

# I-75 Engineering Report M-102 to South of 12 Mile Rd

CS 63174 – JN 45700 and 100948

## Appendix C Existing Utility Plans & Proposed Utility Conflict Plans

Submitted to:



Michigan Department of Transportation

August, 2010





\$FILES  
\$DATES  
\$TIMES  
\$USERS

# INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	SHEET LAYOUT AND QUALITY LEVELS
3-27	EXISTING UTILITY LAYOUT



# QUALITY LEVELS

## ASCE QUALITY LEVELS

- QUALITY LEVEL D - THE MOST BASIC LEVEL, BASED SOLELY ON EXISTING RECORDS AND SCHEMATICS, OFTEN INACCURATE OR OUT-OF-DATE. MAY PROVIDE ADEQUATE INFORMATION FOR RUDIMENTARY PLANNING OR BACKGROUND PURPOSES.
- QUALITY LEVEL C - COMBINES LEVEL D INFORMATION WITH GROUND SURVEY OF UTILITY SURFACE FEATURES SUCH AS PEDESTALS, POWER POLES, VENT PIPES, MANHOLES, VALVE BOXES, ETC. USE OF THIS DATA ALONE TENDS TO RESULT WITH 15 TO 30 PERCENT OF UNDERGROUND UTILITIES OMITTED OR PLOTTED WITH MORE THAN TWO FEET OF ERROR.
- QUALITY LEVEL B - OBTAINED BY PERFORMING A PHASE I (DESIGNATING) SURVEY TO MAP THE HORIZONTAL LOCATION (WITH AN ACCURACY OF LESS THAN +/- 1.0 FOOT) OF UNDERGROUND UTILITIES. THIS LEVEL ADDRESSES PROBLEMS CAUSED BY INACCURATE UTILITY RECORDS, ABANDONED OR UNRECORDED FACILITIES, AND LOST REFERENCES. THE DATA IS EXTREMELY USEFUL FOR PLANNING AND DESIGN USE, MAKING IT POSSIBLE TO AVOID COSTLY UTILITY RELOCATES AND PREVENT EXPENSIVE CONSTRUCTION DOWN TIME AND CHANGE ORDERS. LIMITED VERTICAL DATA.
- QUALITY LEVEL A - OBTAINED BY PERFORMING A PHASE II (LOCATING) VACUUM EXCAVATION AND SURVEY TO PRECISELY MAP THE TRUE HORIZONTAL AND VERTICAL LOCATION OF THE UNDERGROUND UTILITIES AT A SELECTED POINT. THIS DATA PROVIDES THE HIGHEST ACCURACY PRESENTLY AVAILABLE, PERMITTING THE DEVELOPMENT OF PRECISE PLAN AND PROFILE SHEETS USEFUL IN MAKING FINAL DESIGN DECISIONS. ADDITIONAL INFORMATION SUCH AS UTILITY MATERIAL, CONDITION, SIZE, OWNER, OBVIOUS SOIL CONTAMINATION, AND PAVEMENT THICKNESS AND TYPE ARE ALSO MADE AVAILABLE TO ASSIST THE DESIGNER AND UTILITY OWNERS IN THEIR DECISIONS.

COMPANY	CONTACT	PHONE NUMBER
AT&T	Andy Kolowski	630 810 6261
Madison Heights	Richard Mangus	248 583 0831
Comcast	Jim Stitzel	586 883 7253
Consumers Energy	Kevin O'Reilly	248 433 5618
Detroit Edison	Anjanette Borowski	313 235 9284
MDOT freeway lighting	Bob Richards	248 373 0619
MDOT traffic	Tom Mullin	313 256 9800
Oakland County Drain Commission	John McCulloch	248 858 0958

## NOTES:

- UTILITIES ON THESE DRAWINGS THAT HAVE BEEN IDENTIFIED TO FHWA LEVEL D ARE SHOWN WITH THE LETTER "D" IN PARENTHESES IN THE LINSTYLE.
- UTILITIES ON THESE DRAWINGS THAT HAVE BEEN IDENTIFIED TO FHWA LEVEL C ARE SHOWN WITH THE LETTER "C" IN PARENTHESES IN THE LINE STYLE.
- UTILITIES ON THESE DRAWINGS THAT HAVE BEEN IDENTIFIED TO FHWA LEVEL B ARE SHOWN WITH THE LETTER "B" IN PARENTHESES IN THE LINE STYLE.
- THE LOCATION OF THE SANITARY SEWER LINES ARE BASED ON RECORDS SUPPLIED BY THE CITY OF ROYAL OAK, DETROIT, AND WHERE AVAILABLE SURVEYED SURFACE FEATURES. THEY ARE THEREFORE SHOWN AT FHWA QUALITY LEVEL C. SANITARY SEWER SERVICE LINES ARE NOT SHOWN.
- WHERE AVAILABLE, UTILITY SIZE AND TYPE INFORMATION IS SHOWN. THIS INFORMATION IS BASED ON RECORDS SUPPLIED BY UTILITY REPRESENTATIVES AND HAS NOT BEEN VERIFIED BY LEVEL A VACUUM EXCAVATION TEST HOLES.
- UTILITY LOCATIONS ON THESE DRAWINGS ARE INTENDED FOR DESIGN PURPOSES AND NOT CONSTRUCTION. CALL MISS DIG (800) 482-7171 OR 811 FOR UTILITY LOCATIONS 72 HOURS PRIOR TO ANY WORK.
- WHERE POSSIBLE WATER, GAS, AND TELEPHONE SERVICE LINES WERE DESIGNATED. HOWEVER SOME SERVICE LINES ARE CONSTRUCTED OF NONCONDUCTIVE MATERIAL AND UTILITY COMPANY DRAWINGS DO NOT SHOW SERVICE LINE LOCATIONS THEREFORE NOT ALL SERVICE LINES ARE SHOWN.
- DOT TRAFFIC CIRCUIT CONDUITS CARRY BURIED POWER AND FIBER OPTIC IN SOME LOCATIONS.

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THE INFORMATION CONTAINED ON THESE PLANS IS FOR DESIGN PURPOSES ONLY AND REFLECTS SUBSURFACE UTILITIES AT THE TIME SURVEYED.

UTILITY LOCATIONS DEPICTED ON THESE PLANS ARE NOT FOR CONSTRUCTION PURPOSES. CONTRACTOR SHALL CALL "MISS DIG" BEFORE EXCAVATING AS REQUIRED BY LAW

NO.	DATE	REVISION DESCRIPTION	APP. BY

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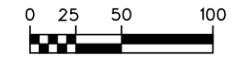
I - 75

# SHEET LAYOUT AND QUALITY LEVELS


\$FILES \$DATES \$TIMES \$USERS



\$FILES  
\$DATES  
\$TIMES  
\$USERS



**LEGEND**

- PROPOSED ROW ---
- EXISTING ROW ---
- EDGE OF PAVEMENT ---
- FIBER OPTICS**
- VERIZON TELE F01 ---
- DOT TELE F02 ---
- AT&T TELE F03 ---
- TELEPHONE**
- AT&T TELE3 ---
- DUCTS**
- AT&T DUCT3 ---
- GAS LINES**
- CONSUMER'S ENERGY GAS1 ---
- ELECTRIC**
- DTE ELEC1 ---
- DOT TRAFFIC/ELEC2 ---
- DOT ELEC3 ---
- STREETLIGHT CATV ---
- COMCAST CTV1 ---
- WASTEWATER**
- HAZEL PARK WWS1 ---
- DETROIT WWS2 ---
- ROYAL OAK WWS3 ---
- FORCE MAIN FM ---
- COMBINED CS ---
- SANITARY/STORM WATER
- HAZEL PARK WWS1 ---
- DETROIT WWS2 ---
- ROYAL OAK WWS3 ---
- STORM SEWER**
- HAZEL PARK S11 ---
- ROYAL OAK S13 ---
- ELECTRIC MANHOLE E
- WATER VALVE V
- HYDRANT H
- WATER METER M
- WATER MANHOLE W
- TRAFFIC SIGNAL S
- QUALITY LEVEL TRANSITION Q
- CATCH BASIN C
- UTILITY MANHOLE U



MATCHLINE STA 280

MATCHLINE STA 712

\$USER\$

\$TIME\$

\$DATE\$

\$FILE\$

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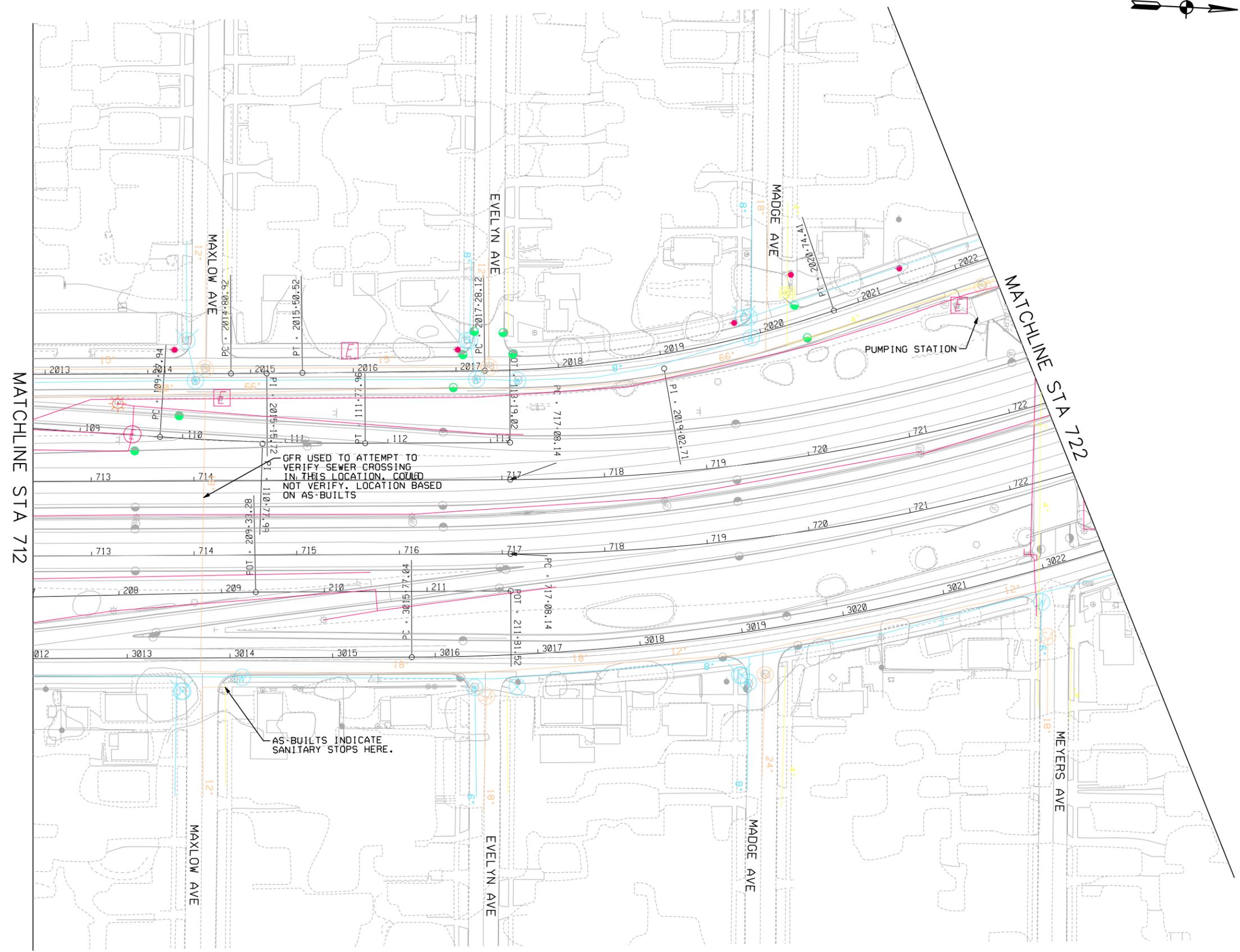
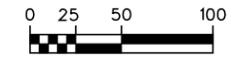


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I-75  
**UTILITY LAYOUT**

SHEET 2 OF 25


\$FILES  
\$DATES  
\$TIMES  
\$USERS



MATCHLINE STA 712

MATCHLINE STA 722

GFR USED TO ATTEMPT TO VERIFY SEWER CROSSING IN THIS LOCATION. COULD NOT VERIFY. LOCATION BASED ON AS-BUILTS

AS-BUILTS INDICATE SANITARY STOPS HERE.

**LEGEND**

PROPOSED ROW	---
EXISTING ROW	---
EDGE OF PAVEMENT	---
<b>FIBER OPTICS</b>	
VERIZON	---
DOT	---
AT&T	---
<b>TELEPHONE</b>	
AT&T	---
<b>DUCTS</b>	
AT&T	---
<b>GAS LINES</b>	
CONSUMER'S ENERGY	---
<b>ELECTRIC</b>	
DTE	---
DOT TRAFFIC	---
DOT	---
STREETLIGHT	---
<b>CATV</b>	
COMCAST	---
<b>WASTEWATER</b>	
HAZEL PARK	---
DETROIT	---
ROYAL OAK	---
FORCE MAIN	---
COMBINED	---
SANITARY/STORM	---
<b>WATER</b>	
HAZEL PARK	---
DETROIT	---
ROYAL OAK	---
<b>STORM SEWER</b>	
HAZEL PARK	---
ROYAL OAK	---
ELECTRIC	---
MANHOLE	---
LIGHT POLE	---
POWER POLE	---
TEL/CATV PEDESTAL	---
TELEPHONE MANHOLE	---
SANITARY/STORM MH	---
GAS VALVE	---
UTILITY MANHOLE	---
ELECTRIC HANDHOLE	---
WATER VALVE	---
FIRE HYDRANT	---
WATER METER	---
WATER MANHOLE	---
TRAFFIC SIGNAL	---
QUALITY LEVEL TRANSITION	---
CATCH BASIN	---

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**UTILITY LAYOUT**  
SHEET 3 OF 25

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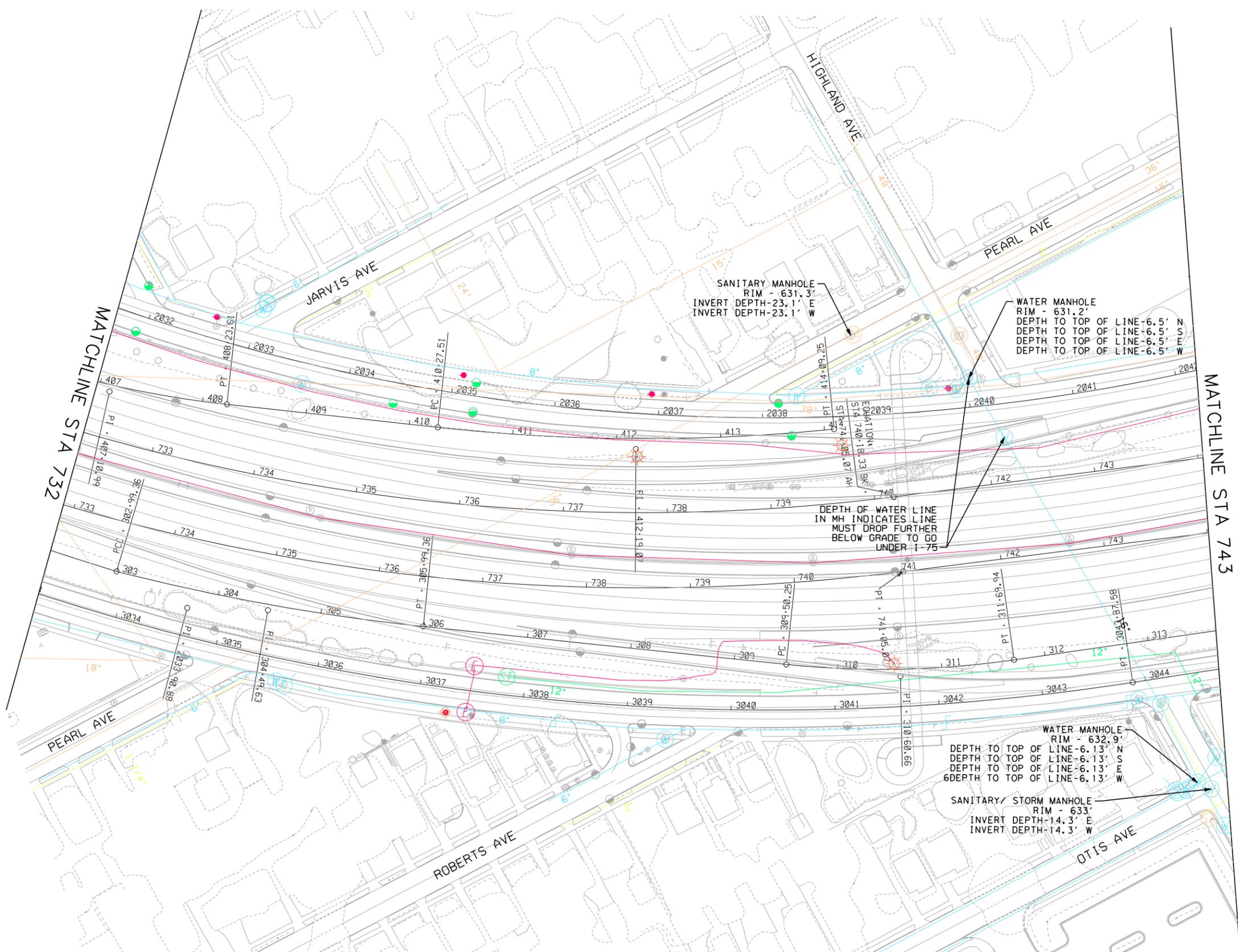
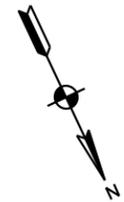
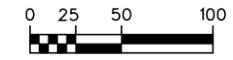
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\$FILES \$DATES \$TIMES \$USERS



\$FILES  
\$DATES  
\$TIMES  
\$USERS



**LEGEND**

PROPOSED ROW	---
EXISTING ROW	---
EDGE OF PAVEMENT	---
<b>FIBER OPTICS</b>	
VERIZON	TELE F01
DOT	TELE F02
AT&T	TELE F03
<b>TELEPHONE</b>	
AT&T	TELE3
<b>DUCTS</b>	
AT&T	DUCT3
<b>GAS LINES</b>	
CONSUMER'S ENERGY	GAS1
<b>ELECTRIC</b>	
DTE	ELEC1
DOT TRAFFIC	ELEC2
DOT STREETLIGHT	ELEC3
<b>CATV</b>	
COMCAST	CATV1
<b>WASTEWATER</b>	
HAZEL PARK	WS1
DETROIT	WS2
ROYAL OAK	WS3
FORCE MAIN	FM
COMBINED	CS
<b>SANITARY/STORM WATER</b>	
HAZEL PARK	SH1
DETROIT	SH2
ROYAL OAK	SH3
<b>STORM SEWER</b>	
HAZEL PARK	SS1
ROYAL OAK	SS3
ELECTRIC MANHOLE	E
WATER VALVE	V
FIRE HYDRANT	H
WATER METER	M
WATER MANHOLE	W
TRAFFIC SIGNAL	S
QUALITY LEVEL TRANSITION	Q
CATCH BASIN	C

SANITARY MANHOLE  
RIM - 631.3'  
INVERT DEPTH-23.1' E  
INVERT DEPTH-23.1' W

WATER MANHOLE  
RIM - 631.2'  
DEPTH TO TOP OF LINE-6.5' N  
DEPTH TO TOP OF LINE-6.5' S  
DEPTH TO TOP OF LINE-6.5' E  
DEPTH TO TOP OF LINE-6.5' W

DEPTH OF WATER LINE  
IN MH INDICATES LINE  
MUST DROP FURTHER  
BELOW GRADE TO GO  
UNDER I-75

WATER MANHOLE  
RIM - 632.9'  
DEPTH TO TOP OF LINE-6.13' N  
DEPTH TO TOP OF LINE-6.13' S  
DEPTH TO TOP OF LINE-6.13' E  
DEPTH TO TOP OF LINE-6.13' W

SANITARY/ STORM MANHOLE  
RIM - 633'  
INVERT DEPTH-14.3' E  
INVERT DEPTH-14.3' W

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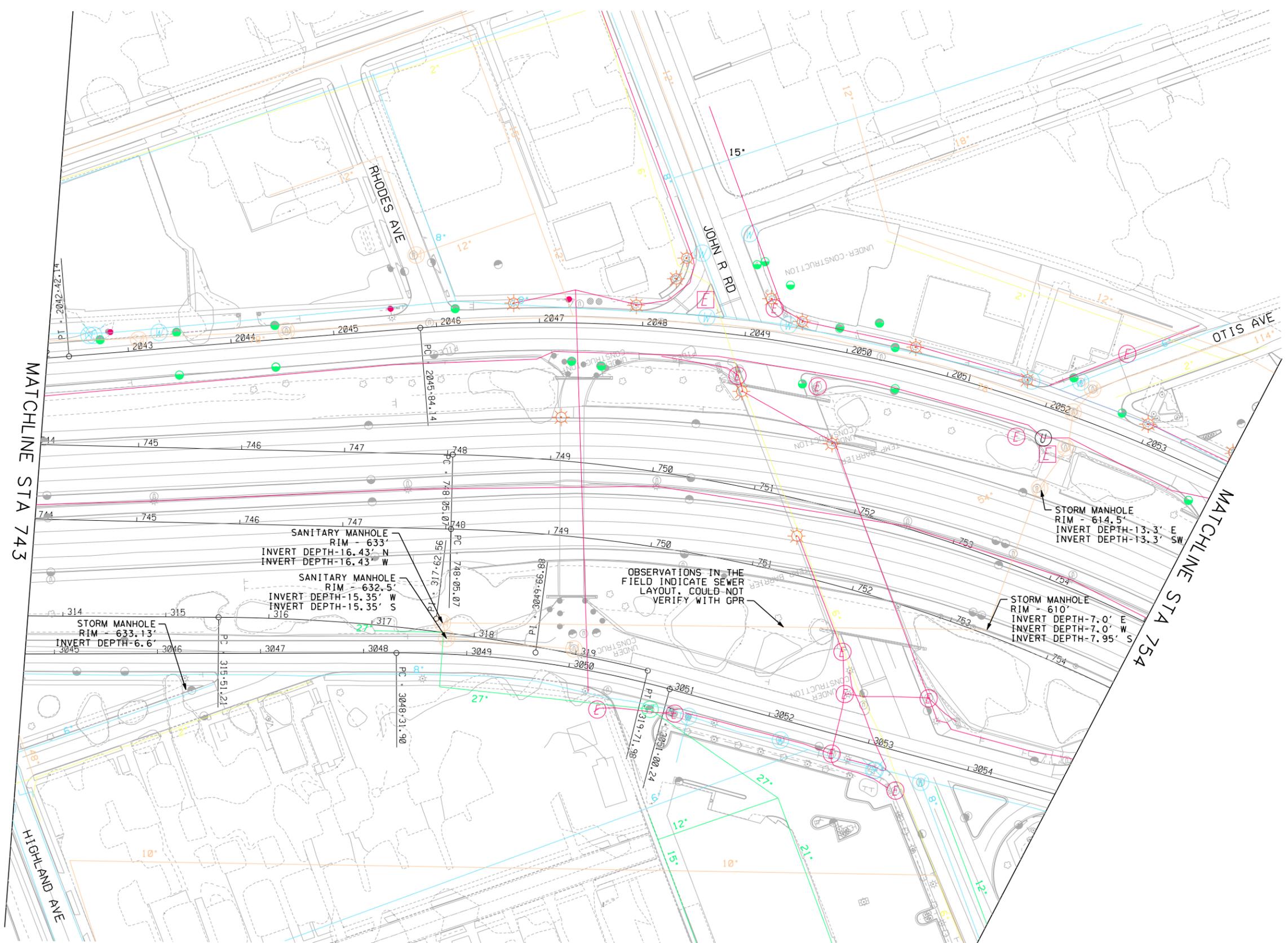
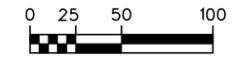
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I-75  
**UTILITY LAYOUT**  
SHEET 5 OF 25


\$FILES  
\$DATES  
\$TIMES  
\$USERS



**LEGEND**

PROPOSED ROW	---
EXISTING ROW	---
EDGE OF PAVEMENT	---
<b>FIBER OPTICS</b>	
VERIZON	TELE F01
DOT	TELE F02
AT&T	TELE F03
<b>TELEPHONE</b>	
AT&T	TELE3
<b>DUCTS</b>	
AT&T	DUCT3
<b>GAS LINES</b>	
CONSUMER'S ENERGY	GAS1
<b>ELECTRIC</b>	
DTE	ELEC1
DOT TRAFFIC	ELEC2
DOT	ELEC3
STREETLIGHT	ELEC3
<b>CATV</b>	
COMCAST	CATV1
<b>WASTEWATER</b>	
HAZEL PARK	WS1
DETROIT	WS2
ROYAL OAK	WS3
FORCE MAIN	FM
COMBINED	CS
<b>SANITARY/STORM WATER</b>	
HAZEL PARK	SS1
DETROIT	SS2
ROYAL OAK	SS3
<b>STORM SEWER</b>	
HAZEL PARK	ST1
ROYAL OAK	ST3
	ELECTRIC MANHOLE
	WATER MANHOLE
	VALVE
	FIRE HYDRANT
	POWER POLE
	TEL/CATV PEDESTAL
	MANHOLE
	SANITARY/STORM MH
	GAS VALVE
	UTILITY MANHOLE
	ELECTRIC HANDHOLE
	WATER VALVE
	FIRE WATER METER
	WATER MANHOLE
	TRAFFIC SIGNAL
	QUALITY LEVEL TRANSITION
	CATCH BASIN

MATCHLINE STA 743

MATCHLINE STA 754

SANITARY MANHOLE  
RIM - 633'  
INVERT DEPTH-16.43' N  
INVERT DEPTH-16.43' W

SANITARY MANHOLE  
RIM - 632.5'  
INVERT DEPTH-15.35' W  
INVERT DEPTH-15.35' S

STORM MANHOLE  
RIM - 633.13'  
INVERT DEPTH-6.6'

STORM MANHOLE  
RIM - 610'  
INVERT DEPTH-7.0' E  
INVERT DEPTH-7.0' W  
INVERT DEPTH-7.95' S

OBSERVATIONS IN THE FIELD INDICATE SEWER LAYOUT, COULD NOT VERIFY WITH GPR

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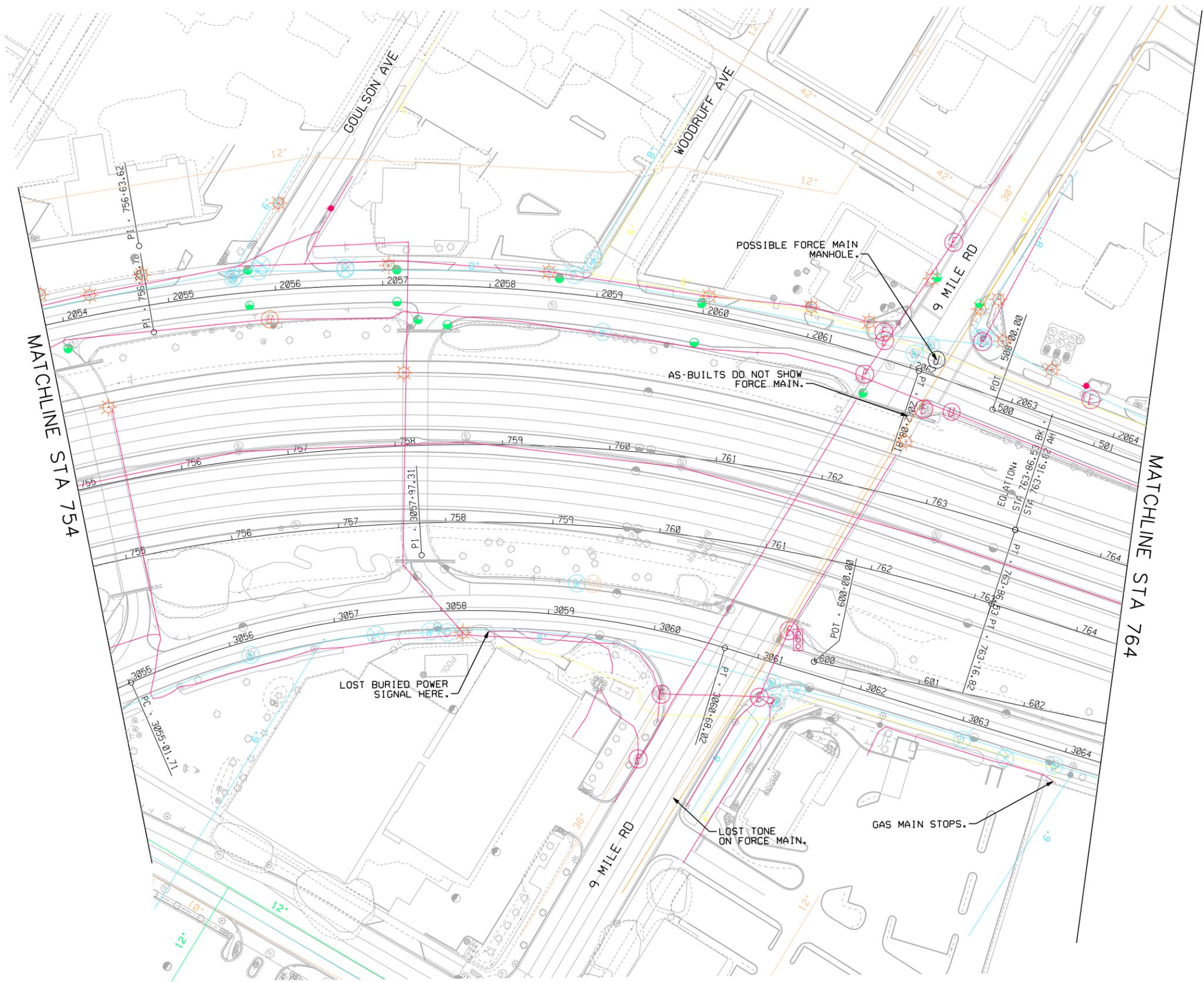
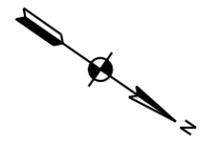
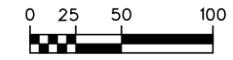
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**UTILITY LAYOUT**  
SHEET 6 OF 25


\$USER\$  
\$TIME\$  
\$DATE\$

\$FILE\$

\$FILES  
\$DATES  
\$TIMES  
\$USERS



**LEGEND**

PROPOSED ROW	---
EXISTING ROW	---
EDGE OF PAVEMENT	---
<b>FIBER OPTICS</b>	
VERIZON	TELE F01
DOT	TELE F02
AT&T	TELE F03
<b>TELEPHONE</b>	
AT&T	TELE3
<b>DUCTS</b>	
AT&T	DUCT3
<b>GAS LINES</b>	
CONSUMER'S ENERGY	GAS1
<b>ELECTRIC</b>	
DTE	ELEC1
DOT TRAFFIC	ELEC2
DOT STREETLIGHT	ELEC3
<b>CATV</b>	
COMCAST	CTV1
<b>WASTEWATER</b>	
HAZEL PARK	WS1
DETROIT	WS2
ROYAL OAK	WS3
FORCE MAIN	FM
COMBINED	CS
SANITARY/STORM	SW
<b>WATER</b>	
HAZEL PARK	WT1
DETROIT	WT2
ROYAL OAK	WT3
<b>STORM SEWER</b>	
HAZEL PARK	ST1
ROYAL OAK	ST3
⊕	ELECTRIC MANHOLE
⊗	WATER VALVE
⊙	FIRE HYDRANT
⊕	POWER POLE
⊗	TEL/CATV PEDESTAL
⊙	TELEPHONE MANHOLE
⊕	SANITARY/STORM MH
⊗	GAS VALVE
⊙	UTILITY MANHOLE
⊕	ELECTRIC HANDHOLE
⊗	WATER MANHOLE
⊙	TRAFFIC SIGNAL
⊕	QUALITY LEVEL TRANSITION
⊗	CATCH BASIN

\$USER\$  
\$TIME\$  
\$DATE\$

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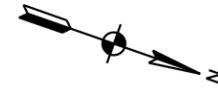
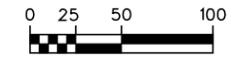
I-75  
**UTILITY LAYOUT**  
SHEET 7 OF 25

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\$FILES  
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\$USERS



MATCHLINE STA 764

MATCHLINE STA 775

**LEGEND**

- PROPOSED ROW ---
- EXISTING ROW ---
- EDGE OF PAVEMENT ---
- FIBER OPTICS**
- VERIZON TELE F01 ---
- DOT TELE F02 ---
- AT&T TELE F03 ---
- TELEPHONE**
- AT&T TELE3 ---
- DUCTS**
- AT&T DUCT3 ---
- GAS LINES**
- CONSUMER'S ENERGY GAS1 ---
- ELECTRIC**
- DTE ELEC1 ---
- DOT TRAFFIC/ELEC2 ---
- DOT STREETLIGHT ELEC3 ---
- CATV**
- COMCAST CATV1 ---
- WASTEWATER**
- HAZEL PARK WWS1 ---
- DETROIT WWS2 ---
- ROYAL OAK WWS3 ---
- FORCE MAIN**
- COMBINED CM ---
- SANITARY/STORM WATER
- HAZEL PARK S11 ---
- DETROIT S12 ---
- ROYAL OAK S13 ---
- STORM SEWER**
- HAZEL PARK S11 ---
- ROYAL OAK S13 ---
- ELECTRIC MANHOLE E
- WATER VALVE V
- FIRE HYDRANT H
- WATER METER M
- WATER MANHOLE W
- TRAFFIC SIGNAL S
- QUALITY LEVEL TRANSITION Q
- CATCH BASIN CB
- UTILITY MANHOLE U
- POWER POLE P
- TEL/CATV PEDESTAL T
- TELEPHONE MANHOLE T
- SANITARY/STORM MH S
- GAS VALVE G
- MANHOLE M
- PEDESTAL P
- LIGHT POLE L

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**UTILITY LAYOUT**  
SHEET 8 OF 25

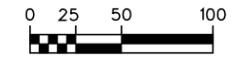
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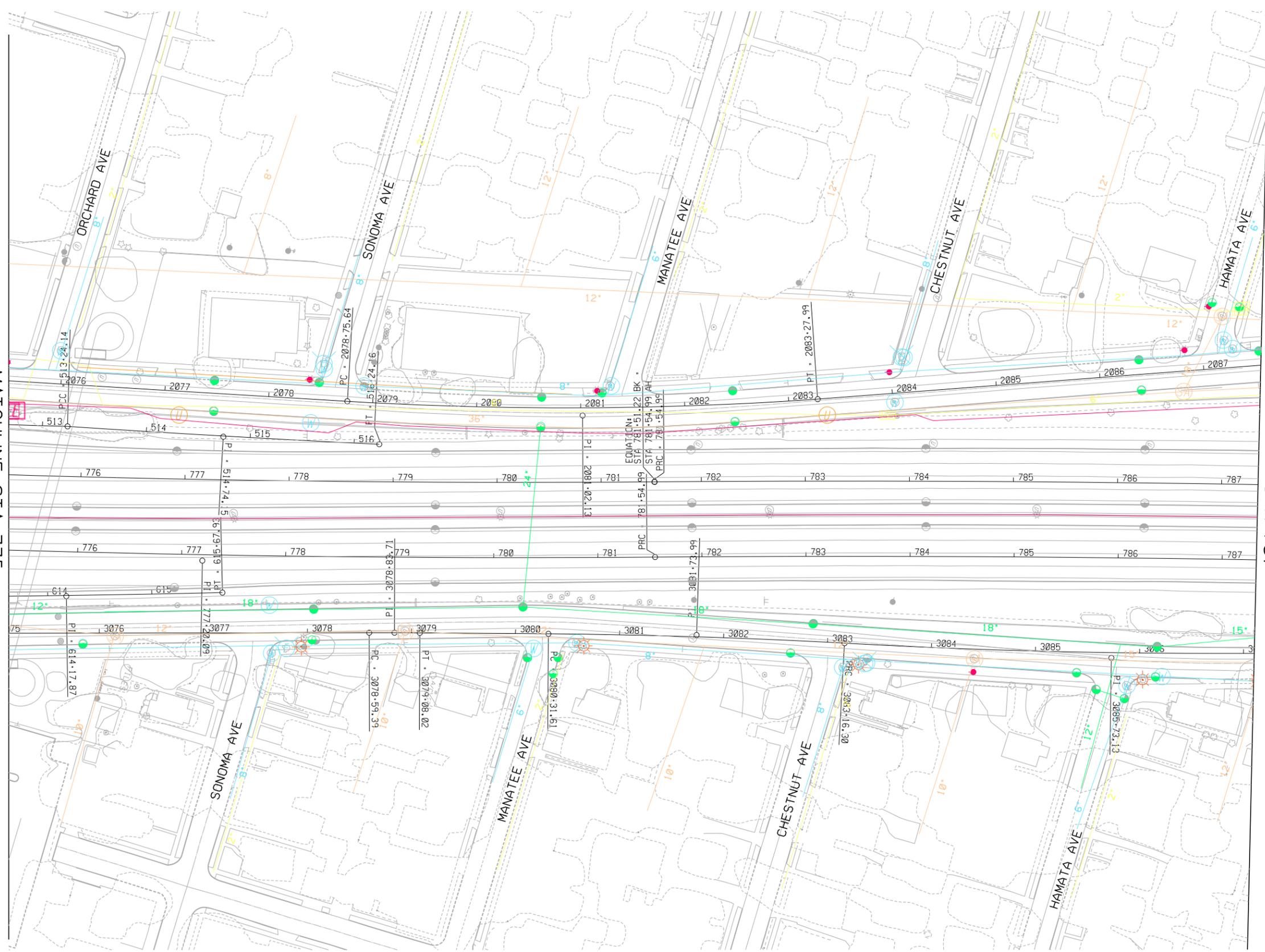
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\$DATES  
\$TIMES  
\$USERS



MATCHLINE STA 775

MATCHLINE STA 787



**LEGEND**

- PROPOSED ROW ---
- EXISTING ROW ---
- EDGE OF PAVEMENT ---
- FIBER OPTICS**
- VERIZON TELE F01 ---
- DOT TELE F02 ---
- AT&T TELE F03 ---
- TELEPHONE**
- AT&T TELE3 ---
- DUCTS**
- AT&T DUCT3 ---
- GAS LINES**
- CONSUMER'S ENERGY GAS1 ---
- ELECTRIC**
- DTE ELEC1 ---
- DOT TRAFFICELEC2 ---
- DOT ELEC3 ---
- CATV**
- COMCAST CATV ---
- WASTEWATER**
- HAZEL PARK WS1 ---
- DETROIT WS2 ---
- ROYAL OAK WS3 ---
- STORM SEWER**
- HAZEL PARK S11 ---
- ROYAL OAK S13 ---
- ELECTRIC MANHOLE E
- WATER MANHOLE W
- WATER VALVE V
- FIRE HYDRANT H
- WATER METER M
- WATER MANHOLE WM
- TRAFFIC SIGNAL S
- QUALITY LEVEL TRANSITION QL
- CATCH BASIN CB
- UTILITY MANHOLE U

NO.	DATE	REVISION DESCRIPTION	APP. BY



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46850 MAGELLAN DR  
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I-75  
**UTILITY LAYOUT**  
SHEET 9 OF 25

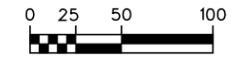
UTILITIES REPRESENTED TO LEVEL B ARE SHOWN WITH "B" IN PARENTHESES. UTILITIES REPRESENTED TO LEVEL C OR D ARE SHOWN WITH "C" OR "D" IN PARENTHESES.

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\$USERS

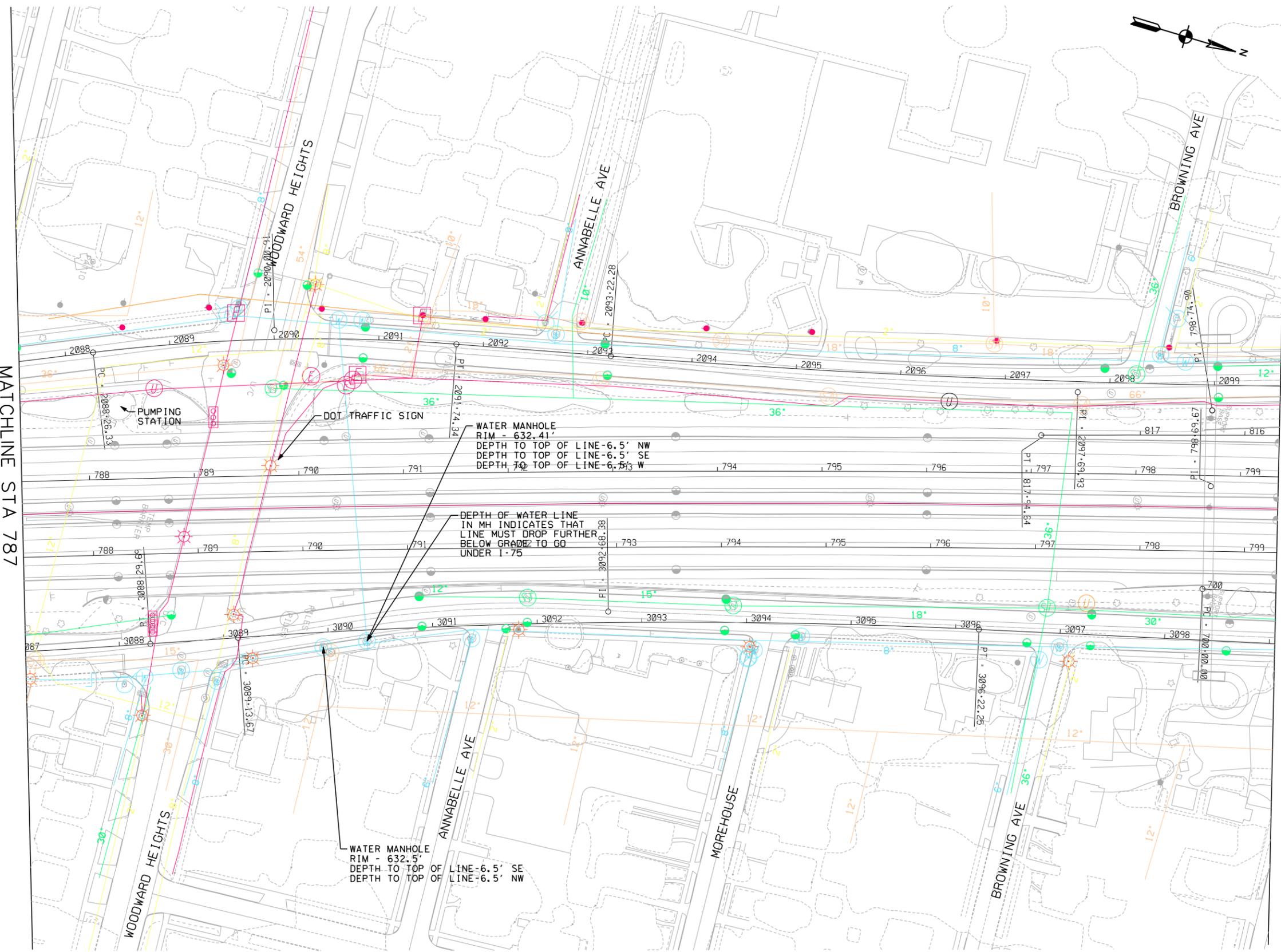


**LEGEND**

- PROPOSED ROW ---
- EXISTING ROW ---
- EDGE OF PAVEMENT ---
- FIBER OPTICS**
- VERIZON TELE F01 ---
- DOT TELE F02 ---
- AT&T TELE F03 ---
- TELEPHONE**
- AT&T TELE3 ---
- DUCTS**
- AT&T DUCT3 ---
- GAS LINES**
- CONSUMER'S ENERGY GAS1 ---
- ELECTRIC**
- DTE ELEC1 ---
- DOT TRAFFICELEC2 ---
- DOT STREETLIGHT ELEC3 ---
- CATV**
- COMCAST CATV1 ---
- WASTEWATER**
- HAZEL PARK WWS1 ---
- DETROIT WWS2 ---
- ROYAL OAK WWS3 ---
- FORCE MAIN FM ---
- COMBINED CS ---
- SANITARY/STORM WATER
- HAZEL PARK WWS1 ---
- DETROIT WWS2 ---
- ROYAL OAK WWS3 ---
- STORM SEWER**
- HAZEL PARK SWS1 ---
- ROYAL OAK SWS2 ---
- ROYAL OAK SWS3 ---
- HAZEL PARK SWS1 ---
- ROYAL OAK SWS2 ---
- ROYAL OAK SWS3 ---
- ELECTRIC MANHOLE E
- WATER VALVE V
- FIRE HYDRANT H
- WATER METER M
- WATER MANHOLE W
- TRAFFIC SIGNAL S
- QUALITY LEVEL TRANSITION Q
- CATCH BASIN C
- LIGHT POLE L
- POWER POLE P
- TEL/CATV PEDESTAL T
- TELEPHONE MANHOLE T
- SANITARY/STORM MH S
- GAS VALVE G
- UTILITY MANHOLE U

MATCHLINE STA 787

MATCHLINE STA 799



WATER MANHOLE  
RIM - 632.41'  
DEPTH TO TOP OF LINE - 6.5' NW  
DEPTH TO TOP OF LINE - 6.5' SE  
DEPTH TO TOP OF LINE - 6.5' W

DEPTH OF WATER LINE  
IN MH INDICATES THAT  
LINE MUST DROP FURTHER  
BELOW GRADE TO GO  
UNDER I-75

WATER MANHOLE  
RIM - 632.5'  
DEPTH TO TOP OF LINE - 6.5' SE  
DEPTH TO TOP OF LINE - 6.5' NW

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I-75  
**UTILITY LAYOUT**

SHEET 10 OF 25


\$DATE\$ \$TIME\$ \$USER\$

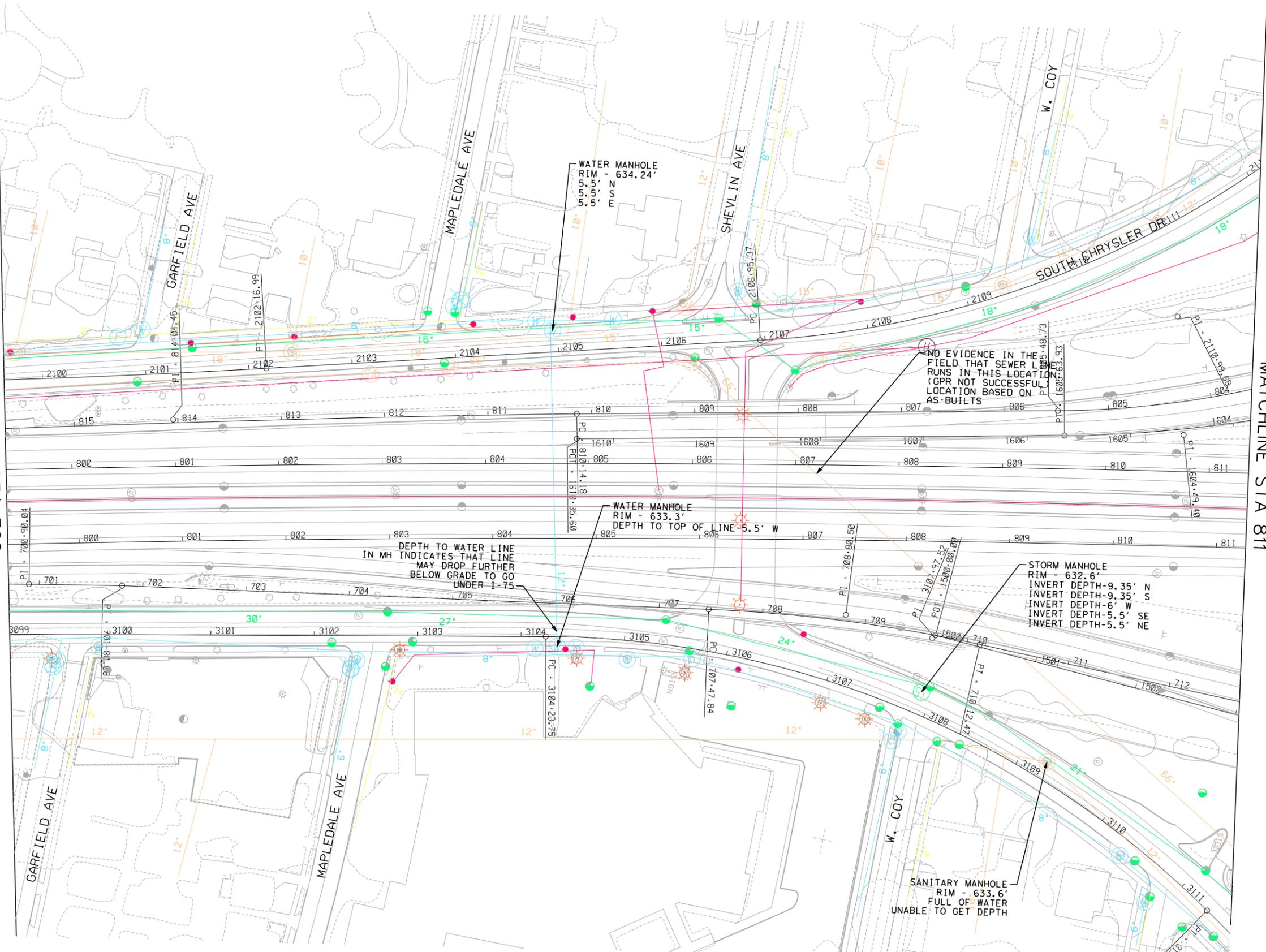
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\$TIMES  
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MATCHLINE STA 799

MATCHLINE STA 811



**LEGEND**

- PROPOSED ROW ---
- EXISTING ROW ---
- EDGE OF PAVEMENT ---
- FIBER OPTICS**
- VERIZON TELE F01 ---
- DOT TELE F02 ---
- AT&T TELE F03 ---
- TELEPHONE**
- AT&T TELE3 ---
- DUCTS**
- AT&T DUCT3 ---
- GAS LINES**
- CONSUMER'S ENERGY GAS1 ---
- ELECTRIC**
- DTE ELEC1 ---
- DOT TRAFFIC/ELEC2 ---
- DOT STREETLIGHT ELEC3 ---
- CATV**
- COMCAST CATV ---
- WASTEWATER**
- HAZEL PARK WWS1 ---
- DETROIT WWS2 ---
- ROYAL OAK WWS3 ---
- STORM SEWER**
- HAZEL PARK S11 ---
- ROYAL OAK S13 ---
- ELECTRIC MANHOLE E
- LIGHT POLE L
- POWER POLE P
- TEL/CATV PEDESTAL TELEPHONE MANHOLE T
- SANITARY/STORM MH S
- GAS VALVE G
- UTILITY MANHOLE U
- ELECTRIC HANDHOLE E
- WATER VALVE V
- FIRE HYDRANT F
- WATER METER M
- WATER MANHOLE W
- TRAFFIC SIGNAL S
- QUALITY LEVEL TRANSITION Q
- CATCH BASIN C

WATER MANHOLE  
RIM - 634.24'  
5.5' N  
5.5' S  
5.5' E

NO EVIDENCE IN THE FIELD THAT SEWER LINE RUNS IN THIS LOCATION (GPR NOT SUCCESSFUL) LOCATION BASED ON AS-BUILTS

WATER MANHOLE  
RIM - 633.3'  
DEPTH TO TOP OF LINE - 5.5' W

DEPTH TO WATER LINE IN MH INDICATES THAT LINE MAY DROP FURTHER BELOW GRADE TO GO UNDER I-75

STORM MANHOLE  
RIM - 632.6'  
INVERT DEPTH - 9.35' N  
INVERT DEPTH - 9.35' S  
INVERT DEPTH - 6' W  
INVERT DEPTH - 5.5' SE  
INVERT DEPTH - 5.5' NE

SANITARY MANHOLE  
RIM - 633.6'  
FULL OF WATER  
UNABLE TO GET DEPTH

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I-75  
**UTILITY LAYOUT**  
SHEET 11 OF 25


\$FILES  
\$DATES  
\$TIMES  
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\$DATE\$  
\$TIME\$  
\$USER\$

SEE SHEET 24

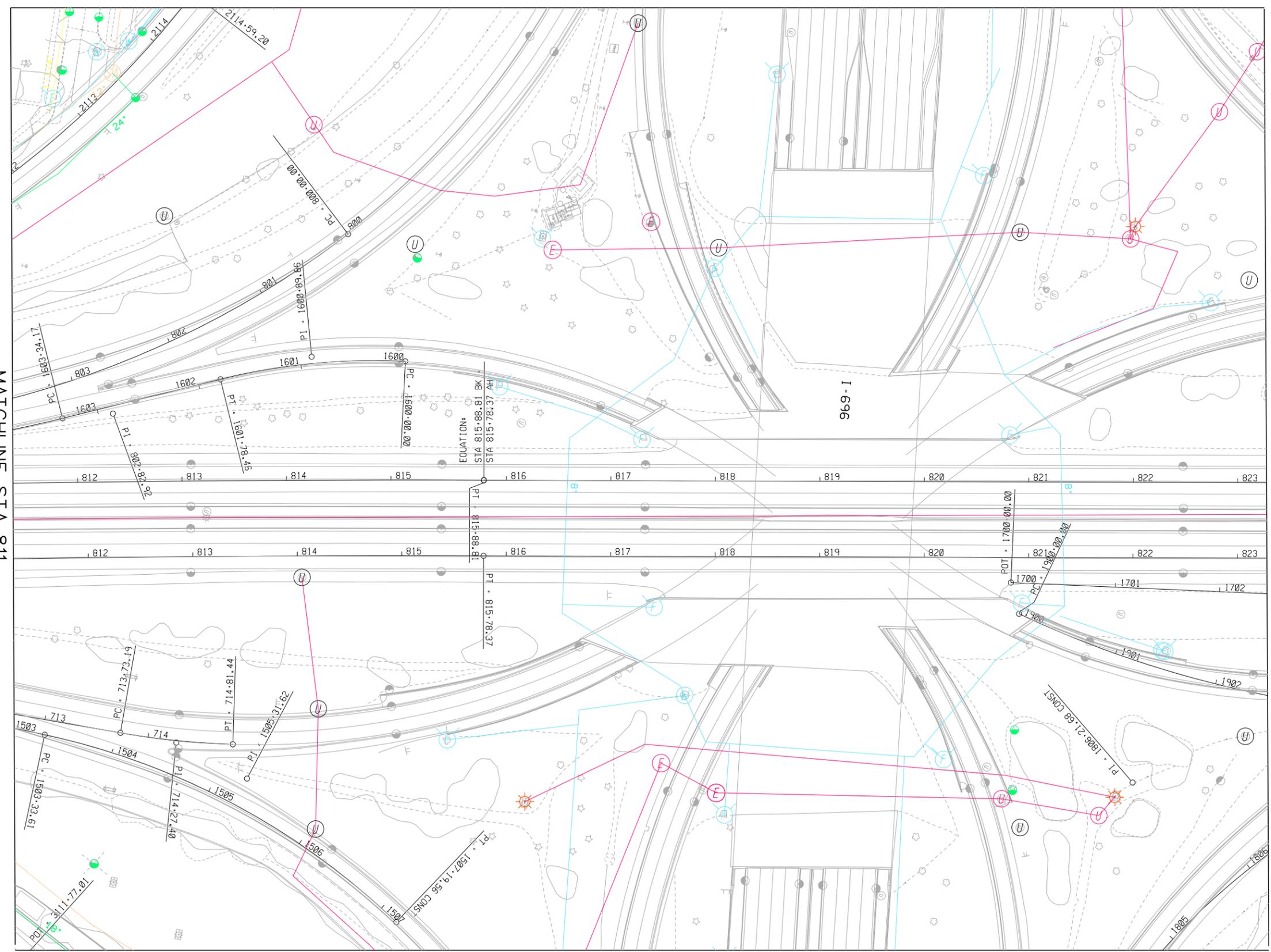


LEGEND

- PROPOSED ROW ---
- EXISTING ROW ---
- EDGE OF PAVEMENT ---
- FIBER OPTICS
- VERIZON --- TELE F01
- DOT --- TELE F02
- AT&T --- TELE F03
- TELEPHONE --- TELE3
- DUCTS --- DUCT3
- GAS LINES --- GAS
- CONSUMER'S ENERGY --- ELEC1
- ELECTRIC --- ELEC2
- DTE --- ELEC3
- DOT TRAFFIC --- CATV
- DOT STREETLIGHT --- CATV
- COMCAST --- WASTEWATER
- WASTEWATER --- WWT
- HAZEL PARK --- WM1
- DETROIT --- WM2
- ROYAL OAK --- WM3
- STORM SEWER --- ST1
- ROYAL OAK --- ST2
- ST1
- ST2
- ELECTRIC MANHOLE E
- MANHOLE M
- LIGHT POLE L
- POWER POLE P
- TEL/CATV PEDESTAL TELEPHONE MANHOLE T
- SA S
- ST S
- GAS VALVE V
- UTILITY MANHOLE U
- ELECTRIC HANDHOLE E
- WATER VALVE V
- FIRE HYDRANT H
- WATER METER M
- WATER MANHOLE W
- TRAFFIC SIGNAL S
- QUALITY LEVEL TRANSITION Q
- CATCH BASIN C

MATCHLINE STA 811

MATCHLINE STA 823



SEE SHEET 24

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NO.	DATE	REVISION	DESCRIPTION	APP. BY



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I-75  
UTILITY LAYOUT  
SHEET 12 OF 25


\$FILE\$ \$DATE\$ \$TIME\$ \$USER\$

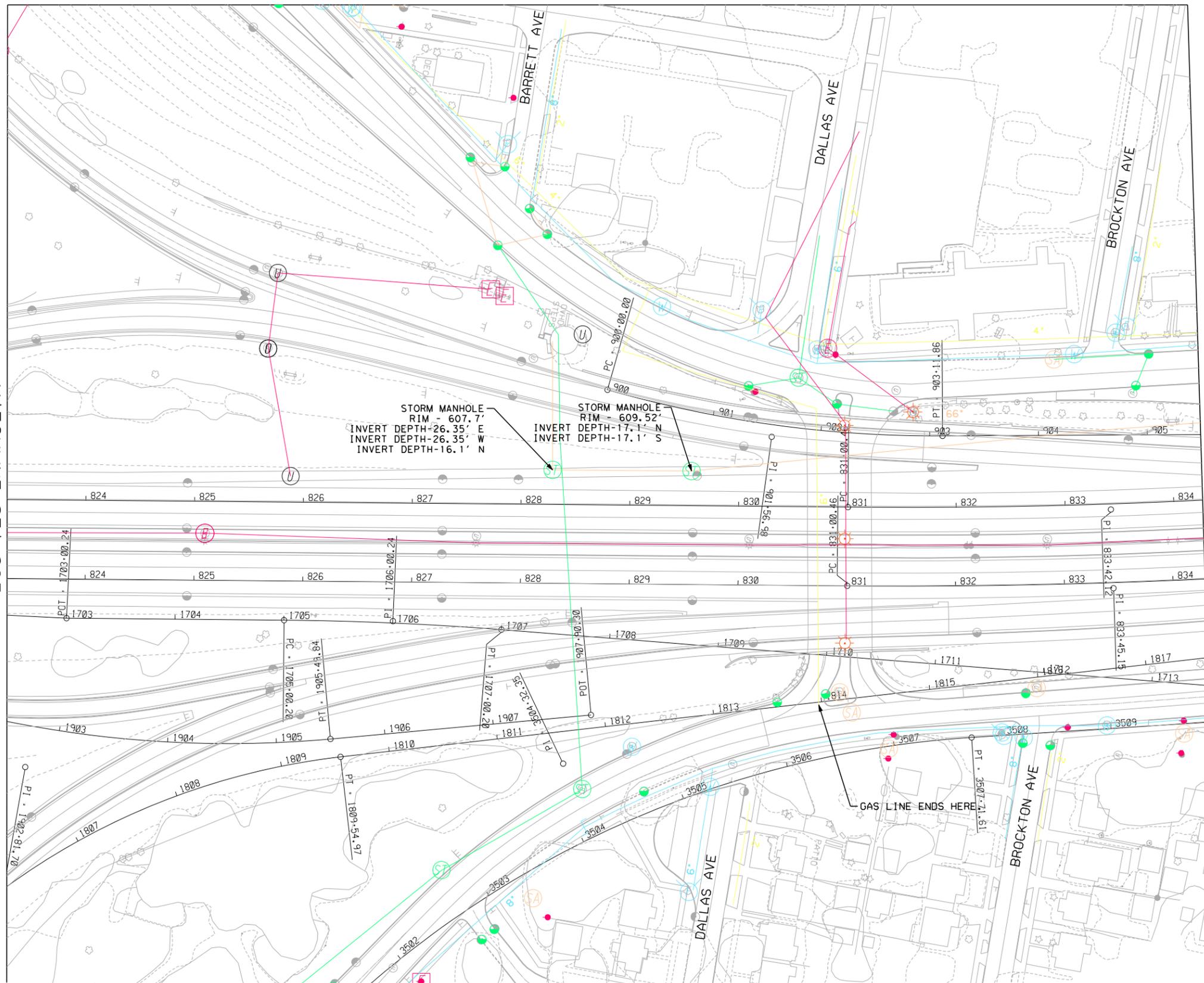
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\$TIME\$  
\$USER\$



SEE SHEET 23

MATCHLINE STA 823

MATCHLINE STA 834



SEE SHEET 25

**LEGEND**

- PROPOSED ROW ---
- EXISTING ROW ---
- EDGE OF PAVEMENT ---
- FIBER OPTICS**
- VERIZON TELE F01 ---
- DOT TELE F02 ---
- AT&T TELE F03 ---
- TELEPHONE**
- AT&T TELE3 ---
- DUCTS**
- AT&T DUCT3 ---
- GAS LINES**
- CONSUMER'S ENERGY GAS1 ---
- ELECTRIC**
- DTE ELEC1 ---
- DOT TRAFFIC ELEC2 ---
- DOT STREETLIGHT ELEC3 ---
- CATV**
- COMCAST CTV1 ---
- WASTEWATER**
- HAZEL PARK WM1 ---
- DETROIT WM2 ---
- ROYAL OAK WM3 ---
- STORM SEWER**
- HAZEL PARK ST1 ---
- ROYAL OAK ST3 ---
- ELECTRIC MANHOLE E
- HANDHOLE H
- WATER VALVE W
- FIRE HYDRANT F
- POWER POLE P
- TEL/CATV PEDESTAL T
- TELEPHONE MANHOLE T
- SANITARY/STORM MH S
- GAS VALVE G
- UTILITY MANHOLE U
- CATCH BASIN C
- TRAFFIC SIGNAL S
- QUALITY LEVEL TRANSITION Q

NO.	DATE	REVISION DESCRIPTION	APP. BY



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I-75  
**UTILITY LAYOUT**  
 SHEET 13 OF 25

UTILITIES REPRESENTED TO LEVEL B ARE SHOWN WITH "B" IN PARENTHESES. UTILITIES REPRESENTED TO LEVEL C OR D ARE SHOWN WITH "C" OR "D" IN PARENTHESES.

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\$DATES  
\$TIMES  
\$USERS



MATCHLINE STA 847

MATCHLINE STA 858

**LEGEND**

- PROPOSED ROW ---
- EXISTING ROW ---
- EDGE OF PAVEMENT ---
- FIBER OPTICS**
- VERIZON TELE F01 ---
- DOT TELE F02 ---
- AT&T TELE F03 ---
- TELEPHONE**
- AT&T TELE3 ---
- DUCTS**
- AT&T DUCT3 ---
- GAS LINES**
- CONSUMER'S ENERGY GAS1 ---
- ELECTRIC**
- DTE ELEC1 ---
- DOT TRAFFIC/ELEC2 ---
- DOT STREETLIGHT ELEC3 ---
- CATV**
- COMCAST CATV ---
- WASTEWATER**
- HAZEL PARK WWS1 ---
- DETROIT WWS2 ---
- ROYAL OAK WWS3 ---
- STORM SEWER**
- HAZEL PARK S11 ---
- ROYAL OAK S13 ---
- ELECTRIC MANHOLE E
- WATER VALVE V
- FIRE HYDRANT H
- WATER METER M
- WATER MANHOLE W
- TRAFFIC SIGNAL S
- QUALITY LEVEL TRANSITION Q
- CATCH BASIN C
- UTILITY MANHOLE U

NO.	DATE	REVISION DESCRIPTION	APP. BY



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I-75  
**UTILITY LAYOUT**  
SHEET 15 OF 25

UTILITIES REPRESENTED TO LEVEL B ARE SHOWN WITH "B" IN PARENTHESES. UTILITIES REPRESENTED TO LEVEL C OR D ARE SHOWN WITH "C" OR "D" IN PARENTHESES.

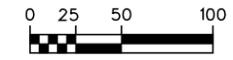
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\$USER\$  
\$TIME\$  
\$DATE\$

\$FILE\$

\$FILES  
\$DATES  
\$TIMES  
\$USERS



**LEGEND**

- PROPOSED ROW ---
- EXISTING ROW ---
- EDGE OF PAVEMENT ---
- FIBER OPTICS**
- VERIZON TELE F01 ---
- DOT TELE F02 ---
- AT&T TELE F03 ---
- TELEPHONE**
- AT&T TELE3 ---
- DUCTS**
- AT&T DUCT3 ---
- GAS LINES**
- CONSUMER'S ENERGY GAS1 ---
- ELECTRIC**
- DTE ELEC1 ---
- DOT TRAFFIC/ELEC2 ---
- DOT STREETLIGHT ELEC3 ---
- CATV**
- COMCAST CATV1 ---
- WASTEWATER**
- HAZEL PARK WWS1 ---
- DETROIT WWS2 ---
- ROYAL OAK WWS3 ---
- STORM SEWER**
- HAZEL PARK S11 ---
- ROYAL OAK S13 ---
- ELECTRIC MANHOLE E
- LIGHT POLE L
- POWER POLE P
- TEL/CATV PEDESTAL T
- TELEPHONE MANHOLE T
- SANITARY/STORM MH S
- GAS VALVE G
- UTILITY MANHOLE U
- ELECTRIC HANDHOLE E
- WATER VALVE V
- FIRE HYDRANT F
- WATER METER M
- WATER MANHOLE W
- TRAFFIC SIGNAL S
- QUALITY LEVEL TRANSITION Q
- CATCH BASIN C

MATCHLINE STA 858

MATCHLINE STA 870



NO.	DATE	REVISION DESCRIPTION	APP. BY



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I-75  
**UTILITY LAYOUT**  
SHEET 16 OF 25

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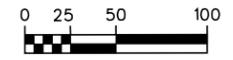
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\$USERS\$  
\$TIMES\$  
\$DATES\$

\$FILES\$

\$FILES  
\$DATES  
\$TIMES  
\$USERS



**LEGEND**

- PROPOSED ROW ---
- EXISTING ROW ---
- EDGE OF PAVEMENT ---
- FIBER OPTICS**
- VERIZON TELE F01 ---
- DOT TELE F02 ---
- AT&T TELE F03 ---
- TELEPHONE**
- AT&T TELE3 ---
- DUCTS**
- AT&T DUCT3 ---
- GAS LINES**
- CONSUMER'S ENERGY GAS1 ---
- ELECTRIC**
- DTE ELEC1 ---
- DOT TRAFFIC ELEC2 ---
- DOT STREETLIGHT ELEC3 ---
- COMCAST CATV ---
- WASTEWATER**
- HAZEL PARK S11 ---
- DETROIT S12 ---
- ROYAL OAK S13 ---
- FORCE MAIN FM ---
- COMBINED CS ---
- SANITARY/STORM WATER
- HAZEL PARK WH1 ---
- DETROIT WH2 ---
- ROYAL OAK WH3 ---
- STORM SEWER**
- HAZEL PARK S11 ---
- ROYAL OAK S13 ---
- ELECTRIC MANHOLE ⊗
- LIGHT POLE ⊗
- POWER POLE ⊗
- TEL/CATV PEDESTAL TELEPHONE ⊗
- MANHOLE SANITARY/STORM MH ⊗
- UTILITY MANHOLE ⊗
- ELECTRIC HANDHOLE VALVE ⊗
- FIRE HYDRANT ⊗
- WATER METER ⊗
- WATER MANHOLE ⊗
- TRAFFIC SIGNAL ⊗
- QUALITY LEVEL TRANSITION ⊗
- CATCH BASIN ⊗



MATCHLINE STA 870

MATCHLINE STA 882

\$FILES \$DATES \$TIMES \$USERS

\$FILES

NO.	DATE	REVISION	DESCRIPTION	APP. BY



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I-75  
**UTILITY LAYOUT**  
SHEET 17 OF 25

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\$FILES  
\$DATES  
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\$USERS



**LEGEND**

- PROPOSED ROW ---
- EXISTING ROW ---
- EDGE OF PAVEMENT ---
- FIBER OPTICS
- VERIZON TELE F01 ---
- DOT TELE F02 ---
- AT&T TELE F03 ---
- TELEPHONE TELE3 ---
- DUCTS
- AT&T DUCT3 ---
- GAS LINES
- CONSUMER'S ENERGY GAS1 ---
- ELECTRIC
- DTE ELEC1 ---
- DOT TRAFFICELEC2 ---
- DOT ELEC3 ---
- STREETLIGHT CATV ---
- COMCAST CATV1 ---
- WASTEWATER
- HAZEL PARK W1 ---
- DETROIT W2 ---
- ROYAL OAK W3 ---
- STORM SEWER
- HAZEL PARK S11 ---
- ROYAL OAK S13 ---
- ELECTRIC MANHOLE E
- WATER MANHOLE W
- LIGHT POLE L
- FIRE VALVE F
- POWER POLE P
- HYDRANT H
- TEL/CATV PEDESTAL T
- WATER METER M
- TELEPHONE MANHOLE T
- WATER MANHOLE W
- SANITARY/STORM MH S
- TRAFFIC SIGNAL S
- GAS VALVE G
- QUALITY LEVEL TRANSITION Q
- UTILITY MANHOLE U
- CATCH BASIN C



MATCHLINE STA 882

MATCHLINE STA 894

\$USER\$  
\$TIME\$  
\$DATE\$

\$FILES\$

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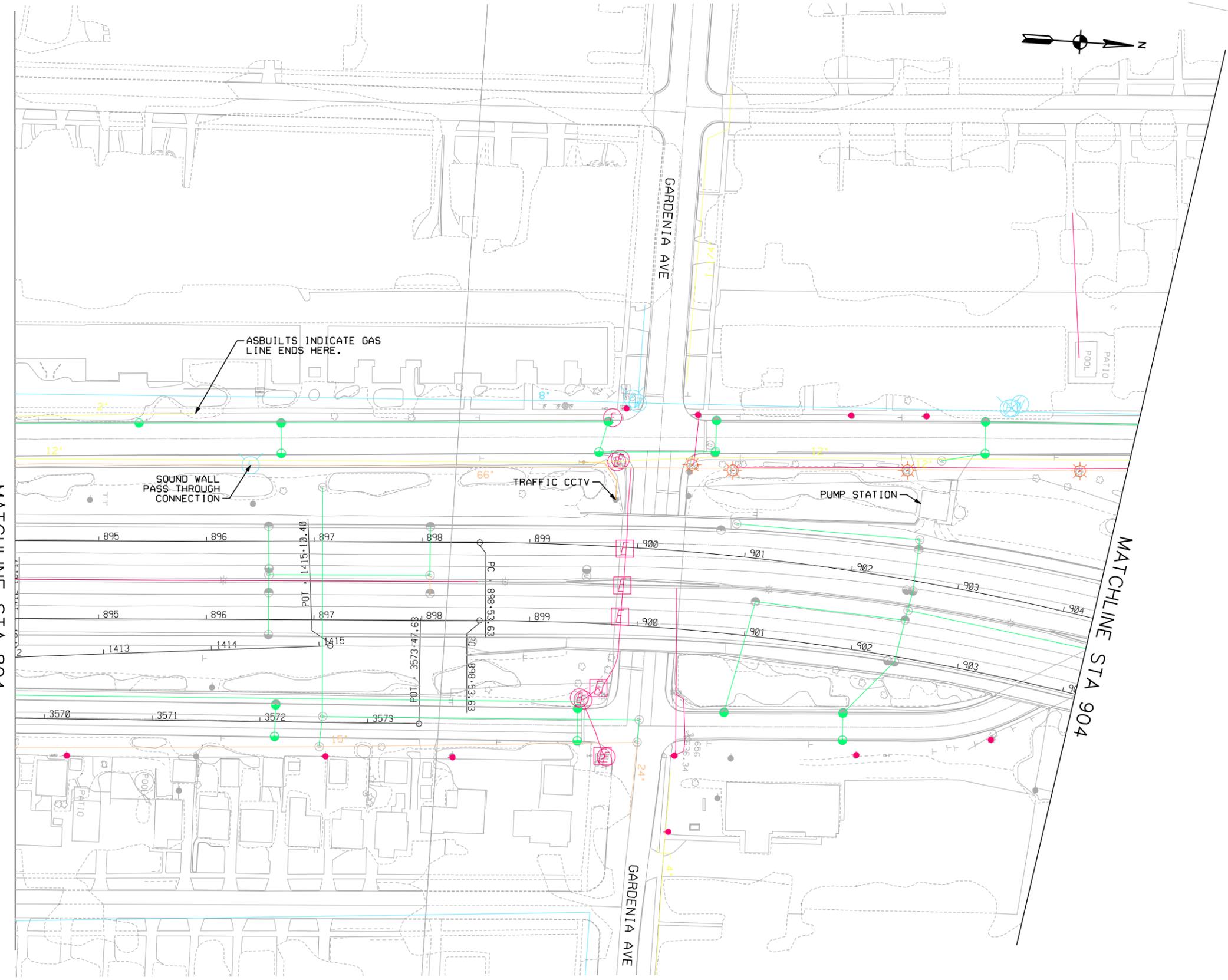
I-75  
**UTILITY LAYOUT**  
SHEET 18 OF 25


\$FILES  
\$DATES  
\$TIMES  
\$USERS



**LEGEND**

- PROPOSED ROW ————
- EXISTING ROW ————
- EDGE OF PAVEMENT ————
- FIBER OPTICS**
- VERIZON TELE F01 ————
- DOT TELE F02 ————
- AT&T TELE F03 ————
- TELEPHONE**
- AT&T TELE3 ————
- DUCTS**
- AT&T DUCT3 ————
- GAS LINES**
- CONSUMER'S ENERGY GAS1 ————
- ELECTRIC**
- DTE ELEC1 ————
- DOT TRAFFIC ELEC2 ————
- DOT STREETLIGHT ELEC3 ————
- CATV**
- COMCAST CATV1 ————
- WASTEWATER**
- HAZEL PARK WWS1 ————
- DETROIT WWS2 ————
- ROYAL OAK WWS3 ————
- STORM SEWER**
- HAZEL PARK ST1 ————
- ROYAL OAK ST3 ————
- ELECTRIC MANHOLE (E) ————
- MANHOLE (M) ————
- LIGHT POLE (LP) ————
- POWER POLE (PP) ————
- TEL/CATV PEDESTAL (T) ————
- TELEPHONE MANHOLE (TM) ————
- SANITARY/STORM MH (SM) ————
- GAS VALVE (GV) ————
- UTILITY MANHOLE (UM) ————
- ELECTRIC HANDHOLE (EH) ————
- WATER VALVE (WV) ————
- FIRE HYDRANT (FH) ————
- WATER METER (WM) ————
- WATER MANHOLE (WMA) ————
- TRAFFIC SIGNAL (TS) ————
- QUALITY LEVEL TRANSITION (QLT) ————
- CATCH BASIN (CB) ————



MATCHLINE STA 894

MATCHLINE STA 904

\$DATE\$ \$TIME\$ \$USER\$

\$FILES\$

NO.	DATE	REVISION DESCRIPTION	APP. BY



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I-75  
**UTILITY LAYOUT**  
SHEET 19 OF 25

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\$FILES  
\$DATES  
\$TIMES  
\$USERS



**LEGEND**

- PROPOSED ROW ---
- EXISTING ROW ---
- EDGE OF PAVEMENT ---
- FIBER OPTICS**
- VERIZON TELE F01 ---
- DOT TELE F02 ---
- AT&T TELE F03 ---
- TELEPHONE**
- AT&T TELE3 ---
- DUCTS**
- AT&T DUCT3 ---
- GAS LINES**
- CONSUMER'S GAS1 ---
- ENERGY **ELECTRIC**
- DTE ELEC1 ---
- DOT TRAFFICELEC2 ---
- DOT ELEC3 ---
- STREETLIGHT **CATV**
- COMCAST CATV1 ---
- WASTEWATER**
- HAZEL PARK WWS1 ---
- DETROIT WWS2 ---
- ROYAL OAK WWS3 ---
- STORM SEWER**
- HAZEL PARK ST1 ---
- ROYAL OAK ST3 ---
- ELECTRIC**
- MANHOLE (E) E
- LIGHT POLE (L) L
- POWER POLE (P) P
- TEL/CATV PEDESTAL (T) T
- TELEPHONE MANHOLE (TM) TM
- SANITARY/STORM MH (SM) SM
- GAS VALVE (GV) GV
- UTILITY MANHOLE (U) U
- ELECTRIC**
- HANDHOLE (EH) EH
- WATER VALVE (WV) WV
- FIRE HYDRANT (FH) FH
- WATER METER (WM) WM
- WATER MANHOLE (W) W
- TRAFFIC SIGNAL (TS) TS
- QUALITY LEVEL TRANSITION (QLT) QLT
- CATCH BASIN (CB) CB



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\$TIMES  
\$DATES

\$FILES

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I-75  
**UTILITY LAYOUT**  
SHEET 21 OF 25

UTILITIES REPRESENTED TO LEVEL B ARE SHOWN WITH "B" IN PARENTHESES. UTILITIES REPRESENTED TO LEVEL C OR D ARE SHOWN WITH "C" OR "D" IN PARENTHESES.

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\$TIMES  
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SEE SHEET 22

SEE SHEET 13



**LEGEND**

PROPOSED ROW	---
EXISTING ROW	---
EDGE OF PAVEMENT	---
<b>FIBER OPTICS</b>	
VERIZON	---
DOT	---
AT&T	---
<b>TELEPHONE</b>	
AT&T	---
<b>DUCTS</b>	
AT&T	---
<b>GAS LINES</b>	
CONSUMER'S ENERGY	---
<b>ELECTRIC</b>	
DTE	---
DOT TRAFFIC	---
DOT	---
STREETLIGHT	---
<b>CATV</b>	
COMCAST	---
<b>WASTEWATER</b>	
HAZEL PARK	---
DETROIT	---
ROYAL OAK	---
FORCE MAIN	---
COMBINED	---
SANITARY/STORM	---
<b>WATER</b>	
HAZEL PARK	---
DETROIT	---
ROYAL OAK	---
<b>STORM SEWER</b>	
HAZEL PARK	---
ROYAL OAK	---
(E) ELECTRIC MANHOLE	(E) ELECTRIC HANDHOLE
(L) LIGHT POLE	(W) WATER VALVE
(P) POWER POLE	(F) FIRE HYDRANT
(T) TEL/CATV PEDESTAL	(M) WATER METER
(T) TELEPHONE MANHOLE	(W) WATER MANHOLE
(S) SANITARY/STORM MH	(T) TRAFFIC SIGNAL
(G) GAS VALVE	(Q) QUALITY LEVEL TRANSITION
(U) UTILITY MANHOLE	(C) CATCH BASIN

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**UTILITY LAYOUT**  
SHEET 23 OF 25

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\$TIMES  
\$USERS

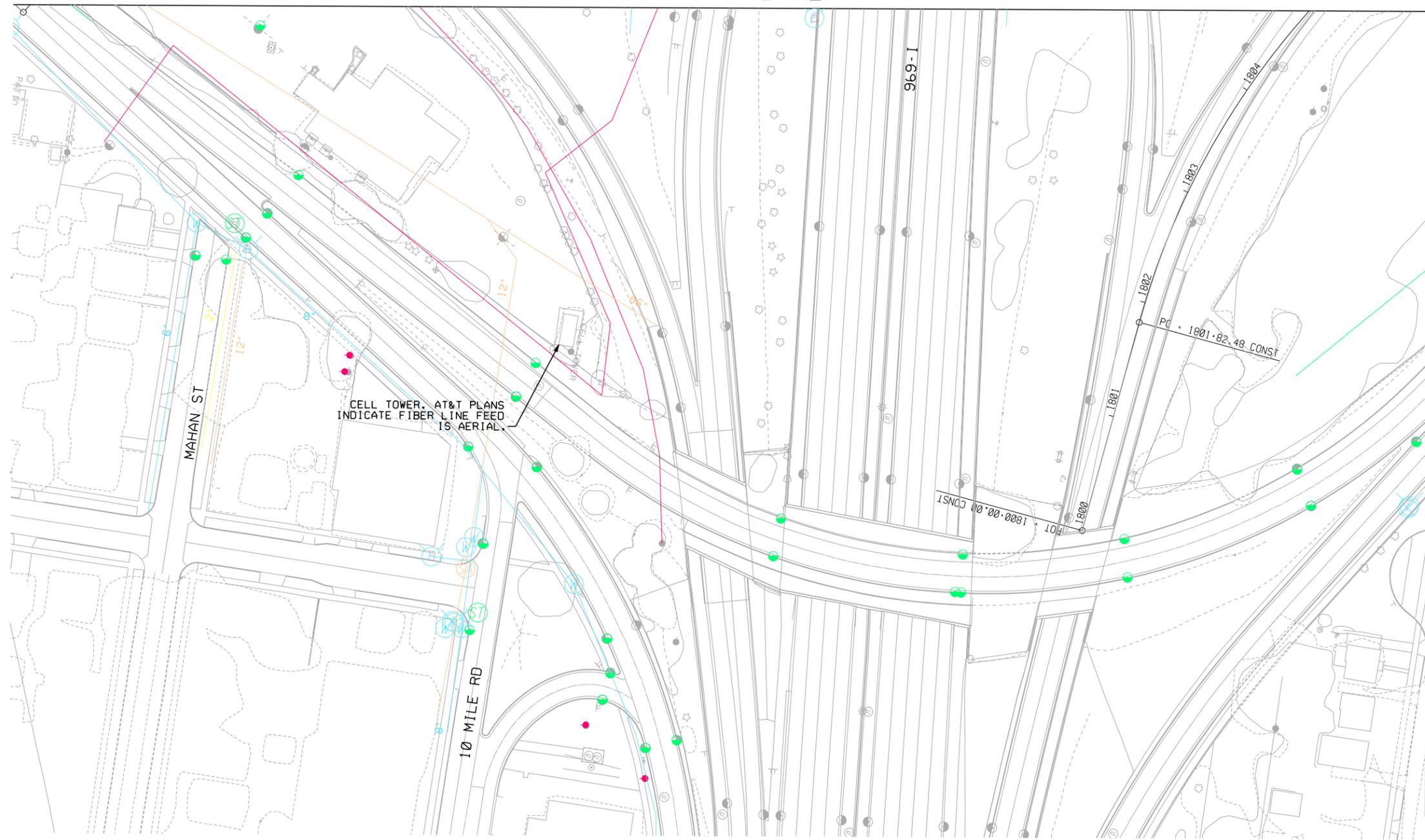


**LEGEND**

- PROPOSED ROW ---
- EXISTING ROW ---
- EDGE OF PAVEMENT ---
- FIBER OPTICS**
- VERIZON TELE F01 ---
- DOT TELE F02 ---
- AT&T TELE F03 ---
- TELEPHONE**
- AT&T TELE3 ---
- DUCTS**
- AT&T DUCT3 ---
- GAS LINES**
- CONSUMER'S ENERGY GAS1 ---
- ELECTRIC**
- DTE ELEC1 ---
- DOT TRAFFIC/ELEC2 ---
- DOT STREETLIGHT ELEC3 ---
- CATV**
- COMCAST CATV1 ---
- WASTEWATER**
- HAZEL PARK S11 ---
- DETROIT S12 ---
- ROYAL OAK S13 ---
- FORCE MAIN FM ---
- COMBINED CS ---
- SANITARY/STORM WATER
- HAZEL PARK W11 ---
- DETROIT W12 ---
- ROYAL OAK W13 ---
- STORM SEWER**
- HAZEL PARK S11 ---
- ROYAL OAK S13 ---
- ELECTRIC**
- MANHOLE E
- LIGHT POLE L
- POWER POLE P
- TEL/CATV PEDESTAL T
- TELEPHONE MANHOLE T
- SANITARY/STORM MH S
- GAS VALVE G
- UTILITY MANHOLE U
- ELECTRIC**
- MANHOLE E
- WATER VALVE V
- FIRE HYDRANT F
- WATER METER M
- WATER MANHOLE W
- TRAFFIC SIGNAL S
- QUALITY LEVEL TRANSITION Q
- CATCH BASIN C



SEE SHEET 12



SEE SHEET 25

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\$FILES

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**UTILITY LAYOUT**  
SHEET 24 OF 25

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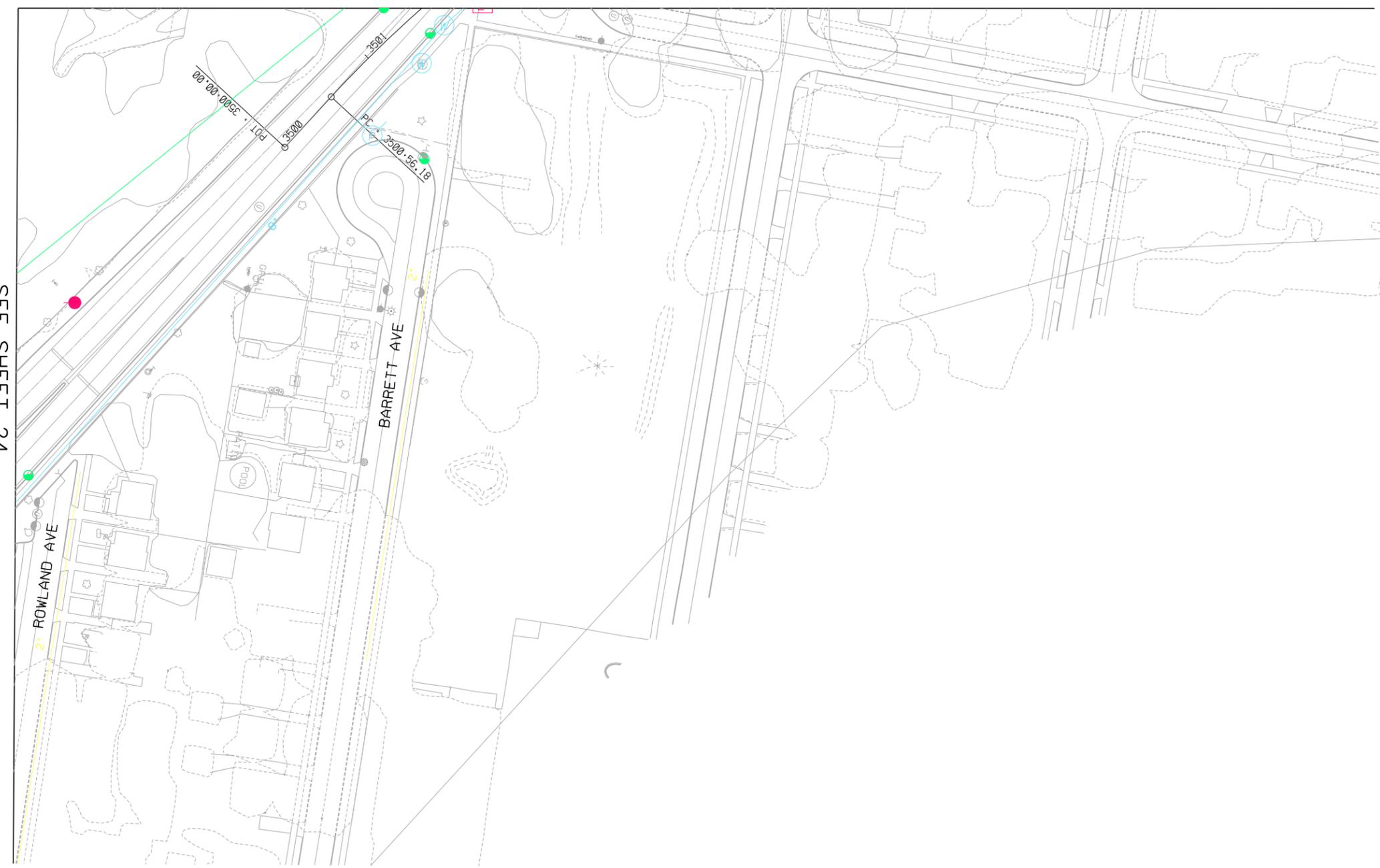
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\$TIME\$  
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SEE SHEET 13

SEE SHEET 24



**LEGEND**

PROPOSED ROW	---	FIBER OPTICS	---
EXISTING ROW	---	VERIZON TELE F01	---
EDGE OF PAVEMENT	---	DOT TELE F02	---
		AT&T TELE F03	---
		AT&T TELEPHONE TELE3	---
		AT&T DUCTS DUCT3	---
		CONSUMER'S ENERGY GAS1	---
		DOT TRAFFIC ELEC2	---
		DOT STREETLIGHT ELEC3	---
		COMCAST CATV CTV1	---
		HAZEL PARK WASTEWATER SS1	---
		DETROIT WASTEWATER SS2	---
		ROYAL OAK WASTEWATER SS3	---
		FORCE MAIN FM	---
		COMBINED SANITARY/STORM WATER	---
		HAZEL PARK WATER WM1	---
		DETROIT WATER WM2	---
		ROYAL OAK WATER WM3	---
		HAZEL PARK STORM SEWER ST1	---
		ROYAL OAK STORM SEWER ST3	---
		ELECTRIC MANHOLE	⊕
		WATER MANHOLE	⊕
		LIGHT POLE	⊕
		FIRE VALVE	⊕
		POWER POLE	⊕
		HYDRANT	⊕
		TEL/CATV PEDESTAL	⊕
		WATER METER	⊕
		TELEPHONE MANHOLE	⊕
		WATER MANHOLE	⊕
		SANITARY/STORM MH	⊕
		TRAFFIC SIGNAL	⊕
		GAS VALVE	⊕
		QUALITY LEVEL TRANSITION	⊕
		UTILITY MANHOLE	⊕
		CATCH BASIN	⊕

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UTILITY LAYOUT

SHEET 25 OF 25

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