

PLAN SUBMITTALS AND CHANGES	
BIDDING DOCUMENTS	
DATE	DESCRIPTION
6/5/2019	ISSUED FOR BIDS

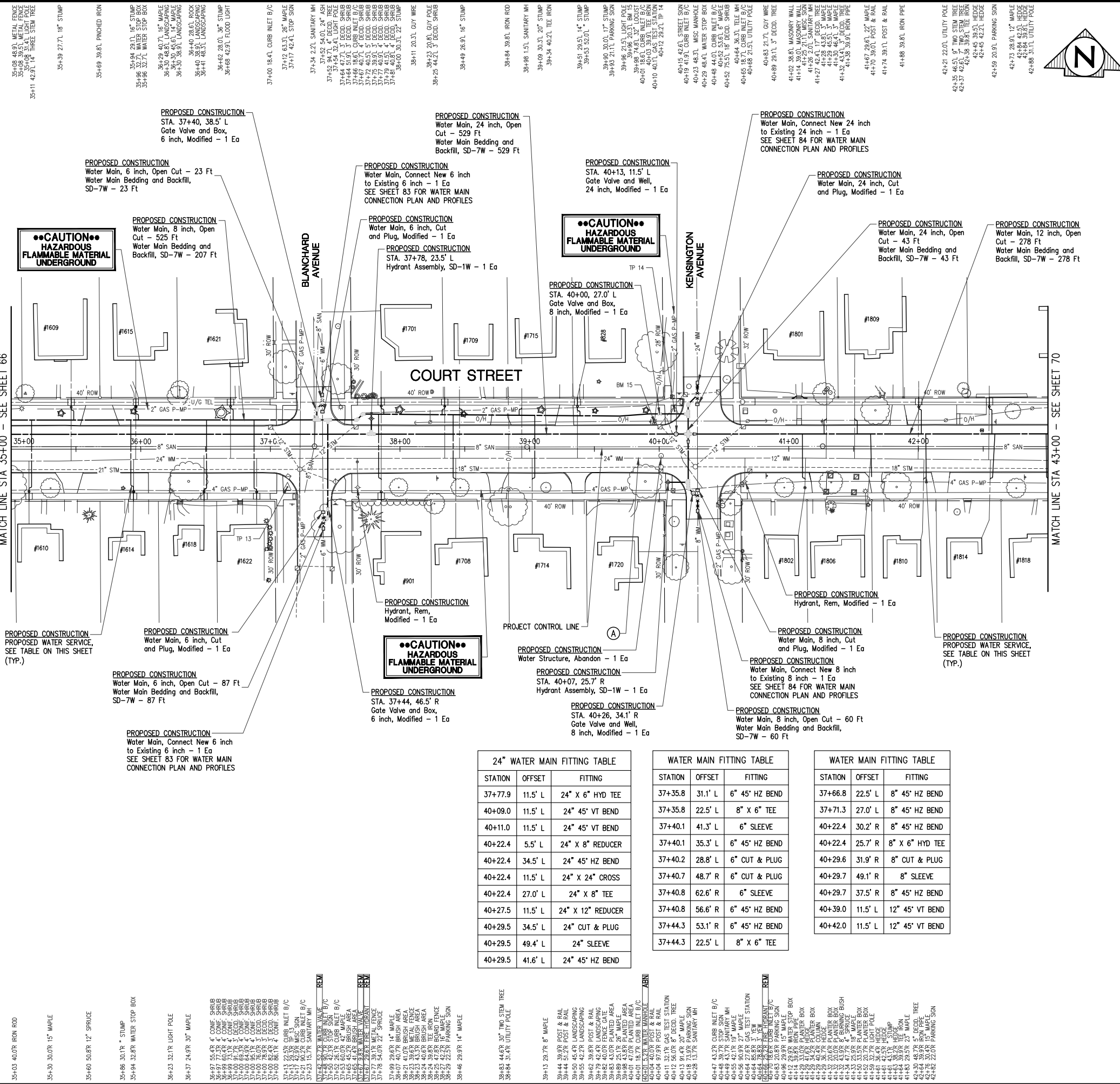
REV: \_\_\_\_\_  
 SHT# 67 of 100  
 JOB No: 18C0137



PREPARED FOR  
**CITY OF FLINT**  
**COURT STREET REHABILITATION**  
 STA. 27+00 TO STA. 35+00  
 WATER MAIN PROFILE SHEET

**ROWE PROFESSIONAL SERVICES COMPANY**  
 The Rowe Building  
 540 S. Saginaw St., Suite 200  
 Flint, MI 48502  
 O: (810) 341-7500  
 F: (810) 341-7573  
 www.rowepsc.com

PLAN DATE: JUNE 2019  
 PROJECT MGR: JMB  
 REVISOR: TCL  
 SCALE: 1" = 40' HZ; 1" = 5' VT



### SHEET QUANTITIES CATEGORY 3 - NON-PARTICIPATING

DESCRIPTION	QUANTITY	UNITS
Abandon Water Main, 12 inch	270	Ft
Abandon Water Main, 24 inch	570	Ft
Abandon Water Main, 6 inch	80	Ft
Abandon Water Main, 8 inch	25	Ft
Water Main Bedding and Backfill, SD-7W	1227	Ft
Water Main, 12 inch, Open Cut	278	Ft
Water Main, 24 inch, Open Cut	572	Ft
Water Main, 6 inch, Open Cut	110	Ft
Water Main, 8 inch, Open Cut	585	Ft
Gate Valve and Box, 6 inch, Modified	2	Ea
Gate Valve and Box, 8 inch, Modified	1	Ea
Gate Valve and Well, 24 inch, Modified	1	Ea
Gate Valve and Well, 8 inch, Modified	1	Ea
Hydrant Assembly, SD-1W	2	Ea
Hydrant, Rem, Modified	2	Ea
Water Main, 24 inch, Cut and Plug, Modified	1	Ea
Water Main, 6 inch, Cut and Plug, Modified	2	Ea
Water Main, 8 inch, Cut and Plug, Modified	1	Ea
Water Main, Connect New 24 inch to Existing 24 inch	1	Ea
Water Main, Connect New 6 inch to Existing 6 inch	2	Ea
Water Main, Connect New 8 inch to Existing 8 inch	1	Ea
Water Serv, 1 inch	9	Ea
Water Serv, Long, 1 inch	14	Ea
Water Structure, Abandon	1	Ea

### WATER SERVICE SCHEDULE

ADDRESS OR TAX ID	APPROXIMATE TAP STATION	REPLACED (Y) - YES, (N) - NO	SIZE (INCH)	BORED LENGTH (FT)	OPEN CUT LENGTH (FT)	Water Serv. - inch (Ea)	Water Serv. Long. - inch (Ea)
1610 E. COURT	35+16	N	1	25	40		1
1609 E. COURT	35+48	N	1	20	20	1	
1614 E. COURT	35+92	N	1	25	40		1
1615 E. COURT	35+98	N	1	20	20	1	
1618 E. COURT	36+51	N	1	25	40		1
1621 E. COURT	36+71	N	1	20	20	1	
1622 E. COURT	36+87	N	1	25	40		1
901 BLANCHARD	37+84	Y	1	25	35		1
1701 E. COURT	37+88	N	1	15	15	1	
1708 E. COURT	38+41	Y	1	25	30		1
1709 E. COURT (**)	38+44	Y	1	10	10	1	
1715 E. COURT	38+92	Y	1	10	10	1	
1714 E. COURT	39+04	Y	1	25	30		1
828 KENSINGTON	39+39	N	1	15	15	1	
1802 E. COURT	41+10	Y	1	25	15		1
1801 E. COURT	41+27	Y	1	15	15	1	
1809 E. COURT	41+53	Y	1	15	15	1	
1806 E. COURT	41+63	Y	1	25	15		1
41-08-384-025	42+02	N	1	35	35		1
1810 E. COURT	42+06	Y	1	25	15		1
41-08-384-029	42+57	N	1	35	35		1
1814 E. COURT	42+59	Y	1	25	15		1
1818 E. COURT	42+99	Y	1	25	15		1

- NOTES:
- THE CONTRACTOR SHALL EXCAVATE WATER SERVICES TO CONFIRM THE EXISTING WATER SERVICE SIZES AND MATERIALS PRIOR TO INSTALLING SERVICES. COST INCLUDED IN THE WATER SERVICE PAY ITEM.
  - (\*) INDICATES IF WATER SERVICE WAS RECENTLY REPLACED WITH NEW COPPER SERVICE, OR NOT, AS PART OF THE CITY OF FLINT WATER SERVICE REPLACEMENT PROGRAM. FOR REPLACED SERVICES THE CONTRACTOR SHALL PLACE COUPLING AND CONNECT TO EXISTING COPPER SERVICE IN THE GREENBELT JUST OUTSIDE OF THE CURB LINE. SEE DETAIL ON SHEET 13.
  - (\*\*) INDICATES THAT CITY OF FLINT WILL NEED TO SPECIFY LOCATION OF EXISTING WATER SERVICE PRIOR TO SERVICE REPLACEMENT FROM 8" WATER MAIN.



STATION	OFFSET	FITTING
37+77.9	11.5' L	24" X 6" HYD TEE
40+09.0	11.5' L	24" 45° VT BEND
40+11.0	11.5' L	24" 45° VT BEND
40+22.4	5.5' L	24" X 8" REDUCER
40+22.4	34.5' L	24" 45° HZ BEND
40+22.4	11.5' L	24" X 24" CROSS
40+27.5	11.5' L	24" X 12" REDUCER
40+29.5	34.5' L	24" CUT & PLUG
40+29.5	49.4' L	24" SLEEVE
40+29.5	41.6' L	24" 45° HZ BEND

STATION	OFFSET	FITTING
37+35.8	31.1' L	6" 45° HZ BEND
37+35.8	22.5' L	8" X 6" TEE
37+40.1	41.3' L	6" SLEEVE
37+40.1	35.3' L	6" 45° HZ BEND
37+40.2	28.8' R	6" CUT & PLUG
37+40.7	48.7' R	6" CUT & PLUG
37+40.8	62.6' R	6" SLEEVE
37+40.8	56.6' R	6" 45° HZ BEND
37+44.3	53.1' R	6" 45° HZ BEND
37+44.3	22.5' L	8" X 6" TEE

STATION	OFFSET	FITTING
37+66.8	22.5' L	8" 45° HZ BEND
37+71.3	27.0' L	8" 45° HZ BEND
40+22.4	30.2' R	8" 45° HZ BEND
40+22.4	25.7' R	8" X 6" HYD TEE
40+29.6	31.9' R	8" CUT & PLUG
40+29.7	49.1' R	8" SLEEVE
40+29.7	37.5' R	8" 45° HZ BEND
40+39.0	11.5' L	12" 45° VT BEND
40+42.0	11.5' L	12" 45° VT BEND

PLAN SUBMITTALS AND CHANGES	
DATE	DESCRIPTION
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PLAN DATE: JUNE 2019  
 PROJECT MGR: JMB  
 REVIEWER: TCL  
 SCALE: 1" = 40'

**ROWE PROFESSIONAL SERVICES COMPANY**

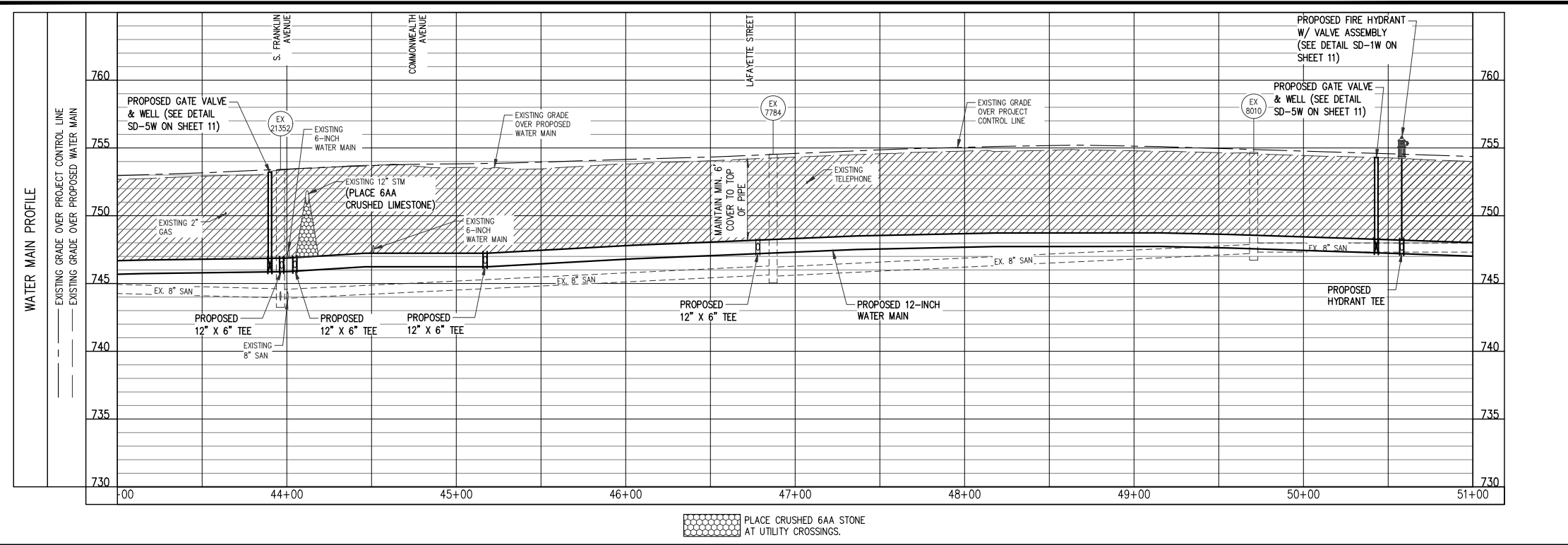
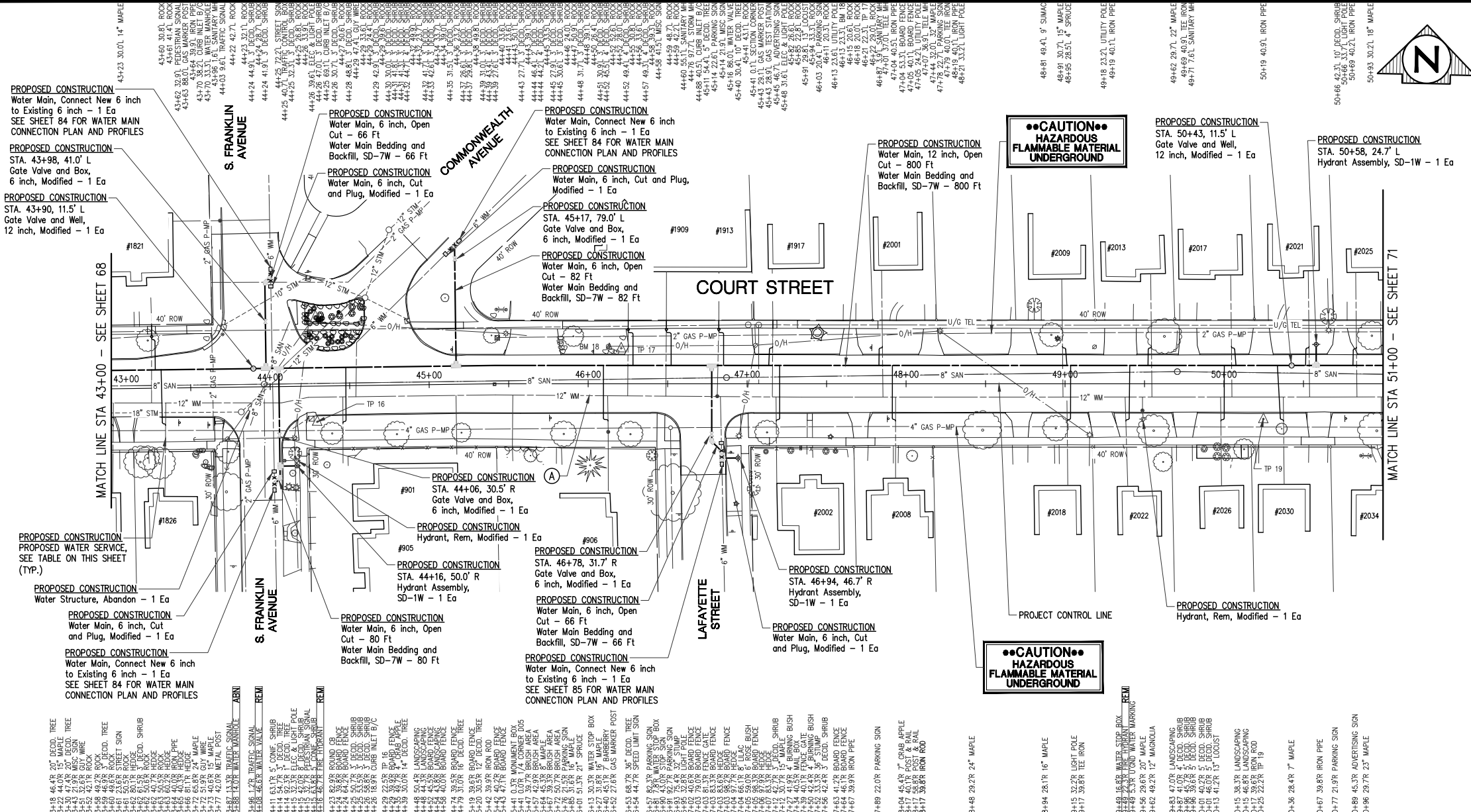
The Rowe Building  
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Flint, MI 48502

**CITY OF FLINT  
COURT STREET REHABILITATION  
STA. 35+00 TO STA. 43+00  
WATER MAIN PLAN SHEET**

REV: \_\_\_\_\_  
 SHT# 68 of 100  
 JOB No: 18C0137







### SHEET QUANTITIES CATEGORY 3 - NON-PARTICIPATING

DESCRIPTION	QUANTITY	UNITS
Abandon Water Main, 12 inch	800	Ft
Abandon Water Main, 6 inch	150	Ft
Water Main Bedding and Backfill, SD-7W	1094	Ft
Water Main, 12 inch, Open Cut	800	Ft
Water Main, 6 inch, Open Cut	294	Ft
Gate Valve and Box, 6 inch, Modified	4	Ea
Gate Valve and Well, 12 inch, Modified	2	Ea
Hydrant Assembly, SD-1W	3	Ea
Hydrant, Rem, Modified	2	Ea
Water Main, 6 inch, Cut and Plug, Modified	4	Ea
Water Main, Connect New 6 inch to Existing 6 inch	4	Ea
Water Serv, 1 inch	7	Ea
Water Serv, Long, 1 inch	14	Ea
Water Structure, Abandon	1	Ea

#### WATER MAIN FITTING TABLE

STATION	OFFSET	FITTING
43+97.5	65.4' L	6" 45' HZ BEND
43+97.5	11.5' L	12" X 6" TEE
44+01.1	75.2' L	6" SLEEVE
44+01.1	69.1' L	6" 45' HZ BEND
44+01.2	63.1' L	6" CUT & CAP
44+01.9	53.3' R	6" CUT & CAP
44+01.9	66.4' R	6" SLEEVE
44+01.9	61.3' R	6" 45' HZ BEND
44+05.5	57.7' R	6" 45' HZ BEND
44+05.5	50.0' R	6" X 6" HYD TEE
44+05.5	11.5' L	12" X 6" TEE

#### WATER MAIN FITTING TABLE

STATION	OFFSET	FITTING
45+11.4	82.0' L	6" CUT & CAP
45+17.1	87.3' L	6" 45' HZ BEND
45+17.1	11.5' L	12" X 6" TEE
45+20.9	91.1' L	6" SLEEVE
46+77.8	36.3' R	6" 45' HZ BEND
46+77.8	11.5' L	12" X 6" TEE
46+83.8	37.2' R	6" CUT & CAP
46+84.1	52.0' R	6" SLEEVE
46+84.1	46.8' R	6" X 6" HYD TEE
46+84.1	42.6' R	6" 45' HZ BEND
50+58.0	11.5' L	12" X 6" HYD TEE

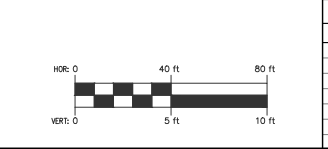
#### WATER SERVICE SCHEDULE

ADDRESS OR TAX ID	APPROXIMATE TAP STATION	(*) REPLACED (Y) - YES (N) - NO	SIZE (INCH)	BORED LENGTH (FT)	OPEN CUT LENGTH (FT)	Water Serv. - inch (Ea)	Water Serv. Long. - inch (Ea)
1821 E. COURT	43+28	N	1	35			1
1826 E. COURT	43+32	Y	1	25	10		1
901 S. FRANKLIN (**)	44+48	Y	1	25	15		1
901 S. FRANKLIN (**)	45+09						
906 LAFAYETTE (**)	45+54						
906 LAFAYETTE (**)	46+10	Y	1	25	15		1
1901 E. COURT	46+28	N	1	35	1		1
1909 E. COURT	46+52	N	1	35			1
1913 E. COURT	46+85	N	1	35			1
1917 E. COURT	47+14	Y	1	15	1		1
2002 E. COURT	47+20	Y	1	25	10		1
2001 E. COURT	47+83	Y	1	15	1		1
2008 E. COURT	47+91	Y	1	25	10		1
2009 E. COURT	49+01	Y	1	15	1		1
2018 E. COURT	49+04	Y	1	25	15		1
2022 E. COURT	49+41	Y	1	25	15		1
2013 E. COURT	49+52	Y	1	15	1		1
2026 E. COURT	50+00	Y	1	25	15		1
2017 E. COURT	50+07	Y	1	15	1		1
2030 E. COURT	50+34	Y	1	25	15		1
2021 E. COURT	50+51	Y	1	15	1		1
2025 E. COURT	50+81	Y	1	15	1		1

- NOTES:
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Know what's below.  
Call before you dig.



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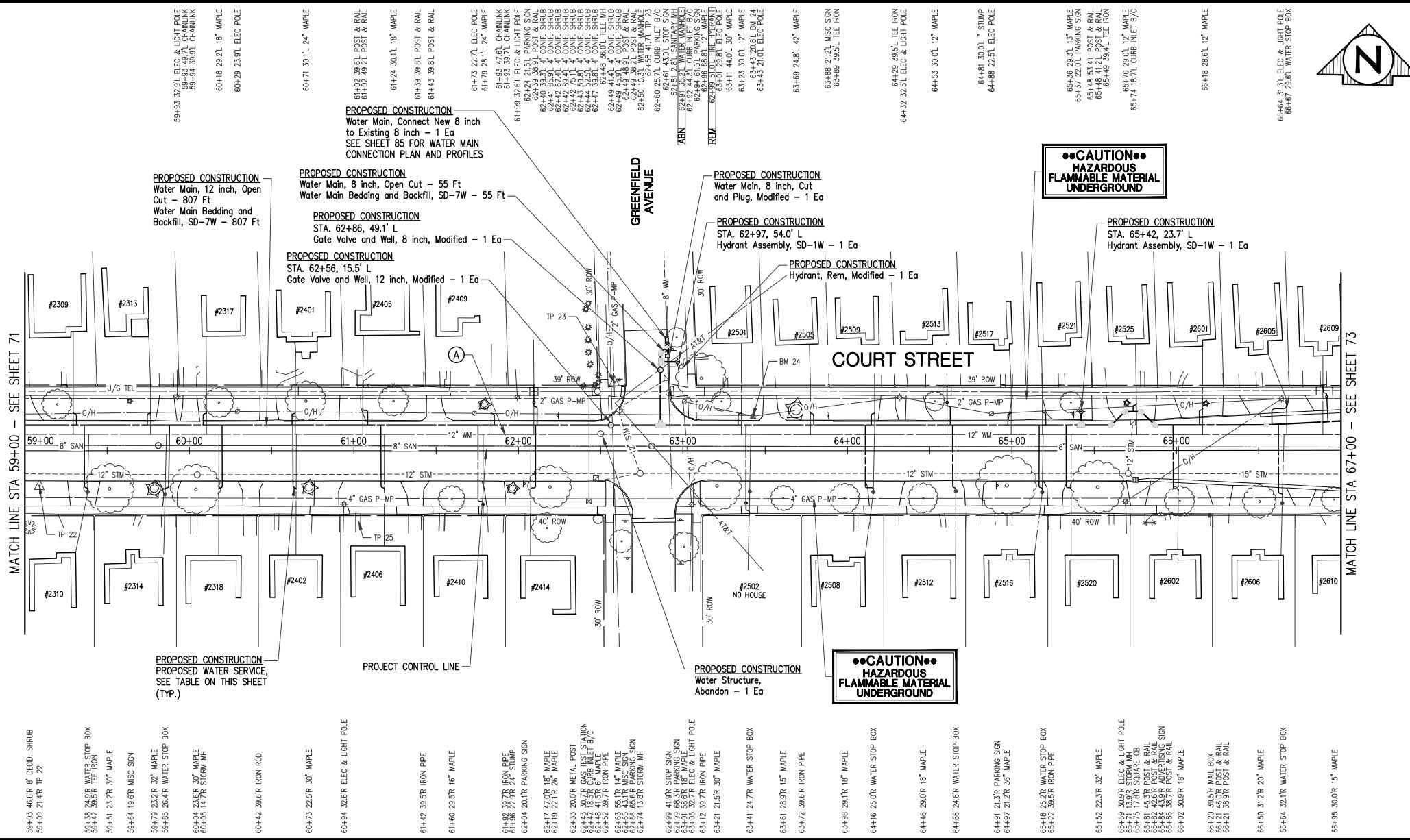
PREPARED FOR  
**CITY OF FLINT**  
**COURT STREET REHABILITATION**  
STA. 43+00 TO STA. 51+00  
WATER MAIN PLAN AND PROFILE SHEET

REV: \_\_\_\_\_

SHT# 70 of 100  
JOB No: 18C0137







### SHEET QUANTITIES CATEGORY 3 - NON-PARTICIPATING

DESCRIPTION	QUANTITY	UNITS
Abandon Water Main, 12 inch	800	Ft
Abandon Water Main, 8 inch	80	Ft
Water Main Bedding and Backfill, SD-7W	862	Ft
Water Main, 12 inch, Open Cut	807	Ft
Water Main, 8 inch, Open Cut	55	Ft
Gate Valve and Well, 12 inch, Modified	1	Ea
Gate Valve and Well, 8 inch, Modified	1	Ea
Hydrant Assembly, SD-1W	2	Ea
Hydrant, Rem, Modified	1	Ea
Water Main, 8 inch, Cut and Plug, Modified	1	Ea
Water Main, Connect New 8 inch to Existing 8 inch	1	Ea
Water Serv, 1 inch	17	Ea
Water Serv, Long, 1 inch	14	Ea
Water Structure, Abandon	1	Ea

STATION	OFFSET	FITTING
62+86.3	59.4' L	8" 45° HZ BEND
62+86.3	54.0' L	8" X 6" HYD TEE
62+86.3	15.5' L	12" X 8" TEE
62+90.2	68.7' L	8" SLEEVE
62+90.2	63.2' L	8" 45° HZ BEND
62+90.6	57.7' L	8" CUT & CAP

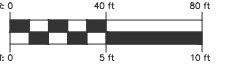
STATION	OFFSET	FITTING
65+42.1	15.5' L	12" X 6" HYD TEE
65+60.4	15.5' L	12" 45° HZ BEND
65+68.6	23.7' L	12" 45° HZ BEND
65+78.6	23.7' L	12" 45° HZ BEND
65+86.8	15.5' L	12" 45° HZ BEND
66+54.7	15.5' L	12" 11.25° HZ BEND

ADDRESS OR TAX ID	APPROXIMATE TAP STATION	(*) REPLACED (Y) - YES, (N) - NO	SIZE (INCH)	BORED LENGTH (FT)	OPEN CUT LENGTH (FT)	Water Serv. - inch (Ea)	Water Serv. Long. - inch (Ea)
2309 E. COURT	59+31	Y	1	15	1	1	
2310 E. COURT	59+36	Y	1	25	20		1
2313 E. COURT	59+74	Y	1	10	1		
2314 E. COURT	59+88	Y	1	25	20		1
2317 E. COURT	60+08	Y	1	10	1		
2318 E. COURT	60+20	Y	1	25	20		1
2401 E. COURT	60+62	Y	1	10	1		
2402 E. COURT	60+63	Y	1	25	20		1
2405 E. COURT	61+08	Y	1	15	1		
2406 E. COURT	61+16	Y	1	25	20		1
2409 E. COURT	61+75	N	1	25	30		1
2410 E. COURT	61+85	Y	1	10	1		
2414 E. COURT	62+10	Y	1	25	20		1
41-08-483-033	62+11	N	1		30	1	
2501 E. COURT	63+34	Y	1	10	1		
2502 E. COURT	63+38	N	1	25	35		1
2505 E. COURT	63+80	Y	1	10	1		
2508 E. COURT	64+11	Y	1	25	20		1
2509 E. COURT	64+15	Y	1	10	1		
2513 E. COURT	64+63	N	1		30	1	
2512 E. COURT	64+64	Y	1	25	20		1
2517 E. COURT	64+98	Y	1	10	1		
2516 E. COURT	65+17	Y	1	25	20		1
2521 E. COURT	65+21	Y	1	10	1		
2520 E. COURT	65+33	Y	1	25	20		1
2525 E. COURT	65+74	Y	1	10	1		
2602 E. COURT	65+98	Y	1	25	20		1
2601 E. COURT	66+14	Y	1	15	1		
2605 E. COURT	66+58	Y	1	25	1		
2606 E. COURT	66+62	Y	1	25	20		1
2609 E. COURT	66+92	N	1		25	1	

- NOTES:
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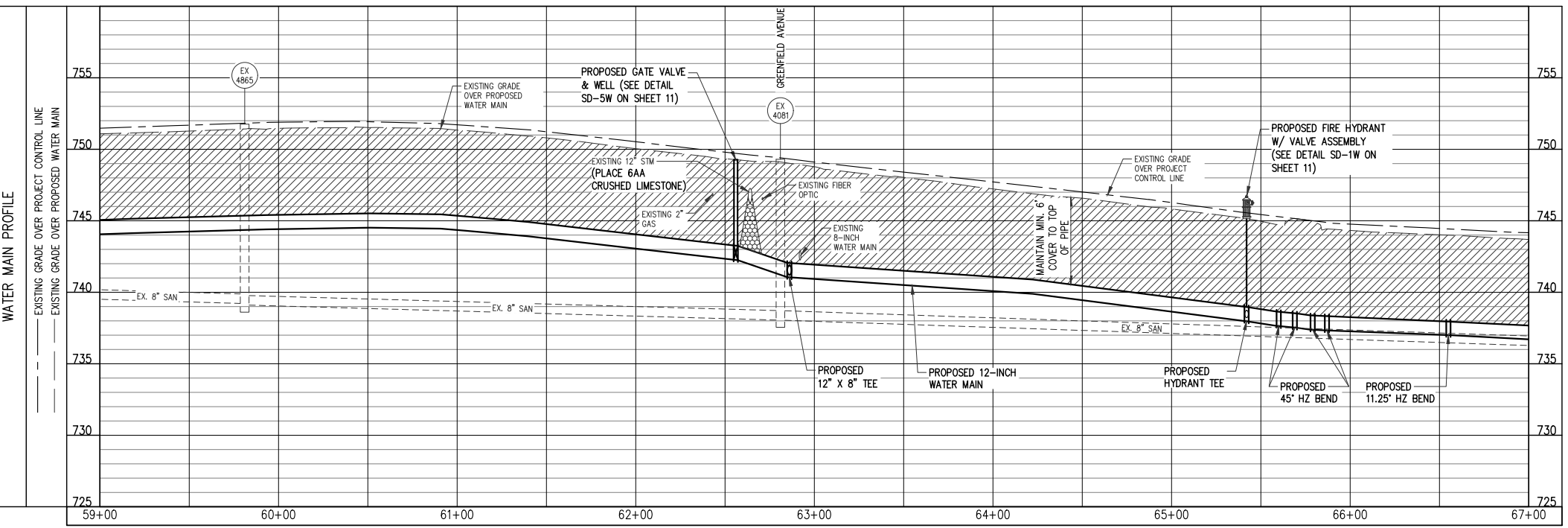
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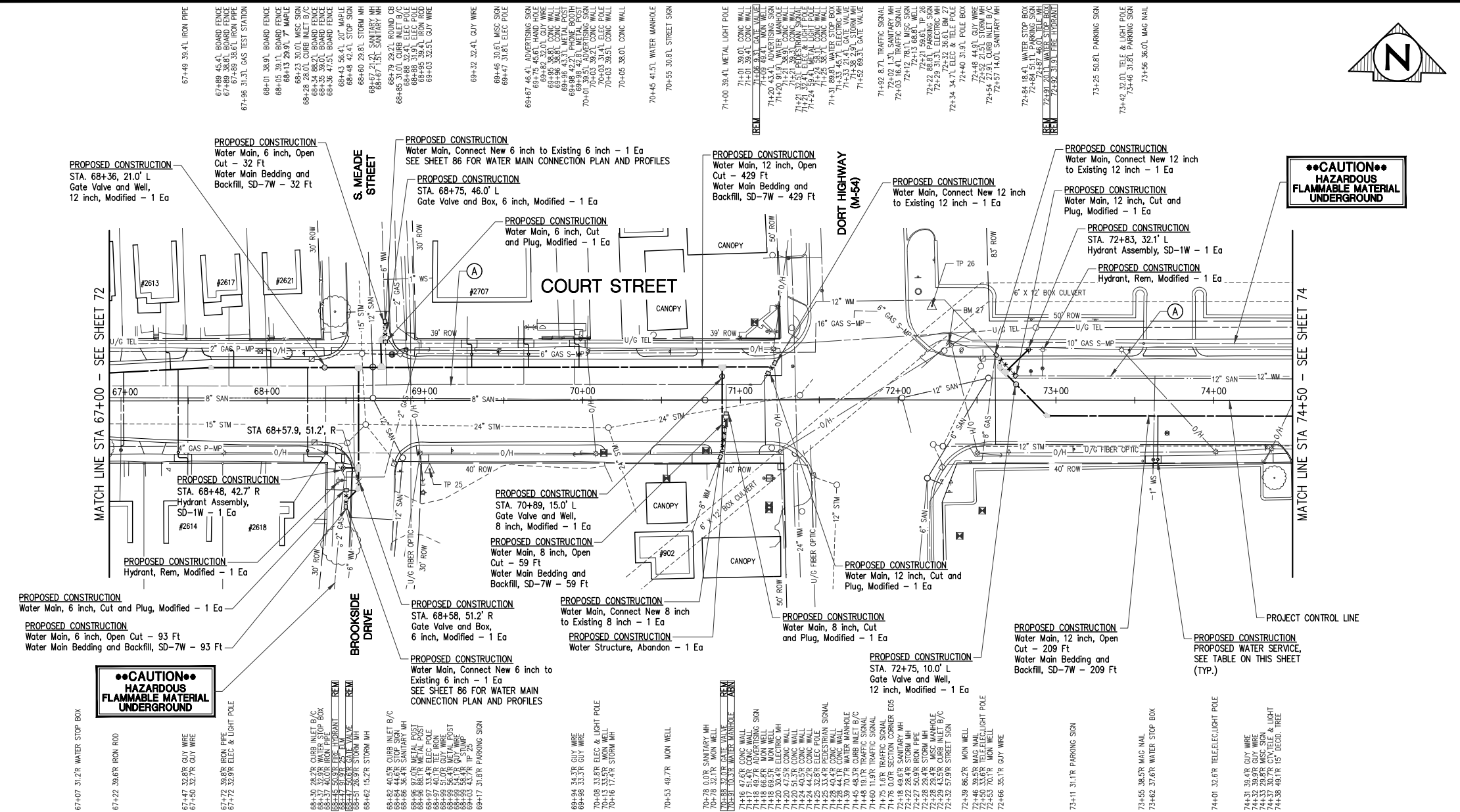
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 STA. 59+00 TO STA. 67+00  
 WATER MAIN PLAN AND PROFILE SHEET

REV: \_\_\_\_\_  
 SHT# 72 of 100  
 JOB No: 18C0137



PLACE CRUSHED 6AA STONE AT UTILITY CROSSINGS.





**HAZARDOUS FLAMMABLE MATERIAL UNDERGROUND**



**SHEET QUANTITIES  
CATEGORY 3 - NON-PARTICIPATING**

DESCRIPTION	QUANTITY	UNITS
Abandon Water Main, 12 inch	422	Ft
Abandon Water Main, 6 inch	28	Ft
Water Main Bedding and Backfill, SD-7W	822	Ft
Water Main, 12 inch, Open Cut	638	Ft
Water Main, 6 inch, Open Cut	125	Ft
Water Main, 8 inch, Open Cut	59	Ft
Gate Valve and Box, 6 inch, Modified	2	Ea
Gate Valve and Well, 12 inch, Modified	2	Ea
Gate Valve and Well, 8 inch, Modified	1	Ea
Hydrant Assembly, SD-1W	2	Ea
Hydrant, Rem, Modified	2	Ea
Water Main, 12 inch, Cut and Plug, Modified	2	Ea
Water Main, 6 inch, Cut and Plug, Modified	2	Ea
Water Main, 8 inch, Cut and Plug, Modified	1	Ea
Water Main, Connect New 12 inch to Existing 12 inch	2	Ea
Water Main, Connect New 6 inch to Existing 6 inch	2	Ea
Water Main, Connect New 8 inch to Existing 8 inch	1	Ea
Water Serv, 1 inch	6	Ea
Water Serv, Long, 1 inch	4	Ea
Water Structure, Abandon	1	Ea

**WATER MAIN FITTING TABLE**

STATION	OFFSET	FITTING
67+64.6	21.0' L	12" 11.25' HZ BEND
68+49.8	68.7' R	6" SLEEVE
68+49.8	63.9' R	6" 45' HZ BEND
68+50.2	56.9' R	6" CUT & CAP
68+57.8	55.9' R	6" 45' HZ BEND
68+58.0	42.8' R	6" X 6" HYD TEE
68+58.1	21.0' L	12" X 6" TEE
68+72.1	38.6' L	6" 45' HZ BEND
68+72.6	21.0' L	12" X 6" TEE
68+74.7	51.5' L	6" SLEEVE
68+74.9	41.7' L	6" 45' HZ BEND
68+75.1	37.3' R	6" CUT & CAP
70+86.7	37.3' R	8" SLEEVE
70+88.5	32.8' R	8" 22.5' HZ BEND

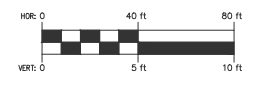
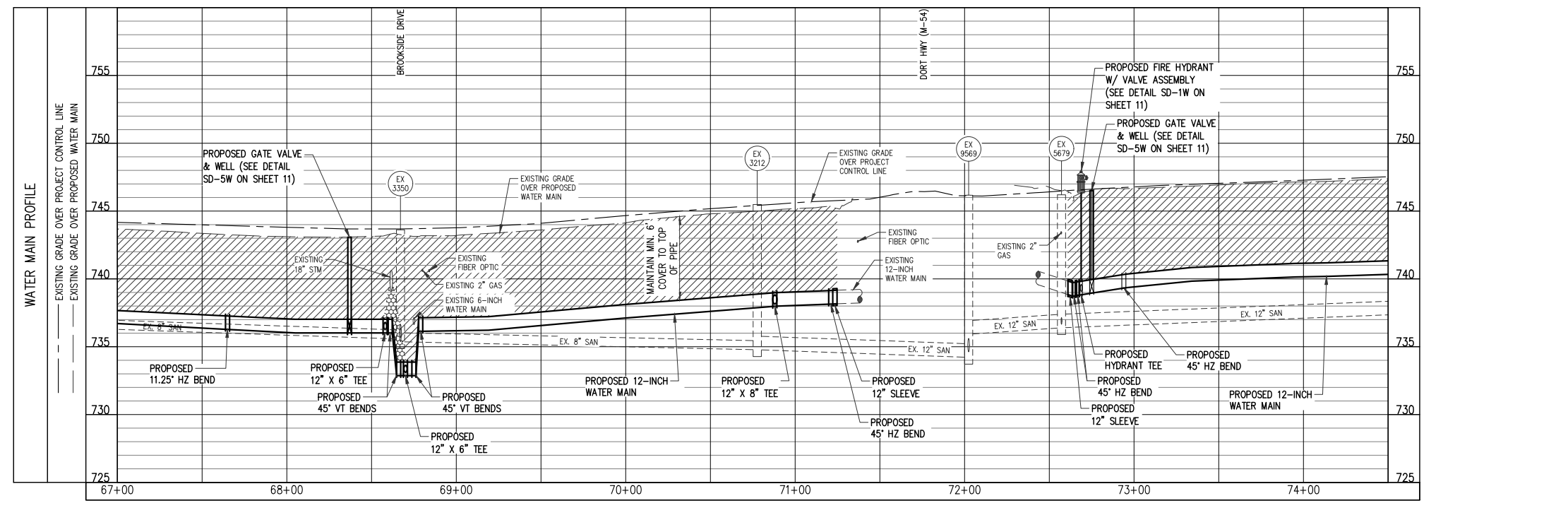
**WATER MAIN FITTING TABLE**

STATION	OFFSET	FITTING
70+88.5	21.0' L	12" X 8" TEE
70+91.0	8.5' R	8" CUT & CAP
71+17.9	16.9' L	12" CUT & CAP
71+20.7	21.0' L	12" 45' HZ BEND
71+22.9	24.5' L	12" SLEEVE
72+61.3	29.5' L	12" SLEEVE
72+64.2	20.8' L	12" 45' HZ BEND
72+64.5	26.0' L	12" 45' HZ BEND
72+67.5	17.4' L	12" X 6" HYD TEE
72+74.5	15.4' L	12" CUT & CAP
72+94.2	10.0' R	12" 45' HZ BEND

**WATER SERVICE SCHEDULE**

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2610 E. COURT	67+09	Y	1	25	20		1
2613 E. COURT	67+39	Y	1	15	15	1	
2614 E. COURT	67+44	N	1	25	45		1
2617 E. COURT	67+79	Y	1	15	15	1	
2621 E. COURT	68+02	Y	1	15	15	1	
2618 E. COURT	68+26	Y	1	25	50		1
2707 E. COURT	69+30	N	1	20	1		
2707 E. COURT	69+66	N	1	20	1		
2707 E. COURT	69+98	N	1	20	1		
905 S. DORT HWY	73+65	Y	1	15	20		1

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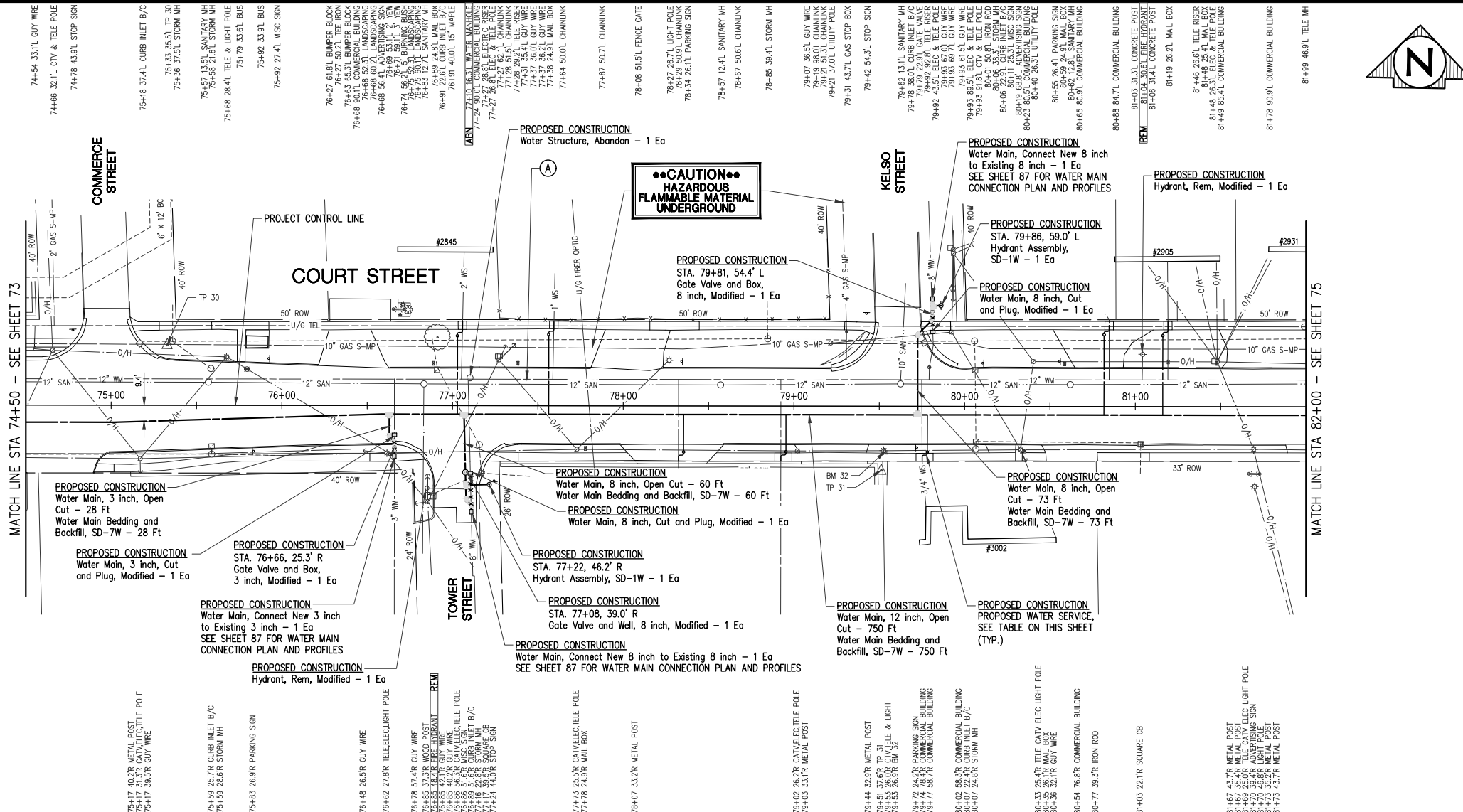
PLAN DATE: JUNE 2019  
PROJECT MGR: JMB  
REVIEWER: TCL  
SCALE: 1" = 40' HZ; 1" = 5' VT

**ROWE PROFESSIONAL SERVICES COMPANY**  
The Rowe Building  
540 S. Saginaw St., Suite 200  
Flint, MI 48502

**CITY OF FLINT  
COURT STREET REHABILITATION  
STA. 67+00 TO STA. 74+50  
WATER MAIN PLAN AND PROFILE SHEET**

SHT# 73 of 100  
JOB No: 18C0137





### SHEET QUANTITIES CATEGORY 3 - NON-PARTICIPATING

DESCRIPTION	QUANTITY	UNITS
Abandon Water Main, 12 inch	750	Ft
Abandon Water Main, 8 inch	85	Ft
Water Main Bedding and Backfill, SD-7W	911	Ft
Water Main, 3 inch, Open Cut	28	Ft
Water Main, 8 inch, Open Cut	133	Ft
Water Main, 12 inch, Open Cut	750	Ft
Gate Valve and Box, 3 inch, Modified	1	Ea
Gate Valve and Box, 8 inch, Modified	1	Ea
Gate Valve and Well, 8 inch, Modified	1	Ea
Hydrant Assembly, SD-1W	2	Ea
Hydrant, Rem, Modified	2	Ea
Water Main, 3 inch, Cut and Plug, Modified	1	Ea
Water Main, 8 inch, Cut and Plug, Modified	2	Ea
Water Main, Connect New 3 inch to Existing 3 inch	1	Ea
Water Main, Connect New 8 inch to Existing 8 inch	2	Ea
Water Serv, 1 inch	3	Ea
Water Serv, Long, 1 inch	3	Ea
Water Serv, Long, 2 inch	1	Ea
Water Structure, Abandon	1	Ea

#### WATER MAIN FITTING TABLE

STATION	OFFSET	FITTING
76+63.0	18.3' R	3" 45° HZ BEND
76+63.0	5.0' R	12" X 3" TEE
76+66.0	17.1' R	3" CUT & PLUG
76+66.0	31.4' R	3" SLEEVE
76+66.0	21.3' R	3" 45° HZ BEND
76+69.9	5.0' R	12" 45° VT BEND
76+72.9	5.0' R	12" 45° VT BEND
76+89.9	5.0' R	12" 45° VT BEND
76+92.9	5.0' R	12" 45° VT BEND
77+06.7	5.0' R	12" X 8" TEE
77+07.8	46.5' R	8" X 6" HYD TEE

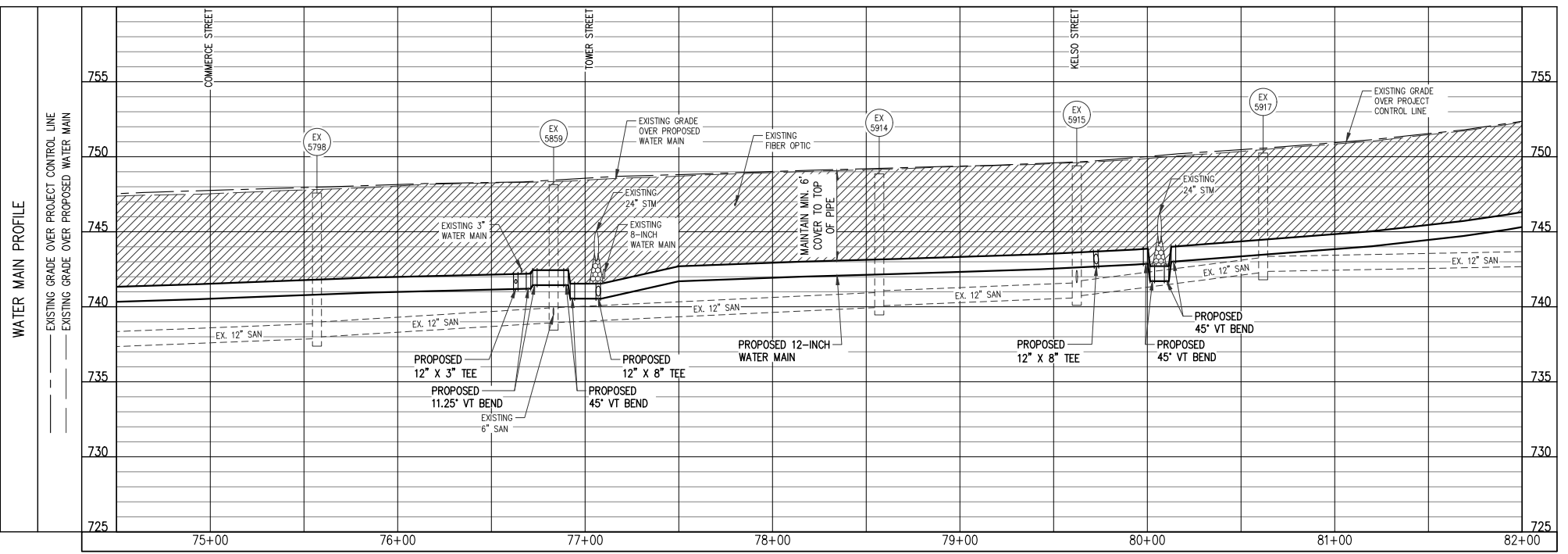
#### WATER MAIN FITTING TABLE

STATION	OFFSET	FITTING
77+08.0	55.1' R	8" 45° HZ BEND
77+10.5	39.6' R	8" CUT & PLUG
77+10.9	57.8' R	8" 45° HZ BEND
77+11.1	63.5' R	8" SLEEVE
79+72.4	42.1' L	8" 45° HZ BEND
79+72.4	5.0' R	12" X 8" TEE
79+81.0	62.9' L	8" SLEEVE
79+81.0	58.8' L	8" X 6" HYD TEE
79+81.0	50.7' L	8" 45° HZ BEND
79+81.3	43.5' L	8" CUT & PLUG

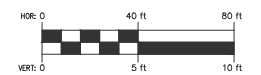
#### WATER SERVICE SCHEDULE

ADDRESS OR TAX ID	APPROXIMATE TAP STATION	(*) REPLACED (Y) - YES, (N) - NO	SIZE (INCH)	BORED LENGTH (Ft)	OPEN CUT LENGTH (Ft)	Water Serv. - inch (Ea)	Water Serv. Long. - inch (Ea)
2845 E. COURT	77+03	N	2	25	35		1
2851 E. COURT	77+56	N	1	25	35		1
910 E. COURT	78+35	N	1	13	15	1	
910 E. COURT	78+95	N	3/4	13	15	1	
3002 E. COURT	79+78	N	1	13	15	1	
2901 E. COURT	80+82	N	1	25	35		1
2905 E. COURT	81+16	N	1	25	35		1

- NOTES:
- THE CONTRACTOR SHALL EXCAVATE WATER SERVICES TO CONFIRM THE EXISTING WATER SERVICE SIZES AND MATERIALS PRIOR TO INSTALLING SERVICES. COST INCLUDED IN THE WATER SERVICE PAY ITEM.
  - (\*) INDICATES IF WATER SERVICE WAS RECENTLY REPLACED WITH NEW COPPER SERVICE, OR NOT, AS PART OF THE CITY OF FLINT WATER SERVICE REPLACEMENT PROGRAM. FOR REPLACED SERVICES THE CONTRACTOR SHALL PLACE COUPLING AND CONNECT TO EXISTING COPPER SERVICE IN THE GREENBELT JUST OUTSIDE OF THE CURB LINE. SEE DETAIL ON SHEET 13.



PLACE CRUSHED 6AA STONE AT UTILITY CROSSINGS.



#### PLAN SUBMITTALS AND CHANGES

DATE	DESCRIPTION
6/5/2019	ISSUED FOR BIDS

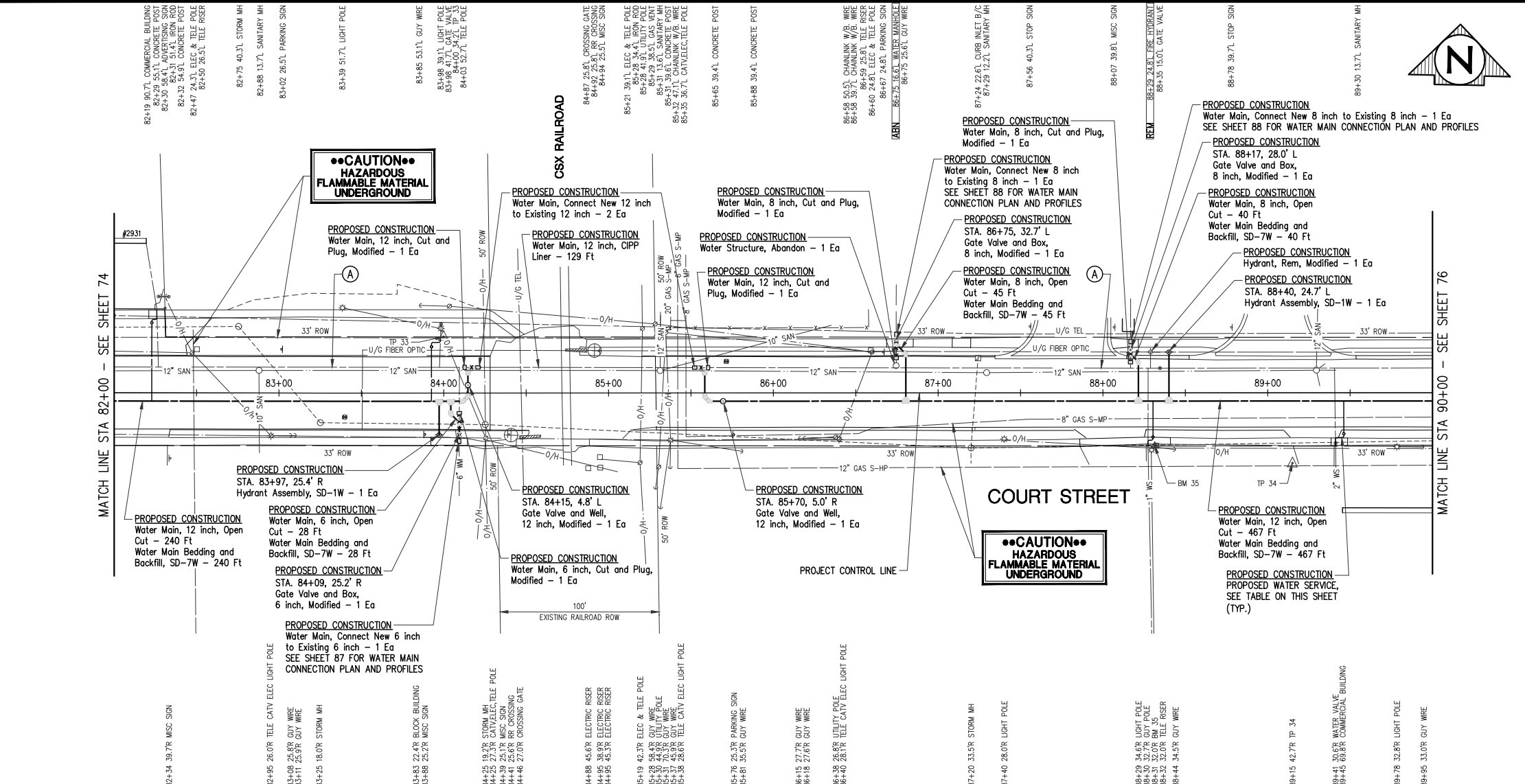
PLAN DATE: JUNE 2019  
 PROJECT MGR: JMB  
 REVIEWER: TCL  
 SCALE: 1" = 40' HZ; 1" = 5' VT

**ROWE PROFESSIONAL SERVICES COMPANY**

The Rowe Building  
 540 S. Saginaw St., Suite 200  
 Flint, MI 48502

O: (810) 341-7500  
 F: (810) 341-7573  
 www.rowepsc.com

PREPARED FOR  
**CITY OF FLINT**  
**COURT STREET REHABILITATION**  
 STA. 74+50 TO STA. 82+00  
 WATER MAIN PLAN AND PROFILE SHEET



### SHEET QUANTITIES CATEGORY 3 - NON-PARTICIPATING

DESCRIPTION	QUANTITY	UNITS
Abandon Water Main, 12 inch	655	Ft
Abandon Water Main, 6 inch	30	Ft
Water Main Bedding and Backfill, SD-7W	820	Ft
Water Main, 12 inch, CIPP Liner	129	Ft
Water Main, 12 inch, Open Cut	707	Ft
Water Main, 6 inch, Open Cut	28	Ft
Water Main, 8 inch, Open Cut	85	Ft
Gate Valve and Box, 6 inch, Modified	1	Ea
Gate Valve and Box, 8 inch, Modified	2	Ea
Gate Valve and Well, 12 inch, Modified	2	Ea
Hydrant Assembly, SD-1W	2	Ea
Hydrant, Rem, Modified	1	Ea
Water Main, 12 inch, Cut and Plug, Modified	2	Ea
Water Main, 6 inch, Cut and Plug, Modified	1	Ea
Water Main, 8 inch, Cut and Plug, Modified	2	Ea
Water Main, Connect New 12 inch to Existing 12 inch	2	Ea
Water Main, Connect New 6 inch to Existing 6 inch	1	Ea
Water Main, Connect New 8 inch to Existing 8 inch	2	Ea
Water Serv, 1 inch	1	Ea
Water Serv, 2 inch	1	Ea
Water Serv, Long, 1 inch	2	Ea
Water Structure, Abandon	1	Ea

#### WATER MAIN FITTING TABLE

STATION	OFFSET	FITTING
82+79.9	5.0' R	12" 45° VT BEND
82+84.4	5.0' R	12" 45° VT BEND
82+92.9	5.0' R	12" 45° VT BEND
82+96.3	5.0' R	12" 45° VT BEND
83+97.2	5.0' R	12" X 6" HYD TEE
84+04.3	12.7' R	6" 45° HZ BEND
84+04.3	5.0' R	12" X 6" TEE
84+09.4	30.6' R	6" SLEEVE
84+09.5	12.2' R	6" CUT & PLUG
84+09.5	17.9' R	6" 45° HZ BEND
84+11.8	5.0' R	12" 45° HZ BEND
84+12.7	15.6' L	12" CUT & PLUG
84+14.7	12.8' L	12" 45° HZ BEND
84+14.7	2.2' R	12" 45° HZ BEND
84+17.4	15.6' L	12" 45° HZ BEND
84+22.1	15.6' L	12" SLEEVE
85+50.9	15.4' L	12" SLEEVE

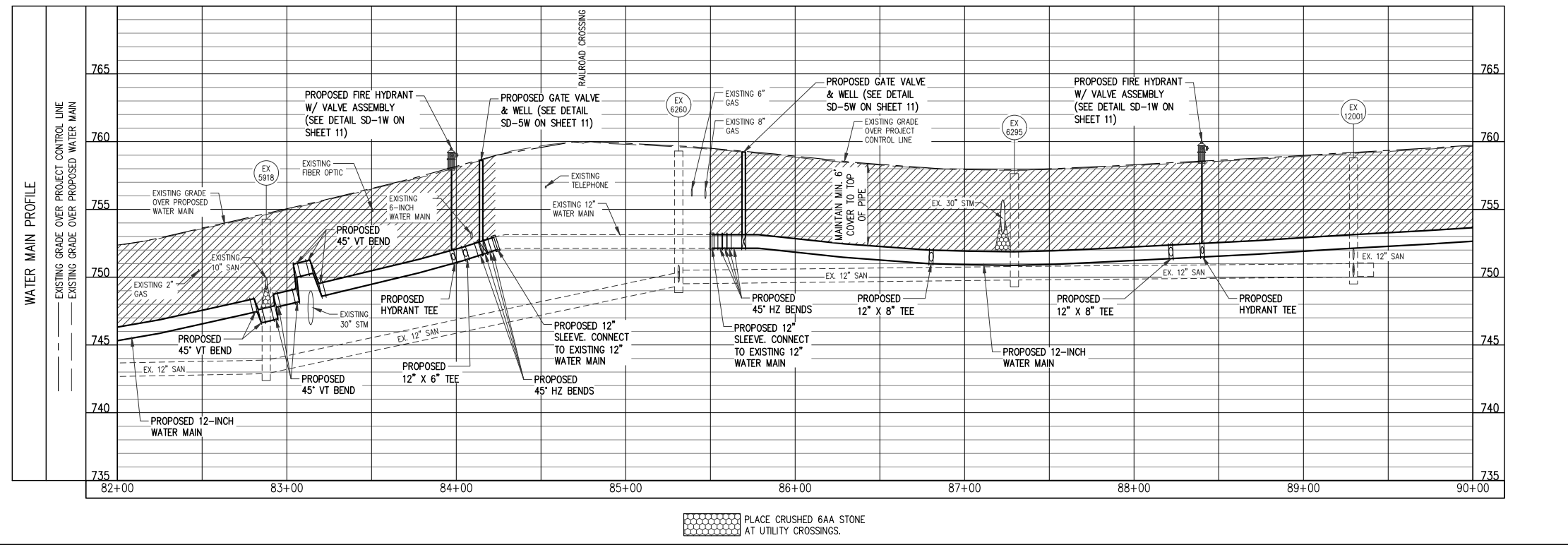
#### WATER MAIN FITTING TABLE

STATION	OFFSET	FITTING
85+55.6	15.4' L	12" 45° HZ BEND
85+58.4	2.4' R	12" 45° HZ BEND
85+58.4	12.6' L	12" 45° HZ BEND
85+60.4	15.4' L	12" CUT & PLUG
85+61.0	5.0' R	12" 45° HZ BEND
86+74.5	36.8' L	8" SLEEVE
86+74.5	21.2' L	8" CUT & PLUG
86+74.6	29.4' L	8" 45° HZ BEND
86+80.4	23.7' L	8" 45° HZ BEND
86+80.4	5.0' R	12" X 8" TEE
88+16.7	18.6' L	8" CUT & PLUG
88+16.8	32.6' L	8" SLEEVE
88+16.8	23.6' L	8" 45° HZ BEND
88+21.5	18.8' L	8" 45° HZ BEND
88+21.5	5.0' R	12" X 8" TEE
88+40.0	5.0' R	12" X 6" HYD TEE

#### WATER SERVICE SCHEDULE

ADDRESS OR TAX ID	APPROXIMATE TAP STATION	(*) REPLACED (Y) - YES, (N) - NO	SIZE (INCH)	BORED LENGTH (Ft)	OPEN CUT LENGTH (Ft)	Water Serv. - inch (Ea)	Water Serv. Long. - inch (Ea)
2931 E. COURT	82+23	N	1	30	30		1
41-09-303-019	83+93	N	1	30	10		1
3102 E. COURT	88+30	N	1	15	15	1	
3202 E. COURT	89+46	N	2	15	15	1	

- NOTES:
- THE CONTRACTOR SHALL EXCAVATE WATER SERVICES TO CONFIRM THE EXISTING WATER SERVICE SIZES AND MATERIALS PRIOR TO INSTALLING SERVICES. COST INCLUDED IN THE WATER SERVICE PAY ITEM.
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Know what's below.  
Call before you dig.

PLAN SUBMITTALS AND CHANGES	
BIDDING DOCUMENTS	
DATE	DESCRIPTION
6/5/2019	ISSUED FOR BIDS

REV: \_\_\_\_\_

SHT# 75 of 100

JOB No: 18C0137

## ROWE PROFESSIONAL SERVICES COMPANY

The Rowe Building  
540 S. Saginaw St., Suite 200  
Flint, MI 48502

PLAN DATE: JUNE 2019

PROJECT MGR: JMB

REVIEWER: TCL

SCALE: 1" = 40' HZ; 1" = 5' VT

PREPARED FOR  
CITY OF FLINT  
COURT STREET REHABILITATION  
STA. 82+00 TO STA. 90+00  
WATER MAIN PLAN AND PROFILE SHEET

FLINT: 6/6/2019 9:06 AM



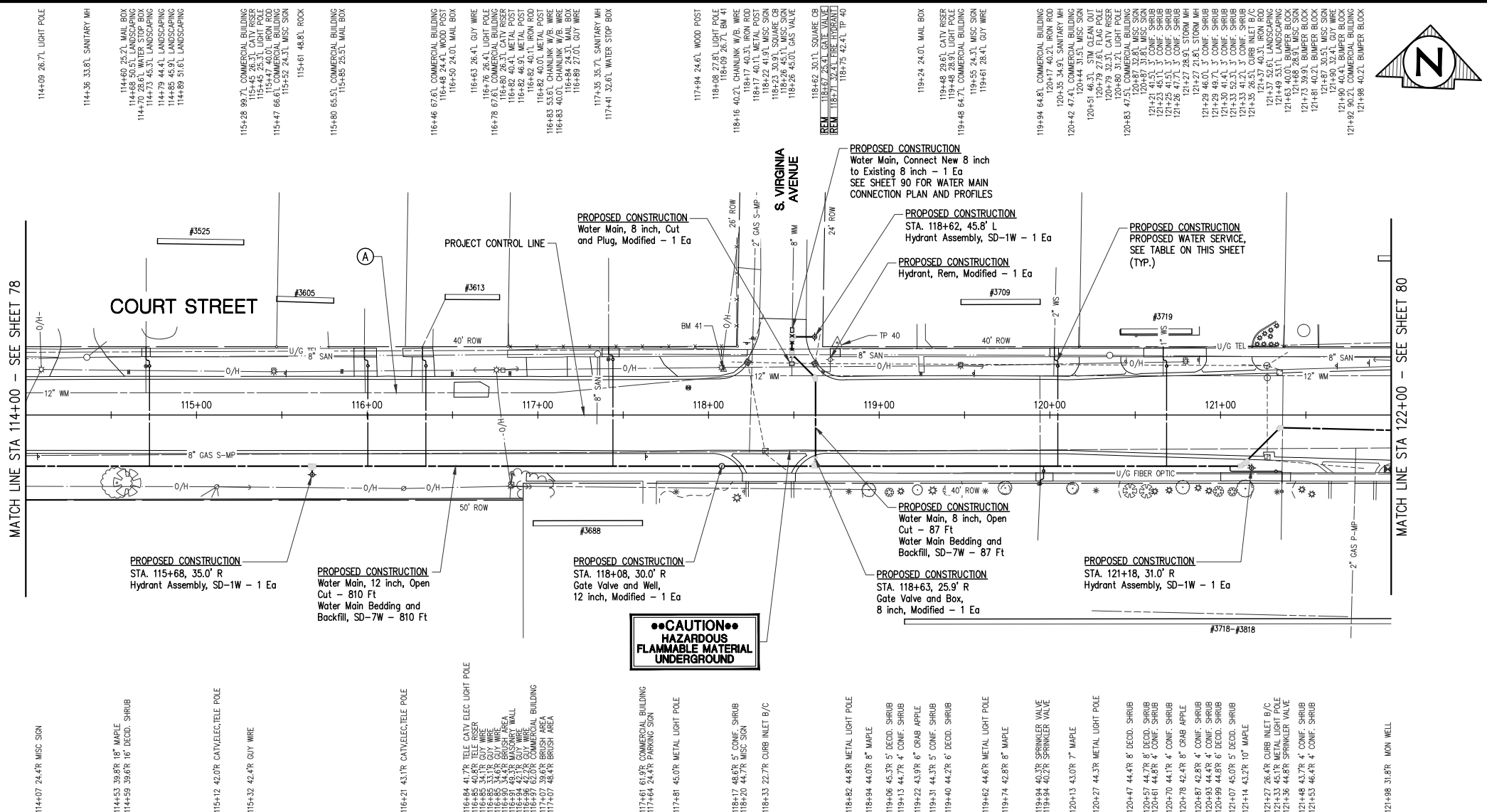












### SHEET QUANTITIES CATEGORY 3 - NON-PARTICIPATING

DESCRIPTION	QUANTITY	UNITS
Abandon Water Main, 12 inch	800	Ft
Water Main Bedding and Backfill, SD-7W	897	Ft
Water Main, 12 inch, Open Cut	810	Ft
Water Main, 8 inch, Open Cut	87	Ft
Gate Valve and Box, 8 inch, Modified	1	Ea
Gate Valve and Well, 12 inch, Modified	1	Ea
Hydrant Assembly, SD-1W	3	Ea
Hydrant, Rem, Modified	1	Ea
Water Main, 8 inch, Cut and Plug, Modified	1	Ea
Water Main, Connect New 8 inch to Existing 8 inch	1	Ea
Water Serv, 1 inch	1	Ea
Water Serv, Long, 1 inch	6	Ea
Water Serv, Long, 2 inch	1	Ea

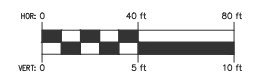
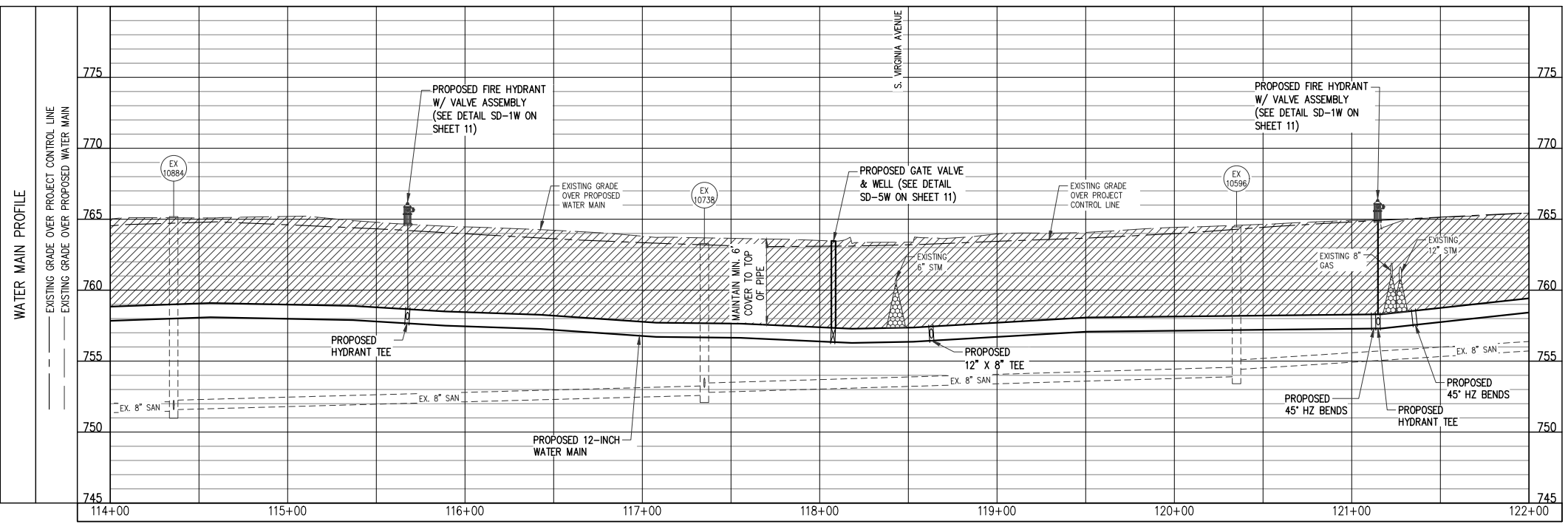
#### WATER MAIN FITTING TABLE

STATION	OFFSET	FITTING
115+67.8	30.0' R	12" X 6" HYD TEE
118+48.8	35.7' L	8" 45' HZ BEND
118+48.8	30.0' L	CUT AND PLUG
118+48.9	45.8' L	8" X 6" HYD TEE
118+49.0	51.1' L	8" SLEEVE
118+62.7	21.7' L	8" 45' HZ BEND
118+62.7	30.0' R	12" X 8" TEE
121+12.2	30.0' R	12" 45' HZ BEND
121+14.7	27.5' L	12" X 6" HYD TEE
121+34.8	7.4' R	12" 45' HZ BEND

#### WATER SERVICE SCHEDULE

ADDRESS OR TAX ID	APPROXIMATE TAP STATION	(*) REPLACED (Y) - YES, (N) - NO	SIZE (INCH)	BORED LENGTH (FT)	OPEN CUT LENGTH (FT)	Water Serv. - inch (Ea)	Water Serv. Long. - inch (Ea)
3525 E. COURT	114+72	N	1	45	30		1
3605 E. COURT	116+00	N	1	45	30		1
3613 E. COURT	116+34	N	1	45	30		1
41-09-482-025	117+44	N	1	45	30		1
3718 E. COURT	119+96	N	1	15	15	1	
3709 E. COURT	120+05	N	2	50	30		1
3719 E. COURT	120+68	N	1	50	25		1
3818 E. COURT	121+06	N	1	45	45		1

- NOTES:
- THE CONTRACTOR SHALL EXCAVATE WATER SERVICES TO CONFIRM THE EXISTING WATER SERVICE SIZES AND MATERIALS PRIOR TO INSTALLING SERVICES. COST INCLUDED IN THE WATER SERVICE PAY ITEM.
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#### PLAN SUBMITTALS AND CHANGES

DATE	DESCRIPTION
6/5/2019	ISSUED FOR BIDS

REV: \_\_\_\_\_  
 SHT# 79 of 100  
 JOB No: 18C0137

**ROWE PROFESSIONAL SERVICES COMPANY**

The Rowe Building  
 540 S. Saginaw St., Suite 200  
 Flint, MI 48502

PLAN DATE: JUNE 2019

PROJECT MGR: JMB

REVIEWER: TCL

SCALE: 1" = 40' HZ; 1" = 5' VT

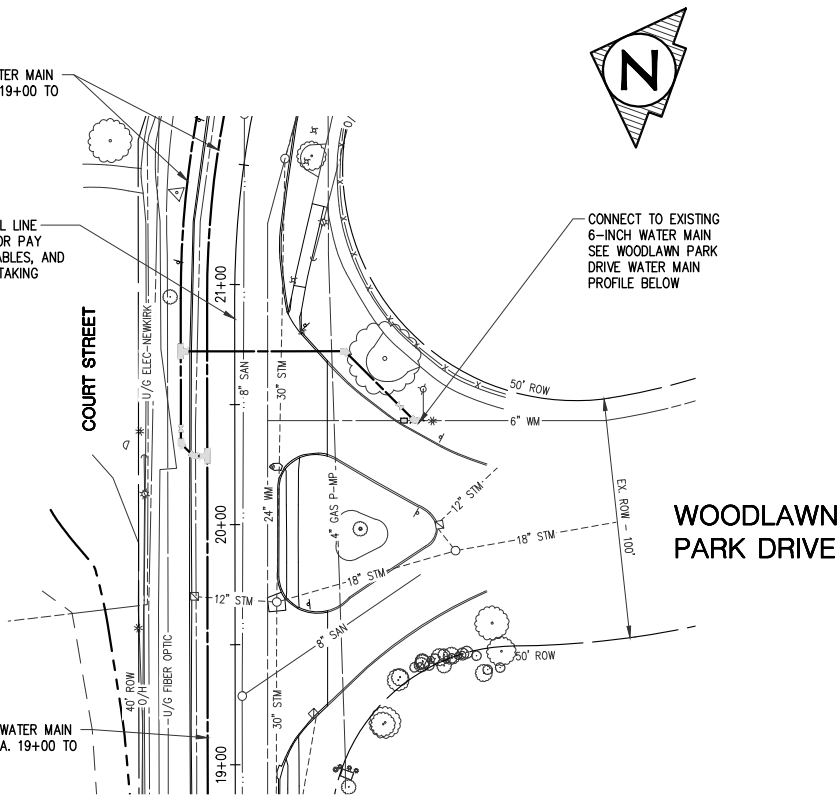
PREPARED FOR  
**CITY OF FLINT**  
**COURT STREET REHABILITATION**  
 STA. 114+00 TO STA. 122+00  
 WATER MAIN PLAN AND PROFILE SHEET





SHEET 64 FOR WATER MAIN  
PLAN SHEET STA. 19+00 TO  
STA. 27+00

PROJECT CONTROL LINE  
SEE SHEET 64 FOR PAY  
ITEMS, FITTING TABLES, AND  
CONSTRUCTION STAKING  
INFORMATION



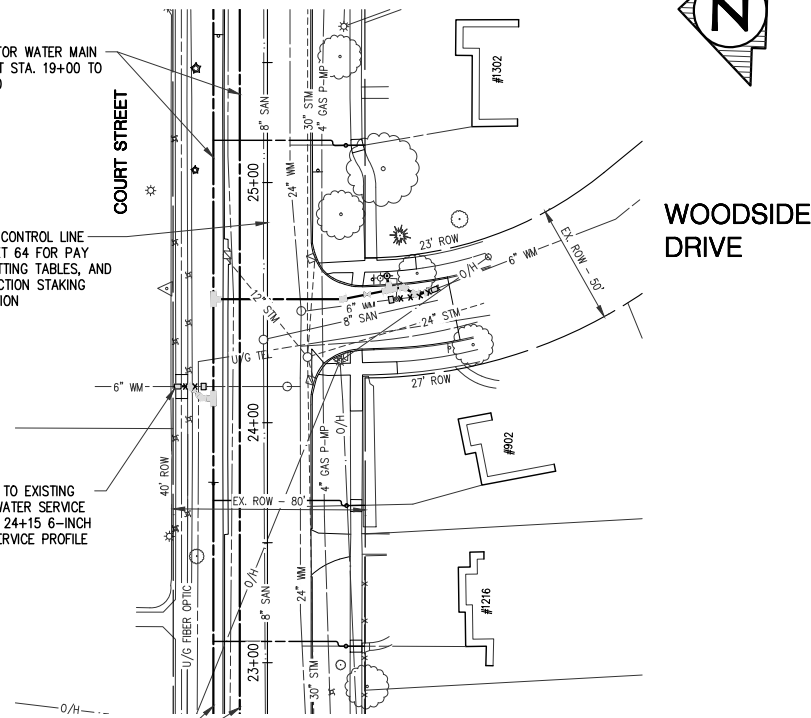
SHEET 64 FOR WATER MAIN  
PLAN SHEET STA. 19+00 TO  
STA. 27+00

SHEET 64 FOR WATER MAIN  
PLAN SHEET STA. 19+00 TO  
STA. 27+00

PROJECT CONTROL LINE  
SEE SHEET 64 FOR PAY  
ITEMS, FITTING TABLES, AND  
CONSTRUCTION STAKING  
INFORMATION

CONNECT TO EXISTING  
6-INCH WATER SERVICE  
SEE STA. 24+15 6-INCH  
WATER SERVICE PROFILE  
BELOW

SHEET 64 FOR WATER MAIN  
PLAN SHEET STA. 19+00 TO  
STA. 27+00

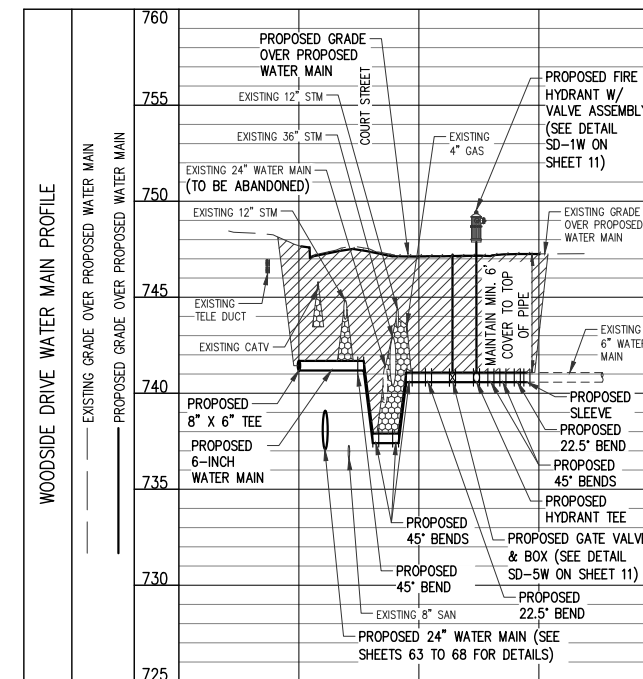
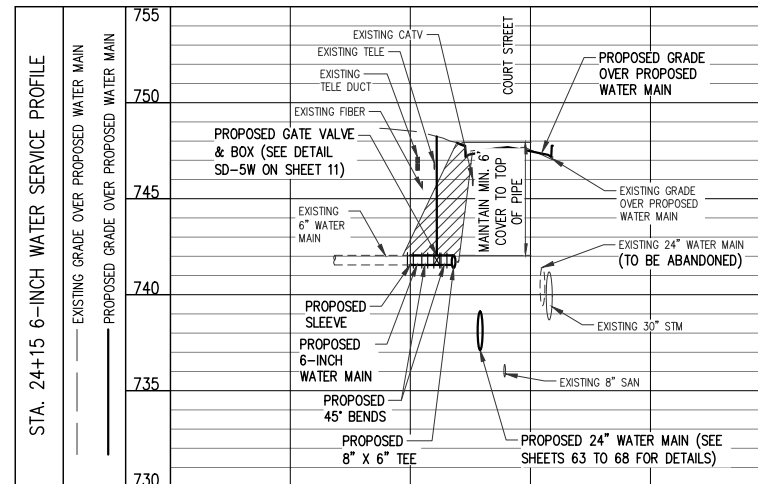
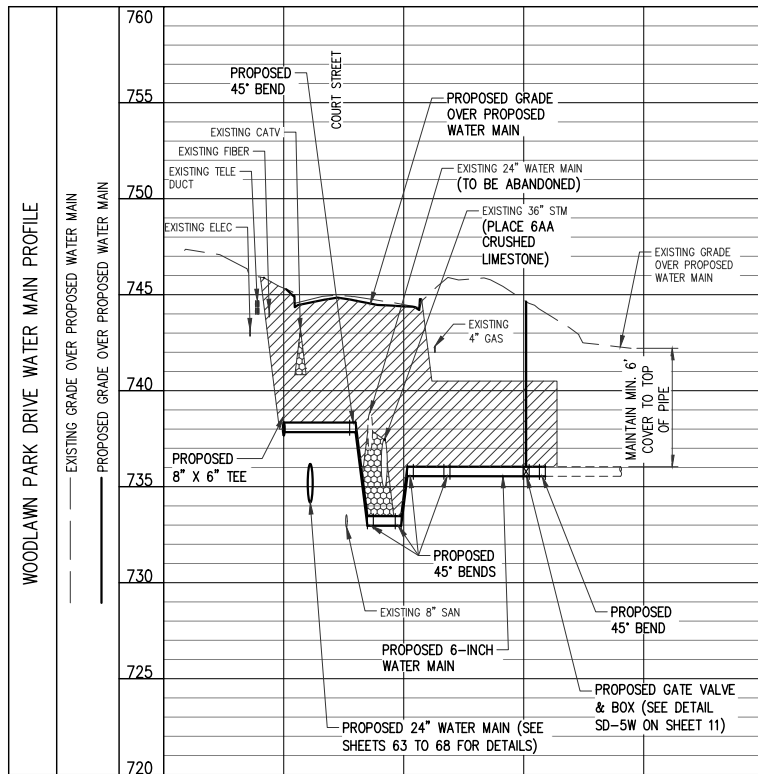
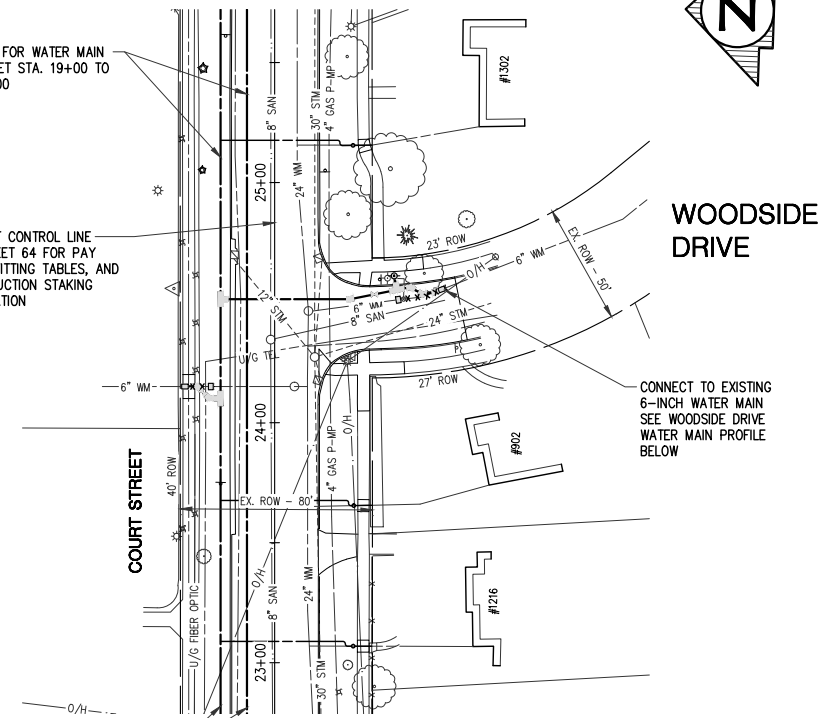


SHEET 64 FOR WATER MAIN  
PLAN SHEET STA. 19+00 TO  
STA. 27+00

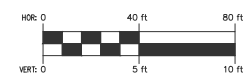
PROJECT CONTROL LINE  
SEE SHEET 64 FOR PAY  
ITEMS, FITTING TABLES, AND  
CONSTRUCTION STAKING  
INFORMATION

CONNECT TO EXISTING  
6-INCH WATER MAIN  
SEE WOODSIDE DRIVE  
WATER MAIN PROFILE  
BELOW

SHEET 64 FOR WATER MAIN  
PLAN SHEET STA. 19+00 TO  
STA. 27+00



PLACE CRUSHED 6AA STONE  
AT UTILITY CROSSINGS.



Know what's below.  
Call before you dig.

**PLAN SUBMITTALS AND CHANGES**

BIDDING DOCUMENTS	
DATE	DESCRIPTION
6/5/2019	ISSUED FOR BIDS

PLAN DATE: JUNE 2019  
PROJECT MGR: JMB  
REVIEWER: TCL  
SCALE: 1" = 40' HZ; 1" = 5' VT

**ROWE PROFESSIONAL SERVICES COMPANY**

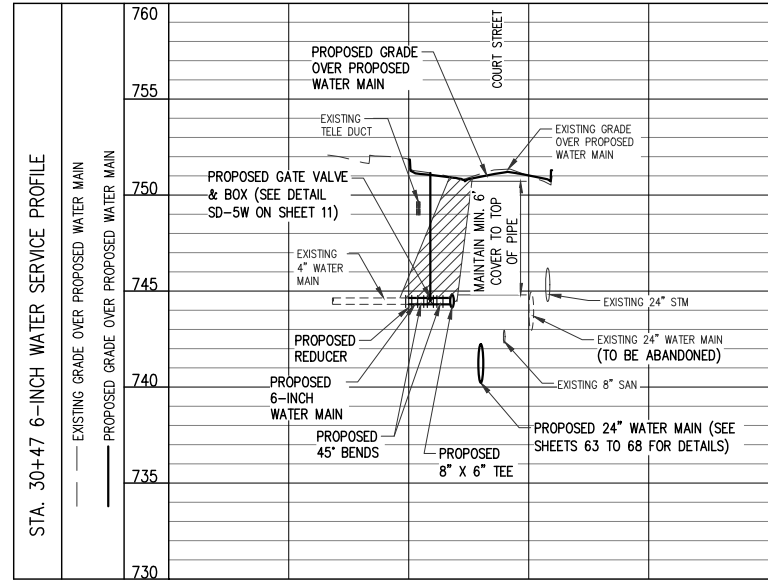
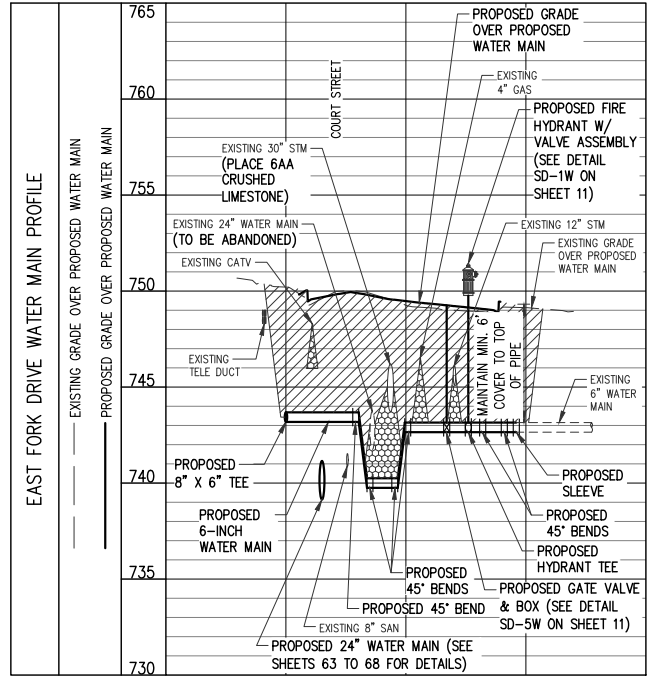
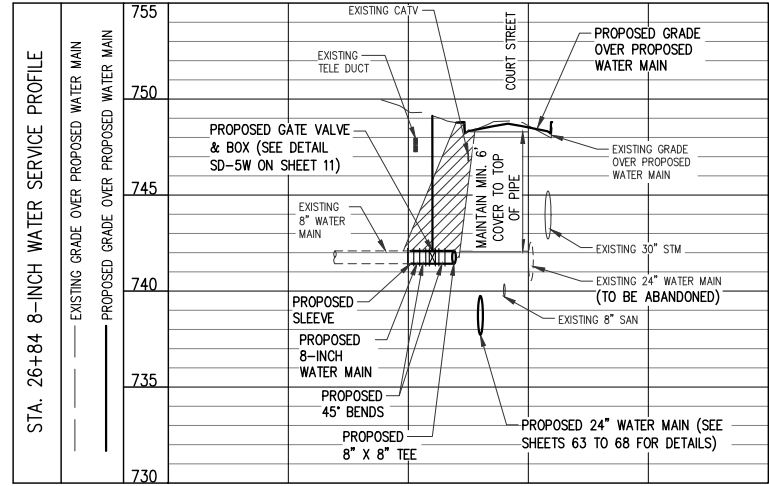
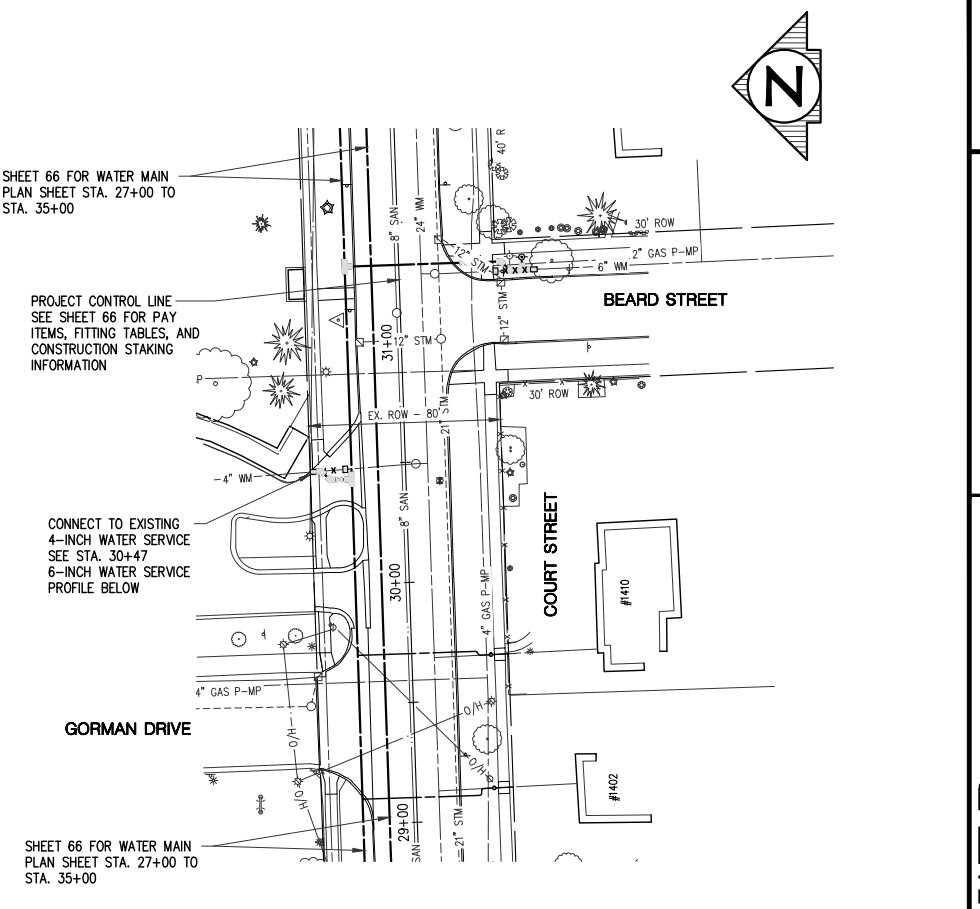
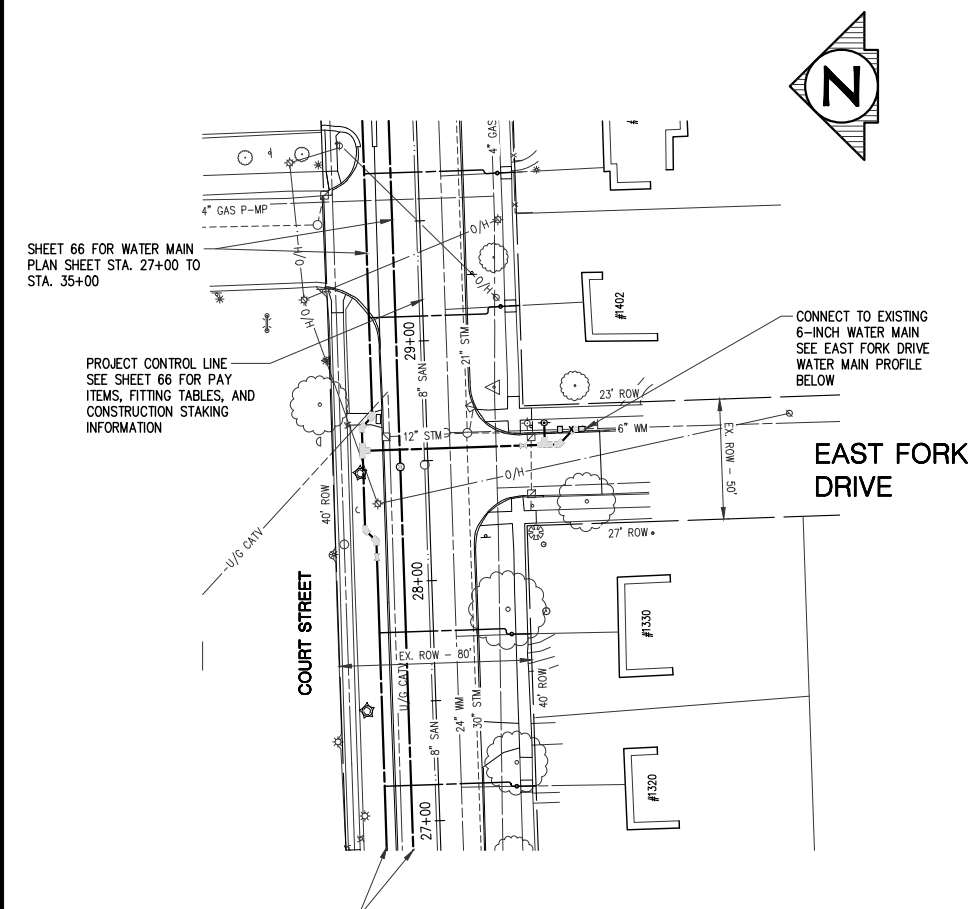
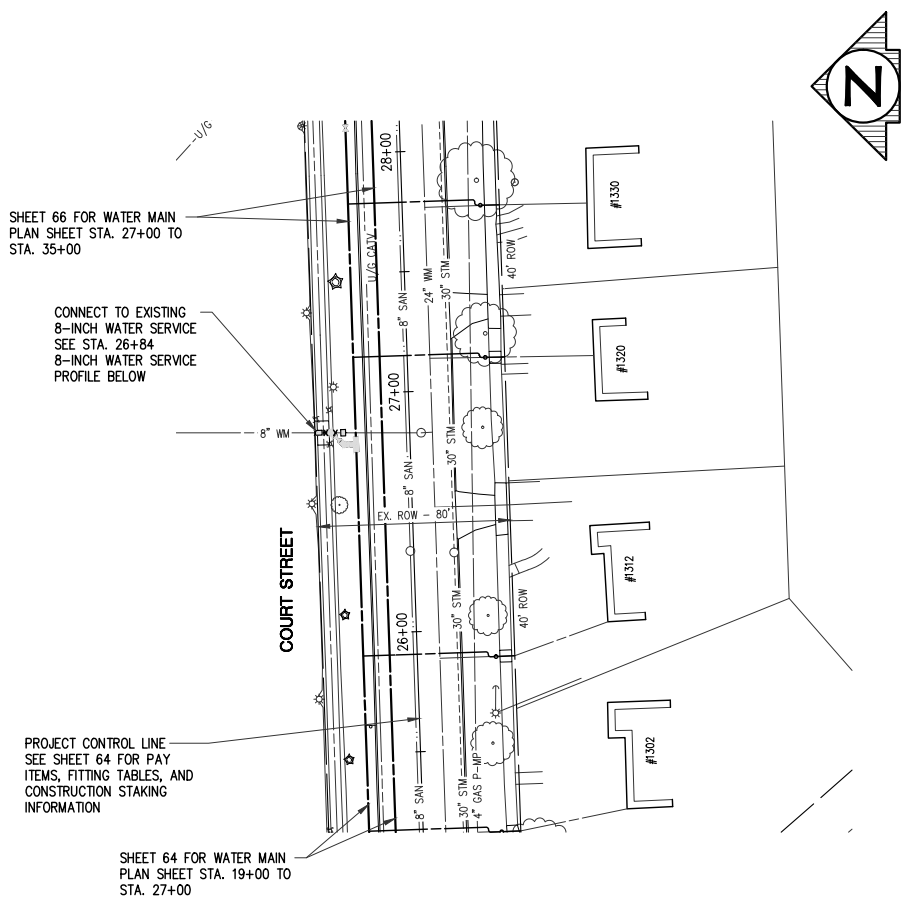
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The Rowe Building  
540 S. Saginaw St., Suite 200  
Flint, MI 48502

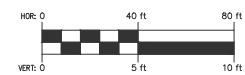
PREPARED FOR  
**CITY OF FLINT**  
**COURT STREET REHABILITATION**  
WOODLAWN PARK DR. STA. 24+15 SERVICE & WOODSIDE DR.  
WATER MAIN CONNECTION PLAN AND PROFILES

REV: \_\_\_\_\_  
SHT# 81 of 100  
JOB No: 18C0137

Fl: Projects\180317\Drawings\180317-MPR\_CROSSINGS.PBE TO DOR.dwg  
PLOTED: 6/6/2019 9:08 AM



PLACE CRUSHED 6AA STONE AT UTILITY CROSSINGS.



PLAN SUBMITTALS AND CHANGES	
BIDDING DOCUMENTS	
DATE	DESCRIPTION
6/5/2019	ISSUED FOR BIDS

PLAN DATE: JUNE 2019  
PROJECT MGR: JMB  
REVIEWER: TCL  
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**ROWE PROFESSIONAL SERVICES COMPANY**  
O: (810) 341-7500  
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www.rowepsc.com



PREPARED FOR  
**CITY OF FLINT**  
**COURT STREET REHABILITATION**  
STA. 26+84 SERVICE, EAST FORK DR & STA. 30+47 SERVICE  
WATERMAIN CONNECTION PLAN AND PROFILES

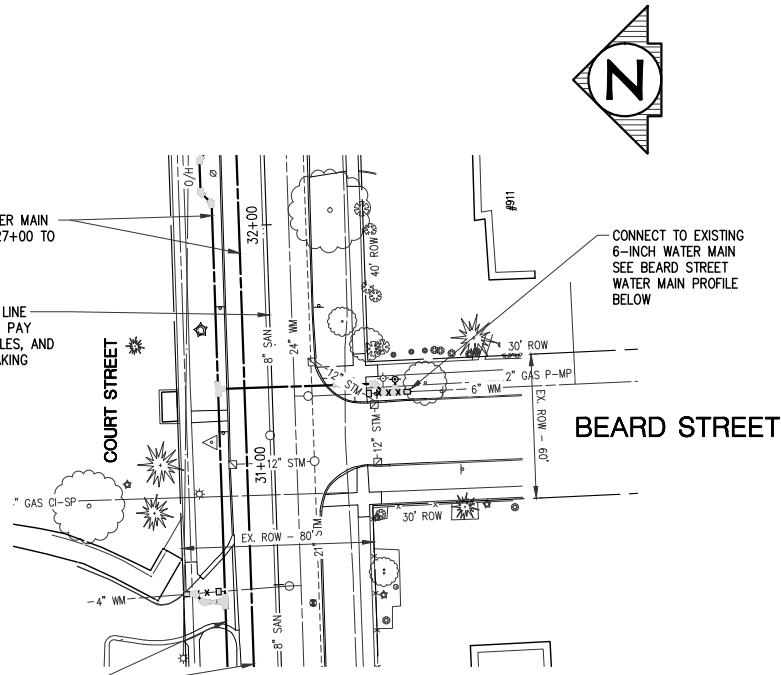


REV: \_\_\_\_\_  
SHT# 82 OF 100  
JOB No: 18C0137



SHEET 66 FOR WATER MAIN  
PLAN SHEET STA. 27+00 TO  
STA. 35+00

PROJECT CONTROL LINE  
SEE SHEET 66 FOR PAY  
ITEMS, FITTING TABLES, AND  
CONSTRUCTION STAKING  
INFORMATION



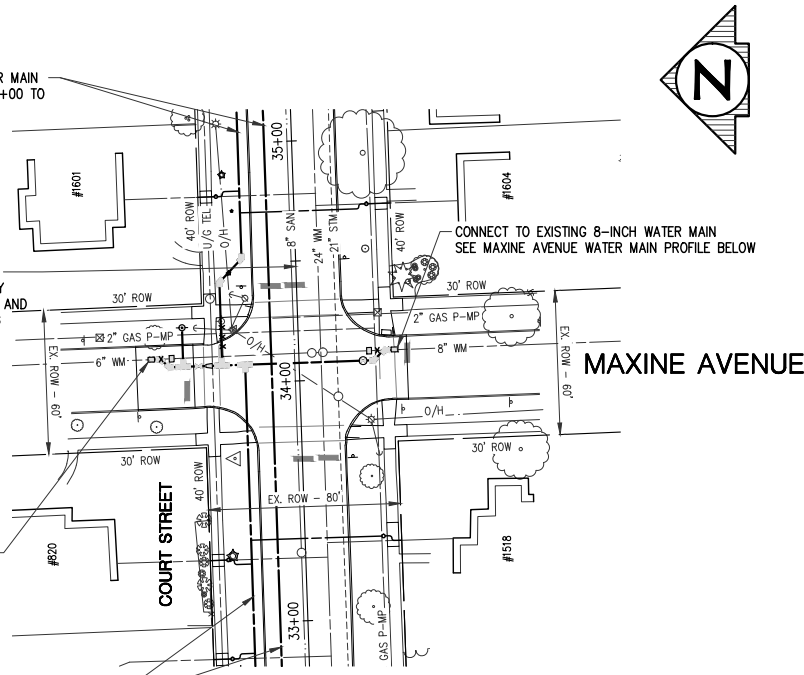
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PLAN SHEET STA. 27+00 TO  
STA. 35+00

SHEET 68 FOR WATER MAIN  
PLAN SHEET STA. 35+00 TO  
STA. 43+00

PROJECT CONTROL LINE  
SEE SHEET 68 FOR PAY  
ITEMS, FITTING TABLES, AND  
CONSTRUCTION STAKING  
INFORMATION

CONNECT TO EXISTING  
6-INCH WATER MAIN  
SEE MAXINE AVENUE  
WATER MAIN PROFILE BELOW

SHEET 66 FOR WATER MAIN  
PLAN SHEET STA. 27+00 TO  
STA. 35+00

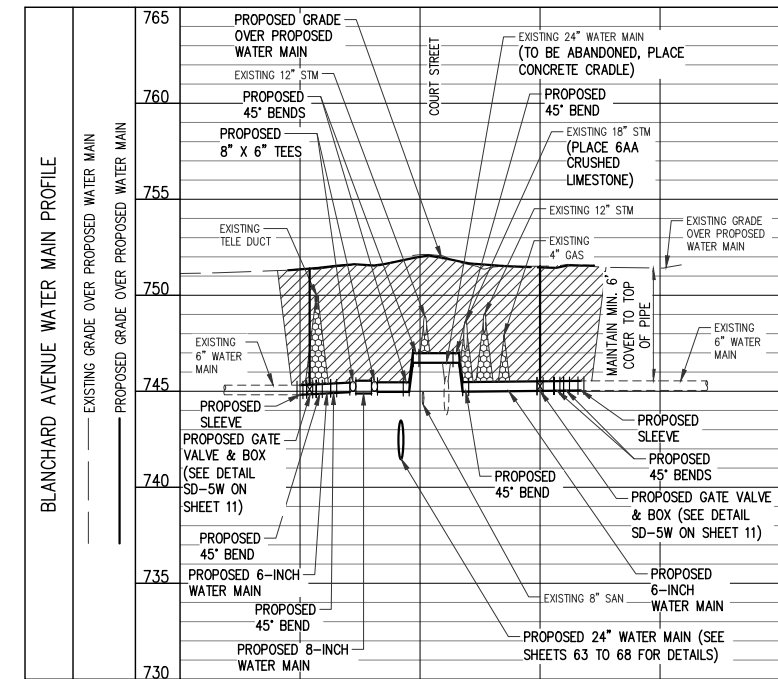
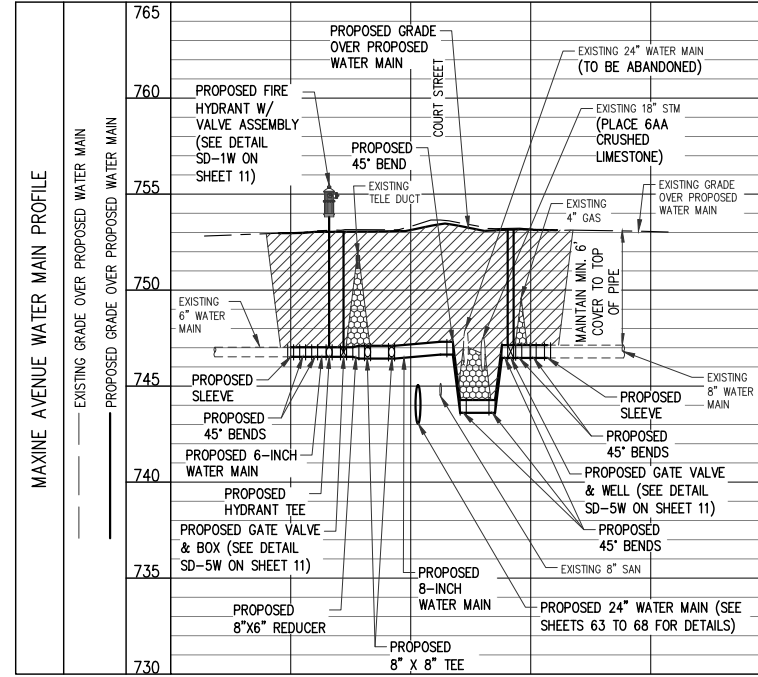
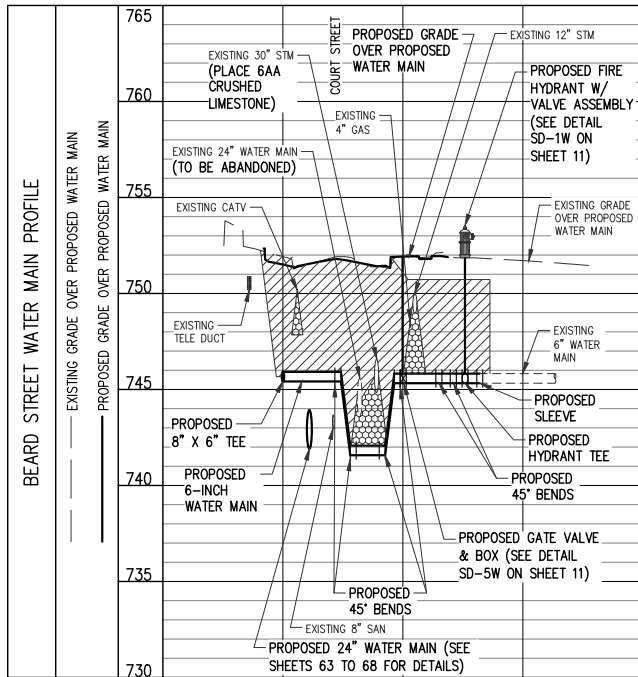
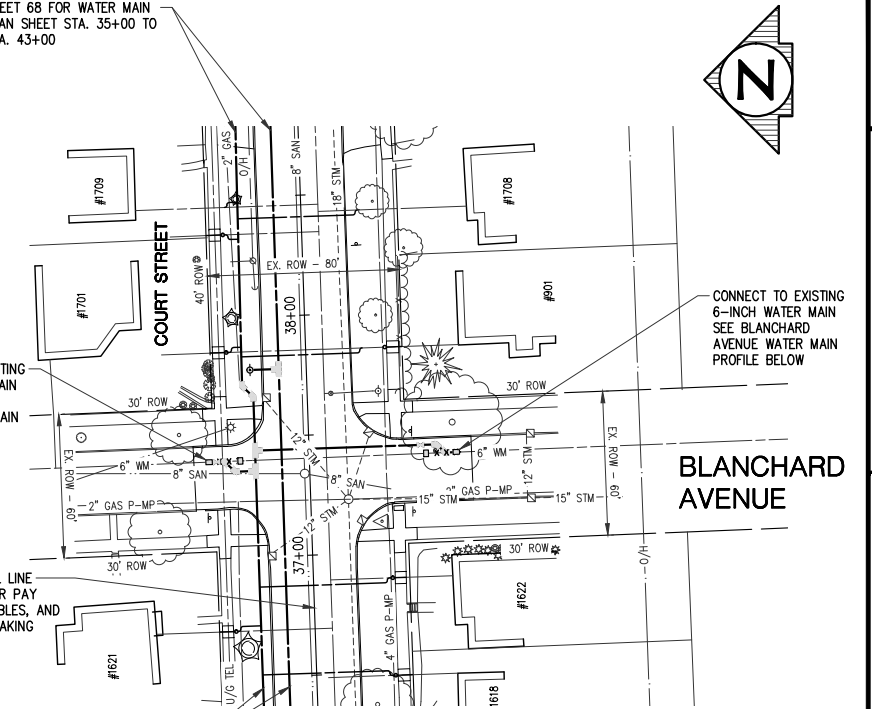


SHEET 68 FOR WATER MAIN  
PLAN SHEET STA. 35+00 TO  
STA. 43+00

CONNECT TO EXISTING  
6-INCH WATER MAIN  
SEE BLANCHARD  
AVENUE WATER MAIN  
PROFILE BELOW

PROJECT CONTROL LINE  
SEE SHEET 68 FOR PAY  
ITEMS, FITTING TABLES, AND  
CONSTRUCTION STAKING  
INFORMATION

SHEET 68 FOR WATER MAIN  
PLAN SHEET STA. 35+00 TO  
STA. 43+00



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AT UTILITY CROSSINGS.



**PLAN SUBMITTALS AND CHANGES**

BIDDING DOCUMENTS	
DATE	DESCRIPTION
6/5/2019	ISSUED FOR BIDS

REV: \_\_\_\_\_  
SHT# 83 of 100  
JOB No: 18C0137

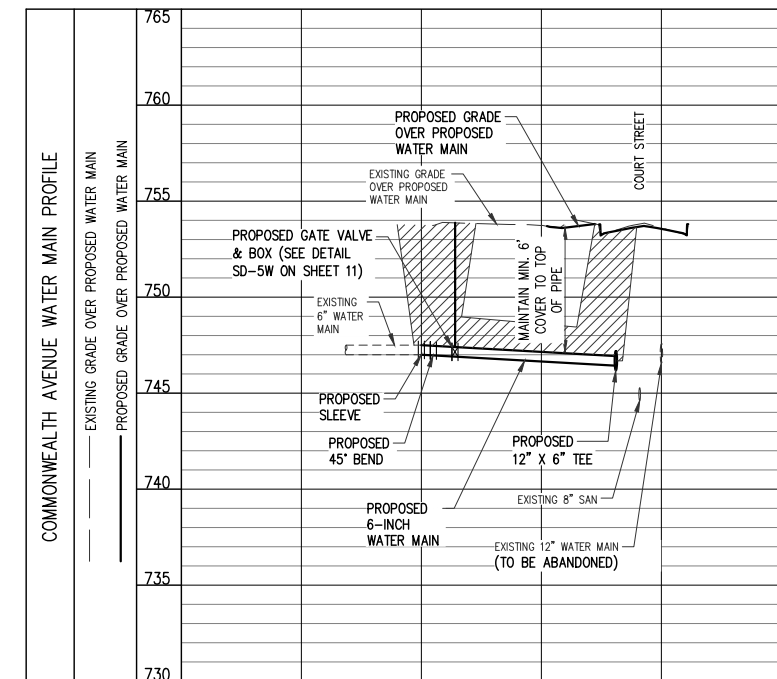
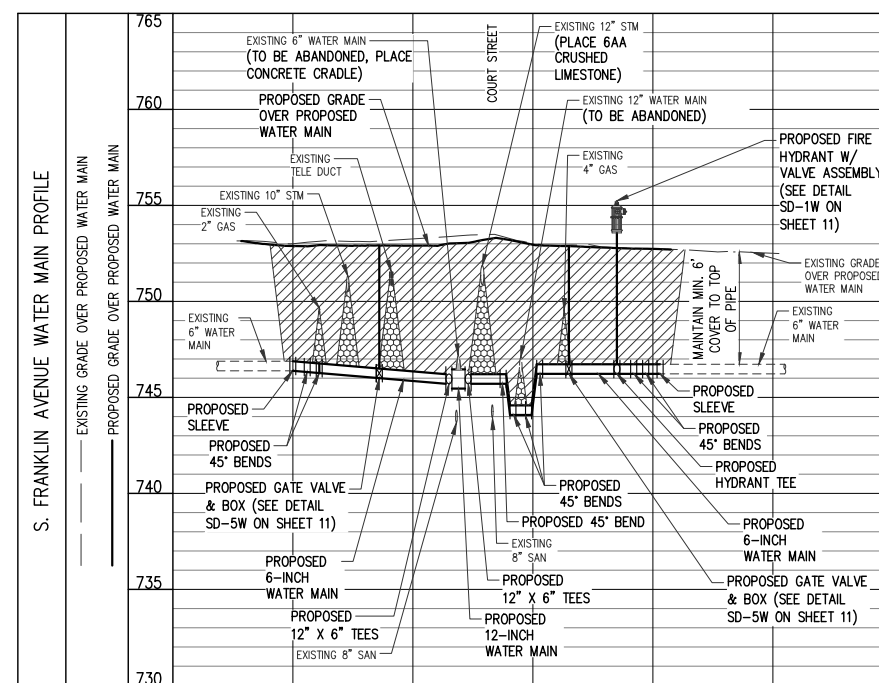
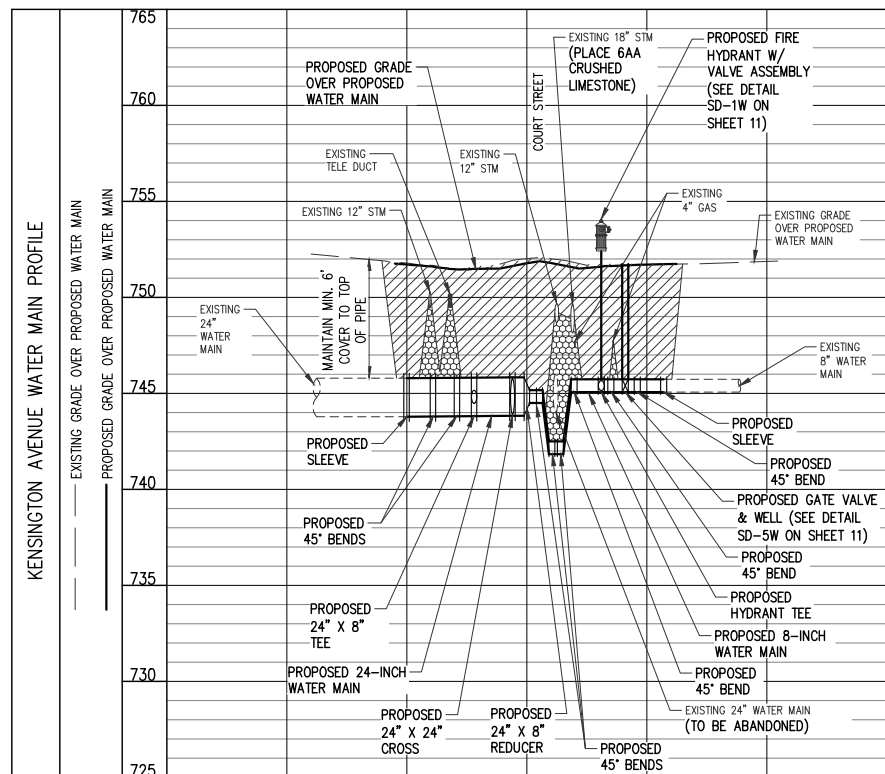
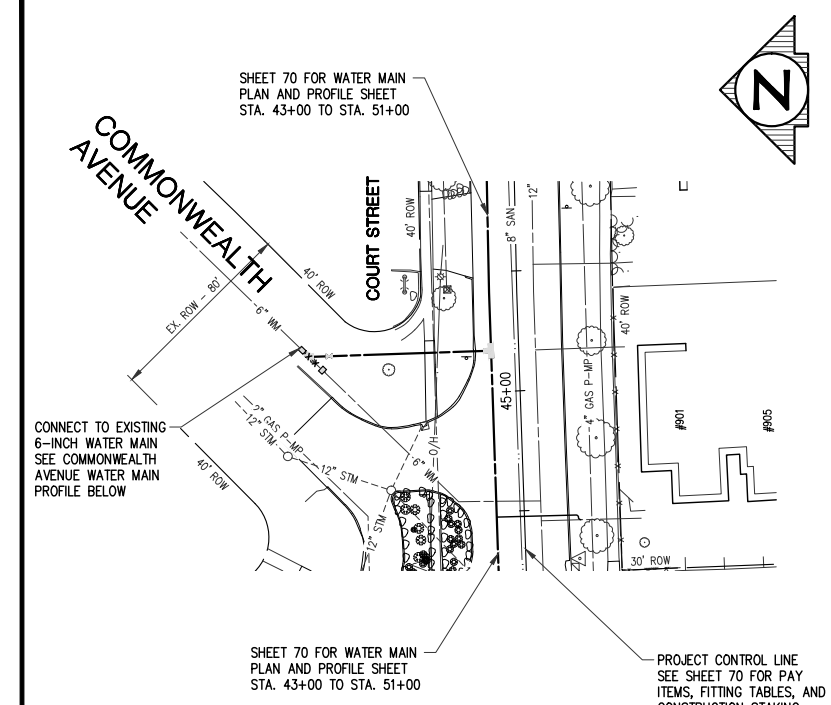
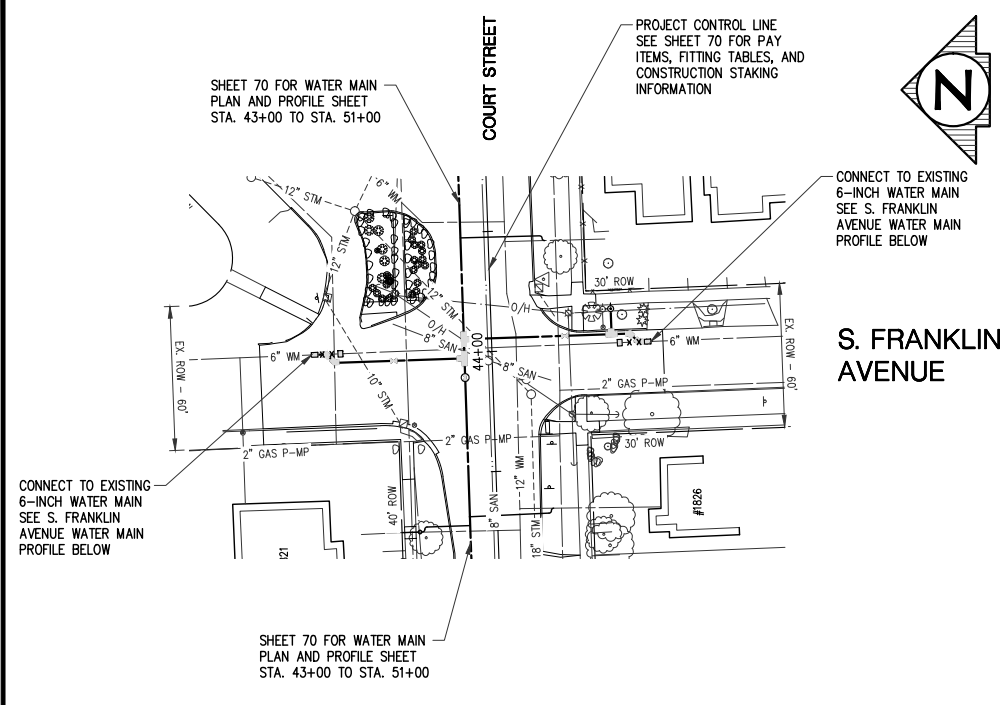
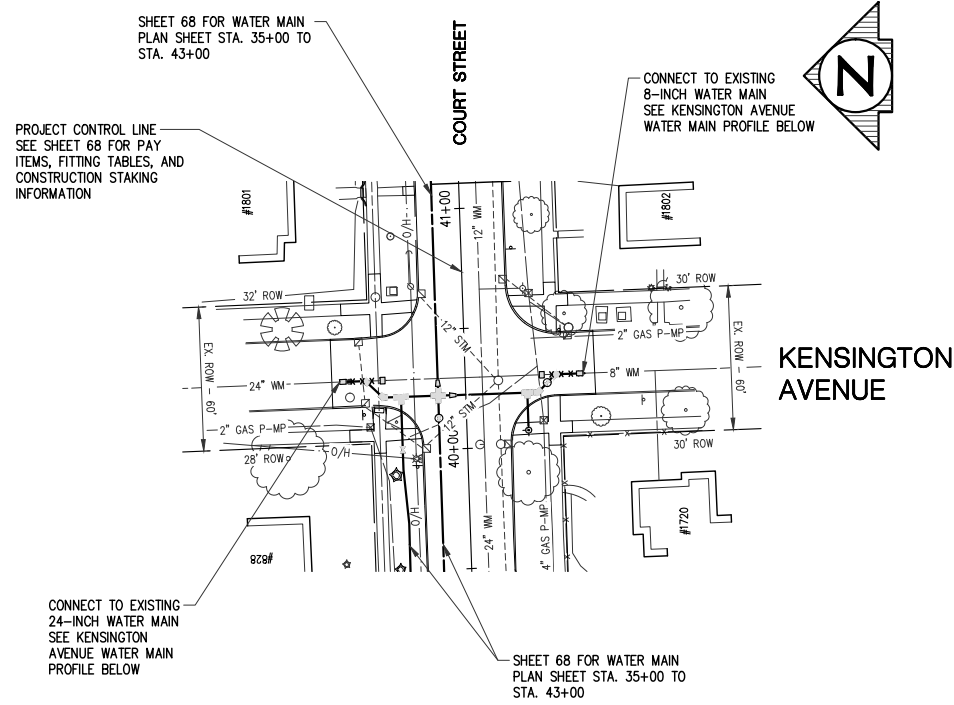
**ROWE PROFESSIONAL SERVICES COMPANY**  
The Rowe Building  
540 S. Saginaw St., Suite 200  
Flint, MI 48502

PLAN DATE: JUNE 2019  
PROJECT MGR: JMB  
REVIEWER: TCL  
SCALE: 1" = 40' HZ; 1" = 5' VT

PREPARED FOR  
**CITY OF FLINT**  
**COURT STREET REHABILITATION**  
BEARD ST, MAXINE AVE & BLANCHARD AVE  
WATER MAIN CONNECTION PLAN AND PROFILES



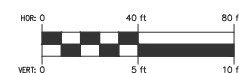
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PLAN SUBMITTALS AND CHANGES	
BIDDING DOCUMENTS	
DATE	DESCRIPTION
6/5/2019	ISSUED FOR BIDS

PLAN DATE: JUNE 2019  
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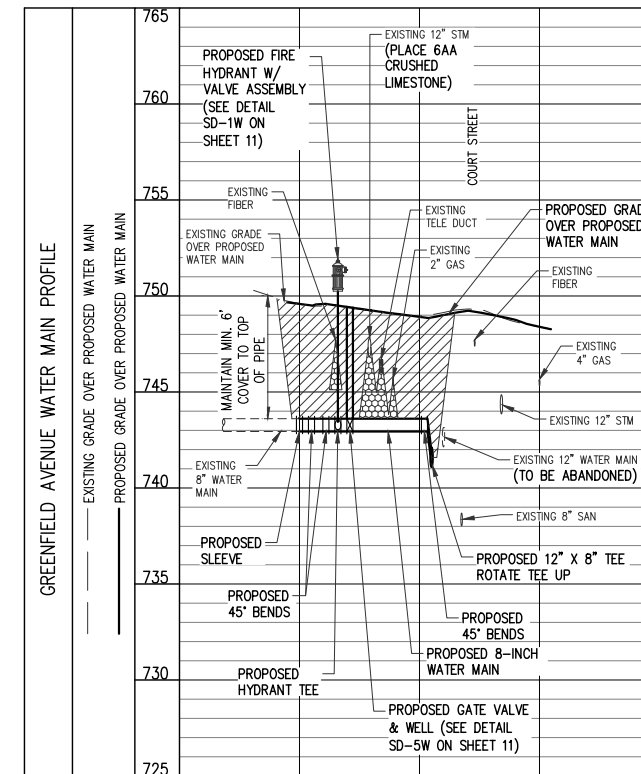
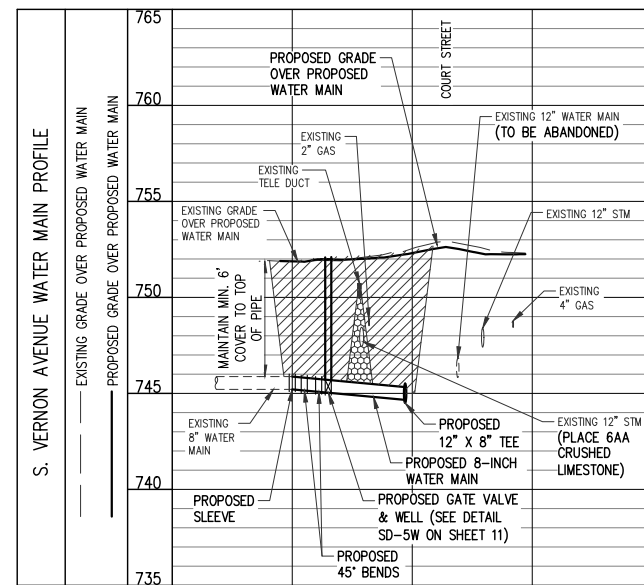
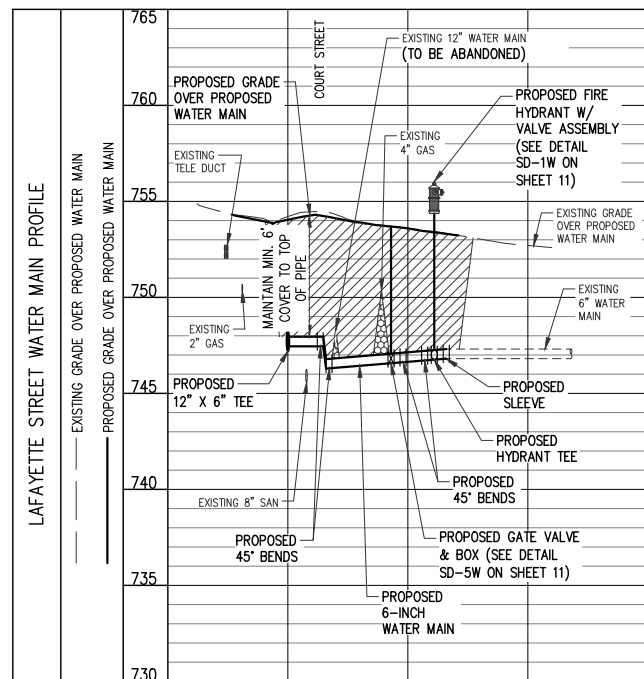
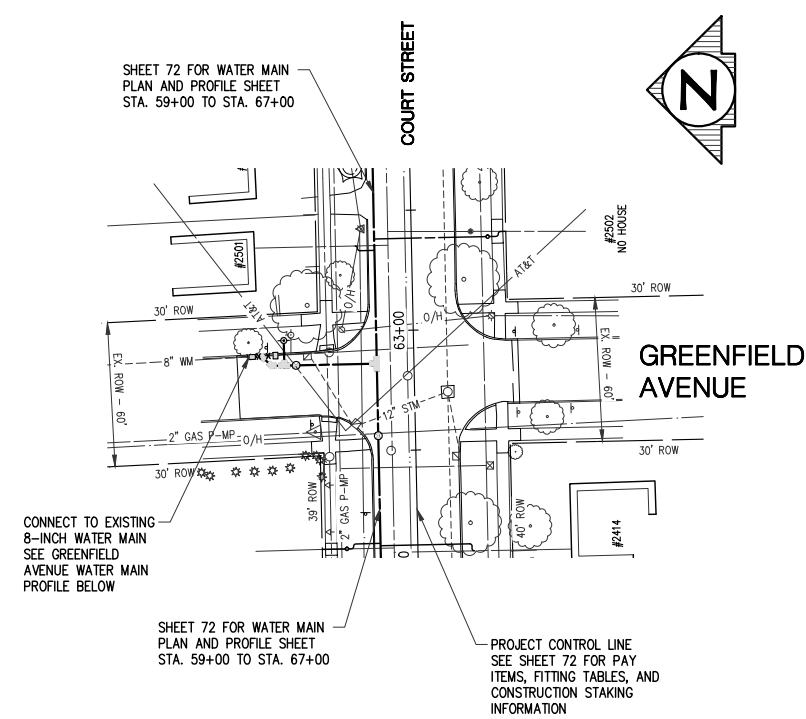
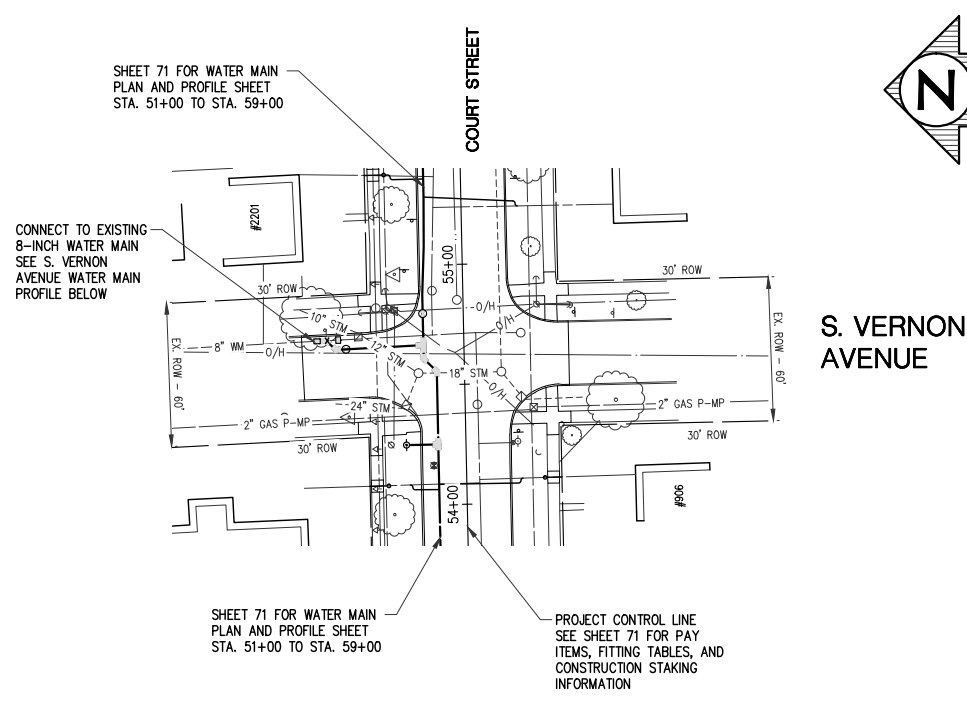
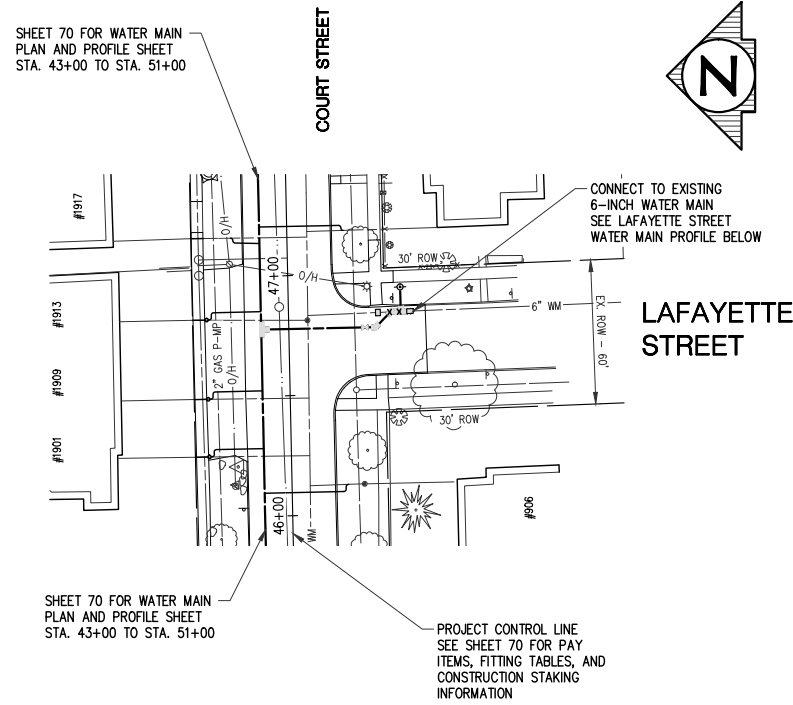
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**COURT STREET REHABILITATION**  
 KENSINGTON, FRANKLIN & COMMONWEALTH  
 WATER MAIN CONNECTION PLAN AND PROFILES

REV: \_\_\_\_\_  
 SHT# 84 of 100  
 JOB No: 18C0137

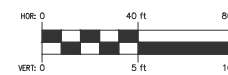




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PLAN SUBMITTALS AND CHANGES

BIDDING DOCUMENTS	
DATE	DESCRIPTION
6/5/2019	ISSUED FOR BIDS

REV:

SHT# 85 of 100  
JOB No: 18C0137

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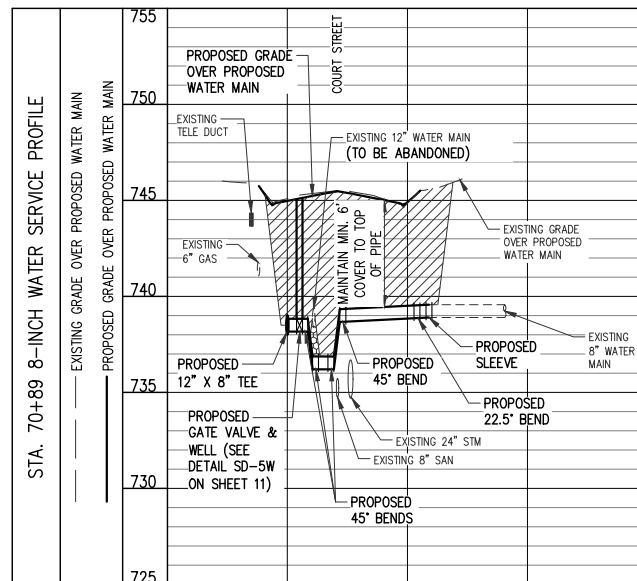
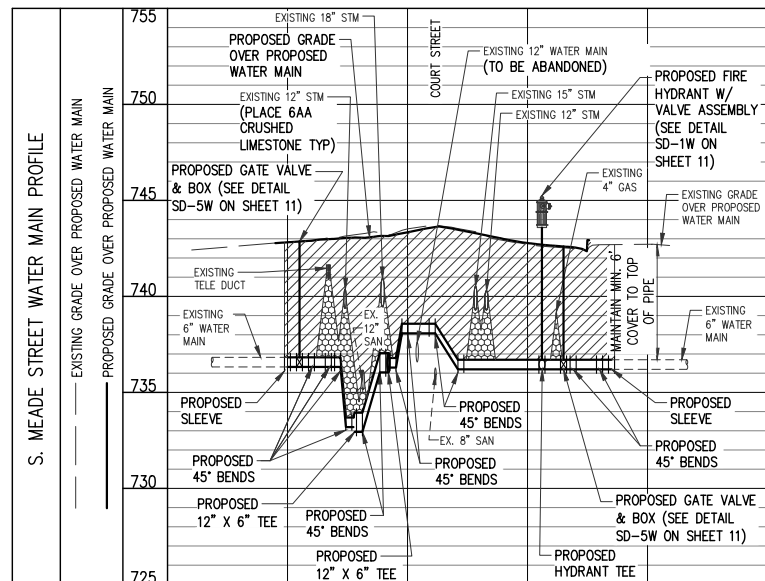
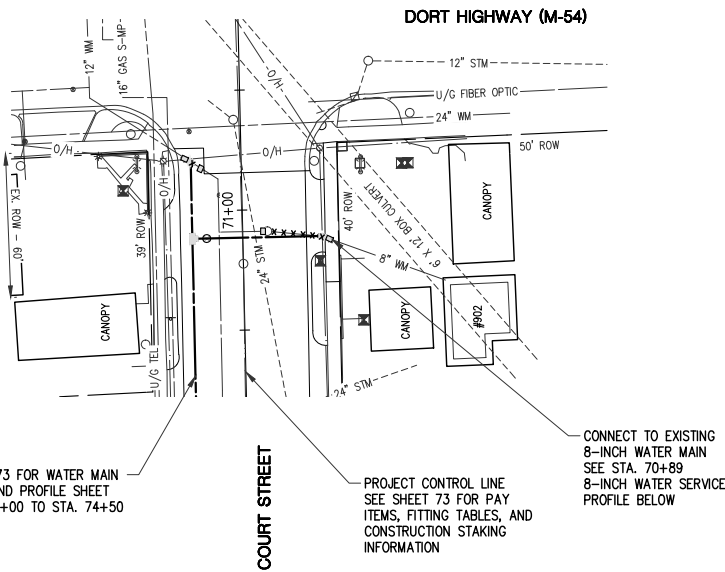
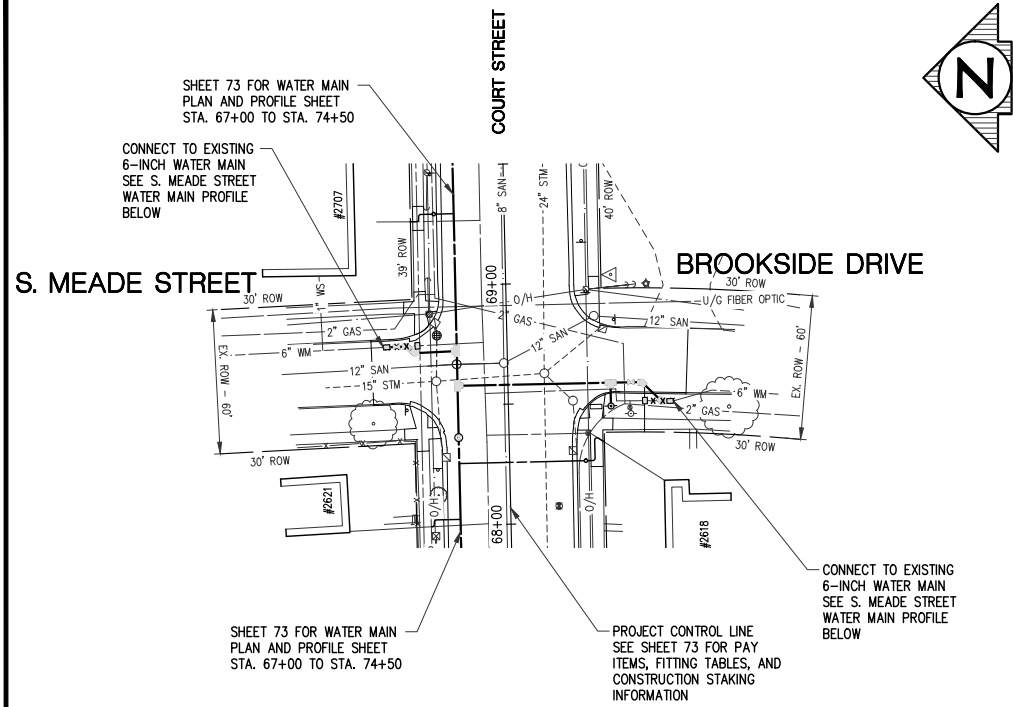


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LAFAYETTE ST, VERNON AVE & GREENFIELD AVE  
WATER MAIN CONNECTION PLAN AND PROFILES

PLAN DATE: JUNE 2019  
PROJECT MGR: JMB  
REVIEWER: TCL  
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BIDDING DOCUMENTS	
DATE	DESCRIPTION
6/5/2019	ISSUED FOR BIDS

REV:

SHT# 86 OF 100  
JOB No: 18C0137

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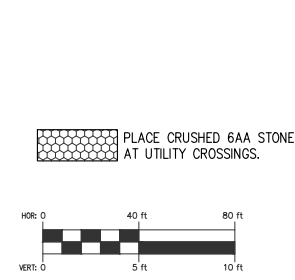
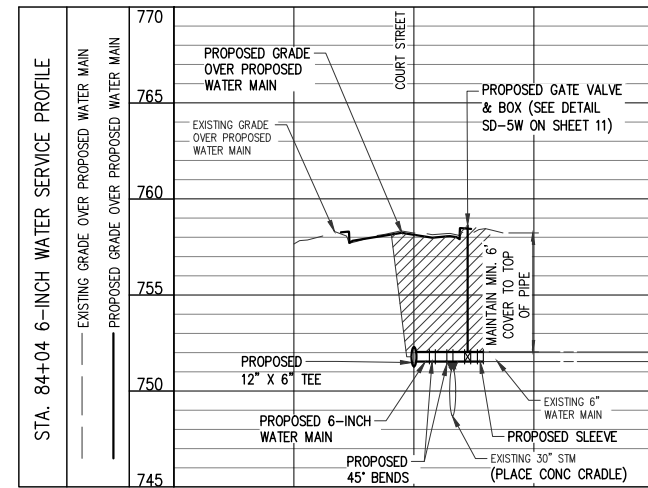
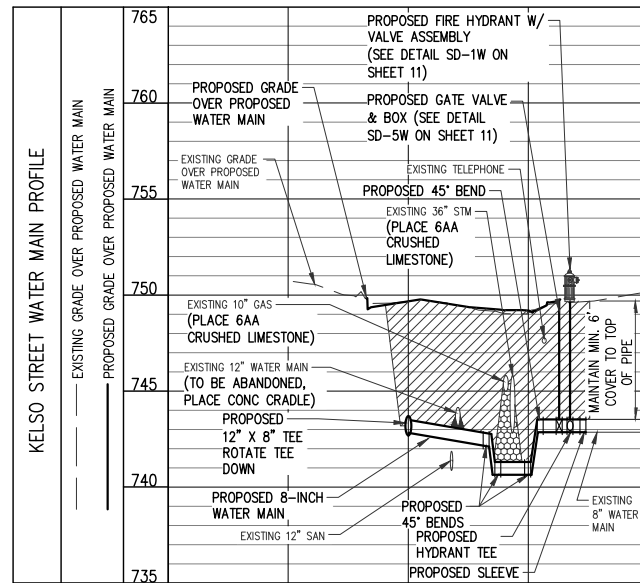
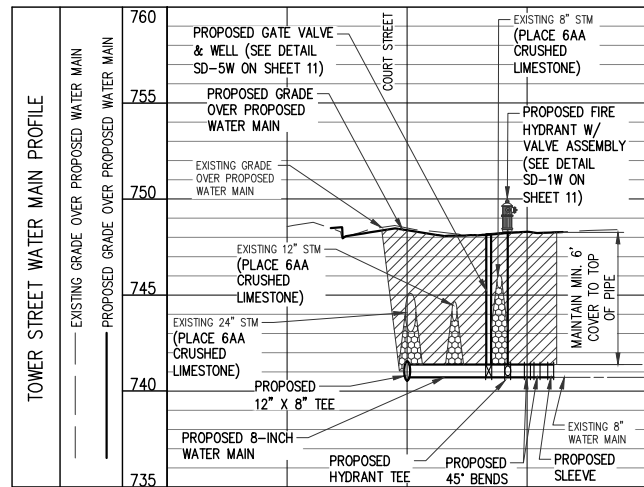
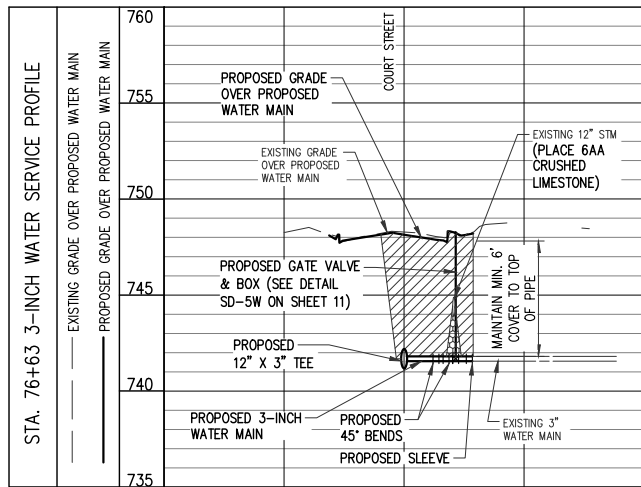


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PLAN DATE: JUNE 2019  
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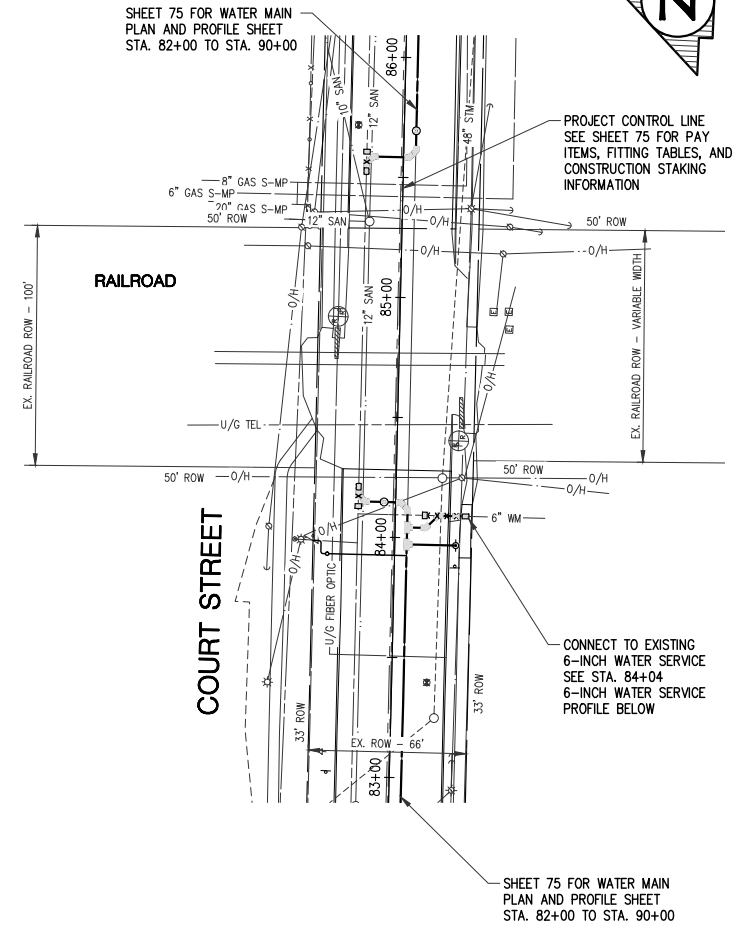
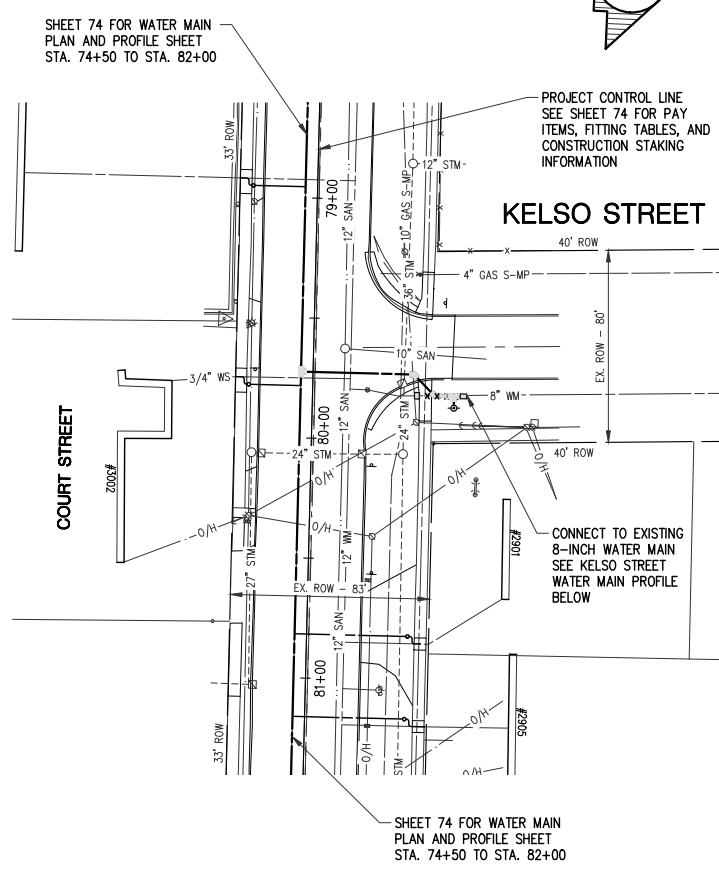
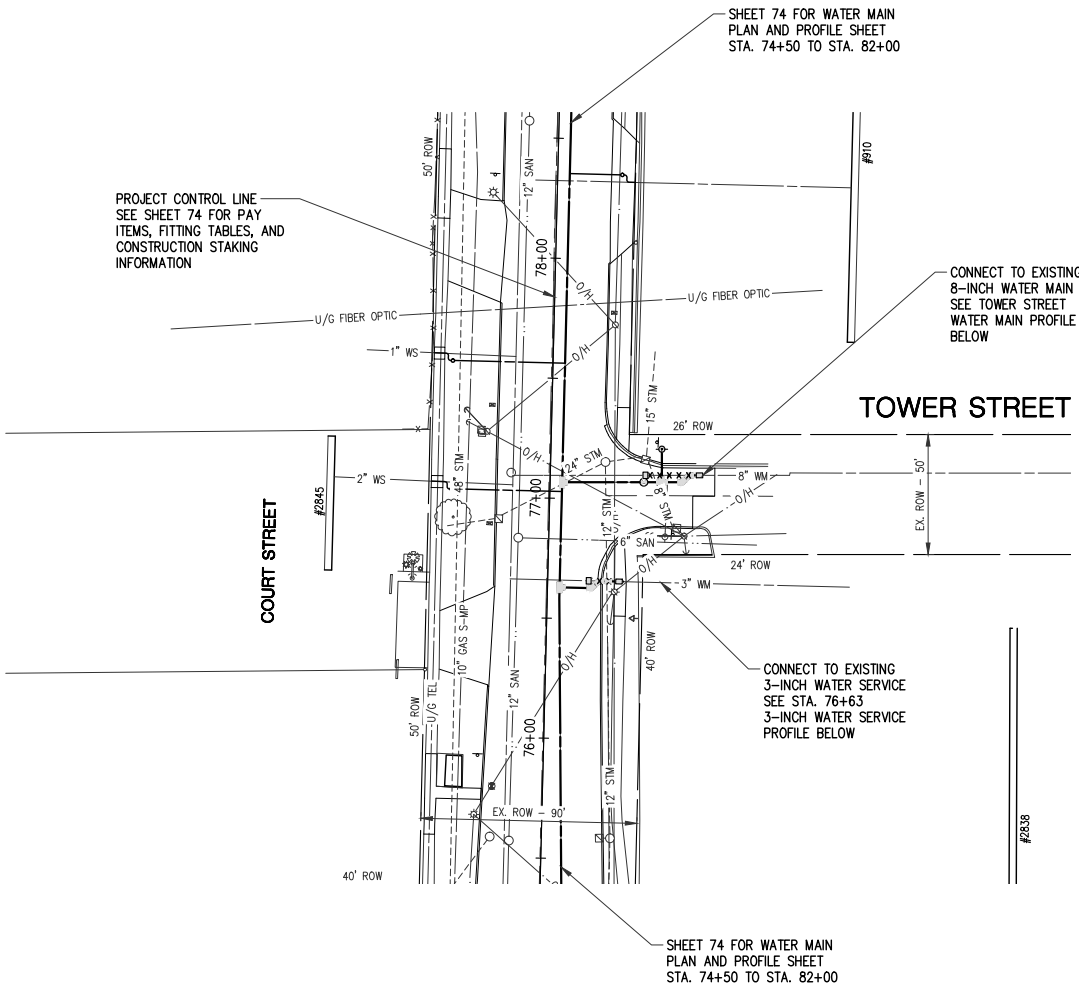
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COURT STREET REHABILITATION  
S. MEADE ST & STA. 70+89 SERVICE  
WATER MAIN CONNECTION PLAN AND PROFILES





**PLAN SUBMITTALS AND CHANGES**

BIDDING DOCUMENTS	
DATE	DESCRIPTION
6/5/2019	ISSUED FOR BIDS



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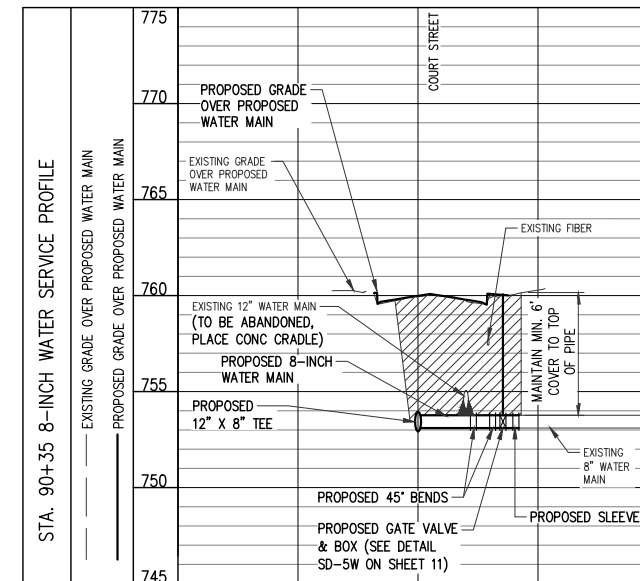
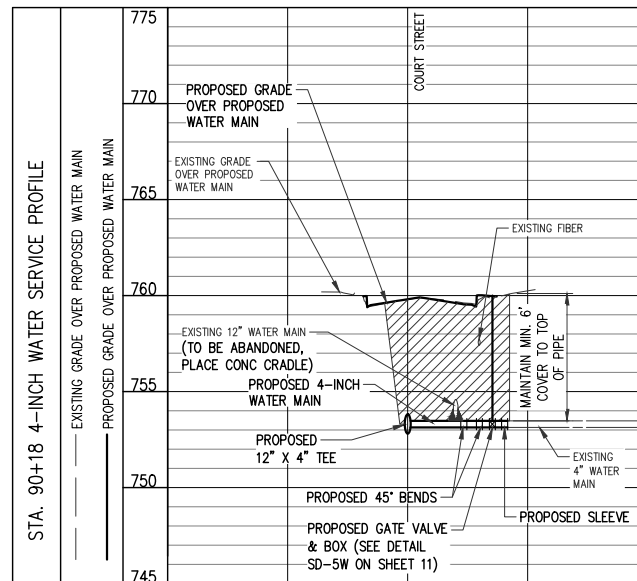
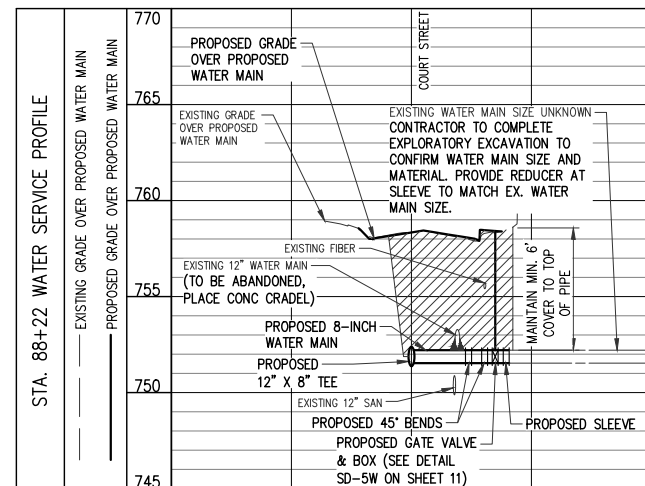
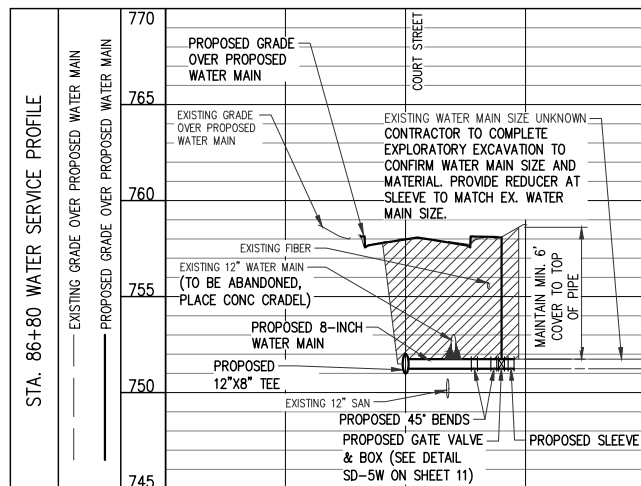
PREPARED FOR  
**CITY OF FLINT**  
**COURT STREET REHABILITATION**  
STA. 76+63 SERVICE, TOWER ST, KELSO ST & STA. 84+04 SERVICE  
WATER MAIN CONNECTION PLAN AND PROFILES

PLAN DATE: JUNE 2019  
PROJECT MGR: JMB  
REVIEWER: TCL  
SCALE: 1" = 40' HZ; 1" = 5' VT

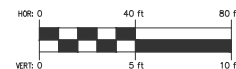
REV: \_\_\_\_\_

SHT# 87 OF 100  
JOB No: 18C0137

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**PLAN SUBMITTALS AND CHANGES**

BIDDING DOCUMENTS	
DATE	DESCRIPTION
6/5/2019	ISSUED FOR BIDS

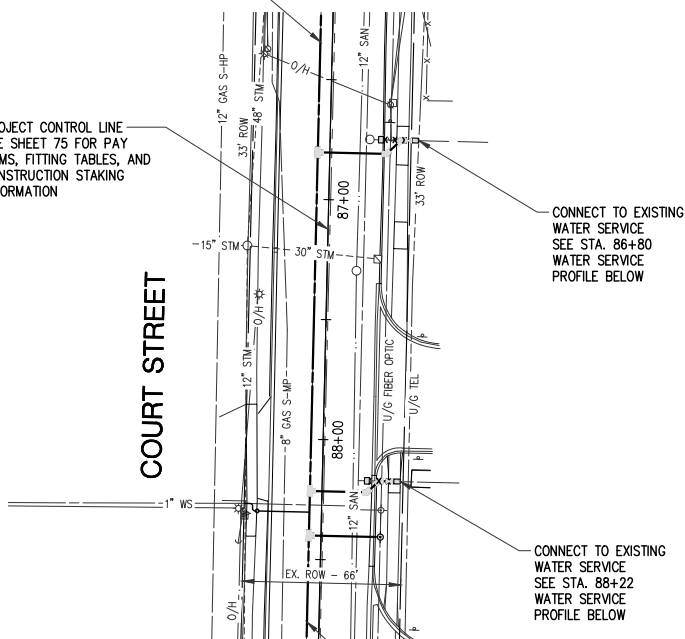
REV:

SHT# 88 OF 100  
JOB No: 18C0137

SHEET 75 FOR WATER MAIN PLAN AND PROFILE SHEET STA. 82+00 TO STA. 90+00

PROJECT CONTROL LINE SEE SHEET 75 FOR PAY ITEMS, FITTING TABLES, AND CONSTRUCTION STAKING INFORMATION

COURT STREET



SHEET 75 FOR WATER MAIN PLAN AND PROFILE SHEET STA. 82+00 TO STA. 90+00

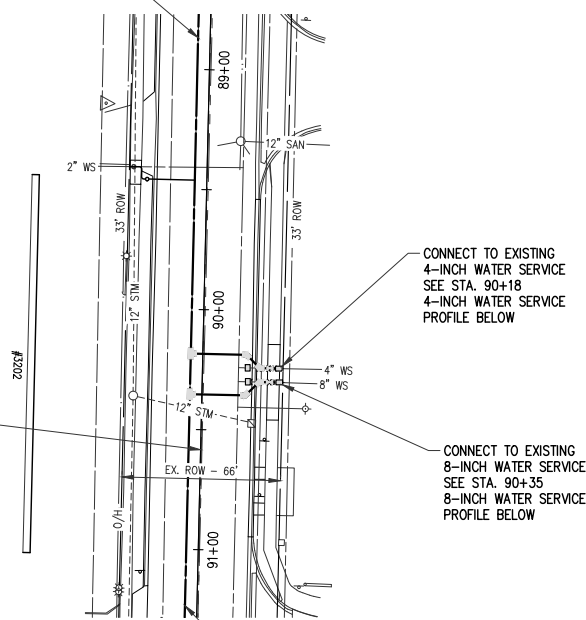
CONNECT TO EXISTING WATER SERVICE SEE STA. 88+22 WATER SERVICE PROFILE BELOW

CONNECT TO EXISTING WATER SERVICE SEE STA. 86+80 WATER SERVICE PROFILE BELOW

SHEET 75 FOR WATER MAIN PLAN AND PROFILE SHEET STA. 82+00 TO STA. 90+00

PROJECT CONTROL LINE SEE SHEET 76 FOR PAY ITEMS, FITTING TABLES, AND CONSTRUCTION STAKING INFORMATION

COURT STREET



SHEET 76 FOR WATER MAIN PLAN AND PROFILE SHEET STA. 90+00 TO STA. 98+00

CONNECT TO EXISTING 8-INCH WATER SERVICE SEE STA. 90+35 8-INCH WATER SERVICE PROFILE BELOW

CONNECT TO EXISTING 4-INCH WATER SERVICE SEE STA. 90+18 4-INCH WATER SERVICE PROFILE BELOW

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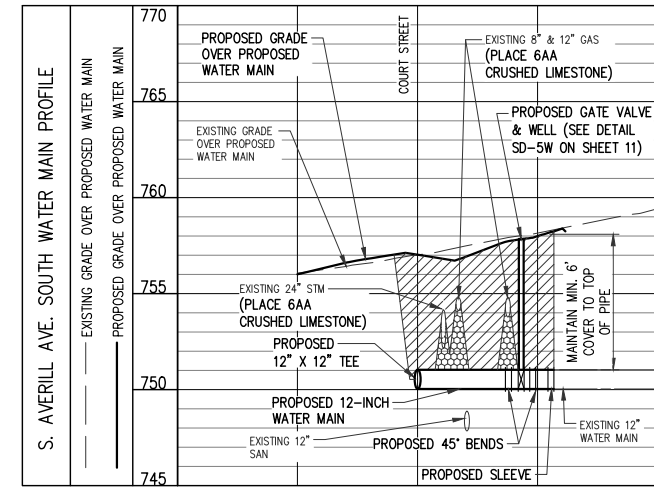
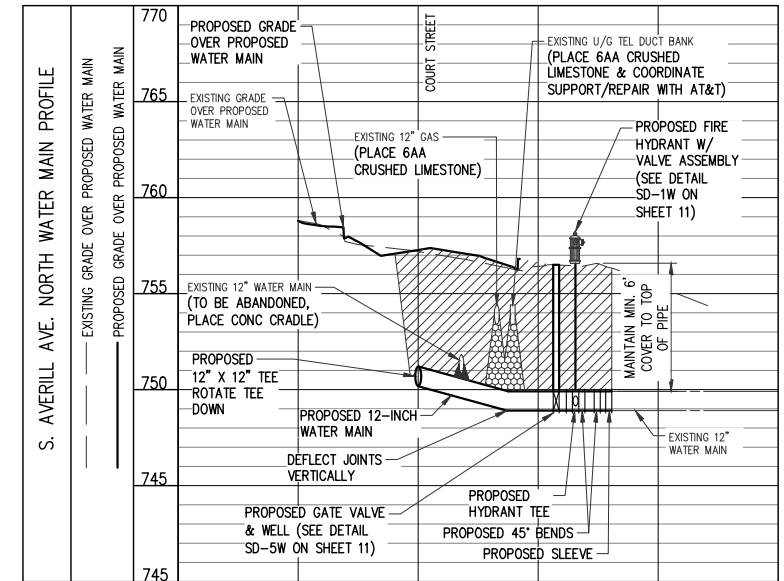
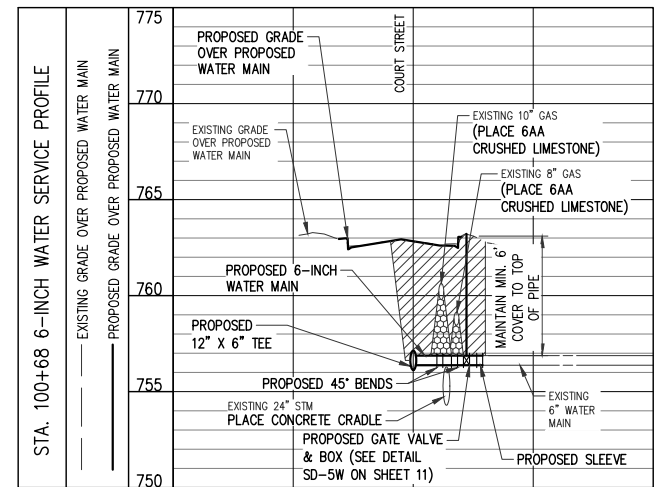
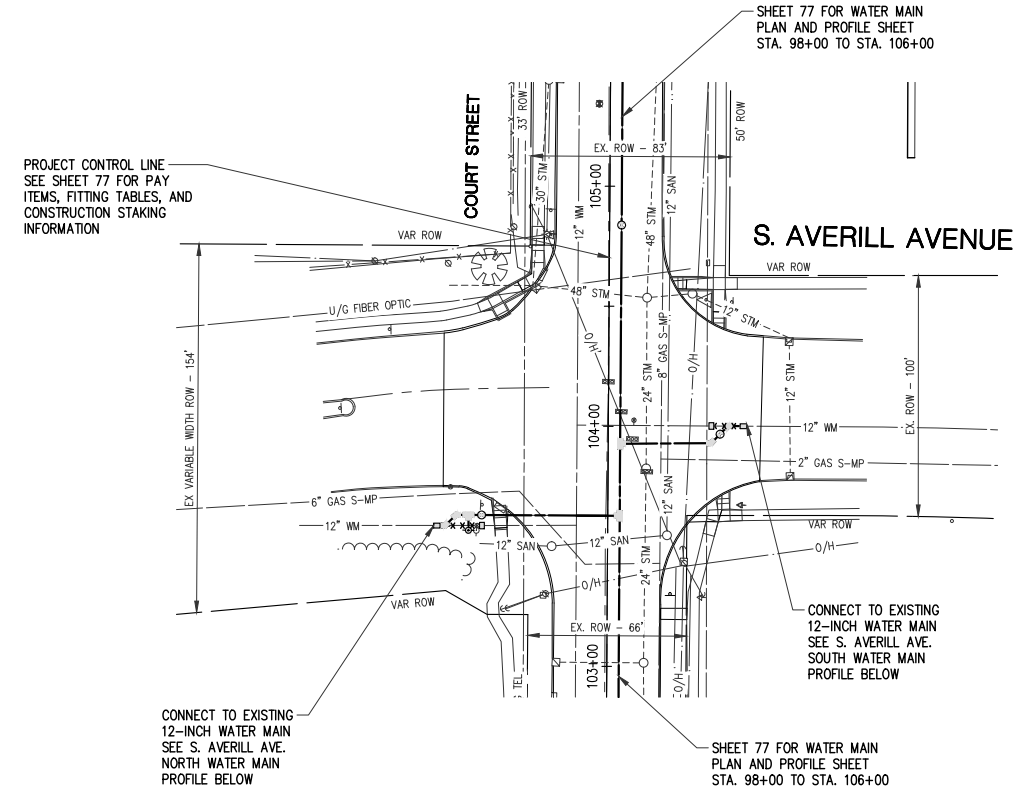
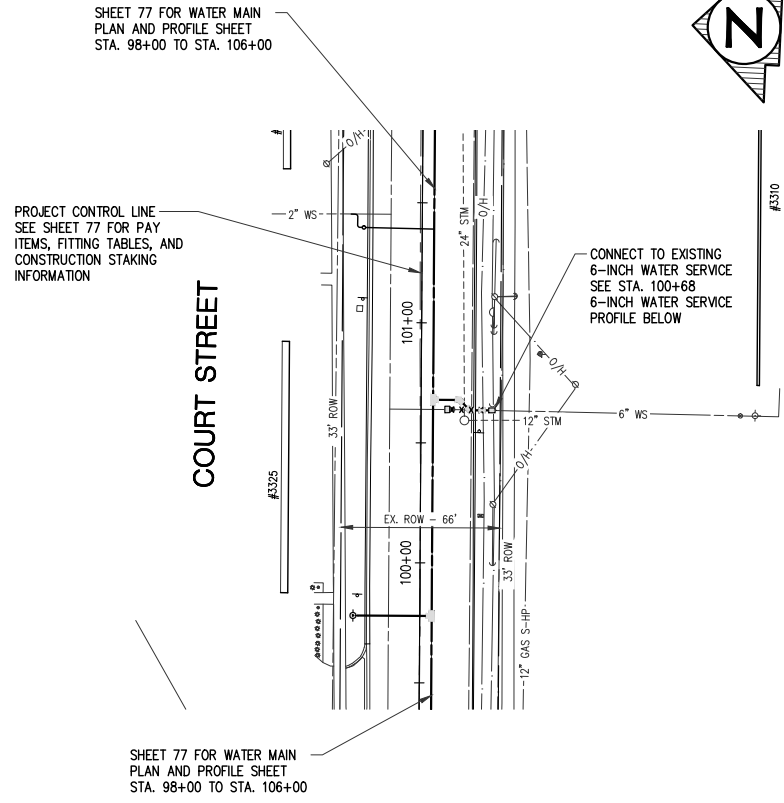
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Flint, MI 48502

PLAN DATE: JUNE 2019  
PROJECT MGR: JMB  
REVIEWER: TCL  
SCALE: 1" = 40' HZ; 1" = 5' VT  
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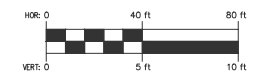
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**COURT STREET REHABILITATION**  
STA. 86+80, STA. 88+22, STA. 90+18 AND STA. 90+35 SERVICES  
WATER MAIN CONNECTION PLAN AND PROFILES

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PLAN SUBMITTALS AND CHANGES	
BIDDING DOCUMENTS	
DATE	DESCRIPTION
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REV: \_\_\_\_\_  
 SHT# 89 of 100  
 JOB No: 18C0137

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PLAN DATE: JUNE 2019  
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 REVIEWER: TCL  
 SCALE: 1" = 40' HZ; 1" = 5' VT

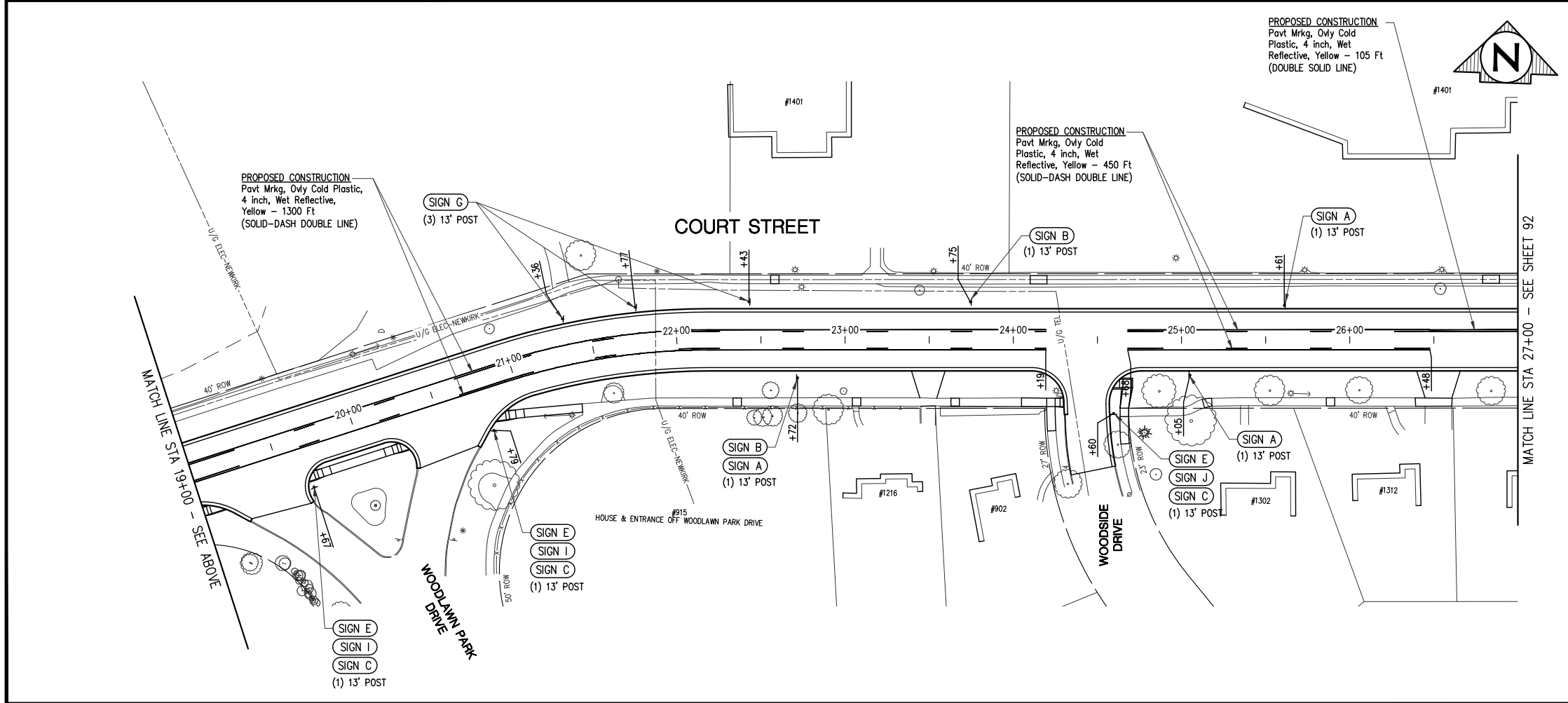
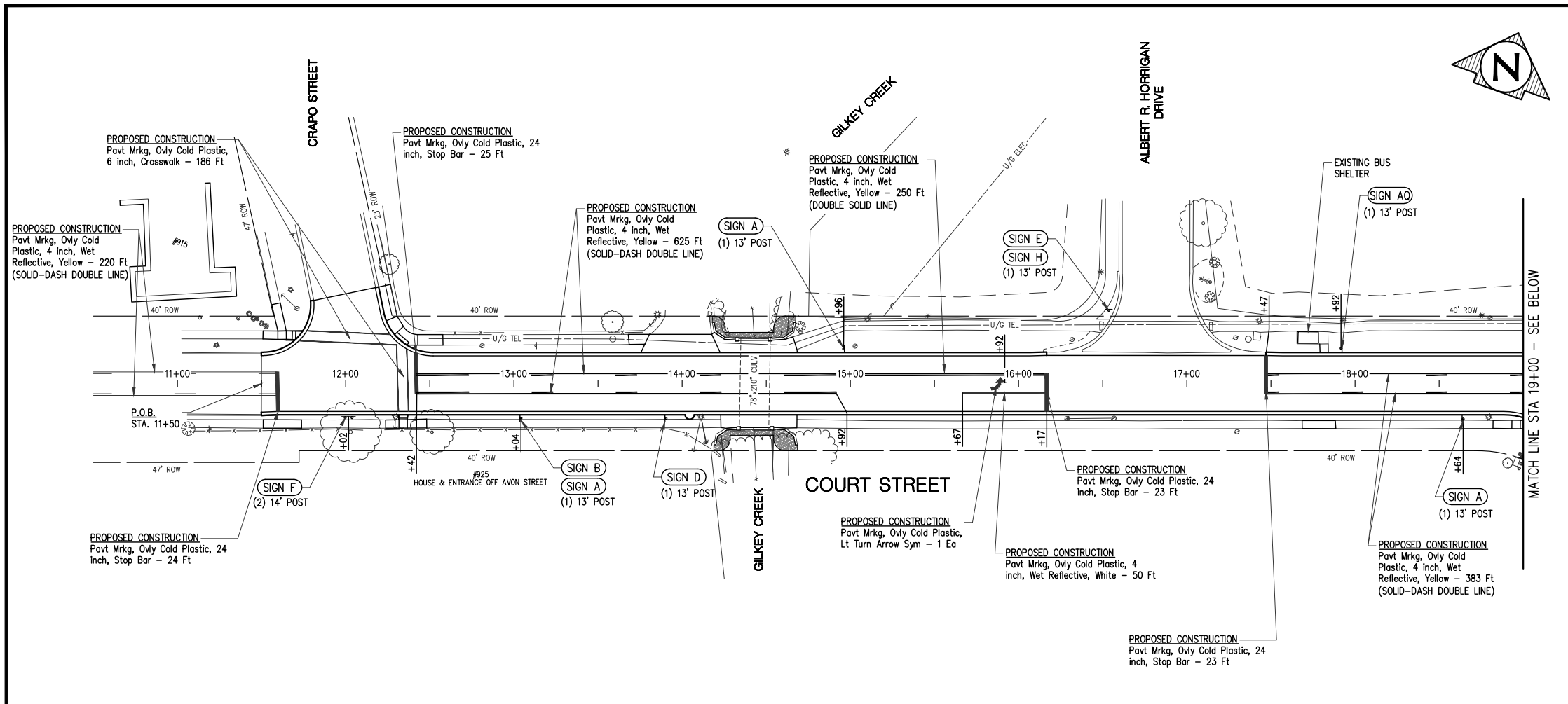
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 AVERILL AVE AND STA 100+68 SERVICE  
 WATER MAIN CONNECTION PLAN AND PROFILES









### SHEET QUANTITIES CATEGORY 1 - PARTICIPATING

DESCRIPTION	QUANTITY	UNITS
Post, Steel, 3 lb	236	Ft
Sign, Type IIIA	36	Sft
Sign, Type IIIB	40	Sft
Sign, Type VB	8	Sft
Pavt Mrkg, Ovy Cold Plastic, 6 inch, Crosswalk	186	Ft
Pavt Mrkg, Ovy Cold Plastic, 24 inch, Stop Bar	95	Ft
Pavt Mrkg, Ovy Cold Plastic, Lt Turn Arrow Sym	1	Eo
Pavt Mrkg, Ovy Cold Plastic, 4 inch, Wet Reflective, White	50	Ft
Pavt Mrkg, Ovy Cold Plastic, 4 inch, Wet Reflective, Yellow	3333	Ft

### SIGN LEGEND

R8-3 TYPE IIIB 12"x12" (1 SFT) 3 LBS STEEL POST	R2-1 TYPE IIIB 24"x30" (5 SFT) 3 LBS STEEL POST	R1-1 TYPE IIIA 30"x30" (6.25 SFT) 3 LBS STEEL POST	R3-9b TYPE IIIB 24"x42" (7 SFT) 3 LBS STEEL POST
SIGN "A" 6 REQUIRED	SIGN "B" 3 REQUIRED	SIGN "C" 3 REQUIRED	SIGN "D" 1 REQUIRED
SPECIAL D3-1 TYPE IIIA 6"x18" (0.75 SFT PER SIDE) 3 LBS STEEL POST	W1-7 TYPE VB 48"x24" (8 SFT) 3 LBS STEEL POST	W1-8L TYPE IIIB 18"x24" (3 SFT) 3 LBS STEEL POST	SPECIAL D3-1 TYPE IIIA 6"x32" (1.4 SFT PER SIDE) 3 LBS STEEL POST
SIGN "E" 4 REQUIRED	SIGN "F" 1 REQUIRED	SIGN "G" 3 REQUIRED	SIGN "H" 1 REQUIRED
SPECIAL D3-1 TYPE IIIA 6"x36" (1.5 SFT PER SIDE) 3 LBS STEEL POST	SPECIAL D3-1 TYPE IIIA 6"x26" (1.1 SFT PER SIDE) 3 LBS STEEL POST	R7-107a TYPE IIIB 30"x12" (2.5 SFT) 3 LBS STEEL POST	SIGN "AO" 1 REQUIRED
SIGN "I" 2 REQUIRED	SIGN "J" 1 REQUIRED	SIGN "AO" 1 REQUIRED	

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**PLAN SUBMITTALS AND CHANGES**

DATE	DESCRIPTION
6/5/2019	ISSUED FOR BIDS

REV: \_\_\_\_\_

SHT# 91 of 100

JOB No: 18C0137

PLAN DATE: JUNE 2019

PROJECT MGR: JMB

REVIEWER: TCL

SCALE: 1" = 40'

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**COURT STREET REHABILITATION**

P.O.B. STA. 11+50 TO STA. 27+00

PAVEMENT MARKING AND SIGNING SHEET

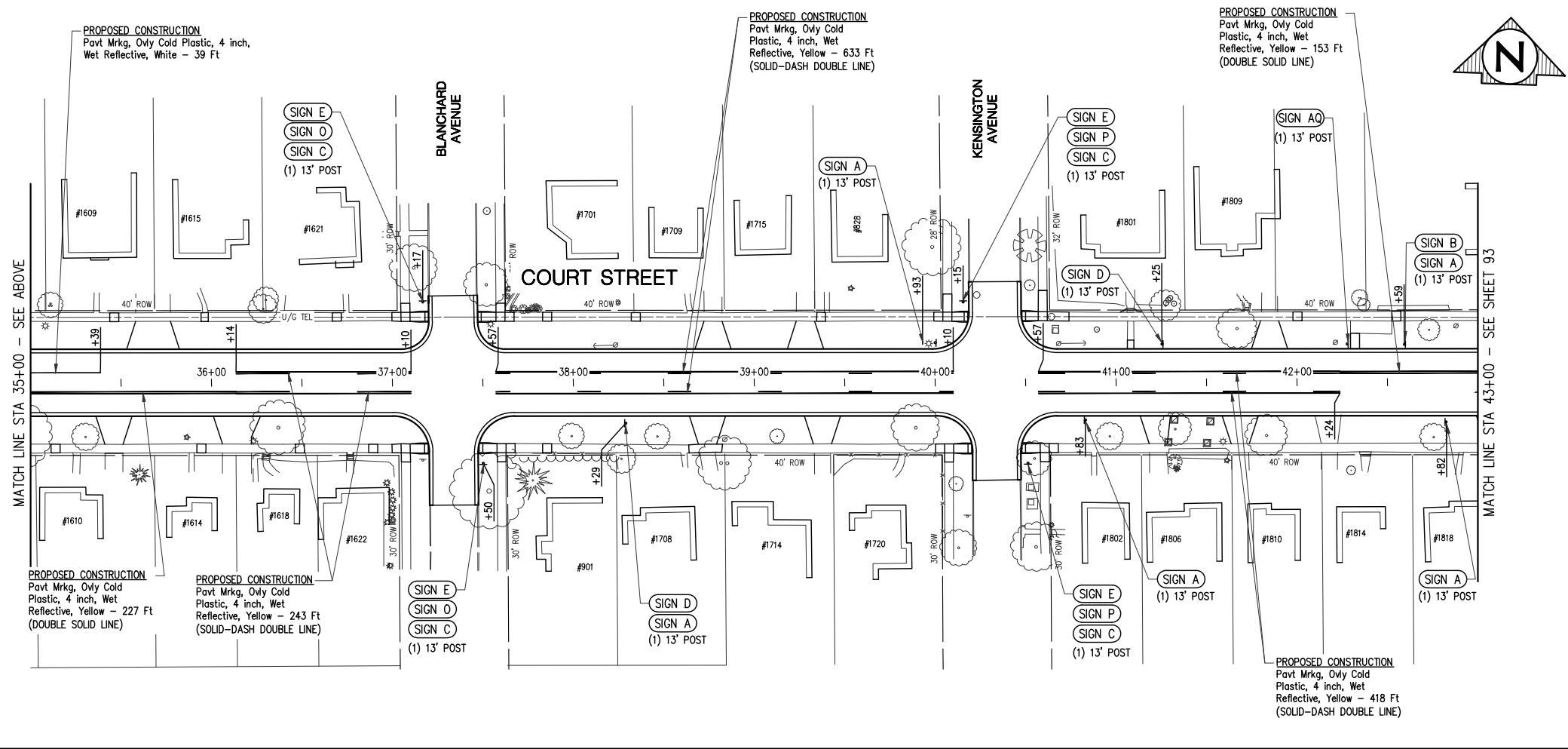
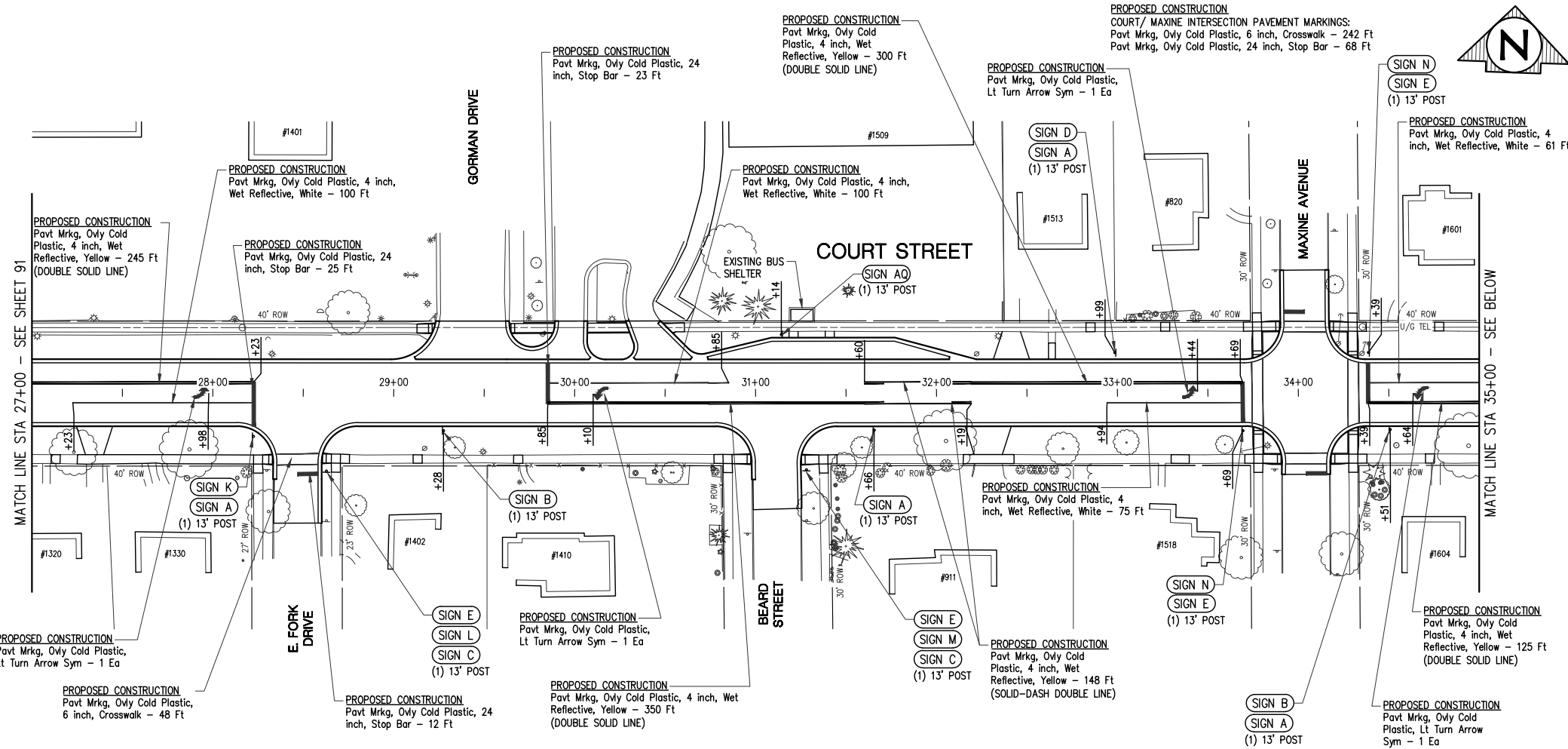
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REV: \_\_\_\_\_

SHT# 91 of 100

JOB No: 18C0137

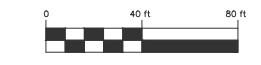


### SHEET QUANTITIES CATEGORY 1 - PARTICIPATING

DESCRIPTION	QUANTITY	UNITS
Post, Steel, 3 lb	273	Ft
Sign, Type IIIA	68	Sft
Sign, Type IIIB	56	Sft
Pavt Mrkg, Ovy Cold Plastic, 6 inch, Crosswalk	290	Ft
Pavt Mrkg, Ovy Cold Plastic, 24 inch, Stop Bar	128	Ft
Pavt Mrkg, Ovy Cold Plastic, Lt Turn Arrow Sym	4	Ea
Pavt Mrkg, Ovy Cold Plastic, 4 inch, Wet Reflective, White	375	Ft
Pavt Mrkg, Ovy Cold Plastic, 4 inch, Wet Reflective, Yellow	2842	Ft

### SIGN LEGEND

R8-3 TYPE IIIB 12"x12" (1 SFT) 3 LBS STEEL POST	R2-1 TYPE IIIB 24"x30" (5 SFT) 3 LBS STEEL POST	R1-1 TYPE IIIA 30"x30" (6.25 SFT) 3 LBS STEEL POST	R3-9b TYPE IIIB 24"x42" (7 SFT) 3 LBS STEEL POST
SIGN "A" 9 REQUIRED	SIGN "B" 3 REQUIRED	SIGN "C" 6 REQUIRED	SIGN "D" 3 REQUIRED
SPECIAL D3-1 TYPE IIIA 6"x18" (0.75 SFT PER SIDE) 3 LBS STEEL POST	R10-6 TYPE IIIB 36"x24" (6 SFT) 3 LBS STEEL POST	SPECIAL D3-1 TYPE IIIA 6"x26" (1.1 SFT PER SIDE) 3 LBS STEEL POST	SPECIAL D3-1 TYPE IIIA 6"x20" (0.9 SFT PER SIDE) LBS STEEL POST
SIGN "E" 8 REQUIRED	SIGN "K" 1 REQUIRED	SIGN "L" 1 REQUIRED	SIGN "M" 1 REQUIRED
SPECIAL D3-1 TYPE IIIA 6"x22" (1.0 SFT PER SIDE) 3 LBS STEEL POST	SPECIAL D3-1 TYPE IIIA 6"x28" (1.2 SFT PER SIDE) 3 LBS STEEL POST	SPECIAL D3-1 TYPE IIIA 6"x30" (1.25 SFT PER SIDE) 3 LBS STEEL POST	R7-107a TYPE IIIB 30"x12" (2.5 SFT) 3 LBS STEEL POST
SIGN "N" 2 REQUIRED	SIGN "O" 2 REQUIRED	SIGN "P" 2 REQUIRED	SIGN "AQ" 2 REQUIRED



### PLAN SUBMITTALS AND CHANGES

BIDDING DOCUMENTS	
DATE	DESCRIPTION
6/5/2019	ISSUED FOR BIDS

PLAN DATE: JUNE 2019  
 PROJECT MGR: JMB  
 REVIEWER: TCL  
 SCALE: 1" = 40'

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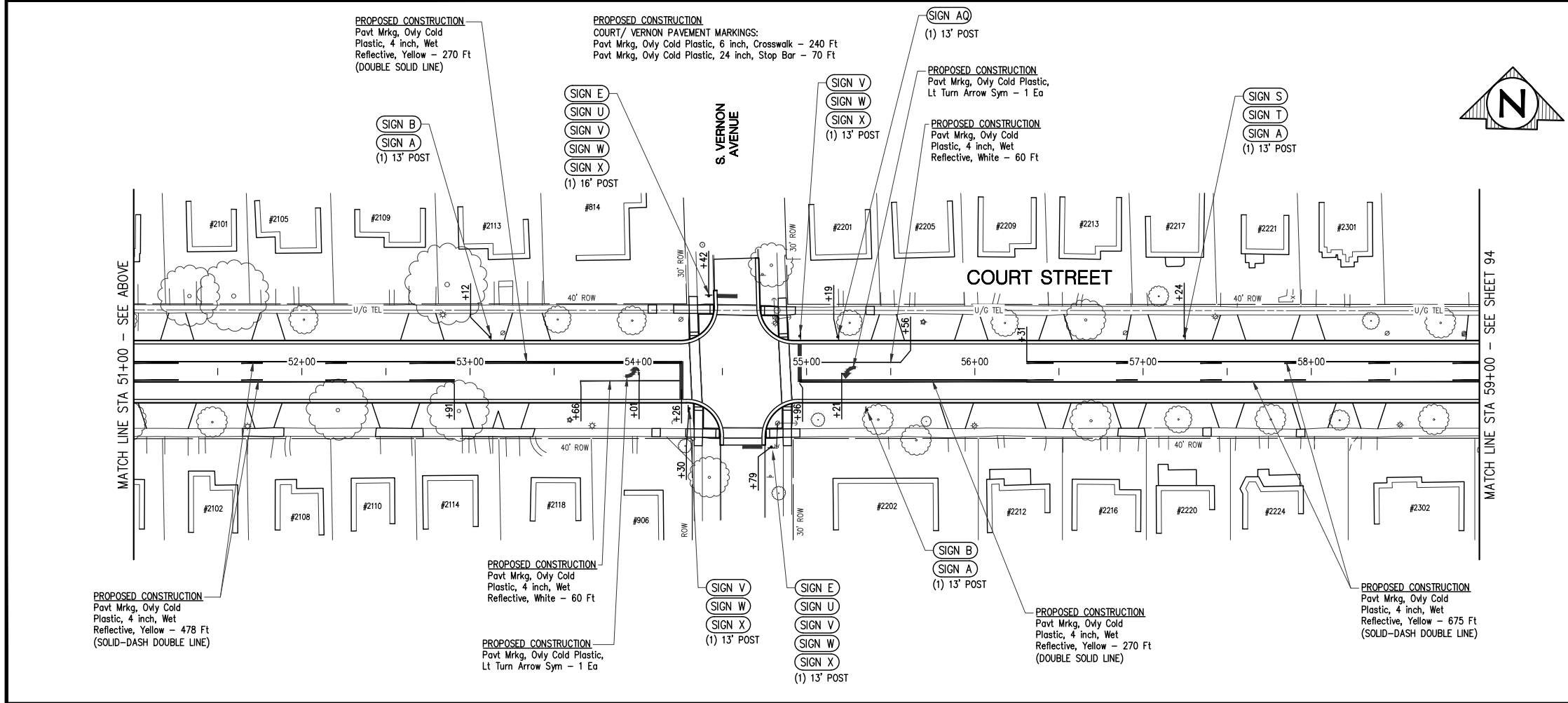
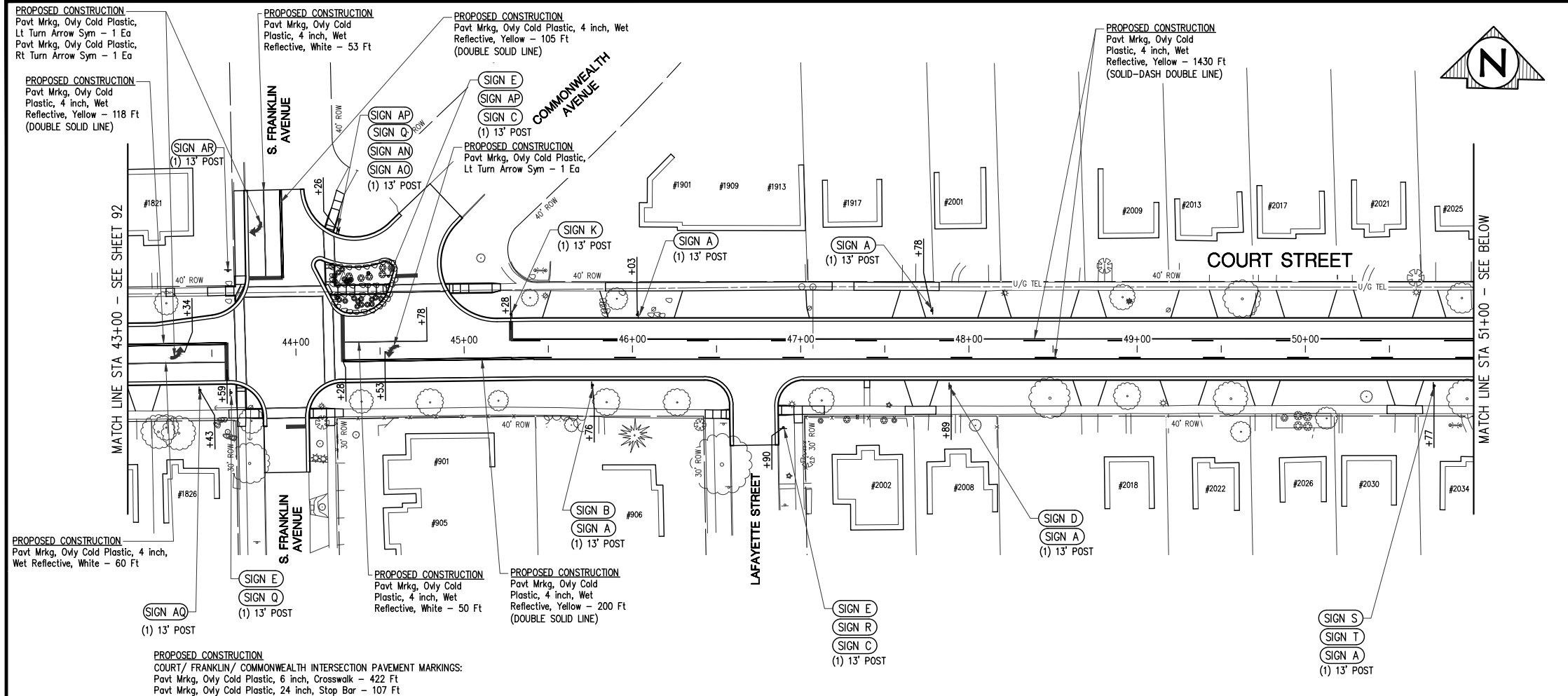
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PREPARED FOR  
**CITY OF FLINT**  
**COURT STREET REHABILITATION**  
 STA. 27+00 TO STA. 43+00  
 PAVEMENT MARKING AND SIGNING SHEET

REV: \_\_\_\_\_  
 SHT# 92 of 100  
 JOB No: 18C0137

Flint, MI 48502  
 811  
 Know what's below. Call before you dig.  
 PROJECT: 18C0137 (City of Flint Court Street Rehabilitation) DRAWING: 18C0137-PAV.DWG  
 DATE: 6/5/2019 9:10 AM





















### SHEET QUANTITIES CATEGORY 1 - PARTICIPATING

DESCRIPTION	QUANTITY	UNITS
Post, Steel, 3 lb	263	Ft
Sign, Type IIIA	49	Sft
Sign, Type IIIB	107	Sft
Pavt Mrkg, Ovy Cold Plastic, 6 inch, Crosswalk	662	Ft
Pavt Mrkg, Ovy Cold Plastic, 24 inch, Stop Bar	177	Ft
Pavt Mrkg, Ovy Cold Plastic, Lt Turn Arrow Sym	4	Ea
Pavt Mrkg, Ovy Cold Plastic, Rt Turn Arrow Sym	1	Ea
Pavt Mrkg, Ovy Cold Plastic, 4 inch, Wet Reflective, White	283	Ft
Pavt Mrkg, Ovy Cold Plastic, 4 inch, Wet Reflective, Yellow	3546	Ft

### SIGN LEGEND

 R8-3 TYPE IIIB 12"x12" (1 SFT) 3 LBS STEEL POST SIGN "A" 8 REQUIRED	 R2-1 TYPE IIIB 24"x30" (5 SFT) 3 LBS STEEL POST SIGN "B" 3 REQUIRED	 R1-1 TYPE IIIA 30"x30" (6.25 SFT) 3 LBS STEEL POST SIGN "C" 2 REQUIRED	 R3-9b TYPE IIIB 24"x42" (7 SFT) 3 LBS STEEL POST SIGN "D" 1 REQUIRED
 SIGN "E" 5 REQUIRED	 SIGN "K" 1 REQUIRED	 SIGN "Q" 2 REQUIRED	 SIGN "R" 1 REQUIRED
 S4-1P TYPE IIIB 24"x10" (1.7 SFT) 3 LBS STEEL POST SIGN "W" 4 REQUIRED	 S4-1aP TYPE IIIB 24"x10" (1.7 SFT) 3 LBS STEEL POST SIGN "X" 4 REQUIRED	 R1-1 TYPE IIIA 36"x36"x36" (4 SFT) 3 LBS STEEL POST SIGN "AN" 1 REQUIRED	 R5-1 TYPE IIIA 30"x30" (6.25 SFT) 3 LBS STEEL POST SIGN "AO" 1 REQUIRED
 SIGN "AP" 2 REQUIRED	 SIGN "AQ" 2 REQUIRED	 R3-7R TYPE IIIB 30"x30" (6.25 SFT) 3 LBS STEEL POST SIGN "AR" 1 REQUIRED	 Know what's below. Call before you dig.

PLAN SUBMITTALS AND CHANGES	
BIDDING DOCUMENTS	
DATE	DESCRIPTION
6/5/2019	ISSUED FOR BIDS

PLAN DATE: JUNE 2019

PROJECT MGR: JMB

REVIEWER: TCL

SCALE: 1" = 40'

O: (810) 341-7500

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## ROWE PROFESSIONAL SERVICES COMPANY



The Rowe Building  
540 S. Saginaw St., Suite 200  
Flint, MI 48502

PREPARED FOR

### CITY OF FLINT

## COURT STREET REHABILITATION

STA. 43+00 TO STA. 59+00

PAVEMENT MARKING AND SIGNING SHEET

REV: \_\_\_\_\_

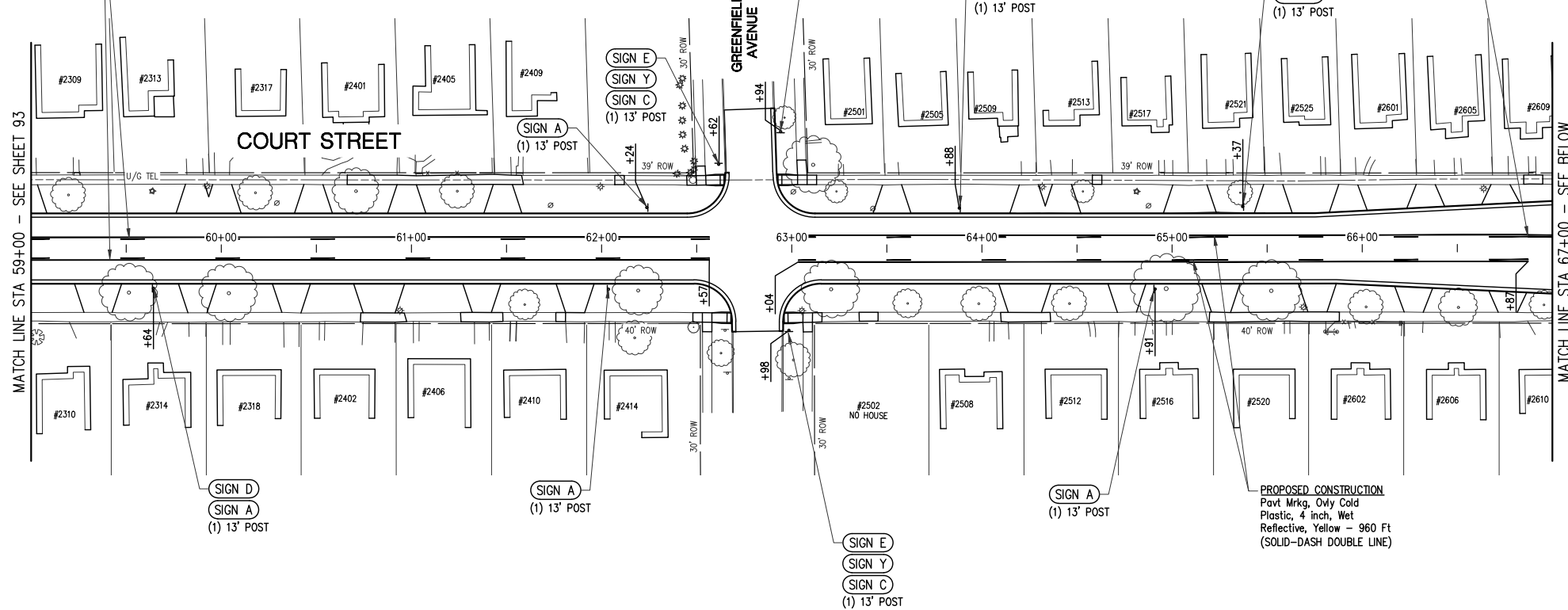
SHT# 93 OF 100

JOB No: 18C0137



PROPOSED CONSTRUCTION  
Pavt Mrkg, Ovy Cold  
Plastic, 4 inch, Wet  
Reflective, Yellow - 894 Ft  
(SOLID-DASH DOUBLE LINE)

PROPOSED CONSTRUCTION  
Pavt Mrkg, Ovy Cold  
Plastic, 4 inch, Wet  
Reflective, Yellow - 30 Ft  
(DOUBLE SOLID LINE)

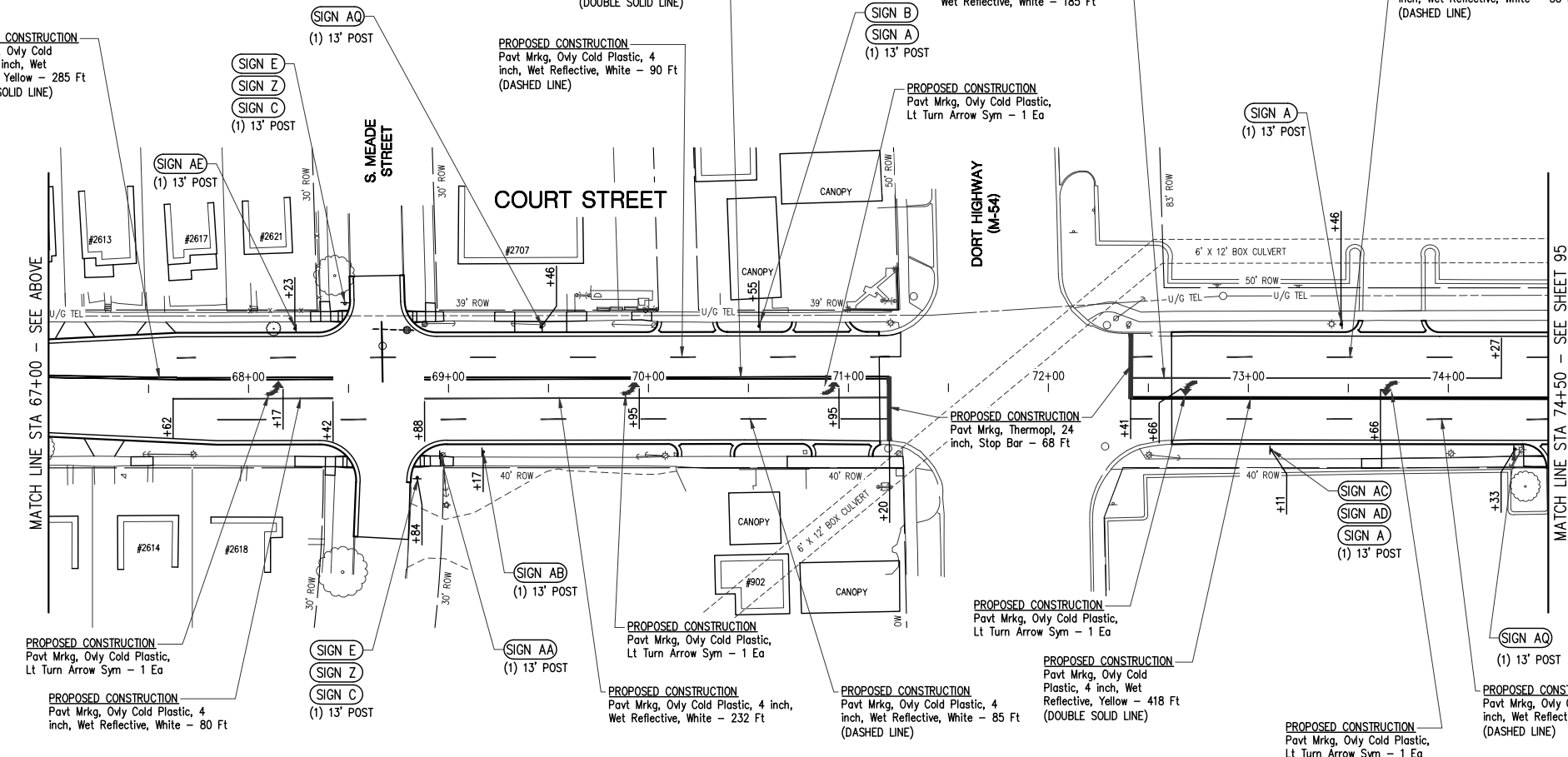


PROPOSED CONSTRUCTION  
Pavt Mrkg, Ovy Cold  
Plastic, 4 inch, Wet  
Reflective, Yellow - 285 Ft  
(DOUBLE SOLID LINE)

PROPOSED CONSTRUCTION  
Pavt Mrkg, Ovy Cold  
Plastic, 4 inch, Wet  
Reflective, White - 90 Ft  
(DASHED LINE)

PROPOSED CONSTRUCTION  
Pavt Mrkg, Ovy Cold  
Plastic, 4 inch,  
Wet Reflective, White - 185 Ft

PROPOSED CONSTRUCTION  
Pavt Mrkg, Ovy Cold  
Plastic, 4 inch, Wet  
Reflective, White - 53 Ft  
(DASHED LINE)



### SHEET QUANTITIES CATEGORY 1 - PARTICIPATING

DESCRIPTION	QUANTITY	UNITS
Post, Steel, 3 lb	208	Ft
Sign, Type IIIA	44	Sft
Sign, Type IIIB	40	Sft
Pavt Mrkg, Ovy Cold Plastic, Lt Turn Arrow Sym	3	Ea
Pavt Mrkg, Thermopl, 24 inch, Stop Bar	34	Ft
Pavt Mrkg, Ovy Cold Plastic, 4 inch, Wet Reflective, White	487	Ft
Pavt Mrkg, Ovy Cold Plastic, 4 inch, Wet Reflective, Yellow	2634	Ft

### SHEET QUANTITIES CATEGORY 5 - PARTICIPATING

DESCRIPTION	QUANTITY	UNITS
Post, Steel, 3 lb	39	Ft
Sign, Type IIIB	13	Sft
Pavt Mrkg, Ovy Cold Plastic, Lt Turn Arrow Sym	2	Ea
Pavt Mrkg, Thermopl, 24 inch, Stop Bar	34	Ft
Pavt Mrkg, Ovy Cold Plastic, 4 inch, Wet Reflective, White	291	Ft
Pavt Mrkg, Ovy Cold Plastic, 4 inch, Wet Reflective, Yellow	418	Ft

#### SIGN LEGEND

R8-3 TYPE III B 12"x12" (1 SFT) 3 LBS STEEL POST	R2-1 TYPE III B 24"x30" (5 SFT) 3 LBS STEEL POST	R1-1 TYPE III A 30"x30" (6.25 SFT) 3 LBS STEEL POST	R3-9b TYPE III B 24"x42" (7 SFT) 3 LBS STEEL POST
SIGN "A" 8 REQUIRED	SIGN "B" 1 REQUIRED	SIGN "C" 4 REQUIRED	SIGN "D" 2 REQUIRED

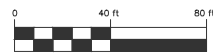
SPECIAL D3-1 TYPE III A 6"x18" (0.75 SFT PER SIDE) 3 LBS STEEL POST	SPECIAL D3-1 TYPE III A 6"x28" (1.2 SFT PER SIDE) 3 LBS STEEL POST	SPECIAL D3-1 TYPE III A 6"x20" (0.9 SFT PER SIDE) 3 LBS STEEL POST	R10-7 TYPE III B 24"x30" (5 SFT) 3 LBS STEEL POST
SIGN "E" 4 REQUIRED	SIGN "Y" 2 REQUIRED	SIGN "Z" 2 REQUIRED	SIGN "AA" 1 REQUIRED

R7-14 TYPE III A 12"x18" (1.5 SFT) 3 LBS STEEL POST	R2-1 TYPE III B 24"x30" (5 SFT) 3 LBS STEEL POST	R14-1 TYPE III B 24"x18" (3 SFT) 3 LBS STEEL POST	W4-2R TYPE III B 30"x30" (6.25 SFT) 3 LBS STEEL POST
SIGN "AB" 2 REQUIRED	SIGN "AC" 1 REQUIRED	SIGN "AD" 1 REQUIRED	SIGN "AE" 1 REQUIRED

R7-107a TYPE III B 30"x12" (2.5 SFT) 3 LBS STEEL POST	SIGN "AQ" 2 REQUIRED



PLAN SUBMITTALS AND CHANGES	
BIDDING DOCUMENTS	
DATE	DESCRIPTION
6/5/2019	ISSUED FOR BIDS

PLAN DATE: JUNE 2019  
PROJECT MGR: JMB  
REVIEWER: TCL  
SCALE: 1" = 40'

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SERVICES COMPANY**

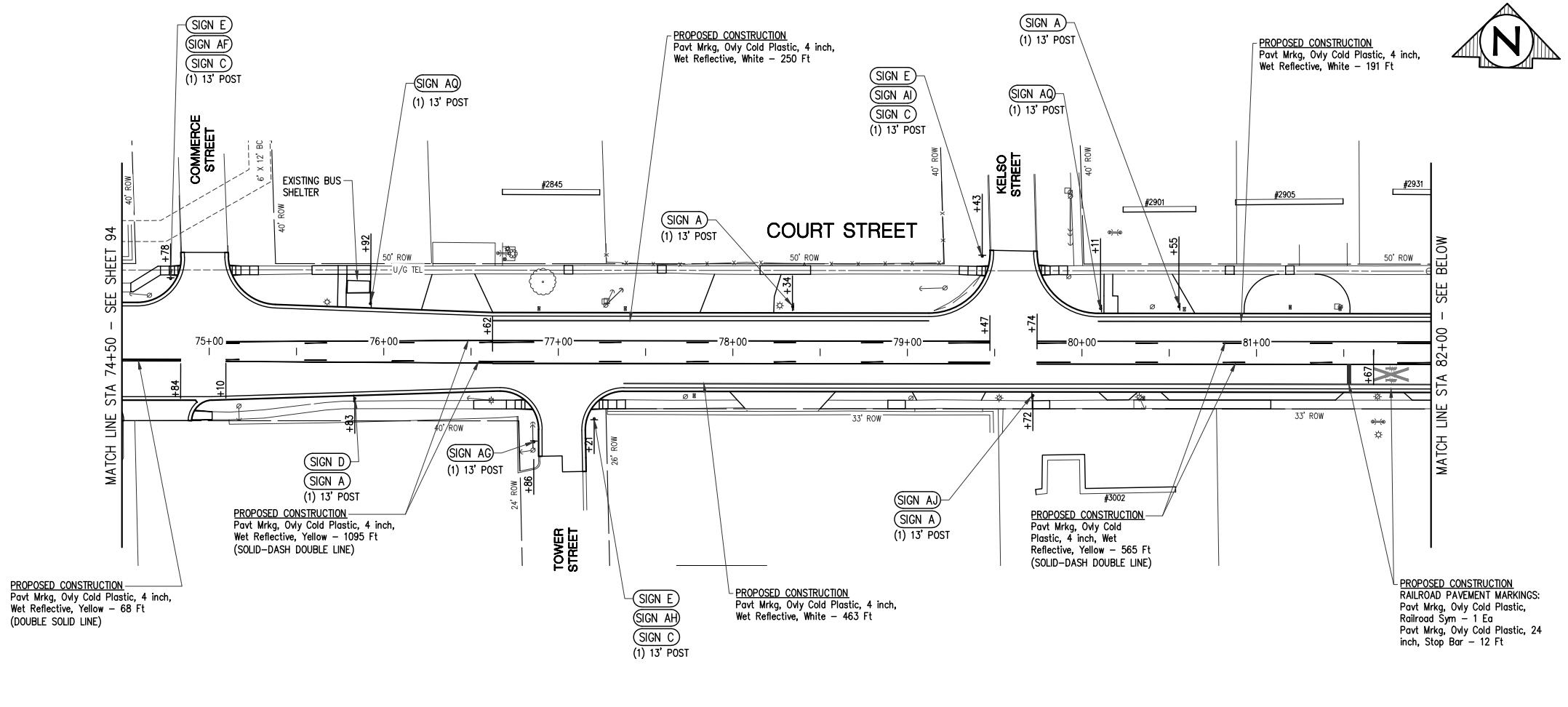
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F: (810) 341-7573  
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Flint, MI 48502

PREPARED FOR  
**CITY OF FLINT**  
**COURT STREET REHABILITATION**  
STA. 59+00 TO STA. 74+50  
PAVEMENT MARKING AND SIGNING SHEET

REV: \_\_\_\_\_  
SHT# 94 of 100  
JOB No: 18C0137

Flint: 6/6/2019 9:10 AM F:\Projects\180137\Drawings\Construction\Drawings\18C0137-PAU.dwg



### SHEET QUANTITIES CATEGORY 5 - PARTICIPATING

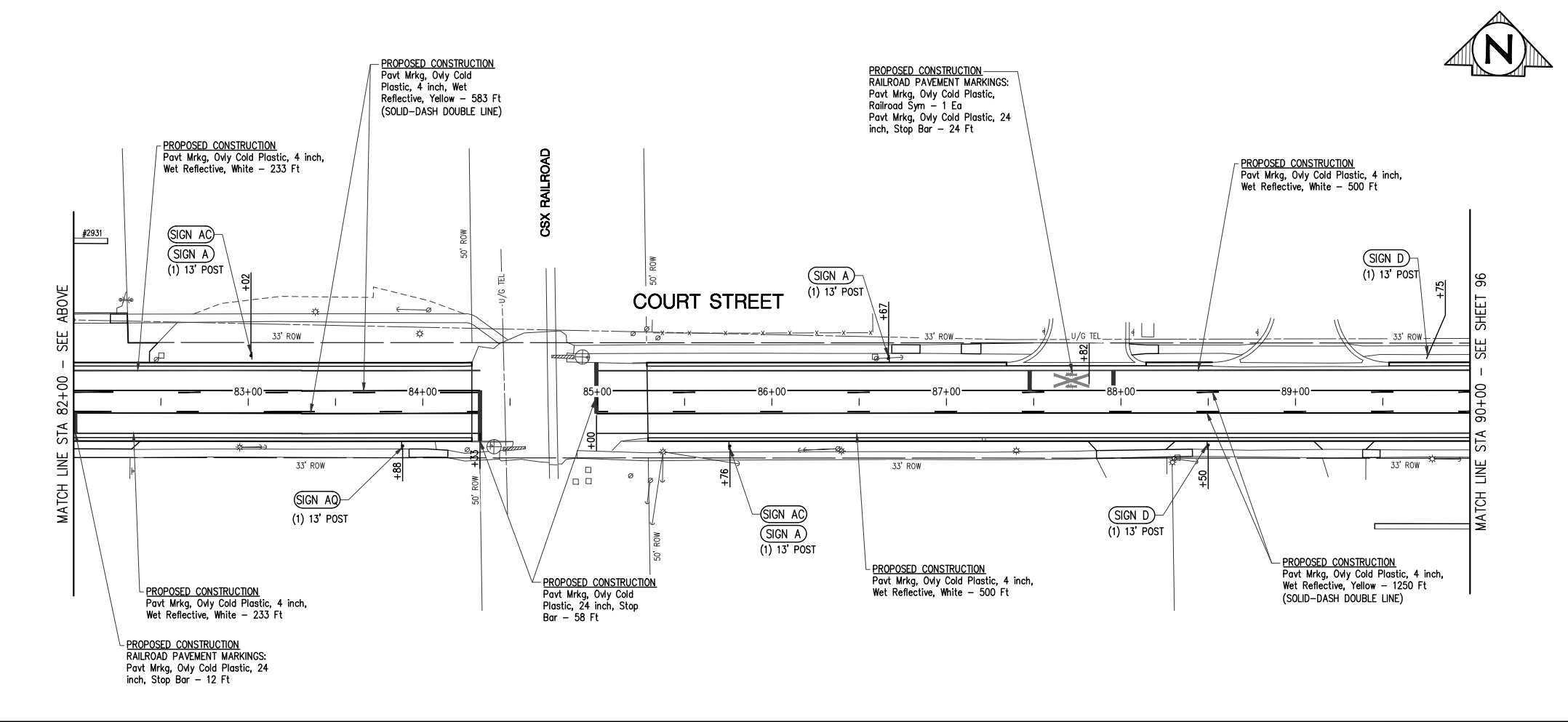
DESCRIPTION	QUANTITY	UNITS
Post, Steel, 3 lb	208	Ft
Sign, Type IIIA	40	Sft
Sign, Type IIIB	60	Sft
Pavt Mrkg, Ovy Cold Plastic, 24 inch, Stop Bar	106	Ft
Pavt Mrkg, Ovy Cold Plastic, Railroad Sym	2	Ea
Pavt Mrkg, Ovy Cold Plastic, 4 inch, Wet Reflective, White	2370	Ft
Pavt Mrkg, Ovy Cold Plastic, 4 inch, Wet Reflective, Yellow	3561	Ft

PLAN DATE: JUNE 2019  
 PROJECT MGR: JMB  
 REVIEWER: TCL  
 SCALE: 1" = 40'

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### SIGN LEGEND

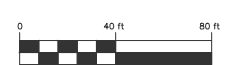
R8-3 TYPE III B 12"x12" (1 SFT) 3 LBS STEEL POST	R1-1 TYPE III A 30"x30" (6.25 SFT) 3 LBS STEEL POST	R3-9b TYPE III B 24"x42" (7 SFT) 3 LBS STEEL POST	SPECIAL D3-1 TYPE III A 9"x24" (1.5 SFT PER SIDE) 3 LBS STEEL POST
SIGN "A" 7 REQUIRED	SIGN "C" 3 REQUIRED	SIGN "D" 3 REQUIRED	SIGN "E" 3 REQUIRED
R10-6 TYPE III B 36"x24" (6 SFT) 3 LBS STEEL POST	SPECIAL D3-1 TYPE III A 9"x36" (2.25 SFT PER SIDE) 3 LBS STEEL POST	W14-1 TYPE III B 30"x30" (6.25 SFT) 3 LBS STEEL POST	SPECIAL D3-1 TYPE III A 9"x26" (1.7 SFT PER SIDE) 3 LBS STEEL POST
SIGN "AC" 2 REQUIRED	SIGN "AF" 1 REQUIRED	SIGN "AG" 1 REQUIRED	SIGN "AH" 1 REQUIRED
SPECIAL D3-1 TYPE III A 9"x24" (1.5 SFT PER SIDE) 3 LBS STEEL POST	W10-1 TYPE III B 30"x30" (6.25 SFT) 3 LBS STEEL POST	R7-107a TYPE III B 30"x12" (2.5 SFT) 3 LBS STEEL POST	
SIGN "AI" 1 REQUIRED	SIGN "AJ" 1 REQUIRED	SIGN "AQ" 3 REQUIRED	

**811**  
Know what's below.  
Call before you dig.

PLAN SUBMITTALS AND CHANGES	
BIDDING DOCUMENTS	
DATE	DESCRIPTION
6/5/2019	ISSUED FOR BIDS

PREPARED FOR  
**CITY OF FLINT**  
**COURT STREET REHABILITATION**  
STA. 74+50 TO STA. 90+00  
PAVEMENT MARKING AND SIGNING SHEET

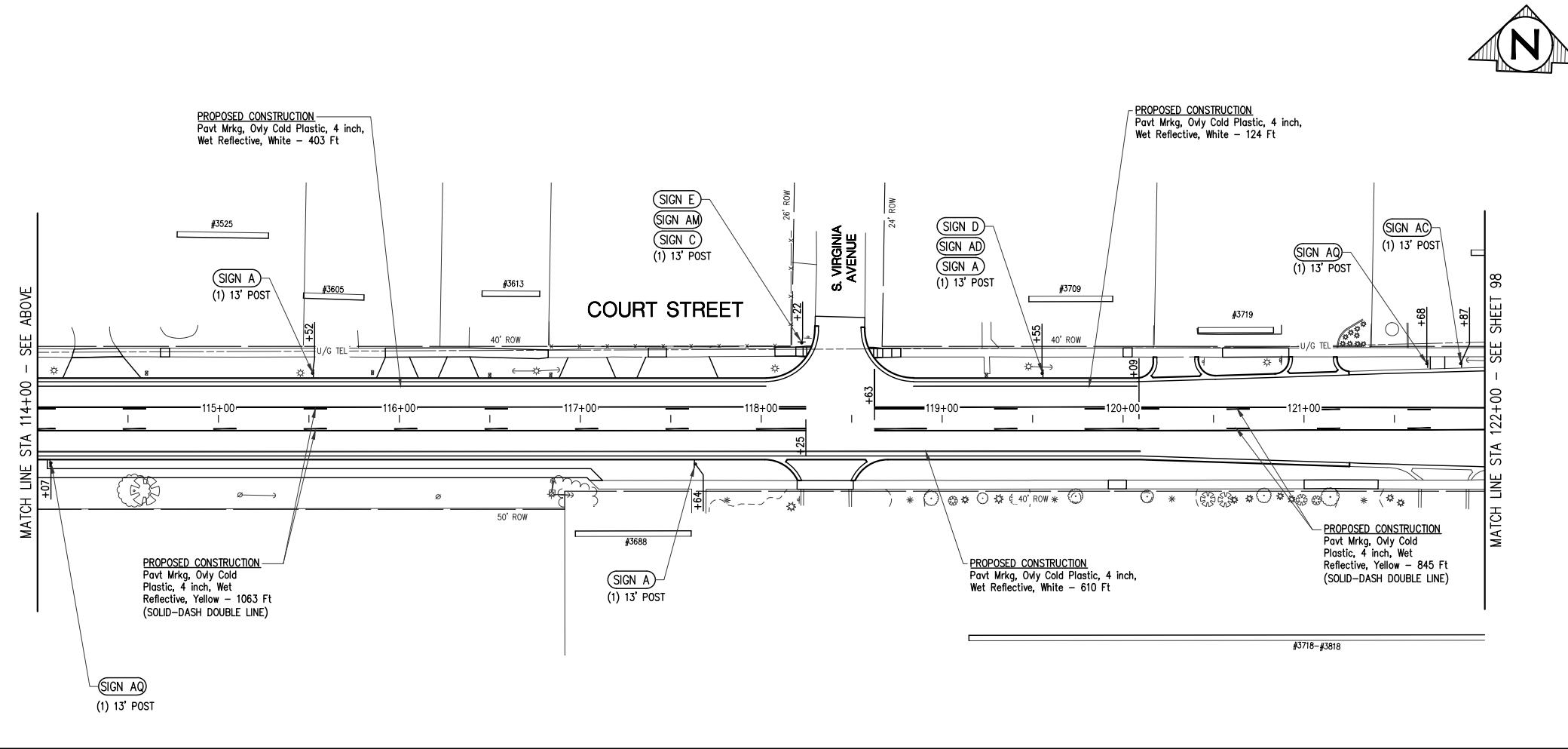
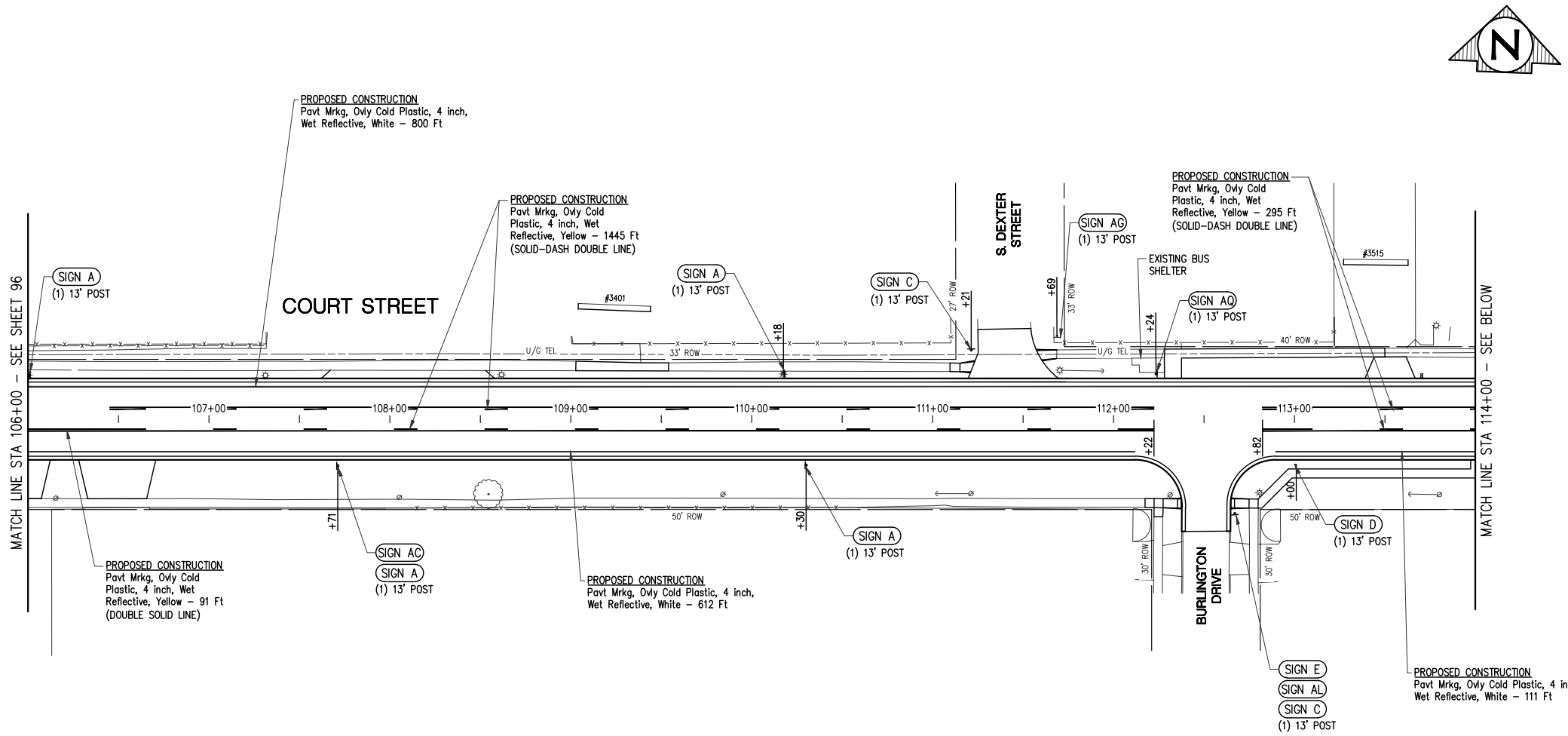
REV: \_\_\_\_\_  
 SHT# 95 of 100  
 JOB No: 18C0137



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**SHEET QUANTITIES**  
**CATEGORY 5 - PARTICIPATING**

DESCRIPTION	QUANTITY	UNITS
Post, Steel, 3 lb	208	Ft
Sign, Type IIIA	33	Sft
Sign, Type IIIB	50	Sft
Pavt Mrkg, Ovy Cold Plastic, 4 inch, Wet Reflective, White	2660	Ft
Pavt Mrkg, Ovy Cold Plastic, 4 inch, Wet Reflective, Yellow	3739	Ft

PLAN DATE: JUNE 2019  
 PROJECT MGR: JMB  
 REVIEWER: TCL  
 SCALE: 1" = 40'

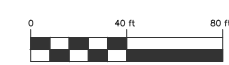
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 Flint, MI 48502

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**SIGN LEGEND**

R8-3 TYPE IIIB 12"x12" (1 SFT) 3 LBS STEEL POST	R1-1 TYPE IIIA 30"x30" (6.25 SFT) 3 LBS STEEL POST	R3-9b TYPE IIIB 24"x42" (7 SFT) 3 LBS STEEL POST	SPECIAL D3-1 TYPE IIIA 9"x24" (1.5 SFT PER SIDE) 3 LBS STEEL POST
SIGN "A" 7 REQUIRED	SIGN "C" 3 REQUIRED	SIGN "D" 2 REQUIRED	SIGN "E" 2 REQUIRED
R10-6 TYPE IIIB 36"x24" (6 SFT) 3 LBS STEEL POST	R14-1 TYPE IIIB 24"x18" (3 SFT) 3 LBS STEEL POST	W14-1 TYPE IIIB 30"x30" (6.25 SFT) 3 LBS STEEL POST	SPECIAL D3-1 TYPE IIIA 9"x34" (2.2 SFT PER SIDE) 3 LBS STEEL POST
SIGN "AC" 2 REQUIRED	SIGN "AD" 1 REQUIRED	SIGN "AG" 1 REQUIRED	SIGN "AL" 1 REQUIRED
SPECIAL D3-1 TYPE IIIA 9"x28" (1.75 SFT PER SIDE) 3 LBS STEEL POST	R7-107a TYPE IIIB 30"x12" (2.5 SFT) 3 LBS STEEL POST	Know what's below. Call before you dig.	
SIGN "AM" 1 REQUIRED	SIGN "AO" 3 REQUIRED		



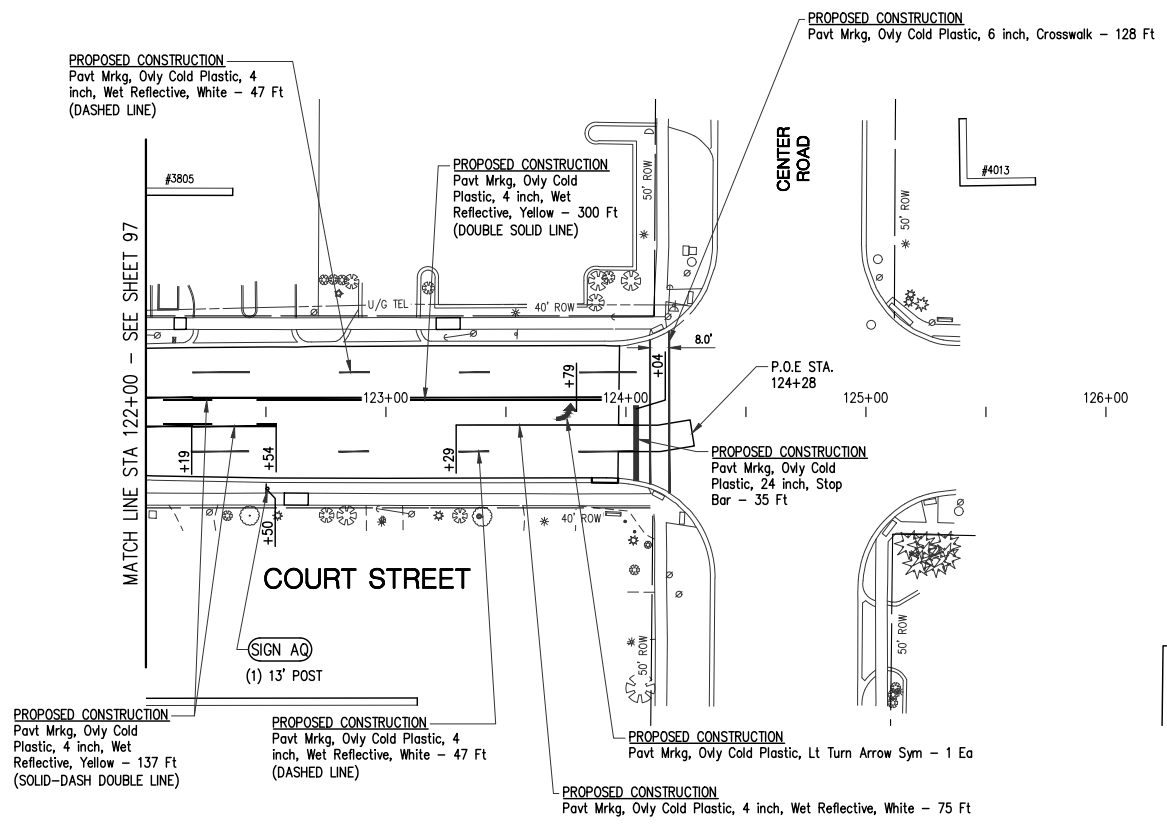
**PLAN SUBMITTALS AND CHANGES**

BIDDING DOCUMENTS	
DATE	DESCRIPTION
6/5/2019	ISSUED FOR BIDS


PREPARED FOR  
**CITY OF FLINT**  
**COURT STREET REHABILITATION**  
 STA. 106+00 TO STA. 122+00  
 PAVEMENT MARKING AND SIGNING SHEET

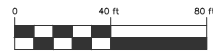
REV: \_\_\_\_\_  
 SHT# 97 of 100  
 JOB No: 18C0137

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 PLOTTED: 6/6/2019 9:11 AM



SHEET QUANTITIES CATEGORY 5 - PARTICIPATING		
DESCRIPTION	QUANTITY	UNITS
Post, Steel, 3 lb	13	Ft
Sign, Type III B	3	Sft
Pavt Mrkg, Ovy Cold Plastic, 6 inch, Crosswalk	128	Ft
Pavt Mrkg, Ovy Cold Plastic, 24 inch, Stop Bar	35	Ft
Pavt Mrkg, Ovy Cold Plastic, Lt Turn Arrow Sym	1	Ea
Pavt Mrkg, Ovy Cold Plastic, 4 inch, Wet Reflective, White	169	Ft
Pavt Mrkg, Ovy Cold Plastic, 4 inch, Wet Reflective, Yellow	437	Ft

  
 R7-107a TYPE III B  
 30"x12" (2.5 SFT)  
 3 LBS STEEL POST  
 SIGN "AQ"  
 1 REQUIRED



PLAN SUBMITTALS AND CHANGES	
BIDDING DOCUMENTS	
DATE	DESCRIPTION
6/5/2019	ISSUED FOR BIDS

PLAN DATE: JUNE 2019  
 PROJECT MGR: JMB  
 REVIEWER: TCL  
 SCALE: 1" = 40'

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PREPARED FOR  
**CITY OF FLINT**  
**COURT STREET REHABILITATION**  
 STA. 122+00 TO P.O.E. STA. 124+28  
 PAVEMENT MARKING AND SIGNING SHEET



REV: \_\_\_\_\_  
 SHT# 98 OF 100  
 JOB No: 18C0137

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 PLOTED: 6/6/2019 9:11 AM

**MAINTAINING TRAFFIC NOTES**

- ALL MEASURES REQUIRED FOR MAINTAINING TRAFFIC DURING CONSTRUCTION SHALL CONFORM WITH THE 2011 EDITION OF THE MICHIGAN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, AS AMENDED, AND THE 2012 MDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION (SECTION 812) UNLESS MODIFIED BY THIS PLAN OR DIRECTED OTHERWISE BY THE ENGINEER.
- SIGNS SHALL BE TYPE B, TEMP, WITH A 7' BOTTOM HEIGHT UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- TEMPORARY PAVEMENT MARKINGS SHALL BE USED TO CONTROL TRAFFIC AS REQUIRED. NO SECTION OF NEWLY PAVED ROADWAY SHALL BE USED BY TRAFFIC UNTIL TEMPORARY PAVEMENT MARKINGS HAVE BEEN PROPERLY PLACED.
- FLASHING WARNING LIGHTS AND/ OR FLAGS SHALL BE USED TO CALL ATTENTION TO ADVANCE WARNING SIGNS.
- TRAFFIC CONES SHALL BE USED AS CHANNELIZING DEVICES FOR ONLY DAY TIME OPERATIONS AND ONLY AS APPROVED BY THE ENGINEER.
- ALL PLASTIC DRUM BARRICADES SHALL BE PROPERLY WEIGHTED, AND LIGHTS SHALL BE KEPT IN WORKING ORDER AT ALL TIMES. ANY BARRICADES DAMAGED BY THE CONTRACTOR OR DUE TO IMPROPER USE SHALL BE REPLACED PROMPTLY AT CONTRACTOR'S EXPENSE.
- ALL BARRICADES OR SIGNS USED FOR MAINTAINING TRAFFIC AT NIGHT SHALL BE LIGHTED.
- ALL NON-APPLICABLE WARNING SIGNS, REGULATORY SIGNS, AND CONSTRUCTION SIGNS SHALL BE COVERED OR REMOVED AS DIRECTED BY THE ENGINEER.
- ALL TEMPORARY SIGNS WHICH ARE TO REMAIN IN THE SAME PLACE FOR 30 DAYS OR MORE SHALL BE INSTALLED ON DRIVEN POSTS. SIGN POSTS SHALL BE 3 LBS/LF. COSTS FOR SIGN POSTS SHALL BE INCLUDED IN THE SIGN ITEM.
- PRIOR TO DRIVING POST FOR SIGNING, THE CONTRACTOR SHALL CALL MISS DIG (1-800 482-7171 OR 811) FOR THE LOCATIONS OF ALL UNDERGROUND UTILITIES, THREE WORKING DAYS PRIOR TO STARTING WORK.
- ACCESS MUST BE MAINTAINED TO ALL DRIVEWAYS AT ALL TIMES, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- SIDEWALKS AND DRIVEWAYS MUST BE REMOVED AND REPLACED ONE SIDE OF THE ROAD AT A TIME WITH THE SIDEWALK ACCESS CLOSED ON THAT SIDE OF THE STREET WHILE THE OPPOSITE SIDE IS OPEN AND MAINTAINED.
- MAINTENANCE AGGREGATE SHALL BE PLACED AS NEEDED TO MAINTAIN ACCESS TO DRIVEWAYS AND TO ALLOW ROADWAY TO REMAIN OPEN TO TRAFFIC AS INDICATED. PAID FOR AS Maintenance Gravel, Modified.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING, PLACING, MAINTAINING, AND REMOVING ALL TRAFFIC CONTROL DEVICES.
- DORT HIGHWAY WILL REQUIRE THE WESTERLY SOUTHBOUND LANE TO BE CLOSED AT TIMES DURING CONSTRUCTION. THE CONTRACTOR SHALL SET UP AND MAINTAIN LANE CLOSURES IN ACCORDANCE WITH M0020a, M0040a, AND M0240a. SEE SPECIAL PROVISION FOR MAINTAINING TRAFFIC FOR ADDITIONAL REQUIREMENTS.

**MISCELLANEOUS SIGNS**

SYMBOL	SIGN	DESIGNATION	SIZE	NUMBER OF SIGNS
	SIDEWALK CLOSED	R9-9	30" X 18"	40
	PEDESTRIAN TYPE II BARRICADE, TEMP			40
	SIDEWALK CLOSED AHEAD	R9-11	24" X 12"	10
	DETOUR	M4-9b	30" X 24"	*10
	DETOUR	M4-9bR	30" X 24"	*10
	DETOUR	M4-9bL	30" X 24"	*10

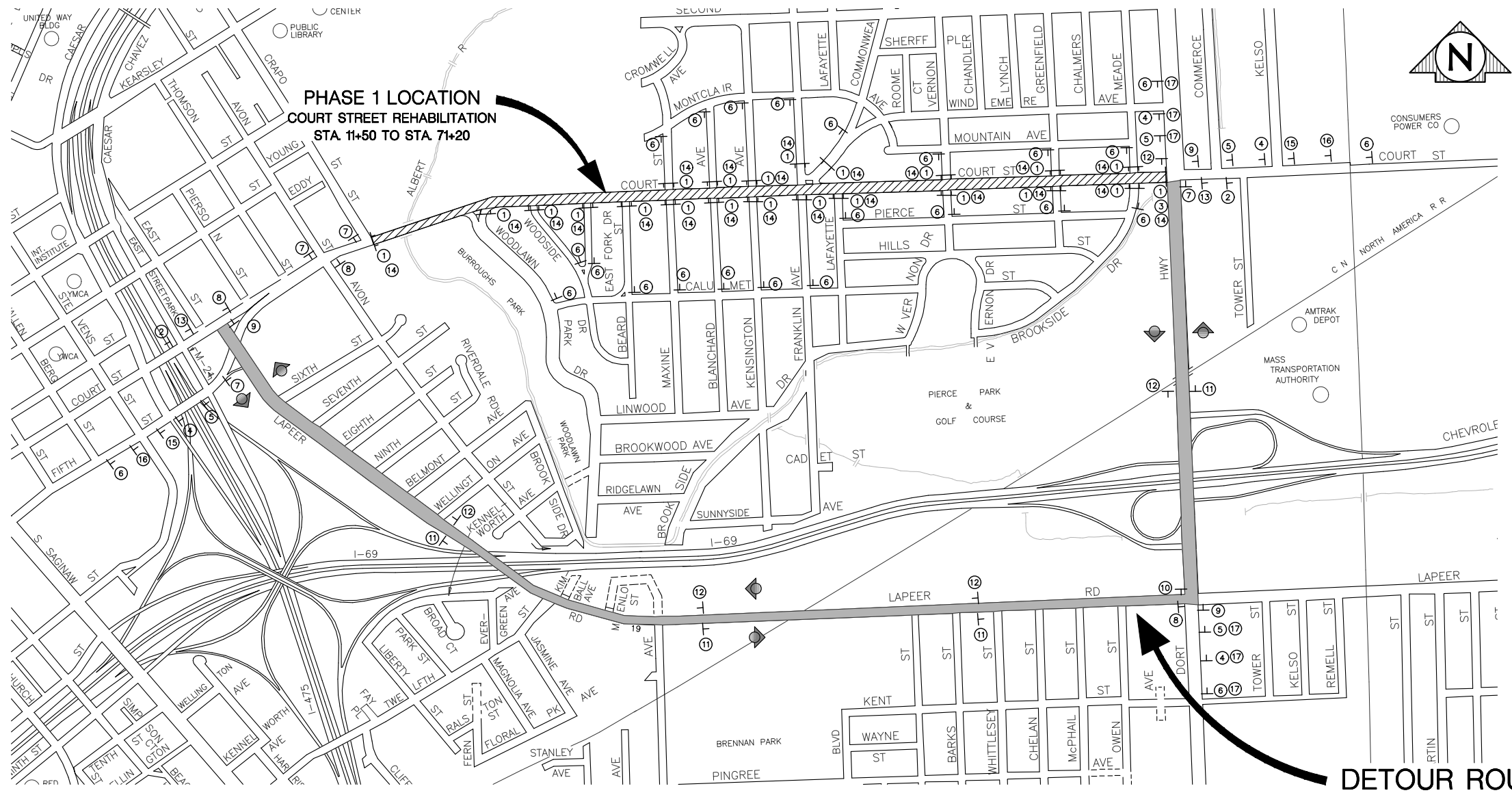
**LEGEND**

	TYPE III BARRICADE
	SIGNS
	WORK ZONE
	DETOUR ROUTE

\*PLACE ADDITIONAL M4-9bL, M4-9bR, & M4-9b SIGNS AS DIRECTED IN THE FIELD

**LEGEND**

SYMBOL	SIGN	DESIGNATION	SIZE	NUMBER OF SIGNS
	TYPE III BARRICADES	2	8'	44
	END ROAD WORK	G20-2	48" X 24"	2
	DETOUR	M4-10L	48" X 18"	1
	ROAD CLOSED AHEAD	W20-3	48" X 48"	4
	DETOUR AHEAD	W20-2	48" X 48"	4
	ROAD WORK AHEAD	W20-1	48" X 48"	24
	EB Court St DETOUR	D3-1 M4-9R	32" X 8" 30" X 24"	4
	EB Court St DETOUR	D3-1 M4-9L	32" X 8" 30" X 24"	3
	WB Court St DETOUR	D3-1 M4-9L	32" X 8" 30" X 24"	3
	WB Court St DETOUR	D3-1 M4-9R	32" X 8" 30" X 24"	1
	EB Court St DETOUR	D3-1 M4-9	32" X 8" 30" X 24"	4
	WB Court St DETOUR	D3-1 M4-9S	32" X 8" 30" X 24"	5
	END DETOUR	M4-8a	24" X 18"	2
	ROAD CLOSED TO THRU TRAFFIC	R11-4	60" X 30"	22
	TO PROTECT HIGHWAY WORKERS FINES DOUBLED IN WORK ZONES	R5-18a	96" X 60"	2
	INJURE / KILL A WORKER \$ 7500 + 15 YEARS	R5-18b	48" X 60"	2
	WB Court St	D3-1	32" X 8"	6



**DETOUR ROUTE**

PLAN DATE: JUNE 2019  
 PROJECT MGR: JMB  
 REVIEWER: TCL  
 SCALE: NOT TO SCALE

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PREPARED FOR  
**CITY OF FLINT**  
**COURT STREET REHABILITATION**  
 STAGE 1 DETOUR PLAN



**PLAN SUBMITTALS AND CHANGES**

BIDDING DOCUMENTS	
DATE	DESCRIPTION
6/5/2019	ISSUED FOR BIDS

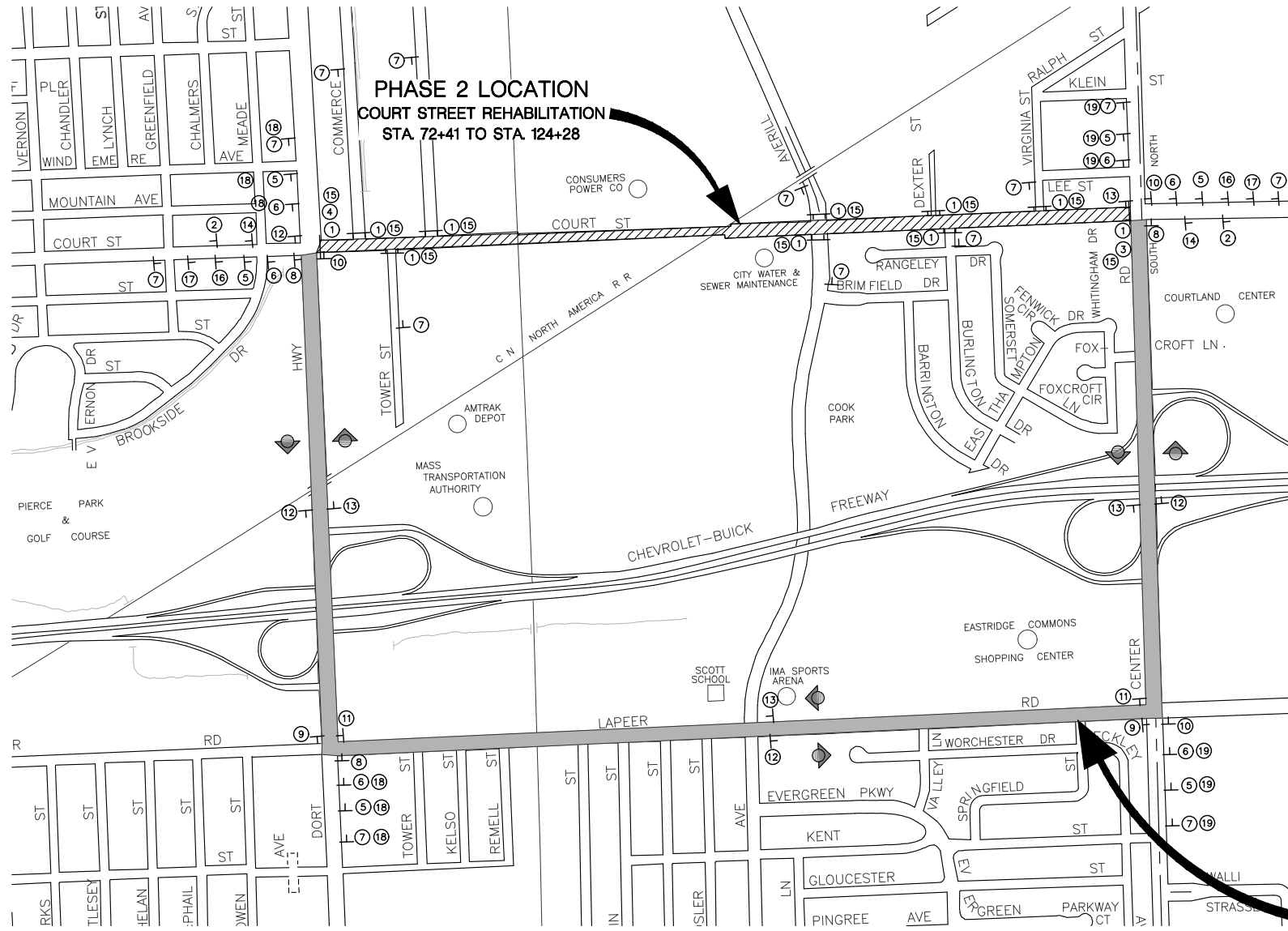
REV: \_\_\_\_\_  
 SHT# 99 of 100  
 JOB No: 18C0137

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### MAINTAINING TRAFFIC NOTES

- ALL MEASURES REQUIRED FOR MAINTAINING TRAFFIC DURING CONSTRUCTION SHALL CONFORM WITH THE 2011 EDITION OF THE MICHIGAN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, AS AMENDED, AND THE 2012 MDT STANDARD SPECIFICATIONS FOR CONSTRUCTION (SECTION 812) UNLESS MODIFIED BY THIS PLAN OR DIRECTED OTHERWISE BY THE ENGINEER.
- SIGNS SHALL BE TYPE B, TEMP, WITH A 7' BOTTOM HEIGHT UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
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- ALL BARRICADES OR SIGNS USED FOR MAINTAINING TRAFFIC AT NIGHT SHALL BE LIGHTED.
- ALL NON-APPLICABLE WARNING SIGNS, REGULATORY SIGNS, AND CONSTRUCTION SIGNS SHALL BE COVERED OR REMOVED AS DIRECTED BY THE ENGINEER.
- ALL TEMPORARY SIGNS WHICH ARE TO REMAIN IN THE SAME PLACE FOR 30 DAYS OR MORE SHALL BE INSTALLED ON DRIVEN POSTS. SIGN POSTS SHALL BE 3 LBS/LF. COSTS FOR SIGN POSTS SHALL BE INCLUDED IN THE SIGN ITEM.
- PRIOR TO DRIVING POST FOR SIGNING, THE CONTRACTOR SHALL CALL MISS DIG (1-800 482-7171 OR 811) FOR THE LOCATIONS OF ALL UNDERGROUND UTILITIES, THREE WORKING DAYS PRIOR TO STARTING WORK.
- ACCESS MUST BE MAINTAINED TO ALL DRIVEWAYS AT ALL TIMES, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- SIDEWALKS AND DRIVEWAYS MUST BE REMOVED AND REPLACED ONE SIDE OF THE ROAD AT A TIME WITH THE SIDEWALK ACCESS CLOSED ON THAT SIDE OF THE STREET WHILE THE OPPOSITE SIDE IS OPEN AND MAINTAINED.
- MAINTENANCE AGGREGATE SHALL BE PLACED AS NEEDED TO MAINTAIN ACCESS TO DRIVEWAYS AND TO ALLOW ROADWAY TO REMAIN OPEN TO TRAFFIC AS INDICATED. PAID FOR AS Maintenance Gravel, Modified.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING, PLACING, MAINTAINING, AND REMOVING ALL TRAFFIC CONTROL DEVICES.
- DORT HIGHWAY WILL REQUIRE THE EASTERLY NORTHBOUND LANE TO BE CLOSED AT TIMES DURING CONSTRUCTION. THE CONTRACTOR SHALL SET UP AND MAINTAIN LANE CLOSURES IN ACCORDANCE WITH M0020a, M0040a, AND M0240a. SEE SPECIAL PROVISION FOR MAINTAINING TRAFFIC FOR ADDITIONAL REQUIREMENTS.
- AVERILL SHALL REMAIN OPEN AT ALL TIMES EXCEPT FOR THE PROPOSED WATER MAIN CONSTRUCTION THROUGH THE INTERSECTION. SEE SPECIAL PROVISION FOR MAINTAINING TRAFFIC FOR ADDITIONAL REQUIREMENTS.
- CENTER AVENUE WILL REQUIRE THE WESTERLY SOUTHBOUND LANE TO BE CLOSED AT TIMES DURING CONSTRUCTION. THE CONTRACTOR SHALL SET UP AND MAINTAIN LANE CLOSURES IN ACCORDANCE WITH M0020a, M0040a, AND M0240a. SEE SPECIAL PROVISION FOR MAINTAINING TRAFFIC FOR ADDITIONAL REQUIREMENTS.



LEGEND	
	TYPE III BARRICADE
	SIGNS
	WORK ZONE
	DETOUR ROUTE

MISCELLANEOUS SIGNS			
SYMBOL	DESIGNATION	SIZE	NUMBER OF SIGNS
	R9-9	30" X 18"	20
	PEDESTRIAN TYPE II BARRICADE, TEMP		20
	R9-11	24" X 12"	10
	M4-9b	30" X 24"	*10
	M4-9bR	30" X 24"	*10
	M4-9bL	30" X 24"	*10

\*PLACE ADDITIONAL M4-9bL, M4-9bR, & M4-9b SIGNS AS DIRECTED IN THE FIELD

LEGEND				
SYMBOL	SIGN	DESIGNATION	SIZE	NUMBER OF SIGNS
①		2 TYPE III BARRICADES	8'	20
②		G20-2	48" X 24"	2
③		M4-10L	48" X 18"	1
④		M4-10R	48" X 18"	1
⑤		W20-3	48" X 48"	6
⑥		W20-2	48" X 48"	6
⑦		W20-1	48" X 48"	13
⑧		D3-1 M4-9R	32" X 8" 30" X 24"	3
⑨		D3-1 M4-9L	32" X 8" 30" X 24"	2
⑩		D3-1 M4-9L	32" X 8" 30" X 24"	3
⑪		D3-1 M4-9R	32" X 8" 30" X 24"	2
⑫		D3-1 M4-9	32" X 8" 30" X 24"	4
⑬		D3-1 M4-9S	32" X 8" 30" X 24"	4
⑭		M4-8a	24" X 18"	2
⑮		R11-4	60" X 30"	10
⑯		R5-18a	96" X 60"	2
⑰		R5-18b	48" X 60"	2
⑱		D3-1	32" X 8"	6
⑲		D3-1	32" X 8"	6

DETOUR ROUTE



PLAN SUBMITTALS AND CHANGES		REV:
DATE	DESCRIPTION	
6/5/2019	ISSUED FOR BIDS	

SHT# 100 of 100  
JOB No: 18C0137

PLAN DATE: JUNE 2019  
PROJECT MGR: JMB  
REVIEWER: TCL  
SCALE: NOT TO SCALE

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PREPARED FOR  
**CITY OF FLINT**  
**COURT STREET REHABILITATION**  
 STAGE 2 DETOUR PLAN