

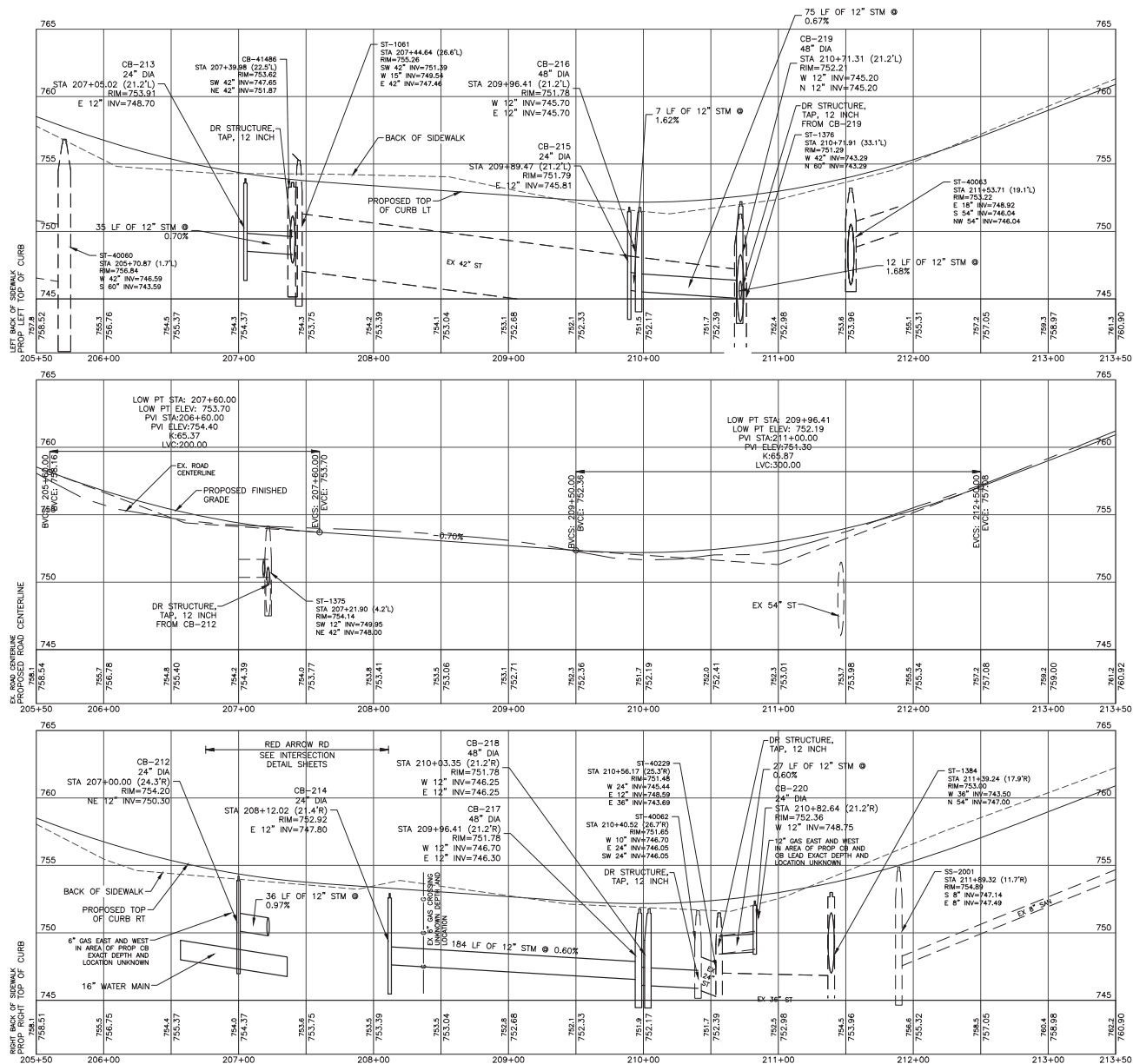
## ROAD CONSTRUCTION PLAN

NOTES:

1. WHERE STRUCTURE DETAIL NUMBERS ADJ-2, ADJ-3, ADJ-5 AND ADJ-6 ARE INDICATED ON THE PLANS, NUMBERS 1, 2, 3, 5 AND 6 CORRESPOND TO CITY OF FLINT CASTING DETAIL NUMBERS CF-1, CF-2, CF-3, CF-5 AND CF-6 RESPECTIVELY. THE STRUCTURES ARE TO BE ADJUSTED TO FINAL GRADE WITH NEW STRUCTURE FRAMES AND COVERS AS INDICATED ON THE LEGEND SHEET AND THE CITY OF FLINT CASTING DETAILS SHEET. CASTINGS OF CF-1, CF-2, CF-6 ARE PAID FOR AS PAY ITEM "DR STRUCTURE COVER, TYPE B". CASTINGS OF CF-3 ARE PAID FOR AS PAY ITEM "DR STRUCTURE COVER, TYPE K". CASTING CF-5 IS PAID FOR AS "DR STRUCTURE COVER, TYPE G". ALL OTHER STRUCTURE COVER TYPES WILL REFER TO THE STANDARD PLANS.
2. EXISTING STORM STRUCTURES THAT ARE TO BE TAPPED WITH A PROPOSED STORM SEWER ARE INDICATED IN THE STRUCTURE TABLE AS ST-###. THE "ST" INDICATES STRUCTURE TAP AND THE NUMBER (###) INDICATES THE EXISTING STORM STRUCTURE WHICH IS BEING TAPPED.
3. WHERE PIPES ARE DESIGNATED FOR REMOVAL, THEY ARE TO BE REMOVED TO AN EXISTING STRUCTURE WHICH WILL REMAIN IN PLACE. THE PIPE OPENING IN THE STRUCTURE SHALL BE REPAIRED/BULK HEADED WITH BRICK AND MORTAR AS APPROVED BY THE ENGINEER.
4. MOOT SOIL EROSION CONTROL MEASURE 29 IS INDICATED IN THE TOP PORTION OF THE SHEET FOR EXISTING STORM STRUCTURES WHICH IS TO BE PROTECTED. SOIL EROSION CONTROL MEASURE 29 SHALL ALSO BE APPLIED TO EACH PROPOSED STORM CATCH BASIN WHICH IS INDICATED IN THE STRUCTURE TABLE AS CB-##.
5. WHERE CATCH BASIN RIM ELEVATIONS ARE INDICATED ON THESE PLANS, THE ELEVATION LISTED REPRESENTS THE EDGE OF PAVEMENT ELEVATION.
6. FOR ADDITIONAL CURB RADIUS INFORMATION AND DETAILED INTERSECTION GRADING, REFER TO THE DETAILED INTERSECTION GRADING SHEETS.

PROPOSED DRAINAGE STRUCTURES							
STR NO	STATION	OFFSET	SIZE	RIM	COVER TYPE	PIPE, DIRECTION, SIZE, AND INVERT	DISTANCE TO DOWN STREAM STR
CB-212	207+00.00	24.3' R	24"	754.20	K	NE 12" 750.30	35.98' ST-1375
CB-213	207+05.02	21.2' L	24"	753.91	K	E 12" 748.70	34.98' ST-EX41486
ST-1375	207+21.90	4.2' L				SW 12" 749.88 NE 42" 748.00	25.72' ST-EX41486
ST-EX41486	207+39.98	22.5' L				W 12" 748.45 NE 42" 747.65 SW 42" 747.65	6.23' ST-EX1061
CB-215	209+89.47	21.2' L	24"	751.79	K	E 12" 745.81	6.94' CB-216
CB-216	209+96.41	21.2' L	48"	751.78	K	E 12" 745.70 W 12" 745.70	74.89' CB-219
CB-219	210+71.31	21.2' L	48"	752.21	K	N 12" 745.20 W 12" 745.20	11.87' ST-1376
ST-1376	210+71.91	33.1' L				W 42" 743.29 N 60" 743.29 S 12" 745.00	31.47'
CB-214	208+12.02	21.4' R	24"	752.92	K	E 12" 747.80	184.39' CB-217
CB-217	209+96.41	21.2' R	48"	751.78	K	W 12" 746.70 E 12" 746.30	6.94' CB-218
CB-218	210+03.35	21.2' R	48"	751.78	K	W 12" 746.25 E 12" 746.25	37.56' ST-40062
ST-40062	210+40.52	26.7' R				W 12" 746.05 E 24" 746.05	15.71' ST-40229
ST-40229	210+56.17	25.3' R				E 24" 745.44 E 36" 743.69 W 12" 748.59	83.40' ST-1394
CB-220	210+82.64	21.2' R	24"	752.36	K	W 12" 748.75	26.79' ST-40229

- NOTES:
1. PORTIONS OF THE PROPOSED WATER MAIN HAS BEEN SHOWN IN PROFILE VIEW WHERE CROSSING THE PROPOSED STORM SEWER. THE PROPOSED HYDRANT LEADS AND WATER MAIN CROSSINGS OF PROPOSED STORM SEWERS AT EACH SIDE STREET CONNECTION TO THE EXISTING WATER MAIN HAVE BEEN SHOWN IN PLAN VIEW. THE CONTRACTOR SHALL WATER MAIN CONSTRUCTION. FOR ADDITIONAL INFORMATION ON WATER MAIN CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING THE PROPOSED WATER MAIN AT A DEPTH THAT PROVIDES A MINIMUM OF 18" VERTICAL CLEARANCE AT EACH CROSSING OF THE PROPOSED STORM SEWER. IF THIS REQUIRES THE ADJUSTMENT OF PROPOSED WATER MAIN OR STORM SEWER DEPTHS OR LOCATIONS FROM THE PROPOSED PROFILES, THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE THESE ADJUSTMENTS WITH THE PROJECT ENGINEER.
2. THE EXACT LOCATION AND DEPTH OF EXISTING WATER MAINS ARE UNKNOWN AND THEIR CROSSING OF THE PROPOSED STORM SEWERS HAVE NOT BEEN SHOWN ON THESE PROFILES.
3. EXISTING PRIVATE UTILITY LOCATIONS AND DEPTHS ARE UNKNOWN. WHERE POSSIBLE A NOTE HAS BEEN ADDED TO THE PROFILE SHEETS TO INDICATE THEIR DEPTHS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPOSED STRUCTURE. IF A CONFLICT BETWEEN ANY EXISTING UTILITY AND A PROPOSED UTILITY IS FOUND DURING CONSTRUCTION OF THE PROJECT, THE CONTRACTOR SHALL COORDINATE ANY REQUIRED ADJUSTMENTS WITH THE PROJECT ENGINEER.



JOB NO. JN201292

[illegible]

555 S. Saginaw Street, Suite 201  
Evanston, IL 48502  
810-235-2555  
www.wisefirm.com



CITY OF FLINT  
1101 SOUTH SAGINAW STREET  
FLINT, MI 48502  
ATHERTON ROAD  
ATHERTON PROFILE 15

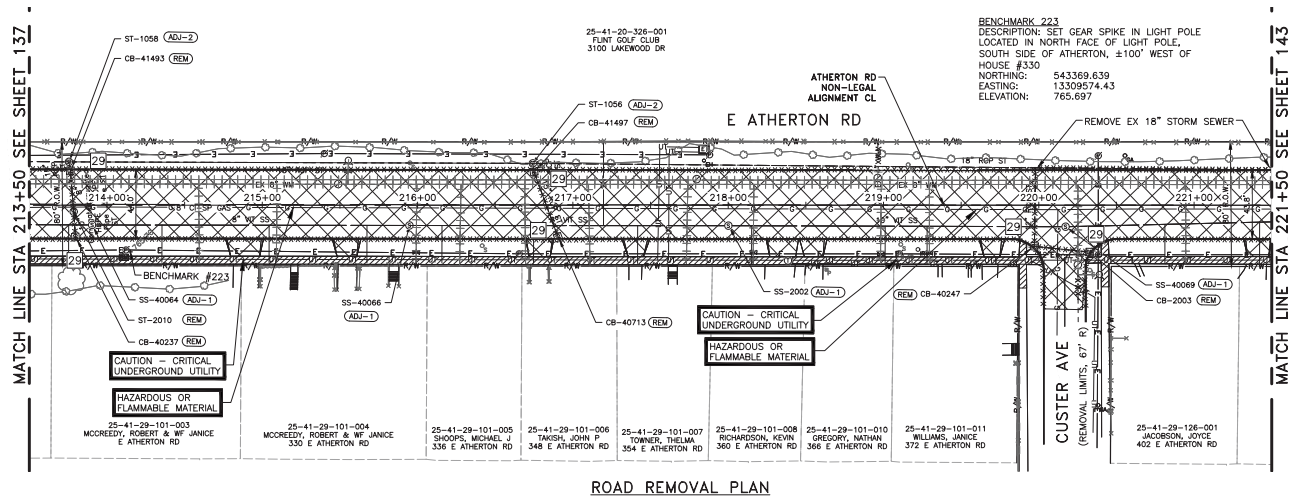
ISSUED FOR:	DATE:	BY:
GI PLANS	10/25/18	JJS
FINAL REVIEW	2/25/19	JJS
FINAL PLANS	4/19/19	JJS

JOB NO.  
COE1065 015

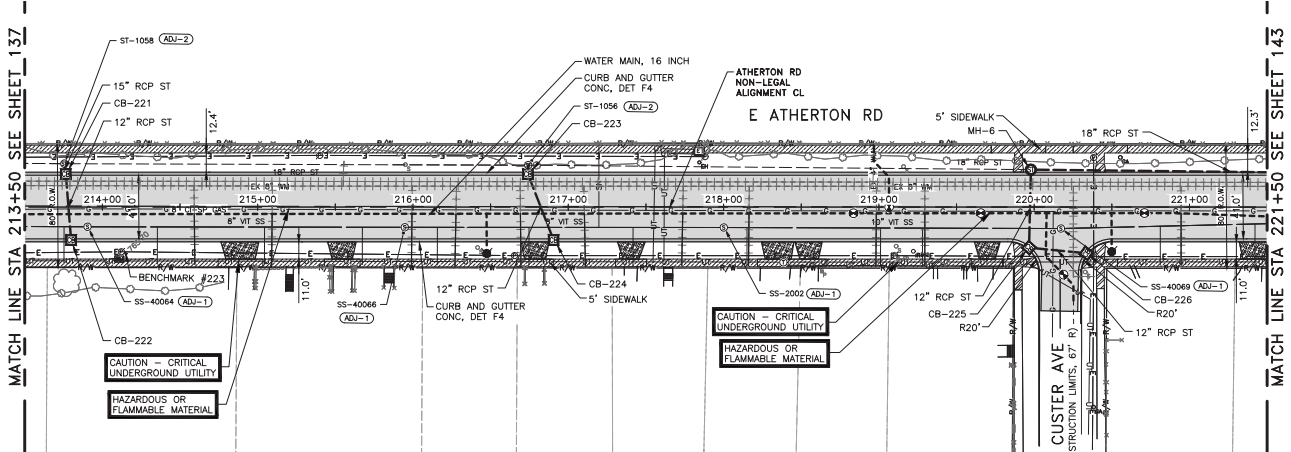
SHEET

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ROAD REMOVAL PLAN



ROAD CONSTRUCTION PLAN

NOTES:

- WHERE STRUCTURE ADJ-1, ADJ-2, ADJ-3, ADJ-5 AND ADJ-6 ARE INDICATED ON THE PLANS, NUMBERS 1, 2, 3, 5 AND 6 CORRESPOND TO CITY OF FLINT CASTING DETAIL NUMBERS CF-1, CF-2, CF-3, CF-5, CF-6 RESPECTIVELY. THE STRUCTURES ARE TO BE ADJUSTED TO FINAL GRADE WITH NEW STRUCTURE FRAMES AND COVERS AS INDICATED ON THE LEGEND SHEET AND THE CITY OF FLINT CASTING DETAILS SHEET. CASTINGS CF-1, CF-2, CF-6 ARE PAID FOR AS PAY ITEM FOR STRUCTURE COVER, TYPE "P". CASTINGS CF-3 ARE PAID FOR AS PAY ITEM FOR STRUCTURE COVER, TYPE "K". CASTING CF-5 IS PAID FOR AS "DR STRUCTURE COVER, TYPE G". ALL OTHER STRUCTURE COVER TYPES WILL REFER TO MDOT STANDARD PLANS.
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DRIVEWAY QUANTITIES - THIS SHEET					
STA	SIDE	HOUSE #	PAVT, REM, MODIFIED (SYD)	DRIVEWAY, NONREINF CONC, 6 INCH (SYD)	DRIVEWAY, NONREINF CONC, 9 INCH (SYD)
214+87	R	330	26	26	0
215+54	R	330	19	19	0
216+78	R	348	20	19	0
217+40	R	354	15	17	0
218+35	R	360	23	23	0
218+54	R	366	18	18	0
219+69	R	372	17	16	0
221+40	R	410	19	19	0

MAINLINE QUANTITIES - THIS SHEET		
ITEM	JN 201292 CAT 0001 QUANTITY	UNIT
Dr Structure, Rem	7	EA
Sewer, Rem, Less Than 24 inch	184	SYD
Sidewalk, Rem	459	SYD
Pavt, Rem, Modified	4135	SYD
Tree Rem, 6 inch to 18 inch	4	EA
Tree Rem, 19 inch to 36 inch	2	EA
Clearing	0.5	ACRE
Embankment, Clip	90	CYD
Excavation, Earth	1469	CYD
Aggregate Base, 6 inch	705	SYD
Aggregate Base, 12 inch	4248	SYD
Sewer, CI A, 12 inch, Tr Det B	181	FT
Sewer, CI E, 15 inch, Tr Det B	6	FT
Sewer, CI A, 15 inch, Tr Det B	7	FT
Sewer, CI A, 18 inch, Tr Det B	150	FT
Sewer Bulkhead, 12 inch	1	EA
Dr Structure Cover, Adj, Case 1	6	EA
Dr Structure Cover, Type B	7	EA
Dr Structure Cover, Type K	6	EA
Dr Structure, 24 inch dia	3	EA
Dr Structure, 48 inch dia	4	EA
Dr Structure, Adj, Add Depth	1	FT
Dr Structure, Tap, 15 inch	2	EA
Underdrain, Subgrade, 6 inch	1600	FT
Hand Patching	1	TON
Hma, 3E1	663	TON
Hma, 4E1	442	TON
Hma, 5E1	331	TON
Hma Approach	30	TON
Driveway, Nonreinf Conc, 6 inch	158	SYD
Curb And Gutter, Conc, Det F4	1640	FT
Detectable Warning Surface	27	FT
Curb Ramp Opening, Conc	46	FT
Sidewalk Ramp, Conc, 6 inch	1097	SFT
Sidewalk, Conc, 4 inch	7038	SFT
Turf Establishment, Performance	2683	SYD

PROPOSED DRAINAGE STRUCTURES						
STR NO	STATION	OFFSET	SIZE	RIM	COVER TYPE	PIPE DIRECTION, SIZE, AND INVERT
ST-1058	213+75.47	27.9' L				W 18" 757.26 E 18" 757.64 S 15" 757.49
CB-221	213+76.43	21.2' L	48"	761.53	K	S 12" 757.60 N 15" 757.60
CB-222	213+79.85	21.2' R	24"	761.66	K	N 12" 757.90
CB-223	216+74.01	21.2' L	48"	771.05	K	S 12" 766.30 N 15" 766.30
ST-1056	216+74.18	26.9' L				S 15" 766.19
CB-224	216+90.51	21.2' R	24"	771.35	K	N 12" 766.60
CB-225	219+96.71	26.2' R	48"	772.66	K	E 12" 767.20 N 12" 767.20
MH-6	219+97.90	24.1' L	48"	772.79	B	W 18" 765.25 S 12" 766.30 E 18" 765.25
CB-226	220+33.58	29.7' R	24"	772.51	K	W 12" 767.50



Know what's below.  
Call before you dig.

BY

DESCRIPTION

DATE

REV#

WADE TRIM

1101 SOUTH SAGINAW STREET  
FLINT, MI 48502  
ATHERTON ROAD  
ATHERTON PLAN AND REMOVAL SHEET 16

ISSUED FOR: DATE: BY:  
G1 PLANS 10/25/18 JLS  
FINAL REVIEW 2/25/19 JLS  
FINAL PLANS 4/19/19 JLS

JOB NO:  
COF1065.01F

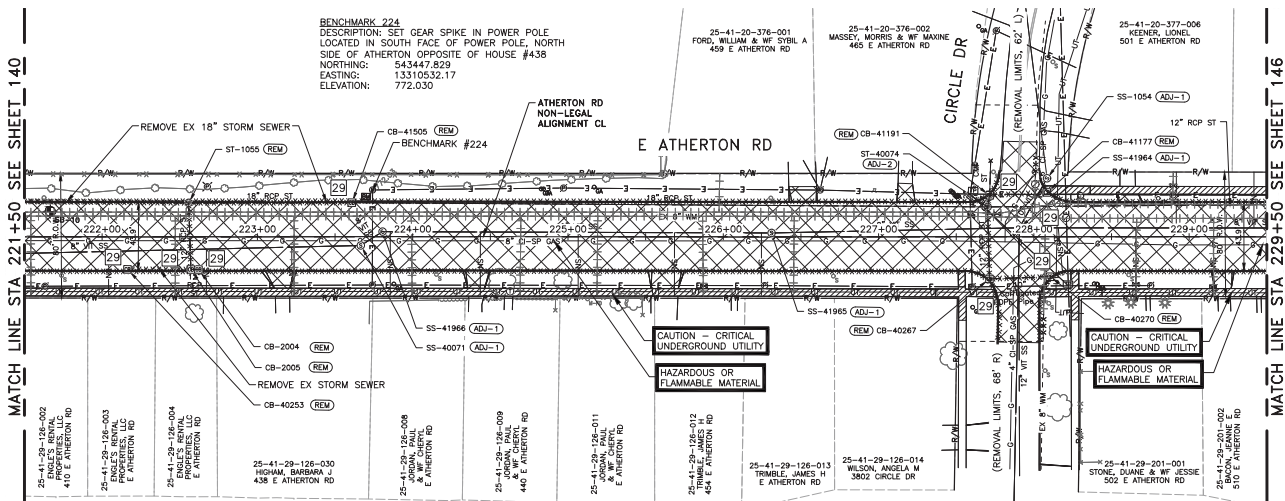
SHEET  
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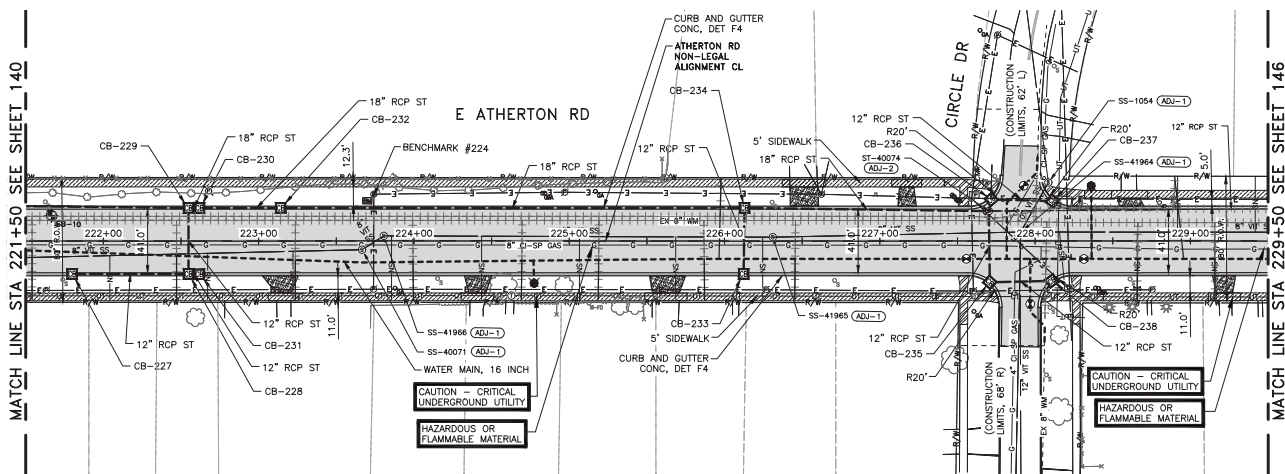




MATCH LINE STA 221+50 SEE SHEET 140



## ROAD REMOVAL PLAN



## ROAD CONSTRUCTION PLAN

DRIVEWAY QUANTITIES - THIS SHEET						
STA	SIDE	HOUSE #	PAVT, REM, MODIFIED (SYD)	DRIVEWAY, NONREINF CONC, 6 INCH (SYD)	DRIVEWAY, NONREINF CONC, 9 INCH (SYD)	AGGREGATE BASE, 6 INCH (SYD)
223+15	R	438	20	13	0	13
224+41	R	440	17	17	0	17
225+64	R	454	25	25	0	25
226+51	L	459	19	25	0	25
227+18	L	465	14	14	0	14
228+62	L	501	8	8	0	8
229+21	R	510	15	15	0	15

## NOTES

- NOTES:
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  2. EXISTING STORM STRUCTURES THAT ARE TO BE TAPPED WITH A PROPOSED STORM SEWER ARE INDICATED IN THE STRUCTURE TABLE AS ST-###. THE "ST" INDICATES STRUCTURE TAP AND THE NUMBER (###) INDICATES THE EXISTING STORM STRUCTURE WHICH IS BEING TAPPED.
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JOB NO. JN201292

MAINLINE QUANTITIES – THIS SHEET			
ITEM	JN 201292		UNIT
	CAT 0001		
	QUANTITY		
Dr Structure, Rem	9	EA	
Sewer, Rem, Less Than 24 inch	832	FT	
Sidewalk, Rem	537	SYD	
Pavt, Rem, Modified	4176	SYD	
Tree Rem, 6 inch to 18 inch	1	EA	
Tree Rem, 19 inch to 36 inch	1	EA	
Clearing	0.2	ACRE	
Embankment, Cip	90	CYD	
Excavation, Earth	1455	CYD	
Aggregate Base, 6 inch	675	SYD	
Aggregate Base, 12 inch	4336	SYD	
Sewer, CI E, 12 inch, Tr Det B	122	FT	
Sewer, CI A, 12 inch, Tr Det B	169	FT	
Sewer, CI A, 18 inch, Tr Det B	607	FT	
Dr Structure Cover, Adj, Case 1	6	EA	
Dr Structure Cover, Type B	6	EA	
Dr Structure Cover, Type K	12	EA	
Dr Structure, 24 inch dia	6	EA	
Dr Structure, 48 inch dia	6	EA	
Dr Structure, Adj, Add Depth	1	FT	
Dr Structure, Tap, 12 inch	1	EA	
Dr Structure, Tap, 18 inch	1	EA	
Underdrain Subgrade, 6 inch	1600	FT	
Hand Patching	1	TON	
Hma, 3E1	663	TON	
Hma, 4E1	442	TON	
Hma, 5E1	332	TON	
Hma Approach	62	TON	
Driveway, Nonrelief Conc, 6 inch	117	SYD	
Curb And Gutter, Conc, Det F4	1675	FT	
Detectable Warning Surface	39	FT	
Curb Ramp Opening, Conc	55	FT	
Sidewalk Ramp, Conc, 6 inch	1375	SFT	
Sidewalk, Conc, 4 inch	6698	SFT	
Turf Establishment, Performance	2571	SYD	

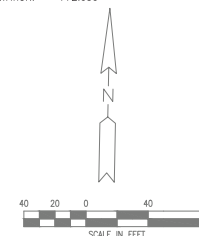
PROPOSED DRAINAGE STRUCTURES							
STR NO	STATION	OFFSET	SIZE	RIM	COVER TYPE	PIPE, SIZE, INVERT, SLOPE, DIRECTION	DISTANCE TO DOWN STREAM STR
CB-227	221+79.91	21.2'	R 24"	771.37	K	E 12" 767.75	74.92' CB-228
CB-229	222+54.83	21.2'	L 48"	771.23	K	E 18" 766.30 S 12" 767.05 W 18" 766.30	256.94' MH-6
CB-228	222+54.83	21.2'	R 48"	771.23	K	N 12" 767.35 W 12" 767.35 E 12" 767.35	42.50' CB-229
CB-231	222+61.81	21.4'	R 24"	771.23	K	W 12" 767.40	6.98' CB-228
CB-230	222+61.91	21.2'	L 48"	771.23	K	E 18" 766.35 W 18" 766.35	7.08' CB-229
CB-232	223+14.18	21.3'	L 24"	771.33	K	E 18" 766.55 W 18" 766.55	52.27' CB-230
CB-233	226+12.29	21.2'	R 24"	773.89	K	N 12" 770.06	42.50' CB-234
CB-234	226+12.87	21.2'	L 48"	773.90	K	W 18" 767.68 S 12" 769.80 E 18" 767.68	298.69' CB-232
ST-40074	227+70.21	19.2'	L			E 12" 771.50 S 12" 771.50 N 12" 771.50 W 18" 768.28	157.35' CB-234
CB-235	227+70.83	26.6'	R 48"	775.29	K	E 12" 771.80 N 12" 771.80	45.83' ST-40075
CB-236	227+71.75	26.8'	L 48"	775.30	K	E 12" 771.60 S 12" 771.60	7.78' ST-40076
CB-238	228+10.70	25.7'	R 24"	775.69	K	W 12" 772.10	39.90' CB-235
CB-237	228+11.27	25.6'	L 24"	775.33	K	W 12" 771.80	39.52' CB-236



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NOTES:

1. WATER MAIN SHALL BE TESTED IN ACCORDANCE WITH AWWA C600-10, AND CHLORINATED IN ACCORDANCE WITH THE LATEST THE CITY OF FLINT STANDARDS AND THE WATER MAIN INSPECTION PROVISIONS. ALL TESTS SHALL BE OBSERVED AND MONITORED BY FLINT.
2. THE CONTRACTOR SHALL INSTALL, AS A MINIMUM, 2" CORPORATIONS ON THE PRESSURE PIPE FOR PRESSURE TESTING, CHLORINE ADDITION, AND FOR BLOW-OFF PURPOSES. THE CONTRACTOR SHALL ALSO INSTALL 2" AIR RELEASE VALVES AT 100' INTERVALS TO PROVIDE SATISFACTORY TEST AND INSTALL COPPER THREADED PLUGS PRIOR TO FINAL ACCEPTANCE.
3. WATER MAIN SHALL HAVE AT LEAST 10' OF HORIZONTAL SEPARATION AND 18" VERTICAL SEPARATION FROM ALL EXISTING UTILITY LINES.
4. GATE VALVES AT THE END OF LINES SHALL HAVE ONE PIPE LENGTH ADDED PRIOR TO ENDING WITH A HYDRANT.
5. A MINIMUM OF 5.5'-FEET OF COVER SHALL BE ACHIEVED OVER THE WATER MAIN AT ALL TIMES.
6. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING WATER MAIN SIZE AND LOCATIONS PRIOR TO CONSTRUCTION.
7. ALL BACKFILL SHALL BE IN ACCORDANCE WITH THE CITY OF FLINT DETAIL SD-7W.
8. REMOVE EXISTING HYDRANTS AS INDICATED ON THE PLANS. CONTRACTOR SHALL CLEARLY MARK WHERE THE EXISTING HYDRANTS ARE LOCATED. REMOVE ALL OUT OF SERVICE HYDRANTS.
9. DEFLECT WATER MAIN AS NOTED ON THE PLANS. DEFLECT WATER MAIN NO MORE THAN ONE-HALF OF THE MANUFACTURER'S RECOMMENDED MAXIMUM DEFLECTION FOR EACH JOINT. IF NEEDED, USE BENDS TO MAKE DEFLECTIONS. ADDITIONAL BENDS ARE INCIDENTAL TO WATER MAIN.

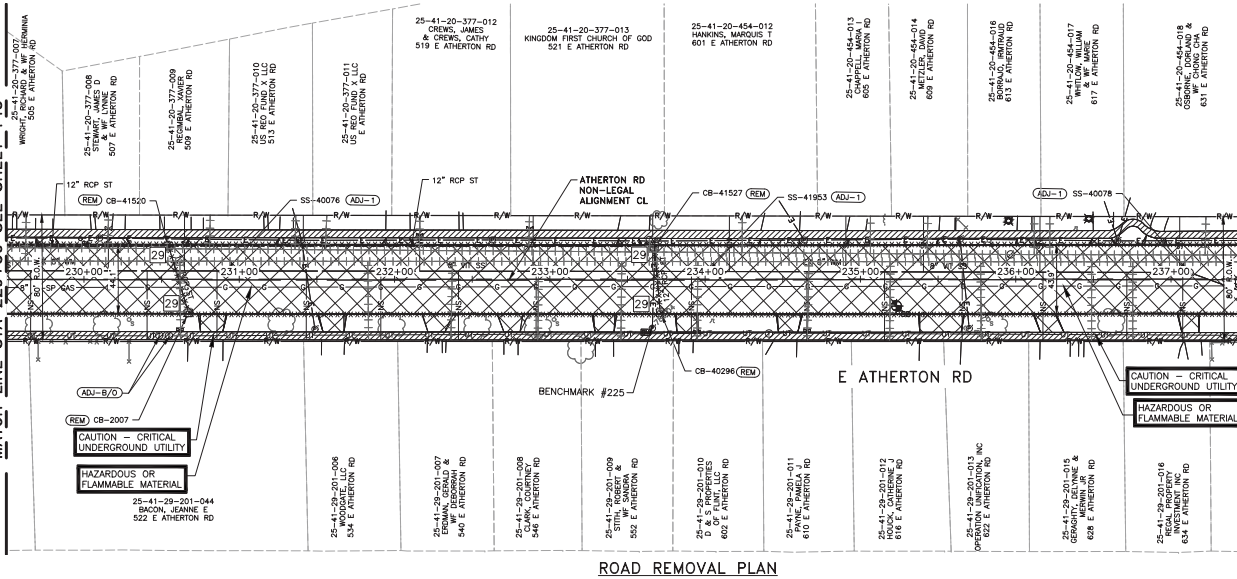




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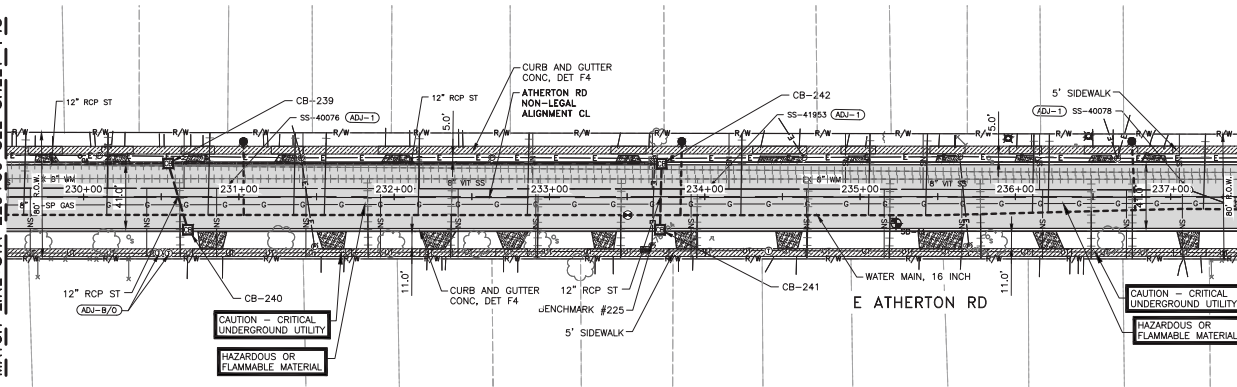
MATCH LINE STA 229+50 SEE SHEET 143

MATCH LINE STA 229+50 SEE SHEET 143



ROAD REMOVAL PLAN

MATCH LINE STA 229+50 SEE SHEET 143



ROAD CONSTRUCTION PLAN

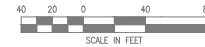
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PROPOSED DRAINAGE STRUCTURES

STR NO	STATION	OFFSET	SIZE	RIM	COVER TYPE	PIPE DIRECTION, SIZE, AND INVERT	DISTANCE TO DOWN STREAM STR
CB-239	230+54.51	21.5' L	48"	777.61	K	W 12" 773.85 S 12" 773.85	284.30' ST-40074
CB-240	230+67.15	21.2' R	24"	777.67	K	N 12" 774.10	44.55' CB-239
CB-241	233+71.14	21.2' R	24"	778.90	K	N 12" 775.40	42.46' CB-242
CB-242	233+72.22	21.2' L	48"	778.90	K	W 12" 775.05 S 12" 775.15	317.71' CB-239

BENCHMARK #225  
DESCRIPTION: SET GEAR SPIKE IN LIGHT POLE  
LOCATED IN NORTH FACE OF LIGHT POLE, SOUTH  
SIDE OF AATHERTON AT HOUSE #952  
NORTHING: 543407.506  
EASTING: 13311524.85  
ELEVATION: 780.037



MAINLINE QUANTITIES - THIS SHEET

ITEM	QUANTITY	UNIT
Dr Structure, Rem	4	EA
Sewer, Rem, Less Than 24 inch	85	FT
Sidewalk, Rem	898	SYD
Pavt, Rem, Modified	4193	SYD
Embankment, Clip	90	CYD
Excavation, Earth	1483	CYD
Aggregate Base, 6 inch	816	SYD
Aggregate Base, 12 inch	4175	SYD
Sewer, Cl E, 12 inch, Tr Det B	87	FT
Dr Structure Cover, Adj, Case 1	3	EA
Dr Structure Cover, Type B	3	EA
Dr Structure Cover, Type K	4	EA
Dr Structure, 24 inch dia	2	EA
Dr Structure, 48 inch dia	2	EA
Dr Structure, Adj, Add Depth	1	FT
Underdrain, Subgrade, 6 inch	1600	FT
Hand Patching	1	TON
Hma, 3E1	663	TON
Hma, 4E1	442	TON
Hma, 5E1	331	TON
Driveway, Nonreinf Conc, 6 inch	283	SYD
Curb And Gutter, Conc, Det F4	1600	FT
Sidewalk Ramp, Conc, 6 inch	1639	SFT
Sidewalk, Conc, 4 inch	6487	SFT
Turf Establishment, Performance	1856	SYD

DRIVEWAY QUANTITIES - THIS SHEET

STA	SIDE	HOUSE #	PAVT, REM, MODIFIED (SYD)	DRIVEWAY, NONREINF CONC, 6 INCH (SYD)	DRIVEWAY, NONREINF CONC, 9 INCH (SYD)	AGGREGATE BASE, 6 INCH (SYD)
229+76	L	505	7	7	0	7
230+22	L	507	6	6	0	6
230+73	L	509	6	6	0	6
230+83	R	522	21	20	0	20
231+30	L	513	6	6	0	6
231+60	R	534	20	20	0	20
232+02	L	519	9	8	0	8
232+27	R	540	21	20	0	20
232+75	R	546	19	19	0	19
233+34	R	552	17	17	0	17
233+51	L	521	7	7	0	7
233+87	R	602	18	17	0	17
234+47	L	601	11	11	0	11
234+54	R	610	18	18	0	18
234+99	L	605	6	6	0	6
235+46	R	616	18	34	0	34
235+56	R	622	18	0	0	0
235+56	R	622	18	0	0	0
236+05	L	613	6	6	0	6
236+19	R	628	19	18	0	18
236+55	L	617	6	6	0	6
236+88	L	631	7	7	0	7
237+11	R	634	17	16	0	16

CITY OF FLINT  
1101 SOUTH SAGINAW STREET  
FLINT, MI 48502  
AATHERTON ROAD  
AATHERTON PLAN AND REMOVAL SHEET 18

ISSUED FOR: DATE: BY:  
21 PLANS 10/25/18 JLS  
FINAL REVIEW 2/25/19 JLS  
FINAL PLANS 4/19/19 JLS

JOB NO.  
COF1065.01F

SHEET

146



555 N. Saginaw Street, Suite 201  
Flint, MI 48503  
www.wadetrims.com

DESCRIPTION

REV#

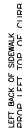
DATE

BY

**PROJECT MANAGER:** Jeremy Schrot



3. EXISTING PRIVATE UTILITY LOCATIONS AND DEPTHS ARE UNKNOWN. WHERE POSSIBLE A NOTE HAS BEEN ADDED TO THE PROFILE SHEETS TO POINT OUT THAT THERE MAY BE A UTILITY CROSSING IN THE AREA OF A PROPOSED STRUCTURE. IF A CONFLICT BETWEEN ANY EXISTING UTILITY AND A PROPOSED UTILITY IS FOUND DURING CONSTRUCTION THE CONTRACTOR SHALL COORDINATE ANY REQUIRED ADJUSTMENTS WITH THE PROJECT ENGINEER.



ISSUED FOR:	DATE:	BY:
GI PLANS	10/25/18	JJS
FINAL REVIEW	2/25/19	JJS
FINAL PLANS	4/19/19	JJS

JOB NO.  
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147

1000

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 313.486.2555  
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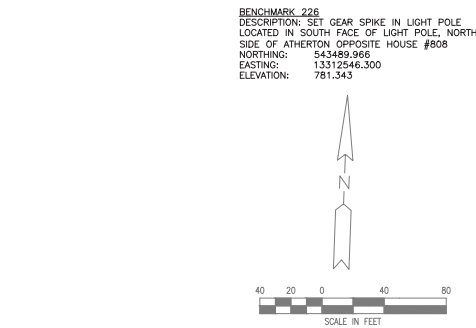




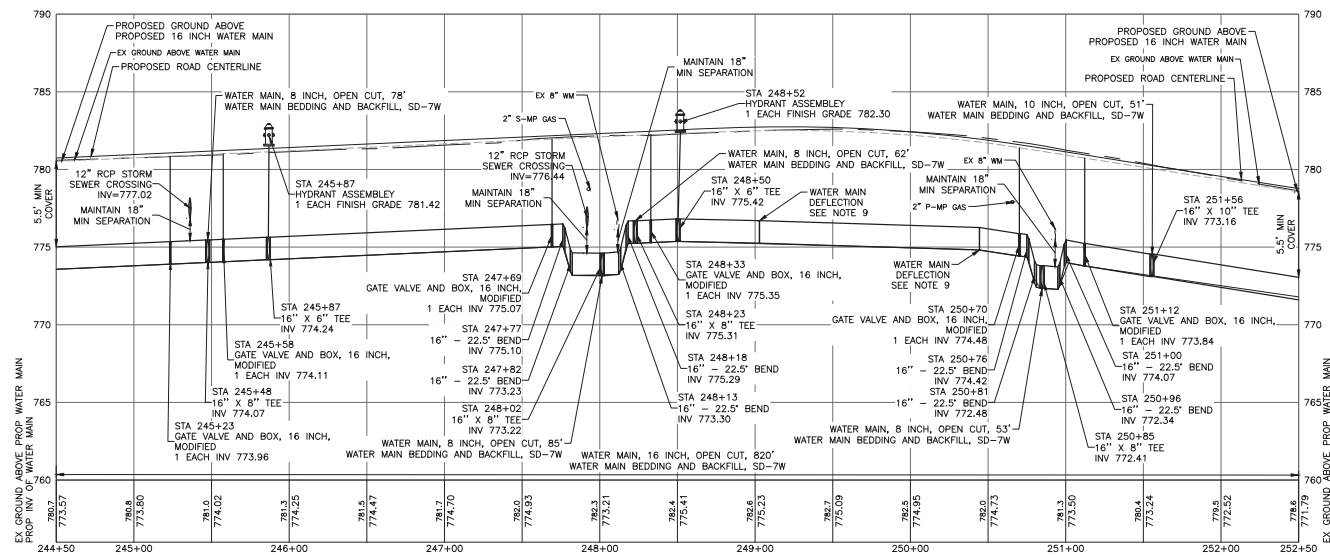








QUANTITIES THIS SHEET			
		JN 201292	
		CAT 0003	
ITEM		QUANTITY	UNIT
Gate Valve and Box, 8 inch, Modified		4	EA
Gate Valve and Box, 10 inch, Modified		1	EA
Gate Valve and Box, 16 inch, Modified		6	EA
Hydrant Assembly, SD-1W		2	EA
Hydrant, Rem, Modified		13	EA
Water Main Bedding and Backfill, SD-7W		449	FT
Water Main, 8 inch, Open Cut		278	FT
Water Main, 10 inch, Open Cut		51	FT
Water Main, 16 inch, Open Cut		820	FT
Water Main, 8 inch, Cut and Plug, Modified		4	EA
Water Main, 10 inch, Cut and Plug, Modified		1	EA
Water Main, Connect New 8 inch to Existing 8 inch		4	EA
Water Main, Connect New 10 inch to Existing 10 inch		1	EA
Water Main, Rem		83	FT
Water Serv, 1 inch		5	EA
Water Serv, Long, 1 inch		1	EA
Water Structure, Abandon		7	EA



- NOTES:
1. WATER MAIN SHALL BE TESTED IN ACCORDANCE WITH AWWA 6060-10, AND CHLORINATED IN ACCORDANCE WITH THE LATEST THE CITY OF FLINT STANDARDS AND THE WATER MAIN PROVISIONS. ALL TESTING SHALL BE OBSERVED AND MONITORED BY FLINT.
2. THE CONTRACTOR SHALL INSTALL, AS A MINIMUM, 2" CORPORATIONS ON THE PRESSURE PIPE FOR PRESSURE TESTING, CHLORINE ADDITION, AND FOR BLOW-OUT PURPOSES. THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF 18" COVER ON ALL CORPORATIONS.
3. AFTER THE PRESSURE TESTING IS COMPLETED, THE CONTRACTOR SHALL PROVIDE A SATISFACTORY TEST AND INSTALL COPPER THREADED PLUGS PRIOR TO FINAL ACCEPTANCE. WATER MAIN SHALL HAVE AT LEAST 10' OF HORIZONTAL SEPARATION AND 18" VERTICAL SEPARATION FROM ANY SANITARY OR STORM SEWER.
4. GATE VALVES AT THE END OF LINES SHALL HAVE ONE PIPE LENGTH ADDED PRIOR TO ENDING WITH A HYDRANT.
5. A MINIMUM OF 0.5- FEET OF COVER SHALL BE ACHIEVED OVER THE WATER MAIN AT ALL TIMES.
6. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING WATER MAIN SIZE AND LOCATIONS PRIOR TO CONNECTION.
7. ALL BACKFILL SHALL BE IN ACCORDANCE WITH THE CITY OF FLINT DETAIL SD-7W.
8. REMOVE EXISTING HYDRANTS AS NOTED IN PLANS. REPLACE CONTRACTOR SHALL CLEARLY DEMARK WITH CHAINS ANY EXISTING HYDRANTS IS OUT OF SERVICE.
9. DEFLECT WATER MAIN AS NOTED ON THE PLANS. DEFLECT WATER MAIN NO MORE THAN 10% OF THE STRUCTURAL RATED DEFLECTION. MAXIMUM DEFLECTION FOR EACH JOINT. IF NEEDED, USE BENDS TO MAKE DEFLECTIONS. ADDITIONAL BENDS ARE INCIDENTAL TO WATER MAIN, \_INCH, OPEN CUT.

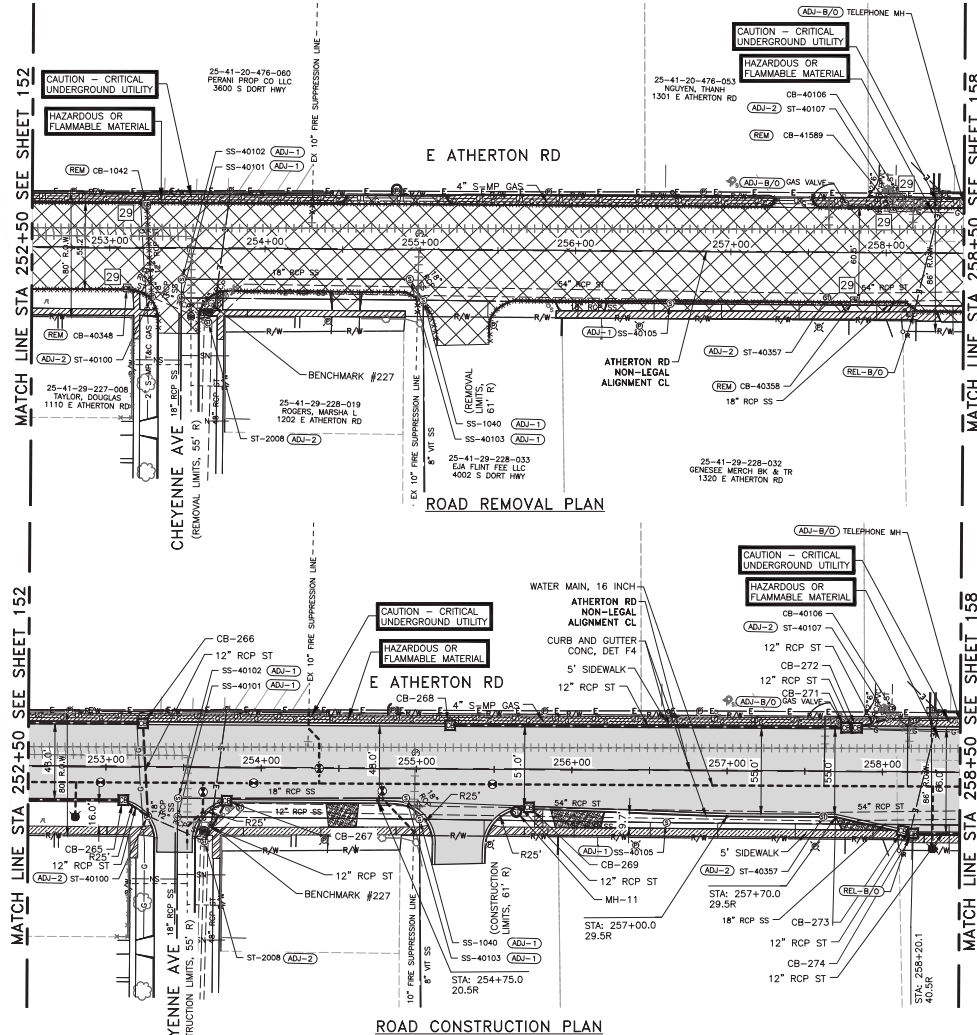
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DRIVEWAY QUANTITIES - THIS SHEET					
STA	SIDE	HOUSE #	PAVT, REM, MODIFIED (SYD)	DRIVEWAY, NONREINF CONC, 6 INCH (SYD)	AGGREGATE BASE, 6 INCH (SYD)
254+52	R	1202	26	33	0
254+84	L		38	0	0
256+05	R	1320	21	0	38
257+40	L	1301	18	0	0
257+90	R	1320	20	0	159

NOTES:

- WHERE STRUCTURE ADJ-1, ADJ-2, ADJ-3, ADJ-5 AND ADJ-6 ARE INDICATED ON THE PLANS, NUMBERS 1, 2, 3, 5 AND 6 CORRESPOND TO CITY OF FLINT CASTING DETAIL NUMBERS CF-1, CF-2, CF-3, CF-5, CF-6 RESPECTIVELY. THE STRUCTURES ARE TO BE ADJUSTED TO FINAL GRADE WITH NEW STRUCTURE FRAMES AND COVERS AS INDICATED ON THE LEGEND SHEET AND THE CITY OF FLINT CASTING DETAILS SHEET. CASTINGS CF-1, CF-2, CF-6 ARE PAID FOR AS PAY ITEM "DR STRUCTURE COVER, TYPE B". CASTINGS CF-3 ARE PAID FOR AS PAY ITEM "DR STRUCTURE COVER, TYPE K". CASTING CF-5 IS PAID FOR AS "DR STRUCTURE COVER, TYPE G". ALL OTHER STRUCTURE COVER TYPES WILL REFER TO MDOT STANDARD PLANS.
- EXISTING STORM STRUCTURES THAT ARE TO BE TAPPED WITH A PROPOSED STORM SEWER ARE INDICATED IN THE STRUCTURE TABLE AS ST-###. THE "ST" INDICATES STRUCTURE TAP AND THE NUMBER (###) INDICATES THE EXISTING STORM STRUCTURE WHICH IS BEING TAPPED.
- WHERE PIPES ARE DESIGNATED FOR REMOVAL, THEY ARE TO BE REMOVED TO AN EXISTING STRUCTURE WHICH WILL REMAIN IN PLACE. THE PIPE OPENING IN THE STRUCTURE SHALL BE REPAIRED/BULK HEADED WITH BRICK AND MORTAR AS APPROVED BY THE ENGINEER.
- MOOT SOIL EROSION CONTROL MEASURE 29 IS INDICATED IN THE TOP PORTION OF THE SHEET FOR EXISTING STORM STRUCTURES WHICH ARE TO BE PROTECTED. SOIL EROSION CONTROL MEASURE 29 SHALL ALSO BE APPLIED TO EACH PROPOSED STORM CATCH BASIN WHICH IS INDICATED IN THE STRUCTURE TABLE AS CB-##.
- WHERE CATCH BASIN ELEVATIONS ARE INDICATED ON THESE PLANS, THE ELEVATION LISTED REPRESENTS THE EDGE OF PAVEMENT ELEVATION.
- FOR ADDITIONAL CURB RADIUS INFORMATION AND DETAILED INTERSECTION GRADING, REFER TO THE DETAILED INTERSECTION GRADING SHEETS.

JOB NO. JN201292



BENCHMARK 227  
DESCRIPTION: FOUND RAILROAD SPIKE IN LIGHT POLE LOCATED IN SOUTH FACE OF LIGHT POLE IN THE SOUTHEAST QUADRANT OF CHEYENNE AND ATERHTON RD.  
NORTHING: 543446.726  
EASTING: 13313526.39  
ELEVATION: 776.956



MAINLINE QUANTITIES - THIS SHEET		
ITEM	QUANTITY	UNIT
Dr Structure, Rem	4	EA
Sewer, Rem, Less Than 24 inch	99	FT
Sidewalk, Rem	600	SYD
Pavt, Rem, Modified	4251	SYD
Embankment, Clip	67	CYD
Excavation, Earth	895	CYD
Aggregate Base, 6 inch	639	SYD
Aggregate Base, 12 inch	1140	SYD
Sewer, CI E, 12 inch, Tr Det B	40	FT
Sewer, CI A, 12 inch, Tr Det B	452	FT
Sewer Bulkhead, 12 inch	2	EA
Dr Structure Cover, Adj, Case 1	9	EA
Dr Structure Cover, Type B	10	EA
Dr Structure Cover, Type K	9	EA
Dr Structure, 24 inch dia	2	EA
Dr Structure, 48 inch dia	7	EA
Dr Structure, 84 inch dia	1	EA
Dr Structure, Adj, Add Depth	1	FT
Dr Structure, Tap, 12 inch	4	EA
Underdrain, Subgrade, 6 inch	1200	FT
Hand Patching	1	TON
Hma, 3E1	632	TON
Hma, 4E1	421	TON
Hma, 5E1	316	TON
Hma Approach	104	TON
Driveway, Nonreinf Conc, 6 inch	33	SYD
Driveway, Nonreinf Conc, 9 inch	196	SYD
Curb And Gutter, Conc, Det F4	1230	FT
Detectable Warning Surface	39	FT
Curb Ramp Opening, Conc	58	FT
Sidewalk Ramp, Conc, 6 inch	2005	SFT
Sidewalk, Conc, 4 inch	4000	SFT
Turf Establishment, Performance	537	SYD

PROPOSED DRAINAGE STRUCTURES									
STR NO	STATION	OFFSET	SIZE	RIM	COVER TYPE	PIPE DIRECTION, SIZE, AND INVERT	DISTANCE TO DOWN STREAM STR		
CB-265	253+11.34	21.3' R	48"	777.38	K	SE 12" 772.40 W 12" 772.40	18.83'	ST-40100	
CB-266	253+23.66	28.2' L	48"	777.05	K	S 12" 772.50 W 12" 772.50	59.72'	ST-40100	
ST-40100	253+27.22	31.4' R				SE 12" 771.67 N 12" 771.67 NW 12" 772.00	39.79'	ST-2008	
ST-2008	253+63.64	47.4' R				NW 12" 771.22 NE 12" 772.00 SE 48" 765.02 S 48" 765.02	31.65'	EXBEND	101.73'
CB-267	253+77.85	21.3' R	48"	776.28	K	SW 12" 772.20	29.74'	ST-2008	
CB-268	255+21.51	28.3' L	48"	773.94	K	E 12" 769.33	254.91'	CB-271	
MH-11	255+64.36	27.2' R	84"	773.34	B	W 54" 764.43 E 54" 764.43 E 12" 770.20	144.04'		
CB-269	255+72.54	24.3' R	24"	773.21	K	W 12" 770.25	8.69'	MH-11	
CB-271	257+76.42	28.3' L	48"	771.21	K	W 12" 768.06 E 12" 768.06	7.03'	CB-272	
CB-272	257+83.44	28.3' L	48"	771.22	K	W 12" 768.00 E 12" 768.00	21.32'	ST-40107	
ST-40107	258+03.90	34.3' L				W 12" 767.87 E 12" 767.48	130.64'	ST-41597	
CB-273	258+13.15	38.0' R	48"	771.07	K	E 12" 766.10			
CB-274	258+19.98	39.5' R	24"	771.05	K	W 12" 766.15 E 12" 766.10	7.00'	CB-273 CB-275	

CITY OF FLINT  
1101 SOUTH SAGINAW STREET  
FLINT, MI 48802  
ATHERTON ROAD  
ATHERTON PLAN AND REMOVAL SHEET 21

ISSUED FOR: DATE: BY:  
21 PLANS 10/25/18 JLS  
FINAL REVIEW 2/25/19 JLS  
FINAL PLANS 4/19/19 JLS

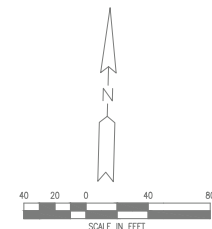
JOB NO.  
C0F1065.01F

SHEET

155







NOTES:

1. WATER MAIN SHALL BE TESTED IN ACCORDANCE WITH AWWA C600-10, AND CHLORINATED IN ACCORDANCE WITH THE LATEST CITY OF FLINT STANDARDS AND THE WATER MAIN SPECIAL PROVISIONS. ALL TESTING SHALL BE OBSERVED AND MONITORED BY FLINT.
2. THE CONTRACTOR SHALL INSTALL, AS A MINIMUM, 2" CORPORATIONS ON THE PRESSURE PIPE FOR PRESSURE TESTING, CHLORINE ADDITION, AND FOR BLOW-OUT PURPOSES. THE CONTRACTOR SHALL ALSO INSTALL 2" CORPORATIONS ON THE CONDUIT AND CORPUS ON A SATISFACTORY TEST AND INSTALL COPPER THREADED PLUGS PRIOR TO FINAL ACCEPTANCE.
3. WATER MAIN SHALL HAVE AT LEAST 10' OF HORIZONTAL SEPARATION AND 18" VERTICAL SEPARATION FROM ANY SALES OR FORM OF UTILITIES.
4. GATE VALVES AT THE END OF LINES SHALL HAVE ONE PIPE LENGTH ADDED PRIOR TO ENDING WITH A HYDRANT.
5. A MINIMUM OF 5.5- FEET OF COVER SHALL BE ACHIEVED OVER THE WATER MAIN AT ALL TIMES.
6. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING WATER MAIN SIZE AND LOCATION SPRIOR TO CONSTRUCTION.
7. ALL BACKFILL SHALL BE IN ACCORDANCE WITH THE CITY OF FLINT SIZE D18-SW-7W.
8. REMOVE EXISTING HYDRANTS AS INDICATED ON THE PLANS. CONTRACTOR SHALL CLEARLY MARK ANY HYDRANTS NOT TO BE REMOVED OR TO BE RELOCATED.
9. DEFLECT WATER MAIN AS NOTED ON THE PLANS. DEFLECT WATER MAIN NO MORE THAN ONE-HALF OF THE MANUFACTURER'S RECOMMENDED MAXIMUM DEFLECTION FOR EACH JOINT. IF NEEDED, USE BENDS TO MAKE DEFLECTIONS. ADDITIONAL BENDS ARE INCIDENTAL TO THE WATER MAIN.



Know what's **below**.  
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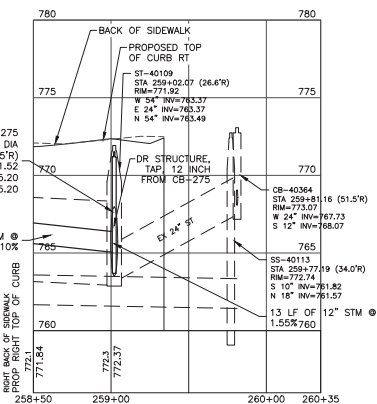
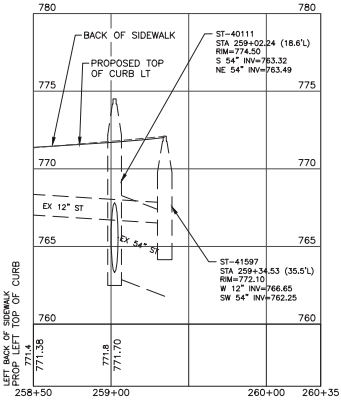
PROJECT MANAGER: Jeremy Schrot  
 \PW\WORK2\DOB52518\CRP-PLTS-WATERMAIN-21.DWG - AThERTON WM PLAN AND PROF - 21 - PLOTTED 4/18/2019 8:28 PM BY RUGGLES, TIMOTHY



**PROJECT MANAGER:** Jeremy Schrot



JOB NO. JN201292



NOTES:

1. PORTIONS OF THE PROPOSED WATER MAIN HAS BEEN SHOWN IN THE PLEVIEW VIEW WHERE CROSSING THE PROPOSED STORM SEWER, THE PROPOSED HYDRANT LEADS AND WATER MAIN CROSSINGS OF PROPOSED STORM SEWERS AT EACH SIDE STREET CONNECTION TO THE EXISTING WATER MAINS. THE CONTRACTOR SHALL PROVIDE THE REQUIRED DETAIL ON WATER MAIN CONSTRUCTION SHEETS FOR ADDITIONAL INFORMATION ON WATER MAIN CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING UTILITIES. THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF 18" VERTICAL CLEARANCE AT EACH CROSSING OF THE PROPOSED STORM SEWER. IF THIS REQUIRES THE ADJUSTMENT OF PROPOSED WATER MAIN OR STORM SEWER DEPTHS OR LOCATIONS, THE CONTRACTOR SHALL PROVIDE THE REQUIRED DETAIL. THE CONTRACTOR SHALL COORDINATE THESE ADJUSTMENTS WITH THE PROJECT ENGINEER.

2. THE EXACT LOCATION AND DEPTH OF EXISTING WATER MAINS ARE UNKNOWN AND THEIR CROSSING OF THE PROPOSED STORM SEWERS HAVE NOT BEEN SHOWN ON THESE PROFILES

3. EXISTING PRIVATE UTILITY LOCATIONS AND DEPTHS ARE UNKNOWN. WHERE POSSIBLE A NOTE HAS BEEN ADDED TO THE PROFILE SHEETS TO POINT OUT THAT THERE MAY BE A UTILITY CROSSING IN THE AREA OF A PROPOSED STRUCTURE. IF A CONFLICT BETWEEN ANY EXISTING UTILITY AND A PROPOSED UTILITY IS FOUND DURING CONSTRUCTION THE CONTRACTOR SHALL COORDINATE ANY REQUIRED ADJUSTMENTS WITH THE PROJECT ENGINEER.



555 S. Congress Street, Suite 201  
 Ft. Worth, TX 76102  
 Phone: 817.335.4444  
[www.wadefirm.com](http://www.wadefirm.com)

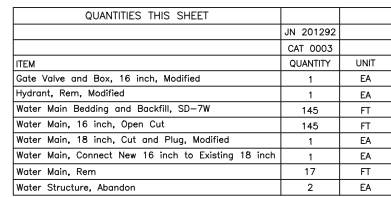
1101 CITY OF FLINT  
SOUTH SAGINAW STREET  
FLINT, MI 48502  
ATHERTON ROAD  
ATHERTON PROFILE 22

ISSUED FOR:	DATE:	BY:
GI PLANS	10/25/18	JJS
FINAL REVIEW	2/25/19	JJS
FINAL PLANS	4/19/19	JJS

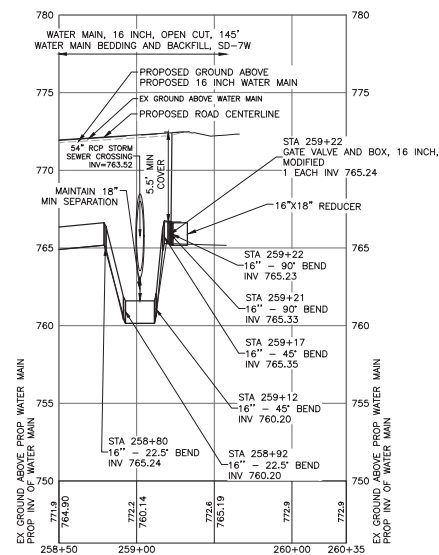
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159

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- NOTES:
1. WATER MAIN SHALL BE TESTED IN ACCORDANCE WITH ANWA C600-10, AND CHLORINATED IN ACCORDANCE WITH THE LATEST EDITION OF FLINT STANDARDS AND THE WATER MAIN SPECIAL PROVISIONS, ALL TESTING SHALL BE OBSERVED AND MONITORED BY FLINT. THE CONTRACTOR SHALL INSTALL, AS A MINIMUM, 2" CORPORATIONS ON THE PRESSURE SIDE OF THE PRESSURE TESTING, CORING ADDITION, AND FOR SIZE-OUT PURPOSES. THE CONTRACTOR SHALL REMOVE THE CORPORATIONS AND COPPER LINES UPON A SATISFACTORY TEST AND INSTALL COPPER THREADED PLUGS PRIOR TO FINAL ACCEPTANCE.
  2. WATER MAIN SHALL HAVE AT LEAST 10' OF HORIZONTAL SEPARATION AND 18" VERTICAL SEPARATION FROM ANY SANITARY OR STORM DRAIN.
  3. GATE VALVES AT THE END OF LINES SHALL HAVE ONE PIPE LENGTH ADDED PRIOR TO ENDING WITH A HYDRANT.
  4. A MINIMUM OF 6'-0" FEET OF COVER SHALL BE ACHIEVED OVER THE WATER MAIN AT ALL TIMES.
  5. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING WATER MAIN SIZE AND LOCATIONS PRIOR TO CONNECTION.
  6. ALL BACKFILL SHALL BE IN ACCORDANCE WITH THE CITY OF FLINT DETAIL SD-7W.
  7. REMOVE EXISTING HYDRANTS AS INDICATED ON THE PLANS. CONTRACTOR SHALL CLEARLY MARK ANYWHERE WHERE EXISTING HYDRANTS ARE REMOVED.
  8. DEFLECT WATER MAIN AS NOTED ON THE PLANS. DEFLECT WATER MAIN NO MORE THAN ONE-HALF OF THE MANUFACTURER'S RECOMMENDED MAXIMUM DEFLECTION FOR EACH SIZE OF PIPE NEEDED. DEFLECTS TO MAKE DEFLECTIONS, ADDITIONAL BENDS ARE INCIDENTAL TO WATER MAIN, INCH, OPEN CUT.

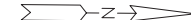
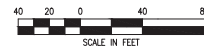
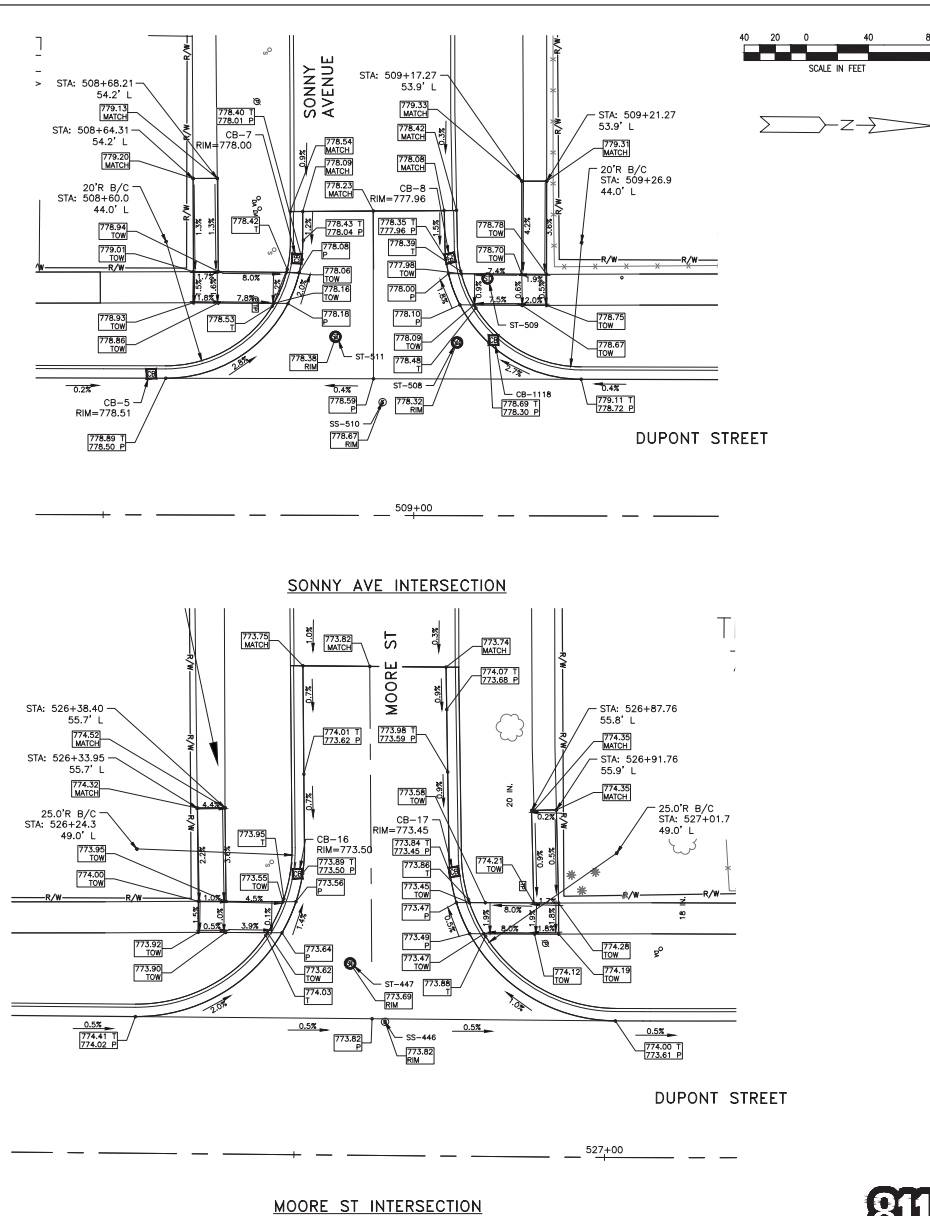
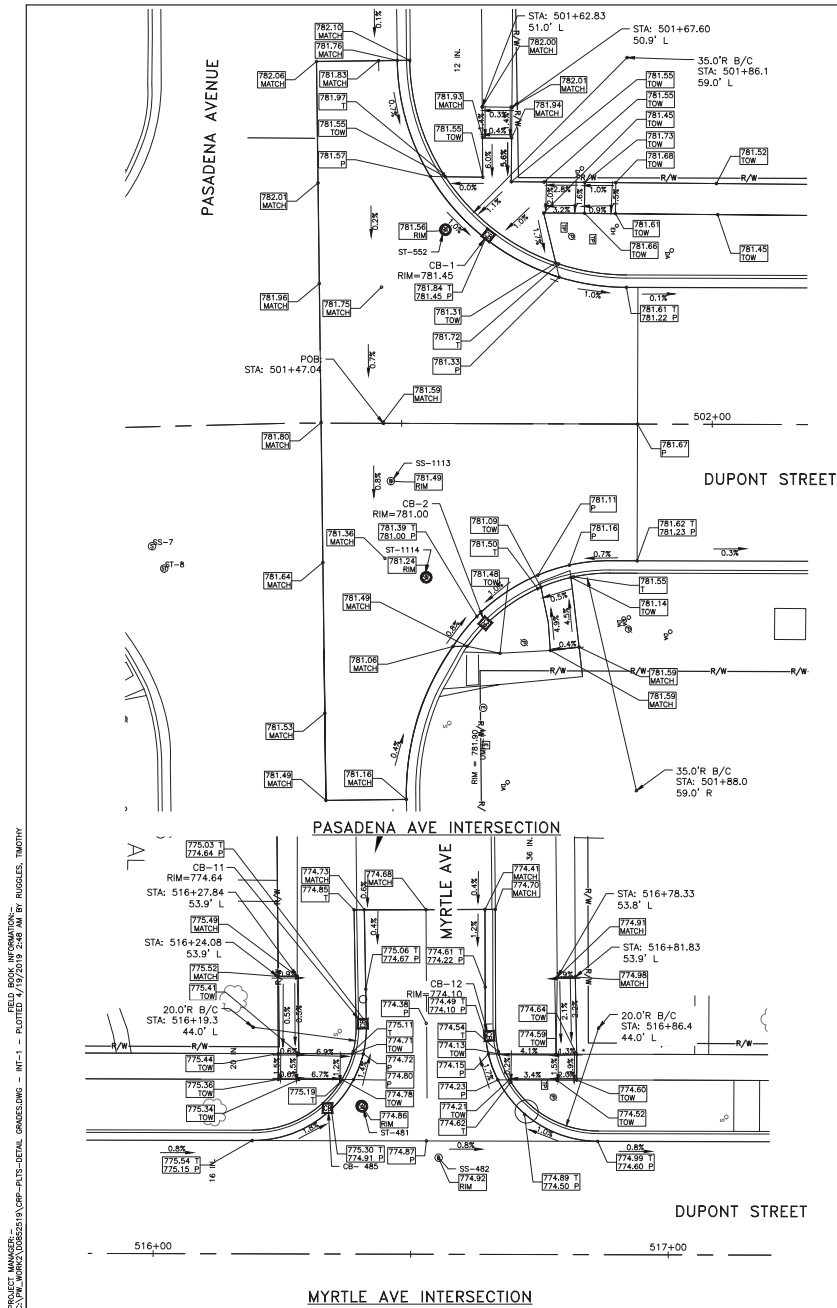


WATER MAIN PROFILE

JOB NO. JN201292

[illegible]





REV#	DATE	DESCRIPTION	BY



1101 SOUTH SAGINAW STREET  
FLINT, MI 48502  
DUPONT STREET - NORTH  
PASADENA AVE, SONNY AVE, MYRTLE AVE & MOORE ST

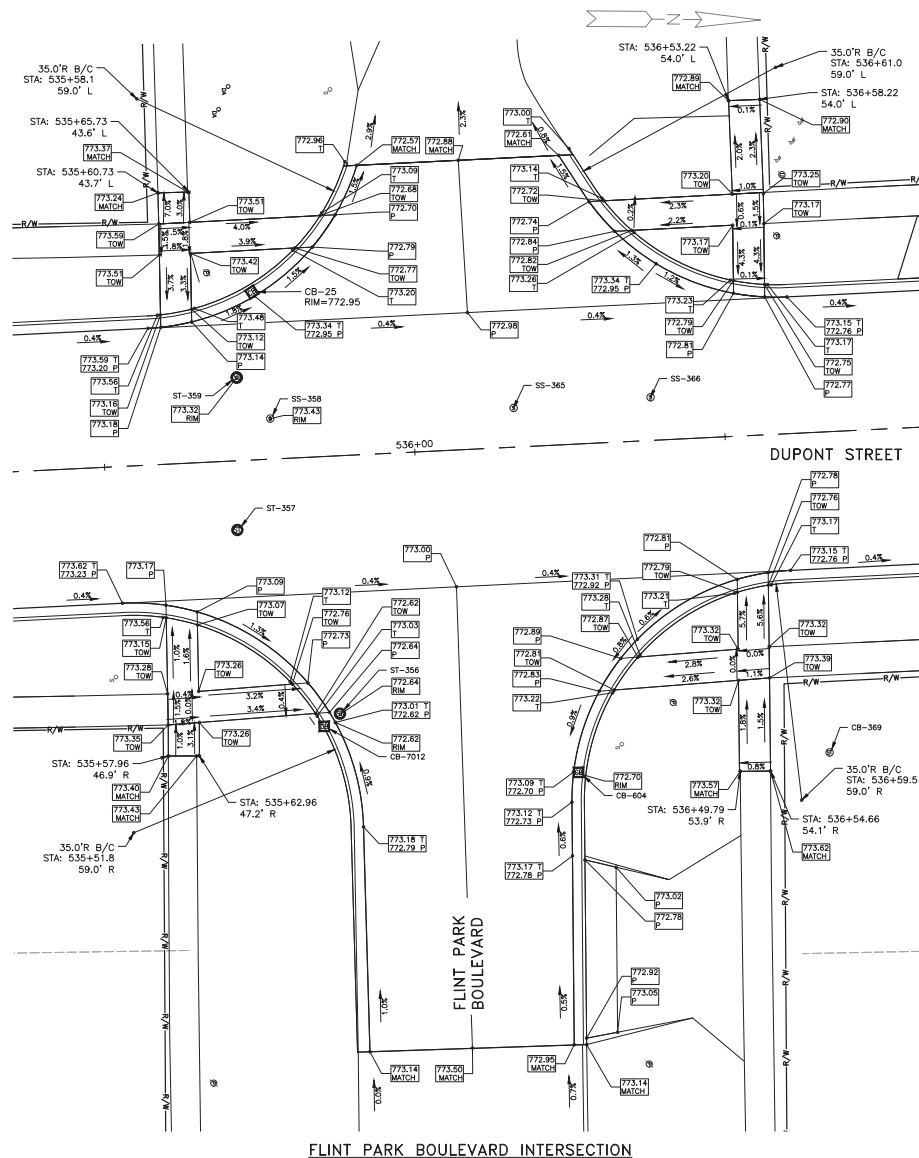


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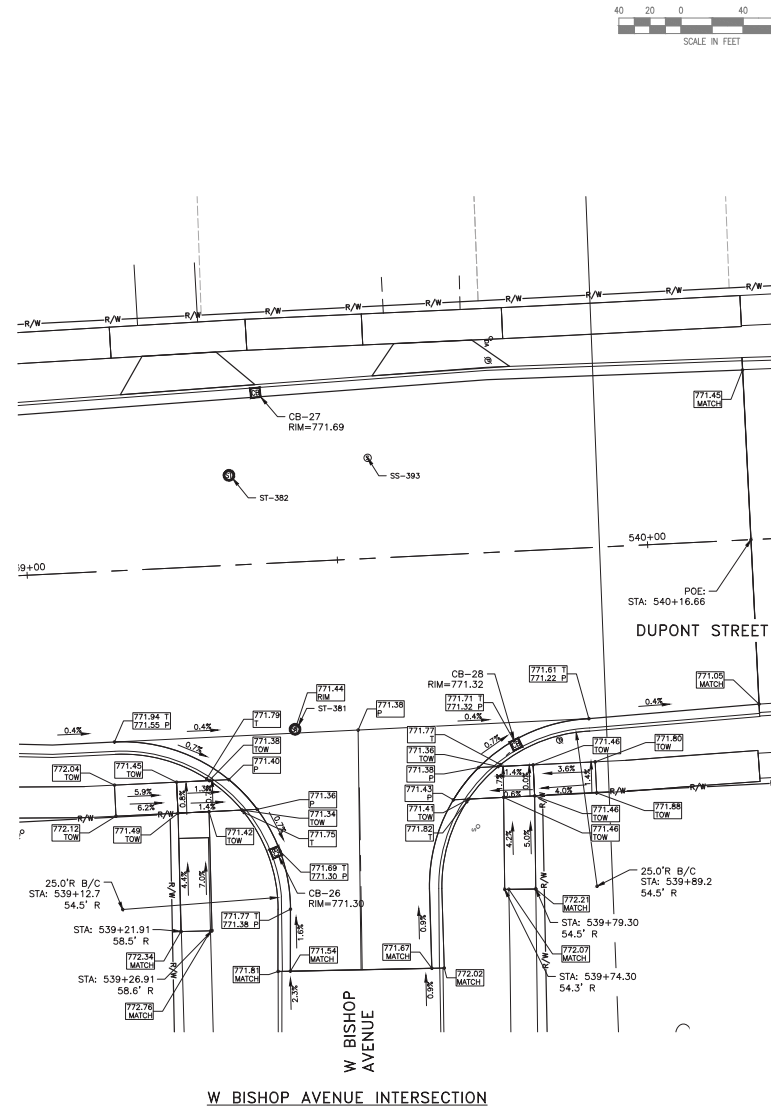
ISSUED FOR: DATE: BY:	GI PLANS: 10/25/18 JLS
FINAL REVIEW: 2/25/19 JLS	FINAL PLANS: 4/19/19 JLS
JOB NO. COF1065.01F	SHEET 161

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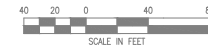




FLINT PARK BOULEVARD INTERSECTION



W BISHOP AVENUE INTERSECTION



REV#	DATE	DESCRIPTION	BY

100 S. Saginaw Street, Suite 201  
Flint, MI 48502  
www.wade-trim.com

**WADE TRIM**

CITY OF FLINT  
1101 SOUTH SAGINAW STREET  
FLINT, MI 48502  
DUPONT STREET - NORTH  
FLINT PARK BOULEVARD & W BISHOP AVE

ISSUED FOR: DATE: BY:  
G: PLANS 10/25/18 JUS  
FINAL REVIEW 2/25/19 JUS  
FINAL PLANS 4/19/19 JUS

JOB NO.  
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163







**WADE  
TRIM**

555 S. Saginaw Street, Suite 201  
Trent, MI 48602  
810.235.2555  
www.walshdm.com

CITY OF FLINT  
1101 SOUTH SAGINAW STREET  
FLINT, MI 48502  
DUPONT STREET - SOUTH  
DETAILED INTERSECTION GRADES  
N CHEVROLET AVENUE

ISSUED FOR:	DATE:	BY:
GI PLANS	10/25/18	JJS
FINAL REVIEW	2/25/19	JJS
FINAL PLANS	4/19/19	JJS

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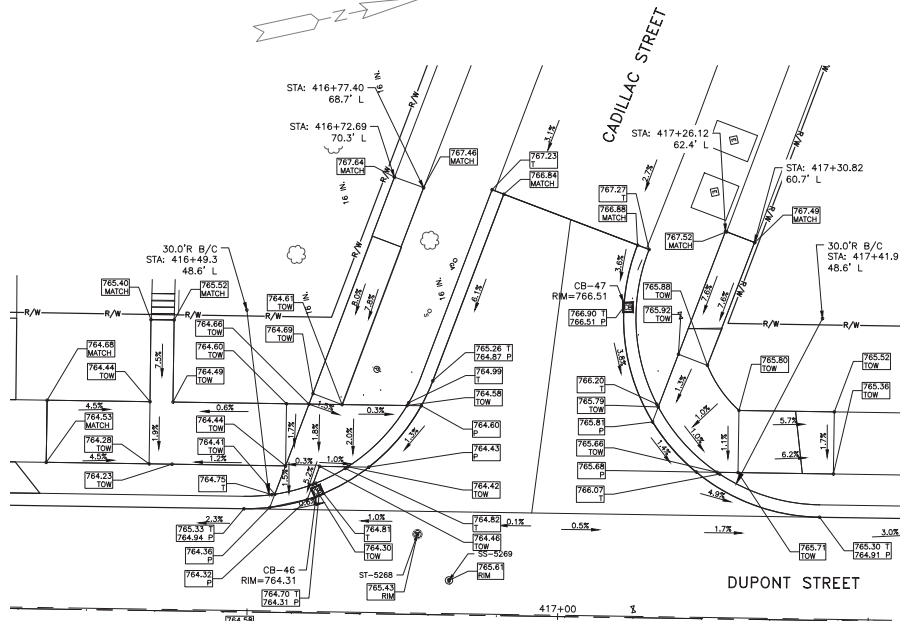
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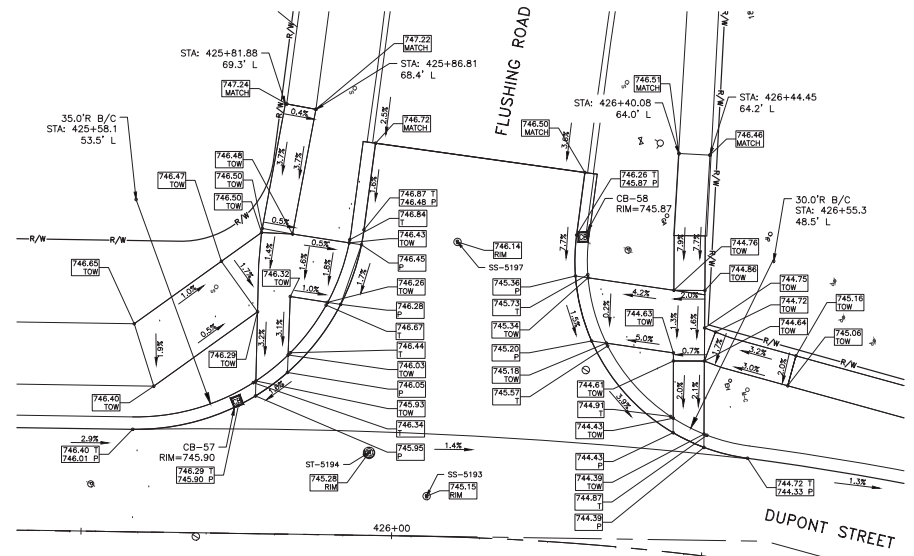


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PROJECT MANAGER: Jeremy Schrod  
C:\PW\_WORK2\DO8852527\CRP-PLTS-DETAIL GRADES.DWG - INT-2 - PLOTTED 4/19/2019 2:49 AM BY RUGGLES, TIMOTHY



CADILLAC ST INTERSECTION



FLUSHING ROAD INTERSECTION

ISSUED FOR: DATE: BY:  
 811  
 COF1065.01F  
 SHEET

166

ISSUED FOR: DATE: BY:  
 811  
 COF1065.01F  
 SHEET

166

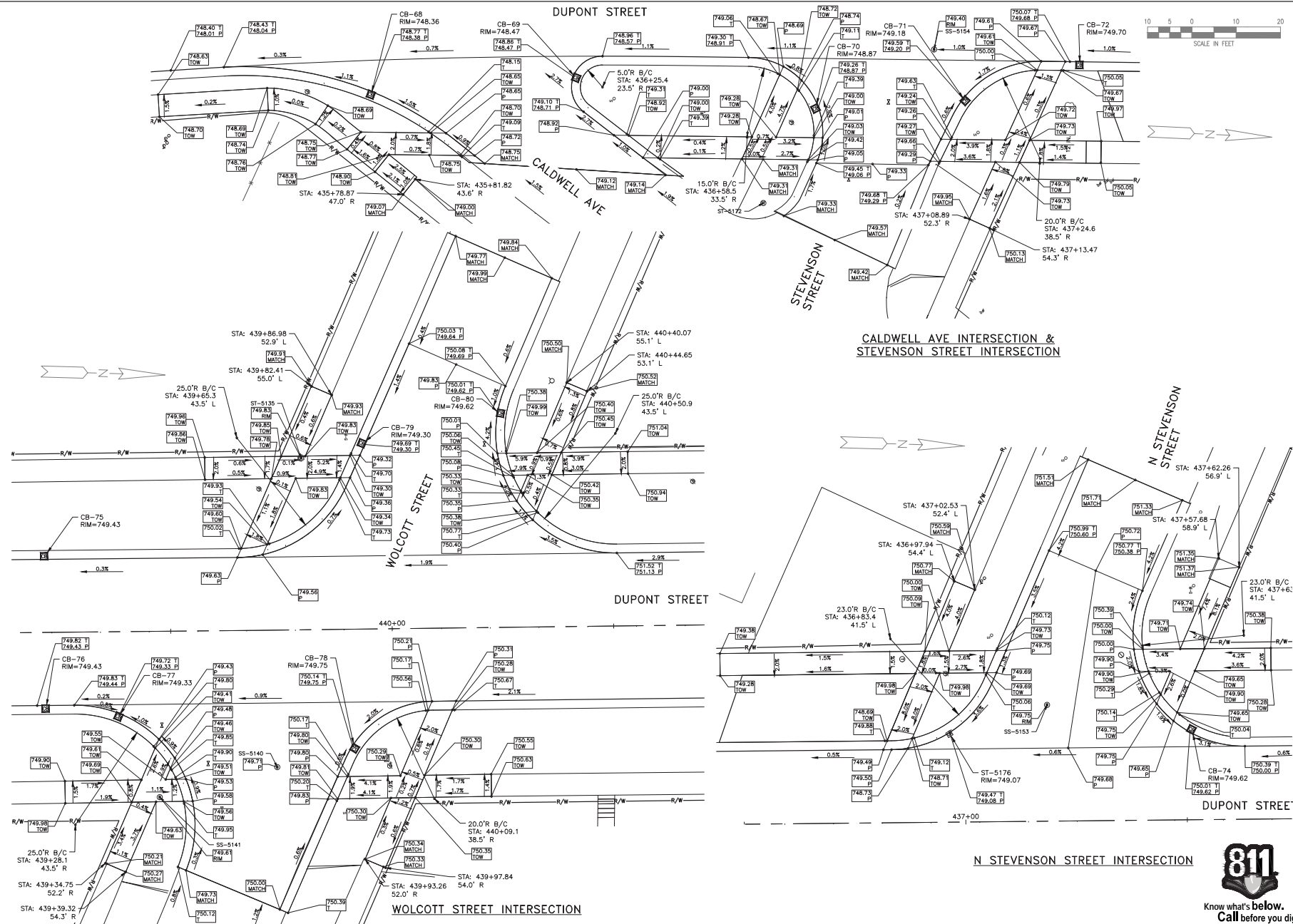
ISSUED FOR: DATE: BY:  
 811  
 COF1065.01F  
 SHEET

166



CITY OF FLINT  
 1101 SOUTH SAGINAW STREET  
 FLINT, MI 48502  
 DUPONT STREET - SOUTH  
 DETAILED INTERSECTION GRADES  
 CADILLAC ST & FLUSHING RD

NO.	DATE	DESCRIPTION	BY



REV	DATE	DESCRIPTION	BY

500 S. Saginaw Street, Suite 801  
 Flint, MI 48802  
 www.wade-trim.com

**WADE TRIM**

**CITY OF FLINT**  
 1101 SOUTH SAGINAW STREET  
 FLINT, MI 48802  
 DUPONT STREET - SOUTH  
 DETAILED INTERSECTION GRADES  
 CALDWELL AVE, STEVENSON ST & WOLCOTT ST

ISSUED FOR:	DATE:	BY:
GP PLANS	10/25/18	BY
FINAL REVIEW	2/25/19	BY
FINAL PLANS	4/19/19	BY

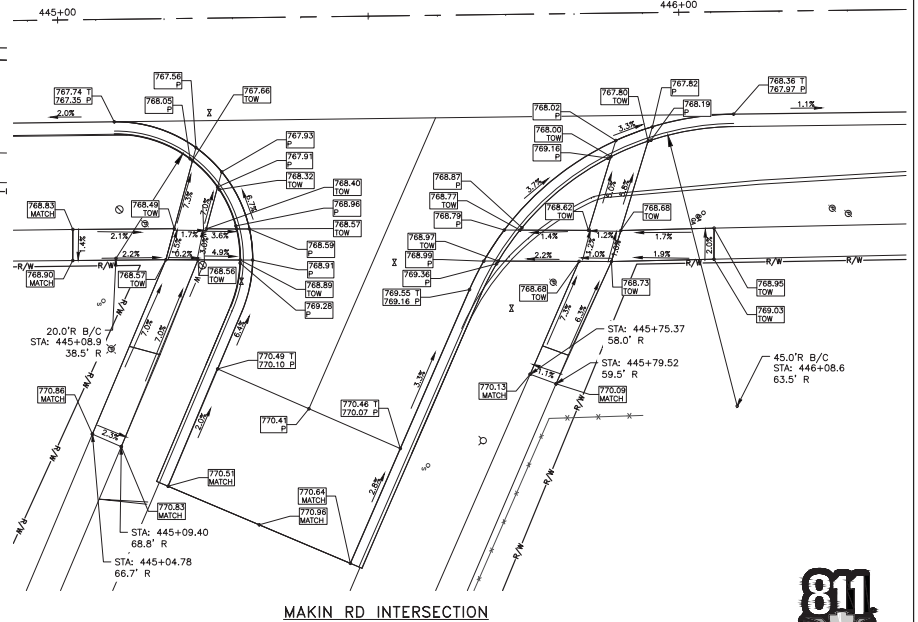
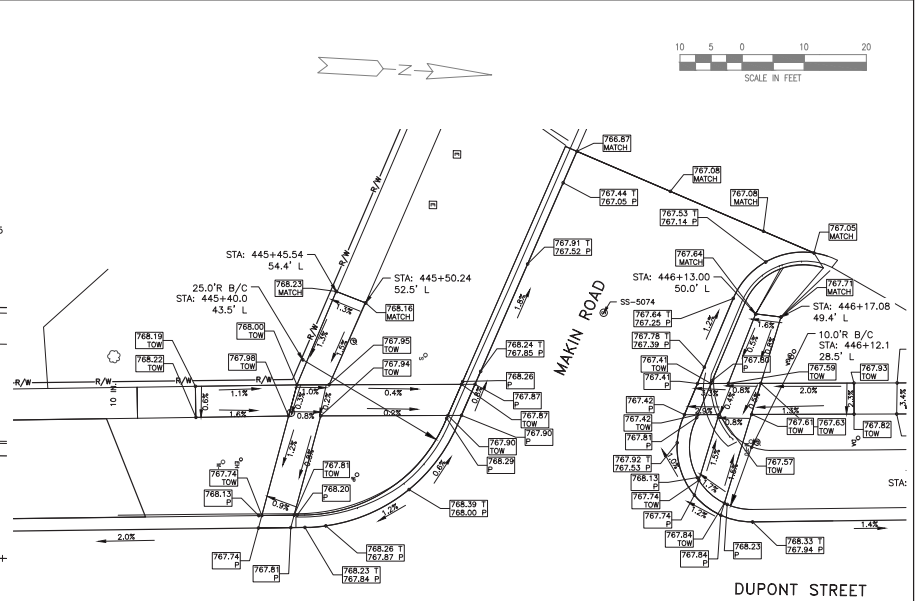
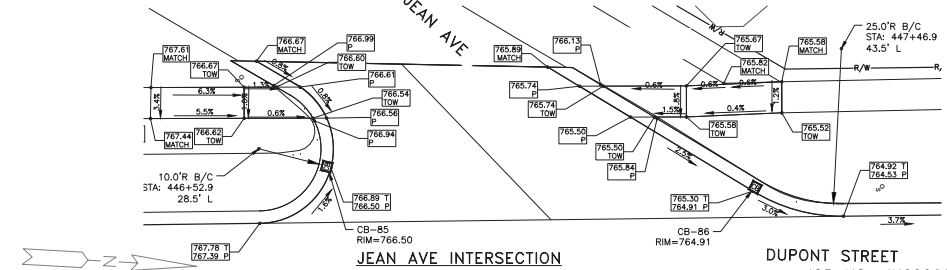
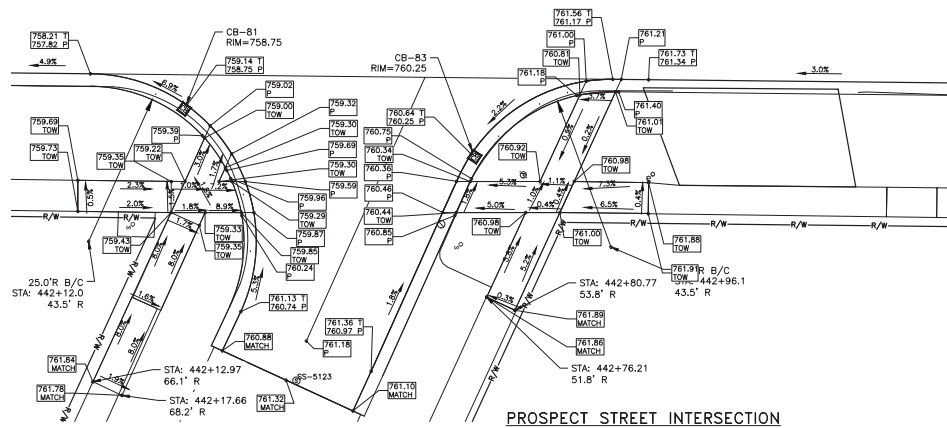
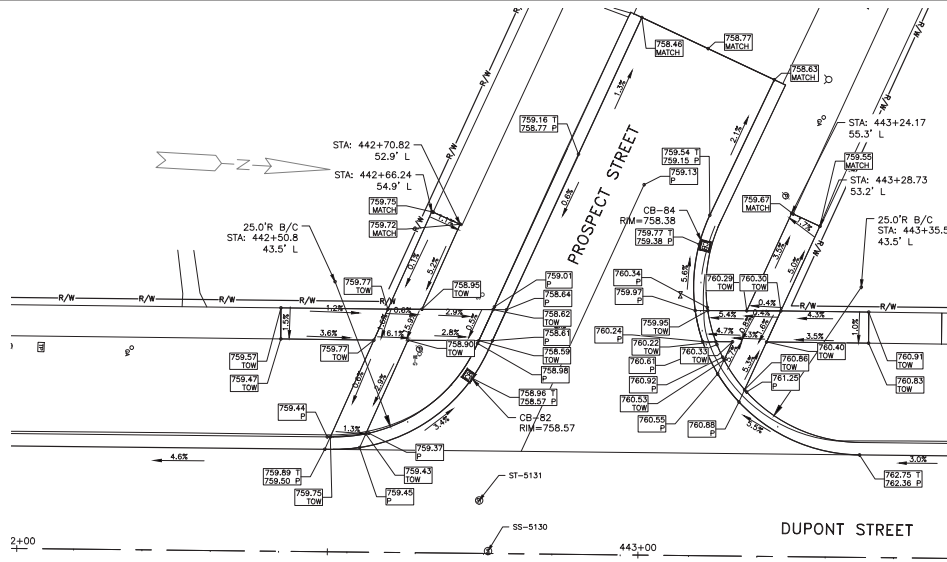
JOB NO: **COF1065.01F**

SHEET

**811**

Know what's below.  
 Call before you dig.

PROJECT MANAGER: Jeremy Schmitt  
 CIVIL ENGINEER: JEFFREY L. SCHMITT, P.E.  
 FIELD BOOK INFORMATION: - INT-5 - PLOTTED 4/19/2019 2:51 PM BY RIGGLES, TIMOTHY

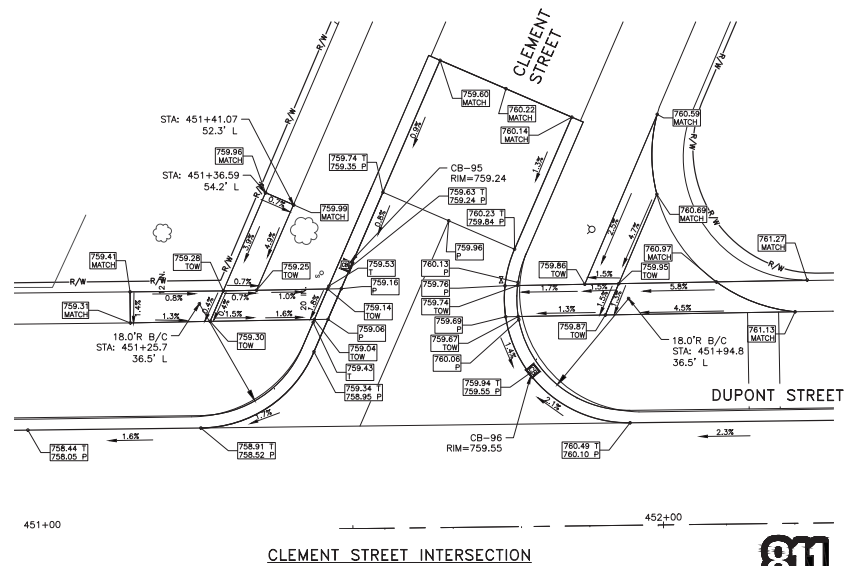
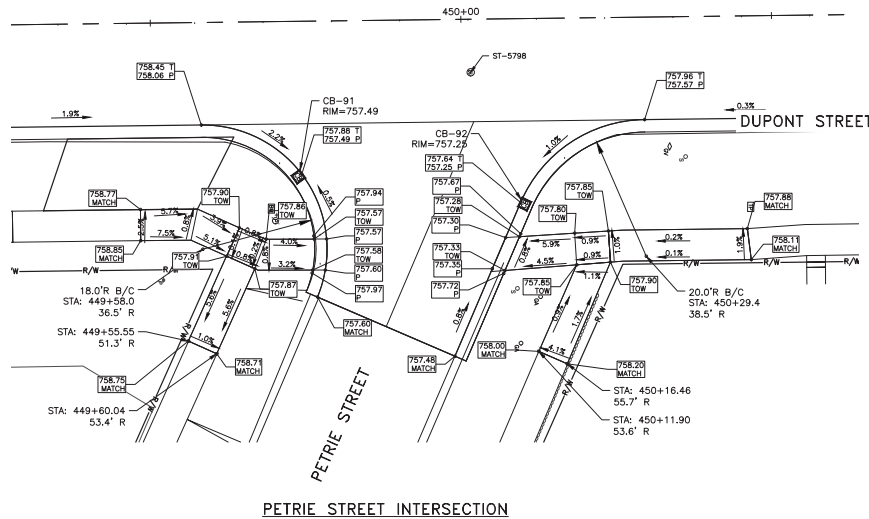
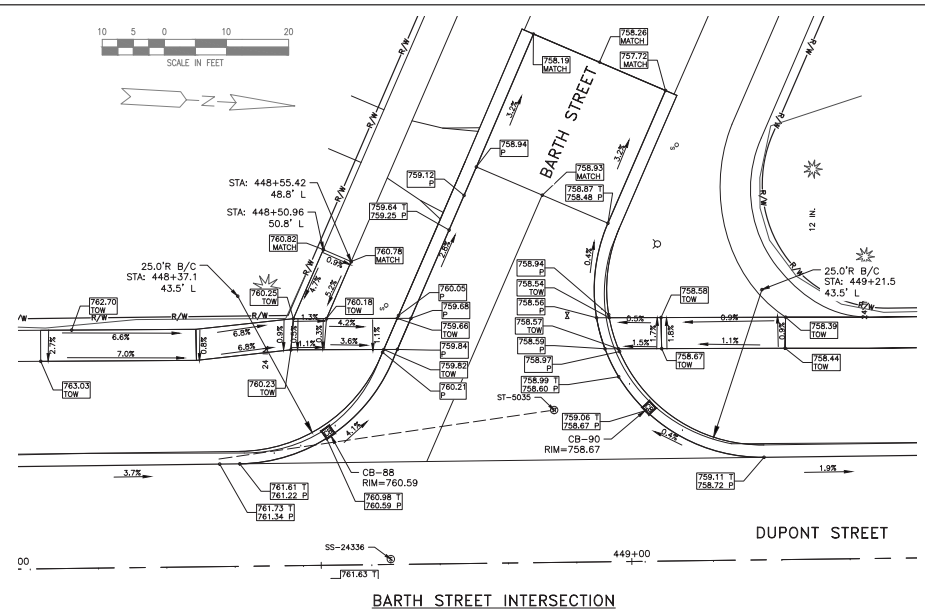
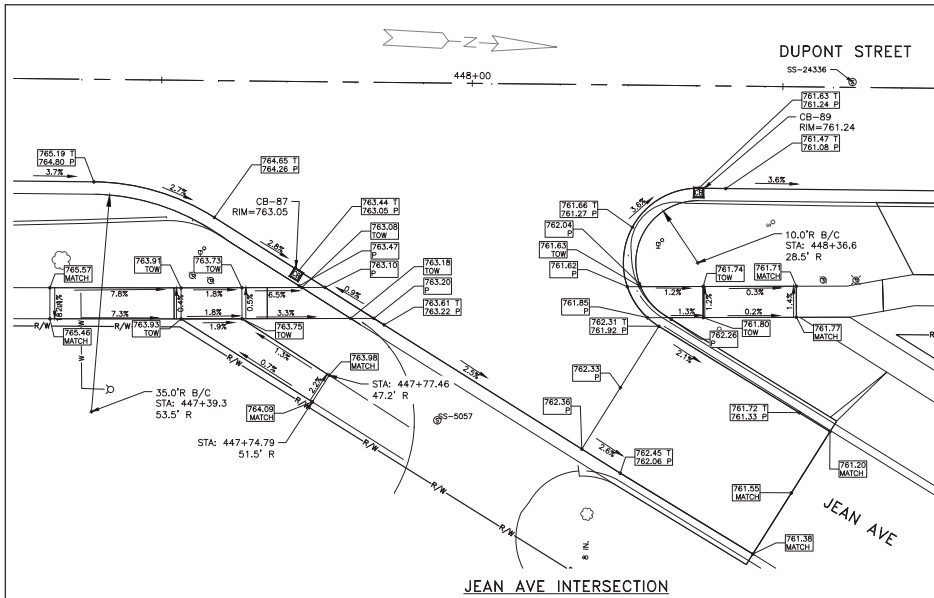


Know what's below.  
 Call before you dig.

CITY OF FLINT 1101 SOUTH SAGINAW STREET FLINT, MI 48902		 500 S. Saginaw Street, Suite 201 Flint, MI 48902 www.wadetrims.com	DATE	BY
DUPONT STREET - SOUTH DETAILED INTERSECTION GRADES PROSPECT ST., MAKIN RD & JEAN AVE			REV#	DESCRIPTION
ISSUED FOR: DATE: 10/23/18 BY: JLS FINAL REVIEW: 2/25/19 JLS FINAL PLANS: 4/19/19 JLS		JOB NO: COF1065.01F SHEET: 168		



PROJECT MANAGER: Jeremy Schmitt  
CITY OF FLINT, MI 48502  
DATE: 10/25/18  
FINAL REVIEW: 2/25/19  
FINAL PLANS: 4/15/19



JOB NO. JN200906



Know what's below.  
Call before you dig.

NO.	DATE	DESCRIPTION	BY

Wade Trim  
1101 SOUTH SAGINAW STREET  
FLINT, MI 48502  
810.240.2002  
www.wadetrim.com

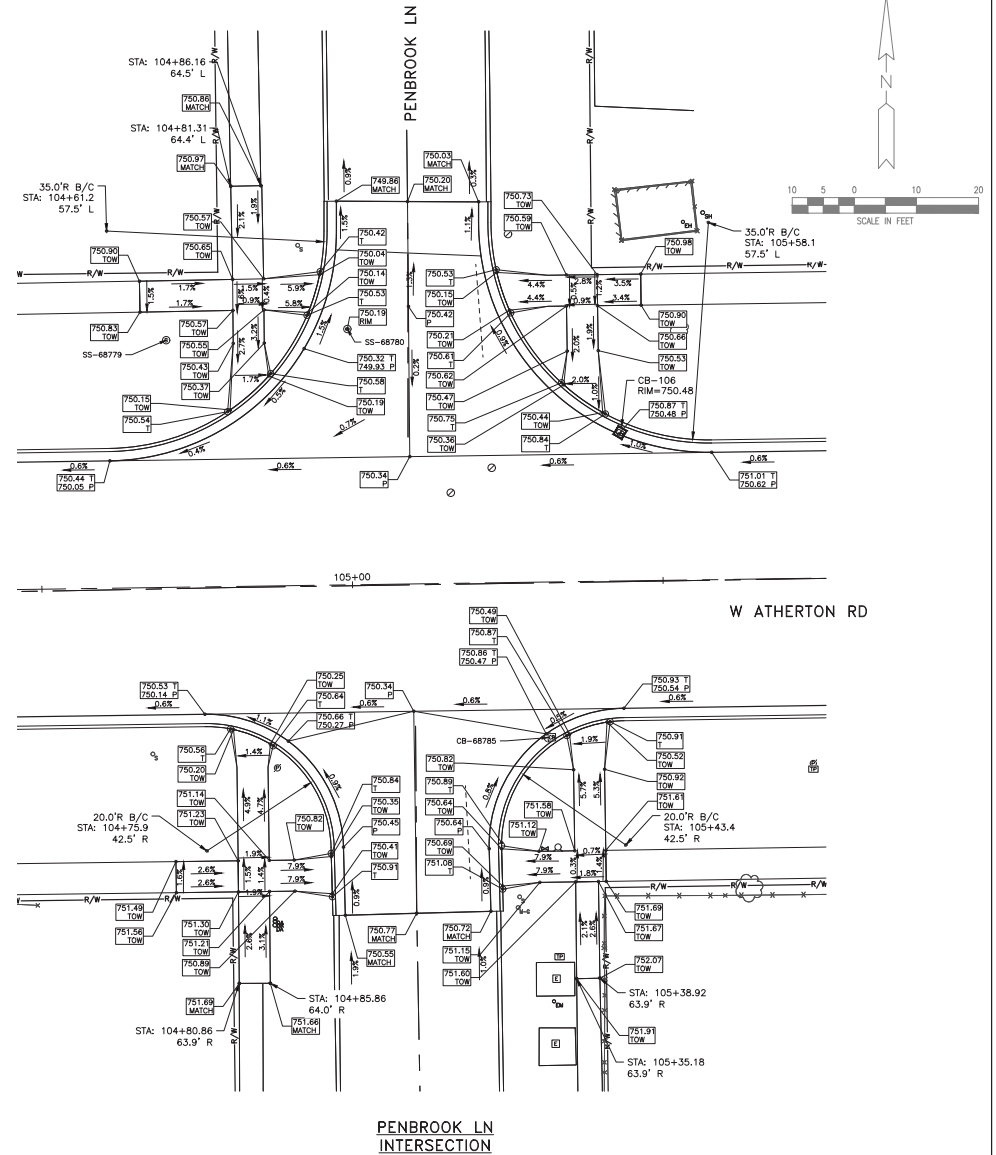
CITY OF FLINT  
1101 SOUTH SAGINAW STREET  
FLINT, MI 48502  
DUPLICATE INTERSECTION GRADES  
JEAN AVE, BARTH ST, PETRIE ST & CLEMENT ST

ISSUED FOR: DATE: 10/25/18  
BY: JMS  
REVISION: 2/25/19  
FINAL REVIEW: 2/25/19  
FINAL PLANS: 4/15/19

JOB NO. COF1065.01F  
SHEET  
169



VAN SLYKE RD

[illegible]



555 S. Saginaw Street, Suite 201  
Flint, MI 48502  
810.236.2555  
www.aiaflint.com



CITY OF FLINT  
1101 SOUTH SAGINAW STREET  
FLINT, MI 48502  
ATHERTON ROAD  
DETAILED INTERSECTION GRADES  
BALFOUR CT AND GREENBROOK LN

ISSUED FOR:	DATE:	BY:
GI PLANS	10/25/18	JJS
FINAL REVIEW	2/25/19	JJS
FINAL PLANS	4/19/19	JJS

JOB NO.  
COF1065.01F

SHEET

172



Know what's below.  
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PROJECT MANAGER: Jeremy Schretz  
FIELD BOOK INFORMATION:--  
INT-3 -- INT-3 -- PLOTTED 4/19/2019 2:56 AM BY RUGGLES, TIMOTHY

[illegible]

555 S. Saginaw Street, Suite 201  
Flint, MI 48502  
810.236.2555  
www.aiaflint.com



**WADE  
TRIM**

CITY OF FLINT  
1101 SOUTH SAGINAW STREET  
FLINT, MI 48502  
ATHERTON ROAD  
DETAILED INTERSECTION GRADES  
BRIARWOOD DR AND HAMMERGEG RD

ISSUED FOR:	DATE:	BY:
GI PLANS	10/25/18	JJS
FINAL REVIEW	2/25/19	JJS
FINAL PLANS	4/19/19	JJS

JOB NO.  
COF1065.01F

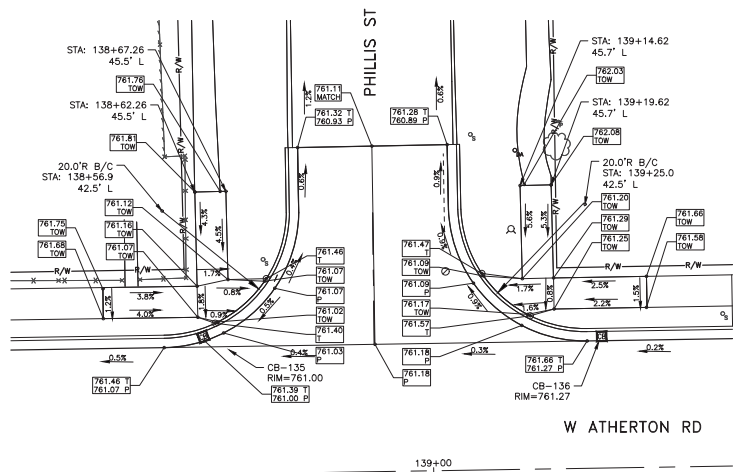
173

Wanda Telen Group, Inc.

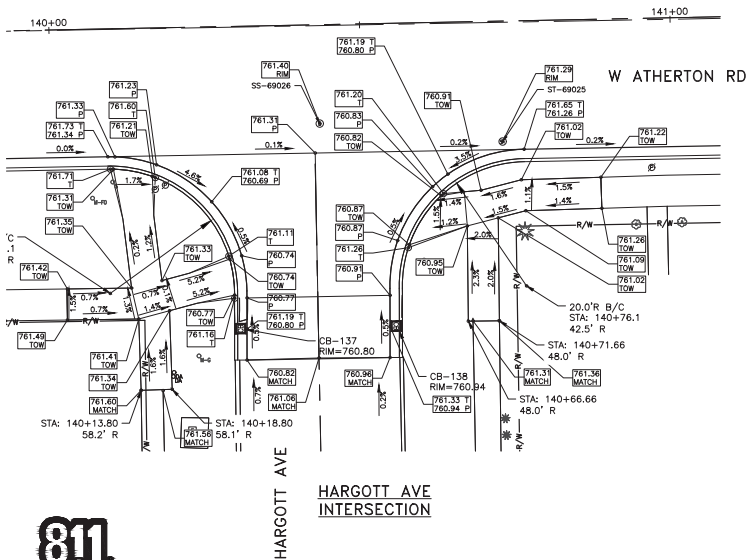
PROJECT MANAGER: Jeremy Schmitt  
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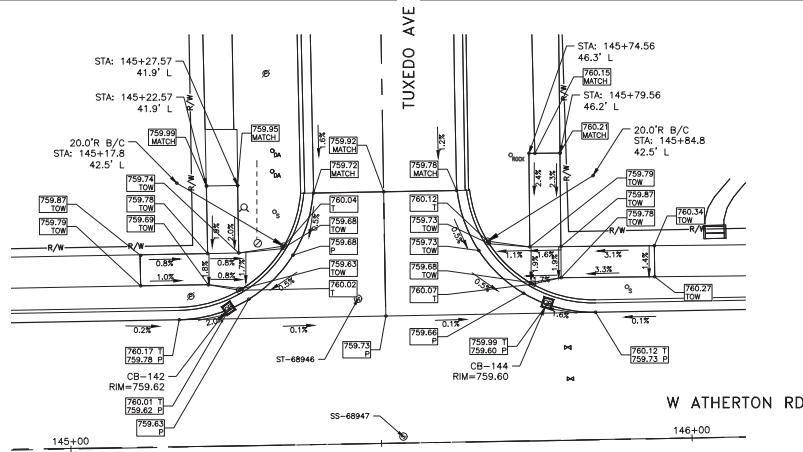
Know what's below.  
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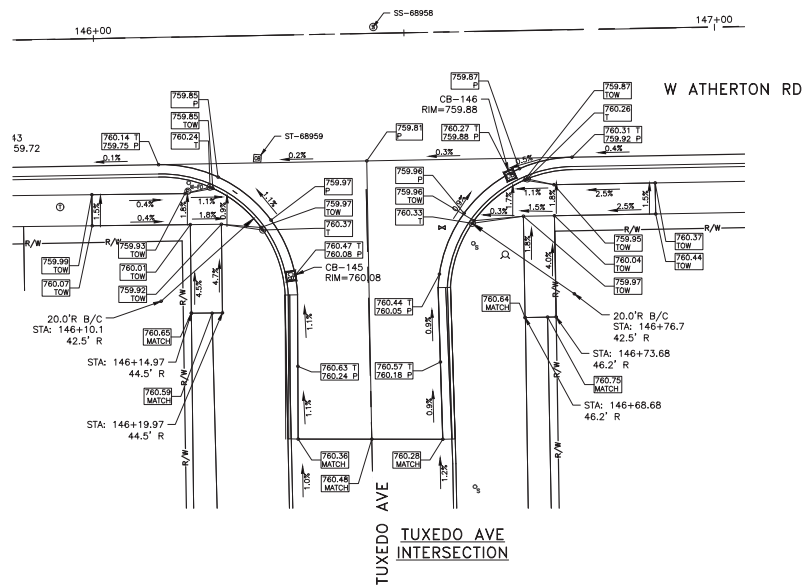
PHILLIS ST  
INTERSECTION



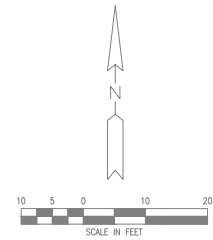
HARGOTT AVE  
INTERSECTION



TUXEDO AVE  
INTERSECTION



TUXEDO AVE  
INTERSECTION



REV	DATE	DESCRIPTION	BY

500 S. Saginaw Street, Suite 201  
Flint, MI 48602  
www.wade-trim.com



CITY OF FLINT  
1101 SOUTH SAGINAW STREET  
FLINT, MI 48602  
ATHERTON ROAD  
DETAILED INTERSECTION GRADES  
PHILLIS ST, HARGOTT AVE AND TUXEDO AVE

ISSUED FOR: DATE: 8/1  
SI PLANS: 10/23/18  
FINAL REVIEW: 2/25/19 JLS  
FINAL PLANS: 4/19/19 JLS

JOB NO.  
COF1065.01F  
SHEET

174

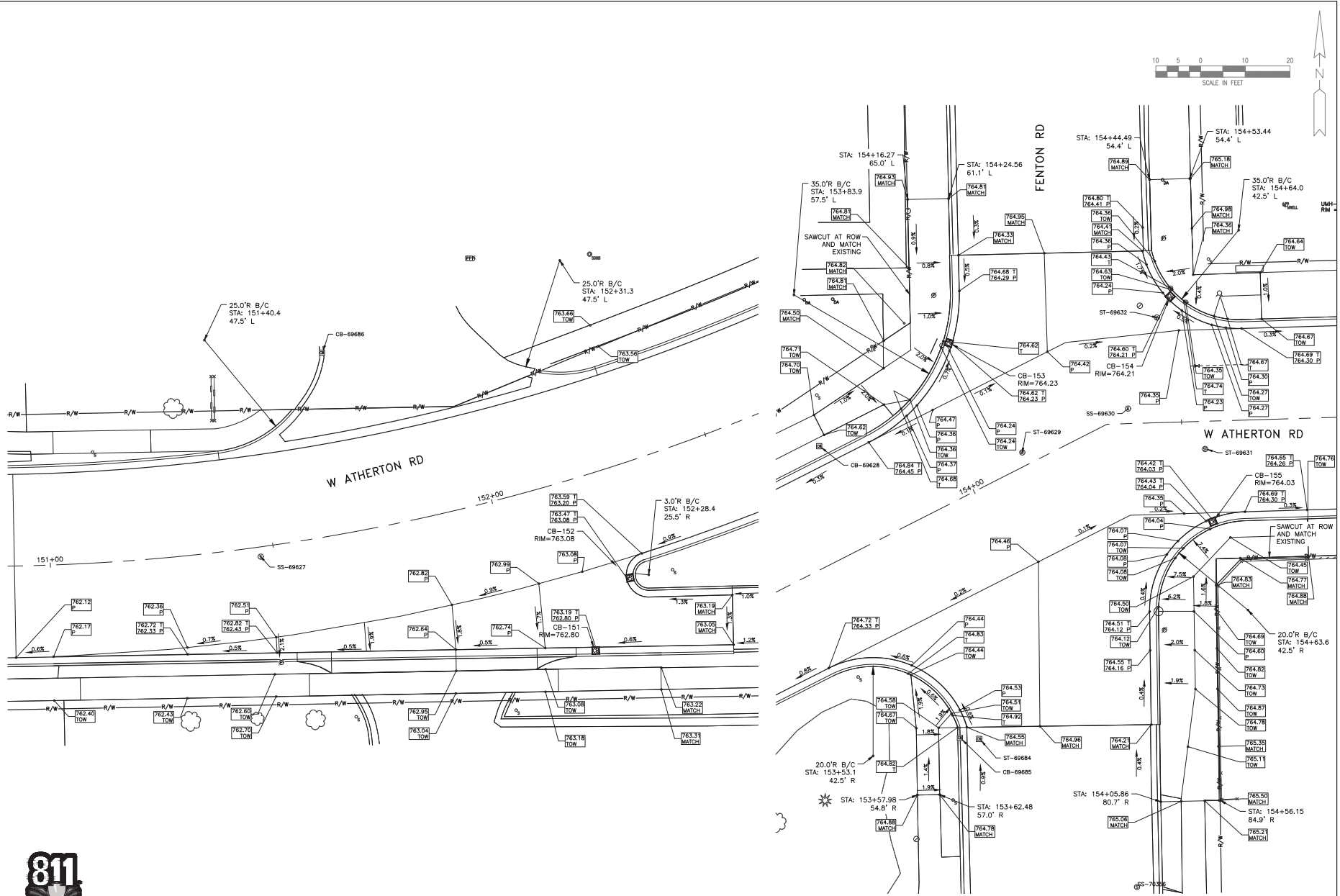
© Wade Trim Corp., Inc.

PROJECT MANAGER: Jeremy Schmitt  
CITY OF FLINT, MI 48902  
ISSUED FOR: DATE: 10/25/18  
BY: JLS  
REVIEW: 2/25/19 JLS  
FINAL PLANS: 4/18/19 JLS



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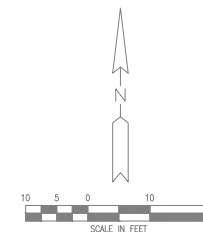
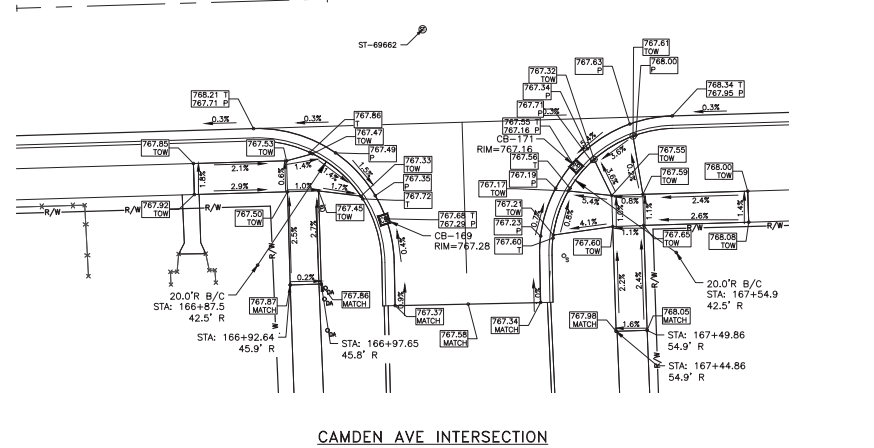
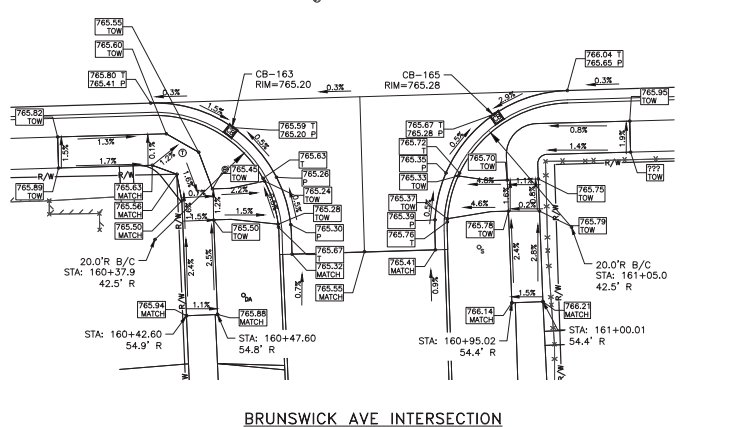
# FENTON RD INTERSECTION



NO.	DESCRIPTION	DATE	BY
1	ISSUED FOR: DATE: 10/25/18		JLS
2	REVIEW: 2/25/19		JLS
3	FINAL PLANS: 4/18/19		JLS
JOB NO. C0F1065.01F			
SHEET 175			



CITY OF FLINT  
1101 SOUTH SAGINAW STREET  
FLINT, MI 48902  
ATHERTON ROAD  
DETAILED INTERSECTION GRADES  
FENTON ROAD

[illegible]

CITY OF FLINT  
1101 SOUTH SAGINAW STREET  
FLINT, MI 48502  
ATHERTON ROAD  
DETAILED INTERSECTION GRADES  
BRUNSWICK AVE AND CAMDEN AVE

ISSUED FOR:	DATE:	BY:
GI PLANS	10/25/18	JJS
FINAL REVIEW	2/25/19	JJS
FINAL PLANS	4/19/19	JJS

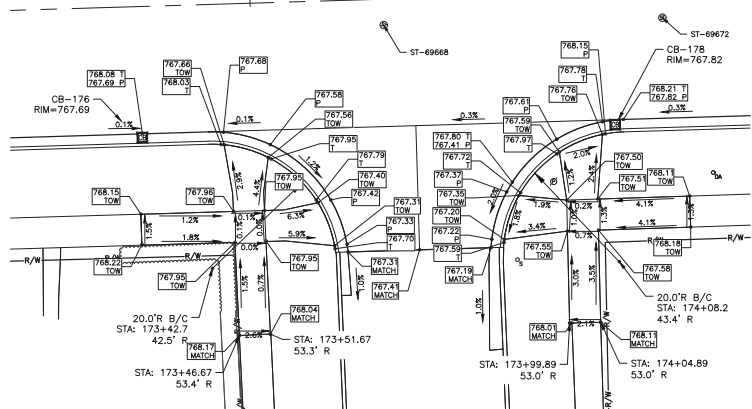
JOB NO.  
COF1065.01F

176

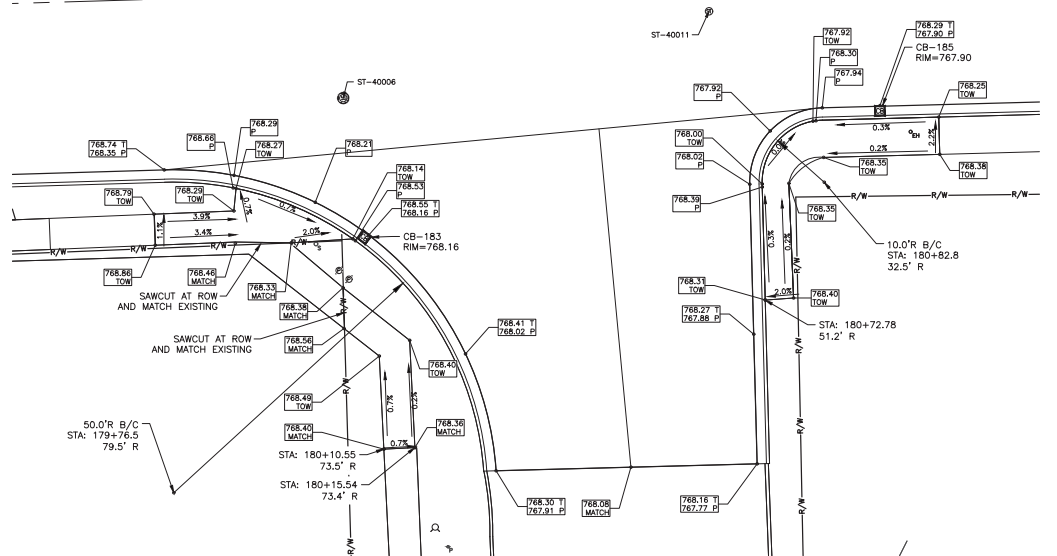


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PROJECT MANAGER: Jeremy Schretz  
FIELD BOOK INFORMATION:--  
INT-7 -- PLOTTED 4/19/2019 2:59 AM BY RUGGLES, TIMOTHY

[illegible]

CITY OF FLINT  
1101 SOUTH SAGINAW STREET  
FLINT, MI 48502  
ATHERTON ROAD  
DETAILED INTERSECTION GRADES  
CUSTON AVE AND S GRAND TRAVERSE ST

ISSUED FOR:	DATE:	BY:
GI PLANS	10/25/18	JJS
FINAL REVIEW	2/25/19	JJS
FINAL PLANS	4/19/19	JJS

JOB NO.  
C051065 01F

SHEET

177

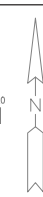
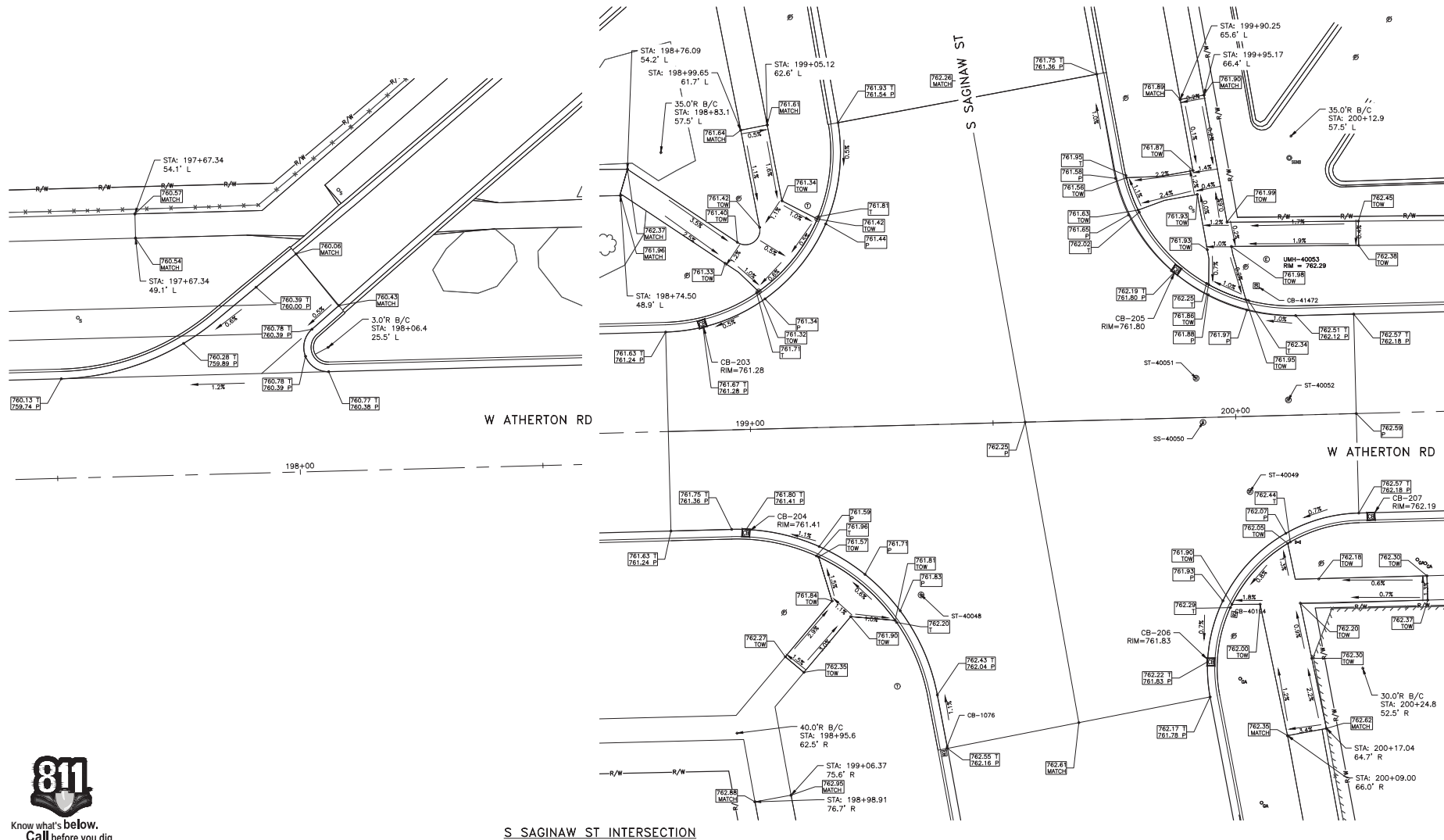
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PROJECT MANAGER: Jeremy Schmitt  
CITY OF FLINT, MI 48502  
FIELD BOOK INFORMATION: - NT-9 - PLOTTED 4/19/2019 3:00 PM BY RUGGLES, TMOHY



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ISSUED FOR: DATE: BY:	DATE: 10/25/18	BY: JLS
REVIEW: DATE: BY:	DATE: 2/25/19	BY: JLS
FINAL: DATE: BY:	DATE: 4/19/19	BY: JLS

ISSUED FOR: DATE: BY:

REVIEW: DATE: BY:

FINAL: DATE: BY:

JOB NO. C0F1065.01F

SHEET 179

Wade Trim Corp., Inc.

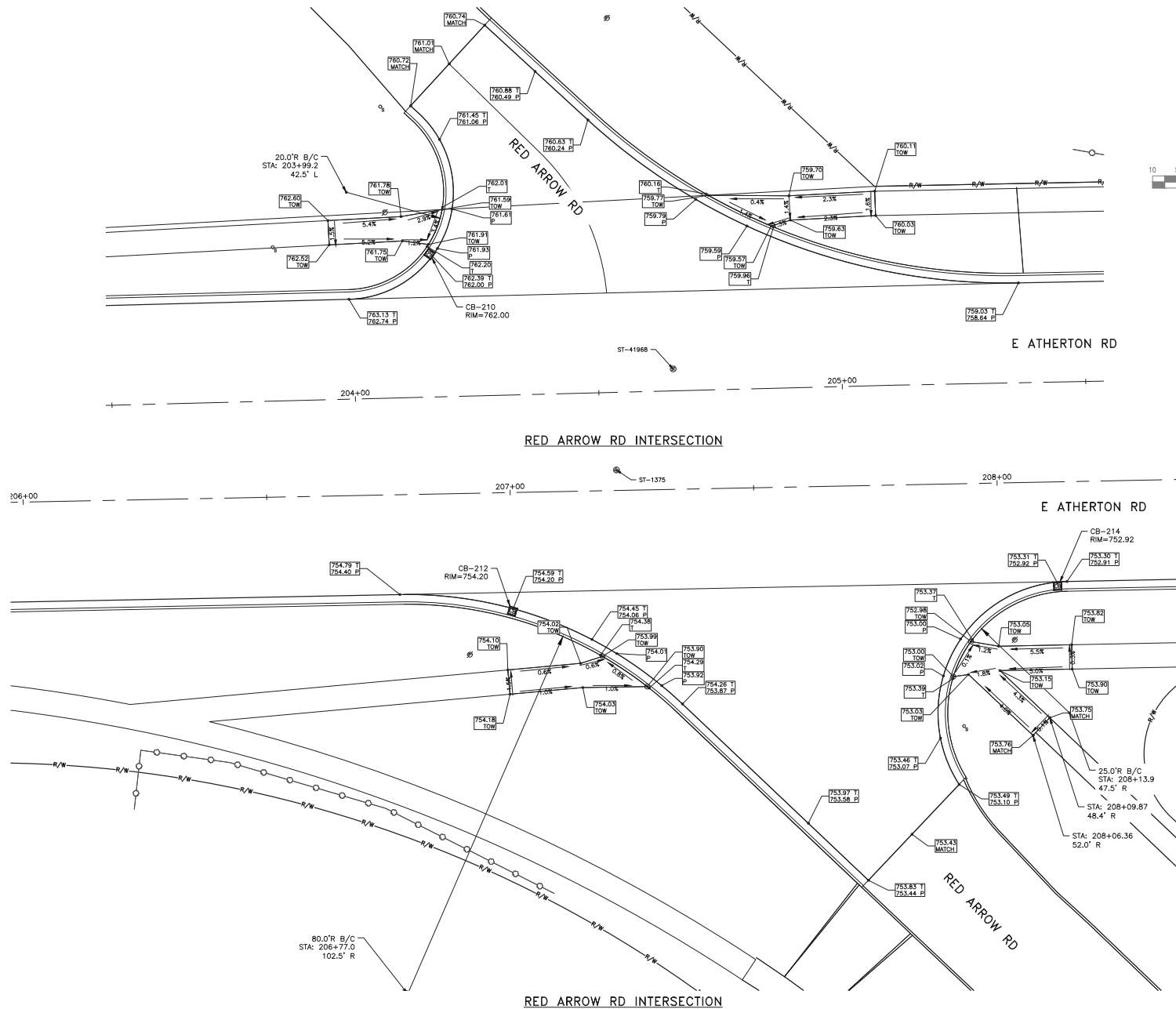
Wade Trim

1101 SOUTH SAGINAW STREET  
FLINT, MI 48502  
ATHERTON ROAD  
DETAILED INTERSECTION GRADES  
S SAGINAW ST

PROJECT MANAGER: Jeremy Schmitt  
 CIVIL ENGINEER: JAMES CORSEY, INC. - DETAIL GRADES - 2.DWG - NT-10 - PLOTTED 4/19/2019 3:00 AM BY: AUGUST, TIMOTHY



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REV	DATE	DESCRIPTION	BY

100 S. Engineer Street, Suite 201  
 Flint, MI 48902  
 810.242.2002  
 www.wade-trim.com

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CITY OF FLINT  
 1101 SOUTH SAGINAW STREET  
 FLINT, MI 48902  
 ATHERTON ROAD  
 DETAILED INTERSECTION GRADES  
 RED ARROW RD

ISSUED FOR: DATE: BY:  
 GR PLANS 10/25/18 JLS  
 FINAL REVIEW 2/25/19 JLS  
 FINAL PLANS 4/19/19 JLS

JOB NO.  
 C0F1065.01F

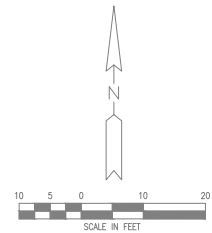
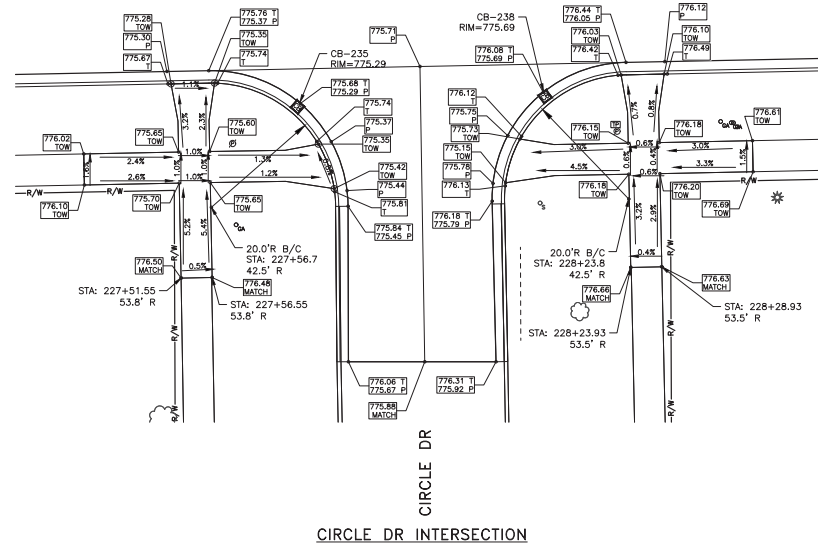
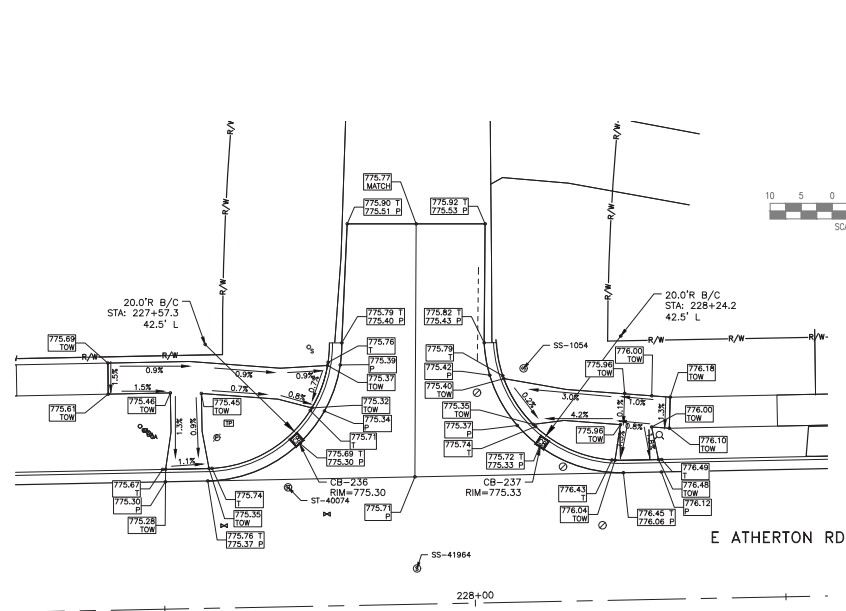
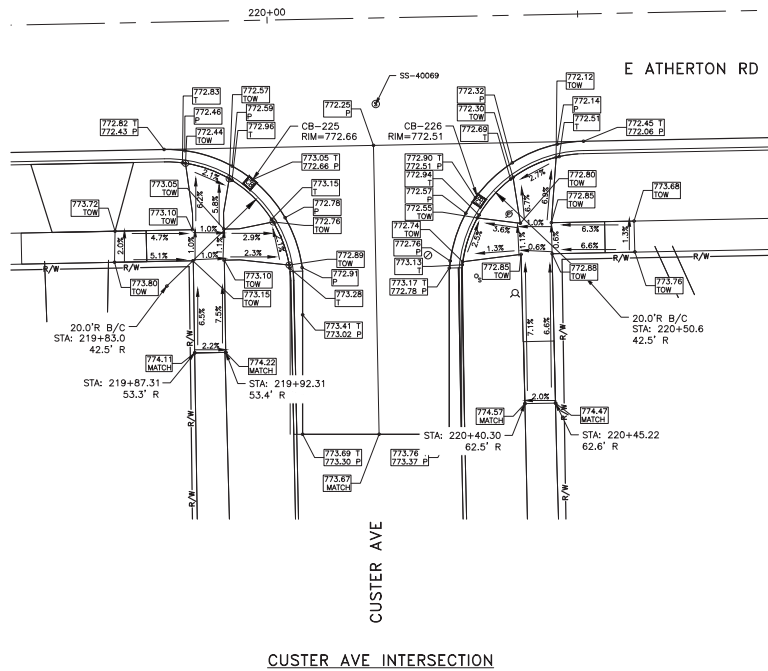
SHEET  
 180

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REV	DATE	DESCRIPTION	BY

ISSUED FOR: DATE: 10/25/18  
BY: JLS  
REVIEW: 2/25/19 JLS  
FINAL: 4/18/19 JLS

1101 SOUTH SAGINAW STREET  
FLINT, MI 48502  
ATHERTON ROAD  
DETAILED INTERSECTION GRADES  
CUSTER AVE AND CIRCLE DR

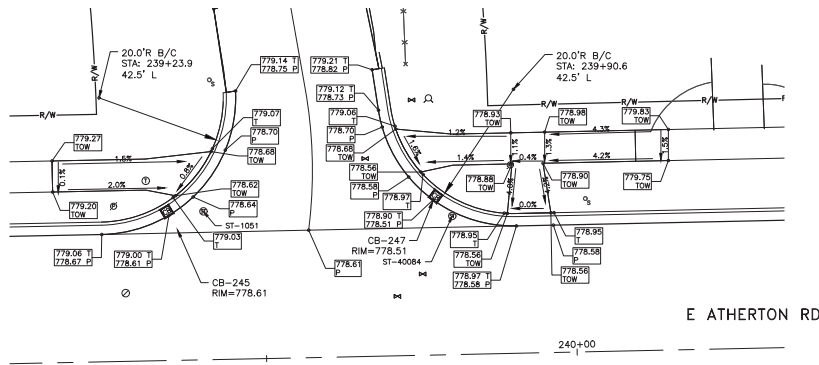
WADE TRIM

181
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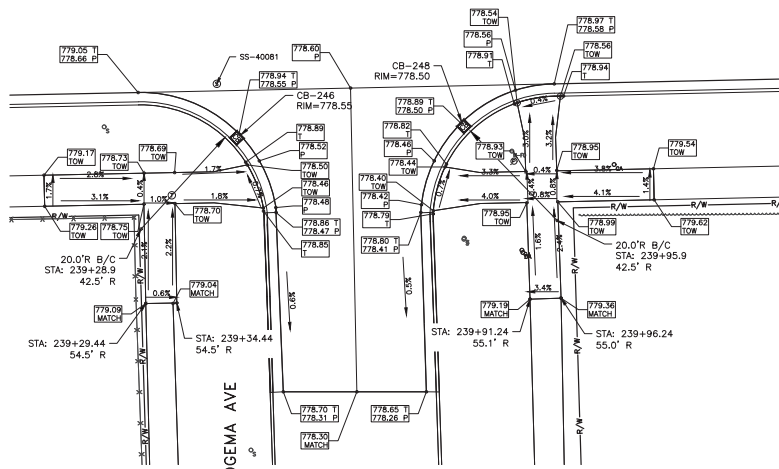
PROJECT MANAGER: Jeremy Schmitt  
CITY OF FLINT, MI 48502  
FIELD BOOK INFORMATION: - NT-12 - PLOTTED 4/19/2019 3:05 AM BY AUGUSTE, TIMOTHY



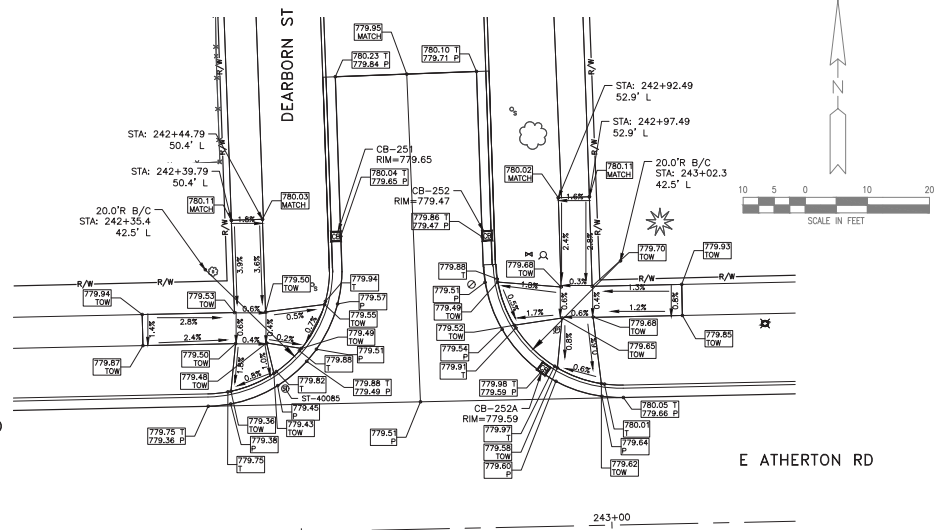
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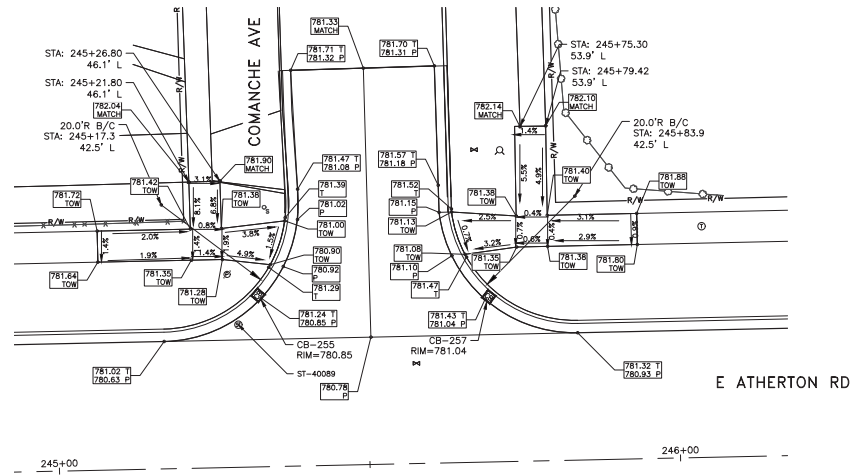
E ATHERTON RD



OGEEMA AVE INTERSECTION



E ATHERTON RD



E ATHERTON RD

COMANCHE AVE INTERSECTION

REV	DATE	DESCRIPTION	BY

500 S. Engineer Street, Suite 201  
Flint, MI 48502  
www.wade-trim.com

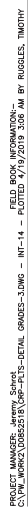
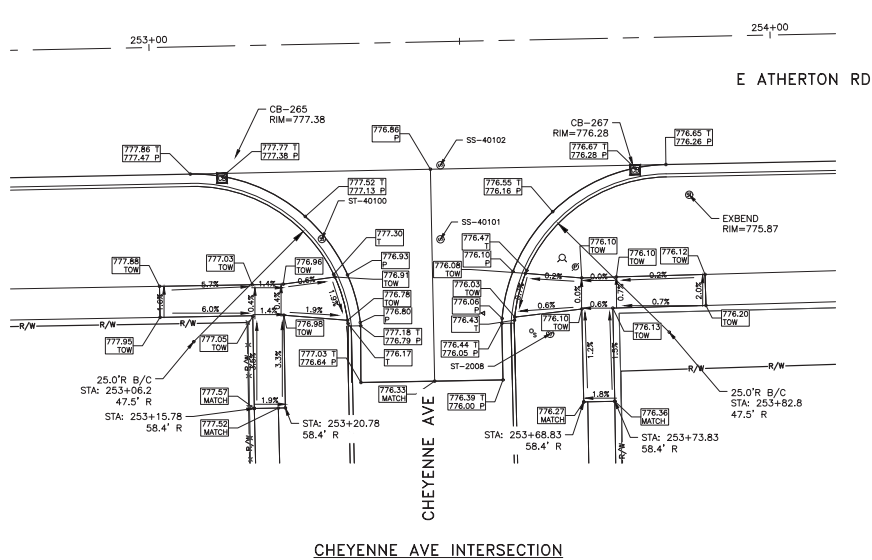
**WADE TRIM**

CITY OF FLINT  
1101 SOUTH SAGINAW STREET  
FLINT, MI 48502  
ATHERTON ROAD  
DETAILED INTERSECTION GRADES  
OMEGA AVE, DEARBORN ST AND COMANCHE AVE

ISSUED FOR: DATE: 8/1  
BY: 10/25/18  
FINAL REVIEW: 2/25/19  
FINAL PLANS: 4/18/19

JOB NO: COF1065.01F  
SHEET

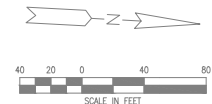


184









1	4 INCH, YELLOW (DOUBLE SOLID)
2	4 INCH, YELLOW (SOLID & BROKEN) (12.5" MARK, 37.5" GAP)
3	4 INCH, WHITE (SOLID)
4	6 INCH, WHITE (SOLID)
5	12 INCH, YELLOW (SOLID, 45" 20" SPACE)
6	12 INCH, WHITE (SOLID, 45" 20" SPACE)
7	ONLY COLD PLASTIC, LT TURN ARROW
8	ONLY COLD PLASTIC, 24 INCH STOP BAR
9	ONLY COLD PLASTIC, THRU RT ARROW
10	ONLY COLD PLASTIC, RT TURN ARROW
11	4 INCH, WHITE (BROKEN) (12.5" MARK, 37.5" GAP)
12	4 INCH, YELLOW (BROKEN) (12.5" MARK, 37.5" GAP)

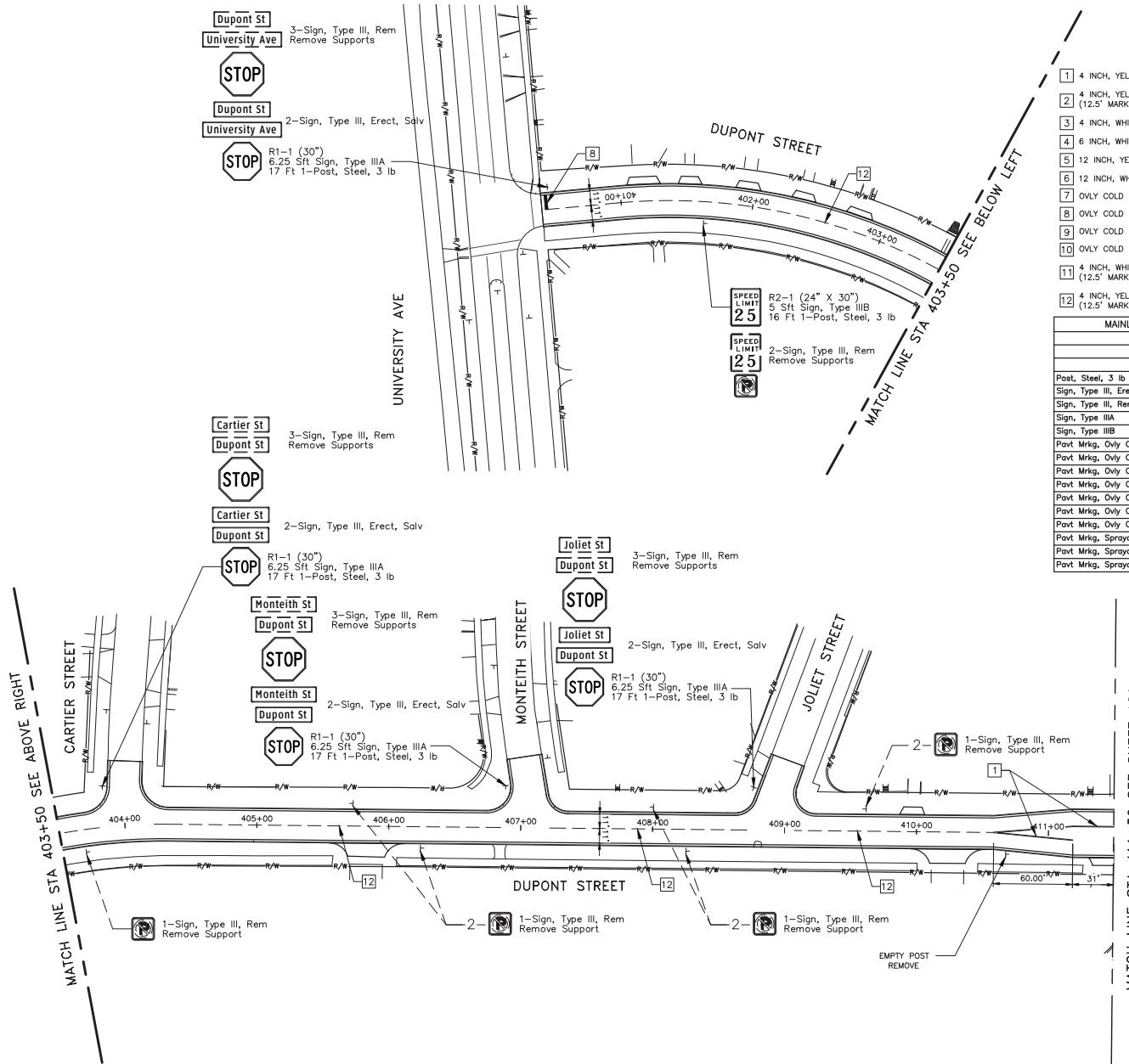
CITY OF FLINT  
11101 SOUTH SAGINAW STREET  
FLINT, MI 48502  
DUPONT STREET - NORTH  
PAVEMENT MARKING AND SIGNING 3

ISSUED FOR:	DATE:	BY:
GI PLANS	10/25/18	JJS
FINAL REVIEW	2/25/19	JJS
FINAL PLANS	4/19/19	JJS

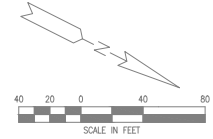
JOB NO.  
COF1065.01F

SHEET  
187

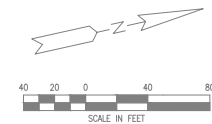
PROJECT MANAGER: -- FIELD BOOK INFORMATION:--  
C:\PW\_WORK2\00852519\CPM--PLTS--SIGN&PAV\TRKG.DWG -- DN-3 -- PLOTTED 4/19/2019 2:33 PM BY WHEELER, THOMAS



- 1 4 INCH, YELLOW (DOUBLE SOLID)
- 2 4 INCH, YELLOW (SOLID & BROKEN) (12.5' MARK, 37.5' GAP)
- 3 4 INCH, WHITE (SOLID)
- 4 6 INCH, WHITE (SOLID)
- 5 12 INCH, YELLOW (SOLID, 45' 20' SPACE)
- 6 12 INCH, WHITE (SOLID, 45' 20' SPACE)
- 7 OVLY COLD PLASTIC, LT TURN ARROW
- 8 OVLY COLD PLASTIC, 24 INCH STOP BAR
- 9 OVLY COLD PLASTIC, THRU RT ARROW
- 10 OVLY COLD PLASTIC, RT TURN ARROW
- 11 4 INCH, WHITE (BROKEN) (12.5' MARK, 37.5' GAP)
- 12 4 INCH, YELLOW (BROKEN) (12.5' MARK, 37.5' GAP)



MAINLINE QUANTITIES - THIS SHEET		
	JN 200906	
	CAT 0001	
ITEM	QUANTITY	UNIT
Post, Steel, 3 lb	84	Ft
Sign, Type III, Erect, Salv	8	Ea
Sign, Type III, Rem	21	Ea
Sign, Type IIIA	25	Sft
Sign, Type IIIB	5	Sft
Pavt Mrlg, Ovly Cold Plastic, 6 inch, Crosswalk	11	Ft
Pavt Mrlg, Ovly Cold Plastic, 12 inch, Cross Hatching, White		Ft
Pavt Mrlg, Ovly Cold Plastic, 12 inch, Cross Hatching, Yellow		Ft
Pavt Mrlg, Ovly Cold Plastic, 24 inch, Stop Bar		Ft
Pavt Mrlg, Ovly Cold Plastic, Lt Turn Arrow Sym		Ea
Pavt Mrlg, Ovly Cold Plastic, Rt Turn Arrow Sym		Ea
Pavt Mrlg, Ovly Cold Plastic, Thru and Rt Turn Arrow Sym		Ea
Pavt Mrlg, Sprayable Thermopl, 4 inch, White		Ft
Pavt Mrlg, Sprayable Thermopl, 4 inch, Yellow	482	Ft
Pavt Mrlg, Sprayable Thermopl, 6 inch, White		Ft



NO.	DESCRIPTION	DATE	BY

1101 SOUTH SAGINAW STREET  
 FLINT, MI 48502  
 DUPONT STREET - SOUTH  
 PAVEMENT MARKING AND SIGNING 1

ISSUED FOR: DATE: BY:  
 11/23/2018  
 11/23/2018  
 11/23/2018

Wade Trim

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

**CITY OF FLINT**  
**1101 SOUTH SAGINAW STREET**  
**FLINT, MI 48502**  
**DUPONT STREET - SOUTH**  
**PAVEMENT MARKING AND SIGNING 1**

ISSUED FOR: DATE: BY:  
 11/23/2018  
 11/23/2018  
 11/23/2018

JOB NO. COF1065.01F

SHEET 188

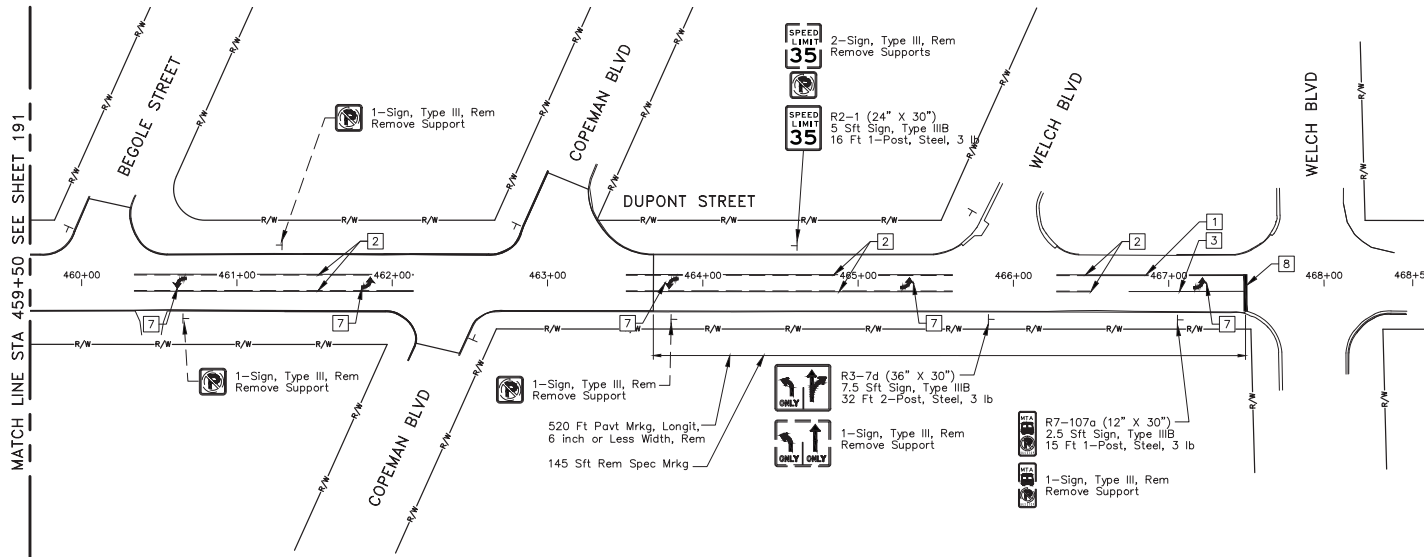
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- 1 4 INCH, YELLOW (DOUBLE SOLID)
- 2 4 INCH, YELLOW (SOLID & BROKEN)  
(12.5' MARK, 37.5' GAP)
- 3 4 INCH, WHITE (SOLID)
- 4 6 INCH, WHITE (SOLID)
- 5 12 INCH, YELLOW (SOLID, 45' 20' SPACE)
- 6 12 INCH, WHITE (SOLID, 45' 20' SPACE)
- 7 OVLV COLD PLASTIC, LT TURN ARROW
- 8 OVLV COLD PLASTIC, 24 INCH STOP BAR
- 9 OVLV COLD PLASTIC, THRU RT ARROW
- 10 OVLV COLD PLASTIC, RT TURN ARROW
- 11 4 INCH, WHITE (BROKEN)  
(12.5' MARK, 37.5' GAP)
- 12 4 INCH, YELLOW (BROKEN)  
(12.5' MARK, 37.5' GAP)

JOB NO. JN200906



CITY OF FLINT  
1101 SOUTH SAGINAW STREET  
FLINT, MI 48502  
DUPONT STREET - SOUTH  
PAVEMENT MARKING AND SIGNING 5

ISSUED FOR: DATE: BY:  
SI PLANS 10/25/18 JLS  
FINAL REVIEW 2/25/19 JLS  
FINAL PLANS 4/19/19 JLS

JOB NO.  
COF1065.01F

SHEET  
192



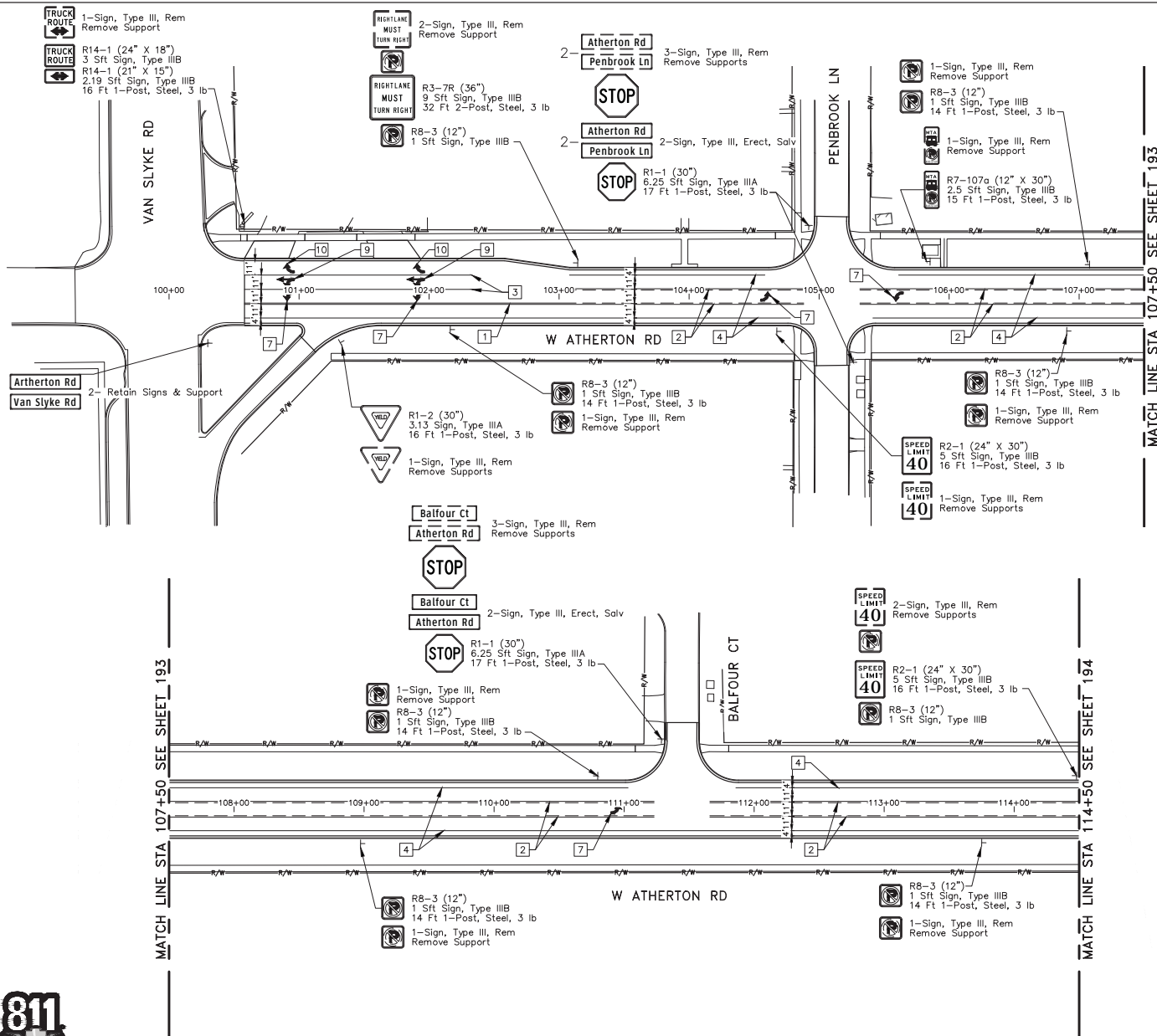
505 S. Saginaw Street, Suite 201  
Flint, MI 48502  
www.wadetrims.com

REV	DATE	DESCRIPTION	BY



Know what's below.  
Call before you dig.

JOB NO. JN201292



- 1 4 INCH, YELLOW (DOUBLE SOLID)
- 2 4 INCH, YELLOW (SOLID & BROKEN) (12.5' MARK, 37.5' GAP)
- 3 4 INCH, WHITE (SOLID)
- 4 6 INCH, WHITE (SOLID)
- 5 12 INCH, YELLOW (SOLID, 45' 20' SPACE)
- 6 12 INCH, WHITE (SOLID, 45' 20' SPACE)
- 7 ONLY COLD PLASTIC, LT TURN ARROW
- 8 ONLY COLD PLASTIC, 24 INCH STOP BAR
- 9 ONLY COLD PLASTIC, THRU LT ARROW
- 10 ONLY COLD PLASTIC, RT TURN ARROW
- 11 4 INCH, WHITE (BROKEN) (12.5' MARK, 37.5' GAP)
- 12 4 INCH, YELLOW (BROKEN) (12.5' MARK, 37.5' GAP)

MAINLINE QUANTITIES - THIS SHEET		
	JN 201292	
	CAT 0001	
ITEM	QUANTITY	UNIT
Post, Steel, 3 lb	246	Ft
Sign, Type III, Erect, Salv	6	Ea
Sign, Type III, Rem	23	Ea
Sign, Type IIIA	23.25	Sft
Sign, Type IIIB	37.82	Sft
Pav. Mrgk, Only Cold Plastic, 6 inch, Crosswalk		Ft
Pav. Mrgk, Only Cold Plastic, 12 inch, Cross Hatching, White		Ft
Pav. Mrgk, Only Cold Plastic, 12 inch, Cross Hatching, Yellow		Ft
Pav. Mrgk, Only Cold Plastic, 24 inch, Stop Bar		Ft
Pav. Mrgk, Only Cold Plastic, Lt Turn Arrow Sym	5	Ea
Pav. Mrgk, Only Cold Plastic, Rt Turn Arrow Sym	2	Ea
Pav. Mrgk, Only Cold Plastic, Thru and Lt Turn Arrow Sym	2	Ea
Pav. Mrgk, Sprayable Thermopl, 4 inch, White	350	Ft
Pav. Mrgk, Sprayable Thermopl, 4 inch, Yellow	3140	Ft
Pav. Mrgk, Sprayable Thermopl, 6 inch, White	2284	Ft

CITY OF FLINT  
1101 SOUTH SAGINAW STREET  
FLINT, MI 48502  
ATHERTON ROAD  
PAVEMENT MARKING AND SIGNING 1

ISSUED FOR: DATE: BY:  
2: PLANS 10/25/18 JUS  
FINAL REVIEW 2/25/19 JUS  
FINAL PLANS 4/19/19 JUS

JOB NO.  
C0F1065.01F

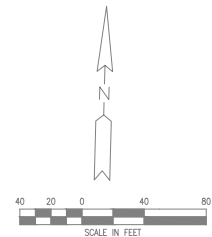
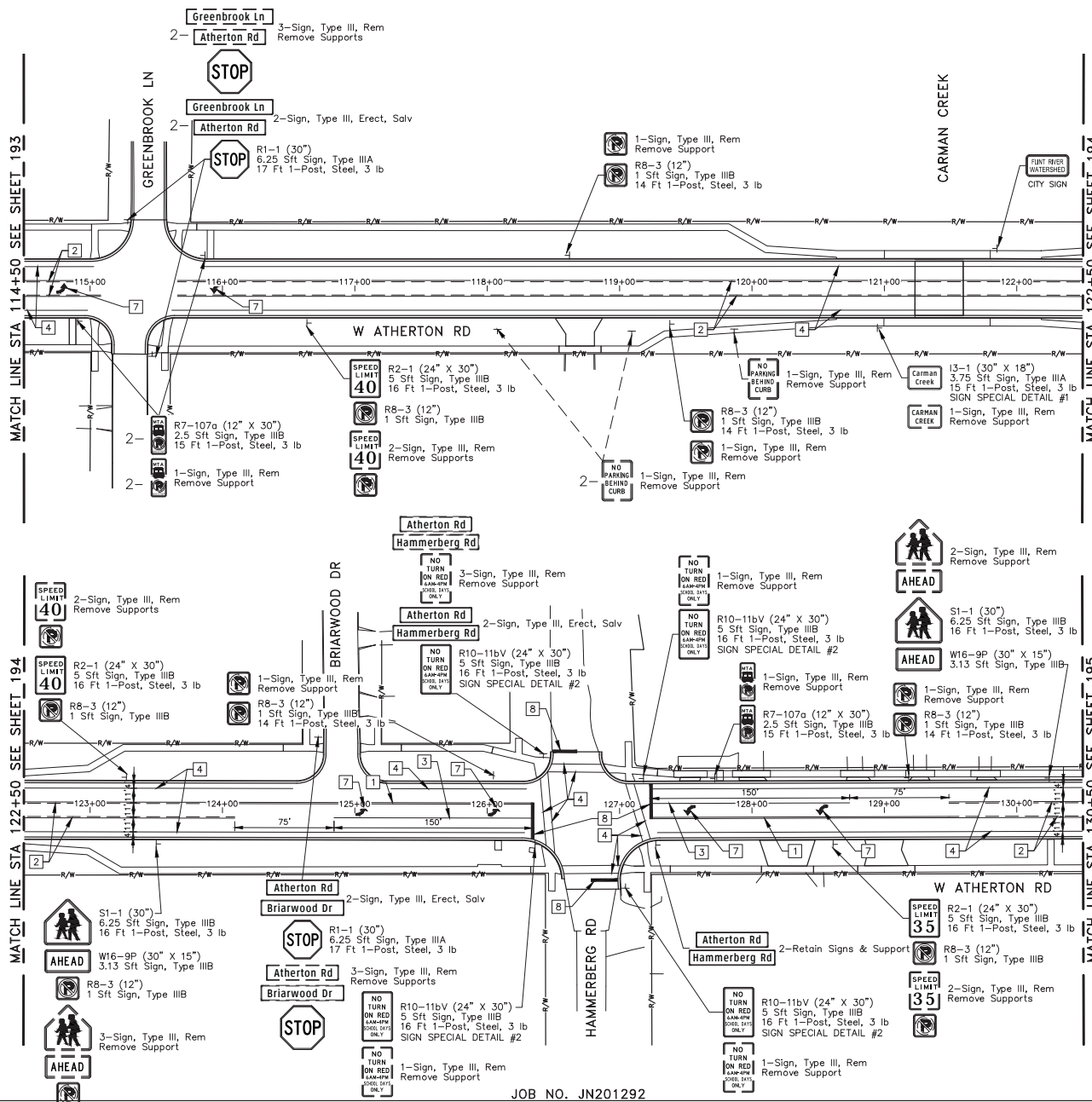
SHEET

193





Know what's below.  
Call before you dig.



- 1 4 INCH, YELLOW (DOUBLE SOLID)
- 2 4 INCH, YELLOW (SOLID & BROKEN) (12.5' MARK, 37.5' GAP)
- 3 4 INCH, WHITE (SOLID)
- 4 6 INCH, WHITE (SOLID)
- 5 12 INCH, YELLOW (SOLID, 45' 20' SPACE)
- 6 12 INCH, WHITE (SOLID, 45' 20' SPACE)
- 7 ONLY COLD PLASTIC, LT TURN ARROW
- 8 ONLY COLD PLASTIC, 24 INCH STOP BAR
- 9 ONLY COLD PLASTIC, THRU LT ARROW
- 10 ONLY COLD PLASTIC, RT TURN ARROW
- 11 4 INCH, WHITE (BROKEN) (12.5' MARK, 37.5' GAP)
- 12 4 INCH, YELLOW (BROKEN) (12.5' MARK, 37.5' GAP)

MAINLINE QUANTITIES - THIS SHEET		
	JN 201292	
ITEM	QUANTITY	UNIT
Post, Steel, 3 lb	311	Ft
Sign, Type III, Erect, Salv	8	Ea
Sign, Type III, Rem	37	Ea
Sign, Type IIIA	22.5	Sft
Sign, Type IIIB	107.25	Sft
Pav't Mrgk, Only Cold Plastic, 6 inch, Crosswalk	369	Ft
Pav't Mrgk, Only Cold Plastic, 12 inch, Cross Hatching, White		Ft
Pav't Mrgk, Only Cold Plastic, 12 inch, Cross Hatching, Yellow		Ft
Pav't Mrgk, Only Cold Plastic, 24 inch, Stop Bar	71	Ft
Pav't Mrgk, Only Cold Plastic, Lt Turn Arrow Sym	6	Ea
Pav't Mrgk, Only Cold Plastic, Rt Turn Arrow Sym		Ea
Pav't Mrgk, Only Cold Plastic, Thru and Lt Turn Arrow Sym		Ea
Pav't Mrgk, Sprayable Thermop, 4 inch, White	348	Ft
Pav't Mrgk, Sprayable Thermop, 4 inch, Yellow	348.3	Ft
Pav't Mrgk, Sprayable Thermop, 6 inch, White	2784.5	Ft

CITY OF FLINT  
1101 SOUTH SAGINAW STREET  
FLINT, MI 48502  
ATHERTON ROAD  
PAVEMENT MARKING AND SIGNING 2

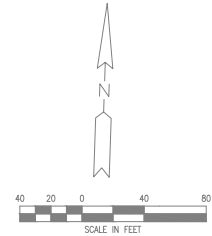
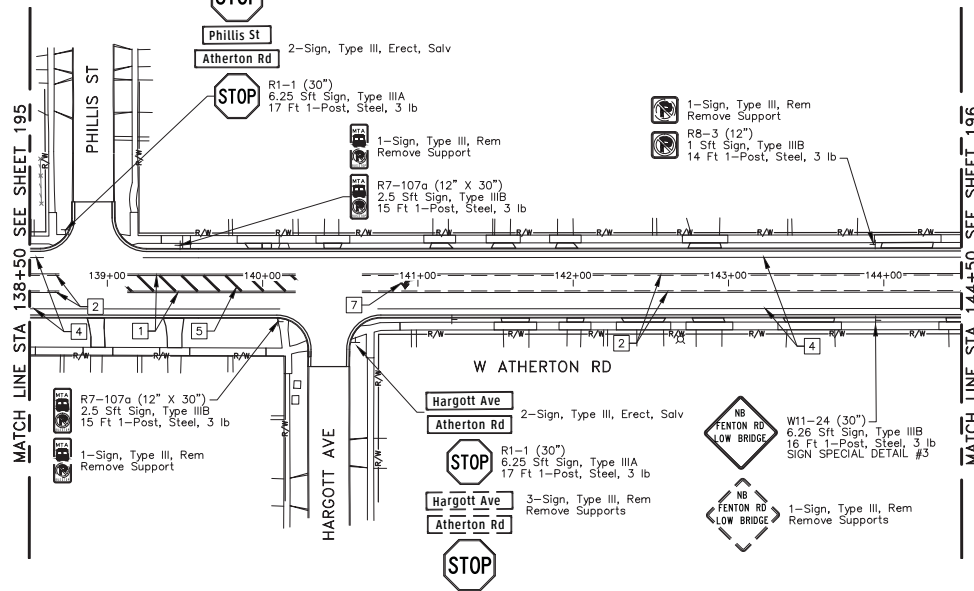
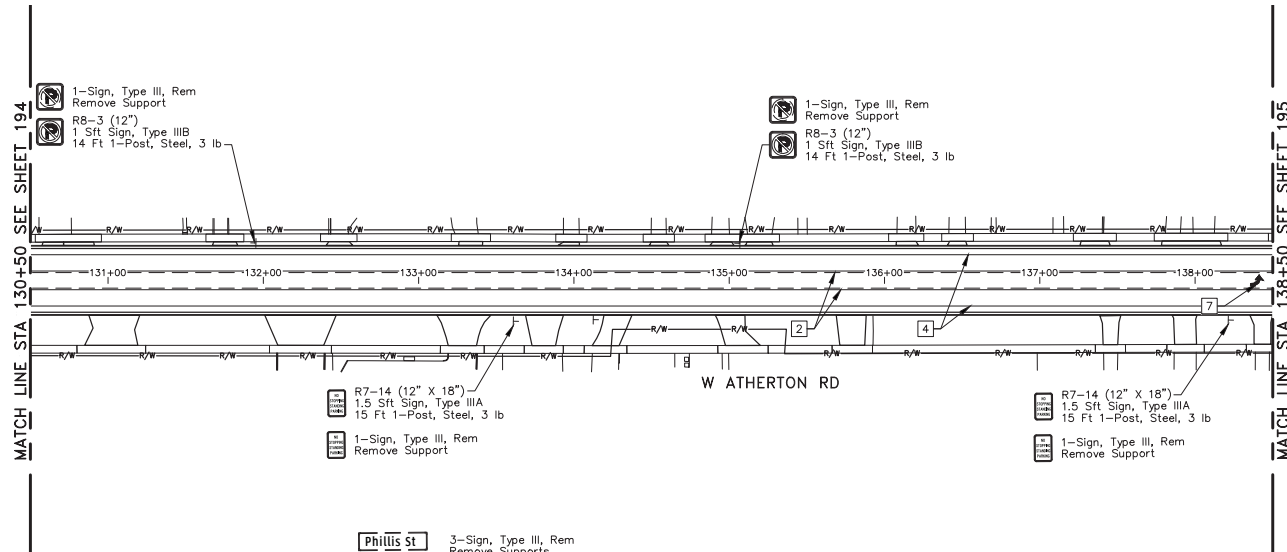
ISSUED FOR: DATE: BY:  
21 PLANS 10/25/18 JUS  
FINAL REVIEW 2/25/19 JUS  
FINAL PLANS 4/19/19 JUS

JOB NO.  
COF1065.01F

SHEET



Know what's below.  
Call before you dig.



- 1 4 INCH, YELLOW (DOUBLE SOLID)
- 2 4 INCH, YELLOW (SOLID & BROKEN) (12.5' MARK, 37.5' GAP)
- 3 4 INCH, WHITE (SOLID)
- 4 6 INCH, WHITE (SOLID)
- 5 12 INCH, YELLOW (SOLID, 45' 20' SPACE)
- 6 12 INCH, WHITE (SOLID, 45' 20' SPACE)
- 7 ONLY COLD PLASTIC, LT TURN ARROW
- 8 ONLY COLD PLASTIC, 24 INCH STOP BAR
- 9 ONLY COLD PLASTIC, THRU LT ARROW
- 10 ONLY COLD PLASTIC, RT TURN ARROW
- 11 4 INCH, WHITE (BROKEN) (12.5' MARK, 37.5' GAP)
- 12 4 INCH, YELLOW (BROKEN) (12.5' MARK, 37.5' GAP)

MAINLINE QUANTITIES - THIS SHEET			
	JN 201292		
	CAT 0001		
ITEM	QUANTITY	UNIT	
Band, Sign		Ea	
Post, Steel, 3 lb	139	Ft	
Sign, Type IIIA		Sft	
Sign, Type III, Erect, Salv	4	Ea	
Sign, Type III, Rem	14	Ea	
Sign, Type IIIA	12.5	Sft	
Sign, Type IIIB	20	Sft	
Pavt Mrlg, Only Cold Plastic, 6 inch, Crosswalk		Ft	
Pavt Mrlg, Only Cold Plastic, 12 inch, Cross Hatching, White		Ft	
Pavt Mrlg, Only Cold Plastic, 12 inch, Cross Hatching, Yellow	107	Ft	
Pavt Mrlg, Only Cold Plastic, 24 inch, Stop Bar		Ft	
Pavt Mrlg, Only Cold Plastic, Lt Turn Arrow Sym	2	Ea	
Pavt Mrlg, Only Cold Plastic, Rt Turn Arrow Sym		Ea	
Pavt Mrlg, Only Cold Plastic, Thru and Lt Turn Arrow Sym		Ea	
Pavt Mrlg, Sprayable Thermopl, 4 inch, White		Ft	
Pavt Mrlg, Sprayable Thermopl, 4 inch, Yellow	3283	Ft	
Pavt Mrlg, Sprayable Thermopl, 6 inch, White	2673	Ft	

1101 SOUTH SAGINAW STREET  
FLINT, MI 48502  
ATHERTON ROAD  
PAVEMENT MARKING AND SIGNING 3

ISSUED FOR: DATE: BY:  
G1 PLANS: 10/25/18 JUS  
FINAL REVIEW: 2/25/19 JUS  
FINAL PLANS: 4/19/19 JUS

JOB NO.  
C0F1065.01F

SHEET  
195

WADE TRIM

155 N. Saginaw Street, Suite 201  
Flint, MI 48502  
www.wadetrims.com

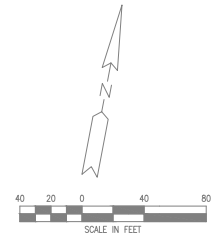
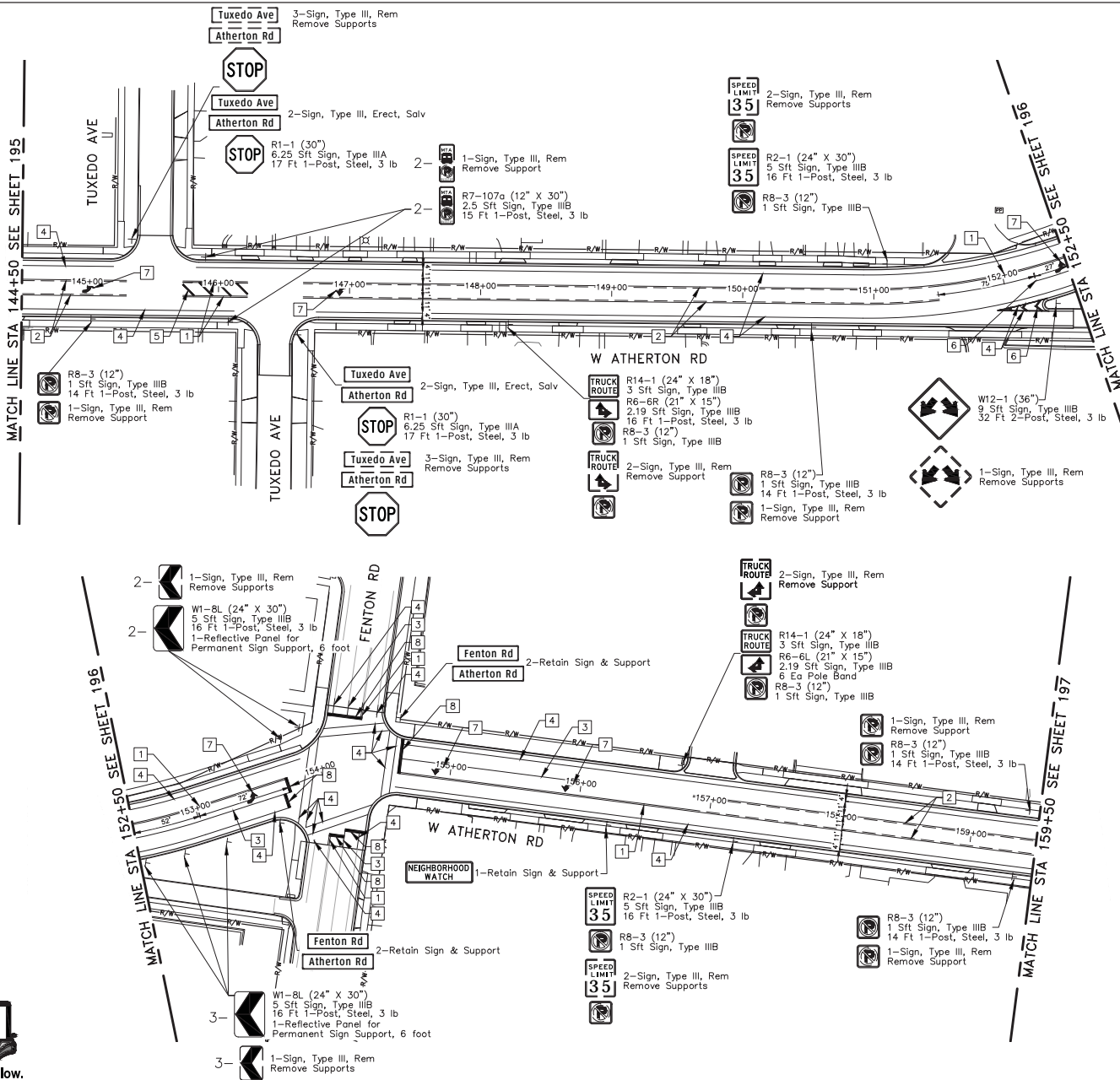
DESCRIPTION

DATE

BY



Know what's below.  
Call before you dig.



- 1 4 INCH, YELLOW (DOUBLE SOLID)
- 2 4 INCH, YELLOW (SOLID & BROKEN) (12.5' MARK, 37.5' GAP)
- 3 4 INCH, WHITE (SOLID)
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- 6 12 INCH, WHITE (SOLID, 45' 20" SPACE)
- 7 ONLY COLD PLASTIC, LT TURN ARROW
- 8 ONLY COLD PLASTIC, 24 INCH STOP BAR
- 9 ONLY COLD PLASTIC, THRU LT ARROW
- 10 ONLY COLD PLASTIC, RT TURN ARROW
- 11 4 INCH, WHITE (BROKEN) (12.5' MARK, 37.5' GAP)
- 12 4 INCH, YELLOW (BROKEN) (12.5' MARK, 37.5' GAP)

MAINLINE QUANTITIES - THIS SHEET		
ITEM	QUANTITY	UNIT
Band, Sign	6	Ea
Post, Steel, 3 lb	299	Ft
Sign, Type IIA		Sft
Sign, Type III, Erect, Salv	4	Ea
Sign, Type III, Rem	25	Ea
Sign, Type IIIA	12.5	Sft
Sign, Type IIIB	66.38	Sft
Pav't Mrkg, Only Cold Plastic, 6 inch, Crosswalk	430	Ft
Pav't Mrkg, Only Cold Plastic, 12 inch, Cross Hatching, White	101	Ft
Pav't Mrkg, Only Cold Plastic, 12 inch, Cross Hatching, Yellow	52.14	Ft
Pav't Mrkg, Only Cold Plastic, 24 inch, Stop Bar	102.5	Ft
Pav't Mrkg, Only Cold Plastic, Lt Turn Arrow Sym	6	Ea
Pav't Mrkg, Only Cold Plastic, Rt Turn Arrow Sym		Ea
Pav't Mrkg, Only Cold Plastic, Thru and Lt Turn Arrow Sym		Ea
Pav't Mrkg, Sprayable Thermopl, 4 inch, White	304	Ft
Pav't Mrkg, Sprayable Thermopl, 4 inch, Yellow	3177	Ft
Pav't Mrkg, Sprayable Thermopl, 6 inch, White	2751	Ft

CITY OF FLINT  
1101 SOUTH SAGINAW STREET  
FLINT, MI 48502  
PAVEMENT MARKING AND SIGNING 4

ISSUED FOR: DATE: BY:  
21 PLANS 10/25/18 JUS  
FINAL REVIEW 2/25/19 JUS  
FINAL PLANS 4/19/19 JUS

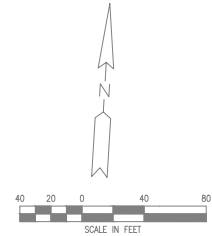
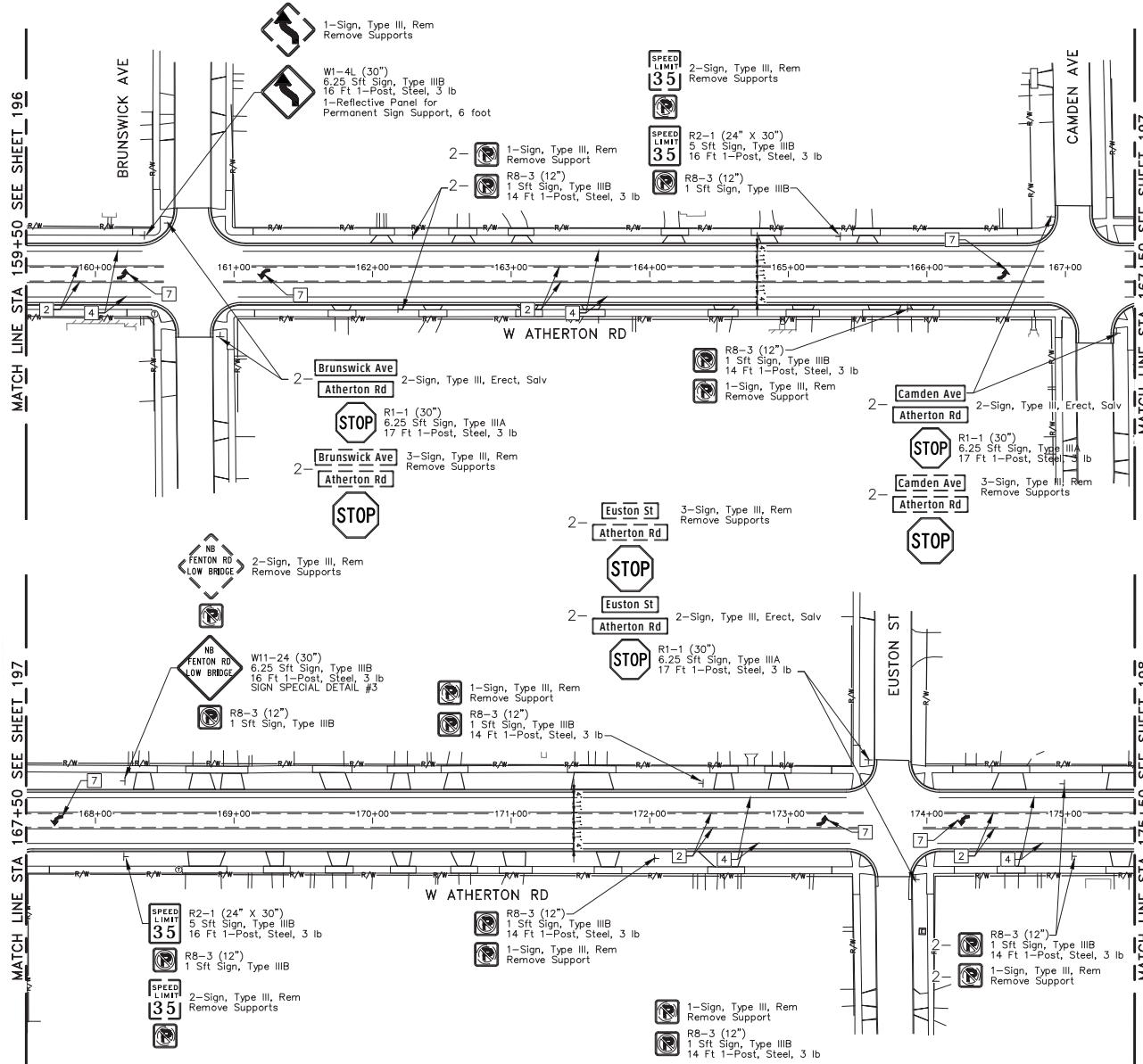
JOB NO.  
COF1065.01F

SHEET  
196

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Know what's below.  
Call before you dig.



- 1 4 INCH, YELLOW (DOUBLE SOLID)
- 2 4 INCH, YELLOW (SOLID & BROKEN) (12.5' MARK, 37.5' GAP)
- 3 4 INCH, WHITE (SOLID)
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- 6 12 INCH, WHITE (SOLID, 45' 20' SPACE)
- 7 ONLY COLD PLASTIC, LT TURN ARROW
- 8 ONLY COLD PLASTIC, 24 INCH STOP BAR
- 9 ONLY COLD PLASTIC, THRU LT ARROW
- 10 ONLY COLD PLASTIC, RT TURN ARROW
- 11 4 INCH, WHITE (BROKEN) (12.5' MARK, 37.5' GAP)
- 12 4 INCH, YELLOW (BROKEN) (12.5' MARK, 37.5' GAP)

MAINLINE QUANTITIES - THIS SHEET			
ITEM	CAT 0001	QUANTITY	UNIT
Band, Sign			
Post, Steel, 3 lb		280	FL
Sign, Type IIA			SFT
Sign, Type III, Erect, Salv		12	Ea
Sign, Type III, Rem		33	Ea
Sign, Type IIIA		37.5	SFT
Sign, Type IIIB		33.5	SFT
Pavt Mrgk, Only Cold Plastic, 6 inch, Crosswalk			FL
Pavt Mrgk, Only Cold Plastic, 12 inch, Cross Hatching, White			FL
Pavt Mrgk, Only Cold Plastic, 12 inch, Cross Hatching, Yellow			FL
Pavt Mrgk, Only Cold Plastic, 24 inch, Stop Bar			FL
Pavt Mrgk, Only Cold Plastic, Lt Turn Arrow Sym		6	Ea
Pavt Mrgk, Only Cold Plastic, Rt Turn Arrow Sym			Ea
Pavt Mrgk, Only Cold Plastic, Thru and Lt Turn Arrow Sym			Ea
Pavt Mrgk, Sprayable Thermopl, 4 inch, White			FL
Pavt Mrgk, Sprayable Thermopl, 4 inch, Yellow		3688	FL
Pavt Mrgk, Sprayable Thermopl, 6 inch, White		2811	FL

CITY OF FLINT  
1101 SOUTH SAGINAW STREET  
FLINT, MI 48502  
ATHERTON ROAD  
PAVEMENT MARKING AND SIGNING 5

ISSUED FOR: DATE: BY:  
21 PLANS 10/25/18 JLS  
FINAL REVIEW 2/25/19 JLS  
FINAL PLANS 4/19/19 JLS

JOB NO.  
COF1065.01F

SHEET  
197

REV#	DATE	DESCRIPTION	BY

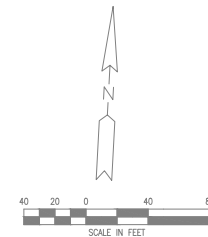
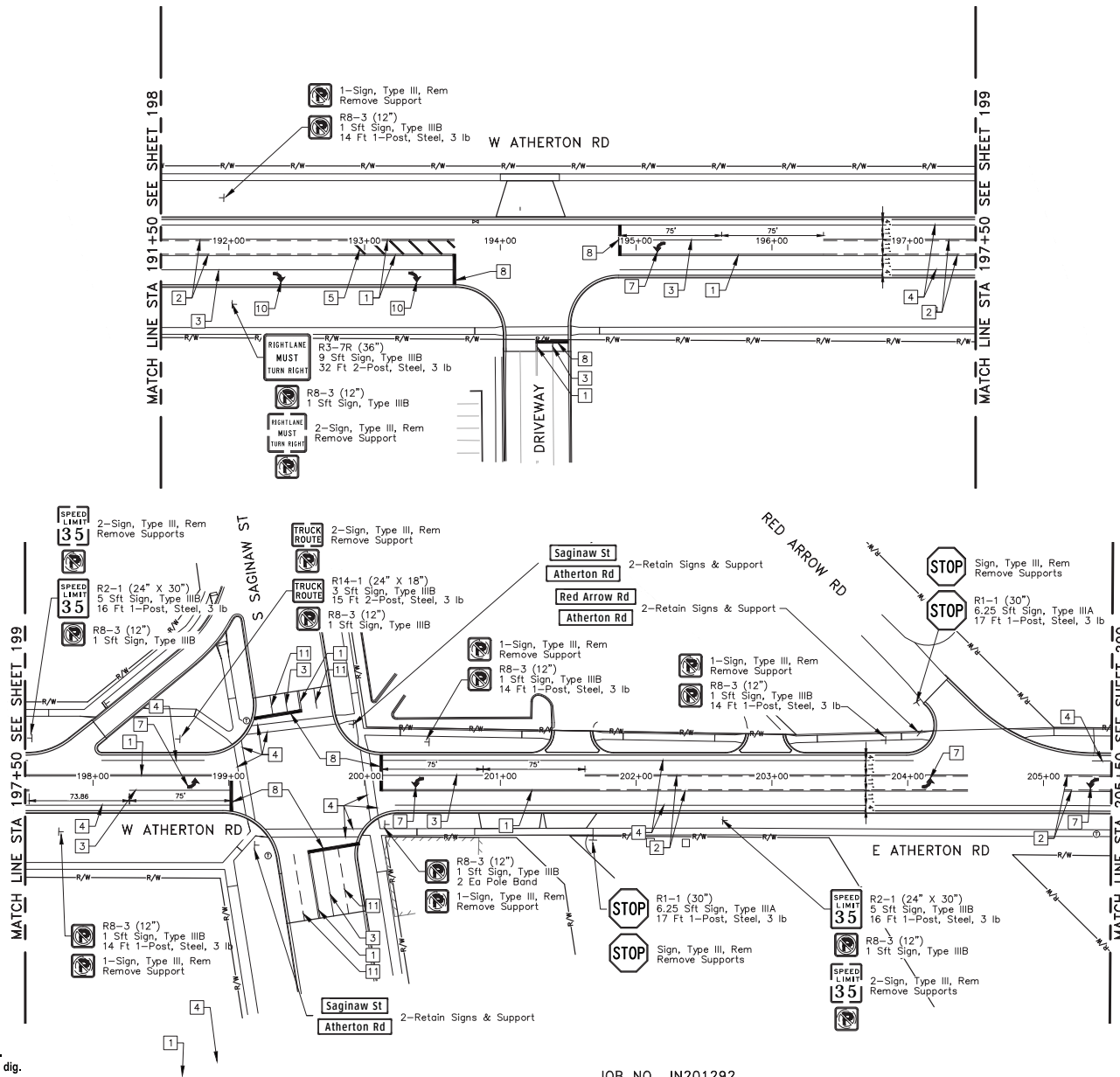








Know what's below.  
 Call before you dig.



- 1 4 INCH, YELLOW (DOUBLE SOLID)
- 2 4 INCH, YELLOW (SOLID & BROKEN) (12.5' MARK, 37.5' GAP)
- 3 4 INCH, WHITE (SOLID)
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- 5 12 INCH, YELLOW (SOLID, 45' 20" SPACE)
- 6 12 INCH, WHITE (SOLID, 45' 20" SPACE)
- 7 ONLY COLD PLASTIC, LT TURN ARROW
- 8 ONLY COLD PLASTIC, 24 INCH STOP BAR
- 9 ONLY COLD PLASTIC, THRU LT ARROW
- 10 ONLY COLD PLASTIC, RT TURN ARROW
- 11 4 INCH, WHITE (BROKEN) (12.5' MARK, 37.5' GAP)
- 12 4 INCH, YELLOW (BROKEN) (12.5' MARK, 37.5' GAP)

MAINLINE QUANTITIES - THIS SHEET		
ITEM	QUANTITY	UNIT
Band, Sign	2	Ea
Post, Steel, 3 lb	183	Ft
Sign, Type IIA		Sft
Sign, Type III, Erect, Salv		Ea
Sign, Type III, Rem	19	Ea
Sign, Type IIIA	12.5	Sft
Sign, Type IIIB	31	Sft
Pav't Mrkg, Only Cold Plastic, 6 Inch, Crosswalk	520	Ft
Pav't Mrkg, Only Cold Plastic, 12 Inch, Cross Hatching, White		Ft
Pav't Mrkg, Only Cold Plastic, 12 Inch, Cross Hatching, Yellow	75	Ft
Pav't Mrkg, Only Cold Plastic, 24 Inch, Stop Bar	88	Ft
Pav't Mrkg, Only Cold Plastic, Lt Turn Arrow Sym	5	Ea
Pav't Mrkg, Only Cold Plastic, Rt Turn Arrow Sym	2	Ea
Pav't Mrkg, Only Cold Plastic, Thru and Lt Turn Arrow Sym		Ea
Pav't Mrkg, Sprayable Thermopl, 4 Inch, White	440	Ft
Pav't Mrkg, Sprayable Thermopl, 6 Inch, White	1940	Ft

CITY OF FLINT  
 1101 SOUTH SAGINAW STREET  
 FLINT, MI 48502  
 AATHERTON ROAD  
 PAVEMENT MARKING AND SIGNING 7

ISSUED FOR: DATE: BY:  
 2: PLANS 10/25/18 JLS  
 FINAL REVIEW 2/25/19 JLS  
 FINAL PLANS 4/19/19 JLS

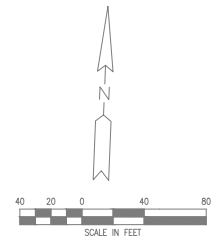
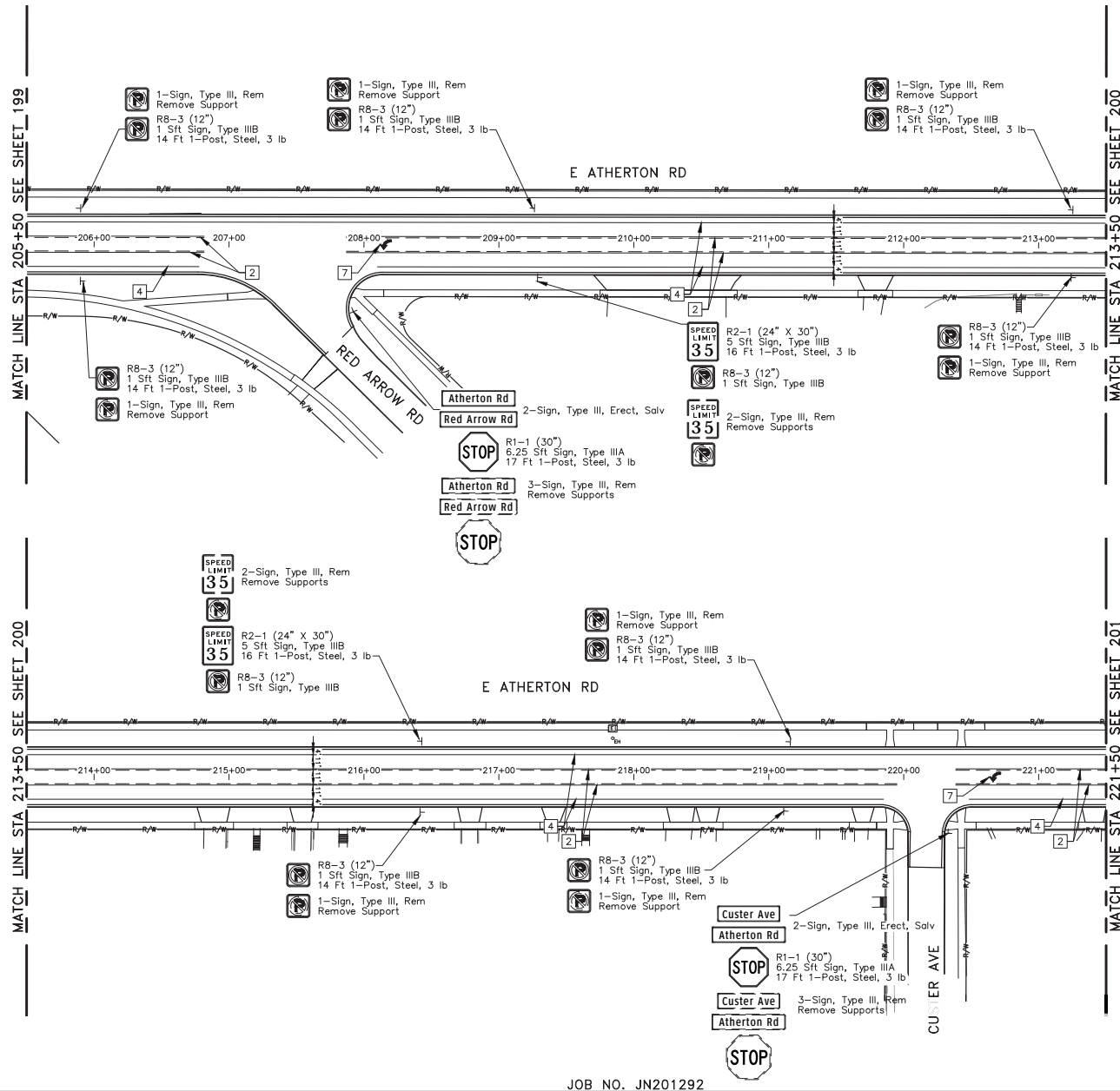
JOB NO.  
 C0F1065.01F

SHEET

199



Know what's below.  
Call before you dig.



- 1 4 INCH, YELLOW (DOUBLE SOLID)
- 2 4 INCH, YELLOW (SOLID & BROKEN)
- 3 4 INCH, WHITE (SOLID)
- 4 6 INCH, WHITE (SOLID)
- 5 12 INCH, YELLOW (SOLID, 45' 20' SPACE)
- 6 12 INCH, WHITE (SOLID, 45' 20' SPACE)
- 7 ONLY COLD PLASTIC, LT TURN ARROW
- 8 ONLY COLD PLASTIC, 24 INCH STOP BAR
- 9 ONLY COLD PLASTIC, THRU LT ARROW
- 10 ONLY COLD PLASTIC, RT TURN ARROW
- 11 4 INCH, WHITE (BROKEN) (12.5' MARK, 37.5' GAP)
- 12 4 INCH, YELLOW (BROKEN) (12.5' MARK, 37.5' GAP)

MAINLINE QUANTITIES - THIS SHEET		
ITEM	JN 201292	
	CAT 0001	
ITEM	QUANTITY	UNIT
Band, Sign		Ea
Post, Steel, 3 lb	178	Ft
Sign, Type IIA		Sft
Sign, Type III, Erect, Salv	4	Ea
Sign, Type III, Rem	18	Ea
Sign, Type IIIA	12.5	Sft
Sign, Type IIIB	15	Sft
Pavt Mrgk, Only Cold Plastic, 6 inch, Crosswalk		Ft
Pavt Mrgk, Only Cold Plastic, 12 inch, Cross Hatching, White		Ft
Pavt Mrgk, Only Cold Plastic, 12 inch, Cross Hatching, Yellow		Ft
Pavt Mrgk, Only Cold Plastic, 24 inch, Stop Bar		Ft
Pavt Mrgk, Only Cold Plastic, Lt Turn Arrow Sym	2	Ea
Pavt Mrgk, Only Cold Plastic, Rt Turn Arrow Sym		Ea
Pavt Mrgk, Only Cold Plastic, Thru and Lt Turn Arrow Sym		Ea
Pavt Mrgk, Sprayable Thermopl, 4 inch, White		Ft
Pavt Mrgk, Sprayable Thermopl, 4 inch, Yellow	3675	Ft
Pavt Mrgk, Sprayable Thermopl, 6 inch, White	3010	Ft

CITY OF FLINT  
1101 SOUTH SAGINAW STREET  
FLINT, MI 48502  
ATHERTON ROAD  
PAVEMENT MARKING AND SIGNING 8

ISSUED FOR: DATE: BY:  
21 PLANS 10/25/18 JLS  
FINAL REVIEW 2/25/19 JLS  
FINAL PLANS 4/19/19 JLS

JOB NO.  
COF1065.01F

SHEET  
200

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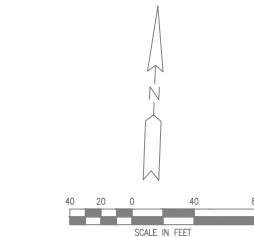
**E ATHERTON RD**

**Stationing:** 222+00, 223+00, 224+00, 225+00, 226+00, 227+00, 228+00, 229+00.

**Callouts and Details:**

- Top Left:**
  - 1-Sign, Type III, Rem Remove Support
  - R8-3 (12")
  - 1 Sft Sign, Type IIIB
  - 14 Ft 1-Post, Steel, 3 lb
- Top Center:**
  - 1-Sign, Type III, Rem Remove Support
  - R8-3 (12")
  - 1 Sft Sign, Type IIIB
  - 14 Ft 1-Post, Steel, 3 lb
- Top Right:**
  - CIRCLE DR
  - Atherton Rd
  - STOP
  - Circle Dr
  - Atherton Rd
  - STOP
  - 2-Sign, Type III, Erect, Salv
  - R1-1 (30")
  - 6.25 Sft Sign, Type IIA
  - 17 Ft 1-Post, Steel, 3 lb
- Bottom Left:**
  - R8-3 (12")
  - 1 Sft Sign, Type IIIB
  - 14 Ft 1-Post, Steel, 3 lb
  - 1-Sign, Type III, Rem Remove Support
- Bottom Center:**
  - R8-3 (12")
  - 1 Sft Sign, Type IIIB
  - 14 Ft 1-Post, Steel, 3 lb
  - 1-Sign, Type III, Rem Remove Support
- Bottom Right:**
  - R8-3 (12")
  - 1 Sft Sign, Type IIIB
  - 14 Ft 1-Post, Steel, 3 lb
  - 1-Sign, Type III, Rem Remove Support

**Other Labels:** CIRCLE DR, R/W, 2, 4, 7.



- |    |  |
|----|--|
| 1  | 4 INCH, YELLOW (DOUBLE SOLID)                              |
| 2  | 4 INCH, YELLOW (SOLID & BROKEN)<br>(12.5" MARK, 37.5" GAP) |
| 3  | 4 INCH, WHITE (SOLID)                                      |
| 4  | 6 INCH, WHITE (SOLID)                                      |
| 5  | 12 INCH, YELLOW (SOLID, 45° 20' SPACE)                     |
| 6  | 12 INCH, WHITE (SOLID, 45° 20' SPACE)                      |
| 7  | ONLY COLD PLASTIC, LT TURN ARROW                           |
| 8  | ONLY COLD PLASTIC, 24 INCH STOP BAR                        |
| 9  | ONLY COLD PLASTIC, THRU LT ARROW                           |
| 10 | ONLY COLD PLASTIC, RT TURN ARROW                           |
| 11 | 4 INCH, WHITE (BROKEN)<br>(12.5" MARK, 37.5" GAP)          |
| 12 | 4 INCH, YELLOW (BROKEN)<br>(12.5" MARK, 37.5" GAP)         |

MAINLINE QUANTITIES - THIS SHEET			
		JN 201292	
		CAT 0001	
ITEM	QUANTITY	UNIT	
Post, Steel, 3 lb	179	Ft	
Sign, Type III, Erect, Salv	2	Ea	
Sign, Type III, Rem	15	Ea	
Sign, Type IIIA	6.25	Sft	
Sign, Type IIIB	27.5	Sft	
Pavt Mrgk, Only Cold Plastic, 6 inch, Crosswalk			
Pavt Mrgk, Only Cold Plastic, 12 inch, Cross Hatching, White		Ft	
Pavt Mrgk, Only Cold Plastic, 12 inch, Cross Hatching, Yellow		Ft	
Pavt Mrgk, Only Cold Plastic, 24 inch, Stop Bar		Ft	
Pavt Mrgk, Only Cold Plastic, Lt Turn Arrow Sym	2	Ea	
Pavt Mrgk, Only Cold Plastic, Rt Turn Arrow Sym		Ea	
Pavt Mrgk, Only Cold Plastic, Thru and Rt Turn Arrow Sym		Ea	
Pavt Mrgk, Sprayable Thermop, 4 inch, White		Ft	
Pavt Mrgk, Sprayable Thermop, 4 inch, Yellow	2280	Ft	
Pavt Mrgk, Sprayable Thermop, 6 inch, White	1520	Ft	

CITY OF FLINT  
1101 SOUTH SAGINAW STREET  
FLINT, MI 48502  
ATHERTON ROAD  
PAVEMENT MARKING AND SIGNING 9

ISSUED FOR:	DATE:	BY:
GI PLANS	10/25/18	JJS
FINAL REVIEW	2/25/19	JJS
FINAL PLANS	4/19/19	JJS

JOB NO.  
COF1065.01F

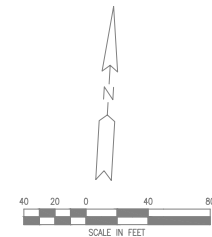
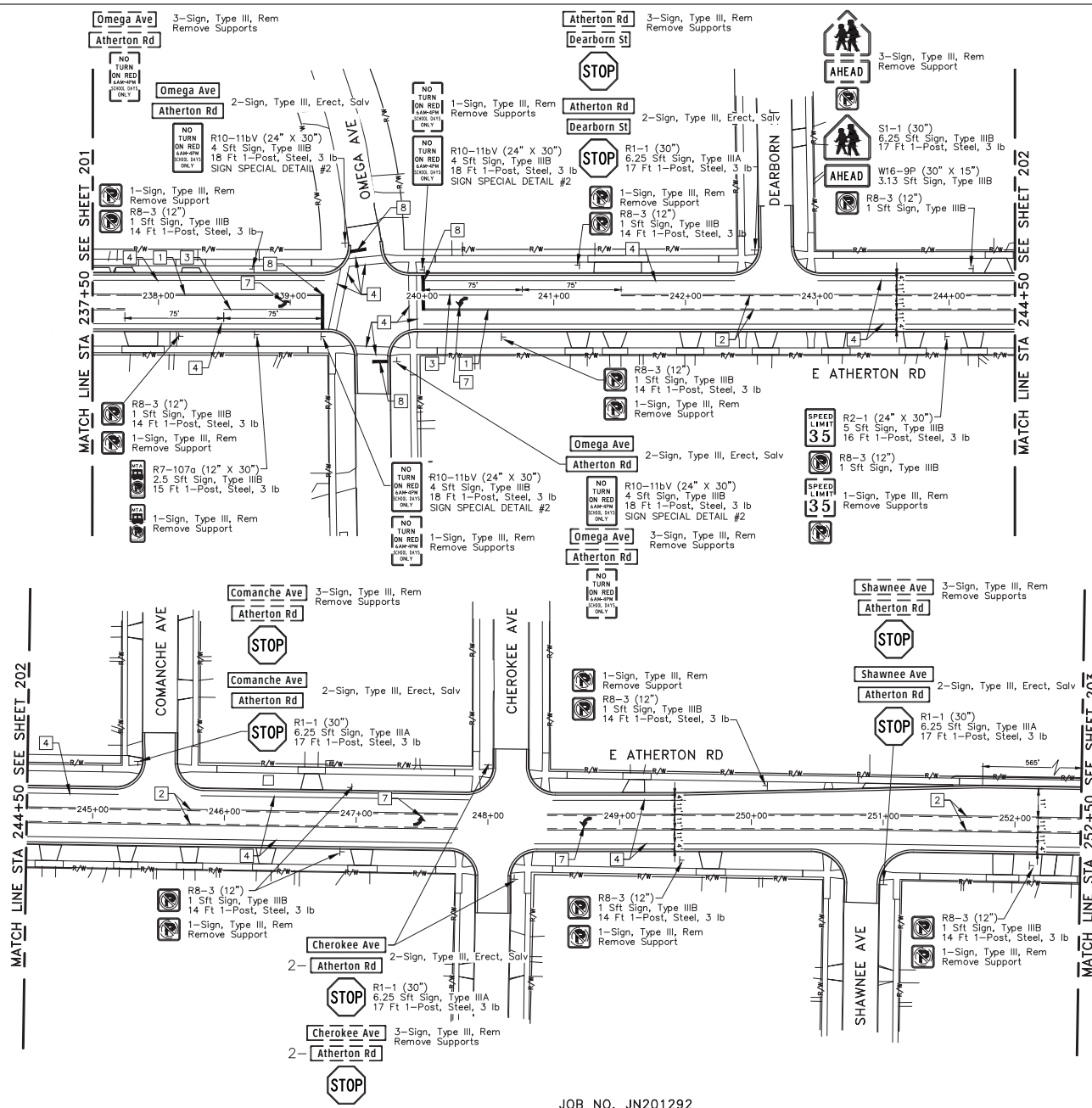
SHEET  
201

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Know what's below.  
Call before you dig.



- 1 4 INCH, YELLOW (DOUBLE SOLID)
- 2 4 INCH, YELLOW (SOLID & BROKEN)
- 3 4 INCH, WHITE (SOLID)
- 4 6 INCH, WHITE (SOLID)
- 5 12 INCH, YELLOW (SOLID, 45' 20' SPACE)
- 6 12 INCH, WHITE (SOLID, 45' 20' SPACE)
- 7 ONLY COLD PLASTIC, LT TURN ARROW
- 8 ONLY COLD PLASTIC, 24 INCH STOP BAR
- 9 ONLY COLD PLASTIC, THRU LT ARROW
- 10 ONLY COLD PLASTIC, RT TURN ARROW
- 11 4 INCH, WHITE (BROKEN)
- 12 4 INCH, YELLOW (BROKEN)

MAINLINE QUANTITIES - THIS SHEET		
	JN 201292	
	CAT 0001	
ITEM	QUANTITY	UNIT
Band, Sign		
Post, Steel, 3 lb	300	Ft
Sign, Type IIIA		Sft
Sign, Type III, Erect, Salv	14	Ea
Sign, Type III, Rem	33	Ea
Sign, Type IIIA	31.25	Sft
Sign, Type IIIB	42.88	Sft
Pavt Mrkg, Only Cold Plastic, 6 inch, Crosswalk	290	Ft
Pavt Mrkg, Only Cold Plastic, 12 inch, Cross		Ft
Hatching, Yellow		Ft
Pavt Mrkg, Only Cold Plastic, 24 inch, Stop Bar	52	Ft
Pavt Mrkg, Only Cold Plastic, Lt Turn Arrow Sym	4	Ea
Pavt Mrkg, Only Cold Plastic, Rt Turn Arrow Sym		Ea
Pavt Mrkg, Only Cold Plastic, Thru and Lt Turn Arrow Sym		Ea
Pavt Mrkg, Sprayable Thermopl, 4 inch, White	150	Ft
Pavt Mrkg, Sprayable Thermopl, 4 inch, Yellow	3215	Ft
Pavt Mrkg, Sprayable Thermopl, 6 inch, White	2290	Ft

CITY OF FLINT  
1101 SOUTH SAGINAW STREET  
FLINT, MI 48502  
ATHERTON ROAD  
PAVEMENT MARKING AND SIGNING 10

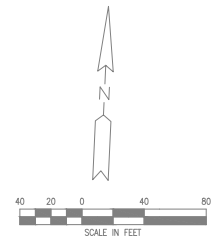
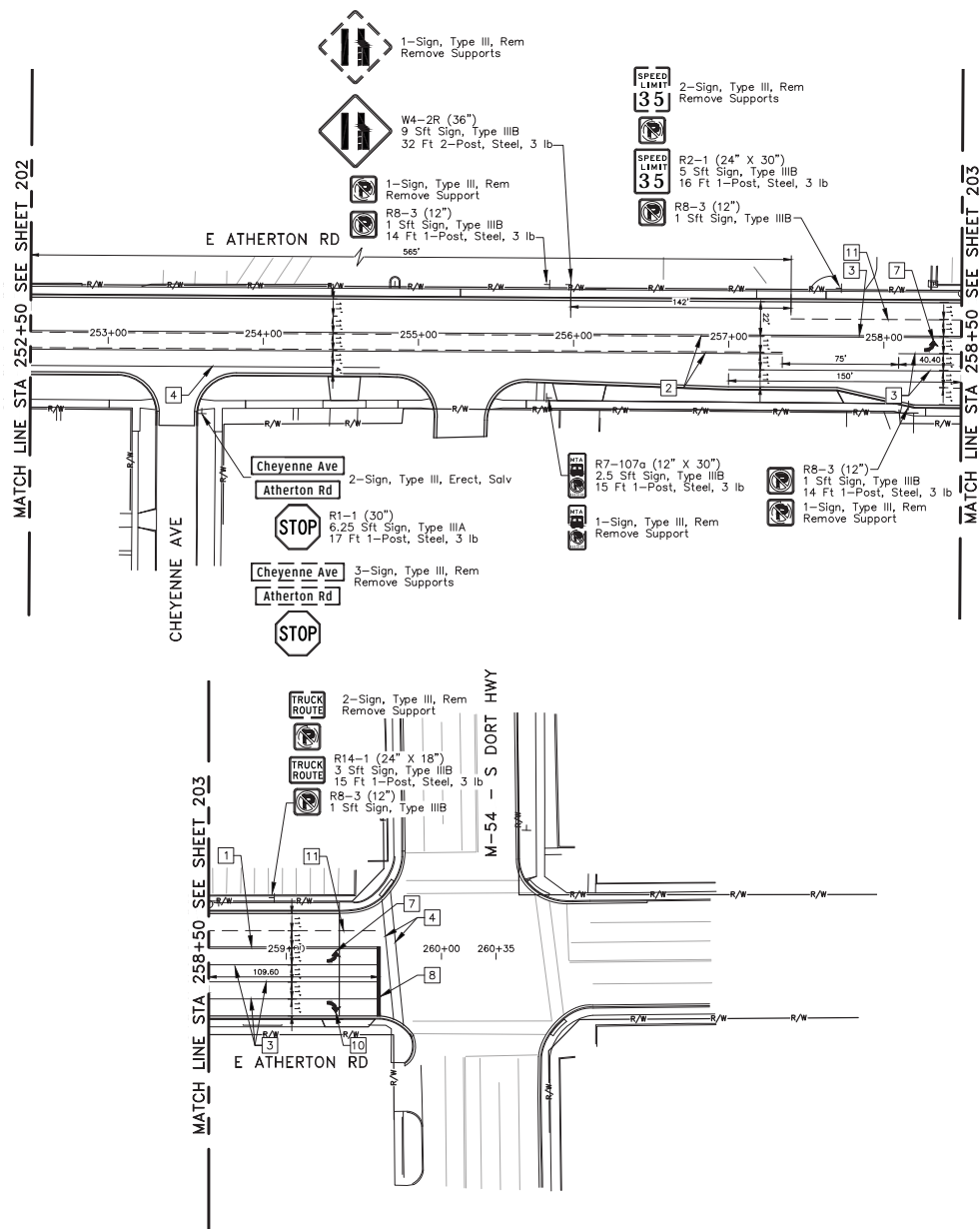
ISSUED FOR: DATE: BY:  
21 PLANS 10/25/18 JLS  
FINAL REVIEW 2/25/19 JLS  
FINAL PLANS 4/19/19 JLS

JOB NO.  
COF1065.01F

SHEET  
202



Know what's below.  
Call before you dig.



- 1 4 INCH, YELLOW (DOUBLE SOLID)
- 2 4 INCH, YELLOW (SOLID & BROKEN) (12.5' MARK, 37.5' GAP)
- 3 4 INCH, WHITE (SOLID)
- 4 6 INCH, WHITE (SOLID)
- 5 12 INCH, YELLOW (SOLID, 45' 20' SPACE)
- 6 12 INCH, WHITE (SOLID, 45' 20' SPACE)
- 7 ONLY COLD PLASTIC, LT TURN ARROW
- 8 ONLY COLD PLASTIC, 24 INCH STOP BAR
- 9 ONLY COLD PLASTIC, THRU LT ARROW
- 10 ONLY COLD PLASTIC, RT TURN ARROW
- 11 4 INCH, WHITE (BROKEN) (12.5' MARK, 37.5' GAP)
- 12 4 INCH, YELLOW (BROKEN) (12.5' MARK, 37.5' GAP)

MAINLINE QUANTITIES - THIS SHEET		
	JN 201292	
	CAT 0001	
ITEM	QUANTITY	UNIT
Band, Sign		Ea
Post, Steel, 3 lb	133	FL
Sign, Type IIIA		Sft
Sign, Type III, Erect, Salv	2	Ea
Sign, Type III, Rem	11	Ea
Sign, Type IIIA	6.25	Sft
Sign, Type IIIIB	18.5	Sft
Pavt Mrgk, Ovly Cold Plastic, 6 inch, Crosswalk	166	FL
Pavt Mrgk, Ovly Cold Plastic, 12 inch, Cross		FL
Hatching, White		
Pavt Mrgk, Ovly Cold Plastic, 12 inch, Cross		FL
Hatching, Yellow		
Pavt Mrgk, Ovly Cold Plastic, 24 inch, Stop Bar	44	FL
Pavt Mrgk, Ovly Cold Plastic, Lt Turn Arrow Sym	2	Ea
Pavt Mrgk, Ovly Cold Plastic, Rt Turn Arrow Sym	1	Ea
Pavt Mrgk, Ovly Cold Plastic, Thru and Lt Turn Arrow Sym		Ea
Pavt Mrgk, Sprayable Thermopl, 4 inch, White	575	FL
Pavt Mrgk, Sprayable Thermopl, 4 inch, Yellow	1665	FL
Pavt Mrgk, Sprayable Thermopl, 6 inch, White	225	FL

CITY OF FLINT  
1101 SOUTH SAGINAW STREET  
FLINT, MI 48502  
ATHERTON ROAD  
PAVEMENT MARKING AND SIGNING 11

ISSUED FOR: DATE: BY:  
21 PLANS 10/25/18 JLS  
FINAL REVIEW 2/25/19 JLS  
FINAL PLANS 4/19/19 JLS

JOB NO.  
C0F1065.01F

SHEET  
203

REV#	DATE	DESCRIPTION	BY

