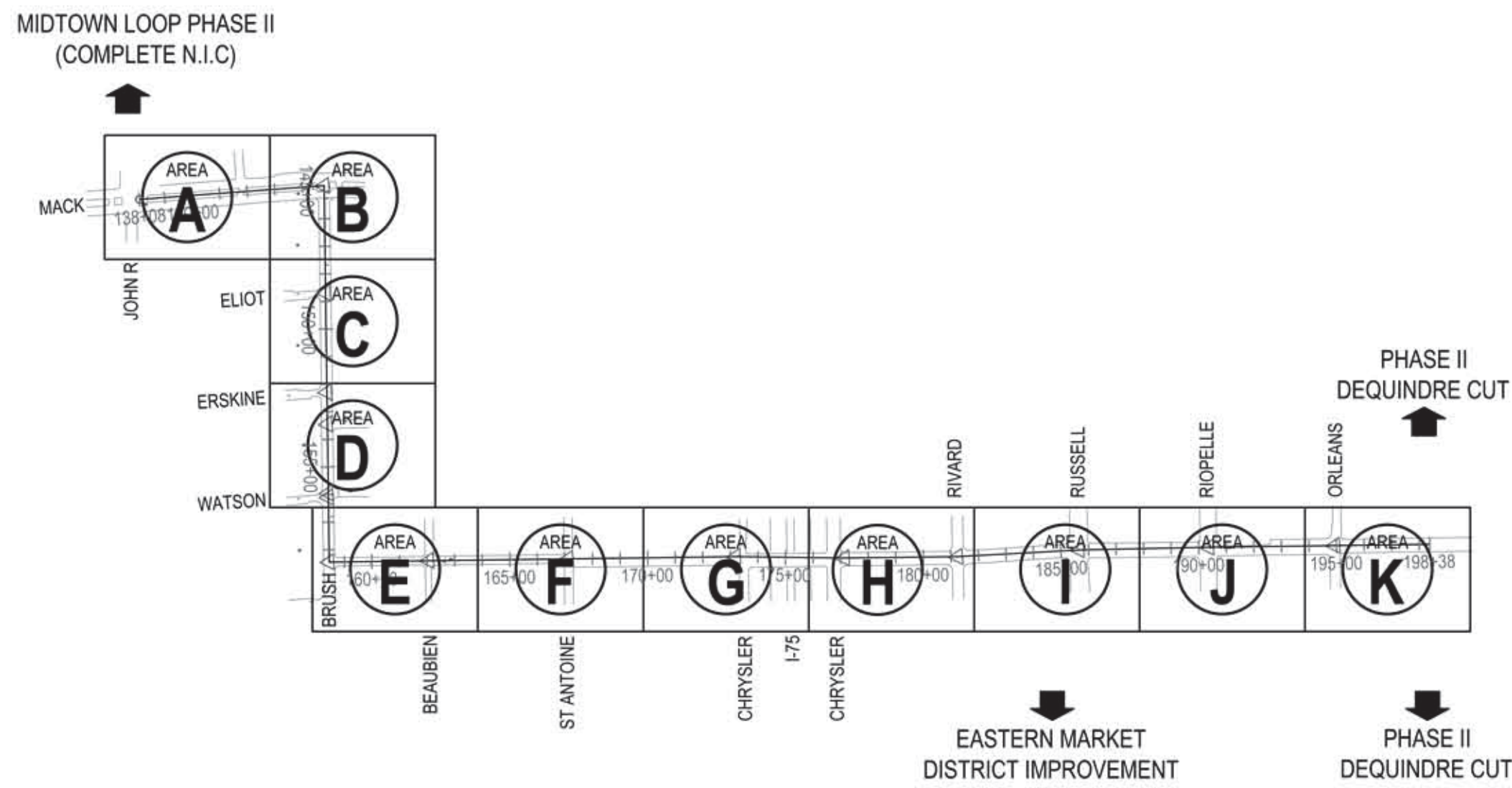


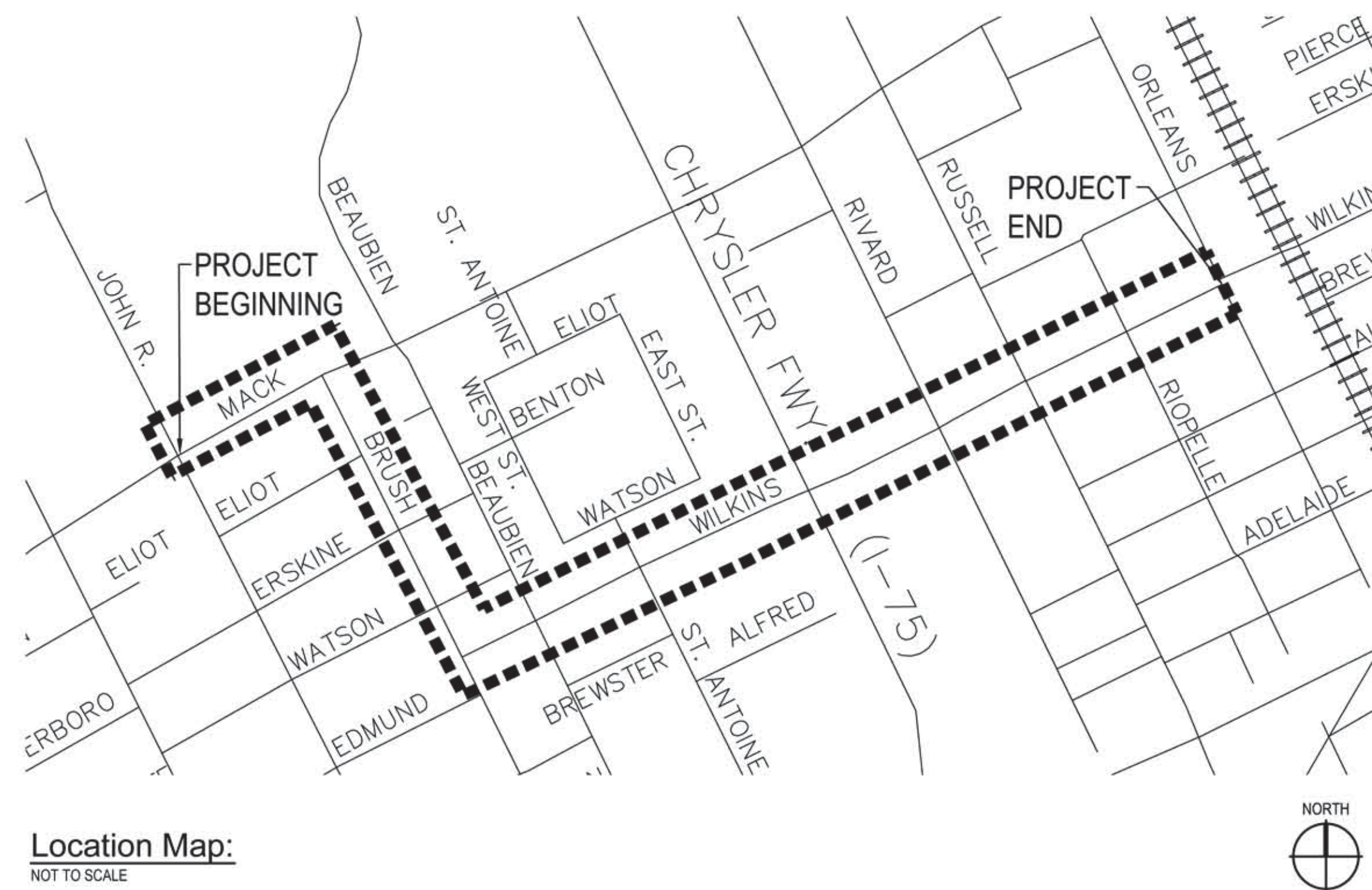
CITY OF DETROIT  
DEPARTMENT OF PUBLIC WORKS  
IN COOPERATION WITH  
MICHIGAN DEPARTMENT OF TRANSPORTATION  
AND  
FEDERAL HIGHWAY ADMINISTRATION

# MIDTOWN LOOP - PHASE IV

DETROIT, MICHIGAN / WAYNE COUNTY



Site Map:  
NOT TO SCALE



Location Map:  
NOT TO SCALE



**LOCAL AUTHORITY APPROVAL**

CITY OF DETROIT  
CITY ENGINEERING DIVISION  
DEPARTMENT OF PUBLIC WORKS  
900 CADILLAC TOWER  
DETROIT, MICHIGAN 48226

**Project Description: (1.1 Mile/5658.9 Feet Project Length and 7.9 Acres in Project Area)**

The Midtown Loop will be a 3.5 mile urban greenway that will connect existing campuses and institutions, including Wayne State University and the Detroit Medical Center, to greenway initiatives in surrounding areas, providing a key component of a larger greenway network, linking New Center to Downtown and the River. Phase IV will follow existing urban street patterns, specifically Mack, Brush, and Wilkins streets to Dequindre Cut. Phase IV construction will occur along Mack (from John R to Brush), Brush (from Mack to Wilkins), and Wilkins (from Brush to Orleans).

**Owners:**



Midtown Detroit Inc.



City of Detroit

**Consultants:**



201 DEPOT STREET  
SECOND FLOOR  
ANN ARBOR, MI 48104  
734.662.4457  
www.smithgroupjir.com



11970 DIAMOND LANE  
WASHINGTON, MI 48091  
586.615.4893 T; 586.677.5876 F  
www.graberllc.com

**Utility Providers:**

FOR A COMPLETE LIST OF UTILITY PROVIDERS AND CONTACT INFORMATION SEE GENERAL NOTES, SHEET G1.0.

**Drawing Scale:**

ORIGINAL DRAWINGS PREPARED AS 24X36 SHEETS. GRAPHIC SCALES SHOWN ON SHEETS SHALL TAKE PRECEDENCE OVER ANY OTHER NOTED SCALES.

**Drawing List:**

M-G0.0-M-G0.7	COVER, SHEET INDEX, KEY PLAN, MDOT QUANTITIES, TYPICAL SECTIONS, AND HORIZONTAL ALIGNMENT PLAN
M-G1.1-M-G1.2	MAINTENANCE OF TRAFFIC PLANS
M-V1.0-M-V1.13	SURVEY
M-D1.1-M-D1.12	DEMOLITION AND EROSION CONTROL PLANS
M-C1.1-M-C1.11	PAVING AND MATERIALS PLANS
M-C2.1-M-C2.14	LAYOUT PLANS
M-C3.1-M-C3.14	JOINTING AND CONCRETE THICKNESS PLANS
M-C4.1-M-C4.11	SIGNAGE AND STRIPING PLANS
M-C5.1-M-C5.5	SITE DETAILS
M-C6.1-M-C6.14	GRADING PLANS
M-C7.1-M-C7.18	UTILITY PLANS, DETAILS AND PROFILES
M-L1.2-M-L1.12	LANDSCAPE PLANS AND DETAILS
M-I1.1-M-I1.13	IRRIGATION PLANS AND DETAILS
M-E1.1-M-E1.30	ELECTRICAL AND WIRING PLANS AND DETAILS

**Submittal: Date: Revision:**

50% CONSTRUCTION DOCUMENTS	NOVEMBER 5, 2012	0
80% CONSTRUCTION DOCUMENTS	JANUARY 7, 2013	1
GRADE INSPECTION	JANUARY 30, 2013	2
100% CONSTRUCTION DOCUMENTS	APRIL 1, 2013	3
BIDDING DOCUMENTS	MAY 2, 2013	4
BIDDING DOCUMENTS	MAY 21, 2013	5



**MIDTOWN LOOP - PHASE IV**

PREPARED UNDER SUPERVISION OF

MARK E. LODEWYK  
NO 27599  
REGISTRATION NUMBER

PREPARED UNDER SUPERVISION OF

MICHAEL J. WENGARTZ  
NO 37821  
REGISTRATION NUMBER

Midtown Loop Phase IV

Midtown Loop Detroit, Michigan



Owners:



City of Detroit



Midtown Detroit, Inc.

SMITHGROUP JJR

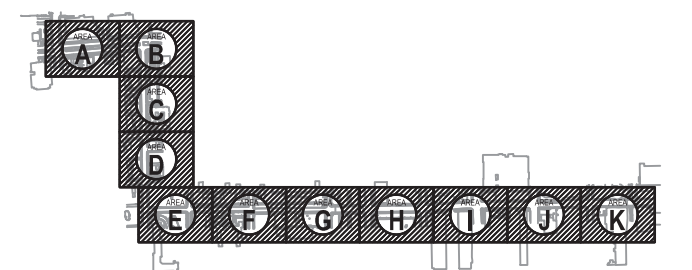
201 DEPOT STREET SECOND FLOOR ANN ARBOR, MI 48104 734.662.4457 www.smithgroupjjr.com

ISSUED FOR REV DATE

Table with 3 columns: Issued For, Rev, Date. Rows include BIDDING DOCUMENTS, 100% CONSTRUCTION DOCUMENTS, GRADE INSPECTION, 80% CONSTRUCTION DOCUMENTS, 50% CONSTRUCTION DOCUMENTS.

SEALS AND SIGNATURES

KEY PLAN



DRAWING TITLE MDOT QUANTITIES

GRAPHIC SCALE TAKES PRECEDENCE FULL SIZE SCALE (24x36) N/A 24708.003

PROJECT NUMBER M-GO.3

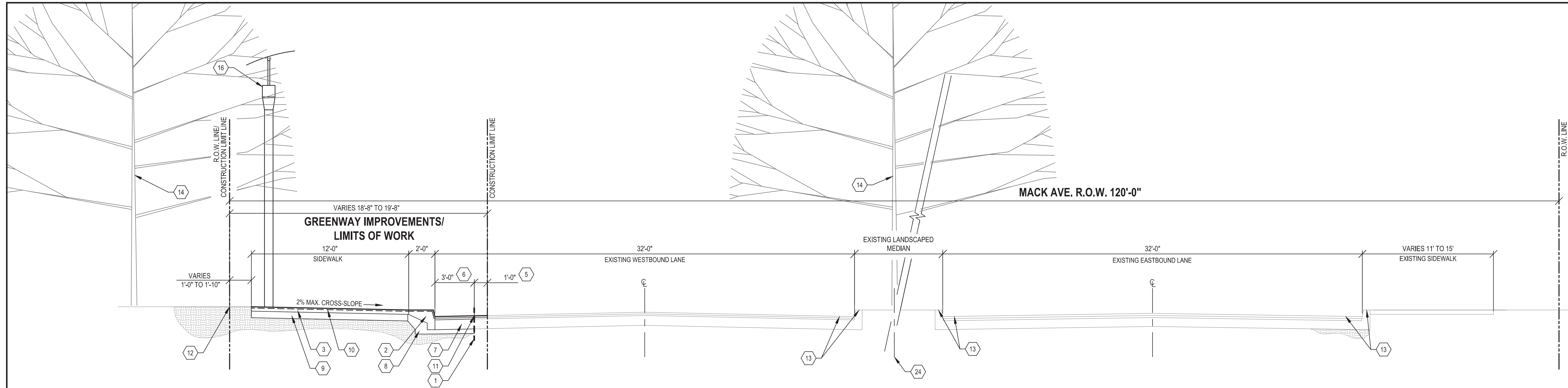
DRAWING NUMBER 210 of 497



Main quantity table with columns: Item Description, Units, Midtown Loop Ph IV Drawing Number (##.1-##.11), Midtown Loop Ph IV Total (Category 0001), HUD/EDI Grant. Includes sections for SITE PREPARATION, UNDERGROUND UTILITY WORK, and SITE AND HARDSCAPE IMPROVEMENTS.

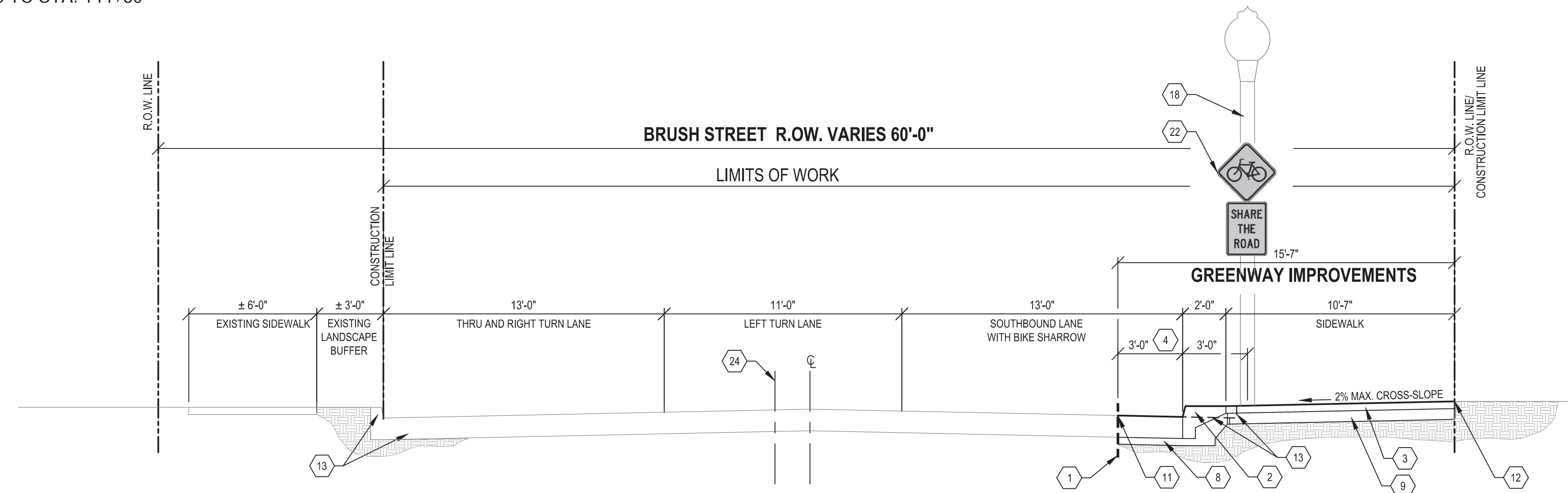
Main quantity table with columns: Item Description, Units, Midtown Loop Ph IV Drawing Number (##.1-##.11), Midtown Loop Ph IV Total (Category 0001), HUD/EDI Grant. Includes sections for PEDESTRIAN LIGHTING, SITE FURNISHINGS AND LANDSCAPING, and various plant and material items.

FILE: P:\24708\003\Phase-IV\CA01\Sheet\24708-004-GENR-SHT.dwg USER: jyoung DATE: May 21 2013 TIME: 04:35 pm



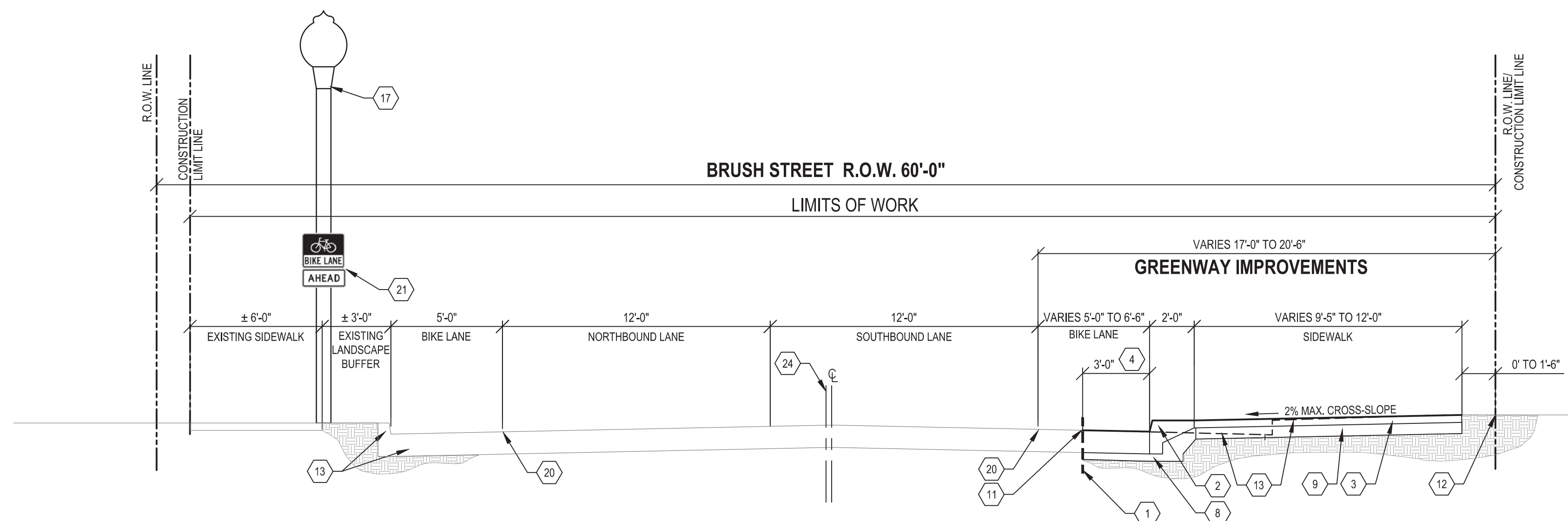
1 TYPICAL ROAD SECTION - MACK AVENUE  
STA. 138+70 TO STA. 144+80

SCALE 1"=4'-0"



2 TYPICAL ROAD SECTION - BRUSH STREET  
STA. 145+25 TO STA. 147+40

SCALE 1"=4'-0"



3 TYPICAL ROAD SECTION - BRUSH STREET  
STA. 147+40 TO STA. 158+45

SCALE 1"=4'-0"

KEY NOTES FOR TYPICAL SECTIONS

- 1 SAWCUT, FULL DEPTH
- 2 \_INTEGRAL CURB AND SIDEWALK, 2 FOOT, MODIFIED
- 3 \_SIDEWALK, CONC., \_MODIFIED
- 4 \_CONC PAVT, MISC, 9 INCH, REINF, MODIFIED
- 5 COLD MILLING HMA SURFACE (REPLACE WITH 1-1/2" HAND PATCHING)
- 6 HAND PATCHING (TWO COURSES: 1-1/2" HMA, 4E3, BASE COURSE, 1-1/2" HMA, 4E3, WEARING COURSE) WITH \_CONC, PAVT, MISC, 9 INCH, REINF, MODIFIED)
- 7 \_CONC, BASE PAVT, 9 INCH, MODIFIED
- 8 AGGREGATE BASE, 21AA
- 9 GRANULAR MATERIAL, CL II
- 10 EXISTING GRADE
- 11 MEET EXISTING GRADE ELEVATION AT SAWCUT LINE
- 12 MEET EXISTING GRADE ELEVATION AT RIGHT-OF-WAY LINE.
- 13 EXISTING CURB AND ROADWAY
- 14 EXISTING TREES AND LANDSCAPE
- 15 EXISTING LIGHT
- 16 \_FIXTURE TYPE M1 (REFER TO ELECTRICAL PLANS)
- 17 \_FIXTURE TYPE M2, PLD (REFER TO ELECTRICAL PLANS)
- 18 \_FIXTURE TYPE M2, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)
- 19 \_BENCH, TYPE M
- 20 BIKE LANE PAVEMENT MARKING
- 21 SIGN, TYPE III B (R3-17 AND R3-17AP)
- 22 SIGN, TYPE III B (W11-1 AND W16-1)
- 23 SIGN, TYPE III B (R7-1)
- 24 HORIZONTAL ALIGNMENT

NOTE:  
FOR HORIZONTAL ALIGNMENT WITH PROJECT STATIONS, SEE HORIZONTAL ALIGNMENT PLAN, SHEET M-G0.7

Midtown Loop  
Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



Midtown Detroit, Inc.

SMITHGROUP JJR

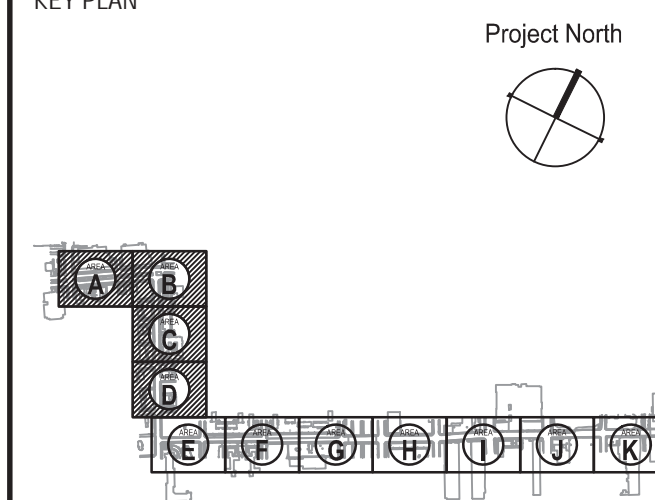
201 DEPOT STREET  
SECOND FLOOR  
ANN ARBOR, MI 48104  
734.662.4457  
www.smithgroupjjr.com

ISSUED FOR	REV	DATE
BIDDING DOCUMENTS	5	MAY 21, 2013
BIDDING DOCUMENTS	4	MAY 02, 2013
100% CONSTRUCTION DOCUMENTS	3	APR 01, 2013
GRADE INSPECTION	2	JAN 30, 2013
80% CONSTRUCTION DOCUMENTS	1	JAN 07, 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05, 2012

SEALS AND SIGNATURES

KEY PLAN

Project North



DRAWING TITLE

TYPICAL SECTIONS 1

GRAPHIC SCALE  
TAKES PRECEDENCE  
FULL SIZE SCALE (24x36)  
0 2'-0" 4'-0" 8'-0"  
1" = 4'-0"

PROJECT NUMBER

24708.003

DRAWING NUMBER

M-G0.4



3 WORKING DAYS  
BEFORE YOU DIG  
CALL MISS DIG  
1-800-482-7171

# Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



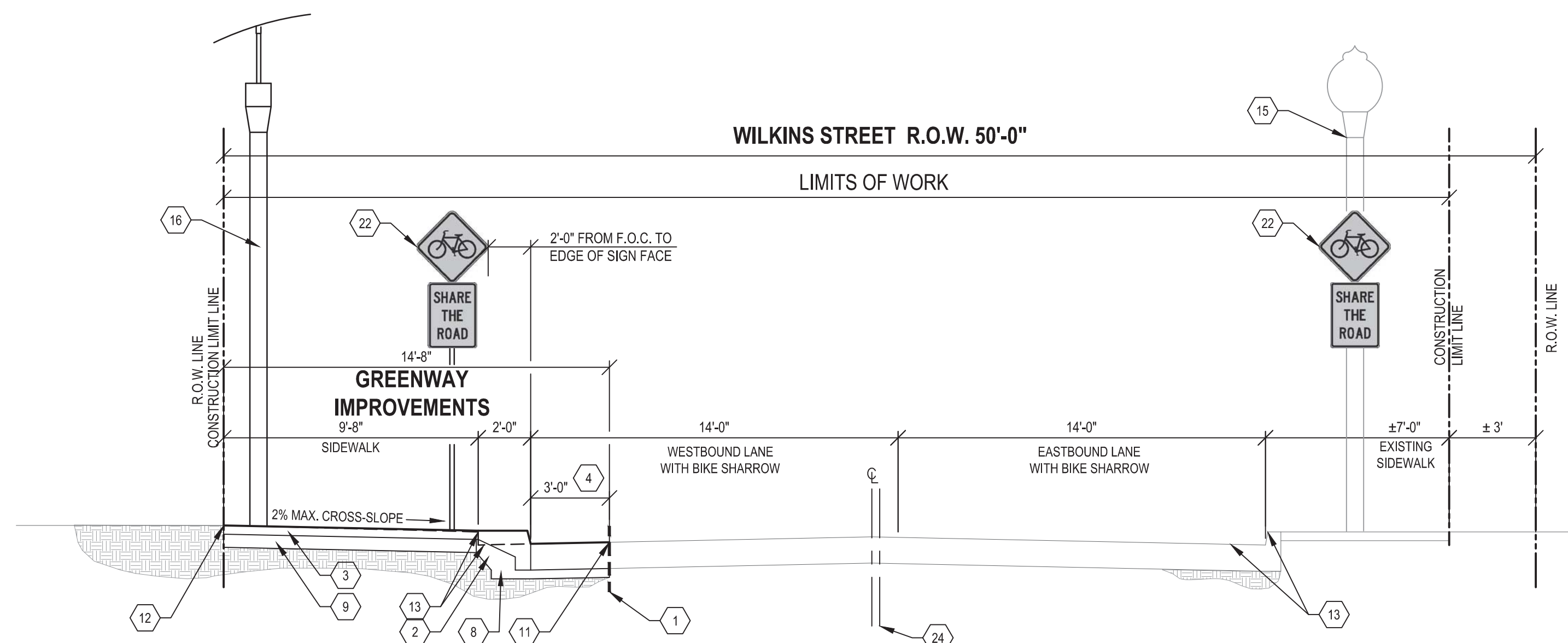
City of Detroit



Midtown Detroit, Inc.

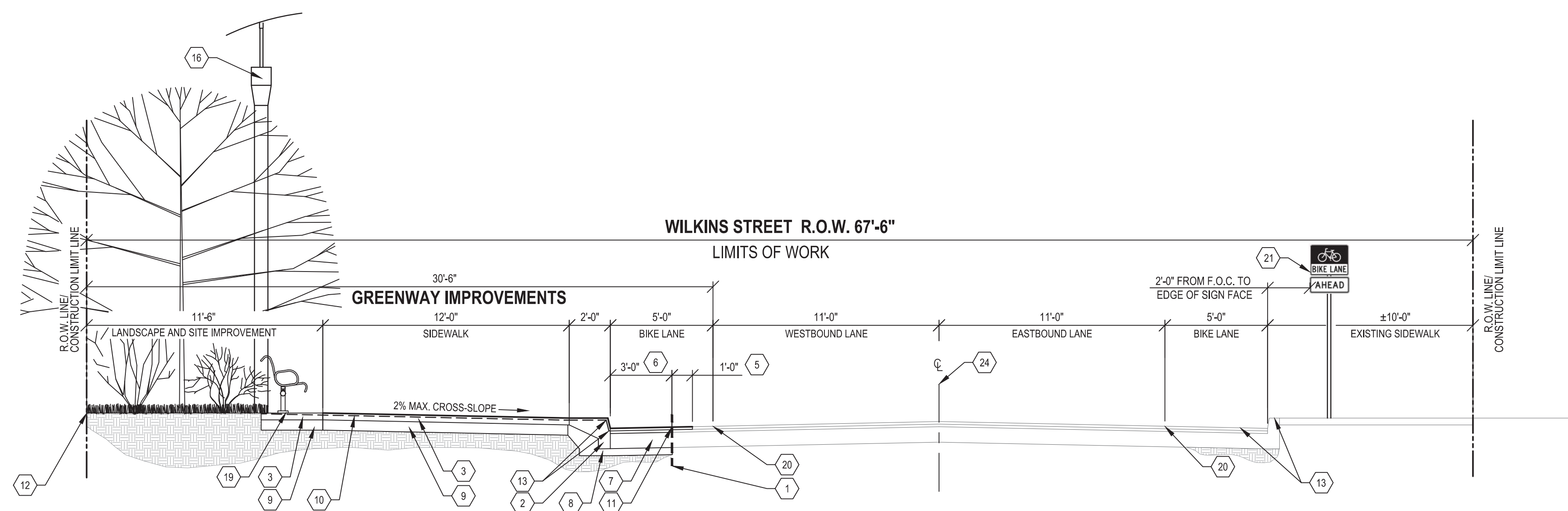
## SMITHGROUP JJR

201 DEPOT STREET  
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ANN ARBOR, MI 48104  
734.662.4457  
www.smithgroupjjr.com



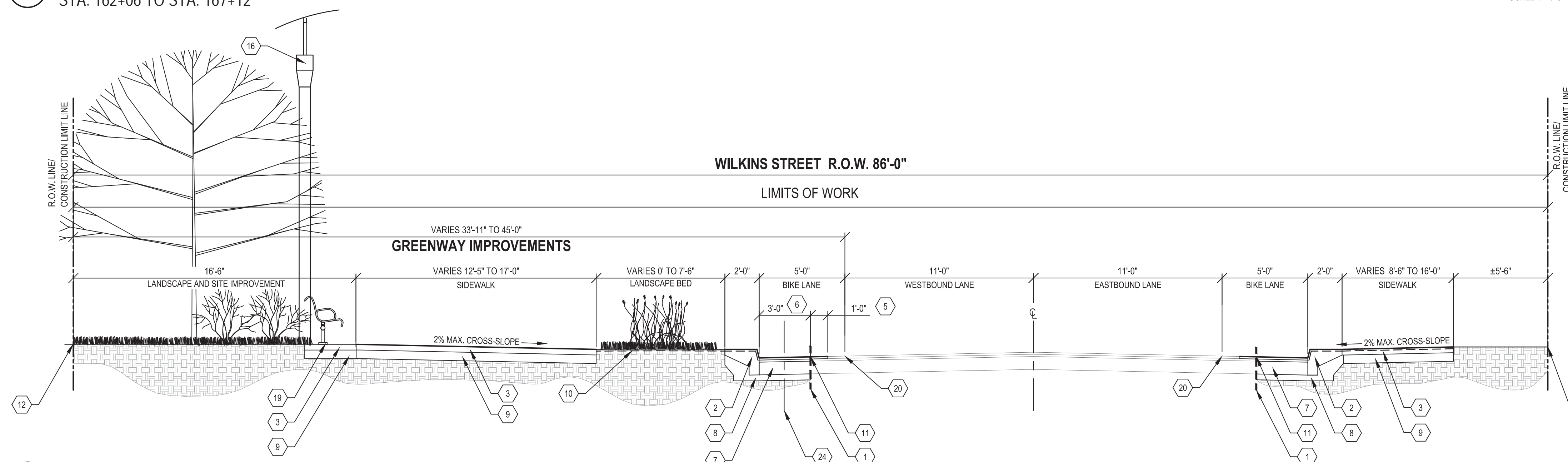
1 TYPICAL ROAD SECTION - WILKINS STREET WEST OF BEAUBIEN STREET  
STA. 158+45 TO STA. 162+06

SCALE 1"=4'-0"



2 TYPICAL ROAD SECTION - WILKINS STREET  
STA. 162+06 TO STA. 167+12

SCALE 1"=4'-0"



3 TYPICAL ROAD SECTION - WILKINS STREET  
STA. 167+12 TO STA. 168+40

SCALE 1"=4'-0"

### KEY NOTES FOR TYPICAL SECTIONS

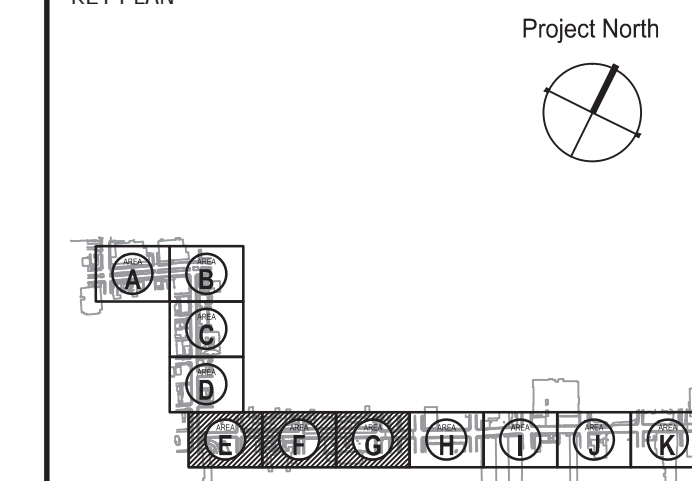
- 1 SAWCUT, FULL DEPTH
- 2 INTEGRAL CURB AND SIDEWALK, 2 FOOT, MODIFIED
- 3 SIDEWALK, CONC, MODIFIED
- 4 CONC PAVT, MISC, 9 INCH, REINF, MODIFIED
- 5 COLD MILLING HMA SURFACE (REPLACE WITH 1 1/2" HAND PATCHING)
- 6 HAND PATCHING (TWO COURSES: 1-1/2" HMA, 4E3, BASE COURSE, 1-1/2" HMA, 4E3, WEARING COURSE) WITH CONC, PAVT, MISC, 9 INCH, REINF, MODIFIED
- 7 CONC, BASE PAVT, 9 INCH, MODIFIED
- 8 AGGREGATE BASE, 21AA
- 9 GRANULAR MATERIAL, CL II
- 10 EXISTING GRADE
- 11 MEET EXISTING GRADE ELEVATION AT SAWCUT LINE
- 12 MEET EXISTING GRADE ELEVATION AT RIGHT-OF-WAY LINE
- 13 EXISTING CURB AND ROADWAY
- 14 EXISTING TREES AND LANDSCAPE
- 15 EXISTING LIGHT
- 16 FIXTURE TYPE M1 (REFER TO ELECTRICAL PLANS)
- 17 FIXTURE TYPE M2, PLD (REFER TO ELECTRICAL PLANS)
- 18 FIXTURE TYPE M2, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)
- 19 BENCH, TYPE M
- 20 BIKE LANE PAVEMENT MARKING
- 21 SIGN, TYPE III B (R3-17 AND R3-17AP)
- 22 SIGN, TYPE III B (W11-1 AND W16-1)
- 23 SIGN, TYPE III B (R7-1)
- 24 HORIZONTAL ALIGNMENT

NOTE:  
FOR HORIZONTAL ALIGNMENT WITH PROJECT STATIONS, SEE HORIZONTAL ALIGNMENT PLAN, SHEET M-G0.7

ISSUED FOR	REV	DATE
BIDDING DOCUMENTS	5	MAY 21, 2013
BIDDING DOCUMENTS	4	MAY 02, 2013
100% CONSTRUCTION DOCUMENTS	3	APR 01, 2013
GRADE INSPECTION	2	JAN 30, 2013
80% CONSTRUCTION DOCUMENTS	1	JAN 07, 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05, 2012

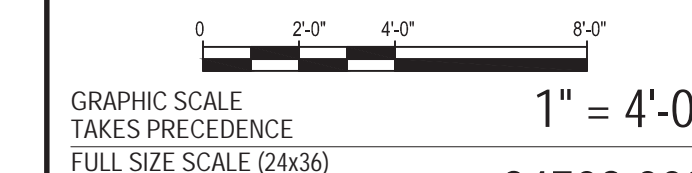
### SEALS AND SIGNATURES

### KEY PLAN



### DRAWING TITLE

## TYPICAL SECTIONS 2



PROJECT NUMBER  
**M-G0.5**

DRAWING NUMBER  
212 of 497



FILE: P:\24708\003\Phase-IV\CAD\Sheet\24708-004-SECT-SHT.dwg USER: jyoung DATE: May, 21, 2013 TIME: 04:36 pm

# Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



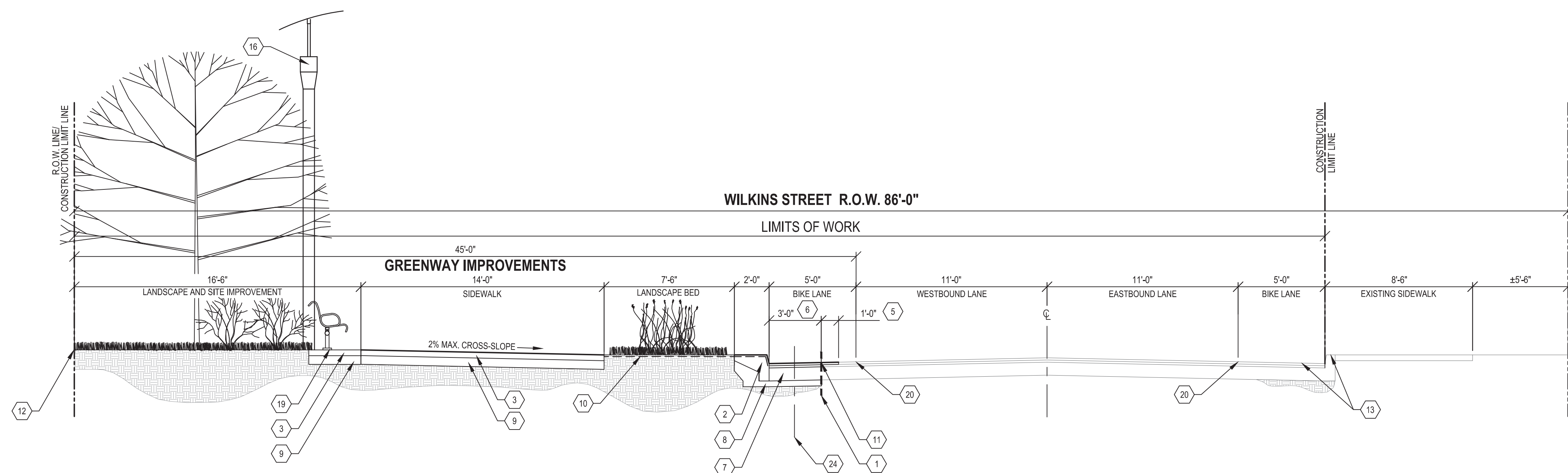
City of Detroit



Midtown Detroit, Inc.

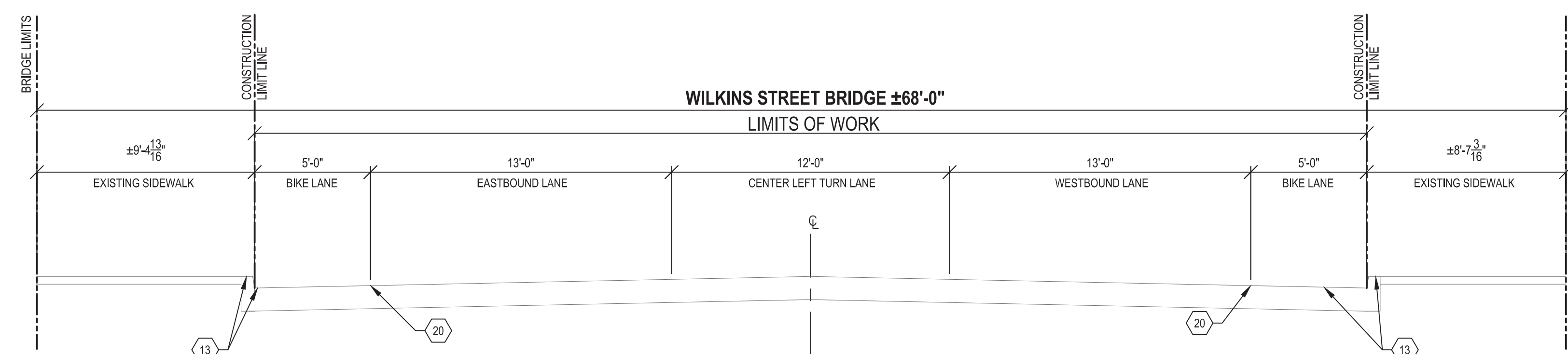
## SMITHGROUP JJR

201 DEPOT STREET  
SECOND FLOOR  
ANN ARBOR, MI 48104  
734.662.4457  
www.smithgroupjjr.com



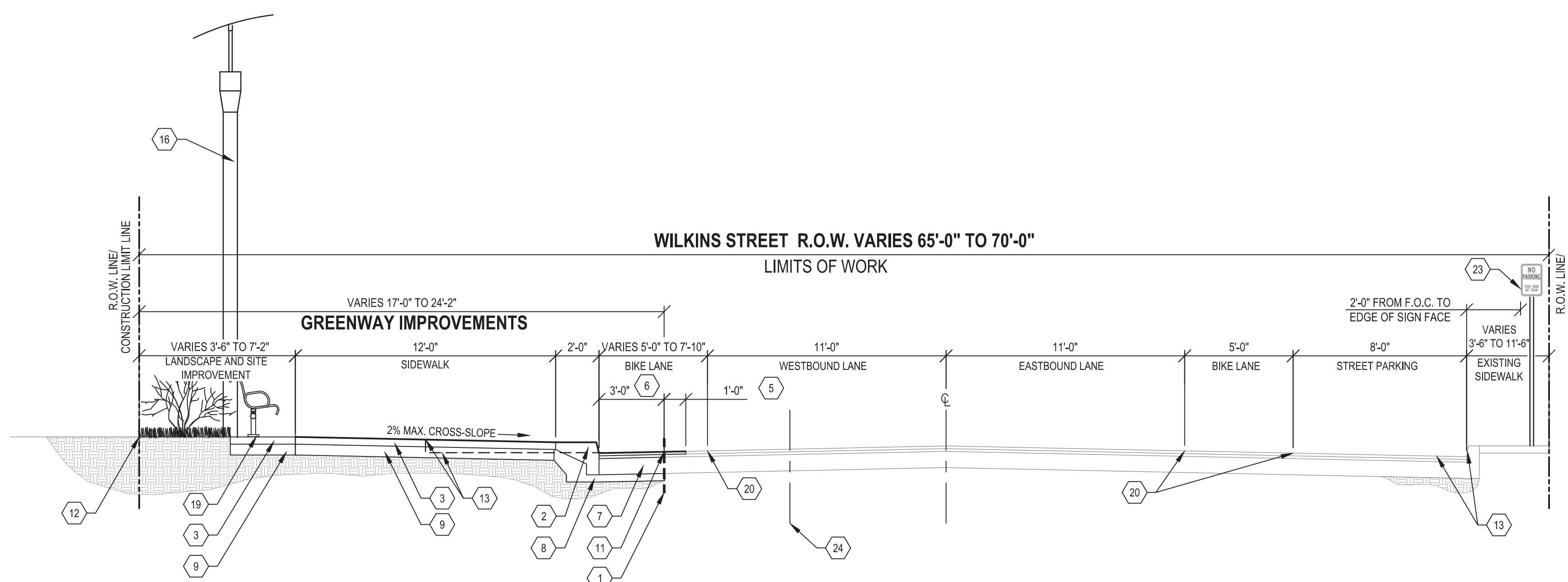
1 TYPICAL ROAD SECTION - WILKINS STREET  
STA. 168+40 TO STA. 173+50

SCALE 1"=4'-0"



2 TYPICAL ROAD SECTION - WILKINS STREET (I-75 BRIDGE)  
STA. 173+50 TO STA. 177+14

SCALE 1"=4'-0"



3 TYPICAL ROAD SECTION - WILKINS STREET EAST OF I-75 BRIDGE  
STA. 177+14 TO STA. 194+94

SCALE 1"=4'-0"

### KEY NOTES FOR TYPICAL SECTIONS

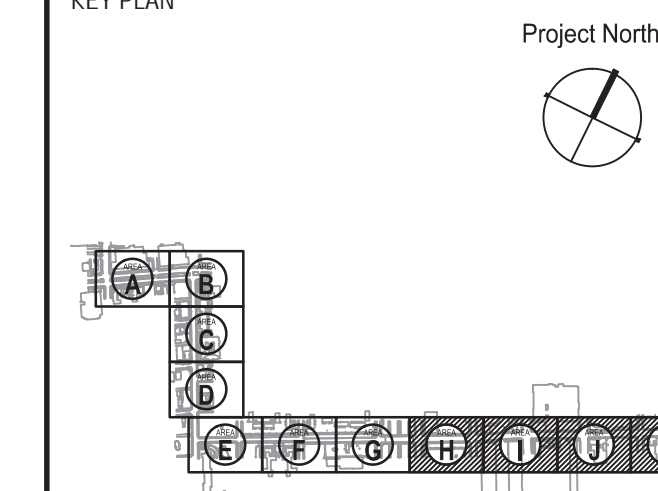
- 1 SAWCUT, FULL DEPTH
- 2 INTEGRAL CURB AND SIDEWALK, 2 FOOT, MODIFIED (M-C5.2)
- 3 SIDEWALK, CONC., MODIFIED (M-C5.1)
- 4 CONC PAVT, MISC, 9 INCH, REINF, MODIFIED (M-C5.3)
- 5 COLD MILLING HMA SURFACE (REPLACE WITH 1-1/2" HAND PATCHING)
- 6 HAND PATCHING (TWO COURSES: 1-1/2" HMA, 4E3, BASE COURSE; 1-1/2" HMA, 4E3, WEARING COURSE) WITH CONC, PAVT, MISC, 9 INCH, REINF, MODIFIED (M-C5.3)
- 7 CONC, BASE PAVT, 9 INCH, MODIFIED
- 8 AGGREGATE BASE, 21AA
- 9 GRANULAR MATERIAL, CL II
- 10 EXISTING GRADE
- 11 MEET EXISTING GRADE ELEVATION AT SAWCUT LINE
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- 16 FIXTURE TYPE M1 (REFER TO ELECTRICAL PLANS)
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- 18 FIXTURE TYPE M2, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)
- 19 BENCH, TYPE M (M-C5.4)
- 20 BIKE LANE PAVEMENT MARKING
- 21 SIGN, TYPE III B (R3-17 AND R3-17AP)
- 22 SIGN, TYPE III B (W11-1 AND W16-1)
- 23 SIGN, TYPE III B (R7-1)
- 24 HORIZONTAL ALIGNMENT

NOTE:  
FOR HORIZONTAL ALIGNMENT WITH PROJECT STATIONS, SEE HORIZONTAL ALIGNMENT PLAN, SHEET M-G0.7

ISSUED FOR	REV	DATE
BIDDING DOCUMENTS	5	MAY 21, 2013
100% CONSTRUCTION DOCUMENTS	4	MAY 02, 2013
80% CONSTRUCTION DOCUMENTS	3	APR 01, 2013
50% CONSTRUCTION DOCUMENTS	2	JAN 30, 2013
	1	JAN 07, 2013
	0	NOV 05, 2012

SEALS AND SIGNATURES

KEY PLAN



DRAWING TITLE

TYPICAL SECTIONS 3

GRAPHIC SCALE  
TAKES PRECEDENCE  
FULL SIZE SCALE (24x36)  
1" = 4'-0"  
24708.003

PROJECT NUMBER

M-G0.6

DRAWING NUMBER

213 of 497

FILE: P:\24708\003\Phase-IV\CAD\Sheet\24708-004-SECT-SHT.dwg USER: jyoung DATE: May, 21, 2013 TIME: 04:36 pm



# HORIZONTAL ALIGNMENT PLAN - MIDTOWN LOOP PHASE IV

## PART OF PRIVATE CLAIM 8 & 17, 90, CITY OF DETROIT, WAYNE COUNTY, MICHIGAN

Midtown Loop  
Phase IV  
Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



Midtown Detroit, Inc.

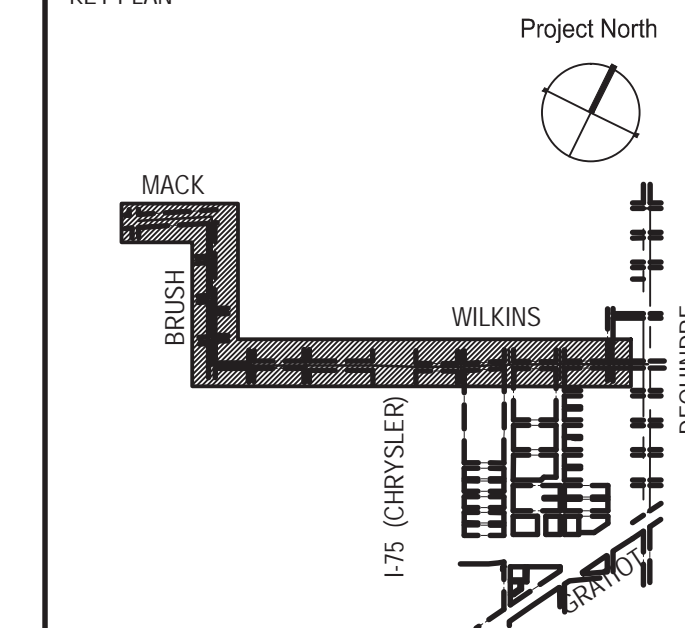
**SMITHGROUP JJR**

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SECOND FLOOR  
ANN ARBOR, MI 48104  
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50% CONSTRUCTION DOCUMENTS	0	NOV 05, 2012

SEALS AND SIGNATURES

KEY PLAN



DRAWING TITLE

**HORIZONTAL ALIGNMENT PLAN**

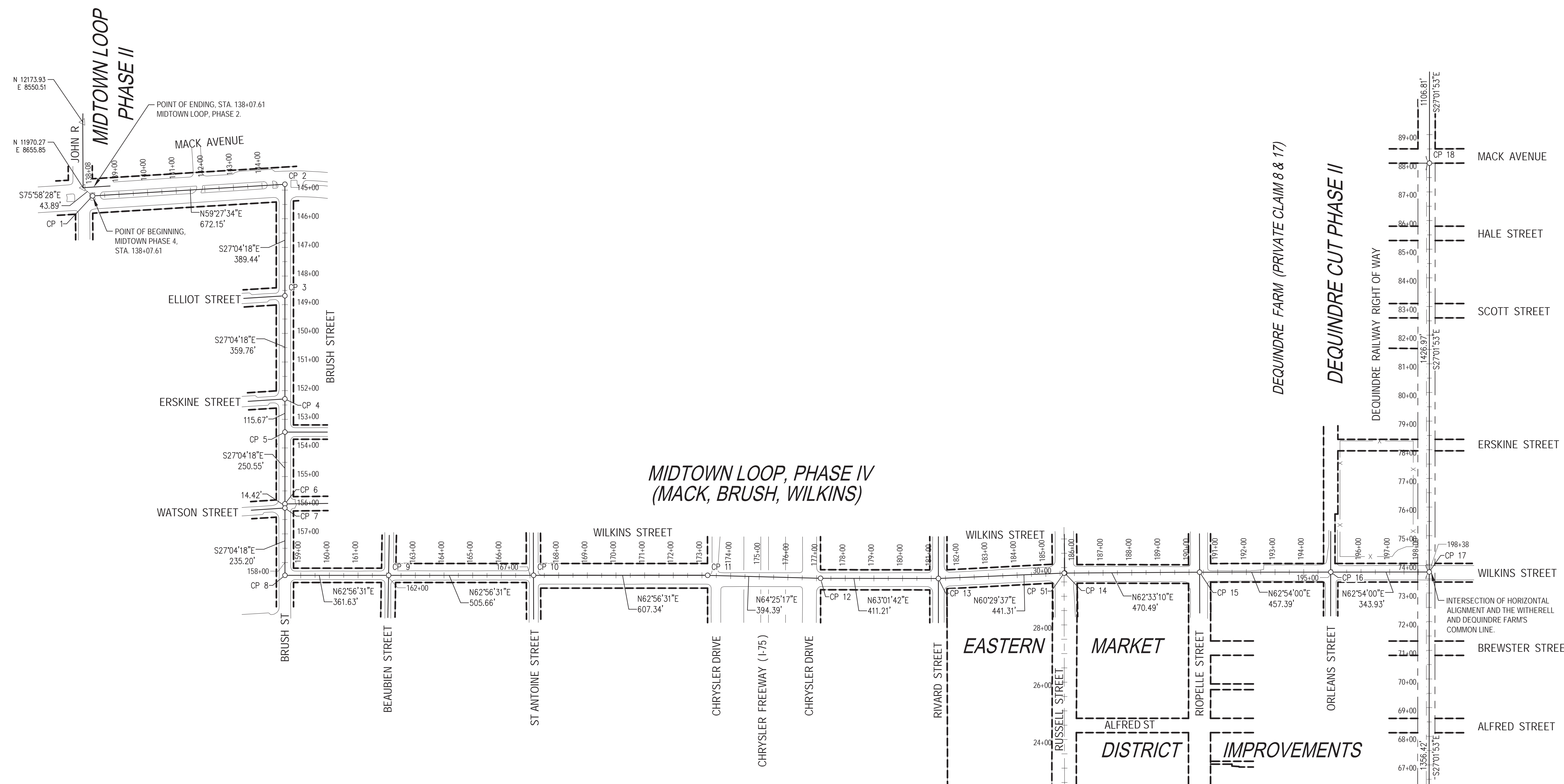
GRAPHIC SCALE  
TAKES PRECEDENCE  
FULL SIZE SCALE (24x36)  
1"=200'  
24708.003

PROJECT NUMBER

**M-GO.7**

DRAWING NUMBER

214 of 497



Point Number	Northing	Eastng
CP 1	11959.63	8698.43
CP 2	12301.18	9277.34
CP 3	11954.42	9454.57
CP 4	11634.07	9618.30
CP 5	11531.07	9670.94
CP 6	11307.98	9784.97
CP 7	11295.14	9791.53
CP 8	11085.71	9898.57
CP 9	11250.22	10220.62
CP 10	11480.23	10670.93
CP 11	11756.51	11211.79
CP 12	11926.79	11567.53
CP 13	12113.29	11934.02
CP 14	12330.65	12318.09
CP 15	12547.51	12735.62
CP 16	12755.87	13142.79
CP 17	12912.55	13448.96
CP 50	12541.48	12207.29
CP 51	12329.52	12316.10

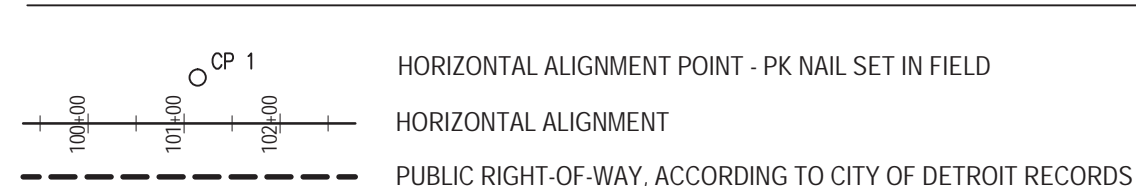
### VERTICAL BENCHMARKS

- 39-253 - BRASS DISC IN MONUMENT BOX; NL CHESTNUT STREET AT CTRL OF DEQUINDRE RR (BRIDGE DECK)  
ELEVATION = 138.51 FEET (CITY OF DETROIT DATUM)
- 39-252A - BRASS DISC IN MONUMENT BOX; NL WILKINS STREET AT EL ST AUBIN STREET  
ELEVATION = 143.77 (CITY OF DETROIT DATUM)
- 40-253 - BRASS DISC IN MONUMENT BOX; NL ALEXANDRINE AT EL ST AUBIN STREET  
ELEVATION = 145.19 FEET (CITY OF DETROIT DATUM)
- 29-255A - BRASS DISC IN MONUMENT BOX; NL EDMUND PLACE AT EL JOHN R.  
ELEVATION = 136.52 FEET (CITY OF DETROIT DATUM)

### NOTES

- FIELD MONUMENTS SET AT LOCATIONS INDICATED HEREON, ALONG WITH WITNESSES PROVIDED FOR MONUMENT LOCATION RECOVERY.

### SURVEY LEGEND



- CONTROL POINT 1 - PK NAIL IN ROAD
  - N28W 46.7 FEET - LIGHT POLE ON NORTHEAST CORNER OF MACK AVE AND JOHN R. STREET
  - N72W 8.9 FEET - LIGHT POLE IN MEDIAN
  - S77E 5.0 FEET - LIGHT POLE IN MEDIAN
  - S31E 48.0 FEET - LIGHT POLE ON SOUTHEAST CORNER OF MACK AVE AND JOHN R. STREET
- CONTROL POINT 2 - PK NAIL IN ROAD
  - N13W 50.7 FEET - LIGHT POLE ON NORTH SIDE OF WESTBOUND MACK AVE
  - N52E 14.3 FEET - LIGHT POLE IN MEDIAN
  - S57W 46.0 FEET - LIGHT POLE IN MEDIAN
  - S53E 61.8 FEET - LIGHT POLE ON SOUTHEAST CORNER OF MACK AVE AND BRUSH STREET
- CONTROL POINT 3 - PK NAIL IN ROAD
  - N10W 12.7 FEET - CENTER OF MANHOLE
  - N61W 41.1 FEET - LIGHT POLE ON NORTH CORNER OF ELIOT AND BRUSH STREET
  - S34W 49.1 FEET - LIGHT POLE ON SOUTH SIDE OF ELIOT AND BRUSH STREET
  - S56E 45.3 FEET - LIGHT POLE ON EAST SIDE OF BRUSH STREET
- CONTROL POINT 4 - PK NAIL IN ROAD
  - N04E 43.2 FEET - LIGHT POLE ON EAST SIDE OF BRUSH STREET
  - N44W 12.2 FEET - CENTER OF MANHOLE
  - S04W 45.8 FEET - LIGHT POLE ON WEST SIDE OF BRUSH STREET
  - N89E 23.6 FEET - LIGHT POLE ON EAST SIDE OF BRUSH STREET
- CONTROL POINT 5 - PK NAIL IN ROAD
  - N03E 44.6 FEET - LIGHT POLE ON NORTHEAST CORNER OF ERSKINE AND BRUSH STREET
  - N36W 35.7 FEET - CENTER OF MANHOLE
  - S85E 35.0 FEET - LIGHT POLE ON THE SOUTHEAST CORNER OF ERSKINE AND BRUSH STREET
  - S03W 44.9 FEET - LIGHT POLE ON WEST SIDE OF BRUSH STREET
- CONTROL POINT 6 - PK NAIL IN ROAD
  - N11E 36.6 FEET - LIGHT POLE ON EAST SIDE OF BRUSH STREET
  - S87W 8.9 FEET - CENTER OF MANHOLE
  - S19W 52.9 FEET - LIGHT POLE ON SOUTHWEST CORNER OF WATSON AND BRUSH STREET
  - N88E 26.0 FEET - CENTER OF STEAM MANHOLE
- CONTROL POINT 7 - PK NAIL IN ROAD
  - N56E 23.6 FEET - CENTER OF STEAM MANHOLE
  - N48W 44.1 FEET - CENTER OF MANHOLE
  - S33W 44.6 FEET - SOUTHEAST CORNER OF WATSON AND BRUSH STREET
  - S02E 53.9 FEET - LIGHT POLE ON WEST SIDE OF BRUSH STREET
- CONTROL POINT 8 - PK NAIL IN ROAD
  - N12W 49.8 FEET - CENTER OF MANHOLE
  - N69W 33.7 FEET - LIGHT POLE ON WEST SIDE OF BRUSH STREET
  - S62W 25.0 FEET - CENTER OF COMMUNICATION MANHOLE
  - S69E 37.7 FEET - LIGHT POLE ON SOUTHEAST CORNER OF WILKINS AND BRUSH STREET
- CONTROL POINT 9 - PK NAIL IN ROAD
  - N05E 24.7 FEET - CENTER OF MANHOLE
  - N59W 30.6 FEET - UTILITY POLE ON NORTHWEST CORNER OF BEAUBIEN AND WILKINS STREET
  - S29W 40.9 FEET - UTILITY POLE ON SOUTH SIDE OF WILKINS STREET
  - N70E 17.3 FEET - CENTER OF MANHOLE

- CONTROL POINT 10 - PK NAIL IN ROAD
  - N05E 38.7 FEET - UTILITY POLE ON EAST SIDE OF ANTOINE STREET
  - S82W 54.1 FEET - UTILITY POLE ON NORTH SIDE OF WILKINS STREET
  - S12W 33.3 FEET - SOUTHWEST CORNER OF ANTOINE AND WILKINS STREET
  - S52E 43.6 FEET - UTILITY POLE ON SOUTHEAST CORNER OF ANTOINE AND WILKINS STREET
- CONTROL POINT 11 - PK NAIL IN ROAD
  - N54W 4.1 FEET - LIGHT POLE ON NORTH SIDE OF WILKINS STREET
  - N52E 33.8 FEET - CENTER OF MANHOLE
  - S37E 53.4 FEET - LIGHT POLE ON WEST SIDE OF CHRYSLER FREEWAY SERVICE DRIVE (SOUTH)
  - S14W 44.6 FEET - UTILITY POLE ON SOUTH SIDE OF WILKINS STREET
- CONTROL POINT 12 - PK NAIL IN ROAD
  - N22E 29.7 FEET - CURB INLET ON NORTH SIDE OF WILKINS STREET
  - S78W 79.2 FEET - LIGHT POLE ON NORTH SIDE OF WILKINS STREET
  - S47E 54.9 FEET - LIGHT POLE ON SOUTH SIDE OF WILKINS STREET
  - S25W 92.5 FEET - LIGHT POLE ON WEST SIDE OF CHRYSLER FREEWAY SERVICE DRIVE (NORTH)
- CONTROL POINT 13 - PK NAIL IN ROAD
  - N55W 47.0 FEET - LIGHT POLE ON NORTHWEST CORNER OF RIVARD AND WILKINS STREET
  - S81W 70.1 FEET - LIGHT POLE ON NORTH SIDE OF WILKINS STREET
  - S02E 52.7 FEET - LIGHT POLE ON SOUTHWEST CORNER OF RIVARD AND WILKINS STREET
  - N84E 73.9 FEET - LIGHT POLE ON SOUTH SIDE OF WILKINS STREET
- CONTROL POINT 14 - PK NAIL IN ROAD
  - N15E 44.5 FEET - CURB INLET ON EAST SIDE OF RUSSEL STREET
  - N50W 51.3 FEET - CURB INLET ON WEST SIDE OF RUSSEL STREET
  - S08W 63.8 FEET - UTILITY POLE ON WEST SIDE OF RUSSEL STREET
  - N85E 84.6 FEET - SOUTH SIDE OF WILKINS STREET, EAST OF RUSSEL
- CONTROL POINT 15 - PK NAIL IN ROAD
  - N26E 38.0 FEET - FIRE HYDRANT ON EAST SIDE OF RIOPELLE STREET
  - N68W 51.4 FEET - UTILITY POLE ON WEST SIDE OF RIOPELLE STREET
  - S07W 54.7 FEET - CATCH BASIN ON SOUTHWEST CORNER OF RIOPELLE AND WILKINS STREET
  - S64E 50.4 FEET - UTILITY POLE ON SOUTHEAST CORNER OF RIOPELLE AND WILKINS STREET
- CONTROL POINT 16 - PK NAIL IN ROAD
  - N02W 73.11 FEET - UTILITY POLE ON EAST SIDE OF ORLEANS STREET
  - N55W 33.4 FEET - CATCH BASIN ON NORTHWEST CORNER OF ORLEANS AND WILKINS STREET
  - S53W 17.0 FEET - CENTER OF MANHOLE
  - S52W 74.2 FEET - UTILITY POLE ON SOUTHWEST CORNER OF ORLEANS AND WILKINS STREET
- CONTROL POINT 17 - (LOCATED ON BRIDGE DECK AND BELOW)
  - N70E 79.7 FEET - CENTER OF MANHOLE
  - N81E 99.0 FEET - UTILITY POLE ON SOUTH SIDE OF WILKINS ON BRIDGE DECK
  - S84E 58.87 FEET - CENTER OF MANHOLE
  - S52W 74.2 FEET - CENTER OF MANHOLE
- BELOW BRIDGE DECK - CAPPED IRON ROD
  - N31E 47.9 FEET - NORTHEAST CORNER OF BRIDGE
  - S73E 58.8 FEET - SOUTHEAST CORNER OF BRIDGE
  - S17W 58.23 FEET - SOUTHWEST CORNER OF BRIDGE
  - N84W 47.57 FEET - NORTHWEST CORNER OF BRIDGE

# Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



Midtown Detroit, Inc.

## SMITHGROUP JJR

201 DEPOT STREET  
SECOND FLOOR  
ANN ARBOR, MI 48104  
734.662.4457  
www.smithgroupjjr.com

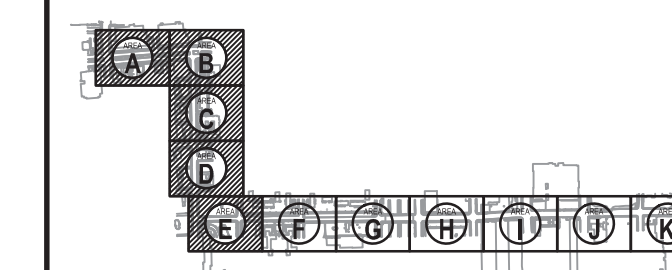
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BIDDING DOCUMENTS	5	MAY 21, 2013
BIDDING DOCUMENTS	4	MAY 02, 2013
100% CONSTRUCTION DOCUMENTS	3	APR 01, 2013
GRADE INSPECTION	2	JAN 30, 2013
80% CONSTRUCTION DOCUMENTS	1	JAN 07, 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05, 2012

SEALS AND SIGNATURES

KEY PLAN

Project North



DRAWING TITLE  
**MAINTENANCE OF  
TRAFFIC PLANS - AREA A  
TO E**

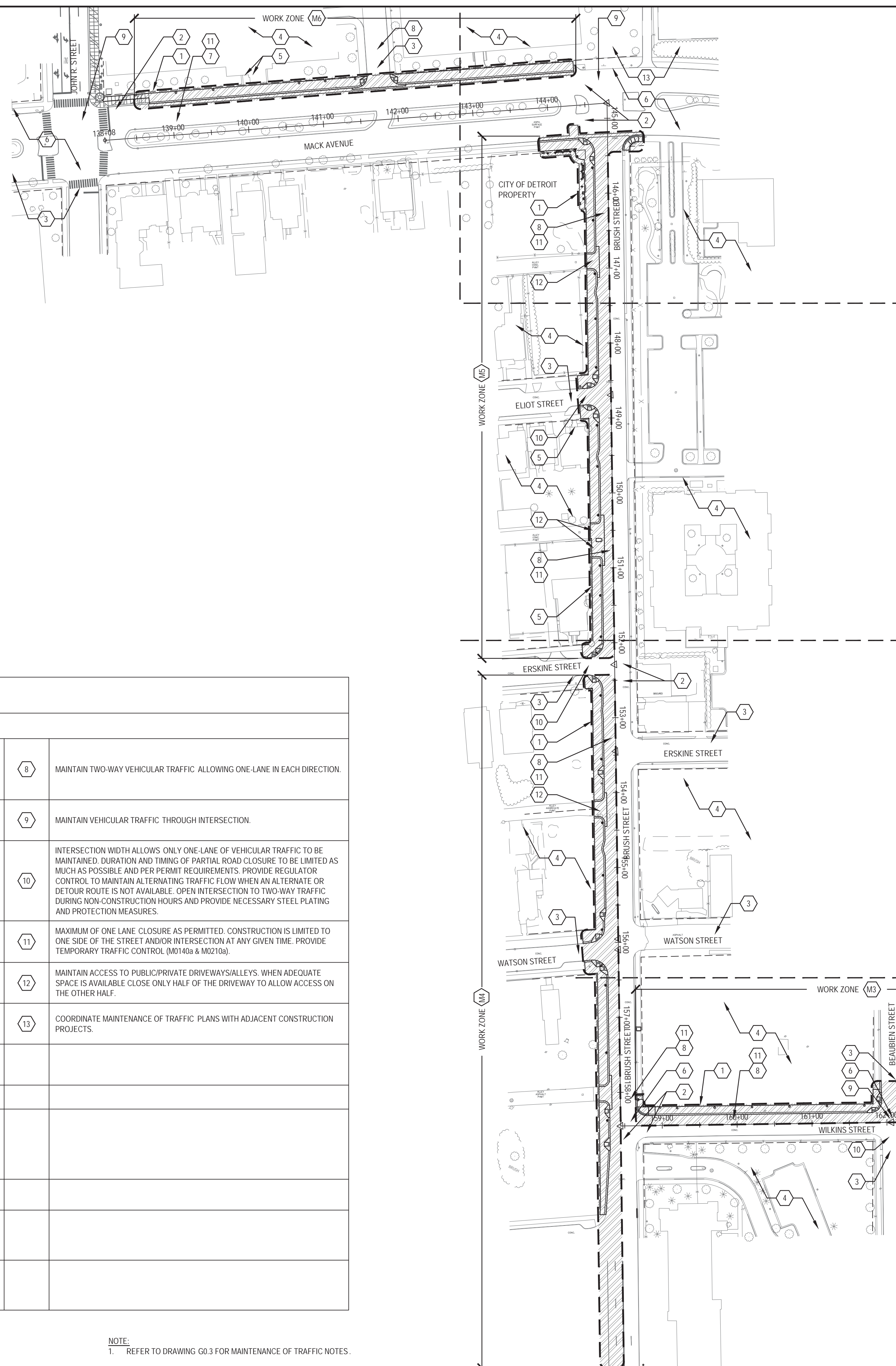
GRAPHIC SCALE  
TAKES PRECEDENCE  
FULL SIZE SCALE (24x36)  
1"=80'-0"  
24708.003

PROJECT NUMBER

**M-G1.1**

DRAWING NUMBER

215 of 497



QTY	UNIT	ITEM DESCRIPTION
2	LS	Minor Traf Devices
40	Ea	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn
40	Ea	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper
1	LS	Traffic Regulator Control
1750	Ft	Pavt Mrkg, Type R, 4 inch, Temp, Yellow
1750	Ft	Pavt Mrkg, Type R, 4 inch, Temp, White
6	Ea	Lighted Arrow, Type C, Furn
6	Ea	Lighted Arrow, Type C, Oper
400	Ea	Plastic Drum, High Intensity, Furn
400	Ea	Plastic Drum, High Intensity, Oper
3000	Sft	Sign, Type B, Temp, Prismatic, Special, Furn
3000	Sft	Sign, Type B, Temp, Prismatic, Special, Oper
1	LS	Audio-Visual Filming
1	LS	Mobilization, Max

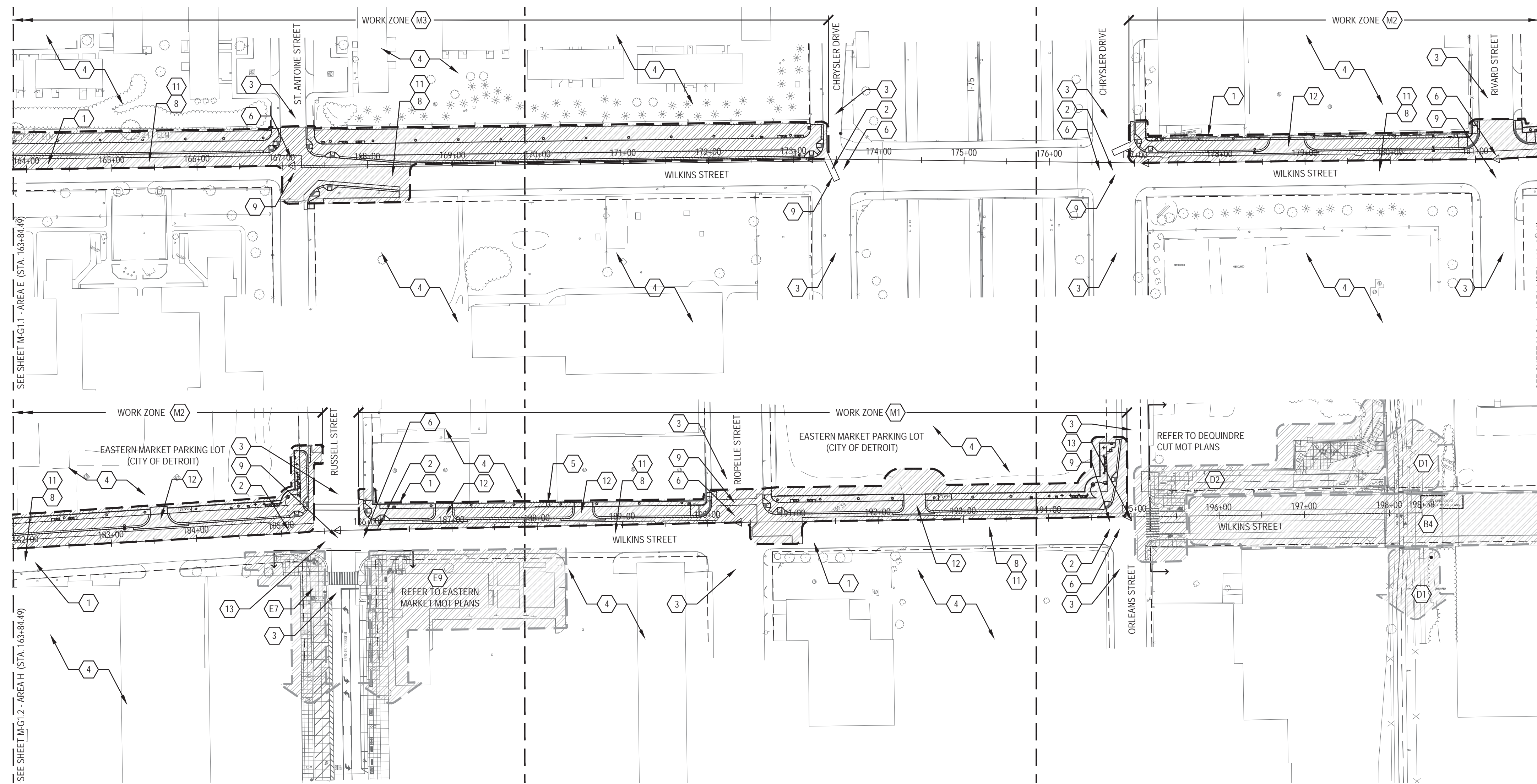
### MIDTOWN LOOP PHASE IV

#### MAINTENANCE OF TRAFFIC KEY NOTES AND LEGEND

	WORK ZONE			1	PROVIDE ALL NECESSARY TEMPORARY TRAFFIC CONTROL DEVICES (WZD-125-6) INCLUDING BUT NOT LIMITED TO TEMPORARY SIGNAGE, FENCING, BARRICADES, PLASTIC DRUMS, LIGHTED ARROWS, AND STEEL PLATING AS REQUIRED TO ENSURE A SAFE AND CLEARLY DEFINED CONSTRUCTION AREA. PER PERMIT REQUIREMENTS, TED, MDOT AND AS REQUESTED BY THE ENGINEER.	8	MAINTAIN TWO-WAY VEHICULAR TRAFFIC ALLOWING ONE-LANE IN EACH DIRECTION.
	WORK ZONE 1 TO BE COMPLETED PER THE FOLLOWING DATES: DEMOLITION/SITE PREPARATION/UNDERGROUND UTILITIES SITE AND HARDSCAPE IMPROVEMENTS	AUG. 30, 2013 TO NOV. 27, 2013 DEC. 2, 2013 TO MAR. 28, 2014		2	PROVIDE REQUIRED MERGING TAPER LENGTHS (M0020a) AND ADVANCE SIGNING (M0040a) FOR ALL WORK ZONES.	9	MAINTAIN VEHICULAR TRAFFIC THROUGH INTERSECTION.
	WORK ZONE 2 TO BE COMPLETED PER THE FOLLOWING DATES: DEMOLITION/SITE PREPARATION/UNDERGROUND UTILITIES SITE AND HARDSCAPE IMPROVEMENTS	NOV. 27, 2013 TO JAN. 31, 2014 FEB. 3, 2014 TO MAR. 28, 2014		3	PROVIDE ADVANCE WARNING ON ADJACENT SIDE STREETS WITH "CONSTRUCTION WORK AHEAD" SIGNS.	10	INTERSECTION WIDTH ALLOWS ONLY ONE-LANE OF VEHICULAR TRAFFIC TO BE MAINTAINED. DURATION AND TIMING OF PARTIAL ROAD CLOSURE TO BE LIMITED AS MUCH AS POSSIBLE AND PER PERMIT REQUIREMENTS. PROVIDE REGULATOR CONTROL TO MAINTAIN ALTERNATING TRAFFIC FLOW WHEN AN ALTERNATE OR DETOUR ROUTE IS NOT AVAILABLE. OPEN INTERSECTION TO TWO-WAY TRAFFIC DURING NON-CONSTRUCTION HOURS AND PROVIDE NECESSARY STEEL PLATING AND PROTECTION MEASURES.
	WORK ZONE 3 TO BE COMPLETED PER THE FOLLOWING DATES: DEMOLITION/SITE PREPARATION/UNDERGROUND UTILITIES SITE AND HARDSCAPE IMPROVEMENTS	FEB. 3, 2014 TO MAR. 28, 2014 MAR. 31, 2014 TO MAY 30, 2014		4	ADJACENT PUBLIC/PRIVATE PROPERTY NOT TO BE USED FOR CONSTRUCTION STAGING, ACCESS, OR STORAGE OF MATERIALS.	11	MAXIMUM OF ONE LANE CLOSURE AS PERMITTED. CONSTRUCTION IS LIMITED TO ONE SIDE OF THE STREET AND/OR INTERSECTION AT ANY GIVEN TIME. PROVIDE TEMPORARY TRAFFIC CONTROL (M0140a & M0210a).
	WORK ZONE 4 TO BE COMPLETED PER THE FOLLOWING DATES: DEMOLITION/SITE PREPARATION/UNDERGROUND UTILITIES SITE AND HARDSCAPE IMPROVEMENTS	MAR. 31, 2014 TO MAY 30, 2014 JUNE 2, 2014 TO AUG. 1, 2014		5	MAINTAIN PEDESTRIAN ACCESS TO PUBLIC/PRIVATE PROPERTIES AND BUSINESSES. PROVIDE ALL NECESSARY PROTECTION MEASURES.	12	MAINTAIN ACCESS TO PUBLIC/PRIVATE DRIVEWAYS/ALLEYS. WHEN ADEQUATE SPACE IS AVAILABLE CLOSE ONLY HALF OF THE DRIVEWAY TO ALLOW ACCESS ON THE OTHER HALF.
	WORK ZONE 5 TO BE COMPLETED PER THE FOLLOWING DATES: DEMOLITION/SITE PREPARATION/UNDERGROUND UTILITIES SITE AND HARDSCAPE IMPROVEMENTS	JUNE 2, 2014 TO AUG. 1, 2014 AUG. 4, 2014 TO SEPT. 26, 2014		6	MAINTAIN PEDESTRIAN ACCESS ON THREE CORNERS OF INTERSECTION AT ALL TIMES.	13	COORDINATE MAINTENANCE OF TRAFFIC PLANS WITH ADJACENT CONSTRUCTION PROJECTS.
	WORK ZONE 6 TO BE COMPLETED PER THE FOLLOWING DATES: DEMOLITION/SITE PREPARATION/UNDERGROUND UTILITIES SITE AND HARDSCAPE IMPROVEMENTS	AUG. 4, 2014 TO SEPT. 26, 2014 SEPT. 29, 2014 TO NOV. 28, 2014		7	MAINTAIN A MINIMUM OF ONE-LANE OF TRAFFIC.		
	WORK ZONE D1 TO BE COMPLETED PER THE FOLLOWING DATES:	AUG. 30, 2013 TO JULY 25, 2014					
	DEQUINDER CUT PHASE II WORK ZONE D2 TO BE COMPLETED PER THE FOLLOWING DATES: DEMOLITION / SITE PREPARATION / UNDERGROUND UTILITIES SITE AND HARDSCAPE IMPROVEMENTS *CONSTRUCTION WORK IN ZONE D2 SHALL BE COORDINATED WITH THE WILKINS BRIDGE RECONSTRUCTION	JAN. 6, 2014 TO APR. 25, 2014 JULY 28, 2014 TO NOV. 28, 2014					
	BRIDGE WORK ZONE B4 TO BE COMPLETED PER THE FOLLOWING DATES:	MAY 5, 2014 TO SEPT. 26, 2014					
	EASTERN MARKET WORK ZONE E7 TO BE COMPLETED PER THE FOLLOWING DATES: DEMOLITION/SITE PREPARATION/UNDERGROUND UTILITIES SITE AND HARDSCAPE IMPROVEMENTS	AUG. 4, 2014 TO AUG. 29, 2014 SEPT. 1, 2014 TO SEPT. 26, 2014					
	EASTERN MARKET WORK ZONE E9 TO BE COMPLETED PER THE FOLLOWING DATES: DEMOLITION/SITE PREPARATION/UNDERGROUND UTILITIES SITE AND HARDSCAPE IMPROVEMENTS	SEPT. 29, 2014 TO OCT. 31, 2014 NOV. 3, 2013 TO NOV. 28, 2014					

NOTE:  
1. REFER TO DRAWING G0.3 FOR MAINTENANCE OF TRAFFIC NOTES.





### MIDTOWN LOOP PHASE IV

MAINTENANCE OF TRAFFIC KEY NOTES AND LEGEND						
	WORK ZONE		1	PROVIDE ALL NECESSARY TEMPORARY TRAFFIC CONTROL DEVICES (WZD-125-6) INCLUDING BUT NOT LIMITED TO TEMPORARY SIGNAGE, FENCING, BARRICADES, PLASTIC DRUMS, LIGHTED ARROWS, AND STEEL PLATING AS REQUIRED TO ENSURE A SAFE AND CLEARLY DEFINED CONSTRUCTION AREA, PER PERMIT REQUIREMENTS. TED, MDOT AND AS REQUESTED BY THE ENGINEER.	8	MAINTAIN TWO-WAY VEHICULAR TRAFFIC ALLOWING ONE-LANE IN EACH DIRECTION.
M1	WORK ZONE 1 TO BE COMPLETED PER THE FOLLOWING DATES: DEMOLITION/SITE PREPARATION/UNDERGROUND UTILITIES SITE AND HARDSCAPE IMPROVEMENTS	AUG. 30, 2013 TO NOV. 27, 2013 DEC. 2, 2013 TO MAR. 28, 2014	2	PROVIDE REQUIRED MERGING TAPER LENGTHS (M0020a) AND ADVANCE SIGNING (M0040a) FOR ALL WORK ZONES.	9	MAINTAIN VEHICULAR TRAFFIC THROUGH INTERSECTION.
M2	WORK ZONE 2 TO BE COMPLETED PER THE FOLLOWING DATES: DEMOLITION/SITE PREPARATION/UNDERGROUND UTILITIES SITE AND HARDSCAPE IMPROVEMENTS	NOV. 27, 2013 TO JAN. 31, 2014 FEB. 3, 2014 TO MAR. 28, 2014	3	PROVIDE ADVANCE WARNING ON ADJACENT SIDE STREETS WITH 'CONSTRUCTION WORK AHEAD' SIGNS.	10	INTERSECTION WIDTH ALLOWS ONLY ONE-LANE OF VEHICULAR TRAFFIC TO BE MAINTAINED. DURATION AND TIMING OF PARTIAL ROAD CLOSURE TO BE LIMITED AS MUCH AS POSSIBLE AND PER PERMIT REQUIREMENTS. PROVIDE REGULATOR CONTROL TO MAINTAIN ALTERNATING TRAFFIC FLOW WHEN AN ALTERNATE OR DETOUR ROUTE IS NOT AVAILABLE. OPEN INTERSECTION TO TWO-WAY TRAFFIC DURING NON-CONSTRUCTION HOURS AND PROVIDE NECESSARY STEEL PLATING AND PROTECTION MEASURES.
M3	WORK ZONE 3 TO BE COMPLETED PER THE FOLLOWING DATES: DEMOLITION/SITE PREPARATION/UNDERGROUND UTILITIES SITE AND HARDSCAPE IMPROVEMENTS	FEB. 3, 2014 TO MAR. 28, 2014 MAR. 31, 2014 TO MAY 30, 2014	4	ADJACENT PUBLIC/PRIVATE PROPERTY NOT TO BE USED FOR CONSTRUCTION STAGING, ACCESS, OR STORAGE OF MATERIALS.	11	MAXIMUM OF ONE LANE CLOSURE AS PERMITTED. CONSTRUCTION IS LIMITED TO ONE SIDE OF THE STREET AND/OR INTERSECTION AT ANY GIVEN TIME. PROVIDE TEMPORARY TRAFFIC CONTROL (M0140a & M0210a).
M4	WORK ZONE 4 TO BE COMPLETED PER THE FOLLOWING DATES: DEMOLITION/SITE PREPARATION/UNDERGROUND UTILITIES SITE AND HARDSCAPE IMPROVEMENTS	MAR. 31, 2014 TO MAY 30, 2014 JUNE 2, 2014 TO AUG. 1, 2014	5	MAINTAIN PEDESTRIAN ACCESS TO PUBLIC/PRIVATE PROPERTIES AND BUSINESSES. PROVIDE ALL NECESSARY PROTECTION MEASURES.	12	MAINTAIN ACCESS TO PUBLIC/PRIVATE DRIVEWAYS/ALLEYS. WHEN ADEQUATE SPACE IS AVAILABLE CLOSE ONLY HALF OF THE DRIVEWAY TO ALLOW ACCESS ON THE OTHER HALF.
M5	WORK ZONE 5 TO BE COMPLETED PER THE FOLLOWING DATES: DEMOLITION/SITE PREPARATION/UNDERGROUND UTILITIES SITE AND HARDSCAPE IMPROVEMENTS	JUNE 2, 2014 TO AUG. 1, 2014 AUG. 4, 2014 TO SEPT. 26, 2014	6	MAINTAIN PEDESTRIAN ACCESS ON THREE CORNERS OF INTERSECTION AT ALL TIMES.	13	COORDINATE MAINTENANCE OF TRAFFIC PLANS WITH ADJACENT CONSTRUCTION PROJECTS.
M6	WORK ZONE 6 TO BE COMPLETED PER THE FOLLOWING DATES: DEMOLITION/SITE PREPARATION/UNDERGROUND UTILITIES SITE AND HARDSCAPE IMPROVEMENTS	AUG. 4, 2014 TO SEPT. 26, 2014 SEPT. 29, 2014 TO NOV. 28, 2014	7	MAINTAIN A MINIMUM OF ONE-LANE OF TRAFFIC.		
D1	WORK ZONE D1 TO BE COMPLETED PER THE FOLLOWING DATES:	AUG. 30, 2013 TO JULY 25, 2014				
D2	DEQUINDER CUT PHASE II WORK ZONE D2 TO BE COMPLETED PER THE FOLLOWING DATES: DEMOLITION / SITE PREPARATION / UNDERGROUND UTILITIES SITE AND HARDSCAPE IMPROVEMENTS CONSTRUCTION WORK IN ZONE D2 SHALL BE COORDINATED WITH THE WILKINS BRIDGE RECONSTRUCTION	JAN. 6, 2014 TO APR. 25, 2014 JULY 28, 2014 TO NOV. 28, 2014				
B4	BRIDGE WORK ZONE B4 TO BE COMPLETED PER THE FOLLOWING DATES:	MAY 5, 2014 TO SEPT. 26, 2014				
E7	EASTERN MARKET WORK ZONE E7 TO BE COMPLETED PER THE FOLLOWING DATES: DEMOLITION/SITE PREPARATION/UNDERGROUND UTILITIES SITE AND HARDSCAPE IMPROVEMENTS	AUG. 4 2014 TO AUG. 29, 2014 SEPT. 1, 2014 TO SEPT. 26, 2014				
E9	EASTERN MARKET WORK ZONE E9 TO BE COMPLETED PER THE FOLLOWING DATES: DEMOLITION/SITE PREPARATION/UNDERGROUND UTILITIES SITE AND HARDSCAPE IMPROVEMENTS	SEPT. 29, 2013 TO OCT. 31, 2014 NOV. 3, 2013 TO NOV. 28 2014				

NOTE:  
1. REFER TO DRAWING G03 FOR MAINTENANCE OF TRAFFIC NOTES.

## Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



Midtown Detroit, Inc.

## SMITHGROUP JJR

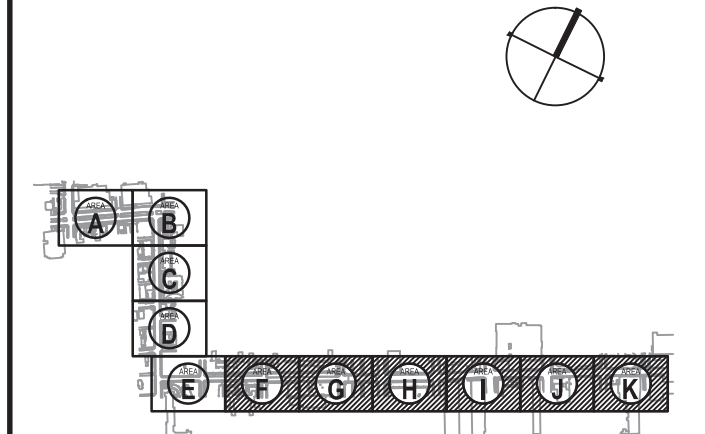
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SECOND FLOOR  
ANN ARBOR, MI 48104  
734.662.4457  
www.smithgroupjjr.com

ISSUED FOR	REV	DATE
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50% CONSTRUCTION DOCUMENTS	0	NOV 05, 2012

SEALS AND SIGNATURES

KEY PLAN

Project North



DRAWING TITLE

### MAINTENANCE OF TRAFFIC PLANS - AREA F TO K

GRAPHIC SCALE  
TAKES PRECEDENCE  
FULL SIZE SCALE (24x36)  
1"=80'-0"  
24708.003

PROJECT NUMBER

DRAWING NUMBER



3 WORKING DAYS BEFORE YOU DIG  
CALL MISS DIG  
1-800-482-7171

## M-G1.2

216 of 497



# TOPOGRAPHIC SURVEY

## CITY OF DETROIT, WAYNE COUNTY, MICHIGAN

### Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



Midtown Detroit, Inc.

### SMITHGROUP JJR

201 DEPOT STREET  
SECOND FLOOR  
ANN ARBOR, MI 48104  
734.662.4457  
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#### SURVEY LEGEND

	SECTION CORNER		EX. TOPO CONTOUR
	BENCHMARK		EX. DITCH CENTERLINE
	CONTROL POINT		EDGE OF GRAVEL
	FOUND IRON PIPE		EDGE OF SHOULDER
	FOUND CONC. MONUMENT		EDGE OF WATER
	SET IRON PIPE		EDGE OF WETLAND
	SET CONC. MONUMENT		EASEMENT
	CABLE RISER		EX. FENCE
	CATCH BASIN		RIGHT-OF-WAY LINE
	CURB INLET		EX. RIVER CENTERLINE
	ELECT. TRANSFORMER		EX. STREAM CENTERLINE
	END SECTION		EX. SWALE CENTERLINE
	GUY WIRE		EX. CABLE TELEVISION
	FIRE HYDRANT		EX. COMMUNICATION
	LIGHT POLE		EX. UNDERGROUND ELEC
	MANHOLE		EX. FIBER OPTIC
	SHUT OFF VALVE		EX. HOT WATER (STEAM)
	UTILITY MARKER		EX. OVERHEAD UTILITY
	UTILITY POLE		EX. SANITARY SEWER
	WELL		EX. STORM SEWER
	BOLLARD		EX. WATER MAIN
	HANDICAP SYMBOL		EX. GAS
	MAILBOX		
	POST - ROUND		
	POST - SQUARE		
	SIGN		
	SIGN - DOUBLE POST		
	SPRINKLER HEAD		
	TREE - CONIFEROUS		
	TREE - DECIDUOUS		
	BUSH		
	BRUSH LINE		
	TREE LINE (DRIP LINE)		
	LANDSCAPE BED		
	MONITORING WELL		
	SOIL BORING		
	TEST PIT		

#### BENCH MARKS:

(CITY OF DETROIT DATUM)

SITE BENCH MARK NO. 1  
ARROW ON HYDRANT.  
LOCATED ON THE SOUTH SIDE OF KIRBY STREET,  
40'+/- EAST OF WOODWARD AVENUE  
ELEVATION = 154.97

SITE BENCH MARK NO. 2  
ARROW ON HYDRANT.  
LOCATED AT THE NORTHERLY INTERSECTION OF  
JOHN R. ROAD AND KIRBY STREET.  
ELEVATION = 154.57

SITE BENCH MARK NO. 3  
ARROW ON HYDRANT.  
LOCATED AT THE SOUTHEAST CORNER OF  
FRANSWORTH AVENUE AND JOHN R. ROAD.  
ELEVATION = 154.97

SITE BENCH MARK NO. 4  
ARROW ON HYDRANT.  
LOCATED ON THE NORTH SIDE OF KIRBY STREET,  
BETWEEN CASS AVENUE AND WOODWARD AVENUE.  
ELEVATION = 155.22

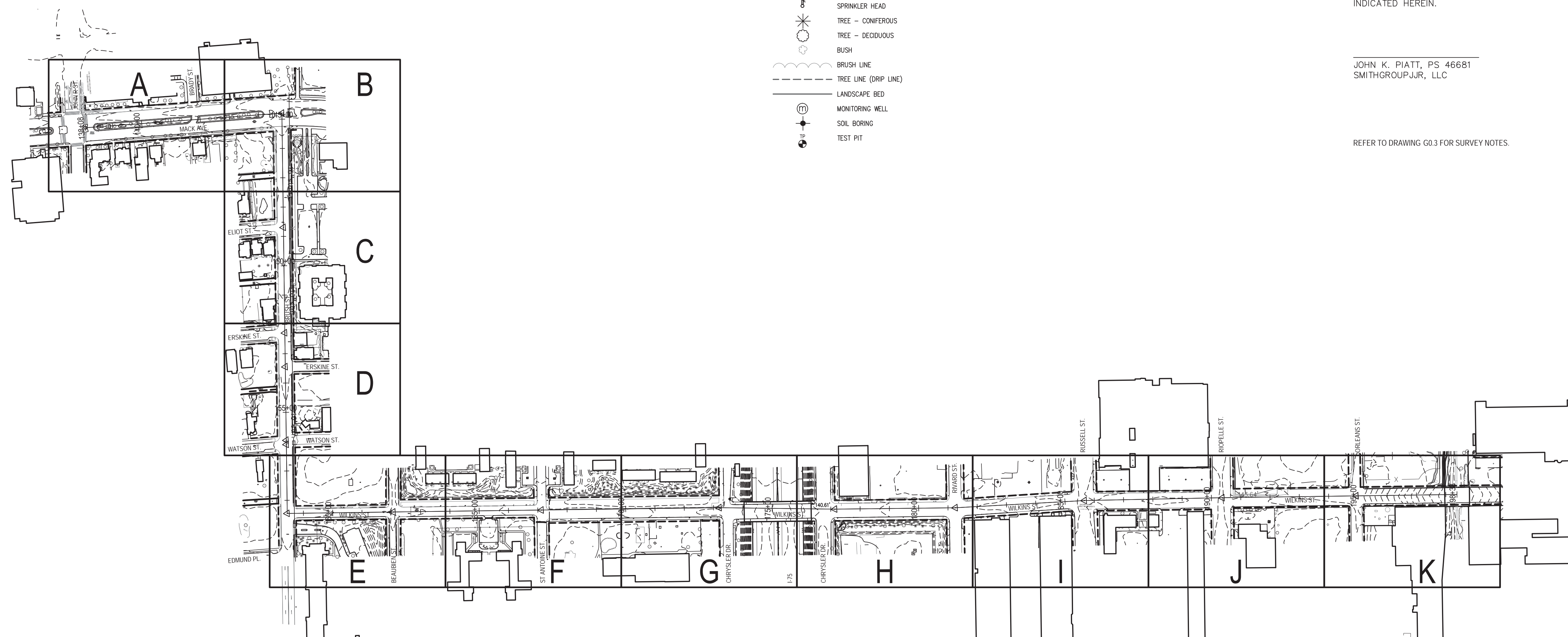
#### CERTIFICATE

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH LOCAL AND STATE JURISDICTIONAL REQUIREMENTS REGULATING MAPPING STANDARDS. THE UNDERSIGNED STATES THAT PROPER FIELD PROCEDURES, INSTRUMENTATION AND ADEQUATE STAFF WERE EMPLOYED TO ACHIEVE THE RESULTS INDICATED HEREIN.

JOHN K. PIATT, PS 46681  
SMITHGROUPJJR, LLC

DATE

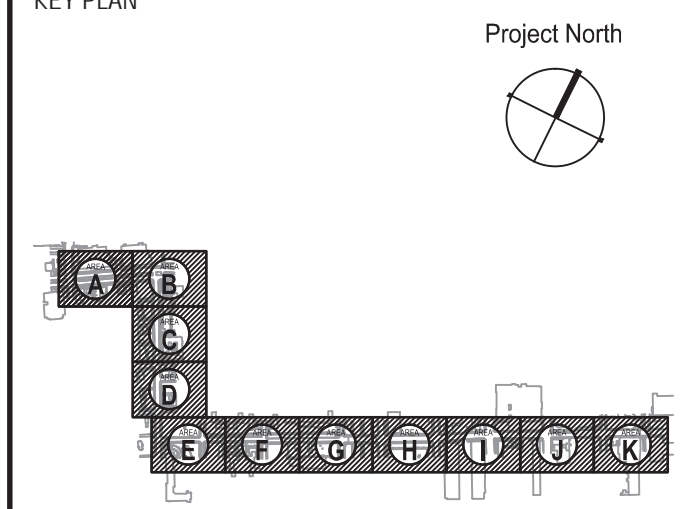
REFER TO DRAWING G0.3 FOR SURVEY NOTES.



ISSUED FOR	REV	DATE
BIDDING DOCUMENTS	5	MAY 21, 2013
BIDDING DOCUMENTS	4	MAY 02, 2013
100% CONSTRUCTION DOCUMENTS	3	APR 01, 2013
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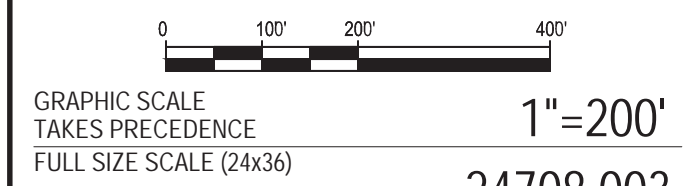
#### SEALS AND SIGNATURES

#### KEY PLAN



#### DRAWING TITLE

### TOPOGRAPHICAL SURVEY TITLE SHEET

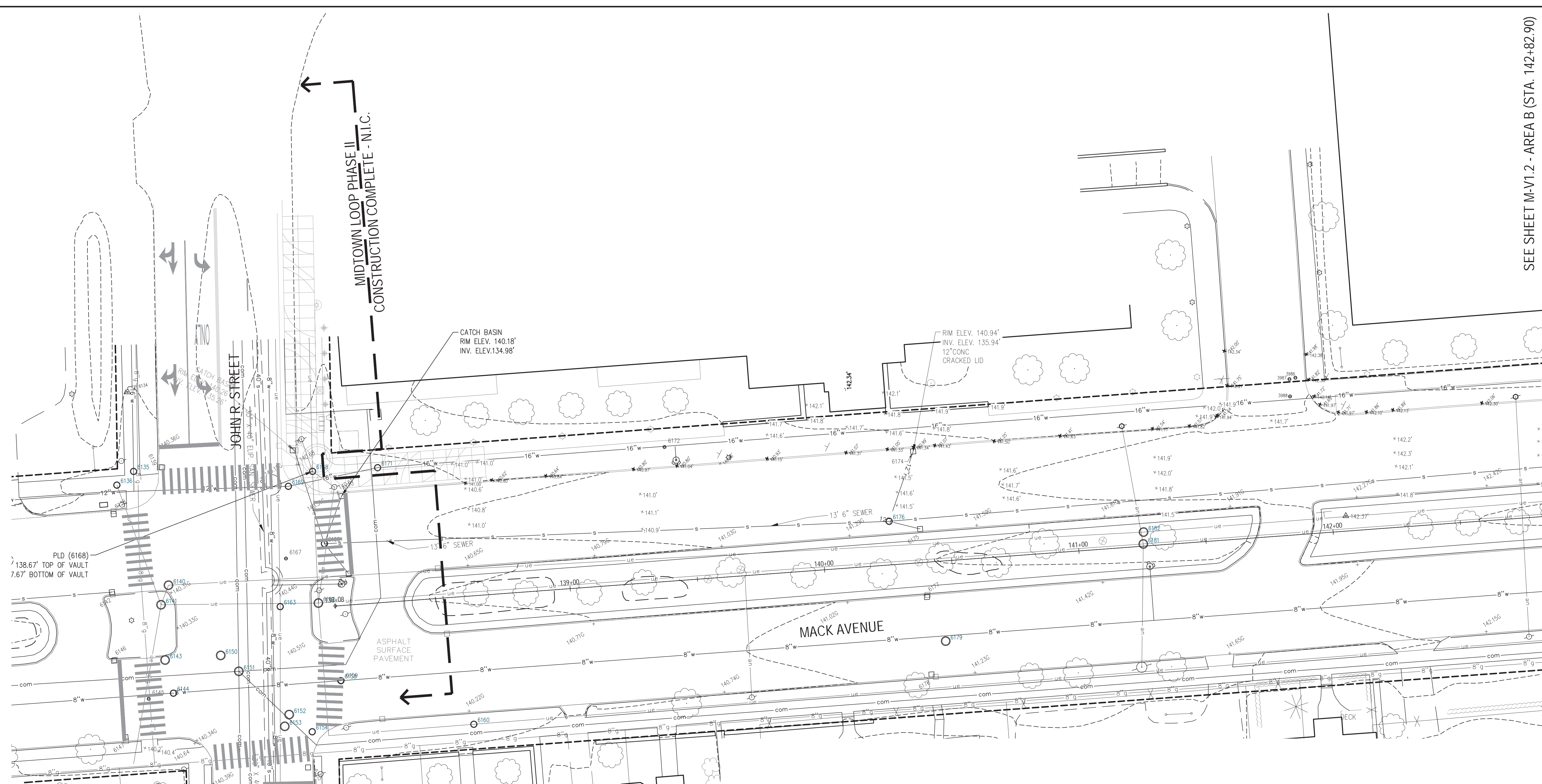


PROJECT NUMBER  
**M-V1.0**

DRAWING NUMBER  
217 of 497



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SEE SHEET M-V1.2 - AREA B (STA. 142+82.90)

MIDTOWN LOOP PHASE II  
CONSTRUCTION COMPLETE - N.I.C.

# Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



Owners:  
 City of Detroit



Midtown Detroit, Inc.

## SMITHGROUP JJR

201 DEPOT STREET  
SECOND FLOOR  
ANN ARBOR, MI 48104  
734.662.4457  
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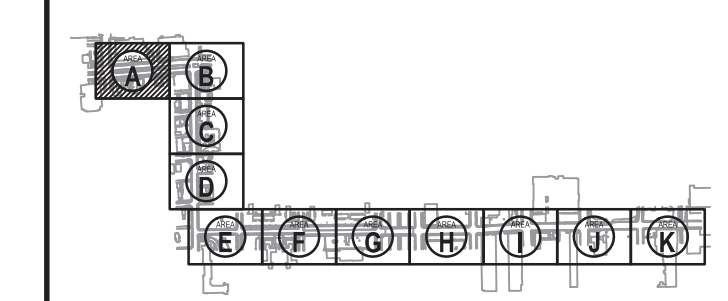
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GRADE INSPECTION	2	JAN 30 2013
80% CONSTRUCTION DOCUMENTS	1	JAN 07 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05 2012

SEALS AND SIGNATURES

### SURVEY LEGEND

- |  |                      |  |                       |  |                       |
|--|----------------------|--|-----------------------|--|-----------------------|
|  | SECTION CORNER       |  | POST - ROUND          |  | EX. TOPO CONTOUR      |
|  | BENCHMARK            |  | POST - SQUARE         |  | EX. DITCH CENTERLINE  |
|  | CONTROL POINT        |  | SIGN                  |  | EDGE OF GRAVEL        |
|  | FOUND IRON PIPE      |  | SIGN - DOUBLE POST    |  | EDGE OF SHOULDER      |
|  | FOUND CONC. MONUMENT |  | SPRINKLER HEAD        |  | EDGE OF WATER         |
|  | SET IRON PIPE        |  | TREE - CONIFEROUS     |  | EDGE OF WETLAND       |
|  | SET CONC. MONUMENT   |  | TREE - DECIDUOUS      |  | EASEMENT              |
|  | CABLE RISER          |  | BUSH                  |  | EX. FENCE             |
|  | CATCH BASIN          |  | BRUSH LINE            |  | RIGHT-OF-WAY LINE     |
|  | CURB INLET           |  | TREE LINE (DRIP LINE) |  | EX. RIVER CENTERLINE  |
|  | ELECT. TRANSFORMER   |  | MONITORING WELL       |  | EX. STREAM CENTERLINE |
|  | END SECTION          |  | SOIL BORING           |  | EX. SWALE CENTERLINE  |
|  | GUY WIRE             |  | TEST PIT              |  | EX. CABLE TELEVISION  |
|  | FIRE HYDRANT         |  |                       |  | EX. FIBER OPTIC       |
|  | LIGHT POLE           |  |                       |  | EX. HOT WATER (STEAM) |
|  | MANHOLE              |  |                       |  | EX. OVERHEAD UTILITY  |
|  | SHUT OFF VALVE       |  |                       |  | EX. SANITARY SEWER    |
|  | UTILITY MARKER       |  |                       |  | EX. STORM SEWER       |
|  | UTILITY POLE         |  |                       |  | EX. WATER MAIN        |
|  | WELL                 |  |                       |  | EX. GAS               |
|  | BOLLARD              |  |                       |  |                       |
|  | HANDICAP SYMBOL      |  |                       |  |                       |
|  | MAILBOX              |  |                       |  |                       |

REFER TO DRAWING G0.3 FOR SURVEY NOTES.



### DRAWING TITLE

## TOPOGRAPHICAL SURVEY - AREA A

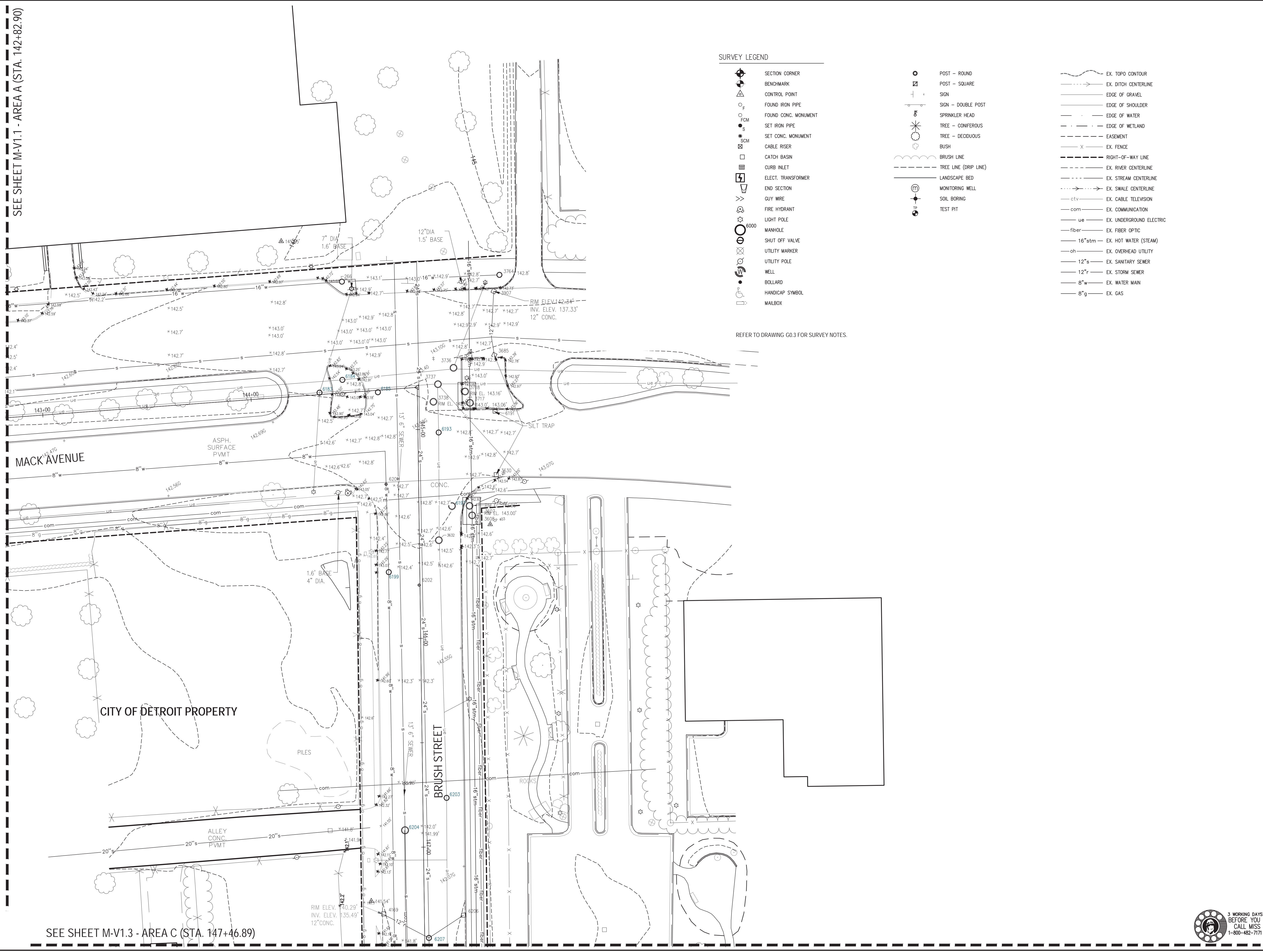
GRAPHIC SCALE  
TAKES PRECEDENCE  
FULL SIZE SCALE (24x36)  
1" = 20'-0"  
24708.003

PROJECT NUMBER  
**M-V1.1**  
DRAWING NUMBER  
218 of 497



SEE SHEET M-V1.1 - AREA A (STA. 142+82.90)

FILE: P:\24708\003\Phase-IV\CAD\Sheet\24708-004-SURV-SHT.dwg USER: young DATE: May 21 2013 TIME: 04:39 pm



**SURVEY LEGEND**

- |  |                      |  |                       |  |                          |
|--|----------------------|--|-----------------------|--|--------------------------|
|  | SECTION CORNER       |  | POST - ROUND          |  | EX. TOPO CONTOUR         |
|  | BENCHMARK            |  | POST - SQUARE         |  | EX. DITCH CENTERLINE     |
|  | CONTROL POINT        |  | SIGN                  |  | EDGE OF GRAVEL           |
|  | FOUND IRON PIPE      |  | SIGN - DOUBLE POST    |  | EDGE OF SHOULDER         |
|  | FOUND CONC. MONUMENT |  | SPRINKLER HEAD        |  | EDGE OF WATER            |
|  | SET IRON PIPE        |  | TREE - CONIFEROUS     |  | EDGE OF WETLAND          |
|  | SET CONC. MONUMENT   |  | TREE - DECIDUOUS      |  | EASEMENT                 |
|  | CABLE RISER          |  | BUSH                  |  | EX. FENCE                |
|  | CATCH BASIN          |  | BRUSH LINE            |  | RIGHT-OF-WAY LINE        |
|  | CURB INLET           |  | TREE LINE (DRIP LINE) |  | EX. RIVER CENTERLINE     |
|  | ELECT. TRANSFORMER   |  | LANDSCAPE BED         |  | EX. STREAM CENTERLINE    |
|  | END SECTION          |  | MONITORING WELL       |  | EX. SWALE CENTERLINE     |
|  | GUY WIRE             |  | SOIL BORING           |  | EX. CABLE TELEVISION     |
|  | FIRE HYDRANT         |  | TEST PIT              |  | EX. COMMUNICATION        |
|  | LIGHT POLE           |  |                       |  | EX. UNDERGROUND ELECTRIC |
|  | MANHOLE              |  |                       |  | EX. FIBER OPTIC          |
|  | SHUT OFF VALVE       |  |                       |  | EX. HOT WATER (STEAM)    |
|  | UTILITY MARKER       |  |                       |  | EX. OVERHEAD UTILITY     |
|  | UTILITY POLE         |  |                       |  | EX. STORM SEWER          |
|  | WELL                 |  |                       |  | EX. SANITARY SEWER       |
|  | BOLLARD              |  |                       |  | EX. WATER MAIN           |
|  | HANDICAP SYMBOL      |  |                       |  | EX. GAS                  |
|  | MAILBOX              |  |                       |  |                          |

REFER TO DRAWING G0.3 FOR SURVEY NOTES.

**Midtown Loop Phase IV**

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



Midtown Detroit, Inc.

**SMITHGROUP JJR**

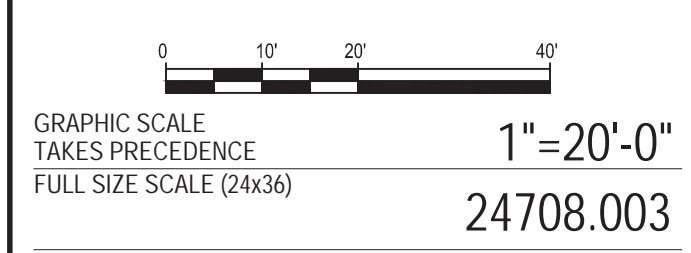
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ANN ARBOR, MI 48104  
734.662.4457  
www.smithgroupjjr.com

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BIDDING DOCUMENTS	5	MAY 21 2013
BIDDING DOCUMENTS	4	MAY 02 2013
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GRADE INSPECTION	2	JAN 30 2013
80% CONSTRUCTION DOCUMENTS	1	JAN 07 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05 2012

SEALS AND SIGNATURES



**DRAWING TITLE**  
TOPOGRAPHICAL SURVEY - AREA B



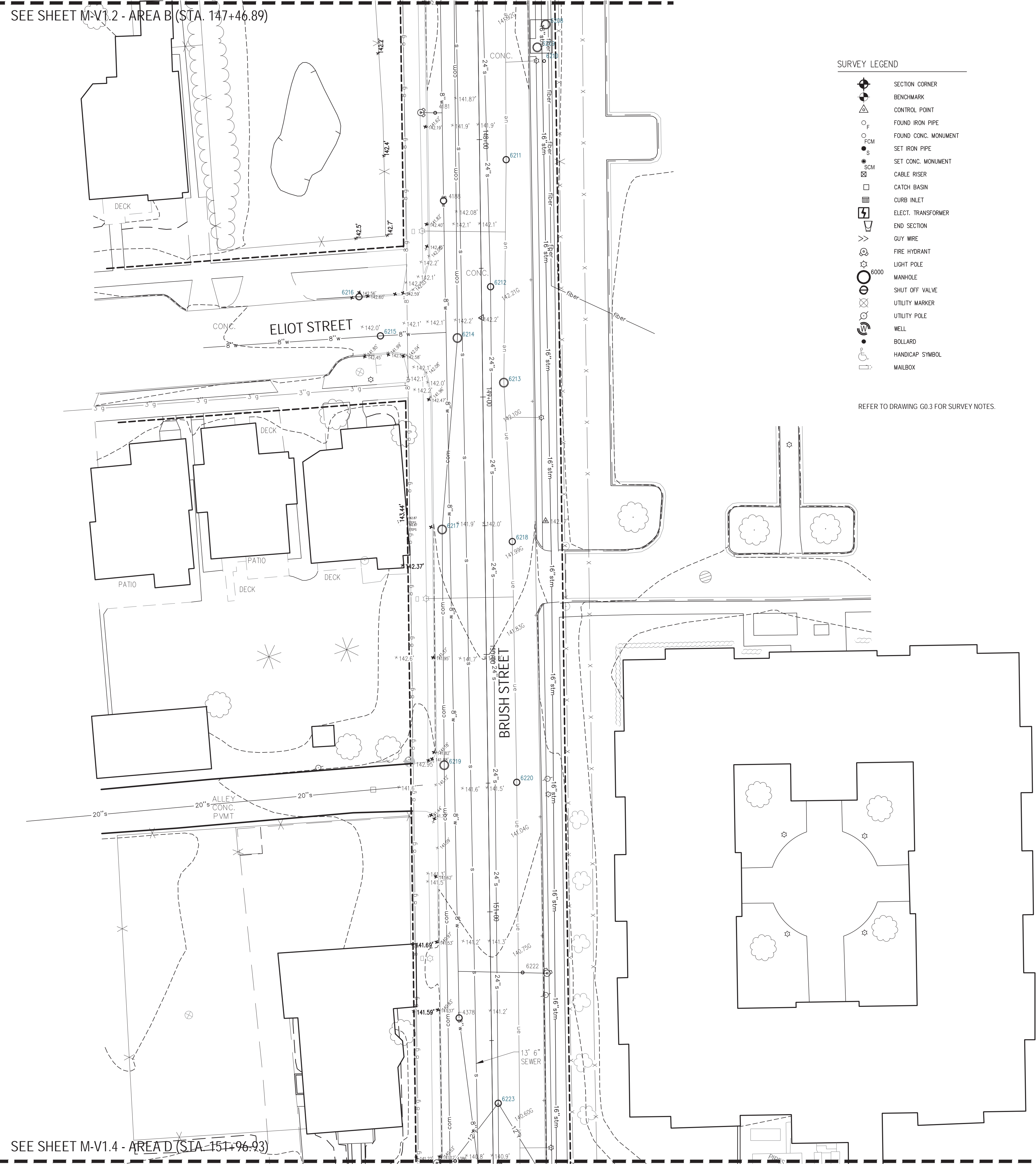
PROJECT NUMBER  
**M-V1.2**

DRAWING NUMBER  
219 of 497



3 WORKING DAYS BEFORE YOU DIG  
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SEE SHEET M-V1.2 - AREA B (STA. 147+46.89)



SURVEY LEGEND

- |  |                      |  |                       |  |                          |
|--|----------------------|--|-----------------------|--|--------------------------|
|  | SECTION CORNER       |  | POST - ROUND          |  | EX. TOPO CONTOUR         |
|  | BENCHMARK            |  | POST - SQUARE         |  | EX. DITCH CENTERLINE     |
|  | CONTROL POINT        |  | SIGN                  |  | EDGE OF GRAVEL           |
|  | FOUND IRON PIPE      |  | SIGN - DOUBLE POST    |  | EDGE OF SHOULDER         |
|  | FOUND CONC. MONUMENT |  | SPRINKLER HEAD        |  | EDGE OF WATER            |
|  | SET IRON PIPE        |  | TREE - CONIFEROUS     |  | EDGE OF WETLAND          |
|  | SET CONC. MONUMENT   |  | TREE - DECIDUOUS      |  | EASEMENT                 |
|  | CABLE RISER          |  | BUSH                  |  | EX. FENCE                |
|  | CATCH BASIN          |  | BRUSH LINE            |  | RIGHT-OF-WAY LINE        |
|  | CURB INLET           |  | TREE LINE (DRIP LINE) |  | EX. RIVER CENTERLINE     |
|  | ELECT. TRANSFORMER   |  | LANDSCAPE BED         |  | EX. STREAM CENTERLINE    |
|  | END SECTION          |  | MONITORING WELL       |  | EX. SWALE CENTERLINE     |
|  | GUY WIRE             |  | SOIL BORING           |  | EX. CABLE TELEVISION     |
|  | FIRE HYDRANT         |  | TEST PIT              |  | EX. COMMUNICATION        |
|  | LIGHT POLE           |  |                       |  | EX. UNDERGROUND ELECTRIC |
|  | MANHOLE              |  |                       |  | EX. FIBER OPTIC          |
|  | SHUT OFF VALVE       |  |                       |  | EX. HOT WATER (STEAM)    |
|  | UTILITY MARKER       |  |                       |  | EX. OVERHEAD UTILITY     |
|  | UTILITY POLE         |  |                       |  | EX. SANITARY SEWER       |
|  | WELL                 |  |                       |  | EX. STORM SEWER          |
|  | BOLLARD              |  |                       |  | EX. WATER MAIN           |
|  | HANDICAP SYMBOL      |  |                       |  | EX. GAS                  |
|  | MAILBOX              |  |                       |  |                          |

REFER TO DRAWING G0.3 FOR SURVEY NOTES.

SEE SHEET M-V1.4 - AREA D (STA. 151+96.93)

Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



Midtown Detroit, Inc.

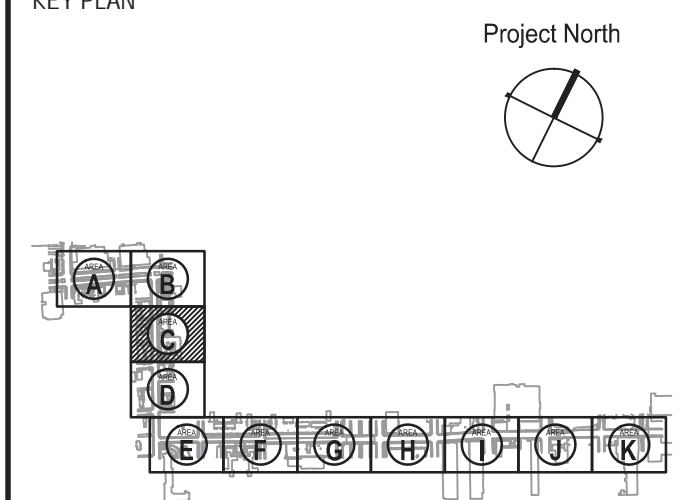
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GRADE INSPECTION	2	JAN 30, 2013
80% CONSTRUCTION DOCUMENTS	1	JAN 07, 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05, 2012

SEALS AND SIGNATURES

KEY PLAN



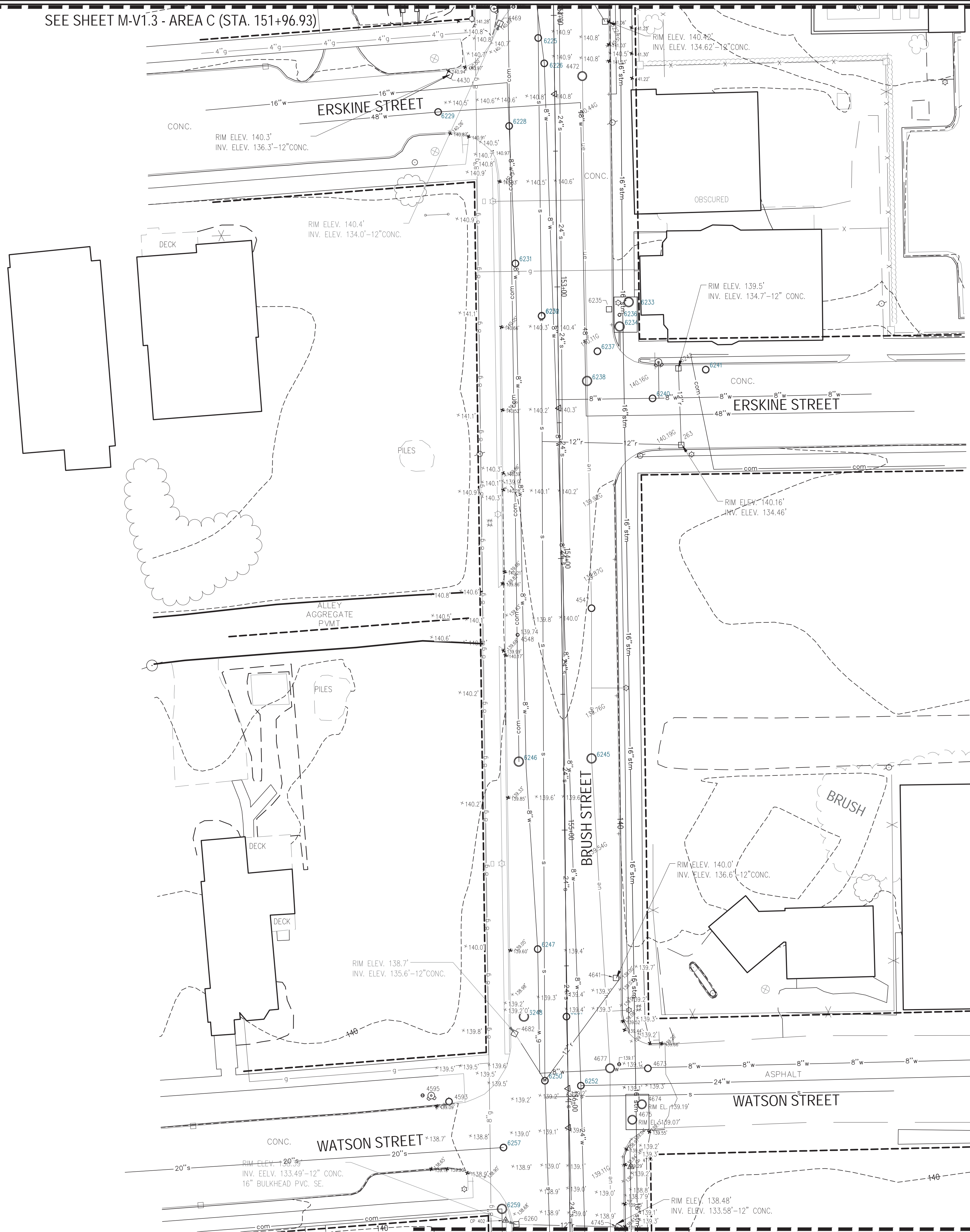
DRAWING TITLE  
TOPOGRAPHICAL SURVEY - AREA C

GRAPHIC SCALE  
TAKES PRECEDENCE  
FULL SIZE SCALE (24x36)  
1" = 20'-0"  
24708.003

PROJECT NUMBER  
DRAWING NUMBER  
M-V1.3  
220 of 497



SEE SHEET M-V1.3 - AREA C (STA. 151+96.93)



**SURVEY LEGEND**

- |  |                      |  |                       |  |                          |
|--|----------------------|--|-----------------------|--|--------------------------|
|  | SECTION CORNER       |  | POST - ROUND          |  | EX. TOPO CONTOUR         |
|  | BENCHMARK            |  | POST - SQUARE         |  | EX. DITCH CENTERLINE     |
|  | CONTROL POINT        |  | SIGN                  |  | EDGE OF GRAVEL           |
|  | FOUND IRON PIPE      |  | SIGN - DOUBLE POST    |  | EDGE OF SHOULDER         |
|  | FOUND CONC. MONUMENT |  | SPRINKLER HEAD        |  | EDGE OF WATER            |
|  | SET IRON PIPE        |  | TREE - CONIFEROUS     |  | EDGE OF WETLAND          |
|  | SET CONC. MONUMENT   |  | TREE - DECIDUOUS      |  | EASEMENT                 |
|  | CABLE RISER          |  | BUSH                  |  | EX. FENCE                |
|  | CATCH BASIN          |  | BRUSH LINE            |  | RIGHT-OF-WAY LINE        |
|  | CURB INLET           |  | TREE LINE (DRIP LINE) |  | EX. RIVER CENTERLINE     |
|  | ELECT. TRANSFORMER   |  | LANDSCAPE BED         |  | EX. STREAM CENTERLINE    |
|  | END SECTION          |  | MONITORING WELL       |  | EX. SWALE CENTERLINE     |
|  | GUY WIRE             |  | SOIL BORING           |  | EX. CABLE TELEVISION     |
|  | FIRE HYDRANT         |  | TEST PIT              |  | EX. COMMUNICATION        |
|  | LIGHT POLE           |  |                       |  | EX. OVERHEAD UTILITY     |
|  | MANHOLE              |  |                       |  | EX. UNDERGROUND ELECTRIC |
|  | SHUT OFF VALVE       |  |                       |  | EX. FIBER OPTIC          |
|  | UTILITY MARKER       |  |                       |  | EX. HOT WATER (STEAM)    |
|  | UTILITY POLE         |  |                       |  | EX. OVERHEAD UTILITY     |
|  | WELL                 |  |                       |  | EX. SANITARY SEWER       |
|  | BOLLARD              |  |                       |  | EX. STORM SEWER          |
|  | HANDICAP SYMBOL      |  |                       |  | EX. WATER MAIN           |
|  | MAILBOX              |  |                       |  | EX. GAS                  |

REFER TO DRAWING G0.3 FOR SURVEY NOTES.

**Midtown Loop  
Phase IV**

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



Midtown Detroit, Inc.

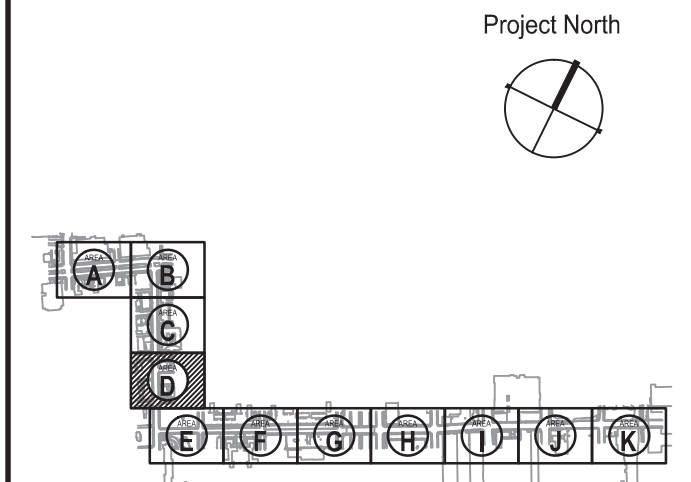
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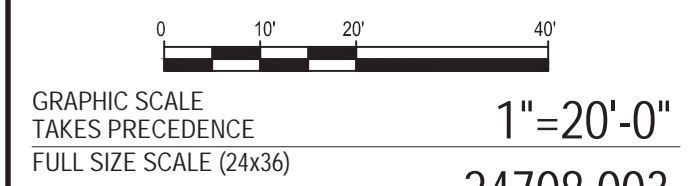
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100% CONSTRUCTION DOCUMENTS	3	APR 01, 2013
GRADE INSPECTION	2	JAN 30, 2013
80% CONSTRUCTION DOCUMENTS	1	JAN 07, 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05, 2012

SEALS AND SIGNATURES

KEY PLAN



**DRAWING TITLE**  
TOPOGRAPHICAL  
SURVEY - AREA D



PROJECT NUMBER

**M-V1.4**  
DRAWING NUMBER

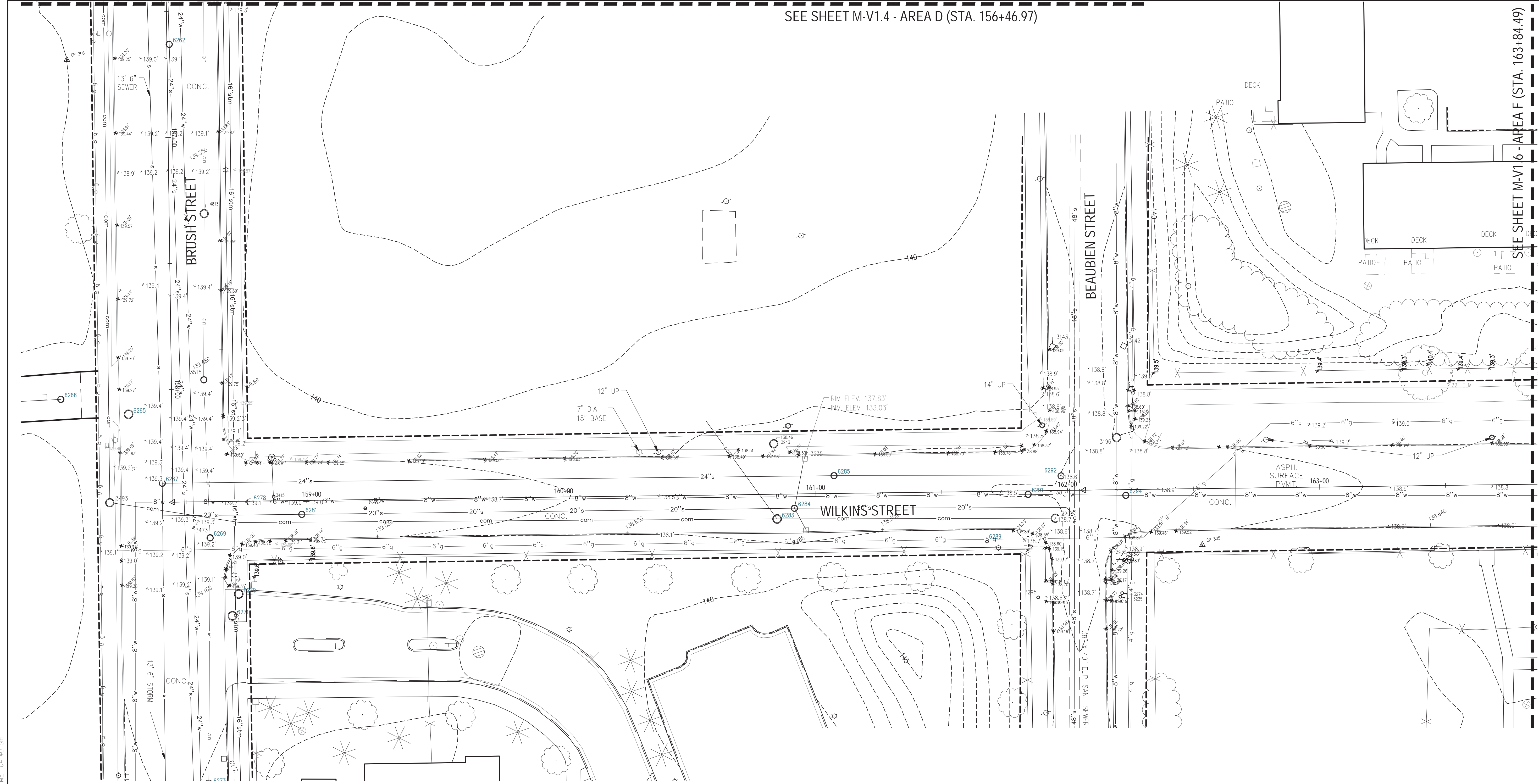
SEE SHEET M-V1.5 - AREA E (STA. 156+46.97)



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SEE SHEET M-V1.4 - AREA D (STA. 156+46.97)

SEE SHEET M-V1.6 - AREA F (STA. 163+84.49)



Midtown Loop  
Phase IV  
Midtown Loop  
Detroit, Michigan



Owners:  
 City of Detroit

**MIDTOWN**  
DETROIT  
Midtown Detroit, Inc.

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BIDDING DOCUMENTS	4	MAY 02 2013
100% CONSTRUCTION DOCUMENTS	3	APR 01 2013
GRADE INSPECTION	2	JAN 30 2013
80% CONSTRUCTION DOCUMENTS	1	JAN 07 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05 2012

SEALS AND SIGNATURES

KEY PLAN

**SURVEY LEGEND**

- |  |                      |  |                       |  |                          |
|--|----------------------|--|-----------------------|--|--------------------------|
|  | SECTION CORNER       |  | POST - ROUND          |  | EX. TOPO CONTOUR         |
|  | BENCHMARK            |  | POST - SQUARE         |  | EX. DITCH CENTERLINE     |
|  | CONTROL POINT        |  | SIGN                  |  | EDGE OF GRAVEL           |
|  | FOUND IRON PIPE      |  | SIGN - DOUBLE POST    |  | EDGE OF SHOULDER         |
|  | SET IRON PIPE        |  | SPRINKLER HEAD        |  | EDGE OF WATER            |
|  | FOUND CONC. MONUMENT |  | TREE - CONIFEROUS     |  | EDGE OF WETLAND          |
|  | SET CONC. MONUMENT   |  | TREE - DECIDUOUS      |  | EASEMENT                 |
|  | CABLE RISER          |  | BUSH                  |  | EX. FENCE                |
|  | CATCH BASIN          |  | BRUSH LINE            |  | RIGHT-OF-WAY LINE        |
|  | CURB INLET           |  | TREE LINE (DRIP LINE) |  | EX. RIVER CENTERLINE     |
|  | ELECT. TRANSFORMER   |  | LANDSCAPE BED         |  | EX. STREAM CENTERLINE    |
|  | END SECTION          |  | MONITORING WELL       |  | EX. SWALE CENTERLINE     |
|  | GUY WIRE             |  | SOIL BORING           |  | EX. CABLE TELEVISION     |
|  | FIRE HYDRANT         |  | TEST PIT              |  | EX. COMMUNICATION        |
|  | LIGHT POLE           |  |                       |  | EX. UNDERGROUND ELECTRIC |
|  | MANHOLE              |  |                       |  | EX. FIBER OPTIC          |
|  | SHUT OFF VALVE       |  |                       |  | EX. HOT WATER (STEAM)    |
|  | UTILITY MARKER       |  |                       |  | EX. OVERHEAD UTILITY     |
|  | UTILITY POLE         |  |                       |  | EX. SANITARY SEWER       |
|  | WELL                 |  |                       |  | EX. STORM SEWER          |
|  | BOLLARD              |  |                       |  | EX. WATER MAIN           |
|  | HANDICAP SYMBOL      |  |                       |  | EX. GAS                  |
|  | MAILBOX              |  |                       |  |                          |

REFER TO DRAWING G0.3 FOR SURVEY NOTES.

DRAWING TITLE  
**TOPOGRAPHICAL SURVEY - AREA E**

GRAPHIC SCALE  
TAKES PRECEDENCE  
FULL SIZE SCALE (24x36)  
1"=20'-0"  
24708.003

PROJECT NUMBER  
**M-V1.5**

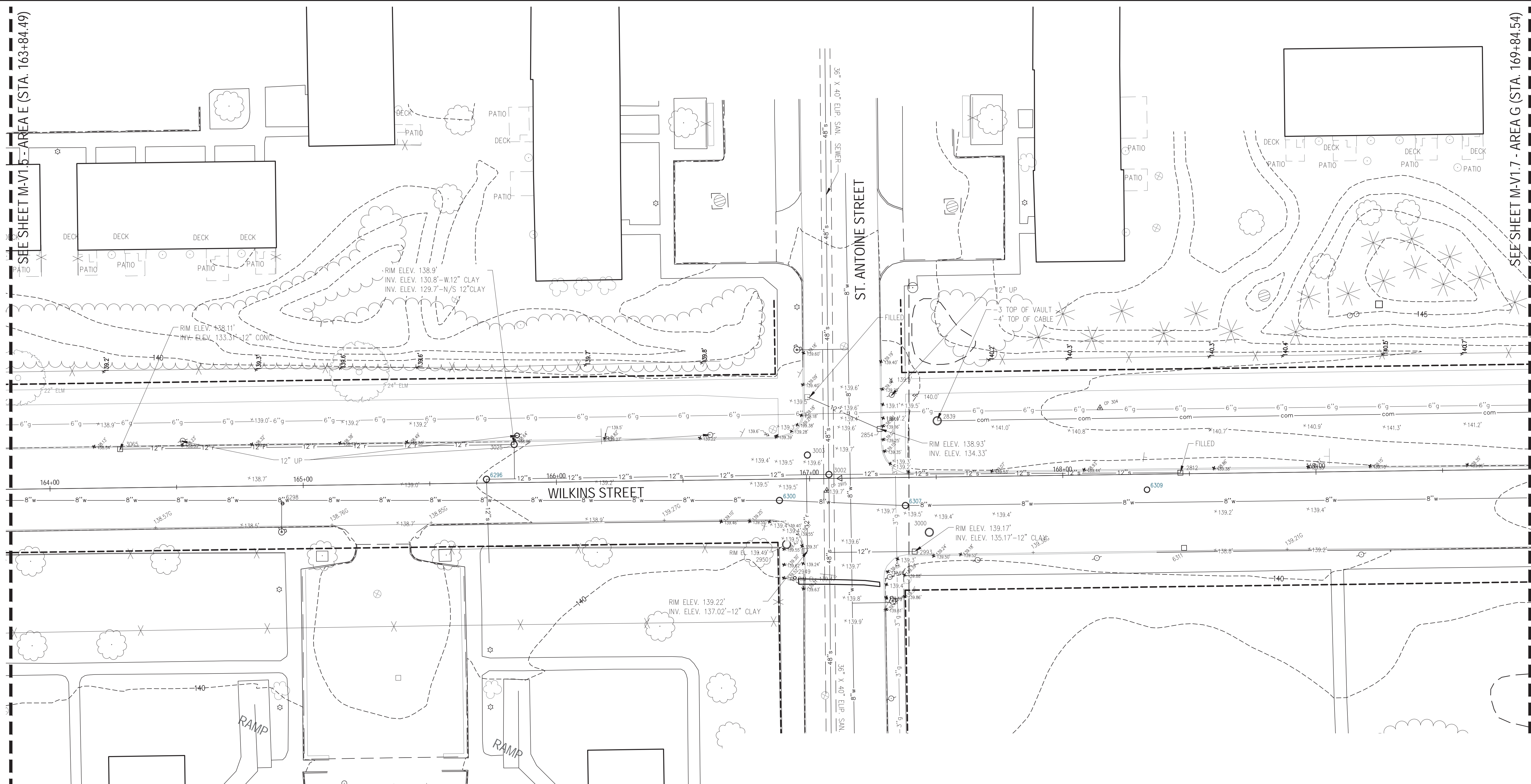
DRAWING NUMBER  
222 of 497



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SEE SHEET M-V1.5 - AREA E (STA. 163+84.49)

SEE SHEET M-V1.7 - AREA G (STA. 169+84.54)



**Midtown Loop Phase IV**  
 Midtown Loop  
 Detroit, Michigan

MDOT  
 Michigan Department of Transportation

Owners:  
 City of Detroit

MIDTOWN  
 DETROIT, INC.

Midtown Detroit, Inc.

**SMITHGROUP JJR**

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80% CONSTRUCTION DOCUMENTS	1	JAN 07, 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05, 2012

SEALS AND SIGNATURES

KEY PLAN

Project North

**SURVEY LEGEND**

- |  |                      |  |                       |  |                         |
|--|----------------------|--|-----------------------|--|-------------------------|
|  | SECTION CORNER       |  | POST - ROUND          |  | EX. TOPO CONTOUR        |
|  | BENCHMARK            |  | POST - SQUARE         |  | EX. DITCH CENTERLINE    |
|  | CONTROL POINT        |  | SIGN                  |  | EDGE OF GRAVEL          |
|  | FOUND IRON PIPE      |  | SIGN - DOUBLE POST    |  | EDGE OF SHOULDER        |
|  | FOUND CONC. MONUMENT |  | SPRINKLER HEAD        |  | EDGE OF WATER           |
|  | SET IRON PIPE        |  | TREE - CONIFEROUS     |  | EDGE OF WETLAND         |
|  | SET CONC. MONUMENT   |  | TREE - DECIDUOUS      |  | EASEMENT                |
|  | CABLE RISER          |  | BUSH                  |  | EX. FENCE               |
|  | CATCH BASIN          |  | BRUSH LINE            |  | RIGHT-OF-WAY LINE       |
|  | CURB INLET           |  | TREE LINE (DRIP LINE) |  | EX. RIVER CENTERLINE    |
|  | ELECT. TRANSFORMER   |  | LANDSCAPE BED         |  | EX. STREAM CENTERLINE   |
|  | END SECTION          |  | MONITORING WELL       |  | EX. SIALVE CENTERLINE   |
|  | GUY WIRE             |  | SOIL BORING           |  | EX. CABLE TELEVISION    |
|  | FIRE HYDRANT         |  | TEST PIT              |  | EX. COMMUNICATION       |
|  | LIGHT POLE           |  |                       |  | EX. UNDERGROUD ELECTRIC |
|  | MANHOLE              |  |                       |  | EX. FIBER OPTIC         |
|  | SHUT OFF VALVE       |  |                       |  | EX. HOT WATER (STEAM)   |
|  | UTILITY MARKER       |  |                       |  | EX. OVERHEAD UTILITY    |
|  | UTILITY POLE         |  |                       |  | EX. SANITARY SEWER      |
|  | WELL                 |  |                       |  | EX. STORM SEWER         |
|  | BOLLARD              |  |                       |  | EX. WATER MAIN          |
|  | HANDICAP SYMBOL      |  |                       |  | EX. GAS                 |
|  | MAILBOX              |  |                       |  |                         |

REFER TO DRAWING G0.3 FOR SURVEY NOTES.



DRAWING TITLE  
**TOPOGRAPHICAL SURVEY - AREA F**

GRAPHIC SCALE  
 TAKES PRECEDENCE  
 FULL SIZE SCALE (24x36)  
 1" = 20'-0"  
 24708.003

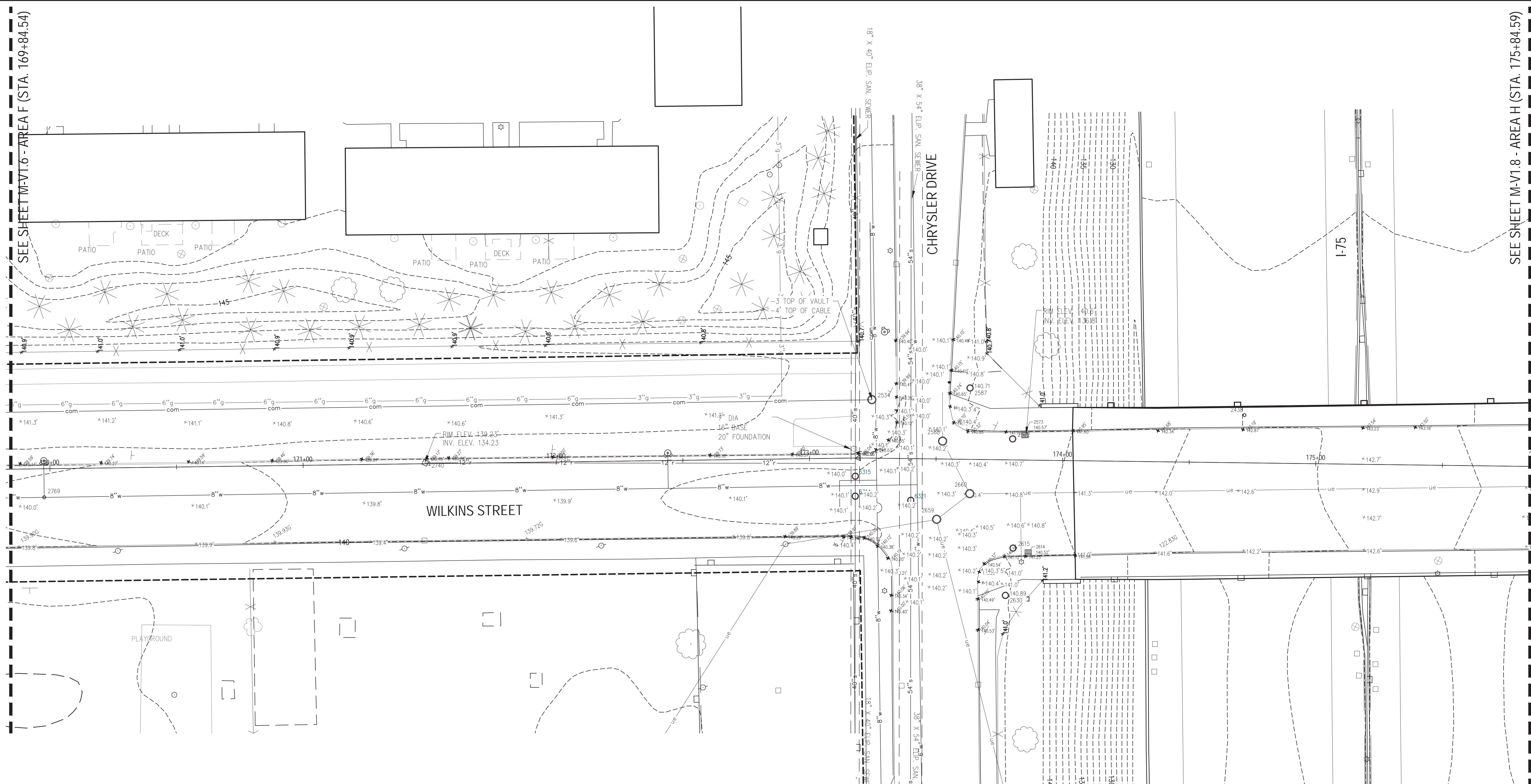
PROJECT NUMBER  
**M-V1.6**

DRAWING NUMBER  
 223 of 497

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SEE SHEET M-V1.6 - AREA F (STA. 169+84.54)

SEE SHEET M-V1.8 - AREA H (STA. 175+84.59)



**SURVEY LEGEND**

- |  |                      |  |                       |  |                          |
|--|----------------------|--|-----------------------|--|--------------------------|
|  | SECTION CORNER       |  | POST - ROUND          |  | EX. TOPO CONTOUR         |
|  | BENCHMARK            |  | POST - SQUARE         |  | EX. DITCH CENTERLINE     |
|  | CONTROL POINT        |  | SIGN                  |  | EDGE OF GRAVEL           |
|  | FOUND IRON PIPE      |  | SIGN - DOUBLE POST    |  | EDGE OF SHOULDER         |
|  | FOUND CONC. MONUMENT |  | SPRINKLER HEAD        |  | EDGE OF WATER            |
|  | SET IRON PIPE        |  | TREE - CONIFEROUS     |  | EDGE OF WETLAND          |
|  | SET CONC. MONUMENT   |  | TREE - DECIDUOUS      |  | EASEMENT                 |
|  | CABLE RISER          |  | BUSH                  |  | EX. FENCE                |
|  | CATCH BASIN          |  | BRUSH LINE            |  | RIGHT-OF-WAY LINE        |
|  | CURB INLET           |  | TREE LINE (DRIP LINE) |  | EX. RIVER CENTERLINE     |
|  | ELECT. TRANSFORMER   |  | LANDSCAPE BED         |  | EX. STREAM CENTERLINE    |
|  | END SECTION          |  | MONITORING WELL       |  | EX. SWALE CENTERLINE     |
|  | GUY WIRE             |  | SOIL BORING           |  | EX. CABLE TELEVISION     |
|  | FIRE HYDRANT         |  | TEST PIT              |  | EX. COMMUNICATION        |
|  | LIGHT POLE           |  |                       |  | EX. UNDERGROUND ELECTRIC |
|  | MANHOLE              |  |                       |  | EX. FIBER OPTIC          |
|  | SHUT OFF VALVE       |  |                       |  | EX. HOT WATER (STEAM)    |
|  | UTILITY MARKER       |  |                       |  | EX. OVERHEAD UTILITY     |
|  | UTILITY POLE         |  |                       |  | EX. SANITARY SEWER       |
|  | WELL                 |  |                       |  | EX. STORM SEWER          |
|  | BOLLARD              |  |                       |  | EX. WATER MAIN           |
|  | HANDICAP SYMBOL      |  |                       |  | EX. GAS                  |
|  | MAILBOX              |  |                       |  |                          |

REFER TO DRAWING G0.3 FOR SURVEY NOTES.

**Midtown Loop  
Phase IV**

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



Midtown Detroit, Inc.

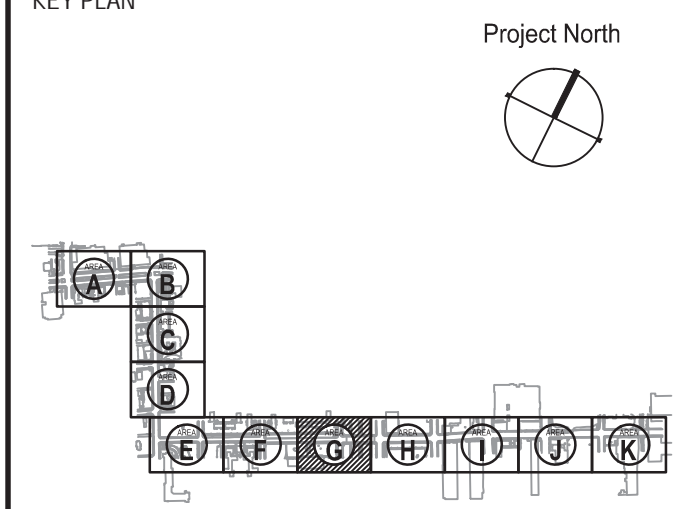
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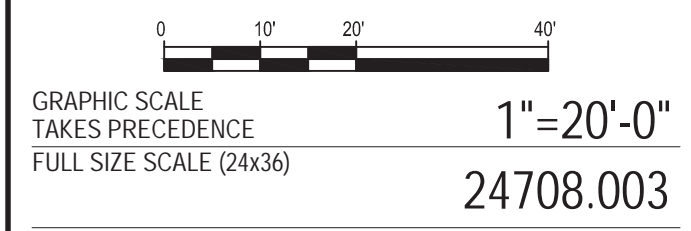
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BIDDING DOCUMENTS	4	MAY 02 2013
100% CONSTRUCTION DOCUMENTS	3	APR 01 2013
GRADE INSPECTION	2	JAN 30 2013
80% CONSTRUCTION DOCUMENTS	1	JAN 07 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05 2012

SEALS AND SIGNATURES

KEY PLAN



**DRAWING TITLE**  
TOPOGRAPHICAL  
SURVEY - AREA G



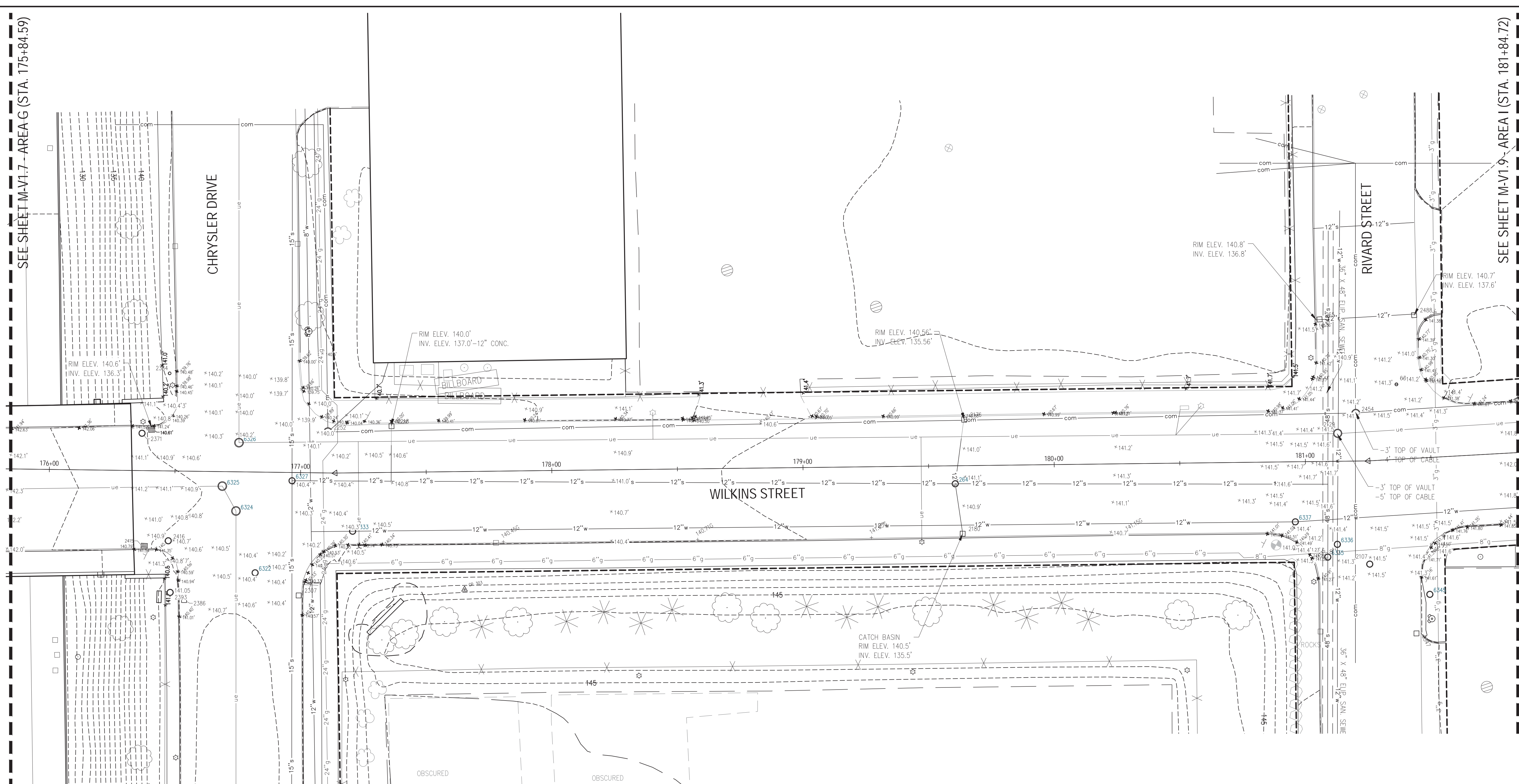
PROJECT NUMBER  
**M-V1.7**  
DRAWING NUMBER



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FILE: P:\24708\003\Phase-IV\CAD\Sheet\24708-004-SURV-SHT.dwg USER: jyoung DATE: May 21 2013 TIME: 04:42 pm



SEE SHEET M-V1.7 - AREA G (STA. 175+84.59)

SEE SHEET M-V1.9 - AREA I (STA. 181+84.72)

# Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



**MIDTOWN**  
DETROIT

Midtown Detroit, Inc.

**SMITHGROUP JJR**

201 DEPOT STREET  
SECOND FLOOR  
ANN ARBOR, MI 48104  
734.662.4457  
www.smithgroupjjr.com

ISSUED FOR	REV	DATE
BIDDING DOCUMENTS	5	MAY 21 2013
BIDDING DOCUMENTS	4	MAY 02 2013
100% CONSTRUCTION DOCUMENTS	3	APR 01 2013
GRADE INSPECTION	2	JAN 30 2013
80% CONSTRUCTION DOCUMENTS	1	JAN 07 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05 2012

SEALS AND SIGNATURES

KEY PLAN

Project North

### SURVEY LEGEND

- |  |                      |  |                       |  |                         |
|--|----------------------|--|-----------------------|--|-------------------------|
|  | SECTION CORNER       |  | POST - ROUND          |  | EX. TOPO CONTOUR        |
|  | BENCHMARK            |  | POST - SQUARE         |  | EX. DITCH CENTERLINE    |
|  | CONTROL POINT        |  | SIGN                  |  | EDGE OF GRAVEL          |
|  | FOUND IRON PIPE      |  | SIGN - DOUBLE POST    |  | EDGE OF SHOULDER        |
|  | FOUND CONC. MONUMENT |  | SPRINKLER HEAD        |  | EDGE OF WATER           |
|  | SET IRON PIPE        |  | TREE - CONIFEROUS     |  | EDGE OF WETLAND         |
|  | SET CONC. MONUMENT   |  | TREE - DECIDUOUS      |  | EASEMENT                |
|  | CABLE RISER          |  | BUSH                  |  | EX. FENCE               |
|  | CATCH BASIN          |  | BRUSH LINE            |  | RIGHT-OF-WAY LINE       |
|  | CURB INLET           |  | TREE LINE (DRIP LINE) |  | EX. RIVER CENTERLINE    |
|  | ELECT. TRANSFORMER   |  | LANDSCAPE BED         |  | EX. STREAM CENTERLINE   |
|  | END SECTION          |  | MONITORING WELL       |  | EX. SIDAL CENTERLINE    |
|  | GUY WIRE             |  | SOIL BORING           |  | EX. CABLE TELEVISION    |
|  | FIRE HYDRANT         |  | TEST PIT              |  | EX. COMMUNICATION       |
|  | LIGHT POLE           |  |                       |  | EX. UNDERGROUD ELECTRIC |
|  | MANHOLE              |  |                       |  | EX. FIBER OPTIC         |
|  | SHUT OFF VALVE       |  |                       |  | EX. HOT WATER (STEAM)   |
|  | UTILITY MARKER       |  |                       |  | EX. OVERHEAD UTILITY    |
|  | UTILITY POLE         |  |                       |  | EX. SANITARY SEWER      |
|  | WELL                 |  |                       |  | EX. STORM SEWER         |
|  | BOLLARD              |  |                       |  | EX. WATER MAIN          |
|  | HANDICAP SYMBOL      |  |                       |  | EX. GAS                 |
|  | MAILBOX              |  |                       |  |                         |

REFER TO DRAWING G0.3 FOR SURVEY NOTES.

DRAWING TITLE

## TOPOGRAPHICAL SURVEY - AREA H

GRAPHIC SCALE  
TAKES PRECEDENCE  
FULL SIZE SCALE (24x36)

1"=20'-0"  
24708.003

PROJECT NUMBER

# M-V1.8

DRAWING NUMBER

225 of 497



SEE SHEET M-V1.8 - AREA H (STA. 181+84.72)

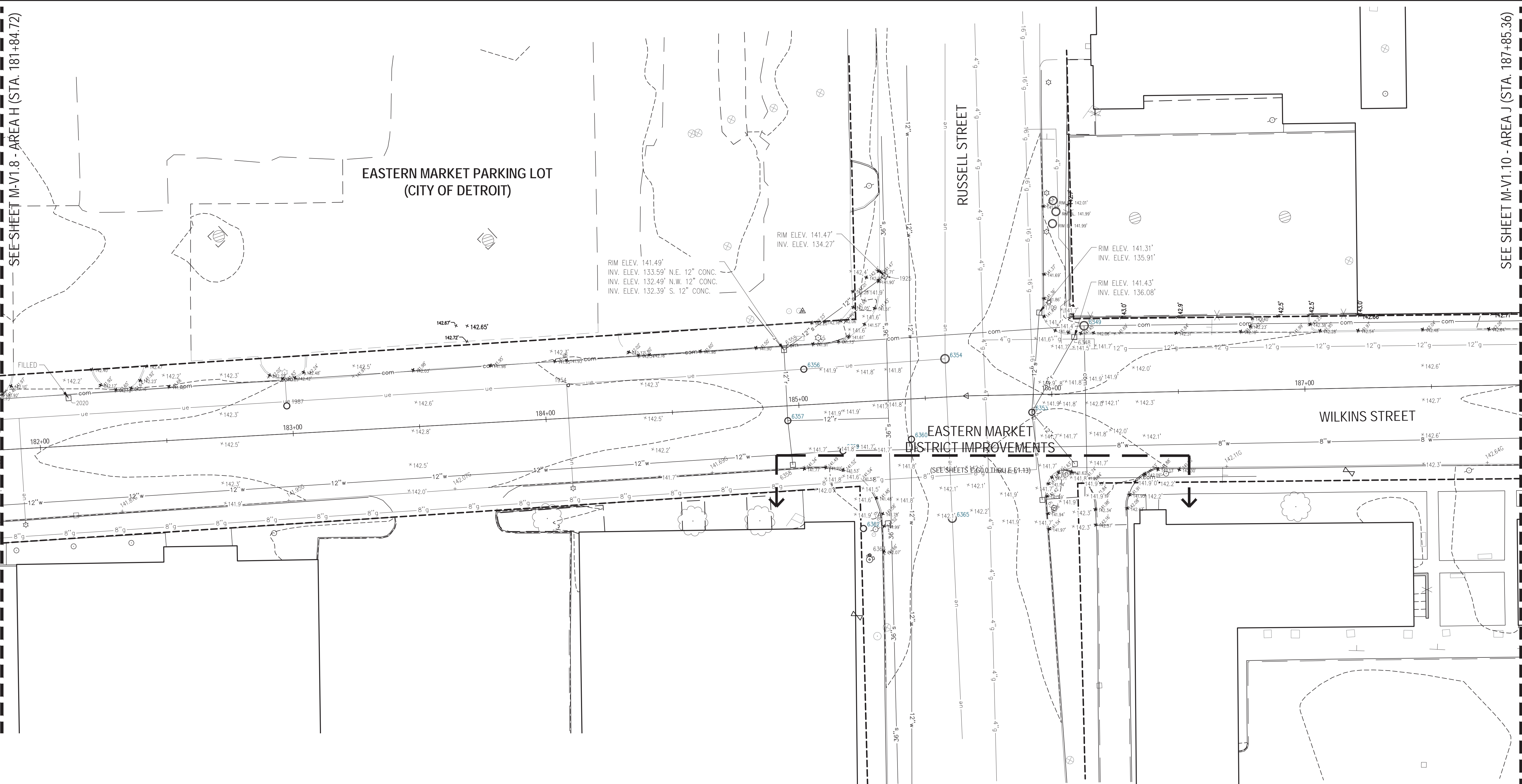
SEE SHEET M-V1.10 - AREA J (STA. 187+85.36)

EASTERN MARKET PARKING LOT  
(CITY OF DETROIT)

RUSSELL STREET

WILKINS STREET

EASTERN MARKET  
DISTRICT IMPROVEMENTS



Midtown Loop  
Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



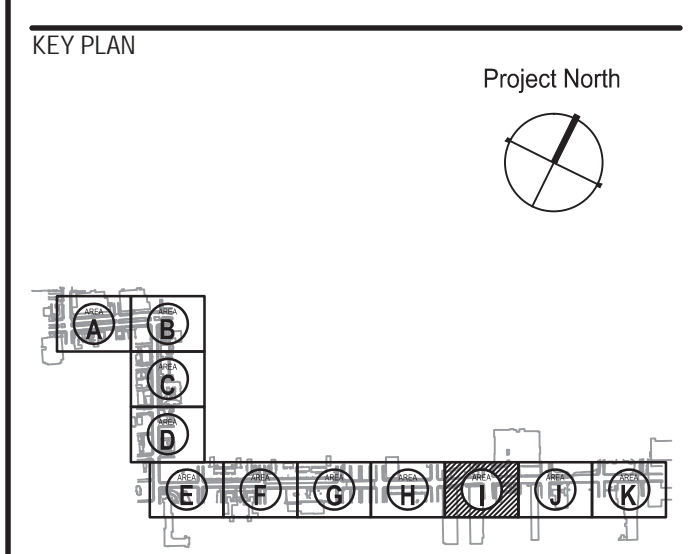
Midtown Detroit, Inc.

SMITHGROUP JJR

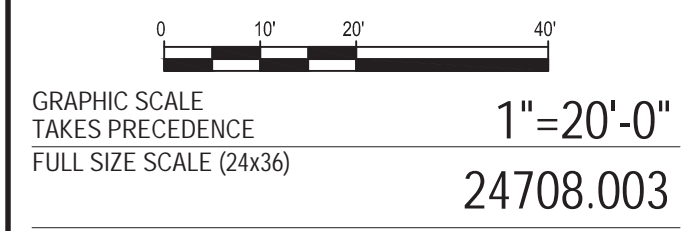
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BIDDING DOCUMENTS	5	MAY 21, 2013
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GRADE INSPECTION	2	JAN 30, 2013
80% CONSTRUCTION DOCUMENTS	1	JAN 07, 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05, 2012

SEALS AND SIGNATURES



DRAWING TITLE  
**TOPOGRAPHICAL  
SURVEY - AREA I**



PROJECT NUMBER  
**M-V1.9**  
DRAWING NUMBER  
226 of 497



SURVEY LEGEND

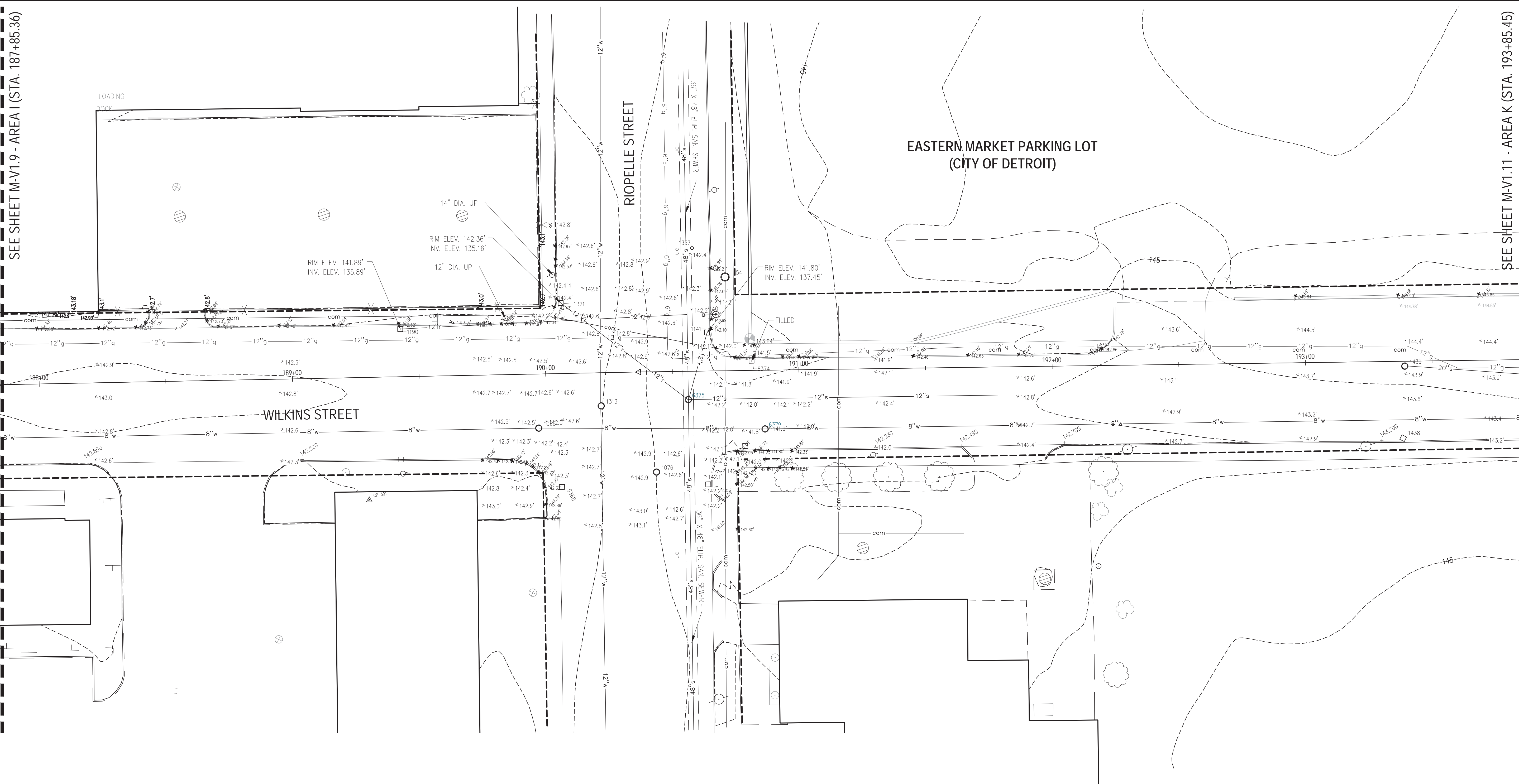
- |  |                      |  |                       |  |                          |
|--|----------------------|--|-----------------------|--|--------------------------|
|  | SECTION CORNER       |  | POST - ROUND          |  | EX. TOPO CONTOUR         |
|  | BENCHMARK            |  | POST - SQUARE         |  | EX. DITCH CENTERLINE     |
|  | CONTROL POINT        |  | SIGN                  |  | EDGE OF GRAVEL           |
|  | FOUND IRON PIPE      |  | SIGN - DOUBLE POST    |  | EDGE OF SHOULDER         |
|  | FOUND CONC. MONUMENT |  | SPRINKLER HEAD        |  | EDGE OF WATER            |
|  | SET IRON PIPE        |  | TREE - CONIFEROUS     |  | EDGE OF WETLAND          |
|  | SET CONC. MONUMENT   |  | TREE - DECIDUOUS      |  | EASEMENT                 |
|  | CABLE RISER          |  | BUSH                  |  | EX. FENCE                |
|  | CATCH BASIN          |  | BRUSH LINE            |  | RIGHT-OF-WAY LINE        |
|  | CURB INLET           |  | TREE LINE (DRIP LINE) |  | EX. RIVER CENTERLINE     |
|  | ELECT. TRANSFORMER   |  | LANDSCAPE BED         |  | EX. STREAM CENTERLINE    |
|  | END SECTION          |  | MONITORING WELL       |  | EX. SWALE CENTERLINE     |
|  | GUY WIRE             |  | SOIL BORING           |  | EX. CABLE TELEVISION     |
|  | FIRE HYDRANT         |  | TEST PIT              |  | EX. COMMUNICATION        |
|  | LIGHT POLE           |  |                       |  | EX. UNDERGROUND ELECTRIC |
|  | MANHOLE              |  |                       |  | EX. FIBER OPTIC          |
|  | SHUT OFF VALVE       |  |                       |  | EX. HOT WATER (STEAM)    |
|  | UTILITY MARKER       |  |                       |  | EX. OVERHEAD UTILITY     |
|  | UTILITY POLE         |  |                       |  | EX. SANITARY SEWER       |
|  | WELL                 |  |                       |  | EX. STORM SEWER          |
|  | BOLLARD              |  |                       |  | EX. WATER MAIN           |
|  | HANDICAP SYMBOL      |  |                       |  | EX. GAS                  |
|  | MAILBOX              |  |                       |  |                          |

REFER TO DRAWING G0.3 FOR SURVEY NOTES.

FILE: P:\24708\003\Phase-IV\CAD\Sheet\24708-004-SURV-SHT.dwg USER: jyoung DATE: May 21 2013 TIME: 04:42 pm

SEE SHEET M-V1.9 - AREA I (STA. 187+85.36)

SEE SHEET M-V1.11 - AREA K (STA. 193+85.45)



**EASTERN MARKET PARKING LOT  
(CITY OF DETROIT)**

**Midtown Loop  
Phase IV**

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



Midtown Detroit, Inc.

**SMITHGROUP JJR**

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SEALS AND SIGNATURES

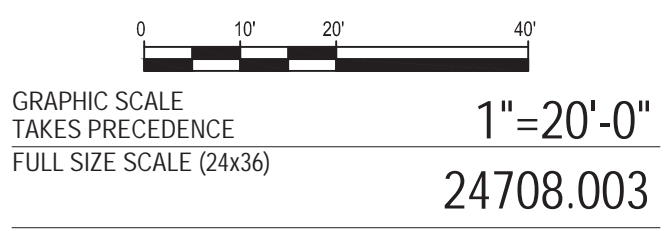


**SURVEY LEGEND**

- |  |                      |  |                       |  |                          |
|--|----------------------|--|-----------------------|--|--------------------------|
|  | SECTION CORNER       |  | POST - ROUND          |  | EX. TOPO CONTOUR         |
|  | BENCHMARK            |  | POST - SQUARE         |  | EX. DITCH CENTERLINE     |
|  | CONTROL POINT        |  | SIGN                  |  | EDGE OF GRAVEL           |
|  | FOUND IRON PIPE      |  | SIGN - DOUBLE POST    |  | EDGE OF SHOULDER         |
|  | FOUND CONC. MONUMENT |  | SPRINKLER HEAD        |  | EDGE OF WATER            |
|  | SET IRON PIPE        |  | TREE - CONIFEROUS     |  | EDGE OF WETLAND          |
|  | SET CONC. MONUMENT   |  | TREE - DECIDUOUS      |  | EASEMENT                 |
|  | CABLE RISER          |  | BUSH                  |  | EX. FENCE                |
|  | CATCH BASIN          |  | BRUSH LINE            |  | RIGHT-OF-WAY LINE        |
|  | CURB INLET           |  | TREE LINE (DRIP LINE) |  | EX. RIVER CENTERLINE     |
|  | ELECT. TRANSFORMER   |  | LANDSCAPE BED         |  | EX. STREAM CENTERLINE    |
|  | END SECTION          |  | MONITORING WELL       |  | EX. SWALE CENTERLINE     |
|  | GUY WIRE             |  | SOIL BORING           |  | EX. CABLE TELEVISION     |
|  | FIRE HYDRANT         |  | TEST PIT              |  | EX. COMMUNICATION        |
|  | LIGHT POLE           |  |                       |  | EX. UNDERGROUND ELECTRIC |
|  | MANHOLE              |  |                       |  | EX. FIBER OPTIC          |
|  | SHUT OFF VALVE       |  |                       |  | EX. HOT WATER (STEAM)    |
|  | UTILITY MARKER       |  |                       |  | EX. OVERHEAD UTILITY     |
|  | UTILITY POLE         |  |                       |  | EX. SANITARY SEWER       |
|  | WELL                 |  |                       |  | EX. STORM SEWER          |
|  | BOLLARD              |  |                       |  | EX. WATER MAIN           |
|  | HANDICAP SYMBOL      |  |                       |  | EX. GAS                  |
|  | MAILBOX              |  |                       |  |                          |

REFER TO DRAWING G0.3 FOR SURVEY NOTES.

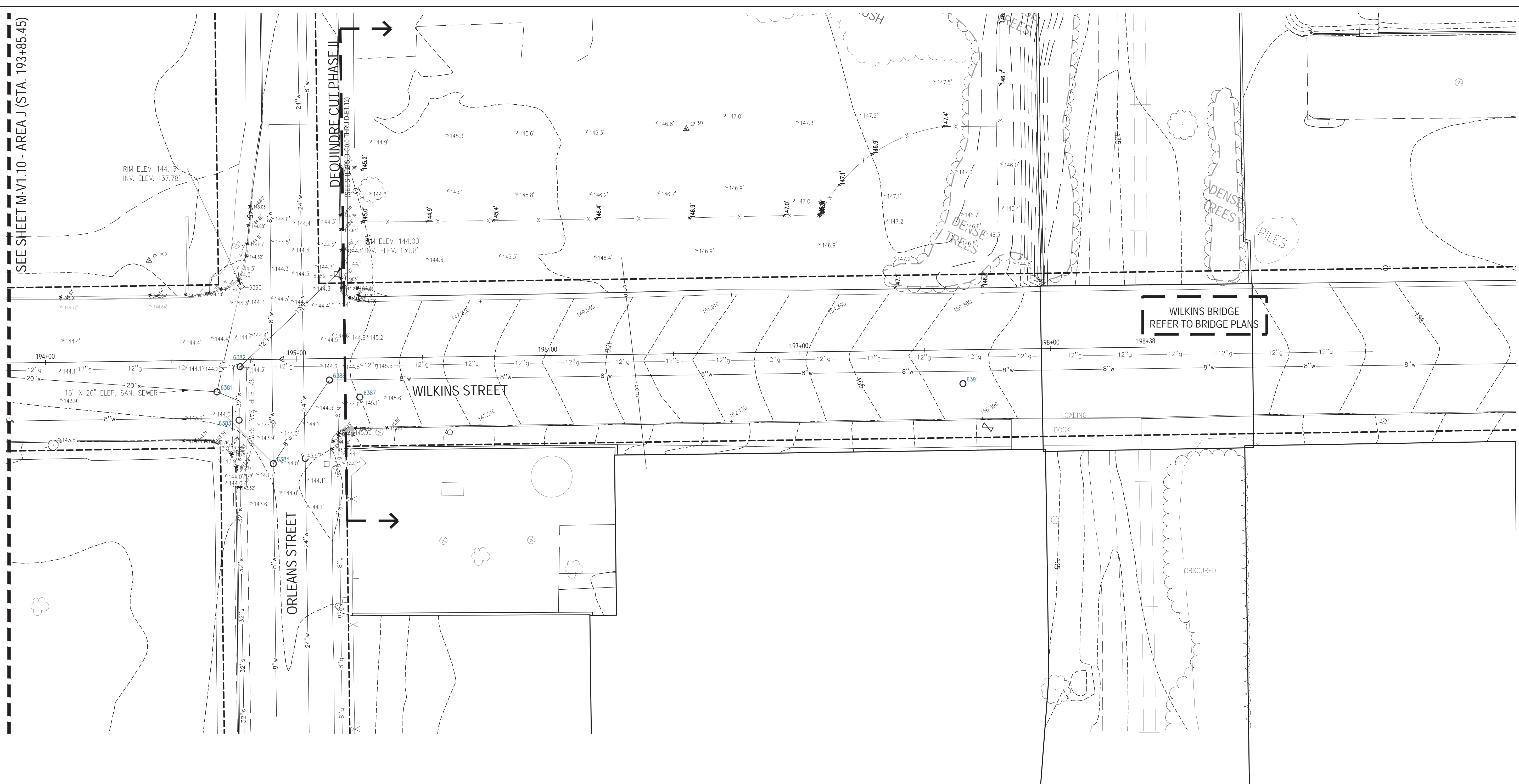
**DRAWING TITLE**  
TOPOGRAPHICAL  
SURVEY - AREA J



PROJECT NUMBER  
**M-V1.10**  
DRAWING NUMBER  
227 of 497



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SEE SHEET M-V1.10 - AREA J (STA. 193+85.45)

**SURVEY LEGEND**

	SECTION CORNER		POST - ROUND		EX. TOPO CONTOUR
	BENCHMARK		POST - SQUARE		EX. DITCH CENTERLINE
	CONTROL POINT		SIGN		EDGE OF GRAVEL
	FOUND IRON PIPE		SIGN - DOUBLE POST		EDGE OF SHOULDER
	FOUND CONC. MONUMENT		SPRINKLER HEAD		EDGE OF WATER
	SET IRON PIPE		TREE - CONIFEROUS		EDGE OF WETLAND
	SET CONC. MONUMENT		TREE - DECIDUOUS		EASEMENT
	CABLE RISER		BUSH		EX. FENCE
	CATCH BASIN		BRUSH LINE		RIGHT-OF-WAY LINE
	CURB INLET		TREE LINE (DRIP LINE)		EX. RIVER CENTERLINE
	ELECT. TRANSFORMER		LANDSCAPE BED		EX. STREAM CENTERLINE
	END SECTION		MONITORING WELL		EX. SWALE CENTERLINE
	GUY WIRE		SOIL BORING		EX. CABLE TELEVISION
	FIRE HYDRANT		TEST PIT		EX. COMMUNICATION
	LIGHT POLE				EX. UNDERGROUND ELECTRIC
	MANHOLE				EX. FIBER OPTIC
	SHUT OFF VALVE				EX. HOT WATER (STEAM)
	UTILITY MARKER				EX. OVERHEAD UTILITY
	UTILITY POLE				EX. SANITARY SEWER
	WELL				EX. STORM SEWER
	BOLLARD				EX. WATER MAIN
	HANDICAP SYMBOL				EX. GAS
	MAILBOX				

REFER TO DRAWING G0.3 FOR SURVEY NOTES.

# Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



Owners:  
  
City of Detroit



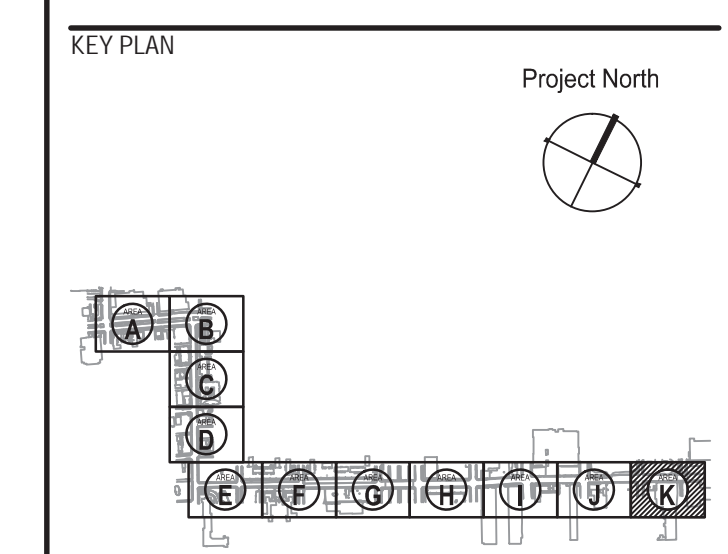
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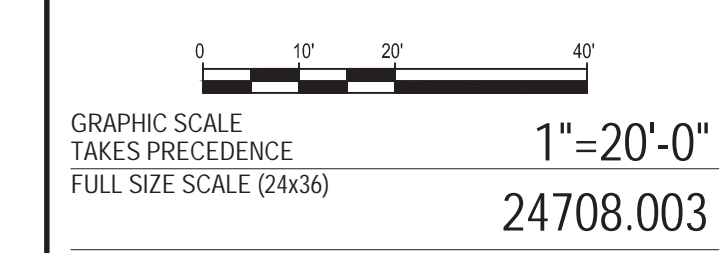
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100% CONSTRUCTION DOCUMENTS	3	APR 01, 2013
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80% CONSTRUCTION DOCUMENTS	1	JAN 07, 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05, 2012

SEALS AND SIGNATURES



### DRAWING TITLE

## TOPOGRAPHICAL SURVEY - AREA K



PROJECT NUMBER  
**M-V1.11**  
DRAWING NUMBER  
228 of 497



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# Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



Midtown Detroit, Inc.

## SMITHGROUP JJR

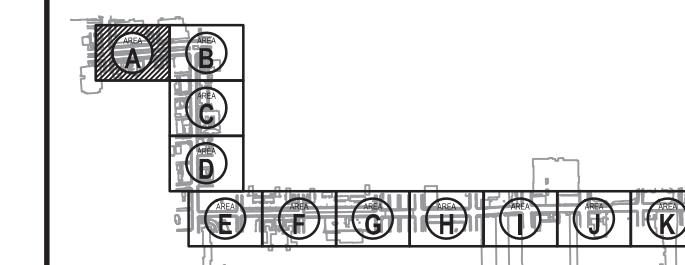
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SECOND FLOOR  
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GRADE INSPECTION	2	JAN 30, 2013
80% CONSTRUCTION DOCUMENTS	1	JAN 07, 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05, 2012

SEALS AND SIGNATURES

KEY PLAN

Project North



DRAWING TITLE

### DEMOLITION AND EROSION CONTROL PLAN - AREA A

GRAPHIC SCALE  
TAKES PRECEDENCE  
FULL SIZE SCALE (24x36)  
1" = 20'-0"  
24708.003

PROJECT NUMBER

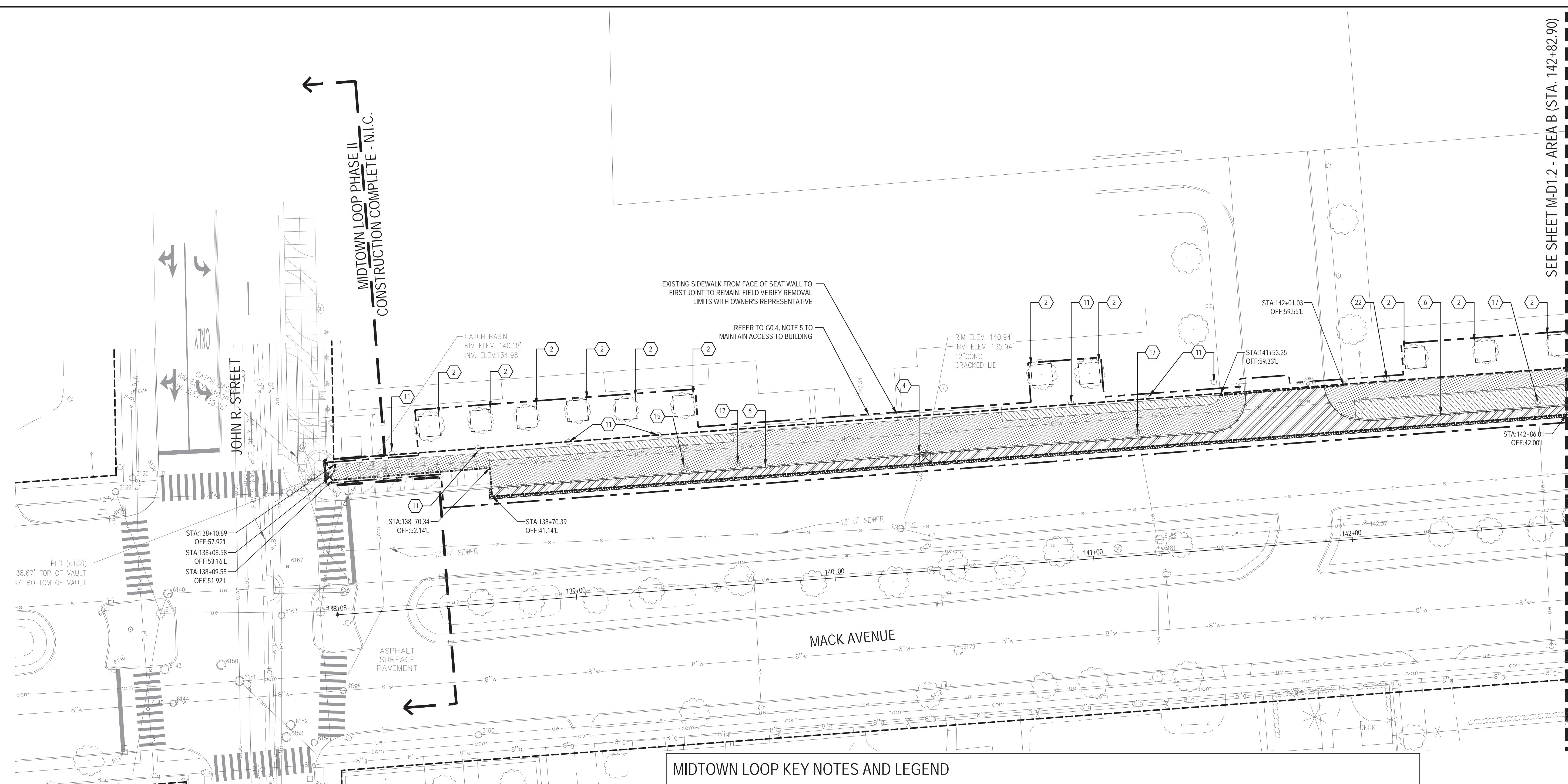
M-D1.1

DRAWING NUMBER

231 of 497



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### MIDTOWN LOOP KEY NOTES AND LEGEND

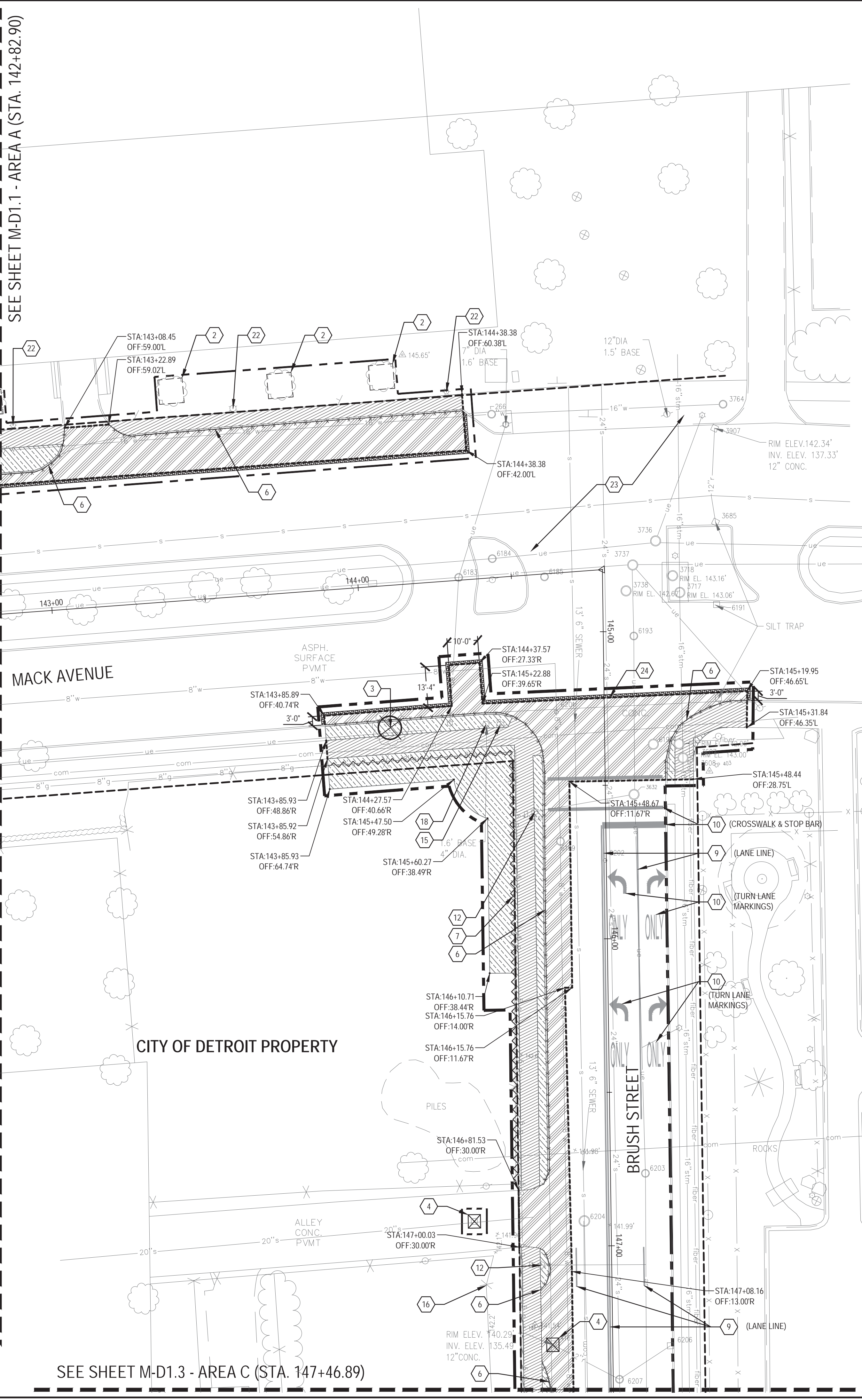
DEMOLITION AND EROSION CONTROL						
---	CONSTRUCTION LIMIT LINE	3	⊗	TREE, REM, 6 INCH TO 18 INCH	15	FOR HYDRANT MODIFICATIONS, REFER TO UTILITY ADJUSTMENT PLANS
- - - -	RIGHT - OF - WAY LINE	4	⊠	EROSION CONTROL, INLET PROTECTION, FABRIC DROP (R-26-E)	16	FENCE TO REMAIN
---	MATCH LINE	5	////	_CURB, REM, MODIFIED	17	STREET LIGHT TO REMAIN
---	HORIZONTAL ALIGNMENT	6	-----	_CURB REMOVAL INCIDENTAL TO _PAVT. REM, MODIFIED	18	PEDESTRIAN TRAFFIC SIGNAL TO REMAIN
---	STATION AND OFFSET POINT	7	~~~~~	FENCE, REM	19	TRAFFIC SIGNAL TO REMAIN
---	ADJACENT PROJECT	8	---	_BOLLARD, REM	20	CONTROL CABINET TO REMAIN
---	SAWCUT PAVEMENT	9	---	PAVT MRKG, LONGIT, 6 INCH OR LESS WIDTH, REM	21	UTILITY POLE TO REMAIN
---	SIDEWALK, REM	10	---	REM SPEC MRKG	22	PEDESTRIAN LIGHT TO BE REMOVED BY OTHERS
---	_PAVT. REM, MODIFIED (FULL PAVEMENT DEPTH REMOVAL INCLUDING SUB-BASE MATERIAL. MAY INCLUDE BRICK / CONCRETE / HMA / AGGREGATE)	11	---	_PEDESTRIAN LIGHT, REM (SEE ELECTRICAL PLANS)	23	COORDINATE CONSTRUCTION ACTIVITIES WITH ADJACENT PROJECT UNDER CONSTRUCTION BY DMC. SIDEWALK RAMPS OUTSIDE OF PROJECT CONSTRUCTION LIMITS TO BE REPLACED BY DMC.
---	COLD MILLING HMA SURFACE (1'-0" WIDE)	12	---	_FIXTURE TYPE M2, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)	24	FIELD VERIFY SAWCUT LOCATIONS TO COORDINATE WITH EXISTING CHANGES IN PAVEMENT TYPES AND EXISTING JOINTS WITH ENGINEER PRIOR TO PROCEEDING WITH WORK.
---	_CLEARING, MODIFIED (REMOVE LAWN / TREE / SHRUB MASS, STUMP, ROOT STRUCTURE & STEEL EDGING DEBRIS)	13	---	_CONTROL CABINET, RELOCATED (REFER TO ELECTRICAL PLANS)	25	PAVEMENT MARKING TO REMAIN
---	_RETAINING WALL, CONC, REM	14	---	REFER TO ##### FOR TRAFFIC SIGNALIZATION CHANGES	26	NO WORK ON BRIDGE EXCEPT FOR PAVEMENT MARKINGS
---	_TREE PROTECTION FENCE	2	---			

M-D1.1 - DEMOLITION & EROSION CONTROL		
QTY	UNIT	ITEM DESCRIPTION
475	Syd	Sidewalk, Rem
216	Syd	Pav, Rem, Modified
47	Syd	Cold Milling HMA Surface
0	Ft	_Curb, Rem, Modified
11	Ea	_Tree Protection Fence
0	Ea	Tree, Rem, 6 inch to 18 inch
0	Acre	_Clearing, Modified
0	Ft	Fence, Rem
0	Ea	_Bollard, Rem
0	St	_Retaining Wall, Conc, Rem
1	Ea	Erosion Control, Inlet Protection, Fabric Drop
1	Ea	Erosion Control, Maintenance, Sediment Removal
1	LS	Property Access, Protection, Temp
0	Ft	Pavt Mrkg, Longit, 6 inches or Less Width, Rem
0	St	Rem Spec Mrkg

- NOTES:
- REFER TO SHEET G0.4 FOR DEMO AND EROSION NOTES.
  - REFER TO SHEET M-V1.0 FOR SURVEY LEGEND.

FILE: P:\24708\003\Phase-IV\CAD\Sheet\24708-004-DEM0-SHT.dwg USER: young DATE: May 21, 2013 TIME: 04:44 pm

SEE SHEET M-D1.1 - AREA A (STA. 142+82.90)



SEE SHEET M-D1.3 - AREA C (STA. 147+46.89)

MIDTOWN LOOP KEY NOTES AND LEGEND

		DEMOLITION AND EROSION CONTROL				
---	CONSTRUCTION LIMIT LINE	3	⊗	TREE, REM, 6 INCH TO 18 INCH	15	FOR HYDRANT MODIFICATIONS, REFER TO UTILITY ADJUSTMENT PLANS
- - - -	RIGHT - OF - WAY LINE	4	⊗	EROSION CONTROL, INLET PROTECTION, FABRIC DROP (R-26-E)	16	FENCE TO REMAIN
- - - -	MATCH LINE	5	////	_CURB, REM, MODIFIED	17	STREET LIGHT TO REMAIN
171+00	HORIZONTAL ALIGNMENT	6	-----	CURB REMOVAL INCIDENTAL TO _PAVT, REM, MODIFIED	18	PEDESTRIAN TRAFFIC SIGNAL TO REMAIN
↖	STATION AND OFFSET POINT	7	~~~~~	FENCE, REM	19	TRAFFIC SIGNAL TO REMAIN
---	ADJACENT PROJECT	8	---	_BOLLARD, REM	20	CONTROL CABINET TO REMAIN
---	SAWCUT PAVEMENT	9	---	PAVT MRKG, LONGIT, 6 INCH OR LESS WIDTH, REM	21	UTILITY POLE TO REMAIN
▨	SIDEWALK, REM	10	---	REM SPEC MRKG	22	PEDESTRIAN LIGHT TO BE REMOVED BY OTHERS
▨	_PAVT, REM, MODIFIED (FULL PAVEMENT DEPTH REMOVAL INCLUDING SUB-BASE MATERIAL MAY INCLUDE BRICK / CONCRETE / HMA / AGGREGATE)	11	---	_PEDESTRIAN LIGHT, REM (SEE ELECTRICAL PLANS)	23	COORDINATE CONSTRUCTION ACTIVITIES WITH ADJACENT PROJECT UNDER CONSTRUCTION BY DMC. SIDEWALK RAMP OUTSIDE OF PROJECT CONSTRUCTION LIMITS TO BE REPLACED BY DMC.
▨	COLD MILLING HMA SURFACE (1'-0" WIDE)	12	---	_FIXTURE TYPE M2, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)	24	FIELD VERIFY SAWCUT LOCATIONS TO COORDINATE WITH EXISTING CHANGES IN PAVEMENT TYPES AND EXISTING JOINTS WITH ENGINEER PRIOR TO PROCEEDING WITH WORK.
▨	_CLEARING, MODIFIED (REMOVE LAWN / TREE / SHRUB MASS, STUMP, ROOT STRUCTURE & STEEL EDGING DEBRIS)	13	---	_CONTROL CABINET, RELOCATED (REFER TO ELECTRICAL PLANS)	25	PAVEMENT MARKING TO REMAIN
1	_RETAINING WALL, CONC, REM	14	---	REFER TO ##### FOR TRAFFIC SIGNALIZATION CHANGES	26	NO WORK ON BRIDGE EXCEPT FOR PAVEMENT MARKINGS
2	_TREE PROTECTION FENCE	2	---			

M-D1.2 - DEMOLITION & EROSION CONTROL

QTY	UNIT	ITEM DESCRIPTION
276	Syd	Sidewalk, Rem
584	Syd	Pav, Rem, Modified
38	Syd	Cold Milling HMA Surface
0	Ft	_Curb, Rem, Modified
3	Ea	_Tree Protection Fence
1	Ea	Tree, Rem, 6 inch to 18 inch
0	Acre	_Clearing, Modified
200	Ft	Fence, Rem
0	Ea	_Bollard, Rem
0	Sft	_Retaining Wall, Conc, Rem
2	Ea	Erosion Control, Inlet Protection, Fabric Drop
2	Ea	Erosion Control, Maintenance, Sediment Removal
0	LS	_Property Access, Protection, Temp
488	Ft	Pav Mrkg, Longit, 6 inches or Less Width, Rem
225	Sft	Rem Spec Mrkg

- NOTES:
- REFER TO SHEET G0.4 FOR DEMO AND EROSION NOTES.
  - REFER TO SHEET M-V1.0 FOR SURVEY LEGEND.

Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



Midtown Detroit, Inc.

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50% CONSTRUCTION DOCUMENTS	0	NOV 05, 2012

SEALS AND SIGNATURES



DRAWING TITLE  
**DEMOLITION AND EROSION CONTROL PLAN - AREA B**

GRAPHIC SCALE  
TAKES PRECEDENCE  
FULL SIZE SCALE (24x36)  
1" = 20'-0"  
24708.003

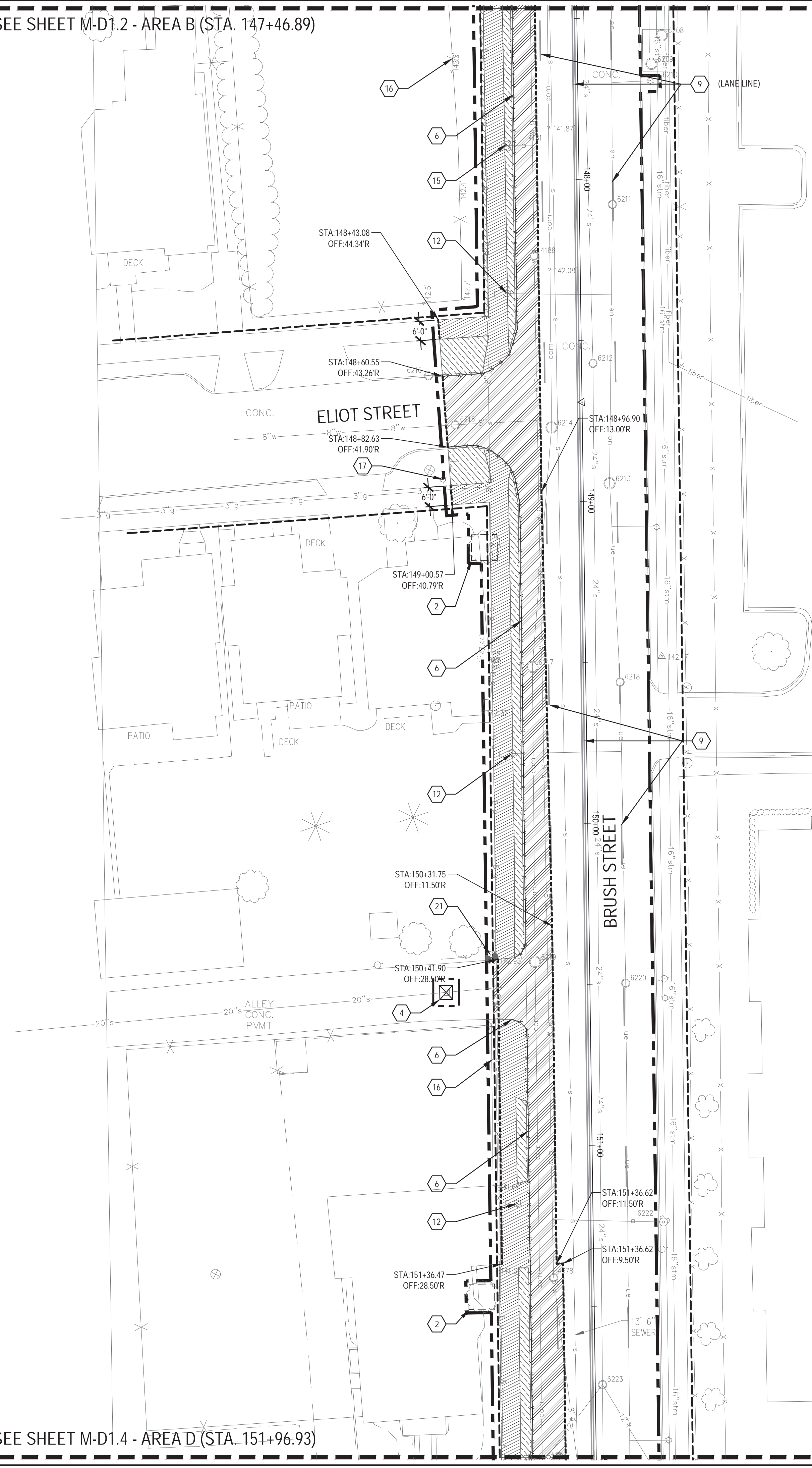
PROJECT NUMBER  
**M-D1.2**

DRAWING NUMBER  
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SEE SHEET M-D1.2 - AREA B (STA. 147+46.89)



SEE SHEET M-D1.4 - AREA D (STA. 151+96.93)

MIDTOWN LOOP KEY NOTES AND LEGEND

DEMOLITION AND EROSION CONTROL						
	CONSTRUCTION LIMIT LINE	3		TREE, REM, 6 INCH TO 18 INCH	15	FOR HYDRANT MODIFICATIONS, REFER TO UTILITY ADJUSTMENT PLANS
	RIGHT - OF - WAY LINE	4		EROSION CONTROL, INLET PROTECTION, FABRIC DROP (R-26-E)	16	FENCE TO REMAIN
	MATCH LINE	5		_CURB, REM, MODIFIED	17	STREET LIGHT TO REMAIN
	HORIZONTAL ALIGNMENT	6		_PAVT, REM, MODIFIED	18	PEDESTRIAN TRAFFIC SIGNAL TO REMAIN
	STATION AND OFFSET POINT	7		FENCE, REM	19	TRAFFIC SIGNAL TO REMAIN
	ADJACENT PROJECT	8		_BOLLARD, REM	20	CONTROL CABINET TO REMAIN
	SAWCUT PAVEMENT	9		PAVT MRKG, LONGIT, 6 INCH OR LESS WIDTH, REM	21	UTILITY POLE TO REMAIN
	SIDEWALK, REM	10		REM SPEC MRKG	22	PEDESTRIAN LIGHT TO BE REMOVED BY OTHERS
	_PAVT, REM, MODIFIED (FULL PAVEMENT DEPTH REMOVAL INCLUDING SUB-BASE MATERIAL. MAY INCLUDE BRICK / CONCRETE / HMA / AGGREGATE)	11		_PEDESTRIAN LIGHT, REM (SEE ELECTRICAL PLANS)	23	COORDINATE CONSTRUCTION ACTIVITIES WITH ADJACENT PROJECT UNDER CONSTRUCTION BY DMC. SIDEWALK RAMPS OUTSIDE OF PROJECT CONSTRUCTION LIMITS TO BE REPLACED BY DMC.
	COLD MILLING HMA SURFACE (1'-0\"/>					

M-D1.3 - DEMOLITION & EROSION CONTROL

QTY	UNIT	ITEM DESCRIPTION
301	Syd	Sidewalk, Rem
485	Syd	_Pav, Rem, Modified
0	Syd	Cold Milling HMA Surface
0	Ft	_Curb, Rem, Modified
2	Ea	_Tree Protection Fence
0	Ea	Tree, Rem, 6 inch to 18 inch
0	Acre	_Clearing, Modified
0	Ft	Fence, Rem
0	Ea	_Bollard, Rem
0	Sft	_Retaining Wall, Conc, Rem
1	Ea	Erosion Control, Inlet Protection, Fabric Drop
1	Ea	Erosion Control, Maintenance, Sediment Removal
0	LS	_Property Access, Protection, Temp
1125	Ft	Pavt Mrkg, Longit, 6 inches or Less Width, Rem
0	Sft	Rem Spec Mrkg

NOTES:

- REFER TO SHEET G0.4 FOR DEMO AND EROSION NOTES.
- REFER TO SHEET M-V1.0 FOR SURVEY LEGEND.

Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



Midtown Detroit, Inc.

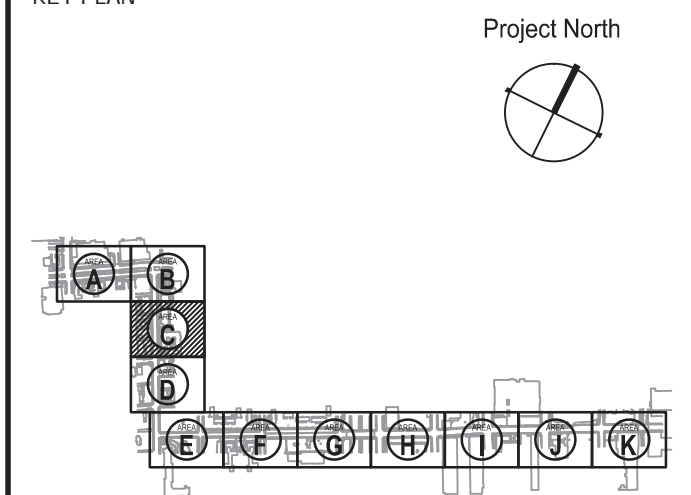
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ISSUED FOR	REV	DATE
BIDDING DOCUMENTS	5	MAY 21, 2013
BIDDING DOCUMENTS	4	MAY 02, 2013
100% CONSTRUCTION DOCUMENTS	3	APR 01, 2013
GRADE INSPECTION	2	JAN 30, 2013
80% CONSTRUCTION DOCUMENTS	1	JAN 07, 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05, 2012

SEALS AND SIGNATURES

KEY PLAN



DRAWING TITLE

DEMOLITION AND EROSION CONTROL  
PLAN - AREA C

GRAPHIC SCALE  
TAKES PRECEDENCE  
FULL SIZE SCALE (24x36)  
1"=20'-0"  
24708.003

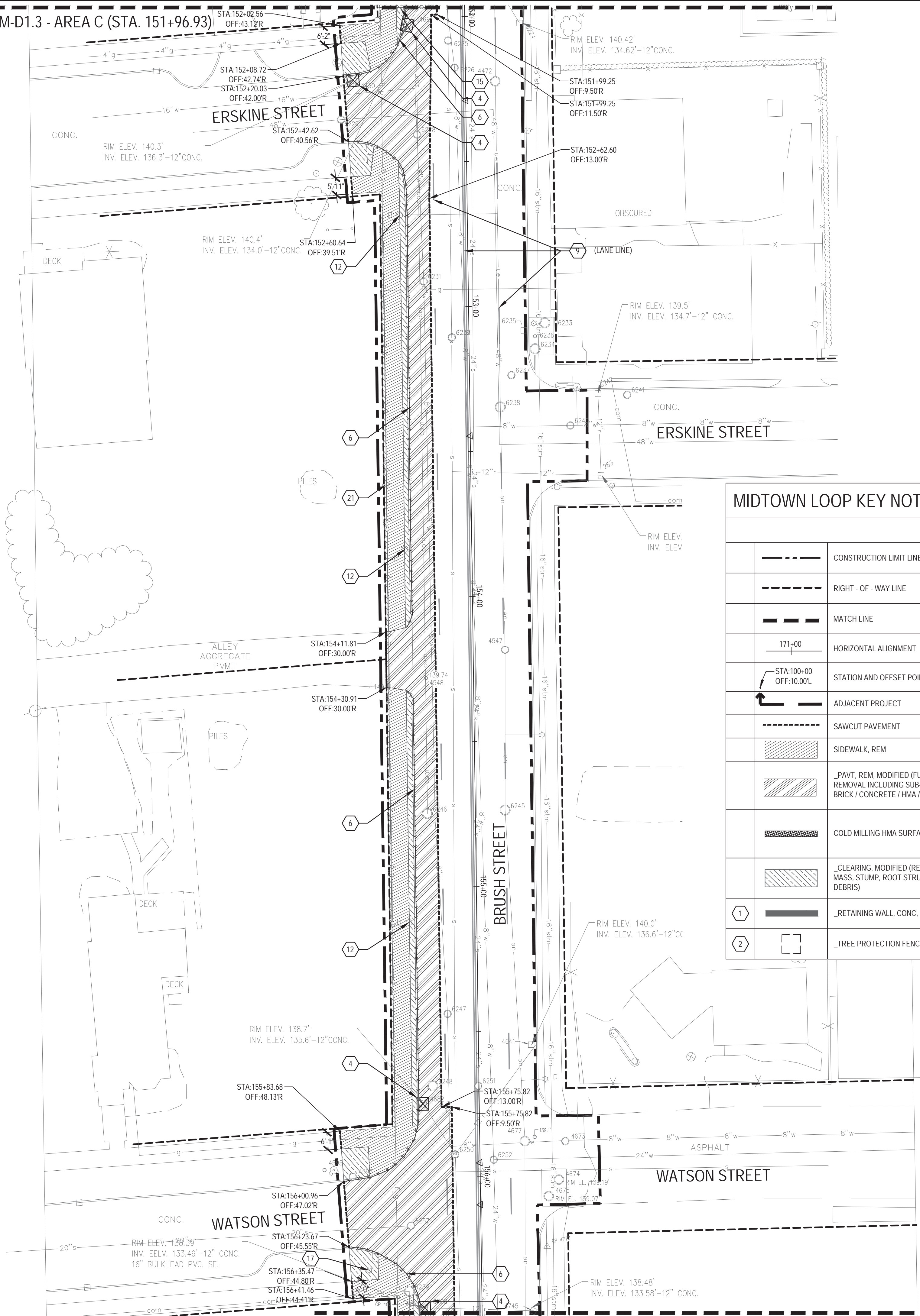
PROJECT NUMBER

M-D1.3

DRAWING NUMBER



SEE SHEET M-D1.3 - AREA C (STA. 151+96.93)



M-D1.4 - DEMOLITION & EROSION CONTROL

QTY	UNIT	ITEM DESCRIPTION
299	Syd	Sidewalk, Rem
609	Syd	Pavt, Rem, Modified
0	Syd	Cold Milling HMA Surface
0	Ft	Curb, Rem, Modified
0	Ea	Tree Protection Fence
0	Ea	Tree, Rem, 6 inch to 18 inch
0	Acre	Clearing, Modified
0	Ft	Fence, Rem
0	Ea	Bollard, Rem
0	Slt	Retaining Wall, Conc, Rem
4	Ea	Erosion Control, Inlet Protection, Fabric Drop
4	Ea	Erosion Control, Maintenance, Sediment Removal
0	LS	Property Access, Protection, Temp
1125	Ft	Pavt Mrkg, Longit, 6 inches or Less Width, Rem
0	Slt	Rem Spec Mrkg

MIDTOWN LOOP KEY NOTES AND LEGEND

DEMOLITION AND EROSION CONTROL						
	CONSTRUCTION LIMIT LINE	3		TREE, REM, 6 INCH TO 18 INCH	15	FOR HYDRANT MODIFICATIONS, REFER TO UTILITY ADJUSTMENT PLANS
	RIGHT - OF - WAY LINE	4		EROSION CONTROL, INLET PROTECTION, FABRIC DROP (R-26-E)	16	FENCE TO REMAIN
	MATCH LINE	5		_CURB, REM, MODIFIED	17	STREET LIGHT TO REMAIN
	HORIZONTAL ALIGNMENT	6		_CURB REMOVAL INCIDENTAL TO _PAVT, REM, MODIFIED	18	PEDESTRIAN TRAFFIC SIGNAL TO REMAIN
	STATION AND OFFSET POINT	7		FENCE, REM	19	TRAFFIC SIGNAL TO REMAIN
	ADJACENT PROJECT	8		_BOLLARD, REM	20	CONTROL CABINET TO REMAIN
	SAWCUT PAVEMENT	9		_PAVT MRKG, LONGIT, 6 INCH OR LESS WIDTH, REM	21	UTILITY POLE TO REMAIN
	SIDEWALK, REM	10		REM SPEC MRKG	22	PEDESTRIAN LIGHT TO BE REMOVED BY OTHERS
	_PAVT, REM, MODIFIED (FULL PAVEMENT DEPTH REMOVAL INCLUDING SUB-BASE MATERIAL. MAY INCLUDE BRICK / CONCRETE / HMA / AGGREGATE)	11		_PEDESTRIAN LIGHT, REM (SEE ELECTRICAL PLANS)	23	COORDINATE CONSTRUCTION ACTIVITIES WITH ADJACENT PROJECT UNDER CONSTRUCTION BY DMC. SIDEWALK RAMPS OUTSIDE OF PROJECT CONSTRUCTION LIMITS TO BE REPLACED BY DMC.
	COLD MILLING HMA SURFACE (1'-0" WIDE)	12		_FIXTURE TYPE M2, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)	24	FIELD VERIFY SAWCUT LOCATIONS TO COORDINATE WITH EXISTING CHANGES IN PAVEMENT TYPES AND EXISTING JOINTS WITH ENGINEER PRIOR TO PROCEEDING WITH WORK.
	_CLEARING, MODIFIED (REMOVE LAWN / TREE / SHRUB MASS, STUMP, ROOT STRUCTURE & STEEL EDGING DEBRIS)	13		_CONTROL CABINET, RELOCATED (REFER TO ELECTRICAL PLANS)	25	PAVEMENT MARKING TO REMAIN
	_RETAINING WALL, CONC, REM	14		REFER TO ##### FOR TRAFFIC SIGNALIZATION CHANGES	26	NO WORK ON BRIDGE EXCEPT FOR PAVEMENT MARKINGS
	_TREE PROTECTION FENCE	2				

- NOTES:
- REFER TO SHEET G0.4 FOR DEMO AND EROSION NOTES.
  - REFER TO SHEET M-V.1.0 FOR SURVEY LEGEND.

Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



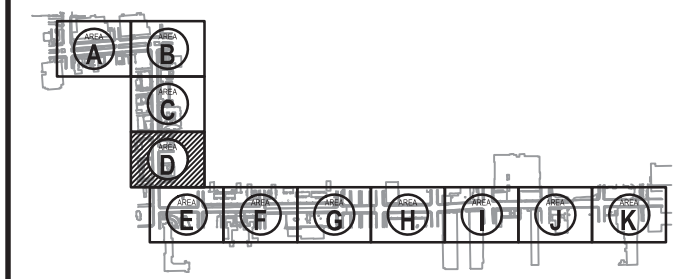
Midtown Detroit, Inc.

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100% CONSTRUCTION DOCUMENTS	3	APR 01, 2013
GRADE INSPECTION	2	JAN 30, 2013
80% CONSTRUCTION DOCUMENTS	1	JAN 07, 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05, 2012

SEALS AND SIGNATURES



DRAWING TITLE  
**DEMOLITION AND EROSION CONTROL PLAN - AREA D**

GRAPHIC SCALE  
TAKES PRECEDENCE  
FULL SIZE SCALE (24x36)  
1" = 20'-0"  
24708.003

PROJECT NUMBER  
**M-D1.4**

DRAWING NUMBER  
234 of 497

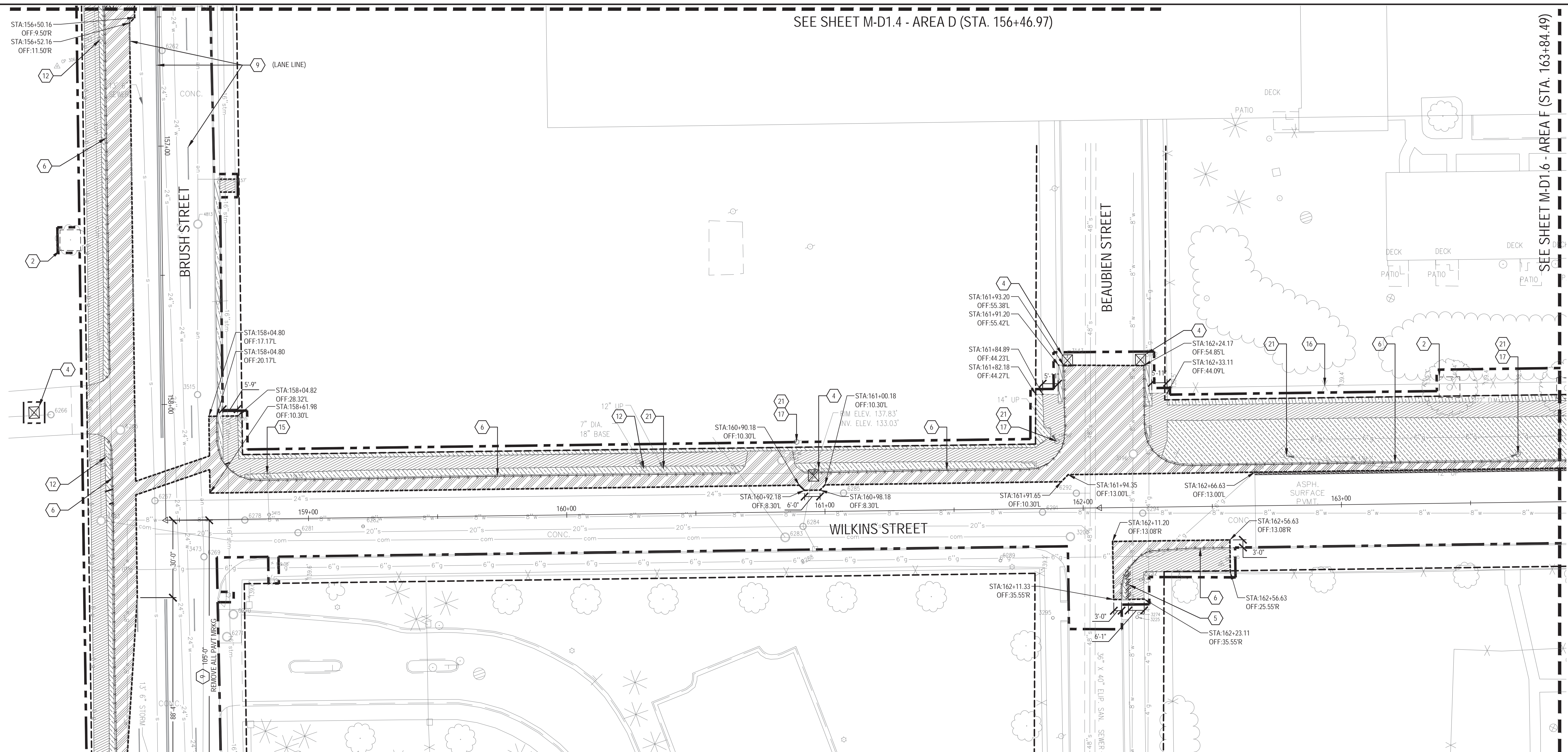
SEE SHEET M-D1.5 - AREA E (STA. 156+46.97)



FILE: P:\24708\003\Phase-IV\CAD\Sheet\24708-004-DEM0-SHT.dwg USER: young DATE: May, 21, 2013 TIME: 04:45 pm

SEE SHEET M-D1.4 - AREA D (STA. 156+46.97)

SEE SHEET M-D1.6 - AREA F (STA. 163+84.49)



QTY	UNIT	ITEM DESCRIPTION
562	Syd	Sidewalk, Rem
781	Syd	Pavt, Rem, Modified
13	Syd	Cold Milling HMA Surface
12	Ft	Curb, Rem, Modified
2	Ea	Tree Protection Fence
0	Ea	Tree, Rem, 6 inch to 18 inch
0	Acre	Clearing, Modified
0	Ft	Fence, Rem
0	Ea	Bollard, Rem
0	Sft	Retaining Wall, Conc, Rem
5	Ea	Erosion Control, Inlet Protection, Fabric Drop
5	Ea	Erosion Control, Maintenance, Sediment Removal
0	LS	Property Access, Protection, Temp
681	Ft	Pavt Mrkg, Longit, 6 inches or Less Width, Rem
0	Sft	Rem Spec Mrkg

- NOTES:
- REFER TO SHEET G0.4 FOR DEMO AND EROSION NOTES.
  - REFER TO SHEET M-V1.0 FOR SURVEY LEGEND.

MIDTOWN LOOP KEY NOTES AND LEGEND

DEMOLITION AND EROSION CONTROL					
	CONSTRUCTION LIMIT LINE	3		15	FOR HYDRANT MODIFICATIONS, REFER TO UTILITY ADJUSTMENT PLANS
	RIGHT - OF - WAY LINE	4		16	FENCE TO REMAIN
	MATCH LINE	5		17	STREET LIGHT TO REMAIN
	HORIZONTAL ALIGNMENT	6		18	PEDESTRIAN TRAFFIC SIGNAL TO REMAIN
	STATION AND OFFSET POINT	7		19	TRAFFIC SIGNAL TO REMAIN
	ADJACENT PROJECT	8		20	CONTROL CABINET TO REMAIN
	SAWCUT PAVEMENT	9		21	UTILITY POLE TO REMAIN
	SIDEWALK, REM	10		22	PEDESTRIAN LIGHT TO BE REMOVED BY OTHERS
	PAVT, REM, MODIFIED (FULL PAVEMENT DEPTH REMOVAL INCLUDING SUB-BASE MATERIAL. MAY INCLUDE BRICK / CONCRETE / HMA / AGGREGATE)	11		23	COORDINATE CONSTRUCTION ACTIVITIES WITH ADJACENT PROJECT UNDER CONSTRUCTION BY DMC. SIDEWALK RAMPS OUTSIDE OF PROJECT CONSTRUCTION LIMITS TO BE REPLACED BY DMC.
	COLD MILLING HMA SURFACE (1'-0" WIDE)	12		24	FIELD VERIFY SAWCUT LOCATIONS TO COORDINATE WITH EXISTING CHANGES IN PAVEMENT TYPES AND EXISTING JOINTS WITH ENGINEER PRIOR TO PROCEEDING WITH WORK.
	CLEARING, MODIFIED (REMOVE LAWN / TREE / SHRUB MASS, STUMP, ROOT STRUCTURE & STEEL EDGING)	13		25	PAVEMENT MARKING TO REMAIN
	RETAINING WALL, CONC, REM	14		26	NO WORK ON BRIDGE EXCEPT FOR PAVEMENT MARKINGS
	TREE PROTECTION FENCE	2			

Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



Midtown Detroit, Inc.

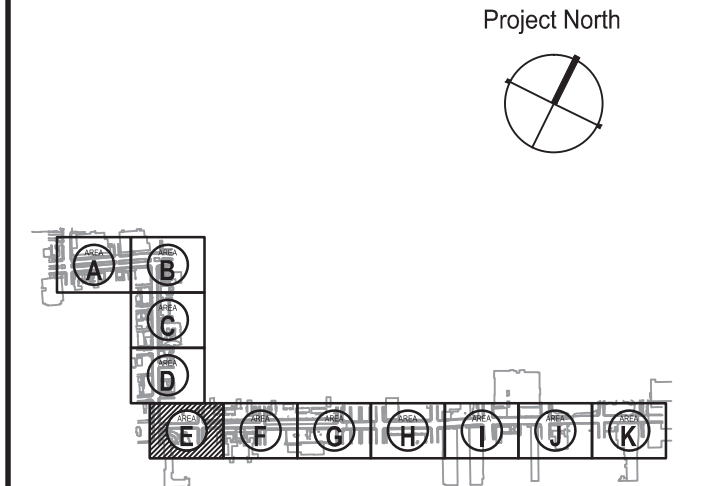
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ISSUED FOR	REV	DATE
BIDDING DOCUMENTS	5	MAY 21, 2013
BIDDING DOCUMENTS	4	MAY 02, 2013
100% CONSTRUCTION DOCUMENTS	3	APR 01, 2013
GRADE INSPECTION	2	JAN 30, 2013
80% CONSTRUCTION DOCUMENTS	1	JAN 07, 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05, 2012

SEALS AND SIGNATURES

KEY PLAN



DEMOLITION AND EROSION CONTROL PLAN - AREA E

GRAPHIC SCALE TAKES PRECEDENCE FULL SIZE SCALE (24x36) 1"=20'-0" 24708.003

PROJECT NUMBER

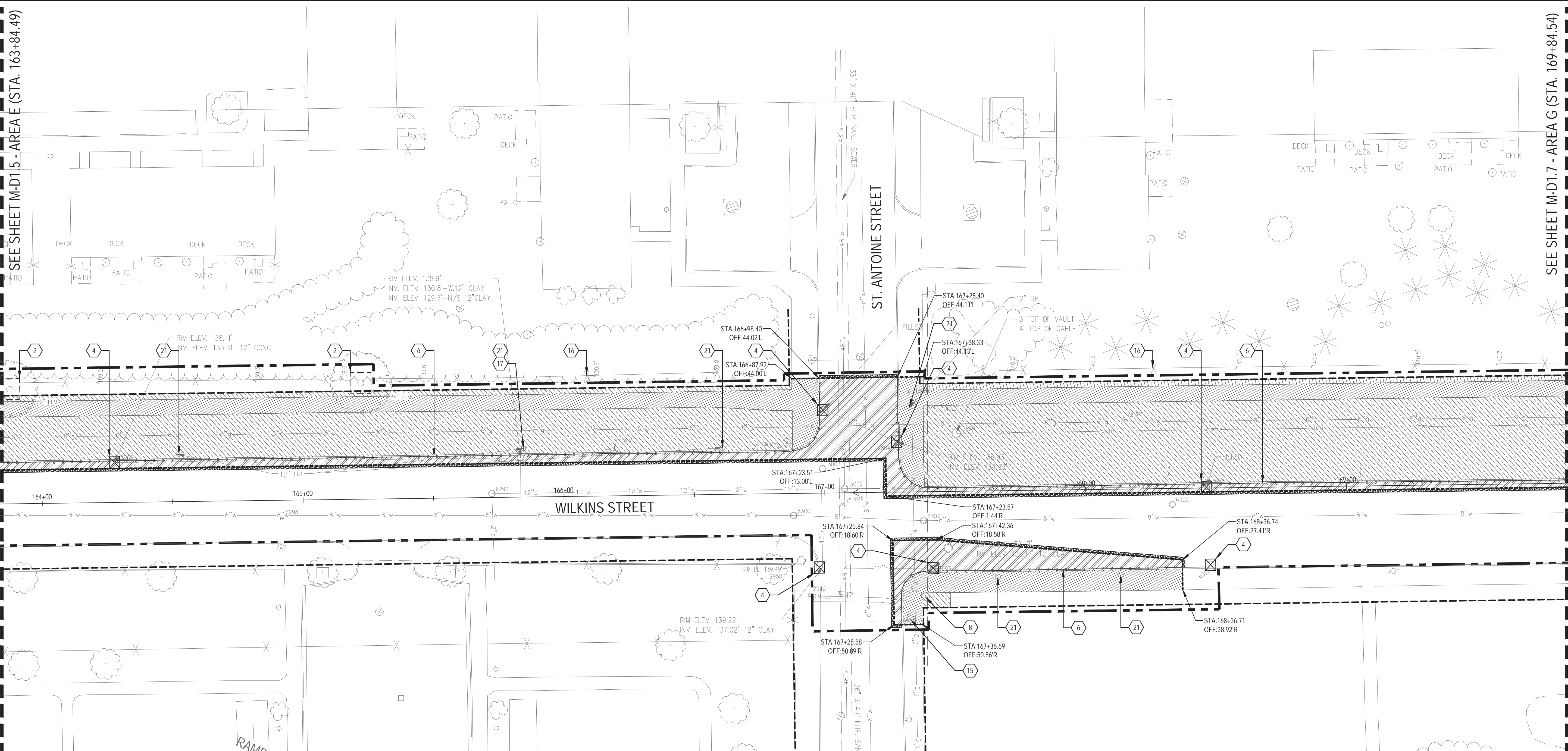
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DRAWING NUMBER

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SEE SHEET M-D1.5 - AREA E (STA. 163+84.49)

SEE SHEET M-D1.7 - AREA G (STA. 169+84.54)

**M-D1.6 - DEMOLITION & EROSION CONTROL**

QTY	UNIT	ITEM DESCRIPTION
542	Syd	Sidewalk, Rem
418	Syd	Pavt, Rem, Modified
89	Syd	Cold Milling HMA Surface
0	Ft	Curb, Rem, Modified
2	Ea	Tree Protection Fence
0	Ea	Tree, Rem, 6 inch to 18 inch
0	Acre	Clearing, Modified
0	Ft	Fence, Rem
1	Ea	Bollard, Rem
0	Slt	Retaining Wall, Conc, Rem
7	Ea	Erosion Control, Inlet Protection, Fabric Drop
7	Ea	Erosion Control, Maintenance, Sediment Removal
0	LS	Property Access, Protection, Temp
0	Ft	Pavt Mrkg, Longit, 6 inches or Less Width, Rem
0	Slt	Rem Spec Mrkg

NOTES:  
 1. REFER TO SHEET G0.4 FOR DEMO AND EROSION NOTES.  
 2. REFER TO SHEET M-V1.0 FOR SURVEY LEGEND.

**MIDTOWN LOOP KEY NOTES AND LEGEND**

DEMOLITION AND EROSION CONTROL					
	CONSTRUCTION LIMIT LINE	3		15	FOR HYDRANT MODIFICATIONS, REFER TO UTILITY ADJUSTMENT PLANS
	RIGHT - OF - WAY LINE	4		16	FENCE TO REMAIN
	MATCH LINE	5		17	STREET LIGHT TO REMAIN
	HORIZONTAL ALIGNMENT	6		18	PEDESTRIAN TRAFFIC SIGNAL TO REMAIN
	STATION AND OFFSET POINT	7		19	TRAFFIC SIGNAL TO REMAIN
	ADJACENT PROJECT	8		20	CONTROL CABINET TO REMAIN
	SAWCUT PAVEMENT	9		21	UTILITY POLE TO REMAIN
	SIDEWALK, REM	10		22	PEDESTRIAN LIGHT TO BE REMOVED BY OTHERS
	PAVT, REM, MODIFIED (FULL PAVEMENT DEPTH REMOVAL INCLUDING SUB-BASE MATERIAL MAY INCLUDE BRICK / CONCRETE / HMA / AGGREGATE)	11		23	COORDINATE CONSTRUCTION ACTIVITIES WITH ADJACENT PROJECT UNDER CONSTRUCTION BY DMC. SIDEWALK RAMPS OUTSIDE OF PROJECT CONSTRUCTION LIMITS TO BE REPLACED BY DMC.
	COLD MILLING HMA SURFACE (1'-0\"/>	12		24	FIELD VERIFY SAWCUT LOCATIONS TO COORDINATE WITH EXISTING CHANGES IN PAVEMENT TYPES AND EXISTING JOINTS WITH ENGINEER PRIOR TO PROCEEDING WITH WORK.
	CLEARING, MODIFIED (REMOVE LAWN / TREE / SHRUB MASS, STUMP, ROOT STRUCTURE & STEEL EDGING DEBRIS)	13		25	PAVEMENT MARKING TO REMAIN
	RETAINING WALL, CONC, REM	14		26	NO WORK ON BRIDGE EXCEPT FOR PAVEMENT MARKINGS
	TREE PROTECTION FENCE	2			

**Midtown Loop Phase IV**

Midtown Loop  
 Detroit, Michigan



Owners:



City of Detroit



Midtown Detroit, Inc.

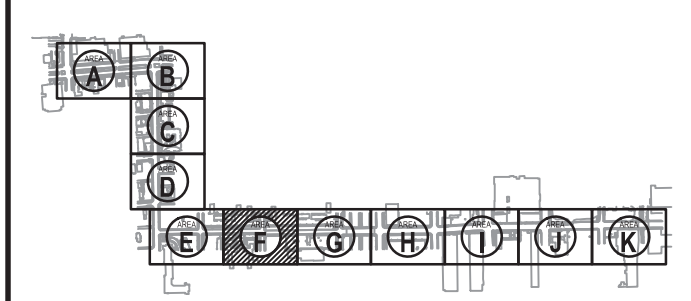
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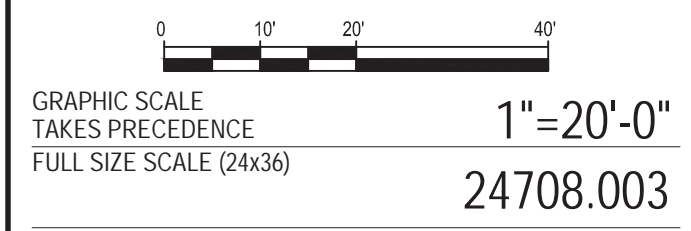
ISSUED FOR	REV	DATE
BIDDING DOCUMENTS	5	MAY 21 2013
BIDDING DOCUMENTS	4	MAY 02 2013
100% CONSTRUCTION DOCUMENTS	3	APR 01 2013
GRADE INSPECTION	2	JAN 30 2013
80% CONSTRUCTION DOCUMENTS	1	JAN 07 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05 2012

SEALS AND SIGNATURES

KEY PLAN



**DEMOLITION AND EROSION CONTROL PLAN - AREA F**



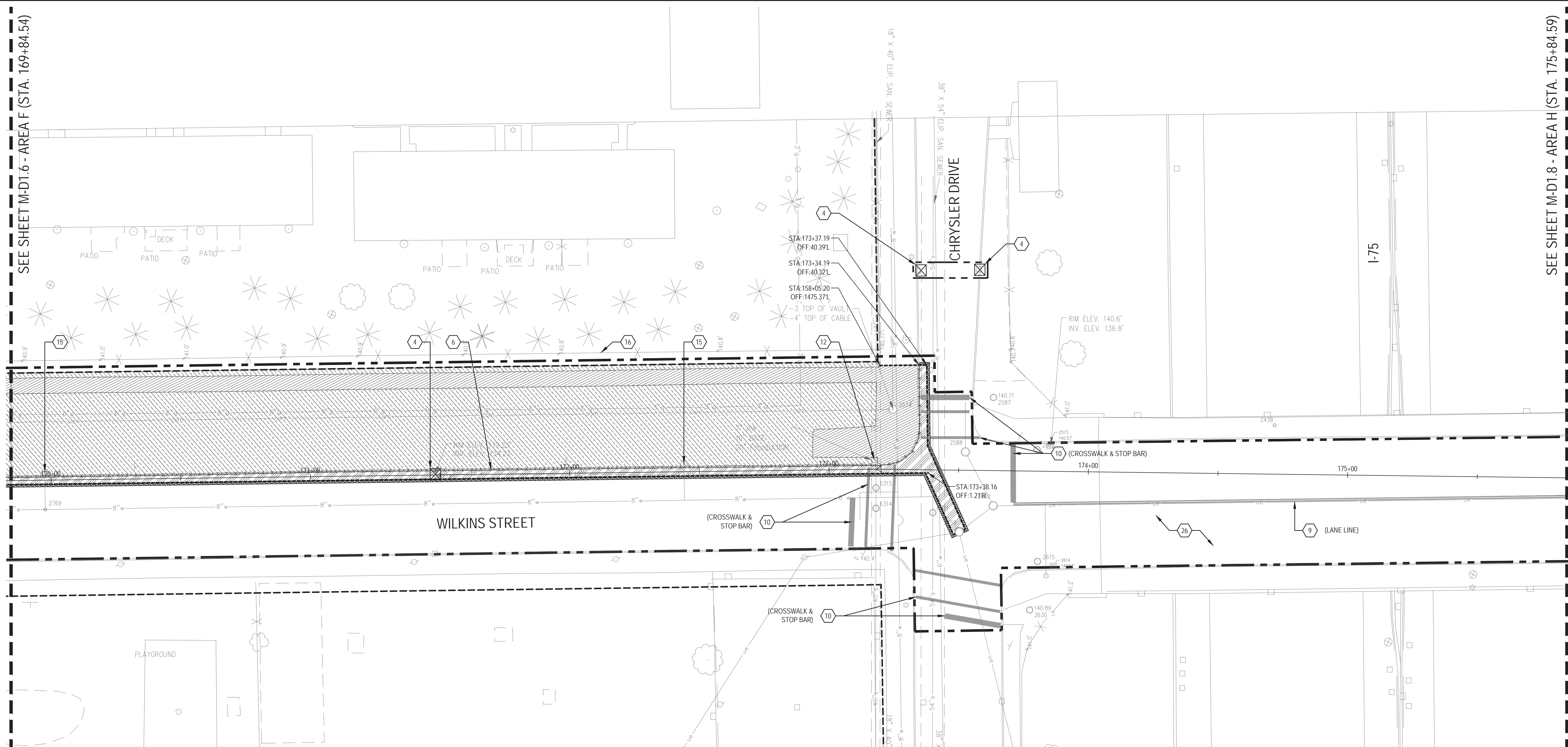
PROJECT NUMBER  
**M-D1.6**

DRAWING NUMBER  
 236 of 497



SEE SHEET M-D1.6 - AREA F (STA. 169+84.54)

SEE SHEET M-D1.8 - AREA H (STA. 175+84.59)



# Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



Midtown Detroit, Inc.

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BIDDING DOCUMENTS	5	MAY 21 2013
BIDDING DOCUMENTS	4	MAY 02 2013
100% CONSTRUCTION DOCUMENTS	3	APR 01 2013
GRADE INSPECTION	2	JAN 30 2013
80% CONSTRUCTION DOCUMENTS	1	JAN 07 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05 2012

SEALS AND SIGNATURES

### MIDTOWN LOOP KEY NOTES AND LEGEND

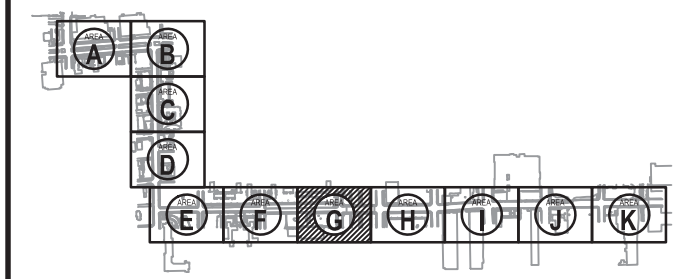
DEMOLITION AND EROSION CONTROL					
	CONSTRUCTION LIMIT LINE	3		TREE, REM, 6 INCH TO 18 INCH	15 FOR HYDRANT MODIFICATIONS, REFER TO UTILITY ADJUSTMENT PLANS
	RIGHT - OF - WAY LINE	4		EROSION CONTROL, INLET PROTECTION, FABRIC DROP (R-26-E)	16 FENCE TO REMAIN
	MATCH LINE	5		_CURB, REM, MODIFIED	17 STREET LIGHT TO REMAIN
	HORIZONTAL ALIGNMENT	6		CURB REMOVAL INCIDENTAL TO _PAVT. REM, MODIFIED	18 PEDESTRIAN TRAFFIC SIGNAL TO REMAIN
	STATION AND OFFSET POINT	7		FENCE, REM	19 TRAFFIC SIGNAL TO REMAIN
	ADJACENT PROJECT	8		_BOLLARD, REM	20 CONTROL CABINET TO REMAIN
	SAWCUT PAVEMENT	9		PAVT MRKG, LONGIT, 6 INCH OR LESS WIDTH, REM	21 UTILITY POLE TO REMAIN
	SIDEWALK, REM	10		REM SPEC MRKG	22 PEDESTRIAN LIGHT TO BE REMOVED BY OTHERS
	_PAVT, REM, MODIFIED (FULL PAVEMENT DEPTH REMOVAL INCLUDING SUB-BASE MATERIAL. MAY INCLUDE BRICK / CONCRETE / HMA / AGGREGATE)	11		_PEDESTRIAN LIGHT, REM (SEE ELECTRICAL PLANS)	23 COORDINATE CONSTRUCTION ACTIVITIES WITH ADJACENT PROJECT UNDER CONSTRUCTION BY DMC. SIDEWALK RAMPS OUTSIDE OF PROJECT CONSTRUCTION LIMITS TO BE REPLACED BY DMC.
	COLD MILLING HMA SURFACE (1'-0" WIDE)	12		_FIXTURE TYPE M2, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)	24 FIELD VERIFY SAWCUT LOCATIONS TO COORDINATE WITH EXISTING CHANGES IN PAVEMENT TYPES AND EXISTING JOINTS WITH ENGINEER PRIOR TO PROCEEDING WITH WORK.
	CLEARING, MODIFIED (REMOVE LAWN / TREE / SHRUB MASS, STUMP, ROOT STRUCTURE & STEEL EDGING DEBRIS)	13		_CONTROL CABINET, RELOCATED (REFER TO ELECTRICAL PLANS)	25 PAVEMENT MARKING TO REMAIN
	_RETAINING WALL, CONC, REM	14		REFER TO ##### FOR TRAFFIC SIGNALIZATION CHANGES	26 NO WORK ON BRIDGE EXCEPT FOR PAVEMENT MARKINGS
	_TREE PROTECTION FENCE	2			

### M-D1.7 - DEMOLITION & EROSION CONTROL

QTY	UNIT	ITEM DESCRIPTION
318	Syd	Sidewalk, Rem
156	Syd	_Pav, Rem, Modified
50	Syd	Cold Milling HMA Surface
0	Ft	_Curb, Rem, Modified
0	Ea	_Tree Protection Fence
0	Ea	Tree, Rem, 6 inch to 18 inch
0	Acre	_Clearing, Modified
0	Ft	Fences, Rem
0	Ea	_Bollard, Rem
0	Sft	_Retaining Wall, Conc, Rem
3	Ea	Erosion Control, Inlet Protection, Fabric Drop
3	Ea	Erosion Control, Maintenance, Sediment Removal
0	LS	_Property Access, Protection, Temp
427	Ft	PAVT MRKG, LONGIT, 6 inches or Less Width, Rem
296	Sft	Rem Spec Mrkg

#### NOTES:

- REFER TO SHEET G0.4 FOR DEMO AND EROSION NOTES.
- REFER TO SHEET M-V1.0 FOR SURVEY LEGEND.



### DEMOLITION AND EROSION CONTROL PLAN - AREA G

PROJECT NUMBER  
**M-D1.7**

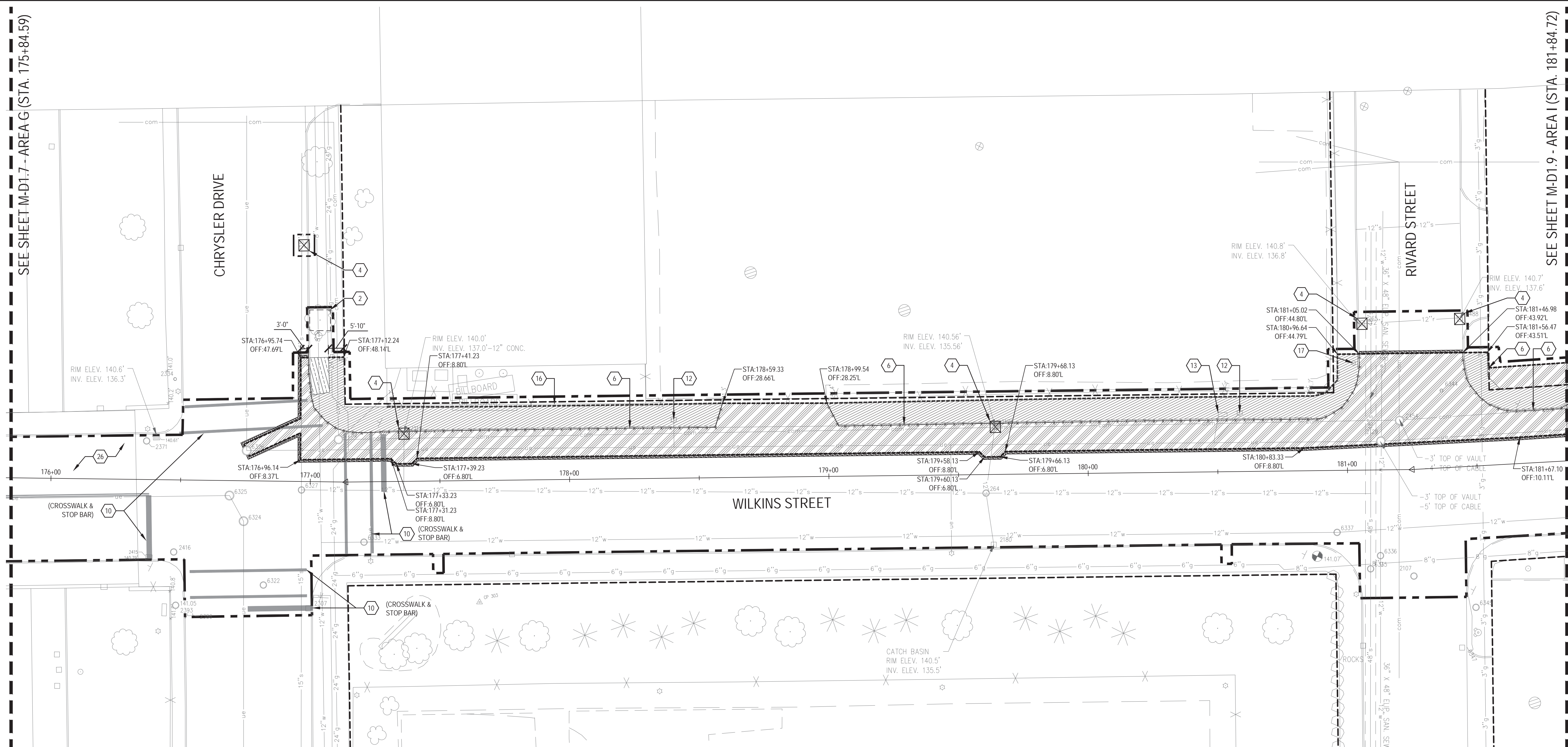
DRAWING NUMBER  
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SEE SHEET M-D1.7 - AREA G (STA. 175+84.59)

SEE SHEET M-D1.9 - AREA I (STA. 181+84.72)



**M-D1.8 - DEMOLITION & EROSION CONTROL**

QTY	UNIT	ITEM DESCRIPTION
406	Syd	Sidewalk, Rem
813	Syd	Pavt, Rem, Modified
69	Syd	Cold Milling HMA Surface
0	Ft	Curb, Rem, Modified
1	Ea	Tree Protection Fence
0	Ea	Tree, Rem, 6 inch to 18 inch
0	Acre	Clearing, Modified
0	Ft	Fence, Rem
0	Ea	Bollard, Rem
0	Slt	Retaining Wall, Conc, Rem
5	Ea	Erosion Control, Inlet Protection, Fabric Drop
5	Ea	Erosion Control, Maintenance, Sediment Removal
0	LS	Property Access, Protection, Temp
106	Ft	Pavt Mrkg, Longit, 6 inches or Less Width, Rem
393	Sft	Rem Spec Mrkg

**NOTES:**

- REFER TO SHEET G0.4 FOR DEMO AND EROSION NOTES.
- REFER TO SHEET M-V1.0 FOR SURVEY LEGEND.

**MIDTOWN LOOP KEY NOTES AND LEGEND**

DEMOLITION AND EROSION CONTROL						
	CONSTRUCTION LIMIT LINE	3		TREE, REM, 6 INCH TO 18 INCH	15	FOR HYDRANT MODIFICATIONS, REFER TO UTILITY ADJUSTMENT PLANS
	RIGHT - OF - WAY LINE	4		EROSION CONTROL, INLET PROTECTION, FABRIC DROP (R-26-E)	16	FENCE TO REMAIN
	MATCH LINE	5		_CURB, REM, MODIFIED	17	STREET LIGHT TO REMAIN
	HORIZONTAL ALIGNMENT	6		CURB REMOVAL INCIDENTAL TO _PAVT. REM. MODIFIED	18	PEDESTRIAN TRAFFIC SIGNAL TO REMAIN
	STATION AND OFFSET POINT	7		FENCE, REM	19	TRAFFIC SIGNAL TO REMAIN
	ADJACENT PROJECT	8		_BOLLARD, REM	20	CONTROL CABINET TO REMAIN
	SAWCUT PAVEMENT	9		PAVT MRKG, LONGIT, 6 INCH OR LESS WIDTH, REM	21	UTILITY POLE TO REMAIN
	SIDEWALK, REM	10		REM SPEC MRKG	22	PEDESTRIAN LIGHT TO BE REMOVED BY OTHERS
	_PAVT, REM, MODIFIED (FULL PAVEMENT DEPTH REMOVAL INCLUDING SUB-BASE MATERIAL. MAY INCLUDE BRICK / CONCRETE / HMA / AGGREGATE)	11		_PEDESTRIAN LIGHT, REM (SEE ELECTRICAL PLANS)	23	COORDINATE CONSTRUCTION ACTIVITIES WITH ADJACENT PROJECT UNDER CONSTRUCTION BY DMC. SIDEWALK RAMPS OUTSIDE OF PROJECT CONSTRUCTION LIMITS TO BE REPLACED BY DMC.
	COLD MILLING HMA SURFACE (1'-0" WIDE)	12		_FIXTURE TYPE M2, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)	24	FIELD VERIFY SAWCUT LOCATIONS TO COORDINATE WITH EXISTING CHANGES IN PAVEMENT TYPES AND EXISTING JOINTS WITH ENGINEER PRIOR TO PROCEEDING WITH WORK.
	_CLEARING, MODIFIED (REMOVE LAWN / TREE / SHRUB MASS, STUMP, ROOT STRUCTURE & STEEL EDGING DEBRIS)	13		_CONTROL CABINET, RELOCATED (REFER TO ELECTRICAL PLANS)	25	PAVEMENT MARKING TO REMAIN
	_RETAINING WALL, CONC, REM	14		REFER TO ##### FOR TRAFFIC SIGNALIZATION CHANGES	26	NO WORK ON BRIDGE EXCEPT FOR PAVEMENT MARKINGS
	_TREE PROTECTION FENCE	2				

**Midtown Loop Phase IV**

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



Midtown Detroit, Inc.

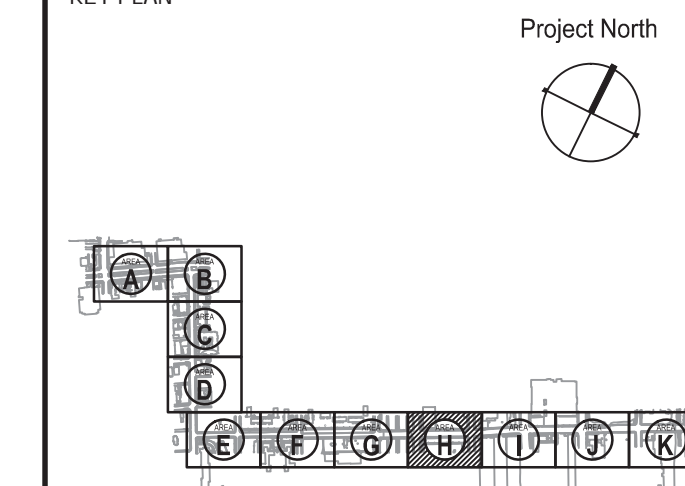
**SMITHGROUP JJR**

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734.662.4457  
www.smithgroupjjr.com

ISSUED FOR	REV	DATE
BIDDING DOCUMENTS	5	MAY 21 2013
BIDDING DOCUMENTS	4	MAY 02 2013
100% CONSTRUCTION DOCUMENTS	3	APR 01 2013
GRADE INSPECTION	2	JAN 30 2013
80% CONSTRUCTION DOCUMENTS	1	JAN 07 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05 2012

SEALS AND SIGNATURES

KEY PLAN



DRAWING TITLE

**DEMOLITION AND EROSION CONTROL PLAN - AREA H**

GRAPHIC SCALE  
TAKES PRECEDENCE  
FULL SIZE SCALE (24x36)  
1" = 20'-0"  
24708.003

PROJECT NUMBER

**M-D1.8**

DRAWING NUMBER

238 of 497

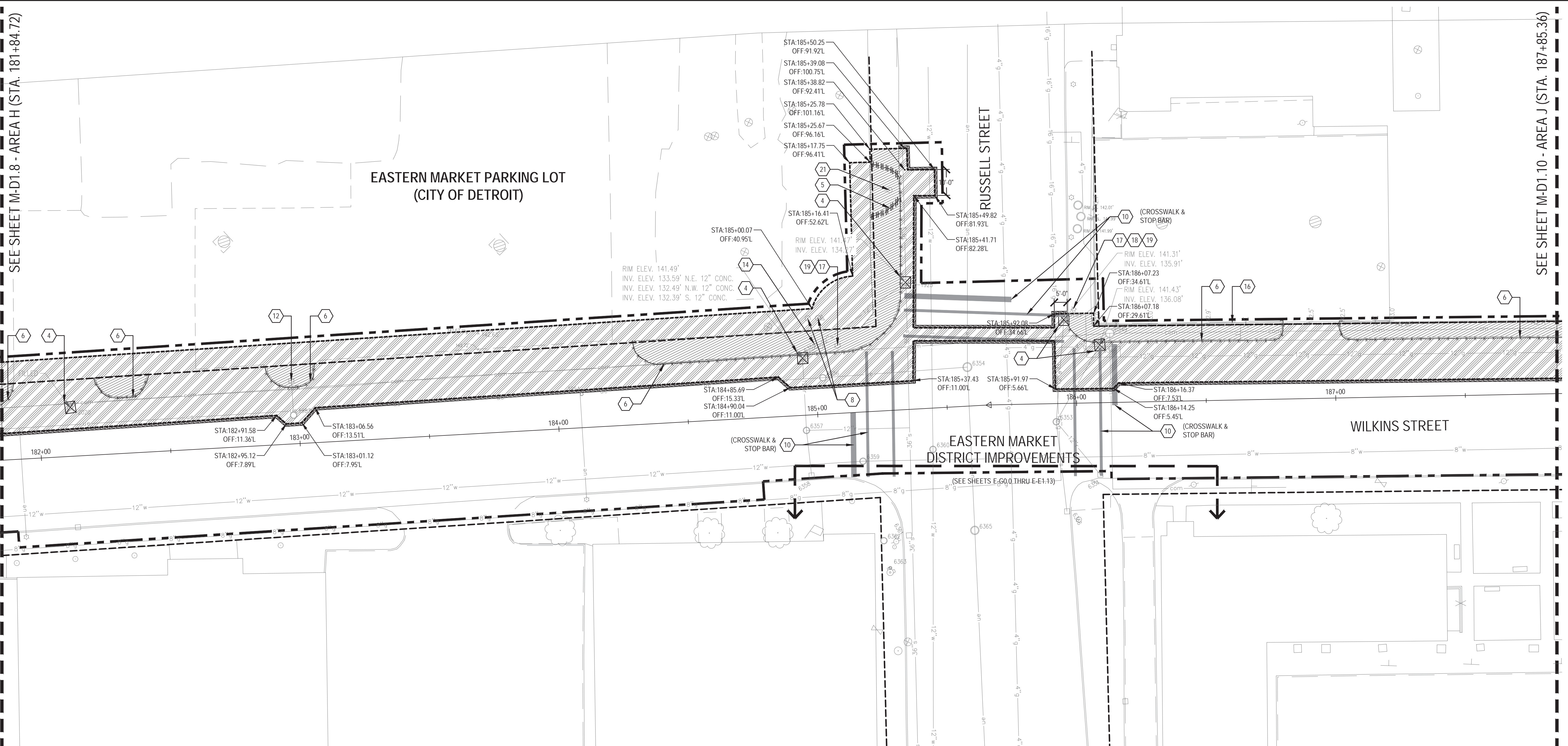


3 WORKING DAYS  
BEFORE YOU DIG  
CALL MISS DIG  
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FILE: P:\24708\003\Phase-IV\CAD\Sheet\24708-004-DEM0-SHT.dwg USER: young DATE: May 21 2013 TIME: 04:47 pm

SEE SHEET M-D1.8 - AREA H (STA. 181+84.72)

SEE SHEET M-D1.10 - AREA J (STA. 187+85.36)



**Midtown Loop Phase IV**

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



Midtown Detroit, Inc.

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80% CONSTRUCTION DOCUMENTS	1	JAN 07, 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05, 2012

SEALS AND SIGNATURES

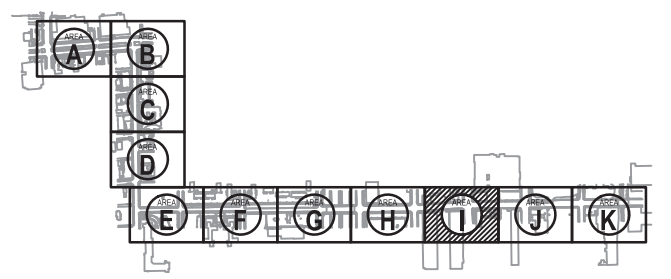
**MIDTOWN LOOP KEY NOTES AND LEGEND**

DEMOLITION AND EROSION CONTROL			
	CONSTRUCTION LIMIT LINE	3	TREE, REM, 6 INCH TO 18 INCH
	RIGHT - OF - WAY LINE	4	EROSION CONTROL, INLET PROTECTION, FABRIC DROP (R-26-E)
	MATCH LINE	5	_CURB, REM, MODIFIED
	HORIZONTAL ALIGNMENT	6	CURB REMOVAL INCIDENTAL TO _PAVT. REM, MODIFIED
	STATION AND OFFSET POINT	7	FENCE, REM
	ADJACENT PROJECT	8	_BOLLARD, REM
	SAWCUT PAVEMENT	9	PAVT MRKG, LONGIT, 6 INCH OR LESS WIDTH, REM
	SIDEWALK, REM	10	REM SPEC MRKG
	_PAVT, REM, MODIFIED (FULL PAVEMENT DEPTH REMOVAL INCLUDING SUB-BASE MATERIAL. MAY INCLUDE BRICK / CONCRETE / HMA / AGGREGATE)	11	_PEDESTRIAN LIGHT, REM (SEE ELECTRICAL PLANS)
	COLD MILLING HMA SURFACE (1'-0" WIDE)	12	_FIXTURE TYPE M2, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)
	CLEARING, MODIFIED (REMOVE LAWN / TREE / SHRUB MASS, STUMP, ROOT STRUCTURE & STEEL EDGING DEBRIS)	13	_CONTROL CABINET, RELOCATED (REFER TO ELECTRICAL PLANS)
	_RETAINING WALL, CONC, REM	14	REFER TO ##### FOR TRAFFIC SIGNALIZATION CHANGES
	_TREE PROTECTION FENCE	2	

**M-D1.9 - DEMOLITION & EROSION CONTROL**

QTY	UNIT	ITEM DESCRIPTION
313	Syd	Sidewalk, Rem
1421	Syd	Pavt, Rem, Modified
89	Syd	Cold Milling HMA Surface
27	Ft	Curb, Rem, Modified
0	Ea	Tree Protection Fence
0	Ea	Tree, Rem, 6 inch to 18 inch
0	Acre	Clearing, Modified
0	Ft	Fence, Rem
2	Ea	Bollard, Rem
0	Sft	Retaining Wall, Conc, Rem
5	Ea	Erosion Control, Inlet Protection, Fabric Drop
5	Ea	Erosion Control, Maintenance, Sediment Removal
0	LS	Property Access, Protection, Temp
0	Ft	Pavt Mrkg, Longit, 6 inches or Less Width, Rem
455	Sft	Rem Spec Mrkg

- NOTES:
- REFER TO SHEET G0.4 FOR DEMO AND EROSION NOTES.
  - REFER TO SHEET M-V1.0 FOR SURVEY LEGEND.



**DEMOLITION AND EROSION CONTROL PLAN - AREA I**

GRAPHIC SCALE TAKES PRECEDENCE FULL SIZE SCALE (24x36) 1"=20'-0" 24708.003

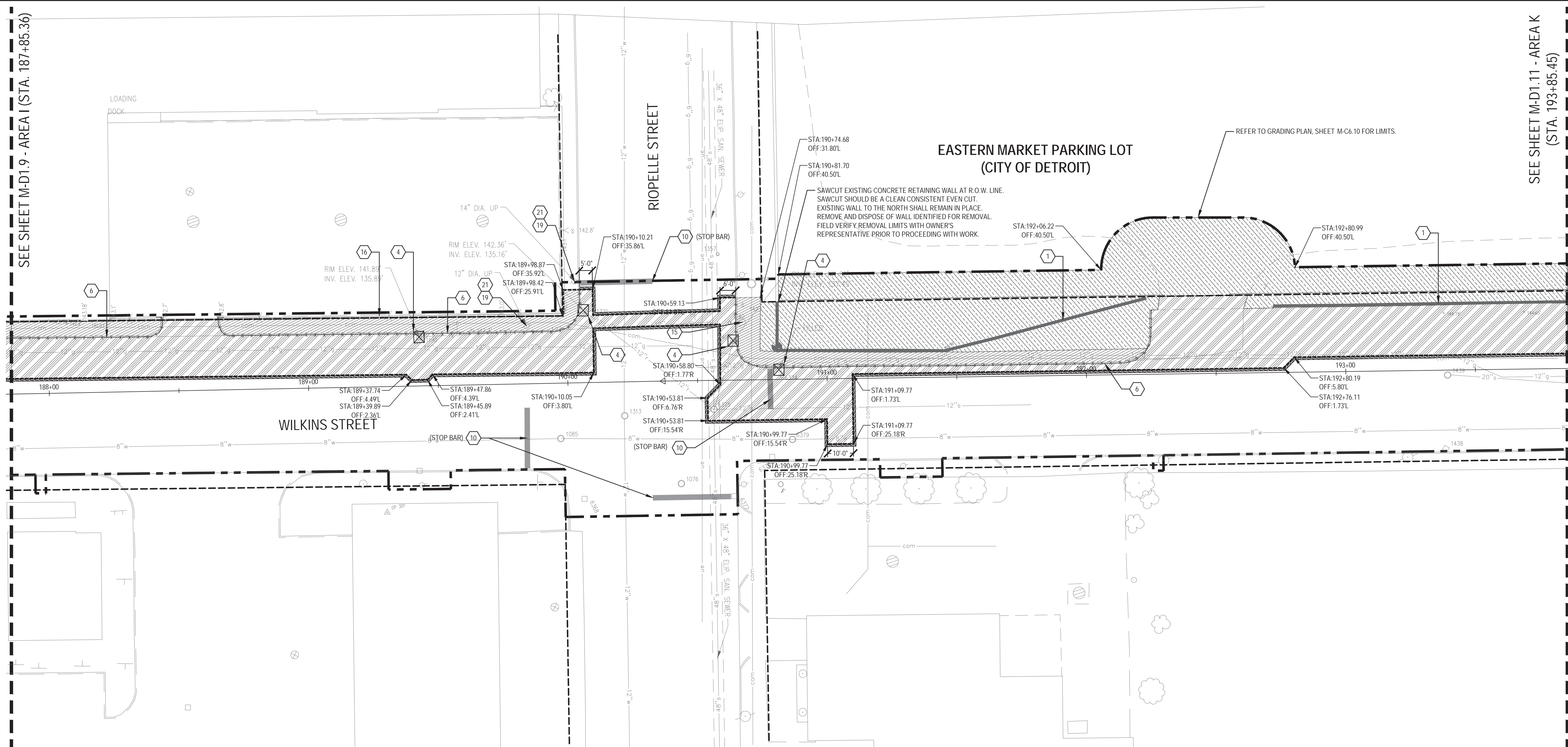
PROJECT NUMBER M-D1.9 DRAWING NUMBER 239 of 497



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SEE SHEET M-D1.9 - AREA I (STA. 187+85.36)

SEE SHEET M-D1.11 - AREA K  
(STA. 193+85.45)



Midtown Loop  
Phase IV  
Midtown Loop  
Detroit, Michigan



Owners:  
City of Detroit



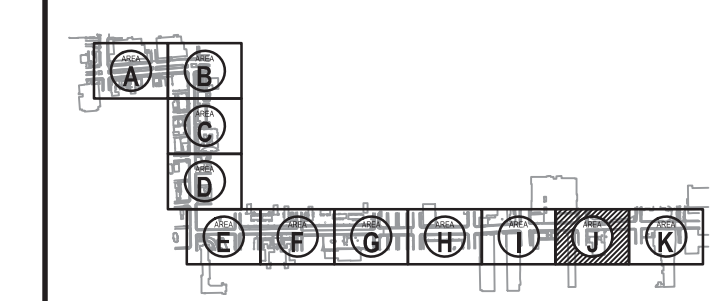
Midtown Detroit, Inc.

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BIDDING DOCUMENTS	5	MAY 21, 2013
BIDDING DOCUMENTS	4	MAY 02, 2013
100% CONSTRUCTION DOCUMENTS	3	APR 01, 2013
GRADE INSPECTION	2	JAN 30, 2013
80% CONSTRUCTION DOCUMENTS	1	JAN 07, 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05, 2012

SEALS AND SIGNATURES



DRAWING TITLE  
**DEMOLITION AND EROSION CONTROL PLAN - AREA J**

GRAPHIC SCALE TAKES PRECEDENCE  
FULL SIZE SCALE (24x36)  
1" = 20'-0"  
24708.003

PROJECT NUMBER  
**M-D1.10**  
DRAWING NUMBER  
240 of 497

**MIDTOWN LOOP KEY NOTES AND LEGEND**

DEMOLITION AND EROSION CONTROL						
	CONSTRUCTION LIMIT LINE	3		TREE, REM, 6 INCH TO 18 INCH	15	FOR HYDRANT MODIFICATIONS, REFER TO UTILITY ADJUSTMENT PLANS
	RIGHT - OF - WAY LINE	4		EROSION CONTROL, INLET PROTECTION, FABRIC DROP (R-26-E)	16	FENCE TO REMAIN
	MATCH LINE	5		_CURB, REM, MODIFIED	17	STREET LIGHT TO REMAIN
	HORIZONTAL ALIGNMENT	6		PEDESTRIAN TRAFFIC SIGNAL TO REMAIN	18	
	STATION AND OFFSET POINT	7		FENCE, REM	19	TRAFFIC SIGNAL TO REMAIN
	ADJACENT PROJECT	8		_BOLLARD, REM	20	CONTROL CABINET TO REMAIN
	SAWCUT PAVEMENT	9		PAVT MRKG, LONGIT, 6 INCH OR LESS WIDTH, REM	21	UTILITY POLE TO REMAIN
	SIDEWALK, REM	10		PEDESTRIAN LIGHT, REM (SEE ELECTRICAL PLANS)	22	PEDESTRIAN LIGHT TO BE REMOVED BY OTHERS
	_PAVT, REM, MODIFIED (FULL PAVEMENT DEPTH REMOVAL INCLUDING SUB-BASE MATERIAL. MAY INCLUDE BRICK / CONCRETE / HMA / AGGREGATE)	11		_FIXTURE TYPE M2, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)	23	COORDINATE CONSTRUCTION ACTIVITIES WITH ADJACENT PROJECT UNDER CONSTRUCTION BY DMC. SIDEWALK RAMPS OUTSIDE OF PROJECT CONSTRUCTION LIMITS TO BE REPLACED BY DMC.
	COLD MILLING HMA SURFACE (1'-0" WIDE)	12		_CONTROL CABINET, RELOCATED (REFER TO ELECTRICAL PLANS)	24	FIELD VERIFY SAWCUT LOCATIONS TO COORDINATE WITH EXISTING CHANGES IN PAVEMENT TYPES AND EXISTING JOINTS WITH ENGINEER PRIOR TO PROCEEDING WITH WORK.
	CLEARING, MODIFIED (REMOVE LAWN / TREE / SHRUB MASS, STUMP, ROOT STRUCTURE & STEEL EDGING)	13		PAVEMENT MARKING TO REMAIN	25	
	_RETAINING WALL, CONC, REM	14		_TREE PROTECTION FENCE	26	NO WORK ON BRIDGE EXCEPT FOR PAVEMENT MARKINGS

**M-D1.10 - DEMOLITION & EROSION CONTROL**

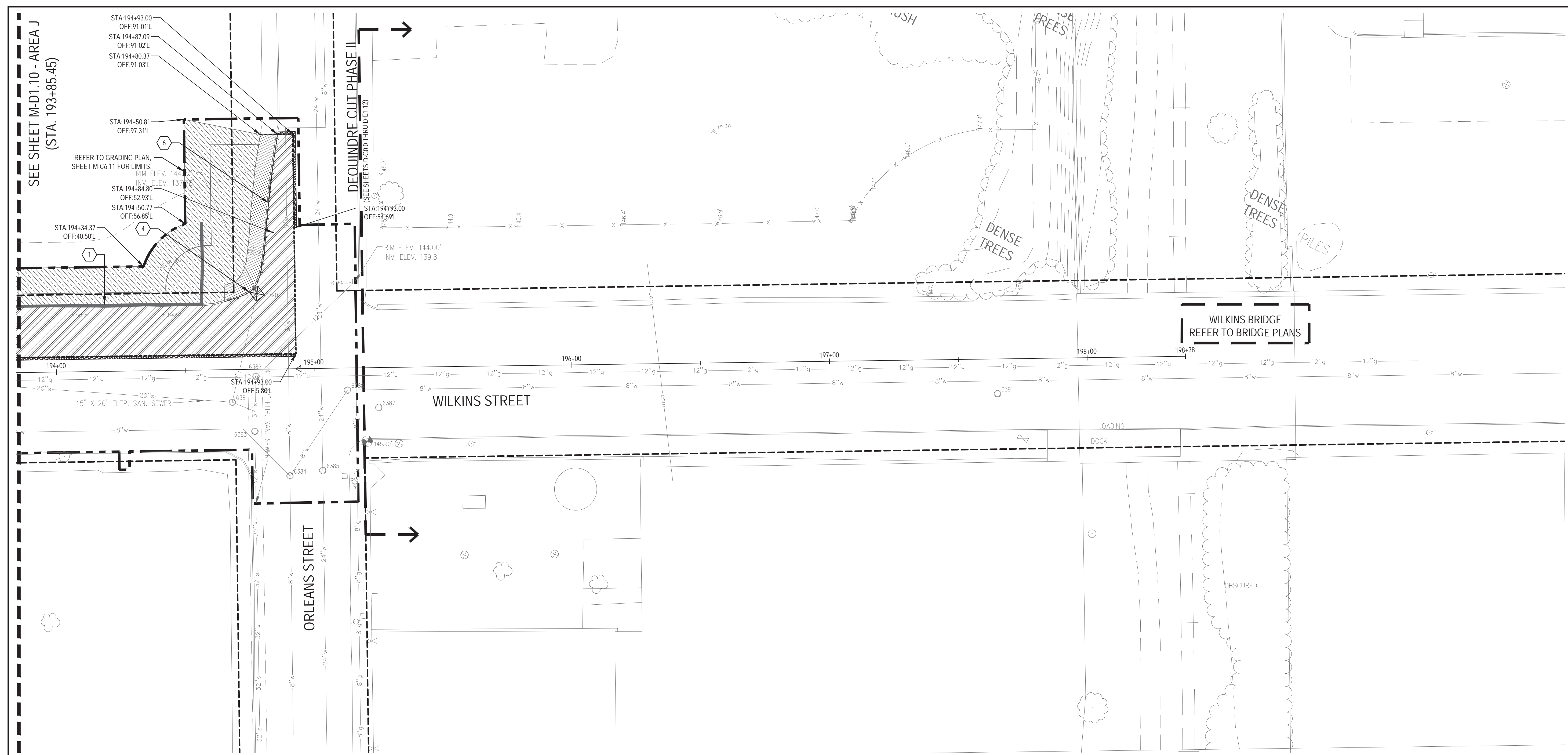
QTY	UNIT	ITEM DESCRIPTION
234	Syd	Sidewalk, Rem
1027	Syd	Pav, Rem, Modified
86	Syd	Cold Milling HMA Surface
0	Ft	Curb, Rem, Modified
0	Ea	Tree Protection Fence
0	Ea	Tree, Rem, 6 inch to 18 inch
0	Acre	Clearing, Modified
0	Ft	Fence, Rem
0	Ea	Bollard, Rem
278	Sft	Retaining Wall, Conc, Rem
4	Ea	Erosion Control, Inlet Protection, Fabric Drop
4	Ea	Erosion Control, Maintenance, Sediment Removal
0	LS	Property Access, Protection, Temp
0	Ft	Pavt Mrkg, Longit, 6 inches or Less Width, Rem
146	Sft	Rem Spec Mrkg

- NOTES:  
 1. REFER TO SHEET G0.4 FOR DEMO AND EROSION NOTES.  
 2. REFER TO SHEET M-V1.0 FOR SURVEY LEGEND.

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**Midtown Loop  
Phase IV**  
Midtown Loop  
Detroit, Michigan

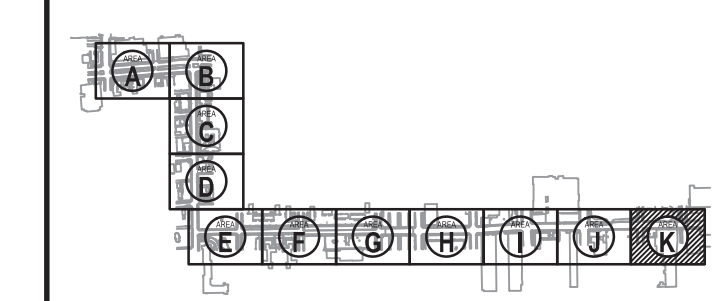


**MIDTOWN  
DETROIT**  
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ISSUED FOR	REV	DATE
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BIDDING DOCUMENTS	4	MAY 02 2013
100% CONSTRUCTION DOCUMENTS	3	APR 01 2013
GRADE INSPECTION	2	JAN 30 2013
80% CONSTRUCTION DOCUMENTS	1	JAN 07 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05 2012

SEALS AND SIGNATURES



DRAWING TITLE  
**DEMOLITION AND  
EROSION CONTROL  
PLAN - AREA K**

GRAPHIC SCALE  
TAKES PRECEDENCE  
FULL SIZE SCALE (24x36)  
1" = 20'-0"  
24708.003

PROJECT NUMBER  
**M-D1.11**

DRAWING NUMBER  
241 of 497

**MIDTOWN LOOP KEY NOTES AND LEGEND**

DEMOLITION AND EROSION CONTROL						
	CONSTRUCTION LIMIT LINE	3		TREE, REM, 6 INCH TO 18 INCH	15	FOR HYDRANT MODIFICATIONS, REFER TO UTILITY ADJUSTMENT PLANS
	RIGHT - OF - WAY LINE	4		EROSION CONTROL, INLET PROTECTION, FABRIC DROP (R-26-E)	16	FENCE TO REMAIN
	MATCH LINE	5		_CURB, REM, MODIFIED	17	STREET LIGHT TO REMAIN
	HORIZONTAL ALIGNMENT	6		CURB REMOVAL INCIDENTAL TO _PAVT, REM, MODIFIED	18	PEDESTRIAN TRAFFIC SIGNAL TO REMAIN
	STATION AND OFFSET POINT	7		FENCE, REM	19	TRAFFIC SIGNAL TO REMAIN
	ADJACENT PROJECT	8		_BOLLARD, REM	20	CONTROL CABINET TO REMAIN
	SAWCUT PAVEMENT	9		PAVT MRKG, LONGIT, 6 INCH OR LESS WIDTH, REM	21	UTILITY POLE TO REMAIN
	SIDEWALK, REM	10		REM SPEC MRKG	22	PEDESTRIAN LIGHT TO BE REMOVED BY OTHERS
	_PAVT, REM, MODIFIED (FULL PAVEMENT DEPTH REMOVAL INCLUDING SUB-BASE MATERIAL. MAY INCLUDE BRICK / CONCRETE / HMA / AGGREGATE)	11		_PEDESTRIAN LIGHT, REM (SEE ELECTRICAL PLANS)	23	COORDINATE CONSTRUCTION ACTIVITIES WITH ADJACENT PROJECT UNDER CONSTRUCTION BY DMC. SIDEWALK RAMPS OUTSIDE OF PROJECT CONSTRUCTION LIMITS TO BE REPLACED BY DMC.
	COLD MILLING HMA SURFACE (1'-0" WIDE)	12		_FIXTURE TYPE M2, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)	24	FIELD VERIFY SAWCUT LOCATIONS TO COORDINATE WITH EXISTING CHANGES IN PAVEMENT TYPES AND EXISTING JOINTS WITH ENGINEER PRIOR TO PROCEEDING WITH WORK.
	_CLEARING, MODIFIED (REMOVE LAWN / TREE / SHRUB MASS, STUMP, ROOT STRUCTURE & STEEL EDGING)	13		_CONTROL CABINET, RELOCATED (REFER TO ELECTRICAL PLANS)	25	PAVEMENT MARKING TO REMAIN
	_RETAINING WALL, CONC, REM	14		REFER TO ##### FOR TRAFFIC SIGNALIZATION CHANGES	26	NO WORK ON BRIDGE EXCEPT FOR PAVEMENT MARKINGS
	_TREE PROTECTION FENCE	2				

**M-D1.11 - DEMOLITION & EROSION CONTROL**

QTY	UNIT	ITEM DESCRIPTION
45	Syd	Sidewalk, Rem
313	Syd	_Pavt, Rem, Modified
17	Syd	Cold Milling HMA Surface
0	Ft	_Curb, Rem, Modified
0	Ea	_Tree Protection Fence
0	Ea	Tree, Rem, 6 inch to 18 inch
0	Acre	_Clearing, Modified
0	Ft	Fence, Rem
0	Ea	_Bollard, Rem
101	Sft	Retaining Wall, Conc, Rem
1	Ea	Erosion Control, Inlet Protection, Fabric Drop
1	Ea	Erosion Control, Maintenance, Sediment Removal
0	LS	_Property Access, Protection, Temp
0	Ft	Pavt Mrkg, Longit, 6 inches or Less Width, Rem
0	Sft	Rem Spec Mrkg

- NOTES:
- REFER TO SHEET G0.4 FOR DEMO AND EROSION NOTES.
  - REFER TO SHEET M-V1.0 FOR SURVEY LEGEND.



# Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



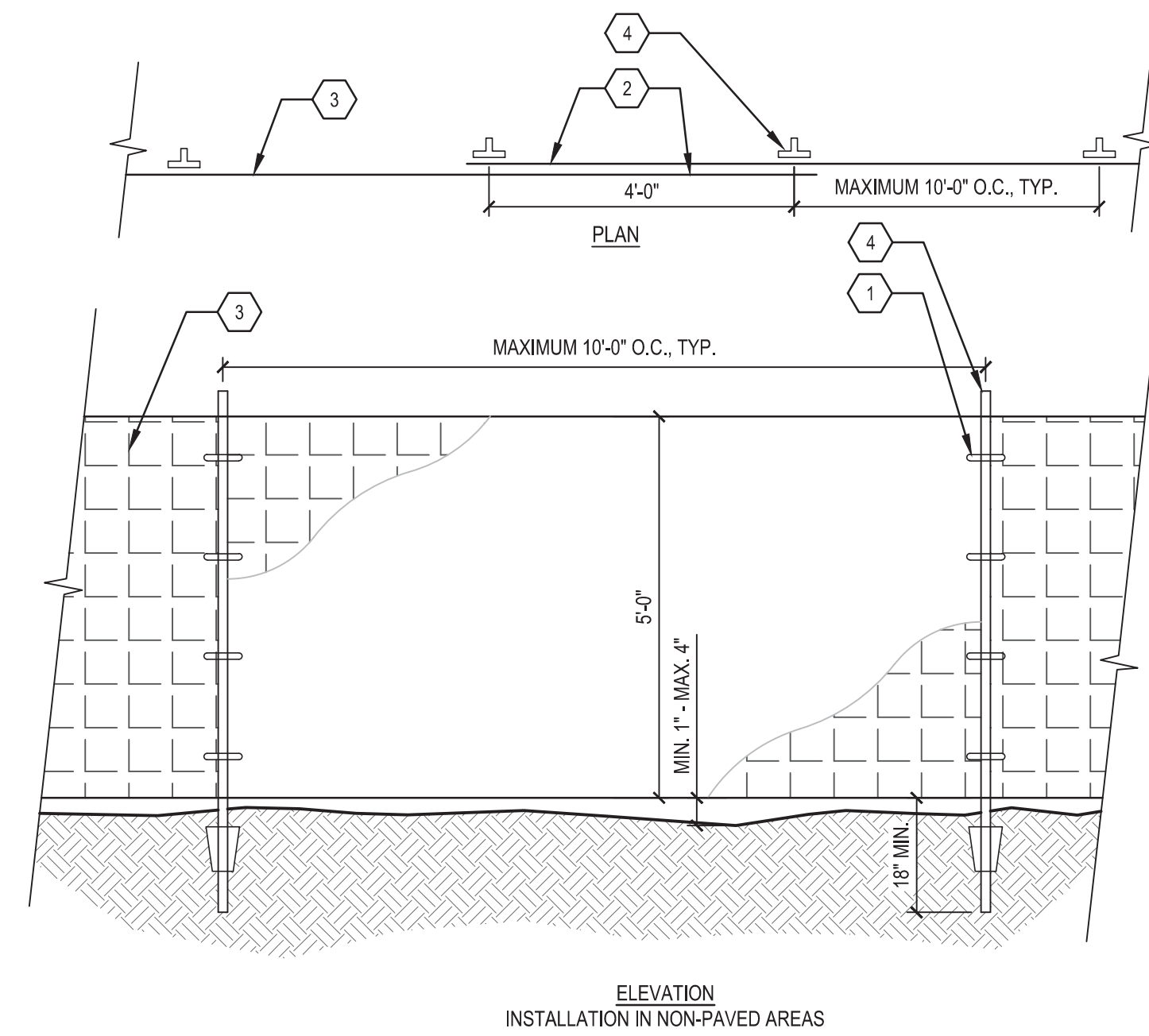
City of Detroit



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- 1 HEAVY DUTY PVC TIES EQ. SPACED MIN. FOUR PER POST
- 2 OVERLAP MIN. ONE POST LENGTH AT ENDS OF ROLL AND AT CORNERS
- 3 HDPE HEAVY DUTY CONSTRUCTION FENCE (SNOW FENCE) UV STABILIZED, 3200 PSI TENSILE YIELD, 370 LBS. PER FOOT TENSILE STRENGTH, 50-60% MESH OPENING.
- 4 BLACK STEEL "T" POSTS FOR DIRECT BURY
- 5 BLACK STEEL "T" POSTS WITH LEGS
- 6 EXISTING PAVEMENT
- 7 SAND BAGS PLACED ON POST LEGS ON BOTH SIDES OF FENCE

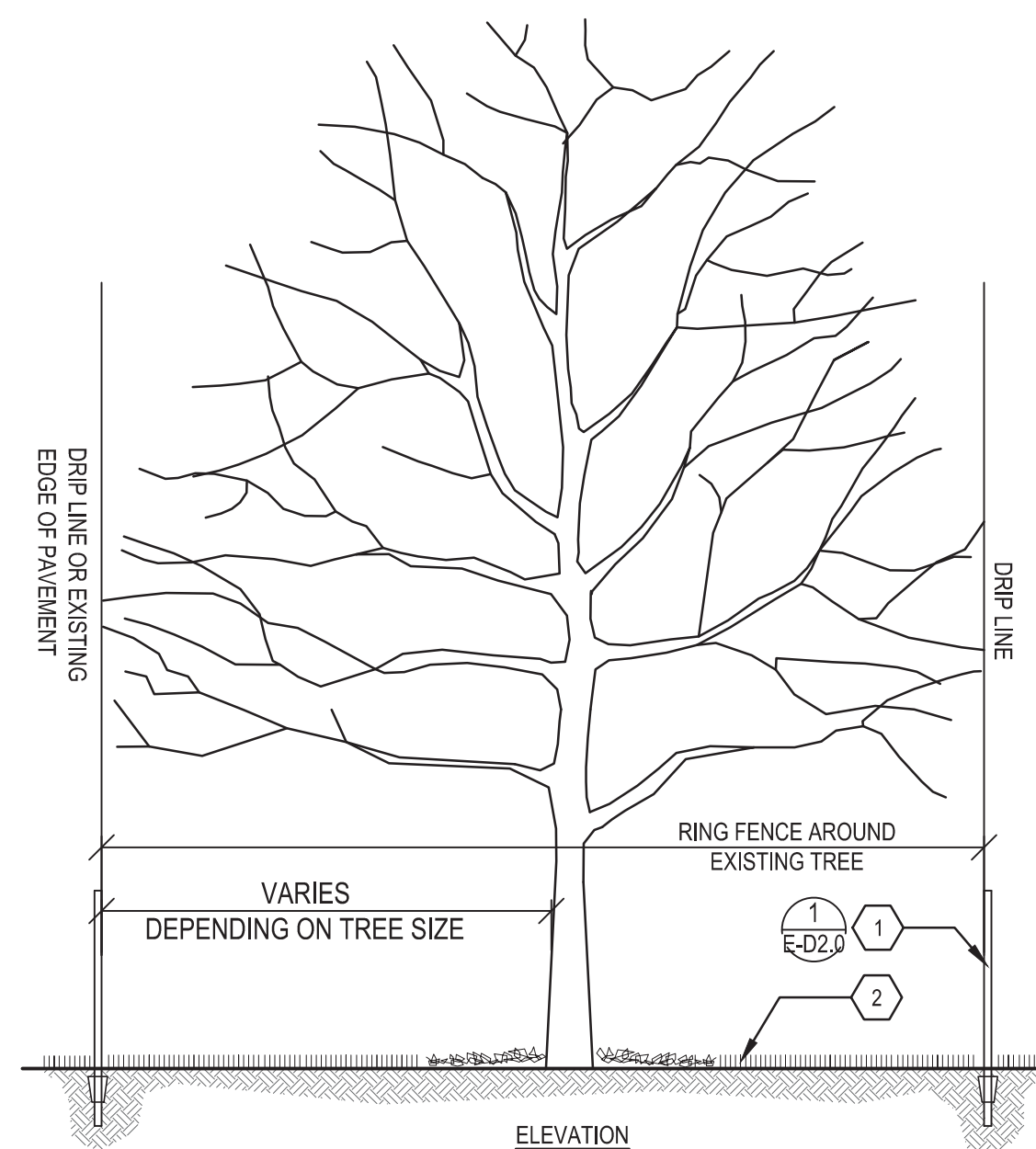
### NOTES

1. SNOW FENCE COLOR SHALL BE BRIGHT ORANGE.
2. MAINTAIN FENCE IN GOOD WORKING ORDER DURING CONSTRUCTION. INSPECT AT A MINIMUM ONCE A WEEK AND REPAIR/REPLACE ANY DAMAGED SECTIONS.
3. ENSURE FENCE IS SECURELY ATTACHED TO STEEL POST. MAINTAIN FENCE FABRIC IN A VERTICAL POSITION WITHOUT SAGGING. ADD ADDITIONAL POSTS IF NECESSARY.
4. PAID FOR AS PART OF \_PROPERTY ACCESS, PROTECTION, TEMP AND \_TREE PROTECTION FENCE.

## 1 CONSTRUCTION FENCE

SECTION, PLAN AND ISOMETRIC

NTS



### NOTES

1. TREE PROTECTION FENCING IS TO BE ERECTED PRIOR TO ANY EARTHWORK OR CONSTRUCTION AND IS TO REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETE.
2. ALL DEBRIS, FILL, EQUIPMENT OR MATERIAL IS TO BE KEPT CLEAR OF AREA WITHIN PROTECTIVE FENCE. NO CLEANING OF EQUIPMENT, OR MATERIAL, OR STORAGE, OR DISPOSAL OF ANY MATERIAL WITHIN THE DRIP LINE OF ANY TREES TO BE SAVED.
3. TREE PROTECTION FENCE CAN BE COMBINED TO INCLUDE MULTIPLE TREES.
4. FIELD CONFIRM TREE PROTECTION LOCATIONS WITH OWNER PRIOR TO CONSTRUCTION.
5. MAINTAIN TREE PROTECTION IN GOOD VERTICAL CONDITION FOR THE DURATION OF THE PROJECT.
6. REMOVE AND DISPOSE OF MATERIALS AT PROJECT COMPLETION.

- 1 SET 5' HIGH CONSTRUCTION FENCE AT DRIP LINE
- 2 NO EQUIPMENT TO BE USED WITHIN THE DRIP LINE. EXISTING GRADE SHALL NOT BE DISTURBED UNLESS APPROVED BY OWNER'S REPRESENTATIVE.

## 2 TREE PROTECTION FENCE

SECTION

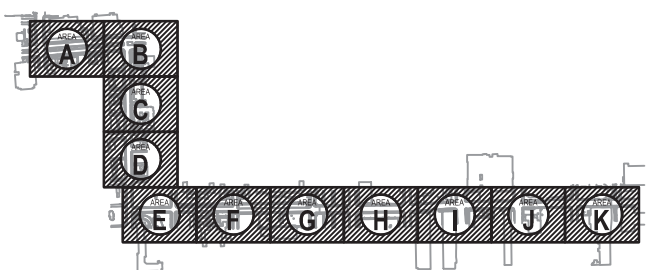
NTS

ISSUED FOR	REV	DATE
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GRADE INSPECTION	2	JAN 30, 2013
80% CONSTRUCTION DOCUMENTS	1	JAN 07, 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05, 2012

SEALS AND SIGNATURES

KEY PLAN

Project North



DRAWING TITLE

## DEMOLITION AND EROSION CONTROL DETAILS

0 10' 20' 40'

GRAPHIC SCALE TAKES PRECEDENCE AS NOTED  
FULL SIZE SCALE (24x36) 24708.003

PROJECT NUMBER

M-D1.12

DRAWING NUMBER

242 of 497



# Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit

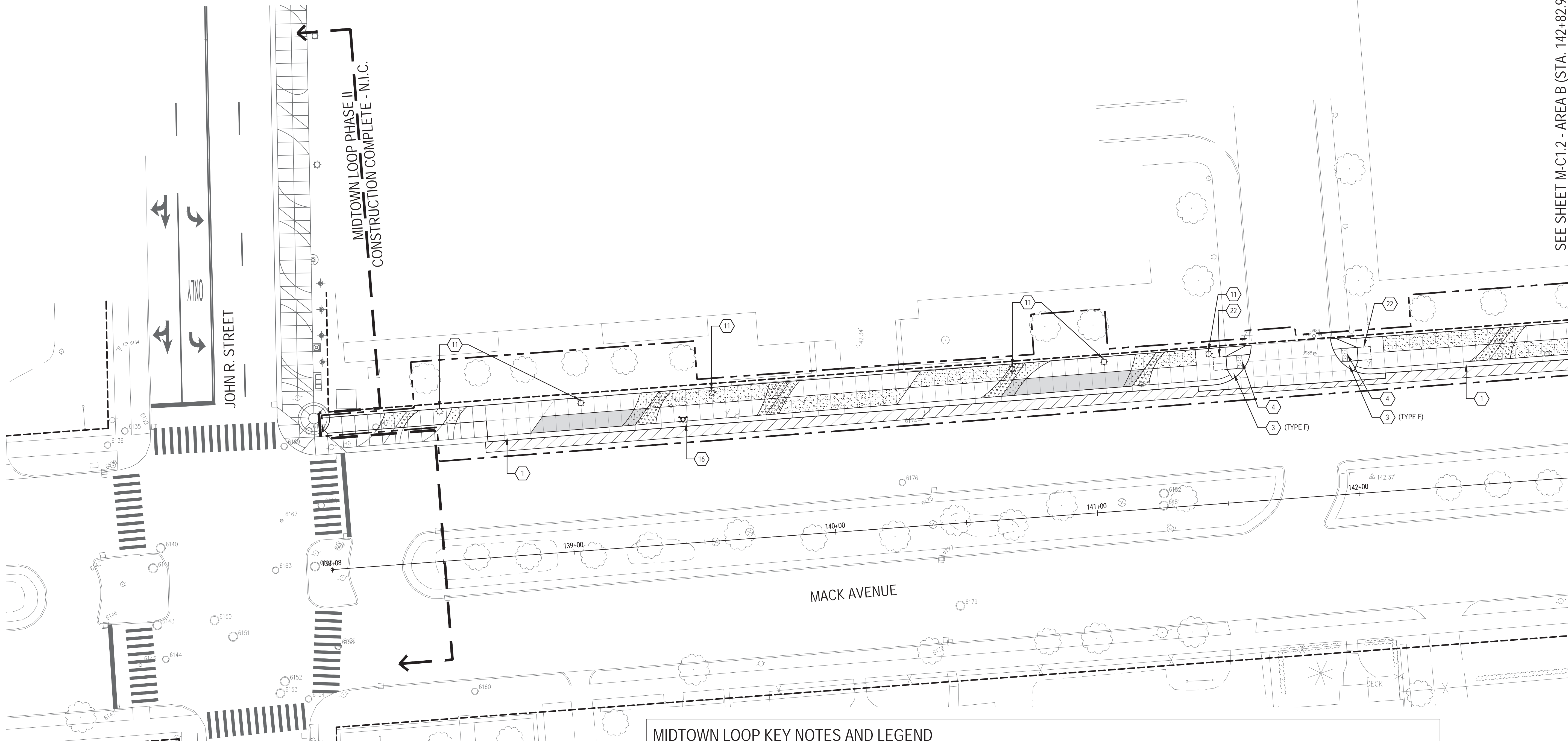


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SEE SHEET M-C1.2 - AREA B (STA. 142+82.90)



ISSUED FOR	REV	DATE
BIDDING DOCUMENTS	5	MAY 21, 2013
BIDDING DOCUMENTS	4	MAY 02, 2013
100% CONSTRUCTION DOCUMENTS	3	APR 01, 2013
GRADE INSPECTION	2	JAN 30, 2013
80% CONSTRUCTION DOCUMENTS	1	JAN 07, 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05, 2012

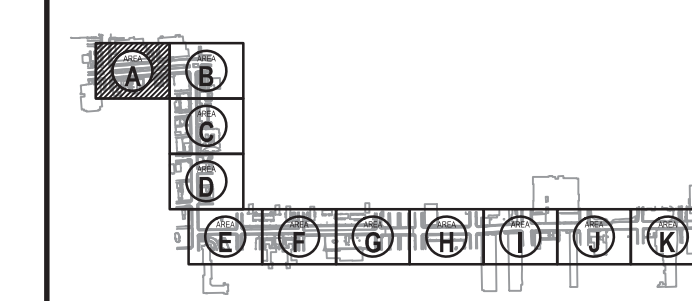
SEALS AND SIGNATURES

M-C1.1 - PAVING AND MATERIALS		
QTY	UNIT	ITEM DESCRIPTION
2487	Sft	Sidewalk, Conc, 4 inch, Modified
540	Sft	Sidewalk, Integral Color Conc, Type 2 (Green), 4 inch, Modified
1415	Sft	Sidewalk, Integral Color Conc, Type 3 (Limestone), 4 inch, Modified
347	Sft	Sidewalk, Conc, 6 inch, Modified
675	Sft	Conc Pavt, Misc, 9 inch, Reinf, Modified
1104	Sft	Conc, Base Pavt, 9 inch, Modified
333	Sft	Chemically Stained Colored Concrete, Type 4, (Antique Amber)
375	Sft	Chemically Stained Colored Concrete, Type 5, (Dark Walnut)
0	Cyd	Aggregate Surface Cse
24	Ton	Hand Patching
370	Ft	Integral Curb and Sidewalk, 2 Foot, Modified
0	Ft	Curb, Conc, Separate, 6 inch, Modified
0	Sft	Curb, Conc, Island
91	Cyd	Granular Material, CI II
97	Ton	Aggregate Base
151	Sft	Sidewalk Ramp, ADA, Modified
10	Ft	Detectable Warning Surface Tile, Modified
0	Ea	Bench, Type M
0	Ea	Trash Receptacle, Type M
0	Ea	Bike Rack, Type M
0	Ea	Dog Litter Receptacle, Type M
0	Ea	Drinking Fountain
0	Ea	Wayfinding Column, Foundation

NOTE:  
1. REFER TO DRAWING G05 FOR PAVING AND MATERIALS NOTES.

### MIDTOWN LOOP KEY NOTES AND LEGEND

PAVING AND MATERIALS KEY NOTES AND LEGEND			
	CONSTRUCTION LIMIT LINE	1	INTEGRAL CURB AND SIDEWALK, 2 FOOT, MODIFIED
	RIGHT - OF - WAY LINE	2	CURB, CONC, SEPARATE, 6 INCH, MODIFIED
	MATCH LINE	3	SIDEWALK RAMP, ADA, MODIFIED (R-28-H)
	HORIZONTAL ALIGNMENT	4	DETECTABLE WARNING SURFACE TILE, MODIFIED (R-28-H)
	ADJACENT PROJECT	5	BENCH, TYPE M
	SIDEWALK, CONC, _ INCH, MODIFIED (NO COLOR)	6	BIKE RACKS
	SIDEWALK, INTEGRAL COLOR CONC, TYPE 2 (GREEN), _ INCH, MODIFIED	7	DOG LITTER RECEPTACLE, TYPE M
	SIDEWALK, INTEGRAL COLOR CONC, TYPE 3 (LIMESTONE), _ INCH, MODIFIED	8	DRINKING FOUNTAIN
	CHEMICALLY STAINED COLORED CONCRETE, TYPE 4 (ANTIQUE AMBER)	9	TRASH RECEPTACLE, TYPE M
	CHEMICALLY STAINED COLORED CONCRETE, TYPE 5 (DARK WALNUT)	10	WAYFINDING COLUMN, FOUNDATION
	HAND PATCHING AND _CONC, PAVT, MISC, 9 INCH, REINF, MODIFIED	11	FIXTURE TYPE M1 (REFER TO ELECTRICAL PLANS)
	CONC, PAVT, MISC, 9 INCH, REINF, MODIFIED	12	FIXTURE TYPE M2, PLD (REFER TO ELECTRICAL PLANS)
	AGGREGATE SURFACE CSE	13	FIXTURE TYPE M3 (REFER TO ELECTRICAL PLANS)
	FIXTURE TYPE M2, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)	14	STREET LIGHT, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)
	HYDRANT, RELOCATE (REFER TO UTILITY PLANS)	15	CATCH BASIN "A" OR "B" - WITH TRAP (REFER TO UTILITY PLANS)
	CURB INCIDENTAL TO _SIDEWALK RAMP, ADA MODIFIED	16	DRIVE OR ALLEY APPROACH, TYPE M
	COORDINATE CONSTRUCTION ACTIVITIES WITH ADJACENT PROJECT UNDER CONSTRUCTION BY DMC. CONSTRUCTION BY DMC. SIDEWALK RAMP'S OUTSIDE OF PROJECT CONSTRUCTION LIMITS TO BE REPLACED BY DMC.	17	NO WORK ON BRIDG EXCEPT FOR PAVEMENT MARKINGS
	AREA TO BE GRADED TO ADA LANDING REQUIREMENTS. REFER TO JOINTING PLANS FOR JOINT LOCATIONS.	18	
		19	
		20	
		21	
		22	



### PAVING AND MATERIALS PLAN - AREA A

GRAPHIC SCALE 1" = 20'-0"  
TAKES PRECEDENCE  
FULL SIZE SCALE (24x36)  
24708.003

PROJECT NUMBER  
**M-C1.1**  
DRAWING NUMBER  
243 of 497



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SEE SHEET M-C1.1 - AREA A (STA. 142+82.90)

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SEE SHEET M-C1.3 - AREA C (STA. 147+46.89)

MIDTOWN LOOP KEY NOTES AND LEGEND

PAVING AND MATERIALS KEY NOTES AND LEGEND							
	CONSTRUCTION LIMIT LINE	1		_INTEGRAL CURB AND SIDEWALK, 2 FOOT, MODIFIED	14		_FIXTURE TYPE M2, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)
	RIGHT - OF - WAY LINE	2		_CURB, CONC. SEPARATE, 6 INCH, MODIFIED	15		_STREET LIGHT, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)
	MATCH LINE	3		_SIDEWALK RAMP, ADA, MODIFIED (R-28-H)	16		_HYDRANT, RELOCATE (REFER TO UTILITY PLANS)
	HORIZONTAL ALIGNMENT	4		_DETECTABLE WARNING SURFACE TILE, MODIFIED (R-28-H)	17		_CATCH BASIN "A" OR "B" - WITH TRAP (REFER TO UTILITY PLANS)
	ADJACENT PROJECT	5		_BENCH, TYPE M	18		CURB INCIDENTAL TO _SIDEWALK RAMP, ADA MODIFIED
	_SIDEWALK, CONC., 4 INCH, MODIFIED (NO COLOR)	12		_BIKE RACK, TYPE M	19		DRIVE OR ALLEY APPROACH, TYPE M
	_SIDEWALK, INTEGRAL COLOR CONC, TYPE 2 (GREEN), 4 INCH, MODIFIED	7		_DOG LITTER RECEPTACLE, TYPE M	20		COORDINATE CONSTRUCTION ACTIVITIES WITH ADJACENT PROJECT UNDER CONSTRUCTION BY DMC. CONSTRUCTION BY DMC. SIDEWALK RAMPS OUTSIDE OF PROJECT CONSTRUCTION LIMITS TO BE REPLACED BY DMC.
	_SIDEWALK, INTEGRAL COLOR CONC, TYPE 3 (LIMESTONE), 4 INCH, MODIFIED	8		_DRINKING FOUNTAIN	21		NO WORK ON BRDG EXCEPT FOR PAVEMENT MARKINGS
	_CHEMICALLY STAINED COLORED CONCRETE, TYPE 4 (ANTIQUe AMBER)	9		_TRASH RECEPTACLE, TYPE M	22		AREA TO BE GRADED TO ADA LANDING REQUIREMENTS. REFER TO JOINTING PLANS FOR JOINT LOCATIONS.
	_CHEMICALLY STAINED COLORED CONCRETE, TYPE 5 (DARK WALNUT)	10		_WAYFINDING COLUMN, FOUNDATION			
	HAND PATCHING AND _CONC. PAVT, MISC, 9 INCH, REINF, MODIFIED	11		_FIXTURE TYPE M1 (REFER TO ELECTRICAL PLANS)			
	_CONC. PAVT, MISC, 9 INCH, REINF, MODIFIED	13		_FIXTURE TYPE M2, PLD (REFER TO ELECTRICAL PLANS)			
	AGGREGATE SURFACE CSE	13		_FIXTURE TYPE M3 (REFER TO ELECTRICAL PLANS)			

MACK AVENUE

CITY OF DETROIT PROPERTY

BRUSH STREET

M-C1.2 - PAVING AND MATERIALS

QTY	UNIT	ITEM DESCRIPTION
1773	Sft	Sidewalk, Conc, 4 inch, Modified
1088	Sft	Sidewalk, Integral Color Conc, Type 2 (Green), 4 inch, Modified
1069	Sft	Sidewalk, Integral Color Conc, Type 3 (Limestone), 4 inch, Modified
820	Sft	Sidewalk, Conc, 6 inch, Modified
2400	Sft	Conc Pavt, Misc, 9 inch, Reinf, Modified
1006	Sft	Conc, Base Pavt, 9 inch, Modified
598	Sft	Chemically Stained Colored Concrete, Type 4, (Antique Amber)
586	Sft	Chemically Stained Colored Concrete, Type 5, (Dark Walnut)
0	Cyd	Aggregate Surface Cse
22	Ton	Hand Patching
426	Ft	Integral Curb and Sidewalk, 2 Foot, Modified
0	Ft	Curb, Conc, Separate, 6 inch, Modified
0	Sft	Curb, Conc, Island
93	Cyd	Granular Material, CI II
158	Ton	Aggregate Base
297	Sft	Sidewalk Ramp, ADA, Modified
28	Ft	Detectable Warning Surface Tile, Modified
4	Ea	Bench, Type M
2	Ea	Trash Receptacle, Type M
0	Ea	Bike Rack, Type M
1	Ea	Dog Litter Receptacle, Type M
1	Ea	Drinking Fountain
1	Ea	Wayfinding Column, Foundation

NOTE:  
1. REFER TO DRAWING G0.5 FOR PAVING AND MATERIALS NOTES.

Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



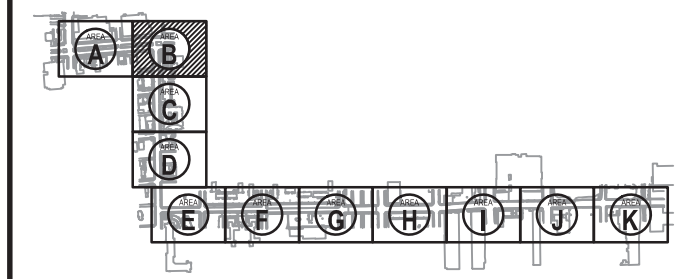
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BIDDING DOCUMENTS	4	MAY 02 2013
100% CONSTRUCTION DOCUMENTS	3	APR 01 2013
GRADE INSPECTION	2	JAN 30 2013
80% CONSTRUCTION DOCUMENTS	1	JAN 07 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05 2012

SEALS AND SIGNATURES



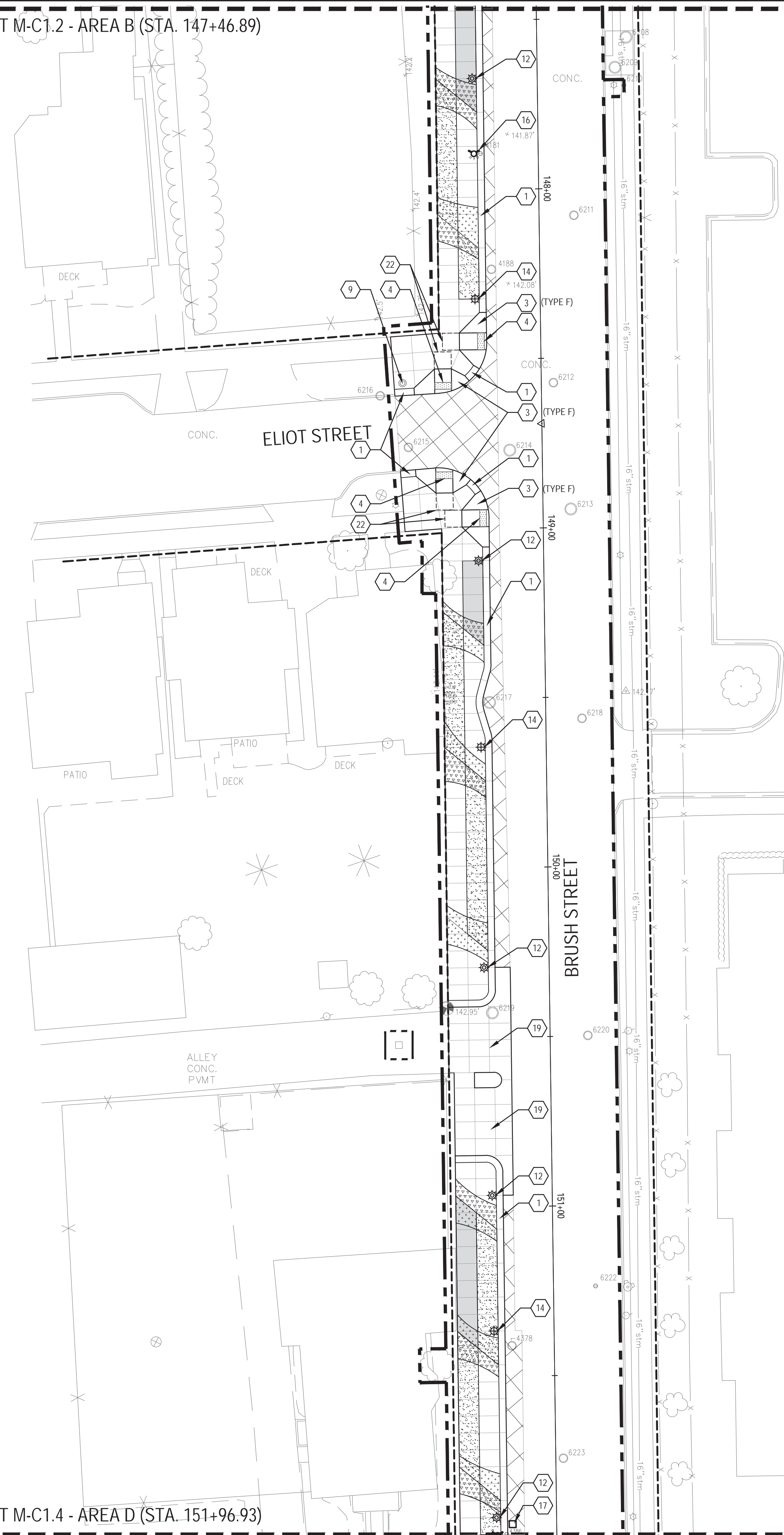
DRAWING TITLE  
PAVING AND MATERIALS  
PLAN - AREA B

GRAPHIC SCALE  
TAKES PRECEDENCE  
FULL SIZE SCALE (24x36)  
1" = 20'-0"  
24708.003

PROJECT NUMBER  
M-C1.2  
DRAWING NUMBER  
244 of 497



SEE SHEET M-C1.2 - AREA B (STA. 147+46.89)



SEE SHEET M-C1.4 - AREA D (STA. 151+96.93)

MIDTOWN LOOP KEY NOTES AND LEGEND

PAVING AND MATERIALS KEY NOTES AND LEGEND							
	CONSTRUCTION LIMIT LINE	1		_INTEGRAL CURB AND SIDEWALK, 2 FOOT, MODIFIED	14		_FIXTURE TYPE M2, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)
	RIGHT - OF - WAY LINE	2		_CURB, CONC. SEPARATE, 6 INCH, MODIFIED	15		_STREET LIGHT, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)
	MATCH LINE	3		_SIDEWALK RAMP, ADA, MODIFIED (R-28-H)	16		_HYDRANT, RELOCATE (REFER TO UTILITY PLANS)
	HORIZONTAL ALIGNMENT	4		_DETECTABLE WARNING SURFACE TILE, MODIFIED (R-28-H)	17		_CATCH BASIN "A" OR "B" - WITH TRAP (REFER TO UTILITY PLANS)
	ADJACENT PROJECT	5		_BENCH, TYPE M	18		CURB INCIDENTAL TO _SIDEWALK RAMP, ADA MODIFIED
	_SIDEWALK, CONC., _INCH, MODIFIED (NO COLOR)	12		_BIKE RACK, TYPE M	19		DRIVE OR ALLEY APPROACH, TYPE M
	_SIDEWALK, INTEGRAL COLOR CONC, TYPE 2 (GREEN), _INCH, MODIFIED	7		_DOG LITTER RECEPTACLE, TYPE M	20		COORDINATE CONSTRUCTION ACTIVITIES WITH ADJACENT PROJECT UNDER CONSTRUCTION BY DMC. CONSTRUCTION BY DMC. SIDEWALK RAMPS OUTSIDE OF PROJECT CONSTRUCTION LIMITS TO BE REPLACED BY DMC.
	_SIDEWALK, INTEGRAL COLOR CONC, TYPE 3 (LIMESTONE), _INCH, MODIFIED	8		_DRINKING FOUNTAIN	21		NO WORK ON BRIDGE EXCEPT FOR PAVEMENT MARKINGS
	_CHEMICALLY STAINED COLORED CONCRETE, TYPE 4 (ANTIQUE AMBER)	9		_TRASH RECEPTACLE, TYPE M	22		AREA TO BE GRADED TO ADA LANDING REQUIREMENTS. REFER TO JOINTING PLANS FOR JOINT LOCATIONS.
	_CHEMICALLY STAINED COLORED CONCRETE, TYPE 5 (DARK WALNUT)	10		_WAYFINDING COLUMN, FOUNDATION			
	HAND PATCHING AND _CONC. PAVT, MISC, 9 INCH, REINF, MODIFIED	11		_FIXTURE TYPE M1 (REFER TO ELECTRICAL PLANS)			
	_CONC. PAVT, MISC, 9 INCH, REINF, MODIFIED	12		_FIXTURE TYPE M2, PLD (REFER TO ELECTRICAL PLANS)			
	AGGREGATE SURFACE CSE	13		_FIXTURE TYPE M3 (REFER TO ELECTRICAL PLANS)			

M-C1.3 - PAVING AND MATERIALS

QTY	UNIT	ITEM DESCRIPTION
1654	Sft	Sidewalk, Conc, 4 inch, Modified
544	Sft	Sidewalk, Integral Color Conc, Type 2 (Green), 4 inch, Modified
1440	Sft	Sidewalk, Integral Color Conc, Type 3 (Limestone), 4 inch, Modified
715	Sft	Sidewalk, Conc, 6 inch, Modified
3159	Sft	Conc Pavt, Misc, 9 inch, Reinf, Modified
0	Sft	Conc, Base Pavt, 9 inch, Modified
562	Sft	Chemically Stained Colored Concrete, Type 4, (Antique Amber)
512	Sft	Chemically Stained Colored Concrete, Type 5, (Dark Walnut)
0	Cyd	Aggregate Surface Cse
0	Ton	Hand Patching
381	Ft	Integral Curb and Sidewalk, 2 Foot, Modified
0	Ft	Curb, Conc, Separate, 6 inch, Modified
34	Sft	Curb, Conc, Island
87	Cyd	Granular Material, CI II
157	Ton	Aggregate Base
356	Sft	Sidewalk Ramp, ADA, Modified
20	Ft	Detectable Warning Surface Tile, Modified
4	Ea	Bench, Type M
2	Ea	Trash Receptacle, Type M
0	Ea	Bike Rack, Type M
1	Ea	Dog Litter Receptacle, Type M
1	Ea	Drinking Fountain
1	Ea	Wayfinding Column, Foundation

NOTE:  
1. REFER TO DRAWING G05 FOR PAVING AND MATERIALS NOTES.

Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



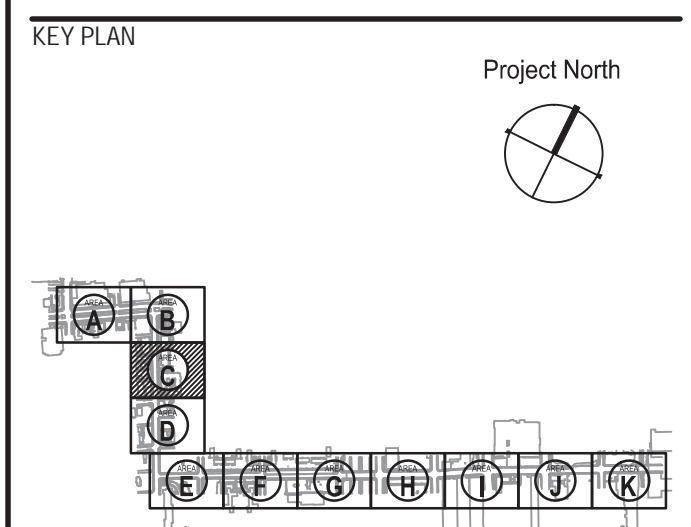
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BIDDING DOCUMENTS	4	MAY 02, 2013
100% CONSTRUCTION DOCUMENTS	3	APR 01, 2013
GRADE INSPECTION	2	JAN 30, 2013
80% CONSTRUCTION DOCUMENTS	1	JAN 07, 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05, 2012

SEALS AND SIGNATURES



DRAWING TITLE  
PAVING AND MATERIALS  
PLAN - AREA C

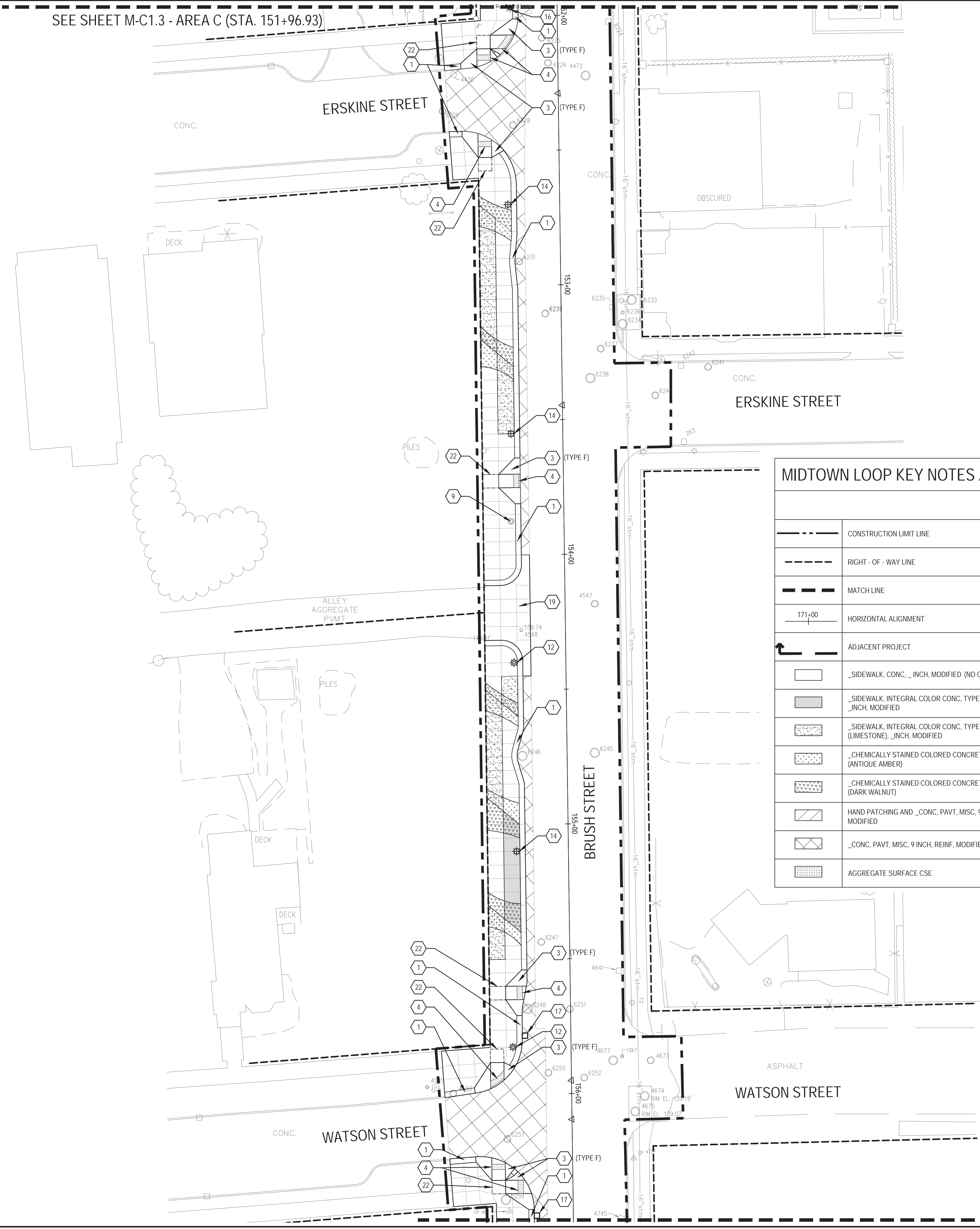
GRAPHIC SCALE  
TAKES PRECEDENCE  
FULL SIZE SCALE (24x36)  
1"=20'-0"  
24708.003

PROJECT NUMBER  
DRAWING NUMBER  
M-C1.3  
245 of 497



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SEE SHEET M-C1.3 - AREA C (STA. 151+96.93)



M-C1.4 - PAVING AND MATERIALS

QTY	UNIT	ITEM DESCRIPTION
1115	Sft	_Sidewalk, Conc, 4 inch, Modified
240	Sft	_Sidewalk, Integral Color Conc, Type 2 (Green), 4 inch, Modified
885	Sft	_Sidewalk, Integral Color Conc, Type 3 (Limestone), 4 inch, Modified
2045	Sft	_Sidewalk, Conc, 6 inch, Modified
3881	Sft	_Conc Pavt, Misc, 9 inch, Reinf, Modified
0	Sft	_Conc, Base Pavt, 9 inch, Modified
335	Sft	_Chemically Stained Colored Concrete, Type 4, (Antique Amber)
352	Sft	_Chemically Stained Colored Concrete, Type 5, (Dark Walnut)
0	Cyd	Aggregate Surface Cse
0	Ton	Hand Patching
353	Ft	_Integral Curb and Sidewalk, 2 Foot, Modified
0	Ft	_Curb, Conc, Separate, 6 inch, Modified
0	Sft	_Curb, Conc, Island
92	Cyd	Granular Material, CI II
176	Ton	Aggregate Base
678	Sft	_Sidewalk Ramp, ADA, Modified
40	Ft	_Detectable Warning Surface Tile, Modified
0	Ea	_Bench, Type M
1	Ea	_Trash Receptacle, Type M
0	Ea	_Bike Rack, Type M
0	Ea	_Dog Litter Receptacle, Type M
0	Ea	_Drinking Fountain
0	Ea	_Wayfinding Column, Foundation

NOTE:  
1. REFER TO DRAWING G0.5 FOR PAVING AND MATERIALS NOTES.

MIDTOWN LOOP KEY NOTES AND LEGEND

PAVING AND MATERIALS KEY NOTES AND LEGEND							
	CONSTRUCTION LIMIT LINE	1		_INTEGRAL CURB AND SIDEWALK, 2 FOOT, MODIFIED	14		_FIXTURE TYPE M2, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)
	RIGHT-OF-WAY LINE	2		_CURB, CONC, SEPARATE, 6 INCH, MODIFIED	15		_STREET LIGHT, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)
	MATCH LINE	3		_SIDEWALK RAMP, ADA, MODIFIED (R-28-H)	16		_HYDRANT, RELOCATE (REFER TO UTILITY PLANS)
	HORIZONTAL ALIGNMENT	4		_DETECTABLE WARNING SURFACE TILE, MODIFIED (R-28-H)	17		_CATCH BASIN "A" OR "B" - WITH TRAP (REFER TO UTILITY PLANS)
	ADJACENT PROJECT	5		_BENCH, TYPE M	18		CURB INCIDENTAL TO _SIDEWALK RAMP, ADA MODIFIED
	_SIDEWALK, CONC, _INCH, MODIFIED (NO COLOR)	6		_BIKE RACK, TYPE M	19		DRIVE OR ALLEY APPROACH, TYPE M
	_SIDEWALK, INTEGRAL COLOR CONC, TYPE 2 (GREEN), _INCH, MODIFIED	7		_DOG LITTER RECEPTACLE, TYPE M	20		COORDINATE CONSTRUCTION ACTIVITIES WITH ADJACENT PROJECT UNDER CONSTRUCTION BY DMC. CONSTRUCTION BY DMC. SIDEWALK RAMPS OUTSIDE OF PROJECT CONSTRUCTION LIMITS TO BE REPLACED BY DMC.
	_SIDEWALK, INTEGRAL COLOR CONC, TYPE 3 (LIMESTONE), _INCH, MODIFIED	8		_DRINKING FOUNTAIN	21		NO WORK ON BRIDG EXCEPT FOR PAVEMENT MARKINGS
	_CHEMICALLY STAINED COLORED CONCRETE, TYPE 4 (ANTIQUÉ AMBER)	9		_TRASH RECEPTACLE, TYPE M	22		AREA TO BE GRADED TO ADA LANDING REQUIREMENTS. REFER TO JOINTING PLANS FOR JOINT LOCATIONS.
	_CHEMICALLY STAINED COLORED CONCRETE, TYPE 5 (DARK WALNUT)	10		_WAYFINDING COLUMN, FOUNDATION			
	HAND PATCHING AND _CONC, PAVT, MISC, 9 INCH, REINF, MODIFIED	11		_FIXTURE TYPE M1 (REFER TO ELECTRICAL PLANS)			
	_CONC, PAVT, MISC, 9 INCH, REINF, MODIFIED	12		_FIXTURE TYPE M2, PLD (REFER TO ELECTRICAL PLANS)			
	AGGREGATE SURFACE CSE	13		_FIXTURE TYPE M3 (REFER TO ELECTRICAL PLANS)			

Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



Midtown Detroit, Inc.

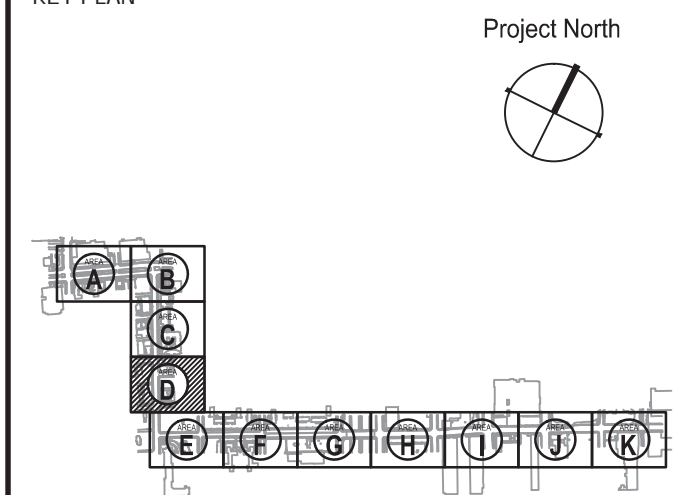
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80% CONSTRUCTION DOCUMENTS	1	JAN 07 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05 2012

SEALS AND SIGNATURES

KEY PLAN



DRAWING TITLE  
PAVING AND MATERIALS  
PLAN - AREA D

GRAPHIC SCALE  
TAKES PRECEDENCE  
FULL SIZE SCALE (24x36)  
1"=20'-0"  
24708.003

PROJECT NUMBER

M-C1.4

DRAWING NUMBER

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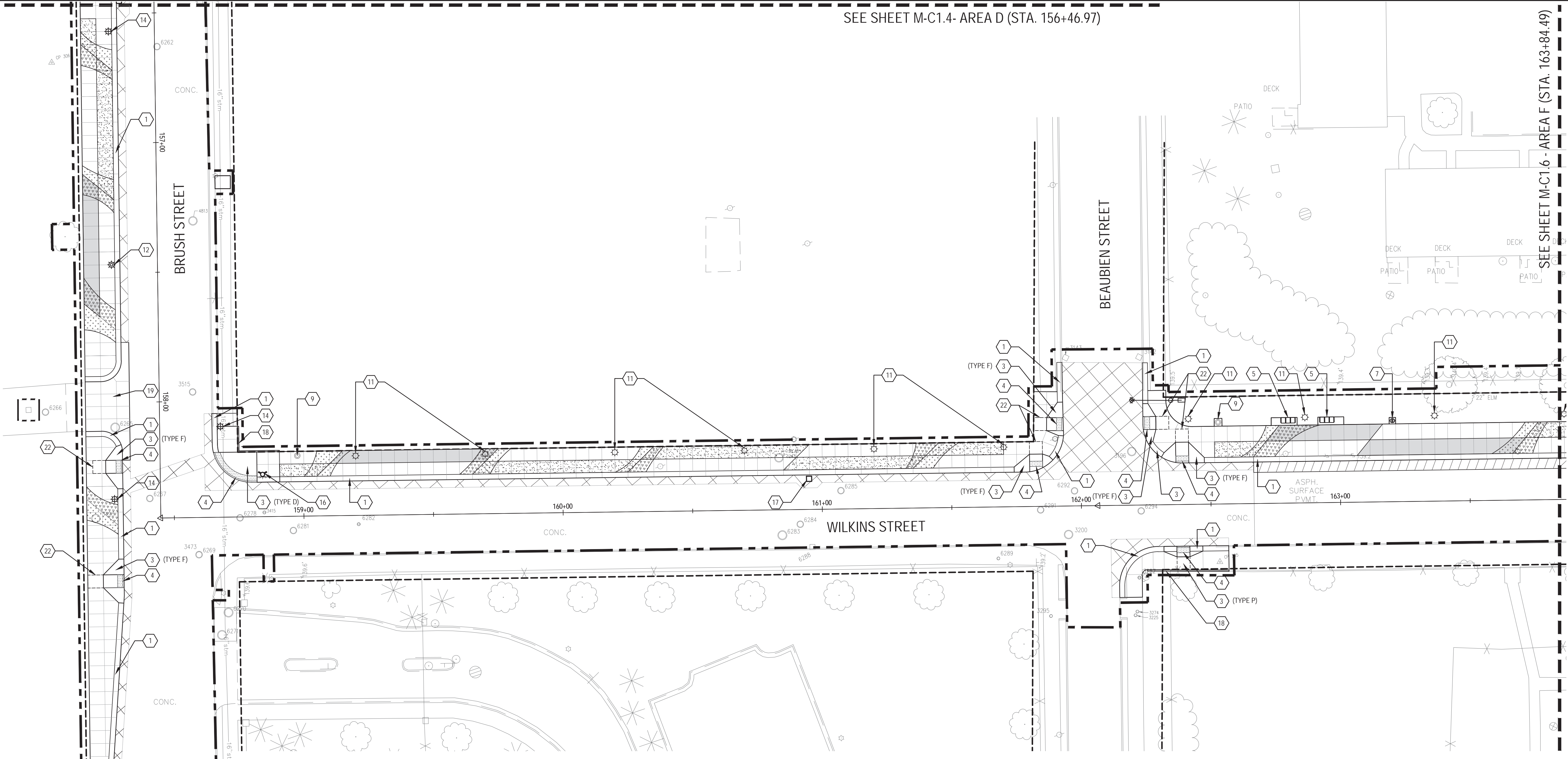
SEE SHEET M-C1.5 - AREA E (STA. 156+46.97)



3 WORKING DAYS  
BEFORE YOU DIG  
CALL MISS DIG  
1-800-482-7171

SEE SHEET M-C1.4- AREA D (STA. 156+46.97)

SEE SHEET M-C1.6- AREA F (STA. 163+84.49)



**M-C1.5 - PAVING AND MATERIALS**

QTY	UNIT	ITEM DESCRIPTION
3985	Sft	Sidewalk, Conc, 4 inch, Modified
1191	Sft	Sidewalk, Integral Color Conc, Type 2 (Green), 4 inch, Modified
1584	Sft	Sidewalk, Integral Color Conc, Type 3 (Limestone), 4 inch, Modified
1197	Sft	Sidewalk, Conc, 6 inch, Modified
4725	Sft	Conc Pavt, Misc, 9 inch, Reinf, Modified
354	Sft	Conc, Base Pavt, 9 inch, Modified
636	Sft	Chemically Stained Colored Concrete, Type 4, (Antique Amber)
621	Sft	Chemically Stained Colored Concrete, Type 5, (Dark Walnut)
0	Cyd	Aggregate Surface Cse
8	Ton	Hand Patching
817	Ft	Integral Curb and Sidewalk, 2 Foot, Modified
0	Ft	Curb, Conc, Separate, 6 inch, Modified
0	Sft	Curb, Conc, Island
163	Cyd	Granular Material, C1 II
274	Ton	Aggregate Base
855	Sft	Sidewalk Ramp, ADA, Modified
57	Ft	Detectable Warning Surface Tile, Modified
2	Ea	Bench, Type M
2	Ea	Trash Receptacle, Type M
0	Ea	Bike Rack, Type M
1	Ea	Dog Litter Receptacle, Type M
0	Ea	Drinking Fountain
0	Ea	Wayfinding Column, Foundation

**MIDTOWN LOOP KEY NOTES AND LEGEND**

PAVING AND MATERIALS KEY NOTES AND LEGEND							
	CONSTRUCTION LIMIT LINE	1		INTEGRAL CURB AND SIDEWALK, 2 FOOT, MODIFIED	14		FIXTURE TYPE M2, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)
	RIGHT - OF - WAY LINE	2		CURB, CONC. SEPARATE, 6 INCH, MODIFIED	15		STREET LIGHT, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)
	MATCH LINE	3		SIDEWALK RAMP, ADA, MODIFIED (R-28-H)	16		HYDRANT, RELOCATE (REFER TO UTILITY PLANS)
	HORIZONTAL ALIGNMENT	4		DETECTABLE WARNING SURFACE TILE, MODIFIED (R-28-H)	17		CATCH BASIN "A" OR "B" - WITH TRAP (REFER TO UTILITY PLANS)
	ADJACENT PROJECT	5		BENCH, TYPE M	18		CURB INCIDENTAL TO SIDEWALK RAMP, ADA MODIFIED
	SIDEWALK, CONC, _INCH, MODIFIED (NO COLOR)	12		BIKE RACKS	19		DRIVE OR ALLEY APPROACH, TYPE M
	SIDEWALK, INTEGRAL COLOR CONC, TYPE 2 (GREEN), _INCH, MODIFIED	7		DOG LITTER RECEPTACLE, TYPE M	20		COORDINATE CONSTRUCTION ACTIVITIES WITH ADJACENT PROJECT UNDER CONSTRUCTION BY DMC. CONSTRUCTION BY DMC. SIDEWALK RAMPS OUTSIDE OF PROJECT CONSTRUCTION LIMITS TO BE REPLACED BY DMC.
	SIDEWALK, INTEGRAL COLOR CONC, TYPE 3 (LIMESTONE), _INCH, MODIFIED	8		DRINKING FOUNTAIN	21		NO WORK ON BRIDG EXCEPT FOR PAVEMENT MARKINGS
	CHEMICALLY STAINED COLORED CONCRETE, TYPE 4 (ANTIQU AMBER)	9		TRASH RECEPTACLE, TYPE M	22		AREA TO BE GRADED TO ADA LANDING REQUIREMENTS. REFER TO JOINTING PLANS FOR JOINT LOCATIONS.
	CHEMICALLY STAINED COLORED CONCRETE, TYPE 5 (DARK WALNUT)	10		WAYFINDING COLUMN, FOUNDATION			
	HAND PATCHING AND _CONC, PAVT, MISC, 9 INCH, REINF, MODIFIED	11		FIXTURE TYPE M1 (REFER TO ELECTRICAL PLANS)			
	_CONC, PAVT, MISC, 9 INCH, REINF, MODIFIED	12		FIXTURE TYPE M2, PLD (REFER TO ELECTRICAL PLANS)			
	AGGREGATE SURFACE CSE	13		FIXTURE TYPE M3 (REFER TO ELECTRICAL PLANS)			

NOTE:  
1. REFER TO DRAWING G0.5 FOR PAVING AND MATERIALS NOTES.

**Midtown Loop Phase IV**

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



Midtown Detroit, Inc.

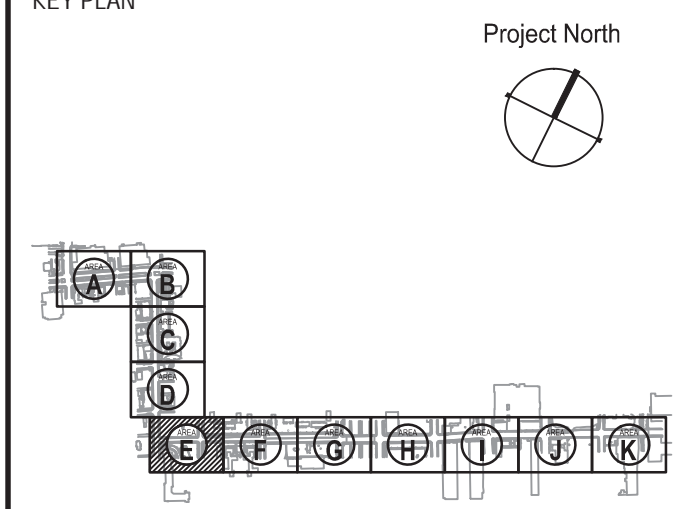
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80% CONSTRUCTION DOCUMENTS	1	JAN 07, 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05, 2012

SEALS AND SIGNATURES

KEY PLAN



**PAVING AND MATERIALS PLAN - AREA E**

GRAPHIC SCALE TAKES PRECEDENCE  
FULL SIZE SCALE (24x36)  
1" = 20'-0"  
24708.003

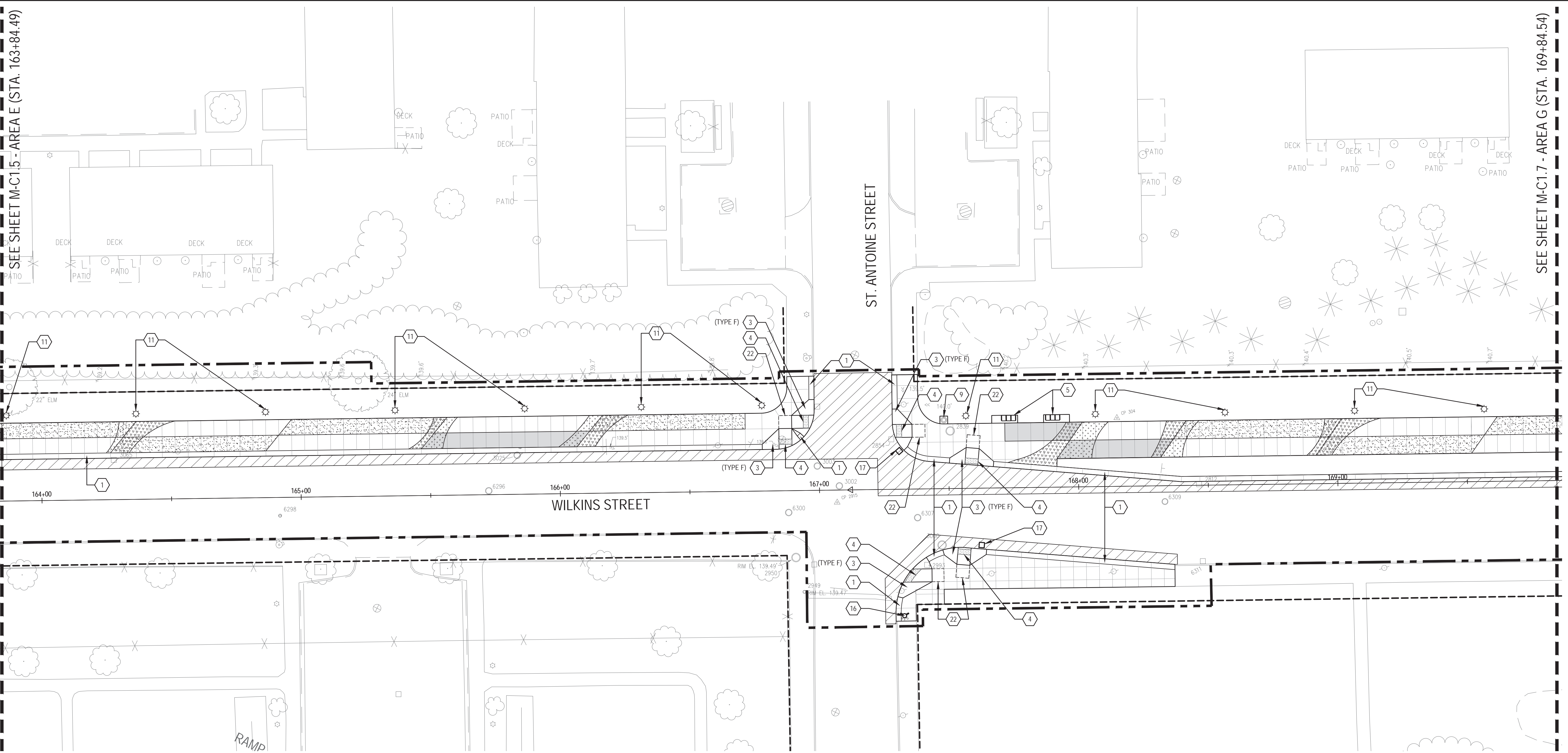
PROJECT NUMBER  
**M-C1.5**  
DRAWING NUMBER  
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SEE SHEET M-C1.5 - AREA E (STA. 163+84.49)

SEE SHEET M-C1.7 - AREA G (STA. 169+84.54)



# Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



Midtown Detroit, Inc.

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50% CONSTRUCTION DOCUMENTS	0	NOV 05 2012

SEALS AND SIGNATURES

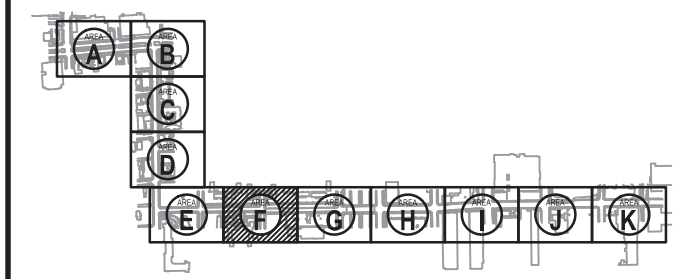
### M-C1.6 - PAVING AND MATERIALS

QTY	UNIT	ITEM DESCRIPTION
3922	Sft	Sidewalk, Conc, 4 inch, Modified
833	Sft	Sidewalk, Integral Color Conc, Type 2 (Green), 4 inch, Modified
2380	Sft	Sidewalk, Integral Color Conc, Type 3 (Limestone), 4 inch, Modified
1355	Sft	Sidewalk, Conc, 6 inch, Modified
0	Sft	Conc Pavt, Misc, 9 inch, Reinf, Modified
3800	Sft	Conc, Base Pavt, 9 inch, Modified
394	Sft	Chemically Stained Colored Concrete, Type 4, (Antique Amber)
623	Sft	Chemically Stained Colored Concrete, Type 5, (Dark Walnut)
0	Cyd	Aggregate Surface Cse
77	Ton	Hand Patching
650	Ft	Integral Curb and Sidewalk, 2 Foot, Modified
0	Ft	Curb, Conc, Separate, 6 inch, Modified
0	Sft	Curb, Conc, Island
167	Cyd	Granular Material, CI II
171	Ton	Aggregate Base
519	Sft	Sidewalk Ramp, ADA, Modified
31	Ft	Detectable Warning Surface Tile, Modified
2	Ea	Bench, Type M
1	Ea	Trash Receptacle, Type M
0	Ea	Bike Rack, Type M
0	Ea	Dog Litter Receptacle, Type M
0	Ea	Drinking Fountain
0	Ea	Wayfinding Column, Foundation

NOTE:  
1. REFER TO DRAWING G05 FOR PAVING AND MATERIALS NOTES.

### MIDTOWN LOOP KEY NOTES AND LEGEND

PAVING AND MATERIALS KEY NOTES AND LEGEND							
	CONSTRUCTION LIMIT LINE	1		INTEGRAL CURB AND SIDEWALK, 2 FOOT, MODIFIED	1 M-C5.2 14	#	_FIXTURE TYPE M2, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)
	RIGHT - OF - WAY LINE	2		_CURB, CONC, SEPARATE, 6 INCH, MODIFIED	2 M-C5.2 15	o	_STREET LIGHT, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)
	MATCH LINE	3		_SIDEWALK RAMP, ADA, MODIFIED (R-28-H)	16	h	_HYDRANT, RELOCATE (REFER TO UTILITY PLANS)
	HORIZONTAL ALIGNMENT	4		_DETECTABLE WARNING SURFACE TILE, MODIFIED (R-28-H)	17	□	_CATCH BASIN "A" OR "B" - WITH TRAP (REFER TO UTILITY PLANS)
	ADJACENT PROJECT	5		_BENCH, TYPE M	1 M-C5.4 18		CURB INCIDENTAL TO _SIDEWALK RAMP, ADA MODIFIED
	_SIDEWALK, CONC, _INCH, MODIFIED (NO COLOR)	1,2 M-C5.1 6		_BIKE RACK, TYPE M	2 M-C5.5 19		DRIVE OR ALLEY APPROACH, TYPE M
	_SIDEWALK, INTEGRAL COLOR CONC, TYPE 2 (GREEN), _INCH, MODIFIED	7		_DOG LITTER RECEPTACLE, TYPE M	3 M-C5.5 20		COORDINATE CONSTRUCTION ACTIVITIES WITH ADJACENT PROJECT UNDER CONSTRUCTION BY DMC. CONSTRUCTION BY DMC. SIDEWALK RAMP OUTSIDE OF PROJECT CONSTRUCTION LIMITS TO BE REPLACED BY DMC.
	_SIDEWALK, INTEGRAL COLOR CONC, TYPE 3 (LIMESTONE), _INCH, MODIFIED	8		_DRINKING FOUNTAIN	4 M-C5.5 21		
	_CHEMICALLY STAINED COLORED CONCRETE, TYPE 4 (ANTIQUe AMBER)	9		_TRASH RECEPTACLE, TYPE M	3 M-C5.4 22		NO WORK ON BRIDG EXCEPT FOR PAVEMENT MARKINGS
	_CHEMICALLY STAINED COLORED CONCRETE, TYPE 5 (DARK WALNUT)	10		_WAYFINDING COLUMN, FOUNDATION	1 M-C5.5 22		AREA TO BE GRADED TO ADA LANDING REQUIREMENTS. REFER TO JOINTING PLANS FOR JOINT LOCATIONS.
	HAND PATCHING AND _CONC, PAVT, MISC, 9 INCH, REINF, MODIFIED	11		_FIXTURE TYPE M1 (REFER TO ELECTRICAL PLANS)			
	_CONC, PAVT, MISC, 9 INCH, REINF, MODIFIED	3 M-C5.1 12		_FIXTURE TYPE M2, PLD (REFER TO ELECTRICAL PLANS)			
	AGGREGATE SURFACE CSE	13		_FIXTURE TYPE M3 (REFER TO ELECTRICAL PLANS)			



### PAVING AND MATERIALS PLAN - AREA F

GRAPHIC SCALE TAKES PRECEDENCE FULL SIZE SCALE (24x36) 1"=20'-0" 24708.003

PROJECT NUMBER M-C1.6 DRAWING NUMBER 248 of 497

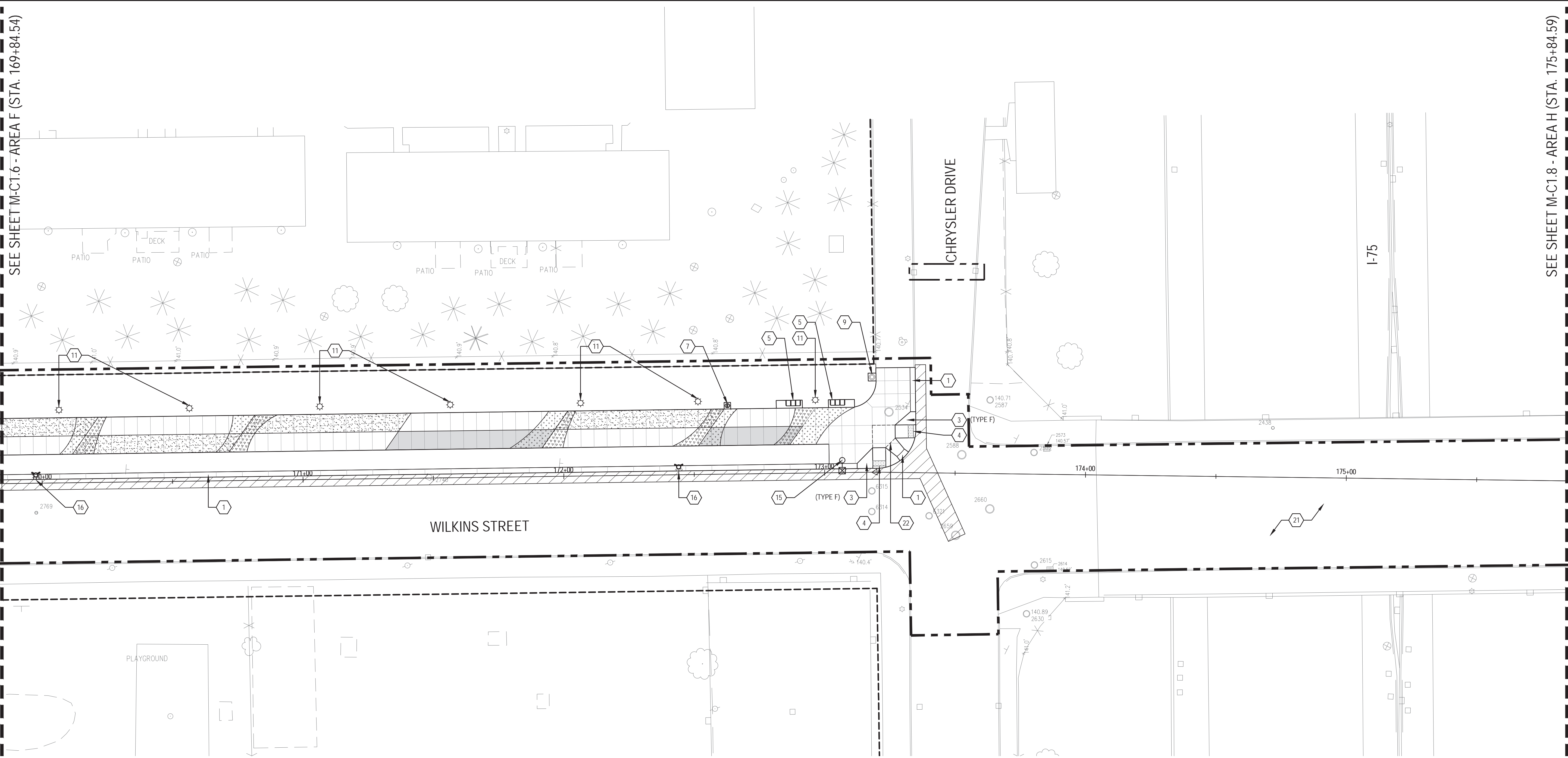


FILE: P:\24708\003\Phase-IV\CAD\Sheet\24708-004-MATR-SHI.dwg USER: jyoung DATE: May 21 2013 TIME: 04:51 pm



SEE SHEET M-C1.6 - AREA F (STA. 169+84.54)

SEE SHEET M-C1.8 - AREA H (STA. 175+84.59)



# Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



Midtown Detroit, Inc.

## SMITHGROUP JJR

201 DEPOT STREET  
SECOND FLOOR  
ANN ARBOR, MI 48104  
734.662.4457  
www.smithgroupjjr.com

ISSUED FOR	REV	DATE
BIDDING DOCUMENTS	5	MAY 21.2013
BIDDING DOCUMENTS	4	MAY 02.2013
100% CONSTRUCTION DOCUMENTS	3	APR 01.2013
GRADE INSPECTION	2	JAN 30.2013
80% CONSTRUCTION DOCUMENTS	1	JAN 07.2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05.2012

SEALS AND SIGNATURES

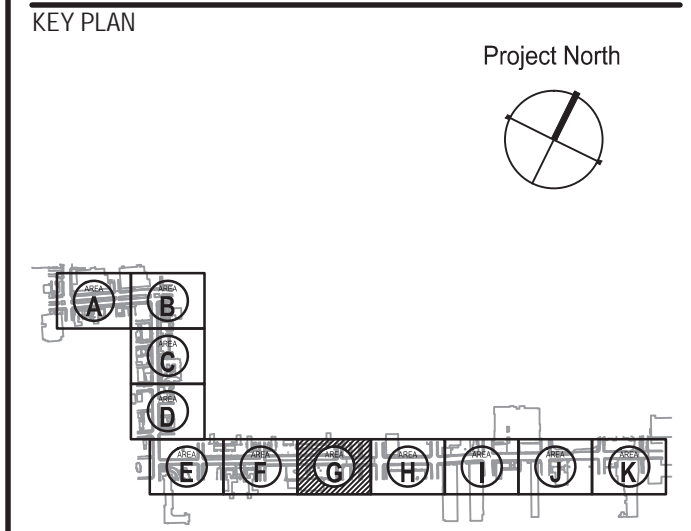
### M-C1.7 - PAVING AND MATERIALS

QTY	UNIT	ITEM DESCRIPTION
2272	Sft	_Sidewalk, Conc, 4 inch, Modified
665	Sft	_Sidewalk, Integral Color Conc, Type 2 (Green), 4 inch, Modified
1501	Sft	_Sidewalk, Integral Color Conc, Type 3 (Limestone), 4 inch, Modified
807	Sft	_Sidewalk, Conc, 6 inch, Modified
0	SR	_Conc Pavt, Misc, 9 inch, Reinf, Modified
1405	Sft	_Conc, Base Pavt, 9 inch, Modified
505	Sft	_Chemically Stained Colored Concrete, Type 4, (Antique Amber)
387	Sft	_Chemically Stained Colored Concrete, Type 5, (Dark Walnut)
0	Cyd	Aggregate Surface Cse
30	Ton	Hand Patching
350	Ft	_Integral Curb and Sidewalk, 2 Foot, Modified
0	Ft	_Curb, Conc, Separate, 6 inch, Modified
0	SR	_Curb, Conc, Island
100	Cyd	Granular Material, C II
77	Ton	Aggregate Base
178	Sft	_Sidewalk Ramp, ADA, Modified
10	Ft	_Detectable Warning Surface Tile, Modified
2	Ea	_Bench, Type M
1	Ea	_Trash Receptacle, Type M
0	Ea	_Bike Rack, Type M
1	Ea	_Dog Litter Receptacle, Type M
0	Ea	_Drinking Fountain
0	Ea	_Wayfinding Column, Foundation

NOTE:  
1. REFER TO DRAWING G0.5 FOR PAVING AND MATERIALS NOTES.

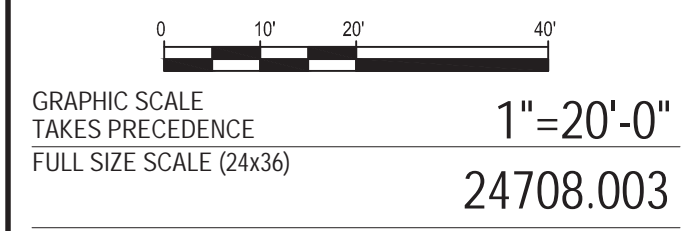
### MIDTOWN LOOP KEY NOTES AND LEGEND

PAVING AND MATERIALS KEY NOTES AND LEGEND							
	CONSTRUCTION LIMIT LINE	1		_INTEGRAL CURB AND SIDEWALK, 2 FOOT, MODIFIED	14	#	_FIXTURE TYPE M2, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)
	RIGHT - OF - WAY LINE	2		_CURB, CONC, SEPARATE, 6 INCH, MODIFIED	15	○	_STREET LIGHT, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)
	MATCH LINE	3		_SIDEWALK RAMP, ADA, MODIFIED (R-28-H)	16	⚡	_HYDRANT, RELOCATE (REFER TO UTILITY PLANS)
	HORIZONTAL ALIGNMENT	4		_DETECTABLE WARNING SURFACE TILE, MODIFIED (R-28-H)	17	□	_CATCH BASIN "A" OR "B" - WITH TRAP (REFER TO UTILITY PLANS)
	ADJACENT PROJECT	5		_BENCH, TYPE M	18		CURB INCIDENTAL TO _SIDEWALK RAMP, ADA MODIFIED
	_SIDEWALK, CONC, _INCH, MODIFIED (NO COLOR)	1.2		_BIKE RACKS	19		DRIVE OR ALLEY APPROACH, TYPE M
	_SIDEWALK, INTEGRAL COLOR CONC, TYPE 2 (GREEN), _INCH, MODIFIED	7		_DOG LITTER RECEPTACLE, TYPE M	20		COORDINATE CONSTRUCTION ACTIVITIES WITH ADJACENT PROJECT UNDER CONSTRUCTION BY DMC. CONSTRUCTION BY DMC. SIDEWALK RAMPS OUTSIDE OF PROJECT CONSTRUCTION LIMITS TO BE REPLACED BY DMC.
	_SIDEWALK, INTEGRAL COLOR CONC, TYPE 3 (LIMESTONE), _INCH, MODIFIED	8		_DRINKING FOUNTAIN	21		NO WORK ON BRIDG EXCEPT FOR PAVEMENT MARKINGS
	_CHEMICALLY STAINED COLORED CONCRETE, TYPE 4 (ANTIQUÉ AMBER)	9		_WAYFINDING COLUMN, FOUNDATION	22		AREA TO BE GRADED TO ADA LANDING REQUIREMENTS. REFER TO JOINTING PLANS FOR JOINT LOCATIONS.
	_CHEMICALLY STAINED COLORED CONCRETE, TYPE 5 (DARK WALNUT)	10		_FIXTURE TYPE M1 (REFER TO ELECTRICAL PLANS)			
	HAND PATCHING AND _CONC, PAVT, MISC, 9 INCH, REINF, MODIFIED	11		_FIXTURE TYPE M2, PLD (REFER TO ELECTRICAL PLANS)			
	_CONC, PAVT, MISC, 9 INCH, REINF, MODIFIED	12		_FIXTURE TYPE M3 (REFER TO ELECTRICAL PLANS)			
	AGGREGATE SURFACE CSE	13					



### DRAWING TITLE

## PAVING AND MATERIALS PLAN - AREA G



PROJECT NUMBER  
**M-C1.7**

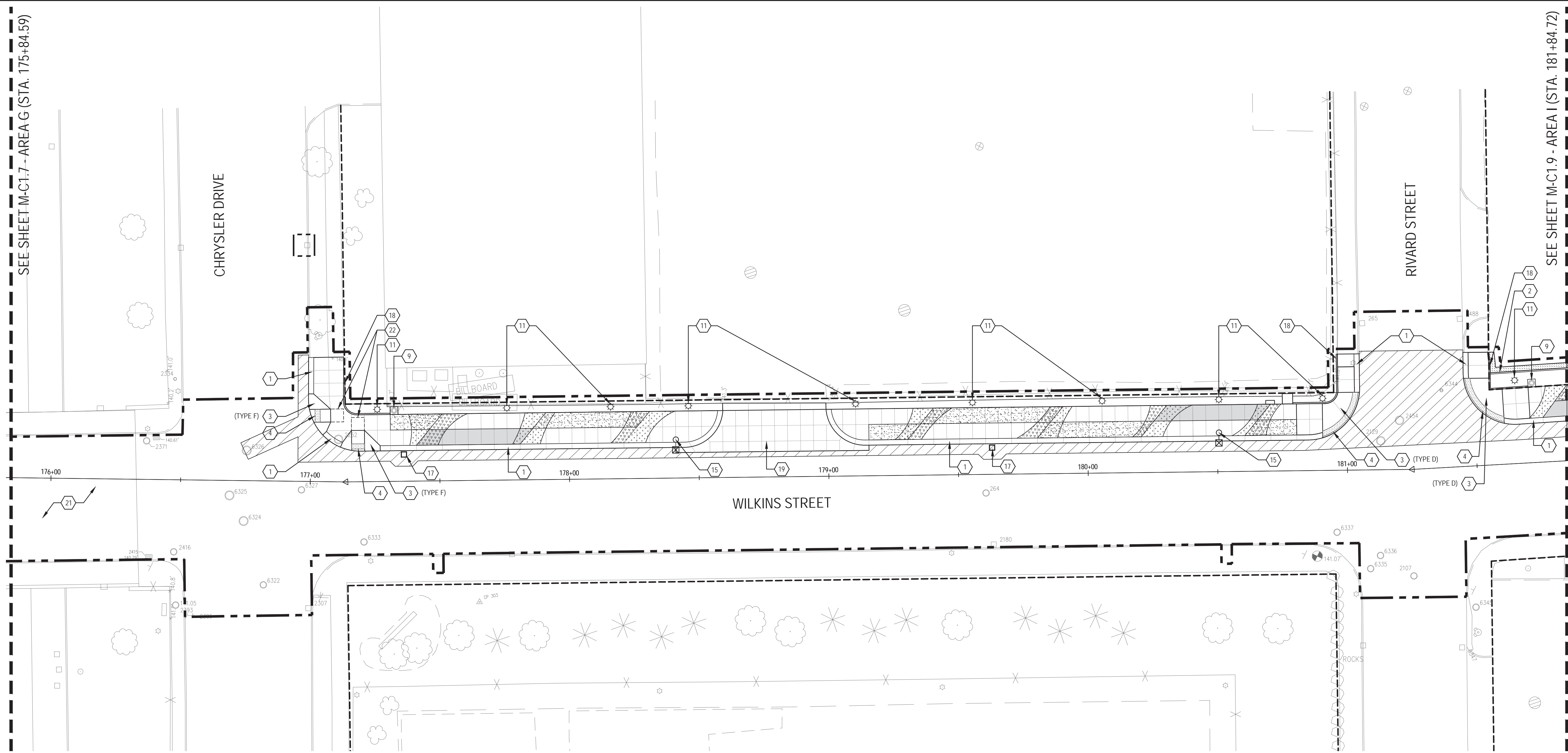
DRAWING NUMBER  
249 of 497



FILE: P:\24708\003\Phase-IV\CAD\Sheet\24708-004-MATR-SHI.dwg USER: jyoung DATE: May 21 2013 TIME: 04:52 pm

SEE SHEET M-C1.7 - AREA G (STA. 175+84.59)

SEE SHEET M-C1.9 - AREA I (STA. 181+84.72)



# Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



Midtown Detroit, Inc.

## SMITHGROUP JJR

201 DEPOT STREET  
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ISSUED FOR	REV	DATE
BIDDING DOCUMENTS	5	MAY 21, 2013
BIDDING DOCUMENTS	4	MAY 02, 2013
100% CONSTRUCTION DOCUMENTS	3	APR 01, 2013
GRADE INSPECTION	2	JAN 30, 2013
80% CONSTRUCTION DOCUMENTS	1	JAN 07, 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05, 2012

SEALS AND SIGNATURES

### M-C1.8 - PAVING AND MATERIALS

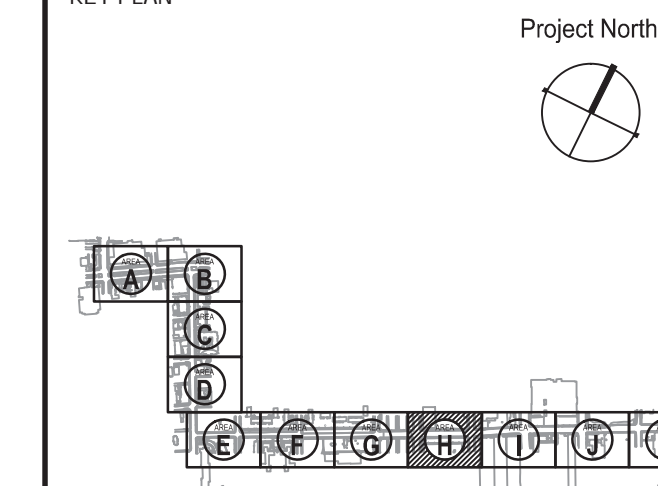
QTY	UNIT	ITEM DESCRIPTION
1845	Sft	Sidewalk, Conc, 4 inch, Modified
522	Sft	Sidewalk, Integral Color Conc, Type 2 (Green), 4 inch, Modified
1109	Sft	Sidewalk, Integral Color Conc, Type 3 (Limestone), 4 inch, Modified
510	Sft	Sidewalk, Conc, 6 inch, Modified
1205	Sft	Conc Pavt, Misc, 9 inch, Reinf, Modified
3167	Sft	Conc, Base Pavt, 9 inch, Modified
632	Sft	Chemically Stained Colored Concrete, Type 4, (Antique Amber)
629	Sft	Chemically Stained Colored Concrete, Type 5, (Dark Walnut)
1	Cyd	Aggregate Surface Cse
64	Ton	Hand Patching
410	Ft	Integral Curb and Sidewalk, 2 Foot, Modified
30	Ft	Curb, Conc, Separate, 6 inch, Modified
0	Sft	Curb, Conc, Island
90	Cyd	Granular Material, C1 II
166	Ton	Aggregate Base
878	Sft	Sidewalk Ramp, ADA, Modified
57	Ft	Detectable Warning Surface Tile, Modified
0	Ea	Bench, Type M
2	Ea	Trash Receptacle, Type M
0	Ea	Bike Rack, Type M
0	Ea	Dog Litter Receptacle, Type M
0	Ea	Drinking Fountain
0	Ea	Wayfinding Column, Foundation

NOTE:  
1. REFER TO DRAWING G0.5 FOR PAVING AND MATERIALS NOTES.

### MIDTOWN LOOP KEY NOTES AND LEGEND

PAVING AND MATERIALS KEY NOTES AND LEGEND								
	CONSTRUCTION LIMIT LINE	1		INTEGRAL CURB AND SIDEWALK, 2 FOOT, MODIFIED	1 M-C1.7	14	#	_FIXTURE TYPE M2, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)
	RIGHT - OF - WAY LINE	2		_CURB, CONC, SEPARATE, 6 INCH, MODIFIED	2 M-C1.7	15	○	_STREET LIGHT, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)
	MATCH LINE	3		_SIDEWALK RAMP, ADA, MODIFIED (R-28-H)		16	⚡	_HYDRANT, RELOCATE (REFER TO UTILITY PLANS)
	HORIZONTAL ALIGNMENT	4		_DETECTABLE WARNING SURFACE TILE, MODIFIED (R-28-H)		17	□	_CATCH BASIN "A" OR "B" - WITH TRAP (REFER TO UTILITY PLANS)
	ADJACENT PROJECT	5		_BENCH, TYPE M	1 M-C1.4	18		CURB INCIDENTAL TO _SIDEWALK RAMP, ADA MODIFIED
	_SIDEWALK, CONC, 4 INCH, MODIFIED (NO COLOR)	1.2 M-C1.1	6	BIKE RACKS	2 M-C1.5	19		DRIVE OR ALLEY APPROACH, TYPE M
	_SIDEWALK, INTEGRAL COLOR CONC, TYPE 2 (GREEN), 4 INCH, MODIFIED		7		3 M-C1.5			COORDINATE CONSTRUCTION ACTIVITIES WITH ADJACENT PROJECT UNDER CONSTRUCTION BY DMC. SIDEWALK RAMP OUTSIDE OF PROJECT CONSTRUCTION LIMITS TO BE REPLACED BY DMC.
	_SIDEWALK, INTEGRAL COLOR CONC, TYPE 3 (LIMESTONE), 4 INCH, MODIFIED		8		4 M-C1.5	20		
	_CHEMICALLY STAINED COLORED CONCRETE, TYPE 4 (ANTIQUÉ AMBER)		9		3 M-C1.4	21		NO WORK ON BRIDG EXCEPT FOR PAVEMENT MARKINGS
	_CHEMICALLY STAINED COLORED CONCRETE, TYPE 5 (DARK WALNUT)		10		1 M-C1.5	22		AREA TO BE GRADED TO ADA LANDING REQUIREMENTS. REFER TO JOINTING PLANS FOR JOINT LOCATIONS.
	HAND PATCHING AND _CONC, PAVT, MISC, 9 INCH, REINF, MODIFIED		11					
	_CONC, PAVT, MISC, 9 INCH, REINF, MODIFIED	3 M-C1.1	12					_FIXTURE TYPE M2, PLD (REFER TO ELECTRICAL PLANS)
	AGGREGATE SURFACE CSE		13					_FIXTURE TYPE M3 (REFER TO ELECTRICAL PLANS)

KEY PLAN



### DRAWING TITLE

## PAVING AND MATERIALS PLAN - AREA H

GRAPHIC SCALE TAKES PRECEDENCE FULL SIZE SCALE (24x36) 1"=20'-0" 24708.003

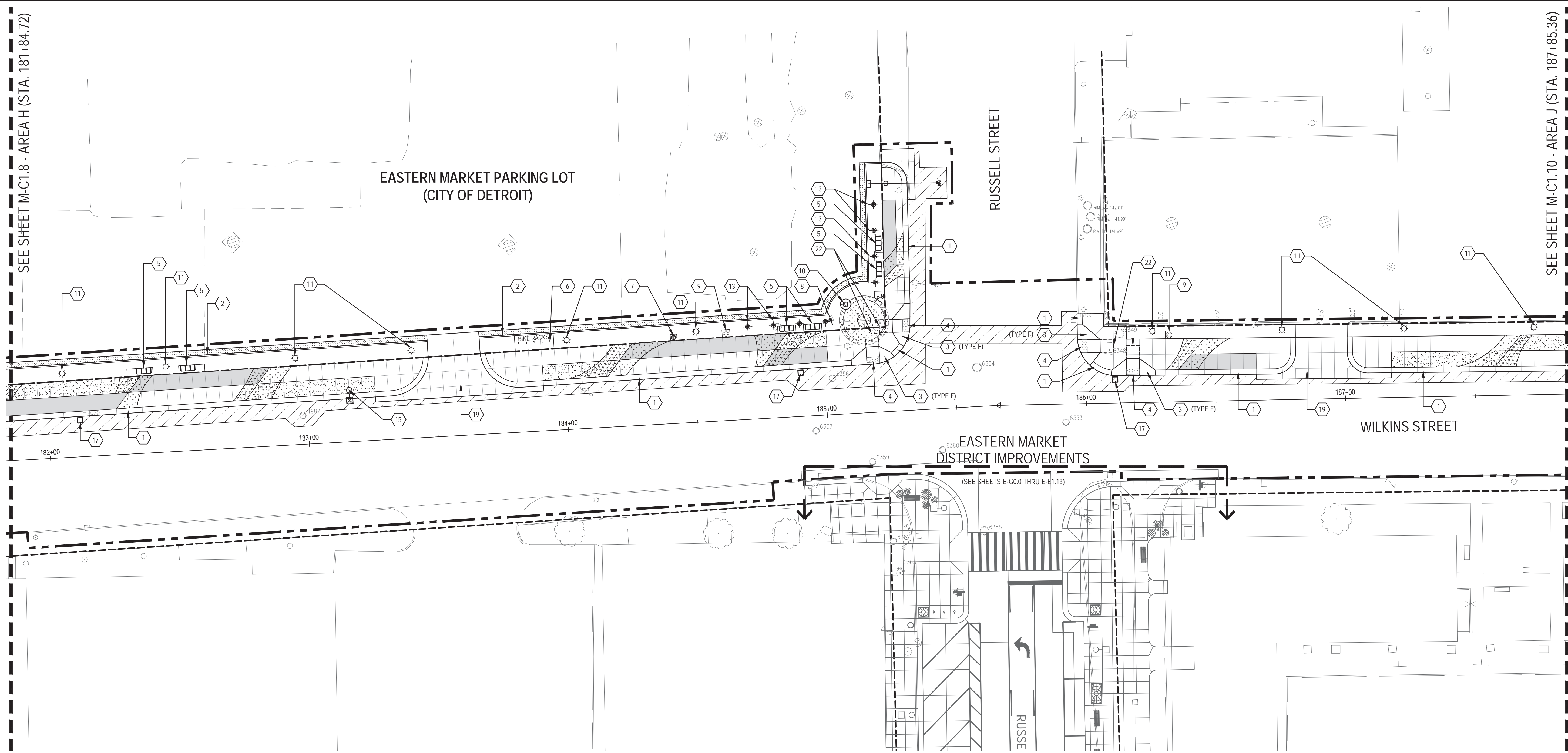
PROJECT NUMBER M-C1.8 DRAWING NUMBER 250 of 497



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SEE SHEET M-C1.8 - AREA H (STA. 181+84.72)

SEE SHEET M-C1.10 - AREA J (STA. 187+85.36)



# Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



Owners:  
 City of Detroit



Midtown Detroit, Inc.

## SMITHGROUP JJR

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SECOND FLOOR  
ANN ARBOR, MI 48104  
734.662.4457  
www.smithgroupjjr.com

ISSUED FOR	REV	DATE
BIDDING DOCUMENTS	5	MAY 21, 2013
BIDDING DOCUMENTS	4	MAY 02, 2013
100% CONSTRUCTION DOCUMENTS	3	APR 01, 2013
GRADE INSPECTION	2	JAN 30, 2013
80% CONSTRUCTION DOCUMENTS	1	JAN 07, 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05, 2012

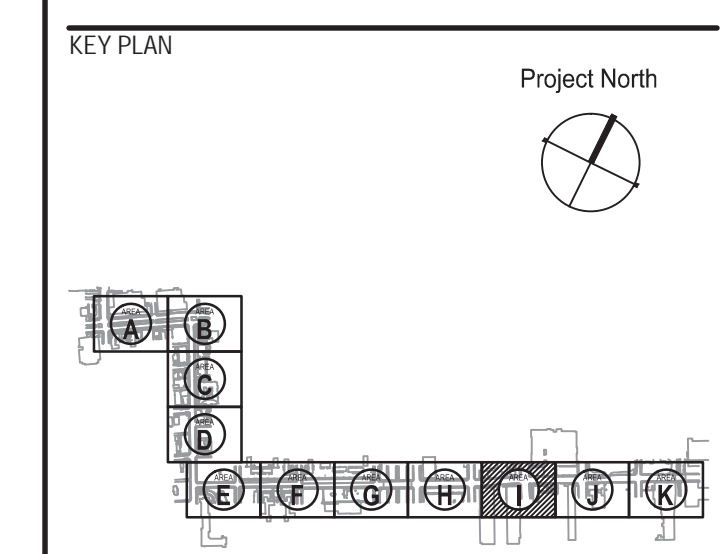
SEALS AND SIGNATURES

QTY	UNIT	ITEM DESCRIPTION
1932	Sft	_Sidewalk, Conc, 4 inch, Modified
1356	Sft	_Sidewalk, Integral Color Conc, Type 2 (Green), 4 inch, Modified
1218	Sft	_Sidewalk, Integral Color Conc, Type 3 (Limestone), 4 inch, Modified
1169	Sft	_Sidewalk, Conc, 6 inch, Modified
2140	Sft	_Conc Pavt, Misc, 9 inch, Reinf, Modified
2889	Sft	_Conc, Base Pavt, 9 inch, Modified
780	Sft	_Chemically Stained Colored Concrete, Type 4, (Antique Amber)
637	Sft	_Chemically Stained Colored Concrete, Type 5, (Dark Walnut)
13	Cyd	Aggregate Surface Cse
60	Ton	Hand Patching
570	Ft	_Integral Curb and Sidewalk, 2 Foot, Modified
370	Ft	_Curb, Conc, Separate, 6 inch, Modified
0	Sft	_Curb, Conc, Island
111	Cyd	Granular Material, C1 II
220	Ton	Aggregate Base
340	Sft	_Sidewalk Ramp, ADA, Modified
20	Ft	_Detectable Warning Surface Tile, Modified
6	Ea	_Bench, Type M
2	Ea	_Trash Receptacle, Type M
10	Ea	_Bike Rack, Type M
1	Ea	_Dog Litter Receptacle, Type M
1	Ea	_Drinking Fountain
1	Ea	_Wayfinding Column, Foundation

NOTE:  
1. REFER TO DRAWING G0.5 FOR PAVING AND MATERIALS NOTES.

### MIDTOWN LOOP KEY NOTES AND LEGEND

PAVING AND MATERIALS KEY NOTES AND LEGEND							
	CONSTRUCTION LIMIT LINE	1		_INTEGRAL CURB AND SIDEWALK, 2 FOOT, MODIFIED	14	#	_FIXTURE TYPE M2, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)
	RIGHT-OF-WAY LINE	2		_CURB, CONC, SEPARATE, 6 INCH, MODIFIED	15	⊗	_STREET LIGHT, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)
	MATCH LINE	3		_SIDEWALK RAMP, ADA, MODIFIED (R-28-H)	16	⊗	_HYDRANT, RELOCATE (REFER TO UTILITY PLANS)
	HORIZONTAL ALIGNMENT	4		_DETECTABLE WARNING SURFACE TILE, MODIFIED (R-28-H)	17	□	_CATCH BASIN "A" OR "B" - WITH TRAP (REFER TO UTILITY PLANS)
	ADJACENT PROJECT	5		_BENCH, TYPE M	18	⊗	CURB INCIDENTAL TO _SIDEWALK RAMP, ADA MODIFIED
	_SIDEWALK, CONC, _INCH, MODIFIED (NO COLOR)	12		_BIKE RACK, TYPE M	19	⊗	DRIVE OR ALLEY APPROACH, TYPE M
	_SIDEWALK, INTEGRAL COLOR CONC, TYPE 2 (GREEN), _INCH, MODIFIED	7		_DOG LITTER RECEPTACLE, TYPE M	20		COORDINATE CONSTRUCTION ACTIVITIES WITH ADJACENT PROJECT UNDER CONSTRUCTION BY DMC. CONSTRUCTION BY DMC. SIDEWALK RAMPS OUTSIDE OF PROJECT CONSTRUCTION LIMITS TO BE REPLACED BY DMC.
	_SIDEWALK, INTEGRAL COLOR CONC, TYPE 3 (LIMESTONE), _INCH, MODIFIED	8		_DRINKING FOUNTAIN	21		
	_CHEMICALLY STAINED COLORED CONCRETE, TYPE 4 (ANTIQUÉ AMBER)	9		_TRASH RECEPTACLE, TYPE M	22		NO WORK ON BRIDG EXCEPT FOR PAVEMENT MARKINGS
	_CHEMICALLY STAINED COLORED CONCRETE, TYPE 5 (DARK WALNUT)	10		_WAYFINDING COLUMN, FOUNDATION			AREA TO BE GRADED TO ADA LANDING REQUIREMENTS. REFER TO JOINTING PLANS FOR JOINT LOCATIONS.
	HAND PATCHING AND _CONC, PAVT, MISC, 9 INCH, REINF, MODIFIED	11		_FIXTURE TYPE M1 (REFER TO ELECTRICAL PLANS)			
	_CONC, PAVT, MISC, 9 INCH, REINF, MODIFIED	12		_FIXTURE TYPE M2, PLD (REFER TO ELECTRICAL PLANS)			
	AGGREGATE SURFACE CSE	13		_FIXTURE TYPE M3 (REFER TO ELECTRICAL PLANS)			



### DRAWING TITLE

## PAVING AND MATERIALS PLAN - AREA I

GRAPHIC SCALE TAKES PRECEDENCE  
FULL SIZE SCALE (24x36)  
1"=20'-0"  
24708.003

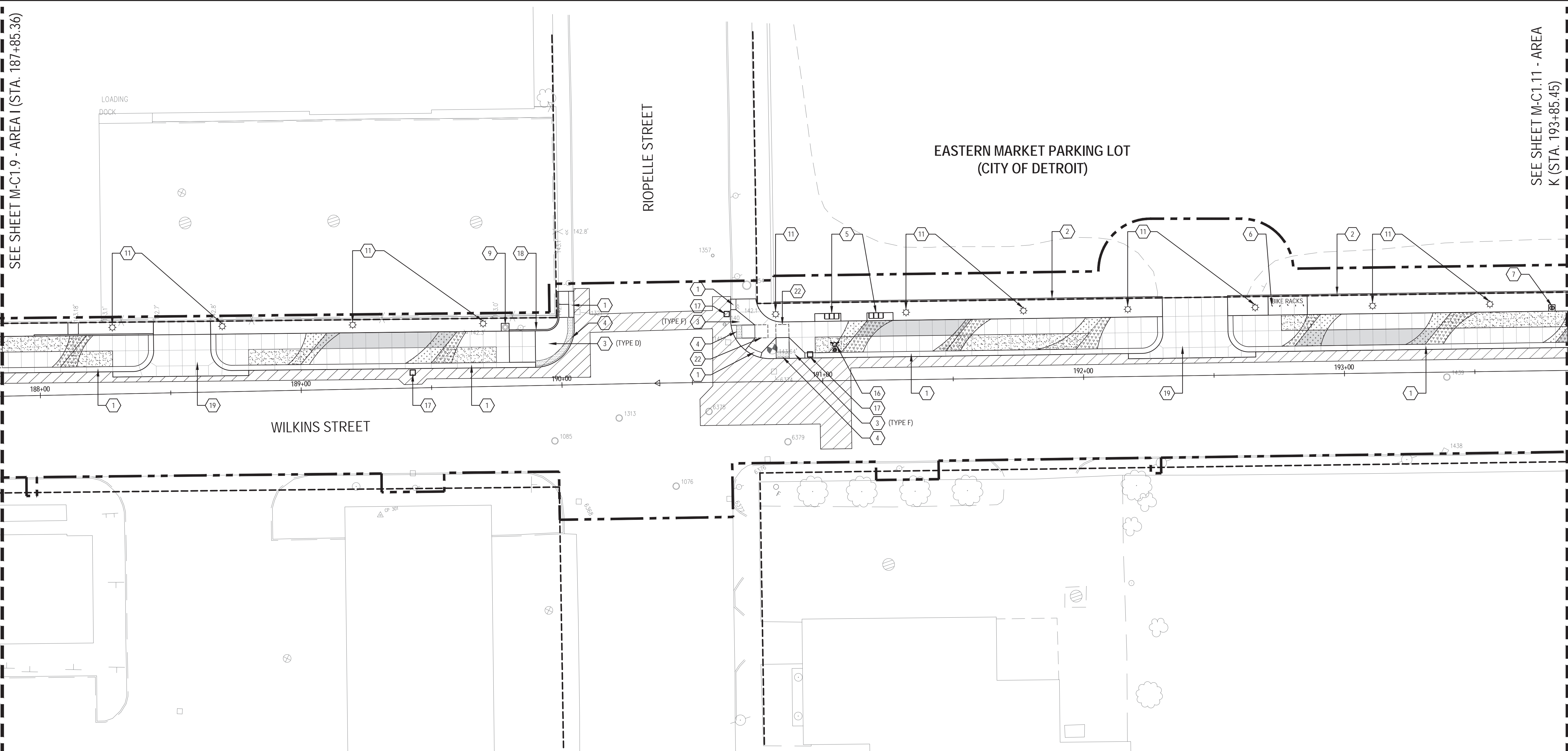
PROJECT NUMBER  
**M-C1.9**  
DRAWING NUMBER  
251 of 497



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SEE SHEET M-C1.9 - AREA I (STA. 187+85.36)

SEE SHEET M-C1.11 - AREA K (STA. 193+85.45)



# Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



Owners:  
City of Detroit



Midtown Detroit, Inc.

## SMITHGROUP JJR

201 DEPOT STREET  
SECOND FLOOR  
ANN ARBOR, MI 48104  
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www.smithgroupjjr.com

ISSUED FOR	REV	DATE
BIDDING DOCUMENTS	5	MAY 21, 2013
BIDDING DOCUMENTS	4	MAY 02, 2013
100% CONSTRUCTION DOCUMENTS	3	APR 01, 2013
GRADE INSPECTION	2	JAN 30, 2013
80% CONSTRUCTION DOCUMENTS	1	JAN 07, 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05, 2012

SEALS AND SIGNATURES

### M-C1.10 - PAVING AND MATERIALS

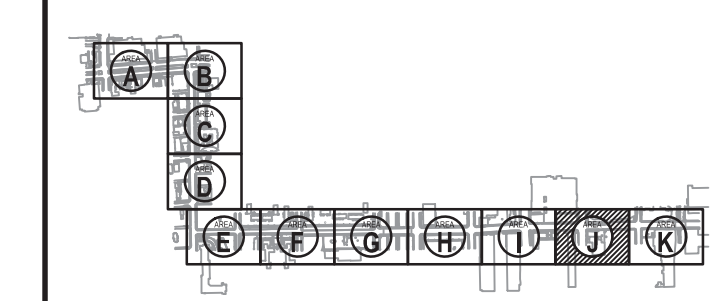
QTY	UNIT	ITEM DESCRIPTION
2384	Sft	Sidewalk, Conc, 4 inch, Modified
852	Sft	Sidewalk, Integral Color Conc, Type 2 (Green), 4 inch, Modified
1286	Sft	Sidewalk, Integral Color Conc, Type 3 (Limestone), 4 inch, Modified
463	Sft	Sidewalk, Conc, 6 inch, Modified
1732	Sft	Conc Pavt, Misc, 9 inch, Reinf, Modified
3338	Sft	Conc, Base Pavt, 9 inch, Modified
546	Sft	Chemically Stained Colored Concrete, Type 4, (Antique Amber)
565	Sft	Chemically Stained Colored Concrete, Type 5, (Dark Walnut)
0	Cyd	Aggregate Surface Cse
68	Ton	Hand Patching
523	Ft	Integral Curb and Sidewalk, 2 Foot, Modified
325	Ft	Curb, Conc, Separate, 6 inch, Modified
0	Sft	Curb, Conc, Island
102	Cyd	Granular Material, CI II
209	Ton	Aggregate Base
528	Sft	Sidewalk Ramp, ADA, Modified
47	Ft	Detectable Warning Surface Tile, Modified
2	Ea	Bench, Type M
1	Ea	Trash Receptacle, Type M
10	Ea	Bike Rack, Type M
1	Ea	Dog Litter Receptacle, Type M
0	Ea	Drinking Fountain
0	Ea	Wayfinding Column, Foundation

NOTE:  
1. REFER TO DRAWING G0.5 FOR PAVING AND MATERIALS NOTES.

### MIDTOWN LOOP KEY NOTES AND LEGEND

PAVING AND MATERIALS KEY NOTES AND LEGEND					
	CONSTRUCTION LIMIT LINE	1		INTEGRAL CURB AND SIDEWALK, 2 FOOT, MODIFIED	14
	RIGHT - OF - WAY LINE	2		CURB, CONC, SEPARATE, 6 INCH, MODIFIED	15
	MATCH LINE	3		SIDEWALK RAMP, ADA, MODIFIED (R-28-H)	16
	HORIZONTAL ALIGNMENT	4		DETECTABLE WARNING SURFACE TILE, MODIFIED (R-28-H)	17
	ADJACENT PROJECT	5		BENCH, TYPE M	18
	SIDEWALK, CONC, 4 INCH, MODIFIED (NO COLOR)	12		BIKE RACKS	19
	SIDEWALK, INTEGRAL COLOR CONC, TYPE 2 (GREEN), 4 INCH, MODIFIED	7		DOG LITTER RECEPTACLE, TYPE M	20
	SIDEWALK, INTEGRAL COLOR CONC, TYPE 3 (LIMESTONE), 4 INCH, MODIFIED	8		DRINKING FOUNTAIN	21
	CHEMICALLY STAINED COLORED CONCRETE, TYPE 4 (ANTIQUe AMBER)	9		TRASH RECEPTACLE, TYPE M	22
	CHEMICALLY STAINED COLORED CONCRETE, TYPE 5 (DARK WALNUT)	10		WAYFINDING COLUMN, FOUNDATION	22
	HAND PATCHING AND CONC, PAVT, MISC, 9 INCH, REINF, MODIFIED	11		FIXTURE TYPE M1 (REFER TO ELECTRICAL PLANS)	
	CONC, PAVT, MISC, 9 INCH, REINF, MODIFIED	3		FIXTURE TYPE M2, PLD (REFER TO ELECTRICAL PLANS)	
	AGGREGATE SURFACE CSE	13		FIXTURE TYPE M3 (REFER TO ELECTRICAL PLANS)	

KEY PLAN



### DRAWING TITLE

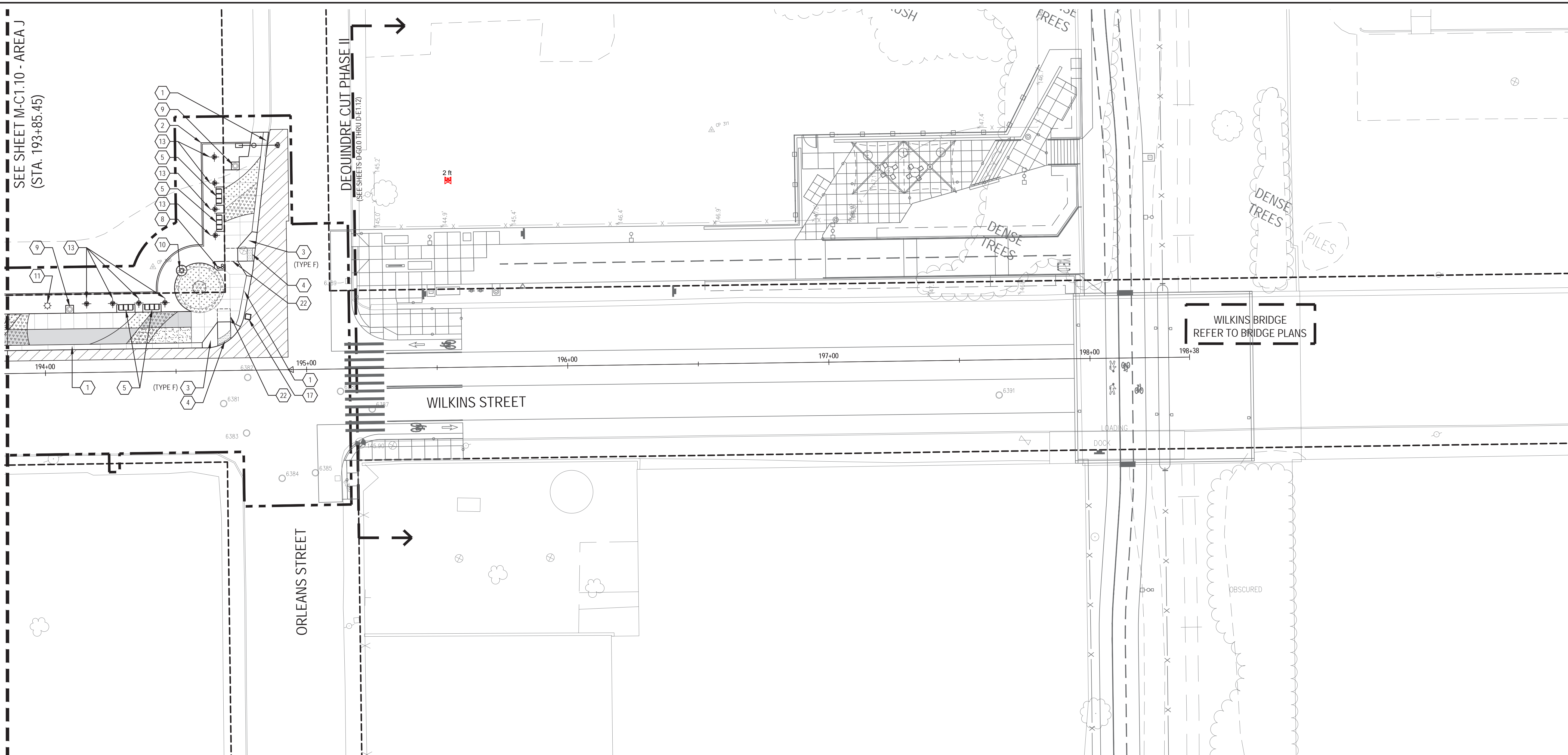
## PAVING AND MATERIALS PLAN - AREA J

GRAPHIC SCALE TAKES PRECEDENCE  
FULL SIZE SCALE (24x36)  
1" = 20'-0"  
24708.003

PROJECT NUMBER  
**M-C1.10**  
DRAWING NUMBER  
252 of 497



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SEE SHEET M-C1.10 - AREA J  
(STA. 193+85.45)

**M-C1.11 - PAVING AND MATERIALS**

QTY	UNIT	ITEM DESCRIPTION
627	Sft	_Sidewalk, Conc, 4 inch, Modified
393	Sft	_Sidewalk, Integral Color Conc, Type 2 (Green), 4 inch, Modified
153	Sft	_Sidewalk, Integral Color Conc, Type 3 (Limestone), 4 inch, Modified
805	Sft	_Sidewalk, Conc, 6 inch, Modified
0	SR	_Conc Pavt, Misc, 9 inch, Reinf, Modified
1771	Sft	_Conc, Base Pavt, 9 inch, Modified
396	Sft	_Chemically Stained Colored Concrete, Type 4, (Antique Amber)
380	Sft	_Chemically Stained Colored Concrete, Type 5, (Dark Walnut)
0	Cyd	Aggregate Surface Cse
34	Ton	Hand Patching
133	Ft	_Integral Curb and Sidewalk, 2 Foot, Modified
144	Ft	_Curb, Conc, Separate, 6 inch, Modified
0	SR	_Curb, Conc, Island
40	Cyd	Granular Material, C1 II
59	Ton	Aggregate Base
170	Sft	_Sidewalk Ramp, ADA, Modified
11	Ft	_Detectable Warning Surface Tile, Modified
4	Ea	_Bench, Type M
2	Ea	_Trash Receptacle, Type M
0	Ea	_Bike Rack, Type M
0	Ea	_Dog Litter Receptacle, Type M
1	Ea	_Drinking Fountain
1	Ea	_Wayfinding Column, Foundation

NOTE:  
1. REFER TO DRAWING G0.5 FOR PAVING AND MATERIALS NOTES.

**MIDTOWN LOOP KEY NOTES AND LEGEND**

**PAVING AND MATERIALS KEY NOTES AND LEGEND**

Symbol	Description	Code	Notes
---	CONSTRUCTION LIMIT LINE	1	
---	RIGHT - OF - WAY LINE	2	
---	MATCH LINE	3	
---	HORIZONTAL ALIGNMENT	4	
---	ADJACENT PROJECT	5	
---	_SIDEWALK, CONC, _INCH, MODIFIED (NO COLOR)	1.2 M.C5.1	
---	_SIDEWALK, INTEGRAL COLOR CONC, TYPE 2 (GREEN), _INCH, MODIFIED	7	
---	_SIDEWALK, INTEGRAL COLOR CONC, TYPE 3 (LIMESTONE), _INCH, MODIFIED	8	
---	_CHEMICALLY STAINED COLORED CONCRETE, TYPE 4 (ANTIQUÉ AMBER)	9	
---	_CHEMICALLY STAINED COLORED CONCRETE, TYPE 5 (DARK WALNUT)	10	
---	HAND PATCHING AND _CONC, PAVT, MISC, 9 INCH, REINF, MODIFIED	11	
---	_CONC, PAVT, MISC, 9 INCH, REINF, MODIFIED	3 M.C5.3	
---	AGGREGATE SURFACE CSE	13	
---	_INTEGRAL CURB AND SIDEWALK, 2 FOOT, MODIFIED	14	
---	_CURB, CONC, SEPARATE, 6 INCH, MODIFIED	2 M.C5.2	
---	_SIDEWALK RAMP, ADA, MODIFIED (R-28-H)	16	
---	_DETECTABLE WARNING SURFACE TILE, MODIFIED (R-28-H)	17	
---	_BENCH, TYPE M	1 M.C5.4	
---	_BIKE RACKS	2 M.C5.5	
---	_DOG LITTER RECEPTACLE, TYPE M	3 M.C5.5	
---	_DRINKING FOUNTAIN	4 M.C5.5	
---	_TRASH RECEPTACLE, TYPE M	3 M.C5.4	
---	_WAYFINDING COLUMN, FOUNDATION	1 M.C5.5	
---	_FIXTURE TYPE M1 (REFER TO ELECTRICAL PLANS)		
---	_FIXTURE TYPE M2, PLD (REFER TO ELECTRICAL PLANS)		
---	_FIXTURE TYPE M3 (REFER TO ELECTRICAL PLANS)		
---	_FIXTURE TYPE M2, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)		
---	_STREET LIGHT, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)		
---	_HYDRANT, RELOCATE (REFER TO UTILITY PLANS)		
---	_CATCH BASIN "A" OR "B" - WITH TRAP (REFER TO UTILITY PLANS)		
---	CURB INCIDENTAL TO _SIDEWALK RAMP, ADA MODIFIED		
---	DRIVE OR ALLEY APPROACH, TYPE M	3 M.C5.3	
---	COORDINATE CONSTRUCTION ACTIVITIES WITH ADJACENT PROJECT UNDER CONSTRUCTION BY DMC. CONSTRUCTION BY DMC. SIDEWALK RAMPS OUTSIDE OF PROJECT CONSTRUCTION LIMITS TO BE REPLACED BY DMC.		
---	NO WORK ON BRIDG EXCEPT FOR PAVEMENT MARKINGS		
---	AREA TO BE GRADED TO ADA LANDING REQUIREMENTS. REFER TO JOINTING PLANS FOR JOINT LOCATIONS.		

**Midtown Loop Phase IV**

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



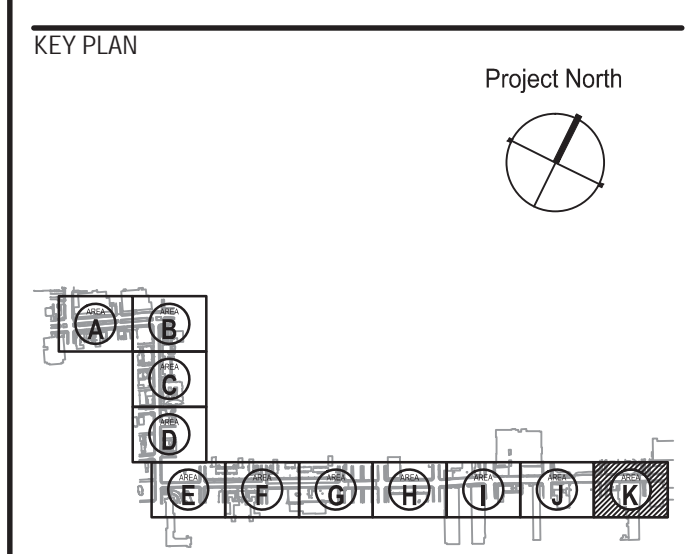
Midtown Detroit, Inc.

**SMITHGROUP JJR**

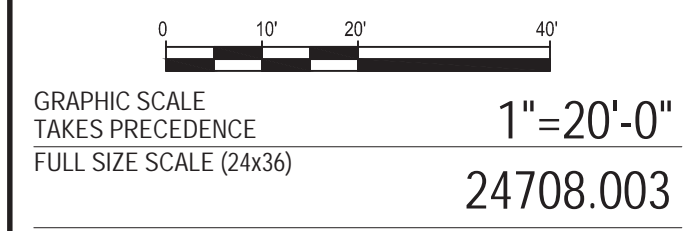
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ANN ARBOR, MI 48104  
734.662.4457  
www.smithgroupjjr.com

ISSUED FOR	REV	DATE
BIDDING DOCUMENTS	5	MAY 21, 2013
BIDDING DOCUMENTS	4	MAY 02, 2013
100% CONSTRUCTION DOCUMENTS	3	APR 01, 2013
GRADE INSPECTION	2	JAN 30, 2013
80% CONSTRUCTION DOCUMENTS	1	JAN 07, 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05, 2012

SEALS AND SIGNATURES



**PAVING AND MATERIALS PLAN - AREA K**



PROJECT NUMBER  
**M-C1.11**  
DRAWING NUMBER  
253 of 497



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# Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



Midtown Detroit, Inc.

## SMITHGROUP JJR

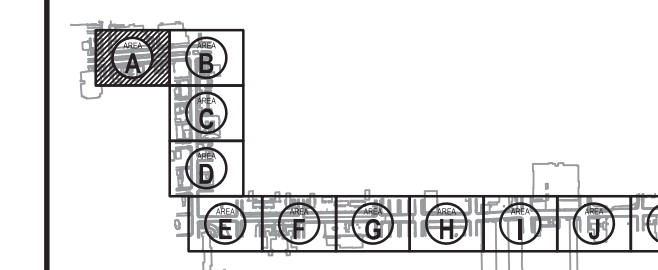
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ISSUED FOR	REV	DATE
BIDDING DOCUMENTS	5	MAY 21, 2013
BIDDING DOCUMENTS	4	MAY 02, 2013
100% CONSTRUCTION DOCUMENTS	3	APR 01, 2013
GRADE INSPECTION	2	JAN 30, 2013
80% CONSTRUCTION DOCUMENTS	1	JAN 07, 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05, 2012

SEALS AND SIGNATURES

KEY PLAN

Project North



DRAWING TITLE

LAYOUT PLAN - AREA A

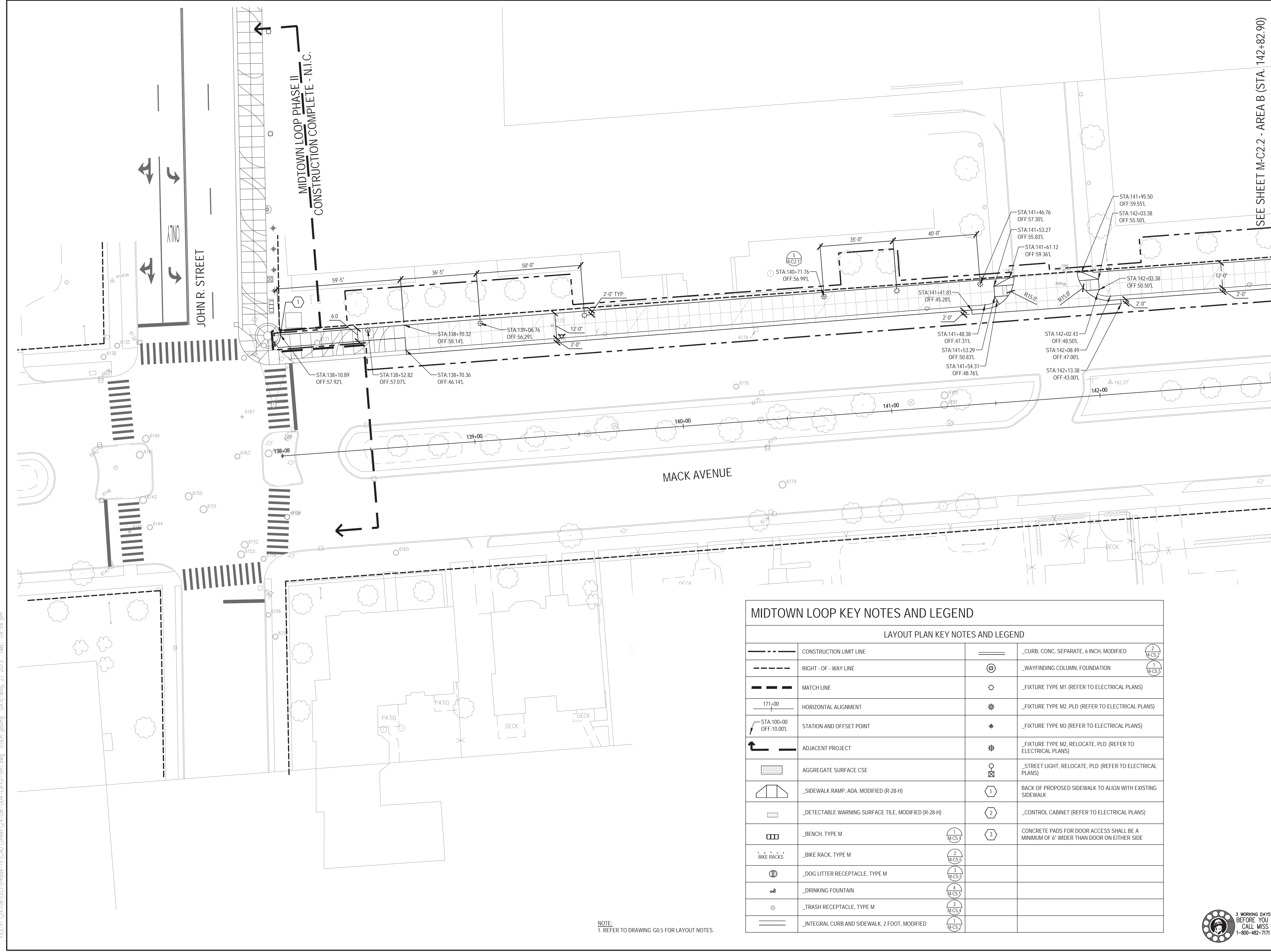
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1" = 20'-0"  
24708.003

PROJECT NUMBER

M-C2.1

DRAWING NUMBER

254 of 497



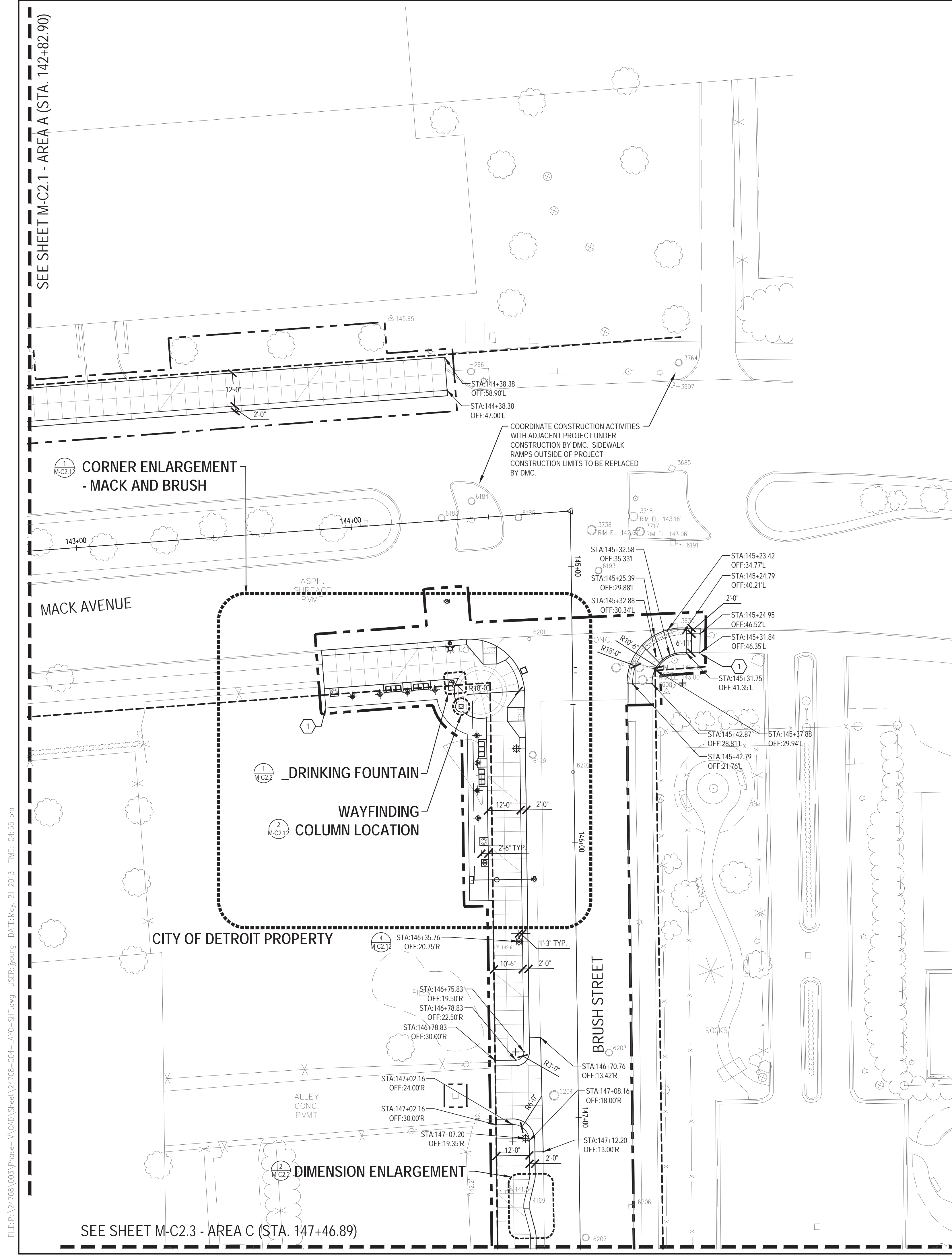
### MIDTOWN LOOP KEY NOTES AND LEGEND

#### LAYOUT PLAN KEY NOTES AND LEGEND

	CONSTRUCTION LIMIT LINE		_CURB, CONC. SEPARATE, 6 INCH, MODIFIED (2) MCS.2
	RIGHT - OF - WAY LINE		_WAYFINDING COLUMN, FOUNDATION (1) MCS.5
	MATCH LINE		_FIXTURE TYPE M1 (REFER TO ELECTRICAL PLANS)
	HORIZONTAL ALIGNMENT		_FIXTURE TYPE M2, PLD (REFER TO ELECTRICAL PLANS)
	STATION AND OFFSET POINT		_FIXTURE TYPE M3 (REFER TO ELECTRICAL PLANS)
	ADJACENT PROJECT		_FIXTURE TYPE M2, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)
	AGGREGATE SURFACE CSE		_STREET LIGHT, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)
	_SIDEWALK RAMP, ADA, MODIFIED (R-28-H)		BACK OF PROPOSED SIDEWALK TO ALIGN WITH EXISTING SIDEWALK
	_DETECTABLE WARNING SURFACE TILE, MODIFIED (R-28-H)		_CONTROL CABINET (REFER TO ELECTRICAL PLANS)
	_BENCH, TYPE M (1) MCS.4		CONCRETE PADS FOR DOOR ACCESS SHALL BE A MINIMUM OF 6" WIDER THAN DOOR ON EITHER SIDE
	_BIKE RACKS, TYPE M (2) MCS.5		
	_DOG LITTER RECEPTACLE, TYPE M (3) MCS.5		
	_DRINKING FOUNTAIN (4) MCS.5		
	_TRASH RECEPTACLE, TYPE M (3) MCS.4		
	_INTEGRAL CURB AND SIDEWALK, 2 FOOT, MODIFIED (1) MCS.2		

NOTE:  
1. REFER TO DRAWING G0.5 FOR LAYOUT NOTES.

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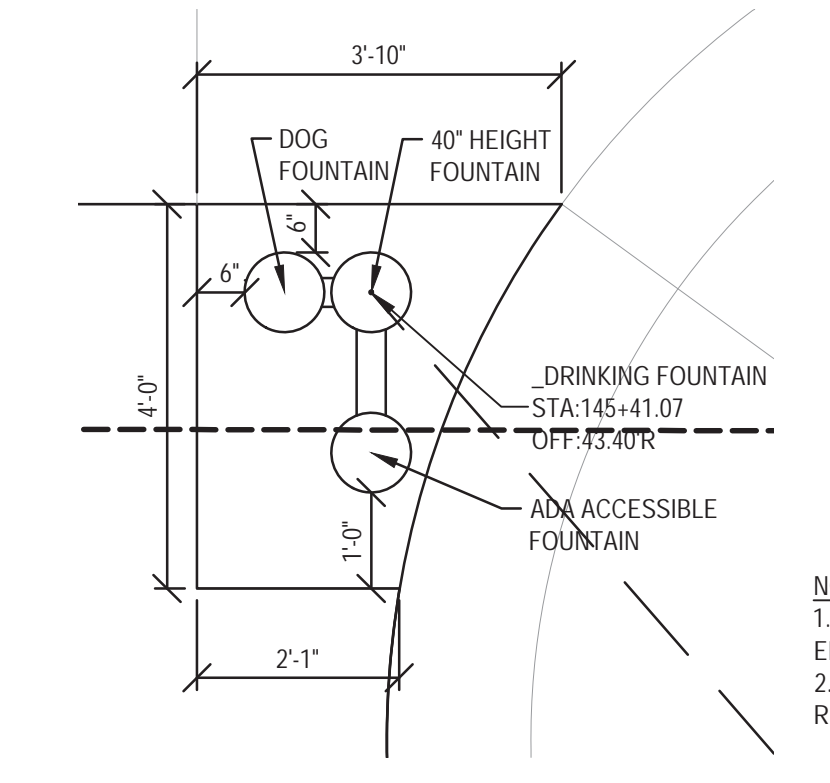


### MIDTOWN LOOP KEY NOTES AND LEGEND

#### LAYOUT PLAN KEY NOTES AND LEGEND

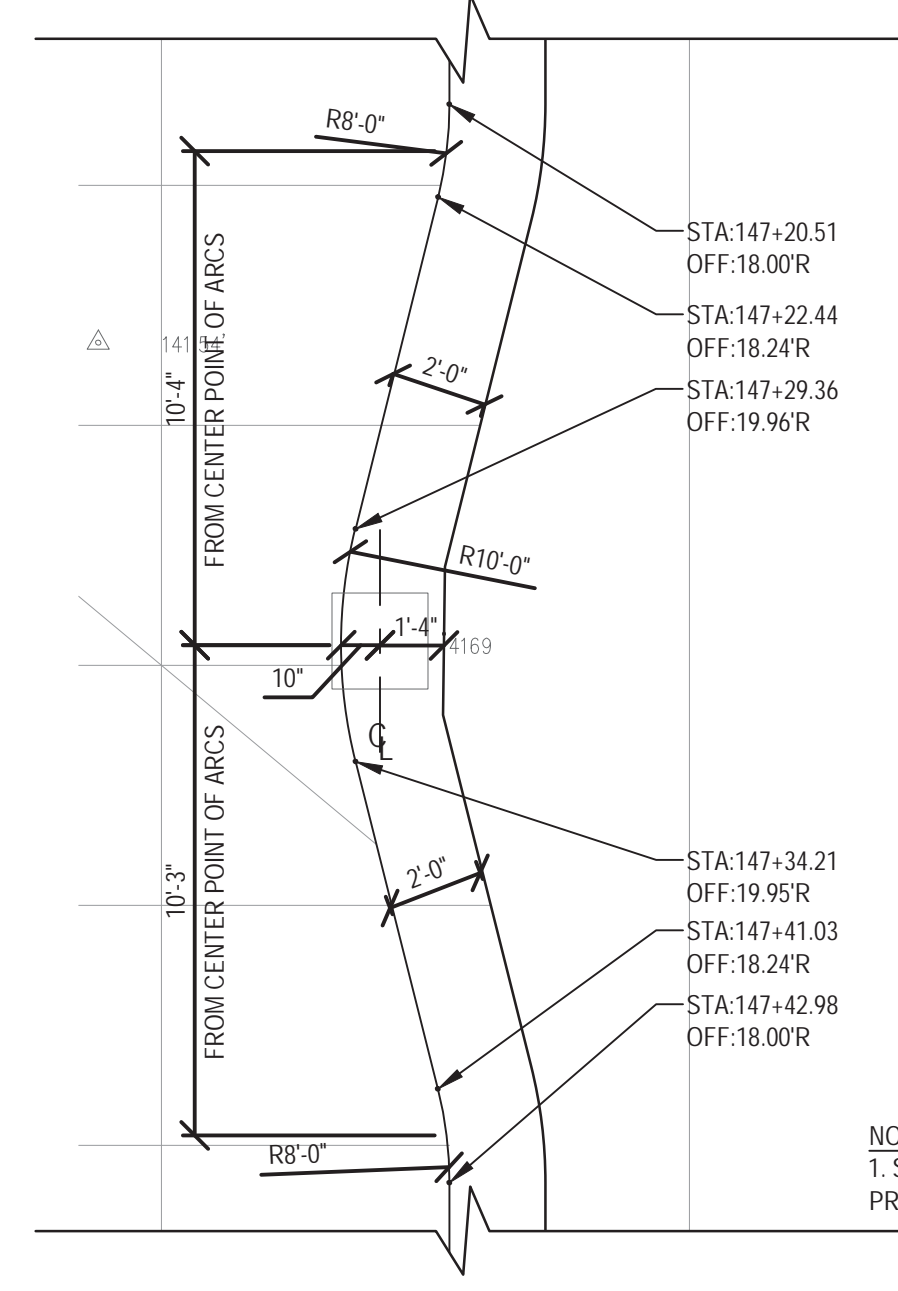
	CONSTRUCTION LIMIT LINE		_CURB, CONC. SEPARATE, 6 INCH, MODIFIED		_WAYFINDING COLUMN, FOUNDATION
	RIGHT - OF - WAY LINE		_FIXTURE TYPE M1 (REFER TO ELECTRICAL PLANS)		_FIXTURE TYPE M2, PLD (REFER TO ELECTRICAL PLANS)
	MATCH LINE		_FIXTURE TYPE M3 (REFER TO ELECTRICAL PLANS)		_FIXTURE TYPE M2, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)
	HORIZONTAL ALIGNMENT		_STREET LIGHT, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)		BACK OF PROPOSED SIDEWALK TO ALIGN WITH EXISTING SIDEWALK
	STATION AND OFFSET POINT		_CONTROL CABINET (REFER TO ELECTRICAL PLANS)		CONCRETE PADS FOR DOOR ACCESS SHALL BE A MINIMUM OF 6' WIDER THAN DOOR ON EITHER SIDE
	ADJACENT PROJECT		_BENCH, TYPE M		_BIKE RACK, TYPE M
	AGGREGATE SURFACE CSE		_DOG LITTER RECEPTACLE, TYPE M		_DRINKING FOUNTAIN
	_SIDEWALK RAMP, ADA, MODIFIED (R-28-H)		_TRASH RECEPTACLE, TYPE M		_INTEGRAL CURB AND SIDEWALK, 2 FOOT, MODIFIED
	_DETECTABLE WARNING SURFACE TILE, MODIFIED (R-28-H)				

NOTE:  
1. REFER TO DRAWING G0.5 FOR LAYOUT NOTES.



NOTES:  
1. FIELD VERIFY DRINKING FOUNTAIN LOCATION WITH ENGINEER PRIOR TO INSTALLATION.  
2. COORDINATE LOCATION WITH UTILITY CONNECTIONS. REFER TO UTILITY PLANS.

1 DRINKING FOUNTAIN  
PLAN 1"=2'



NOTES:  
1. STAKE AND CURB ALIGNMENT WITH ENGINEER PRIOR TO INSTALLATION FIELD VERIFY.

2 DIMENSION ENLARGEMENT  
PLAN 1"=4'

## Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



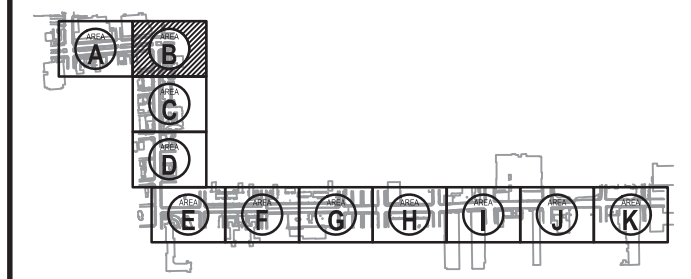
Midtown Detroit, Inc.

## SMITHGROUP JJR

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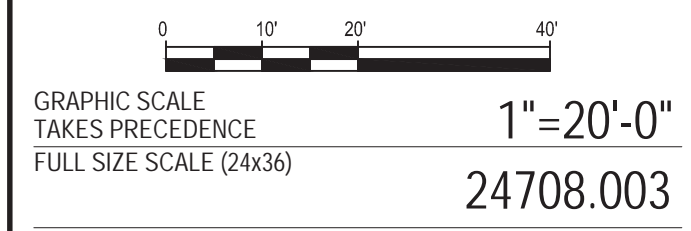
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BIDDING DOCUMENTS	4	MAY 02, 2013
100% CONSTRUCTION DOCUMENTS	3	APR 01, 2013
GRADE INSPECTION	2	JAN 30, 2013
80% CONSTRUCTION DOCUMENTS	1	JAN 07, 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05, 2012

SEALS AND SIGNATURES



### DRAWING TITLE

## LAYOUT PLAN - AREA B



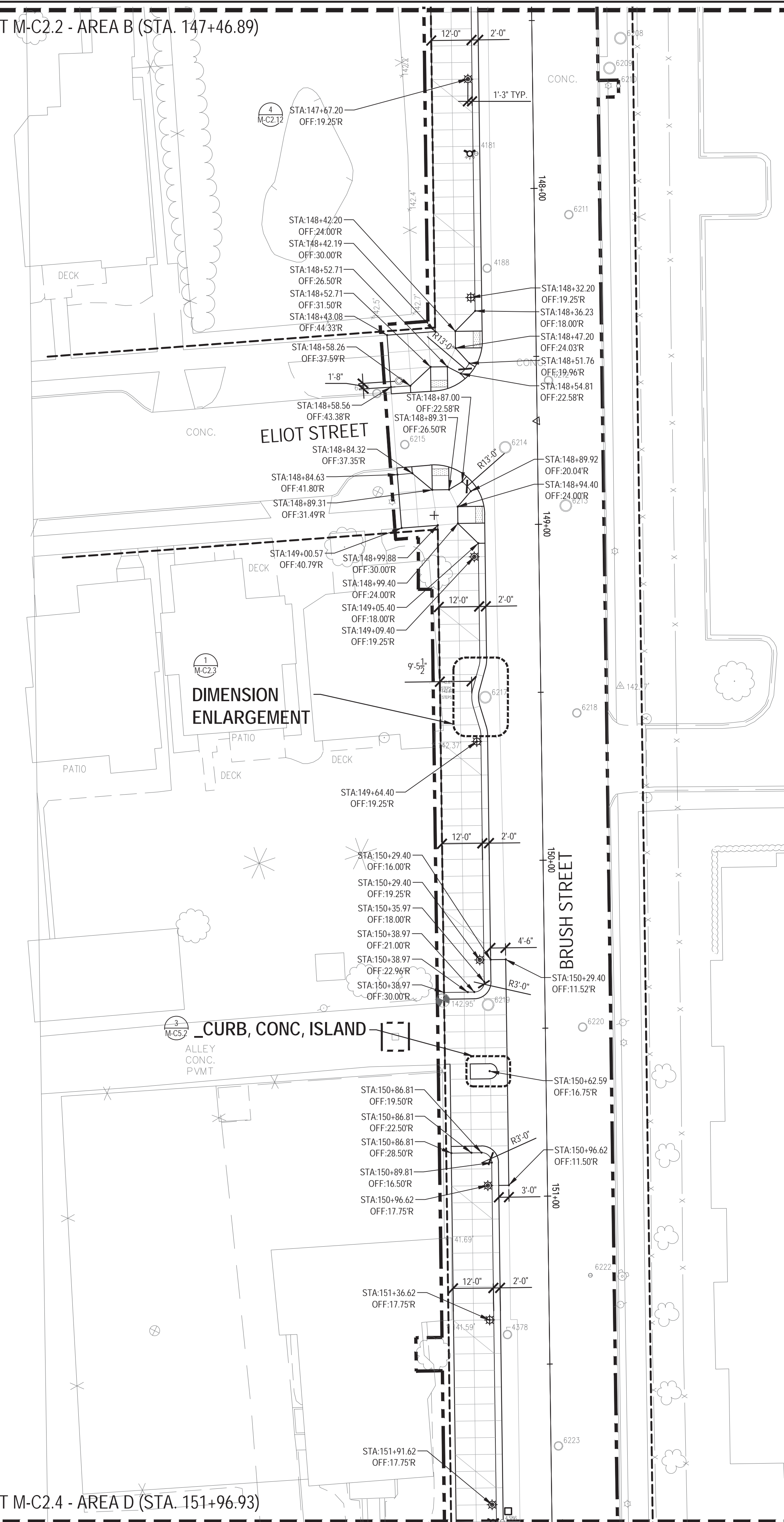
PROJECT NUMBER  
**M-C2.2**

DRAWING NUMBER  
255 of 497



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SEE SHEET M-C2.2 - AREA B (STA. 147+46.89)

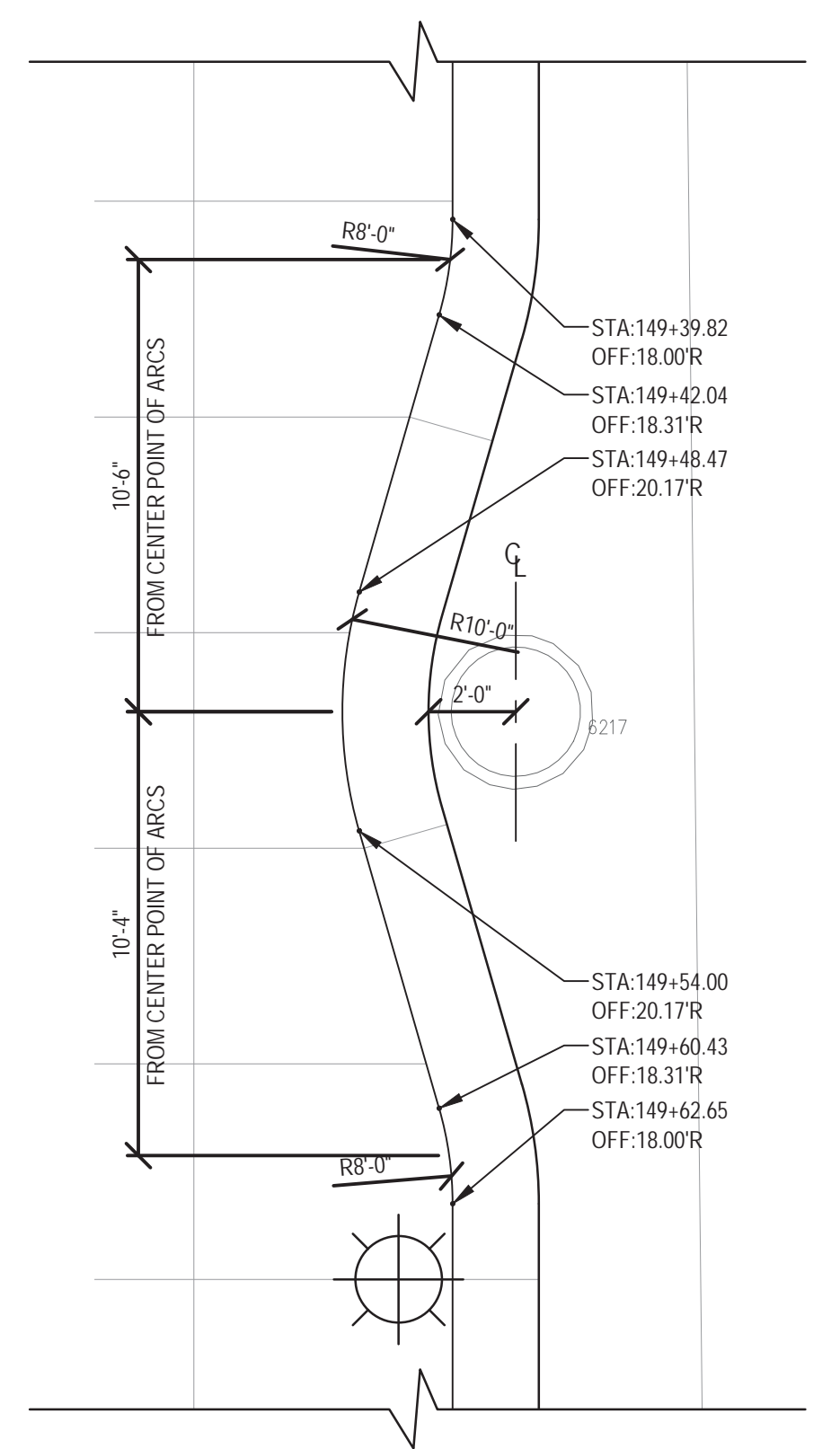


SEE SHEET M-C2.4 - AREA D (STA. 151+96.93)

MIDTOWN LOOP KEY NOTES AND LEGEND

LAYOUT PLAN KEY NOTES AND LEGEND			
	CONSTRUCTION LIMIT LINE		_CURB, CONC, SEPARATE, 6 INCH, MODIFIED (2) M-C5.2
	RIGHT - OF - WAY LINE		_WAYFINDING COLUMN, FOUNDATION (1) M-C5.3
	MATCH LINE		_FIXTURE TYPE M1 (REFER TO ELECTRICAL PLANS)
	HORIZONTAL ALIGNMENT		_FIXTURE TYPE M2, PLD (REFER TO ELECTRICAL PLANS)
	STATION AND OFFSET POINT		_FIXTURE TYPE M3 (REFER TO ELECTRICAL PLANS)
	ADJACENT PROJECT		_FIXTURE TYPE M2, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)
	AGGREGATE SURFACE CSE		_STREET LIGHT, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)
	_SIDEWALK RAMP, ADA, MODIFIED (R-28-H)		BACK OF PROPOSED SIDEWALK TO ALIGN WITH EXISTING SIDEWALK
	_DETECTABLE WARNING SURFACE TILE, MODIFIED (R-28-H)		_CONTROL CABINET (REFER TO ELECTRICAL PLANS)
	_BENCH, TYPE M		CONCRETE PADS FOR DOOR ACCESS SHALL BE A MINIMUM OF 6" WIDER THAN DOOR ON EITHER SIDE
	_BIKE RACK, TYPE M		
	_DOG LITTER RECEPTACLE, TYPE M		
	_DRINKING FOUNTAIN		
	_TRASH RECEPTACLE, TYPE M		
	_INTEGRAL CURB AND SIDEWALK, 2 FOOT, MODIFIED		

NOTE:  
1. REFER TO DRAWING G0.5 FOR LAYOUT NOTES.



NOTES:  
1. STAKE AND CURB ALIGNMENT WITH ENGINEER PRIOR TO INSTALLATION FIELD VERIFY

1 DIMENSION ENLARGEMENT PLAN 1"=4"

Midtown Loop Phase IV

Midtown Loop Detroit, Michigan



Owners:



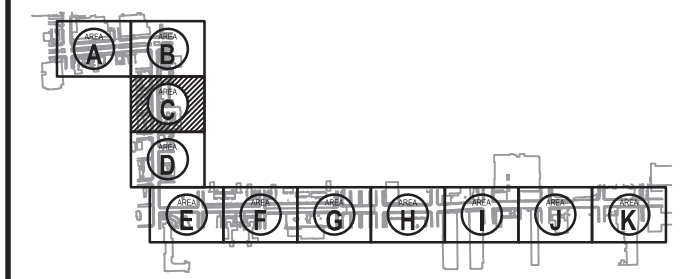
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SMITHGROUP JJR

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GRADE INSPECTION	2	JAN 30, 2013
80% CONSTRUCTION DOCUMENTS	1	JAN 07, 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05, 2012

SEALS AND SIGNATURES



DRAWING TITLE  
LAYOUT PLAN - AREA C

GRAPHIC SCALE  
TAKES PRECEDENCE  
FULL SIZE SCALE (24x36)  
1"=20'-0"  
24708.003

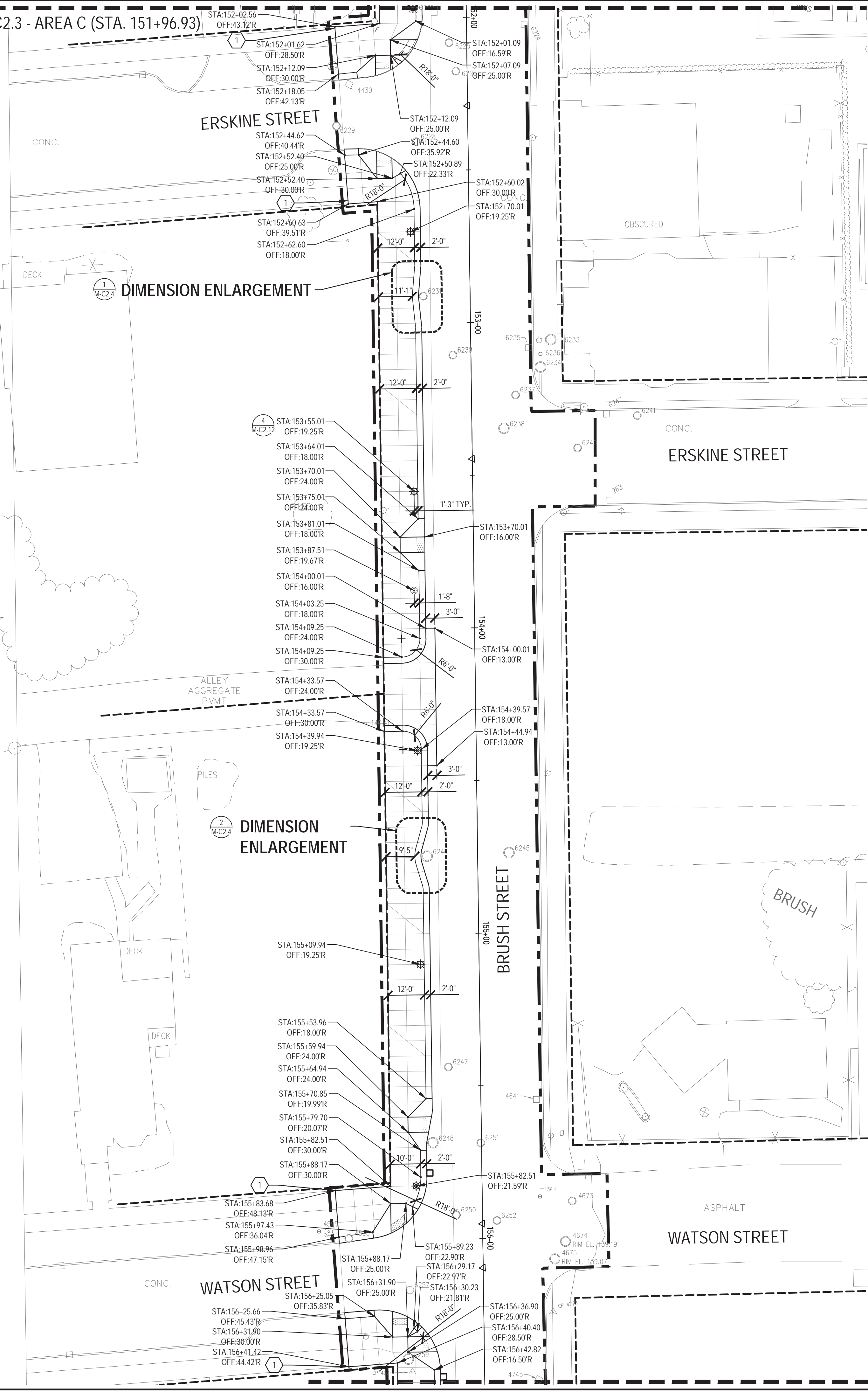
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M-C2.3  
DRAWING NUMBER  
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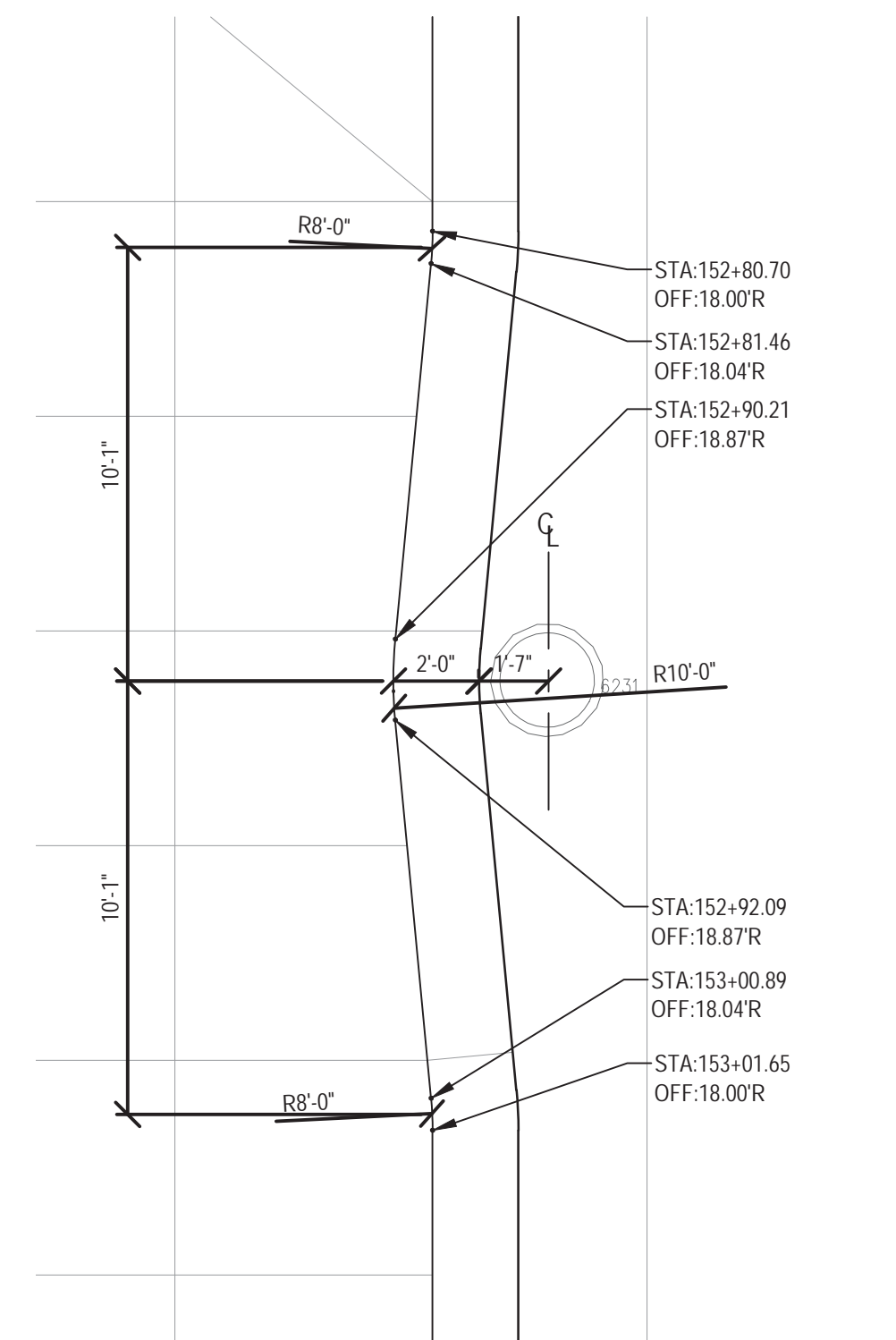
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MIDTOWN LOOP KEY NOTES AND LEGEND

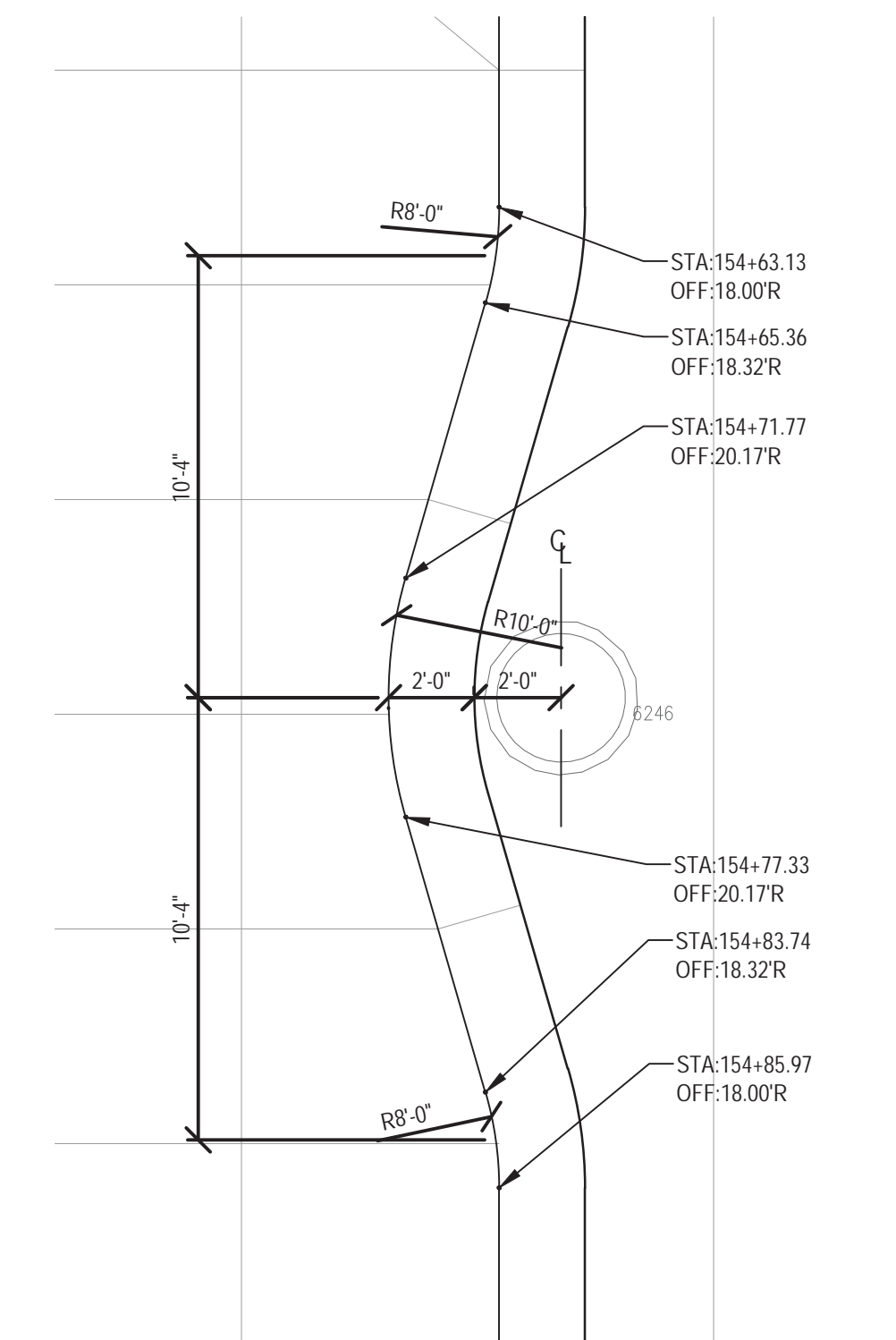
LAYOUT PLAN KEY NOTES AND LEGEND			
	CONSTRUCTION LIMIT LINE		_CURB, CONC., SEPARATE, 6 INCH, MODIFIED (2 MCS)
	RIGHT-OF-WAY LINE		_WAYFINDING COLUMN, FOUNDATION (1 MCS)
	MATCH LINE		_FIXTURE TYPE M1 (REFER TO ELECTRICAL PLANS)
	HORIZONTAL ALIGNMENT		_FIXTURE TYPE M2, PLD (REFER TO ELECTRICAL PLANS)
	STATION AND OFFSET POINT		_FIXTURE TYPE M3 (REFER TO ELECTRICAL PLANS)
	ADJACENT PROJECT		_FIXTURE TYPE M2, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)
	AGGREGATE SURFACE CSE		_STREET LIGHT, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)
	_SIDEWALK RAMP, ADA, MODIFIED (R-28-H)		BACK OF PROPOSED SIDEWALK TO ALIGN WITH EXISTING SIDEWALK
	_DETECTABLE WARNING SURFACE TILE, MODIFIED (R-28-H)		_CONTROL CABINET (REFER TO ELECTRICAL PLANS)
	_BENCH, TYPE M (1 MCS)		CONCRETE PADS FOR DOOR ACCESS SHALL BE A MINIMUM OF 6' WIDER THAN DOOR ON EITHER SIDE (3)
	_BIKE RACKS, TYPE M (2 MCS)		
	_DOG LITTER RECEPTACLE, TYPE M (3 MCS)		
	_DRINKING FOUNTAIN (4 MCS)		
	_TRASH RECEPTACLE, TYPE M (1 MCS)		
	_INTEGRAL CURB AND SIDEWALK, 2 FOOT, MODIFIED (1 MCS)		

NOTE:  
T. REFER TO DRAWING G0.5 FOR LAYOUT NOTES.



NOTES:  
1. STAKE AND CURB ALIGNMENT WITH ENGINEER PRIOR TO INSTALLATION FIELD VERIFY.

1 DIMENSION ENLARGEMENT PLAN 1"=4'



NOTES:  
1. STAKE AND CURB ALIGNMENT WITH ENGINEER PRIOR TO INSTALLATION FIELD VERIFY.

2 DIMENSION ENLARGEMENT PLAN 1"=4'

Midtown Loop  
Phase IV  
Midtown Loop  
Detroit, Michigan



Owners:  
  
City of Detroit



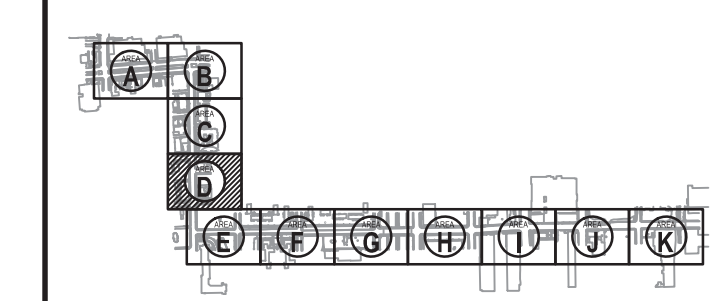
Midtown Detroit, Inc.

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100% CONSTRUCTION DOCUMENTS	3	APR 01, 2013
GRADE INSPECTION	2	JAN 30, 2013
80% CONSTRUCTION DOCUMENTS	1	JAN 07, 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05, 2012

SEALS AND SIGNATURES

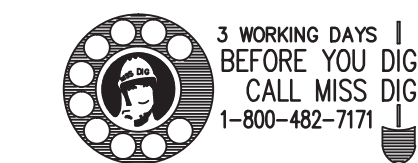


DRAWING TITLE  
LAYOUT PLAN - AREA D

GRAPHIC SCALE  
TAKES PRECEDENCE  
FULL SIZE SCALE (24x36)  
1"=20'-0"  
24708.003

PROJECT NUMBER  
M-C2.4  
DRAWING NUMBER  
257 of 497

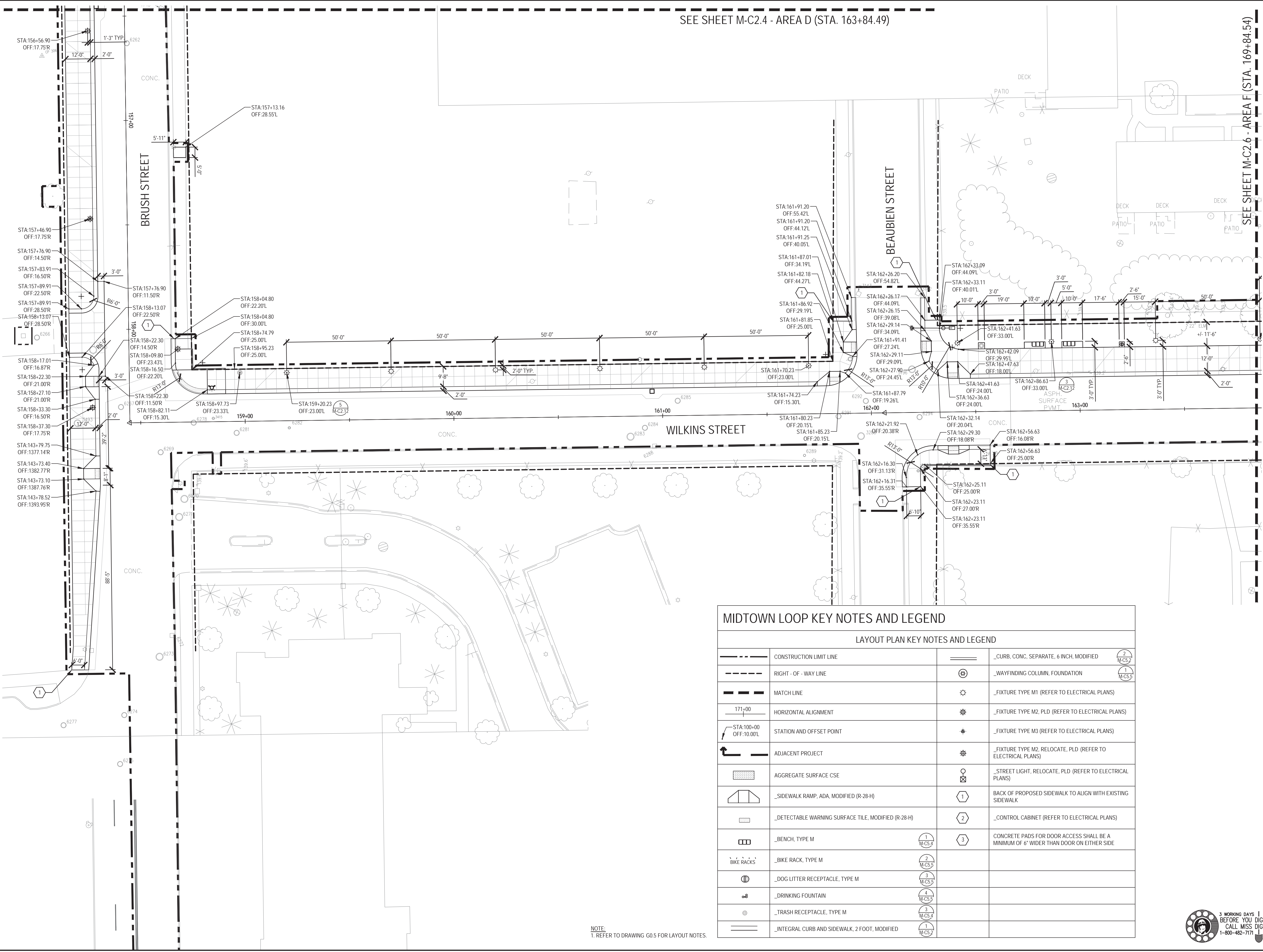
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SEE SHEET M-C2.4 - AREA D (STA. 163+84.49)

SEE SHEET M-C2.6 - AREA F (STA. 169+84.54)



**Midtown Loop Phase IV**  
 Midtown Loop  
 Detroit, Michigan

MDOT  
 Michigan Department of Transportation

Owners:  
  
 City of Detroit

MIDTOWN  
 DETROIT, INC.

Midtown Detroit, Inc.

**SMITHGROUP JJR**

201 DEPOT STREET  
 SECOND FLOOR  
 ANN ARBOR, MI 48104  
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BIDDING DOCUMENTS	4	MAY 02 2013
100% CONSTRUCTION DOCUMENTS	3	APR 01 2013
GRADE INSPECTION	2	JAN 30 2013
80% CONSTRUCTION DOCUMENTS	1	JAN 07 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05 2012

SEALS AND SIGNATURES

KEY PLAN	Project North

**MIDTOWN LOOP KEY NOTES AND LEGEND**

LAYOUT PLAN KEY NOTES AND LEGEND		
	CONSTRUCTION LIMIT LINE	CURB, CONC. SEPARATE, 6 INCH MODIFIED (2) M-C5.7
	RIGHT - OF - WAY LINE	WAYFINDING COLUMN, FOUNDATION (1) M-C5.5
	MATCH LINE	FIXTURE TYPE M1 (REFER TO ELECTRICAL PLANS)
	HORIZONTAL ALIGNMENT	FIXTURE TYPE M2, PLD (REFER TO ELECTRICAL PLANS)
	STATION AND OFFSET POINT	FIXTURE TYPE M3 (REFER TO ELECTRICAL PLANS)
	ADJACENT PROJECT	FIXTURE TYPE M2, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)
	AGGREGATE SURFACE CSE	STREET LIGHT, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)
	_SIDEWALK RAMP, ADA, MODIFIED (R-28-H)	BACK OF PROPOSED SIDEWALK TO ALIGN WITH EXISTING SIDEWALK (1)
	_DETECTABLE WARNING SURFACE TILE, MODIFIED (R-28-H)	_CONTROL CABINET (REFER TO ELECTRICAL PLANS) (2)
	_BENCH, TYPE M (1) M-C5.4	CONCRETE PADS FOR DOOR ACCESS SHALL BE A MINIMUM OF 6' WIDER THAN DOOR ON EITHER SIDE (3)
	_BIKE RACK, TYPE M (2) M-C5.5	
	_DOG LITTER RECEPTACLE, TYPE M (3) M-C5.5	
	_DRINKING FOUNTAIN (4) M-C5.5	
	_TRASH RECEPTACLE, TYPE M (3) M-C5.4	
	_INTEGRAL CURB AND SIDEWALK, 2 FOOT, MODIFIED (1) M-C5.7	

NOTE:  
 1. REFER TO DRAWING G05 FOR LAYOUT NOTES.

DRAWING TITLE  
**LAYOUT PLAN - AREA E**

GRAPHIC SCALE  
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 FULL SIZE SCALE (24x36)  
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 24708.003

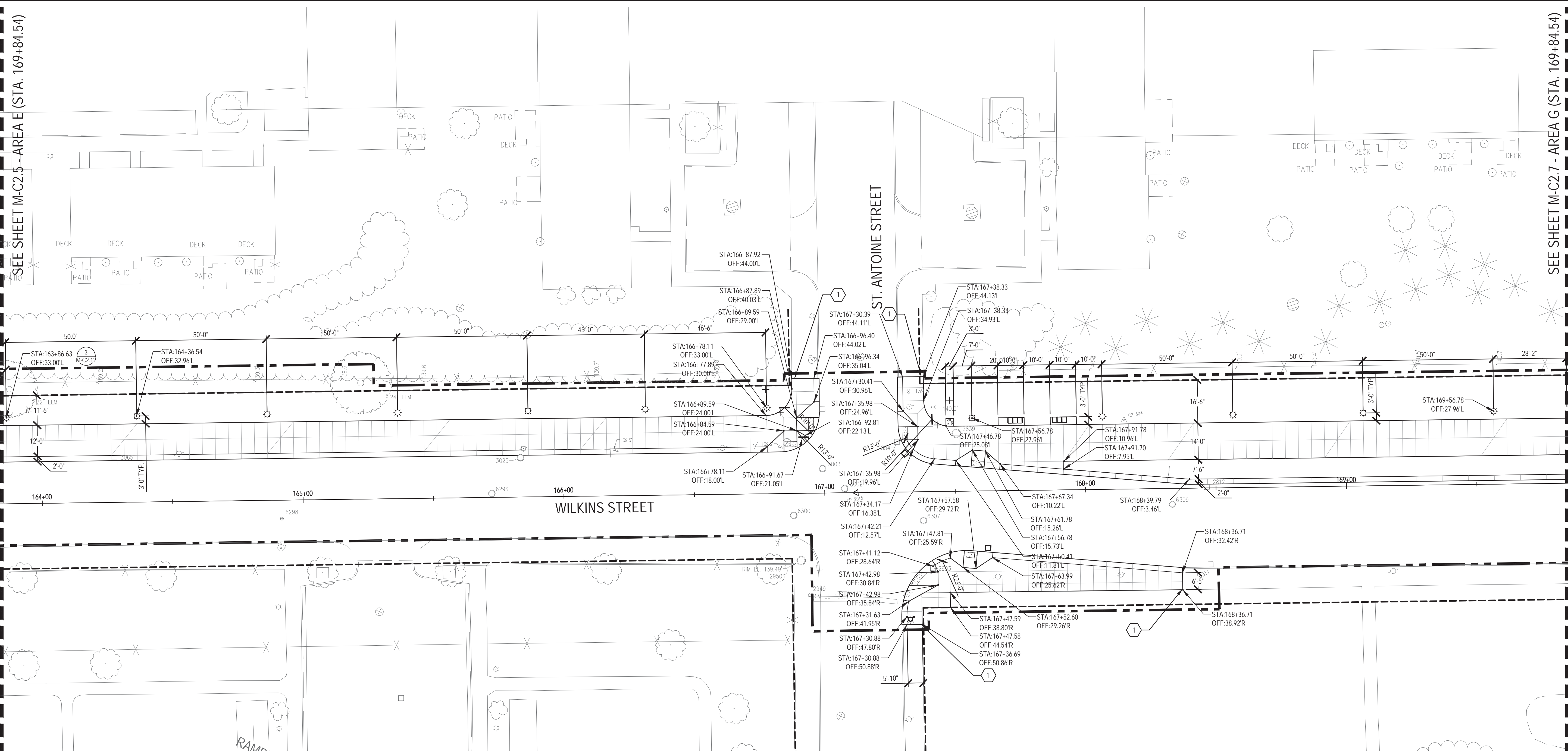
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**M-C2.5**

DRAWING NUMBER  
 258 of 497

FILE: P:\24708\003\Phase-IV\CAD\Sheet\24708-004-LAYO-SHT.dwg USER: jyoung DATE: May 21 2013 TIME: 04:56 am

SEE SHEET M-C2.5 - AREA E (STA. 169+84.54)

SEE SHEET M-C2.7 - AREA G (STA. 169+84.54)



### MIDTOWN LOOP KEY NOTES AND LEGEND

LAYOUT PLAN KEY NOTES AND LEGEND	
	CONSTRUCTION LIMIT LINE
	RIGHT - OF - WAY LINE
	MATCH LINE
	HORIZONTAL ALIGNMENT
	STATION AND OFFSET POINT
	ADJACENT PROJECT
	AGGREGATE SURFACE CSE
	_SIDEWALK RAMP, ADA, MODIFIED (R-28-H)
	_DETECTABLE WARNING SURFACE TILE, MODIFIED (R-28-H)
	_BENCH, TYPE M
	_BIKE RACK, TYPE M
	_DOG LITTER RECEPTACLE, TYPE M
	_DRINKING FOUNTAIN
	_TRASH RECEPTACLE, TYPE M
	_INTEGRAL CURB AND SIDEWALK, 2 FOOT, MODIFIED
	_CURB, CONC. SEPARATE, 6 INCH, MODIFIED
	_WAYFINDING COLUMN, FOUNDATION
	_FIXTURE TYPE M1 (REFER TO ELECTRICAL PLANS)
	_FIXTURE TYPE M2, PLD (REFER TO ELECTRICAL PLANS)
	_FIXTURE TYPE M3 (REFER TO ELECTRICAL PLANS)
	_FIXTURE TYPE M2, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)
	_STREET LIGHT, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)
	BACK OF PROPOSED SIDEWALK TO ALIGN WITH EXISTING SIDEWALK
	_CONTROL CABINET (REFER TO ELECTRICAL PLANS)
	CONCRETE PADS FOR DOOR ACCESS SHALL BE A MINIMUM OF 6' WIDER THAN DOOR ON EITHER SIDE

NOTE:  
1. REFER TO DRAWING G0.5 FOR LAYOUT NOTES.

## Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



Midtown Detroit, Inc.

## SMITHGROUP JJR

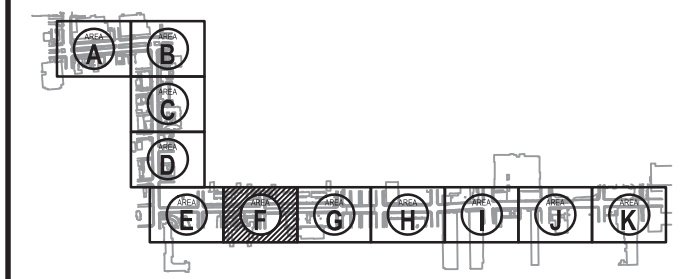
201 DEPOT STREET  
SECOND FLOOR  
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734.662.4457  
www.smithgroupjjr.com

ISSUED FOR	REV	DATE
BIDDING DOCUMENTS	5	MAY 21, 2013
BIDDING DOCUMENTS	4	MAY 02, 2013
100% CONSTRUCTION DOCUMENTS	3	APR 01, 2013
GRADE INSPECTION	2	JAN 30, 2013
80% CONSTRUCTION DOCUMENTS	1	JAN 07, 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05, 2012

SEALS AND SIGNATURES

KEY PLAN

Project North



DRAWING TITLE  
**LAYOUT PLAN - AREA F**

GRAPHIC SCALE  
TAKES PRECEDENCE  
FULL SIZE SCALE (24x36)  
**1"=20'-0"**  
24708.003

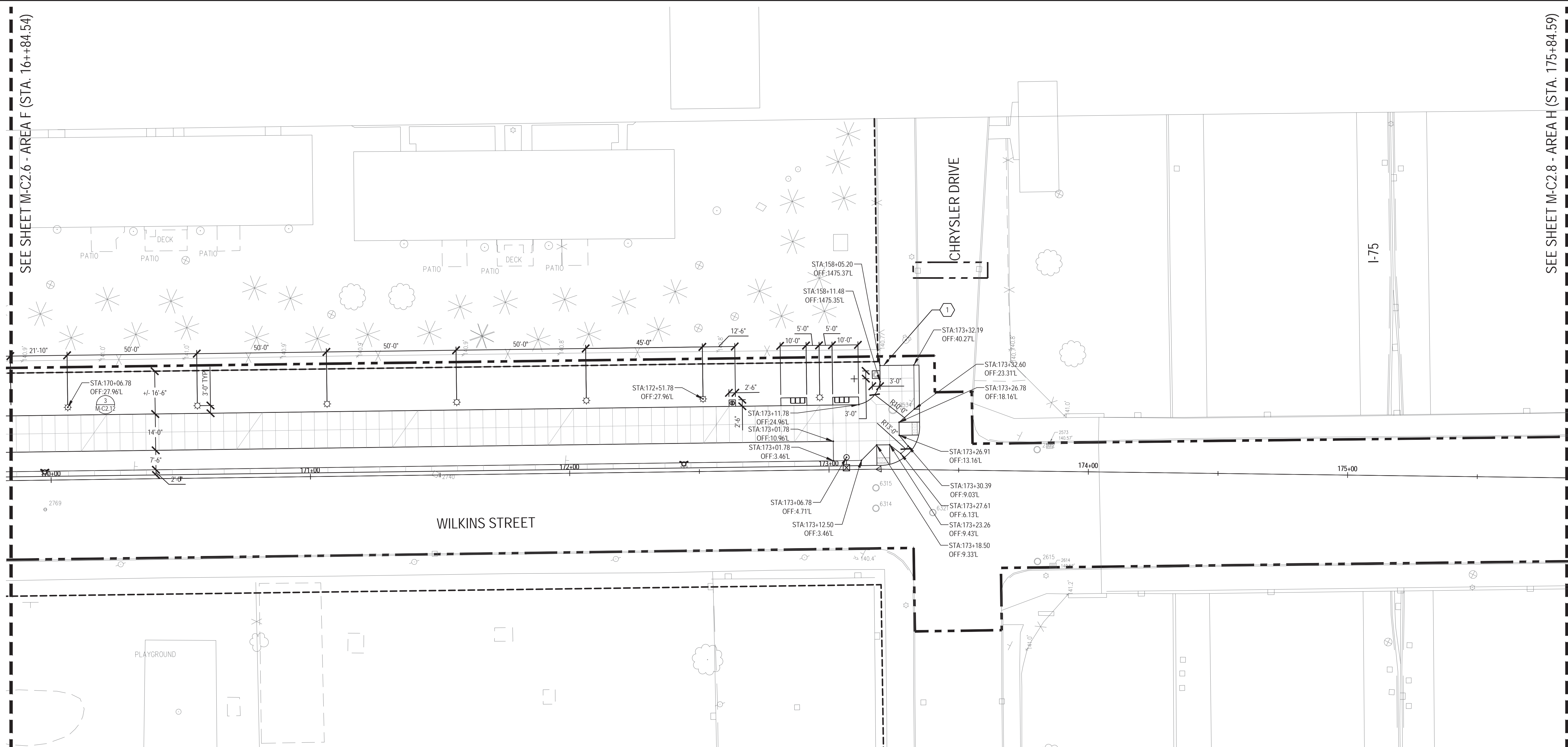
PROJECT NUMBER  
**M-C2.6**  
DRAWING NUMBER



3 WORKING DAYS  
BEFORE YOU DIG  
CALL MISS DIG  
1-800-482-7171

SEE SHEET M-C2.6 - AREA F (STA. 16++84.54)

SEE SHEET M-C2.8 - AREA H (STA. 175+84.59)



# Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



Owners:  
 City of Detroit



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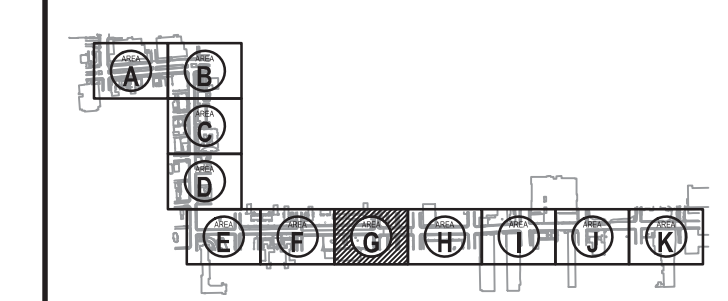
SEALS AND SIGNATURES

### MIDTOWN LOOP KEY NOTES AND LEGEND

LAYOUT PLAN KEY NOTES AND LEGEND		
	CONSTRUCTION LIMIT LINE	CURB, CONC. SEPARATE, 6 INCH, MODIFIED (2 M-C5.7)
	RIGHT - OF - WAY LINE	WAYFINDING COLUMN, FOUNDATION (1 M-C5.5)
	MATCH LINE	FIXTURE TYPE M1 (REFER TO ELECTRICAL PLANS)
	HORIZONTAL ALIGNMENT	FIXTURE TYPE M2, PLD (REFER TO ELECTRICAL PLANS)
	STATION AND OFFSET POINT	FIXTURE TYPE M3 (REFER TO ELECTRICAL PLANS)
	ADJACENT PROJECT	FIXTURE TYPE M2, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)
	AGGREGATE SURFACE CSE	STREET LIGHT, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)
	_SIDEWALK RAMP, ADA, MODIFIED (R-28-H)	BACK OF PROPOSED SIDEWALK TO ALIGN WITH EXISTING SIDEWALK
	_DETECTABLE WARNING SURFACE TILE, MODIFIED (R-28-H)	_CONTROL CABINET (REFER TO ELECTRICAL PLANS)
	_BENCH, TYPE M (1 M-C5.4)	CONCRETE PADS FOR DOOR ACCESS SHALL BE A MINIMUM OF 6' WIDER THAN DOOR ON EITHER SIDE
	_BIKE RACK, TYPE M (2 M-C5.5)	
	_DOG LITTER RECEPTACLE, TYPE M (3 M-C5.5)	
	_DRINKING FOUNTAIN (4 M-C5.5)	
	_TRASH RECEPTACLE, TYPE M (3 M-C5.4)	
	_INTEGRAL CURB AND SIDEWALK, 2 FOOT, MODIFIED (1 M-C5.7)	

NOTE:  
1. REFER TO DRAWING G0.5 FOR LAYOUT NOTES.

KEY PLAN  
Project North



### DRAWING TITLE LAYOUT PLAN - AREA G

GRAPHIC SCALE  
TAKES PRECEDENCE  
FULL SIZE SCALE (24x36)  
1"=20'-0"  
24708.003

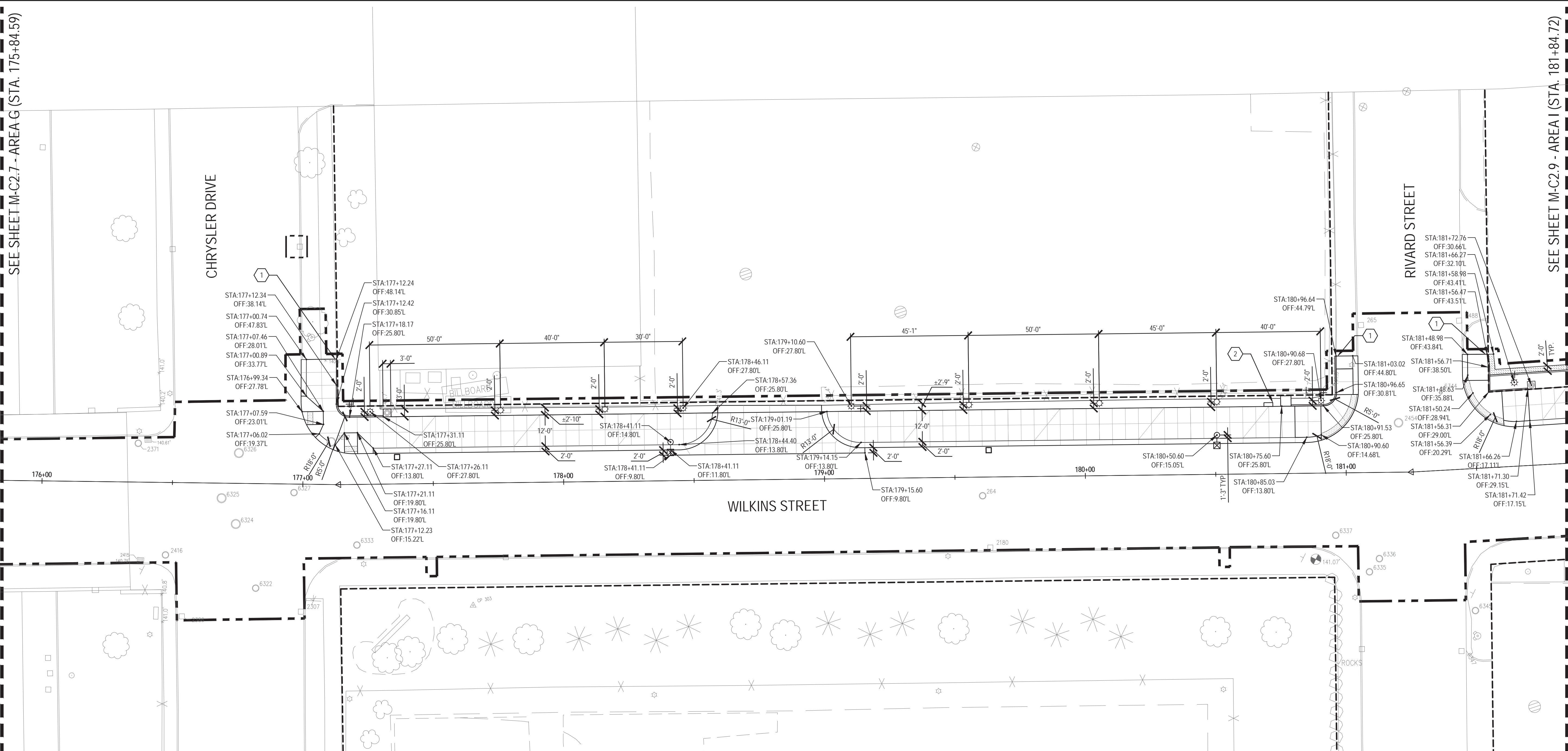
PROJECT NUMBER  
DRAWING NUMBER  
M-C2.7  
260 of 497



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SEE SHEET M-C2.7 - AREA G (STA. 175+84.59)

SEE SHEET M-C2.9 - AREA I (STA. 181+84.72)



# Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



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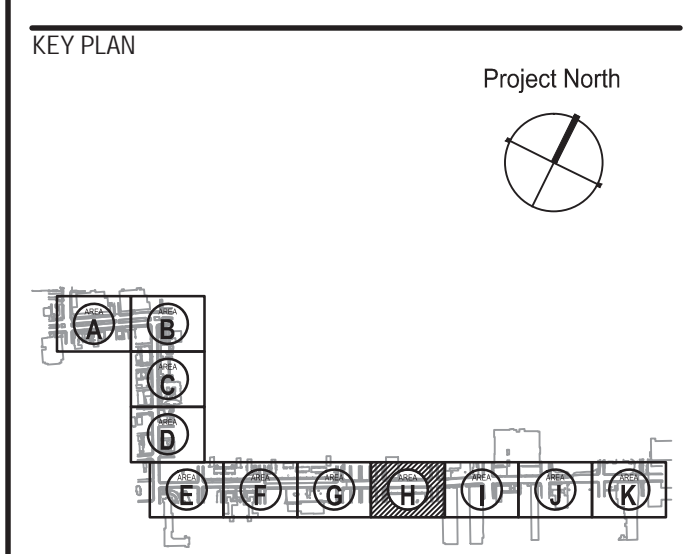
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BIDDING DOCUMENTS	4	MAY 02 2013
100% CONSTRUCTION DOCUMENTS	3	APR 01 2013
GRADE INSPECTION	2	JAN 30 2013
80% CONSTRUCTION DOCUMENTS	1	JAN 07 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05 2012

SEALS AND SIGNATURES

### MIDTOWN LOOP KEY NOTES AND LEGEND

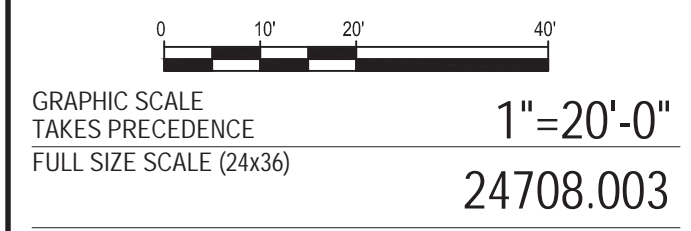
LAYOUT PLAN KEY NOTES AND LEGEND		
	CONSTRUCTION LIMIT LINE	_CURB, CONC. SEPARATE, 6 INCH, MODIFIED (2) M-C5.2
	RIGHT - OF - WAY LINE	_WAYFINDING COLUMN, FOUNDATION (1) M-C5.5
	MATCH LINE	_FIXTURE TYPE M1 (REFER TO ELECTRICAL PLANS)
	HORIZONTAL ALIGNMENT	_FIXTURE TYPE M2, PLD (REFER TO ELECTRICAL PLANS)
	STATION AND OFFSET POINT	_FIXTURE TYPE M3 (REFER TO ELECTRICAL PLANS)
	ADJACENT PROJECT	_FIXTURE TYPE M2, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)
	AGGREGATE SURFACE CSE	_STREET LIGHT, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)
	_SIDEWALK RAMP, ADA, MODIFIED (R-28-H)	BACK OF PROPOSED SIDEWALK TO ALIGN WITH EXISTING SIDEWALK
	_DETECTABLE WARNING SURFACE TILE, MODIFIED (R-28-H)	_CONTROL CABINET (REFER TO ELECTRICAL PLANS)
	_BENCH, TYPE M (1) M-C5.4	CONCRETE PADS FOR DOOR ACCESS SHALL BE A MINIMUM OF 6' WIDER THAN DOOR ON EITHER SIDE
	_BIKE RACK, TYPE M (2) M-C5.5	
	_DOG LITTER RECEPTACLE, TYPE M (3) M-C5.5	
	_DRINKING FOUNTAIN (4) M-C5.5	
	_TRASH RECEPTACLE, TYPE M (3) M-C5.4	
	_INTEGRAL CURB AND SIDEWALK, 2 FOOT, MODIFIED (1) M-C5.2	

NOTE:  
1. REFER TO DRAWING G0.5 FOR LAYOUT NOTES.



### DRAWING TITLE

## LAYOUT PLAN - AREA H



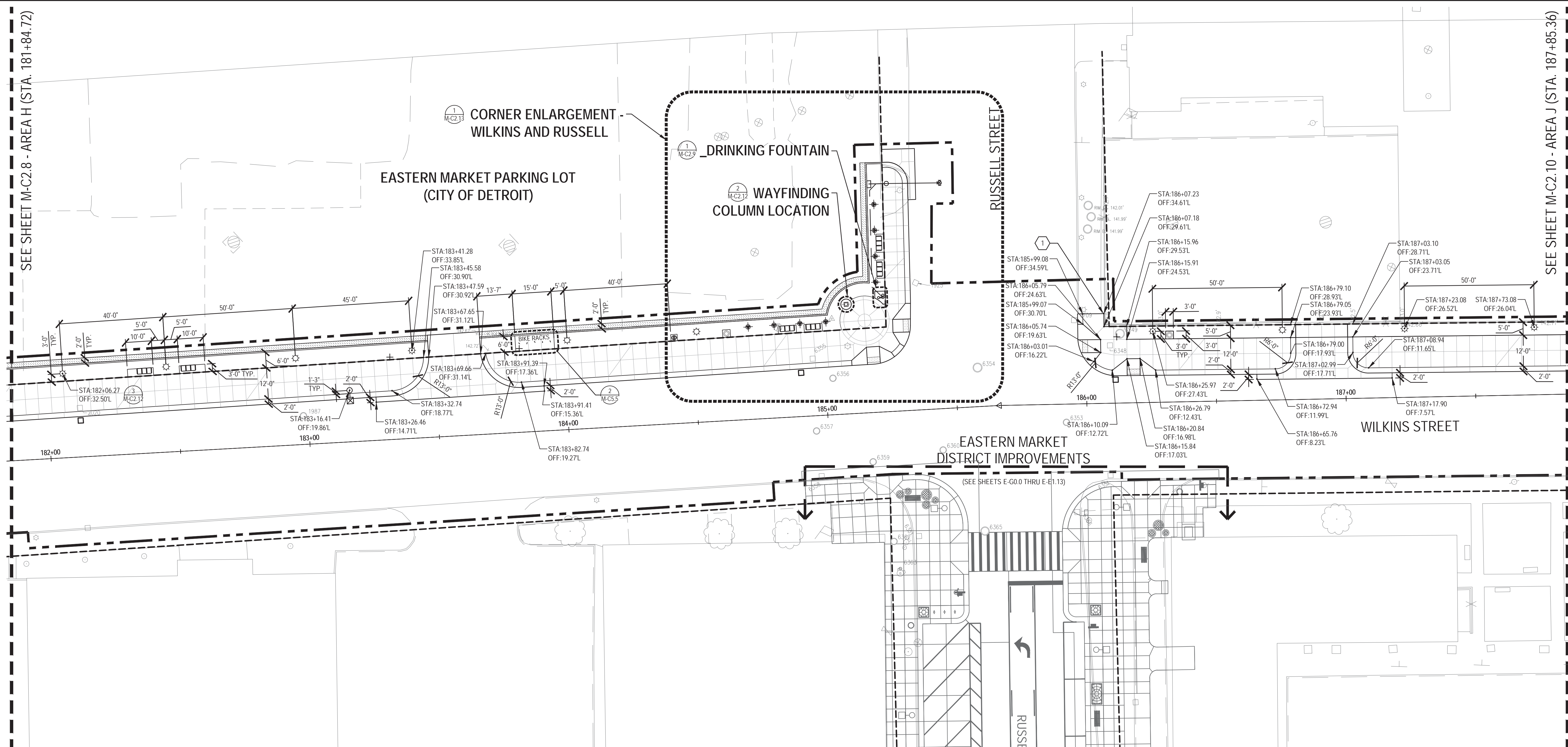
PROJECT NUMBER  
**M-C2.8**  
DRAWING NUMBER  
261 of 497



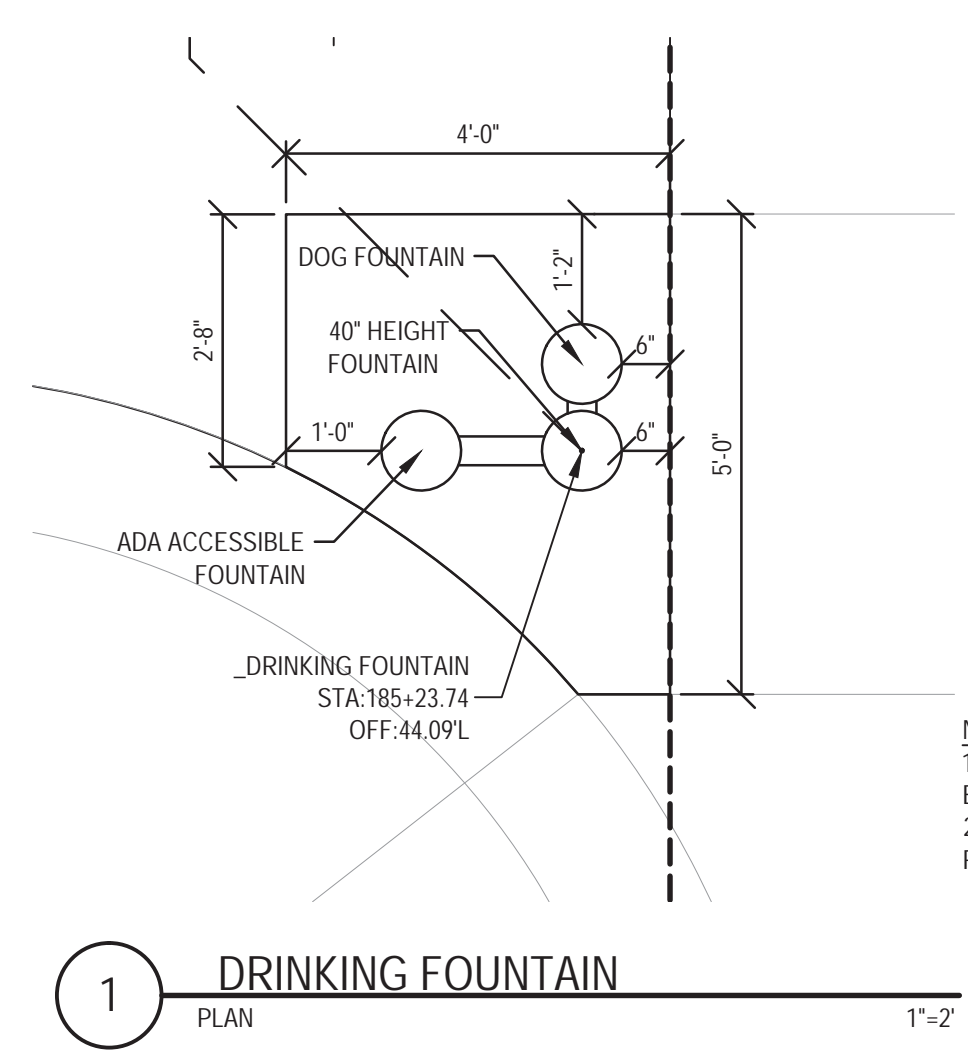
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SEE SHEET M-C2.8 - AREA H (STA. 181+84.72)

SEE SHEET M-C2.10 - AREA J (STA. 187+85.36)



MIDTOWN LOOP KEY NOTES AND LEGEND			
LAYOUT PLAN KEY NOTES AND LEGEND			
	CONSTRUCTION LIMIT LINE		_CURB, CONC. SEPARATE, 6 INCH, MODIFIED (2) M-C2.9
	RIGHT - OF - WAY LINE		_WAYFINDING COLUMN, FOUNDATION (1) M-C5.5
	MATCH LINE		_FIXTURE TYPE M1 (REFER TO ELECTRICAL PLANS)
	HORIZONTAL ALIGNMENT		_FIXTURE TYPE M2, PLD (REFER TO ELECTRICAL PLANS)
	STATION AND OFFSET POINT		_FIXTURE TYPE M3 (REFER TO ELECTRICAL PLANS)
	ADJACENT PROJECT		_FIXTURE TYPE M2, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)
	AGGREGATE SURFACE CSE		_STREET LIGHT, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)
	_SIDEWALK RAMP, ADA, MODIFIED (R-28-H)		BACK OF PROPOSED SIDEWALK TO ALIGN WITH EXISTING SIDEWALK
	_DETECTABLE WARNING SURFACE TILE, MODIFIED (R-28-H)		_CONTROL CABINET (REFER TO ELECTRICAL PLANS)
	_BENCH, TYPE M (1) M-C5.4		CONCRETE PADS FOR DOOR ACCESS SHALL BE A MINIMUM OF 6' WIDER THAN DOOR ON EITHER SIDE
	_BIKE RACK, TYPE M (2) M-C5.5		
	_DOG LITTER RECEPTACLE, TYPE M (2) M-C5.5		
	_DRINKING FOUNTAIN (4) M-C5.5		
	_TRASH RECEPTACLE, TYPE M (3) M-C5.4		
	_INTEGRAL CURB AND SIDEWALK, 2 FOOT, MODIFIED (1) M-C5.2		



NOTES:  
 1. FIELD VERIFY DRINKING FOUNTAIN LOCATION WITH ENGINEER PRIOR TO INSTALLATION.  
 2. COORDINATE LOCATION WITH UTILITY CONNECTIONS. REFER TO UTILITY PLANS.

NOTE:  
 1. REFER TO DRAWING G0.5 FOR LAYOUT NOTES.

Midtown Loop Phase IV

Midtown Loop Detroit, Michigan



Owners:



City of Detroit



Midtown Detroit, Inc.

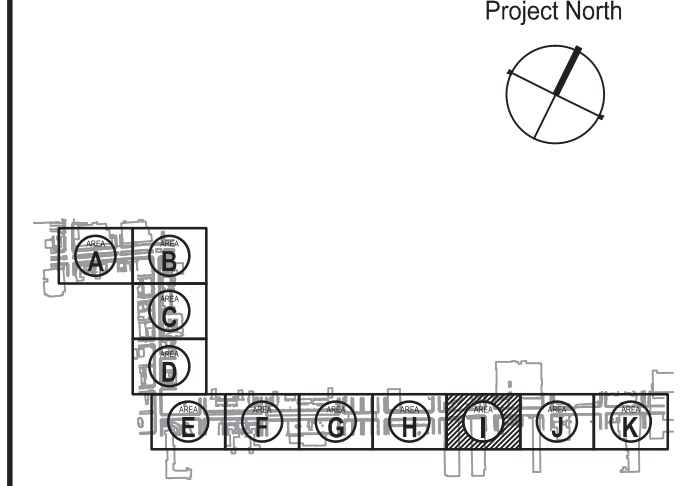
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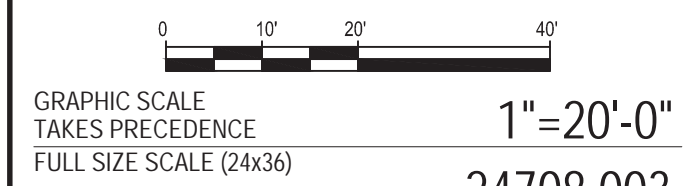
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GRADE INSPECTION	2	JAN 30, 2013
80% CONSTRUCTION DOCUMENTS	1	JAN 07, 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05, 2012

SEALS AND SIGNATURES

KEY PLAN



LAYOUT PLAN - AREA I



PROJECT NUMBER

DRAWING NUMBER

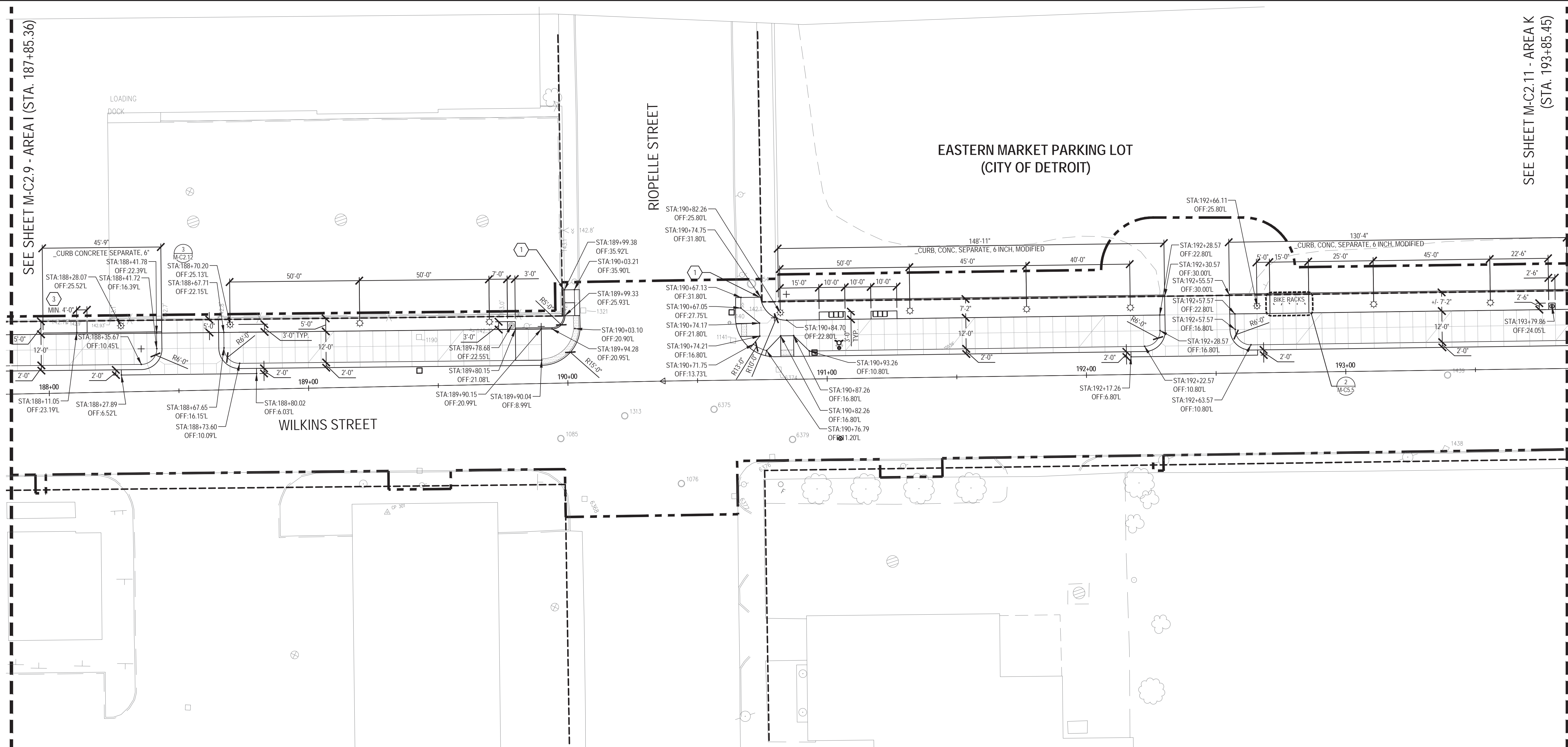


M-C2.9  
 262 of 497

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SEE SHEET M-C2.9 - AREA I (STA. 187+85.36)

SEE SHEET M-C2.11 - AREA K (STA. 193+85.45)



# Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



Midtown Detroit, Inc.

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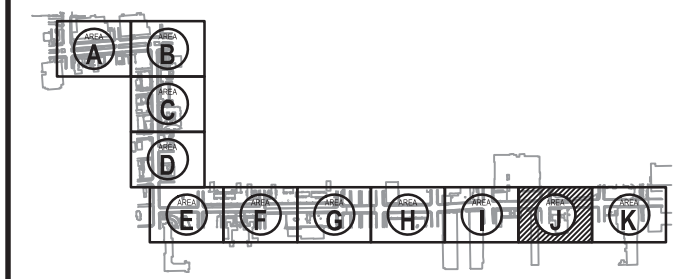
ISSUED FOR	REV	DATE
BIDDING DOCUMENTS	5	MAY 21 2013
BIDDING DOCUMENTS	4	MAY 02 2013
100% CONSTRUCTION DOCUMENTS	3	APR 01 2013
GRADE INSPECTION	2	JAN 30 2013
80% CONSTRUCTION DOCUMENTS	1	JAN 07 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05 2012

SEALS AND SIGNATURES

### MIDTOWN LOOP KEY NOTES AND LEGEND

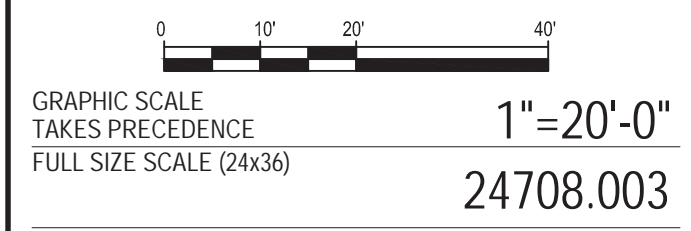
LAYOUT PLAN KEY NOTES AND LEGEND			
	CONSTRUCTION LIMIT LINE		_CURB, CONC. SEPARATE, 6 INCH, MODIFIED (2) M-C2.9
	RIGHT - OF - WAY LINE		_WAYFINDING COLUMN, FOUNDATION (1) M-C5.5
	MATCH LINE		_FIXTURE TYPE M1 (REFER TO ELECTRICAL PLANS)
	HORIZONTAL ALIGNMENT		_FIXTURE TYPE M2, PLD (REFER TO ELECTRICAL PLANS)
	STATION AND OFFSET POINT		_FIXTURE TYPE M3 (REFER TO ELECTRICAL PLANS)
	ADJACENT PROJECT		_FIXTURE TYPE M2, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)
	AGGREGATE SURFACE CSE		_STREET LIGHT, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)
	_SIDEWALK RAMP, ADA, MODIFIED (R-28-H)		BACK OF PROPOSED SIDEWALK TO ALIGN WITH EXISTING SIDEWALK (1)
	_DETECTABLE WARNING SURFACE TILE, MODIFIED (R-28-H)		_CONTROL CABINET (REFER TO ELECTRICAL PLANS) (2)
	_BENCH, TYPE M (1) M-C5.4		CONCRETE PADS FOR DOOR ACCESS SHALL BE A MINIMUM OF 6" WIDER THAN DOOR ON EITHER SIDE (3)
	_BIKE RACK, TYPE M (2) M-C5.5		
	_DOG LITTER RECEPTACLE, TYPE M (2) M-C5.5		
	_DRINKING FOUNTAIN (4) M-C5.5		
	_TRASH RECEPTACLE, TYPE M (3) M-C5.4		
	_INTEGRAL CURB AND SIDEWALK, 2 FOOT, MODIFIED (1) M-C2.9		

NOTE:  
1. REFER TO DRAWING G0.5 FOR LAYOUT NOTES.



### DRAWING TITLE

## LAYOUT PLAN - AREA J

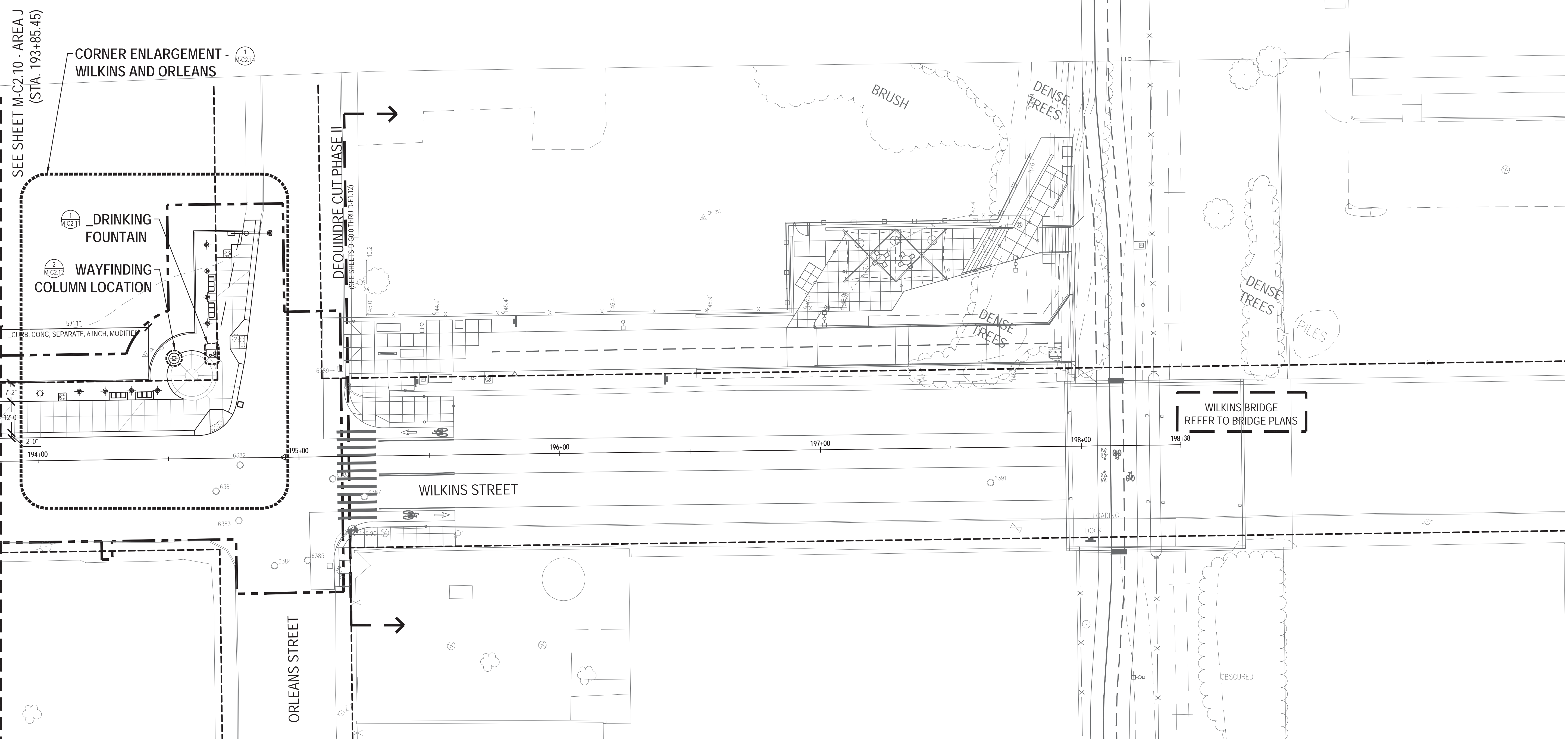


PROJECT NUMBER  
**M-C2.10**

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263 of 497



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SEE SHEET M-C2.10 - AREA J  
(STA. 193+85.45)

CORNER ENLARGEMENT -  
WILKINS AND ORLEANS

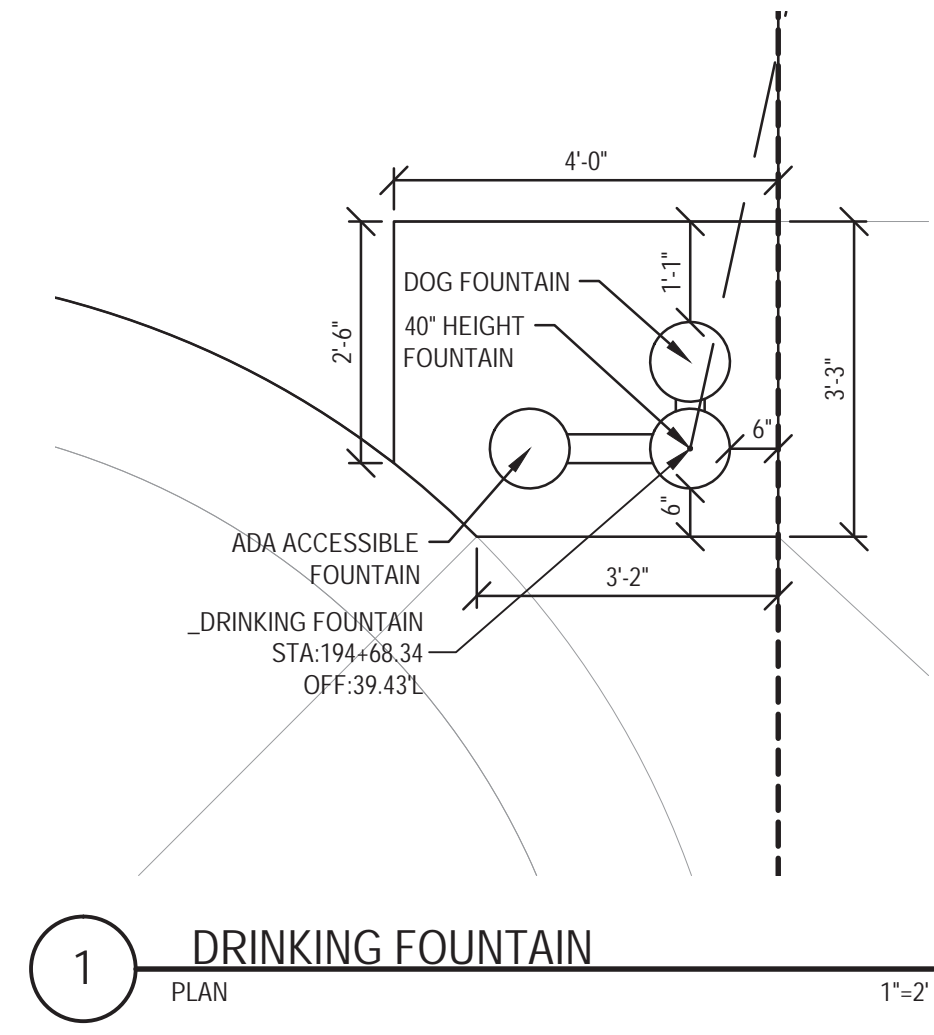
1 M-C2.11  
\_DRINKING  
FOUNTAIN  
2 M-C2.12  
WAYFINDING  
COLUMN LOCATION

DEQUINDRE CUT PHASE II  
REF SHEETS 0-8510 THRU 0-8112

WILKINS BRIDGE  
REFER TO BRIDGE PLANS

MIDTOWN LOOP KEY NOTES AND LEGEND			
LAYOUT PLAN KEY NOTES AND LEGEND			
	CONSTRUCTION LIMIT LINE		_CURB, CONC. SEPARATE, 6 INCH, MODIFIED <sup>2</sup> M-C5.2
	RIGHT - OF - WAY LINE		_WAYFINDING COLUMN, FOUNDATION <sup>1</sup> M-C5.5
	MATCH LINE		_FIXTURE TYPE M1 (REFER TO ELECTRICAL PLANS)
	HORIZONTAL ALIGNMENT		_FIXTURE TYPE M2, PLD (REFER TO ELECTRICAL PLANS)
	STATION AND OFFSET POINT		_FIXTURE TYPE M3 (REFER TO ELECTRICAL PLANS)
	ADJACENT PROJECT		_FIXTURE TYPE M2, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)
	AGGREGATE SURFACE CSE		_STREET LIGHT, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)
	_SIDEWALK RAMP, ADA, MODIFIED (R-28-H)		BACK OF PROPOSED SIDEWALK TO ALIGN WITH EXISTING SIDEWALK
	_DETECTABLE WARNING SURFACE TILE, MODIFIED (R-28-H)		_CONTROL CABINET (REFER TO ELECTRICAL PLANS)
	_BENCH, TYPE M <sup>1</sup> M-C5.4		CONCRETE PADS FOR DOOR ACCESS SHALL BE A MINIMUM OF 6' WIDER THAN DOOR ON EITHER SIDE
	_BIKE RACK, TYPE M <sup>2</sup> M-C5.5		
	_DOG LITTER RECEPTACLE, TYPE M <sup>3</sup> M-C5.5		
	_DRINKING FOUNTAIN <sup>4</sup> M-C5.5		
	_TRASH RECEPTACLE, TYPE M <sup>5</sup> M-C5.4		
	_INTEGRAL CURB AND SIDEWALK, 2 FOOT, MODIFIED <sup>1</sup> M-C5.2		

NOTE:  
1. REFER TO DRAWING G0.5 FOR LAYOUT NOTES.



1 DRINKING FOUNTAIN  
PLAN

NOTES:  
1. FIELD VERIFY DRINKING FOUNTAIN LOCATION WITH ENGINEER PRIOR TO INSTALLATION.  
2. COORDINATE LOCATION WITH UTILITY CONNECTIONS. REFER TO UTILITY PLANS.

# Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



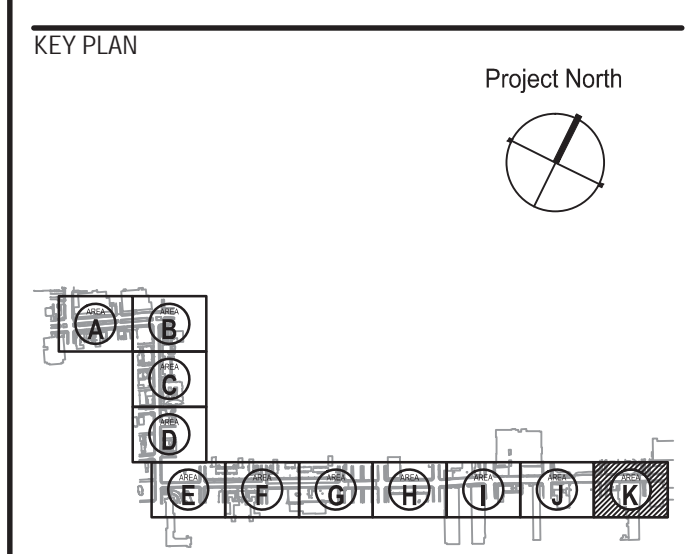
Midtown Detroit, Inc.

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80% CONSTRUCTION DOCUMENTS	1	JAN 07, 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05, 2012

SEALS AND SIGNATURES



DRAWING TITLE  
LAYOUT PLAN - AREA J

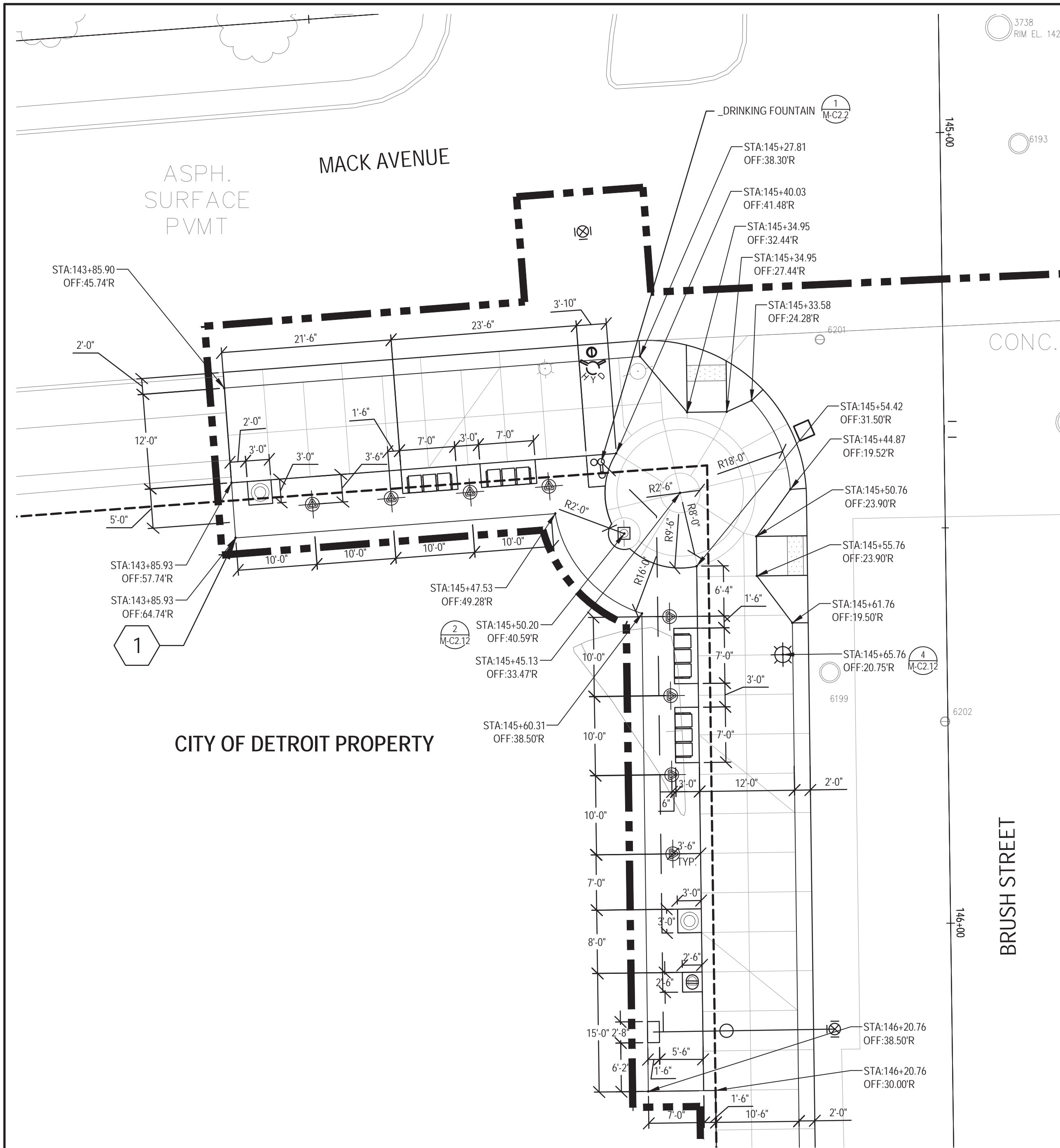
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1" = 20'-0"  
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PROJECT NUMBER  
M-C2.11  
DRAWING NUMBER



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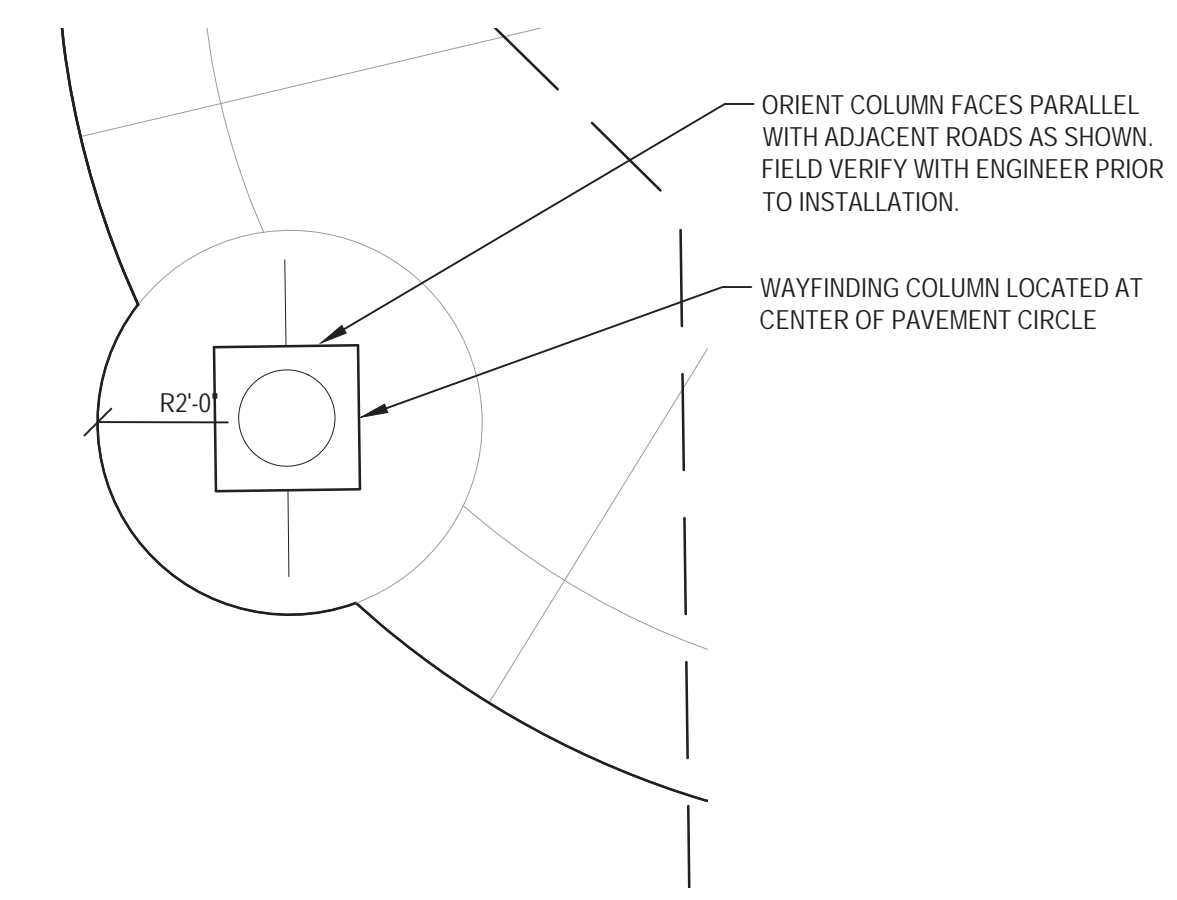




MIDTOWN LOOP KEY NOTES AND LEGEND

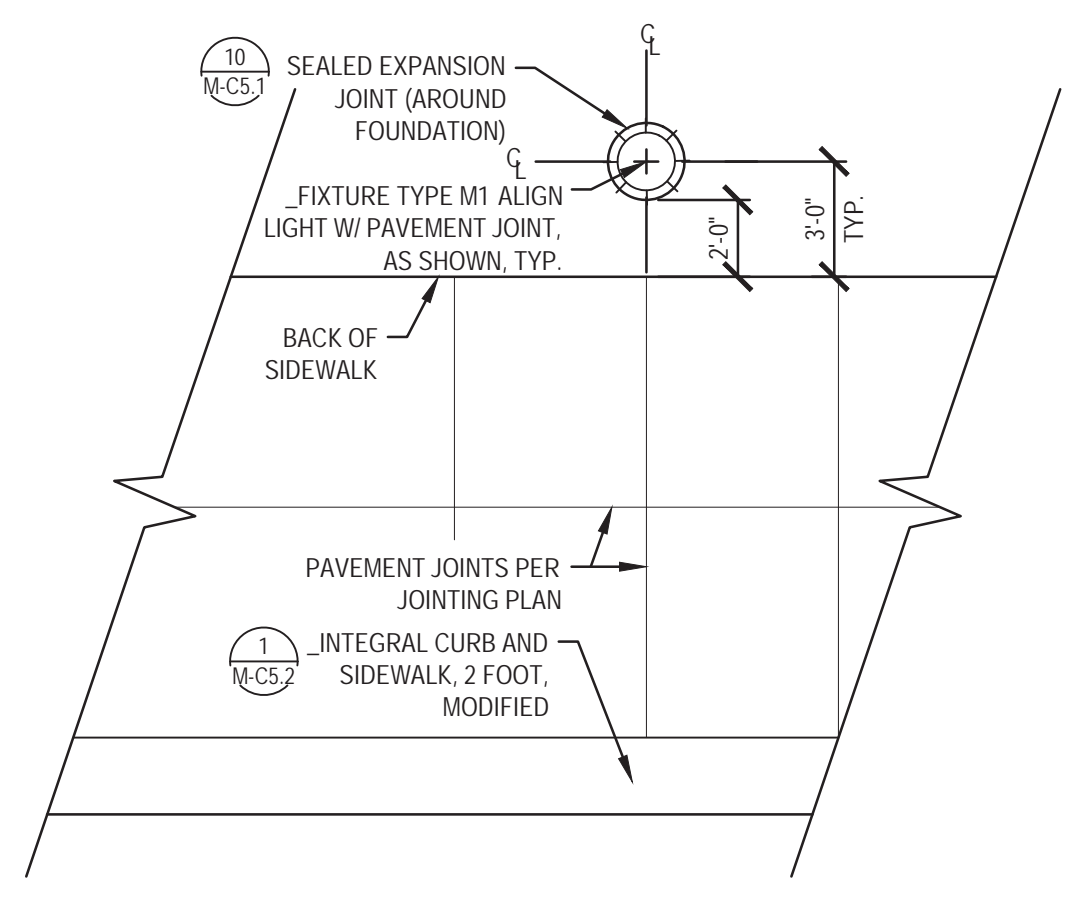
LAYOUT PLAN KEY NOTES AND LEGEND			
	CONSTRUCTION LIMIT LINE		_CURB, CONC. SEPARATE, 6 INCH, MODIFIED
	RIGHT - OF - WAY LINE		_WAYFINDING COLUMN, FOUNDATION
	MATCH LINE		_FIXTURE TYPE M1 (REFER TO ELECTRICAL PLANS)
	HORIZONTAL ALIGNMENT		_FIXTURE TYPE M2, PLD (REFER TO ELECTRICAL PLANS)
	STATION AND OFFSET POINT		_FIXTURE TYPE M3 (REFER TO ELECTRICAL PLANS)
	ADJACENT PROJECT		_FIXTURE TYPE M2, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)
	AGGREGATE SURFACE CSE		_STREET LIGHT, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)
	_SIDEWALK RAMP, ADA, MODIFIED (R-28-H)		BACK OF PROPOSED SIDEWALK TO ALIGN WITH EXISTING SIDEWALK
	_DETECTABLE WARNING SURFACE TILE, MODIFIED (R-28-H)		_CONTROL CABINET (REFER TO ELECTRICAL PLANS)
	_BENCH, TYPE M		CONCRETE PADS FOR DOOR ACCESS SHALL BE A MINIMUM OF 6" WIDER THAN DOOR ON EITHER SIDE
	_BIKE RACK, TYPE M		
	_DOG LITTER RECEPTACLE, TYPE M		
	_DRINKING FOUNTAIN		
	_TRASH RECEPTACLE, TYPE M		
	_INTEGRAL CURB AND SIDEWALK, 2 FOOT, MODIFIED		

NOTE:  
1. REFER TO DRAWING G0.5 FOR LAYOUT NOTES.

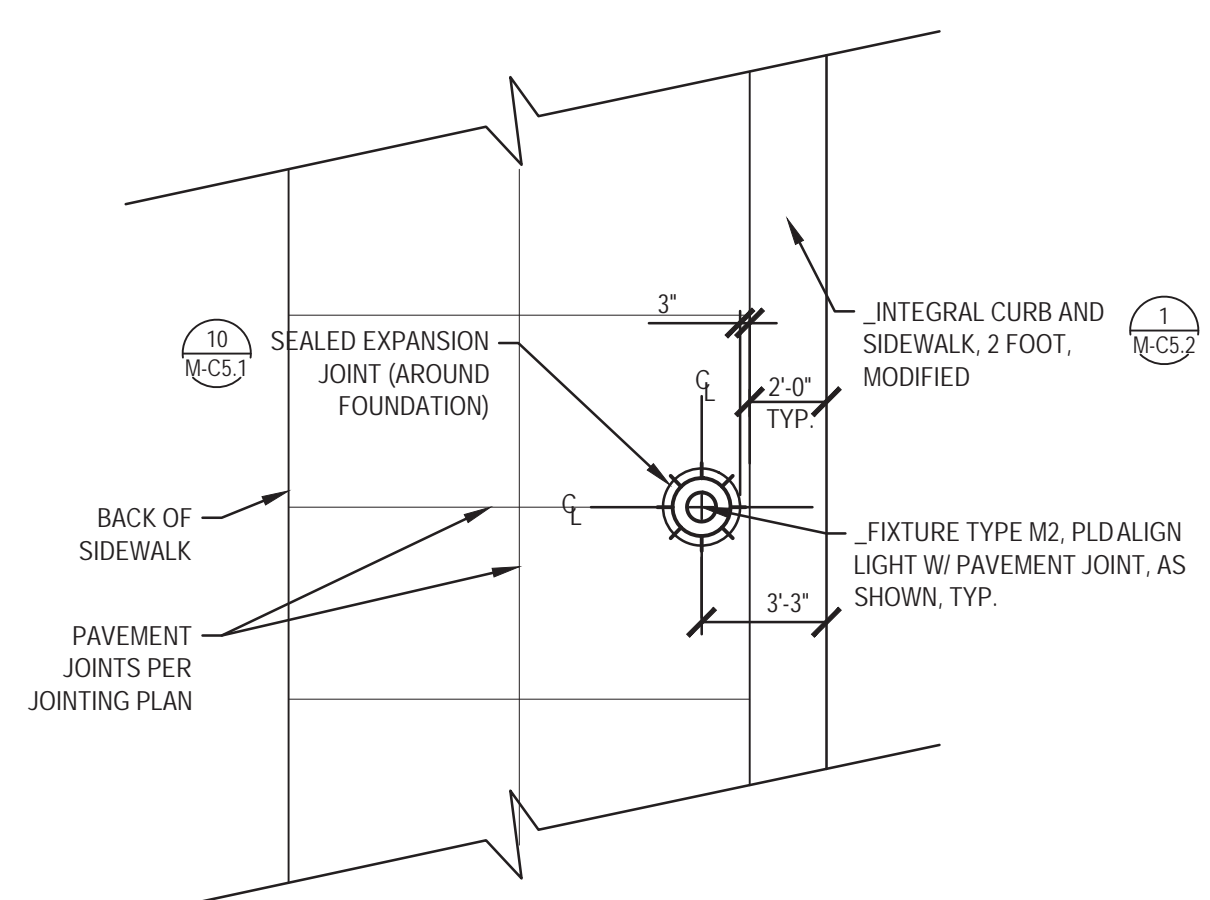


1 CORNER ENLARGEMENT - MACK AND BRUSH  
PLAN 1"=10'

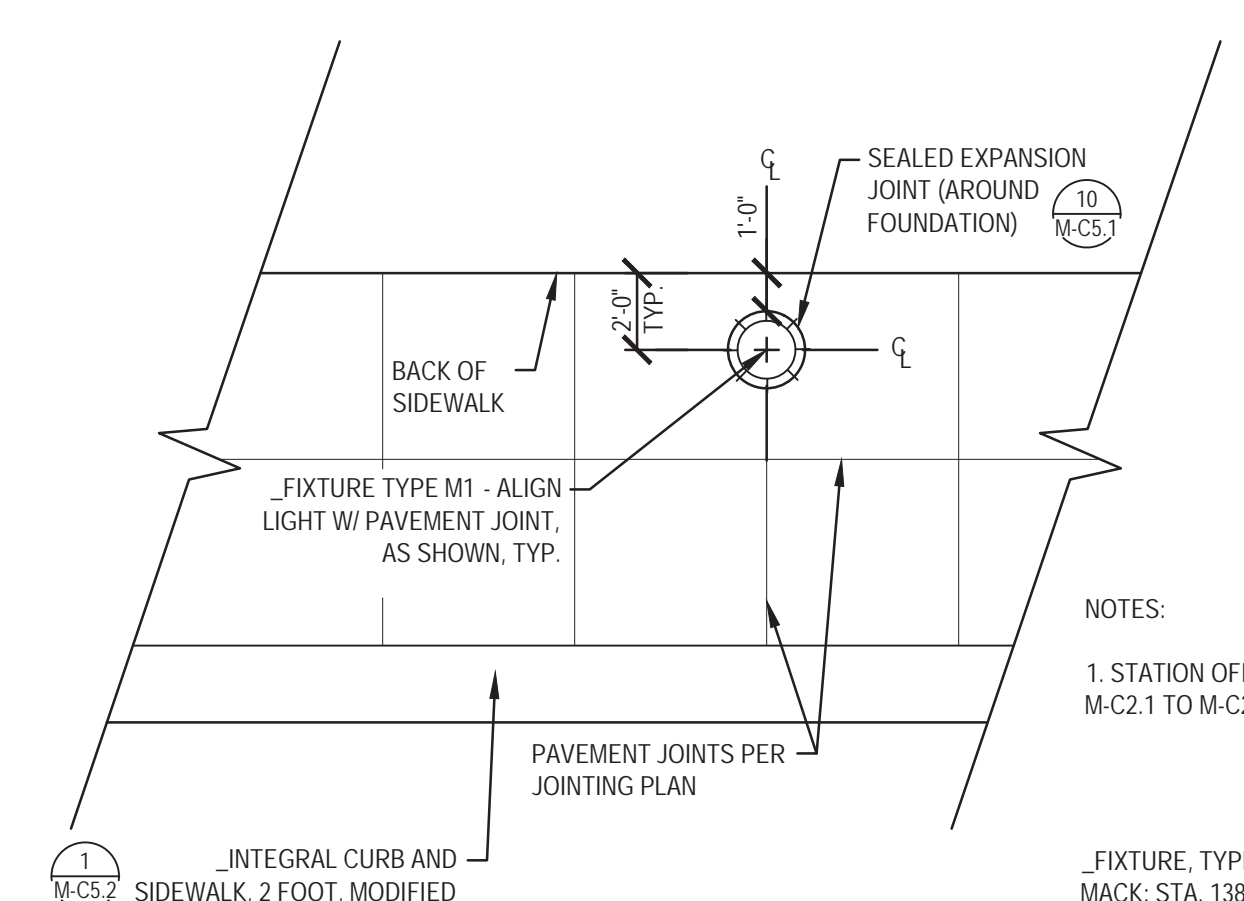
2 WAYFINDING COLUMN LOCATION  
PLAN 1"=2'



3 FIXTURE, TYPE M1 - LOCATION BEHIND WALK  
PLAN NTS



4 FIXTURE, TYPE M2/ RELOCATE EX POST TOP FIXTURE - LOCATION IN SIDEWALK  
PLAN NTS



5 FIXTURE, TYPE M1 - LOCATION IN SIDEWALK  
PLAN NTS

Midtown Loop Phase IV

Midtown Loop Detroit, Michigan



Owners:



City of Detroit



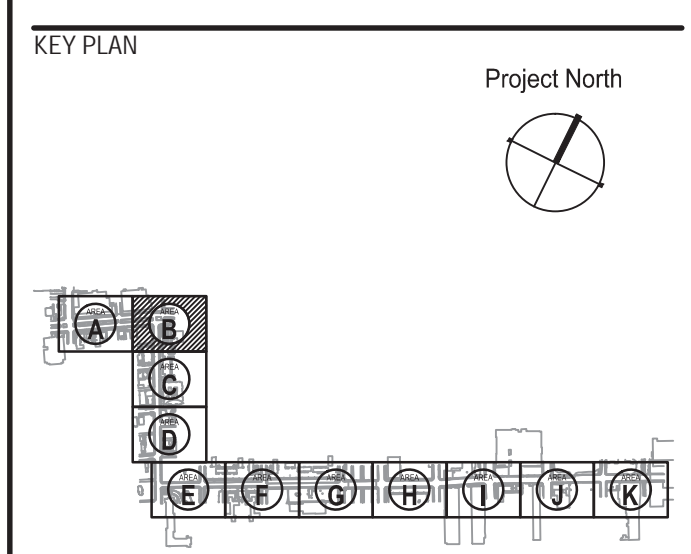
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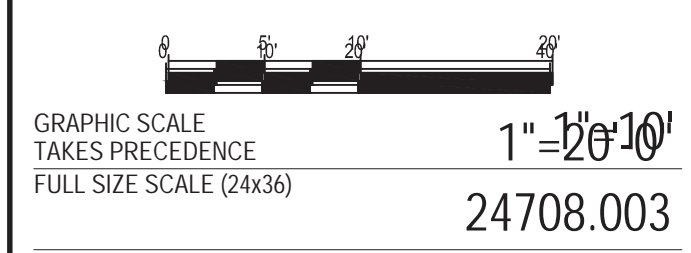
201 DEPOT STREET  
SECOND FLOOR  
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734.662.4457  
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ISSUED FOR	REV	DATE
BIDDING DOCUMENTS	5	MAY 21, 2013
BIDDING DOCUMENTS	4	MAY 02, 2013
100% CONSTRUCTION DOCUMENTS	3	APR 01, 2013
GRADE INSPECTION	2	JAN 30, 2013
80% CONSTRUCTION DOCUMENTS	1	JAN 07, 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05, 2012

SEALS AND SIGNATURES



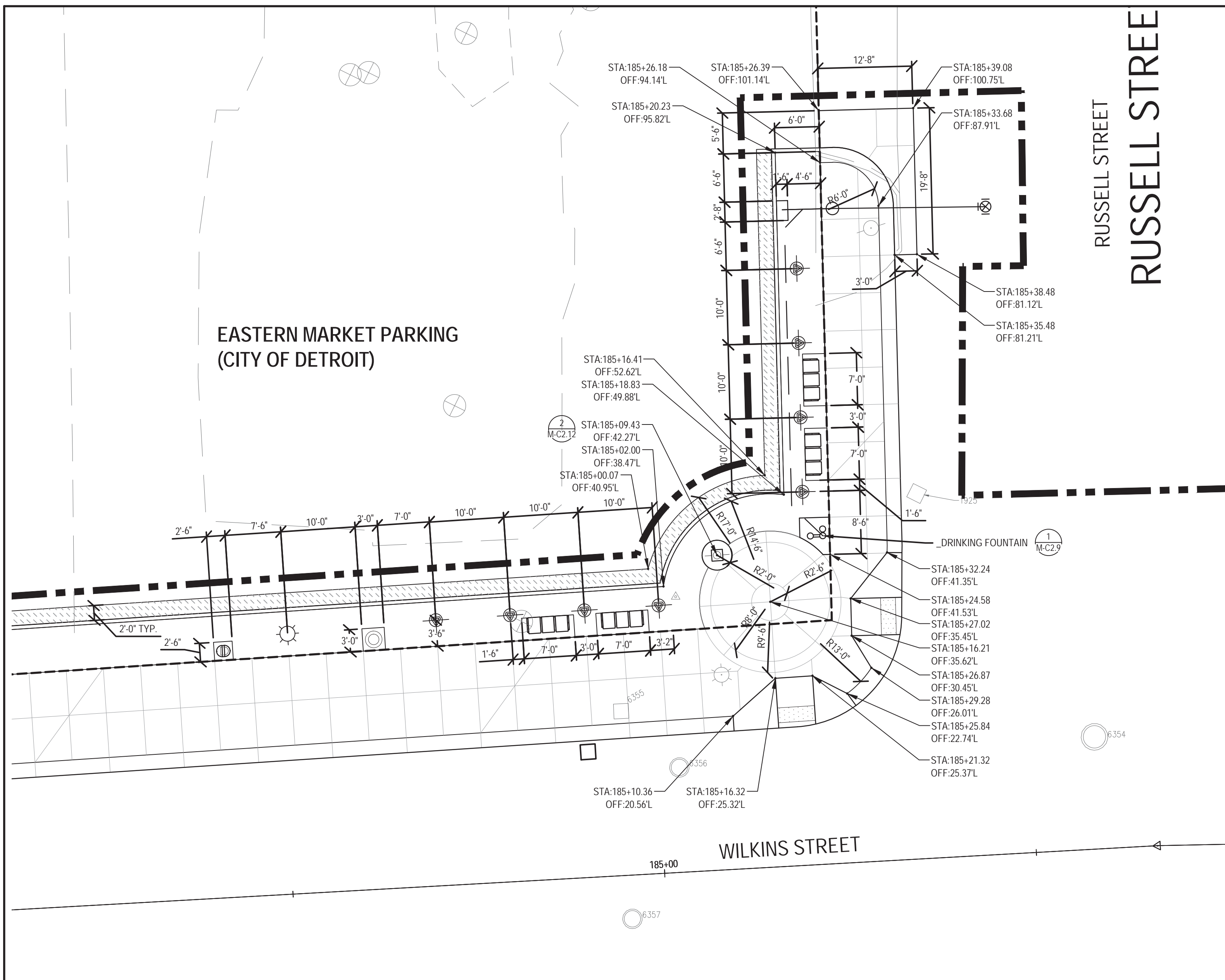
DRAWING TITLE  
CORNER ENLARGEMENT - MACK AND BRUSH



PROJECT NUMBER  
**M-C2.12**  
DRAWING NUMBER  
265 of 497

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RUSSELL STREET  
RUSSELL STREET

EASTERN MARKET PARKING  
(CITY OF DETROIT)

WILKINS STREET

1 CORNER ENLARGEMENT - WILKINS AND RUSSELL  
PLAN

1"=10'

MIDTOWN LOOP KEY NOTES AND LEGEND			
LAYOUT PLAN KEY NOTES AND LEGEND			
	CONSTRUCTION LIMIT LINE		_CURB, CONC. SEPARATE, 6 INCH, MODIFIED (2 M-C5.7)
	RIGHT - OF - WAY LINE		_WAYFINDING COLUMN, FOUNDATION (1 M-C5.5)
	MATCH LINE		_FIXTURE TYPE M1 (REFER TO ELECTRICAL PLANS)
	HORIZONTAL ALIGNMENT		_FIXTURE TYPE M2, PLD (REFER TO ELECTRICAL PLANS)
	STATION AND OFFSET POINT		_FIXTURE TYPE M3 (REFER TO ELECTRICAL PLANS)
	ADJACENT PROJECT		_FIXTURE TYPE M2, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)
	AGGREGATE SURFACE CSE		_STREET LIGHT, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)
	_SIDEWALK RAMP, ADA, MODIFIED (R-28-H)		BACK OF PROPOSED SIDEWALK TO ALIGN WITH EXISTING SIDEWALK
	_DETECTABLE WARNING SURFACE TILE, MODIFIED (R-28-H)		_CONTROL CABINET (REFER TO ELECTRICAL PLANS)
	_BENCH, TYPE M		CONCRETE PADS FOR DOOR ACCESS SHALL BE A MINIMUM OF 6' WIDER THAN DOOR ON EITHER SIDE
	_BIKE RACK, TYPE M		
	_DOG LITTER RECEPTACLE, TYPE M		
	_DRINKING FOUNTAIN		
	_TRASH RECEPTACLE, TYPE M		
	_INTEGRAL CURB AND SIDEWALK, 2 FOOT, MODIFIED		

NOTE:  
1. REFER TO DRAWING G0.5 FOR LAYOUT NOTES.

Midtown Loop  
Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



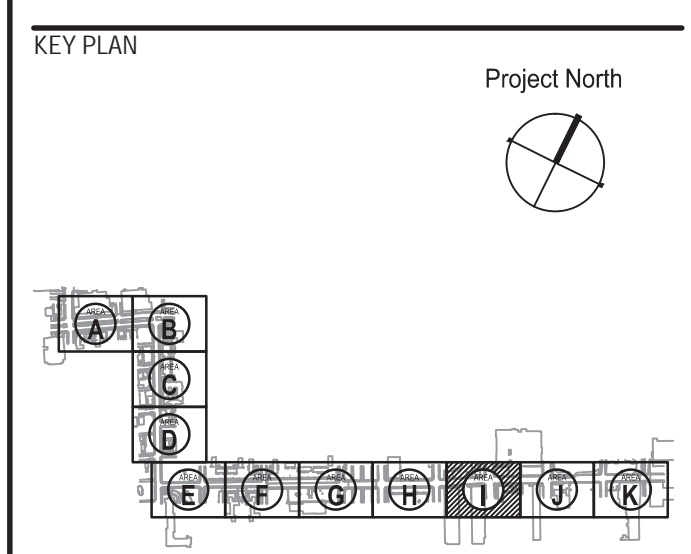
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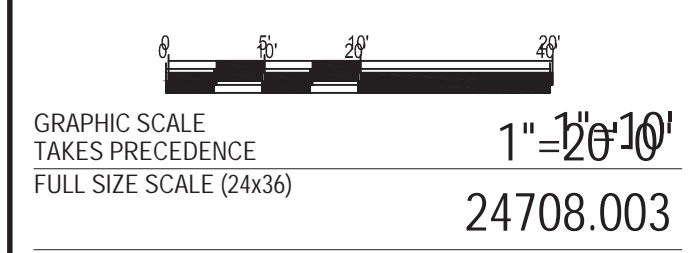
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SEALS AND SIGNATURES



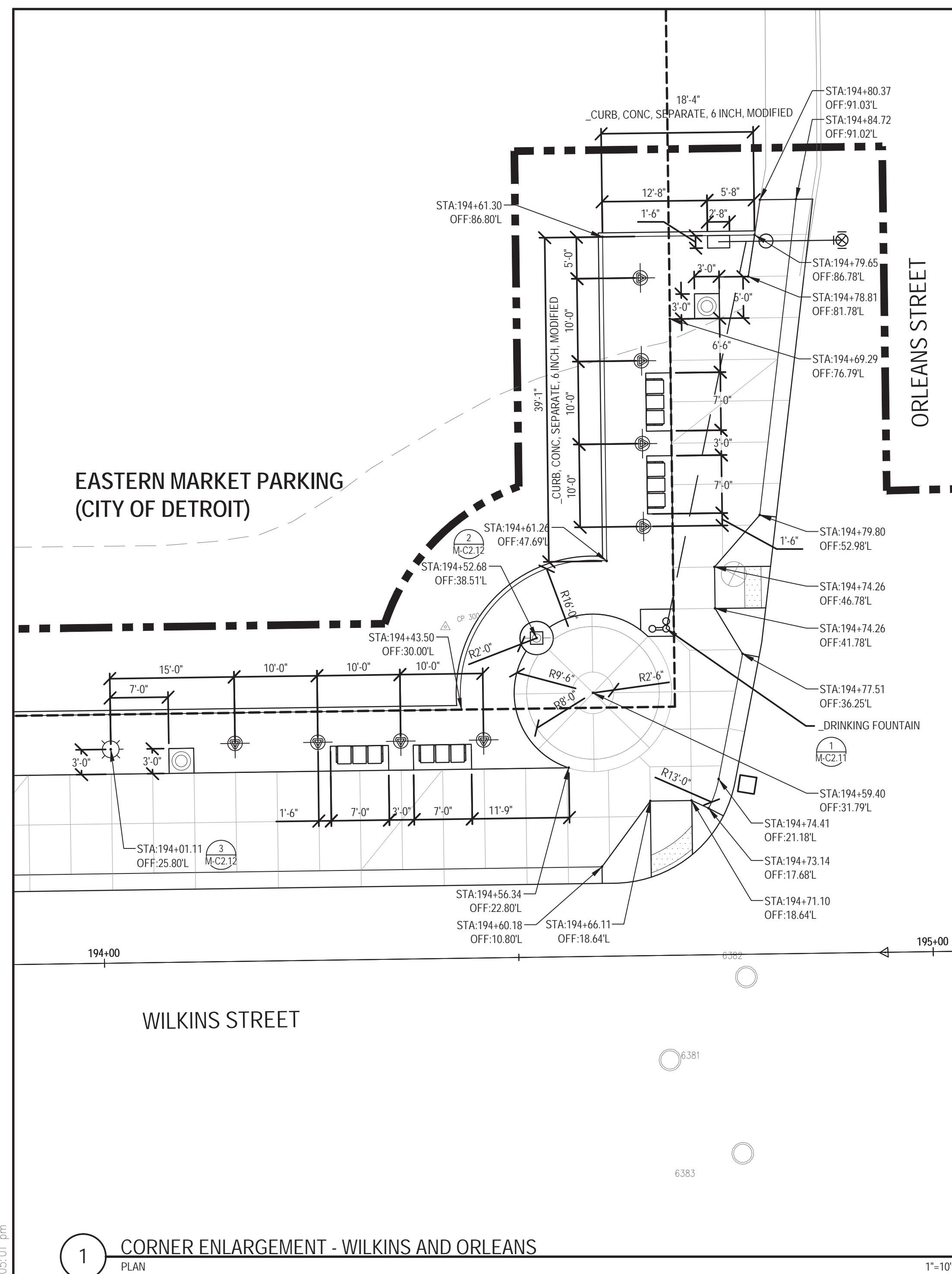
DRAWING TITLE  
CORNER ENLARGEMENT  
- WILKINS AND RUSSELL



PROJECT NUMBER  
M-C.2.13  
DRAWING NUMBER  
266 of 497



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1 CORNER ENLARGEMENT - WILKINS AND ORLEANS  
PLAN

1"=10'

MIDTOWN LOOP KEY NOTES AND LEGEND

LAYOUT PLAN KEY NOTES AND LEGEND			
	CONSTRUCTION LIMIT LINE		_CURB, CONC. SEPARATE, 6 INCH, MODIFIED (2) M-C5.7
	RIGHT - OF - WAY LINE		_WAYFINDING COLUMN, FOUNDATION (1) M-C5.5
	MATCH LINE		_FIXTURE TYPE M1 (REFER TO ELECTRICAL PLANS)
	HORIZONTAL ALIGNMENT		_FIXTURE TYPE M2, PLD (REFER TO ELECTRICAL PLANS)
	STATION AND OFFSET POINT		_FIXTURE TYPE M3 (REFER TO ELECTRICAL PLANS)
	ADJACENT PROJECT		_FIXTURE TYPE M2, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)
	AGGREGATE SURFACE CSE		_STREET LIGHT, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)
	_SIDEWALK RAMP, ADA, MODIFIED (R-28-H)		BACK OF PROPOSED SIDEWALK TO ALIGN WITH EXISTING SIDEWALK
	_DETECTABLE WARNING SURFACE TILE, MODIFIED (R-28-H)		_CONTROL CABINET (REFER TO ELECTRICAL PLANS)
	_BENCH, TYPE M (1) M-C5.4		CONCRETE PADS FOR DOOR ACCESS SHALL BE A MINIMUM OF 6' WIDER THAN DOOR ON EITHER SIDE (3)
	_BIKE RACK, TYPE M (2) M-C5.5		
	_DOG LITTER RECEPTACLE, TYPE M (1) M-C5.5		
	_DRINKING FOUNTAIN (4) M-C5.5		
	_TRASH RECEPTACLE, TYPE M (3) M-C5.4		
	_INTEGRAL CURB AND SIDEWALK, 2 FOOT, MODIFIED (1) M-C5.7		

NOTE:  
1. REFER TO DRAWING G0.5 FOR LAYOUT NOTES.

Midtown Loop  
Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



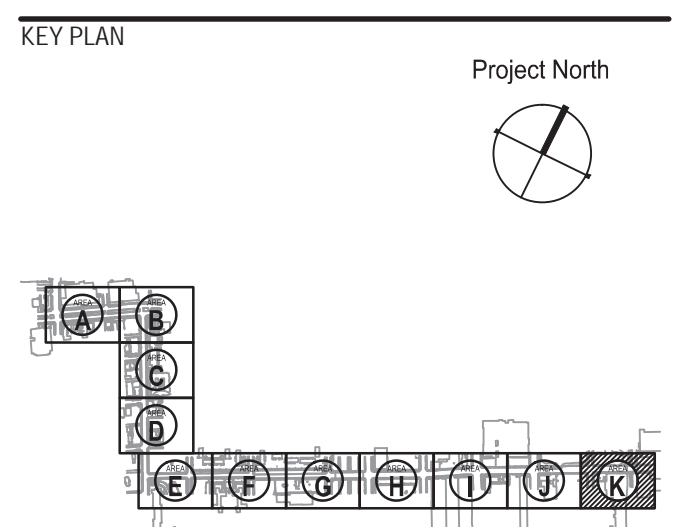
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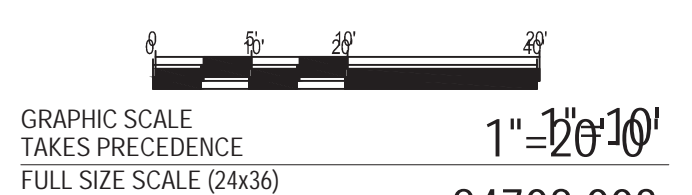
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SEALS AND SIGNATURES



DRAWING TITLE  
CORNER ENLARGEMENT  
- WILKINS AND ORLEANS



PROJECT NUMBER  
M-C2.14

DRAWING NUMBER  
267 of 497



# Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit

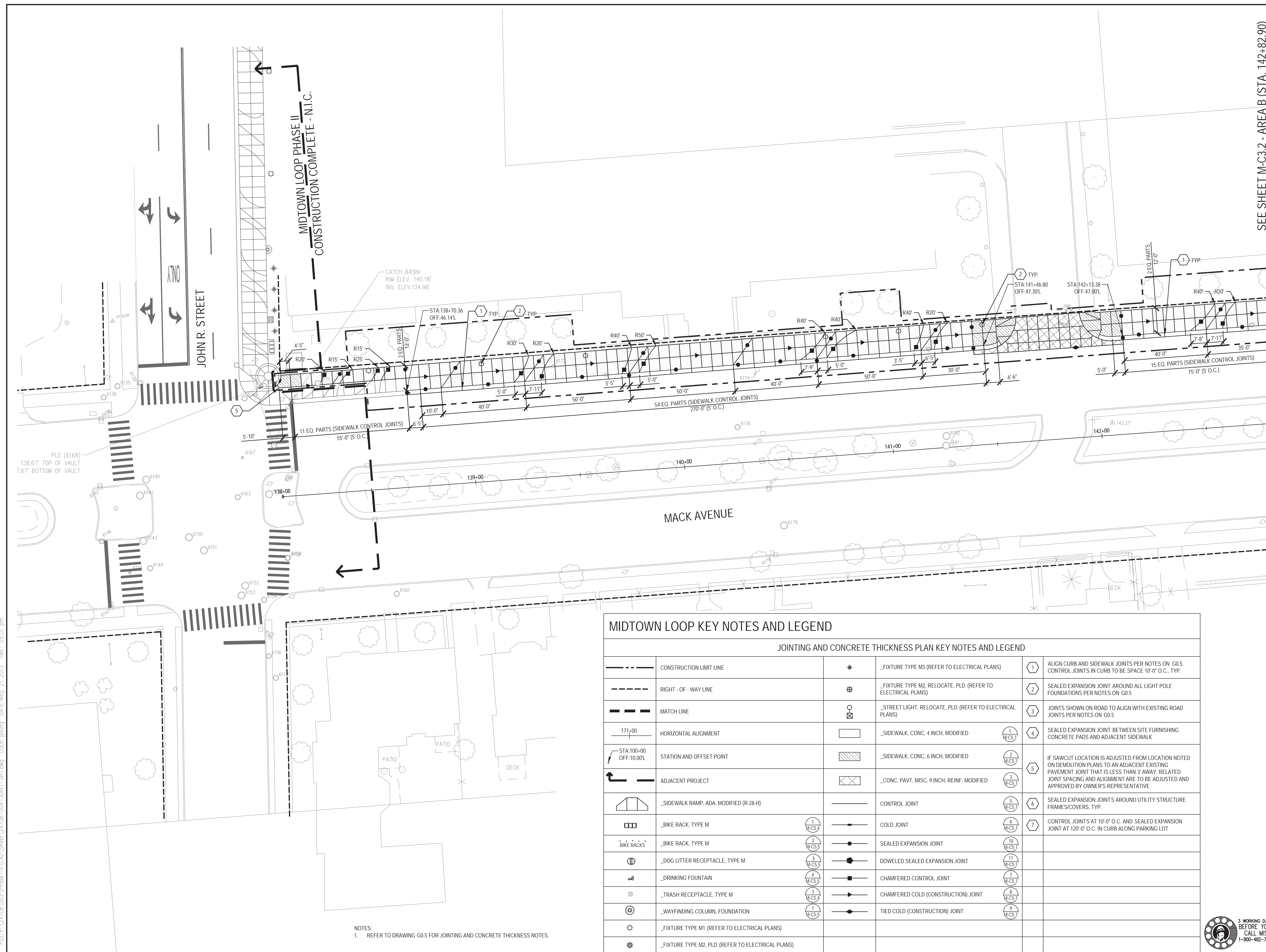


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SEE SHEET M-C3.2 - AREA B (STA. 142+82.90)



MIDTOWN LOOP KEY NOTES AND LEGEND			
JOINTING AND CONCRETE THICKNESS PLAN KEY NOTES AND LEGEND			
	CONSTRUCTION LIMIT LINE		_FIXTURE TYPE M3 (REFER TO ELECTRICAL PLANS)
	RIGHT - OF - WAY LINE		_FIXTURE TYPE M2, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)
	MATCH LINE		_STREET LIGHT, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)
	HORIZONTAL ALIGNMENT		_SIDEWALK, CONC, 4 INCH, MODIFIED
	STATION AND OFFSET POINT		_SIDEWALK, CONC, 6 INCH, MODIFIED
	ADJACENT PROJECT		_CONC, PAVT, MISC, 9 INCH, REINF, MODIFIED
	_SIDEWALK RAMP, ADA, MODIFIED (R-28+H)		CONTROL JOINT
	_BIKE RACK, TYPE M		COLD JOINT
	_BIKE RACK, TYPE M		SEALED EXPANSION JOINT
	_DOG LITTER RECEPTACLE, TYPE M		DOWELED SEALED EXPANSION JOINT
	_DRINKING FOUNTAIN		CHAMFERED CONTROL JOINT
	_TRASH RECEPTACLE, TYPE M		CHAMFERED COLD (CONSTRUCTION) JOINT
	_WAYFINDING COLUMN, FOUNDATION		TIED COLD (CONSTRUCTION) JOINT
	_FIXTURE TYPE M1 (REFER TO ELECTRICAL PLANS)		
	_FIXTURE TYPE M2, PLD (REFER TO ELECTRICAL PLANS)		

NOTES:  
1. REFER TO DRAWING G0.5 FOR JOINTING AND CONCRETE THICKNESS NOTES.

ISSUED FOR	REV	DATE
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80% CONSTRUCTION DOCUMENTS	1	JAN 07, 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05, 2012

SEALS AND SIGNATURES

KEY PLAN

Project North

DRAWING TITLE

### JOINTING AND CONCRETE THICKNESS PLAN - AREA A

GRAPHIC SCALE  
TAKES PRECEDENCE  
FULL SIZE SCALE (24x36)  
1" = 20'-0"  
24708.003

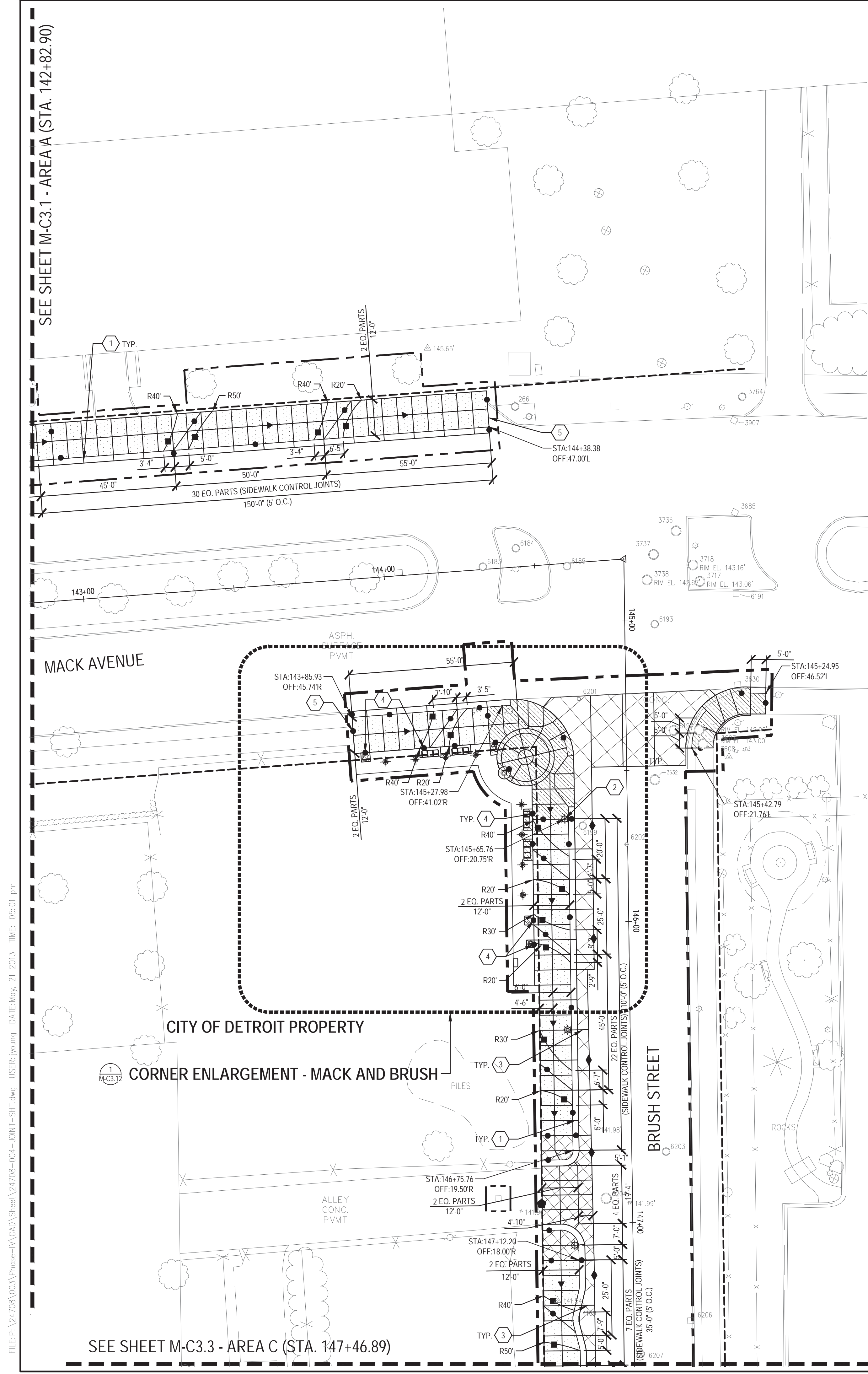
PROJECT NUMBER

# M-C3.1

DRAWING NUMBER

268 of 497

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SEE SHEET M-C3.1 - AREA A (STA. 142+82.90)

SEE SHEET M-C3.3 - AREA C (STA. 147+46.89)

### MIDTOWN LOOP KEY NOTES AND LEGEND

JOINTING AND CONCRETE THICKNESS PLAN KEY NOTES AND LEGEND					
	CONSTRUCTION LIMIT LINE		_FIXTURE TYPE M3 (REFER TO ELECTRICAL PLANS)		ALIGN CURB AND SIDEWALK JOINTS PER NOTES ON G0.5. CONTROL JOINTS IN CURB TO BE SPACE 10'-0" O.C., TYP.
	RIGHT - OF - WAY LINE		_FIXTURE TYPE M2, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)		SEALED EXPANSION JOINT AROUND ALL LIGHT POLE FOUNDATIONS PER NOTES ON G0.5
	MATCH LINE		_STREET LIGHT, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)		JOINTS SHOWN ON ROAD TO ALIGN WITH EXISTING ROAD JOINTS PER NOTES ON G0.5
	HORIZONTAL ALIGNMENT		_SIDEWALK, CONC, 4 INCH, MODIFIED		SEALED EXPANSION JOINT BETWEEN SITE FURNISHING CONCRETE PADS AND ADJACENT SIDEWALK
	STATION AND OFFSET POINT		_SIDEWALK, CONC, 6 INCH, MODIFIED		IF SAWCUT LOCATION IS ADJUSTED FROM LOCATION NOTED ON DEMOLITION PLANS TO AN ADJACENT EXISTING PAVEMENT JOINT THAT IS LESS THAN 3' AWAY, RELATED JOINT SPACING AND ALIGNMENT ARE TO BE ADJUSTED AND APPROVED BY OWNER'S REPRESENTATIVE
	ADJACENT PROJECT		_CONC. PAVT, MISC, 9 INCH, REINF, MODIFIED		SEALED EXPANSION JOINTS AROUND UTILITY STRUCTURE FRAMES/COVERS, TYP.
	_SIDEWALK RAMP, ADA, MODIFIED (R-28-H)		CONTROL JOINT		CONTROL JOINTS AT 10'-0" O.C. AND SEALED EXPANSION JOINT AT 120'-0" O.C. IN CURB ALONG PARKING LOT
	_BIKE RACK, TYPE M		COLD JOINT		
	_BIKE RACK, TYPE M		SEALED EXPANSION JOINT		
	_DOG LITTER RECEPTACLE, TYPE M		DOWELED SEALED EXPANSION JOINT		
	_DRINKING FOUNTAIN		CHAMFERED CONTROL JOINT		
	_TRASH RECEPTACLE, TYPE M		CHAMFERED COLD (CONSTRUCTION) JOINT		
	_WAYFINDING COLUMN, FOUNDATION		TIED COLD (CONSTRUCTION) JOINT		
	_FIXTURE TYPE M1 (REFER TO ELECTRICAL PLANS)				
	_FIXTURE TYPE M2, PLD (REFER TO ELECTRICAL PLANS)				

NOTES:  
1. REFER TO DRAWING G0.5 FOR JOINTING AND CONCRETE THICKNESS NOTES.

### Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



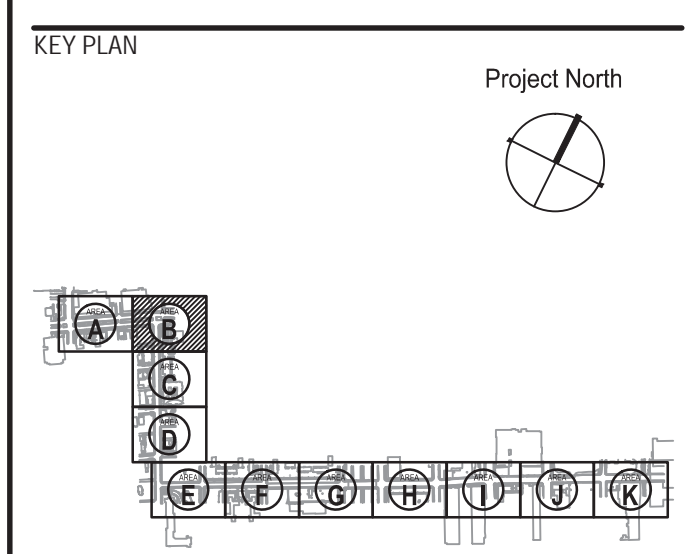
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### SMITHGROUP JJR

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100% CONSTRUCTION DOCUMENTS	3	APR 01, 2013
GRADE INSPECTION	2	JAN 30, 2013
80% CONSTRUCTION DOCUMENTS	1	JAN 07, 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05, 2012

SEALS AND SIGNATURES



DRAWING TITLE  
**JOINTING AND CONCRETE THICKNESS PLAN - AREA B**

GRAPHIC SCALE  
TAKES PRECEDENCE  
FULL SIZE SCALE (24x36)  
1" = 20'-0"  
24708.003

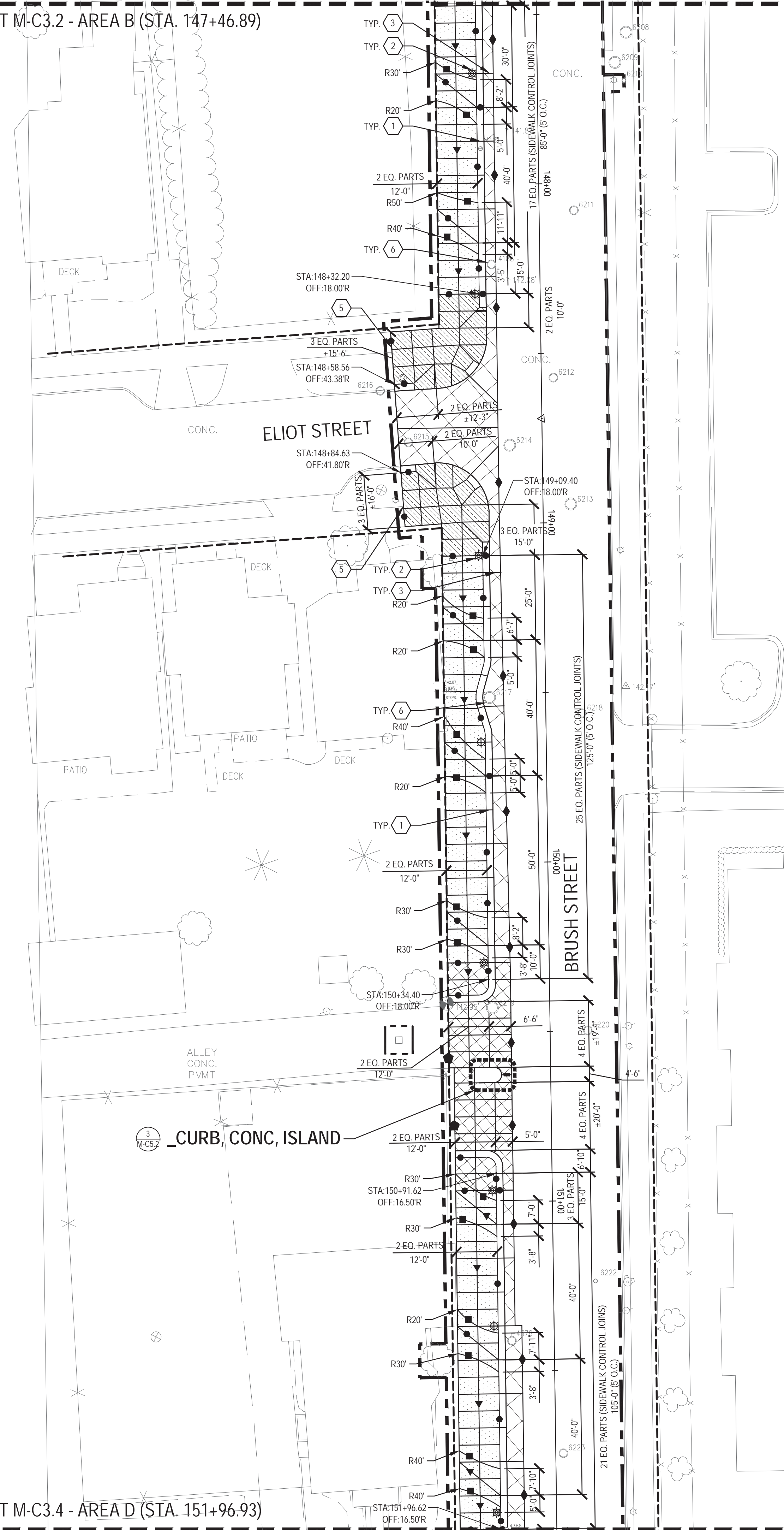
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**M-C3.2**

DRAWING NUMBER  
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SEE SHEET M-C3.2 - AREA B (STA. 147+46.89)



MIDTOWN LOOP KEY NOTES AND LEGEND

JOINTING AND CONCRETE THICKNESS PLAN KEY NOTES AND LEGEND			
	CONSTRUCTION LIMIT LINE		_FIXTURE TYPE M3 (REFER TO ELECTRICAL PLANS)
	RIGHT - OF - WAY LINE		_FIXTURE TYPE M2, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)
	MATCH LINE		_STREET LIGHT, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)
	HORIZONTAL ALIGNMENT		_SIDEWALK, CONC, 4 INCH, MODIFIED
	STATION AND OFFSET POINT		_SIDEWALK, CONC, 6 INCH, MODIFIED
	ADJACENT PROJECT		_CONC, PAVT, MISC, 9 INCH, REINF, MODIFIED
	_SIDEWALK RAMP, ADA, MODIFIED (R-28-H)		CONTROL JOINT
	_BIKE RACK, TYPE M		COLD JOINT
	_BIKE RACKS		SEALED EXPANSION JOINT
	_DOG LITTER RECEPTACLE, TYPE M		DOWELED SEALED EXPANSION JOINT
	_DRINKING FOUNTAIN		CHAMFERED CONTROL JOINT
	_TRASH RECEPTACLE, TYPE M		CHAMFERED COLD (CONSTRUCTION) JOINT
	_WAYFINDING COLUMN, FOUNDATION		TIED COLD (CONSTRUCTION) JOINT
	_FIXTURE TYPE M1 (REFER TO ELECTRICAL PLANS)		
	_FIXTURE TYPE M2, PLD (REFER TO ELECTRICAL PLANS)		

NOTES:  
1. REFER TO DRAWING G0.5 FOR JOINTING AND CONCRETE THICKNESS NOTES.

Midtown Loop  
Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



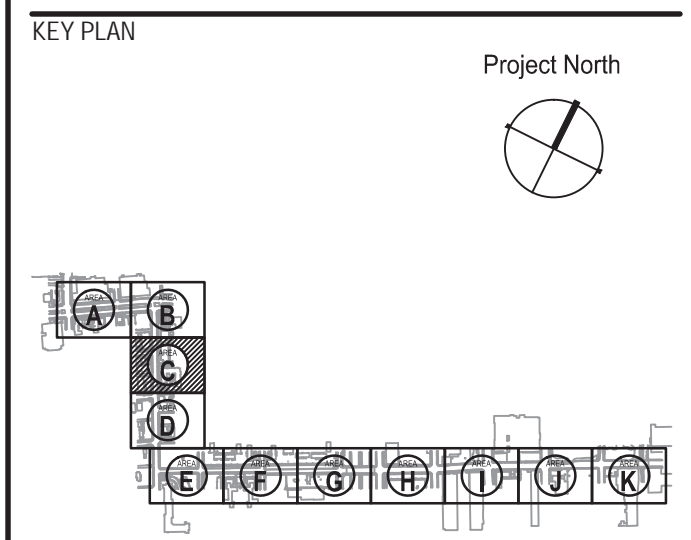
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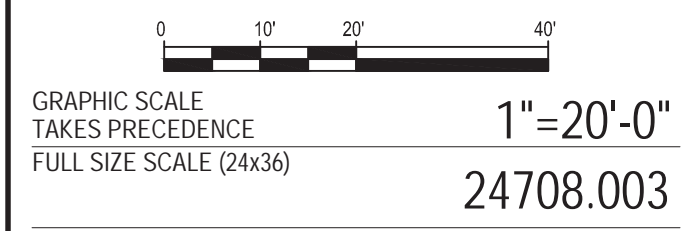
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50% CONSTRUCTION DOCUMENTS	0	NOV 05, 2012

SEALS AND SIGNATURES



DRAWING TITLE  
JOINTING AND  
CONCRETE THICKNESS  
PLAN - AREA C

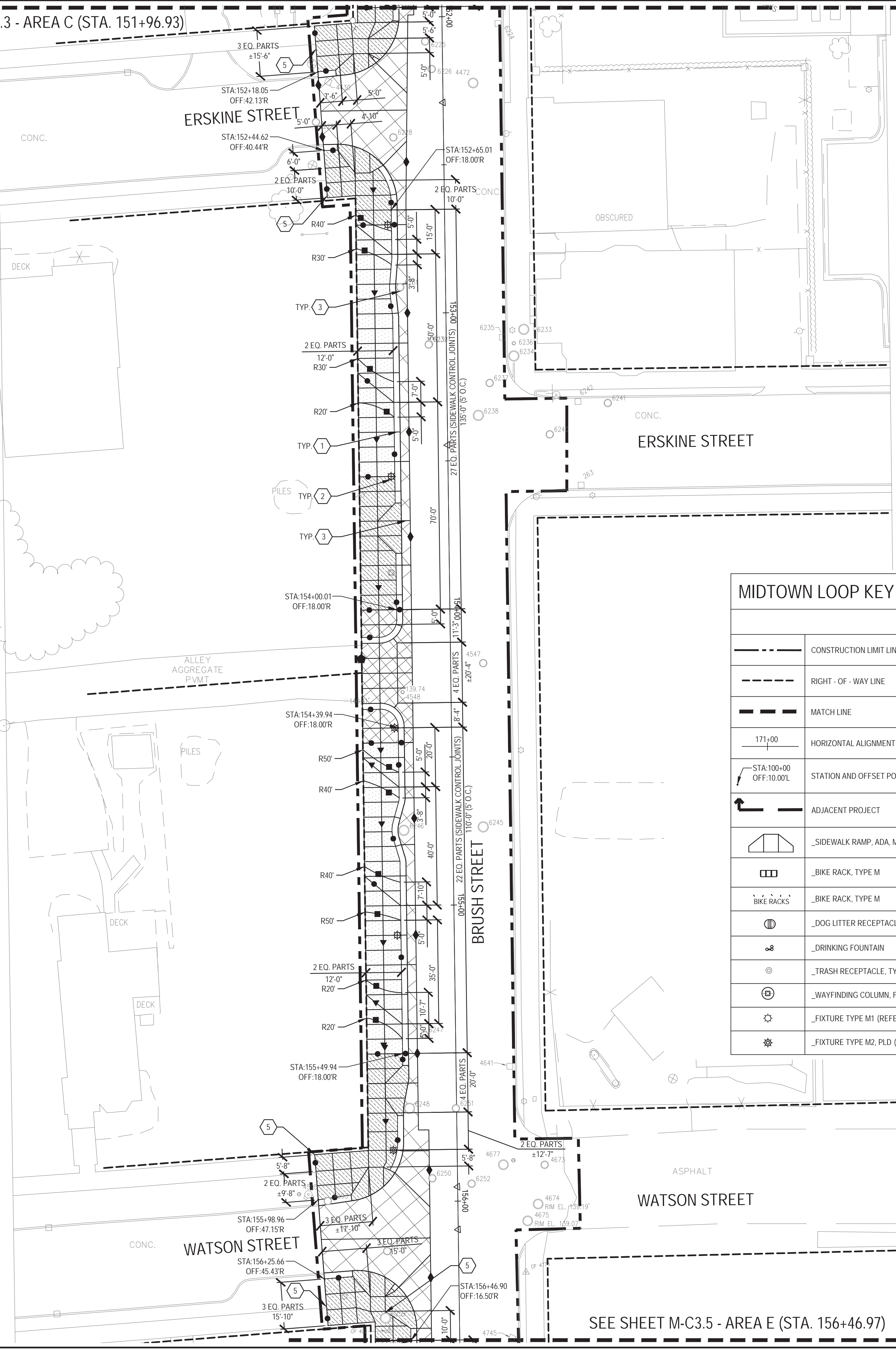


PROJECT NUMBER  
**M-C3.3**  
DRAWING NUMBER  
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SEE SHEET M-C3.3 - AREA C (STA. 151+96.93)



MIDTOWN LOOP KEY NOTES AND LEGEND			
JOINTING AND CONCRETE THICKNESS PLAN KEY NOTES AND LEGEND			
	CONSTRUCTION LIMIT LINE		_FIXTURE TYPE M3 (REFER TO ELECTRICAL PLANS)
	RIGHT - OF - WAY LINE		_FIXTURE TYPE M2, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)
	MATCH LINE		_STREET LIGHT, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)
	HORIZONTAL ALIGNMENT		_SIDEWALK, CONC. 4 INCH, MODIFIED
	STATION AND OFFSET POINT		_SIDEWALK, CONC. 6 INCH, MODIFIED
	ADJACENT PROJECT		_CONC. PAVT. MISC. 9 INCH. REINF. MODIFIED
	_SIDEWALK RAMP, ADA, MODIFIED (R-28-H)		CONTROL JOINT
	_BIKE RACK, TYPE M		COLD JOINT
	_BIKE RACK, TYPE M		SEALED EXPANSION JOINT
	_DOG LITTER RECEPTACLE, TYPE M		DOWELED SEALED EXPANSION JOINT
	_DRINKING FOUNTAIN		CHAMFERED CONTROL JOINT
	_TRASH RECEPTACLE, TYPE M		CHAMFERED COLD (CONSTRUCTION) JOINT
	_WAYFINDING COLUMN, FOUNDATION		TIED COLD (CONSTRUCTION) JOINT
	_FIXTURE TYPE M1 (REFER TO ELECTRICAL PLANS)		
	_FIXTURE TYPE M2, PLD (REFER TO ELECTRICAL PLANS)		

NOTES:  
1. REFER TO DRAWING G0.5 FOR JOINTING AND CONCRETE THICKNESS NOTES.

# Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



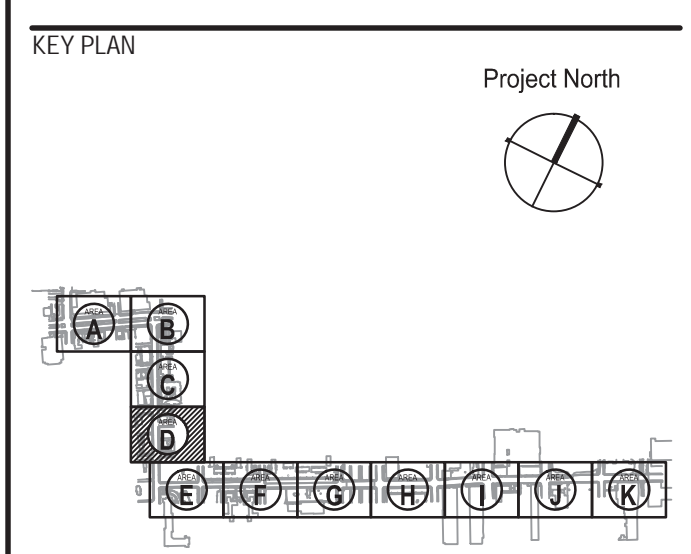
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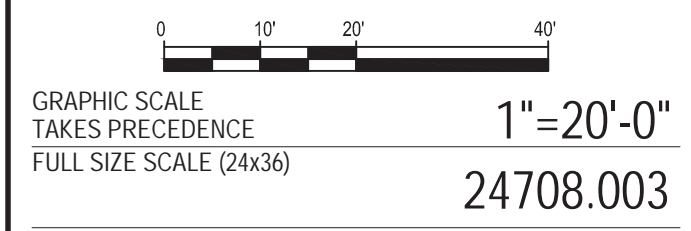
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SEALS AND SIGNATURES



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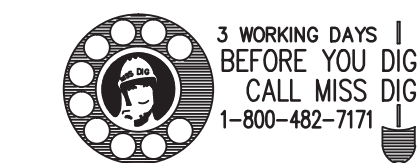
## JOINTING AND CONCRETE THICKNESS PLAN - AREA D



PROJECT NUMBER  
**M-C3.4**

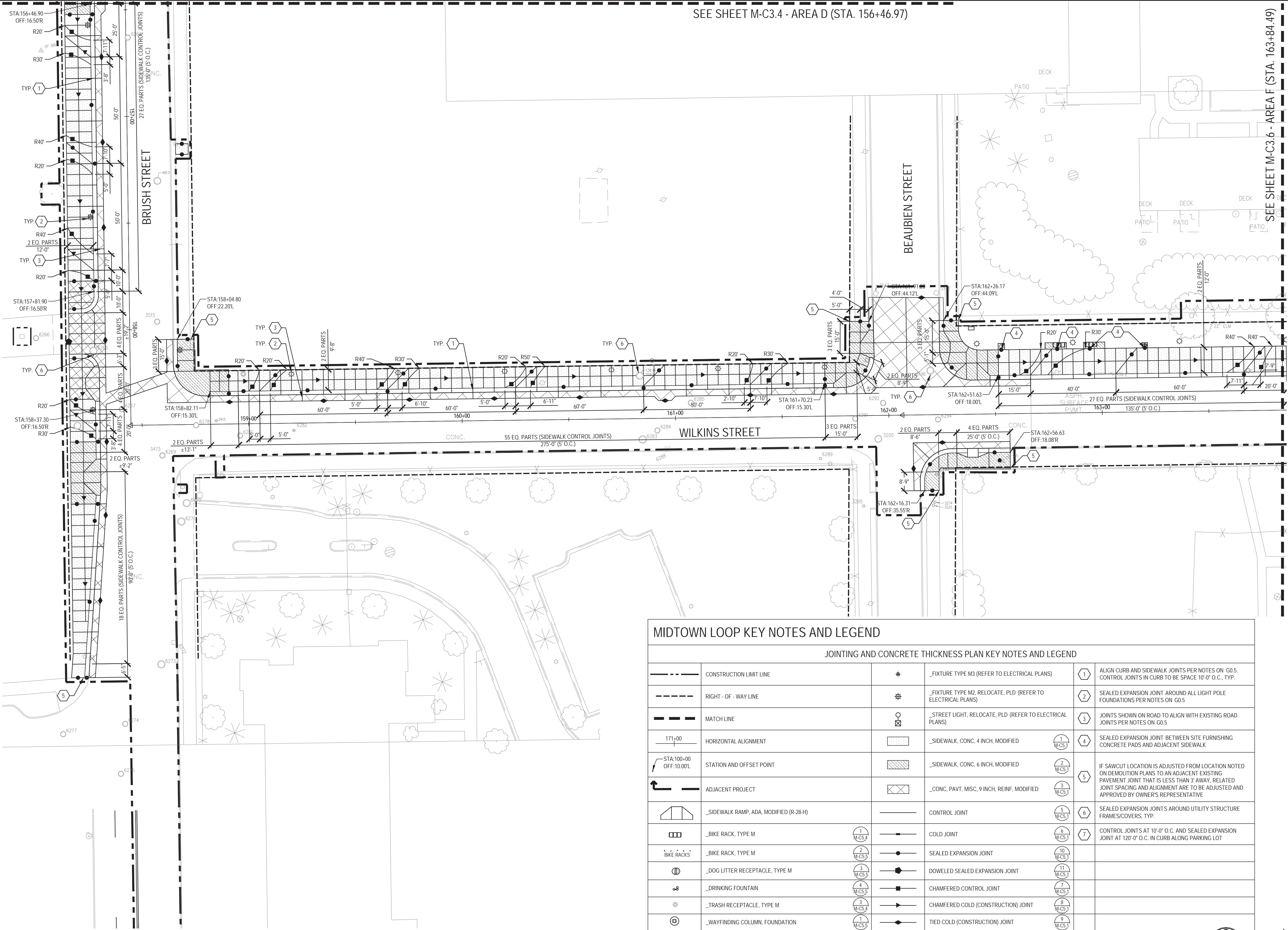
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SEE SHEET M-C3.4 - AREA D (STA. 156+46.97)

SEE SHEET M-C3.6 - AREA F (STA. 163+84.49)



MIDTOWN LOOP KEY NOTES AND LEGEND			
JOINTING AND CONCRETE THICKNESS PLAN KEY NOTES AND LEGEND			
	CONSTRUCTION LIMIT LINE		_FIXTURE TYPE M3 (REFER TO ELECTRICAL PLANS)
	RIGHT - OF - WAY LINE		_FIXTURE TYPE M2, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)
	MATCH LINE		_STREET LIGHT, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)
	HORIZONTAL ALIGNMENT		_SIDEWALK, CONC, 4 INCH, MODIFIED
	STATION AND OFFSET POINT		_SIDEWALK, CONC, 6 INCH, MODIFIED
	ADJACENT PROJECT		_CONC, PAVT, MISC, 9 INCH, REINF, MODIFIED
	_SIDEWALK RAMP, ADA, MODIFIED (R-28-H)		CONTROL JOINT
	_BIKE RACK, TYPE M		COLD JOINT
	_DOG LITTER RECEPTACLE, TYPE M		SEALED EXPANSION JOINT
	_DRINKING FOUNTAIN		DOWELED SEALED EXPANSION JOINT
	_TRASH RECEPTACLE, TYPE M		CHAMFERED CONTROL JOINT
	_WAYFINDING COLUMN, FOUNDATION		CHAMFERED COLD (CONSTRUCTION) JOINT
	_FIXTURE TYPE M1 (REFER TO ELECTRICAL PLANS)		TIED COLD (CONSTRUCTION) JOINT
	_FIXTURE TYPE M2, PLD (REFER TO ELECTRICAL PLANS)		

NOTES:  
1. REFER TO DRAWING G0.5 FOR JOINTING AND CONCRETE THICKNESS NOTES.

Midtown Loop  
Phase IV  
Midtown Loop  
Detroit, Michigan



Midtown Detroit, Inc.

**SMITHGROUP JJR**

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ISSUED FOR	REV	DATE
BIDDING DOCUMENTS	5	MAY 21, 2013
BIDDING DOCUMENTS	4	MAY 02, 2013
100% CONSTRUCTION DOCUMENTS	3	APR 01, 2013
GRADE INSPECTION	2	JAN 30, 2013
80% CONSTRUCTION DOCUMENTS	1	JAN 07, 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05, 2012

SEALS AND SIGNATURES

KEY PLAN

Project North

DRAWING TITLE  
**JOINTING AND CONCRETE THICKNESS PLAN - AREA E**

GRAPHIC SCALE TAKES PRECEDENCE  
FULL SIZE SCALE (24x36)  
1"=20'-0"  
24708.003

PROJECT NUMBER  
**M-C3.5**

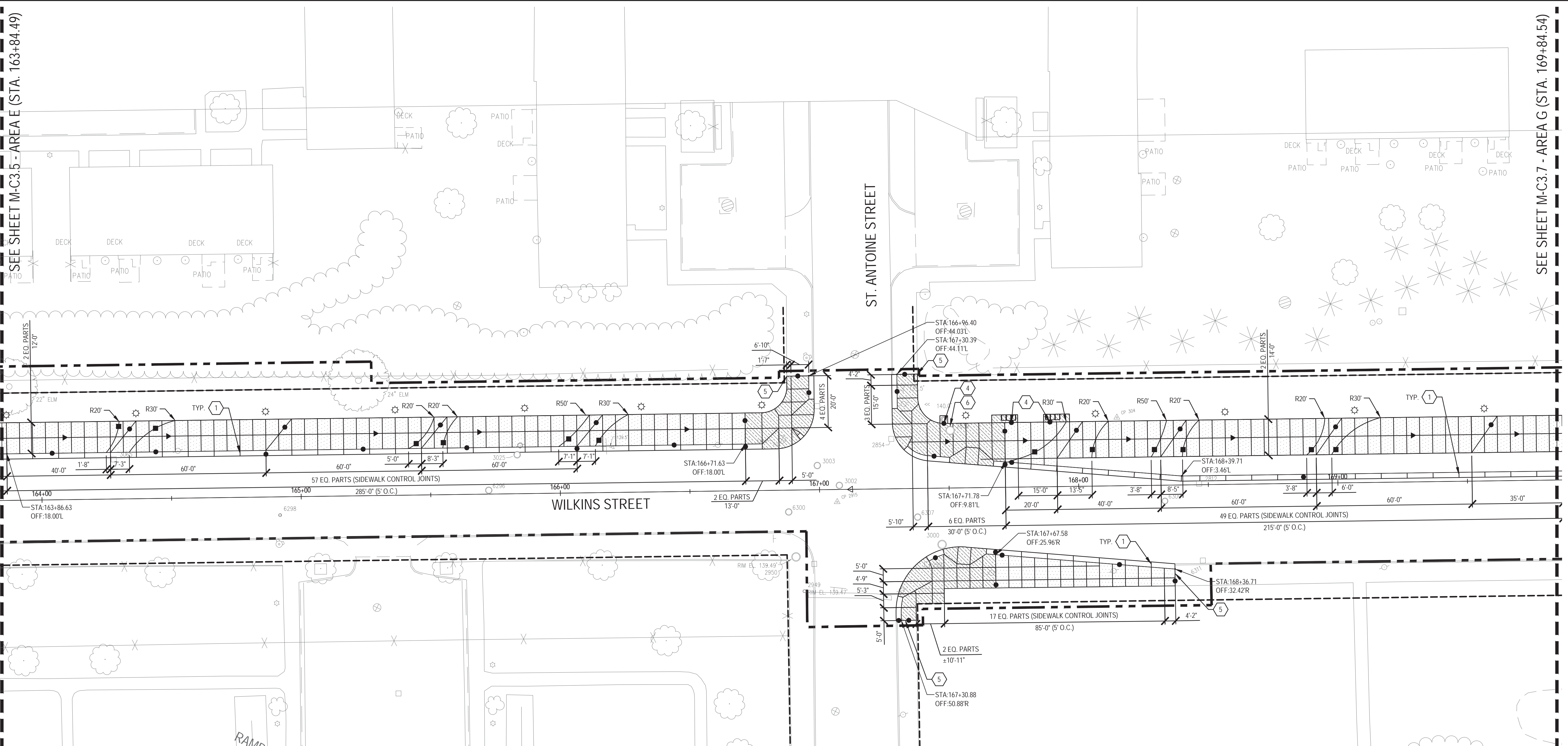
DRAWING NUMBER  
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SEE SHEET M-C3.5 - AREA E (STA. 163+84.49)

SEE SHEET M-C3.7 - AREA G (STA. 169+84.54)



MIDTOWN LOOP KEY NOTES AND LEGEND			
JOINTING AND CONCRETE THICKNESS PLAN KEY NOTES AND LEGEND			
	CONSTRUCTION LIMIT LINE		_FIXTURE TYPE M3 (REFER TO ELECTRICAL PLANS)
	RIGHT - OF - WAY LINE		_FIXTURE TYPE M2, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)
	MATCH LINE		_STREET LIGHT, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)
	HORIZONTAL ALIGNMENT		_SIDEWALK, CONC, 4 INCH, MODIFIED
	STATION AND OFFSET POINT		_SIDEWALK, CONC, 6 INCH, MODIFIED
	ADJACENT PROJECT		_CONC. PAVT, MISC, 9 INCH, REINF, MODIFIED
	_SIDEWALK RAMP, ADA, MODIFIED (R-28-H)		CONTROL JOINT
	_BIKE RACK, TYPE M		COLD JOINT
	_BIKE RACK, TYPE M		SEALED EXPANSION JOINT
	_DOG LITTER RECEPTACLE, TYPE M		DOWELED SEALED EXPANSION JOINT
	_DRINKING FOUNTAIN		CHAMFERED CONTROL JOINT
	_TRASH RECEPTACLE, TYPE M		CHAMFERED COLD (CONSTRUCTION) JOINT
	_WAYFINDING COLUMN, FOUNDATION		TIED COLD (CONSTRUCTION) JOINT
	_FIXTURE TYPE M1 (REFER TO ELECTRICAL PLANS)		
	_FIXTURE TYPE M2, PLD (REFER TO ELECTRICAL PLANS)		

NOTES:  
1. REFER TO DRAWING G0.5 FOR JOINTING AND CONCRETE THICKNESS NOTES.

# Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



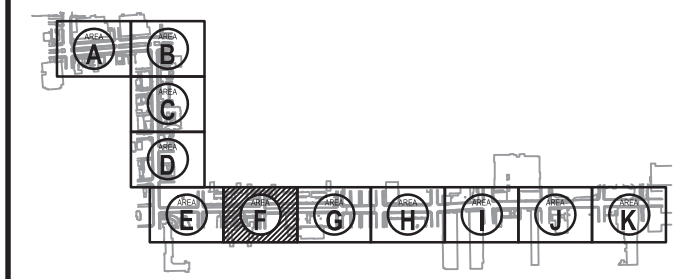
Midtown Detroit, Inc.

## SMITHGROUP JJR

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ISSUED FOR	REV	DATE
BIDDING DOCUMENTS	5	MAY 21, 2013
BIDDING DOCUMENTS	4	MAY 02, 2013
100% CONSTRUCTION DOCUMENTS	3	APR 01, 2013
GRADE INSPECTION	2	JAN 30, 2013
80% CONSTRUCTION DOCUMENTS	1	JAN 07, 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05, 2012

SEALS AND SIGNATURES



### DRAWING TITLE

## JOINTING AND CONCRETE THICKNESS PLAN - AREA F

PROJECT NUMBER  
**M-C3.6**

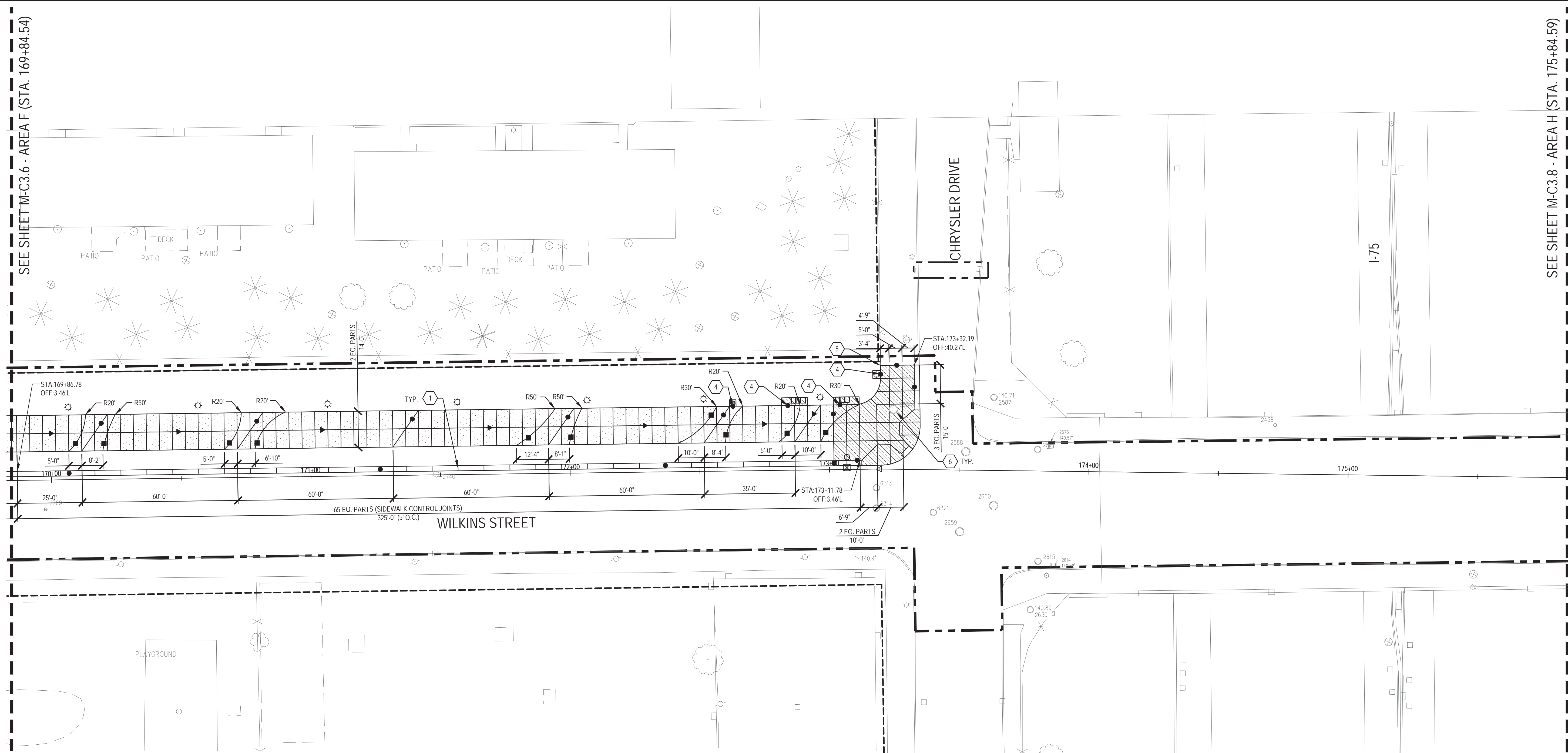
DRAWING NUMBER  
273 of 497



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SEE SHEET M-C3.6 - AREA F (STA. 169+84.54)

SEE SHEET M-C3.8 - AREA H (STA. 175+84.59)



# Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



**MIDTOWN**  
DETROIT, INC.

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50% CONSTRUCTION DOCUMENTS	0	NOV 05, 2012

SEALS AND SIGNATURES

KEY PLAN

Project North

## MIDTOWN LOOP KEY NOTES AND LEGEND

JOINTING AND CONCRETE THICKNESS PLAN KEY NOTES AND LEGEND					
	CONSTRUCTION LIMIT LINE		_FIXTURE TYPE M3 (REFER TO ELECTRICAL PLANS)	1	ALIGN CURB AND SIDEWALK JOINTS PER NOTES ON G0.5. CONTROL JOINTS IN CURB TO BE SPACE 10'-0" O.C., TYP.
	RIGHT - OF - WAY LINE		_FIXTURE TYPE M2, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)	2	SEALED EXPANSION JOINT AROUND ALL LIGHT POLE FOUNDATIONS PER NOTES ON G0.5
	MATCH LINE		_STREET LIGHT, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)	3	JOINTS SHOWN ON ROAD TO ALIGN WITH EXISTING ROAD JOINTS PER NOTES ON G0.5
	HORIZONTAL ALIGNMENT		_SIDEWALK, CONC, 4 INCH, MODIFIED	1	SEALED EXPANSION JOINT BETWEEN SITE FURNISHING CONCRETE PADS AND ADJACENT SIDEWALK
	STATION AND OFFSET POINT		_SIDEWALK, CONC, 6 INCH, MODIFIED	2	IF SAWCUT LOCATION IS ADJUSTED FROM LOCATION NOTED ON DEMOLITION PLANS TO AN ADJACENT EXISTING PAVEMENT JOINT THAT IS LESS THAN 3' AWAY, RELATED JOINT SPACING AND ALIGNMENT ARE TO BE ADJUSTED AND APPROVED BY OWNER'S REPRESENTATIVE
	ADJACENT PROJECT		_CONC. PAVT, MISC, 9 INCH, REINF, MODIFIED	3	
	_SIDEWALK RAMP, ADA, MODIFIED (R-28-H)		CONTROL JOINT	5	SEALED EXPANSION JOINTS AROUND UTILITY STRUCTURE FRAMES/COVERS, TYP.
	_BIKE RACK, TYPE M		COLD JOINT	6	CONTROL JOINTS AT 10'-0" O.C. AND SEALED EXPANSION JOINT AT 120'-0" O.C. IN CURB ALONG PARKING LOT
	_BIKE RACKS, TYPE M		SEALED EXPANSION JOINT	10	
	_DOG LITTER RECEPTACLE, TYPE M		DOWELED SEALED EXPANSION JOINT	11	
	_DRINKING FOUNTAIN		CHAMFERED CONTROL JOINT	7	
	_TRASH RECEPTACLE, TYPE M		CHAMFERED COLD (CONSTRUCTION) JOINT	8	
	_WAYFINDING COLUMN, FOUNDATION		TIED COLD (CONSTRUCTION) JOINT	9	
	_FIXTURE TYPE M1 (REFER TO ELECTRICAL PLANS)				
	_FIXTURE TYPE M2, PLD (REFER TO ELECTRICAL PLANS)				

NOTES:  
1. REFER TO DRAWING G0.5 FOR JOINTING AND CONCRETE THICKNESS NOTES.



DRAWING TITLE

### JOINTING AND CONCRETE THICKNESS PLAN - AREA G

GRAPHIC SCALE 1" = 20'-0"

TAKES PRECEDENCE FULL SIZE SCALE (24x36) 24708.003

PROJECT NUMBER

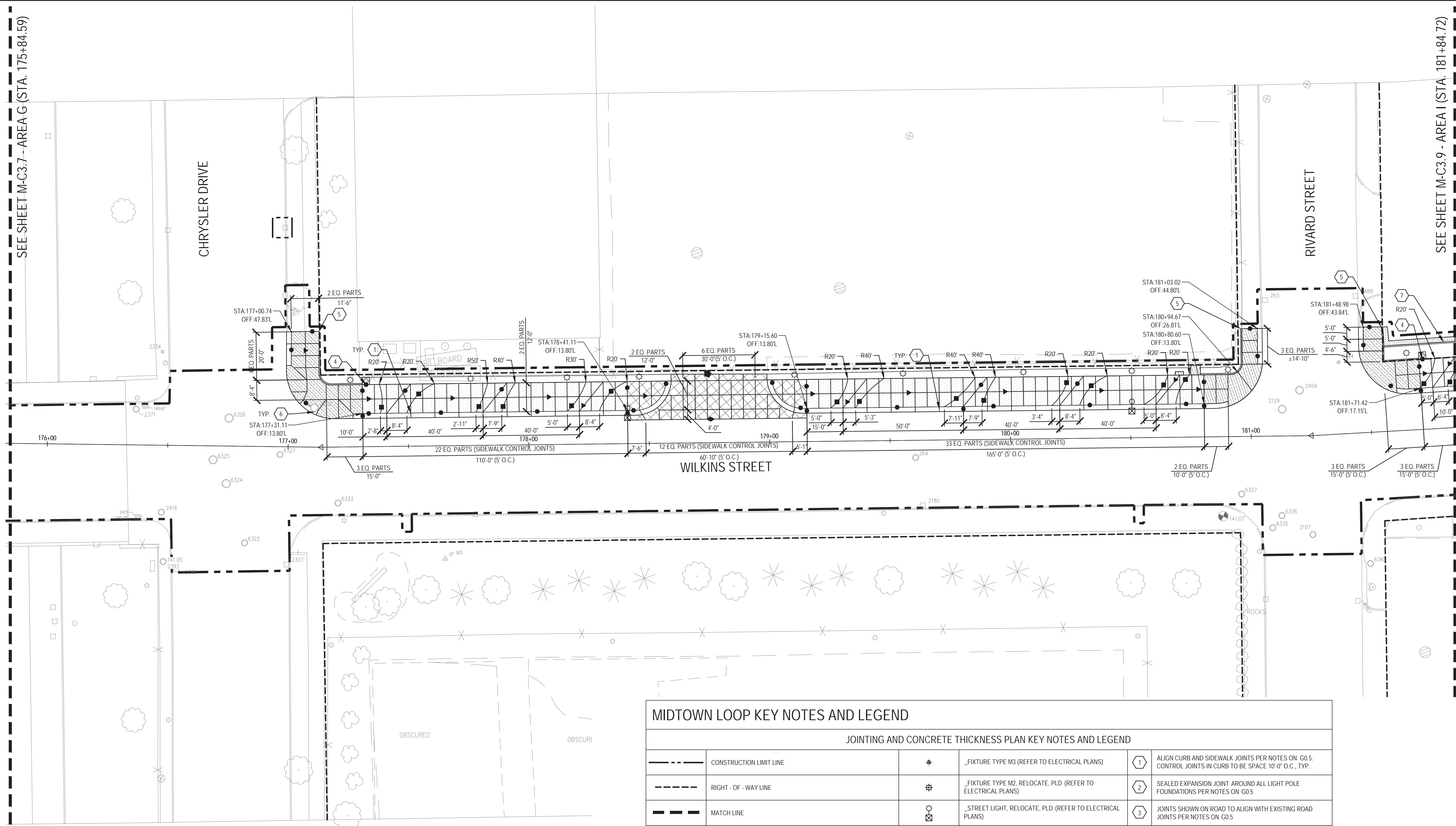
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DRAWING NUMBER 274 of 497

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SEE SHEET M-C3.7 - AREA G (STA. 175+84.59)

SEE SHEET M-C3.9 - AREA I (STA. 181+84.72)



### MIDTOWN LOOP KEY NOTES AND LEGEND

JOINTING AND CONCRETE THICKNESS PLAN KEY NOTES AND LEGEND					
	CONSTRUCTION LIMIT LINE		_FIXTURE TYPE M3 (REFER TO ELECTRICAL PLANS)		ALIGN CURB AND SIDEWALK JOINTS PER NOTES ON G0.5. CONTROL JOINTS IN CURB TO BE SPACE 10'-0" O.C., TYP.
	RIGHT - OF - WAY LINE		_FIXTURE TYPE M2, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)		SEALED EXPANSION JOINT AROUND ALL LIGHT POLE FOUNDATIONS PER NOTES ON G0.5
	MATCH LINE		_STREET LIGHT, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)		JOINTS SHOWN ON ROAD TO ALIGN WITH EXISTING ROAD JOINTS PER NOTES ON G0.5
	HORIZONTAL ALIGNMENT		_SIDEWALK, CONC, 4 INCH, MODIFIED		SEALED EXPANSION JOINT BETWEEN SITE FURNISHING CONCRETE PADS AND ADJACENT SIDEWALK
	STATION AND OFFSET POINT		_SIDEWALK, CONC, 6 INCH, MODIFIED		IF SAWCUT LOCATION IS ADJUSTED FROM LOCATION NOTED ON DEMOLITION PLANS TO AN ADJACENT EXISTING PAVEMENT JOINT THAT IS LESS THAN 3' AWAY, RELATED JOINT SPACING AND ALIGNMENT ARE TO BE ADJUSTED AND APPROVED BY OWNER'S REPRESENTATIVE
	ADJACENT PROJECT		_CONC. PAVT, MISC, 9 INCH, REINF, MODIFIED		SEALED EXPANSION JOINTS AROUND UTILITY STRUCTURE FRAMES/COVERS, TYP.
	_SIDEWALK RAMP, ADA, MODIFIED (R-28-H)		CONTROL JOINT		CONTROL JOINTS AT 10'-0" O.C. AND SEALED EXPANSION JOINT AT 120'-0" O.C. IN CURB ALONG PARKING LOT
	_BIKE RACK, TYPE M		COLD JOINT		
	_BIKE RACKS		SEALED EXPANSION JOINT		
	_DOG LITTER RECEPTACLE, TYPE M		DOWELED SEALED EXPANSION JOINT		
	_DRINKING FOUNTAIN		CHAMFERED CONTROL JOINT		
	_TRASH RECEPTACLE, TYPE M		CHAMFERED COLD (CONSTRUCTION) JOINT		
	_WAYFINDING COLUMN, FOUNDATION		TIED COLD (CONSTRUCTION) JOINT		
	_FIXTURE TYPE M1 (REFER TO ELECTRICAL PLANS)				
	_FIXTURE TYPE M2, PLD (REFER TO ELECTRICAL PLANS)				

NOTES:  
1. REFER TO DRAWING G0.5 FOR JOINTING AND CONCRETE THICKNESS NOTES.

## Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



Midtown Detroit, Inc.

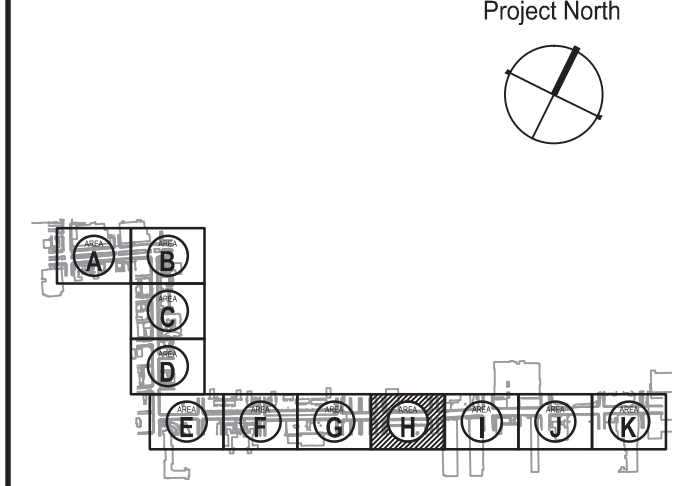
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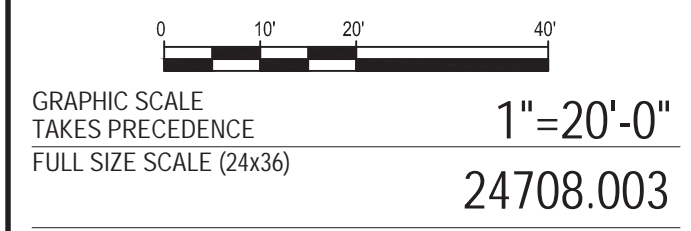
ISSUED FOR	REV	DATE
BIDDING DOCUMENTS	5	MAY 21, 2013
BIDDING DOCUMENTS	4	MAY 02, 2013
100% CONSTRUCTION DOCUMENTS	3	APR 01, 2013
GRADE INSPECTION	2	JAN 30, 2013
80% CONSTRUCTION DOCUMENTS	1	JAN 07, 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05, 2012

SEALS AND SIGNATURES

KEY PLAN



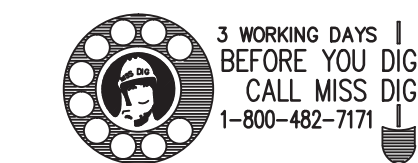
### JOINTING AND CONCRETE THICKNESS PLAN - AREA H



PROJECT NUMBER  
**M-C3.8**

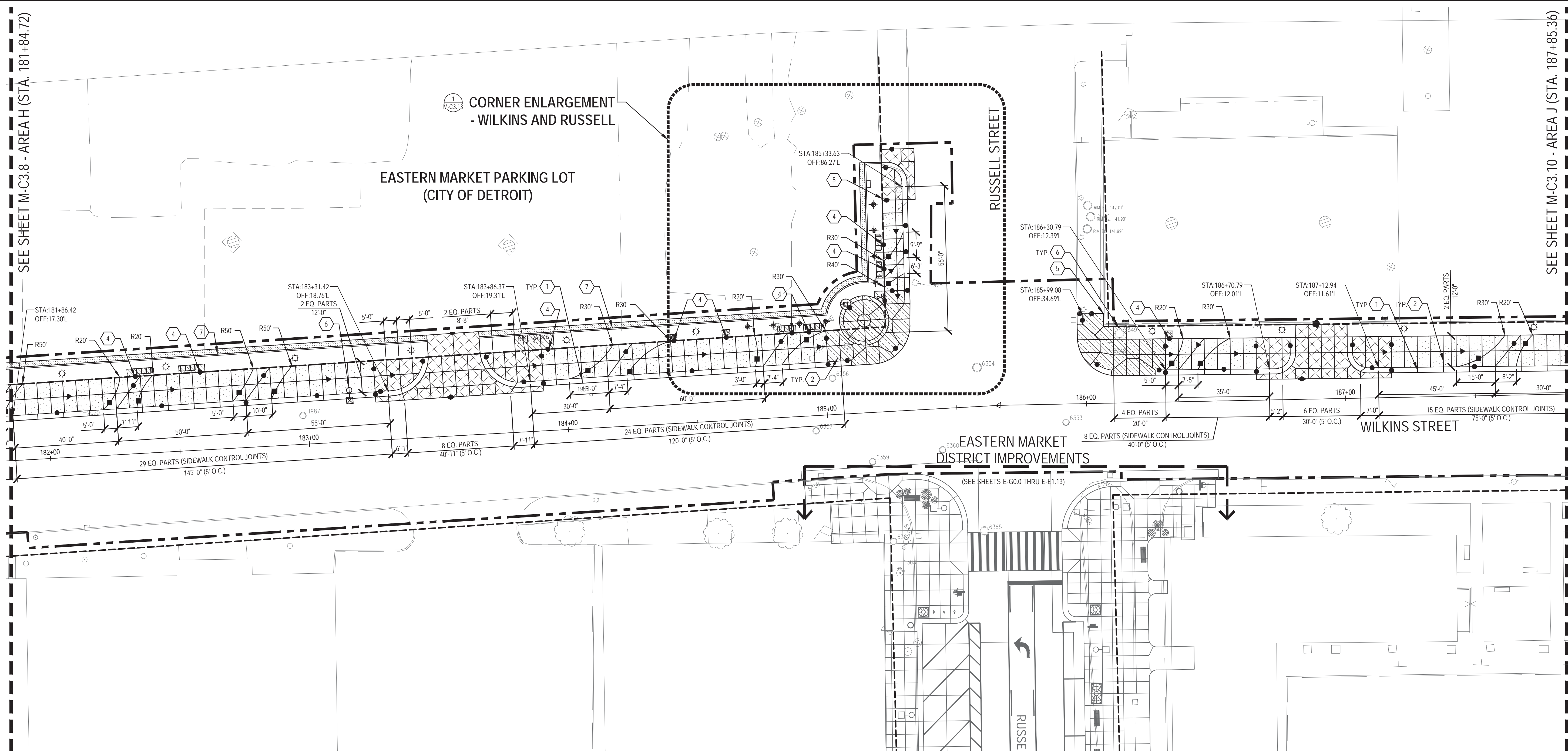
DRAWING NUMBER  
275 of 497

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SEE SHEET M-C3.8 - AREA H (STA. 181+84.72)

SEE SHEET M-C3.10 - AREA J (STA. 187+85.36)



**CORNER ENLARGEMENT - WILKINS AND RUSSELL**

**EASTERN MARKET PARKING LOT (CITY OF DETROIT)**

**EASTERN MARKET DISTRICT IMPROVEMENTS**

**WILKINS STREET**

**RUSSELL STREET**

**RUSSELL**

**Midtown Loop Phase IV**

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



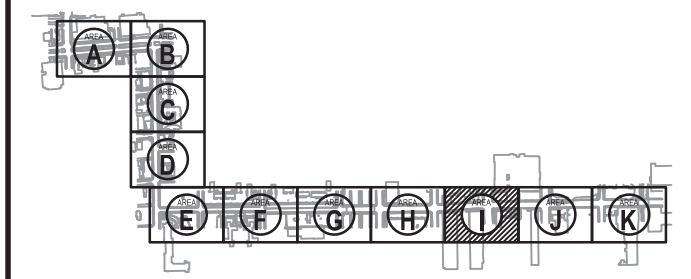
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100% CONSTRUCTION DOCUMENTS	3	APR 01, 2013
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80% CONSTRUCTION DOCUMENTS	1	JAN 07, 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05, 2012

SEALS AND SIGNATURES



DRAWING TITLE

**JOINTING AND CONCRETE THICKNESS PLAN - AREA I**

GRAPHIC SCALE  
TAKES PRECEDENCE  
FULL SIZE SCALE (24x36)  
1" = 20'-0"  
24708.003

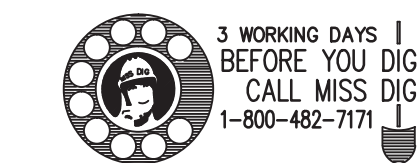
PROJECT NUMBER  
**M-C3.9**

DRAWING NUMBER  
276 of 497

**MIDTOWN LOOP KEY NOTES AND LEGEND**

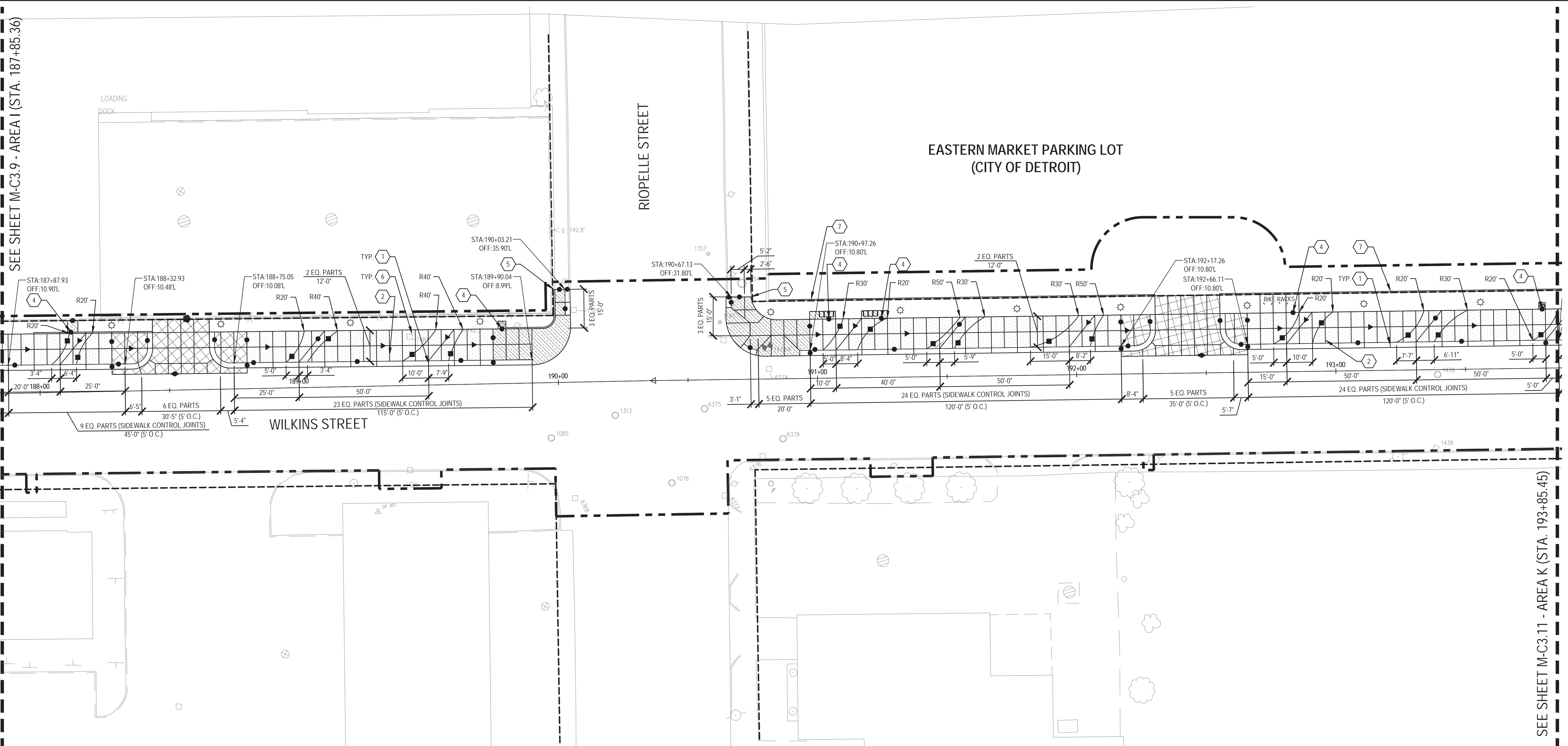
JOINTING AND CONCRETE THICKNESS PLAN KEY NOTES AND LEGEND			
	CONSTRUCTION LIMIT LINE		_FIXTURE TYPE M3 (REFER TO ELECTRICAL PLANS)
	RIGHT - OF - WAY LINE		_FIXTURE TYPE M2, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)
	MATCH LINE		_STREET LIGHT, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)
	HORIZONTAL ALIGNMENT		_SIDEWALK, CONC, 4 INCH, MODIFIED
	STATION AND OFFSET POINT		_SIDEWALK, CONC, 6 INCH, MODIFIED
	ADJACENT PROJECT		_CONC. PAVT, MISC, 9 INCH, REINF, MODIFIED
	_SIDEWALK RAMP, ADA, MODIFIED (R-28-H)		CONTROL JOINT
	_BIKE RACK, TYPE M		COLD JOINT
	_BIKE RACKS, TYPE M		SEALED EXPANSION JOINT
	_DOG LITTER RECEPTACLE, TYPE M		DOWELED SEALED EXPANSION JOINT
	_DRINKING FOUNTAIN		CHAMFERED CONTROL JOINT
	_TRASH RECEPTACLE, TYPE M		CHAMFERED COLD (CONSTRUCTION) JOINT
	_WAYFINDING COLUMN, FOUNDATION		TIED COLD (CONSTRUCTION) JOINT
	_FIXTURE TYPE M1 (REFER TO ELECTRICAL PLANS)		
	_FIXTURE TYPE M2, PLD (REFER TO ELECTRICAL PLANS)		

NOTES:  
1. REFER TO DRAWING G0.5 FOR JOINTING AND CONCRETE THICKNESS NOTES.



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SEE SHEET M-C3.9 - AREA I (STA. 187+85.36)



Midtown Loop  
Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



Midtown Detroit, Inc.

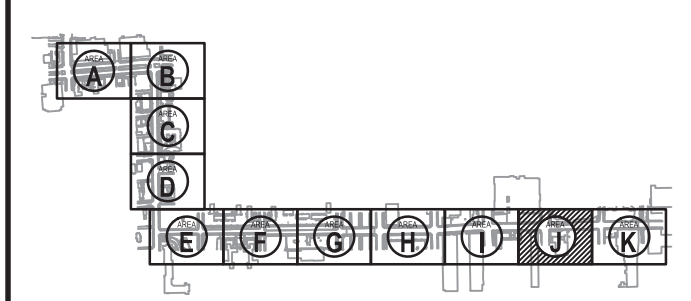
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SEE SHEET M-C3.11 - AREA K (STA. 193+85.45)

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BIDDING DOCUMENTS	5	MAY 21, 2013
BIDDING DOCUMENTS	4	MAY 02, 2013
100% CONSTRUCTION DOCUMENTS	3	APR 01, 2013
GRADE INSPECTION	2	JAN 30, 2013
80% CONSTRUCTION DOCUMENTS	1	JAN 07, 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05, 2012

SEALS AND SIGNATURES



DRAWING TITLE  
JOINTING AND  
CONCRETE THICKNESS  
PLAN - AREA J

GRAPHIC SCALE  
TAKES PRECEDENCE  
FULL SIZE SCALE (24x36)  
24708.003

PROJECT NUMBER  
M-C3.10  
DRAWING NUMBER  
277 of 497

3 WORKING DAYS  
BEFORE YOU DIG  
CALL MISS DIG  
1-800-482-7171



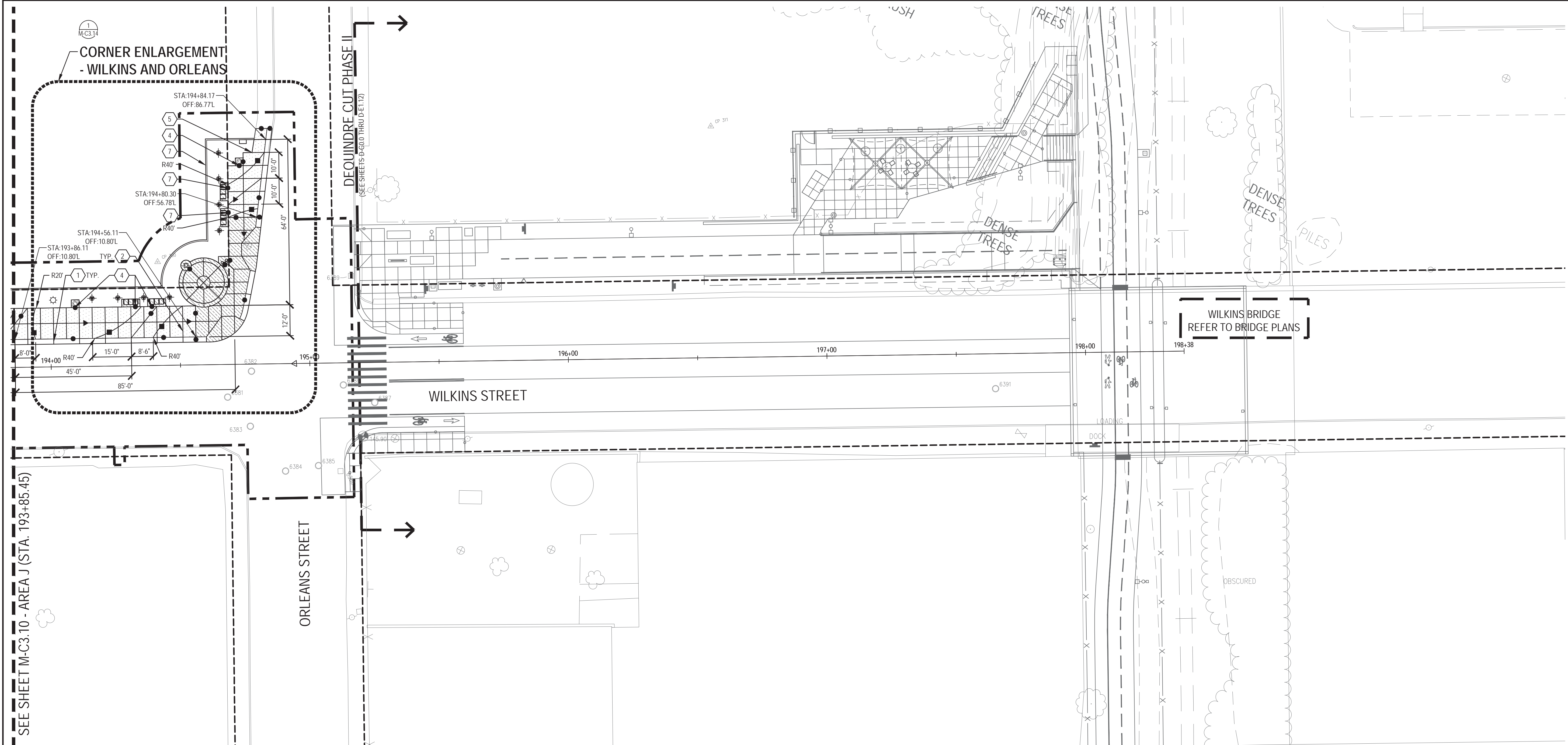
MIDTOWN LOOP KEY NOTES AND LEGEND

JOINTING AND CONCRETE THICKNESS PLAN KEY NOTES AND LEGEND

	CONSTRUCTION LIMIT LINE		_FIXTURE TYPE M3 (REFER TO ELECTRICAL PLANS)	1	ALIGN CURB AND SIDEWALK JOINTS PER NOTES ON G0.5. CONTROL JOINTS IN CURB TO BE SPACE 10'-0" O.C., TYP.
	RIGHT - OF - WAY LINE		_FIXTURE TYPE M2, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)	2	SEALED EXPANSION JOINT AROUND ALL LIGHT POLE FOUNDATIONS PER NOTES ON G0.5
	MATCH LINE		_STREET LIGHT, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)	3	JOINTS SHOWN ON ROAD TO ALIGN WITH EXISTING ROAD JOINTS PER NOTES ON G0.5
	HORIZONTAL ALIGNMENT		_SIDEWALK, CONC, 4 INCH, MODIFIED	1 MCSJ	SEALED EXPANSION JOINT BETWEEN SITE FURNISHING CONCRETE PADS AND ADJACENT SIDEWALK
	STATION AND OFFSET POINT		_SIDEWALK, CONC, 6 INCH, MODIFIED	2 MCSJ	IF SAWCUT LOCATION IS ADJUSTED FROM LOCATION NOTED ON DEMOLITION PLANS TO AN ADJACENT EXISTING PAVEMENT JOINT THAT IS LESS THAN 3' AWAY, RELATED JOINT SPACING AND ALIGNMENT ARE TO BE ADJUSTED AND APPROVED BY OWNER'S REPRESENTATIVE
	ADJACENT PROJECT		_CONC. PAVT, MISC, 9 INCH, REINF, MODIFIED	3 MCSJ	
	_SIDEWALK RAMP, ADA, MODIFIED (R-28-H)		CONTROL JOINT	5 MCSJ	SEALED EXPANSION JOINTS AROUND UTILITY STRUCTURE FRAMES/COVERS, TYP.
	_BIKE RACK, TYPE M		COLD JOINT	6 MCSJ	CONTROL JOINTS AT 10'-0" O.C. AND SEALED EXPANSION JOINT AT 120'-0" O.C. IN CURB ALONG PARKING LOT
	_BIKE RACK, TYPE M		SEALED EXPANSION JOINT	10 MCSJ	
	_DOG LITTER RECEPTACLE, TYPE M		DOWELED SEALED EXPANSION JOINT	11 MCSJ	
	_DRINKING FOUNTAIN		CHAMFERED CONTROL JOINT	7 MCSJ	
	_TRASH RECEPTACLE, TYPE M		CHAMFERED COLD (CONSTRUCTION) JOINT	8 MCSJ	
	_WAYFINDING COLUMN, FOUNDATION		TIED COLD (CONSTRUCTION) JOINT	9 MCSJ	
	_FIXTURE TYPE M1 (REFER TO ELECTRICAL PLANS)				
	_FIXTURE TYPE M2, PLD (REFER TO ELECTRICAL PLANS)				

NOTES:  
1. REFER TO DRAWING G0.5 FOR JOINTING AND CONCRETE THICKNESS NOTES.

FILE: P:\24708\003\Phase-IV\CAD\Sheet\24708-004-001-SHT.dwg USER: young DATE: May, 21, 2013 TIME: 05:05 pm



SEE SHEET M-C3.10 - AREA J (STA. 193+85.45)

# Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



Midtown Detroit, Inc.

## SMITHGROUP JJR

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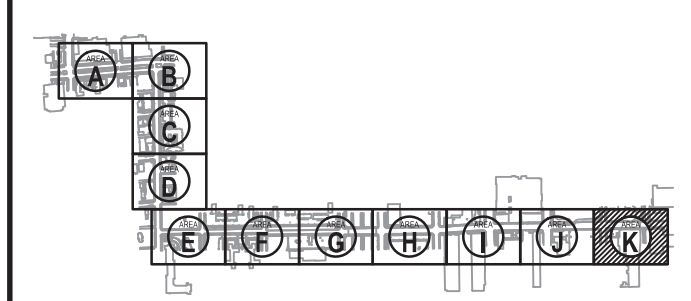
SEALS AND SIGNATURES

### MIDTOWN LOOP KEY NOTES AND LEGEND

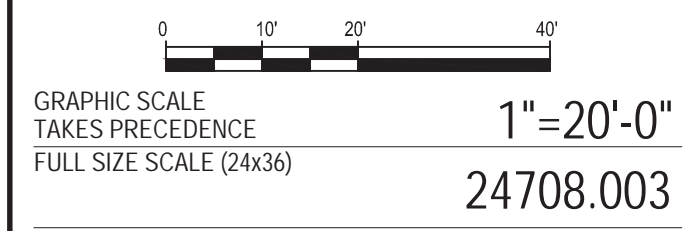
#### JOINTING AND CONCRETE THICKNESS PLAN KEY NOTES AND LEGEND

	CONSTRUCTION LIMIT LINE		_FIXTURE TYPE M3 (REFER TO ELECTRICAL PLANS)	1	ALIGN CURB AND SIDEWALK JOINTS PER NOTES ON G0.5. CONTROL JOINTS IN CURB TO BE SPACE 10'-0" O.C., TYP.	
	RIGHT - OF - WAY LINE		_FIXTURE TYPE M2, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)	2	SEALED EXPANSION JOINT AROUND ALL LIGHT POLE FOUNDATIONS PER NOTES ON G0.5	
	MATCH LINE		_STREET LIGHT, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)	3	JOINTS SHOWN ON ROAD TO ALIGN WITH EXISTING ROAD JOINTS PER NOTES ON G0.5	
	HORIZONTAL ALIGNMENT		_SIDEWALK, CONC, 4 INCH, MODIFIED	1 M-C3.1	4	SEALED EXPANSION JOINT BETWEEN SITE FURNISHING CONCRETE PADS AND ADJACENT SIDEWALK
	STATION AND OFFSET POINT		_SIDEWALK, CONC, 6 INCH, MODIFIED	2 M-C3.1	5	IF SAWCUT LOCATION IS ADJUSTED FROM LOCATION NOTED ON DEMOLITION PLANS TO AN ADJACENT EXISTING PAVEMENT JOINT THAT IS LESS THAN 3' AWAY, RELATED JOINT SPACING AND ALIGNMENT ARE TO BE ADJUSTED AND APPROVED BY OWNER'S REPRESENTATIVE
	ADJACENT PROJECT		_CONC. PAVT, MISC, 9 INCH, REINF, MODIFIED	3 M-C3.1	6	SEALED EXPANSION JOINTS AROUND UTILITY STRUCTURE FRAMES/COVERS, TYP.
	_SIDEWALK RAMP, ADA, MODIFIED (R-28-H)		CONTROL JOINT	5 M-C3.1	7	CONTROL JOINTS AT 10'-0" O.C. AND SEALED EXPANSION JOINT AT 120'-0" O.C. IN CURB ALONG PARKING LOT
	_BIKE RACK, TYPE M		COLD JOINT	6 M-C3.1		
	_BIKE RACKS, TYPE M		SEALED EXPANSION JOINT	10 M-C3.1		
	_DOG LITTER RECEPTACLE, TYPE M		DOWELED SEALED EXPANSION JOINT	11 M-C3.1		
	_DRINKING FOUNTAIN		CHAMFERED CONTROL JOINT	7 M-C3.1		
	_TRASH RECEPTACLE, TYPE M		CHAMFERED COLD (CONSTRUCTION) JOINT	8 M-C3.1		
	_WAYFINDING COLUMN, FOUNDATION		TIED COLD (CONSTRUCTION) JOINT	9 M-C3.1		
	_FIXTURE TYPE M1 (REFER TO ELECTRICAL PLANS)					
	_FIXTURE TYPE M2, PLD (REFER TO ELECTRICAL PLANS)					

NOTES:  
1. REFER TO DRAWING G0.5 FOR JOINTING AND CONCRETE THICKNESS NOTES.

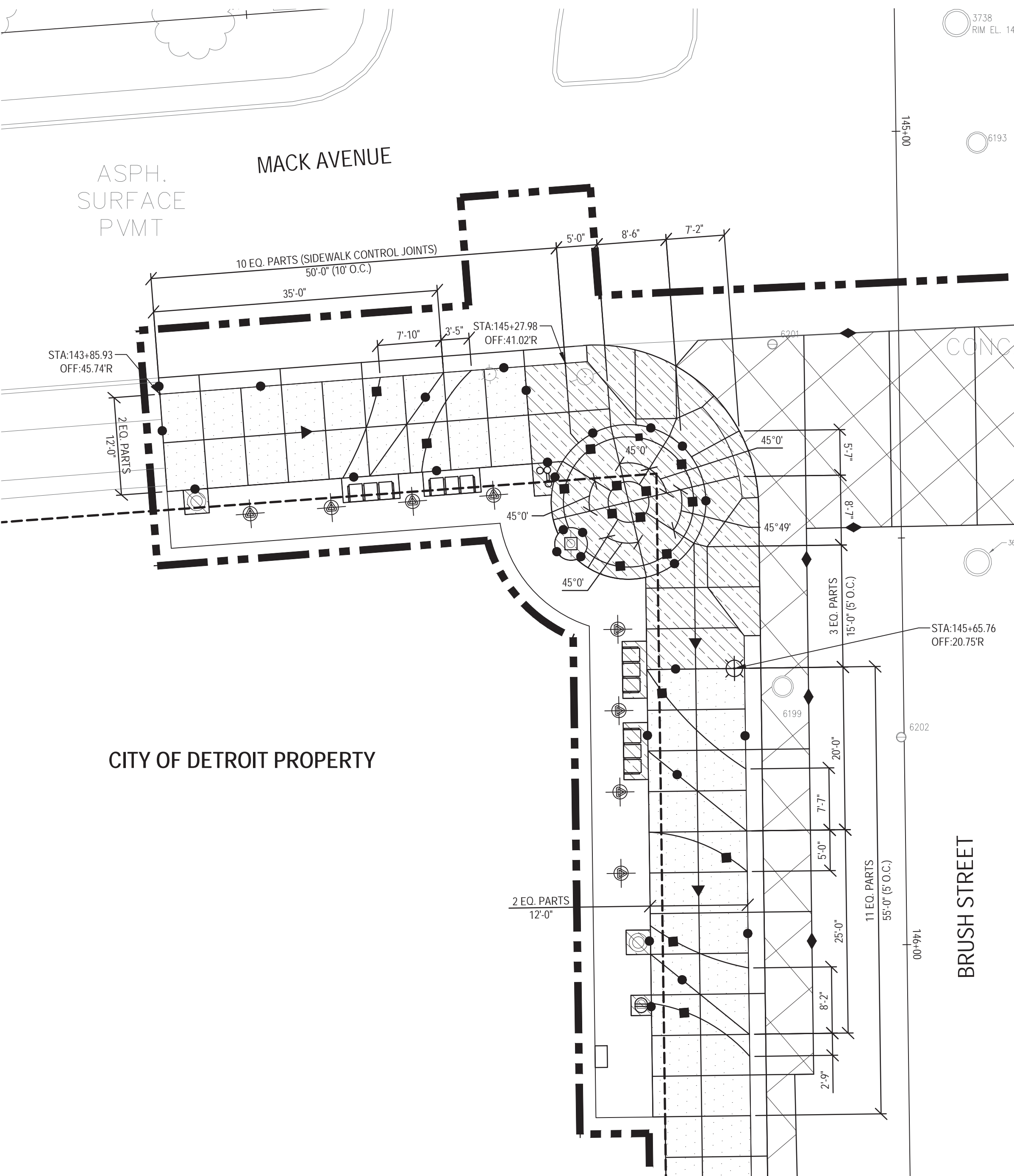


### JOINTING AND CONCRETE THICKNESS PLAN - AREA K



PROJECT NUMBER  
**M-C3.11**  
DRAWING NUMBER  
278 of 497





1 CORNER ENLARGEMENT - MACK AND BRUSH  
PLAN

1"=10'

MIDTOWN LOOP KEY NOTES AND LEGEND

JOINTING AND CONCRETE THICKNESS PLAN KEY NOTES AND LEGEND					
	CONSTRUCTION LIMIT LINE		_FIXTURE TYPE M3 (REFER TO ELECTRICAL PLANS)		ALIGN CURB AND SIDEWALK JOINTS PER NOTES ON G0.5. CONTROL JOINTS IN CURB TO BE SPACE 10'-0" O.C., TYP.
	RIGHT - OF - WAY LINE		_FIXTURE TYPE M2, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)		SEALED EXPANSION JOINT AROUND ALL LIGHT POLE FOUNDATIONS PER NOTES ON G0.5
	MATCH LINE		_STREET LIGHT, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)		JOINTS SHOWN ON ROAD TO ALIGN WITH EXISTING ROAD JOINTS PER NOTES ON G0.5
	HORIZONTAL ALIGNMENT		_SIDEWALK, CONC, 4 INCH, MODIFIED		SEALED EXPANSION JOINT BETWEEN SITE FURNISHING CONCRETE PADS AND ADJACENT SIDEWALK
	STATION AND OFFSET POINT		_SIDEWALK, CONC, 6 INCH, MODIFIED		IF SAWCUT LOCATION IS ADJUSTED FROM LOCATION NOTED ON DEMOLITION PLANS TO AN ADJACENT EXISTING PAVEMENT JOINT THAT IS LESS THAN 3' AWAY, RELATED JOINT SPACING AND ALIGNMENT ARE TO BE ADJUSTED AND APPROVED BY OWNER'S REPRESENTATIVE
	ADJACENT PROJECT		_CONC, PAVT, MISC, 9 INCH, REINF, MODIFIED		SEALED EXPANSION JOINTS AROUND UTILITY STRUCTURE FRAMES/COVERS, TYP.
	_SIDEWALK RAMP, ADA, MODIFIED (R-28-H)		CONTROL JOINT		CONTROL JOINTS AT 10'-0" O.C. AND SEALED EXPANSION JOINT AT 120'-0" O.C. IN CURB ALONG PARKING LOT
	_BIKE RACK, TYPE M		COLD JOINT		
	_BIKE RACKS		SEALED EXPANSION JOINT		
	_DOG LITTER RECEPTACLE, TYPE M		DOWELED SEALED EXPANSION JOINT		
	_DRINKING FOUNTAIN		CHAMFERED CONTROL JOINT		
	_TRASH RECEPTACLE, TYPE M		CHAMFERED COLD (CONSTRUCTION) JOINT		
	_WAYFINDING COLUMN, FOUNDATION		TIED COLD (CONSTRUCTION) JOINT		
	_FIXTURE TYPE M1 (REFER TO ELECTRICAL PLANS)				
	_FIXTURE TYPE M2, PLD (REFER TO ELECTRICAL PLANS)				

NOTES:  
1. REFER TO DRAWING G0.5 FOR JOINTING AND CONCRETE THICKNESS NOTES.

Midtown Loop  
Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



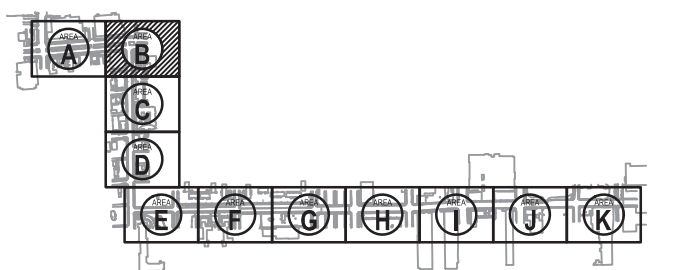
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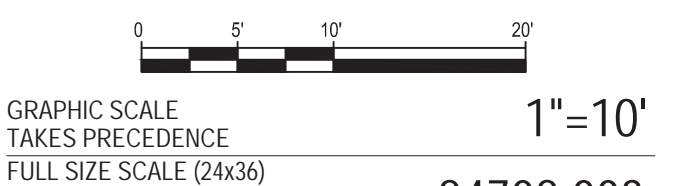
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www.smithgroupjjr.com

ISSUED FOR	REV	DATE
BIDDING DOCUMENTS	5	MAY 21, 2013
BIDDING DOCUMENTS	4	MAY 02, 2013
100% CONSTRUCTION DOCUMENTS	3	APR 01, 2013
GRADE INSPECTION	2	JAN 30, 2013
80% CONSTRUCTION DOCUMENTS	1	JAN 07, 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05, 2012

SEALS AND SIGNATURES



DRAWING TITLE  
CORNER ENLARGEMENT  
- MACK AND BRUSH



PROJECT NUMBER  
M-C3.12  
DRAWING NUMBER  
279 of 497





**1 CORNER ENLARGEMENT - WILKINS AND RUSSELL**  
PLAN

1"=10'

**MIDTOWN LOOP KEY NOTES AND LEGEND**

JOINTING AND CONCRETE THICKNESS PLAN KEY NOTES AND LEGEND					
	CONSTRUCTION LIMIT LINE		_FIXTURE TYPE M3 (REFER TO ELECTRICAL PLANS)		ALIGN CURB AND SIDEWALK JOINTS PER NOTES ON G0.5. CONTROL JOINTS IN CURB TO BE SPACE 10'-0" O.C., TYP.
	RIGHT-OF-WAY LINE		_FIXTURE TYPE M2, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)		SEALED EXPANSION JOINT AROUND ALL LIGHT POLE FOUNDATIONS PER NOTES ON G0.5
	MATCH LINE		_STREET LIGHT, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)		JOINTS SHOWN ON ROAD TO ALIGN WITH EXISTING ROAD JOINTS PER NOTES ON G0.5
	HORIZONTAL ALIGNMENT		_SIDEWALK, CONC. 4 INCH, MODIFIED		SEALED EXPANSION JOINT BETWEEN SITE FURNISHING CONCRETE PADS AND ADJACENT SIDEWALK
	STATION AND OFFSET POINT		_SIDEWALK, CONC. 6 INCH, MODIFIED		IF SAWCUT LOCATION IS ADJUSTED FROM LOCATION NOTED ON DEMOLITION PLANS TO AN ADJACENT EXISTING PAVEMENT JOINT THAT IS LESS THAN 3' AWAY, RELATED JOINT SPACING AND ALIGNMENT ARE TO BE ADJUSTED AND APPROVED BY OWNER'S REPRESENTATIVE
	ADJACENT PROJECT		_CONC. PAVT, MISC. 9 INCH, REINF. MODIFIED		SEALED EXPANSION JOINTS AROUND UTILITY STRUCTURE FRAMES/COVERS, TYP.
	_SIDEWALK RAMP, ADA, MODIFIED (R-28+H)		CONTROL JOINT		CONTROL JOINTS AT 10'-0" O.C. AND SEALED EXPANSION JOINT AT 120'-0" O.C. IN CURB ALONG PARKING LOT
	_BIKE RACK, TYPE M		COLD JOINT		
	_BIKE RACK, TYPE M		SEALED EXPANSION JOINT		
	_DOG LITTER RECEPTACLE, TYPE M		DOWELED SEALED EXPANSION JOINT		
	_DRINKING FOUNTAIN		CHAMFERED CONTROL JOINT		
	_TRASH RECEPTACLE, TYPE M		CHAMFERED COLD (CONSTRUCTION) JOINT		
	_WAYFINDING COLUMN, FOUNDATION		TIED COLD (CONSTRUCTION) JOINT		
	_FIXTURE TYPE M1 (REFER TO ELECTRICAL PLANS)				
	_FIXTURE TYPE M2, PLD (REFER TO ELECTRICAL PLANS)				

NOTES:  
1. REFER TO DRAWING G0.5 FOR JOINTING AND CONCRETE THICKNESS NOTES.

**Midtown Loop Phase IV**

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



Midtown Detroit, Inc.

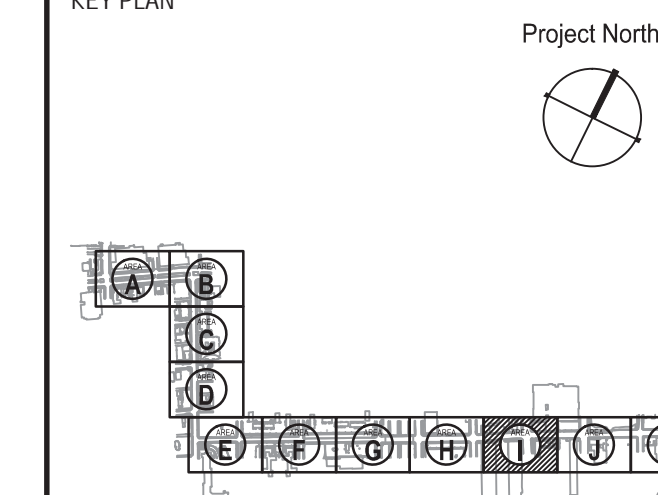
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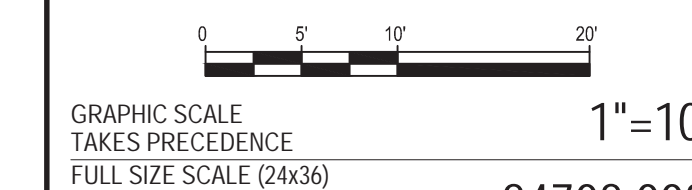
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50% CONSTRUCTION DOCUMENTS	0	NOV 05, 2012

SEALS AND SIGNATURES

KEY PLAN



**CORNER ENLARGEMENT - WILKINS AND RUSSELL**



PROJECT NUMBER

**M-C3.13**

DRAWING NUMBER

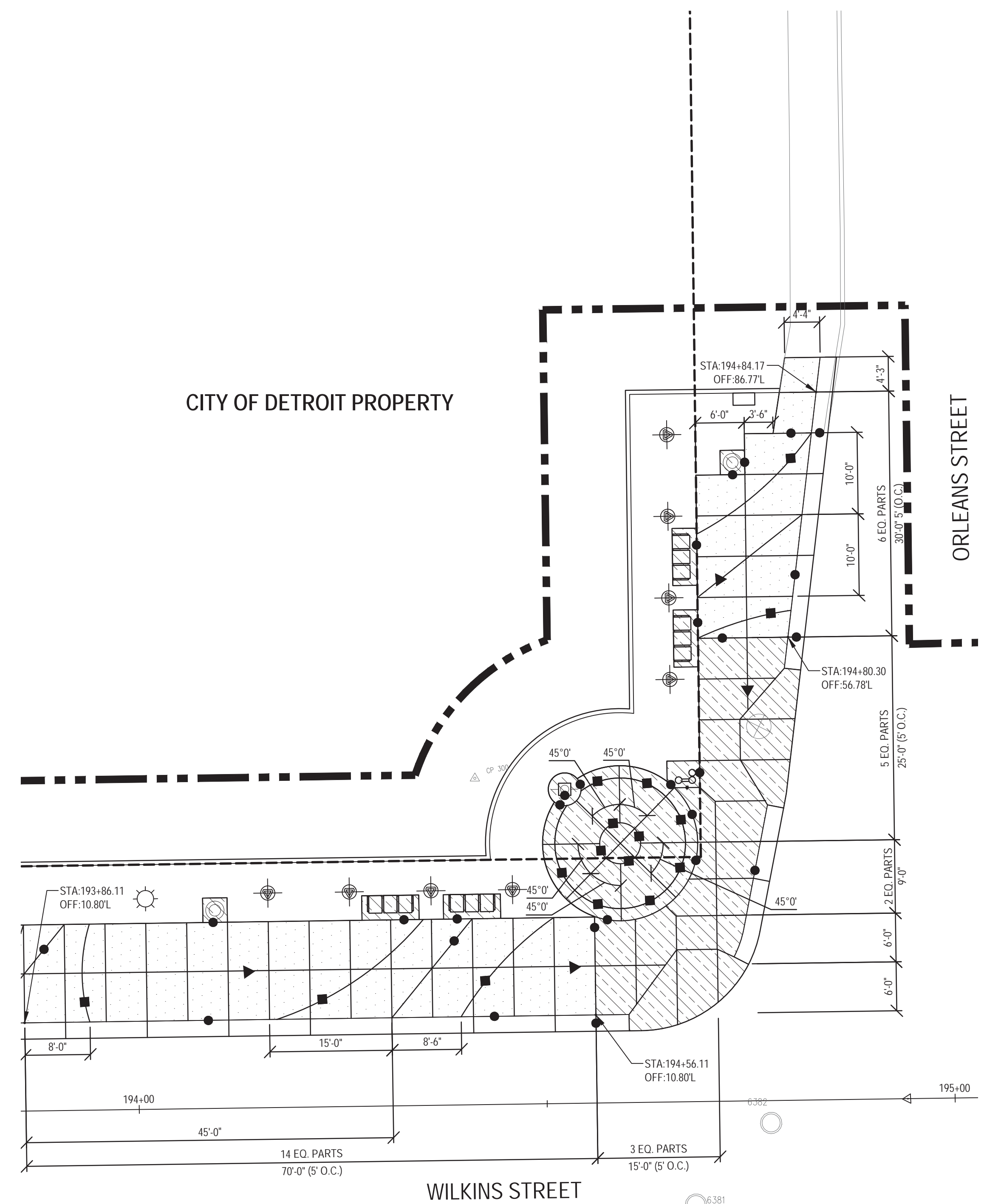
280 of 497



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**1** CORNER ENLARGEMENT - WILKINS AND ORLEANS  
PLAN  
1"=10'

**MIDTOWN LOOP KEY NOTES AND LEGEND**

JOINTING AND CONCRETE THICKNESS PLAN KEY NOTES AND LEGEND			
	CONSTRUCTION LIMIT LINE		_FIXTURE TYPE M3 (REFER TO ELECTRICAL PLANS)
	RIGHT - OF - WAY LINE		_FIXTURE TYPE M2, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)
	MATCH LINE		_STREET LIGHT, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)
	HORIZONTAL ALIGNMENT		_SIDEWALK, CONC, 4 INCH, MODIFIED
	STATION AND OFFSET POINT		_SIDEWALK, CONC, 6 INCH, MODIFIED
	ADJACENT PROJECT		_CONC, PAVT, MISC, 9 INCH, REINF, MODIFIED
	_SIDEWALK RAMP, ADA, MODIFIED (R-28-H)		CONTROL JOINT
	_BIKE RACK, TYPE M		COLD JOINT
	_BIKE RACK, TYPE M		SEALED EXPANSION JOINT
	_DOG LITTER RECEPTACLE, TYPE M		DOWELED SEALED EXPANSION JOINT
	_DRINKING FOUNTAIN		CHAMFERED CONTROL JOINT
	_TRASH RECEPTACLE, TYPE M		CHAMFERED COLD (CONSTRUCTION) JOINT
	_WAYFINDING COLUMN, FOUNDATION		TIED COLD (CONSTRUCTION) JOINT
	_FIXTURE TYPE M1 (REFER TO ELECTRICAL PLANS)		
	_FIXTURE TYPE M2, PLD (REFER TO ELECTRICAL PLANS)		

NOTES:  
1. REFER TO DRAWING G0.5 FOR JOINTING AND CONCRETE THICKNESS NOTES.

**Midtown Loop Phase IV**

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



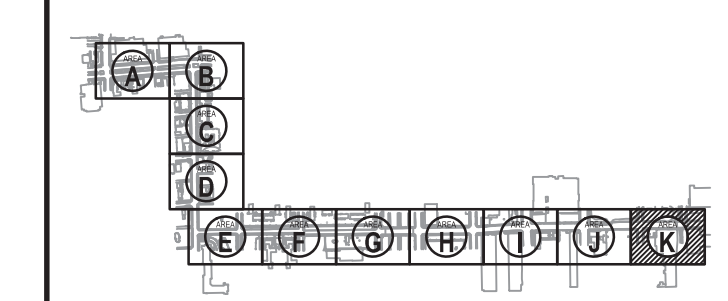
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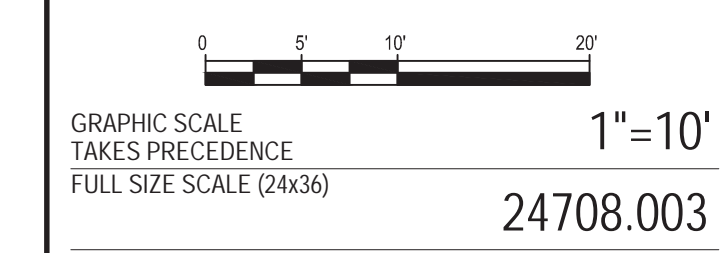
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50% CONSTRUCTION DOCUMENTS	0	NOV 05, 2012

SEALS AND SIGNATURES



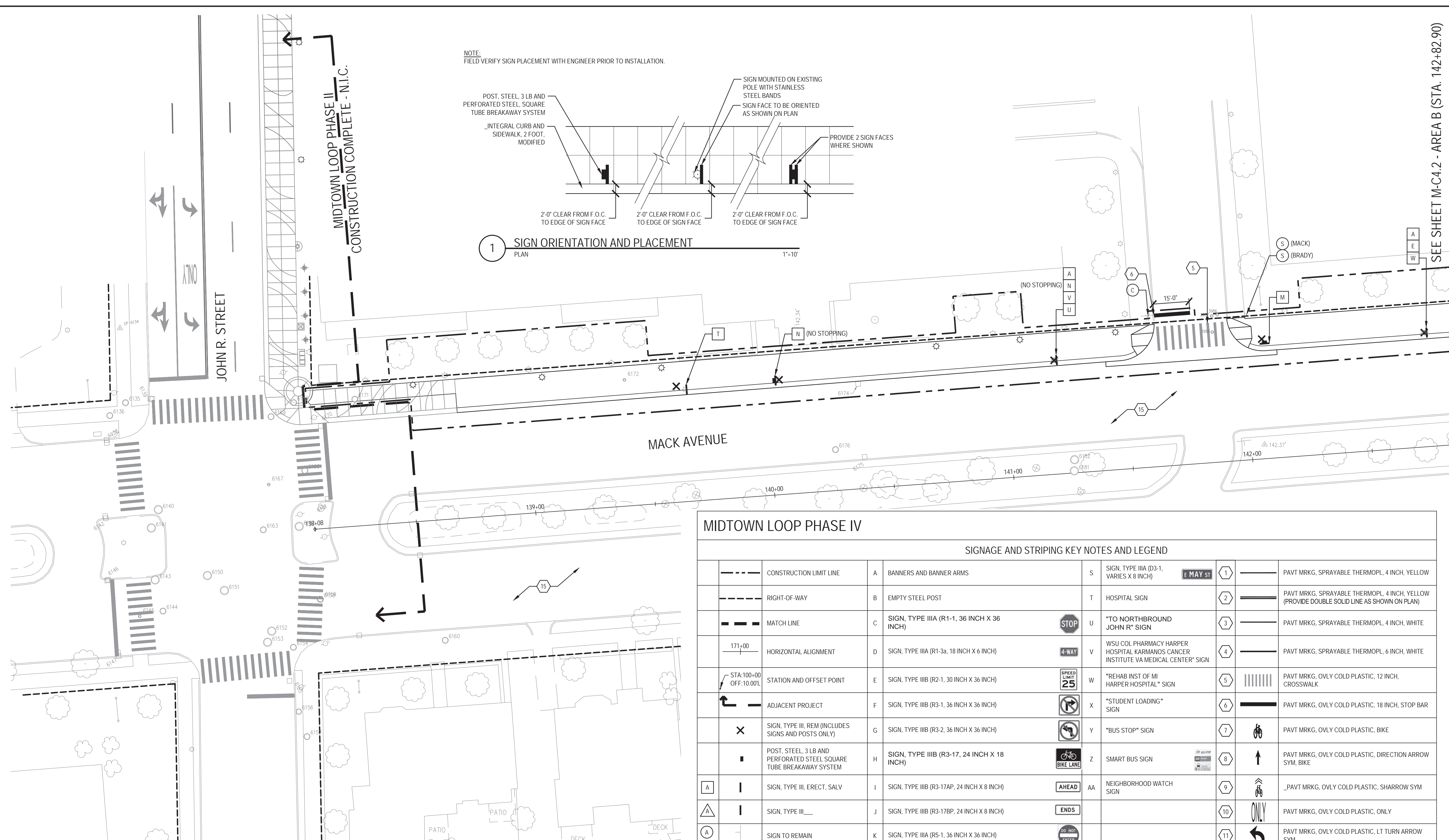
DRAWING TITLE  
**CORNER ENLARGEMENT - WILKINS AND ORLEANS**



PROJECT NUMBER  
**M-C3.14**  
DRAWING NUMBER  
281 of 497



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SEE SHEET M-C4.2 - AREA B (STA. 142+82.90)

# Midtown Loop Phase IV

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Detroit, Michigan



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## MIDTOWN LOOP PHASE IV

SIGNAGE AND STRIPING KEY NOTES AND LEGEND									
---	CONSTRUCTION LIMIT LINE	A	BANNERS AND BANNER ARMS	S	SIGN, TYPE IIIA (D3-1, VARIES X 8 INCH)	E MAY ST	1	PAVT MRKG, SPRAYABLE THERMOPL, 4 INCH, YELLOW	
---	RIGHT-OF-WAY	B	EMPTY STEEL POST	T	HOSPITAL SIGN		2	PAVT MRKG, SPRAYABLE THERMOPL, 4 INCH, YELLOW (PROVIDE DOUBLE SOLID LINE AS SHOWN ON PLAN)	
---	MATCH LINE	C	SIGN, TYPE IIIA (R1-1, 36 INCH X 36 INCH)	STOP	"TO NORTHBOUND JOHN R" SIGN		3	PAVT MRKG, SPRAYABLE THERMOPL, 4 INCH, WHITE	
---	HORIZONTAL ALIGNMENT	D	SIGN, TYPE IIIA (R1-3a, 18 INCH X 6 INCH)	4-WAY	WSU COL PHARMACY HARPER HOSPITAL KARMANOS CANCER INSTITUTE VA MEDICAL CENTER" SIGN		4	PAVT MRKG, SPRAYABLE THERMOPL, 6 INCH, WHITE	
---	STATION AND OFFSET POINT	E	SIGN, TYPE IIIB (R2-1, 30 INCH X 36 INCH)	SPEED LIMIT 25	"REHAB INST OF MI HARPER HOSPITAL" SIGN		5	PAVT MRKG, OVLY COLD PLASTIC, 12 INCH, CROSSWALK	
---	ADJACENT PROJECT	F	SIGN, TYPE IIIB (R3-1, 36 INCH X 36 INCH)	NO STOPPING	"STUDENT LOADING" SIGN		6	PAVT MRKG, OVLY COLD PLASTIC, 18 INCH, STOP BAR	
---	SIGN, TYPE III, REM (INCLUDES SIGNS AND POSTS ONLY)	G	SIGN, TYPE IIIB (R3-2, 36 INCH X 36 INCH)	NO PARKING	"BUS STOP" SIGN		7	PAVT MRKG, OVLY COLD PLASTIC, BIKE	
---	POST, STEEL, 3 LB AND PERFORATED STEEL SQUARE TUBE BREAKAWAY SYSTEM	H	SIGN, TYPE IIIB (R3-17, 24 INCH X 18 INCH)	BIKE LANE	SMART BUS SIGN		8	PAVT MRKG, OVLY COLD PLASTIC, DIRECTION ARROW SYM, BIKE	
A	SIGN, TYPE III, ERECT, SALV	I	SIGN, TYPE IIIB (R3-17AP, 24 INCH X 8 INCH)	AHEAD	NEIGHBORHOOD WATCH SIGN		9	PAVT MRKG, OVLY COLD PLASTIC, SHARROW SYM	
A	SIGN, TYPE III	J	SIGN, TYPE IIIB (R3-17BP, 24 INCH X 8 INCH)	ENDS			10	PAVT MRKG, OVLY COLD PLASTIC, ONLY	
A	SIGN TO REMAIN	K	SIGN, TYPE IIIA (RS-1, 36 INCH X 36 INCH)	DO NOT ENTER			11	PAVT MRKG, OVLY COLD PLASTIC, LT TURN ARROW SYM	
---	FIXTURE TYPE M1 (REFER TO ELECTRICAL PLANS)	L	SIGN, TYPE IIIB (R6-1R, 54 INCH X 18 INCH)	ONE WAY			12	PAVT MRKG, OVLY COLD PLASTIC, THRU AND RT TURN ARROW SYM	
---	FIXTURE TYPE M2, PLD (REFER TO ELECTRICAL PLANS)	M	SIGN, TYPE IIIB (R6-1L, 54 INCH X 18 INCH)	ONE WAY			13	PAVT MRKG, OVLY COLD PLASTIC, MERGE ARROW SYMBOL	
---	FIXTURE TYPE M3 (REFER TO ELECTRICAL PLANS)	N	SIGN, TYPE IIIB (R7-1, 12 INCH X 18 INCH)	NO STOPPING, NO PARKING, NO LEFT TURN, NO RIGHT TURN, NO U-TURN			14	EXISTING RAMP IN COMPLIANCE WITH ADA GUIDELINES AS APPROVED BY THE CITY OF DETROIT	
---	FIXTURE TYPE M2, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)	O	SIGN, TYPE IIIB (M3-1A, 30 INCH X 30 INCH)	STOP AHEAD			15	EXISTING LANE PAVT MRKG ON MACK AVE TO REMAIN	
---	STREET LIGHT, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)	P	SIGN, TYPE IIIB (W4-2L, 36 INCH X 36 INCH)	SHARE THE ROAD			16	SHUTTLE BUS SIGN. PROVIDE SIGN TO WSU. WSU TO REINSTALL.	
---		Q	SIGN, TYPE IIIB (W11-1, 30 INCH X 30 INCH)	SHARE THE ROAD			17	EASTERN MARKET LOT 7 SIGN. PROVIDE SIGN TO EASTERN MARKET. EASTERN MARKET TO REINSTALL.	
---		R	SIGN, TYPE IIIB (W16-1, 18 INCH X 24 INCH)	BIKE			18	EXISTING PAVEMENT MARKING TO REMAIN	

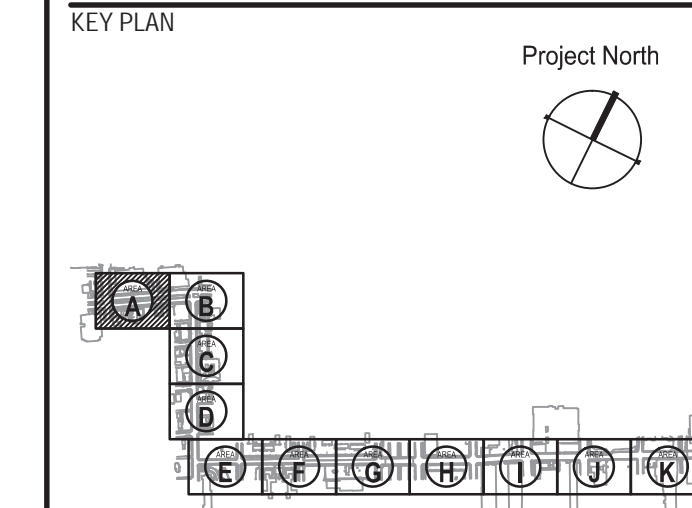
**NOTE:**  
1. REFER TO DRAWING G0.6 FOR SIGNAGE AND STRIPING NOTES.

**M-C4.1 - SIGNAGE AND STRIPING**

QTY	UNIT	ITEM DESCRIPTION
5	Ea	Sign, Type III, Rem
10	Ea	Sign, Type III, Erect, Salv
0	St	Sign, Type IIIA
0	St	Sign, Type IIIB
21	Ft	Post, Steel, 3 LB
2	Ea	Perforated Steel Square Tube Sign Breakaway System
115	Ft	Recessing Pavement Markings, Transv
0	Ft	PavT Mrkg, Sprayable ThermoPl, 4 inch, White
0	Ft	PavT Mrkg, Sprayable ThermoPl, 4 inch, Yellow
0	Ft	PavT Mrkg, Sprayable ThermoPl, 6 inch, White
100	Ft	PavT Mrkg, Ovly Cold Plastic, 12 inch, Crosswalk
15	Ft	PavT Mrkg, Ovly Cold Plastic, 18 inch, Stop Bar
0	Ea	PavT Mrkg, Ovly Cold Plastic, Only
0	Ea	PavT Mrkg, Ovly Cold Plastic, Lt Turn Arrow Sym
0	Ea	PavT Mrkg, Ovly Cold Plastic, Thru and Rt Turn Arrow Sym
0	Ea	PavT Mrkg, Ovly Cold Plastic, Bike
0	Ea	PavT Mrkg, Ovly Cold Plastic, Direction Arrow Sym, Bike
0	Ea	PavT Mrkg, Ovly Cold Plastic, Merge Arrow Symbol
0	Ea	PavT Mrkg, Ovly Cold Plastic, Sharrow Sym

ISSUED FOR	REV	DATE
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SEALS AND SIGNATURES



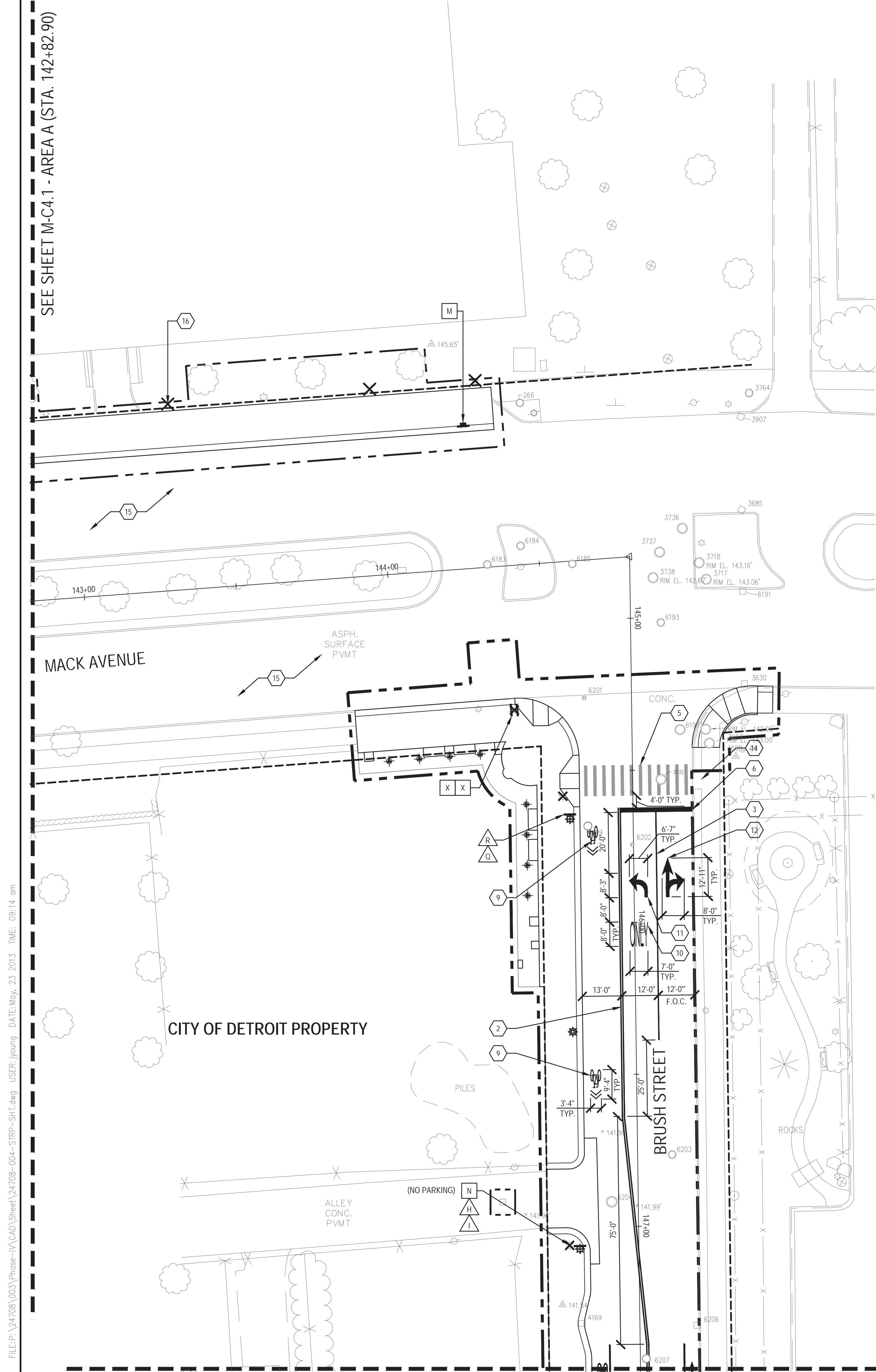
## SIGNAGE AND STRIPING PLAN - AREA A



PROJECT NUMBER

DRAWING NUMBER

**M-C4.1**



### MIDTOWN LOOP PHASE IV

#### SIGNAGE AND STRIPING KEY NOTES AND LEGEND

Symbol	Description	Code	Notes	Symbol	Description	Code
---	CONSTRUCTION LIMIT LINE	A	BANNERS AND BANNER ARMS	S	SIGN, TYPE IIIA (D3-1, VARIES X 8 INCH)	E MAY ST
---	RIGHT-OF-WAY	B	EMPTY STEEL POST	T	HOSPITAL SIGN	2
- - -	MATCH LINE	C	SIGN, TYPE IIIA (R1-1, 36 INCH X 36 INCH)	U	"TO NORTHBOUND JOHN R" SIGN	3
171+00	HORIZONTAL ALIGNMENT	D	SIGN, TYPE IIIA (R1-3a, 18 INCH X 6 INCH)	V	WSU COL. PHARMACY HARPER HOSPITAL KARmanos CANCER INSTITUTE VA MEDICAL CENTER" SIGN	4
STA-100+00 OFF:10.00L	STATION AND OFFSET POINT	E	SIGN, TYPE IIIB (R2-1, 30 INCH X 36 INCH)	W	"REHAB INST OF MI HARPER HOSPITAL" SIGN	5
↶	ADJACENT PROJECT	F	SIGN, TYPE IIIB (R3-1, 36 INCH X 36 INCH)	X	"STUDENT LOADING" SIGN	6
✗	SIGN, TYPE III, REM (INCLUDES SIGNS AND POSTS ONLY)	G	SIGN, TYPE IIIB (R3-2, 36 INCH X 36 INCH)	Y	"BUS STOP" SIGN	7
■	POST, STEEL, 3 LB AND PERFORATED STEEL SQUARE TUBE BREAKAWAY SYSTEM	H	SIGN, TYPE IIIB (R3-17, 24 INCH X 18 INCH)	Z	SMART BUS SIGN	8
A	SIGN, TYPE III, ERECT, SALV	I	SIGN, TYPE IIIB (R3-17AP, 24 INCH X 8 INCH)	AA	NEIGHBORHOOD WATCH SIGN	9
△	SIGN, TYPE III	J	SIGN, TYPE IIIB (R3-17BP, 24 INCH X 8 INCH)			10
⊕	SIGN TO REMAIN	K	SIGN, TYPE IIIA (R5-1, 36 INCH X 36 INCH)			11
⊙	FIXTURE TYPE M1 (REFER TO ELECTRICAL PLANS)	L	SIGN, TYPE IIIB (R6-1R, 54 INCH X 18 INCH)			12
⊙	FIXTURE TYPE M2, PLD (REFER TO ELECTRICAL PLANS)	M	SIGN, TYPE IIIB (R6-1L, 54 INCH X 18 INCH)			13
⊙	FIXTURE TYPE M3 (REFER TO ELECTRICAL PLANS)	N	SIGN, TYPE IIIB (R7-1, 12 INCH X 18 INCH)			14
⊙	FIXTURE TYPE M2, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)	O	SIGN, TYPE IIIB (W3-1A, 30 INCH X 30 INCH)			15
⊙	STREET LIGHT, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)	P	SIGN, TYPE IIIB (W4-2L, 36 INCH X 36 INCH)			16
		Q	SIGN, TYPE IIIB (W11-1, 30 INCH X 30 INCH)			17
		R	SIGN, TYPE IIIB (W16-1, 18 INCH X 24 INCH)			18

NOTE:  
1. REFER TO DRAWING G0.6 FOR SIGNAGE AND STRIPING NOTES.

#### M-C4.2 - SIGNAGE AND STRIPING

QTY	UNIT	ITEM DESCRIPTION
6	Ea	Sign, Type III, Rem
4	Ea	Sign, Type III, Erect, Salv
0	Sft	Sign, Type IIIA
28	Sft	Sign, Type IIIB
11	Ft	Post, Steel, 3 LB
1	Ea	Perforated Steel Square Tube Sign Breakaway System
144	Ft	Recessing Pavement Markings, Transv
75	Ft	Pavt Mrkg, Sprayable Thermopl, 4 inch, White
370	Ft	Pavt Mrkg, Sprayable Thermopl, 4 inch, Yellow
23	Ft	Pavt Mrkg, Sprayable Thermopl, 6 inch, White
120	Ft	Pavt Mrkg, Ovly Cold Plastic, 12 inch, Crosswalk
24	Ft	Pavt Mrkg, Ovly Cold Plastic, 18 inch, Stop Bar
1	Ea	Pavt Mrkg, Ovly Cold Plastic, Only
1	Ea	Pavt Mrkg, Ovly Cold Plastic, Lt Turn Arrow Sym
1	Ea	Pavt Mrkg, Ovly Cold Plastic, Thru and Rt Turn Arrow Sym
0	Ea	Pavt Mrkg, Ovly Cold Plastic, Bike
0	Ea	Pavt Mrkg, Ovly Cold Plastic, Direction Arrow Sym, Bike
0	Ea	Pavt Mrkg, Ovly Cold Plastic, Merge Arrow Symbol
2	Ea	Pavt Mrkg, Ovly Cold Plastic, Sharrow Sym

SEE SHEET M-C4.3 - AREA C (STA. 147+46.89)

## Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



Midtown Detroit, Inc.

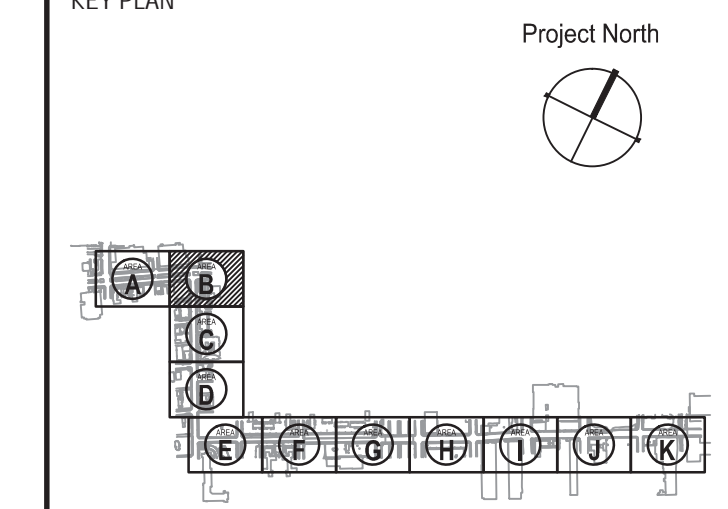
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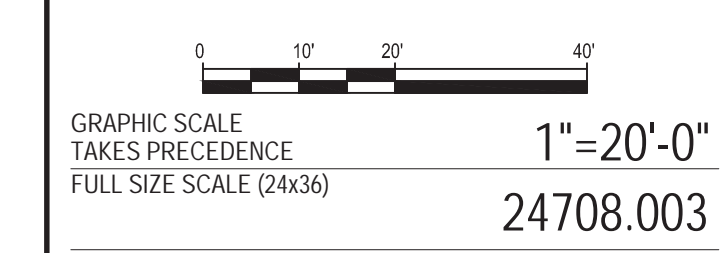
SEALS AND SIGNATURES

KEY PLAN



### DRAWING TITLE

## SIGNAGE AND STRIPING PLAN - AREA B



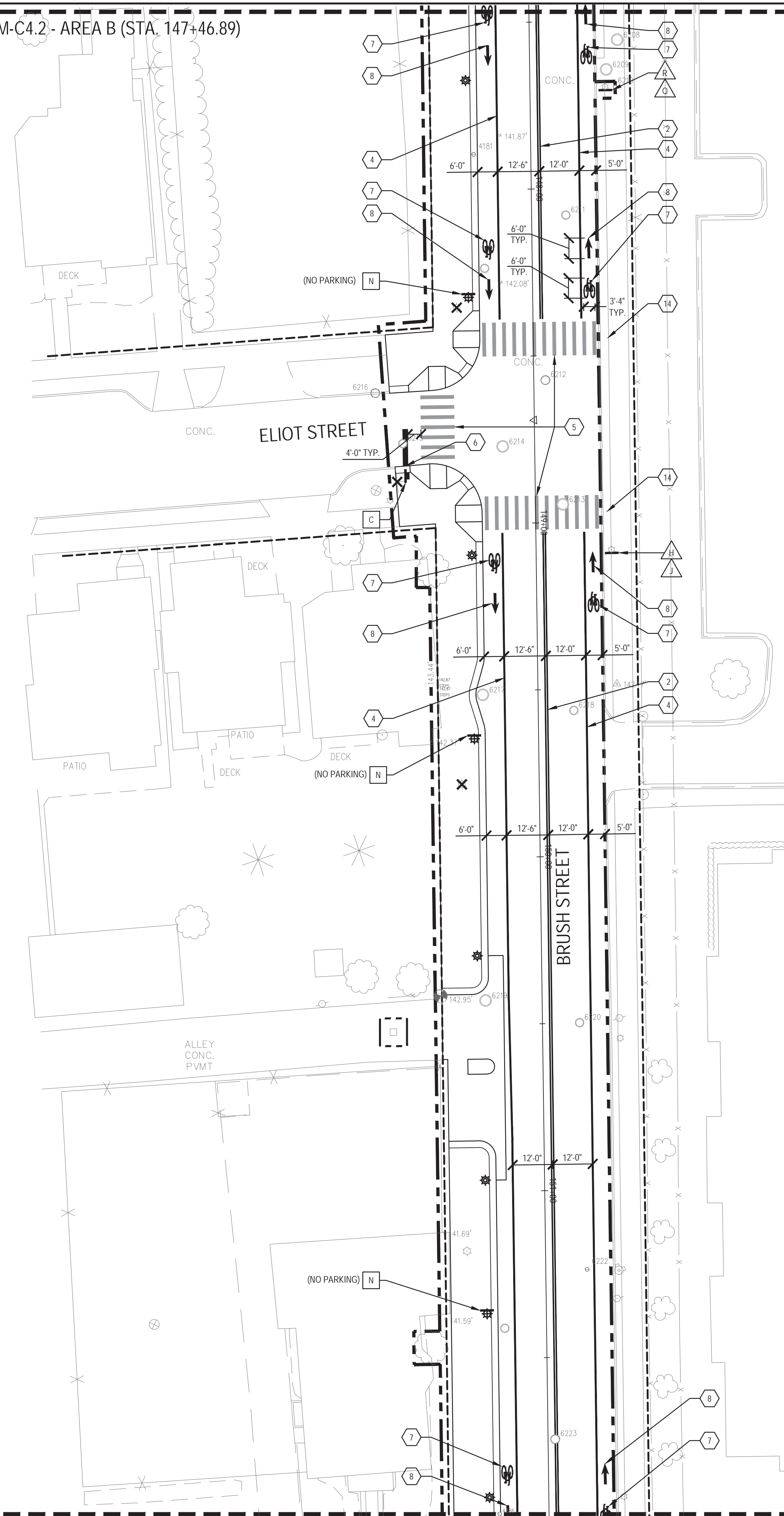
PROJECT NUMBER  
**M-C4.2**

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SEE SHEET M-C4.2 - AREA B (STA. 147+46.89)



MIDTOWN LOOP PHASE IV

SIGNAGE AND STRIPING KEY NOTES AND LEGEND

---	CONSTRUCTION LIMIT LINE	A	BANNERS AND BANNER ARMS	S	SIGN, TYPE IIIA (D3-1, VARIES X 8 INCH)	E MAY ST	1	PAVT MRKG, SPRAYABLE THERMOPL, 4 INCH, YELLOW
---	RIGHT-OF-WAY	B	EMPTY STEEL POST	T	HOSPITAL SIGN		2	PAVT MRKG, SPRAYABLE THERMOPL, 4 INCH, YELLOW (PROVIDE DOUBLE SOLID LINE AS SHOWN ON PLAN)
---	MATCH LINE	C	SIGN, TYPE IIIA (R1-1, 36 INCH X 36 INCH)	STOP	"TO NORTHBOUND JOHN R" SIGN		3	PAVT MRKG, SPRAYABLE THERMOPL, 4 INCH, WHITE
---	HORIZONTAL ALIGNMENT	D	SIGN, TYPE IIIA (R1-3a, 18 INCH X 6 INCH)	4-WAY	WSU COL PHARMACY HARPER HOSPITAL KARMANOS CANCER INSTITUTE VA MEDICAL CENTER" SIGN		4	PAVT MRKG, SPRAYABLE THERMOPL, 6 INCH, WHITE
---	STATION AND OFFSET POINT	E	SIGN, TYPE IIIB (R2-1, 30 INCH X 36 INCH)	SPEED LIMIT 25	"REHAB INST OF MI HARPER HOSPITAL" SIGN		5	PAVT MRKG, OVLY COLD PLASTIC, 12 INCH, CROSSWALK
---	ADJACENT PROJECT	F	SIGN, TYPE IIIB (R3-1, 36 INCH X 36 INCH)	R	"STUDENT LOADING" SIGN		6	PAVT MRKG, OVLY COLD PLASTIC, 18 INCH, STOP BAR
X	SIGN, TYPE III, REM (INCLUDES SIGNS AND POSTS ONLY)	G	SIGN, TYPE IIIB (R3-2, 36 INCH X 36 INCH)	U	"BUS STOP" SIGN		7	PAVT MRKG, OVLY COLD PLASTIC, BIKE
■	POST, STEEL, 3 LB AND PERFORATED STEEL SQUARE TUBE BREAKAWAY SYSTEM	H	SIGN, TYPE IIIB (R3-17, 24 INCH X 18 INCH)	B	SMART BUS SIGN		8	PAVT MRKG, OVLY COLD PLASTIC, DIRECTION ARROW SYM, BIKE
A	SIGN, TYPE III, ERECT, SALV	I	SIGN, TYPE IIIB (R3-17AP, 24 INCH X 8 INCH)	AHEAD	NEIGHBORHOOD WATCH SIGN		9	PAVT MRKG, OVLY COLD PLASTIC, SHARROW SYM
A	SIGN, TYPE III, REM	J	SIGN, TYPE IIIB (R3-17BP, 24 INCH X 8 INCH)	ENDS			10	PAVT MRKG, OVLY COLD PLASTIC, ONLY
A	SIGN TO REMAIN	K	SIGN, TYPE IIIA (R5-1, 36 INCH X 36 INCH)	DO NOT ENTER			11	PAVT MRKG, OVLY COLD PLASTIC, LT TURN ARROW SYM
⊙	_FIXTURE TYPE M1 (REFER TO ELECTRICAL PLANS)	L	SIGN, TYPE IIIB (R6-1R, 54 INCH X 18 INCH)	ONE WAY			12	PAVT MRKG, OVLY COLD PLASTIC, THRU AND RT TURN ARROW SYM
⊙	_FIXTURE TYPE M2, PLD (REFER TO ELECTRICAL PLANS)	M	SIGN, TYPE IIIB (R6-1L, 54 INCH X 18 INCH)	ONE WAY			13	PAVT MRKG, OVLY COLD PLASTIC, MERGE ARROW SYMBOL
⊙	_FIXTURE TYPE M3 (REFER TO ELECTRICAL PLANS)	N	SIGN, TYPE IIIB (R7-1, 12 INCH X 18 INCH)	NO STOPPING	NO PARKING	NO PARKING	14	EXISTING RAMP IN COMPLIANCE WITH ADA GUIDELINES AS APPROVED BY THE CITY OF DETROIT
⊙	_FIXTURE TYPE M2, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)	O	SIGN, TYPE IIIB (W3-1A, 30 INCH X 30 INCH)	STOP AHEAD			15	EXISTING LANE PAVT MRKG ON MACK AVE TO REMAIN
⊙	_STREET LIGHT, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)	P	SIGN, TYPE IIIB (W4-2L, 36 INCH X 36 INCH)	SHARE THE ROAD			16	SHUTTLE BUS SIGN. PROVIDE SIGN TO WSU. WSU TO REINSTALL.
		Q	SIGN, TYPE IIIB (W11-1, 30 INCH X 30 INCH)				17	EASTERN MARKET LOT 7 SIGN. PROVIDE SIGN TO EASTERN MARKET. EASTERN MARKET TO REINSTALL.
		R	SIGN, TYPE IIIB (W16-1, 18 INCH X 24 INCH)				18	EXISTING PAVEMENT MARKING TO REMAIN

NOTE:  
1. REFER TO DRAWING G0.6 FOR SIGNAGE AND STRIPING NOTES.

M-C4.3 - SIGNAGE AND STRIPING

QTY	UNIT	ITEM DESCRIPTION
3	Ea	Sign, Type III, Rem
4	Ea	Sign, Type III, Erect, Salv
0	Sft	Sign, Type IIIA
28	Sft	Sign, Type IIIB
11	Ft	Post, Steel, 3 LB
0	Ea	Perforated Steel Square Tube Sign Breakaway System
321	Ft	Recessing Pavement Markings, Transv
0	Ft	PavT Mrkg, Sprayable ThermoPl, 4 inch, White
772	Ft	PavT Mrkg, Sprayable ThermoPl, 4 inch, Yellow
772	Ft	PavT Mrkg, Sprayable ThermoPl, 6 inch, White
310	Ft	PavT Mrkg, Ovly Cold Plastic, 12 inch, Crosswalk
11	Ft	PavT Mrkg, Ovly Cold Plastic, 18 inch, Stop Bar
0	Ea	PavT Mrkg, Ovly Cold Plastic, Only
0	Ea	PavT Mrkg, Ovly Cold Plastic, Lt Turn Arrow Sym
0	Ea	PavT Mrkg, Ovly Cold Plastic, Thru and Rt Turn Arrow Sym
8	Ea	PavT Mrkg, Ovly Cold Plastic, Bike
8	Ea	PavT Mrkg, Ovly Cold Plastic, Direction Arrow Sym, Bike
0	Ea	PavT Mrkg, Ovly Cold Plastic, Merge Arrow Symbol
0	Ea	_PavT Mrkg, Ovly Cold Plastic, Sharrow Sym

SEE SHEET M-C4.4 - AREA D (STA. 151+96.93)

Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



Midtown Detroit, Inc.

SMITHGROUP JJR

201 DEPOT STREET  
SECOND FLOOR  
ANN ARBOR, MI 48104  
734.662.4457  
www.smithgroupjjr.com

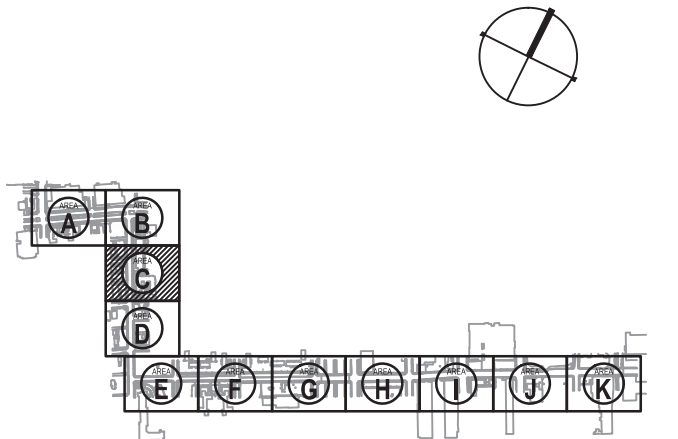
ISSUED FOR REV DATE

BIDDING DOCUMENTS	5	MAY 21, 2013
BIDDING DOCUMENTS	4	MAY 02, 2013
100% CONSTRUCTION DOCUMENTS	3	APR 01, 2013
GRADE INSPECTION	2	JAN 30, 2013
80% CONSTRUCTION DOCUMENTS	1	JAN 07, 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05, 2012

SEALS AND SIGNATURES

KEY PLAN

Project North



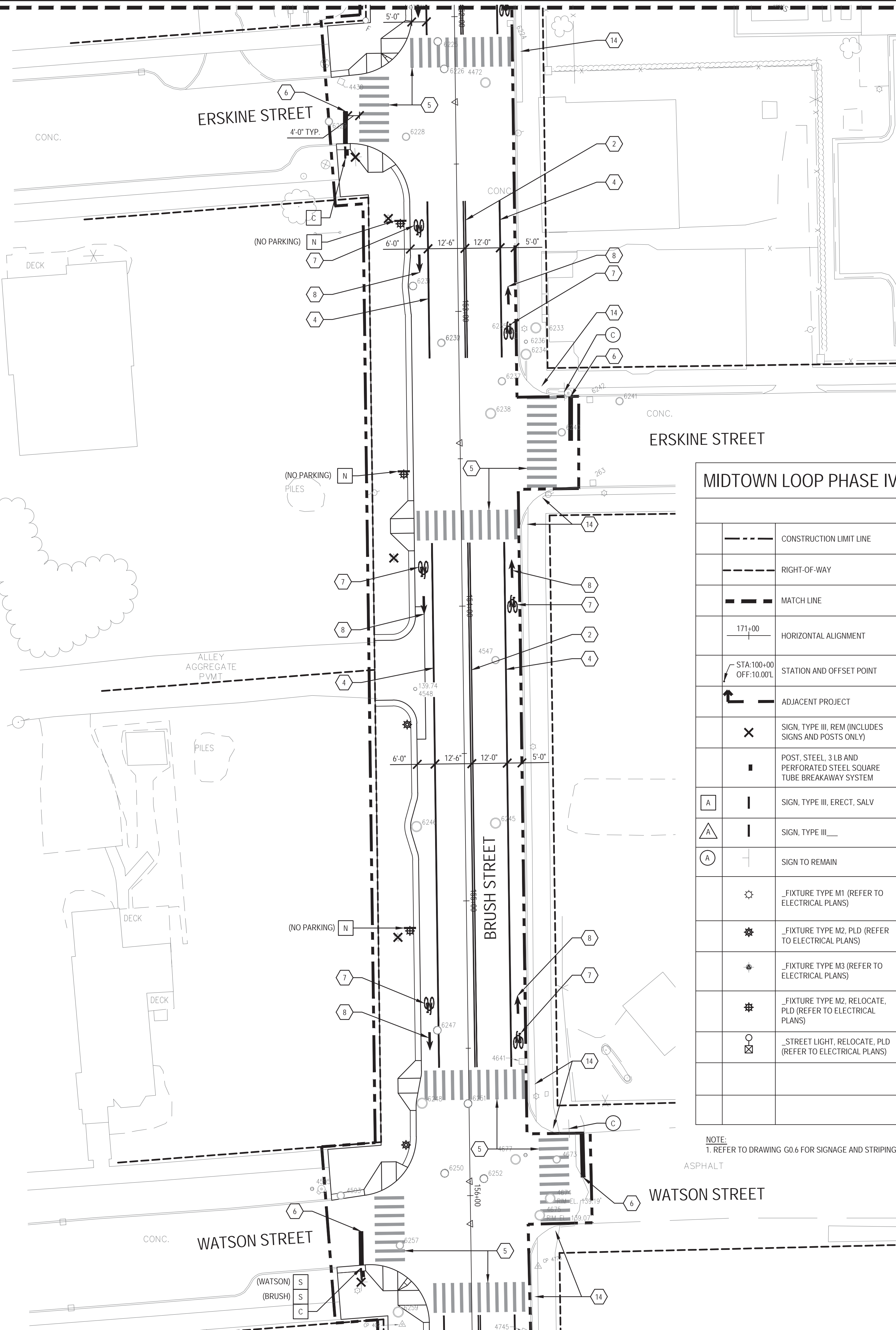
DRAWING TITLE  
SIGNAGE AND STRIPING  
PLAN - AREA C

GRAPHIC SCALE  
TAKES PRECEDENCE  
FULL SIZE SCALE (24x36)  
1" = 20'-0"  
24708.003

PROJECT NUMBER  
M-C4.3  
DRAWING NUMBER  
284 of 497



SEE SHEET M-C4.3 - AREA C (STA. 151+96.93)



M-C4.4 - SIGNAGE AND STRIPING

QTY	UNIT	ITEM DESCRIPTION
5	Ea	Sign, Type III, Rem
7	Ea	Sign, Type III, Erect, Salv
0	Slt	Sign, Type IIIA
0	Slt	Sign, Type IIIB
22	Ft	Post, Steel, 3 LB
2	Ea	Perforated Steel Square Tube Sign Breakaway System
893	Ft	Recessing Pavement Markings, Transv
0	Ft	Pav't Mrkg, Sprayable Thermopl, 4 inch, White
194	Ft	Pav't Mrkg, Sprayable Thermopl, 4 inch, Yellow
494	Ft	Pav't Mrkg, Sprayable Thermopl, 6 inch, White
840	Ft	Pav't Mrkg, Ovl'y Cold Plastic, 12 inch, Crosswalk
53	Ft	Pav't Mrkg, Ovl'y Cold Plastic, 18 inch, Stop Bar
0	Ea	Pav't Mrkg, Ovl'y Cold Plastic, Only
0	Ea	Pav't Mrkg, Ovl'y Cold Plastic, Lt Turn Arrow Sym
0	Ea	Pav't Mrkg, Ovl'y Cold Plastic, Thru and Rt Turn Arrow Sym
6	Ea	Pav't Mrkg, Ovl'y Cold Plastic, Bike
6	Ea	Pav't Mrkg, Ovl'y Cold Plastic, Direction Arrow Sym, Bike
0	Ea	Pav't Mrkg, Ovl'y Cold Plastic, Merge Arrow Symbol
0	Ea	Pav't Mrkg, Ovl'y Cold Plastic, Sharrow Sym

MIDTOWN LOOP PHASE IV

SIGNAGE AND STRIPING KEY NOTES AND LEGEND

Symbol	Description	Code	Item Description	Notes
---	CONSTRUCTION LIMIT LINE	A	BANNERS AND BANNER ARMS	S SIGN, TYPE IIIA (D3-1, VARIES X 8 INCH) <b>E MAY ST</b>
---	RIGHT-OF-WAY	B	EMPTY STEEL POST	T HOSPITAL SIGN
---	MATCH LINE	C	SIGN, TYPE IIIA (R1-1, 36 INCH X 36 INCH)	U "TO NORTHBOUND JOHN R" SIGN
171+00	HORIZONTAL ALIGNMENT	D	SIGN, TYPE IIIA (R1-3a, 18 INCH X 6 INCH)	V WSU COL PHARMACY HARPER HOSPITAL KARMANOS CANCER INSTITUTE VA MEDICAL CENTER SIGN
STA:100+00 OFF:10.00L	STATION AND OFFSET POINT	E	SIGN, TYPE IIIB (R2-1, 30 INCH X 36 INCH)	W "REHAB INST OF MI HARPER HOSPITAL" SIGN
↩	ADJACENT PROJECT	F	SIGN, TYPE IIIB (R3-1, 36 INCH X 36 INCH)	X "STUDENT LOADING" SIGN
✕	SIGN, TYPE III, REM (INCLUDES SIGNS AND POSTS ONLY)	G	SIGN, TYPE IIIB (R3-2, 36 INCH X 36 INCH)	Y "BUS STOP" SIGN
■	POST, STEEL, 3 LB AND PERFORATED STEEL SQUARE TUBE BREAKAWAY SYSTEM	H	SIGN, TYPE IIIB (R3-17, 24 INCH X 18 INCH)	Z SMART BUS SIGN
A	SIGN, TYPE III, ERECT, SALV	I	SIGN, TYPE IIIB (R3-17AP, 24 INCH X 8 INCH)	AA NEIGHBORHOOD WATCH SIGN
A	SIGN, TYPE III	J	SIGN, TYPE IIIB (R3-17BP, 24 INCH X 8 INCH)	ENDS
A	SIGN TO REMAIN	K	SIGN, TYPE IIIA (R5-1, 36 INCH X 36 INCH)	DO NOT ENTER
⚙	_FIXTURE TYPE M1 (REFER TO ELECTRICAL PLANS)	L	SIGN, TYPE IIIB (R6-1R, 54 INCH X 18 INCH)	ONE WAY
⚙	_FIXTURE TYPE M2, PLD (REFER TO ELECTRICAL PLANS)	M	SIGN, TYPE IIIB (R6-1L, 54 INCH X 18 INCH)	ONE WAY
⚙	_FIXTURE TYPE M3 (REFER TO ELECTRICAL PLANS)	N	SIGN, TYPE IIIB (R7-1, 12 INCH X 18 INCH)	NO STOPPING NO PARKING NO STANDING NO TRUCKS
⚙	_FIXTURE TYPE M2, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)	O	SIGN, TYPE IIIB (W3-1A, 30 INCH X 30 INCH)	STOP AHEAD
⚙	_STREET LIGHT, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)	P	SIGN, TYPE IIIB (W4-2L, 36 INCH X 36 INCH)	FI
		Q	SIGN, TYPE IIIB (W11-1, 30 INCH X 30 INCH)	SHARE THE ROAD
		R	SIGN, TYPE IIIB (W16-1, 18 INCH X 24 INCH)	Bike

NOTE:  
T. REFER TO DRAWING G06 FOR SIGNAGE AND STRIPING NOTES.

Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



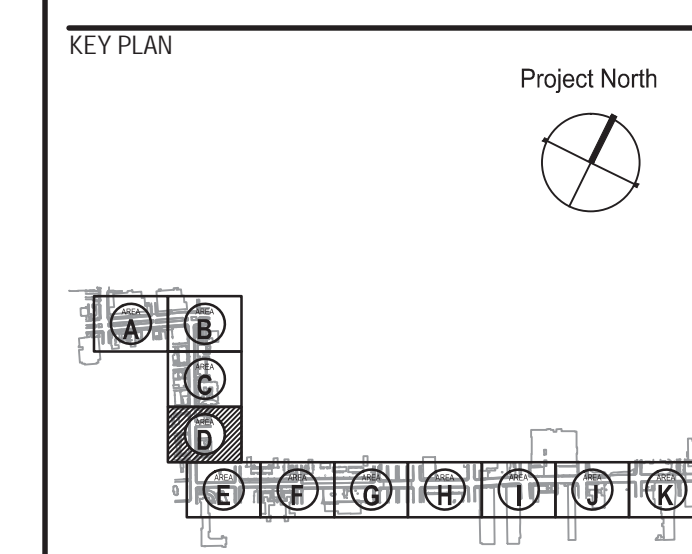
Midtown Detroit, Inc.

SMITHGROUP JJR

201 DEPOT STREET  
SECOND FLOOR  
ANN ARBOR, MI 48104  
734.662.4457  
www.smithgroupjjr.com

ISSUED FOR	REV	DATE
BIDDING DOCUMENTS	5	MAY 21 2013
BIDDING DOCUMENTS	4	MAY 02 2013
100% CONSTRUCTION DOCUMENTS	3	APR 01 2013
GRADE INSPECTION	2	JAN 30 2013
80% CONSTRUCTION DOCUMENTS	1	JAN 07 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05 2012

SEALS AND SIGNATURES



DRAWING TITLE  
SIGNAGE AND STRIPING  
PLAN - AREA D

GRAPHIC SCALE  
TAKES PRECEDENCE  
FULL SIZE SCALE (24x36)  
1" = 20'-0"  
24708.003

PROJECT NUMBER  
M-C4.4  
DRAWING NUMBER  
285 of 497

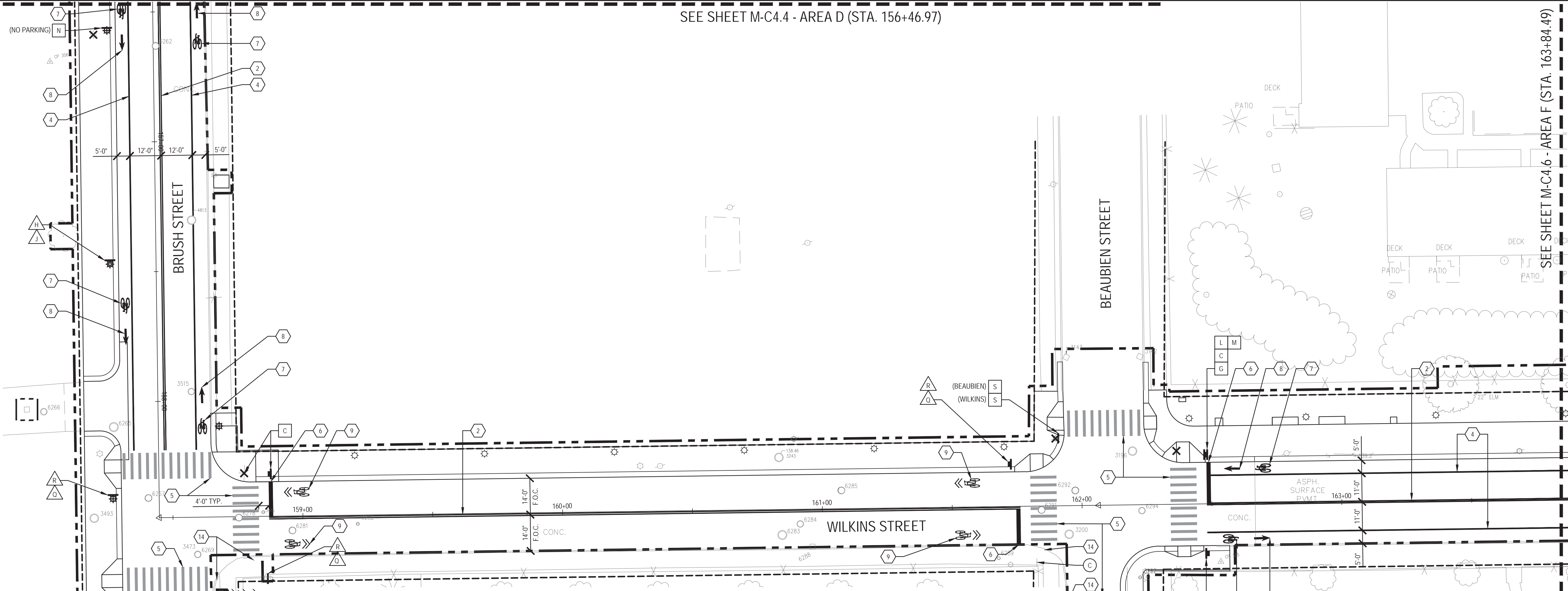
SEE SHEET M-C4.5 - AREA E (STA. 156+46.97)



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SEE SHEET M-C4.4 - AREA D (STA. 156+46.97)

SEE SHEET M-C4.6 - AREA F (STA. 163+84.49)



MIDTOWN LOOP PHASE IV

SIGNAGE AND STRIPING KEY NOTES AND LEGEND

Symbol	Description	Code	Notes	Item	Material/Spec
---	CONSTRUCTION LIMIT LINE	A	BANNERS AND BANNER ARMS	S	SIGN, TYPE IIIA (D3-1, VARIES X 8 INCH)
---	RIGHT-OF-WAY	B	EMPTY STEEL POST	T	HOSPITAL SIGN
---	MATCH LINE	C	SIGN, TYPE IIIA (R1-1, 36 INCH X 36 INCH)	U	"TO NORTHBROAD JOHN R" SIGN
---	HORIZONTAL ALIGNMENT	D	SIGN, TYPE IIIA (R1-3a, 18 INCH X 6 INCH)	V	WSU COL PHARMACY HARPER HOSPITAL KARMANOS CANCER INSTITUTE VA MEDICAL CENTER" SIGN
---	STATION AND OFFSET POINT	E	SIGN, TYPE IIIB (R2-1, 30 INCH X 36 INCH)	W	"REHAB INST OF MI HARPER HOSPITAL" SIGN
---	ADJACENT PROJECT	F	SIGN, TYPE IIIB (R3-1, 36 INCH X 36 INCH)	X	"STUDENT LOADING" SIGN
---	SIGN, TYPE III, REM (INCLUDES SIGNS AND POSTS ONLY)	G	SIGN, TYPE IIIB (R3-2, 36 INCH X 36 INCH)	Y	"BUS STOP" SIGN
---	POST, STEEL, 3 LB AND PERFORATED STEEL SQUARE TUBE BREAKAWAY SYSTEM	H	SIGN, TYPE IIIB (R3-17, 24 INCH X 18 INCH)	Z	SMART BUS SIGN
---	SIGN, TYPE III, ERECT, SALV	I	SIGN, TYPE IIIB (R3-17AP, 24 INCH X 8 INCH)	AA	NEIGHBORHOOD WATCH SIGN
---	SIGN, TYPE III, _____	J	SIGN, TYPE IIIB (R3-17BP, 24 INCH X 8 INCH)		
---	SIGN TO REMAIN	K	SIGN, TYPE IIIA (R5-1, 36 INCH X 36 INCH)		
---	_FIXTURE TYPE M1 (REFER TO ELECTRICAL PLANS)	L	SIGN, TYPE IIIB (R6-1R, 54 INCH X 18 INCH)		
---	_FIXTURE TYPE M2, PLD (REFER TO ELECTRICAL PLANS)	M	SIGN, TYPE IIIB (R6-1L, 54 INCH X 18 INCH)		
---	_FIXTURE TYPE M3 (REFER TO ELECTRICAL PLANS)	N	SIGN, TYPE IIIB (R7-1, 12 INCH X 18 INCH)		
---	_FIXTURE TYPE M2, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)	O	SIGN, TYPE IIIB (W3-1A, 30 INCH X 30 INCH)		
---	_STREET LIGHT, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)	P	SIGN, TYPE IIIB (W4-2L, 36 INCH X 36 INCH)		
---		Q	SIGN, TYPE IIIB (W11-1, 30 INCH X 30 INCH)		
---		R	SIGN, TYPE IIIB (W16-1, 18 INCH X 24 INCH)		

M-C4.5 - SIGNAGE AND STRIPING

QTY	UNIT	ITEM DESCRIPTION
4	Ea	Sign, Type III, Rem
8	Ea	Sign, Type III, Erect, Salv
0	Sft	Sign, Type IIIA
91	Sft	Sign, Type IIIB
45	Ft	Post, Steel, 3 LB
4	Ea	Perforated Steel Square Tube Sign Breakaway System
724	Ft	Recessing Pavement Markings, Transv
0	Ft	Pav't Mrkg, Sprayable ThermoPl, 4 inch, White
1370	Ft	Pav't Mrkg, Sprayable ThermoPl, 4 inch, Yellow
615	Ft	Pav't Mrkg, Sprayable ThermoPl, 6 inch, White
680	Ft	Pav't Mrkg, Ovly Cold Plastic, 12 inch, Crosswalk
44	Ft	Pav't Mrkg, Ovly Cold Plastic, 18 inch, Stop Bar
0	Ea	Pav't Mrkg, Ovly Cold Plastic, Only
0	Ea	Pav't Mrkg, Ovly Cold Plastic, Lt Turn Arrow Sym
0	Ea	Pav't Mrkg, Ovly Cold Plastic, Thru and Rt Turn Arrow Sym
6	Ea	Pav't Mrkg, Ovly Cold Plastic, Bike
6	Ea	Pav't Mrkg, Ovly Cold Plastic, Direction Arrow Sym, Bike
2	Ea	Pav't Mrkg, Ovly Cold Plastic, Merge Arrow Symbol
4	Ea	Pav't Mrkg, Ovly Cold Plastic, Sharrow Sym

NOTE:  
1. REFER TO DRAWING G0.6 FOR SIGNAGE AND STRIPING NOTES.

Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



Midtown Detroit, Inc.

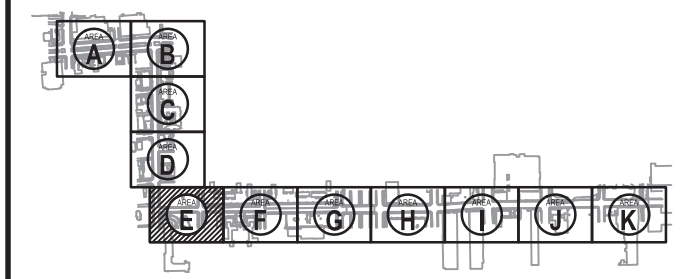
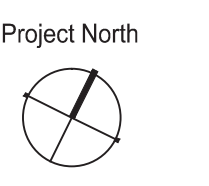
SMITHGROUP JJR

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ISSUED FOR	REV	DATE
BIDDING DOCUMENTS	5	MAY 21 2013
BIDDING DOCUMENTS	4	MAY 02 2013
100% CONSTRUCTION DOCUMENTS	3	APR 01 2013
GRADE INSPECTION	2	JAN 30 2013
80% CONSTRUCTION DOCUMENTS	1	JAN 07 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05 2012

SEALS AND SIGNATURES

KEY PLAN



DRAWING TITLE  
SIGNAGE AND STRIPING  
PLAN - AREA E

GRAPHIC SCALE  
TAKES PRECEDENCE  
FULL SIZE SCALE (24x36)  
1"=20'-0"  
24708.003

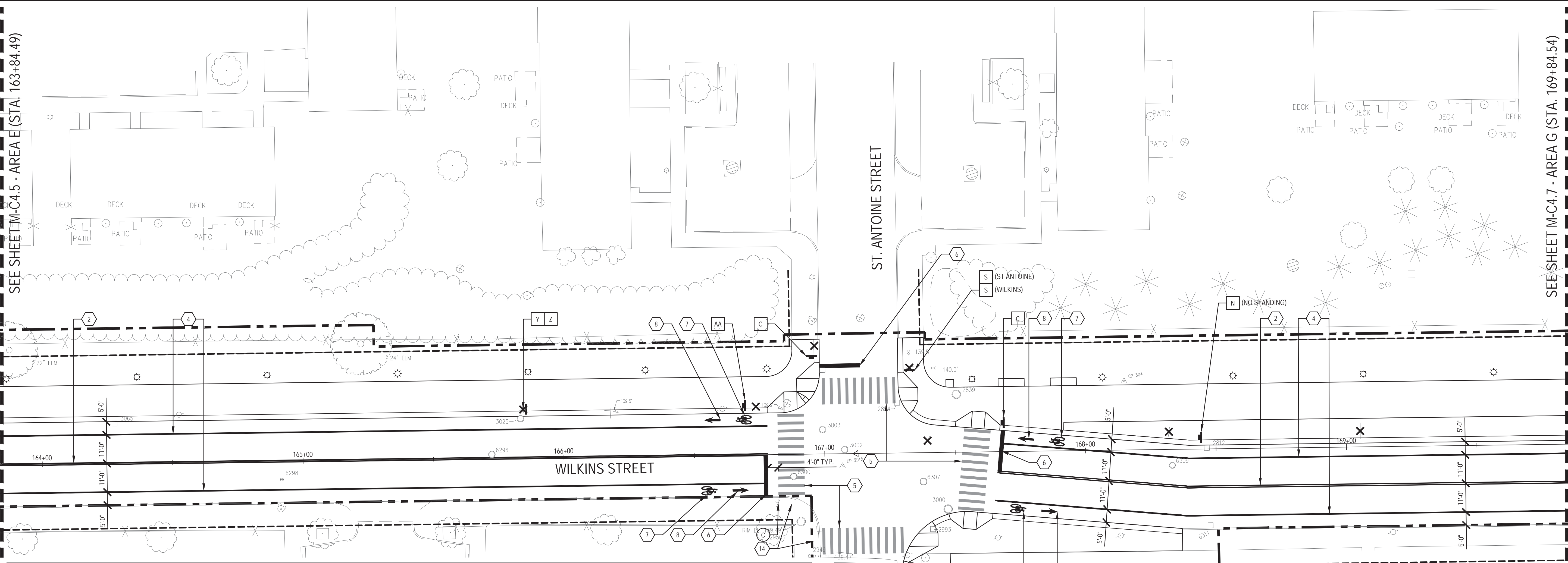
PROJECT NUMBER  
M-C4.5  
DRAWING NUMBER  
286 of 497



FILE: P:\24708\003\Phase-IV\CAD\Sheet\24708-004-STRIP-SHT.dwg USER: jyoung DATE: May 23 2013 TIME: 09:15 am

SEE SHEET M-C4.5 - AREA E (STA. 163+84.49)

SEE SHEET M-C4.7 - AREA G (STA. 169+84.54)



MIDTOWN LOOP PHASE IV

SIGNAGE AND STRIPING KEY NOTES AND LEGEND			
	CONSTRUCTION LIMIT LINE	A	BANNERS AND BANNER ARMS
	RIGHT-OF-WAY	B	EMPTY STEEL POST
	MATCH LINE	C	SIGN, TYPE IIIA (R1-1, 36 INCH X 36 INCH)
	HORIZONTAL ALIGNMENT	D	SIGN, TYPE IIIA (R1-3a, 18 INCH X 6 INCH)
	STATION AND OFFSET POINT	E	SIGN, TYPE IIIB (R2-1, 30 INCH X 36 INCH)
	ADJACENT PROJECT	F	SIGN, TYPE IIIB (R3-1, 36 INCH X 36 INCH)
	SIGN, TYPE III, REM (INCLUDES SIGNS AND POSTS ONLY)	G	SIGN, TYPE IIIB (R3-2, 36 INCH X 36 INCH)
	POST, STEEL, 3 LB AND PERFORATED STEEL SQUARE TUBE BREAKAWAY SYSTEM	H	SIGN, TYPE IIIB (R3-17, 24 INCH X 18 INCH)
	SIGN, TYPE III, ERECT, SALV	I	SIGN, TYPE IIIB (R3-17AP, 24 INCH X 8 INCH)
	SIGN, TYPE III, _____	J	SIGN, TYPE IIIB (R3-17BP, 24 INCH X 8 INCH)
	SIGN TO REMAIN	K	SIGN, TYPE IIIA (R5-1, 36 INCH X 36 INCH)
	_FIXTURE TYPE M1 (REFER TO ELECTRICAL PLANS)	L	SIGN, TYPE IIIB (R6-1R, 54 INCH X 18 INCH)
	_FIXTURE TYPE M2, PLD (REFER TO ELECTRICAL PLANS)	M	SIGN, TYPE IIIB (R6-1L, 54 INCH X 18 INCH)
	_FIXTURE TYPE M3 (REFER TO ELECTRICAL PLANS)	N	SIGN, TYPE IIIB (R7-1, 12 INCH X 18 INCH)
	_FIXTURE TYPE M2, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)	O	SIGN, TYPE IIIB (W3-1A, 30 INCH X 30 INCH)
	_STREET LIGHT, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)	P	SIGN, TYPE IIIB (W4-2L, 36 INCH X 36 INCH)
	SIGN, TYPE IIIB (W11-1, 30 INCH X 30 INCH)	Q	SIGN, TYPE IIIB (W11-1, 30 INCH X 30 INCH)
	SIGN, TYPE IIIB (W16-1, 18 INCH X 24 INCH)	R	SIGN, TYPE IIIB (W16-1, 18 INCH X 24 INCH)
	SIGN, TYPE IIIA (D3-1, VARIES X 8 INCH)	S	SIGN, TYPE IIIA (D3-1, VARIES X 8 INCH)
	HOSPITAL SIGN	T	HOSPITAL SIGN
	"TO NORTHBROUND JOHN R" SIGN	U	"TO NORTHBROUND JOHN R" SIGN
	WSU COL PHARMACY HARPER HOSPITAL KARMANOS CANCER INSTITUTE VA MEDICAL CENTER" SIGN	V	WSU COL PHARMACY HARPER HOSPITAL KARMANOS CANCER INSTITUTE VA MEDICAL CENTER" SIGN
	"REHAB INST OF MI HARPER HOSPITAL" SIGN	W	"REHAB INST OF MI HARPER HOSPITAL" SIGN
	"STUDENT LOADING" SIGN	X	"STUDENT LOADING" SIGN
	"BUS STOP" SIGN	Y	"BUS STOP" SIGN
	SMART BUS SIGN	Z	SMART BUS SIGN
	NEIGHBORHOOD WATCH SIGN	AA	NEIGHBORHOOD WATCH SIGN
	PAVT MRKG, OVLV COLD PLASTIC, ONLY		PAVT MRKG, OVLV COLD PLASTIC, ONLY
	PAVT MRKG, OVLV COLD PLASTIC, LT TURN ARROW SYM		PAVT MRKG, OVLV COLD PLASTIC, LT TURN ARROW SYM
	PAVT MRKG, OVLV COLD PLASTIC, THRU AND RT TURN ARROW SYM		PAVT MRKG, OVLV COLD PLASTIC, THRU AND RT TURN ARROW SYM
	PAVT MRKG, OVLV COLD PLASTIC, MERGE ARROW SYMBOL		PAVT MRKG, OVLV COLD PLASTIC, MERGE ARROW SYMBOL
	EXISTING RAMP IN COMPLIANCE WITH ADA GUIDELINES AS APPROVED BY THE CITY OF DETROIT		EXISTING RAMP IN COMPLIANCE WITH ADA GUIDELINES AS APPROVED BY THE CITY OF DETROIT
	EXISTING LANE PAVT MRKG ON MACK AVE TO REMAIN		EXISTING LANE PAVT MRKG ON MACK AVE TO REMAIN
	SHUTTLE BUS SIGN. PROVIDE SIGN TO WSU. WSU TO REINSTALL.		SHUTTLE BUS SIGN. PROVIDE SIGN TO WSU. WSU TO REINSTALL.
	EASTERN MARKET LOT 7 SIGN. PROVIDE SIGN TO EASTERN MARKET. EASTERN MARKET TO REINSTALL.		EASTERN MARKET LOT 7 SIGN. PROVIDE SIGN TO EASTERN MARKET. EASTERN MARKET TO REINSTALL.
	EXISTING PAVEMENT MARKING TO REMAIN		EXISTING PAVEMENT MARKING TO REMAIN

M-C4.6 - SIGNAGE AND STRIPING

QTY	UNIT	ITEM DESCRIPTION
8	Ea	Sign, Type III, Rem
9	Ea	Sign, Type III, Erect, Salv
0	Sft	Sign, Type IIIA
0	Sft	Sign, Type IIIB
53	Ft	Post, Steel, 3 LB
5	Ea	Perforated Steel Square Tube Sign Breakaway System
493	Ft	Recessing Pavement Markings, Transv
0	Ft	Pav't Mrkg, Sprayable Thermopl, 4 inch, White
1318	Ft	Pav't Mrkg, Sprayable Thermopl, 4 inch, Yellow
1022	Ft	Pav't Mrkg, Sprayable Thermopl, 6 inch, White
430	Ft	Pav't Mrkg, Ovlv Cold Plastic, 12 inch, Crosswalk
63	Ft	Pav't Mrkg, Ovlv Cold Plastic, 18 inch, Stop Bar
0	Ea	Pav't Mrkg, Ovlv Cold Plastic, Only
0	Ea	Pav't Mrkg, Ovlv Cold Plastic, Lt Turn Arrow Sym
0	Ea	Pav't Mrkg, Ovlv Cold Plastic, Thru and Rt Turn Arrow Sym
4	Ea	Pav't Mrkg, Ovlv Cold Plastic, Bike
4	Ea	Pav't Mrkg, Ovlv Cold Plastic, Direction Arrow Sym, Bike
0	Ea	Pav't Mrkg, Ovlv Cold Plastic, Merge Arrow Symbol
0	Ea	Pav't Mrkg, Ovlv Cold Plastic, Sharrow Sym

NOTE:  
1. REFER TO DRAWING G0.6 FOR SIGNAGE AND STRIPING NOTES.

Midtown Loop  
Phase IV  
Midtown Loop  
Detroit, Michigan

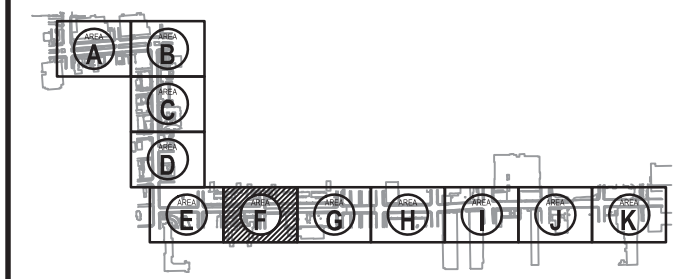


**MIDTOWN**  
DETROIT  
Midtown Detroit, Inc.  
**SMITHGROUP JJR**  
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SECOND FLOOR  
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BIDDING DOCUMENTS	5	MAY 21, 2013
BIDDING DOCUMENTS	4	MAY 02, 2013
100% CONSTRUCTION DOCUMENTS	3	APR 01, 2013
GRADE INSPECTION	2	JAN 30, 2013
80% CONSTRUCTION DOCUMENTS	1	JAN 07, 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05, 2012

SEALS AND SIGNATURES

KEY PLAN  
Project North



DRAWING TITLE  
SIGNAGE AND STRIPING  
PLAN - AREA F

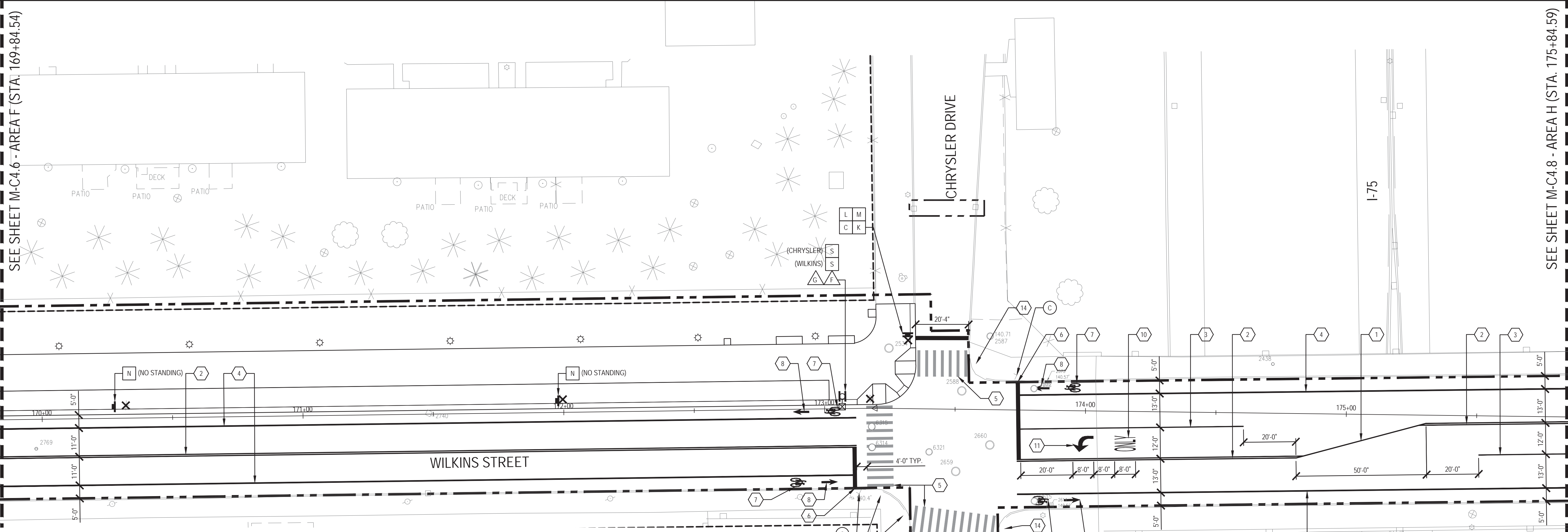
GRAPHIC SCALE  
TAKES PRECEDENCE  
FULL SIZE SCALE (24x36)  
1" = 20'-0"  
24708.003

PROJECT NUMBER  
M-C4.6  
DRAWING NUMBER  
287 of 497



SEE SHEET M-C4.6 - AREA F (STA. 169+84.54)

SEE SHEET M-C4.8 - AREA H (STA. 175+84.59)



MIDTOWN LOOP PHASE IV

SIGNAGE AND STRIPING KEY NOTES AND LEGEND					
	CONSTRUCTION LIMIT LINE	A	BANNERS AND BANNER ARMS	S	SIGN, TYPE IIIA (D3-1, VARIES X 8 INCH)
	RIGHT-OF-WAY	B	EMPTY STEEL POST	T	HOSPITAL SIGN
	MATCH LINE	C	SIGN, TYPE IIIA (R1-1, 36 INCH X 36 INCH)	U	"TO NORTHBROUND JOHN R" SIGN
	HORIZONTAL ALIGNMENT	D	SIGN, TYPE IIIA (R1-3a, 18 INCH X 6 INCH)	V	WSU COL PHARMACY HARPER HOSPITAL KARMANOS CANCER INSTITUTE VA MEDICAL CENTER" SIGN
	STATION AND OFFSET POINT	E	SIGN, TYPE IIIB (R2-1, 30 INCH X 36 INCH)	W	"REHAB INST OF MI HARPER HOSPITAL" SIGN
	ADJACENT PROJECT	F	SIGN, TYPE IIIB (R3-1, 36 INCH X 36 INCH)	X	"STUDENT LOADING" SIGN
	SIGN, TYPE III, REM (INCLUDES SIGNS AND POSTS ONLY)	G	SIGN, TYPE IIIB (R3-2, 36 INCH X 36 INCH)	Y	"BUS STOP" SIGN
	POST, STEEL, 3 LB AND PERFORATED STEEL SQUARE TUBE BREAKAWAY SYSTEM	H	SIGN, TYPE IIIB (R3-17, 24 INCH X 18 INCH)	Z	SMART BUS SIGN
	SIGN, TYPE III, ERCT, SALV	I	SIGN, TYPE IIIB (R3-17AP, 24 INCH X 8 INCH)	AA	NEIGHBORHOOD WATCH SIGN
	SIGN, TYPE III	J	SIGN, TYPE IIIB (R3-17BP, 24 INCH X 8 INCH)		
	SIGN TO REMAIN	K	SIGN, TYPE IIIA (R5-1, 36 INCH X 36 INCH)		
	_FIXTURE TYPE M1 (REFER TO ELECTRICAL PLANS)	L	SIGN, TYPE IIIB (R6-1R, 54 INCH X 18 INCH)		
	_FIXTURE TYPE M2, PLD (REFER TO ELECTRICAL PLANS)	M	SIGN, TYPE IIIB (R6-1L, 54 INCH X 18 INCH)		
	_FIXTURE TYPE M3 (REFER TO ELECTRICAL PLANS)	N	SIGN, TYPE IIIB (R7-1, 12 INCH X 18 INCH)		
	_FIXTURE TYPE M2, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)	O	SIGN, TYPE IIIA (W3-1A, 30 INCH X 30 INCH)		
	_STREET LIGHT, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)	P	SIGN, TYPE IIIB (W4-2L, 36 INCH X 36 INCH)		
		Q	SIGN, TYPE IIIB (W11-1, 30 INCH X 30 INCH)		
		R	SIGN, TYPE IIIB (W16-1, 18 INCH X 24 INCH)		

NOTE:  
1. REFER TO DRAWING G0.6 FOR SIGNAGE AND STRIPING NOTES.

M-C4.7 - SIGNAGE AND STRIPING

QTY	UNIT	ITEM DESCRIPTION
4	Ea	Sign, Type III, Rem
8	Ea	Sign, Type III, Erect, Salv
0	Sft	Sign, Type IIIA
14	Sft	Sign, Type IIIB
33	Ft	Post, Steel, 3 LB
3	Ea	Perforated Steel Square Tube Sign Breakaway System
373	Ft	Recessing Pavement Markings, Transv
120	Ft	Pav Mrkg, Sprayable Thermopl, 4 inch, White
1034	Ft	Pav Mrkg, Sprayable Thermopl, 4 inch, Yellow
1075	Ft	Pav Mrkg, Sprayable Thermopl, 6 inch, White
290	Ft	Pav Mrkg, Ovlv Cold Plastic, 12 inch, Crosswalk
83	Ft	Pav Mrkg, Ovlv Cold Plastic, 18 inch, Stop Bar
1	Ea	Pav Mrkg, Ovlv Cold Plastic, Only
1	Ea	Pav Mrkg, Ovlv Cold Plastic, Lt Turn Arrow Sym
0	Ea	Pav Mrkg, Ovlv Cold Plastic, Thru and Rt Turn Arrow Sym
4	Ea	Pav Mrkg, Ovlv Cold Plastic, Bike
4	Ea	Pav Mrkg, Ovlv Cold Plastic, Direction Arrow Sym, Bike
0	Ea	Pav Mrkg, Ovlv Cold Plastic, Merge Arrow Symbol
0	Ea	_Pav Mrkg, Ovlv Cold Plastic, Sharrow Sym

Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



Midtown Detroit, Inc.

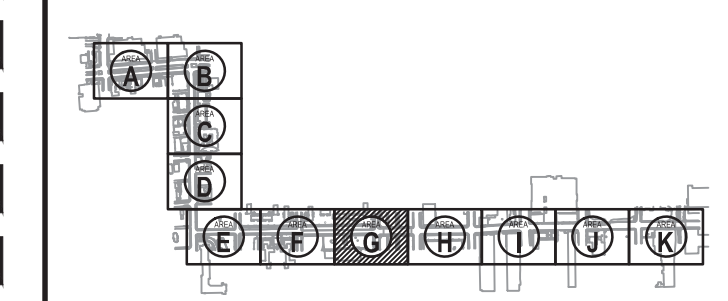
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SEALS AND SIGNATURES

KEY PLAN



DRAWING TITLE  
SIGNAGE AND STRIPING  
PLAN - AREA G

GRAPHIC SCALE  
TAKES PRECEDENCE  
FULL SIZE SCALE (24x36)  
1" = 20'-0"  
24708.003

PROJECT NUMBER

DRAWING NUMBER  
M-C4.7



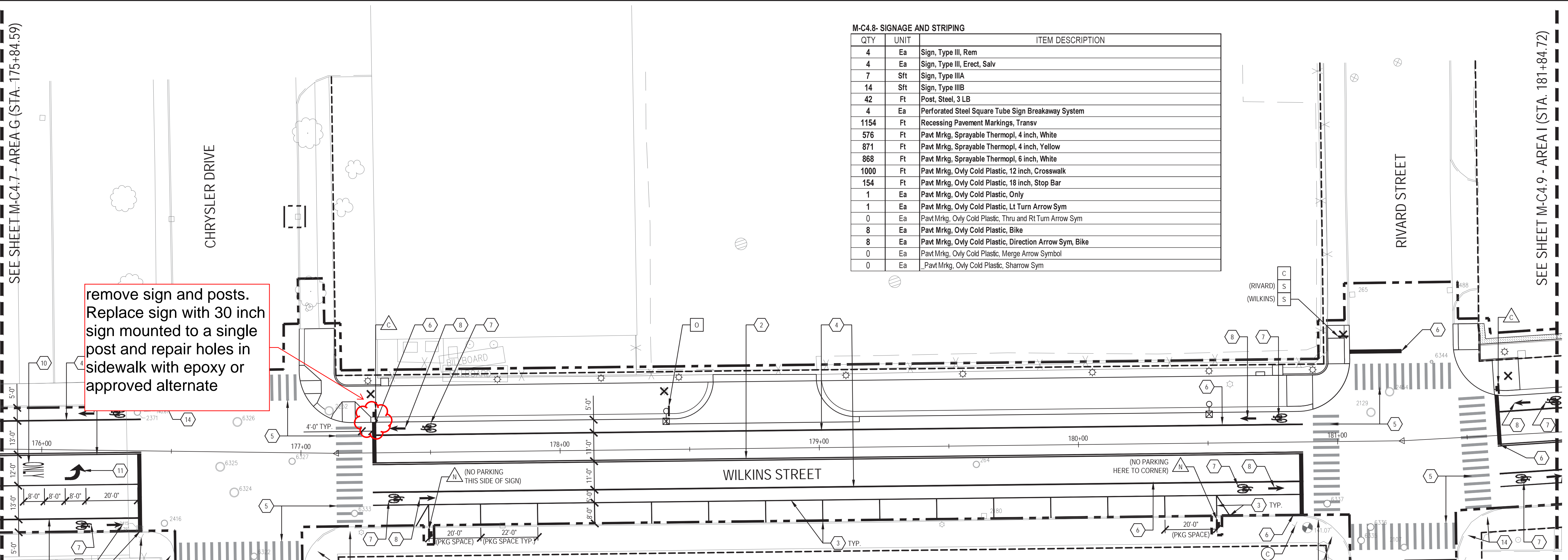
3 WORKING DAYS BEFORE YOU DIG  
CALL MISS DIG  
1-800-482-7171

FILE: P:\24708\003\Phase-IV\CAD\Sheet\24708-004-SIRP-SHT.dwg USER: jyoung DATE: May 23 2013 TIME: 09:15 am



SEE SHEET M-C4.7 - AREA G (STA. 175+84.59)

SEE SHEET M-C4.9 - AREA I (STA. 181+84.72)



remove sign and posts. Replace sign with 30 inch sign mounted to a single post and repair holes in sidewalk with epoxy or approved alternate

replace sign with 30 inch x 30 inch stop sign

**M-C4.8- SIGNAGE AND STRIPING**

QTY	UNIT	ITEM DESCRIPTION
4	Ea	Sign, Type III, Rem
4	Ea	Sign, Type III, Erect, Salv
7	Sft	Sign, Type IIIA
14	Sft	Sign, Type IIIB
42	Ft	Post, Steel, 3 LB
4	Ea	Perforated Steel Square Tube Sign Breakaway System
1154	Ft	Recessing Pavement Markings, Transv
576	Ft	Pavt Mrkg, Sprayable Thermopl, 4 inch, White
871	Ft	Pavt Mrkg, Sprayable Thermopl, 4 inch, Yellow
868	Ft	Pavt Mrkg, Sprayable Thermopl, 6 inch, White
1000	Ft	Pavt Mrkg, Ovly Cold Plastic, 12 inch, Crosswalk
154	Ft	Pavt Mrkg, Ovly Cold Plastic, 18 inch, Stop Bar
1	Ea	Pavt Mrkg, Ovly Cold Plastic, Only
1	Ea	Pavt Mrkg, Ovly Cold Plastic, Lt Turn Arrow Sym
0	Ea	Pavt Mrkg, Ovly Cold Plastic, Thru and Rt Turn Arrow Sym
8	Ea	Pavt Mrkg, Ovly Cold Plastic, Bike
8	Ea	Pavt Mrkg, Ovly Cold Plastic, Direction Arrow Sym, Bike
0	Ea	Pavt Mrkg, Ovly Cold Plastic, Merge Arrow Symbol
0	Ea	Pavt Mrkg, Ovly Cold Plastic, Sharrow Sym

**MIDTOWN LOOP PHASE IV**

**SIGNAGE AND STRIPING**

SYMBOL	DESCRIPTION	ITEM	ITEM DESCRIPTION	ITEM	ITEM DESCRIPTION
---	CONSTRUCTION LIMIT LINE	A	BANNERS AND BANNER ARMS	VARIES X 8 INCH)	PAVT MRKG, SPRAYABLE THERMOPL, 4 INCH, YELLOW
---	RIGHT-OF-WAY	B	EMPTY STEEL POST	HOSPITAL SIGN	PAVT MRKG, SPRAYABLE THERMOPL, 4 INCH, YELLOW (PROVIDE DOUBLE SOLID LINE AS SHOWN ON PLAN)
---	MATCH LINE	C	SIGN, TYPE IIIA (R1-1, 36 INCH X 36 INCH)	STOP	PAVT MRKG, SPRAYABLE THERMOPL, 4 INCH, WHITE
171+00	HORIZONTAL ALIGNMENT	D	SIGN, TYPE IIIA (R1-3a, 18 INCH X 6 INCH)	4-WAY	PAVT MRKG, SPRAYABLE THERMOPL, 6 INCH, WHITE
STA:100+00 OFF:10.00'L	STATION AND OFFSET POINT	E	SIGN, TYPE IIIB (R2-1, 30 INCH X 36 INCH)	SPEED LIMIT 25	PAVT MRKG, OVLY COLD PLASTIC, 12 INCH, CROSSWALK
↪	ADJACENT PROJECT	F	SIGN, TYPE IIIB (R3-1, 36 INCH X 36 INCH)	STUDENT LOADING	PAVT MRKG, OVLY COLD PLASTIC, 18 INCH, STOP BAR
✕	SIGN, TYPE III, REM (INCLUDES SIGNS AND POSTS ONLY)	G	SIGN, TYPE IIIB (R3-2, 36 INCH X 36 INCH)	BUS STOP	PAVT MRKG, OVLY COLD PLASTIC, BIKE
■	POST, STEEL, 3 LB AND PERFORATED STEEL SQUARE TUBE BREAKAWAY SYSTEM	H	SIGN, TYPE IIIB (R3-17, 24 INCH X 18 INCH)	SMART BUS SIGN	PAVT MRKG, OVLY COLD PLASTIC, DIRECTION ARROW SYM, BIKE
A	SIGN, TYPE III, ERECT, SALV	I	SIGN, TYPE IIIB (R3-17AP, 24 INCH X 8 INCH)	AHEAD	PAVT MRKG, OVLY COLD PLASTIC, SHARROW SYM
△	SIGN, TYPE III	J	SIGN, TYPE IIIB (R3-17BP, 24 INCH X 8 INCH)	ENDS	PAVT MRKG, OVLY COLD PLASTIC, ONLY
⊕	SIGN TO REMAIN	K	SIGN, TYPE IIIA (R7-1, 36 INCH X 36 INCH)	DO NOT ENTER	PAVT MRKG, OVLY COLD PLASTIC, LT TURN ARROW SYM
⊙	FIXTURE TYPE M1 (REFER TO ELECTRICAL PLANS)	L	SIGN, TYPE IIIB (R6-1R, 54 INCH X 18 INCH)	ONE WAY	PAVT MRKG, OVLY COLD PLASTIC, THRU AND RT TURN ARROW SYM
⊙	FIXTURE TYPE M2, PLD (REFER TO ELECTRICAL PLANS)	M	SIGN, TYPE IIIB (R6-1L, 54 INCH X 18 INCH)	ONE WAY	PAVT MRKG, OVLY COLD PLASTIC, MERGE ARROW SYMBOL
⊙	FIXTURE TYPE M3 (REFER TO ELECTRICAL PLANS)	N	SIGN, TYPE IIIB (R7-1, 12 INCH X 18 INCH)	NO STOPPING	EXISTING RAMP IN COMPLIANCE WITH ADA GUIDELINES AS APPROVED BY THE CITY OF DETROIT
⊙	FIXTURE TYPE M2, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)	O	SIGN, TYPE IIIB (W3-1A, 30 INCH X 30 INCH)	STOP AHEAD	EXISTING LANE PAVT MRKG ON MACK AVE TO REMAIN
⊙	STREET LIGHT, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)	P	SIGN, TYPE IIIB (W4-2L, 36 INCH X 36 INCH)	SHUTTLE BUS	SHUTTLE BUS SIGN. PROVIDE SIGN TO WSU. WSU TO REINSTALL
		Q	SIGN, TYPE IIIB (W11-1, 30 INCH X 30 INCH)	SHARE THE ROAD	EASTERN MARKET LOT 7 SIGN. PROVIDE SIGN TO EASTERN MARKET. EASTERN MARKET TO REINSTALL.
		R	SIGN, TYPE IIIB (W16-1, 18 INCH X 24 INCH)	BIKE	EXISTING PAVEMENT MARKING TO REMAIN

NOTE:  
1. REFER TO DRAWING G0.6 FOR SIGNAGE AND STRIPING NOTES.

**Midtown Loop Phase IV**

Midtown Loop  
Detroit, Michigan



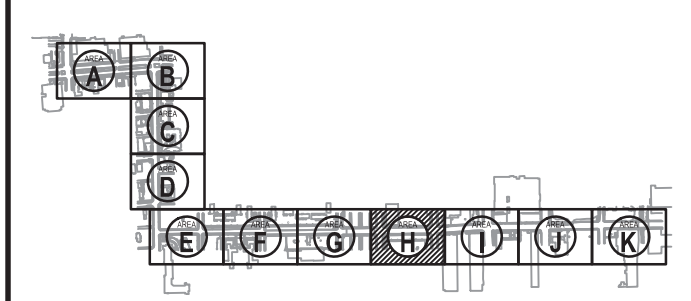
Midtown Detroit, Inc.

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50% CONSTRUCTION DOCUMENTS	0	NOV 05, 2012

SEALS AND SIGNATURES



DRAWING TITLE  
**SIGNAGE AND STRIPING PLAN - AREA H**

PROJECT NUMBER  
**M-C4.8**

DRAWING NUMBER  
289 of 497

FILE: P:\24708\003\Phase-IV\CAD\Sheet\24708-004-SIRP-SHT.dwg USER: jyoung DATE: May 23 2013 TIME: 09:16 am

SEE SHEET M-C4.8 - AREA H (STA. 181+84.72)

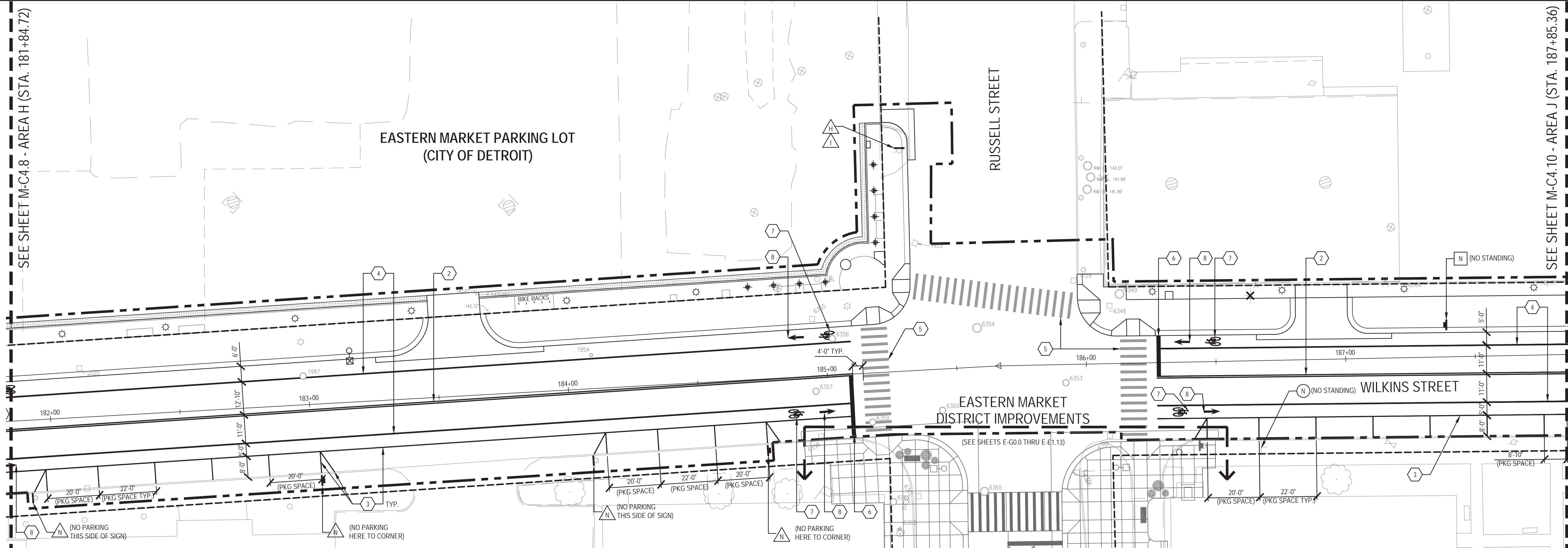
SEE SHEET M-C4.10 - AREA J (STA. 187+85.36)

EASTERN MARKET PARKING LOT  
(CITY OF DETROIT)

RUSSELL STREET

EASTERN MARKET  
DISTRICT IMPROVEMENTS

WILKINS STREET



MIDTOWN LOOP PHASE IV

SIGNAGE AND STRIPING KEY NOTES AND LEGEND

Symbol	Description	Code	Notes	Item	Description
---	CONSTRUCTION LIMIT LINE	A	BANNERS AND BANNER ARMS	S	SIGN, TYPE IIIA (D3-1, VARIES X 8 INCH)
---	RIGHT-OF-WAY	B	EMPTY STEEL POST	T	HOSPITAL SIGN
---	MATCH LINE	C	SIGN, TYPE IIIA (R1-1, 36 INCH X 36 INCH)	U	"TO NORTHBROOK JOHN R" SIGN
---	HORIZONTAL ALIGNMENT	D	SIGN, TYPE IIIA (R1-3a, 18 INCH X 6 INCH)	V	WSU COL PHARMACY HARPER HOSPITAL KARMANOS CANCER INSTITUTE VA MEDICAL CENTER SIGN
---	STATION AND OFFSET POINT	E	SIGN, TYPE IIIB (R2-1, 30 INCH X 36 INCH)	W	"REHAB INST OF MI HARPER HOSPITAL" SIGN
---	ADJACENT PROJECT	F	SIGN, TYPE IIIB (R3-1, 36 INCH X 36 INCH)	X	"STUDENT LOADING" SIGN
X	SIGN, TYPE III, REM (INCLUDES SIGNS AND POSTS ONLY)	G	SIGN, TYPE IIIB (R3-2, 36 INCH X 36 INCH)	Y	"BUS STOP" SIGN
■	POST, STEEL, 3 LB AND PERFORATED STEEL SQUARE TUBE BREAKAWAY SYSTEM	H	SIGN, TYPE IIIB (R3-17, 24 INCH X 18 INCH)	Z	SMART BUS SIGN
	SIGN, TYPE III, ERECT, SALV	I	SIGN, TYPE IIIB (R3-17AP, 24 INCH X 8 INCH)	AA	NEIGHBORHOOD WATCH SIGN
	SIGN, TYPE III, _____	J	SIGN, TYPE IIIB (R3-17BP, 24 INCH X 8 INCH)		
+	SIGN TO REMAIN	K	SIGN, TYPE IIIA (R5-1, 36 INCH X 36 INCH)		
*	_FIXTURE TYPE M1 (REFER TO ELECTRICAL PLANS)	L	SIGN, TYPE IIIB (R6-1R, 54 INCH X 18 INCH)		
*	_FIXTURE TYPE M2, PLD (REFER TO ELECTRICAL PLANS)	M	SIGN, TYPE IIIB (R6-1L, 54 INCH X 18 INCH)		
*	_FIXTURE TYPE M3 (REFER TO ELECTRICAL PLANS)	N	SIGN, TYPE IIIB (R7-1, 12 INCH X 18 INCH)		
#	_FIXTURE TYPE M2, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)	O	SIGN, TYPE IIIB (W3-1A, 30 INCH X 30 INCH)		
○	_STREET LIGHT, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)	P	SIGN, TYPE IIIB (W4-2L, 36 INCH X 36 INCH)		
		Q	SIGN, TYPE IIIB (W11-1, 30 INCH X 30 INCH)		
		R	SIGN, TYPE IIIB (W16-1, 18 INCH X 24 INCH)		

M-C4.9 - SIGNAGE AND STRIPING

QTY	UNIT	ITEM DESCRIPTION
1	Ea	Sign, Type III, Rem
1	Ea	Sign, Type III, Erect, Salv
0	Sft	Sign, Type IIIA
42	Sft	Sign, Type IIIB
32	Ft	Post, Steel, 3 LB
3	Ea	Perforated Steel Square Tube Sign Breakaway System
519	Ft	Recessing Pavement Markings, Transv
669	Ft	Pav Mrkg, Sprayable Thermopl, 4 inch, White
966	Ft	Pav Mrkg, Sprayable Thermopl, 4 inch, Yellow
964	Ft	Pav Mrkg, Sprayable Thermopl, 6 inch, White
480	Ft	Pav Mrkg, Ovlv Cold Plastic, 12 inch, Crosswalk
39	Ft	Pav Mrkg, Ovlv Cold Plastic, 18 inch, Stop Bar
0	Ea	Pav Mrkg, Ovlv Cold Plastic, Only
0	Ea	Pav Mrkg, Ovlv Cold Plastic, Lt Turn Arrow Sym
0	Ea	Pav Mrkg, Ovlv Cold Plastic, Thru and Rt Turn Arrow Sym
4	Ea	Pav Mrkg, Ovlv Cold Plastic, Bike
4	Ea	Pav Mrkg, Ovlv Cold Plastic, Direction Arrow Sym, Bike
0	Ea	Pav Mrkg, Ovlv Cold Plastic, Merge Arrow Symbol
0	Ea	Pav Mrkg, Ovlv Cold Plastic, Sharrow Sym

Midtown Loop  
Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



Midtown Detroit, Inc.

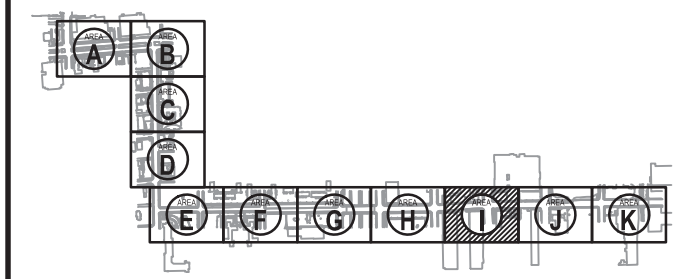
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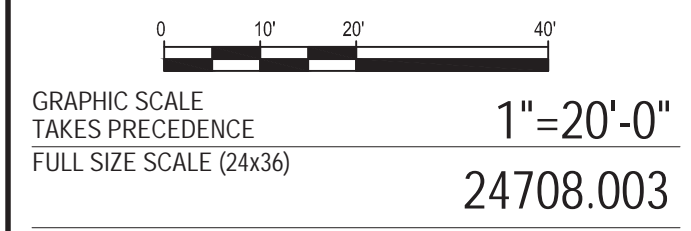
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50% CONSTRUCTION DOCUMENTS	0	NOV 05 2012

SEALS AND SIGNATURES

KEY PLAN



DRAWING TITLE  
SIGNAGE AND STRIPING  
PLAN - AREA I



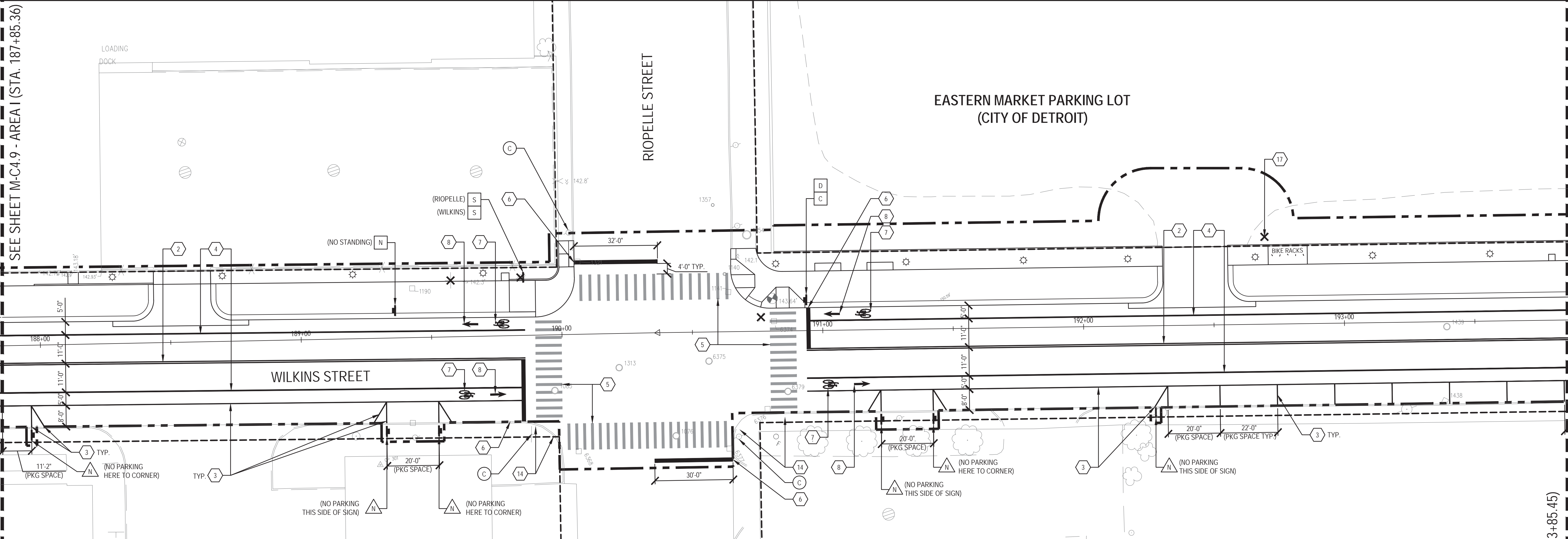
PROJECT NUMBER  
**M-C4.9**  
DRAWING NUMBER  
290 of 497



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NOTE:  
1. REFER TO DRAWING G0.6 FOR SIGNAGE AND STRIPING NOTES.

SEE SHEET M-C4.9 - AREA I (STA. 187+85.36)



# Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



Midtown Detroit, Inc.

## SMITHGROUP JJR

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50% CONSTRUCTION DOCUMENTS	0	NOV 05, 2012

SEALS AND SIGNATURES

KEY PLAN



### MIDTOWN LOOP PHASE IV

#### SIGNAGE AND STRIPING KEY NOTES AND LEGEND

Symbol	Description	Code	Notes	Material
---	CONSTRUCTION LIMIT LINE	A	BANNERS AND BANNER ARMS	S SIGN, TYPE IIIA (D3-1, VARIES X 8 INCH)
---	RIGHT-OF-WAY	B	EMPTY STEEL POST	T HOSPITAL SIGN
---	MATCH LINE	C	SIGN, TYPE IIIA (R1-1, 36 INCH X 36 INCH)	U "TO NORTHBROOK JOHN R" SIGN
---	HORIZONTAL ALIGNMENT	D	SIGN, TYPE IIIA (R1-3a, 18 INCH X 6 INCH)	V WSU COL PHARMACY HARPER HOSPITAL KARMANOS CANCER INSTITUTE VA MEDICAL CENTER" SIGN
---	STATION AND OFFSET POINT	E	SIGN, TYPE IIIB (R2-1, 30 INCH X 36 INCH)	W "REHAB INST OF MI HARPER HOSPITAL" SIGN
---	ADJACENT PROJECT	F	SIGN, TYPE IIIB (R3-1, 36 INCH X 36 INCH)	X "STUDENT LOADING" SIGN
---	SIGN, TYPE III, REM (INCLUDES SIGNS AND POSTS ONLY)	G	SIGN, TYPE IIIB (R3-2, 36 INCH X 36 INCH)	Y "BUS STOP" SIGN
---	POST, STEEL, 3 LB AND PERFORATED STEEL SQUARE TUBE BREAKAWAY SYSTEM	H	SIGN, TYPE IIIB (R3-17, 24 INCH X 18 INCH)	Z SMART BUS SIGN
A	SIGN, TYPE III, ERECT, SALV	I	SIGN, TYPE IIIB (R3-17AP, 24 INCH X 8 INCH)	AA NEIGHBORHOOD WATCH SIGN
A	SIGN, TYPE III	J	SIGN, TYPE IIIB (R3-17BP, 24 INCH X 8 INCH)	
A	SIGN TO REMAIN	K	SIGN, TYPE IIIA (R5-1, 36 INCH X 36 INCH)	
*	_FIXTURE TYPE M1 (REFER TO ELECTRICAL PLANS)	L	SIGN, TYPE IIIB (R6-1R, 54 INCH X 18 INCH)	
*	_FIXTURE TYPE M2, PLD (REFER TO ELECTRICAL PLANS)	M	SIGN, TYPE IIIB (R6-1L, 54 INCH X 18 INCH)	
*	_FIXTURE TYPE M3 (REFER TO ELECTRICAL PLANS)	N	SIGN, TYPE IIIB (R7-1, 12 INCH X 18 INCH)	
#	_FIXTURE TYPE M2, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)	O	SIGN, TYPE IIIB (W3-1A, 30 INCH X 30 INCH)	
⊗	_STREET LIGHT, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)	P	SIGN, TYPE IIIB (W4-2L, 36 INCH X 36 INCH)	
		Q	SIGN, TYPE IIIB (W11-1, 30 INCH X 30 INCH)	
		R	SIGN, TYPE IIIB (W16-1, 18 INCH X 24 INCH)	

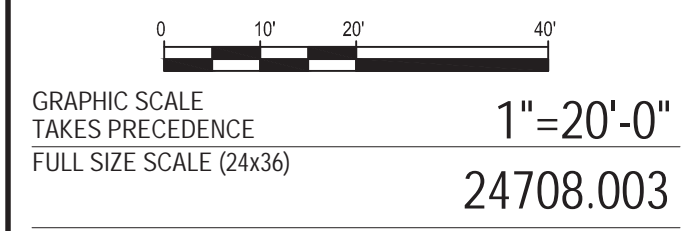
NOTE:  
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#### M-C4.10 - SIGNAGE AND STRIPING

QTY	UNIT	ITEM DESCRIPTION
4	Ea	Sign, Type III, Rem
5	Ea	Sign, Type III, Erect, Salv
0	Sft	Sign, Type IIIA
42	Sft	Sign, Type IIIB
75	Ft	Post, Steel, 3 LB
3	Ea	Perforated Steel Square Tube Sign Breakaway System
742	Ft	Recessing Pavement Markings, Transv
653	Ft	Pav Mrkg, Sprayable Thermopl, 4 inch, White
984	Ft	Pav Mrkg, Sprayable Thermopl, 4 inch, Yellow
982	Ft	Pav Mrkg, Sprayable Thermopl, 6 inch, White
640	Ft	Pav Mrkg, Ovlv Cold Plastic, 12 inch, Crosswalk
102	Ft	Pav Mrkg, Ovlv Cold Plastic, 18 inch, Stop Bar
0	Ea	Pav Mrkg, Ovlv Cold Plastic, Only
0	Ea	Pav Mrkg, Ovlv Cold Plastic, Lt Turn Arrow Sym
0	Ea	Pav Mrkg, Ovlv Cold Plastic, Thru and Rt Turn Arrow Sym
4	Ea	Pav Mrkg, Ovlv Cold Plastic, Bike
4	Ea	Pav Mrkg, Ovlv Cold Plastic, Direction Arrow Sym, Bike
0	Ea	Pav Mrkg, Ovlv Cold Plastic, Merge Arrow Symbol
0	Ea	Pav Mrkg, Ovlv Cold Plastic, Sharrow Sym

#### DRAWING TITLE

### SIGNAGE AND STRIPING PLAN - AREA J



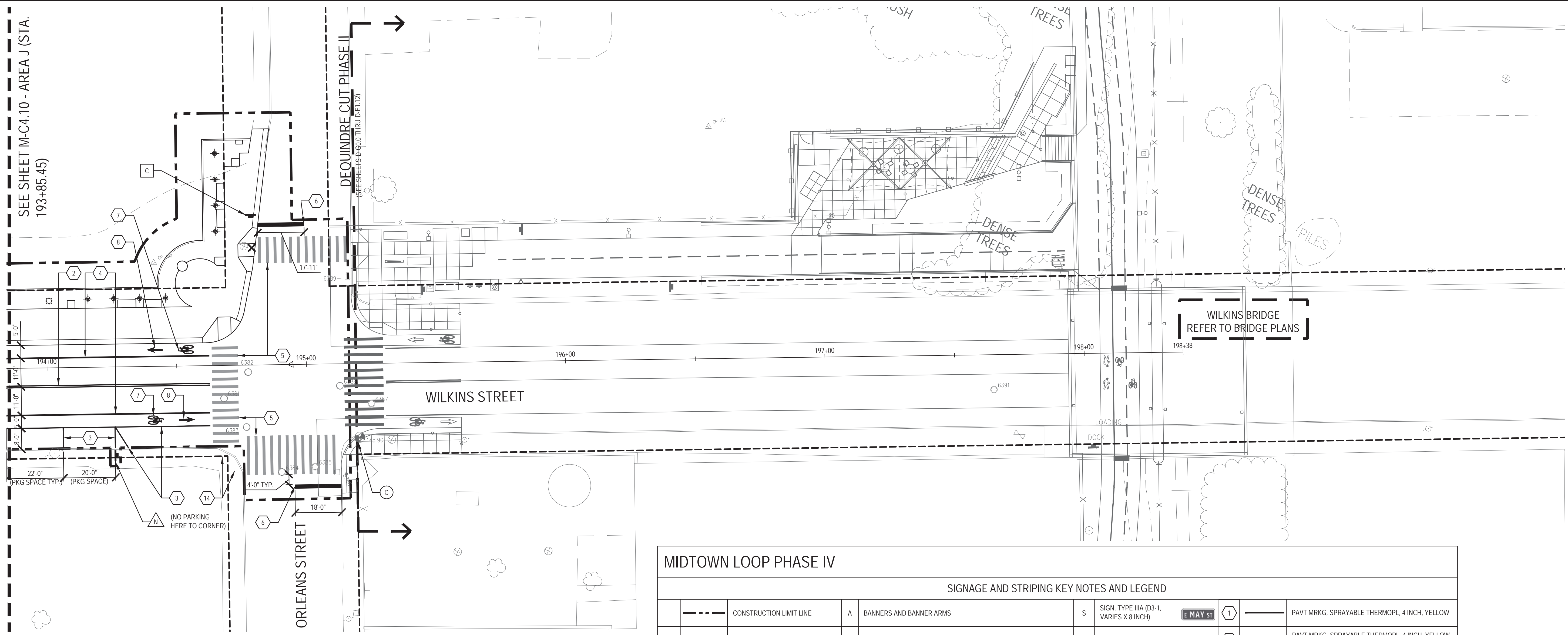
PROJECT NUMBER  
**M-C4.10**

DRAWING NUMBER  
291 of 497



FILE: P:\24708\003\Phase-IV\CAD\Sheet\24708-004-STRIP-SHT.dwg USER: jyoung DATE: May 23 2013 TIME: 09:16 am

SEE SHEET M-C4.10 - AREA J (STA. 193+85.45)



MIDTOWN LOOP PHASE IV

SIGNAGE AND STRIPING KEY NOTES AND LEGEND

Symbol	Description	Code	Item	Notes	Material	
---	CONSTRUCTION LIMIT LINE	A	BANNERS AND BANNER ARMS	S	SIGN, TYPE IIIA (D3-1, VARIES X 8 INCH) <b>E MAY ST</b>	PAVT MRKG, SPRAYABLE THERMOPL, 4 INCH, YELLOW
---	RIGHT-OF-WAY	B	EMPTY STEEL POST	T	HOSPITAL SIGN	PAVT MRKG, SPRAYABLE THERMOPL, 4 INCH, YELLOW (PROVIDE DOUBLE SOLID LINE AS SHOWN ON PLAN)
---	MATCH LINE	C	SIGN, TYPE IIIA (R1-1, 36 INCH X 36 INCH)	U	"TO NORTHBROAD JOHN R" SIGN	PAVT MRKG, SPRAYABLE THERMOPL, 4 INCH, WHITE
---	HORIZONTAL ALIGNMENT	D	SIGN, TYPE IIIA (R1-3a, 18 INCH X 6 INCH)	V	WSU COL PHARMACY HARPER HOSPITAL KARMANOS CANCER INSTITUTE VA MEDICAL CENTER SIGN	PAVT MRKG, SPRAYABLE THERMOPL, 6 INCH, WHITE
---	STATION AND OFFSET POINT	E	SIGN, TYPE IIIB (R2-1, 30 INCH X 36 INCH)	W	"REHAB INST OF MI HARPER HOSPITAL" SIGN	PAVT MRKG, OVLY COLD PLASTIC, 12 INCH, CROSSWALK
---	ADJACENT PROJECT	F	SIGN, TYPE IIIB (R3-1, 36 INCH X 36 INCH)	X	"STUDENT LOADING" SIGN	PAVT MRKG, OVLY COLD PLASTIC, 18 INCH, STOP BAR
---	SIGN, TYPE III, REM (INCLUDES SIGNS AND POSTS ONLY)	G	SIGN, TYPE IIIB (R3-2, 36 INCH X 36 INCH)	Y	"BUS STOP" SIGN	PAVT MRKG, OVLY COLD PLASTIC, BIKE
---	POST, STEEL, 3 LB AND PERFORATED STEEL SQUARE TUBE BREAKAWAY SYSTEM	H	SIGN, TYPE IIIB (R3-17, 24 INCH X 18 INCH)	Z	SMART BUS SIGN	PAVT MRKG, OVLY COLD PLASTIC, DIRECTION ARROW SYM, BIKE
---	SIGN, TYPE III, ERECT, SALV	I	SIGN, TYPE IIIB (R3-17AP, 24 INCH X 8 INCH)	AA	NEIGHBORHOOD WATCH SIGN	PAVT MRKG, OVLY COLD PLASTIC, SHARROW SYM
---	SIGN, TYPE III	J	SIGN, TYPE IIIB (R3-17BP, 24 INCH X 8 INCH)			PAVT MRKG, OVLY COLD PLASTIC, ONLY
---	SIGN TO REMAIN	K	SIGN, TYPE IIIA (R5-1, 36 INCH X 36 INCH)			PAVT MRKG, OVLY COLD PLASTIC, LT TURN ARROW SYM
---	_FIXTURE TYPE M1 (REFER TO ELECTRICAL PLANS)	L	SIGN, TYPE IIIB (R6-1R, 54 INCH X 18 INCH)			PAVT MRKG, OVLY COLD PLASTIC, THRU AND RT TURN ARROW SYM
---	_FIXTURE TYPE M2, PLD (REFER TO ELECTRICAL PLANS)	M	SIGN, TYPE IIIB (R6-1L, 54 INCH X 18 INCH)			PAVT MRKG, OVLY COLD PLASTIC, MERGE ARROW SYMBOL
---	_FIXTURE TYPE M3 (REFER TO ELECTRICAL PLANS)	N	SIGN, TYPE IIIB (R7-1, 12 INCH X 18 INCH)			EXISTING RAMP IN COMPLIANCE WITH ADA GUIDELINES AS APPROVED BY THE CITY OF DETROIT
---	_FIXTURE TYPE M2, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)	O	SIGN, TYPE IIIB (W3-1A, 30 INCH X 30 INCH)			EXISTING LANE PAVT MRKG ON MACK AVE TO REMAIN
---	_STREET LIGHT, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)	P	SIGN, TYPE IIIB (W4-2L, 36 INCH X 36 INCH)			SHUTTLE BUS SIGN. PROVIDE SIGN TO WSU. WSU TO REINSTALL.
---		Q	SIGN, TYPE IIIB (W11-1, 30 INCH X 30 INCH)			EASTERN MARKET LOT 7 SIGN. PROVIDE SIGN TO EASTERN MARKET. EASTERN MARKET TO REINSTALL.
---		R	SIGN, TYPE IIIB (W16-1, 18 INCH X 24 INCH)			EXISTING PAVEMENT MARKING TO REMAIN

M-C4.11 - SIGNAGE AND STRIPING

QTY	UNIT	ITEM DESCRIPTION
1	Ea	Sign, Type III, Rem
1	Ea	Sign, Type III, Erect, Salv
0	Sft	Sign, Type IIIA
7	Sft	Sign, Type IIIB
21	Ft	Post, Steel, 3 LB
2	Ea	Perforated Steel Square Tube Sign Breakaway System
466	Ft	Recessing Pavement Markings, Transv
104	Ft	Pavt Mrkg, Sprayable Thermo, 4 inch, White
155	Ft	Pavt Mrkg, Sprayable Thermo, 4 inch, Yellow
155	Ft	Pavt Mrkg, Sprayable Thermo, 6 inch, White
430	Ft	Pavt Mrkg, Ovly Cold Plastic, 12 inch, Crosswalk
36	Ft	Pavt Mrkg, Ovly Cold Plastic, 18 inch, Stop Bar
0	Ea	Pavt Mrkg, Ovly Cold Plastic, Only
0	Ea	Pavt Mrkg, Ovly Cold Plastic, Lt Turn Arrow Sym
0	Ea	Pavt Mrkg, Ovly Cold Plastic, Thru and Rt Turn Arrow Sym
2	Ea	Pavt Mrkg, Ovly Cold Plastic, Bike
2	Ea	Pavt Mrkg, Ovly Cold Plastic, Direction Arrow Sym, Bike
0	Ea	Pavt Mrkg, Ovly Cold Plastic, Merge Arrow Symbol
0	Ea	Pavt Mrkg, Ovly Cold Plastic, Sharrow Sym

NOTE:  
1. REFER TO DRAWING G0.6 FOR SIGNAGE AND STRIPING NOTES.

Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



Midtown Detroit, Inc.

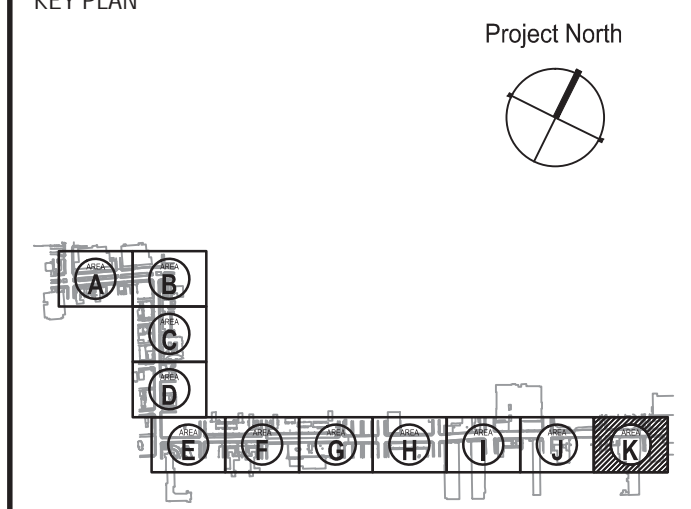
SMITHGROUP JJR

201 DEPOT STREET  
SECOND FLOOR  
ANN ARBOR, MI 48104  
734.662.4457  
www.smithgroupjjr.com

ISSUED FOR	REV	DATE
BIDDING DOCUMENTS	5	MAY 21, 2013
BIDDING DOCUMENTS	4	MAY 02, 2013
100% CONSTRUCTION DOCUMENTS	3	APR 01, 2013
GRADE INSPECTION	2	JAN 30, 2013
80% CONSTRUCTION DOCUMENTS	1	JAN 07, 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05, 2012

SEALS AND SIGNATURES

KEY PLAN



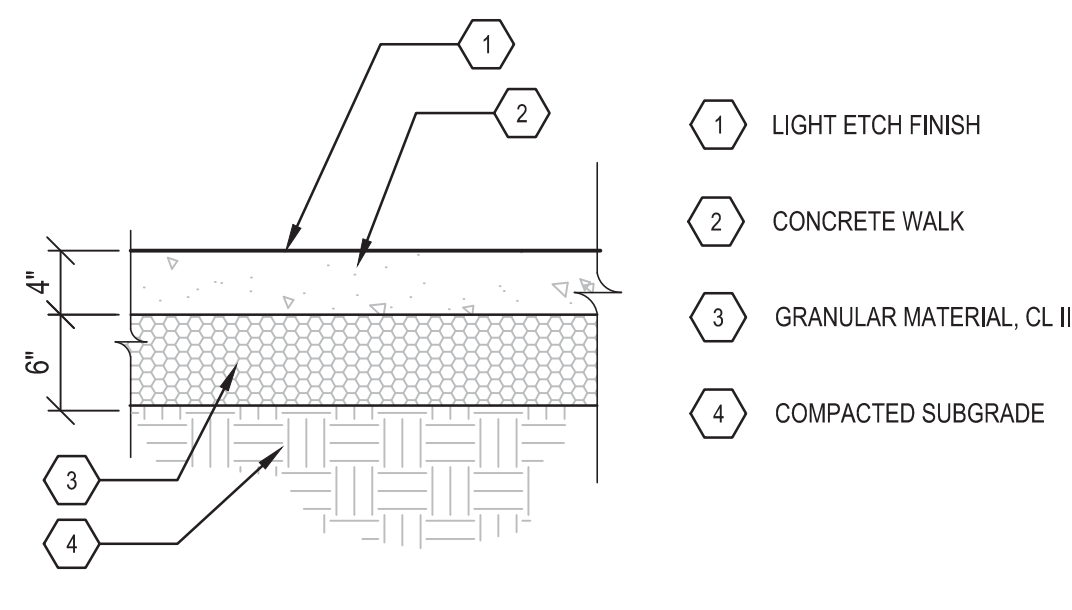
DRAWING TITLE  
SIGNAGE AND STRIPING  
PLAN - AREA K

GRAPHIC SCALE  
TAKES PRECEDENCE  
FULL SIZE SCALE (24x36)  
1" = 20'-0"  
24708.003

PROJECT NUMBER  
M-C4.11  
DRAWING NUMBER



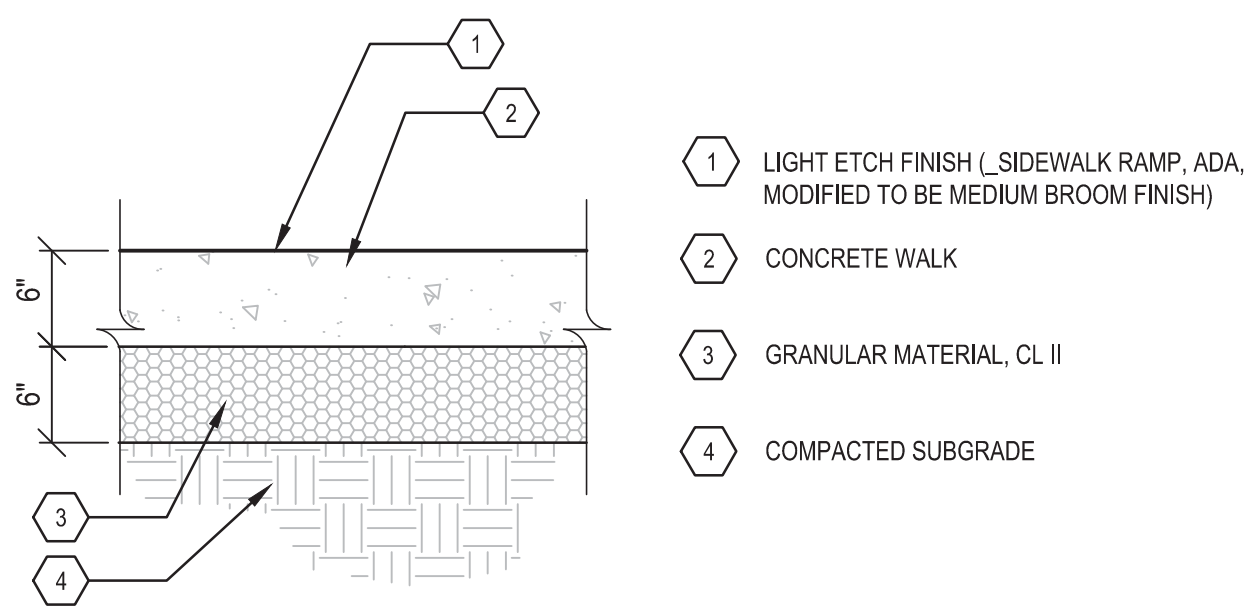
3 WORKING DAYS BEFORE YOU DIG  
CALL MISS DIG  
1-800-482-7171



- 1 LIGHT ETCH FINISH
- 2 CONCRETE WALK
- 3 GRANULAR MATERIAL, CL II
- 4 COMPACTED SUBGRADE

NOTE:  
 1. REFER TO LAYOUT PLANS AND MATERIALS PLANS FOR COLOR AND LOCATION OF INTEGRAL COLOR CONCRETE AND CHEMICALLY STAINED CONCRETE.  
 2. REFER TO JOINTING PLANS FOR CONCRETE JOINT LOCATIONS AND TYPES.

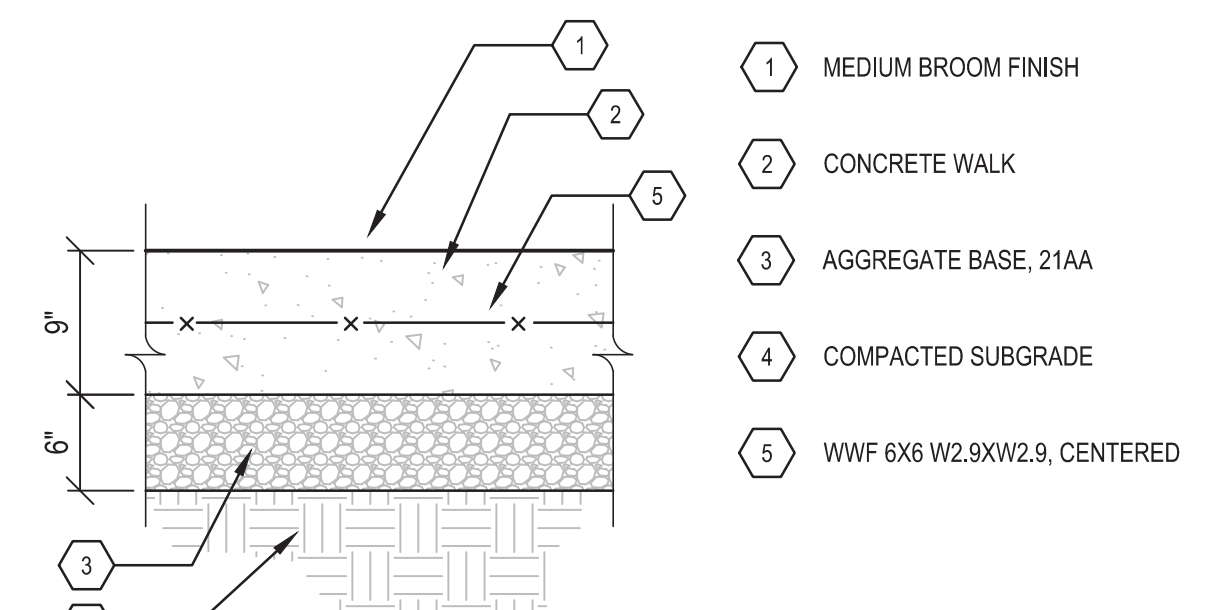
1 SIDEWALK, CONC. 4 INCH, MODIFIED SECTION NTS



- 1 LIGHT ETCH FINISH (SIDEWALK RAMP, ADA, MODIFIED TO BE MEDIUM BROOM FINISH)
- 2 CONCRETE WALK
- 3 GRANULAR MATERIAL, CL II
- 4 COMPACTED SUBGRADE

NOTE:  
 1. REFER TO LAYOUT PLANS AND MATERIALS PLANS FOR COLOR AND LOCATION OF INTEGRAL COLOR CONCRETE AND CHEMICALLY STAINED CONCRETE.  
 2. SIDEWALK RAMP, ADA, MODIFIED TO BE MEDIUM BROOM FINISH AS PER MDOT DETAIL R-28-H.  
 3. REFER TO JOINTING PLANS FOR CONCRETE JOINT LOCATIONS AND TYPES.

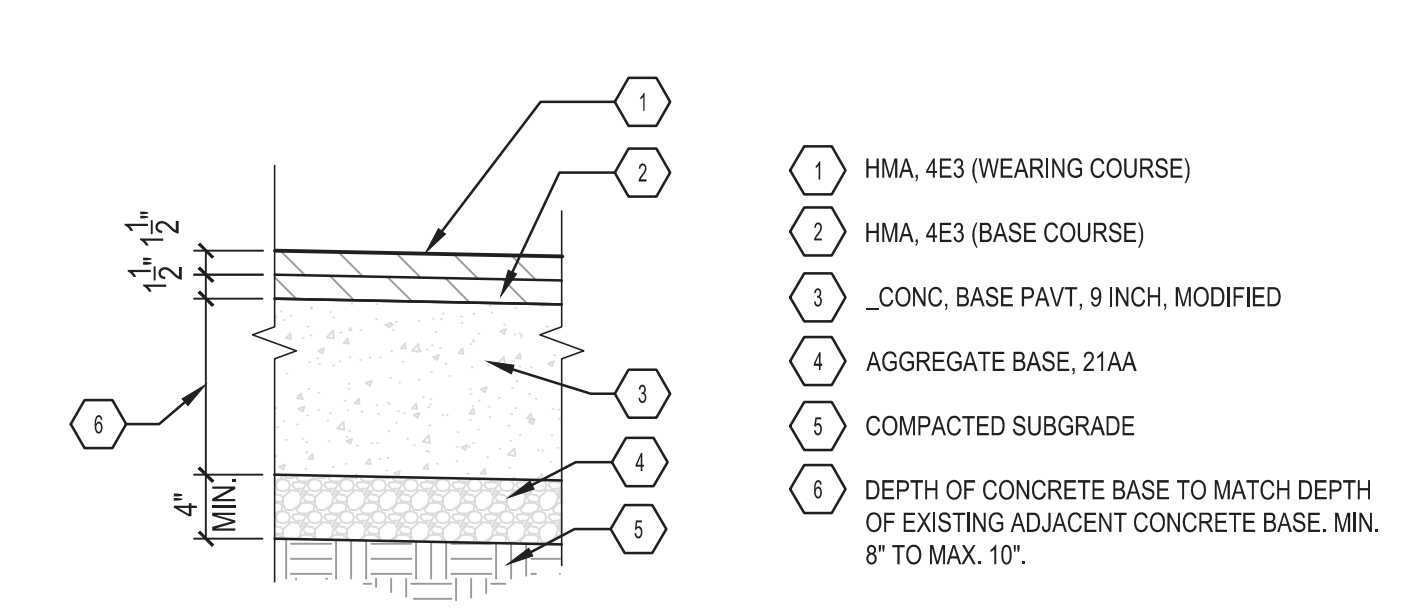
2 SIDEWALK, CONC. 6 INCH, MODIFIED SECTION NTS



- 1 MEDIUM BROOM FINISH
- 2 CONCRETE WALK
- 3 AGGREGATE BASE, 21AA
- 4 COMPACTED SUBGRADE
- 5 WWF 6X6 W2.9XW2.9, CENTERED

NOTE:  
 1. REFER TO LAYOUT PLANS AND MATERIALS PLANS FOR COLOR AND LOCATION OF INTEGRAL COLOR CONCRETE AND CHEMICALLY STAINED CONCRETE.  
 2. REFER TO JOINTING PLANS FOR CONCRETE JOINT LOCATIONS AND TYPES.

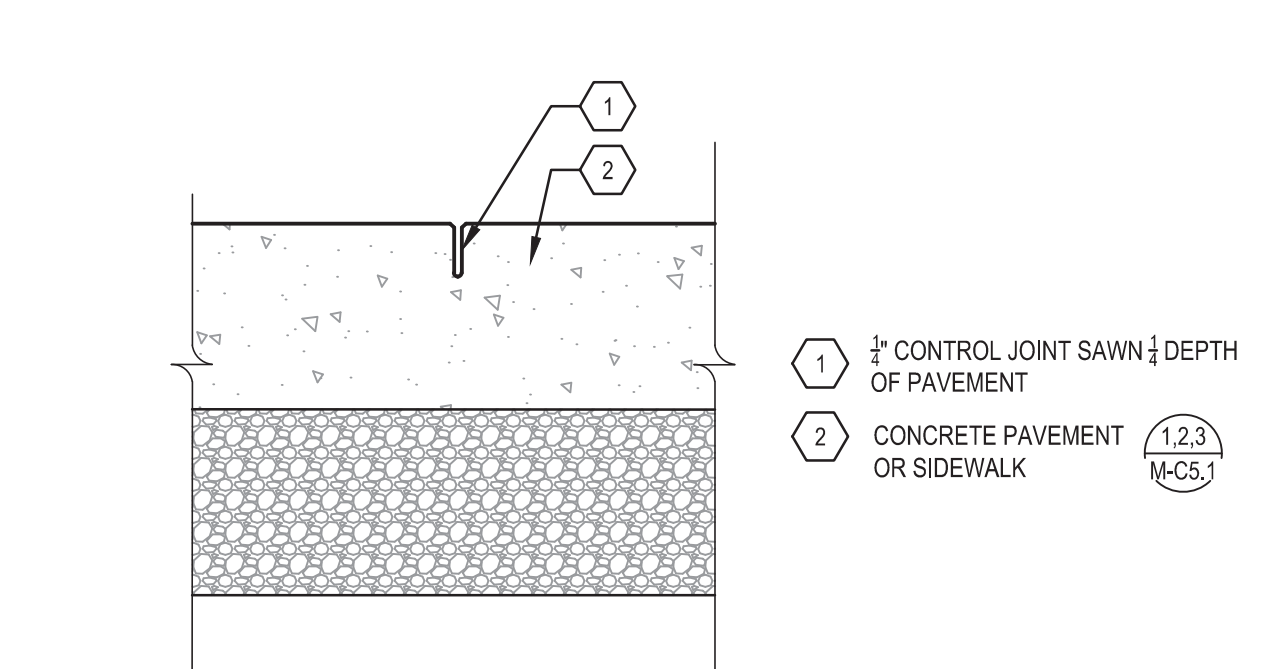
3 CONC. PAVT. MISC. 9 INCH, REINF. MODIFIED SECTION NTS



- 1 HMA, 4E3 (WEARING COURSE)
- 2 HMA, 4E3 (BASE COURSE)
- 3 CONC. BASE PAVT. 9 INCH, MODIFIED
- 4 AGGREGATE BASE, 21AA
- 5 COMPACTED SUBGRADE
- 6 DEPTH OF CONCRETE BASE TO MATCH DEPTH OF EXISTING ADJACENT CONCRETE BASE. MIN. 8" TO MAX. 10".

NOTE:  
 1. REFER TO LAYOUT PLANS AND MATERIALS PLANS FOR COLOR AND LOCATION OF INTEGRAL COLOR CONCRETE AND CHEMICALLY STAINED CONCRETE.  
 2. REFER TO JOINTING PLANS FOR CONCRETE JOINT LOCATIONS AND TYPES.

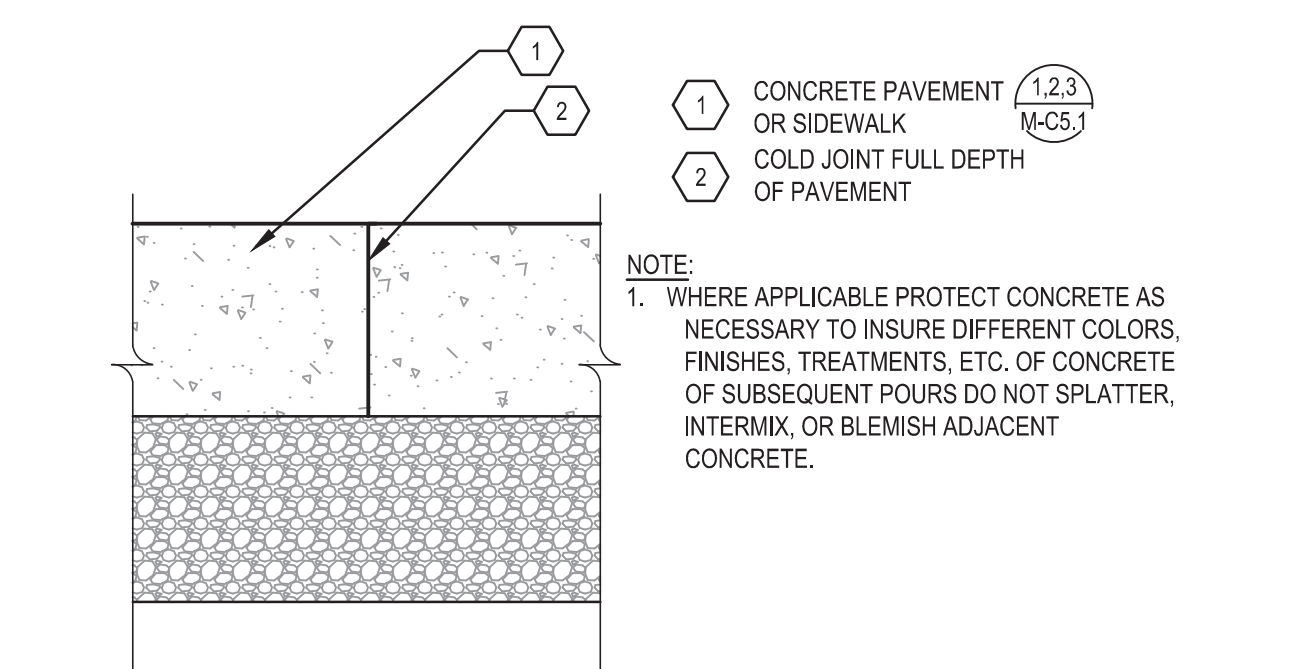
4 HAND PATCHING SECTION NTS



- 1 1/2" CONTROL JOINT SAWN 1/2" DEPTH OF PAVEMENT
- 2 CONCRETE PAVEMENT OR SIDEWALK (1,2,3 M-C5.1)

NOTE:  
 1. CONTROL JOINTS MAY BE SAWCUT AS SOON AS THE CONCRETE HAS SUFFICIENTLY HARDENED TO PREVENT RAVELING OF THE CONCRETE AT THE EDGES OF THE JOINT.  
 2. MAXIMUM DIMENSION BETWEEN CONTROL JOINTS IN SIDEWALKS, CURBS, WALLS, ETC. TO BE 10'-0".  
 3. CONTROL JOINTS ARE INCIDENTAL TO PAVEMENT PAY ITEMS.

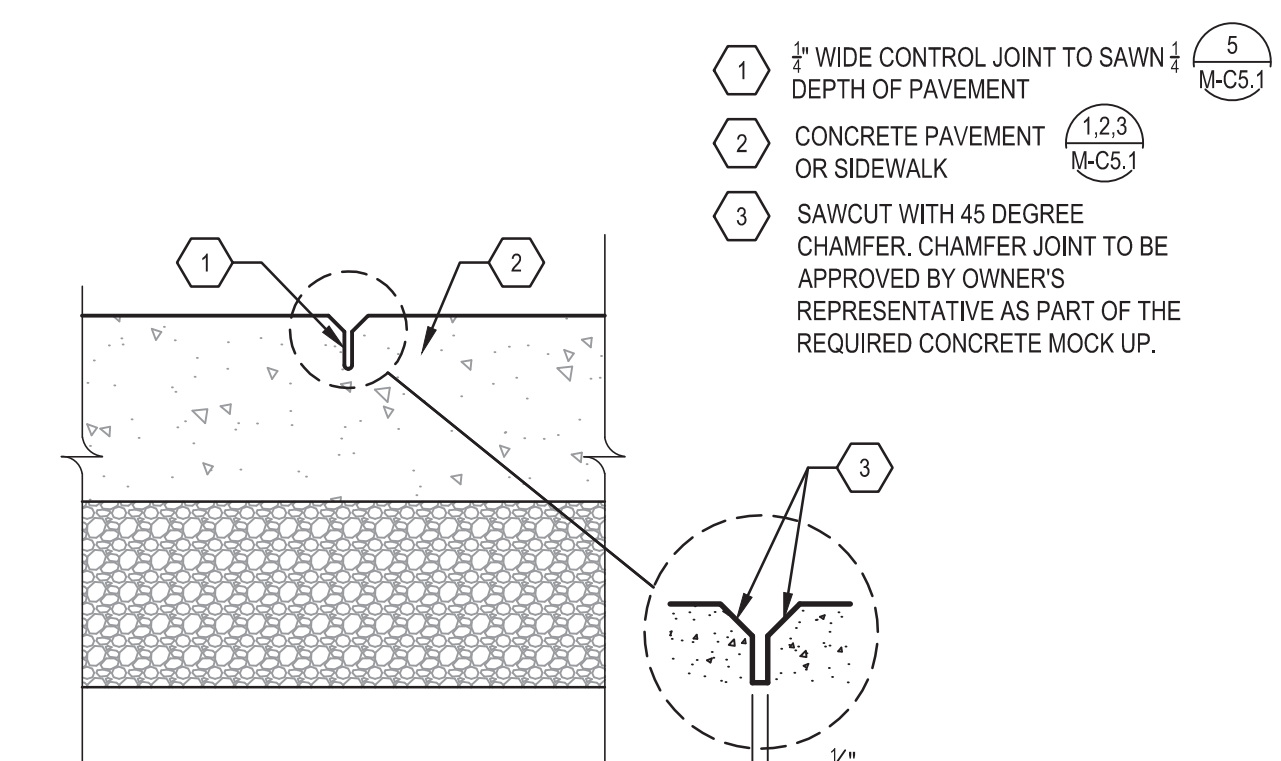
5 CONTROL JOINT SECTION NTS



- 1 CONCRETE PAVEMENT OR SIDEWALK (1,2,3 M-C5.1)
- 2 COLD JOINT FULL DEPTH OF PAVEMENT

NOTE:  
 1. WHERE APPLICABLE PROTECT CONCRETE AS NECESSARY TO INSURE DIFFERENT COLORS, FINISHES, TREATMENTS, ETC. OF CONCRETE OF SUBSEQUENT POURS DO NOT SPLATTER, INTERMIX, OR BLEMISH ADJACENT CONCRETE.

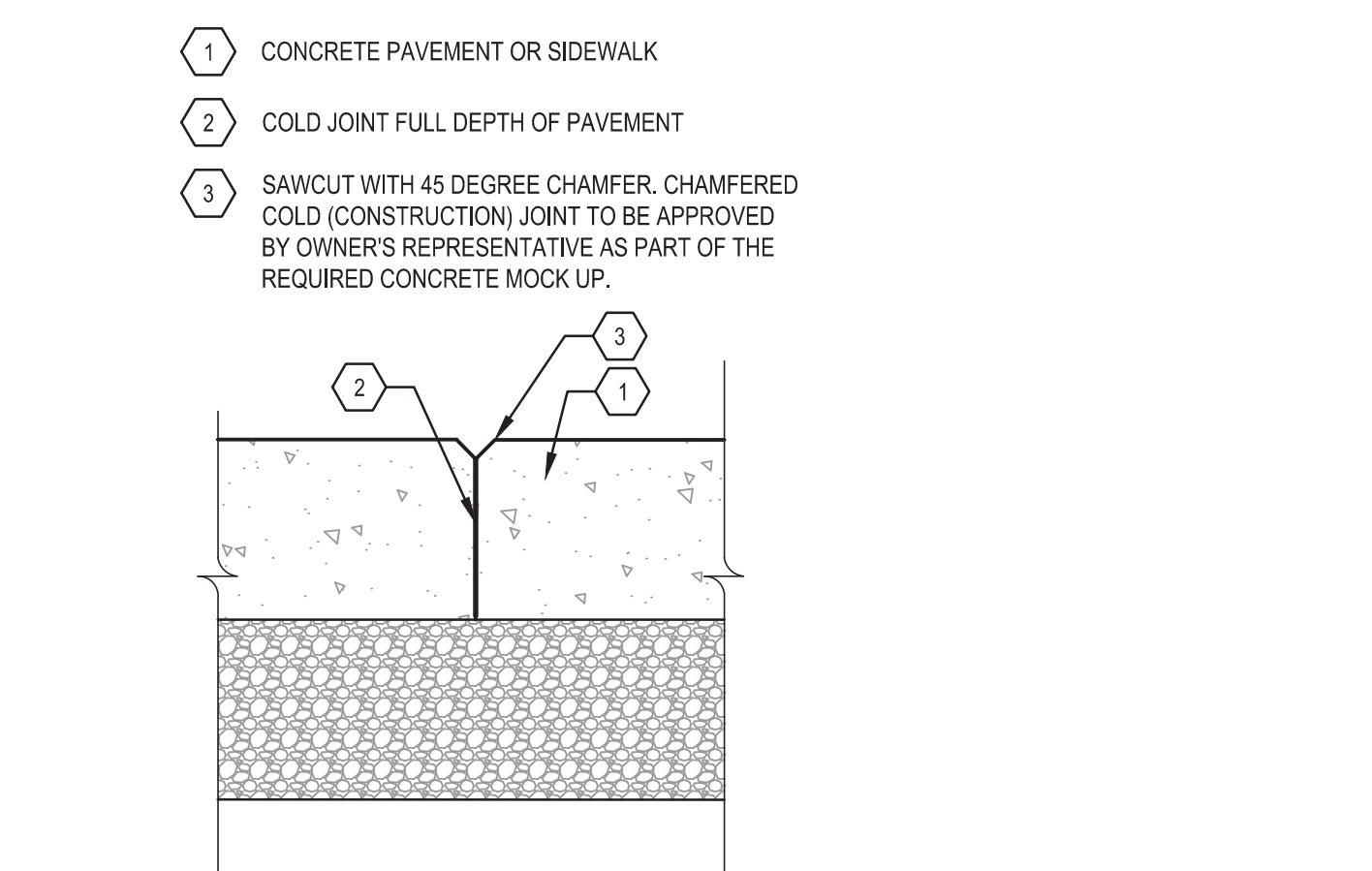
6 COLD JOINT SECTION NTS



- 1 1/2" WIDE CONTROL JOINT TO SAWN 1/2" DEPTH OF PAVEMENT (5 M-C5.1)
- 2 CONCRETE PAVEMENT OR SIDEWALK (1,2,3 M-C5.1)
- 3 SAWCUT WITH 45 DEGREE CHAMFER. CHAMFER JOINT TO BE APPROVED BY OWNER'S REPRESENTATIVE AS PART OF THE REQUIRED CONCRETE MOCK UP.

NOTE:  
 1. CHAMFERED CONTROL JOINT MAY BE SAWCUT AS SOON AS THE CONCRETE HAS HARDENED SUFFICIENTLY TO PREVENT RAVELING OF THE CONCRETE AT THE EDGES.  
 2. A FORM OR GUIDE IS REQUIRED TO BE USED ON ALL CHAMFERED CONTROL JOINTS THAT ARE ARCS. ARC JOINTS ARE TO BE SAWCUT TO A TRUE EVEN CONTINUOUS RADIUS WITHOUT IRREGULARITIES.

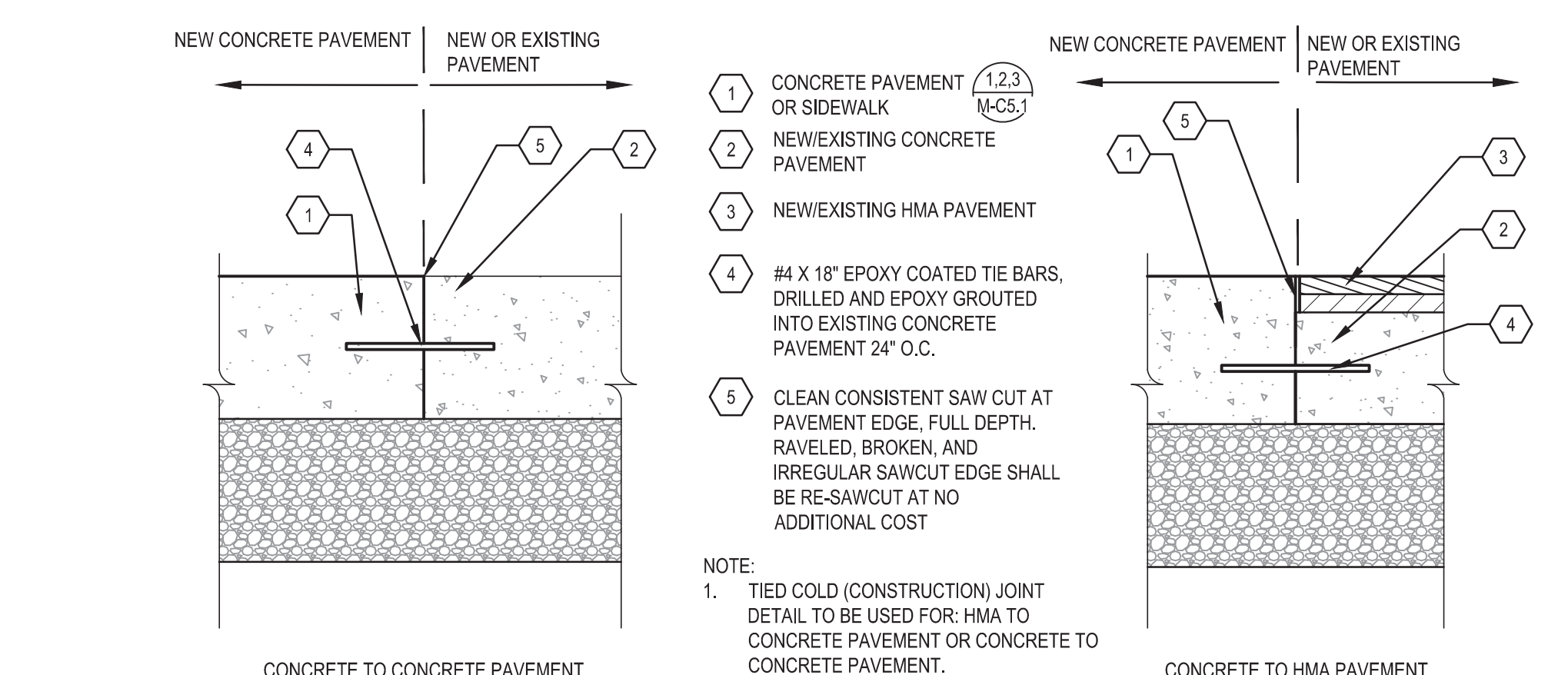
7 CHAMFERED CONTROL JOINT SECTION NTS



- 1 CONCRETE PAVEMENT OR SIDEWALK
- 2 COLD JOINT FULL DEPTH OF PAVEMENT
- 3 SAWCUT WITH 45 DEGREE CHAMFER. CHAMFERED COLD (CONSTRUCTION) JOINT TO BE APPROVED BY OWNER'S REPRESENTATIVE AS PART OF THE REQUIRED CONCRETE MOCK UP.

NOTE:  
 1. WHERE APPLICABLE PROTECT CONCRETE AS NECESSARY TO INSURE DIFFERENT COLORS, FINISHES, TREATMENTS, ETC. OF CONCRETE OF SUBSEQUENT POURS DO NOT SPLATTER, INTERMIX, OR BLEMISH ADJACENT CONCRETE.

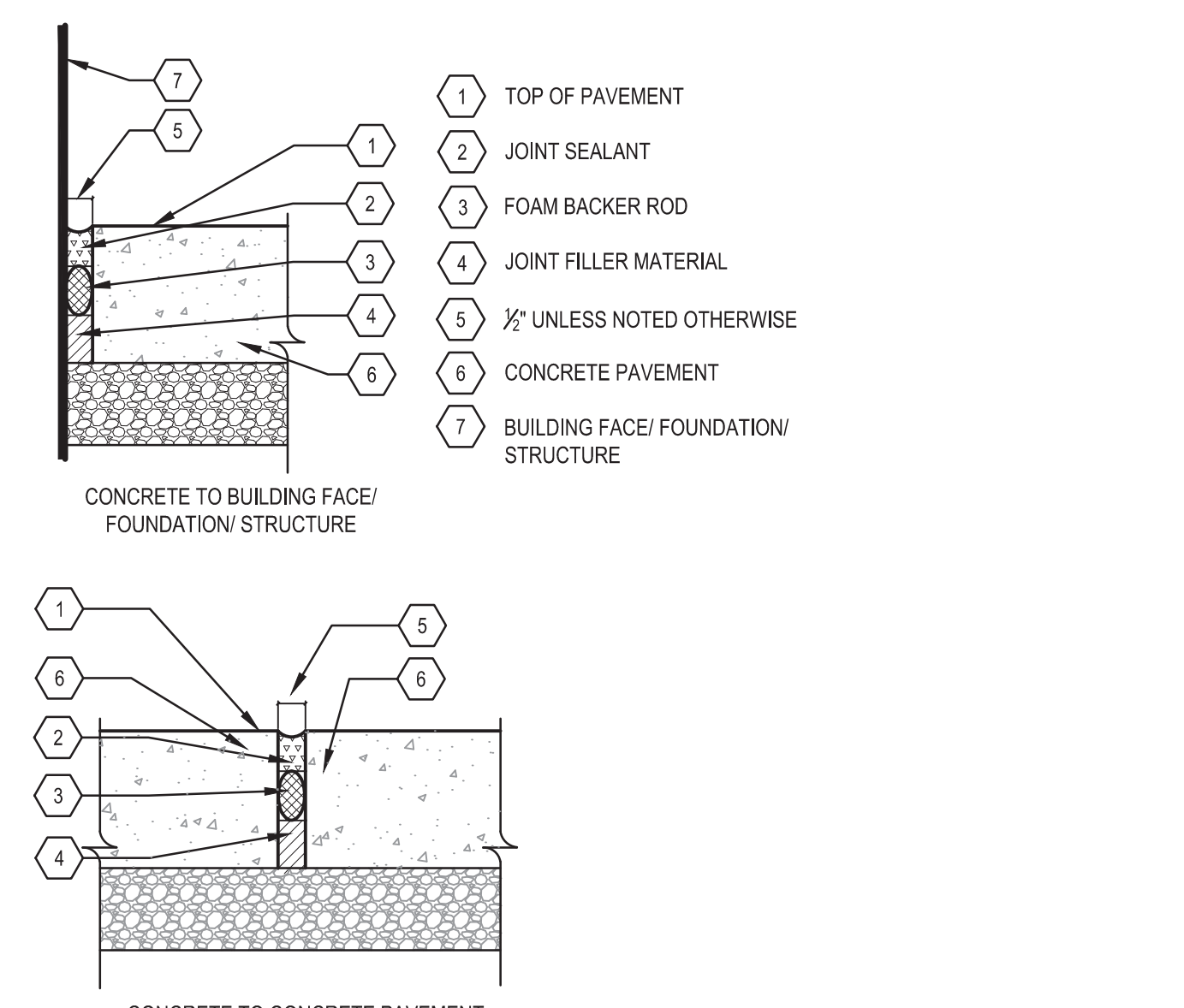
8 CHAMFERED COLD (CONSTRUCTION) JOINT SECTION NTS



- 1 CONCRETE PAVEMENT OR SIDEWALK (1,2,3 M-C5.1)
- 2 NEW/EXISTING CONCRETE PAVEMENT
- 3 NEW/EXISTING HMA PAVEMENT
- 4 #4 X 18" EPOXY COATED TIE BARS, DRILLED AND EPOXY GROUTED INTO EXISTING CONCRETE PAVEMENT 24" O.C.
- 5 CLEAN CONSISTENT SAW CUT AT PAVEMENT EDGE, FULL DEPTH. RAVELED, BROKEN, AND IRREGULAR SAWCUT EDGE SHALL BE RE-SAWCUT AT NO ADDITIONAL COST

NOTE:  
 1. TIED COLD (CONSTRUCTION) JOINT DETAIL TO BE USED FOR: HMA TO CONCRETE PAVEMENT OR CONCRETE TO CONCRETE PAVEMENT.  
 2. TIED COLD JOINTS INCLUDING TIE BARS ARE INCIDENTAL TO PAVEMENT PAY ITEMS.

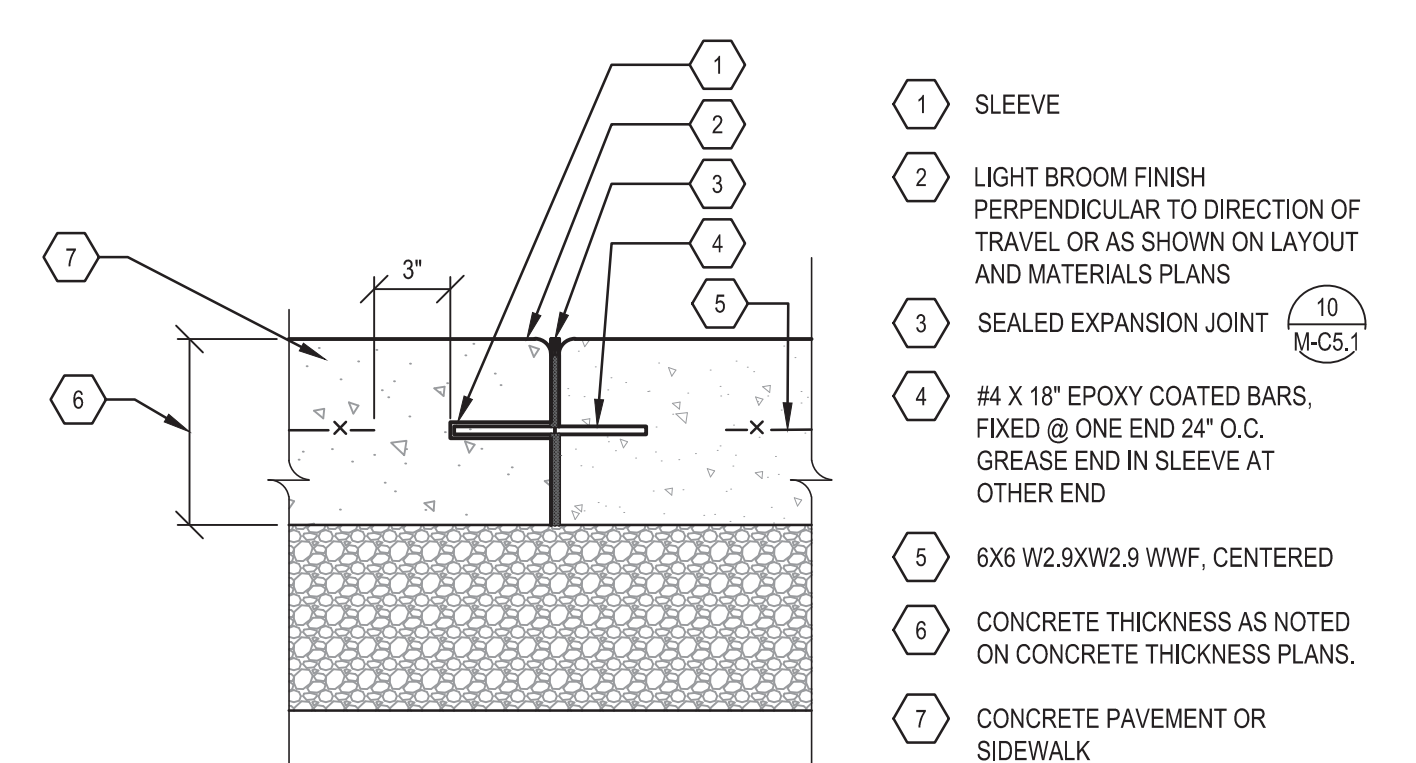
9 TIED COLD (CONSTRUCTION) JOINT SECTION NTS



- 1 TOP OF PAVEMENT
- 2 JOINT SEALANT
- 3 FOAM BACKER ROD
- 4 JOINT FILLER MATERIAL
- 5 1/2" UNLESS NOTED OTHERWISE
- 6 CONCRETE PAVEMENT
- 7 BUILDING FACE/ FOUNDATION/ STRUCTURE

NOTE:  
 1. ALL EXPANSION JOINTS TO BE SEALED.  
 2. DOWELED SEALED EXPANSION JOINTS INCLUDING BARS AND SLEEVES ARE INCIDENTAL TO PAVEMENT PAY ITEMS.

10 SEALED EXPANSION JOINT SECTION SCALE 1/4"=1'-0"



- 1 SLEEVE
- 2 LIGHT BROOM FINISH PERPENDICULAR TO DIRECTION OF TRAVEL OR AS SHOWN ON LAYOUT AND MATERIALS PLANS (10 M-C5.1)
- 3 SEALED EXPANSION JOINT
- 4 #4 X 18" EPOXY COATED BARS, FIXED @ ONE END 24" O.C. GREASE END IN SLEEVE AT OTHER END
- 5 6X6 W2.9XW2.9 WWF, CENTERED
- 6 CONCRETE THICKNESS AS NOTED ON CONCRETE THICKNESS PLANS.
- 7 CONCRETE PAVEMENT OR SIDEWALK

11 DOWELED SEALED EXPANSION JOINT SECTION

# Midtown Loop Phase IV

Midtown Loop  
 Detroit, Michigan



Owners:  
 City of Detroit



Midtown Detroit, Inc.

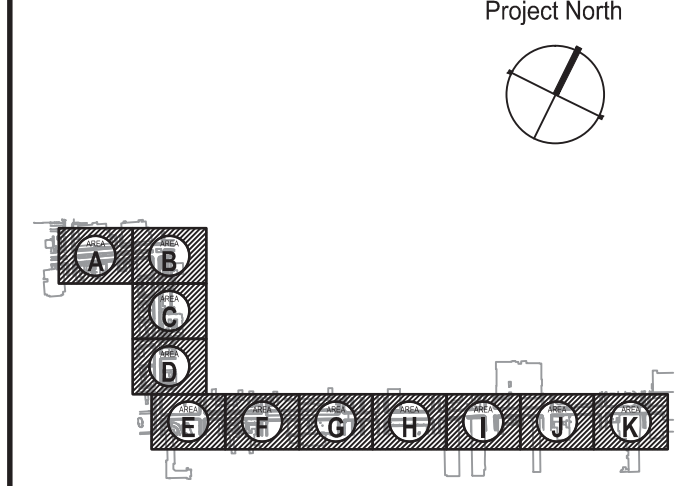
## SMITHGROUP JJR

201 DEPOT STREET  
 SECOND FLOOR  
 ANN ARBOR, MI 48104  
 734.662.4457  
 www.smithgroupjjr.com

ISSUED FOR	REV	DATE
BIDDING DOCUMENTS	5	MAY 21, 2013
BIDDING DOCUMENTS	4	MAY 02, 2013
100% CONSTRUCTION DOCUMENTS	3	APR 01, 2013
GRADE INSPECTION	2	JAN 30, 2013
80% CONSTRUCTION DOCUMENTS	1	JAN 07, 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05, 2012

SEALS AND SIGNATURES

KEY PLAN



### PAVEMENT DETAILS 1

GRAPHIC SCALE AS NOTED  
 FULL SIZE SCALE (24x36)  
 24708.003

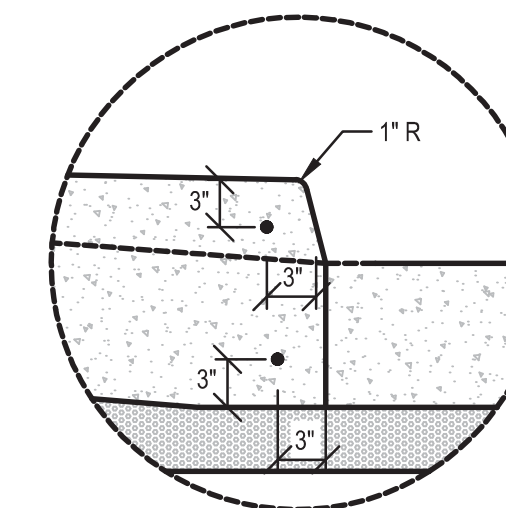
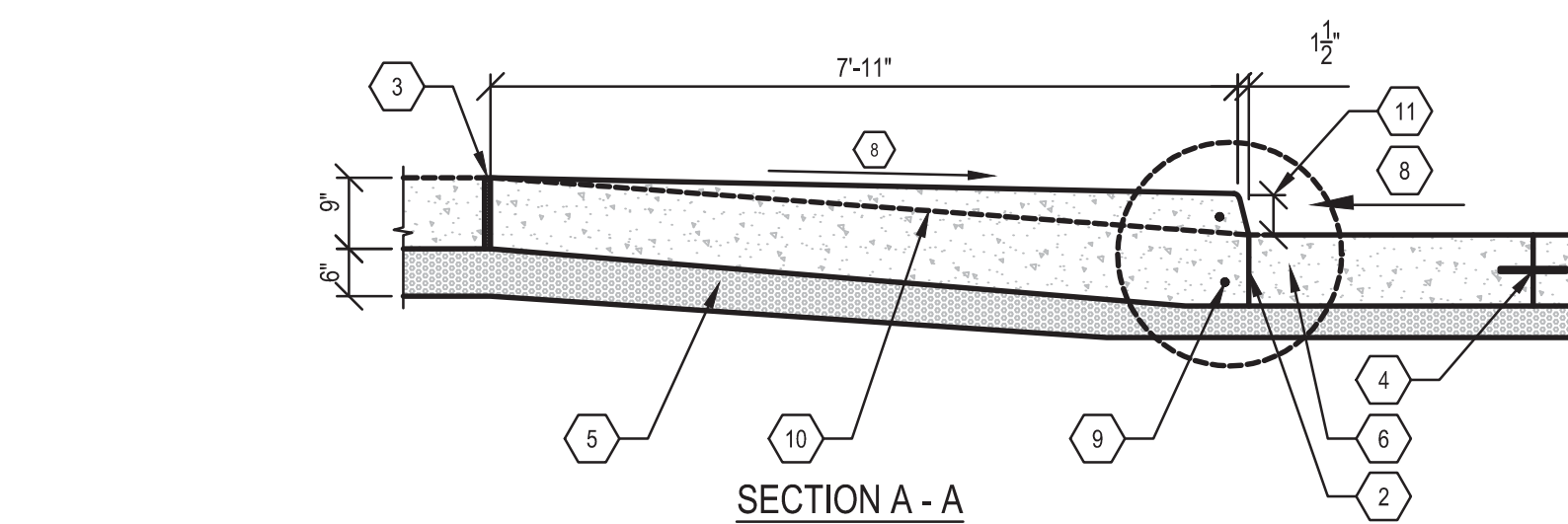
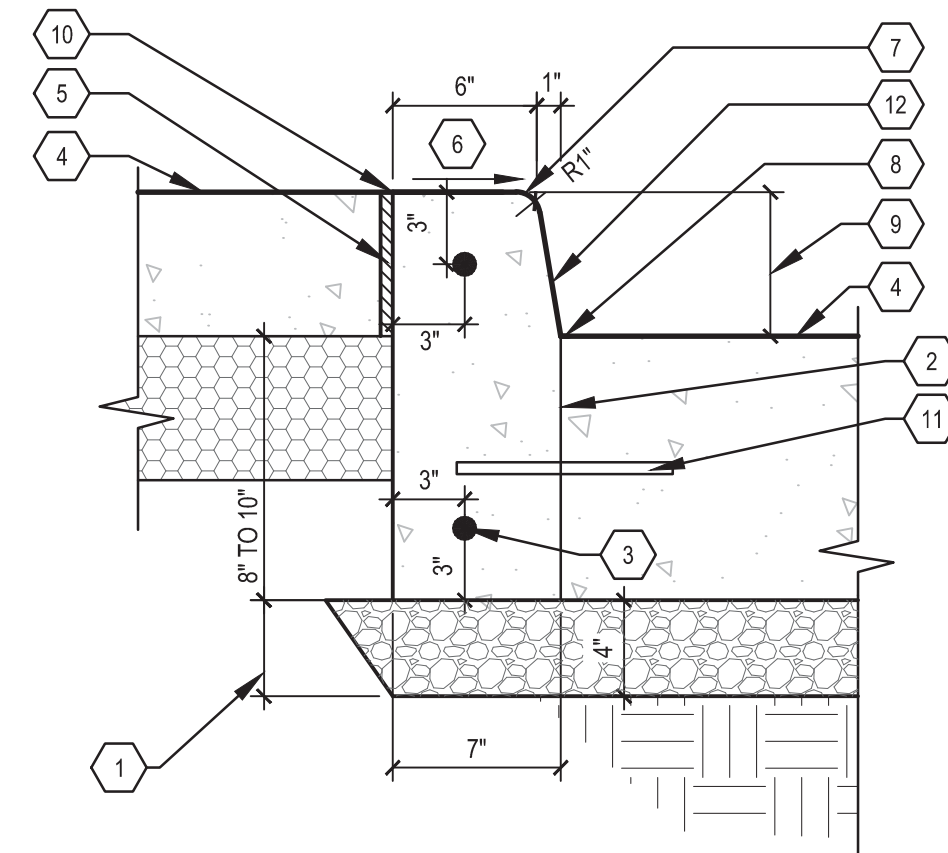
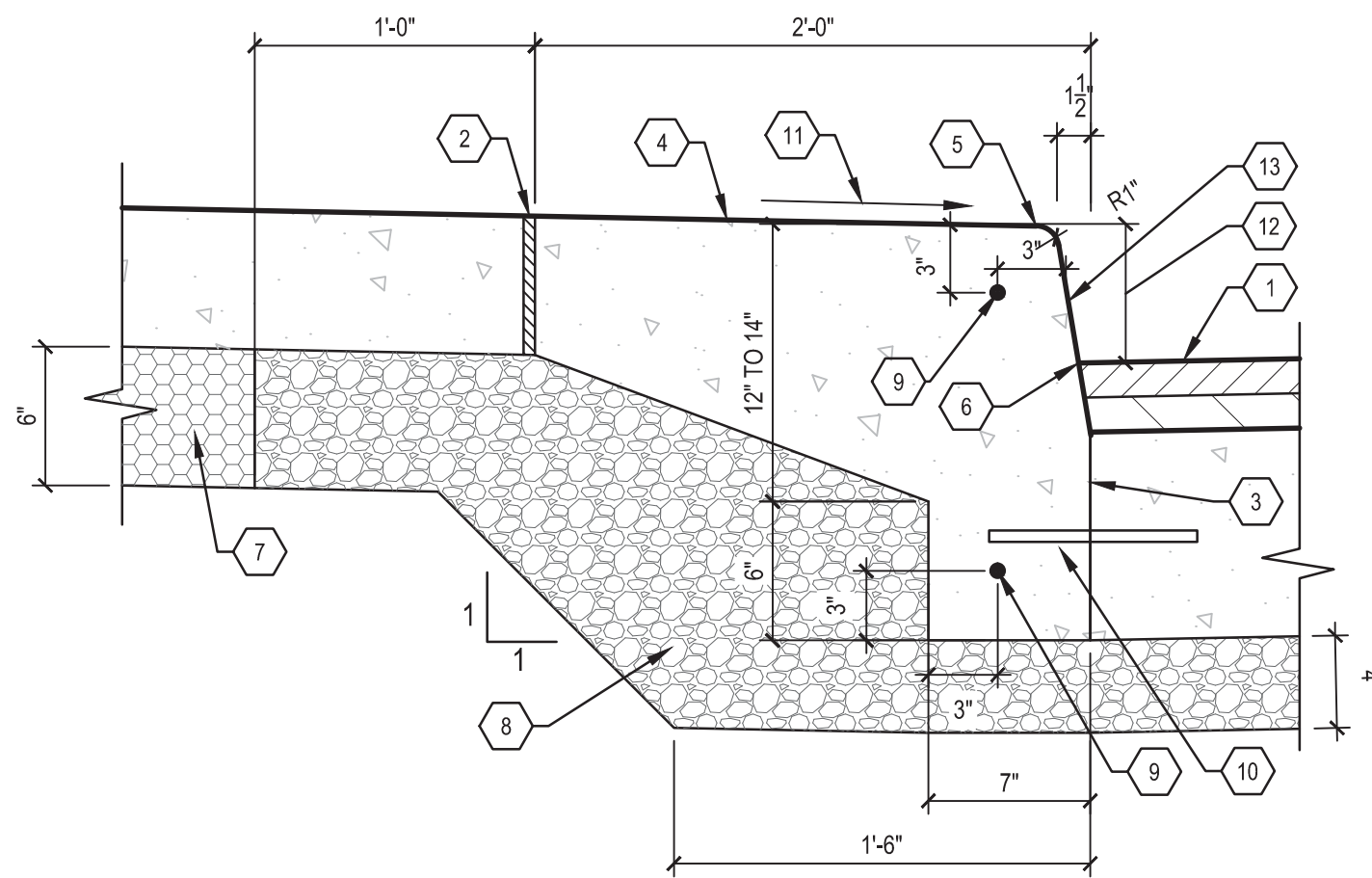
PROJECT NUMBER  
 DRAWING NUMBER  
 M-C5.1



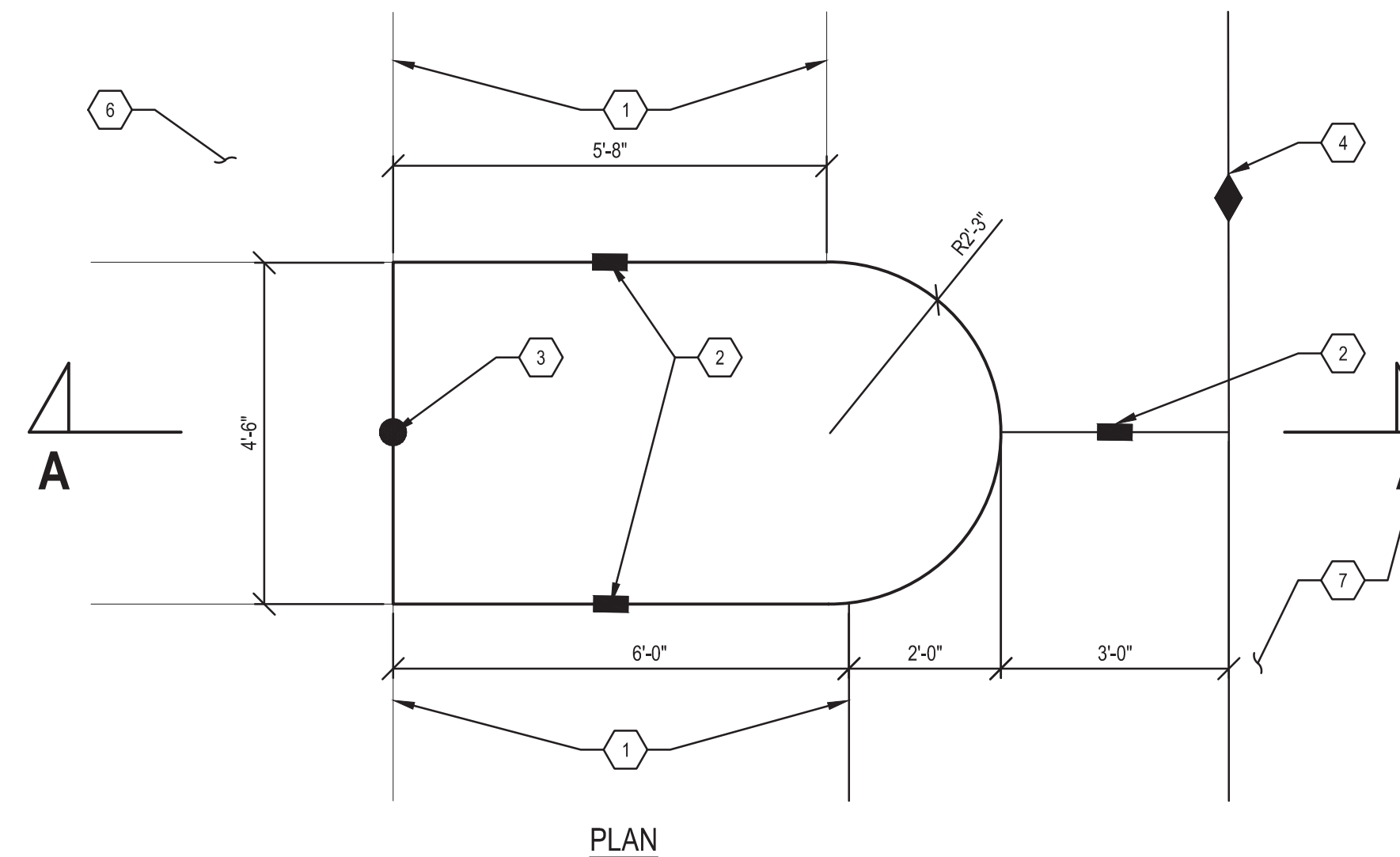
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- 1 ADJACENT PAVEMENT
- 2 SEALED EXPANSION JOINT M-C5.1
- 3 TIED COLD (CONSTRUCTION) JOINT M-C5.1
- 4 MEDIUM BROOM FINISH ON EXPOSED SURFACES PARALLEL WITH CURB
- 5 TOP OF CURB ELEVATION NOTED ON GRADING PLAN
- 6 GUTTER ELEVATION NOTED ON GRADING PLANS
- 7 BASE MATERIAL PER PAVEMENT TYPE
- 8 AGGREGATE BASE, 21AA
- 9 #4 BAR, EPOXY COATED, CONTINUOUS
- 10 WHEN ADJACENT TO CONCRETE PAVEMENT OR CONCRETE BASE PROVIDE #4 X 9" EPOXY COATED TIE BARS, 24" O.C.
- 11 SLOPE TO MATCH CROSS SLOPE AT ADJACENT SIDEWALK IN AREA WITHOUT ADJACENT SIDEWALK SLOPE AT 1.5%.
- 12 CURB HEIGHT DEFINED ON GRADING PLANS
- 13 MEDIUM BROOM FINISH, EXPOSED SURFACES, PARALLEL WITH CURB

- 1 4" AGGREGATE BASE, 21AA
- 2 TIED COLD (CONSTRUCTION) JOINT M-C5.1
- 3 #4 BAR, EPOXY COATED, CONTINUOUS
- 4 ADJACENT PAVEMENT OR OTHER SITE CONDITION AS SHOWN ON ASSOCIATED CURB, CONC, SEPARATE, 6 INCH, MODIFIED DETAILS M-C5.3
- 5 SEALED EXPANSION JOINT, WHEN ADJACENT TO PAVEMENT M-C5.1
- 6 SLOPE AT 1.5%
- 7 TOP OF CURB ELEVATION NOTED ON GRADING PLANS
- 8 GUTTER ELEVATION NOTED ON GRADING PLANS
- 9 CURB HEIGHT DEFINED ON GRADING PLANS
- 10 WHEN BACK OF CURB IS NOT ADJACENT TO PAVEMENT, PROVIDE 1" RADIUS M-C5.1
- 11 WHEN ADJACENT TO CONCRETE PAVEMENT OR CONCRETE BASE PAVEMENT PROVIDE #4 X 9", EPOXY COATED TIE BARS, 24" O.C.
- 12 MEDIUM BROOM FINISH, EXPOSED SURFACES, PARALLEL WITH CURB



CURB FACE ENLARGEMENT



- 1 CONTROL JOINT
- 2 COLD JOINT
- 3 SEALED EXPANSION JOINT
- 4 TIED COLD (CONSTRUCTION) JOINT M-C5.1
- 5 AGGREGATE BASE, 21AA
- 6 \_CONC, PAVT, MISC, 9 INCH, REINF, MODIFIED M-C5.1
- 7 EXISTING CONCRETE ROAD PAVEMENT
- 8 SLOPE DEFINED ON GRADING PLAN
- 9 #4 BAR CONT., EPOXY COATED, CONTINUOUS
- 10 TOP OF ADJACENT DRIVEWAY CONCRETE
- 11 CURB HEIGHT PER GRADING PLAN

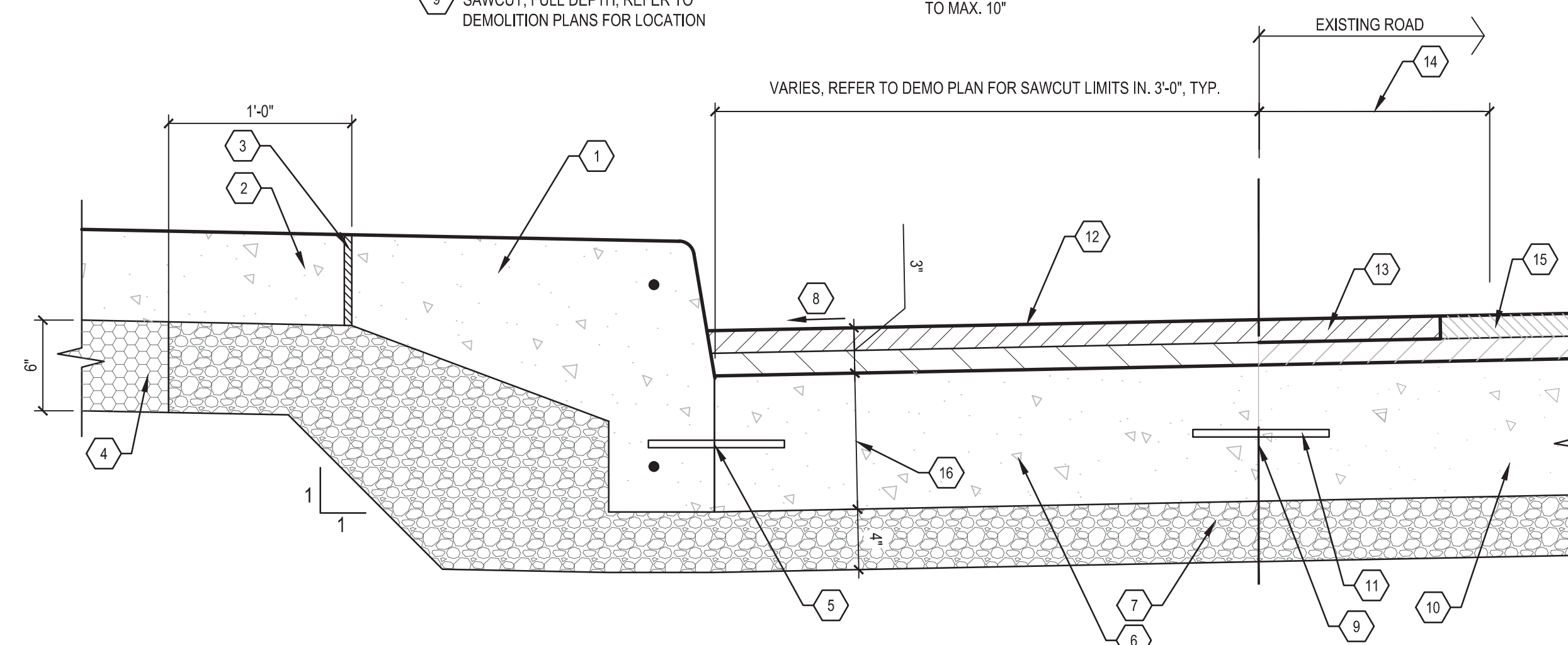
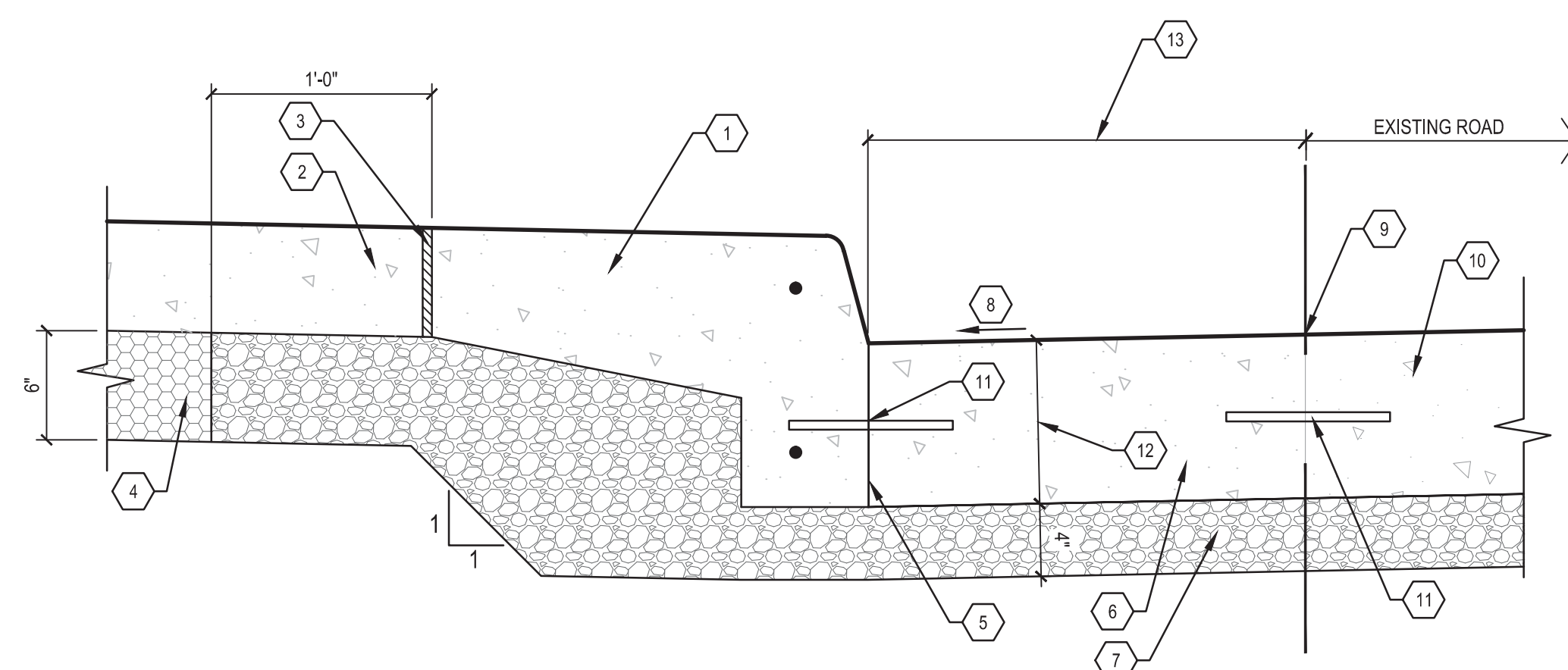
1 INTEGRAL CURB AND SIDEWALK, 2 FOOT, MODIFIED  
SECTION NTS

2 CURB, CONC. SEPARATE, 6 INCH, MODIFIED  
SECTION NTS

3 CURB, CONC. ISLAND  
SECTION AND PLAN NTS

- 1 INTEGRAL CURB AND SIDEWALK, 2 FOOT, MODIFIED M-C5.2
- 2 SIDEWALK, CONC, 6 INCH, MODIFIED M-C5.1
- 3 SEALED EXPANSION JOINT M-C5.1
- 4 BASE MATERIAL PER PAVEMENT TYPE
- 5 TIED COLD (CONSTRUCTION) JOINT M-C5.1
- 6 \_CONC, PAVT, MISC, 9 INCH, REINF, MODIFIED M-C5.1
- 7 AGGREGATE BASE, 21AA
- 8 SLOPE TO MATCH ADJACENT PAVEMENT AS SHOWN ON THE GRADING PLAN MIN SLOPE AT GUTTER 1%
- 9 SAWCUT, FULL DEPTH, REFER TO DEMOLITION PLANS FOR LOCATION
- 10 EXISTING CONCRETE PAVEMENT
- 11 #4 X 18" EPOXY COATED TIE BARS, DRILLED AND EPOXY GROUTED INTO EXISTING CONCRETE PAVEMENT 24" O.C.
- 12 DEPTH OF CONCRETE TO MATCH DEPTH OF ADJACENT CONCRETE BASE, MIN. 8" TO MAX. 10"
- 13 VARIES, REFER TO DEMO AND MATERIALS PLANS FOR WIDTH, 2'-0" MIN.

- 1 INTEGRAL CURB AND SIDEWALK, 2 FOOT, MODIFIED M-C5.2
- 2 SIDEWALK, CONC, 6 INCH, MODIFIED M-C5.1
- 3 SEALED EXPANSION JOINT M-C5.1
- 4 BASE MATERIAL PER PAVEMENT TYPE
- 5 TIED COLD (CONSTRUCTION) JOINT M-C5.1
- 6 \_CONC, BASE PAVT, 9 INCH, MODIFIED M-C5.1
- 7 AGGREGATE BASE, 21AA
- 8 SLOPE TO MATCH ADJACENT PAVEMENT AS SHOWN ON GRADING PLANS MIN. SLOPE AT GUTTER 1%
- 9 SAWCUT, FULL DEPTH, REFER TO DEMOLITION PLANS FOR LOCATION
- 10 EXISTING CONCRETE PAVEMENT
- 11 #4 X 18" EPOXY COATED TIE BARS, DRILLED AND EPOXY GROUTED INTO EXISTING CONCRETE PAVEMENT 24" O.C.
- 12 HMA, 4E3 OR HAND PATCHING (1 1/2" 4E3 WEARING SURFACE ON 1 1/2" 4E3 BINDER COURSE.)
- 13 MILL EXISTING BITUMINOUS SURFACE & RESURFACE W/ 1 1/2" HMA, 4E3
- 14 HMA BUTT JOINT WIDTH TO BE 1'-0" UNLESS NOTED OTHERWISE ON PLANS
- 15 EXISTING HMA PAVEMENT
- 16 DEPTH OF CONCRETE TO MATCH DEPTH OF ADJACENT CONCRETE BASE, MIN. 8" TO MAX. 10"



4 INTEGRAL CURB AND SIDEWALK, 2 FOOT, MODIFIED - ADJACENT TO CONCRETE PAVEMENT  
SECTION NTS

5 INTEGRAL CURB AND SIDEWALK, 2 FOOT, MODIFIED - ADJACENT TO HMA PAVEMENT  
SECTION NTS

Midtown Loop  
Phase IV  
Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



Midtown Detroit, Inc.

SMITHGROUP JJR

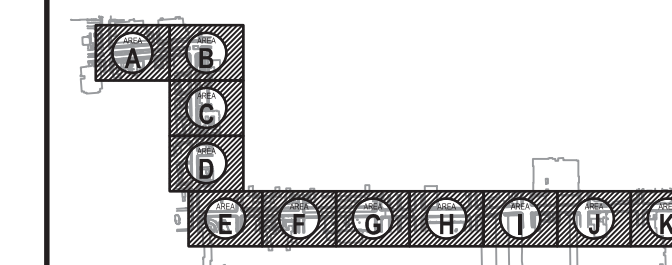
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ISSUED FOR	REV	DATE
BIDDING DOCUMENTS	5	MAY 21, 2013
BIDDING DOCUMENTS	4	MAY 02, 2013
100% CONSTRUCTION DOCUMENTS	3	APR 01, 2013
GRADE INSPECTION	2	JAN 30, 2013
80% CONSTRUCTION DOCUMENTS	1	JAN 07, 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05, 2012

SEALS AND SIGNATURES

KEY PLAN

Project North



DRAWING TITLE  
PAVEMENT DETAILS 2

GRAPHIC SCALE AS NOTED  
TAKES PRECEDENCE  
FULL SIZE SCALE (24x36)  
24708.003

PROJECT NUMBER

M-C5.2

DRAWING NUMBER

294 of 497



Midtown Loop  
Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



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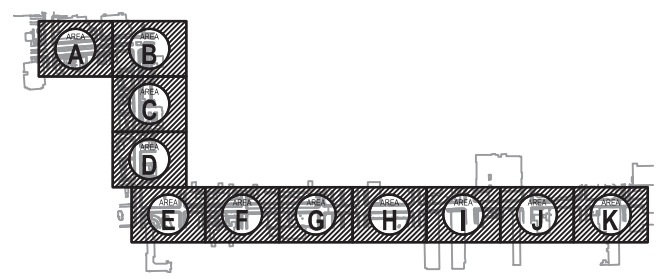
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SEALS AND SIGNATURES

KEY PLAN

Project North



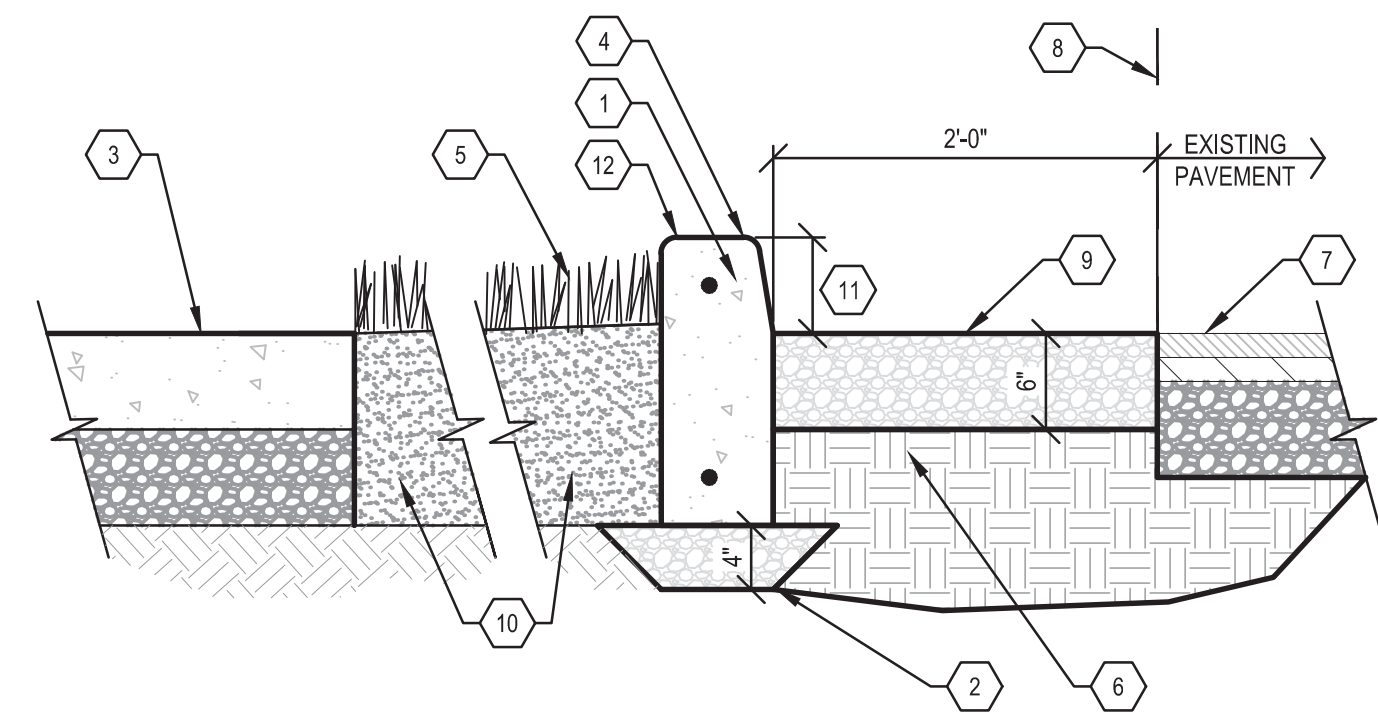
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PAVEMENT DETAILS 3

GRAPHIC SCALE  
TAKES PRECEDENCE  
FULL SIZE SCALE (24x36)  
AS NOTED  
24708.003

PROJECT NUMBER

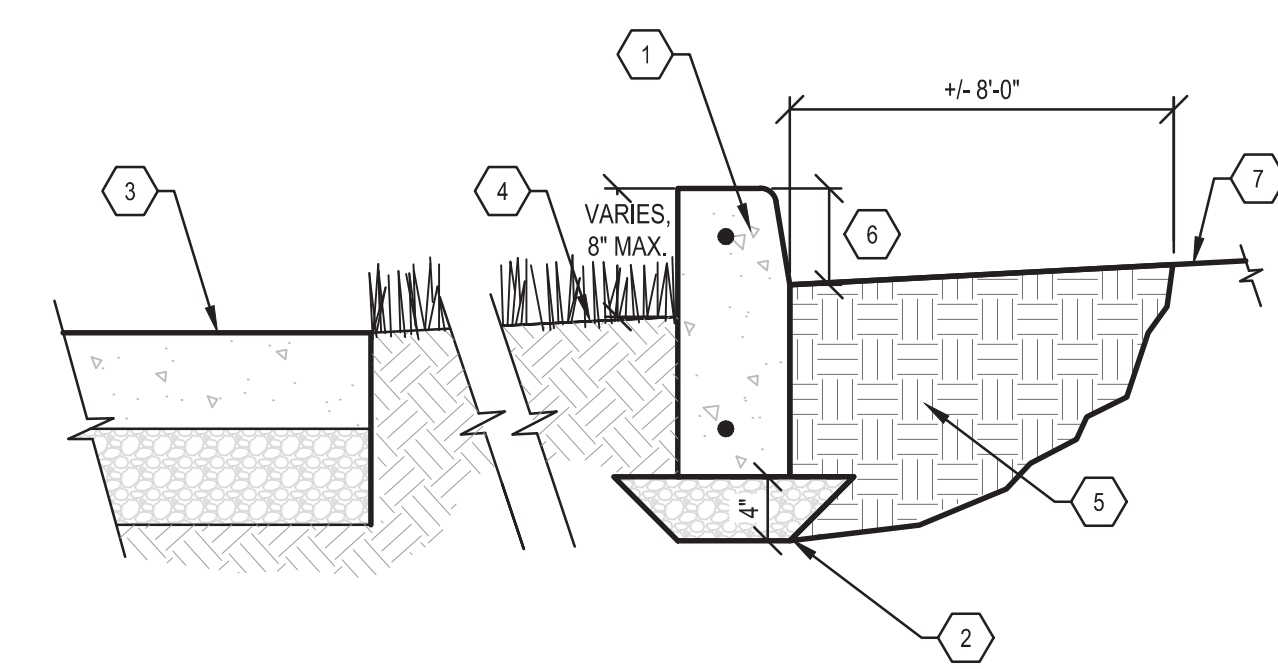


DRAWING NUMBER  
M-C5.3  
295 of 497



- 1 CURB, CONC. SEPARATE, 6 INCH, MODIFIED
- 2 AGGREGATE BASE, 21AA
- 3 SIDEWALK, CONC. 6 INCH, MODIFIED
- 4 TOP OF CURB ELEVATION
- 5 PLANTING BED
- 6 EXCAVATE AND BACKFILL WITH EXISTING SOILS
- 7 EXISTING CONCRETE OR ASPHALT PAVEMENT
- 8 CLEAN CONSISTENT SAW CUT AT PAVEMENT EDGE, FULL DEPTH, REVELED, BROKEN, AND IRREGULAR SAWCUT EDGE SHALL BE RE-SAWCUT AT NO ADDITIONAL COST.
- 9 AGGREGATE SURFACE CSE (MDOT 23A AGGREGATE)
- 10 PLANTING MIX
- 11 REFER TO GRADING PLANS FOR CURB HEIGHT
- 12 1" RADIUS ON BACK OF CURB

NOTE:  
1. REFER TO GRADING PLANS FOR CURB HEIGHTS, ADJACENT PLANTING BED GRADES, AND AGGREGATE MAINTENANCE STRIP GRADES.

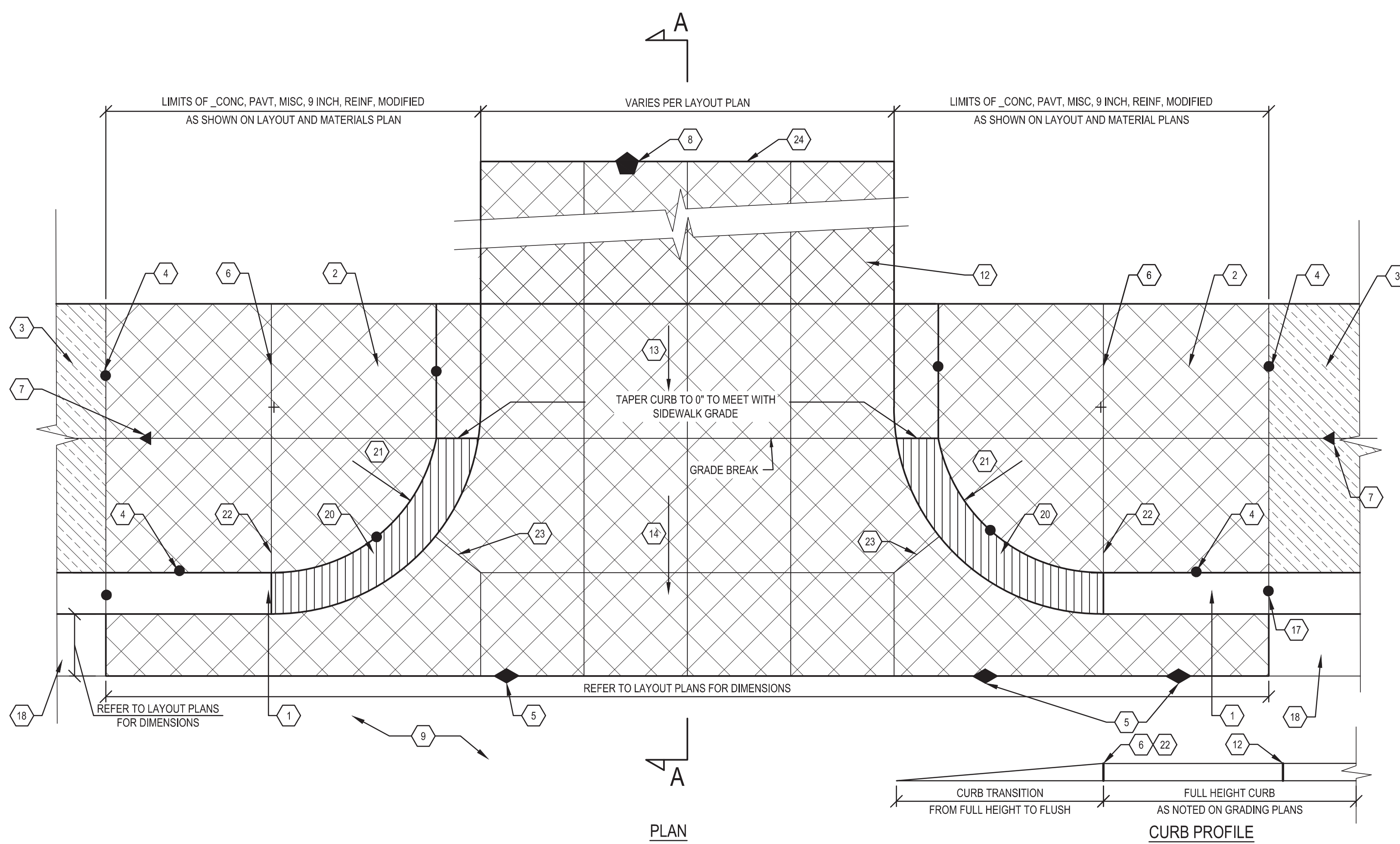


- 1 CURB, CONC. SEPARATE, 6 INCH, MODIFIED
- 2 AGGREGATE BASE, 21AA
- 3 SIDEWALK, CONC. 6 INCH, MODIFIED
- 4 PLANTING BED
- 5 EXCAVATE AND BACKFILL WITH EXISTING SOILS
- 6 REFER TO GRADING PLANS FOR CURB HEIGHT
- 7 MEET EXISTING GRADE

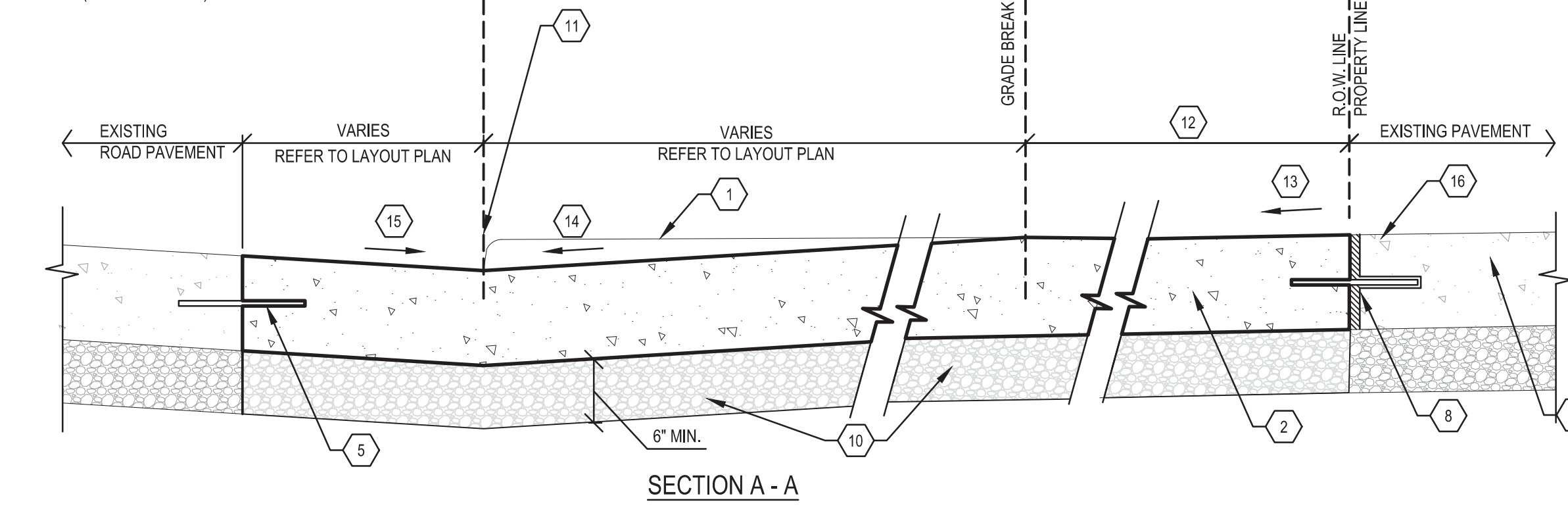
NOTES:  
1. REFER TO GRADING PLANS FOR CURB HEIGHTS, ADJACENT PLANTING BED GRADES, AND EXTENT AND FINISH GRADES FOR EXCAVATION AND GRADING ADJACENT TO CURB.  
2. MEDIUM BROOM FINISH PARALLEL WITH CURB ON ALL EXPOSED SURFACES.

1 CURB, CONC. SEPARATE, 6 INCH, MODIFIED - ADJACENT TO AGGREGATE SURFACE CSE AND PLANTING BED/SEEDING SECTION NTS

2 CURB, CONC. SEPARATE, 6 INCH, MODIFIED - ADJACENT EXISTING SOIL AND PLANTING BED SECTION NTS



- 1 INTEGRAL CURB AND SIDEWALK, 2 FOOT, MODIFIED CONC, PAVT, MISC, 9 INCH, REINF, MODIFIED
- 2 SIDEWALK, CONC, 6 INCH, MODIFIED OR SIDEWALK, CONC, 4 INCH, MODIFIED AS INDICATED ON CONCRETE THICKNESS PLANS
- 3 SEALED EXPANSION JOINT, TYP.
- 4 TIED COLD (CONSTRUCTION) JOINT
- 5 CONTROL JOINT, TYP.
- 6 CHAMFERED COLD (CONSTRUCTION) JOINT
- 7 WHEN DRIVE APPROACH TERMINATES AT CONCRETE PAVEMENT OR CONCRETE BASE PAVEMENT PROVIDE DOWELED SEALED EXPANSION JOINT
- 8 EXISTING CONCRETE OR HMA PAVEMENT
- 9 AGGREGATE BASE, 21AA
- 10 GUTTER LINE/FACE OF CURB LINE
- 11 EXTEND CONCRETE TO R.O.W. LINE AT A MINIMUM UNLESS SHOWN OTHERWISE ON LAYOUT AND MATERIALS PLAN
- 12 MAX CROSS-SLOPE 2% SLOPE AS SHOWN ON GRADING PLANS
- 13 SLOPE AS SHOWN ON GRADING PLANS. MAX SLOPE TO NOT EXCEED 8%.
- 14 SLOPE AS SHOWN ON GRADING PLANS. MAX. SLOPE NOT TO EXCEED 3%.
- 15 IF EXISTING CONCRETE PAVEMENT OR CONCRETE BASE IS LESS THAN 6" AT RIGHT-OF-WAY LINE, CONSTRUCT COLD JOINT WITHOUT TIE BAR.
- 16 SEALED EXPANSION JOINT IN CURB TO ALIGN WITH SEALED EXPANSION JOINT IN SIDEWALK
- 17 HAND PATCHING OR CONC, PAVT, MISC, 9 INCH, REINF, MODIFIED AS INDICATED ON CONCRETE THICKNESS PLANS
- 18 CONTROL JOINTS LOCATED AS SHOWN ON JOINTING PLANS
- 19 CURB TRANSITION FROM FULL HEIGHT TO FLUSH
- 20 RADIUS AS SHOWN ON LAYOUT PLANS
- 21 JOINTS IN SIDEWALK TO ALIGN WITH CURB JOINTS AS SHOWN, TYP.
- 22 JOINTS TO ALIGN WITH CENTER POINTS AS SHOWN, TYP.
- 23 MEET EXISTING GRADE AS SHOWN ON GRADING PLANS



3 DRIVE APPROACH SECTION NTS

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# Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



Midtown Detroit, Inc.

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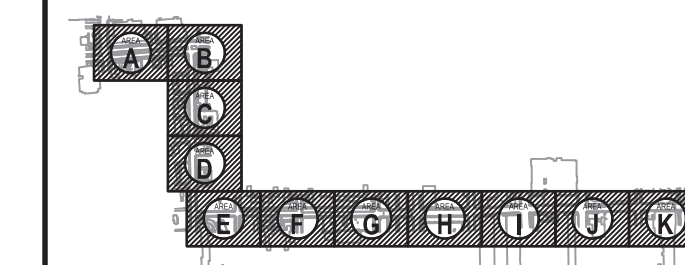
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SEALS AND SIGNATURES

KEY PLAN

Project North



DRAWING TITLE

SITE DETAILS 1

GRAPHIC SCALE

TAKES PRECEDENCE  
FULL SIZE SCALE (24x36)

AS NOTED

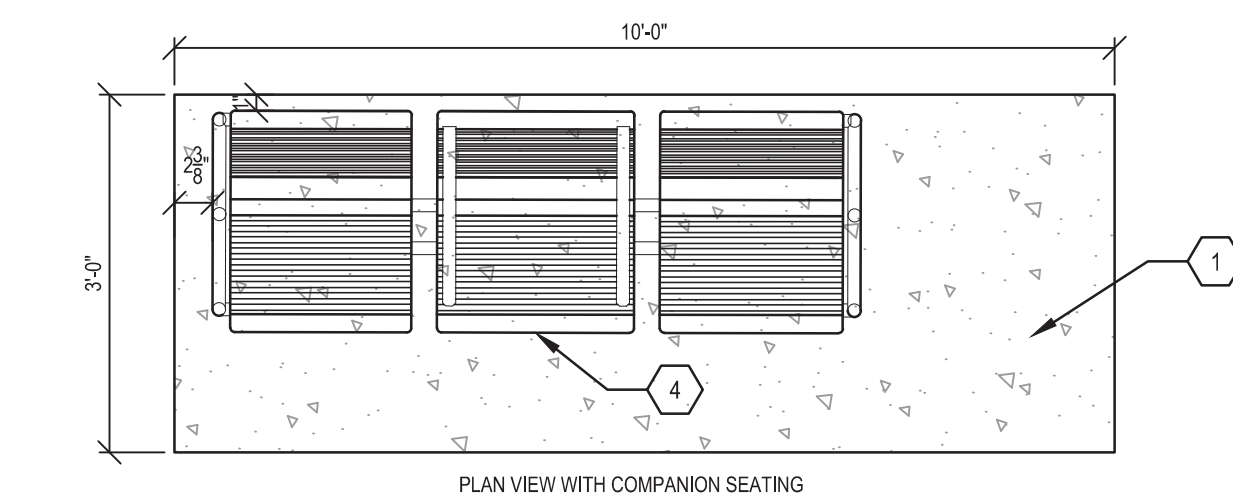
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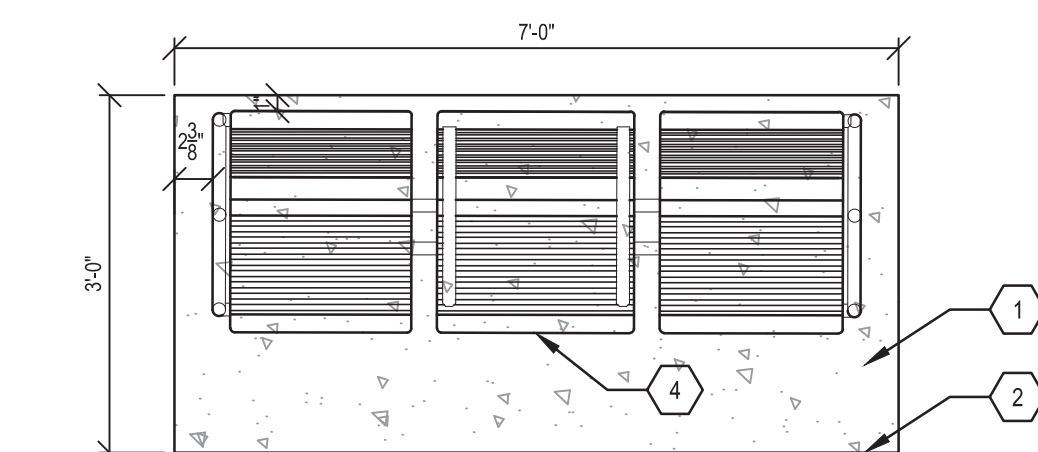
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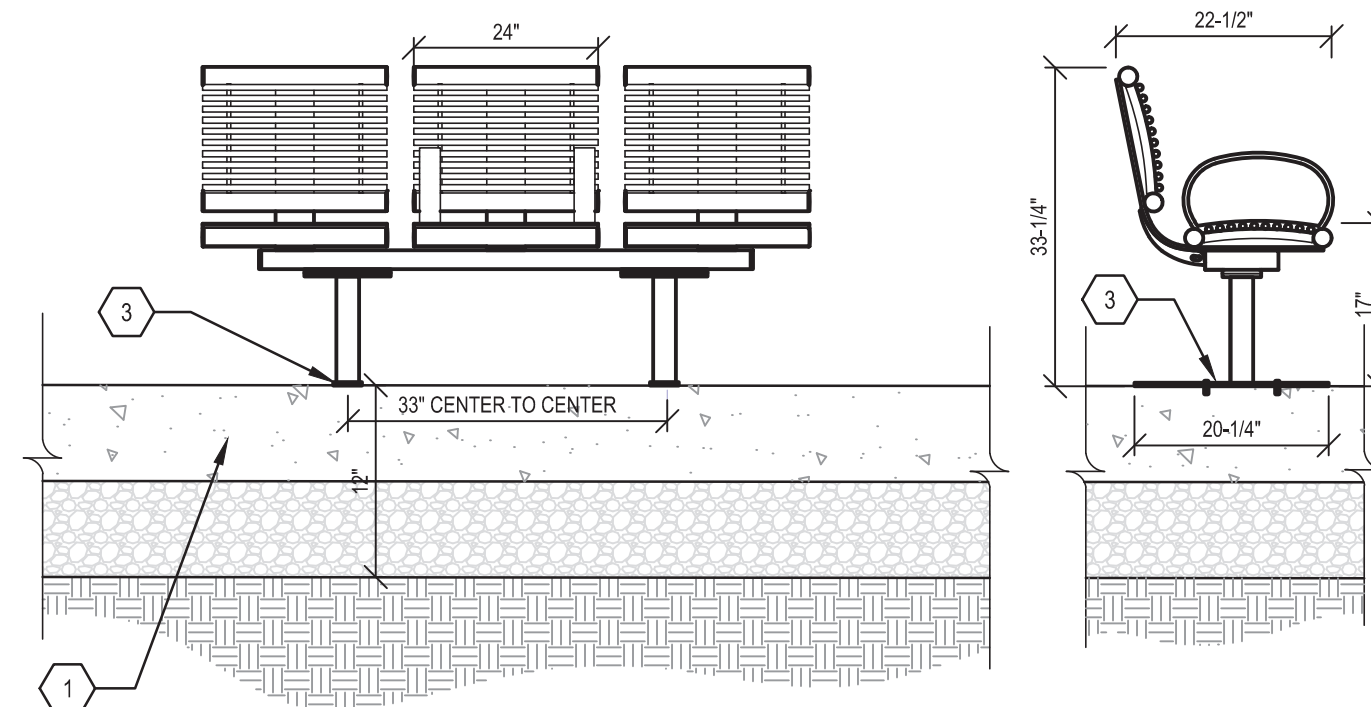
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PLAN VIEW WITH COMPANION SEATING



PLAN VIEW WITHOUT COMPANION SEAT



FRONT ELEVATION

SIDE ELEVATION

NOTES:

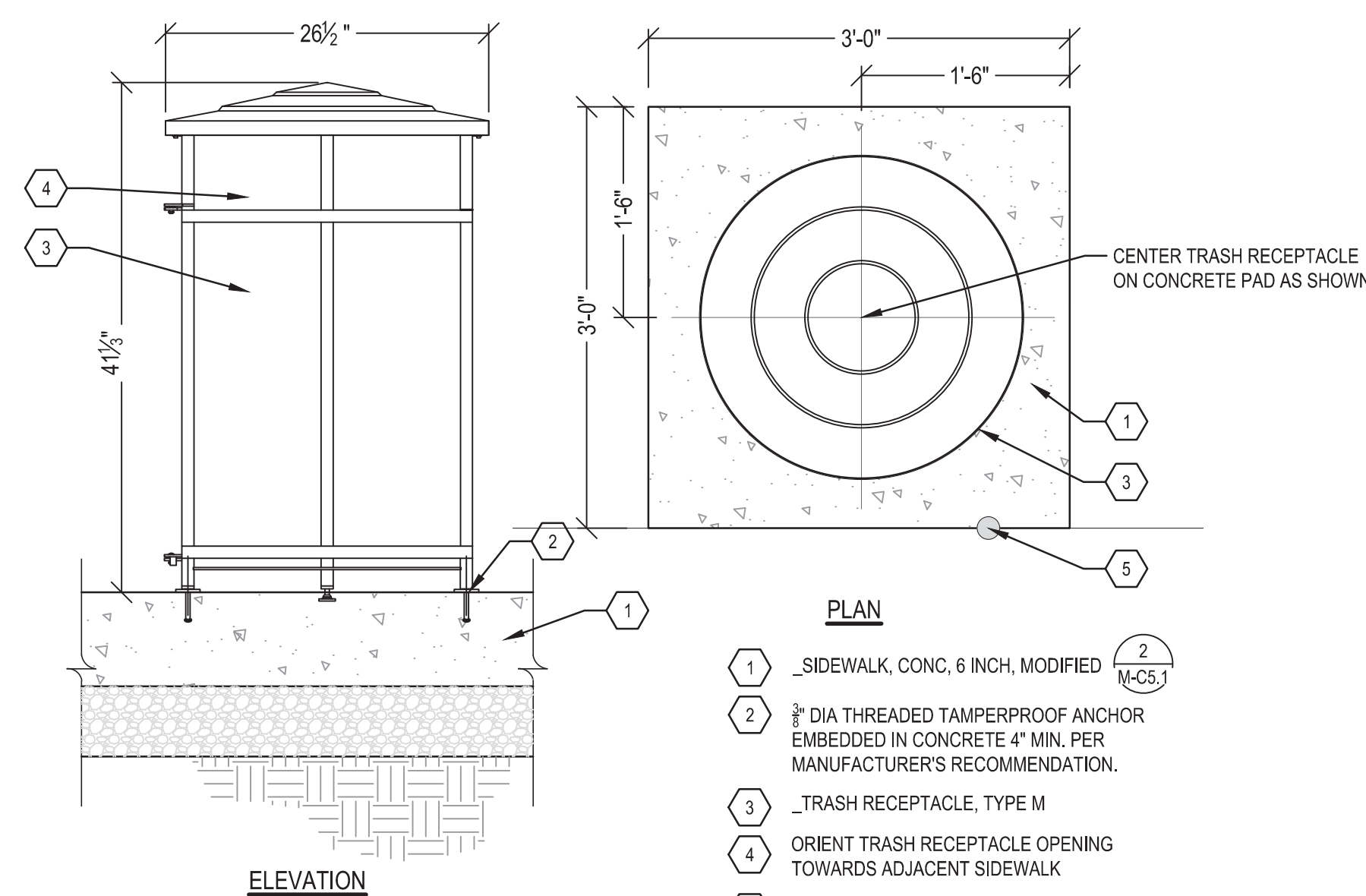
1. ARMRESTS TO BE INSTALLED ON BOTH SIDES OF CENTER SEAT. ALL REQUIRED BOLT-ON MOUNTING TO BE COMPLETED WITH TAMPERPROOF HARDWARE.
2. SEATS ARE TO BE HORIZONTAL STEEL RODS. ALL SEATS ARE TO BE BACKED.
3. CONFIGURATIONS: ALL BENCHES ARE TO BE STANDARD STRAIGHT RAIL IN A 3-SEAT CONFIGURATION. COLOR TO BE SILVER. PROVIDE SAMPLE FOR APPROVAL.
4. INSTALLATION: BENCH IS TO BE SURFACE MOUNTED PER MANUFACTURERS RECOMMENDATIONS WITH TAMPER-PROOF HARDWARE.
5. BENCH SHALL BE VICTOR STANLEY (FST-30, 3-SEAT, SURFACE MOUNTED, 24-INCH SEATS, WITH CENTER ARMS) OR LANDSCAPE FORMS (PRESIDIO, 3-SEAT, SURFACE MOUNTED, WITH CENTER ARMS).

1. SIDEWALK, CONC, 6 INCH, MODIFIED (M-C5.1)
2. SEALED EXPANSION JOINT BETWEEN CONCRETE PAD AND ADJACENT CONCRETE SIDEWALK
3. SEATING IS TO BE SURFACE MOUNTED PER MANUFACTURERS RECOMMENDATIONS WITH TAMPER-PROOF HARDWARE.
4. BENCH, TYPE M

### 1 BENCH, TYPE M

SECTION & PLAN

NTS



PLAN

ELEVATION

1. SIDEWALK, CONC, 6 INCH, MODIFIED (M-C5.1)
2. 3/8" DIA THREADED TAMPERPROOF ANCHOR EMBEDDED IN CONCRETE 4" MIN. PER MANUFACTURERS RECOMMENDATION.
3. TRASH RECEPTACLE, TYPE M
4. ORIENT TRASH RECEPTACLE OPENING TOWARDS ADJACENT SIDEWALK
5. SEALED EXPANSION JOINT WHERE PAD IS ADJACENT TO SIDEWALK CONCRETE

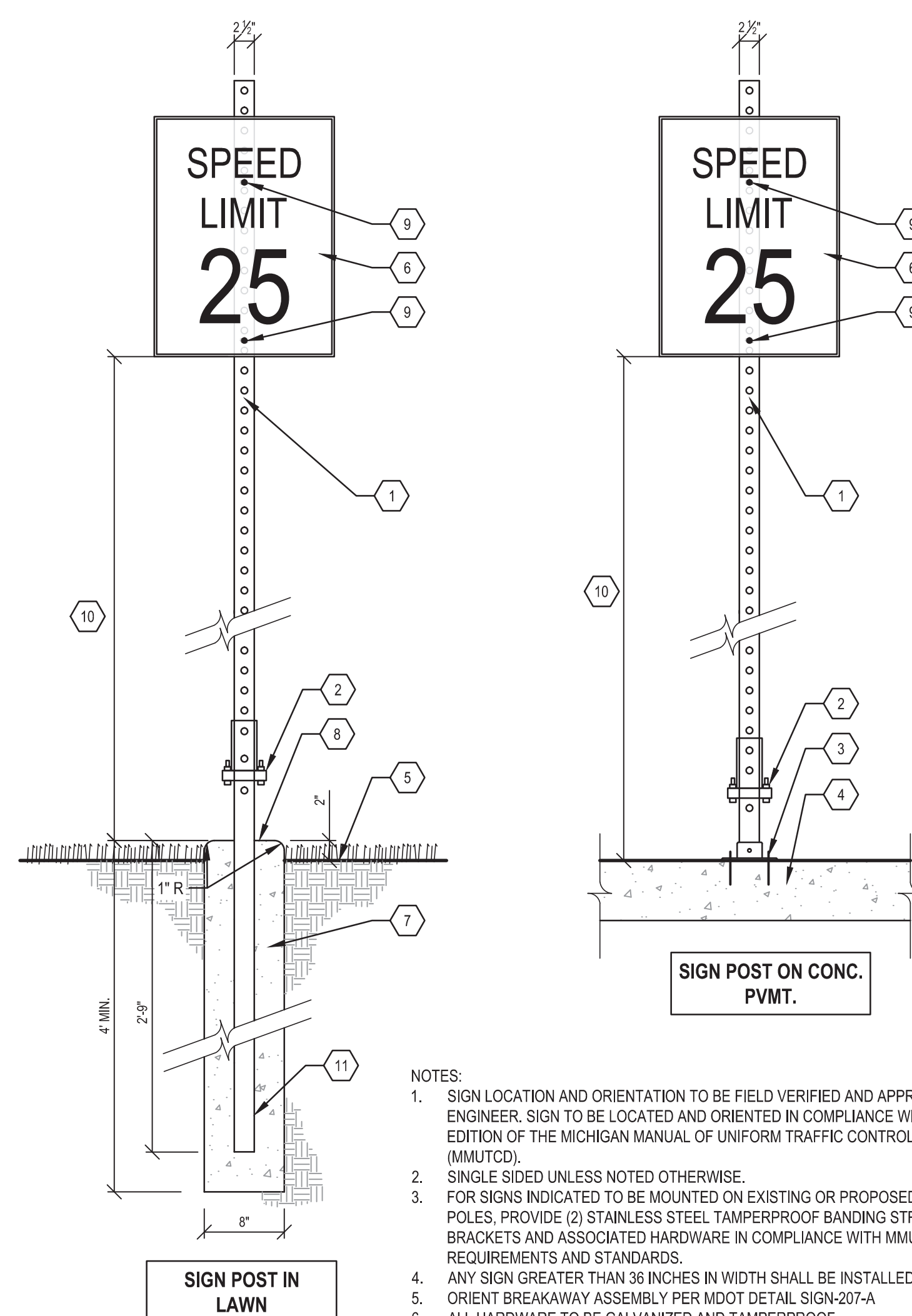
NOTES:

1. SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL.
2. RECEPTACLE SHALL BE SURFACE MOUNTED. PROVIDE MOUNTING PLATE FOR DEEP ANCHORS.
3. COLOR TO BE "SILVER TEXTURE". PROVIDE COLOR SAMPLE FOR APPROVAL.
4. FRAME AND GRILLWORK: GRILLWORK TO BE STANDARD VISTA PATTERN.
5. SIDE ACCESS: LATCH TO BE STANDARD LIFT LATCH, HINGE AND LATCH TO BE STAINLESS STEEL.
6. TRASH RECEPTACLE SHALL BE FORMS + SURFACES MODEL (SLURB-3650), URBAN RENAISSANCE, 36-GALLON, SIDE-OPENING, RECEPTACLE.

### 3 TRASH RECEPTACLE, TYPE M

SECTION & PLAN

NTS



SIGN POST IN LAWN

SIGN POST ON CONC. PVMT.

NOTES:

1. SIGN LOCATION AND ORIENTATION TO BE FIELD VERIFIED AND APPROVED BY ENGINEER. SIGN TO BE LOCATED AND ORIENTED IN COMPLIANCE WITH THE LATEST EDITION OF THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MMUTCD).
2. SINGLE SIDED UNLESS NOTED OTHERWISE.
3. FOR SIGNS INDICATED TO BE MOUNTED ON EXISTING OR PROPOSED UTILITY/LIGHT POLES, PROVIDE (2) STAINLESS STEEL TAMPERPROOF BANDING STRAPS WITH BRACKETS AND ASSOCIATED HARDWARE IN COMPLIANCE WITH MMUTCD, AND MDOT REQUIREMENTS AND STANDARDS.
4. ANY SIGN GREATER THAN 36 INCHES IN WIDTH SHALL BE INSTALLED WITH 2 POSTS.
5. ORIENT BREAKAWAY ASSEMBLY PER MDOT DETAIL SIGN-207-A
6. ALL HARDWARE TO BE GALVANIZED AND TAMPERPROOF.

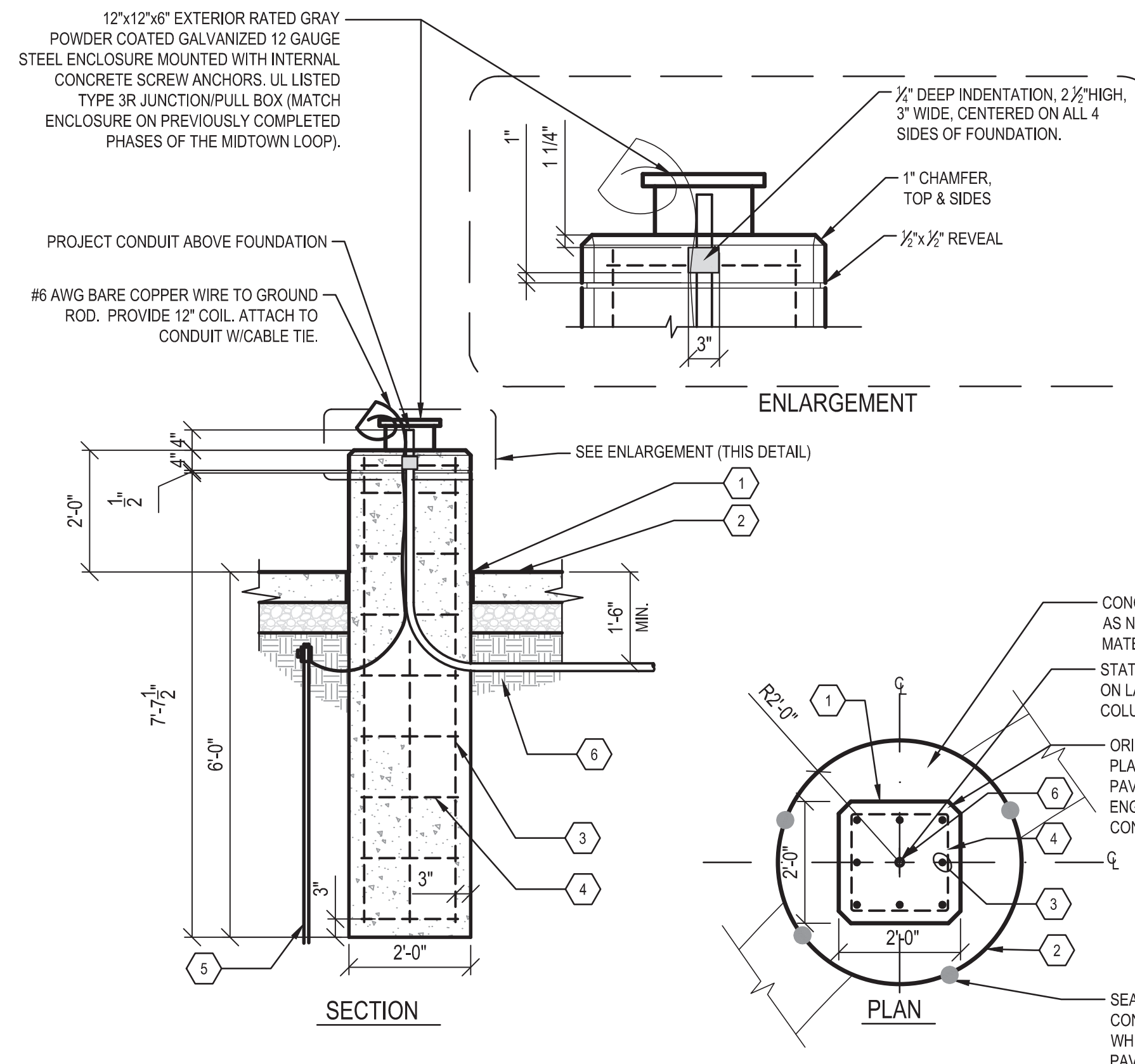
1. 2 1/2" X 2 1/2" X 10Ga. GALVANIZED STEEL PERFORATED SQUARE TUBULAR SIGN POST. (PERFORATIONS TO BE 1/4" DIA.) HEIGHT AS REQUIRED TO ACCOMMODATE MOUNTING HEIGHT AND SIGN SIZE. POST PER MDOT DETAIL SIGN-207-A.
2. BREAKAWAY ASSEMBLY PER MDOT DETAIL SIGN-207-A.
3. ANCHOR BREAKAWAY ASSEMBLY TO CONCRETE PAVEMENT WITH 3/4" GALVANIZED ANCHOR BOLTS WITH MIN. 4" EMBEDMENT (4 PER POST) PER MDOT REQUIREMENTS.
4. CONCRETE PAVEMENT (M-C5.1)
5. FINISH GRADE
6. TRAFFIC SIGN - SIGN GRAPHICS, TEXT, COLORS, AND SIZE AS INDICATED ON SIGNAGE PLANS. TRAFFIC SIGN TO MATCH EXISTING SIGN WHERE APPLICABLE WHEN USED AS A REPLACEMENT. TRAFFIC SIGN SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MICHIGAN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MMUTCD).
7. CONCRETE FOOTING - CONCRETE FOR BREAKAWAY COLUMN FOOTINGS MUST BE GRADE M AS SPECIFIED IN SECTION 601 OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION. CONCRETE SHALL BE USED AND PLACED AGAINST UNDISTURBED SOIL IN AN AUGURED HOLE. THE STEEL ANCHOR SHALL BE HELD IN CORRECT POSITION WITH A TEMPLATE UNTIL THE CONCRETE HAS PROPERLY SET.
8. TOP OF FOUNDATION TO BE SMOOTH AND CONSISTENT FINISH WITHOUT IRREGULARITIES. SLOPE TOP OF FOUNDATION EVENLY FROM THE POST AT THE CENTER TO THE OUTSIDE EDGES FOR DRAINAGE.
9. ATTACH SIGN TO POST WITH GALVANIZED TAMPERPROOF U-POST HARDWARE PER MDOT AND MMUTCD REQUIREMENTS LOCATE ATTACHMENT POINTS OUTSIDE OF TEXT/GRAPHICS AND PAINT HARDWARE TO MATCH SIGN.
10. MIN. 7'-0" FOR SINGLE SIGN, IF SUPPLEMENTARY SIGN IS MOUNTED BELOW, MINIMUM OF 8'-0" TO BOTTOM OF HIGHER SIGN, 5'-0" TO BOTTOM OF LOWER SIGN.
11. 3"X3"X7 Ga. GALVANIZED STEEL TUBULAR INSERT ANCHOR FOR CONCRETE FOOTINGS PER MDOT DETAIL SIGN-207-A.

### 2 SIGN, TYPE III AND POST, STEEL, 3LB

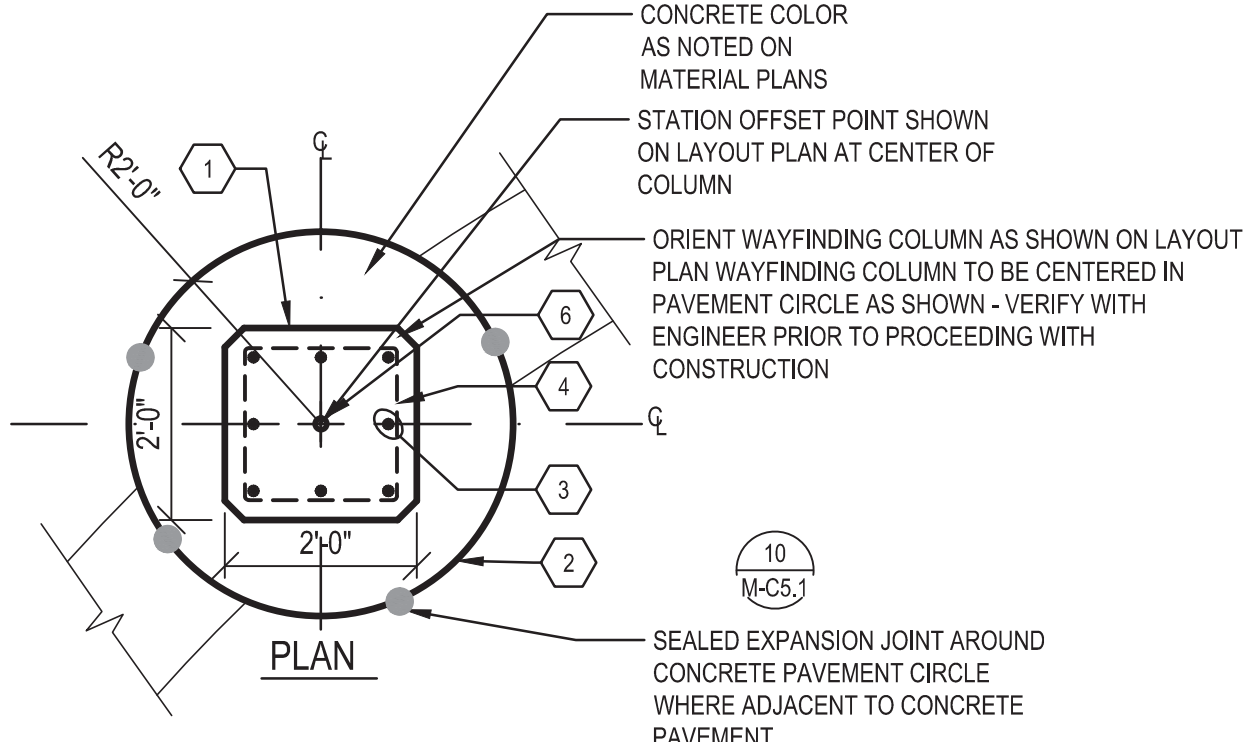
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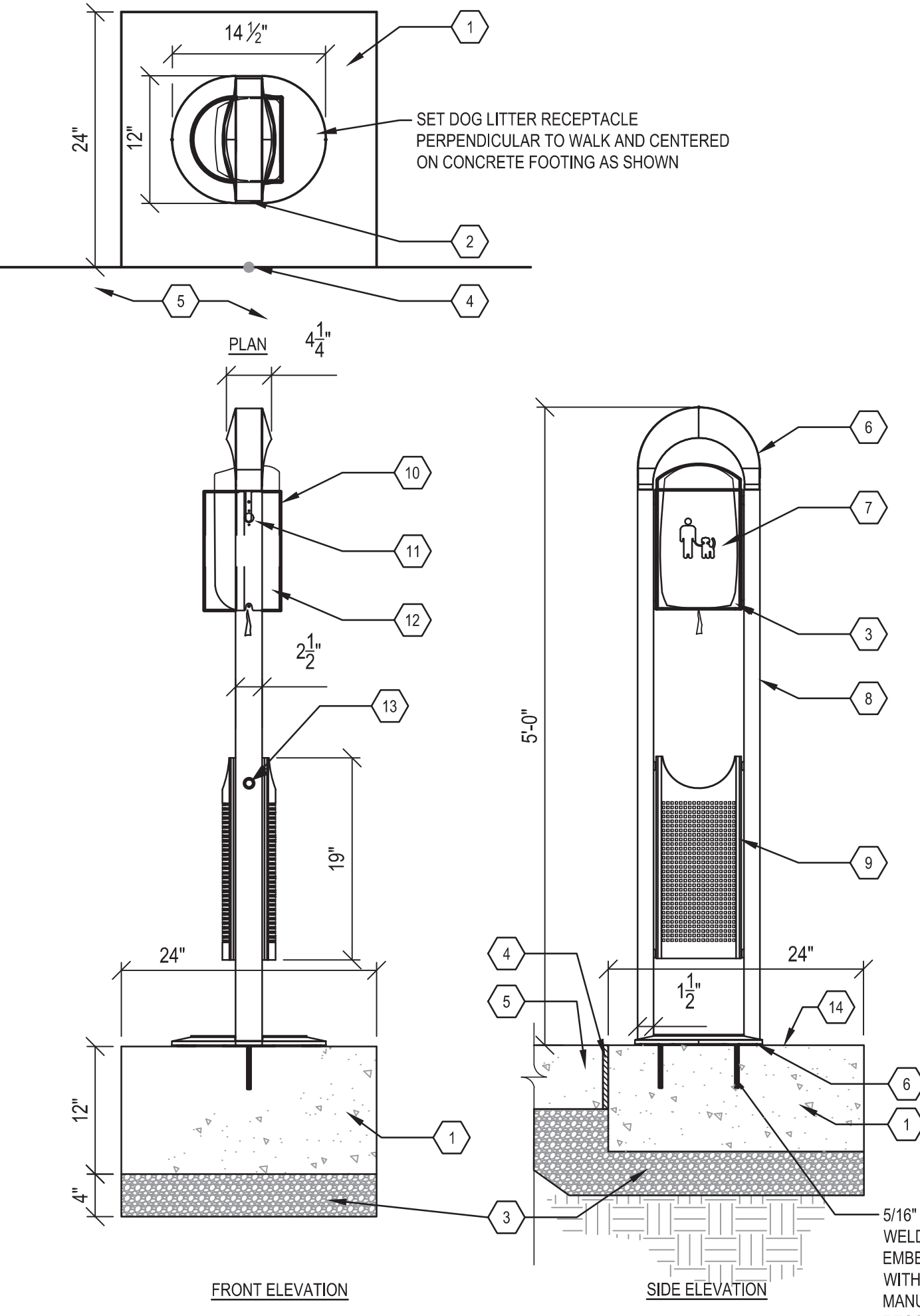


- NOTE:  
1. ALL EXPOSED PORTIONS OF THE CONCRETE TO HAVE A LIGHT ETCH FINISH NO COLOR WITHOUT IMPERFECTIONS, CHIPS, MARKS, AND HONEYCOMB.
- 1 SEALED EXPANSION JOINT AROUND ENTIRE WAYFINDING COLUMN
  - 2 SIDEWALK, CONC. 6 INCH, MODIFIED
  - 3 #6 @ 9" VERT
  - 4 #3 TIES @ 12" HORIZ
  - 5 1/2" x 10' LONG COPPER GROUND ROD
  - 6 1 1/2" PVC CONDUIT (REFER TO ELECTRICAL DRAWINGS)



1 WAYFINDING COLUMN, FOUNDATION

SECTION & PLAN SCALE 1"-1'-0"

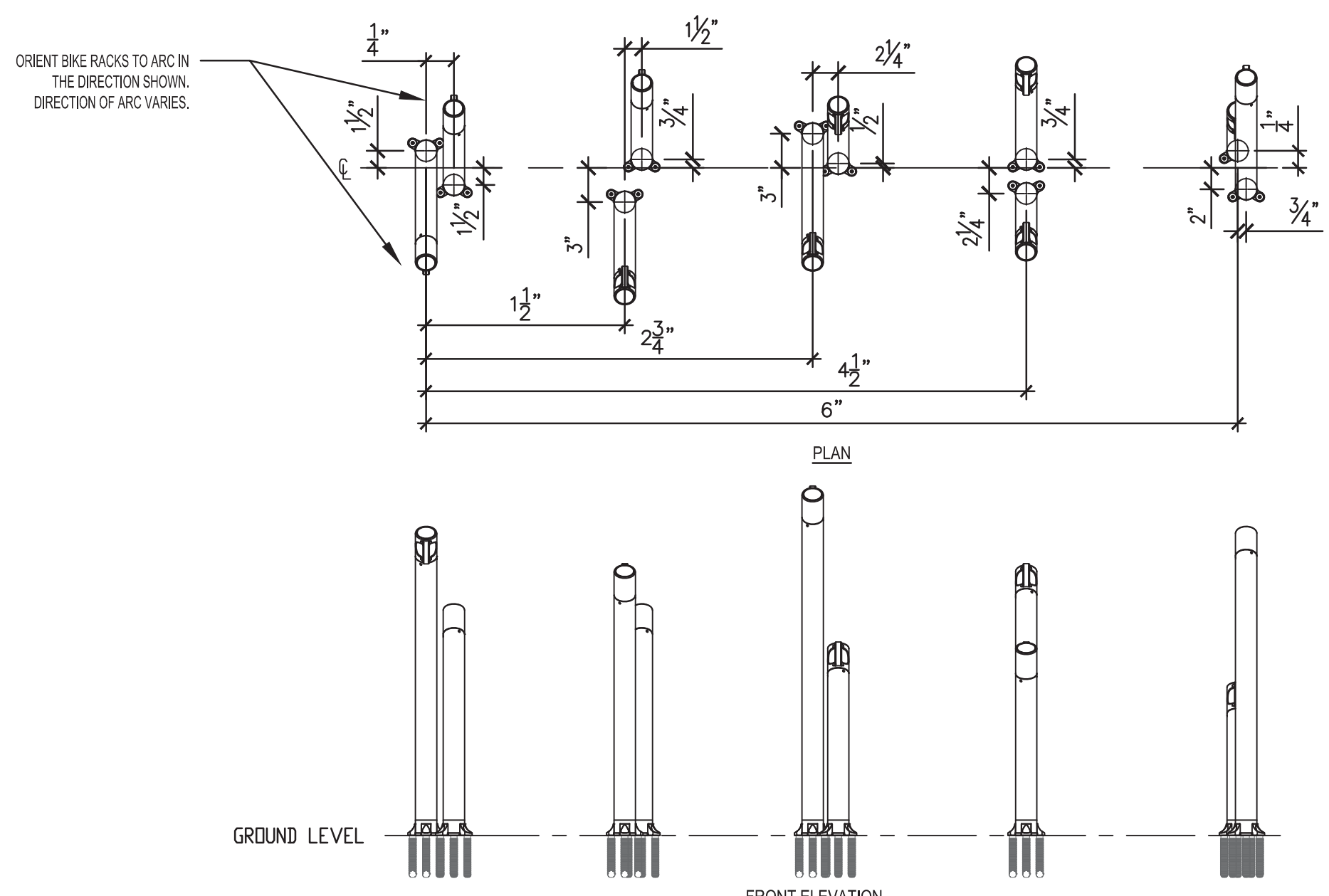


- 1 CONCRETE FOOTING, 12" DEPTH
- 2 DOG LITTER RECEPTACLE, TYPE M
- 3 GRANULAR MATERIAL, CL II
- 4 SEALED EXPANSION JOINT
- 5 CONCRETE SIDEWALK
- 6 ALUMINUM CASTING
- 7 "HAMMER PROOF" DISPENSER DESIGN LASER CUT INTO ALUMINUM HOUSING TYP.(2) PLACES FRONT & BACK
- 8 EXTRUDED ALUMINUM TUBE .100 WALL THICKNESS TYP. (2)
- 9 PERFORATED ALUMINUM .125 THICK LITTER BASKET LIFT TO REMOVE FOR EMPTYING
- 10 STAINLESS STEEL MOUNTING HARDWARE
- 11 DISPENSER LOCK
- 12 ALUMINUM MOUNTING BRACKET-HINGED COVER IN FRONT
- 13 LITTER LOCK
- 14 LIGHT ETCH FINISH AND NO COLOR. CONCRETE FOOTING SET FLUSH WITH ADJACENT CONCRETE SIDEWALK. SLOPE TOP OF CONCRETE TOWARD SIDEWALK AT 1% TO DRAIN.

- NOTES:  
1. DOG LITTER RECEPTACLE, TYPE M TO BE SURFACE MOUNTED PER MANUFACTURER'S RECOMMENDATIONS.  
2. COLOR TO BE "STONE"  
3. DOG LITTER RECEPTACLE, TYPE M TO BE LANDSCAPE FORMS "NAPOLEON".  
4. FIELD VERIFY LOCATION OF DOG LITTER RECEPTACLE AND FOUNDATION WITH ENGINEER PRIOR TO INSTALLATION. ENGINEER MAY ADJUST LOCATION AT NO ADDITIONAL COST.

3 DOG LITTER RECEPTACLE, TYPE M

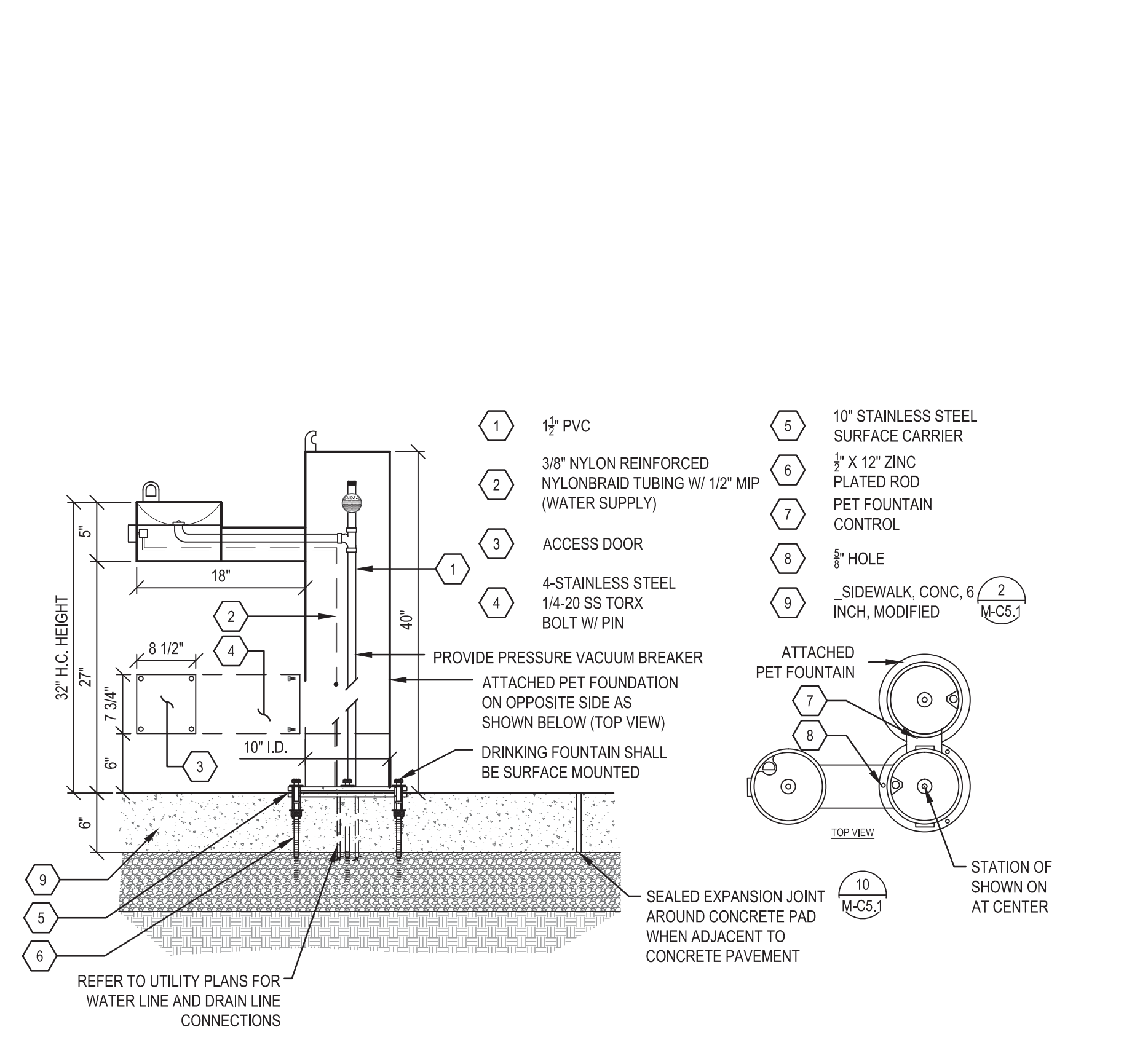
SECTION & PLAN NTS



- NOTES:  
1. ALL UNITS ARE IN INCHES UNLESS OTHERWISE NOTED.  
2. BIKE RACKS SHALL BE SURFACE MOUNTED WITH TAMPER-PROOF HARDWARE PER MANUFACTURER'S RECOMMENDATIONS.  
3. COLOR SHALL BE "SILVER TEXTURE". PROVIDE COLOR SAMPLE FOR APPROVAL.  
4. LAYOUT OF BICYCLE RACKS SHALL BE APPROVED BY ENGINEER PRIOR TO INSTALLATION. LAYOUT SHALL BE BASED ON MANUFACTURER'S CONFIGURATION "C". ENGINEER MAY ADJUST LOCATION AND ORIENTATION OF BICYCLE RACKS AT NO ADDITIONAL COST.  
5. BIKE RACK TO BE FORM & SURFACES BIKE GARDEN CONFIGURATION "C"

2 BIKE RACK, TYPE M

SECTION AND PLAN NTS



- NOTES:  
1. DRINKING FOUNTAIN SHALL BE MOST DEPENDABLE FOUNTAINS MODEL 440 SM.  
2. DRINKING FOUNTAIN TO BE ADA COMPLIANT.  
3. INSTALL ACCORDING TO MANUFACTURER'S SPECIFICATIONS.  
4. PROVIDE STAINLESS STEEL SURFACE CARRIER.  
5. PROVIDE ATTACHED PET FOUNTAIN AND STAINLESS STEEL SURFACE CARRIER.  
6. REFER TO IRRIGATION DETAIL FOR WATER SOURCE DETAIL.  
7. REFER TO UTILITY PLANS FOR WATER AND DRAIN CONNECTIONS.  
8. DRINKING FOUNTAIN LOCATION AND ORIENTATION TO BE FIELD STAKED FOR ENGINEER REVIEW AND APPROVAL.  
9. COLOR TO BE CHROME (SILVER).

4 DRINKING FOUNTAIN

SECTION & PLAN NTS

Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



Midtown Detroit, Inc.

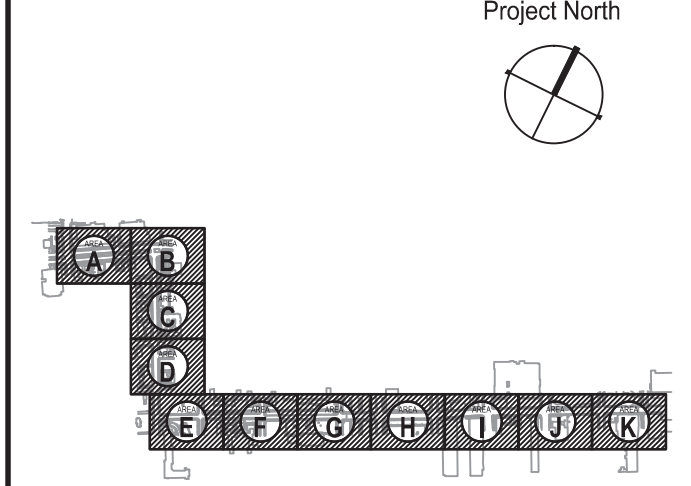
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SEALS AND SIGNATURES

KEY PLAN



DRAWING TITLE

SITE DETAILS 2

GRAPHIC SCALE AS NOTED  
FULL SIZE SCALE (24x36)  
24708.003

PROJECT NUMBER

M-C5.5

DRAWING NUMBER

# Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit

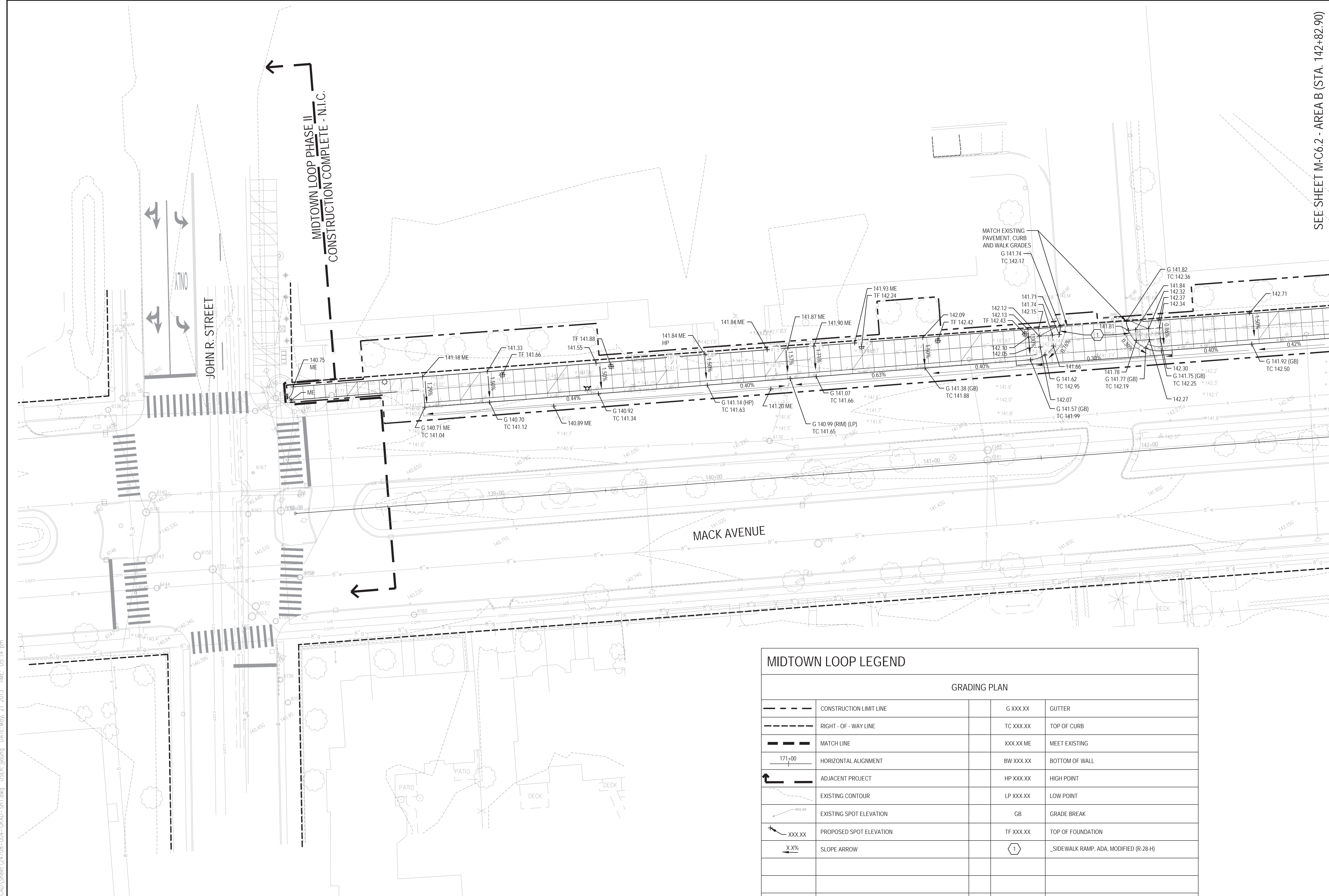


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SEE SHEET M-C6.2 - AREA B (STA. 142+82.90)

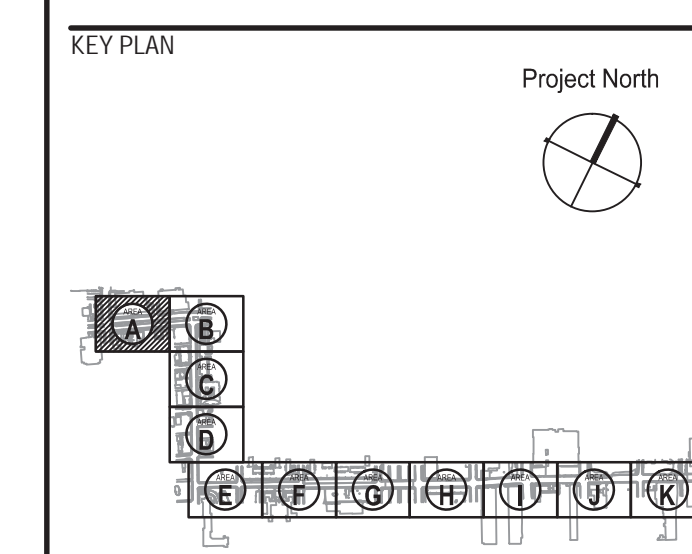


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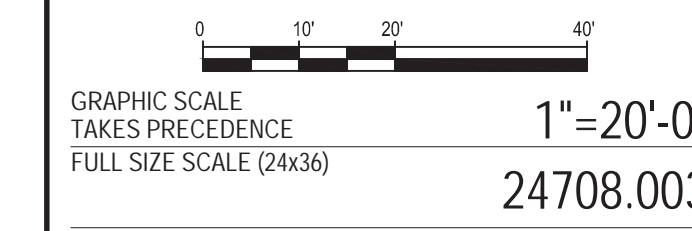
SEALS AND SIGNATURES

M-C6.1 - GRADING		
QTY	UNIT	ITEM DESCRIPTION
2834	Sft	Sidewalk Grading
0	Cyd	Excavation, Earth

MIDTOWN LOOP LEGEND			
GRADING PLAN			
	CONSTRUCTION LIMIT LINE	G XXX.XX	GUTTER
	RIGHT - OF - WAY LINE	TC XXX.XX	TOP OF CURB
	MATCH LINE	XXX.XX ME	MEET EXISTING
	HORIZONTAL ALIGNMENT	BW XXX.XX	BOTTOM OF WALL
	ADJACENT PROJECT	HP XXX.XX	HIGH POINT
	EXISTING CONTOUR	LP XXX.XX	LOW POINT
	EXISTING SPOT ELEVATION	GB	GRADE BREAK
	PROPOSED SPOT ELEVATION	TF XXX.XX	TOP OF FOUNDATION
	SLOPE ARROW		_SIDEWALK RAMP, ADA, MODIFIED (R-28-H)



DRAWING TITLE  
**GRADING PLAN - AREA A**



PROJECT NUMBER  
**M-C6.1**

DRAWING NUMBER  
298 of 497

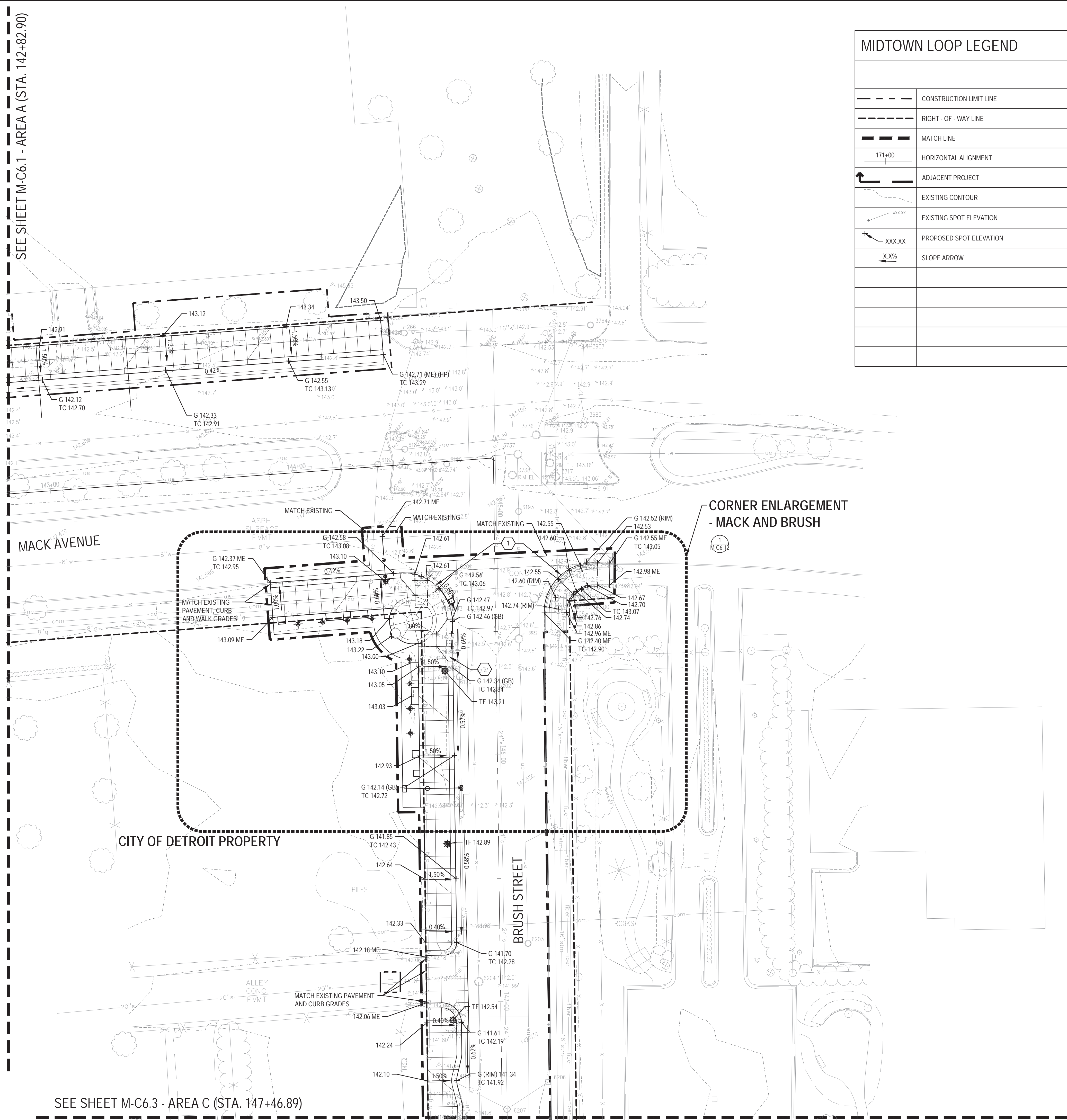
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SEE SHEET M-C6.1 - AREA A (STA. 142+82.90)



SEE SHEET M-C6.3 - AREA C (STA. 147+46.89)

### MIDTOWN LOOP LEGEND

GRADING PLAN			
	CONSTRUCTION LIMIT LINE	G XXX.XX	GUTTER
	RIGHT - OF - WAY LINE	TC XXX.XX	TOP OF CURB
	MATCH LINE	XXX.XX ME	MEET EXISTING
	HORIZONTAL ALIGNMENT	BW XXX.XX	BOTTOM OF WALL
	ADJACENT PROJECT	HP XXX.XX	HIGH POINT
	EXISTING CONTOUR	LP XXX.XX	LOW POINT
	EXISTING SPOT ELEVATION	GB	GRADE BREAK
	PROPOSED SPOT ELEVATION	TF XXX.XX	TOP OF FOUNDATION
	SLOPE ARROW		_SIDEWALK RAMP, ADA, MODIFIED (R-28-H)

REFER TO DRAWING G0.6 FOR GRADING NOTES.

M-C6.2 - GRADING			
QTY	UNIT	ITEM DESCRIPTION	
2593	Sft	Sidewalk Grading	
0	Cyd	Excavation, Earth	

## Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



Midtown Detroit, Inc.

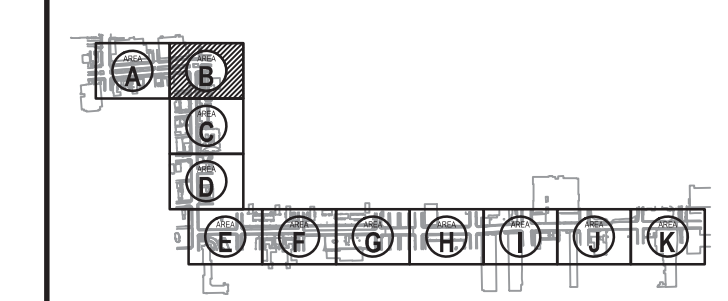
## SMITHGROUP JJR

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SECOND FLOOR  
ANN ARBOR, MI 48104  
734.662.4457  
www.smithgroupjjr.com

ISSUED FOR	REV	DATE
BIDDING DOCUMENTS	5	MAY 21 2013
BIDDING DOCUMENTS	4	MAY 02 2013
100% CONSTRUCTION DOCUMENTS	3	APR 01 2013
GRADE INSPECTION	2	JAN 30 2013
80% CONSTRUCTION DOCUMENTS	1	JAN 07 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05 2012

SEALS AND SIGNATURES

KEY PLAN  
Project North



DRAWING TITLE  
GRADING PLAN - AREA B

GRAPHIC SCALE  
TAKES PRECEDENCE  
FULL SIZE SCALE (24x36)  
1" = 20'-0"  
24708.003

PROJECT NUMBER  
M-C6.2  
DRAWING NUMBER  
299 of 497



3 WORKING DAYS BEFORE YOU DIG  
CALL MISS DIG  
1-800-482-7171

SEE SHEET M-C6.2 - AREA B (STA. 147+46.89)

MIDTOWN LOOP LEGEND

GRADING PLAN			
	CONSTRUCTION LIMIT LINE	G XXX.XX	GUTTER
	RIGHT - OF - WAY LINE	TC XXX.XX	TOP OF CURB
	MATCH LINE	XXX.XX ME	MEET EXISTING
	HORIZONTAL ALIGNMENT	BW XXX.XX	BOTTOM OF WALL
	ADJACENT PROJECT	HP XXX.XX	HIGH POINT
	EXISTING CONTOUR	LP XXX.XX	LOW POINT
	EXISTING SPOT ELEVATION	GB	GRADE BREAK
	PROPOSED SPOT ELEVATION	TF XXX.XX	TOP OF FOUNDATION
	SLOPE ARROW	X.X%	SIDEWALK RAMP, ADA, MODIFIED (R-28-H)

REFER TO DRAWING G0.6 FOR GRADING NOTES.

M-C6.3 - GRADING

QTY	UNIT	ITEM DESCRIPTION
2368	Sft	Sidewalk Grading
0	Cyd	Excavation, Earth

Midtown Loop  
Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



Midtown Detroit, Inc.

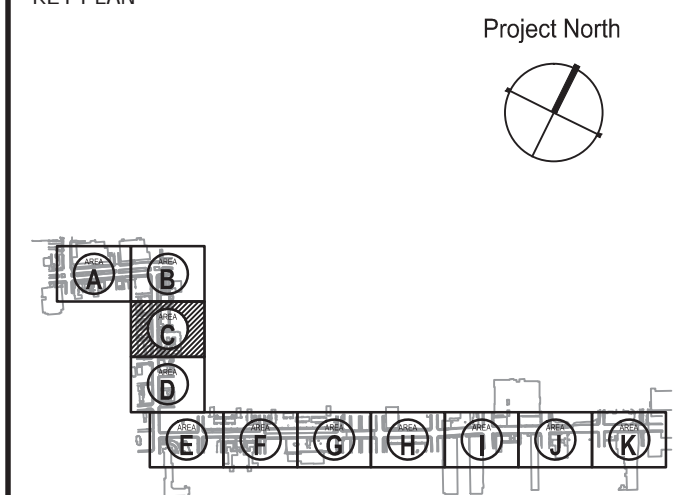
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80% CONSTRUCTION DOCUMENTS	1	JAN 07, 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05, 2012

SEALS AND SIGNATURES

KEY PLAN



DRAWING TITLE  
GRADING PLAN - AREA C

GRAPHIC SCALE  
TAKES PRECEDENCE  
FULL SIZE SCALE (24x36)  
1" = 20'-0"  
24708.003

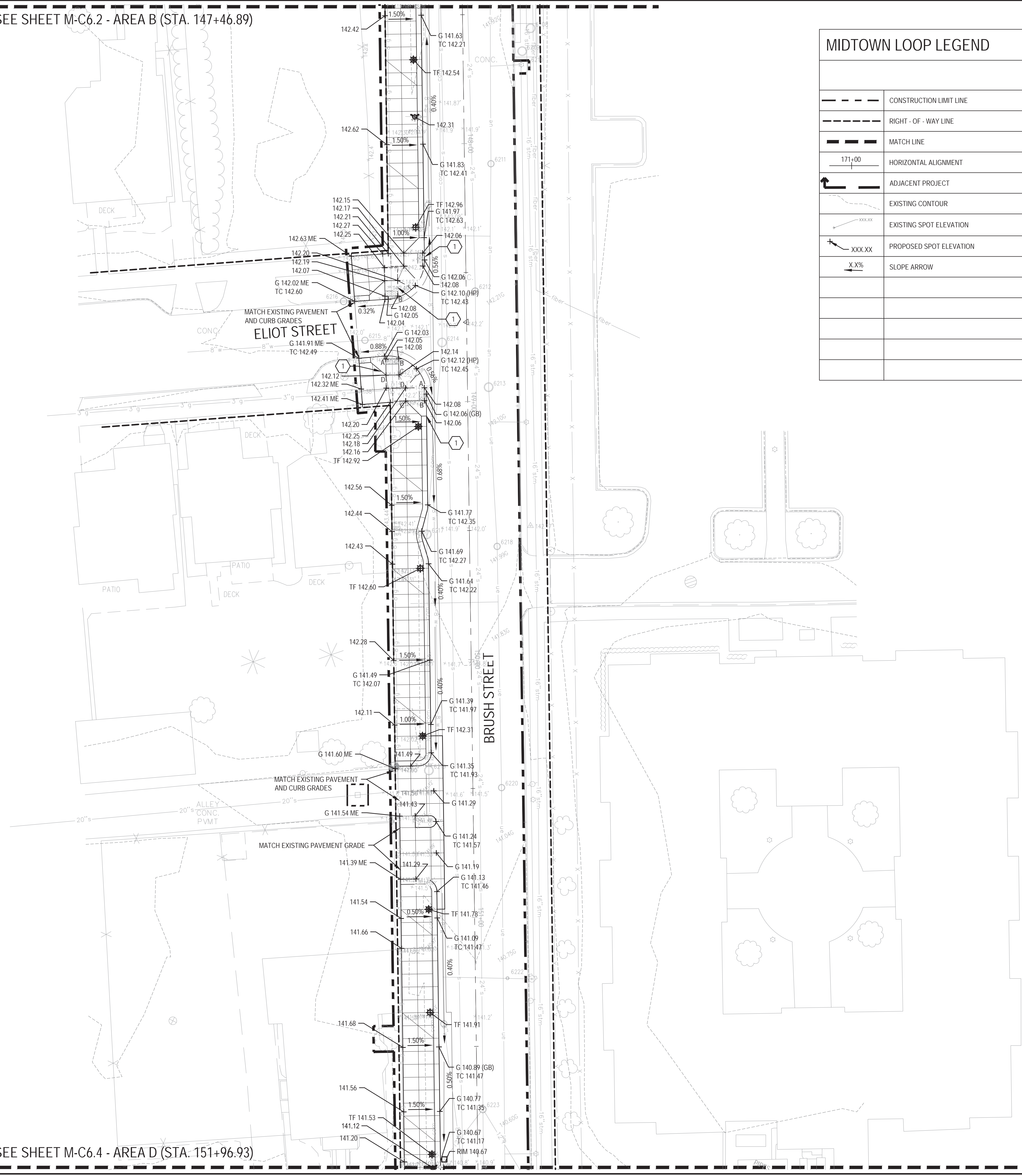
PROJECT NUMBER  
DRAWING NUMBER  
M-C6.3  
300 of 497



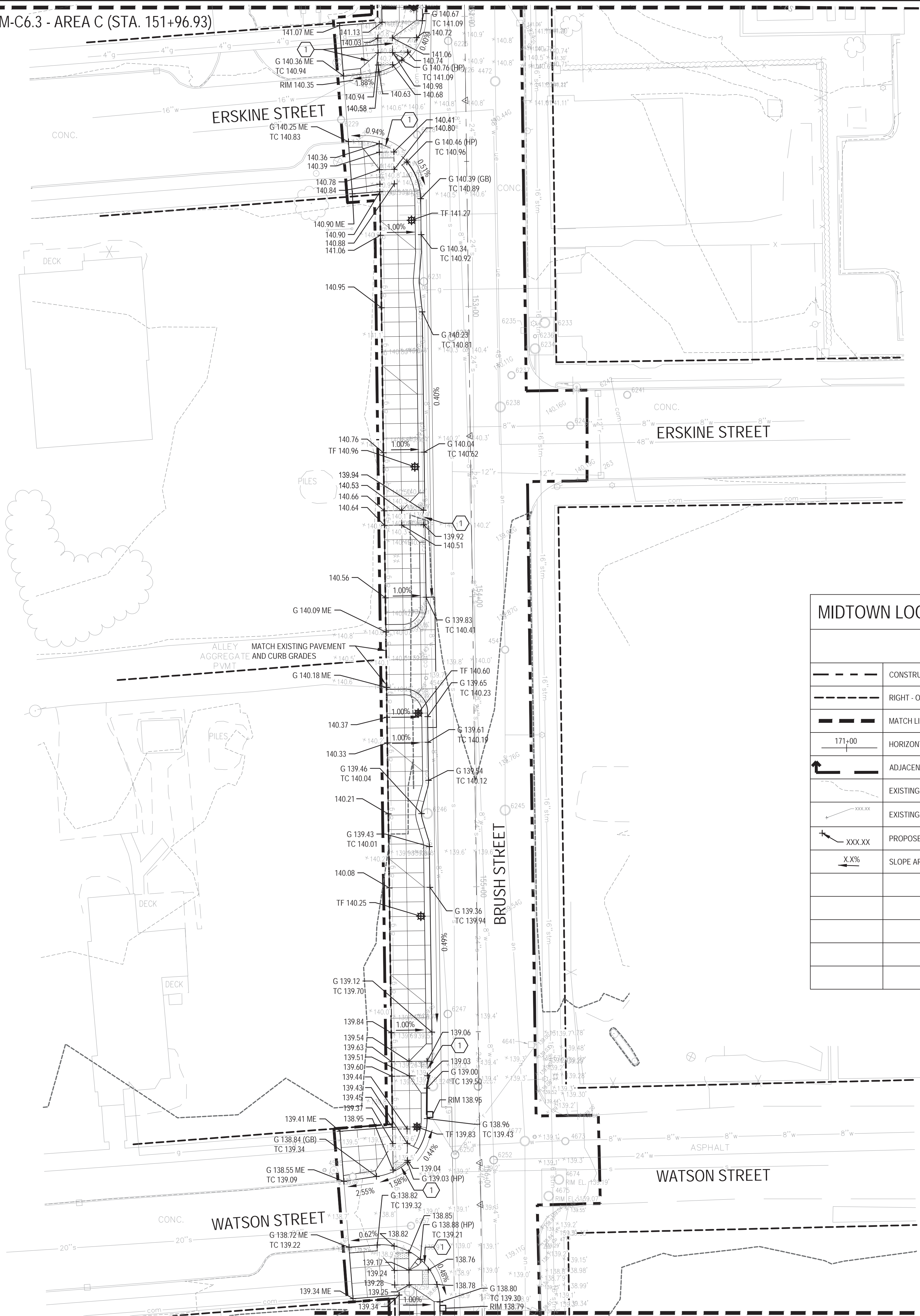
3 WORKING DAYS BEFORE YOU DIG  
CALL MISS DIG  
1-800-482-7171

FILE: P:\24708\003\Phase-IV\CAD\Sheet\24708-004-GRAD-SHI.dwg USER: jyoung DATE: May 21, 2013 TIME: 05:15 pm

SEE SHEET M-C6.4 - AREA D (STA. 151+96.93)



SEE SHEET M-C6.3 - AREA C (STA. 151+96.93)



MIDTOWN LOOP LEGEND			
GRADING PLAN			
	CONSTRUCTION LIMIT LINE	G XXX.XX	GUTTER
	RIGHT - OF - WAY LINE	TC XXX.XX	TOP OF CURB
	MATCH LINE	XXX.XX ME	MEET EXISTING
	HORIZONTAL ALIGNMENT	BW XXX.XX	BOTTOM OF WALL
	ADJACENT PROJECT	HP XXX.XX	HIGH POINT
	EXISTING CONTOUR	LP XXX.XX	LOW POINT
	EXISTING SPOT ELEVATION	GB	GRADE BREAK
	PROPOSED SPOT ELEVATION	TF XXX.XX	TOP OF FOUNDATION
	SLOPE ARROW	1	_SIDEWALK RAMP, ADA, MODIFIED (R-28-H)

REFER TO DRAWING G0.6 FOR GRADING NOTES.

M-C6.4 - GRADING		
QTY	UNIT	ITEM DESCRIPTION
3161	Sft	Sidewalk Grading
0	Cyd	Excavation, Earth

SEE SHEET M-C6.5 - AREA E (STA. 156+46.97)

# Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



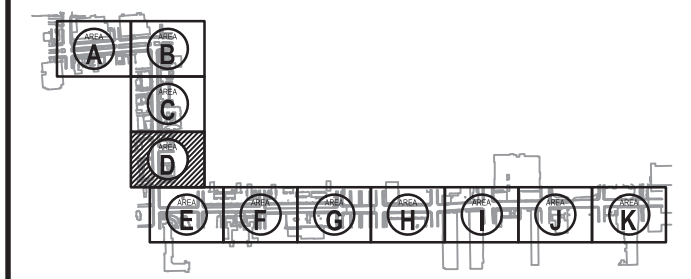
Midtown Detroit, Inc.

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ISSUED FOR	REV	DATE
BIDDING DOCUMENTS	5	MAY 21, 2013
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GRADE INSPECTION	2	JAN 30, 2013
80% CONSTRUCTION DOCUMENTS	1	JAN 07, 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05, 2012

SEALS AND SIGNATURES



### DRAWING TITLE

## GRADING PLAN - AREA D

GRAPHIC SCALE 1" = 20'-0"  
TAKES PRECEDENCE  
FULL SIZE SCALE (24x36)  
24708.003

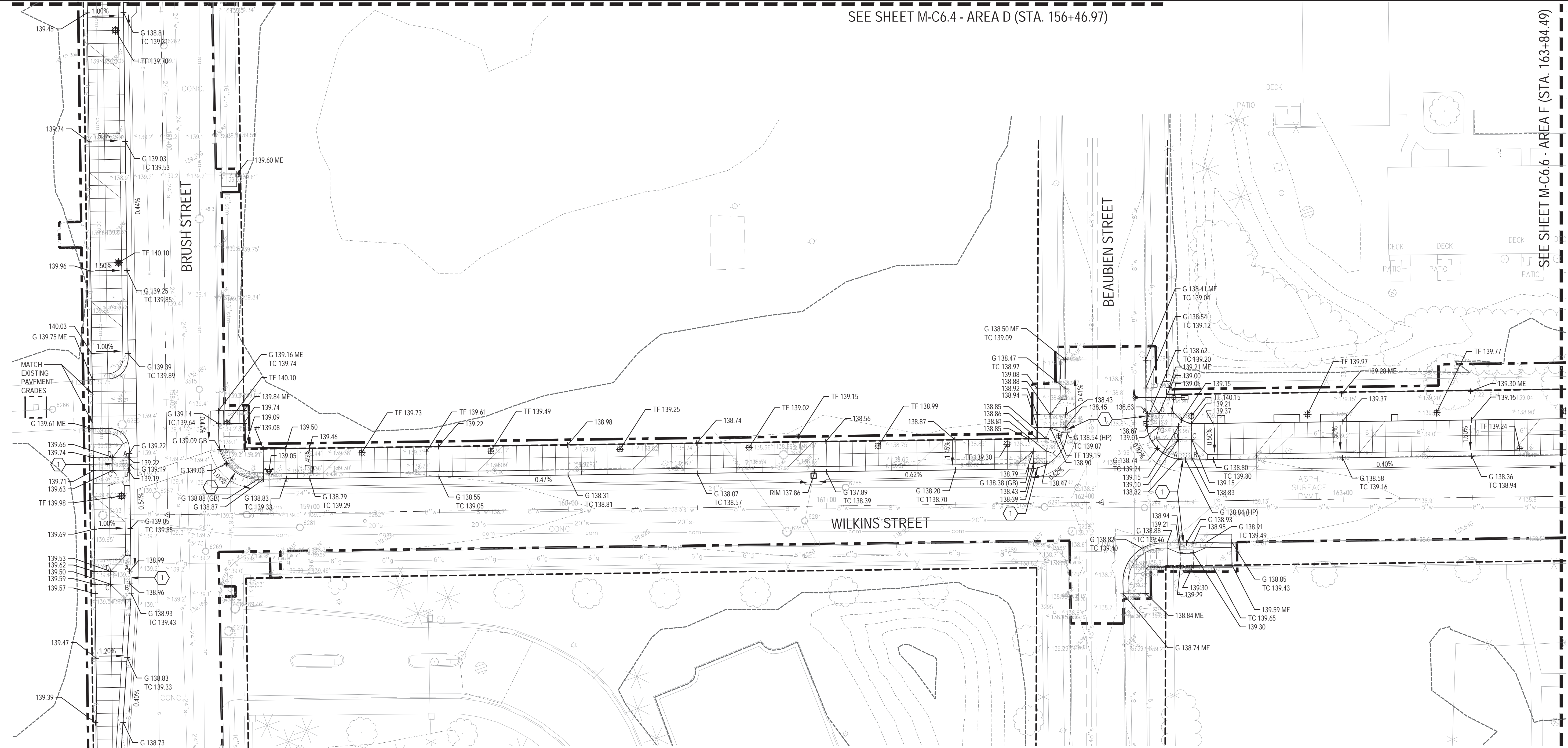
PROJECT NUMBER  
**M-C6.4**  
DRAWING NUMBER  
301 of 497



FILE: P:\24708\003\Phase-IV\CAD\Sheet\24708-004-GRAD-SHI.dwg USER: jyoung DATE: May 21, 2013 TIME: 05:15 pm

SEE SHEET M-C6.4 - AREA D (STA. 156+46.97)

SEE SHEET M-C6.6 - AREA F (STA. 163+84.49)



MIDTOWN LOOP LEGEND			
GRADING PLAN			
	CONSTRUCTION LIMIT LINE	G XXX.XX	GUTTER
	RIGHT - OF - WAY LINE	TC XXX.XX	TOP OF CURB
	MATCH LINE	XXX.XX ME	MEET EXISTING
	HORIZONTAL ALIGNMENT	BW XXX.XX	BOTTOM OF WALL
	ADJACENT PROJECT	HP XXX.XX	HIGH POINT
	EXISTING CONTOUR	LP XXX.XX	LOW POINT
	EXISTING SPOT ELEVATION	GB	GRADE BREAK
	PROPOSED SPOT ELEVATION	TF XXX.XX	TOP OF FOUNDATION
	SLOPE ARROW	①	_SIDEWALK RAMP, ADA, MODIFIED (R-28-H)

M-C6.5 - GRADING		
QTY	UNIT	ITEM DESCRIPTION
5182	Sft	Sidewalk Grading
0	Cyd	Excavation, Earth

# Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



Midtown Detroit, Inc.

## SMITHGROUP JJR

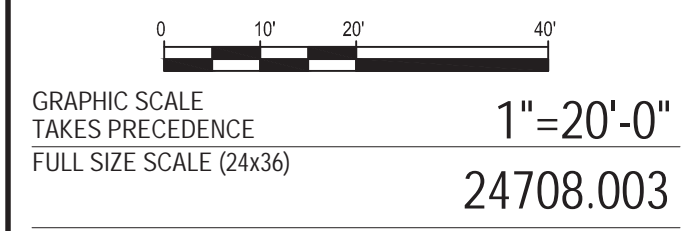
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80% CONSTRUCTION DOCUMENTS	1	JAN 07, 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05, 2012

SEALS AND SIGNATURES



### GRADING PLAN - AREA E

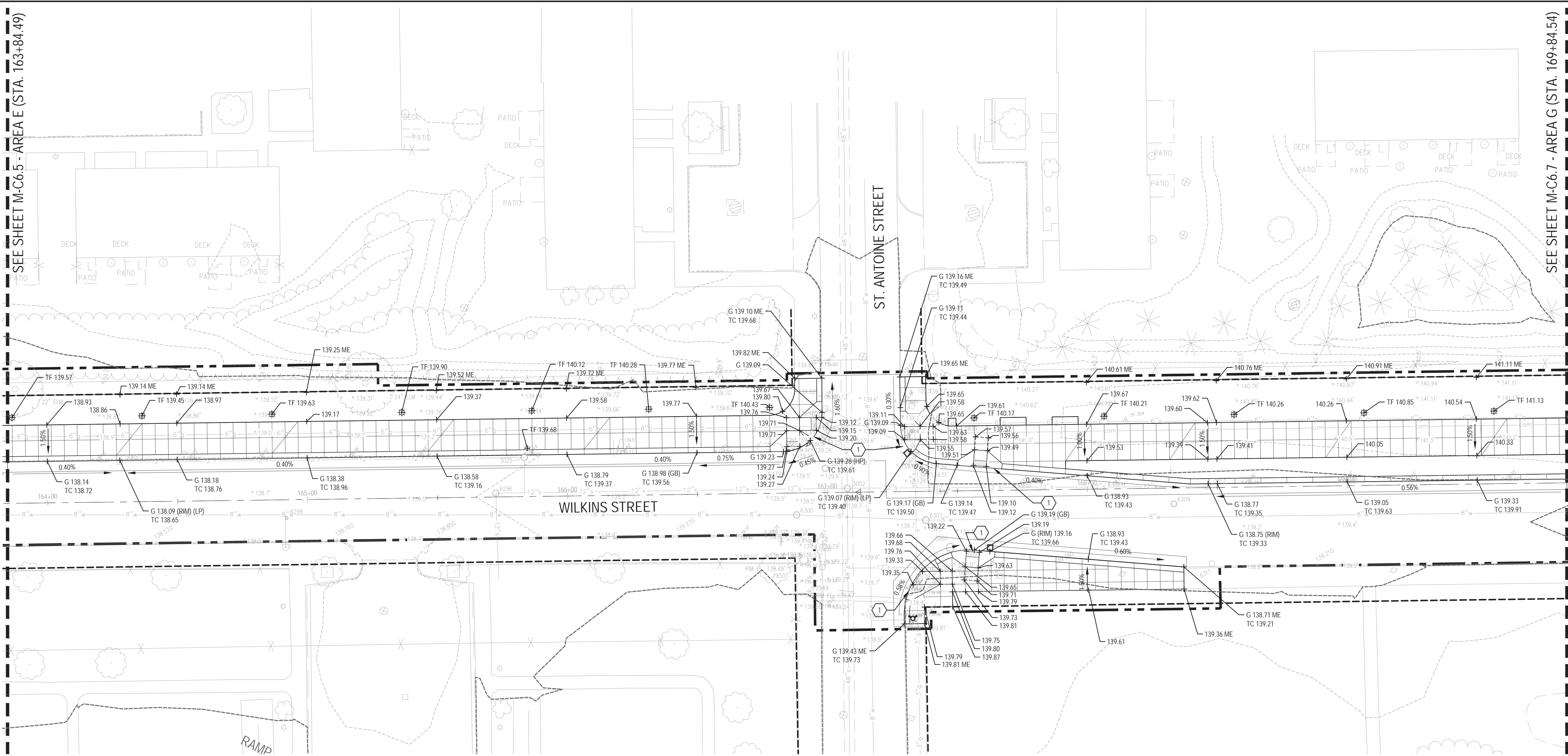


PROJECT NUMBER  
**M-C6.5**  
DRAWING NUMBER  
302 of 497



SEE SHEET M-C6.5 - AREA E (STA. 163+84.49)

SEE SHEET M-C6.7 - AREA G (STA. 169+84.54)



**M-C6.6 - GRADING**

QTY	UNIT	ITEM DESCRIPTION
5276	Sft	Sidewalk Grading
0	Cyd	Excavation, Earth

**MIDTOWN LOOP LEGEND**

GRADING PLAN		
	CONSTRUCTION LIMIT LINE	G XXX.XX GUTTER
	RIGHT - OF - WAY LINE	TC XXX.XX TOP OF CURB
	MATCH LINE	XXX.XX ME MEET EXISTING
	HORIZONTAL ALIGNMENT	BW XXX.XX BOTTOM OF WALL
	ADJACENT PROJECT	HP XXX.XX HIGH POINT
	EXISTING CONTOUR	LP XXX.XX LOW POINT
	EXISTING SPOT ELEVATION	GB GRADE BREAK
	PROPOSED SPOT ELEVATION	TF XXX.XX TOP OF FOUNDATION
	SLOPE ARROW	1 SIDEWALK RAMP, ADA, MODIFIED (R-28-H)

**Midtown Loop Phase IV**

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



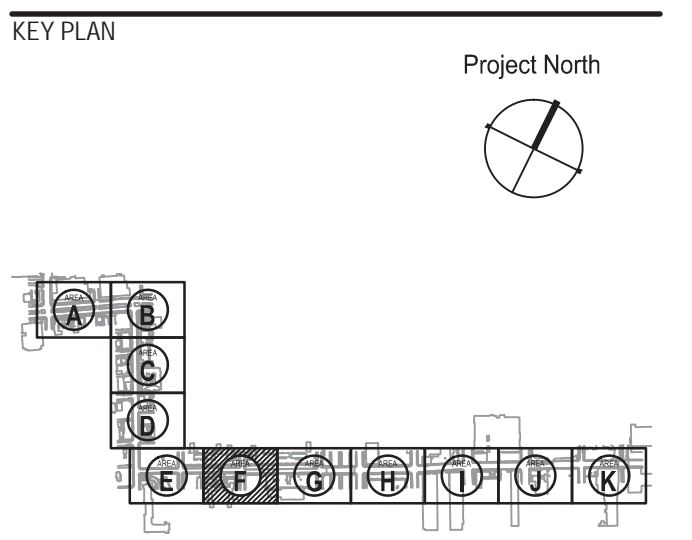
Midtown Detroit, Inc.

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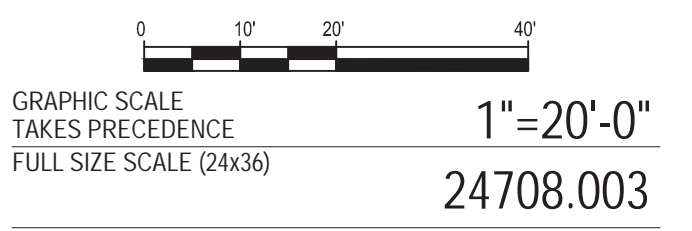
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80% CONSTRUCTION DOCUMENTS	1	JAN 07, 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05, 2012

SEALS AND SIGNATURES



DRAWING TITLE  
**GRADING PLAN - AREA F**



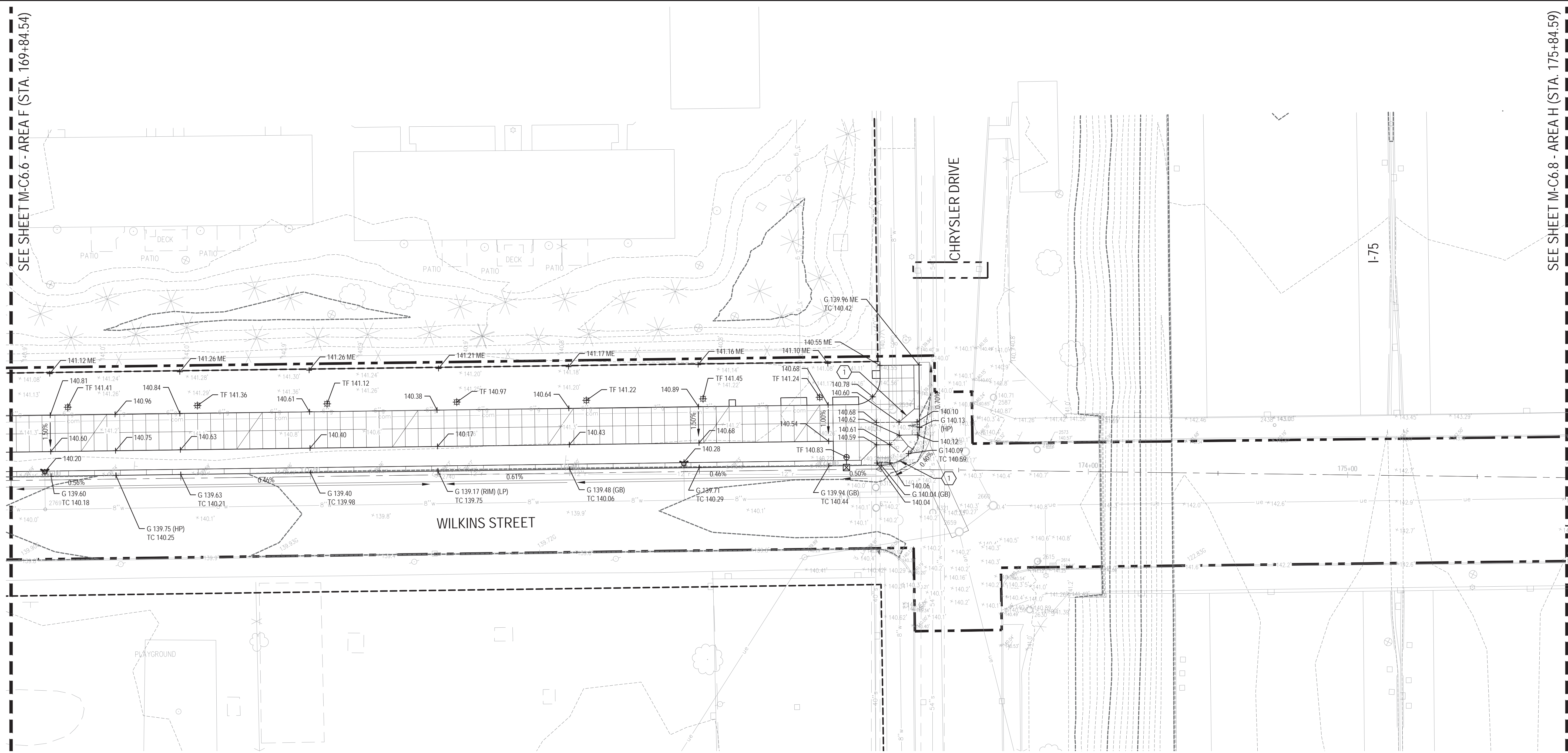
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**M-C6.6**  
DRAWING NUMBER  
303 of 497

REFER TO DRAWING G0.6 FOR GRADING NOTES.



SEE SHEET M-C6.6 - AREA F (STA. 169+84.54)

SEE SHEET M-C6.8 - AREA H (STA. 175+84.59)



M-C6.7 - GRADING		
QTY	UNIT	ITEM DESCRIPTION
3079	Sft	Sidewalk Grading
0	Cyd	Excavation, Earth

MIDTOWN LOOP LEGEND		
GRADING PLAN		
	CONSTRUCTION LIMIT LINE	G XXX.XX GUTTER
	RIGHT - OF - WAY LINE	TC XXX.XX TOP OF CURB
	MATCH LINE	XXX.XX ME MEET EXISTING
	HORIZONTAL ALIGNMENT	BW XXX.XX BOTTOM OF WALL
	ADJACENT PROJECT	HP XXX.XX HIGH POINT
	EXISTING CONTOUR	LP XXX.XX LOW POINT
	EXISTING SPOT ELEVATION	GB GRADE BREAK
	PROPOSED SPOT ELEVATION	TF XXX.XX TOP OF FOUNDATION
	SLOPE ARROW	① SIDEWALK RAMP, ADA, MODIFIED (R-28-H)

# Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



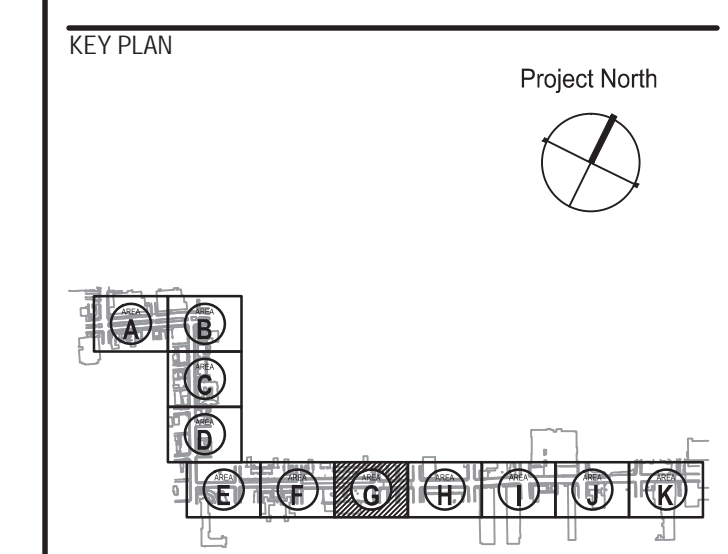
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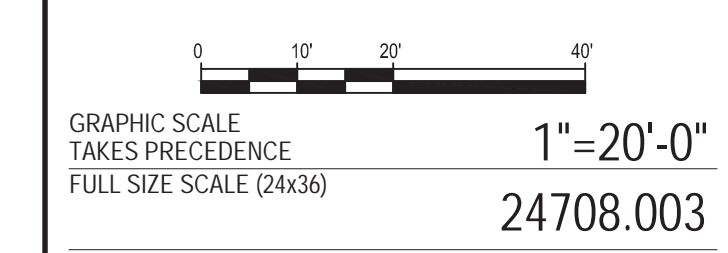
ISSUED FOR	REV	DATE
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80% CONSTRUCTION DOCUMENTS	1	JAN 07 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05 2012

SEALS AND SIGNATURES



### DRAWING TITLE

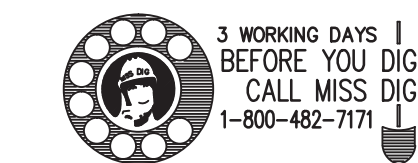
#### GRADING PLAN - AREA G



PROJECT NUMBER  
**M-C6.7**

DRAWING NUMBER  
304 of 497

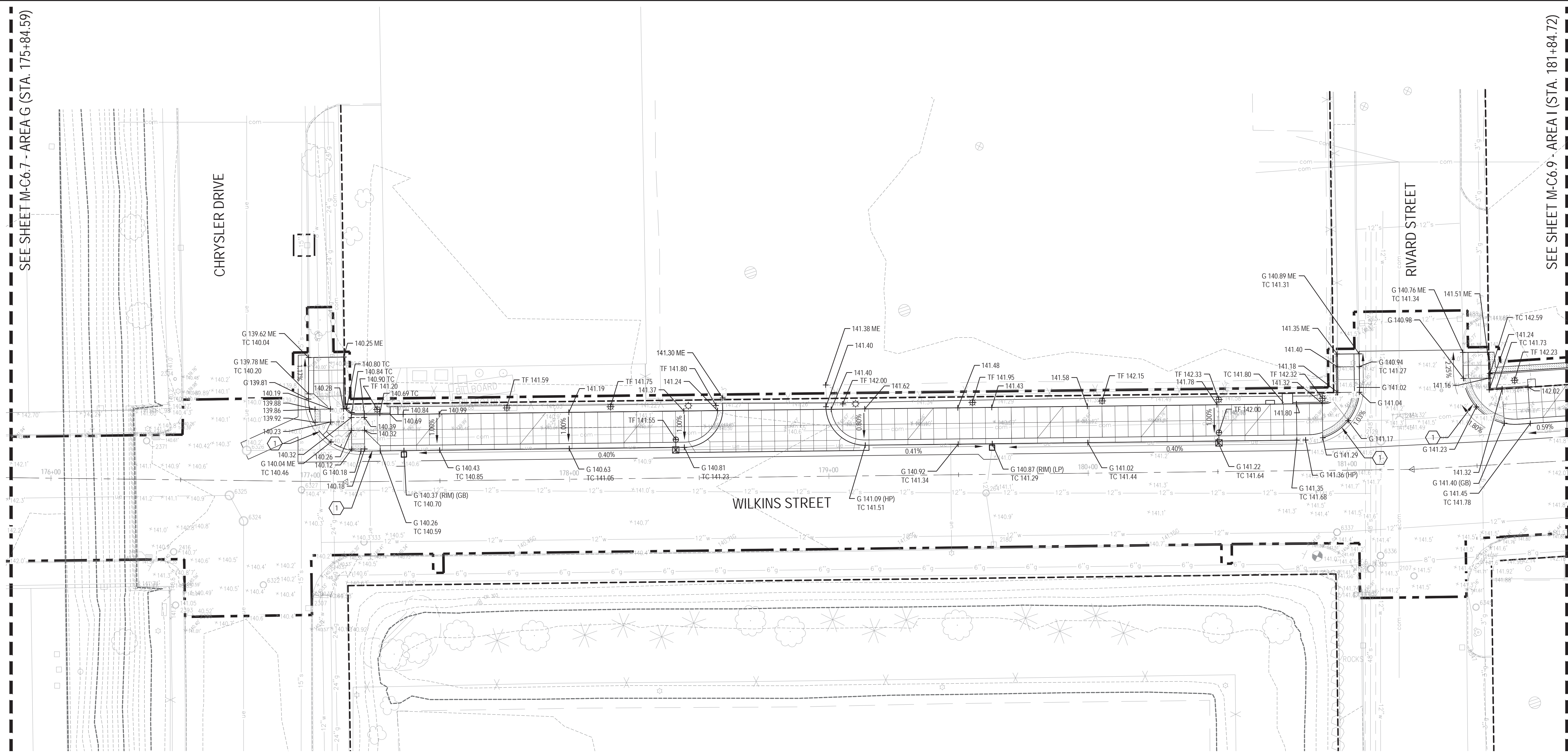
REFER TO DRAWING G0.6 FOR GRADING NOTES.





SEE SHEET M-C6.7 - AREA G (STA. 175+84.59)

SEE SHEET M-C6.9 - AREA I (STA. 181+84.72)



M-C6.8 - GRADING		
QTY	UNIT	ITEM DESCRIPTION
2355	Sft	Sidewalk Grading
0	Cyd	Excavation, Earth

MIDTOWN LOOP LEGEND			
GRADING PLAN			
	CONSTRUCTION LIMIT LINE	G XXX.XX	GUTTER
	RIGHT - OF - WAY LINE	TC XXX.XX	TOP OF CURB
	MATCH LINE	XXX.XX ME	MEET EXISTING
	HORIZONTAL ALIGNMENT	BW XXX.XX	BOTTOM OF WALL
	ADJACENT PROJECT	HP XXX.XX	HIGH POINT
	EXISTING CONTOUR	LP XXX.XX	LOW POINT
	EXISTING SPOT ELEVATION	GB	GRADE BREAK
	PROPOSED SPOT ELEVATION	TF XXX.XX	TOP OF FOUNDATION
	SLOPE ARROW	①	_SIDEWALK RAMP, ADA, MODIFIED (R-28-H)

# Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



Midtown Detroit, Inc.

## SMITHGROUP JJR

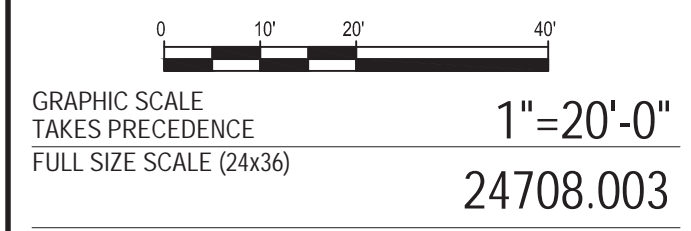
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50% CONSTRUCTION DOCUMENTS	0	NOV 05, 2012

SEALS AND SIGNATURES



### GRADING PLAN - AREA H



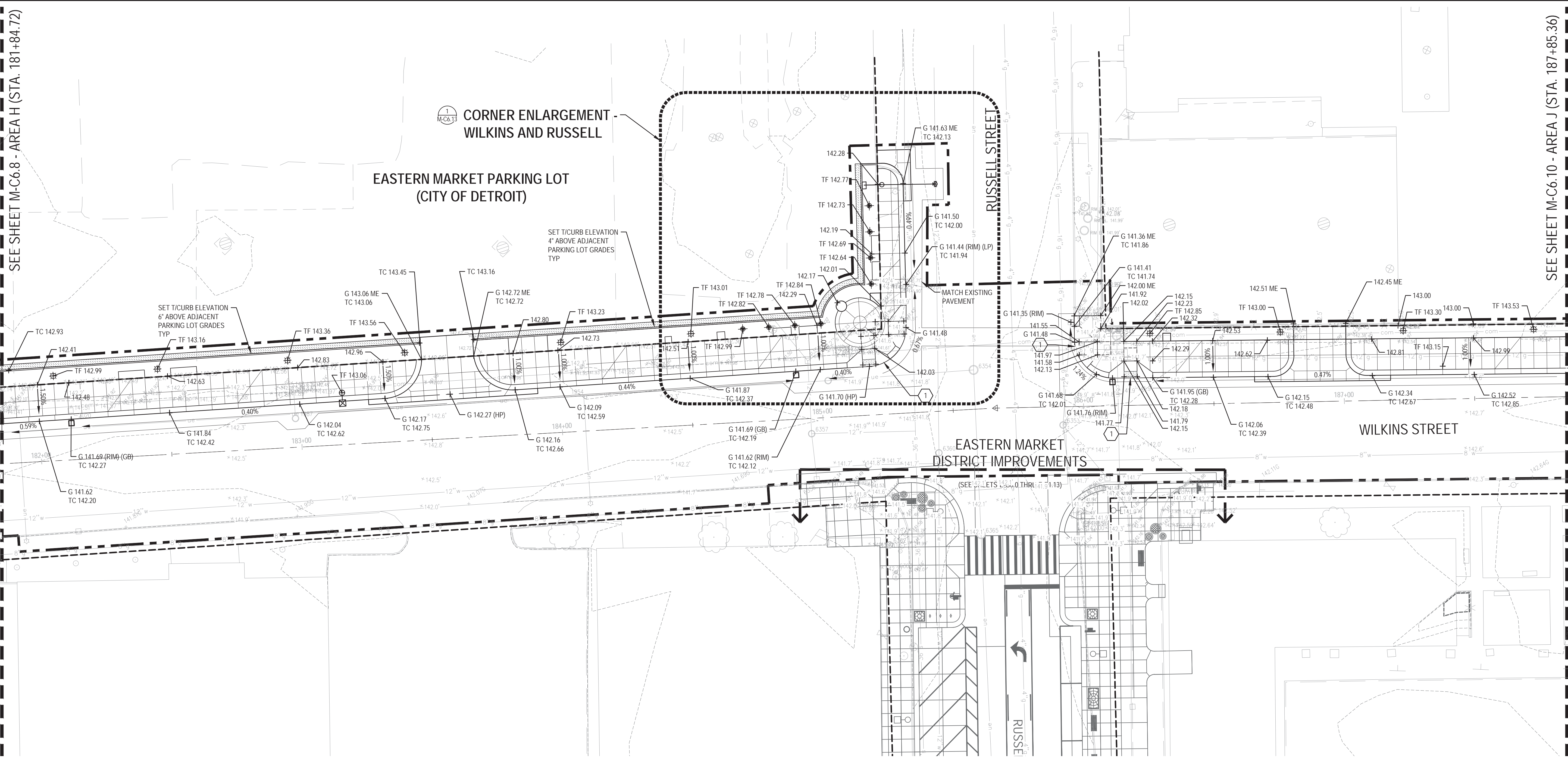
PROJECT NUMBER  
**M-C6.8**  
DRAWING NUMBER  
305 of 497

REFER TO DRAWING G0.6 FOR GRADING NOTES.



SEE SHEET M-C6.8 - AREA H (STA. 181+84.72)

SEE SHEET M-C6.10 - AREA J (STA. 187+85.36)



**CORNER ENLARGEMENT  
WILKINS AND RUSSELL**

**EASTERN MARKET PARKING LOT  
(CITY OF DETROIT)**

**EASTERN MARKET  
DISTRICT IMPROVEMENTS**

**WILKINS STREET**

**RUSSELL STREET**

**M-C6.9 - GRADING**

QTY	UNIT	ITEM DESCRIPTION
3101	Sft	Sidewalk Grading
0	Cyd	Excavation, Earth

**MIDTOWN LOOP LEGEND**

GRADING PLAN			
	CONSTRUCTION LIMIT LINE	G XXX.XX	GUTTER
	RIGHT - OF - WAY LINE	TC XXX.XX	TOP OF CURB
	MATCH LINE	XXX.XX ME	MEET EXISTING
	HORIZONTAL ALIGNMENT	BW XXX.XX	BOTTOM OF WALL
	ADJACENT PROJECT	HP XXX.XX	HIGH POINT
	EXISTING CONTOUR	LP XXX.XX	LOW POINT
	EXISTING SPOT ELEVATION	GB	GRADE BREAK
	PROPOSED SPOT ELEVATION	TF XXX.XX	TOP OF FOUNDATION
	SLOPE ARROW		_SIDEWALK RAMP, ADA, MODIFIED (R-28-H)

**Midtown Loop  
Phase IV**

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



Midtown Detroit, Inc.

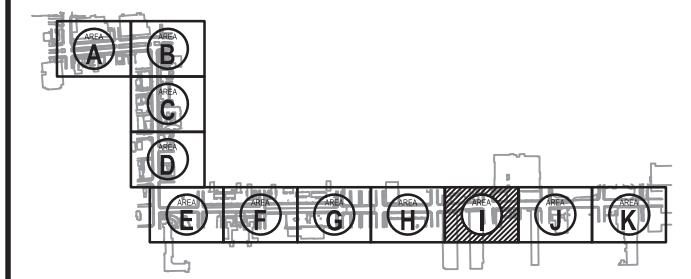
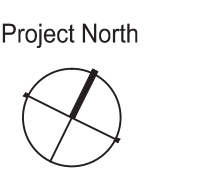
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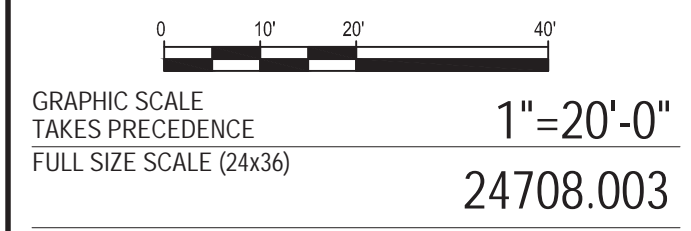
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80% CONSTRUCTION DOCUMENTS	1	JAN 07, 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05, 2012

SEALS AND SIGNATURES

KEY PLAN



DRAWING TITLE  
**GRADING PLAN - AREA I**



PROJECT NUMBER

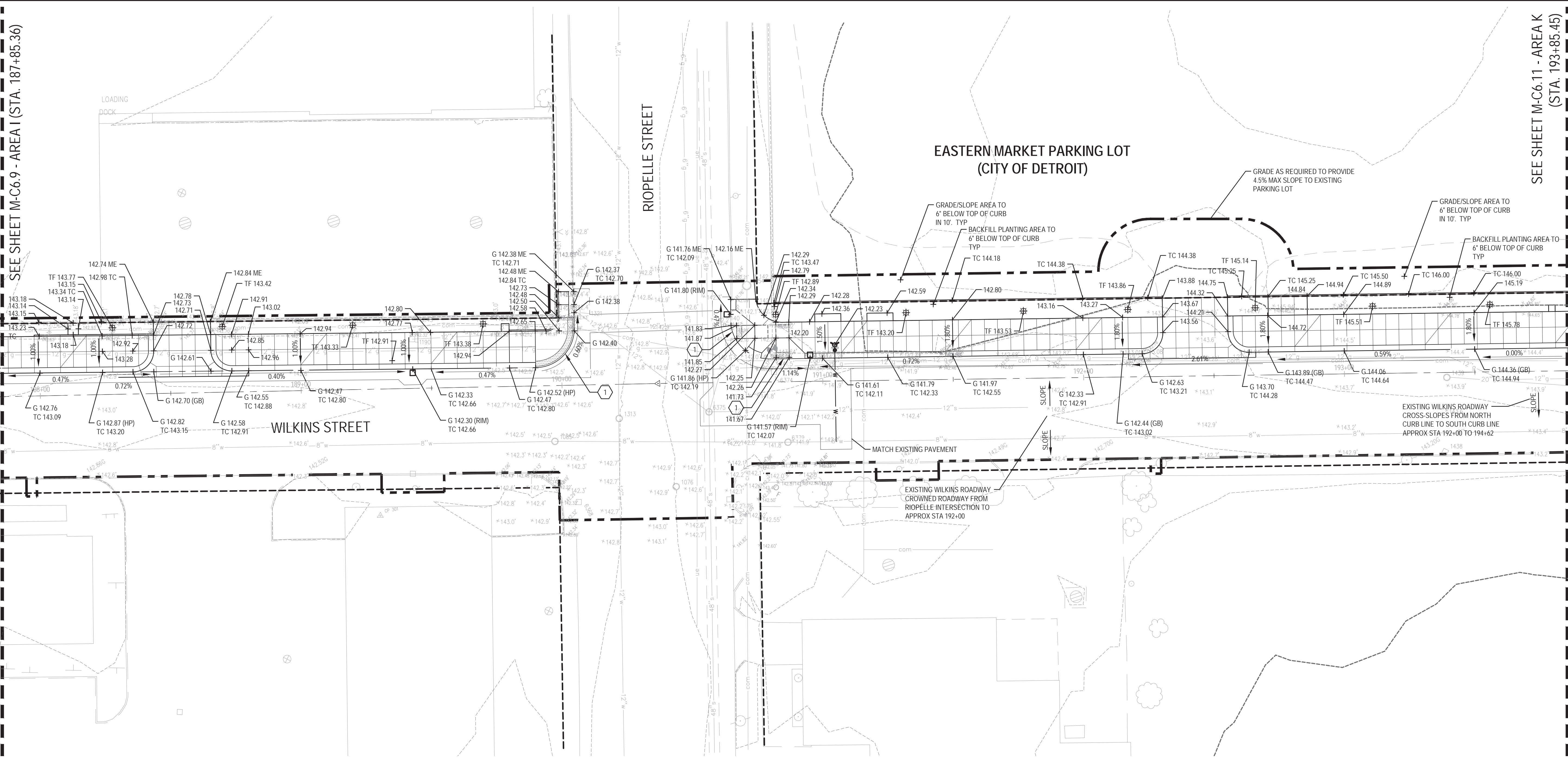
DRAWING NUMBER  
**M-C6.9**



REFER TO DRAWING G0.6 FOR GRADING NOTES.

SEE SHEET M-C6.9 - AREA I (STA. 187+85.36)

SEE SHEET M-C6.11 - AREA K (STA. 193+85.45)



# Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



Midtown Detroit, Inc.

## SMITHGROUP JJR

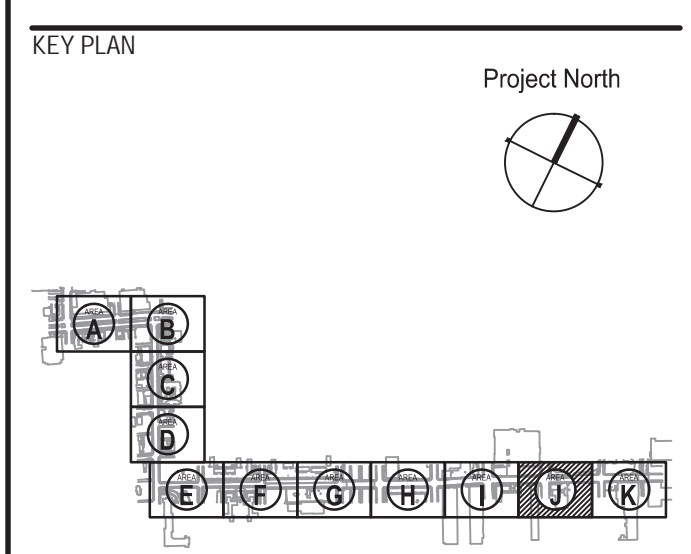
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SEALS AND SIGNATURES

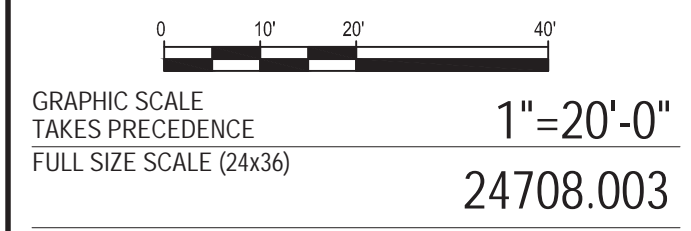
M-C6.10 - GRADING		
QTY	UNIT	ITEM DESCRIPTION
2847	Sft	Sidewalk Grading
149	Cyd	Excavation, Earth

MIDTOWN LOOP LEGEND			
GRADING PLAN			
	CONSTRUCTION LIMIT LINE	G XXX.XX	GUTTER
	RIGHT - OF - WAY LINE	TC XXX.XX	TOP OF CURB
	MATCH LINE	XXX.XX ME	MEET EXISTING
	HORIZONTAL ALIGNMENT	BW XXX.XX	BOTTOM OF WALL
	ADJACENT PROJECT	HP XXX.XX	HIGH POINT
	EXISTING CONTOUR	LP XXX.XX	LOW POINT
	EXISTING SPOT ELEVATION	GB	GRADE BREAK
	PROPOSED SPOT ELEVATION	TF XXX.XX	TOP OF FOUNDATION
	SLOPE ARROW	1	_SIDEWALK RAMP, ADA, MODIFIED (R-28-H)



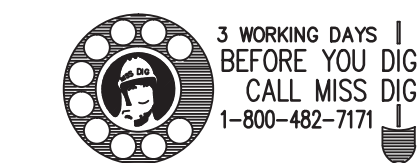
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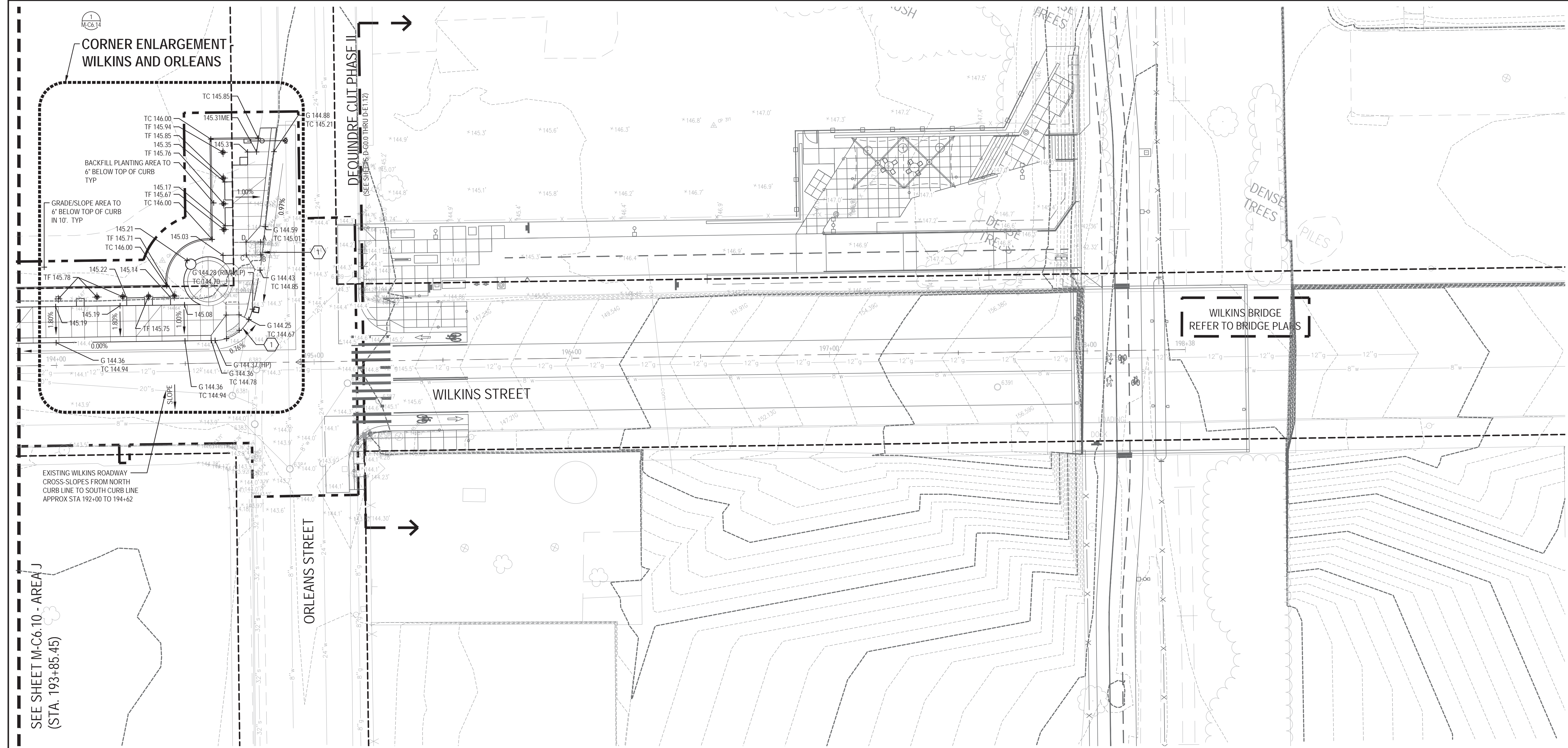
GRADING PLAN - AREA J



PROJECT NUMBER  
**M-C6.10**  
DRAWING NUMBER  
307 of 497

REFER TO DRAWING G0.6 FOR GRADING NOTES.





SEE SHEET M-C6.10 - AREA J  
(STA. 193+85.45)

M-C6.11 - GRADING			
QTY	UNIT	ITEM DESCRIPTION	
1432	Sft	Sidewalk Grading	
29	Cyd	Excavation, Earth	

MIDTOWN LOOP LEGEND			
GRADING PLAN			
	CONSTRUCTION LIMIT LINE	G XXX.XX	GUTTER
	RIGHT - OF - WAY LINE	TC XXX.XX	TOP OF CURB
	MATCH LINE	XXX.XX ME	MEET EXISTING
	HORIZONTAL ALIGNMENT	BW XXX.XX	BOTTOM OF WALL
	ADJACENT PROJECT	HP XXX.XX	HIGH POINT
	EXISTING CONTOUR	LP XXX.XX	LOW POINT
	EXISTING SPOT ELEVATION	GB	GRADE BREAK
	PROPOSED SPOT ELEVATION	TF XXX.XX	TOP OF FOUNDATION
	SLOPE ARROW	①	_SIDEWALK RAMP, ADA, MODIFIED (R-28+H)

REFER TO DRAWING G0.6 FOR GRADING NOTES.

### Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



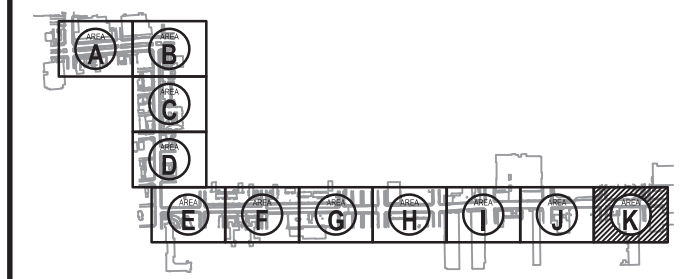
Midtown Detroit, Inc.

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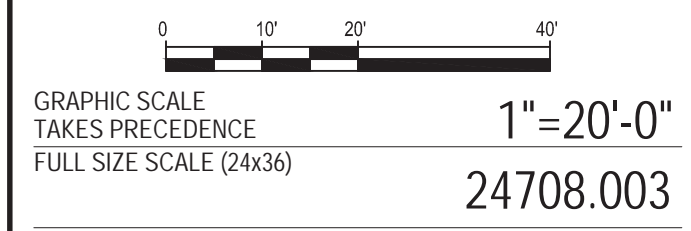
201 DEPOT STREET  
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734.662.4457  
www.smithgroupjjr.com

ISSUED FOR	REV	DATE
BIDDING DOCUMENTS	5	MAY 21, 2013
BIDDING DOCUMENTS	4	MAY 02, 2013
100% CONSTRUCTION DOCUMENTS	3	APR 01, 2013
GRADE INSPECTION	2	JAN 30, 2013
80% CONSTRUCTION DOCUMENTS	1	JAN 07, 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05, 2012

SEALS AND SIGNATURES

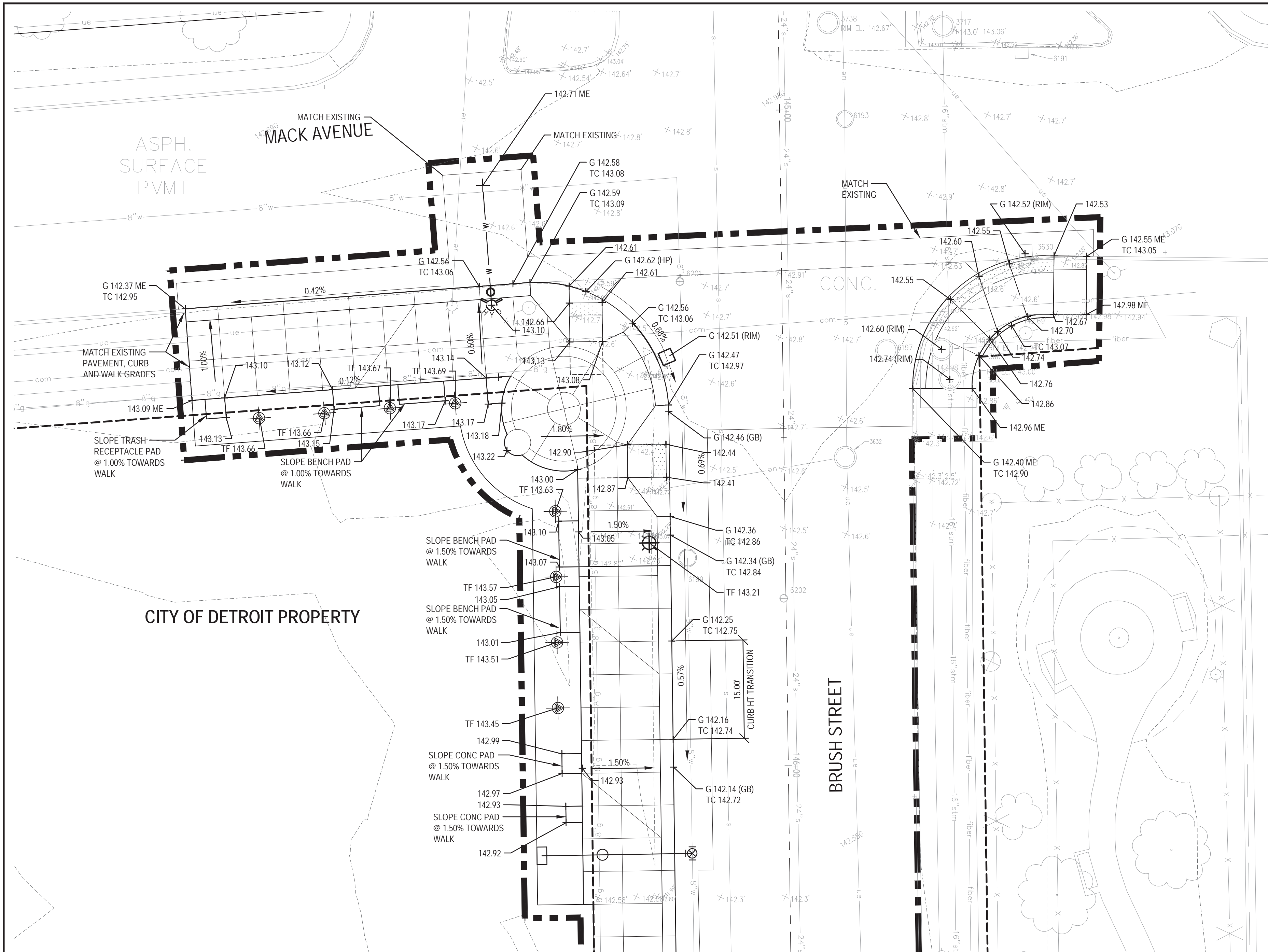


### DRAWING TITLE GRADING PLAN - AREA K



PROJECT NUMBER  
**M-C6.11**  
DRAWING NUMBER  
308 of 497





MIDTOWN LOOP LEGEND			
GRADING PLAN			
	CONSTRUCTION LIMIT LINE	G XXX.XX	GUTTER
	RIGHT - OF - WAY LINE	TC XXX.XX	TOP OF CURB
	MATCH LINE	XXX.XX ME	MEET EXISTING
	HORIZONTAL ALIGNMENT	BW XXX.XX	BOTTOM OF WALL
	ADJACENT PROJECT	HP XXX.XX	HIGH POINT
	EXISTING CONTOUR	LP XXX.XX	LOW POINT
	EXISTING SPOT ELEVATION	GB	GRADE BREAK
	PROPOSED SPOT ELEVATION	TF XXX.XX	TOP OF FOUNDATION
	SLOPE ARROW		SIDEWALK RAMP, ADA, MODIFIED (R-28-H)

REFER TO DRAWING G0.6 FOR GRADING NOTES.

# Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



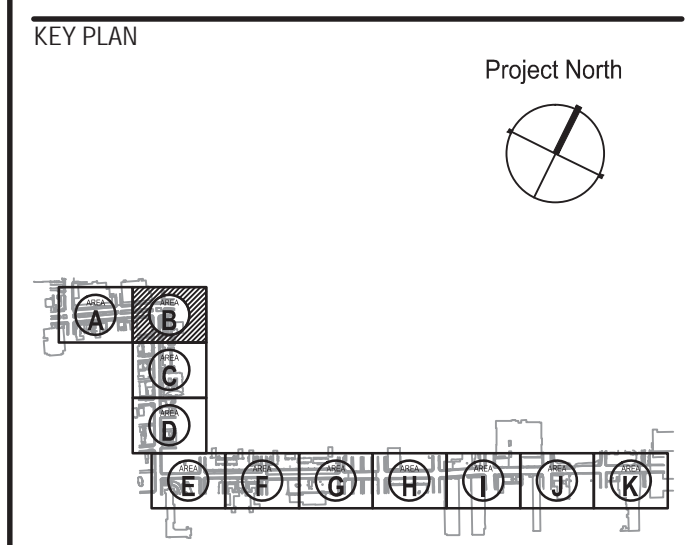
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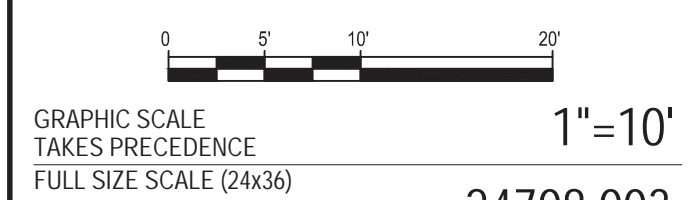
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734.662.4457  
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50% CONSTRUCTION DOCUMENTS	0	NOV 05, 2012

SEALS AND SIGNATURES



DRAWING TITLE  
**CORNER ENLARGEMENT - MACK AND BRUSH**



PROJECT NUMBER  
**M-C6.12**

DRAWING NUMBER  
309 of 497



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**1 CORNER ENLARGEMENT - MACK AND BRUSH**  
PLAN

1"=10'

# Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



Midtown Detroit, Inc.

## SMITHGROUP JJR

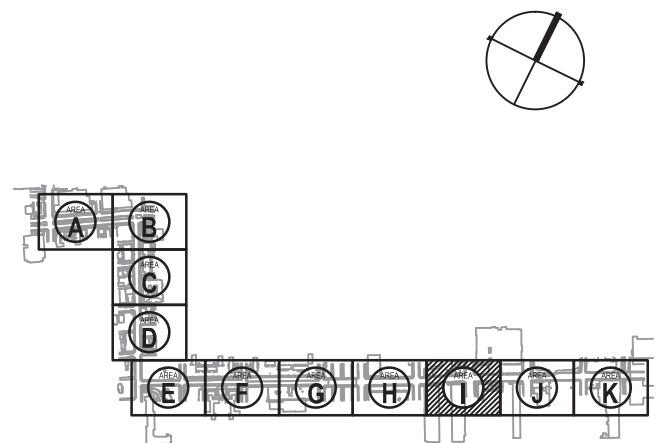
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ISSUED FOR	REV	DATE
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100% CONSTRUCTION DOCUMENTS	3	APR 01, 2013
GRADE INSPECTION	2	JAN 30, 2013
80% CONSTRUCTION DOCUMENTS	1	JAN 07, 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05, 2012

SEALS AND SIGNATURES

KEY PLAN

Project North



DRAWING TITLE  
**CORNER ENLARGEMENT  
- WILKINS AND RUSSELL**

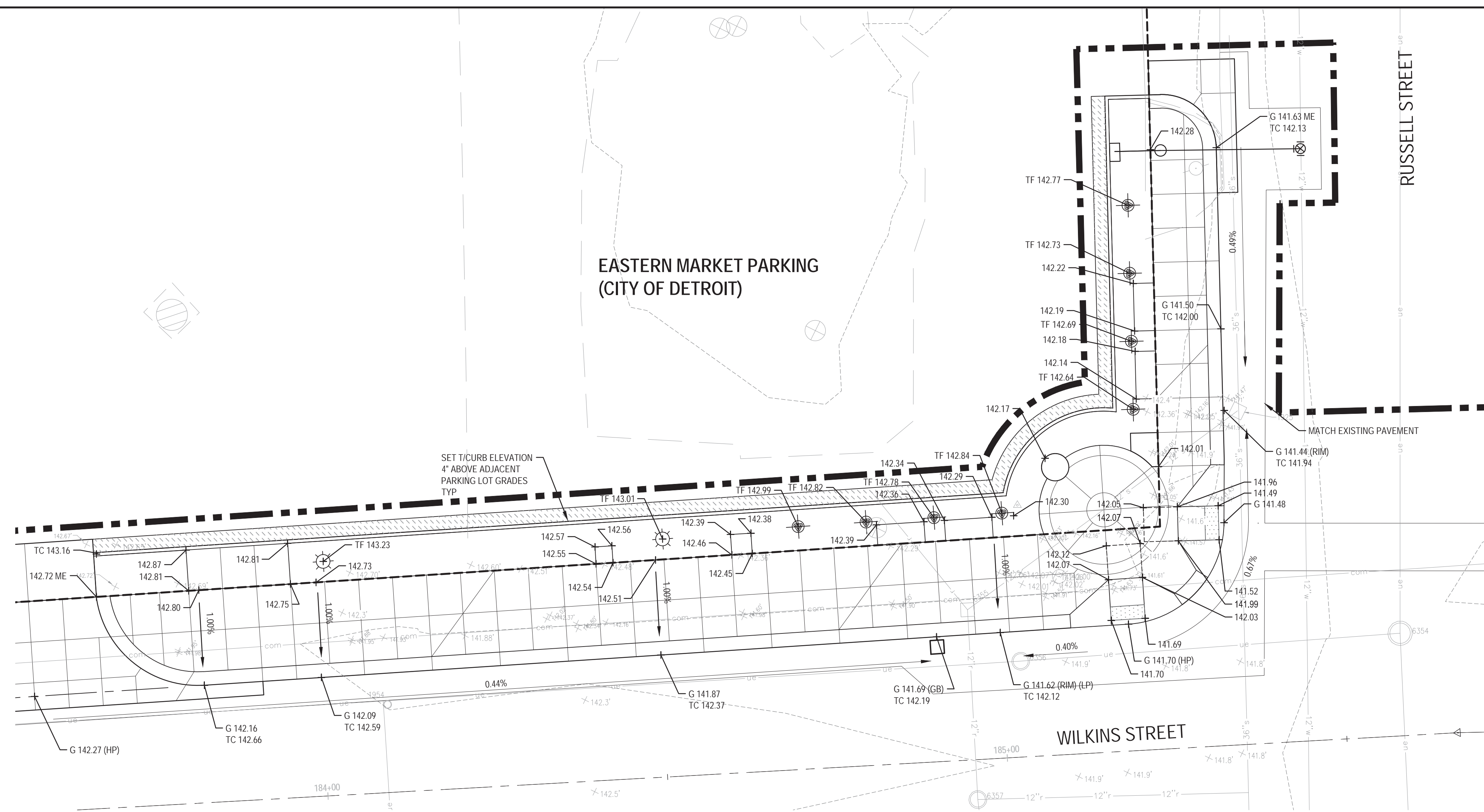
GRAPHIC SCALE  
TAKES PRECEDENCE  
FULL SIZE SCALE (24x36)  
1" = 10'  
24708.003

PROJECT NUMBER

**M-C6.13**

DRAWING NUMBER

310 of 497



**1 CORNER ENLARGEMENT - WILKINS AND RUSSELL**  
PLAN

1"=10'

MIDTOWN LOOP LEGEND			
GRADING PLAN			
	CONSTRUCTION LIMIT LINE	G XXX.XX	GUTTER
	RIGHT - OF - WAY LINE	TC XXX.XX	TOP OF CURB
	MATCH LINE	XXX.XX ME	MEET EXISTING
	HORIZONTAL ALIGNMENT	BW XXX.XX	BOTTOM OF WALL
	ADJACENT PROJECT	HP XXX.XX	HIGH POINT
	EXISTING CONTOUR	LP XXX.XX	LOW POINT
	EXISTING SPOT ELEVATION	GB	GRADE BREAK
	PROPOSED SPOT ELEVATION	TF XXX.XX	TOP OF FOUNDATION
	SLOPE ARROW		_SIDEWALK RAMP, ADA, MODIFIED (R-28-H)

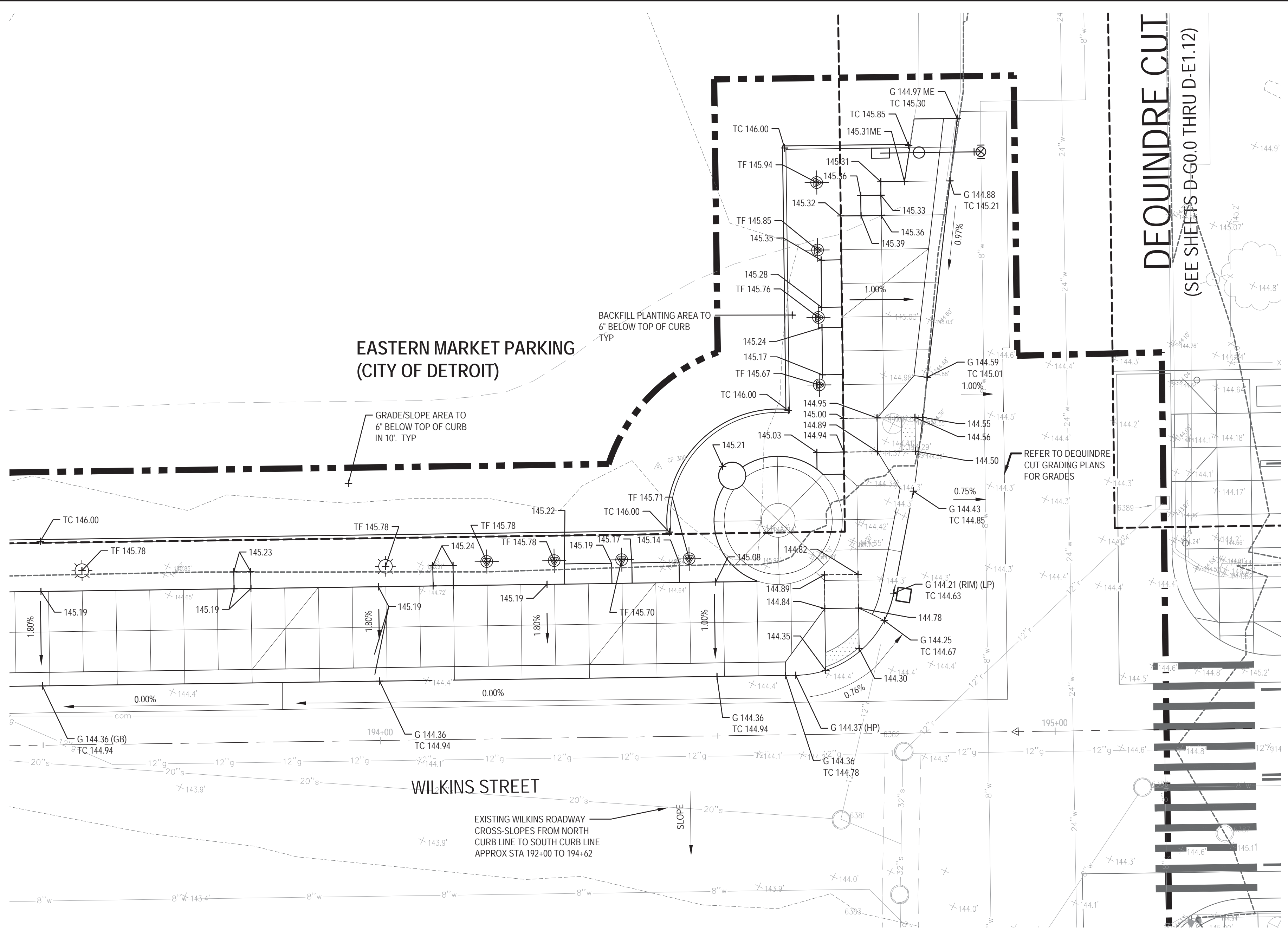
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MIDTOWN LOOP LEGEND			
GRADING PLAN			
	CONSTRUCTION LIMIT LINE	G XXX.XX	GUTTER
	RIGHT - OF - WAY LINE	TC XXX.XX	TOP OF CURB
	MATCH LINE	XXX.XX ME	MEET EXISTING
	HORIZONTAL ALIGNMENT	BW XXX.XX	BOTTOM OF WALL
	ADJACENT PROJECT	HP XXX.XX	HIGH POINT
	EXISTING CONTOUR	LP XXX.XX	LOW POINT
	EXISTING SPOT ELEVATION	GB	GRADE BREAK
	PROPOSED SPOT ELEVATION	TF XXX.XX	TOP OF FOUNDATION
	SLOPE ARROW		SIDWALK RAMP, ADA, MODIFIED (R-28-H)

REFER TO DRAWING G0.6 FOR GRADING NOTES.

**1 CORNER ENLARGEMENT - WILKINS AND ORLEANS**  
PLAN 1"=10'

# Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



Owners:  
  
City of Detroit



Midtown Detroit, Inc.

## SMITHGROUP JJR

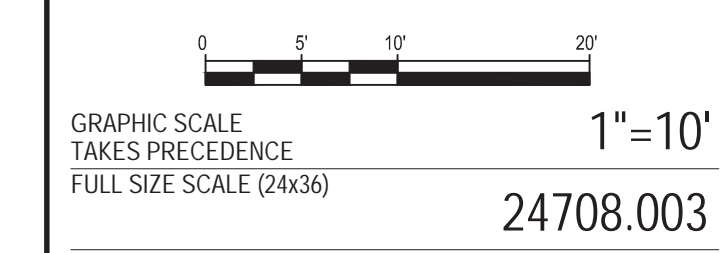
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ANN ARBOR, MI 48104  
734.662.4457  
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50% CONSTRUCTION DOCUMENTS	0	NOV 05, 2012

SEALS AND SIGNATURES



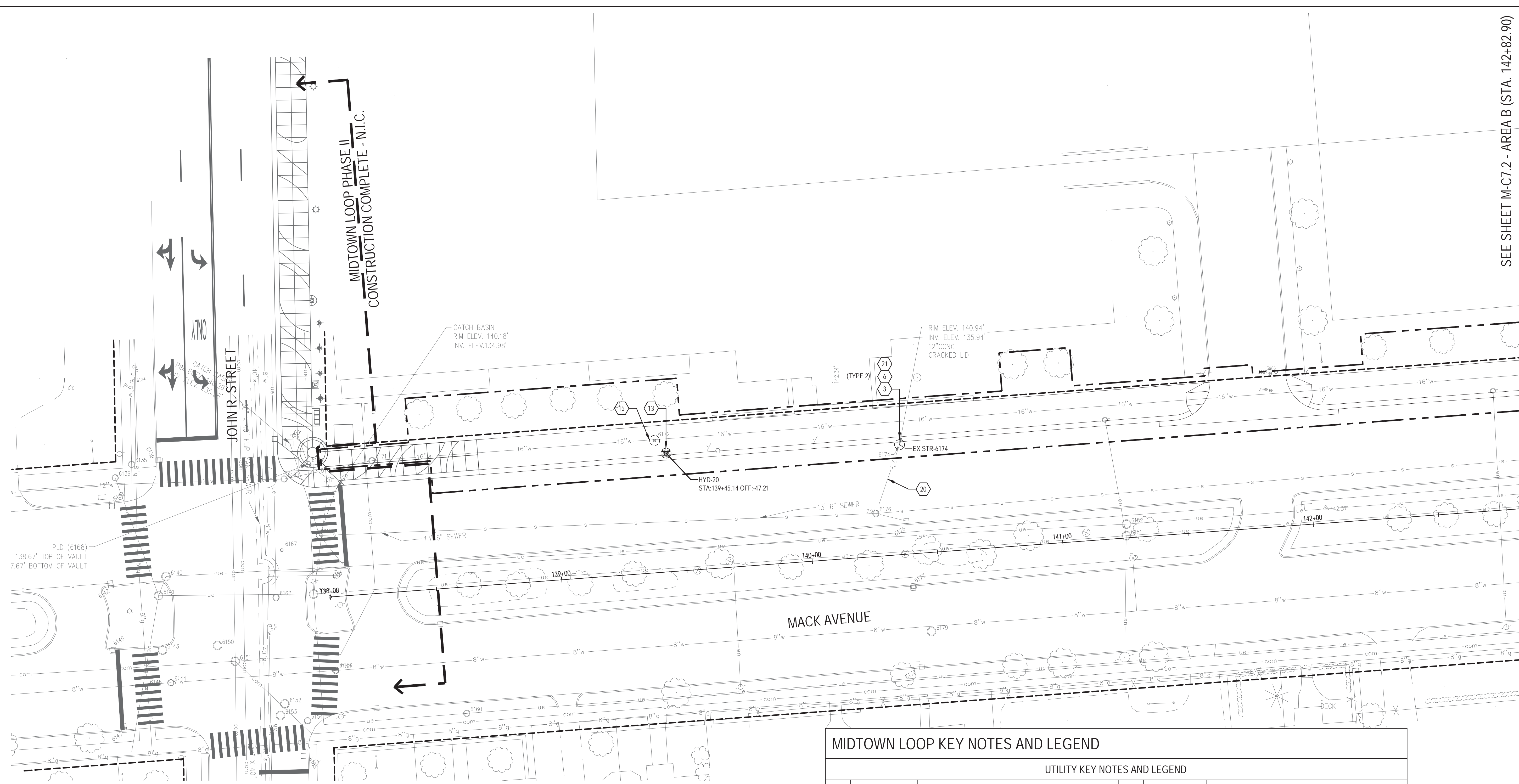
DRAWING TITLE  
**CORNER ENLARGEMENT - WILKINS AND ORLEANS**



PROJECT NUMBER  
**M-C6.14**  
DRAWING NUMBER  
311 of 497



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SEE SHEET M-C7.2 - AREA B (STA. 142+82.90)

MIDTOWN LOOP PHASE II  
CONSTRUCTION COMPLETE - N.I.C.

JOHN R STREET

MACK AVENUE

M-C7.1 - UTILITY		
QTY	UNIT	ITEM DESCRIPTION
0	Ft	Sewer, Rem, Less than 24 inch
0	Ea	Dr Structure, Rem
1	Ea	Dr Structure Cover, Adj, Case 1, Modified
0	Ea	Dr Structure Cover, Type 1, Modified
1	Ea	Dr Structure Cover, Type 2, Modified
0	Ea	Dr Structure Cover, Type 4, Modified
0	Ea	Structure Cover, Elec, Adj
0	Ft	Sewer, Cl A, 12 inch, Tr Det B, Modified
0	Ea	Dr Structure, Tap, 1 1/2 inch
0	Ea	Dr Structure, Tap, 12 inch
0	Ea	Sewer Tap, Modified
0	Ea	Dr Structure, 24 inch dia
0	Ea	Dr Structure, 48 inch dia
30	Ft	Dr Structure Lead, Cleaning, 12 inch
1	Ea	Dr Structure, Cleaning
0	Ea	Sewer Cleanout, Cover, Adj
1	Ea	Hydrant, Relocate, Case 1, Modified
0	Ea	Hydrant, Relocate, Case 2, Modified
1	Ea	Water Shutoff, Adj, Modified
0	Ft	Water Main, Di, 6 inch, Tr Det G
0	Ea	Water Serv, Tap
0	Ft	Water Line, 1 inch, Type K, Copper
0	Ft	Drainline, 1 1/2 inch, Sch 40 PVC
0	Ea	Erosion Control, Inlet Protection, Fabric Drop

NOTE:  
1. REFER TO DRAWING G0.6 FOR UTILITY NOTES.  
2. LIGHT POLE, FOUNDATION REMOVALS AND UTILITY POLE RELOCATIONS SHOWN ON THESE PLANS ARE FOR REFERENCE ONLY. REFER TO ELECTRICAL PLANS FOR SPECIFIC REMOVALS AND PAY ITEM QUANTITIES.

MIDTOWN LOOP KEY NOTES AND LEGEND

UTILITY KEY NOTES AND LEGEND			
---	CONSTRUCTION LIMIT LINE	13	HYDRANT, RELOCATE, CASE 1, MODIFIED
---	RIGHT-OF-WAY LINE	14	HYDRANT, RELOCATE, CASE 2, MODIFIED
---	MATCH LINE	15	WATER SHUTOFF, ADJ, MODIFIED
---	HORIZONTAL ALIGNMENT	16	TEE
---	ADJACENT PROPERTY	17	SEWER TAP, MODIFIED
1	SEWER REM, LESS THAN 24 INCH	18	DR STRUCTURE, TAP, 1-1/2 INCH
2	DR STRUCTURE, REM	19	DR STRUCTURE, TAP, 12 INCH
3	DR STRUCTURE COVER, ADJ, CASE 1, MODIFIED	20	DR STRUCTURE LEAD, CLEANING, MODIFIED
4	DR STRUCTURE COVER, ELEC, ADJ	21	DR STRUCTURE, CLEANING
5	STRUCTURE COVER, OTHER, ADJ (N.I.C.)	22	WATER SERV. TAP
6	DR STRUCTURE COVER, MODIFIED	23	1" TYPE 'K' HARD COPPER PIPE (REFER TO IRRIGATION PLANS)
7	DRAINLINE, 1-1/2 INCH, SCH 40 PVC	24	20" MANHOLE BOX AND COVER (REFER TO IRRIGATION PLANS)
8	WATERLINE, 1 INCH, TYPE K, COPPER		
9	SEWER, CL A, 12 INCH, TR DET B, MODIFIED		
10	WATER MAIN, DI, 6 INCH, TR DET G		
11	DR STRUCTURE, 24 INCH DIA	1	
12	DR STRUCTURE, 48 INCH DIA	2	

Midtown Loop  
Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



Midtown Detroit, Inc.

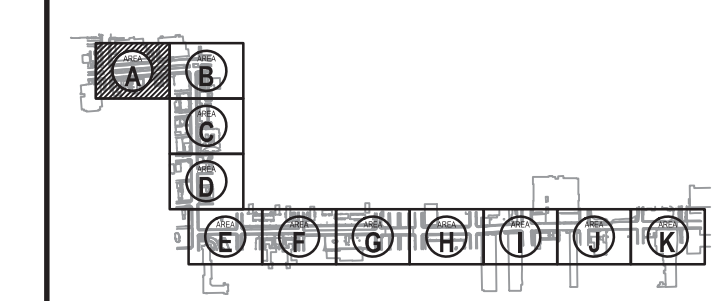
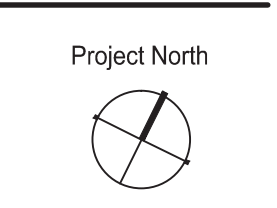
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80% CONSTRUCTION DOCUMENTS	1	JAN 07, 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05, 2012

SEALS AND SIGNATURES

KEY PLAN



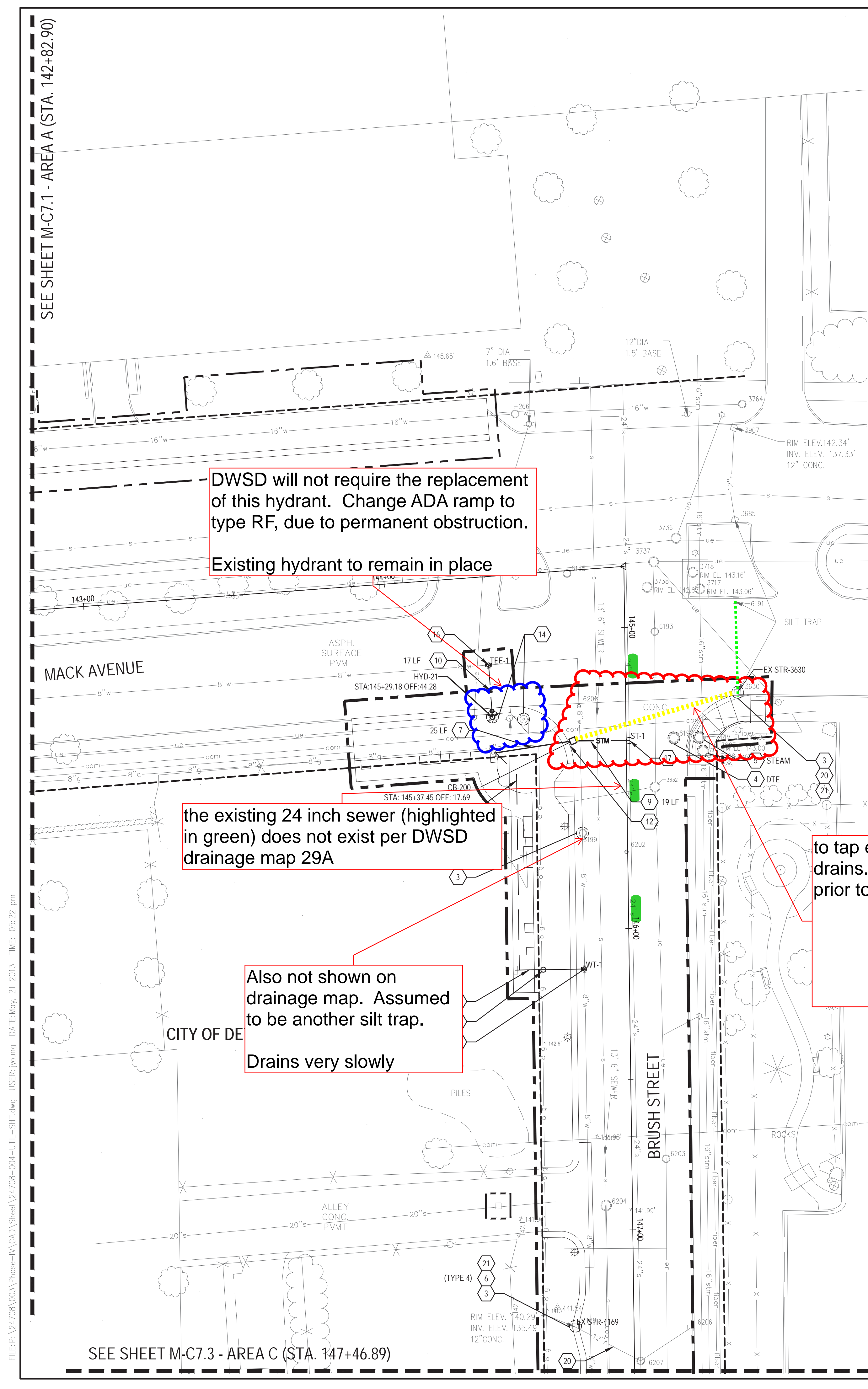
DRAWING TITLE  
UTILITY PLAN - AREA A

GRAPHIC SCALE  
TAKES PRECEDENCE  
FULL SIZE SCALE (24x36)  
1" = 20'-0"  
24708.003

PROJECT NUMBER  
M-C7.1  
DRAWING NUMBER  
312 of 497







MIDTOWN LOOP KEY NOTES AND LEGEND

UTILITY KEY NOTES AND LEGEND			
---	CONSTRUCTION LIMIT LINE	13	HYDRANT, RELOCATE, CASE 1, MODIFIED
---	RIGHT-OF-WAY LINE	14	HYDRANT, RELOCATE, CASE 2, MODIFIED
- - -	MATCH LINE	15	WATER SHUTOFF, ADJ. MODIFIED
---	HORIZONTAL ALIGNMENT	16	TEE
---	ADJACENT PROPERTY	17	SEWER TAP, MODIFIED
1	SEWER REM, LESS THAN 24 INCH	18	DR STRUCTURE, TAP, 1-1/2 INCH
2	DR STRUCTURE, REM	19	DR STRUCTURE, TAP, 12 INCH
3	DR STRUCTURE COVER, ADJ, CASE 1, MODIFIED	20	DR STRUCTURE LEAD, CLEANING, MODIFIED
4	DR STRUCTURE COVER, ELEC, ADJ	21	DR STRUCTURE, CLEANING
5	STRUCTURE COVER, OTHER, ADJ (N.I.C.)	22	WATER SERV. TAP
6	DR STRUCTURE COVER, MODIFIED	23	1" TYPE 'K' HARD COPPER PIPE (REFER TO IRRIGATION PLANS)
7	DRAINLINE, 1-1/2 INCH, SCH 40 PVC	24	20" MANHOLE BOX AND COVER (REFER TO IRRIGATION PLANS)
8	WATERLINE, 1 INCH, TYPE K, COPPER		
9	SEWER, CL A, 12 INCH, TR DET B, MODIFIED		
10	WATER MAIN, DI, 6 INCH, TR DET G		
11	DR STRUCTURE, 24 INCH DIA		
12	DR STRUCTURE, 48 INCH DIA		

M-C7.2 - UTILITY

QTY	UNIT	ITEM DESCRIPTION
0	Ft	Sewer, Rem, Less than 24 inch
0	Ea	Dr Structure, Rem
3	Ea	Dr Structure Cover, Adj, Case 1, Modified
0	Ea	Dr Structure Cover, Type 1, Modified
0	Ea	Dr Structure Cover, Type 2, Modified
1	Ea	Dr Structure Cover, Type 4, Modified
1	Ea	Structure Cover, Elec, Adj
19	Ft	Sewer, Cl A, 12 inch, Tr Det B, Modified
0	Ea	Dr Structure, Tap, 1 1/2 inch
0	Ea	Dr Structure, Tap, 12 inch
1	Ea	Sewer Tap, Modified
0	Ea	Dr Structure, 24 inch dia
1	Ea	Dr Structure, 48 inch dia
71	Ft	Dr Structure Lead, Cleaning, 12 inch
2	Ea	Dr Structure, Cleaning
0	Ea	Sewer Cleanout, Cover, Adj
0	Ea	Hydrant, Relocate, Case 1, Modified
1	Ea	Hydrant, Relocate, Case 2, Modified
0	Ea	Water Shutoff, Adj, Modified
17	Ft	Water Main, Di, 6 inch, Tr Det G
1	Ea	Water Serv. Tap
75	Ft	Water Line, 1 inch, Type K, Copper
25	Ft	Drainline, 1 1/2 inch, Sch 40 PVC
1	Ea	Erosion Control, Inlet Protection, Fabric Drop

NOTE:  
 1. REFER TO DRAWING G06 FOR UTILITY NOTES.  
 2. LIGHT POLE, FOUNDATION REMOVALS AND UTILITY POLE RELOCATIONS SHOWN ON THESE PLANS ARE FOR REFERENCE ONLY. REFER TO ELECTRICAL PLANS FOR SPECIFIC REMOVALS AND PAY ITEM QUANTITIES.

DWSD will not require the replacement of this hydrant. Change ADA ramp to type RF, due to permanent obstruction. Existing hydrant to remain in place

the existing 24 inch sewer (highlighted in green) does not exist per DWSD drainage map 29A

Also not shown on drainage map. Assumed to be another silt trap. Drains very slowly

to tap existing silt trap if drains. AICC to test drain prior to tap using water truck

Midtown Loop Phase IV

Midtown Loop Detroit, Michigan



Owners:



City of Detroit



Midtown Detroit, Inc.

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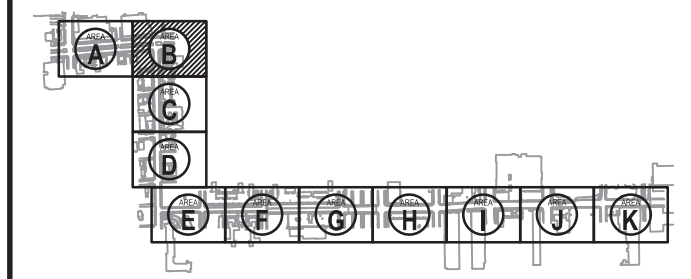
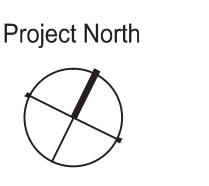
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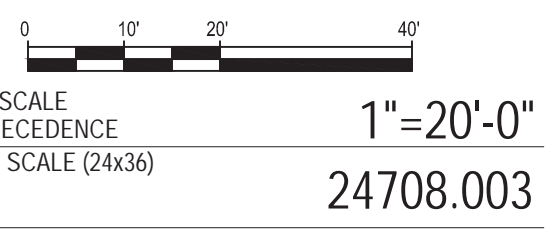
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GRADE INSPECTION	2	JAN 30, 2013
80% CONSTRUCTION DOCUMENTS	1	JAN 07, 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05, 2012

SEALS AND SIGNATURES

KEY PLAN



DRAWING TITLE  
 UTILITY PLAN - AREA B

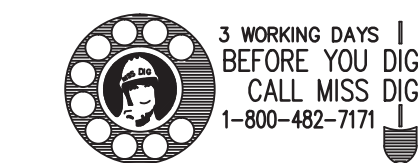


GRAPHIC SCALE TAKES PRECEDENCE FULL SIZE SCALE (24x36)  
 1"=20'-0"  
 24708.003

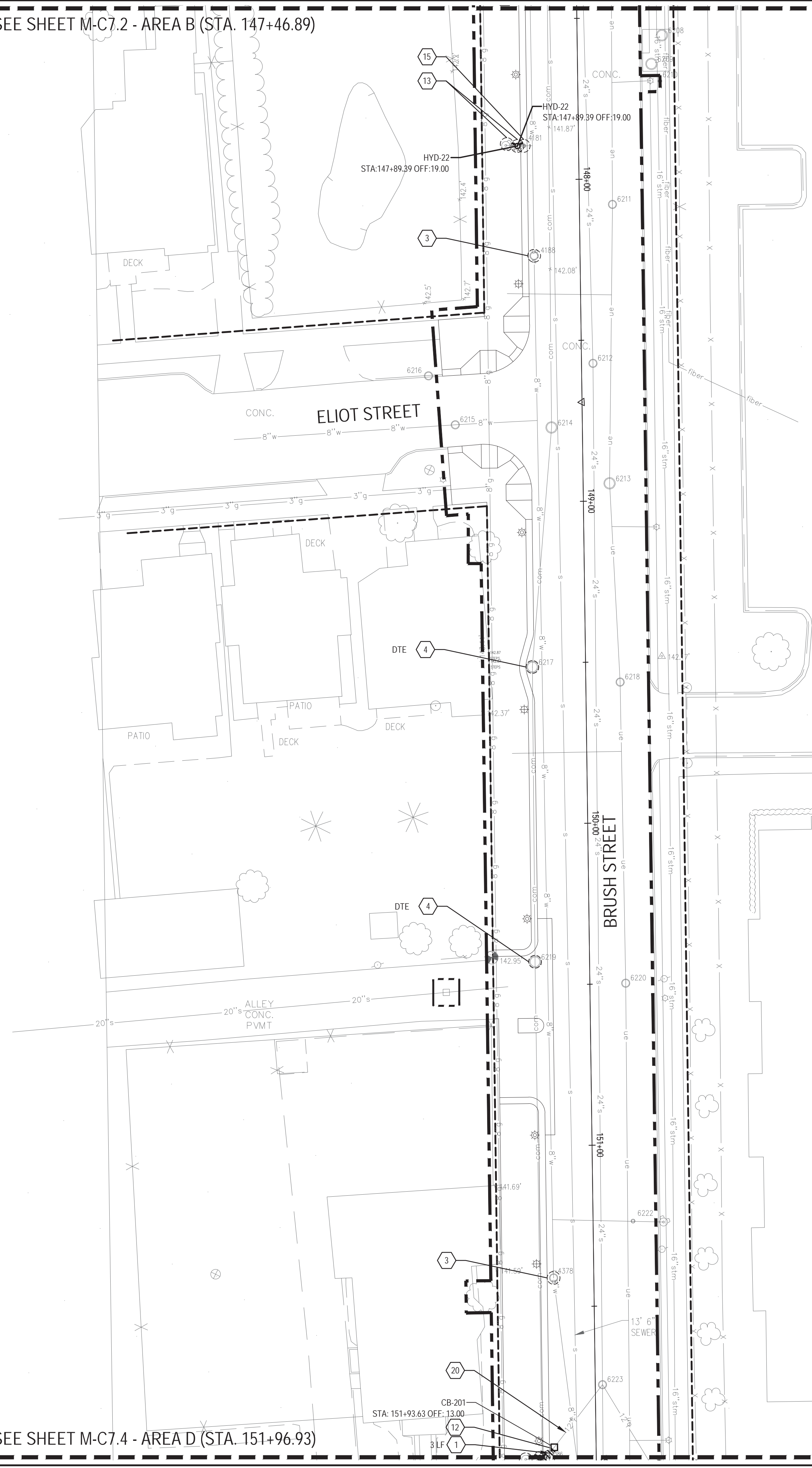
PROJECT NUMBER

M-C7.2

DRAWING NUMBER



SEE SHEET M-C7.2 - AREA B (STA. 147+46.89)



SEE SHEET M-C7.4 - AREA D (STA. 151+96.93)

MIDTOWN LOOP KEY NOTES AND LEGEND

UTILITY KEY NOTES AND LEGEND			
---	CONSTRUCTION LIMIT LINE	13	HYDRANT, RELOCATE, CASE 1, MODIFIED
---	RIGHT - OF - WAY LINE	14	HYDRANT, RELOCATE, CASE 2, MODIFIED
---	MATCH LINE	15	WATER SHUTOFF, ADJ. MODIFIED
---	HORIZONTAL ALIGNMENT	16	TEE
---	ADJACENT PROPERTY	17	SEWER TAP, MODIFIED
1	SEWER REM, LESS THAN 24 INCH	18	DR STRUCTURE, TAP, 1-1/2 INCH
2	DR STRUCTURE, REM	19	DR STRUCTURE, TAP, 12 INCH
3	DR STRUCTURE COVER, ADJ, CASE 1, MODIFIED	20	DR STRUCTURE LEAD, CLEANING, MODIFIED
4	DR STRUCTURE COVER, ELEC, ADJ	21	DR STRUCTURE, CLEANING
5	STRUCTURE COVER, OTHER, ADJ (N.I.C.)	22	WATER SERV, TAP
6	DR STRUCTURE COVER, MODIFIED	23	1" TYPE "K" HARD COPPER PIPE (REFER TO IRRIGATION PLANS)
7	DRAINLINE, 1-1/2 INCH, SCH 40 PVC	24	20" MANHOLE BOX AND COVER (REFER TO IRRIGATION PLANS)
8	WATERLINE, 1 INCH, TYPE K, COPPER		
9	SEWER, CL. A, 12 INCH, TR DET B, MODIFIED		
10	WATER MAIN, DI, 6 INCH, TR DET G		
11	DR STRUCTURE, 24 INCH DIA	1	
12	DR STRUCTURE, 48 INCH DIA	2	

M-C7.3 - UTILITY

QTY	UNIT	ITEM DESCRIPTION
31	Ft	Sewer, Rem, Less than 24 inch
0	Ea	Dr Structure, Rem
2	Ea	Dr Structure Cover, Adj, Case 1, Modified
0	Ea	Dr Structure Cover, Type 1, Modified
0	Ea	Dr Structure Cover, Type 2, Modified
0	Ea	Dr Structure Cover, Type 4, Modified
2	Ea	Structure Cover, Elec, Adj
0	Ft	Sewer, Cl. A, 12 inch, Tr Det B, Modified
0	Ea	Dr Structure, Tap, 1 1/2 inch
0	Ea	Dr Structure, Tap, 12 inch
0	Ea	Sewer Tap, Modified
0	Ea	Dr Structure, 24 inch dia
1	Ea	Dr Structure, 48 inch dia
25	Ft	Dr Structure Lead, Cleaning, 12 inch
0	Ea	Dr Structure, Cleaning
0	Ea	Sewer Cleanout, Cover, Adj
1	Ea	Hydrant, Relocate, Case 1, Modified
0	Ea	Hydrant, Relocate, Case 2, Modified
1	Ea	Water Shutoff, Adj, Modified
0	Ft	Water Main, Di, 6 inch, Tr Det G
0	Ea	Water Serv, Tap
0	Ft	Water Line, 1 inch, Type K, Copper
0	Ft	Drainline, 1 1/2 inch, Sch 40 PVC
1	Ea	Erosion Control, Inlet Protection, Fabric Drop

NOTE:  
 1. REFER TO DRAWING C06 FOR UTILITY NOTES.  
 2. LIGHT POLE, FOUNDATION REMOVALS AND UTILITY POLE RELOCATIONS SHOWN ON THESE PLANS ARE FOR REFERENCE ONLY. REFER TO ELECTRICAL PLANS FOR SPECIFIC REMOVALS AND PAY ITEM QUANTITIES.

Midtown Loop Phase IV

Midtown Loop Detroit, Michigan



Owners:



City of Detroit



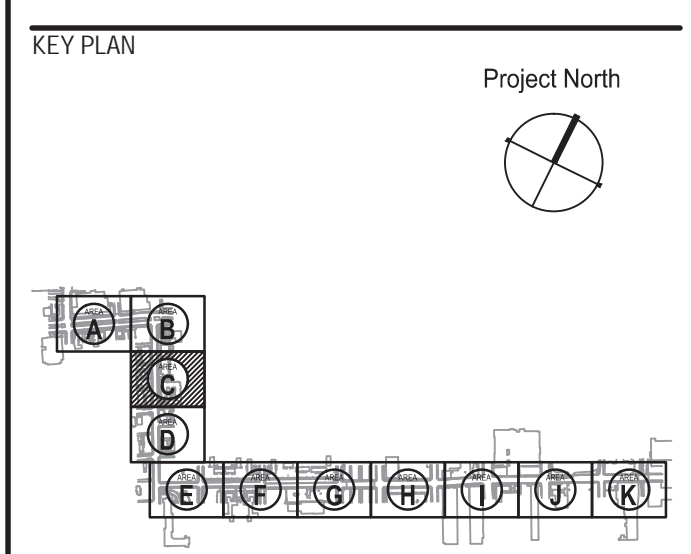
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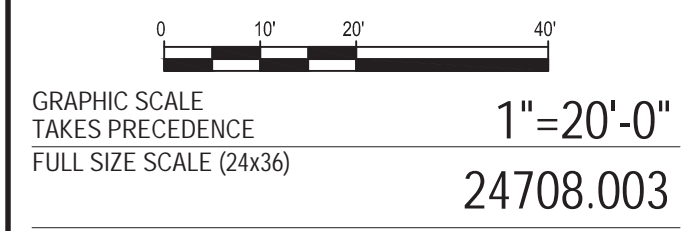
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50% CONSTRUCTION DOCUMENTS	0	NOV 05, 2012

SEALS AND SIGNATURES



DRAWING TITLE  
 UTILITY PLAN - AREA C

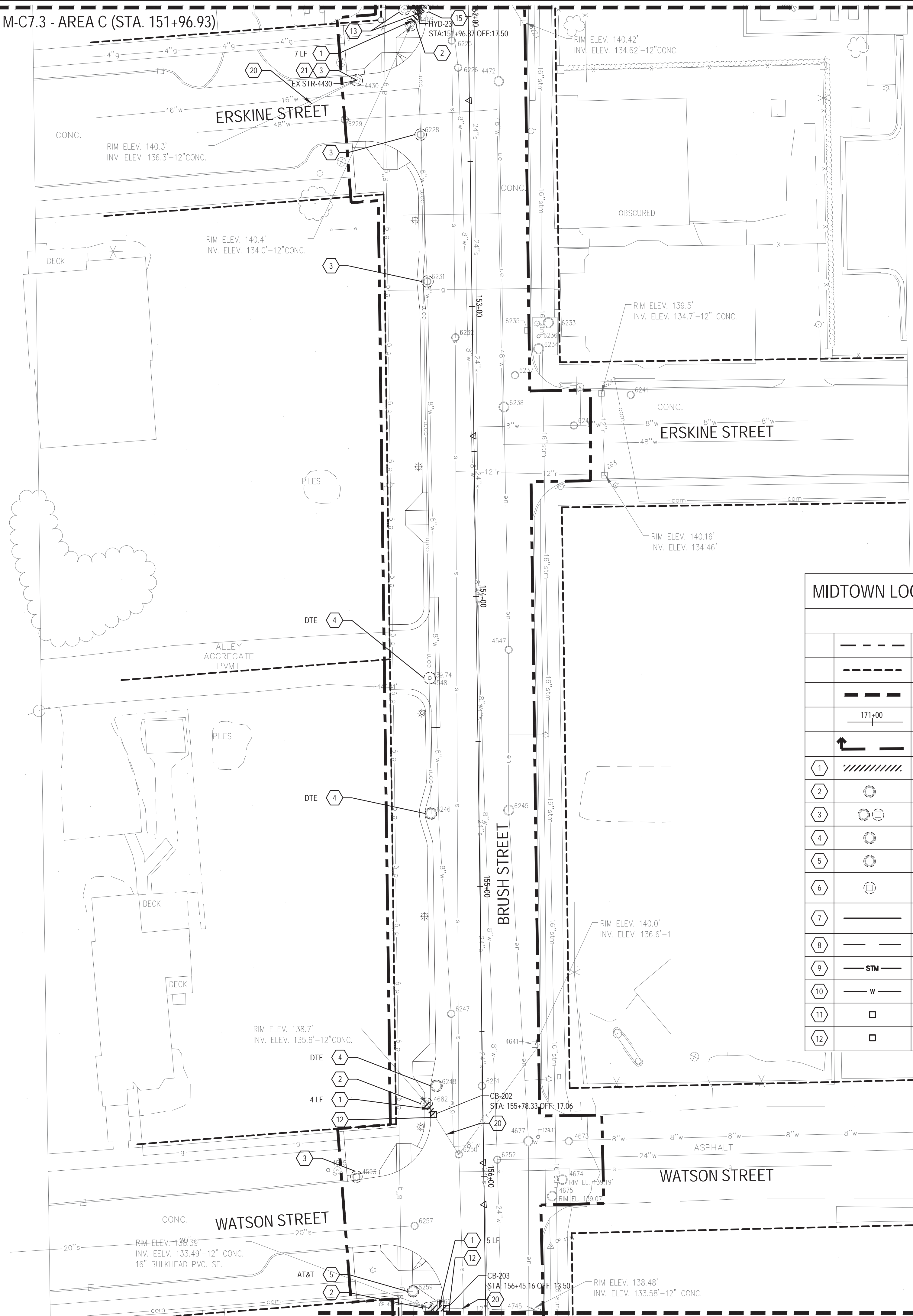


PROJECT NUMBER  
**M-C7.3**  
 DRAWING NUMBER  
 314 of 497



FILE: P:\24708\003\Phase-IV\CAD\Sheet\24708-004-UTIL-SHT.dwg USER: jyoung DATE: May, 21, 2013 TIME: 05:22 pm

SEE SHEET M-C7.3 - AREA C (STA. 151+96.93)



**M-C7.4 - UTILITY**

QTY	UNIT	ITEM DESCRIPTION
16	Ft	Sewer, Rem, Less than 24 inch
3	Ea	Dr Structure, Rem
4	Ea	Dr Structure Cover, Adj, Case 1, Modified
0	Ea	Dr Structure Cover, Type 1, Modified
0	Ea	Dr Structure Cover, Type 2, Modified
0	Ea	Dr Structure Cover, Type 4, Modified
3	Ea	Structure Cover, Elec, Adj
0	Ft	Sewer, Cl A, 12 inch, Tr Det B, Modified
0	Ea	Dr Structure, Tap, 1 1/2 inch
0	Ea	Dr Structure, Tap, 12 inch
0	Ea	Sewer Tap, Modified
0	Ea	Dr Structure, 24 inch dia
2	Ea	Dr Structure, 48 inch dia
82	Ft	Dr Structure Lead, Cleaning, 12 inch
1	Ea	Dr Structure, Cleaning
0	Ea	Sewer Cleanout, Cover, Adj
1	Ea	Hydrant, Relocate, Case 1, Modified
0	Ea	Hydrant, Relocate, Case 2, Modified
1	Ea	Water Shutoff, Adj, Modified
0	Ft	Water Main, DI, 6 inch, Tr Det G
0	Ea	Water Serv, Tap
0	Ft	Water Line, 1 inch, Type K, Copper
0	Ft	Drainline, 1 1/2 inch, Sch 40 PVC
2	Ea	Erosion Control, Inlet Protection, Fabric Drop

**MIDTOWN LOOP KEY NOTES AND LEGEND**

UTILITY KEY NOTES AND LEGEND			
	CONSTRUCTION LIMIT LINE		_HYDRANT, RELOCATE, CASE 1, MODIFIED
	RIGHT - OF - WAY LINE		_HYDRANT, RELOCATE, CASE 2, MODIFIED
	MATCH LINE		_WATER SHUTOFF, ADJ, MODIFIED
	HORIZONTAL ALIGNMENT		TEE
	ADJACENT PROPERTY		_SEWER TAP, MODIFIED
	SEWER REM, LESS THAN 24 INCH		DR STRUCTURE, TAP, 1-1/2 INCH
	DR STRUCTURE, REM		DR STRUCTURE, TAP, 12 INCH
	_DR STRUCTURE COVER, ADJ, CASE 1, MODIFIED		_DR STRUCTURE LEAD, CLEANING, MODIFIED
	_STRUCTURE COVER, ELEC, ADJ		_DR STRUCTURE, CLEANING
	STRUCTURE COVER, OTHER, ADJ (N.I.C.)		WATER SERV, TAP
	_DR STRUCTURE COVER, MODIFIED		1" TYPE "K" HARD COPPER PIPE (REFER TO IRRIGATION PLANS)
	_DRAINLINE, 1-1/2 INCH, SCH 40 PVC		20" MANHOLE BOX AND COVER (REFER TO IRRIGATION PLANS)
	_WATERLINE, 1 INCH, TYPE K, COPPER		
	_SEWER, CL A, 12 INCH, TR DET B, MODIFIED		
	WATER MAIN, DI, 6 INCH, TR DET G		
	DR STRUCTURE, 24 INCH DIA		
	DR STRUCTURE, 48 INCH DIA		

NOTE:  
 1. REFER TO DRAWING C0.6 FOR UTILITY NOTES.  
 2. LIGHT POLE, FOUNDATION REMOVALS AND UTILITY POLE RELOCATIONS SHOWN ON THESE PLANS ARE FOR REFERENCE ONLY. REFER TO ELECTRICAL PLANS FOR SPECIFIC REMOVALS AND PAY ITEM QUANTITIES.

**Midtown Loop Phase IV**

Midtown Loop  
 Detroit, Michigan



Owners:



City of Detroit



Midtown Detroit, Inc.

**SMITHGROUP JJR**

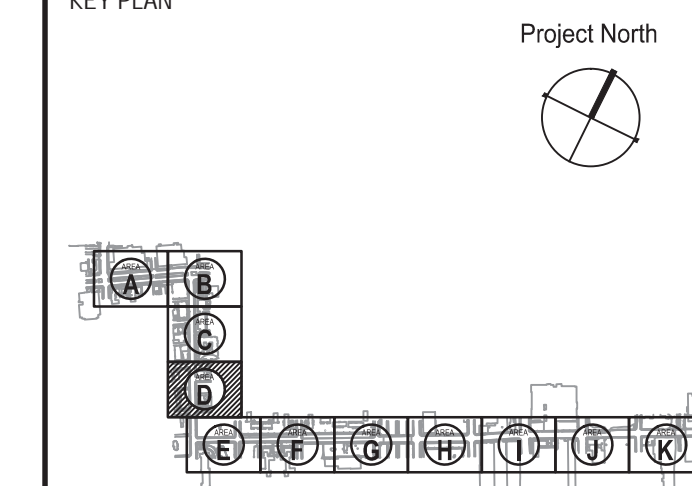
201 DEPOT STREET  
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 www.smithgroupjjr.com

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BIDDING DOCUMENTS	4	MAY 02, 2013
100% CONSTRUCTION DOCUMENTS	3	APR 01, 2013
GRADE INSPECTION	2	JAN 30, 2013
80% CONSTRUCTION DOCUMENTS	1	JAN 07, 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05, 2012

SEALS AND SIGNATURES

KEY PLAN



DRAWING TITLE  
**UTILITY PLAN - AREA D**

GRAPHIC SCALE  
 TAKES PRECEDENCE  
 FULL SIZE SCALE (24x36)  
 1" = 20'-0"  
 24708.003

PROJECT NUMBER

**M-C7.4**

DRAWING NUMBER

315 of 497

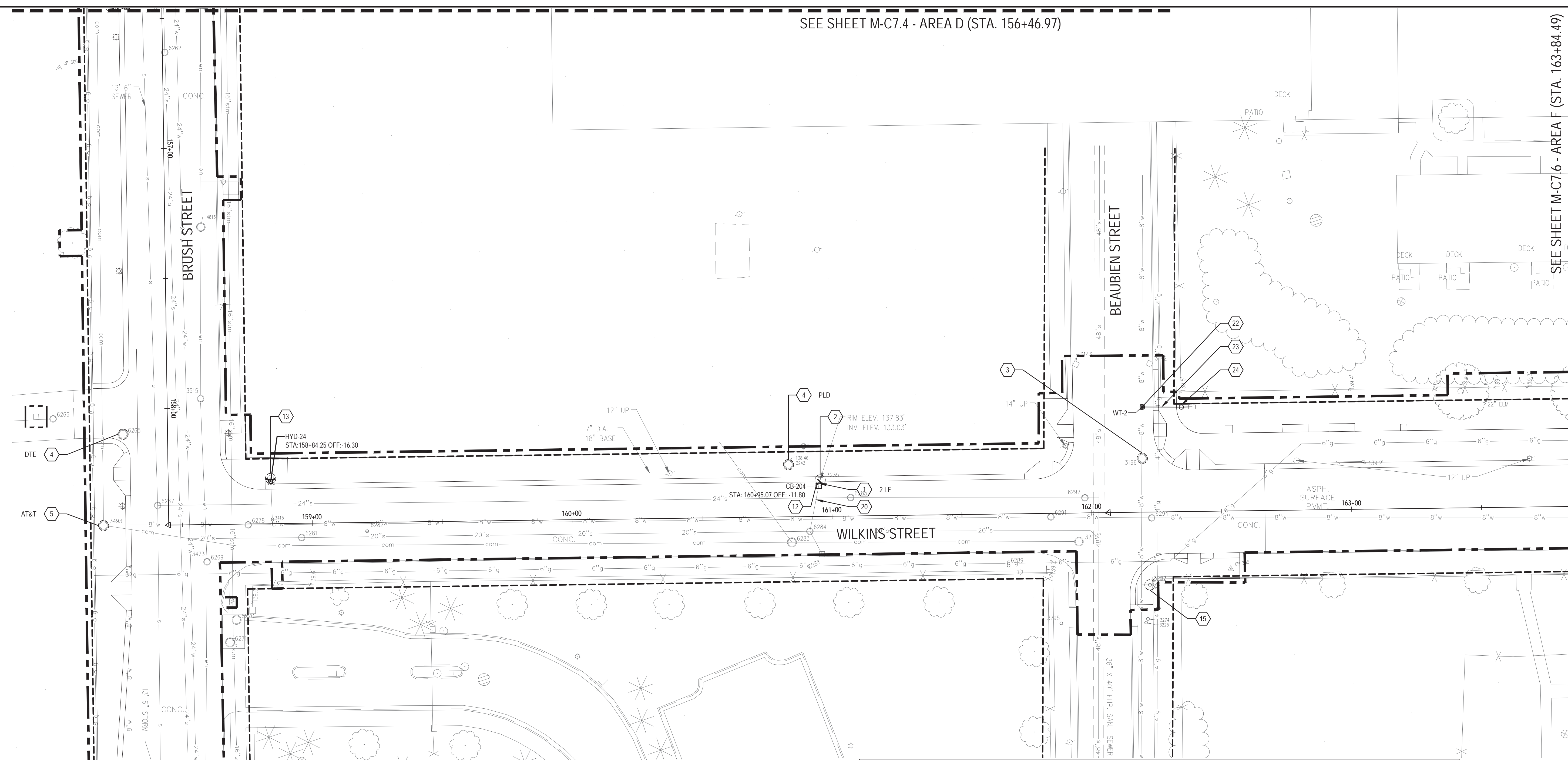
SEE SHEET M-C7.5 - AREA E (STA. 156+46.97)



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SEE SHEET M-C7.4 - AREA D (STA. 156+46.97)

SEE SHEET M-C7.6 - AREA F (STA. 163+84.49)



**Midtown Loop Phase IV**  
 Midtown Loop  
 Detroit, Michigan

**MDOT**  
 Michigan Department of Transportation

Owners:  
  
 City of Detroit

**MIDTOWN**  
 DETROIT, INC.

Midtown Detroit, Inc.

**SMITHGROUP JJR**

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50% CONSTRUCTION DOCUMENTS	0	NOV 05 2012

SEALS AND SIGNATURES

KEY PLAN

Project North

**M-C7.5 - UTILITY**

QTY	UNIT	DESCRIPTION
2	Ft	Sewer, Rem, Less than 24 inch
1	Ea	Dr Structure, Rem
1	Ea	Dr Structure Cover, Adj, Case 1, Modified
0	Ea	Dr Structure Cover, Type 1, Modified
0	Ea	Dr Structure Cover, Type 2, Modified
0	Ea	Dr Structure Cover, Type 4, Modified
2	Ea	Structure Cover, Elec, Adj
0	Ft	Sewer, Cl A, 12 inch, Tr Det B, Modified
0	Ea	Dr Structure, Tap, 1 1/2 inch
0	Ea	Dr Structure, Tap, 12 inch
0	Ea	Sewer Tap, Modified
0	Ea	Dr Structure, 24 inch dia
1	Ea	Dr Structure, 48 inch dia
36	Ft	Dr Structure Lead, Cleaning, 12 inch
0	Ea	Dr Structure, Cleaning
0	Ea	Sewer Cleanout, Cover, Adj
1	Ea	Hydrant, Relocate, Case 1, Modified
0	Ea	Hydrant, Relocate, Case 2, Modified
1	Ea	Water Shutoff, Adj, Modified
0	Ft	Water Main, Dj, 6 inch, Tr Det G
1	Ea	Water Serv, Tap
0	Ft	Water Line, 1 inch, Type K, Copper
0	Ft	Drainline, 1 1/2 inch, Sch 40 PVC
1	Ea	Erosion Control, Inlet Protection, Fabric Drop

NOTE:  
 1. REFER TO DRAWING G0.6 FOR UTILITY NOTES.  
 2. LIGHT POLE, FOUNDATION REMOVALS AND UTILITY POLE RELOCATIONS SHOWN ON THESE PLANS ARE FOR REFERENCE ONLY. REFER TO ELECTRICAL PLANS FOR SPECIFIC REMOVALS AND PAY ITEM QUANTITIES.

**MIDTOWN LOOP KEY NOTES AND LEGEND**

UTILITY KEY NOTES AND LEGEND				
	CONSTRUCTION LIMIT LINE	13		_HYDRANT, RELOCATE, CASE 1, MODIFIED
	RIGHT - OF - WAY LINE	14		_HYDRANT, RELOCATE, CASE 2, MODIFIED
	MATCH LINE	15		_WATER SHUTOFF, ADJ, MODIFIED
	HORIZONTAL ALIGNMENT	16		TEE
	ADJACENT PROPERTY	17		_SEWER TAP, MODIFIED
	SEWER REM, LESS THAN 24 INCH	18		DR STRUCTURE, TAP, 1-1/2 INCH
	DR STRUCTURE, REM	19		DR STRUCTURE, TAP, 12 INCH
	_DR STRUCTURE COVER, ADJ, CASE 1, MODIFIED	20		_DR STRUCTURE LEAD, CLEANING, MODIFIED
	_STRUCTURE COVER, ELEC, ADJ	21		_DR STRUCTURE, CLEANING
	STRUCTURE COVER, OTHER, ADJ (N.I.C.)	22		WATER SERV, TAP
	_DR STRUCTURE COVER, MODIFIED	23		1" TYPE 'K' HARD COPPER PIPE (REFER TO IRRIGATION PLANS)
	_DRAINLINE, 1-1/2 INCH, SCH 40 PVC	24		20" MANHOLE BOX AND COVER (REFER TO IRRIGATION PLANS)
	_WATERLINE, 1 INCH, TYPE K, COPPER			
	_SEWER, CL A, 12 INCH, TR DET B, MODIFIED			
	WATER MAIN, DJ, 6 INCH, TR DET G			
	DR STRUCTURE, 24 INCH DIA	1 M-C7.14		
	DR STRUCTURE, 48 INCH DIA	2 M-C7.14		

DRAWING TITLE  
**UTILITY PLAN - AREA E**

GRAPHIC SCALE  
 TAKES PRECEDENCE  
 FULL SIZE SCALE (24x36)  
 1" = 20'-0"  
 24708.003

PROJECT NUMBER  
**M-C7.5**

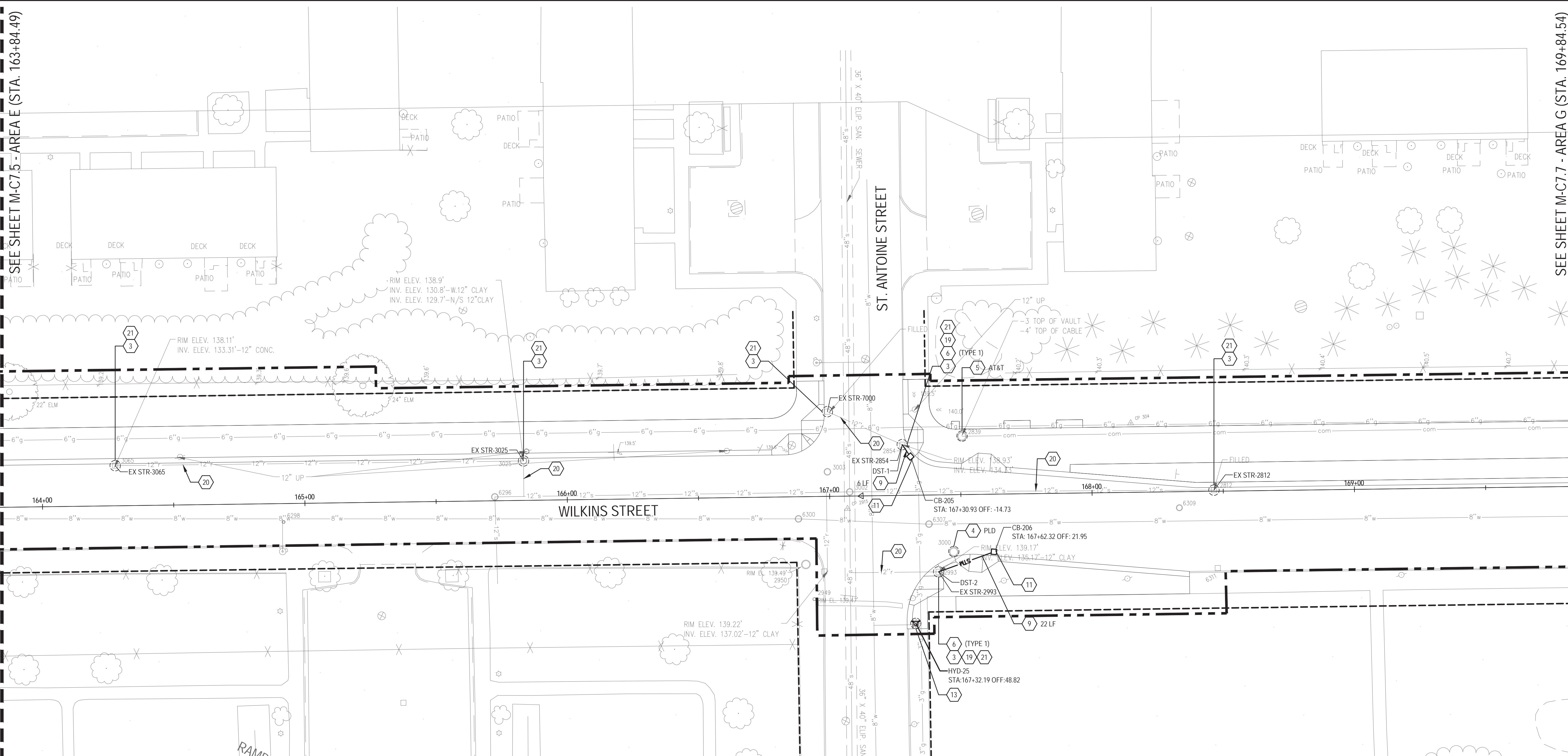
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SEE SHEET M-C7.5 - AREA E (STA. 163+84.49)

SEE SHEET M-C7.7 - AREA G (STA. 169+84.54)



M-C7.6 - UTILITY		
QTY	UNIT	ITEM DESCRIPTION
0	Ft	Sewer, Rem, Less than 24 inch
0	Ea	Dr Structure, Rem
6	Ea	Dr Structure Cover, Adj, Case 1, Modified
0	Ea	Dr Structure Cover, Type 1, Modified
2	Ea	Dr Structure Cover, Type 2, Modified
0	Ea	Dr Structure Cover, Type 4, Modified
1	Ea	Structure Cover, Elec, Adj
28	Ft	Sewer, Cl A, 12 inch, Tr Det B, Modified
0	Ea	Dr Structure, Tap, 1 1/2 inch
2	Ea	Dr Structure, Tap, 12 inch
0	Ea	Sewer Tap, Modified
2	Ea	Dr Structure, 24 inch dia
0	Ea	Dr Structure, 48 inch dia
343	Ft	Dr Structure Lead, Cleaning, 12 inch
6	Ea	Dr Structure, Cleaning
0	Ea	Sewer Cleanout, Cover, Adj
1	Ea	Hydrant, Relocate, Case 1, Modified
0	Ea	Hydrant, Relocate, Case 2, Modified
0	Ea	Water Shutoff, Adj, Modified
0	Ft	Water Main, Di, 6 inch, Tr Det G
0	Ea	Water Serv, Tap
0	Ft	Water Line, 1 inch, Type K, Copper
0	Ft	Drainline, 1 1/2 inch, Sch 40 PVC
2	Ea	Erosion Control, Inlet Protection, Fabric Drop

NOTE:  
 1. REFER TO DRAWING G0.6 FOR UTILITY NOTES.  
 2. LIGHT POLE, FOUNDATION REMOVALS AND UTILITY POLE RELOCATIONS SHOWN ON THESE PLANS ARE FOR REFERENCE ONLY. REFER TO ELECTRICAL PLANS FOR SPECIFIC REMOVALS AND PAY ITEM QUANTITIES.

MIDTOWN LOOP KEY NOTES AND LEGEND

UTILITY KEY NOTES AND LEGEND				
---	CONSTRUCTION LIMIT LINE	13	⊕	_HYDRANT, RELOCATE, CASE 1, MODIFIED
- - - -	RIGHT - OF - WAY LINE	14	⊕	_HYDRANT, RELOCATE, CASE 2, MODIFIED
---	MATCH LINE	15	⊕	_WATER SHUTOFF, ADJ, MODIFIED
---	HORIZONTAL ALIGNMENT	16	⊕	TEE
---	ADJACENT PROPERTY	17	⊕	_SEWER TAP, MODIFIED
171+00		18		DR STRUCTURE, TAP, 1-1/2 INCH
1	SEWER REM, LESS THAN 24 INCH	19		DR STRUCTURE, TAP, 12 INCH
2	DR STRUCTURE, REM	20		_DR STRUCTURE LEAD, CLEANING, MODIFIED
3	_DR STRUCTURE COVER, ADJ, CASE 1, MODIFIED	21		_DR STRUCTURE, CLEANING
4	_STRUCTURE COVER, ELEC, ADJ	22		WATER SERV, TAP
5	STRUCTURE COVER, OTHER, ADJ (N.I.C.)	23		1" TYPE 'K' HARD COPPER PIPE (REFER TO IRRIGATION PLANS)
6	_DR STRUCTURE COVER, MODIFIED	24		20" MANHOLE BOX AND COVER (REFER TO IRRIGATION PLANS)
7	_DRAINLINE, 1-1/2 INCH, SCH 40 PVC			
8	_WATERLINE, 1 INCH, TYPE K, COPPER			
9	_SEWER, CL A, 12 INCH, TR DET B, MODIFIED			
10	WATER MAIN, DI, 6 INCH, TR DET G			
11	DR STRUCTURE, 24 INCH DIA	1		
12	DR STRUCTURE, 48 INCH DIA	2		

Midtown Loop  
 Phase IV  
 Midtown Loop  
 Detroit, Michigan

MDOT  
 Michigan Department of Transportation

Owners:  
 City of Detroit

MIDTOWN  
 DETROIT

Midtown Detroit, Inc.

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50% CONSTRUCTION DOCUMENTS	0	NOV 05, 2012

SEALS AND SIGNATURES

KEY PLAN

Project North

DRAWING TITLE  
 UTILITY PLAN - AREA F

GRAPHIC SCALE  
 TAKES PRECEDENCE  
 FULL SIZE SCALE (24x36)  
 1" = 20'-0"  
 24708.003

PROJECT NUMBER  
 M-C7.6

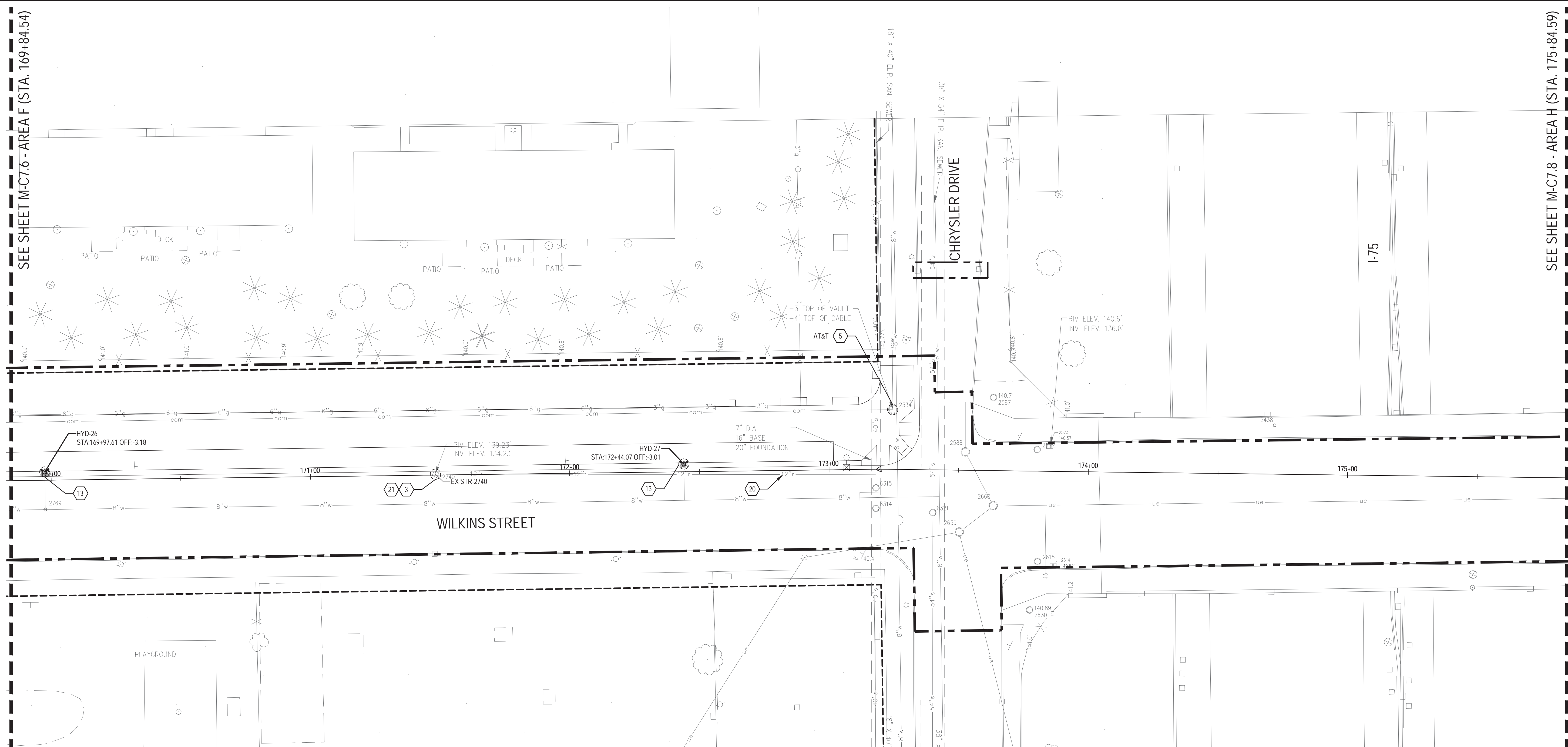
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SEE SHEET M-C7.6 - AREA F (STA. 169+84.54)

SEE SHEET M-C7.8 - AREA H (STA. 175+84.59)



MIDTOWN LOOP KEY NOTES AND LEGEND

UTILITY KEY NOTES AND LEGEND			
---	CONSTRUCTION LIMIT LINE	13	HYDRANT, RELOCATE, CASE 1, MODIFIED
---	RIGHT - OF - WAY LINE	14	HYDRANT, RELOCATE, CASE 2, MODIFIED
---	MATCH LINE	15	WATER SHUTOFF, ADJ, MODIFIED
---	HORIZONTAL ALIGNMENT	16	TEE
---	ADJACENT PROPERTY	17	SEWER TAP, MODIFIED
1	SEWER REM, LESS THAN 24 INCH	18	DR STRUCTURE, TAP, 1-1/2 INCH
2	DR STRUCTURE, REM	19	DR STRUCTURE, TAP, 12 INCH
3	DR STRUCTURE COVER, ADJ, CASE 1, MODIFIED	20	DR STRUCTURE LEAD, CLEANING, MODIFIED
4	STRUCTURE COVER, ELEC, ADJ	21	DR STRUCTURE, CLEANING
5	STRUCTURE COVER, OTHER, ADJ (N.I.C.)	22	WATER SERV, TAP
6	DR STRUCTURE COVER, MODIFIED	23	1" TYPE "K" HARD COPPER PIPE (REFER TO IRRIGATION PLANS)
7	DRAINLINE, 1-1/2 INCH, SCH 40 PVC	24	20" MANHOLE BOX AND COVER (REFER TO IRRIGATION PLANS)
8	WATERLINE, 1 INCH, TYPE K, COPPER		
9	SEWER, CL A, 12 INCH, TR DET B, MODIFIED		
10	WATER MAIN, DI, 6 INCH, TR DET G		
11	DR STRUCTURE, 24 INCH DIA	1	DR STRUCTURE, CLEANING
12	DR STRUCTURE, 48 INCH DIA	2	Sewer Cleanout, Cover, Adj

**M-C7.7 - UTILITY**

QTY	UNIT	ITEM DESCRIPTION
0	Ft	Sewer, Rem, Less than 24 inch
0	Ea	Dr Structure, Rem
1	Ea	Dr Structure Cover, Adj, Case 1, Modified
0	Ea	Dr Structure Cover, Type 1, Modified
0	Ea	Dr Structure Cover, Type 2, Modified
0	Ea	Dr Structure Cover, Type 4, Modified
0	Ea	Structure Cover, Elec, Adj
0	Ft	Sewer, Cl A, 12 inch, Tr Det B, Modified
0	Ea	Dr Structure, Tap, 1 1/2 inch
0	Ea	Dr Structure, Tap, 12 inch
0	Ea	Sewer Tap, Modified
0	Ea	Dr Structure, 24 inch dia
0	Ea	Dr Structure, 48 inch dia
170	Ft	Dr Structure Lead, Cleaning, 12 inch
1	Ea	Dr Structure, Cleaning
0	Ea	Sewer Cleanout, Cover, Adj
2	Ea	Hydrant, Relocate, Case 1, Modified
0	Ea	Hydrant, Relocate, Case 2, Modified
0	Ea	Water Shutoff, Adj, Modified
0	Ft	Water Main, Di, 6 inch, Tr Det G
0	Ea	Water Serv, Tap
0	Ft	Water Line, 1 inch, Type K, Copper
0	Ft	Drainline, 1 1/2 inch, Sch 40 PVC
0	Ea	Erosion Control, Inlet Protection, Fabric Drop

NOTE:  
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Midtown Loop Phase IV

Midtown Loop  
 Detroit, Michigan



Owners:  
 City of Detroit



Midtown Detroit, Inc.

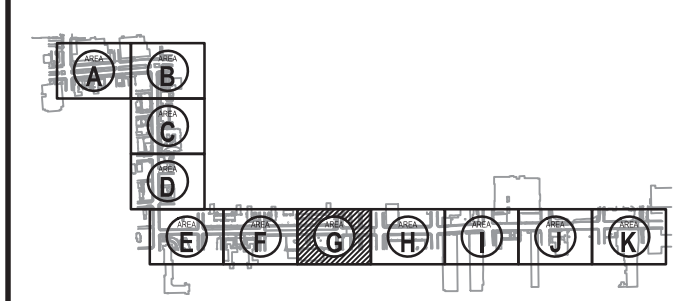
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80% CONSTRUCTION DOCUMENTS	1	JAN 07, 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05, 2012

SEALS AND SIGNATURES

KEY PLAN



DRAWING TITLE  
 UTILITY PLAN - AREA G

GRAPHIC SCALE  
 TAKES PRECEDENCE  
 FULL SIZE SCALE (24x36)  
 1" = 20'-0"  
 24708.003

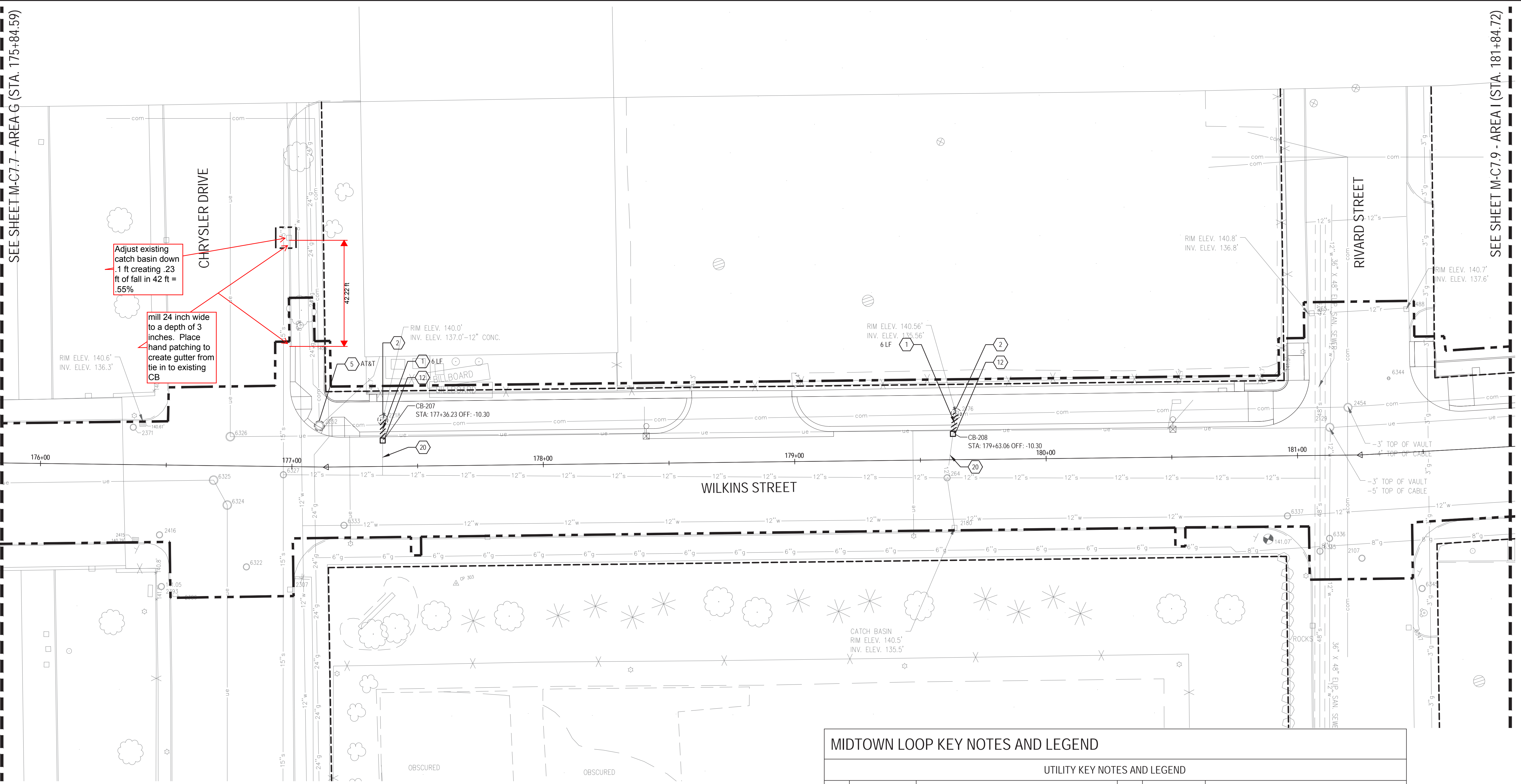
PROJECT NUMBER  
 M-C7.7  
 DRAWING NUMBER  
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SEE SHEET M-C7.9 - AREA I (STA. 181+84.72)



Adjust existing catch basin down .1 ft creating .23 ft of fall in 42 ft = .55%

mill 24 inch wide to a depth of 3 inches. Place hand patching to create gutter from tie in to existing CB

**M-C7.8 - UTILITY**

QTY	UNIT	ITEM DESCRIPTION
12	Ft	Sewer, Rem, Less than 24 inch
2	Ea	Dr Structure, Rem
0	Ea	Dr Structure Cover, Adj, Case 1, Modified
0	Ea	Dr Structure Cover, Type 1, Modified
0	Ea	Dr Structure Cover, Type 2, Modified
0	Ea	Dr Structure Cover, Type 4, Modified
0	Ea	Structure Cover, Elec, Adj
0	Ft	Sewer, Cl A, 12 inch, Tr Det B, Modified
0	Ea	Dr Structure, Tap, 1 1/2 inch
0	Ea	Dr Structure, Tap, 12 inch
0	Ea	Sewer Tap, Modified
0	Ea	Dr Structure, 24 inch dia
2	Ea	Dr Structure, 48 inch dia
48	Ft	Dr Structure Lead, Cleaning, 12 inch
0	Ea	Dr Structure, Cleaning
0	Ea	Sewer Cleanout, Cover, Adj
0	Ea	Hydrant, Relocate, Case 1, Modified
0	Ea	Hydrant, Relocate, Case 2, Modified
0	Ea	Water Shutoff, Adj, Modified
0	Ft	Water Main, DI, 6 inch, Tr Det G
0	Ea	Water Serv. Tap
0	Ft	Water Line, 1 inch, Type K, Copper
0	Ft	Drainline, 1 1/2 inch, Sch 40 PVC
2	Ea	Erosion Control, Inlet Protection, Fabric Drop

NOTE:  
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**MIDTOWN LOOP KEY NOTES AND LEGEND**

UTILITY KEY NOTES AND LEGEND				
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	RIGHT - OF - WAY LINE	14		_HYDRANT, RELOCATE, CASE 2, MODIFIED
	MATCH LINE	15		_WATER SHUTOFF, ADJ, MODIFIED
	HORIZONTAL ALIGNMENT	16		TEE
	ADJACENT PROPERTY	17		_SEWER TAP, MODIFIED
	SEWER REM, LESS THAN 24 INCH	18		DR STRUCTURE, TAP, 1-1/2 INCH
	DR STRUCTURE, REM	19		DR STRUCTURE, TAP, 12 INCH
	_DR STRUCTURE COVER, ADJ, CASE 1, MODIFIED	20		_DR STRUCTURE LEAD, CLEANING, MODIFIED
	_STRUCTURE COVER, ELEC, ADJ	21		_DR STRUCTURE, CLEANING
	STRUCTURE COVER, OTHER, ADJ (N.I.C.)	22		WATER SERV. TAP
	_DR STRUCTURE COVER, MODIFIED	23		1" TYPE 'K' HARD COPPER PIPE (REFER TO IRRIGATION PLANS)
	_DRAINLINE, 1-1/2 INCH, SCH 40 PVC	24		20" MANHOLE BOX AND COVER (REFER TO IRRIGATION PLANS)
	_WATERLINE, 1 INCH, TYPE K, COPPER			
	_SEWER, CL A, 12 INCH, TR DET B, MODIFIED			
	WATER MAIN, DI, 6 INCH, TR DET G			
	DR STRUCTURE, 24 INCH DIA	1 M-C7.14		
	DR STRUCTURE, 48 INCH DIA	2 M-C7.14		

**Midtown Loop Phase IV**

Midtown Loop  
 Detroit, Michigan



Midtown Detroit, Inc.

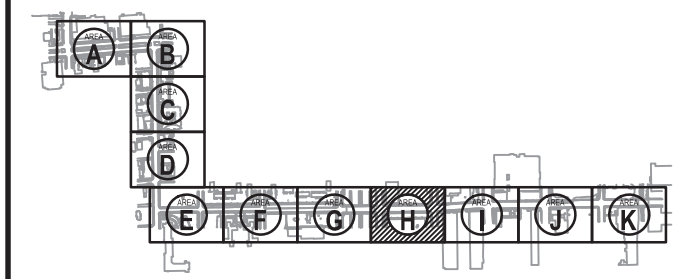
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50% CONSTRUCTION DOCUMENTS	0	NOV 05, 2012

SEALS AND SIGNATURES

KEY PLAN



**UTILITY PLAN - AREA H**

DRAWING TITLE  
 UTILITY PLAN - AREA H

GRAPHIC SCALE  
 TAKES PRECEDENCE  
 FULL SIZE SCALE (24x36)  
 1" = 20'-0"  
 24708.003

PROJECT NUMBER  
**M-C7.8**

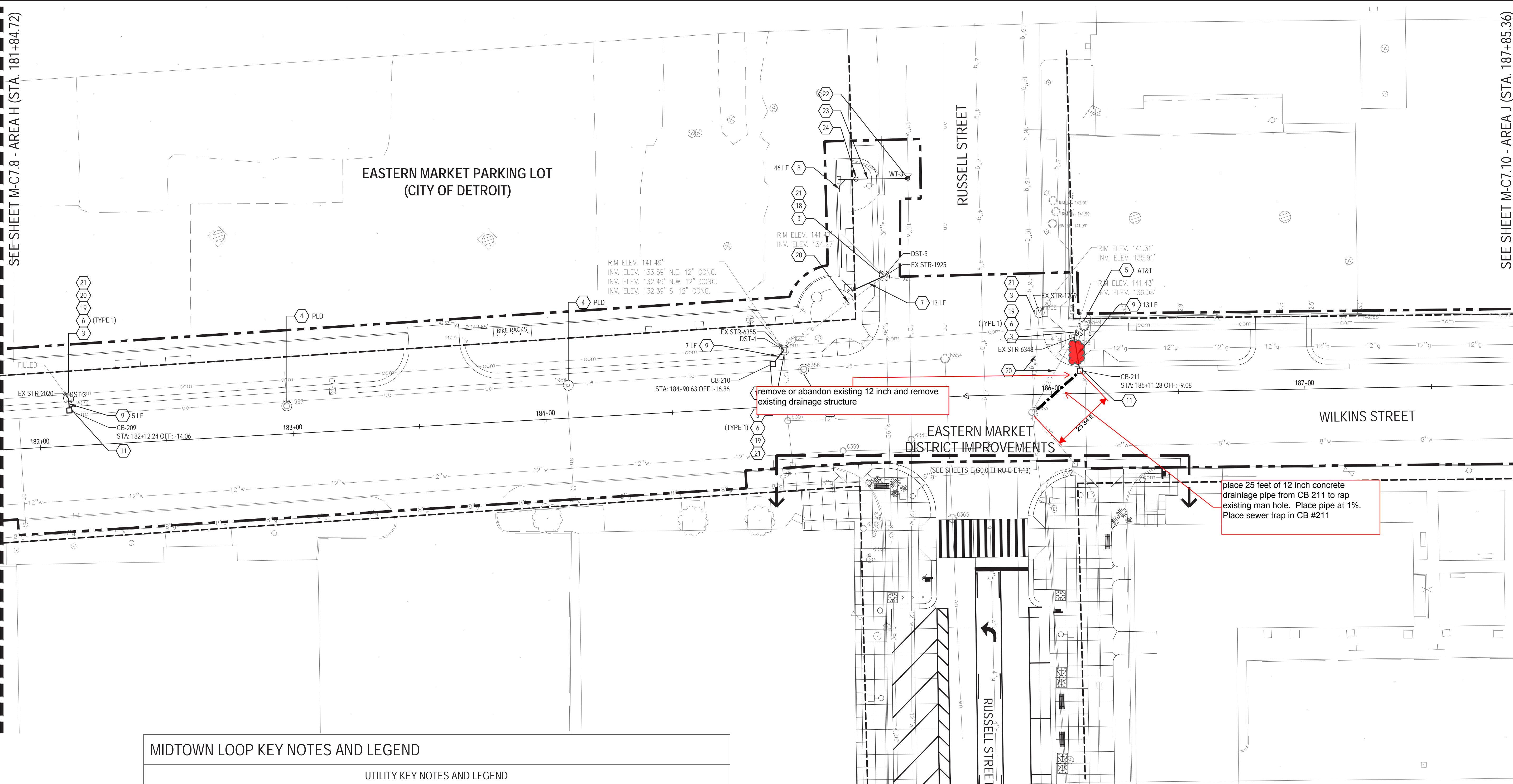
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SEE SHEET M-C7.10 - AREA J (STA. 187+85.36)



**Midtown Loop Phase IV**  
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 Detroit, Michigan

**MDOT**  
 Michigan Department of Transportation

Owners:  
  
 City of Detroit

**MIDTOWN DETROIT**  
 Midtown Detroit, Inc.

**SMITHGROUP JJR**

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SEALS AND SIGNATURES

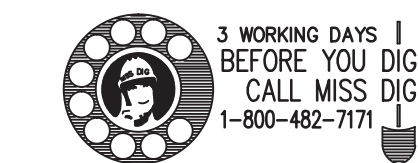
KEY PLAN

Project North

MIDTOWN LOOP KEY NOTES AND LEGEND			
UTILITY KEY NOTES AND LEGEND			
---	CONSTRUCTION LIMIT LINE	13	HYDRANT, RELOCATE, CASE 1, MODIFIED
---	RIGHT - OF - WAY LINE	14	HYDRANT, RELOCATE, CASE 2, MODIFIED
---	MATCH LINE	15	WATER SHUTOFF, ADJ, MODIFIED
---	HORIZONTAL ALIGNMENT	16	TEE
---	ADJACENT PROPERTY	17	SEWER TAP, MODIFIED
1	SEWER REM, LESS THAN 24 INCH	18	DR STRUCTURE, TAP, 1-1/2 INCH
2	DR STRUCTURE, REM	19	DR STRUCTURE, TAP, 12 INCH
3	DR STRUCTURE COVER, ADJ, CASE 1, MODIFIED	20	DR STRUCTURE LEAD, CLEANING, MODIFIED
4	DR STRUCTURE COVER, ELEC, ADJ	21	DR STRUCTURE, CLEANING
5	STRUCTURE COVER, OTHER, ADJ (N.I.C.)	22	WATER SERV, TAP
6	DR STRUCTURE COVER, MODIFIED	23	1" TYPE "K" HARD COPPER PIPE (REFER TO IRRIGATION PLANS)
7	DRAINLINE, 1-1/2 INCH, SCH 40 PVC	24	20" MANHOLE BOX AND COVER (REFER TO IRRIGATION PLANS)
8	WATERLINE, 1 INCH, TYPE K, COPPER		
9	SEWER, CL A, 12 INCH, TR DET B, MODIFIED		
10	WATER MAIN, DI, 6 INCH, TR DET G		
11	DR STRUCTURE, 24 INCH DIA	1	
12	DR STRUCTURE, 48 INCH DIA	2	

M-C7.9 - UTILITY		
QTY	UNIT	ITEM DESCRIPTION
0	Ft	Sewer, Rem, Less than 24 inch
0	Ea	Dr Structure, Rem
5	Ea	Dr Structure Cover, Adj, Case 1, Modified
0	Ea	Dr Structure Cover, Type 1, Modified
3	Ea	Dr Structure Cover, Type 2, Modified
0	Ea	Dr Structure Cover, Type 4, Modified
3	Ea	Structure Cover, Elec, Adj
25	Ft	Sewer, Cl A, 12 inch, Tr Det B, Modified
1	Ea	Dr Structure, Tap, 1 1/2 inch
3	Ea	Dr Structure, Tap, 12 inch
0	Ea	Sewer Tap, Modified
3	Ea	Dr Structure, 24 inch dia
0	Ea	Dr Structure, 48 inch dia
216	Ft	Dr Structure Lead, Cleaning, 12 inch
4	Ea	Dr Structure, Cleaning
0	Ea	Sewer Cleanout, Cover, Adj
0	Ea	Hydrant, Relocate, Case 1, Modified
0	Ea	Hydrant, Relocate, Case 2, Modified
0	Ea	Water Shutoff, Adj, Modified
0	Ft	Water Main, Di, 6 inch, Tr Det G
1	Ea	Water Serv, Tap
46	Ft	Water Line, 1 inch, Type K, Copper
13	Ft	Drainline, 1 1/2 inch, Sch 40 PVC
3	Ea	Erosion Control, Inlet Protection, Fabric Drop

NOTE:  
 1. REFER TO DRAWING G0.6 FOR UTILITY NOTES.  
 2. LIGHT POLE, FOUNDATION REMOVALS AND UTILITY POLE RELOCATIONS SHOWN ON THESE PLANS ARE FOR REFERENCE ONLY. REFER TO ELECTRICAL PLANS FOR SPECIFIC REMOVALS AND PAY ITEM QUANTITIES.



DRAWING TITLE  
**UTILITY PLAN - AREA I**

GRAPHIC SCALE  
 TAKES PRECEDENCE  
 FULL SIZE SCALE (24x36)  
 1"=20'-0"  
 24708.003

PROJECT NUMBER  
**M-C7.9**

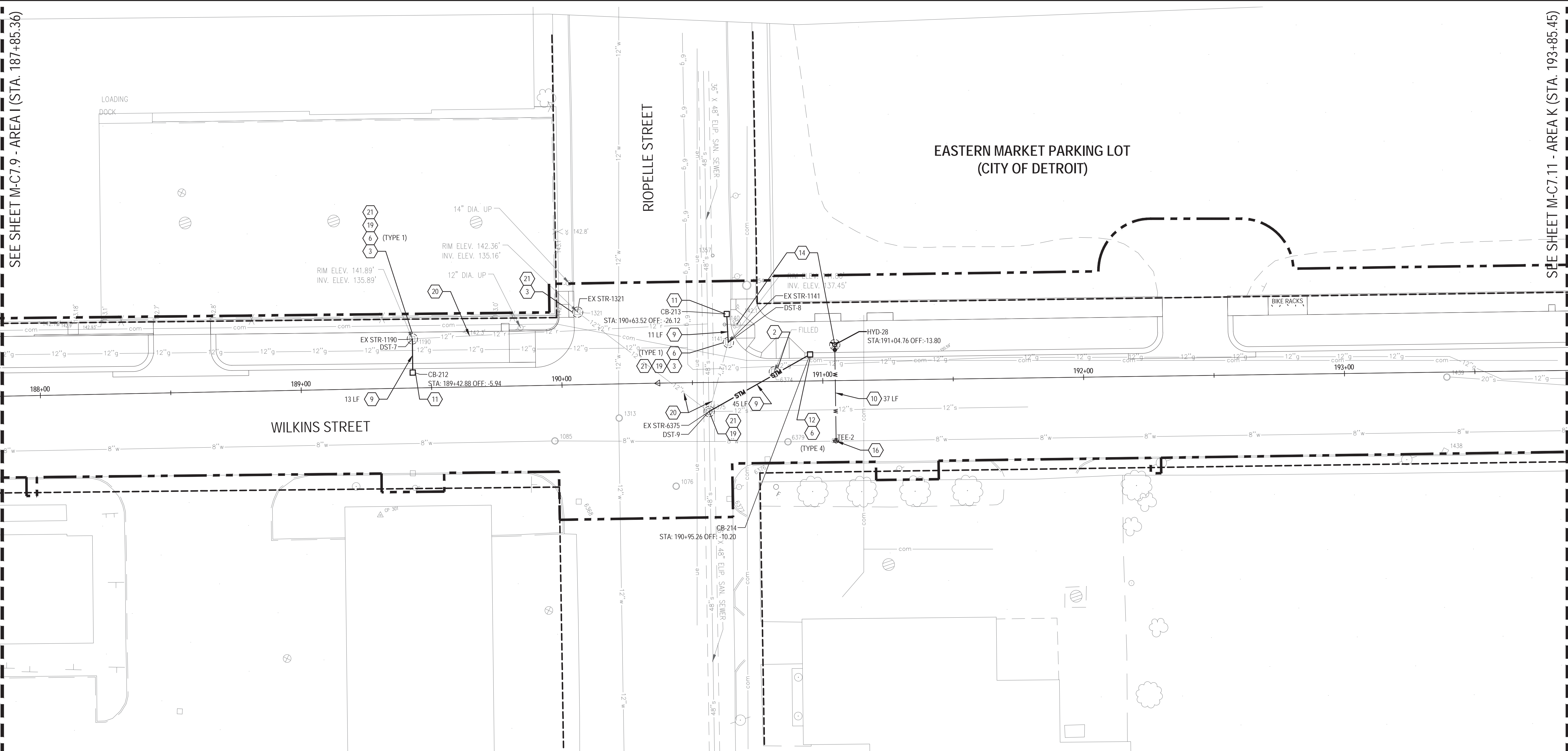
DRAWING NUMBER  
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SEE SHEET M-C7.9 - AREA I (STA. 187+85.36)

SEE SHEET M-C7.11 - AREA K (STA. 193+85.45)



# Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



Midtown Detroit, Inc.

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ANN ARBOR, MI 48104  
734.662.4457  
www.smithgroupjjr.com

ISSUED FOR	REV	DATE
BIDDING DOCUMENTS	5	MAY 21, 2013
BIDDING DOCUMENTS	4	MAY 02, 2013
100% CONSTRUCTION DOCUMENTS	3	APR 01, 2013
GRADE INSPECTION	2	JAN 30, 2013
80% CONSTRUCTION DOCUMENTS	1	JAN 07, 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05, 2012

SEALS AND SIGNATURES

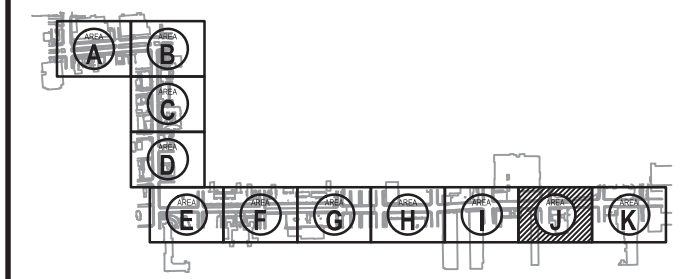
### MIDTOWN LOOP KEY NOTES AND LEGEND

UTILITY KEY NOTES AND LEGEND			
---	CONSTRUCTION LIMIT LINE	13	HYDRANT, RELOCATE, CASE 1, MODIFIED
---	RIGHT - OF - WAY LINE	14	HYDRANT, RELOCATE, CASE 2, MODIFIED
---	MATCH LINE	15	WATER SHUTOFF, ADJ, MODIFIED
171+00	HORIZONTAL ALIGNMENT	16	TEE
---	ADJACENT PROPERTY	17	SEWER TAP, MODIFIED
1	SEWER REM, LESS THAN 24 INCH	18	DR STRUCTURE, TAP, 1-1/2 INCH
2	DR STRUCTURE, REM	19	DR STRUCTURE, TAP, 12 INCH
3	DR STRUCTURE COVER, ADJ, CASE 1, MODIFIED	20	DR STRUCTURE LEAD, CLEANING, MODIFIED
4	STRUCTURE COVER, ELEC, ADJ	21	DR STRUCTURE, CLEANING
5	STRUCTURE COVER, OTHER, ADJ (N.I.C.)	22	WATER SERV, TAP
6	DR STRUCTURE COVER, MODIFIED	23	1" TYPE "K" HARD COPPER PIPE (REFER TO IRRIGATION PLANS)
7	DRAINLINE, 1-1/2 INCH, SCH 40 PVC	24	20" MANHOLE BOX AND COVER (REFER TO IRRIGATION PLANS)
8	WATERLINE, 1 INCH, TYPE K, COPPER		
9	SEWER, CL A, 12 INCH, TR DET B, MODIFIED		
10	WATER MAIN, DI, 6 INCH, TR DET G		
11	DR STRUCTURE, 24 INCH DIA	1	
12	DR STRUCTURE, 48 INCH DIA	2	

### M-C7.10 - UTILITY

QTY	UNIT	ITEM DESCRIPTION
0	Ft	Sewer, Rem, Less than 24 inch
1	Ea	Dr Structure, Rem
3	Ea	Dr Structure Cover, Adj, Case 1, Modified
0	Ea	Dr Structure Cover, Type 1, Modified
2	Ea	Dr Structure Cover, Type 2, Modified
1	Ea	Dr Structure Cover, Type 4, Modified
0	Ea	Structure Cover, Elec, Adj
69	Ft	Sewer, Cl A, 12 inch, Tr Det B, Modified
0	Ea	Dr Structure, Tap, 1 1/2 inch
3	Ea	Dr Structure, Tap, 12 inch
0	Ea	Sewer Tap, Modified
2	Ea	Dr Structure, 24 inch dia
1	Ea	Dr Structure, 48 inch dia
203	Ft	Dr Structure Lead, Cleaning, 12 inch
4	Ea	Dr Structure, Cleaning
0	Ea	Sewer Cleanout Cover, Adj
0	Ea	Hydrant, Relocate, Case 1, Modified
1	Ea	Hydrant, Relocate, Case 2, Modified
0	Ea	Water Shutoff, Adj, Modified
37	Ft	Water Main, Di, 6 inch, Tr Det G
0	Ea	Water Serv, Tap
0	Ft	Water Line, 1 inch, Type K, Copper
0	Ft	Drainline, 1 1/2 inch, Sch 40 PVC
3	Ea	Erosion Control, Inlet Protection, Fabric Drop

NOTE:  
1. REFER TO DRAWING G0.6 FOR UTILITY NOTES.  
2. LIGHT POLE, FOUNDATION REMOVALS AND UTILITY POLE RELOCATIONS SHOWN ON THESE PLANS ARE FOR REFERENCE ONLY. REFER TO ELECTRICAL PLANS FOR SPECIFIC REMOVALS AND PAY ITEM QUANTITIES.



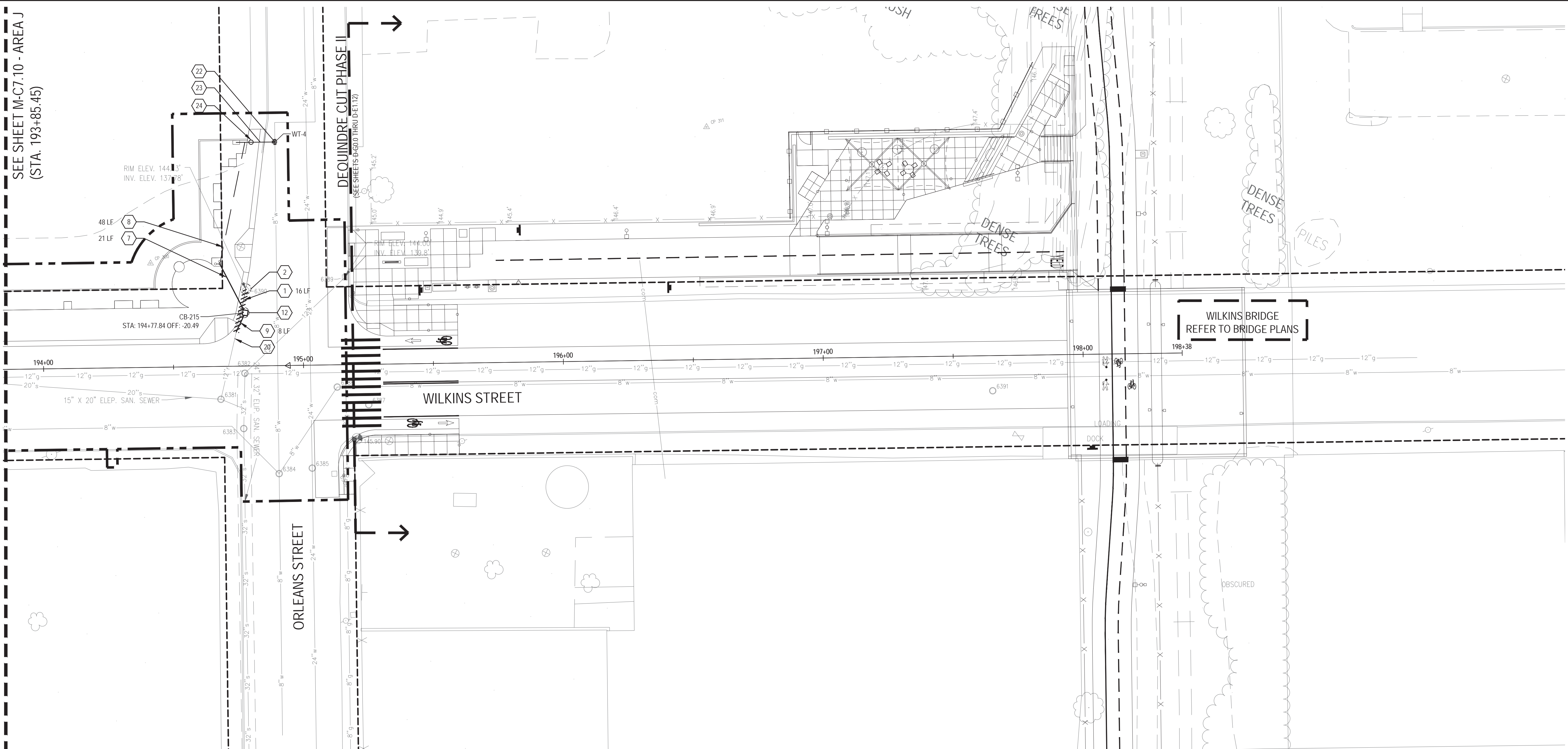
### UTILITY PLAN - AREA J

GRAPHIC SCALE TAKES PRECEDENCE  
FULL SIZE SCALE (24x36)  
24708.003

PROJECT NUMBER  
**M-C7.10**  
DRAWING NUMBER  
321 of 497



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SEE SHEET M-C7.10 - AREA J  
(STA. 193+85.45)

MIDTOWN LOOP KEY NOTES AND LEGEND

UTILITY KEY NOTES AND LEGEND				
---	CONSTRUCTION LIMIT LINE	13	⊕	_HYDRANT, RELOCATE, CASE 1, MODIFIED
---	RIGHT - OF - WAY LINE	14	⊕	_HYDRANT, RELOCATE, CASE 2, MODIFIED
---	MATCH LINE	15	⊕	_WATER SHUTOFF, ADJ, MODIFIED
171+00	HORIZONTAL ALIGNMENT	16	⊕	TEE
↔	ADJACENT PROPERTY	17	⊕	_SEWER TAP, MODIFIED
1	SEWER REM. LESS THAN 24 INCH	18	⊕	DR STRUCTURE, TAP, 1-1/2 INCH
2	DR STRUCTURE, REM	19	⊕	DR STRUCTURE, TAP, 12 INCH
3	_DR STRUCTURE COVER, ADJ, CASE 1, MODIFIED	20	⊕	_DR STRUCTURE LEAD, CLEANING, MODIFIED
4	_STRUCTURE COVER, ELEC, ADJ	21	⊕	_DR STRUCTURE, CLEANING
5	STRUCTURE COVER, OTHER, ADJ (N.I.C.)	22	⊕	WATER SERV, TAP
6	_DR STRUCTURE COVER, MODIFIED	23	⊕	1" TYPE 'K' HARD COPPER PIPE (REFER TO IRRIGATION PLANS)
7	_DRAINLINE, 1-1/2 INCH, SCH 40 PVC	24	⊕	20" MANHOLE BOX AND COVER (REFER TO IRRIGATION PLANS)
8	_WATERLINE, 1 INCH, TYPE K, COPPER			
9	_STM			
10	_W			
11	DR STRUCTURE, 24 INCH DIA	1	⊕	
12	DR STRUCTURE, 48 INCH DIA	2	⊕	

**M-C7.11 - UTILITY**

QTY	UNIT	ITEM DESCRIPTION
16	Ft	Sewer, Rem, Less than 24 inch
1	Ea	Dr Structure, Rem
0	Ea	_Dr Structure Cover, Adj, Case 1, Modified
0	Ea	_Dr Structure Cover, Type 1, Modified
0	Ea	_Dr Structure Cover, Type 2, Modified
0	Ea	_Dr Structure Cover, Type 4, Modified
0	Ea	_Structure Cover, Elec, Adj
8	Ft	Sewer, Cl A, 12 inch, Tr Det B, Modified
0	Ea	_Dr Structure, Tap, 1 1/2 inch
0	Ea	Dr Structure, Tap, 12 inch
0	Ea	_Sewer Tap, Modified
0	Ea	Dr Structure, 24 inch dia
1	Ea	Dr Structure, 48 inch dia
43	Ft	Dr Structure Lead, Cleaning, 12 inch
0	Ea	Dr Structure, Cleaning
0	Ea	_Sewer Cleanout, Cover, Adj
0	Ea	_Hydrant, Relocate, Case 1, Modified
0	Ea	_Hydrant, Relocate, Case 2, Modified
0	Ea	_Water Shutoff, Adj, Modified
0	Ft	Water Main, Di, 6 inch, Tr Det G
1	Ea	Water Serv, Tap
48	Ft	Water Line, 1 inch, Type K, Copper
21	Ft	Drainline, 1 1/2 inch, Sch 40 PVC
1	Ea	Erosion Control, Inlet Protection, Fabric Drop

NOTE:  
1. REFER TO DRAWING G0.6 FOR UTILITY NOTES.  
2. LIGHT POLE, FOUNDATION REMOVALS AND UTILITY POLE RELOCATIONS SHOWN ON THESE PLANS ARE FOR REFERENCE ONLY. REFER TO ELECTRICAL PLANS FOR SPECIFIC REMOVALS AND PAY ITEM QUANTITIES.

Midtown Loop  
Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



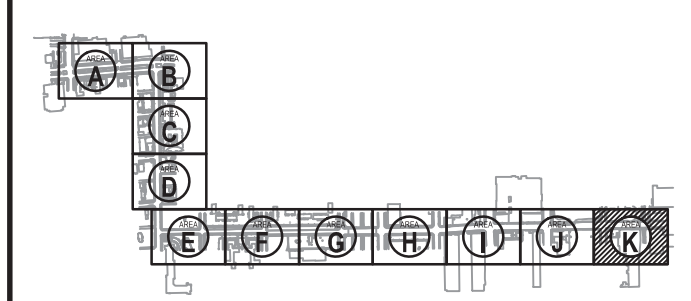
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100% CONSTRUCTION DOCUMENTS	3	APR 01, 2013
GRADE INSPECTION	2	JAN 30, 2013
80% CONSTRUCTION DOCUMENTS	1	JAN 07, 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05, 2012

SEALS AND SIGNATURES

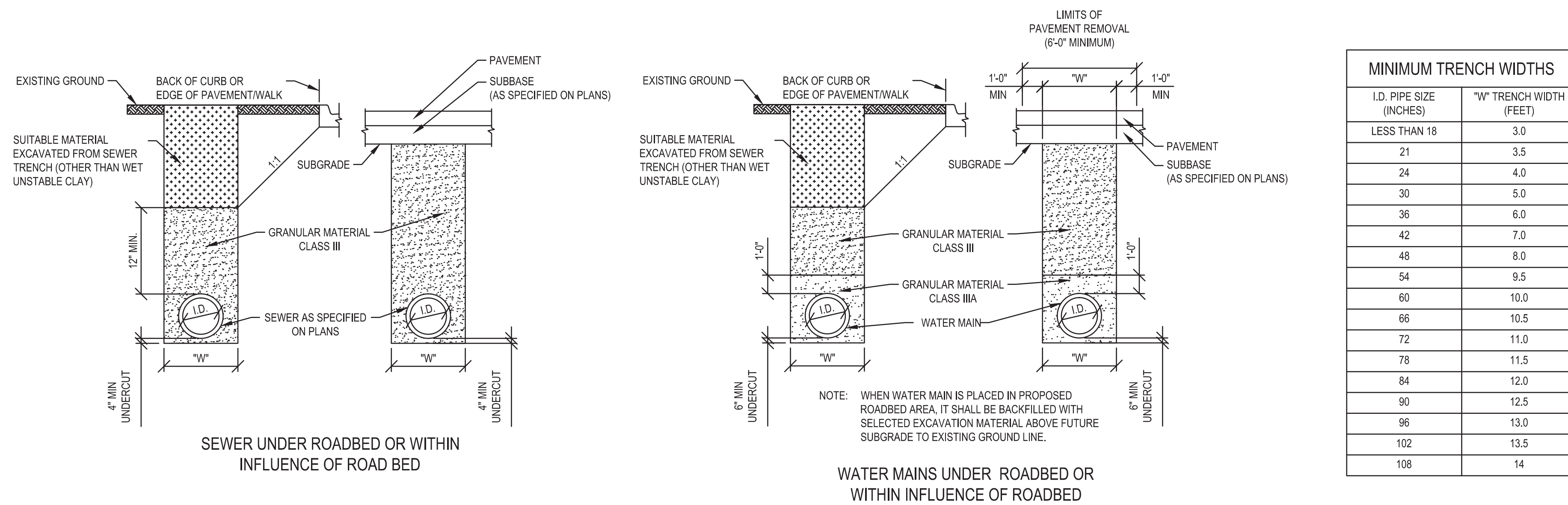


DRAWING TITLE  
UTILITY PLAN - AREA K

GRAPHIC SCALE  
TAKES PRECEDENCE  
FULL SIZE SCALE (24x36)  
1" = 20'-0"  
24708.003

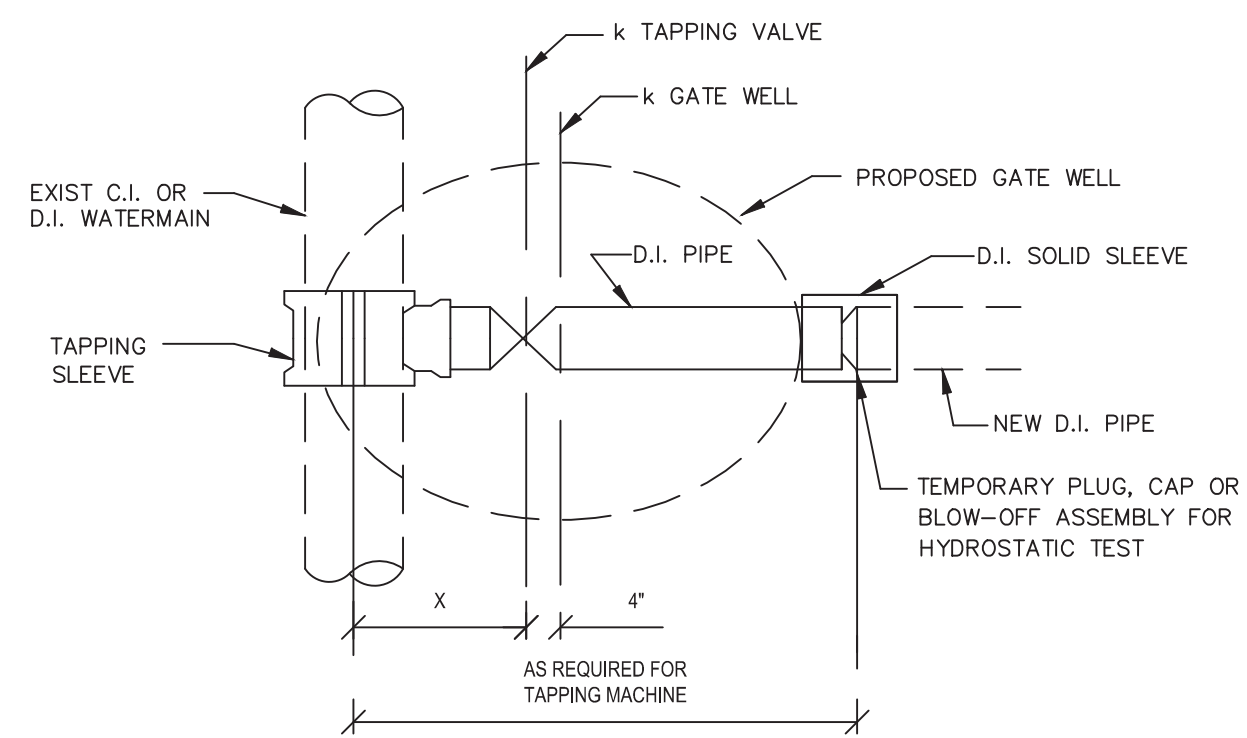
PROJECT NUMBER  
DRAWING NUMBER  
M-C7.11  
322 of 497





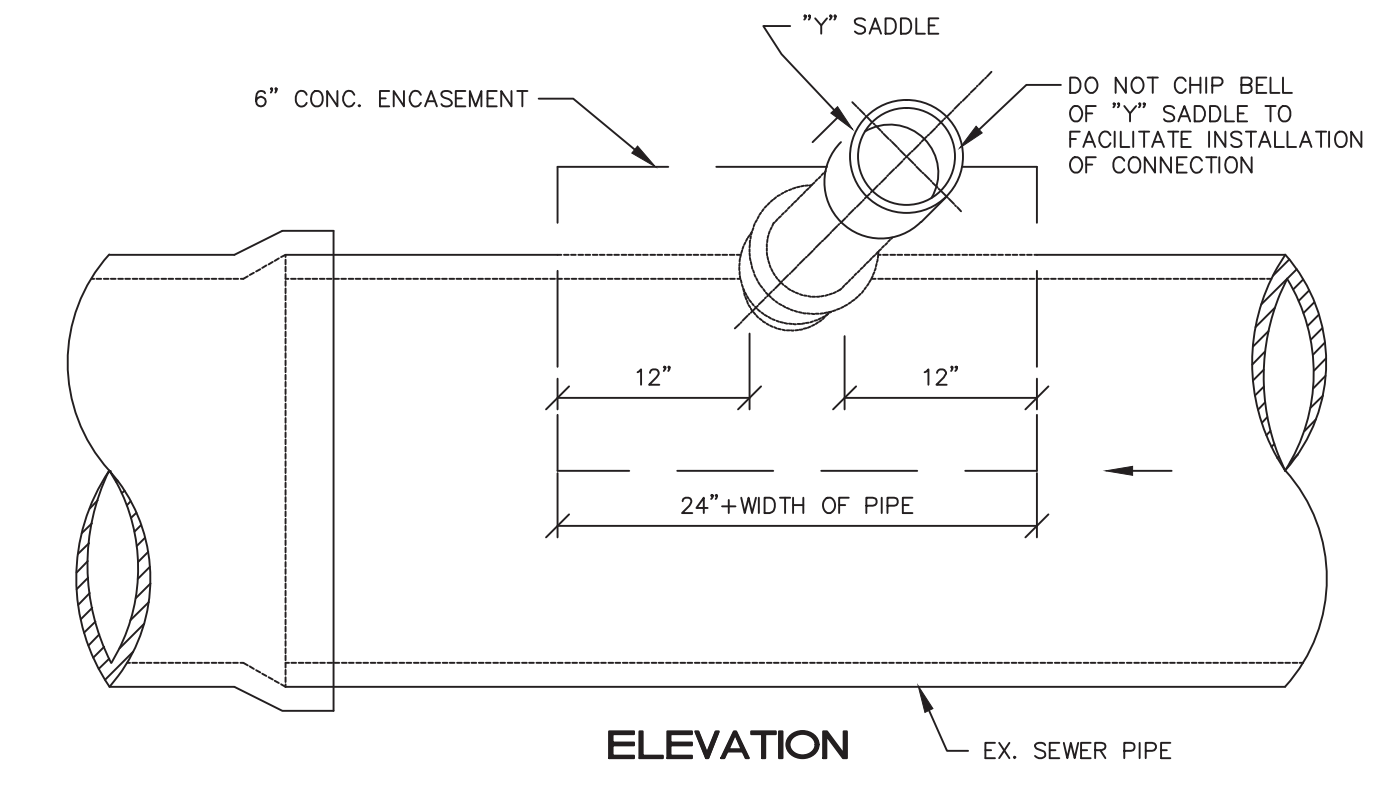
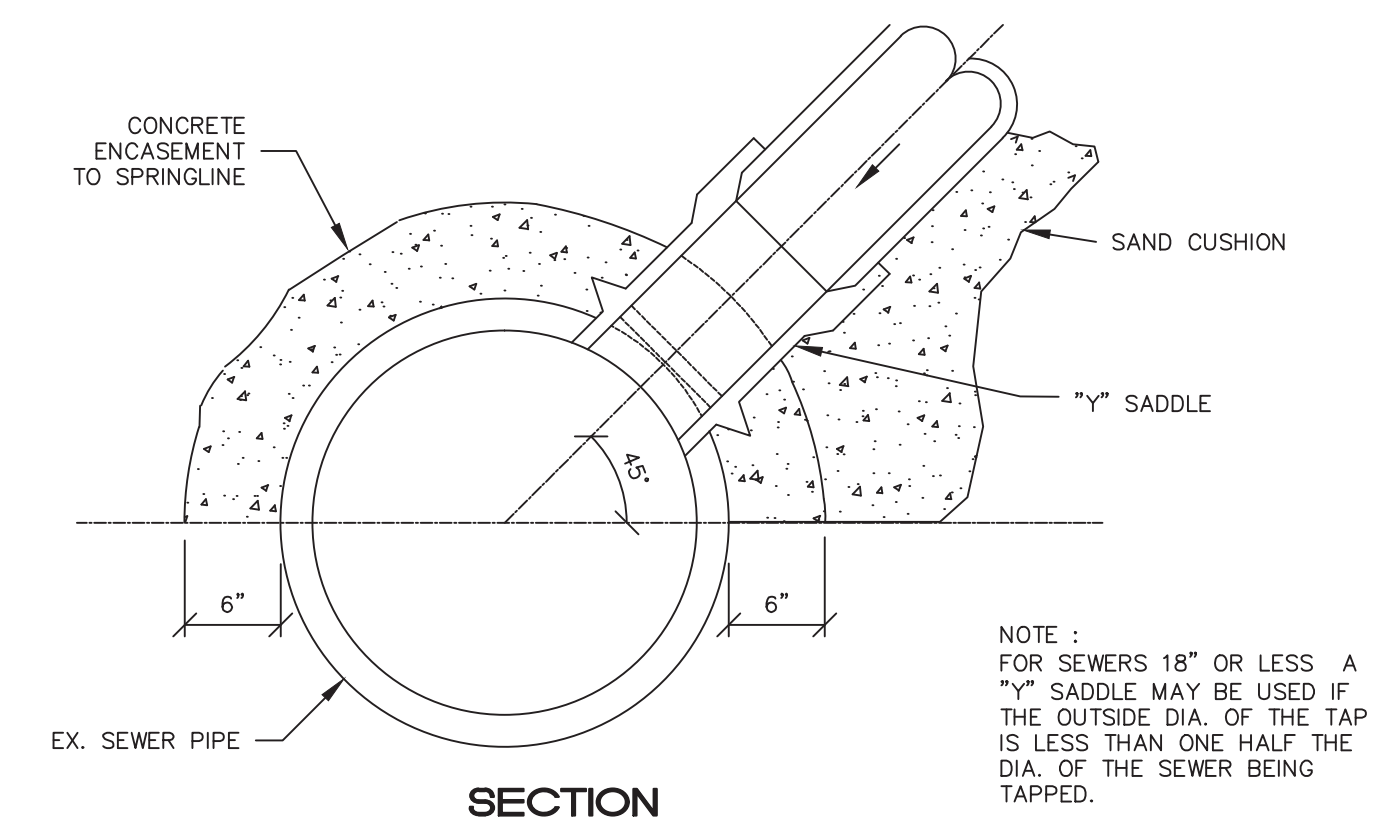
MINIMUM TRENCH WIDTHS	
I.D. PIPE SIZE (INCHES)	"W" TRENCH WIDTH (FEET)
LESS THAN 18	3.0
21	3.5
24	4.0
30	5.0
36	6.0
42	7.0
48	8.0
54	9.5
60	10.0
66	10.5
72	11.0
78	11.5
84	12.0
90	12.5
96	13.0
102	13.5
108	14

**1 UTILITY TRENCHES** SECTION NTS



SIZE OF S.V. (SLEEVE & VALVE)	X
12"x12"	20 7/8"
12"x8"	21"
12"x6"	19 5/8"
8"x8"	18 3/4"
8"x6"	17 3/8"
6"x6"	16 3/8"

**2 WATER SERV. TAP** SECTION NTS



**3 SEWER TAP, MODIFIED** SECTION NTS

**Midtown Loop Phase IV**

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



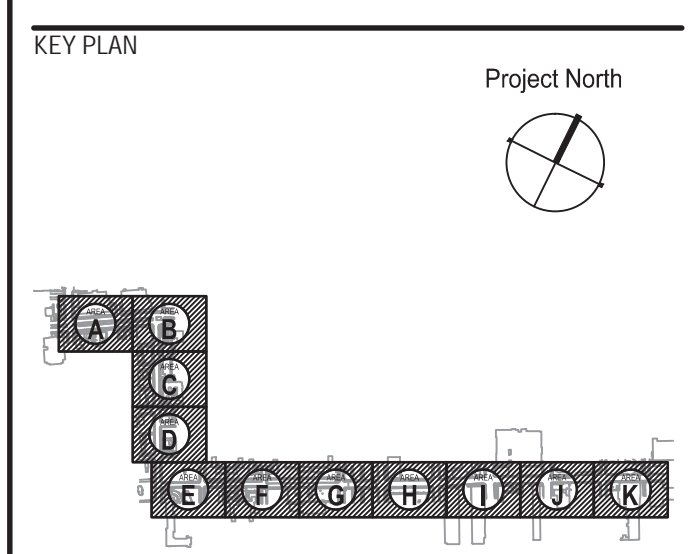
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BIDDING DOCUMENTS	4	MAY 02, 2013
100% CONSTRUCTION DOCUMENTS	3	APR 01, 2013
GRADE INSPECTION	2	JAN 30, 2013
80% CONSTRUCTION DOCUMENTS	1	JAN 07, 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05, 2012

SEALS AND SIGNATURES



**UTILITY DETAILS 1**

GRAPHIC SCALE AS NOTED  
TAKES PRECEDENCE  
FULL SIZE SCALE (24x36)  
24708.003

PROJECT NUMBER  
**M-C7.12**  
DRAWING NUMBER  
323 of 497



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# Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



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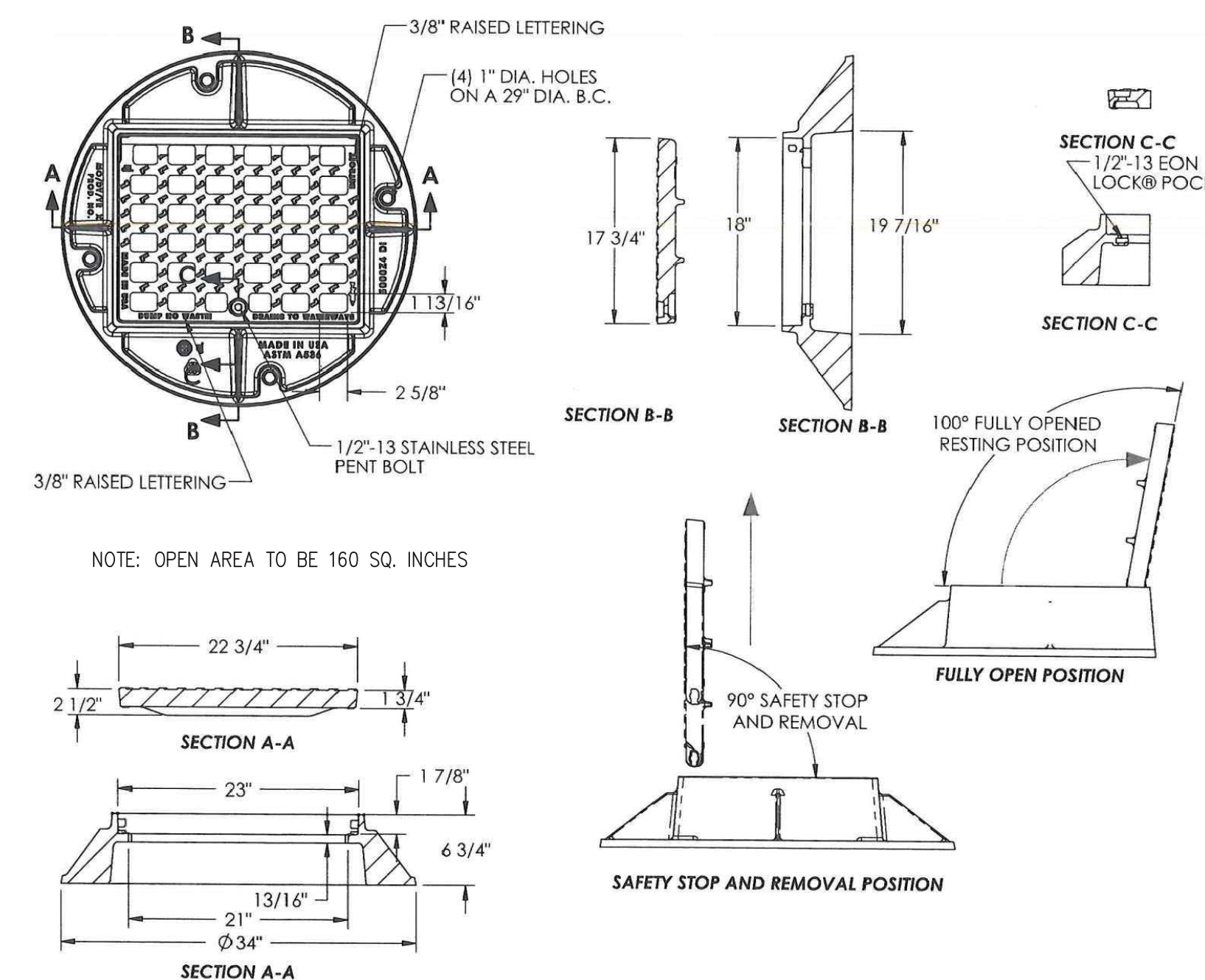
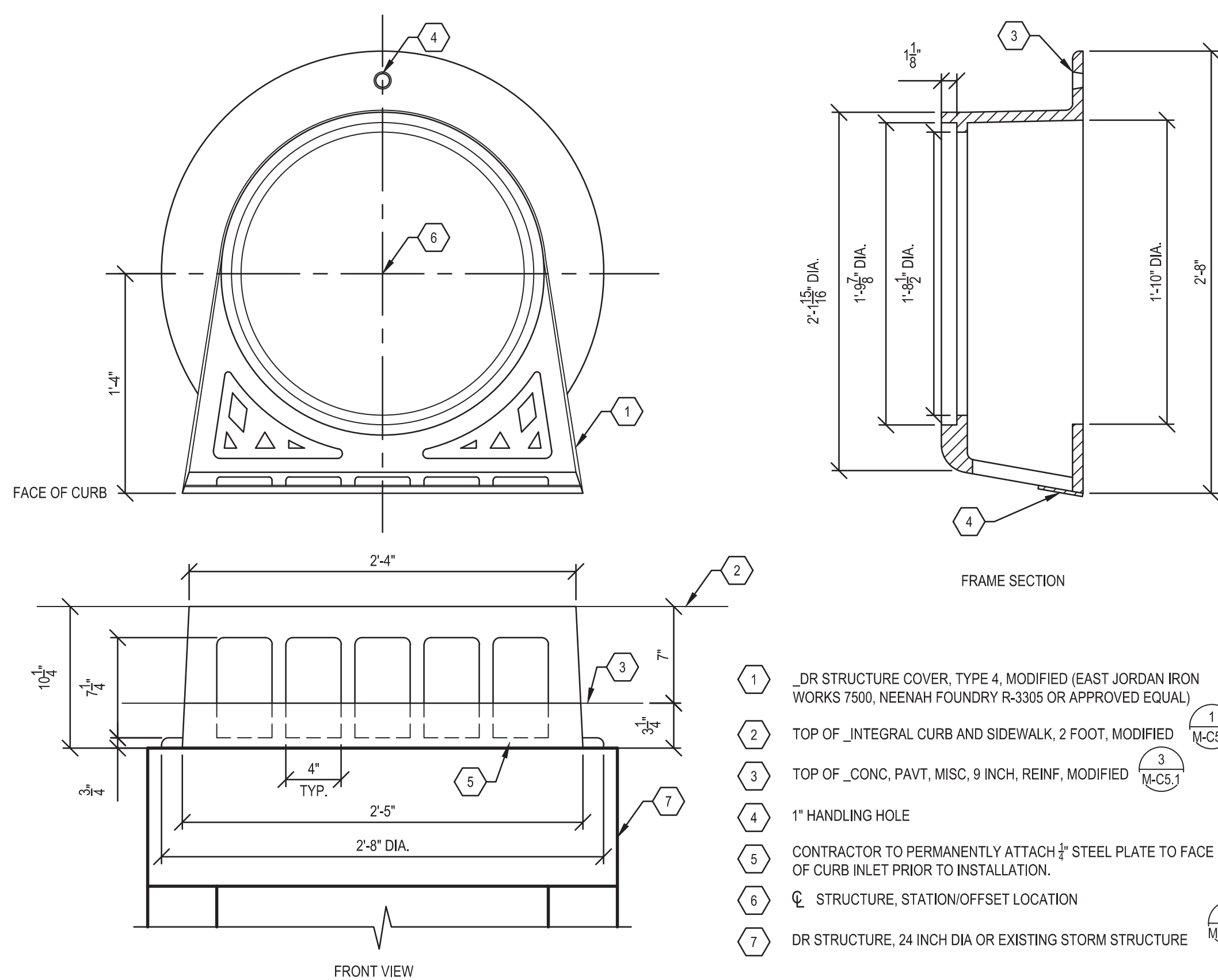
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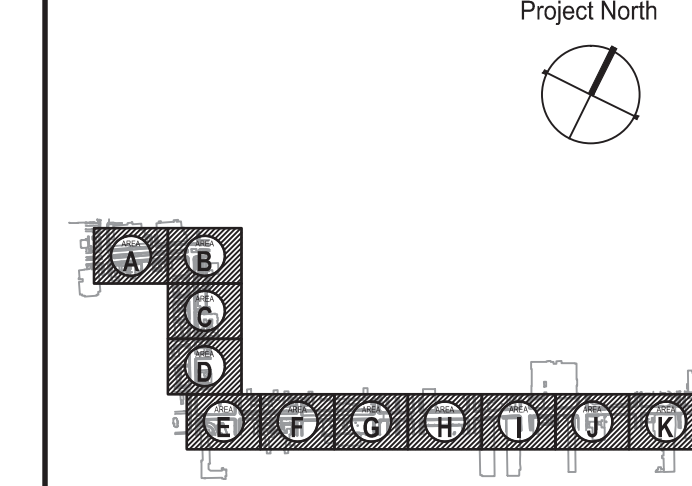
1 DR STRUCTURE COVER, TYPE 4, MODIFIED  
SECTION AND PLAN NTS

2 DR STRUCTURE COVER, TYPE 2, MODIFIED  
SECTION AND PLAN NTS

ISSUED FOR	REV	DATE
BIDDING DOCUMENTS	5	MAY 21, 2013
BIDDING DOCUMENTS	4	MAY 02, 2013
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50% CONSTRUCTION DOCUMENTS	0	NOV 05, 2012

SEALS AND SIGNATURES

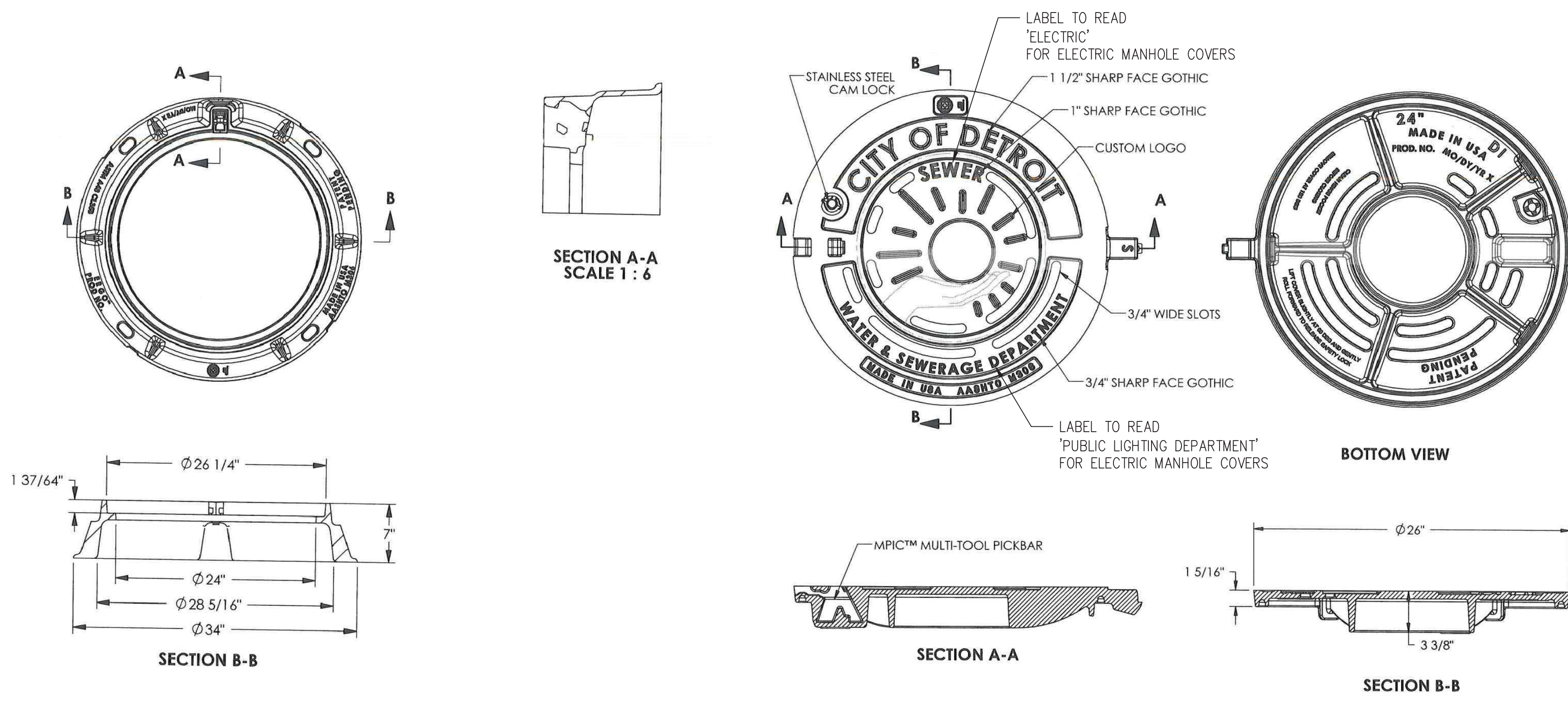
KEY PLAN



DRAWING TITLE  
UTILITY DETAILS 2

GRAPHIC SCALE TAKES PRECEDENCE FULL SIZE SCALE (24x36)  
AS NOTED  
24708.003

PROJECT NUMBER  
M-C7.13  
DRAWING NUMBER



3 DR STRUCTURE COVER, TYPE 1, MODIFIED  
SECTION AND PLAN NTS



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# Midtown Loop Phase IV

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Detroit, Michigan



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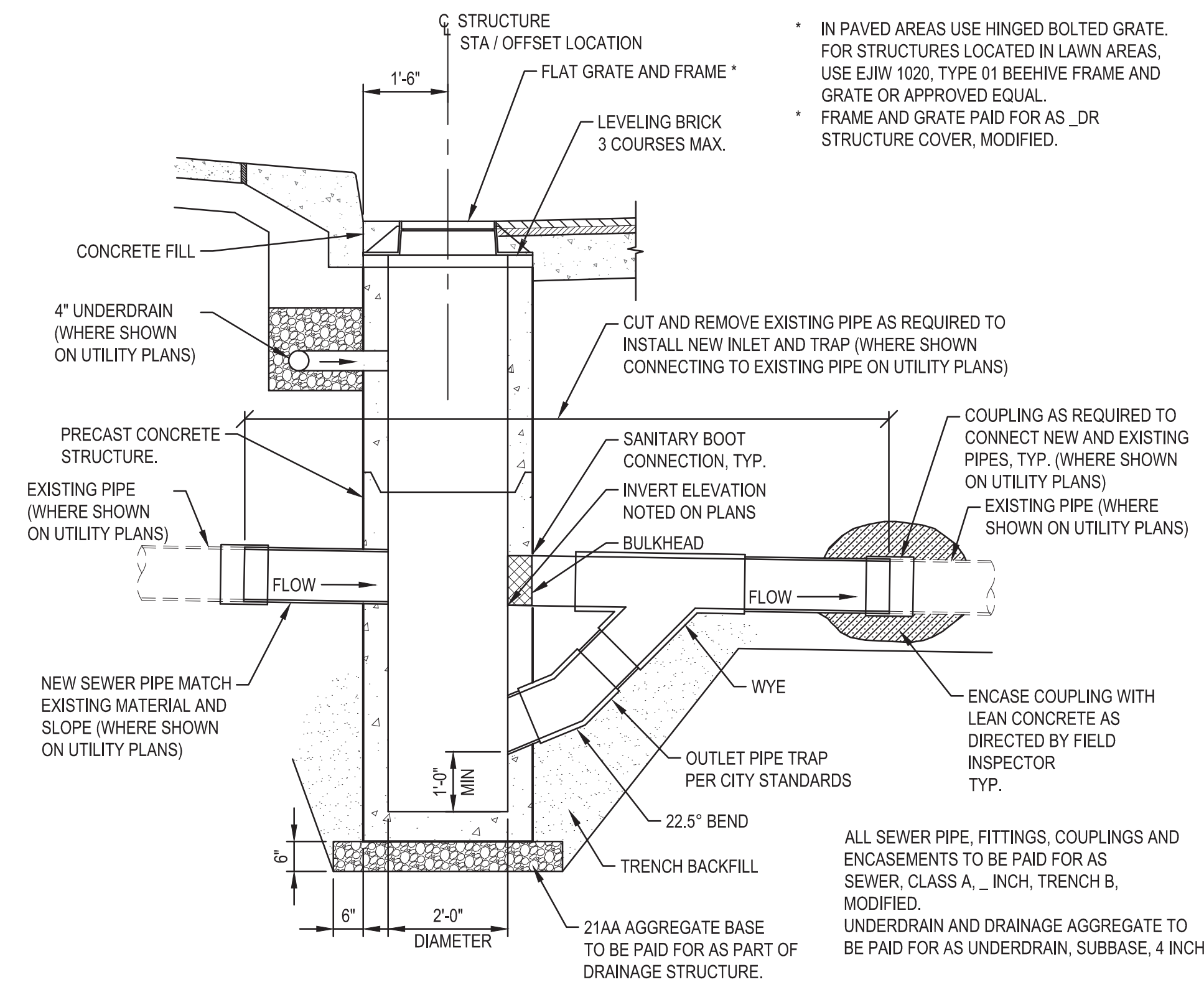
City of Detroit



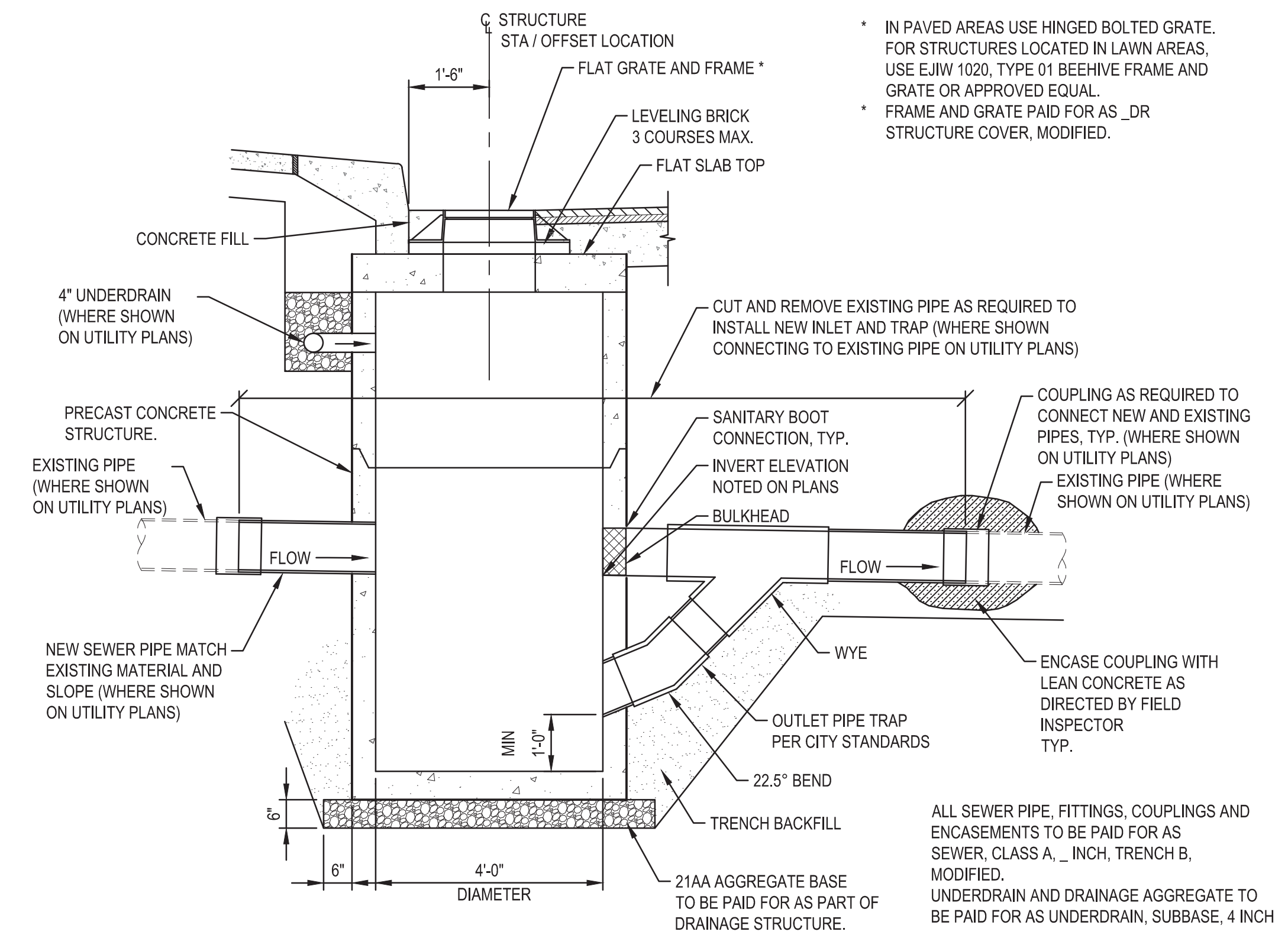
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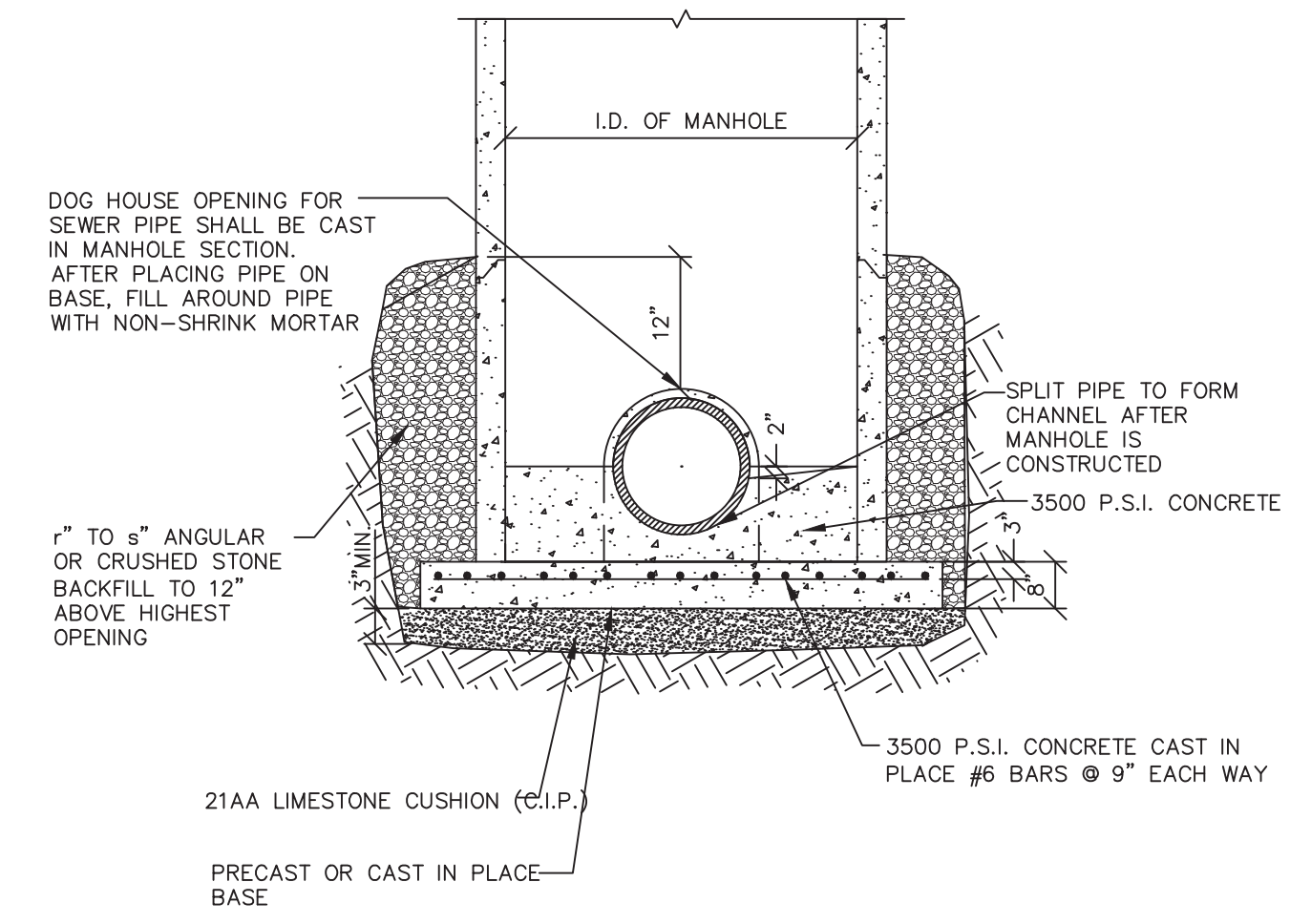
**1** DR STRUCTURE, 24 INCH DIA  
PLAN NTS



**2** DR STRUCTURE, 48 INCH DIA  
PLAN NTS

DOG HOUSE OPENING SIZES	
SEWER SIZE	MAX OPENING
8" - 10"	17 1/2"
12" - 15"	20"
18" - 24"	30"

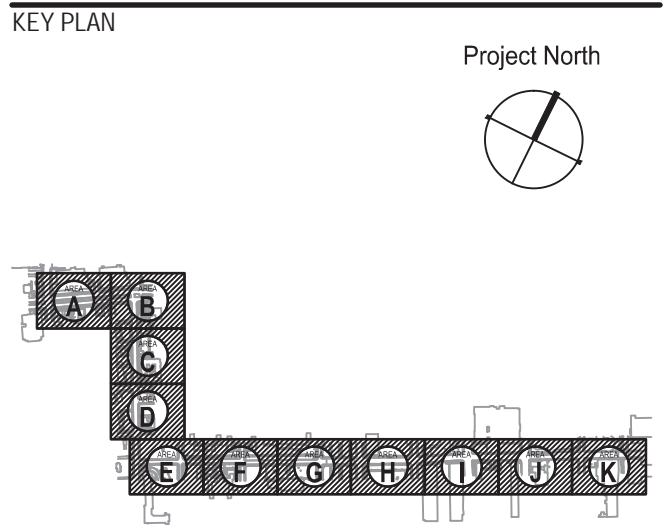
MANHOLE SIZING	
SEWER PIPE SIZE	MANHOLE DIAMETER
24"	4'-0"
33"	5'-0"
42"	6'-0"



**3** MANHOLE CONSTRUCTED OVER EXISTING SEWER  
SECTION NTS

ISSUED FOR	REV	DATE
BIDDING DOCUMENTS	5	MAY 21 2013
BIDDING DOCUMENTS	4	MAY 02 2013
100% CONSTRUCTION DOCUMENTS	3	APR 01 2013
GRADE INSPECTION	2	JAN 30 2013
80% CONSTRUCTION DOCUMENTS	1	JAN 07 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05 2012

SEALS AND SIGNATURES



DRAWING TITLE  
**UTILITY DETAILS 3**

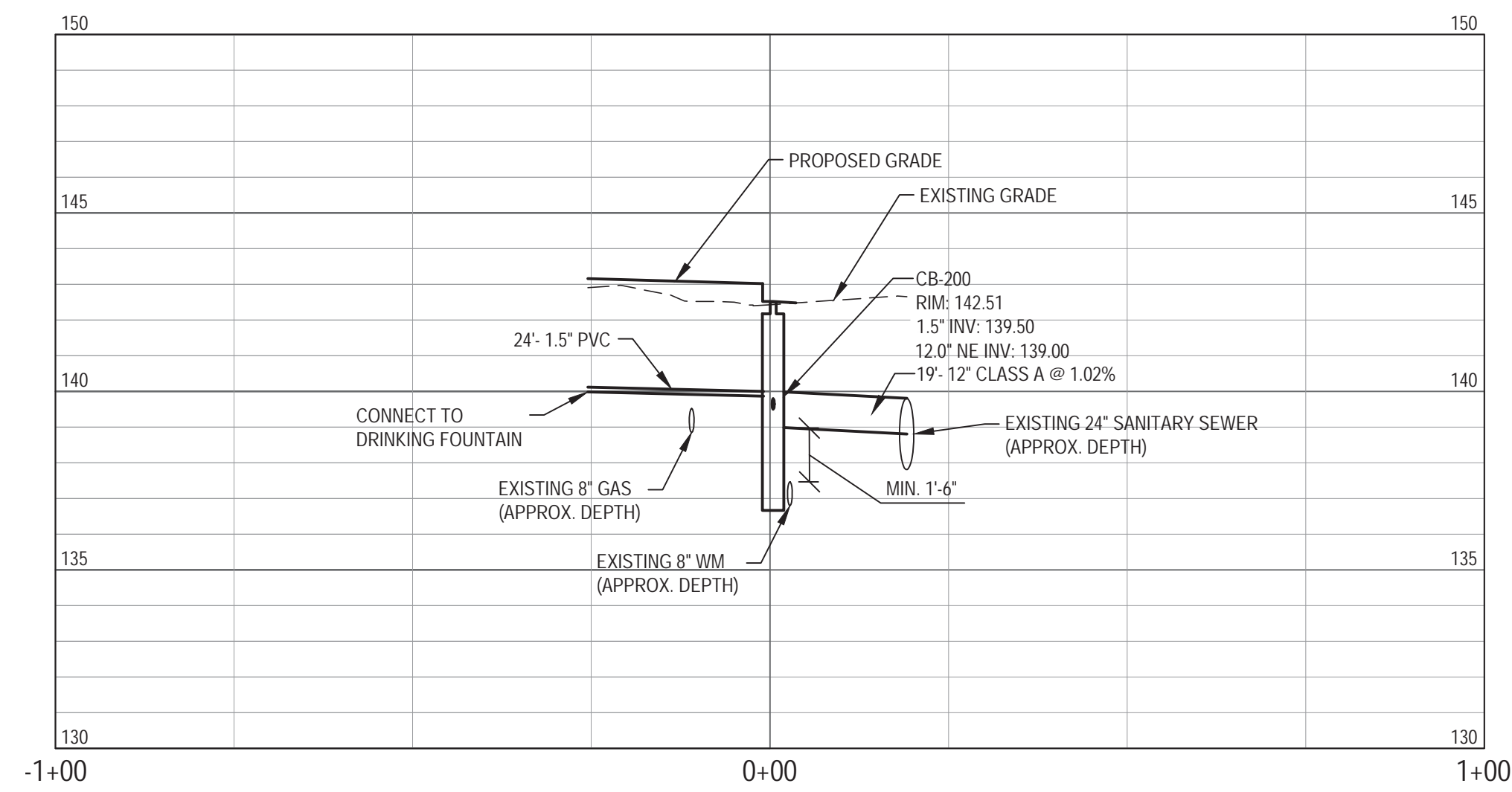
GRAPHIC SCALE  
TAKES PRECEDENCE  
FULL SIZE SCALE (24x36)  
AS NOTED  
24708.003

PROJECT NUMBER  
**M-C7.14**  
DRAWING NUMBER  
325 of 497

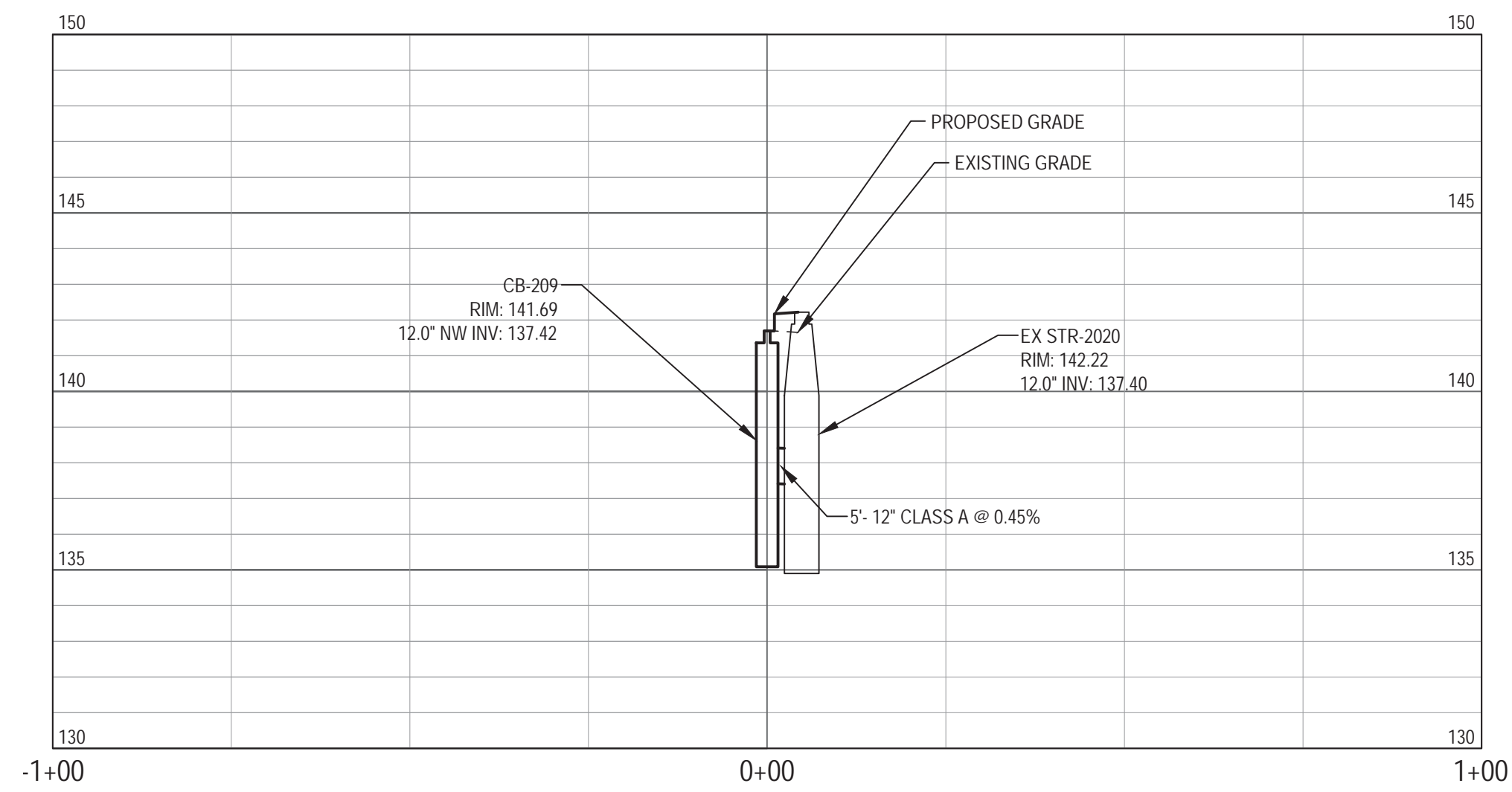


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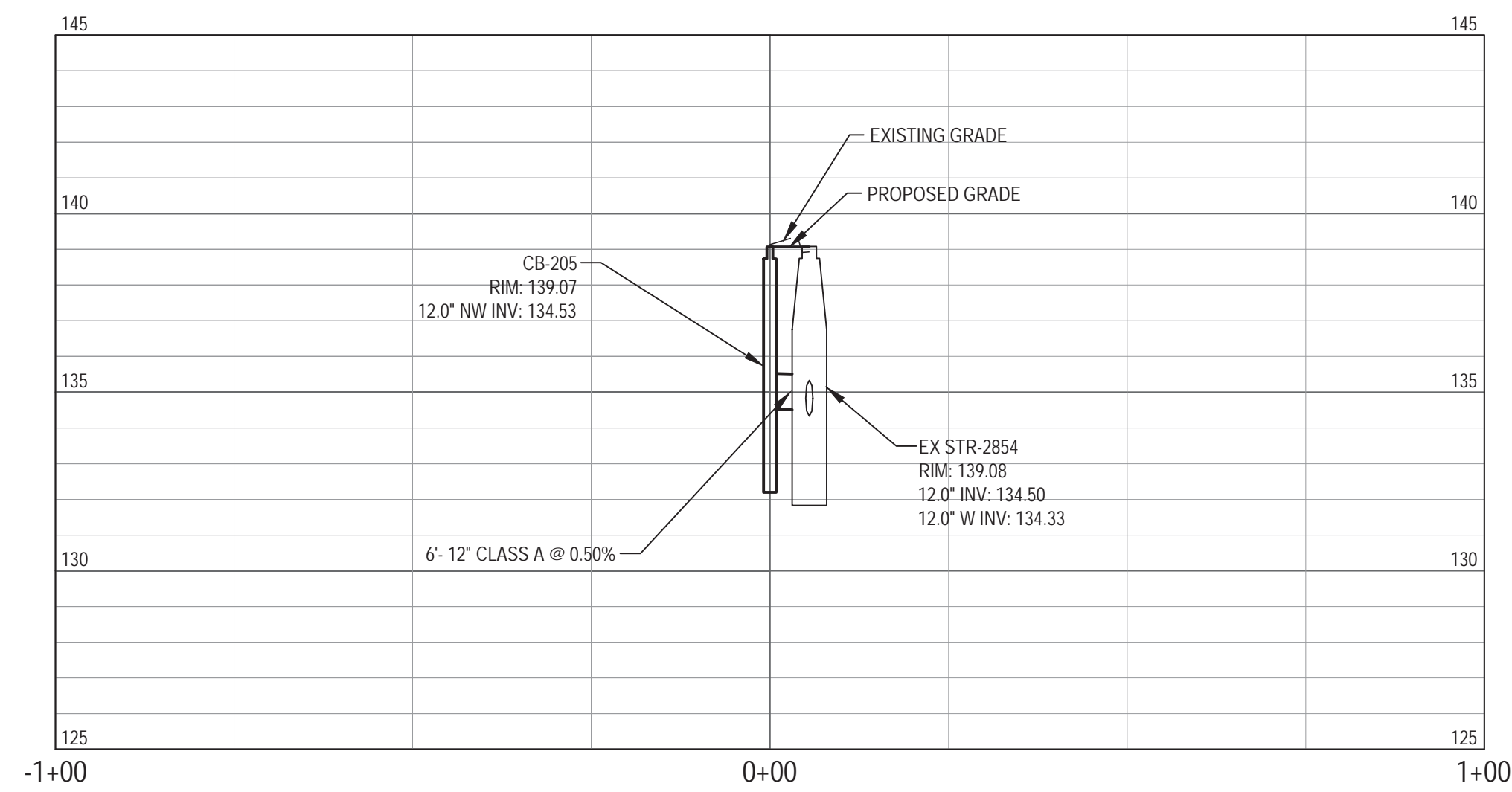
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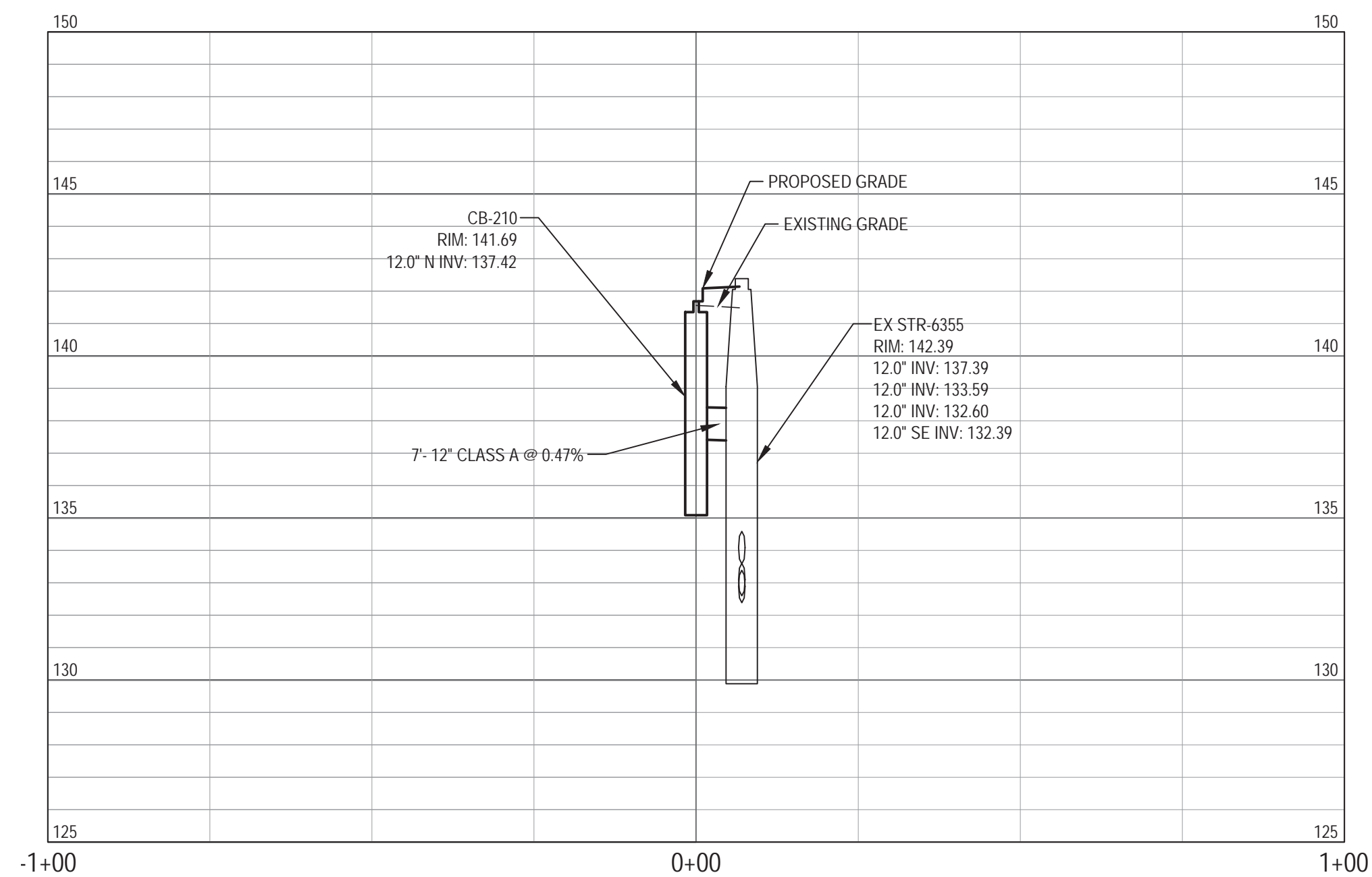
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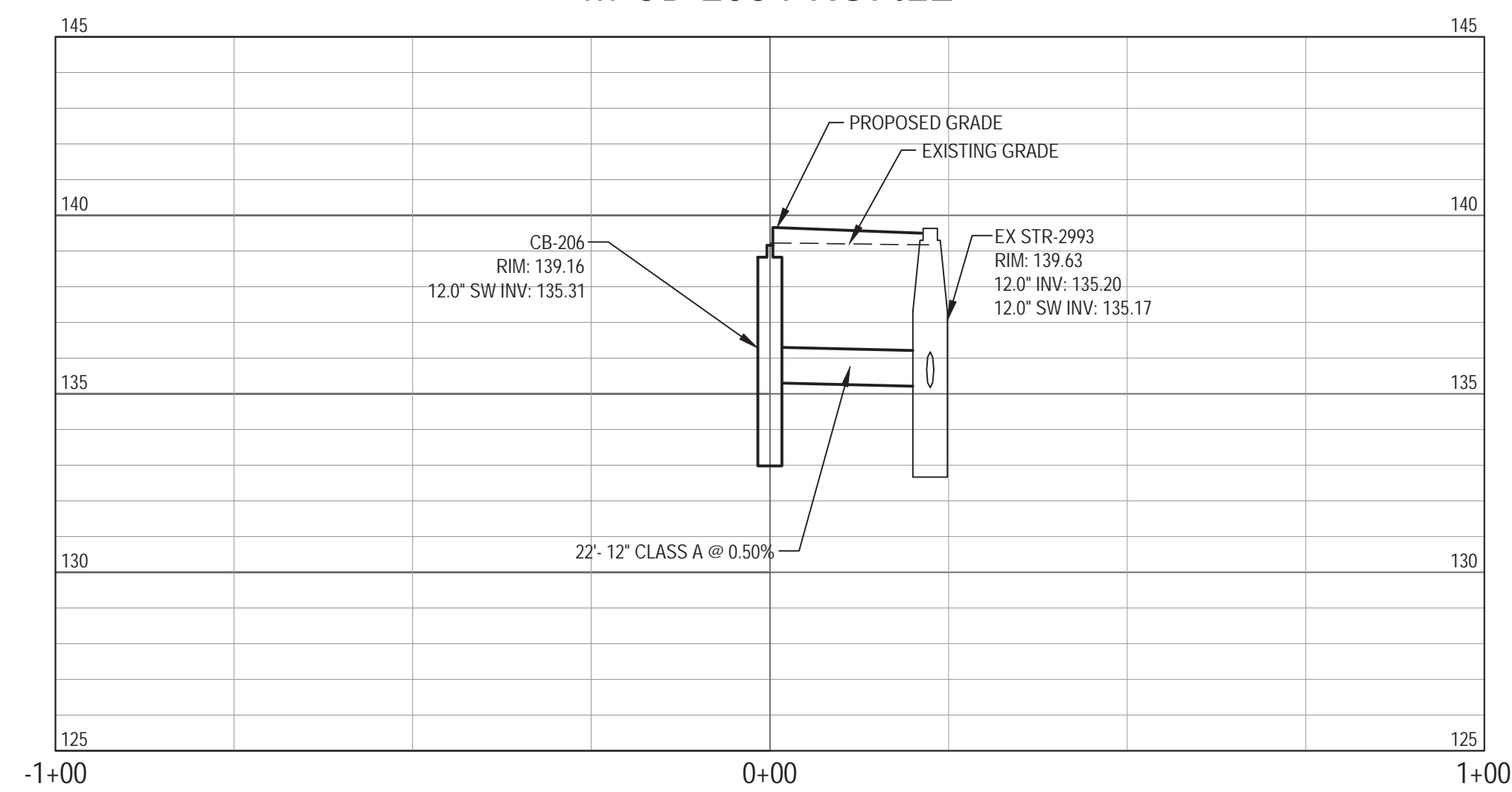
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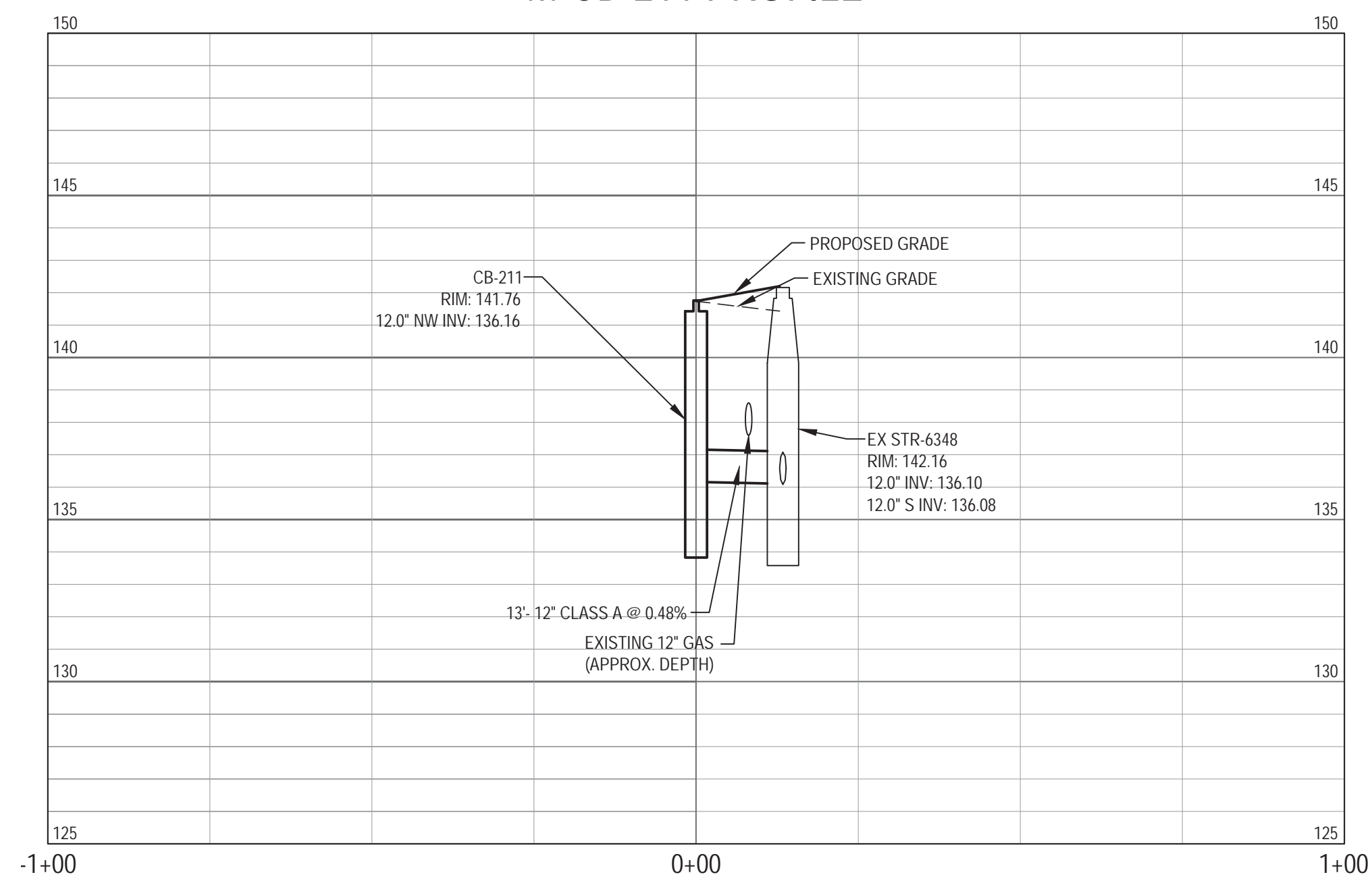
M-CB-210 PROFILE



M-CB-206 PROFILE



M-CB-211 PROFILE



Midtown Loop  
Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



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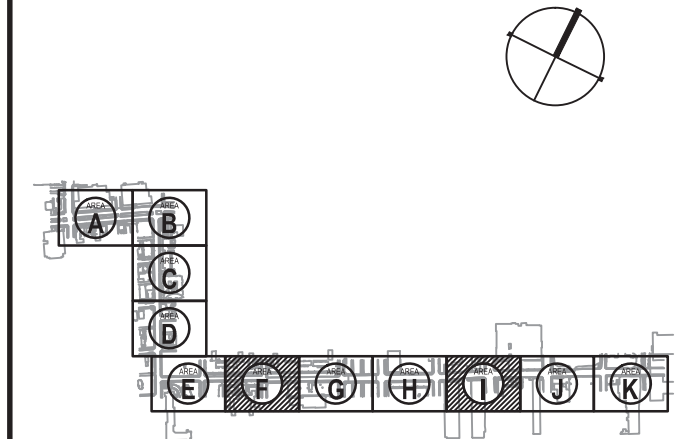
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80% CONSTRUCTION DOCUMENTS	1	JAN 07, 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05, 2012

SEALS AND SIGNATURES

KEY PLAN

Project North



DRAWING TITLE

UTILITY PROFILES 1

1" = 20'-0" (HORZ.)  
GRAPHIC SCALE  
TAKES PRECEDENCE  
FULL SIZE SCALE (24x36)

1" = 4'-0" (VERT.)

24708.003

PROJECT NUMBER

M-C7.15

DRAWING NUMBER



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# Midtown Loop Phase IV

Midtown Loop  
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Owners:



City of Detroit



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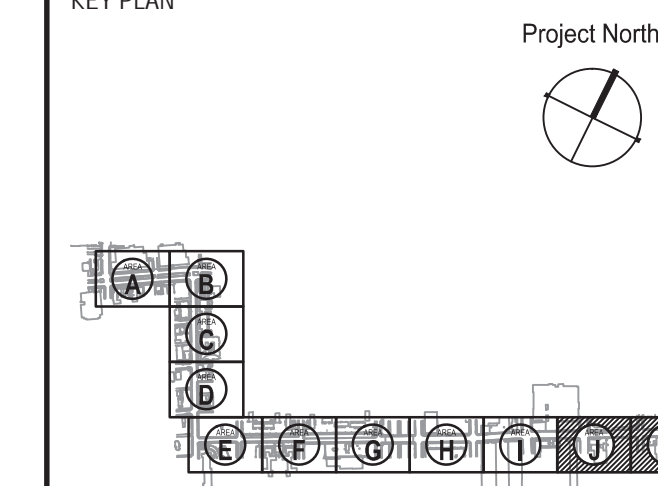
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ISSUED FOR	REV	DATE
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80% CONSTRUCTION DOCUMENTS	2	JAN 30, 2013
50% CONSTRUCTION DOCUMENTS	1	JAN 07, 2013
	0	NOV 05, 2012

SEALS AND SIGNATURES

KEY PLAN



DRAWING TITLE

UTILITY PROFILES 2

1" = 20'-0" (HORZ.)  
GRAPHIC SCALE  
TAKES PRECEDENCE  
FULL SIZE SCALE (24x36)  
1" = 4'-0" (VERT.)

PROJECT NUMBER

24708.003

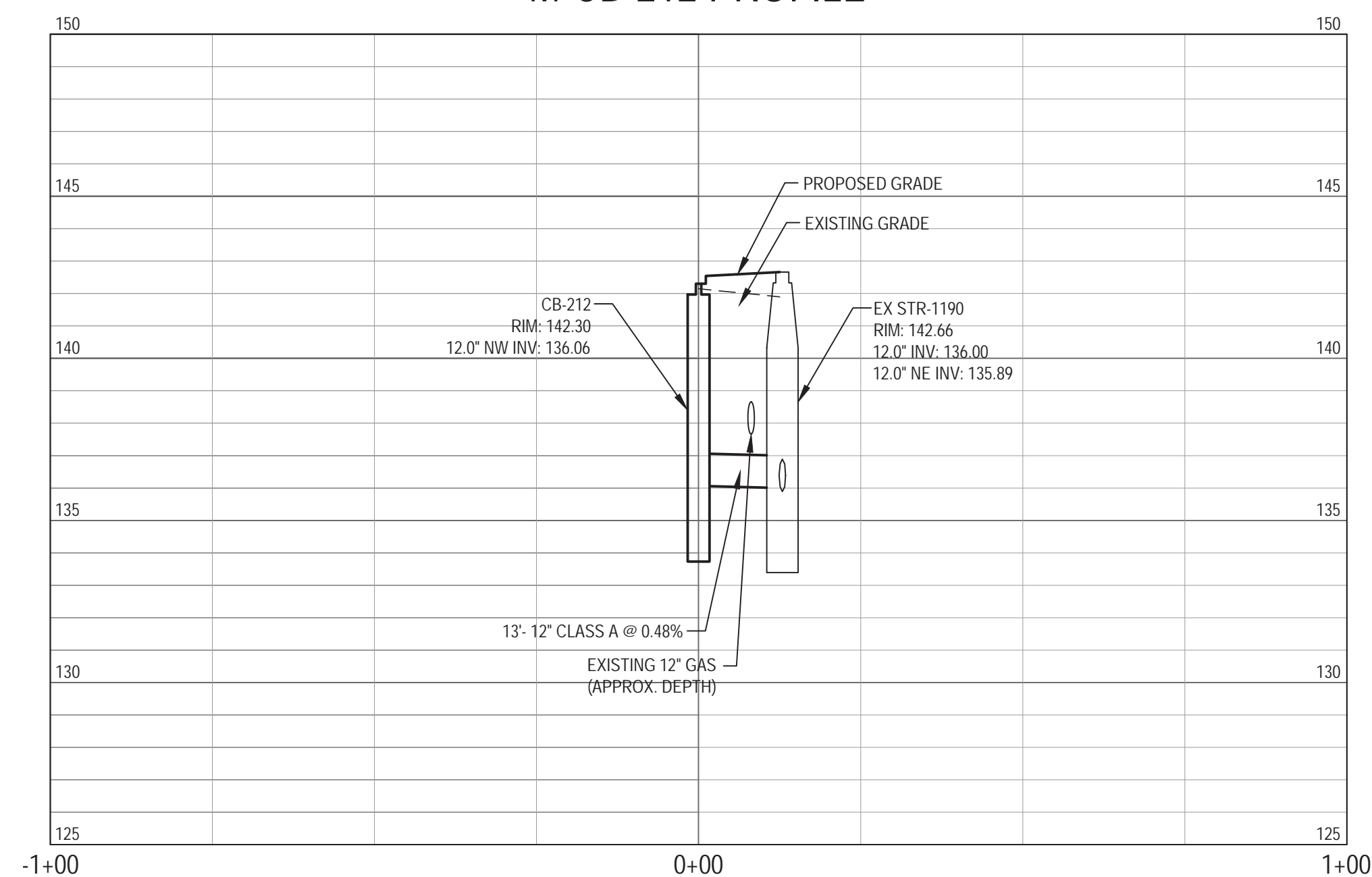
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M-C7.16

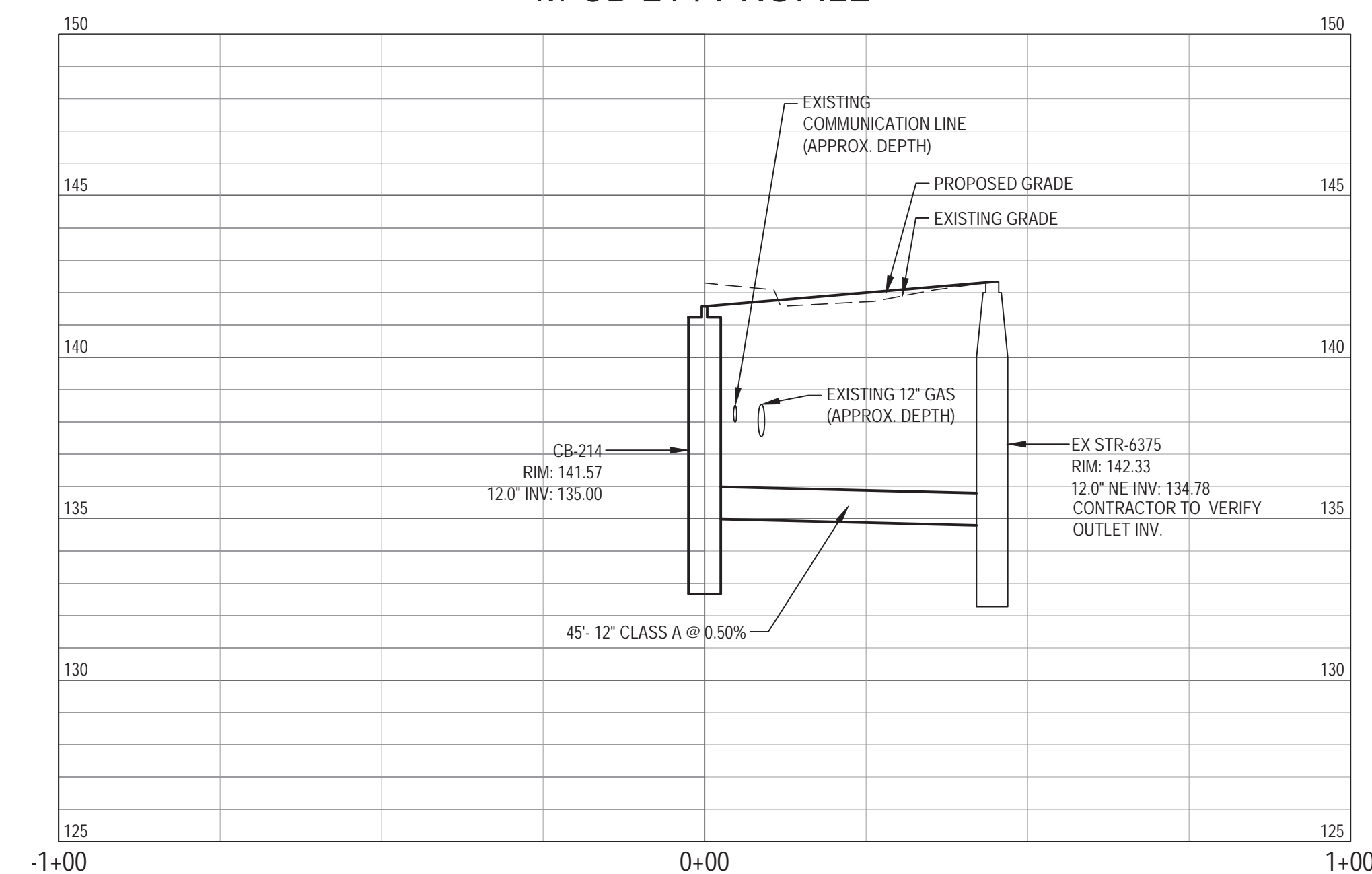


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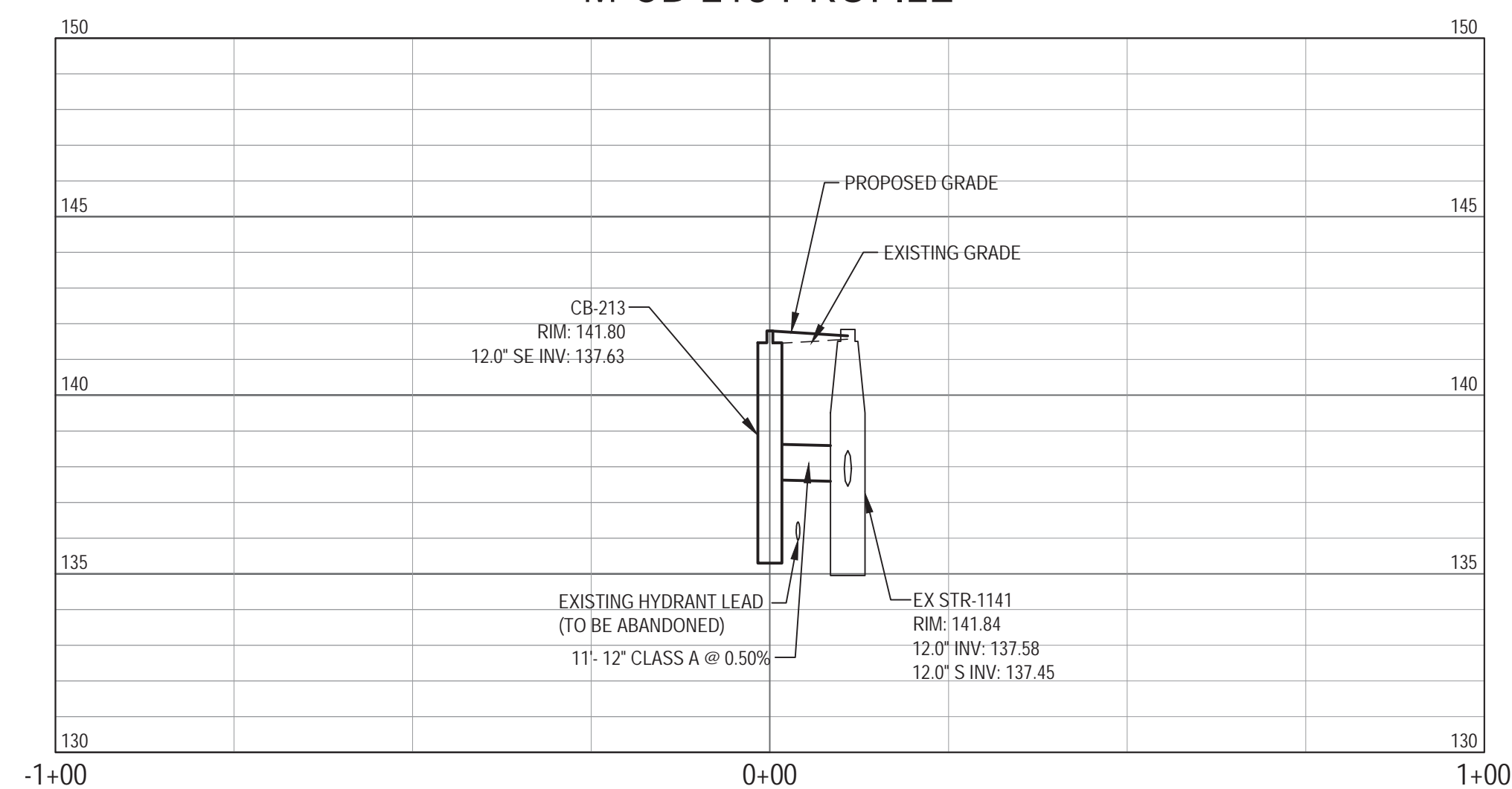
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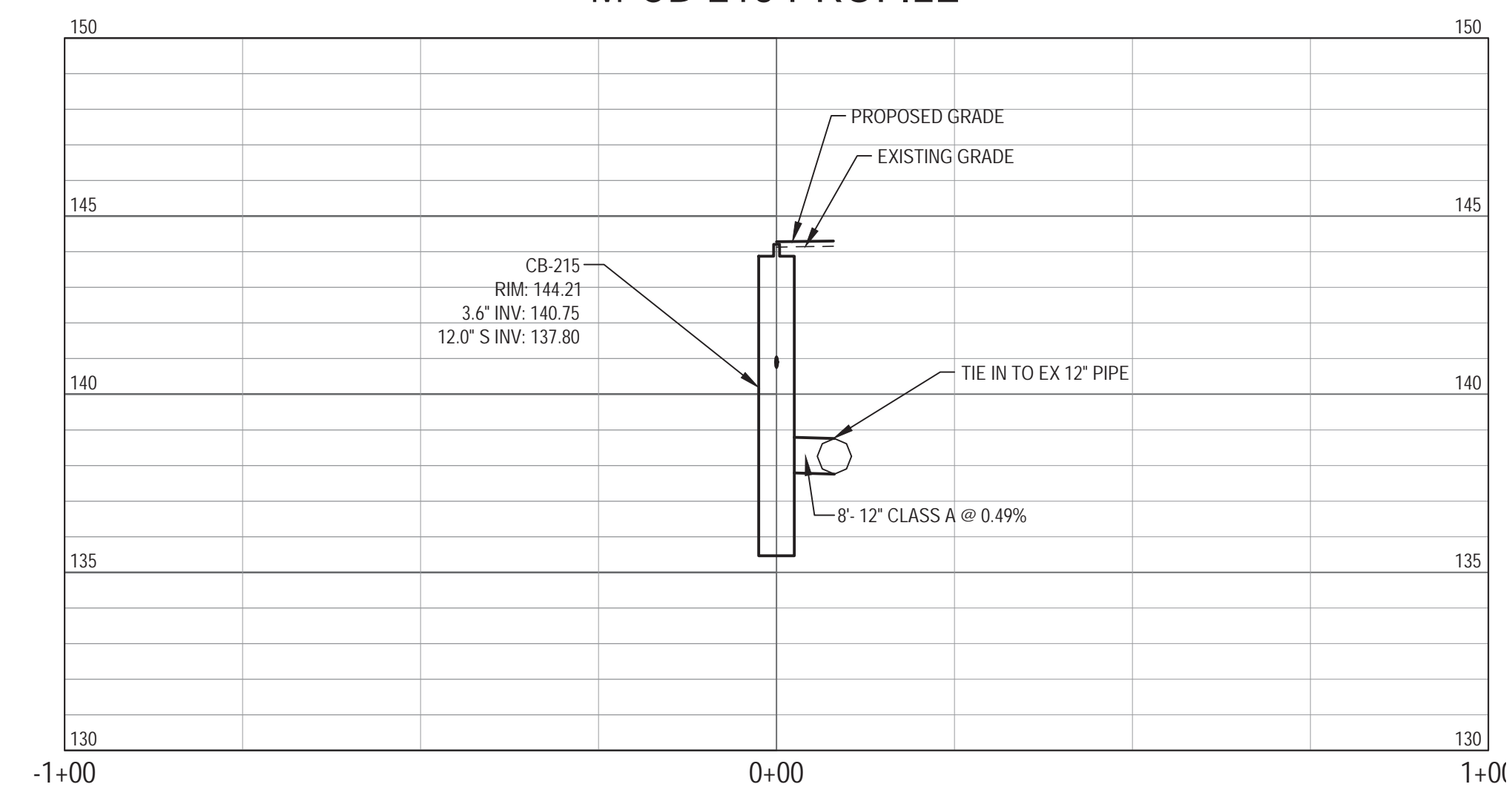
### M-CB-214 PROFILE



### M-CB-213 PROFILE



### M-CB-215 PROFILE



# Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



Midtown Detroit, Inc.

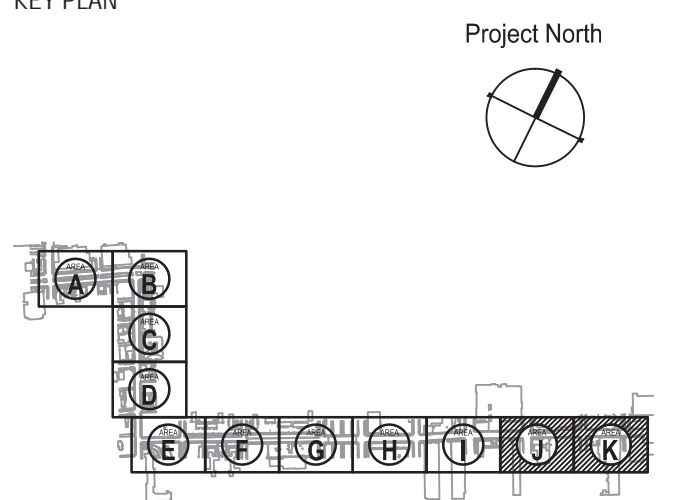
## SMITHGROUP JJR

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SECOND FLOOR  
ANN ARBOR, MI 48104  
734.662.4457  
www.smithgroupjjr.com

ISSUED FOR	REV	DATE
BIDDING DOCUMENTS	5	MAY 21, 2013
BIDDING DOCUMENTS	4	MAY 02, 2013
100% CONSTRUCTION DOCUMENTS	3	APR 01, 2013
GRADE INSPECTION	2	JAN 30, 2013
80% CONSTRUCTION DOCUMENTS	1	JAN 07, 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05, 2012

SEALS AND SIGNATURES

KEY PLAN



DRAWING TITLE

UTILITY PROFILES 3

1" = 20'-0" (HORZ.)  
GRAPHIC SCALE  
TAKES PRECEDENCE  
1" = 4'-0" (VERT.)  
FULL SIZE SCALE (24x36)

PROJECT NUMBER

24708.003

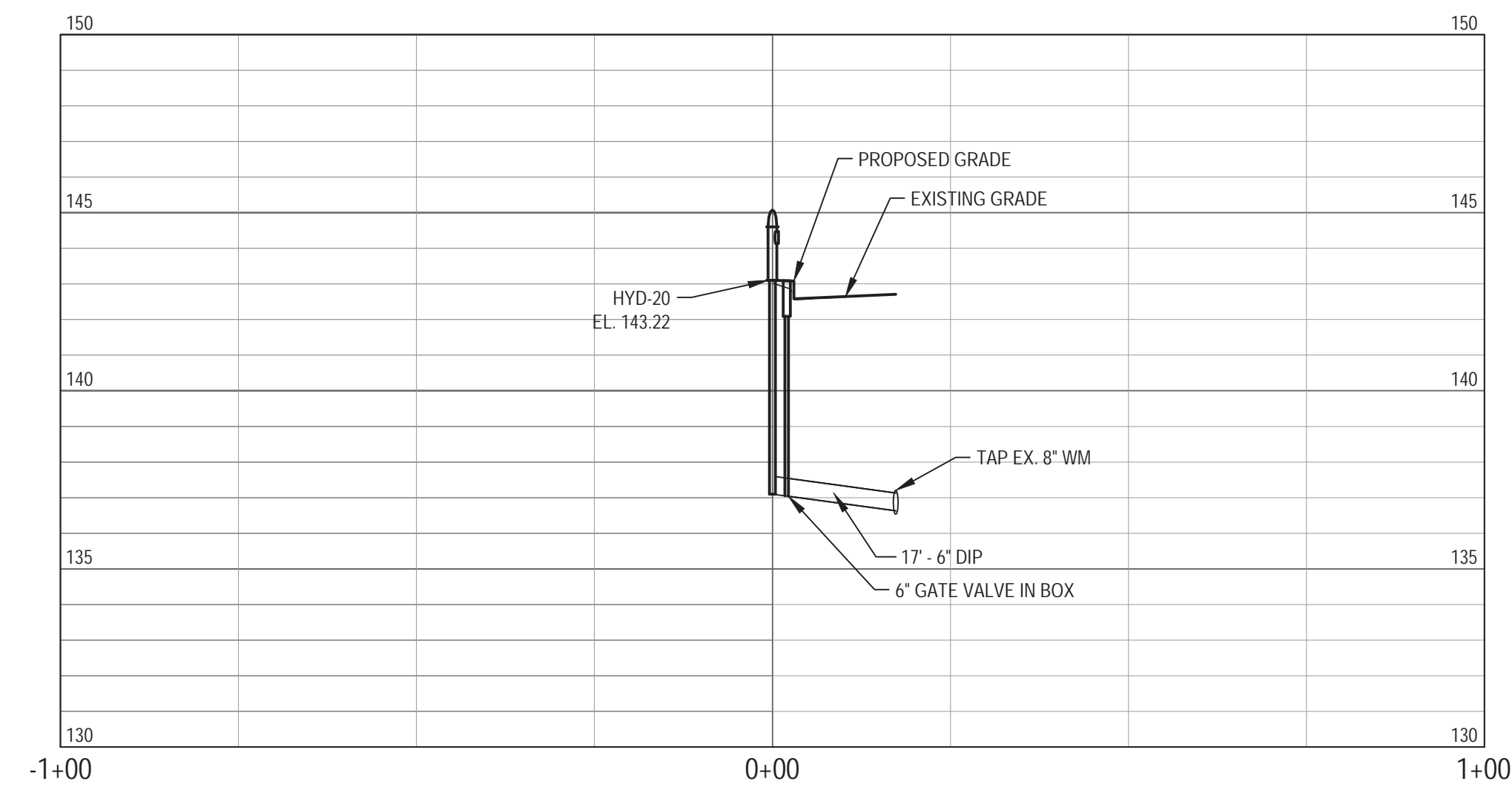
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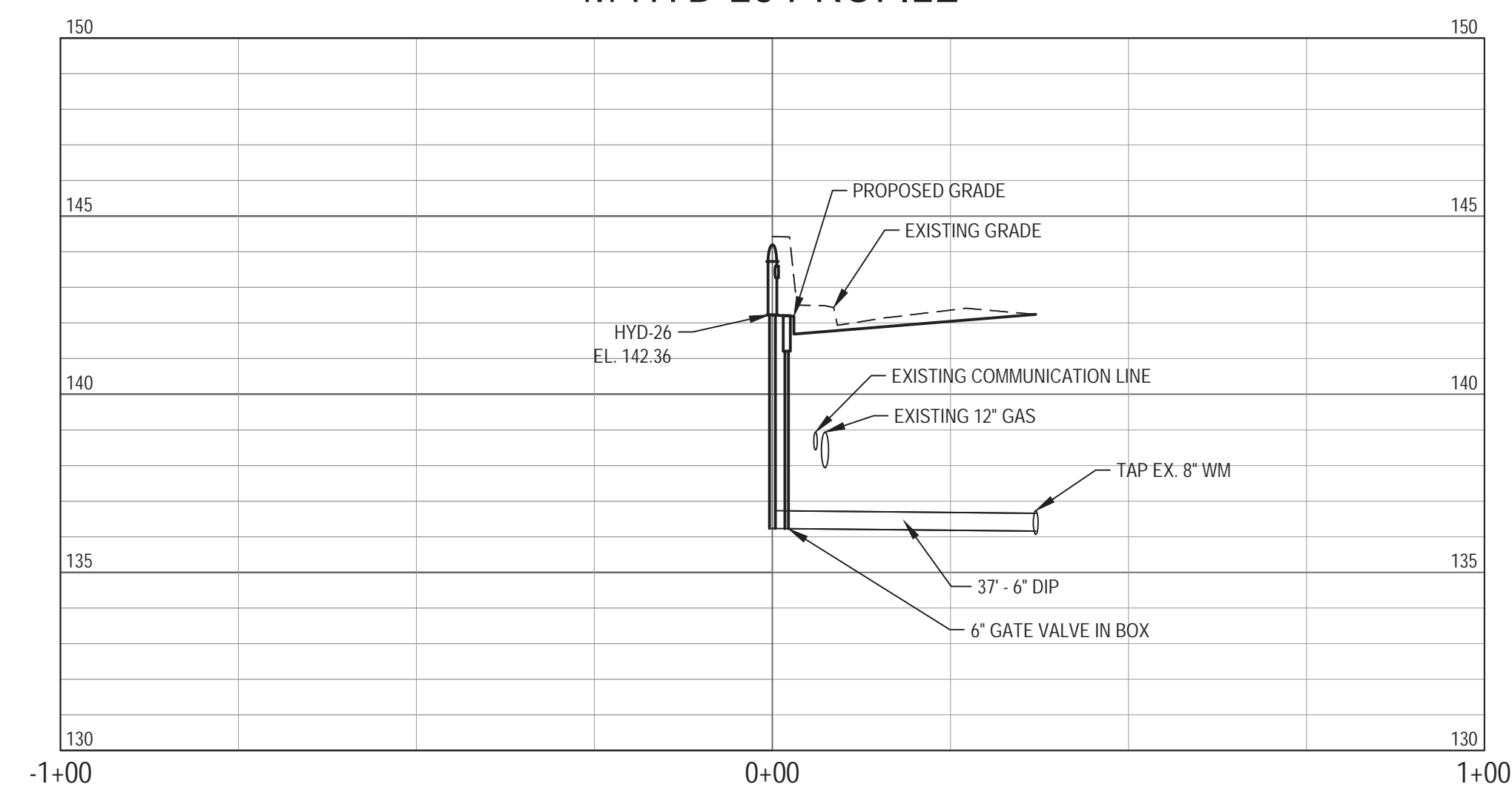
DRAWING NUMBER

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### M-HYD-20 PROFILE



### M-HYD-26 PROFILE





STRUCTURE TABLE			
STRUCTURE NAME:	RIM/GROUND ELEV.:	PIPES IN:	PIPES OUT
CB-200	142.51	1.5" PVC Pipe, INV IN =139.50	12" CLASS A, INV OUT =139.00
CB-201	140.67		
CB-202	138.96		
CB-203	138.79		
CB-204	137.86		
CB-205	139.07		12" CLASS A, INV OUT =134.53
CB-206	139.16		12" CLASS A, INV OUT =135.31
CB-207	140.37		
CB-208	140.87		
CB-209	141.69		12" CLASS A, INV OUT =137.42
CB-210	141.69		12" CLASS A, INV OUT =137.42
CB-211	141.76		12" CLASS A, INV OUT =136.16
CB-212	142.30		12" CLASS A, INV OUT =136.06
CB-213	141.80		12" CLASS A, INV OUT =137.63
CB-214	141.57	12.0" CLASS A, INV IN =135.00	
CB-215	144.21	1.5" PVC Pipe, INV IN =140.75	12" CLASS A, INV OUT =137.80
EX STR-1141	141.84	12.0" CLASS A, INV IN =137.58	12" EX. RCP, INV OUT =137.45
EX STR-1190	142.66	12.0" CLASS A, INV IN =136.00	12" EX. RCP, INV OUT =135.89
EX STR-1321	142.36		
EX STR-1709	141.35		
EX STR-1925	144.44	1.5" PVC Pipe, INV IN =138.00	
EX STR-2020	142.22	12.0" CLASS A, INV IN =137.40	
EX STR-2740	139.17		
EX STR-2812	138.75		
EX STR-2854	139.08	12.0" CLASS A, INV IN =134.50	12" EX. RCP, INV OUT =134.33
EX STR-2993	139.63	12.0" CLASS A, INV IN =135.20	12" EX. RCP, INV OUT =135.17
EX STR-3025	138.81		
EX STR-3065	138.09		
EX STR-3630	142.52		
EX STR-4169	141.34		
EX STR-4430	140.35		
EX STR-6174	140.99		
EX STR-6348	142.16	12.0" CLASS A, INV IN =136.10	12" EX. RCP, INV OUT =136.08
EX STR-6355	142.39	12.0" CLASS A, INV IN =137.39 12.0" EX. RCP, INV IN =133.59 12.0" EX. RCP, INV IN =132.60	12" EX. RCP, INV OUT =132.39
EX STR-6375	142.33		12" CLASS A, INV OUT =134.78
EX STR-7000	139.08		
EX STR-7001	138.52		

FIRE HYDRANT TABLE	
STRUCTURE NAME:	FINISH GRADE:
HYD-20	141.42
HYD-21	143.22
HYD-22	142.31
HYD-23	141.12
HYD-24	139.05
HYD-25	140.07
HYD-26	140.53
HYD-27	140.35
HYD-28	142.36

UTILITY CONNECTIONS TABLE		
STRUCTURE NAME:	STATION:	OFFSET:
DST-1	STA: 167+27.90	OFF: -19.34, L
DST-2	STA: 167+41.13	OFF: 29.32, R
DST-3	STA: 182+12.20	OFF: -18.90, L
DST-4	STA: 184+95.38	OFF: -22.07, L
DST-5	STA: 185+36.65	OFF: -49.05, L
DST-6	STA: 186+09.36	OFF: -22.33, L
DST-7	STA: 189+43.00	OFF: -18.86, L
DST-8	STA: 190+63.95	OFF: -15.22, L
DST-9	STA: 190+56.20	OFF: 11.15, R
ST-1	STA: 145+37.55	OFF: -1.05, L
TEE-1	STA: 144+32.57	OFF: 29.33, R
TEE-2	STA: 191+04.78	OFF: 23.18, R
WT-1	STA: 146+13.20	OFF: 14.81, R
WT-2	STA: 162+19.81	OFF: -40.44, L
WT-3	STA: 185+48.04	OFF: -87.01, L
WT-4	STA: 194+90.19	OFF: -86.02, L

DST = DR STRUCTURE, TAP, \_ INCH  
ST = SEWER TAP, MODIFIED  
WT = WATER SERV, TAP

**Midtown Loop  
Phase IV**

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



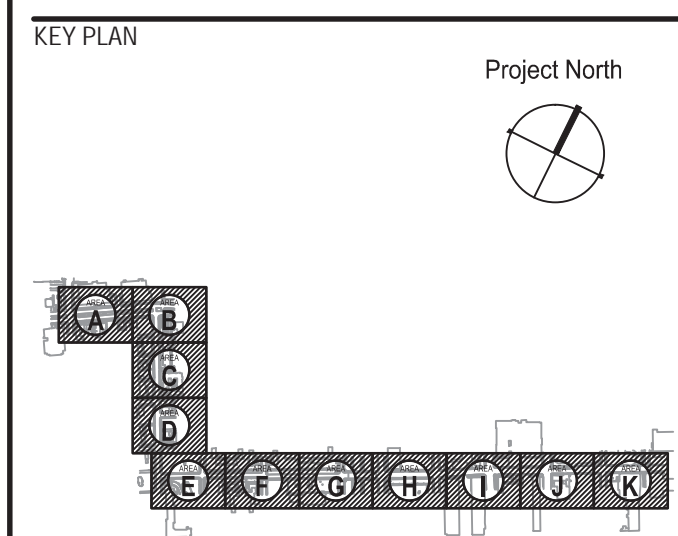
Midtown Detroit, Inc.

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SEALS AND SIGNATURES



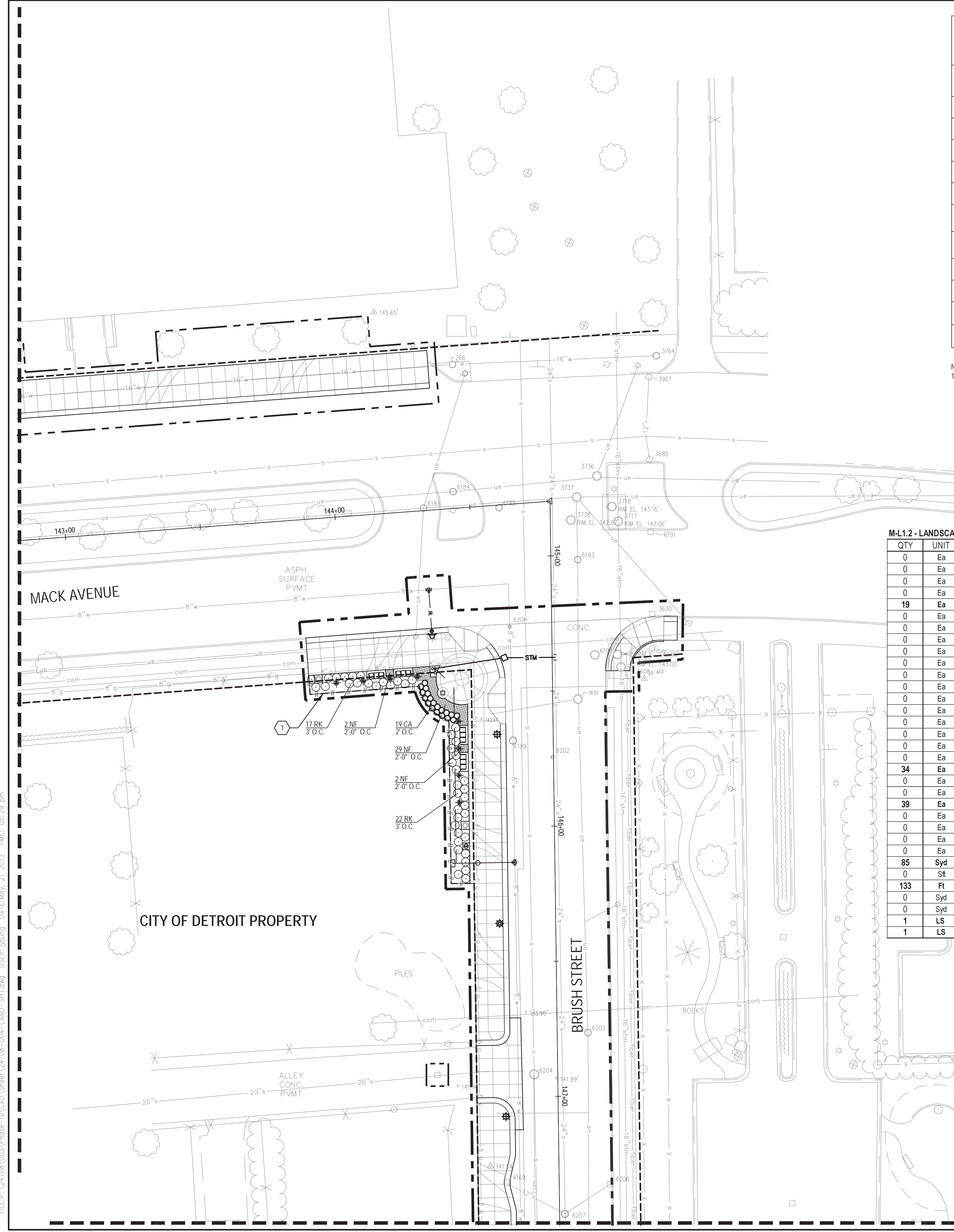
DRAWING TITLE  
**UTILITY STRUCTURE  
TABLE**

GRAPHIC SCALE N/A  
TAKES PRECEDENCE  
FULL SIZE SCALE (24x36) 24708.003

PROJECT NUMBER  
**M-C7.18**  
DRAWING NUMBER 329 of 497



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### MIDTOWN LOOP KEY NOTES AND LEGEND

LANDSCAPE KEY NOTES AND LEGEND	
	CONSTRUCTION LIMIT LINE
	RIGHT-OF-WAY LINE
	MATCH LINE
	HORIZONTAL ALIGNMENT
	ADJACENT PROPERTY
	SHADE TREE
	ORNAMENTAL TREE
	DECIDUOUS SHRUB
	SEEDING, TYPE 1, MODIFIED
	PERENNIALS
	LANDSCAPE EDGING

NOTE:  
1. REFER TO G07 FOR LANDSCAPE NOTES.

### M-L1.2 - LANDSCAPE

QTY	UNIT	ITEM DESCRIPTION	ABBREVIATION	SPACING	NOTES
0	Ea	_Acer freemanii x 'Autumn Fantasy', 3 inch, B&B	AF	Per Plan	1 Central Leader, 7' Branch Height, Well Branched, Matched
0	Ea	_Aesculus x carnea 'Brioti', 3 inch, B&B	AC	Per Plan	1 Central Leader, 7' Branch Height, Well Branched, Matched
0	Ea	_Agastache x 'Blue Fortune', #1 cont.	AB	1'-6" o.c.	Fully Rooted
0	Ea	_Alchemilla mollis, #1 cont.	AM	1'-6" o.c.	Fully Rooted
19	Ea	<b>Calamagrostis x acutiflora 'Karl Foerster', #1 cont.</b>	CA	2'-0" o.c.	Fully Rooted
0	Ea	_Chasmanthium latifolium, #1 cont.	CL	2'-0" o.c.	Fully Rooted
0	Ea	_Coreopsis verticillata 'Zagreb', #1 cont.	CB	1'-6" o.c.	Fully Rooted
0	Ea	_Crataegus viridis 'Winter King', 2-1/2 inch, B&B	CV	Per Plan	6' Branch Height, Well Branched, Matched
0	Ea	_Dienella lonicera, 24 inch spd.	DL	3'-0" o.c.	Minimum 4 Stems, Full
0	Ea	_Ginkgo biloba 'Autumn Gold', 3 inch, B&B	GB	Per Plan	1 Central Leader, 7' Branch Height, Well Branched Matched
0	Ea	_Helianthus 'Lemon Queen', #1 cont.	HL	2'-0" o.c.	Fully Rooted
0	Ea	_Hemerocallis 'Black Eyed Stella', #1 cont.	HB	1'-6" o.c.	Fully Rooted
0	Ea	_Hemerocallis 'Happy Returns', #1 cont.	HH	1'-6" o.c.	Fully Rooted
0	Ea	_Hemerocallis 'Rosy Returns', #1 cont.	HR	1'-6" o.c.	Fully Rooted
0	Ea	_Hydrangea paniculata 'Limelight', 30 inch ht.	HP	4'-0" o.c.	Minimum 3 Stems, Full
0	Ea	_Lysmachia clethroides, #1 cont.	LC	2'-0" o.c.	Fully Rooted
0	Ea	_Malus 'Prairiefire', 2-1/2 inch, B&B	MP	Per Plan	6' Branch Height, Well Branched, Matched
0	Ea	_Miscanthus sinensis 'Purpurascens', #1 cont.	MS	2'-0" o.c.	Fully Rooted
34	Ea	<b>Nepeta x faassennii 'Walker's Low', #1 cont.</b>	NF	2'-0" o.c.	Fully Rooted
0	Ea	_Panicum virgatum 'Rostratibush', #1 cont.			
0	Ea	_Physocarpus opulifolius 'Summer Wine', 24 inch ht.			
39	Ea	<b>Rosa 'Knock-out', 24 inch spd.</b>			
0	Ea	_Rudbeckia fulgida 'Goldsturm', #1 cont.			
0	Ea	_Spiraea japonica 'Little Princess', 15 inch spd.			
0	Ea	_Viburnum carlesii, 24 inch ht.			
0	Ea	_Zelkova serrata 'Green Vase', 3 inch, B&B			
85	Syd	<b>Mulch, Hardwood Bark, 2 inch Depth</b>			
0	Sft	_Seeding, Type 1, Modified			
133	Ft	<b>Landscape Edging</b>			
0	Syd	_Topsoil Surface, 4 inch Depth, Modified			
0	Syd	_Planting Mixture, 12 inch Depth			
1	LS	_Mowing, Modified			
1	LS	_Watering and Cultivating, First Season, Modified			

### Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



Owners:  
  
City of Detroit



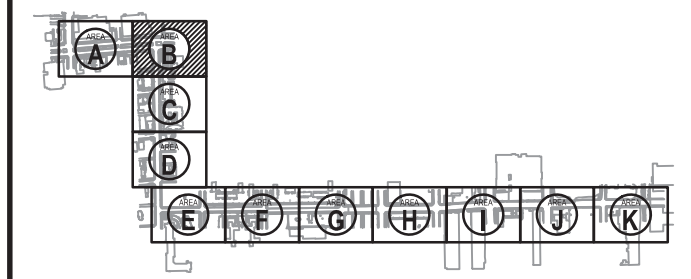
Midtown Detroit, Inc.

### SMITHGROUP JJR

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80% CONSTRUCTION DOCUMENTS	1	JAN 07, 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05, 2012

SEALS AND SIGNATURES



DRAWING TITLE  
**LANDSCAPE PLAN - AREA B**

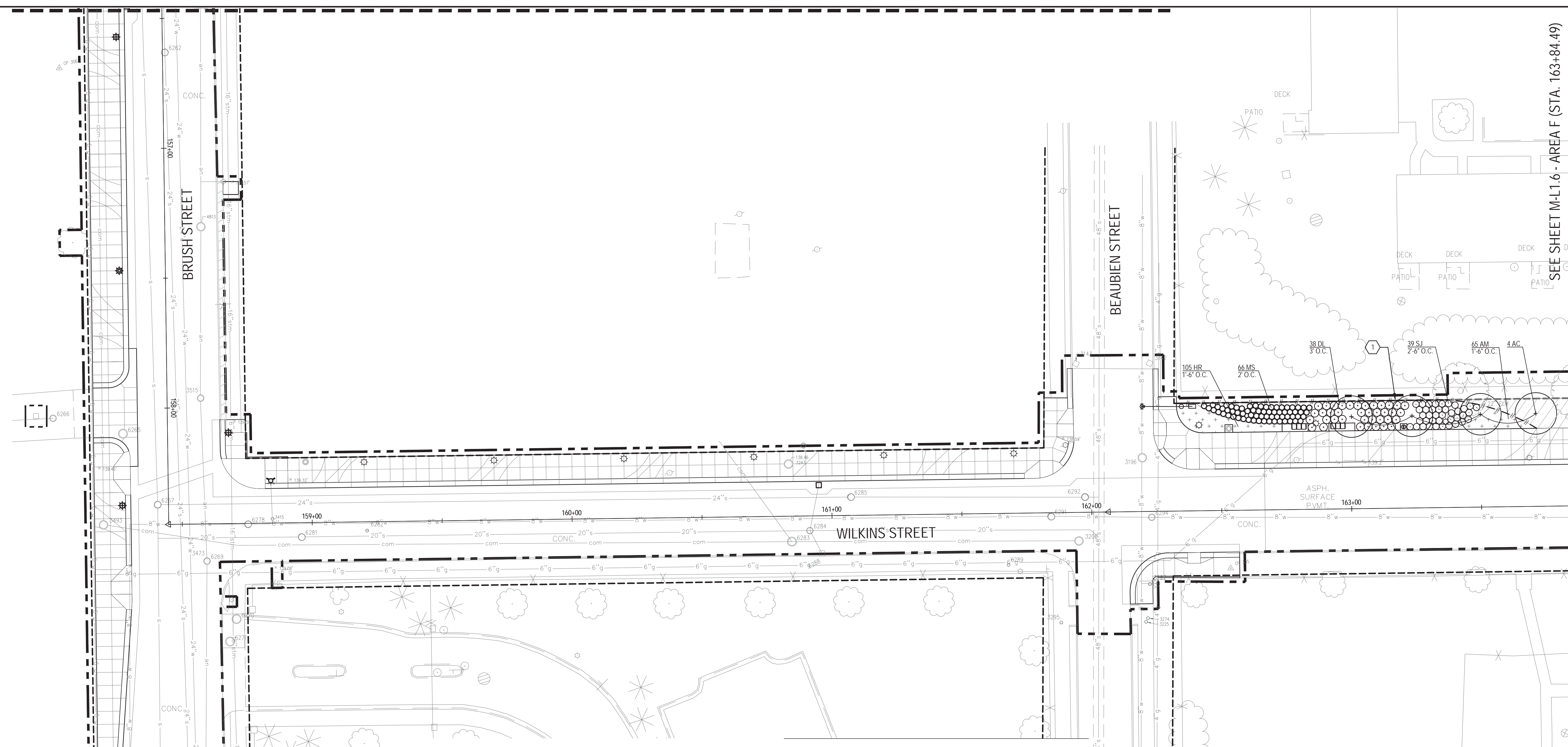
GRAPHIC SCALE TAKES PRECEDENCE  
FULL SIZE SCALE (24x36)  
**1" = 20'-0"**  
24708.003

PROJECT NUMBER  
**M-L1.2**  
DRAWING NUMBER  
330 of 497



3 WORKING DAYS BEFORE YOU DIG  
CALL MISS DIG  
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FILE: P:\24708\003\Phase-IV\CAD\Sheet\24708-004-LAND-SHT.dwg USER: jyoung DATE: May 21 2013 TIME: 05:30 pm



SEE SHEET M-L1.6 - AREA F (STA. 163+84.49)

# Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



Midtown Detroit, Inc.

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GRADE INSPECTION	2	JAN 30 2013
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50% CONSTRUCTION DOCUMENTS	0	NOV 05 2012

SEALS AND SIGNATURES

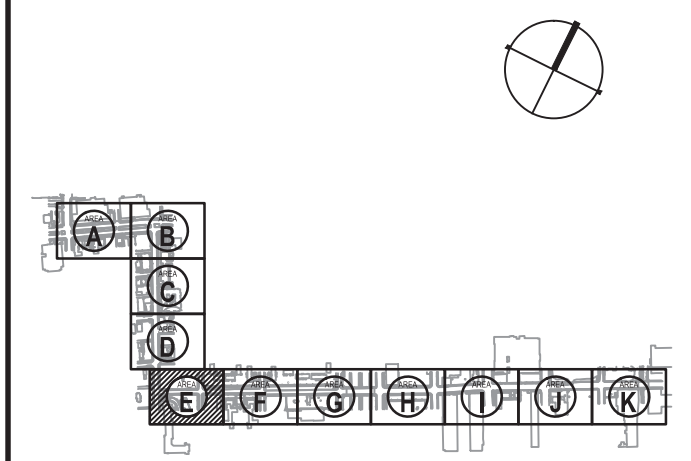
M-L1.5 - LANDSCAPE		ITEM DESCRIPTION	ABBREVIATION	SPACING	NOTES
0	Ea	<i>Acer freemanii</i> x 'Autumn Fantasy', 3 inch, B&B	AF	Per Plan	1 Central Leader, 7' Branch Height, Well Branched, Matched
4	Ea	<i>Aesculus x carnea</i> 'Briotti', 3 inch, B&B	AC	Per Plan	1 Central Leader, 7' Branch Height, Well Branched, Matched
0	Ea	<i>Agastache</i> x 'Blue Fortune', #1 cont.	AB	1'-6" o.c.	Fully Rooted
65	Ea	<i>Alchemilla mollis</i> , #1 cont.	AM	1'-6" o.c.	Fully Rooted
0	Ea	<i>Calamagrostis x acutiflora</i> 'Karl Foerster', #1 cont.	CA	2'-0" o.c.	Fully Rooted
0	Ea	<i>Chasmanthium latifolium</i> , #1 cont.	CL	2'-0" o.c.	Fully Rooted
0	Ea	<i>Coreopsis verticillata</i> 'Zagreb', #1 cont.	CB	1'-6" o.c.	Fully Rooted
0	Ea	<i>Craegus viridis</i> 'Winter King', 2-1/2 inch, B&B	CV	Per Plan	6' Branch Height, Well Branched, Matched
38	Ea	<i>Diervilla lonicera</i> , 24 inch spd.	DL	3'-0" o.c.	Minimum 4 Stems, Full
0	Ea	<i>Ginkgo biloba</i> 'Autumn Gold', 3 inch, B&B	GB	Per Plan	1 Central Leader, 7' Branch Height, Well Branched Matched
0	Ea	<i>Helianthus</i> 'Lemon Queen', #1 cont.	HL	2'-0" o.c.	Fully Rooted
0	Ea	<i>Hemerocallis</i> 'Black Eyed Stella', #1 cont.	HB	1'-6" o.c.	Fully Rooted
0	Ea	<i>Hemerocallis</i> 'Happy Returns', #1 cont.	HH	1'-6" o.c.	Fully Rooted
105	Ea	<i>Hemerocallis</i> 'Rosy Returns', #1 cont.	HR	1'-6" o.c.	Fully Rooted
0	Ea	<i>Hydrangea paniculata</i> 'Limelight', 30 inch ht.	HP	4'-0" o.c.	Minimum 3 Stems, Full
0	Ea	<i>Lysimachia clethroides</i> , #1 cont.	LC	2'-0" o.c.	Fully Rooted
0	Ea	<i>Malus</i> 'Prairiefire', 2-1/2 inch, B&B	MP	Per Plan	6' Branch Height, Well Branched, Matched
66	Ea	<i>Miscanthus sinensis</i> 'Purpurascens', #1 cont.	MS	2'-0" o.c.	Fully Rooted
0	Ea	<i>Nepeta x faassennii</i> 'Walker's Low', #1 cont.	NF	2'-0" o.c.	Fully Rooted
0	Ea	<i>Panicum virgatum</i> 'Rostralbush', #1 cont.			
0	Ea	<i>Physocarpus opulifolius</i> 'Summer Wine', 24 inch ht.			
0	Ea	<i>Rosa</i> 'Knock-out', 24 inch spd.			
0	Ea	<i>Rudbeckia fulgida</i> 'Goldsturm', #1 cont.			
39	Ea	<i>Spiraea japonica</i> 'Little Princess', 15 inch spd.			
0	Ea	<i>Viburnum carlesii</i> , 24 inch ht.			
0	Ea	<i>Zelkova serrata</i> 'Green Vase', 3 inch, B&B			
154	Syd	Mulch, Hardwood Bark, 2 inch Depth			
495	Sft	Seeding, Type 1, Modified			
141	Ft	Landscape Edging			
33	Syd	Topsoil Surface, 4 inch Depth, Modified			
155	Syd	Planting Mixture, 12 inch Depth			
0	LS	Mowing, Modified			
0	LS	Watering and Cultivating, First Season, Modified			

### MIDTOWN LOOP KEY NOTES AND LEGEND

LANDSCAPE KEY NOTES AND LEGEND	
	CONSTRUCTION LIMIT LINE
	RIGHT-OF-WAY LINE
	MATCH LINE
	HORIZONTAL ALIGNMENT
	ADJACENT PROPERTY
	SHADE TREE
	ORNAMENTAL TREE
	DECIDUOUS SHRUB
	SEEDING, TYPE 1, MODIFIED
	PERENNIALS
	LANDSCAPE EDGING

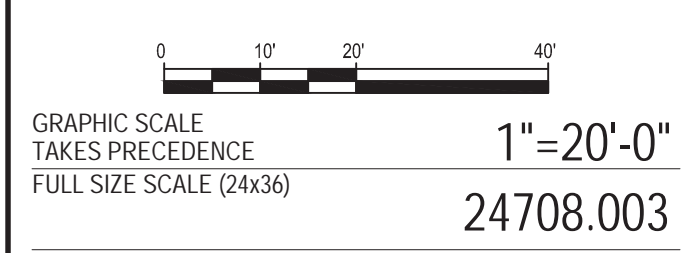
NOTE:  
1. REFER TO G0.7 FOR LANDSCAPE NOTES.

KEY PLAN



### DRAWING TITLE

## LANDSCAPE PLAN - AREA E



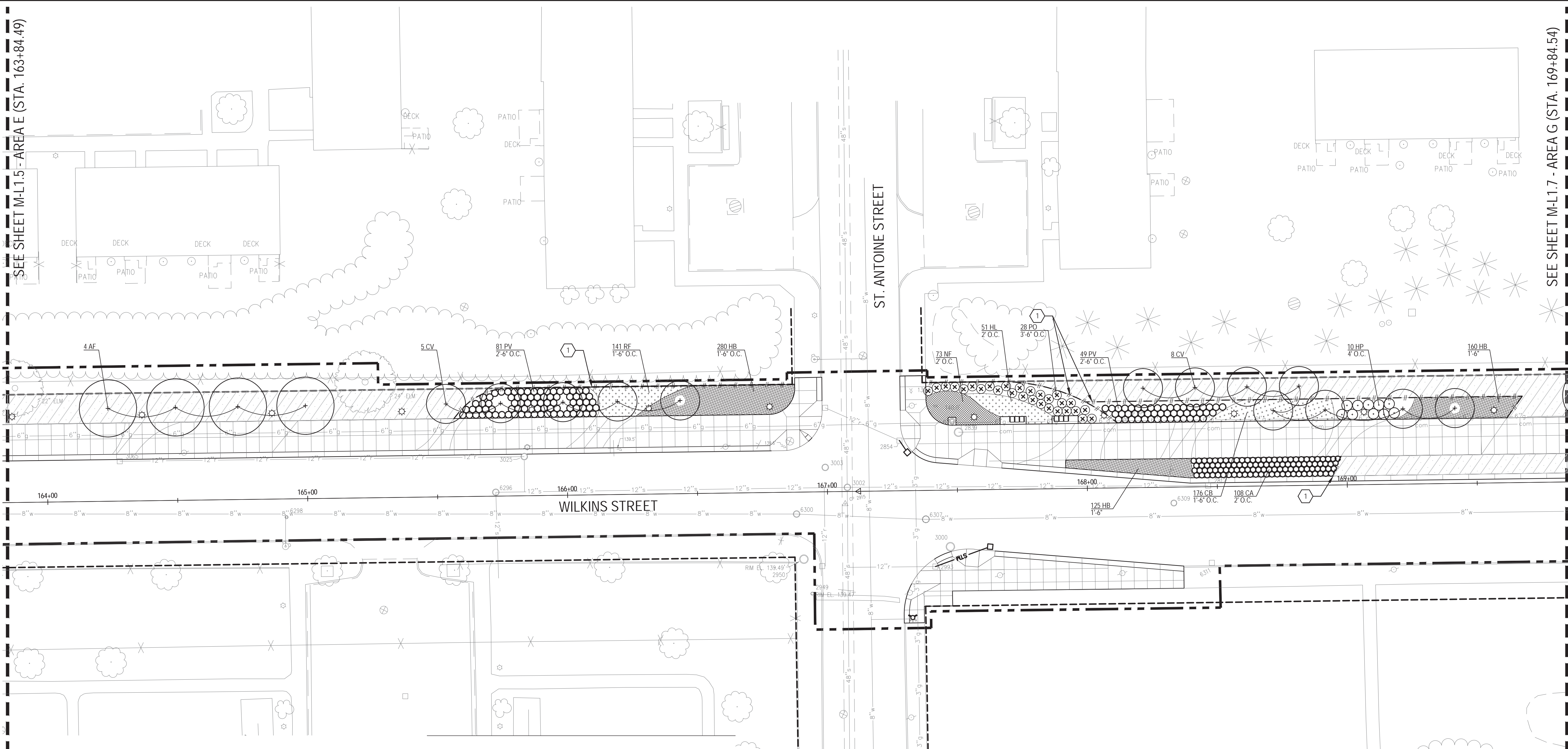
PROJECT NUMBER  
**M-L1.5**

DRAWING NUMBER  
331 of 497



SEE SHEET M-L1.5 - AREA E (STA. 163+84.49)

SEE SHEET M-L1.7 - AREA G (STA. 169+84.54)



M-L1.6 - LANDSCAPE

QTY	UNIT	ITEM DESCRIPTION	ABBREVIATION	SPACING	NOTES
4	Ea	<i>Acer freemanii</i> x 'Autumn Fantasy', 3 inch, B&B	AF	Per Plan	1 Central Leader, 7' Branch Height, Well Branched, Matched
0	Ea	<i>Aesculus x carnea</i> 'Briotii', 3 inch, B&B	AC	Per Plan	1 Central Leader, 7' Branch Height, Well Branched, Matched
0	Ea	<i>Agastache</i> x 'Blue Fortune', #1 cont.	AB	1'-6" o.c.	Fully Rooted
0	Ea	<i>Alchemilla mollis</i> , #1 cont.	AM	1'-6" o.c.	Fully Rooted
108	Ea	<i>Calamagrostis x acutiflora</i> 'Karl Foerster', #1 cont.	CA	2'-0" o.c.	Fully Rooted
0	Ea	<i>Chasmanthium latifolium</i> , #1 cont.	CL	2'-0" o.c.	Fully Rooted
176	Ea	<i>Coreopsis verticillata</i> 'Zagreb', #1 cont.	CB	1'-6" o.c.	Fully Rooted
13	Ea	<i>Crataegus viridis</i> 'Winter King', 2-1/2 inch, B&B	CV	Per Plan	6' Branch Height, Well Branched, Matched
0	Ea	<i>Dierilla lonicera</i> , 24 inch spd.	DL	3'-0" o.c.	Minimum 4 Stems, Full
0	Ea	<i>Ginkgo biloba</i> 'Autumn Gold', 3 inch, B&B	GB	Per Plan	1 Central Leader, 7' Branch Height, Well Branched Matched
51	Ea	<i>Helianthus</i> 'Lemon Queen', #1 cont.	HL	2'-0" o.c.	Fully Rooted
565	Ea	<i>Hemerocallis</i> 'Black Eyed Stella', #1 cont.	HB	1'-6" o.c.	Fully Rooted
0	Ea	<i>Hemerocallis</i> 'Happy Returns', #1 cont.	HH	1'-6" o.c.	Fully Rooted
0	Ea	<i>Hemerocallis</i> 'Rosy Returns', #1 cont.	HR	1'-6" o.c.	Fully Rooted
10	Ea	<i>Hydrangea paniculata</i> 'Limelight', 30 inch ht.	HP	4'-0" o.c.	Minimum 3 Stems, Full
0	Ea	<i>Lysimachia clethroides</i> , #1 cont.	LC	2'-0" o.c.	Fully Rooted
0	Ea	<i>Malus</i> 'Prairiefire', 2-1/2 inch, B&B	MP	Per Plan	6' Branch Height, Well Branched, Matched
0	Ea	<i>Miscanthus sinensis</i> 'Purpureascens', #1 cont.	MS	2'-0" o.c.	Fully Rooted
73	Ea	<i>Nepeta x faassennii</i> 'Walker's Low', #1 cont.	NF	2'-0" o.c.	Fully Rooted
130	Ea	<i>Panicum virgatum</i> 'Rostralbush', #1 cont.			
28	Ea	<i>Physocarpus opulifolius</i> 'Summer Wine', 24 inch ht.			
0	Ea	<i>Rosa</i> 'Knock-out', 24 inch spd.			
141	Ea	<i>Rudbeckia fulgida</i> 'Goldsturm', #1 cont.			
0	Ea	<i>Spiraea japonica</i> 'Little Princess', 15 inch spd.			
0	Ea	<i>Viburnum carlesii</i> , 24 inch ht.			
0	Ea	<i>Zelkova serrata</i> 'Green Vase', 3 inch, B&B			
512	Syd	Mulch, Hardwood Bark, 2 inch Depth			
4490	Sft	Seeding, Type 1, Modified			
393	Ft	Landscape Edging			
500	Syd	Topsoil Surface, 4 inch Depth, Modified			
521	Syd	Planting Mixture, 12 inch Depth			
0	LS	Mowing, Modified			
0	LS	Watering and Cultivating, First Season, Modified			

MIDTOWN LOOP KEY NOTES AND LEGEND

LANDSCAPE KEY NOTES AND LEGEND	
	CONSTRUCTION LIMIT LINE
	RIGHT-OF-WAY LINE
	MATCH LINE
	HORIZONTAL ALIGNMENT
	ADJACENT PROPERTY
	SHADE TREE
	ORNAMENTAL TREE
	DECIDUOUS SHRUB
	SEEDING, TYPE 1, MODIFIED
	PERENNIALS
	LANDSCAPE EDGING

NOTE:  
1. REFER TO G0.7 FOR LANDSCAPE NOTES.

Midtown Loop  
Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



Midtown Detroit, Inc.

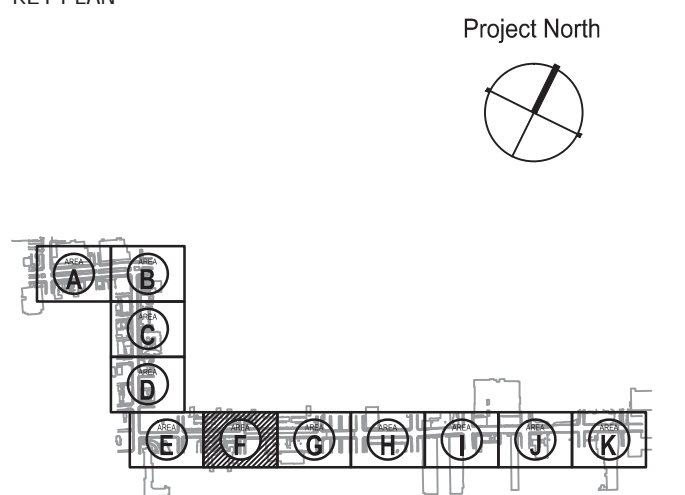
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ISSUED FOR	REV	DATE
BIDDING DOCUMENTS	5	MAY 21 2013
BIDDING DOCUMENTS	4	MAY 02 2013
100% CONSTRUCTION DOCUMENTS	3	APR 01 2013
GRADE INSPECTION	2	JAN 30 2013
80% CONSTRUCTION DOCUMENTS	1	JAN 07 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05 2012

SEALS AND SIGNATURES

KEY PLAN



DRAWING TITLE

LANDSCAPE PLAN -  
AREA F

GRAPHIC SCALE  
TAKES PRECEDENCE  
FULL SIZE SCALE (24x36)  
1"=20'-0"  
24708.003

PROJECT NUMBER

M-L1.6

DRAWING NUMBER

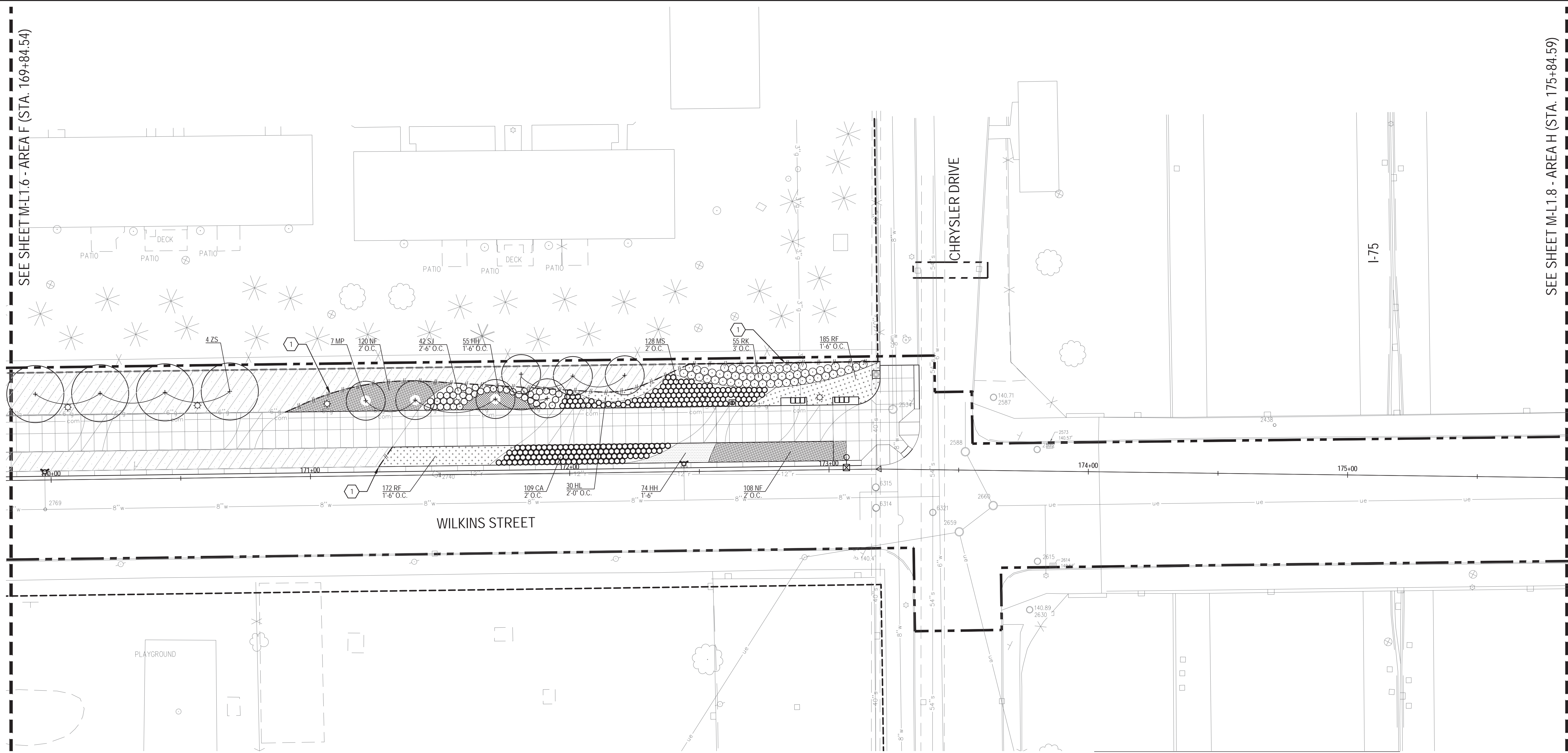
322 of 497

FILE: P:\24708\003\Phase-IV\CAD\Sheet\24708-004-LAND-SHT.dwg USER: jyoung DATE: May 21 2013 TIME: 05:30 pm



SEE SHEET M-L1.6 - AREA F (STA. 169+84.54)

SEE SHEET M-L1.8 - AREA H (STA. 175+84.59)



# Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



Midtown Detroit, Inc.

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50% CONSTRUCTION DOCUMENTS	0	NOV 05, 2012

SEALS AND SIGNATURES

### MIDTOWN LOOP KEY NOTES AND LEGEND

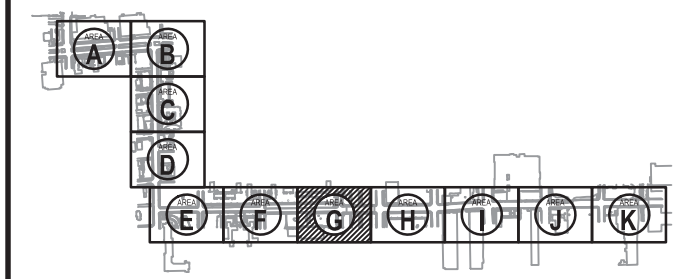
LANDSCAPE KEY NOTES AND LEGEND	
	CONSTRUCTION LIMIT LINE
	RIGHT-OF-WAY LINE
	MATCH LINE
	HORIZONTAL ALIGNMENT
	ADJACENT PROPERTY
	SHADE TREE
	ORNAMENTAL TREE
	DECIDUOUS SHRUB
	SEEDING, TYPE 1, MODIFIED
	PERENNIALS
	LANDSCAPE EDGING

NOTE:  
1. REFER TO G0.7 FOR LANDSCAPE NOTES.

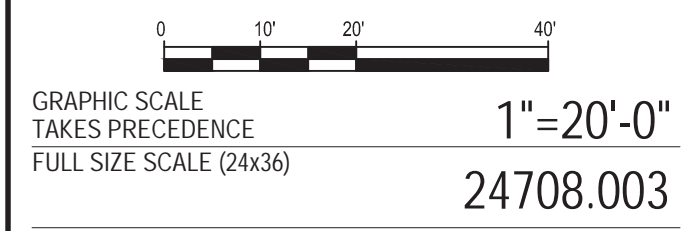
### M-L1.7 - LANDSCAPE

QTY	UNIT	ITEM DESCRIPTION	ABBREVIATION	SPACING	NOTES
0	Ea	Acer freemanii x 'Autumn Fantasy', 3 inch, B&B	AF	Per Plan	1 Central Leader, 7' Branch Height, Well Branched, Matched
0	Ea	Aesculus x carnea 'Britoli', 3 inch, B&B	AC	Per Plan	1 Central Leader, 7' Branch Height, Well Branched, Matched
0	Ea	Agastache x 'Blue Fortune', #1 cont.	AB	1'-6" o.c.	Fully Rooted
0	Ea	Alchemilla mollis, #1 cont.	AM	1'-6" o.c.	Fully Rooted
109	Ea	Calamagrostis x acutiflora 'Karl Foerster', #1 cont.	CA	2'-0" o.c.	Fully Rooted
0	Ea	Chasmanthium latifolium, #1 cont.	CL	2'-0" o.c.	Fully Rooted
0	Ea	Coreopsis verticillata 'Zagreb', #1 cont.	CB	1'-6" o.c.	Fully Rooted
0	Ea	Crataegus viridis 'Winter King', 2-1/2 inch, B&B	CV	Per Plan	6' Branch Height, Well Branched, Matched
0	Ea	Diervilla lonicera, 24 inch spd.	DL	3'-0" o.c.	Minimum 4 Stems, Full
0	Ea	Ginkgo biloba 'Autumn Gold', 3 inch, B&B	GB	Per Plan	1 Central Leader, 7' Branch Height, Well Branched Matched
30	Ea	Helianthus 'Lemon Queen', #1 cont.	HL	2'-0" o.c.	Fully Rooted
0	Ea	Hemerocallis 'Black Eyed Stella', #1 cont.	HB	1'-6" o.c.	Fully Rooted
129	Ea	Hemerocallis 'Happy Returns', #1 cont.	HH	1'-6" o.c.	Fully Rooted
0	Ea	Hemerocallis 'Rosy Returns', #1 cont.	HR	1'-6" o.c.	Fully Rooted
0	Ea	Hydrangea paniculata 'Limelight', 30 inch ht.	HP	4'-0" o.c.	Minimum 3 Stems, Full
0	Ea	Lysimachia clethroides, #1 cont.	LC	2'-0" o.c.	Fully Rooted
7	Ea	Malus 'Prairiefire', 2-1/2 inch, B&B	MP	Per Plan	6' Branch Height, Well Branched, Matched
128	Ea	Miscanthus sinensis 'Purpurascens', #1 cont.	MS	2'-0" o.c.	Fully Rooted
228	Ea	Nepeta x faassennii 'Walker's Low', #1 cont.	NF	2'-0" o.c.	Fully Rooted
0	Ea	Panicum virgatum 'Rostralbush', #1 cont.			
0	Ea	Physocarpus opulifolius 'Summer Wine', 24 inch ht.			
55	Ea	Rosa 'Knock-out', 24 inch spd.			
357	Ea	Rudbeckia fulgida 'Goldsturm', #1 cont.			
42	Ea	Spirea japonica 'Little Princess', 15 inch spd.			
0	Ea	Viburnum carlesii, 24 inch ht.			
4	Ea	Zelkova serrata 'Green Vase', 3 inch, B&B			
343	Syd	Mulch, Hardwood Bark, 2 inch Depth			
4034	Sft	Seeding, Type 1, Modified			
243	Ft	Landscape Edging			
450	Syd	Topsoil Surface, 4 inch Depth, Modified			
350	Syd	Planting Mixture, 12 inch Depth			
0	LS	Mowing, Modified			
0	LS	Watering and Cultivating, First Season, Modified			

KEY PLAN



### LANDSCAPE PLAN - AREA G



PROJECT NUMBER  
**M-L1.7**  
DRAWING NUMBER

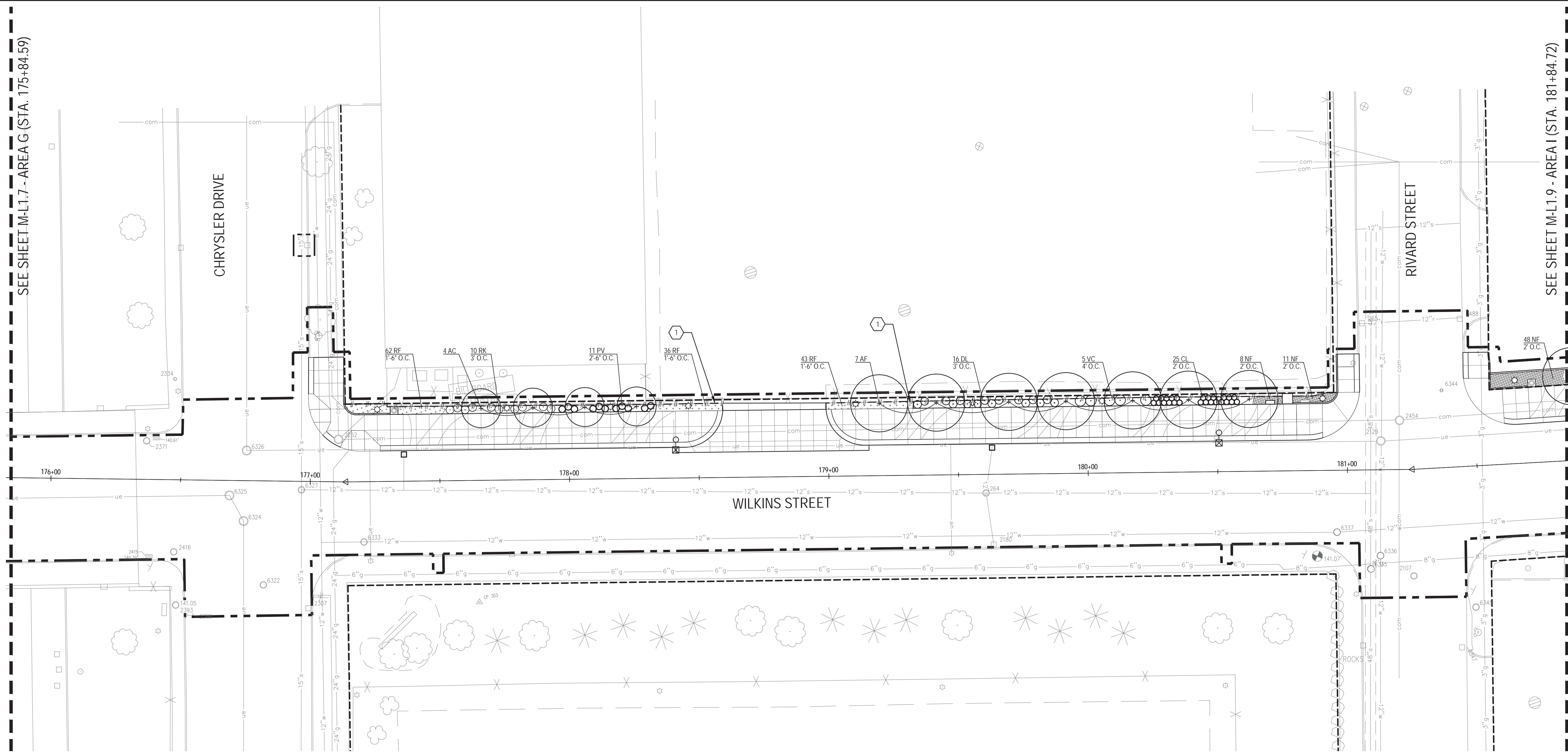


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SEE SHEET M-L1.7 - AREA G (STA. 175+84.59)

SEE SHEET M-L1.9 - AREA I (STA. 181+84.72)



# Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



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SEALS AND SIGNATURES

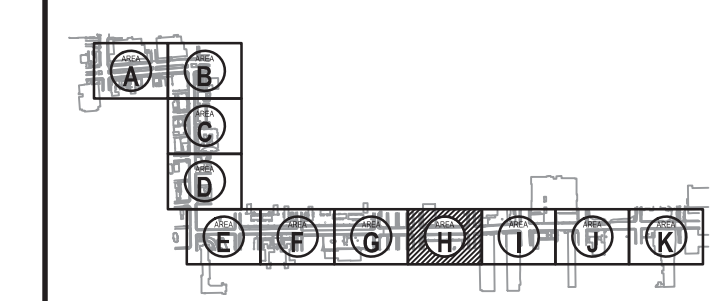
### M-L1.8 - LANDSCAPE

QTY	UNIT	ITEM DESCRIPTION	ABBREVIATION	SPACING	NOTES
7	Ea	Acer freemanii x 'Autumn Fantasy', 3 inch, B&B	AF	Per Plan	1 Central Leader, 7 Branch Height, Well Branched, Matched
4	Ea	Aesculus x carnea 'Briotti', 3 inch, B&B	AC	Per Plan	1 Central Leader, 7 Branch Height, Well Branched, Matched
0	Ea	Agastache x 'Blue Fortune', #1 cont.	AB	1'-6" o.c.	Fully Rooted
0	Ea	Alchemilla mollis, #1 cont.	AM	1'-6" o.c.	Fully Rooted
0	Ea	Calamagrostis x acutiflora 'Karl Foerster', #1 cont.	CA	2'-0" o.c.	Fully Rooted
25	Ea	Chasmanthium latifolium, #1 cont.	CL	2'-0" o.c.	Fully Rooted
0	Ea	Coreopsis verticillata 'Zagreb', #1 cont.	CB	1'-6" o.c.	Fully Rooted
0	Ea	Crataegus viridis 'Winter King', 2-1/2 inch, B&B	CV	Per Plan	6' Branch Height, Well Branched, Matched
16	Ea	Diervilla lonicera, 24 inch spd.	DL	3'-0" o.c.	Minimum 4 Stems, Full
0	Ea	Ginkgo biloba 'Autumn Gold', 3 inch, B&B	GB	Per Plan	1 Central Leader, 7 Branch Height, Well Branched Matched
0	Ea	Helianthus 'Lemon Queen', #1 cont.	HL	2'-0" o.c.	Fully Rooted
0	Ea	Hemerocallis 'Black Eyed Stella', #1 cont.	HB	1'-6" o.c.	Fully Rooted
0	Ea	Hemerocallis 'Happy Returns', #1 cont.	HH	1'-6" o.c.	Fully Rooted
0	Ea	Hemerocallis 'Rosy Returns', #1 cont.	HR	1'-6" o.c.	Fully Rooted
0	Ea	Hydrangea paniculata 'Limelight', 30 inch ht.	HP	4'-0" o.c.	Minimum 3 Stems, Full
0	Ea	Lysimachia clethroides, #1 cont.	LC	2'-0" o.c.	Fully Rooted
0	Ea	Malus 'Prairiefire', 2-1/2 inch, B&B	MP	Per Plan	6' Branch Height, Well Branched, Matched
0	Ea	Miscanthus sinensis 'Purpureascens', #1 cont.	MS	2'-0" o.c.	Fully Rooted
67	Ea	Nepeta x faassennii 'Walker's Low', #1 cont.	NF	2'-0" o.c.	Fully Rooted
11	Ea	Panicum virgatum 'Rostraltbush', #1 cont.			
0	Ea	Physocarpus opulifolius 'Summer Wine', 24 inch ht.			
10	Ea	Rosa 'Knock-out', 24 inch spd.			
141	Ea	Rudbeckia fulgida 'Goldsturm', #1 cont.			
0	Ea	Spiraea japonica 'Little Princess', 15 inch spd.			
5	Ea	Viburnum carlesii, 24 inch ht.			
0	Ea	Zelkova serrata 'Green Vase', 3 inch, B&B			
129	Syd	Mulch, Hardwood Bark, 2 inch Depth			
0	Sit	Seeding, Type 1, Modified			
345	Ft	Landscape Edging			
0	Syd	Topsoil Surface, 4 inch Depth, Modified			
129	Syd	Planting Mixture, 12 inch Depth			
0	LS	Mowing, Modified			
0	LS	Watering and Cultivating, First Season, Modified			

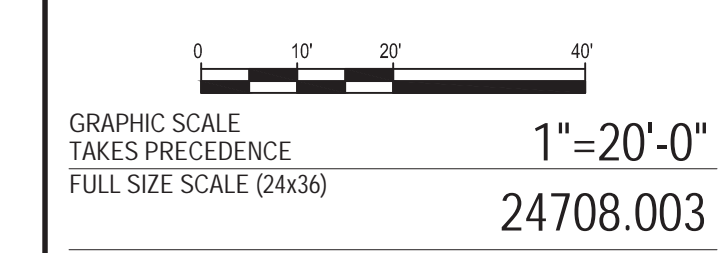
### MIDTOWN LOOP KEY NOTES AND LEGEND

LANDSCAPE KEY NOTES AND LEGEND	
	CONSTRUCTION LIMIT LINE
	RIGHT-OF-WAY LINE
	MATCH LINE
	HORIZONTAL ALIGNMENT
	ADJACENT PROPERTY
	SHADE TREE
	ORNAMENTAL TREE
	DECIDUOUS SHRUB
	SEEDING, TYPE 1, MODIFIED
	PERENNIALS
	LANDSCAPE EDGING

NOTE:  
1. REFER TO G0.7 FOR LANDSCAPE NOTES.



### LANDSCAPE PLAN - AREA H



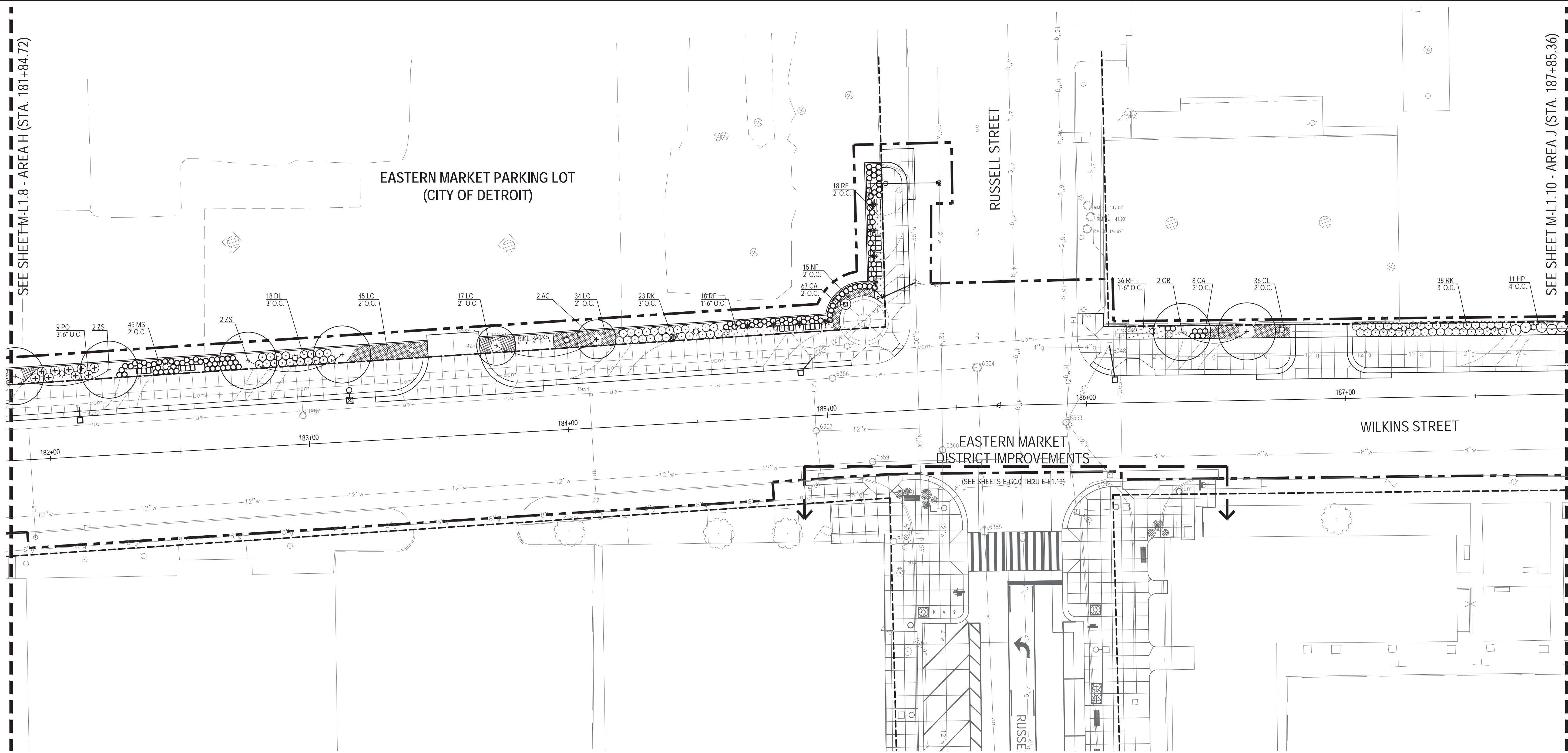
PROJECT NUMBER  
**M-L1.8**

DRAWING NUMBER  
334 of 497



SEE SHEET M-L1.8 - AREA H (STA. 181+84.72)

SEE SHEET M-L1.10 - AREA J (STA. 187+85.36)



# Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



Midtown Detroit, Inc.

## SMITHGROUP JJR

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100% CONSTRUCTION DOCUMENTS	3	APR 01 2013
GRADE INSPECTION	2	JAN 30 2013
80% CONSTRUCTION DOCUMENTS	1	JAN 07 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05 2012

SEALS AND SIGNATURES

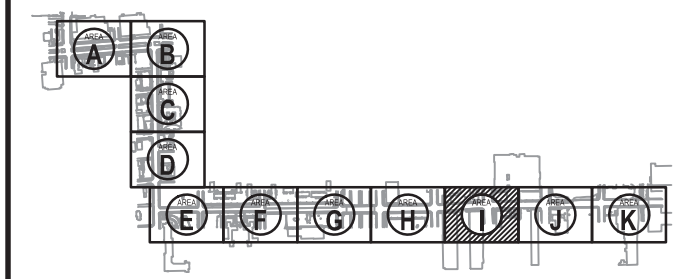
### MIDTOWN LOOP KEY NOTES AND LEGEND

LANDSCAPE KEY NOTES AND LEGEND	
	CONSTRUCTION LIMIT LINE
	RIGHT-OF-WAY LINE
	MATCH LINE
	HORIZONTAL ALIGNMENT
	ADJACENT PROPERTY
	SHADE TREE
	ORNAMENTAL TREE
	DECIDUOUS SHRUB
	SEEDING, TYPE 1, MODIFIED
	PERENNIALS
	LANDSCAPE EDGING

NOTE:  
1. REFER TO G0.7 FOR LANDSCAPE NOTES.

### M-L1.9 - LANDSCAPE

QTY	UNIT	ITEM DESCRIPTION	ABBREVIATION	SPACING	NOTES
0	Ea	_Acer freemanii x 'Autumn Fantasy', 3 inch, B&B	AF	Per Plan	1' Central Leader, 7' Branch Height, Well Branched, Matched
2	Ea	_Aesculus x carnea 'Brioti', 3 inch, B&B	AC	Per Plan	1' Central Leader, 7' Branch Height, Well Branched, Matched
0	Ea	_Agastache x 'Blue Fortune', #1 cont.	AB	1'-6" o.c.	Fully Rooted
0	Ea	_Alchemilla mollis, #1 cont.	AM	1'-6" o.c.	Fully Rooted
75	Ea	_Calamagrostis x acutiflora 'Karl Foerster', #1 cont.	CA	2'-0" o.c.	Fully Rooted
36	Ea	_Chasmanthium latifolium, #1 cont.	CL	2'-0" o.c.	Fully Rooted
0	Ea	_Coreopsis verticillata 'Zagreb', #1 cont.	CB	1'-6" o.c.	Fully Rooted
0	Ea	_Crataegus viridis 'Winter King', 2-1/2 inch, B&B	CV	Per Plan	6' Branch Height, Well Branched, Matched
18	Ea	_Diervilla lonicera, 24 inch spd.	DL	3'-0" o.c.	Minimum 4 Stems, Full
2	Ea	_Ginkgo biloba 'Autumn Gold', 3 inch, B&B	GB	Per Plan	1' Central Leader, 7' Branch Height, Well Branched Matched
0	Ea	_Helianthus 'Lemon Queen', #1 cont.	HL	2'-0" o.c.	Fully Rooted
0	Ea	_Hemerocallis 'Black Eyed Stella', #1 cont.	HB	1'-6" o.c.	Fully Rooted
0	Ea	_Hemerocallis 'Happy Returns', #1 cont.	HH	1'-6" o.c.	Fully Rooted
0	Ea	_Hemerocallis 'Rosy Returns', #1 cont.	HR	1'-6" o.c.	Fully Rooted
11	Ea	_Hydrangea paniculata 'Limelight', 30 inch ht.	HP	4'-0" o.c.	Minimum 3 Stems, Full
96	Ea	_Lysmachia clethroides, #1 cont.	LC	2'-0" o.c.	Fully Rooted
0	Ea	_Malus 'Prairiefire', 2-1/2 inch, B&B	MP	Per Plan	6' Branch Height, Well Branched, Matched
45	Ea	_Miscanthus sinensis 'Purpurascens', #1 cont.	MS	2'-0" o.c.	Fully Rooted
15	Ea	_Nepeta x faassenii 'Walker's Low', #1 cont.	NF	2'-0" o.c.	Fully Rooted
0	Ea	_Panicum virgatum 'Rostralbush', #1 cont.			
9	Ea	_Physocarpus opulifolius 'Summer Wine', 24 inch ht.			
61	Ea	_Rosa 'Knock-out', 24 inch spd.			
54	Ea	_Rudbeckia fulgida 'Goldsturm', #1 cont.			
0	Ea	_Spiraea japonica 'Little Princess', 15 inch spd.			
0	Ea	_Viburnum carlesii, 24 inch ht.			
4	Ea	_Zelkova serrata 'Green Vase', 3 inch, B&B			
298	Syd	Mulch, Hardwood Bark, 2 inch Depth			
0	Sd	_Seeding, Type 1, Modified			
0	Ft	Landscape Edging			
0	Syd	_Topsoil Surface, 4 inch Depth, Modified			
298	Syd	Planting Mixture, 12 inch Depth			
0	LS	_Mowing, Modified			
0	LS	_Watering and Cultivating, First Season, Modified			



### LANDSCAPE PLAN - AREA I

PROJECT NUMBER  
**M-L1.9**

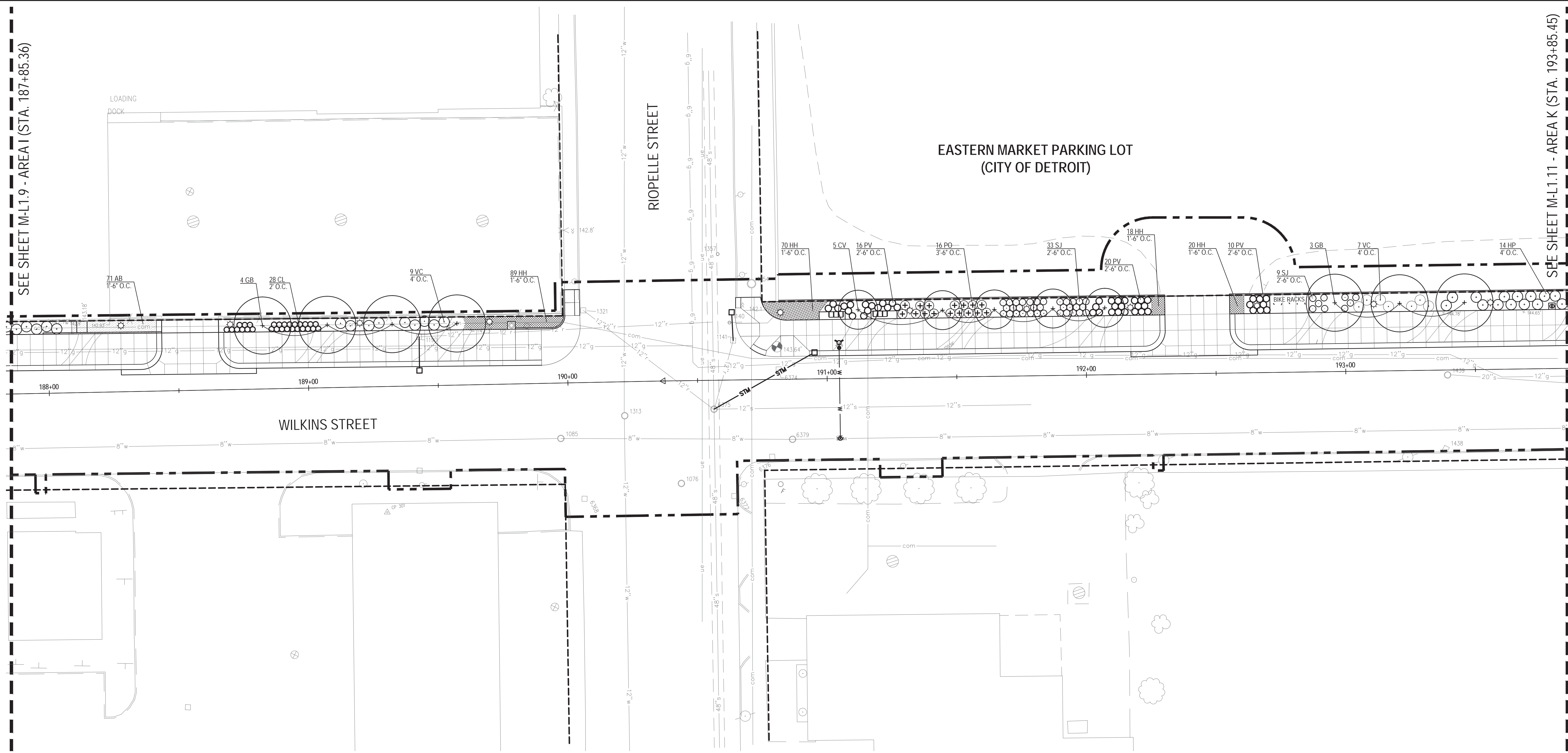
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SEE SHEET M-L1.9 - AREA I (STA. 187+85.36)

SEE SHEET M-L1.11 - AREA K (STA. 193+85.45)



# Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



Midtown Detroit, Inc.

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BIDDING DOCUMENTS	4	MAY 02, 2013
100% CONSTRUCTION DOCUMENTS	3	APR 01, 2013
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80% CONSTRUCTION DOCUMENTS	1	JAN 07, 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05, 2012

SEALS AND SIGNATURES

### MIDTOWN LOOP KEY NOTES AND LEGEND

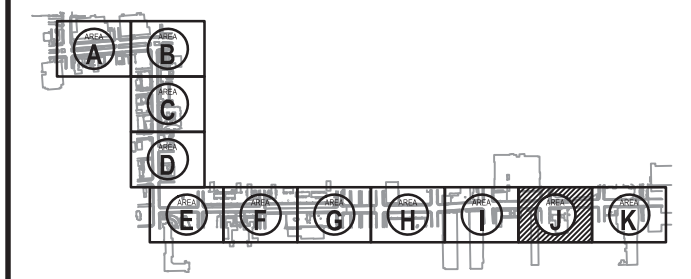
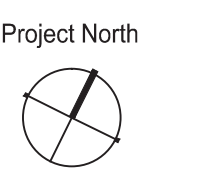
LANDSCAPE KEY NOTES AND LEGEND	
	CONSTRUCTION LIMIT LINE
	RIGHT-OF-WAY LINE
	MATCH LINE
	HORIZONTAL ALIGNMENT
	ADJACENT PROPERTY
	SHADE TREE
	ORNAMENTAL TREE
	DECIDUOUS SHRUB
	SEEDING, TYPE 1, MODIFIED
	PERENNIALS
	LANDSCAPE EDGING

NOTE:  
1. REFER TO G0.7 FOR LANDSCAPE NOTES.

### M-L1.10 - LANDSCAPE

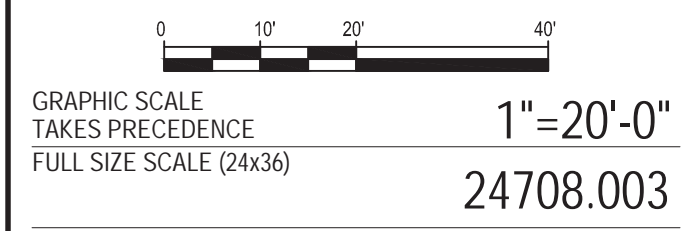
QTY	UNIT	ITEM DESCRIPTION	ABBREVIATION	SPACING	NOTES
0	Ea	Acer freemanii x 'Autumn Fantasy', 3 inch, B&B	AF	Per Plan	1 Central Leader, 7' Branch Height, Well Branched, Matched
0	Ea	Aesculus x carnea 'Briotii', 3 inch, B&B	AC	Per Plan	1 Central Leader, 7' Branch Height, Well Branched, Matched
71	Ea	Agastache x 'Blue Fortune', #1 cont.	AB	1'-6" o.c.	Fully Rooted
0	Ea	Alchemilla mollis, #1 cont.	AM	1'-6" o.c.	Fully Rooted
0	Ea	Calamagrostis x acutiflora 'Karl Foerster', #1 cont.	CA	2'-0" o.c.	Fully Rooted
28	Ea	Chasmanthium latifolium, #1 cont.	CL	2'-0" o.c.	Fully Rooted
0	Ea	Coreopsis verticillata 'Zagreb', #1 cont.	CB	1'-6" o.c.	Fully Rooted
5	Ea	Crataegus viridis 'Winter King', 2-1/2 inch, B&B	CV	Per Plan	6' Branch Height, Well Branched, Matched
0	Ea	Dienella ionocera, 24 inch spd.	DL	3'-0" o.c.	Minimum 4 Stems, Full
7	Ea	Ginkgo biloba 'Autumn Gold', 3 inch, B&B	GB	Per Plan	1 Central Leader, 7' Branch Height, Well Branched Matched
0	Ea	Helianthus 'Lemon Queen', #1 cont.	HL	2'-0" o.c.	Fully Rooted
0	Ea	Hemerocallis 'Black Eyed Stella', #1 cont.	HB	1'-6" o.c.	Fully Rooted
197	Ea	Hemerocallis 'Happy Returns', #1 cont.	HH	1'-6" o.c.	Fully Rooted
0	Ea	Hemerocallis 'Rosy Returns', #1 cont.	HR	1'-6" o.c.	Fully Rooted
14	Ea	Hydrangea paniculata 'Limelight', 30 inch ht.	HP	4'-0" o.c.	Minimum 3 Stems, Full
0	Ea	Lysimachia clethroides, #1 cont.	LC	2'-0" o.c.	Fully Rooted
0	Ea	Malus 'Prairiefire', 2-1/2 inch, B&B	MP	Per Plan	6' Branch Height, Well Branched, Matched
0	Ea	Miscanthus sinensis 'Purpureascens', #1 cont.	MS	2'-0" o.c.	Fully Rooted
0	Ea	Nepeta x faassenii 'Walker's Low', #1 cont.	NF	2'-0" o.c.	Fully Rooted
46	Ea	Panicum virgatum 'Rostrahlbush', #1 cont.			
16	Ea	Physocarpus opulifolius 'Summer Wine', 24 inch ht.			
0	Ea	Rosa 'Knock-out', 24 inch spd.			
0	Ea	Rudbeckia fulgida 'Goldsturm', #1 cont.			
42	Ea	Spiraea japonica 'Little Princess', 15 inch spd.			
16	Ea	Viburnum carlesii, 24 inch ht.			
0	Ea	Zelkova serrata 'Green Vase', 3 inch, B&B			
310	Syd	Mulch, Hardwood Bark, 2 inch Depth			
0	Sit	Seeding, Type 1, Modified			
0	Ft	Landscape Edging			
0	Syd	Topsoil Surface, 4 inch Depth, Modified			
310	Syd	Planting Mixture, 12 inch Depth			
0	LS	Mowing, Modified			
0	LS	Watering and Cultivating, First Season, Modified			

KEY PLAN



DRAWING TITLE

### LANDSCAPE PLAN - AREA J



PROJECT NUMBER

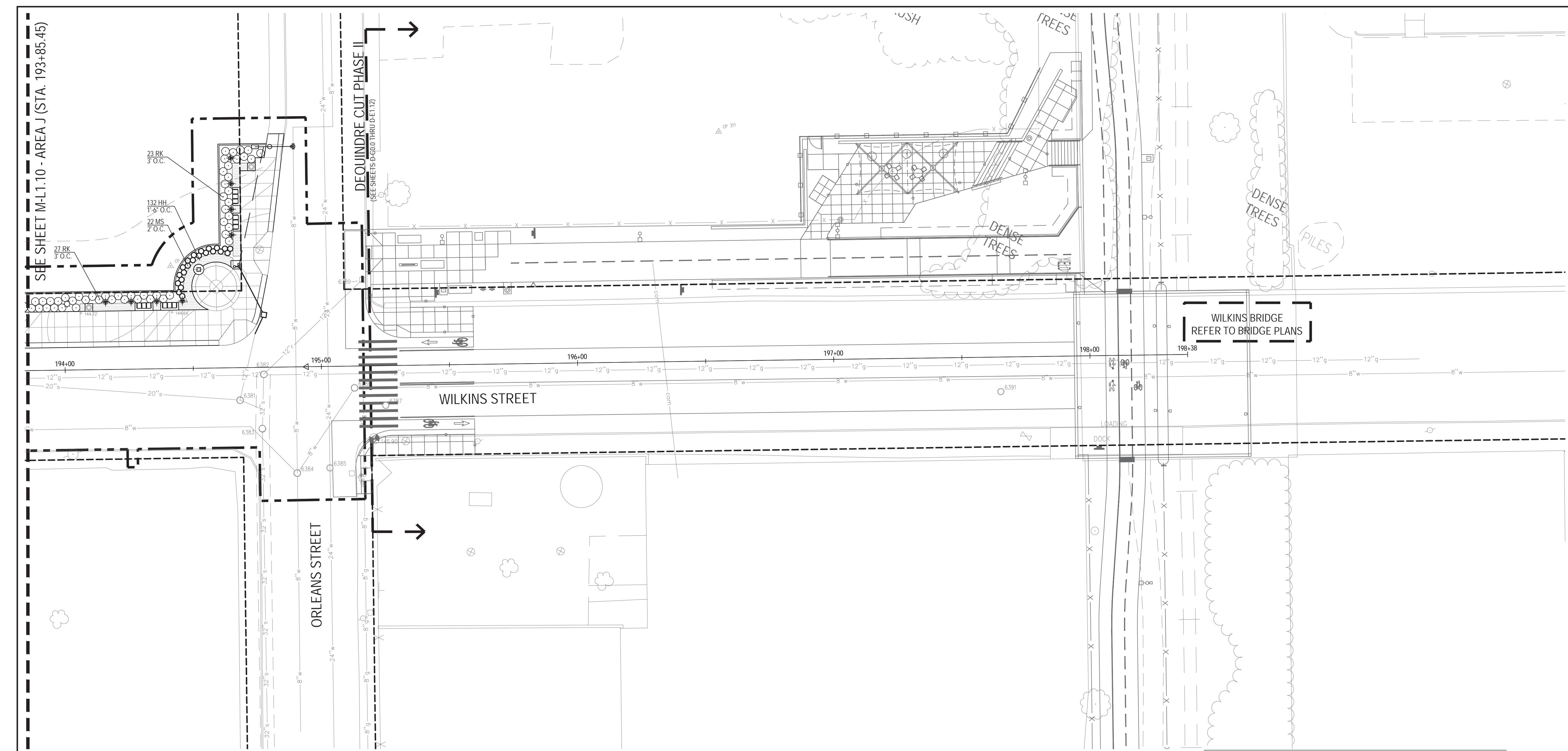
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SEE SHEET M-L1.10 - AREA J (STA. 193+85.45)

**MIDTOWN LOOP KEY NOTES AND LEGEND**

LANDSCAPE KEY NOTES AND LEGEND	
	CONSTRUCTION LIMIT LINE
	RIGHT-OF-WAY LINE
	MATCH LINE
	HORIZONTAL ALIGNMENT
	ADJACENT PROPERTY
	SHADE TREE
	ORNAMENTAL TREE
	DECIDUOUS SHRUB
	SEEDING, TYPE 1, MODIFIED
	PERENNIALS
	LANDSCAPE EDGING

NOTE:  
1. REFER TO G0.7 FOR LANDSCAPE NOTES.

**M-L1.11- LANDSCAPE**

QTY	UNIT	ITEM DESCRIPTION	ABBREVIATION	SPACING	NOTES
0	Ea	Acer freemanii x 'Autumn Fantasy', 3 inch, B&B	AF	Per Plan	1 Central Leader, 7' Branch Height, Well Branched, Matched
0	Ea	Aesculus x carnea 'Briot', 3 inch, B&B	AC	Per Plan	1 Central Leader, 7' Branch Height, Well Branched, Matched
0	Ea	Agastache x 'Blue Fortune', #1 cont.	AB	1'-6" o.c.	Fully Rooted
0	Ea	Alchemilla mollis, #1 cont.	AM	1'-6" o.c.	Fully Rooted
0	Ea	Calamagrostis x acutiflora 'Karl Foerster', #1 cont.	CA	2'-0" o.c.	Fully Rooted
0	Ea	Chasmanthium latifolium, #1 cont.	CL	2'-0" o.c.	Fully Rooted
0	Ea	Coreopsis verticillata 'Zagreb', #1 cont.	CB	1'-6" o.c.	Fully Rooted
0	Ea	Crataegus viridis 'Winter King', 2-1/2 inch, B&B	CV	Per Plan	6' Branch Height, Well Branched, Matched
0	Ea	Diervilla lonicera, 24 inch spd.	DL	3'-0" o.c.	Minimum 4 Stems, Full
0	Ea	Ginkgo biloba 'Autumn Gold', 3 inch, B&B	GB	Per Plan	1 Central Leader, 7' Branch Height, Well Branched Matched
0	Ea	Helianthus 'Lemon Queen', #1 cont.	HL	2'-0" o.c.	Fully Rooted
0	Ea	Hemerocallis 'Black Eyed Stella', #1 cont.	HB	1'-6" o.c.	Fully Rooted
132	Ea	Hemerocallis 'Happy Returns', #1 cont.	HH	1'-6" o.c.	Fully Rooted
0	Ea	Hemerocallis 'Rosy Returns', #1 cont.	HR	1'-6" o.c.	Fully Rooted
0	Ea	Hydrangea paniculata 'Limelight', 30 inch ht.	HP	4'-0" o.c.	Minimum 3 Stems, Full
0	Ea	Lysimachia clethroides, #1 cont.	LC	2'-0" o.c.	Fully Rooted
0	Ea	Malus 'Prairiefire', 2-1/2 inch, B&B	MP	Per Plan	6' Branch Height, Well Branched, Matched
22	Ea	Miscanthus sinensis 'Purpurascens', #1 cont.	MS	2'-0" o.c.	Fully Rooted
0	Ea	Nepeta x faassennii 'Walker's Low', #1 cont.	NF	2'-0" o.c.	Fully Rooted
0	Ea	Panicum virgatum 'Rostrahlbush', #1 cont.			
0	Ea	Physocarpus opulifolius 'Summer Wine', 24 inch ht.			
50	Ea	Rosa 'Knock-out', 24 inch spd.			
0	Ea	Rudbeckia fulgida 'Goldsturm', #1 cont.			
0	Ea	Spiraea japonica 'Little Princess', 15 inch spd.			
0	Ea	Viburnum carlesii, 24 inch ht.			
0	Ea	Zelkova serrata 'Green Vase', 3 inch, B&B			
108	Syd	Mulch, Hardwood Bark, 2 inch Depth			
0	Sit	Seeding, Type 1, Modified			
0	Pt	Landscape Edging			
0	Syd	Topsail Surface, 4 inch Depth, Modified			
108	Syd	Planting Mixture, 12 inch Depth			
0	LS	Mowing, Modified			
0	LS	Watering and Cultivating, First Season, Modified			

**Midtown Loop Phase IV**

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



Midtown Detroit, Inc.

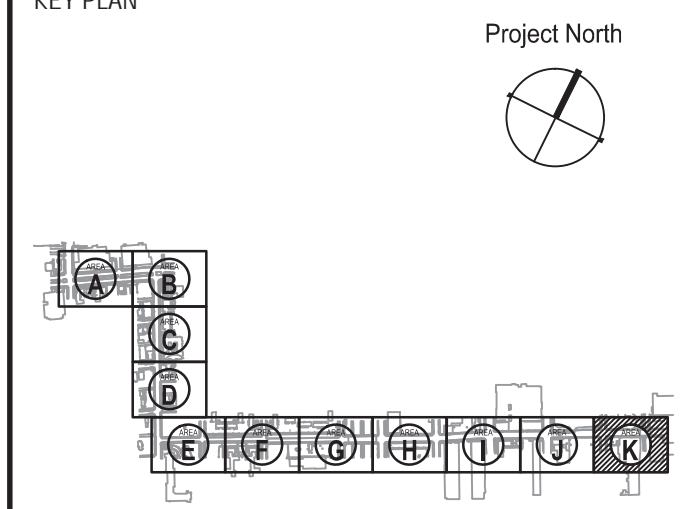
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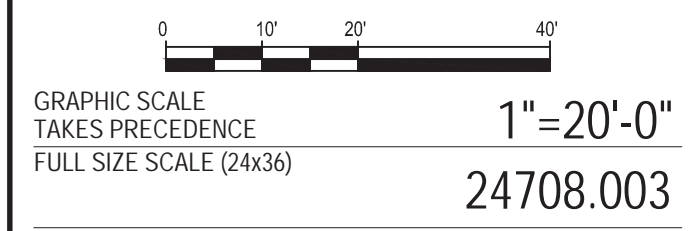
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50% CONSTRUCTION DOCUMENTS	0	NOV 05, 2012

SEALS AND SIGNATURES

KEY PLAN



**LANDSCAPE PLAN - AREA K**



PROJECT NUMBER



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**M-L1.11**

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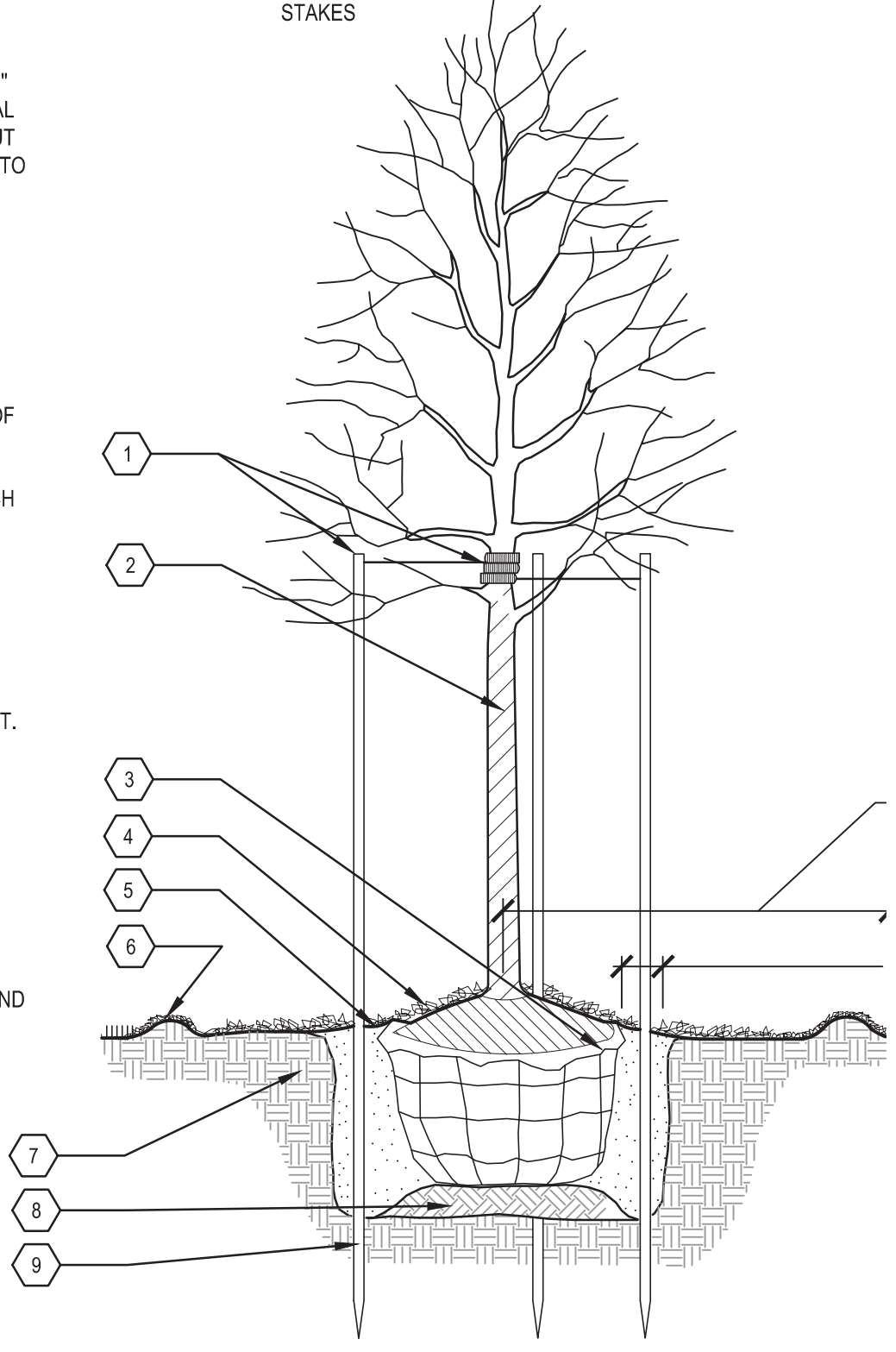
SCHEDULES

SIZE	STAKING / GUYING	MULCH SAUCER DIMENSION
• 2" CAL. & SMALLER	• DOUBLE STAKE	• 4' DIA.
• BETWEEN 2.5" & 3.5" CAL.	• TRIPLE STAKE	• 5' DIA.
• 4" CAL. - 6" CAL.	• TRIPLE GUY	• MIN. 8' DIA.- EXTEND OUTSIDE DIAMETER TO INCLUDE GUYING STAKES

NOTES:  
TRIPLE STAKE TREES BETWEEN 2" AND 4" CAL. SET STAKES VERTICAL AND AT SAME HEIGHT. NEVER CUT CENTRAL LEADERS PRUNE ONLY TO REMOVE DEAD OR DAMAGED BRANCHES.

- 1 TOP OF STAKES AND GUYS TO BE SET ABOVE FIRST BRANCHES
- 2 TREE WRAP
- 3 REMOVE BURLAP FROM TOP 1/3 OF BALL
- 4 2" DEEP COMPOSTED BARK MULCH DO NOT PLACE MULCH AGAINST COLLAR OF TREE
- 5 SET CROWN OF BALL AT FINISH GRADE
- 6 MOUND PLANTING BACKFILL TO FORM SAUCER AROUND PLANT PIT. SET SAUCER OUTSIDE OF GUY STAKES
- 7 UNDISTURBED GROUND
- 8 SCARIFY TO 4" DEPTH AND RE-COMPACT.
- 9 STAKES TO EXTEND 12" BELOW TREE PIT IN UNDISTURBED GROUND

NOTES:  
NEVER CUT CENTRAL LEADERS. PRUNE ONLY TO REMOVE DEAD OR DAMAGED BRANCHES. SET TREE STAKES VERTICAL AND AT SAME HEIGHT.



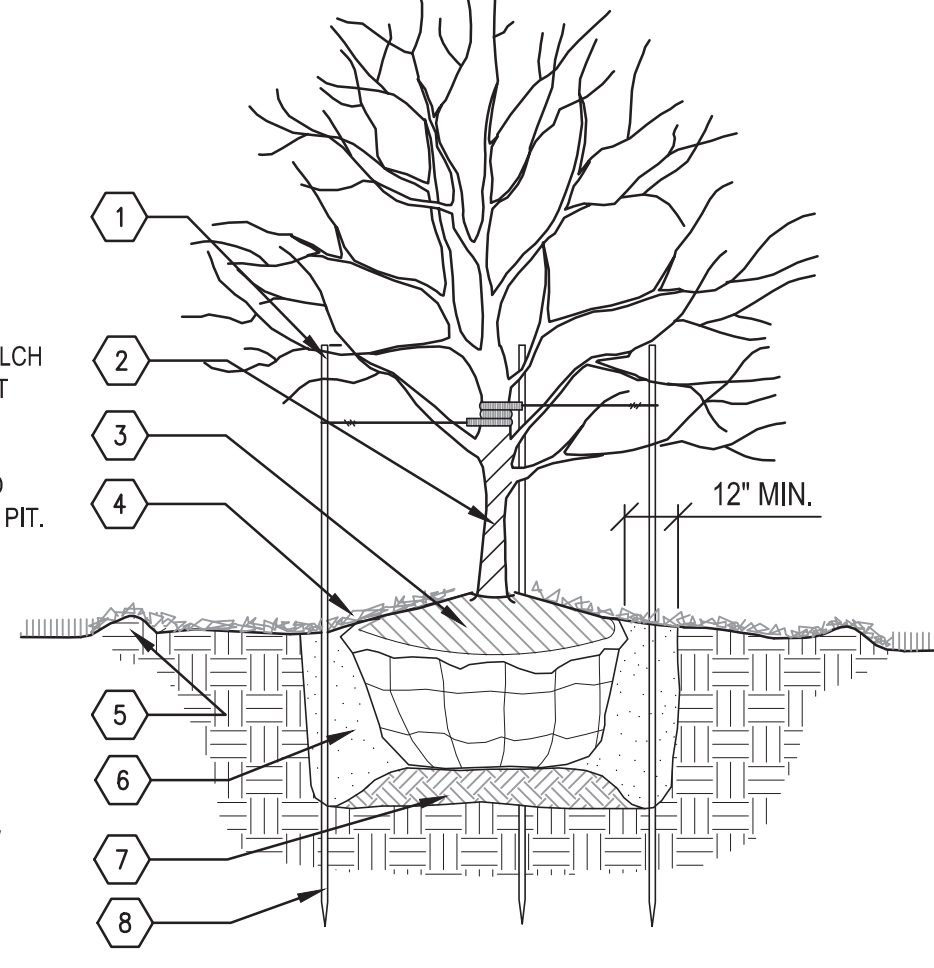
1 DECIDUOUS TREE PLANTING SECTION NTS

SCHEDULES

SIZE	STAKING	MULCH SAUCER DIMENSION
• UP TO 2" CAL.	• DOUBLE STAKE	• 4' DIA.
• 2" CAL. AND LARGER	• TRIPLE STAKE	• 5' DIA.

- 1 STAKE TREE ABOVE FIRST BRANCHES, MIN. 1/2 UP TREE
- 2 TREE WRAP
- 3 REMOVE BURLAP FROM TOP 1/3 OF BALL
- 4 2" DEEP COMPOSTED BARK MULCH DO NOT PLACE MULCH AGAINST COLLAR OF TREE
- 5 MOUND PLANTING BACKFILL TO FORM SAUCER AROUND PLANT PIT. SET SAUCER OUTSIDE OF GUY STAKES
- 6 PLANTING MIXTURE, AS SPECIFIED
- 7 SCARIFY TO 4" DEPTH AND RE-COMPACT
- 8 STAKES TO EXTEND 12" BELOW TREE PIT IN UNDISTURBED GROUND

NOTES:  
NEVER CUT CENTRAL LEADERS. PRUNE ONLY TO REMOVE DEAD OR DAMAGED BRANCHES. SET TREE STAKES VERTICAL AND AT SAME HEIGHT.



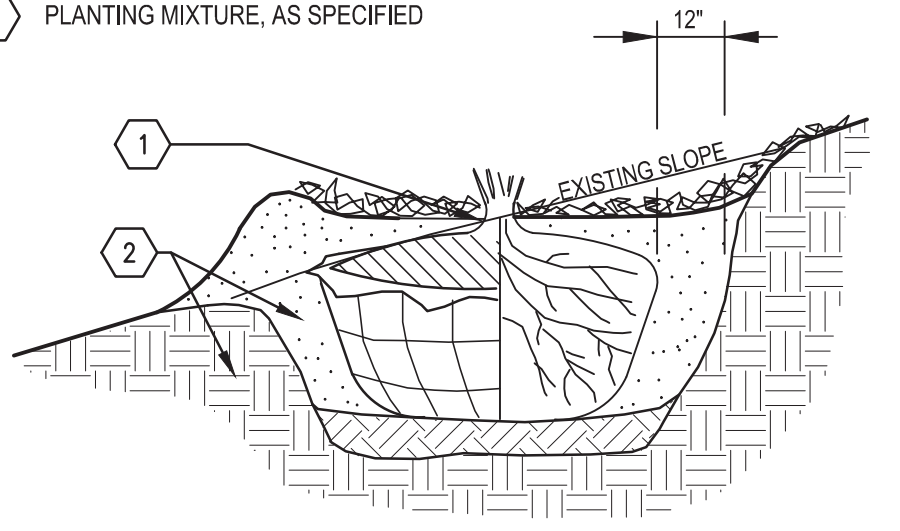
2 ORNAMENTAL TREE PLANTING SECTION NTS

NOTES:

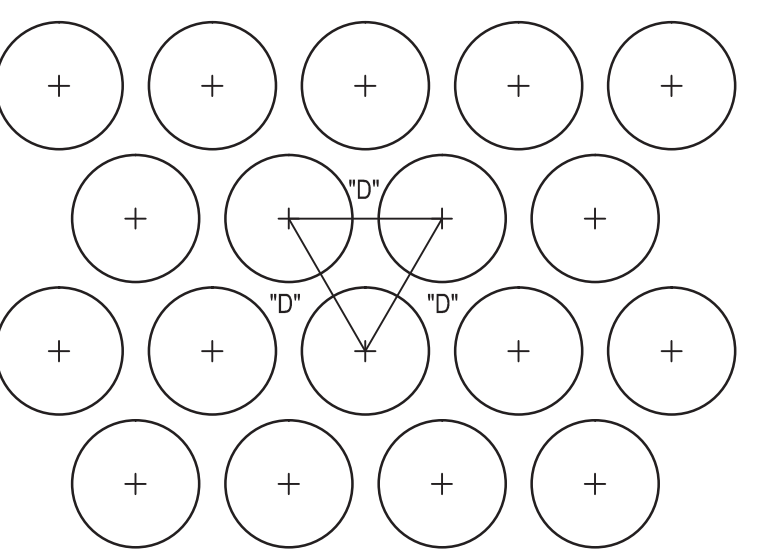
- 1. DO NOT PRUNE SHRUBS EXCEPT TO REMOVE DEAD OR BROKEN BRANCHES
- 2. REMOVE BURLAP FROM TOP 1/3 OF BALL. OR, WITH CONTAINER PLANTS, REMOVE POTS AND SPLIT BALLS
- 1 2" DEEP COMPOSTED BARK MULCH DO NOT PLACE MULCH AGAINST COLLAR OF SHRUB
- 2 PLANTING MIXTURE, AS SPECIFIED
- 3 BALLED & BURLAPPED SHRUB
- 4 SCARIFY TO 4" DEPTH AND RE-COMPACT
- 5 SUBGRADE
- 6 BARE ROOT CONTAINER SHRUBS

NOTE:  
PLANT SHALL BEAR SAME RELATION TO FINISHED GRADE AS IT BORE TO PREVIOUS GRADE.

- 1 SET ROOT COLLAR AT SLOPE LINE
- 2 PLANTING MIXTURE, AS SPECIFIED



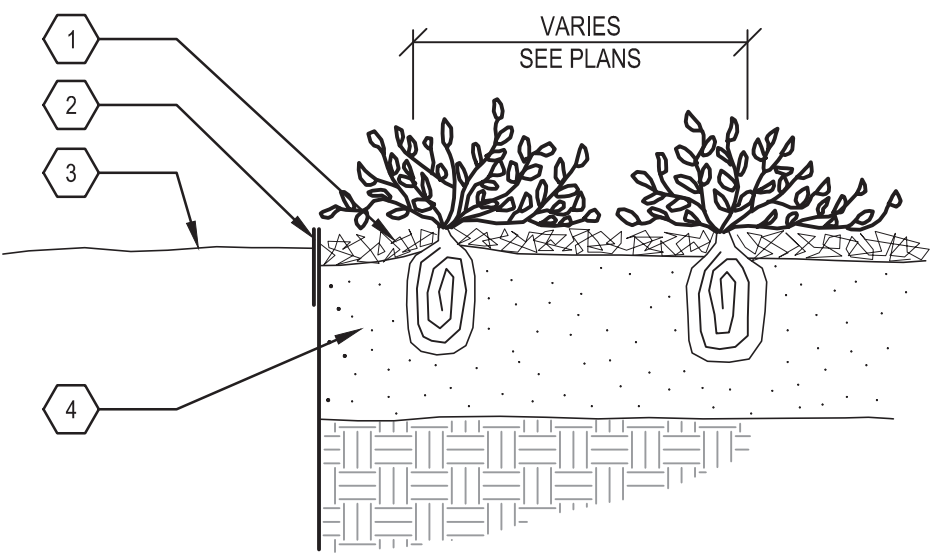
5 PLANTING ON SLOPES SECTION NTS



D=DIMENSION OF PLANT SPACING (SHRUB, GROUND COVER OR PERENNIAL) IN BED PLANTINGS

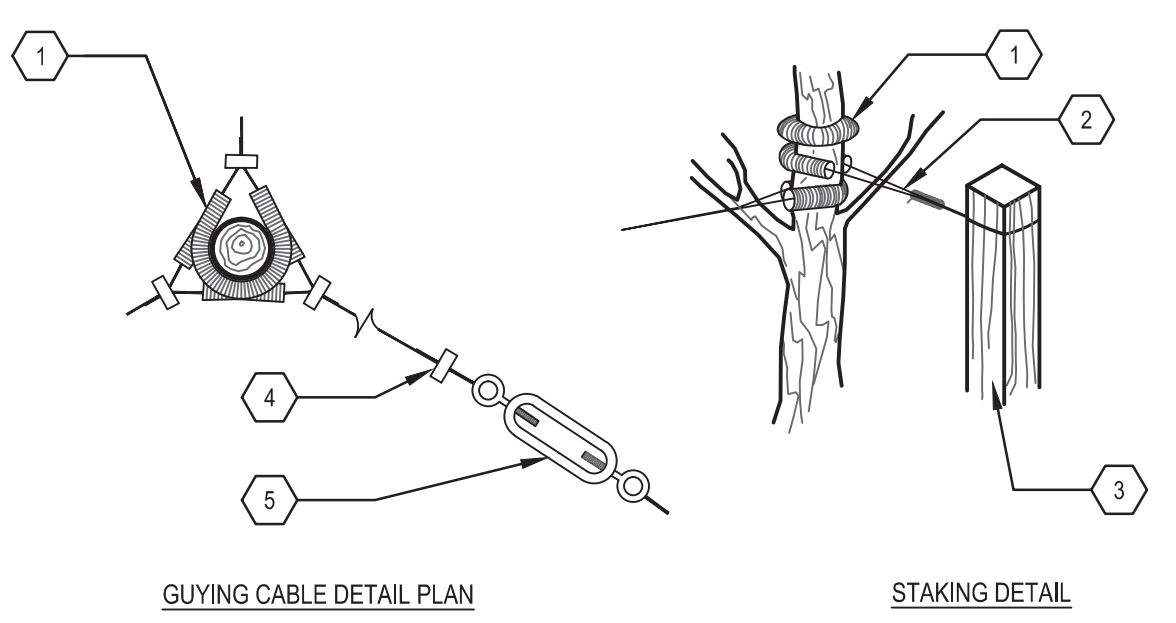
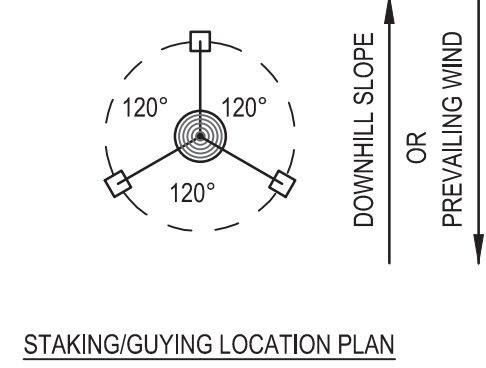
6 PERENNIAL-GROUND COVER PLANTING PLAN NTS

5 SHRUB BED PLANTING DETAIL SECTION NTS



- 1 2" OF MULCH ON ENTIRE BED
- 2 LANDSCAPE EDGING (8 M.L.T.12)
- 3 FINISHED GRADE
- 4 PLANTING MIXTURE, AS SPECIFIED

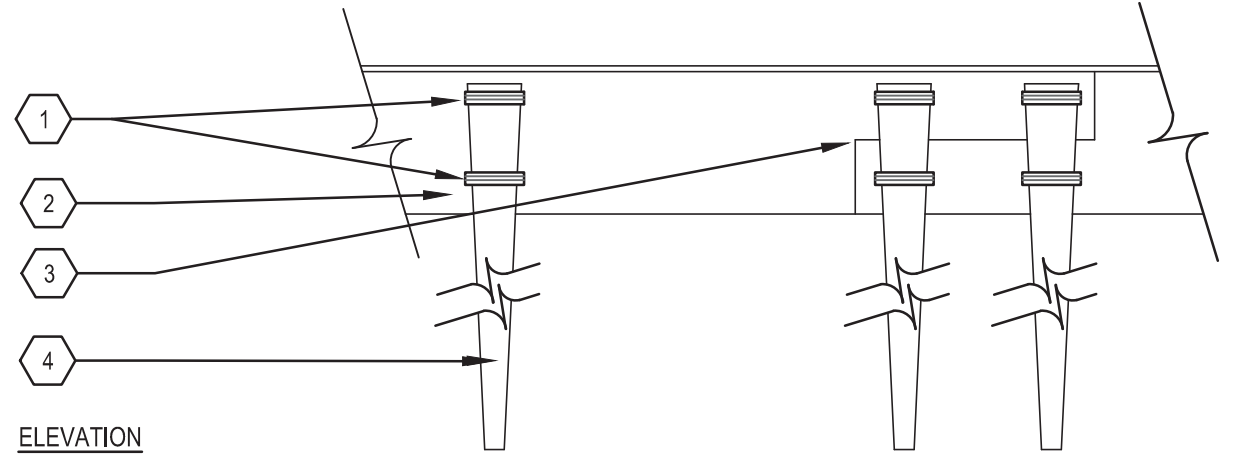
7 PERENNIAL-GROUND COVER PLANTING SECTION NTS



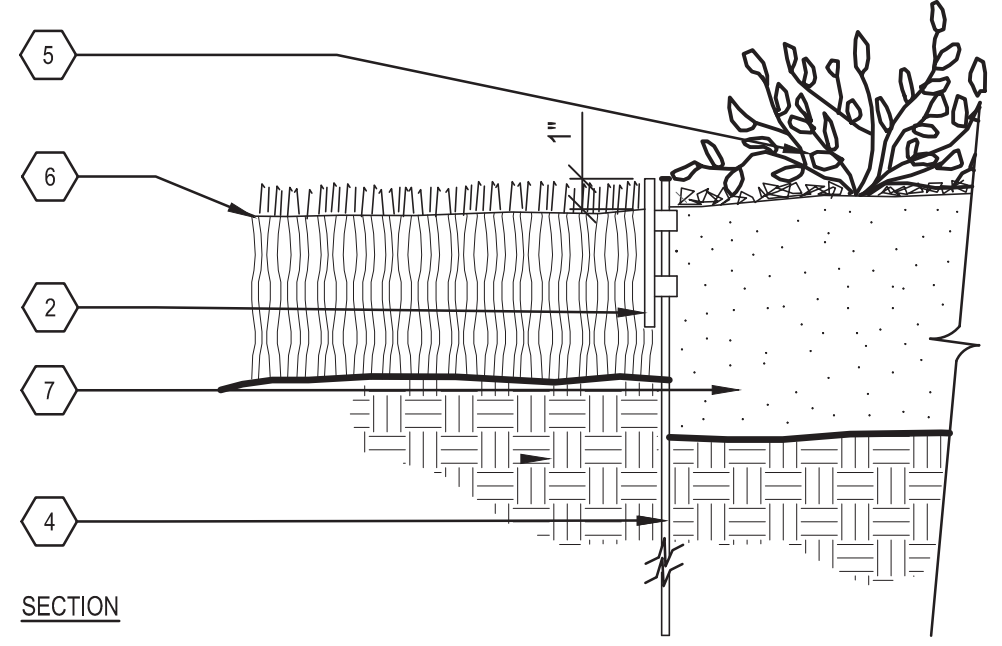
NOTES:  
1. ORIENT STAKING/GUYING TO PREVAILING WINDS, EXCEPT ON SLOPES GREATER THAN 3:1 ORIENT TO SLOPE.  
2. USE SAME STAKING/GUYING ORIENTATION FOR ALL PLANTS WITHIN EACH GROUPING OR AREA

- 1 RUBBER HOSE CHAFING GUARD 2-PLY, COLOR BLACK
- 2 DOUBLE STRAND #12 GALV. WIRE, NEATLY TWISTED
- 3 STAKES AS SPECIFIED 3 PER TREE
- 4 GUYING CABLES SECURED W/ CLAMPS, AS SPECIFIED
- 5 TURNBUCKLE AS SPECIFIED

3 TREE STAKING SECTION & PLAN NTS



- 1 PUNCHED SLOTS, 30" O.C.
- 2 3/16" x 4" BLACK STEEL EDGING
- 3 FLUSH OVERLAP JOINT ASSEMBLY
- 4 24" STAKES
- 5 PLANT BED
- 6 FINISHED GRADE
- 7 PLANTING MIXTURE, AS SPECIFIED



8 LANDSCAPE EDGING SECTION NTS

Midtown Loop Phase IV

Midtown Loop Detroit, Michigan



Owners:



City of Detroit



Midtown Detroit, Inc.

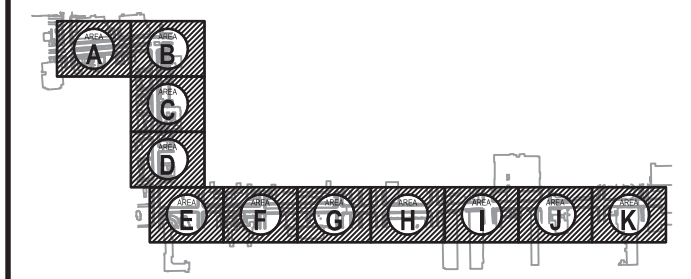
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SEALS AND SIGNATURES

KEY PLAN



DRAWING TITLE  
LANDSCAPE DETAILS

GRAPHIC SCALE TAKES PRECEDENCE FULL SIZE SCALE (24x36) AS NOTED 24708.003

PROJECT NUMBER  
DRAWING NUMBER  
M-L1.12  
388 of 497



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# Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



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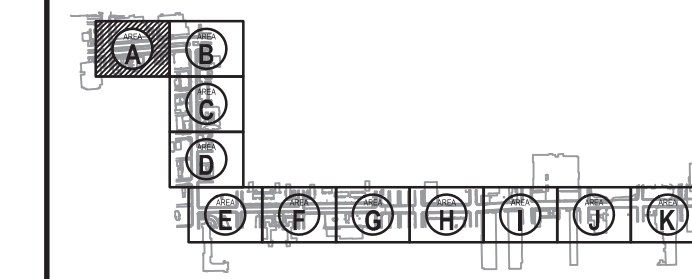
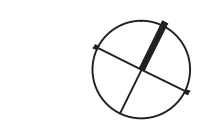
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SEALS AND SIGNATURES

KEY PLAN

Project North



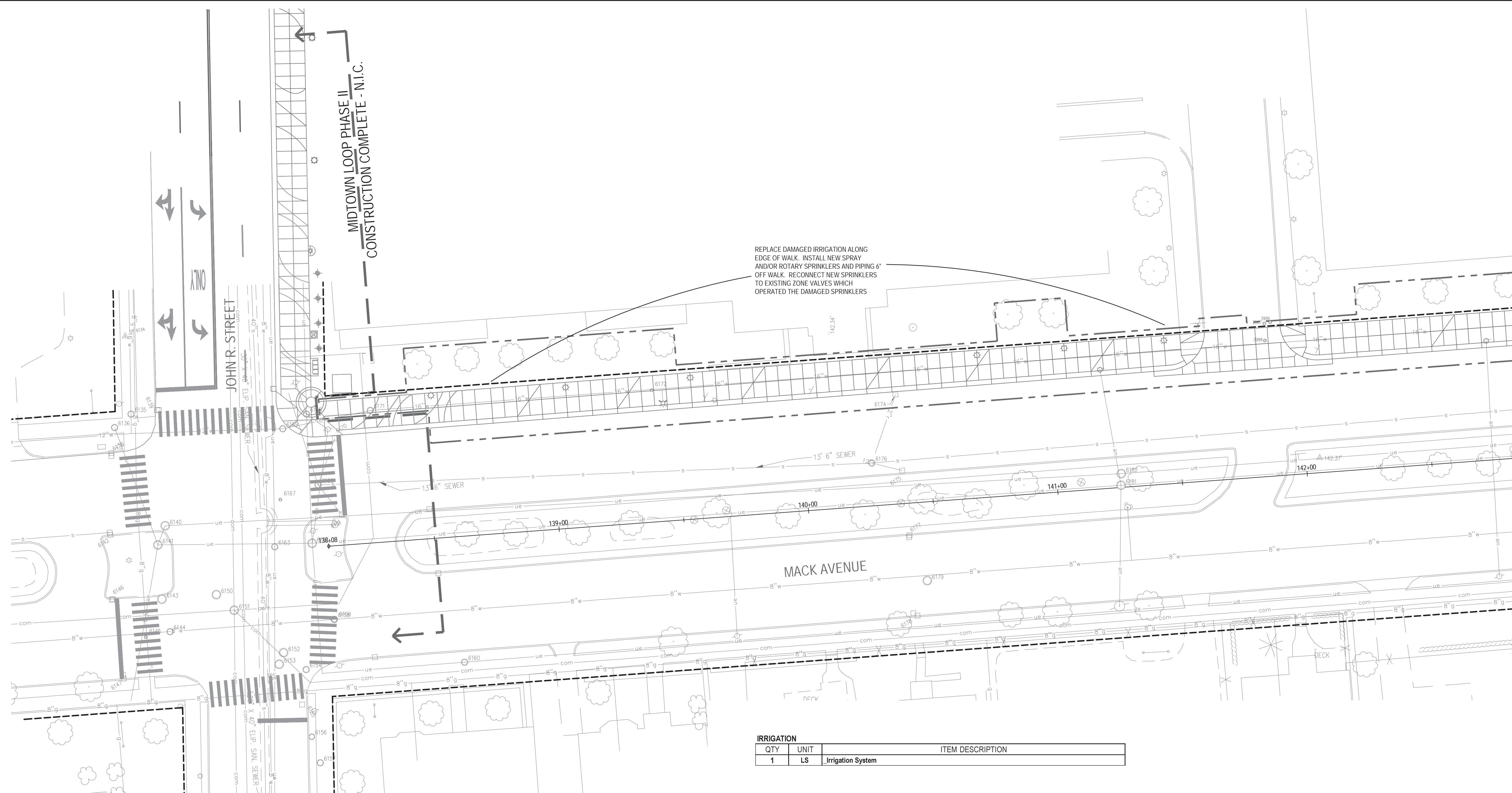
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**IRRIGATION PLAN - AREA A**

GRAPHIC SCALE  
TAKES PRECEDENCE  
FULL SIZE SCALE (24x36)  
1" = 20'-0"  
24708.003

PROJECT NUMBER  
**M-I1.1**  
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REPLACE DAMAGED IRRIGATION ALONG EDGE OF WALK. INSTALL NEW SPRAY AND/OR ROTARY SPRINKLERS AND PIPING 6" OFF WALK. RECONNECT NEW SPRINKLERS TO EXISTING ZONE VALVES WHICH OPERATED THE DAMAGED SPRINKLERS

QTY	UNIT	ITEM DESCRIPTION
1	LS	Irrigation System

### MIDTOWN LOOP KEY NOTES AND LEGEND

IRRIGATION PLAN LEGEND			
	CONSTRUCTION LIMIT LINE		_TRASH RECEPTACLE, TYPE M
	RIGHT-OF-WAY LINE		_WAYFINDING COLUMN, FOUNDATION
	MATCH LINE		_FIXTURE TYPE M1 (REFER TO ELECTRICAL PLANS)
	HORIZONTAL ALIGNMENT		_FIXTURE TYPE M2, PLD (REFER TO ELECTRICAL PLANS)
	ADJACENT PROJECT		_FIXTURE TYPE M3 (REFER TO ELECTRICAL PLANS)
	_SIDEWALK RAMP, ADA, MODIFIED (R-28-H)		_FIXTURE TYPE M2, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)
	_BENCH, TYPE M		_STREET LIGHT, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)
	_BIKE RACK, TYPE M		WATERLINE TAP
	_DOG LITTER RECEPTACLE, TYPE M		1" TYPE 'K' HARD COPPER PIPE
	_DRINKING FOUNTAIN		20" MINIMUM MANHOLE BOX AND COVER

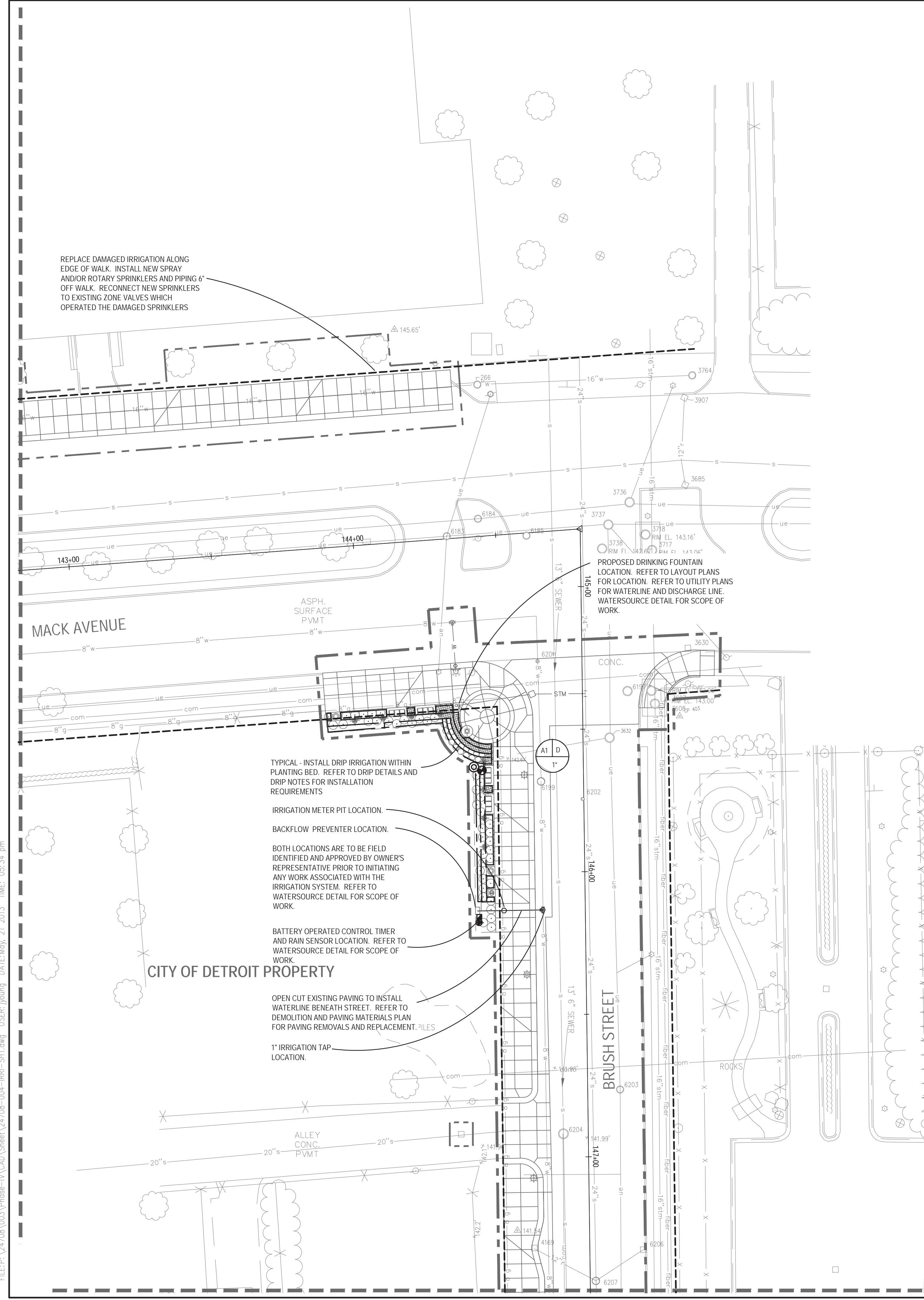
REFER TO DRAWING G0.7 FOR IRRIGATION NOTES.

### APPROVED MANUFACTURERS

KEY	EQUIPMENT	HUNTER	RAINBIRD	TORO
	Automatic Control Valve	Drip kit, see notes	Drip kit, see notes	Drip kit, see notes
	Drip zones	PGV	PGA	252
	Sprinkler zones	PROS-04-PRS30 Pro-Spray Fixed Nozzles	Rainbird 1804-PRS MPR Nozzles	570Z-PR4P MPR Plus Nozzles
	4" Pop Up Spray w/	12 Series Nozzle	12 Series Nozzle	12 Series Nozzle
	12' Radius Nozzle	10 Series Nozzle	10 Series Nozzle	10 Series Nozzle
	10' Radius Nozzle	SS-530 Side, ES-515 End	15 SST, 15 EST	4 SST, 4 EST
	Strip Spray Nozzle	HQ5-RC	Rainbird 5RC	HQ-5LRC
	Quick Coupling Valve	I-CORE-2400-M	ESP-LXME, 24 Sta.	CC-M-24
	Control Timer	XC-Hybrid	TBOS-II	Junior DC
	Battery Control Timer	Solar sync	WR-2	TWRS
	Rain Sensor			
	Zone and valve designation Z-Zone number, G-Gallons, VS-Valve size			

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MIDTOWN LOOP KEY NOTES AND LEGEND

IRRIGATION PLAN LEGEND			
	CONSTRUCTION LIMIT LINE		_TRASH RECEPTACLE, TYPE M
	RIGHT - OF - WAY LINE		_WAYFINDING COLUMN, FOUNDATION
	MATCH LINE		_FIXTURE TYPE M1 (REFER TO ELECTRICAL PLANS)
	HORIZONTAL ALIGNMENT		_FIXTURE TYPE M2, PLD (REFER TO ELECTRICAL PLANS)
	ADJACENT PROJECT		_FIXTURE TYPE M3 (REFER TO ELECTRICAL PLANS)
	_SIDEWALK RAMP, ADA, MODIFIED (R-28-H)		_FIXTURE TYPE M2, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)
	_BENCH, TYPE M		_STREET LIGHT, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)
	_BIKE RACK, TYPE M		PRENNIALS
	_DOG LITTER RECEPTACLE, TYPE M		WATERLINE TAP
	_DRINKING FOUNTAIN		1" TYPE 'K' HARD COPPER PIPE
			20" MINIMUM MANHOLE BOX AND COVER

APPROVED MANUFACTURERS

KEY	EQUIPMENT	HUNTER	RAINBIRD	TORO
	Automatic Control Valve			
	Drip zones	Drip kit, see notes	Drip kit, see notes	Drip kit, see notes
	Sprinkler zones	PGV	PGA	252
	4" Pop Up Spray w/	PROS-04-PRS30	Rainbird 1804-PRS	570Z-PR4P
	12' Radius Nozzle	Pro-Spray Fixed Nozzles	MPR Nozzles	MPR Plus Nozzles
	10' Radius Nozzle	12 Series Nozzle	12 Series Nozzle	12 Series Nozzle
	Strip Spray Nozzle	10 Series Nozzle	10 Series Nozzle	10 Series Nozzle
	Quick Coupling Valve	SS-530 Side, ES-515 End	15 SST, 15 EST	4 SST, 4 EST
	Control Timer	HQ5-RC	Rainbird 5RC	HQ-5LRC
	Battery Control Timer	I-CORE-2400-M	ESP-LXME, 24 Stk.	CC-M-24
	Rain Sensor	XC-Hybrid	TBOS-II	Junior DC
		Solar sync	WR-2	TWRS
	Zone and valve designation Z-Zone number, G-Gallons, VS-Valve size			

Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



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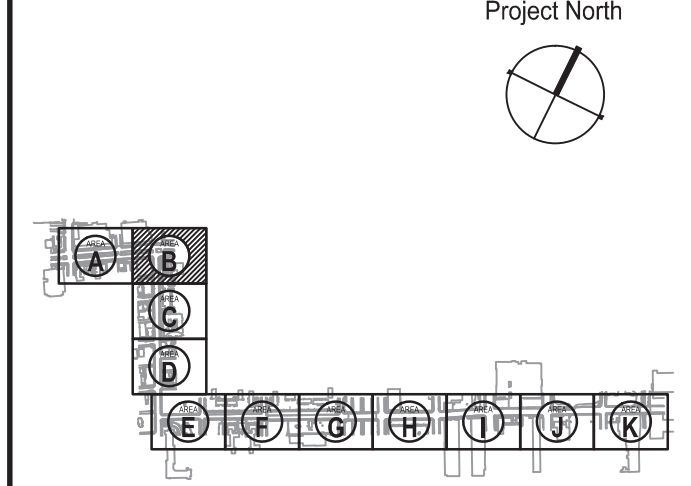
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SEALS AND SIGNATURES

KEY PLAN



DRAWING TITLE  
IRRIGATION PLAN - AREA B

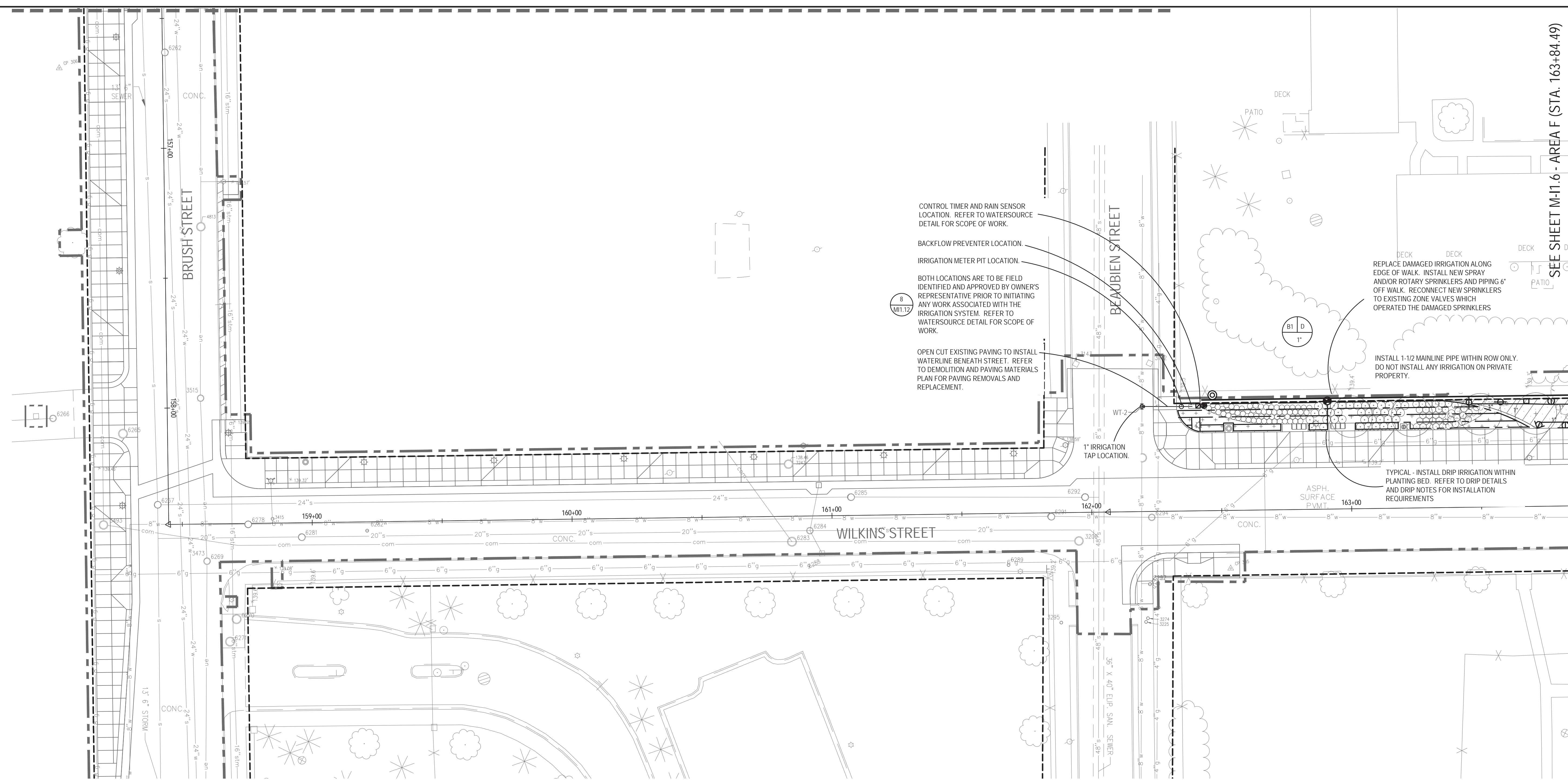
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TAKES PRECEDENCE  
FULL SIZE SCALE (24x36)  
1" = 20'-0"  
24708.003

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M-11.2  
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SEE SHEET M-11.6 - AREA F (STA. 163+84.49)

CONTROL TIMER AND RAIN SENSOR LOCATION. REFER TO WATERSOURCE DETAIL FOR SCOPE OF WORK.

BACKFLOW PREVENTER LOCATION.

IRRIGATION METER PIT LOCATION.

BOTH LOCATIONS ARE TO BE FIELD IDENTIFIED AND APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO INITIATING ANY WORK ASSOCIATED WITH THE IRRIGATION SYSTEM. REFER TO WATERSOURCE DETAIL FOR SCOPE OF WORK.

OPEN CUT EXISTING PAVING TO INSTALL WATERLINE BENEATH STREET. REFER TO DEMOLITION AND PAVING MATERIALS PLAN FOR PAVING REMOVALS AND REPLACEMENT.

REPLACE DAMAGED IRRIGATION ALONG EDGE OF WALK. INSTALL NEW SPRAY AND/OR ROTARY SPRINKLERS AND PIPING 6" OFF WALK. RECONNECT NEW SPRINKLERS TO EXISTING ZONE VALVES WHICH OPERATED THE DAMAGED SPRINKLERS

INSTALL 1-1/2 MAINLINE PIPE WITHIN ROW ONLY. DO NOT INSTALL ANY IRRIGATION ON PRIVATE PROPERTY.

TYPICAL - INSTALL DRIP IRRIGATION WITHIN PLANTING BED. REFER TO DRIP DETAILS AND DRIP NOTES FOR INSTALLATION REQUIREMENTS

REFER TO DRAWING G0.7 FOR IRRIGATION NOTES.

MIDTOWN LOOP KEY NOTES AND LEGEND

IRRIGATION PLAN LEGEND			
	CONSTRUCTION LIMIT LINE		_TRASH RECEPTACLE, TYPE M
	RIGHT - OF - WAY LINE		_WAYFINDING COLUMN, FOUNDATION
	MATCH LINE		_FIXTURE TYPE M1 (REFER TO ELECTRICAL PLANS)
	HORIZONTAL ALIGNMENT		_FIXTURE TYPE M2, PLD (REFER TO ELECTRICAL PLANS)
	ADJACENT PROJECT		_FIXTURE TYPE M3 (REFER TO ELECTRICAL PLANS)
	_SIDEWALK RAMP, ADA, MODIFIED (R-28-H)		_FIXTURE TYPE M2, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)
	_BENCH, TYPE M		_STREET LIGHT, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)
	_BIKE RACK, TYPE M		1" TYPE 'K' HARD COPPER PIPE
	_DOG LITTER RECEPTACLE, TYPE M		20" MINIMUM MANHOLE BOX AND COVER
	_DRINKING FOUNTAIN		

APPROVED MANUFACTURERS

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	12' Radius Nozzle	10 Series Nozzle	10 Series Nozzle	10 Series Nozzle
	10' Radius Nozzle	SS-530 Side, ES-515 End	15 SST, 15 EST	4 SST, 4 EST
	Strip Spray Nozzle	HQ5-RC	Rainbird 5RC	HQ-5LRC
	Quick Coupling Valve	I-CORE-2400-M	ESP-LXME, 24 Sta.	CC-M-24
	Control Timer	XC-Hybrid	TBOS-II	Junior DC
	Battery Control Timer	Solar sync	WR-2	TWRS
	Rain Sensor			
	Zone and valve designation Z-Zone number, G-Gallons, VS-Valve size			

Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



Midtown Detroit, Inc.

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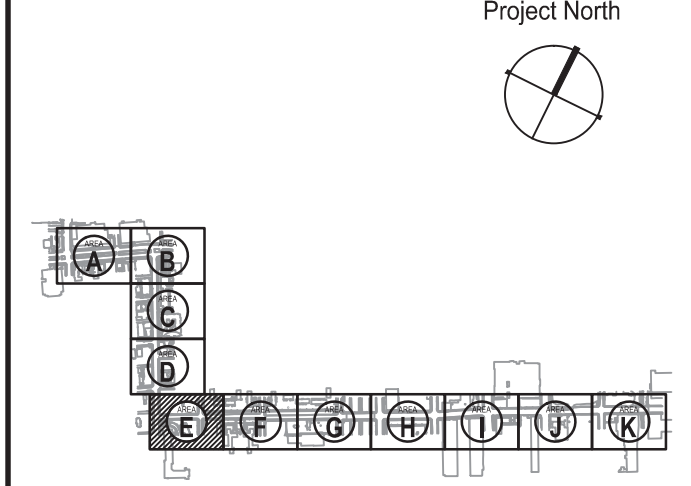


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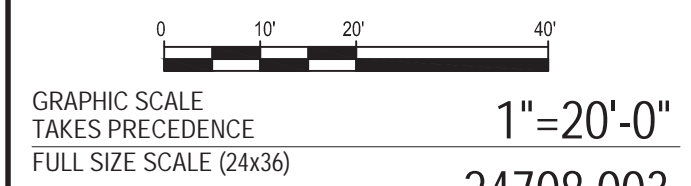
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BIDDING DOCUMENTS	5	MAY 21, 2013
BIDDING DOCUMENTS	4	MAY 02, 2013
100% CONSTRUCTION DOCUMENTS	3	APR 01, 2013
GRADE INSPECTION	2	JAN 30, 2013
80% CONSTRUCTION DOCUMENTS	1	JAN 07, 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05, 2012

SEALS AND SIGNATURES

KEY PLAN



IRRIGATION PLAN - AREA E



PROJECT NUMBER

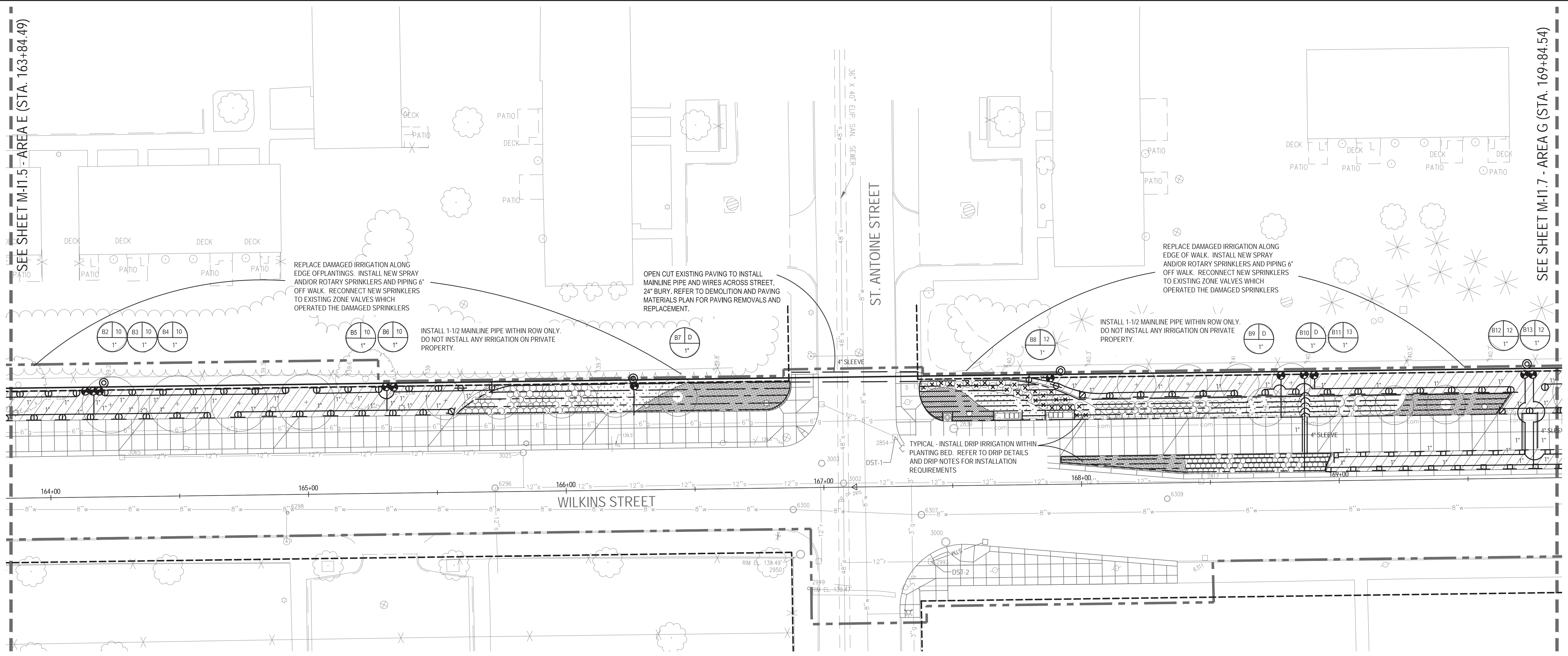
DRAWING NUMBER



M-11.5

SEE SHEET M-11.5 - AREA E (STA. 163+84.49)

SEE SHEET M-11.7 - AREA G (STA. 169+84.54)



# Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



Midtown Detroit, Inc.

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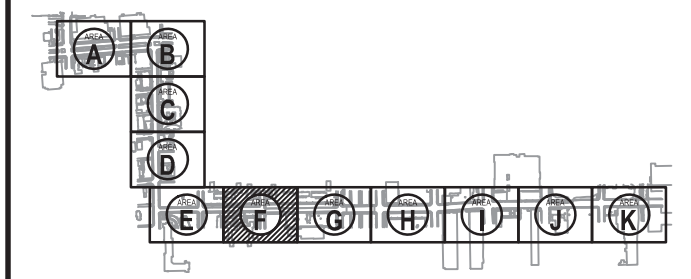
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100% CONSTRUCTION DOCUMENTS	3	APR 01 2013
GRADE INSPECTION	2	JAN 30 2013
80% CONSTRUCTION DOCUMENTS	1	JAN 07 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05 2012

SEALS AND SIGNATURES

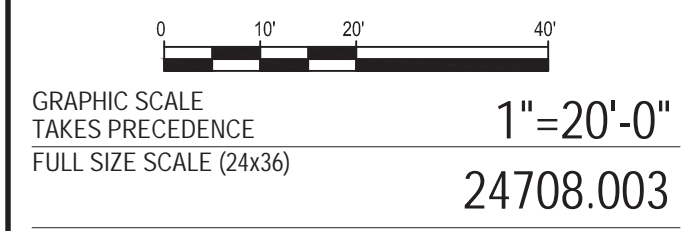
REFER TO DRAWING G0.7 FOR IRRIGATION NOTES.

MIDTOWN LOOP KEY NOTES AND LEGEND			
IRRIGATION PLAN LEGEND			
	CONSTRUCTION LIMIT LINE		_TRASH RECEPTACLE, TYPE M
	RIGHT - OF - WAY LINE		_WAYFINDING COLUMN, FOUNDATION
	MATCH LINE		_FIXTURE TYPE M1 (REFER TO ELECTRICAL PLANS)
	HORIZONTAL ALIGNMENT		_FIXTURE TYPE M2, PLD (REFER TO ELECTRICAL PLANS)
	ADJACENT PROJECT		_FIXTURE TYPE M3 (REFER TO ELECTRICAL PLANS)
	_SIDEWALK RAMP, ADA, MODIFIED (R-28-H)		_FIXTURE TYPE M2, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)
	_BENCH, TYPE M		_STREET LIGHT, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)
	_BIKE RACK, TYPE M		WATERLINE TAP
	_DOG LITTER RECEPTACLE, TYPE M		1" TYPE 'K' HARD COPPER PIPE
	_DRINKING FOUNTAIN		20" MINIMUM MANHOLE BOX AND COVER

KEY	EQUIPMENT	APPROVED MANUFACTURERS		
		HUNTER	RAINBIRD	TORO
	Automatic Control Valve			
	Drip zones	Drip kit, see notes	Drip kit, see notes	Drip kit, see notes
	Sprinkler zones	PGV	PGA	252
	4" Pop Up Spray w/	PROS-04-PRS30 Pro-Spray Fixed Nozzles	Rainbird 1804-PRS MPR Nozzles	570Z-PR4P MPR Plus Nozzles
	12' Radius Nozzle	12 Series Nozzle	12 Series Nozzle	12 Series Nozzle
	10' Radius Nozzle	10 Series Nozzle	10 Series Nozzle	10 Series Nozzle
	Strip Spray Nozzle	SS-530 Side, ES-515 End	15 SST, 15 EST	4 SST, 4 EST
	Quick Coupling Valve	HQ5-RC	Rainbird 5RC	HQ-5LRC
	Control Timer	I-CORE-2400-M	ESP-LXME, 24 Sta.	CC-M-24
	Battery Control Timer	XC-Hybrid	TBOS-II	Junior DC
	Rain Sensor	Solar sync	WR-2	TWRS
	Zone and valve designation Z-Zone number, G-Gallons, VS-Valve size			



DRAWING TITLE  
IRRIGATION PLAN - AREA F



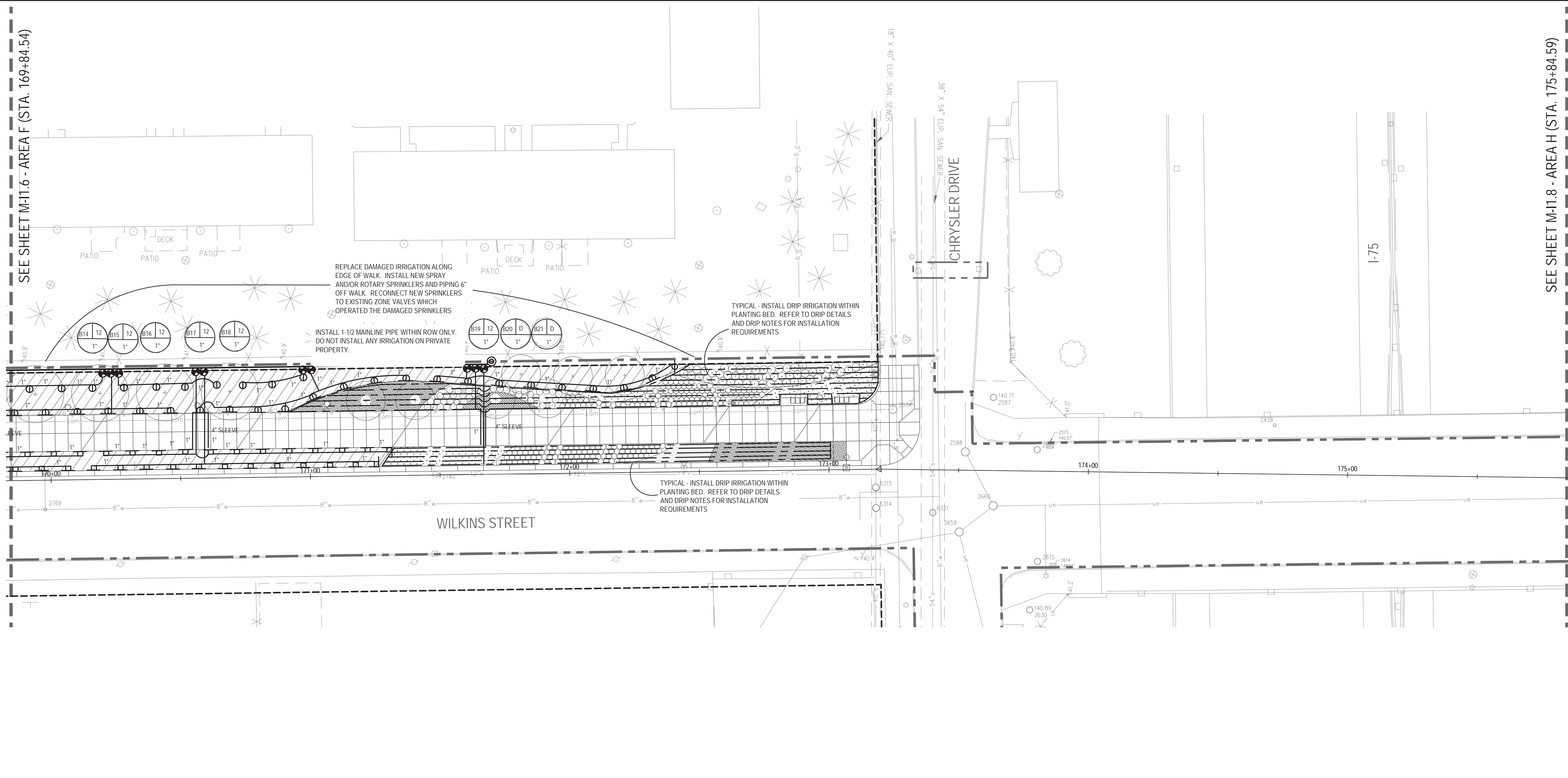
PROJECT NUMBER  
M-11.6

DRAWING NUMBER  
342 of 497



SEE SHEET M-11.6 - AREA F (STA. 169+84.54)

SEE SHEET M-11.8 - AREA H (STA. 175+84.59)



REFER TO DRAWING G0.7 FOR IRRIGATION NOTES.

MIDTOWN LOOP KEY NOTES AND LEGEND			
IRRIGATION PLAN LEGEND			
	CONSTRUCTION LIMIT LINE		_TRASH RECEPTACLE, TYPE M
	RIGHT - OF - WAY LINE		_WAYFINDING COLUMN, FOUNDATION
	MATCH LINE		_FIXTURE TYPE M1 (REFER TO ELECTRICAL PLANS)
	HORIZONTAL ALIGNMENT		_FIXTURE TYPE M2, PLD (REFER TO ELECTRICAL PLANS)
	ADJACENT PROJECT		_FIXTURE TYPE M3 (REFER TO ELECTRICAL PLANS)
	_SIDEWALK RAMP, ADA, MODIFIED (R-28-H)		_FIXTURE TYPE M2, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)
	_BENCH, TYPE M		_STREET LIGHT, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)
	_BIKE RACK, TYPE M		
	_DOG LITTER RECEPTACLE, TYPE M		
	_DRINKING FOUNTAIN		

APPROVED MANUFACTURERS				
KEY	EQUIPMENT	HUNTER	RAINBIRD	TORO
	Automatic Control Valve			
	Drip zones	Drip kit, see notes	Drip kit, see notes	Drip kit, see notes
	Sprinkler zones	PGV	PGA	252
	4" Pop Up Spray w/	PROS-04-PRS30 Pro-Spray Fixed Nozzles	Rainbird 1804-PRS MPR Nozzles	570Z-PR4P MPR Plus Nozzles
	12' Radius Nozzle	12 Series Nozzle	12 Series Nozzle	12 Series Nozzle
	10' Radius Nozzle	10 Series Nozzle	10 Series Nozzle	10 Series Nozzle
	Strip Spray Nozzle	SS-530 Side, ES-515 End	15 SST, 15 EST	4 SST, 4 EST
	Quick Coupling Valve	HQ5-RC	Rainbird 5RC	HQ-5LRC
	Control Timer	I-CORE-2400-M	ESP-LXME, 24 Sta.	CC-M-24
	Battery Control Timer	XC-Hybrid	TBOS-II	Junior DC
	Rain Sensor	Solar sync	WR-2	TWRS
	Zone and valve designation Z-Zone number, G-Gallons, VS-Valve size			

# Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



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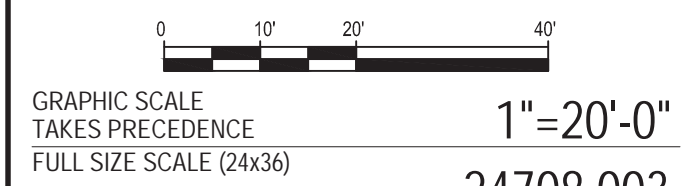
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SEALS AND SIGNATURES



### IRRIGATION PLAN - AREA G

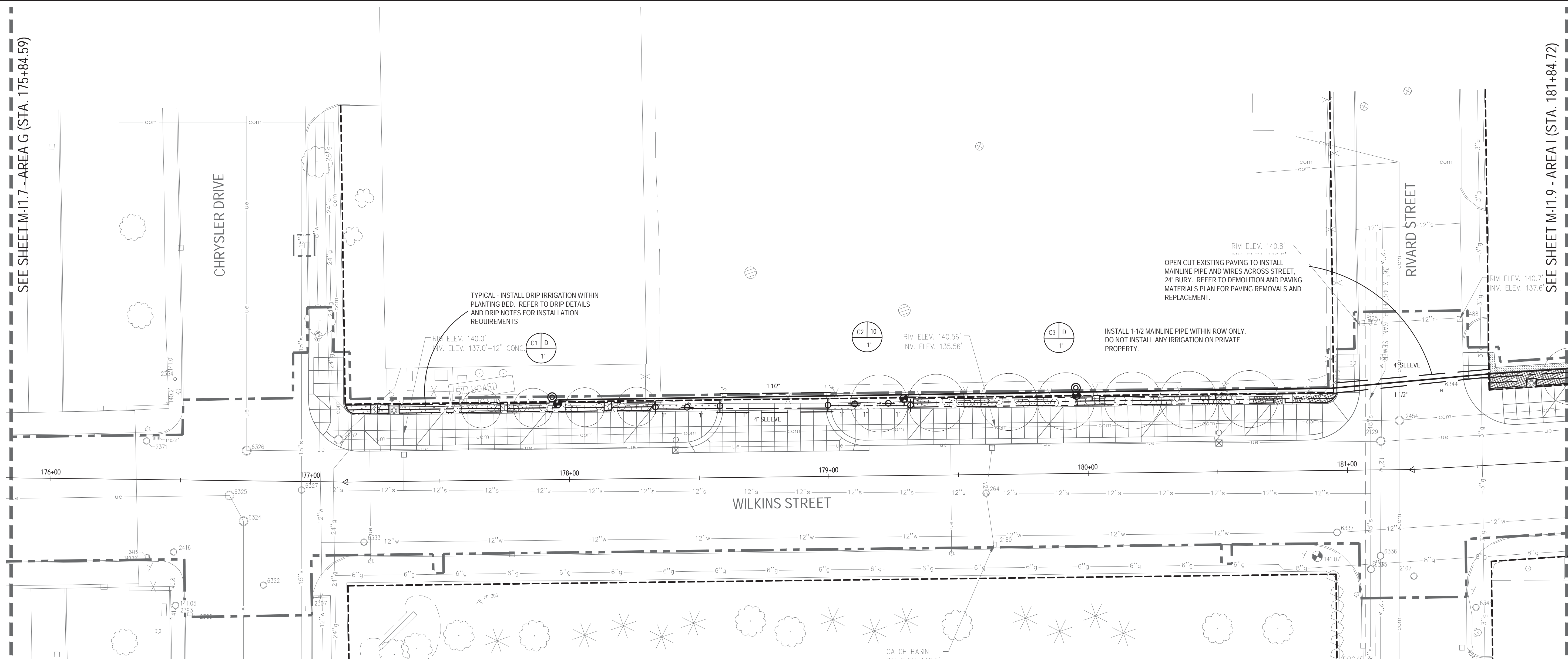


PROJECT NUMBER  
**M-11.7**  
DRAWING NUMBER  
343 of 497



SEE SHEET M-11.7 - AREA G (STA. 175+84.59)

SEE SHEET M-11.9 - AREA I (STA. 181+84.72)



# Midtown Loop Phase IV

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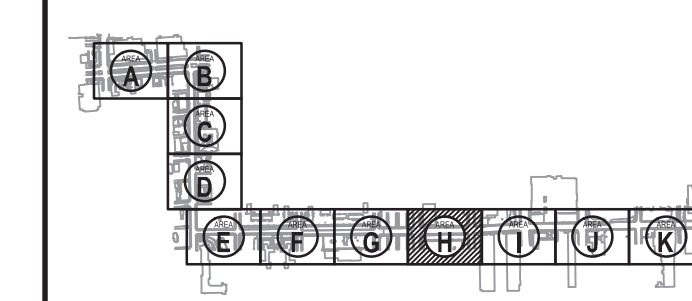
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SEALS AND SIGNATURES

REFER TO DRAWING G0.7 FOR IRRIGATION NOTES.

MIDTOWN LOOP KEY NOTES AND LEGEND			
IRRIGATION PLAN LEGEND			
	CONSTRUCTION LIMIT LINE		_TRASH RECEPTACLE, TYPE M
	RIGHT - OF - WAY LINE		_WAYFINDING COLUMN, FOUNDATION
	MATCH LINE		_FIXTURE TYPE M1 (REFER TO ELECTRICAL PLANS)
	HORIZONTAL ALIGNMENT		_FIXTURE TYPE M2, PLD (REFER TO ELECTRICAL PLANS)
	ADJACENT PROJECT		_FIXTURE TYPE M3 (REFER TO ELECTRICAL PLANS)
	_SIDEWALK RAMP, ADA, MODIFIED (R-28-H)		_FIXTURE TYPE M2, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)
	_BENCH, TYPE M		_STREET LIGHT, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)
	_BIKE RACK, TYPE M		WATERLINE TAP
	_DOG LITTER RECEPTACLE, TYPE M		1" TYPE 'K' HARD COPPER PIPE
	_DRINKING FOUNTAIN		20" MINIMUM MANHOLE BOX AND COVER

APPROVED MANUFACTURERS				
KEY	EQUIPMENT	HUNTER	RAINBIRD	TORO
	Automatic Control Valve	Drip kit, see notes	Drip kit, see notes	Drip kit, see notes
	Drip zones	PGV	PGA	252
	Sprinkler zones	PROS-04-PRS30 Pro-Spray Fixed Nozzles	Rainbird 1804-PRS MPR Nozzles	570Z-PR4P MPR Plus Nozzles
	4" Pop Up Spray w/	12 Series Nozzle	12 Series Nozzle	12 Series Nozzle
	12' Radius Nozzle	10 Series Nozzle	10 Series Nozzle	10 Series Nozzle
	10' Radius Nozzle	SS-530 Side, ES-515 End	15 SST, 15 EST	4 SST, 4 EST
	Strip Spray Nozzle	HQ5-RC	Rainbird 5RC	HQ-5LRC
	Quick Coupling Valve	I-CORE-2400-M	ESP-LXME, 24 Sta.	CC-M-24
	Control Timer	XC-Hybrid	TBOS-II	Junior DC
	Battery Control Timer	Solar sync	WR-2	TWRS
	Rain Sensor			
	Zone and valve designation Z-Zone number, G-Gallons, VS-Valve size			



DRAWING TITLE  
IRRIGATION PLAN - AREA H

PROJECT NUMBER  
M-11.8

DRAWING NUMBER  
344 of 497

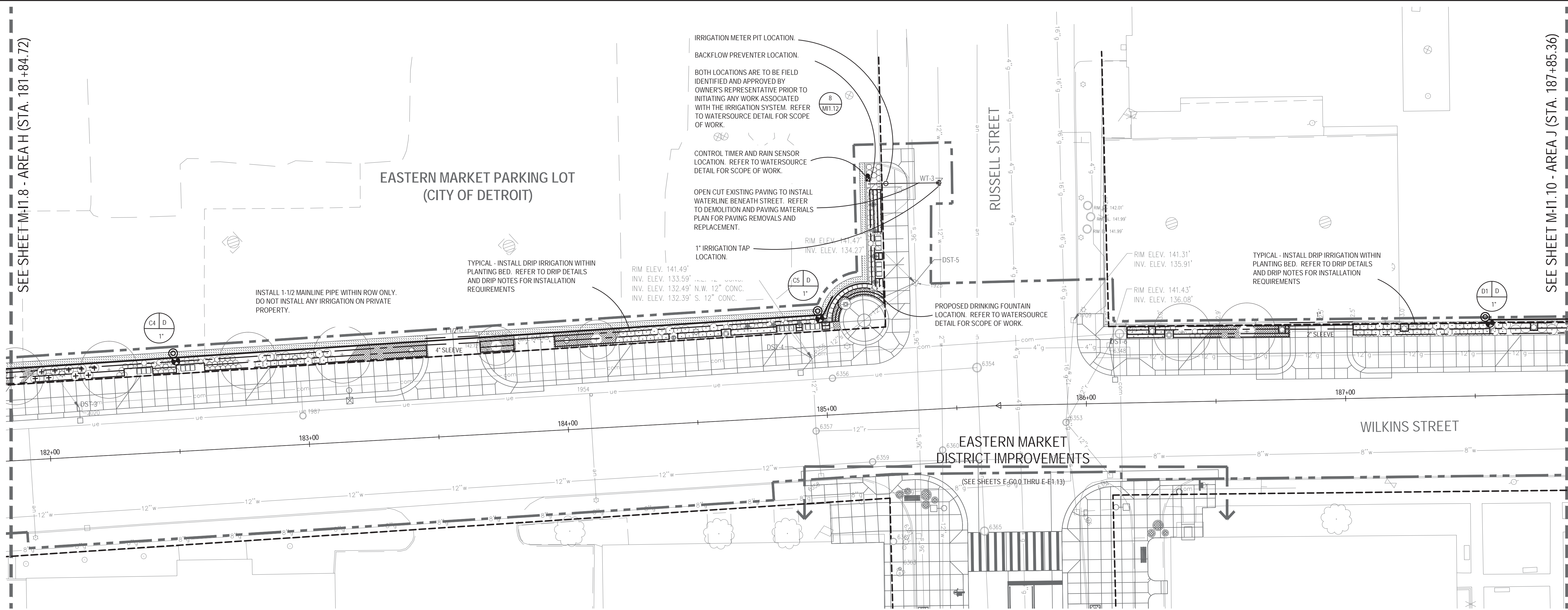
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SEE SHEET M-11.8 - AREA H (STA. 181+84.72)

SEE SHEET M-11.10 - AREA J (STA. 187+85.36)



REFER TO DRAWING G0.7 FOR IRRIGATION NOTES.

MIDTOWN LOOP KEY NOTES AND LEGEND			
IRRIGATION PLAN LEGEND			
	CONSTRUCTION LIMIT LINE		_TRASH RECEPTACLE, TYPE M
	RIGHT - OF - WAY LINE		_WAYFINDING COLUMN, FOUNDATION
	MATCH LINE		_FIXTURE TYPE M1 (REFER TO ELECTRICAL PLANS)
	HORIZONTAL ALIGNMENT		_FIXTURE TYPE M2, PLD (REFER TO ELECTRICAL PLANS)
	ADJACENT PROJECT		_FIXTURE TYPE M3 (REFER TO ELECTRICAL PLANS)
	_SIDEWALK RAMP, ADA, MODIFIED (R-28-H)		_FIXTURE TYPE M2, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)
	_BENCH, TYPE M		_STREET LIGHT, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)
	_BIKE RACK, TYPE M		1" TYPE 'K' HARD COPPER PIPE
	_DOG LITTER RECEPTACLE, TYPE M		20" MINIMUM MANHOLE BOX AND COVER
	_DRINKING FOUNTAIN		

APPROVED MANUFACTURERS				
KEY	EQUIPMENT	HUNTER	RAINBIRD	TORO
	Automatic Control Valve			
	Drip zones	Drip kit, see notes	Drip kit, see notes	Drip kit, see notes
	Sprinkler zones	PGV	PGA	252
	4" Pop Up Spray w/	PROS-04-PRS30 Pro-Spray Fixed Nozzles	Rainbird 1804-PRS MPR Nozzles	570Z-PR4P MPR Plus Nozzles
	12' Radius Nozzle	12 Series Nozzle	12 Series Nozzle	12 Series Nozzle
	10' Radius Nozzle	10 Series Nozzle	10 Series Nozzle	10 Series Nozzle
	Strip Spray Nozzle	SS-530 Side, ES-515 End	15 SST, 15 EST	4 SST, 4 EST
	Quick Coupling Valve	HQ5-RC	Rainbird 5RC	HQ-5LRC
	Control Timer	I-CORE-2400-M	ESP-LXME, 24 Sta.	CC-M-24
	Battery Control Timer	XC-Hybrid	TBOS-II	Junior DC
	Rain Sensor	Solar sync	WR-2	TWRS
	Zone and valve designation Z-Zone number, G-Gallons, VS-Valve size			

# Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



Midtown Detroit, Inc.

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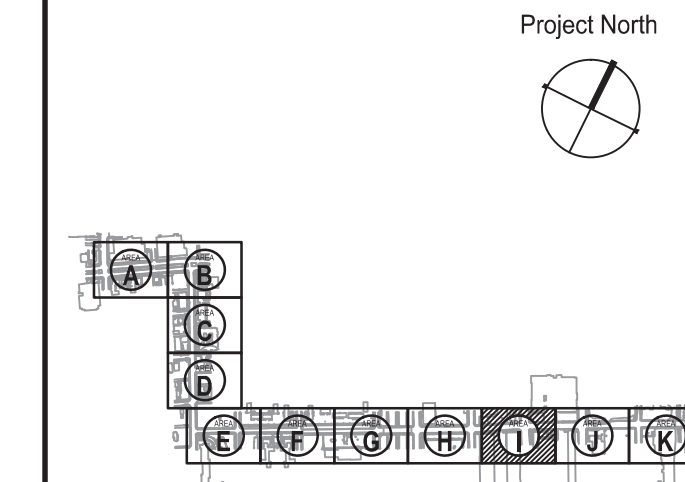
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80% CONSTRUCTION DOCUMENTS	1	JAN 07, 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05, 2012

SEALS AND SIGNATURES

KEY PLAN



DRAWING TITLE  
**IRRIGATION PLAN - AREA I**

GRAPHIC SCALE  
TAKES PRECEDENCE  
FULL SIZE SCALE (24x36)  
1" = 20'-0"  
24708.003

PROJECT NUMBER

**M-11.9**

DRAWING NUMBER

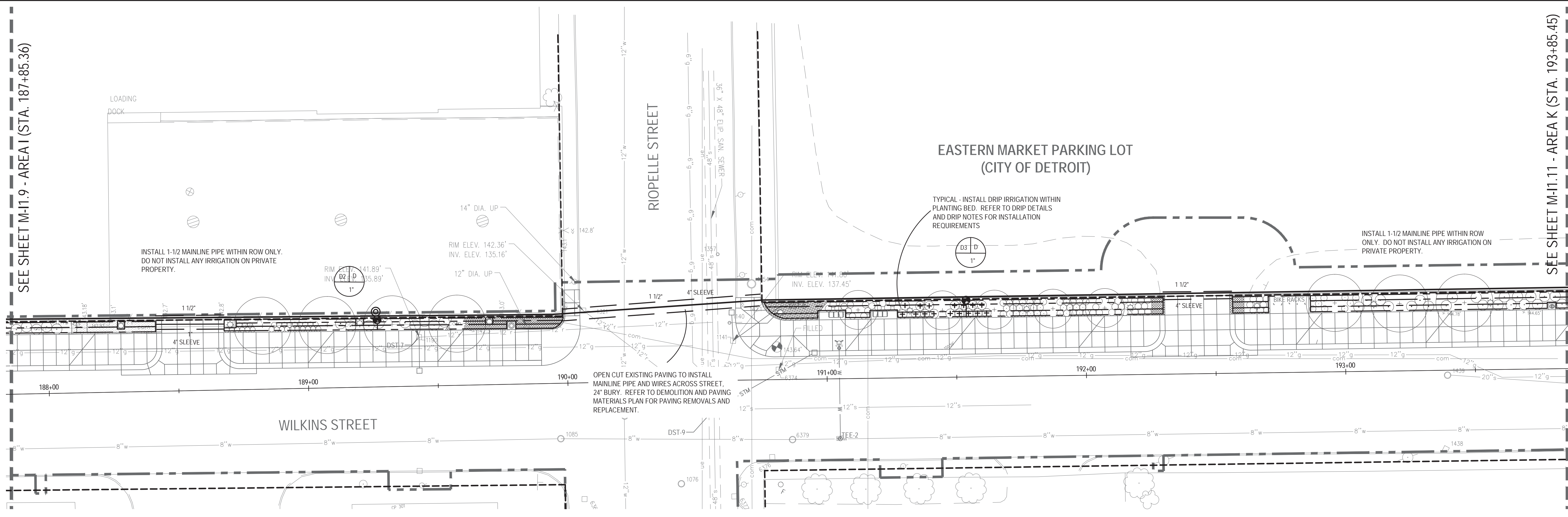
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SEE SHEET M-11.9 - AREA I (STA. 187+85.36)

SEE SHEET M-11.11 - AREA K (STA. 193+85.45)



# Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



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Midtown Detroit, Inc.

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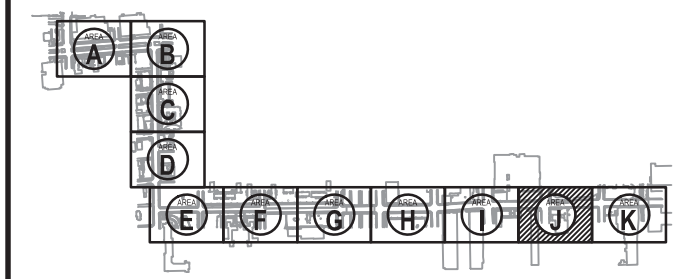
SEALS AND SIGNATURES

REFER TO DRAWING G0.7 FOR IRRIGATION NOTES.

MIDTOWN LOOP KEY NOTES AND LEGEND			
IRRIGATION PLAN LEGEND			
	CONSTRUCTION LIMIT LINE		_TRASH RECEPTACLE, TYPE M
	RIGHT - OF - WAY LINE		_WAYFINDING COLUMN, FOUNDATION
	MATCH LINE		_FIXTURE TYPE M1 (REFER TO ELECTRICAL PLANS)
	HORIZONTAL ALIGNMENT		_FIXTURE TYPE M2, PLD (REFER TO ELECTRICAL PLANS)
	ADJACENT PROJECT		_FIXTURE TYPE M3 (REFER TO ELECTRICAL PLANS)
	_SIDEWALK RAMP, ADA, MODIFIED (R-28-H)		_FIXTURE TYPE M2, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)
	_BENCH, TYPE M		_STREET LIGHT, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)
	_BIKE RACK, TYPE M		WATERLINE TAP
	_DOG LITTER RECEPTACLE, TYPE M		1" TYPE 'K' HARD COPPER PIPE
	_DRINKING FOUNTAIN		20" MINIMUM MANHOLE BOX AND COVER

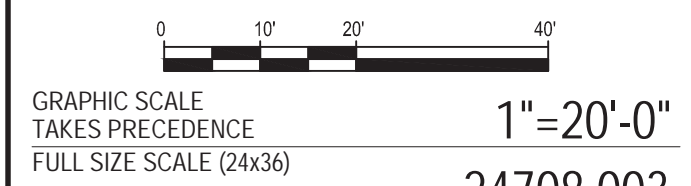
### APPROVED MANUFACTURERS

KEY	EQUIPMENT	HUNTER	RAINBIRD	TORO
	Automatic Control Valve			
	Drip zones	Drip kit, see notes	Drip kit, see notes	Drip kit, see notes
	Sprinkler zones	PGV	PGA	252
	4" Pop Up Spray w/ 12' Radius Nozzle	PROS-04-PRS30	Rainbird 1804-PRS	570Z-PR4P
	4" Pop Up Spray w/ 10' Radius Nozzle	Pro-Spray Fixed Nozzles	MPR Nozzles	MPR Plus Nozzles
	Strip Spray Nozzle	12 Series Nozzle	12 Series Nozzle	12 Series Nozzle
	Quick Coupling Valve	10 Series Nozzle	10 Series Nozzle	10 Series Nozzle
	Control Timer	SS-530 Side, ES-515 End	15 SST, 15 EST	4 SST, 4 EST
	Battery Control Timer	HQ5-RC	Rainbird 5RC	HQ-5LRC
	Rain Sensor	I-CORE-2400-M	ESP-LXME, 24 Sta.	CC-M-24
	Zone and valve designation	XC-Hybrid	TBOS-II	Junior DC
	Z-Zone number, G-Gallons, VS-Valve size	Solar sync	WR-2	TWRS



### DRAWING TITLE

IRRIGATION PLAN - AREA J



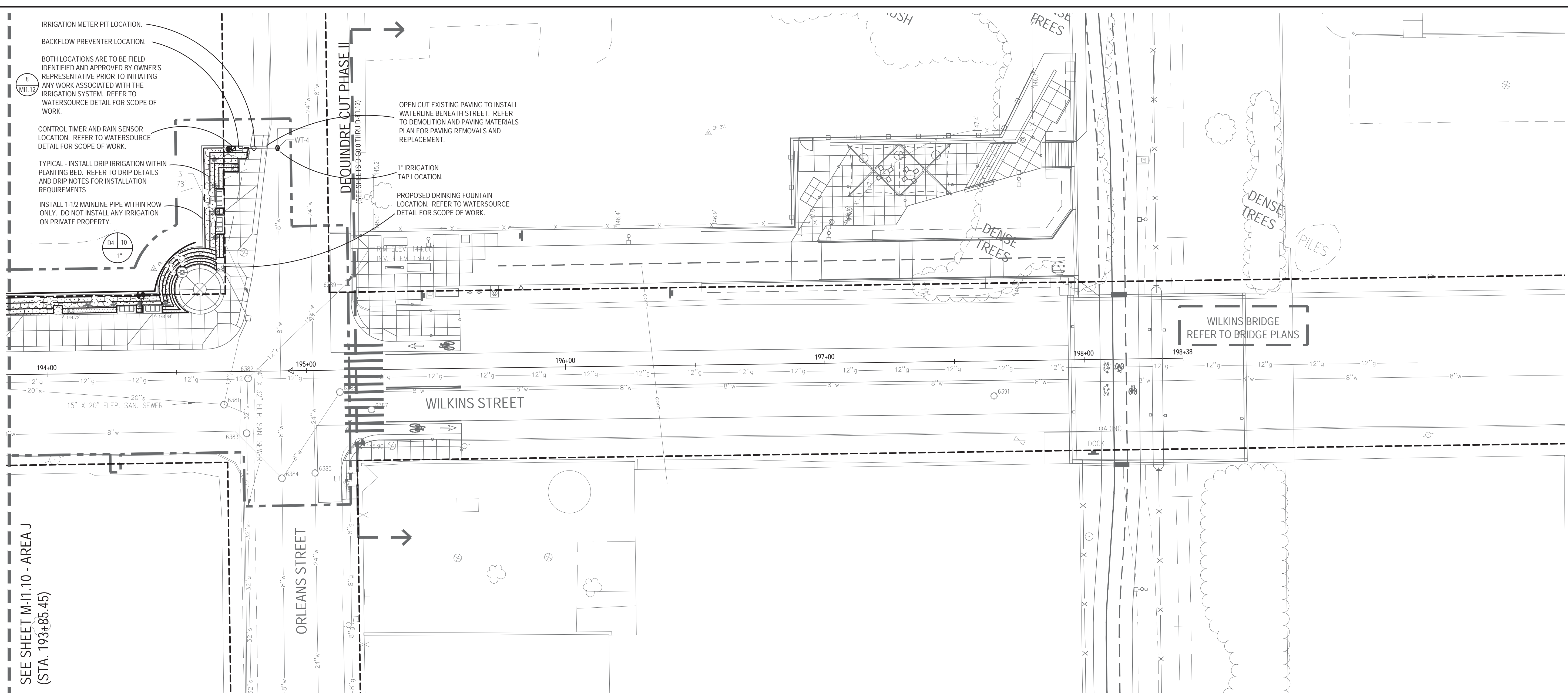
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DRAWING NUMBER M-11.10



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REFER TO DRAWING G0.7 FOR IRRIGATION NOTES.

MIDTOWN LOOP KEY NOTES AND LEGEND					
IRRIGATION PLAN LEGEND					
	CONSTRUCTION LIMIT LINE		_TRASH RECEPTACLE, TYPE M <small>3 M-CS.4</small>		SHADE TREE
	RIGHT - OF - WAY LINE		_WAYFINDING COLUMN, FOUNDATION <small>1 M-CS.5</small>		ORNAMENTAL TREE
	MATCH LINE		_FIXTURE TYPE M1 (REFER TO ELECTRICAL PLANS)		DECIDUOUS SHRUB
	HORIZONTAL ALIGNMENT		_FIXTURE TYPE M2, PLD (REFER TO ELECTRICAL PLANS)		ORNAMENTAL GRASS
	ADJACENT PROJECT		_FIXTURE TYPE M3 (REFER TO ELECTRICAL PLANS)		_SEEDING, MODIFIED, TYPE 1
	_SIDEWALK RAMP, ADA, MODIFIED (R-26-H)		_FIXTURE TYPE M2, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)		PRENNIALS
	_BENCH, TYPE M <small>1 M-CS.4</small>		_STREET LIGHT, RELOCATE, PLD (REFER TO ELECTRICAL PLANS)		WATERLINE TAP
	_BIKE RACK, TYPE M <small>2 M-CS.5</small>				1" TYPE 'K' HARD COPPER PIPE
	_DOG LITTER RECEPTACLE, TYPE M <small>3 M-CS.5</small>				20" MINIMUM MANHOLE BOX AND COVER
	_DRINKING FOUNTAIN <small>4 M-CS.5</small>				

APPROVED MANUFACTURERS				
KEY	EQUIPMENT	HUNTER	RAINBIRD	TORO
	Automatic Control Valve			
	Drip zones	Drip kit, see notes	Drip kit, see notes	Drip kit, see notes
	Sprinkler zones	PGV	PGA	252
	4" Pop Up Spray w/	PROS-04-PRS30 Pro-Spray Fixed Nozzles	Rainbird 1804-PRS MPR Nozzles	570Z-PR4P MPR Plus Nozzles
	12' Radius Nozzle	12 Series Nozzle	12 Series Nozzle	12 Series Nozzle
	10' Radius Nozzle	10 Series Nozzle	10 Series Nozzle	10 Series Nozzle
	Strip Spray Nozzle	SS-530 Side, ES-515 End	15 SST, 15 EST	4 SST, 4 EST
	Quick Coupling Valve	HQ5-RC	Rainbird 5RC	HQ-5LRC
	Control Timer	I-CORE-2400-M	ESP-LXME, 24 Sta.	CC-M-24
	Battery Control Timer	XC-Hybrid	TBOS-II	Junior DC
	Rain Sensor	Solar sync	WR-2	TWRS
	Zone and valve designation Z-Zone number, G-Gallons, VS-Valve size			

Midtown Loop  
Phase IV  
Midtown Loop  
Detroit, Michigan



Owners:  
  
City of Detroit

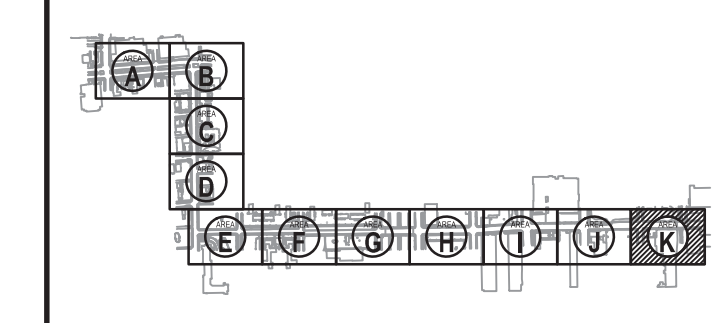
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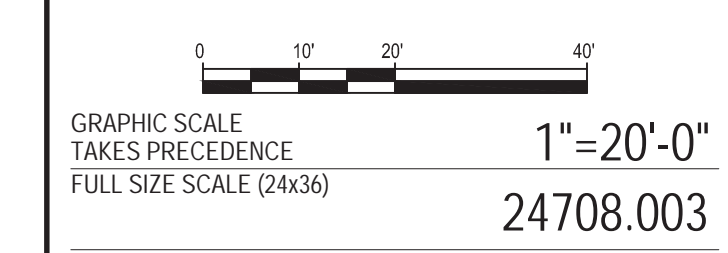
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SEALS AND SIGNATURES



DRAWING TITLE  
**IRRIGATION PLAN - AREA K**



PROJECT NUMBER  
**M-11.11**  
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Owners:



City of Detroit



Midtown Detroit, Inc.

## SMITHGROUP JJR

201 DEPOT STREET  
SECOND FLOOR  
ANN ARBOR, MI 48104  
734.662.4457  
www.smithgroupjjr.com

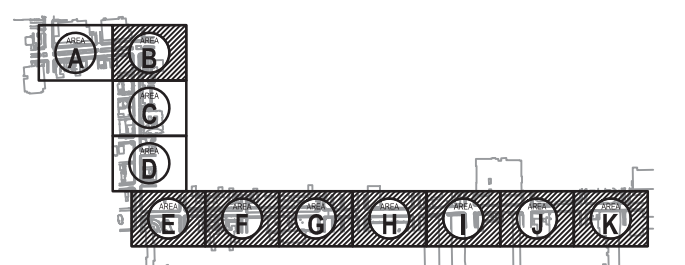
29218 COTTON ROAD  
CHESTERFIELD, MI 48047  
586.615.4893 T; 586.677.5876 F  
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ISSUED FOR	REV	DATE
BIDDING DOCUMENTS	5	MAY 21, 2013
BIDDING DOCUMENTS	4	MAY 02, 2013
100% CONSTRUCTION DOCUMENTS	3	APR 01, 2013
GRADE INSPECTION	2	JAN 30, 2013
80% CONSTRUCTION DOCUMENTS	1	JAN 07, 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05, 2012

SEALS AND SIGNATURES

KEY PLAN

Project North



### DRAWING TITLE

## IRRIGATION DETAILS

GRAPHIC SCALE AS NOTED  
FULL SIZE SCALE (24x36)  
24708.003

PROJECT NUMBER

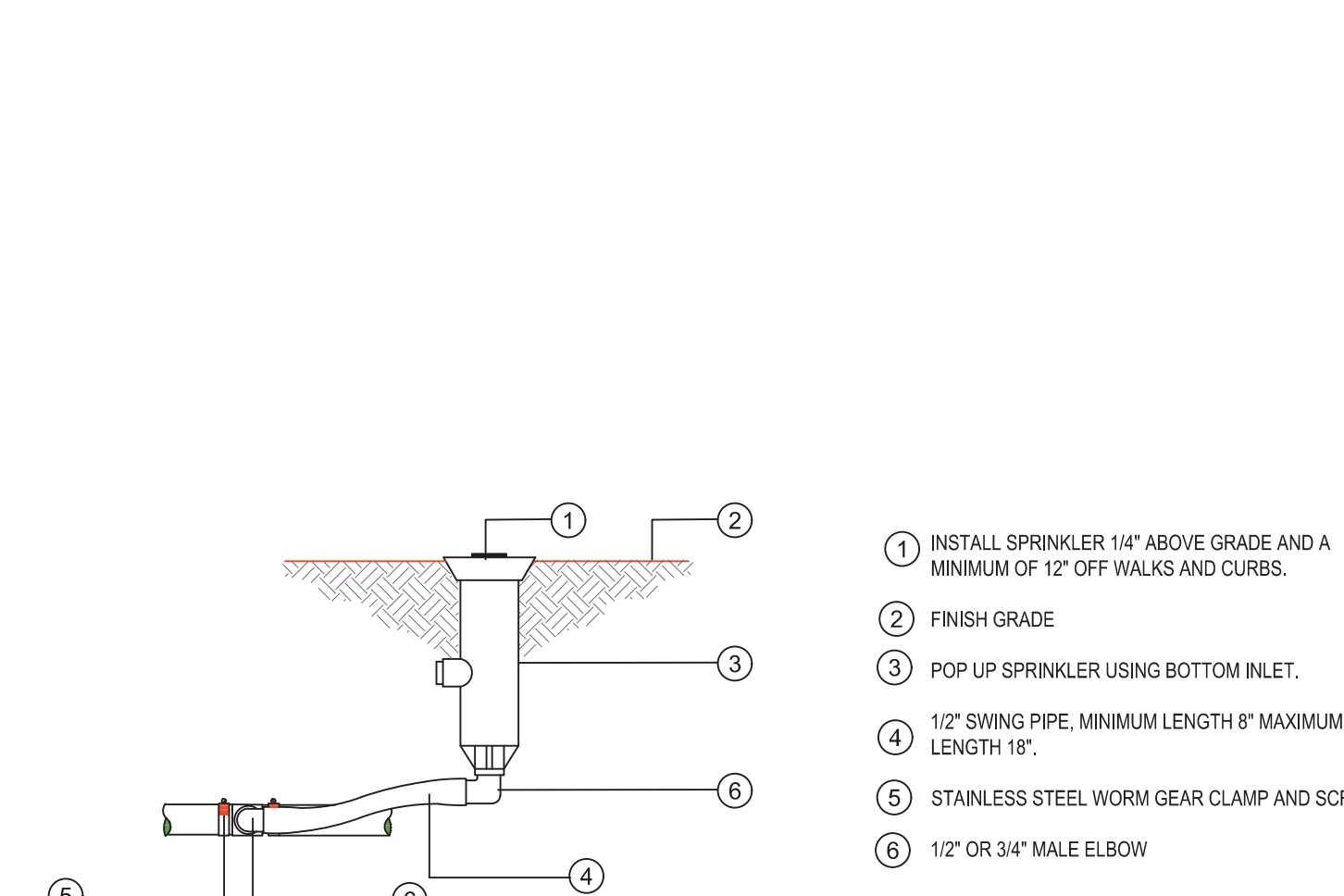
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DRAWING NUMBER

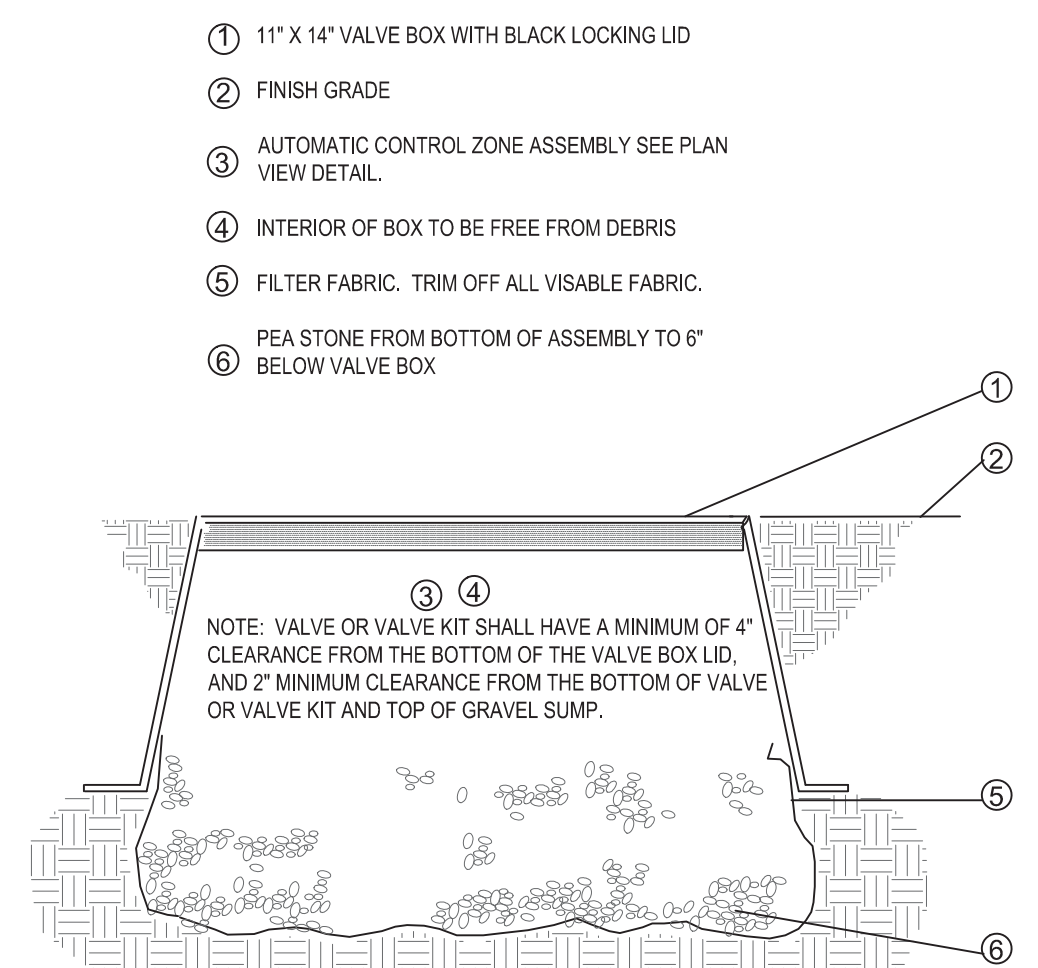
348 of 497



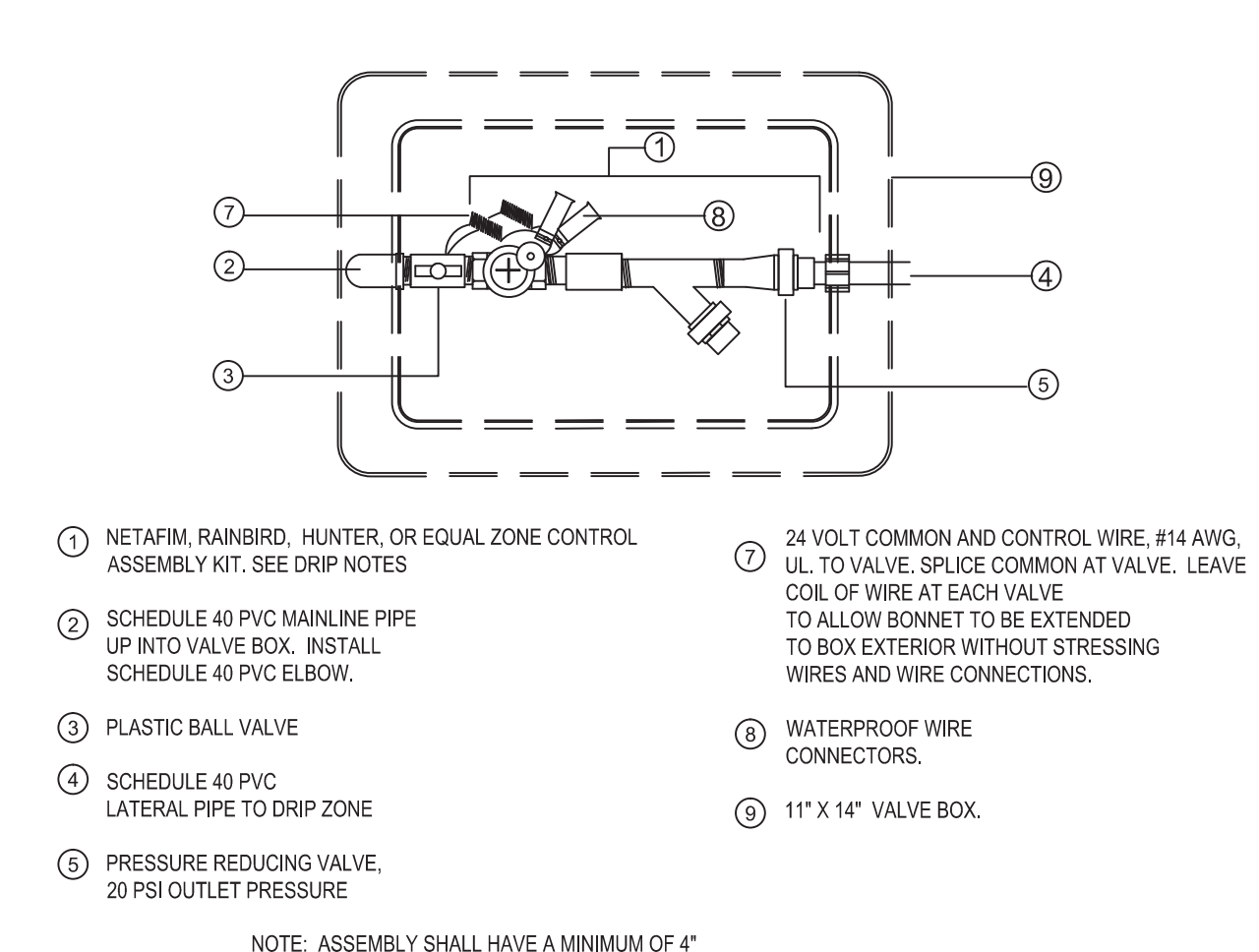
3 WORKING DAYS BEFORE YOU DIG  
CALL MISS DIG  
1-800-482-7171



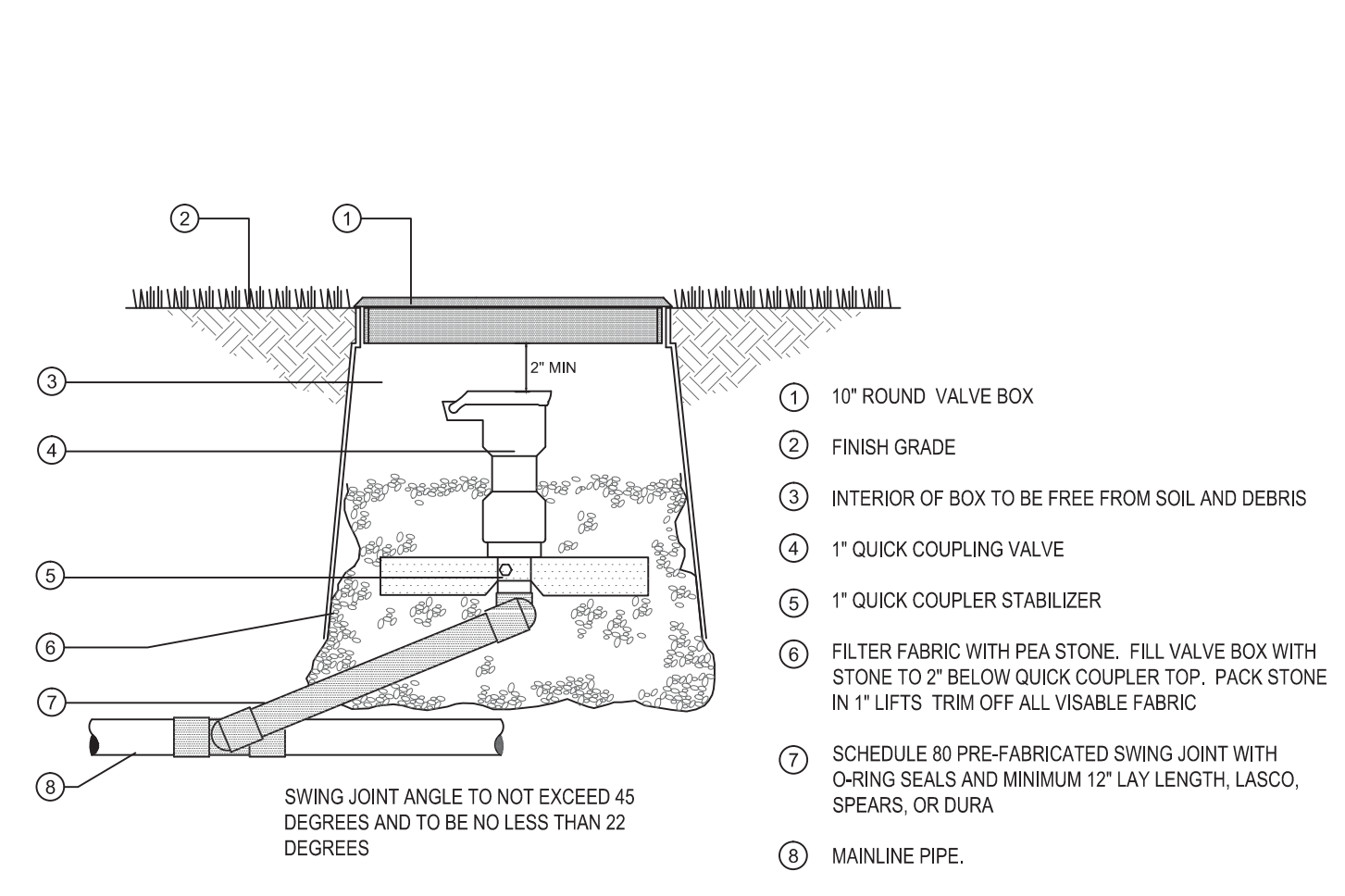
4 TWO ELBOW SWING JOINT  
N.T.S.



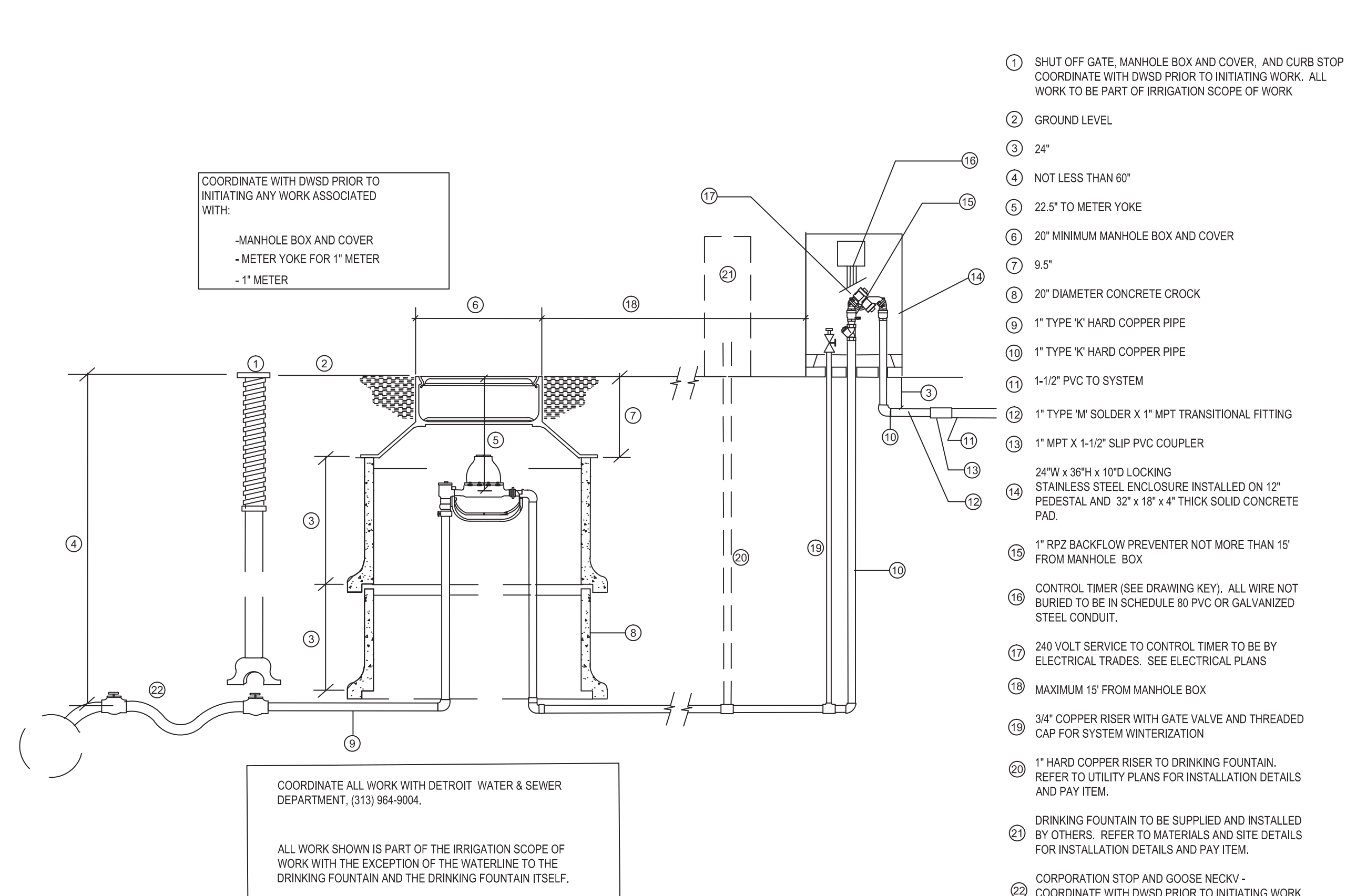
3 VALVE BOX INSTALLATION DETAIL  
N.T.S.



2 DRIP ZONE CONTROL ZONE ASSEMBLY (PLAN VIEW)  
N.T.S.



1 THREE ELBOW SWING JOINT - QUICK COUPLING VALVE  
N.T.S.



8 WATERSOURCE DETAIL - SCHEMATIC  
N.T.S.

**DRIP IRRIGATION**

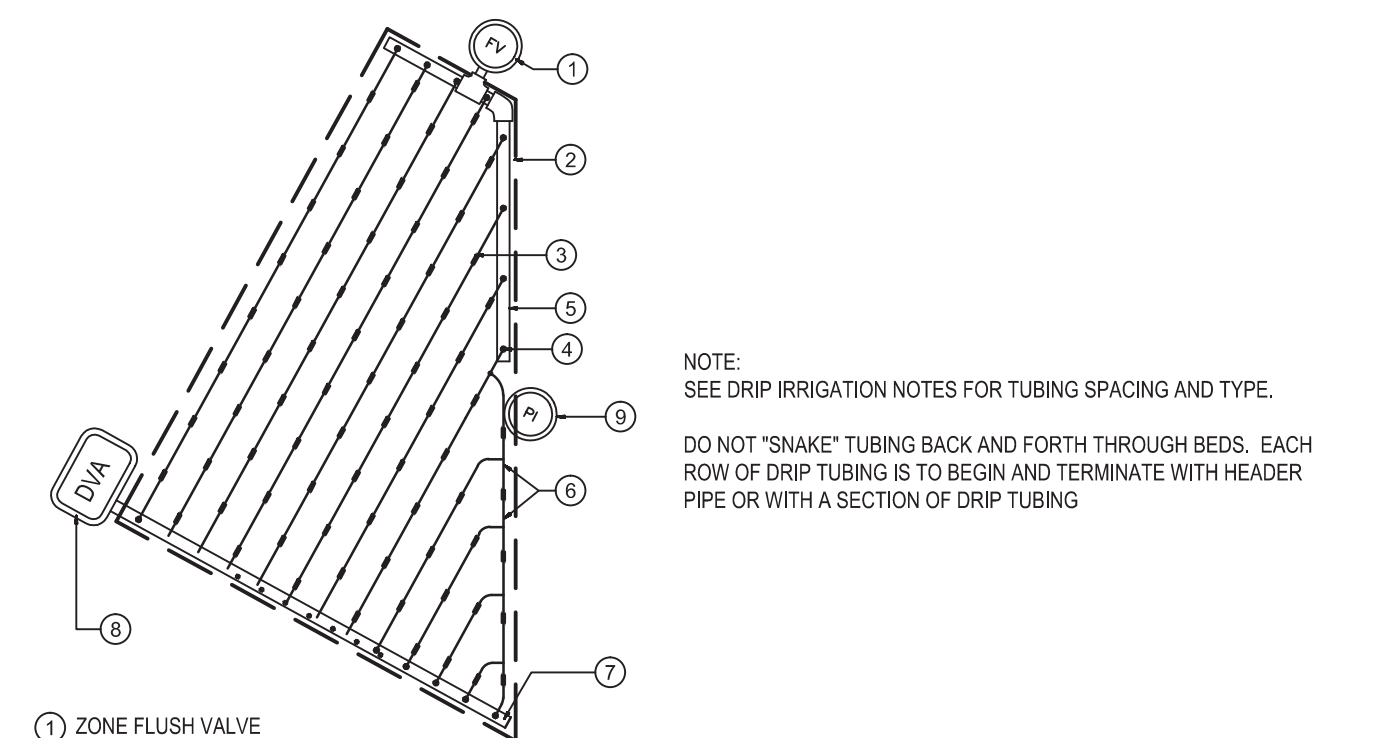
VALVES FOR DRIP ZONES ARE TO BE AS DETAILED AND ARE TO INCLUDE VALVE, FILTER, AND PRESSURE REGULATOR. DRIP VALVE ASSEMBLIES SHALL BE AS FOLLOWS:

NETAFIM LVZ-10075-HF, RAINBIRD XCZ-100-PRF, HUNTER ICZ, OR EQUAL

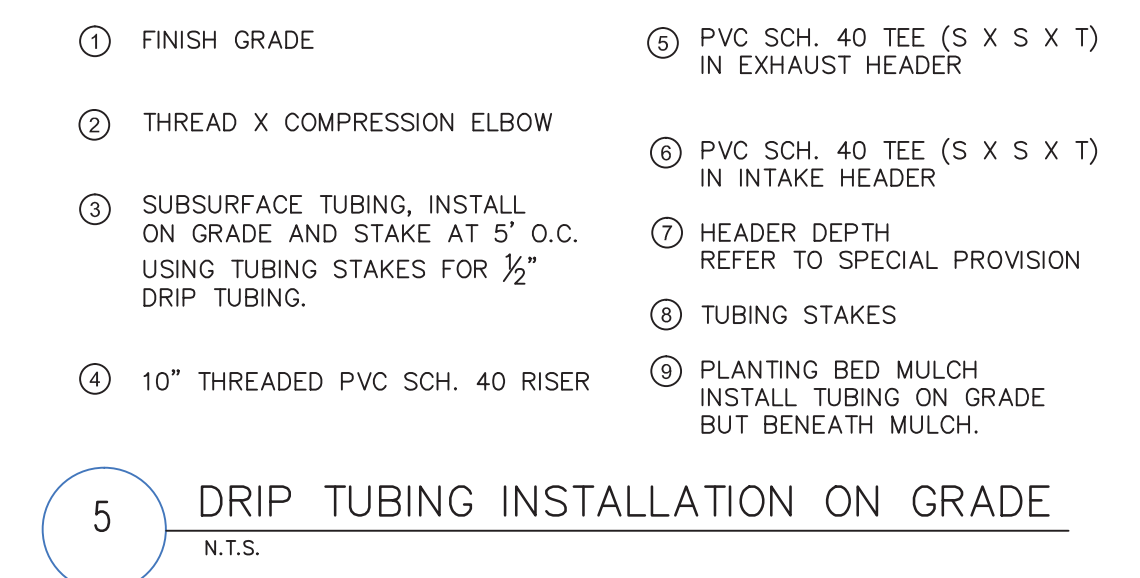
DRIP TUBING IS TO BE NETAFIM TECHLINE CV, OR RAINBIRD AND HUNTER EQUIVALENT WITH .6 GPH EMITTERS AND CHECK VALVE FEATURE IN EVERY EMITTER.

INSTALL DRIP TUBING AT THE BASE OF EACH ROW OF PLANTS.

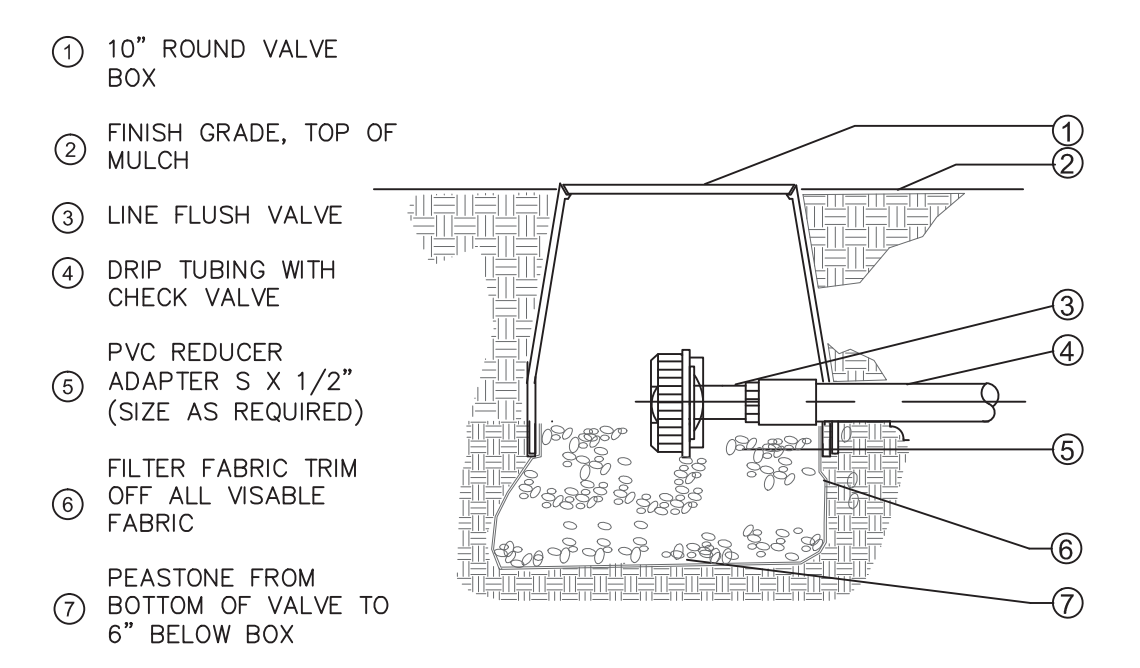
INSTALL PRESSURE INDICATOR STAKE, INSIDE 6\"/>



7 DRIP TUBING INSTALLATION LAYOUT - SCHEMATIC  
N.T.S.

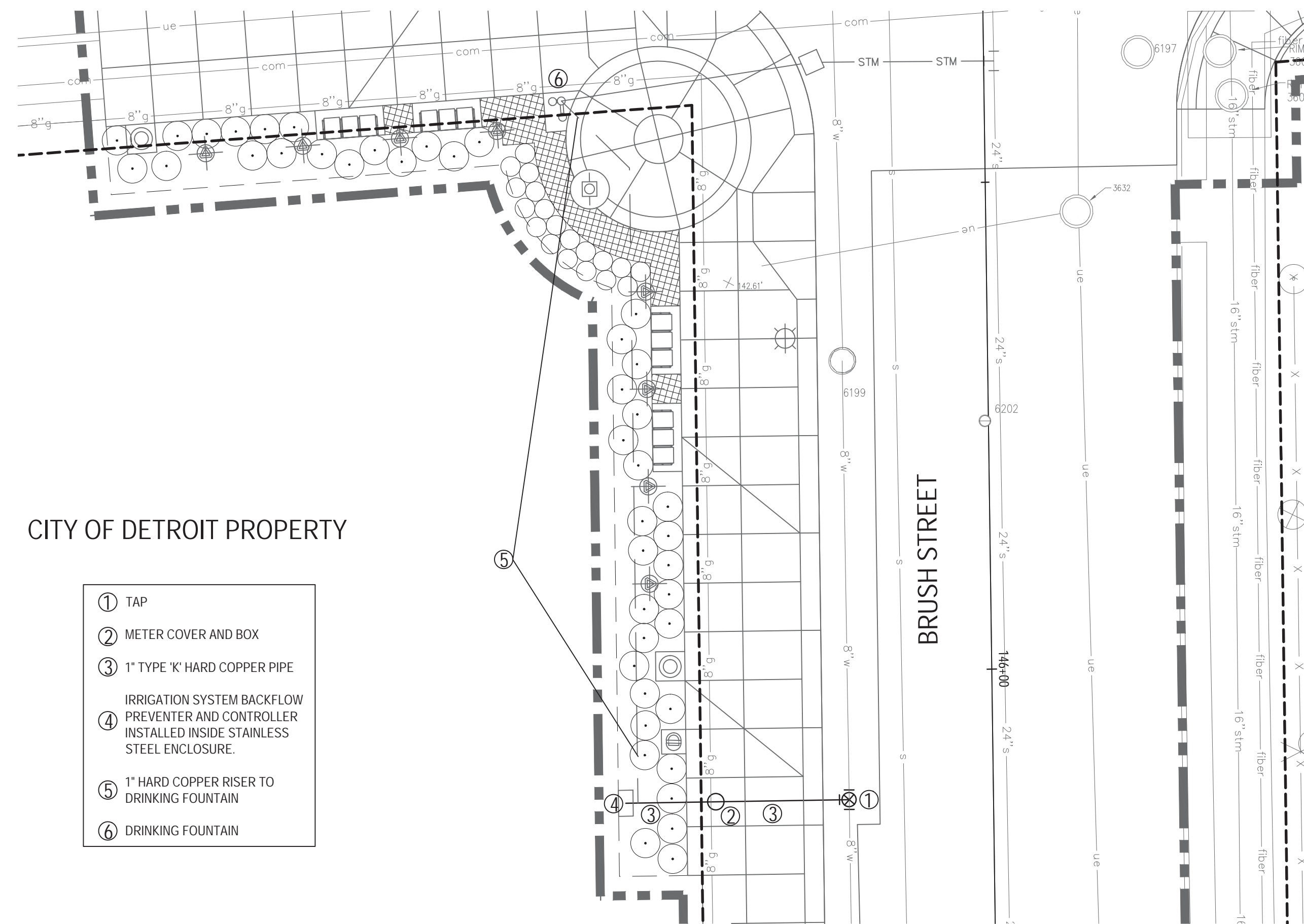


5 DRIP TUBING INSTALLATION ON GRADE  
N.T.S.



6 DRIP FLUSH VALVE ASSEMBLY  
N.T.S.

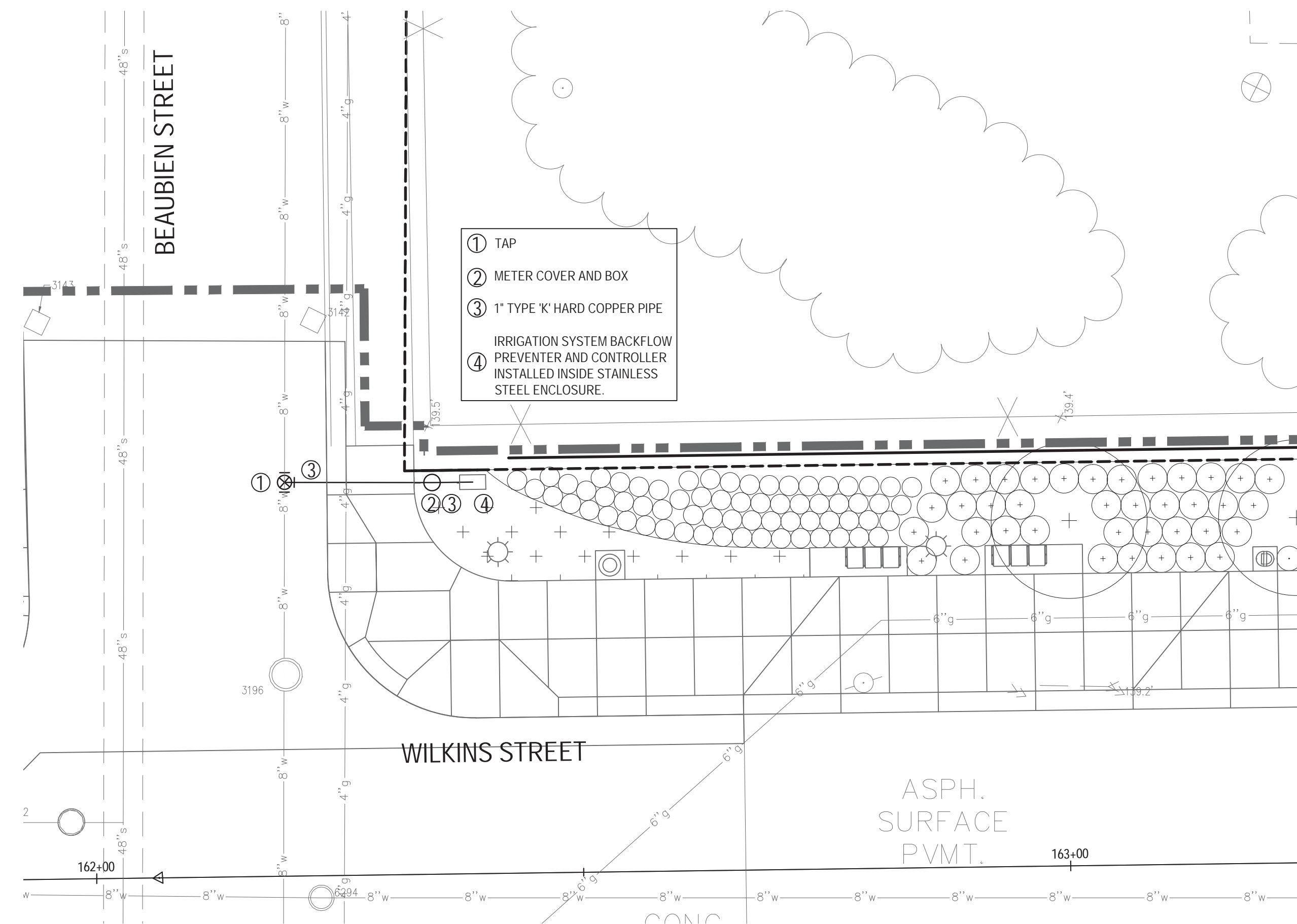
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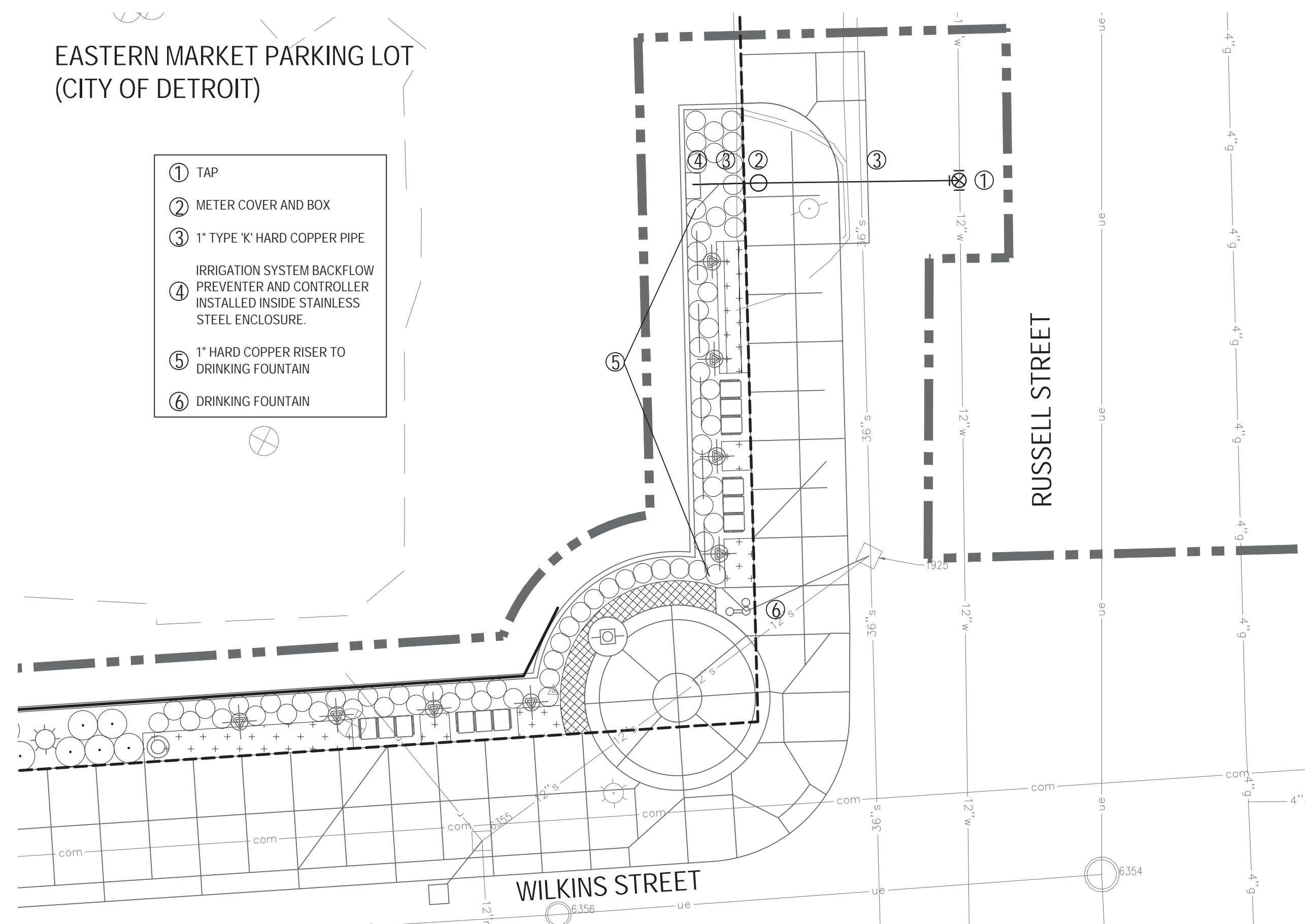
CITY OF DETROIT PROPERTY

- ① TAP
- ② METER COVER AND BOX
- ③ 1" TYPE 'K' HARD COPPER PIPE
- ④ IRRIGATION SYSTEM BACKFLOW PREVENTER AND CONTROLLER INSTALLED INSIDE STAINLESS STEEL ENCLOSURE.
- ⑤ 1" HARD COPPER RISER TO DRINKING FOUNTAIN
- ⑥ DRINKING FOUNTAIN

1 IRRIGATION ENLARGEMENT - MACK AND BRUSH  
PLAN 1"=10'



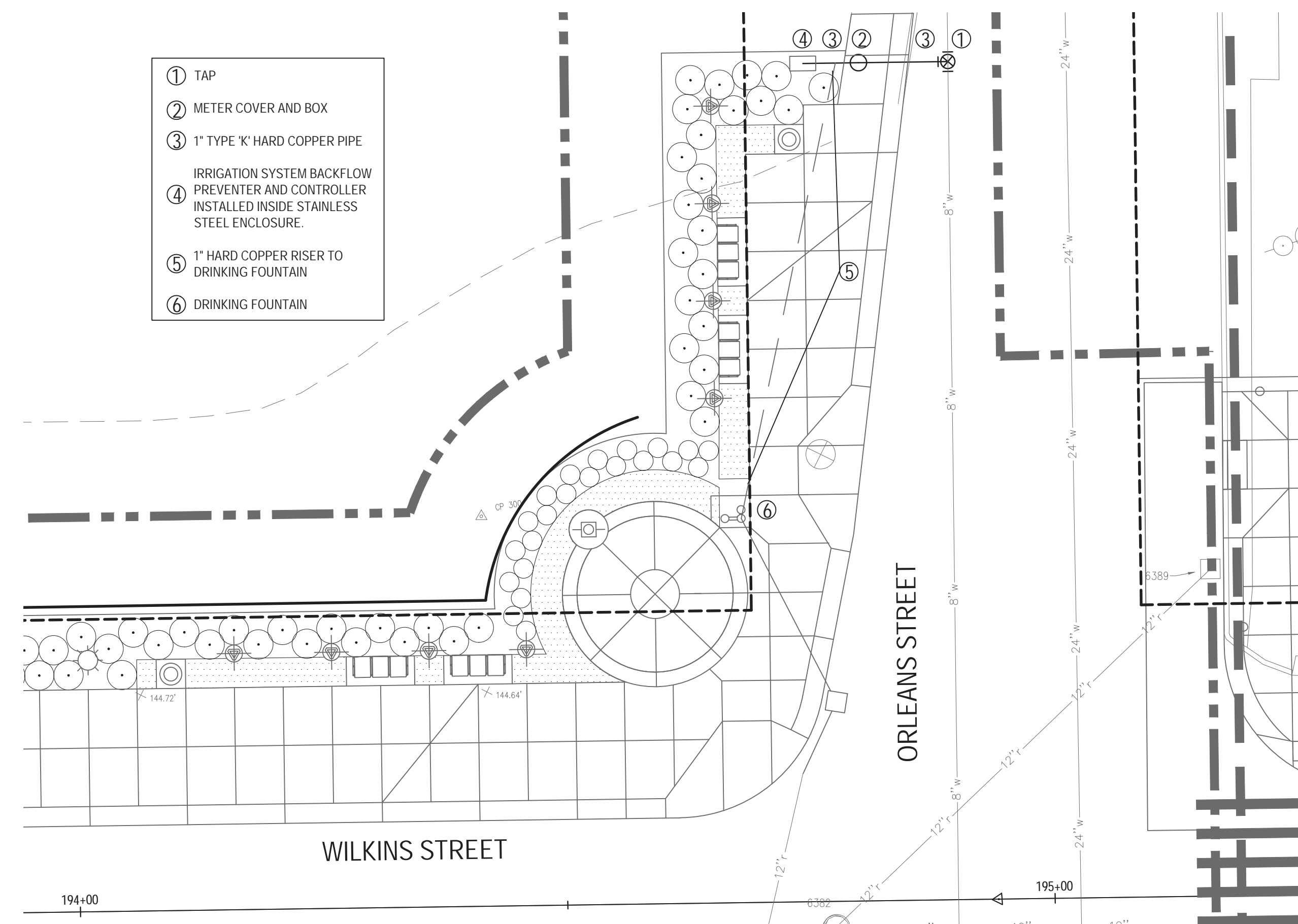
2 IRRIGATION ENLARGEMENT - WILKINS AND BEAUBIEN  
PLAN 1"=10'



EASTERN MARKET PARKING LOT  
(CITY OF DETROIT)

- ① TAP
- ② METER COVER AND BOX
- ③ 1" TYPE 'K' HARD COPPER PIPE
- ④ IRRIGATION SYSTEM BACKFLOW PREVENTER AND CONTROLLER INSTALLED INSIDE STAINLESS STEEL ENCLOSURE.
- ⑤ 1" HARD COPPER RISER TO DRINKING FOUNTAIN
- ⑥ DRINKING FOUNTAIN

3 IRRIGATION ENLARGEMENT - WILKINS AND RUSSELL  
PLAN 1"=10'



4 IRRIGATION ENLARGEMENT - WILKINS AND ORLEANS  
PLAN 1"=10'

Midtown Loop  
Phase IV  
Midtown Loop  
Detroit, Michigan



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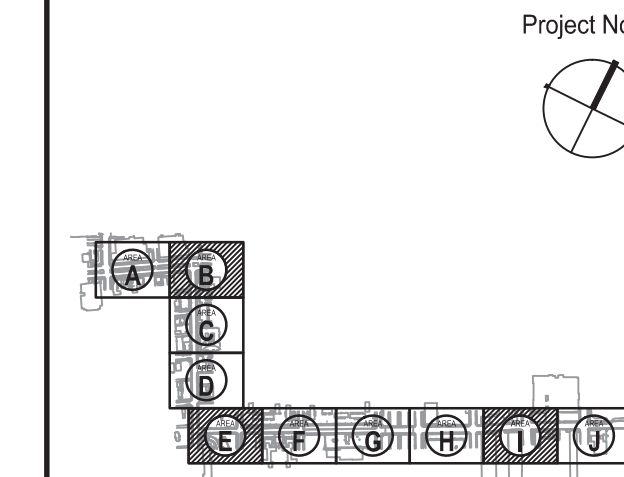


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50% CONSTRUCTION DOCUMENTS	0	NOV 05, 2012

SEALS AND SIGNATURES

KEY PLAN



DRAWING TITLE  
IRRIGATION  
ENLARGEMENTS

GRAPHIC SCALE TAKES PRECEDENCE FULL SIZE SCALE (24x36) AS NOTED 24708.003

PROJECT NUMBER

M-11.13

DRAWING NUMBER



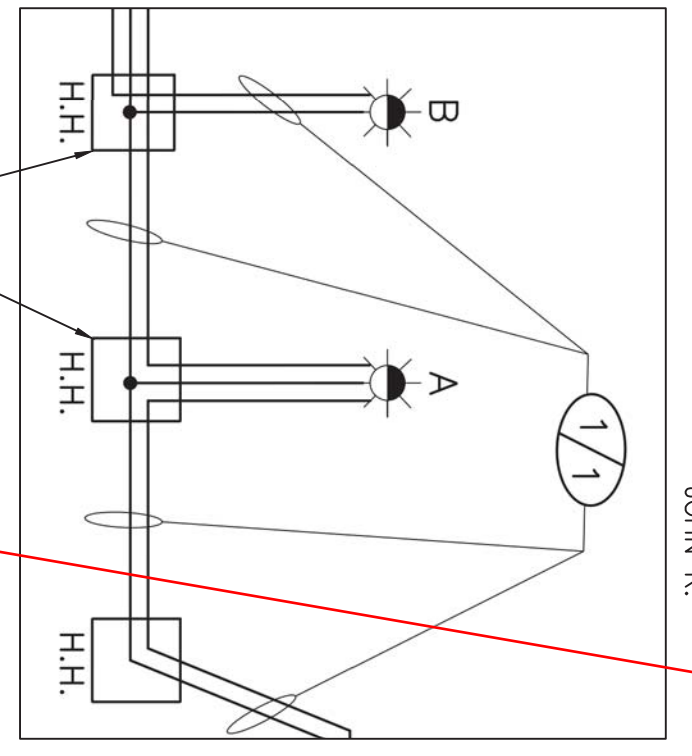
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Hh was actually placed in the sidewalk, not the green belt. No stub was left for future connection. The contractor was forced to tunnel beneath the sidewalk to tap into the structure. An additional structure was added to tie in and turn conduit south.

**NOTES:**  
 1. CONNECT "A" AND "B" PHASE FIXTURES ON MACK AVENUE INTO CORRESPONDING HANDHOLE (PER APPROPRIATE PHASE) ON JOHN R. AS INDICATED.

SAMPLE WIRING DIAGRAM (EXISTING FIXTURES ON JOHN R.)



encountered multiple underground utilities not shown on the plans, including, fiber-optic, PLD electric, DMC electric, and gas. Utilities were more or less parallel with the proposed conduit. Hand digging was required along most of the run to avoid conflict.

Existing bollard lighting were fed from the previous phases work and could not be supported with the new circuit. Wiring and conduit were removed and reinstalled to fit the new system

remove debris and concrete from sign foundation installation to place hand hole. Hand digging was required to find a location to relocate this Hh between utilities

REI assisted AICC in exposing underground utilities at the location of each proposed pedestrian light. After MissDig markings demonstrated a strong potential for conflict with buried fiber-optic and DMC electrical lines

3-DB CABLE, IN CONDUIT, 600V, 1/C#2, PLD (TYPICAL)  
 1-CONDUIT, SCHEDULE 80 PVC, 3 INCH, PLD (TYPICAL)

3-DB CABLE, IN CONDUIT, 600V, 1/C#2, PLD (TYPICAL)  
 1-CONDUIT, SCHEDULE 80 PVC, 2 INCH, PLD (TYPICAL)

**M-E1.1 - ELECTRICAL**

QTY	UNIT	ITEM DESCRIPTION
0	Ea	_Control Cabinet, Fdn, Rem, PLD
0	Ea	_Control Cabinet, Relocated
0	Ea	_Lighting Control Box and Foundation
0	Ea	_Transformer Pad, PLD
0	Ea	_Hh, Polymer
1	Ea	_Hh, Polymer, PLD
0	Ea	_Hh, Round, PLD
0	Ea	Hh, Round
0	Ea	_Hh, Type S, PLD
0	Ea	_Street Light, Relocate, PLD
7	Ea	_Pedestrian Light, Rem
7	Ea	Light Std Fdn, Rem
0	Ea	_Fdn, Rem, PLD
7	Ea	_Fixture Type M1
0	Ea	_Fixture Type M2, PLD
0	Ea	_Fixture Type M2, Relocate, PLD
0	Ea	_Fixture Type M3
0	Ft	_DB Cable, in Conduit, 600V, 3-1/C#1 & 1-1/C#6
0	Ea	_Elec, Serv, Tap
0	Ft	_Conduit, Encased, 1, 2 inch
0	Ft	_Conduit, Encased, EB 20, 3 inch, PLD
0	Ft	Conduit, Schedule 40, 1 1/2 inch
0	Ft	Conduit, Schedule 40, 2 inch
0	Ft	Conduit, Schedule 80 PVC, 2 inch
490	Ft	_Conduit, Schedule 80 PVC, 2 inch, PLD
0	Ft	_Conduit, Schedule 80 PVC, 3 inch, PLD
1480	Ft	_DB Cable, in Conduit, 600V, 1/C#2, PLD
0	Ft	DB Cable, in Conduit, 600V, 1/C#4
0	Ft	_DB Cable, in Conduit, 600V, 1/C#6, PLD
0	Ft	_DB Cable, in Conduit, 600V, 1/C#2/0, PLD

**Midtown Loop Phase IV**

Midtown Loop  
 Detroit, Michigan



Owners:



City of Detroit



Midtown Detroit, Inc.

**SMITHGROUP JJR**

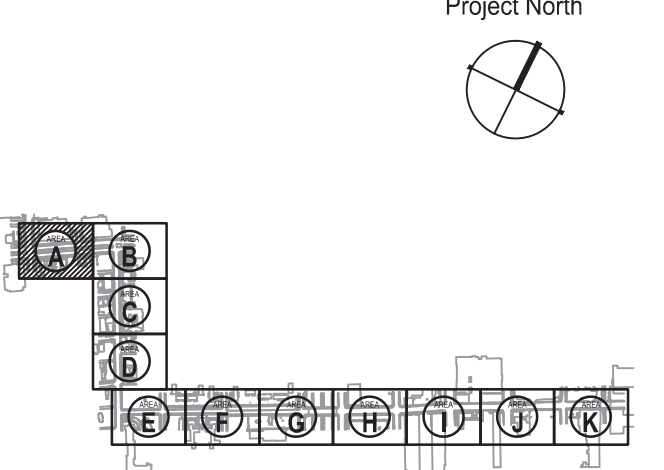
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 www.smithgroupjjr.com

SEE SHEET M-E2.2 - AREA B (STA. 142+82.90)

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SEALS AND SIGNATURES

KEY PLAN



DRAWING TITLE  
**ELECTRICAL PLAN - AREA A**

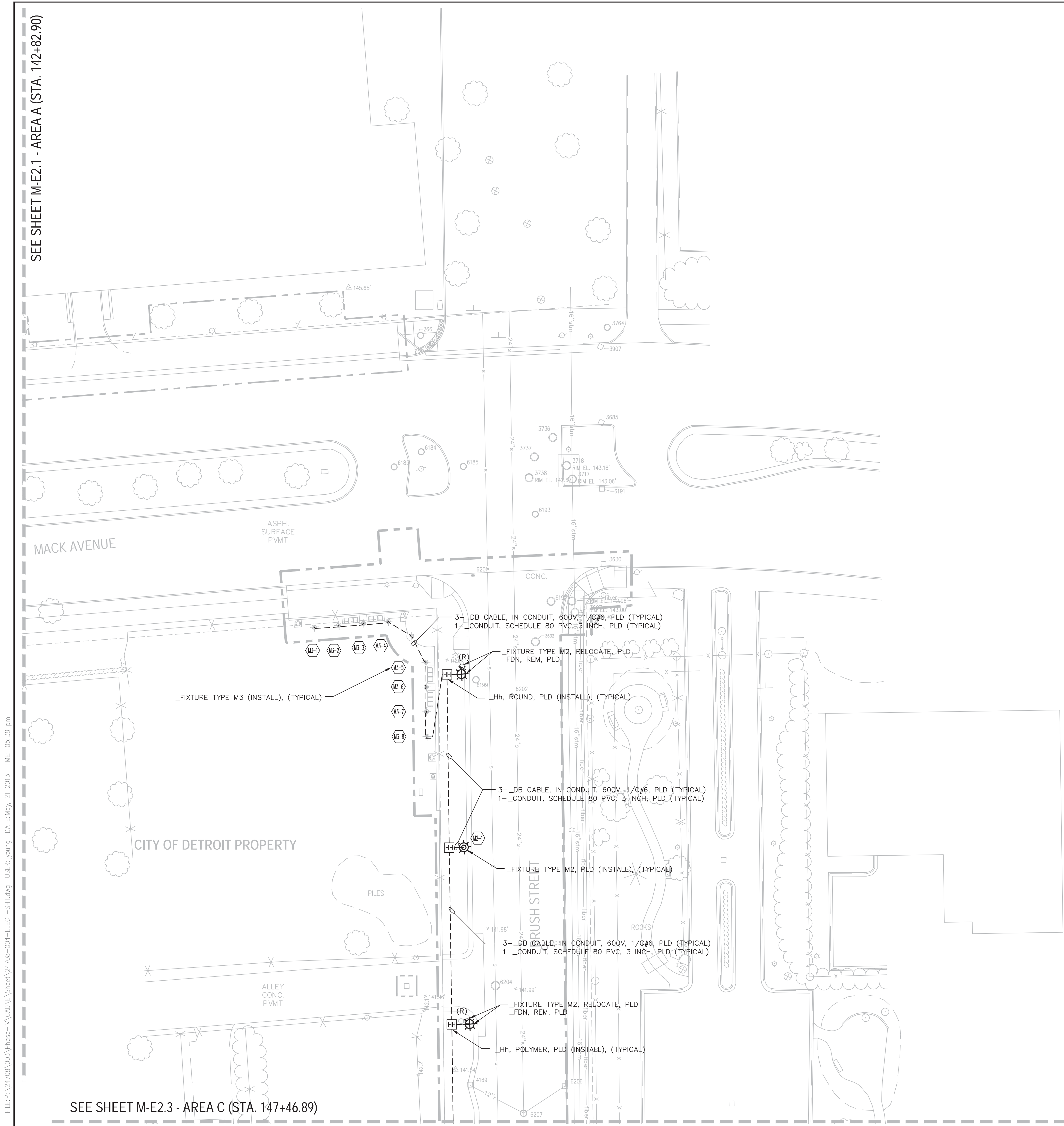
GRAPHIC SCALE  
 TAKES PRECEDENCE  
 FULL SIZE SCALE (24x36)  
 24708.003

PROJECT NUMBER  
**M-E1.1**

DRAWING NUMBER  
 351 of 497



SEE SHEET M-E2.1 - AREA A (STA. 142+82.90)



SEE SHEET M-E2.3 - AREA C (STA. 147+46.89)

M-E1.2 - ELECTRICAL

QTY	UNIT	ITEM DESCRIPTION
0	Ea	Control Cabinet, Fdn, Rem, PLD
0	Ea	Control Cabinet, Relocated
0	Ea	Lighting Control Box and Foundation
0	Ea	Transformer Pad, PLD
0	Ea	Hh, Polymer
2	Ea	Hh, Polymer, PLD
1	Ea	Hh, Round, PLD
0	Ea	Hh, Round
0	Ea	Hh, Type S, PLD
0	Ea	Street Light, Relocate, PLD
0	Ea	Pedestrian Light, Rem
0	Ea	Light Std Fdn, Rem
2	Ea	Fdn, Rem, PLD
0	Ea	Fixture Type M1
1	Ea	Fixture Type M2, PLD
2	Ea	Fixture Type M2, Relocate, PLD
8	Ea	Fixture Type M3
0	Ft	DB Cable, in Conduit, 600V, 3-1/C#1 & 1-1/C#6
0	Ea	Elec. Serv. Tap
0	Ft	Conduit, Encased, 1, 2 inch
0	Ft	Conduit, Encased, EB 20, 3 inch, PLD
0	Ft	Conduit, Schedule 40, 1 1/2 inch
0	Ft	Conduit, Schedule 40, 2 inch
0	Ft	Conduit, Schedule 80 PVC, 2 inch
0	Ft	Conduit, Schedule 80 PVC, 2 inch, PLD
300	Ft	Conduit, Schedule 80 PVC, 3 inch, PLD
0	Ft	DB Cable, in Conduit, 600V, 1/C#2, PLD
0	Ft	DB Cable, in Conduit, 600V, 1/C#4
900	Ft	DB Cable, in Conduit, 600V, 1/C#6, PLD
0	Ft	DB Cable, in Conduit, 600V, 1/C#20, PLD

FILE: P:\24708\003\Phase-M-E2.1\Sheet\24708-004-ELECT-SHIF.dwg USER: jyoung DATE: May, 21 2013 TIME: 05:39 pm

Midtown Loop Phase IV

Midtown Loop Detroit, Michigan



Owners:



City of Detroit



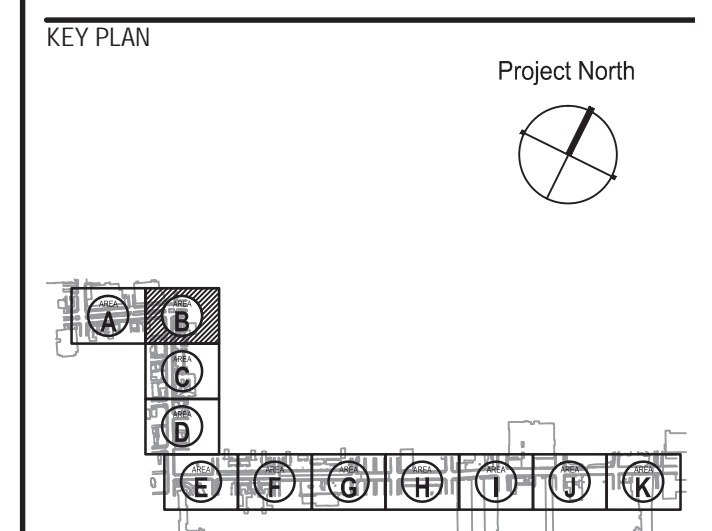
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GRADE INSPECTION	2	JAN 30 2013
80% CONSTRUCTION DOCUMENTS	1	JAN 07 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05 2012

SEALS AND SIGNATURES



DRAWING TITLE  
**ELECTRICAL PLAN - AREA B**

GRAPHIC SCALE  
TAKES PRECEDENCE  
FULL SIZE SCALE (24x36)

PROJECT NUMBER  
**24708.003**

DRAWING NUMBER  
**M-E1.2**

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94 of 97

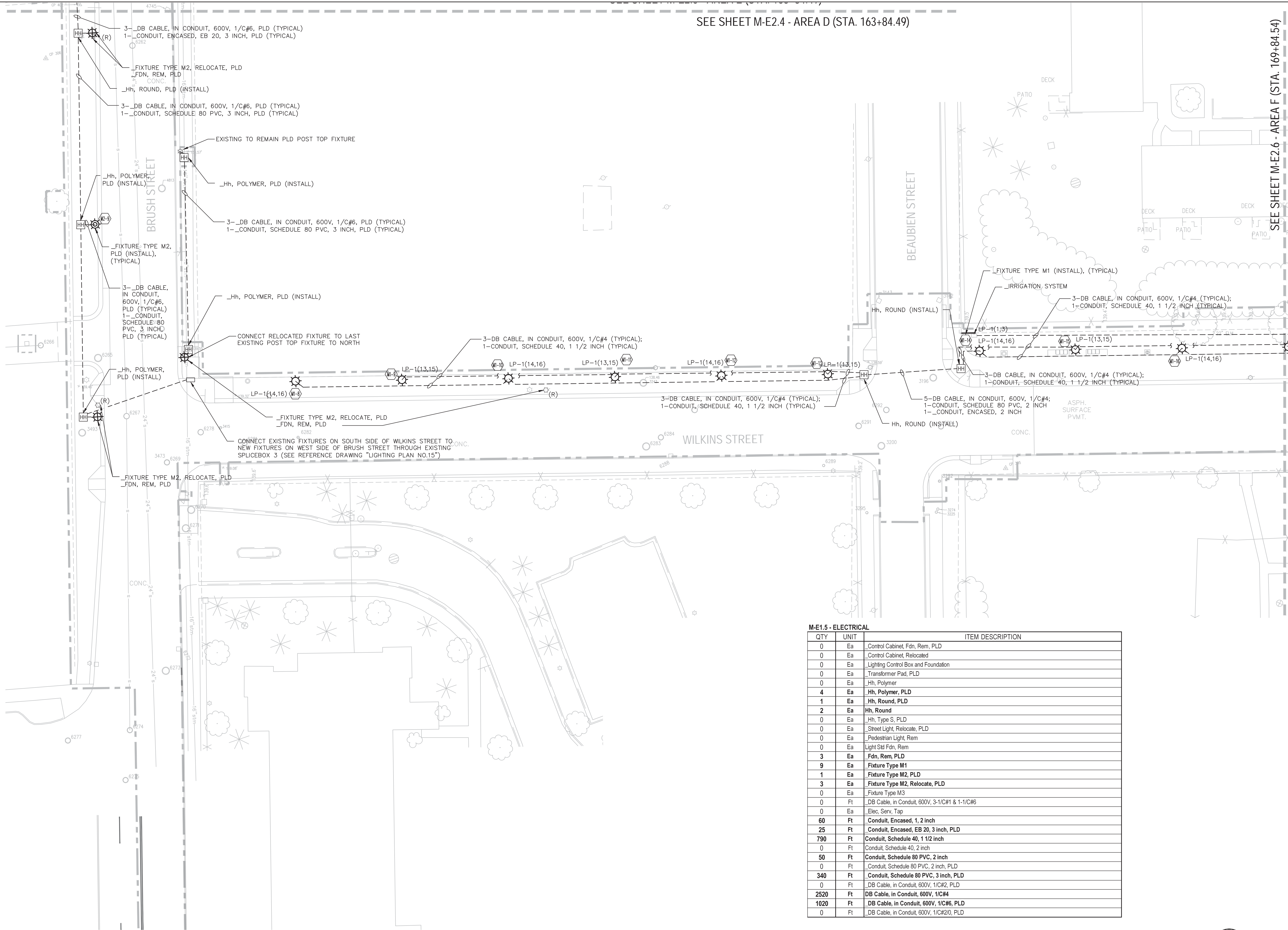






SEE SHEET M-E2.4 - AREA D (STA. 163+84.49)

SEE SHEET M-E2.6 - AREA F (STA. 169+84.54)



**Midtown Loop Phase IV**  
 Midtown Loop  
 Detroit, Michigan

**MDOT**  
 Michigan Department of Transportation

Owners:  
  
 City of Detroit



Midtown Detroit, Inc.



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50% CONSTRUCTION DOCUMENTS	0	NOV 05 2012

SEALS AND SIGNATURES

KEY PLAN



**M-E1.5 - ELECTRICAL**

QTY	UNIT	ITEM DESCRIPTION
0	Ea	.Control Cabinet, Fdn, Rem, PLD
0	Ea	.Control Cabinet, Relocated
0	Ea	.Lighting Control Box and Foundation
0	Ea	.Transformer Pad, PLD
0	Ea	.Hh, Polymer
4	Ea	.Hh, Polymer, PLD
1	Ea	.Hh, Round, PLD
2	Ea	.Hh, Round
0	Ea	.Hh, Type S, PLD
0	Ea	.Street Light, Relocate, PLD
0	Ea	.Pedestrian Light, Rem
0	Ea	.Light Sht Fdn, Rem
3	Ea	.Fdn, Rem, PLD
9	Ea	.Fixture Type M1
1	Ea	.Fixture Type M2, PLD
3	Ea	.Fixture Type M2, Relocate, PLD
0	Ea	.Fixture Type M3
0	Ft	.DB Cable, in Conduit, 600V, 3-1/C#1 & 1-1/C#6
0	Ea	.Elec. Serv. Tap
60	Ft	.Conduit, Encased, 1, 2 inch
25	Ft	.Conduit, Encased, EB 20, 3 inch, PLD
790	Ft	.Conduit, Schedule 40, 1 1/2 inch
0	Ft	.Conduit, Schedule 40, 2 inch
50	Ft	.Conduit, Schedule 80 PVC, 2 inch
0	Ft	.Conduit, Schedule 80 PVC, 2 inch, PLD
340	Ft	.Conduit, Schedule 80 PVC, 3 inch, PLD
0	Ft	.DB Cable, in Conduit, 600V, 1/C#2, PLD
2520	Ft	.DB Cable, in Conduit, 600V, 1/C#4
1020	Ft	.DB Cable, in Conduit, 600V, 1/C#6, PLD
0	Ft	.DB Cable, in Conduit, 600V, 1/C#2/0, PLD

DRAWING TITLE  
**ELECTRICAL PLAN - AREA E**

GRAPHIC SCALE  
 TAKES PRECEDENCE  
 FULL SIZE SCALE (24x36)  
 24708.003

PROJECT NUMBER  
**M-E1.5**

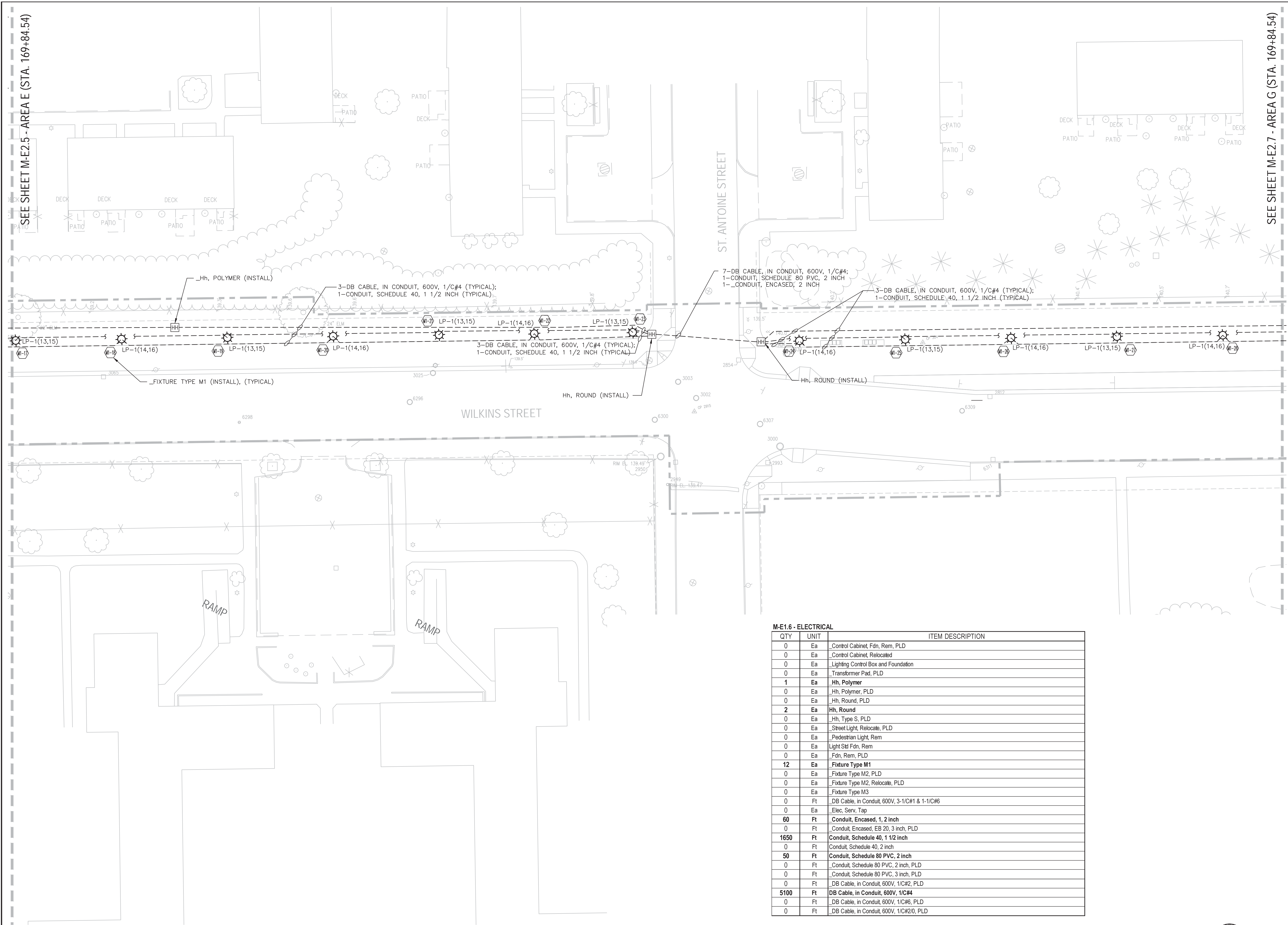
DRAWING NUMBER  
 355 of 497



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SEE SHEET M-E2.5 - AREA E (STA. 169+84.54)

SEE SHEET M-E2.7 - AREA G (STA. 169+84.54)



Midtown Loop  
Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



Midtown Detroit, Inc.

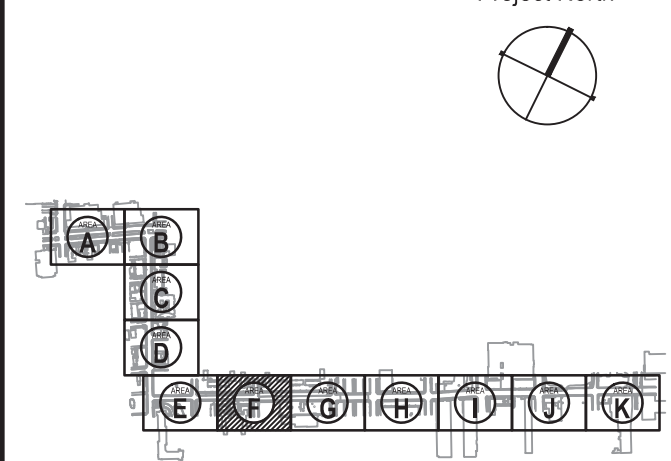
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SEALS AND SIGNATURES

KEY PLAN



DRAWING TITLE  
**ELECTRICAL PLAN -  
AREA F**

GRAPHIC SCALE  
TAKES PRECEDENCE  
FULL SIZE SCALE (24x36)

24708.003

PROJECT NUMBER

**M-E1.6**

DRAWING NUMBER

356 of 497

M-E1.6 - ELECTRICAL

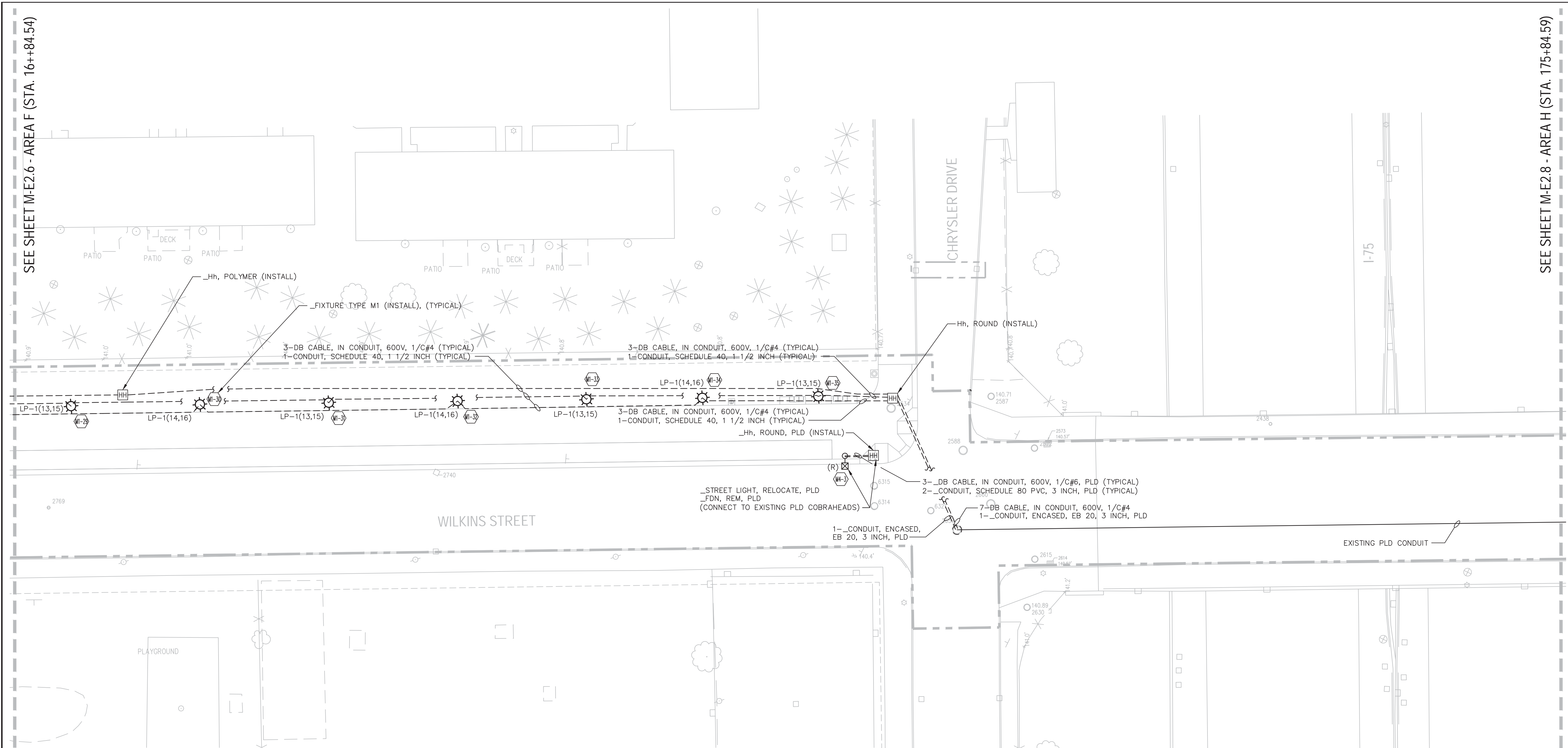
QTY	UNIT	ITEM DESCRIPTION
0	Ea	_Control Cabinet, Fdn, Rem, PLD
0	Ea	_Control Cabinet, Relocated
0	Ea	_Lighting Control Box and Foundation
0	Ea	_Transformer Pad, PLD
1	Ea	Hh, Polymer
0	Ea	Hh, Polymer, PLD
0	Ea	Hh, Round, PLD
2	Ea	Hh, Round
0	Ea	Hh, Type S, PLD
0	Ea	_Street Light, Relocate, PLD
0	Ea	_Pedestrian Light, Rem
0	Ea	_Light Sht Fdn, Rem
0	Ea	_Fdn, Rem, PLD
12	Ea	Fixture Type M1
0	Ea	Fixture Type M2, PLD
0	Ea	Fixture Type M2, Relocate, PLD
0	Ea	Fixture Type M3
0	Ft	_DB Cable, in Conduit, 600V, 3-1/C#1 & 1-1/C#6
0	Ea	_Elec, Serv, Tap
60	Ft	Conduit, Encased, 1, 2 inch
0	Ft	_Conduit, Encased, EB 20, 3 inch, PLD
1650	Ft	Conduit, Schedule 40, 1 1/2 inch
0	Ft	Conduit, Schedule 40, 2 inch
50	Ft	Conduit, Schedule 80 PVC, 2 inch
0	Ft	_Conduit, Schedule 80 PVC, 2 inch, PLD
0	Ft	_Conduit, Schedule 80 PVC, 3 inch, PLD
0	Ft	_DB Cable, in Conduit, 600V, 1/C#2, PLD
5100	Ft	DB Cable, in Conduit, 600V, 1/C#4
0	Ft	_DB Cable, in Conduit, 600V, 1/C#6, PLD
0	Ft	_DB Cable, in Conduit, 600V, 1/C#20, PLD

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SEE SHEET M-E2.6 - AREA F (STA. 16+84.54)

SEE SHEET M-E2.8 - AREA H (STA. 175+84.59)



**M-E1.7 - ELECTRICAL**

QTY	UNIT	ITEM DESCRIPTION
0	Ea	_Control Cabinet, Fdn, Rem, PLD
0	Ea	_Control Cabinet, Relocated
0	Ea	_Lighting Control Box and Foundation
0	Ea	_Transformer Pad, PLD
1	Ea	_Hh, Polymer
0	Ea	_Hh, Polymer, PLD
2	Ea	_Hh, Round, PLD
0	Ea	Hh, Round
0	Ea	Hh, Type S, PLD
1	Ea	_Street Light, Relocate, PLD
0	Ea	_Pedestrian Light, Rem
0	Ea	Light Std Fdn, Rem
1	Ea	_Fdn, Rem, PLD
7	Ea	_Fixture Type M1
0	Ea	_Fixture Type M2, PLD
0	Ea	_Fixture Type M2, Relocate, PLD
0	Ea	_Fixture Type M3
0	Ft	_DB Cable, in Conduit, 600V, 3-1/C#1 & 1-1/C#6
0	Ea	_Elec, Serv, Tap
0	Ft	_Conduit, Encased, 1, 2 inch
200	Ft	_Conduit, Encased, EB 20, 3 inch, PLD
1050	Ft	Conduit, Schedule 40, 1 1/2 inch
0	Ft	Conduit, Schedule 40, 2 inch
40	Ft	Conduit, Schedule 80 PVC, 2 inch
0	Ft	_Conduit, Schedule 80 PVC, 2 inch, PLD
40	Ft	_Conduit, Schedule 80 PVC, 3 inch, PLD
0	Ft	_DB Cable, in Conduit, 600V, 1/C#2, PLD
5040	Ft	DB Cable, in Conduit, 600V, 1/C#4
30	Ft	_DB Cable, in Conduit, 600V, 1/C#6, PLD
0	Ft	_DB Cable, in Conduit, 600V, 1/C#20, PLD

Midtown Loop  
Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



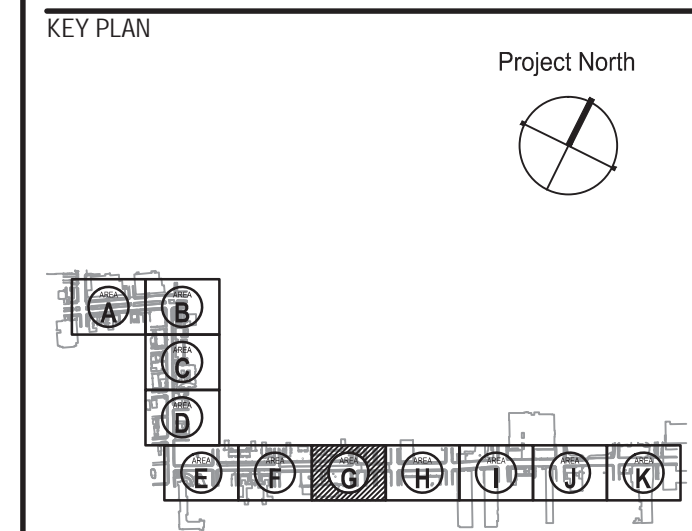
Midtown Detroit, Inc.

**SMITHGROUP JJR**

201 DEPOT STREET  
SECOND FLOOR  
ANN ARBOR, MI 48104  
734.662.4457  
www.smithgroupjjr.com

ISSUED FOR	REV	DATE
BIDDING DOCUMENTS	5	MAY 21 2013
BIDDING DOCUMENTS	4	MAY 02 2013
100% CONSTRUCTION DOCUMENTS	3	APR 01 2013
GRADE INSPECTION	2	JAN 30 2013
80% CONSTRUCTION DOCUMENTS	1	JAN 07 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05 2012

SEALS AND SIGNATURES



DRAWING TITLE  
**ELECTRICAL PLAN - AREA G**

GRAPHIC SCALE  
TAKES PRECEDENCE  
FULL SIZE SCALE (24x36)

24708.003

PROJECT NUMBER  
**M-E1.7**

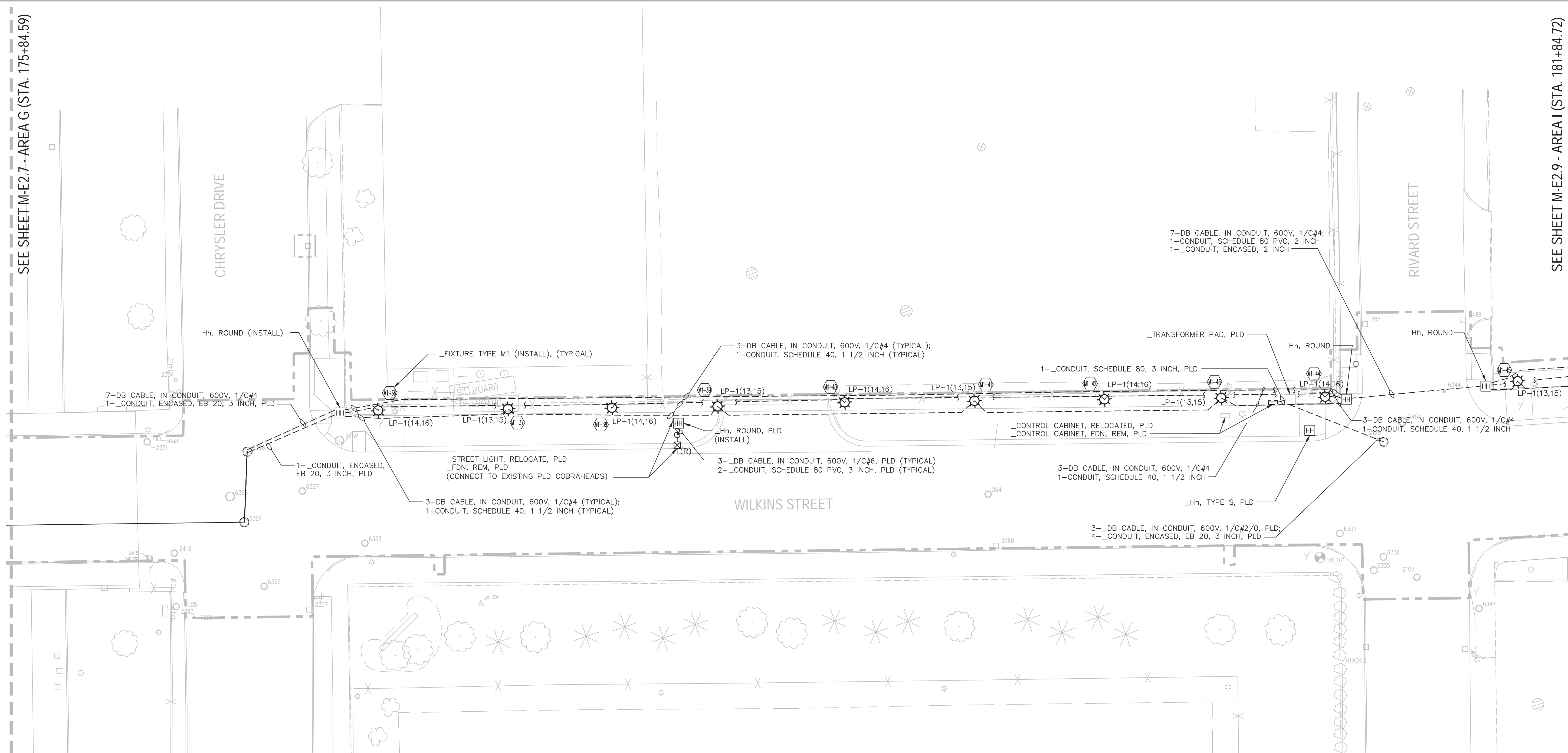
DRAWING NUMBER  
357 of 497



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SEE SHEET M-E2.7 - AREA G (STA. 175+84.59)

SEE SHEET M-E2.9 - AREA I (STA. 181+84.72)



# Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



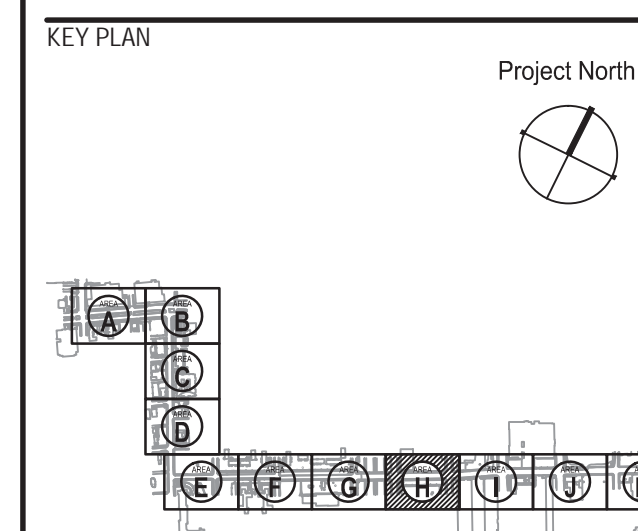
Midtown Detroit, Inc.

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BIDDING DOCUMENTS	4	MAY 02 2013
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GRADE INSPECTION	2	JAN 30 2013
80% CONSTRUCTION DOCUMENTS	1	JAN 07 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05 2012

SEALS AND SIGNATURES



DRAWING TITLE

### ELECTRICAL PLAN - AREA H

GRAPHIC SCALE  
TAKES PRECEDENCE  
FULL SIZE SCALE (24x36)

24708.003

PROJECT NUMBER

## M-E1.8

DRAWING NUMBER

38 of 497

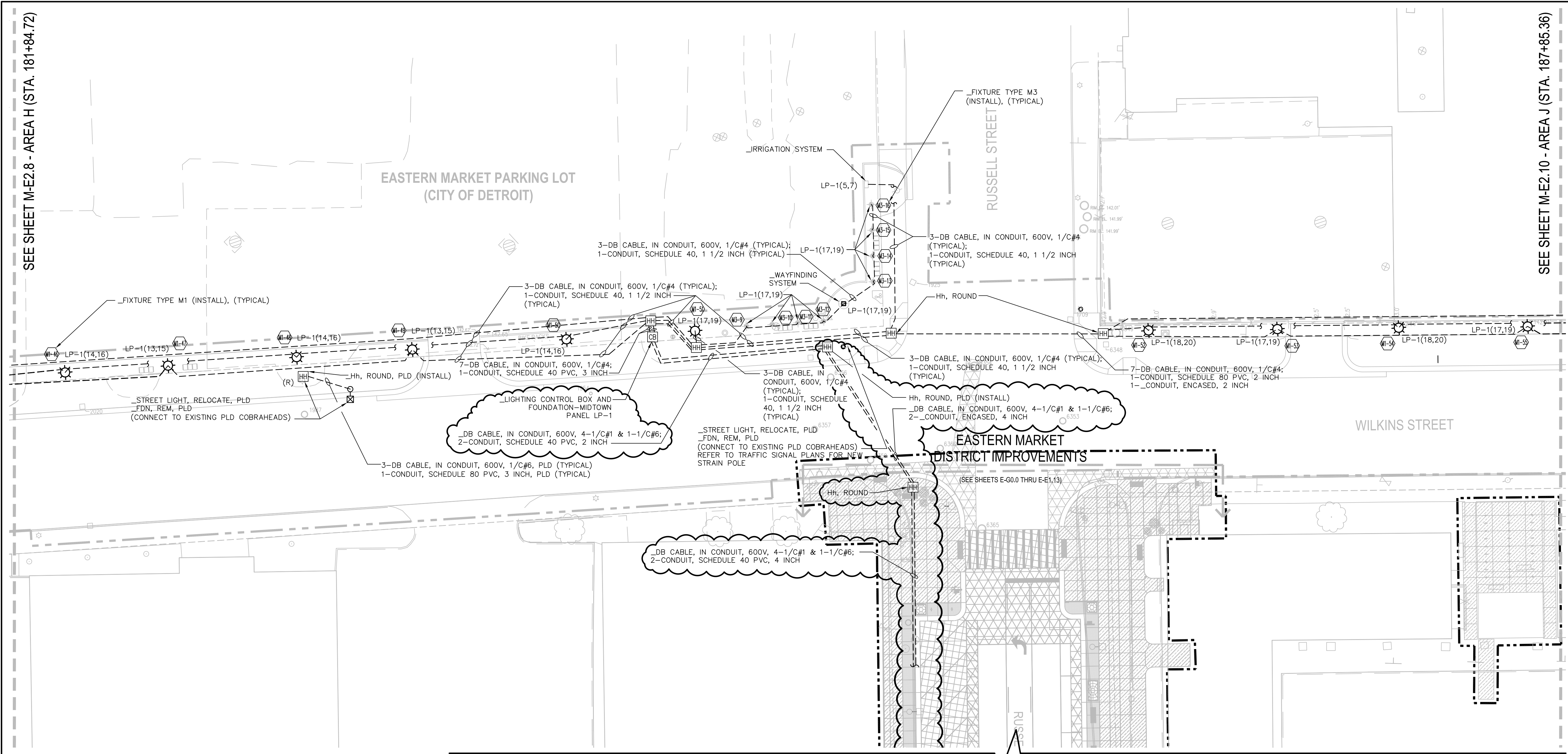
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QTY	UNIT	ITEM DESCRIPTION
1	Ea	Control Cabinet, Fdn, Rem, PLD
1	Ea	Control Cabinet, Relocated
0	Ea	Lighting Control Box and Foundation
1	Ea	Transformer Pad, PLD
0	Ea	Hh, Polymer
0	Ea	Hh, Polymer, PLD
1	Ea	Hh, Round, PLD
3	Ea	Hh, Round
1	Ea	Hh, Type S, PLD
1	Ea	Street Light, Relocate, PLD
0	Ea	Pedestrian Light, Rem
0	Ea	Light Std Fdn, Rem
1	Ea	Fdn, Rem, PLD
10	Ea	Fixture Type M1
0	Ea	Fixture Type M2, PLD
0	Ea	Fixture Type M2, Relocate, PLD
0	Ea	Fixture Type M3
0	Ft	_DB Cable, in Conduit, 600V, 3-1/C#1 & 1-1/C#6
0	Ea	_Elec. Serv, Tap
100	Ft	_Conduit, Encased, 1, 2 inch
400	Ft	_Conduit, Encased, EB 20, 3 inch, PLD
1300	Ft	_Conduit, Schedule 40, 1 1/2 inch
0	Ft	_Conduit, Schedule 40, 2 inch
120	Ft	_Conduit, Schedule 80 PVC, 2 inch
0	Ft	_Conduit, Schedule 80 PVC, 2 inch, PLD
10	Ft	_Conduit, Schedule 80 PVC, 3 inch, PLD
0	Ft	_DB Cable, in Conduit, 600V, 1/C#2, PLD
5725	Ft	_DB Cable, in Conduit, 600V, 1/C#4
30	Ft	_DB Cable, in Conduit, 600V, 1/C#6, PLD
135	Ft	_DB Cable, in Conduit, 600V, 1/C#2/0, PLD



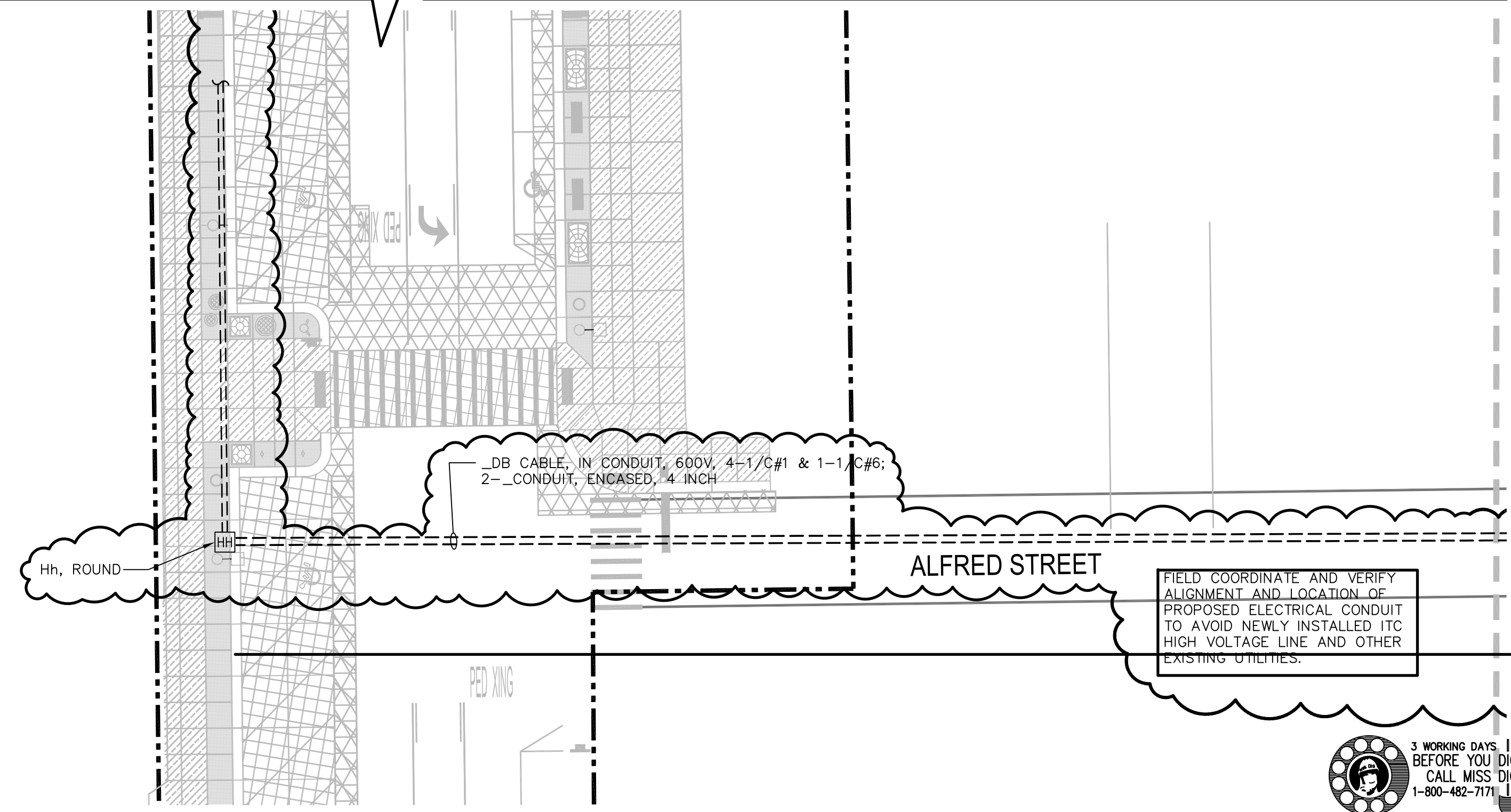
SEE SHEET M-E2.8 - AREA H (STA. 181+84.72)

SEE SHEET M-E2.10 - AREA J (STA. 187+85.36)



**M-E1.9 - ELECTRICAL**

QTY	UNIT	ITEM DESCRIPTION
0	Ea	_Control Cabinet, Fdn, Rem, PLD
0	Ea	_Control Cabinet, Relocated
1	Ea	Lighting Control Box and Foundation
0	Ea	_Transformer Pad, PLD
2	Ea	Hh, Polymer
0	Ea	Hh, Polymer, PLD
4	Ea	Hh, Round, PLD
4	Ea	Hh, Round
0	Ea	Hh, 1 type S, PLD
2	Ea	Street Light, Relocate, PLD
0	Ea	_Pedestrian Light, Rem
0	Ea	Light Std Fdn, Rem
1	Ea	_Fdn, Rem, PLD
10	Ea	Fixture Type M1
0	Ea	_Fixture Type M2, PLD
0	Ea	_Fixture Type M2, Relocate, PLD
8	Ea	Fixture Type M3
980	Ft	DB Cable, in Conduit, 600V, 4-1/C#1 & 1-1/C#6
1	Ea	Elec, Serv, Tap
80	Ft	Conduit, Encased, 1, 2 inch
0	Ft	Conduit, Encased, EB 20, 3 inch, PLD
630	Ft	Conduit, Encased, EB 20, 4 inch, PLD
1770	Ft	Conduit, Schedule 40, 1 1/2 inch
250	Ft	Conduit, Schedule 40, 2 inch
620	Ft	Conduit, Schedule 40, 4 inch
80	Ft	Conduit, Schedule 80 PVC, 2 inch
0	Ft	_Conduit, Schedule 80 PVC, 2 inch, PLD
0	Ft	_Conduit, Schedule 80 PVC, 3 inch, PLD
0	Ft	_DB Cable, in Conduit, 600V, 1/C#2, PLD
5870	Ft	DB Cable, in Conduit, 600V, 1/C#4
60	Ft	DB Cable, in Conduit, 600V, 1/C#6, PLD
0	Ft	_DB Cable, in Conduit, 600V, 1/C#20, PLD



**Midtown Loop Phase IV**  
 Midtown Loop  
 Detroit, Michigan

**MDOT**  
 Michigan Department of Transportation

Owners:  
  
 City of Detroit

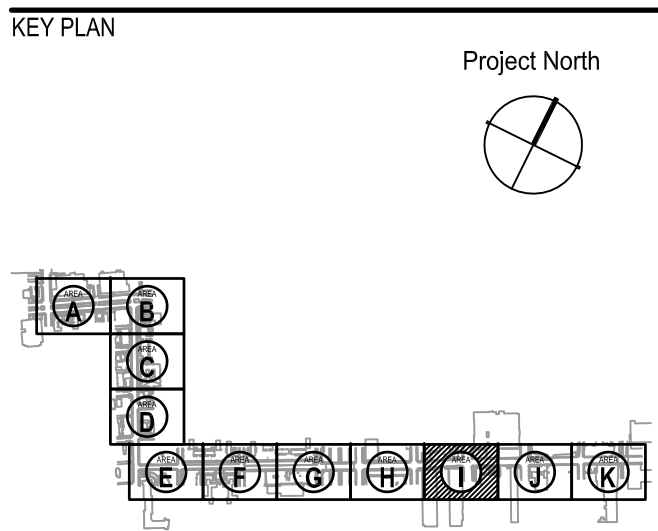
**MIDTOWN DETROIT INC.**  
 Midtown Detroit, Inc.

**SMITHGROUP JJR**  
 201 DEPOT STREET  
 SECOND FLOOR  
 ANN ARBOR, MI 48104  
 734.662.4457  
 www.smithgroupjjr.com

ISSUED FOR \_\_\_\_\_ REV \_\_\_\_\_ DATE \_\_\_\_\_

REVISION	NO.	DATE
REVISION 1	6	SEP.15.2014
BIDDING DOCUMENTS	5	MAY.21.2013
BIDDING DOCUMENTS	4	MAY.02.2013
100% CONSTRUCTION DOCUMENTS	3	APR.01.2013
GRADE INSPECTION	2	JAN.30.2013
80% CONSTRUCTION DOCUMENTS	1	JAN.07.2013
50% CONSTRUCTION DOCUMENTS	0	NOV.05.2012

SEALS AND SIGNATURES



DRAWING TITLE  
**ELECTRICAL PLAN - AREA I**

GRAPHIC SCALE TAKES PRECEDENCE FULL SIZE SCALE (24x36) **24708.003**

PROJECT NUMBER **M-E1.9**

DRAWING NUMBER **359 of 497**

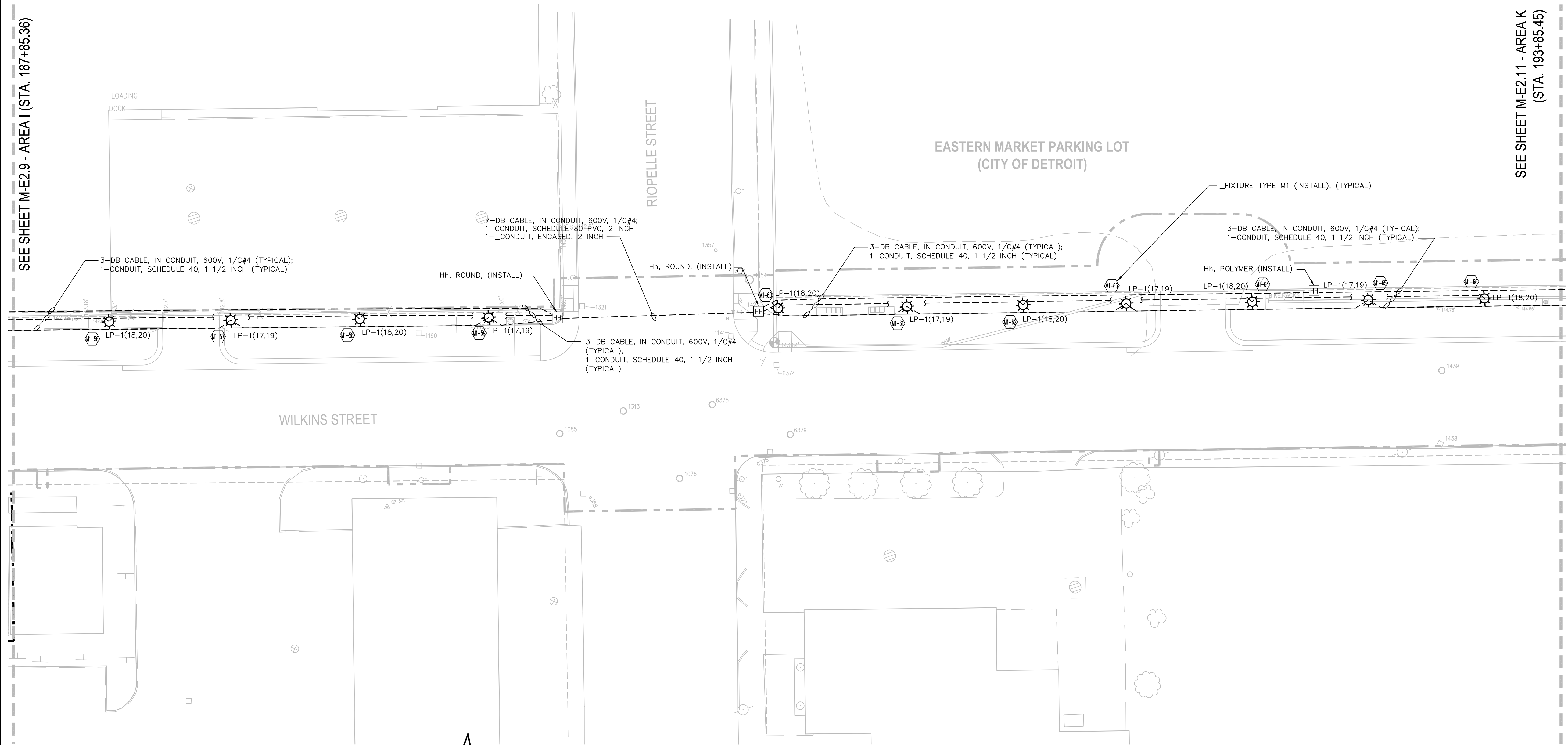
3 WORKING DAYS BEFORE YOU DIG CALL MISS DIG 1-800-482-7171

FIELD COORDINATE AND VERIFY ALIGNMENT AND LOCATION OF PROPOSED ELECTRICAL CONDUIT TO AVOID NEWLY INSTALLED ITC HIGH VOLTAGE LINE AND OTHER EXISTING UTILITIES.

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SEE SHEET M-E2.9 - AREA I (STA. 187+85.36)

SEE SHEET M-E2.11 - AREA K  
(STA. 193+85.45)



# Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



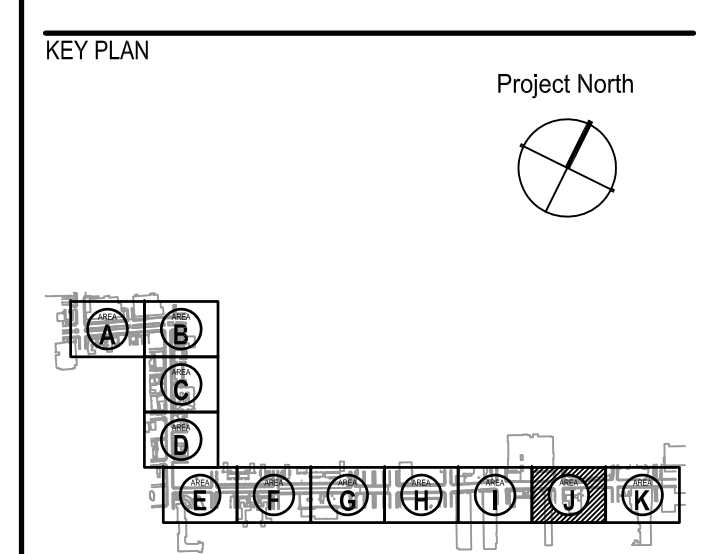
Midtown Detroit, Inc.

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ISSUED FOR	REV	DATE
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BIDDING DOCUMENTS	4	MAY.02.2013
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80% CONSTRUCTION DOCUMENTS	1	JAN.07.2013
50% CONSTRUCTION DOCUMENTS	0	NOV.05.2012

SEALS AND SIGNATURES



DRAWING TITLE  
**ELECTRICAL PLAN - AREA J**

GRAPHIC SCALE  
TAKES PRECEDENCE  
FULL SIZE SCALE (24x36)  
**24708.003**

PROJECT NUMBER  
**M-E1.10**  
DRAWING NUMBER  
360 of 497



### M-E1.10 - ELECTRICAL

QTY	UNIT	ITEM DESCRIPTION
0	Ea	_Control Cabinet, Fdn, Rem, PLD
0	Ea	_Control Cabinet, Relocated
0	Ea	_Lighting Control Box and Foundation
0	Ea	_Transformer Pad, PLD
1	Ea	<b>Hh, Polymer</b>
0	Ea	_Hh, Polymer, PLD
0	Ea	_Hh, Round, PLD
2	Ea	<b>Hh, Round</b>
0	Ea	_Hh, Type S, PLD
0	Ea	_Street Light, Relocate, PLD
0	Ea	_Pedestrian Light, Rem
0	Ea	Light Std Fdn, Rem
0	Ea	_Fdn, Rem, PLD
11	Ea	<b>Fixture Type M1</b>
0	Ea	_Fixture Type M2, PLD
0	Ea	_Fixture Type M2, Relocate, PLD
0	Ea	_Fixture Type M3
100	Ft	<b>DB Cable, in Conduit, 600V, 4-1/C#1 &amp; 1-1/C#6</b>
0	Ea	_Elec. Serv. Tap
80	Ft	<b>Conduit, Encased, 1, 2 inch</b>
0	Ft	Conduit, Encased, EB 20, 3 inch, PLD
180	Ft	<b>Conduit, Encased, EB 20, 4 inch, PLD</b>
520	Ft	<b>Conduit, Schedule 40, 1 1/2 inch</b>
0	Ft	Conduit, Schedule 40, 2 inch
0	Ft	Conduit, Schedule 40, 4 inch
80	Ft	<b>Conduit, Schedule 80 PVC, 2 inch</b>
0	Ft	_Conduit, Schedule 80 PVC, 2 inch, PLD
0	Ft	_Conduit, Schedule 80 PVC, 3 inch, PLD
0	Ft	_DB Cable, in Conduit, 600V, 1/C#2, PLD
2120	Ft	<b>DB Cable, in Conduit, 600V, 1/C#4</b>
0	Ft	_DB Cable, in Conduit, 600V, 1/C#6, PLD
0	Ft	_DB Cable, in Conduit, 600V, 1/C#2/0, PLD

TRANSFORMER AND CONCRETE PAD TO BE INSTALLED AS PART OF THE SHED 5 PROJECT BY OTHERS. FIELD COORDINATE AND VERIFY THE TERMINATION AND LOCATION OF THE ELECTRICAL CONDUIT LINES WITH THE LOCATION OF THE TRANSFORMER AND PAD.

FIELD COORDINATE AND VERIFY ALIGNMENT AND LOCATION OF PROPOSED ELECTRICAL CONDUIT TO AVOID NEWLY INSTALLED ITC HIGH VOLTAGE LINE AND OTHER EXISTING UTILITIES.

\_DB CABLE, IN CONDUIT, 600V, 4-1/C#1 & 1-1/C#6;  
2-CONDUIT, ENCASED, 4 INCH

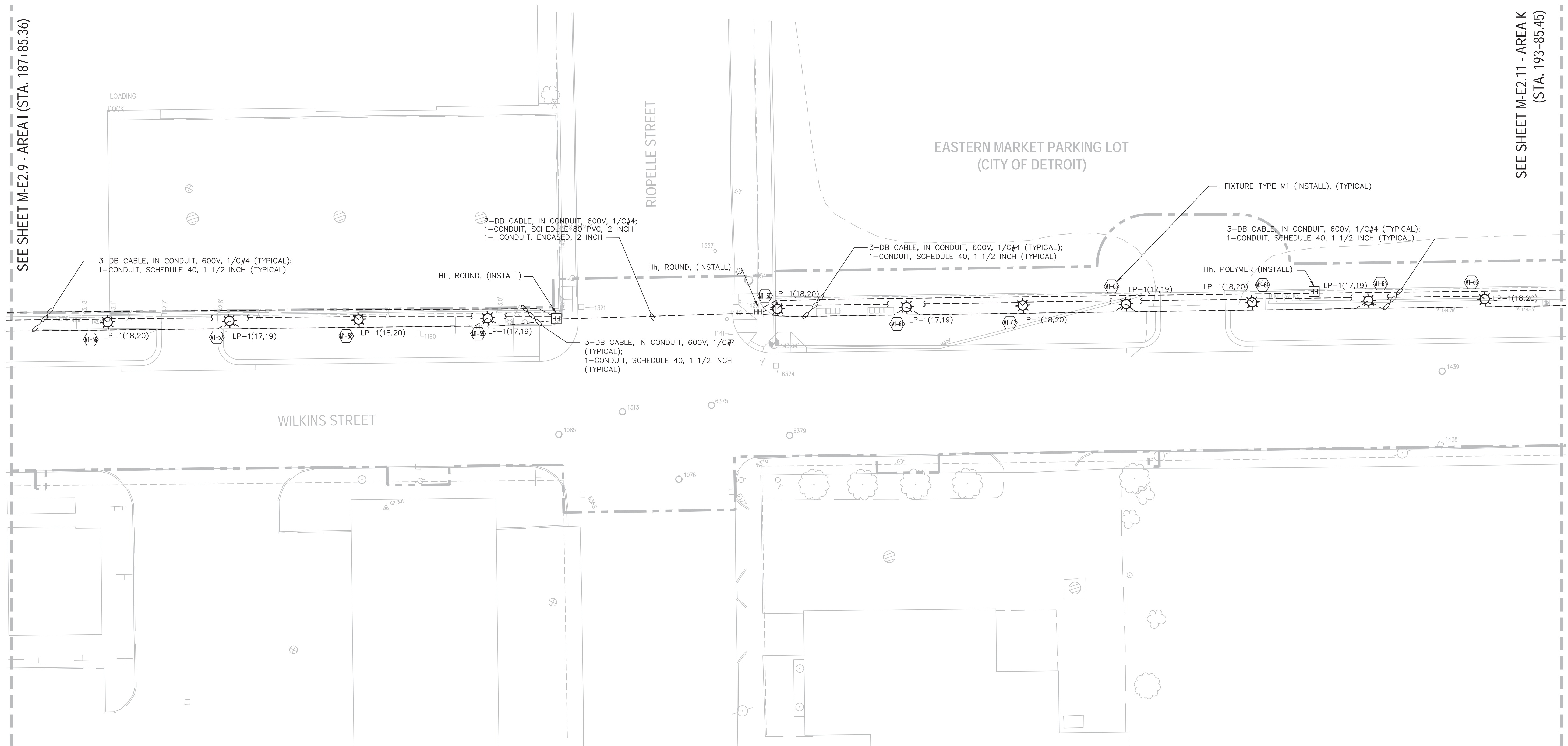
ALFRED STREET

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SEE SHEET M-E2.9 - AREA I (STA. 187+85.36)

SEE SHEET M-E2.11 - AREA K  
(STA. 193+85.45)



# Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



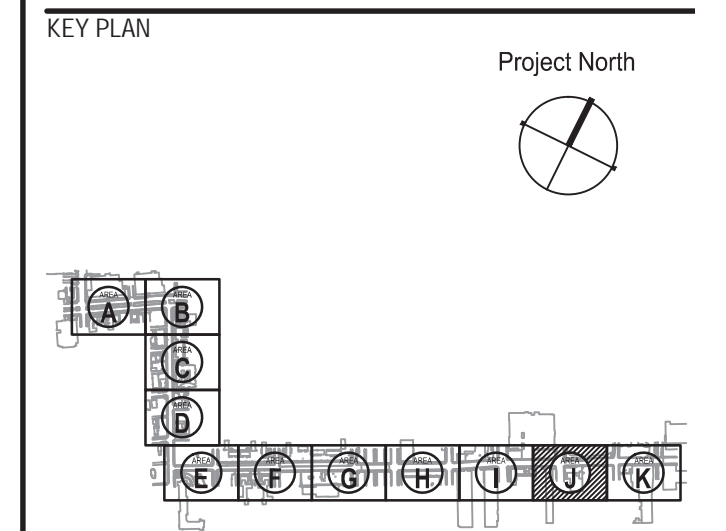
Midtown Detroit, Inc.

## SMITHGROUP JJR

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SECOND FLOOR  
ANN ARBOR, MI 48104  
734.662.4457  
www.smithgroupjjr.com

ISSUED FOR	REV	DATE
BIDDING DOCUMENTS	5	MAY 21 2013
BIDDING DOCUMENTS	4	MAY 02 2013
100% CONSTRUCTION DOCUMENTS	3	APR 01 2013
GRADE INSPECTION	2	JAN 30 2013
80% CONSTRUCTION DOCUMENTS	1	JAN 07 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05 2012

SEALS AND SIGNATURES



### DRAWING TITLE

## ELECTRICAL PLAN - AREA J

GRAPHIC SCALE  
TAKES PRECEDENCE  
FULL SIZE SCALE (24x36)

24708.003

PROJECT NUMBER

# M-E1.10

DRAWING NUMBER

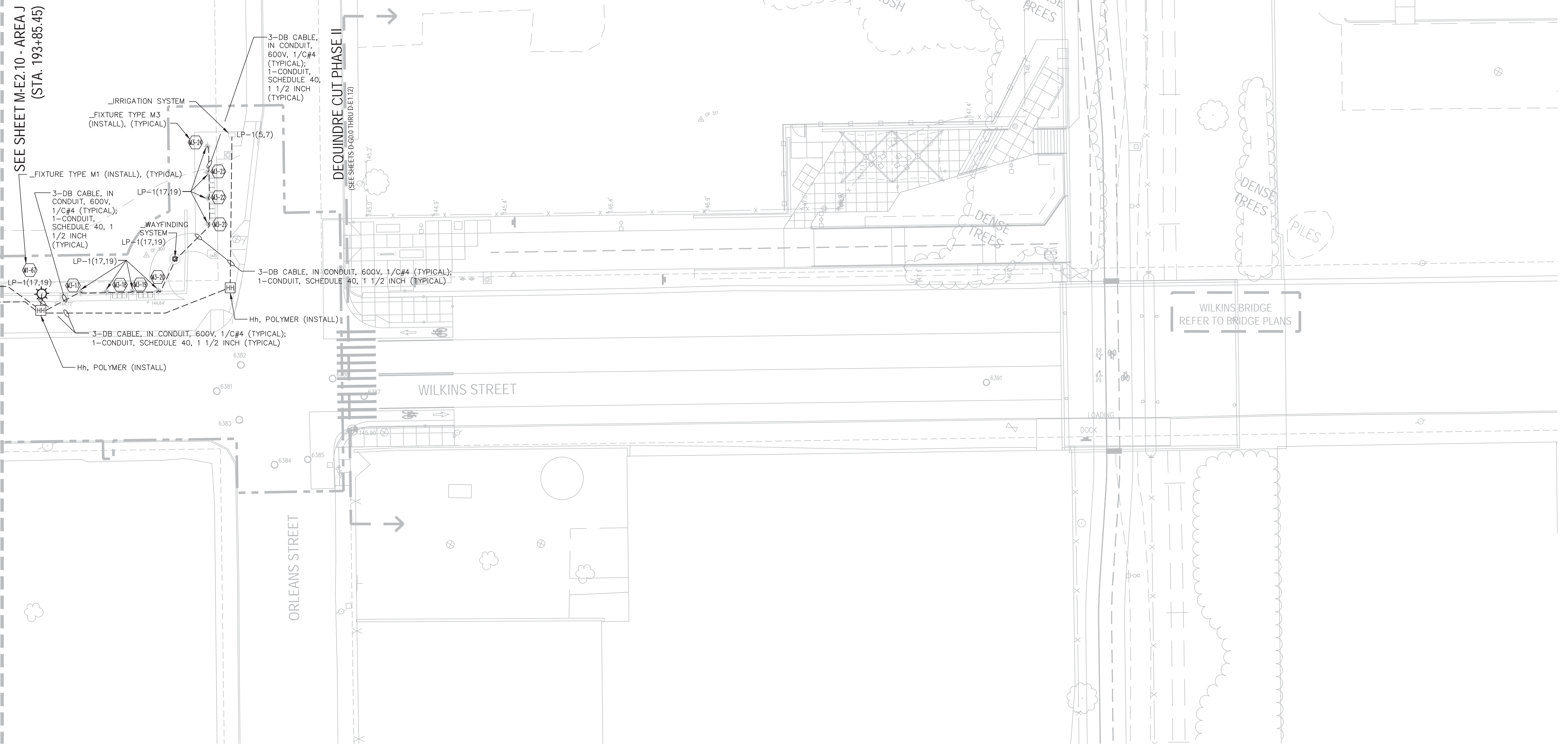
360 of 497

M-E1.10 - ELECTRICAL		
QTY	UNIT	ITEM DESCRIPTION
0	Ea	_Control Cabinet, Fdn, Rem, PLD
0	Ea	_Control Cabinet, Relocated
0	Ea	_Lighting Control Box and Foundation
0	Ea	_Transformer Pad, PLD
1	Ea	<b>Hh, Polymer</b>
0	Ea	_Hh, Polymer, PLD
0	Ea	_Hh, Round, PLD
2	Ea	<b>Hh, Round</b>
0	Ea	_Hh, Type S, PLD
0	Ea	_Street Light Relocate, PLD
0	Ea	_Pedestrian Light, Rem
0	Ea	Light Std Fdn, Rem
0	Ea	_Fdn, Rem, PLD
11	Ea	<b>Fixture Type M1</b>
0	Ea	_Fixture Type M2, PLD
0	Ea	_Fixture Type M2, Relocate, PLD
0	Ea	_Fixture Type M3
0	Ft	_DB Cable, in Conduit, 600V, 3-1/C#1 & 1-1/C#6
0	Ea	_Elec, Serv, Tap
80	Ft	<b>Conduit, Encased, 1, 2 inch</b>
0	Ft	_Conduit, Encased, EB 20, 3 inch, PLD
520	Ft	<b>Conduit, Schedule 40, 1 1/2 inch</b>
0	Ft	Conduit, Schedule 40, 2 inch
80	Ft	<b>Conduit, Schedule 80 PVC, 2 inch</b>
0	Ft	_Conduit, Schedule 80 PVC, 2 inch, PLD
0	Ft	_Conduit, Schedule 80 PVC, 3 inch, PLD
0	Ft	_DB Cable, in Conduit, 600V, 1/C#2, PLD
2120	Ft	<b>DB Cable, in Conduit, 600V, 1/C#4</b>
0	Ft	_DB Cable, in Conduit, 600V, 1/C#6, PLD
0	Ft	_DB Cable, in Conduit, 600V, 1/C#20, PLD

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# Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



Midtown Detroit, Inc.

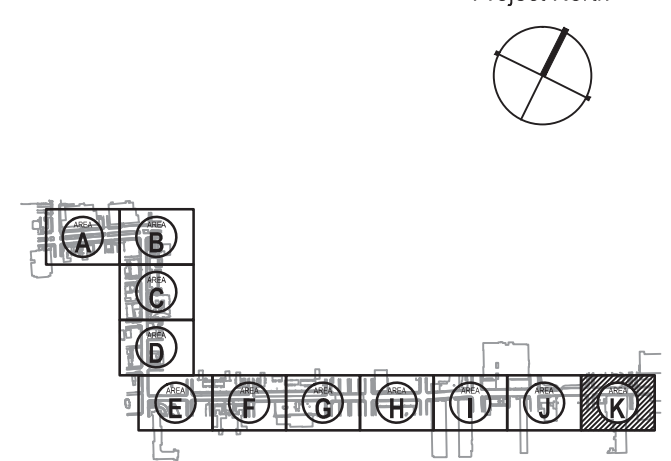
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ANN ARBOR, MI 48104  
734.662.4457  
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50% CONSTRUCTION DOCUMENTS	0	NOV 05 2012

SEALS AND SIGNATURES

KEY PLAN



DRAWING TITLE  
**ELECTRICAL PLAN - AREA K**

GRAPHIC SCALE  
TAKES PRECEDENCE  
FULL SIZE SCALE (24x36)

24708.003

PROJECT NUMBER

**M-E1.11**

DRAWING NUMBER

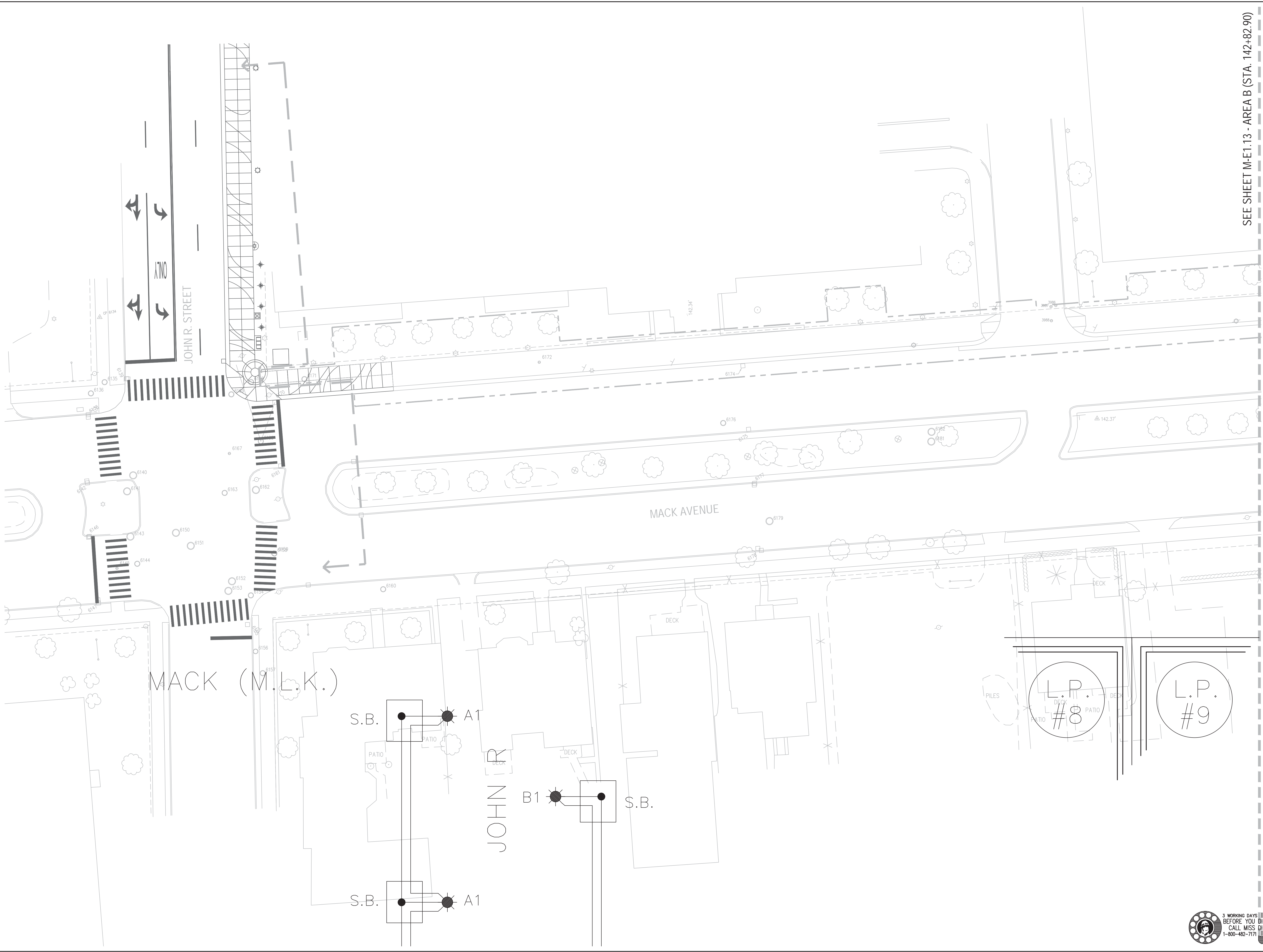
361 of 497

### M-E1.11 - ELECTRICAL

QTY	UNIT	ITEM DESCRIPTION
0	Ea	_Control Cabinet, Fdn, Rem, PLD
0	Ea	_Control Cabinet, Relocated
0	Ea	_Lighting Control Box and Foundation
0	Ea	_Transformer Pad, PLD
2	Ea	_Hh, Polymer
0	Ea	_Hh, Polymer, PLD
0	Ea	_Hh, Round, PLD
0	Ea	Hh, Round
0	Ea	_Hh, Type S, PLD
0	Ea	_Street Light, Relocate, PLD
0	Ea	_Pedestrian Light, Rem
0	Ea	Light Std Fdn, Rem
0	Ea	_Fdn, Rem, PLD
1	Ea	_Fixture Type M1
0	Ea	_Fixture Type M2, PLD
0	Ea	_Fixture Type M2, Relocate, PLD
8	Ea	_Fixture Type M3
0	Ft	_DB Cable, in Conduit, 600V, 3-1/C#1 & 1-1/C#6
0	Ea	_Elec, Serv, Tap
0	Ft	_Conduit, Encased, 1, 2 inch
0	Ft	_Conduit, Encased, EB 20, 3 inch, PLD
420	Ft	Conduit, Schedule 40, 1 1/2 inch
0	Ft	Conduit, Schedule 40, 2 inch
0	Ft	Conduit, Schedule 80 PVC, 2 inch
0	Ft	_Conduit, Schedule 80 PVC, 2 inch, PLD
0	Ft	_Conduit, Schedule 80 PVC, 3 inch, PLD
0	Ft	_DB Cable, in Conduit, 600V, 1/C#2, PLD
1300	Ft	DB Cable, in Conduit, 600V, 1/C#4
0	Ft	_DB Cable, in Conduit, 600V, 1/C#6, PLD
0	Ft	_DB Cable, in Conduit, 600V, 1/C#2/0, PLD



FILE: P:\24708\003\Phase-IV\CAD\Sheet\24708-004-WRE-SHT.dwg USER: jyoung DATE: May, 21 2013 TIME: 05:42 pm



SEE SHEET M-E1.13 - AREA B (STA. 142+82.90)

# Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



Midtown Detroit, Inc.

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80% CONSTRUCTION DOCUMENTS	1	JAN 07 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05 2012

SEALS AND SIGNATURES

KEY PLAN

Project North

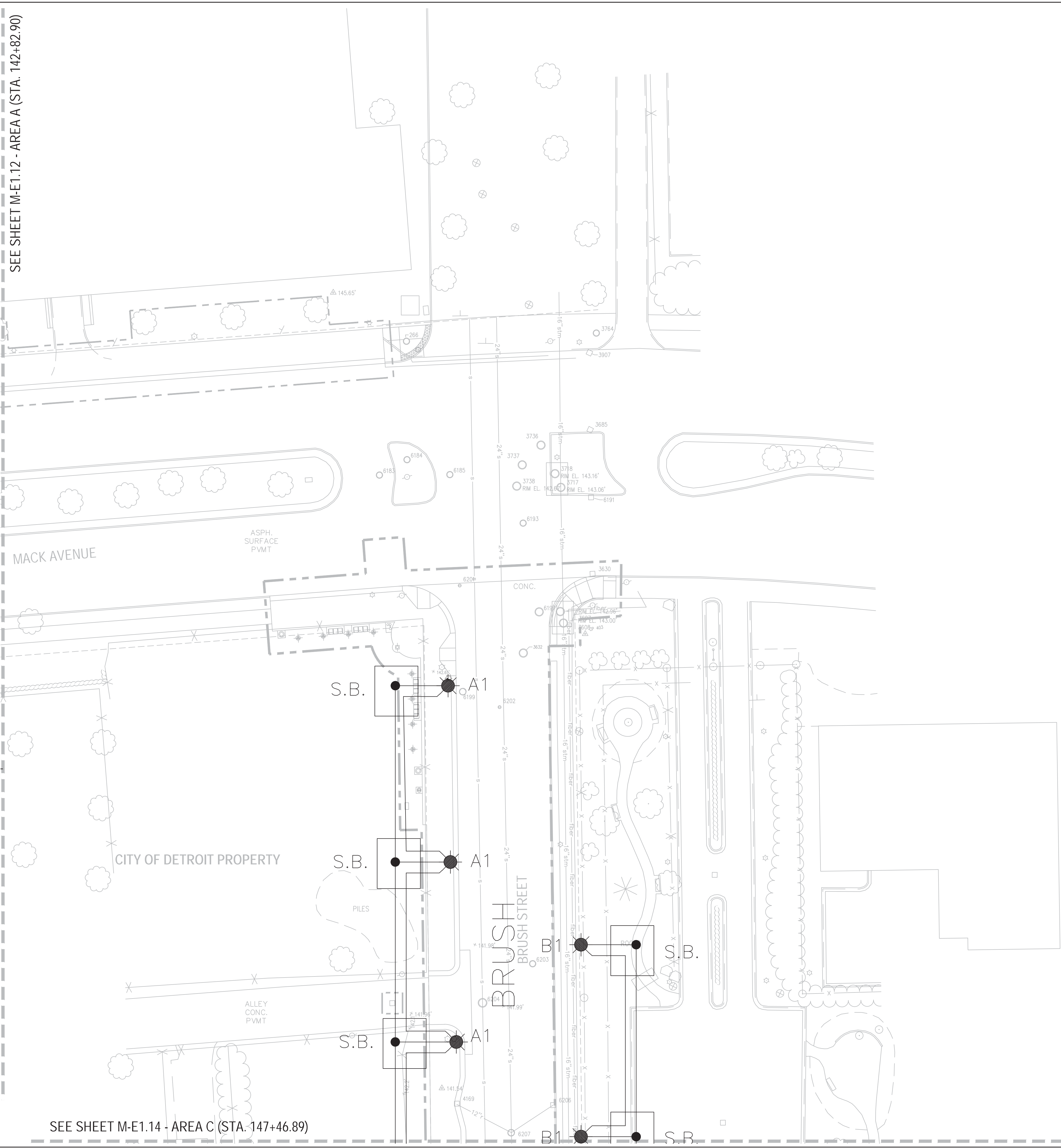
DRAWING TITLE  
**WIRING PLAN - AREA A**

GRAPHIC SCALE  
TAKES PRECEDENCE  
FULL SIZE SCALE (24x36) **24708.003**

PROJECT NUMBER  
**M-E1.12**  
DRAWING NUMBER **362 of 497**



SEE SHEET M-E1.12 - AREA A (STA. 142+82.90)



SEE SHEET M-E1.14 - AREA C (STA. 147+46.89)

FILE: P:\24708\003\Phase-IV\CAD\Sheet\24708-004-WRE-SHT.dwg USER: jyoung DATE: May, 21 2013 TIME: 05:42 pm

# Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



Midtown Detroit, Inc.

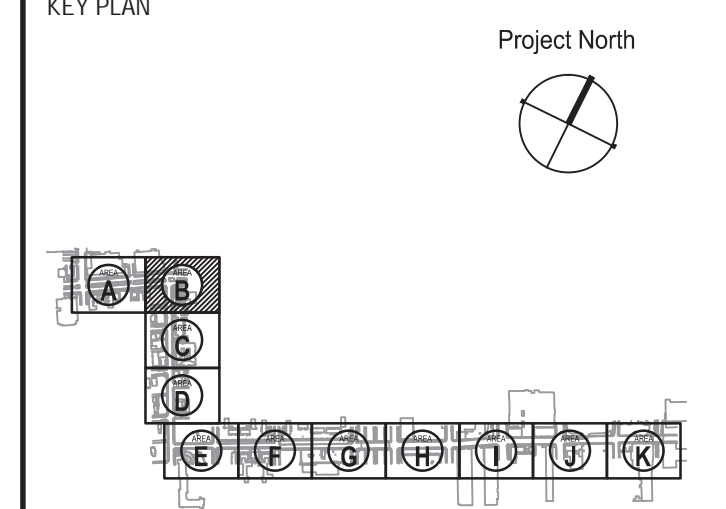
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80% CONSTRUCTION DOCUMENTS	1	JAN 07 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05 2012

SEALS AND SIGNATURES

KEY PLAN



DRAWING TITLE

WIRING PLAN - AREA B

GRAPHIC SCALE  
TAKES PRECEDENCE  
FULL SIZE SCALE (24x36)

24708.003

PROJECT NUMBER

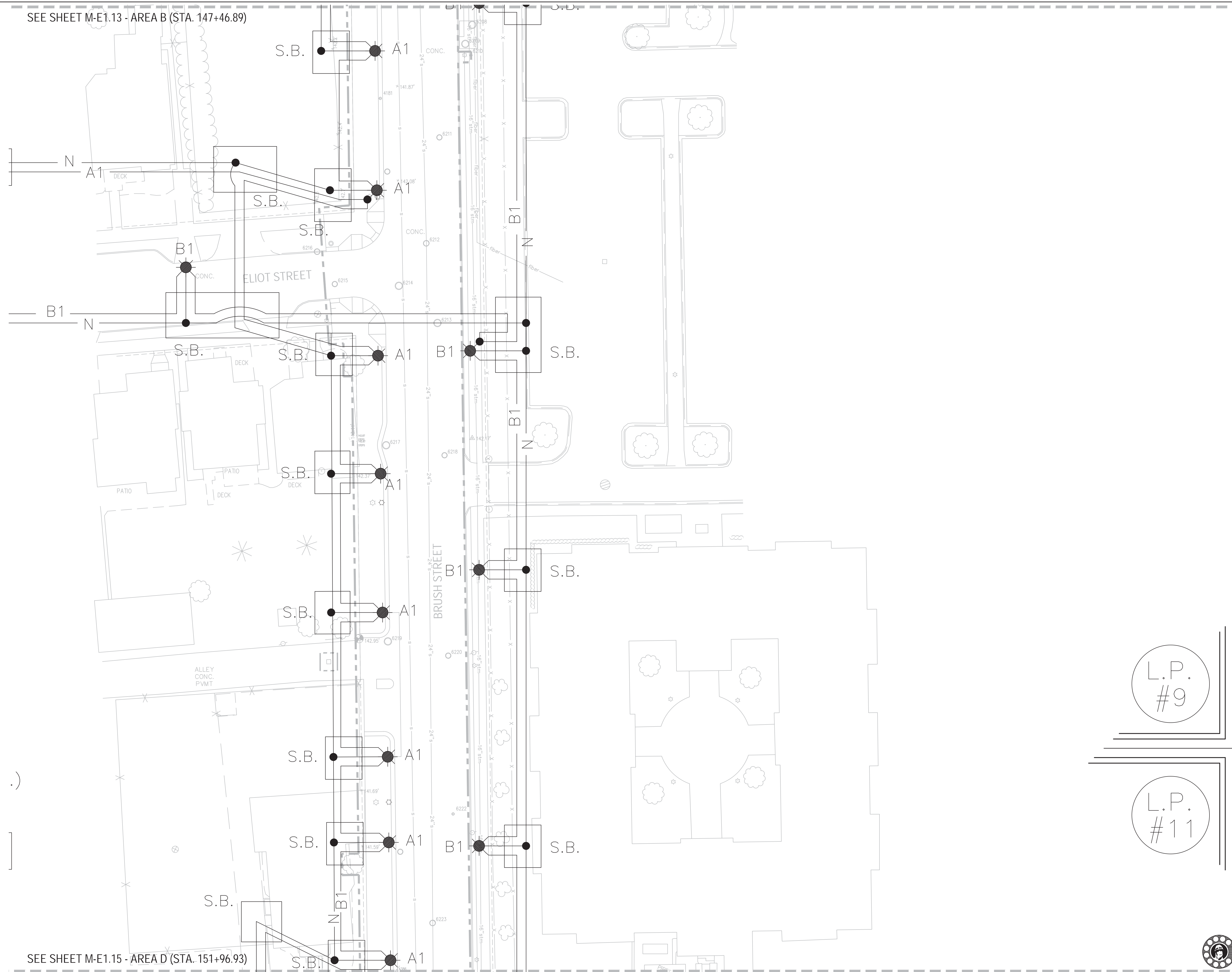
# M-E1.13

DRAWING NUMBER

363 of 497

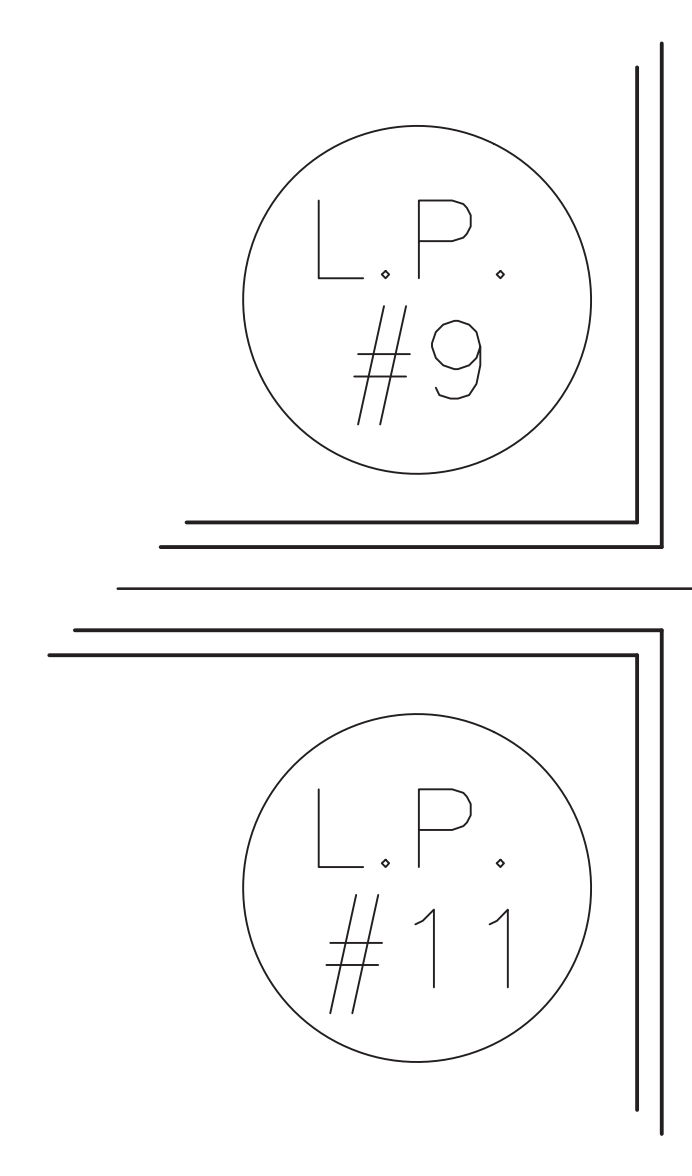


SEE SHEET M-E1.13 - AREA B (STA. 147+46.89)



SEE SHEET M-E1.15 - AREA D (STA. 151+96.93)

FILE: P:\24708\003\Phase-IV\CAD\Sheet\24708-004-WRE-SHT.dwg USER: jyoung DATE: May, 21 2013 TIME: 05:43 pm



# Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



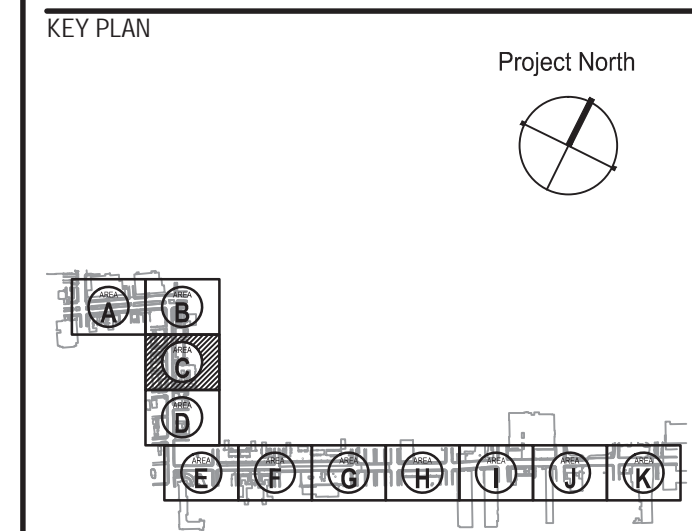
Midtown Detroit, Inc.

## SMITHGROUP JJR

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50% CONSTRUCTION DOCUMENTS	0	NOV 05 2012

SEALS AND SIGNATURES



DRAWING TITLE  
**WIRING PLAN - AREA C**

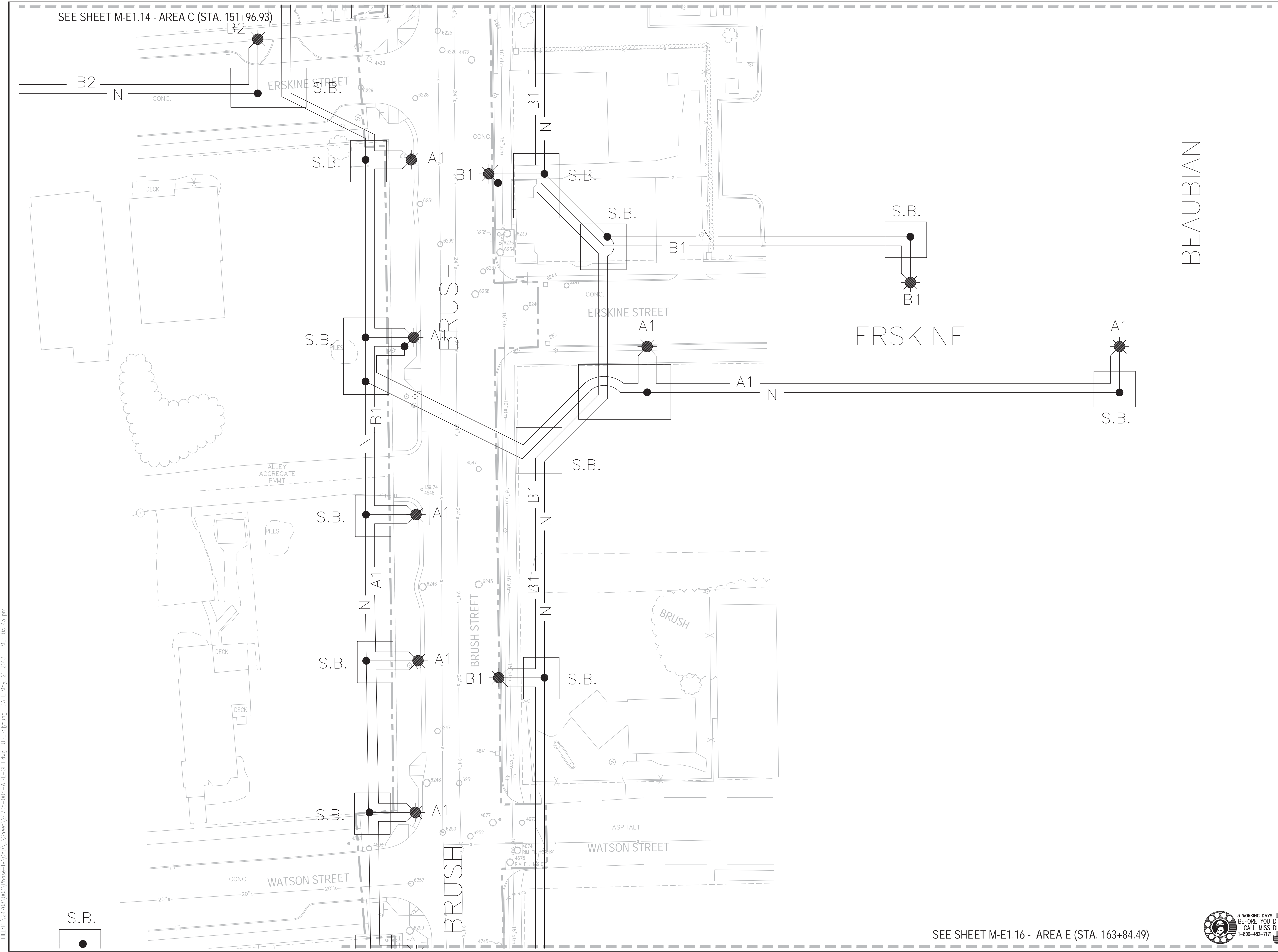
GRAPHIC SCALE  
TAKES PRECEDENCE  
FULL SIZE SCALE (24x36)

PROJECT NUMBER  
**24708.003**

DRAWING NUMBER  
**M-E1.14**



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SEE SHEET M-E1.14 - AREA C (STA. 151+96.93)

SEE SHEET M-E1.16 - AREA E (STA. 163+84.49)

# Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



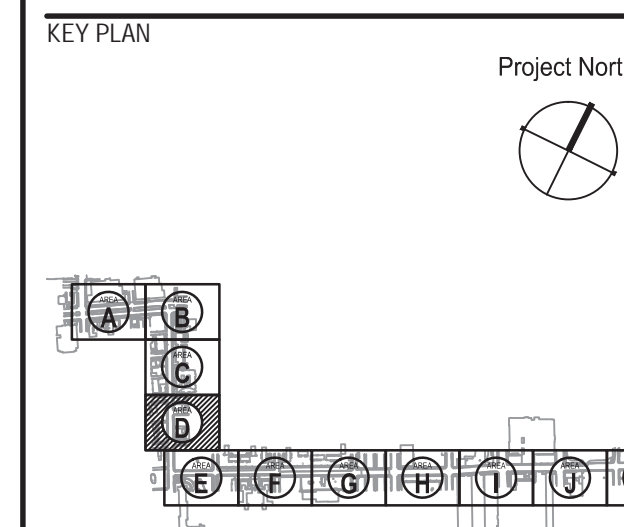
Midtown Detroit, Inc.

## SMITHGROUP JJR

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BIDDING DOCUMENTS	4	MAY 02 2013
100% CONSTRUCTION DOCUMENTS	3	APR 01 2013
GRADE INSPECTION	2	JAN 30 2013
80% CONSTRUCTION DOCUMENTS	1	JAN 07 2013
50% CONSTRUCTION DOCUMENTS	0	NOV 05 2012

SEALS AND SIGNATURES



DRAWING TITLE  
**WIRING PLAN - AREA D**

GRAPHIC SCALE  
TAKES PRECEDENCE  
FULL SIZE SCALE (24x36)

24708.003

PROJECT NUMBER

**M-E1.15**

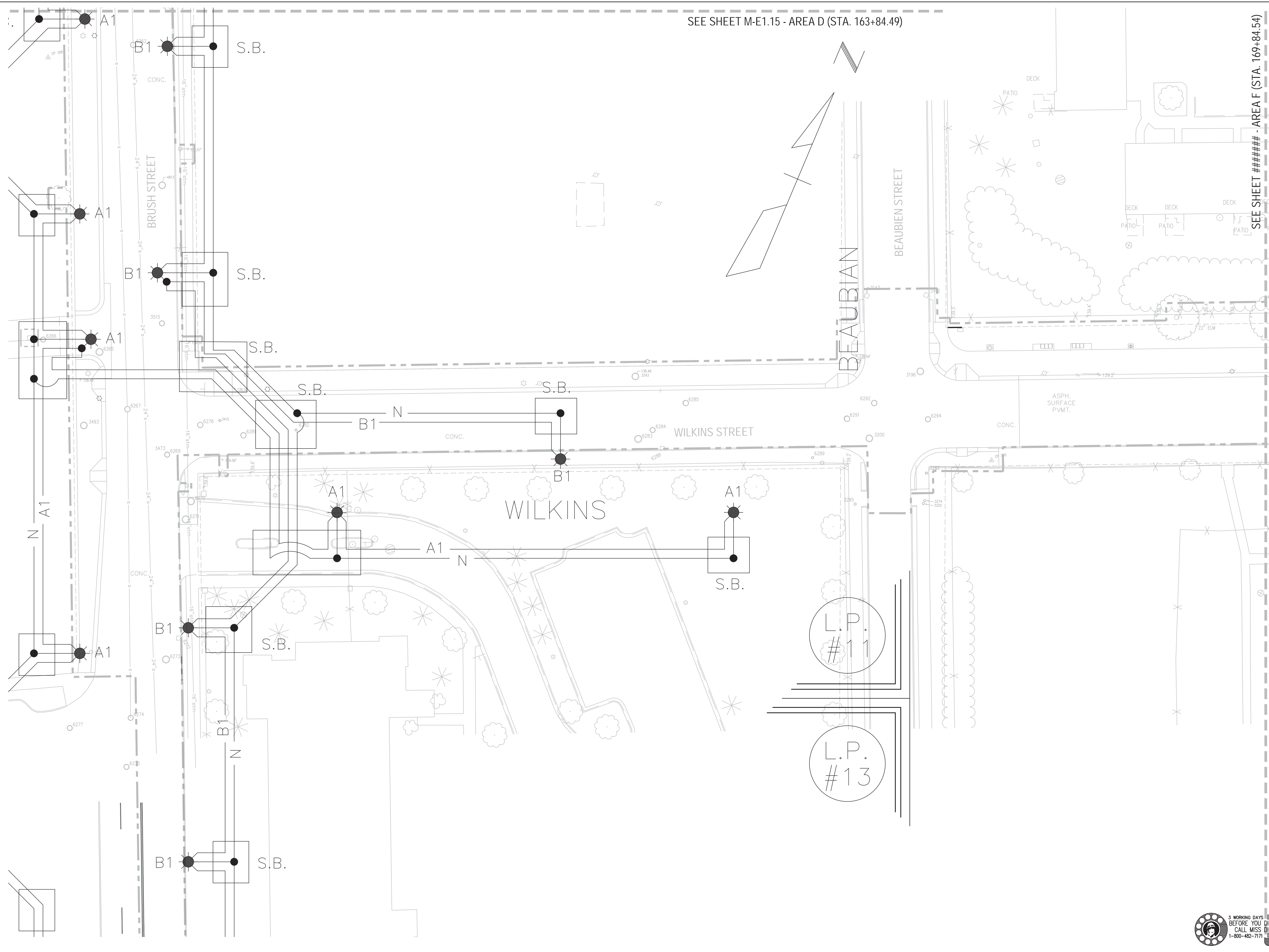
DRAWING NUMBER

365 of 497



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SEE SHEET M-E1.15 - AREA D (STA. 163+84.49)

SEE SHEET ##### - AREA F (STA. 169+84.54)

# Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



Midtown Detroit, Inc.

## SMITHGROUP JJR

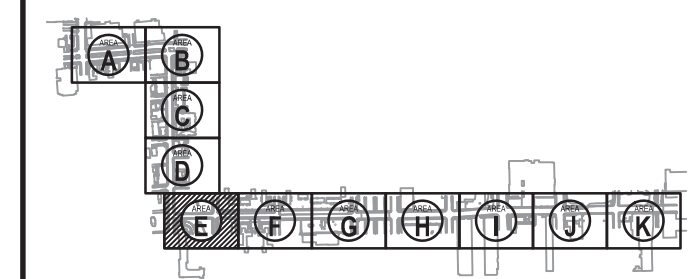
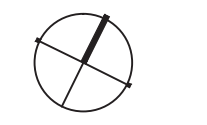
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SEALS AND SIGNATURES

KEY PLAN

Project North



DRAWING TITLE

WIRING PLAN - AREA E

GRAPHIC SCALE  
TAKES PRECEDENCE  
FULL SIZE SCALE (24x36)

24708.003

PROJECT NUMBER

# M-E1.16

DRAWING NUMBER

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# Midtown Loop Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



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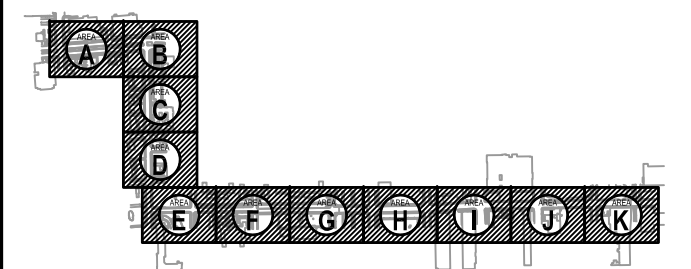
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50% CONSTRUCTION DOCUMENTS	0	NOV.05.2012

SEALS AND SIGNATURES

KEY PLAN

Project North



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**ELECTRICAL DETAILS 1**

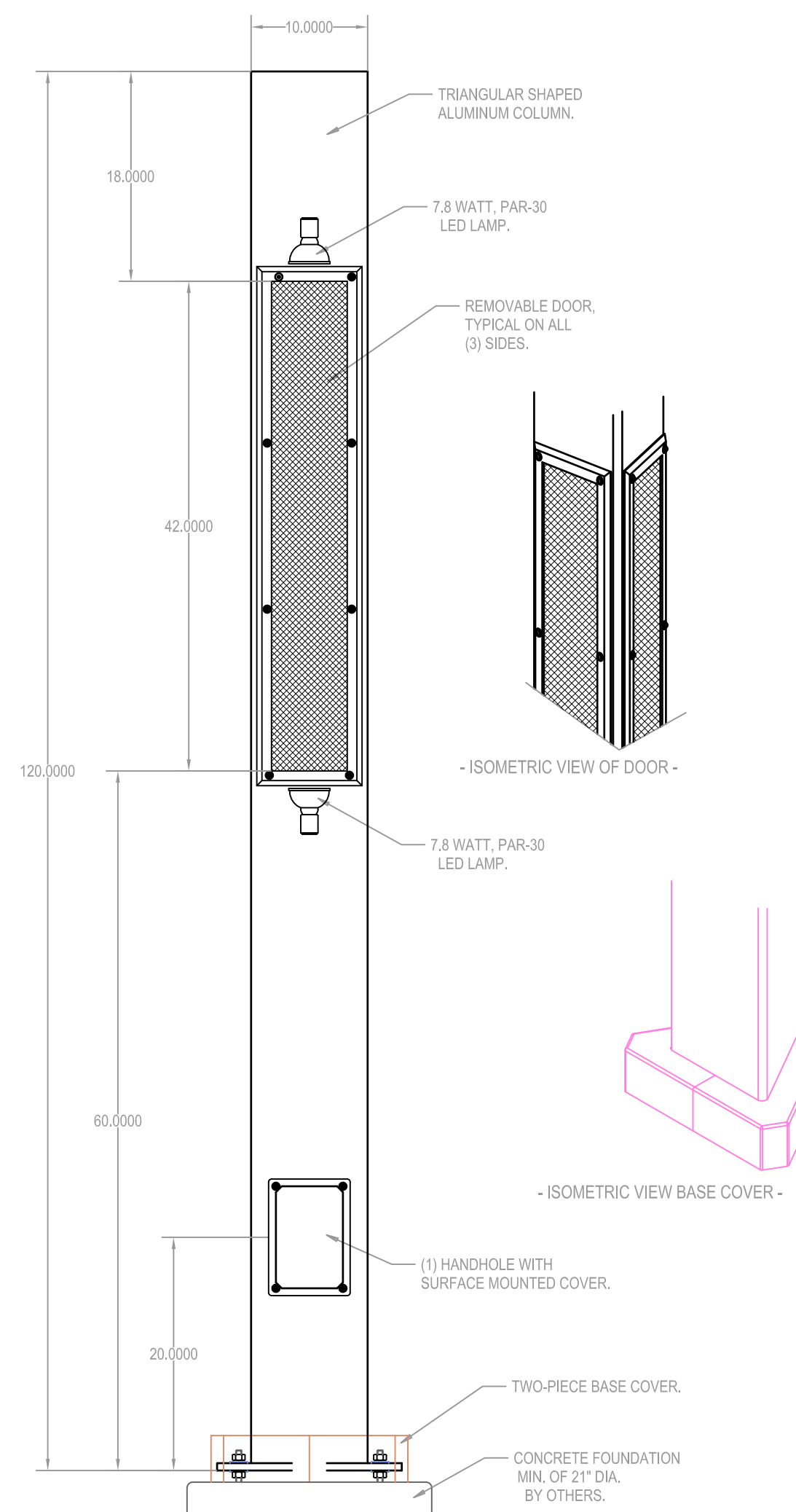
GRAPHIC SCALE TAKES PRECEDENCE FULL SIZE SCALE (24x36) **24708.003**

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DRAWING NUMBER

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**SPECIFICATIONS**

COLUMN: TRIANGULAR IN SHAPE AND FABRICATED FROM ALUMMINUM. ALL WELDS GROUND SMOOTH.

DOOR ASSEMBLY: GREEN (#2111) ACRYLIC WITH A BEAD BLASTED FINISH ON THE INSIDE WITH A .040" THICK PERFORATED METAL PANEL WITH .25" DIA HOLES ON .375" STAGGERED CENTERS ON THE OUTSIDE. THE (3) DOOR ASSEMBLIES ARE GASKETED AND ARE REMOVABLE FOR SERVICING LAMPS.

LAMPS: (2) 7.8 WATT, PAR-30 LED LAMPS. LAMPS WILL BE PROVIDED.

LAMP HOLDERS: (2) MEDIUM BASE PORCELAIN.

HANDHOLE: (1) HANDHOLE OPENING WITH COVER.

208 VOLT - 120 VOLT SEE WIRING DIAGRAM "X" BELOW. PLEASE CONFIRM THAT THIS IS CORRECT.

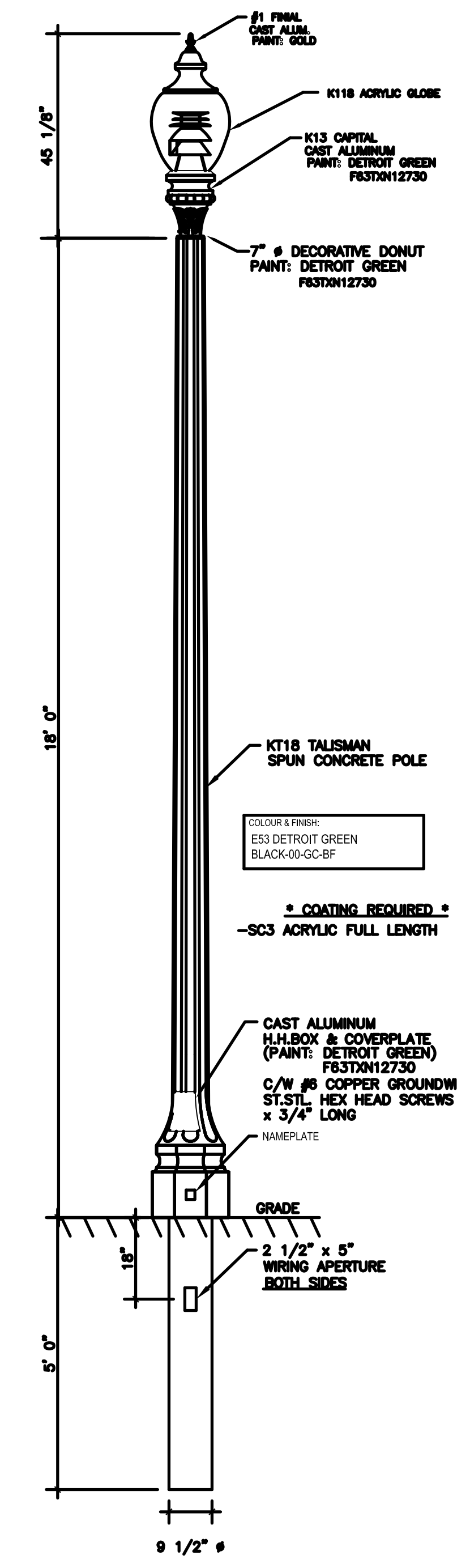
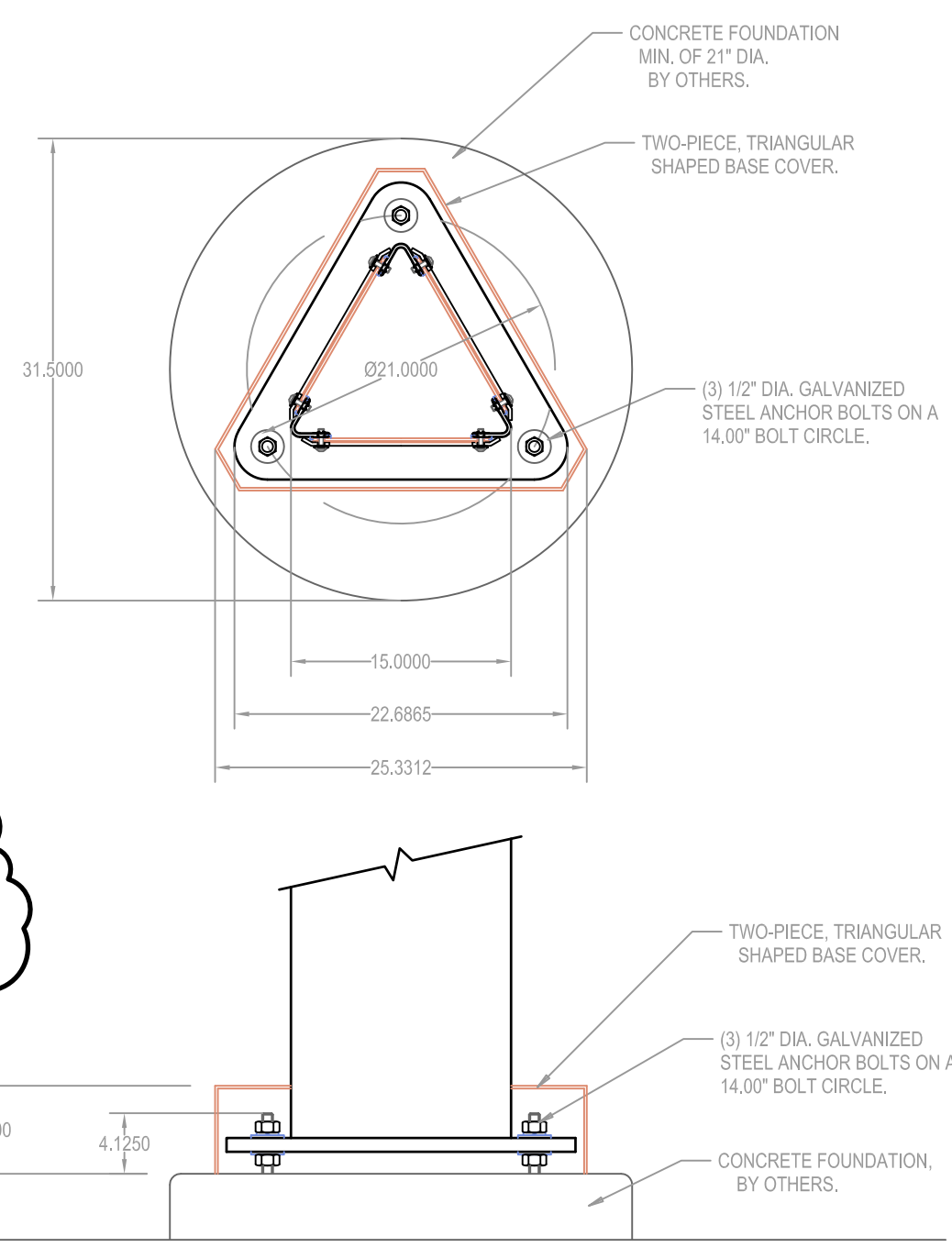
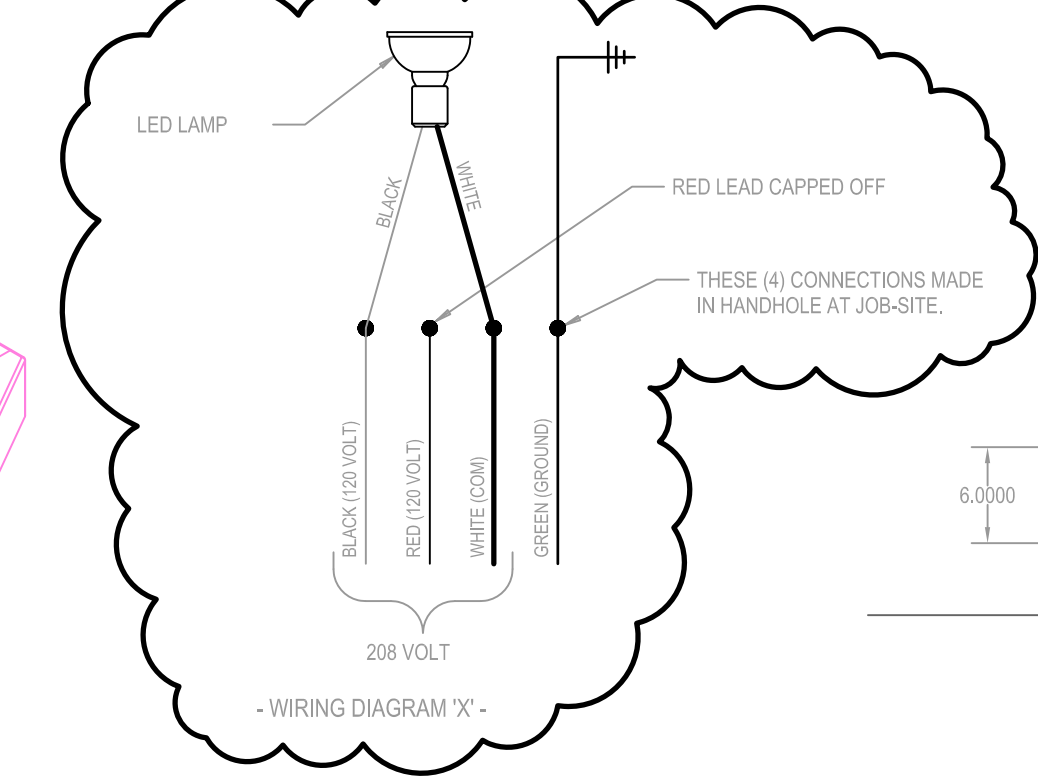
BASE PLATE: .300" THICK ALUMINUM BASE PLATE.

ANCHOR BOLTS: (3) 1/2" GALVANIZED STEEL ANCHOR BOLTS ON A 14.00" BOLT CIRCLE.

BASE COVER: TWO-PIECE, TRIANGULAR IN SHAPE AND MADE FROM ALUMINUM.

UNIT IS LISTED FOR "WET LOCATIONS".

ENTIRE UNIT TO RECEIVE A DUPONT SPARKLE II POWDER COAT PAINTED FINISH (PPFA-611-M7).



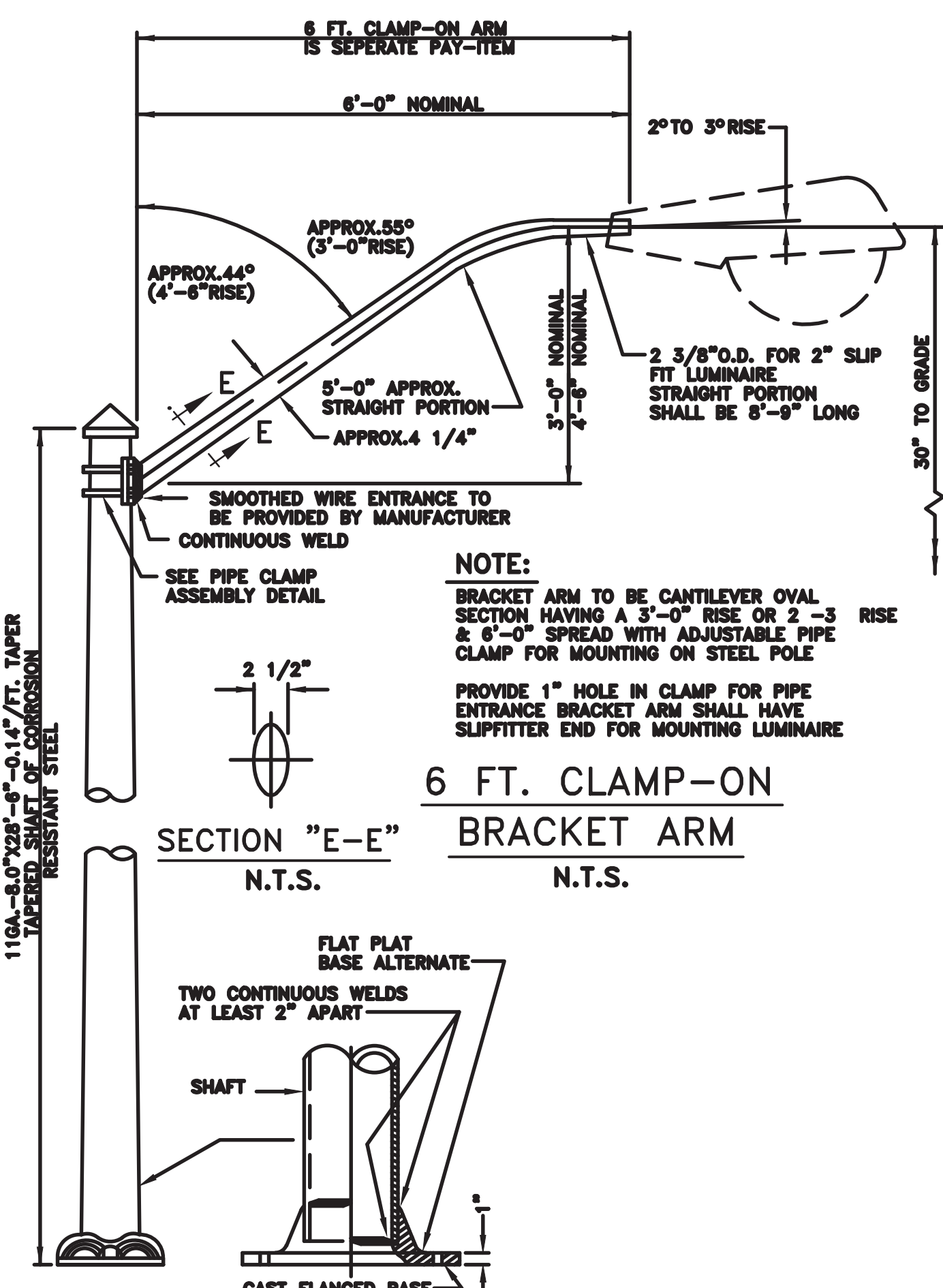
① **\_FIXTURE TYPE M3**  
NOT TO SCALE

② **\_FIXTURE TYPE M2, PLD**  
NOT TO SCALE



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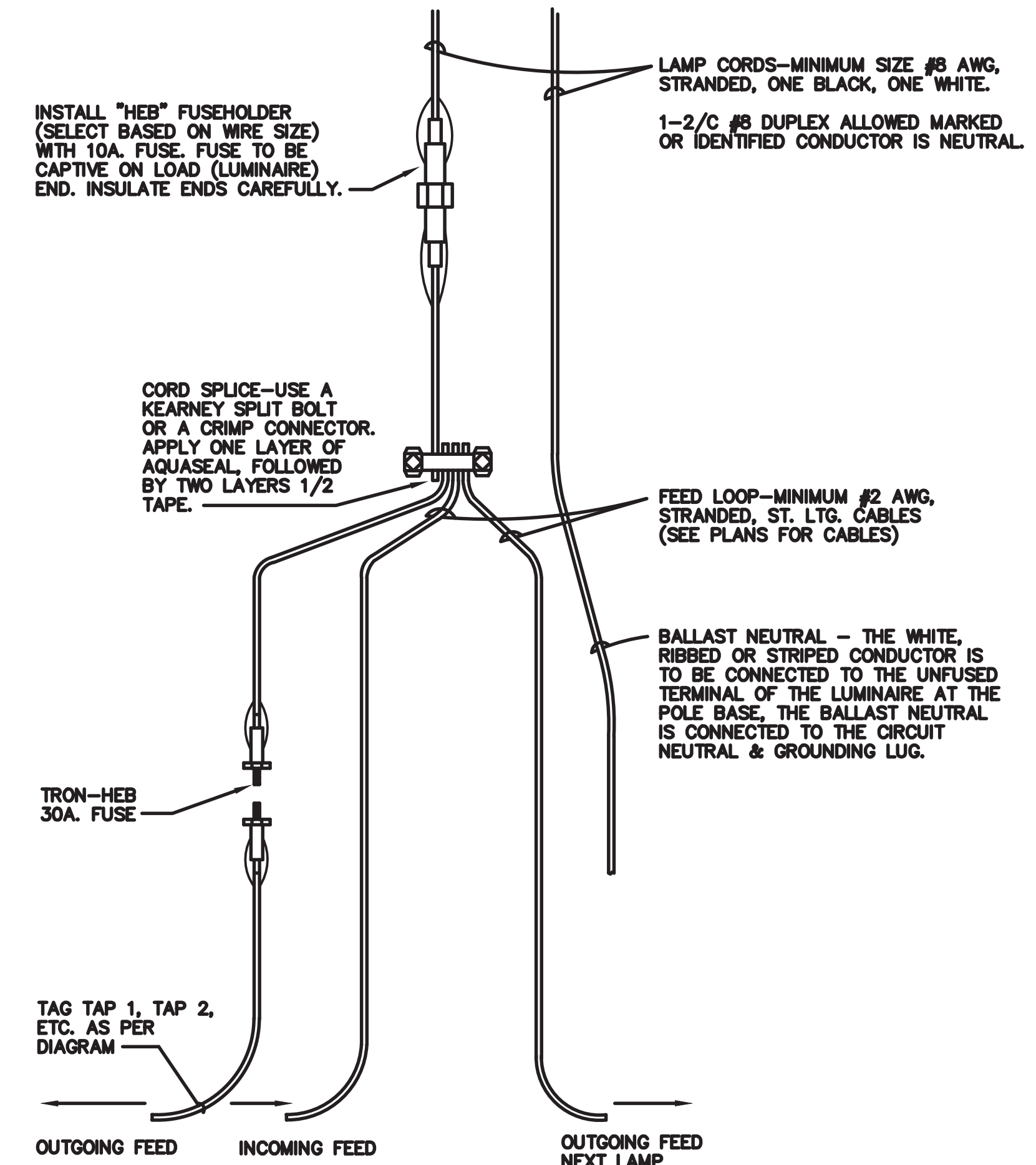




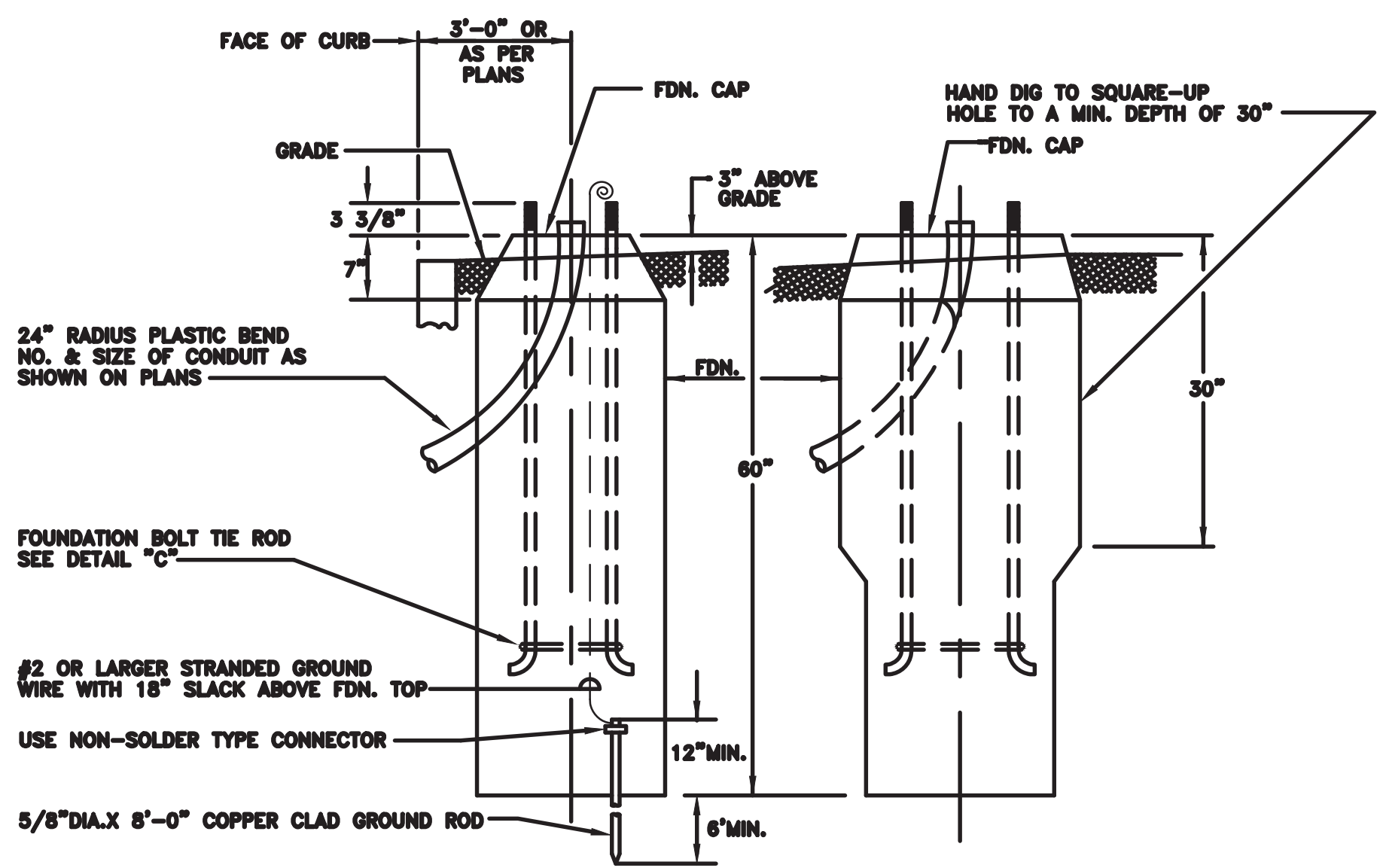
**NOTE:**  
BRACKET ARM TO BE CANTILEVER OVAL SECTION HAVING A 3'-0" RISE OR 2-3 & 6'-0" SPREAD WITH ADJUSTABLE PIPE CLAMP FOR MOUNTING ON STEEL POLE  
PROVIDE 1" HOLE IN CLAMP FOR PIPE ENTRANCE BRACKET ARM SHALL HAVE SLIPFITTER END FOR MOUNTING LUMINAIRE

**6 FT. CLAMP-ON BRACKET ARM**  
N.T.S.

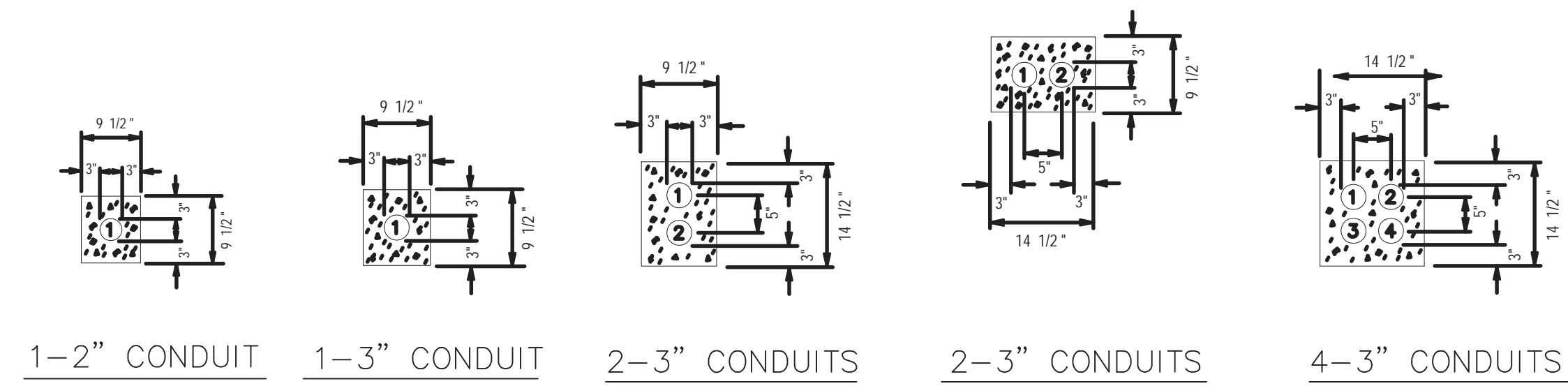
**CODE 009-00**  
**STREET LIGHTING STANDARD**  
N.T.S.



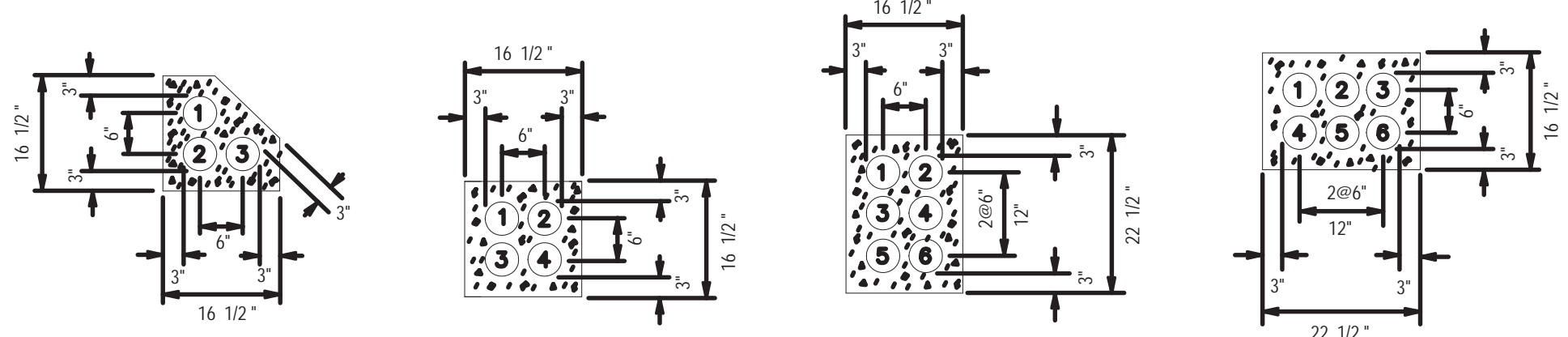
**MULTIPLE STREET LIGHTING CONNECTION IN POLE BASE**  
N.T.S.



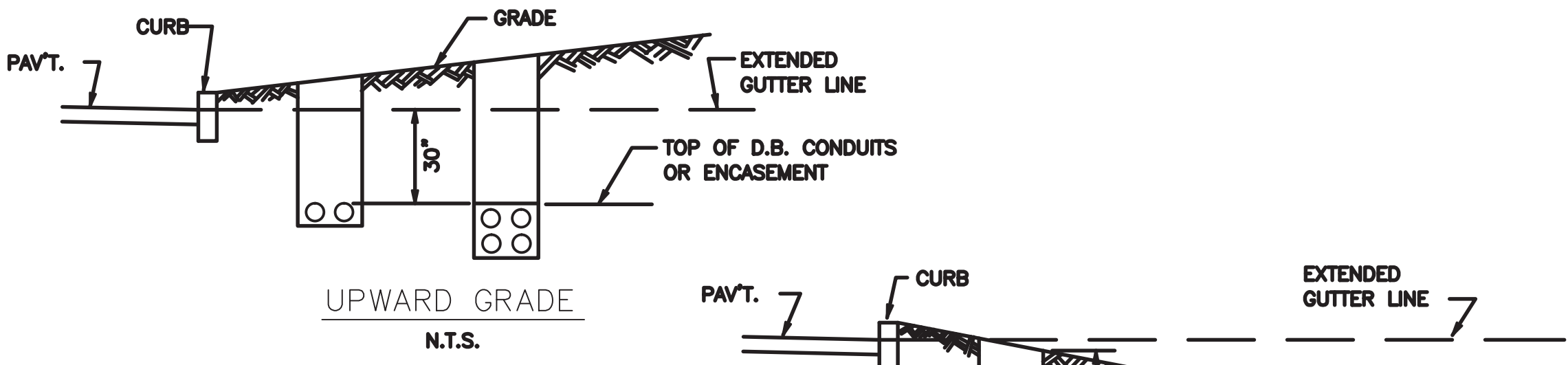
**SECTION A-A**  
N.T.S.  
**SECTION B-B**  
N.T.S.  
**ANCHOR BASE STD. FOUNDATION**



**ALTERNATE ARRANGEMENT**

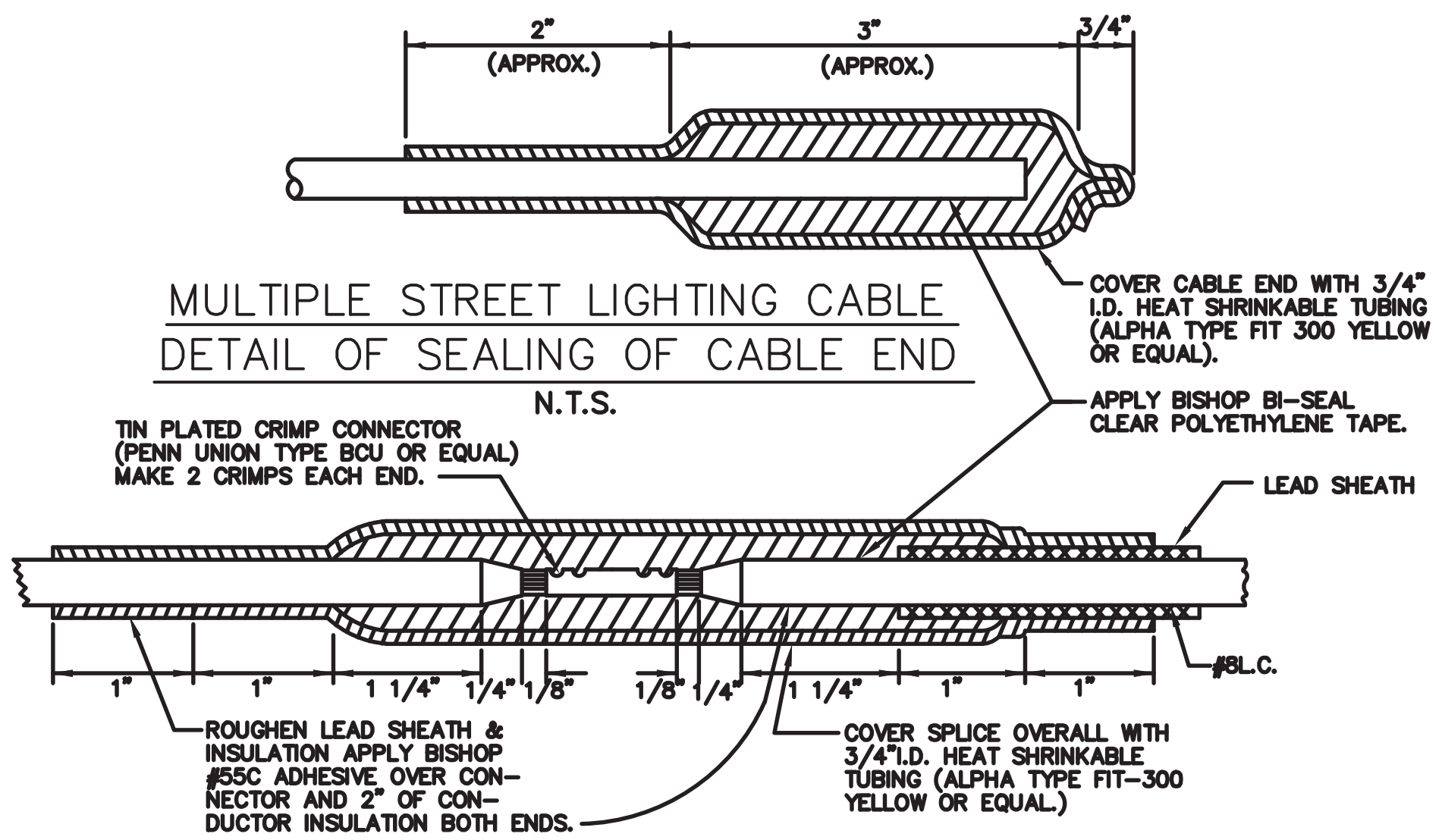


**ALTERNATE ARRANGEMENT**



**UPWARD GRADE**  
N.T.S.

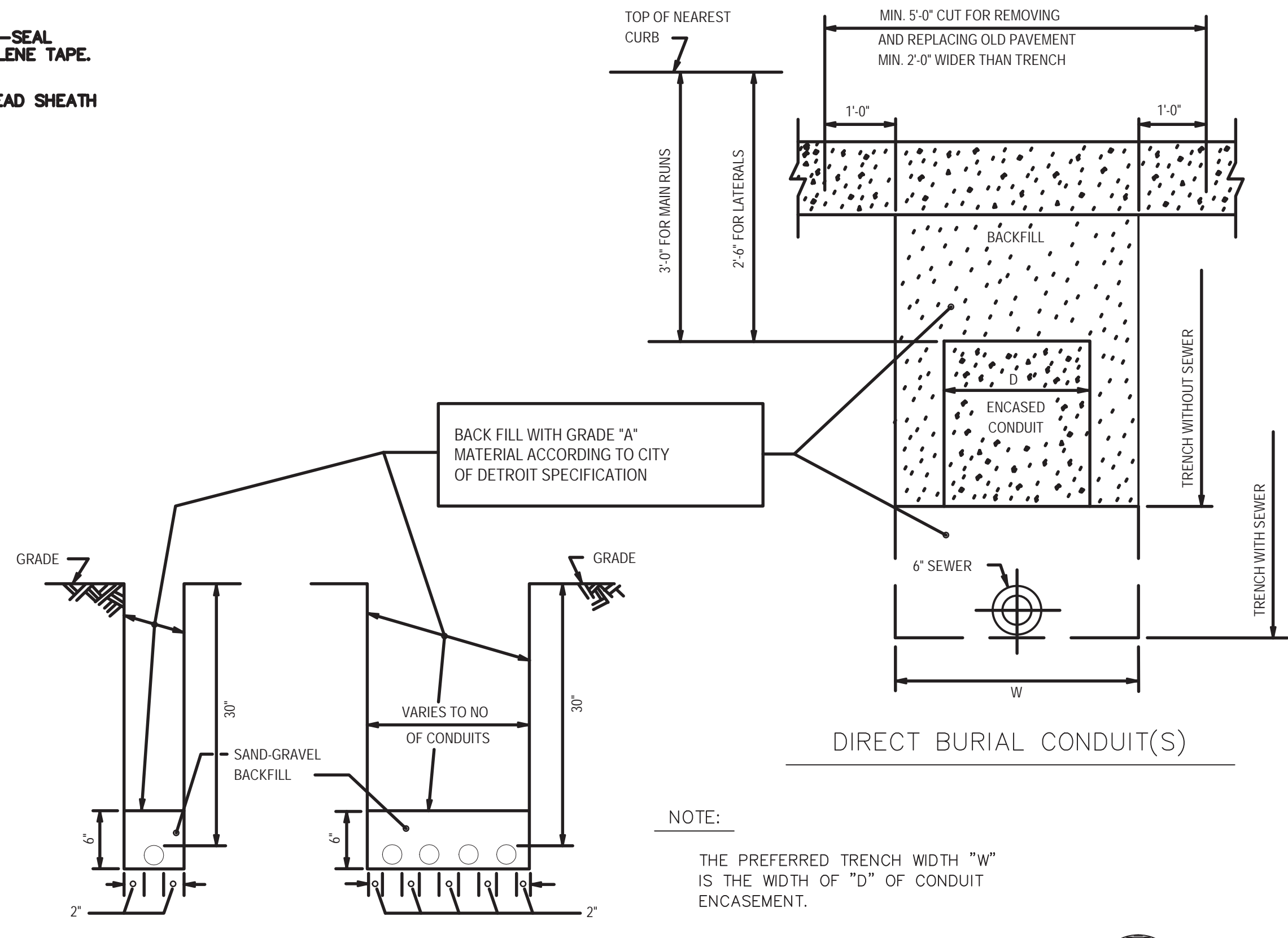
**DOWNWARD GRADE**  
N.T.S.



**MULTIPLE STREET LIGHTING CABLE DETAIL OF SEALING OF CABLE END**  
N.T.S.



**MULTIPLE STREET LIGHTING SPLICE DETAIL A**  
#8 L.C. TO #2 ST. LGT.  
N.T.S.



**DIRECT BURIAL CONDUIT(S)**

**Midtown Loop Phase IV**

Midtown Loop  
Detroit, Michigan



Owners:



City of Detroit



Midtown Detroit, Inc.

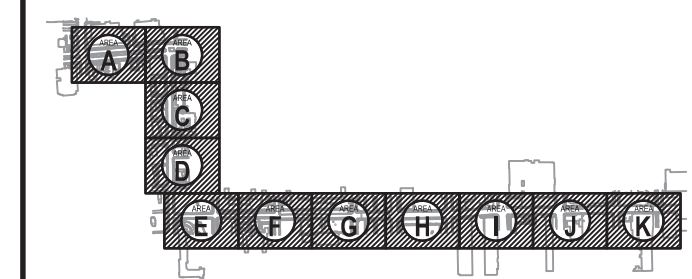
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SEALS AND SIGNATURES

KEY PLAN



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**ELECTRICAL DETAILS 2**

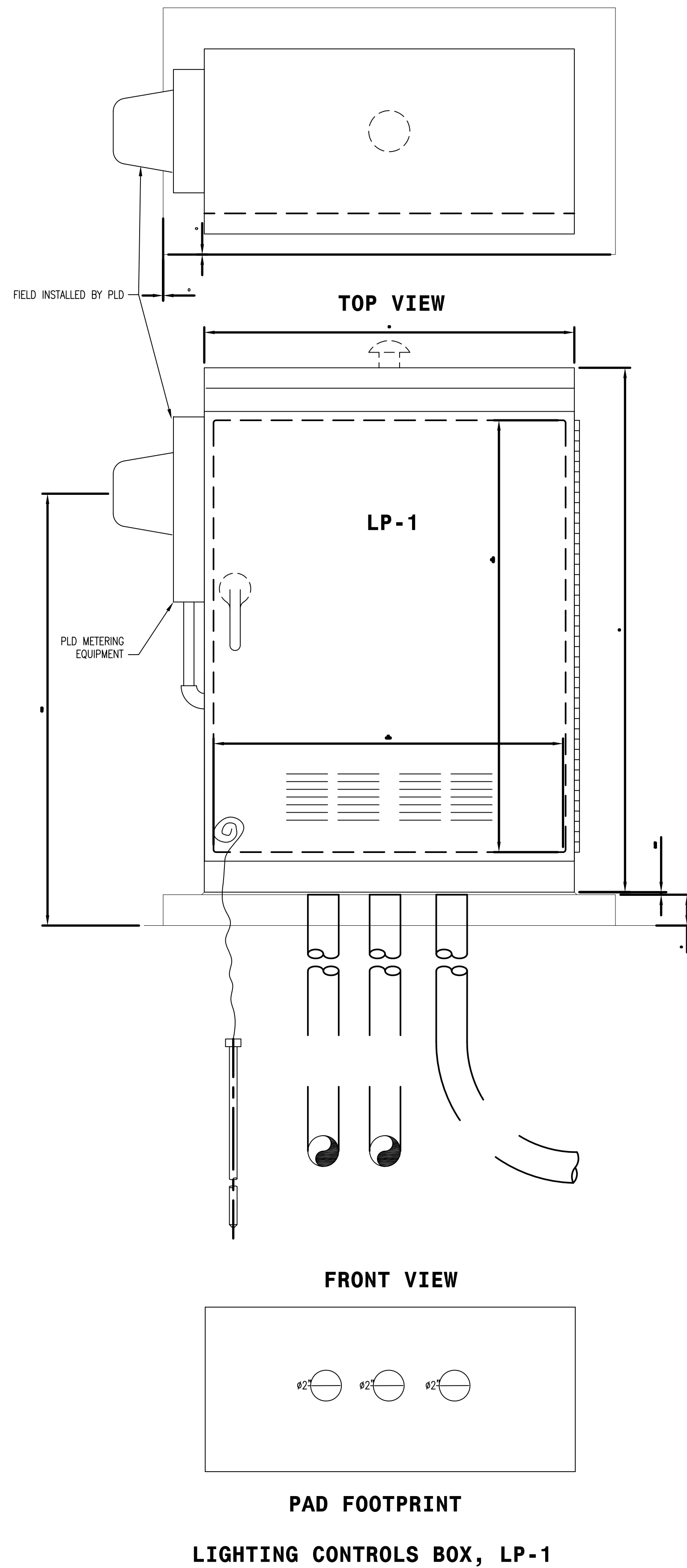
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PROJECT NUMBER  
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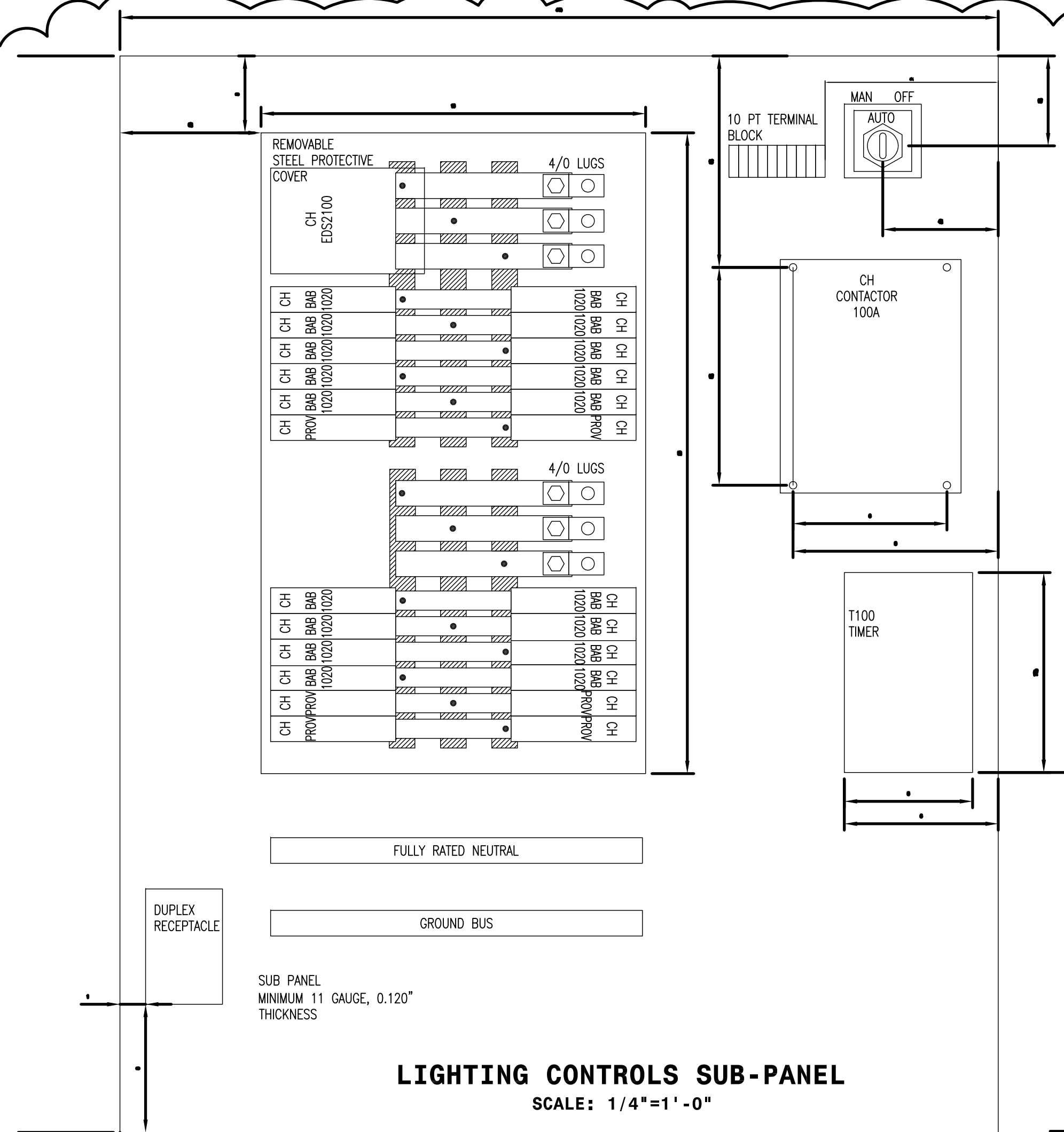
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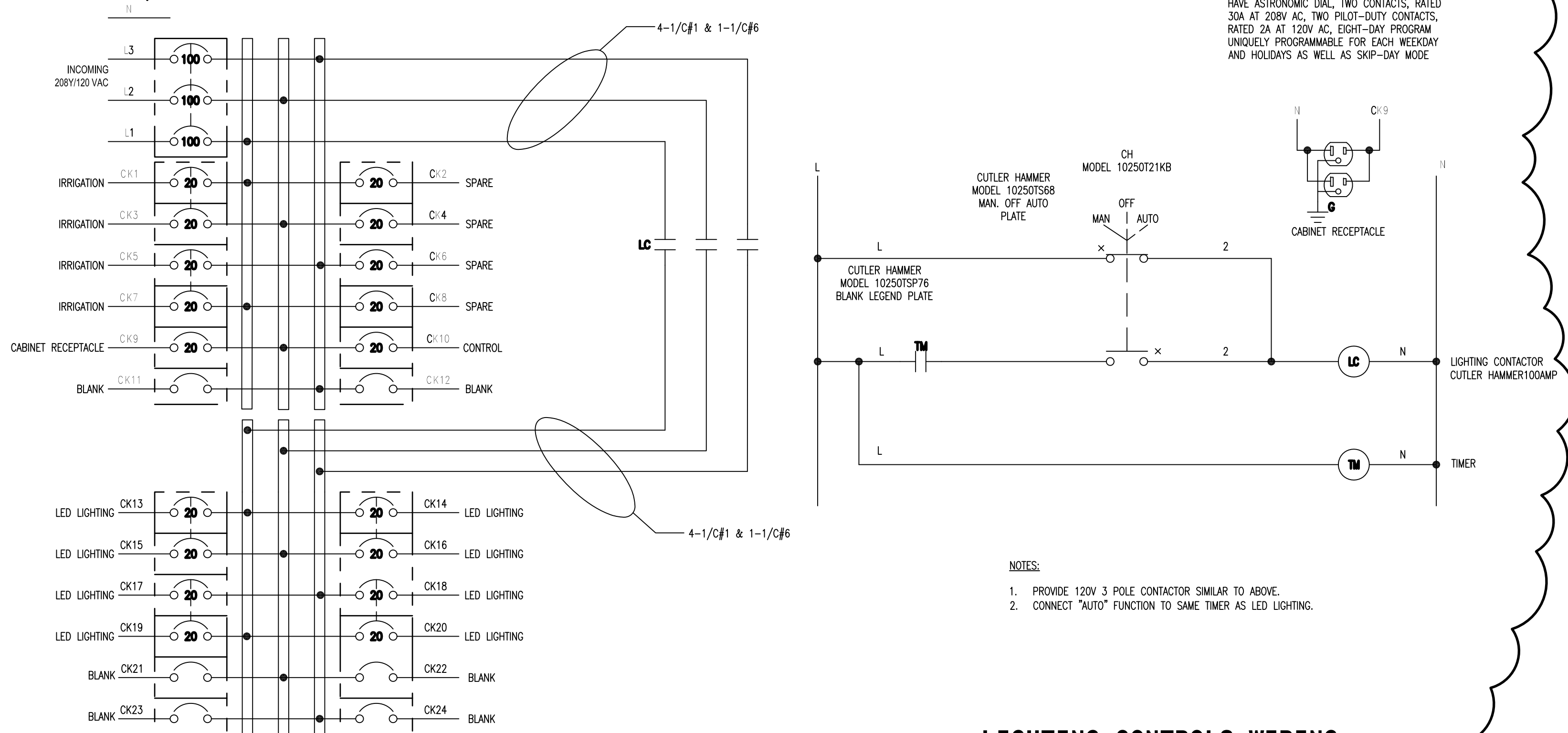
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LIGHTING CONTROLS BOX, LP-1



LIGHTING CONTROLS SUB-PANEL  
SCALE: 1/4"=1'-0"



LIGHTING CONTROLS WIRING DIAGRAM (LP-1)

LIGHTING CONTROLS WIRING SCHEMATIC

- NOTES:
- ENCLOSURE**
1. COMPLETELY FABRICATED FROM .125"-THICK TYPE 5052-H32 ANTI-CORRODED, MILL-FINISHED ALUMINUM UTILIZING INTERMITTENTLY WELDED CONSTRUCTION, SUBSEQUENTLY WEATHERPROOFED WITH SILICONE SEALANT.
  2. THERMOCONNECTION AIR VENTILATION SYSTEM UTILIZED WITH PROVISIONS FOR MOUNTING FAN FOR FORCED-AIR COOLING EXHAUST OUTLET OPENINGS ARE PROVIDED UNDER THE ROOF OVERHANG.
  3. ALL INTERNAL AND EXTERNAL HARDWARE UTILIZES NON-CORROSIVE MATERIAL.
  4. ADJUSTABLE 3/8"-DIAMETER STAINLESS STEEL DOOR STOP CAN BE LATCHED IN VARIOUS POSITIONS.
  5. COLOR FOR CABINET IS RAL6008 "DETROIT GREEN"
- DOOR**
1. PROVIDED WITH THREE-POINT LOCKING MECHANISM
  2. 3/4"-DIAMETER STAINLESS STEEL INWARD-TURNING HANDLE WITH PROVISIONS FOR PADLOCKING
  3. THE DOOR SHALL BE FITTED WITH A CORBIN #15481ARS PIN TUMBLER LOCKED KEYED FOR CORBIN #1R6380 KEY
  4. LOUVERED INLET WITH FILTER TO PREVENT DIRT FROM ENTERING WITH AIR FLOW
  5. CLOSED-CELL NEOPRENE DOOR SEAL GASKET USED.
  6. HEAVY GAUGE ALUMINUM CONTINUOUS HINGE UTILIZING A NON-REMOVABLE 3/16" DIAMETER STAINLESS STEEL HINGE PIN FOR DOOR SUPPORT, CARRIAGE BOLTED IN PLACE, FOR EASE OF DOOR REMOVAL.
- PANELBOARD**
1. SERVICE RATING IS 208/120, THREE PHASE, 4 WIRE 100KA MAXIMUM SERIES RATED INTERRUPTING CAPACITY (SYMMETRICAL @208VAC)
  2. MAIN BUS BARS SHALL BE COPPER SIZED IN ACCORDANCE WITH UL STANDARDS TO LIMIT TEMPERATURE RISE ON ANY CURRENT CARRYING PART TO A MAXIMUM OF 55 DEGREES C ABOVE AN AMBIENT OF 40 DEGREES C MAXIMUM (100A)
  3. AN ISOLATED GROUND BUS SHALL BE INCLUDED IN PANEL
  4. A 100% FULLY RATED INSULATED NEUTRAL BUS BAR SHALL BE INCLUDED IN PANEL
  5. ALL CONTROL CABLE SHALL BE TYPE SIS SWITCHBOARD WIRE RATED 300 VOLTS, 90C, 14AWG, 7 STRAND
  6. POWER CABLES CONNECTED TO LIGHTING CONTACTOR SHALL BE TYPE RHW, 600 VOLTS, 90C, 1/0 AWG, 19 STRAND
  7. TIMER (TM) SHALL BE ELECTROMECHANICAL-DIAL TYPE COMPLYING WITH UL917. TIMER SHALL HAVE ASTRONOMIC DIAL, TWO CONTACTS, RATED 30A AT 208V AC, TWO PILOT-DUTY CONTACTS, RATED 2A AT 120V AC, EIGHT-DAY PROGRAM, UNIQUELY PROGRAMMABLE FOR EACH WEEKDAY AND HOLIDAYS AS WELL AS SKIP-DAY MODE

- NOTES:
1. PROVIDE 120V 3 POLE CONTACTOR SIMILAR TO ABOVE.
  2. CONNECT "AUTO" FUNCTION TO SAME TIMER AS LED LIGHTING.

Midtown Loop  
Phase IV

Midtown Loop  
Detroit, Michigan



Owners:



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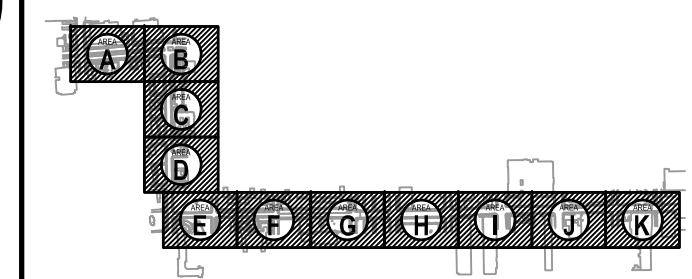
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SEALS AND SIGNATURES

KEY PLAN

Project North



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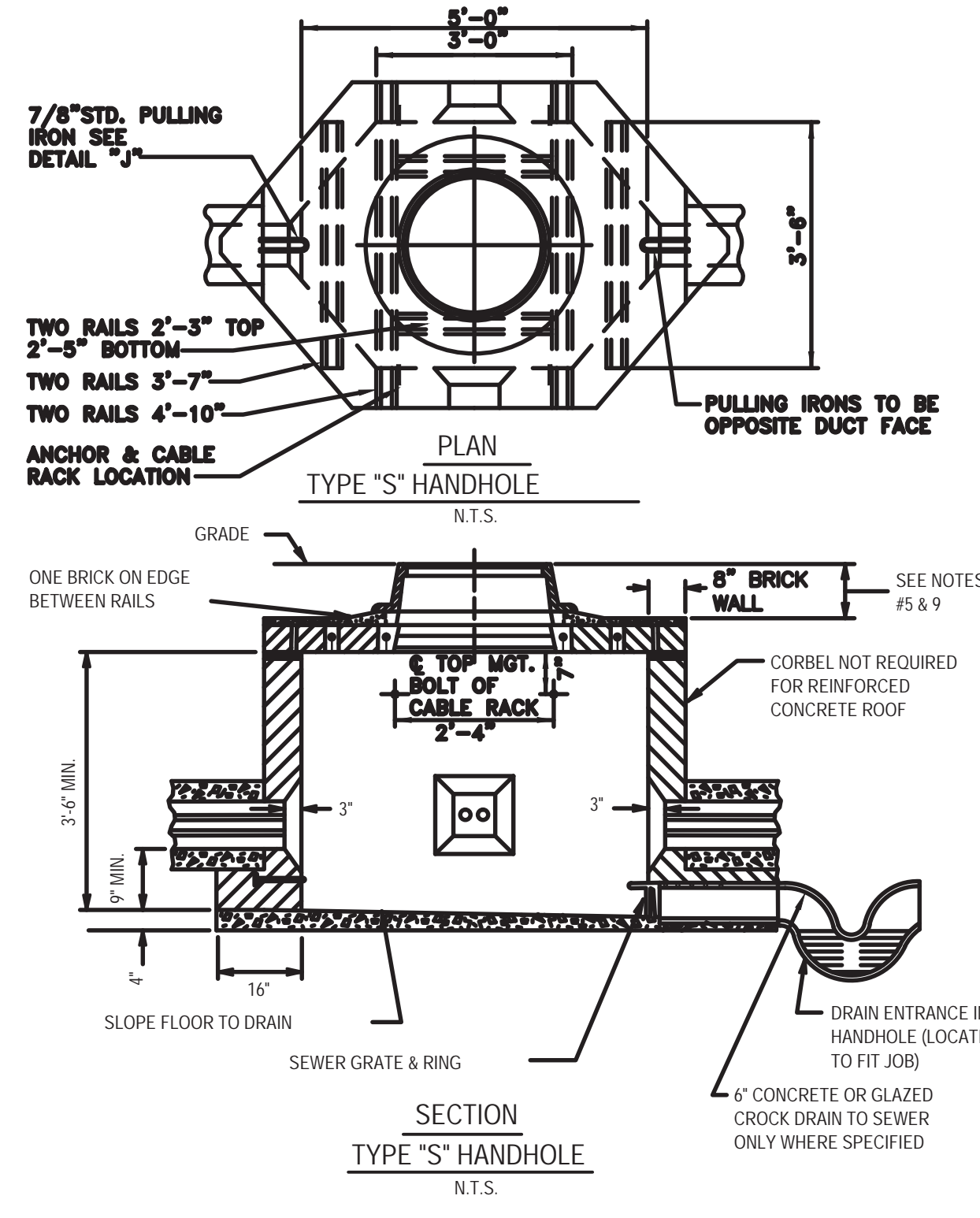
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USE COMMON CONCRETE BRICKS WITH FROGS OR CORES.  
 SIZE: 2-1/4" TO 2-1/2" x 3-3/4" x 8"  
 COMPRESSION STRENGTH: 3000 p.s.i. / 3500 p.s.i. AVE. OF FIVE  
 CONFORMING TO A.S.T.M. C-32 OR C-35  
 BRICK WITH LIME AS A MAJOR CONSTITUENT IS NOT ALLOWED.  
 CONCRETE BLOCKS ARE NOT ACCEPTABLE.

**HANDHOLES:**

- IN PAVEMENT, PROVIDE AT LEAST 3" BETWEEN ROOF AND BASE OF PAVEMENT. WHERE EXISTING GRADE IS HIGHER THAN PROPOSED FUTURE GRADE, INSTALL BRICK RING OR GROUT (AS REQUIRED) UNDER FRAME TO ALLOW FOR FUTURE FRAME ADJUSTMENT.
- WHERE HANDHOLES ARE LOCATED BACK OF CURBS, ROOF MUST BE BUILT 18" BELOW CURB GRADE TO PROVIDE FOR FUTURE WIDENING.

**MANHOLES:**

- WHERE MANHOLES ARE LOCATED BACK OF CURBS, TOP OF M.H. ROOF MUST BE BUILT 26" BELOW CURB GRADE.
- IN EXISTING PAVEMENT, PROVIDE AT LEAST 8" BETWEEN TOP OF MANHOLE ROOF AND BASE OF PAVEMENT.

**MANHOLE / HANDHOLE CHIMNEY CONSTRUCTION**  
N.T.S.

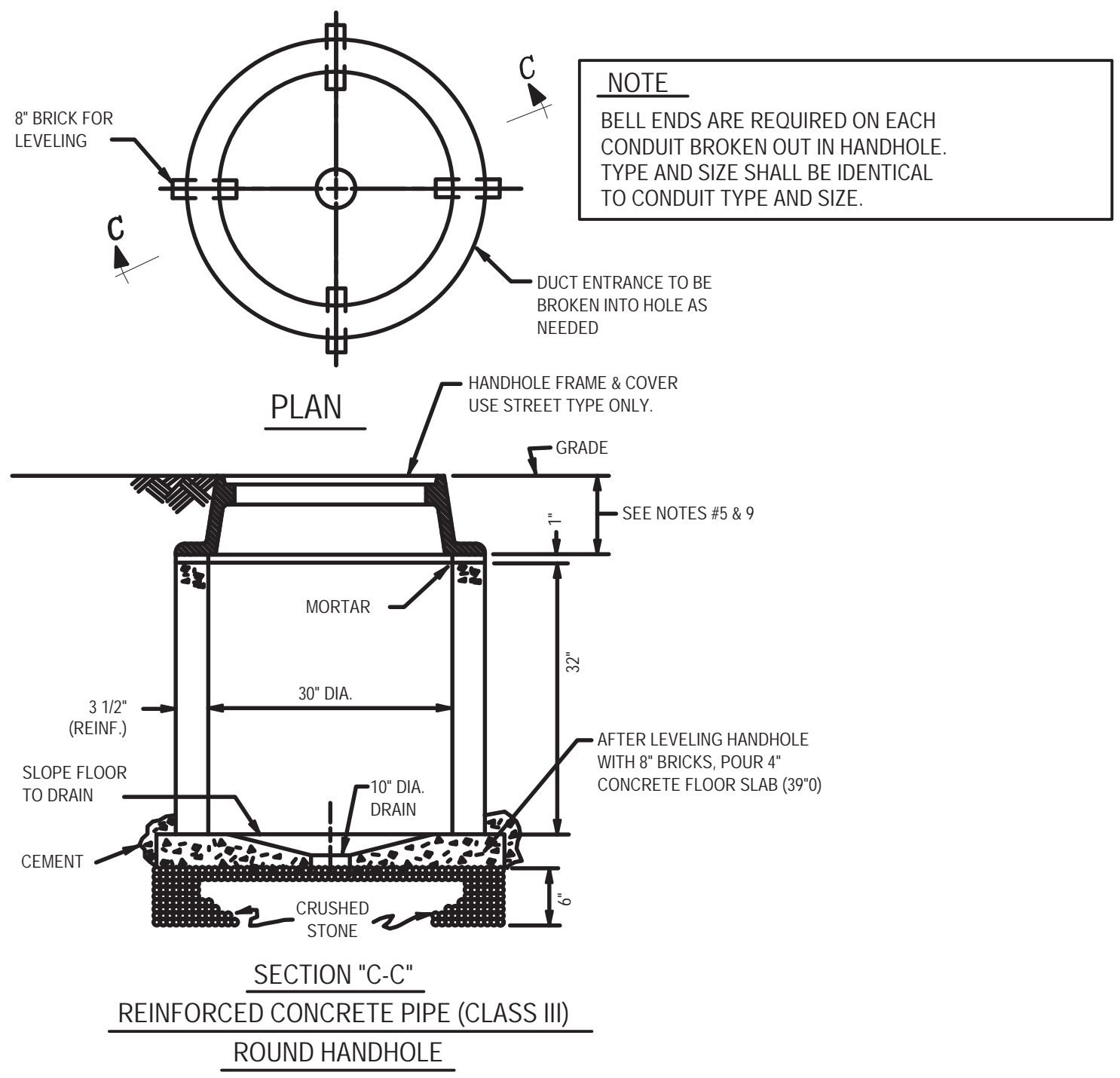
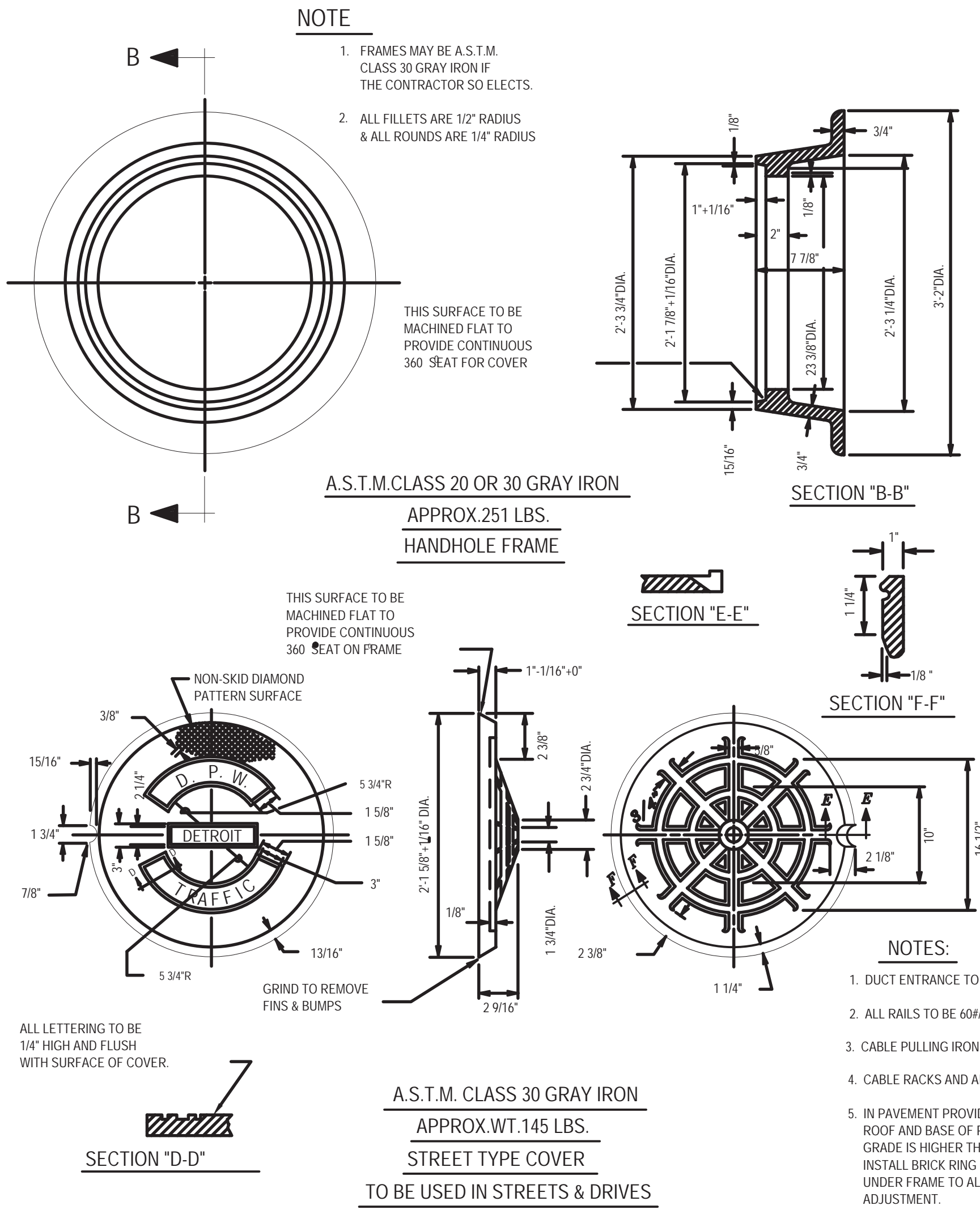
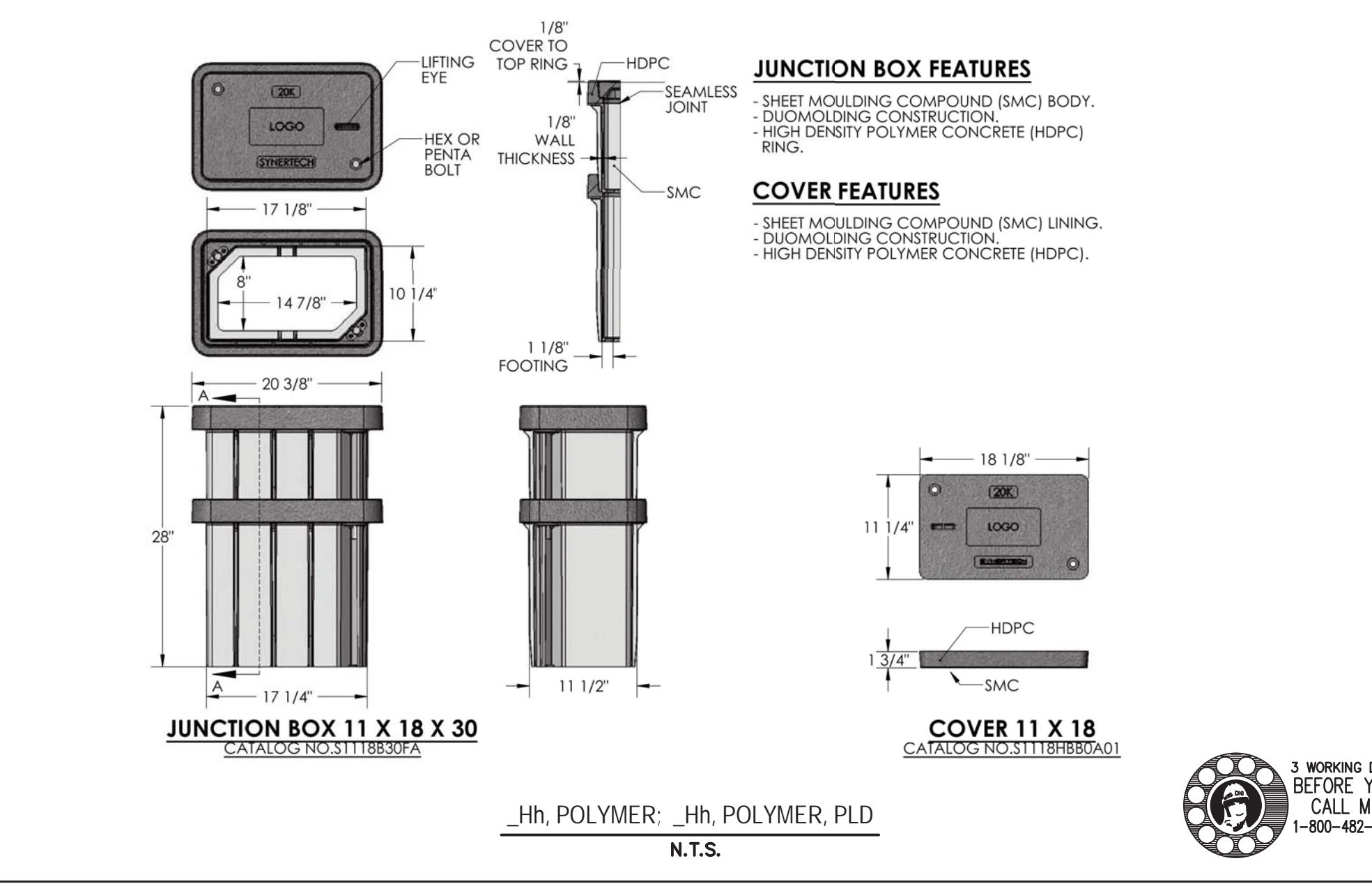
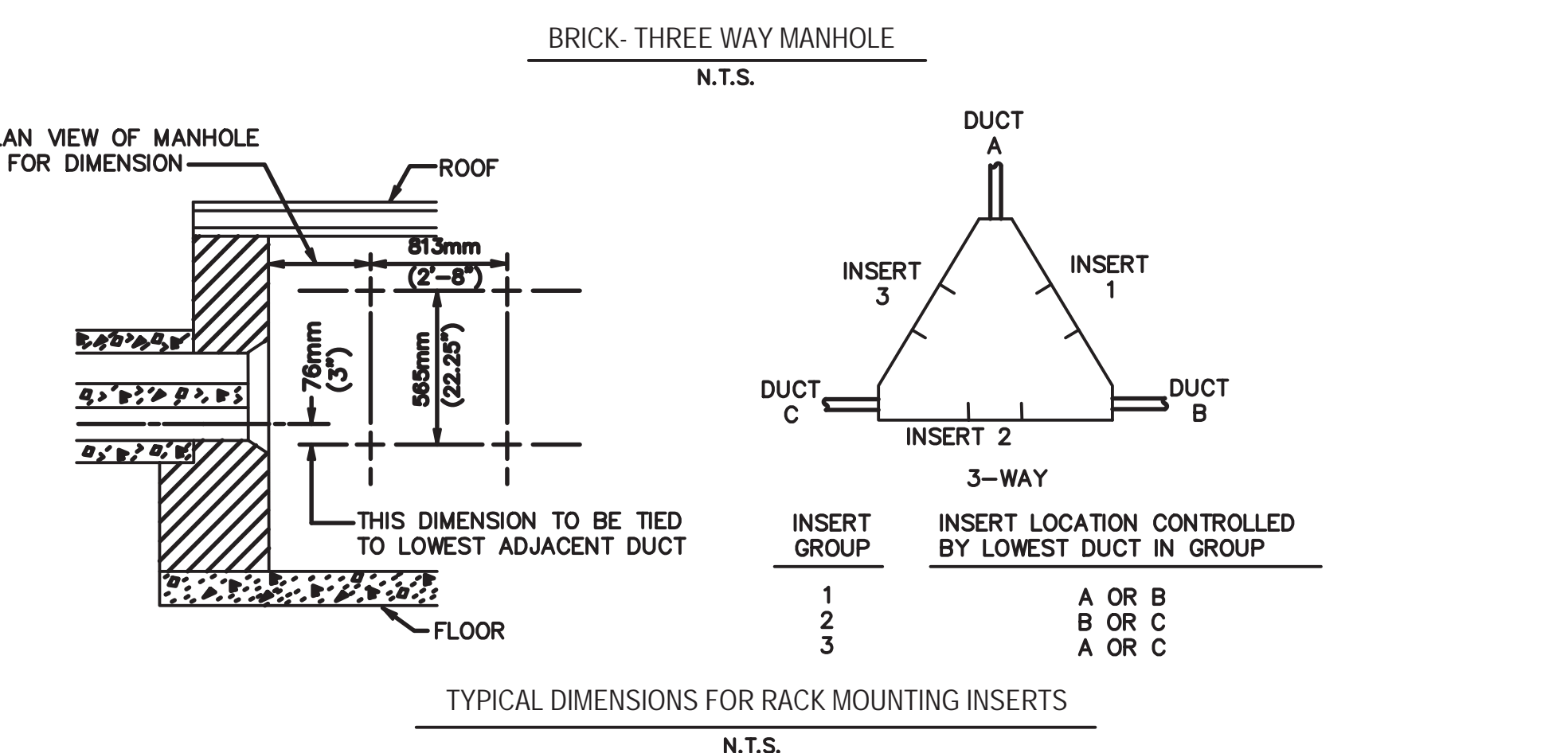
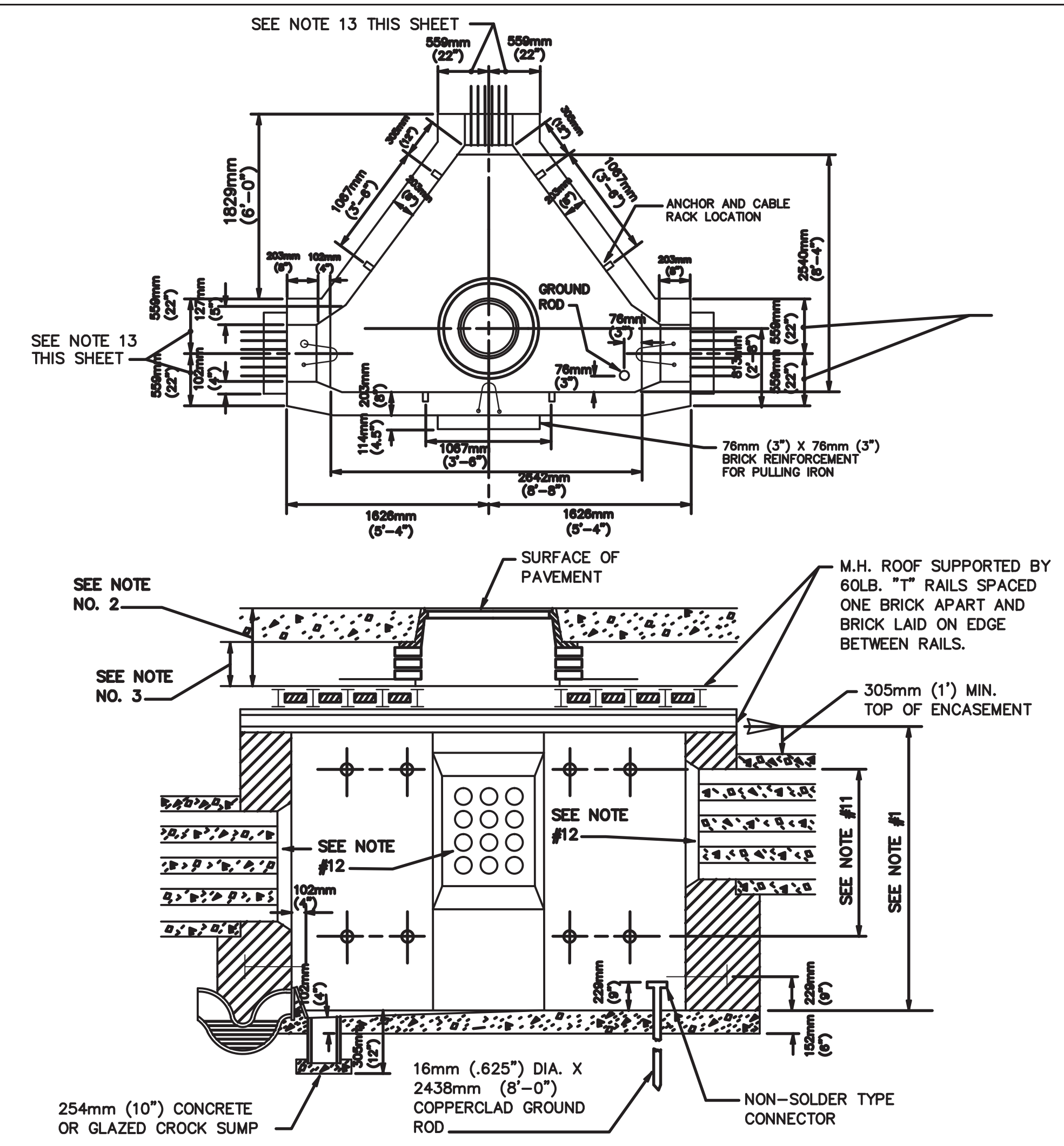
3/8" MORTAR JOINTS  
FULL MORTAR BED

TOP SURFACE MUST BE CLEAN, FIRM & STRUCTURALLY SOUND.

1/2" PLASTER COAT OF MORTAR ON INTERIOR AND EXTERIOR OF CHIMNEY

○ EQUIPMENT NOT PERMITTED TO OPERATE OVER STRUCTURE PRIOR TO 24 HR. AFTER COMPLETION OF WORK.

○ REMOVE CONSTRUCTION DEBRIS FROM STRUCTURE.



- NOTES:**
- DUCT ENTRANCE TO BE BUILT AS REQUIRED.
  - ALL RAILS TO BE 60HYD. OR HEAVIER.
  - CABLE PULLING IRONS TO BE GALVANIZED.
  - CABLE RACKS AND ARMS TO BE GALVANIZED.
  - IN PAVEMENT PROVIDE AT LEAST 6" BETWEEN ROOF AND BASE OF PAVEMENT. WHERE EXISTING GRADE IS HIGHER THAN PROP. FUTURE GRADE INSTALL BRICK RING OR GROUT (AS REQ'D.) UNDER FRAME TO ALLOW FOR FUTURE FRAME ADJUSTMENT.
  - BAR NUMBERS DENOTE THE SIZE OF BAR REQUIRED IN ACCORDANCE WITH CURRENT USAGE SPECIFIED BY THE CONCRETE REINFORCING STEEL INSTITUTE.
  - EXCAVATION LIMITS FOR PUBLIC LIGHTING DEPARTMENT HANDHOLES SHALL BE ON VERTICAL PLANES OF THE FOOTING OUTLINE.
  - INSTALL ANCHORS & CABLE-RACKS AS SHOWN.
  - WHERE HANDHOLES ARE LOCATED BACK OF CURBS, ROOF MUST BE BUILT 18" BELOW CURB GRADE, TO PROVIDE FOR FUTURE WIDENING.

Midtown Loop  
Phase IV  
Midtown Loop  
Detroit, Michigan

**MDOT**  
Michigan Department of Transportation

Owners:  
City of Detroit

**MIDTOWN**  
DETROIT, INC.

Midtown Detroit, Inc.

**SMITHGROUP JJR**

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Project North

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GRAPHIC SCALE TAKES PRECEDENCE  
FULL SIZE SCALE (24x36)

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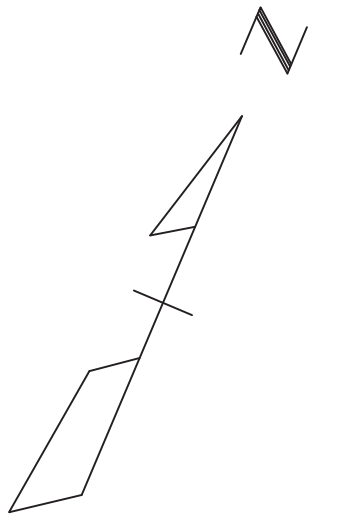
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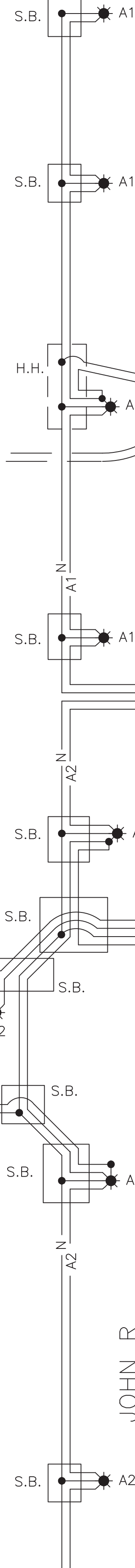
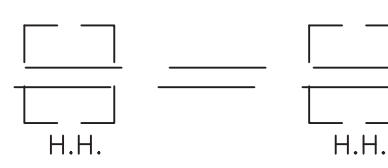
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MACK (M.L.K.)

L.P. #8 L.P. #9

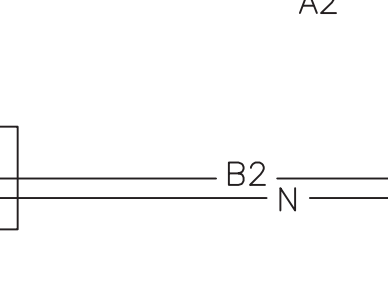
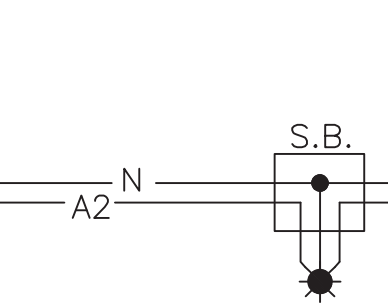
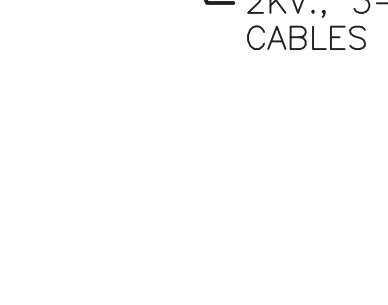
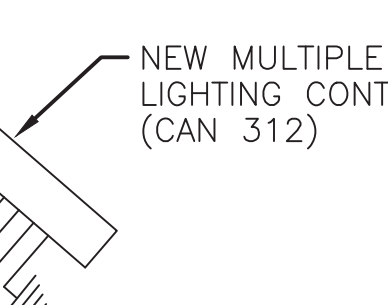
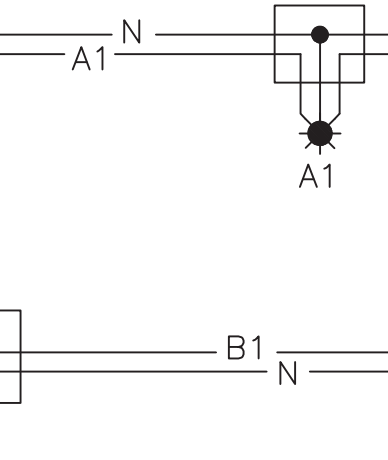
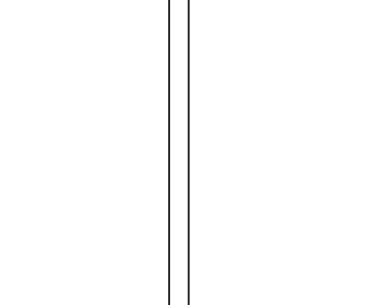
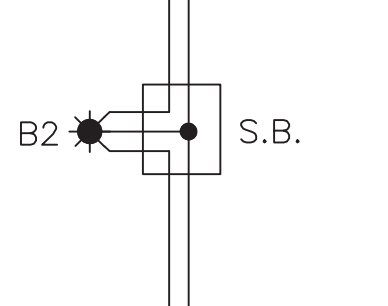
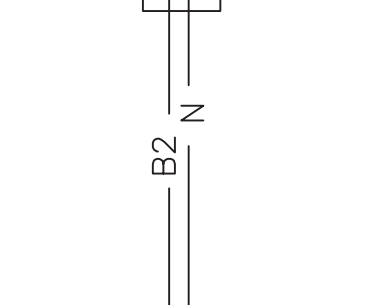
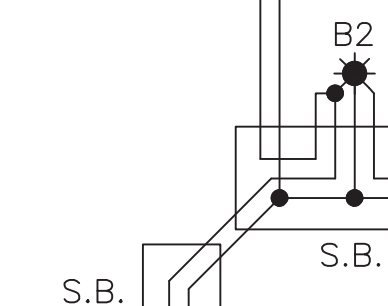
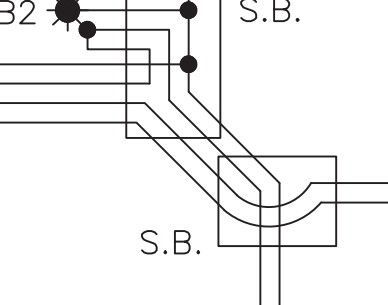
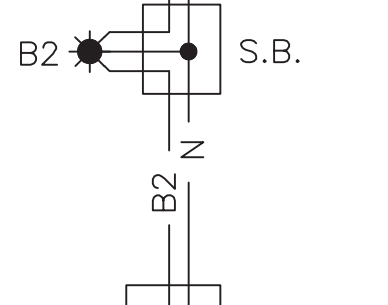
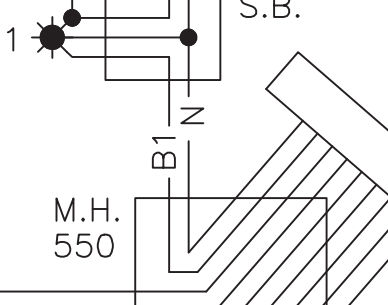
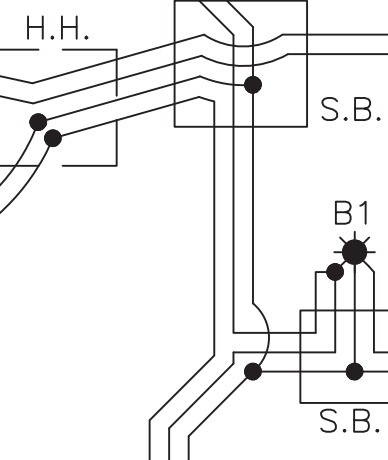


CAN 301-4



JOHN R

JOHN R



ELIOT

ERSKINE

WIRING DIAGRAM

L.P. #10 L.P. #11

A1

A1

A1

A1

A1

A1

A1

A1

A1

A1

A1

A1

A1

BRUSH

BRUSH

BRUSH

BRUSH

BRUSH

BRUSH

BRUSH

BRUSH

BRUSH

BRUSH

SPLICE BOX 1

SPLICE BOX 1

SPLICE BOX 1

SPLICE BOX 1

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SPLICE BOX 1

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SPLICE BOX 2

SPLICE BOX 2

SPLICE BOX 2

SPLICE BOX 2

SPLICE BOX 2

SPLICE BOX 2

NEW MULTIPLE STREET LIGHTING CONTROL CABINET (CAN 312)

2KV., 3-1/C #2 SECONDARY CABLES FOR ST. LTG. FEED

2KV., 1-1/C #2 ST. LTG. CABLE AND 1-#2 NEUTRAL (TYP.)

ERSKINE

ERSKINE

ERSKINE

COLOR CODE:  
A-RED  
B-BLACK  
N-WHITE



MATCH LINE (LIGHTING PLAN NO. 15)

MATCH LINE (LIGHTING PLAN NO. 15)

REVISION 1: 6-15-05 PLD COMMENTS  
P.L.D. FILE NO. 51-0642

LIGHTING PLAN NO. 14

MANSELL ASSOCIATES INC.  
ENGINEERING CONSULTANTS  
33608 Grand River  
Farmington, MI 48335  
(248) 473-7070

Drawn M.A.I.  
Checked  
Drwg. No. 16 OF 35  
File No. M2097

CITY OF  
DETROIT  
PUBLIC LIGHTING DEPARTMENT

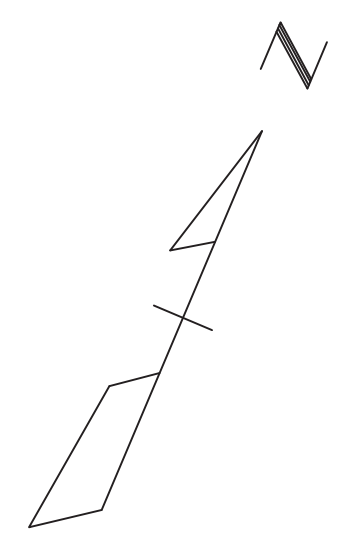
BRUSH PARK PHASE III ROADWAY LIGHTING					
DATE	SCALE	CONT. SEC.	JOB NO.	DESIGN UNIT	SHEET NO.
3-1-05	1"=40'				JOB NO. CONST.

NOTE: THE ELECTRICAL WIRING DIAGRAMS AND/OR DETAILS ILLUSTRATED ON THIS SHEET ARE FROM THE PHASE II PROJECT OF THE MIDTOWN LOOP THAT HAS BEEN CONSTRUCTED. THE ELECTRICAL SERVICE FOR PHASE IV IS BEING TIED INTO THIS EXISTING ELECTRICAL SYSTEM. THE WIRING DIAGRAMS ARE BEING PROVIDED FOR REFERENCE.

MATCH LINE (LIGHTING PLAN NO. 14)

L.P. #10 L.P. #11

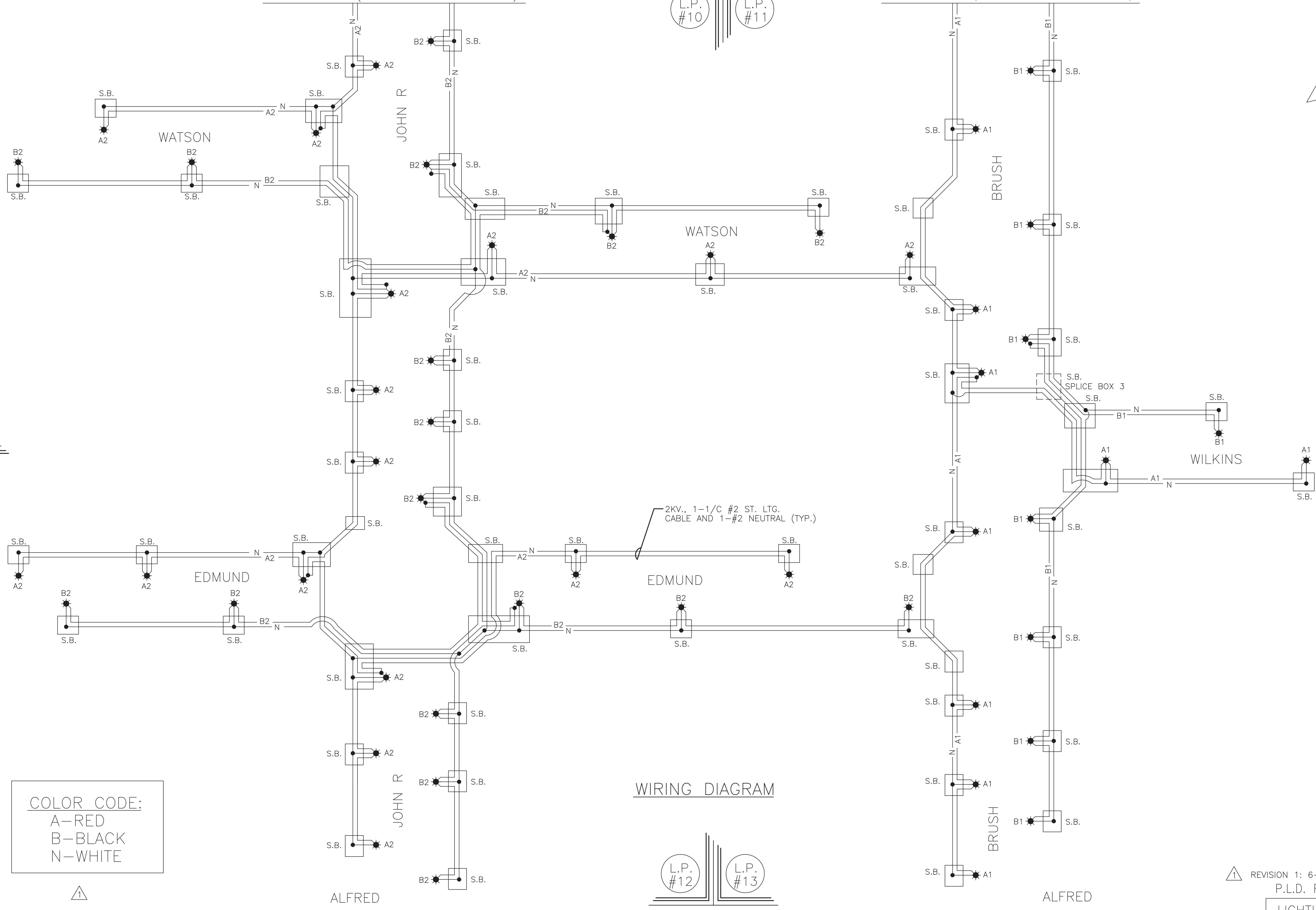
MATCH LINE (LIGHTING PLAN NO. 14)



WOODWARD

WOODWARD

BEAUBIAN



L.P. #10 L.P. #12

L.P. #11 L.P. #13

COLOR CODE:  
A-RED  
B-BLACK  
N-WHITE



WIRING DIAGRAM

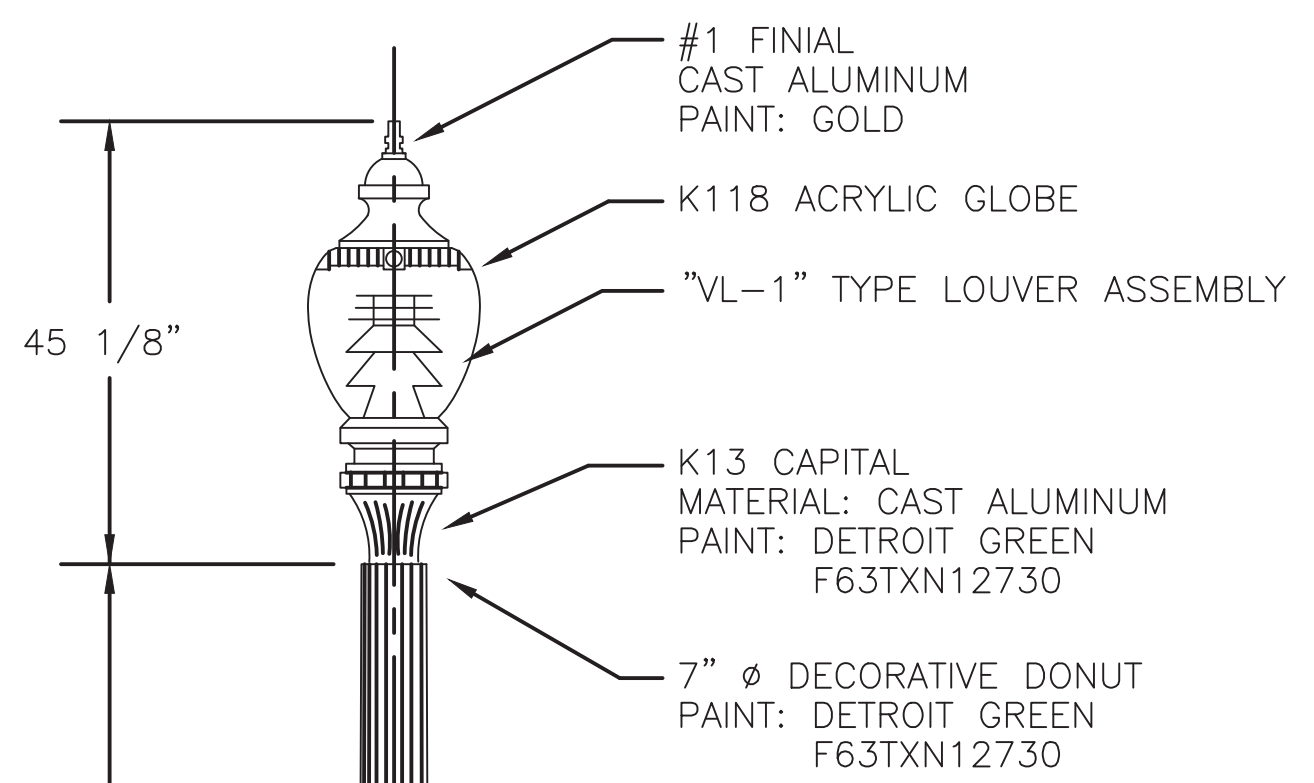
L.P. #12 L.P. #13

REVISION 1: 6-15-05 PLD COMMENTS  
P.L.D. FILE NO. 51-0642

LIGHTING PLAN NO. 15

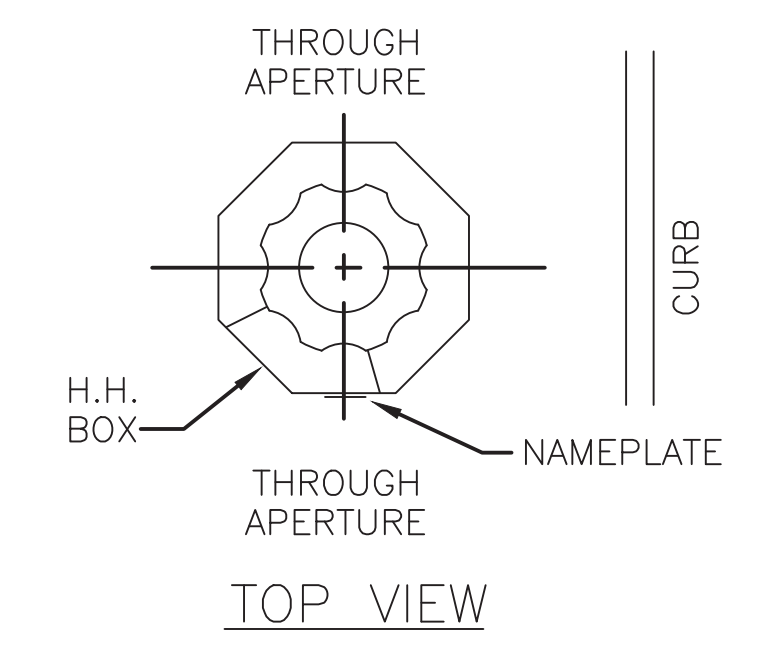
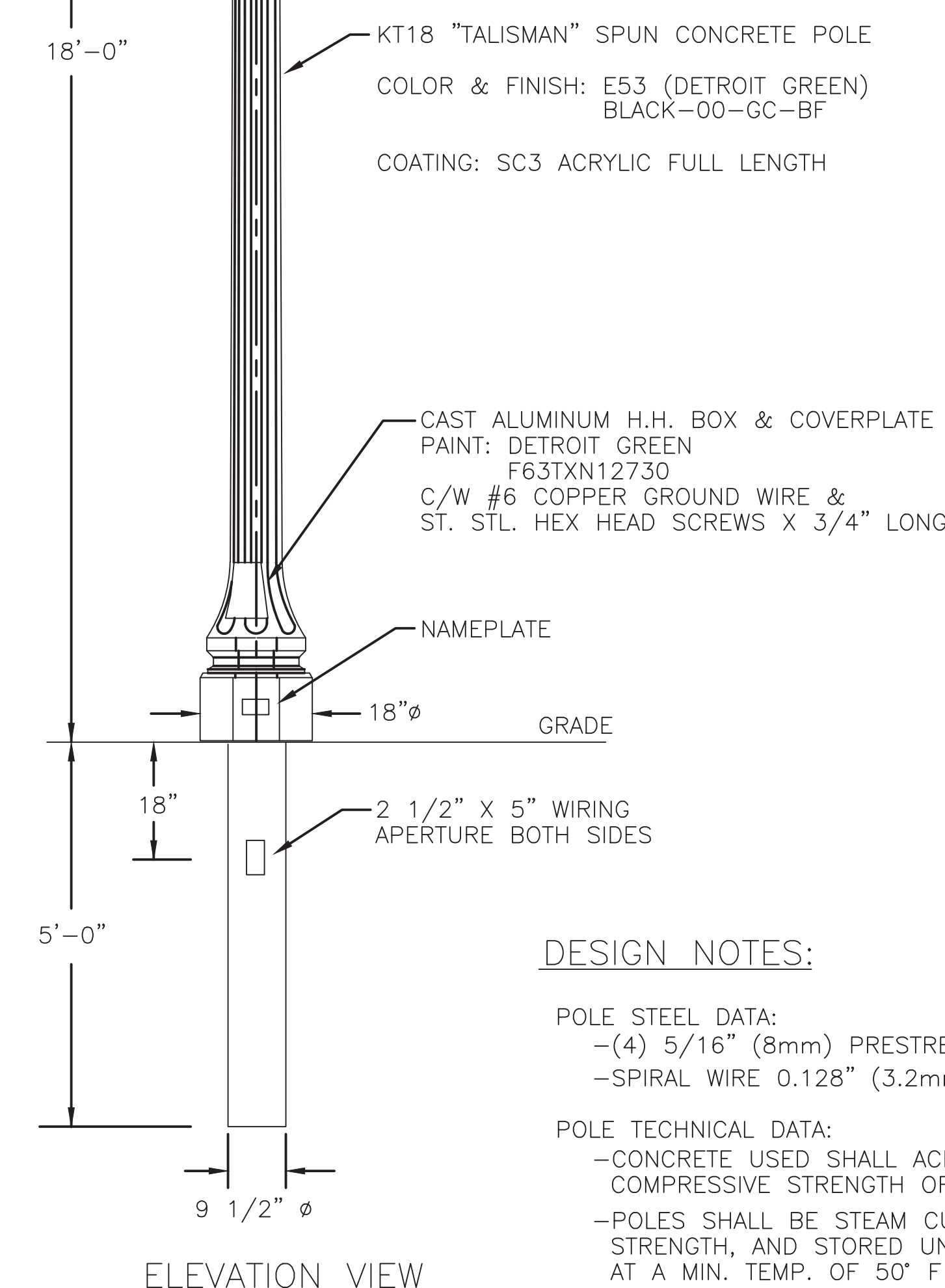
NOTE:  
THE ELECTRICAL WIRING DIAGRAMS AND/OR DETAILS ILLUSTRATED ON THIS SHEET ARE FROM THE PHASE II PROJECT OF THE MIDTOWN LOOP THAT HAS BEEN CONSTRUCTED. THE ELECTRICAL SERVICE FOR PHASE IV IS BEING TIED INTO THIS EXISTING ELECTRICAL SYSTEM. THE WIRING DIAGRAMS ARE BEING PROVIDED FOR REFERENCE.

<b>MANSELL ASSOCIATES INC.</b> ENGINEERING CONSULTANTS 33608 Grand River Farmington, MI. 48335 (248) 473-7070	Drawn M.A.I. Checked Drwg. No. 17 OF 35 File No. M2097	CITY OF <b>DETROIT</b> PUBLIC LIGHTING DEPARTMENT	<b>BRUSH PARK PHASE III ROADWAY LIGHTING</b>			
	DATE 3-1-05 SCALE 1"=40' CONT. SEC. JOB NO. DESIGN UNIT SHEET NO. JOB NO. CONST.					

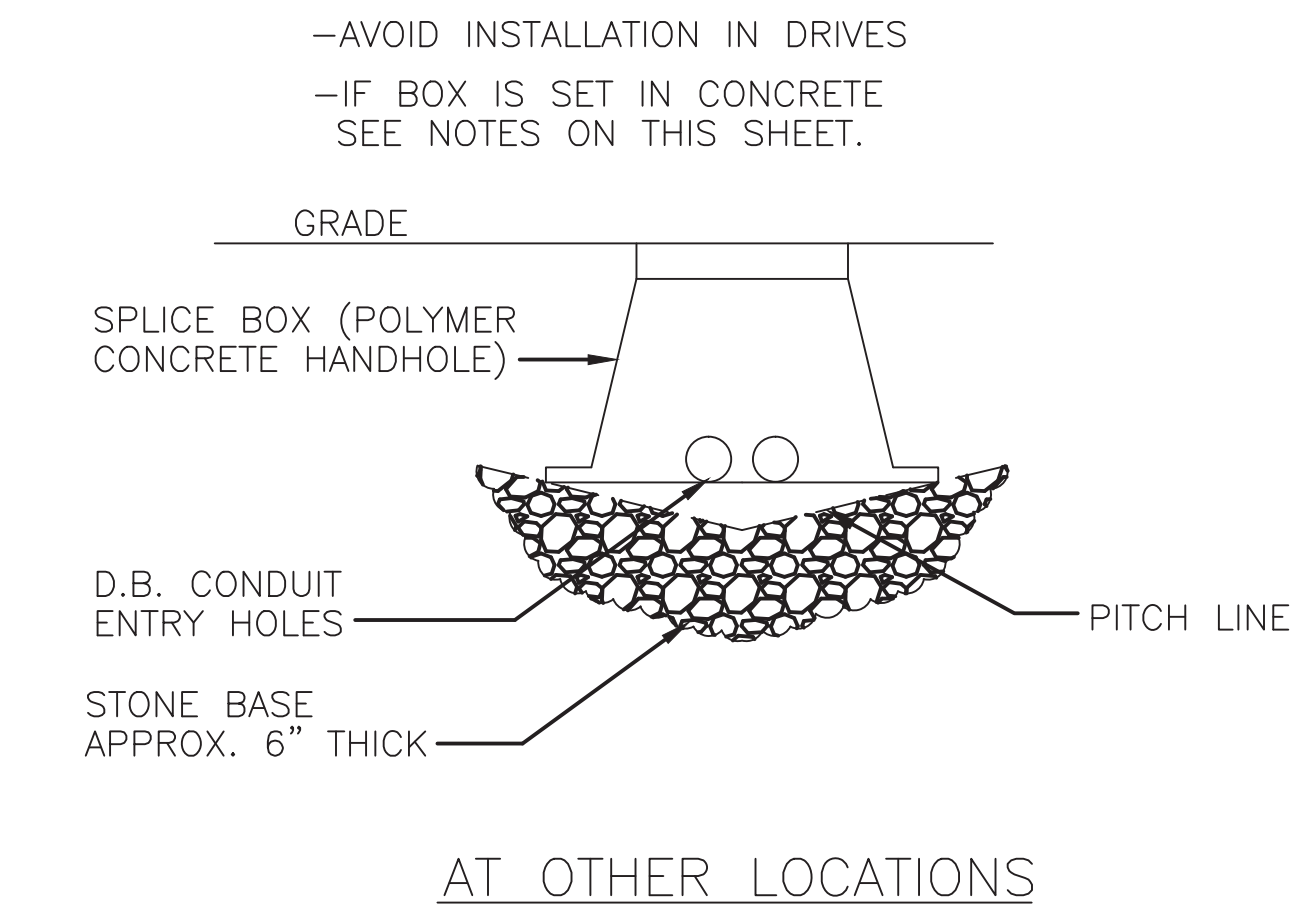
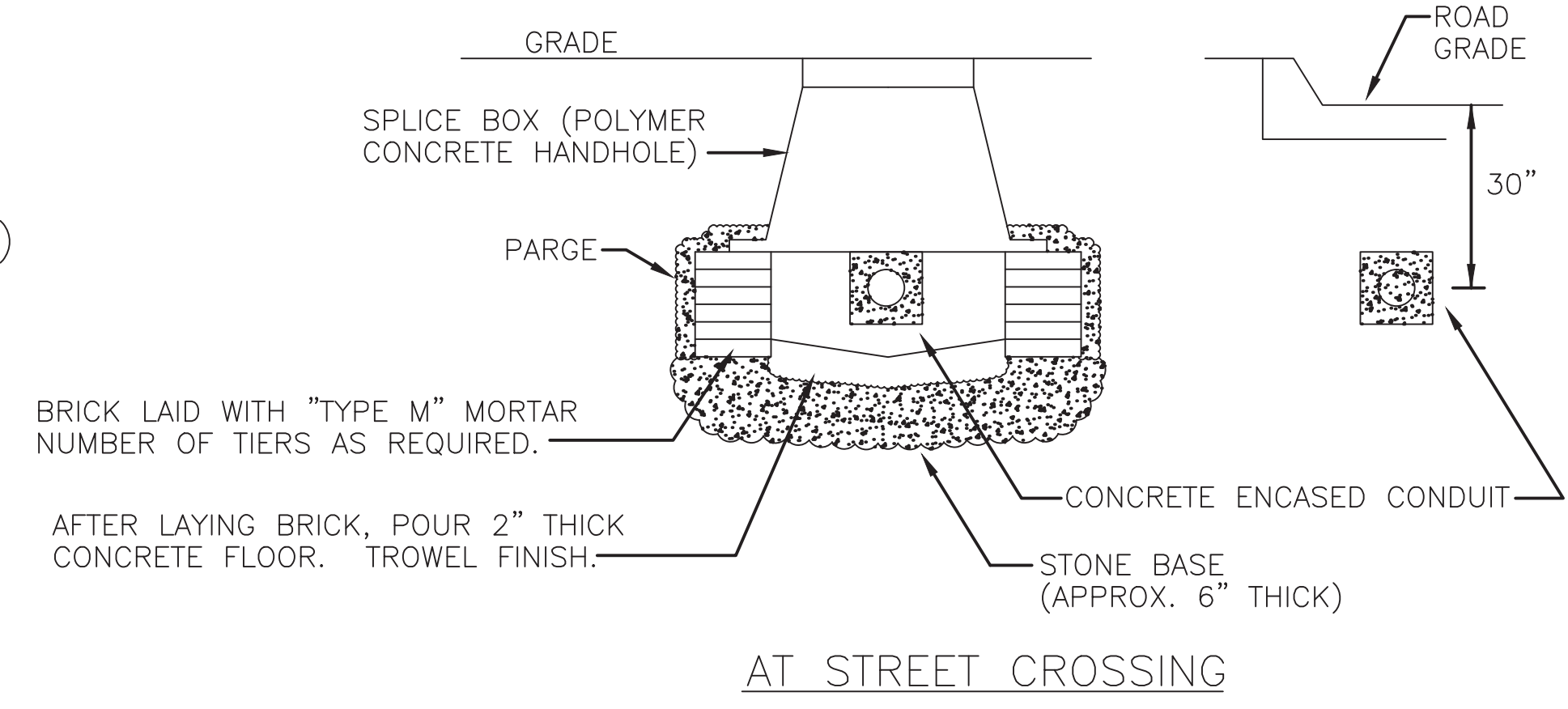


**LUMINAIRE SPECIFICATIONS:**  
 CATALOGUE NO: K118-LAR-III-175(MOG)  
 -MH-240(MT)-K13  
 GLOBE MAT'L: ACRYLIC  
 IES CLASSIFICATION: TYPE III  
 WATTAGE: 175W  
 LIGHT SOURCE: METAL HALIDE  
 LINE VOLTAGE: 240V. (MULTI TAP)  
 PAINT: DETROIT GREEN  
 F63TXN12730

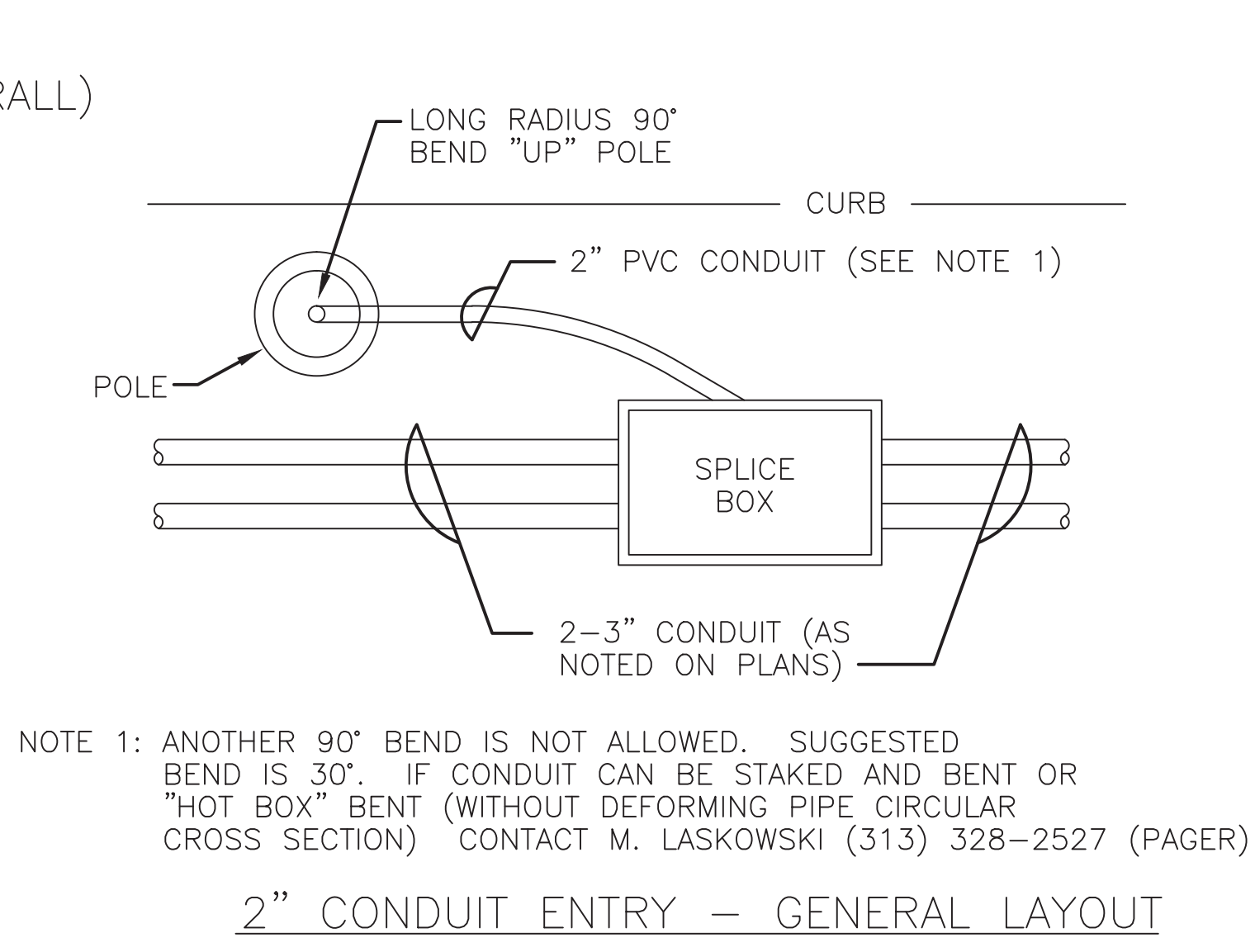
**POLE SPECIFICATIONS:**  
 CATALOGUE NO: KT18-G-E53 C/W  
 140-35/40  
 SECTION: OCT. FLUTED  
 COLOUR: DETROIT GREEN  
 FINISH: ETCHED  
 POLE TOP: 6 1/8" FL/FL  
 POLE BUTT: 9 1/2" ø  
 POLE LENGTH: 18' 0" (23' 0" OVERALL)  
 APPROX. WGT: 1380 LBS.



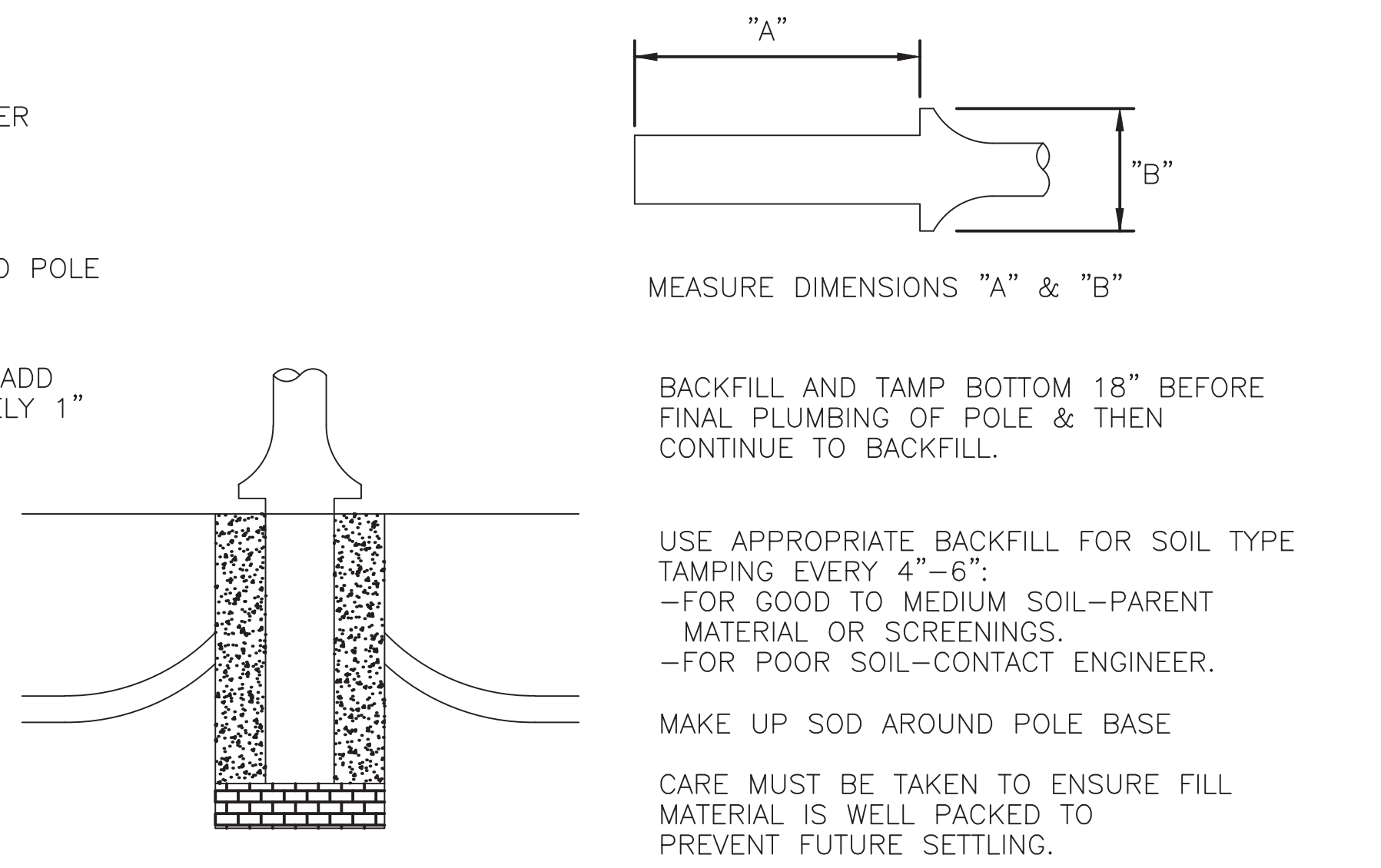
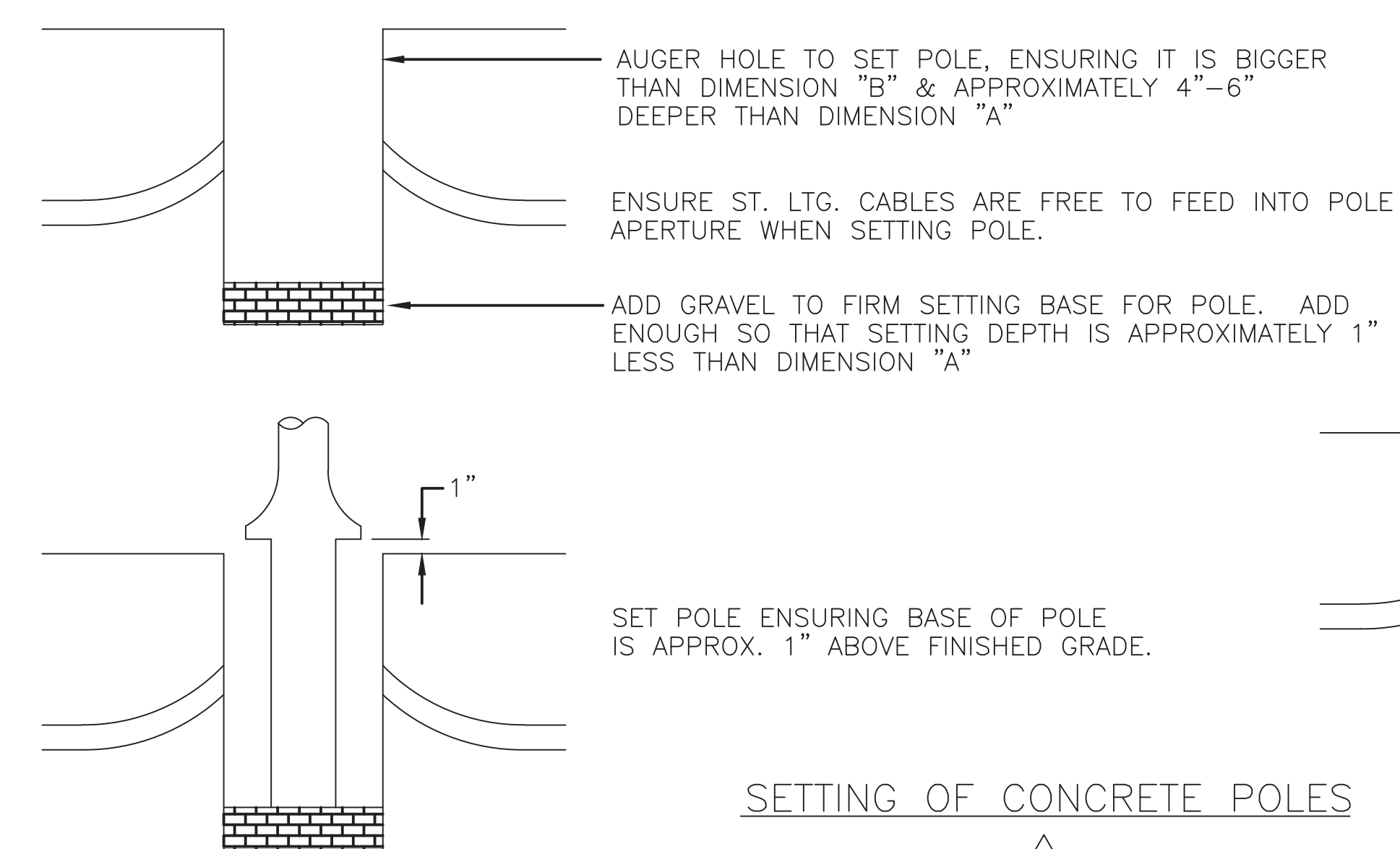
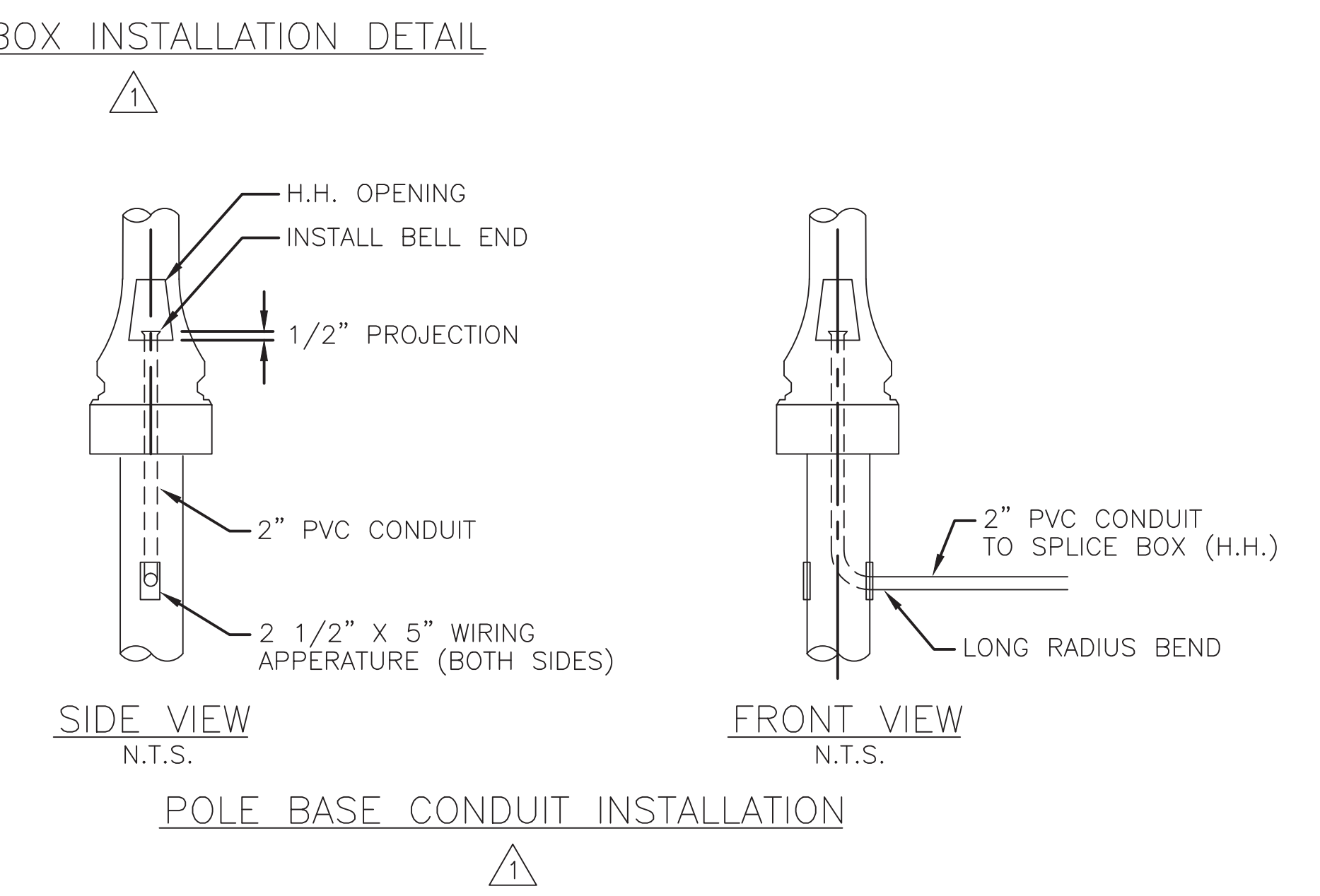
**DESIGN NOTES:**  
 POLE STEEL DATA:  
 -(4) 5/16" (8mm) PRESTRESS STRANDS  
 -SPIRAL WIRE 0.128" (3.2mm) GALV.  
 POLE TECHNICAL DATA:  
 -CONCRETE USED SHALL ACHIEVE A MIN 28 DAY COMPRESSIVE STRENGTH OF 8000 PSI (55.14 MPA)  
 -POLES SHALL BE STEAM CURED TO A 3 DAY STRENGTH, AND STORED UNDER COVER FOR 72 HOURS AT A MIN. TEMP. OF 50° F (10° C)  
 -AN AIR ENTRAINMENT ADMIXTURE SHALL BE USED TO PRODUCE A 6% ±1% AIR CONTENT IN THE MIX.  
 -PRESTRESSING STEEL REINFORCEMENT SHALL BE STRESSED TO A MAX. OF 70% OF THEIR ULTIMATE CAPACITY, AND SHALL NOT BE RELEASED UNTIL A MIN. COMPRESSIVE STRENGTH OF 3500 PSI (24.1 MPA) HAS BEEN ACHIEVED.



**NOTES:**  
 CONDUIT ENTRY HOLES ARE TO BE CUT IN THE BOX WITH A CIRCULAR SAW. HOLES MUST BE ONE INCH OFF THE BOTTOM EDGE OF THE BOX AND ONE INCH APART ON THE EDGES OF THE NEXT HOLE.  
 IF BOX IS SET IN CONCRETE, THE CONCRETE TOUCHING THE BOX EDGE MUST MATCH THE THICKNESS OF THE CONCRETE SURFACE. DO NOT BACKFILL A BOX IN CONCRETE.  
 THE BOX REQUIRES A CONCRETE FLOOR AND A 'FRENCH' DRAIN. AFTER BOX IS SET AT FINAL GRADE AND CONDUITS ARE INSTALLED, PITCH GRAVEL TOWARDS THE CENTER OF THE BOX. TAKE A PIECE OF 4" DIA. APPROX. 8" LONG PVC PIPE AND USE IT TO FORM THE TRAP BY INSERTING IT APPROX. 3" INTO THE STONE, IN THE CENTER OF THE BOX. POUR A FLOOR APPROX. TWO INCHES THICK AND TROWEL FINISH. REMOVE PVC PIPE IMMEDIATELY.



NOTE 1: ANOTHER 90° BEND IS NOT ALLOWED. SUGGESTED BEND IS 30°. IF CONDUIT CAN BE STAKED AND BENT OR "HOT BOX" BENT (WITHOUT DEFORMING PIPE CIRCULAR CROSS SECTION) CONTACT M. LASKOWSKI (313) 328-2527 (PAGER)



MEASURE DIMENSIONS "A" & "B"  
 BACKFILL AND TAMP BOTTOM 18" BEFORE FINAL PLUMBING OF POLE & THEN CONTINUE TO BACKFILL.  
 USE APPROPRIATE BACKFILL FOR SOIL TYPE TAMPING EVERY 4"-6":  
 -FOR GOOD TO MEDIUM SOIL-PARENT MATERIAL OR SCREENINGS.  
 -FOR POOR SOIL-CONTACT ENGINEER.  
 MAKE UP SOD AROUND POLE BASE  
 CARE MUST BE TAKEN TO ENSURE FILL MATERIAL IS WELL PACKED TO PREVENT FUTURE SETTLING.

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