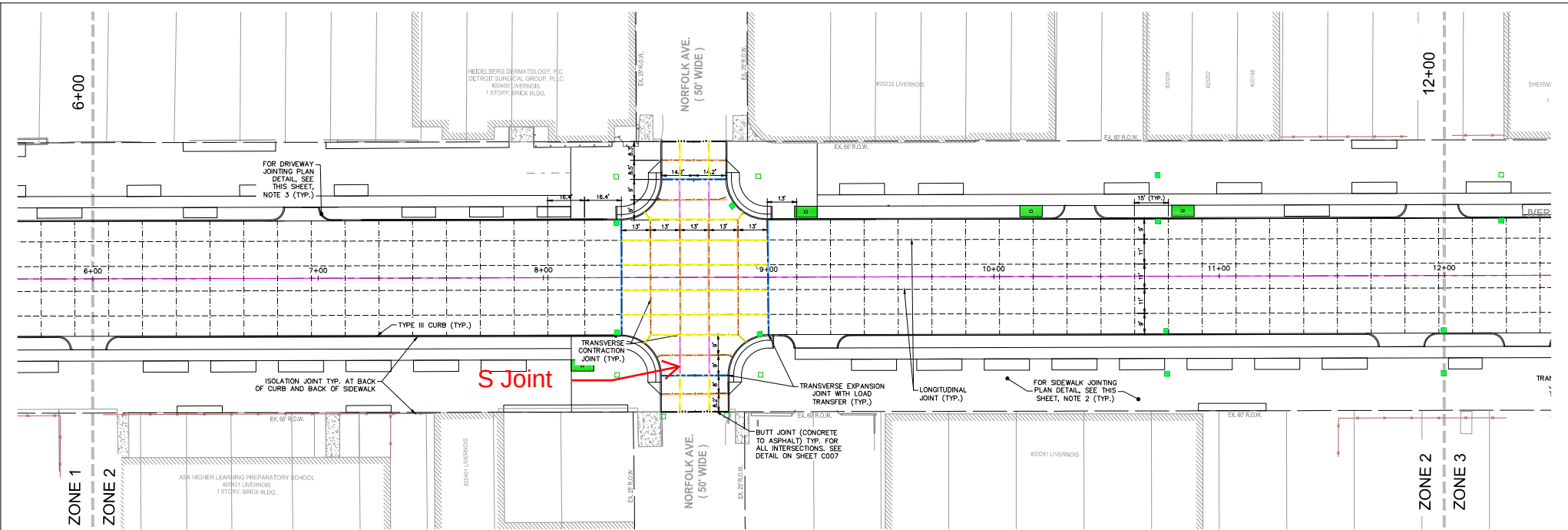




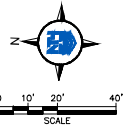
LEGEND

- PROPOSED BUTT JOINT, SEE SHEET C007 FOR DETAIL.
- EXISTING RIGHT-OF-WAY
- PROPOSED TRANSVERSE CONTRACTION JOINT
SEE CITY OF DETROIT DETAIL C-4943 DET. NO. 6 (ON SHEET C006)
- PROPOSED TRANSVERSE EXPANSION JOINT W/ LOAD TRANSFER
SEE CITY OF DETROIT DETAIL C-4943 DET. NO. 7 (ON SHEET C006)
- PROPOSED LONGITUDINAL JOINT
SEE CITY OF DETROIT DETAIL C-4943 DET. NO. 1 OR 2 (ON SHEET C006)

- Longitudinal Joint (Tie Bar)
- Expansion Joint (Basket)
- S Joint @ 40"
- Transverse Contraction Joint (Basket)

NOTES

1. FOR JOINT DETAILS, SEE SHEETS C006-C007.
- 1.1. JOINTING PLAN BASED ON CITY OF DETROIT STANDARD DETAIL C-4379, "TYPICAL JOINT LAYOUT FOR NON-REINFORCED CONCRETE PAVEMENT."
- 1.2. CITY OF DETROIT STANDARD JOINT DETAILS, WHERE SPECIFIED, APPLY WITHOUT PAVEMENT REINFORCEMENT, SEE SHEETS C006-C007.
2. FOR SIDEWALK JOINTING PLAN, SEE LANDSCAPE MATERIALS PLAN ON SHEETS L201-L211.
3. FOR SAW CUT, CONTRACTION, AND EXPANSION JOINT DETAILS AT PROPOSED DRIVEWAY/ALLEY CONNECTIONS, SEE CITY OF DETROIT DETAIL C-4384 (DETAIL 2 ON SHEET L801).
4. LENGTH BETWEEN EXPANSION JOINTS, PER DETAIL C-4379:
 - 4.1. WHERE BLOCK LENGTH IS 600 FT. OR LESS, EXPANSION JOINTS ARE TO BE PLACED AT THE END OF CIRCLES (PC/PT) AT STREET INTERSECTIONS (NOT DRIVEWAY OR ALLEY INTERSECTIONS).
 - 4.2. WHERE BLOCK LENGTH IS OVER 600 FT., A MINIMUM NUMBER OF INTERMEDIATE EXPANSION JOINTS ARE TO BE PLACED AT EQUAL INTERVALS, NOT TO EXCEED 600 FT. APART.
5. LONGITUDINAL JOINTS SHOWN SHALL BE EITHER CITY OF DETROIT DETAIL C-4943, DET. NO. 1, "LONGITUDINAL LANE TIE JOINT" OR CITY OF DETROIT DETAIL C-4943, DET. NO. 2, "LONGITUDINAL BULKHEAD CONSTRUCTION JOINT" DEPENDING ON PAVEMENT OPERATIONS AT TIME OF CONSTRUCTION. CONTRACTOR PAVING OPERATIONS TO DICTATE THE TYPE OF LONGITUDINAL LANE TIE JOINTS, PRIOR TO CONSTRUCTION, CONTRACTOR SHALL REVIEW JOINTING PLAN WITH OWNER AND ENGINEER FOR ANY IMPLEMENTATION CONCERNS OR DEVIATIONS.
6. JOINT SEALING IS REQUIRED AS PROVIDED IN THE JOINTING DETAILS ON SHEETS C006-C007.



PRIME CONSULTANT

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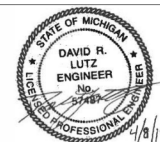
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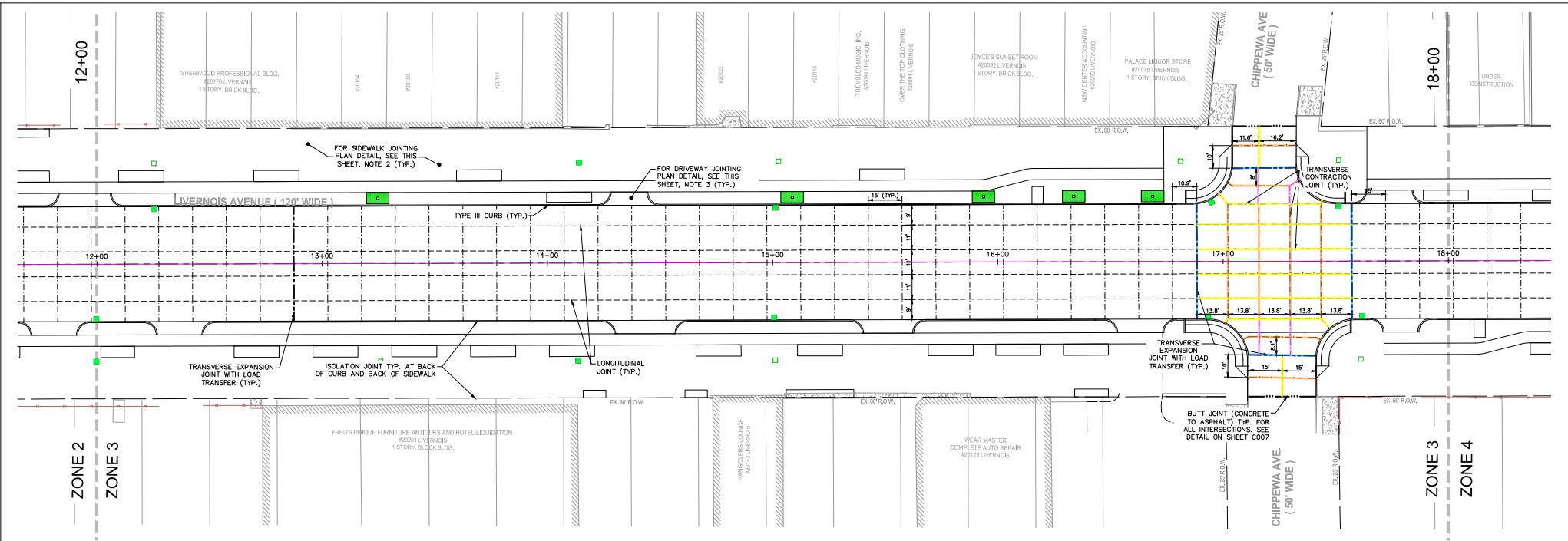
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NTH Project No.
61-470118

PROJECT

LIVERNOIS STREETSCAPE
LIVERNOIS AVENUE, DETROIT



SMM PROJECT No: 17081	REVISION		Sheet Title JOINTING PLAN STA. 6+00 TO 12+00	
	NO.	DESCRIPTION		DATE
STATUS: 100% Design			Sheet No: C552	
DATE: 28 March 2019				

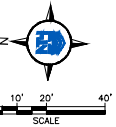


LEGEND

- PROPOSED BUTT JOINT. SEE SHEET C007 FOR DETAIL.
- EXISTING RIGHT-OF-WAY
- PROPOSED TRANSVERSE CONTRACTION JOINT
SEE CITY OF DETROIT DETAIL C-4943 DET. NO. 6 (ON SHEET C006)
- PROPOSED TRANSVERSE EXPANSION JOINT W/ LOAD TRANSFER
SEE CITY OF DETROIT DETAIL C-4943 DET. NO. 7 (ON SHEET C006)
- PROPOSED LONGITUDINAL JOINT
SEE CITY OF DETROIT DETAIL C-4943 DET. NO. 1 OR 2 (ON SHEET C006)

NOTES

- FOR JOINT DETAILS, SEE SHEETS C006-C007.
- FOR JOINTING PLAN BASED ON CITY OF DETROIT STANDARD DETAIL C-4379, "TYPICAL JOINT LAYOUT FOR NON-REINFORCED CONCRETE PAVEMENT."
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- FOR SIDEWALK JOINTING PLAN, SEE LANDSCAPE MATERIALS PLAN ON SHEETS L201-L211.
- FOR SAW CUT, CONTRACTION, AND EXPANSION JOINT DETAILS AT PROPOSED DRIVEWAY/ALLEY CONNECTIONS, SEE CITY OF DETROIT DETAIL C-4384 (DETAIL 2 ON SHEET L801).
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- JOINT SEALING IS REQUIRED AS PROVIDED IN THE JOINTING DETAILS ON SHEETS C006-C007.



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61-470118

PROJECT

LIVERNOIS STREETScape

LIVERNOIS AVENUE, DETROIT



SMM PROJECT No:

17081

STATUS:

100% Design

DATE:

28 March 2019

REVISION

NO. DESCRIPTION

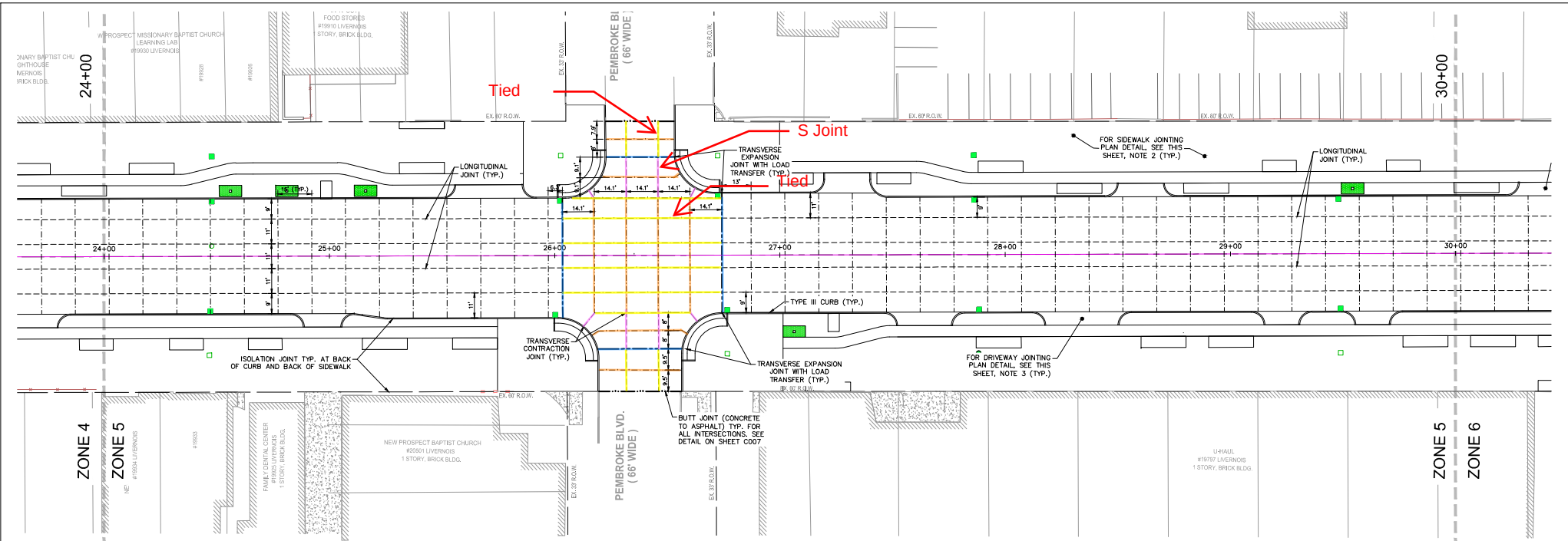
Sheet Title

JOINTING PLAN

STA. 12+00 TO 18+00

Sheet No:

C553

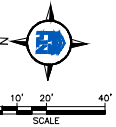


LEGEND

- PROPOSED BUTT JOINT, SEE SHEET C007 FOR DETAIL.
- EXISTING RIGHT-OF-WAY
- PROPOSED TRANSVERSE CONTRACTION JOINT
SEE CITY OF DETROIT DETAIL C-4943 DET. NO. 6 (ON SHEET C006)
- PROPOSED TRANSVERSE EXPANSION JOINT W/ LOAD TRANSFER
SEE CITY OF DETROIT DETAIL C-4943 DET. NO. 7 (ON SHEET C006)
- PROPOSED LONGITUDINAL JOINT
SEE CITY OF DETROIT DETAIL C-4943 DET. NO. 1 OR 2 (ON SHEET C006)

NOTES

1. FOR JOINT DETAILS, SEE SHEETS C006-C007.
- 1.1. JOINTING PLAN BASED ON CITY OF DETROIT STANDARD DETAIL C-4379, "TYPICAL JOINT LAYOUT FOR NON-REINFORCED CONCRETE PAVEMENT."
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6. JOINT SEALING IS REQUIRED AS PROVIDED IN THE JOINTING DETAILS ON SHEETS C006-C007.



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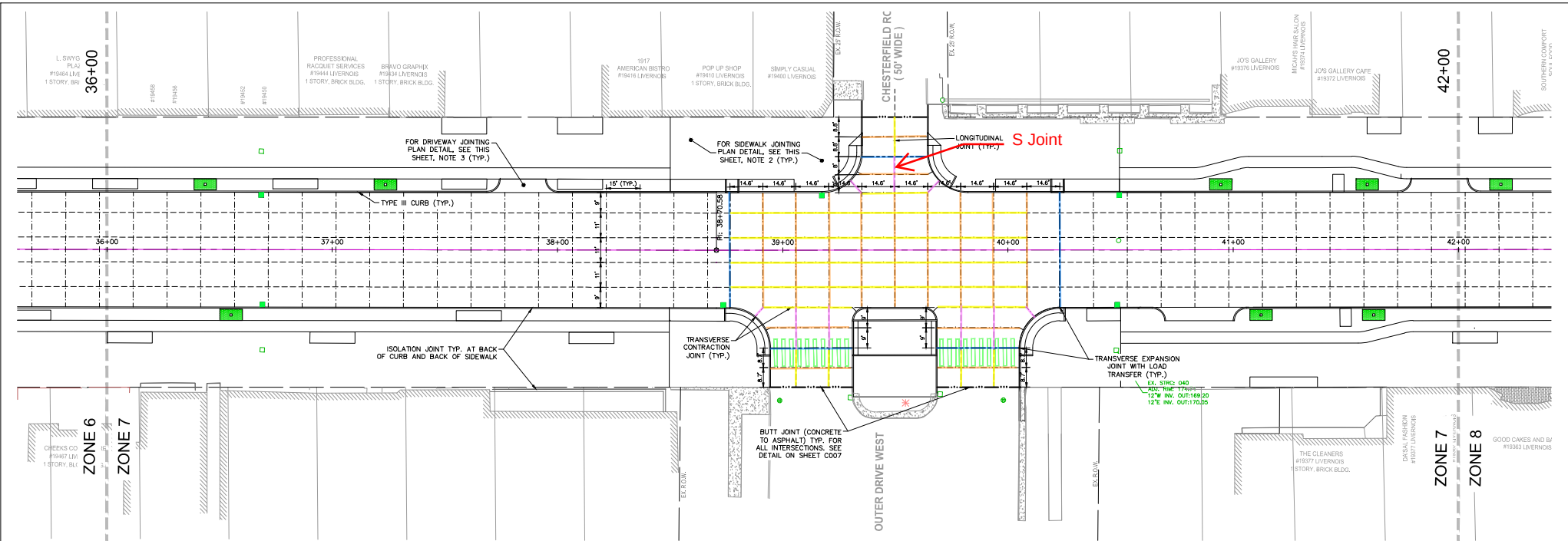
PROJECT

LIVERNOIS STREETSCAPE

LIVERNOIS AVENUE, DETROIT



SMM PROJECT No: 17081	REVISION		Sheet Title	
	NO.	DESCRIPTION		DATE
STATUS: 100% Design			JOINTING PLAN STA. 24+00 TO 30+00	
				Sheet No:
DATE: 28 March 2019			C555	



LEGEND

- PROPOSED BUTT JOINT, SEE SHEET C007 FOR DETAIL.
- EXISTING RIGHT-OF-WAY
- PROPOSED TRANSVERSE CONTRACTION JOINT
SEE CITY OF DETROIT DETAIL C-4943 DET. NO. 6 (ON SHEET C006)
- PROPOSED TRANSVERSE EXPANSION JOINT W/ LOAD TRANSFER
SEE CITY OF DETROIT DETAIL C-4943 DET. NO. 7 (ON SHEET C006)
- PROPOSED LONGITUDINAL JOINT
SEE CITY OF DETROIT DETAIL C-4943 DET. NO. 1 OR 2 (ON SHEET C006)

NOTES

1. FOR JOINT DETAILS, SEE SHEETS C006-C007.
- 1.1. JOINTING PLAN BASED ON CITY OF DETROIT STANDARD DETAIL C-4379, "TYPICAL JOINT LAYOUT FOR NON-REINFORCED CONCRETE PAVEMENT."
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3. FOR SAW CUT, CONTRACTION, AND EXPANSION JOINT DETAILS AT PROPOSED DRIVEWAY/ALLEY CONNECTIONS, SEE CITY OF DETROIT DETAIL C-4384 (DETAIL 2 ON SHEET L801).
4. LENGTH BETWEEN EXPANSION JOINTS, PER DETAIL C-4379:
 - 4.1. WHERE BLOCK LENGTH IS 600 FT. OR LESS, EXPANSION JOINTS ARE TO BE PLACED AT THE END OF BLOCKS (PC/PT) AT STREET INTERSECTIONS (NOT DRIVEWAY OR ALLEY INTERSECTIONS).
 - 4.2. WHERE BLOCK LENGTH IS OVER 600 FT., A MINIMUM NUMBER OF INTERMEDIATE EXPANSION JOINTS ARE TO BE PLACED AT EQUAL INTERVALS, NOT TO EXCEED 600 FT. APART.
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6. JOINT SEALING IS REQUIRED AS PROVIDED IN THE JOINTING DETAILS ON SHEETS C006-C007.



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NTH Project No.
61-470118

PROJECT

LIVERNOIS STREETScape
LIVERNOIS AVENUE, DETROIT



SMM PROJECT No:

17081

STATUS:

100% Design

DATE:

28 March 2019

REVISION

NO. DESCRIPTION

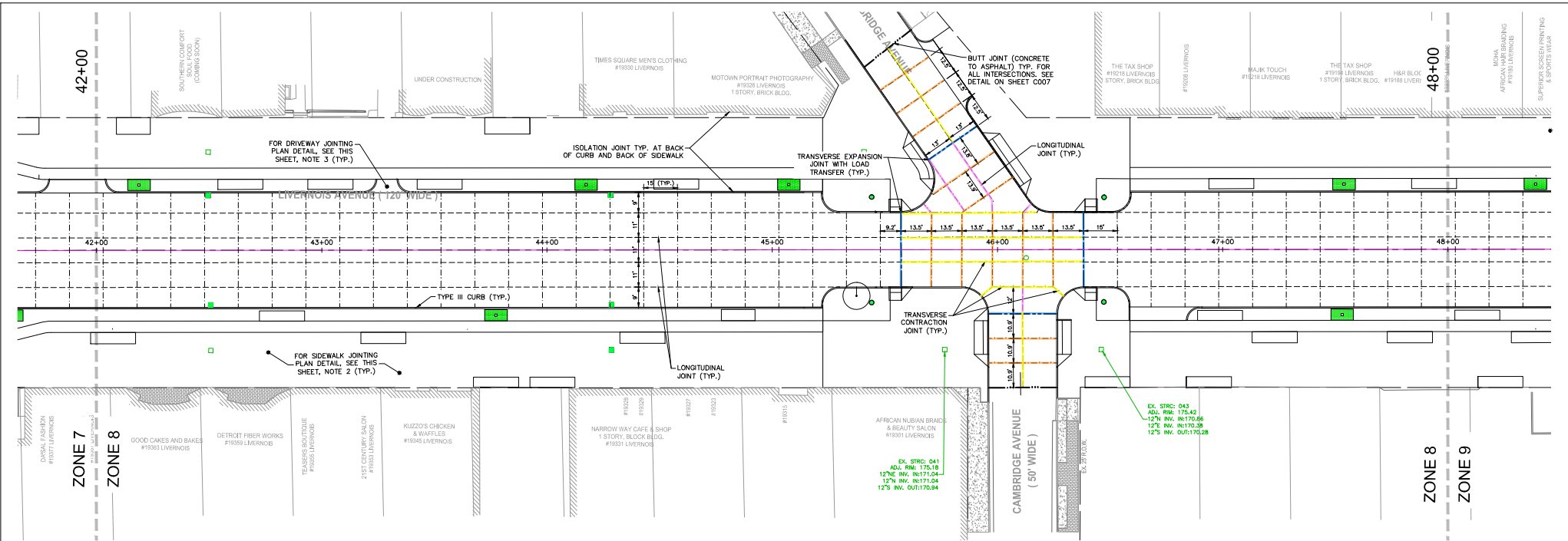
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JOINTING PLAN STA.

36+00 TO 42+00

Sheet No:

C557



LEGEND

- PROPOSED BUTT JOINT, SEE SHEET C007 FOR DETAIL.
- EXISTING RIGHT-OF-WAY
- PROPOSED TRANSVERSE CONTRACTION JOINT
SEE CITY OF DETROIT DETAIL C-4943 DET. NO. 6 (ON SHEET C006)
- PROPOSED TRANSVERSE EXPANSION JOINT W/ LOAD TRANSFER
SEE CITY OF DETROIT DETAIL C-4943 DET. NO. 7 (ON SHEET C006)
- PROPOSED LONGITUDINAL JOINT
SEE CITY OF DETROIT DETAIL C-4943 DET. NO. 1 OR 2 (ON SHEET C006)

NOTES

1. FOR JOINT DETAILS, SEE SHEETS C006-C007.
- 1.1. JOINTING PLAN BASED ON CITY OF DETROIT STANDARD DETAIL C-4379, "TYPICAL JOINT LAYOUT FOR NON-REINFORCED CONCRETE PAVEMENT."
- 1.2. CITY OF DETROIT STANDARD JOINT DETAILS, WHERE SPECIFIED, APPLY WITHOUT PAVEMENT REINFORCEMENT, SEE SHEETS C006-C007.
2. FOR SIDEWALK JOINTING PLAN, SEE LANDSCAPE MATERIALS PLAN ON SHEETS L201-L211.
3. FOR SAW CUT, CONTRACTION, AND EXPANSION JOINT DETAILS AT PROPOSED DRIVEWAY/ALLEY CONNECTIONS, SEE CITY OF DETROIT DETAIL C-4384 (DETAIL 2 ON SHEET L801).
4. LENGTH BETWEEN EXPANSION JOINTS, PER DETAIL C-4379:
 - 4.1. WHERE BLOCK LENGTH IS 600 FT. OR LESS, EXPANSION JOINTS ARE TO BE PLACED AT THE END OF CIRCLES (PC/PT) AT STREET INTERSECTIONS (NOT DRIVEWAY OR ALLEY INTERSECTIONS).
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6. JOINT SEALING IS REQUIRED AS PROVIDED IN THE JOINTING DETAILS ON SHEETS C006-C007.



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NTH Project No.
61-470118

PROJECT

LIVERNOIS STREETScape
LIVERNOIS AVENUE, DETROIT



SMM PROJECT No:
17081

STATUS:
100% Design

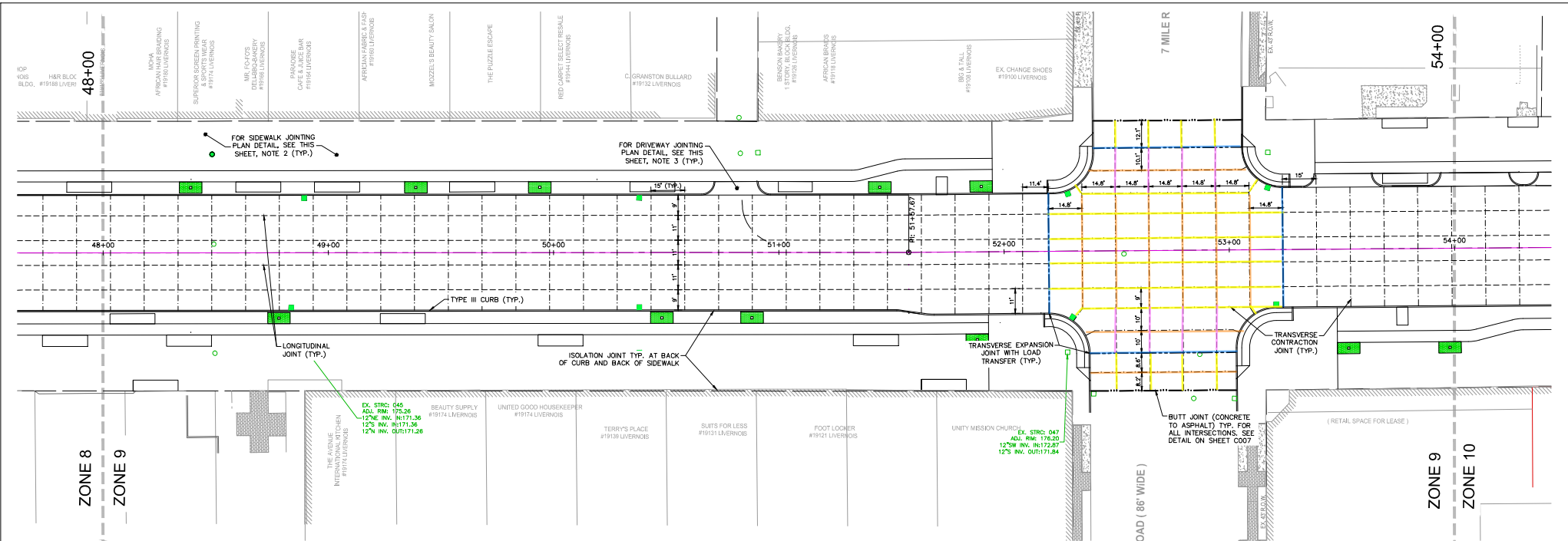
DATE:
28 March 2019

REVISION	DATE
NO. DESCRIPTION	

Sheet Title
**JOINTING PLAN STA.
42+00 TO 48+00**

Sheet No:

C558

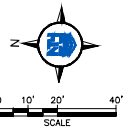


LEGEND

- PROPOSED BUTT JOINT. SEE SHEET C007 FOR DETAIL.
- EXISTING RIGHT-OF-WAY
- - - - - PROPOSED TRANSVERSE CONTRACTION JOINT
SEE CITY OF DETROIT DETAIL C-4943 DET. NO. 6 (ON SHEET C006)
- - - - - PROPOSED TRANSVERSE EXPANSION JOINT W/ LOAD TRANSFER
SEE CITY OF DETROIT DETAIL C-4943 DET. NO. 7 (ON SHEET C006)
- - - - - PROPOSED LONGITUDINAL JOINT
SEE CITY OF DETROIT DETAIL C-4943 DET. NO. 1 OR 2 (ON SHEET C006)

NOTES

1. FOR JOINT DETAILS, SEE SHEETS C006-C007.
- 1.1. JOINTING PLAN BASED ON CITY OF DETROIT STANDARD DETAIL C-4379, "TYPICAL JOINT LAYOUT FOR NON-REINFORCED CONCRETE PAVEMENT."
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NTH Project No.
61-470118

PROJECT

LIVERNOIS STREETSCAPE
LIVERNOIS AVENUE, DETROIT



SMM PROJECT No:
17081

STATUS:
100% Design

DATE:
28 March 2019

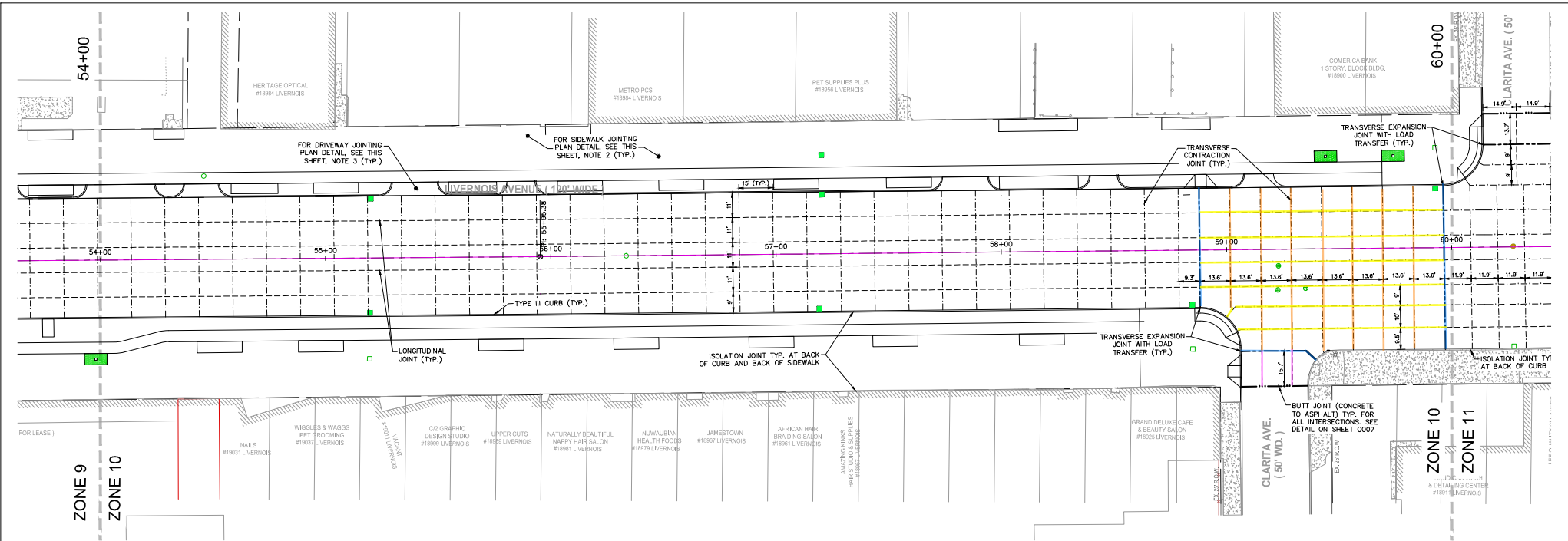
REVISION	DATE
NO. DESCRIPTION	

Sheet Title

JOINTING PLAN STA.
48+00 TO 54+00

Sheet No:

C559



LEGEND

- PROPOSED BUTT JOINT. SEE SHEET C007 FOR DETAIL.
- EXISTING RIGHT-OF-WAY
- PROPOSED TRANSVERSE CONTRACTION JOINT
SEE CITY OF DETROIT DETAIL C-4943 DET. NO. 6 (ON SHEET C006)
- PROPOSED TRANSVERSE EXPANSION JOINT W/ LOAD TRANSFER
SEE CITY OF DETROIT DETAIL C-4943 DET. NO. 7 (ON SHEET C006)
- PROPOSED LONGITUDINAL JOINT
SEE CITY OF DETROIT DETAIL C-4943 DET. NO. 1 OR 2 (ON SHEET C006)

NOTES

1. FOR JOINT DETAILS, SEE SHEETS C006-C007.
- 1.1. JOINTING PLAN BASED ON CITY OF DETROIT STANDARD DETAIL C-4379, "TYPICAL JOINT LAYOUT FOR NON-REINFORCED CONCRETE PAVEMENT."
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3. FOR SAW CUT, CONTRACTION, AND EXPANSION JOINT DETAILS AT PROPOSED DRIVEWAY/ALLEY CONNECTIONS, SEE CITY OF DETROIT DETAIL C-4384 (DETAIL 2 ON SHEET L801).
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NTH Project No.
61-470118

PROJECT

LIVERNOIS STREETScape

LIVERNOIS AVENUE, DETROIT



SMM PROJECT No:
17081

STATUS:
100% Design

DATE:
28 March 2019

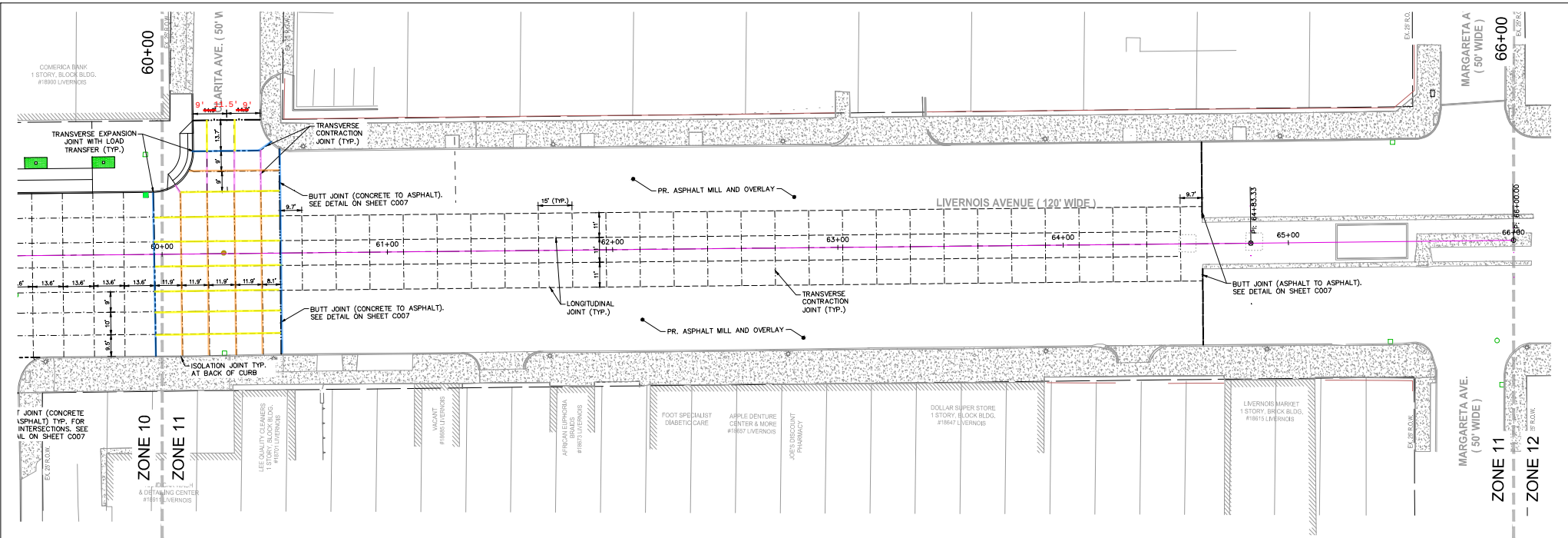
REVISION	NO.	DESCRIPTION	DATE

Sheet Title

JOINTING PLAN STA.
54+00 TP 60+00

Sheet No:

C560

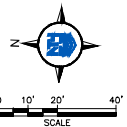


LEGEND

- PROPOSED BUTT JOINT. SEE SHEET C007 FOR DETAIL.
- EXISTING RIGHT-OF-WAY
- PROPOSED TRANSVERSE CONTRACTION JOINT
SEE CITY OF DETROIT DETAIL C-4943 DET. NO. 6 (ON SHEET C006)
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SEE CITY OF DETROIT DETAIL C-4943 DET. NO. 7 (ON SHEET C006)
- PROPOSED LONGITUDINAL JOINT
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3. FOR SAW CUT, CONTRACTION, AND EXPANSION JOINT DETAILS AT PROPOSED DRIVEWAY/ALLEY CONNECTIONS, SEE CITY OF DETROIT DETAIL C-4384 (DETAIL 2 ON SHEET L801).
4. LENGTH BETWEEN EXPANSION JOINTS, PER DETAIL C-4379:
 - 4.1. WHERE BLOCK LENGTH IS 600 FT. OR LESS, EXPANSION JOINTS ARE TO BE PLACED AT THE END OF CIRCLES (PC/PT) AT STREET INTERSECTIONS (NOT DRIVEWAY OR ALLEY INTERSECTIONS).
 - 4.2. WHERE BLOCK LENGTH IS OVER 600 FT., A MINIMUM NUMBER OF INTERMEDIATE EXPANSION JOINTS ARE TO BE PLACED AT EQUAL INTERVALS, NOT TO EXCEED 600 FT. APART.
5. LONGITUDINAL JOINTS SHOWN SHALL BE EITHER CITY OF DETROIT DETAIL C-4943, DET. NO. 1, "LONGITUDINAL LANE TIE JOINT" OR CITY OF DETROIT DETAIL C-4943, DET. NO. 2, "LONGITUDINAL BULKHEAD CONSTRUCTION JOINT" DEPENDING ON PAVEMENT OPERATIONS AT TIME OF CONSTRUCTION. CONTRACTOR PAVING OPERATIONS TO DICTATE THE TYPE OF LONGITUDINAL LANE TIE JOINTS, PRIOR TO CONSTRUCTION, CONTRACTOR SHALL REVIEW JOINTING PLAN WITH OWNER AND ENGINEER FOR ANY IMPLEMENTATION CONCERNS OR DEVIATIONS.
6. JOINT SEALING IS REQUIRED AS PROVIDED IN THE JOINTING DETAILS ON SHEETS C006-C007.



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PROJECT

LIVERNOIS STREETSCAPE

LIVERNOIS AVENUE, DETROIT



SMM PROJECT No: 17081	REVISION		DATE	Sheet Title JOINTING PLAN STA. 60+00 TO 66+00
	NO.	DESCRIPTION		
STATUS: 100% Design				Sheet No:
DATE: 28 March 2019				C561