# CITY OF FLINT
IN COOPERATION WITH
# MICHIGAN DEPARTMENT OF TRANSPORTATION
AND
# FEDERAL HIGHWAY ADMINISTRATION
PLAN AND PROFILE OF PROPOSED
# COURT STREET REHABILITATION

SECTION 8, 9, 16 & 17, T7N – R7E
CITY OF FLINT, GENESEE COUNTY
CONTROL SECTION NO. – STU 25000
JOB NO. – 130647

| COUNTY | CITY | PROJ. | YEAR | SHEET | TOTAL |
|---|---|---|---|---|---|
| GENESEE | FLINT | 18C0137 | 2019 | 1 | 100 |

## MDOT STANDARD ROAD PLANS

| | |
|---|---|
| *R-1-G | DRAINAGE STRUCTURES |
| *R-28-J | SIDEWALK RAMP AND DETECTABLE WARNING DETAILS |
| R-29-I | DRIVEWAY OPENINGS & APPROACHES, AND CONCRETE SIDEWALKS |
| R-30-G | CONCRETE CURB AND CONCRETE CURB & GUTTER |
| R-44-F | CONCRETE PAVEMENT REPAIR |
| R-74-D | BUMPER & PARKING RAILS AND MISC. WOOD POST |
| R-80-E | GRANULAR BLAKET, UNDERDRAINS, OUTLET ENDINGS FOR UNDERDRAINS |
| R-83-C | UTILITY TRENCHES |
| R-96-E | SOIL EROSION & SEDIMENTATION CONTROL MEASURES |

## TRAFFIC AND SAFETY STANDARD PLANS

| | |
|---|---|
| *WZD-100-A | GROUND DRIVEN SIGN SUPPORTS FOR TEMPORARY SIGNS |
| *WZD-125-E | TEMPORARY TRAFFIC CONTROL DEVICES |

*DENOTES SPECIAL DETAIL
SPECIAL DETAILS ARE INCLUDED IN THE PROPOSAL

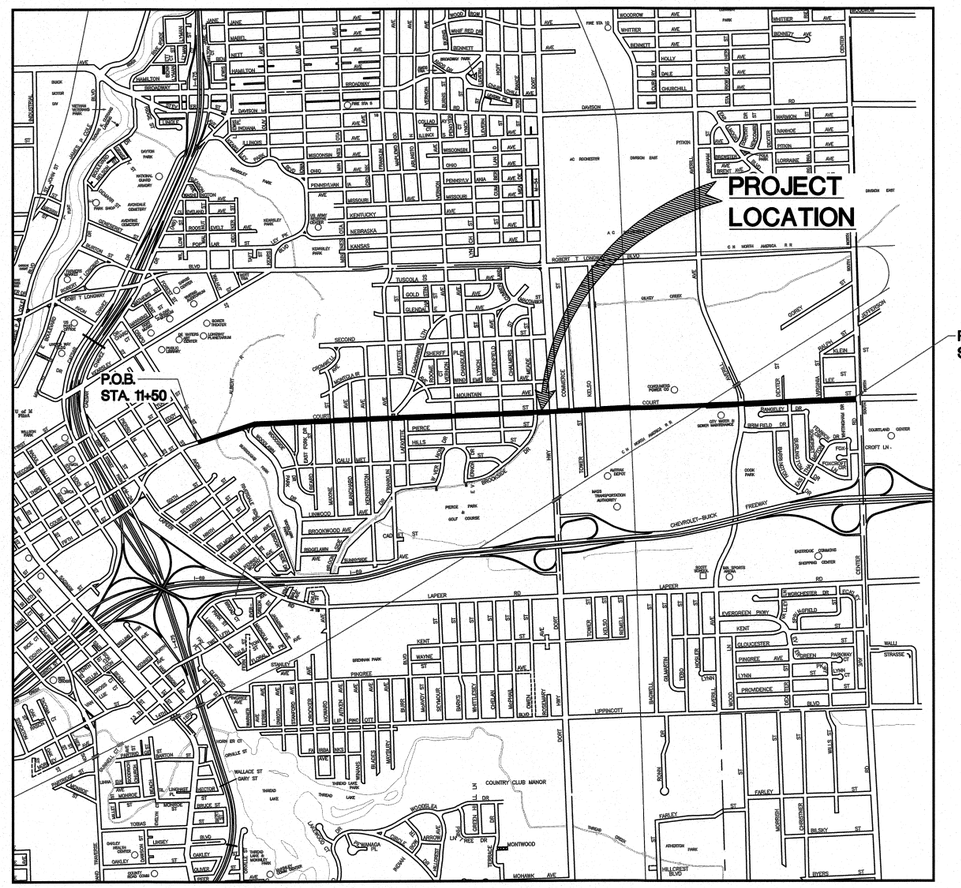
## TRAFFIC DATA - COURT STREET

ESTIMATED 2019 AVERAGE DAILY TRAFFIC = 11,114
ESTIMATED 2039 AVERAGE DAILY TRAFFIC = 13,561
ESTIMATED COMMERCIAL = 5%
POSTED SPEED = 25 MPH CRAPO TO DORT AND 40 MPH DORT TO CENTER
DESIGNED SPEED = 25 MPH CRAPO TO DORT AND 40 MPH DORT TO CENTER
STA. = 11+50 P.O.E. STA. = 124+28
PROJECT LENGTH = 11,278 FT/ 2.14 MILES

## UTILITIES AND MUNICIPALITIES

THE EXISTING UTILITIES LISTED BELOW AND SHOWN ON THESE PLANS REPRESENT THE BEST INFORMATION AVAILABLE AS OBTAINED FROM THE UTILITY OWNERS. THIS INFORMATION DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO BE SATISFIED AS TO ITS ACCURACY AND THE LOCATION OF EXISTING UTILITIES.

| NAME OF OWNER | CONTACT | TYPE OF UTILITY |
|---|---|---|
| AT&T<br>54 N. MILL STREET, P.O. BOX 32<br>PONTIAC, MICHIGAN 48342 | JEFF HEATH<br>(313) 263-9939 | TELEPHONE |
| CITY OF FLINT WATER SERVICE CENTER<br>3310 E. COURT STREET<br>FLINT, MICHIGAN 48506 | ROB BINCSIK<br>ROB SMITH<br>(810) 766-7202 | WATER<br>SEWER |
| CITY OF FLINT TRANSPORTATION<br>1101 S. SAGINAW STREET<br>FLINT, MICHIGAN 48502 | BETTY WIDEMAN<br>(810) 766-7165<br>ROD McGAHA<br>(810) 691-3106 | ROADS/TRANSPORATATION |
| CITY OF FLINT TRAFFIC ENGINEERING<br>1101 S. SAGINAW STREET<br>FLINT, MI 48502 | SHERI TOLBERT<br>(810) 766-7350 | TRAFFIC SIGNALS |
| CONSUMERS ENERGY<br>3201 E. COURT STREET<br>FLINT, MICHIGAN 48506 | MATHEW COX<br>(810) 760-3486 | NATURAL GAS |
| CONSUMERS ENERGY<br>1801 W. MAIN ST.<br>OWOSSO, MICHIGAN 48867 | TRACY MAHAR<br>(989) 729-3250 | ELECTRIC |
| COMCAST CABLEVISION<br>25626 TELEGRAPH ROAD<br>SOUTHFIELD, MICHIGAN 48033 | CHRIS CYR<br>(248) 809-2717 | CABLE T.V. |
| FLINT COMMUNITY SCHOOLS<br>923 EAST KEARSLEY STREET<br>FLINT, MICHIGAN 48503 | LARRY WATKINS<br>(810) 760-1249 | SCHOOL BUS ROUTES |
| GENESEE COUNTY DRAIN COMMISSIONER<br>DIVISION OF SURFACE WATER MANAGEMENT<br>G-4610 BEECHER ROAD<br>FLINT, MICHIGAN 48502 | ENAYET ULLAH<br>(810) 732-1590 | COUNTY DRAINS |
| MICHIGAN DEPARTMENT OF TRANSPORTATION<br>BAY REGION TRAFFIC, SAFETY & OPERATIONS<br>5859 SHERMAN ROAD<br>SAGINAW, MICHIGAN 48604 | TRAVIS PHILLIPS<br>(989) 223-7363 | MDOT SIGNALS |
| MOTT COMMUNITY COLLEGE<br>C/O FIBERLINK<br>3529 W. GENESEE, SUITE 6<br>LAPEER, MICHIGAN 48446 | TINA SNOBLEN<br>(810) 591-4400 | MOTT FIBER |
| MASS TRANSPORTATION AUTHORITY<br>1401 SOUTH DORT HIGHWAY<br>FLINT, MICHIGAN 48503 | EDGAR BENNING<br>(810) 767-6950 | BUS ROUTES |
| MIDWEST FIBER NETWORKS, LLC<br>3701 W BURNHAM STREET<br>MILWAUKEE, WI 53215 | RICHARD TRGOVEC<br>(414) 672-5612<br>EMERGENCY<br>(866) 831-1661 | FIBER OPTIC |
| SIGMA NETWORK SERVICES<br>27096 OAKMEAD DRIVE<br>PERRYSBURG, OH 43551 | NICK STAMPER<br>(419) 874-9252 #208 | TELCOM |
| SPECTRUM BROADBAND, LLC<br>C/O LIGHTSPEED COMMUNICATION<br>4942 DAWN AVE<br>EAST LANSING, MICHIGAN 48823 | EDWARD REIMANN<br>(517) 899-2506 | FIBER OPTIC |




CITY OF FLINT
GENESEE, MICHIGAN

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

| PLAN SUBMITTALS AND CHANGES | |
|---|---|
| BIDDING DOCUMENTS | |
| DATE. | DESCRIPTION |
| 12/21/2018 | ISSUED FOR BIDS |

## GENERAL NOTES

THE PROPOSED IMPROVEMENTS COVERED BY THESE PLANS SHALL BE DONE IN ACCORDANCE WITH THE MICHIGAN DEPARTMENT OF TRANSPORTATION 2012 STANDARD SPECIFICATIONS FOR CONSTRUCTION, THE LATEST MDOT STANDARD ROAD PLANS, AND IN ACCORDANCE WITH MDOT LOCAL AGENCY PROGRAMS GUIDELINES FOR GEOMETRICS ON MICHIGAN DEPARTMENT OF TRANSPORTATION 3R GUIDELINES.

THE PLACEMENT OF PAVEMENT MARKINGS AND TRAFFIC CONTROL DEVICES SHALL BE DONE IN ACCORDANCE WITH THE MICHIGAN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, 2011.

FOR THE PROTECTION OF UNDERGROUND UTILITIES, THE CONTRACTOR SHALL CALL "MISS DIG" AT 1-800-482-7171 OR DIAL 811 OR ONLINE AT WWW.MISSDIG.ORG A MINIMUM OF 3 WORKING DAYS EXCLUDING WEEKENDS AND HOLIDAYS PRIOR TO EXCAVATING IN THE VICINITY OF UTILITY LINES. ALL "MISS DIG" PARTICIPATING MEMBERS WILL THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

EXISTING UTILITIES HAVE NOT BEEN EXPOSED FOR VERIFICATION OF LOCATION AND ELEVATIONS. THE CONTRACTOR SHALL EXCAVATE, LOCATE, AND VERIFY DEPTH OF ANY EXISTING UTILITIES PRIOR TO CONSTRUCTION.

FOR ALL CONSTRUCTION ACTIVITY THAT DISTURBS 5 ACRES OR MORE OF LAND THE OWNER OF THE PROPERTY SHALL OBTAIN AN NPDES STORM WATER DISCHARGE PERMIT FOR CONSTRUCTION ACTIVITIES FROM THE MDEQ AS REQUIRED UNDER P.A. 245. THE DISTURBED AREA FOR THIS PROJECT IS APPROXIMATELY 7.9 ACRES. A NPDES PERMIT IS REQUIRED FOR THIS PROJECT.

## SHEET INDEX


1 –COVER SHEET
2–3 –CONTROL SHEETS
4 –LEGEND SHEET
5 –GENERAL NOTES & PROJECT QUANTITIES SHEET
6–9 –TYPICAL ROAD CROSS SECTIONS
10 –CITY OF FLINT CASTING DETAILS SHEET
11 –CITY OF FLINT WATER MAIN DETAILS SHEET
12 –MISCELLANEOUS ROAD AND PAVING DETAILS SHEET
13 –MISCELLANOUS UTILITY DETAILS SHEET
14–21 –REMOVAL SHEETS
22–51 –ROAD AND STORM SEWER PLAN AND PROFILE SHEETS
52–62 –INTERSECTION GRADING SHEETS
63–80 –WATER MAIN PLAN AND PROFILE SHEETS
81–90 –WATER MAIN CONNECTION PLAN AND PROFILES
91–98 –PAVEMENT MARKING AND SIGNING SHEETS
99 –STAGE 1 DETOUR PLAN
100 –STAGE 2 DETOUR PLAN


CONTRACT FOR:

2.14 MILES OF PROPOSED COURT STREET REHABILITATION WITH COLD MILLING HMA AND CONCRETE SURFACE, JOINT REPAIRS, PAVEMENT REPAIRS, HMA PAVING, WATER MAIN, CONCRETE CURB AND GUTTER REPLACEMENT, ADA SIDEWALK RAMP UPGRADES, PAVEMENT MARKINGS, AND PERMANENT SIGNS

CITY OF FLINT

MARK ADAS – CITY ENGINEER — DATE 12/21/18

PREPARED UNDER SUPERVISION OF

STATE OF MICHIGAN JILL M. BAUER ENGINEER No. 56023 PROFESSIONAL ENGINEER

12/20/18


JILL BAUER, P.E. — REGISTRATION NO. 56023
REGISTERED PROFESSIONAL ENGINEER

ROWE PROFESSIONAL SERVICES COMPANY
ORGANIZATION

540 S. SAGINAW STREET, STE. 200 FLINT, MI 48502
ADDRESS

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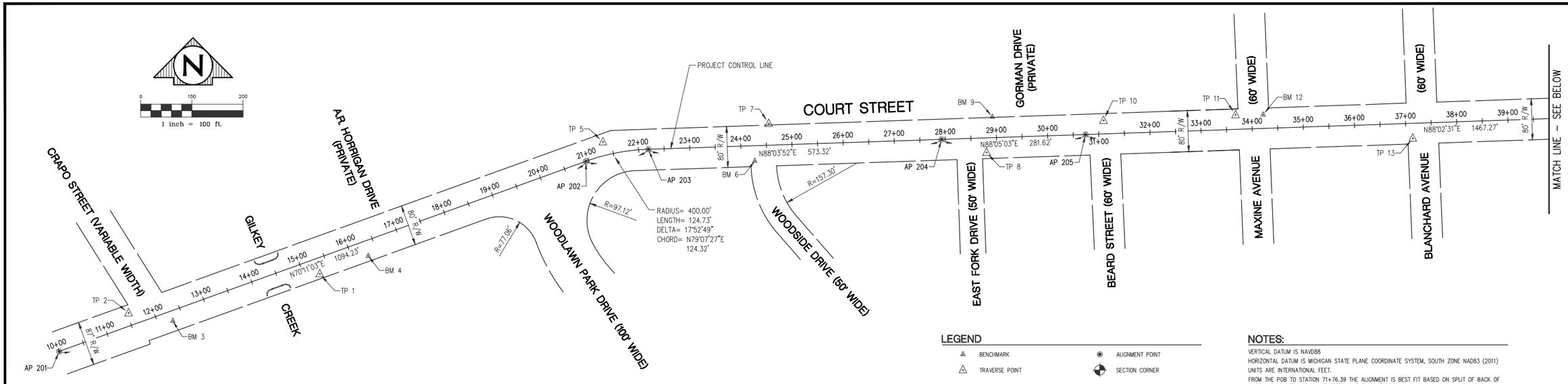


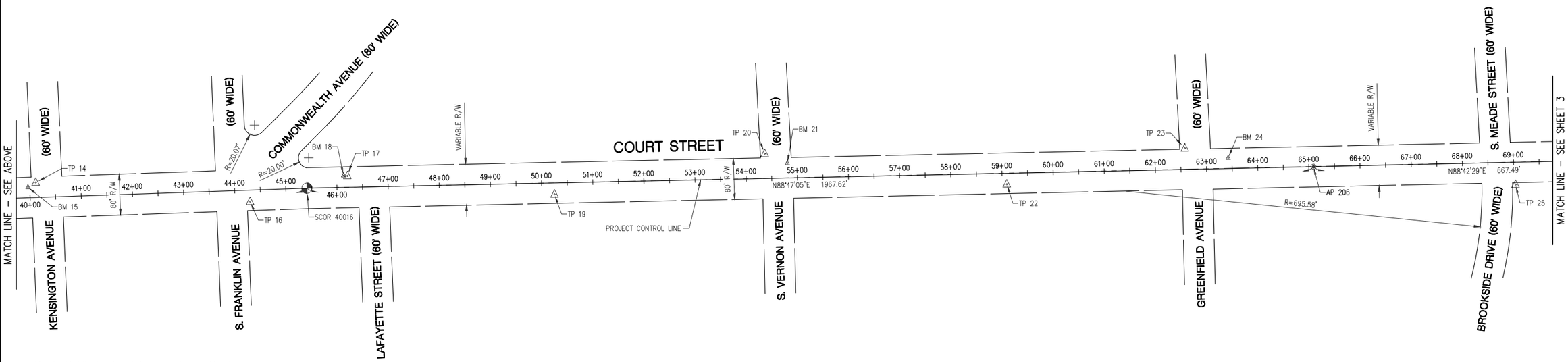


## LEGEND

- BENCHMARK
- TRAVERSE POINT
- ALIGNMENT POINT
- SECTION CORNER

## NOTES:

VERTICAL DATUM IS NAVD88

HORIZONTAL DATUM IS MICHIGAN STATE PLANE COORDINATE SYSTEM, SOUTH ZONE NAD83 (2011)

UNITS ARE INTERNATIONAL FEET.

FROM THE POB TO STATION 71+76.39 THE ALIGNMENT IS BEST FIT BASED ON SPLIT OF BACK OF CURB AND IS NOT ALWAYS CENTERED IN THE RIGHT OF WAY.

## COURT STREET REHABILITATION ALIGNMENT

### BENCHMARK DATA TABLE

| NUMBER | NORTHING | EASTING | ELEVATION | STATION | OFFSET | DESCRIPTION |
|---|---|---|---|---|---|---|
| BM 3 | 553694 | 13307875 | 733.88 | 12+29.22 | 19.43' RT | SET RAILROAD SPIKE IN NORTH FACE OF WOOD LIGHT POLE ON THE SOUTH SIDE OF COURT STREET, 10'± EAST OF CRAPO STREET |
| BM 4 | 553820 | 13308257 | 732.56 | 16+31.58 | 29.79' RT | SET BLACK MARKER "X" ON TOP OF NORTHWESTERLY METAL STRAIN POLE BOLT ON THE SOUTH SIDE OF COURT STREET WEST OF A.R. HORRIGAN DRIVE |
| BM 6 | 554006 | 13309012 | 748.43 | 24+26.20 | 29.75' RT | SET RAILROAD SPIKE IN NORTH FACE OF WOOD LIGHT POLE IN THE SOUTHWEST QUADRANT OF COURT STREET & WOODSIDE DRIVE |
| BM 9 | 554092 | 13309476 | 751.32 | 28+93.12 | 40.48' LT | SET CHISELED SQUARE ON SOUTH SIDE OF CONCRETE BASE OF METAL LIGHT POLE ON THE NORTH SIDE OF COURT STREET WEST OF GORMAN DRIVE |
| BM 12 | 554096 | 13310006 | 754.37 | 34+22.36 | 26.76' LT | SET RAILROAD SPIKE IN SOUTH FACE OF WOOD TRAFFIC SIGNAL POLE IN THE NORTHEAST QUADRANT OF MAXINE STREET & COURT STREET |
| BM 15 | 554109 | 13310580 | 752.80 | 39+96.48 | 20.27' LT | SET RAILROAD SPIKE IN SOUTH FACE OF WOOD POLE IN THE NORTHWEST QUADRANT OF KENSINGTON AVENUE & COURT STREET |
| BM 18 | 554132 | 13311197 | 754.96 | 46+13.31 | 23.29' LT | SET RAILROAD SPIKE IN SOUTH FACE OF WOOD POLE ON THE NORTH SIDE COURT STREET WEST LAFAYETTE STREET |
| BM 21 | 554156 | 13312064 | 753.62 | 54+80.90 | 28.52' LT | SET RAILROAD SPIKE IN SOUTH FACE OF WOOD PWER/LIGHT POLE IN THE NORTHEAST QUADRANT OF VERNON AVENUE & COURT STREET |
| BM 24 | 554167 | 13312926 | 749.69 | 63+42.61 | 20.76' LT | SET RAILROAD SPIKE IN WOOD POLE ON THE NORTH SIDE OF COURT STREET WEST OF DRIVE TO HOUSE #2505 |

### TRAVERSE POINT DATA TABLE

| NUMBER | NORTHING | EASTING | STATION | OFFSET | DESCRIPTION |
|---|---|---|---|---|---|
| TP 1 | 553785.3740 | 13308162.0730 | 15+30.49 | 30.56' RT | SET ROD WITH ROWE TRAVERSE CAP, 150'± WEST OF CENTERLINE OF A.R. HORRIGAN DRIVE & 3.5'± SOUTH OF BACK OF WALK OF COURT STREET |
| TP 2 | 553709.0970 | 13307788.2120 | 11+52.91 | 24.42' LT | SET ROD WITH ROWE TRAVERSE CAP, 5.5'± NORTH OF BACK OF CURB OF COURT STREET & 50'± WEST OF CENTERLINE OF CRAPO STREET |
| TP 5 | 554042.8750 | 13308715.3640 | 21+35.65 | 26.42' LT | SET ROD WITH ROWE TRAVERSE CAP, 7'± NORTH OF BACK OF CURB OF COURT STREET & 4'± WEST OF CENTERLINE OF 8' WIDE SIDEWALK LEADING TO MOTT MEMORIAL BUILDING |
| TP 7 | 554078.6560 | 13309039.3760 | 24+55.83 | 42.00' LT | SET ROD WITH ROWE TRAVERSE CAP, 3.5'± NORTH OF BACK OF WALK OF COURT & 12'± EAST OF CENTERLINE OF WOODSIDE DRIVE |
| TP 8 | 554022.4010 | 13309465.3810 | 28+79.70 | 28.59' RT | SET ROD WITH ROWE TRAVERSE CAP, 9'± SOUTH OF BACK OF CURB OF COURT STREET & 30'± EAST OF CENTERLINE OF EAST FORK DRIVE |
| TP 10 | 554084.6620 | 13309693.8980 | 31+10.19 | 25.97' LT | SET ROD WITH ROWE TRAVERSE CAP, 6'± NORTH OF BACK OF CURB OF COURT STREET & AT CENTERLINE OF BEARD STREET EXTENDED |
| TP 11 | 554095.6050 | 13309952.0400 | 33+68.55 | 28.09' LT | SET ROD WITH ROWE TRAVERSE CAP, 10'± NORTH OF BACK OF CURB OF COURT STREET & 30'± WEST OF CENTERLINE OF MAXINE STREET |
| TP 13 | 554049.9790 | 13310298.3310 | 37+13.08 | 29.34' RT | SET ROD WITH ROWE TRAVERSE CAP, 10'± SOUTH OF BACK OF CURB OF COURT STREET & 17'± WEST OF CENTERLINE OF BLANCHARD AVENUE |
| TP 14 | 554118.7160 | 13310595.0170 | 40+11.94 | 29.22' LT | SET ROD WITH ROWE TRAVERSE CAP, 7'± NORTH OF BACK OF CURB OF COURT STREET & 21'± WEST OF CENTERLINE OF KENSINGTON AVENUE |
| TP 16 | 554081.3130 | 13311013.9070 | 44+29.31 | 22.47' RT | SET ROD WITH ROWE TRAVERSE CAP, 4'± SOUTH OF BACK OF CURB OF COURT STREET & 36'± EAST OF CENTERLINE OF FRANKLIN STREET |
| TP 17 | 554131.5910 | 13311204.0430 | 46+20.77 | 22.31' LT | SET ROD WITH ROWE TRAVERSE CAP, 3.5'± NORTH OF BACK OF CURB OF COURT STREET & 47.5'± WEST OF CENTERLINE OF LAFAYETTE STREET EXTENDED |
| TP 19 | 554095.6210 | 13311608.8640 | 50+24.74 | 22.24' RT | SET ROD WITH ROWE TRAVERSE CAP, 3'± SOUTH OF BACK OF CURB OF COURT STREET & 33'± WEST OF CENTERLINE OF DRIVE TO HOUSE #2030 COURT STREET |
| TP 20 | 554174.9900 | 13312019.7800 | 54+37.24 | 48.40' LT | SET ROD WITH ROWE TRAVERSE CAP, 7'± NORTH OF BACK OF WALK OF COURT STREET & 17'± WEST OF CENTERLINE OF VERNON AVENUE |
| TP 22 | 554115.2500 | 13312492.8140 | 59+08.91 | 21.36' RT | SET ROD WITH ROWE TRAVERSE CAP, 3'± SOUTH OF BACK OF CURB OF COURT STREET & 25'± WEST OF CENTERLINE OF DRIVE TO HOUSE #2310 |
| TP 23 | 554185.7080 | 13312840.8550 | 62+58.36 | 41.70' LT | SET ROD WITH ROWE TRAVERSE CAP, 2.5'± NORTH OF BACK OF WALK OF COURT STREET & 18'± WEST OF CENTERLINE OF GREENFIELD AVENUE |
| TP 25 | 554114.4810 | 13313487.1500 | 69+02.94 | 43.75' RT | SET ROD WITH ROWE TRAVERSE CAP, 5'± SOUTH OF BACK OF WALK OF COURT STREET & 33'± EAST OF CENTERLINE OF BROOKSIDE DRIVE |

### ALIGNMENT POINT DATA TABLE

| NUMBER | NORTHING | EASTING | STATION | OFFSET | DESCRIPTION |
|---|---|---|---|---|---|
| AP 201 | 553634.2873 | 13307652.6361 | 10+00.00 | 0.00' RT | POINT OF BEGINNING OF COURT STREET ALIGNMENT |
| AP 202 | 554005.2294 | 13308682.0721 | 20+94.23 | 0.00' RT | POINT OF CURVATURE OF COURT STREET ALIGNMENT |
| AP 203 | 554028.6864 | 13308804.1608 | 22+19.06 | 0.00' RT | POINT OF TANGENCY OF COURT STREET ALIGNMENT |
| AP 204 | 554048.0515 | 13309377.1584 | 27+92.38 | 0.00' RT | POINT OF INTERSECTION OF COURT STREET ALIGNMENT |
| AP 205 | 554057.4662 | 13309658.6259 | 30+74.01 | 0.00' RT | POINT OF INTERSECTION OF COURT STREET ALIGNMENT |
| AP 206 | 554149.3330 | 13313092.2208 | 65+08.90 | 0.00' RT | POINT OF INTERSECTION OF COURT STREET ALIGNMENT |

### SECTION CORNER DATA TABLE

| NUMBER | NORTHING | EASTING | STATION | OFFSET | DESCRIPTION |
|---|---|---|---|---|---|
| SCOR 40016 | 554107.5970 | 13311125.0400 | 45+41.28 | 0.00' RT | D-5, 1/4 CORNER COMMON TO SECTIONS 8 & 17,T7N-R7E CITY OF FLINT, GENESEE COUNTY, FOUND REMON MONUMENT IN MONUMENT BOX |

Know what's **below.**
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**PLAN SUBMITTALS AND CHANGES**

BIDDING DOCUMENTS

| DATE | DESCRIPTION |
|---|---|
| 6/5/2019 | ISSUED FOR BIDS |

PLAN DATE: JUNE 2019
PROJECT MGR: JMB
REVIEWER: JJF
SCALE: 1" = 100'

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

PREPARED FOR
# CITY OF FLINT
# COURT STREET REHABILITATION
STA. 10+00 TO STA. 69+50
CONTROL SHEET

REV:

SHT# 2 OF 100

JOB No: 18C0137

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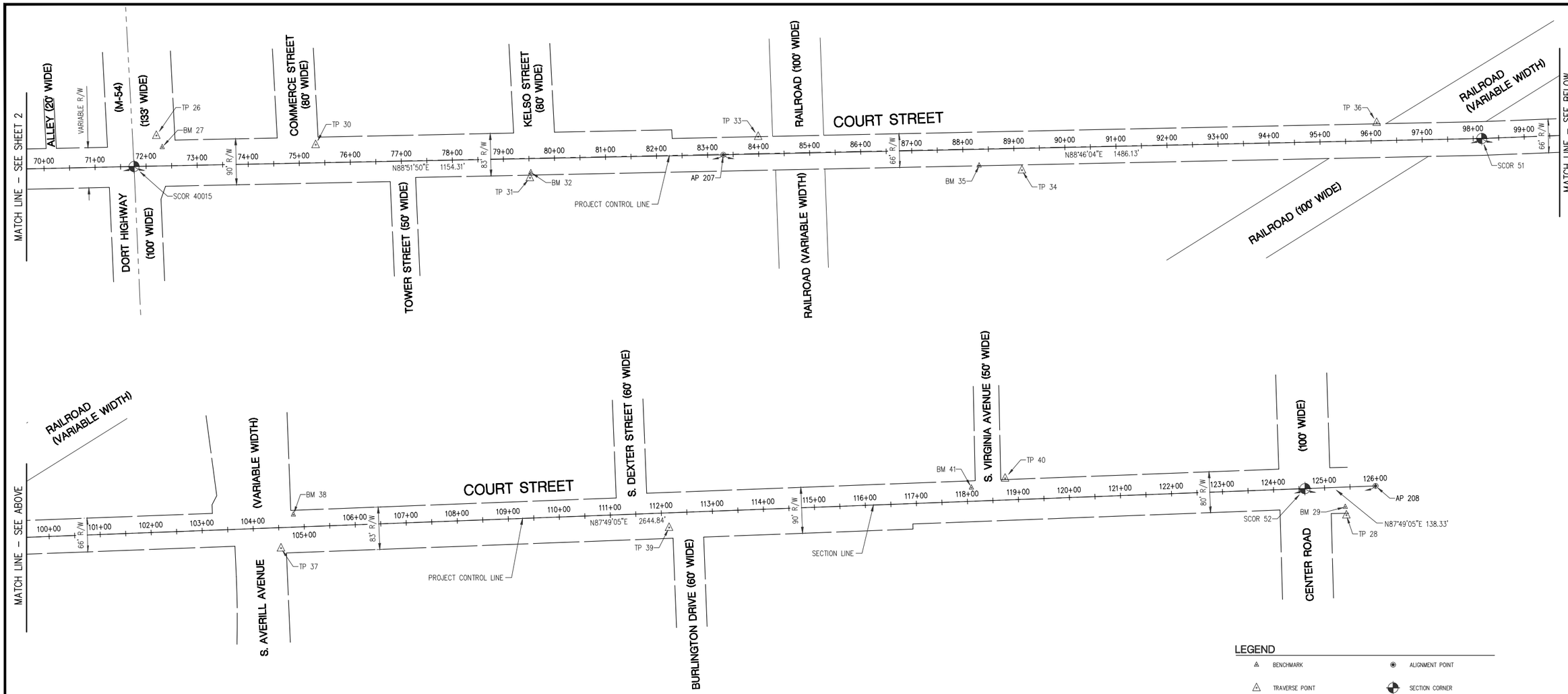





## COURT STREET ALIGNMENT

### BENCHMARK DATA TABLE

| NUMBER | NORTHING | EASTING | ELEVATION | STATION | OFFSET | DESCRIPTION |
|---|---|---|---|---|---|---|
| BM 27 | 554202 | 13313815 | 747.18 | 72+32.25 | 36.63' LT | SET RAILROAD SPIKE IN NORTH FACE OF NEW WOOD POLE IN THE NORTHEAST QUADRANT OF DORT HIGHWAY & COURT STREET |
| BM 29 | 554284 | 13319121 | 767.95 | 125+39.08 | 39.03' RT | SET BLACK MARKER "X" ON SOUTHWESTERLY BOLT ON METAL STRAIN POLE IN THE SOUTHEAST QUADRANT OF CENTER ROAD & COURT STREET |
| BM 32 | 554153 | 13314537 | 751.20 | 79+53.15 | 26.85' RT | SET RAILROAD SPIKE IN SOUTH FACE OF WOOD POWER POLE ON THE SOUTH SIDE OF COURT STREET ACROSS FROM KELSO STREET |
| BM 35 | 554166 | 13315415 | 759.90 | 88+31.38 | 32.01' RT | FOUND RAILROAD SPIKE IN NORTHEAST FACE OF WOOD UTILITY POLE ON THE SOUTH SIDE OF COURT STREET ACROSS FROM CONSUMERS ENERGY EMPLOYEE & VISITOR PARKING ENTRANCE |
| BM 38 | 554269 | 13317061 | 757.37 | 104+79.64 | 24.49' LT | SET RAILROAD SPIKE IN SOUTH FACE OF WOOD LIGHT POLE IN THE NORTHEAST QUADRANT OF AVERILL AVENUE & COURT STREET |
| BM 41 | 554322 | 13318389 | 764.08 | 118+08.82 | 26.69' LT | SET RAILROAD SPIKE IN SOUTH FACE OF WOOD LIGHT POLE IN THE NORTHWEST QUADRANT OF VIRGINIA STREET & COURT STREET |

### TRAVERSE POINT DATA TABLE

| NUMBER | NORTHING | EASTING | STATION | OFFSET | DESCRIPTION |
|---|---|---|---|---|---|
| TP 26 | 554224.8930 | 13313803.2640 | 72+21.30 | 59.63' LT | FOUND 5/8" ROD WITH ROWE TRAVERSE CAP, 30'± NORTH OF BACK OF CURB OF COURT STREET & 12'± EAST OF BACK OF CURB OF DORT HIGHWAY |
| TP 28 | 554267.8950 | 13319123.3470 | 125+40.64 | 55.08' RT | SET ROD WITH ROWE TRAVERSE CAP, 3.5'± SOUTH OF BACK OF WALK OF COURT STREET & 32'± EAST OF BACK OF WALK OF CENTER ROAD |
| TP 30 | 554206.9040 | 13314115.2250 | 75+32.85 | 35.46' LT | SET ROD WITH ROWE TRAVERSE CAP, 7'± NORTH OF BACK OF CURB OF COURT STREET & 32'± EAST OF CENTERLINE OF COMMERCE STREET |
| TP 31 | 554142.1430 | 13314534.8340 | 79+51.09 | 37.61' RT | SET ROD WITH ROWE TRAVERSE CAP, 5'± SOUTH OF BACK OF WALK OF COURT STREET & 10'± WEST OF CENTERLINE OF KELSO STREET EXTENDED |
| TP 33 | 554222.9240 | 13314982.0260 | 83+99.85 | 34.17' LT | SET ROD WITH ROWE TRAVERSE CAP, 9'± NORTH OF BACK OF CURB OF COURT STREET & 68'± WEST OF CENTERLINE OF RAILROAD TRACKS |
| TP 34 | 554157.1350 | 13315498.6690 | 89+14.96 | 42.71' RT | SET ROD WITH ROWE TRAVERSE CAP, 10'± SOUTH OF BACK OF WALK OF COURT STREET & 15'± WEST OF CENTERLINE OF WESTERLY ENTRANCE TO FLINT CLEANING SUPPLY |
| TP 36 | 554250.3690 | 13316193.4630 | 96+11.60 | 35.56' LT | SET ROD WITH ROWE TRAVERSE CAP, 3'± NORTH OF BACK OF WALK OF COURT STREET & 110'± EAST OF CONSUMERS ENERGY FREIGHT DELIVERY ENTRANCE |
| TP 37 | 554203.1730 | 13317036.5010 | 104+52.85 | 40.30' RT | SET ROD WITH ROWE TRAVERSE CAP, 16'± SOUTH OF BACK OF CURB OF COURT STREET & 15'± EAST OF BACK OF CURB OF AVERILL AVENUE |
| TP 39 | 554243.5680 | 13317796.8020 | 112+14.14 | 28.88' RT | SET ROD WITH ROWE TRAVERSE CAP, 6'± SOUTH OF BACK OF CURB OF COURT STREET & 36'± WEST OF CENTERLINE OF BURLINGTON DRIVE |
| TP 40 | 554339.9330 | 13318454.8340 | 118+75.36 | 42.36' LT | SET ROD WITH ROWE TRAVERSE CAP, 3'± NORTH OF BACK OF WALK OF COURT STREET & 31'± EAST OF CENTERLINE OF VIRGINIA STREET |

### ALIGNMENT POINT DATA TABLE

| NUMBER | NORTHING | EASTING | STATION | OFFSET | DESCRIPTION |
|---|---|---|---|---|---|
| AP 207 | 554187.2706 | 13314913.6258 | 83+30.70 | 0.00' RT | POINT OF INTERSECTION OF COURT STREET ALIGNMENT |
| AP 208 | 554325.1906 | 13319180.5577 | 126+00.00 | 0.00' RT | POINT OF ENDING OF COURT STREET ALIGNMENT |

### SECTION CORNER DATA TABLE

| NUMBER | NORTHING | EASTING | STATION | OFFSET | DESCRIPTION |
|---|---|---|---|---|---|
| SCOR 51 | 554219.2280 | 13316399.4090 | 98+16.83 | 0.00' RT | F–5, 1/4 CORNER COMMON TO SECTIONS 9 & 16, T7N–R7E, CITY OF FLINT, GENESEE COUNTY, FOUND REMON MONUMENT IN MONUMENT BOX |
| SCOR 52 | 554319.9240 | 13319042.3280 | 124+61.67 | 0.00' RT | G–5, SECTION CORNER COMMON TO SECTIONS 9, 10, 15 & 16, T7N–R7E, CITY OF FLINT, GENESEE COUNTY, FOUND REMON MONUMENT IN MONUMENT BOX |
| SCOR 40015 | 554164.3840 | 13313759.5430 | 71+76.39 | 0.00' RT | E–5, SECTION CORNER COMMON TO SECTIONS 8, 9, 16 & 17, T7N–R7E, CITY OF FLINT, GENESEE COUNTY, FOUND REMON MONUMENT IN MONUMENT BOX |

## LEGEND

- BENCHMARK
- ALIGNMENT POINT
- TRAVERSE POINT
- SECTION CORNER

## NOTES:

VERTICAL DATUM IS NAVD88

HORIZONTAL DATUM IS MICHIGAN STATE PLANE COORDINATE SYSTEM, SOUTH ZONE NAD83 (2011)

UNITS ARE INTERNATIONAL FEET.

FROM STATION 71+76.39 TO STATION 98+16.83 THE ALIGNMENT IS THE BEST FIT SPLIT OF THE BACK OF CURBS AND IS NOT CENTERED IN THE RIGHT OF WAY. FROM STATION 98+16.93 TO STATION 124+61.67 THE ALIGNMENT IS ON THE SECTION LINE.

N

0 100 200

1 inch = 100 ft.

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: JJF
SCALE: 1" = 100'

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

PREPARED FOR
# CITY OF FLINT
# COURT STREET REHABILITATION
STA. 69+50 TO STA. 126+00
CONTROL SHEET

REV:

SHT# 3 OF 100

JOB No: 18C0137

R:\Projects\18C0137\Dwg\Construction Drawings\XX-18C0137-CONTROL.dwg
PLOTTED: 6/6/2019 8:36 AM

## STRUCTURE SYMBOLS

- EXISTING CATCH BASIN IN CURB LINE
- PROPOSED CATCH BASIN IN CURB LINE
- EXISTING CATCH BASIN IN GREEN SPACE
- PROPOSED CATCH BASIN IN GREEN SPACE
- EXISTING STORM MANHOLE
- PROPOSED STORM MANHOLE
- PROPOSED CULVERT END SECTION
- EXISTING HEADWALL
- PROPOSED HEADWALL
- EXISTING WATER SHUTOFF (SERVICE VALVE)
- EXISTING GATE VALVE AND BOX (STOP BOX)
- PROPOSED GATE VALVE AND BOX
- EXISTING GATE VALVE AND WELL
- PROPOSED GATE VALVE AND WELL
- EXISTING SPRINKLER HEAD
- EXISTING WATER WELL
- EXISTING FIRE HYDRANT
- PROPOSED FIRE HYDRANT
- PROPOSED WATER MAIN FITTINGS
- EXISTING CLEAN OUT
- EXISTING SANITARY SEWER MANHOLE
- PROPOSED SANITARY SEWER MANHOLE
- EXISTING MONITORING WELL

## EXISTING TOPOGRAPHICAL SYMBOLS

- SIGN
- STREET SIGN
- END OF PIPE
- SWAMP OR WETLAND
- DECIDUOUS TREE
- CONIFEROUS TREE
- TREE STUMP
- MAIL BOX
- SOIL BORING
- ROCK
- METAL POST
- BUMPER BLOCK

## UTILITY SYMBOLS

- UTILITY POLE
- GUY ANCHOR CABLE
- LIGHT POLE / ORNAMENTAL LIGHT
- POWER LIGHT POLE
- TELEPHONE MANHOLE
- UNDERGROUND GAS LINE MARKER
- GAS RISER
- GAS VENT
- GAS VALVE
- RAILROAD SIGNAL
- METAL LIGHT POLE
- OUTLET
- CIRCUIT BREAKER PANEL
- ELECTRICAL TRANSFORMER PAD
- ELECTRICAL TRANSFORMER RISER
- ELECTRIC METER
- TELEPHONE PEDESTAL / RISER
- TRAFFIC SIGNAL ON POLE
- PHONE BOOTH / PAY PHONE

## SURVEY SYMBOLS

- MONUMENT
- BENCHMARK
- TRAVERSE POINT
- SECTION CORNER
- FOUND SURVEY MONUMENTATION

## MISCELLANEOUS SYMBOLS

- EX 1812 — EXISTING STORM SEWER STRUCTURE NUMBER
- EX 5236 — EXISTING SANITARY SEWER STRUCTURE NUMBER
- 1 — PROPOSED STORM SEWER STRUCTURE NUMBER
- A — PROPOSED SANITARY SEWER STRUCTURE NUMBER
- FLOW DIRECTION
- EXISTING RIP-RAP
- PROPOSED RIP-RAP

## CAUTION SYMBOLS

- ••CAUTION•• HAZARDOUS FLAMMABLE MATERIAL UNDERGROUND — USED WITH UNDERGROUND GAS & ELECTRICAL LINES
- ••CAUTION•• FIBER OPTIC — USED WITH FIBER OPTICS LINES

## PLAN VIEW LINE TYPES

- 12" STM — EXISTING STORM SEWER
- 12" CONC — EXISTING CULVERT
- PROPOSED STORM SEWER LESS THAN 24"
- PROPOSED STORM SEWER 24" AND GREATER
- 12" SAN — EXISTING SANITARY SEWER
- PROPOSED SANITARY SEWER
- 12" WM — EXISTING WATER MAIN
- PROPOSED WATER MAIN
- SECTION LINE
- 60' ROW — EXISTING RIGHT OF WAY
- 60' ROW — PROPOSED RIGHT OF WAY
- PROPOSED EASEMENT
- EXISTING CENTER LINE DITCH
- PROPOSED DITCH CENTERLINE
- EXISTING CENTER LINE ROADWAY
- PARCEL LINE / LOT LINE
- O/H — EXISTING OVERHEAD UTILITIES
- U/G ELEC — UNDERGROUND ELECTRICAL LINE
- 6" S-MP GAS — GAS LINE OR PETROLEUM PIPELINE
- U/G TEL — UNDERGROUND TELEPHONE LINE
- U/G CATV — UNDERGROUND CABLE TV LINE
- U/G FIBER OPTIC — UNDERGROUND FIBER OPTIC
- 11+00 — PROJECT CONTROL LINE
- TREE LINE
- BRUSH LINE
- EXISTING FENCE
- PROPOSED FENCE
- EXISTING GUARD RAIL
- PROPOSED SLOPE STAKE LINE
- PROPOSED SILT FENCE

## TOPOGRAPHY

- 960 — EXISTING CONTOURS MAJOR
- 958 — EXISTING CONTOURS MINOR
- 960 — PROPOSED CONTOUR MAJOR
- 958 — PROPOSED CONTOURS MINOR

## PARCEL INFORMATION

- 401-069 — PARCEL/TAX IDENTIFICATION NUMBER
- #5324 — ADDRESS/BUSINESS NAME

## PAVEMENT IDENTIFICATION

- EXISTING CURB AND GUTTER
- PROPOSED CURB AND GUTTER
- PROPOSED HMA

## HATCHING LEGEND

- PAVT, REM, MODIFIED
- COLD MILLING
- SIDEWALK, REM
- REMOVE CURB AND GUTTER (PAID FOR AS PAVT, REM, MODIFIED)
- SAND BACKFILL (PROFILE)
- SIDEWALK, CONC, _ INCH
- SIDEWALK RAMP, CONC, 7 INCH
- DETECTABLE WARNING SURFACE, MODIFIED
- DRIVEWAY, NONREINF, CONC, _INCH

## PROPOSED CALLOUTS

| TOPO CALLOUTS | PLAN VIEW | |
|---|---|---|
| ADJ | ADJ | ADJUST STRUCTURE |
| ADJ-X | ADJ-X | ADJUST STRUCTURE W/ NEW COVER |
| ADJ-MH | ADJ-MH | ADJUST MANHOLE COVER |
| ADJ-B/O | ADJ-B/O | ADJUST STRUCTURE BY OTHERS |
| REC | REC | RECONSTRUCT STRUCTURE |
| REL | REL | RELOCATE |
| REL-B/O | REL-B/O | RELOCATE BY OTHERS |
| REM | R | REMOVE |
| R&R | R&R | REMOVE AND REPLACE |
| SALV | SALV | SALVAGE |
| SAVE | S | SAVE |
| ABN | A | ABANDON |
| CLR | C | CLEARING |
| | B | BULKHEAD |
| | SR-F | SIDEWALK RAMP TYPE |
| | 6 | SOIL EROSION CONTROL MEASURE |

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

**PLAN SUBMITTALS AND CHANGES**

BIDDING DOCUMENTS

| DATE | DESCRIPTION |
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PLAN DATE: JUNE 2019
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PREPARED FOR
CITY OF FLINT
COURT STREET REHABILITATION

LEGEND SHEET

REV:

SHT# 4 OF 100

JOB No: 18C0137

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# GENERAL CONSTRUCTION NOTES

## VERIFICATION OF UNDERGROUND UTILITIES
THE CONTRACTOR SHALL EXCAVATE AND LOCATE ALL EXISTING UTILITIES IN THE PROJECT AREA IN ADVANCE OF CONSTRUCTION TO VERIFY THEIR ACTUAL LOCATION. POTENTIAL CONFLICTS SHALL BE REPORTED TO THE ENGINEER. THE CONTRACTOR SHALL MAKE SUCH CHANGES TO GRADE AND ALIGNMENT OF PROPOSED WORK AS DIRECTED BY THE ENGINEER TO AVOID CONFLICTS, AT NO INCREASE IN COST TO THE DEPARTMENT.

## UTILITY SERVICE
UNLESS SPECIFICALLY PROVIDED OTHERWISE IN THE CONTRACT DOCUMENTS, ALL EXISTING UTILITIES ARE TO REMAIN IN SERVICE DURING THE PROJECT.

## PRIVATE IRRIGATION SYSTEMS
WHERE IRRIGATION SYSTEMS WITHIN THE PUBLIC RIGHT-OF-WAY WILL INTERFERE WITH THE PROPOSED CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE PROPERTY OWNERS THAT IT IS THEIR RESPONSIBILITY TO REMOVE AND PROTECT THEIR IRRIGATION SYSTEM. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A COPY OF THE NOTIFICATION.

WHERE THE PROPERTY OWNER HAS NOT REMOVED THEIR PRIVATE IRRIGATION SYSTEM, THE CONTRACTOR SHALL CUT AND PLUG THOSE SECTIONS OF PIPING WHICH INTERFERE WITH CONSTRUCTION. SPRINKLER HEADS, VALVES, AND PIPING WHICH INTERFERES WITH THE CONTRACTOR'S WORK, SHALL BE REMOVED AND STOCKPILED ON THE OWNER'S PROPERTY.

## SOIL BORINGS / PAVEMENT CORES
SOIL BORINGS ARE INCLUDED IN THE PROPOSAL. LOGS OF SOIL BORINGS OR PAVEMENT CORES REPRESENT THE SUBSURFACE CONDITIONS ENCOUNTERED AT SPECIFIC POINTS. THE INFORMATION IS PROVIDED FOR THE CONTRACTOR'S INFORMATION ONLY.

## ALIGNMENT
ALIGNMENT AND GRADES FOR CURB AND GUTTER (INCLUDING THROUGH RAMPS AND DRIVEWAY OPENINGS) SHOWN ON THE PLANS ARE FOR THE TOP, BACK OF CURB, UNLESS SPECIFICALLY SHOWN OTHERWISE ON THE PLANS.

THE HORIZONTAL ALIGNMENT SHOWN ON THE DRAWINGS FOR DRAINAGE STRUCTURES LOCATED IN THE CURB LINE IS TO THE CENTER OF THE CASTING.

THE HORIZONTAL ALIGNMENT SHOWN ON THE DRAWINGS FOR DRAINAGE STRUCTURES WHICH ARE NOT IN THE CURB LINE AND FOR MANHOLES IS TO THE CENTER OF THE STRUCTURE.

WHERE RIM ELEVATIONS ARE PROVIDED ON THE PLANS FOR MANHOLE CASTINGS, THE ELEVATION PROVIDED IS FOR THE TOP OF THE CASTING.

WHERE RIM ELEVATIONS ARE PROVIDED FOR INLET TYPE CASTINGS, THE ELEVATIONS ARE PROVIDED AS FOLLOWS:
- CURB INLETS - THE ELEVATION OF THE TOP OF CURB
- ALL OTHER INLETS - THE ELEVATION OF THE FLOW LINE

WHERE RIM ELEVATIONS ARE PROVIDED ON THE PLANS FOR INLETS OR MANHOLE CASTINGS, THE ELEVATIONS PROVIDED ARE CONSIDERED PRELIMINARY. THE CONTRACTOR SHALL MAKE THE FINAL ADJUSTMENT FOLLOWING THE ESTABLISHMENT OF ACTUAL GRADING AND PAVEMENT ELEVATIONS.

## CONSTRUCTION STAKING
CONSTRUCTION STAKING IS TO BE PROVIDED BY THE ENGINEER OR DEPARTMENT. THE CONTRACTOR SHALL REQUEST STAKING AT LEAST THREE WORKING DAYS IN ADVANCE. THE CONTRACTOR SHALL PROTECT AND PRESERVE SURVEY CONTROL AND STAKING. RE-STAKING WILL BE AT THE CONTRACTOR'S EXPENSE.

## SURVEY CORNERS, BENCHMARKS, AND CONTROL POINTS
THE CONTRACTOR SHALL PRESERVE ALL GOVERNMENT CORNERS, PROPERTY CORNERS, BENCHMARKS, SURVEY CONTROL POINTS AND OTHER SURVEY POINTS WITHIN THE PROJECT AREA. WHERE CORNERS, BENCHMARKS, OR SURVEY POINTS ARE ENCOUNTERED WHICH WILL BE DISTURBED BY THE CONTRACTOR'S ACTIVITIES; A LICENSED SURVEYOR SHALL WITNESS THE POINT BEFORE DISTURBANCE AND SHALL RE-SET THE POINT FOLLOWING THE COMPLETION OF CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL PAY THE SURVEYOR TO WITNESS AND TO RE-SET THE POINTS.

## PROTECTION OF TREES, SHRUBS, AND LANDSCAPING
ALL TREES, SHRUBS, AND LANDSCAPING WITHIN THE CONSTRUCTION AREA WHICH ARE NOT SPECIFICALLY DESIGNATED FOR REMOVAL SHALL BE PROTECTED FROM DAMAGE BY THE CONTRACTOR. DAMAGED TREES, SHRUBS, AND LANDSCAPING SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

## CONSTRUCTION SIGNING AND BARRICADING
THE CONTRACTOR SHALL PROTECT HAZARDOUS AREAS WITH BARRICADES.

THE CONTRACTOR SHALL PROVIDE SUITABLE SANDBAGS OR OTHER SUITABLE MEASURES FOR ANCHORING OF TEMPORARY SIGNS AND BARRICADES, TO PREVENT THEIR TIPPING OR DISPLACEMENT BY WIND OR AIR FLOW FROM VEHICLES.

THE CONTRACTOR SHALL COVER OR REMOVE TEMPORARY SIGNS DURING PERIODS WHEN THEY ARE NOT APPROPRIATE.

## DRAINAGE
THE CONTRACTOR SHALL MAINTAIN DRAINAGE OF THE PROJECT AREA AND ADJACENT AREAS. WHERE EXISTING DRAINAGE FACILITIES ARE DISTURBED OR BLOCKED BY CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY PROVISIONS FOR DRAINAGE.

WHERE CONSTRUCTION HAS DISTURBED EXISTING DITCHES, SWALES, OR OTHER DRAINAGE FACILITIES; THE CONTRACTOR SHALL RESTORE THEM TO THEIR GRADES AND DIMENSIONS WHICH EXISTED PRIOR TO THE BEGINNING OF CONSTRUCTION, UNLESS DIRECTED OTHERWISE.

DRAINAGE SHALL NOT BE REROUTED ONTO ADJACENT PROPERTIES NOR ALLOWED TO DRAIN ONTO ADJACENT PROPERTIES AT AN INCREASED RATE, AS A RESULT OF THE CONTRACTOR'S WORK.

## PROJECT QUANTITIES
## CATEGORY 1 - PARTICIPATING - STU

| DESCRIPTION | QUANTITY | UNITS |
|---|---|---|
| Mobilization, Max | 0.5 | LSUM |
| Stump, Rem, 19 inch to 36 inch | 4 | Ea |
| Stump, Rem, 6 inch to 18 inch | 1 | Ea |
| Sidewalk, Rem | 1604 | Syd |
| Pavt, Rem, Modified | 7627 | Syd |
| Excavation, Earth | 2101 | Cyd |
| Non Haz Contaminated Material Handling and Disposal, LM | 50 | Cyd |
| Subgrade Undercutting, Type II | 100 | Cyd |
| Erosion Control, Inlet Protection, Fabric Drop | 55 | Ea |
| Erosion Control, Turbidity Curtain, Shallow | 150 | Ft |
| Subbase, CIP | 495 | Cyd |
| Aggregate Base, 8 inch, Modified | 5455 | Syd |
| Maintenance Gravel, Modified | 2000 | Ton |
| Dr Structure, Tap, 6 inch | 67 | Ea |
| Structure, Adj, Add Depth | 97 | Ft |
| Dr Structure Cover, ADA Compliant | 2 | Ea |
| Manhole Cover, Adj | 56 | Ea |
| Structure Cover, Adj, Case 1 | 101 | Ea |
| Structure Cover, Special | 67 | Ea |
| Underdrain, Subbase, 6 inch | 9400 | Ft |
| Pavt Joint and Crack Repr, Det 7 | 2175 | Ft |
| Pavt Joint and Crack Repr, Det 8 | 2175 | Ft |
| Hand Patching | 512 | Ton |
| HMA, 4E1 | 2401 | Ton |
| HMA, 5E1 | 2401 | Ton |
| Cold Milling | 28667 | Syd |
| Lane Tie, Epoxy Anchored | 3965 | Ea |
| Conc Surface Coating | 1 | LSUM |
| Vertical and Overhead Structure Repairs, Shotcrete | 50 | Cft |
| Hand Chipping, Other Than Deck | 50 | Cft |
| Driveway, Nonreinf Conc, 6 inch | 2202 | Syd |
| Driveway, Nonreinf Conc, 8 inch | 535 | Syd |
| Curb and Gutter, Conc, Det C4 | 5424 | Ft |
| Driveway Opening, Conc, Det M | 479 | Ft |
| Curb and Gutter, Conc, Det C4, Modified | 7567 | Ft |
| Curb Ramp Opening, Conc | 466 | Ft |
| Sidewalk Ramp, Conc, 7 inch | 3883 | Sft |
| Sidewalk, Conc, 4 inch | 6915 | Sft |
| Sidewalk, Conc, 6 inch | 2067 | Sft |
| Detectable Warning Surface, Modified | 297 | Ft |
| Sidewalk, Conc, 8 inch | 412 | Sft |
| Post, Steel, 3 lb | 980 | Ft |
| Sign, Type III, Rem | 134 | Ea |
| Sign, Type IIIA | 197 | Sft |
| Sign, Type IIIB | 243 | Sft |
| Sign, Type VB | 8 | Sft |
| Pavt Mrkg, Ovly Cold Plastic, 6 inch, Crosswalk | 1138 | Ft |
| Pavt Mrkg, Ovly Cold Plastic, 24 inch, Stop Bar | 400 | Ft |
| Pavt Mrkg, Ovly Cold Plastic, Lt Turn Arrow Sym | 12 | Ea |
| Pavt Mrkg, Ovly Cold Plastic, Rt Turn Arrow Sym | 1 | Ea |
| Pavt Mrkg, Thermopl, 24 inch, Stop Bar | 34 | Ft |
| Pavt Mrkg, Ovly Cold Plastic, 4 inch, Wet Reflective, White | 1195 | Ft |
| Pavt Mrkg, Ovly Cold Plastic, 4 inch, Wet Reflective, Yellow | 12355 | Ft |
| Barricade, Type III, High Intensity, Double Sided, Lighted, Furn | 26 | Ea |
| Barricade, Type III, High Intensity, Double Sided, Lighted, Oper | 26 | Ea |
| Pedestrian Type II Barricade, Temp | 20 | Ea |
| Minor Traf Devices | 0.5 | LSUM |
| Pavt Mrkg, Longit, 6 inch or Less Width, Rem | 300 | Ft |
| Pavt Mrkg, Type NR, Tape, 4 inch, White, Temp | 2640 | Ft |
| Pavt Mrkg, Type NR, Tape, 4 inch, Yellow, Temp | 1450 | Ft |
| Plastic Drum, High Intensity, Furn | 100 | Ea |
| Plastic Drum, High Intensity, Oper | 100 | Ea |
| Sign, Type B, Temp, Prismatic, Furn | 779 | Sft |
| Sign, Type B, Temp, Prismatic, Oper | 779 | Sft |
| Traf Regulator Control | 0.5 | LSUM |
| Pedestrian Path, Temp | 480 | Ft |
| Pedestrian Ramp, Temp | 24 | Ea |
| Riprap, Heavy, Modified | 80 | Syd |
| Turf Establishment, Performance | 8075 | Syd |
| Traf Loop | 1 | Ea |
| TS, Pedestrian, Two Way Bracket Arm Mtd, Salv | 2 | Ea |
| Monument Box | 1 | Ea |
| Monument Box Adjust | 1 | Ea |
| Monument Preservation | 1 | Ea |
| Reimbursed Permit Fees | 1200 | Dlr |

## PROJECT QUANTITIES
## CATEGORY 5 - PARTICIPATING - NH

| DESCRIPTION | QUANTITY | UNITS |
|---|---|---|
| Mobilization, Max | 0.5 | LSUM |
| Dr Structure, Rem | 1 | Ea |
| Sidewalk, Rem | 774 | Syd |
| Pavt, Rem, Modified | 5888 | Syd |
| Excavation, Earth | 2283 | Cyd |
| Non Haz Contaminated Material Handling and Disposal, LM | 50 | Cyd |
| Subgrade Undercutting, Type II | 100 | Cyd |
| Erosion Control, Inlet Protection, Fabric Drop | 33 | Ea |
| Subbase, CIP | 257 | Cyd |
| Aggregate Base, 8 inch, Modified | 4929 | Syd |
| Maintenance Gravel, Modified | 1000 | Ton |
| Sewer, Cl A, 12 inch, Tr Det B | 30 | Ft |
| Sewer Tap, 30 inch | 2 | Ea |
| Dr Structure, 48 inch dia | 1 | Ea |
| Dr Structure, 60 inch dia | 1 | Ea |
| Dr Structure, 72 inch dia | 1 | Ea |
| Dr Structure, Tap, 6 inch | 25 | Ea |
| Dr Structure, Tap, 12 inch | 1 | Ea |
| Structure, Adj, Add Depth | 38 | Ft |
| Manhole Cover, Adj | 32 | Ea |
| Structure Cover, Adj, Case 1 | 54 | Ea |
| Structure Cover, Special | 27 | Ea |
| Structure Cover, Adj, Case 2 | 4 | Ea |
| Underdrain, Subbase, 6 inch | 4500 | Ft |
| Pavt Joint and Crack Repr, Det 7 | 2755 | Ft |
| Pavt Joint and Crack Repr, Det 8 | 2755 | Ft |
| Hand Patching | 693 | Ton |
| HMA, 4E1 | 2214 | Ton |
| HMA, 5E1 | 2214 | Ton |
| Cold Milling | 26348 | Syd |
| Lane Tie, Epoxy Anchored | 4111 | Ea |
| Driveway, Nonreinf Conc, 8 inch | 1416 | Syd |
| Curb and Gutter, Conc, Det C4 | 308 | Ft |
| Driveway Opening, Conc, Det M | 332 | Ft |
| Curb and Gutter, Conc, Det C4, Modified | 8051 | Ft |
| Curb Ramp Opening, Conc | 87 | Ft |
| Sidewalk Ramp, Conc, 7 inch | 781 | Sft |
| Sidewalk, Conc, 4 inch | 5052 | Sft |
| Detectable Warning Surface, Modified | 50 | Ft |
| Sidewalk, Conc, 8 inch | 1043 | Sft |
| Post, Mailbox | 14 | Ea |
| Post, Steel, 3 lb | 663 | Ft |
| Sign, Type III, Rem | 58 | Ea |
| Sign, Type IIIA | 86 | Sft |
| Sign, Type IIIB | 181 | Sft |
| Pavt Mrkg, Ovly Cold Plastic, 6 inch, Crosswalk | 509 | Ft |
| Pavt Mrkg, Ovly Cold Plastic, 24 inch, Stop Bar | 388 | Ft |
| Pavt Mrkg, Ovly Cold Plastic, Lt Turn Arrow Sym | 5 | Ea |
| Pavt Mrkg, Ovly Cold Plastic, Railroad Sym | 4 | Ea |
| Pavt Mrkg, Thermopl, 24 inch, Stop Bar | 34 | Ft |
| Pavt Mrkg, Ovly Cold Plastic, 4 inch, Wet Reflective, White | 8264 | Ft |
| Pavt Mrkg, Ovly Cold Plastic, 4 inch, Wet Reflective, Yellow | 11245 | Ft |
| Barricade, Type III, High Intensity, Double Sided, Lighted, Furn | 18 | Ea |
| Barricade, Type III, High Intensity, Double Sided, Lighted, Oper | 18 | Ea |
| Pedestrian Type II Barricade, Temp | 20 | Ea |
| Minor Traf Devices | 0.5 | LSUM |
| Pavt Mrkg, Longit, 6 inch or Less Width, Rem | 300 | Ft |
| Pavt Mrkg, Type NR, Tape, 4 inch, White, Temp | 2640 | Ft |
| Pavt Mrkg, Type NR, Tape, 4 inch, Yellow, Temp | 1450 | Ft |
| Plastic Drum, High Intensity, Furn | 100 | Ea |
| Plastic Drum, High Intensity, Oper | 100 | Ea |
| Sign, Type B, Temp, Prismatic, Furn | 779 | Sft |
| Sign, Type B, Temp, Prismatic, Oper | 779 | Sft |
| Traf Regulator Control | 0.5 | LSUM |
| Pedestrian Path, Temp | 120 | Ft |
| Pedestrian Ramp, Temp | 6 | Ea |
| Railroad Protection, at Grade Crossing | 1000 | Dlr |
| Turf Establishment, Performance | 5825 | Syd |
| Traf Loop | 1 | Ea |
| Monument Box | 1 | Ea |
| Monument Box Adjust | 1 | Ea |
| Monument Preservation | 1 | Ea |
| Reimbursed Permit Fees | 1200 | Dlr |

## PROJECT QUANTITIES
## CATEGORY 3 - NON-PARTICIPATING

| DESCRIPTION | QUANTITY | UNITS |
|---|---|---|
| Stump, Rem, 19 inch to 36 inch | 6 | Ea |
| Stump, Rem, 37 inch or Larger | 1 | Ea |
| Stump, Rem, 6 inch to 18 inch | 16 | Ea |
| Dr Structure, Rem | 1 | Ea |
| Sewer, Rem, Less than 24 inch | 20 | Ft |
| Sidewalk, Rem | 302 | Syd |
| Pavt, Rem, Modified | 11745 | Syd |
| Excavation, Earth | 34 | Cyd |
| Non Haz Contaminated Material Handling and Disposal, LM | 100 | Cyd |
| Subbase, CIP | 53 | Cyd |
| Aggregate Base, 8 inch, Modified | 13387 | Syd |
| Sewer, Cl A, 12 inch, Tr Det B | 20 | Ft |
| Dr Structure, Tap, 12 inch | 2 | Ea |
| HMA, 3C | 4370 | Ton |
| Sidewalk Ramp, Conc, 7 inch | 87 | Sft |
| Sidewalk, Conc, 4 inch | 2691 | Sft |
| Sidewalk, Conc, 8 inch | 778 | Sft |
| Abandon Water Main, 12 inch | 7770 | Ft |
| Abandon Water Main, 24 inch | 2380 | Ft |
| Abandon Water Main, 6 inch | 403 | Ft |
| Abandon Water Main, 8 inch | 467 | Ft |
| Water Main Bedding and Backfill, SD-7W | 13124 | Ft |
| Water Main, 12 inch, CIPP Liner | 360 | Ft |
| Water Main, 12 inch, Open Cut | 8167 | Ft |
| Water Main, 24 inch, Open Cut | 2402 | Ft |
| Water Main, 3 inch, Open Cut | 28 | Ft |
| Water Main, 4 inch, Open Cut | 41 | Ft |
| Water Main, 6 inch, Open Cut | 1035 | Ft |
| Water Main, 8 inch, Open Cut | 2799 | Ft |
| Gate Valve and Box, 3 inch, Modified | 1 | Ea |
| Gate Valve and Box, 4 inch, Modified | 1 | Ea |
| Gate Valve and Box, 6 inch, Modified | 17 | Ea |
| Gate Valve and Box, 8 inch, Modified | 10 | Ea |
| Gate Valve and Well, 12 inch, Modified | 16 | Ea |
| Gate Valve and Well, 24 inch, Modified | 3 | Ea |
| Gate Valve and Well, 8 inch, Modified | 7 | Ea |
| Hydrant Assembly, SD-1W | 31 | Ea |
| Hydrant, Rem, Modified | 21 | Ea |
| Water Main, 12 inch, Cut and Plug, Modified | 9 | Ea |
| Water Main, 24 inch, Cut and Plug, Modified | 2 | Ea |
| Water Main, 3 inch, Cut and Plug, Modified | 1 | Ea |
| Water Main, 4 inch, Cut and Plug, Modified | 2 | Ea |
| Water Main, 6 inch, Cut and Plug, Modified | 16 | Ea |
| Water Main, 8 inch, Cut and Plug, Modified | 15 | Ea |
| Water Main, Connect New 12 inch to Existing 12 inch | 10 | Ea |
| Water Main, Connect New 24 inch to Existing 24 inch | 2 | Ea |
| Water Main, Connect New 3 inch to Existing 3 inch | 1 | Ea |
| Water Main, Connect New 4 inch to Existing 4 inch | 1 | Ea |
| Water Main, Connect New 6 inch to Existing 4 inch | 1 | Ea |
| Water Main, Connect New 6 inch to Existing 6 inch | 16 | Ea |
| Water Main, Connect New 8 inch to Existing 8 inch | 14 | Ea |
| Water Serv, 1 inch | 61 | Ea |
| Water Serv, 2 inch | 1 | Ea |
| Water Serv, Long, 1 inch | 87 | Ea |
| Water Serv, Long, 1.5 inch | 2 | Ea |
| Water Serv, Long, 2 inch | 3 | Ea |
| Water Structure, Abandon | 17 | Ea |
| Sanitary Sewer, PVC, SDR 26, 12 inch, Tr Det B | 30 | Ft |
| Sanitary Sewer, Rem | 30 | Ft |
| Sanitary Sewer Manhole, Rem | 1 | Ea |
| Sanitary Sewer Manhole, Tap, 12 inch | 1 | Ea |
| Sanitary Sewer Tap, 12 inch | 1 | Ea |

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**PLAN SUBMITTALS AND CHANGES**

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

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

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COURT STREET REHABILITATION

GENERAL NOTES & PROJECT QUANTITIES SHEET

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REV:

SHT# 5 OF 100

JOB No: 18C0137

PLOTTED: 6/6/2019 8:36 AM

## SOIL BORING NOTE

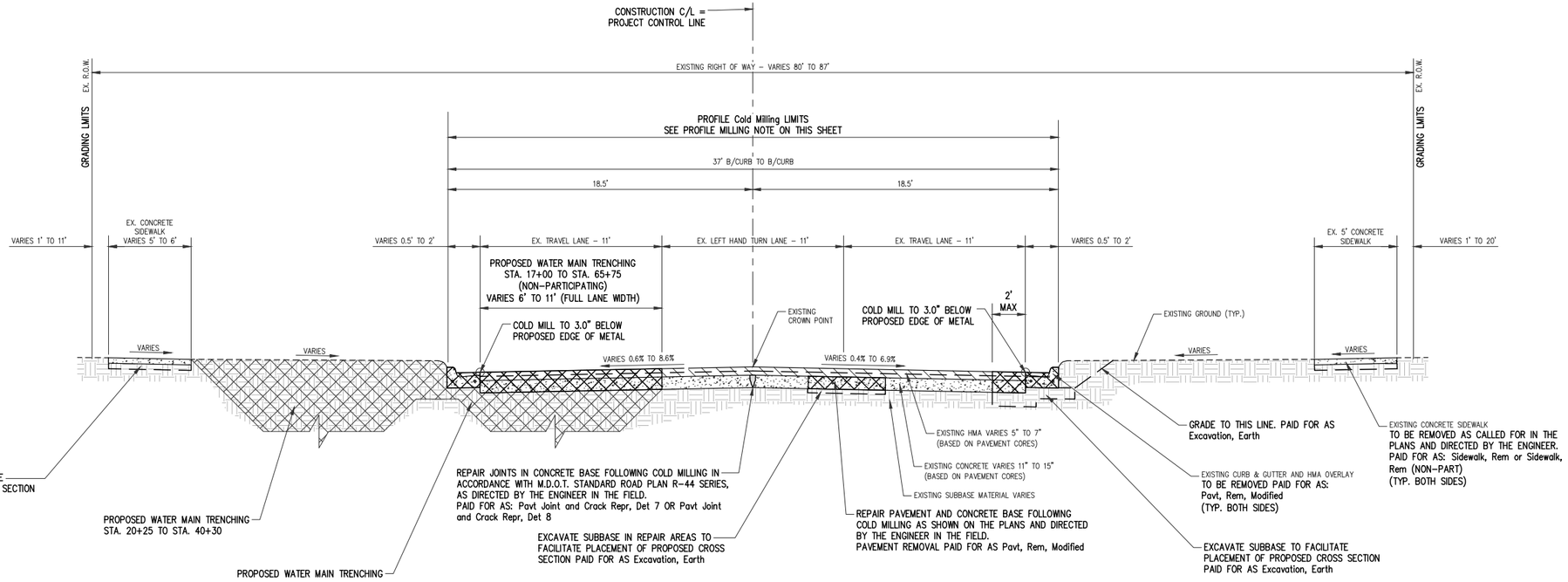
NOTE: SEE ROAD REMOVAL SHEETS FOR PAVEMENT CORE AND SOIL BORING LOCATIONS. PAVEMENT CORE AND SOIL BORING LOGS ARE INCLUDED IN THE PROPOSAL.

## PROFILE MILLING NOTE

CONTRACTOR SHALL PROFILE MILL STARTING AT PROPOSED EDGE OF METAL AT 3" DEEP AND MILL LEFT TRAVEL LANE AND RIGHT TRAVEL LANE AT 2.5% SLOPE TO LEFT HAND TURN LANE. LEFT HAND TURN LANE TO BE MILLED AT 2.0% SLOPE.

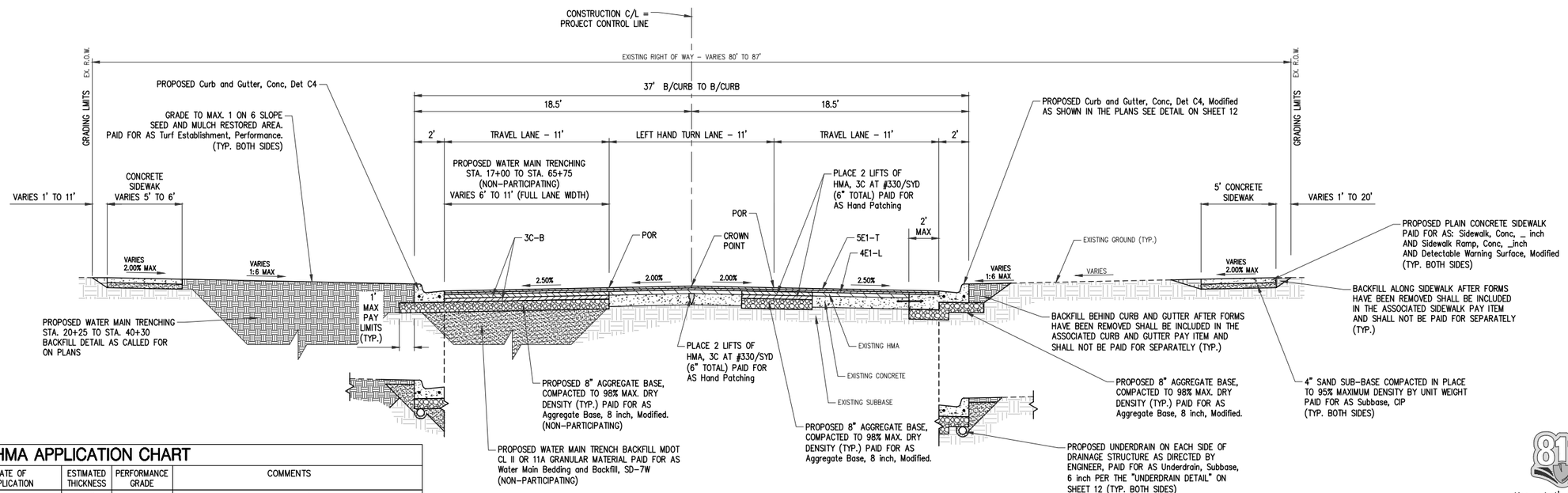
## HMA APPLICATION NOTE

CONTRACTOR SHALL PAVE TO PROPOSED LANE WIDTHS SHOWN SUCH THAT LONGITUDINAL JOINTS CORRESPOND TO PAVEMENT MARKINGS.




## TYPICAL EXISTING ROAD CROSS SECTION: COURT STREET

TO APPLY STA. 11+50 (P.O.B.) TO STA. 65+75
ACTUAL FIELD CONDITIONS OF MATERIALS AND THICKNESS OF MATERIALS MAY VARY
NOT TO SCALE




## TYPICAL PROPOSED ROAD CROSS SECTION: COURT STREET

TO APPLY STA. 11+50 (P.O.B.) TO STA. 65+75
ACTUAL FIELD CONDITIONS OF MATERIALS AND THICKNESS OF MATERIALS MAY VARY
NOT TO SCALE

### HMA APPLICATION CHART

| IDENT NO | ITEM | HMA PAVEMENT | RATE OF APPLICATION | ESTIMATED THICKNESS | PERFORMANCE GRADE | COMMENTS |
|---|---|---|---|---|---|---|
| 5E1–T | HMA, 5E1 | HMA, 5E1 | 165#/SYD | 1.5" | 64–28 | TOP COURSE (AWI = 260 MINIMUM) |
| 4E1–L | HMA, 4E1 | HMA, 4E1 | 165#/SYD | 1.5" | 64–28 | LEVELING COURSE |
| 3C–B | HMA, 3C | HMA, 3C | 2 LIFTS 330#/SYD | 6.0" | 64–28 | NON–PARTICIPATING WATER MAIN TRENCH BASE COURSE |
| | Hand Patching | HMA, 3C | 2 LIFTS 330#/SYD | 6.0" | 64–28 | BASE COURSES FOR JOINT AND CRACK REPAIRS AND PAVEMENT REPAIRS |
| | HMA BOND COAT | | 0.05–0.15 GAL | | | NOT A PAY ITEM; FOR INFORMATION ONLY |

SIDE STREET APPROACHES SHALL BE PAVED USING THE SAME CROSS SECTION AS THE MAINLINE. PAYMENT FOR THE SIDE STREET APPROACHES SHALL BE PAID FOR BY THE TON USING THE HMA, 5E1 AND HMA, 4E1 PAY ITEMS. PAYMENT FOR WATER MAIN TRENCH REPAIRS SHALL BE PAID FOR BY THE TON USING THE HMA, 3C PAY ITEM.

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### PLAN SUBMITTALS AND CHANGES

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TYPICAL ROAD CROSS SECTIONS

REV:

SHT# 6 OF 100

JOB No: 18C0137

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## SOIL BORING NOTE

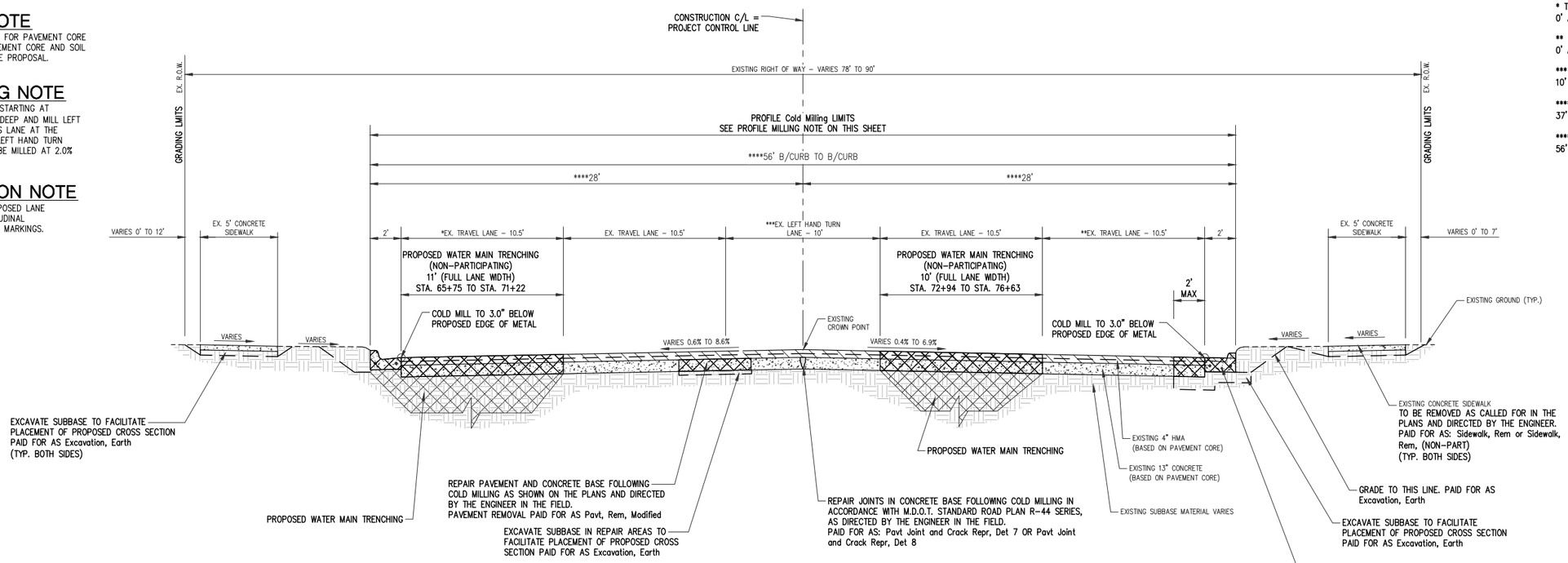
NOTE: SEE ROAD REMOVAL SHEETS FOR PAVEMENT CORE AND SOIL BORING LOCATIONS. PAVEMENT CORE AND SOIL BORING LOGS ARE INCLUDED IN THE PROPOSAL.

## PROFILE MILLING NOTE

CONTRACTOR SHALL PROFILE MILL STARTING AT PROPOSED EDGE OF METAL AT 3" DEEP AND MILL LEFT TRAVELS LANE AND RIGHT TRAVELS LANE AT THE PROPOSED SLOPES INDICATED TO LEFT HAND TURN LANE. LEFT HAND TURN LANE TO BE MILLED AT 2.0% SLOPE.

## HMA APPLICATION NOTE

CONTRACTOR SHALL PAVE TO PROPOSED LANE WIDTHS SHOWN SUCH THAT LONGITUDINAL JOINTS CORRESPOND TO PAVEMENT MARKINGS.




* TRAVEL LANE TAPERS FROM 0' AT STA. 65+75 TO 10.5' AT STA. 67+64

** TRAVEL LANE TAPERS FROM 0' AT STA. 65+75 TO 10.5' AT STA. 67+84

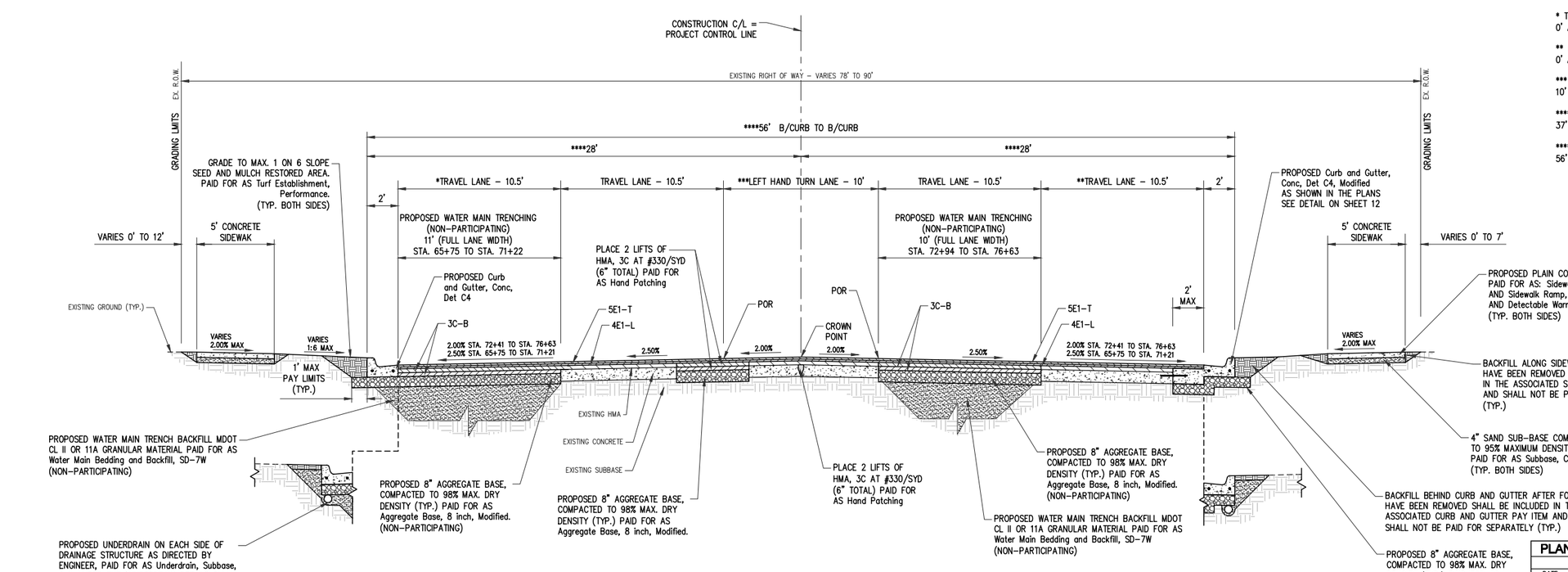
*** LEFT HAND TURN LANE TAPER FROM 10' AT STA. 75+00 TO 0' AT STA. 76+63

**** B/CURB TO B/CURB VARIES FROM 37' AT STA. 65+75 TO 56' AT STA. 67+84

**** B/CURB TO B/CURB VARIES FROM 56' AT STA. 75+00 TO 45' AT STA. 76+63

## TYPICAL EXISTING ROAD CROSS SECTION: COURT STREET

TO APPLY STA. 65+75 TO STA. 76+63 (DORT HIGHWAY APPROACHES)
ACTUAL FIELD CONDITIONS OF MATERIALS AND THICKNESS OF MATERIALS MAY VARY
NOT TO SCALE




* TRAVEL LANE TAPERS FROM 0' AT STA. 65+75 TO 10.5' AT STA. 67+64

** TRAVEL LANE TAPERS FROM 0' AT STA. 65+75 TO 10.5' AT STA. 67+84

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## TYPICAL PROPOSED ROAD CROSS SECTION: COURT STREET

TO APPLY STA. 65+75 TO STA. 76+63 (DORT HIGHWAY APPROACHES)
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TYPICAL ROAD CROSS SECTIONS

REV:

SHT# 7 OF 100

JOB No: 18C0137

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## SOIL BORING NOTE

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## HMA APPLICATION NOTE

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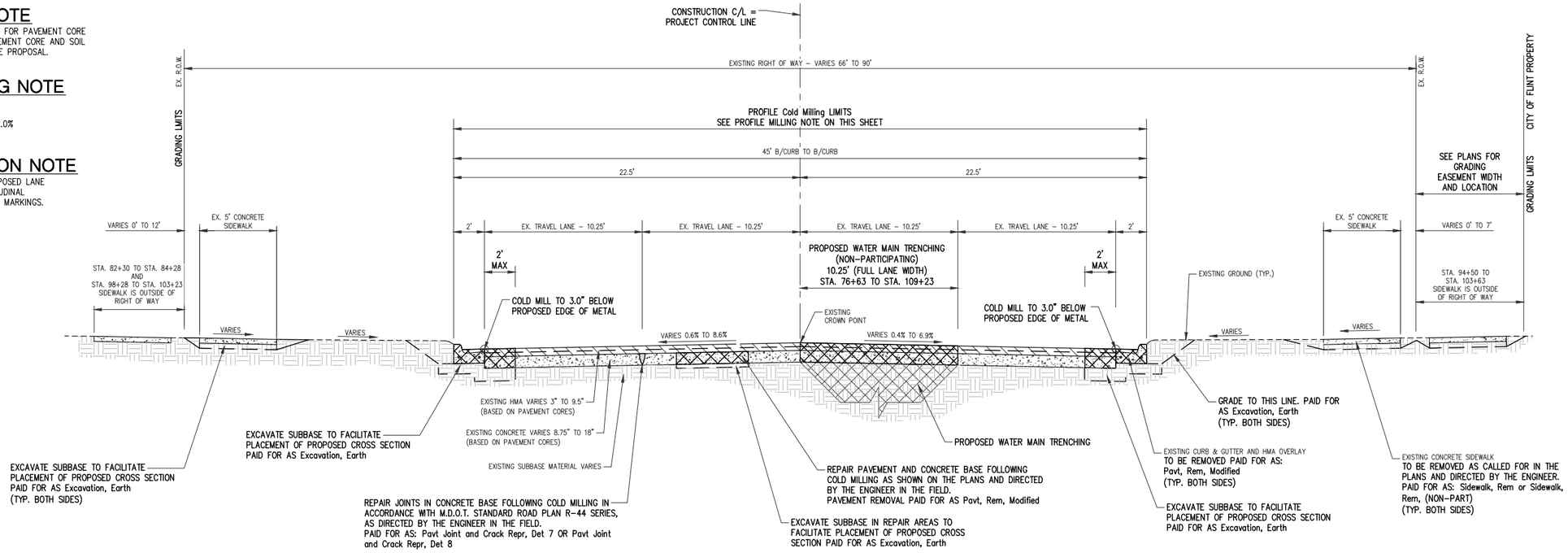
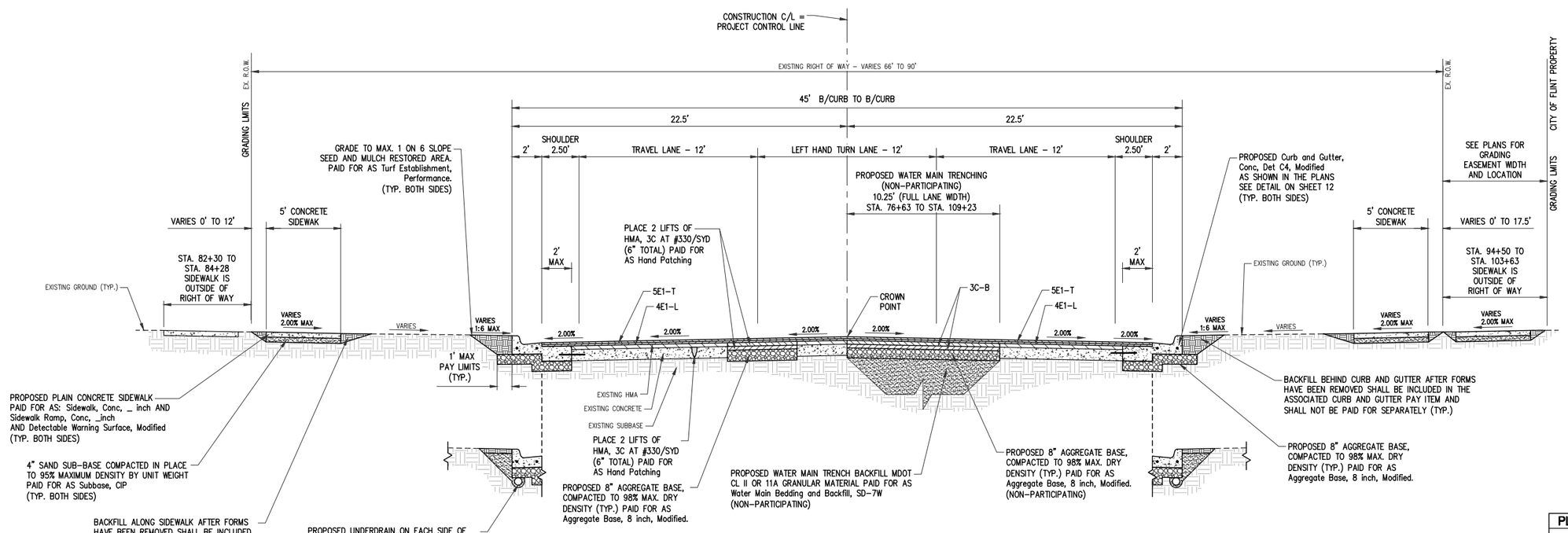



## TYPICAL EXISTING ROAD CROSS SECTION: COURT STREET

TO APPLY STA. 76+63 TO STA. 120+08
ACTUAL FIELD CONDITIONS OF MATERIALS AND THICKNESS OF MATERIALS MAY VARY
NOT TO SCALE




## TYPICAL PROPOSED ROAD CROSS SECTION: COURT STREET

TO APPLY STA. 76+63 TO STA. 120+08
ACTUAL FIELD CONDITIONS OF MATERIALS AND THICKNESS OF MATERIALS MAY VARY
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**PLAN SUBMITTALS AND CHANGES**

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TYPICAL ROAD CROSS SECTIONS

REV:

SHT# 8 OF 100

JOB No: 18C0137

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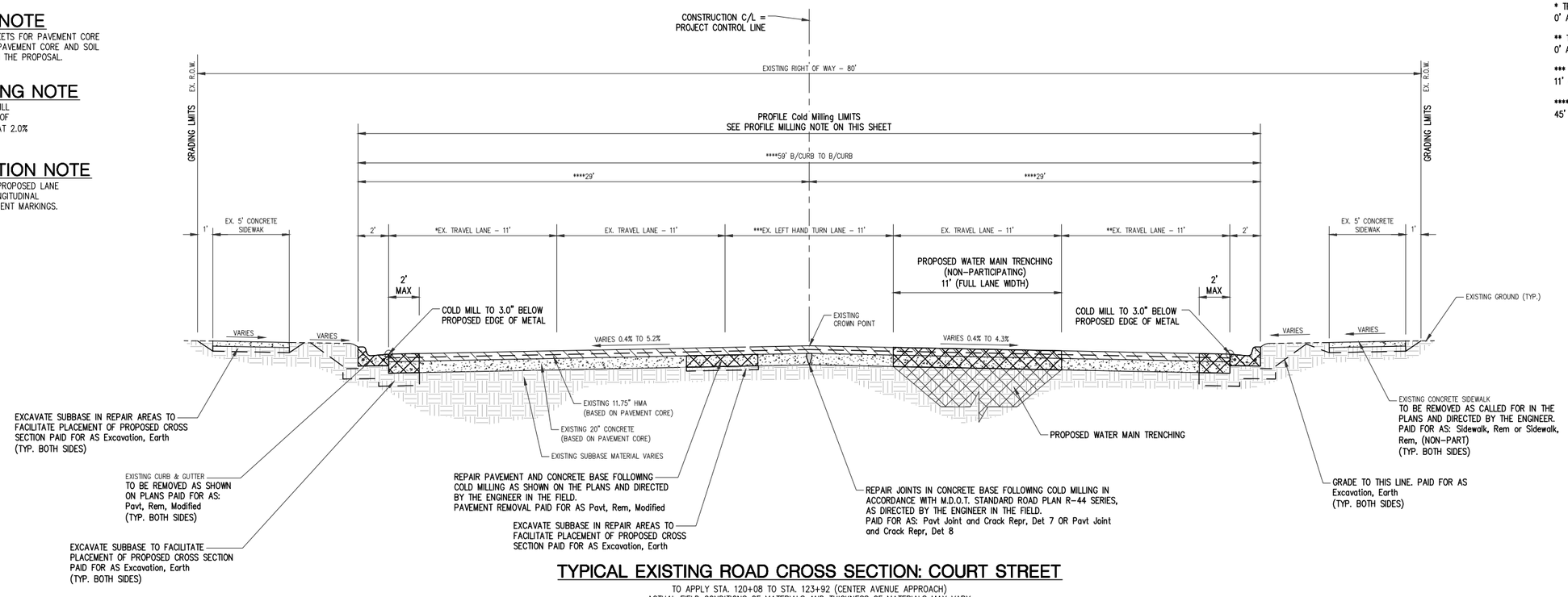
* TRAVEL LANE TAPERS FROM 0' AT STA. 120+08 TO 11' AT STA. 122+14

** TRAVEL LANE TAPERS FROM 0' AT STA. 120+10 TO 11' AT STA. 122+52

*** LEFT HAND TURN LANE TAPER FROM 11' AT STA. 120+10 TO 12' AT STA. 122+52

**** B/CURB TO B/CURB VARIES FROM 45' AT STA. 120+08 TO 59' AT STA. 122+52




## TYPICAL EXISTING ROAD CROSS SECTION: COURT STREET

TO APPLY STA. 120+08 TO STA. 123+92 (CENTER AVENUE APPROACH)
ACTUAL FIELD CONDITIONS OF MATERIALS AND THICKNESS OF MATERIALS MAY VARY
NOT TO SCALE

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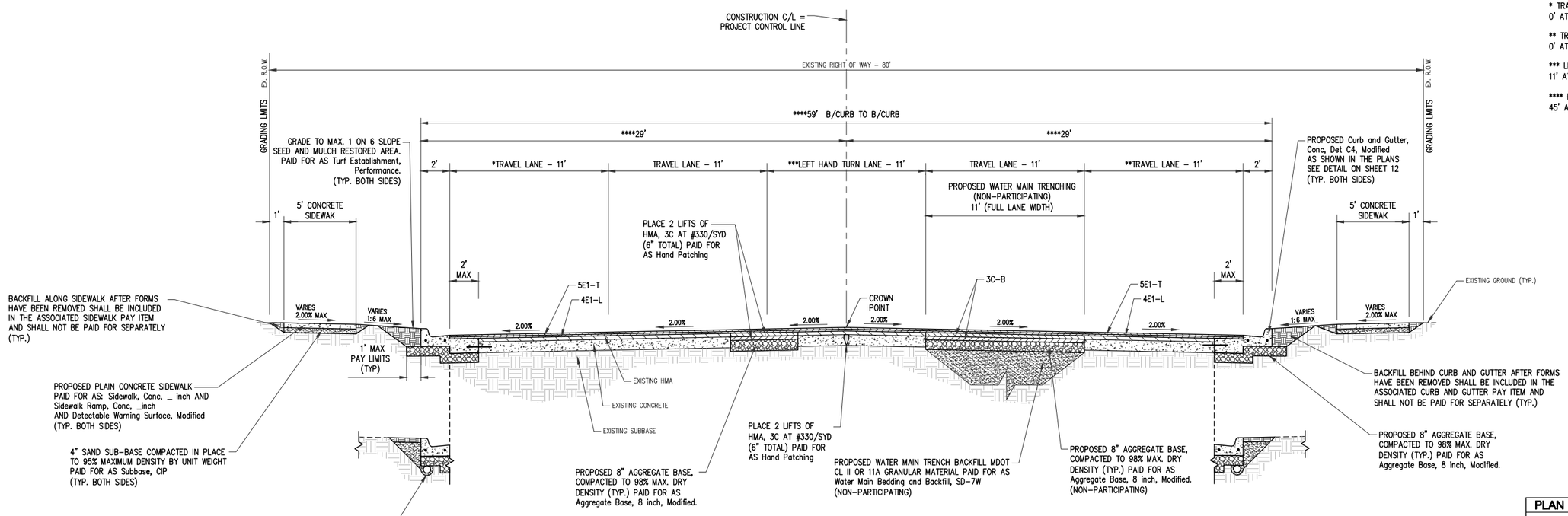


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TYPICAL ROAD CROSS SECTIONS

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JOB No: 18C0137

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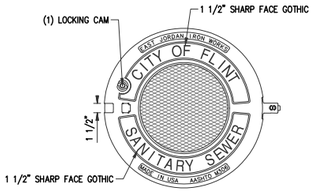
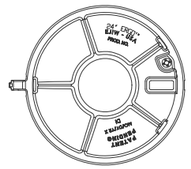
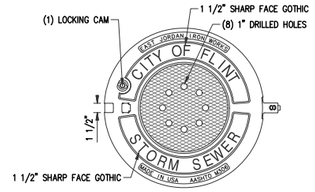



PLAN VIEW OF COVER



BOTTOM VIEW OF COVER

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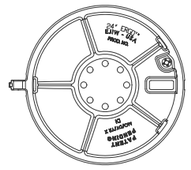

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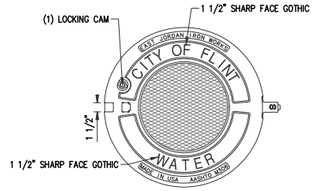


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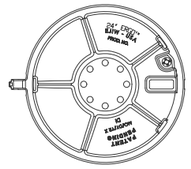

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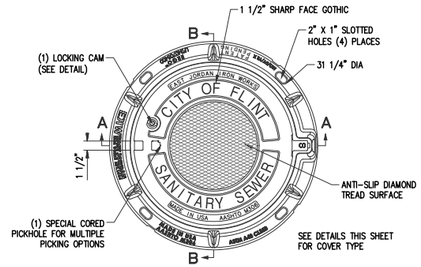
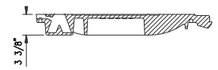
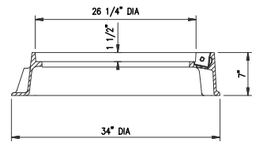


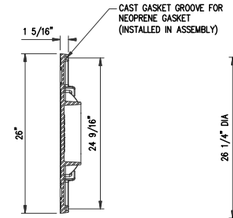

PLAN VIEW



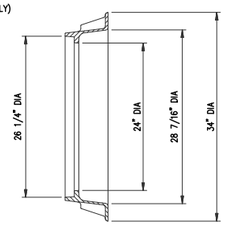

COVER SECTION A–A




FRAME SECTION A–A

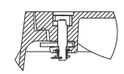



COVER SECTION B–B

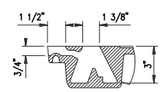



FRAME SECTION B–B

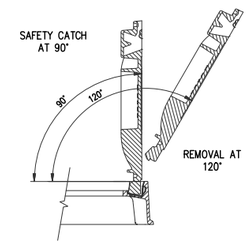
HINGE & GASKET VIEW



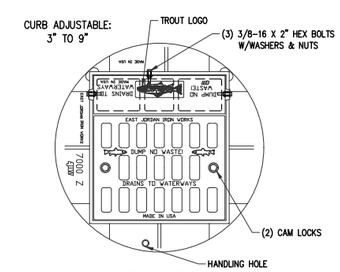
LOCKING VIEW



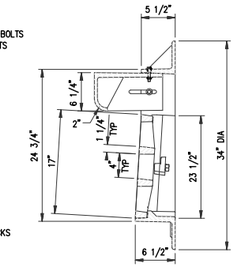

PICKHOLE DETAIL



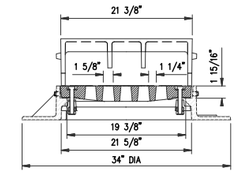

HINGE POSITIONS



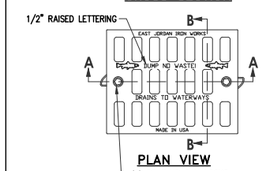

PLAN VIEW




CROSS SECTION




CROSS SECTION

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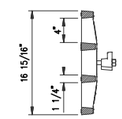
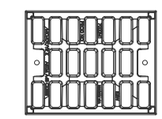
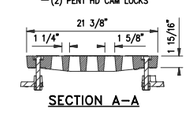


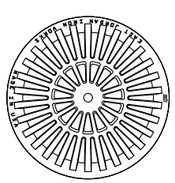

SECTION B–B



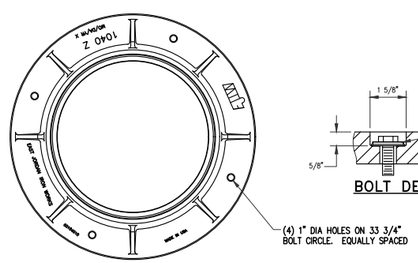
BOTTOM VIEW



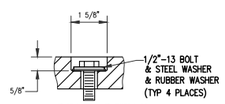

SECTION A–A



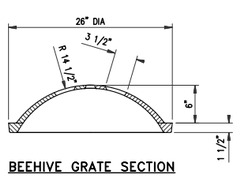
BEEHIVE GRATE



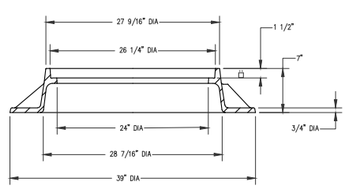

1040Z FRAME PLAN VIEW




BOLT DETAIL




BEEHIVE GRATE SECTION




FRAME SECTION

FINAL ADJUSTMENT OF UTILITY STRUCTURE CASTINGS SHALL BE MADE PRIOR TO PLACING TOP COURSE

## DRAINAGE STRUCTURE COVERS

| COVER | CF-1 | CF-2 | CF-3 | CF-4 | CF-5 | CF-6 |
|---|---|---|---|---|---|---|
| COVER TYPE | EJIW ERGO HINGED COVER W/ CAM LOCKS, STAMPED CITY OF FLINT - SANITARY" PER DETAILS ON THIS SHEET. | EJIW ERGO HINGED COVER W/ CAM LOCKS, STAMPED CITY OF FLINT - STORM" PER DETAILS ON THIS SHEET. | CURB FACE EJIW 7000 Z, T1 & M1 | CURB CUT EJIW 7000 M | BEE HIVE EJIW 1040 Z & O2 | EJIW ERGO HINGED COVER W/ CAM LOCKS, STAMPED CITY OF FLINT - WATER" PER DETAILS ON THIS SHEET. |
| PRODUCT NUMBER | 00104087L01 | 00104088L01 | 00700033C01 | 00700010 00700044 | 103901 | 00104089L01 |

DEPARTMENT OF PUBLIC WORKS
ENGINEERING AND UTILITIES

TITLE: CASTING DETAIL

DRAWN BY:
CHECKED BY:
SCALE: NO SCALE
REVISIONS:
SHEET

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: NOT TO SCALE

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
STORM SEWER AND SANITARY SEWER
CITY OF FLINT CASTING DETAILS SHEET

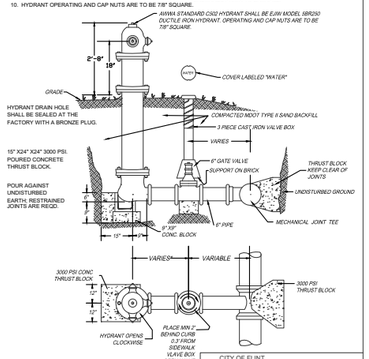
REV:

SHT# 10 OF 100
JOB No: 18C0137

R:\Projects\18C0137\Dwg\Construction Drawings\SH-18C0137-DET_FLINT.dwg
PLOTTED: 6/6/2019 8:36 AM

NOTES:

1. THE PUMPER CONNECTION SHALL FACE THE STREET.
2. SET THE HYDRANT GRADE LEVEL AT PROPOSED GRADE OR AS FIELD DIRECTED.
3. SET THE VALVE BOX COVER FLUSH WITH THE EXISTING GRADE LEVEL.
4. ALL WORK AND MATERIALS FROM THE CENTER LINE OF THE MAIN TO AND INCLUDING THE HYDRANT WILL BE PAID FOR BY UNIT PRICE BID ITEM FOR HYDRANTS.
5. ALL JOINTS SHALL BE RESTRAINED BY AN OWNER APPROVED METHOD; FIELD LOCK GASKETS, ANCHORING COUPLINGS, RODS OR THRUST BLOCKS.
6. THE CONTRACTOR MAY USE CONCRETE BRICK AND DRY MIX CONCRETE FOR THRUST BLOCKS.
7. HYDRANT BARRELS ARE TO BE PAINTED YELLOW. CAPS WILL BE COLOR CODED TO MAIN. SIZE. 4"=RED, 6"=ORANGE, 10" AND 12"=GREEN, 16" AND 20"=BROWN, 24" & GREATER=BLUE.
8. 90 DEG. HYDRANT TEES ARE APPROVED WHERE SPACE REQUIREMENTS ARE LIMITED.
9. EACH HYDRANT INSTALLATION SHALL BE INSPECTED BY WSC PERSONNEL PRIOR TO BACKFILL.
10. HYDRANT OPERATING AND CAP NUTS ARE TO BE 7/8" SQUARE.



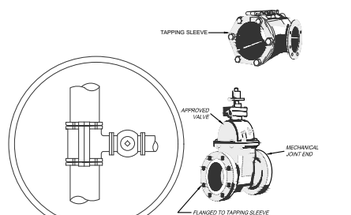

*PLACE VALVE AND BOX OUTSIDE SIDEWALK, CURB OR PAVEMENT, IDEALY IN GREENSPACE

| | |
|---|---|
| | CITY OF FLINT<br>UTILITY DEPARTMENT |
| | FIRE HYDRANT DETAIL |

SD-1W DATE: JULY 2006 APPROVED: RAF

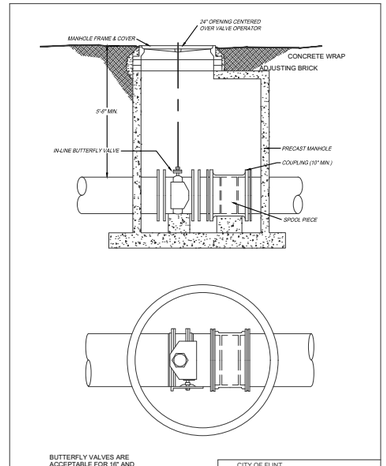
NOTES:

1. ALL PRESSURE TAPS MUST BE INSTALLED BY W.S.C. IN A CONCRETE VALVE MANHOLE (SEE WATER VALVE MANHOLE DETAIL SD-5W).
2. ALL TAPPING SLEEVES SHALL BE MECHANICAL JOINT BY FLANGED OUTLET, DUCTILE IRON BUILT IN TWO SECTIONS.
3. THE GASKET FOR MAIN LINE SHALL BE MADE FOR THE PIPE MATERIAL IN PLACE, NORMALLY DUCTILE IRON CLASS 53-54.
4. OUTLET FLANGE IS CLASS 125 ANSI B16.1.
5. TAPPING TEE SHALL HAVE A BUILT-IN TEST PLUG.
6. APPROVED MECHANICAL JOINT SLEEVE; CLOW F5205 MUELLER H-615, AMERICAN DARLING H-1004 OR EQUAL.
7. THE VALVE SHALL BE FLANGED; CONNECTED TO THE SLEEVE BY MECHANICAL JOINT TO THE LINE TO BE CONSTRUCTED.
8. THE VALVE SHALL HAVE OVERSIZE SEAT RINGS TO PERMIT ENTRY OF THE TAPPING MACHINE CUTTERS.
9. THE VALVE SHALL MEET ALL REQUIREMENTS OF AWWA C-500.
10. THE MINIMUM SIZE MANHOLE SHALL BE 5'-0" INTERNAL DIAMETER.
11. THE TOP OPENING SHALL BE CENTERED ON THE VALVE OPERATING NUT.
12. USE CITY STANDARD RING & COVER FOR COVER WITH 24" OPENING.




| | |
|---|---|
| | CITY OF FLINT<br>DPW ENGINEERING |
| | PRESSURE TAPPING SLEEVE AND VALVE |

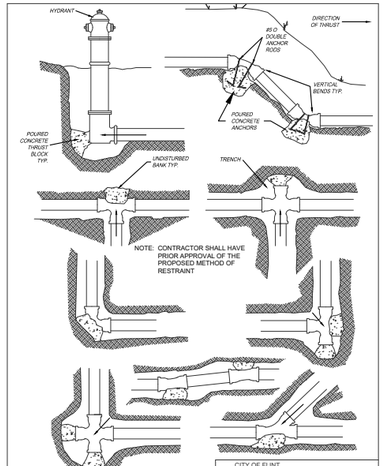
SD-2W DATE: 4-99 APPROVED: HJK




BUTTERFLY VALVES ARE ACCEPTABLE FOR 16" AND LARGER VALVES WITH 10" COUPLING PIECE IN A 6' DIAMETER MANHOLE.

| | |
|---|---|
| | CITY OF FLINT<br>DPW ENGINEERING |
| | IN-LINE BUTTERFLY VALVE |

SD-3W DATE: 4-99 APPROVED: HJK

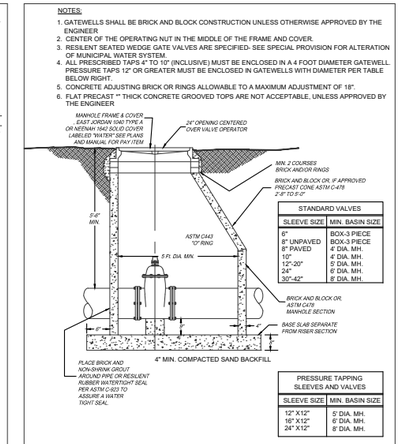



| | |
|---|---|
| | CITY OF FLINT<br>DPW ENGINEERING |
| | LOCATION OF THRUST BLOCK RESTRAINT |

SD-4W DATE: 4-99 APPROVED: HJK

NOTES:

1. GATEWELLS SHALL BE BRICK AND BLOCK CONSTRUCTION UNLESS OTHERWISE APPROVED BY THE ENGINEER
2. CENTER OF THE OPERATING NUT IN THE MIDDLE OF THE FRAME AND COVER.
3. RESILIENT SEATED WEDGE GATE VALVES ARE SPECIFIED- SEE SPECIAL PROVISION FOR ALTERATION OF MUNICIPAL WATER SYSTEM.
4. ALL PRESCRIBED TAPS 4" TO 10" (INCLUSIVE) MUST BE ENCLOSED IN A 4 FOOT DIAMETER GATEWELL. PRESSURE TAPS 12" OR GREATER MUST BE ENCLOSED IN GATEWELLS WITH DIAMETER PER TABLE BELOW RIGHT.
5. CONCRETE ADJUSTING BRICK OR RINGS ALLOWABLE TO A MAXIMUM ADJUSTMENT OF 18".
6. FLAT PRECAST "" THICK CONCRETE GROOVED TOPS ARE NOT ACCEPTABLE, UNLESS APPROVED BY THE ENGINEER

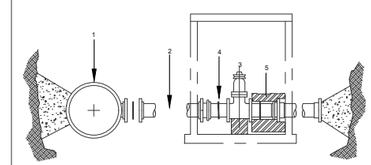



| STANDARD VALVES | |
|---|---|
| SLEEVE SIZE | MIN. BASIN SIZE |
| 6" | BOX-3 PIECE |
| 8" UNPAVED | BOX-3 PIECE |
| 8" PAVED | 4' DIA. MH. |
| 10" | 4' DIA. MH. |
| 12"-20" | 5' DIA. MH. |
| 24" | 6' DIA. MH. |
| 30"-42" | 8' DIA. MH. |

| PRESSURE TAPPING SLEEVES AND VALVES | |
|---|---|
| SLEEVE SIZE | MIN. BASIN SIZE |
| 12" X12" | 5' DIA. MH. |
| 16" X12" | 6' DIA. MH. |
| 24" X12" | 8' DIA. MH. |

| | |
|---|---|
| | CITY OF FLINT<br>DPW ENGINEERING |
| | WATER VALVE MANHOLE |

SD-5W DATE: 4-99 APPROVED: HJK



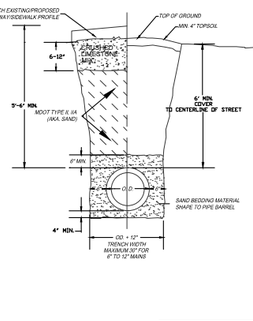

1. MECHANICAL JOINT MAINLINE TEE WITH MECHANICAL JOINT OUTLET FOR FUTURE VALVE.
2. ANCHORING COUPLING.
3. RESILENT SEATED GATE VALVE MECHANICAL JOINT X MECHANICAL JOINT.
4. FOR VALVES REQUIRING A MANHOLE, EXTEND ONE LENGTH OF PIPE AFTER THE VALVE. PLACE CONCRETE BRACED ENDCAP.
5. PLACE WOOD BRACING INSIDE MANHOLE AFTER VALVE.

| | |
|---|---|
| | CITY OF FLINT<br>DPW ENGINEERING |
| | FUTURE VALVE |

SD-6W DATE: 4-99 APPROVED: HJK

NOTES

1. PLACE 12" MDOT 23A CRUSHED LIMESTONE AT 95% MODIFIED PROCTOR ON THE COMPACTED SAND BACKFILL FOR ALL DRIVES, ROADS, PARKING LOTS, OR OTHER HARD SURFACED AREAS.
2. THE CONTRACTOR SHALL COMPACT MDOT TYPE II BACKFILL TO 95% MODIFIED PROCTOR IN 12" MAXIMUM LIFTS. THIS INCLUDES SERVICE LEADS UNLESS BORED. TESTING SHALL BE DONE BY THE CONTRACTOR WITH THE TEST RESULTS GIVEN TO WSC PRIOR TO FINAL TESTING.
3. WHERE THE GROUND ELEVATION AT THE TRENCH LINE IS ABOVE THE ELEVATION OF THE CENTERLINE OF THE ROAD, THE CONTRACTOR SHALL INSTALL THE WATERLINE 6' BELOW THE ELEVATION OF THE CENTERLINE OF THE ROAD. THE EXTRA DEPTH SHALL BE NOTED ON THE AS-BUILT DRAWINGS.

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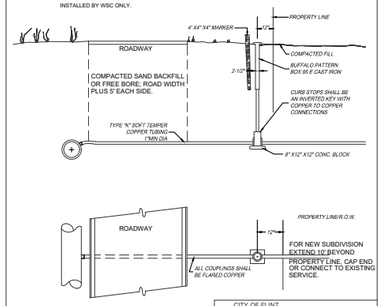
|---|---|
| | CITY OF FLINT<br>DPW ENGINEERING |
| | WATER MAIN BEDDING AND BACKFILL-TR DET G |

SD-7W DATE: 4-99 APPROVED: HJK

1. WATER SERVICE SHALL BE TUNNELLED(OR OPEN CUT-SEE PLANS)UNDER EXISTING PAVEMENTS STARTING A MINIMUM OF 3 FEET BACK OF CURB OR HARD SURFACING EDGE.
2. A 4' X4" X4" WOODEN MARKER PAINTED BLUE IS REQUIRED FOR ALL WATER SERVICE TAPS WHERE THE SERVICE LEAD IS NOT CONNECTED TO THE SHUT OFF VALVE. THE CONTRACTOR SHALL EXCAVATE AND BACKFILL FOR ALL JOBS.
3. THE VALVE BOX SHALL BE CAST IRON AND A MINIMUM OF 6 FEET IN LENGTH.
4. CURB STOPS SHALL BE INVERTED KEY VALVES FOR 3/4" AND 1" DIAMETER AND BALL VALVES FOR 1 1/2" AND 2" DIAMETER WITH COPPER TO COPPER CONNECTIONS. STOPS SHALL BE FORD F-600, FB-600 OR EQUAL. USE BRASS DOUBLE STRAPS FOR 1 1/2" AND 2" TAPS.
5. THE CONTRACTOR WILL SUPPLY ALL CURB AND VALVE BOXES FOR SERVICE 2" & UNDER. THE INSTALLATION SHALL BE DONE BY WSC EMPLOYEES AND OPEN TRENCHED AND BACKFILLED BY THE CONTRACTOR. OR JACKING AND BORING. THE CONTRACTOR SHALL SUPPLY ALL K-COPPER
6. IF THE PUBLIC WATER MAIN IS ON AN EASEMENT, THE CURB STOP SHALL BE PLACED WITHIN THAT EASEMENT.
7. WATER SERVICE TO BE PLACED AT THE CENTER OF FRONTAGE, WITH SANITARY SERVICE(10' SEPERATION), AS OR AS NOTED ON THE PLANS.
8. EXCAVATION & BORING TO BE DONE BY CITY LICENSED CONTRACTOR . TAP & SERVICE LINE INSTALLED BY WSC ONLY.

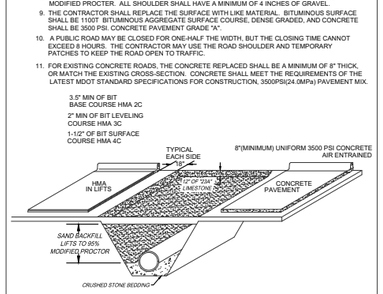



| | |
|---|---|
| | CITY OF FLINT<br>DPW ENGINEERING |
| | 1" WATER SERVICE CONNECTIONS |

SD-8W DATE: 4-99 APPROVED: HJK

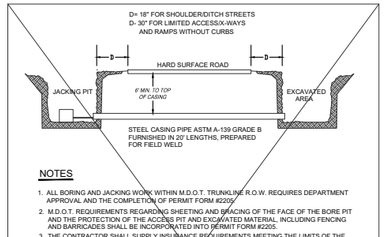
SPECIAL PROVISIONS FOR OPEN CUTTING
HARD SURFACE AND/OR GRAVEL ROADS

1. THE CONTRACTOR SHALL ACQUIRE A SPECIAL OPEN CUT APPROVAL FROM THE CITY OF FLINT DEPARTMENT OF PUBLIC WORKS.
2. THE PROTECTION OF THE WORK SHALL BE IN ACCORDANCE WITH THE MICHIGAN MANUAL UNIFORM TRAFFIC CONTROL DEVICES, BARRACADES, WARNINGS AND LIGHTING NECESSARY FOR PUBLIC SAFETY SHALL BE INSTALLED.
3. FOR HARD SURFACE ROADS, THE CONTRACTOR SHALL SAW-CUT THE SURFACE ON BOTH SIDES OF THE TRENCH TO THE ANTICIPATED WIDTH OF THE TRENCH PLUS 36 INCHES.
4. THE CONTRACTOR SHALL EXCAVATE ALL MATERIAL TO THE PROPOSED GRADE.
5. THE UTILITY SHALL BE PLACED ON A 4 INCH PREPARED SAND CUSHION.
6. ALL BACK-FILL SHALL BE MDOT TYPE II BACK-FILL, PLACED IN ONE FOOT LIFTS THAT ARE COMPACTED TO 95% MODIFIED PROCTOR.
7. THE SAND BACK-FILL SHALL EXTEND FROM THE OUTSIDE EDGE OF THE ROAD SHOULDER TO THE OUTSIDE EDGE OF THE OPPOSITE SHOULDER FOR CURB AND GUTTER SECTIONS AND SHALL BE 5 FEET FROM THE CURB ON EACH SIDE OF THE ROAD.
8. THE FINAL 12 INCHES OF ALL BACK-FILL SHALL BE 23AA LIMESTONE, COMPACTED TO 95% MODIFIED PROCTER. ALL SHOULDER SHALL HAVE A MINIMUM OF 4 INCHES OF GRAVEL.
9. THE CONTRACTOR SHALL REPLACE THE SURFACE WITH LIKE MATERIAL. BITUMINOUS SURFACE SHALL BE 1100T BITUMINOUS AGGREGATE SURFACE COURSE, DENSE GRADED, AND CONCRETE SHALL BE 3500 PSI. CONCRETE PAVEMENT GRADE "A".
10. A PUBLIC ROAD MAY BE CLOSED FOR ONE-HALF THE WIDTH, BUT THE CLOSING TIME CANNOT EXCEED 8 HOURS. THE CONTRACTOR MAY USE THE ROAD SHOULDER AND TEMPORARY PATCHES TO KEEP THE ROAD OPEN TO TRAFFIC.
11. FOR EXISTING CONCRETE ROADS, THE CONCRETE REPLACED SHALL BE A MINIMUM OF 8" THICK, OR MATCH THE EXISTING CROSS-SECTION. CONCRETE SHALL MEET THE REQUIREMENTS OF THE LATEST MDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION, 3500PSI(24.0MPa) PAVEMENT MIX.




| | |
|---|---|
| | CITY OF FLINT<br>DPW ENGINEERING |
| | OPEN CUTTING OF ROADS |

SD-9W DATE: 4-99 APPROVED: HJK




NOTES

1. ALL BORING AND JACKING WORK WITHIN M.D.O.T. TRUNKLINE R.O.W. REQUIRES DEPARTMENT APPROVAL AND THE COMPLETION OF PERMIT FORM #2205.
2. M.D.O.T. REQUIREMENTS REGARDING SHEETING AND SPACING OF THE FACE OF THE BORE PIT AND THE PROTECTION OF THE ACCESS PIT AND EXCAVATED MATERIAL, INCLUDING FENCING AND BARRICADES SHALL BE INCORPORATED INTO PERMIT FORM #2205.
3. THE CONTRACTOR SHALL SUPPLY INSURANCE REQUIREMENTS MEETING THE LIMITS OF THE M.D.O.T. MEMO OF 1/13/89 PRIOR TO RECEIVING A PERMIT TO CONSTRUCT.
4. THE LEADING EDGE OF THE CASING PIPE SHALL PRECEDE THE AUGER BY A LENGTH EQUAL TO OR GREATER THAN 1/2 THE DIAMETER OF THE CASING.
5. THE ANNULAR VOID BETWEEN THE CASING AND THE CARRIER PIPE SHALL BE FILLED WITH PEASTONE. THE ENDS OF THE CASING PIPE SHALL BE BULKHEADED WITH AN 8" WATERTIGHT MASONRY BULKHEAD.
6. THE JOINTS SHALL BE KEPT ON GRADE WITH WOOD SKIDS AND METAL BANDS UNTIL THE PLACEMENT OF THE PEASTONE.

| SIZE & MATERIAL | MIN. CASING DIA. O.D. INCHES | MIN. WALL THICKNESS INCHES |
|---|---|---|
| 8" D.I. WATER MAIN OR SMALLER | 12.75 | 0.188 |
| 6" SANITARY SEWER V.C.P.OR P.V.C. | | |
| 10"-12" D.I. WATER MAIN | 20.00 | 0250 |
| 8"-10" SANITARY SEWER | | |
| 16" D.I. WATER MAIN | 24.00 | 0.250 |
| 12"-15" SANITARY SEWER | | |
| 20"-24" D.I. WATER MAIN | 30.00 | 0.312 |
| 18" SANITARY SEWER CONCRETE | | |
| 21"-24" SANITARY SEWER CONCRETE | 36.00 | 0.312 |

"D" DIMENSION PAVEMENT FACE OF BORE PIT

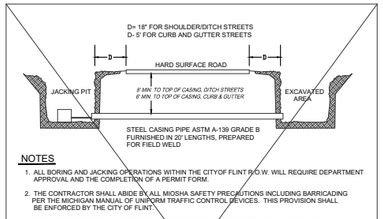
1. FREEWAY AND LIMITED ACCESS R.O.W. FOR EXPRESSWAY AND RAMPS.....10'
2. FREEWAY AND LIMITED ACCESS R.O.W. HAVING GUARD RAILOR CURB.....20'
3. UNCURBED ROADWAYS, FREE ACCESS.....15'
4. CURBED ROADWAYS, FREE ACCESS.....10'

1. ALL LATEST REVISIONS OF MDOT FORMS AND MEMOS ARE INCORPORATED.
2. MDOT ACCEPTS THE ALTERNATIVE OF A MINIMUM CASING THICKNESS OR 0.375 WALL THICKNESS( CITY STANDARD).

| | |
|---|---|
| | CITY OF FLINT<br>DPW ENGINEERING |
| | BORE & JACK CONSTRUCTION ON STATE ROADS |

SD-10W DATE: 4-99 APPROVED: HJK

D= 18" FOR SHOULDER/DITCH STREETS
D- 5' FOR CURB AND GUTTER STREETS



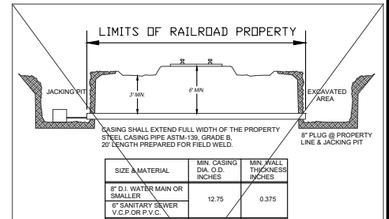

NOTES

1. ALL BORING AND JACKING OPERATIONS WITHIN THE CITYOF FLINT R.O.W. WILL REQUIRE DEPARTMENT APPROVAL AND THE COMPLETION OF A PERMIT FORM.
2. THE CONTRACTOR SHALL ABIDE BY ALL MIOSHA SAFETY PRECAUTIONS INCLUDING BARRICADING PER THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. THIS PROVISION SHALL BE ENFORCED BY THE CITY OF FLINT.
3. THE CONTRACTOR SHALL PROTECT AND/OR RESTORE ALL PROPERTY WITHIN THE ROAD R.O.W.
4. THE CONTRACTOR SHALL ABIDE BY ALL PERTINENT STANDARDS FOR SANITARY SEWER AND WATER MAIN INSTALLATION WITHIN THE RIGHT-OF WAY.
5. THE SHEETING OF THE FRONT FACE OF THE BORING PIT WILL BE REQUIRED IF UNSTABLE SOIL CONDITIONS ARE ENCOUNTERED.
6. THE CASING PIPE MUST ALWAYS PRECEDE THE AUGER HEAD.
7. THE CONTRACTOR SHALL NOTIFY THE PERMITTING AGENT 72 HOURS PRIOR TO BEGINNING CONSTRUCTION.
10. A WOOD SKID AND METAL BAND MUST BE INSTALLED AT ALL JOINTS TO MAINTAIN ALIGNMENT.
11. BOTH ENDS OF THE CASING PIPE SHALL BE BULKHEADED WITH AN 8" DEEP WATERTIGHT MASONRY BULKHEAD.

| SIZE & MATERIAL | MIN. CASING DIA. O.D. INCHES | MIN. WALL THICKNESS INCHES |
|---|---|---|
| 8" D.I. WATER MAIN OR SMALLER | 12.75 | 0.375 |
| 6" SANITARY SEWER V.C.P.OR P.V.C. | | |
| 10"-12" D.I. WATER MAIN | 20.00 | 0.375 |
| 8"-10" SANITARY SEWER | | |
| 16" D.I. WATER MAIN | 24.00 | 0.375 |
| 12"-15" SANITARY SEWER | | |
| 20"-24" D.I. WATER MAIN | 30.00 | 0.406 |
| 18" SANITARY SEWER CONCRETE | | |
| 21"-24" SANITARY SEWER CONCRETE | 36.00 | 0.469 |

| | |
|---|---|
| | CITY OF FLINT<br>DPW ENGINEERING |
| | BORE & JACK CONSTRUCTION ON CITY OF FLINT STREETS |

SD-11W DATE: 4-99 APPROVED: HJK




| SIZE & MATERIAL | MIN. CASING DIA. O.D. INCHES | MIN. WALL THICKNESS INCHES |
|---|---|---|
| 8" D.I. WATER MAIN OR SMALLER | 12.75 | 0.375 |
| 6" SANITARY SEWER V.C.P. OR P.V.C. | | |
| 10"-12" D.I. WATER MAIN | 20.00 | 0.375 |
| 8"-10" SANITARY SEWER | | |
| 16" D.I. WATER MAIN | 24.00 | 0.406 |
| 12"-15" SANITARY SEWER | | |
| 20"-24" D.I. WATER MAIN | 30.00 | 0.469 |
| 18" SANITARY SEWER CONCRETE | | |
| 21"-24" SANITARY SEWER CONCRETE | 36.00 | 0.531 |

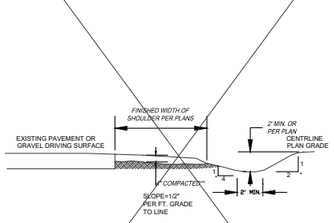
NOTES

1. THE CONTRACTOR SHALL SECURE WRITTEN APPROVAL OF ALL INSTALLATION PROCEEDURES FROM THE RAILROAD COMPANY.
2. THE BORE AND JACK OPERATION UNDER RAILROAD RIGHT OF WAY SHALL BE ON A CONTINUOUS BASIS.
3. THE CONTRACTOR SHALL ABIDE BY ALL CONDITIONS OF THE RAILROAD LICENSE ISSUED TO THE OWNER FOR INSTALLATION. THE PROPER INSURANCE AND/OR BONDS WILL BE SUPPLIED BY THE CONTRACTOR.
4. THE CONTRACTOR SHALL BE REQUIRED TO PAY ALL RAILROAD INSPECTION FEES FOR PLAN REVIEW AND FIELD INSPECTION.
5. THE RAILROAD SHALL BE NOTIFIED 72 HOURS PRIOR TO THE STARTING OF CONSTRUCTION.
6. THE CASING PIPE SHALL EXTEND THE FULL WIDTH OF THE RAILROAD RIGHT OF WAY.
7. A WOOD SKID AND METAL BAND MUST BE INSTALLED AT ALL JOINTS TO MAINTAIN ALIGNMENT. -SEE CARRIER PIPE DETAIL ON DETAIL SHEET
8. BOTH ENDS OF THE CASING PIPE SHALL BE BULKHEADED WITH AN 8" DEEP WATERTIGHT MASONRY BULKHEAD.

| | |
|---|---|
| | CITY OF FLINT<br>DPW ENGINEERING |
| | BORE & JACK CONSTRUCTION ON RAILROAD RIGHT OF WAY |

SD-12W DATE: 4-99 APPROVED: HJK

TYPICAL SHOULDER/DITCH RESTORATION ON ROAD FOLLOWING SEWER OR WATER MAIN INSTALLATION WHERE SHOULDER WAS DAMAGED BUT NOT UNDERMINED.




METHOD A

* OR ACCORDING TO ORIGINAL PLAN SLOPE OR FLATTER
** CLASS "A" AGGREGATE SHOULDER EST. 12 TON/100' STATION MATERIAL SHALL BE MDOT 23A.

| | |
|---|---|
| | CITY OF FLINT<br>DPW ENGINEERING |
| | SHOULDER/DITCH RESTORATION ON CITY STREETS |

SD-13W DATE: 4-99 APPROVED: HJK

MINIMUM PIPE RESTRAINT SCHEDULE FOR GROUND BURIED PRESSURE PIPES (1)

LENGTH IN FEET OF RESRAINT REQUIRED (2)

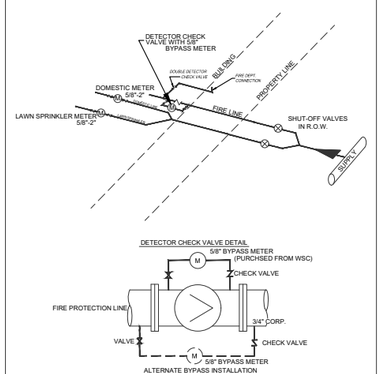
| DEFLECTION ANGLE | 22 1/2° | 33 3/4° | 45° | 56 1/4° | 67 1/2° | 78 3/4° | 90° TEE OR DEAD END |
|---|---|---|---|---|---|---|---|
| PIPE | | | | | | | |
| 6" | 3 | 6 | 11 | 16 | 23 | 29 | 37 |
| 8" | 4 | 8 | 15 | 22 | 31 | 41 | 50 |
| 10" | 5 | 11 | 18 | 28 | 38 | 49 | 61 |
| 12" | 6 | 13 | 22 | 33 | 45 | 59 | 73 |
| 14" | 7 | 14 | 25 | 37 | 52 | 68 | 84 |
| 16" | 8 | 16 | 28 | 42 | 59 | 77 | 95 |
| 18" | 8 | 18 | 31 | 47 | 66 | 86 | 107 |
| 20" | 9 | 20 | 35 | 53 | 73 | 95 | 118 |
| 24" | 11 | 23 | 40 | 61 | 85 | 111 | 138 |
| 30" | 13 | 29 | 50 | 75 | 105 | 136 | 170 |
| 36" | 15 | 34 | 59 | 88 | 123 | 160 | 199 |
| 42" | 17 | 39 | 67 | 101 | 141 | 184 | 228 |
| 48" | 19 | 43 | 75 | 113 | 157 | 206 | 255 |

1. THIS TABLE IS BASED ON A TEST PRESSURE OF 180 PSI. (OPERATING PRESSURE + WATER HAMMER). FOR OTHER TEST PRESSURES, ALL VALUES ARE TO BE INCREASED PROPORTIONLLY.
2. IN EACH DIRECTION FROM POINT OF DEFLECTION OR TERMINATION EXCEPT FOR A TEE AT WHICH ONLY THE BRANCH IN THE DIRECTION OF THE TEE STEM.
3. IF TIE RODS ARE USED, PLACE 2 RODS 5/8" DIAMETER MINIMUM FOR WATER MAIN 6" TO 10" AND 4 RODS 5/8" DIAMETER MINIMUM FOR 12" AND LARGER.

| | |
|---|---|
| | CITY OF FLINT<br>DPW ENGINEERING |
| | MINIMUM PIPE RESTRAINT SCHEDULE |

SD-14W DATE: 4-99 APPROVED: HJK

FIRE PROTECTION LINE
VALVE & METER INSTALLATION



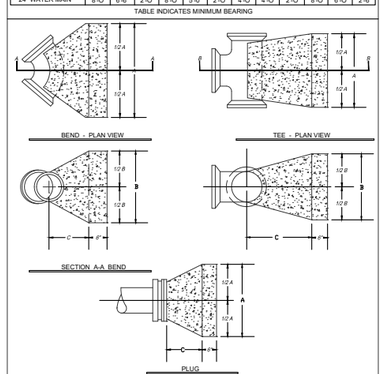

NOTE:
DETECTOR CHECK VALVE SHALL BE MUELLER A-2600-6-02, OR APPROVED EQUAL, TAPPED AT FACTORY OR BYPASS METER.

| | |
|---|---|
| | DPW ENGINEERING |
| | FIRE PROTECTION LINE VALVE & METER INSTALLATION |

SD-15W DATE: 4-99 APPROVED: HJK

| DIA. OF PIPE OR BRANCH OF TEE | 90° BEND OR SMALLER | | | 45° BEND | | | 22 1/2° BEND | | | PLUGS, HYDRANTS AND TEE | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | C | A | B | C | A | B | C | A | B | C |
| 6" WATER MAIN | 2'-0" | 2'-0" | 0'-9" | 2'-0" | 1'-0" | 0'-9" | 2'-0" | 1'-0" | 0'-9" | 2'-0" | 2'-0" | 1'-0" |
| 8" WATER MAIN | 3'-0" | 2'-0" | 1'-0" | 2'-8" | 2'-0" | 1'-3" | 2'-0" | 1'-0" | 1'-0" | 3'-0" | 2'-0" | 1'-9" |
| 12" WATER MAIN | 4'-0" | 3'-0" | 1'-6" | 3'-0" | 3'-0" | 1'-6" | 2'-0" | 2'-0" | 1'-6" | 4'-0" | 3'-0" | 2'-0" |
| 14" WATER MAIN | 6'-0" | 4'-0" | 1'-6" | 4'-0" | 4'-0" | 1'-6" | 3'-0" | 3'-0" | 1'-6" | 5'-0" | 4'-0" | 2'-0" |
| 24" WATER MAIN | 8'-0" | 6'-6" | 2'-0" | 8'-0" | 5'-0" | 2'-0" | 4'-0" | 4'-0" | 2'-0" | 8'-0" | 6'-0" | 2'-6" |

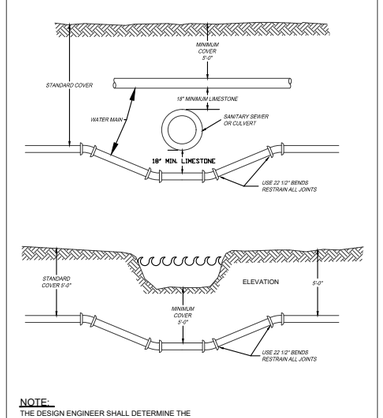
TABLE INDICATES MINIMUM BEARING




1. USE 3000 PSI CONCRETE FOR ALL THRUST BLOCKS.
2. POUR AGAINST UNDISTURBED SOIL.
3. KEEP BOLTS, FITTINGS AND JOINTS CLEAR OF CONCRETE.
4. BEARING AREA IS FIGURED ON 2000 PSI SOIL CAPACITY.

| | |
|---|---|
| | CITY OF FLINT<br>DPW ENGINEERING |
| | THRUST BLOCK DETAILS |

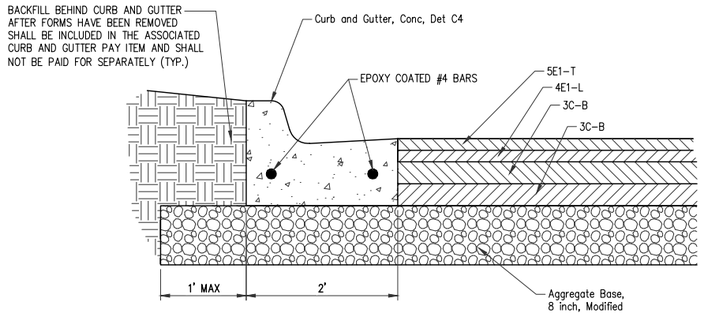
SD-16W DATE: 4-99 APPROVED: HJK




NOTE:
THE DESIGN ENGINEER SHALL DETERMINE THE FIELD ELEVATION AT THE DRAIN BOTTOM AND NOTE AN ELEVATION ON THE PLAN PROFILE VIEW.

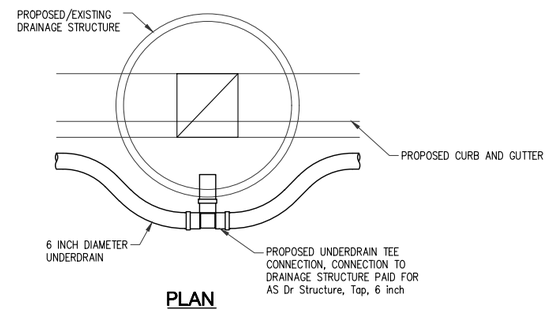
| | |
|---|---|
| | CITY OF FLINT<br>DPW ENGINEERING |
| | WATER MAIN BURY AT COUNTY DRAIN DITCH OR STREAM |

SD-17W DATE: 4




## BUS STOP LANE CROSS SECTION

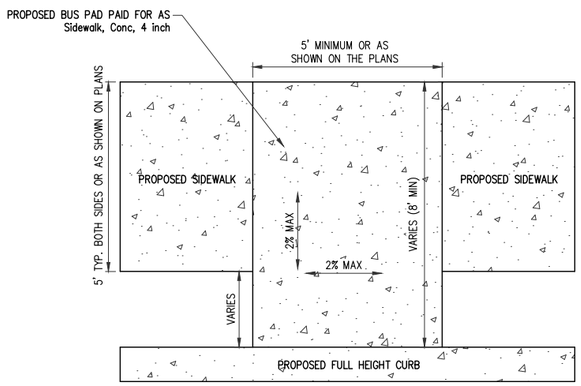
NOT TO SCALE




PLAN

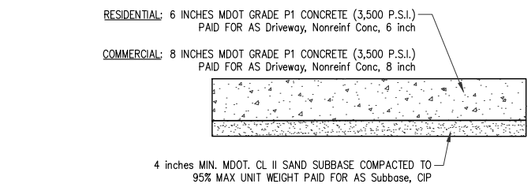
## UNDERDRAIN DETAIL

NOT TO SCALE

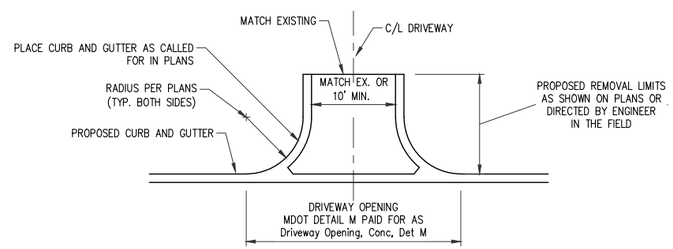



## BUS STOP PAD DETAIL

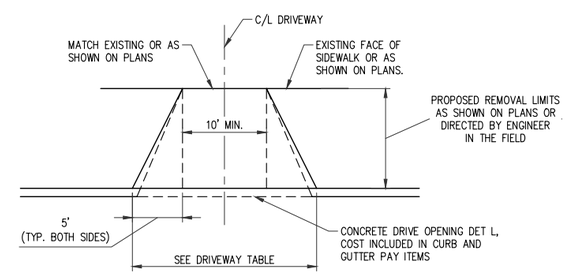
NOT TO SCALE




CROSS SECTION




## COMMERCIAL DRIVE



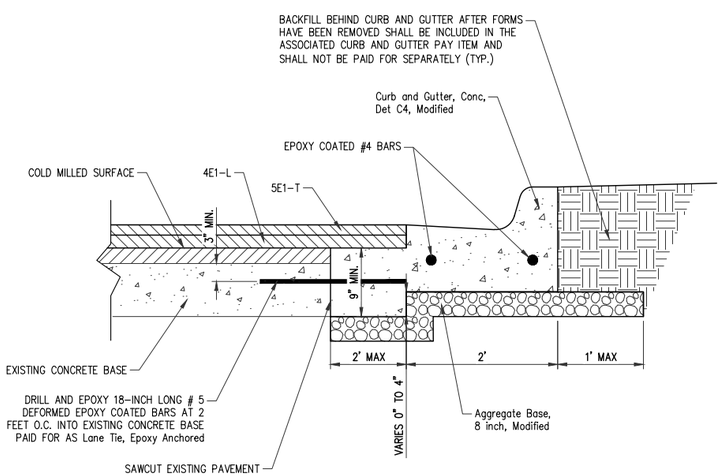

## RESIDENTIAL DRIVE

NOTES:

1. THE CONTRACTOR SHALL NOTIFY ALL PROPERTY OWNERS 24 TO 72 HOURS IN ADVANCE OF DRIVEWAY APPROACH REPLACEMENT.
2. DRIVEWAY RECONSTRUCTION SHALL BE FROM THE BACK OF CURB TO THE SIDEWALK OR R.O.W. UNLESS OTHERWISE SHOWN ON PLANS OR DIRECTED BY THE ENGINEER.
3. ACCESS TO ALL DRIVEWAYS SHALL BE MAINTAINED AT ALL TIMES. DRIVEWAYS SHALL BE CONSTRUCTED HALF WIDTH TO FACILITATE ACCESS UNLESS OTHERWISE DIRECTED BY THE ENGINEER. NO ADDITIONAL COMPENSATION WILL BE PROVIDED FOR PART WIDTH DRIVEWAY CONSTRUCTION. SEE SPECIAL PROVISION FOR MAINTAINING TRAFFIC FOR ADDITIONAL DETAILS.
4. ALL DRIVEWAY APPROACHES SHALL BE RESTORED WITH CONCRETE OTHERWISE NOTED ON PLANS.

## DRIVEWAY APPROACH DETAIL

NOT TO SCALE

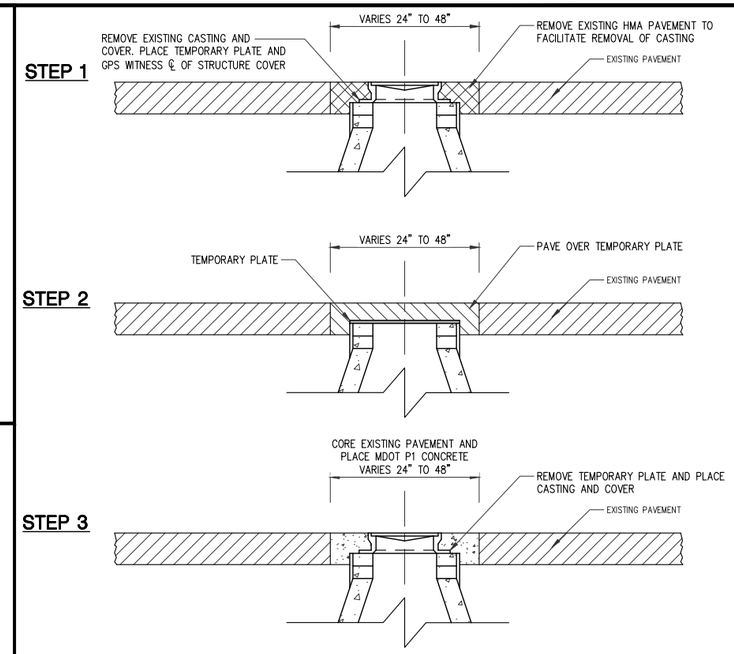



### NOTES

1. FOR USE WITH PAVEMENT REPAIRS LESS THAN 2' WIDE OUTSIDE OF WATER MAIN TRENCH REPAIR LIMITS AS SHOWN ON THE PLANS AND DIRECTED BY THE ENGINEER IN THE FIELD.

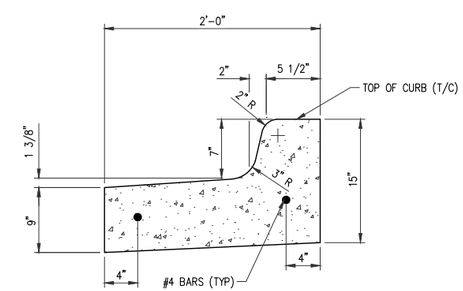
## CONCRETE CURB AND GUTTER DETAIL MDOT C-4, MODIFIED

NOT TO SCALE




## MANHOLE COVER, ADJ DETAIL

NOT TO SCALE




## C4 SPILL CURB DETAIL

NOT TO SCALE

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: NOT TO SCALE

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

PREPARED FOR
CITY OF FLINT
COURT STREET REHABILITATION

MISCELLANEOUS ROAD AND PAVING DETAILS SHEET

REV:



JOB No: 18C0137

R:\Projects\18C0137\Dwg\Construction Drawings\SH-18C0137-DET.dwg
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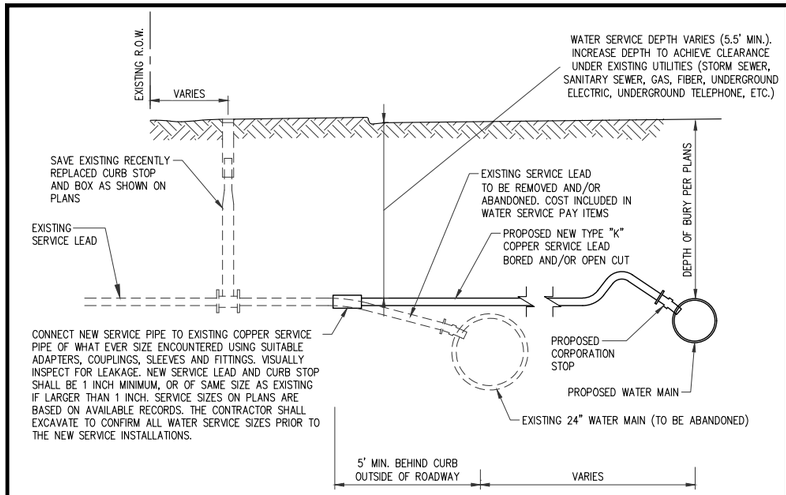
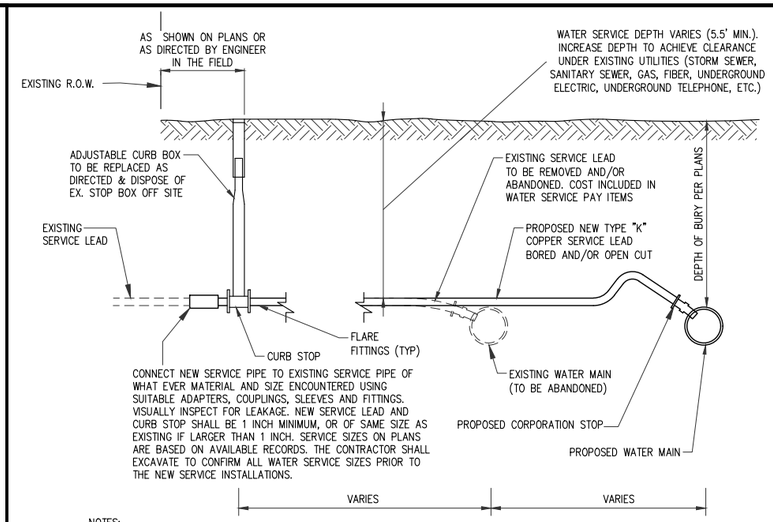



NOTES:

1. THIS DETAIL APPLIES FROM STA. 16+50 TO STA. 40+50 ALONG THE EXISTING 24" TRANSMISSION WATER MAIN WHERE WATER SERVICES WERE RECENTLY REPLACED AS PART OF THE CITY OF FLINT WATER SERVICE REPLACEMENT PROGRAM.
2. NEW WATER SERVICES SHALL BE PROVIDED AS DIRECTED BY THE ENGINEER OR CITY IN THE FIELD. REMOVAL AND DISPOSAL OF EXISTING WATER SERVICES, CURB STOPS, AND CURB STOP BOXES SHALL BE INCLUDED IN THE WATER SERVICE PAY ITEMS AND SHALL NOT BE PAID FOR SEPARATELY.
3. THE CONTRACTOR SHALL CONFIRM THE DEPTH AND LOCATION OF ALL EXISTING UTILITY CROSSINGS PRIOR TO SERVICE INSTALLATION AND MAKE ANY NECESSARY ADJUSTMENTS IN SERVICE DEPTH AND ACHIEVE CLEARANCE UNDER EXISTING UTILITIES.
4. WATER SERVICE TRANSFERS AND SHUT DOWNS SHALL BE COMPLETED BETWEEN THE HOURS OF MIDNIGHT AND 4:00 AM WHERE MAJOR WATER USERS (RESTAURANTS, HOTELS, MEDICAL FACILITIES) WILL BE AFFECTED. THE CONTRACTOR SHALL PROVIDE ALL LIGHTING NECESSARY TO COMPLETE THE WORK AT NO ADDITIONAL COST TO THE PROJECT.

## WATER MAIN WATER SERVICE LEAD TRANSFER DETAIL PARTIAL REPLACEMENT

NOT TO SCALE

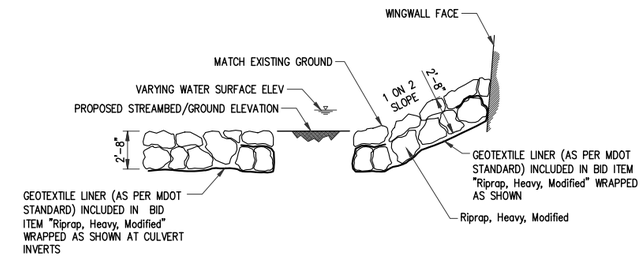



NOTES:

1. THIS DETAIL APLIES FROM STA. 16+50 TO STA. 40+50 ALONG THE EXISTING 24" TRANSMISSION WATER MAIN WHERE WATER SERVICES WERE NOT RECENTLY REPLACED AS PART OF THE CITY OF FLINT WATER SERVICE REPLACEMENT PROGRAM.
2. THIS DETAIL ALSO APPLIES FROM STA. 40+50 TO THE P.O.E. ALONG THE PROPOSED 12" WATER MAIN.
3. NEW WATER SERVICES SHALL BE PROVIDED AS DIRECTED BY THE ENGINEER OR CITY IN THE FIELD. REMOVAL AND DISPOSAL OF EXISTING WATER SERVICES, CURB STOPS, AND CURB STOP BOXES SHALL BE INCLUDED IN THE WATER SERVICE PAY ITEMS AND SHALL NOT BE PAID FOR SEPARATELY.
4. THE CONTRACTOR SHALL CONFIRM THE DEPTH AND LOCATION OF ALL EXISTING UTILITY CROSSINGS PRIOR TO SERVICE INSTALLATION AND MAKE ANY NECESSARY ADJUSTMENTS IN SERVICE DEPTH AND ACHIEVE CLEARANCE UNDER EXISTING UTILITIES.
5. WATER SERVICE TRANSFERS AND SHUT DOWNS SHALL BE COMPLETED BETWEEN THE HOURS OF MIDNIGHT AND 4:00 AM WHERE MAJOR WATER USERS (RESTAURANTS, HOTELS, MEDICAL FACILITIES) WILL BE AFFECTED. THE CONTRACTOR SHALL PROVIDE ALL LIGHTING NECESSARY TO COMPLETE THE WORK AT NO ADDITIONAL COST TO THE PROJECT.

## WATER MAIN WATER SERVICE LEAD TRANSFER DETAIL FULL REPLACEMENT

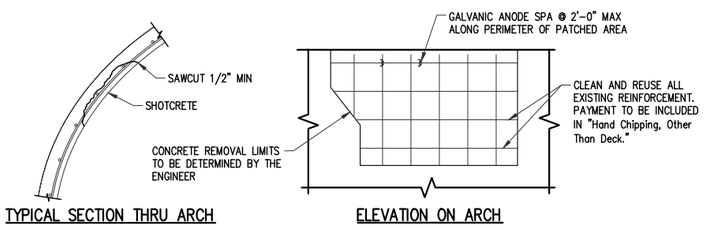
NOT TO SCALE




## RIPRAP DETAIL - WINGWALLS

SCALE: 3/16" = 1'-0"

RIPRAP HEADERS TO BE INCLUDED IN BID ITEM "RIPRAP, HEAVY, MODIFIED"




## TYPICAL SUBSTRUCTURE REPAIRS

SCALE 1/4" = 1'-0"

## SUBSTRUCTURE REPAIR NOTES

CONCRETE SUBSTRUCTURE REPAIRS TO BE PERFORMED ON UNDERSIDE OF BRIDGE ARCH.

CONCRETE REMOVAL LIMITS OF SUBSTRUCTURE REPAIRS TO BE DETERMINED BY THE ENGINEER.

CLEAN AND REUSE ALL EXISTING REINFORCEMENT. PAYMENT TO BE INCLUDED IN "Hand Chipping, Other Than Deck".

SAWCUT PERIMETER OF REPAIR 1/2" DEEP, MINIMUM. PAYMENT INCLUDED IN "Hand Chipping, Other Than Deck".

EMBEDDED GALVANIC ANODES SHALL BE INSTALLED ALONG EDGES OF SUBSTRUCTURE REPAIR AREAS. SPACE GALVANIC ANODES AT 2'-0" MAX ALONG PERIMETER OF PATCHED AREA. PAYMENT INCLUDED IN "Vertical and Overhead Structure Repairs, Shotcrete".

USE GALVANIZED OR EPOXY-COATED WELDED WIRE REINFORCING ON REPAIRS GREATER THAN 2 INCHES DEEP. PLACE THE REINFORCING AT MID-DEPTH OF THE REPAIR, AND AT LEAST 1 INCH BELOW THE SURFACE.

CONCRETE SURFACE COATING SHALL BE APPLIED TO THE ENTIRE EXPOSED SURFACE OF THE BRIDGE. THE ESTIMATE AREA OF COATING IS 73 SYD.

## GENERAL NOTES

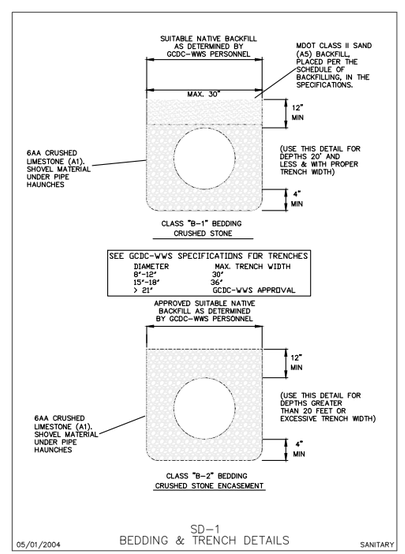
THE WORK COVERED BY THESE PLANS INCLUDES SUBSTRUCTURE CONCRETE REPAIRS.

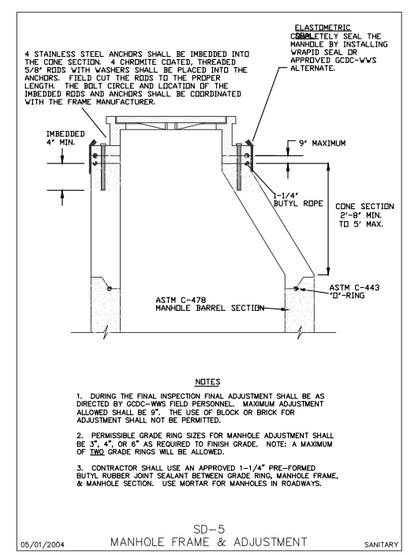
THE CONTRACTOR SHALL LOCATE ALL ACTIVE UTILITIES PRIOR TO STARTING WORK AND SHALL CONDUCT HIS OPERATION IN SUCH A MANNER AS TO ENSURE THAT THOSE UTILITIES NOT REQUIRING REPLICATION WILL NOT BE DISTURBED.

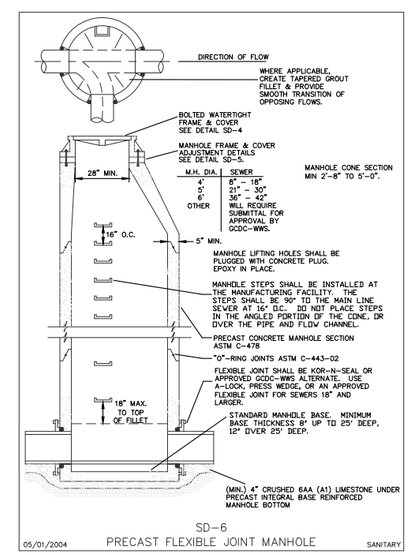
COURT STREET TRAFFIC IS TO BE DETOURED OVER OTHER EXISTING ROADS DURING CONSTRUCTION.

THE WATER LEVEL IS SUBJECT TO CHANGE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING A DETERMINATION OF WATER LEVELS THAT MAY EXIST DURING CONSTRUCTION.

MEASURES SHALL BE TAKEN TO PREVENT DEBRIS FROM FALLING FROM THE STRUCTURE. IF DEBRIS FALLS INTO THE WATERWAY, IT SHALL BE REMOVED WITHIN 24 HOURS. SINCE DISTURBANCE OF THE WATERWAY MAY BE HARMFUL AS THE DEBRIS ITSELF, THE PREVENTATIVE MEASURES MUST BE EFFECTIVE.




## CITY OF FLINT SANITARY SEWER STANDARD DETAILS

NOT TO SCALE

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: NOT TO SCALE


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


PREPARED FOR
CITY OF FLINT
COURT STREET REHABILITATION
MISCELLANOUS UTILITY DETAILS SHEET

REV:

SHT# 13 OF 100

JOB No: 18C0137

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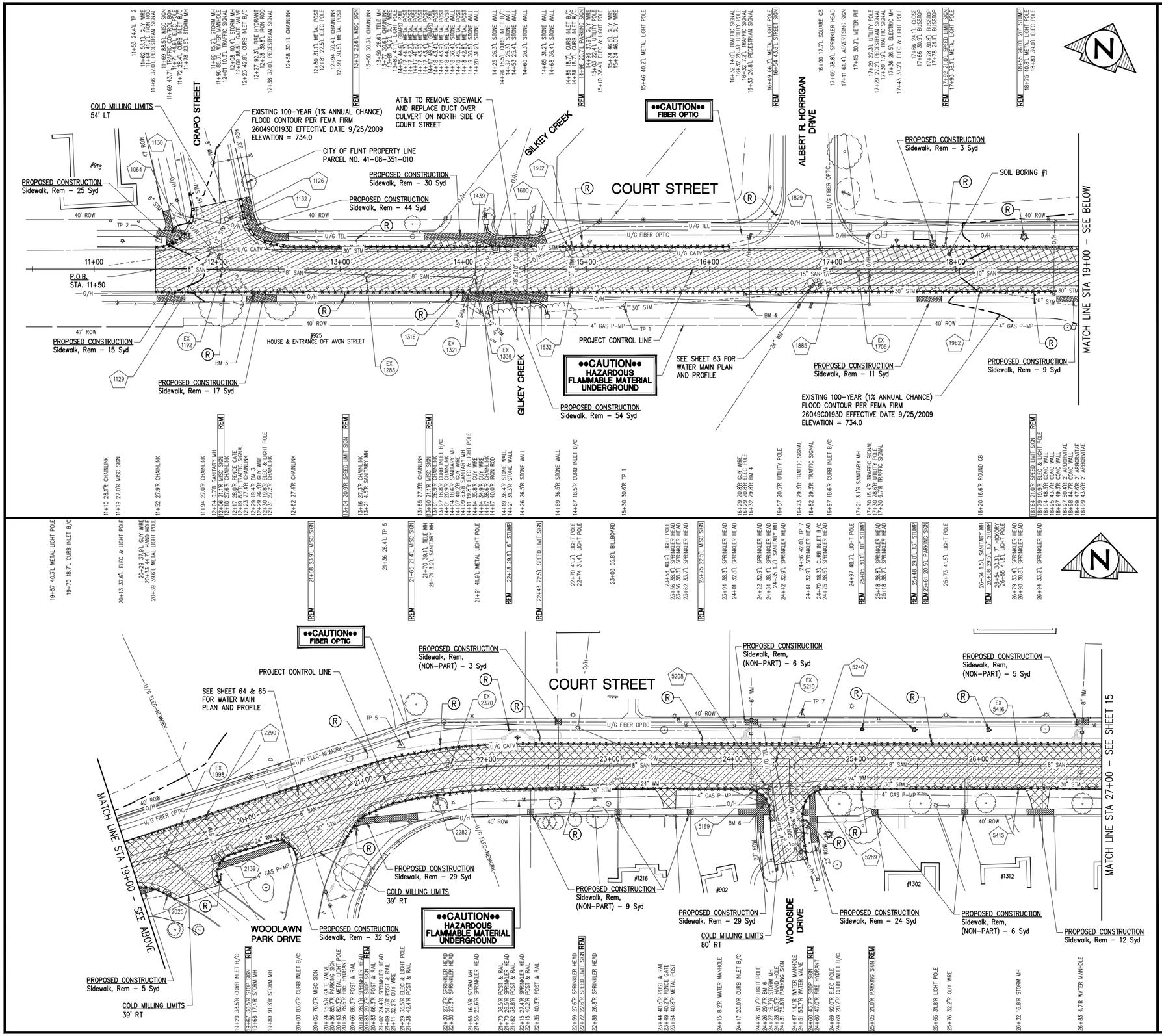





## SHEET QUANTITIES
## CATEGORY 1 - PARTICIPATING

| DESCRIPTION | QUANTITY | UNITS |
|---|---|---|
| Sidewalk, Rem | 339 | Syd |
| Pavt, Rem, Modified | 1440 | Syd |
| Excavation, Earth | 579 | Cyd |
| Pavt Joint and Crack Repr, Det 7 | 875 | Ft |
| Pavt Joint and Crack Repr, Det 8 | 875 | Ft |
| Hand Patching | 145 | Ton |
| Cold Milling | 7010 | Syd |
| Sign, Type III, Rem | 27 | Ea |

## SHEET QUANTITIES
## CATEGORY 3 - NON-PARTICIPATING

| DESCRIPTION | QUANTITY | UNITS |
|---|---|---|
| Stump, Rem, 19 inch to 36 inch | 1 | Ea |
| Stump, Rem, 6 inch to 18 inch | 4 | Ea |
| Sidewalk, Rem | 29 | Syd |
| Pavt, Rem, Modified | 1100 | Syd |
| Excavation, Earth | 3 | Cyd |

EX STRUCTURE INVENTORIES

1064
RIM = 733.38
12" E = 730.28
6" NW = 731.13

1126
RIM = 732.89
12" S = 729.04
12" NE = 729.78

1129
RIM = 733.49
18" SW = 724.49
12" W = 729.04
12" N = 728.99
15" NW = 728.64
30" E = 724.49

1130
RIM = 733.66
12" E = 729.46
12" W = 730.21

1132
RIM = 731.78
12" SW = 729.78

1316
RIM = 729.86
12" SE = 727.11

1439
RIM = 729.75
30" E = 723.50
30" W = 723.50

1600
RIM = 729.42
12" SW = 724.87
12" E = 725.17

1602
RIM = 729.93
12" W = 725.73
10" S = 725.73

1632
RIM = 729.78
10" N = 725.43

1829
RIM = 731.04
12" SE = 728.33

1885
RIM = 731.13
30" SW = 726.23
12" NW = 727.63
30" E = 726.38

1962
RIM = 734.09
30" W = 729.59
30" E = 729.74
6" E = 730.74

2025
RIM = 737.83
6" W = 734.28

2092
RIM = 743.15
18" NW = 737.17
12" NE = 737.77
18" SE = 737.17

2103
RIM = 741.54
12" SW = 737.84
12" SE = 737.89

2139
RIM = 739.82
30" W = 733.02
12" N = 735.72
30" E = 733.07
18" SE = 736.12

2282
RIM = 747.51
30" W = 736.41
30" E = 736.46

2290
RIM = 739.57
12" S = 736.87

2435
RIM = 748.83
12" W = 744.93
12" N = 744.83
12" S = 745.03

5169
RIM = 746.90
10" E = 743.75

5208
RIM = 747.24
10" W = 743.64
24" S = 739.04
12" E = 742.54
12" NE = 742.54
30" E = 740.14
30" W = 738.84

5240
RIM = 746.85
12" SW = 744.85

5289
RIM = 746.82
12" W = 744.02

5415
RIM = 747.85
30" W = 742.40
30" E = 742.45

EX 1192
RIM = 733.70
8" E = 722.00
8" N = 723.10
8" W = 722.25

EX 1283
RIM = 731.26
8" W = 721.66
8" E = 721.51

EX 1321
RIM = 729.80
15" N = 720.45
15" S = 720.40

EX 1339
RIM = 730.47
8" W = 721.17
15" S = 720.47
15" N = 720.47

EX 1706
RIM = 732.18
15" W = 723.53
10" E = 723.58

EX 1998
RIM = 738.86
8" E = 730.31
10" W = 730.41
8" SE = 731.36

EX 2370
RIM = 748.69
8" E = 734.69
8" W = 734.64

EX 5210
RIM = 747.66
8" E = 736.36
8" S = 735.71
8" W = 735.81

EX 5416
RIM = 748.63
8" E = 739.43
8" W = 739.38

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'


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PREPARED FOR
# CITY OF FLINT
# COURT STREET REHABILITATION
P.O.B. STA. 11+50 TO STA. 27+00
REMOVAL SHEET

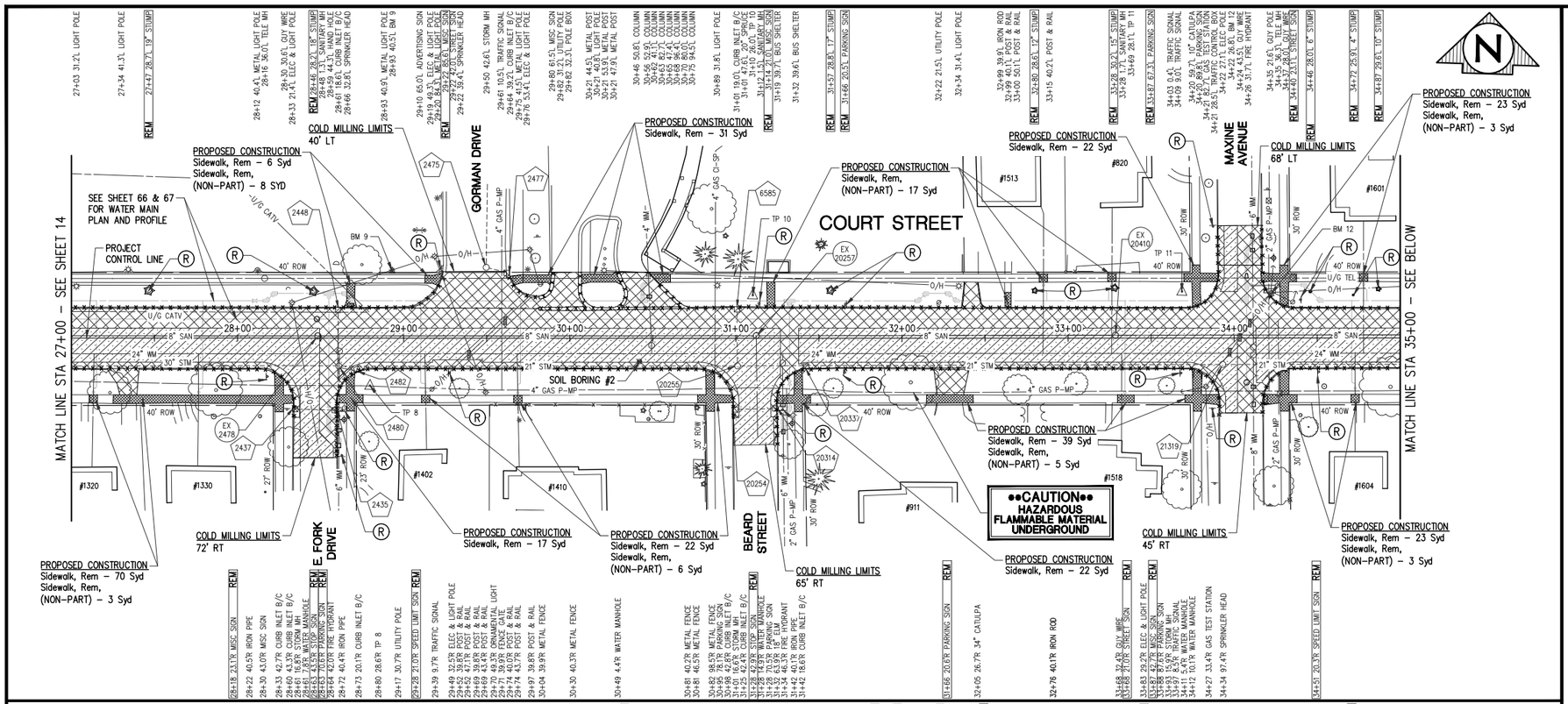
R:\Projects\18C0137\Dwg\Construction Drawings\XX-18C0137-REM.dwg

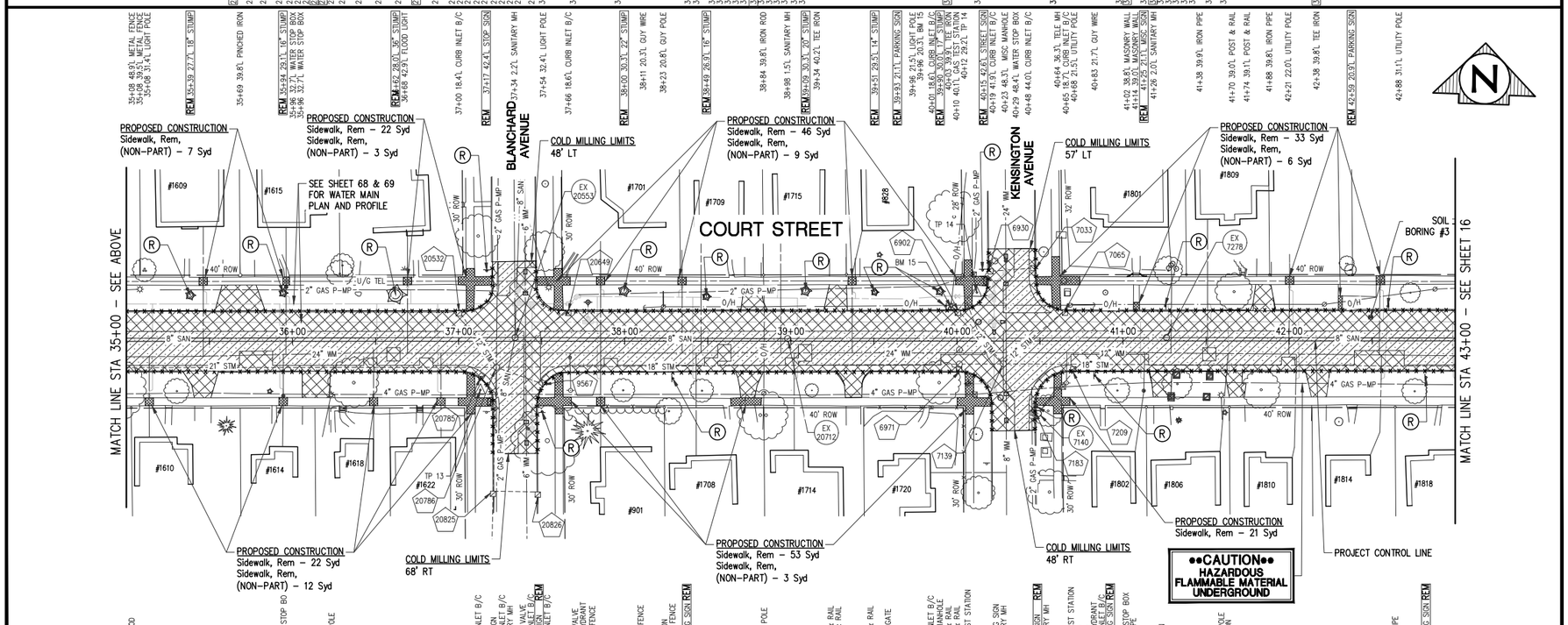
REV:

SHT# 14 OF 100

JOB No: 18C0137

PLOTTED: 6/6/2019 8:37 AM




## SHEET QUANTITIES
## CATEGORY 1 - PARTICIPATING

| DESCRIPTION | QUANTITY | UNITS |
|---|---|---|
| Stump, Rem, 6 inch to 18 inch | 1 | Ea |
| Sidewalk, Rem | 472 | Syd |
| Pavt, Rem, Modified | 2040 | Syd |
| Excavation, Earth | 431 | Cyd |
| Pavt Joint and Crack Repr, Det 7 | 600 | Ft |
| Pavt Joint and Crack Repr, Det 8 | 600 | Ft |
| Hand Patching | 150 | Ton |
| Cold Milling | 7235 | Syd |
| Sign, Type III, Rem | 45 | Ea |

## SHEET QUANTITIES
## CATEGORY 3 - NON-PARTICIPATING

| DESCRIPTION | QUANTITY | UNITS |
|---|---|---|
| Stump, Rem, 19 inch to 36 inch | 4 | Ea |
| Stump, Rem, 6 inch to 18 inch | 10 | Ea |
| Sidewalk, Rem | 85 | Syd |
| Pavt, Rem, Modified | 2280 | Syd |
| Excavation, Earth | 9 | Cyd |

EX STRUCTURE INVENTORIES

2435
RIM = 748.83
12" W = 744.93
12" N = 744.83
12" S = 745.03

2437
RIM = 748.78
12" E = 745.88

2448
RIM = 749.25
12" S = 745.65

2475
RIM = 750.82
12" N = 747.97
12" E = 747.02

2477
RIM = 750.78
12" W = 747.08

2480
RIM = 749.59
30" W = 743.74
12" N = 745.69
12" S = 744.39
12" E = 745.69
21" E = 743.69

2482
RIM = 749.28
12" W = 746.28

6585
RIM = 750.98
12" S = 748.53

6902
RIM = 751.55
12" SE = 749.30
12" NE = 748.70

6930
RIM = 751.10
12" SW = 748.40
10" E = 749.40

6971
RIM = 751.51
12" N = 748.20

7033
RIM = 751.23
10" W = 749.53

7065
RIM = 751.45
12" SW = 749.15

7139
RIM = 751.91
18" W = 748.16
12" NW = 748.56
12" NE = 748.56
18" E = 748.06

7183
RIM = 752.47

7209
RIM = 751.43
10" SW = 749.53

9567
RIM = 751.09
12" W = 748.39

20254
RIM = 751.05
12" E = 749.05

20255
RIM = 751.44
21" W = 744.69
12" N = 747.54
21" E = 744.74

20314
RIM = 751.11
12" W = 749.16
12" NE = 749.11

20337
RIM = 751.27
12" SW = 748.77

20532
RIM = 751.52
12" SE = 747.38

20649
RIM = 751.37
12" SW = 748.42

20785
RIM = 751.31

20786
RIM = 751.78
21" W = 747.98
12" NW = 747.38
12" NE = 747.43
12" E = 747.08
15" S = 747.38
18" E = 747.08

20825
RIM = 751.06
15" N = 747.36
15" S = 747.46
12" E = 747.96

20826
RIM = 751.03
12" W = 748.33

21319
RIM = 753.17
21" E = 745.67
21" W = 745.62

EX 2478
RIM = 750.07
8" E = 740.82
8" W = 740.77

EX 7140
RIM = 752.10
10" W = 749.55
10" NE = 749.25

EX 7278
RIM = 752.30
8" E = 744.85

EX 20257
RIM = 751.76
8" E = 742.86
8" W = 742.81

EX 20410
RIM = 753.24
8" E = 744.54
8" W = 744.49

EX 20553
RIM = 752.12
8" W = 744.22
8" E = 744.27
8" N = 744.02
8" S = 744.02

EX 20712
RIM = 752.43
8" W = 744.98

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## PLAN SUBMITTALS AND CHANGES

BIDDING DOCUMENTS

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# COURT STREET REHABILITATION
STA. 27+00 TO STA. 43+00
REMOVAL SHEET

REV:

SHT# 15 OF 100

JOB No: 18C0137

R:\Projects\18C0137\Dwg\Construction Drawings\XX-18C0137-REMR.dwg

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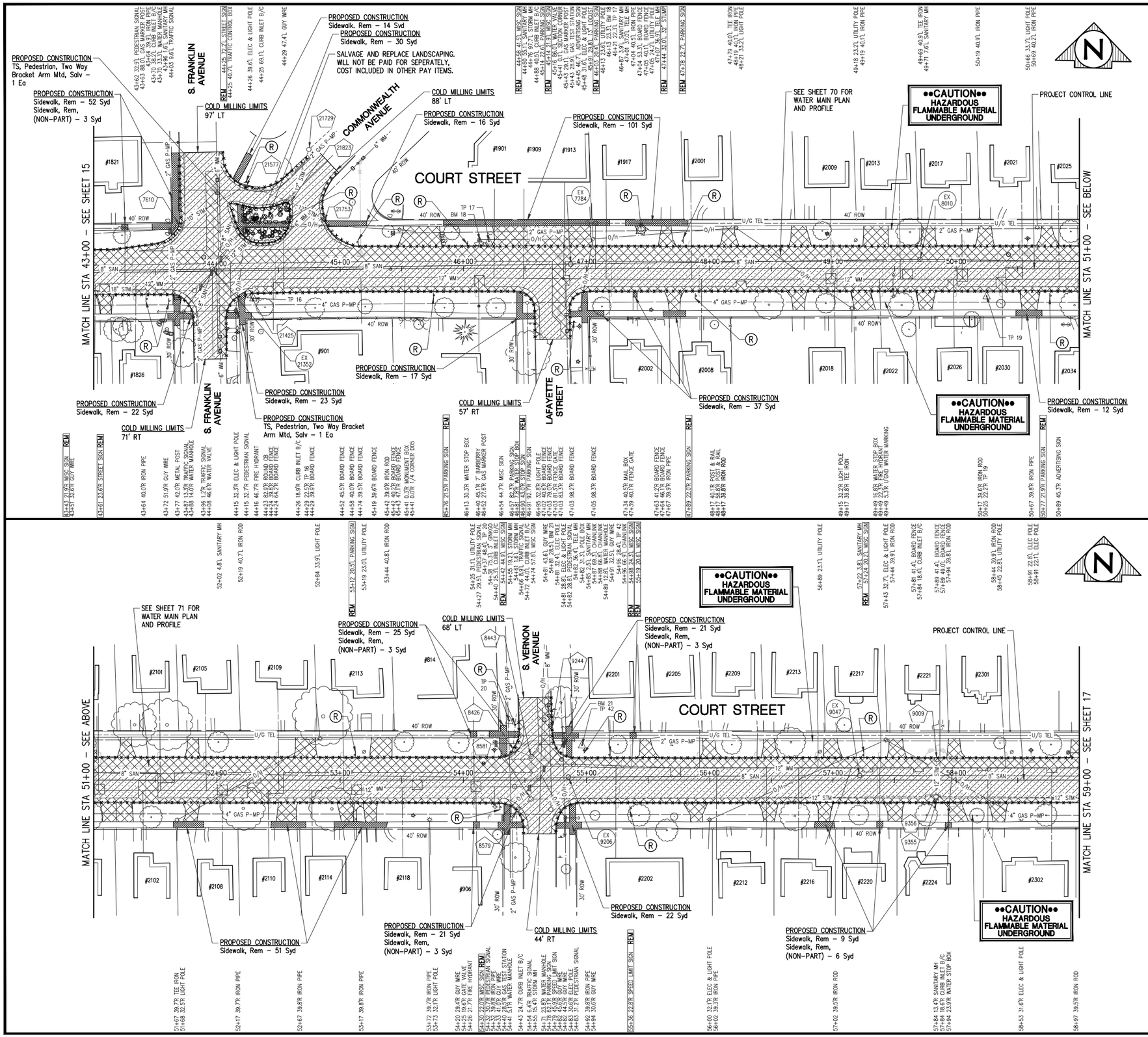


## SHEET QUANTITIES
## CATEGORY 1 - PARTICIPATING

| DESCRIPTION | QUANTITY | UNITS |
|---|---|---|
| Stump, Rem, 19 inch to 36 inch | 1 | Ea |
| Sidewalk, Rem | 473 | Syd |
| Pavt, Rem, Modified | 2400 | Syd |
| Excavation, Earth | 630 | Cyd |
| Pavt Joint and Crack Repr, Det 7 | 350 | Ft |
| Pavt Joint and Crack Repr, Det 8 | 350 | Ft |
| Hand Patching | 135 | Ton |
| Cold Milling | 7235 | Syd |
| Sign, Type III, Rem | 36 | Ea |
| TS, Pedestrian, Two Way Bracket Arm Mtd, Salv | 2 | Ea |

## SHEET QUANTITIES
## CATEGORY 3 - NON-PARTICIPATING

| DESCRIPTION | QUANTITY | UNITS |
|---|---|---|
| Sidewalk, Rem | 18 | Syd |
| Pavt, Rem, Modified | 2015 | Syd |
| Excavation, Earth | 2 | Cyd |

EX STRUCTURE
INVENTORIES

7610
RIM = 752.17
10" NE = 750.50

8426
RIM = 751.85
24" E = 744.20
24" N = 744.20

8443
RIM = 752.47
18" S = 747.47
12" NE = 747.52
24" W = 747.82

8579
RIM = 751.99
24" NE = 744.14
27" S = 744.29

8581
RIM = 752.47
18" N = 747.37
12" E = 747.47
24" SW = 744.14

9009
RIM = 750.54
12" S = 747.58

9244
RIM = 751.75
10" N = 749.25
12" SW = 747.40

9355
RIM = 7464.42
8" N = 746.69

9356
RIM = 750.57
12" W = 745.67
12" N = 746.37
12" E = 745.62
8" S = 746.07

21425
RIM = 752.73
8" SW = 751.13

21577
RIM = 752.86
10" SW = 750.51
12" E = 750.66

21729
RIM = 753.19
12" S = 750.74
12" NE = 750.79

21753
RIM = 752.98
12" NW = 751.28

21823
RIM = 753.48
12" W = 751.03
12" N = 750.53
12" SE = 750.98
12" SW = 750.58

EX 7784
RIM = 754.54
8" W = 745.64
8" E = 745.54

EX 8010
RIM = 754.67
8" W = 747.22
8" E = 747.32

EX 9047
RIM = 751.33
8" W = 740.18
8" E = 740.18

EX 9206
RIM = 752.63
8" E = 741.13

EX 21352
RIM = 753.39
8" E = 743.89
8" W = 743.94
8" N = 743.84
8" S = 743.74

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# CITY OF FLINT
# COURT STREET REHABILITATION
STA. 43+00 TO STA. 59+00
REMOVAL SHEET

REV:

SHT# 16 OF 100

JOB No: 18C0137

R:\Projects\18C0137\Dwg\Construction Drawings\XX-18C0137-REM.dwg
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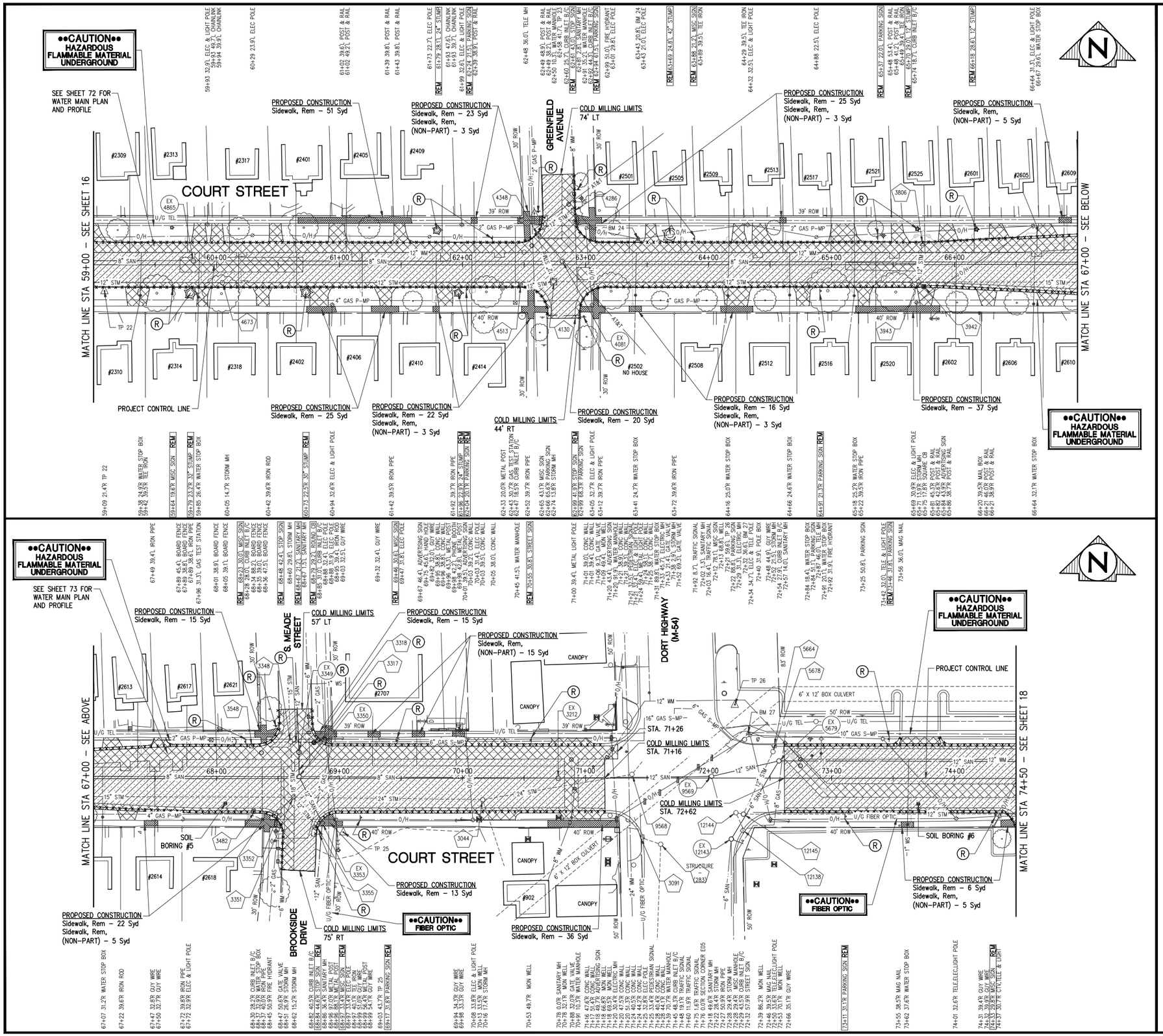


## SHEET QUANTITIES
## CATEGORY 1 - PARTICIPATING

| DESCRIPTION | QUANTITY | UNITS |
|---|---|---|
| Stump, Rem, 19 inch to 36 inch | 3 | Ea |
| Sidewalk, Rem | 320 | Syd |
| Pavt, Rem, Modified | 1747 | Syd |
| Excavation, Earth | 461 | Cyd |
| Pavt Joint and Crack Repr, Det 7 | 350 | Ft |
| Pavt Joint and Crack Repr, Det 8 | 350 | Ft |
| Hand Patching | 82 | Ton |
| Cold Milling | 7187 | Syd |
| Sign, Type III, Rem | 26 | Ea |

## SHEET QUANTITIES
## CATEGORY 5 - PARTICIPATING

| DESCRIPTION | QUANTITY | UNITS |
|---|---|---|
| Pavt, Rem, Modified | 173 | Syd |
| Sidewalk, Rem | 6 | Syd |
| Excavation, Earth | 39 | Cyd |
| Pavt Joint and Crack Repr, Det 7 | 80 | Ft |
| Pavt Joint and Crack Repr, Det 8 | 80 | Ft |
| Hand Patching | 63 | Ton |
| Cold Milling | 763 | Syd |
| Sign, Type III, Rem | 5 | Ea |

## SHEET QUANTITIES
## CATEGORY 3 - NON-PARTICIPATING

| DESCRIPTION | QUANTITY | UNITS |
|---|---|---|
| Stump, Rem, 19 inch to 36 inch | 1 | Ea |
| Stump, Rem, 37 inch or Larger | 1 | Ea |
| Stump, Rem, 6 inch to 18 inch | 2 | Ea |
| Dr Structure, Rem | 1 | Ea |
| Sewer, Rem, Less than 24 inch | 20 | Ft |
| Sanitary Sewer, Rem | 30 | Ft |
| Sanitary Sewer Manhole, Rem | 1 | Ea |
| Sidewalk, Rem | 42 | Syd |
| Pavt, Rem, Modified | 1400 | Syd |
| Excavation, Earth | 5 | Cyd |

EX STRUCTURE INVENTORIES

3044
RIM = 744.41
24" S = 738.46
24" W = 738.71
24" E = 738.71

3091
RIM = 746.99
12" N = 742.09
12" E = 742.09

3317
RIM = 742.88
12" W = 739.43

3318
RIM = 743.08
12" E = 739.63
12" W = 739.18

3348
RIM = 743.28
12" E = 739.58
12" W = 739.63
15" N = 739.63
18" S = 739.58

3351
RIM = 743.32
12" SW = 739.22
12" SE = 739.27
15" W = 739.27
18" N = 738.92
24" E = 738.82

3352
RIM = 742.90
12" W = 739.45
12" NE = 739.40

3355
RIM = 742.44
12" NW = 739.39

3482
RIM = 742.80
12" E = 739.85

3548
RIM = 742.72
12" E = 740.22

3806
RIM = 744.39
12" S = 741.39

3942
RIM = 744.32
10" NW = 741.57

3943
RIM = 744.80
12" N = 740.85
12" W = 740.40
15" E = 740.20
10" SE = 742.40

4130
RIM = 749.06
12" E = 744.01
12" N = 745.01
12" W = 746.61
12" W = 744.21

4286
RIM = 750.11
12" SW = 747.00

4348
RIM = 748.78
12" NE = 745.98
12" S = 746.73

4513
RIM = 749.09
12" E = 746.34

4673
RIM = 751.29
12" W = 744.99
12" E = 744.94

5664
RIM = 745.61
12" S = 741.01
12" N = 741.11

5678
RIM = 746.03
12" SW = 741.33
12" N = 741.43

5781
RIM = 746.98
12" E = 744.78

9568
RIM = 745.96
24" W = 731.96
48" NE = 731.96

12138
RIM = 745.57
12" NW = 743.67

12144
RIM = 745.95
12" E = 742.15
12" SE = 743.35

12145
RIM = 745.85
12" NE = 738.45
12" W = 741.35
12" E = 741.65

EX 3212
RIM = 745.48
12" E = 734.78
8" W = 734.78

EX 3349
RIM = 743.35
12" S = 734.45
12" N = 735.15

EX 3350
RIM = 743.62
8" E = 735.37
12" N = 735.67
12" SE = 735.37
8" W = 735.57

EX 3353
RIM = 743.07
12" NW = 733.92
12" S = 733.92

EX 4081
RIM = 749.30
8" E = 738.05
8" W = 738.05

EX 4865
RIM = 751.76
8" E = 739.11
8" W = 739.21

EX 5679
RIM = 746.20
12" E = 736.40
6" SW = 736.65
12" W = 736.40

EX 9569
RIM = 746.17
12" E = 735.92
12" W = 734.22
12" S = 734.62

EX 12143
RIM = 746.08
6" S = 736.78
6" NE = 736.78
6" E = 739.68

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STA. 59+00 TO STA. 74+50
REMOVAL SHEET

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REV:

SHT# 17 OF 100

JOB No: 18C0137

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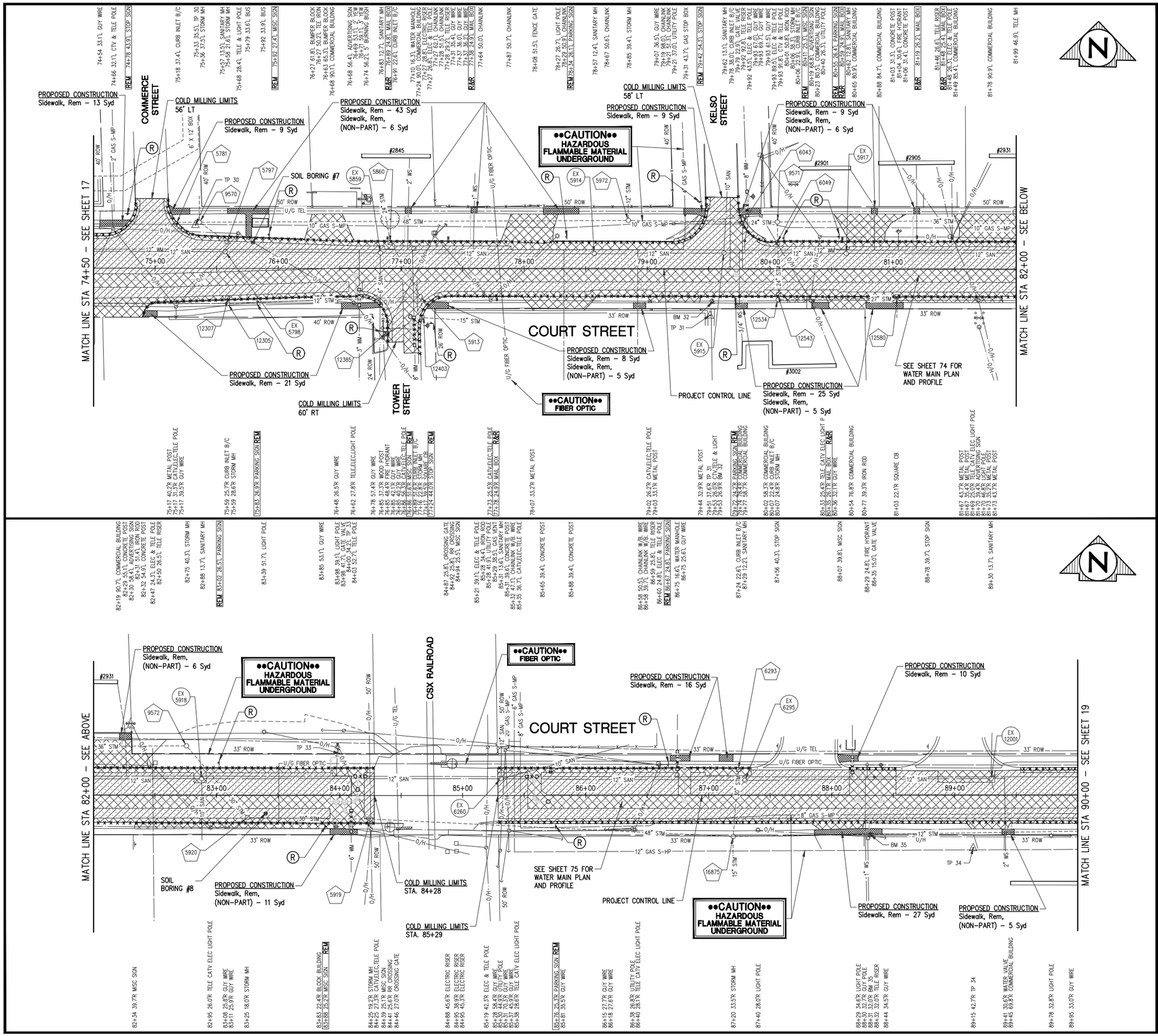


## SHEET QUANTITIES
## CATEGORY 5 - PARTICIPATING

| DESCRIPTION | QUANTITY | UNITS |
|---|---|---|
| Sidewalk, Rem | 190 | Syd |
| Pavt, Rem, Modified | 2235 | Syd |
| Excavation, Earth | 765 | Cyd |
| Pavt Joint and Crack Repr, Det 7 | 885 | Ft |
| Pavt Joint and Crack Repr, Det 8 | 885 | Ft |
| Hand Patching | 165 | Ton |
| Cold Milling | 7900 | Syd |
| Sign, Type III, Rem | 17 | Ea |

## SHEET QUANTITIES
## CATEGORY 3 - NON-PARTICIPATING

| DESCRIPTION | QUANTITY | UNITS |
|---|---|---|
| Sidewalk, Rem | 44 | Syd |
| Pavt, Rem, Modified | 2040 | Syd |
| Excavation, Earth | 5 | Cyd |

EX STRUCTURE INVENTORIES

5781
RIM = 746.98
12" E = 744.78

5797
RIM = 747.38
12" NW = 744.28

5860
RIM = 747.77
24" SE = 742.27
24" N = 739.57

5913
RIM = 748.09
24" NW = 743.54
24" S = 743.39
12" W = 744.00

5919
RIM = 758.57
48" E = 749.47
30" W = 749.07

5920
RIM = 755.40
30" E = 746.70
30" NW = 746.70

5972
RIM = 749.90
48" W = 742.70
36" E = 742.80
12" N = 743.30

6043
RIM = 748.70
36" W = 743.20
24" E = 743.50

6049
RIM = 749.28
27" N = 743.19
24" S = 744.18

6293
RIM = 757.17
30" S = 753.57

9570
RIM = 747.78
48" N = 739.68
48" E = 739.88
12" W = 744.28
12" SE = 741.18

9571
RIM = 749.77
36" E = 743.67
27" S = 743.67
24" W = 743.47

9572
RIM = 754.08
30" SE = 745.78
36" W = 745.48

12305
RIM = 748.05
12" E = 743.65
12" W = 743.45
12" N = 743.95

12307
RIM = 747.19
12" S = 743.98

12385
RIM = 749.04
8" NE = 747.63

12403
RIM = 753.05
24" N = 744.96
8" SW = 745.36
15" E = 745.56

12534
RIM = 749.79
27" N = 744.39
27" E = 744.89

12543
RIM = 749.33
24" N = 744.23
27" S = 744.23

12580
RIM = 750.44
12" S = 745.64
27" W = 745.44

16875
RIM = 758.02
48" W = 752.52
12" E = 753.02
15" S = 754.02
30" N = 752.67

EX 5798
RIM = 747.58
12" E = 737.98
12" W = 737.88

EX 5859
RIM = 748.14
12" E = 738.94
12" W = 738.94
6" S = 739.44

EX 5914
RIM = 748.86
12" E = 740.06
12" W = 739.96

EX 5915
RIM = 749.40
12" E = 740.70
12" W = 740.60
10" N = 741.60

EX 5917
RIM = 750.25
12" E = 742.35
12" W = 742.30

EX 5918
RIM = 754.28
12" E = 742.88
12" W = 742.88
10" S = 749.08

EX 6260
RIM = 759.31
12" E = 749.51
12" W = 749.36
12" N = 749.91
10" E = 749.61

EX 6295
RIM = 757.64
12" E = 749.79
12" W = 749.79

EX 12001
RIM = 758.80
12" W = 750.00
12" N = 750.05
12" E = 750.05
10" S = 751.30
6" NE = 750.34

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

0 40 ft 80 ft

## 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. 74+50 TO STA. 90+00
REMOVAL SHEET

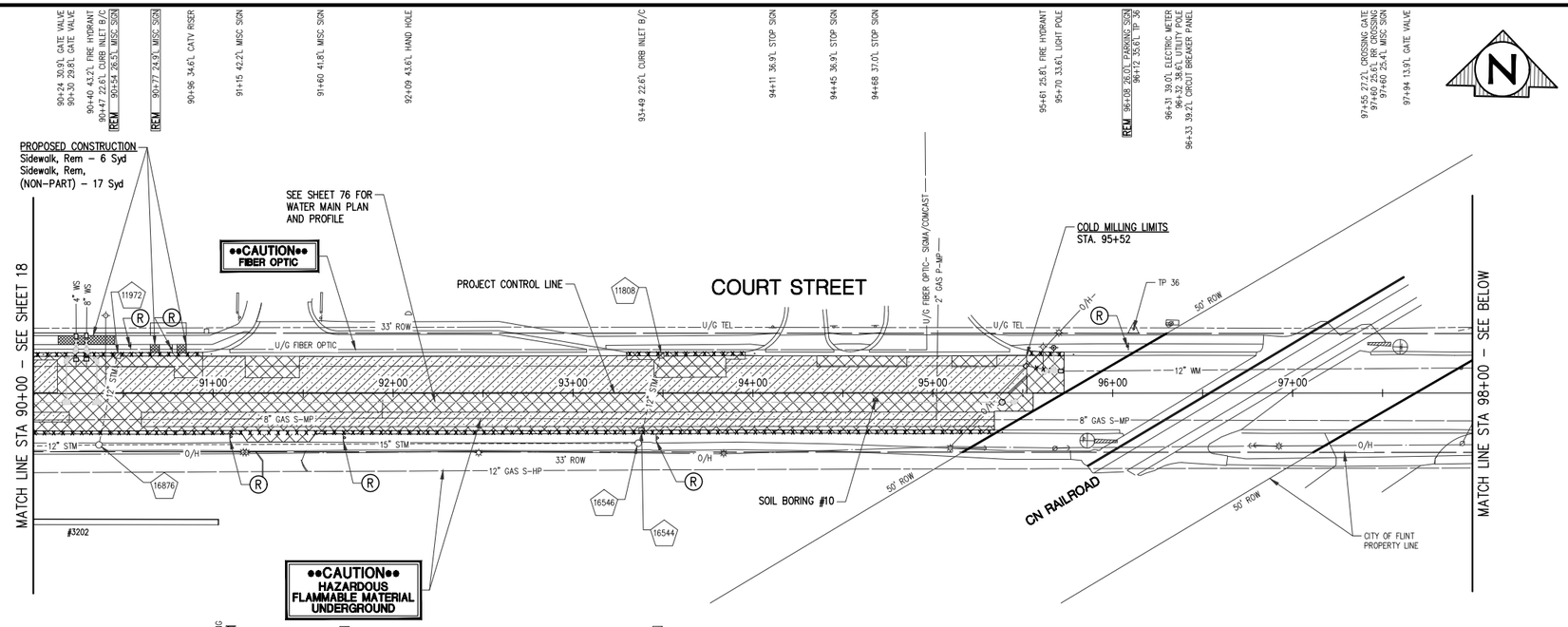
R:\Projects\18C0137\Dwg\Construction Drawings\VX-18C0137-REMZ.dwg

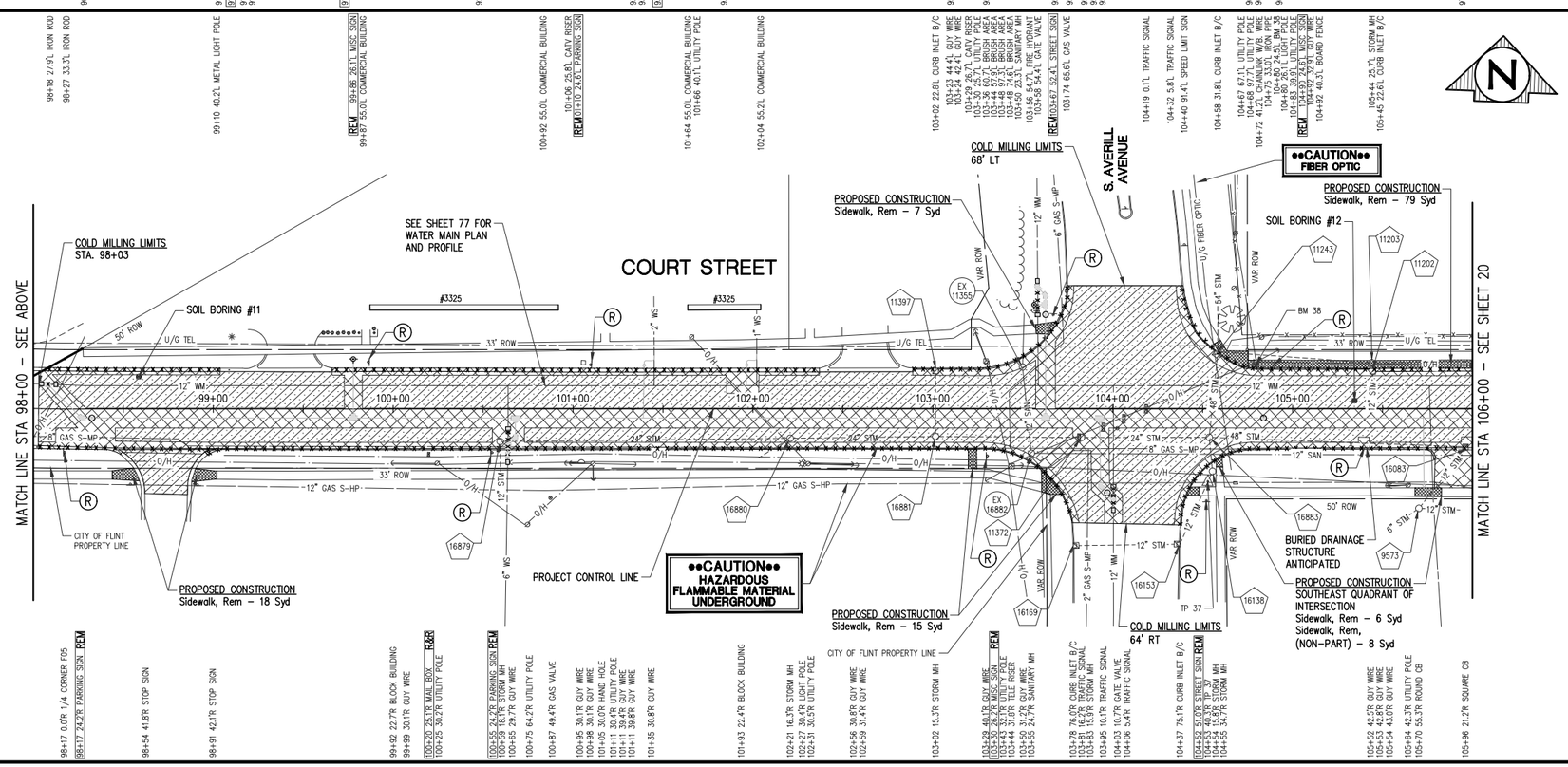
REV:

SHT# 18 OF 100

JOB No: 18C0137

PLOTTED: 6/6/2019 8:38 AM




## SHEET QUANTITIES
## CATEGORY 5 - PARTICIPATING

| DESCRIPTION | QUANTITY | UNITS |
|---|---|---|
| Dr Structure, Rem | 1 | Ea |
| Sidewalk, Rem | 131 | Syd |
| Pavt, Rem, Modified | 1325 | Syd |
| Excavation, Earth | 620 | Cyd |
| Pavt Joint and Crack Repr, Det 7 | 720 | Ft |
| Pavt Joint and Crack Repr, Det 8 | 720 | Ft |
| Hand Patching | 210 | Ton |
| Cold Milling | 7550 | Syd |
| Sign, Type III, Rem | 15 | Ea |

## SHEET QUANTITIES
## CATEGORY 3 - NON-Pparticipating

| DESCRIPTION | QUANTITY | UNITS |
|---|---|---|
| Sidewalk, Rem | 25 | Syd |
| Pavt, Rem, Modified | 1890 | Syd |
| Excavation, Earth | 3 | Cyd |

EX STRUCTURE INVENTORIES

9573
RIM = 757.25
6" SW = 756.23
12" E = 755.53
12" NE = 754.53

11179
RIM = 757.09
30" E = 752.89
30" W = 751.69

11202
RIM = 755.85
12" N = 751.65
12" S = 752.95

11203
RIM = 756.61
30" E = 751.21
12" S = 751.51
30" W = 751.16

11243
RIM = 756.00
30" E = 750.20
54" N = 748.45
48" S = 748.50

11372
RIM = 757.17
24" E = 752.37
24" W = 752.47

11397
RIM = 757.27
12" S = 754.57

11808
RIM = 761.83
12" S = 759.33

11972
RIM = 759.35
12" S = 756.35

16083
RIM = 755.99
12" SW = 753.69
48" W = 748.12

16138
RIM = 760.94
48" N = 749.27
12" S = 751.27

16153
RIM = 757.97
12" N = 751.87
12" W = 752.07

16169
RIM = 758.47
12" E = 754.77

16544
RIM = 761.70
12" N = 758.40
12" S = 757.90

16546
RIM = 762.56
12" N = 757.76
15" W = 757.16

16876
RIM = 760.30
12" N = 754.95
15" E = 754.82
12" W = 755.00

16879
RIM = 762.52
24" E = 754.32
12" S = 754.42

16880
RIM = 759.61
15" SW = 755.61
24" E = 753.11
24" W = 753.61

16881
RIM = 758.56
24" E = 752.96
24" W = 752.86
12" N = 752.96

16883
RIM = 756.42
48" S = 747.62
48" N = 747.62
24" W = 750.92
48" E = 747.71

EX 11355
RIM = 756.51
12" S = 742.91
12" N = 742.86

EX 16882
RIM = 756.14
12" E = 741.64
12" N = 741.59

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'

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STA. 90+00 TO STA. 106+00
REMOVAL SHEET

REV:

SHT# 19 OF 100

JOB No: 18C0137

R:\Projects\18C0137\Dwg\Construction Drawings\XX-18C0137-REM2.dwg

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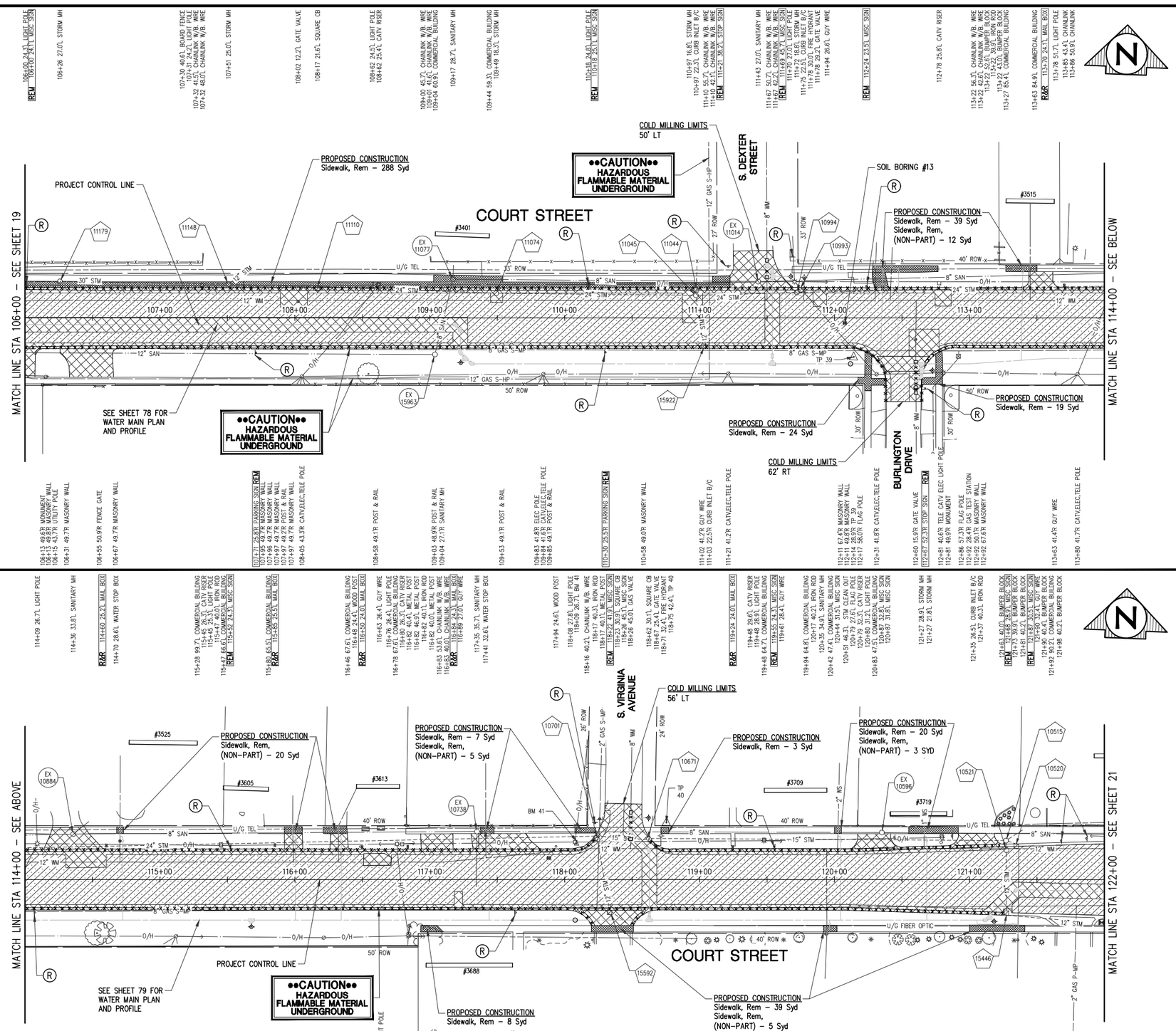


## SHEET QUANTITIES
## CATEGORY 5 - PARTICIPATING

| DESCRIPTION | QUANTITY | UNITS |
|---|---|---|
| Sidewalk, Rem | 447 | Syd |
| Pavt, Rem, Modified | 2130 | Syd |
| Excavation, Earth | 855 | Cyd |
| Pavt Joint and Crack Repr, Det 7 | 920 | Ft |
| Pavt Joint and Crack Repr, Det 8 | 920 | Ft |
| Hand Patching | 220 | Ton |
| Cold Milling | 8900 | Syd |
| Sign, Type III, Rem | 19 | Ea |

## SHEET QUANTITIES
## CATEGORY 3 - NON-PARTICIPATING

| DESCRIPTION | QUANTITY | UNITS |
|---|---|---|
| Sidewalk, Rem | 45 | Syd |
| Pavt, Rem, Modified | 715 | Syd |
| Excavation, Earth | 5 | Cyd |

EX STRUCTURE INVENTORIES

10515
RIM = 764.97
12" S = 760.57
12" E = 760.87
15" W = 760.32
8" NE = 761.32

10520
RIM = 764.42
12" W = 761.67

10521
RIM = 764.52
12" S = 760.52
12" N = 760.47

10671
RIM = 762.52
15" E = 758.47
15" W = 758.42

10701
RIM = 762.16
15" E = 758.11
8" N = 760.76
24" W = 758.06
12" S = 758.24

10993
RIM = 760.36
12" SW = 758.26

10994
RIM = 760.32
24" E = 756.42
24" W = 756.42
12" NE = 758.02

11044
RIM = 758.96
12" N = 757.06
12" S = 757.01

11045
RIM = 759.27
24" E = 756.27
12" N = 756.82
24" W = 755.67
12" S = 756.72

11074
RIM = 758.10
24" E = 754.40

11110
RIM = 757.19
24" E = 753.79
24" W = 753.69

11148
RIM = 757.29
24" E = 753.69
12" NE = 754.64
30" W = 752.89

11179
RIM = 757.09
30" E = 752.89
30" W = 751.69

15446
RIM = 764.28
12" E = 761.08
12" N = 760.68

15592
RIM = 762.69
12" N = 759.09
6" SE = 760.39

15922
RIM = 759.12
12" N = 756.52

EX 10596
RIM = 764.46
8" E = 754.41
8" W = 753.91

EX 10738
RIM = 763.29
8" E = 752.79
8" W = 752.59
8" S = 753.14

EX 10884
RIM = 765.18
8" E = 751.58
8" W = 751.48
8" NE = 751.58

EX 11014
RIM = 760.30
8" E = 750.60
8" W = 750.40

EX 11077
RIM = 758.70
8" E = 748.95
8" N = 750.10
8" S = 748.90

EX 15963
RIM = 758.42
8" N = 748.77
12" W = 748.72

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'


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STA. 106+00 TO STA. 122+00
REMOVAL SHEET

REV:

SHT# 20 OF 100
JOB No: 18C0137

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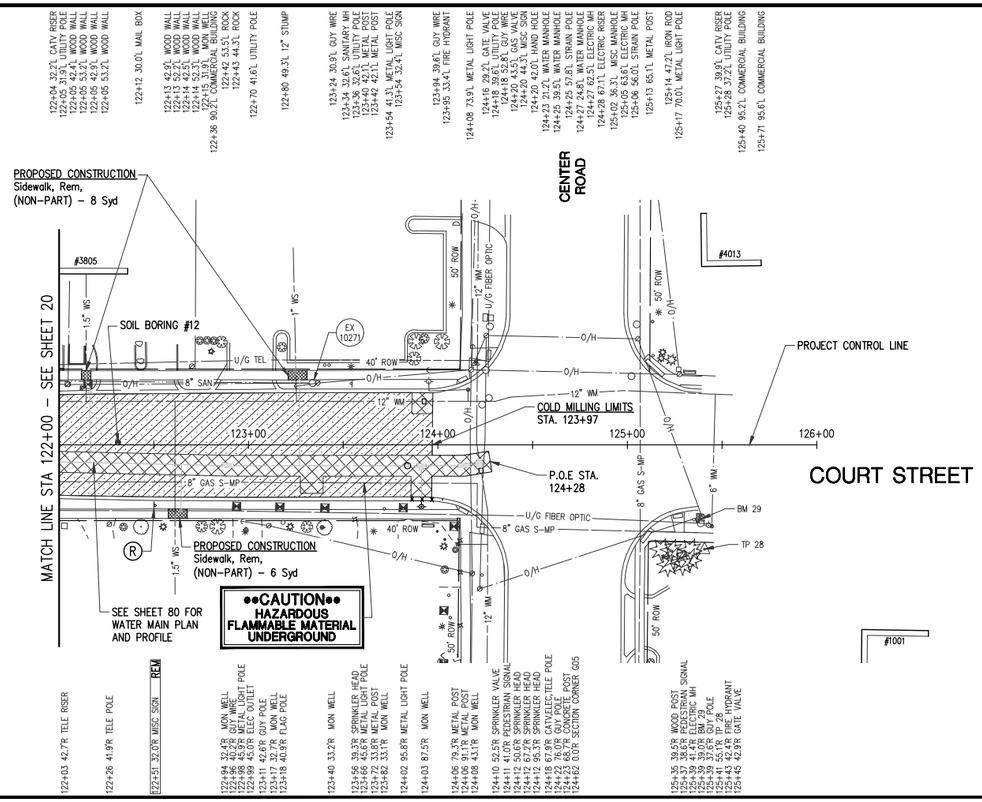


EX STRUCTURE INVENTORIES

EX 10271
RIM = 766.38
8" W = 756.78

## SHEET QUANTITIES
## CATEGORY 5 - PARTICIPATING

| DESCRIPTION | QUANTITY | UNITS |
|---|---|---|
| Pavt, Rem, Modified | 25 | Syd |
| Excavation, Earth | 4 | Cyd |
| Pavt Joint and Crack Repr, Det 7 | 150 | Ft |
| Pavt Joint and Crack Repr, Det 8 | 150 | Ft |
| Hand Patching | 35 | Ton |
| Cold Milling | 1235 | Syd |
| Sign, Type III, Rem | 2 | Ea |

## SHEET QUANTITIES
## CATEGORY 3 - NON-PARTICIPATING

| DESCRIPTION | QUANTITY | UNITS |
|---|---|---|
| Sidewalk, Rem | 14 | Syd |
| Pavt, Rem, Modified | 305 | Syd |
| Excavation, Earth | 2 | Cyd |

Know what's **below.**
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0 40 ft 80 ft

## 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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REMOVAL SHEET

REV:

SHT# 21 OF 100

JOB No: 18C0137

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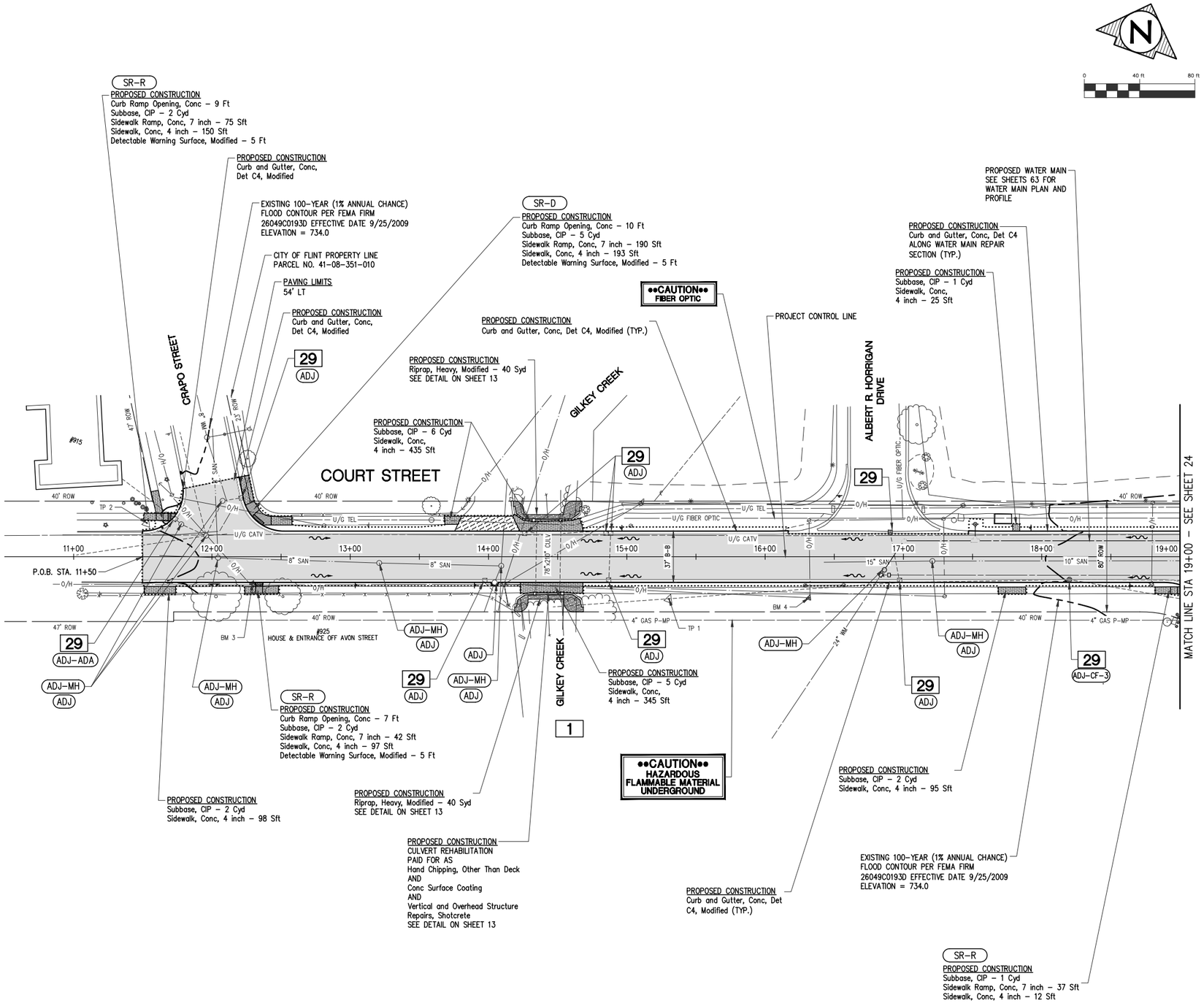


## SHEET QUANTITIES
## CATEGORY 1 - PARTICIPATING

| DESCRIPTION | QUANTITY | UNITS |
|---|---|---|
| Erosion Control, Inlet Protection, Fabric Drop | 10 | Ea |
| Erosion Control, Turbidity Curtain, Shallow | 150 | Ft |
| Subbase, CIP | 33 | Cyd |
| Aggregate Base, 8 inch, Modified | 750 | Syd |
| Dr Structure Cover, ADA Compliant | 1 | Ea |
| Manhole Cover, Adj | 8 | Ea |
| Structure Cover, Adj, Case 1 | 17 | Ea |
| Underdrain, Subbase, 6 inch | 1800 | Ft |
| HMA, 4E1 | 270 | Ton |
| HMA, 5E1 | 270 | Ton |
| Lane Tie, Epoxy Anchored | 620 | Ea |
| Driveway, Nonreinf Conc, 8 inch | 51 | Syd |
| Curb and Gutter, Conc, Det C4 | 204 | Ft |
| Curb and Gutter, Conc, Det C4, Modified | 1210 | Ft |
| Curb Ramp Opening, Conc | 26 | Ft |
| Sidewalk Ramp, Conc, 7 inch | 344 | Sft |
| Sidewalk, Conc, 4 inch | 1450 | Sft |
| Detectable Warning Surface, Modified | 15 | Ft |
| Riprap, Heavy, Modified | 80 | Syd |

## SHEET QUANTITIES
## CATEGORY 3 - NON-PARTICIPATING

| DESCRIPTION | QUANTITY | UNITS |
|---|---|---|
| Aggregate Base, 8 inch, Modified | 295 | Syd |
| HMA, 3C | 95 | Ton |

## DRIVEWAY REPLACEMENT SCHEDULE

| C/L DRIVEWAY STATION | PROPOSED DRIVEWAY TYPE | WIDTH AT ROAD (FT) | WIDTH AT BACK OF DRIVEWAY (FT) | LENGTH OF DRIVEWAY REPLACEMENT FROM B/C (FT) | EXISTING SLOPE (%) | PROPOSED SLOPE (%) | Subbase, CIP (CYD) | Pavt, Rem, Modified (SYD) | Driveway, Nonreinf Conc, 8 inch (SYD) |
|---|---|---|---|---|---|---|---|---|---|
| 13+99 LT | CONC | 47 | 37 | 11 | 2.6 | 2 | 6 | 27 | 51 |

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## PLAN SUBMITTALS AND CHANGES

BIDDING DOCUMENTS

| DATE | DESCRIPTION |
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| 6/5/2019 | ISSUED FOR BIDS |

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ROAD AND STORM SEWER PLAN SHEET

REV:

SHT# 22 OF 100

JOB No: 18C0137

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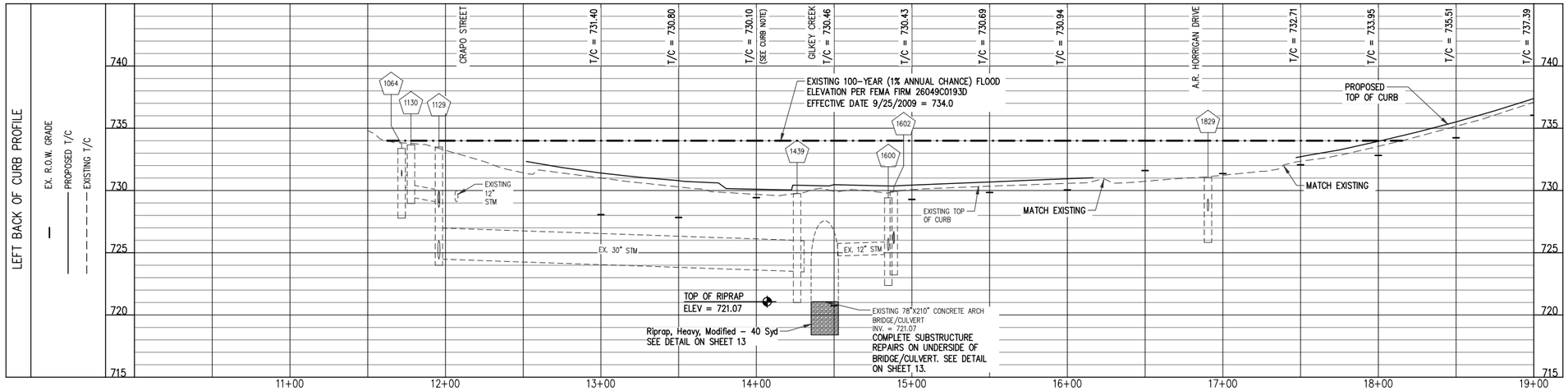
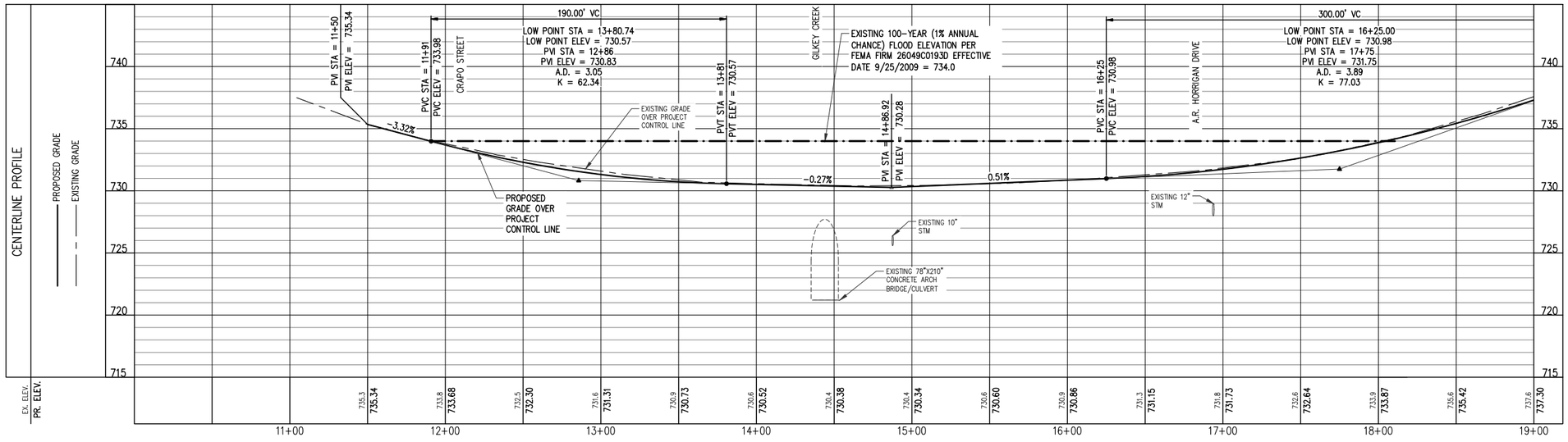
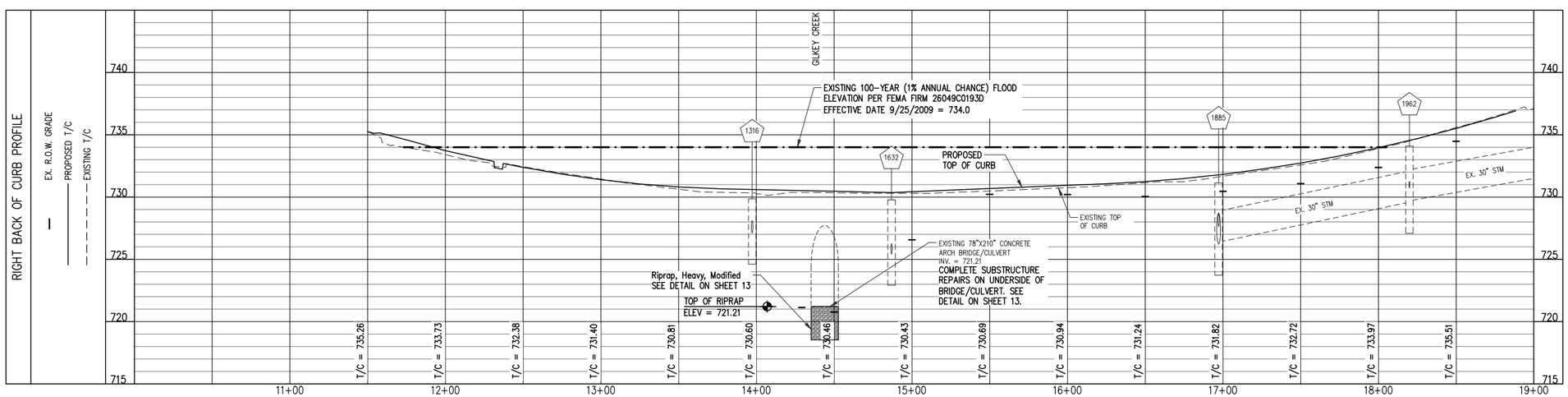



## CURB NOTE

T/C CURB ELEVATIONS IN DRIVE OPENINGS ARE TO TOP OF L OPENING (KNOCKED DOWN CURB). ADD 0.50' TO GET FULL HEIGHT CURB FOR STRINGING/STAKING PURPOSES.




HOR: 0 40 ft 80 ft
VERT: 0 5 ft 10 ft

811 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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P.O.B. STA. 11+50 TO STA. 19+00
ROAD AND STORM SEWER PROFILE SHEET

REV:

SHT# 23 OF 100

JOB No: 18C0137

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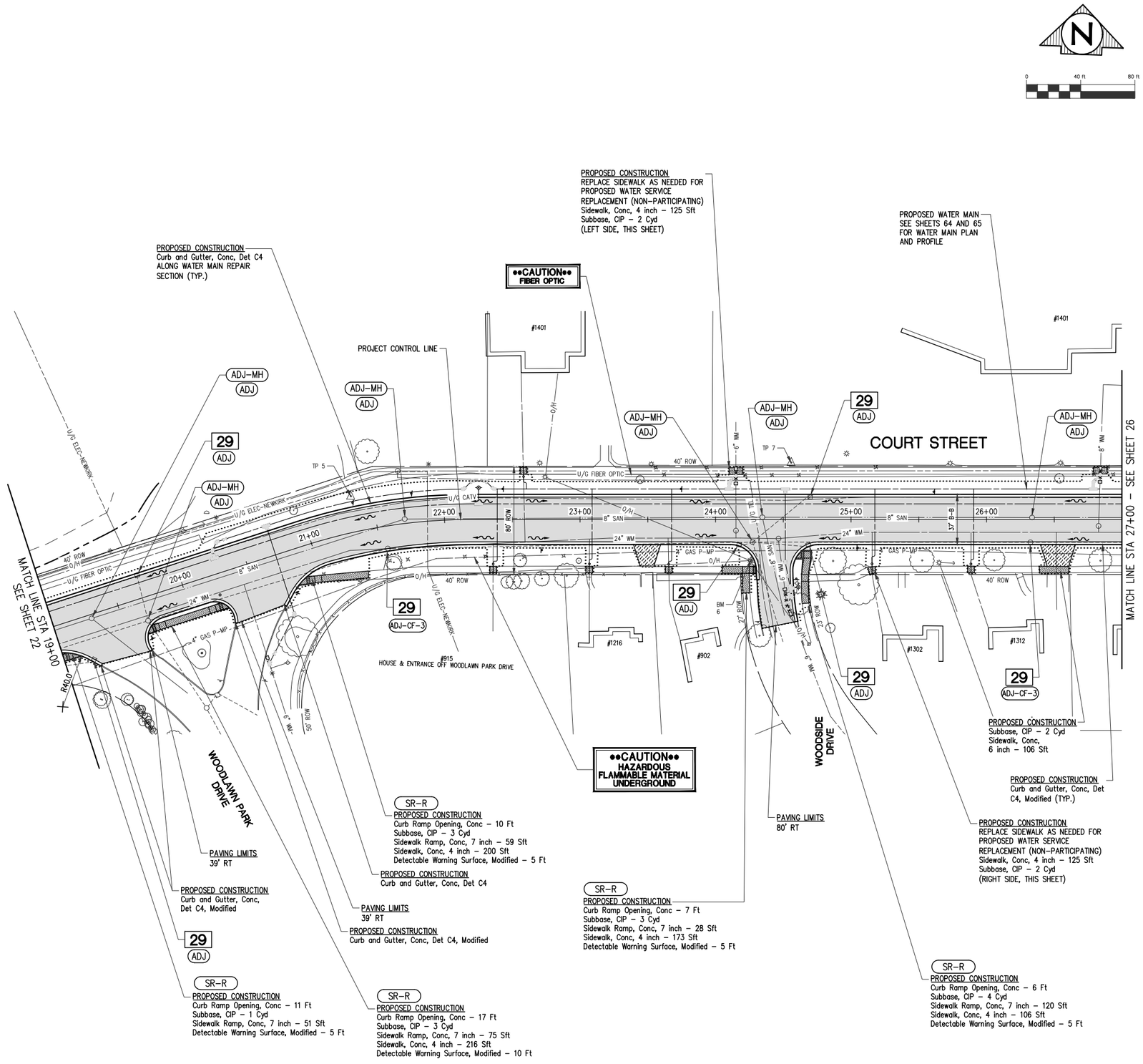


## SHEET QUANTITIES
## CATEGORY 1 - PARTICIPATING

| DESCRIPTION | QUANTITY | UNITS |
|---|---|---|
| Erosion Control, Inlet Protection, Fabric Drop | 7 | Ea |
| Subbase, CIP | 24 | Cyd |
| Aggregate Base, 8 inch, Modified | 690 | Syd |
| Manhole Cover, Adj | 6 | Ea |
| Structure Cover, Adj, Case 1 | 13 | Ea |
| Underdrain, Subbase, 6 inch | 1000 | Ft |
| HMA, 4E1 | 305 | Ton |
| HMA, 5E1 | 305 | Ton |
| Lane Tie, Epoxy Anchored | 403 | Ea |
| Driveway, Nonreinf Conc, 6 inch | 65 | Syd |
| Curb and Gutter, Conc, Det C4 | 860 | Ft |
| Curb and Gutter, Conc, Det C4, Modified | 755 | Ft |
| Curb Ramp Opening, Conc | 51 | Ft |
| Sidewalk Ramp, Conc, 7 inch | 333 | Sft |
| Sidewalk, Conc, 4 inch | 695 | Sft |
| Sidewalk, Conc, 6 inch | 106 | Sft |
| Detectable Warning Surface, Modified | 30 | Ft |

## SHEET QUANTITIES
## CATEGORY 3 - NON-PARTICIPATING

| DESCRIPTION | QUANTITY | UNITS |
|---|---|---|
| Subbase, CIP | 4 | Cyd |
| Aggregate Base, 8 inch, Modified | 1115 | Syd |
| HMA, 3C | 310 | Ton |
| Sidewalk, Conc, 4 inch | 250 | Sft |

## DRIVEWAY REPLACEMENT SCHEDULE

| C/L DRIVEWAY STATION | PROPOSED DRIVEWAY TYPE | WIDTH AT ROAD (FT) | WIDTH AT BACK OF DRIVEWAY (FT) | LENGTH OF DRIVEWAY REPLACEMENT FROM B/C (FT) | EXISTING SLOPE (%) | PROPOSED SLOPE (%) | Subbase, CIP (CYD) | Pavt, Rem, Modified (SYD) | Driveway, Nonreinf Conc, 8 inch (SYD) |
|---|---|---|---|---|---|---|---|---|---|
| 23+47 R | CONC | 20 | 10 | 16 | 4.1 | 2 | 3 | 23 | 27 |
| 26+43 R | CONC | 26 | 16 | 16 | 3.7 | 2.3 | 5 | 29 | 38 |

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## 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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ROAD AND STORM SEWER PLAN SHEET

REV:

SHT# 24 OF 100

JOB No: 18C0137

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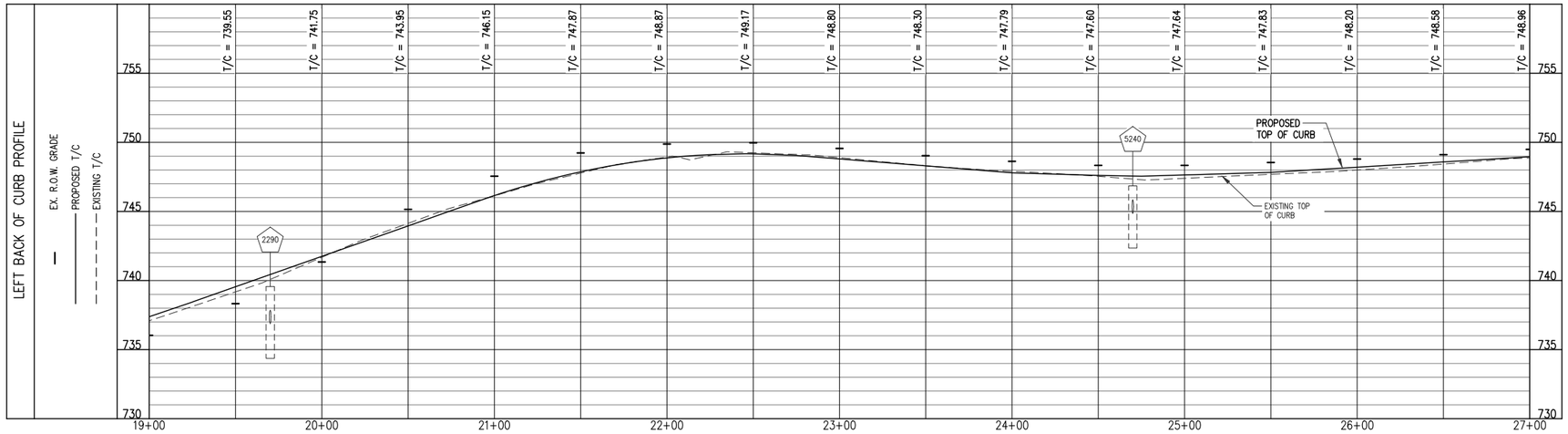


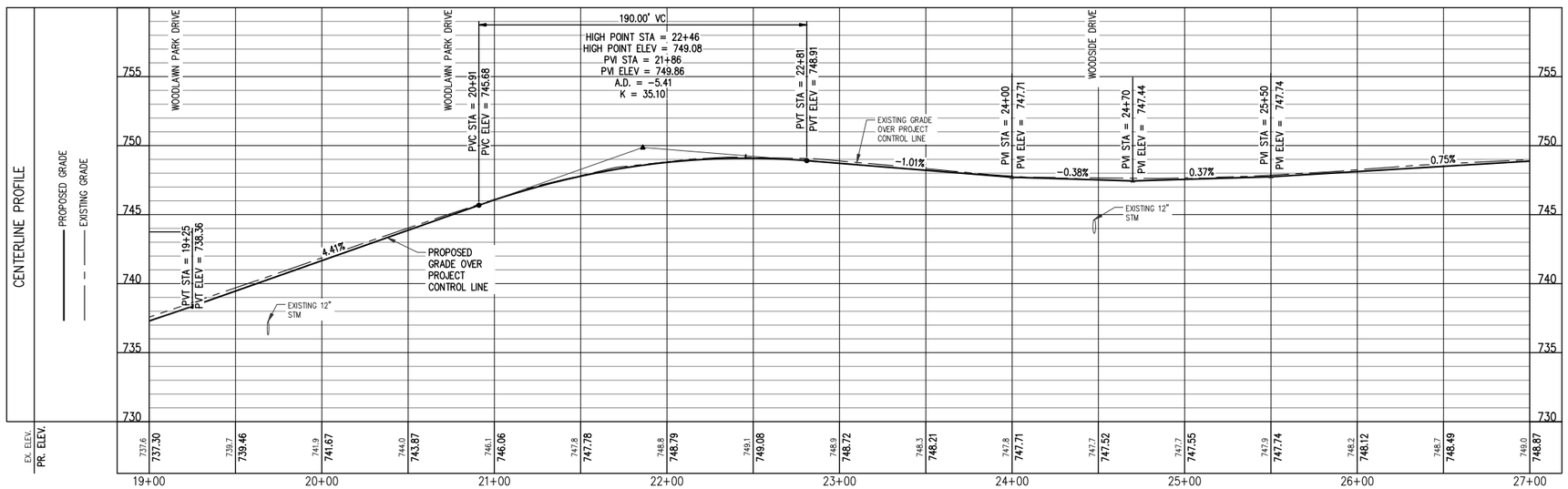


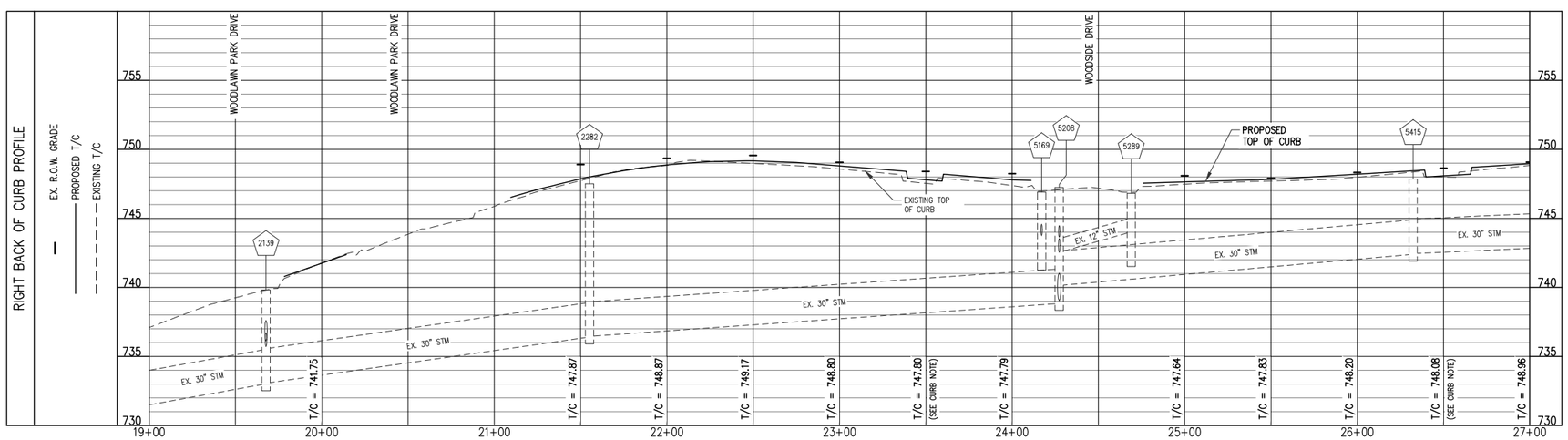


## CURB NOTE

T/C CURB ELEVATIONS IN DRIVE OPENINGS ARE TO TOP OF L OPENING (KNOCKED DOWN CURB). ADD 0.50' TO GET FULL HEIGHT CURB FOR STRINGING/STAKING PURPOSES.

Know what's **below.**
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HOR: 0 40 ft 80 ft
VER: 0 5 ft 10 ft

**PLAN SUBMITTALS AND CHANGES**

BIDDING DOCUMENTS

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PLAN DATE: JUNE 2019
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REVIEWER: TCL
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ROAD AND STORM SEWER PROFILE SHEET

REV:

SHT# 25 OF 100

JOB No: 18C0137

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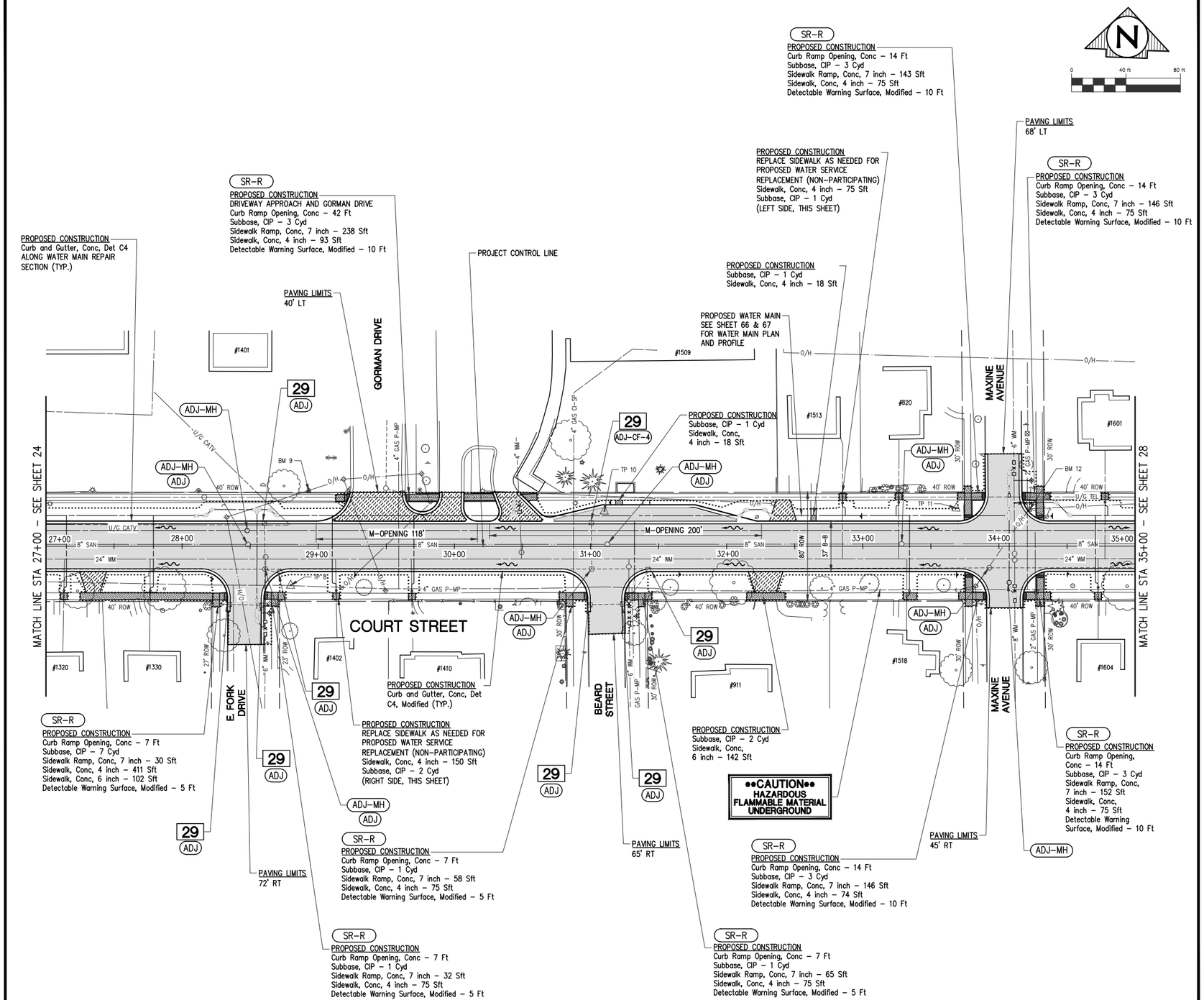


## SHEET QUANTITIES
## CATEGORY 1 - PARTICIPATING

| DESCRIPTION | QUANTITY | UNITS |
|---|---|---|
| Erosion Control, Inlet Protection, Fabric Drop | 8 | Ea |
| Subbase, CIP | 64 | Cyd |
| Aggregate Base, 8 inch, Modified | 715 | Syd |
| Manhole Cover, Adj | 8 | Ea |
| Structure Cover, Adj, Case 1 | 14 | Ea |
| Underdrain, Subbase, 6 inch | 1600 | Ft |
| HMA, 4E1 | 320 | Ton |
| HMA, 5E1 | 320 | Ton |
| Lane Tie, Epoxy Anchored | 675 | Ea |
| Driveway, Nonreinf Conc, 6 inch | 89 | Syd |
| Driveway, Nonreinf Conc, 8 inch | 216 | Syd |
| Curb and Gutter, Conc, Det C4 | 720 | Ft |
| Driveway Opening, Conc, Det M | 319 | Ft |
| Curb and Gutter, Conc, Det C4, Modified | 1220 | Ft |
| Curb Ramp Opening, Conc | 126 | Ft |
| Sidewalk Ramp, Conc, 7 inch | 1010 | Sft |
| Sidewalk, Conc, 4 inch | 1064 | Sft |
| Sidewalk, Conc, 6 inch | 244 | Sft |
| Detectable Warning Surface, Modified | 70 | Ft |

## SHEET QUANTITIES
## CATEGORY 3 - NON-PARTICIPATING

| DESCRIPTION | QUANTITY | UNITS |
|---|---|---|
| Subbase, CIP | 3 | Cyd |
| Aggregate Base, 8 inch, Modified | 1165 | Syd |
| HMA, 3C | 390 | Ton |
| Sidewalk, Conc, 4 inch | 225 | Sft |

## DRIVEWAY REPLACEMENT SCHEDULE

| C/L DRIVEWAY STATION | PROPOSED DRIVEWAY TYPE | WIDTH AT ROAD (FT) | WIDTH AT BACK OF DRIVEWAY (FT) | LENGTH OF DRIVEWAY REPLACEMENT FROM B/C (FT) | EXISTING SLOPE (%) | PROPOSED SLOPE (%) | Subbase, CIP (CYD) | Pavt, Rem, Modified (SYD) | Driveway, Nonreinf Conc, 6 inch (SYD) | Driveway, Nonreinf Conc, 8 inch (SYD) |
|---|---|---|---|---|---|---|---|---|---|---|
| 27+34 R | CONC | 20 | 10 | 16 | 1.9 | 1.3 | 3 | 25 | 27 | |
| 29+44 L | CONC | SEE PLAN | 36 | 21 | 2.7 | 3.2 | 14 | 130 | | 118 |
| 29+97 L | CONC | SEE PLAN | 16 | 21 | 2.9 | 2.7 | 5 | 25 | | 44 |
| 30+49 L | CONC | SEE PLAN | 16 | 21 | 2.7 | 2.9 | 6 | 29 | | 54 |
| 32+28 R | CONC | 26 | 16 | 16 | 4.5 | 3.7 | 4 | 31 | 36 | |
| 32+42 L | CONC | 20 | 10 | 15 | 5.2 | 5.7 | 3 | 17 | 26 | |

Know what's **below.**
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## 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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# CITY OF FLINT
# COURT STREET REHABILITATION
STA. 27+00 TO STA. 35+00
ROAD AND STORM SEWER PLAN SHEET

R:\Projects\18C0137\Dwg\Construction Drawings\XX-18C0137-RSPL_P08 TO DOR1.dwg

REV:

SHT# 26 OF 100

JOB No: 18C0137

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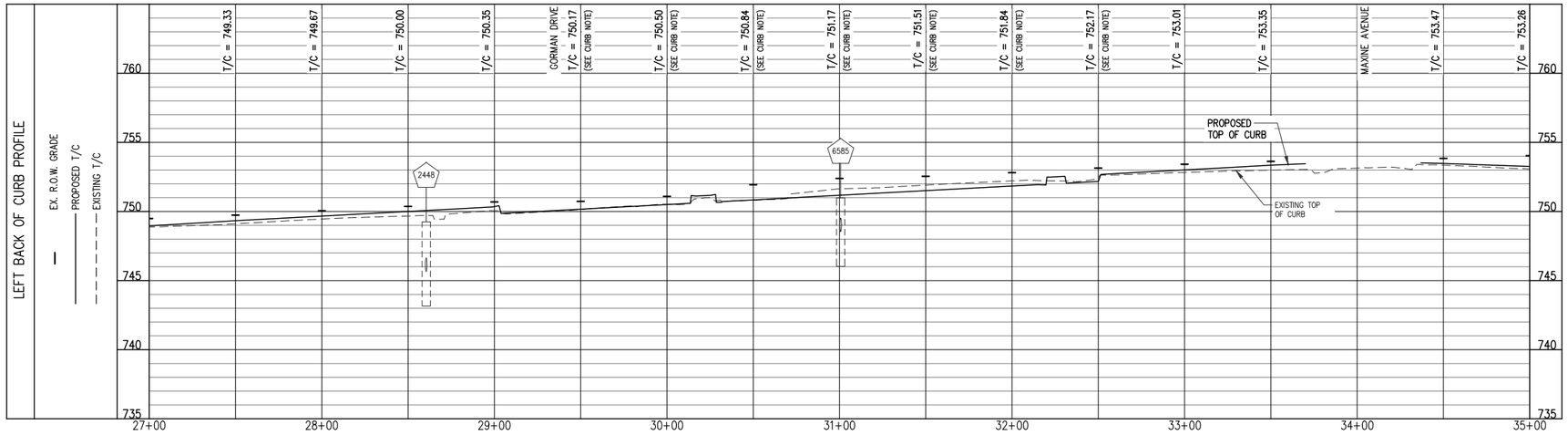


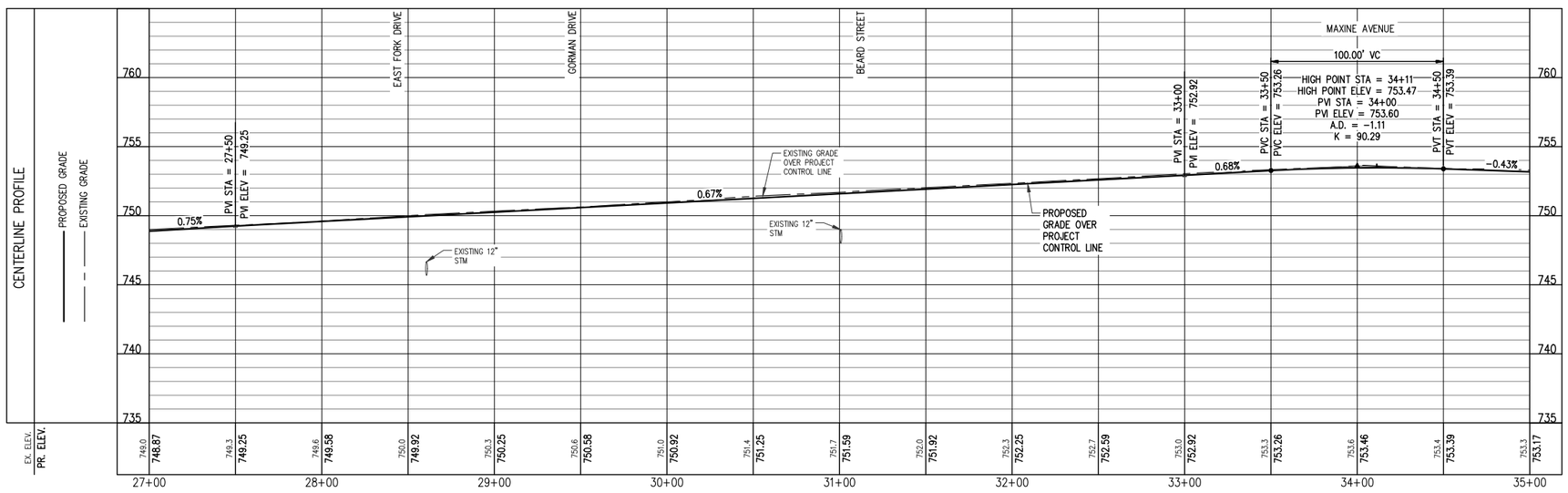


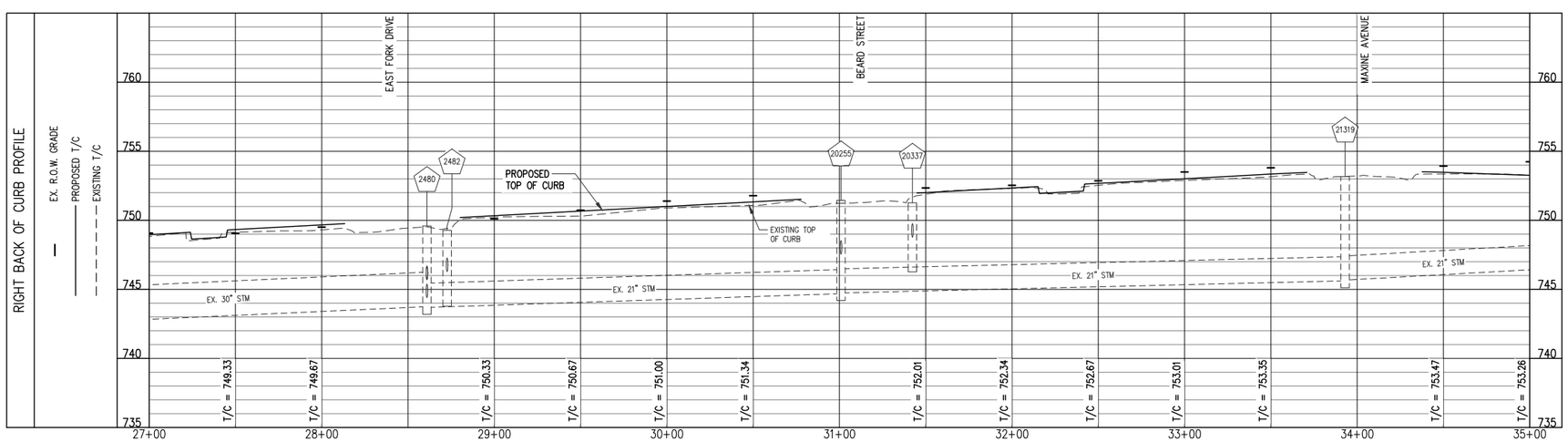


## CURB NOTE

T/C CURB ELEVATIONS IN DRIVE OPENINGS ARE TO TOP OF L OPENING (KNOCKED DOWN CURB). ADD 0.50' TO GET FULL HEIGHT CURB FOR STRINGING/STAKING PURPOSES.

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HOR: 0 40 ft 80 ft
VERT: 0 5 ft 10 ft

**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


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STA. 27+00 TO STA. 35+00
ROAD AND STORM SEWER PROFILE SHEET

REV:

SHT# 27 OF 100

JOB No: 18C0137

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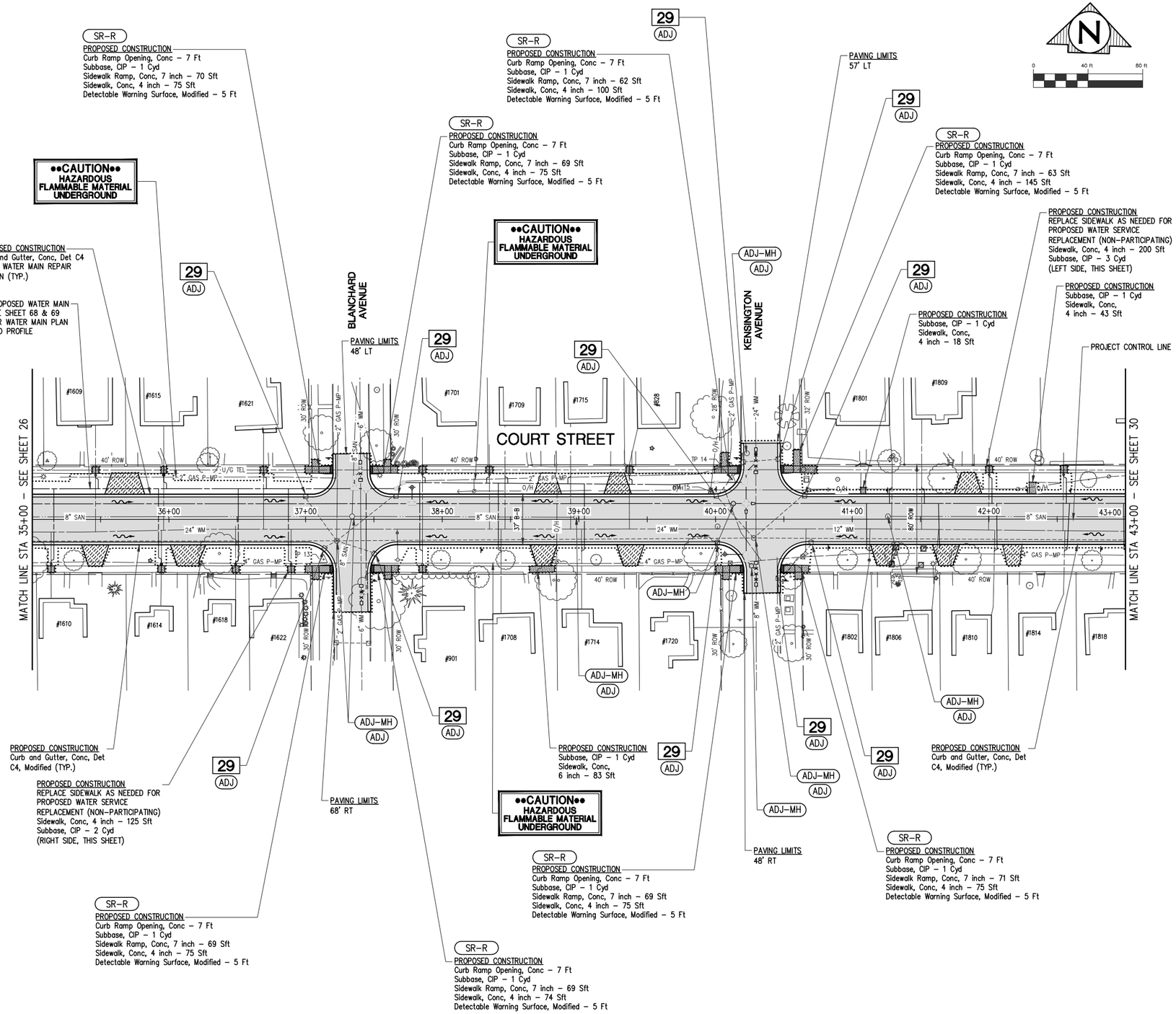


## SHEET QUANTITIES
## CATEGORY 1 - PARTICIPATING

| DESCRIPTION | QUANTITY | UNITS |
|---|---|---|
| Erosion Control, Inlet Protection, Fabric Drop | 11 | Ea |
| Subbase, CIP | 47 | Cyd |
| Aggregate Base, 8 inch, Modified | 895 | Syd |
| Manhole Cover, Adj | 7 | Ea |
| Structure Cover, Adj, Case 1 | 17 | Ea |
| Underdrain, Subbase, 6 inch | 2000 | Ft |
| HMA, 4E1 | 315 | Ton |
| HMA, 5E1 | 315 | Ton |
| Lane Tie, Epoxy Anchored | 510 | Ea |
| Driveway, Nonreinf Conc, 6 inch | 311 | Syd |
| Curb and Gutter, Conc, Det C4 | 885 | Ft |
| Curb and Gutter, Conc, Det C4, Modified | 990 | Ft |
| Curb Ramp Opening, Conc | 56 | Ft |
| Sidewalk Ramp, Conc, 7 inch | 542 | Sft |
| Sidewalk, Conc, 4 inch | 754 | Sft |
| Sidewalk, Conc, 6 inch | 83 | Sft |
| Detectable Warning Surface, Modified | 40 | Ft |

## SHEET QUANTITIES
## CATEGORY 3 - NON-PARTICIPATING

| DESCRIPTION | QUANTITY | UNITS |
|---|---|---|
| Subbase, CIP | 5 | Cyd |
| Aggregate Base, 8 inch, Modified | 1435 | Syd |
| HMA, 3C | 440 | Ton |
| Sidewalk, Conc, 4 inch | 325 | Sft |

## DRIVEWAY REPLACEMENT SCHEDULE

| C/L DRIVEWAY STATION | PROPOSED DRIVEWAY TYPE | WIDTH AT ROAD (FT) | WIDTH AT BACK OF DRIVEWAY (FT) | LENGTH OF DRIVEWAY REPLACEMENT FROM B/C (FT) | EXISTING SLOPE (%) | PROPOSED SLOPE (%) | Subbase, CIP (CYD) | Pavt, Rem, Modified (SYD) | Driveway, Nonreinf Conc, 6 inch (SYD) |
|---|---|---|---|---|---|---|---|---|---|
| 35+45 R | CONC | 20 | 10 | 16 | 8.4 | 8.8 | 3 | 26 | 26 |
| 35+67 L | CONC | 30 | 20 | 16 | 8.9 | 8.6 | 5 | 44 | 42 |
| 36+14 R | CONC | 26 | 16 | 16 | 9.4 | 7.2 | 4 | 29 | 35 |
| 38+74 R | CONC | 20 | 10 | 16 | 5.6 | 4.8 | 3 | 20 | 26 |
| 38+78 L | CONC | 20 | 10 | 16 | 2.9 | 3.1 | 3 | 21 | 26 |
| 39+28 L | CONC | 20 | 10 | 16 | 3.9 | 4.6 | 3 | 22 | 26 |
| 39+38 R | CONC | 20 | 10 | 16 | 5.2 | 4.7 | 3 | 23 | 26 |
| 41+22 R | CONC | 20 | 10 | 16 | 6.9 | 7.3 | 3 | 20 | 26 |
| 41+68 R | CONC | 20 | 10 | 16 | 7.4 | 6.9 | 3 | 18 | 26 |
| 41+85 L | CONC | 20 | 10 | 16 | 7.2 | 7.5 | 3 | 20 | 26 |
| 42+17 R | CONC | 20 | 10 | 16 | 7.9 | 8.1 | 3 | 21 | 26 |

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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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REVIEWER: TCL
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STA. 35+00 TO STA. 43+00
ROAD AND STORM SEWER PLAN SHEET

REV:

SHT# 28 OF 100
JOB No: 18C0137

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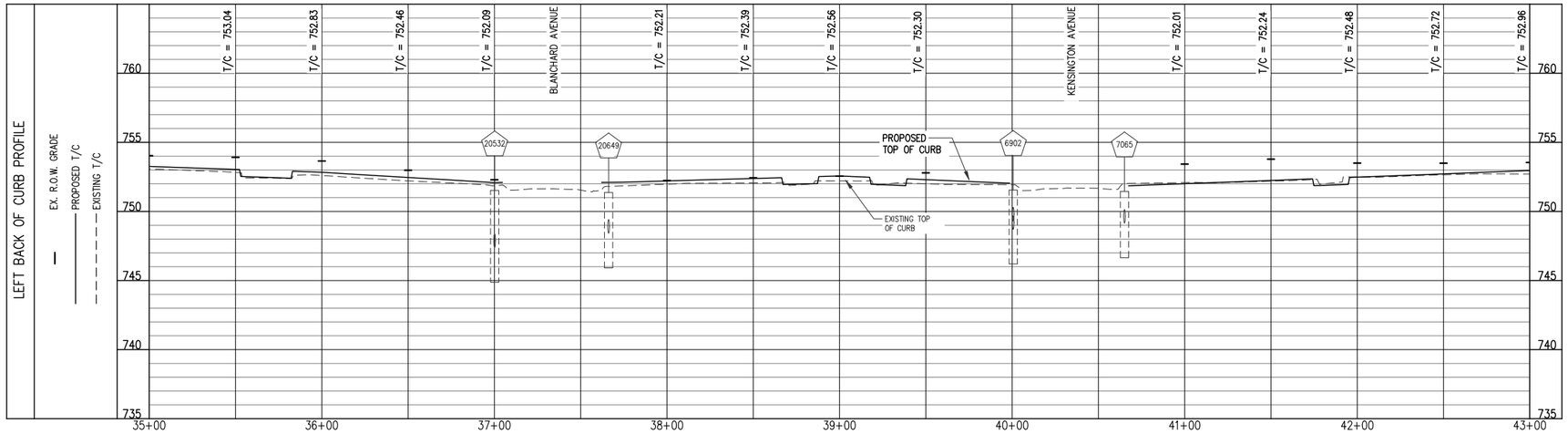


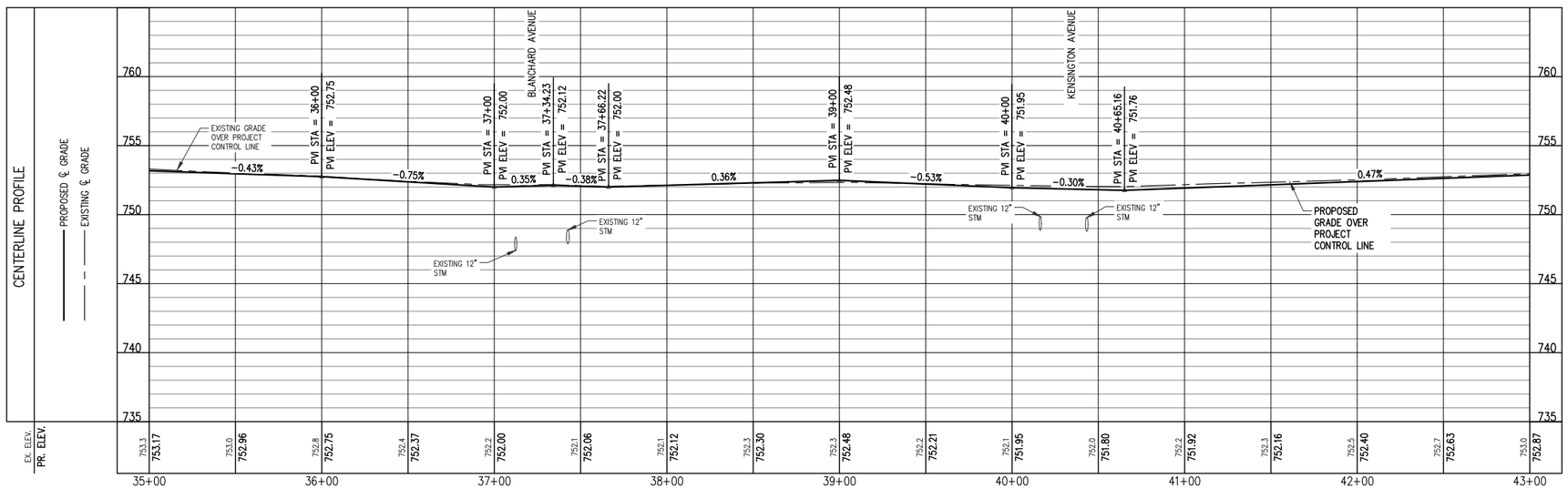


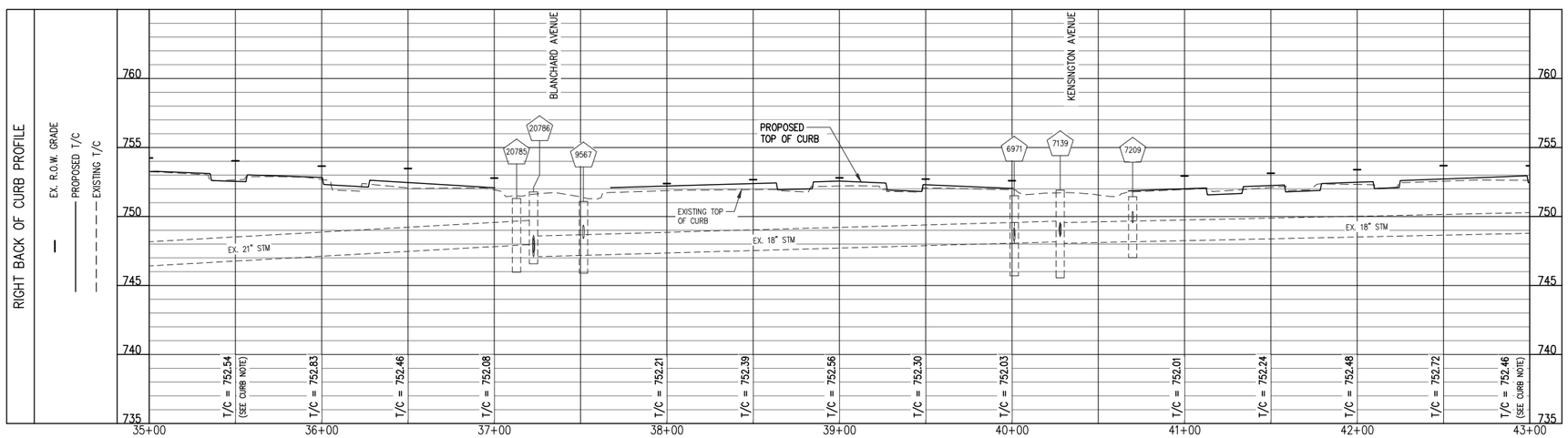


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HOR: 0 40 ft 80 ft
VERT: 0 5 ft 10 ft

**PLAN SUBMITTALS AND CHANGES**

BIDDING DOCUMENTS

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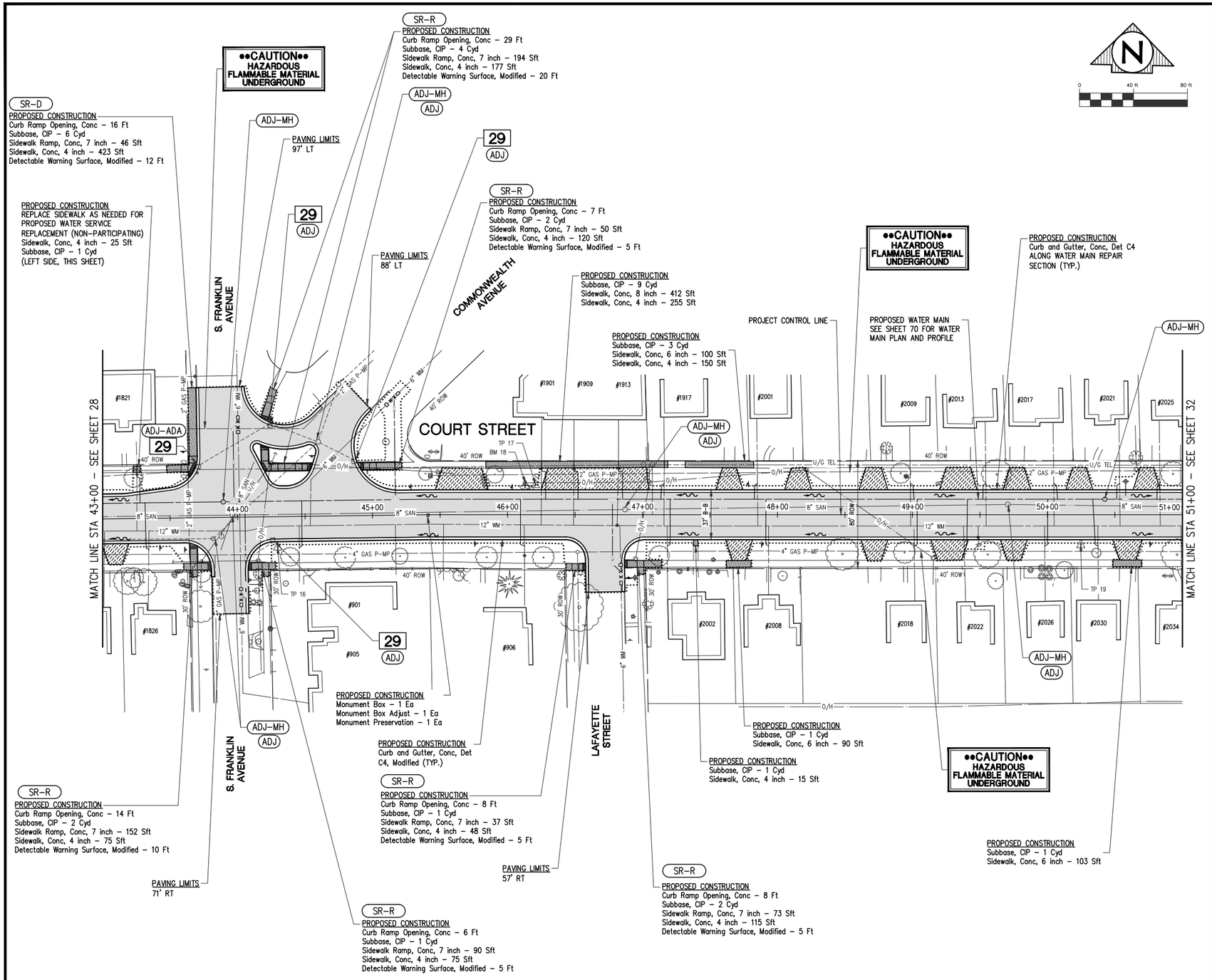


## SHEET QUANTITIES
## CATEGORY 1 - PARTICIPATING

| DESCRIPTION | QUANTITY | UNITS |
|---|---|---|
| Erosion Control, Inlet Protection, Fabric Drop | 4 | Ea |
| Subbase, CIP | 104 | Cyd |
| Aggregate Base, 8 inch, Modified | 750 | Syd |
| Dr Structure Cover, ADA Compliant | 1 | Ea |
| Manhole Cover, Adj | 7 | Ea |
| Structure Cover, Adj, Case 1 | 8 | Ea |
| Underdrain, Subbase, 6 inch | 800 | Ft |
| HMA, 4E1 | 365 | Ton |
| HMA, 5E1 | 365 | Ton |
| Lane Tie, Epoxy Anchored | 645 | Ea |
| Driveway, Nonreinf Conc, 6 inch | 383 | Syd |
| Driveway, Nonreinf Conc, 8 inch | 201 | Syd |
| Curb and Gutter, Conc, Det C4 | 700 | Ft |
| Curb and Gutter, Conc, Det C4, Modified | 1200 | Ft |
| Curb Ramp Opening, Conc | 88 | Ft |
| Sidewalk Ramp, Conc, 7 inch | 642 | Sft |
| Sidewalk, Conc, 4 inch | 1453 | Sft |
| Sidewalk, Conc, 6 inch | 293 | Sft |
| Detectable Warning Surface, Modified | 62 | Ft |
| Sidewalk, Conc, 8 inch | 412 | Sft |
| Monument Box | 1 | Ea |
| Monument Box Adjust | 1 | Ea |
| Monument Preservation | 1 | Ea |

## SHEET QUANTITIES
## CATEGORY 3 - NON-PARTICIPATING

| DESCRIPTION | QUANTITY | UNITS |
|---|---|---|
| Subbase, CIP | 1 | Cyd |
| Aggregate Base, 8 inch, Modified | 1400 | Syd |
| HMA, 3C | 435 | Ton |
| Sidewalk, Conc, 4 inch | 25 | Sft |

## DRIVEWAY REPLACEMENT SCHEDULE

| C/L DRIVEWAY STATION | PROPOSED DRIVEWAY TYPE | WIDTH AT ROAD (FT) | WIDTH AT BACK OF DRIVEWAY (FT) | LENGTH OF DRIVEWAY REPLACEMENT FROM B/C (FT) | EXISTING SLOPE (%) | PROPOSED SLOPE (%) | Subbase, CIP (CYD) | Pavt, Rem, Modified (SYD) | Driveway, Nonreinf Conc, 6 inch (SYD) | Driveway, Nonreinf Conc, 8 inch (SYD) |
|---|---|---|---|---|---|---|---|---|---|---|
| 43+09 R | CONC | 20 | 10 | 15 | 8.1 | 6.9 | 3 | 20 | 26 | |
| 45+66 L | CONC | 39 | 29 | 16 | 3.2 | 2.6 | 7 | 59 | | 62 |
| 46+64 L | CONC | 80 | 73 | 16 | 2.2 | 2.3 | 16 | 146 | | 139 |
| 47+67 L | CONC | 20 | 10 | 16 | 4.1 | 4.5 | 3 | 20 | 27 | |
| 47+72 R | CONC | 20 | 10 | 16 | 2.1 | 2.9 | 3 | 19 | 26 | |
| 48+15 L | CONC | 20 | 10 | 16 | 4.7 | 4.8 | 3 | 21 | 27 | |
| 48+72 L | CONC | 21 | 11 | 16 | 3.9 | 4.3 | 4 | 27 | 30 | |
| 48+72 R | CONC | 20 | 10 | 15 | 1.9 | 2.5 | 3 | 20 | 26 | |
| 49+28 R | CONC | 28 | 18 | 15 | 2.5 | 3.2 | 5 | 28 | 39 | |
| 49+35 L | CONC | 28 | 18 | 16 | 4.4 | 4.6 | 5 | 37 | 42 | |
| 49+75 R | CONC | 20 | 10 | 15 | 2.2 | 3.1 | 3 | 22 | 26 | |
| 49+78 L | CONC | 21 | 11 | 16 | 3.8 | 4.1 | 4 | 21 | 29 | |
| 50+23 L | CONC | 20 | 10 | 16 | 3.8 | 3.9 | 4 | 23 | 28 | |
| 50+60 R | CONC | 22 | 12 | 15 | 3.6 | 4.2 | 4 | 25 | 29 | |
| 50+74 L | CONC | 20 | 10 | 16 | 3.1 | 2.5 | 4 | 23 | 28 | |

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## PLAN SUBMITTALS AND CHANGES

BIDDING DOCUMENTS

| DATE | DESCRIPTION |
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PLAN DATE: JUNE 2019
PROJECT MGR: JMB
REVIEWER: TCL
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ROAD AND STORM SEWER PLAN SHEET

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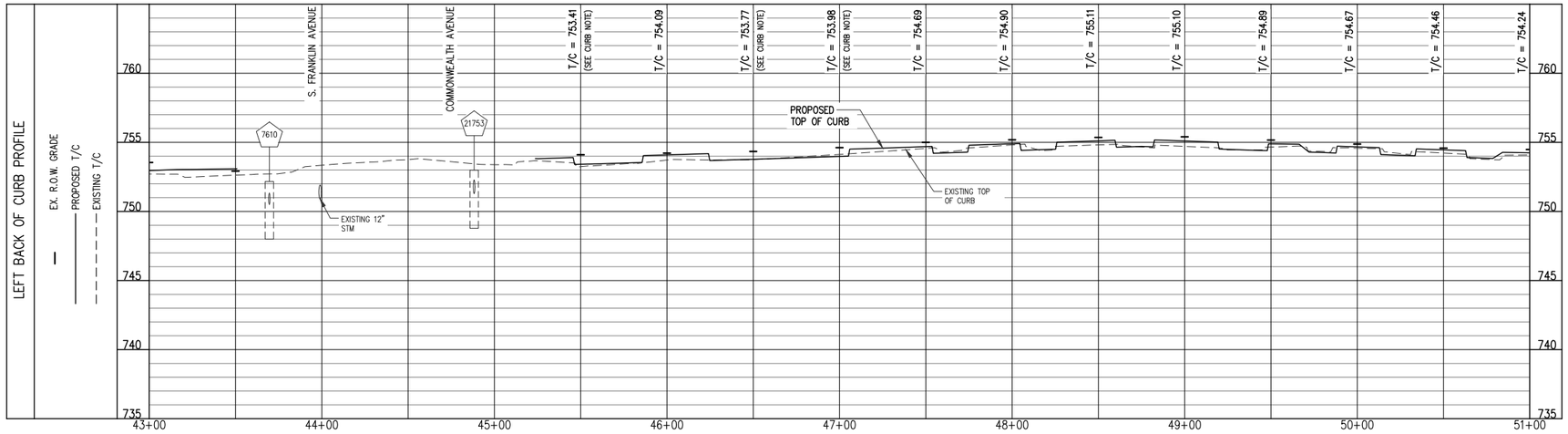
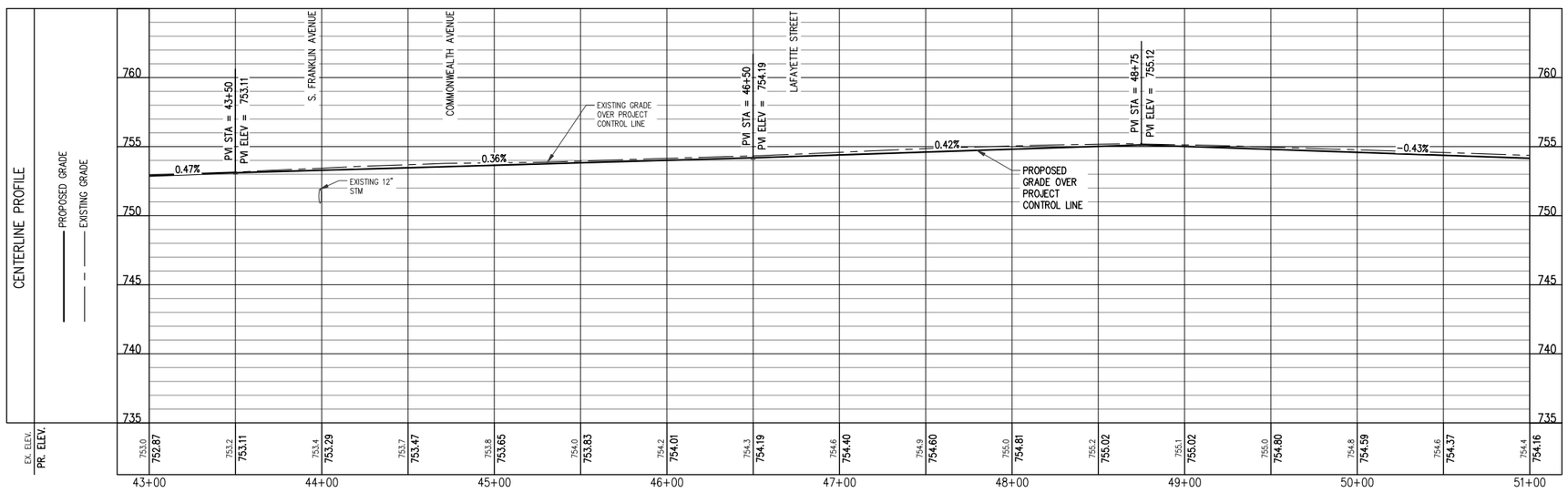
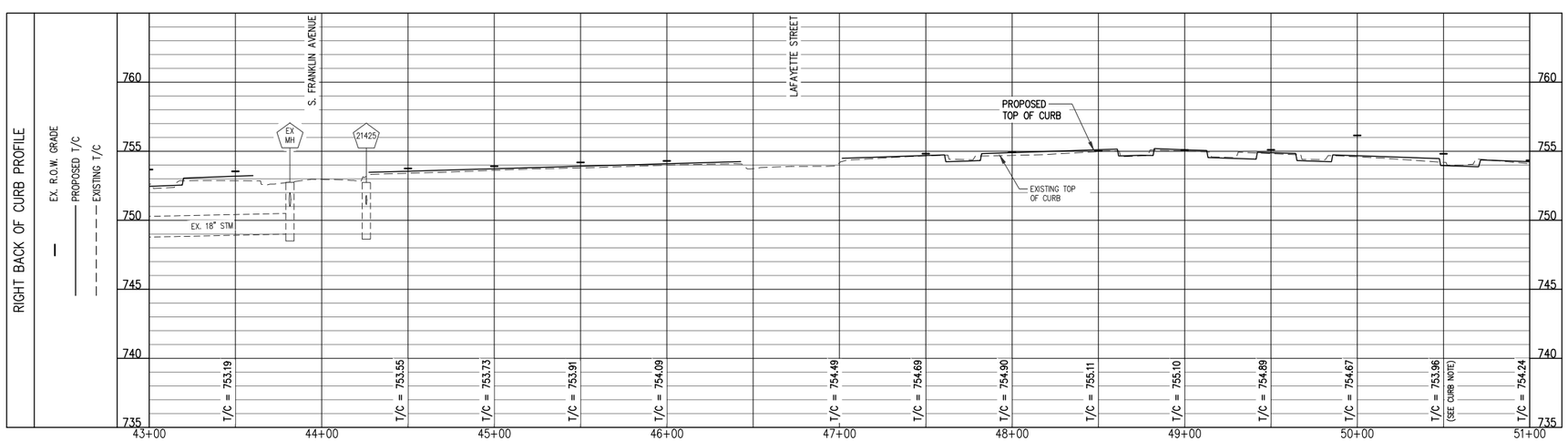
JOB No: 18C0137




## CURB NOTE

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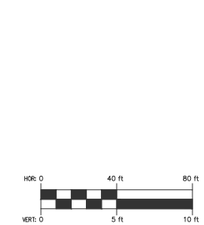


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**PLAN SUBMITTALS AND CHANGES**

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STA. 43+00 TO STA. 51+00
ROAD AND STORM SEWER PROFILE SHEET

REV:

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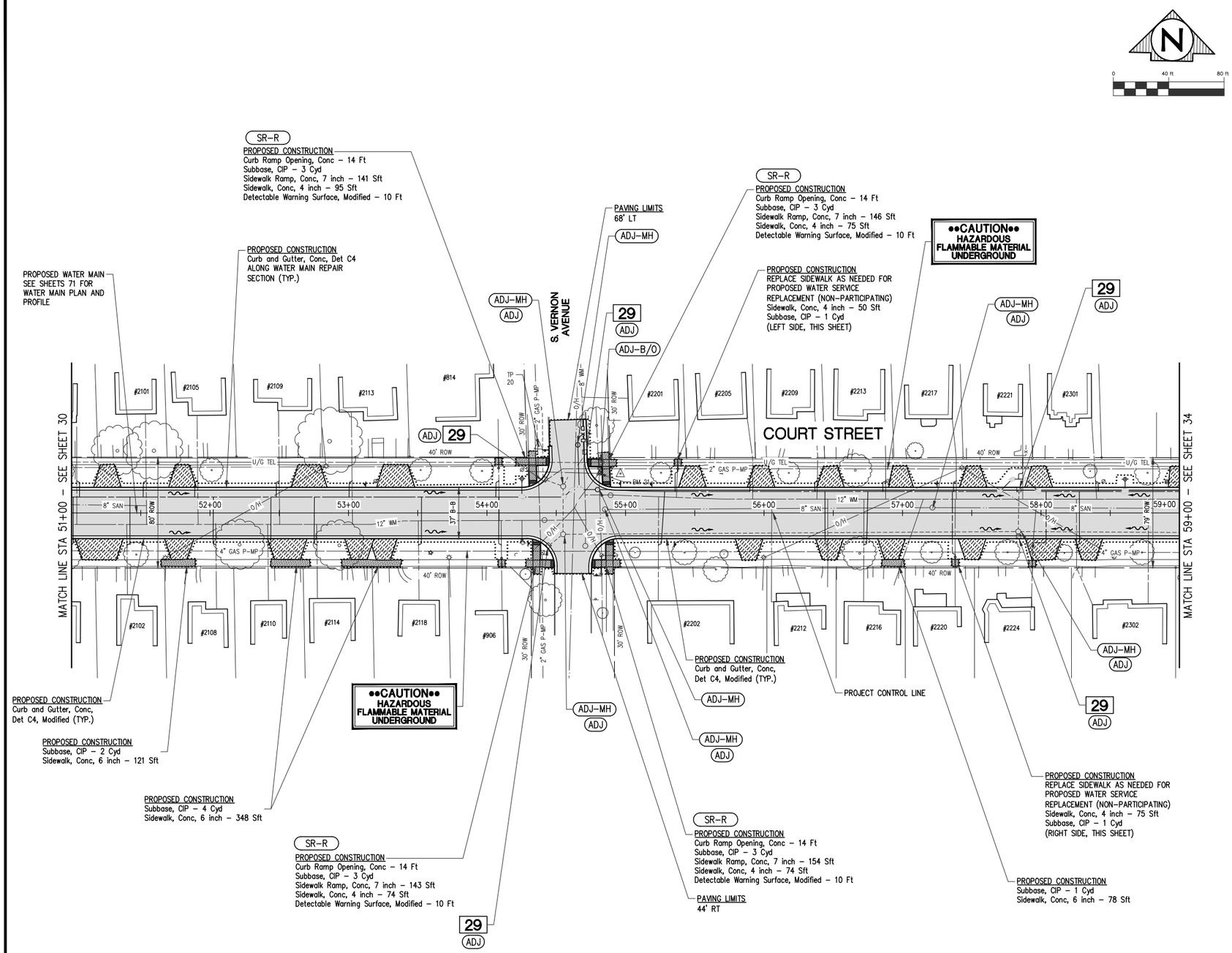


## SHEET QUANTITIES
## CATEGORY 1 - PARTICIPATING

| DESCRIPTION | QUANTITY | UNITS |
|---|---|---|
| Erosion Control, Inlet Protection, Fabric Drop | 5 | Ea |
| Subbase, CIP | 97 | Cyd |
| Aggregate Base, 8 inch, Modified | 620 | Syd |
| Manhole Cover, Adj | 7 | Ea |
| Structure Cover, Adj, Case 1 | 11 | Ea |
| Underdrain, Subbase, 6 inch | 800 | Ft |
| HMA, 4E1 | 290 | Ton |
| HMA, 5E1 | 290 | Ton |
| Lane Tie, Epoxy Anchored | 458 | Ea |
| Driveway, Nonreinf Conc, 6 inch | 654 | Syd |
| Curb and Gutter, Conc, Det C4 | 790 | Ft |
| Curb and Gutter, Conc, Det C4, Modified | 860 | Ft |
| Curb Ramp Opening, Conc | 56 | Ft |
| Sidewalk Ramp, Conc, 7 inch | 584 | Sft |
| Sidewalk, Conc, 4 inch | 318 | Sft |
| Sidewalk, Conc, 6 inch | 547 | Sft |
| Detectable Warning Surface, Modified | 40 | Ft |

## SHEET QUANTITIES
## CATEGORY 3 - NON-PARTICIPATING

| DESCRIPTION | QUANTITY | UNITS |
|---|---|---|
| Subbase, CIP | 2 | Cyd |
| Aggregate Base, 8 inch, Modified | 1060 | Syd |
| HMA, 3C | 300 | Ton |
| Sidewalk, Conc, 4 inch | 125 | Sft |

## DRIVEWAY REPLACEMENT SCHEDULE

| C/L DRIVEWAY STATION | PROPOSED DRIVEWAY TYPE | WIDTH AT ROAD (FT) | WIDTH AT BACK OF DRIVEWAY (FT) | LENGTH OF DRIVEWAY REPLACEMENT FROM B/C (FT) | EXISTING SLOPE (%) | PROPOSED SLOPE (%) | Subbase, CIP (CYD) | Pavt, Rem, Modified (SYD) | Driveway, Nonreinf Conc, 6 inch (SYD) |
|---|---|---|---|---|---|---|---|---|---|
| 51+20 R | CONC | 35 | 25 | 16 | 2.8 | 2.6 | 6 | 44 | 51 |
| 51+26 L | CONC | 20 | 10 | 17 | 3.9 | 3.7 | 3 | 20 | 28 |
| 51+78 R | CONC | 21 | 11 | 15 | 1.5 | 2 | 3 | 19 | 27 |
| 51+80 L | CONC | 20 | 10 | 16 | 4.1 | 3.3 | 3 | 18 | 27 |
| 52+56 R | CONC | 29 | 19 | 15 | 3.6 | 3.6 | 5 | 27 | 40 |
| 52+72 L | CONC | 26 | 16 | 16 | 4.2 | 3.8 | 5 | 31 | 38 |
| 53+08 R | CONC | 21 | 11 | 15 | 3.3 | 4.2 | 4 | 26 | 28 |
| 53+25 R | CONC | 17 | 10 | 15 | 2.8 | 2.9 | 3 | 17 | 25 |
| 53+34 L | CONC | 28 | 18 | 16 | 3 | 3.6 | 5 | 32 | 41 |
| 55+48 L | CONC | 20 | 10 | 15 | 0.8 | 0.2 | 3 | 19 | 27 |
| 55+89 R | CONC | 20 | 10 | 15 | 0.5 | 0.1 | 3 | 22 | 26 |
| 55+98 L | CONC | 20 | 10 | 15 | 0.5 | 0 | 3 | 20 | 26 |
| 56+47 R | CONC | 20 | 10 | 15 | 0.2 | 0.8 | 3 | 20 | 26 |
| 56+48 L | CONC | 20 | 10 | 15 | 2 | 1.9 | 3 | 18 | 26 |
| 56+92 R | CONC | 20 | 10 | 15 | 0.9 | 0.9 | 3 | 18 | 26 |
| 56+98 L | CONC | 18 | 10 | 15 | 2.3 | 2.2 | 3 | 21 | 26 |
| 57+50 R | CONC | 20 | 10 | 15 | 0.3 | 0.5 | 3 | 21 | 26 |
| 57+51 L | CONC | 20 | 10 | 15 | 2.4 | 2.5 | 3 | 21 | 26 |
| 57+98 L | CONC | 20 | 10 | 15 | 2.2 | 2.5 | 3 | 20 | 26 |
| 58+01 R | CONC | 26 | 16 | 15 | 0.4 | 0.6 | 4 | 24 | 36 |
| 58+35 R | CONC | 20 | 10 | 15 | 0.9 | 0.4 | 3 | 21 | 26 |
| 58+98 L | CONC | 16 | 10 | 15 | 2.9 | 3.3 | 3 | 12 | 26 |

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**PLAN SUBMITTALS AND CHANGES**

BIDDING DOCUMENTS

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| 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. 51+00 TO STA. 59+00
ROAD AND STORM SEWER PLAN SHEET

REV:

SHT# 32 OF 100

JOB No: 18C0137

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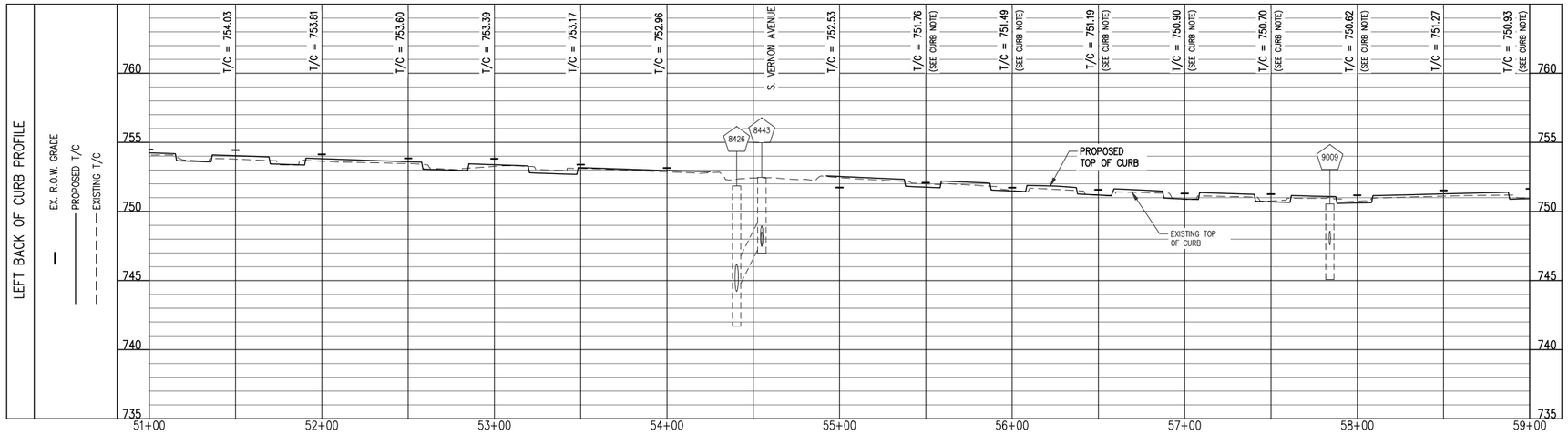


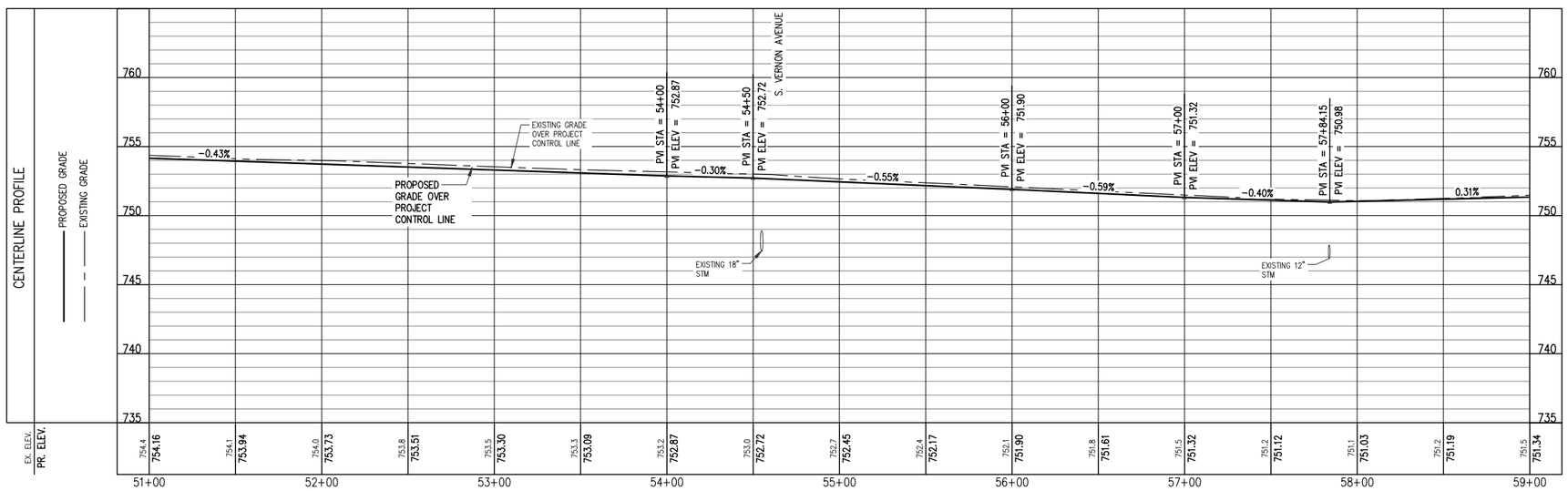


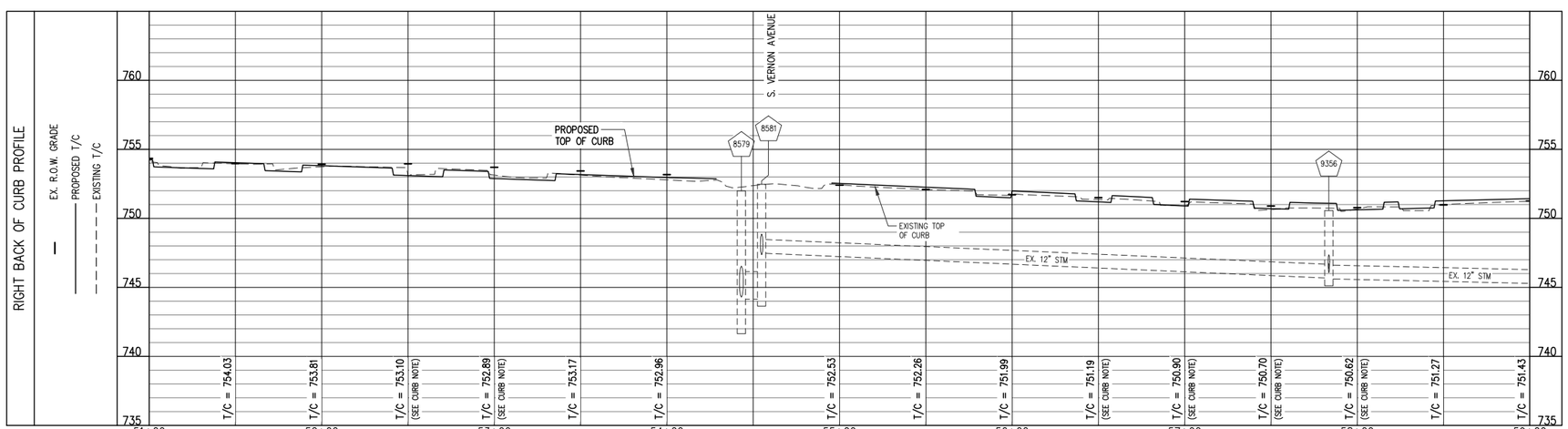


## CURB NOTE

T/C CURB ELEVATIONS IN DRIVE OPENINGS ARE TO TOP OF L OPENING (KNOCKED DOWN CURB). ADD 0.50' TO GET FULL HEIGHT CURB FOR STRINGING/STAKING PURPOSES.

HOR: 0 40 ft 80 ft
VERT: 0 5 ft 10 ft

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

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

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PROJECT MGR: JMB
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REV:

SHT# 33 OF 100
JOB No: 18C0137

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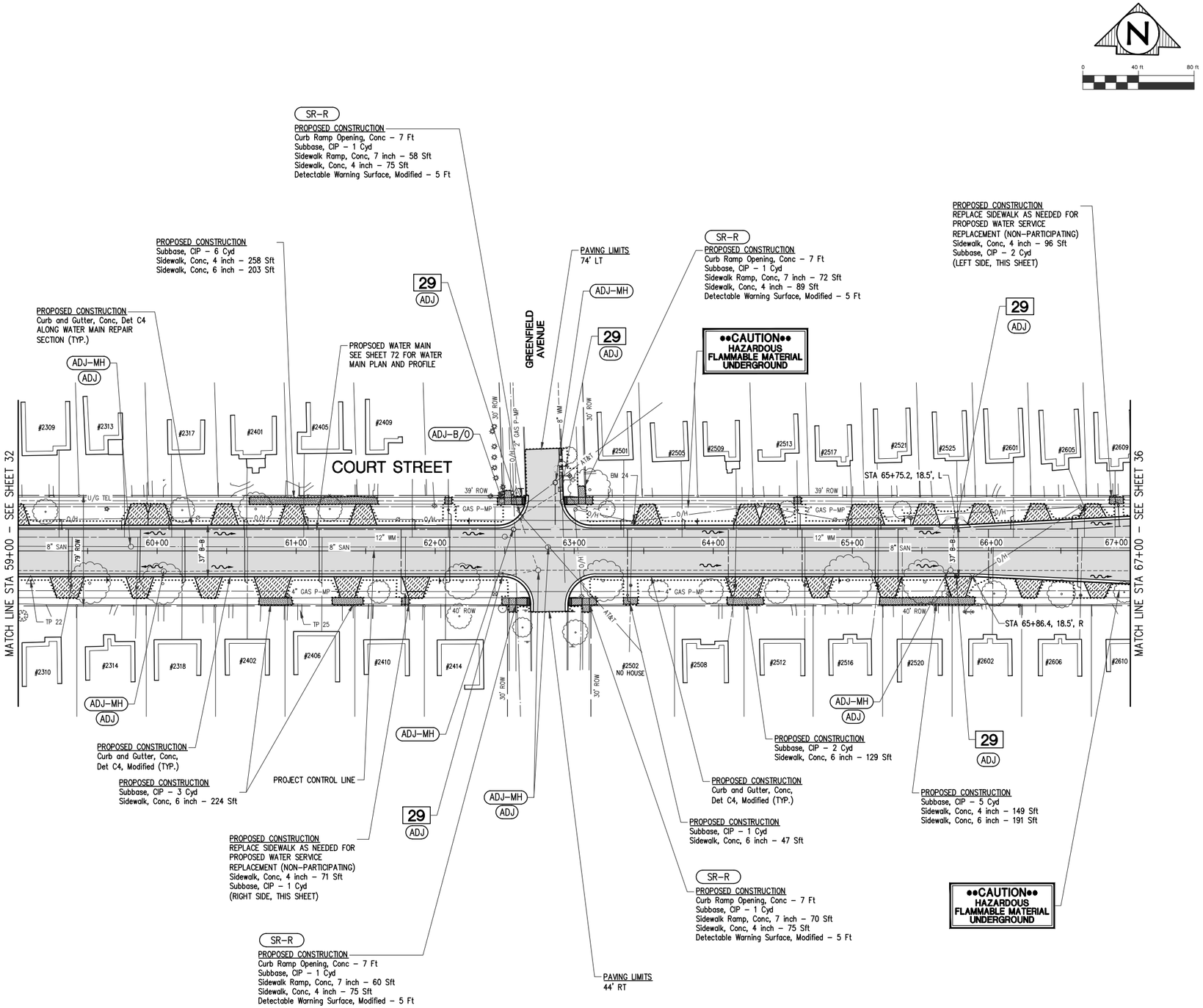


## SHEET QUANTITIES
## CATEGORY 1 - PARTICIPATING

| DESCRIPTION | QUANTITY | UNITS |
|---|---|---|
| Erosion Control, Inlet Protection, Fabric Drop | 5 | Ea |
| Subbase, CIP | 102 | Cyd |
| Aggregate Base, 8 inch, Modified | 945 | Syd |
| Manhole Cover, Adj | 6 | Ea |
| Structure Cover, Adj, Case 1 | 11 | Ea |
| Underdrain, Subbase, 6 inch | 800 | Ft |
| HMA, 4E1 | 300 | Ton |
| HMA, 5E1 | 300 | Ton |
| Lane Tie, Epoxy Anchored | 457 | Ea |
| Driveway, Nonreinf Conc, 6 inch | 661 | Syd |
| Curb and Gutter, Conc, Det C4 | 840 | Ft |
| Curb and Gutter, Conc, Det C4, Modified | 885 | Ft |
| Curb Ramp Opening, Conc | 28 | Ft |
| Sidewalk Ramp, Conc, 7 inch | 260 | Sft |
| Sidewalk, Conc, 4 inch | 721 | Sft |
| Sidewalk, Conc, 6 inch | 794 | Sft |
| Detectable Warning Surface, Modified | 20 | Ft |

## SHEET QUANTITIES
## CATEGORY 3 - NON-PARTICIPATING

| DESCRIPTION | QUANTITY | UNITS |
|---|---|---|
| Subbase, CIP | 3 | Cyd |
| Aggregate Base, 8 inch, Modified | 942 | Syd |
| HMA, 3C | 255 | Ton |
| Sidewalk, Conc, 4 inch | 167 | Sft |

## DRIVEWAY REPLACEMENT SCHEDULE

| C/L DRIVEWAY STATION | PROPOSED DRIVEWAY TYPE | WIDTH AT ROAD (FT) | WIDTH AT BACK OF DRIVEWAY (FT) | LENGTH OF DRIVEWAY REPLACEMENT FROM B/C (FT) | EXISTING SLOPE (%) | PROPOSED SLOPE (%) | Subbase, CIP (CYD) | Pavt, Rem, Modified (SYD) | Driveway, Nonreinf Conc, 6 inch (SYD) |
|---|---|---|---|---|---|---|---|---|---|
| 59+35 R | CONC | 25 | 15 | 15 | 2.7 | 2.5 | 4 | 29 | 34 |
| 59+86 L | CONC | 17 | 10 | 15 | 2.7 | 3.4 | 3 | 19 | 24 |
| 59+88 R | CONC | 20 | 10 | 15 | 9 | 3.7 | 3 | 16 | 26 |
| 60+00 L | CONC | 17 | 10 | 15 | 2.8 | 3.9 | 3 | 17 | 24 |
| 60+37 R | CONC | 20 | 10 | 15 | 1.8 | 2.8 | 3 | 19 | 26 |
| 60+48 L | CONC | 20 | 10 | 15 | 4.1 | 4.4 | 3 | 17 | 26 |
| 60+83 R | CONC | 27 | 17 | 15 | 1.2 | 2.8 | 5 | 26 | 38 |
| 60+98 L | CONC | 20 | 10 | 15 | 4.2 | 5.4 | 3 | 23 | 26 |
| 61+37 R | CONC | 20 | 10 | 15 | –1 | –0.1 | 3 | 19 | 26 |
| 61+48 L | CONC | 20 | 10 | 15 | 3.8 | 4.3 | 3 | 19 | 26 |
| 61+86 R | CONC | 20 | 10 | 15 | –1.7 | 0 | 3 | 20 | 26 |
| 63+53 L | CONC | 20 | 10 | 15 | 2.5 | 3.8 | 3 | 16 | 26 |
| 64+23 R | CONC | 27 | 17 | 15 | 0.6 | 0.4 | 5 | 34 | 38 |
| 64+25 L | CONC | 17 | 10 | 15 | 1.6 | 2.1 | 3 | 17 | 25 |
| 64+42 L | CONC | 20 | 10 | 15 | 2 | 2.5 | 3 | 22 | 26 |
| 64+76 R | CONC | 20 | 10 | 15 | 0.7 | 0.2 | 3 | 19 | 26 |
| 65+09 L | CONC | 28 | 18 | 15 | 1.9 | 3.2 | 5 | 34 | 38 |
| 65+26 R | CONC | 20 | 10 | 15 | –3.4 | –1.3 | 3 | 17 | 26 |
| 65+53 L | CONC | 20 | 10 | 15 | 1.7 | 1.5 | 3 | 19 | 26 |
| 65+76 R | CONC | 20 | 10 | 15 | 1.2 | 0.4 | 3 | 19 | 25 |
| 65+93 L | CONC | 20 | 10 | 14 | 2.5 | 2.6 | 3 | 21 | 24 |
| 66+27 R | CONC | 20 | 10 | 13 | 0.9 | 0.2 | 3 | 19 | 22 |
| 66+33 L | CONC | 20 | 10 | 12 | 3.9 | 3.7 | 3 | 18 | 21 |
| 66+73 L | CONC | 20 | 10 | 10 | 4 | 3.7 | 2 | 15 | 17 |
| 66+76 R | CONC | 20 | 10 | 11 | 0.9 | 1.5 | 3 | 138 | 19 |

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## PLAN SUBMITTALS AND CHANGES

BIDDING DOCUMENTS

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STA. 59+00 TO STA. 67+00
ROAD AND STORM SEWER PLAN SHEET

REV:

SHT# 34 OF 100

JOB No: 18C0137

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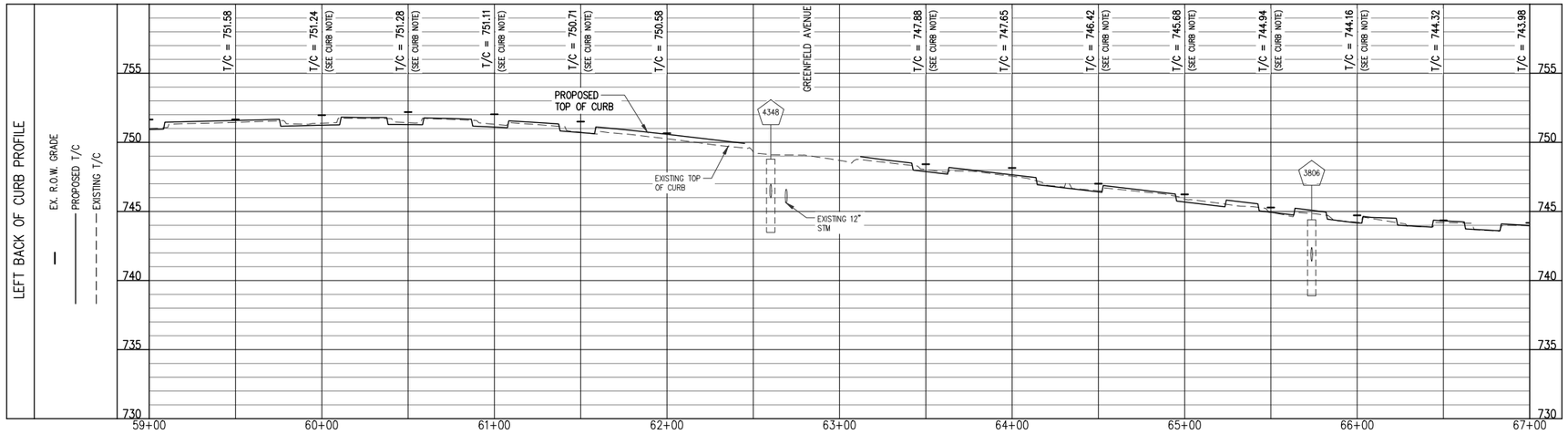


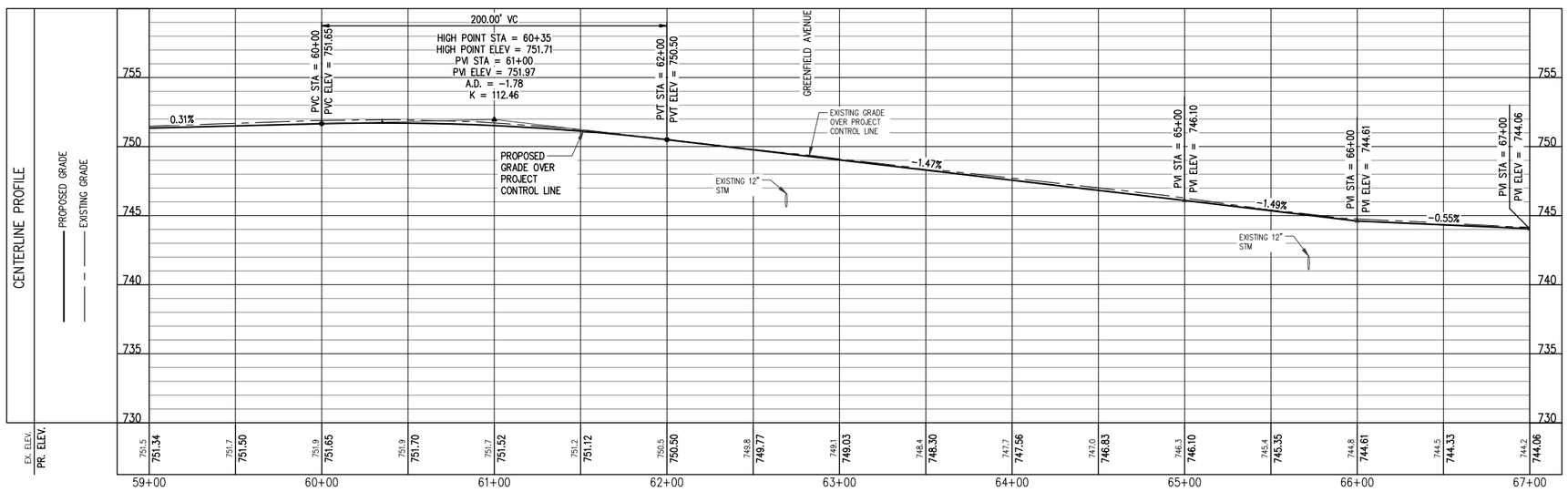


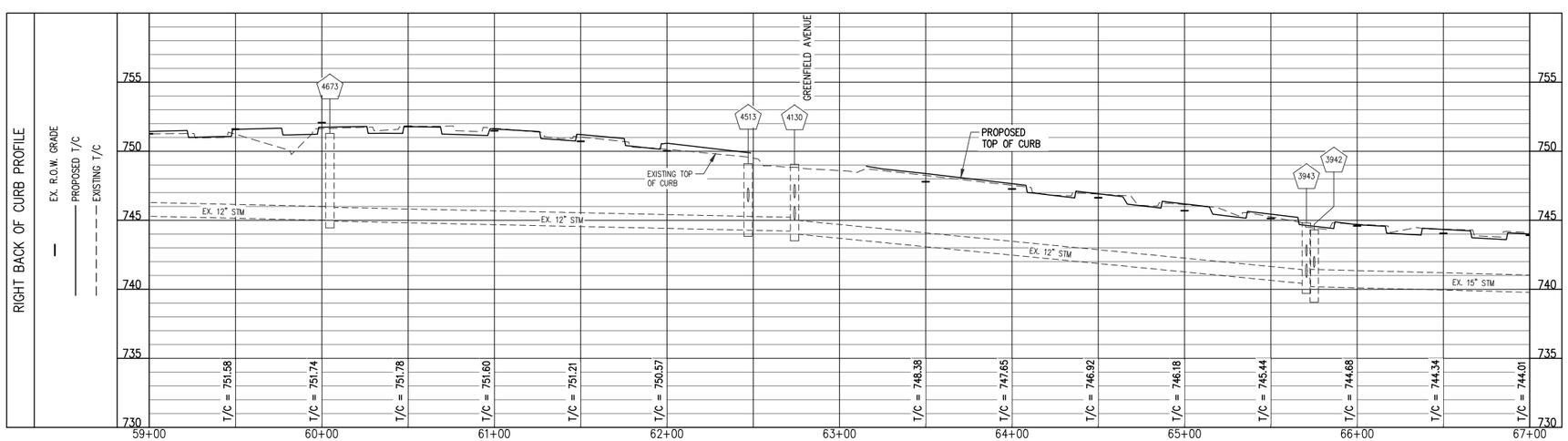


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HOR: 0 40 ft 80 ft
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**PLAN SUBMITTALS AND CHANGES**

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REV:

SHT# 35 OF 100

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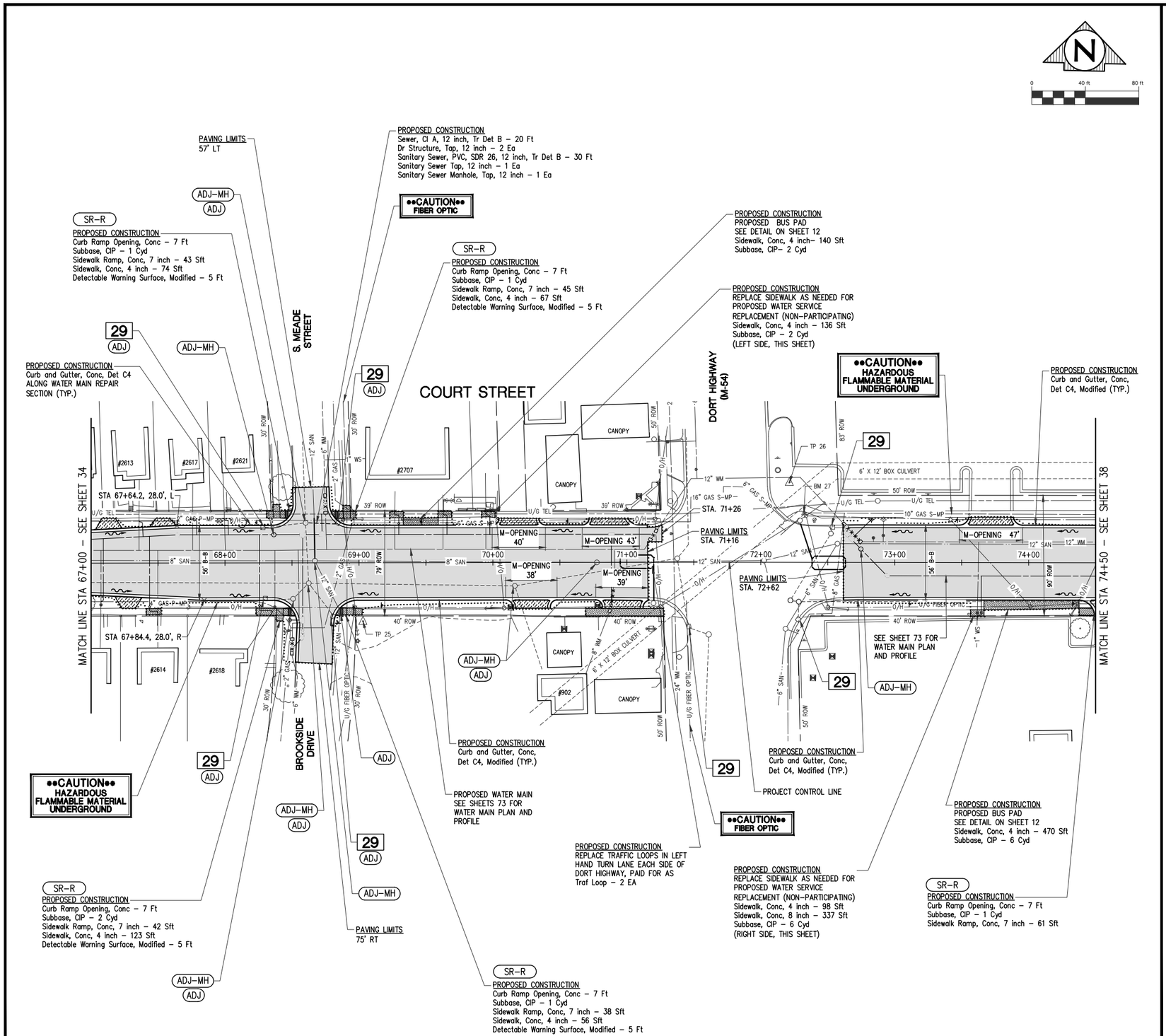


## SHEET QUANTITIES
## CATEGORY 1 - PARTICIPATING

| DESCRIPTION | QUANTITY | UNITS |
|---|---|---|
| Erosion Control, Inlet Protection, Fabric Drop | 5 | Ea |
| Subbase, CIP | 24 | Cyd |
| Aggregate Base, 8 inch, Modified | 90 | Syd |
| Manhole Cover, Adj | 7 | Ea |
| Structure Cover, Adj, Case 1 | 10 | Ea |
| Underdrain, Subbase, 6 inch | 600 | Ft |
| HMA, 4E1 | 236 | Ton |
| HMA, 5E1 | 236 | Ton |
| Lane Tie, Epoxy Anchored | 197 | Ea |
| Driveway, Nonreinf Conc, 6 inch | 39 | Syd |
| Driveway, Nonreinf Conc, 8 inch | 67 | Syd |
| Curb and Gutter, Conc, Det C4 | 425 | Ft |
| Driveway Opening, Conc, Det M | 160 | Ft |
| Curb and Gutter, Conc, Det C4, Modified | 447 | Ft |
| Curb Ramp Opening, Conc | 35 | Ft |
| Sidewalk Ramp, Conc, 7 inch | 168 | Sft |
| Sidewalk, Conc, 4 inch | 460 | Sft |
| Detectable Warning Surface, Modified | 20 | Ft |
| Traf Loop | 1 | Ea |

## SHEET QUANTITIES
## CATEGORY 5 - PARTICIPATING

| DESCRIPTION | QUANTITY | UNITS |
|---|---|---|
| Erosion Control, Inlet Protection, Fabric Drop | 2 | Ea |
| Subbase, CIP | 7 | Cyd |
| Aggregate Base, 8 inch, Modified | 60 | Syd |
| Manhole Cover, Adj | 1 | Ea |
| Underdrain, Subbase, 6 inch | 200 | Ft |
| HMA, 4E1 | 104 | Ton |
| HMA, 5E1 | 104 | Ton |
| Lane Tie, Epoxy Anchored | 186 | Ea |
| Driveway, Nonreinf Conc, 8 inch | 21 | Syd |
| Curb and Gutter, Conc, Det C4 | 35 | Ft |
| Driveway Opening, Conc, Det M | 47 | Ft |
| Curb and Gutter, Conc, Det C4, Modified | 283 | Ft |
| Sidewalk Ramp, Conc, 7 inch | 61 | Sft |
| Sidewalk, Conc, 4 inch | 470 | Sft |
| Traf Loop | 1 | Ea |

## SHEET QUANTITIES
## CATEGORY 3 - NON-PARTICIPATING

| DESCRIPTION | QUANTITY | UNITS |
|---|---|---|
| Subbase, CIP | 8 | Cyd |
| Aggregate Base, 8 inch, Modified | 1020 | Syd |
| Sewer, Cl A, 12 inch, Tr Det B | 20 | Ft |
| Dr Structure, Tap, 12 inch | 2 | Ea |
| HMA, 3C | 340 | Ton |
| Sidewalk, Conc, 4 inch | 234 | Sft |
| Sidewalk, Conc, 8 inch | 337 | Sft |
| Sanitary Sewer, PVC, SDR 26, 12 inch, Tr Det B | 30 | Ft |
| Sanitary Sewer Tap, 12 inch | 1 | Ea |
| Sanitary Sewer Manhole, Tap, 12 inch | 1 | Ea |

## DRIVEWAY REPLACEMENT SCHEDULE

| C/L DRIVEWAY STATION | PROPOSED DRIVEWAY TYPE | WIDTH AT ROAD (FT) | WIDTH AT BACK OF DRIVEWAY (FT) | LENGTH OF DRIVEWAY REPLACEMENT FROM B/C (FT) | EXISTING SLOPE (%) | PROPOSED SLOPE (%) | Subbase, CIP (CYD) | Pavt, Rem, Modified (SYD) | Driveway, Nonreinf Conc, 6 inch (SYD) | Driveway, Nonreinf Conc, 8 inch (SYD) |
|---|---|---|---|---|---|---|---|---|---|---|
| 67+13 L | CONC | 20 | 10 | 8 | 0.7 | 0.9 | 2 | 12 | 14 | |
| 67+28 R | CONC | 20 | 10 | 8 | 3.4 | 3.3 | 2 | 12 | 15 | |
| 67+54 L | CONC | 20 | 10 | 6 | 7.3 | 6.4 | 1 | 11 | 10 | |
| 70+19 L | CONC | SEE PLAN | 26 | 5 | 9.8 | 15.4 | 2 | 18 | | 15 |
| 70+29 R | CONC | SEE PLAN | 24 | 6 | 9.4 | 9.5 | 2 | 20 | | 18 |
| 70+87 L | CONC | SEE PLAN | 25 | 5 | 14.9 | 19.1 | 2 | 17 | | 15 |
| 70+97 R | CONC | SEE PLAN | 27 | 6 | 11.7 | 12.7 | 3 | 21 | | 19 |
| 73+72 L | CONC | SEE PLAN | 29 | 7.5 | 8.6 | 8.5 | 3 | 20 | | 21 |

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**PLAN SUBMITTALS AND CHANGES**

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ROAD AND STORM SEWER PLAN SHEET

REV:

SHT# 36 OF 100

JOB No: 18C0137

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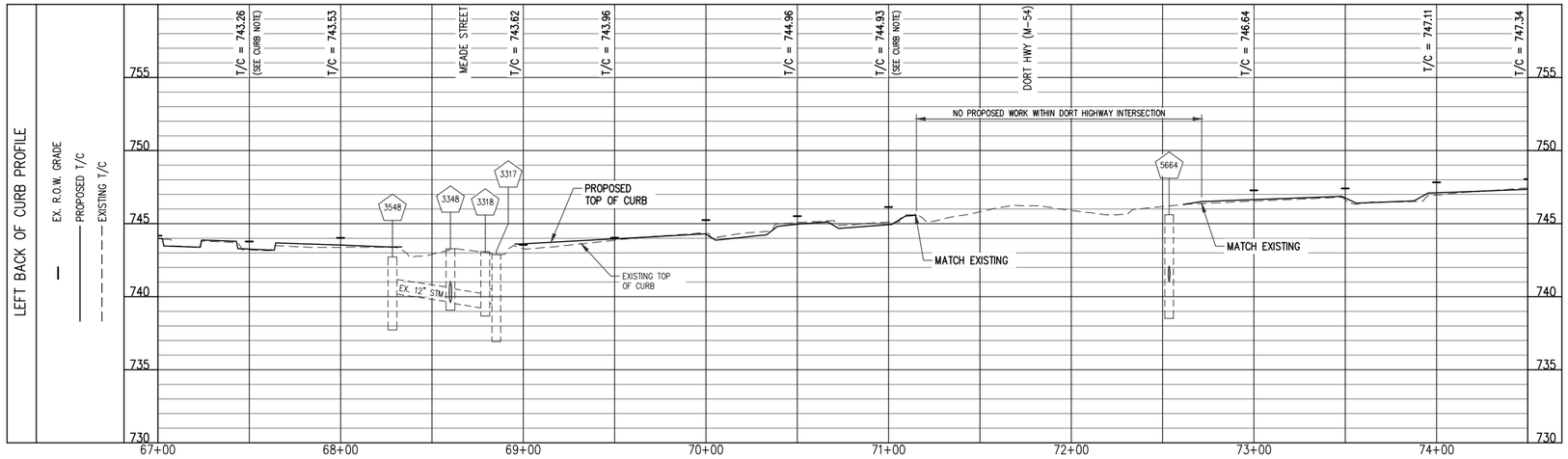


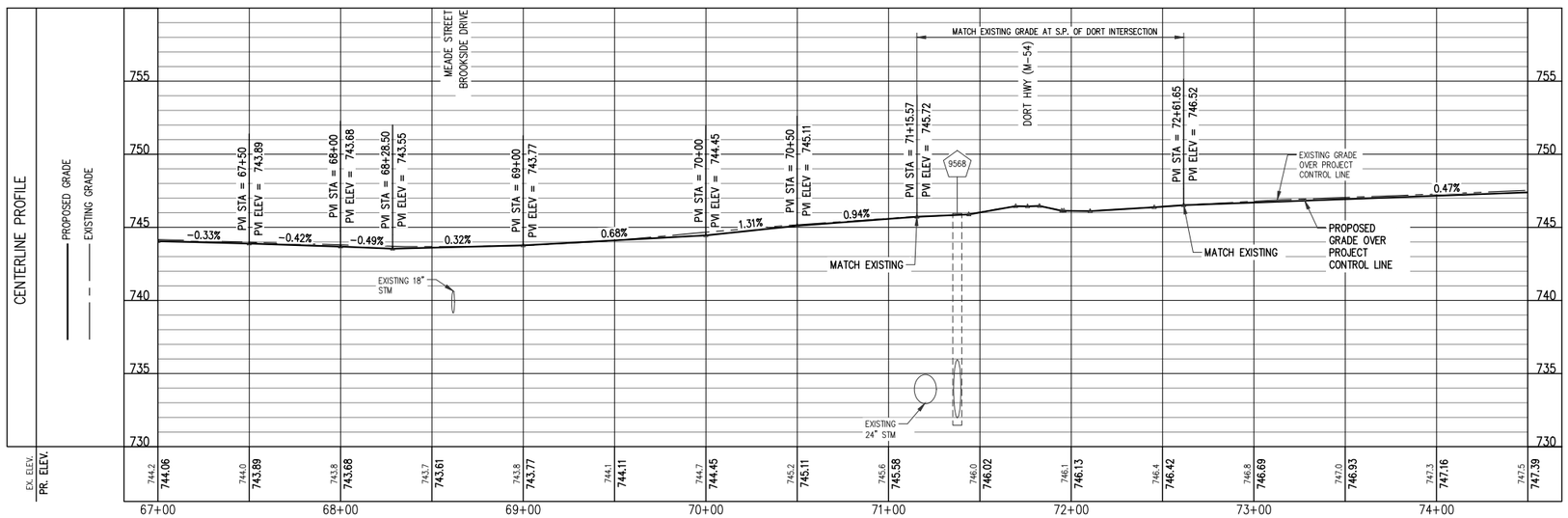


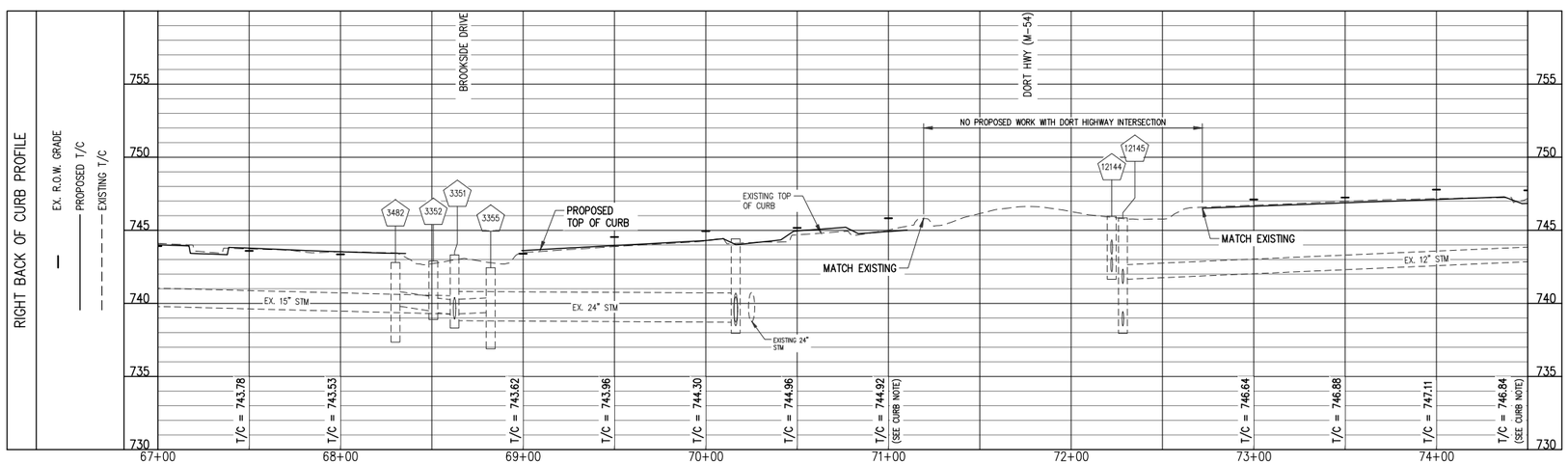


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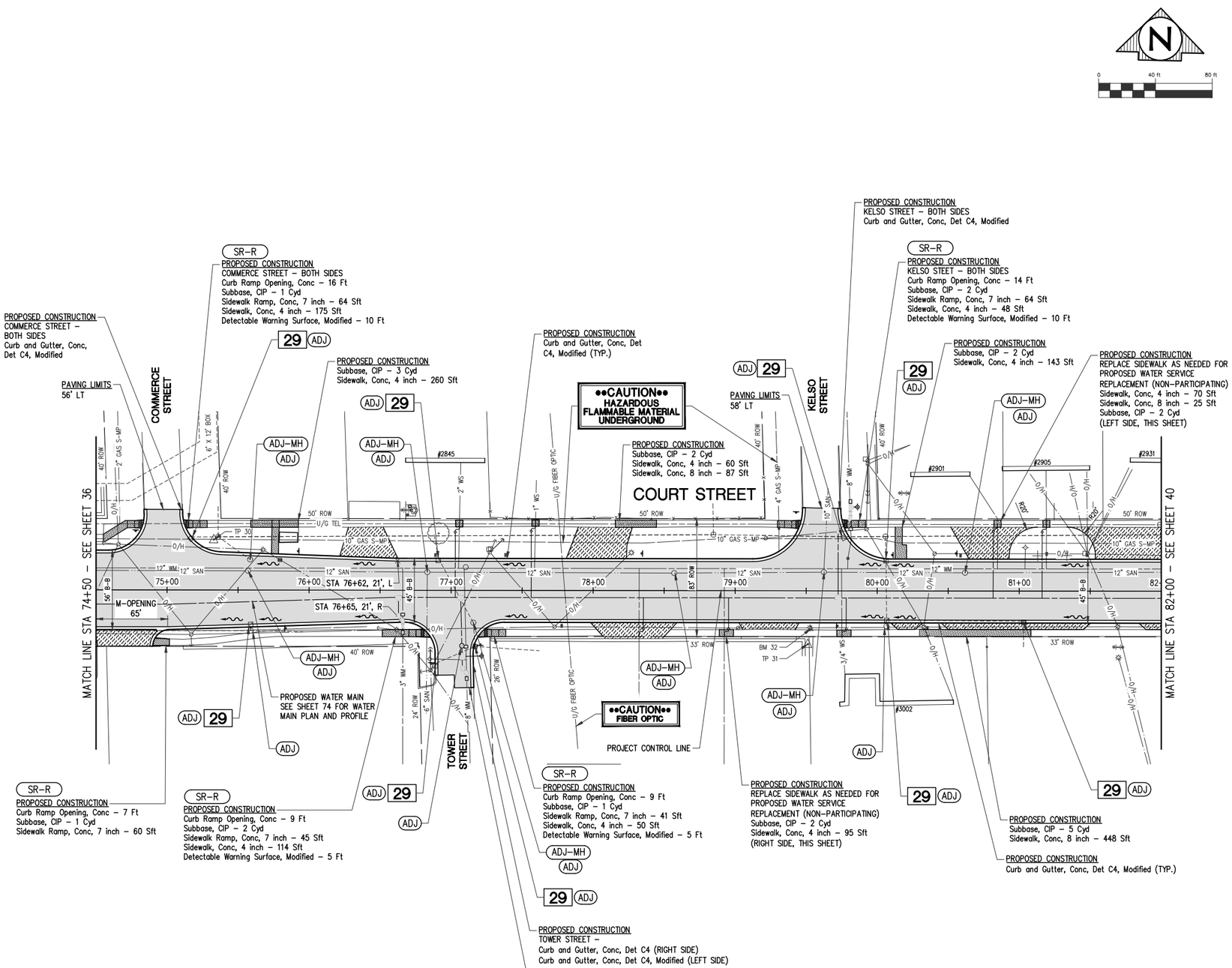


## SHEET QUANTITIES
## CATEGORY 5 - PARTICIPATING

| DESCRIPTION | QUANTITY | UNITS |
|---|---|---|
| Erosion Control, Inlet Protection, Fabric Drop | 9 | Ea |
| Subbase, CIP | 88 | Cyd |
| Aggregate Base, 8 inch, Modified | 865 | Syd |
| Manhole Cover, Adj | 7 | Ea |
| Structure Cover, Adj, Case 1 | 17 | Ea |
| Structure Cover, Adj, Case 2 | 2 | Ea |
| Underdrain, Subbase, 6 inch | 1400 | Ft |
| HMA, 4E1 | 365 | Ton |
| HMA, 5E1 | 365 | Ton |
| Lane Tie, Epoxy Anchored | 755 | Ea |
| Driveway, Nonreinf Conc, 8 inch | 592 | Syd |
| Curb and Gutter, Conc, Det C4 | 110 | Ft |
| Driveway Opening, Conc, Det M | 65 | Ft |
| Curb and Gutter, Conc, Det C4, Modified | 1450 | Ft |
| Curb Ramp Opening, Conc | 55 | Ft |
| Sidewalk Ramp, Conc, 7 inch | 274 | Sft |
| Sidewalk, Conc, 4 inch | 850 | Sft |
| Detectable Warning Surface, Modified | 30 | Ft |
| Sidewalk, Conc, 8 inch | 535 | Sft |
| Post, Mailbox | 7 | Ea |

## SHEET QUANTITIES
## CATEGORY 3 - NON-PARTICIPATING

| DESCRIPTION | QUANTITY | UNITS |
|---|---|---|
| Subbase, CIP | 4 | Cyd |
| Aggregate Base, 8 inch, Modified | 1060 | Syd |
| HMA, 3C | 385 | Ton |
| Sidewalk, Conc, 4 inch | 165 | Sft |
| Sidewalk, Conc, 8 inch | 25 | Sft |

## DRIVEWAY REPLACEMENT SCHEDULE

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|---|---|---|---|---|---|---|---|---|---|
| 74+70 R | CONC | 64 | 37 | 12 | 8.6 | 8.1 | 6 | | 52 |
| 76+42 L | CONC | 41 | 24 | 21 | 1.8 | 2.3 | 9 | 78 | 77 |
| 78+02 L | CONC | 42 | 38 | 22 | 2.6 | 2.4 | 11 | 101 | 97 |
| 78+28 R | CONC | 61 | 40 | 11 | 5.2 | 6 | 8 | 55 | 64 |
| 79+24 R | CONC | 42 | 37 | 5 | 9.9 | 12.6 | 3 | 86 | 21 |
| 80+21 R | CONC | 23 | 12 | 5 | 11.6 | 10.5 | 1 | 8 | 9 |
| 80+79 L | CONC | 28 | 61 | 22 | 1.1 | 1.1 | 11 | 97 | 97 |
| 80+89 R | CONC | 105 | 95 | 3 | 12.3 | 10.4 | 6 | 86 | 50 |
| 81+99 L | CONC | 91 | 126 | 23 | 1.2 | 1.1 | 14 | 118 | 125 |

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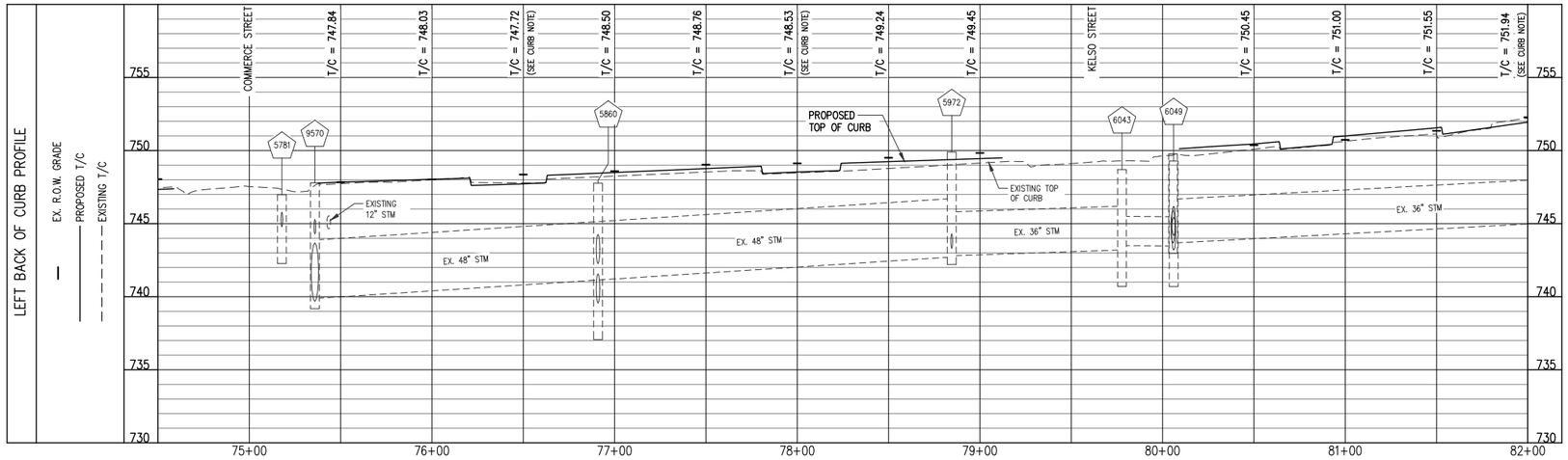


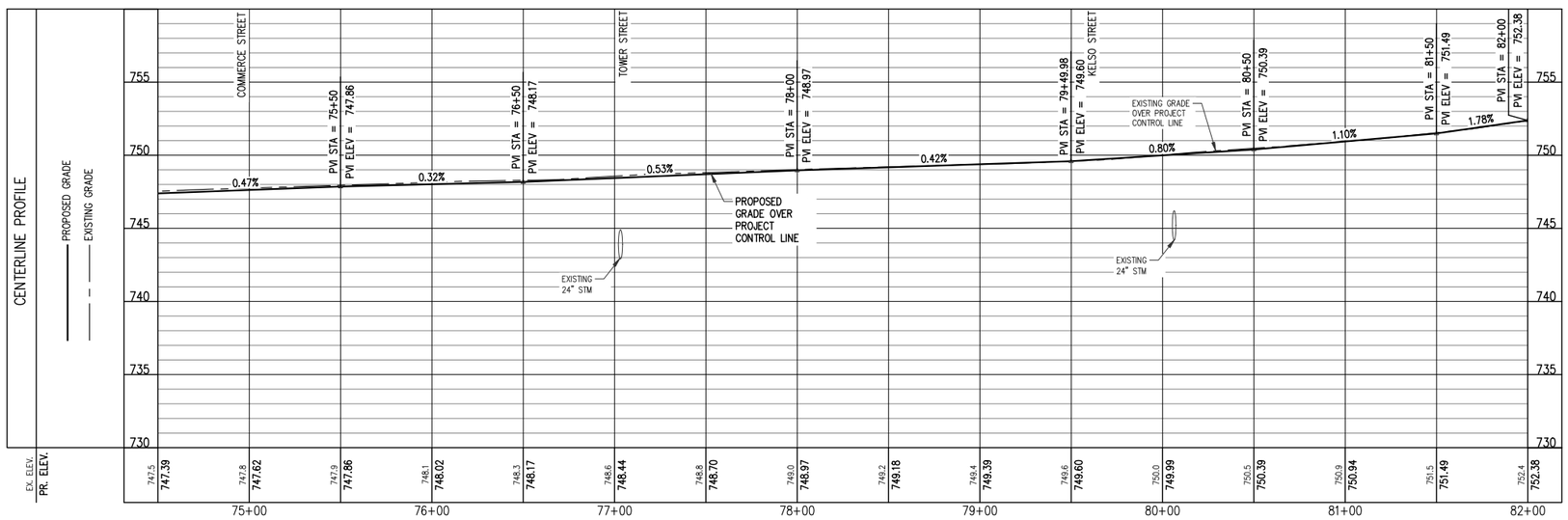


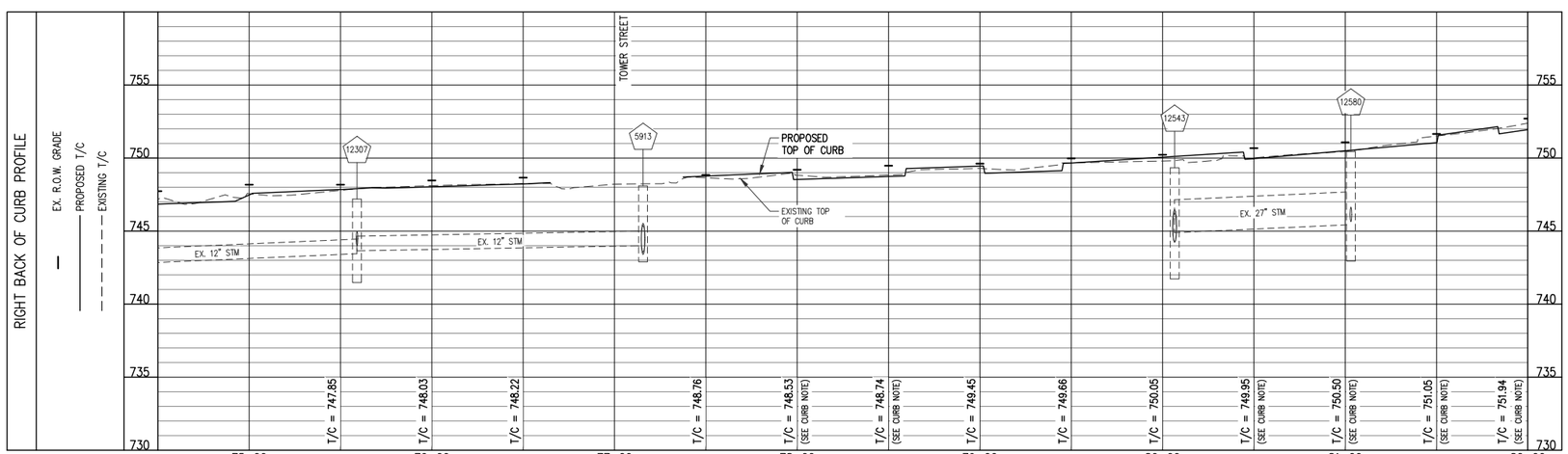


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|---|---|
| BIDDING DOCUMENTS | |
| DATE | DESCRIPTION |
| 6/5/2019 | ISSUED FOR BIDS |

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


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PREPARED FOR
# CITY OF FLINT
# COURT STREET REHABILITATION
STA. 74+50 TO STA. 82+00
ROAD AND STORM SEWER PROFILE SHEET

REV:

SHT# 39 OF 100
JOB No: 18C0137

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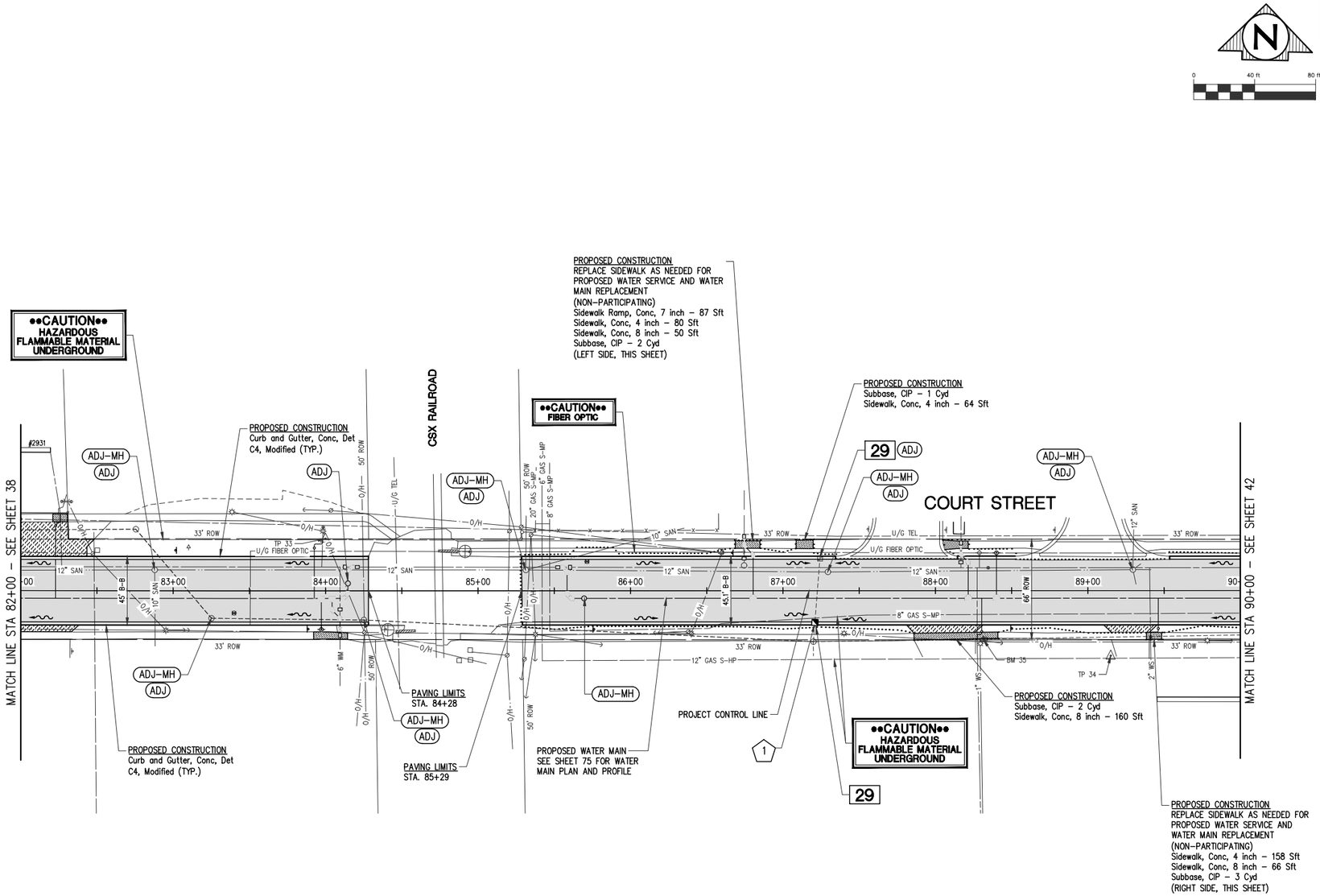


## SHEET QUANTITIES
## CATEGORY 5 - PARTICIPATING

| DESCRIPTION | QUANTITY | UNITS |
|---|---|---|
| Erosion Control, Inlet Protection, Fabric Drop | 2 | Ea |
| Subbase, CIP | 11 | Cyd |
| Aggregate Base, 8 inch, Modified | 735 | Syd |
| Sewer Tap, 30 inch | 2 | Ea |
| Dr Structure, 60 inch dia | 1 | Ea |
| Manhole Cover, Adj | 7 | Ea |
| Structure Cover, Adj, Case 1 | 8 | Ea |
| Structure Cover, Special | 1 | Ea |
| Underdrain, Subbase, 6 inch | 200 | Ft |
| HMA, 4E1 | 290 | Ton |
| HMA, 5E1 | 290 | Ton |
| Lane Tie, Epoxy Anchored | 610 | Ea |
| Driveway, Nonreinf Conc, 8 inch | 68 | Syd |
| Curb and Gutter, Conc, Det C4, Modified | 1220 | Ft |
| Sidewalk, Conc, 4 inch | 64 | Sft |
| Sidewalk, Conc, 8 inch | 160 | Sft |

## SHEET QUANTITIES
## CATEGORY 3 - NON-PARTICIPATING

| DESCRIPTION | QUANTITY | UNITS |
|---|---|---|
| Subbase, CIP | 5 | Cyd |
| Aggregate Base, 8 inch, Modified | 980 | Syd |
| HMA, 3C | 360 | Ton |
| Sidewalk Ramp, Conc, 7 inch | 87 | Sft |
| Sidewalk, Conc, 4 inch | 238 | Sft |
| Sidewalk, Conc, 8 inch | 116 | Sft |

## DRIVEWAY REPLACEMENT SCHEDULE

| C/L DRIVEWAY STATION | PROPOSED DRIVEWAY TYPE | WIDTH AT ROAD (FT) | WIDTH AT BACK OF DRIVEWAY (FT) | LENGTH OF DRIVEWAY REPLACEMENT FROM B/C (FT) | EXISTING SLOPE (%) | PROPOSED SLOPE (%) | Subbase, CIP (CYD) | Pavt, Rem, Modified (SYD) | Driveway, Nonreinf Conc, 8 inch (SYD) |
|---|---|---|---|---|---|---|---|---|---|
| 82+11 R | CONC | 54 | 44 | 5 | 1.2 | 1.1 | 3 | 122 | 25 |
| 88+06 R | CONC | 50 | 40 | 5 | 7.6 | 8.6 | 3 | 30 | 26 |
| 89+28 R | CONC | 35 | 25 | 5 | 8.7 | 7.5 | 2 | 24 | 17 |

## PROPOSED STORM SEWER STRUCTURE TABLE

| STRUCT NO. | DIA. | COVER TYPE | RIM ELEVATION | INVERT | STATION | OFFSET |
|---|---|---|---|---|---|---|
| 1 | 60" | CF–3 | T/C=757.94 | 30" 752.86 S (EX)<br>30" 752.86 N (EX) | 87+20.8 | 21.9 R |

NOTE: EXISTING STRUCTURE PREVIOUSLY COVERED EXPECTED IN LOCATION OF PROPOSED STRUCTURE. CONTRACTOR TO EXPOSE AND VERIFY CONNECTING PIPE SIZES AND ELEVATIONS..

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

## PLAN SUBMITTALS AND CHANGES

BIDDING DOCUMENTS

| DATE | DESCRIPTION |
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PLAN DATE: JUNE 2019
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SCALE: 1" = 40'


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STA. 82+00 TO STA. 90+00
ROAD AND STORM SEWER PLAN SHEET

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REV:

SHT# 40 OF 100

JOB No: 18C0137

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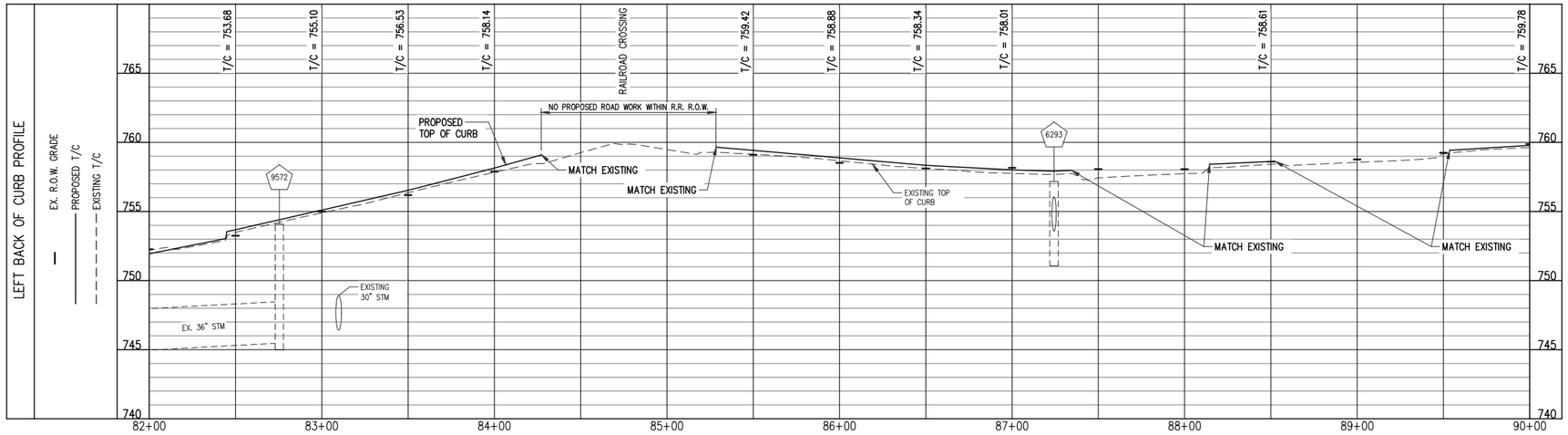


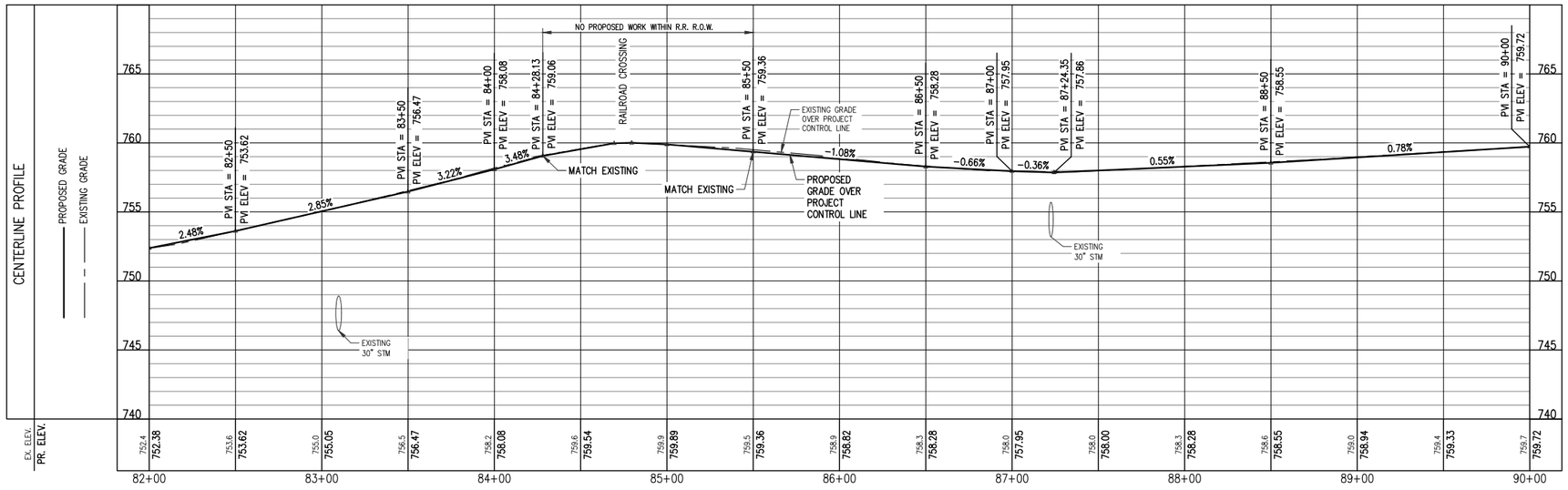


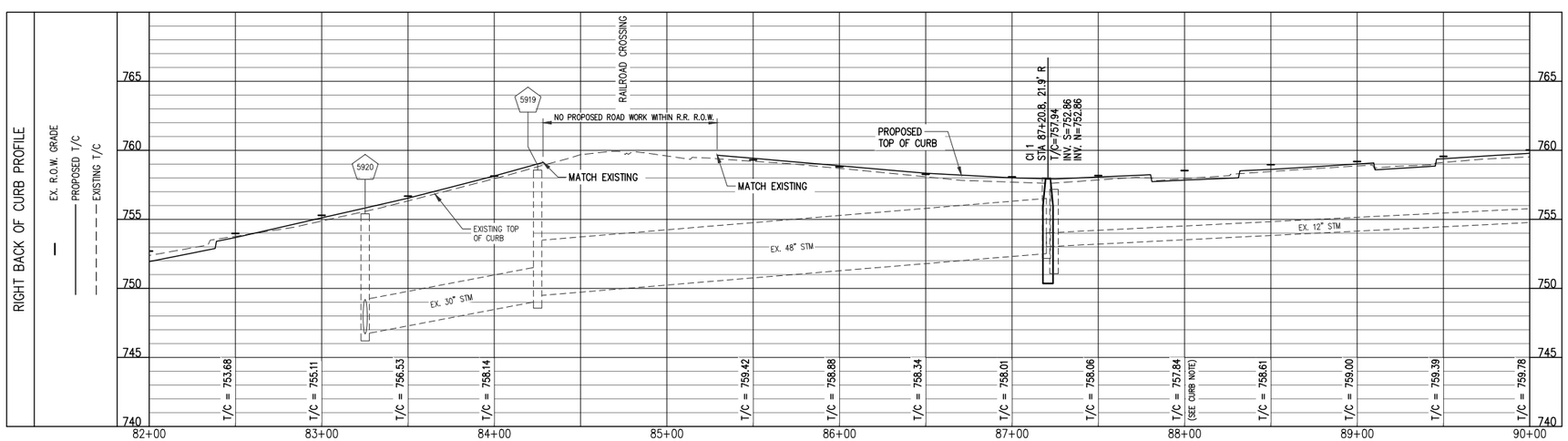


## CURB NOTE

T/C CURB ELEVATIONS IN DRIVE OPENINGS ARE TO TOP OF L OPENING (KNOCKED DOWN CURB). ADD 0.50' TO GET FULL HEIGHT CURB FOR STRINGING/STAKING PURPOSES.

Know what's **below.**
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HOR: 0 40 ft 80 ft
VERT: 0 5 ft 10 ft

**PLAN SUBMITTALS AND CHANGES**

BIDDING DOCUMENTS

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ROAD AND STORM SEWER PROFILE SHEET

REV:

SHT# 41 OF 100

JOB No: 18C0137

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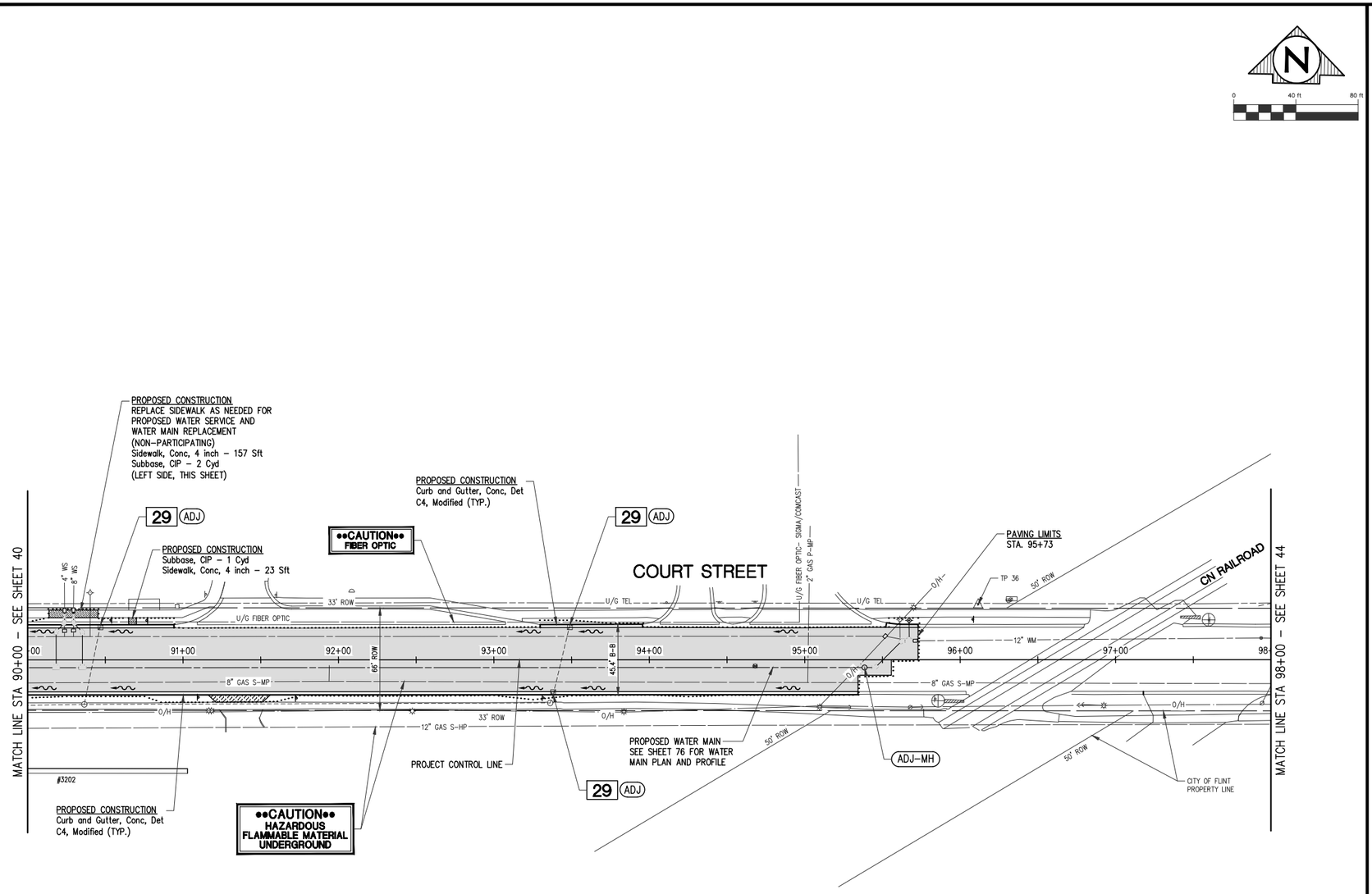


## SHEET QUANTITIES
## CATEGORY 5 - PARTICIPATING

| DESCRIPTION | QUANTITY | UNITS |
|---|---|---|
| Erosion Control, Inlet Protection, Fabric Drop | 4 | Ea |
| Subbase, CIP | 19 | Cyd |
| Aggregate Base, 8 inch, Modified | 610 | Syd |
| Manhole Cover, Adj | 1 | Ea |
| Structure Cover, Adj, Case 1 | 3 | Ea |
| Underdrain, Subbase, 6 inch | 600 | Ft |
| HMA, 4E1 | 235 | Ton |
| HMA, 5E1 | 235 | Ton |
| Lane Tie, Epoxy Anchored | 360 | Ea |
| Driveway, Nonreinf Conc, 8 inch | 19 | Syd |
| Curb and Gutter, Conc, Det C4, Modified | 827 | Ft |
| Sidewalk, Conc, 4 inch | 23 | Sft |

## SHEET QUANTITIES
## CATEGORY 3 - NON-PARTICIPATING

| DESCRIPTION | QUANTITY | UNITS |
|---|---|---|
| Subbase, CIP | 2 | Cyd |
| Aggregate Base, 8 inch, Modified | 780 | Syd |
| HMA, 3C | 285 | Ton |
| Sidewalk, Conc, 4 inch | 157 | Sft |

## DRIVEWAY REPLACEMENT SCHEDULE

| C/L DRIVEWAY STATION | PROPOSED DRIVEWAY TYPE | WIDTH AT ROAD (FT) | WIDTH AT BACK OF DRIVEWAY (FT) | LENGTH OF DRIVEWAY REPLACEMENT FROM B/C (FT) | EXISTING SLOPE (%) | PROPOSED SLOPE (%) | Subbase, CIP (CYD) | Pavt, Rem, Modified (SYD) | Driveway, Nonreinf Conc, 8 inch (SYD) |
|---|---|---|---|---|---|---|---|---|---|
| 91+36 R | CONC | 40 | 30 | 5 | 3.8 | 4.6 | 3 | 28 | 19 |

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## PLAN SUBMITTALS AND CHANGES

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|---|---|
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| 6/5/2019 | ISSUED FOR BIDS |

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PROJECT MGR: JMB
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STA. 90+00 TO STA. 98+00
ROAD AND STORM SEWER PLAN SHEET

REV:


JOB No: 18C0137

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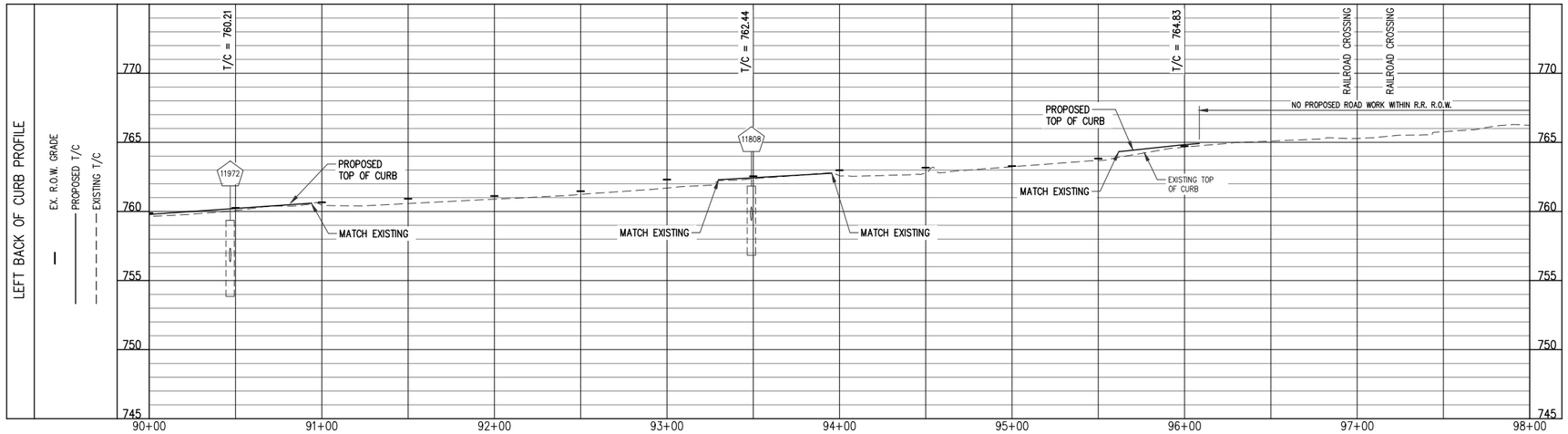


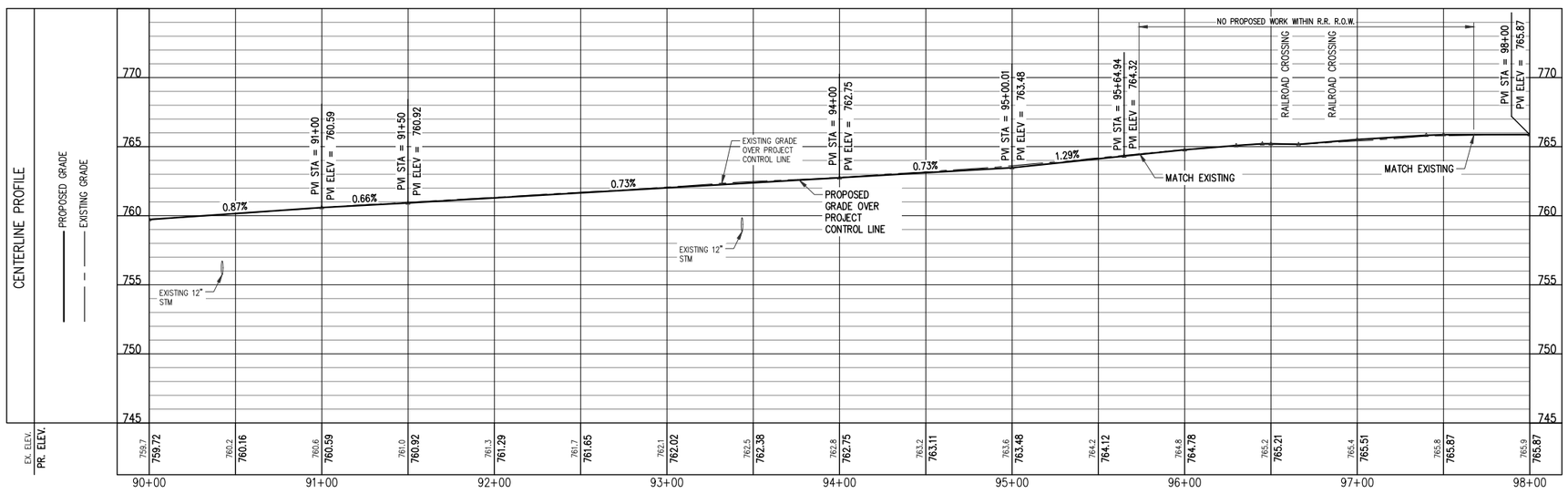


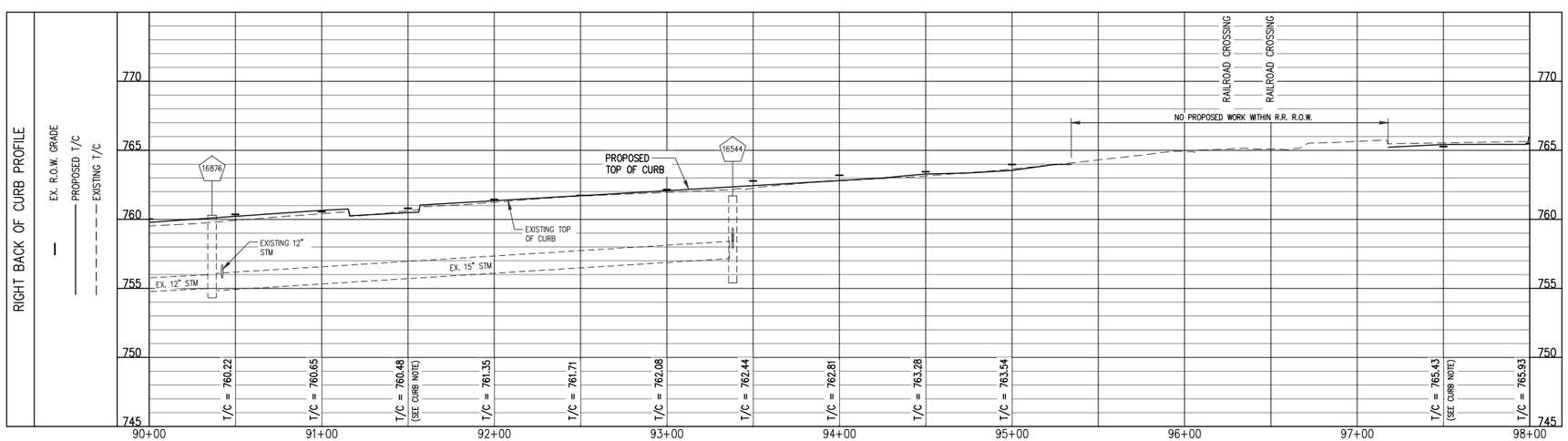


## CURB NOTE

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HOR: 0 40 ft 80 ft
VERT: 0 5 ft 10 ft

**PLAN SUBMITTALS AND CHANGES**

| BIDDING DOCUMENTS | |
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JOB No: 18C0137

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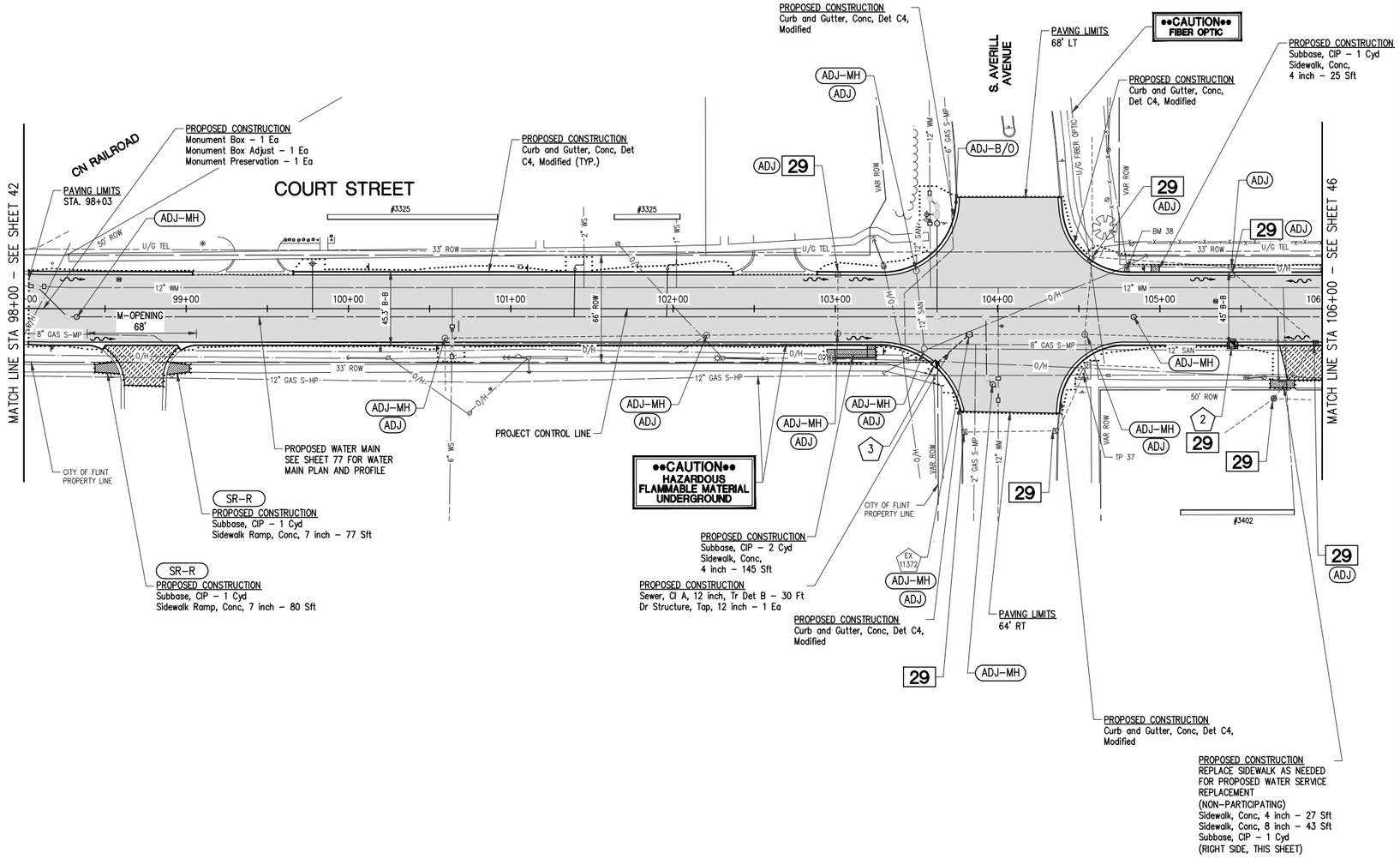
NOTE:

PROPOSED SIGNAL AND SIDEWALK RAMP WORK AT THE INTERSECTION OF AVERILL AVENUE AND COURT STREET TO BE COMPLETED UNDER SEPERATE CONTRACT. M.D.O.T. JOB NUMBER 130885. CURB RAMP OPENINGS SHALL BE PLACED IN PROPOSED CURB AT LOCATIONS SHOWN ON INTERSECTION GRADING SHEET 61. EXISTING SIDEWALK RAMPS SHALL BE REMOVED TO FACILITATE INTERSECTION RADIUS CURB CONSTRUCTION. SIDEWALK RAMPS SHALL BE MAINTAINED WITH GRAVEL THROUGHOUT CONSTRUCTION AND UPON COMPLETION.




## SHEET QUANTITIES
## CATEGORY 5 - PARTICIPATING

| DESCRIPTION | QUANTITY | UNITS |
|---|---|---|
| Erosion Control, Inlet Protection, Fabric Drop | 8 | Ea |
| Subbase, CIP | 24 | Cyd |
| Aggregate Base, 8 inch, Modified | 810 | Syd |
| Sewer, Cl A, 12 inch, Tr Det B | 30 | Ft |
| Dr Structure, Tap, 12 inch | 1 | Ea |
| Dr Structure, 72 inch dia | 1 | Ea |
| Dr Structure, 48 inch dia | 1 | Ea |
| Manhole Cover, Adj | 10 | Ea |
| Structure Cover, Adj, Case 1 | 12 | Ea |
| Structure Cover, Adj, Case 2 | 1 | Ea |
| Structure Cover, Special | 1 | Ea |
| Underdrain, Subbase, 6 inch | 1000 | Ft |
| HMA, 4E1 | 405 | Ton |
| HMA, 5E1 | 405 | Ton |
| Lane Tie, Epoxy Anchored | 727 | Ea |
| Driveway, Nonreinf Conc, 8 inch | 165 | Syd |
| Curb and Gutter, Conc, Det C4 | 50 | Ft |
| Driveway Opening, Conc, Det M | 68 | Ft |
| Curb and Gutter, Conc, Det C4, Modified | 1385 | Ft |
| Sidewalk Ramp, Conc, 7 inch | 157 | Sft |
| Sidewalk, Conc, 4 inch | 170 | Sft |
| Post, Mailbox | 1 | Ea |
| Monument Box | 1 | Ea |
| Monument Box Adjust | 1 | Ea |
| Monument Box Preservation | 1 | Ea |

## SHEET QUANTITIES
## CATEGORY 3 - NON-PARTICIPATING

| DESCRIPTION | QUANTITY | UNITS |
|---|---|---|
| Subbase, CIP | 1 | Cyd |
| Aggregate Base, 8 inch, Modified | 1115 | Syd |
| HMA, 3C | 405 | Ton |
| Sidewalk, Conc, 4 inch | 27 | Sft |
| Sidewalk, Conc, 8 inch | 43 | Sft |

## DRIVEWAY REPLACEMENT SCHEDULE

| C/L DRIVEWAY STATION | PROPOSED DRIVEWAY TYPE | WIDTH AT ROAD (FT) | WIDTH AT BACK OF DRIVEWAY (FT) | LENGTH OF DRIVEWAY REPLACEMENT FROM B/C (FT) | EXISTING SLOPE (%) | PROPOSED SLOPE (%) | Subbase, CIP (CYD) | Pavt, Rem, Modified (SYD) | Driveway, Nonreinf Conc, 8 inch (SYD) |
|---|---|---|---|---|---|---|---|---|---|
| 98+72 R | CONC | 67 | 24 | 25 | –1.9 | –1.9 | 10 | 78 | 85 |
| 105+93 R | CONC | 39 | 29 | 21 | 7.1 | 6.5 | 9 | 51 | 80 |

## PROPOSED STORM SEWER STRUCTURE TABLE

| STRUCT NO. | DIA. | COVER TYPE | RIM ELEVATION | INVERT | STATION | OFFSET |
|---|---|---|---|---|---|---|
| 2 | 72" | CF–3 | T/C=755.98 | 48" 747.96 E (EX)<br>48" 747.95 W (EX) | 105+44.6 | 22.5 R |
| 3 | 48" | CF–3 | T/C=757.07 | 12" 754.80 NE (PR) | 103+61.3 | 34.6 R |
| EX 11372 | UNKN | CF–2 | T/C=756.91 | 12" 754.50 SW (PR)<br>24" 752.37 E (EX)<br>24" 752.47 W (EX) | 103+82.6 | 15.9 R |

NOTE: EXISTING STRUCTURE PREVIOUSLY COVERED EXPECTED IN LOCATION OF PROPOSED STRUCTURE NUMBER 2. CONTRACTOR TO EXPOSE AND VERIFY CONNECTING PIPE SIZES AND ELEVATIONS. SEE SHEET 19 FOR DRAINAGE STRUCTURE REMOVAL QUANTITY.

Know what's **below.**
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## PLAN SUBMITTALS AND CHANGES

BIDDING DOCUMENTS

| DATE | DESCRIPTION |
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| 6/5/2019 | ISSUED FOR BIDS |

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


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ROAD AND STORM SEWER PLAN SHEET

REV:

SHT# 44 OF 100

JOB No: 18C0137

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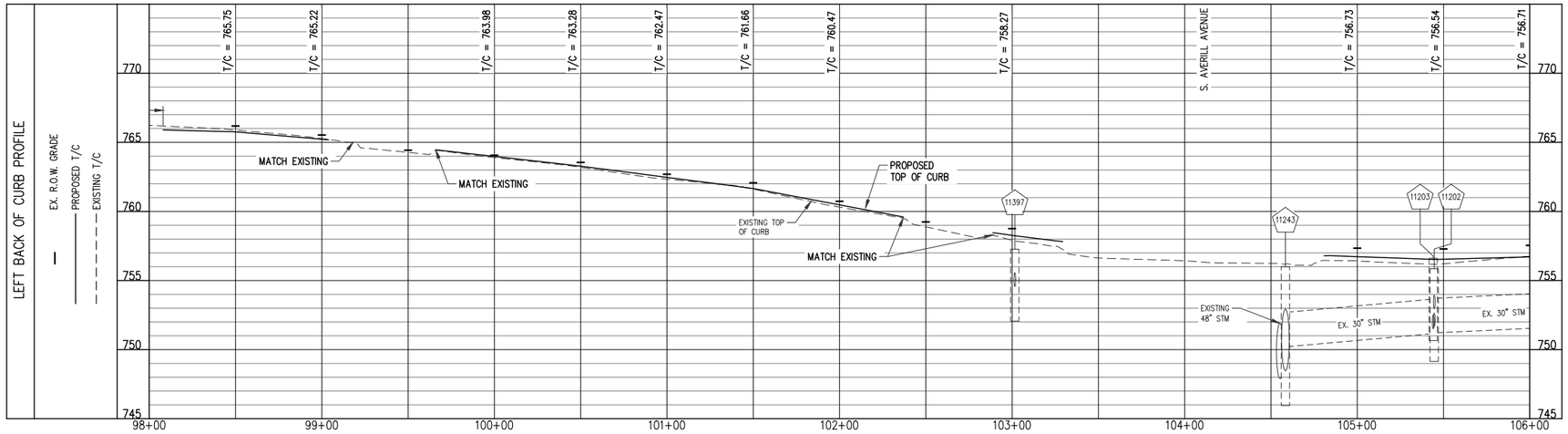


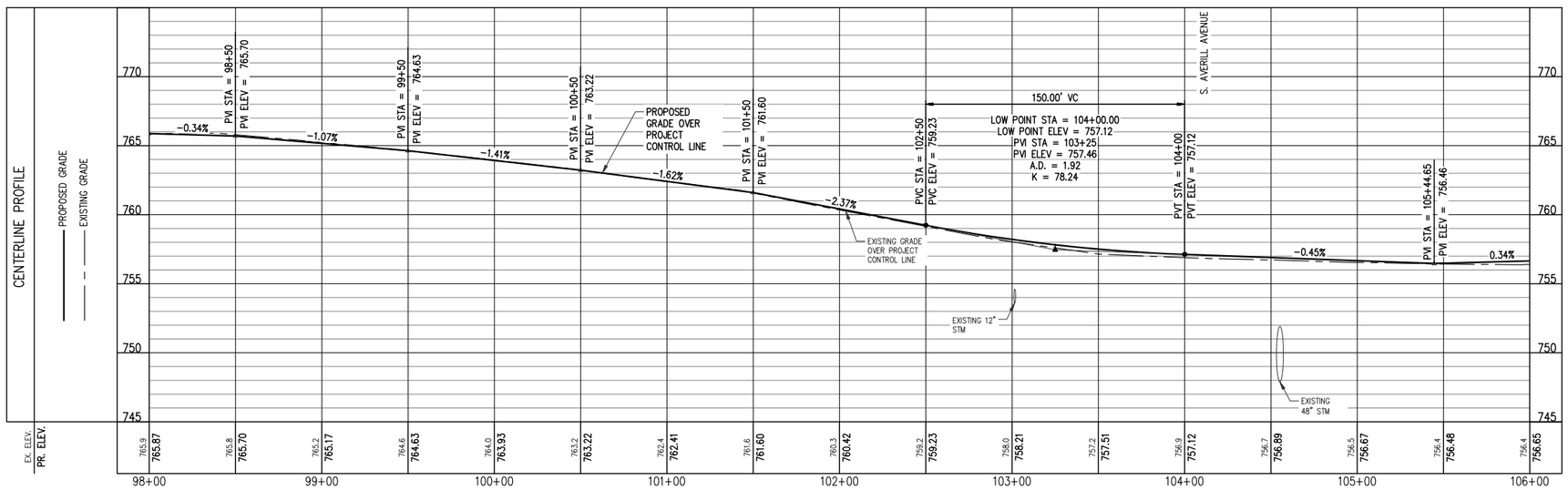


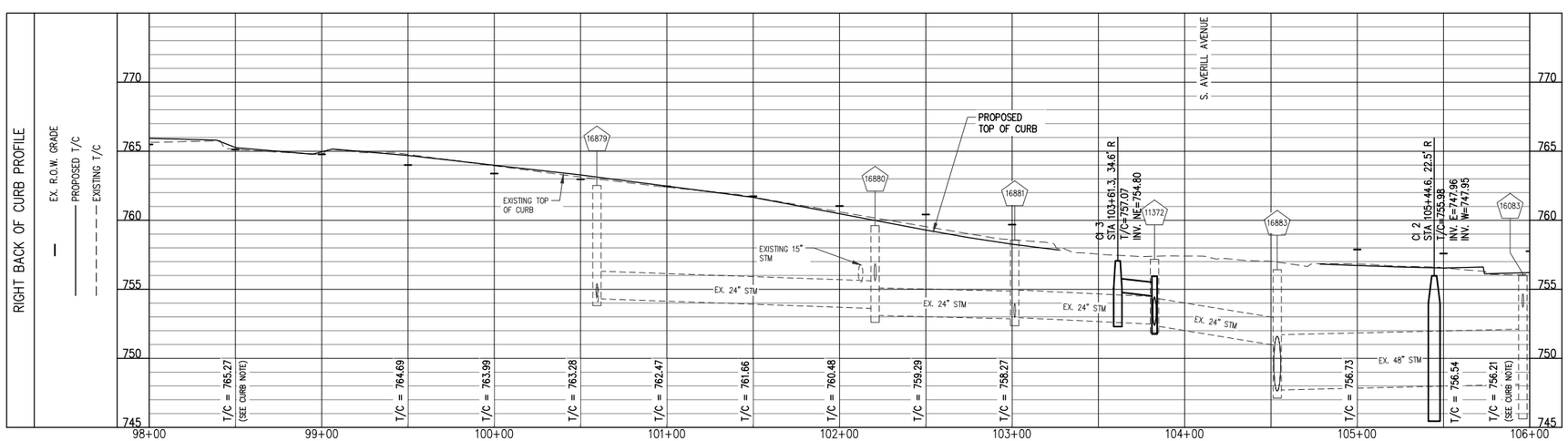


## CURB NOTE

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Know what's **below.**
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HOR: 0 40 ft 80 ft
VERT: 0 5 ft 10 ft

**PLAN SUBMITTALS AND CHANGES**

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JOB No: 18C0137

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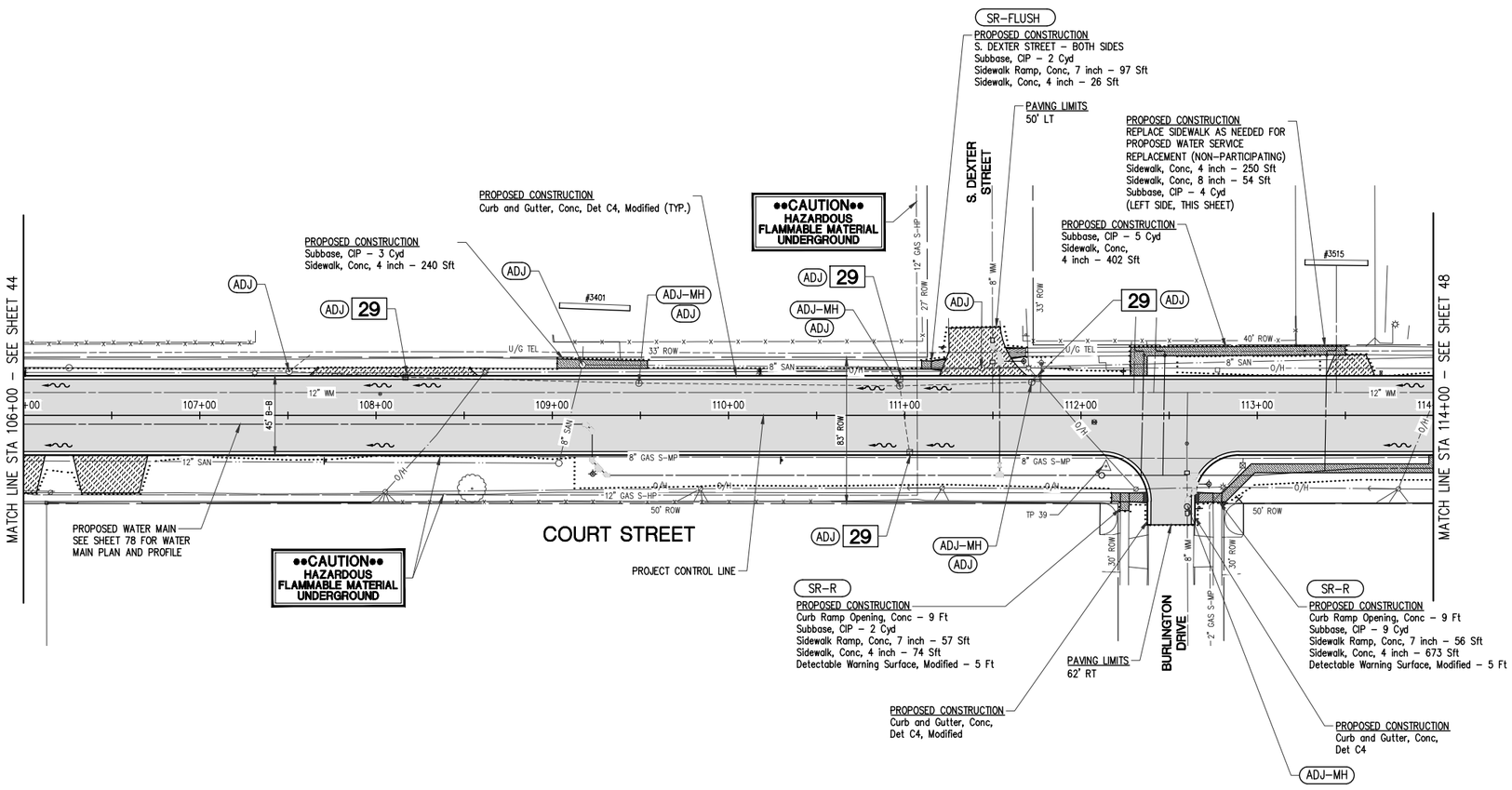


## SHEET QUANTITIES
## CATEGORY 5 - PARTICIPATING

| DESCRIPTION | QUANTITY | UNITS |
|---|---|---|
| Erosion Control, Inlet Protection, Fabric Drop | 4 | Ea |
| Subbase, CIP | 53 | Cyd |
| Aggregate Base, 8 inch, Modified | 1030 | Syd |
| Manhole Cover, Adj | 4 | Ea |
| Structure Cover, Adj, Case 1 | 9 | Ea |
| Structure Cover, Adj, Case 2 | 1 | Ea |
| Underdrain, Subbase, 6 inch | 600 | Ft |
| HMA, 4E1 | 345 | Ton |
| HMA, 5E1 | 345 | Ton |
| Lane Tie, Epoxy Anchored | 815 | Ea |
| Driveway, Nonreinf Conc, 8 inch | 274 | Syd |
| Curb and Gutter, Conc, Det C4 | 23 | Ft |
| Curb and Gutter, Conc, Det C4, Modified | 1600 | Ft |
| Curb Ramp Opening, Conc | 18 | Ft |
| Sidewalk Ramp, Conc, 7 inch | 210 | Sft |
| Sidewalk, Conc, 4 inch | 1415 | Sft |
| Detectable Warning Surface, Modified | 10 | Ft |
| Post, Mailbox | 1 | Ea |

## SHEET QUANTITIES
## CATEGORY 3 - NON-PARTICIPATING

| DESCRIPTION | QUANTITY | UNITS |
|---|---|---|
| Subbase, CIP | 4 | Cyd |
| Aggregate Base, 8 inch, Modified | 505 | Syd |
| HMA, 3C | 185 | Ton |
| Sidewalk, Conc, 4 inch | 250 | Sft |
| Sidewalk, Conc, 8 inch | 54 | Sft |

## DRIVEWAY REPLACEMENT SCHEDULE

| C/L DRIVEWAY STATION | PROPOSED DRIVEWAY TYPE | WIDTH AT ROAD (FT) | WIDTH AT BACK OF DRIVEWAY (FT) | LENGTH OF DRIVEWAY REPLACEMENT FROM B/C (FT) | EXISTING SLOPE (%) | PROPOSED SLOPE (%) | Subbase, CIP (CYD) | Pavt, Rem, Modified (SYD) | Driveway, Nonreinf Conc, 8 inch (SYD) |
|---|---|---|---|---|---|---|---|---|---|
| 106+49 R | CONC | 43 | 33 | 22 | 7.9 | 8.5 | 10 | 83 | 90 |
| 108+10 L | CONC | 96 | 86 | 4 | 2.5 | 4.8 | 5 | | 45 |
| 111+45 L | CONC | 50 | 30 | 27 | 4.6 | 4.2 | 13 | 107 | 109 |
| 113+53 L | CONC | 28 | 18 | 12 | 7.7 | 9.8 | 4 | 25 | 30 |

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## PLAN SUBMITTALS AND CHANGES

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STA. 106+00 TO STA. 114+00
ROAD AND STORM SEWER PLAN SHEET

REV:



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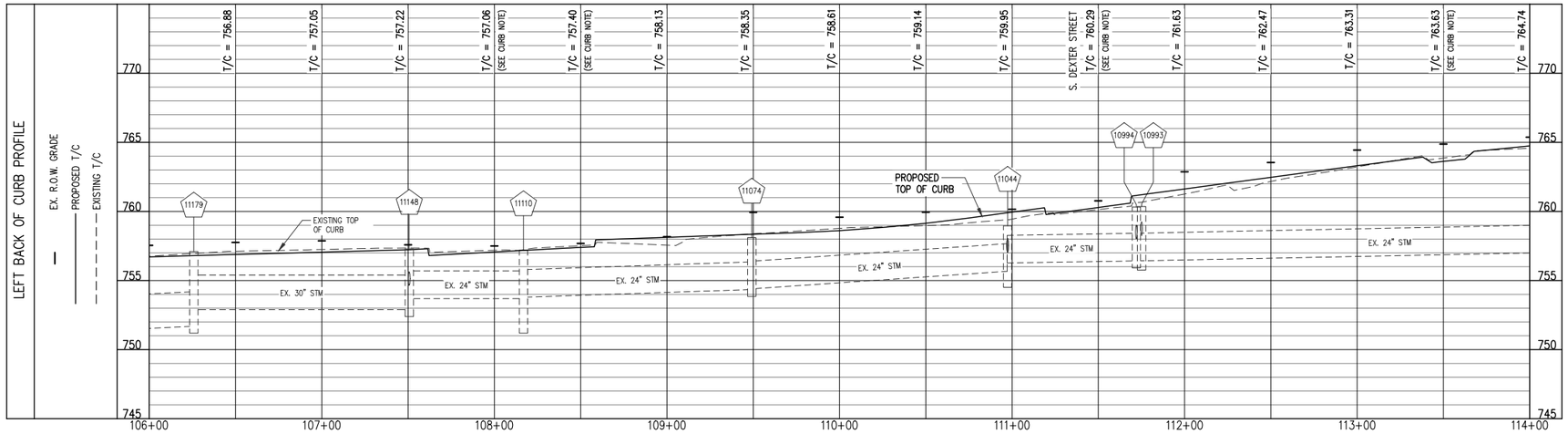


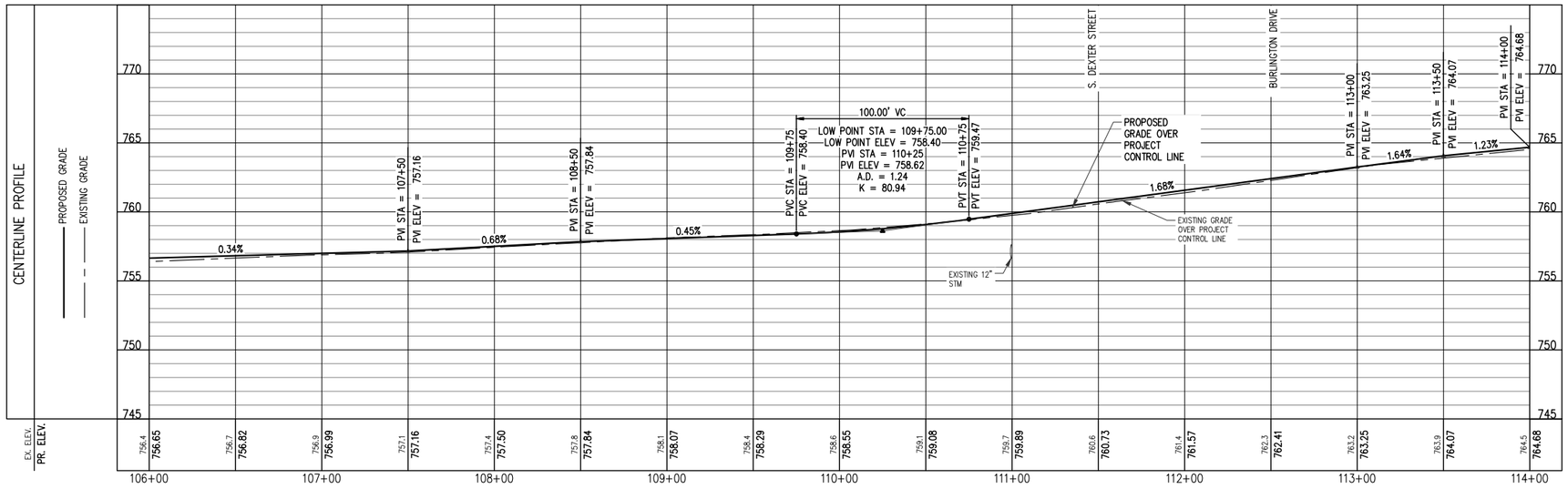


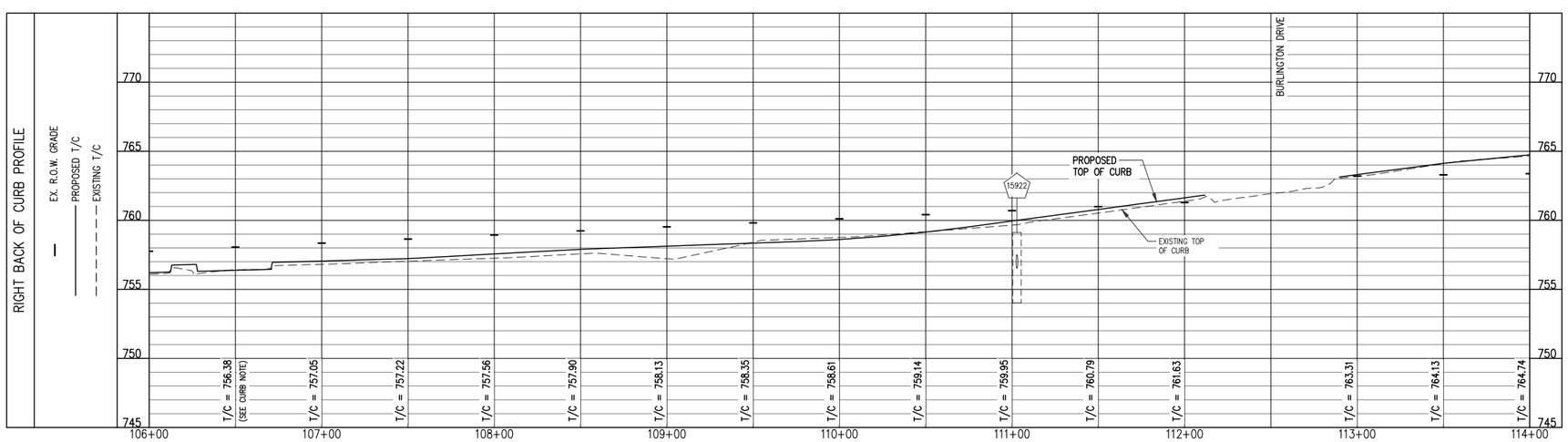


## CURB NOTE

T/C CURB ELEVATIONS IN DRIVE OPENINGS ARE TO TOP OF L OPENING (KNOCKED DOWN CURB). ADD 0.50' TO GET FULL HEIGHT CURB FOR STRINGING/STAKING PURPOSES.

HOR: 0 40 ft 80 ft
VERT: 0 5 ft 10 ft

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

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PREPARED FOR
# CITY OF FLINT
# COURT STREET REHABILITATION
STA. 106+00 TO STA. 114+00
ROAD AND STORM SEWER PROFILE SHEET

REV:

SHT# 47 OF 100
JOB No: 18C0137

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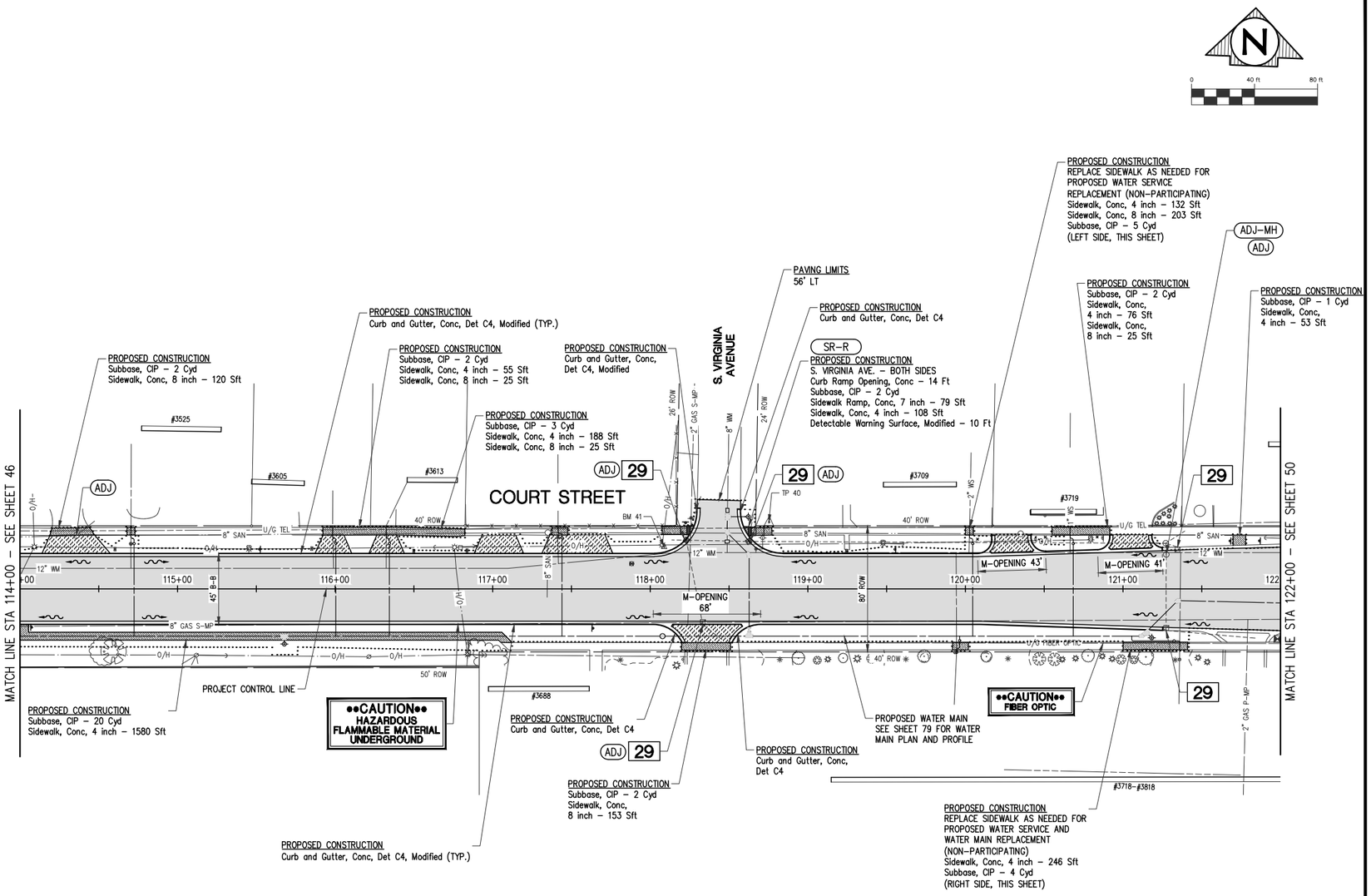


## SHEET QUANTITIES
## CATEGORY 5 - PARTICIPATING

| DESCRIPTION | QUANTITY | UNITS |
|---|---|---|
| Erosion Control, Inlet Protection, Fabric Drop | 5 | Ea |
| Subbase, CIP | 70 | Cyd |
| Aggregate Base, 8 inch, Modified | 795 | Syd |
| Manhole Cover, Adj | 1 | Ea |
| Structure Cover, Adj, Case 1 | 5 | Ea |
| Underdrain, Subbase, 6 inch | 500 | Ft |
| HMA, 4E1 | 355 | Ton |
| HMA, 5E1 | 355 | Ton |
| Lane Tie, Epoxy Anchored | 652 | Ea |
| Driveway, Nonreinf Conc, 8 inch | 277 | Syd |
| Curb and Gutter, Conc, Det C4 | 90 | Ft |
| Driveway Opening, Conc, Det M | 152 | Ft |
| Curb and Gutter, Conc, Det C4, Modified | 1275 | Ft |
| Curb Ramp Opening, Conc | 14 | Ft |
| Sidewalk Ramp, Conc, 7 inch | 79 | Sft |
| Sidewalk, Conc, 4 inch | 2060 | Sft |
| Detectable Warning Surface, Modified | 10 | Ft |
| Sidewalk, Conc, 8 inch | 348 | Sft |
| Post, Mailbox | 5 | Ea |

## SHEET QUANTITIES
## CATEGORY 3 - NON-PARTICIPATING

| DESCRIPTION | QUANTITY | UNITS |
|---|---|---|
| Subbase, CIP | 9 | Cyd |
| Aggregate Base, 8 inch, Modified | 210 | Syd |
| HMA, 3C | 75 | Ton |
| Sidewalk, Conc, 4 inch | 378 | Sft |
| Sidewalk, Conc, 8 inch | 203 | Sft |

## DRIVEWAY REPLACEMENT SCHEDULE

| C/L DRIVEWAY STATION | PROPOSED DRIVEWAY TYPE | WIDTH AT ROAD (FT) | WIDTH AT BACK OF DRIVEWAY (FT) | LENGTH OF DRIVEWAY REPLACEMENT FROM B/C (FT) | EXISTING SLOPE (%) | PROPOSED SLOPE (%) | Subbase, CIP (CYD) | Pavt, Rem, Modified (SYD) | Driveway, Nonreinf Conc, 8 inch (SYD) |
|---|---|---|---|---|---|---|---|---|---|
| 114+36 L | CONC | 44 | 28 | 11 | 5.5 | 6.3 | 6 | 60 | 46 |
| 115+99 L | CONC | 23 | 13 | 12 | 3.8 | 4.2 | 3 | 17 | 24 |
| 116+33 L | CONC | 23 | 13 | 12 | 5.5 | 5.4 | 3 | 16 | 23 |
| 117+04 L | CONC | 31 | 21 | 11 | 3.3 | 4.2 | 4 | 30 | 34 |
| 117+54 L | CONC | 45 | 35 | 12 | 4 | 3.7 | 6 | 51 | 52 |
| 118+36 R | CONC | 68 | 27 | 12 | 6.5 | 7.3 | 6 | 53 | 46 |
| 120+29 L | CONC | 43 | 21 | 11 | 7.2 | 5.8 | 4 | 33 | 28 |
| 121+05 L | CONC | 41 | 23 | 9 | 5.5 | 6 | 3 | 28 | 24 |

Know what's **below.**
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## PLAN SUBMITTALS AND CHANGES

BIDDING DOCUMENTS

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|---|---|
| 6/5/2019 | ISSUED FOR BIDS |

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

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# CITY OF FLINT
# COURT STREET REHABILITATION
STA. 114+00 TO STA. 122+00
ROAD AND STORM SEWER PLAN SHEET

REV:

SHT# 48 OF 100
JOB No: 18C0137

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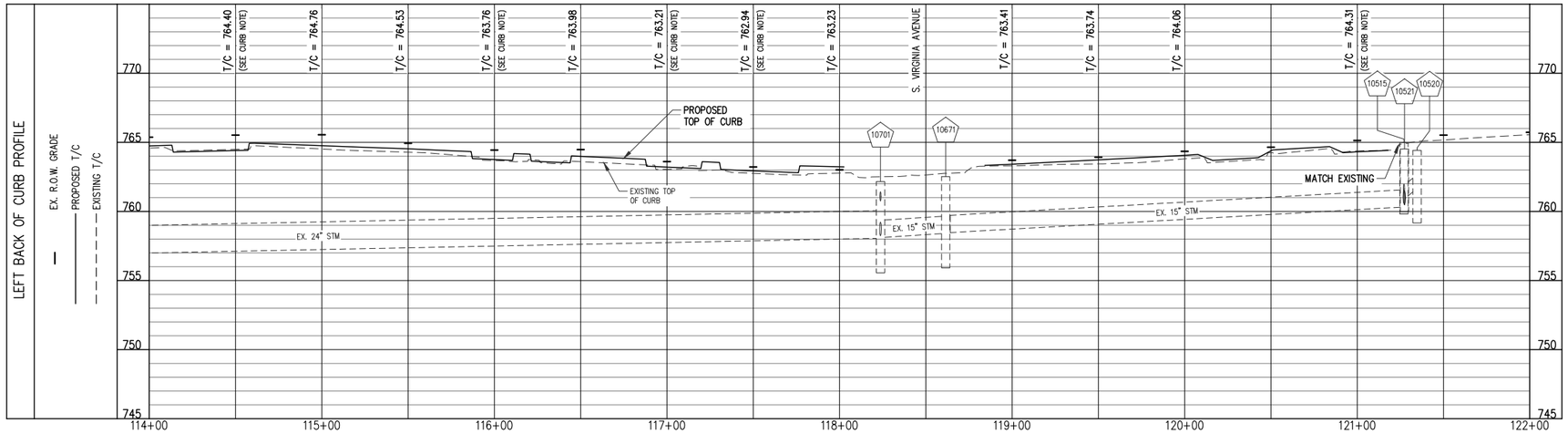


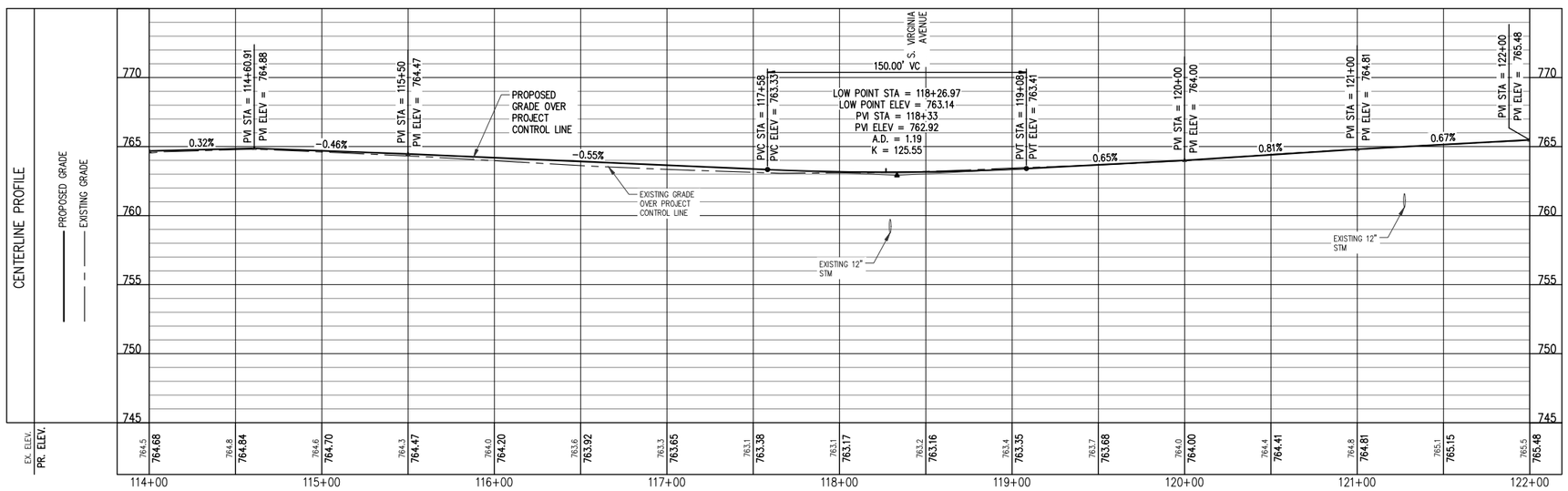


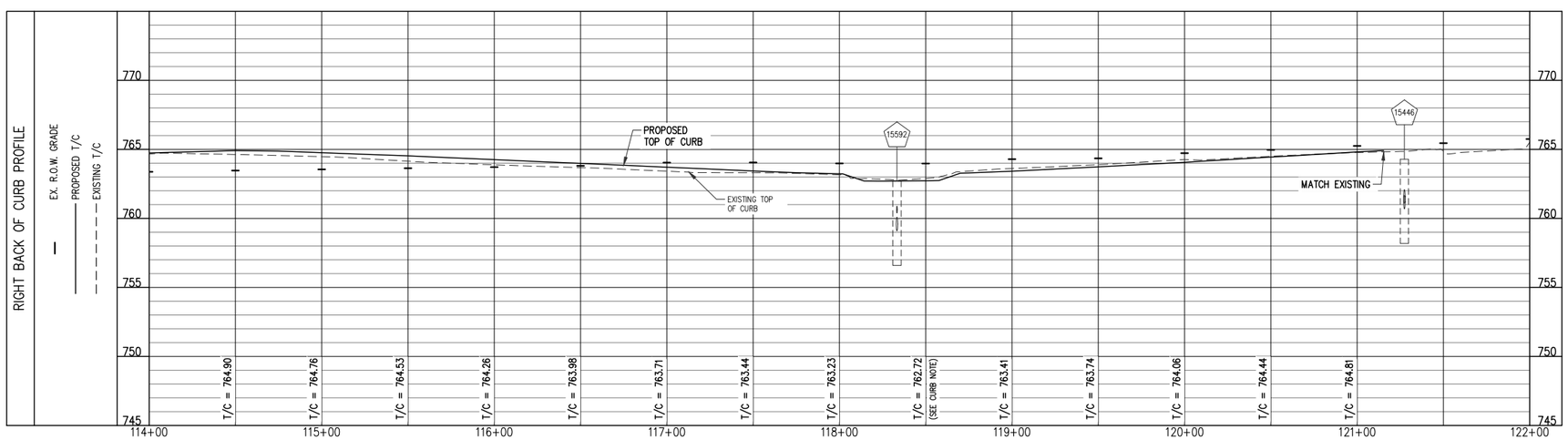


## CURB NOTE

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HOR: 0 40 ft 80 ft
VERT: 0 5 ft 10 ft

| PLAN SUBMITTALS AND CHANGES | |
|---|---|
| BIDDING DOCUMENTS | |
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ROAD AND STORM SEWER PROFILE SHEET

REV:

SHT# 49 OF 100
JOB No: 18C0137

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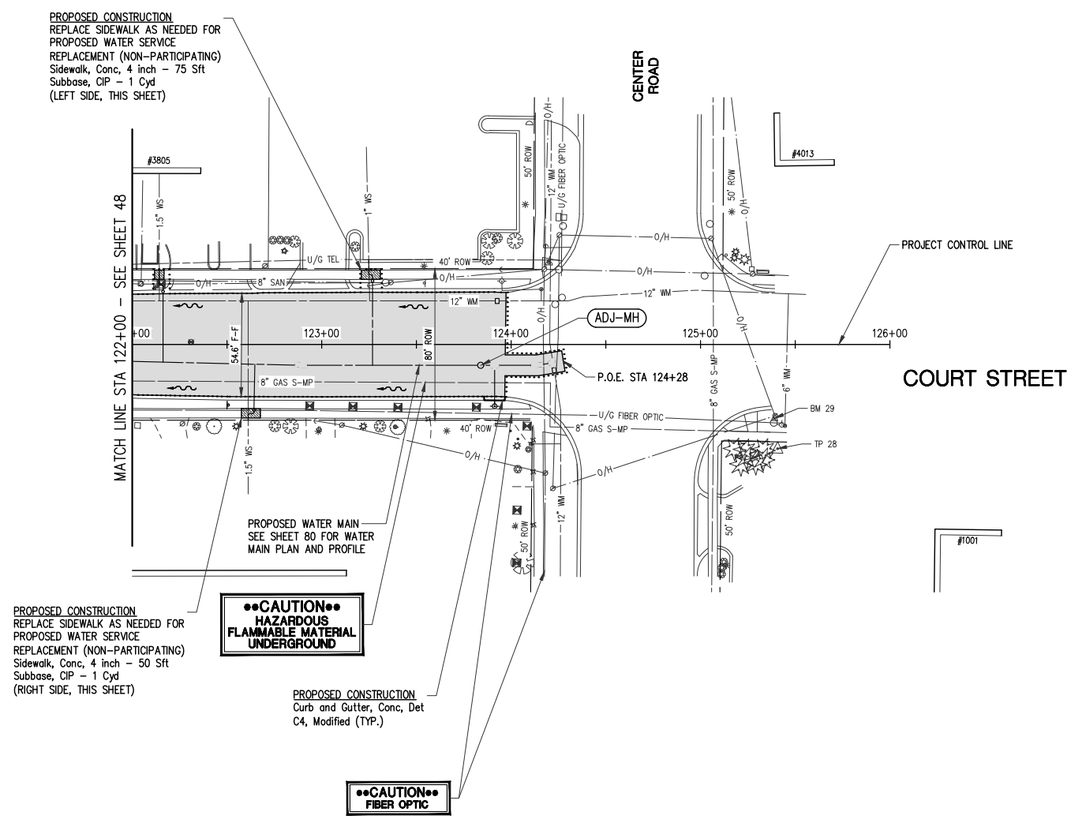

## SHEET QUANTITIES
## CATEGORY 5 - PARTICIPATING

| DESCRIPTION | QUANTITY | UNITS |
|---|---|---|
| Aggregate Base, 8 inch, Modified | 24 | Syd |
| Manhole Cover, Adj | 1 | Ea |
| HMA, 4E1 | 115 | Ton |
| HMA, 5E1 | 115 | Ton |
| Lane Tie, Epoxy Anchored | 6 | Ea |
| Curb and Gutter, Conc, Det C4, Modified | 11 | Ft |

## SHEET QUANTITIES
## CATEGORY 3 - NON-PARTICIPATING

| DESCRIPTION | QUANTITY | UNITS |
|---|---|---|
| Subbase, CIP | 2 | Cyd |
| Aggregate Base, 8 inch, Modified | 305 | Syd |
| HMA, 3C | 110 | Ton |
| Sidewalk, Conc, 4 inch | 125 | Sft |

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**PLAN SUBMITTALS AND CHANGES**

BIDDING DOCUMENTS

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PLAN DATE: JUNE 2019
PROJECT MGR: JMB
REVIEWER: TCL
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ROAD AND STORM SEWER PLAN SHEET

REV:

SHT# 50 OF 100

JOB No: 18C0137

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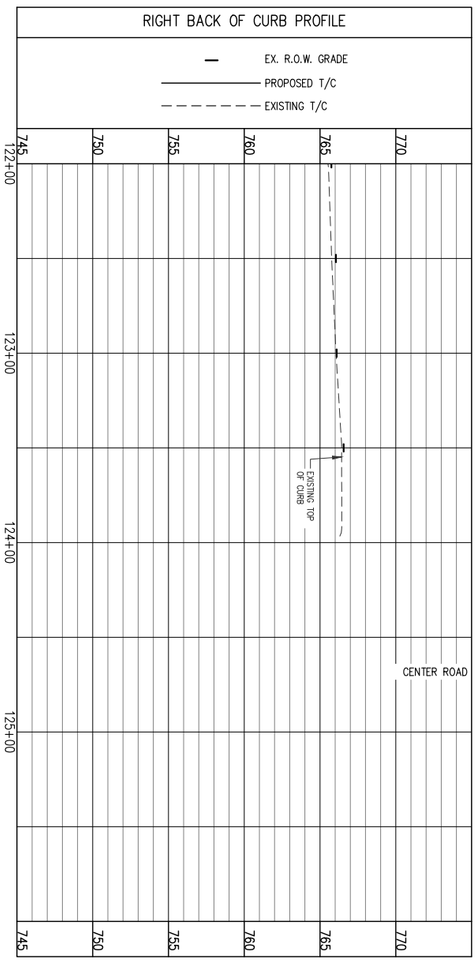


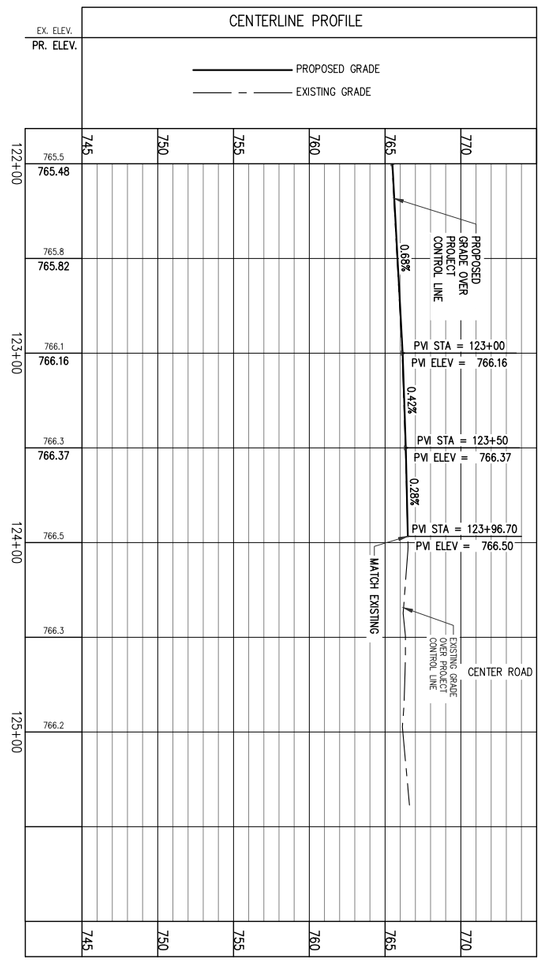


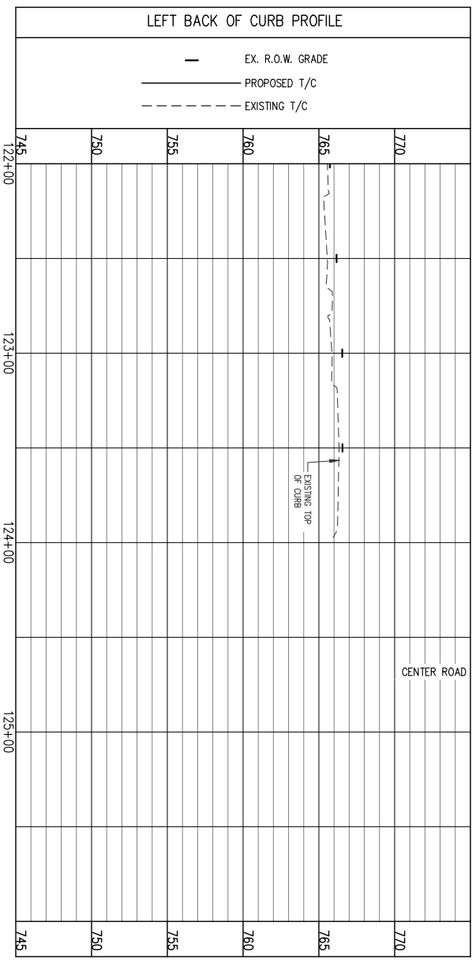


## CURB NOTE

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HORZ: 0 40 ft 80 ft
VERT: 0 5 ft 10 ft

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**PLAN SUBMITTALS AND CHANGES**

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REV:

PREPARED FOR

# CITY OF FLINT
# COURT STREET REHABILITATION

STA. 122+00 TO P.O.E. STA. 124+28

ROAD AND STORM SEWER PROFILE SHEET

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PLAN DATE: JUNE 2019
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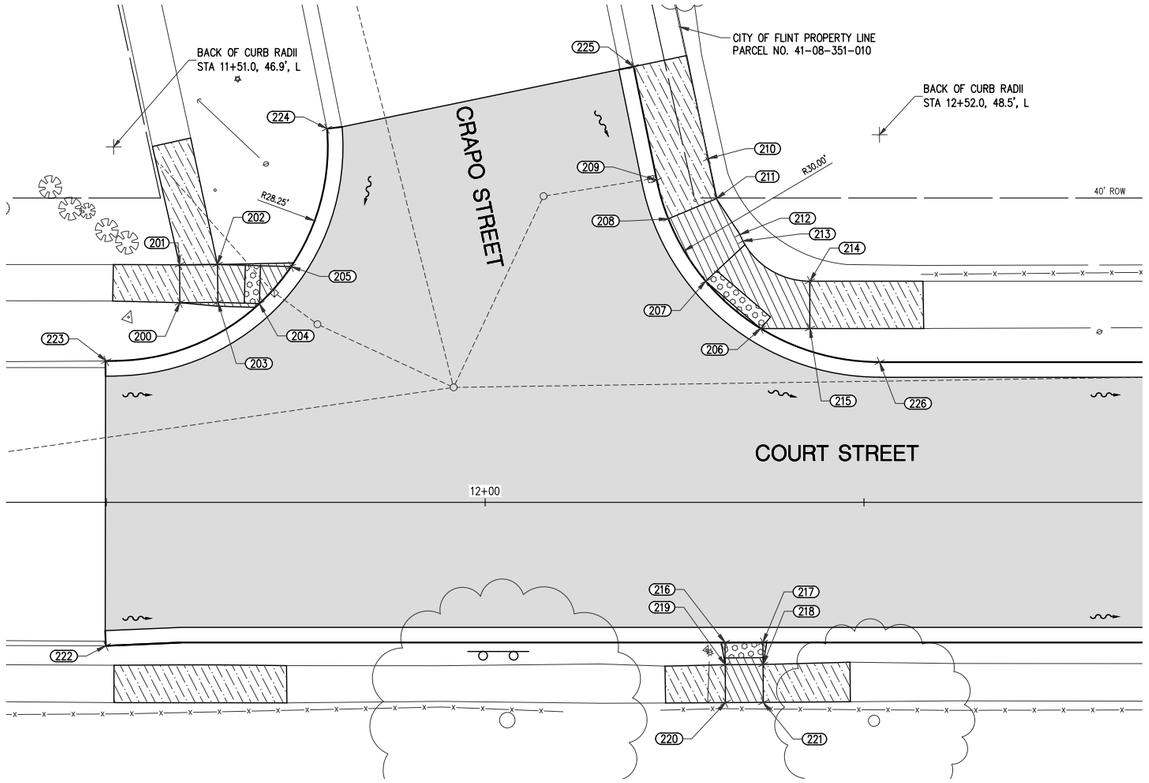


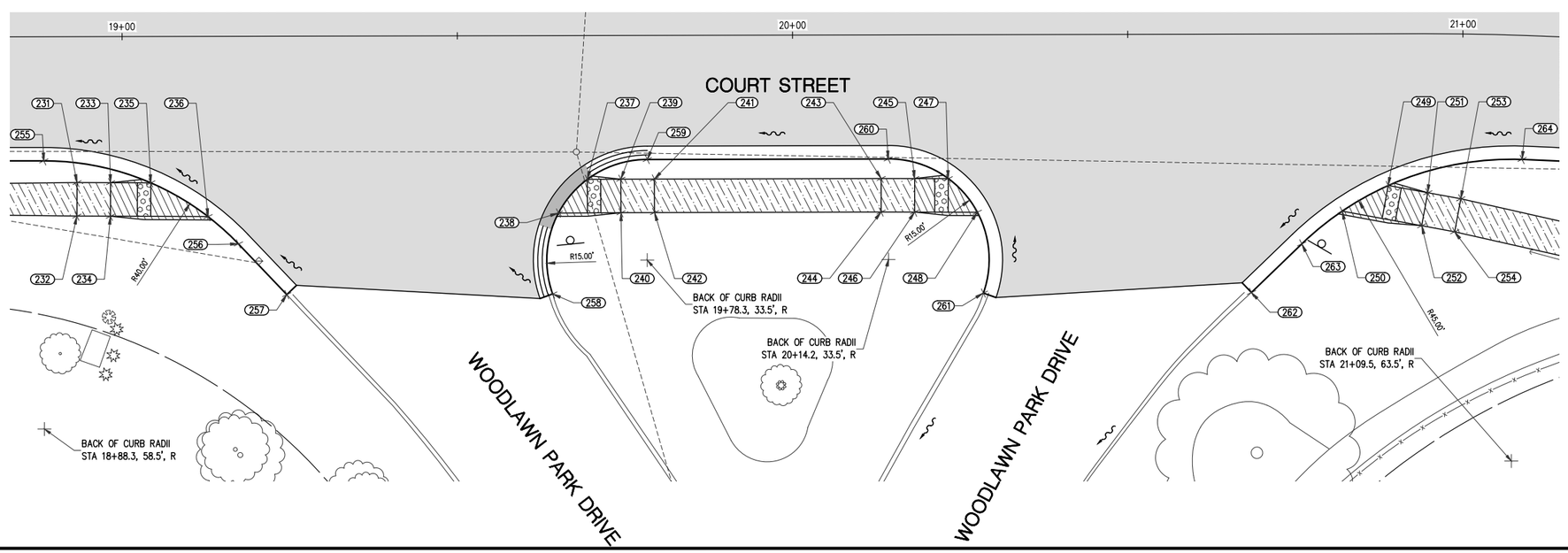

| GRADING POINTS | | | | |
|---|---|---|---|---|
| POINT | DESCRIPTION | STATION | OFFSET | ELEVATION |
| 200 | T/S @ L.L. | 11+59.70 | 26.34, L | 734.10 |
| 201 | T/S @ L.L. | 11+59.67 | 31.34, L | 734.16 |
| 202 | T/S @ L.L. | 11+64.67 | 31.37, L | 734.08 |
| 203 | T/S @ L.L. | 11+64.73 | 26.37, L | 734.02 |
| 204 | T/S @ R.O. | 11+70.20 | 26.22, L | * 733.68 |
| 205 | T/S @ R.O. | 11+74.38 | 31.11, L | * 733.54 |
| 206 | T/S @ R.O. | 12+36.36 | 22.93, L | * 731.75 |
| 207 | T/S @ R.O. | 12+29.10 | 29.17, L | * 731.70 |
| 208 | T/S & T/C | 12+24.17 | 37.41, L | 732.16 |
| 209 | T/S &T/C @ S.P. | 12+22.65 | 42.50, L | 732.13 |
| 210 | T/S @ S.P. | 12+29.43 | 45.34, L | 732.30 |
| 211 | T/S | 12+30.52 | 40.07, L | 732.07 |
| 212 | T/S @ S.P. | 12+33.62 | 35.33, L | 731.80 |
| 213 | T/S @ L.L. | 12+34.03 | 34.46, L | 731.80 |
| 214 | T/S @ L.L. | 12+42.85 | 29.17, L | 731.85 |
| 215 | T/S @ L.L. | 12+42.85 | 22.93, L | 731.85 |
| 216 | T/S @ R.O. | 12+31.65 | 18.50, R | * 732.34 |
| 217 | T/S @ R.O. | 12+36.66 | 18.50, R | * 732.24 |
| 218 | T/S @ L.L. | 12+36.68 | 21.39, R | 732.42 |
| 219 | T/S @ L.L. | 12+31.68 | 21.43, R | 732.50 |
| 220 | T/S @ L.L. | 12+31.71 | 26.43, R | 732.58 |
| 221 | T/S @ L.L. | 12+36.71 | 26.39, R | 732.50 |
| 222 | T/C @ M.E. | 11+49.93 | 18.94, R | 735.26 |
| 223 | T/C @ S.P., M.E. | 11+49.99 | 18.65, L | 735.42 |
| 224 | T/C @ S.P., M.E. | 11+79.11 | 49.31, L | 734.16 |

*SEE GRADING NOTE

| GRADING POINTS | | | | |
|---|---|---|---|---|
| POINT | DESCRIPTION | STATION | OFFSET | ELEVATION |
| 225 | T/C @ M.E. | 12+19.59 | 57.49, L | 732.62 |
| 226 | T/C @ S.P. | 12+52.05 | 18.50, L | 732.33 |
| 231 | T/S @ L.L. | 18+93.23 | 21.75, R | 737.02 |
| 232 | T/S @ L.L. | 18+93.20 | 26.75, R | 737.11 |
| 233 | T/S @ L.L. | 18+98.23 | 21.78, R | 737.09 |
| 234 | T/S @ L.L. | 18+98.20 | 26.78, R | 737.18 |
| 235 | T/S @ R.O. | 19+04.23 | 21.81, R | * 737.09 |
| 236 | T/S @ R.O. | 19+12.76 | 26.86, R | * 737.50 |
| 237 | T/S @ R.O. | 19+69.34 | 21.44, R | * 739.63 |
| 238 | T/S @ R.O. | 19+65.02 | 26.46, R | * 739.30 |
| 239 | T/S @ L.L. | 19+74.34 | 21.43, R | 739.93 |
| 240 | T/S @ L.L. | 19+74.35 | 26.43, R | 740.02 |
| 241 | T/S @ L.L. | 19+79.34 | 21.42, R | 740.03 |
| 242 | T/S @ L.L. | 19+79.35 | 26.42, R | 740.12 |
| 243 | T/S @ L.L. | 20+13.17 | 21.40, R | 742.15 |
| 244 | T/S @ L.L. | 20+13.15 | 26.40, R | 742.24 |
| 245 | T/S @ L.L. | 20+18.17 | 21.43, R | 742.24 |
| 246 | T/S @ L.L. | 20+18.15 | 26.43, R | 742.33 |
| 247 | T/S @ R.O. | 20+23.17 | 21.45, R | * 742.62 |
| 248 | T/S @ R.O. | 20+27.49 | 26.47, R | * 742.81 |
| 249 | T/S @ R.O. | 20+88.81 | 22.62, R | * 745.13 |
| 250 | T/S @ R.O. | 20+81.92 | 26.43, R | * 744.79 |
| 251 | T/S @ L.L. | 20+94.74 | 23.71, R | 745.62 |
| 252 | T/S @ L.L. | 20+93.79 | 28.63, R | 745.68 |
| 253 | T/S @ L.L. | 20+99.98 | 24.59, R | 745.71 |

*SEE GRADING NOTE

| GRADING POINTS | | | | |
|---|---|---|---|---|
| POINT | DESCRIPTION | STATION | OFFSET | ELEVATION |
| 254 | T/S @ L.L. | 20+99.07 | 29.51, R | 745.77 |
| 255 | T/C @ S.P. | 18+88.28 | 18.50, R | 736.92 |
| 256 | T/C @ S.P. | 19+17.28 | 30.95, R | 738.25 |
| 257 | T/C @ M.E. | 19+24.48 | 38.52, R | 738.67 |
| 258 | T/C @ M.E. | 19+64.13 | 38.52, R | 740.06 |
| 259 | T/C @ S.P. | 19+78.30 | 18.50, R | 740.80 |
| 260 | T/C @ S.P. | 20+14.24 | 18.50, R | 742.38 |
| 261 | T/C @ M.E. | 20+28.38 | 38.52, R | 743.52 |
| 262 | T/C @ M.E. | 20+68.37 | 38.52, R | 744.55 |
| 263 | T/C @ S.P. | 20+75.89 | 31.30, R | 744.95 |
| 264 | T/C @ S.P. | 21+09.50 | 18.50, R | 746.53 |




## GRADING TABLE LEGEND

S.P. – SPRING POINT
M.E. – MATCH EXISTING
T/C – TOP OF CURB
T/S – TOP OF SIDEWALK
C.B. – CATCH BASIN
R.O. – RAMP OPENING
E/M – EDGE OF METAL
L.L. – LEVEL LANDING

TRANSITION FROM C4 CURB AND GUTTER TO C4 SPILL CURB AND GUTTER (10' TYP.)

C4 SPILL CURB AND GUTTER

## GRADING NOTE

RAMP OPENING = TOP OF CURB WITH CURB CUT FOR ADA RAMP. ADD 0.50' TO GET FULL HEIGHT CURB FOR STRINGING/STAKING PURPOSES.

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# CITY OF FLINT
# COURT STREET REHABILITATION
CRAPO STREET AND WOODLAWN PARK DRIVE
INTERSECTION GRADING SHEET

REV:

SHT# 52 OF 100

JOB No: 18C0137

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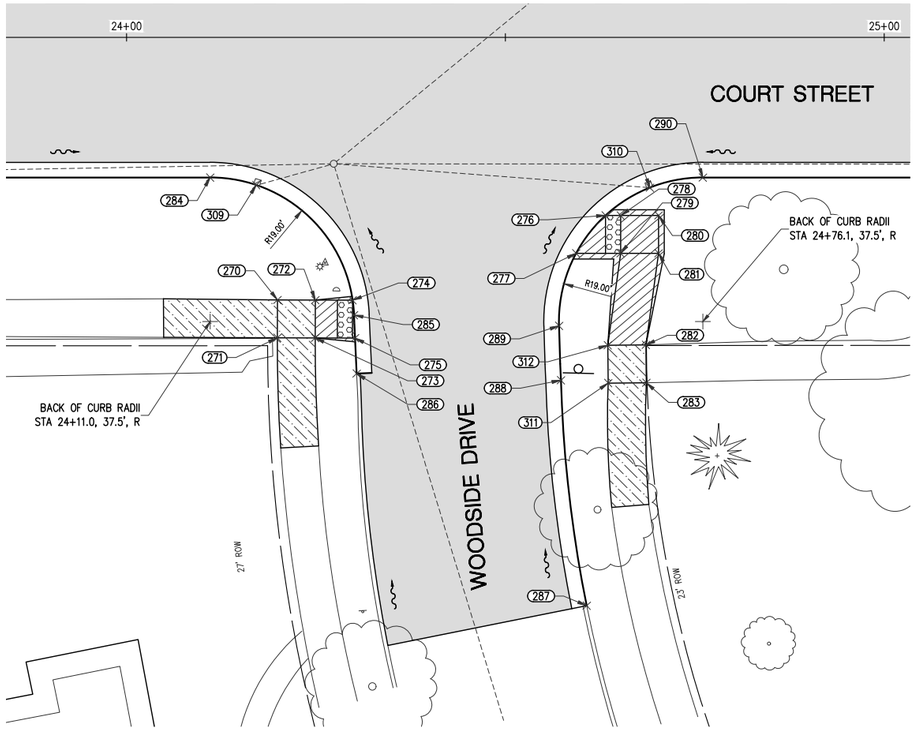


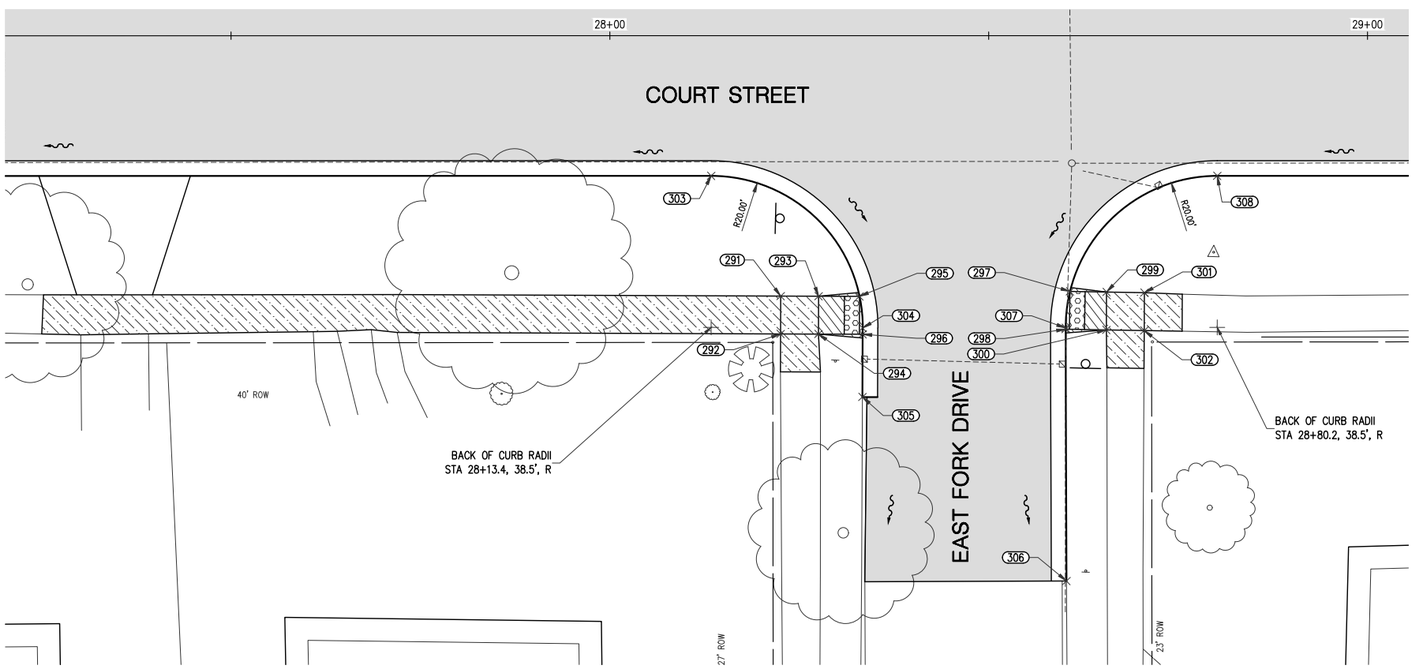


| GRADING POINTS | | | | |
|---|---|---|---|---|
| POINT | DESCRIPTION | STATION | OFFSET | ELEVATION |
| 270 | T/S @ L.L. | 24+19.93 | 34.65, R | 747.49 |
| 271 | T/S @ L.L. | 24+19.90 | 39.65, R | 747.48 |
| 272 | T/S @ L.L. | 24+24.93 | 34.67, R | 747.39 |
| 273 | T/S @ L.L. | 24+24.90 | 39.67, R | 747.38 |
| 274 | T/S @ R.O. | 24+29.83 | 34.69, R | * 747.07 |
| 275 | T/S @ R.O. | 24+30.16 | 39.69, R | * 747.09 |
| 276 | T/S @ R.O. | 24+63.22 | 23.50, R | * 747.00 |
| 277 | T/S @ R.O. | 24+59.34 | 28.50, R | * 747.03 |
| 278 | T/S @ L.L. | 24+65.22 | 23.52, R | 747.16 |
| 279 | T/S @ L.L. | 24+65.22 | 28.50, R | 747.24 |
| 280 | T/S @ L.L. | 24+70.22 | 23.50, R | 747.25 |
| 281 | T/S @ L.L. | 24+70.22 | 28.50, R | 747.34 |
| 282 | T/S @ L.L., M.E. | 24+68.55 | 40.59, R | 748.24 |
| 283 | T/S @ L.L., M.E. | 24+68.59 | 45.58, R | 748.32 |
| 284 | T/C @ S.P. | 24+11.04 | 18.50, R | 747.75 |
| 285 | T/C @ S.P., R.O. | 24+30.02 | 36.65, R | * 747.08 |
| 286 | T/C @ M.E. | 24+30.37 | 44.38, R | 747.61 |
| 287 | T/S @ M.E. | 24+60.73 | 74.99, R | 747.71 |
| 288 | T/C @ S.P. | 24+57.33 | 45.26, R | 747.61 |
| 289 | T/C @ S.P. | 24+57.08 | 38.06, R | 747.57 |

*SEE GRADING NOTE

| GRADING POINTS | | | | |
|---|---|---|---|---|
| POINT | DESCRIPTION | STATION | OFFSET | ELEVATION |
| 290 | T/C @ S.P. | 24+76.07 | 18.50, R | 747.55 |
| 291 | T/S @ L.L. | 28+22.56 | 34.36, R | 749.32 |
| 292 | T/S @ L.L. | 28+22.54 | 39.36, R | 749.33 |
| 293 | T/S @ L.L. | 28+27.56 | 34.38, R | 749.29 |
| 294 | T/S @ L.L. | 28+27.54 | 39.38, R | 749.30 |
| 295 | T/S @ R.O. | 28+32.95 | 34.40, R | * 748.94 |
| 296 | T/S @ R.O. | 28+33.37 | 39.40, R | * 748.89 |
| 297 | T/S @ R.O. | 28+60.74 | 33.74, R | * 749.31 |
| 298 | T/S @ R.O. | 28+60.17 | 38.73, R | * 749.23 |
| 299 | T/S @ L.L. | 28+65.57 | 33.82, R | 749.67 |
| 300 | T/S @ L.L. | 28+65.54 | 38.82, R | 749.61 |
| 301 | T/S @ L.L. | 28+70.56 | 33.91, R | 749.77 |
| 302 | T/S @ L.L. | 28+70.54 | 38.91, R | 749.71 |
| 303 | T/C @ S.P. | 28+13.38 | 18.50, R | 749.76 |
| 304 | T/C @ S.P., R.O. | 28+33.38 | 38.58, R | * 748.89 |
| 305 | T/C @ M.E. | 28+33.34 | 47.67, R | 749.35 |
| 306 | T/C @ M.E. | 28+60.28 | 71.95, R | 749.28 |
| 307 | T/C @ S.P., R.O. | 28+60.17 | 38.57, R | * 749.23 |
| 308 | T/C @ S.P. | 28+80.17 | 18.50, R | 750.20 |
| 309 | T/C @ C.B. | 24+17.13 | 19.50, R | 747.53 |

*SEE GRADING NOTE

| GRADING POINTS | | | | |
|---|---|---|---|---|
| POINT | DESCRIPTION | STATION | OFFSET | ELEVATION |
| 310 | T/C @ C.B. | 24+69.08 | 19.83, R | 747.47 |
| 311 | T/S @ L.L. | 24+63.57 | 45.63, R | 748.24 |

## GRADING TABLE LEGEND

S.P. – SPRING POINT
M.E. – MATCH EXISTING
T/C – TOP OF CURB
T/S – TOP OF SIDEWALK
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R.O. – RAMP OPENING
E/M – EDGE OF METAL
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## GRADING NOTE

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| 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"=10'

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F: (810) 341-7573
www.rowepsc.com
The Rowe Building
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Flint, MI 48502

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COURT STREET REHABILITATION
WOODSIDE DRIVE AND EAST FORK DRIVE
INTERSECTION GRADING SHEET

REV:

SHT# 53 OF 100

JOB No: 18C0137

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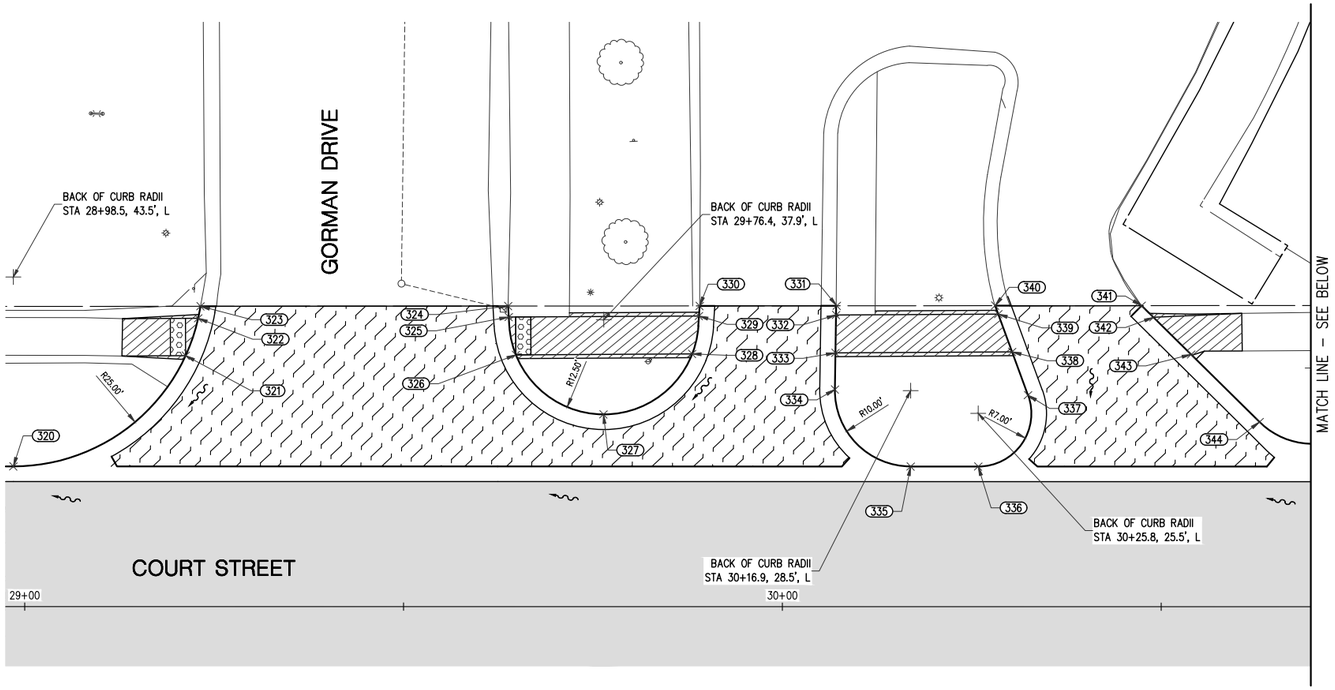


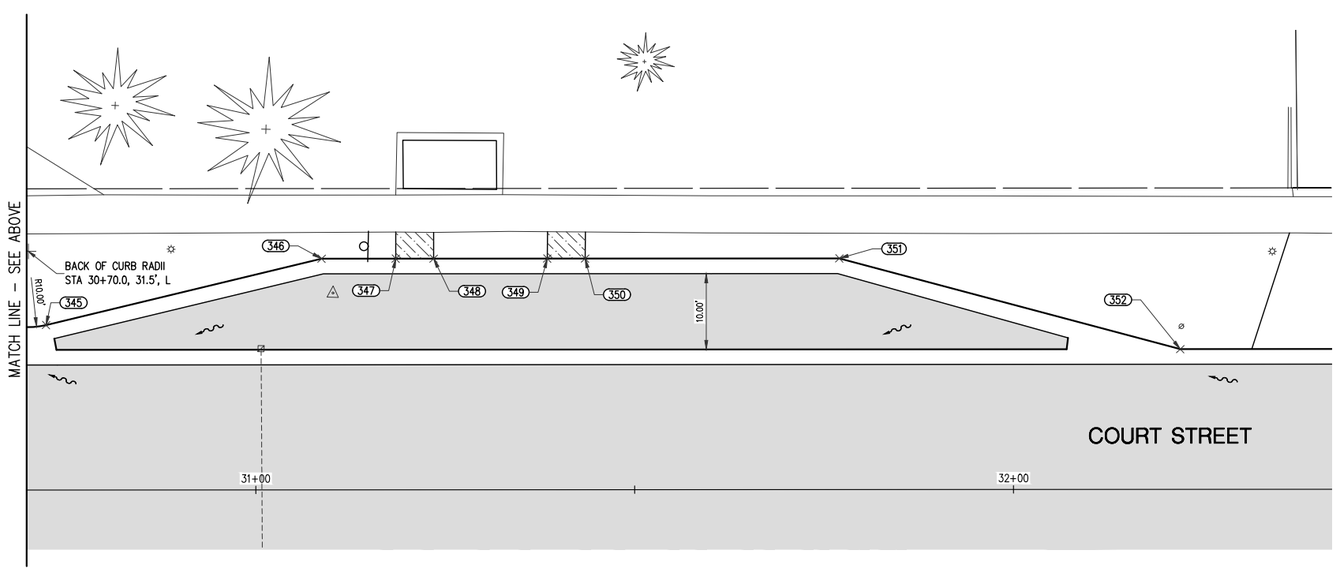


| GRADING POINTS | | | | |
|---|---|---|---|---|
| POINT | DESCRIPTION | STATION | OFFSET | ELEVATION |
| 320 | T/C @ S.P. | 28+98.49 | 18.50, L | 750.32 |
| 321 | T/S @ R.O. | 29+21.24 | 33.12, L | * 750.46 |
| 322 | T/S @ R.O. | 29+22.90 | 38.04, L | * 750.55 |
| 323 | T/C @ M.E. | 29+23.20 | 39.63, L | 751.09 |
| 324 | T/C @ M.E. | 29+63.79 | 39.66, L | 751.32 |
| 325 | T/S @ R.O. | 29+63.88 | 38.22, L | * 750.79 |
| 326 | T/S @ R.O. | 29+64.82 | 33.23, L | * 750.69 |
| 327 | T/C @ S.P. | 29+76.38 | 25.37, L | 750.91 |
| 328 | T/S @ R.O. | 29+88.07 | 33.35, L | * 751.00 |
| 329 | T/S @ R.O. | 29+88.98 | 38.36, L | * 751.06 |
| 330 | T/C @ M.E. | 29+89.07 | 39.68, L | 751.60 |
| 331 | T/C @ M.E. | 30+07.17 | 39.70, L | 751.47 |
| 332 | T/S @ R.O. | 30+07.08 | 38.49, L | * 750.95 |
| 333 | T/S @ R.O. | 30+07.00 | 33.49, L | * 750.89 |
| 334 | T/C @ S.P. | 30+06.92 | 28.66, L | 751.33 |
| 335 | T/C @ S.P. | 30+16.92 | 18.50, L | 751.12 |
| 336 | T/C @ S.P. | 30+25.83 | 18.50, L | 751.18 |
| 337 | T/C @ S.P. | 30+32.41 | 27.91, L | 751.49 |
| 338 | T/S @ R.O. | 30+30.31 | 33.62, L | * 751.17 |
| 339 | T/S @ R.O. | 30+28.48 | 38.61, L | * 751.26 |
| 340 | T/C @ M.E. | 30+28.08 | 39.72, L | 751.79 |
| 341 | T/C @ M.E. | 30+47.40 | 39.73, L | 751.85 |
| 342 | T/S @ R.O. | 30+48.97 | 38.18, L | * 751.33 |
| 343 | T/S @ R.O. | 30+53.94 | 33.28, L | * 751.23 |
| 344 | T/C @ S.P. | 30+62.96 | 24.38, L | 751.57 |

*SEE GRADING NOTE

| GRADING POINTS | | | | |
|---|---|---|---|---|
| POINT | DESCRIPTION | STATION | OFFSET | ELEVATION |
| 345 | T/C @ S.P. | 30+72.33 | 21.77, L | 751.44 |
| 346 | T/C @ S.P. | 31+08.70 | 30.50, L | 752.22 |
| 347 | T/S & T/C | 31+18.50 | 30.50, L | 752.27 |
| 348 | T/S & T/C | 31+23.50 | 30.50, L | 752.30 |
| 349 | T/S & T/C | 31+38.50 | 30.50, L | 752.38 |
| 350 | T/S & T/C | 31+43.50 | 30.50, L | 752.40 |
| 351 | T/C @ S.P. | 31+77.03 | 30.50, L | 752.58 |
| 352 | T/C @ S.P. | 32+22.03 | 18.50, L | 752.49 |

*SEE GRADING NOTE

## GRADING TABLE LEGEND

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REV:

SHT# 54 OF 100
JOB No: 18C0137

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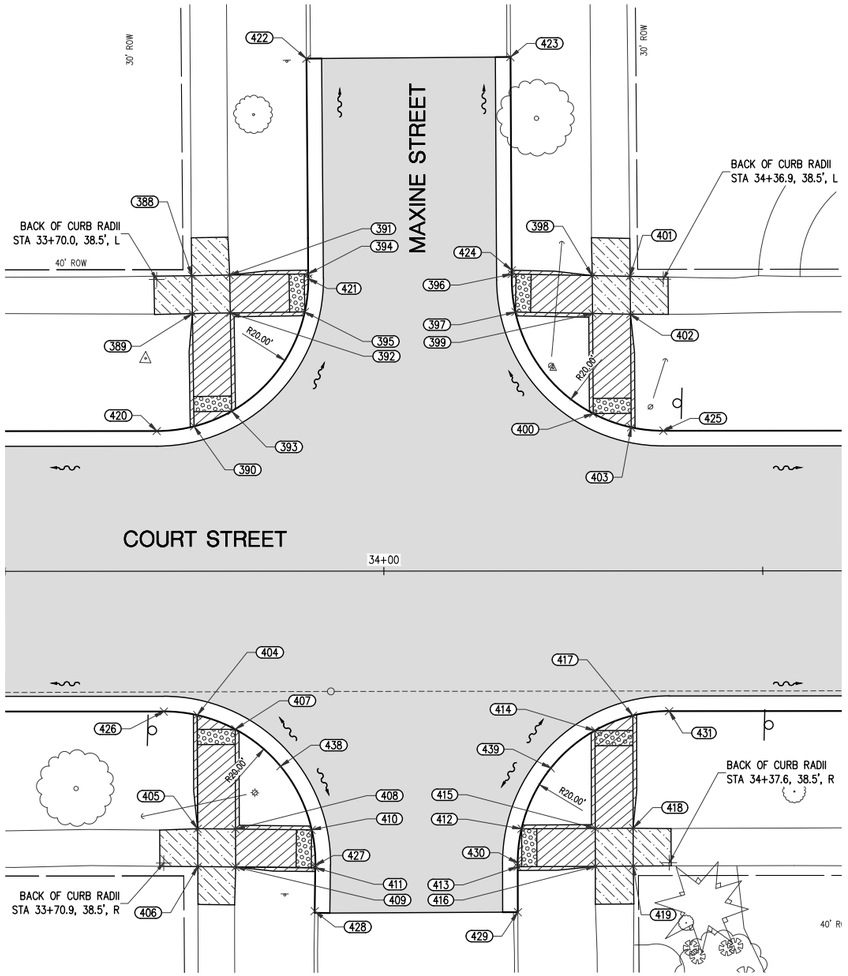


| GRADING POINTS | | | | |
|---|---|---|---|---|
| POINT | DESCRIPTION | STATION | OFFSET | ELEVATION |
| 370 | T/S @ L.L. | 30+81.96 | 33.95, R | 751.79 |
| 371 | T/S @ L.L. | 30+82.06 | 38.96, R | 751.82 |
| 372 | T/S @ L.L. | 30+86.96 | 34.01, R | 751.77 |
| 373 | T/S @ L.L. | 30+87.06 | 39.01, R | 751.79 |
| 374 | T/S @ R.O. | 30+97.34 | 34.12, R | * 751.09 |
| 375 | T/S @ R.O. | 30+97.83 | 39.12, R | * 751.10 |
| 376 | T/S @ R.O. | 31+25.35 | 34.41, R | * 751.33 |
| 377 | T/S @ R.O. | 31+24.94 | 39.42, R | * 751.30 |
| 378 | T/S @ L.L. | 31+34.94 | 34.30, R | 751.98 |
| 379 | T/S @ L.L. | 31+35.03 | 39.30, R | 752.00 |
| 380 | T/S @ L.L. | 31+39.94 | 34.24, R | 752.00 |
| 381 | T/S @ L.L. | 31+40.03 | 39.24, R | 752.10 |
| 382 | T/C @ S.P. | 30+77.82 | 18.50, R | 751.52 |
| 383 | T/C @ S.P., R.O. | 30+97.82 | 38.28, R | * 751.10 |
| 384 | T/C @ M.E. | 30+97.93 | 47.87, R | 751.12 |
| 385 | T/C @ M.E. | 31+25.41 | 63.77, R | 751.69 |
| 386 | T/C @ S.P., R.O. | 31+24.93 | 39.02, R | * 751.31 |
| 387 | T/C @ S.P. | 31+44.93 | 18.50, R | 751.97 |
| 388 | T/S @ L.L. | 33+74.67 | 39.01, L | 753.67 |
| 389 | T/S @ L.L. | 33+74.74 | 34.01, L | 753.65 |
| 390 | T/S @ R.O. | 33+74.96 | 19.11, L | * 752.95 |
| 391 | T/S @ L.L. | 33+79.67 | 39.08, L | 753.63 |
| 392 | T/S @ L.L. | 33+79.74 | 34.08, L | 753.60 |
| 393 | T/S @ R.O. | 33+79.93 | 21.12, L | * 752.94 |
| 394 | T/S @ R.O. | 33+90.04 | 39.22, L | * 752.88 |

*SEE GRADING NOTE

| GRADING POINTS | | | | |
|---|---|---|---|---|
| POINT | DESCRIPTION | STATION | OFFSET | ELEVATION |
| 395 | T/S @ R.O. | 33+89.57 | 34.21, L | * 752.89 |
| 396 | T/S @ R.O. | 34+16.90 | 39.19, L | * 752.93 |
| 397 | T/S @ R.O. | 34+17.37 | 34.18, L | * 752.95 |
| 398 | T/S @ L.L. | 34+27.52 | 38.98, L | 753.70 |
| 399 | T/S @ L.L. | 34+27.56 | 33.98, L | 753.66 |
| 400 | T/S @ R.O. | 34+27.64 | 20.77, L | * 752.99 |
| 401 | T/S @ L.L. | 34+32.52 | 38.88, L | 753.77 |
| 402 | T/S @ L.L. | 34+32.56 | 33.88, L | 753.73 |
| 403 | T/S @ R.O. | 34+32.66 | 18.96, L | * 753.01 |
| 404 | T/S @ R.O. | 33+75.35 | 19.00, R | * 753.00 |
| 405 | T/S @ L.L. | 33+75.39 | 33.98, R | 753.81 |
| 406 | T/S @ L.L. | 33+75.41 | 38.98, R | 753.82 |
| 407 | T/S @ R.O. | 33+80.36 | 20.86, R | * 753.05 |
| 408 | T/S @ L.L. | 33+80.39 | 34.03, R | 753.78 |
| 409 | T/S @ L.L. | 33+80.41 | 39.03, R | 753.80 |
| 410 | T/S @ R.O. | 33+90.44 | 34.13, R | * 753.07 |
| 411 | T/S @ R.O. | 33+90.92 | 39.14, R | * 753.08 |
| 412 | T/S @ R.O. | 34+18.15 | 34.02, R | * 753.05 |
| 413 | T/S @ R.O. | 34+17.64 | 39.02, R | * 753.03 |
| 414 | T/S @ R.O. | 34+27.84 | 21.06, R | * 753.06 |
| 415 | T/S @ L.L. | 34+27.87 | 33.97, R | 753.60 |
| 416 | T/S @ L.L. | 34+27.88 | 38.97, R | 753.68 |
| 417 | T/S @ R.O. | 34+32.84 | 19.08, R | * 753.04 |
| 418 | T/S @ L.L. | 34+32.87 | 33.95, R | 753.68 |
| 419 | T/S @ L.L. | 34+32.88 | 38.95, R | 753.76 |

*SEE GRADING NOTE

| GRADING POINTS | | | | |
|---|---|---|---|---|
| POINT | DESCRIPTION | STATION | OFFSET | ELEVATION |
| 420 | T/C @ S.P. | 33+70.04 | 18.50, L | 753.46 |
| 421 | T/C @ S.P., R.O. | 33+90.04 | 38.64, L | * 752.88 |
| 422 | T/C @ M.E. | 33+89.82 | 67.63, L | 753.32 |
| 423 | T/C @ M.E. | 34+16.76 | 67.82, L | 753.36 |
| 424 | T/C @ S.P. | 34+16.90 | 39.69, L | 753.43 |
| 425 | T/C @ S.P. | 34+36.90 | 18.50, L | 753.52 |
| 426 | T/C @ S.P. | 33+70.92 | 18.50, R | 753.47 |
| 427 | T/C @ S.P., R.O. | 33+90.92 | 38.82, R | * 753.08 |
| 428 | T/C @ M.E. | 33+90.83 | 44.86, R | 753.56 |
| 429 | T/C @ M.E. | 34+17.65 | 45.01, R | 753.49 |
| 430 | T/C @ S.P., R.O. | 34+17.64 | 38.55, R | * 753.03 |
| 431 | T/C @ S.P. | 34+37.64 | 18.50, R | 753.52 |
| 438 | T/C | 33+86.34 | 25.75, R | 753.62 |
| 439 | T/C | 34+22.02 | 26.01, R | 753.59 |

*SEE GRADING NOTE

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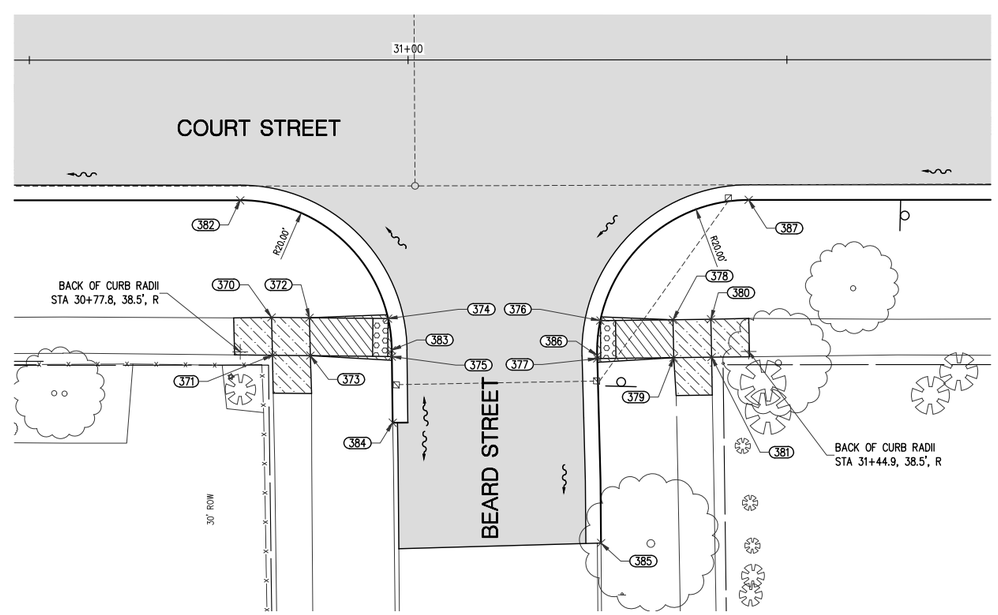


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PREPARED FOR
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# COURT STREET REHABILITATION
BEARD STREET AND MAXINE STREET
INTERSECTION GRADING SHEET

REV:

SHT# 55 OF 100

JOB No: 18C0137

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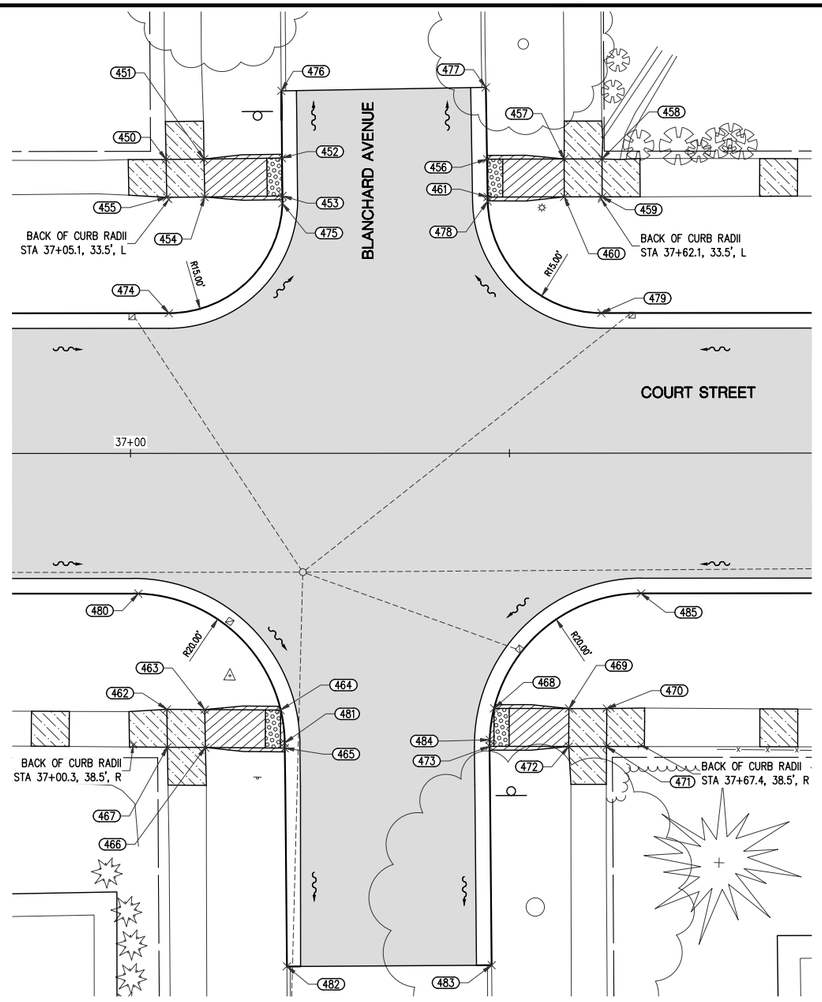



| GRADING POINTS | | | | |
|---|---|---|---|---|
| POINT | DESCRIPTION | STATION | OFFSET | ELEVATION |
| 490 | T/S @ L.L. | 40+04.28 | 38.82, L | 752.19 |
| 491 | T/S @ L.L. | 40+09.28 | 38.82, L | 752.10 |
| 492 | T/C @ S.P., R.O. | 40+18.63 | 38.81, L | • 751.36 |
| 493 | T/S @ R.O. | 40+18.08 | 33.81, L | • 751.39 |
| 494 | T/S @ L.L. | 40+09.27 | 33.82, L | 752.06 |
| 495 | T/S @ L.L. | 40+04.27 | 33.82, L | 752.15 |
| 496 | T/S @ R.O. | 40+47.48 | 39.15, L | • 751.16 |
| 497 | T/S @ L.L. | 40+56.97 | 39.06, L | 751.90 |
| 498 | T/S @ L.L. | 40+61.97 | 39.01, L | 752.00 |
| 499 | T/S @ L.L. | 40+62.01 | 34.01, L | 751.97 |
| 500 | T/S @ L.L. | 40+57.01 | 34.06, L | 751.88 |
| 501 | T/S @ R.O. | 40+47.96 | 34.15, L | • 751.19 |
| 502 | T/S @ L.L. | 40+05.19 | 33.96, R | 752.33 |
| 503 | T/S @ L.L. | 40+10.19 | 33.97, R | 752.25 |
| 504 | T/S @ R.O. | 40+20.16 | 33.99, R | • 751.61 |

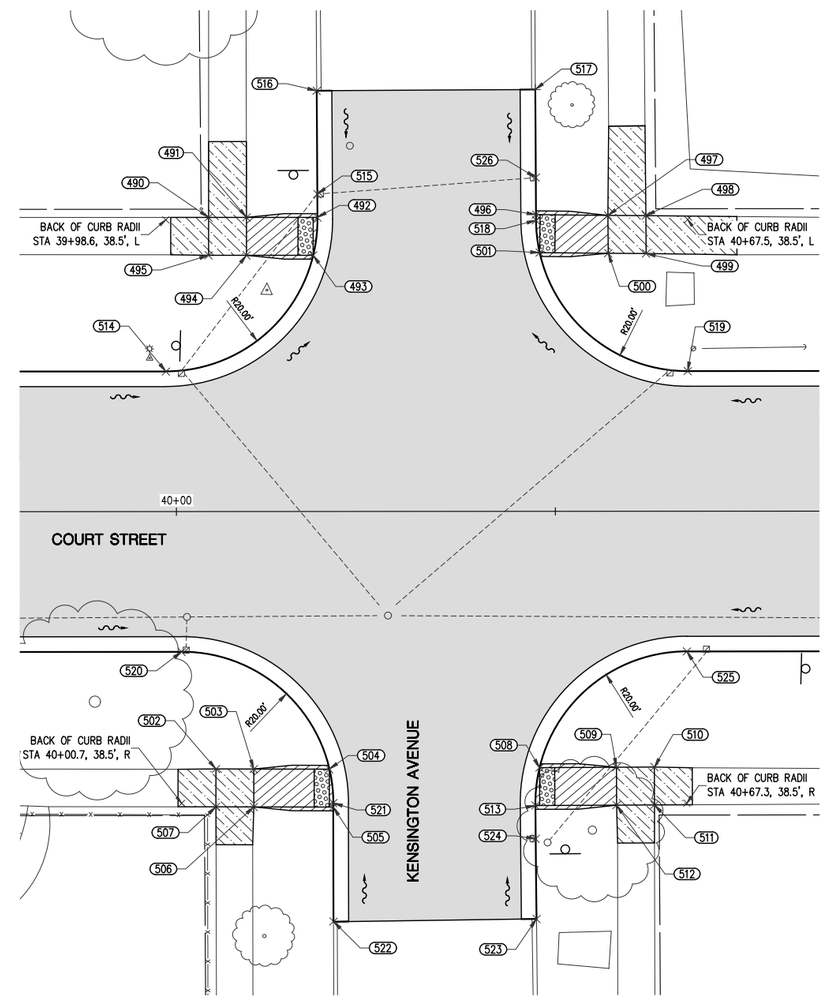
*SEE GRADING NOTE

| GRADING POINTS | | | | |
|---|---|---|---|---|
| POINT | DESCRIPTION | STATION | OFFSET | ELEVATION |
| 505 | T/S @ R.O. | 40+20.67 | 38.99, R | • 751.62 |
| 506 | T/S @ L.L. | 40+10.20 | 38.97, R | 752.29 |
| 507 | T/S @ L.L. | 40+05.20 | 38.96, R | 752.38 |
| 508 | T/S @ R.O. | 40+47.90 | 33.82, R | • 751.14 |
| 509 | T/S @ L.L. | 40+58.05 | 33.78, R | 751.95 |
| 510 | T/S @ L.L. | 40+63.05 | 33.75, R | 751.99 |
| 511 | T/S @ L.L. | 40+63.05 | 38.75, R | 752.02 |
| 512 | T/S @ L.L. | 40+58.05 | 38.78, R | 751.95 |
| 513 | T/C @ S.P., R.O. | 40+47.34 | 38.83, R | • 751.10 |
| 514 | T/C @ S.P. | 39+98.63 | 18.50, L | 752.04 |
| 515 | T/C @ C.B. | 40+18.62 | 41.88, L | 751.81 |
| 516 | T/C @ M.E. | 40+18.55 | 55.53, L | 751.94 |
| 517 | T/C @ M.E. | 40+47.40 | 55.67, L | 751.91 |
| 518 | T/C @ S.P., R.O. | 40+47.48 | 38.40, L | • 751.17 |
| 519 | T/C @ S.P. | 40+67.48 | 18.50, L | 751.85 |

*SEE GRADING NOTE

| GRADING POINTS | | | | |
|---|---|---|---|---|
| POINT | DESCRIPTION | STATION | OFFSET | ELEVATION |
| 520 | T/C @ S.P. | 40+00.67 | 18.50, R | 752.03 |
| 521 | T/C @ S.P., R.O. | 40+20.67 | 38.47, R | • 751.62 |
| 522 | T/C @ M.E. | 40+20.70 | 54.11, R | 752.17 |
| 523 | T/C @ M.E. | 40+47.48 | 53.78, R | 751.90 |
| 524 | T/C @ C.B. | 40+47.38 | 43.21, R | 751.57 |
| 525 | T/C @ S.P. | 40+67.34 | 18.50, R | 751.85 |

*SEE GRADING NOTE

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| GRADING POINTS | | | | |
|---|---|---|---|---|
| POINT | DESCRIPTION | STATION | OFFSET | ELEVATION |
| 450 | T/S @ L.L. | 37+04.71 | 38.78, L | 752.12 |
| 451 | T/S @ L.L. | 37+09.71 | 38.84, L | 752.04 |
| 452 | T/S @ R.O. | 37+20.01 | 38.97, L | • 751.24 |
| 453 | T/S @ R.O. | 37+20.06 | 33.97, L | • 751.30 |
| 454 | T/S @ L.L. | 37+09.80 | 33.84, L | 752.05 |
| 455 | T/S @ L.L. | 37+04.80 | 33.78, L | 752.12 |
| 456 | T/S @ R.O. | 37+47.06 | 38.81, L | • 751.31 |
| 457 | T/S @ L.L. | 37+57.24 | 38.83, L | 752.00 |
| 458 | T/S @ L.L. | 37+62.24 | 38.83, L | 752.02 |
| 459 | T/S @ L.L. | 37+62.26 | 33.83, L | 751.93 |
| 460 | T/S @ L.L. | 37+57.26 | 33.83, L | 751.91 |
| 461 | T/S @ R.O. | 37+47.14 | 33.81, L | • 751.35 |
| 462 | T/S @ L.L. | 37+04.77 | 33.77, R | 752.19 |
| 463 | T/S @ L.L. | 37+09.78 | 33.81, R | 752.12 |
| 464 | T/S @ R.O. | 37+19.79 | 33.89, R | • 751.47 |
| 465 | T/S @ R.O. | 37+20.34 | 38.89, R | • 751.45 |
| 466 | T/S @ L.L. | 37+09.86 | 38.81, R | 752.17 |
| 467 | T/S @ L.L. | 37+04.85 | 38.77, R | 752.23 |

*SEE GRADING NOTE

| GRADING POINTS | | | | |
|---|---|---|---|---|
| POINT | DESCRIPTION | STATION | OFFSET | ELEVATION |
| 468 | T/S @ R.O. | 37+47.96 | 33.68, R | 751.45 |
| 469 | T/S @ L.L. | 37+57.84 | 33.70, R | 752.18 |
| 470 | T/S @ L.L. | 37+62.84 | 33.70, R | 752.19 |
| 471 | T/S @ L.L. | 37+62.81 | 38.70, R | 752.22 |
| 472 | T/S @ L.L. | 37+57.81 | 38.70, R | 752.21 |
| 473 | T/S @ R.O. | 37+47.37 | 38.68, R | 751.42 |
| 474 | T/C @ S.P. | 37+05.06 | 18.50, L | 752.10 |
| 475 | T/C @ S.P. | 37+20.06 | 32.99, L | 751.81 |
| 476 | T/C @ M.E. | 37+19.92 | 47.83, L | 751.64 |
| 477 | T/C @ M.E. | 37+46.90 | 48.29, L | 751.72 |
| 478 | T/C @ S.P. | 37+47.15 | 33.25, L | 751.86 |
| 479 | T/C @ S.P. | 37+62.15 | 18.50, L | 752.10 |
| 480 | T/C @ S.P. | 37+01.02 | 18.51, R | 752.08 |
| 481 | T/C @ S.P., R.O. | 37+20.33 | 38.23, R | 751.45 |
| 482 | T/C @ M.E. | 37+20.62 | 67.70, R | 751.81 |
| 483 | T/C @ M.E. | 37+47.62 | 67.56, R | ??? |
| 484 | T/C @ S.P., R.O. | 37+47.38 | 37.82, R | 751.42 |
| 485 | T/C @ S.P. | 37+67.37 | 18.50, R | 752.09 |

*SEE GRADING NOTE

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"=10'


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


PREPARED FOR
# CITY OF FLINT
# COURT STREET REHABILITATION
BLANCHARD AVENUE AND KENSINGTON AVE
INTERSECTION GRADING SHEET

REV:

SHT# 56 OF 100

JOB No: 18C0137

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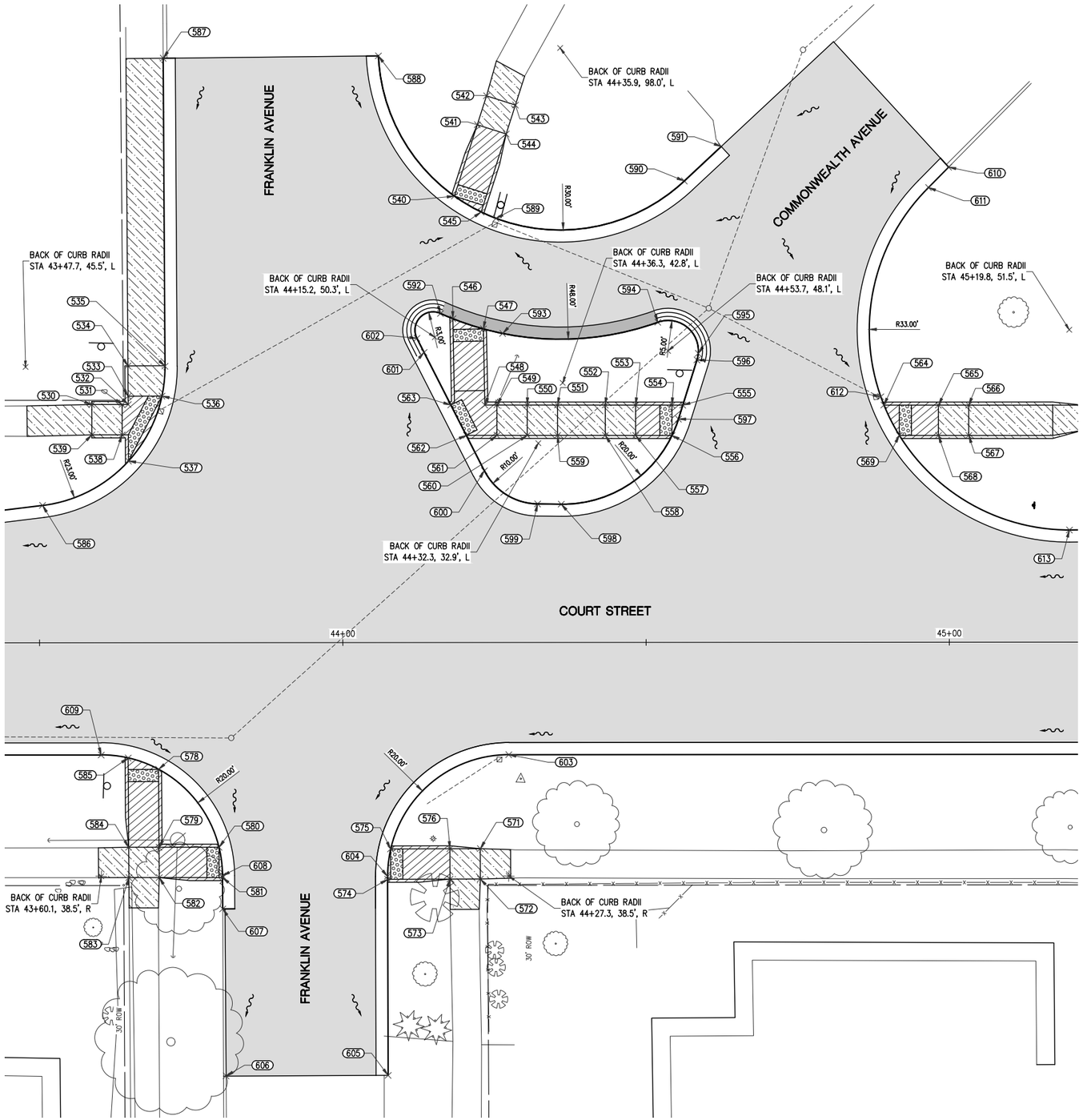


| GRADING POINTS | | | | |
|---|---|---|---|---|
| POINT | DESCRIPTION | STATION | OFFSET | ELEVATION |
| 530 | T/S | 43+58.63 | 39.27, L | 752.87 |
| 531 | T/S @ L.L. | 43+63.63 | 39.27, L | 752.72 |
| 532 | T/S @ L.L. | 43+64.63 | 39.27, L | 752.71 |
| 533 | T/S @ L.L. | 43+64.62 | 40.65, L | 752.72 |
| 534 | T/S | 43+64.59 | 45.65, L | 753.12 |
| 535 | T/S @ S.P. | 43+70.71 | 45.60, L | 753.13 |
| 536 | T/S @ R.O. | 43+70.20 | 40.68, L | *752.63 |
| 537 | T/S @ R.O. | 43+64.68 | 29.95, L | *752.61 |
| 538 | T/S @ L.L. | 43+63.63 | 34.27, L | 752.69 |
| 539 | T/S | 43+58.63 | 34.27, L | 752.84 |
| 540 | T/S @ R.O. | 44+18.44 | 73.60, L | *752.47 |
| 541 | T/S @ L.L. | 44+22.22 | 85.37, L | 753.23 |
| 542 | T/S @ L.L. | 44+23.75 | 90.13, L | 753.41 |
| 543 | T/S @ L.L. | 44+28.51 | 88.60, L | 753.31 |
| 544 | T/S @ L.L. | 44+26.98 | 83.84, L | 753.23 |
| 545 | T/S @ R.O. | 44+22.85 | 70.98, L | *752.35 |
| 546 | T/S @ R.O. | 44+18.18 | 53.39, L | *752.73 |
| 547 | T/S @ R.O. | 44+23.21 | 51.71, L | *752.72 |
| 548 | T/S @ L.L. | 44+23.44 | 39.15, L | 752.88 |
| 549 | T/S @ L.L. | 44+25.44 | 39.15, L | 752.91 |
| 550 | T/S @ L.L. | 44+30.44 | 39.14, L | 753.06 |
| 551 | T/S @ L.L. | 44+35.44 | 39.14, L | 753.05 |
| 552 | T/S @ L.L. | 44+43.30 | 39.13, L | 753.01 |
| 553 | T/S @ L.L. | 44+48.30 | 39.13, L | 752.99 |
| 554 | T/S @ L.L. | 44+54.30 | 39.13, L | 752.81 |
| 555 | T/S @ R.O. | 44+56.09 | 39.12, L | *752.79 |
| 556 | T/S @ R.O. | 44+54.30 | 34.13, L | *752.82 |
| 557 | T/S @ L.L. | 44+48.30 | 34.13, L | 753.00 |
| 558 | T/S @ L.L. | 44+43.30 | 34.13, L | 753.00 |
| 559 | T/S @ L.L. | 44+35.43 | 34.14, L | 753.01 |
| 560 | T/S @ L.L. | 44+30.43 | 34.14, L | 753.02 |
| 561 | T/S @ L.L. | 44+25.43 | 34.15, L | 752.87 |
| 562 | T/S @ R.O. | 44+20.38 | 34.15, L | *752.84 |
| 563 | T/S @ R.O. | 44+17.83 | 39.15, L | *752.81 |
| 564 | T/S @ R.O. | 44+89.24 | 39.10, L | *753.09 |
| 565 | T/S @ L.L. | 44+98.23 | 39.09, L | 753.48 |
| 567 | T/S @ L.L. | 45+03.22 | 34.09, L | 753.47 |
| 568 | T/S @ L.L. | 44+98.22 | 34.09, L | 753.42 |
| 569 | T/S @ R.O. | 44+91.78 | 34.11, L | *753.12 |
| 571 | T/S @ L.L. | 44+22.64 | 33.98, R | 753.53 |
| 572 | T/S @ L.L. | 44+22.64 | 38.98, R | 753.56 |
| 573 | T/S @ L.L. | 44+17.64 | 38.99, R | 753.55 |

*SEE GRADING NOTE

| GRADING POINTS | | | | |
|---|---|---|---|---|
| POINT | DESCRIPTION | STATION | OFFSET | ELEVATION |
| 574 | T/S @ R.O. | 44+07.35 | 39.02, R | *752.81 |
| 575 | T/S @ R.O. | 44+07.85 | 34.02, R | *752.83 |
| 576 | T/S @ L.L. | 44+17.64 | 33.99, R | 753.56 |
| 578 | T/S @ R.O. | 43+69.59 | 20.87, R | *752.68 |
| 579 | T/S @ L.L. | 43+69.67 | 33.72, R | 753.03 |
| 580 | T/S @ R.O. | 43+79.56 | 33.73, R | *752.59 |
| 581 | T/S @ R.O. | 43+80.14 | 38.73, R | *752.57 |
| 582 | T/S @ L.L. | 43+69.71 | 38.72, R | 753.12 |
| 583 | T/S @ L.L. | 43+64.71 | 38.72, R | 753.22 |
| 584 | T/S @ L.L. | 43+64.67 | 33.72, R | 753.13 |
| 585 | T/S @ R.O. | 43+64.58 | 19.00, R | *752.71 |
| 586 | T/C @ S.P. | 43+50.50 | 22.65, L | 753.09 |
| 587 | T/C @ M.E. | 43+70.44 | 96.35, L | 753.19 |
| 588 | T/C @ M.E. | 44+05.92 | 96.73, L | 753.61 |
| 589 | T/C @ C.B. | 44+25.31 | 69.93, L | 752.79 |
| 590 | T/C @ S.P. | 44+56.35 | 76.06, L | 753.41 |
| 591 | T/C | 44+62.45 | 81.75, L | 753.66 |
| 592 | T/C @ S.P. | 44+16.15 | 54.25, L | 753.24 |
| 593 | T/C | 44+26.40 | 50.95, L | 753.21 |
| 594 | T/C @ S.P. | 44+51.98 | 52.78, L | 753.23 |
| 595 | T/C | 44+58.63 | 47.64, L | 753.24 |
| 596 | T/S @ S.P. | 44+58.42 | 46.57, L | 753.25 |
| 597 | T/C @ S.P. | 44+55.36 | 36.81, L | 752.80 |
| 598 | T/C @ S.P. | 44+36.03 | 22.80, L | 753.44 |
| 599 | T/C @ S.P. | 44+32.13 | 22.85, L | 753.46 |
| 600 | T/C @ S.P. | 44+23.34 | 28.32, L | 753.38 |
| 601 | T/C | 44+13.42 | 47.84, L | 753.25 |
| 602 | T/C @ S.P. | 44+12.24 | 50.16, L | 753.25 |
| 603 | T/C @ S.P. | 44+27.34 | 18.50, R | 753.47 |
| 604 | T/C @ S.P., R.O. | 44+07.34 | 38.55, R | *752.81 |
| 605 | T/C | 44+07.42 | 71.35, R | 753.16 |
| 606 | E/M | 43+80.71 | 71.43, R | 752.44 |
| 607 | T/C | 43+80.16 | 43.89, R | 752.57 |
| 608 | T/C @ S.P., R.O. | 43+80.14 | 38.42, R | *752.57 |
| 609 | T/C @ S.P. | 43+60.14 | 18.50, R | 753.23 |
| 610 | T/C @ M.E. | 44+99.93 | 78.33, L | 753.86 |
| 611 | T/C @ S.P. | 44+96.62 | 74.97, L | 753.83 |
| 612 | T/C @ C.B. | 44+88.71 | 40.48, L | 753.59 |
| 613 | T/C @ S.P. | 45+19.82 | 18.50, L | 753.80 |

*SEE GRADING NOTE

## GRADING TABLE LEGEND

S.P. – SPRING POINT
M.E. – MATCH EXISTING
T/C – TOP OF CURB
T/S – TOP OF SIDEWALK
C.B. – CATCH BASIN
R.O. – RAMP OPENING
E/M – EDGE OF METAL
L.L. – LEVEL LANDING

TRANSITION FROM C4 CURB AND GUTTER TO C4 SPILL CURB AND GUTTER (10' TYP)

C4 SPILL CURB AND GUTTER

## GRADING NOTE

RAMP OPENING = TOP OF CURB WITH CURB CUT FOR ADA RAMP. ADD 0.50" TO GET FULL HEIGHT CURB FOR STRINGING/STAKING PURPOSES.

Know what's **below.**
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**PLAN SUBMITTALS AND CHANGES**

BIDDING DOCUMENTS

| DATE | DESCRIPTION |
|---|---|
| 6/5/2019 | ISSUED FOR BIDS |

PLAN DATE: JUNE 2019
PROJECT MGR: JMB
REVEWER: TCL
SCALE: 1"=10'

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PREPARED FOR
CITY OF FLINT
# COURT STREET REHABILITATION
FRANKLIN AVENUE AND COMMONWEALTH AVENUE
INTERSECTION GRADING SHEET

REV:

SHT# 57 OF 100

JOB No: 18C0137

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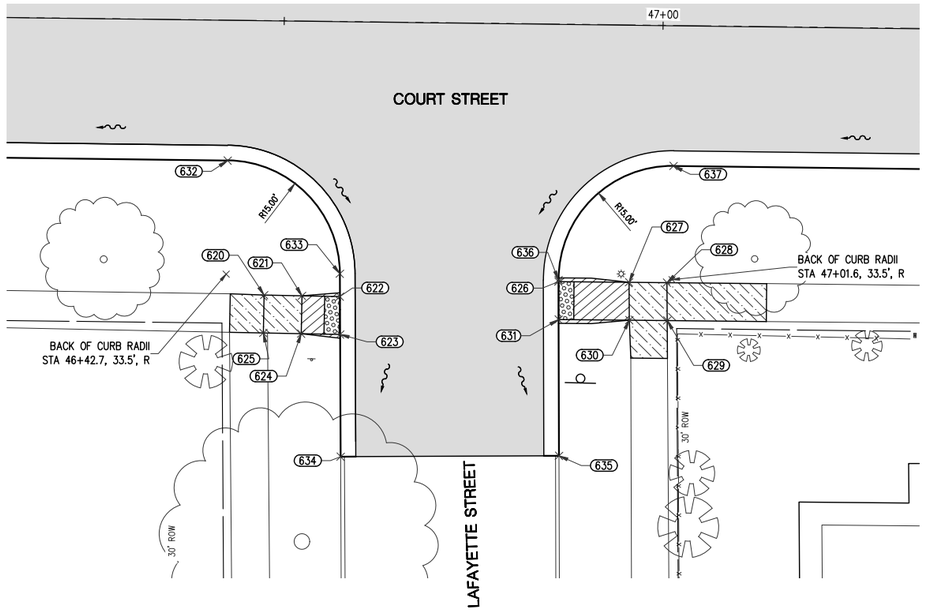
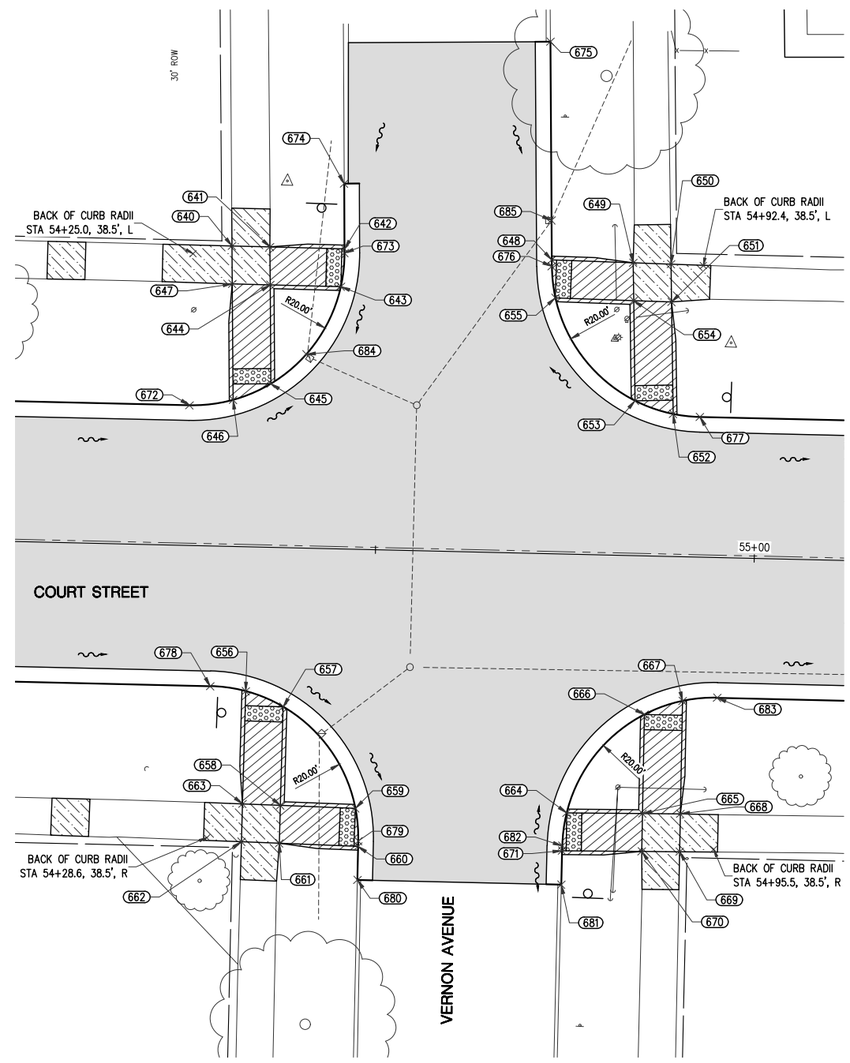



| GRADING POINTS | | | | |
|---|---|---|---|---|
| POINT | DESCRIPTION | STATION | OFFSET | ELEVATION |
| 620 | T/S @ L.L. | 46+47.79 | 36.20, R | 753.83 |
| 621 | T/S @ L.L. | 46+52.79 | 36.24, R | 753.75 |
| 622 | T/S @ R.O. | 46+57.79 | 36.28, R | • 753.38 |
| 623 | T/S @ R.O. | 46+57.87 | 41.28, R | • 753.32 |
| 624 | T/S @ L.L. | 46+52.75 | 41.24, R | 753.69 |
| 625 | T/S @ L.L. | 46+47.75 | 41.20, R | 753.77 |
| 626 | T/S @ R.O. | 46+86.60 | 33.95, R | • 753.55 |
| 627 | T/S @ L.L. | 46+95.93 | 33.93, R | 754.25 |
| 628 | T/S @ L.L. | 47+00.93 | 33.91, R | 754.32 |
| 629 | T/S @ L.L. | 47+01.02 | 38.91, R | 754.25 |

*SEE GRADING NOTE

| GRADING POINTS | | | | |
|---|---|---|---|---|
| POINT | DESCRIPTION | STATION | OFFSET | ELEVATION |
| 630 | T/S @ L.L. | 46+96.02 | 38.92, R | 754.17 |
| 631 | T/S @ R.O. | 46+86.68 | 38.95, R | • 753.47 |
| 632 | T/C @ S.P. | 46+42.74 | 18.50, R | 754.25 |
| 633 | T/C @ S.P. | 46+57.74 | 33.25, R | 753.92 |
| 634 | T/C @ M.E. | 46+58.14 | 57.40, R | 753.61 |
| 635 | T/C @ M.E. | 46+86.95 | 56.93, R | 753.68 |
| 636 | T/C @ S.P., R.O. | 46+86.60 | 33.73, R | • 753.55 |
| 637 | T/C @ S.P. | 47+01.60 | 18.50, R | 754.49 |

*SEE GRADING NOTE




| GRADING POINTS | | | | |
|---|---|---|---|---|
| POINT | DESCRIPTION | STATION | OFFSET | ELEVATION |
| 640 | T/S @ L.L. | 54+30.15 | 39.65, L | 752.71 |
| 641 | T/S @ L.L. | 54+35.15 | 39.63, L | 752.63 |
| 642 | T/S @ R.O. | 54+45.00 | 39.61, L | • 751.86 |
| 643 | T/S @ R.O. | 54+44.64 | 34.61, L | • 751.85 |
| 644 | T/S @ L.L. | 54+35.30 | 34.63, L | 752.58 |
| 645 | T/S @ R.O. | 54+35.69 | 21.59, L | • 752.02 |
| 646 | T/S @ R.O. | 54+30.76 | 19.34, L | • 752.19 |
| 647 | T/S @ L.L. | 54+30.30 | 34.65, L | 752.67 |
| 648 | T/S @ R.O. | 54+72.37 | 38.78, L | • 751.80 |
| 649 | T/S @ L.L. | 54+83.13 | 38.64, L | 752.11 |
| 650 | T/S @ L.L. | 54+88.13 | 38.58, L | 752.12 |
| 651 | T/S @ L.L. | 54+88.31 | 33.59, L | 752.22 |
| 652 | T/S @ R.O. | 54+88.86 | 18.81, L | • 752.04 |
| 653 | T/S @ R.O. | 54+83.79 | 20.44, L | • 752.00 |
| 654 | T/S @ L.L. | 54+83.31 | 33.65, L | 752.21 |
| 655 | T/S @ R.O. | 54+72.96 | 33.78, L | • 751.85 |
| 656 | T/S @ R.O. | 54+33.30 | 19.06, R | • 752.34 |
| 657 | T/S @ R.O. | 54+38.29 | 21.00, R | • 752.30 |
| 658 | T/S @ L.L. | 54+38.22 | 34.01, R | 752.74 |
| 659 | T/S @ R.O. | 54+48.14 | 34.18, R | • 752.19 |

*SEE GRADING NOTE

| GRADING POINTS | | | | |
|---|---|---|---|---|
| POINT | DESCRIPTION | STATION | OFFSET | ELEVATION |
| 660 | T/S @ R.O. | 54+48.61 | 39.18, R | • 752.15 |
| 661 | T/S @ L.L. | 54+38.19 | 39.01, R | 752.81 |
| 662 | T/S @ L.L. | 54+33.19 | 38.93, R | 752.89 |
| 663 | T/S @ L.L. | 54+33.22 | 33.93, R | 752.81 |
| 664 | T/S @ R.O. | 54+76.01 | 34.14, R | • 752.15 |
| 665 | T/S @ L.L. | 54+86.02 | 34.00, R | 752.23 |
| 666 | T/S @ R.O. | 54+85.98 | 20.92, R | • 752.09 |
| 667 | T/S @ R.O. | 54+90.97 | 19.02, R | • 752.08 |
| 668 | T/S @ L.L. | 54+91.02 | 33.93, R | 752.28 |
| 669 | T/S @ L.L. | 54+91.04 | 38.93, R | 752.36 |
| 670 | T/S @ L.L. | 54+86.04 | 39.00, R | 752.28 |
| 671 | T/S @ R.O. | 54+75.53 | 39.15, R | • 752.16 |
| 672 | T/C @ S.P. | 54+25.02 | 18.50, L | 752.88 |
| 673 | T/C @ S.P., R.O. | 54+45.01 | 39.06, L | • 751.86 |
| 674 | T/C @ M.E. | 54+44.76 | 48.21, L | 752.38 |
| 675 | T/C @ M.E. | 54+71.54 | 67.57, L | 752.35 |
| 676 | T/C @ S.P., R.O. | 54+72.40 | 37.92, L | • 751.81 |
| 677 | T/C @ S.P. | 54+92.39 | 18.50, L | 752.57 |
| 679 | T/C @ S.P., R.O. | 54+48.61 | 38.49, R | • 752.16 |
| 680 | T/C @ M.E. | 54+48.61 | 43.62, R | 752.62 |

*SEE GRADING NOTE

| GRADING POINTS | | | | |
|---|---|---|---|---|
| POINT | DESCRIPTION | STATION | OFFSET | ELEVATION |
| 681 | T/C @ M.E. | 54+75.53 | 43.62, R | 752.56 |
| 682 | T/C @ S.P., R.O. | 54+75.53 | 38.50, R | •752.17 |
| 683 | T/C @ S.P. | 54+95.53 | 18.50, R | 752.56 |
| 684 | T/C @ C.B. | 54+40.28 | 25.57, L | 752.32 |
| 685 | T/C @ C.B. | 54+72.22 | 44.01, L | 752.27 |

*SEE GRADING NOTE

## GRADING TABLE LEGEND

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RAMP OPENING = TOP OF CURB WITH CURB CUT FOR ADA RAMP. ADD 0.50' TO GET FULL HEIGHT CURB FOR STRINGING/STAKING PURPOSES.

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PLAN DATE: JUNE 2019
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COURT STREET REHABILITATION
LAFAYETTE STREET AND VERNON AVENUE
INTERSECTION GRADING SHEET

REV:

SHT# 58 OF 100

JOB No: 18C0137

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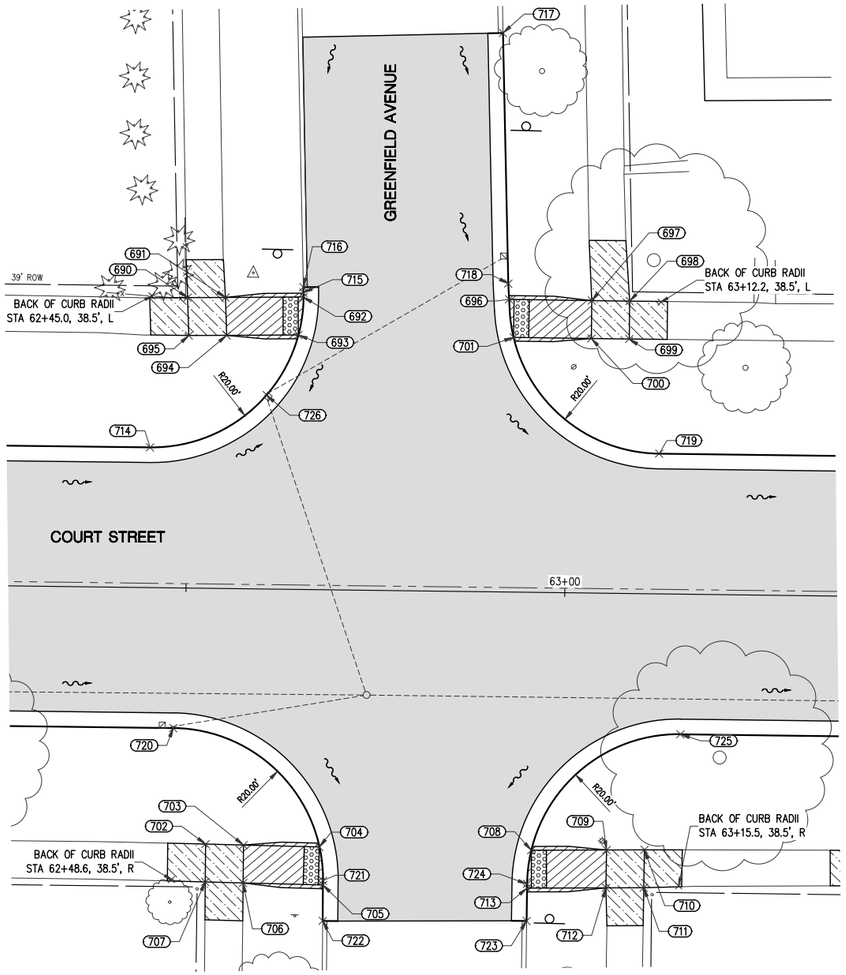


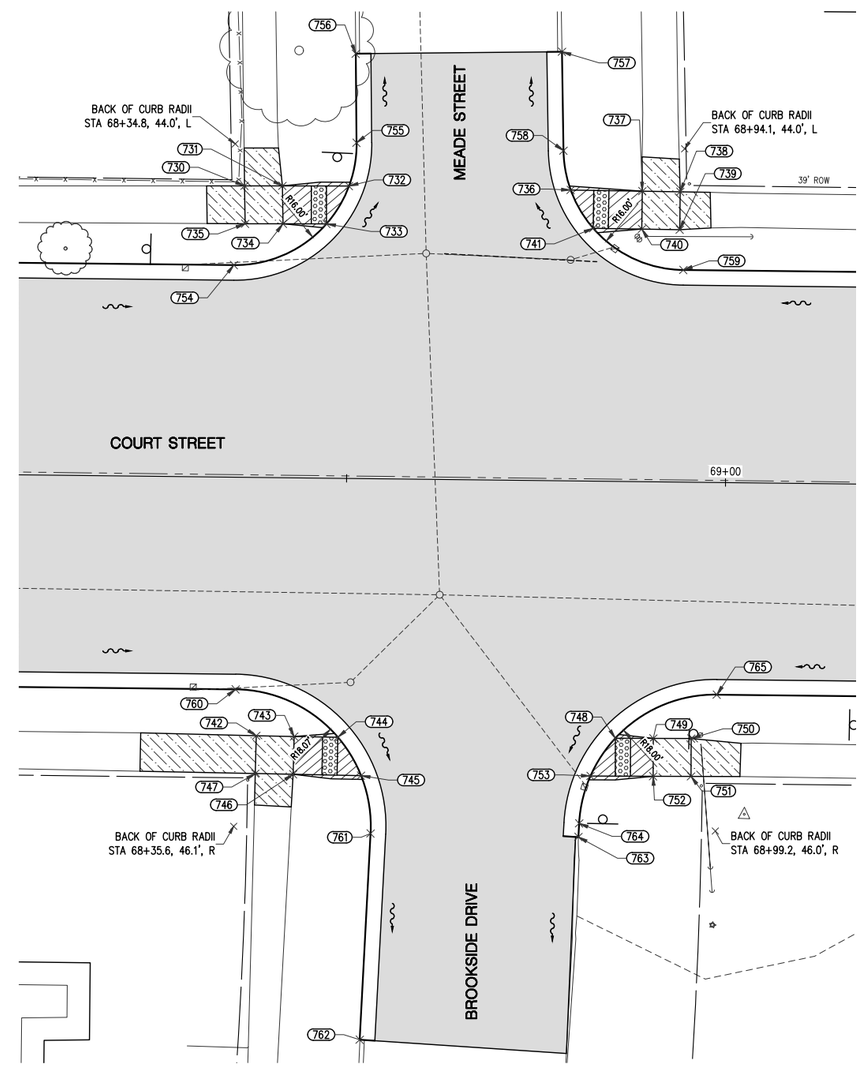

| GRADING POINTS | | | | |
|---|---|---|---|---|
| POINT | DESCRIPTION | STATION | OFFSET | ELEVATION |
| 730 | T/S @ L.L. | 68+36.10 | 38.45, L | 743.16 |
| 731 | T/S @ L.L. | 68+41.10 | 38.51, L | 743.14 |
| 732 | T/S @ R.O. | 68+49.89 | 38.60, L | * 742.74 |
| 733 | T/S @ R.O. | 68+46.96 | 33.57, L | * 742.71 |
| 734 | T/S @ L.L. | 68+41.23 | 33.51, L | 743.11 |
| 735 | T/S @ L.L. | 68+36.23 | 33.45, L | 743.14 |
| 736 | T/S @ R.O. | 68+79.14 | 38.38, L | * 742.89 |
| 737 | T/S @ L.L. | 68+88.60 | 38.33, L | 743.23 |
| 738 | T/S @ L.L. | 68+93.60 | 38.30, L | 743.31 |
| 739 | T/S @ L.L. | 68+93.59 | 33.30, L | 743.29 |
| 740 | T/S @ L.L. | 68+88.59 | 33.33, L | 743.20 |
| 741 | T/S @ R.O. | 68+82.17 | 33.36, L | * 742.95 |
| 742 | T/S @ L.L. | 68+38.45 | 34.08, R | 743.17 |
| 743 | T/S @ L.L. | 68+43.45 | 34.12, R | 743.12 |
| 744 | T/S @ R.O. | 68+49.21 | 34.17, R | * 742.74 |

*SEE GRADING NOTE

| GRADING POINTS | | | | |
|---|---|---|---|---|
| POINT | DESCRIPTION | STATION | OFFSET | ELEVATION |
| 745 | T/S @ R.O. | 68+52.32 | 39.20, R | * 742.66 |
| 746 | T/S @ L.L. | 68+43.38 | 39.12, R | 743.15 |
| 747 | T/S @ L.L. | 68+38.38 | 39.08, R | 743.20 |
| 748 | T/S @ R.O. | 68+85.83 | 33.90, R | * 742.81 |
| 749 | T/S @ L.L. | 68+90.83 | 33.86, R | 743.22 |
| 750 | T/S @ L.L. | 68+95.83 | 33.82, R | 743.32 |
| 751 | T/S @ L.L. | 68+95.87 | 38.82, R | 743.23 |
| 752 | T/S @ L.L. | 68+90.87 | 38.86, R | 743.13 |
| 753 | T/S @ R.O. | 68+82.60 | 38.92, R | * 742.68 |
| 754 | T/C @ S.P. | 68+34.82 | 27.99, L | 743.41 |
| 755 | T/C @ S.P. | 68+50.82 | 44.31, L | 743.18 |
| 756 | T/C @ M.E. | 68+50.58 | 56.05, L | 743.09 |
| 757 | T/C @ M.E. | 68+77.79 | 56.62, L | 743.22 |
| 758 | T/C @ S.P. | 68+78.13 | 43.57, L | 743.34 |
| 759 | T/C @ S.P. | 68+94.13 | 27.99, L | 743.59 |

*SEE GRADING NOTE

| GRADING POINTS | | | | |
|---|---|---|---|---|
| POINT | DESCRIPTION | STATION | OFFSET | ELEVATION |
| 760 | T/C @ S.P. | 68+35.64 | 28.00, R | 743.42 |
| 761 | T/C @ S.P. | 68+53.67 | 46.82, R | 743.07 |
| 762 | T/C @ M.E. | 68+52.54 | 74.05, R | 742.78 |
| 763 | T/C @ M.E. | 68+81.09 | 46.97, R | 743.02 |
| 764 | T/C @ S.P. | 68+81.17 | 45.18, R | 743.05 |
| 765 | T/C @ S.P. | 68+99.16 | 28.00, R | 743.62 |




| GRADING POINTS | | | | |
|---|---|---|---|---|
| POINT | DESCRIPTION | STATION | OFFSET | ELEVATION |
| 690 | T/S @ L.L. | 62+49.73 | 38.33, L | 749.37 |
| 691 | T/S @ L.L. | 62+54.73 | 38.42, L | 749.32 |
| 692 | T/S @ R.O. | 62+65.03 | 38.59, L | * 749.11 |
| 693 | T/S @ R.O. | 62+64.42 | 33.58, L | * 749.09 |
| 694 | T/S @ L.L. | 62+54.96 | 33.42, L | 749.30 |
| 695 | T/S @ L.L. | 62+49.96 | 33.33, L | 749.35 |
| 696 | T/S @ R.O. | 62+92.16 | 38.62, L | * 749.09 |
| 697 | T/S @ L.L. | 63+03.07 | 38.59, L | 749.20 |
| 698 | T/S @ L.L. | 63+08.08 | 38.58, L | 749.11 |
| 699 | T/S @ L.L. | 63+08.08 | 33.58, L | 749.03 |
| 700 | T/S @ L.L. | 63+03.08 | 33.59, L | 749.12 |
| 701 | T/S @ R.O. | 62+92.82 | 33.62, L | * 749.00 |
| 702 | T/S @ L.L. | 62+53.00 | 33.75, R | 748.75 |
| 703 | T/S @ L.L. | 62+58.00 | 33.81, R | 748.68 |
| 704 | T/S @ R.O. | 62+68.03 | 33.94, R | * 748.19 |

*SEE GRADING NOTE

| GRADING POINTS | | | | |
|---|---|---|---|---|
| POINT | DESCRIPTION | STATION | OFFSET | ELEVATION |
| 705 | T/S @ R.O. | 62+68.55 | 38.95, R | * 748.05 |
| 706 | T/S @ L.L. | 62+58.02 | 38.81, R | 748.75 |
| 707 | T/S @ L.L. | 62+53.02 | 38.75, R | 748.83 |
| 708 | T/S @ R.O. | 62+95.99 | 34.04, R | * 748.04 |
| 709 | T/S @ L.L. | 63+05.92 | 33.88, R | 748.14 |
| 710 | T/S @ L.L. | 63+10.92 | 33.80, R | 748.16 |
| 711 | T/S @ L.L. | 63+10.90 | 38.80, R | 748.20 |
| 712 | T/S @ L.L. | 63+05.90 | 38.88, R | 748.17 |
| 713 | T/S @ R.O. | 62+95.49 | 39.05, R | * 747.97 |
| 714 | T/C @ S.P. | 62+45.03 | 18.50, L | 749.92 |
| 715 | T/C @ S.P. | 62+65.02 | 39.16, L | 749.62 |
| 716 | T/C @ M.E. | 62+65.00 | 39.88, L | 749.53 |
| 717 | T/C @ M.E. | 62+90.93 | 73.76, L | 750.23 |
| 718 | T/C @ S.P. | 62+92.03 | 40.69, L | 749.63 |
| 719 | T/C @ S.P. | 63+12.22 | 18.50, L | 748.97 |

*SEE GRADING NOTE

| GRADING POINTS | | | | |
|---|---|---|---|---|
| POINT | DESCRIPTION | STATION | OFFSET | ELEVATION |
| 720 | T/C @ S.P. | 62+48.55 | 18.50, R | 749.87 |
| 721 | T/C @ S.P., R.O. | 62+68.55 | 38.39, R | * 748.07 |
| 722 | T/C @ M.E. | 62+68.58 | 43.70, R | 748.42 |
| 723 | T/C @ M.E. | 62+95.49 | 43.38, R | 748.41 |
| 724 | T/C @ S.P., R.O. | 62+95.49 | 38.50, R | * 747.97 |
| 725 | T/C @ S.P. | 63+15.49 | 18.50, R | 748.92 |
| 726 | T/C @ C.B. | 62+60.32 | 25.60, L | 749.55 |

*SEE GRADING NOTE

## GRADING TABLE LEGEND

S.P. – SPRING POINT
M.E. – MATCH EXISTING
T/C – TOP OF CURB
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C.B. – CATCH BASIN
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| 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"=10'


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F: (810) 341-7573
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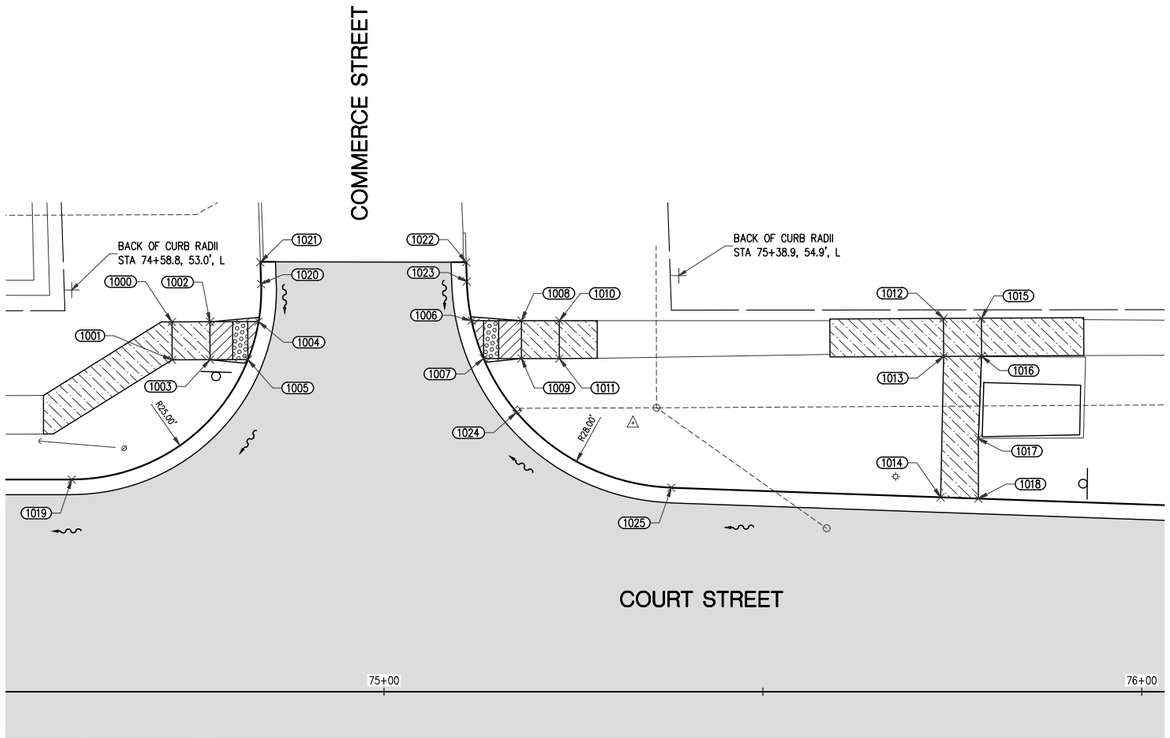
540 S. Saginaw St., Suite 200
Flint, MI 48502

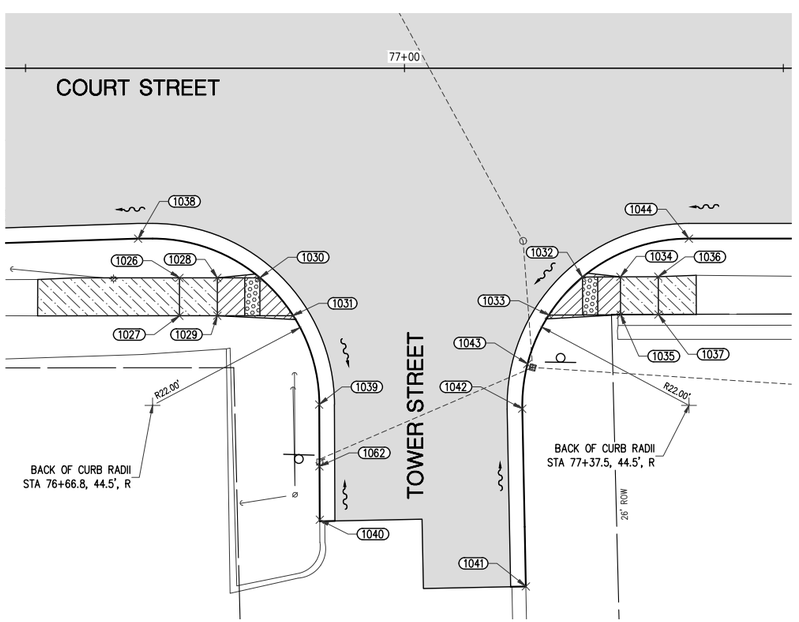

PREPARED FOR
# CITY OF FLINT
# COURT STREET REHABILITATION
GREENFIELD AVE, MEADE ST, AND BROOKSIDE DR
INTERSECTION GRADING SHEET

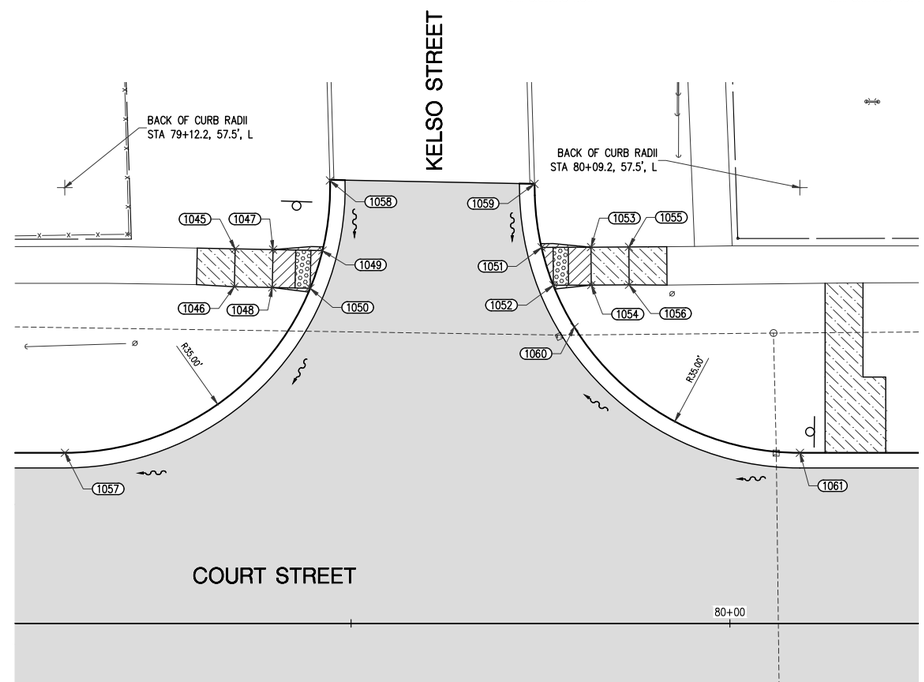
R:\Projects\18C0137\Dwg\Construction Drawings\XX-18C0137-INT GRADING 2.dwg
PLOTTED: 6/6/2019 9:00 AM

REV:

SHT# 59 OF 100
JOB No: 18C0137




| GRADING POINTS | | | | |
|---|---|---|---|---|
| POINT | DESCRIPTION | STATION | OFFSET | ELEVATION |
| 1000 | T/S @ L.L. | 74+72.02 | 48.78, L | 747.52 |
| 1001 | T/S @ L.L. | 74+72.04 | 43.78, L | 747.47 |
| 1002 | T/S @ L.L. | 74+77.02 | 48.81, L | 747.52 |
| 1003 | T/S @ L.L. | 74+77.04 | 43.81, L | 747.47 |
| 1004 | T/S @ R.O. | 74+83.43 | 48.83, L | * 747.37 |
| 1005 | T/S @ R.O. | 74+82.04 | 43.83, L | * 747.30 |
| 1006 | T/S @ R.O. | 75+11.55 | 48.96, L | * 747.39 |
| 1007 | T/S @ R.O. | 75+13.14 | 43.96, L | * 747.31 |
| 1008 | T/S @ L.L. | 75+18.14 | 48.96, L | 747.57 |
| 1009 | T/S @ L.L. | 75+18.14 | 43.96, L | 747.51 |
| 1010 | T/S @ L.L. | 75+23.14 | 48.96, L | 747.65 |
| 1011 | T/S @ L.L. | 75+23.14 | 43.96, L | 747.58 |
| 1012 | T/S @ L.L. | 75+73.84 | 49.25, L | 748.06 |
| 1013 | T/S @ L.L | 75+73.86 | 44.25, L | 748.00 |
| 1014 | T/S & T/C | 75+73.46 | 25.65, L | 747.93 |
| 1015 | T/S @ L.L. | 75+78.84 | 49.27, L | 748.14 |
| 1016 | T/S @ L.L. | 75+78.86 | 44.28, L | 748.09 |
| 1017 | T/S @ M.E. | 75+78.42 | 33.42, L | 748.30 |
| 1018 | T/S & T/C | 75+78.45 | 25.48, L | 747.95 |
| 1019 | T/C @ S.P. | 74+58.78 | 28.00, L | 747.38 |
| 1020 | T/C @ S.P. | 74+83.77 | 53.79, L | 747.94 |

*SEE GRADING NOTE

| GRADING POINTS | | | | |
|---|---|---|---|---|
| POINT | DESCRIPTION | STATION | OFFSET | ELEVATION |
| 1021 | T/C @ M.E. | 74+83.68 | 56.65, L | 747.98 |
| 1022 | T/C @ M.E. | 75+10.85 | 56.67, L | 748.00 |
| 1023 | T/C @ S.P. | 75+10.93 | 54.10, L | 747.98 |
| 1024 | T/C @ C.B. | 75+17.49 | 36.87, L | 747.67 |
| 1025 | T/C @ S.P. | 75+37.92 | 26.91, L | 747.77 |
| 1026 | T/S @ L.L. | 76+70.31 | 27.68, R | 748.10 |
| 1027 | T/S @ L.L. | 76+70.31 | 32.68, R | 748.19 |
| 1028 | T/S @ L.L. | 76+75.31 | 27.67, R | 748.09 |
| 1029 | T/S @ L.L. | 76+75.31 | 32.67, R | 748.17 |
| 1030 | T/S @ R.O. | 76+80.92 | 27.67, R | * 747.97 |
| 1031 | T/S @ R.O. | 76+85.30 | 32.67, R | * 748.04 |
| 1032 | T/S @ R.O. | 77+23.50 | 27.57, R | * 748.08 |
| 1033 | T/S @ R.O. | 77+19.05 | 32.59, R | * 748.02 |
| 1034 | T/S @ L.L. | 77+28.50 | 27.55, R | 748.45 |
| 1035 | T/S @ L.L. | 77+28.52 | 32.55, R | 748.47 |
| 1036 | T/S @ L.L. | 77+33.50 | 27.53, R | 748.53 |
| 1037 | T/S @ L.L. | 77+33.52 | 32.53, R | 748.55 |
| 1038 | T/C @ S.P. | 76+64.85 | 22.50, R | 748.31 |
| 1039 | T/C @ S.P. | 76+88.75 | 44.39, R | 748.66 |
| 1040 | T/C @ M.E. | 76+88.83 | 59.59, R | 748.80 |
| 1041 | T/C @ M.E. | 77+16.03 | 68.38, R | 748.65 |

*SEE GRADING NOTE

| GRADING POINTS | | | | |
|---|---|---|---|---|
| POINT | DESCRIPTION | STATION | OFFSET | ELEVATION |
| 1042 | T/C @ S.P. | 77+15.55 | 44.94, R | 748.55 |
| 1043 | T/C @ C.B. | 77+16.23 | 39.04, R | 748.47 |
| 1044 | T/C @ S.P. | 77+37.55 | 22.50, R | 748.70 |
| 1045 | T/S @ L.L. | 79+34.71 | 49.42, L | 749.57 |
| 1046 | T/S @ L.L. | 79+34.60 | 44.42, L | 749.53 |
| 1047 | T/S @ L.L. | 79+39.70 | 49.32, L | 749.50 |
| 1048 | T/S @ L.L. | 79+39.60 | 44.32, L | 749.45 |
| 1049 | T/S @ R.O. | 79+46.22 | 49.18, L | * 749.17 |
| 1050 | T/S @ R.O. | 79+44.60 | 44.22, L | * 749.15 |
| 1051 | T/S @ R.O. | 79+75.15 | 49.60, L | * 749.18 |
| 1052 | T/S @ R.O. | 79+76.70 | 44.61, L | * 749.15 |
| 1053 | T/S @ L.L. | 79+81.67 | 49.64, L | 749.60 |
| 1054 | T/S @ L.L. | 79+81.70 | 44.64, L | 749.53 |
| 1055 | T/S @ L.L. | 79+86.67 | 49.67, L | 749.63 |
| 1056 | T/S @ L.L. | 79+86.70 | 44.67, L | 749.55 |
| 1057 | T/C @ S.P. | 79+12.22 | 22.50, L | 749.50 |
| 1058 | T/C @ S.P., M.E. | 79+47.21 | 58.43, L | 749.71 |
| 1059 | T/C @ S.P., M.E. | 79+74.21 | 57.99, L | 749.72 |
| 1060 | T/C @ C.B. | 79+79.47 | 39.10, L | 749.62 |
| 1061 | T/C @ S.P. | 80+09.24 | 22.50, L | 750.13 |
| 1062 | T/C @ C.B. | 76+88.79 | 52.54, R | 748.59 |

*SEE GRADING NOTE

## GRADING TABLE LEGEND

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BIDDING DOCUMENTS

| DATE | DESCRIPTION |
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PLAN DATE: JUNE 2019
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# COURT STREET REHABILITATION
COMMERCE ST, TOWER ST AND KELSO ST
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REV:

SHT# 60 OF 100

JOB No: 18C0137

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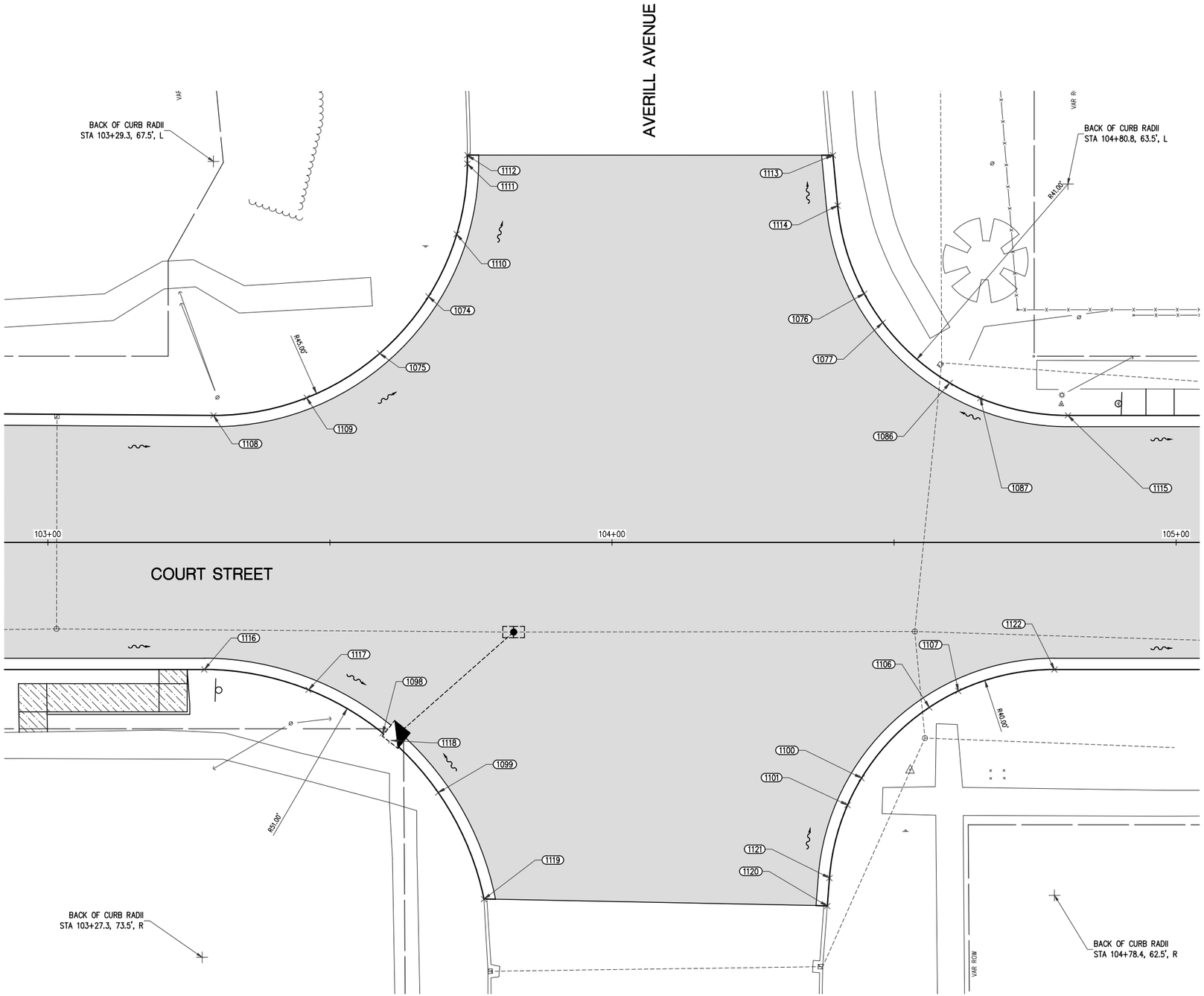


| GRADING POINTS | | | | |
|---|---|---|---|---|
| POINT | DESCRIPTION | STATION | OFFSET | ELEVATION |
| 1074 | T/S @ R.O. | 103+67.47 | 43.59, L | * 756.39 |
| 1075 | T/S @ R.O. | 103+58.83 | 33.51, L | * 756.66 |
| 1076 | T/S @ R.O. | 104+44.70 | 44.10, L | * 755.78 |
| 1077 | T/S @ R.O. | 104+47.97 | 38.96, L | * 755.85 |
| 1086 | T/S @ R.O. | 104+59.86 | 28.26, L | * 756.04 |
| 1087 | T/S @ R.O. | 104+65.29 | 25.55, L | * 756.11 |
| 1098 | T/S @ R.O. | 103+59.36 | 33.80, R | * 757.17 |
| 1099 | T/S @ R.O. | 103+69.18 | 44.33, R | * 757.39 |
| 1100 | T/S @ R.O. | 104+44.24 | 41.74, R | * 757.18 |
| 1101 | T/S @ R.O. | 104+41.76 | 46.52, R | * 757.29 |
| 1106 | T/S @ R.O. | 104+56.26 | 29.22, R | * ??? |
| 1107 | T/S @ R.O. | 104+61.40 | 26.31, R | * 756.69 |
| 1108 | T/C @ S.P. | 103+29.35 | 22.50, L | 757.82 |
| 1109 | T/C | 103+45.86 | 25.64, L | 757.47 |
| 1110 | T/C | 103+72.46 | 54.62, L | 756.40 |
| 1111 | T/C @ S.P. | 103+74.34 | 67.08, L | 755.89 |
| 1112 | T/C @ M.E. | 103+74.36 | 68.60, L | * 755.83 |
| 1113 | T/C @ M.E. | 104+39.16 | 68.61, L | * 755.99 |
| 1114 | T/C @ S.P. | 104+39.99 | 59.70, L | 756.09 |
| 1115 | T/C @ S.P. | 104+80.81 | 22.50, L | 756.80 |
| 1116 | T/C @ S.P. | 103+27.74 | 22.50, R | 757.84 |
| 1117 | T/C | 103+46.20 | 26.11, R | 757.75 |
| 1118 | T/C @ C.B., R.O. | 103+60.91 | 35.08, R | 757.15 |
| 1119 | T/C @ S.P., M.E. | 103+77.29 | 63.19, R | 758.89 |
| 1120 | T/C @ M.E. | 104+38.16 | 64.41, R | 758.38 |
| 1121 | T/C @ S.P. | 104+38.55 | 59.43, R | 758.23 |
| 1122 | T/C @ S.P. | 104+78.43 | 22.50, R | 756.83 |

*SEE GRADING NOTE

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AVERILL AVENUE
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REV:

SHT# 61 OF 100
JOB No: 18C0137

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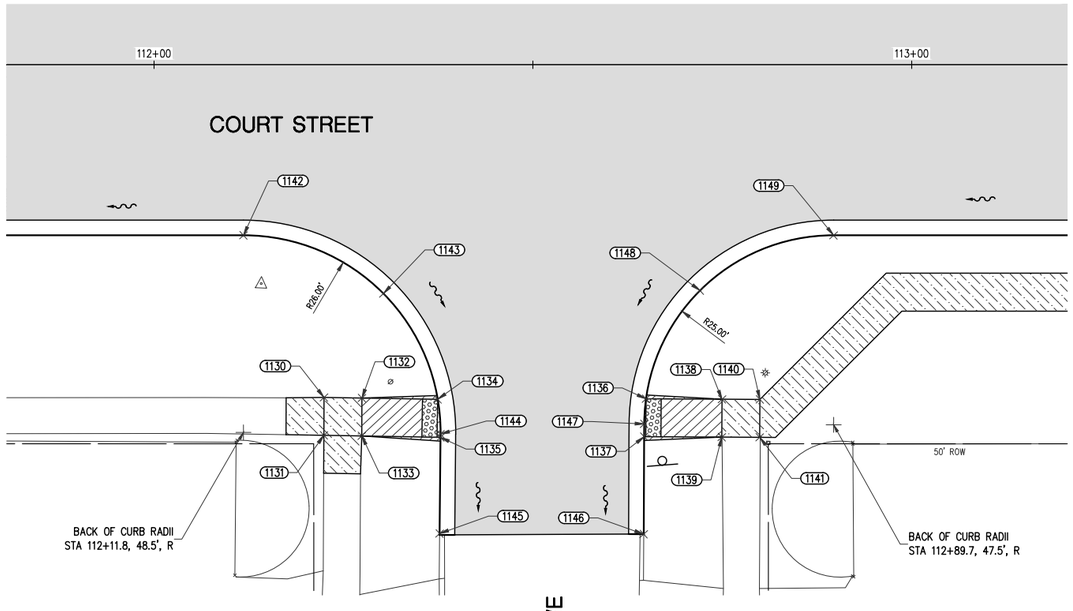
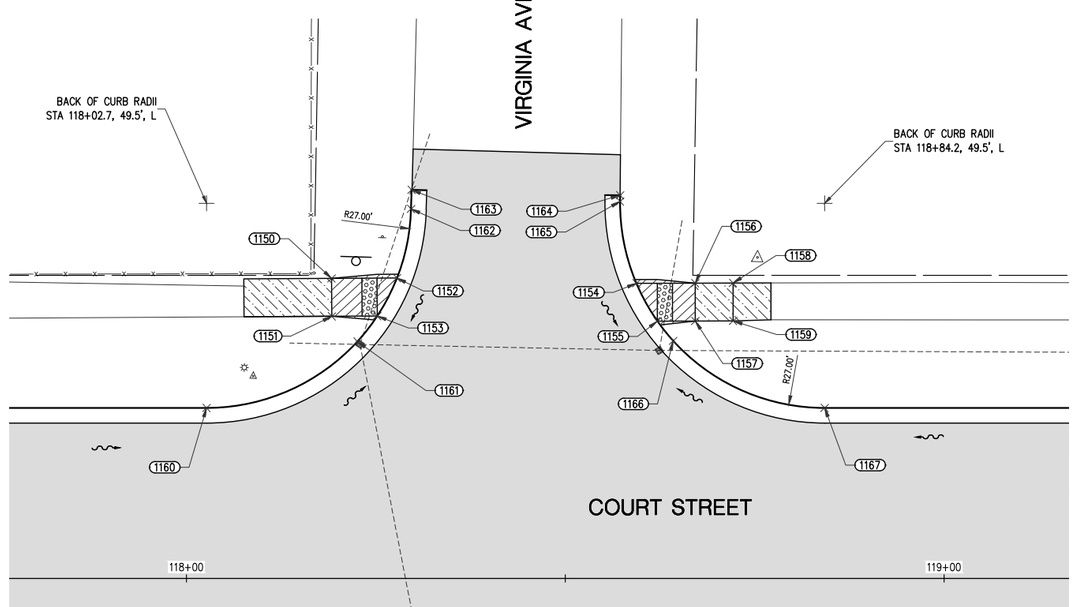



| GRADING POINTS | | | | |
|---|---|---|---|---|
| POINT | DESCRIPTION | STATION | OFFSET | ELEVATION |
| 1130 | T/S @ L.L. | 112+22.43 | 43.89, R | 761.47 |
| 1131 | T/S @ L.L. | 112+22.41 | 48.89, R | 761.44 |
| 1132 | T/S @ L.L. | 112+27.43 | 43.98, R | 761.40 |
| 1133 | T/S @ L.L. | 112+27.41 | 48.98, R | 761.37 |
| 1134 | T/S @ R.O. | 112+37.43 | 44.15, R | * 761.04 |
| 1135 | T/S @ R.O. | 112+37.79 | 49.15, R | * 761.01 |
| 1136 | T/S @ R.O. | 112+64.92 | 44.07, R | * 761.82 |
| 1137 | T/S @ R.O. | 112+64.68 | 49.07, R | * 761.70 |
| 1138 | T/S @ L.L. | 112+74.96 | 44.13, R | 762.14 |
| 1139 | T/S @ L.L. | 112+74.93 | 49.13, R | 762.20 |
| 1140 | T/S @ L.L. | 112+79.96 | 44.16, R | 762.14 |
| 1141 | T/S @ L.L. | 112+79.93 | 49.16, R | 762.15 |
| 1142 | T/C @ S.P. | 112+11.80 | 22.50, R | 761.81 |
| 1143 | T/C | 112+30.26 | 30.19, R | 761.66 |
| 1144 | T/C @ S.P., R.O. | 112+37.80 | 48.72, R | * 761.01 |
| 1145 | T/C @ M.E. | 112+37.69 | 61.85, R | 761.42 |
| 1146 | T/C @ M.E. | 112+64.62 | 61.93, R | 761.94 |
| 1147 | T/C @ S.P., R.O. | 112+64.68 | 47.39, R | * 761.74 |
| 1148 | T/C | 112+72.05 | 29.78, R | 762.69 |
| 1149 | T/C @ S.P. | 112+89.68 | 22.50, R | 763.14 |

*SEE GRADING NOTE

BURLINGTON DRIVE

VIRGINIA AVENUE




| GRADING POINTS | | | | |
|---|---|---|---|---|
| POINT | DESCRIPTION | STATION | OFFSET | ELEVATION |
| 1150 | T/S @ L.L. | 118+19.16 | 39.59, L | 762.87 |
| 1151 | T/S @ L.L. | 118+19.19 | 34.59, L | 762.79 |
| 1152 | T/S @ R.O. | 118+27.79 | 39.64, L | * 762.81 |
| 1153 | T/S @ R.O. | 118+25.19 | 34.62, L | * 762.70 |
| 1154 | T/S @ R.O. | 118+59.38 | 38.94, L | * 762.78 |
| 1155 | T/S @ R.O. | 118+62.16 | 33.94, L | * 762.72 |
| 1156 | T/S @ L.L. | 118+67.15 | 38.96, L | 763.19 |
| 1157 | T/S @ L.L. | 118+67.16 | 33.96, L | 763.12 |
| 1158 | T/S @ L.L. | 118+72.15 | 38.97, L | 763.27 |
| 1159 | T/S @ L.L. | 118+72.16 | 33.97, L | 763.21 |
| 1160 | T/C @ S.P. | 118+02.66 | 22.50, L | 763.23 |
| 1161 | T/C @ C.B. | 118+22.56 | 31.26, L | 763.13 |
| 1162 | T/C @ S.P. | 118+29.65 | 48.75, L | 763.48 |
| 1163 | T/C | 118+29.72 | 51.27, L | 763.50 |
| 1164 | T/C | 118+57.24 | 50.56, L | 763.39 |
| 1165 | T/C @ S.P. | 118+57.23 | 49.75, L | 763.39 |
| 1166 | T/C @ C.B. | 118+64.24 | 31.35, L | 763.19 |
| 1167 | T/C @ S.P. | 118+84.23 | 22.50, L | 763.33 |

*SEE GRADING NOTE

## GRADING TABLE LEGEND

S.P. – SPRING POINT
M.E. – MATCH EXISTING
T/C – TOP OF CURB
T/S – TOP OF SIDEWALK
C.B. – CATCH BASIN
R.O. – RAMP OPENING
E/M – EDGE OF METAL
L.L. – LEVEL LANDING

## GRADING NOTE

RAMP OPENING = TOP OF CURB WITH CURB CUT FOR ADA RAMP. ADD 0.50' TO GET FULL HEIGHT CURB FOR STRINGING/STAKING PURPOSES.

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"=10'

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F: (810) 341-7573
www.rowepsc.com
The Rowe Building
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Flint, MI 48502

PREPARED FOR
CITY OF FLINT
COURT STREET REHABILITATION
BURLINGTON DRIVE AND VIRGINIA AVENUE
INTERSECTION GRADING SHEET

REV:

SHT# 62 OF 100

JOB No: 18C0137

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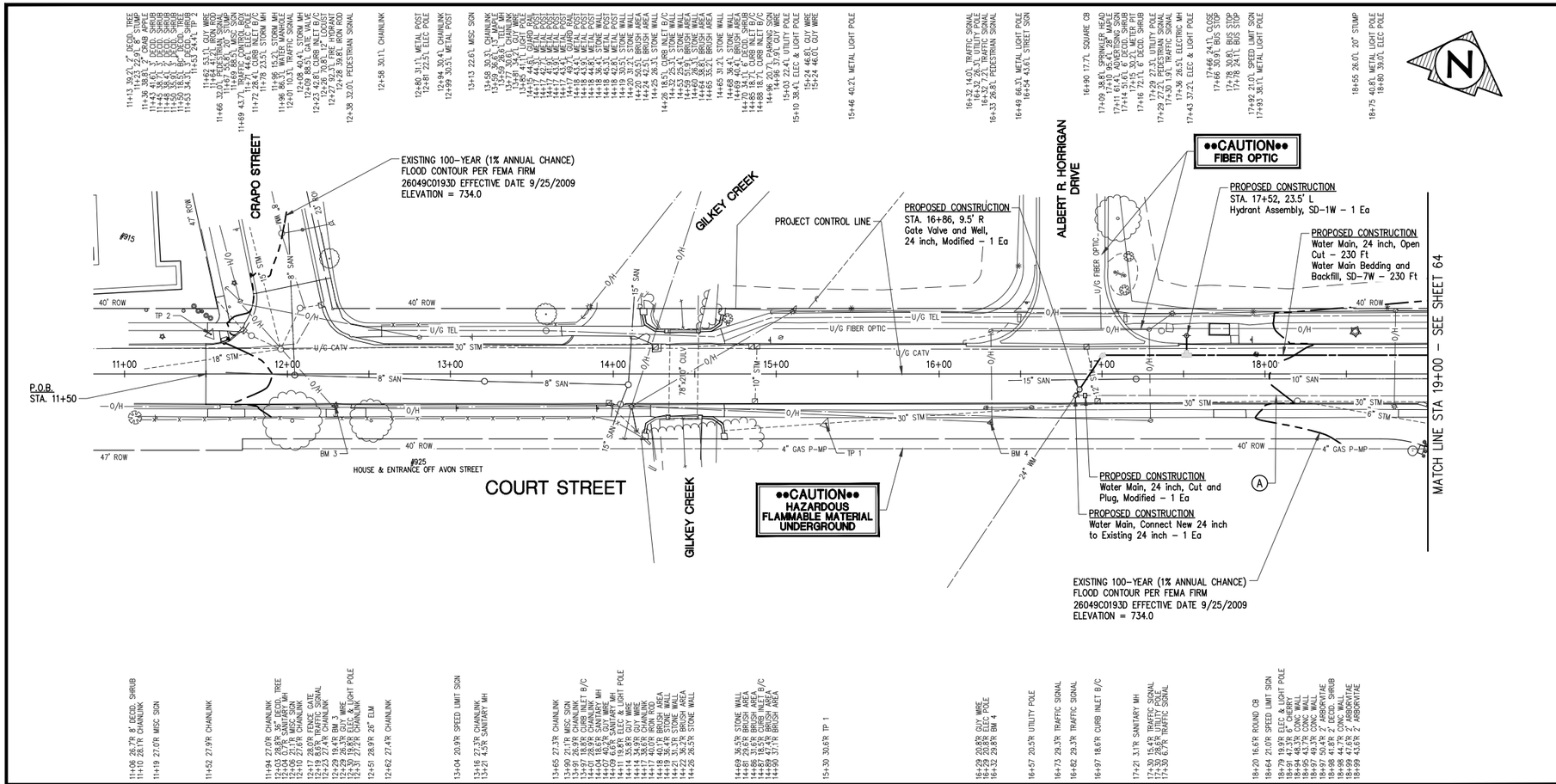


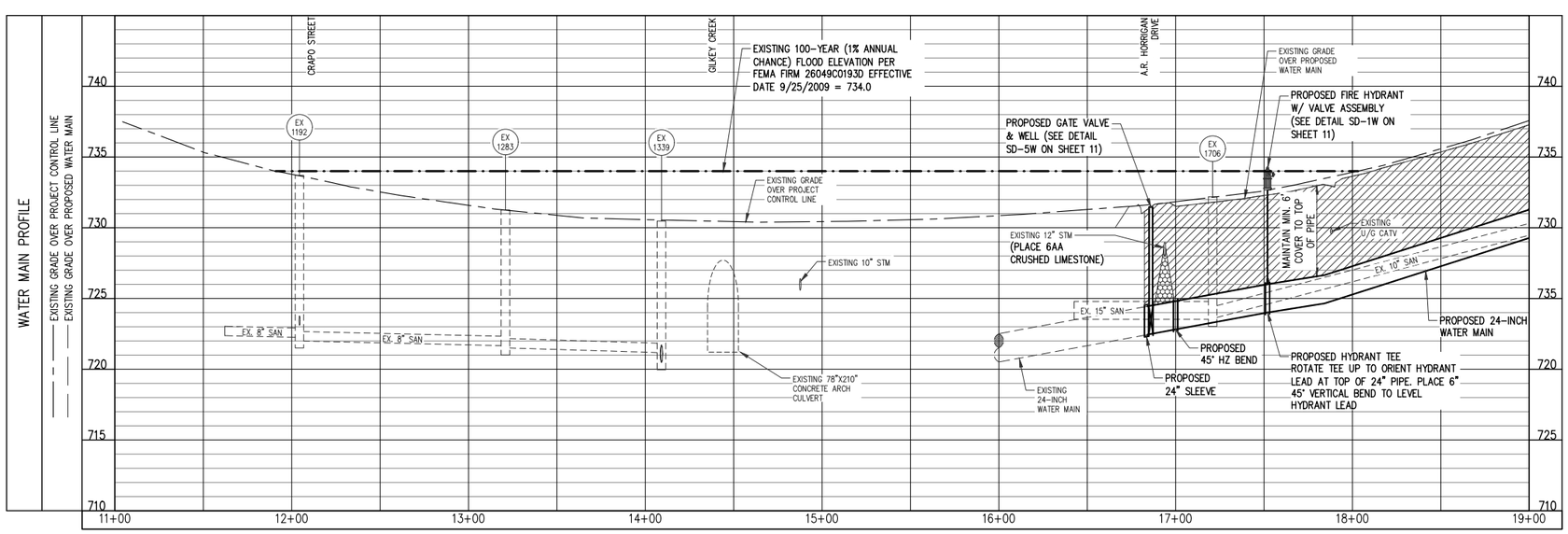


## SHEET QUANTITIES
## CATEGORY 3 - NON-PARTICIPATING

| DESCRIPTION | QUANTITY | UNITS |
|---|---|---|
| Abandon Water Main, 24 inch | 210 | Ft |
| Water Main Bedding and Backfill, SD-7W | 230 | Ft |
| Water Main, 24 inch, Open Cut | 230 | Ft |
| Gate Valve and Well, 24 inch, Modified | 1 | Ea |
| Hydrant Assembly, SD-1W | 1 | Ea |
| Water Main, 24 inch, Cut and Plug, Modified | 1 | Ea |
| Water Main, Connect New 24 inch to Existing 24 inch | 1 | Ea |

### 24" WATER MAIN FITTING TABLE

| STATION | OFFSET | FITTING |
|---|---|---|
| 16+83.7 | 13.2' R | 24" SLEEVE |
| 16+89.6 | 13.2' R | 24" CUT & PLUG |
| 17+00.2 | 11.5' L | 24" 45° HZ BEND |
| 17+51.9 | 11.5' L | 24" X 6" HYD TEE |

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

HOR: 0 40 ft 80 ft
VERT: 0 5 ft 10 ft

### 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

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PREPARED FOR
# CITY OF FLINT
# COURT STREET REHABILITATION
P.O.B. STA. 11+50 TO STA. 19+00
WATER MAIN PLAN AND PROFILE SHEET

REV:
SHT# 63 OF 100
JOB No: 18C0137

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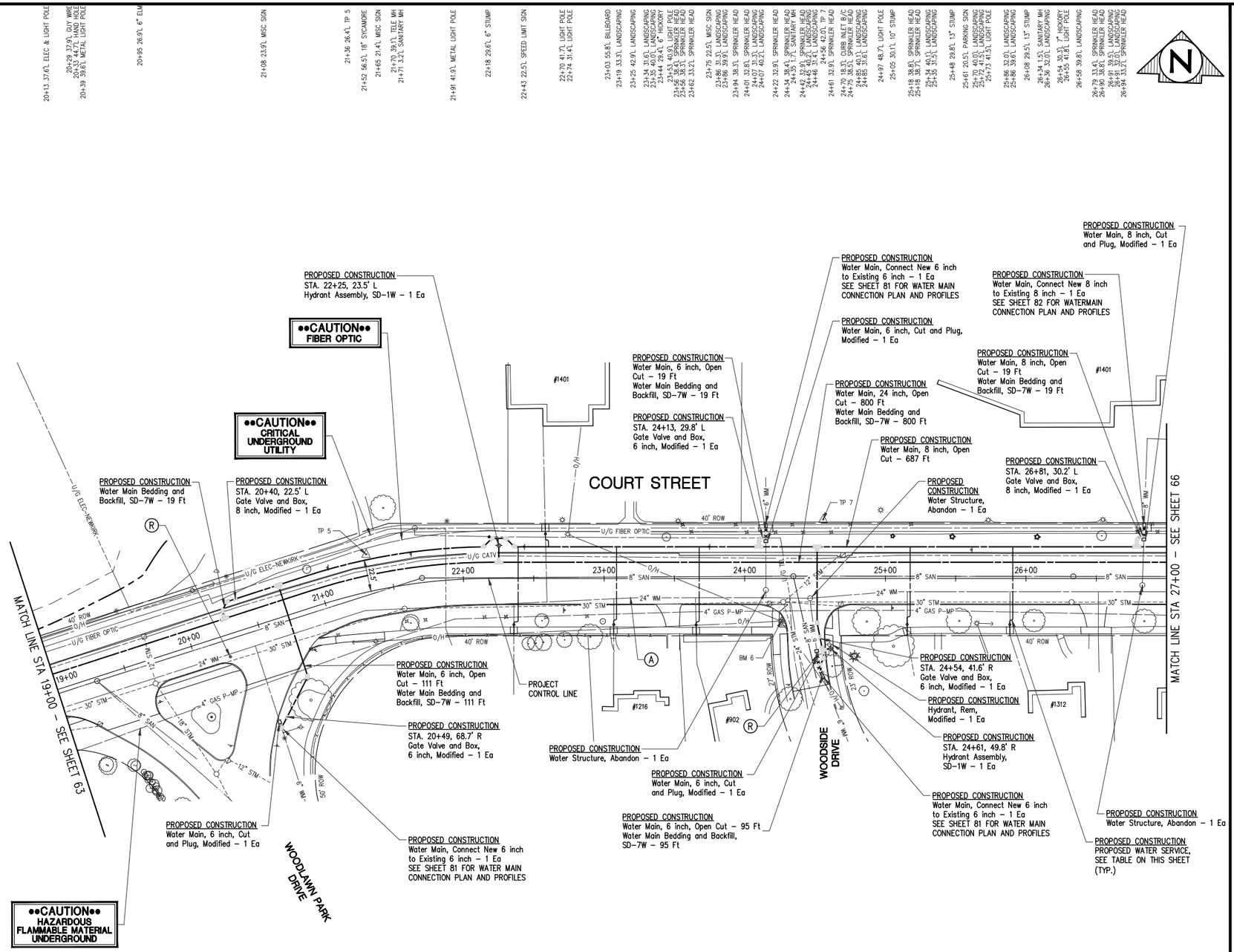


## SHEET QUANTITIES
## CATEGORY 3 - NON-PARTICIPATING

| DESCRIPTION | QUANTITY | UNITS |
|---|---|---|
| Abandon Water Main, 24 inch | 800 | Ft |
| Abandon Water Main, 6 inch | 40 | Ft |
| Abandon Water Main, 8 inch | 90 | Ft |
| Water Main Bedding and Backfill, SD-7W | 1063 | Ft |
| Water Main, 24 inch, Open Cut | 800 | Ft |
| Water Main, 6 inch, Open Cut | 225 | Ft |
| Water Main, 8 inch, Open Cut | 706 | Ft |
| Gate Valve and Box, 6 inch, Modified | 3 | Ea |
| Gate Valve and Box, 8 inch, Modified | 2 | Ea |
| Hydrant Assembly, SD-1W | 2 | Ea |
| Hydrant, Rem, Modified | 1 | Ea |
| Water Main, 6 inch, Cut and Plug, Modified | 3 | Ea |
| Water Main, 8 inch, Cut and Plug, Modified | 1 | Ea |
| Water Main, Connect New 6 inch to Existing 6 inch | 3 | Ea |
| Water Main, Connect New 8 inch to Existing 8 inch | 1 | Ea |
| Water Serv, 1 inch | 1 | Ea |
| Water Serv, Long, 1 inch | 5 | Ea |
| Water Structure, Abandon | 3 | Ea |

### 24" WATER MAIN FITTING TABLE

| STATION | OFFSET | FITTING |
|---|---|---|
| 20+28.6 | 11.5' L | 24" X 8" TEE |
| 22+25.2 | 11.5' L | 24" X 6" HYD TEE |

### WATER MAIN FITTING TABLE

| STATION | OFFSET | FITTING |
|---|---|---|
| 20+28.6 | 17.3' L | 8" 45° HZ BEND |
| 20+33.8 | 22.5' L | 8" 45° HZ BEND |
| 20+43.3 | 71.8' R | 6" CUT & PLUG |
| 20+43.3 | 74.8' R | 6" 45° HZ BEND |
| 20+72.2 | 45.9' R | 6" 45° HZ BEND |
| 20+72.2 | 22.5' L | 8" X 6" TEE |
| 22+14.5 | 22.5' L | 8" 45° BEND |
| 22+20.2 | 28.5' L | 8" 45° BEND |
| 22+30.2 | 28.5' L | 8" 45° BEND |
| 22+36.2 | 22.5' L | 8" 45° BEND |
| 24+10.1 | 27.3' L | 6" 45° HZ BEND |
| 24+10.1 | 22.5' L | 8" X 6" TEE |
| 24+15.0 | 38.7' L | 6" SLEEVE |
| 24+15.1 | 26.6' L | 6" CUT & PLUG |

### WATER MAIN FITTING TABLE

| STATION | OFFSET | FITTING |
|---|---|---|
| 24+15.2 | 32.4' L | 6" 45° HZ BEND |
| 24+51.2 | 51.5' R | 6" CUT & PLUG |
| 24+51.5 | 31.6' R | 6" 11.25° HZ BEND |
| 24+51.5 | 22.5' L | 8" X 6" TEE |
| 24+53.4 | 61.5' R | 6" 45° HZ BEND |
| 24+54.4 | 66.9' R | 6" 11.25° HZ BEND |
| 24+55.3 | 50.9' R | 6" X 6" HYD TEE |
| 24+56.0 | 70.8' R | 6" SLEEVE |
| 24+56.5 | 56.8' R | 6" 45° HZ BEND |
| 26+78.8 | 27.5' L | 8" 45° HZ BEND |
| 26+78.8 | 22.5' L | 8" X 8" TEE |
| 26+83.8 | 27.7' L | 8" CUT & PLUG |
| 26+84.1 | 32.8' L | 8" 45° HZ BEND |
| 26+84.2 | 39.2' L | 8" SLEEVE |

### 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) |
|---|---|---|---|---|---|---|---|
| 915 WOODLAWN PK | 22+39 | N | 1 | 25 | 45 | | 1 |
| 1401 E. COURT | 22+61 | N | 1 | | 20 | 1 | |
| 1216 E. COURT | 23+09 | N | 1 | 25 | 45 | | 1 |
| 902 WOODSIDE DR | 23+68 | N | 1 | 25 | 45 | | 1 |
| 1302 E. COURT | 25+18 | N | 1 | 25 | 45 | | 1 |
| 1312 E. COURT | 25+91 | N | 1 | 25 | 45 | | 1 |

NOTES:
1. 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.
2. (*) 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.

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'


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PREPARED FOR
# CITY OF FLINT
# COURT STREET REHABILITATION
STA. 19+00 TO STA. 27+00
WATER MAIN PLAN SHEET

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REV:

SHT# 64 OF 100
JOB No: 18C0137

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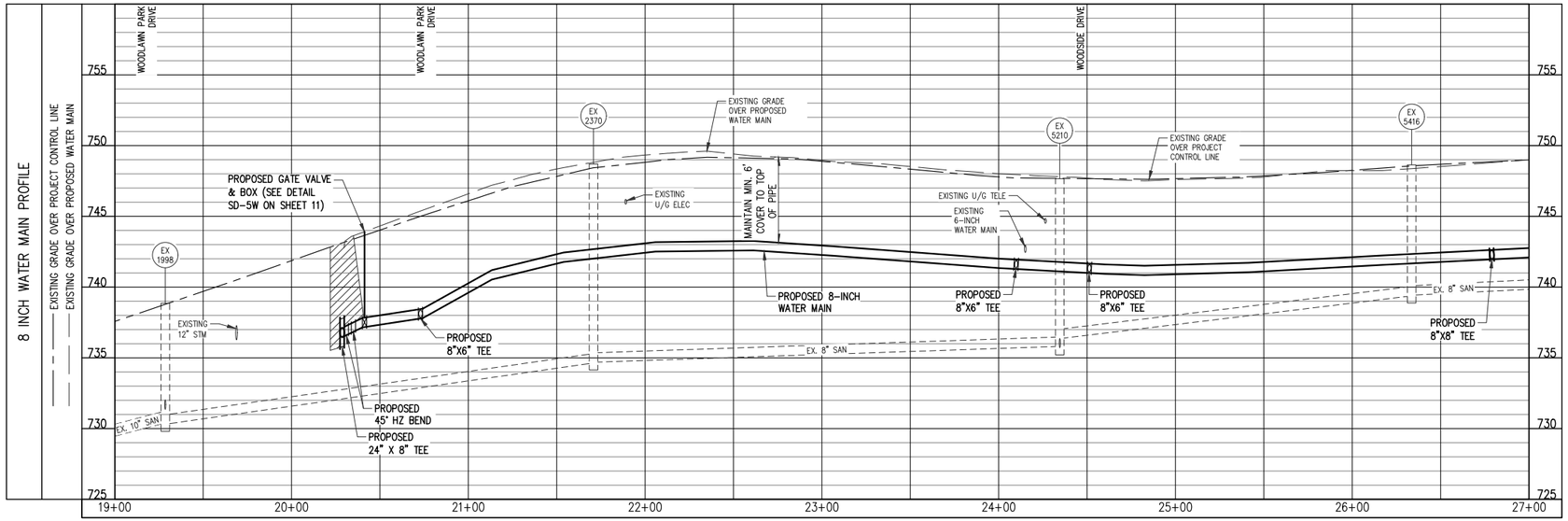


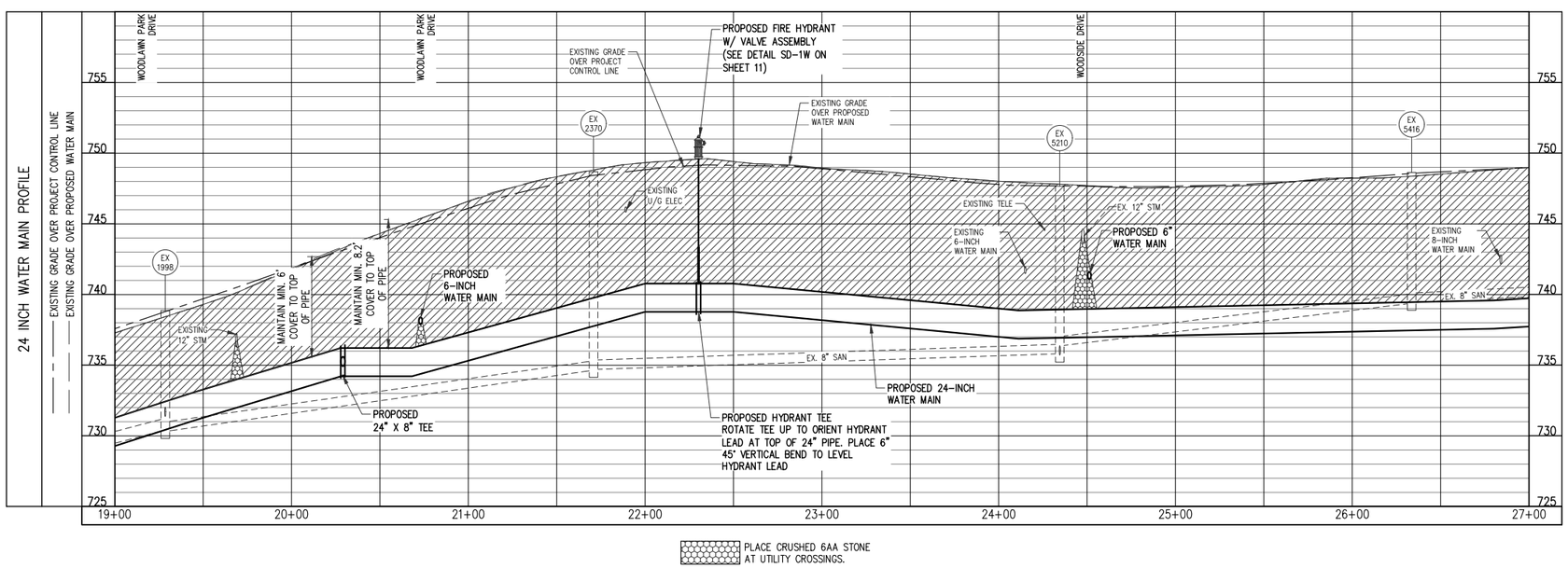


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HOR: 0 40 ft 80 ft
VERT: 0 5 ft 10 ft

**PLAN SUBMITTALS AND CHANGES**

BIDDING DOCUMENTS

| DATE | DESCRIPTION |
|---|---|
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COURT STREET REHABILITATION
STA. 19+00 TO STA. 27+00
WATER MAIN PROFILE SHEET

REV:

SHT# 65 OF 100

JOB No: 18C0137

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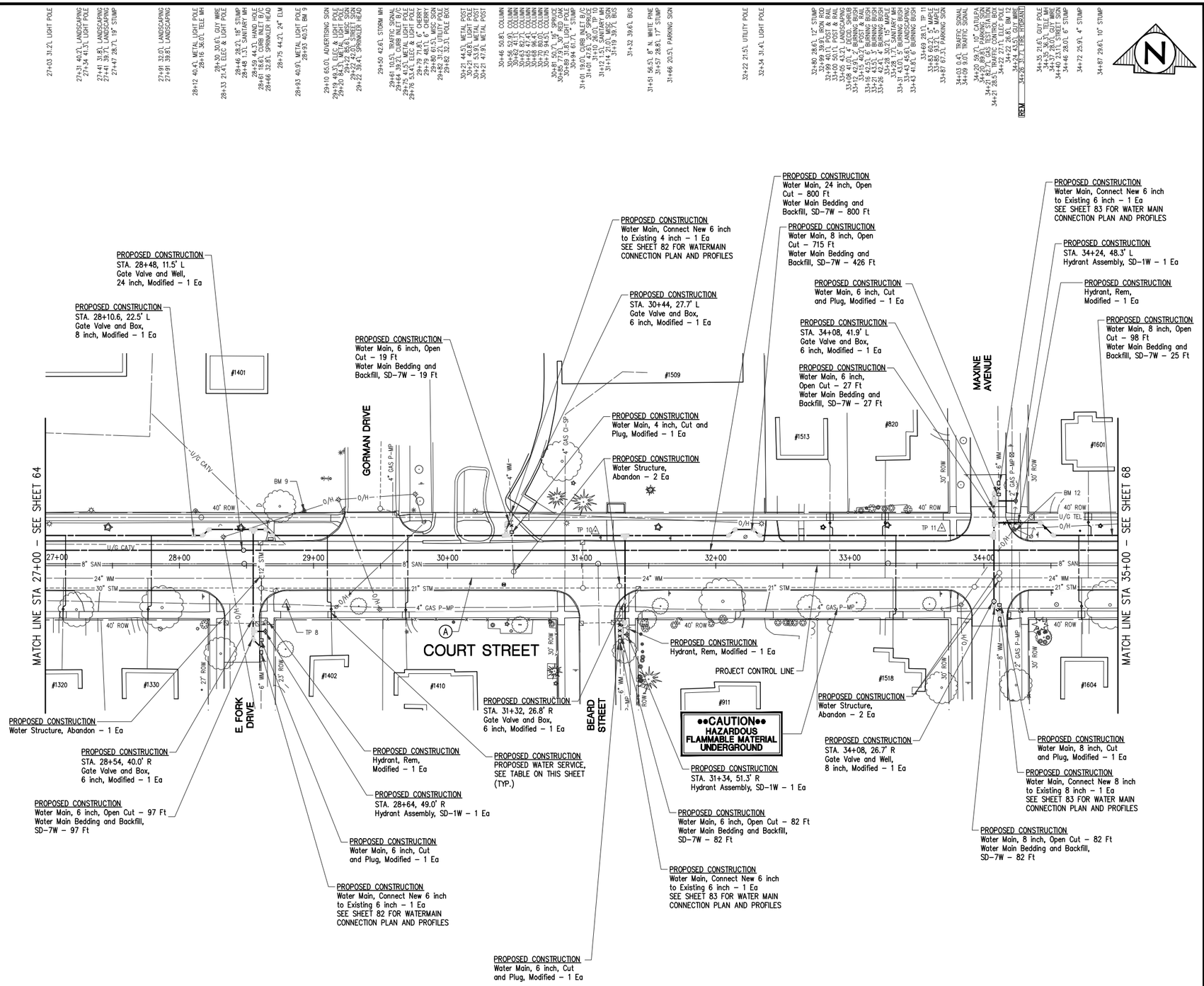


## SHEET QUANTITIES
## CATEGORY 3 - NON-PARTICIPATING

| DESCRIPTION | QUANTITY | UNITS |
|---|---|---|
| Abandon Water Main, 24 inch | 800 | Ft |
| Abandon Water Main, 6 inch | 75 | Ft |
| Abandon Water Main, 8 inch | 82 | Ft |
| Water Main Bedding and Backfill, SD–7W | 1558 | Ft |
| Water Main, 24 inch, Open Cut | 800 | Ft |
| Water Main, 6 inch, Open Cut | 225 | Ft |
| Water Main, 8 inch, Open Cut | 895 | Ft |
| Gate Valve and Box, 6 inch, Modified | 4 | Ea |
| Gate Valve and Box, 8 inch, Modified | 1 | Ea |
| Gate Valve and Well, 8 inch, Modified | 1 | Ea |
| Gate Valve and Well, 24 inch, Modified | 1 | Ea |
| Hydrant Assembly, SD–1W | 3 | Ea |
| Hydrant, Rem, Modified | 3 | Ea |
| Water Main, 4 inch, Cut and Plug, Modified | 1 | Ea |
| Water Main, 6 inch, Cut and Plug, Modified | 3 | Ea |
| Water Main, 8 inch, Cut and Plug, Modified | 1 | Ea |
| Water Main, Connect New 6 inch to Existing 4 inch | 1 | Ea |
| Water Main, Connect New 6 inch to Existing 6 inch | 3 | Ea |
| Water Main, Connect New 8 inch to Existing 8 inch | 1 | Ea |
| Water Serv, 1 inch | 3 | Ea |
| Water Serv, Long, 1 inch | 6 | Ea |
| Water Structure, Abandon | 5 | Ea |

### WATER MAIN FITTING TABLE

| STATION | OFFSET | FITTING |
|---|---|---|
| 28+17.4 | 22.5' L | 8" 45° HZ BEND |
| 28+21.9 | 27.0' L | 8" 45° HZ BEND |
| 28+55.0 | 55.0' R | 6" 45° HZ BEND |
| 28+55.0 | 49.0' R | 6" X 6" HYD TEE |
| 28+55.0 | 27.0' L | 8" X 6" TEE |
| 28+61.1 | 55.4' R | 6" CUT & PLUG |
| 28+61.1 | 66.0' R | 6" SLEEVE |
| 28+61.1 | 61.1' R | 6" 45° HZ BEND |
| 28+64.7 | 27.0' L | 8" 45° HZ BEND |
| 28+69.2 | 22.5' L | 8" 45° HZ BEND |
| 30+43.7 | 31.4' L | 6" 45° HZ BEND |
| 30+43.7 | 22.5' L | 8" X 6" TEE |
| 30+47.4 | 39.7' L | 6" X 4" REDUCER |
| 30+47.4 | 35.1' L | 6" 45° HZ BEND |
| 30+47.9 | 25.1' L | 4" CUT & PLUG |
| 31+28.3 | 40.2' R | 6" CUT & PLUG |
| 31+28.4 | 46.5' R | 6" 45° HZ BEND |
| 31+28.5 | 57.6' R | 6" SLEEVE |
| 31+28.5 | 51.4' R | 6" X 6" HYD TEE |
| 31+32.3 | 42.6' R | 6" 45° HZ BEND |

### WATER MAIN FITTING TABLE

| STATION | OFFSET | FITTING |
|---|---|---|
| 31+32.3 | 22.5' L | 8" X 6" TEE |
| 32+09.8 | 22.5' L | 8" 45° HZ BEND |
| 32+14.3 | 27.0' L | 8" 45° HZ BEND |
| 32+28.1 | 27.0' L | 8" 45° HZ BEND |
| 32+32.6 | 22.5' L | 8" 45° HZ BEND |
| 34+07.5 | 54.1' L | 6" 45° HZ BEND |
| 34+07.5 | 48.3' L | 6" X 6" HYD TEE |
| 34+07.5 | 31.2' R | 8" 45° HZ BEND |
| 34+07.5 | 22.5' L | 8" X 8" TEE |
| 34+07.5 | 32.0' L | 8" X 8" TEE |
| 34+07.5 | 37.3' L | 8" X 6" REDUCER |
| 34+11.0 | 53.1' L | 6" CUT & PLUG |
| 34+11.0 | 62.8' L | 6" SLEEVE |
| 34+11.0 | 57.6' L | 6" 45° HZ BEND |
| 34+11.6 | 29.3' R | 8" CUT & PLUG |
| 34+11.6 | 41.1' R | 8" SLEEVE |
| 34+11.6 | 35.3' R | 8" 45° HZ BEND |
| 34+42.2 | 32.0' L | 8" 45° HZ BEND |
| 34+51.8 | 22.5' L | 8" 45° HZ BEND |

### WATER SERVICE SCHEDULE

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|---|---|---|---|---|---|---|---|
| 1320 E. COURT | 27+15 | N | 1 | 25 | 45 | | 1 |
| 1330 E. COURT | 27+79 | N | 1 | 25 | 45 | | 1 |
| 1402 E. COURT | 29+10 | N | 1 | 25 | 45 | | 1 |
| 1410 E. COURT | 29+70 | N | 1 | 25 | 45 | | 1 |
| 1513 E. COURT | 32+87 | N | 1 | | 25 | 1 | |
| 820 MAXINE | 33+24 | N | 1 | | 25 | 1 | |
| 1518 E. COURT | 33+34 | N | 1 | 25 | 45 | | 1 |
| 1604 E. COURT | 34+71 | N | 1 | 25 | 45 | | 1 |
| 1601 E. COURT | 34+80 | N | 1 | | 25 | 1 | |

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0 40 ft 80 ft

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

### PLAN SUBMITTALS AND CHANGES

BIDDING DOCUMENTS

| DATE | DESCRIPTION |
|---|---|
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REV:

SHT# 66 OF 100

JOB No: 18C0137

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