CITY OF PLYMOUTH WAYNE COUNTY, MICHIGAN 48170 2024 INFRASTRUCTURE IMPROVEMENT PROGRAM CHURCH ST, LIBERTY ST, S MAIN ST, SPRING ST



COUNTY KEY

NOT TO SCALE

CITY HALL 201 S. MAIN ST. PLYMOUTH, MI 48170 (734) 453-1234

DEPARTMENT OF MUNICIPAL SERVICES 1231 GOLDSMITH PLYMOUTH, MI 48170 (734) 453-7737

SUZI DEAL MAYOR

MAUREEN BRODIE
CITY CLERK

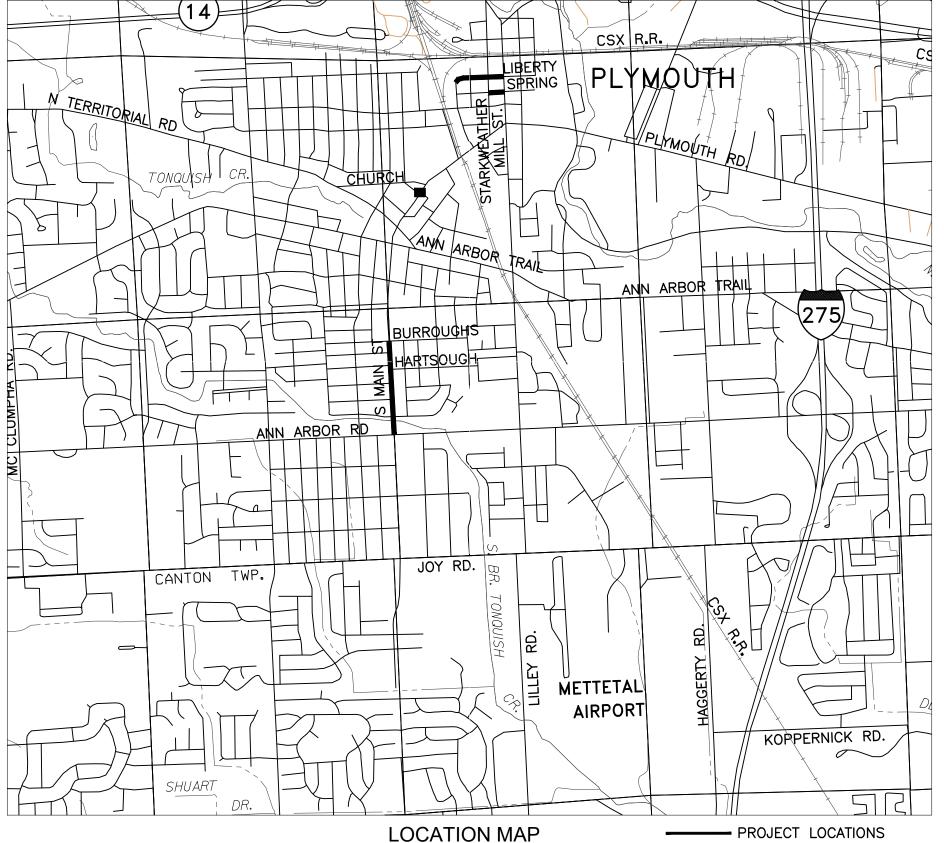
PAUL SINCOCK
CITY MANAGER

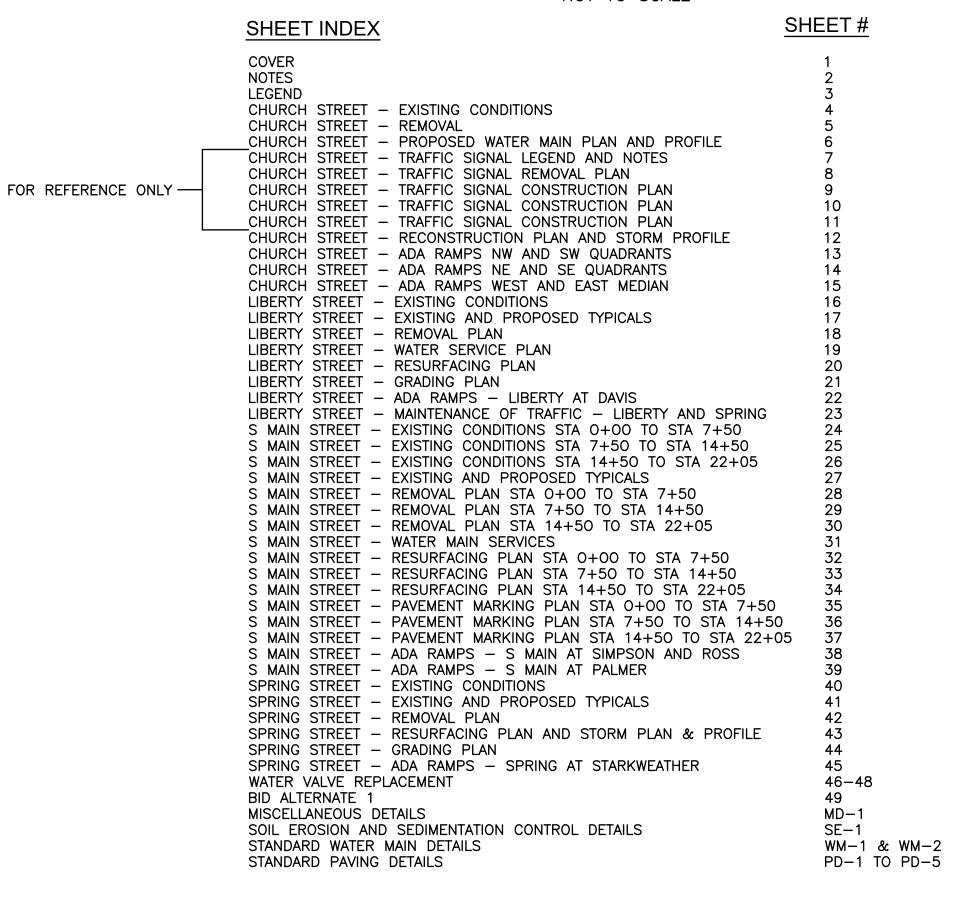
CITY COUNCIL

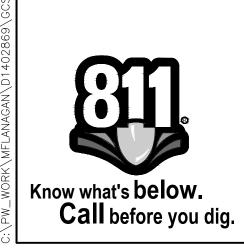
KELLY O'DONNELL, MAYOR PRO TEM LINDA FILIPCZAK, COMMISSIONER JENNIFER KEHOE, COMMISSIONER ALANNA MAGUIRE, COMMISSIONER BROCK MINTON, COMMISSIONER NICK MOROZ, COMMISSIONER

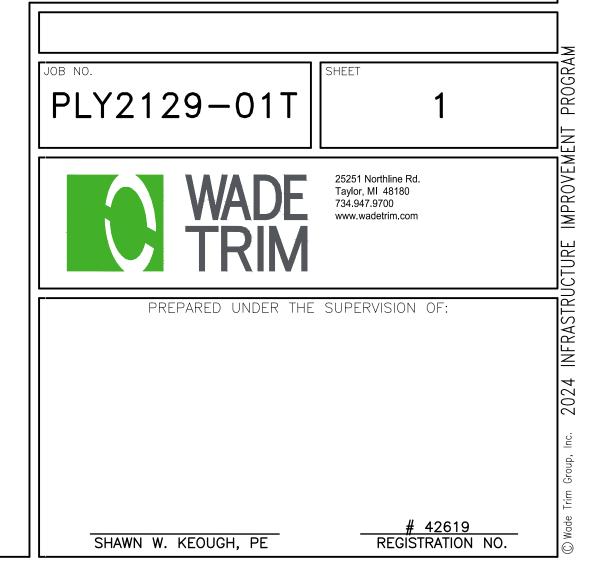
CHRIS PORMAN
DIRECTOR, DEPARTMENT OF MUNICIPAL SERVICES
ADAM GERLACH
ASSISTANT DIRECTOR, PUBLIC UTILITIES











BID SET 3/25/24

GENERAL NOTES

- 1. ALL PROPERTY IRONS AND MONUMENTS, IF DISTURBED OR DESTROYED BY THE CONTRACTOR, SHALL BE REPLACED BY A MICHIGAN REGISTERED PROFESSIONAL SURVEYOR AT THE CONTRACTOR'S EXPENSE.
- 2. LOCATION OF UTILITIES OR OTHER STRUCTURES SHOWN ON THE PLANS ARE TAKEN FROM UTILITY COMPANY OR OTHER RECORDS BELIEVED TO BE RELIABLE. THE OWNER AND ENGINEER ARE NOT RESPONSIBLE FOR ANY OMISSIONS OR VARIATIONS IN THE LOCATION OF THE UTILITIES ENCOUNTERED IN THE WORK.
- 3. THE CONTRACTOR SHALL NOTIFY "MISS DIG" (800) 482-7171, A MINIMUM OF THREE WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION IN THE AREA OF THE WORK.
- 4. THE CONTRACTOR SHALL NOTIFY THE ENGINEER, WADE TRIM AND UTILITY COMPANIES 2 WORKING DAYS IN ADVANCE OF UNCOVERING ANY EXISTING UTILITY.
- 5. PRIOR TO THE INSTALLATION OF ANY PROPOSED UTILITIES, THE EXISTING UTILITIES WHICH CROSS THE PROPOSED UTILITY SHALL BE EXPOSED BY THE CONTRACTOR TO DETERMINE ANY POSSIBLE CONFLICTS WITH THE PROPOSED WORK. MAINTAIN 18—INCHES MINIMUM CLEARANCE BETWEEN ALL UTILITY CROSSINGS. THIS WORK IS INCIDENTAL TO THE PROJECT
- 6. ALL EXISTING TRAFFIC SIGNS IN THE WAY OF CONSTRUCTION SHALL BE REMOVED AND RESET IN A TEMPORARY LOCATION PER THE LATEST EDITION OF MICHIGAN MANUAL OF UNIFIED TRAFFIC CONTROL DEVICES. THIS WORK SHALL BE INCIDENTAL TO THE PROJECT.
- 7. EXISTING LOCAL TRAFFIC SHALL BE MAINTAINED AT ALL TIMES, INCLUDING VEHICLE AND PEDESTRIAN ACCESS TO RESIDENCES AND BUSINESSES, EXCEPT WHEN OTHERWISE SHOWN ON THE PLANS OR SPECIFIED.
- 8. ALL TRAFFIC CONTROL AND DEVICES SHALL BE IN ACCORDANCE WITH THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
- 9. THE CONTRACTOR SHALL LIMIT HIS CONSTRUCTION TRAFFIC AND EQUIPMENT TO THE AREA DIRECTLY UNDER CONSTRUCTION TO PREVENT DAMAGE TO ANY EXISTING IMPROVEMENTS, AND SHALL PREVENT THE SPREAD OF CONSTRUCTION DEBRIS OUTSIDE OF THE CONSTRUCTION AREA.
- 10. THE CONTRACTOR SHALL REMOVE AND REPLACE ANY EXISTING IRRIGATION SYSTEM COMPONENTS DISTURBED BY HIS CONSTRUCTION OPERATIONS. EXISTING MATERIAL MAY BE REUSED UNLESS DAMAGED. DAMAGED MATERIAL SHALL BE REPLACED WITH NEW MATERIAL OF THE SAME TYPE. REMOVAL AND REPLACEMENT SHALL BE INCIDENTAL TO THE PROJECT.
- 11. THE CONTRACTOR SHALL REMOVE AND REPLACE ANY EXISTING DECORATIVE LIGHTING SYSTEM COMPONENTS DISTURBED BY HIS CONSTRUCTION OPERATIONS. EXISTING MATERIAL MAY BE REUSED UNLESS DAMAGED. DAMAGED MATERIAL SHALL BE REPLACED WITH NEW MATERIAL OF THE SAME TYPE. COST FOR DECORATIVE LIGHTING SYSTEM REMOVAL AND REPLACEMENT SHALL BE INCIDENTAL TO THE PROJECT.
- 12. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN THE INTEGRITY OF EXISTING UTILITIES AT ALL TIMES. ALL UTILITIES INCLUDING UTILITY POLES, IN THE VICINITY OF CONSTRUCTION SHALL BE PROTECTED BY BRACING, SUPPORTING, BY THE USE OF TRENCH BOXES OR OTHER ACCEPTABLE MEANS AS DETERMINED BY THE OWNER OF THE UTILITY. ALL COSTS FOR PROTECTION OF UTILITIES SHALL BE INCIDENTAL TO THE PROJECT.
- 13. ANY UTILITIES, MAINS, SERVICES, UNDERDRAINS, OIL LINES, OR OTHER SIMILAR ITEMS DAMAGED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE UTILITY OWNER IN A MANNER ACCEPTABLE TO THE UTILITY OWNER. ALL COSTS FOR REPAIR OR REPLACEMENT SHALL BE PAID BY THE CONTRACTOR, INCIDENTAL TO THE PROJECT.
- 14. WORK STOPPAGE BY EMPLOYEES OF UTILITY COMPANIES WHICH RESULTS IN A DELAY OF UTILITY REVISIONS EFFECTING THE PROGRESS OF THIS PROJECT MAY BE THE BASIS FOR A CLAIM FOR AN EXTENSION OF TIME FOR COMPLETION, BUT WILL NOT BE CONSIDERED THE BASIS FOR A CLAIM FOR EXTRA COMPENSATION OR AN ADJUSTMENT IN CONTRACT UNIT PRICES.
- 15. THE CONTRACTOR SHALL COORDINATE ANY UTILITY RELOCATION REQUIRED TO COMPLETE THE WORK WITH THE OWNER OF THE UTILITY. THIS COORDINATION SHALL BE ACCOMPLISHED IN SUFFICIENT TIME TO ALLOW THE RELOCATION WORK TO BE COMPLETED WITHOUT INTERFERENCE OR DELAY TO THE CONSTRUCTION WORK. ALL COSTS FOR RELOCATION OF UTILITIES SHALL BE INCIDENTAL TO THE PROJECT.
- 16. ALL TREES, SHRUBS AND LANDSCAPING NOT DESIGNATED TO BE REMOVED SHALL BE PROTECTED DURING CONSTRUCTION. ANY TREES, SHRUBS OR LANDSCAPING DAMAGED IN ANY WAY BY THE CONTRACTOR (INCLUDING DAMAGING ROOTS), SHALL BE REPLACED WITH LIKE SPECIES AND SIZE AT THE CONTRACTOR'S EXPENSE.
- 17. THE CONTRACTOR SHALL HAVE AN OPERATING VACUUM SWEEPER ON THE JOB AT ALL TIMES. THE PAVEMENT SHALL BE SWEPT A MINIMUM OF ONCE A DAY OR AS DIRECTED BY THE FIELD ENGINEER. THE CONTRACTOR SHALL ALSO COMPLY WITH LOCAL AGENCY DUST ORDINANCE.
- 18. THE CONTRACTOR SHALL MAINTAIN EXISTING STORM WATER DRAINAGE AT ALL TIMES DURING THE WORK. EXISTING STORM SYSTEM DRAINAGE SHALL BE MAINTAINED BY PUMPING AND BY-PASSING, REPAIR, REMOVAL AND REPLACEMENT OR OTHER MEANS WHEN APPROVED BY THE ENGINEER. ALL COSTS FOR MAINTAINING DRAINAGE SHALL BE INCLUDED IN THE PROJECT PAY ITEMS EXCEPT AS MAY BE OTHERWISE PROVIDED FOR IN THE PROPOSAL.

SOIL EROSION AND SEDIMENTATION CONTROL NOTES

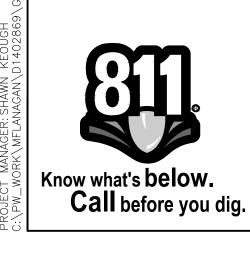
- 1. ALL SOIL EROSION AND SEDIMENTATION CONTROL SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF WAYNE COUNTY DEPARTMENT OF ENVIRONMENT. THE CITY HAS PAID ALL FEES REQUIRED TO OBTAIN A PERMIT FROM WAYNE COUNTY.
- 2. CLEAN ALL ACCUMULATED SEDIMENT FROM CATCH BASINS, SEWERS AND PAVEMENT AREAS AS REQUIRED FOLLOWING COMPLETION OF CONSTRUCTION.
- 3. ALL SOIL EROSION MEASURES SHALL BE CHECKED A MINIMUM OF ONCE A DAY.
- 4. INLET PROTECTION FOR STORM SEWER CATCH BASINS SHALL BE REPLACED IMMEDIATELY IF THE FOLLOWING HAS OCCURRED: ANY TEARS OR HOLES IN THE FILTER FABRIC, AND/OR DRAIN SILT HAS COLLECTED ON FABRIC CAUSING SAGGING OF FILTER IN THE CATCH BASIN.
- 5. ALL TRUCKS SHALL CLEAN TIRES OF DIRT BEFORE EXITING CONSTRUCTION SITE.
- 6. ANY AND ALL ACCUMULATED SEDIMENT ON STREETS AND ROADS IN THE PROJECT VICINITY SHALL BE SWEPT CLEAN AT LEAST ONCE PER DAY OR AS DIRECTED BY THE ENGINEER.

SEQUENCE OF CONSTRUCTION - SESC

- 1. INSTALL ALL TEMPORARY SOIL EROSION CONTROL MEASURES ON EXISTING STORM STRUCTURES PRIOR TO DISTURBING ANY EARTH ON THE SITE.
- 2. INSTALL TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT DRIVE PRIOR TO DISTURBING ANY EARTH ON SITE. ALL TRUCKS LEAVING THE CONSTRUCTION SITE SHALL PASS THROUGH A TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT DRIVE TO REMOVE DIRT AND SEDIMENT. ANY DIRT AND ACCUMULATED SEDIMENT ON ROADS AND STREETS IN THE VICINITY OF THE PROJECT SHALL BE SWEPT CLEAN AT LEAST DAILY WITH A VACUUM TYPE PICKUP BROOM.
- 3. INSTALL INLET FILTERS ON ALL STORM CATCH BASINS UPON COMPLETING CONSTRUCTION OF EACH ONE.
- 4. REMOVE EXISTING PAVEMENT.
- 5. CONSTRUCT PROPOSED UTILITIES.
- 6. PREPARE SUBGRADE, CONSTRUCT CONCRETE CURB, PLACE PROPOSED ASPHALT PAVEMENT
- 7. INSTALL TOPSOIL AND NURSERY SOD ON DISTURBED RIGHT-OF-WAY WITHIN 5 DAYS OF COMPLETING PAVEMENT INSTALLATION.
- 8. CLEAN ALL ACCUMULATED SEDIMENT FROM CATCH BASINS, SEWERS AND PAVEMENT AREAS AS REQUIRED FOLLOWING COMPLETION OF CONSTRUCTION.
- 9. THE EXACT SCHEDULE OF SOIL EROSION AND SEDIMENTATION CONTROL EVENTS (WITH DAYS AND/OR DATES OF THE VARIOUS ACTIVITIES) SHALL BE SUBMITTED TO WAYNE COUNTY BY THE CONTRACTOR, FOR REVIEW AND APPROVAL, PRIOR TO OBTAINING A PERMIT.

WATER MAIN NOTES

- 1. ALL WATER MAIN PIPE SHALL BE DUCTILE IRON, PC350 WITH PUSH-ON JOINTS; FITTINGS SHALL BE MECHANICAL JOINT, DUCTILE IRON, COMPACT FITTINGS; AS SPECIFIED IN SECTION 33 1100, WATER UTILITY DISTRIBUTION PIPING. WATER MAIN BEDDING SHALL BE CLASS F-III
- 2. WATER MAIN TRENCH BACKFILL UNDER ROAD SURFACES, PAVEMENTS, CURB, DRIVEWAY, SIDEWALK AND WHERE THE TRENCH IS WITHIN 3-FEET OF THE PAVEMENT SHALL BE TRENCH B, (SAND) PER SPECIFICATION SECTION 31 2333, TRENCHING AND BACKFILLING.
- 3. WHENEVER THE CONTRACTOR NEEDS TO SHUT OFF A WATER MAIN, THE CONTRACTOR SHALL NOTIFY THE CITY OF PLYMOUTH. ALL VALVES SHALL BE OPENED AND CLOSED ONLY BY THE CITY OF PLYMOUTH WATER DEPARTMENT PERSONNEL. THE CONTRACTOR SHALL NOTIFY ALL AFFECTED WATER CONSUMERS IN WRITING A MINIMUM OF 48 HOURS BEFORE SHUTTING OFF ANY WATER MAIN.
- 4. THE EXISTING WATER MAIN SHALL NOT BE ABANDONED UNTIL AFTER THE PROPOSED WATER MAIN HAS BEEN TESTED AND ACCEPTED FOR USE, AND ALL FIRE HYDRANTS AND SERVICES ARE CONNECTED TO THE NEW WATER MAIN.
- 5. ALL EXISTING WATER SERVICES SHALL BE REPLACED FROM THE NEW WATER MAIN TO THE PROPERTY LINE WITH 1-INCH K COPPER AND A NEW CURB STOP AND BOX (UNLESS OTHERWISE NOTED).
- 6. WHILE BOTH EXISTING AND NEW FIRE HYDRANTS ARE IN PLACE ON THE PROJECT, THE FIRE HYDRANTS WHICH ARE NOT LIVE AND AVAILABLE FOR USE SHALL BE CONSPICUOUSLY COVERED OR BAGGED TO PREVENT BEING MISTAKEN FOR A LIVE HYDRANT.
- 7. RIM ELEVATIONS FOR NEW WATER MAIN STRUCTURES THAT ARE WITHIN PAVEMENT MAY REQUIRE ADJUSTMENT DURING CONSTRUCTION OF PAVEMENT. RIM ELEVATIONS OF NEW WATER MAIN STRUCTURES OUTSIDE OF THE PAVEMENT WILL BE SET TO GRADE AFTER FINAL GRADING HAS BEEN COMPLETED IN THE AREA. THIS WORK SHALL BE INCIDENTAL TO THE PROJECT.
- 8. REMOVE AND SALVAGE EXISTING GATE WELL FRAMES AND COVERS, FIRE HYDRANTS, GATE VALVES, AND VALVE BOXES AND DELIVER TO THE CITY OF PLYMOUTH. PAYMENT FOR THIS WORK SHALL BE INCIDENTAL TO PROJECT.
- 9. SEE SPECIFICATIONS FOR THE WORK REQUIRED FOR ABANDONMENT OF GATE WELLS, FIRE HYDRANTS, STOP BOXES AND WATER MAINS.



DESCRIPTION

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25251 Northlin Taylor, MI 48 734,947.9700 www.wadetrin

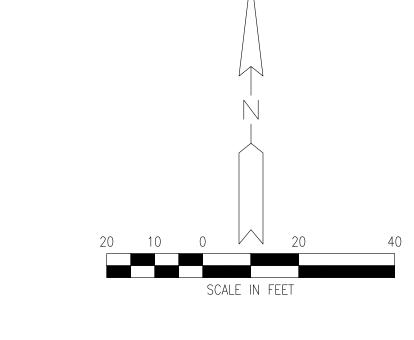
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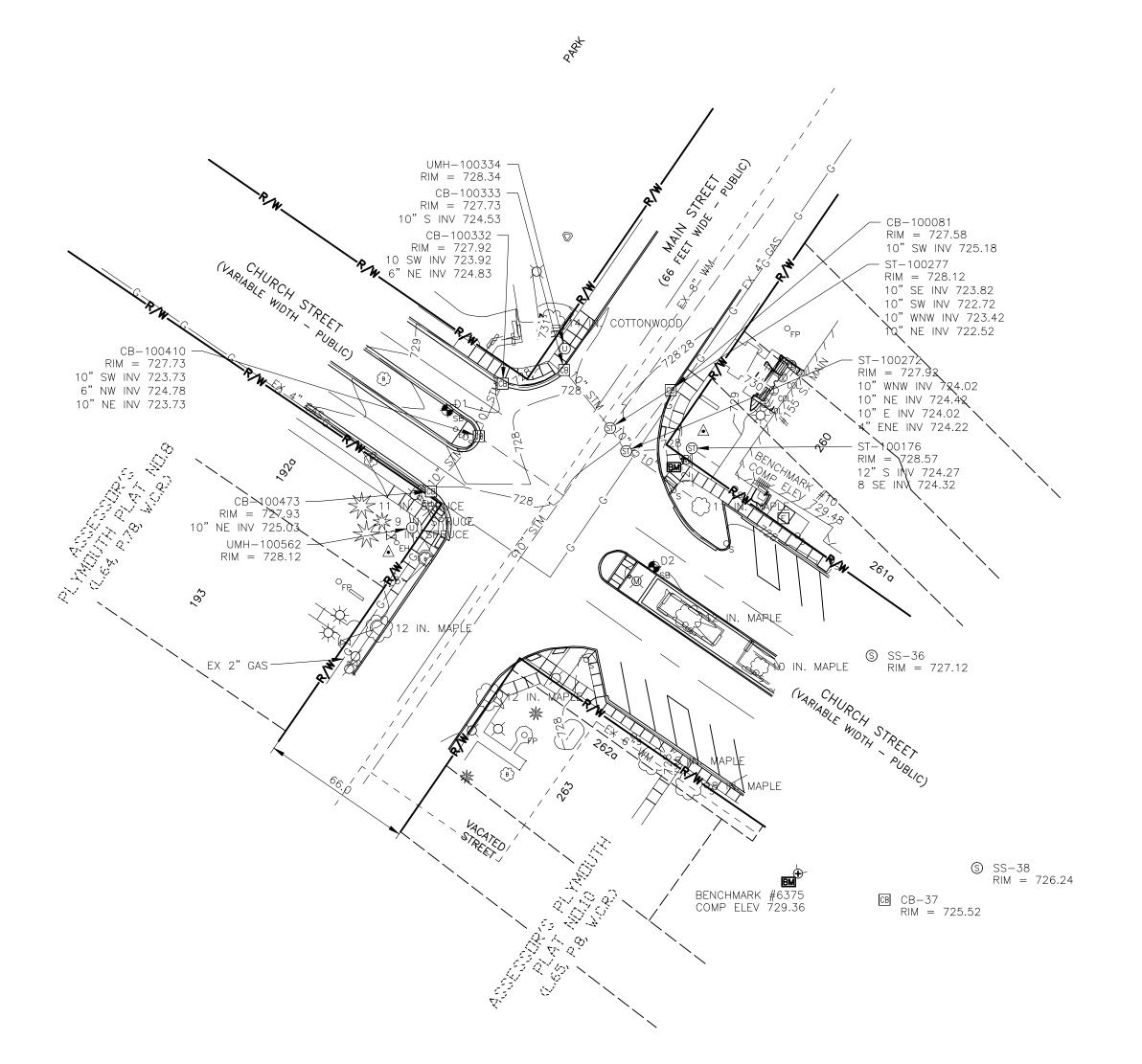
BENCHMARK#10 ELEV 729.48

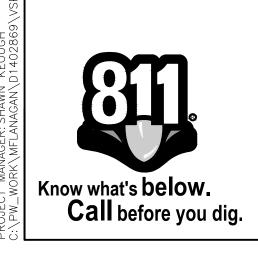
SET "X" MARK ON WESTERLY MOST BOLT OF LIGHT POLE, NORTHEAST CORNER OF S MAIN ST AND CHURCH

BENCHMARK#6375 ELEV 729.36

ARROW ON HYDRANT AT SOUTHWEST CORNER OF CITY HALL AND FIRE STATION





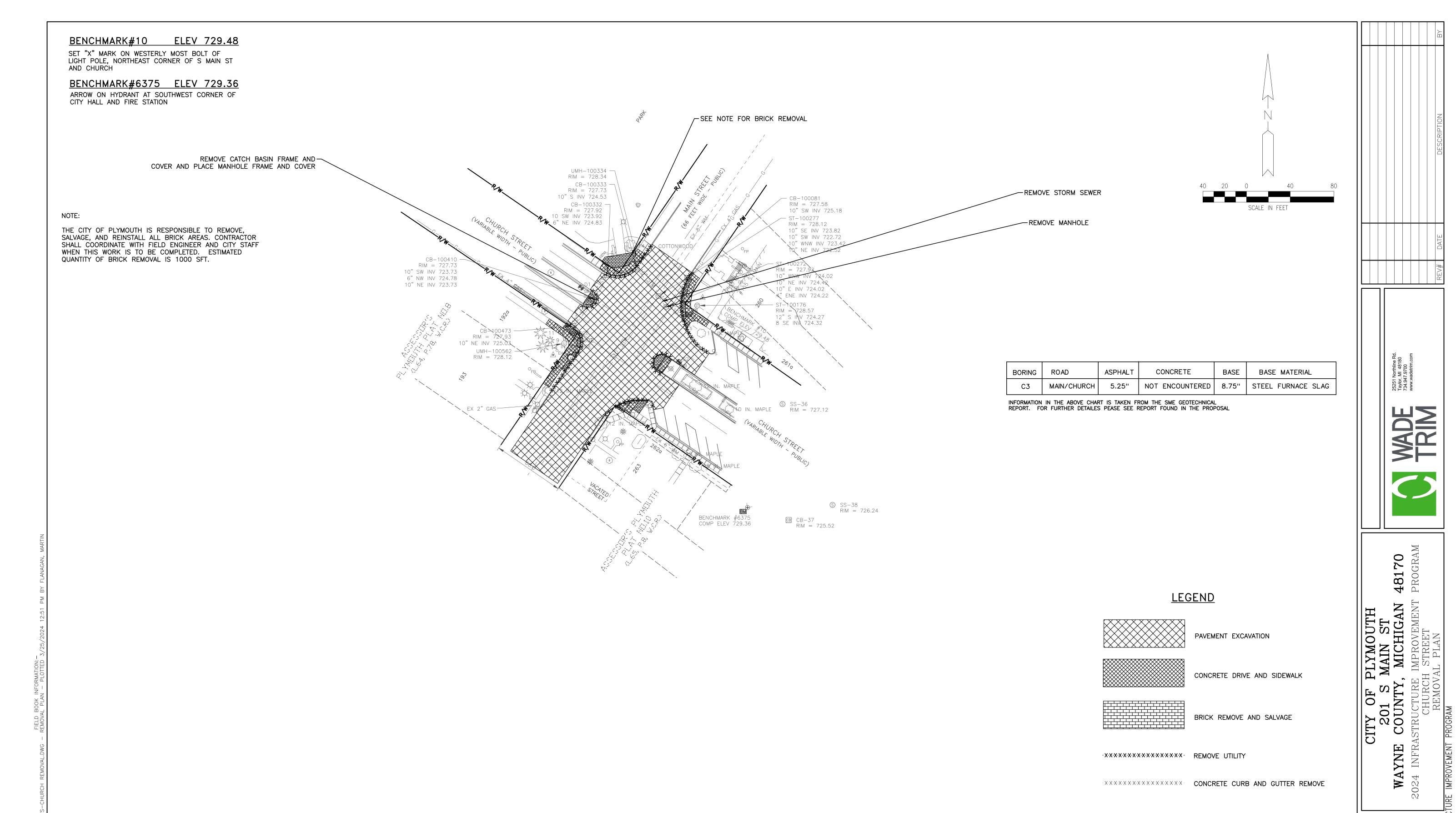


48170 Program

CITY OF PLYMOUTH
201 S MAIN ST
WAYNE COUNTY, MICHIGAN 4
2024 INFRASTRUCTURE IMPROVEMENT P
CHURCH STREET
EXISTING CONDITIONS
E IMPROVEMENT PROGRAM

ISSUED FOR: DATE: BY: BID 3-25-24 SWK

DOB NO. PLY2129-01T



Know what's below.
Call before you dig.

SUMMARY OF QUANTITIES THIS SHEET

600 CY PAVEMENT EXCAVATION
1500 SF CONCRETE DRIVES AND SIDEWALK, REMOVE
12 LF STORM SEWER REMOVE

425 LF CURB AND GUTTER, REMOVE
1 EA REMOVE CB COVER AND REPLACE WITH MANHOLE COVER

EA DRAINAGE STRUCTURE, REMOVE

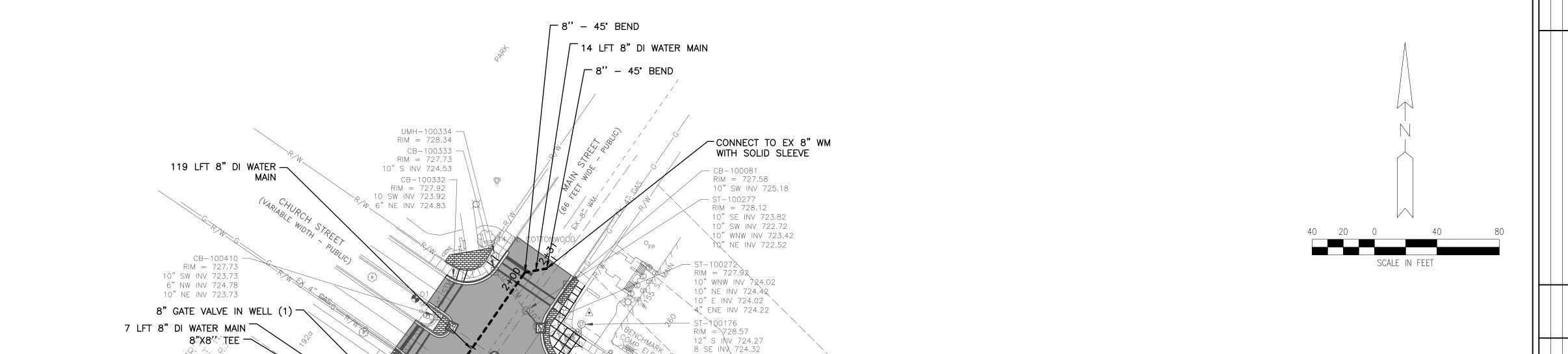
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ISSUED FOR: DATE: BY: BID 3-25-24 SWK

PLY2129-01T

BENCHMARK#10 ELEV 729.48 SET "X" MARK ON WESTERLY MOST BOLT OF LIGHT POLE, NORTHEAST CORNER OF S MAIN ST AND CHURCH

BENCHMARK#6375 ELEV 729.36 ARROW ON HYDRANT AT SOUTHWEST CORNER OF CITY HALL AND FIRE STATION



CONNECT TO EXISTING 6" WM

CB CB-37

RIM = 725.52

S SS−38

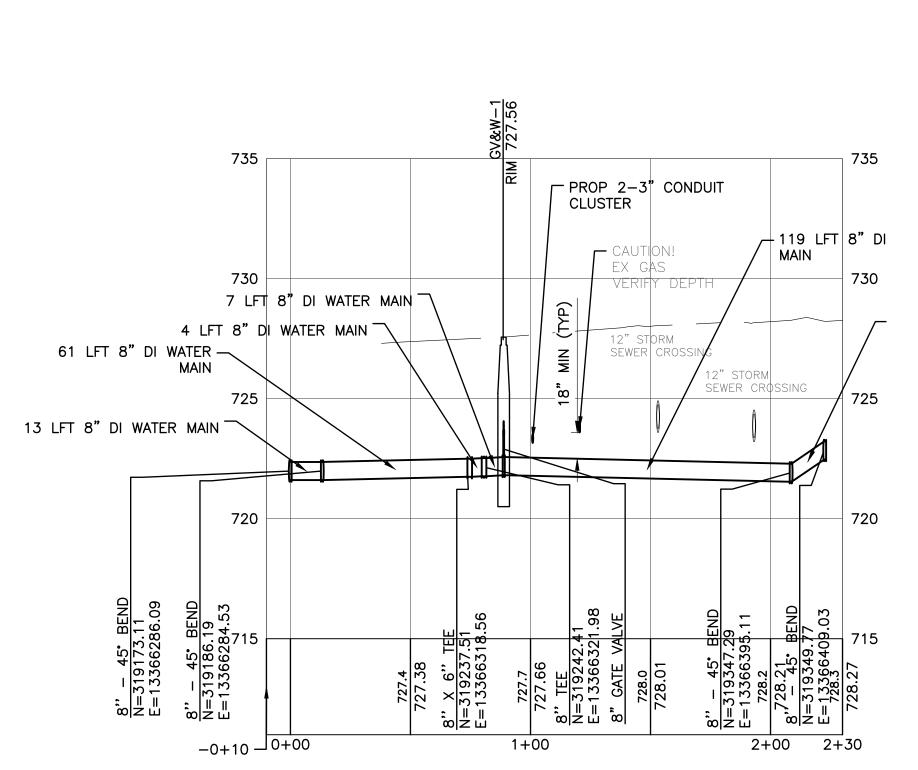
RIM = 726.24

WITH SOLID SLEEVE

BENCHMARK #6375 COMP ELEV 729.36

√8" X 6" REDUCER

└─ 53 LFT 8" DI WATER



4 LFT 8" DI WATER MAIN PROPOSED HYDRANT (1)

28 LFT 8" DI WATER —

8" GATE VALVE IN WELL (2) —

8" X 6" TEE

19 LFT 6" DI WATER MAIN

REMOVE HYDRANT —

61 LFT 8" DI WATER -

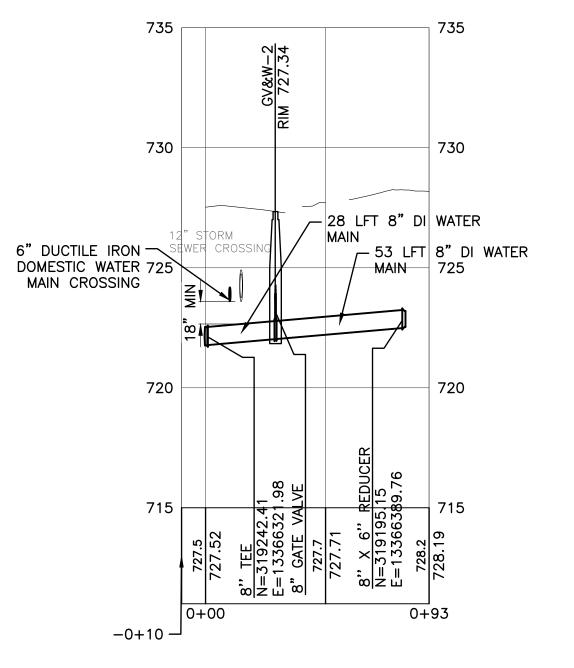
8" - 45° BEND -

WITH SOLID SLEEVE

13 LFT 8" DI WATER MAIN

CONNECT TO EXISTING 8" WM-

8" - 45" BEND -



Know what's below. Call before you dig.

CONNECTION NOTE:

CONNECT TO EXISTING WATER MAIN AFTER HYDROSTATIC AND BACTERIOLOGICAL TESTS HAVE BEEN SUCCESSFULLY COMPLETED AND REVIEWED BY THE ENGINEER.

CONTRACTOR SHALL SEND COPY OF ALL BACTERIOLOGICAL TESTS TO THE CITY OF PLYMOUTH FAX# 734.455.1666

QUANTITIES THIS SHEET

266 LF WATER MAIN, 8-INCH, DI PC 350, TRENCH "B"

1 EA REMOVE FIRE HYDRANT ASSEMBLY

5 CY WATER MAIN, ABANDON WITH FLOWABLE FILL

1 EA FIRE HYDRANT ASSEMBLY

3 EA CONNECT TO EXISTING WATER MAIN WITH MJ SOLID SLEEVE

2 EA GATE VALVE IN WELL, 8-INCH

48170PROGRAN

CITY OF PLYMOUTH
201 S MAIN ST
WAYNE COUNTY, MICHIGAN
2024 INFRASTRUCTURE IMPROVEMENT
CHURCH STREET
PROPOSED WATER MAIN PLAN AND P

ISSUED FOR: DATE: BY: BID 3-25-24 SWK

MAINTAINING AGENCY CONTACT INFORMATION
- CITY OF PLYMOUTH: (734) 453-7737

NOTIFICATIONS TO MAINTAINING AGENCIES

CONTACT CITY OF PLYMOUTH SEVEN WORKING DAYS PRIOR TO START OF

CONSTRUCTION AND SEVEN WORKING DAYS PRIOR TO SIGNAL ACTIVATION.

CABINET SET UP AND CONTROLLER TIMING
CONTRACTOR SHALL BE RESPONSIBLE FOR PROGRAMMING THE CONTROLLER
AND WIRING THE CABINET. THIS WILL BE INCLUDED IN THE PAY ITEM FOR
"CONTROLLER AND CABINET, DIGITAL TYPE" AND WILL NOT BE PAID FOR
SEPARATELY.

TREE TRIMMING

ALL TREE TRIMMING REQUIRED TO CLEAR NEW TRAFFIC SIGNAL POLES & TRAFFIC SIGNAL UNITS SHALL BE INCLUDED IN THE PAY ITEM & NO EXTRA PAYMENT SHALL BE MADE.

FACILITIES NOT ON PLANS

EXISTING O.H. & T.S. FACILITIES ARE NOT NECESSARILY SHOWN ON PLANS.

EXISTING STREET SIGNS

ALL TRAFFIC STREET SIGNS SUCH AS "NO PARKING", "NO STANDING", ETC. SHALL BE TRANSFERRED FROM OLD STD. OR POLE TO NEW STD. OR POLE AT SAME LOCATION OR IN CLOSE PROXIMITY BY THE CONTRACTOR.

CONTINUOUS TRAFFIC SIGNAL OPERATION

PROPOSED T.S. SHALL BE PUT INTO OPERATION AT TIME OF REMOVAL OF EXISTING T.S. FACILITIES, CONTRACTOR SHALL NOTIFY THE CITY OF PLYMOUTH IF UNABLE TO MAINTAIN T.S. IN AN OPERABLE CONDITION AT ALL TIMES.

UNDERGROUND UTILITY SEPARATION

A MINIMUM CLEARANCE OF 3'-6" HORIZONTAL & 1'-0" VERTICAL MUST BE MAINTAINED BETWEEN PROPOSED FACILITIES & EXISTING U.G. WATER FACILITIES.

PLAN DEVIATIONS DURING CONSTRUCTION

NO CHANGES FROM PLANS IN LOCATION OF SUPPORTING STRUCTURES SIGNAL HEAD PLACEMENT OR TRAFFIC SIGNAL EQUIPMENT WILL BE ALLOWED WITHOUT PRIOR APPROVAL OF THE CITY OF PLYMOUTH AND THE ENGINEER.

INNERDUCT

CONTRACTOR MUST INSTALL A CONTINUOUS FLEXIBLE NON—METALLIC TUBING (INNERDUCT) FOR LOW VOLTAGE COMMUNICATION TYPE CABLE FROM THE DEVICE TO THE CONTROLLER CABINET. INNERDUCT IS NOT REQUIRED IF COMMUNICATION CABLE IS 600V RATED.

SIGNAL HEAD LANDING POINT

ENSURE EACH TRAFFIC SIGNAL HEAD ASSEMBLY HAS ITS OWN LANDING POINT WITH ALL NEUTRALS CONNECTED TOGETHER WITH A METAL TYPE JUMPER.

SIGNAL EQUIPMENT DISPOSAL

DISPOSAL OF ALL TRAFFIC SIGNAL EQUIPMENT IS INCLUDED IN THE REMOVAL PAY ITEMS AND SHALL ALSO INCLUDE THE FOLLOWING:

-NOTIFICATION TO CITY OF PLYMOUTH THAT TRAFFIC SIGNAL

EQUIPMENT IS BEING REMOVED.

-TEMPORARY STORAGE OF EQUIPMENT IN A DUMPSTER ON SITE

-PROPER DISPOSAL OF ALL REMAINING EQUIPMENT.

(OR AS DIRECTED BY THE ENGINEER) ALLOWING CITY OF PLYMOUTH 48 HOURS TO SALVAGE ANY EQUIPMENT.

-PROPER DISPOSAL OF ANY EQUIPMENT CONTAINING ENVIRONMENTALLY SENSITIVE MATERIALS (MERCURY RELAY SWITCHES FOR EXAMPLE)
-DISABLING OR DESTRUCTION OF ALL REMAINING EQUIPMENT TO THE

SATISFACTION OF THE ENGINEER SUCH THAT IT CANNOT BE REUSED OR RESOLD.

PROJECT SPECIFIC NOTES

ELECTRICAL SERVICE INSPECTION FEES SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION AND WILL NOT BE PAID FOR SEPARATELY.

ALL CONDUIT CROSSINGS MUST BE COORDINATED WITH ROAD AND SIDEWALK CONSTRUCTION.

TRAFFIC SIGNAL EQUIPMENT SYMBOLS

12" L.E.D. VEHICLE TRAFFIC SIGNAL (ONE WAY)

12" L.E.D. VEHICLE TRAFFIC SIGNAL (TWO WAY: BACK TO BACK)

12" L.E.D. VEHICLE TRAFFIC SIGNAL (THREE WAY)

12" L.E.D. VEHICLE TRAFFIC SIGNAL (FOUR WAY)

-1 12" L.E.D. PEDESTRIAN TRAFFIC SIGNAL (ONE WAY)

12" L.E.D. PEDESTRIAN TRAFFIC SIGNAL (TWO WAY: AT ANGLE TO EACH OTHER)

PEDESTRIAN PUSHBUTTON

30 INCH ROUND PRECAST TRAFFIC SIGNAL HANDHOLE

36 INCH ROUND PRECAST TRAFFIC SIGNAL HANDHOLE

ALUMINUM PEDESTRIAN PEDESTAL

ANCHOR BASE STEEL STRAIN POLE
(POLE LENGTH & FOUNDATION SIZE AS CALLED OUT)

MAST ARM STANDARD AND FOUNDATION

(POLE LENGTH & FOUNDATION SIZE AS CALLED OUT)

COILED UP WIRE (FOR CONNECTION BY OTHERS)

BASE MOUNTED TRAFFIC CONTROLLER
POLE MOUNTED TRAFFIC CONROLLER

CASE SIGN (1 WAY OR 2 WAY)

CASE SIGN (3 WAY OR 4 WAY)

STAINLESS STEEL SERVICE DISCONNECT

METERED ELECTRIC SERVICE

ELECTRIC GROUND

TS# — SIGNAL HEAD

____ ILLUMINATED CASE SIGN

PROPOSED/SALVAGED WIRELESS VEHICLE SENSOR NODE

EXISTING/REMOVED WIRELESS VEHICLE SENSOR NODE

SPP RADIO

RECTANGULAR RAPID FLASHING BEACON

MDOT SIGNAL STANDARD PLANS

COLOR CODE WIRING/EQUIPMENT GROUNDING

COLOR CODE FOR WIRING CONNECTING SIGNAL LAMPS

WHERE THE FOLLOWING ITEMS ARE CALLED FOR IN THE PLANS THEY ARE TO BE CONSTRUCTED ACCORDING TO THE STANDARDS GIVEN BELOW, OPPOSITE EACH ITEM, UNLESS OTHERWISE INDICATED.

*WC-026-A

*WC-026-B

*WC-028-B PEDESTAL FOUNDATION AND SIGNAL MOUNTING DETAILS *SIG-032-B TRAFFIC SIGNAL MAST ARM POLE AND MAST ARM DETAILS - CATEGORY III *SIG-040-A TRAFFIC SIGNAL MAST ARM STANDARD FOUNDATIONS BASE MOUNTED T.S. CONTROLLER CABINET/FOUNDATIONS *WC-045-A *SIG-140-A TRAFFIC SIGNAL UNINTERRUPTIBLE POWER SYSTEM *SIG-200-A SECONDARY SERVICE/DISCONNECT FOR WOOD POLES *SIG-210-B UNDERGROUND SERVICE METERED AND UNMETERED *SIG-240-A HANDHOLE- PRECAST, POLYMER CONCRETE *SIG-250-A CONDUIT (DIRECT BURIAL/ENCASED) *SIG-301-A MAST ARM MOUNTED T.S. BRACKET ASSEMBLY *SIG-330-A PEDESTAL MOUNTED SIGNAL DISPLAYS *SIG-400-A PEDESTRIAN PUSH BUTTON DETAILS

*MDOT SPECIAL DETAILS - LOCATED IN PROPOSAL

FORREFERENCE

THE CITY OF PLYMOUTH HAS RETAINED "RAUHORN ELECTRIC TO INSTALL THE NEW MAST ARMS AND PEDESTRIAN CROSSING SIGNALS

THE CONTRACTOR SELECTED BY THE CITY OF PLYMOUTH FOR THE 2024 INFRASTRUCTURE PROGRAM SHALL COORDINATE THEIR WORK IN COOPERATION WITH RAUHORN ELECTRIC

Know what's below.
Call before you dig.

25251 Northline Rd.
Taylor, MI 48180
734.947.9700
www.wadetrim.com

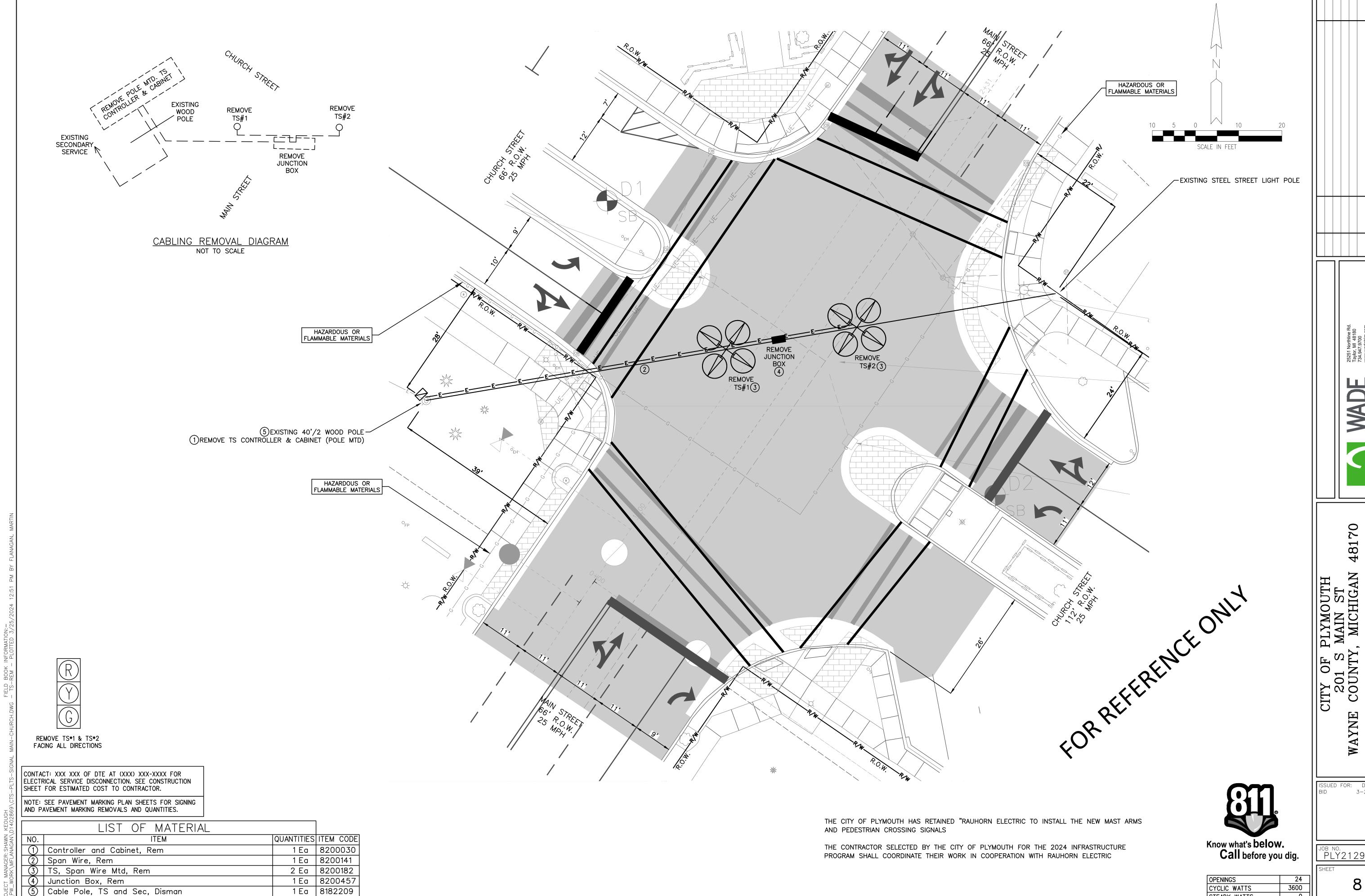
MAIN ST MICHIGAN 48170 IMPROVEMENT PROGRA STREET

CITY OF PLY
201 S MA]
AYNE COUNTY, MI
TRAFFIC SIGNAL LEGE

ISSUED FOR: DATE: BY: BID 3-25-24 SWK

JOB NO. PLY2129-01T

SHEET



25251 Northline Rd. Taylor, MI 48180 734.947.9700 www.wadetrim.com

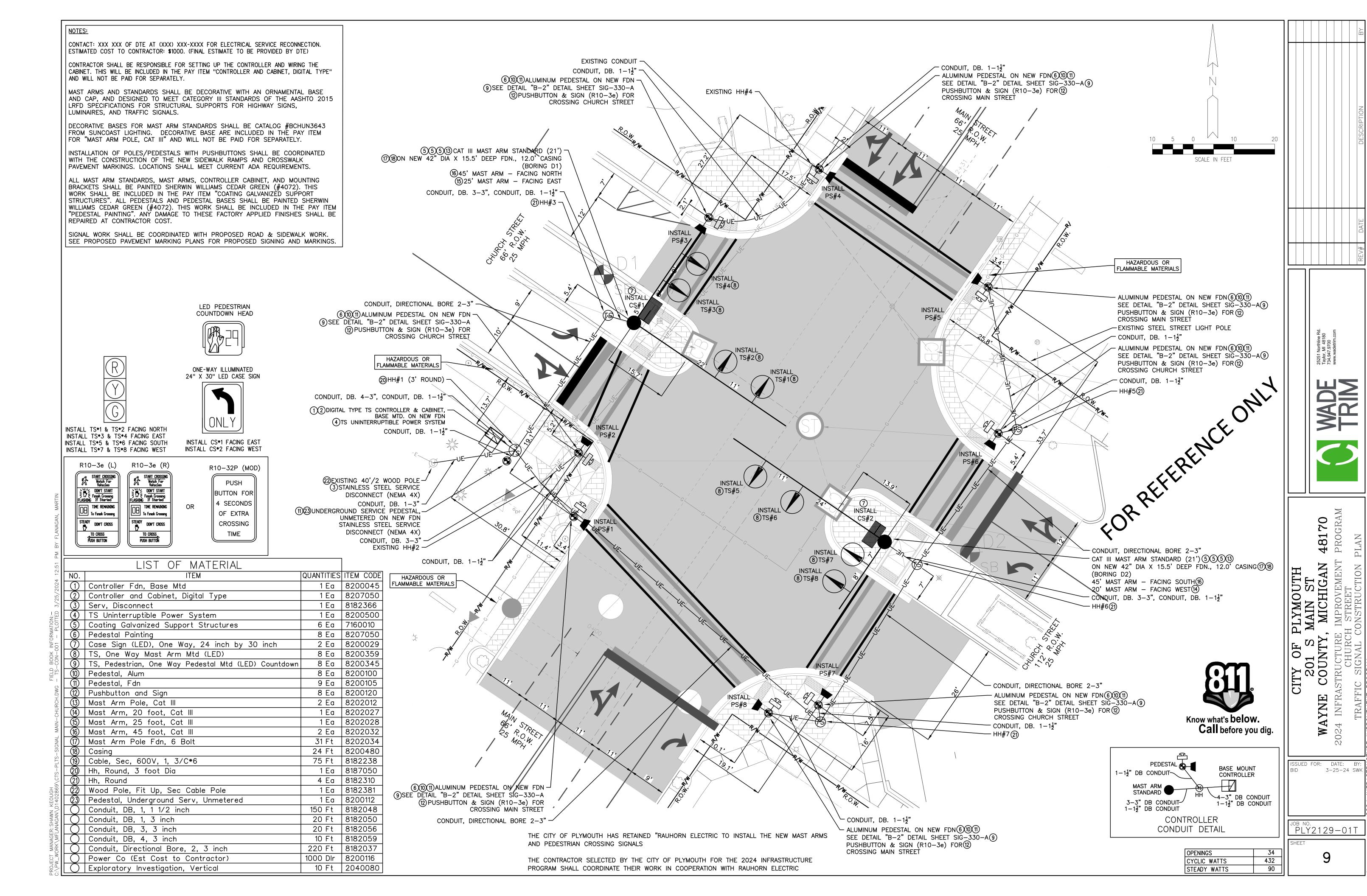
48170 PROGRAN

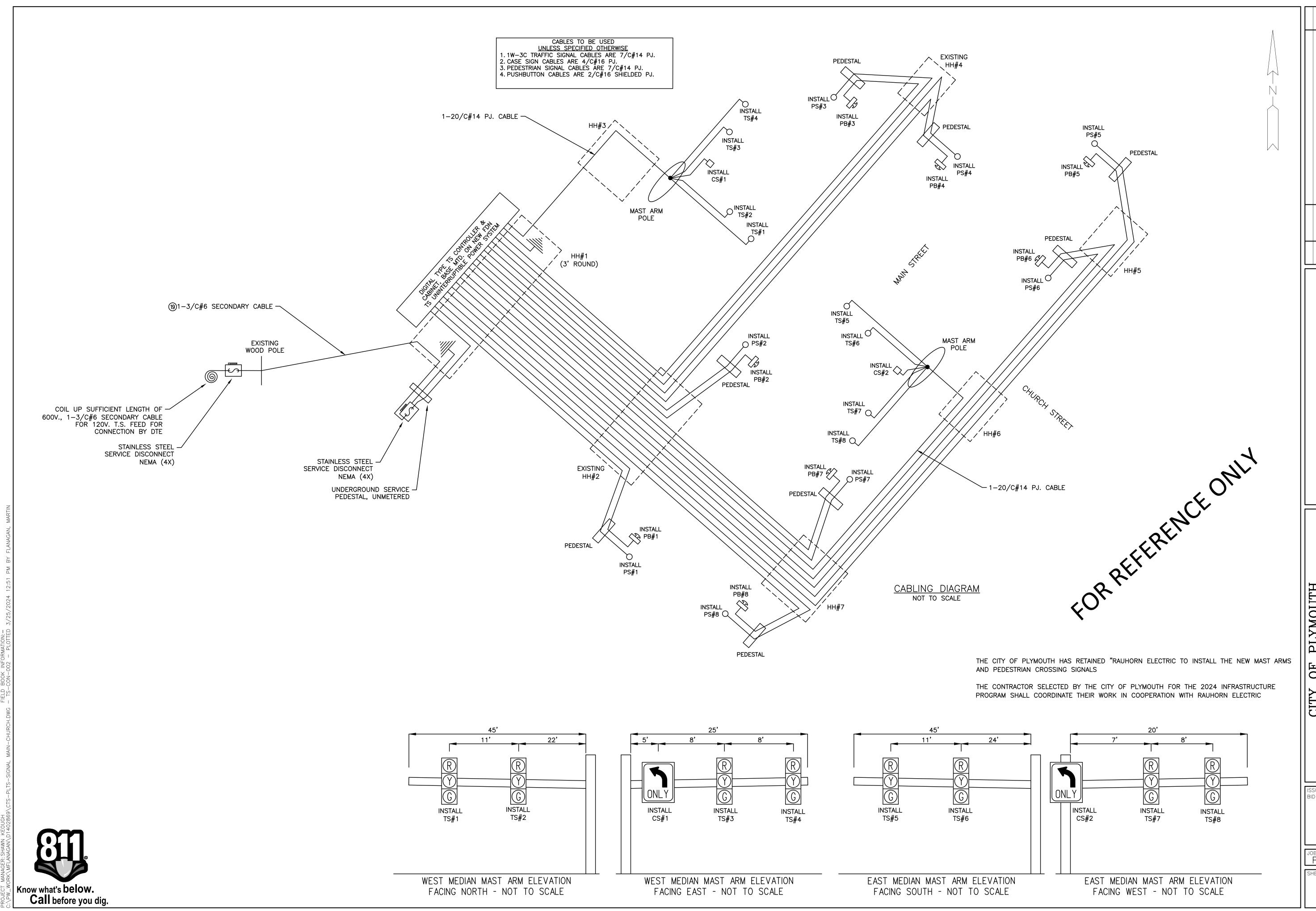
AYNE

ISSUED FOR: DATE: BY: BID 3-25-24 SWK

PLY2129-01T

STEADY WATTS





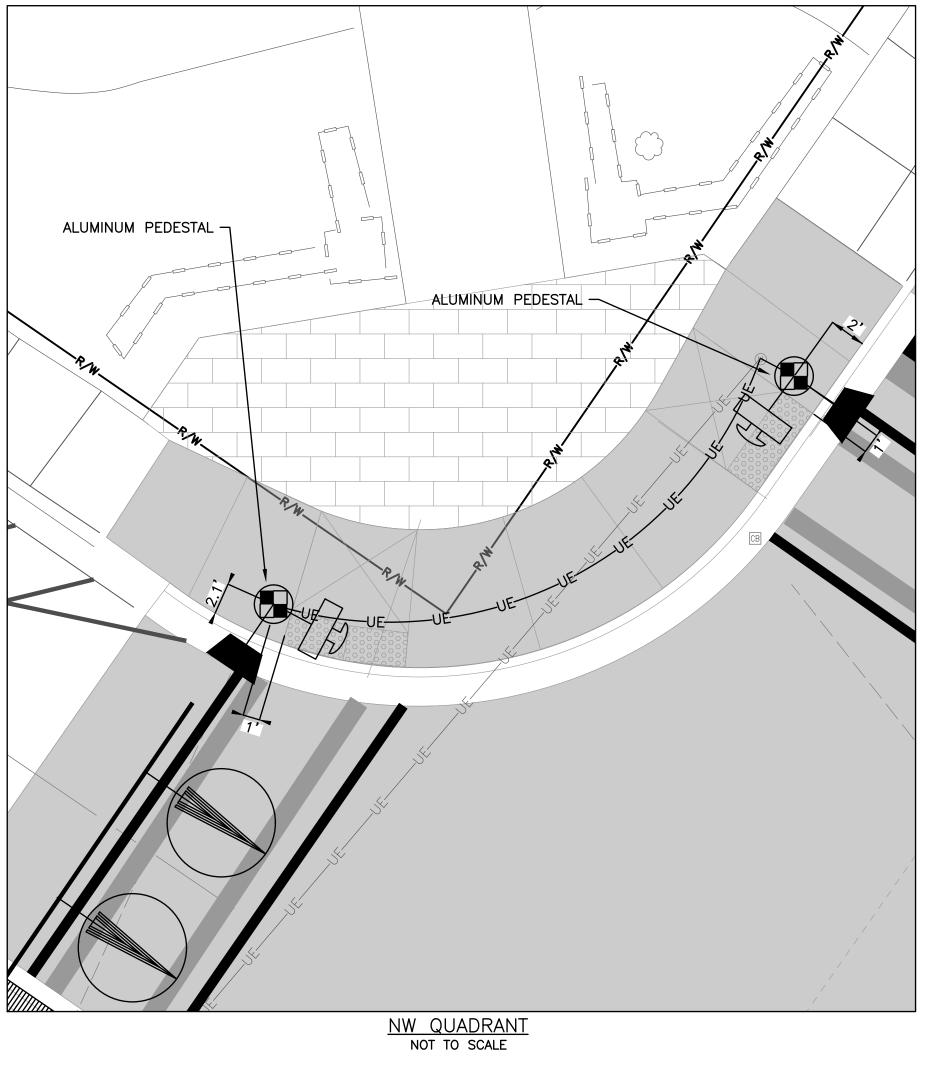
A.M. REV# DATE

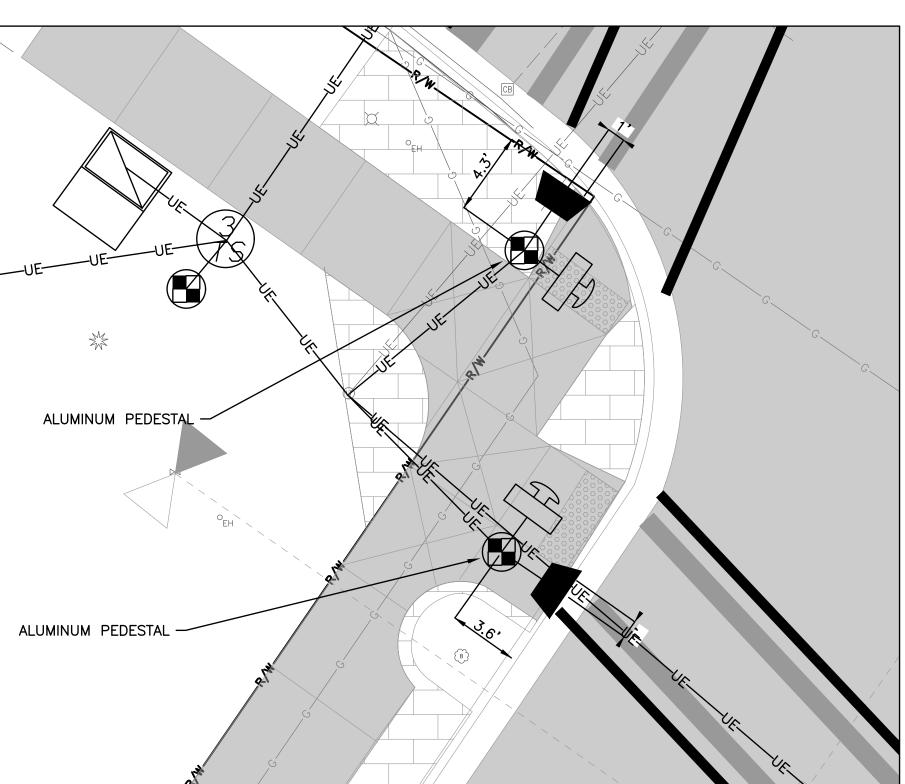
CITY OF PLYMOUTH
201 S MAIN ST
WAYNE COUNTY, MICHIGAN 48170
024 INFRASTRUCTURE IMPROVEMENT PROGRAM

ISSUED FOR: DATE: BY:
BID 3-25-24 SWK

NO. Y2129-01T

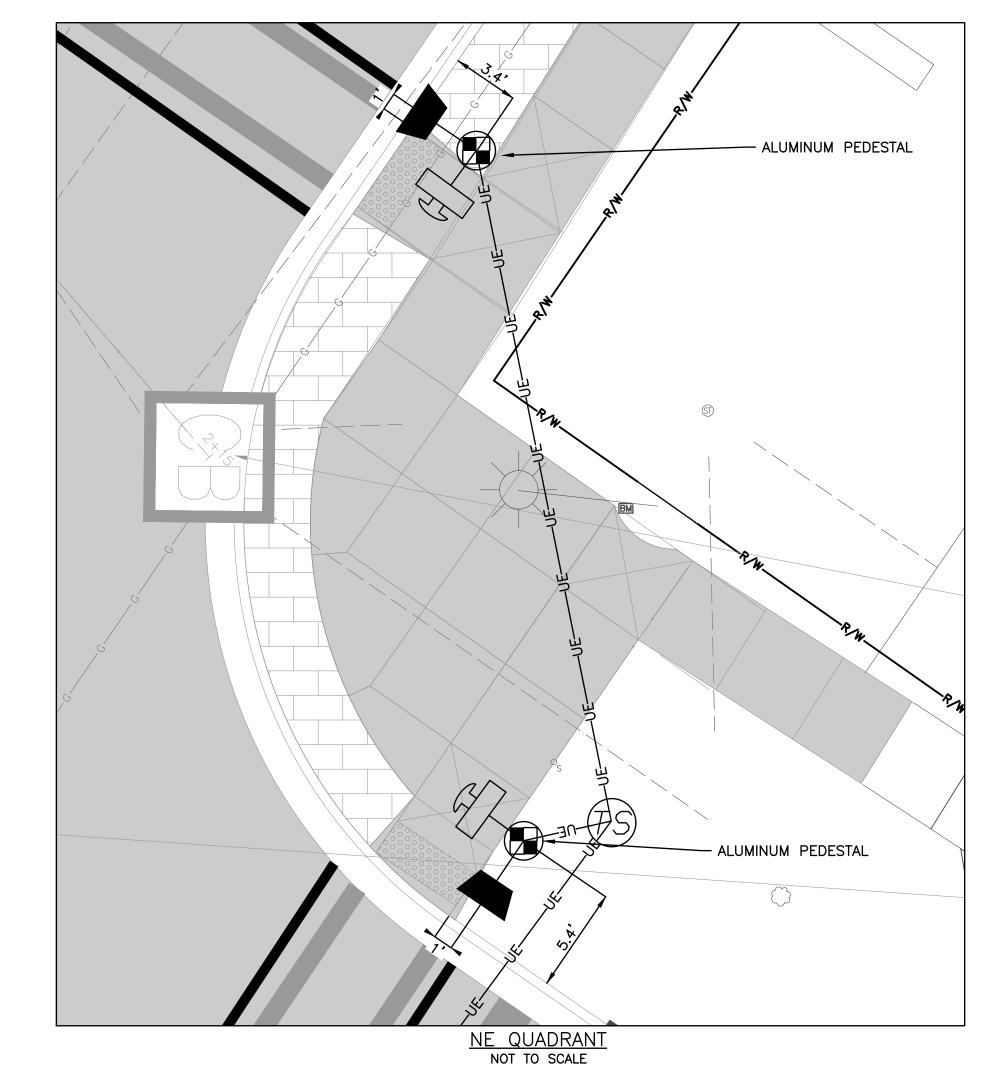
PLY2129-01T

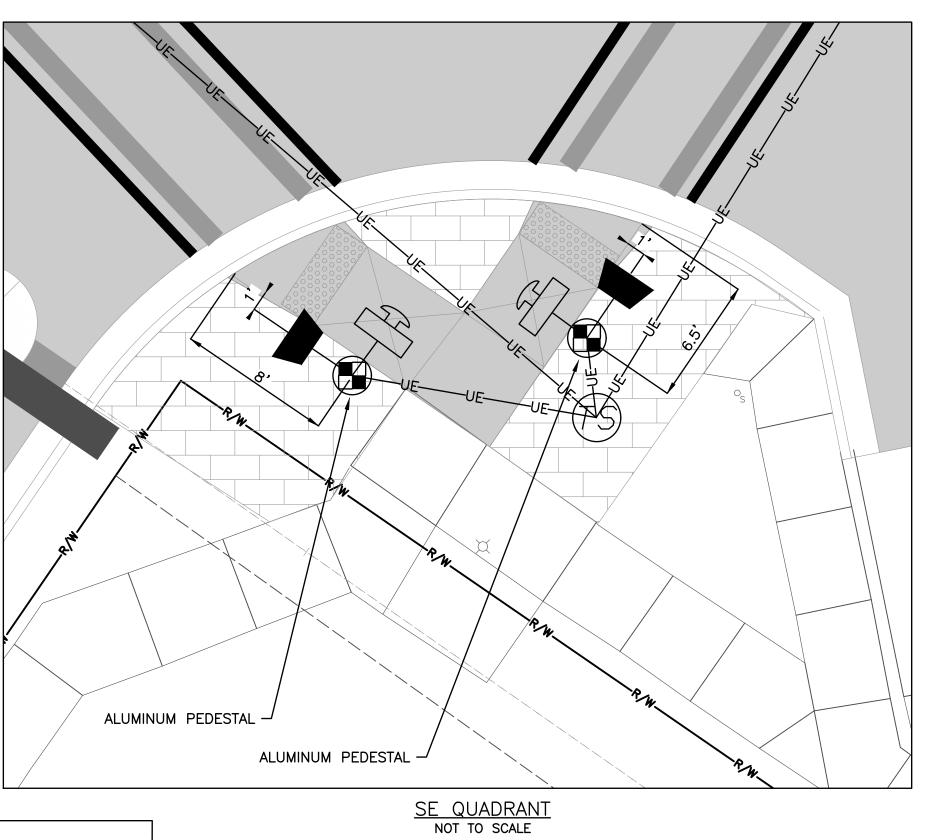




SW QUADRANT NOT TO SCALE

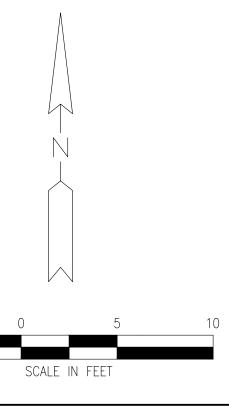
NOTES: FOR DETAILED SIDEWALK GRADING INFORMATION SEE GRADING DETAIL SHEETS.





THE CITY OF PLYMOUTH HAS RETAINED "RAUHORN ELECTRIC TO INSTALL THE NEW MAST ARMS AND PEDESTRIAN CROSSING SIGNALS

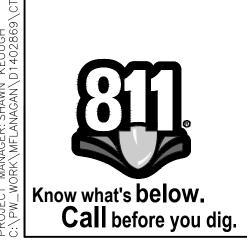
THE CONTRACTOR SELECTED BY THE CITY OF PLYMOUTH FOR THE 2024 INFRASTRUCTURE PROGRAM SHALL COORDINATE THEIR WORK IN COOPERATION WITH RAUHORN ELECTRIC

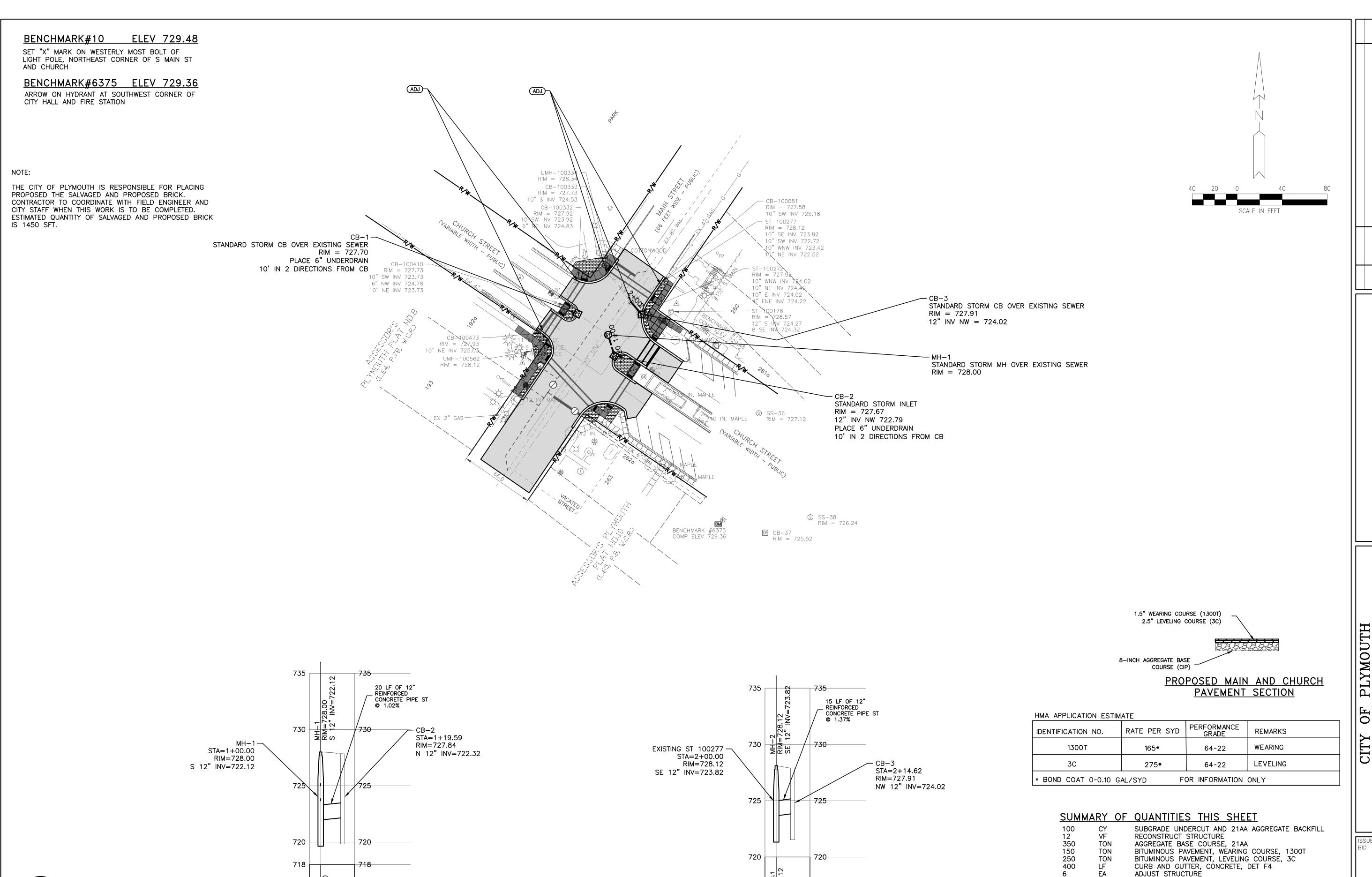


CITY OF PI 201 S M VAYNE COUNTY, 24 INFRASTRUCTURE I ISSUED FOR: DATE: BY: BID 3-25-24 SWK

PLY2129-01T

48170 Program





1+90 ᆜ

1+00

0+90 ᆜ

Know what's below.

Call before you dig.

<u></u> 1+30

CITY OF PLYMOUTH
201 S MAIN ST
WAYNE COUNTY, MICHIGAN 48170
324 INFRASTRUCTURE IMPROVEMENT PROGRA
CHURCH STREET
CHURCH STREET
CHURCH STREET

ISSUED FOR: DATE: BY:

JOB NO. PLY2129-01T

12

REMOVE AND REPLACE FRAME AND COVER

BUILD STANDARD CB OVER EXISTING SEWER

BUILD STANDARD MH OVER EXISTING SEWER

STANDARD STORM INLET

PAVEMENT MARKING

INLET FILTER

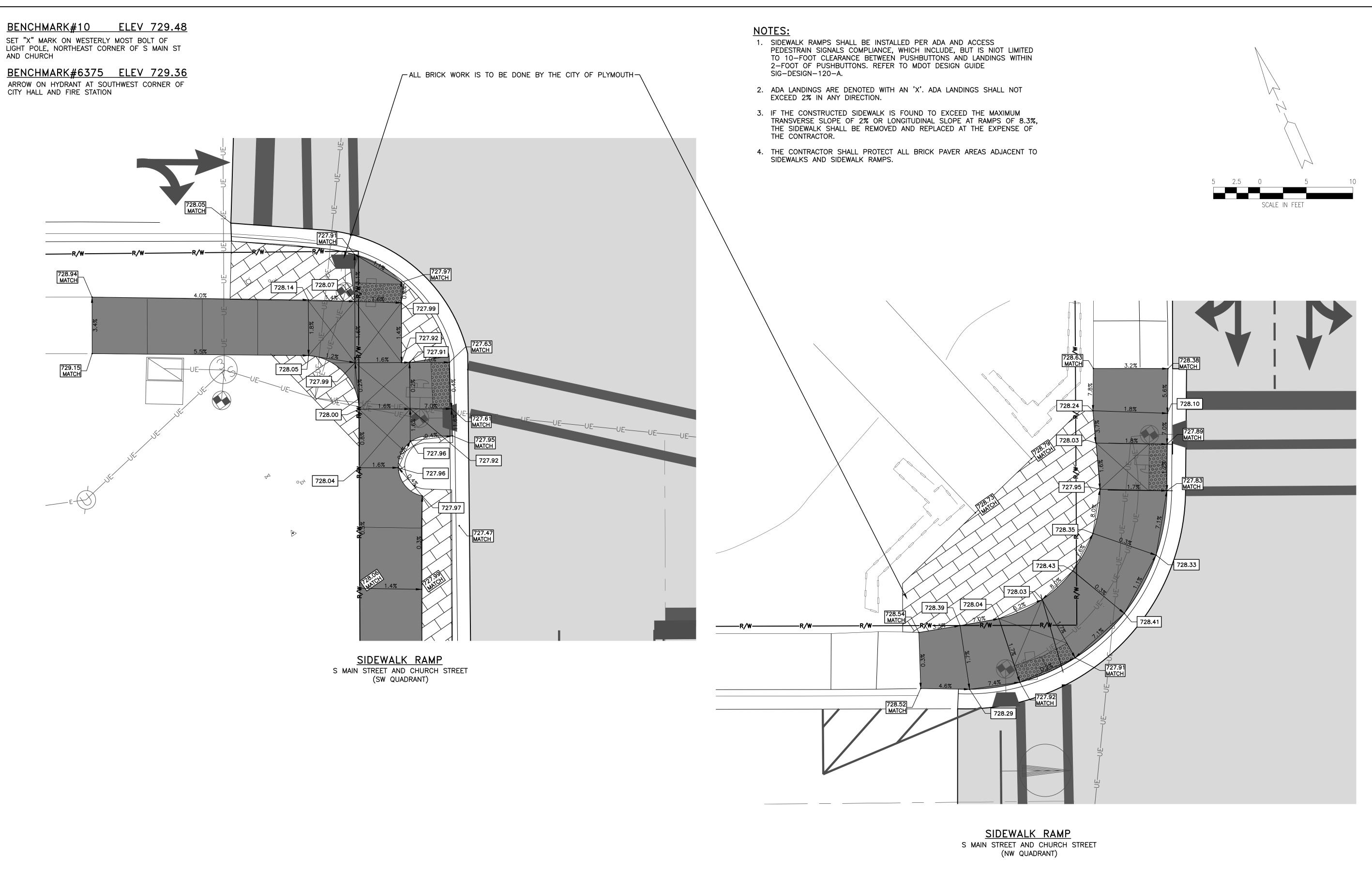
UNDERDRAIN, 6-INCH W/ GEOTEXTILE FABRIC WRAP 12-INCH STORM SEWER, C76 CLIV, TRENCH B

1745

EΑ

EΑ

LS

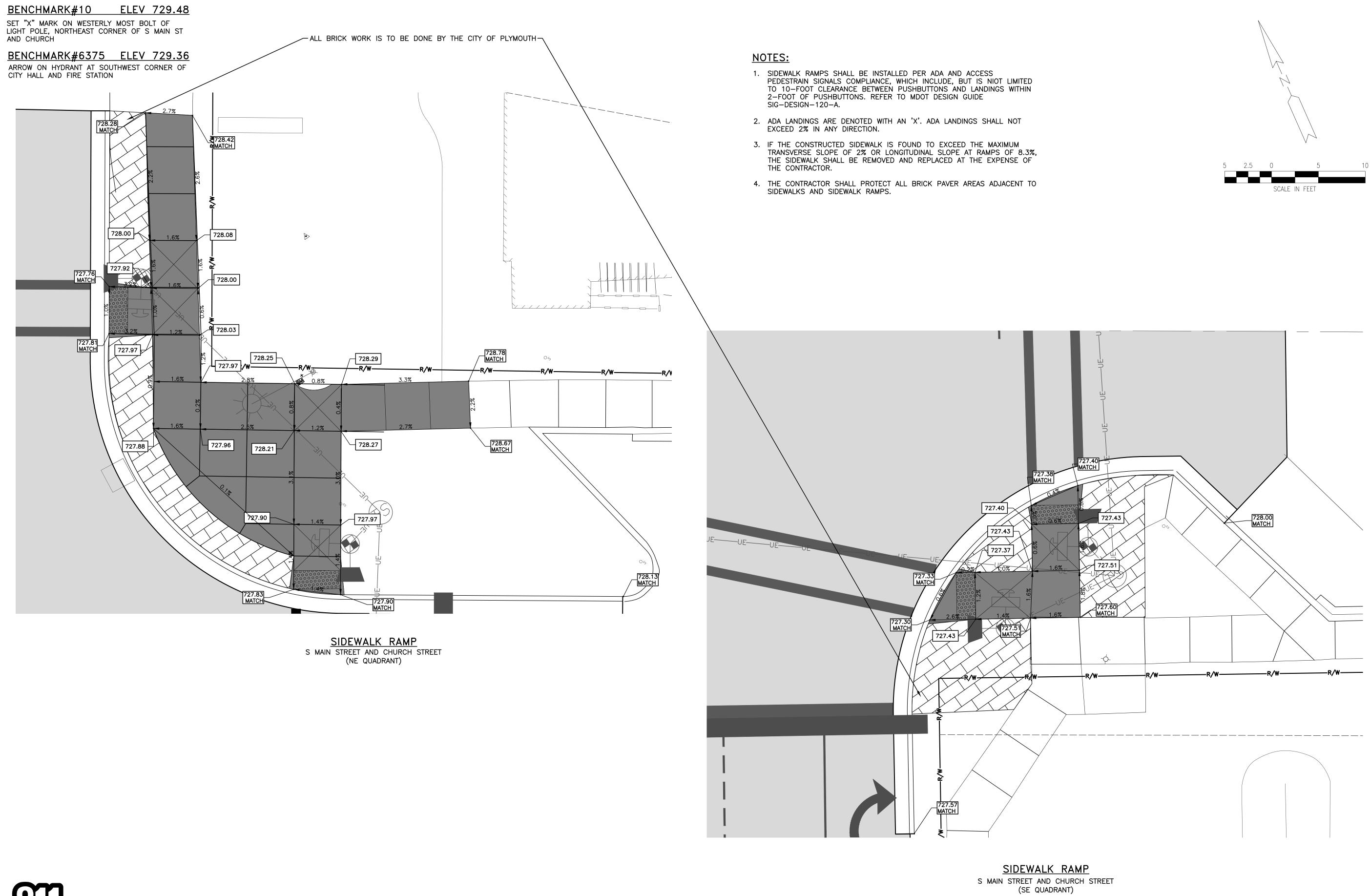


Know what's below.

Call before you dig.

SUMMARY OF QUANTITIES THIS SHEET SIDEWALK, CONCRETE, 4—INCH SIDEWALK RAMP, CONCRETE, 6—INCH

ISSUED FOR: DATE: BY: BID 3-25-24 SWK



Know what's below.
Call before you dig.

SUMMARY OF QUANTITIES THIS SHEET

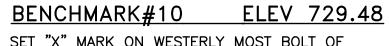
600 SF SIDEWALK, CONCRETE, 4-INCH
85 SF SIDEWALK RAMP, CONCRETE, 6-INCH

JOB NO. PLY2129-01T

CITY OF PI 201 S M EXETRUCTURE I CHURCH RAMPS NE AN

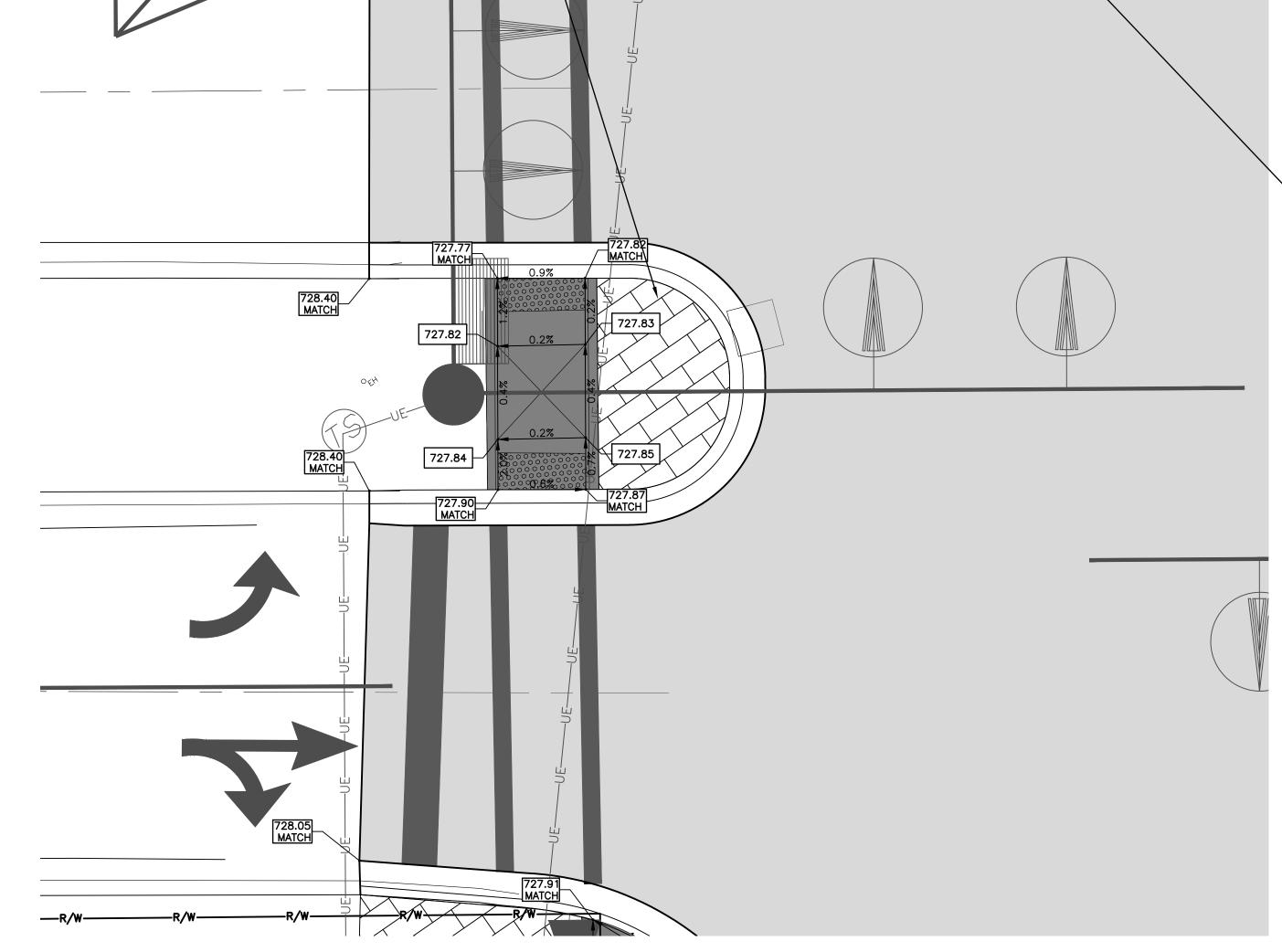
14

ISSUED FOR: DATE: BY: BID 3-25-24 SWK



SET "X" MARK ON WESTERLY MOST BOLT OF LIGHT POLE, NORTHEAST CORNER OF S MAIN ST AND CHURCH

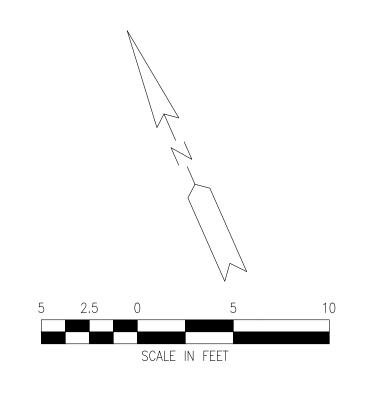
BENCHMARK#6375 ELEV 729.36 ARROW ON HYDRANT AT SOUTHWEST CORNER OF CITY HALL AND FIRE STATION -ALL BRICK WORK IS TO BE DONE BY THE CITY OF PLYMOUTH-

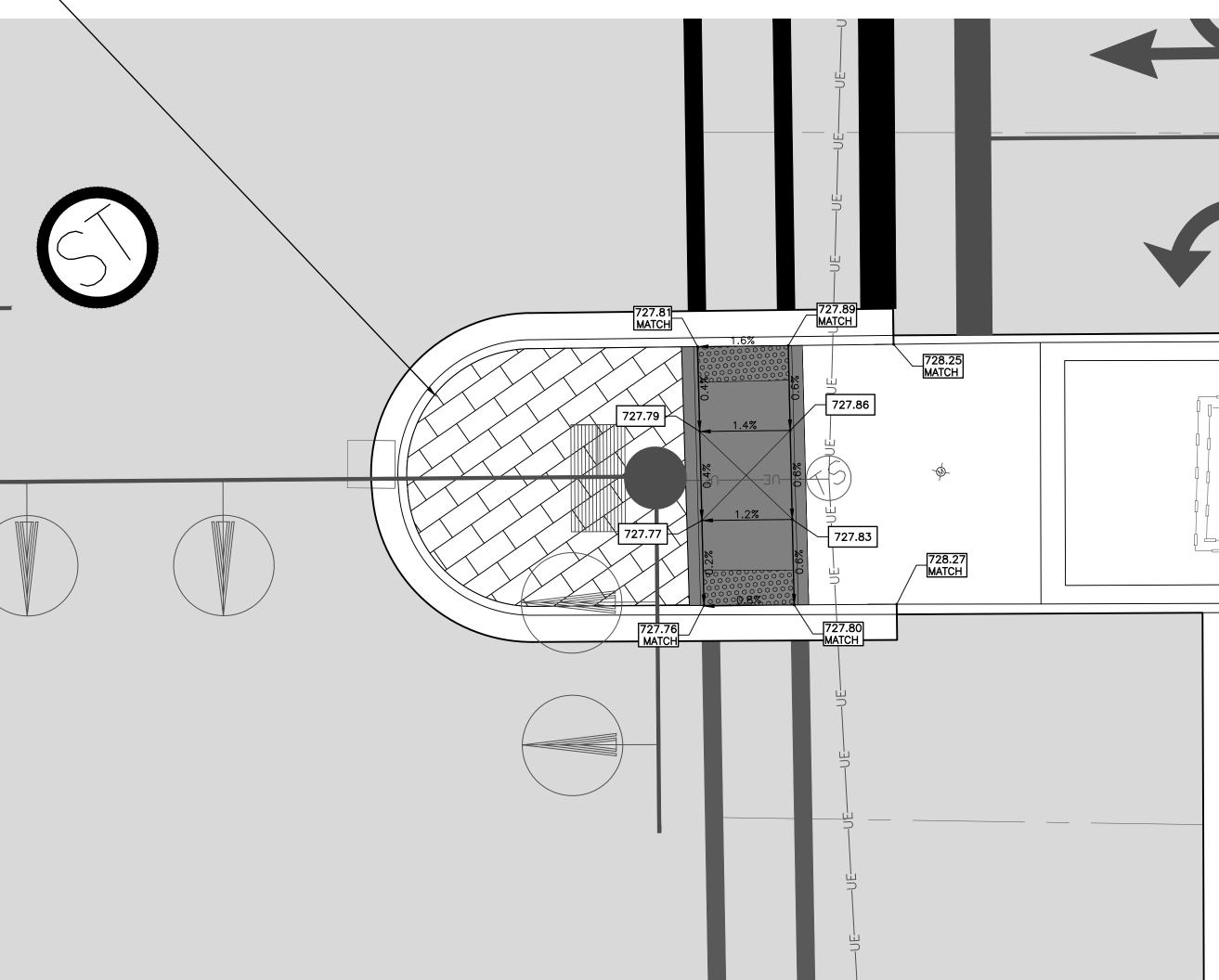


SIDEWALK RAMP
S MAIN STREET AND CHURCH STREET
(W MEDIAN)

NOTES:

- 1. SIDEWALK RAMPS SHALL BE INSTALLED PER ADA AND ACCESS PEDESTRAIN SIGNALS COMPLIANCE, WHICH INCLUDE, BUT IS NIOT LIMITED TO 10-FOOT CLEARANCE BETWEEN PUSHBUTTONS AND LANDINGS WITHIN 2-FOOT OF PUSHBUTTONS. REFER TO MDOT DESIGN GUIDE SIG-DESIGN-120-A.
- 2. ADA LANDINGS ARE DENOTED WITH AN 'X'. ADA LANDINGS SHALL NOT EXCEED 2% IN ANY DIRECTION.
- 3. IF THE CONSTRUCTED SIDEWALK IS FOUND TO EXCEED THE MAXIMUM TRANSVERSE SLOPE OF 2% OR LONGITUDINAL SLOPE AT RAMPS OF 8.3%, THE SIDEWALK SHALL BE REMOVED AND REPLACED AT THE EXPENSE OF THE CONTRACTOR.
- 4. THE CONTRACTOR SHALL PROTECT ALL BRICK PAVER AREAS ADJACENT TO SIDEWALKS AND SIDEWALK RAMPS.





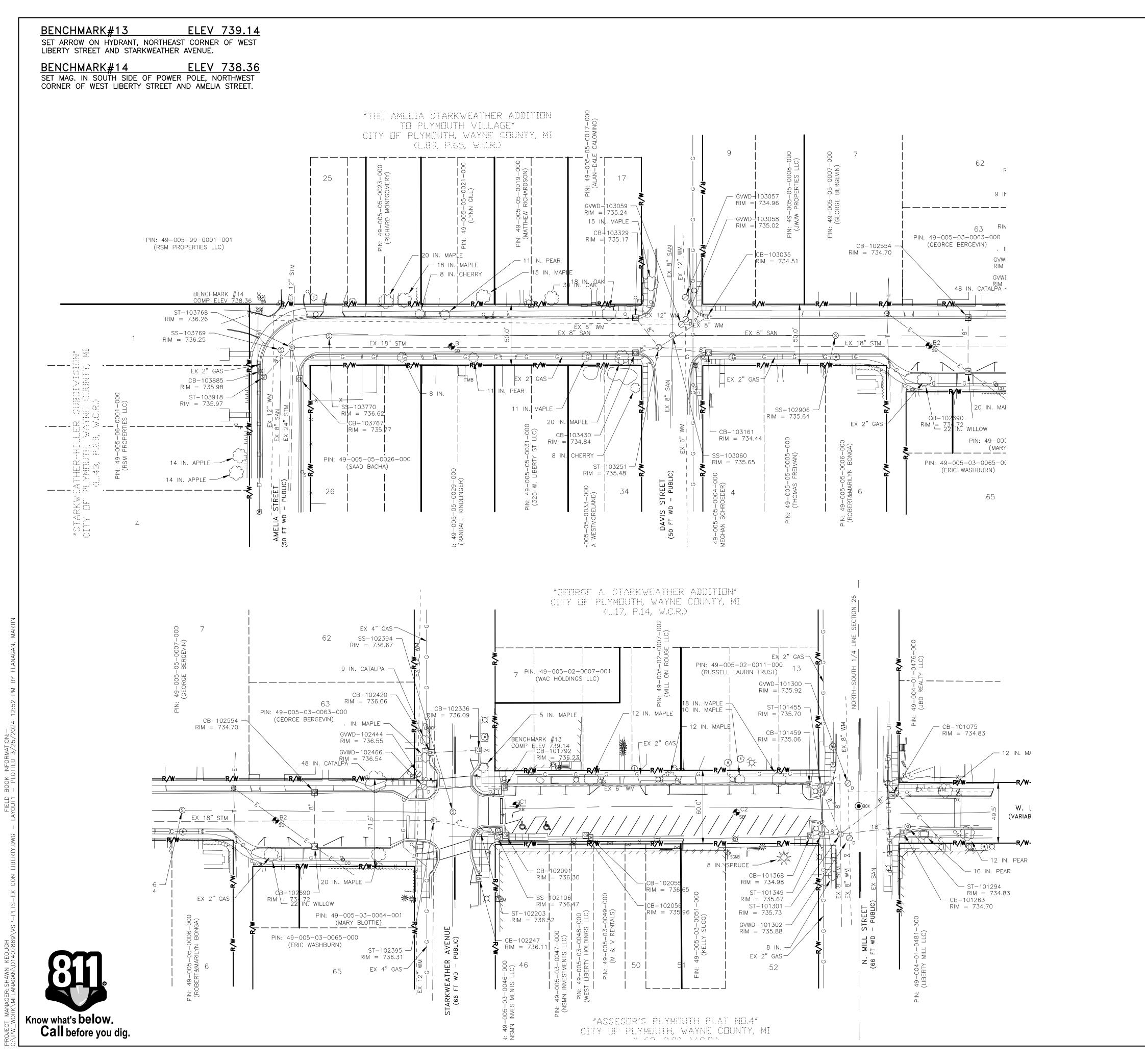
SIDEWALK RAMP S MAIN STREET AND CHURCH STREET (E MEDIAN)

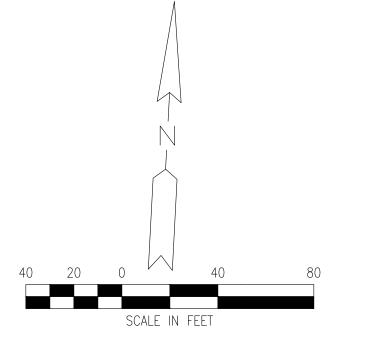


SUMMARY OF QUANTITIES THIS SHEET SIDEWALK RAMP, CONCRETE, 6-INCH

48170 PROGRAM

ISSUED FOR: DATE: BY: BID 3-25-24 SWK





STRUCTURE INVENTORY

CB-101075 RIM = 734.83(FULL OF DEBRIS/NO VISIBLE PIPE)

CB-101263

GVWD-101300

RIM = 734.708" CLAY NORTHEAST INVERT = 731.40

ST-101294 RIM = 734.83 18" RCP WEST INVERT = 727.4318" RCP EAST INVERT = 727.238" CLAY SOUTHWEST INVERT = 730.83

RIM = 735.928" STEEL NORTH/SOUTH T/P = 731.92

ST-101301 RIM = 735.738" CLAY WEST INVERT = 728.48 8" CLAY SOUTH INVERT = 729.83 8" CLAY NORTHWEST INVERT = 729.83 8" CLAY NORTHEAST INVERT = 730.53 8" CLAY NORTH INVERT = 731.0318" RCP EAST INVERT = 727.73

8" STEEL NORTH/SOUTH T/P = 731.39

RIM = 735.676" PVC WEST INVERT = 730.47

CB-101792 RIM = 736.23

RIM = 736.658" CLAY NORTHWEST INVERT = 732.45

RIM = 735.96(FULL OF LEAVES)

SS-102106RIM = 736.47 8" PLASTIC WEST INVERT = 731.67 3" PLASTIC EAST INVERT = 731.87 4" CONC EAST INVERT = 731.17

RIM = 736.526" PLASTIC EAST INVERT = 732.42

CB-102247 RIM = 736.11 RIM = 736.09

RIM = 736.67(COULD NOT OPEN)

RIM = 736.31

RIM = 736.06

GVWD-102444 RIM = 736.55

GVWD-102466 CB-102554

GVWD-101302

ST-101349 8" CPP NORTH INVERT = 731.97 12" RCP EAST INVERT = 728.17

CB-101368 RIM = 734.986" PVC EAST INVERT = 730.78

ST-101455 RIM = 735.706" PVC WEST INVERT = 732.3 6" CLAY SOUTH INVERT = 732.20 12" CLAY EAST INVERT = 730.60

RIM = 735.064" CPP WEST INVERT = 732.96 6" PVC EAST INVERT = 732.46

4" PVC SOUTH INVERT = 733.53

CB-102055

CB-102056

CB-102091 RIM = 736.304" PVC NORTH INVERT = 732.80 4" PVC WEST INVERT = 732.80

8" PLASTIC SOUTH INVERT = 733.52

8" PLASTIC NORTH INVERT = 733.81

6" CLAY SOUTHWEST INVERT = 732.89 SS-102394

ST-102395

(COULD NOT OPEN) CB-102420

4" CLAY EAST INVERT = 732.46

12" STEEL NORTH/SOUTH T/P = 731.15

RIM = 736.546" STEEL EAST/WEST T/P = 730.94

RIM = 734.70

8" CLAY SOUTH INVERT = 730.20 CB-102690

RIM = 734.728" CLAY NORTH INVERT = 729.82 SS-102906

RIM = 735.648" CLAY EAST-WEST INVERT = 728.64 CB-103035

RIM = 734.518" CLAY SOUTHWEST INVERT = 730.11 GVWD-103057

RIM = 734.966" STEEL NORTH/SOUTH T/P = 731.96

GVWD-103058 RIM = 735.026" STEEL EAST/WEST T/P = 731.02

RIM = 735.246" STEEL EAST/WEST T/P = 732.24

RIM = 735.658" CLAY SOUTH INVERT = 728.25 8" CLAY EAST INVERT = 728.30 8" RCP WEST INVERT = 728.30

CB-103161 RIM = 734.44

8" RCP NORTH INVERT = 728.30

8" CLAY WEST INVERT = 730.44 ST-103251 RIM = 735.48

18" RCP WEST INVERT = 727.1818" RCP EAST INVERT = 727.18 8" CLAY NORTHWEST INVERT = 730.18 8" CLAY SOUTHWEST INVERT = 729.48 8" CLAY NORTHEAST INVERT = 729.78 8" CLAY EAST/SOUTHEAST INVERT = 729.68

RIM = 735.178" CLAY SOUTHEAST INVERT = 729.17 CB-103430

RIM = 734.848" CLAY EAST INVERT = 730.34 CB-103767

RIM = 735.77

8" SUMP NORTHWEST INVERT = 727.47 ST-103768 RIM = 736.2624" RCP SOUTH INVERT = 726.66

8" SUMP SOUTHEAST INVERT = 729.26 12" RCP NORTH INVERT = 728.26 18" RCP EAST INVERT = 726.86SS-103769 RIM = 736.25

8" RCP SOUTH INVERT = 729.00 SS-103770 RIM = 736.628" RCP EAST INVERT = 729.52

CB-103885 RIM = 735.9812" RCP SOUTHEAST INVERT = 733.08

ST-103918 RIM = 735.9712" RCP NORTHWEST INVERT = 732.67 8" SUMP NORTHEAST INVERT = 731.57

PLYMOUTH
MAIN ST

, MICHIGAN

E IMPROVEMENT

TY STREET

TO STREET

CONDITIONS CITY OF P 201 S N COUNTY, YNE

25251 Northline Taylor, MI 4818 734.947.9700 www.wadetrim.o

.70 GRA

4

PLY2129-01T

ISSUED FOR: DATE: BY: BID 3-25-24 SWK

ALL MILLINGS SHALL BE DELIVERED BY CONTRACTOR TO RIVERSIDE CEMETARY 680 PLYMOUTH ROAD, PLYMOUTH MI THIS WILL BE PAID FOR IN THE COST OF MILLING PAVEMENT

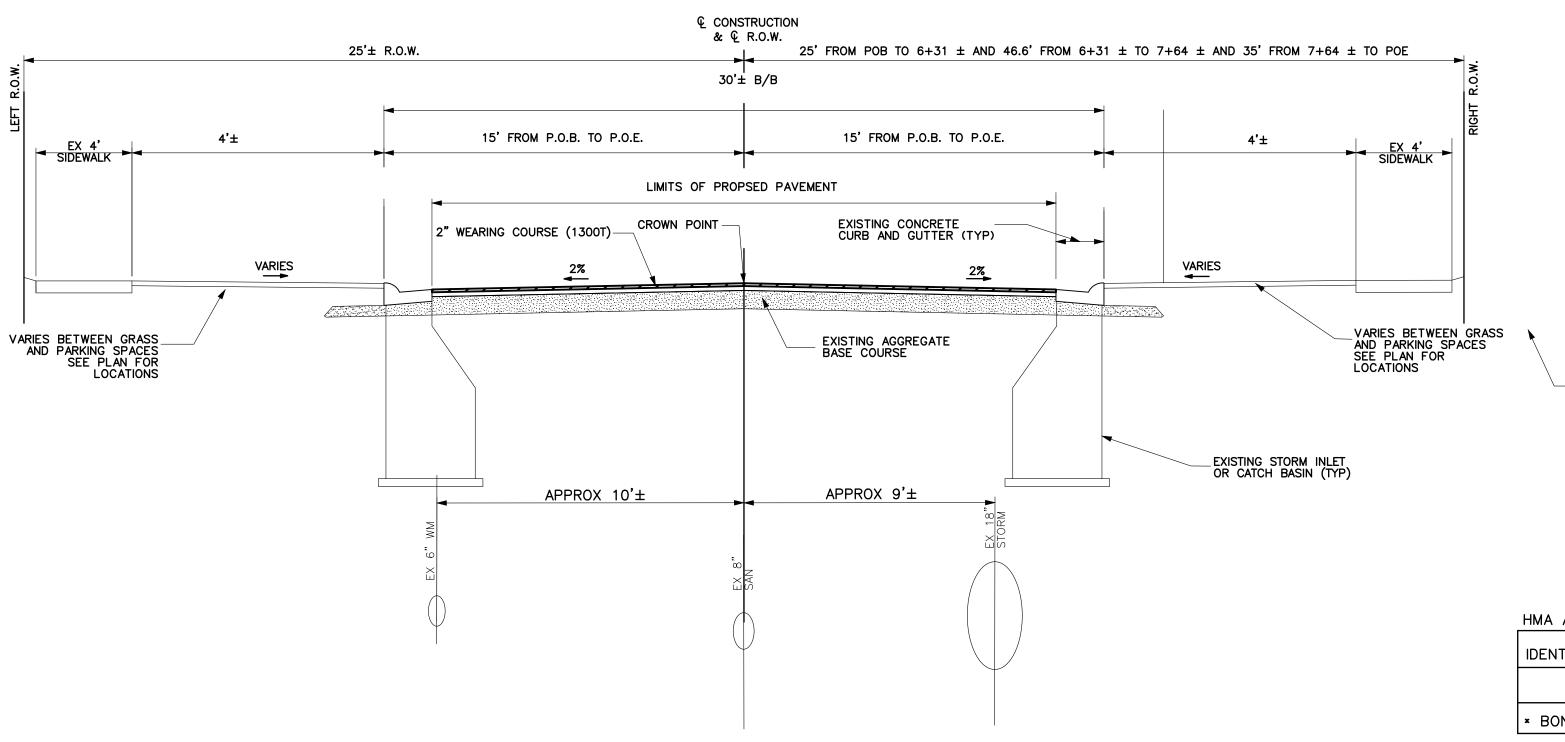
* FROM POB TO STA 4+09 EXISTING PAVEMENT THICKNESS 4.75" BITUMINOUS PAVEMENT AND 6.25" CRUSHED LIMESTONE. FROM STA 4+09 TO STA 7+64 EXISTING PAVEMENT THICKNESS IS 4.25" BITUMINOUS PAVEMENT AND 9.75" FURNACE SLAG. FROM STA 7+64 TO STA 10+89 EXISTING PAVEMENT AVERAGES 3.63" BITUMINOUS PAVEMENT AND 6.63" CONCRETE. PLEASE SEE PAVEMENT CORE FOR MORE DETAIL.

BORING	ROAD	ASPHALT	CONCRETE	BASE	BASE MATERIAL
C1	LIBERTY	3.5"	6.25"	NOT ENCOUNTERED	NOT ENCOUNTERED
C2	LIBERTY	3.75"	7"	NOT ENCOUNTERED	NOT ENCOUNTERED
B1	LIBERTY	4.75"	NOT ENCOUNTERED	6.25"	NOT ENCOUNTERED
B2	LIBERTY	4.25"	NOT ENCOUNTERED	9.75"	NOT ENCOUNTERED

INFORMATION IN THE ABOVE CHART IS TAKEN FROM THE SME GEOTECHNICAL REPORT. FOR FURTHER DETAILES PEASE SEE REPORT FOUND IN THE PROPOSAL

EXISTING TYPICAL CROSS SECTION LIBERTY STREET

P.O.B. STA 0+16.50 TO P.O.E. STA 10+86.42 NOT TO SCALE



* FROM STA 6+08 TO POE ON THE SOUTH SIDE OF LIBERTY, THE PARKING AREA SHALL HAVE THE SAME CROSS SECTION AS THE PROPOSED PAVEMENT

HMA APPLICATION ESTIMATE

_SOUTH BRANCH TONQUISH CREREK

IDENTIFICATION NO.	RATE PER SYD	PERFORMANCE GRADE	REMARKS
1300T	220*	64-22	WEARING
* BOND COAT 0-0.10 G	AL/SYD FO	OR INFORMATION	ONLY

PROPOSED TYPICAL CROSS SECTION LIBERTY STREET

P.O.B. STA 0+16.50 TO P.O.E. STA 10+86.42

NOT TO SCALE

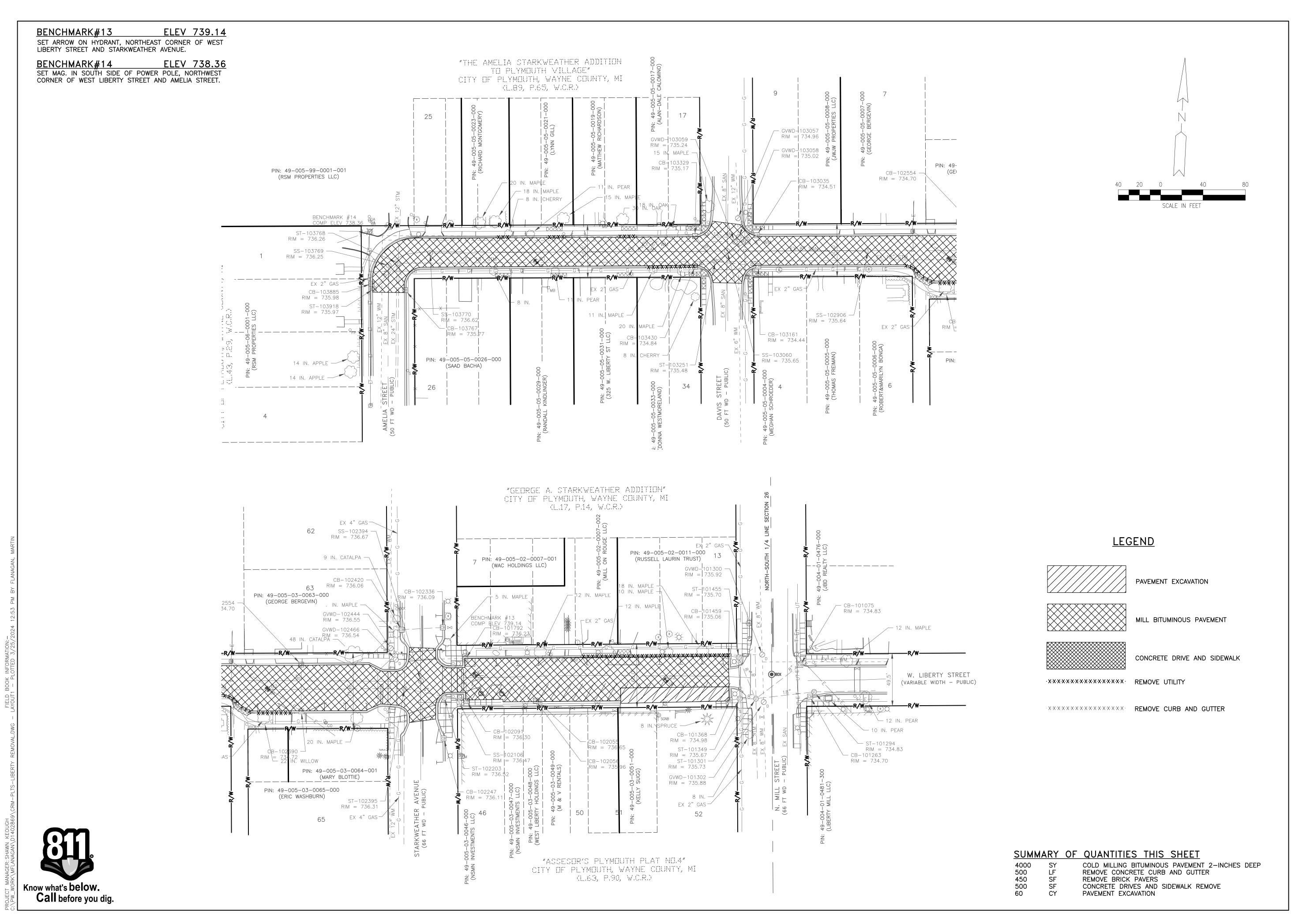
Know what's below. Call before you dig.

48170 PROGRAM

CITY OF E 201 S COUNTY,

VAYNE COUNII,
24 INFRASTRUCTURE
LIBERTY
AND PI

ISSUED FOR: DATE: BY: BID 3-25-24 SWK



25251 Northline Rd. Taylor, MI 48180 734.947.9700 www.wadetrim.com . 70 GRA

CITY OF PLYMOUTH
201 S MAIN ST
E COUNTY, MICHIGAN
RASTRUCTURE IMPROVEMENT ILIBERTY STREET
REMOVAL PLAN

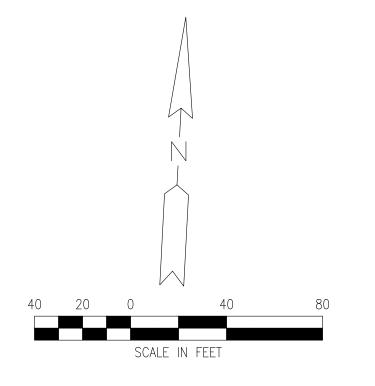
ISSUED FOR: DATE: BY: BID 3-25-24 SWK

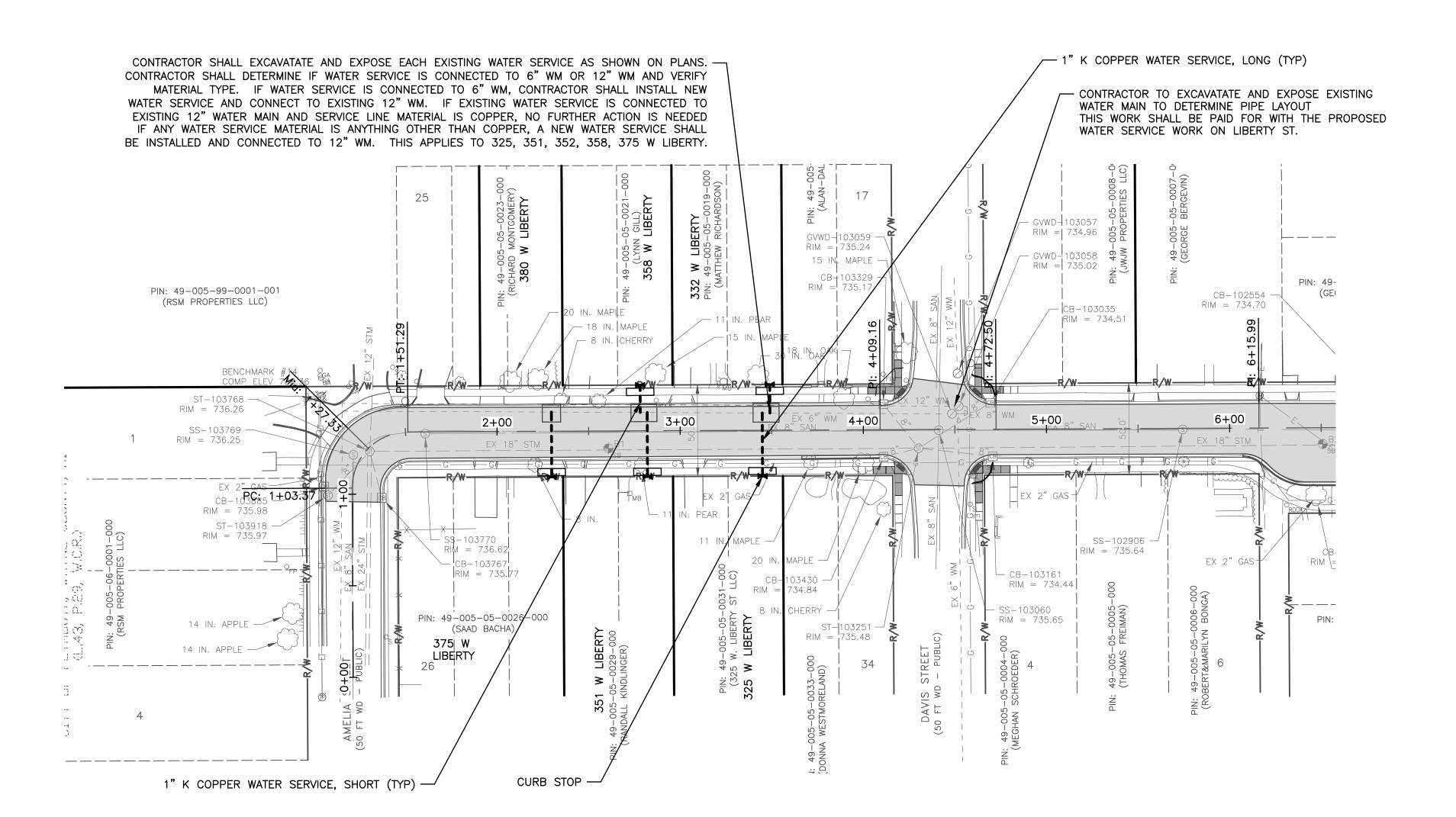
BENCHMARK#13 ELEV 739.14

SET ARROW ON HYDRANT, NORTHEAST CORNER OF WEST LIBERTY STREET AND STARKWEATHER AVENUE.

BENCHMARK#14 ELEV 738.36

SET MAG. IN SOUTH SIDE OF POWER POLE, NORTHWEST CORNER OF WEST LIBERTY STREET AND AMELIA STREET.





SUMMARY OF QUANTITIES THIS SHEET

2 EA 1-INCH, K COPPER WAER SERVICE, SHORT 3 EA 1-INCH, K COPPER WATER SERVICE, LONG 5 EA CURB STOP AND BOX

Know what's below.
Call before you dig.

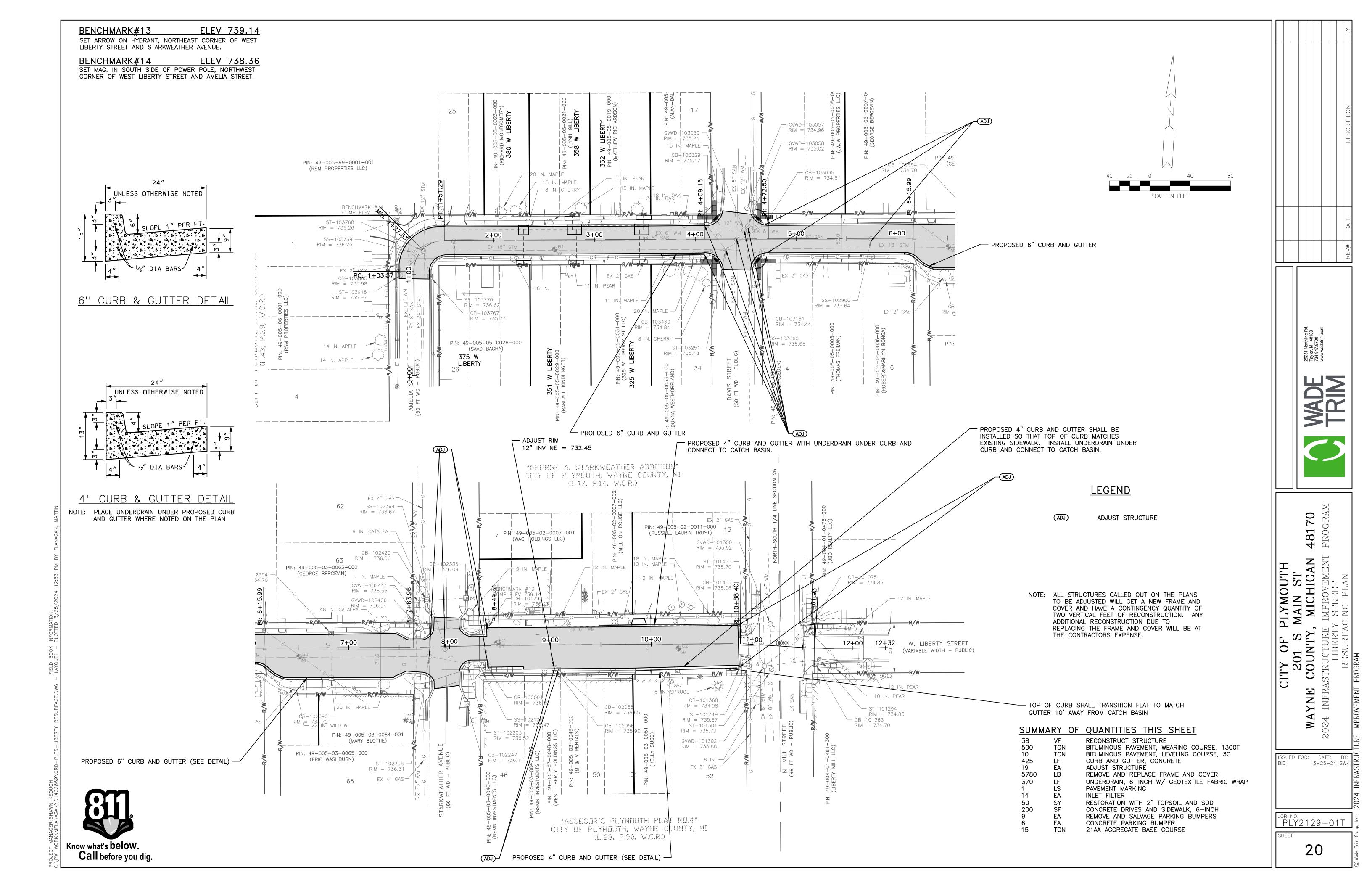
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CITY OF PLYMOUTH
201 S MAIN ST
E COUNTY, MICHIGAN ARASTRUCTURE IMPROVEMENT INBERTY STREET
WATER SERVICE PLAN

25251 Northline Rd. Taylor, MI 48180 734.947.9700 www.wadetrim.com

PLY2129-01T

SHEET

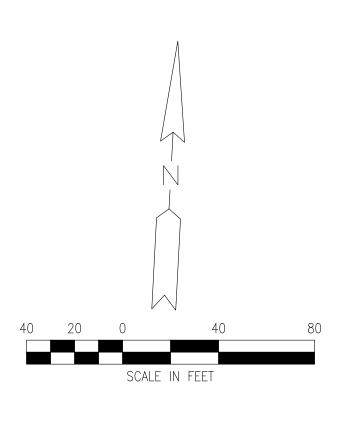


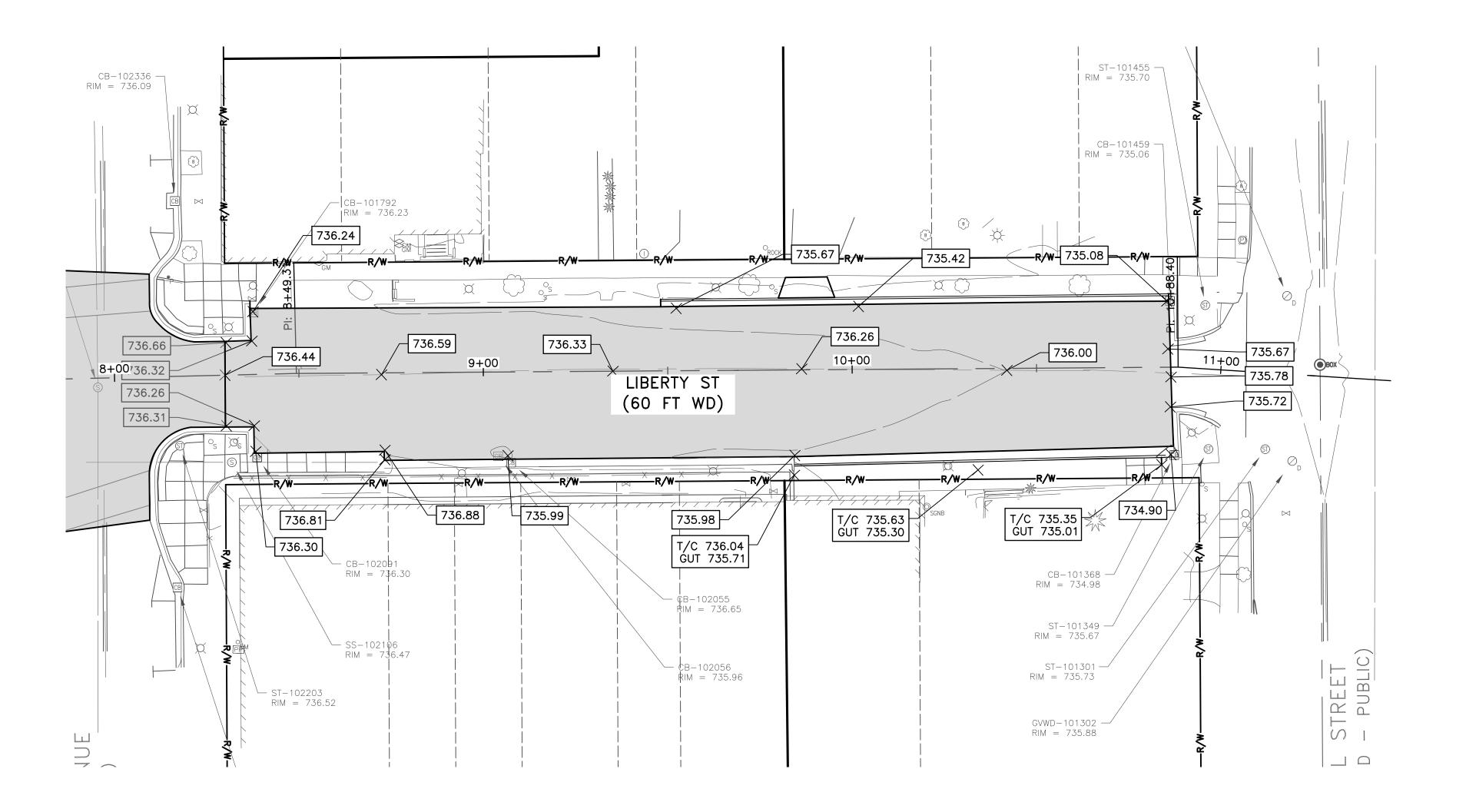
BENCHMARK#13 ELEV 739.14

SET ARROW ON HYDRANT, NORTHEAST CORNER OF WEST LIBERTY STREET AND STARKWEATHER AVENUE.

BENCHMARK#14 ELEV 738.36

SET MAG. IN SOUTH SIDE OF POWER POLE, NORTHWEST CORNER OF WEST LIBERTY STREET AND AMELIA STREET.





Know what's below.
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CITY OF PLYMOUTH
201 S MAIN ST
202 MAYNE COUNTY, MICHIGAN 4

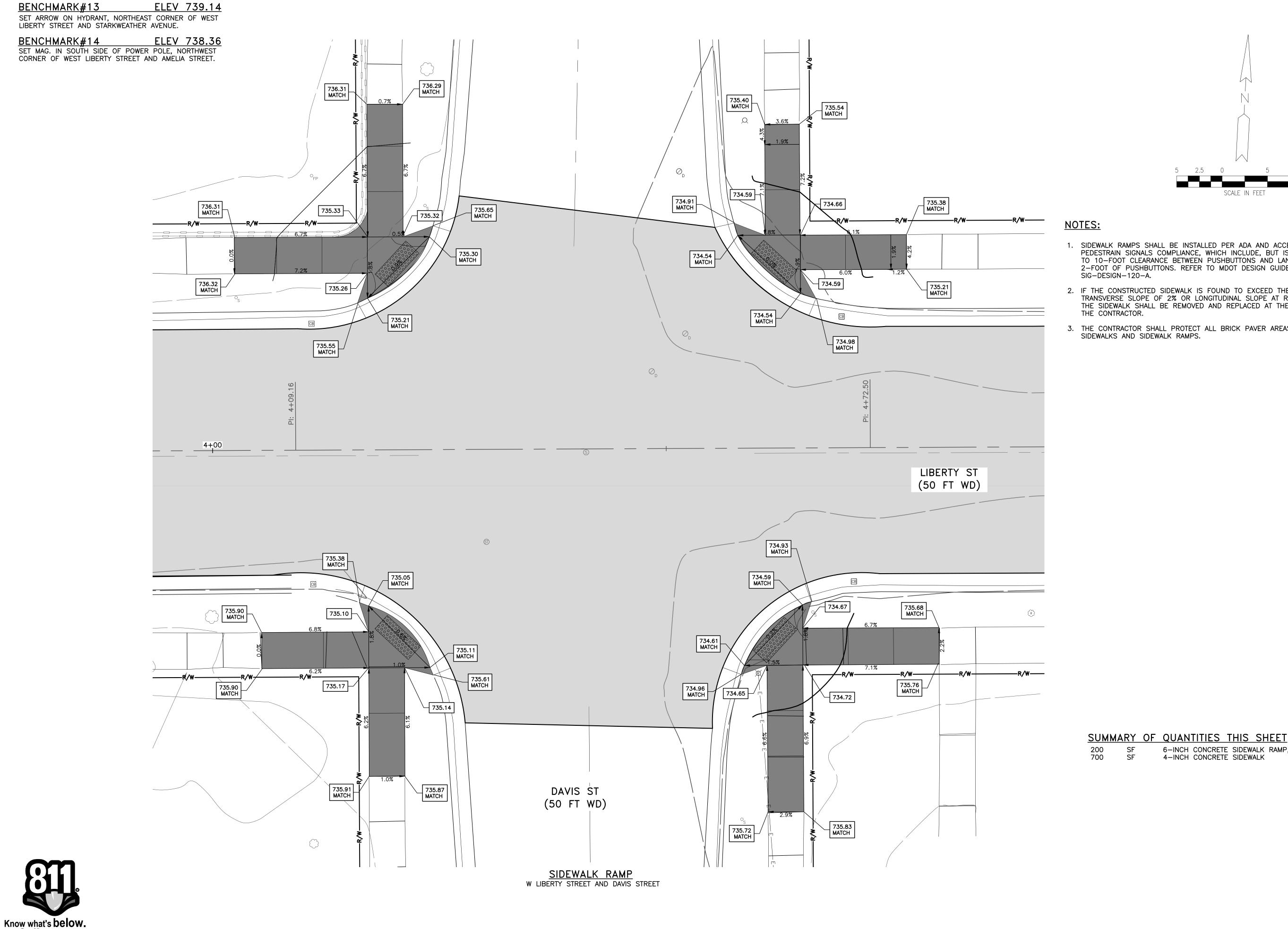
2024 INFRASTRUCTURE IMPROVEMENT P
LIBERTY STREET
GRADING PLAN
GRADING PLAN

48170 Program

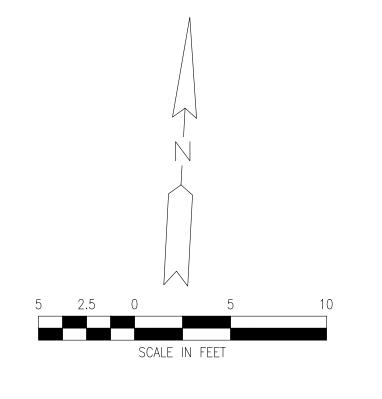
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ISSUED FOR: DATE: BY: BID 3-25-24 SWK

PLY2129-01T



Call before you dig.



- SIDEWALK RAMPS SHALL BE INSTALLED PER ADA AND ACCESS PEDESTRAIN SIGNALS COMPLIANCE, WHICH INCLUDE, BUT IS NOT LIMITED TO 10-FOOT CLEARANCE BETWEEN PUSHBUTTONS AND LANDINGS WITHIN 2-FOOT OF PUSHBUTTONS. REFER TO MDOT DESIGN GUIDE SIG-DESIGN-120-A.
- 2. IF THE CONSTRUCTED SIDEWALK IS FOUND TO EXCEED THE MAXIMUM TRANSVERSE SLOPE OF 2% OR LONGITUDINAL SLOPE AT RAMPS OF 8.3%, THE SIDEWALK SHALL BE REMOVED AND REPLACED AT THE EXPENSE OF THE CONTRACTOR.
- 3. THE CONTRACTOR SHALL PROTECT ALL BRICK PAVER AREAS ADJACENT TO SIDEWALKS AND SIDEWALK RAMPS.

6-INCH CONCRETE SIDEWALK RAMP, ADA 4-INCH CONCRETE SIDEWALK

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CITY OF PI 201 S M E COUNTY,

AYNE

ISSUED FOR: DATE: BY: BID 3-25-24 SWK



ROAD R11-2 48"x30"

- 1. CONSTRUCTION, WARNING, REGULATORY, AND GUIDE SIGNS SHOWN MUST BE PLACED ACCORDING TO MDOT'S WORK ZONE SAFETY AND MOBILITY MANUAL AND MAY REQUIRE FIELD ADJUSTMENTS AS DIRECTED BY THE ENGINEER.
- 2. TRAFFIC SHALL BE MAINTAINED ACCORDING TO MDOT'S STANDARD SPECIFICATIONS, MDOT'S WORK ZONE SAFETY AND MOBILITY MANUAL, AND AS SPECIFIED IN THIS PLAN SHEET.
- 3. AT LEAST ONE ACCESS TO BUSINESSES AND RESIDENTS MUST BE MAINTAINED AT ALL TIME.
- 4. UTILIZE TRAFFIC REGULATORS WHEN NEEDED TO MAINTAIN TRAFFIC AT INTERSECTIONS.
- 5. CONTRACTOR SHALL MAINTAIN PEDESTRIAN ACCESS DURING CONSTRUCTION.

<u>LEGEND</u>

TEMPORARY TRAFFIC SIGN

BARRICADE, TYPE III, HIGH INTENSITY

WORK ZONE

TRAFFIC FLOW

Know what's below.

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CITY OF PLYMOUTH
201 S MAIN ST
E COUNTY, MICHIGAN
RASTRUCTURE IMPROVEMENT
MAINTAINCE OF TRAFFIC
LIBERTY AND SPRING

ISSUED FOR: DATE: BY: BID 3-25-24 SWK

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WITH TYPE III
BARRICADES. R11-2
SHALL BE PLACED ON
SEPARATE SIGN SUPPORT
BEHIND BARRICADES.

SUMMARY OF QUANTITIES THIS SHEET (INFORMATION ONLY)

78 SF SIGN, TYPE B, TEMP, PRISMATIC

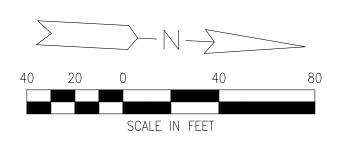
8 EA BARRICADE, TYPE III, HIGH INTENSITY

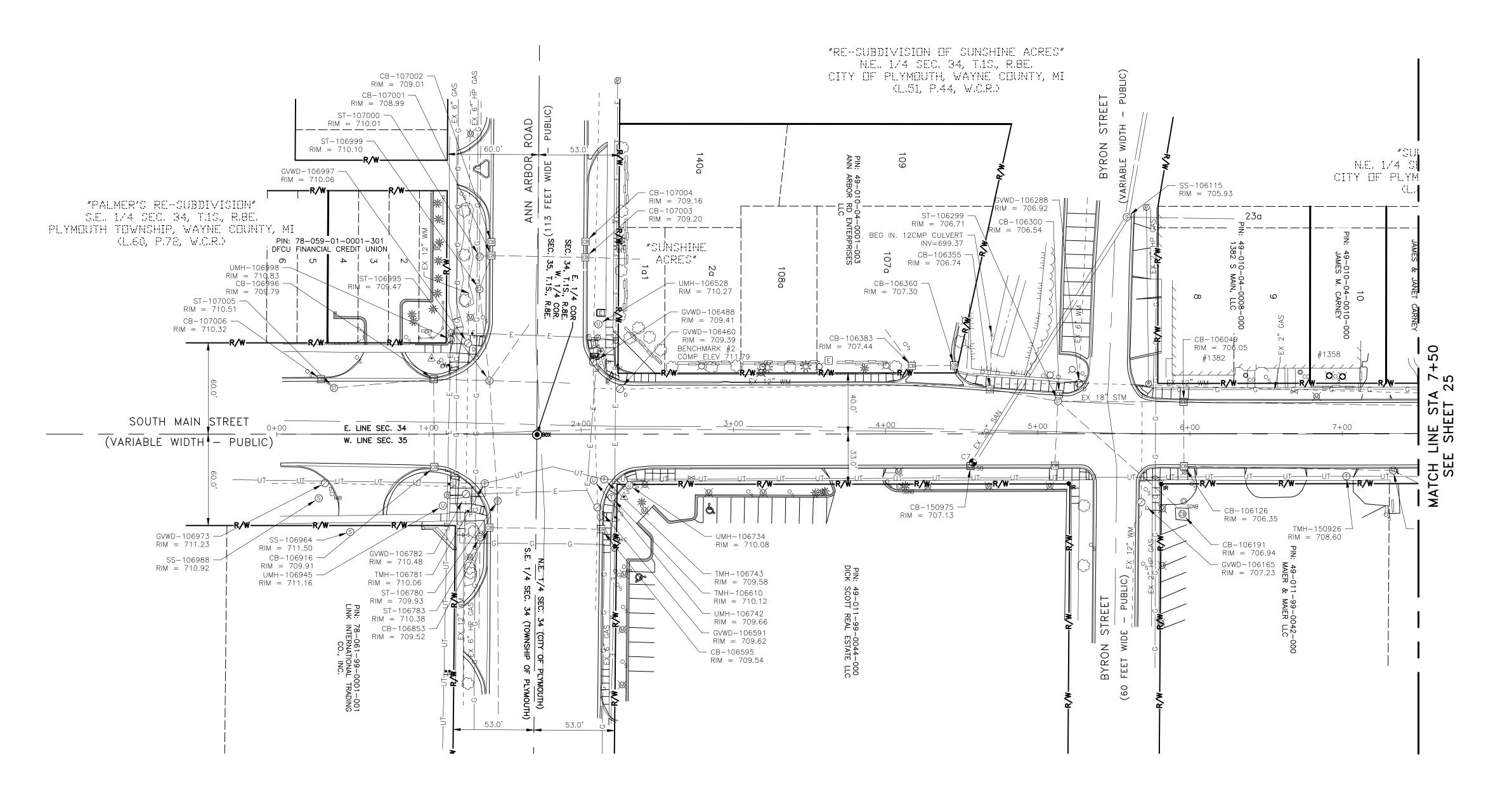
BENCHMARK#2 ELEV 711.79

ARROW ON HYDRANT NORTHWEST QUADRANT OF ANN ARBOR ROAD AND MAIN STREET.

BENCHMARK#3 ELEV 713.53

NORTHEAST BOLT ON LIGHT POST BASE,
SOUTHWEST QUADRANT OF MAIN STREET AND
SIMPSON AVENUE.





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CITY OF PLYMOUTH
201 S MAIN ST
WAYNE COUNTY, MICHIGAN 4
2024 INFRASTRUCTURE IMPROVEMENT P
S MAIN STREET
S MAIN STREET
EXISTING CONDITIONS STA 0+00 TO ST

48170 PROGRAM

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ISSUED FOR: DATE: BY: BID 3-25-24 SWK

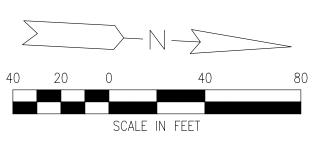
JOB NO. PLY2129-01T

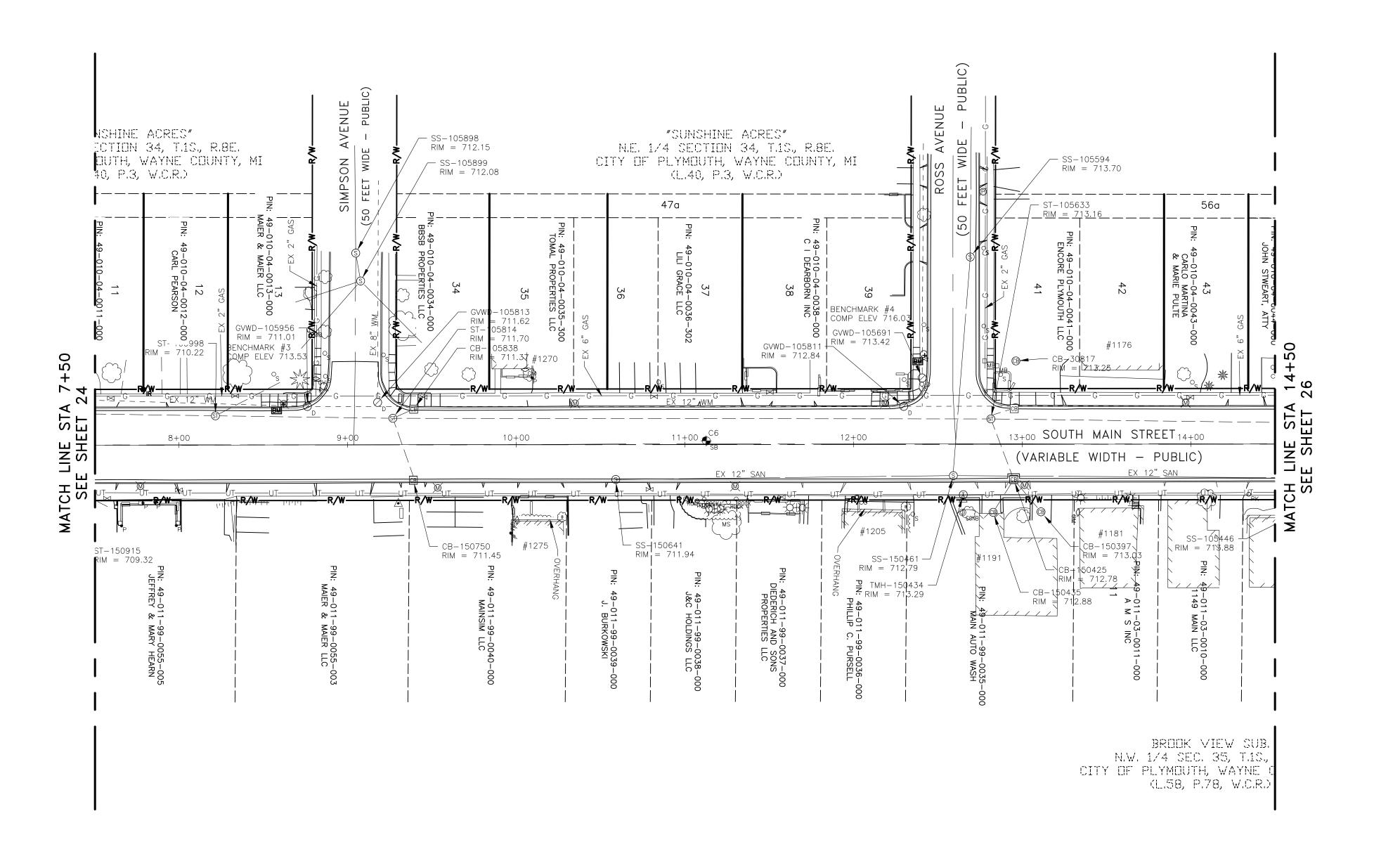
BENCHMARK#4 ELEV 716.03

ARROW ON HYDRANT SOUTHWEST QUADRANT OF MAIN STREET AND ROSS AVENUE.

BENCHMARK#5 ELEV 716.84

NORTHEAST NUT ON HYDRANT NORTHWEST QUADRANT OF MAIN STREET AND HARTSOUGH.







CITY OF PLYMOUTH
201 S MAIN ST
WAYNE COUNTY, MICHIGAN 4
2024 INFRASTRUCTURE IMPROVEMENT P
S MAIN STREET
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S IMPROVEMENT PROGRAM

48170 PROGRAM

25251 Northline Rd. Taylor, MI 48180 734.947.9700 www.wadetrim.com

ISSUED FOR: DATE: BY: BID 3-25-24 SWK

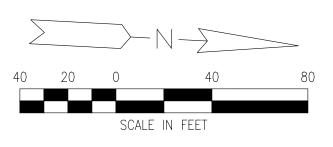
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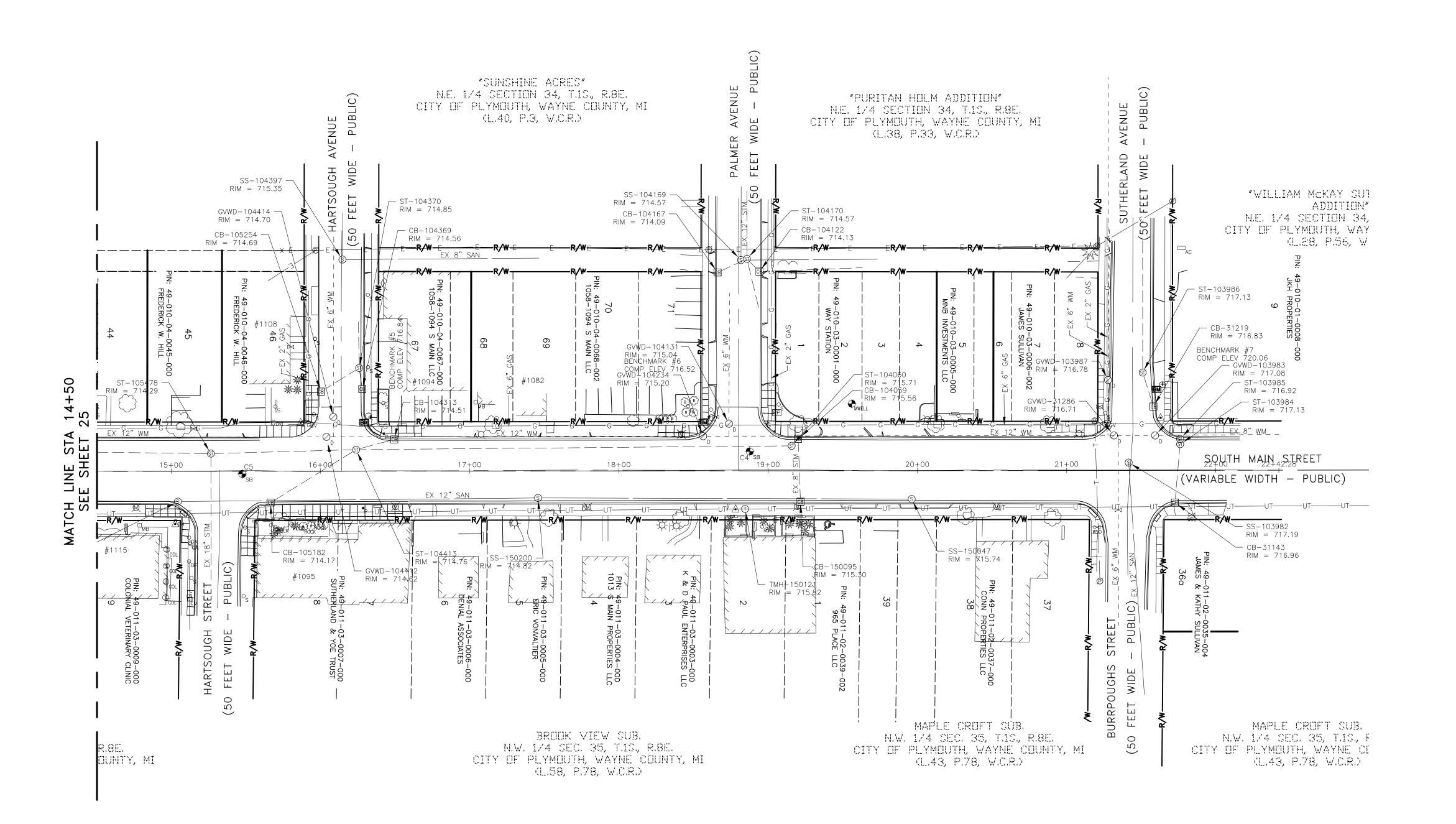
BENCHMARK#6 ELEV 716.52

SOUTHEAST NUT ON HYDRANT SOUTHWEST QUADRANT OF PALMER AVENUE AND MAIN STREET.

BENCHMARK#7 ELEV 720.06

ARROW ON HYDRANT NORTHWEST QUADRANT OF MAIN STREET AND SUTHERLAND AVENUE.







CITY OF PLYMOUTH
201 S MAIN ST
WAYNE COUNTY, MICHIGAN 4
2024 INFRASTRUCTURE IMPROVEMENT P
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S IMPROVEMENT PROGRAM

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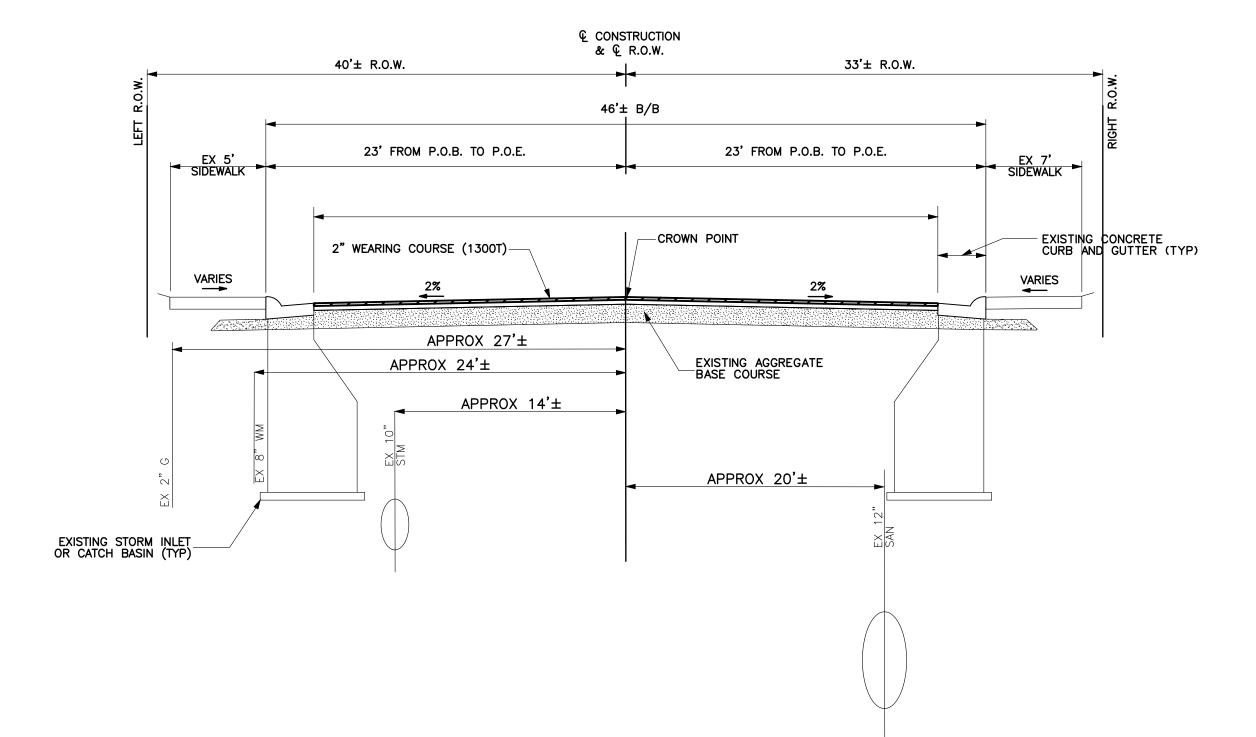
48170 PROGRAM

ISSUED FOR: DATE: BY: BID 3-25-24 SWK

DOB NO. PLY2129-01T

EXISTING TYPICAL CROSS SECTION S MAIN STREET

P.O.B. STA 0+79.78 TO P.O.E. STA 16+33.55 NOT TO SCALE



PROPOSED TYPICAL CROSS SECTION

S MAIN STREET

P.O.B. STA 0+79.78 TO P.O.E. STA 16+33.55 NOT TO SCALE

ALL MILLINGS SHALL BE DELIVERED BY CONTRACTOR TO RIVERSIDE CEMETARY 680 PLYMOUTH ROAD, PLYMOUTH MI THIS WILL BE PAID FOR IN THE COST OF MILLING PAVEMENT

* PAVEMENT CORES INDICATE EXISTING AVERAGE BITUMINOUS PAVEMENT THICKNESS OF 4" AND EXISTING CONCRETE BASE OF 5.69" ONE CORE INDICATED 1.75" OF CONCRETE OVER 8.75 OF SLAG. PLEASE SEE PAVEMENT CORES FOR MORE DETAIL.

BORING	ROAD	ASPHALT	CONCRETE	BASE	BASE MATERIAL
C4	MAIN	5.5"	7.75"	NOT ENCOUNTERED	NOT ENCOUNTERED
C5	MAIN	5.25"	9''	NOT ENCOUNTERED	NOT ENCOUNTERED
C6	MAIN	4.5"	9''	NOT ENCOUNTERED	NOT ENCOUNTERED
C7	MAIN	7"	8"	NOT ENCOUNTERED	NOT ENCOUNTERED

INFORMATION IN THE ABOVE CHART IS TAKEN FROM THE SME GEOTECHNICAL REPORT. FOR FURTHER DETAILES PEASE SEE REPORT FOUND IN THE PROPOSAL

HMA APPLICATION ESTIMATE								
IDENTIFICATION NO.	RATE PER SYD	PERFORMANCE GRADE	REMARKS					
1300T	220*	64-22	WEARING					
* BOND COAT 0-0.10 GAL/SYD FOR INFORMATION ONLY								

48170 PROGRA

CITY OF P 201 S N COUNTY,

ISSUED FOR: DATE: BY: BID 3-25-24 SWK

PLY2129-01T



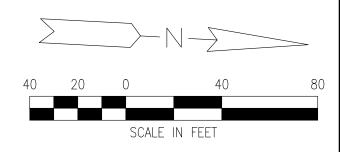
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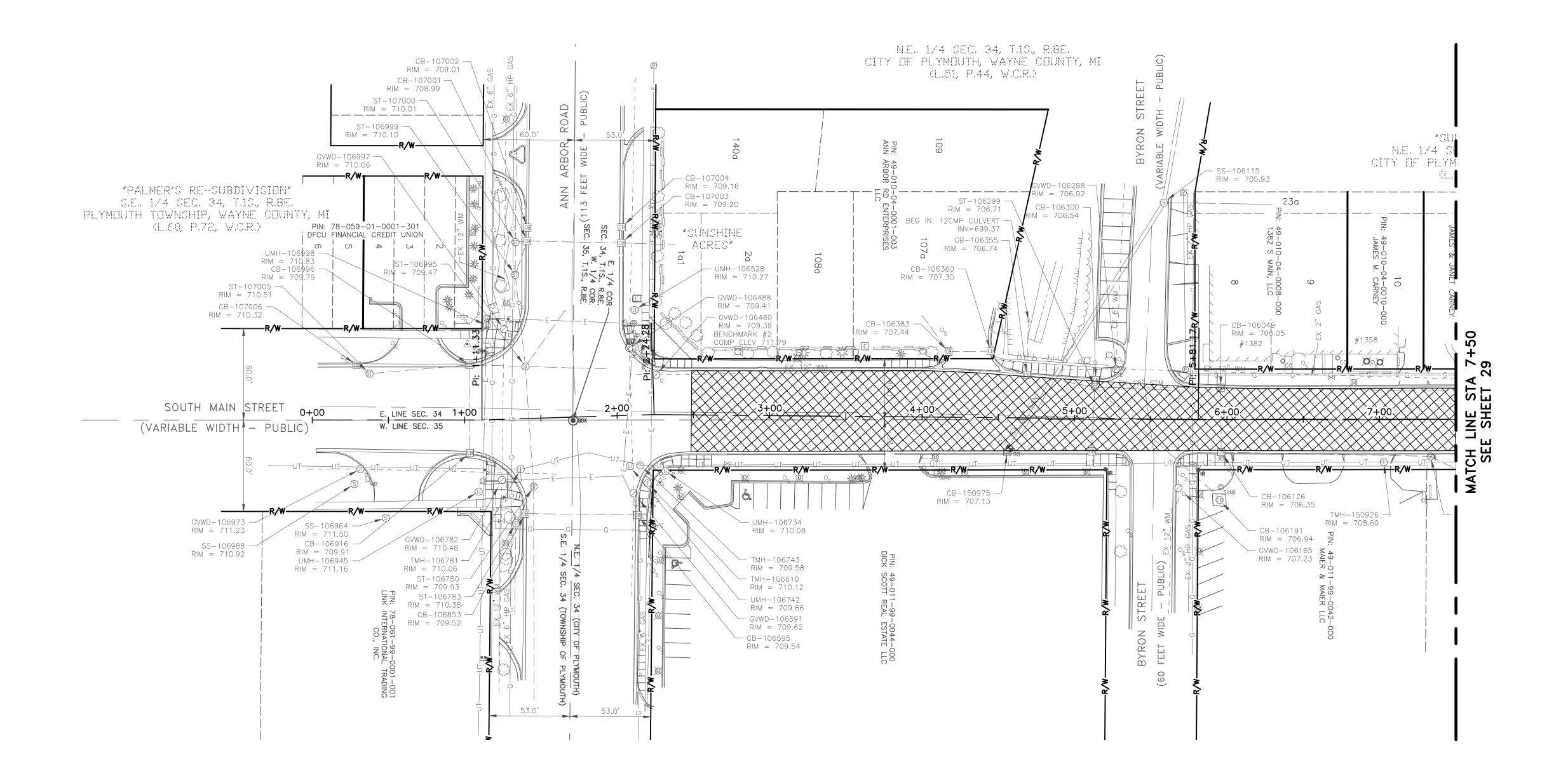
Call before you dig.

BENCHMARK#2 ELEV 711.79 ARROW ON HYDRANT NORTHWEST QUADRANT OF ANN ARBOR ROAD AND MAIN STREET.

BENCHMARK#3 ELEV 713.53 NORTHEAST BOLT ON LIGHT POST BASE, SOUTHWEST QUADRANT OF MAIN STREET AND

SIMPSON AVENUE.





REMOVAL OF CONCRETE CURB AND GUTTER WILL BE MARKED BY ENGINEER/CITY PRIOR TO MILLING OF CONCRETE PAVEMENT.

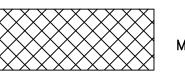
3000

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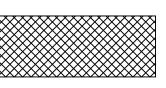
80 250

AN ESTIMATED QUANTITY OF CURB AND GUTTER REMOVAL HAS BEEN INCLUDED ON S MAIN REMOVAL SHEETS

LEGEND



MILL BITUMINOUS PAVEMENT



CONCRETE DRIVE AND SIDEWALK

PAVEMENT FOR BUTT JOINT REMOVE CURB AND GUTTER, REMOVE

SUMMARY OF QUANTITIES THIS SHEET COLD MILLING BITUMINOUS PAVEMENT 1.5-INCHES DEEP

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28

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48170 PROGRAI

PLYMOUTH

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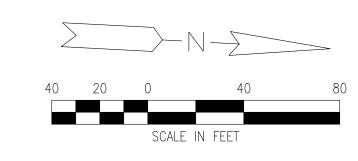
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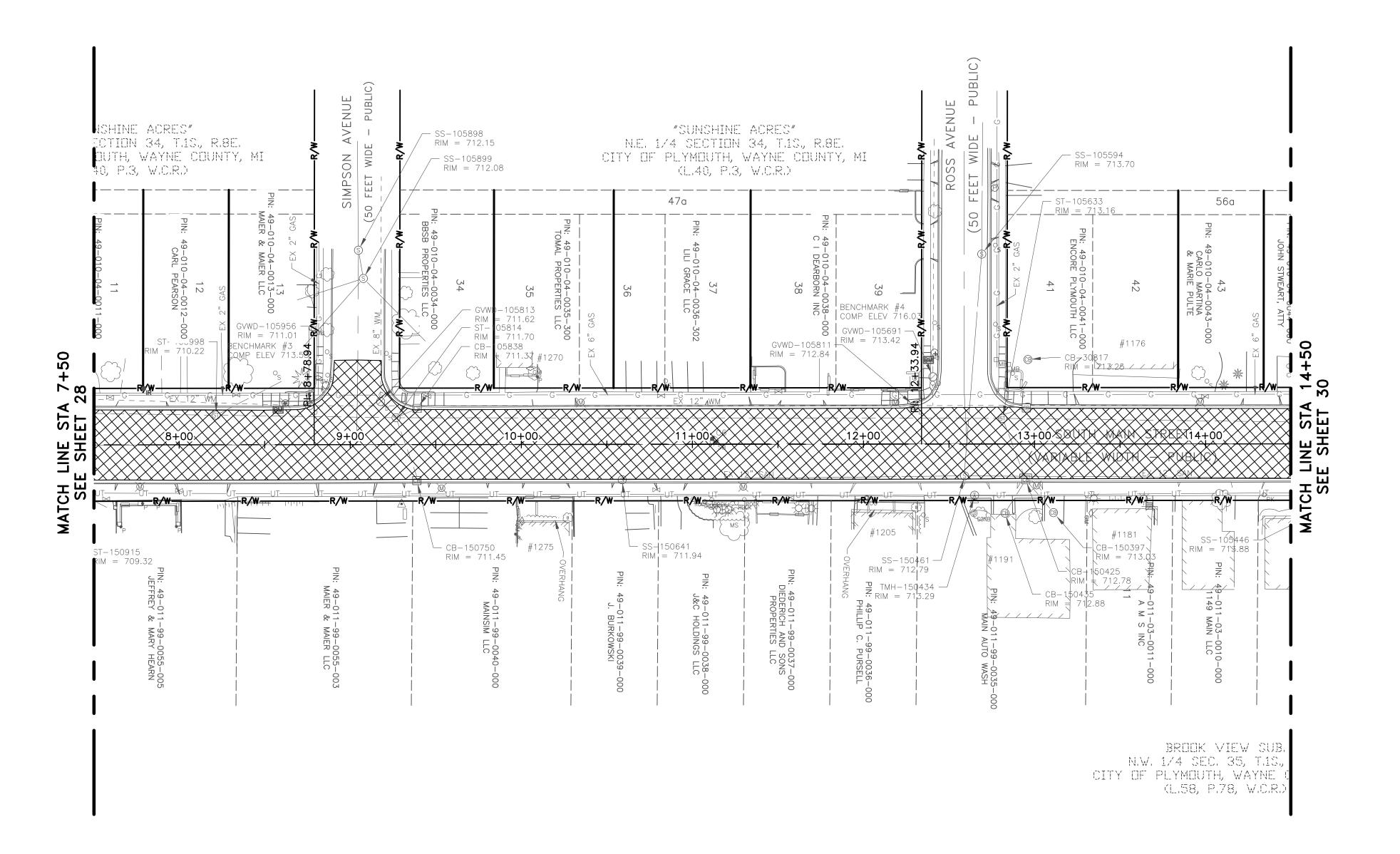
TAYNE

ISSUED FOR: DATE: BY: BID 3-25-24 SWK

BENCHMARK#4 ELEV 716.03 ARROW ON HYDRANT SOUTHWEST QUADRANT OF MAIN STREET AND ROSS AVENUE.

BENCHMARK#5 ELEV 716.84 NORTHEAST NUT ON HYDRANT NORTHWEST QUADRANT OF MAIN STREET AND HARTSOUGH.

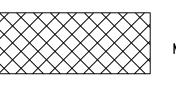




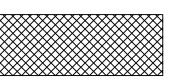
NOTE: REMOVAL OF CONCRETE CURB AND GUTTER WILL BE MARKED BY ENGINEER/CITY PRIOR TO MILLING OF CONCRETE PAVEMENT.

> AN ESTIMATED QUANTITY OF CURB AND GUTTER REMOVAL HAS BEEN INCLUDED ON S MAIN REMOVAL SHEETS

<u>LEGEND</u>



MILL BITUMINOUS PAVEMENT



CONCRETE DRIVE AND SIDEWALK

SUMMARY OF QUANTITIES THIS SHEET

3500 900 350 100 COLD MILLING BITUMINOUS PAVEMENT 1.5-INCHES DEEP SF CONCRETE DRIVES AND SIDEWALK, REMOVE LF CURB AND GUTTER, REMOVE

SY PAVEMENT FOR BUTT JOINT REMOVE

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48170

CITY OF PLYMOUTH
201 S MAIN ST

E COUNTY, MICHIGAN A
RASTRUCTURE IMPROVEMENT I
S MAIN STREET

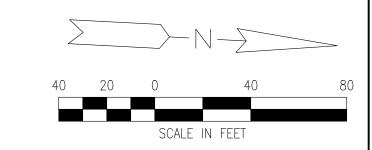
VAL PLAN STA 7+50 TO STA 1
ENT PROGRAM

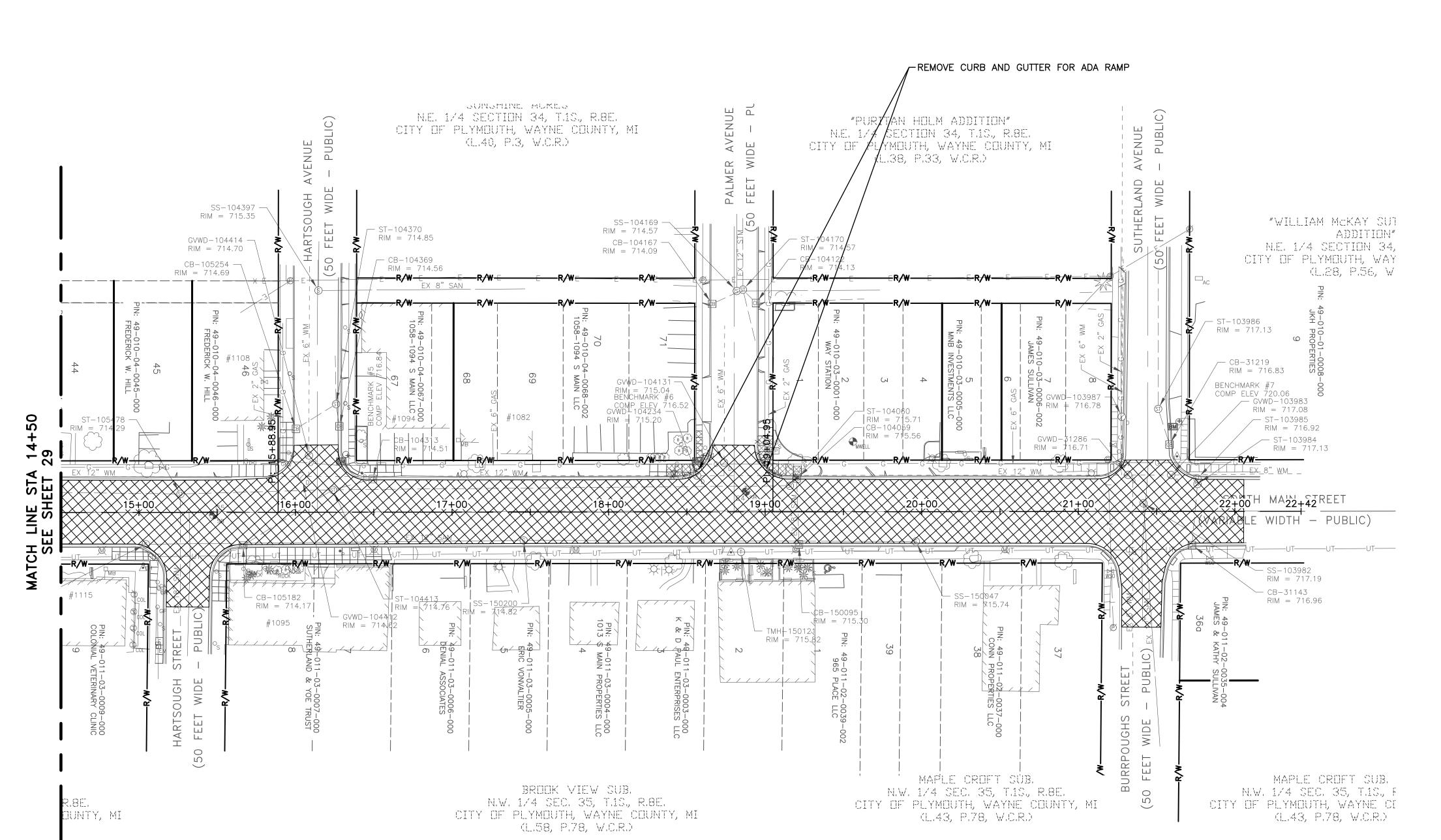
WAYNE O24 INFRA

ISSUED FOR: DATE: BY: BID 3-25-24 SWK

STREET AND SUTHERLAND AVENUE.

BENCHMARK#7 ELEV 720.06 ARROW ON HYDRANT NORTHWEST QUADRANT OF MAIN

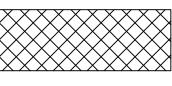




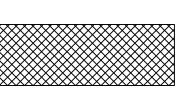
NOTE: REMOVAL OF CONCRETE CURB AND GUTTER WILL BE MARKED BY ENGINEER/CITY PRIOR TO MILLING OF CONCRETE PAVEMENT.

AN ESTIMATED QUANTITY OF CURB AND GUTTER REMOVAL HAS BEEN INCLUDED ON S MAIN REMOVAL SHEETS

LEGEND



MILL BITUMINOUS PAVEMENT



CONCRETE DRIVE AND SIDEWALK

Know what's below. Call before you dig.

SUMMARY OF QUANTITIES THIS SHEET COLD MILLING BITUMINOUS PAVEMENT 1.5-INCHES DEEP CONCRETE DRIVES AND SIDEWALK, REMOVE CURB AND GUTTER, REMOVE

SF LF PAVEMENT FOR BUTT JOINT REMOVE SY

30

PLY2129-01T

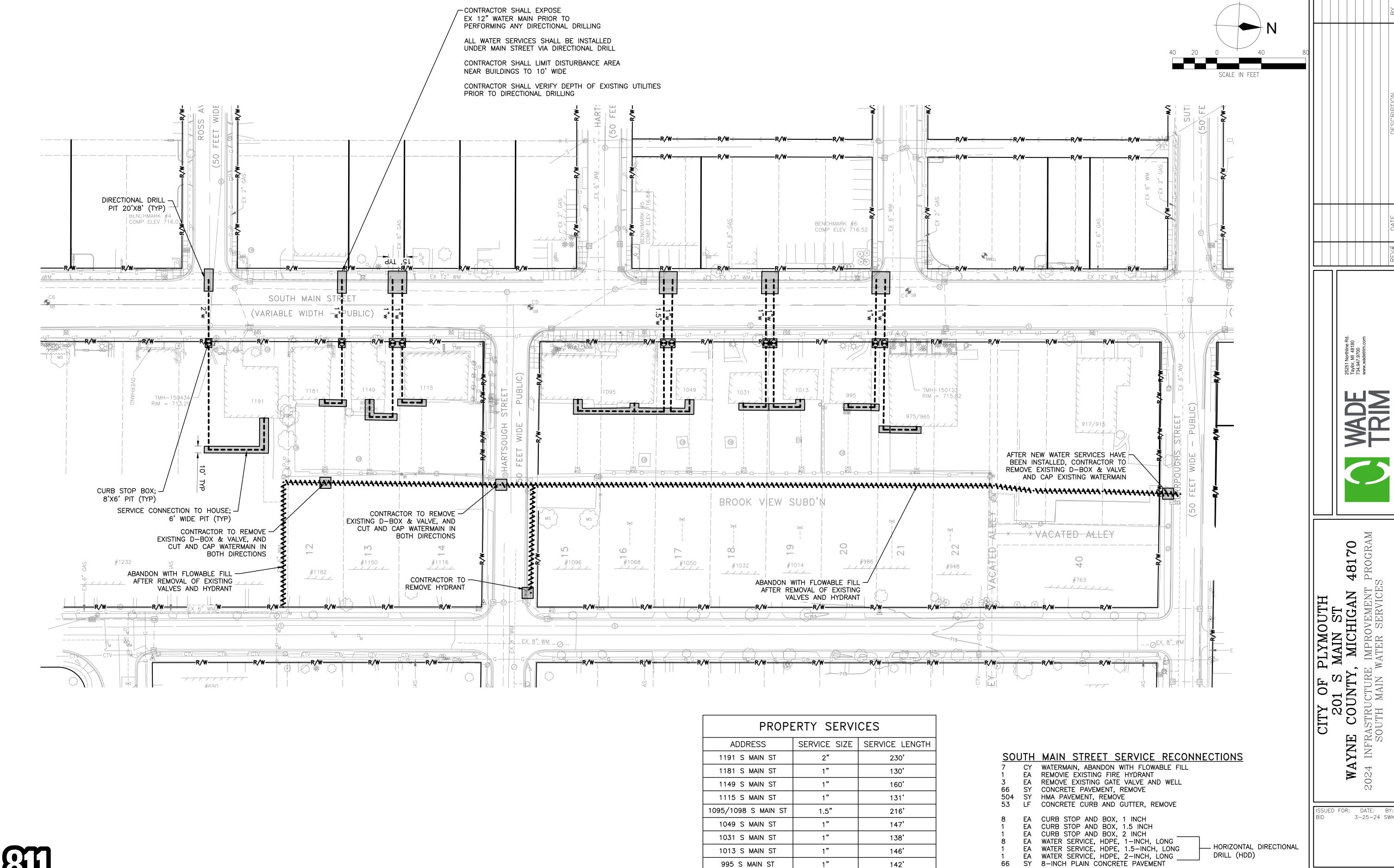
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48170PROGRAM

CITY OF PLYMOUTH
201 S MAIN ST
E COUNTY, MICHIGAN 'RASTRUCTURE IMPROVEMENT IS MAIN STREET
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ISSUED FOR: DATE: BY: BID 3-25-24 SWK



965 S MAIN ST

168'

Know what's below. Call before you dig.

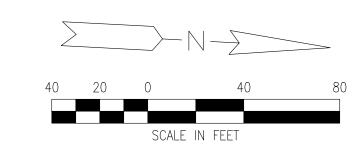
TON BITUMINOUS PAVEMENT, WEARING COURSE, 1300T LF CURB AND GUTTER, CONC

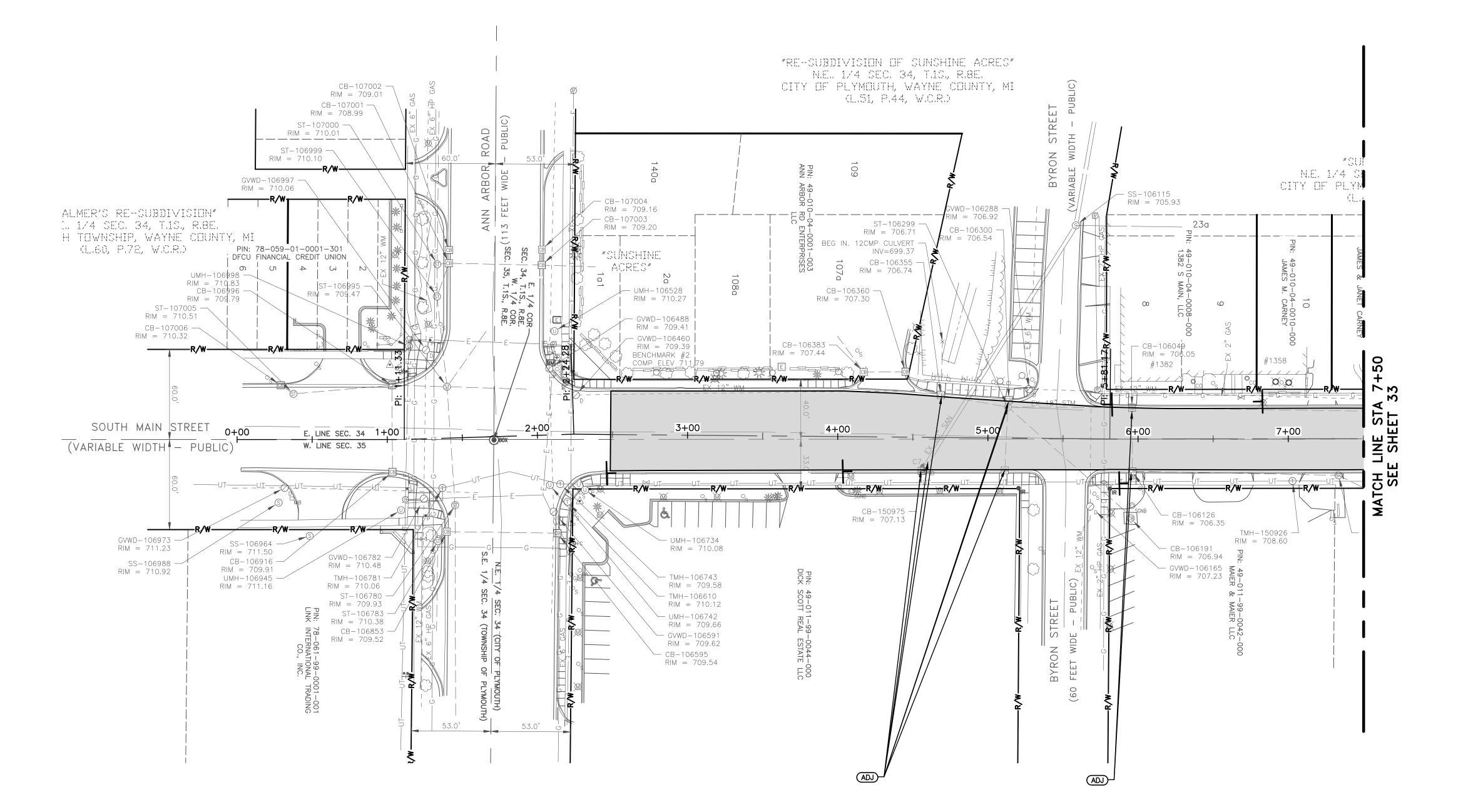
20 SY RESTORATION WITH 3-INCHES TOPSOIL & NURSERY SOD 10 CY FLOWABLE FILL

PLY2129-01T

BENCHMARK#2 ELEV 711.79 ARROW ON HYDRANT NORTHWEST QUADRANT OF ANN ARBOR ROAD AND MAIN STREET.

BENCHMARK#3 ELEV 713.53 NORTHEAST BOLT ON LIGHT POST BASE. SOUTHWEST QUADRANT OF MAIN STREET AND SIMPSON AVENUE.







SUMMARY OF QUANTITIES THIS SHEET

RECONSTRUCT STRUCTURE
BITUMINOUS PAVEMENT, WEARING COURSE, 1300T
CURB AND GUTTER, CONCRETE, DET F4 250 250 8 TON LF ADJUST STRUCTURE

REMOVE AND REPLACE FRAME AND COVER
INLET FILTER EA LB EA 2690

32

25251 Northline Rd. Taylor, MI 48180 734.947.9700 www.wadetrim.com

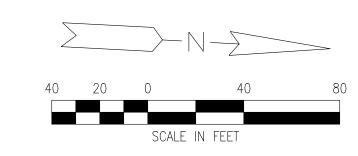
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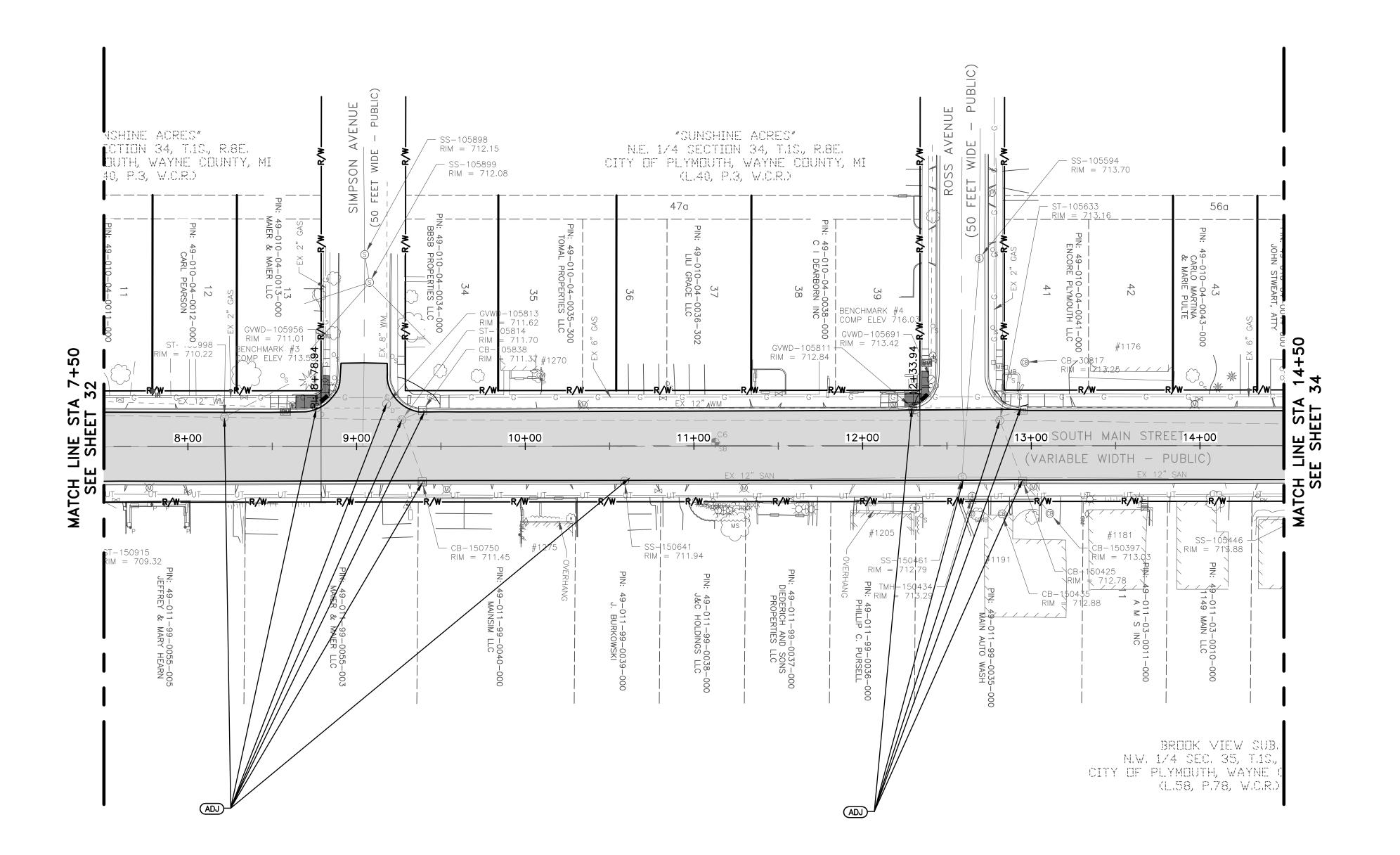
CITY OF PLYMOUTH
201 S MAIN ST
WAYNE COUNTY, MICHIGAN 4
2024 INFRASTRUCTURE IMPROVEMENT P
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E IMPROVEMENT PROGRAM

ISSUED FOR: DATE: BY: BID 3-25-24 SWK

BENCHMARK#4 ELEV 716.03 ARROW ON HYDRANT SOUTHWEST QUADRANT OF MAIN STREET AND ROSS AVENUE.

BENCHMARK#5 ELEV 716.84 NORTHEAST NUT ON HYDRANT NORTHWEST QUADRANT OF MAIN STREET AND HARTSOUGH.





SUMMARY OF QUANTITIES THIS SHEET

RECONSTRUCT STRUCTURE
BITUMINOUS PAVEMENT, WEARING COURSE, 1300T
CURB AND GUTTER, CONCRETE, DET F4
ADJUST STRUCTURE
REMOVE AND REPLACE FRAME AND COVER
INLET FILTER 24 310 350 12 EA LB EA 4460

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CITY OF PLYMOUTH
201 S MAIN ST

E COUNTY, MICHIGAN

RASTRUCTURE IMPROVEMENT F
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ACING PLAN STA 7+00 TO STA

ENT PROGRAM

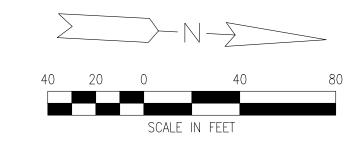
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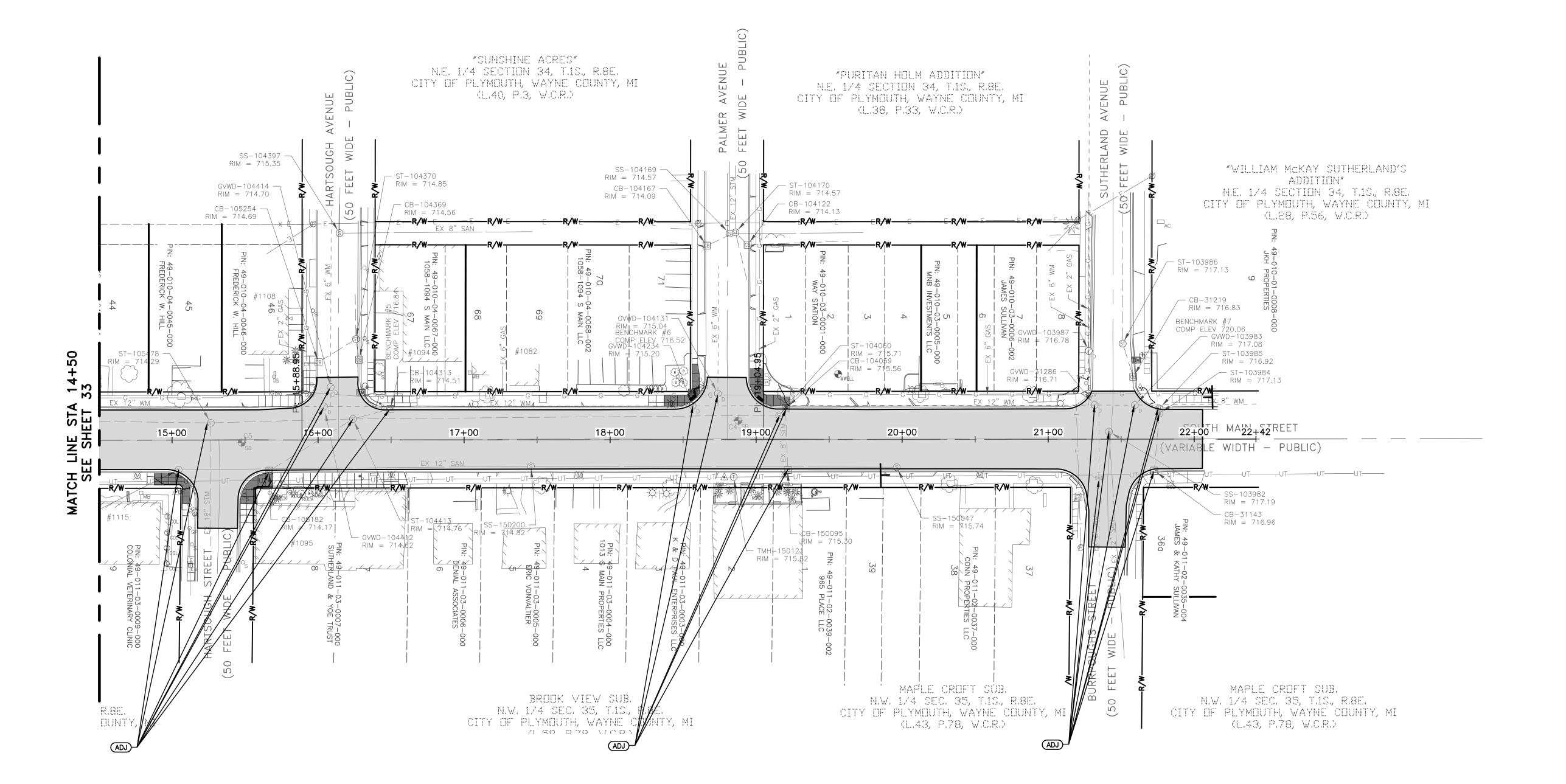
ISSUED FOR: DATE: BY:
BID 3-25-24 SWK

PLY2129-01T

BENCHMARK#6 ELEV 716.52 SOUTHEAST NUT ON HYDRANT SOUTHWEST QUADRANT OF PALMER AVENUE AND MAIN STREET.

ELEV 720.06 BENCHMARK#7 ARROW ON HYDRANT NORTHWEST QUADRANT OF MAIN STREET AND SUTHERLAND AVENUE.







SUMMARY OF QUANTITIES THIS SHEET

RECONSTRUCT STRUCTURE
BITUMINOUS PAVEMENT, WEARING COURSE, 1300T
CURB AND GUTTER, CONCRETE, DET F4
ADJUST STRUCTURE
REMOVE AND REPLACE FRAME AND COVER
INLET FILTER 38 350 500 19 7175

PLY2129-01T

ISSUED FOR: DATE: BY: BID 3-25-24 SWK

25251 Northline Rd. Taylor, MI 48180 734.947.9700 www.wadetrim.com

48170 PROGRAM

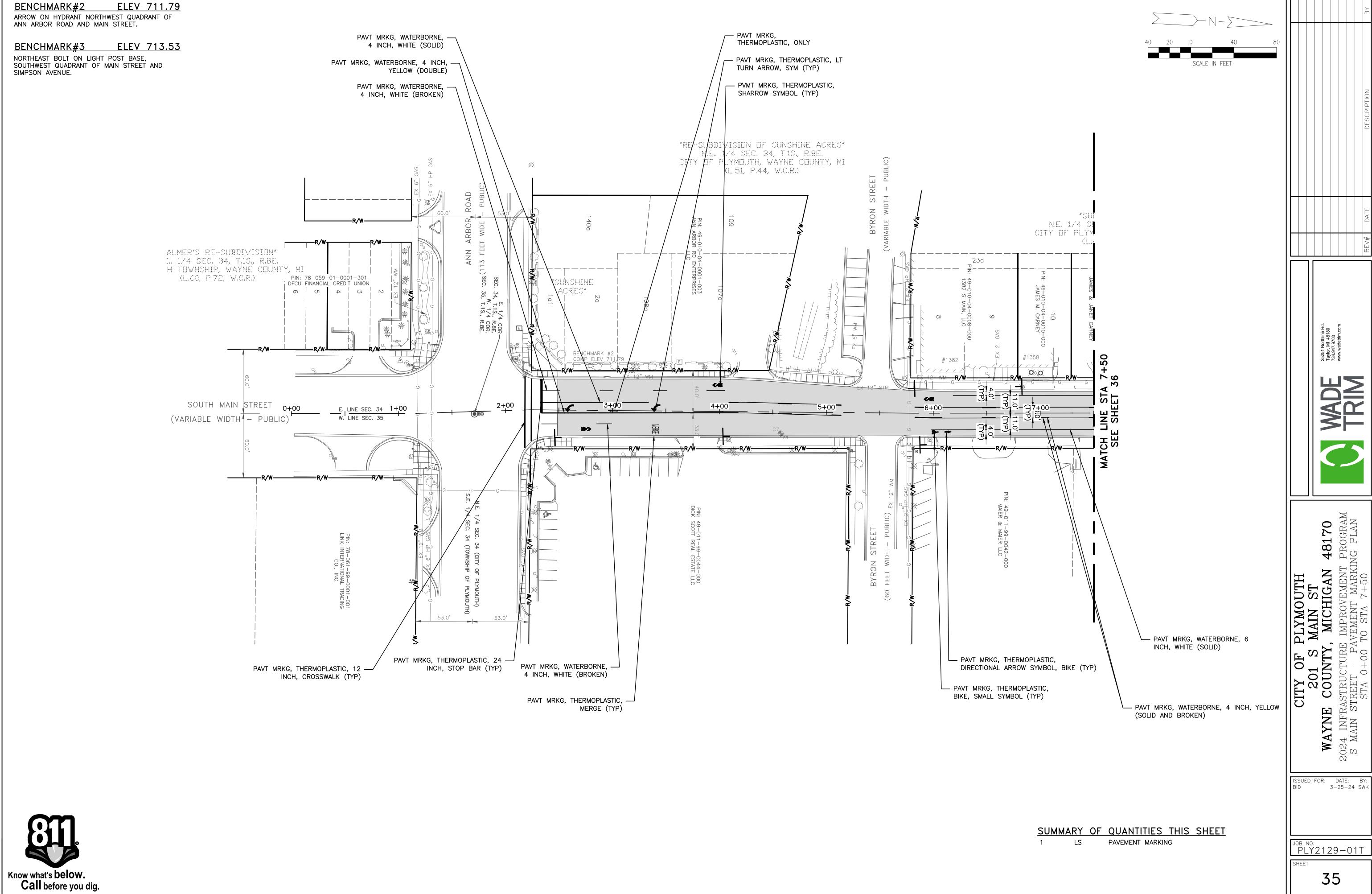
CITY OF PLYMOUTH
201 S MAIN ST

AYNE COUNTY, MICHIGAN 4

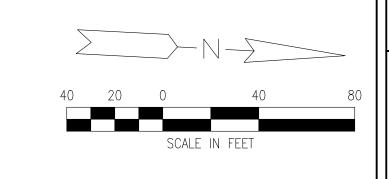
1 INFRASTRUCTURE IMPROVEMENT F
S MAIN STREET

URFACING PLAN STA 14+50 TO STA

WAYNE



BENCHMARK#4 ELEV 716.03 ARROW ON HYDRANT SOUTHWEST QUADRANT OF MAIN STREET AND ROSS AVENUE. ELEV 716.84 BENCHMARK#5 NORTHEAST NUT ON HYDRANT NORTHWEST QUADRANT OF MAIN STREET AND HARTSOUGH.



PAVT MRKG, THERMOPLASTIC, DIRECTIONAL -PAVT MRKG, WATERBORNE, 4 INCH, YELLOW ARROW SYMBOL, BIKE (TYP) (SOLID AND BROKEN) PAVT MRKG, THERMOPLASTIC, BIKE, — PAVT MRKG, WATERBORNE, 6 SMALL SYMBOL (TYP) INCH, WHITE (SOLID) NSHINE ACRES" "SUNSHINE N.E. 1/4 SECTION ICTION 34, T.1S., R.8E. , R.8E. DUTH, WAYNE COUNTY, MI CITY OF PLYMOUTH, $\forall A \nmid NE \mid COUNTY, MI$ 40, P.3, W.D.R.) (L.40, P.3,/W.D.R.) SIMP (50 FEE 47a 56a 0 BENCHMARK #4 COMP ELEV 716.0 +50 QMP ELEV 713.53 5 ST. 13+00 SOUTH - MAIN 9+00 TCH SEI -011-03-0011-A M S INC -011-03-0010-149 MAIN LLC BROOK VIEW SUB. N.W. 1/4 SEC. 35, T.1S, CITY OF PLYMOUTH, WAYNE ((L.58, P.78, W.C.R.)

> SUMMARY OF QUANTITIES THIS SHEET PAVEMENT MARKING LS

Know what's below.

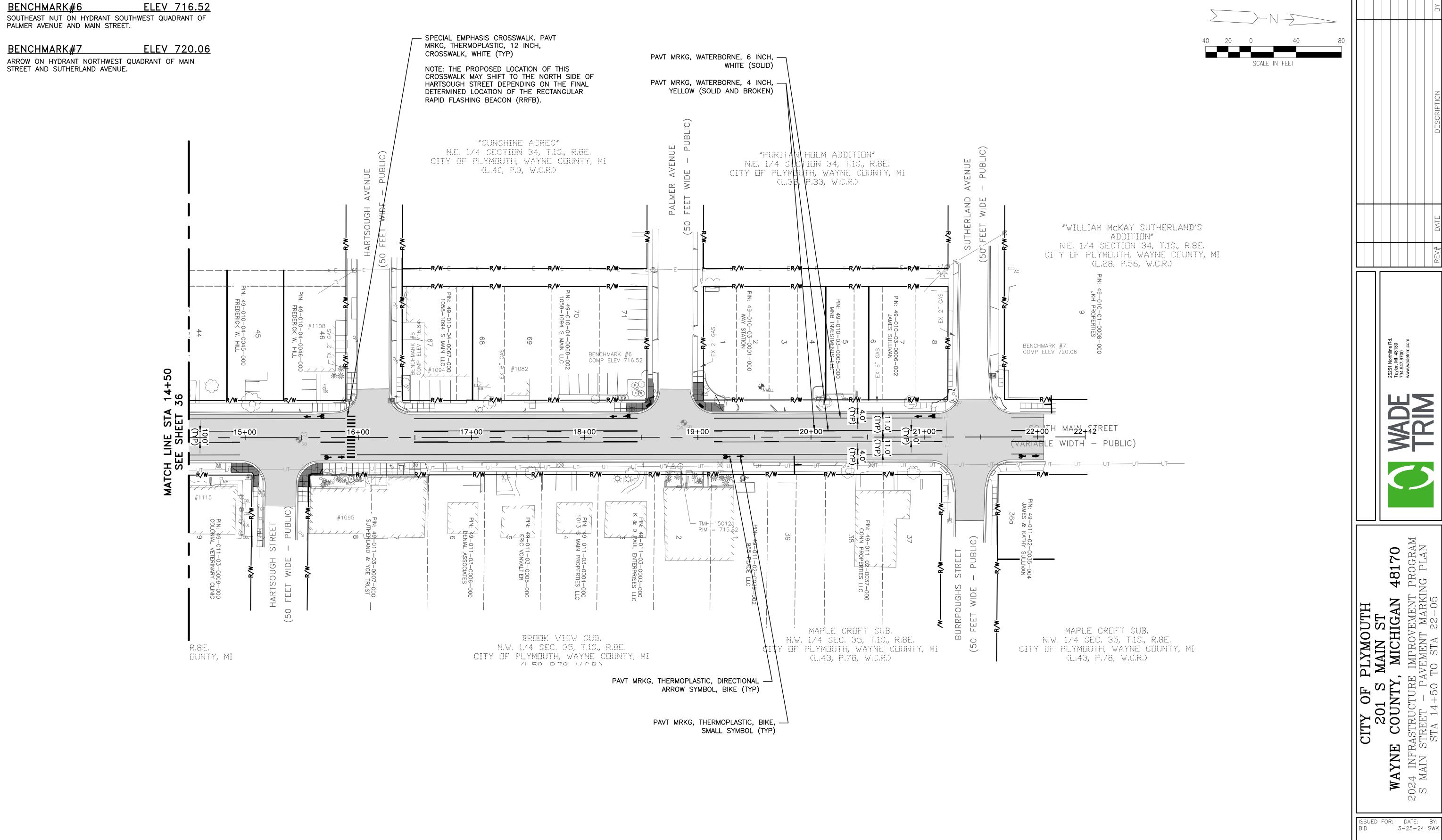
Call before you dig.

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CITY OF PLYMOUTH
201 S MAIN ST
WAYNE COUNTY, MICHIGAN 48170
SO24 INFRASTRUCTURE IMPROVEMENT PROGRAM
S MAIN STREET - PAVEMENT MARKING PLAN
STA 7+50 TO STA 14+50

25251 Northline Rd. Taylor, MI 48180 734.947.9700 www.wadetrim.com



Know what's below. Call before you dig. SUMMARY OF QUANTITIES THIS SHEET

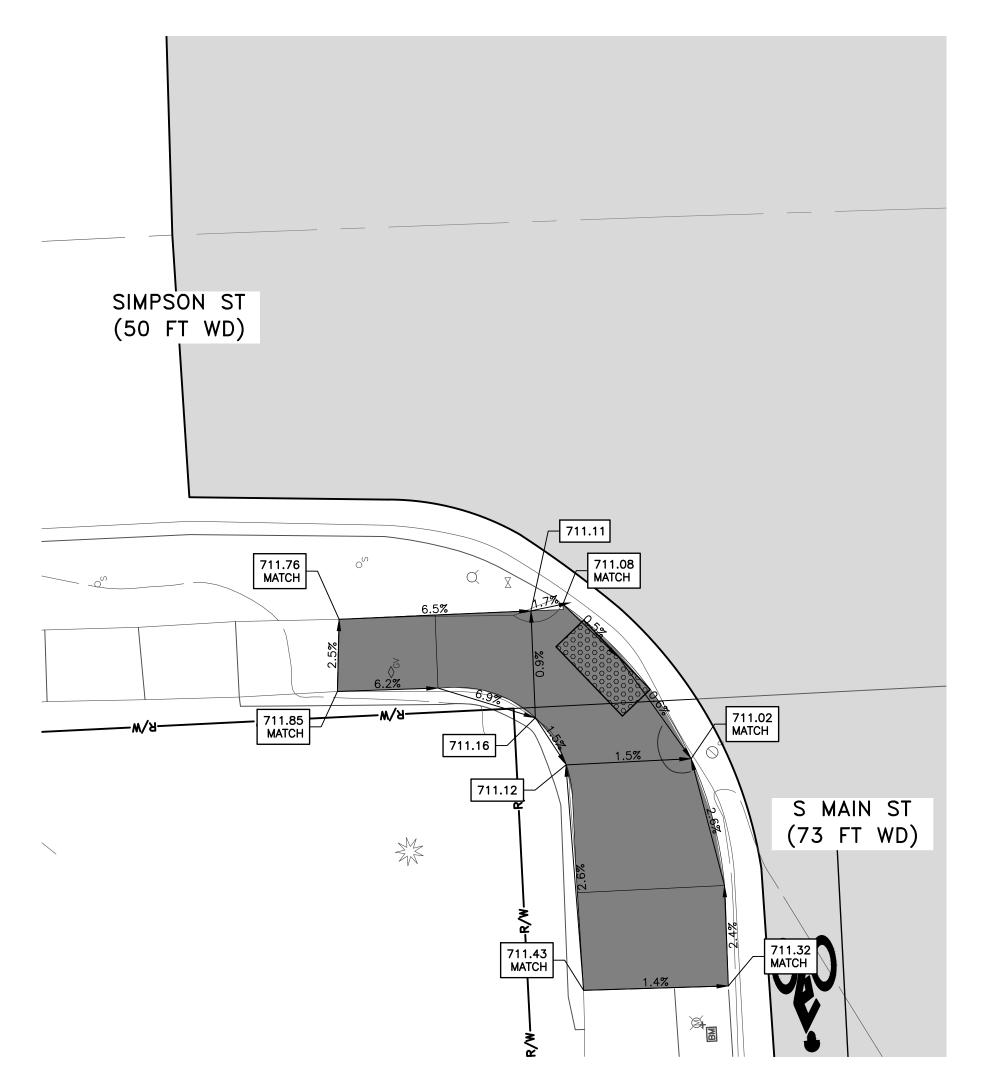
PAVEMENT MARKING

PLY2129-01T

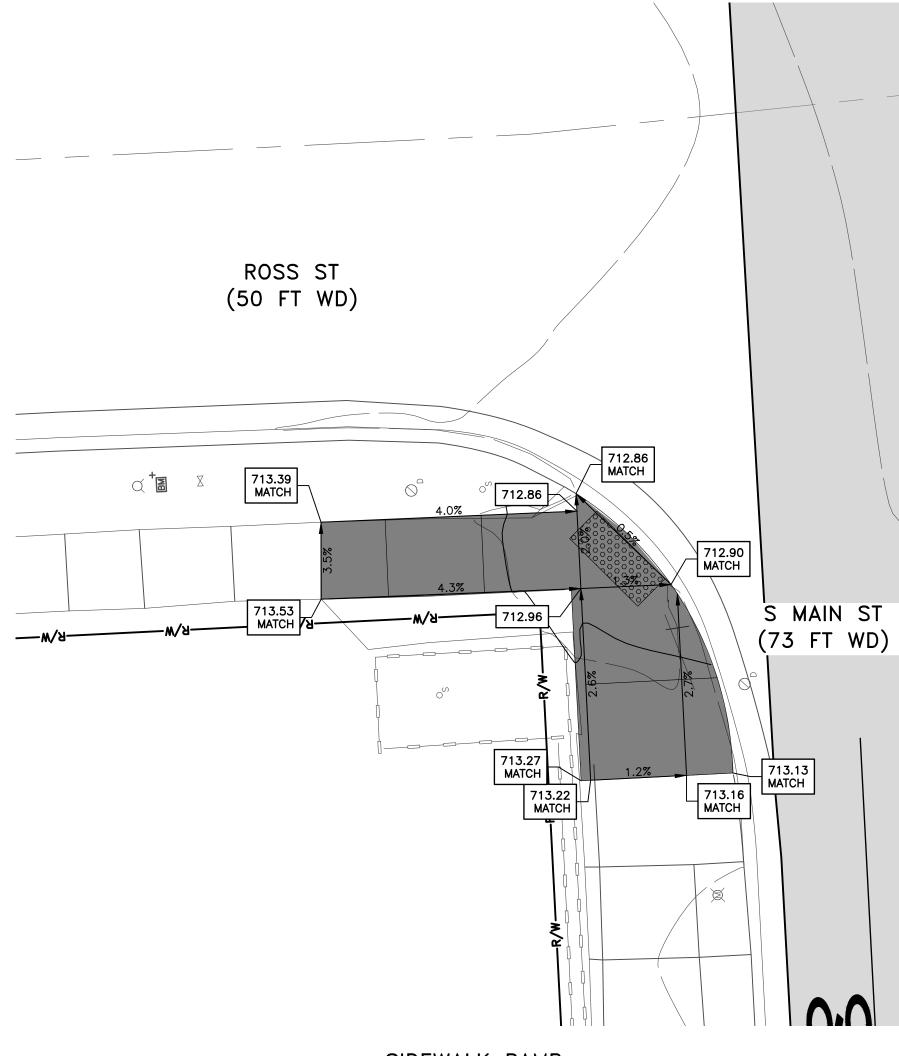
WAYNE

25251 Northline Rd. Taylor, MI 48180 734.947.9700 www.wadetrim.com

48170



SIDEWALK RAMP S MAIN STREET AND SIMPSON STREET (WEST SIDE)



SIDEWALK RAMP S MAIN STREET AND ROSS STREET (WEST SIDE)

NOTES:

- 1. SIDEWALK RAMPS SHALL BE INSTALLED PER ADA AND ACCESS PEDESTRAIN SIGNALS COMPLIANCE, WHICH INCLUDE, BUT IS NIOT LIMITED TO 10-FOOT CLEARANCE BETWEEN PUSHBUTTONS AND LANDINGS WITHIN 2-FOOT OF PUSHBUTTONS. REFER TO MDOT DESIGN GUIDE SIG-DESIGN-120-A.
- 2. IF THE CONSTRUCTED SIDEWALK IS FOUND TO EXCEED THE MAXIMUM TRANSVERSE SLOPE OF 2% OR LONGITUDINAL SLOPE AT RAMPS OF 8.3%, THE SIDEWALK SHALL BE REMOVED AND REPLACED AT THE EXPENSE OF THE CONTRACTOR.
- 3. THE CONTRACTOR SHALL PROTECT ALL BRICK PAVER AREAS ADJACENT TO SIDEWALKS AND SIDEWALK RAMPS.

SUMMARY OF QUANTITIES THIS SHEET

100 500

6-INCH CONCRETE SIDEWALK RAMP, ADA 4-INCH CONCRETE SIDEWALK

25251 Northline Rd. Taylor, MI 48180 734.947.9700 www.wadetrim.com

CITY OF PLYMOUTH
201 S MAIN ST
WAYNE COUNTY, MICHIGAN 4
2024 INFRASTRUCTURE IMPROVEMENT F
S MAIN STREET
S MAIN AT SIMPSON AN
E IMPROVEMENT PROGRAM

ISSUED FOR: DATE: BY: BID 3-25-24 SWK

PLY2129-01T

38

Know what's below.

Call before you dig.



1. SIDEWALK RAMPS SHALL BE INSTALLED PER ADA AND ACCESS PEDESTRAIN SIGNALS COMPLIANCE, WHICH INCLUDE, BUT IS NIOT LIMITED TO 10-FOOT CLEARANCE BETWEEN PUSHBUTTONS AND LANDINGS WITHIN 2-FOOT OF PUSHBUTTONS. REFER TO MDOT DESIGN GUIDE SIG-DESIGN-120-A.

40 20 0 40

SCALE IN FEET

- IF THE CONSTRUCTED SIDEWALK IS FOUND TO EXCEED THE MAXIMUM TRANSVERSE SLOPE OF 2% OR LONGITUDINAL SLOPE AT RAMPS OF 8.3%, THE SIDEWALK SHALL BE REMOVED AND REPLACED AT THE EXPENSE OF THE CONTRACTOR.
- 3. THE CONTRACTOR SHALL PROTECT ALL BRICK PAVER AREAS ADJACENT TO SIDEWALKS AND SIDEWALK RAMPS.

SUMMARY OF QUANTITIES THIS SHEET

150 SF 6-INCH CONCRETE SIDEWALK RAMP, ADA 600 SF 4-INCH CONCRETE SIDEWALK

SIDEWALK RAMP

S MAIN STREET AND PALMER STREET (WEST SIDE)

Know what's below. Call before you dig.

25251 Northline Rd.
Taylor, MI 48180
734.947,9700
www.wadetrim.com

CHIGAN 48170 COVEMENT PROGRAM EET

TY, MICHIGATORY IN STREET

S MAIN STREET

S MAIN AND

INFRASTRUCTURI S MAI ADA RAMPS — S

ISSUED FOR: DATE: BY: BID 3-25-24 SWK

JOB NO. PLY2129-01T

SHEET

ELEV 736.75

SET MAG. NAIL NORTH SIDE OF UTILITY POLE/LIGHT POLE SOUTHEAST SIDE OF E. SPRING ST. AND N. MILL ST.

BENCHMARK#12

ELEV 737.60

"ASSESOR'S PLYMOUTH PLAT NO.4"

CITY OF PLYMOUTH, WAYNE COUNTY, MI

PIN: 49-005-03-0043-000

KEVIN FELTS

CB - 39226 RIM = 735.52

- /35.5. RIM = 735.06

CB-40494

ST-40529 -

#620 RIM = 734.34 43 ST - 40529

¹11a ¹

RIM = 734.59

PIN: 49-005-04-0011-002 MILY HOLDING LLC

L_____

#584

5 IN. MAPLE -

CB-39225 — RIM = 734.79

_____CB__40143 -

PIN: 49-005-03-0068-000 GVW-40141 - RICHARD MATSU RIM = 735.50

SPRING STREET

(50 FT WD - PUBLIC)

RIM = 735.05

RIM = 735.21

PIN: 49-005-03-0073-000

SHIRLEY SMITH

GVW-40021 -

2 IN. MAPLE -

3 IN. MAPLE -

BENCHMARK #11

RIM = 735.20

RIM = 735.00

COMP ELEV 736.75

SS-40103 —

RIM = 734.96

GVW-40142 -

(L.63, P.90, W.D.R.)

PIN: 49-005-03-0041-000

NORTH MILL STREET LLC

/─ CB-40493

RIM = 734.24

EX 6" WM -_ __

CB-40386

27

RIM = 734.34

| PIN: 49-005-04-0027-000

ST. MICHAELS CHURCH

"ASSESOR'S PLYMOUTH SUB. NO.2"

CITY OF PLYMOUTH, WAYNE COUNTY, MI

(L.63, P.77, W.C.R.)

10 IN. MAPLE —

GVW-40765 -

ST-40767 ·

ST-40766 -

RIM = 736.06

RIM = 736.16

RIM = 735.94

CB-40772 -

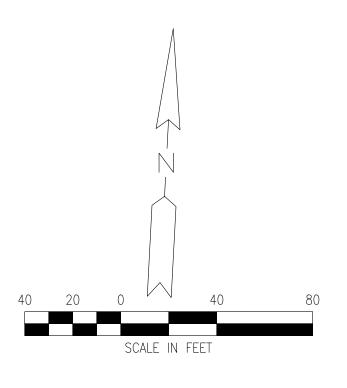
ST-40939 —

RIM = 735.61

RIM = 736.12

14 INO WAK MAPLE

ARROW ON HYDRANT, SOUTHWEST CORNER OF W. SPRING ST. AND STARKWEATHER AVE.



STRUCTURE INVENTORY

CB-39225 RIM = 734.7912" CONC NORTH INVERT = 728.04 12" CONC SOUTH INVERT = 728.04 4" PLASTIC EAST INVERT = 729.09

CB-39226 RIM = 735.06 (NO VISIBLE PIPE)

"ASSESER'S PLYMOUTH PLAT NO.15"

CITY OF PLYMOUTH, WAYNE COUNTY, MI

(L.66, P.81, W.C.R.)

PIN: 49-004-01-0483-000

DENNIS HEINRICH

483

RIM = 735.74 6 IN. PEAR

SPRING STREET

(49.5 FT WD - PUBLIC)

PIN: 49-004-01-0488-000

NEW TOWNE ASSOCIATES

/__ ST-40850

RIM = 735.24SS-40938

RIM = 735.93

MASSESOR'S PLYMOUTH PLAT NO.15/

CITY OF PLYMOUTH, WAYNE COUNTY, MI

(L.66, P.81, W.C.R.)

BENCHMARK #12 COMP ELEV 736.75 488

→ TMH-40790

CB S WSQ 111 S

RIM = 736.09

RIM = 735.54

RIM = 735.71

∕— 6 IN. PEAR

__ ST−40848

∠ CB−40844

GVWD-40021 RIM = 735.218" STEEL NORTH/SOUTH T/P = 730.21

GVWD-40051 RIM = 735.058" STEEL EAST/WEST T/P = 730.05

SS-40103 RIM = 735.20 (NOT MEASURED) GVWD-40141

GVWD-40142

RIM = 735.508" STEEL NORTH/SOUTH T/P = 729.50

RIM = 735.348" STEEL EAST/WEST T/P = 729.34CB-40143

RIM = 734.9612" RCP SOUTH INVERT = 730.96 SS-40251 RIM = 735.00

10" CLAY WEST/NORTHWEST INVERT = 723.45 10" CLAY EAST INVERT = 723.43 CB-40379

6" CLAY NORTH INVERT = 730.19 6" PVC EAST INVERT = 730.94

RIM = 734.59

CB-40380 RIM = 734.34

CB-40493 RIM = 734.2412" RCP SOUTHWEST INVERT = 731.24

CB-40494 RIM = 734.34 8" CLAY SOUTH INVERT = 729.99 12" RCP NORTHEAST INVERT = 731.09

ST-40529RIM = 735.52 18" RCP WEST INVERT = 727.4218" RCP EAST INVERT = 727.32 8" CLAY NORTH INVERT = 729.22 6" CLAY SOUTH INVERT = 729.12 GVWD-40765 RIM = 736.068" STEEL EAST/WEST T/P = 732.06ST-40766

RIM = 735.74ST-40850

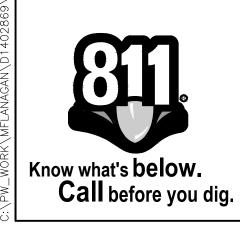
RIM = 735.75(NOT MEASURED)

RIM = 735.2418" RCP NORTHEAST INVERT = 728.54 24" RCP SOUTHWEST INVERT = 728.24

RIM = 735.938" CLAY EAST INVERT = 722.33 8" CLAY WEST INVERT = 722.38 8" CLAY NORTH INVERT = 723.93 ST-40939

RIM = 736.1218" RCP SOUTH INVERT = 727.1218" RCP NORTHEAST INVERT = 728.22 12" RCP WEST INVERT = 731.92

RIM = 735.9518" RCP SOUTHEAST INVERT = 727.35 18" RCP NORTHWEST INVERT = 727.35ST-40767 RIM = 736.1718" RCP SOUTH INVERT = 727.17 18" RCP NORTHWEST INVERT = 727.17 CB-40772 RIM = 735.61 12" RCP EAST INVERT = 732.51CB-40844 RIM = 735.5412" RCP EAST INVERT = 732.04 ST-40848 RIM = 735.7118" RCP EAST INVERT = 728.81 18" RCP SOUTHWEST INVERT = 728.71 12" RCP WEST INVERT = 730.81 ST-40849 18" RCP WEST INVERT = 728.84



CITY OF PLYMOUTH
201 S MAIN ST

E COUNTY, MICHIGAN

TRASTRUCTURE IMPROVEMENT I
SPRING STREET
EXISTING CONDITIONS

ENT PROGRAM

48170PROGRAI

ISSUED FOR: DATE: BY: BID 3-25-24 SWK

PLY2129-01T

* PAVEMENT CORES INDICATE EXISTING AVERAGE BITUMINOUS PAVEMENT THICKNESS OF 4.125" AND EXISTING BASE OF 8.625" ONE CORE INDICATED 8" OF SAND AND THE OTHER CORE INDICATED 8.75" OF CRUSHED CONCRETE. PLEASE SEE PAVEMENT CORES FOR MORE DETAIL.

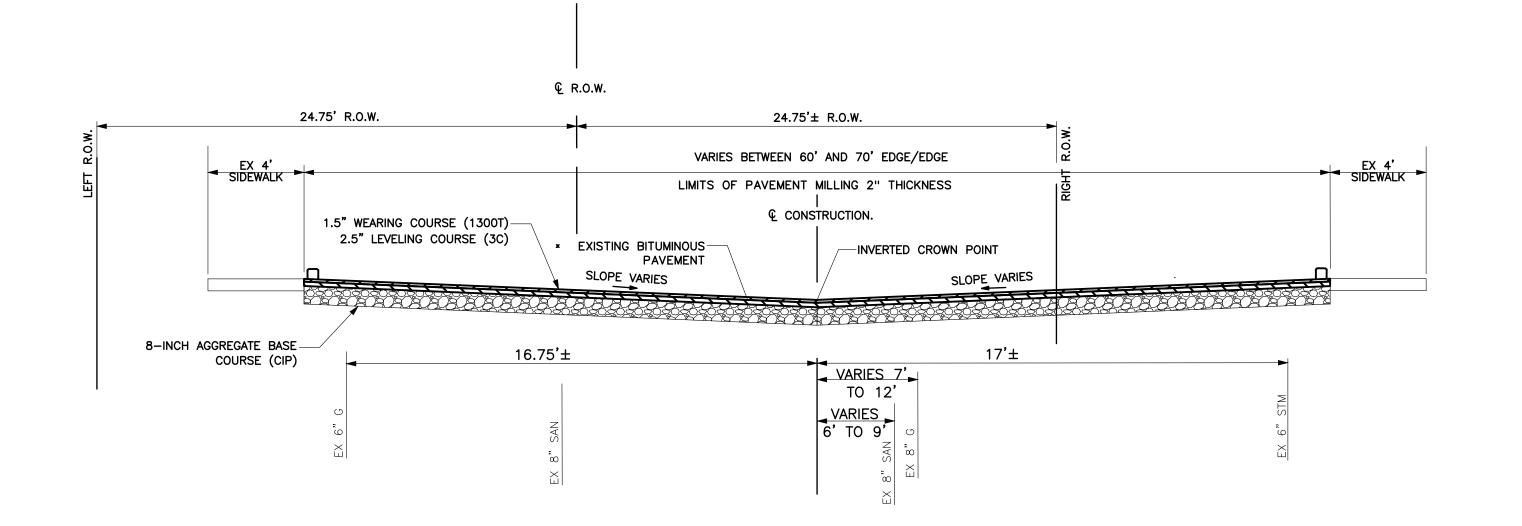
BORING	ROAD	ASPHALT	CONCRETE	BASE	BASE MATERIAL
В3	SPRING	5"	NOT ENCOUNTERED	NOT ENCOUNTERED	NOT ENCOUNTERED
B4	SPRING	3.25"	NOT ENCOUNTERED	8.75"	CRUSHED CONCRETE

INFORMATION IN THE ABOVE CHART IS TAKEN FROM THE SME GEOTECHNICAL REPORT. FOR FURTHER DETAILES PEASE SEE REPORT FOUND IN THE PROPOSAL

EXISTING TYPICAL CROSS SECTION

SPRING STREET

P.O.B. STA 0+94.80 TO P.O.E. STA 3+72.52 NOT TO SCALE



HMA APPLICATION ESTIMATE

TIMA AFFLICATION ESTIMATE						
IDENTIFICATION NO.	RATE PER SYD	PERFORMANCE GRADE	REMARKS			
1300T	165#	64-22	WEARING			
3C	275*	64-22	LEVELING			
* BOND COAT 0-0.10 G	AL/SYD FO	OR INFORMATION	ONLY			

PROPOSED TYPICAL CROSS SECTION
SPRING STREET

P.O.B. STA 0+94.80 TO P.O.E. STA 3+72.52 NOT TO SCALE

Know what's below.
Call before you dig.

PLY2129-01T

41

T PROGRAM

K. MICHIGAN 4817

E. IMPROVEMENT PROGNG STREET

VE COUNTY, MIC
FRASTRUCTURE IMPRA
SPRING STRE
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WAYNE COU

2024 INFRASTRUG

S

ISSUED FOR: DATE: BY: BID 3-25-24 SWK

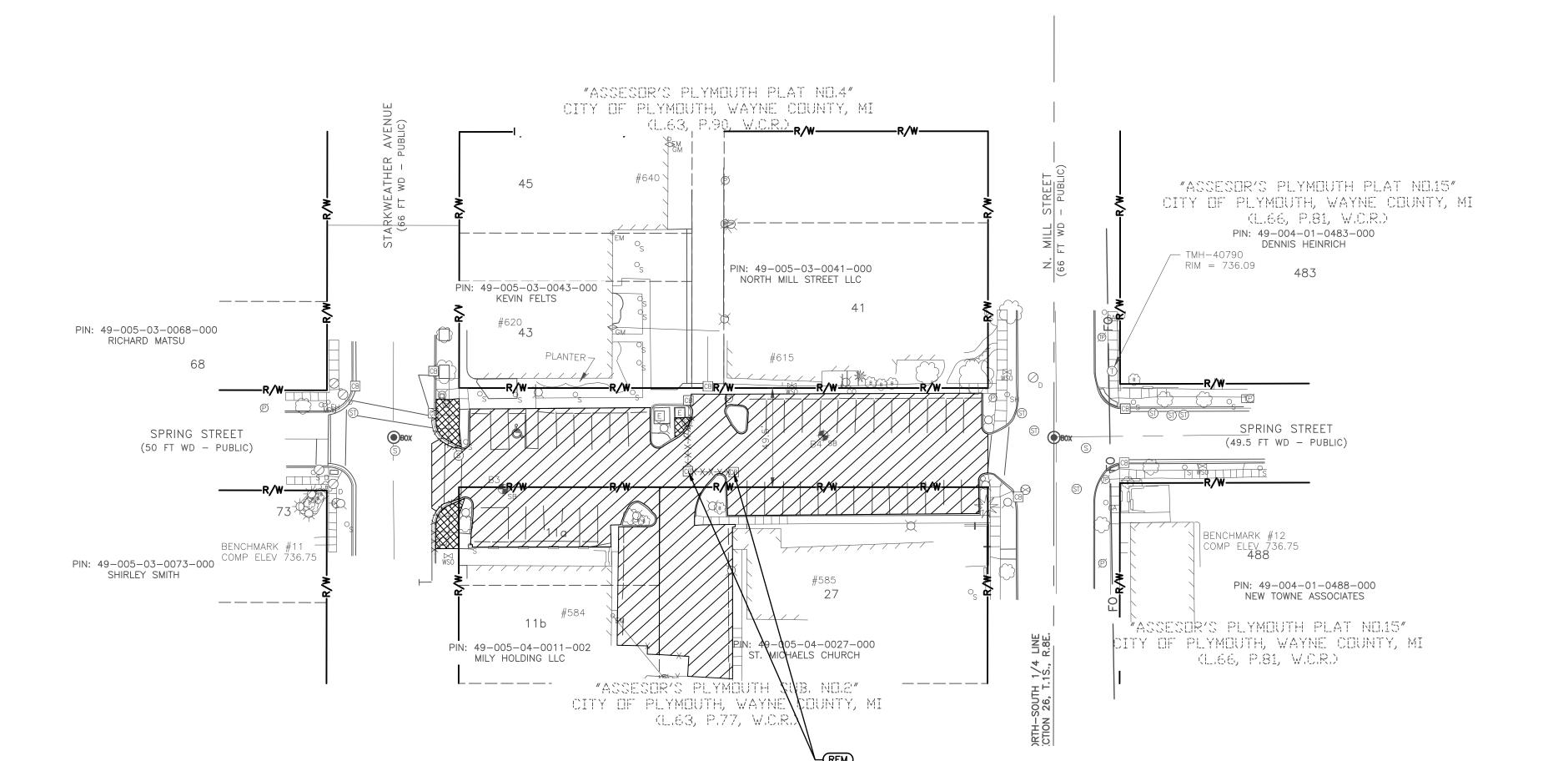
ELEV 736.75

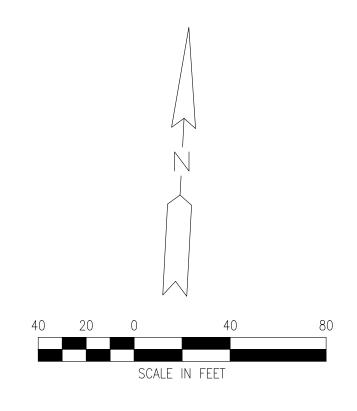
SET MAG. NAIL NORTH SIDE OF UTILITY POLE/LIGHT POLE SOUTHEAST SIDE OF E. SPRING ST. AND N. MILL ST.

BENCHMARK#12

ELEV 737.60

ARROW ON HYDRANT, SOUTHWEST CORNER OF W. SPRING ST. AND STARKWEATHER AVE.





<u>LEGEND</u>

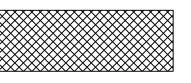
PAVEMENT EXCAVATION

REMOVE CURB

SUMMARY OF QUANTITIES THIS SHEET

600 700 50 120 LF

PAVEMENT EXCAVATION CONCRETE DRIVES AND SIDEWALK, REMOVE STORM SEWER REMOVE CURB AND GUTTER, REMOVE REMOVE STRUCTURE



CONCRETE DRIVE AND SIDEWALK, REMOVE

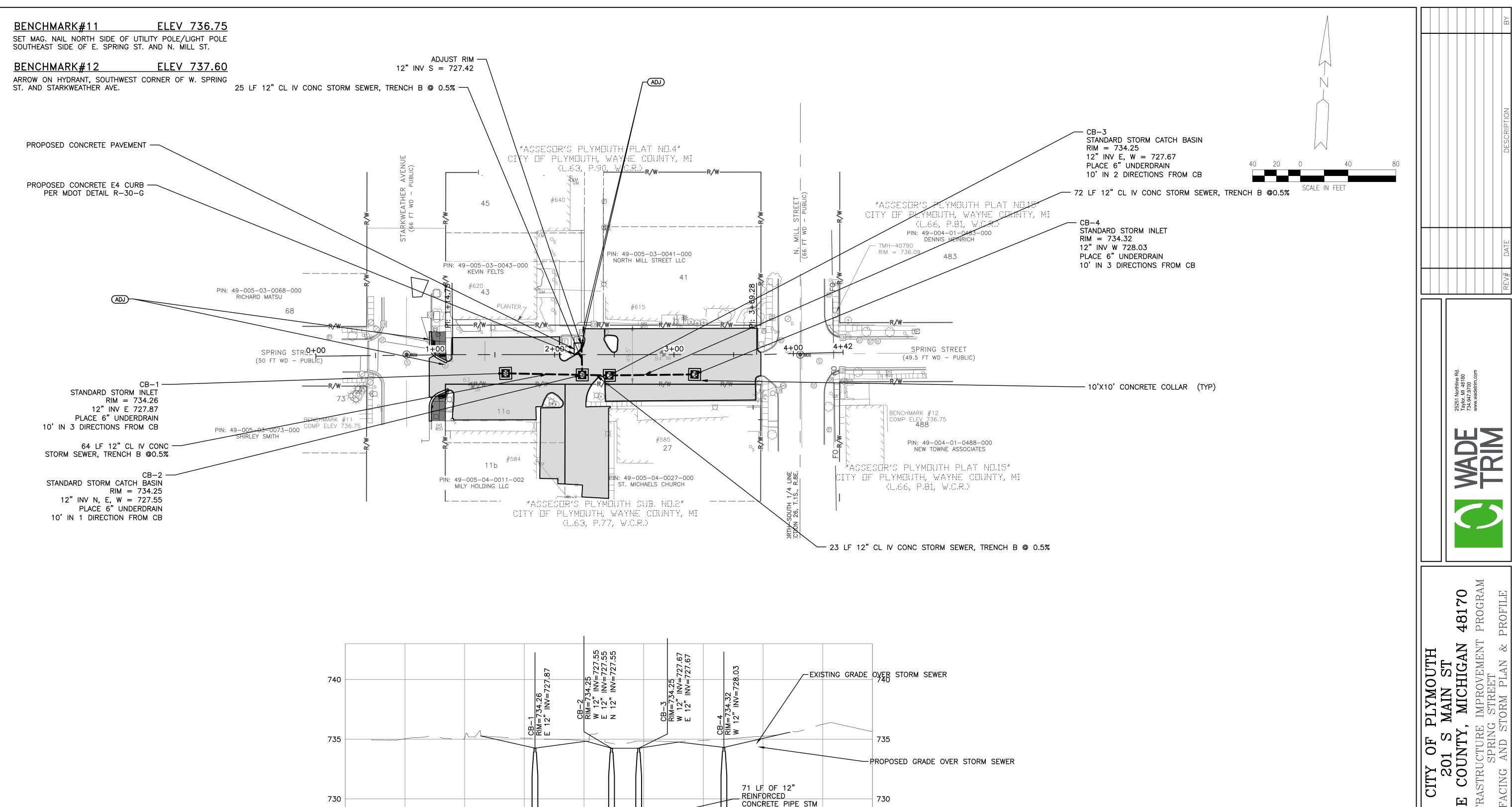
Know what's below. Call before you dig.

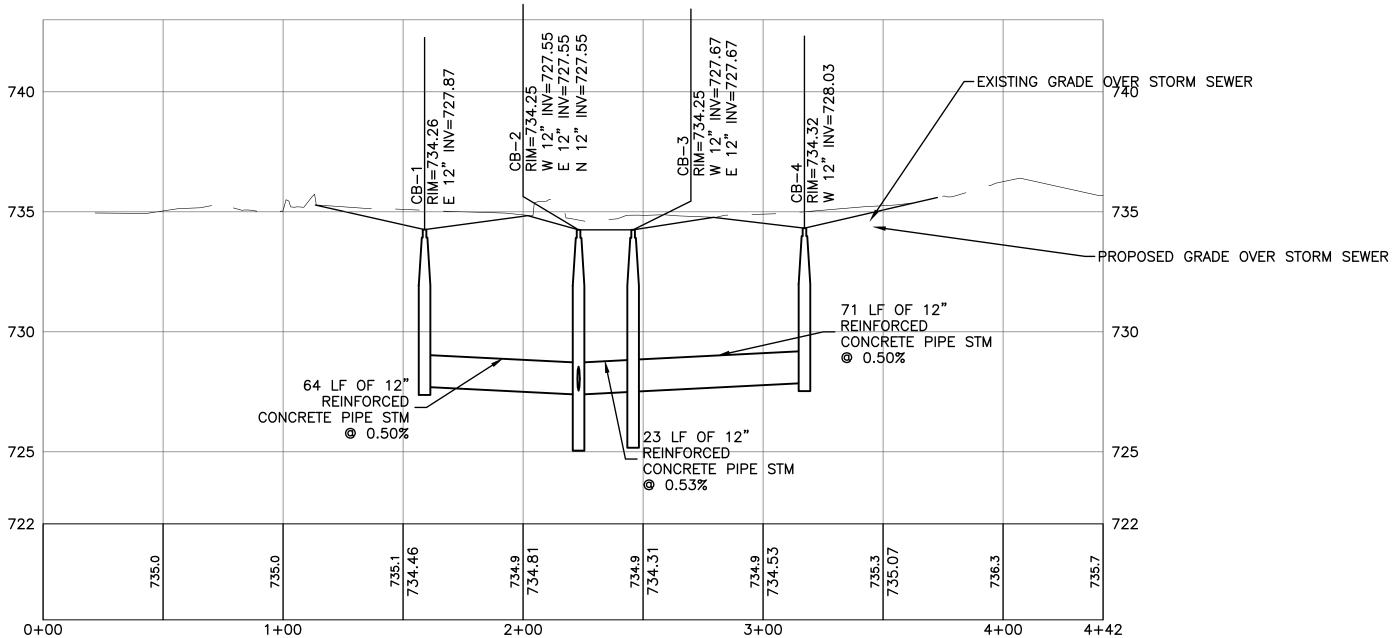
PLY2129-01T

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CITY OF PLYMOUTH
201 S MAIN ST
E COUNTY, MICHIGAN
'RASTRUCTURE IMPROVEMENT F
SPRING STREET
REMOVAL PLAN
INT PROGRAM

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SUMMARY OF QUANTITIES THIS SHEET

	 	
	CY VF	SUBGRADE UNDERCUT AND 21AA AGGREGATE BACKFILL RECONSTRUCT STRUCTURE
	TON	
	TON	
	TON	
	LF	
	SF	
150	SF	SIDEWALK RAMP, CONCRETE 6-INCH
	EA	ADJUST STRUCTURE
	LB	
	LF	UNDERDRAIN, 6-INCH W/ GEOTEXTILE FABRIC WRAP
200		12-INCH STORM SEWER, C76 CLIV, TRENCH B
	ĒA	
1	LS	
6	ĒĀ	INLET FILTER
4	EA	
4	EA	CONCRETE COLLAR
2	EA	STANDARD STORM CATCH BASIN
	EA	CONCRETE PARKING BUMPER
-	FT	CONCRETE CURB, MDOT DET E4
		•

Know what's below. Call before you dig.

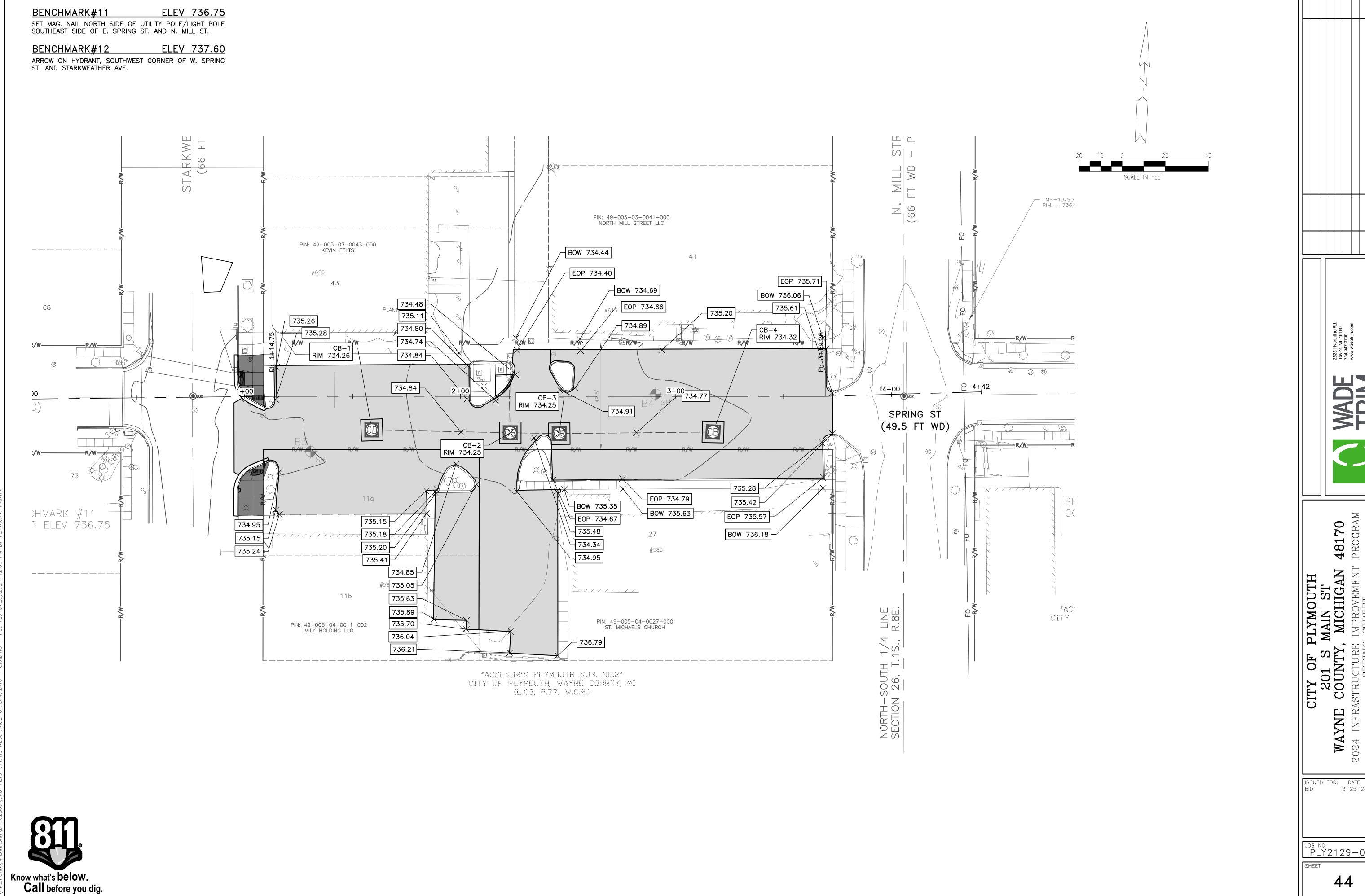
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WAYNE

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48170 PROGRAN

PLY2129-01T



CITY OF PLYMOUTH
201 S MAIN ST
E COUNTY, MICHIGAN 4
RASTRUCTURE IMPROVEMENT F
SPRING STREET
GRADING PLAN
GRADING PLAN

ISSUED FOR: DATE: BY: BID 3-25-24 SWK

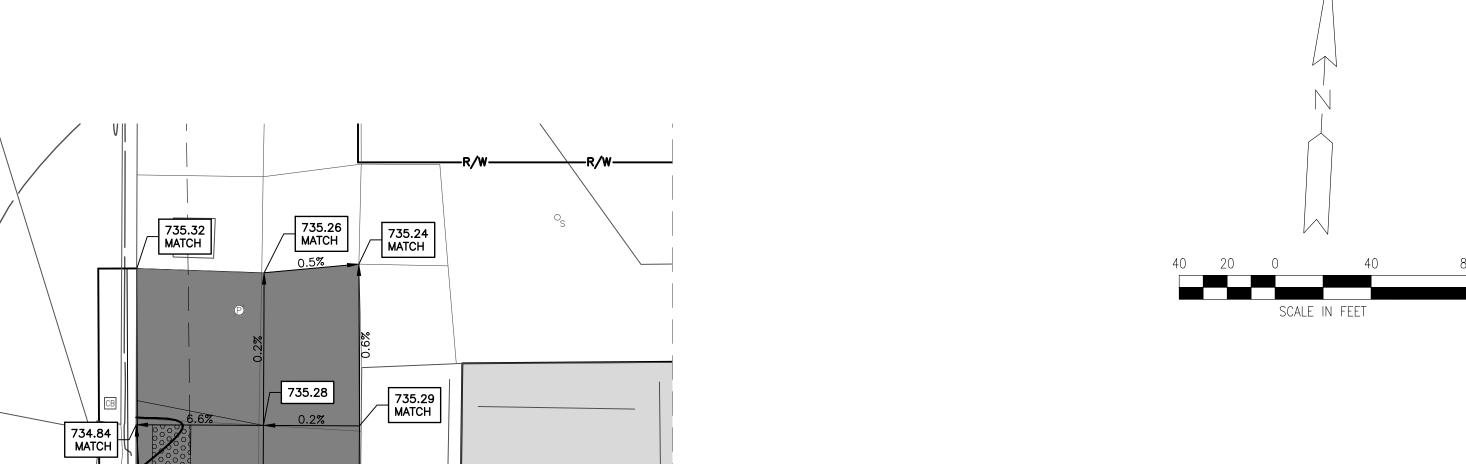
ELEV 736.75

SET MAG. NAIL NORTH SIDE OF UTILITY POLE/LIGHT POLE SOUTHEAST SIDE OF E. SPRING ST. AND N. MILL ST.

BENCHMARK#12

ELEV 737.60

ARROW ON HYDRANT, SOUTHWEST CORNER OF W. SPRING ST. AND STARKWEATHER AVE.



STARKWEATHER A (66 FT WD) 735.26 MATCH 734.96 MATCH 735.44 MATCH 735.23 735.33 MATCH 735.01 MATCH 735.44 MATCH SPRING ST (40 FT WD) 735.17 MATCH 735.17 735.25 MATCH 735.05 MATCH 735.17 735.23 MATCH 735.03 MATCH 735.16 MATCH

SUMMARY OF QUANTITIES THIS SHEET 150 500

6-INCH CONCRETE SIDEWALK RAMP, ADA 4-INCH CONCRETE SIDEWALK

Know what's below.

Call before you dig.

PLY2129-01T

48170 Program

25251 Northline Rd. Taylor, MI 48180 734.947.9700 www.wadetrim.com

CITY OF PLYMOUTH
201 S MAIN ST

WAYNE COUNTY, MICHIGAN 4

2024 INFRASTRUCTURE IMPROVEMENT P
SPRING STREET

ADA RAMPS - SPRING AT STARKWEA

ISSUED FOR: DATE: BY: BID 3-25-24 SWK



DEER AND MAPLE

- EA GATE VALVE AND WELL, 8—INCH EA INLET FILTER
- 17 TON AGGREGATE BASE COURSE, 21AA
 100 SFT CONCRETE DRIVE AND SIDEWALK REMOVAL
 150 SFT CONCRETE SIDEWALK AND SIDEWALK RAMPS
- 30 LFT CURB & GUTTER REMOVAL 60 SY PAVEMENT REMOVAL

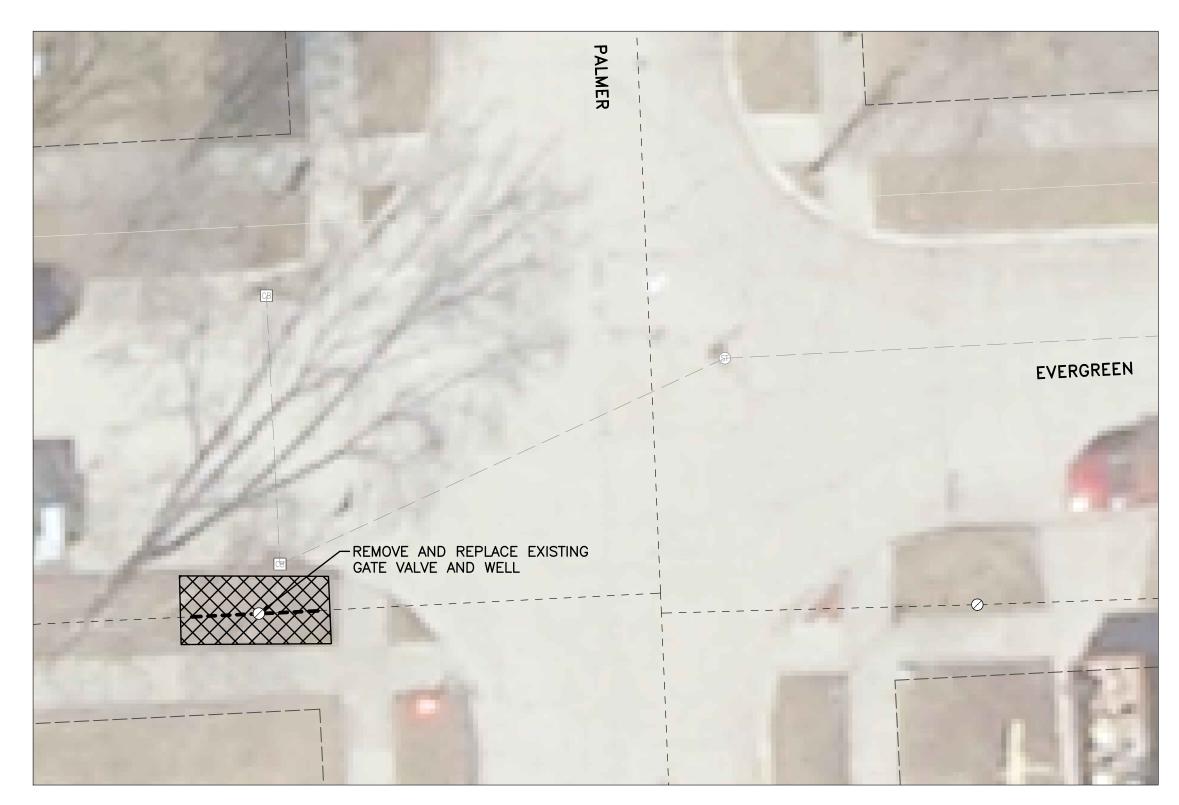
Know what's below.

Call before you dig.

- 2 EA REMOVE EXISTING GATE VALVE AND WELL
- 60 SY 8-INCH PLAIN CONCRETE PAVEMENT
- EA 8" X 6" REDUCER

REMOVE AND REPLACE EXISTING GATE VALVE AND WELL

50 LF WATER MAIN, 8-INCH, PC 350 D.1., TRENCH 'B' 60 SY RESTORATION WITH 3-INCHES TOPSOIL & NURSERY SOD

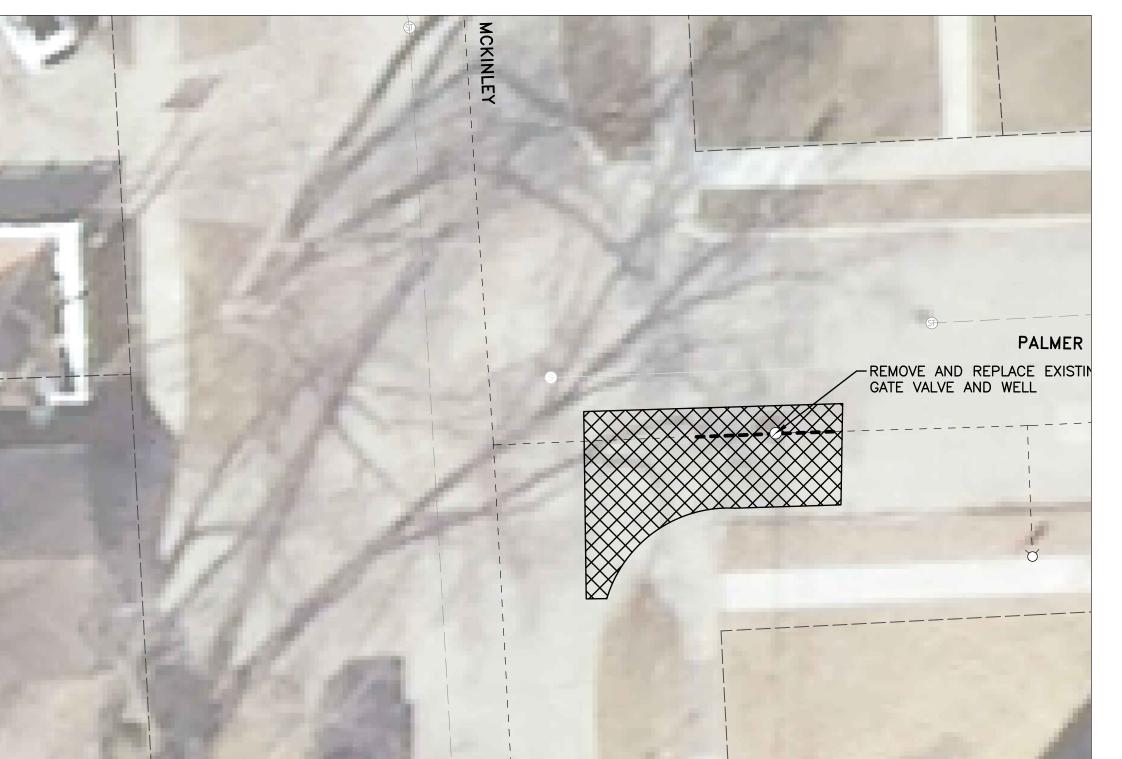


PALMER AND EVERGREEN

- EA GATE VALVE AND WELL, 8-INCH
- EA INLET FILTER EA REMOVE EXISTING GATE VALVE AND WELL
- EA 8" X 6" REDUCER
- 10 LF WATER MAIN, 8-INCH, PC 350 D.1., TRENCH 'B'
 12 SY RESTORATION WITH 3-INCHES TOPSOIL & NURSERY SOD



- EA GATE VALVE AND WELL, 8-INCH
- EA INLET FILTER
- EA REMOVE EXISTING GATE VALVE AND WELL
- EA 8" X 6" REDUCER

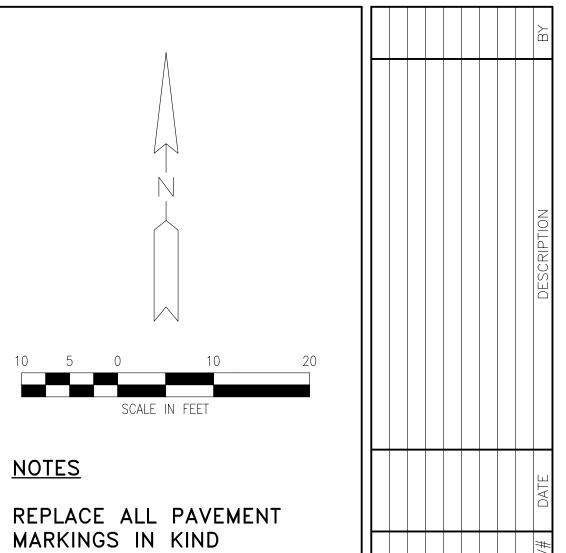


SHELDON AND PALMER

- 10 LF WATER MAIN, 8-INCH, PC 350 D.1., TRENCH 'B'
 12 SY RESTORATION WITH 3-INCHES TOPSOIL & NURSERY SOD

MCKINLEY AND PALMER

- EA GATE VALVE AND WELL, 8—INCH
 EA INLET FILTER
 TON AGGREGATE BASE COURSE, 21AA
 SY PAVEMENT REMOVAL
 EA REMOVE EXISTING GATE VALVE AND WELL
 SY 8—INCH PLAIN CONCRETE PAVEMENT
- EA 8" X 6" REDUCER LF WATER MAIN, 6-INCH, PC 350 D.1., TRENCH 'B'



<u>NOTES</u>



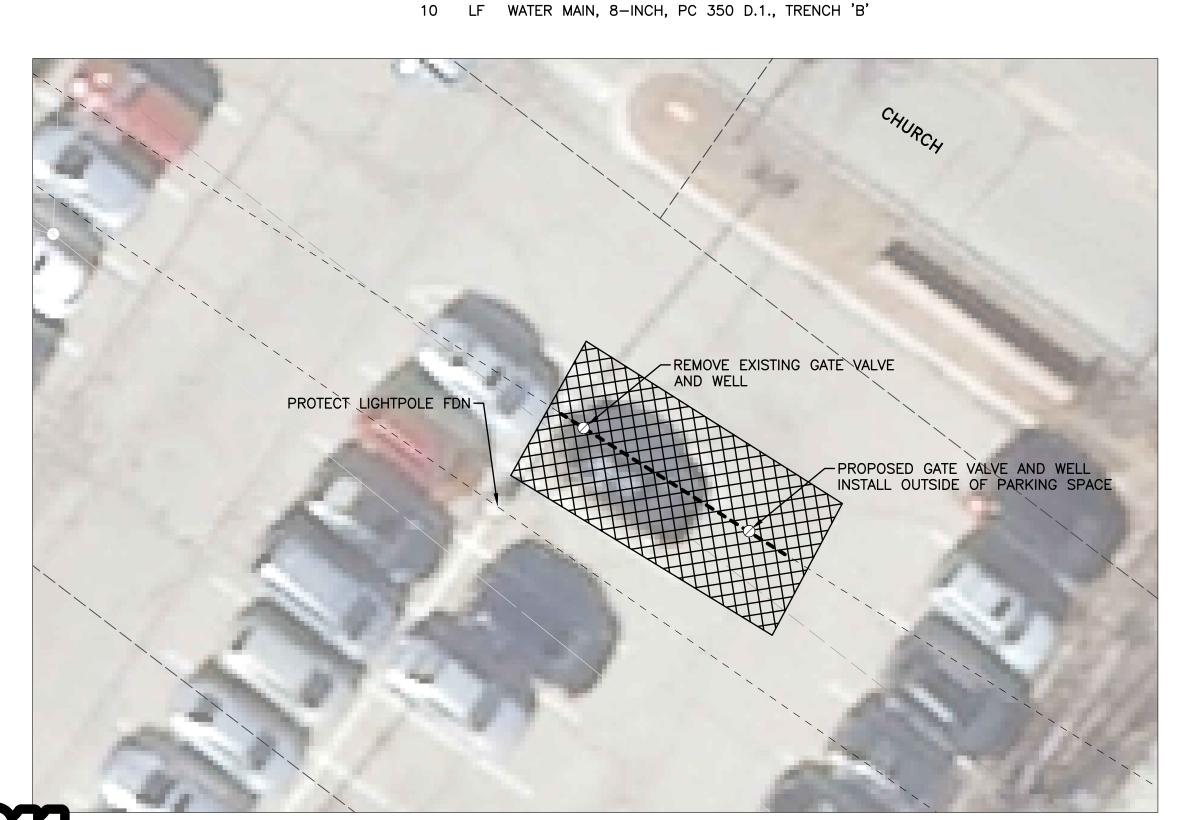


48170 PROGRAI

ISSUED FOR: DATE: BY: BID 3-25-24 SWK

MCKINLEY AND HARTSOUGH

- EA GATE VALVE AND WELL, 8-INCH
- EA INLET FILTER TON AGGREGATE BASE COURSE, 21AA
- 28 SY PAVEMENT REMOVAL
- EA REMOVE EXISTING GATE VALVE AND WELL
- 28 SY 8-INCH PLAIN CONCRETE PAVEMENT



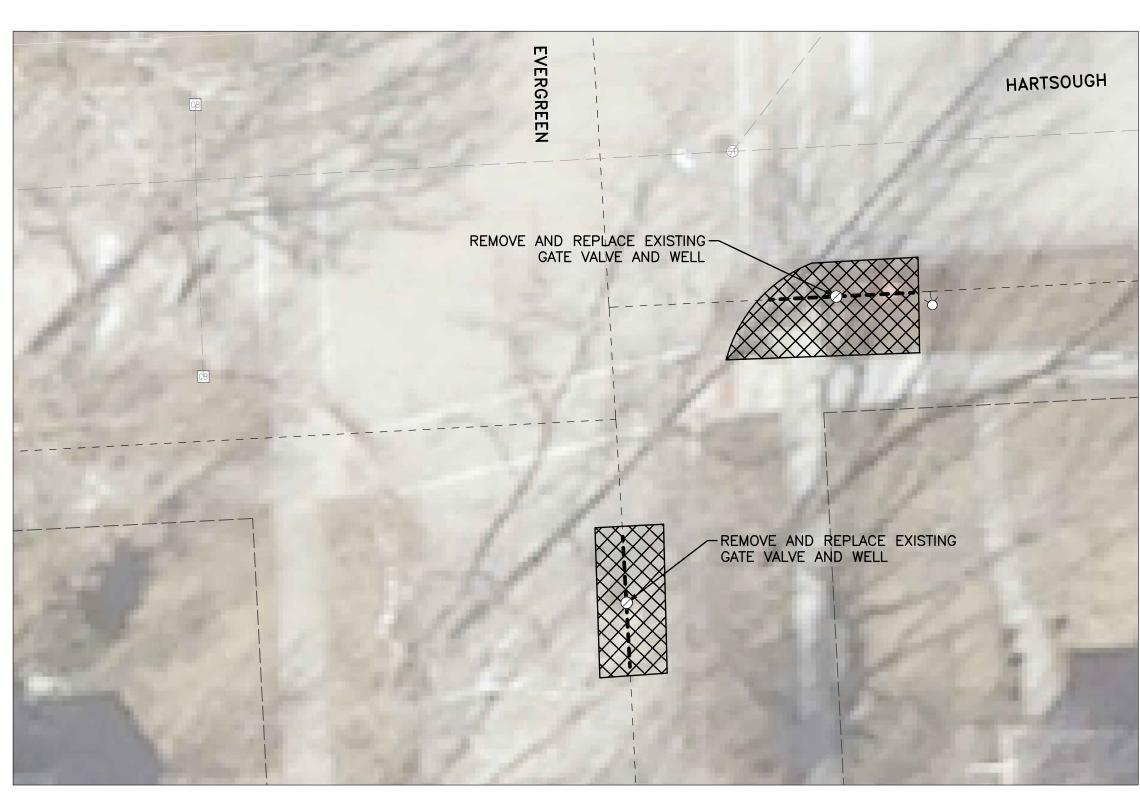
CHURCH AND UNION

- EA GATE VALVE AND WELL, 8—INCH
 TON AGGREGATE BASE COURSE, 21AA
 SY PAVEMENT REMOVAL
 EA REMOVE EXISTING GATE VALVE AND WELL
- 55 SY HMA HAND PATCH

Know what's below.

Call before you dig.

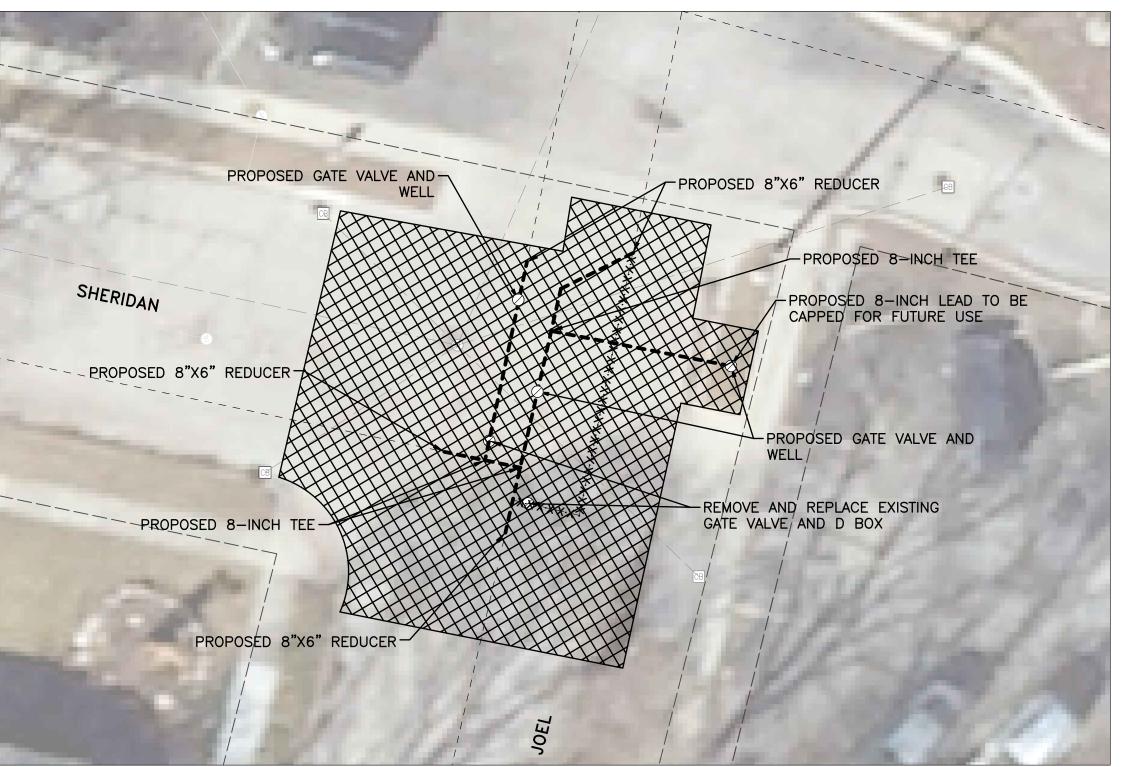
2 EA 8" X 6" REDUCER 35 LF WATER MAIN, 8-INCH, PC 350 D.1., TRENCH 'B'



HARTSOUGH AND EVERGREEN

20 LF WATER MAIN, 8-INCH, PC 350 D.1., TRENCH 'B'
12 SY RESTORATION WITH 3-INCHES TOPSOIL & NURSERY SOD

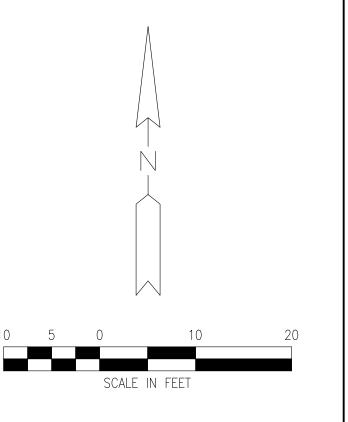
- EA GATE VALVE AND WELL, 8-INCH
- EA INLET FILTER
- TON AGGREGATE BASE COURSE, 21AA SFT CONCRETE DRIVE AND SIDEWALK REMOVAL
- SFT CONCRETE SIDEWALK AND SIDEWALK RAMPS
- SY PAVEMENT REMOVAL
- REMOVE EXISTING GATE VALVE AND WELL
- SY 8-INCH PLAIN CONCRETE PAVEMENT
- EA 8" X 6" REDUCER



JOEL AND SHERIDAN

- EA 8" X 8" X 8" TEE 85 LF WATER MAIN, 8-INCH, PC 350 D.1., TRENCH 'B'
 4 SY RESTORATION WITH 3-INCHES TOPSOIL & NURSERY SOD

- EA GATE VALVE AND WELL, 8—INCH
 EA INLET FILTER
 TON AGGREGATE BASE COURSE, 21AA
 SY PAVEMENT REMOVAL
 LFT CURB & GUTTER REMOVAL
 EA REMOVE EXISTING GATE VALVE AND D BOX
 SY 8—INCH PLAIN CONCRETE PAVEMENT 180 SY 8-INCH PLAIN CONCRETE PAVEMENT
- 3 EA 8" X 6" REDUCER



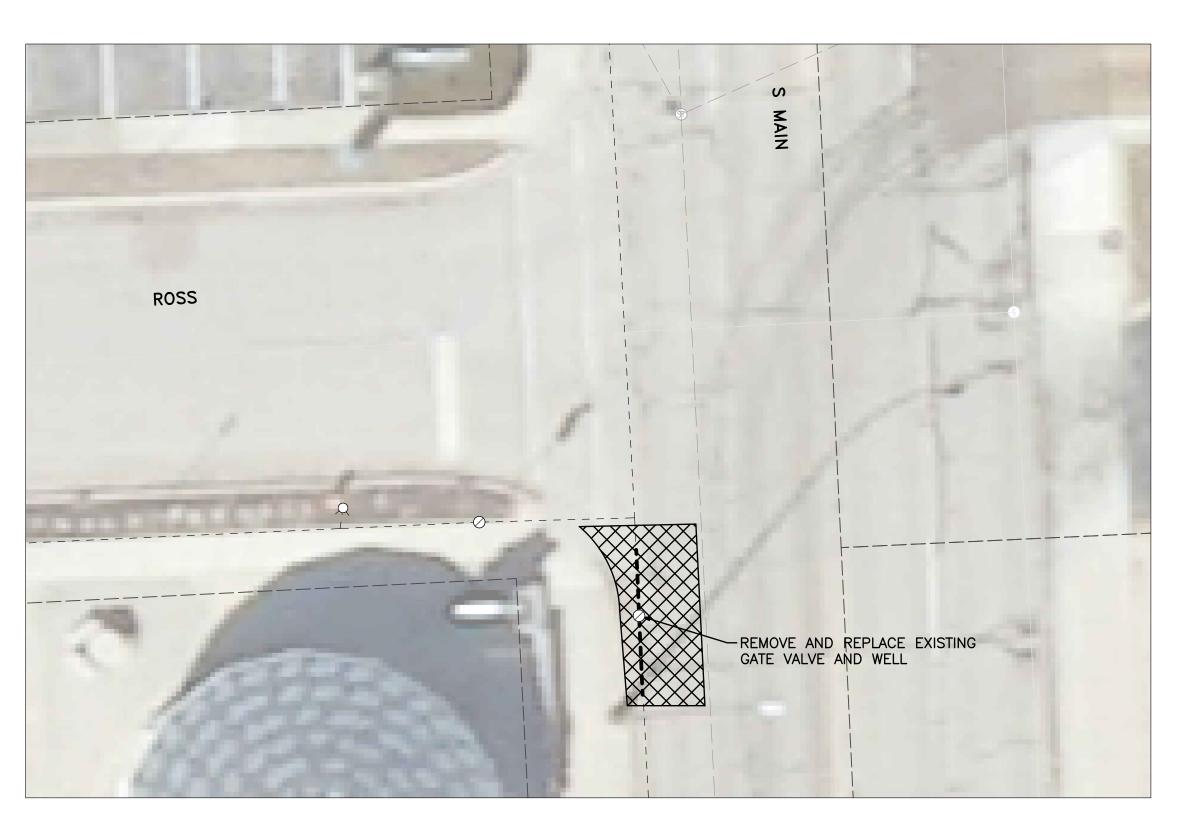
<u>NOTES</u>

REPLACE ALL PAVEMENT MARKINGS IN KIND



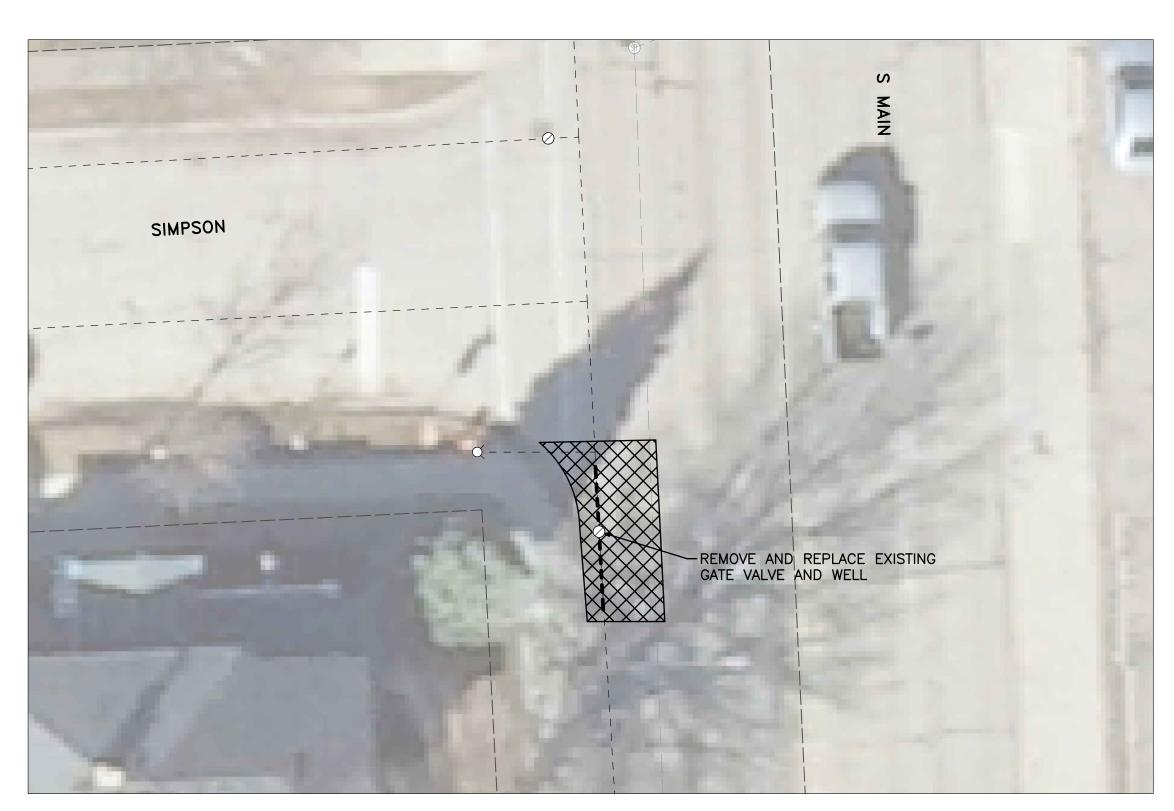
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ISSUED FOR: DATE: BY: BID 3-25-24 SW





- 1 EA GATE VALVE AND WELL, 8-INCH
 8 TON AGGREGATE BASE COURSE, 21AA
 28 SY PAVEMENT REMOVAL
 1 EA REMOVE EXISTING GATE VALVE AND WELL
 28 SY HMA, HAND PATCH
- 10 LF WATER MAIN, 8-INCH, PC 350 D.1., TRENCH 'B'



S MAIN AND SIMPSON

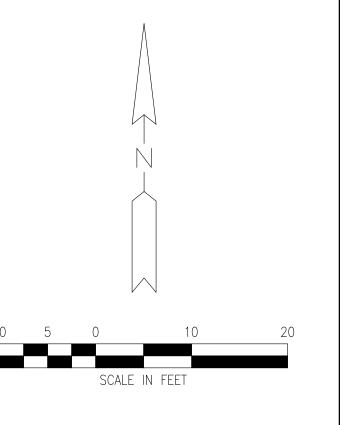
EA GATE VALVE AND WELL, 8-INCH EA INLET FILTER TON AGGREGATE BASE COURSE, 21AA SY PAVEMENT REMOVAL EA REMOVE EXISTING GATE VALVE AND WELL 28 SY HMA, HAND PATCH 10 LF WATER MAIN, 8-INCH, PC 350 D.1., TRENCH 'B'





MCKINLEY BETWEEN HARTSOUGH & PALMER

- 1 EA GATE VALVE AND WELL, 8-INCH
 4 TON AGGREGATE BASE COURSE, 21AA
 17 SY PAVEMENT REMOVAL
 1 EA REMOVE EXISTING GATE VALVE AND WELL
 17 SY 8-INCH PLAIN CONCRETE PAVEMENT
 10 LF WATER MAIN, 8-INCH, PC 350 D.1., TRENCH 'B'

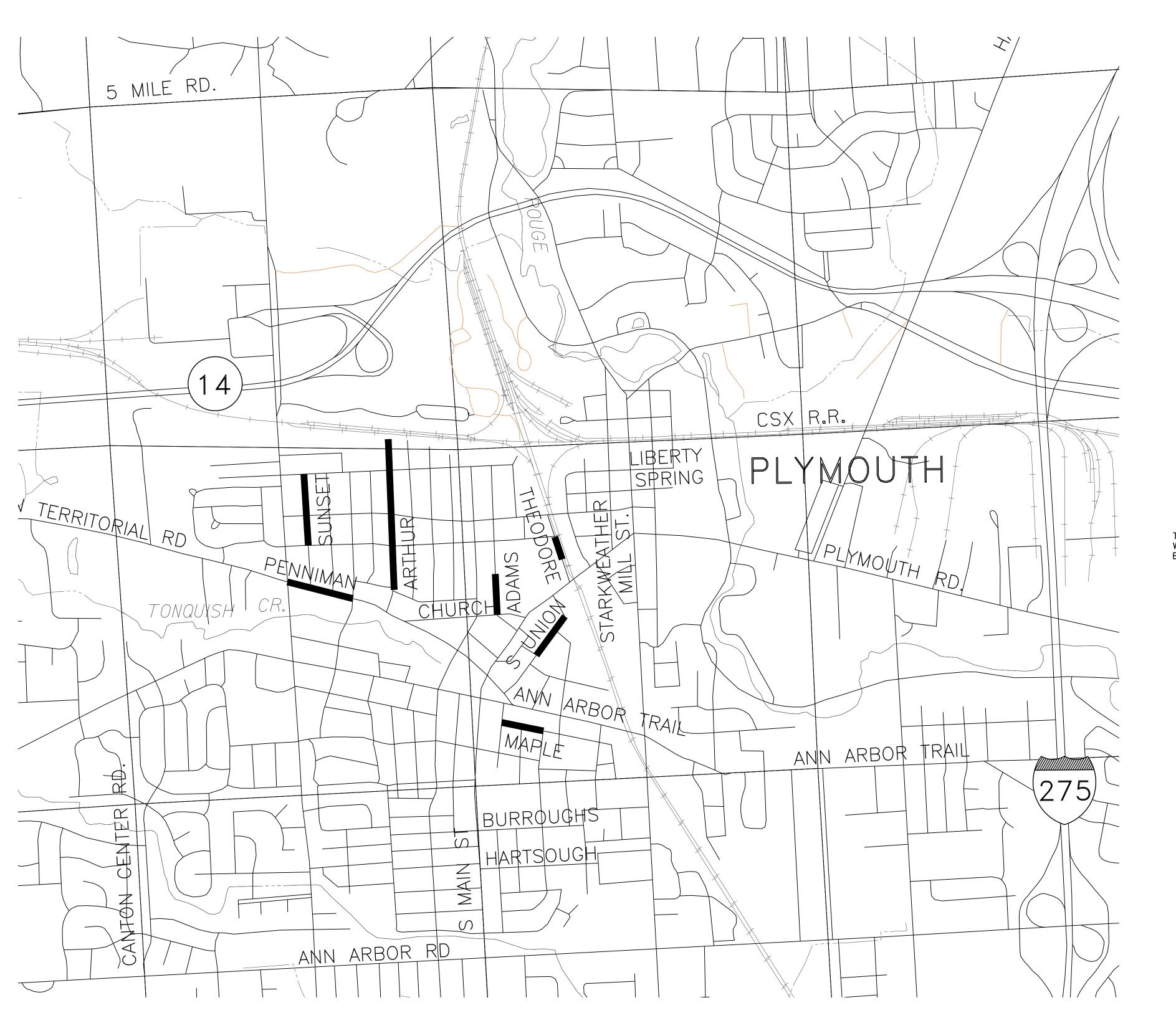


NOTES

REPLACE ALL PAVEMENT MARKINGS IN KIND



ISSUED FOR: DATE: BY: BID 3-25-24 SWK



THE AREAS ON THIS MAP SHOW THE APPROXIMATE LIMITS FOR THE WORK ASSOCIATED WITH BID ALTERNATE 1. CONTRACTOR SHALL BID QUANTITIES SHOWN IN PROPOSAL FOR THIS WORK.

Know what's below.
Call before you dig.

CITY OF PLYMOUTH

201 S MAIN ST

WAYNE COUNTY, MICHIGAN 4

SO24 INFRASTRUCTURE IMPROVEMENT P

BID ALTERNATE 1

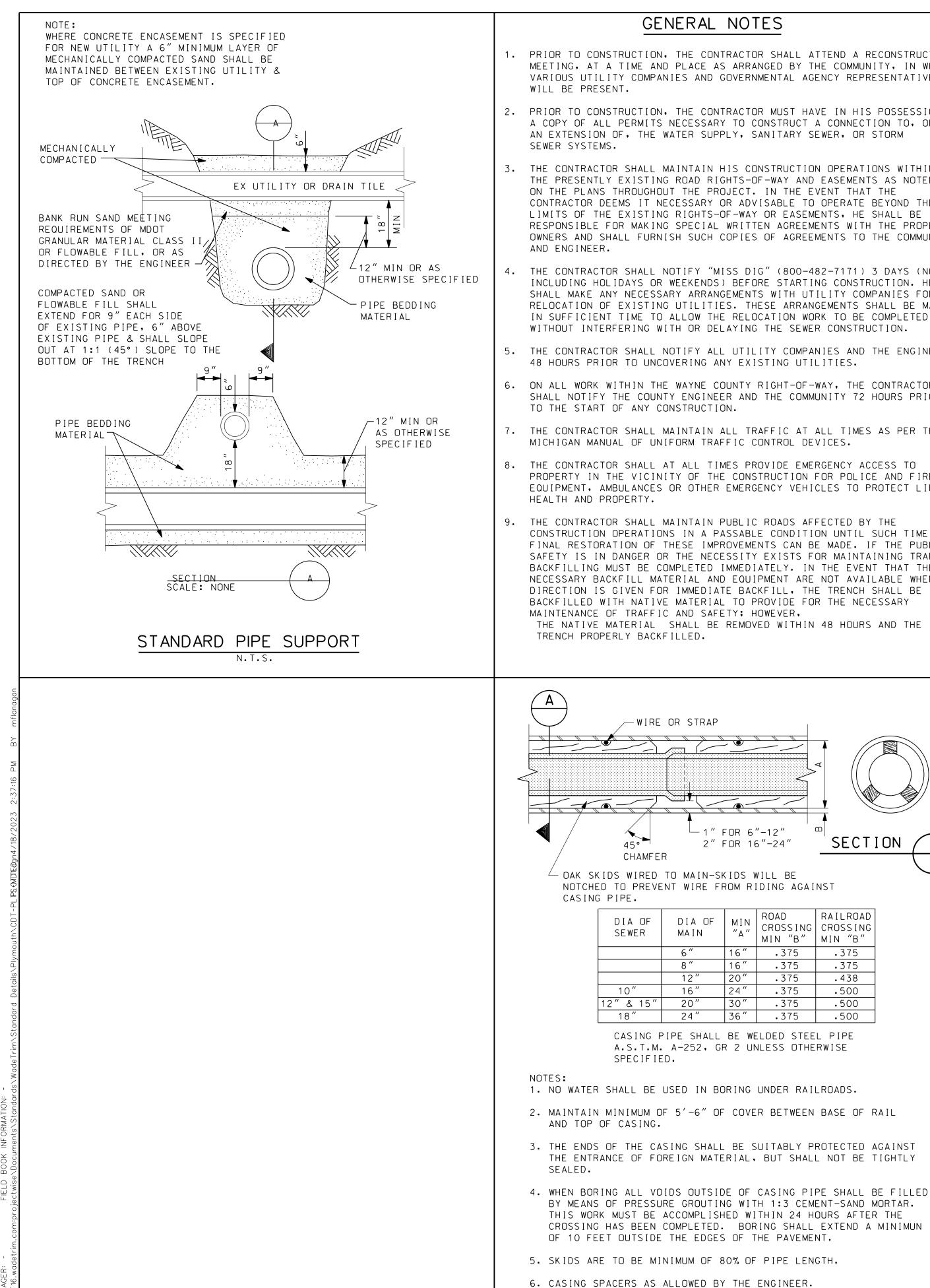
FRASTRUCTURE IMPROVEMENT PROGRAM

25251 Northline Rd. Taylor, MI 48180 734.947.9700 www.wadetrim.com

WADE

48170 PROGRAM

PLY2129-01T



GENERAL NOTES GENERAL NOTES CONTINUED

- 1. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL ATTEND A RECONSTRUCTION MEETING, AT A TIME AND PLACE AS ARRANGED BY THE COMMUNITY, IN WHICH VARIOUS UTILITY COMPANIES AND GOVERNMENTAL AGENCY REPRESENTATIVES WILL BE PRESENT.
- 2. PRIOR TO CONSTRUCTION, THE CONTRACTOR MUST HAVE IN HIS POSSESSION A COPY OF ALL PERMITS NECESSARY TO CONSTRUCT A CONNECTION TO, OR AN EXTENSION OF, THE WATER SUPPLY, SANITARY SEWER, OR STORM SEWER SYSTEMS.
- 3. THE CONTRACTOR SHALL MAINTAIN HIS CONSTRUCTION OPERATIONS WITHIN THE PRESENTLY EXISTING ROAD RIGHTS-OF-WAY AND EASEMENTS AS NOTED ON THE PLANS THROUGHOUT THE PROJECT. IN THE EVENT THAT THE CONTRACTOR DEEMS IT NECESSARY OR ADVISABLE TO OPERATE BEYOND THE LIMITS OF THE EXISTING RIGHTS-OF-WAY OR EASEMENTS, HE SHALL BE RESPONSIBLE FOR MAKING SPECIAL WRITTEN AGREEMENTS WITH THE PROPERTY OWNERS AND SHALL FURNISH SUCH COPIES OF AGREEMENTS TO THE COMMUNITY AND ENGINEER.
- 4. THE CONTRACTOR SHALL NOTIFY "MISS DIG" (800-482-7171) 3 DAYS (NOT INCLUDING HOLIDAYS OR WEEKENDS) BEFORE STARTING CONSTRUCTION. HE SHALL MAKE ANY NECESSARY ARRANGEMENTS WITH UTILITY COMPANIES FOR RELOCATION OF EXISTING UTILITIES. THESE ARRANGEMENTS SHALL BE MADE IN SUFFICIENT TIME TO ALLOW THE RELOCATION WORK TO BE COMPLETED WITHOUT INTERFERING WITH OR DELAYING THE SEWER CONSTRUCTION.
- 5. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES AND THE ENGINEER 48 HOURS PRIOR TO UNCOVERING ANY EXISTING UTILITIES.
- 6. ON ALL WORK WITHIN THE WAYNE COUNTY RIGHT-OF-WAY, THE CONTRACTOR SHALL NOTIFY THE COUNTY ENGINEER AND THE COMMUNITY 72 HOURS PRIOR TO THE START OF ANY CONSTRUCTION.
- 7. THE CONTRACTOR SHALL MAINTAIN ALL TRAFFIC AT ALL TIMES AS PER THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- 8. THE CONTRACTOR SHALL AT ALL TIMES PROVIDE EMERGENCY ACCESS TO PROPERTY IN THE VICINITY OF THE CONSTRUCTION FOR POLICE AND FIRE EQUIPMENT, AMBULANCES OR OTHER EMERGENCY VEHICLES TO PROTECT LIFE, HEALTH AND PROPERTY.
- 9. THE CONTRACTOR SHALL MAINTAIN PUBLIC ROADS AFFECTED BY THE CONSTRUCTION OPERATIONS IN A PASSABLE CONDITION UNTIL SUCH TIME AS FINAL RESTORATION OF THESE IMPROVEMENTS CAN BE MADE. IF THE PUBLIC SAFETY IS IN DANGER OR THE NECESSITY EXISTS FOR MAINTAINING TRAFFIC. BACKFILLING MUST BE COMPLETED IMMEDIATELY. IN THE EVENT THAT THE NECESSARY BACKFILL MATERIAL AND EQUIPMENT ARE NOT AVAILABLE WHEN DIRECTION IS GIVEN FOR IMMEDIATE BACKFILL, THE TRENCH SHALL BE BACKFILLED WITH NATIVE MATERIAL TO PROVIDE FOR THE NECESSARY MAINTENANCE OF TRAFFIC AND SAFETY; HOWEVER, THE NATIVE MATERIAL SHALL BE REMOVED WITHIN 48 HOURS AND THE

-1" FOR 6"-12"

"A"

|24" |

36"

CASING PIPE SHALL BE WELDED STEEL PIPE

A.S.T.M. A-252, GR 2 UNLESS OTHERWISE

STANDARD CASING SECTON

2" FOR 16"-24"

ROAD

MIN | CROSSING | CROSSING

.375

• 375

.375

.375

.375

| MIN "B" | MIN "B"

.375 | .500

SECTION

RAILROAD

.375

.375

.438

.500

.500

-WIRE OR STRAP

DIA OF

MAIN

20"

24"

CHAMFER

DIA OF

SEWER

12" & 15

SPECIFIED.

- 10. NO STREET, ROAD OR SECTION THEREOF SHALL BE CLOSED TO THROUGH TRAFFI UNLESS AUTHORIZED BY THE AGENCY WITH JURISDICTION OVER THE ROADS. PRIOR TO CLOSING A STREET, ROAD, OR SECTION THEREOF, THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A COPY OF A DETOUR PLAN APPROVED BY THE AGENCY HAVING JURISDICTION OVER THE ROADS.
- 11. IN THE EVENT ROADS ARE TO BE CLOSED, THE CONTRACTOR SHALL NOTIFY THE LOCAL FIRE DEPARTMENT, POLICE DEPARTMENT, LOCAL ROAD AUTHORITY, TRANSIT AUTHORITY, PUBLIC SCHOOL SYSTEM, LOCAL TRASH PICKUP AUTHORITY, AND PUBLIC AND PRIVATE UTILITIES DAILY AS TO WHAT STREETS WILL BE PARTLY BLOCKED OR CLOSED, THE LENGTH OF TIME THE STREETS WILL BE BLOCKED OR CLOSED AND WHEN THE STREETS WILL BE REOPENED TO TRAFFIC.
- 12. PAVED STREETS AND DRIVEWAYS SHALL BE MAINTAINED IN A REASONABLE STATE OF CLEANLINESS AND THE CONTRACTOR SHALL REMOVE ACCUMULATIONS OF DEBRIS CAUSED BY HIS OPERATIONS. THE CONTRACTOR SHALL HAVE, AS A MINIMUM, AN OPERATING SWEEPER BROOM ON THE SITE AT ALL TIMES. THE PAVEMENT SHALL BE CLEANED AT THE CLOSE OF EACH DAYS OPERATION AND AS OFTEN AS NECESSARY BEFORE THAT TIME. FAILURE TO COMPLY SHALL BE CAUSE TO STOP CONSTRUCTION, CONTRACTOR SHALL ALSO COMPLY WITH THE LOCAL AIR POLLUTION CONTROL ORDINANCE.
- 13. ALL GRAVEL AND DIRT ROADS, STREETS OR DRIVEWAYS USED SHALL BE MAINTAINED BY GRADING, PLACING DUST PALLIATIVES, AND MAINTENANCE GRAVEL IN SUFFICIENT QUANTITIES TO ELIMINATE DUST AND MAINTAIN TRAFFIC AS DIRECTED BY THE AGENCY.
- 14. CONTRACTOR SHALL PROVIDE ALL NECESSARY SHEETING, SHORING, DEWATERING, BRACING, TRENCH BOXES, ETC., TO PERFORM WORK SAFELY AND PROTECT EXISTING UTILITIES AND IMPROVEMENTS.
- 15. THE FLOW IN THE EXISTING SEWERS SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.16. CULVERTS, DITCHES, DRAIN TILES, TILE FIELD, DRAINAGE STRUCTURES, ETC., THAT ARE DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE IMMEDIATELY RESTORED.
- 16. CULVERT, DITCHES, DRAIN TILES, TILE FIELDS, DRAINAGE STRUCTURES, ETC. THAT ARE DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE IMMEDIATELY RESTORED.
- 17. ALL PROPERTY IRONS AND MONUMENTS, IF DISTURBED OR DESTROYED BY THE CONTRACTOR'S OPERATION, SHALL BE REPLACED BY A LICENSED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.
- 18. AFTER ALL THE PIPE, STRUCTURES, ETC., HAVE BEEN LAID, CONSTRUCTED, AND BACKFILLED, THE SYSTEM SHALL BE TESTED AND FINAL INSPECTED. THE INSPECTION AND TESTING SHALL CONSIST OF A FIRST INSPECTION. TELEVISION INSPECTION (IF APPLICABLE) TESTING, AND FINAL INSPECTION AND MEASUREMENT. THE CONTRACTOR SHALL PROVIDE THE NECESSARY SUPERVISION, LABOR, TOOLS, EQUIPMENT, AND THE MATERIALS NECESSARY FOR THE TESTS WHICH SHALL BE CONDUCTED IN THE PRESENCE OF THE ENGINEER. HE ENGINEER SHALL BE NOTIFIED TWO (2) WORKING DAYS IN ADVANCE OF ALL TESTING.

NATURAL BANK RUN SAND MEETING THE

GRANULAR MATERIAL.

MAXIMUM UNIT WEIGHT SPECIFICATIONS

COMPACT TO 95% OF

TRENCH A OR B

LOAD FACTOR: 1.9

CLASS "R-B"

BACKFILL PER

REQUIREMENT OF MDOT CLASS II

-3500 P.S.I. CONCRETE ARCH

-CRUSHED ANGULAR

BEDDING MDOT 21AA-

-NATURAL BANK RUN

SAND MEETING THE

GRANULAR MATERIAL.

COMPACT TO 95% OF

MAXIMUM UNIT WEIGHT

OF PIPE

RIGID PIPE BEDDING DETAILS

MAX WIDTH OF TRENCH AT

OVER 60" PIPE - OUTSIDE

MIN WIDTH OF TRENCH 12"

SHALL BE 6" ON EACH SIDE

DIAMETER OF PIPE +24"

ABOVE THE TOP OF PIPE

6" THRU 12" PIPE - 30" WIDE

15" THRU 36" PIPE - 0.D. +16

42" THRU 60" PIPE - 0.D. +20

12" ABOVE TOP OF PIPE

REQUIREMENT OF

MDOT CLASS II

NATURAL STONE

TRENCH A OR B

SPECIFICATIONS

(PLAIN CONCRETE)

LOAD FACTOR: 1.9

CLASS "R-A

TRENCH A OR B

///////

LOAD FACTOR: 1.9

CLASS "R-C"

BACKFILL PER SPECIFICATIONS

OD. +8 INCHES OR

IS GREATER

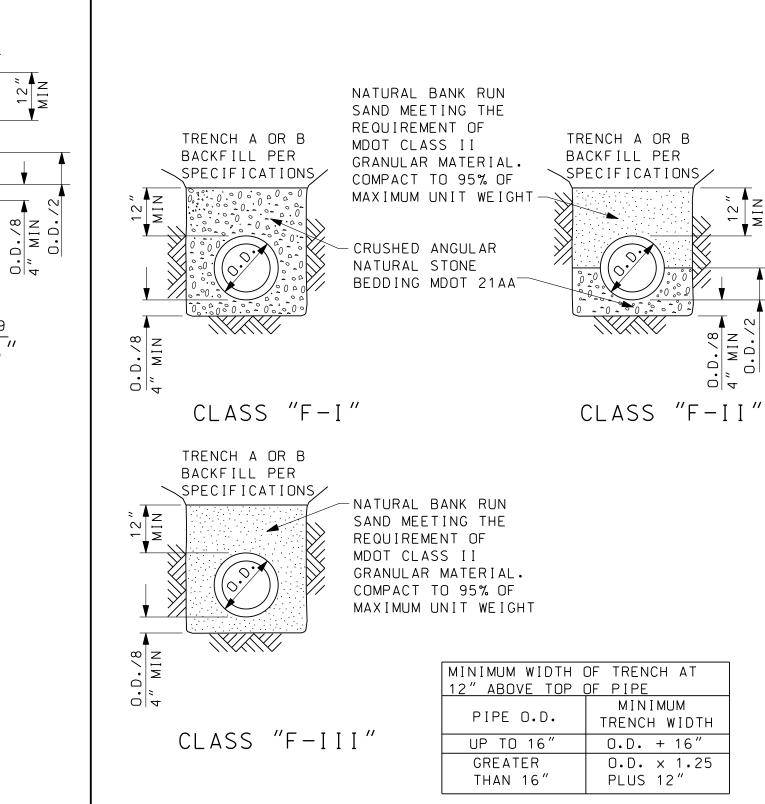
MIN WIDTH OF ARCH

1-1/4 O.D. WHICHEVER

タ BACKFILL PER

GENERAL NOTES CONTINUED

- 19. THE FIRST INSPECTION SHALL BE COMPLETED AND ALL REPAIRS MADE IN AMPLE TIME SO THAT THE TELEVISION INSPECTION OF THE UNDERGROUND PORTION OF THE SYSTEM CAN BE COMPLETED WITHIN FOUR (4) WEEKS OF THE COMPLETION OF THE CONSTRUCTION. WHEN RE-TELEVISION IS NECESSARY, AN ADDITIONAL TWO (2) WEEKS WILL BE ALLOWED FOR COMPLETION. TESTING OF THE SYSTEM AS HEREIN DESCRIBED SHALL IMMEDIATELY FOLLOW THE TELEVISION INSPECTION AND SHALL BE COMPLETED WITHIN A TWO (2) WEEK PERIOD.
- AMBULANCE AND EMERGENCY SERVICES, DEPARTMENT OF PUBLIC WORKS, PUBLIC 20. FAILURE TO MAINTAIN A SCHEDULE IN COMPLIANCE WITH THESE TERMS WILL AUTOMATICALLY CAUSE THE STOPPAGE OF OTHER WORK AT THE PARTICULAR SITE IN QUESTION UNTIL SUCH TIME AS THE FINAL INSPECTION OF THE COMPLETED UNDERGROUND PORTION OF THE SYSTEM HAS PROGRESSED TO ACCEPTABLE LIMITS.
 - 21. THE CONTRACTOR SHALL HAVE THE UNDERGROUND PORTION OF THE SEWER SYSTEM READY FOR THE FIRST INSPECTION WITHIN TWO (2) WEEKS AFTER THE COMPLETION OF UTILITY.
 - 22. THE FIRST INSPECTION SHALL CONSIST OF A VISIBLE AND AUDIBLE CHECK OF SEWERS, MANHOLES, GATE WELLS, AND OTHER STRUCTURES TO ASCERTAIN THAT THE STRUCTURE STEPS HAVE BEEN PLACED, ALL LIFT HOLES PLUGGED, THE CHANNELING OF THE MANHOLE BOTTOMS COMPLETED, ALL VISIBLE OR AUDIBLE LEAKS STOPPED, ALL PIPE HAS BEEN PLACED STRAIGHT AND TRUE TO THE PROPER GRADES AND ELEVATION, THE REQUIRED ADJUSTING RINGS AND FRAME AND COVER PROPERTY INSTALLED, ALL TRENCHES AND STRUCTURES BACKFILLED IN AN ACCEPTABLE MANNER AND THAT THE SYSTEM HAS BEEN THOROUGHLY CLEANED.
 - 23. THE FIRST INSPECTION SHALL BE CONSIDERED COMPLETED WHEN ALL TREE PAIRS HAVE BEEN MADE AND THE SYSTEM IS READY FOR A TELEVISION INSPECTION AND SUBSEQUENT TESTING.
 - 24. TRENCH BACKFILL UNDER ROAD SURFACES, PAVEMENTS, CURBS, DRIVEWAY, SIDEWALK AND WHERE THE TRENCH EDGE IS WITHIN 3-FEET OF THE PAVEMENT SHALL BE TRENCH B (SAND) PER SPECIFICATIONS SECTION 312333, TRENCHING AND BACKFILLING.
 - 25. AFTER ALL TESTING, TELEVISION INSPECTION, FINAL RESTORATION AND CLEAN-UP HAS BEEN COMPLETED, A FINAL INSPECTION AND MEASUREMENT WILL BE DONE. THE FINAL INSPECTION SHALL BE REQUESTED BY THE CONTRACTOR AND CONSIST OF, BUT IS NOT LIMITED TO, CHECKING FOR PROPER ALIGNMENT, PROPER GRADE, CLEANLINESS, LEAKS, CONFORMANCE TO THE PLANS AND SPECIFICATION, PROPER STRUCTURAL AND MECHANICAL ADJUSTMENTS, AND RESTORATION, FINAL MEASUREMENT INCLUDES STRUCTURE ELEVATIONS, DISTANCES BETWEEN STRUCTURES, AND CONFIRMATION UTILITIES ARE LOCATED WITHIN EASEMENT AND RIGHT-OF-WAY AREAS.
 - 26. SUCCESSFUL COMPLETION OF ANY TEST OR INSPECTION SHALL NOT RELIEVE THE CONTRACTOR FROM THEIR RESPONSIBILITY TO CORRECT ANY DEFICIENCY OR NONCONFORMANCE TO THE PLANS OR SPECIFICATIONS WHICH MAY THEREAFTER BECOME KNOWN.

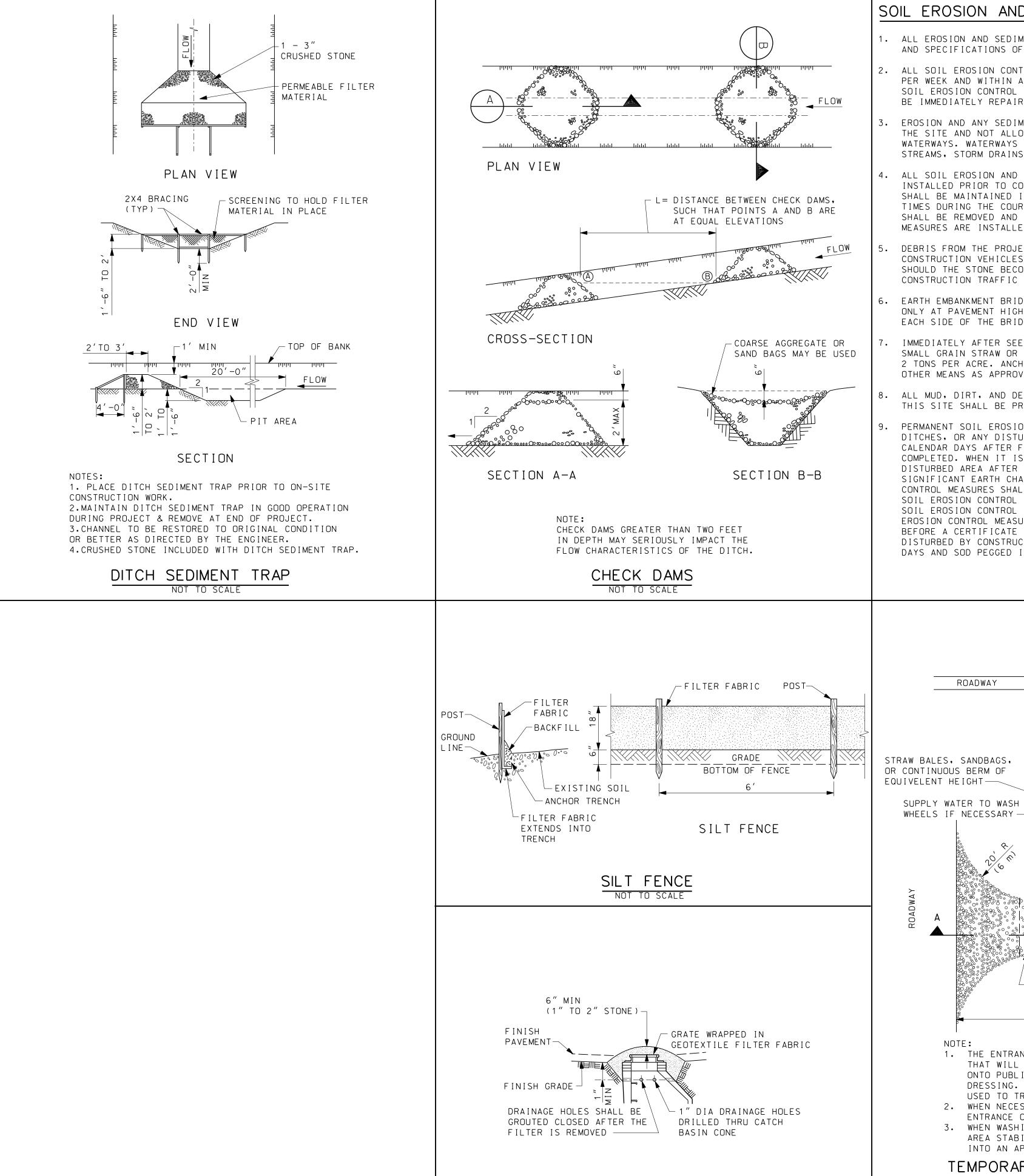


FLEXIBLE PIPE BEDDING DETAILS

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DRAINAGE STRUCTURE FILTER

NOT TO SCALE

SOIL EROSION AND SEDIMENTATION CONTROL NOTES SOIL EROSION AND SEDIMENTATION CONTROL NOTES

- 1. ALL EROSION AND SEDIMENT CONTROL WORK SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE AGENCY HAVING JURISDICTION.
- 2. ALL SOIL EROSION CONTROL MEASURES SHALL BE CHECKED A MINIMUM OF ONCE PER WEEK AND WITHIN A MINIMUM OF 24 HOURS AFTER EVERY RAINFALL, ANY SOIL EROSION CONTROL MEASURES DAMAGED OF RENDERED INEFFECTIVE SHALL BE IMMEDIATELY REPAIRED OR REMOVED AND REPLACED AT NO ADDITIONAL COST
- 3. EROSION AND ANY SEDIMENT FROM WORK ON THIS SITE SHALL BE CONTAINED ON THE SITE AND NOT ALLOWED TO COLLECT ON ANY OFF-SITE AREAS OR IN WATERWAYS. WATERWAYS INCLUDE BOTH NATURAL AND MANMADE OPEN DITCHES. STREAMS, STORM DRAINS, LAKES, AND PONDS.
- 4. ALL SOIL EROSION AND SEDIMENTATION CONTROL (SESC) DEVICES SHALL BE INSTALLED PRIOR TO CONTRACTOR BEGINNING ANY WORK. ALL SESC DEVICES SHALL BE MAINTAINED IN AN EFFECTIVE, FUNCTIONING CONDITION AT ALL TIMES DURING THE COURSE OF THE WORK. ALL TEMPORARY SESC DEVICES SHALL BE REMOVED AND THE AREA RESTORED AFTER THE PERMANENT SESC MEASURES ARE INSTALLED AND FUNCTIONING.
- DEBRIS FROM THE PROJECT SHALL BE LEFT ON THE SITE BY DELIVERY OR CONSTRUCTION VEHICLES THROUGH THE USE OF CLEAN STONE EXITS. SHOULD THE STONE BECOME INEFFECTIVE IT WILL BE REPLACED. ALL CONSTRUCTION TRAFFIC WILL USE THE CLEAN STONE EXITS.
- 6. EARTH EMBANKMENT BRIDGES PLACED OVER NEW PAVEMENT SHALL BE LOCATED ONLY AT PAVEMENT HIGH-POINTS AND SHALL HAVE STRAW BALES PLACED ALONG EACH SIDE OF THE BRIDGE FOR THE WIDTH OF THE PAVEMENT.
- 7. IMMEDIATELY AFTER SEEDING, MULCH ALL SEEDED AREAS WITH UNWEATHERED SMALL GRAIN STRAW OR HAY SPREAD UNIFORMLY AT THE RATE OF 1-1/2 TO 2 TONS PER ACRE. ANCHOR MULCH WITH DISC-TYPE MULCH ANCHORING TOOL OR OTHER MEANS AS APPROVED BY THE AGENCY WITH JURISDICTION.
- 8. ALL MUD, DIRT, AND DEBRIS TRACKED OR SPILLED ONTO EXISTING ROADS FROM THIS SITE SHALL BE PROMPTLY REMOVED BY THE CONTRACTOR.
- PERMANENT SOIL EROSION CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, OR ANY DISTURBED LAND AREA SHALL BE COMPLETED WITHIN 15 CALENDAR DAYS AFTER FINAL GRADING OR FINAL EARTH CHANGES HAVE BEEN COMPLETED. WHEN IT IS NOT POSSIBLE TO PERMANENTLY STABILIZE A DISTURBED AREA AFTER AN EARTH CHANGE HAS BEEN COMPLETED OR WHERE SIGNIFICANT EARTH CHANGE ACTIVITY EASES, TEMPORARY SOIL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED IMMEDIATELY. ALL TEMPORARY SOIL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE ESTABLISHED.ALL PERMANENT SOIL EROSION CONTROL MEASURES WILL BE IMPLEMENTED AND ESTABLISHED BEFORE A CERTIFICATE OF COMPLIANCE IS ISSUED. ALL DRAIN BANKS DISTURBED BY CONSTRUCTION SHALL BE RESTORED WITHIN FIVE CALENDAR DAYS AND SOD PEGGED IN PLACE.

DIVERSION RIDGE REQUIRED MERE GRADE EXCEEDS 2%

SECTION A-A

SPILWAY

L DIVERSION RIDGE

50′ (15 m) MIN.

ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.

USED TO TRAP SEDIMENT.

1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION

2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO

3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN

TEMPORARY GRAVEL CONSTRUCTION

ENTRANCE/EXIT

NOT TO SCALE

AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE TOP DRESSING. REPAIR AND/OR CLEANOUT OF ANY MEASURES

ROADWAY

2% OR GREATER

— FILTER FABRIC

NOTE: USE SANDBAGS,

STRAW BALES OR OTHER

APPROVED METHODS TO

CHANNELIZE RUNOFF TO

BASIN AS REQUIRED

2''-3'' (50-75 mm) COURSE AGGREGATE

MIN. 6" (150 mm)

THICK

- 10. PARTICULAR CARE SHOULD BE TAKEN WHEN WORKING ALONG THE PERIMETER OF THE SITE, IN NO EVENT SHALL WORK AREA EXTEND BEYOND THE LIMITS INDICATED ON THE PLANS.
- 1. SHOULD IT BE NECESSARY FOR THE CONTRACTOR TO DEWATER THE GROUND IN THE COURSE OF CONSTRUCTING THE PROPOSED UTILITY, THE CONTRACTOR SHAL CONSTRUCT A TEMPORARY SOIL EROSION CONTROL DEVICE IN A MANNER THAT WILL FILTER ALL DISCHARGED WATER FROM THE DEWATERING OPERATION. IN NO INSTANCE SHALL THE DEWATERING DISCHARGE BE PERMITTED TO FLOW UNFILTERED FROM THE CONSTRUCTION SITE.
- 12. THE CONTRACTOR SHALL CONTROL THE DUST ON THE SITE DURING THE LIFE OF THE CONTRACT. IN ACCORDANCE WITH THE SPECIFICATIONS AND THE REQUIREMENTS OF THE COMMUNITY THIS DUST CONTROL SHALL BE ACCOMPLISHED BY THE APPLICATION OF A POSITIVE DUST PICK-UP METHOD WITH WATER ON HARD SURFACES, SUCH DUST CONTROL MATERIALS SHALL BE APPLIED AS OFTEN AS IS NECESSARY IN THE OPINION OF THE COMMUNITY TO CONTROL THE DUST.
- 13. SHOULD THE SOIL EROSION CONTROL REQUIREMENTS BE NEGLECTED OR NOT ADEQUATELY FOLLOWED. THE COMMUNITY MAY REQUIRE THE CONTRACTOR TO CEASE CONSTRUCTION OPERATIONS AND TO APPLY HIS ENTIRE FORCE TO MEET THE REQUIREMENTS BEFORE PROCEEDING FURTHER WITH THE PROJECT.
- 4. SOIL EROSION AND SEDIMENTATION CONTROL SHALL BE IN ACCORDANCE WITH PART 91 SOIL EROSION AND SEMIMENTATION CONTROL(SESC), OF THE NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION ACT, 1994 PA 451, AS AMENDED (NREPA).
- 15. AS SOON AS POSSIBLE, COMPLETE FINAL GRADING AND PLACING OF PERMANENT SOIL EROSION CONTROL DEVICES. AFTER ESTABLISHMENT OF PERMANENT VEGETATION, REMOVE ALL TEMPORARY SOIL EROSION CONTROL MEASURES.
- 16 SOIL EROSION AND SEDIMENTATION CONTROL IS UNDER THE JURISDICTION OF THE CITY OF PLYMOUTH.

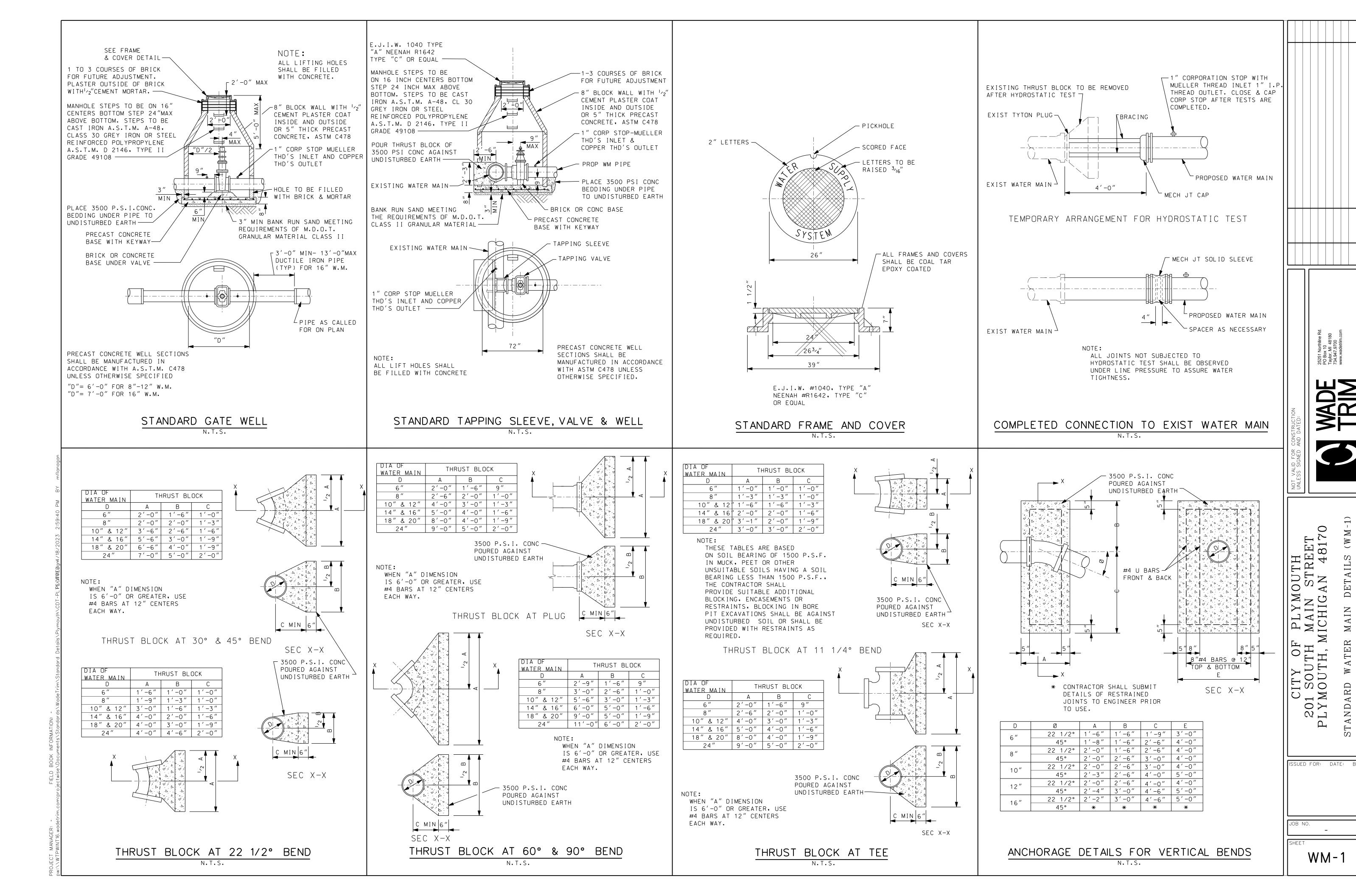
SEQUENCE OF CONSTRUCTION - SESC

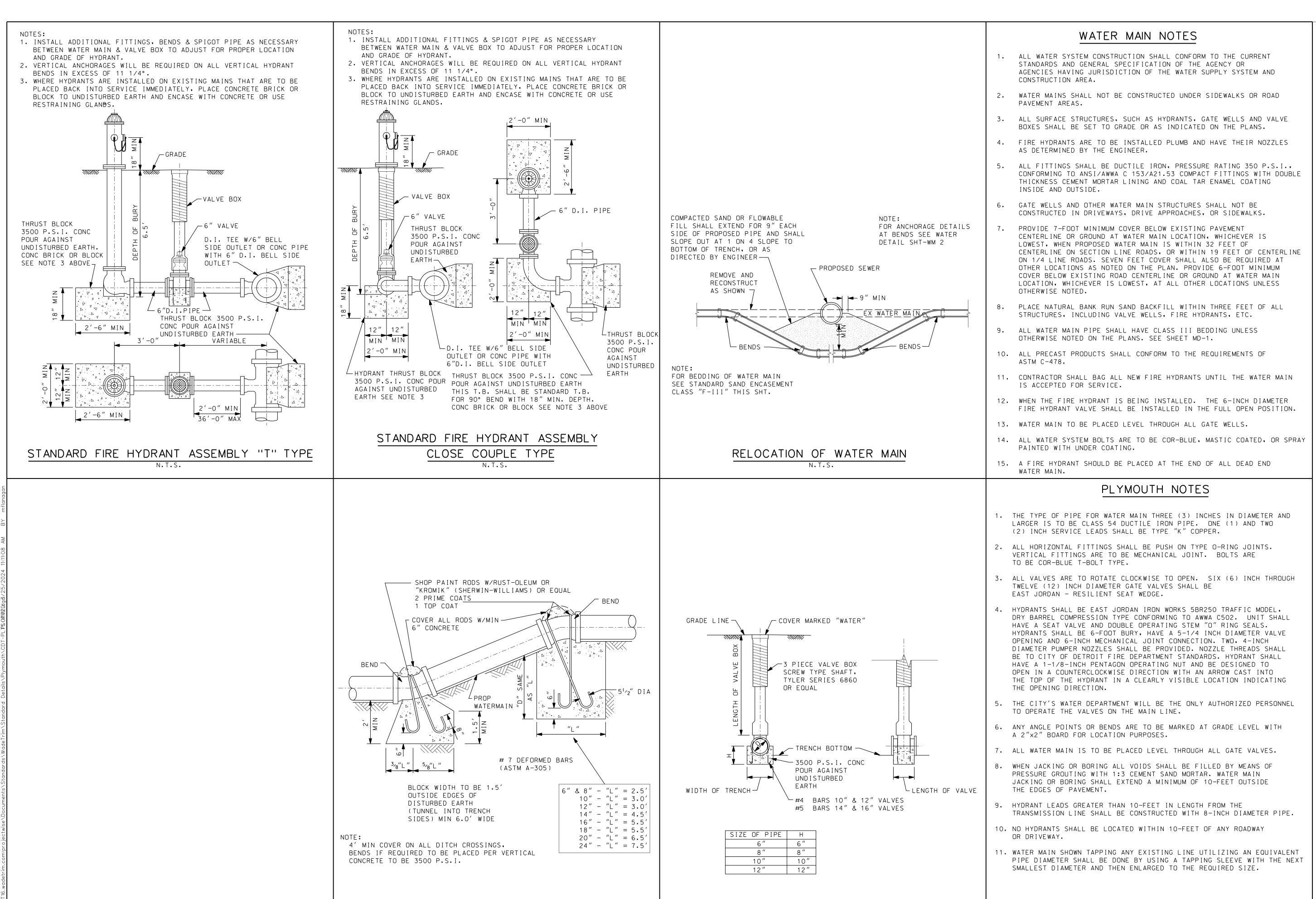
- 1. INSTALL ALL TEMPORARY SOIL EROSION CONTROL MEASURES PRIOR TO DISTURBING ANY EARTH ON THE SITE.
- 2. INSTALL TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT DRIVE PRIOR TO DISTURBING ANY EARTH ON SITE. ALL TRUCKS LEAVING THE CONSTRUCTION SITE SHALL PASS THROUGH A TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT DRIVE TO REMOVE DIRT AND SEDIMENT. ANY DIRT AND ACCUMULATED SEDIMENT ON ROADS AND STREETS IN THE VICINITY OF THE PROJEVT SHALL BE SWEPT CLEAN AT LEAST TWICE DAILY WITH A VACUUM TYPE PICKUP BROOM.
- 3. STABILIZE SLOPES STEEPER THAN 1 ON 4. CHANNELS AND SWALES WITHIN 7 DAYS OF EARTH DISTURBANCE. INSTALL PERMANENT STABILIZATION MEASURES WITHIN 5 DAYS OF FINAL GRADING.
- 4. DURING STORM SEWER INSTALLATION, ALL NEWLY CONSTRUCTED DRAINAGE STRUCTURES SHALL BE PROTECTED WITH A DRAINAGE STRUCTURE FILTER. THIS WORK WILL BE INCLUDED IN THE DRAINAGE COST.
- 5. INSTALL TOPSOIL, SEED AND MULCH / TOPSOIL AND SOD HYDROSEED ON DISTURBED RIGHT-OF-WAY WITHIN 5 DAYS OF COMPLETING UTILITY INSTALLATION.
- 6. PLACE RIPRAP WITHIN 24 HOURS OF PLACING CULVERTS, HEADWALLS OR OTHER DRAINAGE INLETS/OUTLETS.
- 7. CLEAN ALL ACCUMULATED SEDIMENT FROM CATCH BASINS, SEWERS AND PAVEMENT AREAS AS REQUIRED FOLLOWING COMPLETION OF CONSTRUCTION.
- 8. THE EXACT SCHEDULE OF SOIL EROSION AND SEDIMENTATION CONTROL EVENTS (WITH DAYS AND/OR DATES OF THE VARIOUS ACTIVITIES) SHALL BE SUBMITTED TO (WAYNE COUNTY DEPARTMENT OF ENVIRONMENT, AND LAND RESOURCE MANAGEMENT DIVISION) BY THE CONTRACTOR, FOR REVIEW AND APPROVAL, PRIOR TO OBTAINING A PERMIT.

O EE. 81 OUTH STREI AN 48 SOIL EROSION CONTROL DETA A LYM(AIN CHIG/ OF TH H, N STANDARI SEDIMENTATION N AND SEDIMENTATION 0S() \mathbb{Z} 0 \sim \Box

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SE-1





VALVE BLOCK AND BOX DETAIL

VERTICAL REACTION BLOCKING

25251 Northline Rd.
PO Box 10
Taylor, MI 48180
734.947.9700
www.wadetrim.com

NOT VALID FOR CONSTRUCTION UNLESS SIGNED AND DATED:

WADE

THE STATEMENT OF THE STATEMENT O

F PLYMOUTH
H MAIN STREET
MICHIGAN 48170
ER MAIN DETAILS (WM-2)

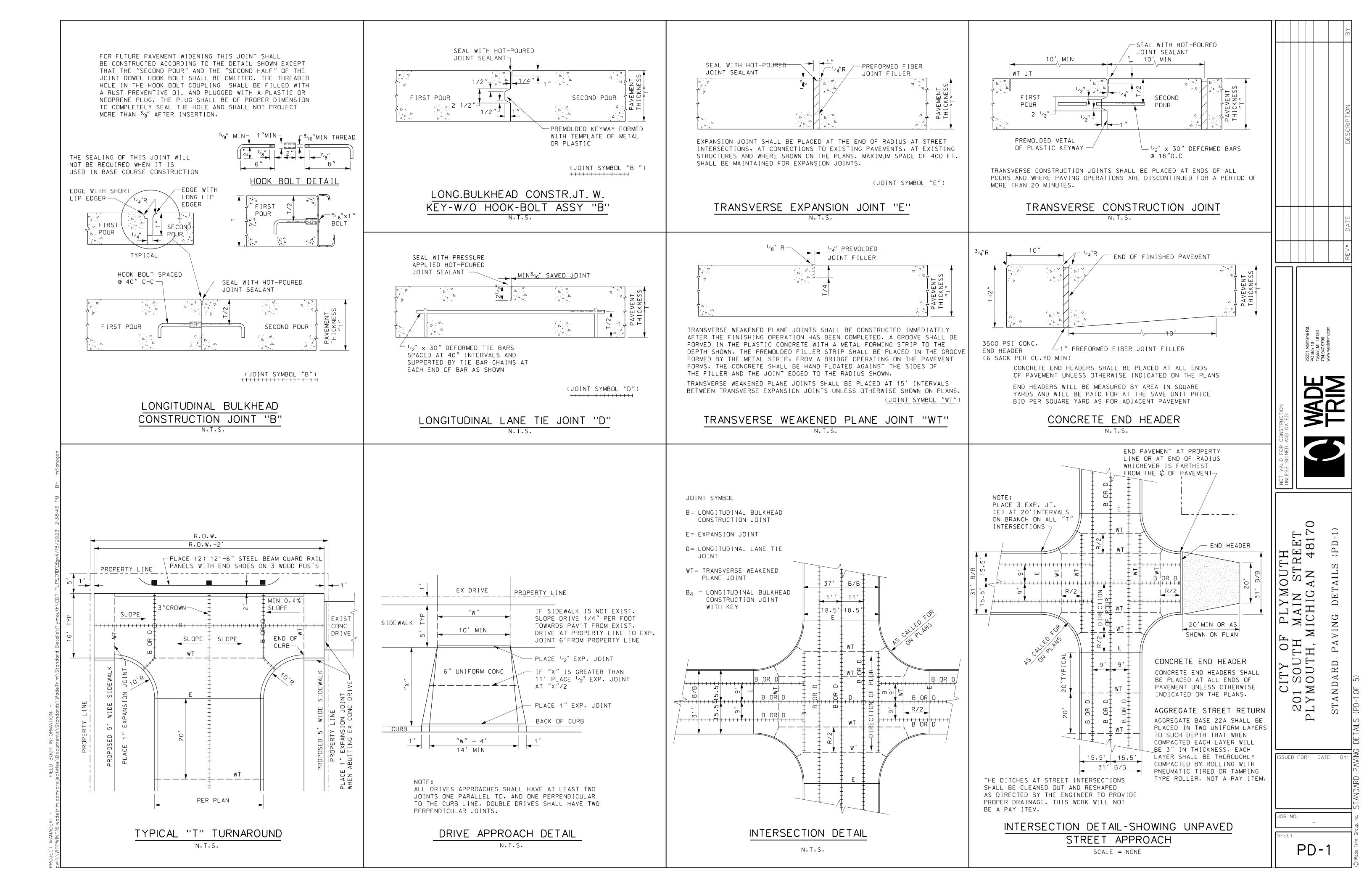
CITY OF PLYMOU 201 SOUTH MAIN ST PLYMOUTH, MICHIGAN STANDARD WATER MAIN DETA

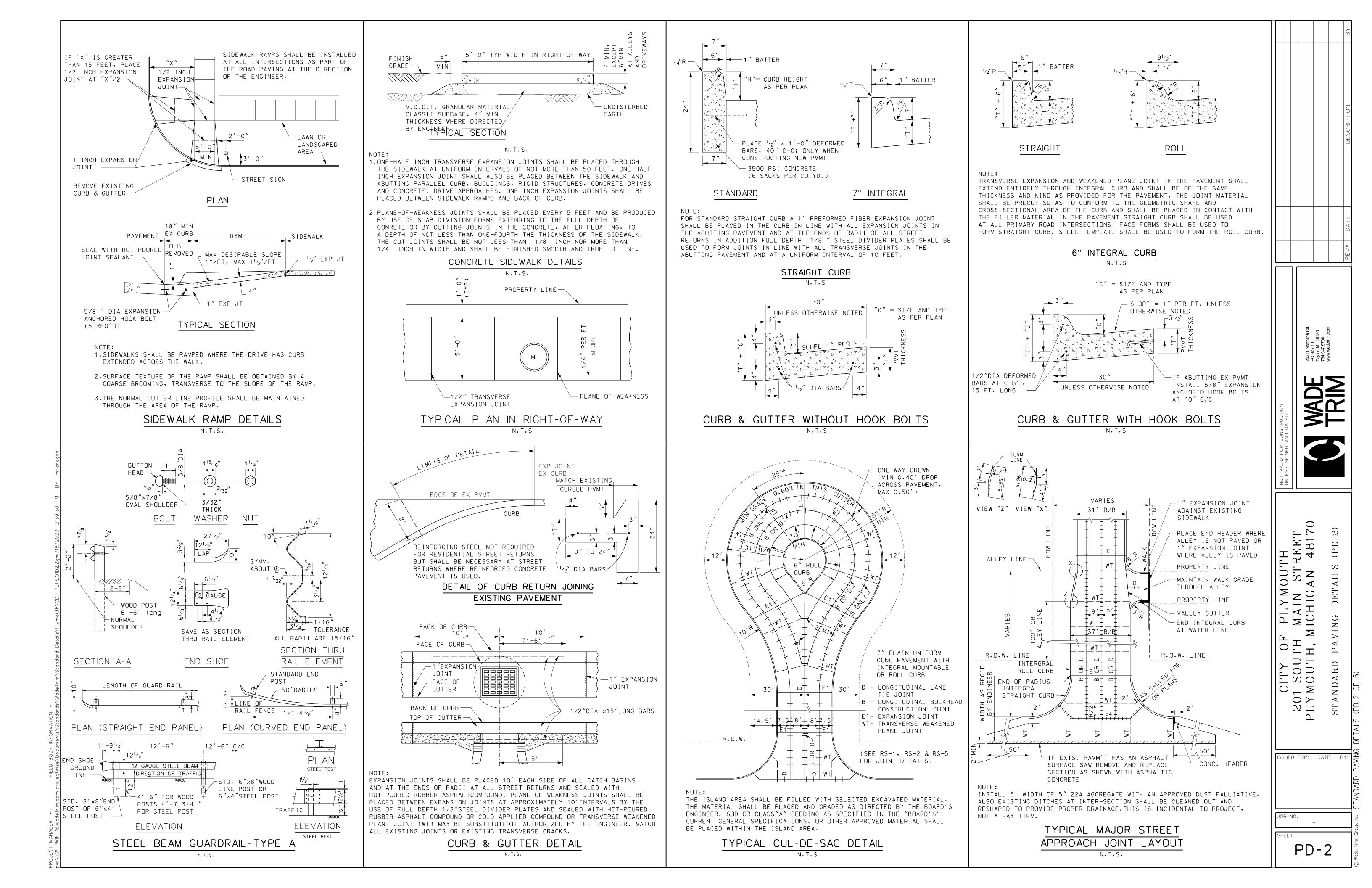
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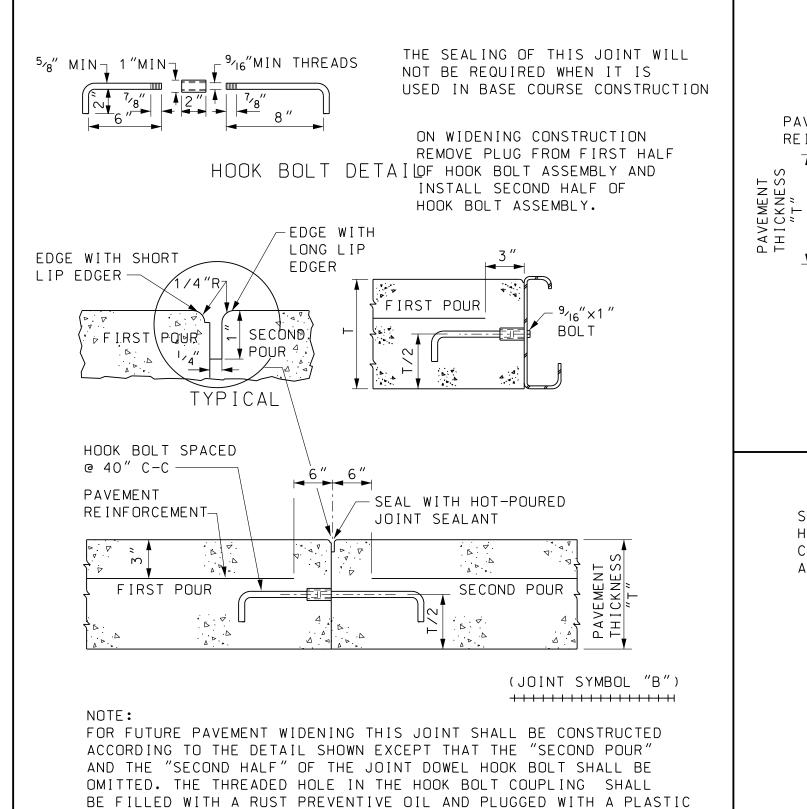
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SHEET

WM-2





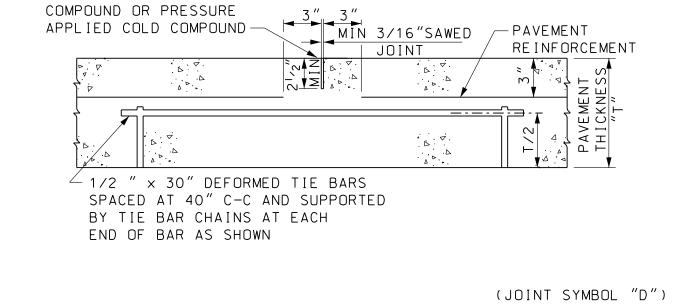


OR NEOPRENE PLUG. THE PLUG SHALL BE OF PROPER DIMENSION TO

LONGITUDINAL BULKHEAD CONSTRUCTION JOINT "B'

COMPLETELY SEAL THE HOLE AND SHALL NOT PROJECT MORE THAN

3/8 " AFTER INSERTION.



LONGITUDINAL LANE TIE JOINT "D"

SEAL WITH HOT-POURED

| | | = 1

CUT E

DETAIL

SAWED GROOVE

FOR NEOPRENE JOINT SEALER

+++++++++++

REL

JOINT SEALANT

→||**√**2"

- DOWEL BARS (SEE

SAWED GROOVE WITH NEOPRENE JOINT SEALER - SYMBOL (CI)

DETAIL THIS SHEET)

TRANSVERSE CONTRACTION JOINT "C"

PAVEMENT

REINFORCEMENT

SEAL WITH PRESSURE APPLIED

HOT RUBBER-ASPHALT IC TYPE



(AS DIRECTED BY THE ENGINEER) DEPENDENT ON THICKNESS OF

DEPTH OF SAWED JOINT CUT TO VARY BETWEEN 1 1/2 " TO 2 1/2 "

³/₁₆" SAWED

CONCRETE BASE PAVEMENT WITH

ASPHALTIC CONCRETE SURFACING

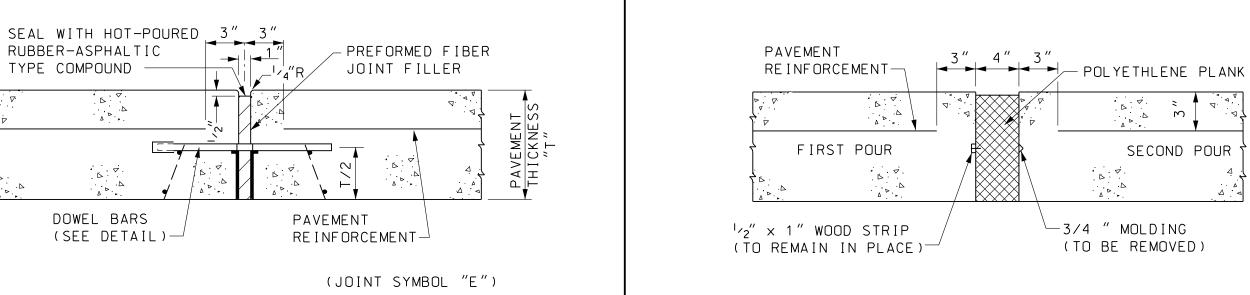
- PAVEMENT

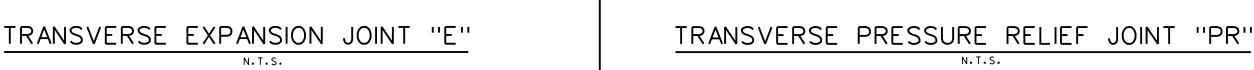
REINFORCEMENT

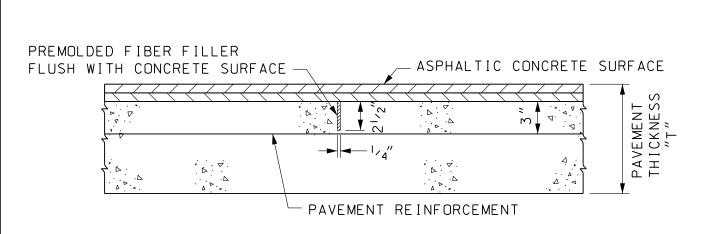
PAVEMENT THICKNESS

SEAL WITH COLD

APPLIED COMPOUND







TRANSVERSE PLANE OF WEAKNESSB JOINT FOR CONCRETE BASE COURSE "WTR" N.T.S.

SEAL WITH HOT-POURED RUBBER-ASPHALTIC TYPE COMPOUND-"116" / 12" x 212" POLYSTYRENE OR OTHER PAVEMENT REINFORCEMENT -APPROVED TEMPORARY FILLER PAVEMENT THICKNESS FIRST POUR SECOND POUR -DOWEL BARS (SEE DETAIL) AT 12"C/C AND A MINIMUM OF 6" FROM EDGE OF PAVEMENT AND AT RIGHT ANGLES TO PAVEMENT JOINT.

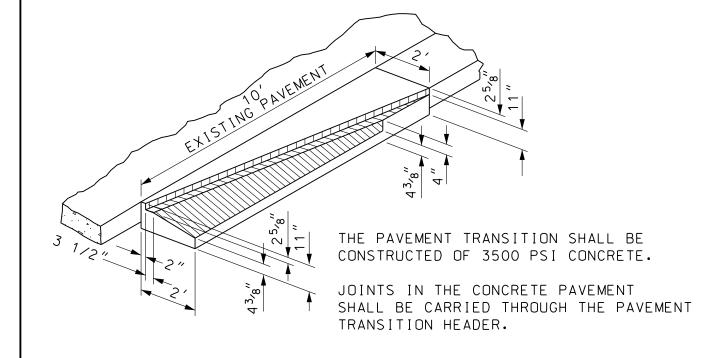
TRANSVERSE END OF POUR CONSTRUCTION JOINT

PRIOR TO PLACING CONCRETE IN THE FIRST POUR, THE SLEEVE DOWELS AND CONTRACTION BASKET ASSEMBLY WITH BULKHEAD SHALL BE FIRMLY SECURED TO THE SUBGRADE, TRUE TO LINE AND POSITION.

THE BULKHEAD SHALL BE SUFFICIENTLY RIGID TO PREVENT DEFORMATION WHEN CONCRETE IS PLACED AND SHALL CONFORM TO THE CROWN OF THE FINISHED PAVEMENT. THE DAY AFTER PLACING THE FIRST POUR, THE HALF OF THE BASKET AND DOWELS OUTSIDE THE FIRST POUR SHALL BE CAREFULLY REMOVED TO AVOID RUPTURING THE FRESH CONCRETE. THE OPEN END OF THE SLEEVE SHALL BE PLUGGED IN THE SAME MANNER AS REQUIRED FOR HOOK BOLTS.

PRIOR TO PLACING CONCRETE IN SECOND POUR, THE DOWELS TO THE SECOND POUR SHALL BE SCREWED INTO THE SLEEVES AND COATED ONLY IF THE JOINT IS AT AN EXISTING OR PROPOSED CONTRACTION OR EXPANSION JOINT LOCATION AFTER THE SECOND POUR THE JOINT SHALL BE FINISHED ACCORDING TO CURRENT SPECIFICATIONS FOR CONTRACTION JOINTS.

THIS DETAIL SHALL BE USED FOR ALL TRANSVERSE CONSTRUCTION JOINTS IN CONJUNCTION WITH PAVEMENT GAPPING WHEN IT IS ANTICIPATED THAT THE SECOND POUR WILL BE PLACED MORE THAN THREE (3) DAYS AFTER THE FIRST POUR, WHEN THE CONSTRUCTION (SECOND POUR) OF THE PAVEMENT WILL CONTINUE WITHIN THREE (3) DAYS, THE TWO PIECE DOWELS WILL NOT BE REQUIRED AND THE JOINT WILL BE FORMED AS A STANDARD CONSTRUCTION JOINT.



CONCRETE PAVEMENT TRANSITION HEADER

N.T.S. BASKET ASSEMBLY NOTES: THE DOWEL BAR SPACING SHALL BE 12" AS SHOWN AND EXCESS SPACE EQUALIZED AT EACH SIDE OF PAVEMENT SLAB, WHERE LANE WIDTHS OTHER THAN INDICATED OCCUR.

ALL WIRES SHOWN ARE MINIMUM SIZE AND SHALL CONFORM TO THE CURRENT SPECIFICATIONS FOR COLD-DRAWN STEEL WIRE FOR CONCRETE REINFORCEMENT, A.S.T.M. DESIGNATION A-82.

THE SIZE OF WIRE SHOWN SHALL CONFORM TO THE UNITES STATES STEEL WIRE GAUGE STANDARD.

METAL EXPANSION CAPS SHALL BE CLOSE FITTING AND SHALL CONTAIN A SUITABLE STOP TO HOLD THE END OF THE CAP FROM THE END OF THE BAR DURING THE PLACEMENT OF THE CONCRETE SO THAT A SPACE OF ONE INCH IS PROVIDED FOR SUBSEQUENT MOVEMENT OF THE BAR IN THE TUBE. OTHER CAPS MAY BE SUBSTITUTED WHEN APPROVED BY THE ENGINEER.

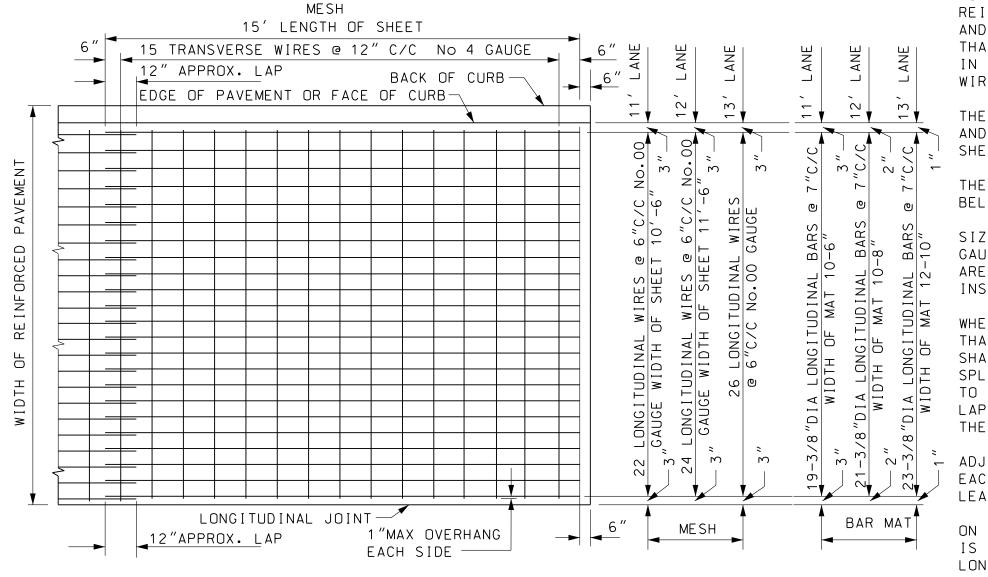
THE MAXIMUM PERMISSIBLE TOLERANCE ON DOWEL BAR ALIGNMENT SHALL BE 3/16 INCH IN THE LENGTH OF A DOWEL IN EACH PLANE, HORIZONTAL AND VERTICAL.

PERMISSIBLE VARIATION IN STRAIGHTNESS FOR DOWEL BARS SHALL BE A MAXIMUM OF 0.075 INCH IN THE LENGTH OF THE DOWEL.

TOLERANCE ON DOWEL BAR LENGTH SHALL BE PLUS OR MINUS 1/4 INCH.

EACH ASSEMBLY SHALL BE HELD IN PLACE ON THE SUBGRADE BY SIX STAKES AS SHOWN.

DOWEL BARS SHALL BE 1 1/4 INCH DIAMETER FOR 8, 9 AND 10 INCH CONCRETE PAVEMENT EXCEPT THAT 1 INCH DIAMETER DOWEL BARS MAY BE SUBSTITUTED IN 8 INCH CONCRETE PAVEMENT.



MESH REINFORCEMENT SHALL CONFORM TO THE REQUIREMENTS OF THE CURRENT SPECIFICATIONS FOR WELDED STEEL WIRE FABRIC FOR CONCRETE REINFORCEMENT A.S.T.M. DESIGNATION A185, AND SHALL BE FABRICATED AS SHOWN, EXCEPT THAT A TOLERANCE OF ONE INCH IS PERMITTED IN THE LENGTH OF OVERHANG OF LONGITUDINAL WIRES.

THE PAVEMENT REINFORCEMENT SHALL BE SHIPPED AND DELIVERED TO THE WORK AREA IN FLAT SHEETS OR MATS.

THE REINFORCEMENT SHALL BE PLACED 3 INCHES BELOW SURFACE OF THE FINISHED PAVEMENT.

SIZE OF WIRES IS BASED ON U.S. STEEL WIRE GAUGE AND WEIGHTS FOR MESH REINFORCEMENT ARE ACCORDING TO THE WIRE REINFORCEMENT INSTITUTE TABLES.

WHERE THE WIDTH OF PAVEMENT SLAB VARIES FROM THAT SHOWN, THE REINFORCEMENT REQUIREMENTS SHALL BE THE SAME AS SHOWN HEREON, EXCEPT THAT SPLIT SHEETS OR MATS MAY BE USED TO CONFORM TO THE PARTICULAR PAVEMENT CONFIGURATION. SIDE LAPS SHALL NOT BE LESS THAN THE SPACING OF THE LONGITUDINAL WIRES OR BARS.

ADJACENT SHEETS OR MATS SHALL BE FASTENED TO EACH OTHER AND TO THE DOWEL BAR BASKETS IN AT LEAST TWO PLACES IN EACH PAVEMENT LANE.

ON WIDENING PROJECTS WHERE THE PAVEMENT SLAB IS LESS THAN 6 FEET IN WIDTH 1/2 " DIA LONGITUDINAL REINFORCING BARS MAY BE SUBSTITUTED FOR STANDARD REINFORCEMENT, PROVIDED THE BARS ARE SPACED NOT MORE THAN 12" CENTER TO CENTER, WITH THE FIRST BAR NOT MORE THAN 3" FROM EDGES OF THE WIDENED SLAB BARS SHALL BE LAPPED A MINIMUM OF 12".

MESH PAVEMENT REINFORCEMENT 11 FT, 12 FT, & 13 FT LANES

N.T.S.

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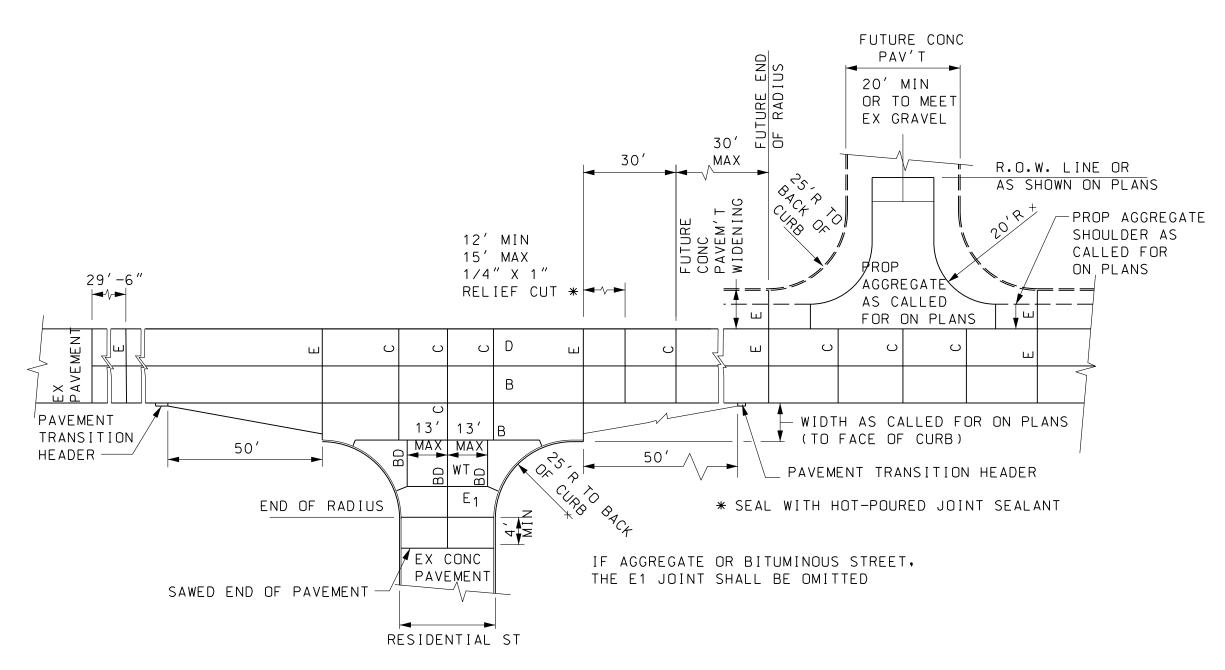
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TYPICAL CONCRETE REINFORCED PAVEMENT JOINT LAYOUT



TYPICAL REINFORCED CONCRETE PAVEMENT JOINT LAYOUT

UNLESS OTHERWISE SHOWN ON PLANS OR DIRECTED BY THE ENGINEER, JOINT LOCATION AND SPACING SHALL BE AS FOLLOWS:

LONGITUDINAL JOINTS

- B = LONGITUDINAL BULKHEAD CONSTRUCTION JOINTS SHALL BE SHOWN ON PLANS. HAND FINISHED POURS ON STREET RETURNS SHALL BE A MAXIMUM WIDTH OF 18" UNLESS OTHERWISE APPROVED BY THE ENGINEER.
 D = LONGITUDINAL LANE TIE JOINTS SHALL BE PLACED AS SHOWN ON PLANS.
- BD = OPTIONAL B OR D JOINT.

TRAVERSE JOINTS

- C = CONTRACTION JOINTS WITH BASKET ASSEMBLIES SHALL BE PLACED AT THE LOCATIONS SHOWN ON THE PLANS AND ELSEWHERE AT MAXIMUM INTERVALS OF 30-FEET. BETWEEN EXPANSION JOINTS MINIMUM DISTANCE BETWEEN ANY LOAD TRANSFER JOINTS SHALL BE 12'. IN ADDITION A 1/4"X1" RELIEF CUT SHALL BE MADE HALF WAY BETWEEN EACH CONTRACTION JOINT WITH BASKET ASSEMBLY. MAXIMUM SPACING FROM RELIEF CUT TO CONTRACTION JOINT WITH BASKET 15', MINIMUM 12'. RELIEF CUTS SHALL BE SEALED WITH HOT-POURED JOINT SEALANT.
- E = EXPANSION JOINTS WITH LOAD TRANSFER SHALL BE PLACED AT SPRING POINTS, AT LOCATIONS SHOWN ON THE PLANS AND AT LOCATIONS INDICATED AS FOLLOWS:
 - a.) WHERE NECESSARY TO RELIEVE HORIZONTAL PRESSURES AT SHARP VERTICAL CURVES, WHERE DIRECTED BY THE ENGINEER, b.) EXPANSION JOINTS SHALL BE ALSO PLACED AT PC AND PT OF HORIZONTAL CURVES WHERE THE DEGREE OF CURVATURE IS 2°30' OR MORE.
 - C.) DURING THE PERIOD FROM SEPT. 15 TO APRIL 15, EXPANSIONNTS SHALL BE SPACED AT MAXIMUM INTERVALS OF 315'.

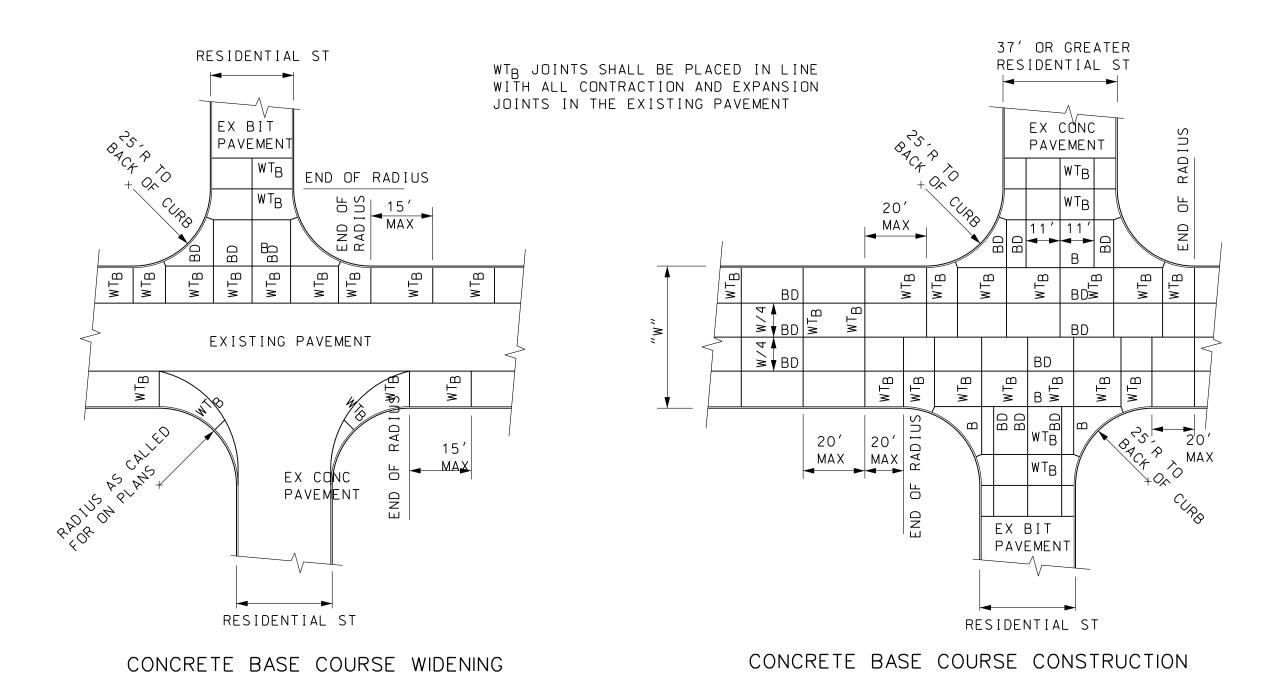
 IF ANY PORTION OF A MULTIPLE LANE PAVEMENT IS TO BE PLACED BETWEEN SEPT. 15 AND APRIL 15, EXPANSION

 JOINTS FOR ENTIRE WIDTH OF PAVEMENT SHALL BE SPACED AT

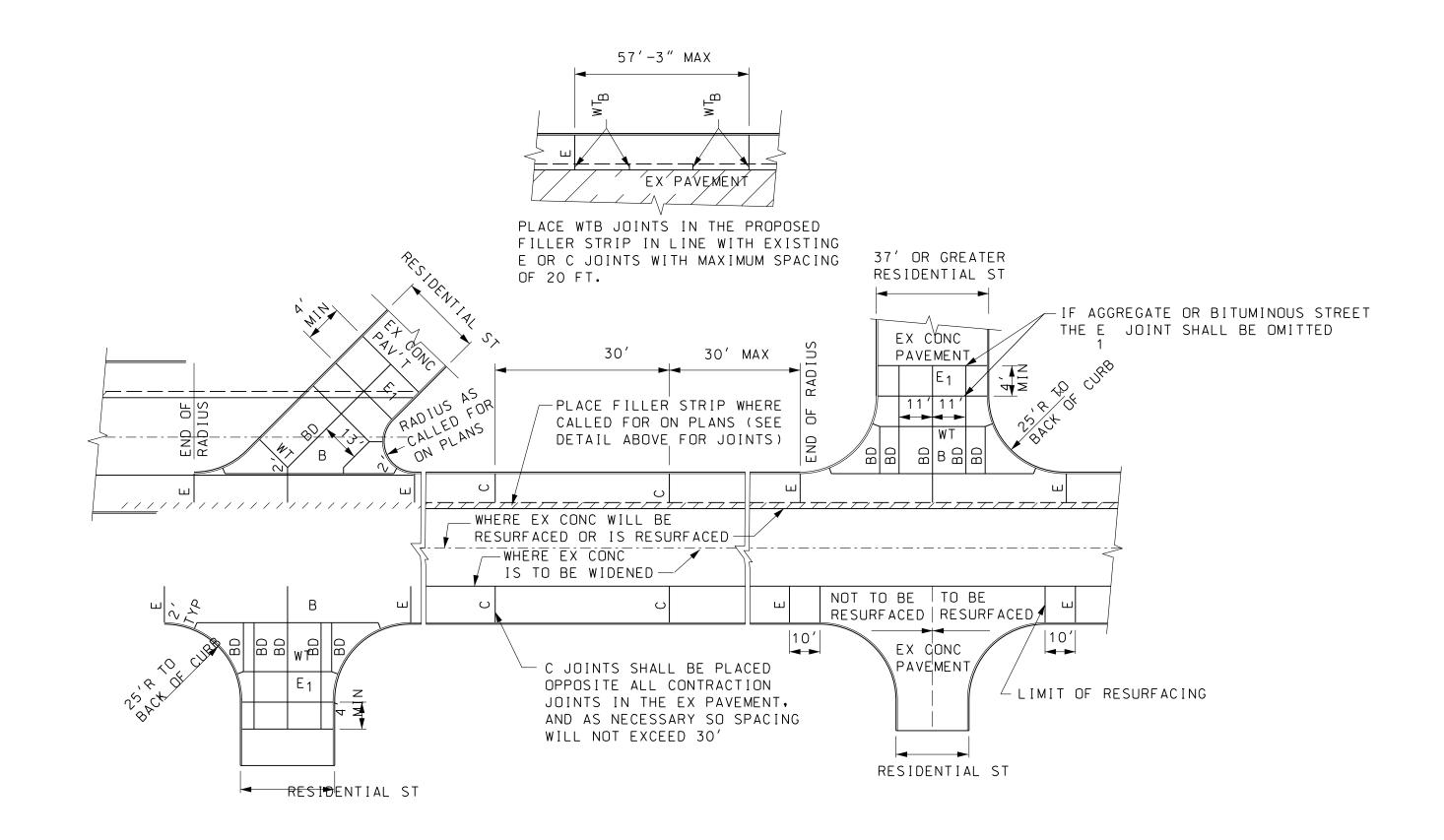
 MAXIMUM INTERVALS OF 315'.

WTB = PLANE OF WEAKNESS JOINTS SHALL BE PLACED IN CONCRETE BASE COURSE AT 20' MAXIMUM INTERVALS.

PR = PRESSURE RELIEF JOINTS SHALL BE PLACED AT LOCATIONS SHOWN ON PLANS.



TYPICAL REINFORCED CONCRETE BASE COURSE JOINT LAYOUT



TYPICAL CONCRETE PAVEMENT WIDENING JOINT LAYOUT

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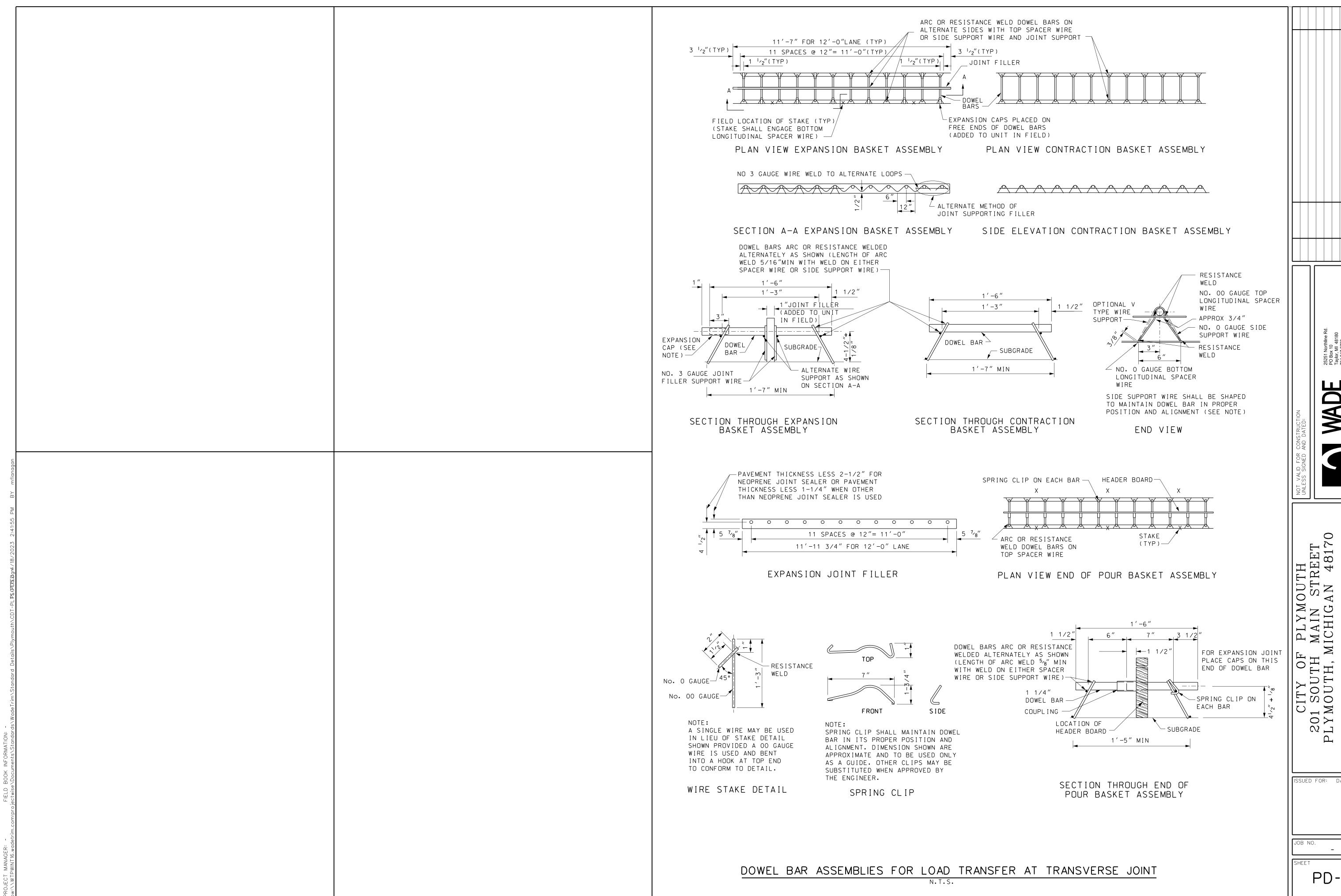
CITY OF PLYMOUTH
01 SOUTH MAIN STREET
YMOUTH, MICHIGAN 48170
ANDARD PAVING DETAILS (PD-4)

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