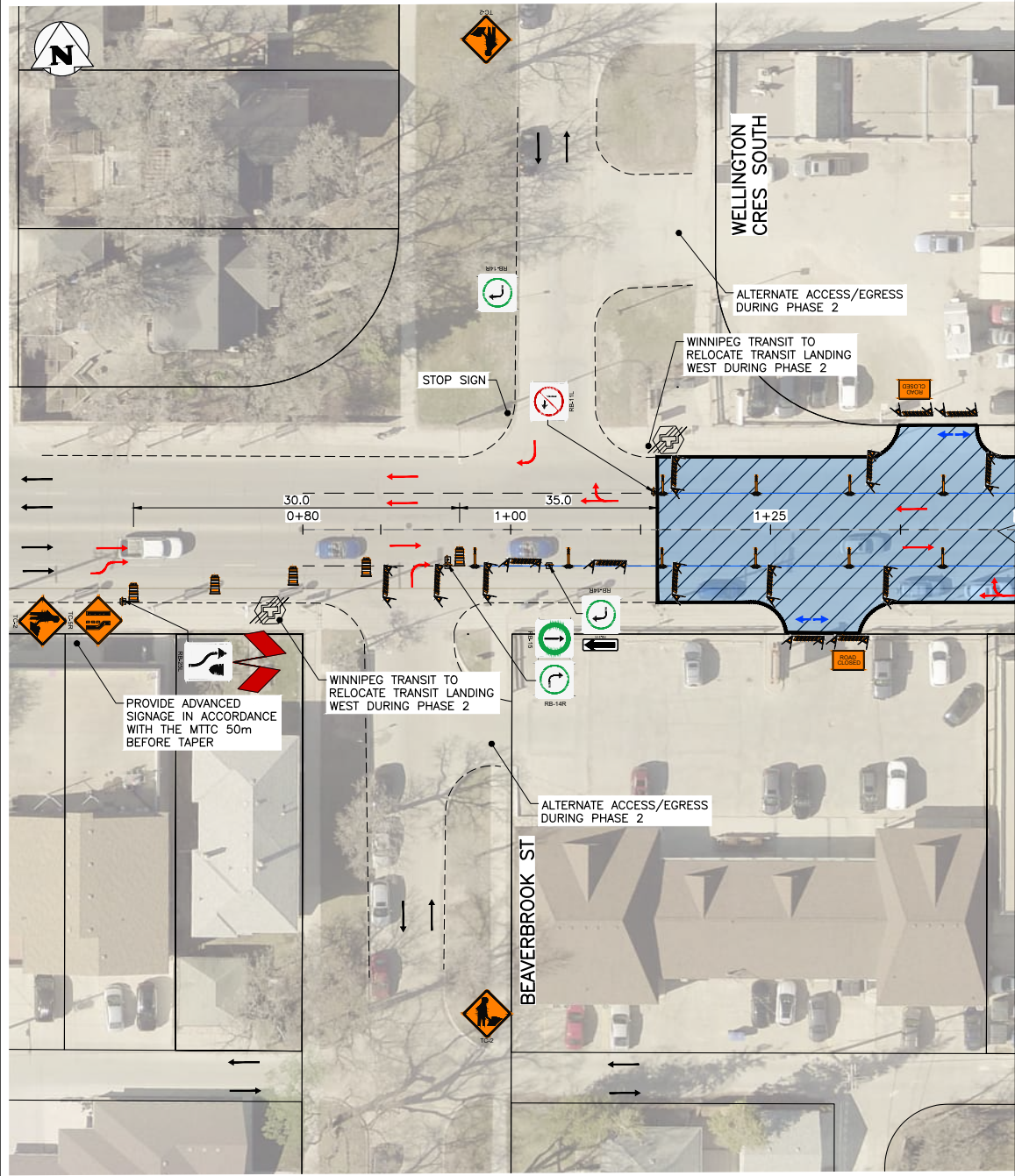
**KGS GROUP**

PROJECT TITLE: 2023 LOCAL STREET RENEWALS: MANAHAN AVENUE & VARIOUS OTHER LOCATIONS  
 PHASING & SIGNAGE PLAN: ACADEMY ROAD: MILL & FILL PHASE 1

SHEET OF 13 15  
 COMPUTER FILE NAME: 22-0107-009  
 FIGURE: F-1301

NO.	REVISIONS	DATE	BY
C	ISSUED FOR TENDER	23/05/05	GES
B	ISSUED FOR REVIEW	23/05/03	GES
A	ISSUED FOR REVIEW	23/04/24	GES

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**STAGING & SIGNAGE: PHASE 2**

SCALE: NTS

- ↔ PEDESTRIANS
- TEMPORARY TRAFFIC FLOW

**PROPERTY LIMITS DELINEATION**

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**METRIC**

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**GENERAL NOTES:**

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10. WHEN FLAGPERSONS ARE PRESENT, FLAGPERSON SIGNAGE MUST BE PLACED IN ACCORDANCE WITH THE MITC.

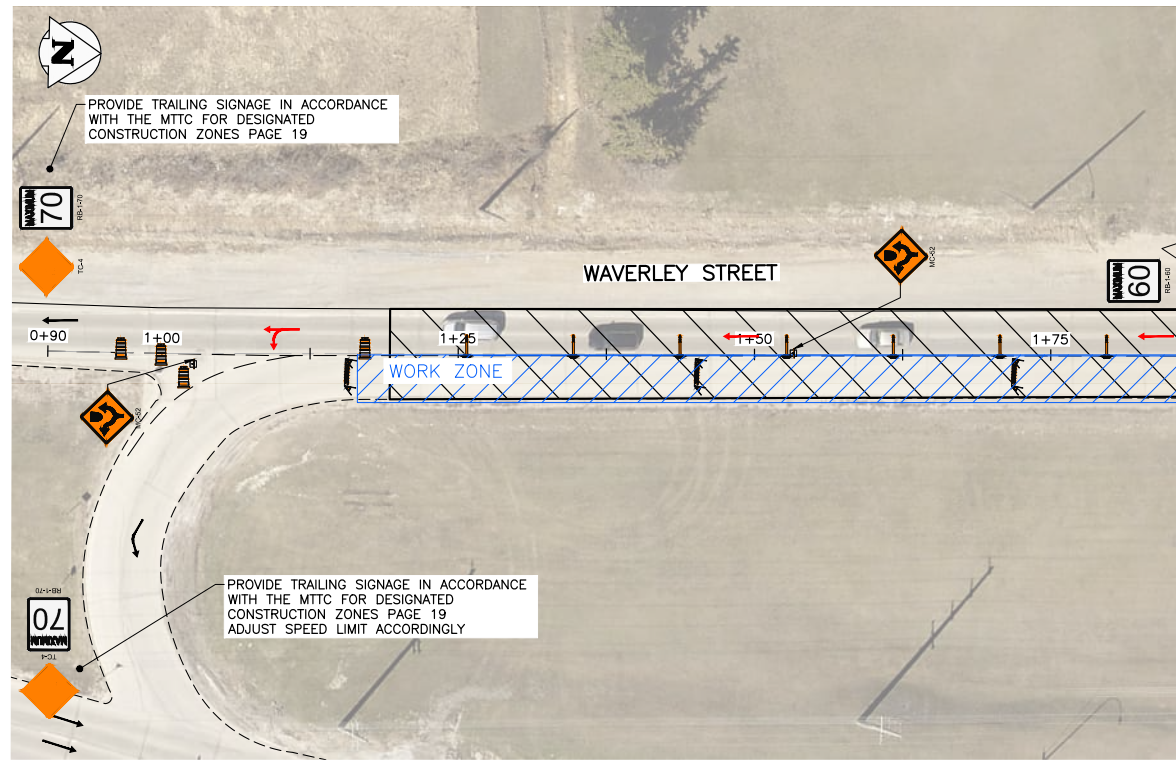
11. WHEN FLAGPERSONS ARE NOT PRESENT, THE FLAGPERSON SIGNAGE MUST BE REMOVED OR HIDDEN.
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13. INSTALL WARNING FLAGS IN ACCORDANCE WITH MITC 3.07.04 ON THE FIRST WARNING SIGN IN EACH LANE DROP TAPER.
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**TRAFFIC MANAGEMENT: ACADEMY ROAD MILL & FILL**  
 1. PERFORM WORK IN TWO PHASES, LANE-AT-A-TIME.  
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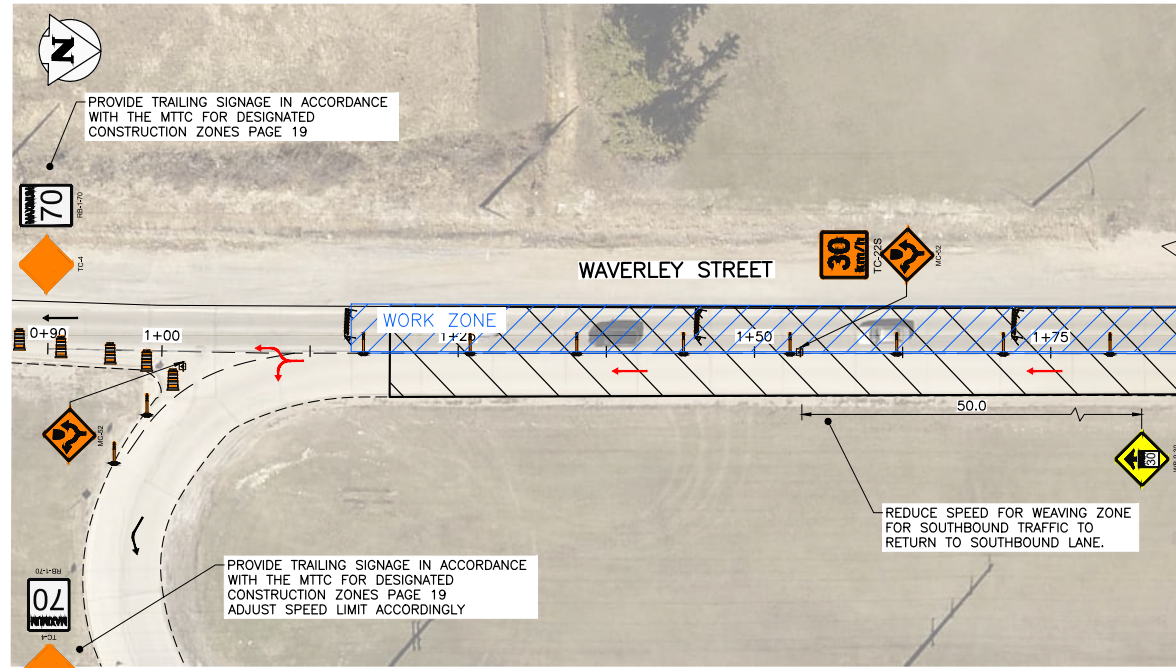
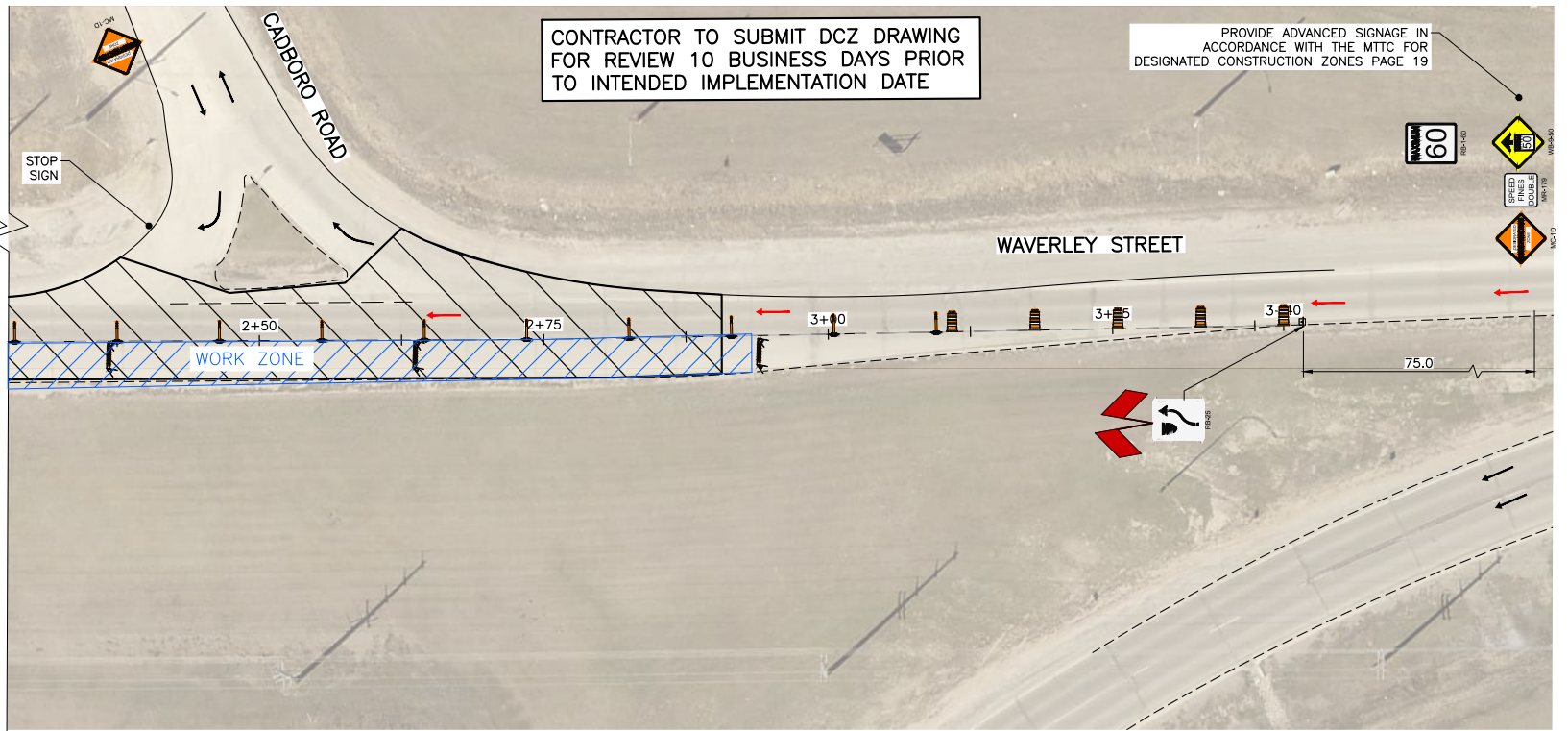
TENDER NO. 267-2023

<b>THE CITY OF WINNIPEG</b> PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION	
PROJECT TITLE <b>2023 LOCAL STREET RENEWALS: MANAHAN AVENUE &amp; VARIOUS OTHER LOCATIONS</b>	
PHASING & SIGNAGE PLAN: <b>ACADEMY ROAD: MILL &amp; FILL PHASE 2</b>	
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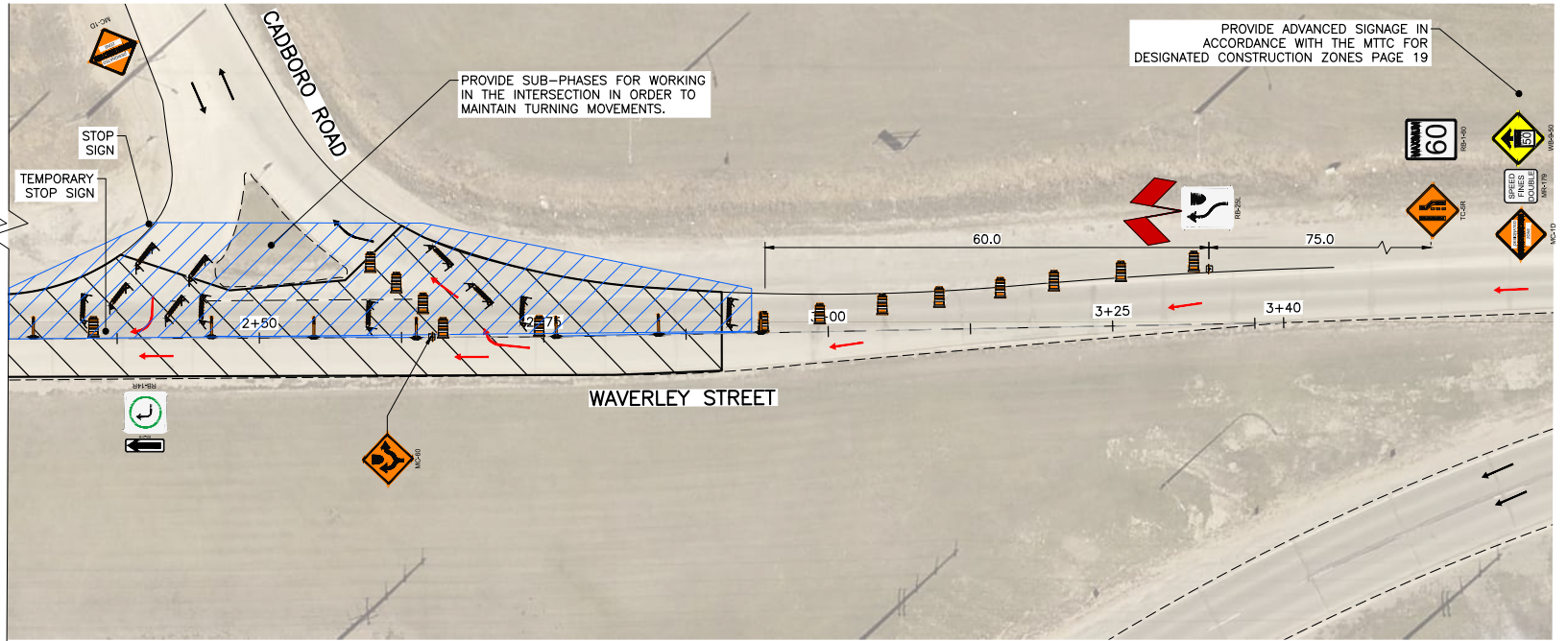
NO.	REVISIONS	DATE	BY
B	ISSUED FOR REVIEW	23/05/03	GES
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**STAGING & SIGNAGE: PHASE 1**  
SCALE: NTS



**STAGING & SIGNAGE: PHASE 2**  
SCALE: NTS



PEDESTRIANS  
 TEMPORARY TRAFFIC FLOW

**PROPERTY LIMITS DELINEATION**  
 DELINEATION OF PROPERTY LIMITS AS SHOWN ON THIS DWG DOES NOT REPRESENT A "LEGAL SURVEY". KGS GROUP MAKES NO REPRESENTATION OR WARRANTY AS TO THE ACCURACY OF PROPERTY LIMITS DELINEATED ON THIS DWG, NOR ON THE DIMENSIONAL ACCURACY OF DWG FEATURES RELATIVE TO THOSE PROPERTY LIMITS.

**METRIC**  
 WHOLE NUMBERS INDICATE MILLIMETRES  
 DECIMALIZED NUMBERS INDICATE METRES

**GENERAL NOTES:**

- ALL TEMPORARY TRAFFIC CONTROL TO BE IN ACCORDANCE WITH THE LATEST MANUAL OF TEMPORARY TRAFFIC CONTROL ON CITY STREETS (MITC) AT TENDER.
- PERFORM WORK IN PHASES & STAGES TO MINIMIZE IMPACT TO TRAFFIC FLOW AND ACCESS TO RESIDENCES.
- NOT ALL REQUIRED SIGNAGE IS SHOWN FOR EACH PHASE & SUB-PHASE. ADDITIONAL SIGNAGE TO PROVIDED IN ACCORDANCE WITH THE MITC.
- THE PERMANENT POSTED SPEED LIMIT OF 50 KM/HR SHALL BE USED FOR ALL TAPER LENGTHS AND OTHER CRITERIA IN THE MITC.
- CONTRACTOR SHALL SUBMIT THE PEDESTRIAN ACCESSIBILITY PLAN FOR REVIEW & ACCEPTANCE BY THE CONTRACT ADMINISTRATOR.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS, THE SUPPLY, PLACEMENT & MAINTENANCE OF ALL TEMPORARY TRAFFIC CONTROL SIGNAGE IN ACCORDANCE WITH THE TENDER.
- ALL LANE CLOSURE REQUESTS MUST BE SUBMITTED THROUGH THE CONTRACT ADMINISTRATOR & ARE SUBJECT TO THE APPROVAL OF THE TRAFFIC MANAGEMENT BRANCH.
- CONTRACTOR TO PROVIDE FLAGPERSONS IN ACCORDANCE WITH THE MITC WHEN MOVING MATERIALS OR EQUIPMENT INTO OR OUT OF TRAFFIC.
- CONTRACTOR SHALL PROVIDE FLAGPERSONS DURING ALL ASPHALT PLACEMENT AT THE PROJECT LIMITS TO MINIMIZE IMPACT TO TRAFFIC.
- WHEN FLAGPERSONS ARE PRESENT, FLAGPERSON SIGNAGE MUST BE PLACED IN ACCORDANCE WITH THE MITC.

- WHEN FLAGPERSONS ARE NOT PRESENT, THE FLAGPERSON SIGNAGE MUST BE REMOVED OR HIDDEN.
- PROVIDE TEMPORARY RAMPS & CROSSING WHERE DIRECTED BY CONTRACT ADMINISTRATOR & IN ACCORDANCE WITH THE ACCESSIBILITY PLAN FOR PEDESTRIAN CROSSINGS WHILE PERFORMING WORK IN THE INTERSECTIONS AND APPROACHES.
- INSTALL WARNING FLAGS IN ACCORDANCE WITH MITC 3.07.04 ON THE FIRST WARNING SIGN IN EACH LANE DROP TAPER.
- WHERE A LANE IS REQUIRED TO BE CLOSED ON MAJOR INTERSECTING STREETS PERFORM THE WORK ON THE TIE-IN DURING OFF PEAK-HOURS.
- TEMPORARY TRANSIT LANDINGS WILL BE REQUIRED FOR ANY TEMPORARY TRANSIT STOP RELOCATIONS IN ACCORDANCE WITH THE MITC.
- CONTRACTOR TO MONITOR & MAINTAIN THE TEMPORARY SIGNAGE FOR THE DURATION OF THE PROJECT & MODIFY AS NEEDED FOR EACH STAGE OF THE WORKS.
- CONTRACTOR TO REMEDY ANY SIGNAGE DEEMED INSUFFICIENT OR INCORRECT AS DIRECTED BY THE CONTRACT ADMINISTRATOR OR TRAFFIC MANAGEMENT.
- STAGE SIDEWALK WORK SUCH THAT PEDESTRIAN ACCESS IS MAINTAINED ALONG ONE SIDE OF EACH ROADWAY AT ALL TIMES.
- PROVIDE ADVANCED CONSTRUCTION & SIDEWALK CLOSED/DETOUR SIGNAGE IN ACCORDANCE WITH THE MITC. PROVIDE SMALL CONES IN CENTRE WHERE BARRICADES .GUIDE PEDESTRIANS THROUGH THE CONSTRUCTION ZONE.

**DESIGNATED CONSTRUCTION ZONE**

- CONTRACTOR SHALL SUBMIT AN APPLICATION FOR IMPLEMENTATION OF THE DESIGNATED CONSTRUCTION ZONE (DCZ) 10 BUSINESS DAYS PRIOR TO THE DESIRED IMPLEMENTATION DATE.
- PROVIDE REDUCED SPEED SIGNS IN ADVANCE OF CONSTRUCTION ZONE RESTRICTING THE SPEED TO 60 KM/HR FOR PHASE 1 & PHASE 2.
- A SECONDARY SPEED REDUCTION WILL BE REQUIRED FOR PHASE 2 AT THE SOUTH LIMIT, REDUCING THE SPEED TO 30 KM/HR FOR THE PORTION OF THE PHASE 2 EXIT FOLLOWING MITC 3.05.
- INSTALL SIGNAGE FOR THE DCZ IN ACCORDANCE WITH THE PROVINCIAL DESIGNATED CONSTRUCTION ZONES REGULATION 145/2014.
- VARIABLE MESSAGE SIGNS (VMS) FOR ADVANCED SIGNAGE ON WAVERLEY STREET MAY BE REQUIRED. CONTRACTOR TO PROVIDE VMS IF REQUIRED BY TRAFFIC MANAGEMENT.

**TRAFFIC MANAGEMENT: WAVERLEY ROAD MILL & FILL**

- PERFORM WORK IN TWO PHASES, LANE-AT-A-TIME.
  - PHASE 1: MILL & FILL THE MEDIAN SOUTHBOUND LANE WHILE MAINTAINING TRAFFIC FLOW ON THE INSIDE SOUTHBOUND LANE.
  - PHASE 2: MILL & FILL THE INSIDE SOUTHBOUND LANE WHILE MAINTAINING TRAFFIC FLOW ON THE MEDIAN SOUTHBOUND LANE.
- PROVIDE TEMPORARY ACCESS TO CADBORO ROAD DURING PHASE 2 THROUGH CONSTRUCTION ZONE.
- PROVIDE TAPER LENGTHS & SIGNAGE FOR A POSTED SPEED LIMIT OF 70 KM/HR EVEN WITH THE DESIGNATED CONSTRUCTION ZONE IMPLEMENTED.
- SEE MITC DCZ SECTION 3.04.

NO.	REVISIONS	DATE	BY
C	ISSUED FOR TENDER	23/05/05	GES
B	ISSUED FOR REVIEW	23/05/03	GES
A	ISSUED FOR REVIEW	23/04/24	GES

TENDER NO. 267-2023

**THE CITY OF WINNIPEG**  
PUBLIC WORKS DEPARTMENT  
ENGINEERING DIVISION

PROJECT TITLE  
**2023 LOCAL STREET RENEWALS: MANAHAN AVENUE & VARIOUS OTHER LOCATIONS**

PHASING & SIGNAGE PLAN:  
 WAVERLEY STREET: MILL & FILL  
 PHASE 1 & 2

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