CITY OF ANN ARBOR
ENGINEERING

INGALLS KINGSLEY WATER MAIN

RFP No. 26-12, FILE No. 2025012

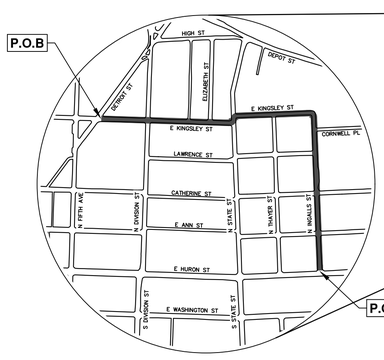
NOTES:

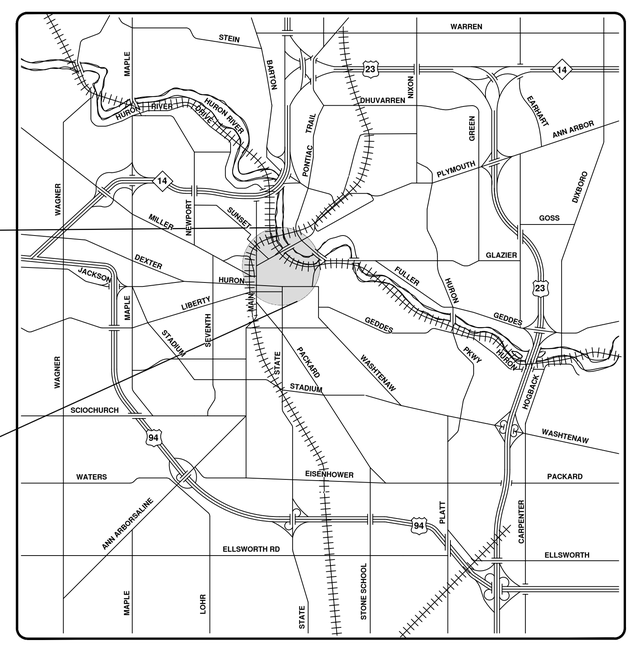
FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 174 OF 2013, THE CONTRACTOR SHALL CALL 811 OR 1-800-482-7171 A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS, PRIOR TO BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED. MEMBERS WILL THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

THE UNDERGROUND LOCATIONS SHOWN FOR NATURAL GAS, TELEPHONE, ELECTRICAL POWER, CABLE TV AND FIBER OPTIC LINES ARE APPROXIMATE. THE CITY OF ANN ARBOR ASSUMES NO RESPONSIBILITY FOR THEIR ACCURATE REPRESENTATION IN THIS DRAWING. MISS DIG MUST BE CONTACTED PRIOR TO CONSTRUCTION TO LOCATE THESE UTILITIES.

THE CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO THE CITY OF ANN ARBOR PUBLIC SERVICES AREA DESIGN STANDARDS AND CONSTRUCTION SPECIFICATIONS ("STANDARDS"). THE OMISSION OF ANY STANDARD DETAIL DOES NOT RELIEVE THE CONTRACTOR OF THEIR OBLIGATION TO CONSTRUCT ITEMS IN COMPLETE ACCORDANCE WITH THOSE STANDARDS.

NORTH





VICINITY MAP

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50	N Ingalls St - E Huron St to Sta 39+50
51	N Ingalls St - Sta 39+50 - E Kingsley St

PREPARED UNDER THE SUPERVISION OF

IGOR V. KOTLYAR, P.E. - MI LICENSE No. 6201043287
PROJECT ENGINEER

01 / 30 / 2026
DATE

STATE OF MICHIGAN
IGOR V. KOTLYAR
ENGINEER
No. 6201043287
LICENSED PROFESSIONAL ENGINEER

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

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	OUT FOR BID	01-30-26	A2D	IVK

CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
P.O. BOX 8647
ANN ARBOR, MI 48107-8647
734-794-6410
www.a2gov.org

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

PROJECT DESCRIPTION AND LIMITS

SCALE

DRAWING No. 2025012-1

SHEET No. 1 OF 51

© INGALLS KINGSLEY WATER MAIN; RFP No. 26-12; 2025012

R:\2025012 Ingalls Kingsley WM Rsurf\Plan Production\2025012Cov.dwg – _a2 standard bw.stb – Plot Date: 1/29/2026 10:03:27 AM

CONSTRUCTION NOTES:

1. Driveways and entrances to buildings, real property, and the like shall not be blocked except for short durations and only when approved by the Engineer. Vehicular and pedestrian access shall be maintained at all times. It shall be the Contractor's responsibility to coordinate all necessary driveway closures with the property owner(s) and resident(s) in the areas of construction.

2. The location and depth of all existing utilities and service leads are to be field verified by the Contractor prior to construction.

3. Location and depth of utilities as depicted on the plans is approximate and shown according to the best information available. It is the Contractor's responsibility to excavate ahead and adjust depth of conflict utilities accordingly. Any damage to utilities is the Contractor's responsibility to avoid and/or repair as necessary.

4. The Contractor is to take special care to protect the existing water main and be responsible for maintaining consistent water service.

5. During non-working hours no trench shall remain open; any open trench shall be properly secured with protective fencing. This work shall be included in the item of work "General Conditions".

6. Trenches for new water services shall be excavated to MIOSHA and City of Ann Arbor Public Works requirements.

7. City of Ann Arbor Public Works will install the corporation and copper service lead(s) to transfer the connection(s). If an existing water service is found to be failing or is not copper, the lead will be replaced to the curb box by Public Works.

8. For the installation of corporations, or any other related activities, the Contractor shall not receive additional compensation for delays due to the scheduling of or coordination with the City of Ann Arbor Public Works.

9. The Contractor shall backfill trenches in accordance with Trench Detail specified on plans. This work shall be included in the item of work "Excavate and Backfill for Water Service Tap and Lead". All concrete removals and replacements required for this work will be paid for separately.

10. Water main fittings, other than those specifically listed as separate pay items, which are required to complete the work, such as blow-off assemblies, concrete thrust blocks, solid sleeves and mechanical plugs, shall not be paid for separately, but shall be included in the pipe pay items.

11. "No Parking" signs shall be installed by the Contractor at locations as approved or directed by the Engineer. All signs shall be installed in accordance with the detailed specifications.

12. Postal delivery and refuse pickup service shall be maintained at all times by the Contractor.

13. All fittings, hydrants, valves and castings removed during construction are the property of the City of Ann Arbor. The Contractor within 48 hours shall deliver to City of Ann Arbor Public Works Facility at the W.R. Wheeler Service Center located at 4251 Stone School Road.

14. Where street curbs are undermined due to construction activities, they shall be removed and replaced as directed by the Engineer.

15. The Contractor shall be responsible for the continuous maintenance of the temporary road surface and soil erosion control measures within the construction area until the full completion of the project. This work shall be included in the item of work "General Conditions".

16. All curb, sidewalk, driveway approach removals shall be approved by Engineer before the work is done.

17. The location of material stock piles and on-site staging areas to be approved by the Engineer.

18. All structures shall receive new castings as directed by the Engineer, as specified on the standard casting schedule. The existing castings are the property of the City of Ann Arbor. The Contractor shall deliver to City of Ann Arbor Public Works Facility at the W.R. Wheeler Service Center located at 4251 Stone School Road.

19. Existing street name, guide, and regulatory signs, and mailboxes which conflict with the proposed construction shall be removed prior to construction, stored in a manner which will prevent damage, and re-set in locations as directed by the Engineer.

INGALLS KINGSLEY WATER MAIN

BM #	ELEV	DESCRIPTION
1	829.551	SPIKE IN NORTH SIDE OF UTILITY POLE, SOUTH SIDE OF KINGSLEY, BETWEEN ZINGERMANNS & HSE #324
2	836.554	SPIKE IN NORTH SIDE OF UTILITY POLE, SW CORNER OF KINGSLEY & DIVISION
3	847.229	SPIKE IN NORTH SIDE OF UTILITY POLE, SOUTH SIDE OF KINGSLEY, BETWEEN HSE #426 & 502
4	846.728	NE FLANGE BOLT ON HYDRANT, NE CORNER OF KINGSLEY & ELIZABETH
5	842.268	SPIKE IN SOUTH SIDE OF UTILITY POLE, NE CORNER OF KINGSLEY & STATE
6	858.041	SPIKE IN SOUTH SIDE OF UTILITY POLE, NORTH SIDE OF KINGSLEY @ THAYER
7	868.988	NORTH FLANGE BOLT ON HYDRANT, NORTH SIDE OF KINGSLEY @ INGALLS
8	874.934	SPIKE IN EAST SIDE OF UTILITY POLE, SW CORNER OF INGALLS & LAWRENCE
9	876.416	SPIKE IN EAST SIDE OF UTILITY POLE, NW CORNER OF INGALLS & CATHERINE
10	876.611	SPIKE IN WEST SIDE OF UTILITY POLE, NE CORNER OF INGALLS & ANN
11	878.864	WESTERLY FLANGE BOLT ON HYDRANT AT NW CORNER OF HURON & INGALLS

PERMITS REQUIRED TO BE OBTAINED BY THE CONTRACTOR PRIOR TO THE BEGINNING OF CONSTRUCTION.

PERMIT	ISSUING AUTHORITY
LANE CLOSURE PERMIT*	CITY OF ANN ARBOR ENGINEERING
"NO PARKING" SIGNS PERMIT*	CITY OF ANN ARBOR ENGINEERING
GRADING/SOIL EROSION & SEDIMENTATION CONTROL PERMIT*	CITY OF ANN ARBOR CUSTOMER SERVICE
RIGHT-OF-WAY PERMIT*	CITY OF ANN ARBOR CUSTOMER SERVICE
* NO COST TO CONTRACTOR	

PERMITS REQUIRED TO BE OBTAINED BY THE CITY OF ANN ARBOR PRIOR TO THE BEGINNING OF CONSTRUCTION.

PERMIT	ISSUING AUTHORITY
WATER MAIN CONSTRUCTION PERMIT	MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY (EGLE)
SANITARY SEWER CONSTRUCTION PERMIT	MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY (EGLE)

CONTACT INFORMATION

PUBLIC UTILITIES	OWNER	CONTACT
WATER SANITARY STORM FORESTRY	CITY OF ANN ARBOR PUBLIC WORKS W.R. WHEELER SERVICE CENTER 4251 STONE SCHOOL ROAD ANN ARBOR, MI 48108	(734) 794-6350
SIGNS SIGNALS STREET LIGHTS		MARK MORENO (734) 794-6361
FIBER OPTIC	CITY OF ANN ARBOR INFORMATION TECHNOLOGY LARCOM CITY HALL 301 E. HURON STREET ANN ARBOR, MI 48107	(734) 794-6550
PRIVATE UTILITIES	**OWNER**	**CONTACT**
GAS	DTE ENERGY 3150 E. MICHIGAN AVE, YPSILANTI TOWNSHIP, MI 48198	ADAM EGELER 734 929-8042 ADAM.EGELER@DTEENERGY.COM
ELECTRIC	DTE ENERGY WESTERN WAYNE SERVICE CENTER 8001 HAGGERTY ROAD BELLEVILLE, MI 48111	ANTHONY IGNASIAK (734) 397-4447
CABLE	COMCAST 27800 FRANKLIN ROAD SOUTHFIELD, MI 48034	STEPHEN BECK (248) 972-7511
PHONE	AT&T 550 S. MAPLE ROAD ANN ARBOR, MI 48103	CHRIS SHOUP (734) 263-7385 CS6558@ATT.COM
FIBER OPTIC	MCI/VERIZON 4401 STECKER STREET DEARBORN, MICHIGAN 48126	MARLON REDD (313) 588-0849 MARLON.REDD@VERIZON.COM
FIBER OPTIC	WINDSTREAM 1295 S LINDEN ROAD, SUITE B FLINT, MI 48532	DAVID BEGGS (810) 397-8956 DAVID.BEGGS@WINDSTREAM.COM
FIBER OPTIC	ADVANCED COMMUNICATIONS & DATA 1800 NORTH GRAND RIVER AVE LANSING, MI 48906	OSP@ACD.NET
STREET LIGHTING	DTE ENERGY 8001 HAGGERTY ROAD BELLEVILLE, MI 48111	LANCE ALLEY (734) 397-4188

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ANN ARBOR, MI 48107-8647
(734) 794-6410
www.a2gov.org

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

INGALLS KINGSLEY WATER MAIN

STANDARD NOTES

SCALE : NTS

DRAWING No. 2025012-2

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EXISTING LEGEND

EX = EXISTING

- FIRE HYDRANT
- GATE VALVE IN BOX
- GATE VALVE IN WELL
- STOP BOX
- WATER VAULT
- WELL
- CATCH BASIN (SQ)
- CATCH BASIN (RD)
- STORM MANHOLE
- NON-CURB CATCH BASIN (SQ)
- END SECTION
- SANITARY MANHOLE
- CLEAN-OUT
- POST
- PEDESTRIAN SIGNAL
- SIGN
- HAND HOLE
- ORNAMENTAL LIGHT
- FLOOD LIGHT
- UNKNOWN MANHOLE
- TELEPHONE MANHOLE
- TELEPHONE RISER
- GAS VALVE
- GAS VENT
- GAS BOX
- ELECTRICAL RISER
- TRANSFORMER
- UTILITY POLE
- LAMP POLE
- GUY ANCHOR
- GUY POLE
- MONITORING WELL
- MAILBOX
- SOIL BORING
- TRAVERSE POINT
- BENCH MARK
- IRON PIPE
- MON BOX

- WATER MAIN
- WATER MAIN ABANDONED
- STORM SEWER
- STORM SEWER ABANDONED
- SANITARY SEWER
- SANITARY SEWER ABANDONED
- GAS MAIN
- GAS MAIN (DEAD)
- ELECTRICAL OVER HEAD
- ELECTRICAL UNDER GROUND
- ELECTRICAL DUCT BANK
- TELEPHONE OVER HEAD
- TELEPHONE UNDER GROUND
- TELEPHONE DUCT BANK
- CABLE TV OVER HEAD
- CABLE TV UNDER GROUND
- FIBER OPTIC
- FIBER OPTIC DUCT BANK
- BOUNDARY
- BUILDING
- CENTERLINE OF DITCH
- CENTERLINE/CROWN OF ROAD
- CONTOUR MAJOR
- CONTOUR MINOR
- EDGE OF WATER
- FLOODPLAIN
- FENCE
- GRAVEL
- GUARDRAIL
- STONE WALL
- R.O.W.
- TREELINE
- WETLAND
- EDGE OF BRUSH
- HEDGE
- TREE (DECIDUOUS)
- TREE (CONIFEROUS)
- SHRUB (DECIDUOUS)
- STUMP
- TREE TO REMAIN & PROTECT (DECIDUOUS)
  CRITICAL ROOT ZONE (C.R.Z.) = DIAMETER BREAST HEIGHT (INCHES) X 10
- TREE TO REMAIN & PROTECT (CONIFEROUS)
  CRITICAL ROOT ZONE (C.R.Z.) = DIAMETER BREAST HEIGHT (INCHES) X 10

PROPOSED LEGEND

PROP = PROPOSED

- HYDRANT (PLAN)
- WATER GATE VALVE IN WELL
- WATER GATE VALVE IN BOX
- WATER STOP BOX
- WATER VAULT
- INLET
- HIGH CAPACITY INLET
- INLET JUNCTION CHAMBER
- ROUND CATCH BASIN
- STORM MANHOLE
- DRAIN ARROW
- FLARED END SECTION
- OVERFLOW
- SANITARY MANHOLE
- CLEAN-OUT
- BARREL
- SIGN
- PUSH BUTTON
- HAND HOLE

- WATER MAIN
- STORM SEWER
- SANITARY SEWER
- FIBER OPTIC
- ELECTRICAL
- CENTERLINE OF DITCH
- CENTERLINE OF ROAD
- FENCE
- GRAVEL
- SILT FENCE
- PROTECTIVE FENCE
- GUARDRAIL
- LOT/UNIT
- CURB
- TEMPORARY GRADING PERMIT
- CONTOUR MAJOR
- CONTOUR MINOR
- WATER EASMENT
- STORM EASEMENT
- SANITARY EASEMENT
- R.O.W.
- LIMITS OF CONSTRUCTION
- LIMIT OF GRADING
- STONE WALL

- DETECTABLE WARNING
- ASPHALT
- CONCRETE PAVEMENT
- CONCRETE RAMP
- CONCRETE SIDEWALK
- TURF RESTORATION
- TREE (DECIDUOUS)
- TREE (CONIFEROUS)
- TREE TO BE REMOVED (DECIDUOUS)
- TREE TO BE REMOVED (CONIFEROUS)
- STUMP TO BE REMOVED

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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

INGALLS KINGSLEY WATER MAIN

LEGEND

SCALE : NTS

DRAWING No. 2025012-3

SHEET No. 3 OF 51

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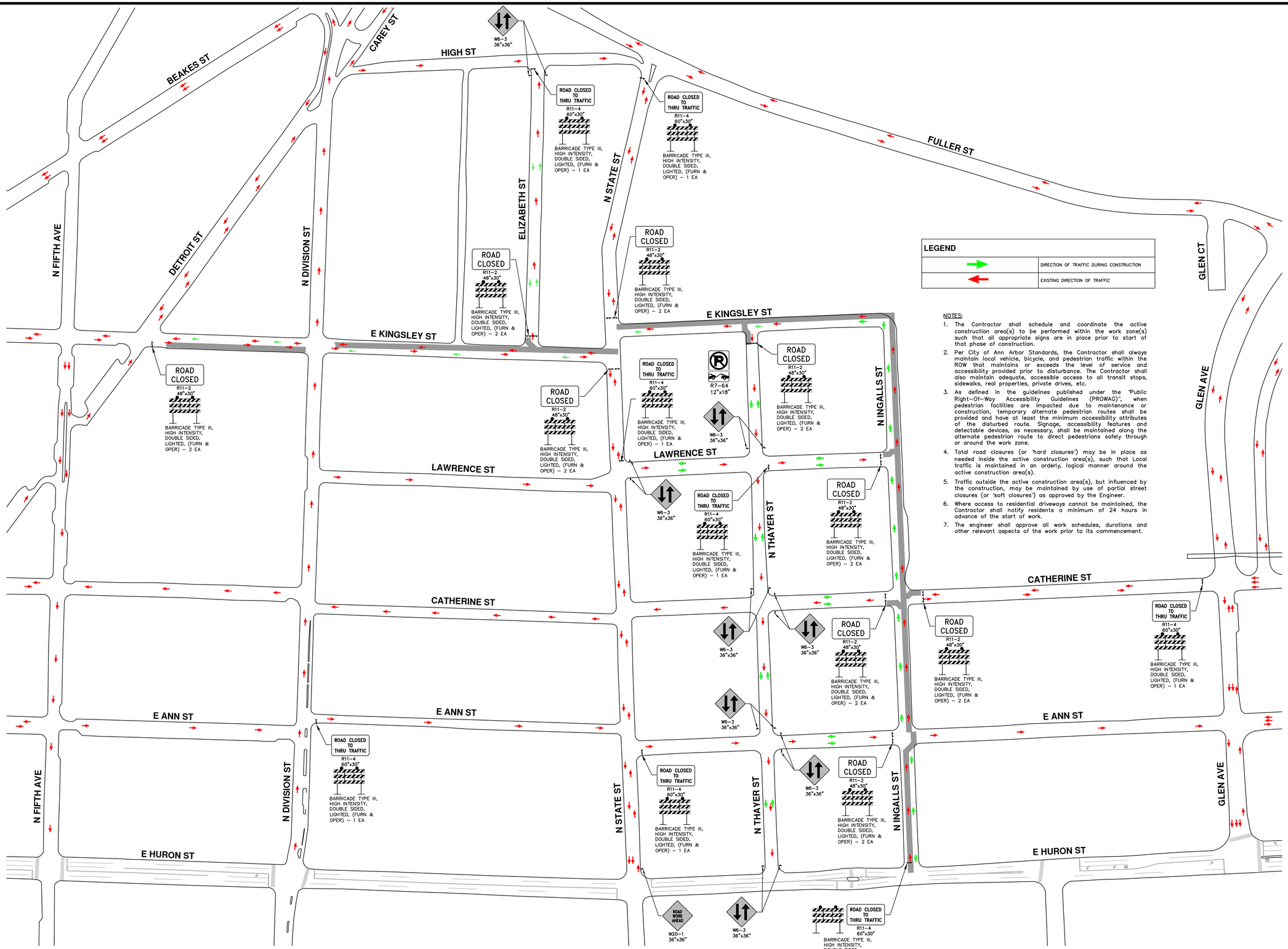

LEGEND	
→	DIRECTION OF TRAFFIC DURING CONSTRUCTION
←	EXISTING DIRECTION OF TRAFFIC

NOTES:

1. The Contractor shall schedule and coordinate the active construction area(s) to be performed within the work zone(s) such that all appropriate signs are in place prior to start of that phase of construction.
2. Per City of Ann Arbor Standards, the Contractor shall always maintain local vehicle, bicycle, and pedestrian traffic within the ROW that maintains or exceeds the level of service and accessibility provided prior to disturbance. The Contractor shall also maintain adequate, accessible access to all transit stops, sidewalks, real properties, private drives, etc.
3. As defined in the guidelines published under the "Public Right-Of-Way Accessibility Guidelines (PROWAG)", when pedestrian facilities are impacted due to maintenance or construction, temporary alternate pedestrian routes shall be provided and have at least the minimum accessibility attributes of the disturbed route. Signage, accessibility features and detectable devices, as necessary, shall be maintained along the alternate pedestrian route to direct pedestrians safely through or around the work zone.
4. Total road closures (or 'hard closures') may be in place as needed inside the active construction area(s), such that Local traffic is maintained in an orderly, logical manner around the active construction area(s).
5. Traffic outside the active construction area(s), but influenced by the construction, may be maintained by use of partial street closures (or 'soft closures') as approved by the Engineer.
6. Where access to residential driveways cannot be maintained, the Contractor shall notify residents a minimum of 24 hours in advance of the start of work.
7. The engineer shall approve all work schedules, durations and other relevant aspects of the work prior to its commencement.

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00	OUT FOR BID	01-30-26	A2D	IVK

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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

INGALLS KINGSLEY WATER MAIN

MAINTENANCE OF TRAFFIC - OVERALL

SCALE : NTS

DRAWING No. 2025012-4

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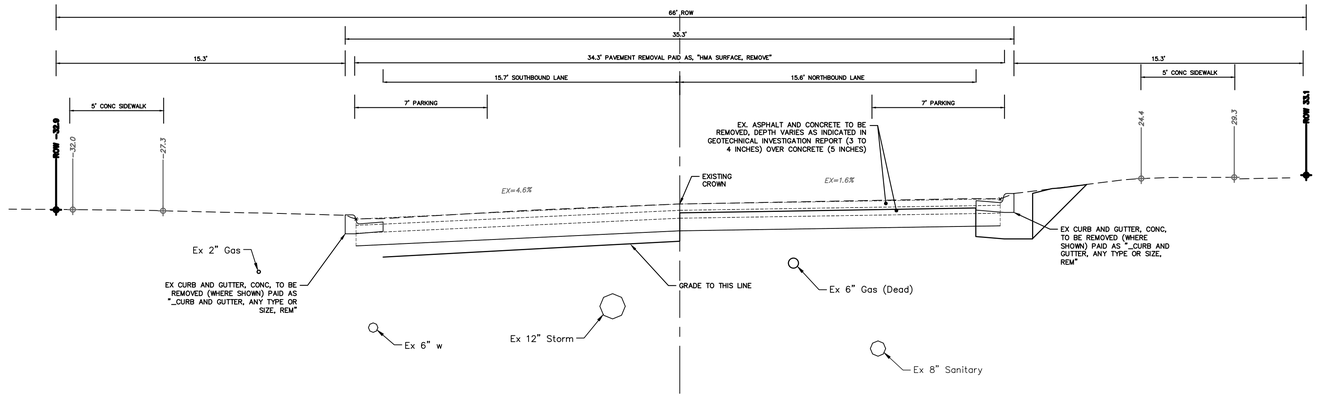
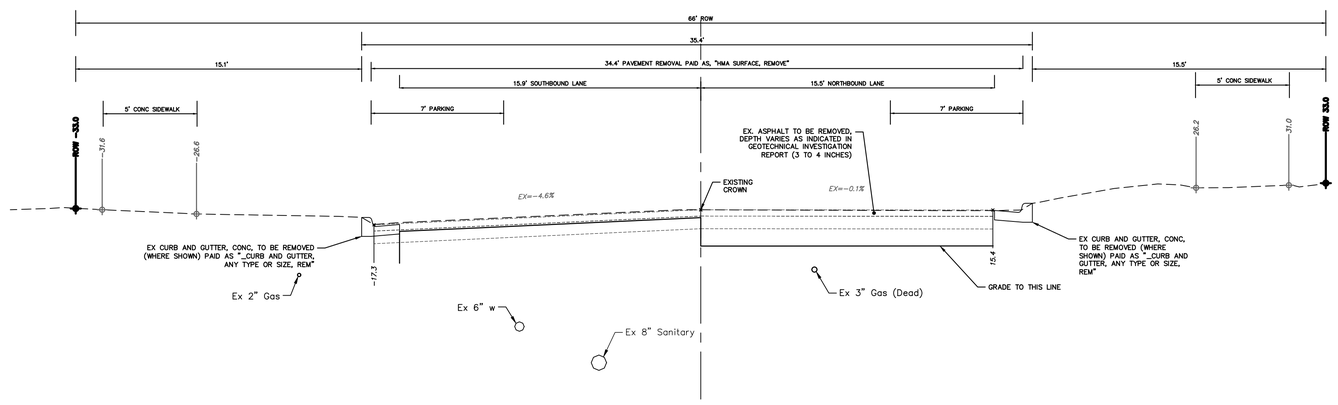


E KINGSLEY STREET
TYPICAL EXISTING SECTION

N DIVISION ST TO N STATE ST

N.T.S.



E KINGSLEY STREET
TYPICAL EXISTING SECTION

DETROIT ST TO N DIVISION ST

N.T.S.

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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

INGALLS KINGSLEY WATER MAIN

TYPCIAL SECTIONS

E KINGSLEY ST - EXISTING

SCALE PLAN: 1" = 4'

DRAWING No. 2025012-5

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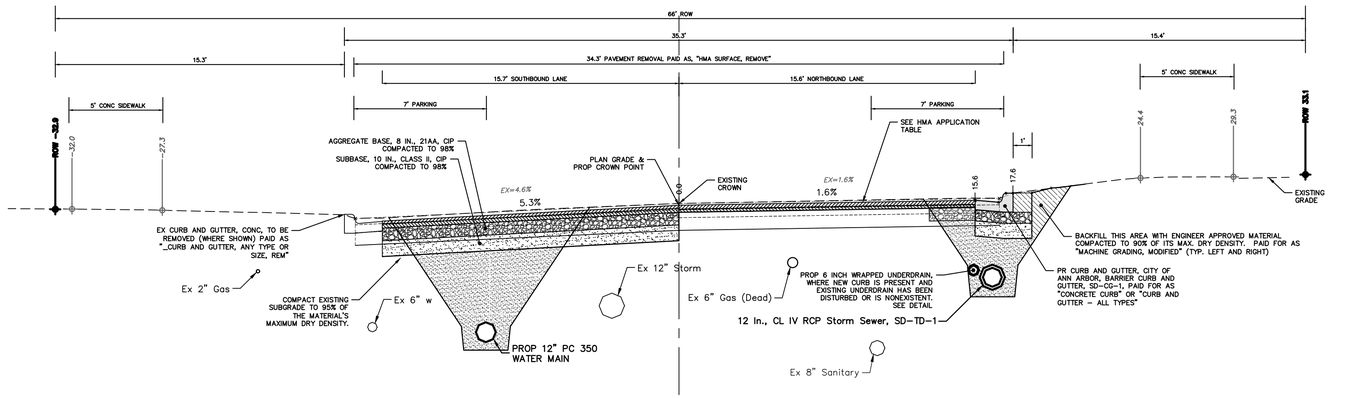


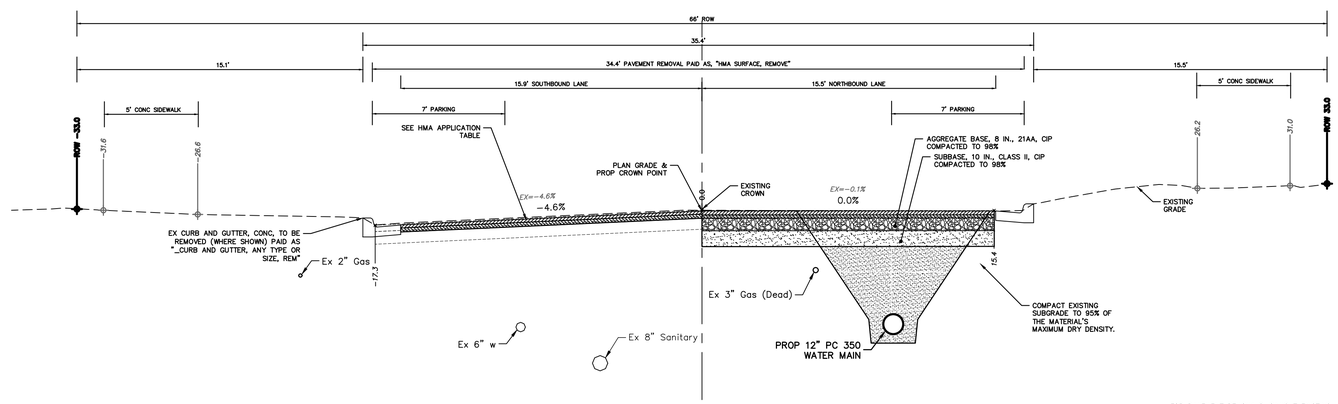
FOR PAVEMENT REMOVALS, SAWCUT EXISTING MATERIAL FULL-DEPTH AT REMOVAL LIMITS, AS DIRECTED BY THE ENGINEER.

RESTORE AND ESTABLISH TURF TO LIMITS OF DISTURBANCE. PAID FOR AS "TURF ESTABLISHMENT, PERFORMANCE".

E KINGSLEY STREET
TYPICAL PROPOSED SECTION

N DIVISION ST TO N STATE ST

N.T.S.



FOR PAVEMENT REMOVALS, SAWCUT EXISTING MATERIAL FULL-DEPTH AT REMOVAL LIMITS, AS DIRECTED BY THE ENGINEER.

RESTORE AND ESTABLISH TURF TO LIMITS OF DISTURBANCE. PAID FOR AS "TURF ESTABLISHMENT, PERFORMANCE".

E KINGSLEY STREET
TYPICAL PROPOSED SECTION

DETROIT ST TO N DIVISION ST

N.T.S.

HMA APPLICATION ESTIMATE

HMA PAVEMENT	HMA MIX	RATE OF APPLICATION	THICKNESS (INCHES)	AWI (MIN.)	BINDER	LOCATION/NOTES
HMA PAVEMENT TOP	4EL	220 LB/SYD	2.0	220 (TOP)	PG 58-28	TOP COURSE
HMA PAVEMENT LEVELING	4EL	220 LB/SYD	2.0	-	PG 58-28	LEVELING COURSE
HMA APPROACH TOP	4EL	220 LB/SYD	2	220 (TOP)	PG 58-28	TOP COURSE
HMA APPROACH LEVELING	4EL	220 LB/SYD	2	-	PG 58-28	LEVELING COURSE
HAND PATCHING	4EL	0 - 440 LB/SYD			PG 58-28	HAND PATCHING
ASPHALT EMULSION	SS-1h	0.05 - 0.15 GAL/SYD	-	-	-	INCLUDE IN COST OF HMA ITEM

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00	OUT FOR BID	01-30-26	A2D	IVK

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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

INGALLS KINGSLEY WATER MAIN

TYPCIAL SECTIONS

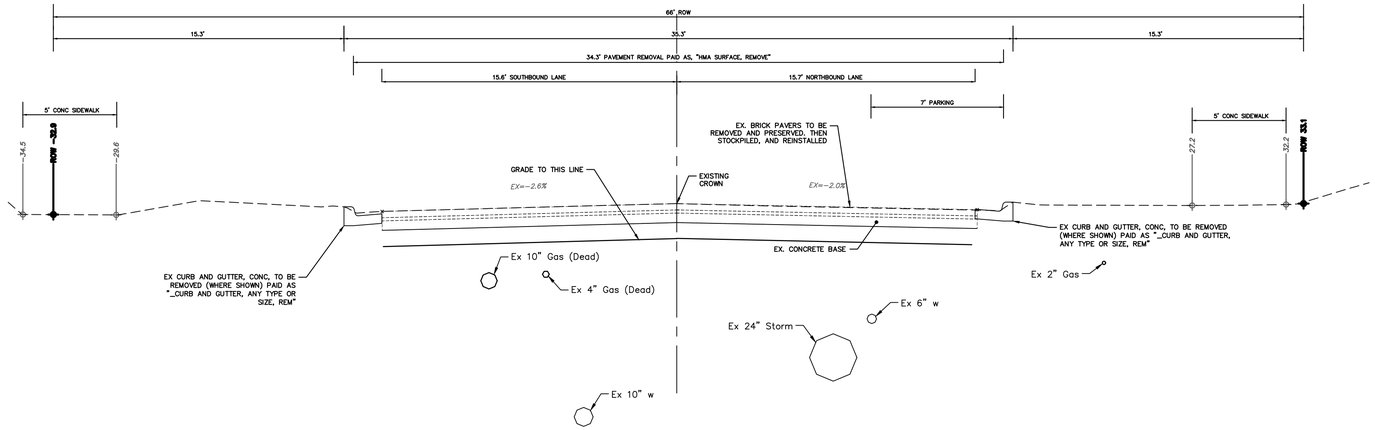
E KINGSLEY ST - PROPOSED

SCALE PLAN: 1" = 4'

DRAWING No. 2025012-6

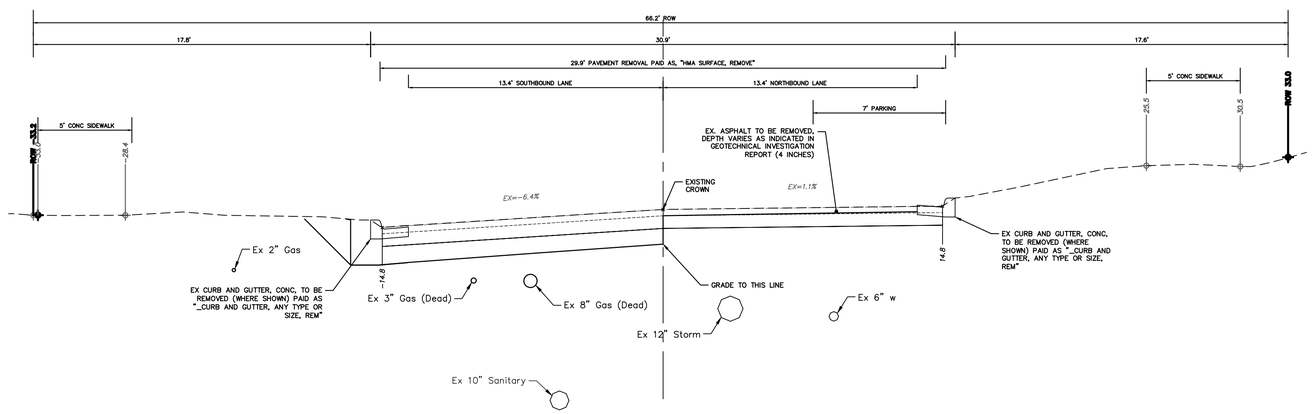
SHEET No. 6 OF 51

R:\2025012 Ingalls Kingsley WM Rsurf\Plan Production\2025012Tsctn.dwg Dwg Created: 30-Jan-26 - _a2 standard bw.stb - Plot Date: 30-Jan-26



N STATE STREET
TYPICAL EXISTING SECTION

N.T.S.



E KINGSLEY STREET
TYPICAL EXISTING SECTION

N STATE ST TO N INGALLS ST

N.T.S.

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	OUT FOR BID	01-30-26	A2D	IVK

Know what's below. Call before you dig.

CITY OF ANN ARBOR
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301 EAST HURON STREET
P.O. BOX 8647
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734-794-6410
www.a2gov.org

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

INGALLS KINGSLEY WATER MAIN

TYPCIAL SECTIONS

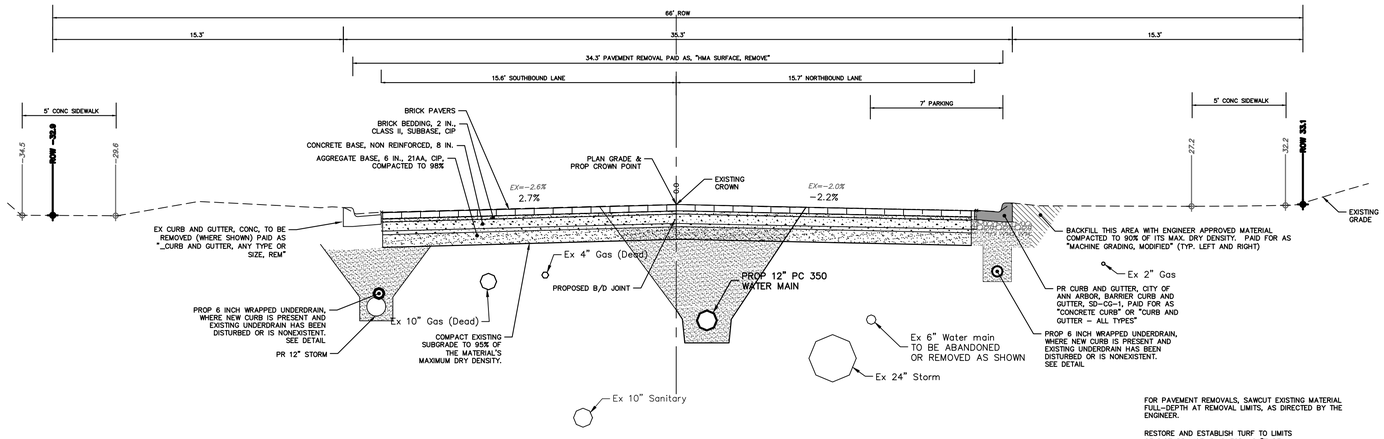
E KINGSLEY & N STATE ST - EXISTING

SCALE PLAN: 1" = 4'

DRAWING No. 2025012-7

SHEET No. 7 OF 51

R:\2025012 Ingalls Kingsley WM Rsurf\Plan Production\20250121sctn.dwg Dwg Created: 30-Jan-26 __a2 standard bw.stb - Plot Date: 30-Jan-26

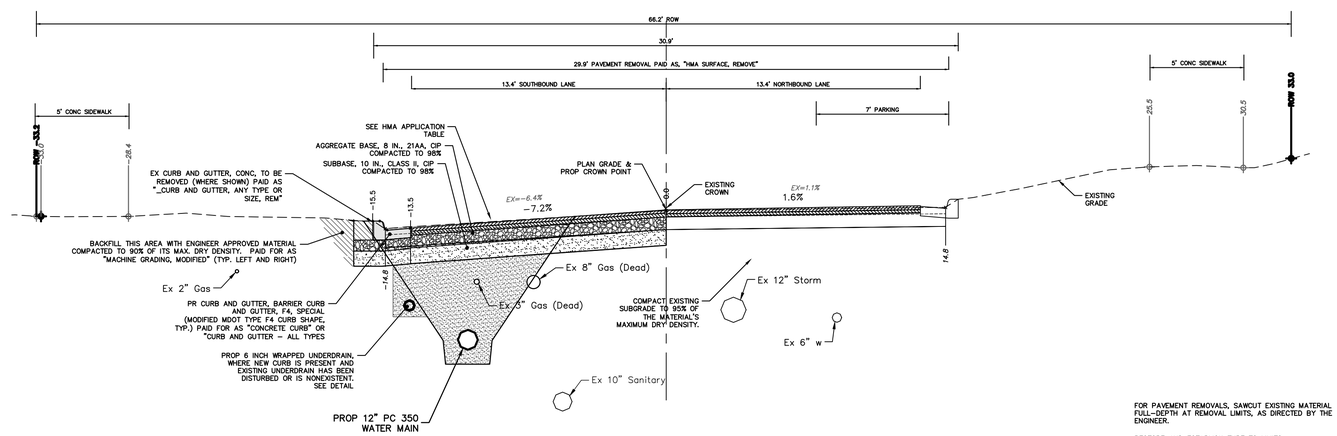


FOR PAVEMENT REMOVALS, SAWCUT EXISTING MATERIAL FULL-DEPTH AT REMOVAL LIMITS, AS DIRECTED BY THE ENGINEER.

RESTORE AND ESTABLISH TURF TO LIMITS OF DISTURBANCE. PAID FOR AS "TURF ESTABLISHMENT, PERFORMANCE".

N STATE STREET
TYPICAL PROPOSED SECTION

N.T.S.



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E KINGSLEY STREET
TYPICAL PROPOSED SECTION

N STATE ST TO N INGALLS ST

N.T.S.

HMA APPLICATION ESTIMATE

HMA PAVEMENT	HMA MIX	RATE OF APPLICATION	THICKNESS (INCHES)	AWI (MIN.)	BINDER	LOCATION/NOTES
HMA PAVEMENT TOP	4EL	220 LB/SYD	2.0	220 (TOP)	PG 58-28	TOP COURSE
HMA PAVEMENT LEVELING	4EL	220 LB/SYD	2.0	-	PG 58-28	LEVELING COURSE
HMA APPROACH TOP	4EL	220 LB/SYD	2	220 (TOP)	PG 58-28	TOP COURSE
HMA APPROACH LEVELING	4EL	220 LB/SYD	2	-	PG 58-28	LEVELING COURSE
HAND PATCHING	4EL	0 - 440 LB/SYD			PG 58-28	HAND PATCHING
ASPHALT EMULSION	SS-1h	0.05 - 0.15 GAL/SYD	-	-	-	INCLUDE IN COST OF HMA ITEM

Know what's below. Call before you dig.

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	OUT FOR BID	01-30-26	A2D	IVK

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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

INGALLS KINGSLEY WATER MAIN

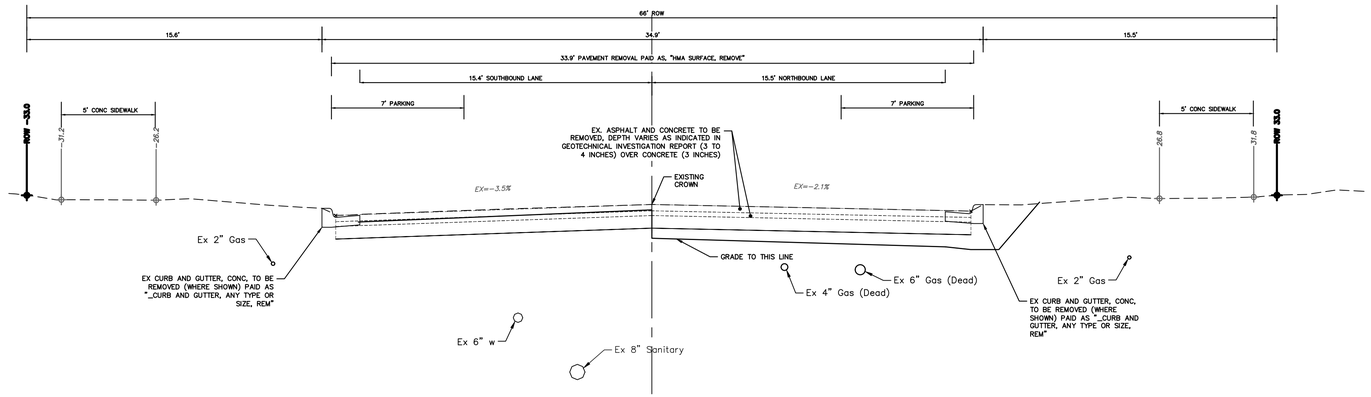
TYPICAL SECTIONS

E KINGSLEY & N STATE ST - PROPOSED

SCALE PLAN: 1" = 4'

DRAWING No. 2025012-8

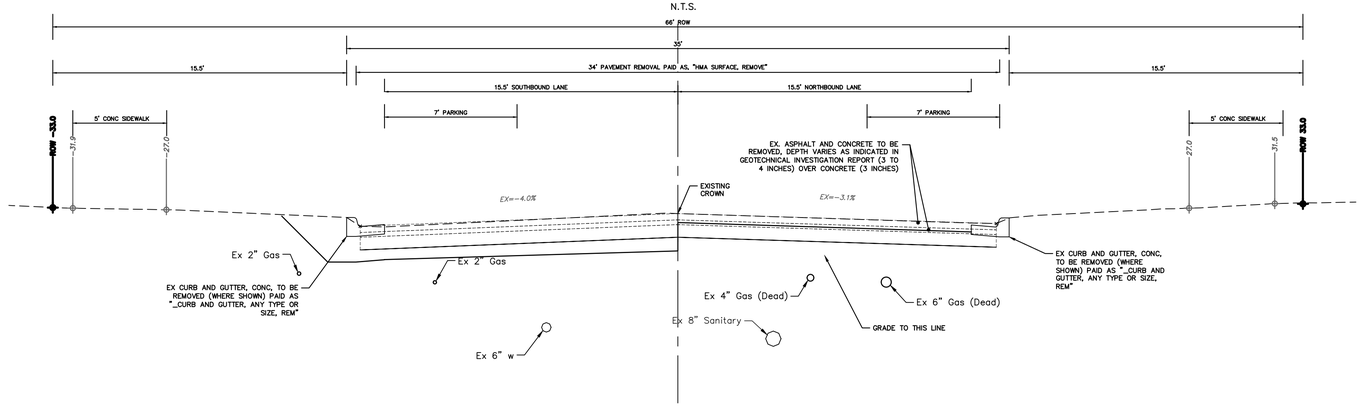
R:\2025012 Ingalls Kingsley WM Rsurf\Plan Production\20250121sctn.dwg Dwg Created: 30-Jan-26 __a2 standard bw.stb - Plot Date: 30-Jan-26



N INGALLS STREET
TYPICAL EXISTING SECTION

E ANN ST TO CATHERINE ST

N.T.S.



N INGALLS STREET
TYPICAL EXISTING SECTION

E HURON ST TO E ANN ST

N.T.S.

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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	OUT FOR BID	01-30-26	A2D	IVK

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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

INGALLS KINGSLEY WATER MAIN

TYPCIAL SECTIONS

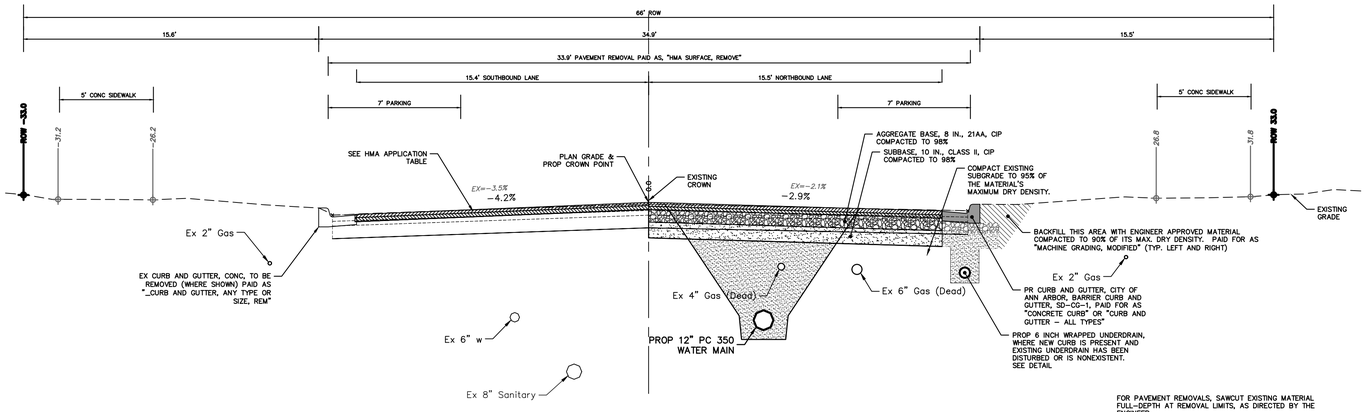
N INGALLS ST - EXISTING

SCALE PLAN: 1" = 4'

DRAWING No. 2025012-9

SHEET No. 9 OF 51

R:\2025012 Ingalls Kingsley WM Rsurf\Plan Production\2025012Tsctn.dwg Dwg Created: 30-Jan-26 — _a2 standard bw.stb — Plot Date: 30-Jan-26



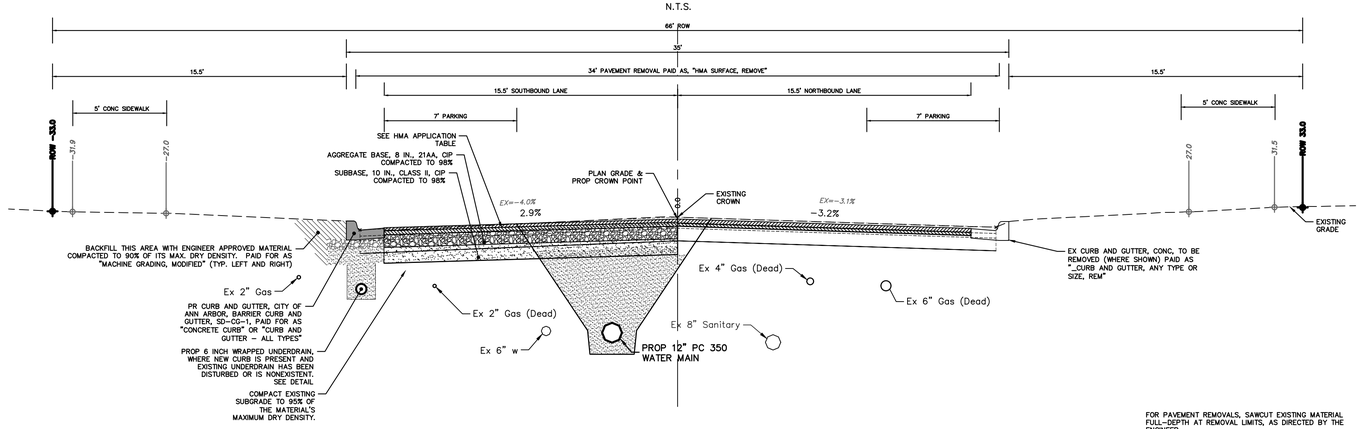
FOR PAVEMENT REMOVALS, SAWCUT EXISTING MATERIAL FULL-DEPTH AT REMOVAL LIMITS, AS DIRECTED BY THE ENGINEER.

RESTORE AND ESTABLISH TURF TO LIMITS OF DISTURBANCE. PAID FOR AS "TURF ESTABLISHMENT, PERFORMANCE".

N INGALLS STREET
TYPICAL PROPOSED SECTION

E ANN ST TO CATHERINE ST

N.T.S.



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RESTORE AND ESTABLISH TURF TO LIMITS OF DISTURBANCE. PAID FOR AS "TURF ESTABLISHMENT, PERFORMANCE".

N INGALLS STREET
TYPICAL PROPOSED SECTION

E HURON ST TO E ANN ST

N.T.S.

HMA APPLICATION ESTIMATE						
HMA PAVEMENT	HMA MIX	RATE OF APPLICATION	THICKNESS (INCHES)	AWI (MIN.)	BINDER	LOCATION/NOTES
HMA PAVEMENT TOP	4EL	220 LB/SYD	2.0	220 (TOP)	PG 58-28	TOP COURSE
HMA PAVEMENT LEVELING	4EL	220 LB/SYD	2.0	-	PG 58-28	LEVELING COURSE
HMA APPROACH TOP	4EL	220 LB/SYD	2	220 (TOP)	PG 58-28	TOP COURSE
HMA APPROACH LEVELING	4EL	220 LB/SYD	2	-	PG 58-28	LEVELING COURSE
HAND PATCHING	4EL	0 - 440 LB/SYD			PG 58-28	HAND PATCHING
ASPHALT EMULSION	SS-1h	0.05 - 0.15 GAL/SYD	-	-	-	INCLUDE IN COST OF HMA ITEM

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

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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

INGALLS KINGSLEY WATER MAIN

TYPCIAL SECTIONS

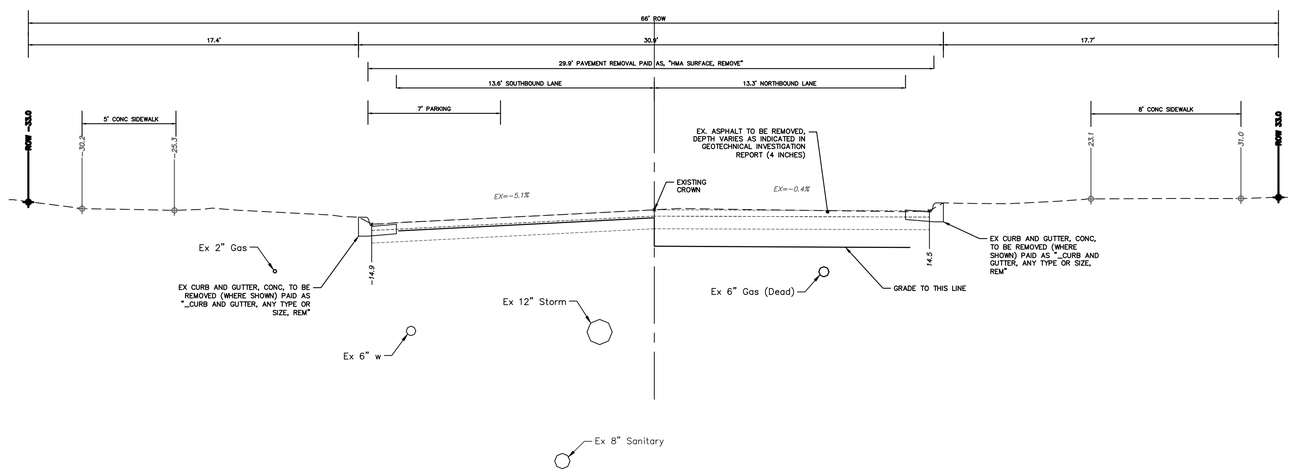
N INGALLS ST - PROPOSED

SCALE PLAN: 1" = 4'

DRAWING No. 2025012-10

SHEET No. 10 OF 51

R:\2025012 Ingalls Kingsley WM Rsurf\Plan Production\20250121sctn.dwg Dwg Created: 30-Jan-26 — _a2 standard bw.stb — Plot Date: 30-Jan-26



N INGALLS STREET
TYPICAL EXISTING SECTION

CATHERINE ST TO E KINGSLEY ST

N.T.S.

R:\2025012 Ingalls Kingsley WM Rsurf\Plan Production\2025012Tsctn.dwg Dwg Created: 30-Jan-26 - _a2 standard bw.stb - Plot Date: 30-Jan-26

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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

INGALLS KINGSLEY WATER MAIN

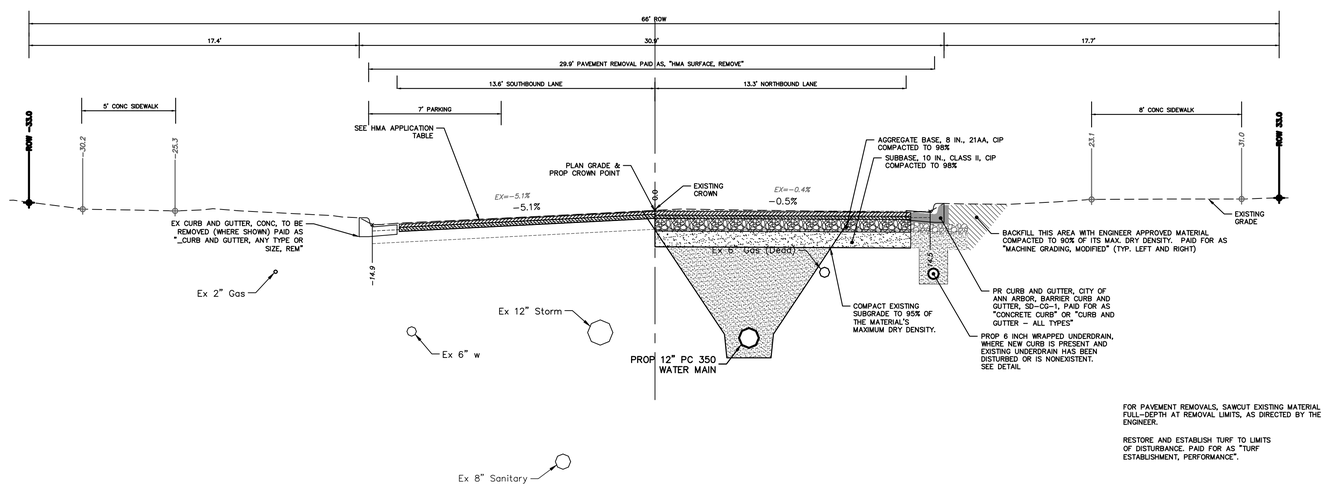
TYPCIAL SECTIONS

N INGALLS ST - EXISTING

SCALE **PLAN:** 1" = 4'

DRAWING No.
2025012-11

SHEET No.
11 OF 51



FOR PAVEMENT REMOVALS, SAWCUT EXISTING MATERIAL FULL-DEPTH AT REMOVAL LIMITS, AS DIRECTED BY THE ENGINEER.

RESTORE AND ESTABLISH TURF TO LIMITS OF DISTURBANCE. PAID FOR AS "TURF ESTABLISHMENT, PERFORMANCE".

N INGALLS STREET
TYPICAL PROPOSED SECTION

CATHERINE ST TO E KINGSLEY ST

N.T.S.

HMA APPLICATION ESTIMATE

HMA PAVEMENT	HMA MIX	RATE OF APPLICATION	THICKNESS (INCHES)	AWI (MIN.)	BINDER	LOCATION/NOTES
HMA PAVEMENT TOP	4EL	220 LB/SYD	2.0	220 (TOP)	PG 58-28	TOP COURSE
HMA PAVEMENT LEVELING	4EL	220 LB/SYD	2.0	-	PG 58-28	LEVELING COURSE
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HMA APPROACH LEVELING	4EL	220 LB/SYD	2	-	PG 58-28	LEVELING COURSE
HAND PATCHING	4EL	0 - 440 LB/SYD			PG 58-28	HAND PATCHING
ASPHALT EMULSION	SS-1h	0.05 - 0.15 GAL/SYD	-	-	-	INCLUDE IN COST OF HMA ITEM

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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	OUT FOR BID	01-30-26	A2D	IVK

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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

INGALLS KINGSLEY WATER MAIN

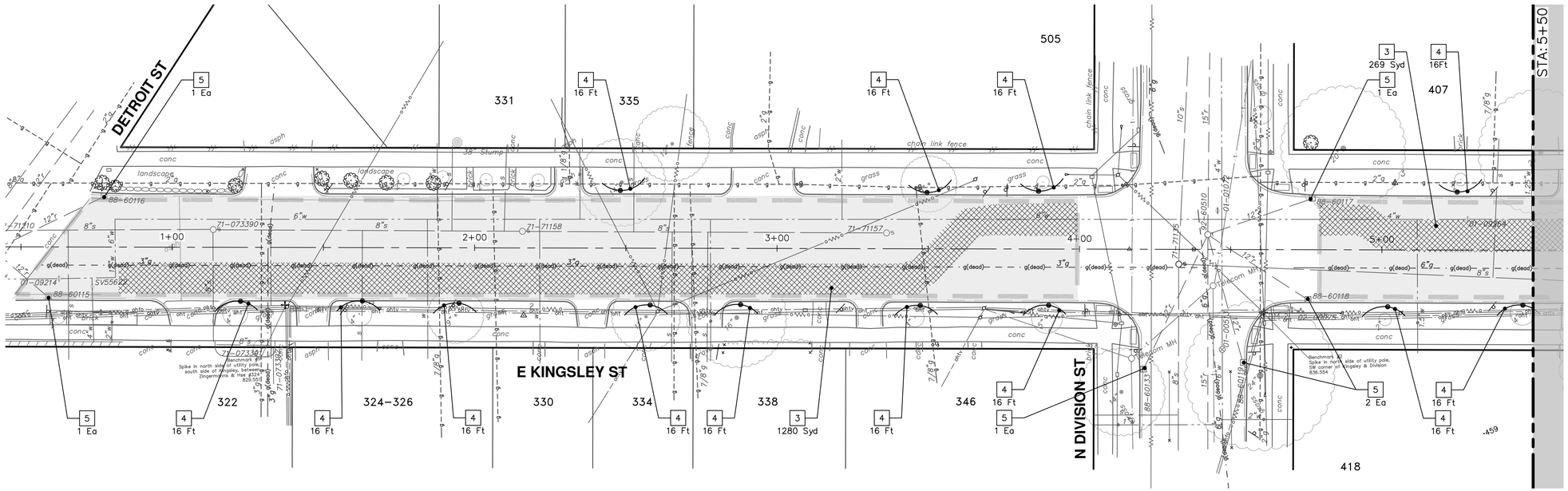
TYPCIAL SECTIONS

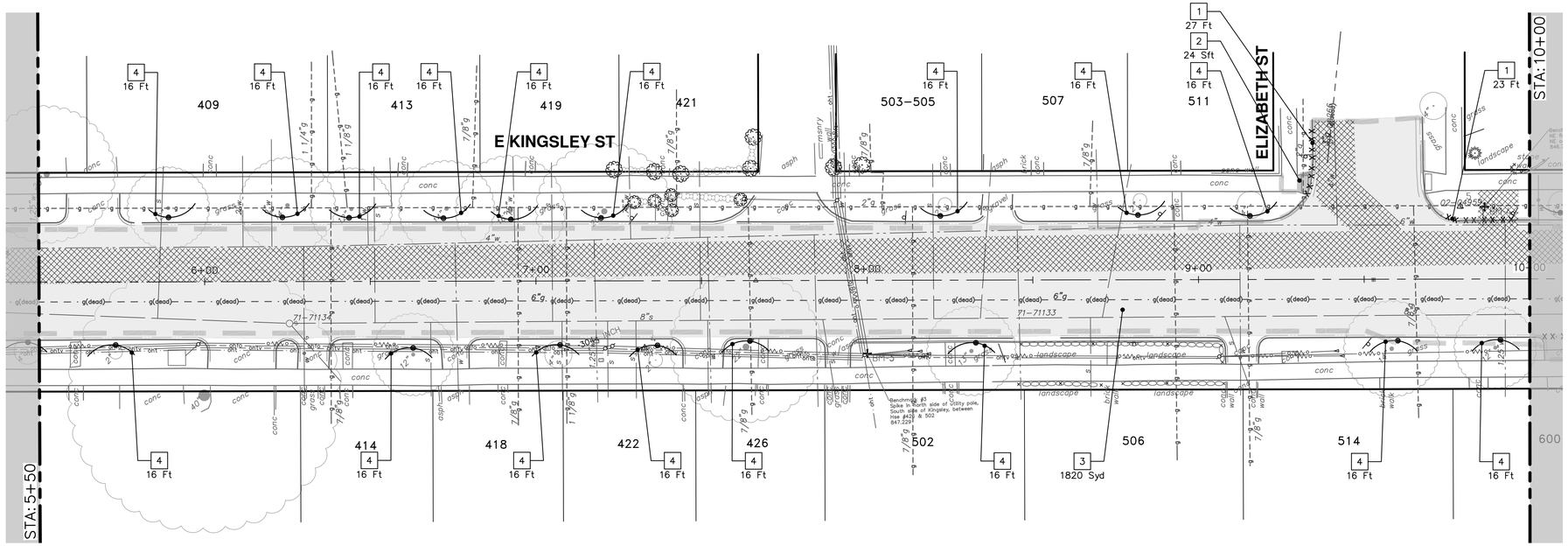
N INGALLS ST - PROPOSED

SCALE PLAN: 1" = 4'

DRAWING No. 2025012-12

R:\2025012 Ingalls Kingsley WM Rsurf\Plan Production\2025012Tsctn.dwg Dwg Created: 30-Jan-26 — _a2 standard bw.stb — Plot Date: 30-Jan-26





REMOVAL KEY

KEY	DESCRIPTION
1	Curb, Gutter, and Curb and Gutter, Any Type, Rem *
2	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem
3	HMA, Any Thickness, Rem *
4	Tree Protective Fence
5	Erosion Control, Inlet Protection, Fabric Drop
6A	Tree, Rem, 6 In. – 12 In.
6B	Tree, Rem, 13 In. – 19 In.
6C	Tree, Rem, 20 In. – 29 In.
7	Brick Pavers, Sidewalk, Rem and Reinstall

* SAWCUT FULL DEPTH AT REMOVAL LIMITS AS DIRECTED BY ENGINEER

Know what's below. Call before you dig.

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	OUT FOR BID	01–30–26	A2D	IVK

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ANN ARBOR, MI 48107-8647
734-994-2926
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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

INGALLS KINGSLEY WATER MAIN

REMOVALS

STA 0+60 - STA 10+00

SCALE : 1" = 20'

DRAWING No. 2025012-13

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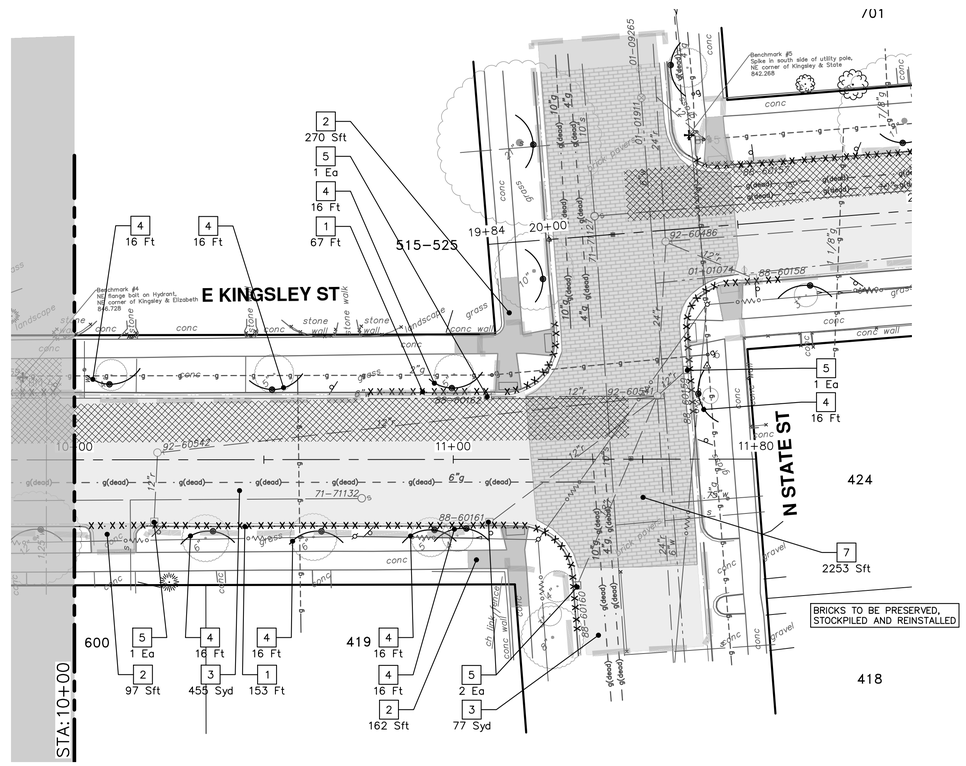

REMOVAL KEY

KEY	DESCRIPTION
1	Curb, Gutter, and Curb and Gutter, Any Type, Rem *
2	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem
3	HMA, Any Thickness, Rem *
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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	OUT FOR BID	01-30-26	A2D	IVK

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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

INGALLS KINGSLEY WATER MAIN

REMOVALS

STA 10+00 - STA 11+80

SCALE : 1" = 20'

DRAWING No. 2025012-14

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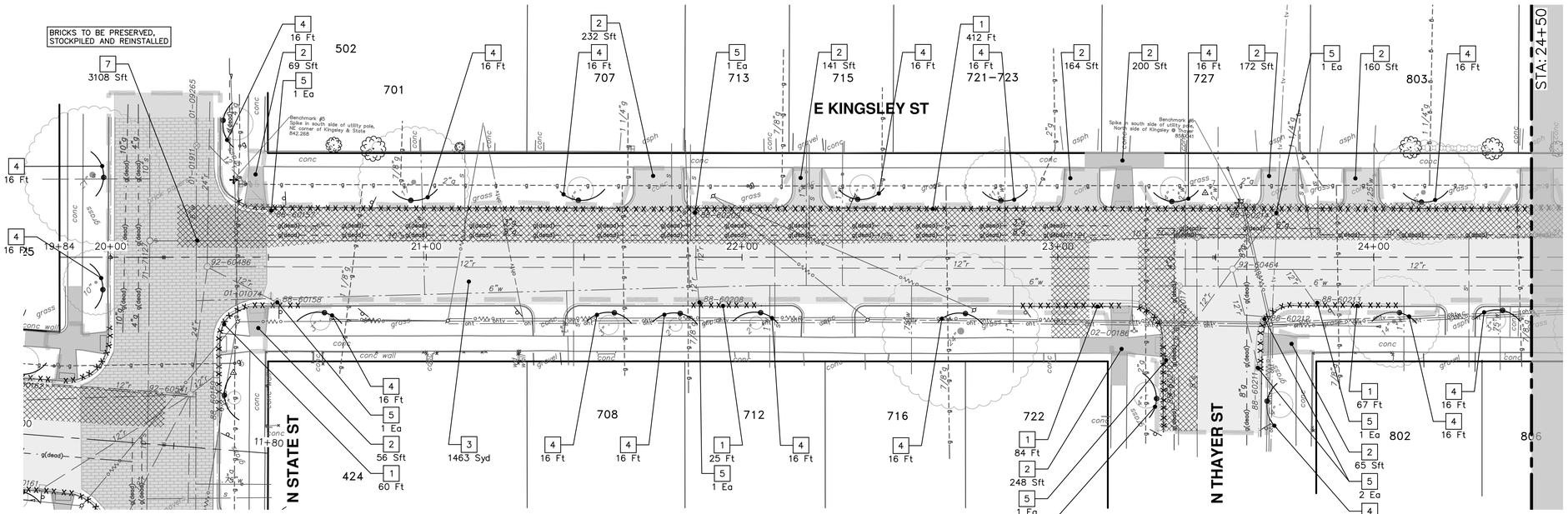

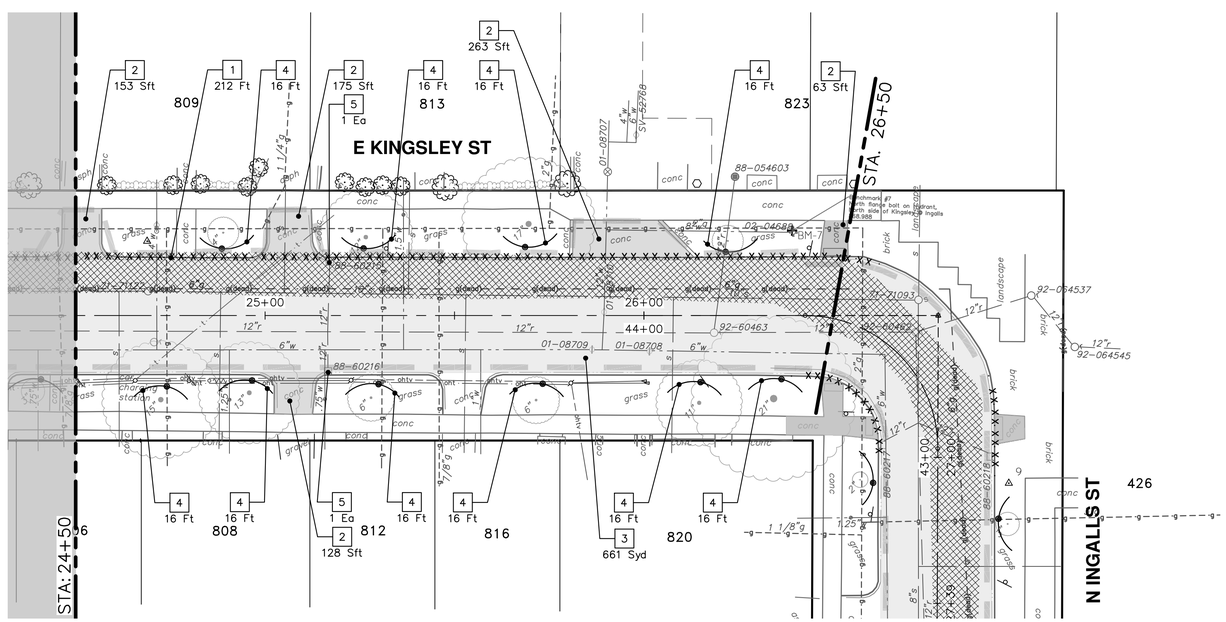

REMOVAL KEY

KEY	DESCRIPTION
1	Curb, Gutter, and Curb and Gutter, Any Type, Rem *
2	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem
3	HMA, Any Thickness, Rem *
4	Tree Protective Fence
5	Erosion Control, Inlet Protection, Fabric Drop
6A	Tree, Rem, 6 In. – 12 In.
6B	Tree, Rem, 13 In. – 19 In.
6C	Tree, Rem, 20 In. – 29 In.
7	Brick Pavers, Sidewalk, Rem and Reinstall

* SAWCUT FULL DEPTH AT REMOVAL LIMITS AS DIRECTED BY ENGINEER

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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	OUT FOR BID	01–30–26	A2D	IVK

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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

INGALLS KINGSLEY WATER MAIN

REMOVALS

STA 20+00 - STA 26+50

SCALE : 1" = 20'

DRAWING No. 2025012-15

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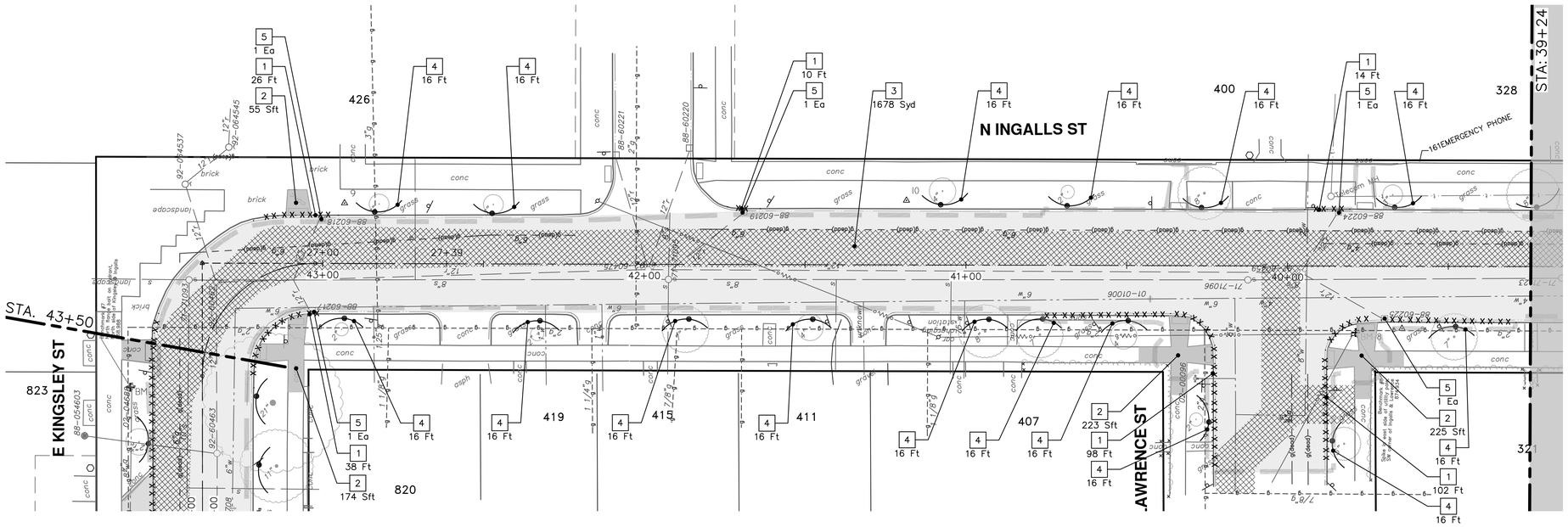

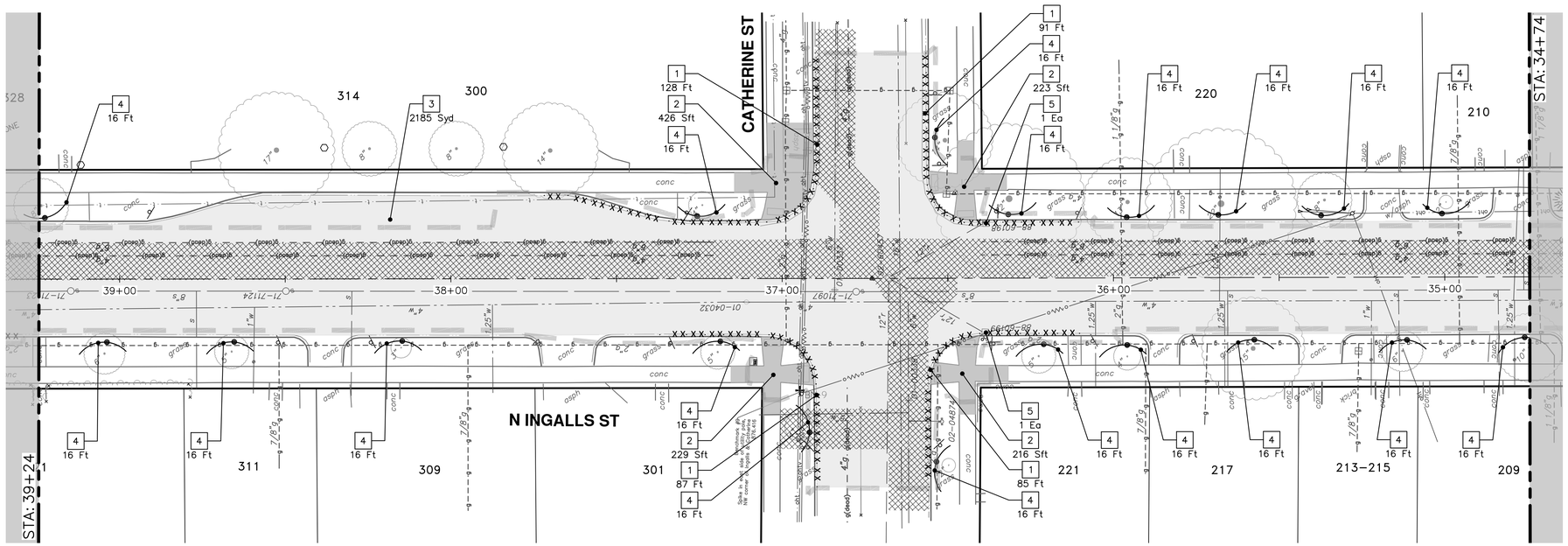

REMOVAL KEY

KEY	DESCRIPTION
1	Curb, Gutter, and Curb and Gutter, Any Type, Rem *
2	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem
3	HMA, Any Thickness, Rem *
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7	Brick Pavers, Sidewalk, Rem and Reinstall

* SAWCUT FULL DEPTH AT REMOVAL LIMITS AS DIRECTED BY ENGINEER

Know what's below. Call before you dig.

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	OUT FOR BID	01–30–26	A2D	IVK

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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

INGALLS KINGSLEY WATER MAIN

REMOVALS

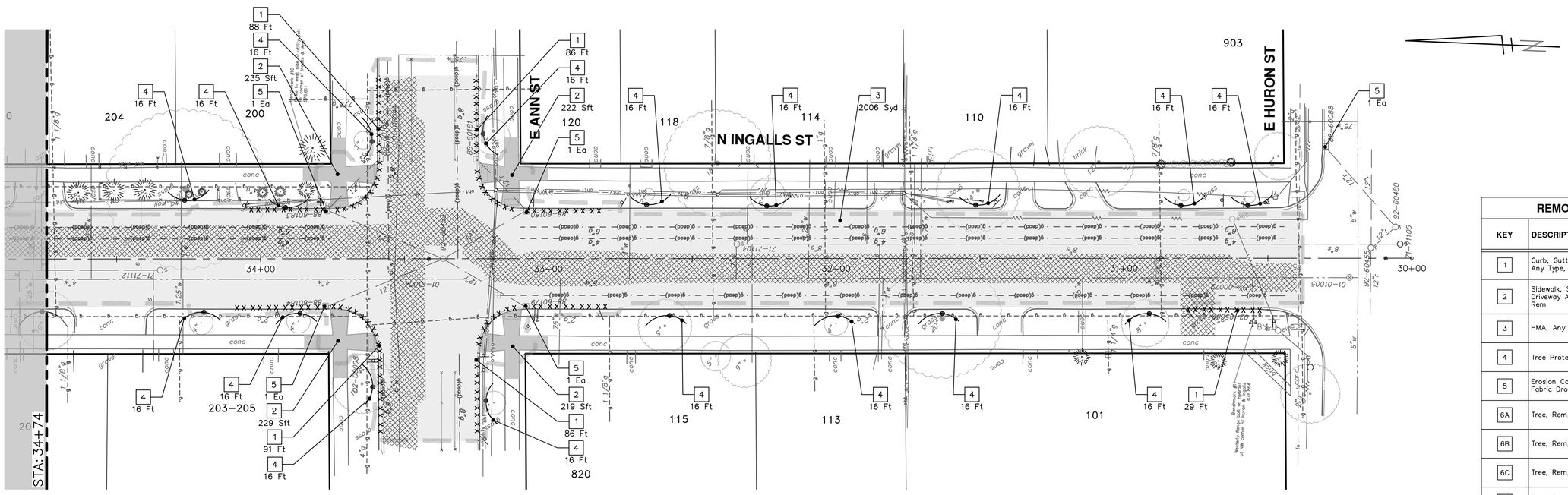
STA 34+74 - STA 43+50

SCALE : 1" = 20'

DRAWING No. 2025012-16

SHEET No. 16 OF 51

R:\2025012 Ingalls Kingsley WM Rsurf\Plan Production\2025012Rem.dwg Dwg Created: 28-Jan-26 — a2 standard bw.stb — Plot Date: 29-Jan-26



REMOVAL KEY

KEY	DESCRIPTION
1	Curb, Gutter, and Curb and Gutter, Any Type, Rem *
2	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem
3	HMA, Any Thickness, Rem *
4	Tree Protective Fence
5	Erosion Control, Inlet Protection, Fabric Drop
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6B	Tree, Rem, 13 In. – 19 In.
6C	Tree, Rem, 20 In. – 29 In.
7	Brick Pavers, Sidewalk, Rem and Reinstall

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Know what's below. Call before you dig.

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	OUT FOR BID	01-30-26	A2D	IVK

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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

INGALLS KINGSLEY WATER MAIN

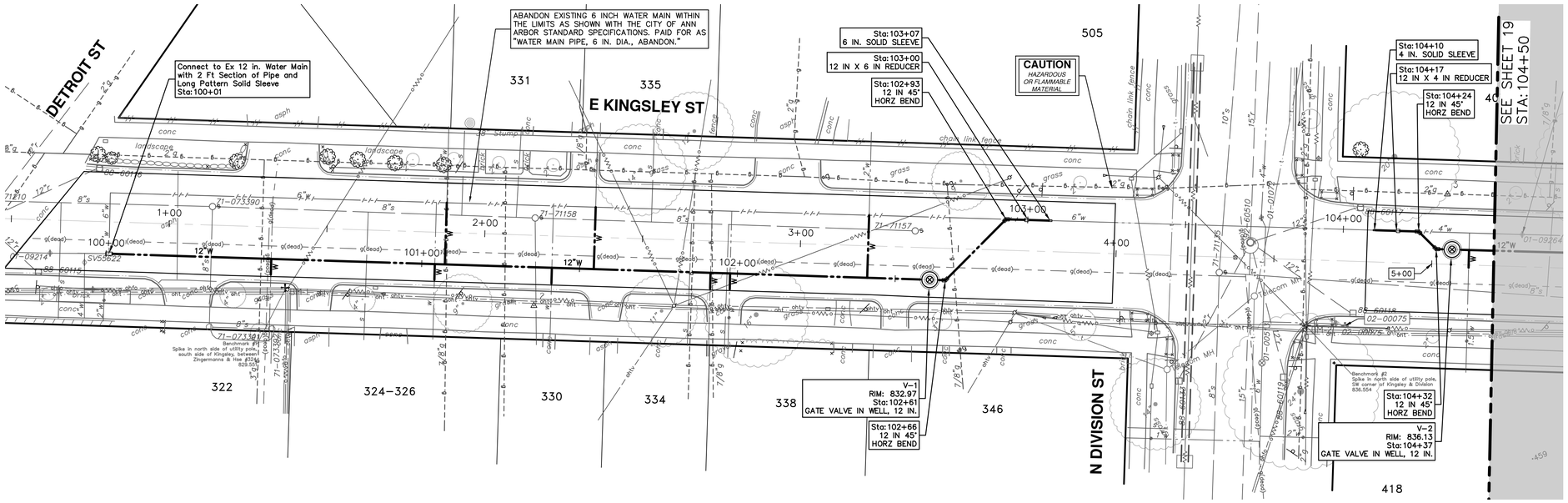
REMOVALS

STA 30+38 - STA 34+74

SCALE : 1" = 20'

DRAWING No.
2025012-17

R:\2025012 Ingalls Kingsley WM Rsurf\Plan Production\2025012Rem.dwg Dwg Created: 28-Jan-26 - _a2 standard bw.stb - Plot Date: 29-Jan-26

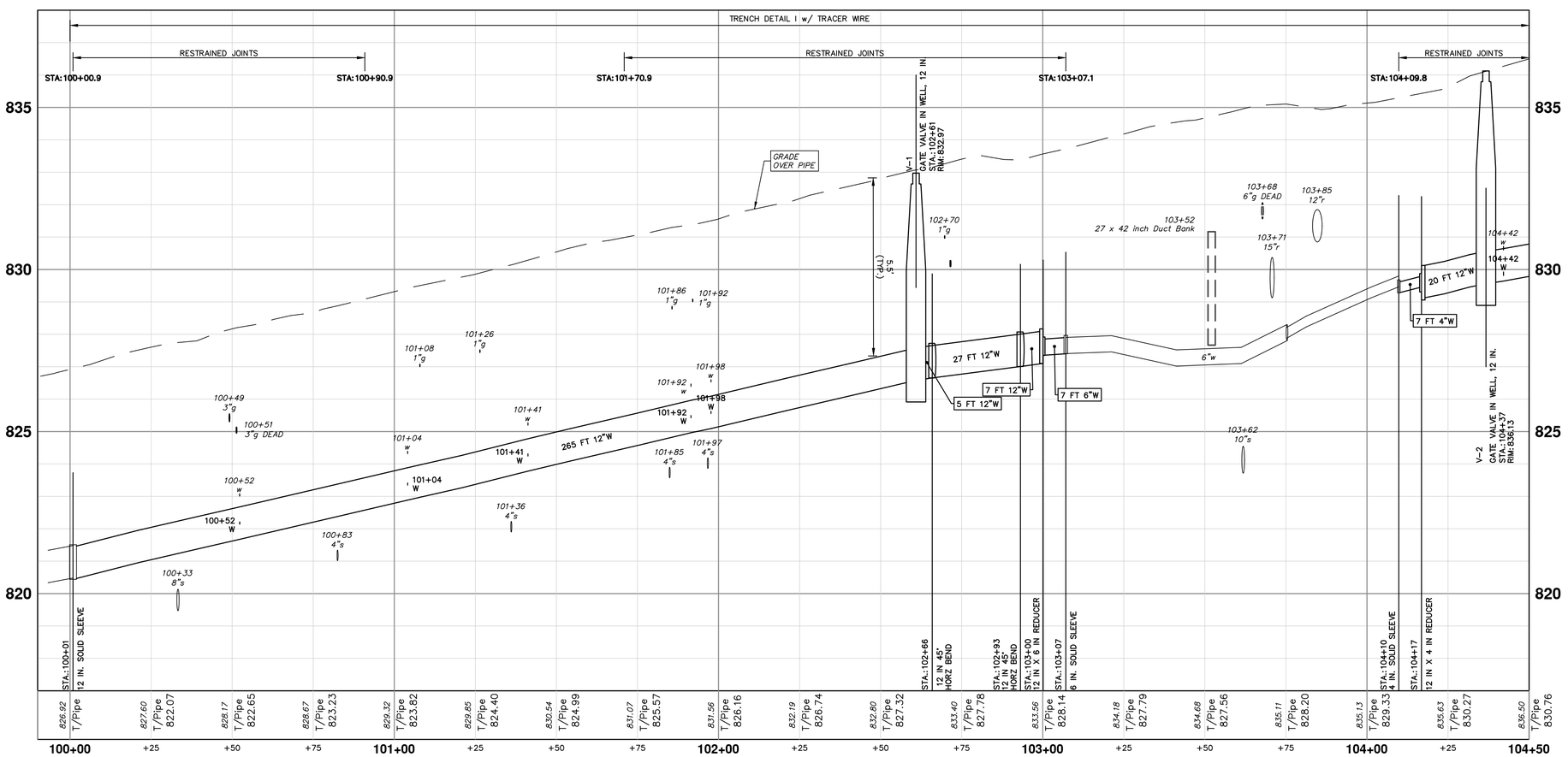


WATER MAIN STRUCTURES			
STRUCTURE	TYPE	STATION	RIM
V-1	Gate Valve in Well, 12 In.	102+61	832.97
V-2	Gate Valve in Well, 12 In.	104+37	836.13

THE CONTRACTOR SHALL REMOVE AND ABANDON THE NECESSARY PORTIONS OF THE EXISTING WATER MAINS IN ORDER TO FACILITATE THE PROPOSED WATER MAIN INTER-CONNECTION. ALL COSTS ASSOCIATED WITH PERFORMING THE INTER-CONNECTION, COORDINATING UTILITY SHUTDOWNS, ABANDONING WATER MAIN, RE-ABANDONING THE WATER MAIN AND ALL RELATED WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE RELATED ITEMS OF WORK.

WHERE EXISTING WATER MAIN IS EXPOSED FOR A CONNECTION OR APPURTENANCE INSTALLATION, THE CONTRACTOR SHALL INSTALL ONE SACRIFICIAL ANODE ON THE EXISTING PIPE. IF THE NEW FITTING IS INSTALLED IN-LINE WITH THE EXISTING MAIN, SUCH AS AT A CUT-IN TEE OR VALVE INSERTION, ONE ANODE SHALL BE INSTALLED ON THE EXISTING PIPE TO EACH SIDE OF THE NEW FITTING. EACH ANODE INSTALLED ON EXISTING WATER MAIN WILL BE PAID FOR AS "SACRIFICIAL ANODE, XX LB"

DETROIT ST TO N STATE ST



811 Know what's below. Call before you dig.			
00	OUT FOR BID	01-30-26	A2D	IVK
REV.	DESCRIPTION	DATE	DRAWN	CHECKED

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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

INGALLS KINGSLEY WATER MAIN

WATER MAIN PLAN AND PROFILE

STA 100+00 - STA 104+50

SCALE PLAN: 1" = 20' PROFILE: 1" = 2'

DRAWING No. 2025012-18

SHEET No. 18 OF 51

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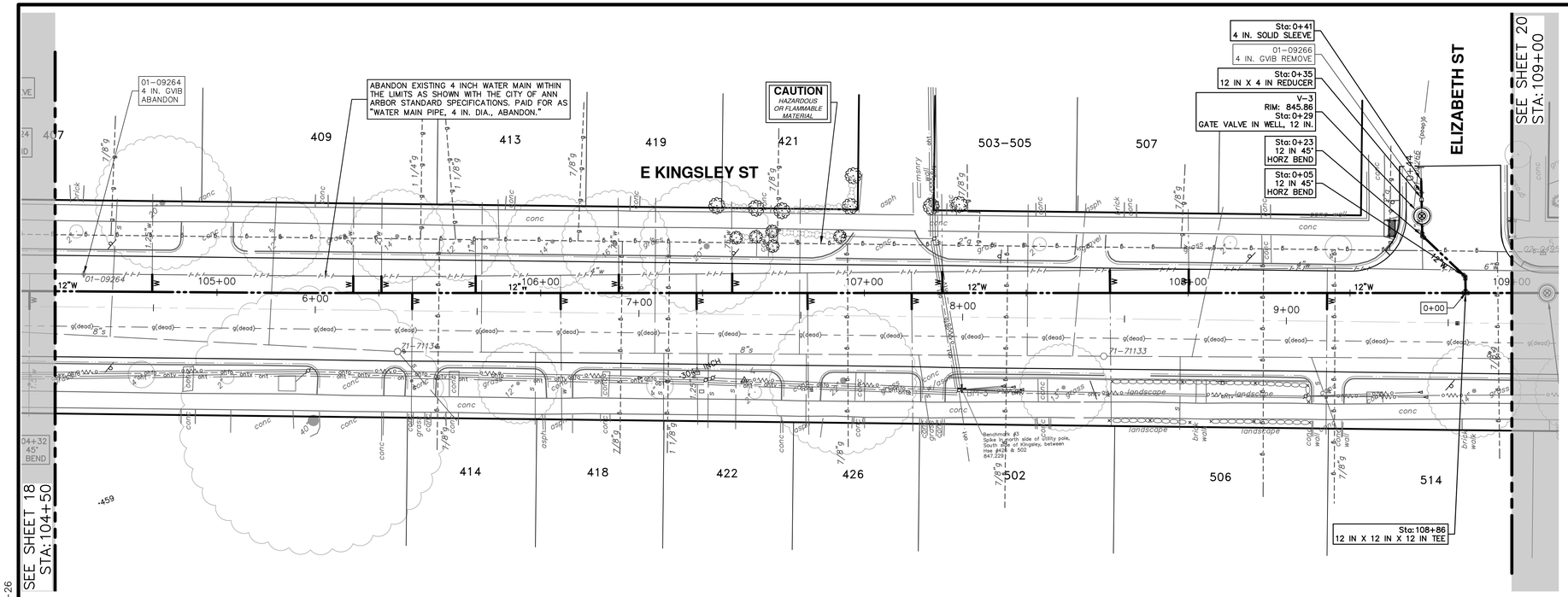

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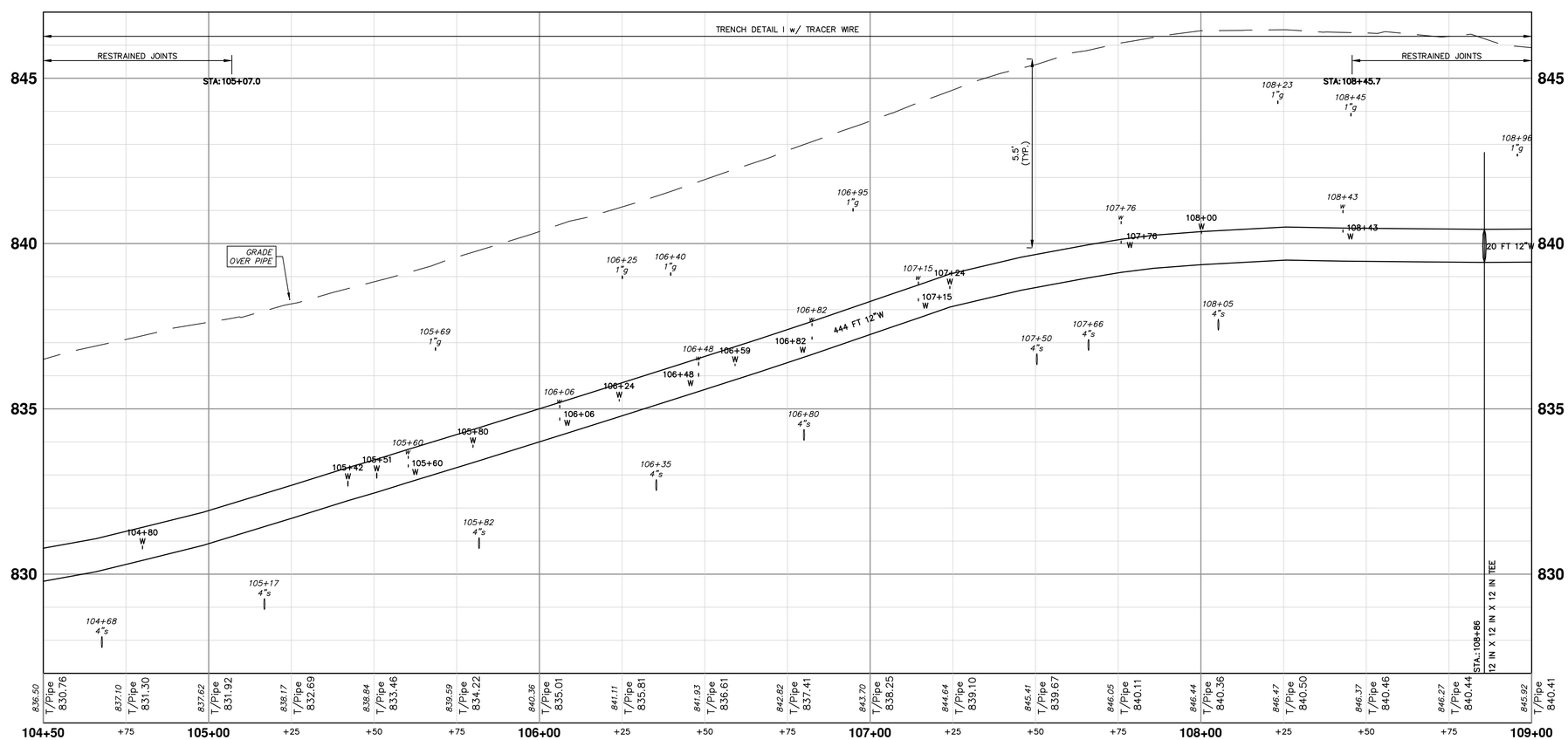
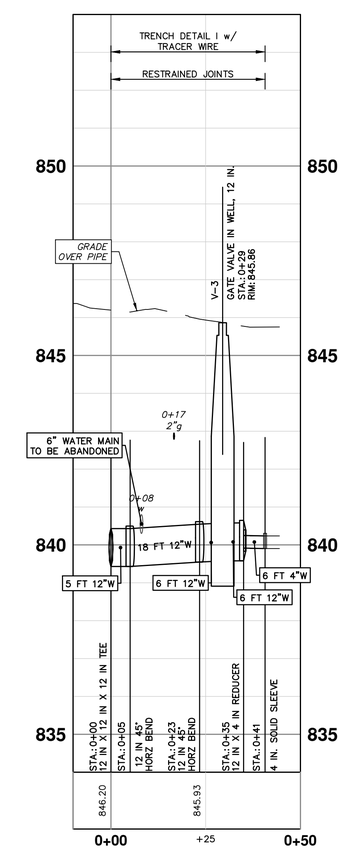
WATER MAIN STRUCTURES

STRUCTURE	TYPE	STATION	RIM
V-3	Gate Valve in Well, 12 In.	0+29	845.86

DETROIT ST TO N STATE ST



ELIZABETH ST



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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

INGALLS KINGSLEY WATER MAIN

WATER MAIN PLAN AND PROFILE

STA 104+50 - STA 109+00

SCALE PLAN: 1" = 20' PROFILE: 1" = 2'

DRAWING No. 2025012-19

SHEET No. 19 OF 51

R:\2025012 Ingalls Kingsley WM Rsurf\Plan Production\2025012Wtr.dwg Dwg Created: 29-Jan-26 — _a2 standard bw.stb — Plot Date: 29-Jan-26

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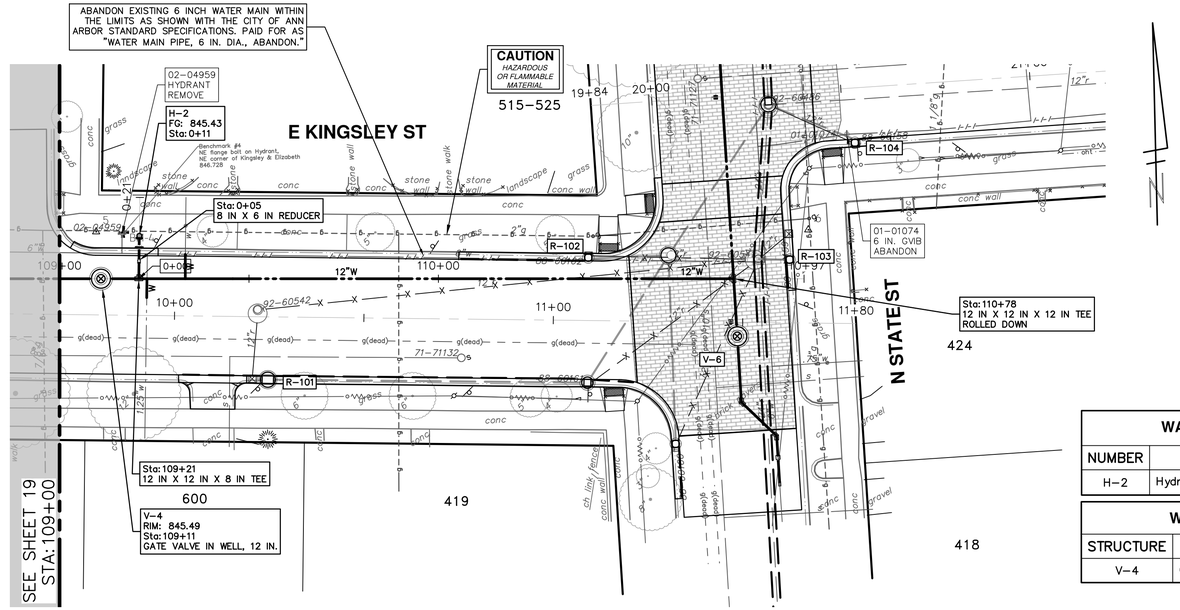
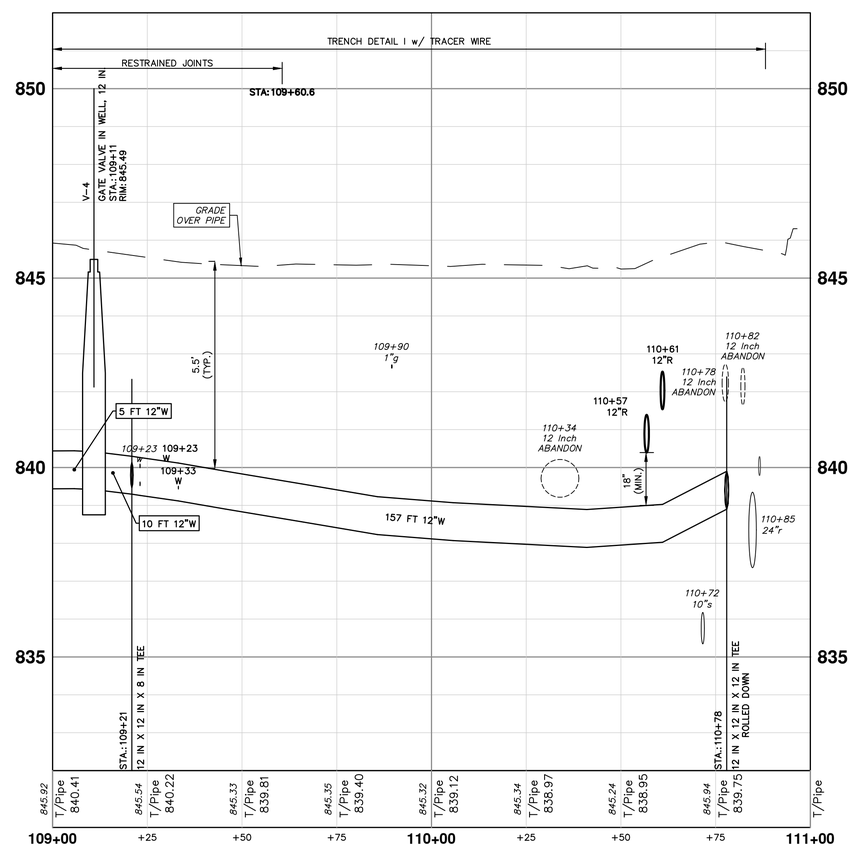


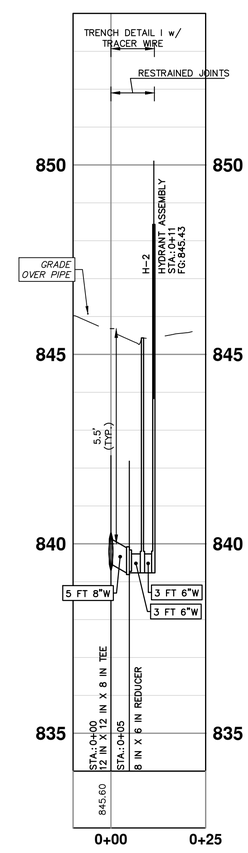
WATER HYDRANT(S)			
NUMBER	TYPE	STATION	FG
H-2	Hydrant Assembly	0+11	845.43

WATER MAIN STRUCTURES			
STRUCTURE	TYPE	STATION	RIM
V-4	Gate Valve in Well, 12 In.	109+11	845.49

DETROIT ST TO N STATE ST



H-2



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INGALLS KINGSLEY WATER MAIN

WATER MAIN PLAN AND PROFILE

STA 109+00 - STA 110+78

SCALE PLAN: 1" = 20' PROFILE: 1" = 2'

DRAWING No. 2025012-20

SHEET No. 20 OF 51

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THE CONTRACTOR SHALL REMOVE AND ABANDON THE NECESSARY PORTIONS OF THE EXISTING WATER MAINS IN ORDER TO FACILITATE THE PROPOSED WATER MAIN INTER-CONNECTION. ALL COSTS ASSOCIATED WITH PERFORMING THE INTER-CONNECTION, COORDINATING UTILITY SHUTDOWNS, ABANDONING WATER MAIN, RE-ABANDONING THE WATER MAIN AND ALL RELATED WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE RELATED ITEMS OF WORK.

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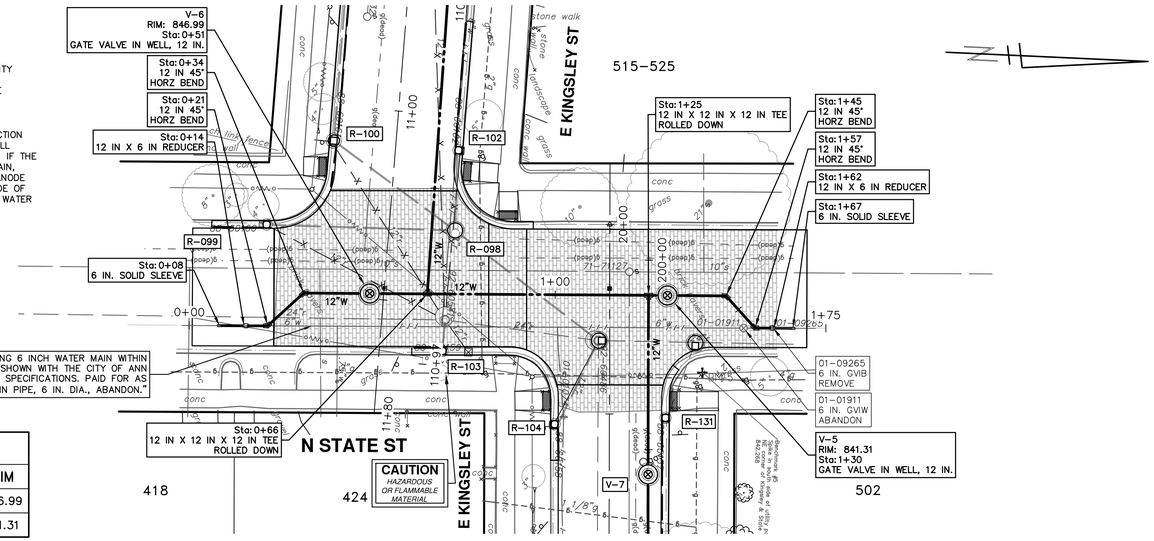
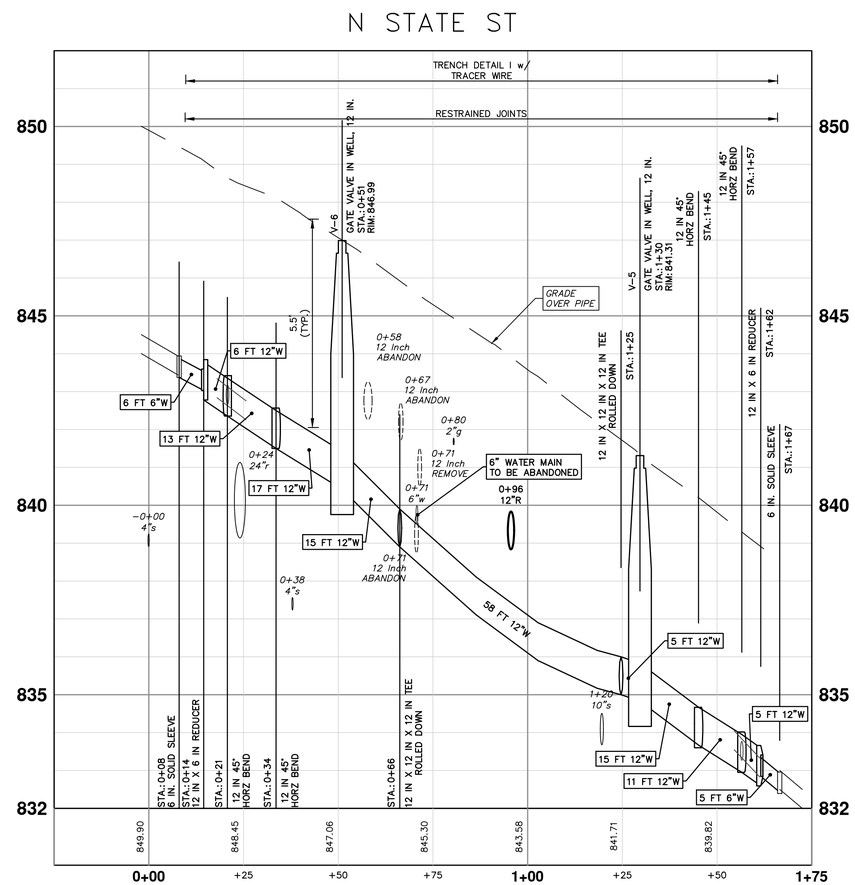


WATER MAIN STRUCTURES			
STRUCTURE	TYPE	STATION	RIM
V-6	Gate Valve in Well, 12 In.	0+51	846.99
V-5	Gate Valve in Well, 12 In.	1+30	841.31



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INGALLS KINGSLEY WATER MAIN

WATER MAIN PLAN AND PROFILE

N STATE ST CONN

SCALE PLAN: 1" = 20' PROFILE: 1" = 2'

DRAWING No. 2025012-21

SHEET No. 21 OF 51

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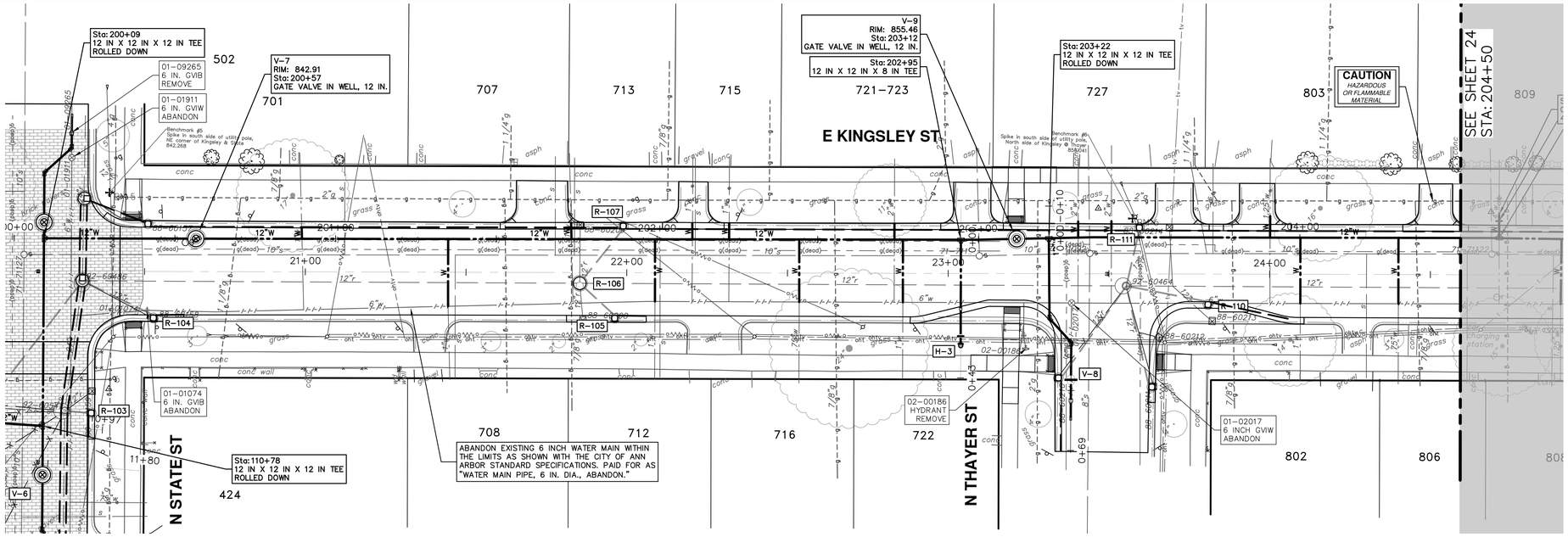

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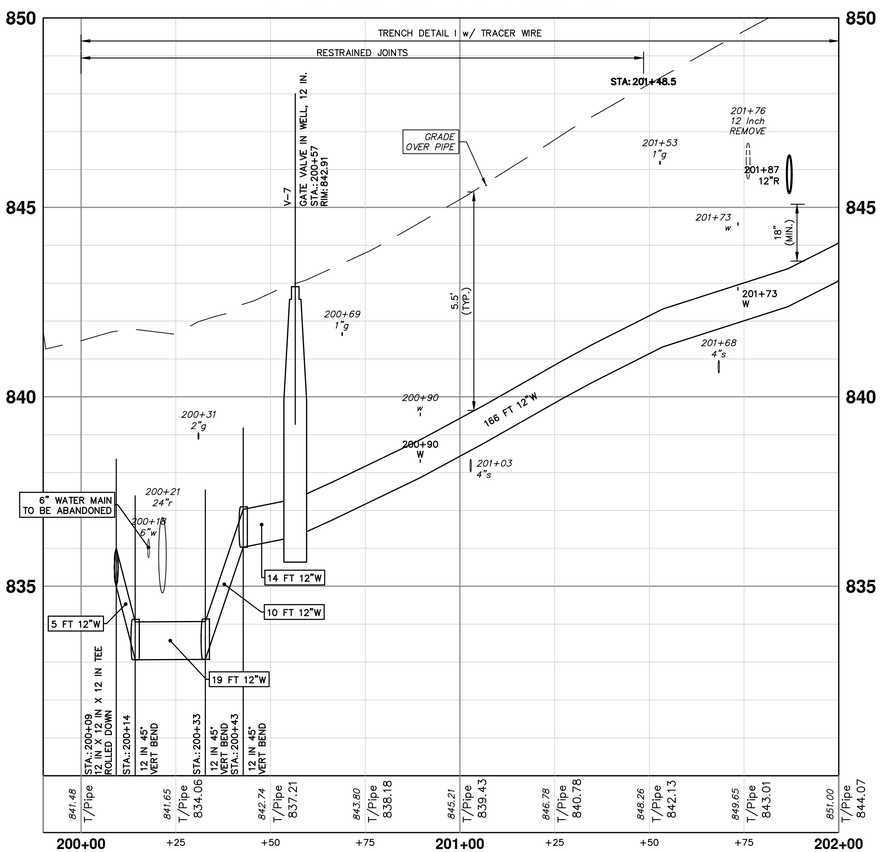
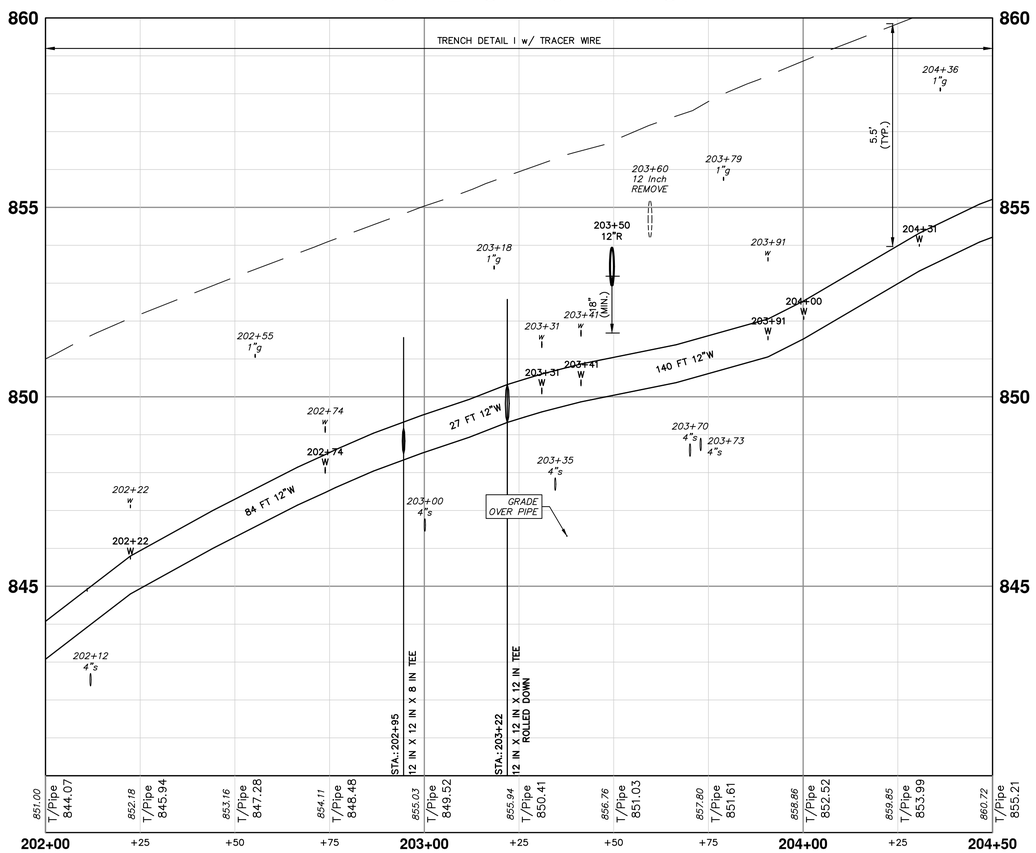
WATER MAIN STRUCTURES

STRUCTURE	TYPE	STATION	RIM
V-7	Gate Valve in Well, 12 In.	200+57	842.91
V-9	Gate Valve in Well, 12 In.	203+12	855.46

N STATE ST TO ANN ST



N STATE ST TO ANN ST



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INGALLS KINGSLEY WATER MAIN

WATER MAIN PLAN AND PROFILE

STA 200+09 - STA 204+50

SCALE PLAN: 1" = 20' PROFILE: 1" = 2'

DRAWING No. 2025012-22

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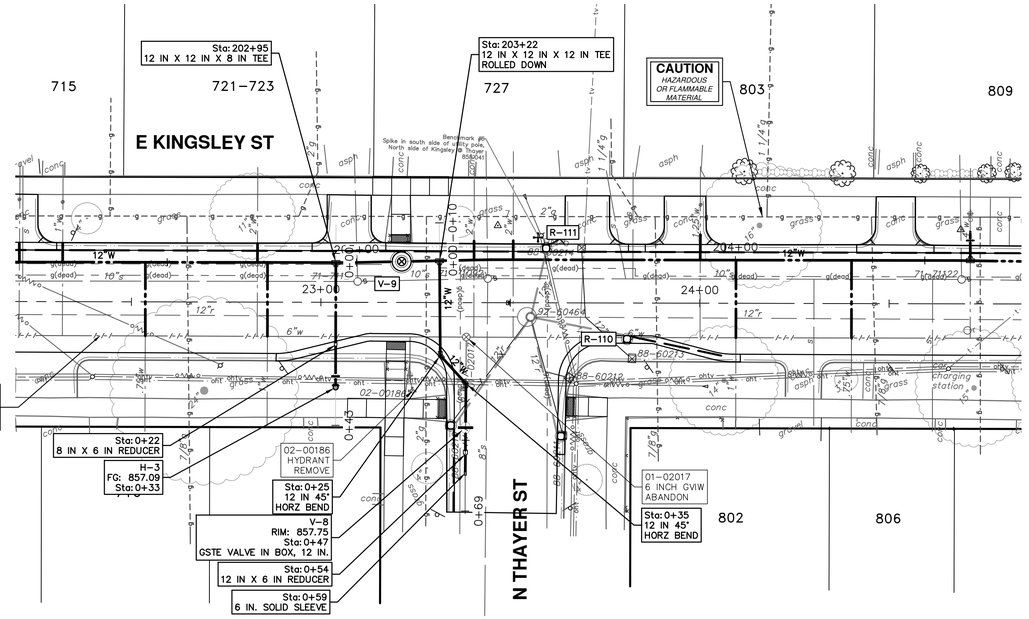

WATER MAIN STRUCTURES			
STRUCTURE	TYPE	STATION	RIM
V–8	Gste Valve in Box, 12 In.	0+47	857.75

WATER HYDRANT(S)			
NUMBER	TYPE	STATION	FG
H–3	Hydrant Assembly	0+33	857.09

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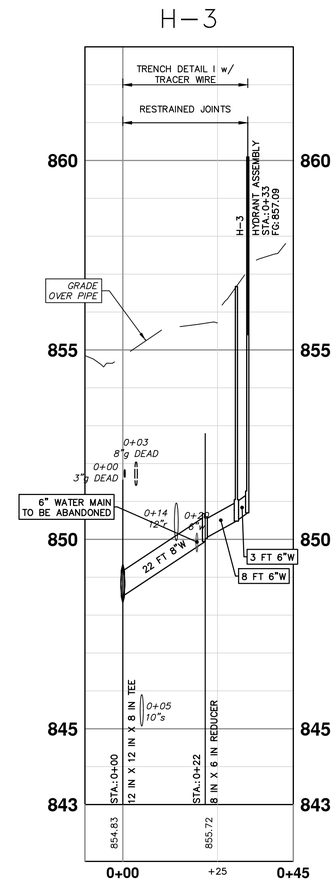

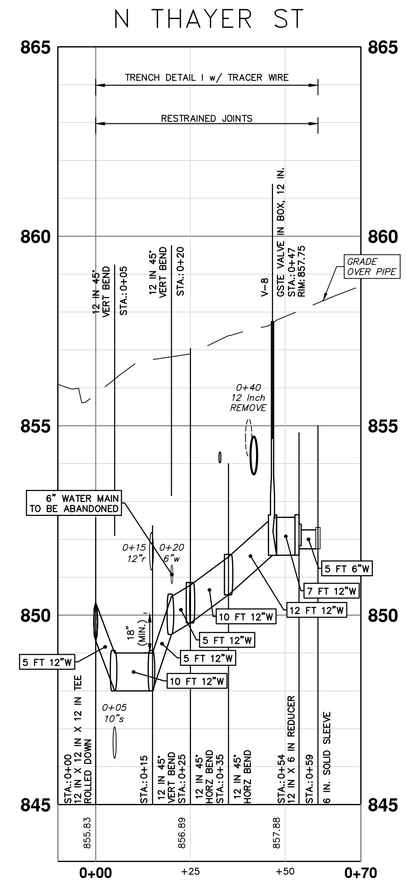

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INGALLS KINGSLEY WATER MAIN

WATER MAIN PLAN AND PROFILE

H-3, N THAYER ST CONN

SCALE PLAN: 1" = 20' PROFILE: 1" = 2'

DRAWING No. 2025012-23

SHEET No. 23 OF 51

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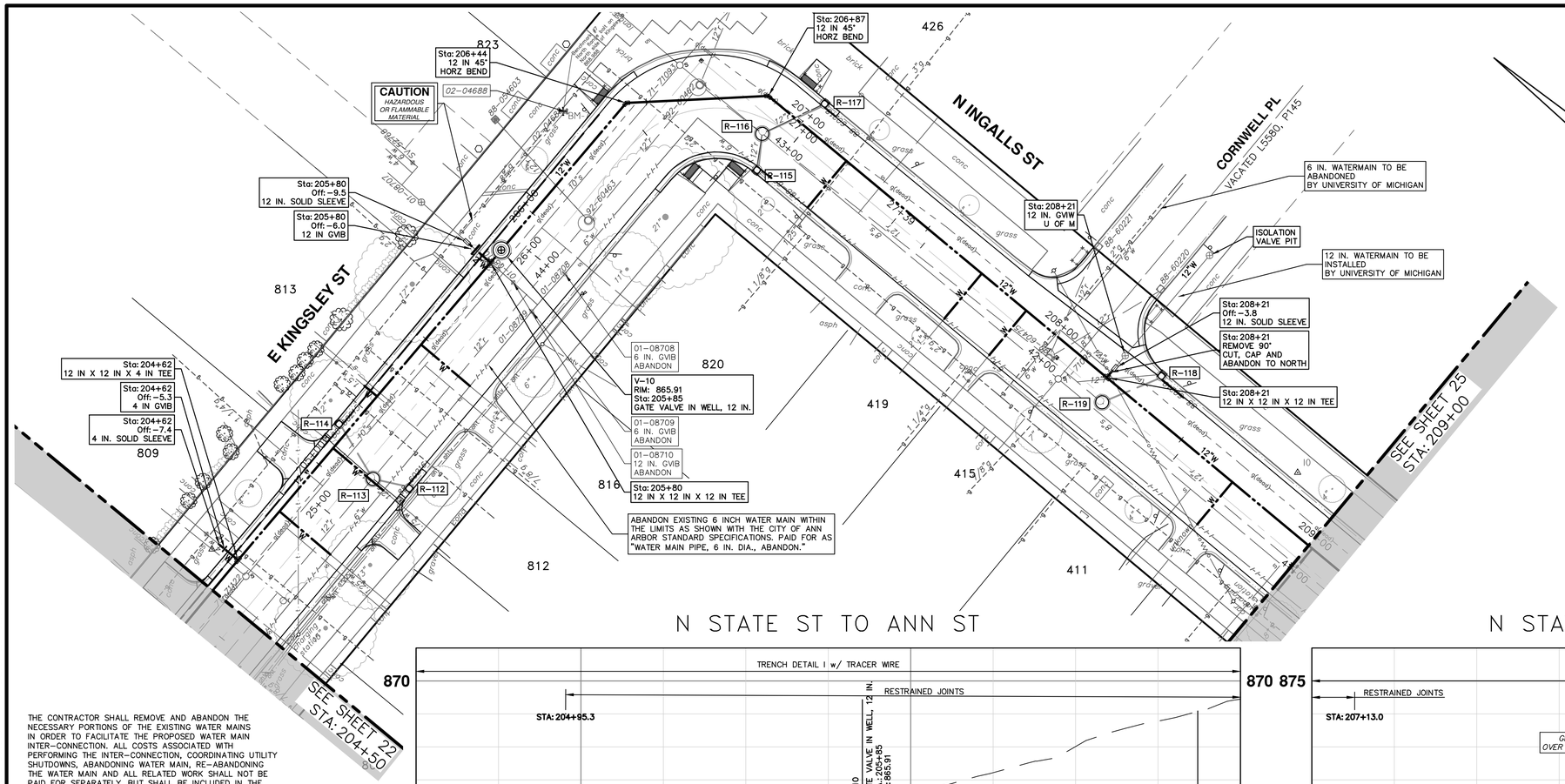

WATER MAIN STRUCTURES			
STRUCTURE	TYPE	STATION	RIM
V-10	Gate Valve in Well, 12 In.	205+85	865.91

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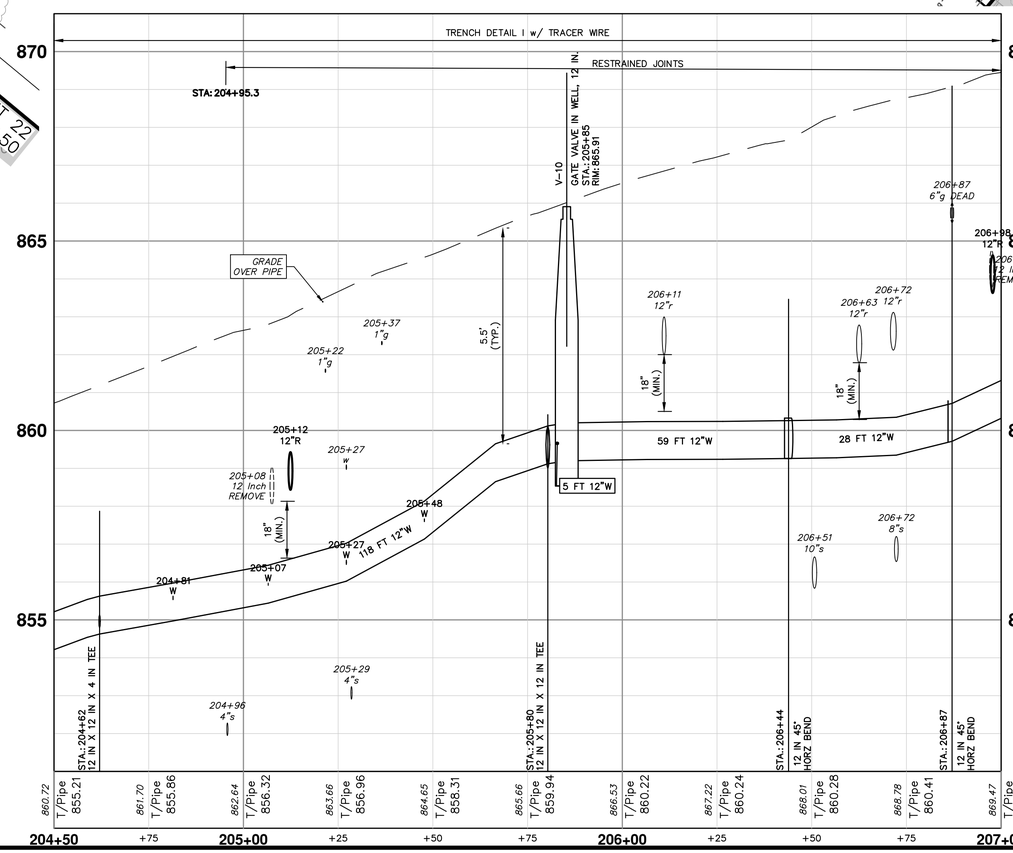

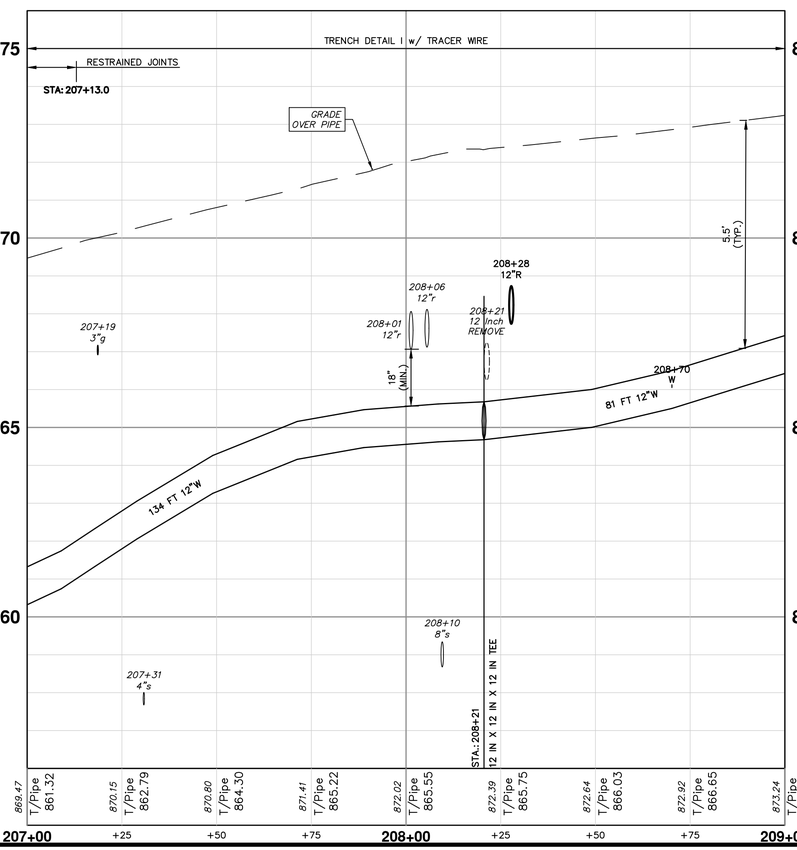

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INGALLS KINGSLEY WATER MAIN

WATER MAIN PLAN AND PROFILE

STA 204+50 - STA 209+00

SCALE PLAN: 1" = 20' PROFILE: 1" = 2'

DRAWING No. 2025012-24

SHEET No. 24 OF 51

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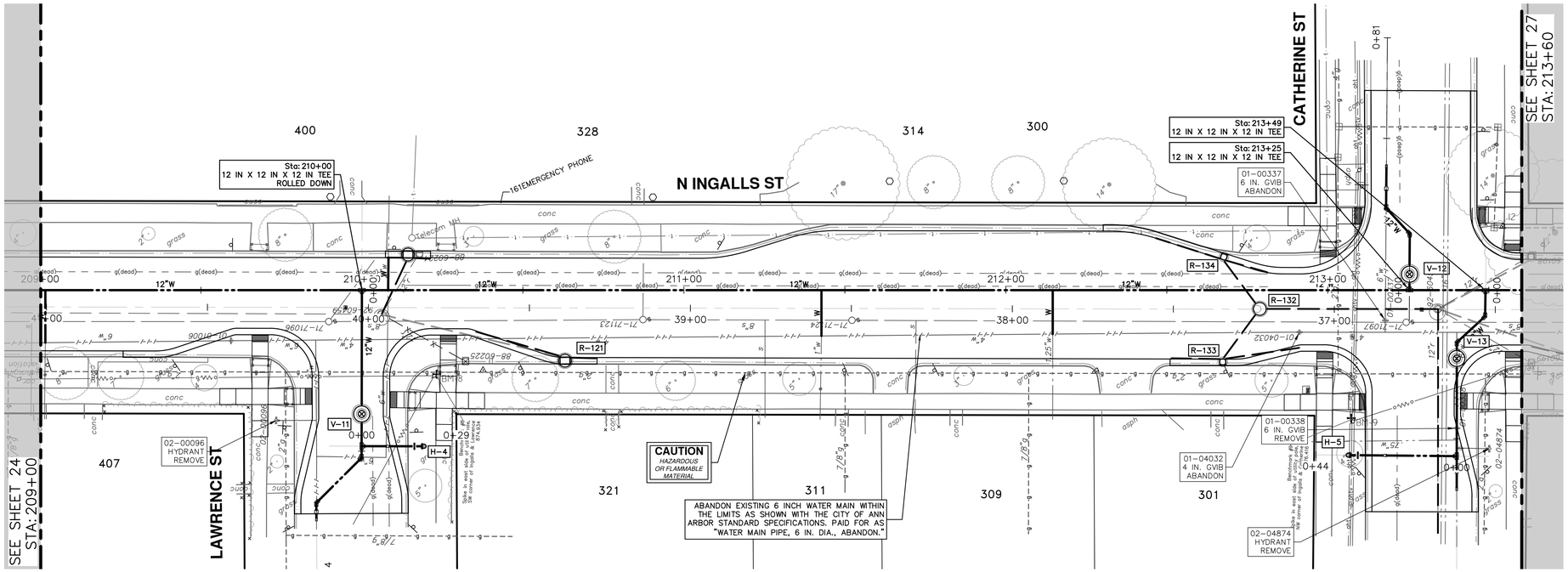

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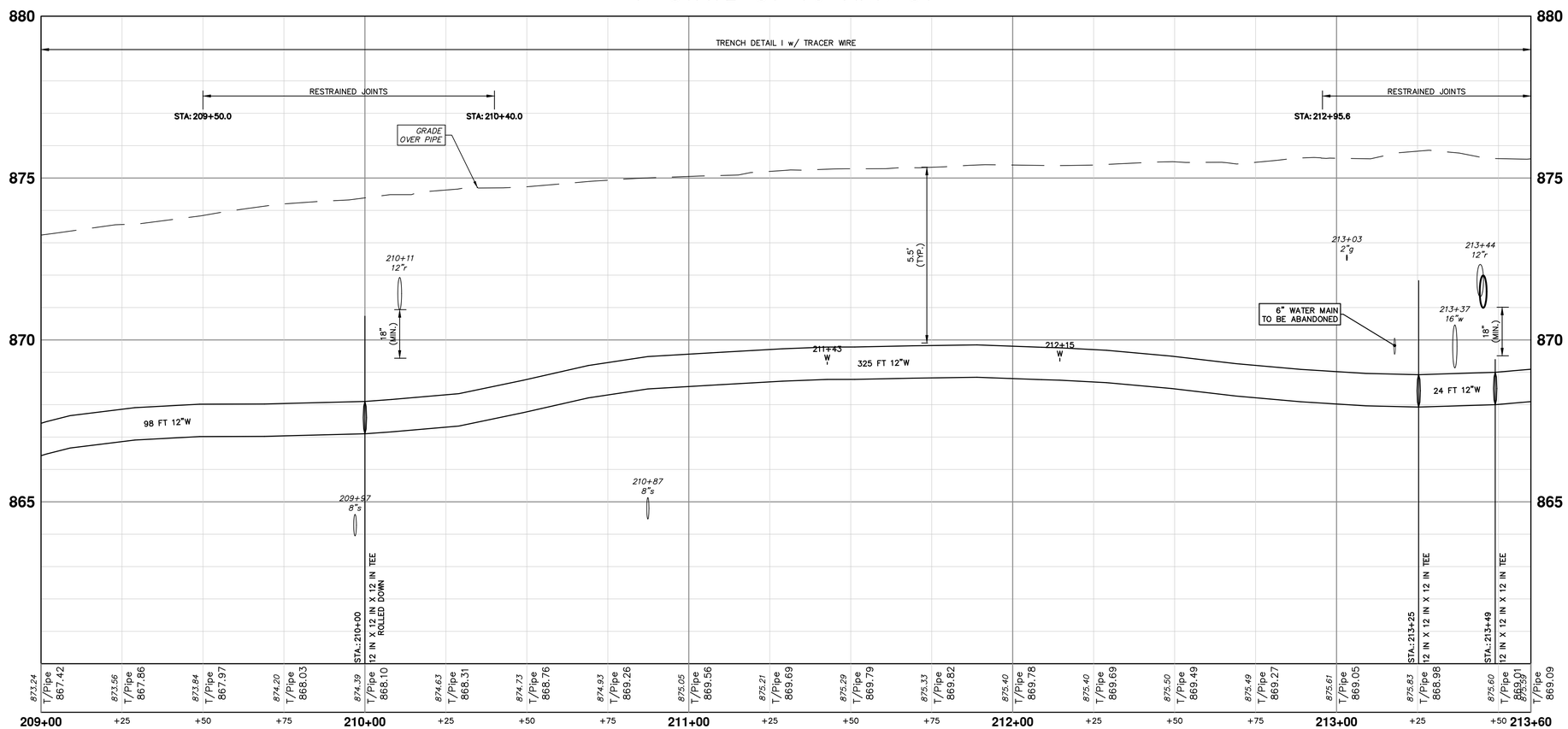
N STATE ST TO ANN ST



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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

INGALLS KINGSLEY WATER MAIN

WATER MAIN PLAN AND PROFILE

STA 209+00 - STA 213+60

SCALE PLAN: 1" = 20' PROFILE: 1" = 2'

DRAWING No. 2025012-25

SHEET No. 25 OF 51

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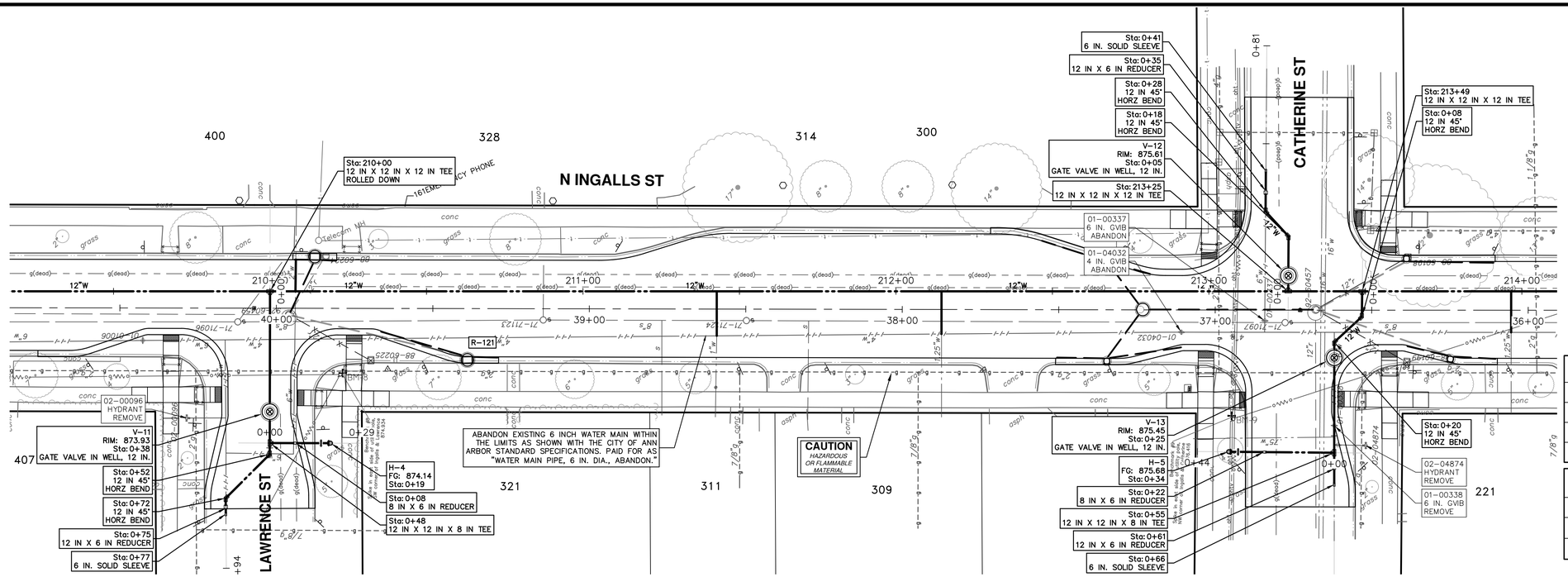

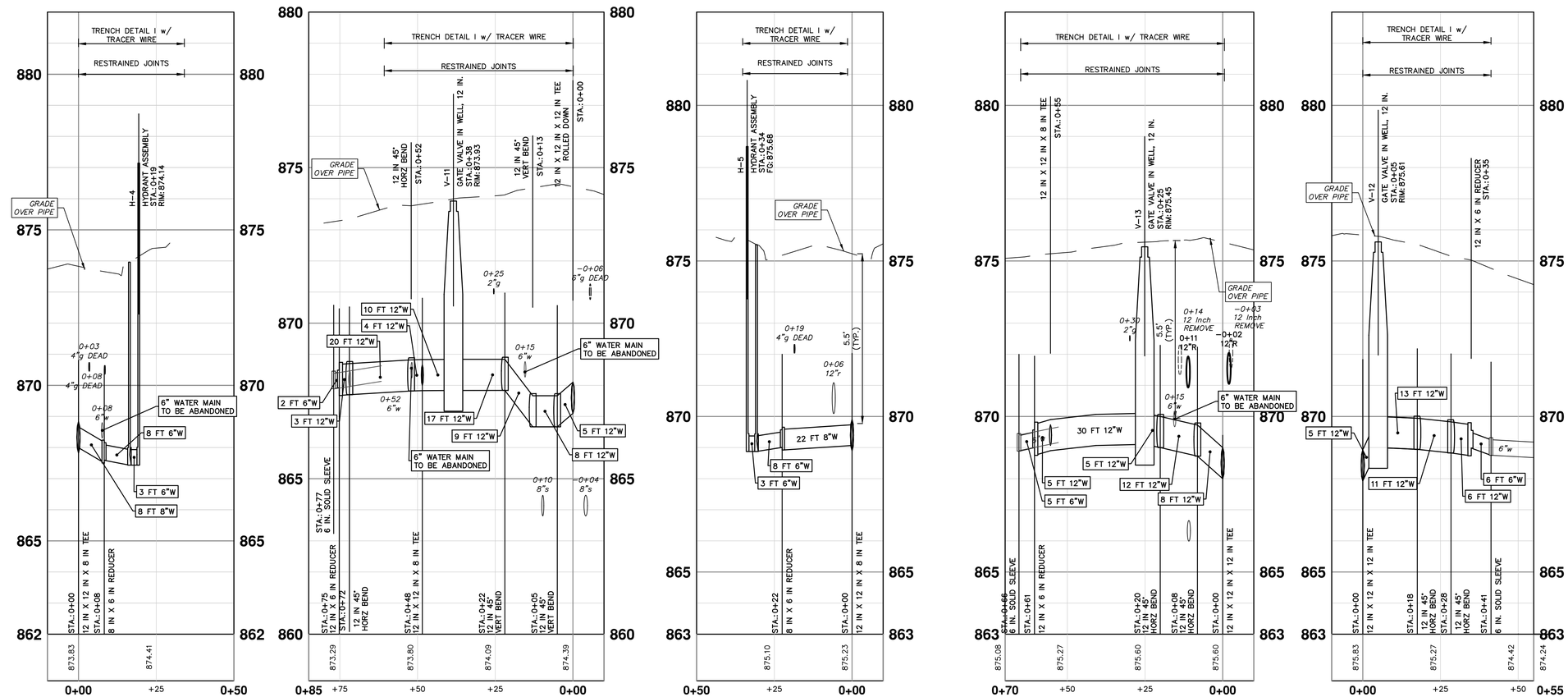

WATER MAIN STRUCTURES

STRUCTURE	TYPE	STATION	RIM
V-12	Gate Valve in Well, 12 In.	0+05	875.61
V-13	Gate Valve in Well, 12 In.	0+25	875.45
V-11	Gate Valve in Well, 12 In.	0+38	873.93

WATER HYDRANT(S)

NUMBER	TYPE	STATION	FG
H-4	Hydrant Assembly	0+19	874.14
H-5	Hydrant Assembly	0+34	875.68

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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

INGALLS KINGSLEY WATER MAIN

WATER MAIN PLAN AND PROFILE

H-4, H-5, LAWRENCE ST CONN CATHERINE ST CONNS

SCALE PLAN: 1" = 20' PROFILE: 1" = 2'

DRAWING No. 2025012-26

SHEET No. 26 OF 51

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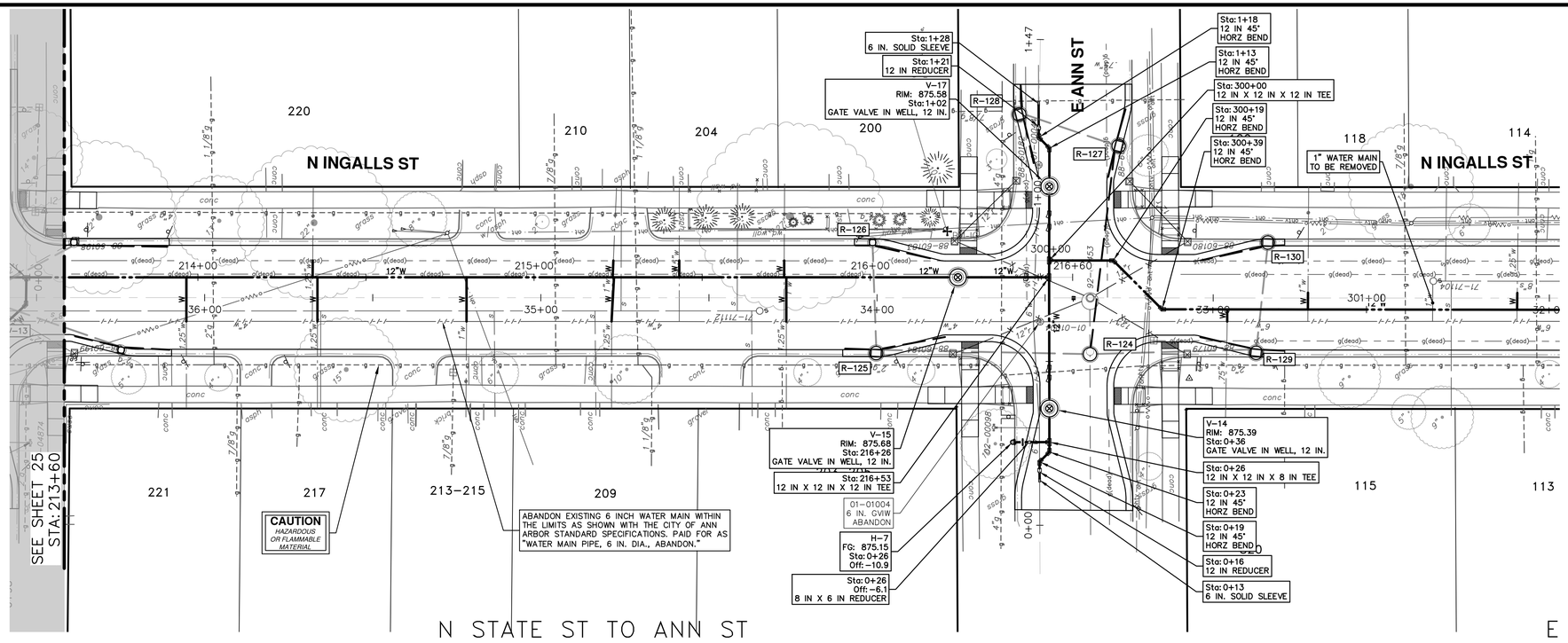
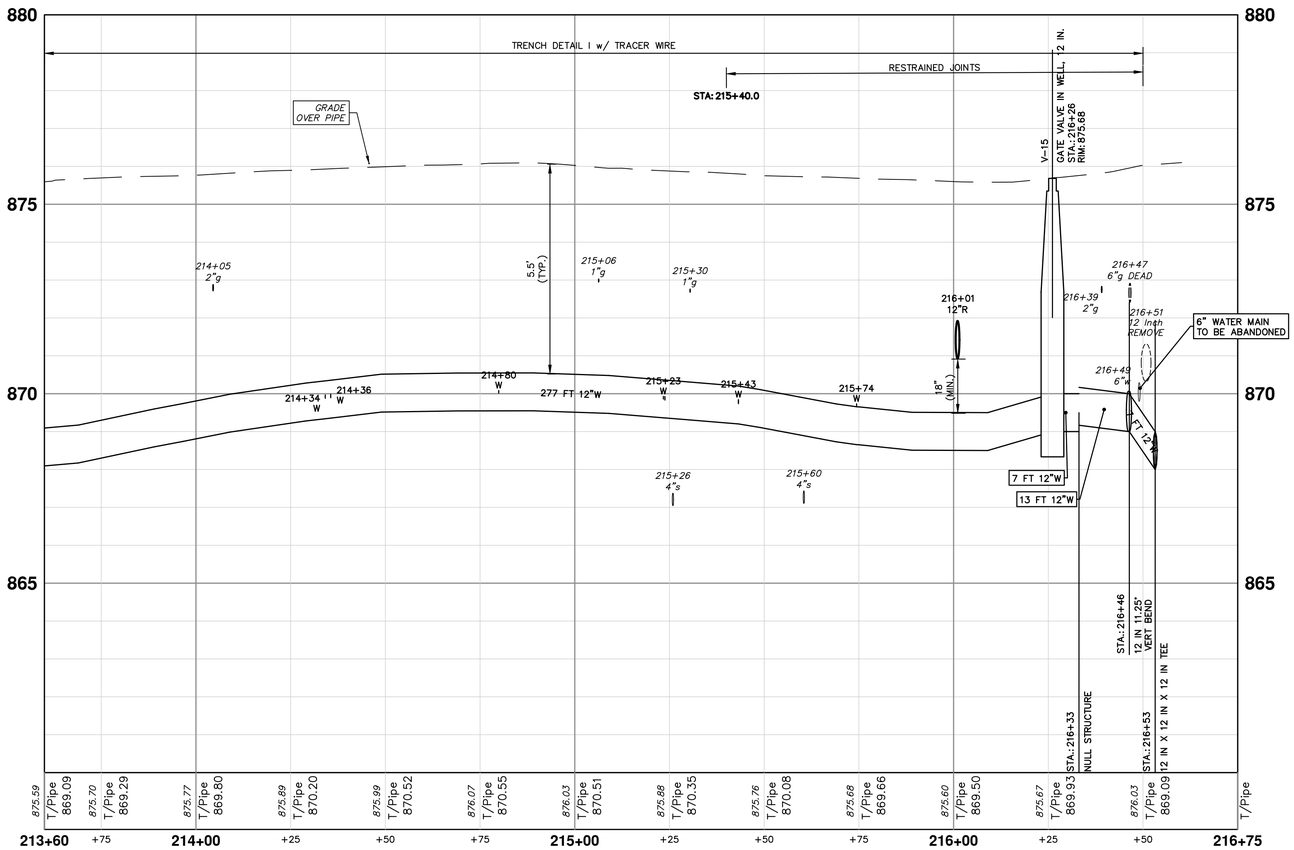
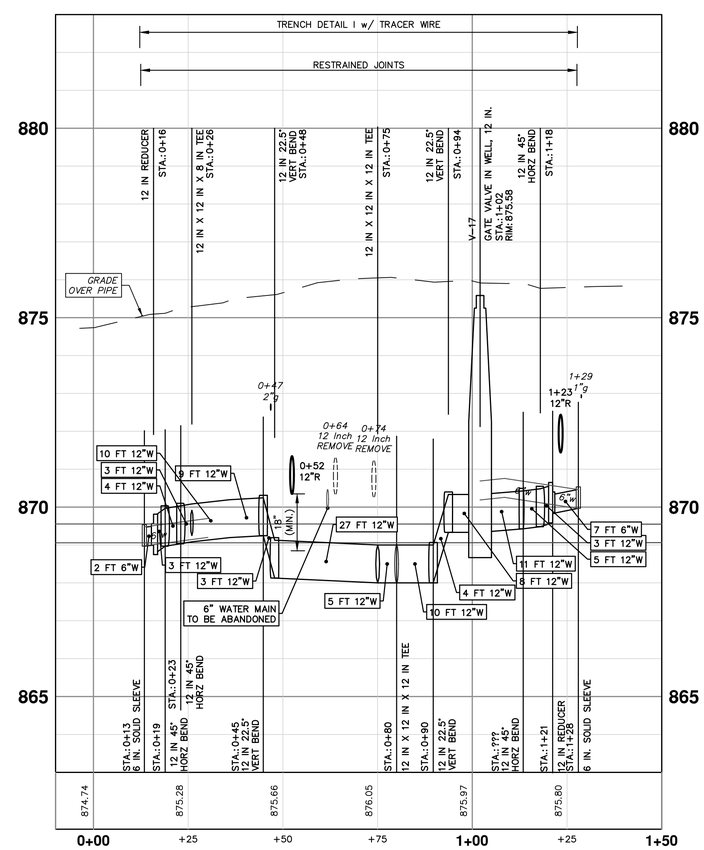


WATER MAIN STRUCTURES			
STRUCTURE	TYPE	STATION	RIM
V-14	Gate Valve in Well, 12 In.	0+36	875.39
V-17	Gate Valve in Well, 12 In.	1+02	875.58
V-15	Gate Valve in Well, 12 In.	216+26	875.68

THE CONTRACTOR SHALL REMOVE AND ABANDON THE NECESSARY PORTIONS OF THE EXISTING WATER MAINS IN ORDER TO FACILITATE THE PROPOSED WATER MAIN INTER-CONNECTION. ALL COSTS ASSOCIATED WITH PERFORMING THE INTER-CONNECTION, COORDINATING UTILITY SHUTDOWNS, ABANDONING WATER MAIN, RE-ABANDONING THE WATER MAIN AND ALL RELATED WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE RELATED ITEMS OF WORK.

WHERE EXISTING WATER MAIN IS EXPOSED FOR A CONNECTION OR APPURTENANCE INSTALLATION, THE CONTRACTOR SHALL INSTALL ONE SACRIFICIAL ANODE ON THE EXISTING PIPE. IF THE NEW FITTING IS INSTALLED IN-LINE WITH THE EXISTING MAIN, SUCH AS AT A CUT-IN TEE OR VALVE INSERTION, ONE ANODE SHALL BE INSTALLED ON THE EXISTING PIPE TO EACH SIDE OF THE NEW FITTING. EACH ANODE INSTALLED ON EXISTING WATER MAIN WILL BE PAID FOR AS "SACRIFICIAL ANODE, XX LB"





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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

INGALLS KINGSLEY WATER MAIN

WATER MAIN PLAN AND PROFILE

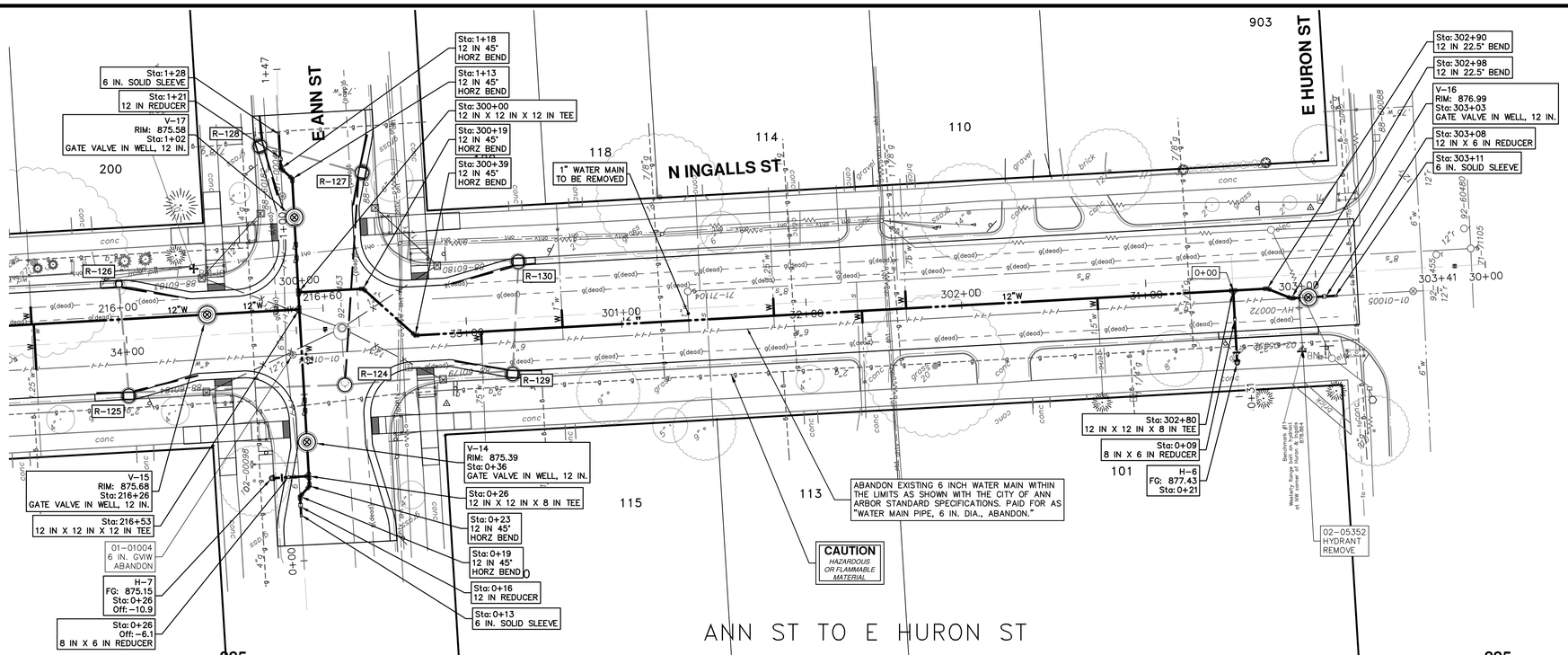
STA 213+60 - STA 216+53

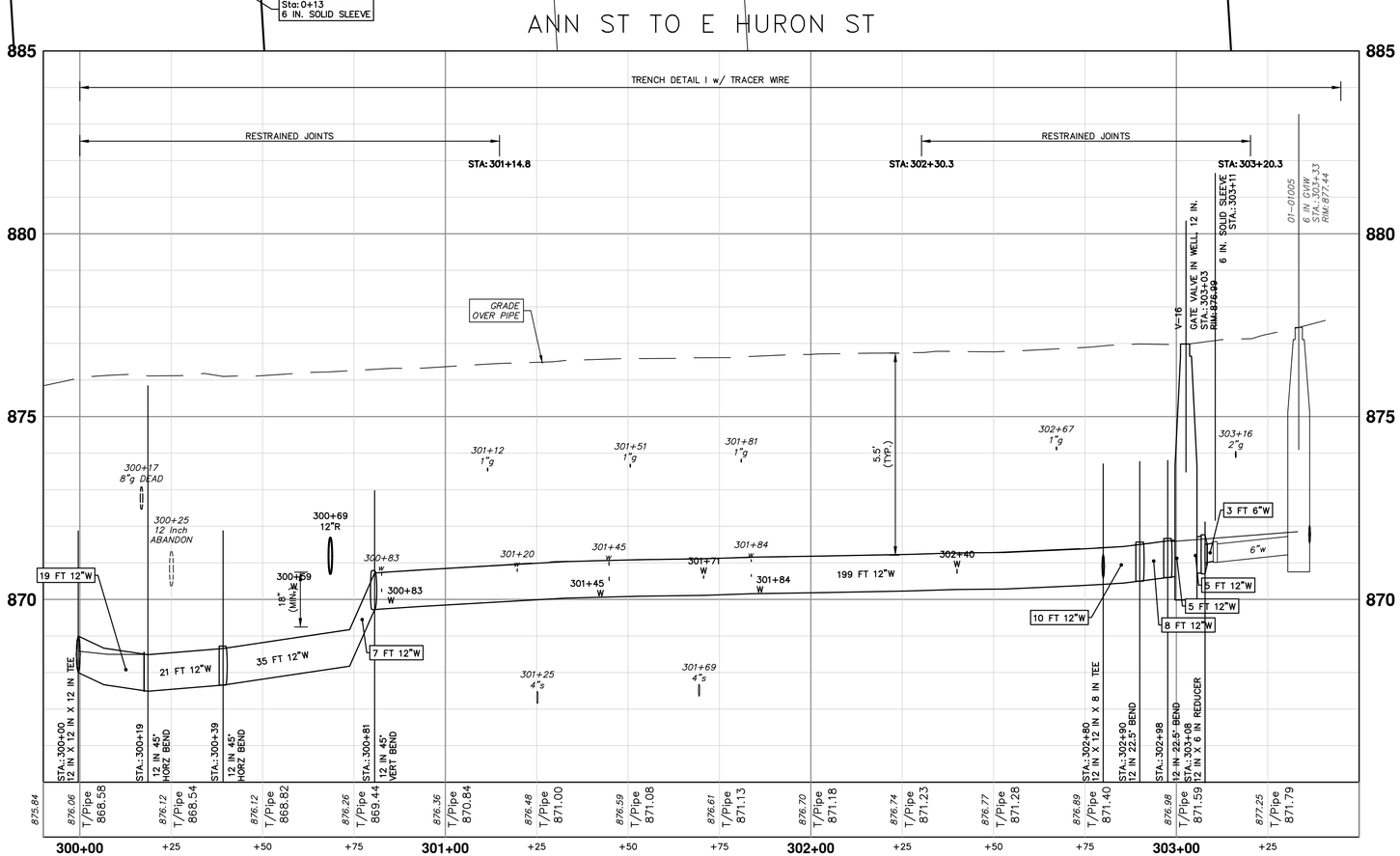
SCALE PLAN: 1" = 20' PROFILE: 1" = 2'

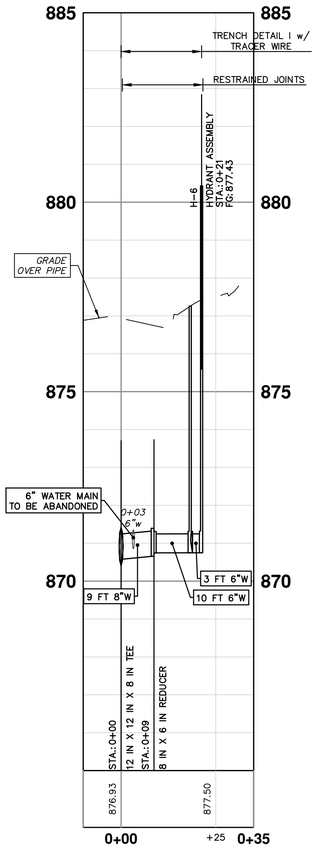
DRAWING No. 2025012-27

SHEET No. 27 OF 51

R:\2025012 Ingalls Kingsley WM Rsurf\Plan Production\2025012Wtr.dwg Dwg Created: 29-Jan-26 - _a2 standard bw.stb - Plot Date: 29-Jan-26







WATER MAIN STRUCTURES			
STRUCTURE	TYPE	STATION	RIM
V-16	Gate Valve in Well, 12 In.	303+03	876.99

WATER HYDRANT(S)			
NUMBER	TYPE	STATION	FG
H-6	Hydrant Assembly	0+21	877.43

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INGALLS KINGSLEY WATER MAIN

WATER MAIN PLAN AND PROFILE

STA 300+00 - STA 303+11

SCALE PLAN: 1" = 20' PROFILE: 1" = 2'

DRAWING No. 2025012-28

SHEET No. 28 OF 51

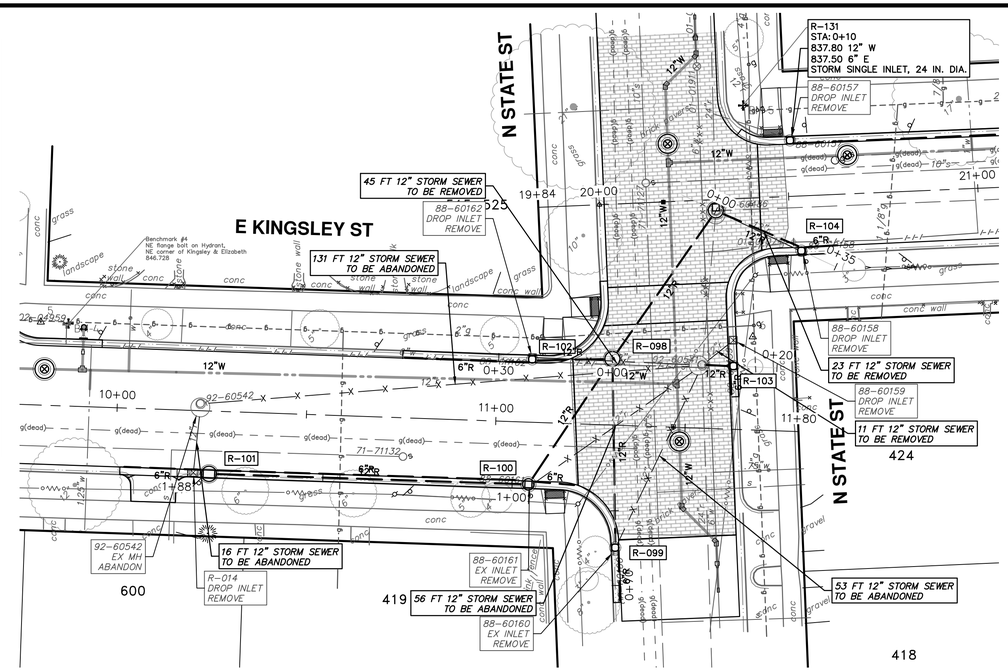
R:\2025012 Ingalls Kingsley WM Rsurf\Plan Production\2025012Wtr.dwg Dwg Created: 29-Jan-26 - _a2 standard bw.stb - Plot Date: 29-Jan-26

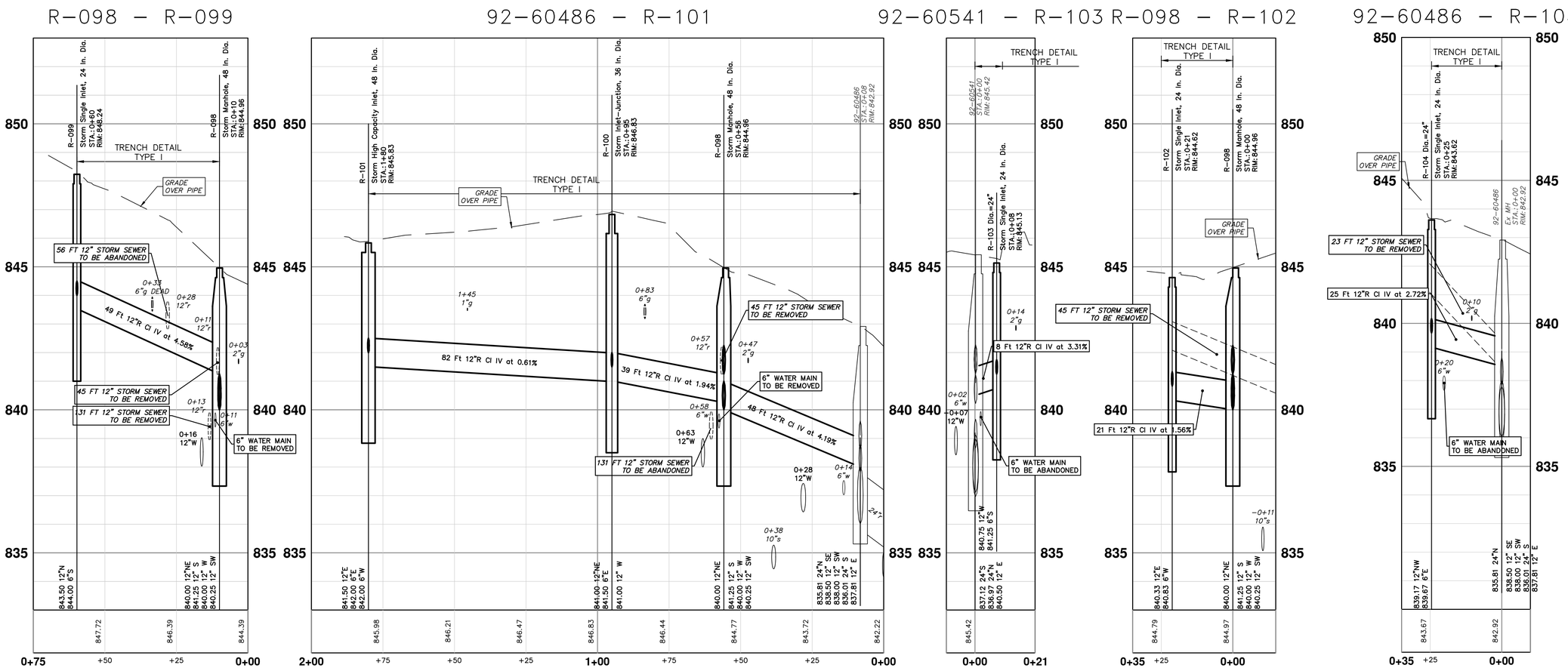
STORM SEWER STRUCTURE TABLE

STRUCTURE	UTILITY STATION	TYPE	RIM	INVERTS	DEPTH (Feet)	SUMP
r–92–60486	0+00	Storm Manhole, 48 In. Dia.	842.91	12" SE 838.50 12" SW 838.00 24" S 836.01 12" E 837.81 24" N 835.81	7.10	0'
r–92–60541	0+00	Ex MH	841.91	12" E 840.50 24" S 837.12 24" N 836.97	???	0'
R–098	0+56	Storm Manhole, 48 In. Dia.	844.96	12" S 841.25 12" W 840.00 12" SW 840.25 12" NE 840.00	6.96	2'
R–099	0+60	Storm Single Inlet, 24 In. Dia.	848.24	12" N 843.50 6" S 844.00	6.74	2'
R–100	0+95	Storm Inlet–Junction, 36 In. Dia.	846.83	12" W 841.00 12" NE 841.00 6" E 841.50	7.83	2'
R–101	1+80	Storm High Capacity Inlet, 48 In. Dia.	845.83	12" E 841.50 6" E 842.00 6" W 842.00	6.33	2'
R–102	0+21	Storm Single Inlet, 24 In. Dia.	844.62	12" E 840.33 6" W 840.83	6.29	2'
R–103	0+08	Storm Single Inlet, 24 In. Dia.	845.13	12" W 840.75 6" S 841.25	6.38	2'
R–104	0+25	Storm Single Inlet, 24 In. Dia.	843.62	12" NW 839.17 6" E 839.67	6.45	2'
R–131	0+10	Storm Single Inlet, 24 In. Dia.	841.86	12" W 837.80 6" E 837.50	6.36	2'

EXISTING STORM SEWER STRUCTURE REMOVAL TABLE

STRUCTURE	DEPTH (Feet)	NOTES
r–92–60541	???	Ex MH
r–014	2.71	Drop Inlet REMOVE
88–60157	4.07	Drop Inlet REMOVE
88–60158	2.59	Drop Inlet REMOVE
88–60162	2.69	Drop Inlet REMOVE
88–60159	2.89	Drop Inlet REMOVE
88–60161	2.66	Ex Inlet REMOVE
88–60160	3.54	Ex Inlet REMOVE
92–60542	5.59	Ex MH ABANDON





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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

INGALLS KINGSLEY WATER MAIN

STORM SEWER PLAN AND PROFILE

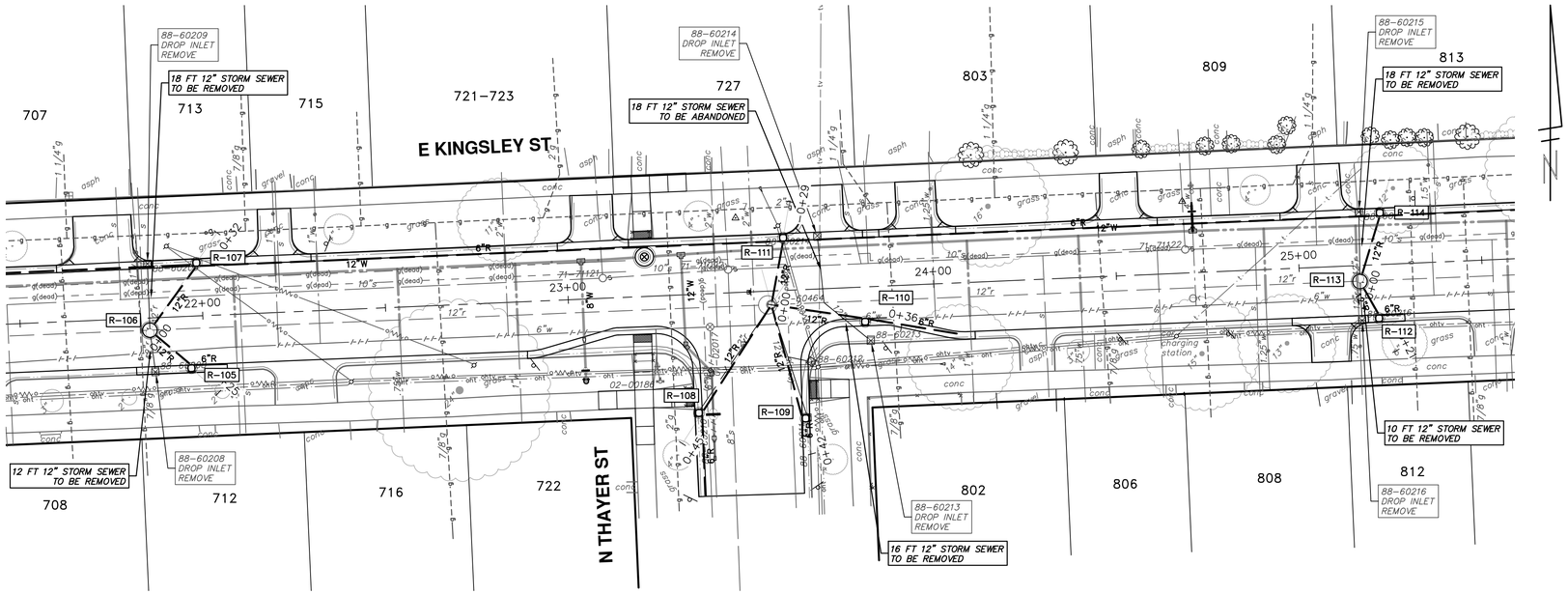
R-098 - R-104, R-131

SCALE : 1" = 20'
PROFILE: 1" = 2'

DRAWING No.
2025012-29

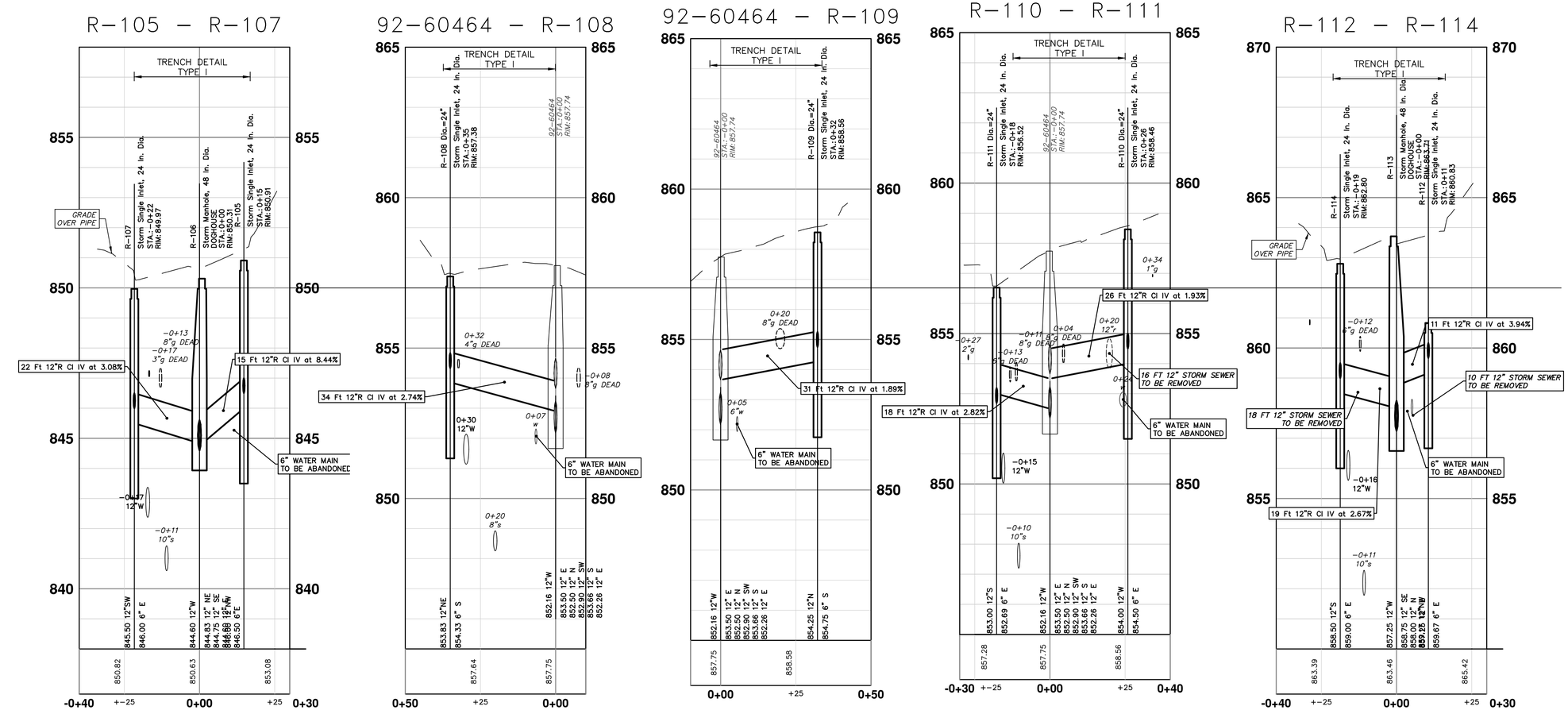
SHEET No.
29 OF 51

R:\2025012 Ingalls Kingsley WM Rsurf\Plan Production\2025012Strm.dwg Dwg Created: 28–Jan–26 – _a2 standard bw.stb – Plot Date: 29–Jan–26



STORM SEWER STRUCTURE TABLE

STRUCTURE	UTILITY STATION	TYPE	RIM	INVERTS	DEPTH (Feet)	SUMP
r–92–60464	0+00	Ex MH	854.97	12" E 853.50 12" N 852.50 12" SW 852.90 12" S 853.66 12" E 852.26 12" W 852.16	???	0'
R–105	0+15	Storm Single Inlet, 24 In. Dia.	850.91	12" NW 846.00 6" E 846.50	6.91	2'
R–106	0+00	Storm Manhole, 48 In. Dia. DOGHOUSE	850.31	12" NE 844.83 12" SE 844.75 12" E 844.60 12" W 844.60	5.71	0'
R–107	0+22	Storm Single Inlet, 24 In. Dia.	849.97	6" E 846.00 12" SW 845.50	6.47	2'
R–108	0+35	Storm Single Inlet, 24 In. Dia.	857.38	6" S 854.33 12" NE 853.83	5.55	2'
R–109	0+32	Storm Single Inlet, 24 In. Dia.	858.56	6" S 854.75 12" N 854.25	6.31	2'
R–110	0+26	Storm Single Inlet, 24 In. Dia.	858.46	6" E 854.50 12" W 854.00	6.46	2'
R–111	0+18	Storm Single Inlet, 24 In. Dia.	856.52	6" E 852.69 12" S 853.00	5.83	2'
R–112	0+11	Storm Single Inlet, 24 In. Dia.	860.83	6" E 859.67 12" NW 859.17	3.67	2'
R–113	0+00	Storm Manhole, 48 In. Dia. DOGHOUSE	863.71	12" SE 858.75 12" N 858.00 12" E 857.25 12" W 857.25	6.47	0'
R–114	0+19	Storm Single Inlet, 24 In. Dia.	862.80	6" E 859.00 12" S 858.50	6.30	2'



EXISTING STORM SEWER STRUCTURE REMOVAL TABLE

STRUCTURE	DEPTH (Feet)	NOTES
88–60211	3.05	Ex Inlet REMOVE
88–60215	4.58	Drop Inlet REMOVE
88–60216	6.48	Drop Inlet REMOVE
88–60209	3.34	Drop Inlet REMOVE
88–60208	3.18	Drop Inlet REMOVE
88–60214	2.49	Drop Inlet REMOVE
88–60210	3.10	Ex Inlet REMOVE
88–60212	4.45	Ex Inlet REMOVE
88–60213	3.22	Drop Inlet REMOVE

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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

INGALLS KINGSLEY WATER MAIN

STORM SEWER PLAN AND PROFILE

R-105 - R-114

SCALE : 1" = 20'

PROFILE: 1" = 2'

DRAWING No. 2025012-30

SHEET No. 30 OF 51

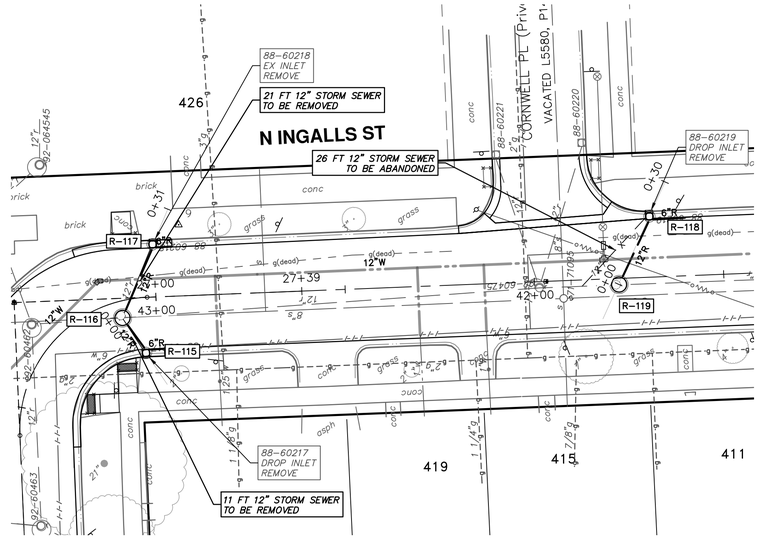
R: \2025012 Ingalls Kingsley WM Rsurf\Plan Production\2025012Strm.dwg Dwg Created: 28–Jan–26 – _a2 standard bw.stb – Plot Date: 29–Jan–26

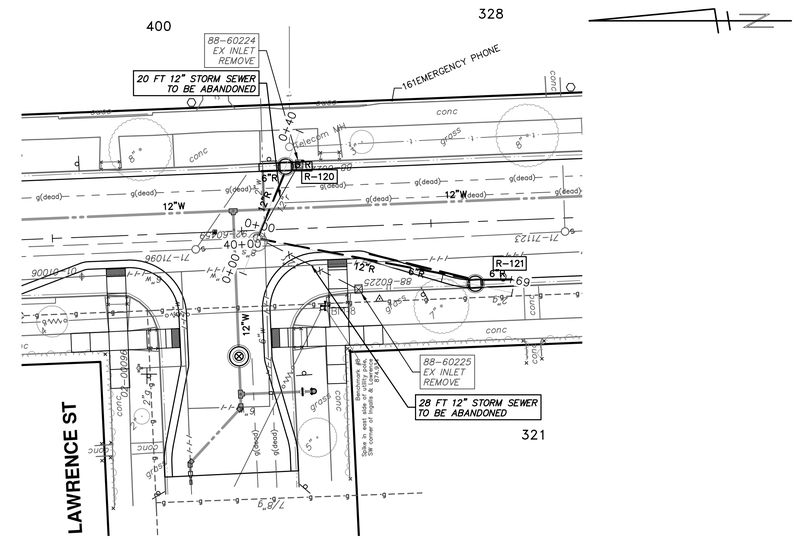
STORM SEWER STRUCTURE TABLE

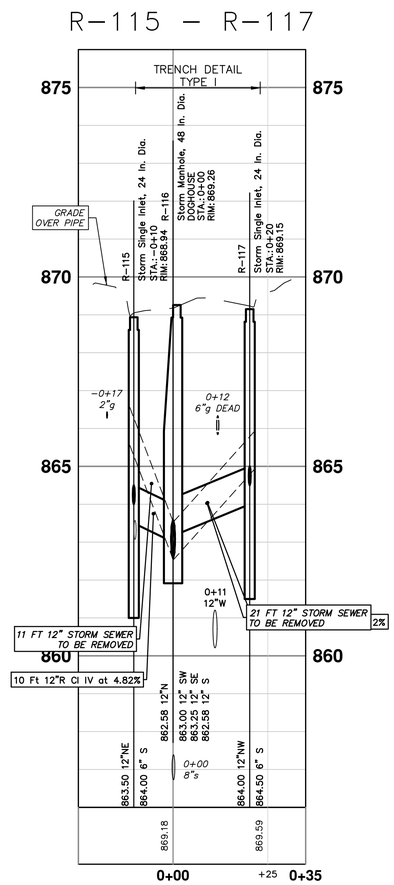
STRUCTURE	UTILITY STATION	TYPE	RIM	INVERTS	DEPTH (Feet)	SUMP
R-115	0+10	Storm Single Inlet, 24 In. Dia.	868.94	6" S 864.00 12" NE 863.50	7.44	2'
R-116	0+00	Storm Manhole, 48 In. Dia. DOGHOUSE	869.26	12" SW 863.00 12" SE 863.25 12" S 862.58 12" N 862.58	6.68	0'
R-117	0+20	Storm Single Inlet, 24 In. Dia.	869.15	6" S 864.50 12" NW 864.00	7.15	2'
R-118	0+19	Storm Single Inlet, 24 In. Dia.	872.02	6" S 868.33 12" NW 867.83	6.19	2'
R-119	0+00	Storm Manhole, 48 In. Dia.	872.23	12" SE 867.67 12" S 865.60 12" N 865.60	8.63	2'
R-120	???	Storm High Capacity Inlet, 48 In. Dia.	873.93	6" N 870.50 6" S 870.50 12" NW 870.00	5.93	2'
R-121	0+59	Storm High Capacity Inlet, 48 In. Dia.	874.09	6" S 870.33 6" N 870.33 12" N 870.44	5.76	2'

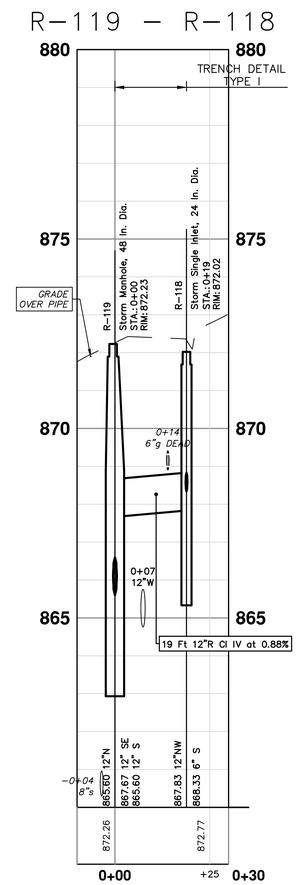
EXISTING STORM SEWER STRUCTURE REMOVAL TABLE

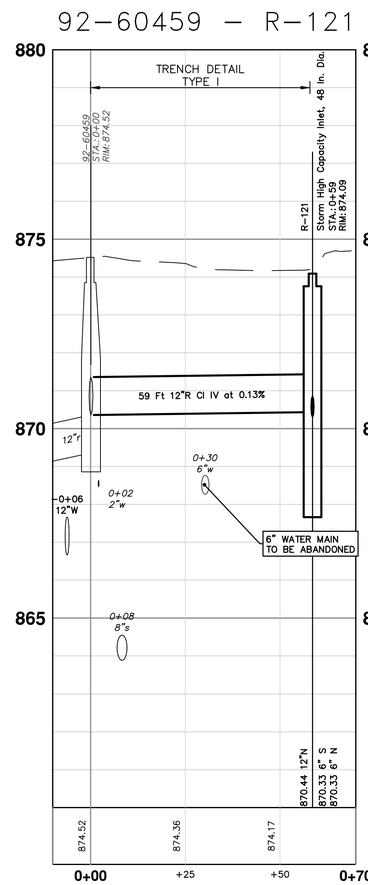
STRUCTURE	DEPTH (Feet)	NOTES
88-60219	4.27	Drop Inlet REMOVE
88-60225	2.86	Ex Inlet REMOVE
88-60224	2.01	Ex Inlet REMOVE
88-60217	3.48	Drop Inlet REMOVE
88-60218	4.36	Ex Inlet REMOVE

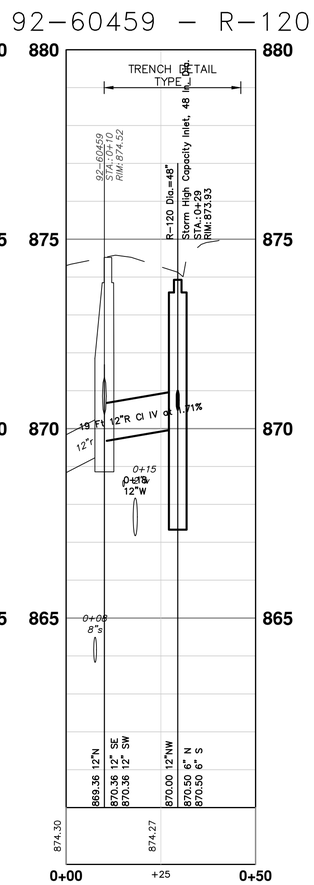












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INGALLS KINGSLEY WATER MAIN

STORM SEWER PLAN AND PROFILE

R-115 - R-121

SCALE : 1" = 20' PROFILE: 1" = 2'

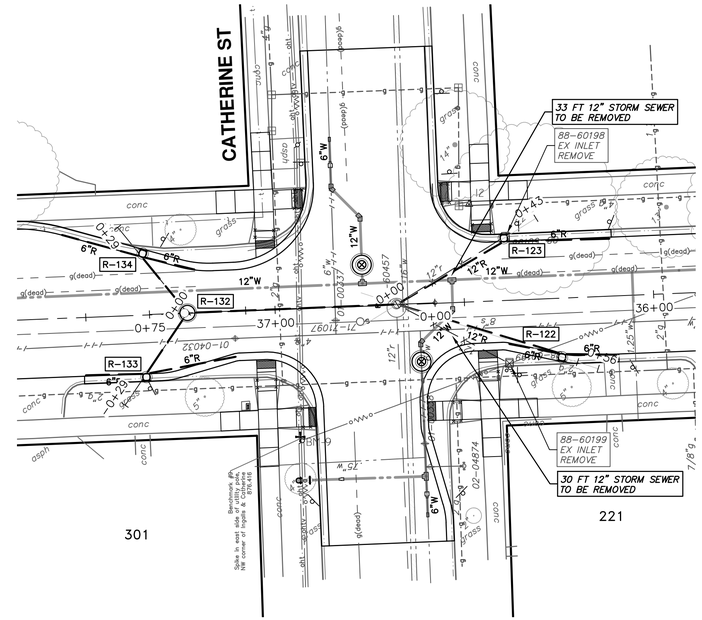
DRAWING No. 2025012-31

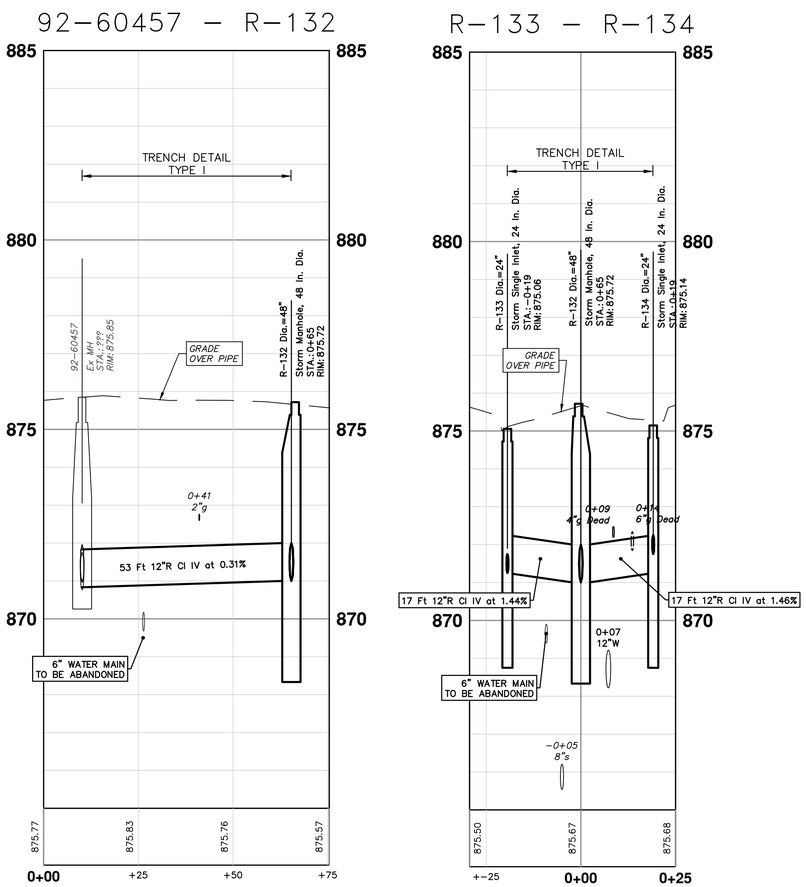
SHEET No. 31 OF 51

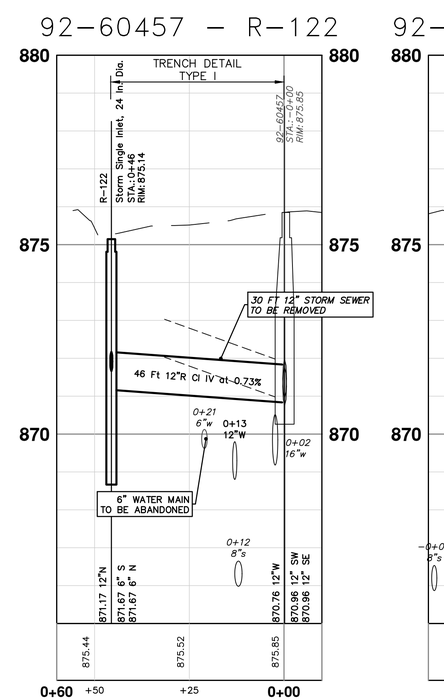
R:\2025012 Ingalls Kingsley WM Rsurf\Plan Production\2025012Strm.dwg Dwg Created: 28-Jan-26 — a2 standard bw.stb — Plot Date: 29-Jan-26

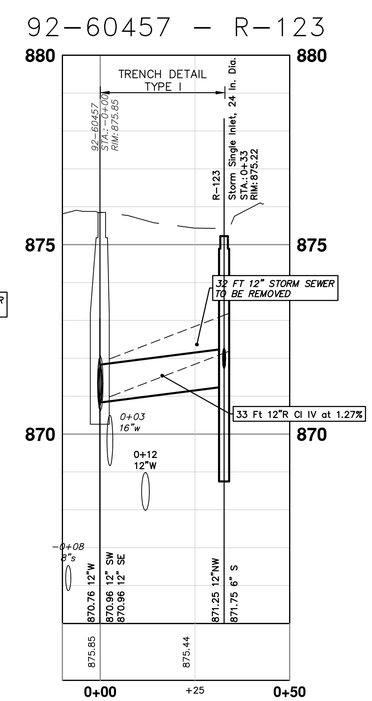
STORM SEWER STRUCTURE TABLE						
STRUCTURE	UTILITY STATION	TYPE	RIM	INVERTS	DEPTH (Feet)	SUMP
R-122	0+46	Storm Single Inlet, 24 In. Dia.	875.14	6" S 871.67 6" N 871.67 12" N 871.17	5.98	2'
R-123	0+33	Storm Single Inlet, 24 In. Dia.	875.22	6" S 871.75 12" NW 871.25	5.97	2'
R-132	0+65	Storm Manhole, 48 In. Dia.	875.72	12" NW 871.00 12" NE 871.00 12" S 871.00	6.72	2'
R-133	0+19	Storm Single Inlet, 24 In. Dia.	875.06	6" N 871.25 6" S 871.25 12" SE 871.25	5.81	2'
R-134	0+19	Storm Single Inlet, 24 In. Dia.	875.14	6" S 871.75 6" N 871.75 12" SW 871.25	5.89	2'

EXISTING STORM SEWER STRUCTURE REMOVAL TABLE		
STRUCTURE	DEPTH (Feet)	NOTES
88-60199	3.28	Ex Inlet REMOVE
88-60198	3.28	Ex Inlet REMOVE









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INGALLS KINGSLEY WATER MAIN

STORM SEWER PLAN AND PROFILE

R-122 - R-123, R-132 - R-134

SCALE : 1" = 20' PROFILE: 1" = 2'

DRAWING No. 2025012-32

SHEET No. 32 OF 51

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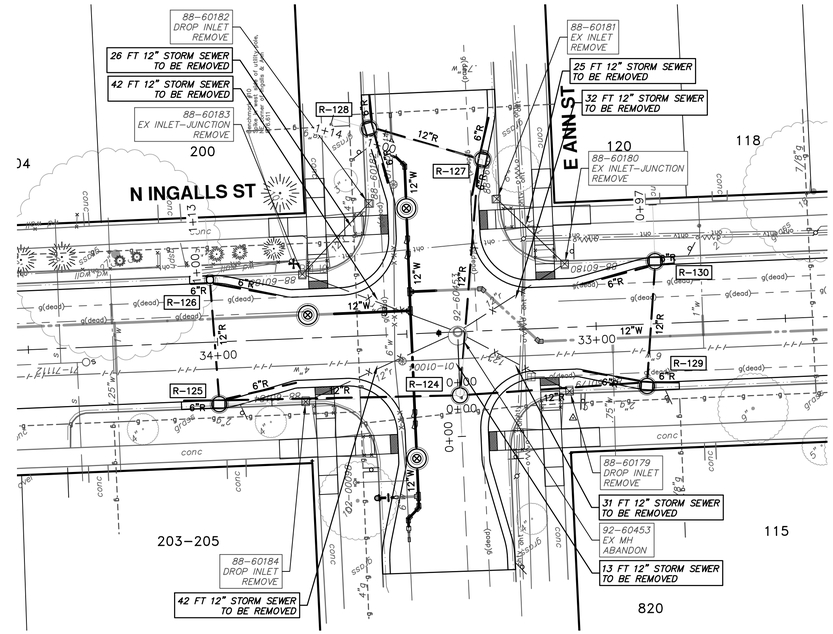
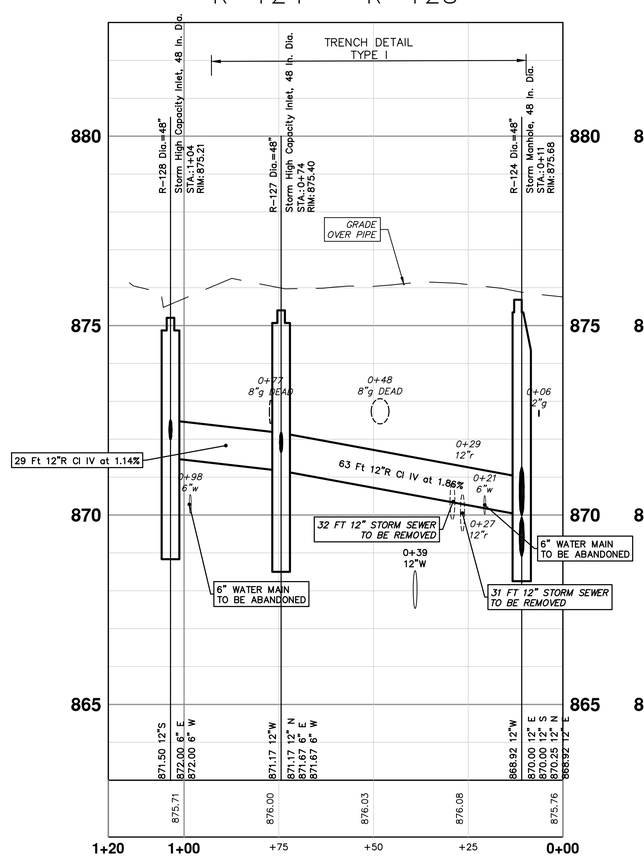
EXISTING STORM SEWER STRUCTURE REMOVAL TABLE		
STRUCTURE	DEPTH (Feet)	NOTES
88–60184	3.50	Drop Inlet REMOVE
88–60182	2.53	Drop Inlet REMOVE
88–60183	4.34	Ex Inlet–Junction REMOVE
88–60180	4.29	Ex Inlet–Junction REMOVE
88–60179	3.97	Drop Inlet REMOVE
88–60181	2.49	Ex Inlet REMOVE

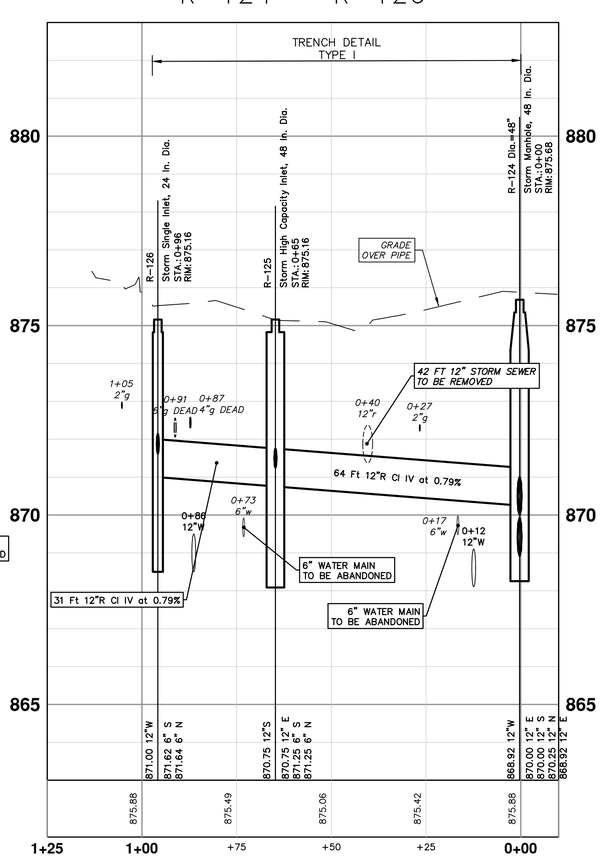
STORM SEWER STRUCTURE TABLE						
STRUCTURE	UTILITY STATION	TYPE	RIM	INVERTS	DEPTH (Feet)	SUMP
R–124	0+11	Storm Manhole, 48 In. Dia.	875.68	12" E 870.00 12" S 870.00 12" N 870.25 12" E 868.92 12" W 868.92	6.76	0'
R–125	0+65	Storm High Capacity Inlet, 48 In. Dia.	875.16	12" E 870.75 6" S 871.25 6" N 871.25 12" S 870.75	6.41	2'
R–126	0+96	Storm Single Inlet, 24 In. Dia.	875.16	6" S 871.62 6" N 871.64 12" W 871.00	6.16	2'
R–127	0+74	Storm High Capacity Inlet, 48 In. Dia.	875.40	12" N 871.17 6" E 871.67 6" W 871.67 12" W 871.17	6.24	2'
R–128	1+04	Storm High Capacity Inlet, 48 In. Dia.	875.21	6" E 872.00 6" W 872.00 12" S 871.50	5.71	2'
R–129	0+50	Storm High Capacity Inlet, 48 In. Dia.	875.70	12" E 870.50 6" S 871.00 6" N 871.00 12" N 870.50	7.20	2'
R–130	0+81	Storm High Capacity Inlet, 48 In. Dia.	875.78	6" S 871.50 6" N 871.50 12" W 871.00	6.78	2'



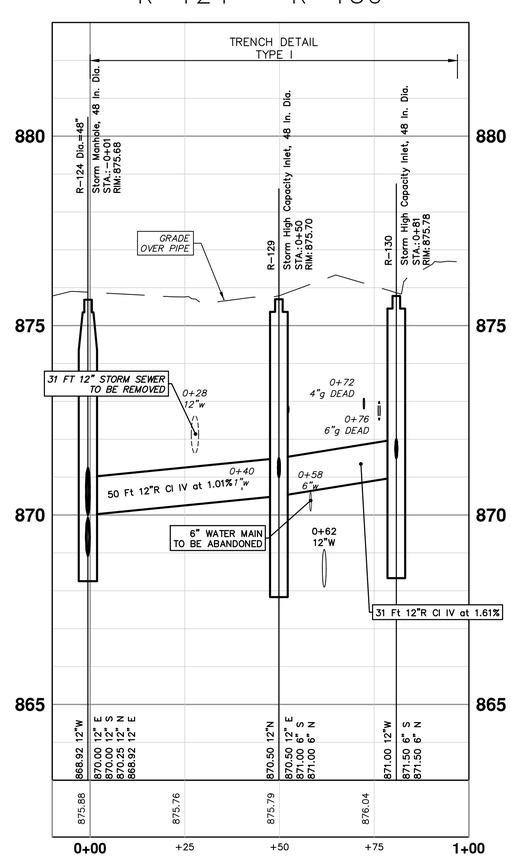
R–124 – R–128



R–124 – R–126



R–124 – R–130



R:\2025012 Ingalls Kingsley WM Rsurf\Plan Production\2025012Strm.dwg Dwg Created: 28–Jan–26 – _a2 standard bw.stb – Plot Date: 29–Jan–26

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00	OUT FOR BID	01–30–26	A2D	IVK

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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

INGALLS KINGSLEY WATER MAIN

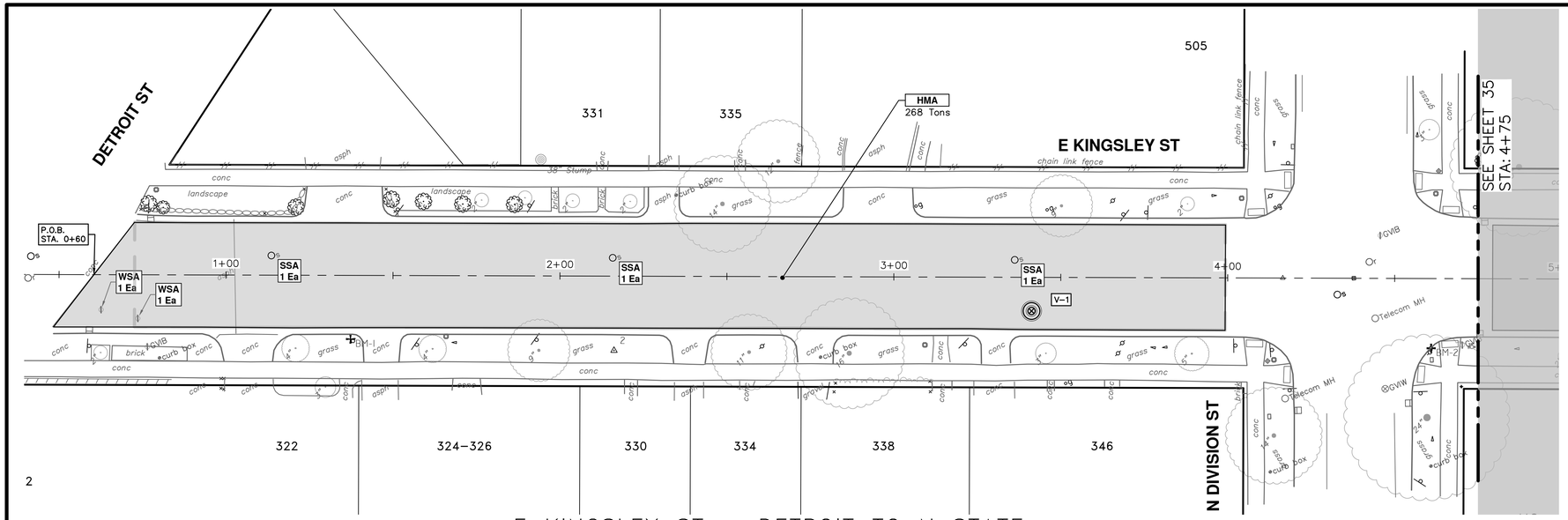
STORM SEWER PLAN AND PROFILE

R-124 - R-130

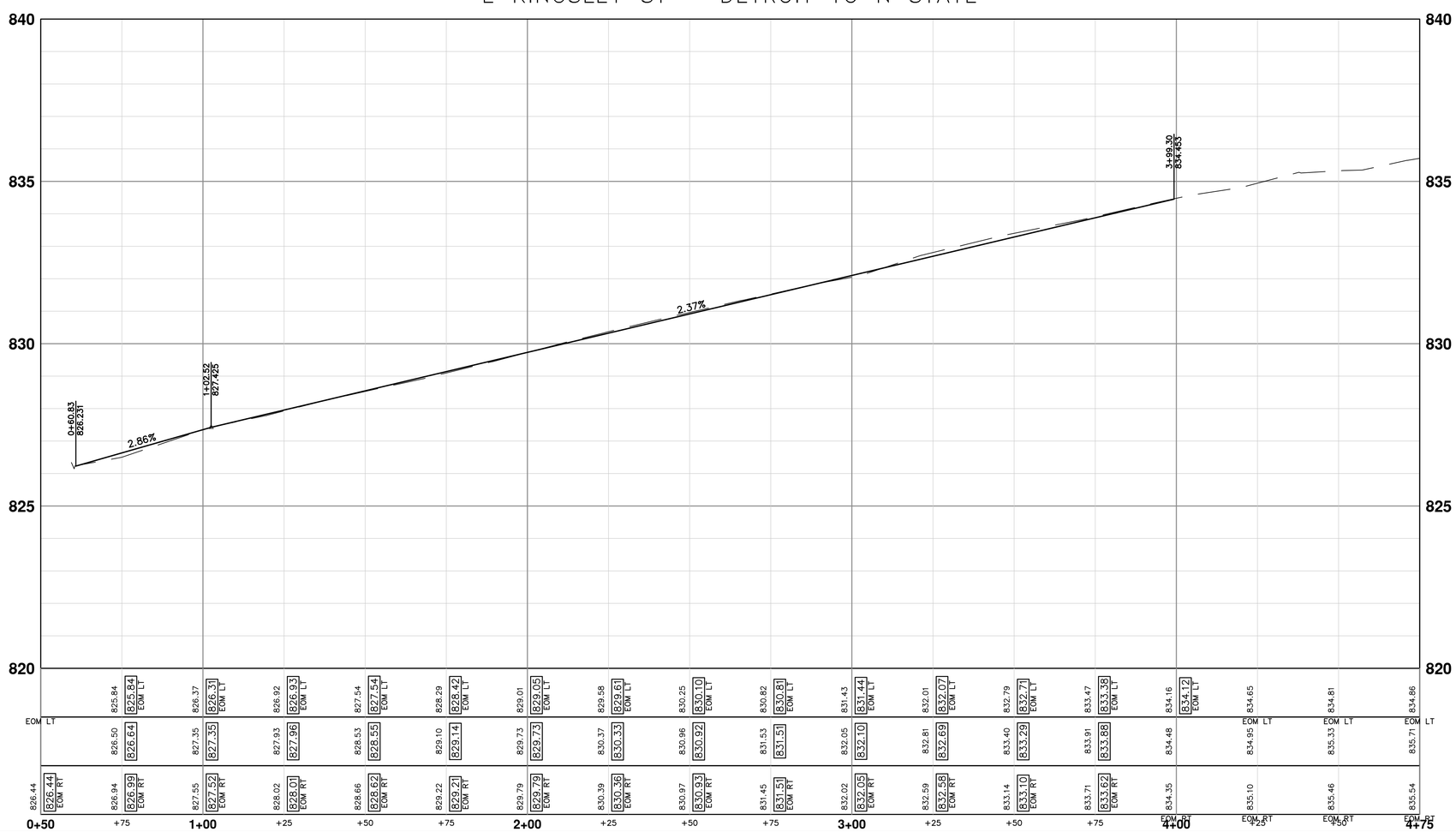
SCALE : 1" = 20' PROFILE: 1" = 2'

DRAWING No. 2025012-33

SHEET No. 33 OF 51



E KINGSLEY ST – DETROIT TO N STATE



CONSTRUCTION KEY

KEY	DESCRIPTION
HMA	HMA; place material in lifts according to the Typical Section and as directed by the Engineer.
BRK	Brick Pavers, Sidewalk, Rem and Reinstall
HMA-APP	HMA Approach
HP	Hand Patching
CG	Conc, Curb or Curb & Gutter, All Types
DO-M	Conc, Driveway Opening, Type M
DO-MHE	Conc, Driveway Opening, Type M, High Early
DG-6	Driveway gravel, Aggregate Base, 6 inch 21AA limestone, C.I.P.
MG-D	Machine Grading, Driveway
SW-4	Conc, Sidewalk, 4 In.
SW-R6	Conc, Sidewalk, Drive Approach, or Ramp, 6 In.
SW-6HE	Conc, Sidewalk, Drive Approach, or Ramp, 6 In., High Early
SW-8	Conc, Sidewalk, Drive Approach, or Ramp, 8 In.
DWS	Detectable Warning Surface
BOA	By Others, Adjust
MBA	Monument Box, Adjust
WBA	Gate Box, Adjust
RSA	Storm Structure Cover, Adjust
SSA	Sanitary Structure Cover, Adjust
WSA	Water Structure Cover, Adjust
TFR	Turf Restoration

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

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	OUT FOR BID	01–30–26	A2D	IVK

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INGALLS KINGSLEY WATER MAIN

ROAD PLAN AND PROFILE - E KINGSLEY ST

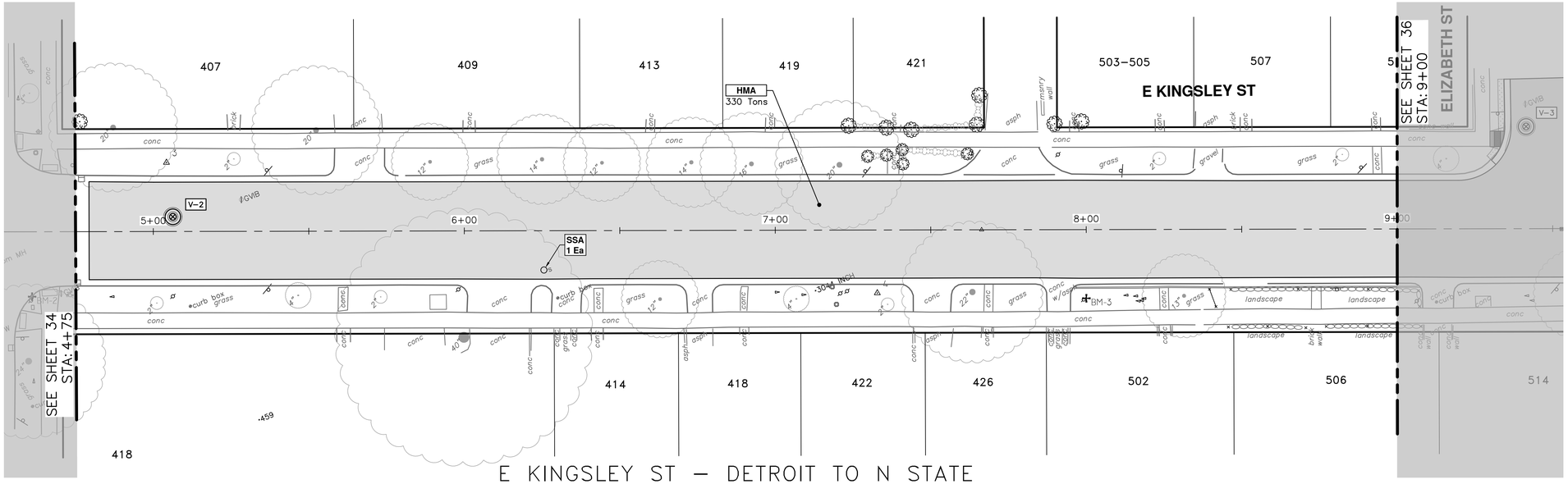
STA 0+60 - STA 4+75

SCALE PLAN: 1" = 20' PROFILE: 1" = 2'

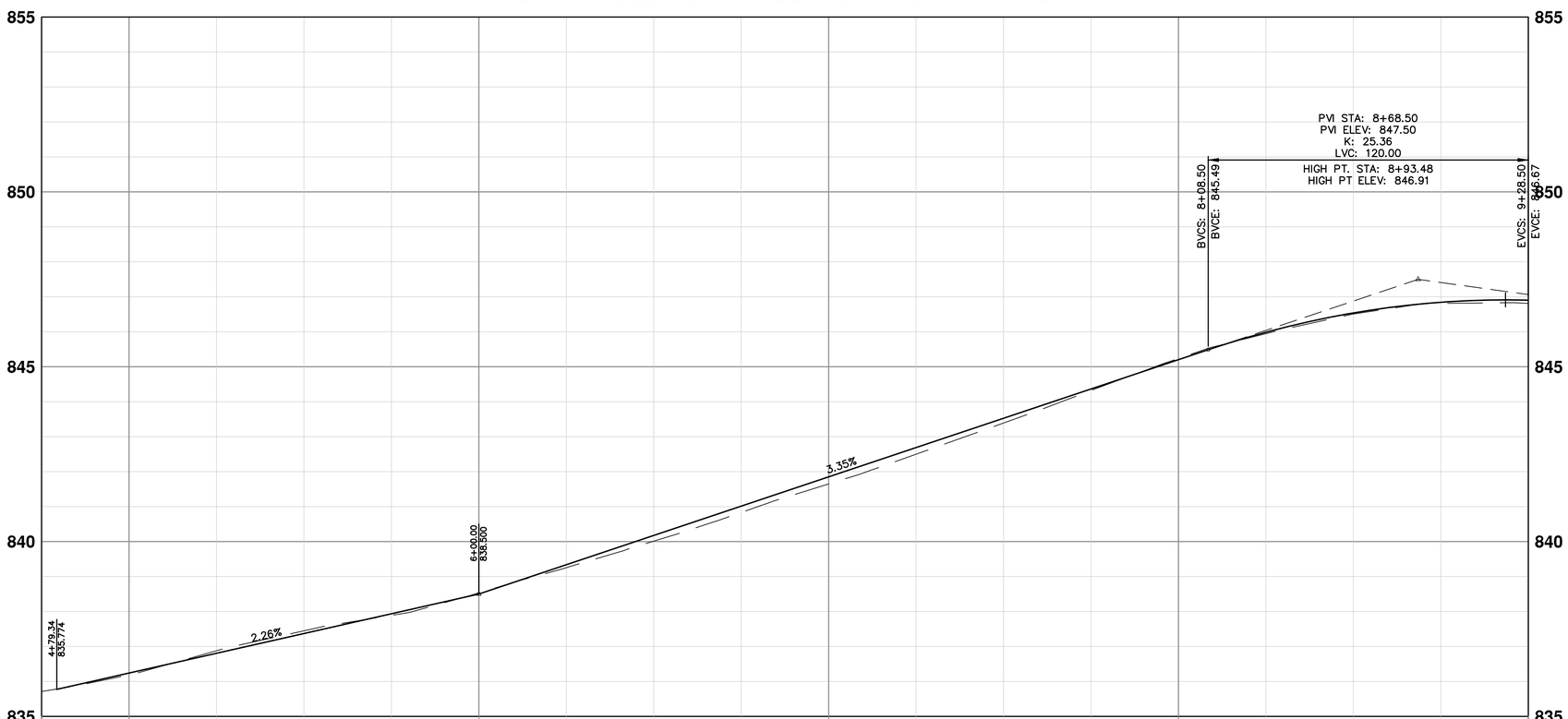
DRAWING No. 2025012-34

SHEET No. 34 OF 51

R:\2025012 Ingalls Kingsley WM Rsurf\Plan Production\2025012Prd.dwg Dwg Created: 29-Jan-26 – _a2 standard bw.stb – Plot Date: 29-Jan-26



E KINGSLEY ST – DETROIT TO N STATE



CONSTRUCTION KEY

KEY	DESCRIPTION
HMA	HMA; place material in lifts according to the Typical Section and as directed by the Engineer.
BRK	Brick Pavers, Sidewalk, Rem and Reinstall
HMA-APP	HMA Approach
HP	Hand Patching
CG	Conc, Curb or Curb & Gutter, All Types
DO-M	Conc, Driveway Opening, Type M
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DG-6	Driveway gravel, Aggregate Base, 6 inch 21AA limestone, C.I.P.
MG-D	Machine Grading, Driveway
SW-4	Conc, Sidewalk, 4 In.
SW-R6	Conc, Sidewalk, Drive Approach, or Ramp, 6 In.
SW-6HE	Conc, Sidewalk, Drive Approach, or Ramp, 6 In., High Early
SW-8	Conc, Sidewalk, Drive Approach, or Ramp, 8 In.
DWS	Detectable Warning Surface
BOA	By Others, Adjust
MBA	Monument Box, Adjust
WBA	Gate Box, Adjust
RSA	Storm Structure Cover, Adjust
SSA	Sanitary Structure Cover, Adjust
WSA	Water Structure Cover, Adjust
TFR	Turf Restoration

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INGALLS KINGSLEY WATER MAIN

ROAD PLAN AND PROFILE - E KINGSLEY ST

STA 4+75 - STA 9+00

SCALE PLAN: 1" = 20' PROFILE: 1" = 2'

DRAWING No. 2025012-35

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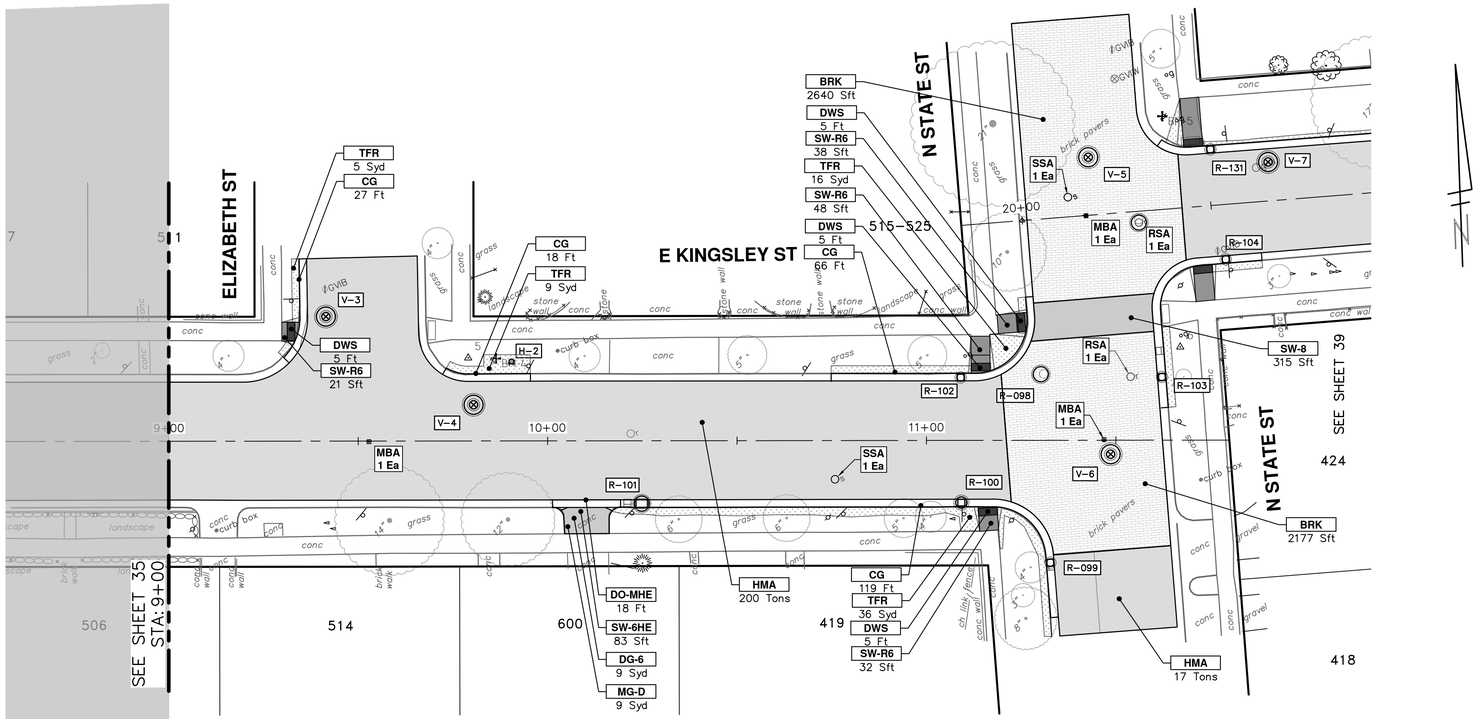
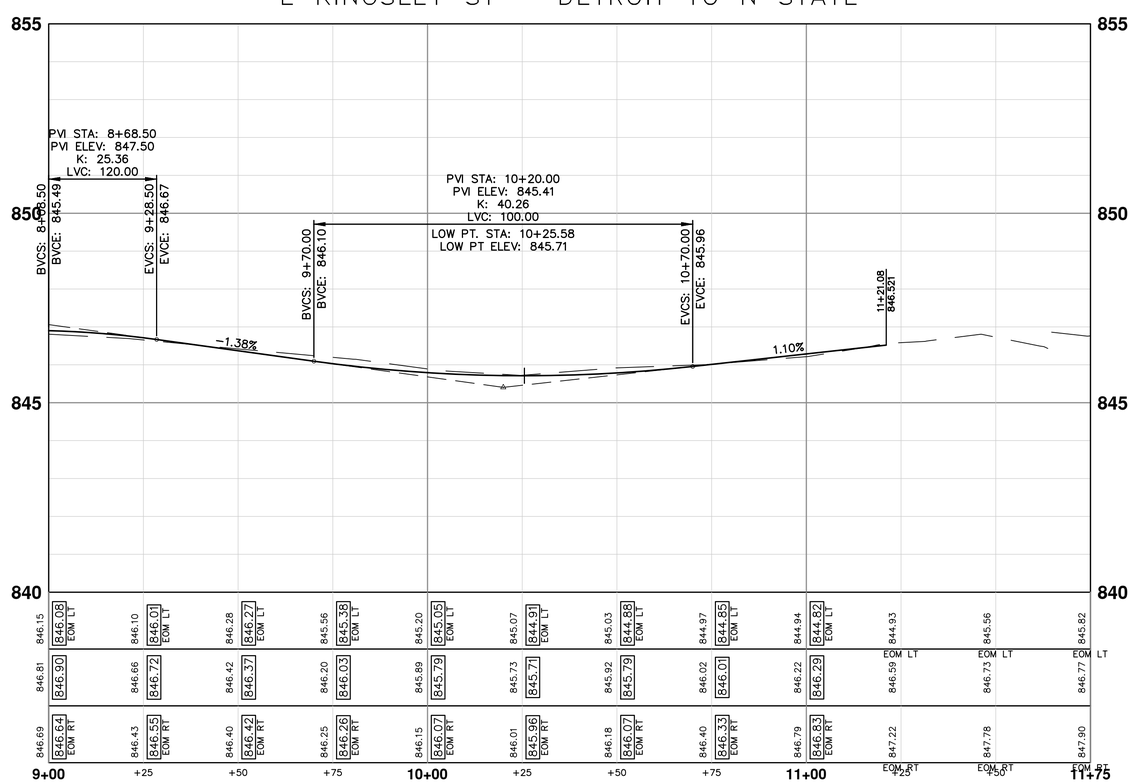


E KINGSLEY ST – DETROIT TO N STATE



CONSTRUCTION KEY

KEY	DESCRIPTION
HMA	HMA; place material in lifts according to the Typical Section and as directed by the Engineer.
BRK	Brick Pavers, Sidewalk, Rem and Reinstall
HMA-APP	HMA Approach
HP	Hand Patching
CG	Conc, Curb or Curb & Gutter, All Types
DO-M	Conc, Driveway Opening, Type M
DO-MHE	Conc, Driveway Opening, Type M, High Early
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MG-D	Machine Grading, Driveway
SW-4	Conc, Sidewalk, 4 In.
SW-R6	Conc, Sidewalk, Drive Approach, or Ramp, 6 In.
SW-6HE	Conc, Sidewalk, Drive Approach, or Ramp, 6 In., High Early
SW-8	Conc, Sidewalk, Drive Approach, or Ramp, 8 In.
DWS	Detectable Warning Surface
BOA	By Others, Adjust
MBA	Monument Box, Adjust
WBA	Gate Box, Adjust
RSA	Storm Structure Cover, Adjust
SSA	Sanitary Structure Cover, Adjust
WSA	Water Structure Cover, Adjust
TFR	Turf Restoration

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00	OUT FOR BID	01-30-26	A2D	IVK

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INGALLS KINGSLEY WATER MAIN

ROAD PLAN AND PROFILE - E KINGSLEY ST

STA 9+00 - 11+75

SCALE PLAN: 1" = 20' PROFILE: 1" = 2'

DRAWING No. 2025012-36

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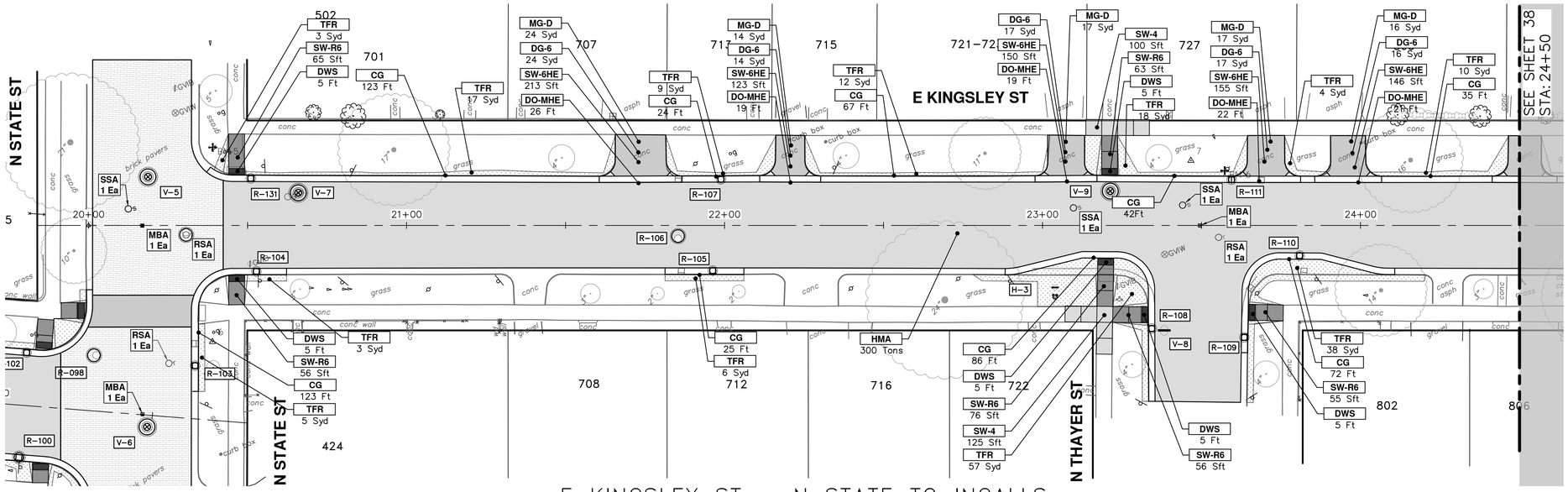
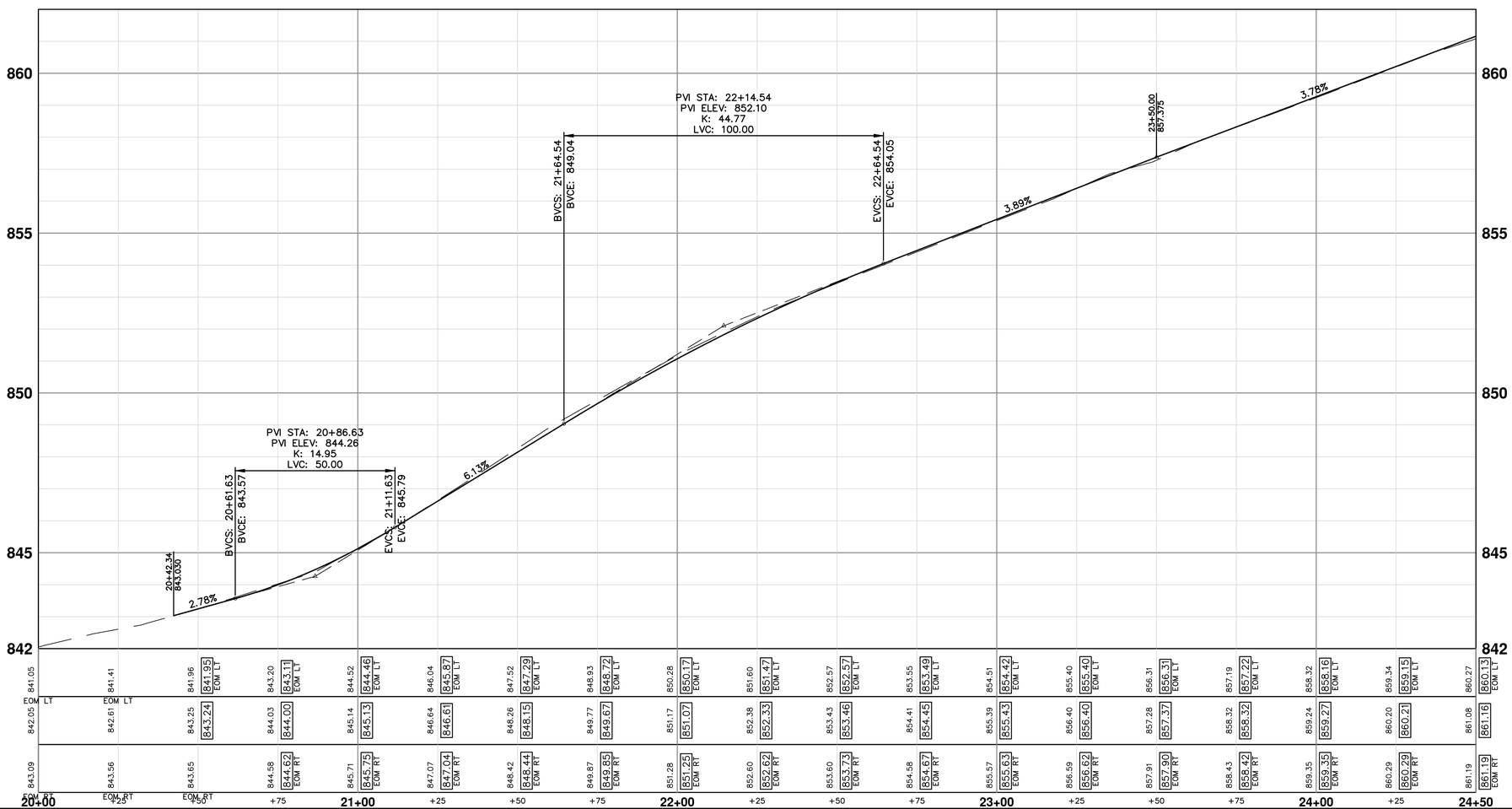


E KINGSLEY ST – N STATE TO INGALLS



CONSTRUCTION KEY

KEY	DESCRIPTION
HMA	HMA; place material in lifts according to the Typical Section and as directed by the Engineer.
BRK	Brick Pavers, Sidewalk, Rem and Reinstall
HMA-APP	HMA Approach
HP	Hand Patching
CG	Conc, Curb or Curb & Gutter, All Types
DO-M	Conc, Driveway Opening, Type M
DO-MHE	Conc, Driveway Opening, Type M, High Early
DG-6	Driveway gravel, Aggregate Base, 6 inch 21AA limestone, C.I.P.
MG-D	Machine Grading, Driveway
SW-4	Conc, Sidewalk, 4 in.
SW-R6	Conc, Sidewalk, Drive Approach, or Ramp, 6 in.
SW-6HE	Conc, Sidewalk, Drive Approach, or Ramp, 6 in., High Early
SW-8	Conc, Sidewalk, Drive Approach, or Ramp, 8 in.
DWS	Detectable Warning Surface
BOA	By Others, Adjust
MBA	Monument Box, Adjust
WBA	Gate Box, Adjust
RSA	Storm Structure Cover, Adjust
SSA	Sanitary Structure Cover, Adjust
WSA	Water Structure Cover, Adjust
TFR	Turf Restoration

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00	OUT FOR BID	01-30-26	A2D	IVK

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CITY OF ANN ARBOR MICHIGAN

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

INGALLS KINGSLEY WATER MAIN

ROAD PLAN AND PROFILE - E KINGSLEY ST

STA 20+00 - STA 24+50

SCALE PLAN: 1" = 20' PROFILE: 1" = 2'

DRAWING No. 2025012-37

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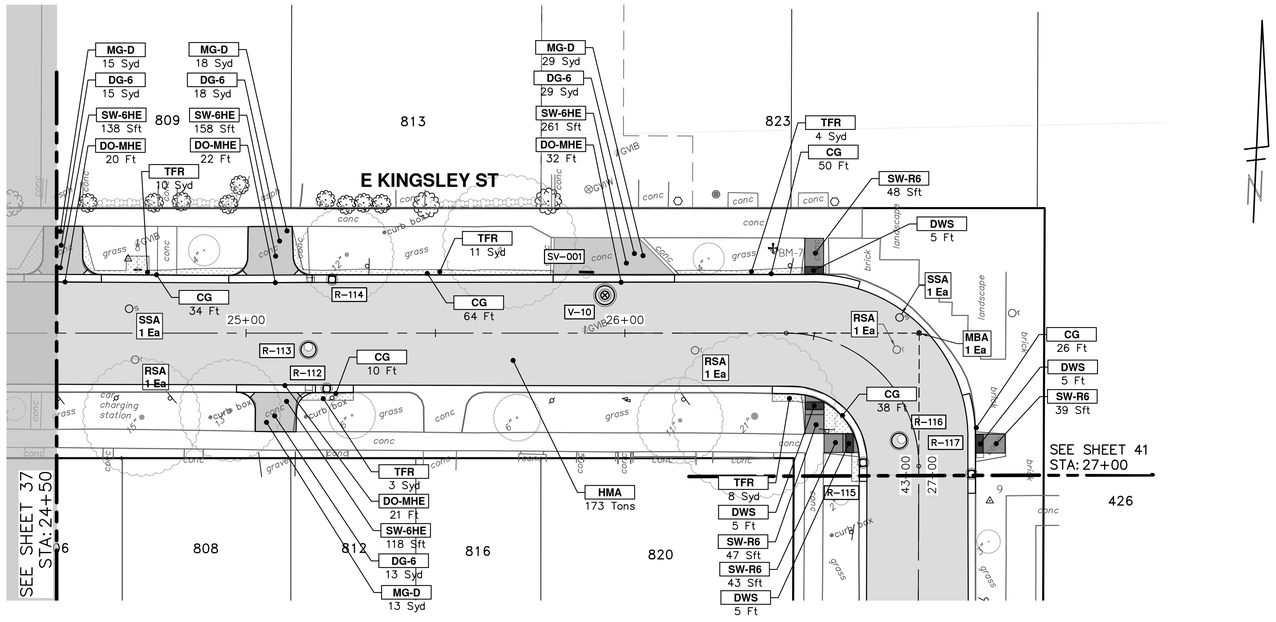
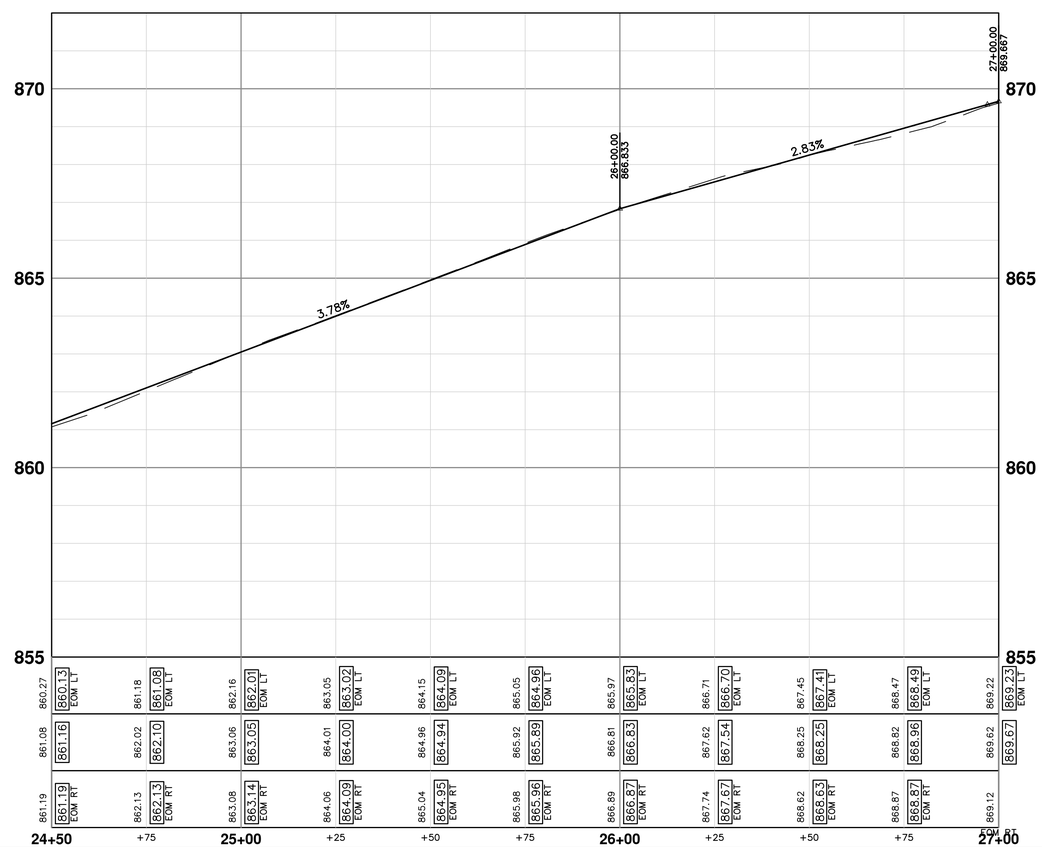


E KINGSLEY ST – N STATE TO INGALLS



CONSTRUCTION KEY

KEY	DESCRIPTION
HMA	HMA; place material in lifts according to the Typical Section and as directed by the Engineer.
BRK	Brick Pavers, Sidewalk, Rem and Reinstall
HMA-APP	HMA Approach
HP	Hand Patching
CG	Conc, Curb or Curb & Gutter, All Types
DO-M	Conc, Driveway Opening, Type M
DO-MHE	Conc, Driveway Opening, Type M, High Early
DG-6	Driveway gravel, Aggregate Base, 6 inch 21AA limestone, C.I.P.
MG-D	Machine Grading, Driveway
SW-4	Conc, Sidewalk, 4 in.
SW-R6	Conc, Sidewalk, Drive Approach, or Ramp, 6 in.
SW-6HE	Conc, Sidewalk, Drive Approach, or Ramp, 6 in., High Early
SW-8	Conc, Sidewalk, Drive Approach, or Ramp, 8 in.
DWS	Detectable Warning Surface
BOA	By Others, Adjust
MBA	Monument Box, Adjust
WBA	Gate Box, Adjust
RSA	Storm Structure Cover, Adjust
SSA	Sanitary Structure Cover, Adjust
WSA	Water Structure Cover, Adjust
TFR	Turf Restoration

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INGALLS KINGSLEY WATER MAIN

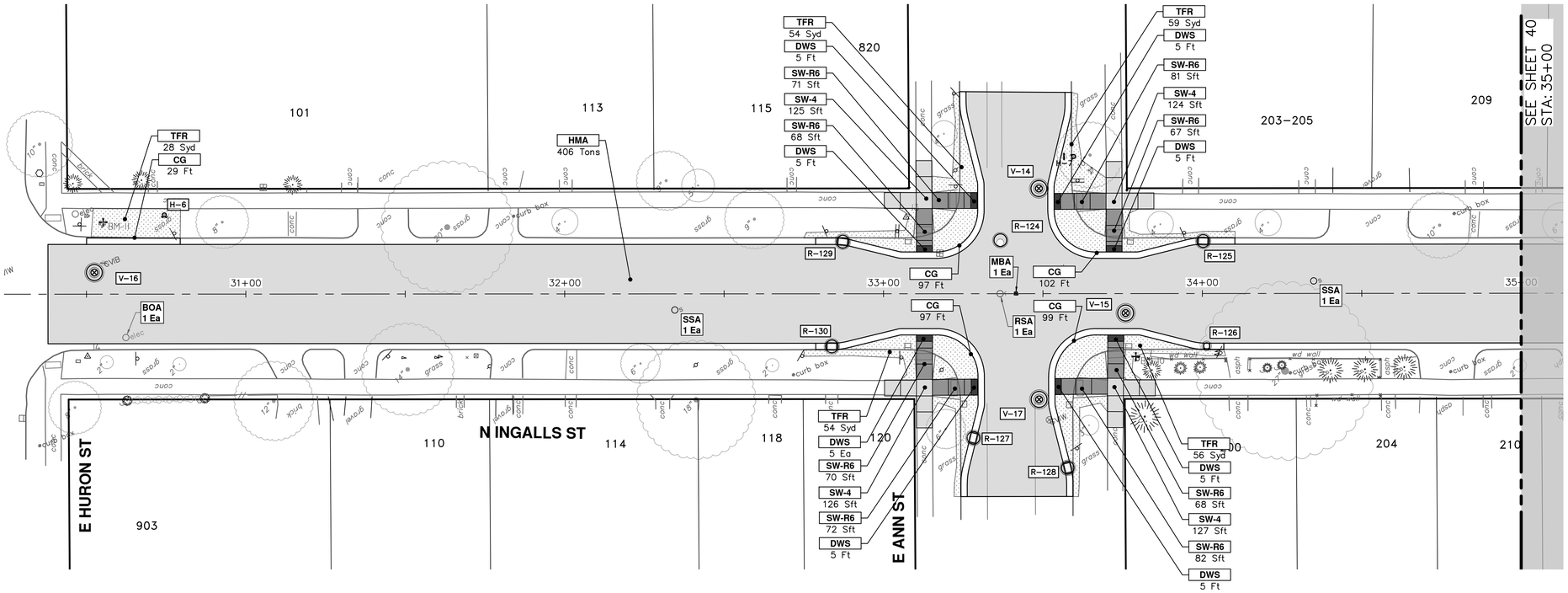
ROAD PLAN AND PROFILE - E KINGSLEY ST

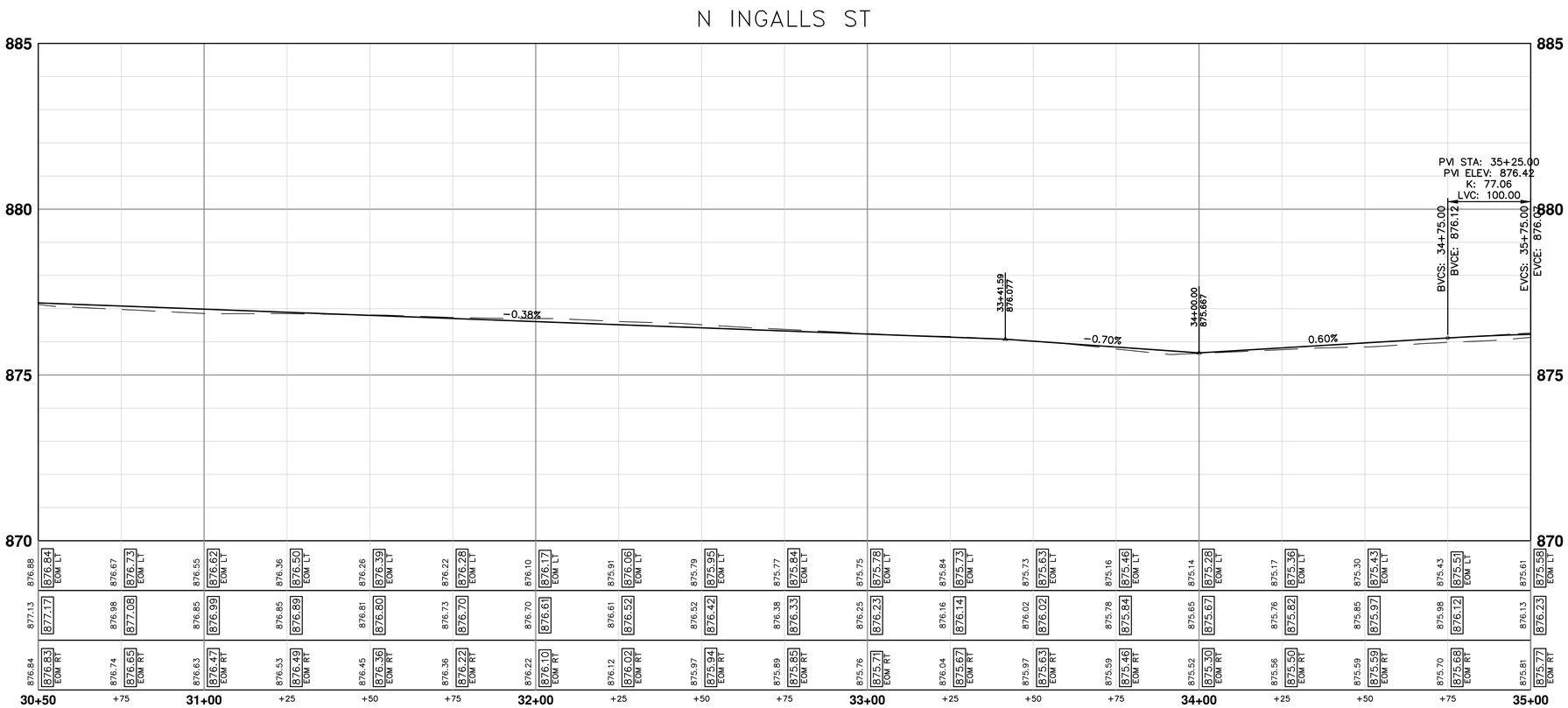
STA 24+50 - STA 27+00

SCALE PLAN: 1" = 20' PROFILE: 1" = 2'

DRAWING No. 2025012-38

R:\2025012 Ingalls Kingsley WM Rsurf\Plan Production\2025012Prd.dwg Dwg Created: 29-Jan-26 — _a2 standard bw.stb — Plot Date: 29-Jan-26





CONSTRUCTION KEY

KEY	DESCRIPTION
HMA	HMA; place material in lifts according to the Typical Section and as directed by the Engineer.
BRK	Brick Pavers, Sidewalk, Rem and Reinstall
HMA-APP	HMA Approach
HP	Hand Patching
CG	Conc, Curb or Curb & Gutter, All Types
DO-M	Conc, Driveway Opening, Type M
DO-MHE	Conc, Driveway Opening, Type M, High Early
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MG-D	Machine Grading, Driveway
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SW-8	Conc, Sidewalk, Drive Approach, or Ramp, 8 In.
DWS	Detectable Warning Surface
BOA	By Others, Adjust
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WBA	Gate Box, Adjust
RSA	Storm Structure Cover, Adjust
SSA	Sanitary Structure Cover, Adjust
WSA	Water Structure Cover, Adjust
TFR	Turf Restoration

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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	OUT FOR BID	01-30-26	A2D	IVK

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CITY OF ANN ARBOR MICHIGAN

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

INGALLS KINGSLEY WATER MAIN

ROAD PLAN AND PROFILE - N INGALLS ST

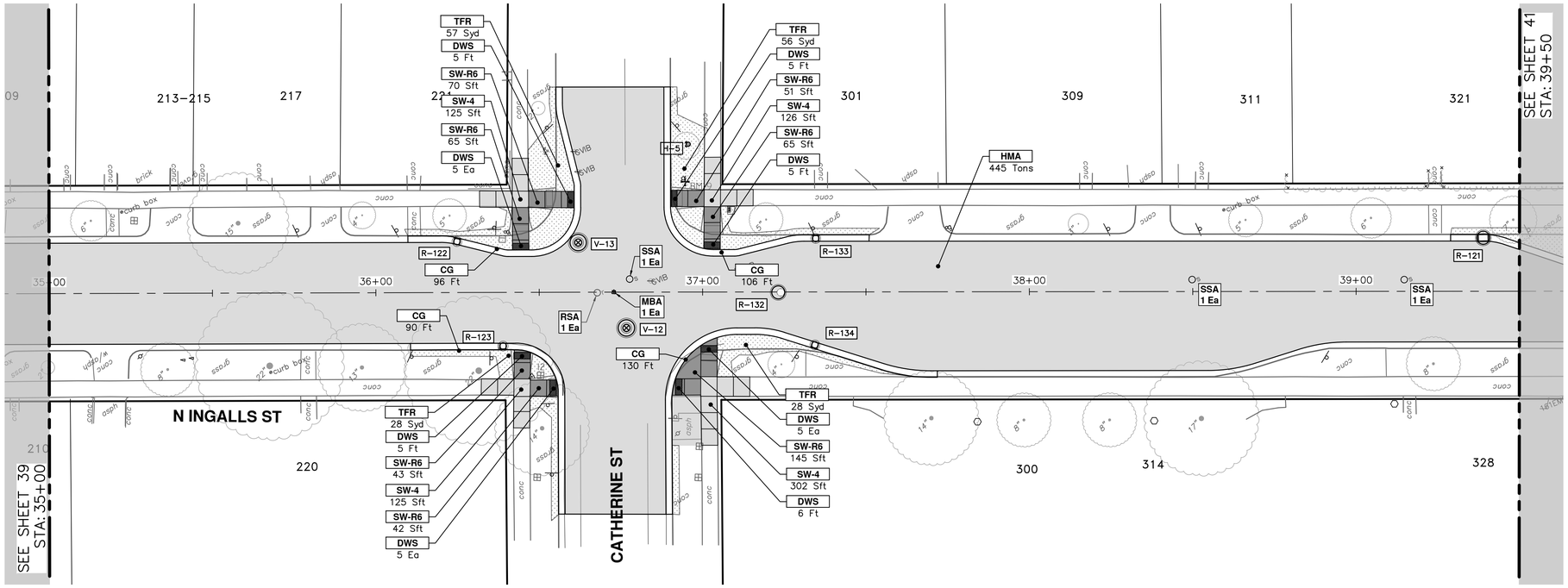
STA 30+38 - STA 35+00

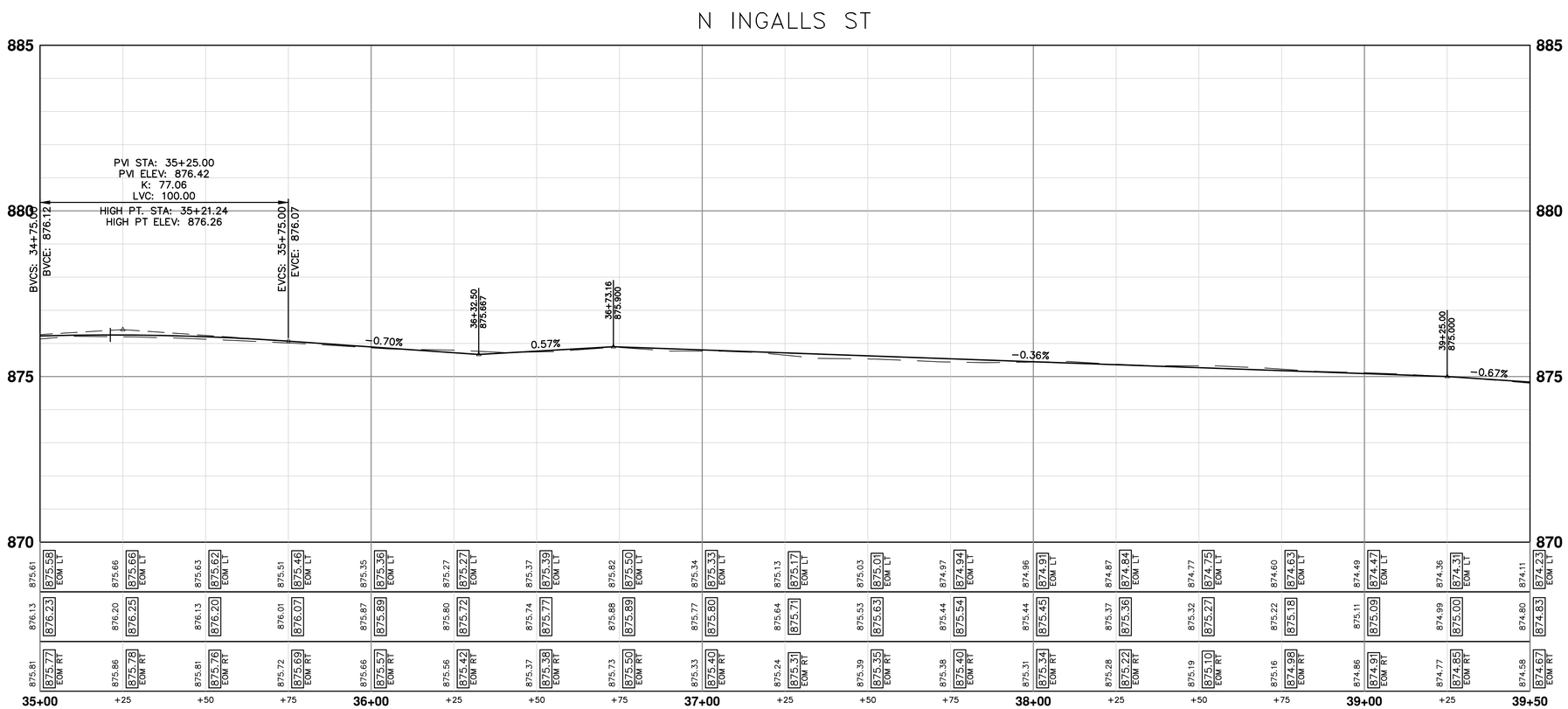
SCALE PLAN: 1" = 20' PROFILE: 1" = 2'

DRAWING No. 2025012-39

SHEET No. 39 OF 51

R:\2025012 Ingalls Kingsley WM Rsurf\Plan Production\2025012Prd.dwg Dwg Created: 29-Jan-26 — _a2 standard bw.stb — Plot Date: 29-Jan-26





CONSTRUCTION KEY

KEY	DESCRIPTION
HMA	HMA; place material in lifts according to the Typical Section and as directed by the Engineer.
BRK	Brick Pavers, Sidewalk, Rem and Reinstall
HMA-APP	HMA Approach
HP	Hand Patching
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MG-D	Machine Grading, Driveway
SW-4	Conc, Sidewalk, 4 In.
SW-R6	Conc, Sidewalk, Drive Approach, or Ramp, 6 In.
SW-6HE	Conc, Sidewalk, Drive Approach, or Ramp, 6 In., High Early
SW-8	Conc, Sidewalk, Drive Approach, or Ramp, 8 In.
DWS	Detectable Warning Surface
BOA	By Others, Adjust
MBA	Monument Box, Adjust
WBA	Gate Box, Adjust
RSA	Storm Structure Cover, Adjust
SSA	Sanitary Structure Cover, Adjust
WSA	Water Structure Cover, Adjust
TFR	Turf Restoration

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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	OUT FOR BID	01–30–26	A2D	IVK

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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

INGALLS KINGSLEY WATER MAIN

ROAD PLAN AND PROFILE - N INGALLS ST

STA 35+00 - STA 39+50

SCALE PLAN: 1" = 20' PROFILE: 1" = 2'

DRAWING No. 2025012-40

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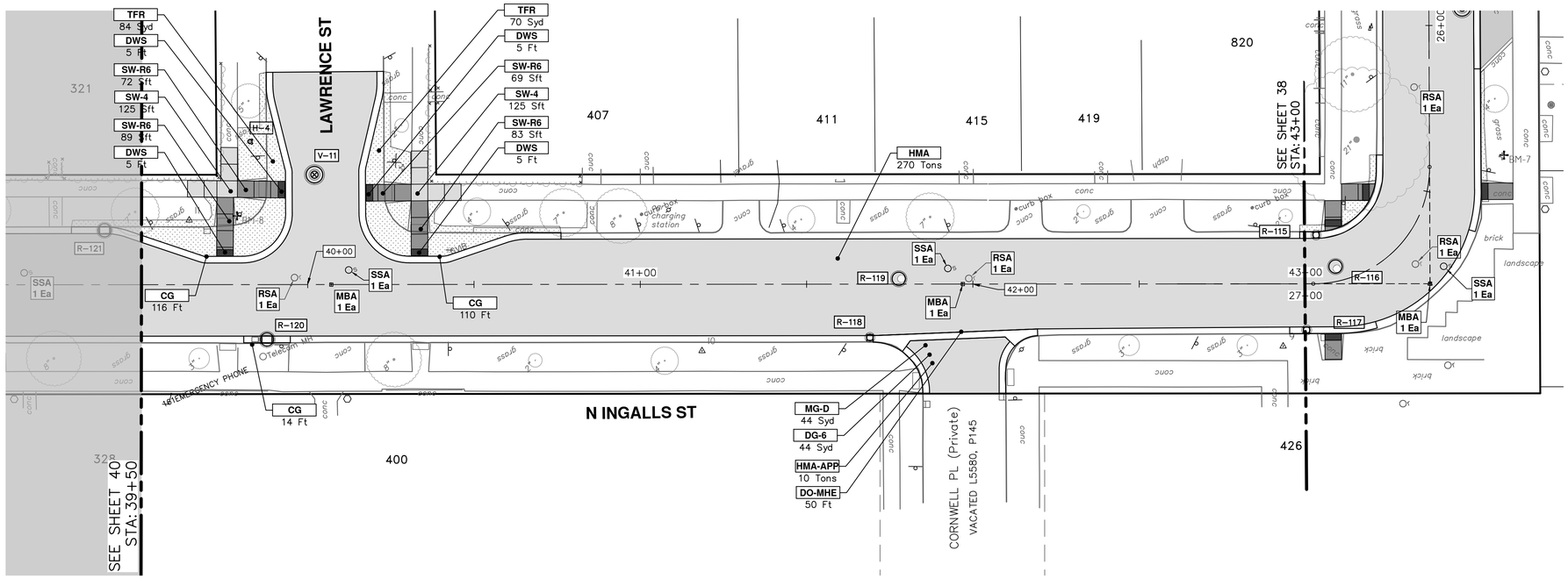

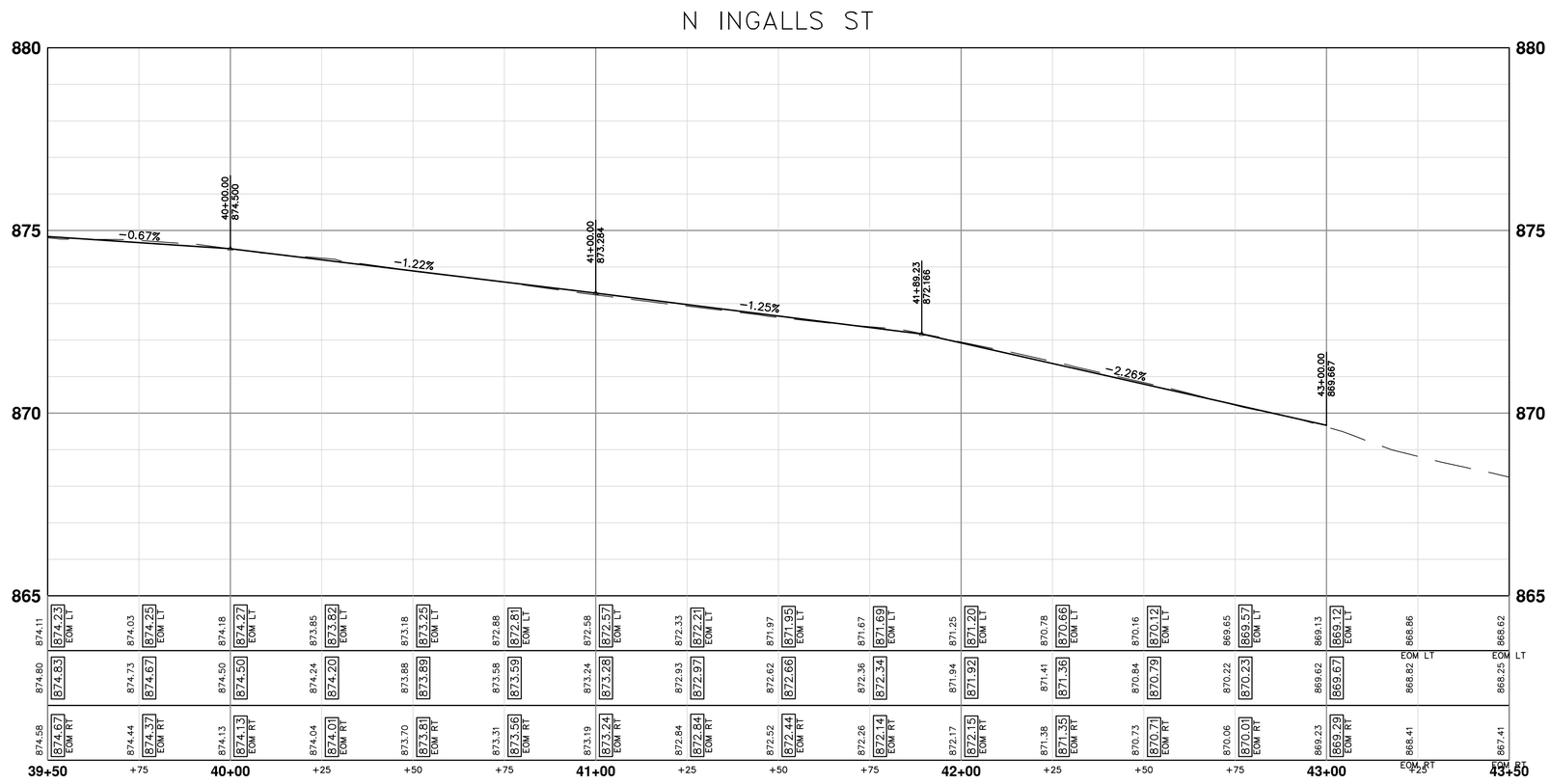

CONSTRUCTION KEY

KEY	DESCRIPTION
HMA	HMA; place material in lifts according to the Typical Section and as directed by the Engineer.
BRK	Brick Pavers, Sidewalk, Rem and Reinstall
HMA-APP	HMA Approach
HP	Hand Patching
CG	Conc, Curb or Curb & Gutter, All Types
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MG-D	Machine Grading, Driveway
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SW-R6	Conc, Sidewalk, Drive Approach, or Ramp, 6 In.
SW-6HE	Conc, Sidewalk, Drive Approach, or Ramp, 6 In., High Early
SW-8	Conc, Sidewalk, Drive Approach, or Ramp, 8 In.
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BOA	By Others, Adjust
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WBA	Gate Box, Adjust
RSA	Storm Structure Cover, Adjust
SSA	Sanitary Structure Cover, Adjust
WSA	Water Structure Cover, Adjust
TFR	Turf Restoration

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

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	OUT FOR BID	01-30-26	A2D	IVK

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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

INGALLS KINGSLEY WATER MAIN

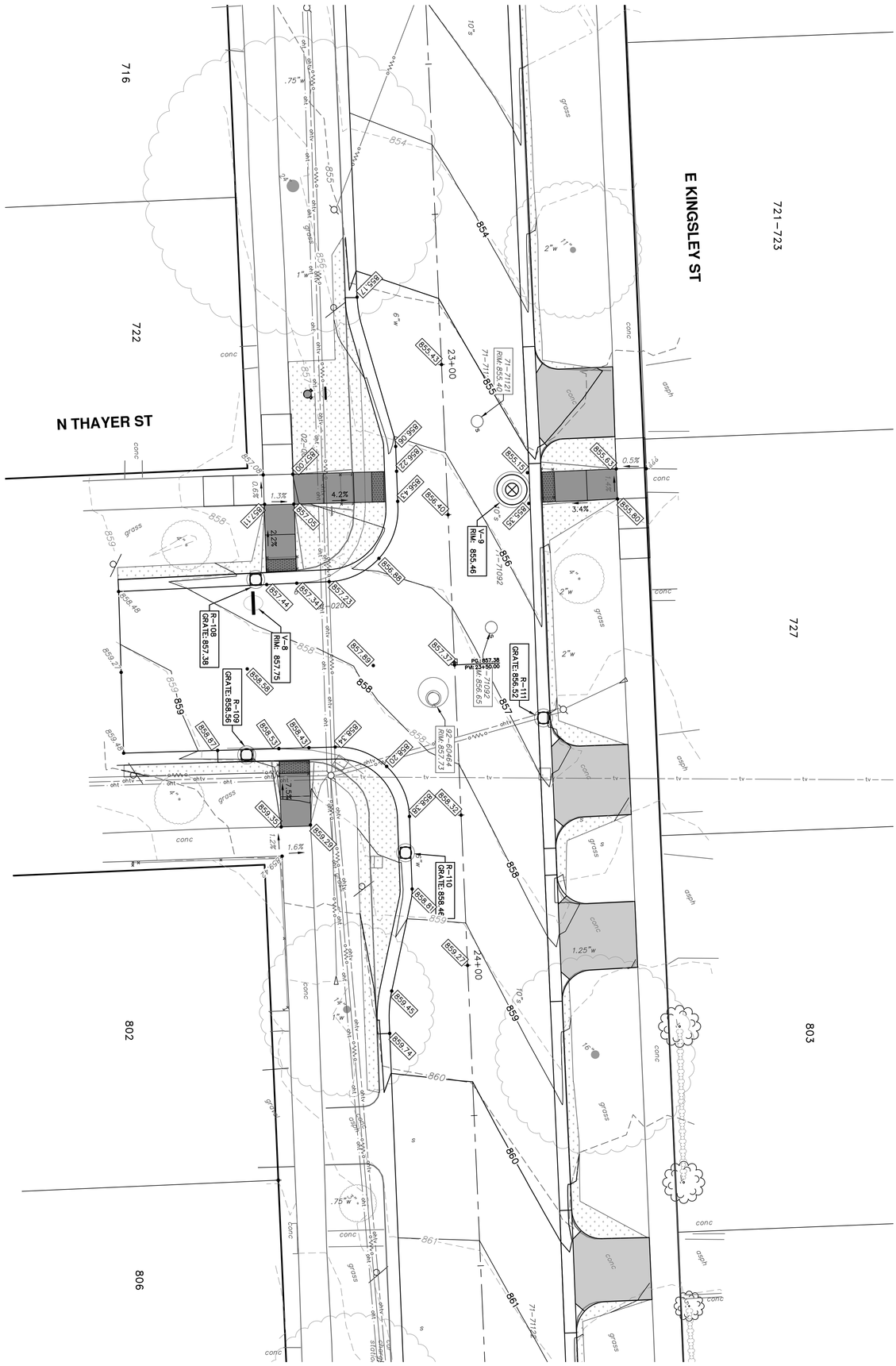
ROAD PLAN AND PROFILE - N INGALLS ST

STA 39+50 - STA 43+00

SCALE PLAN: 1" = 20' PROFILE: 1" = 2'

DRAWING No. 2025012-41

R:\2025012 Ingalls Kingsley WM Rsurf\Plan Production\2025012Prd.dwg Dwg Created: 29-Jan-26 — _a2 standard bw.stb — Plot Date: 29-Jan-26



SHEET No.	CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING		CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET P.O. BOX 8647 ANN ARBOR, MI 48107-8647 734-794-6410 www.a2gov.org	REV.	DESCRIPTION	DATE	DRAWN	CHECKED
42 OF 51	SCALE : 1" = 10'	INGALLS KINGSLEY WATER MAIN		00	OUT FOR BID	01-30-26	A2D	IVK
	DRAWING No. 2025012-42	INTERSECTION GRADING						
		N THAYER ST						

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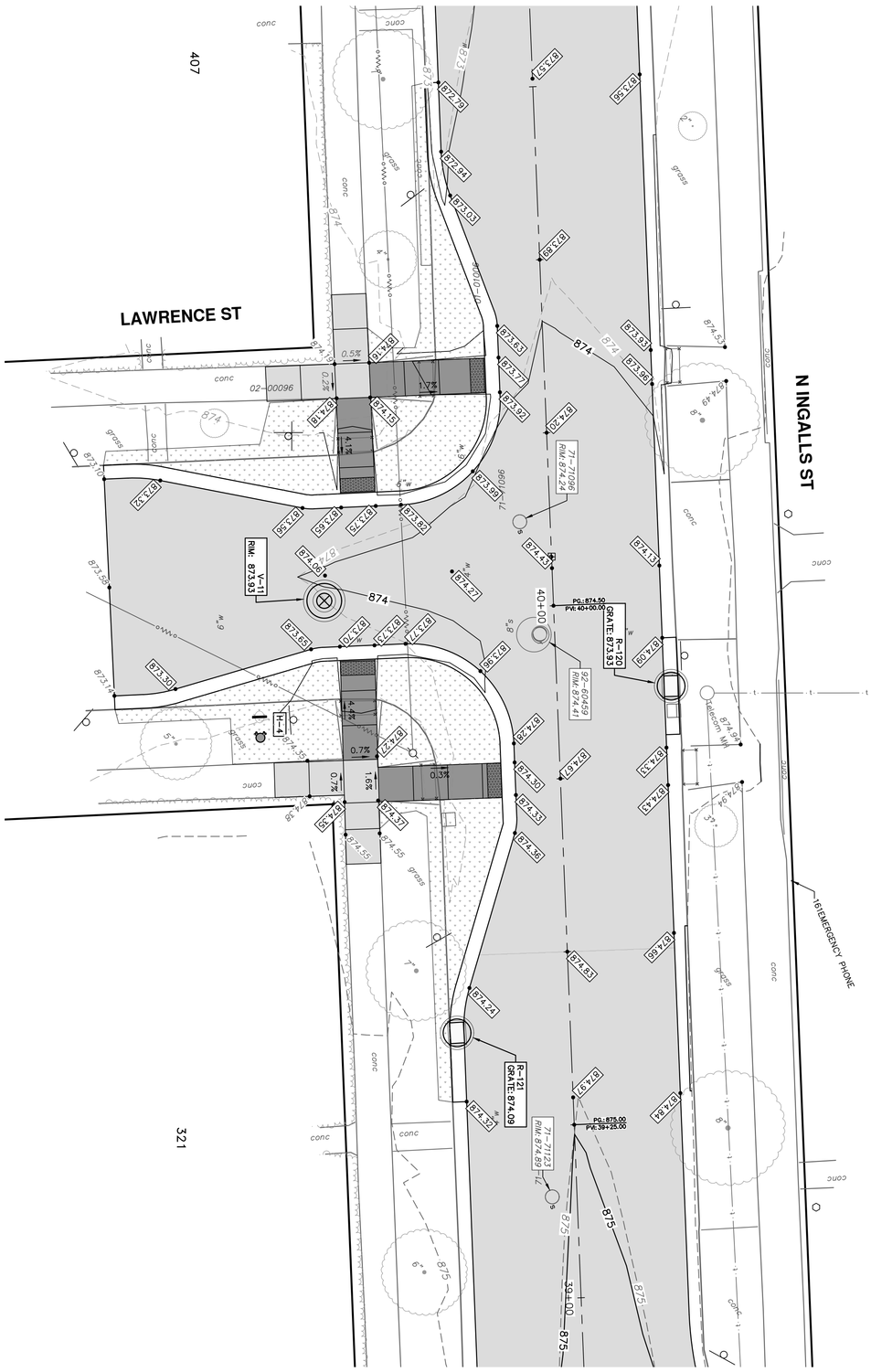

SHEET No.	CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING		CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET P.O. BOX 8647 ANN ARBOR, MI 48107-8647 734-794-6410 www.a2gov.org	REV.	DESCRIPTION	DATE	DRAWN	CHECKED
43 OF 51	SCALE : 1" = 10'	INGALLS KINGSLEY WATER MAIN		00	OUT FOR BID	01-30-26	A2D	IVK
	DRAWING No. 2025012-43	INTERSECTION GRADING						
		LAWRENCE ST						

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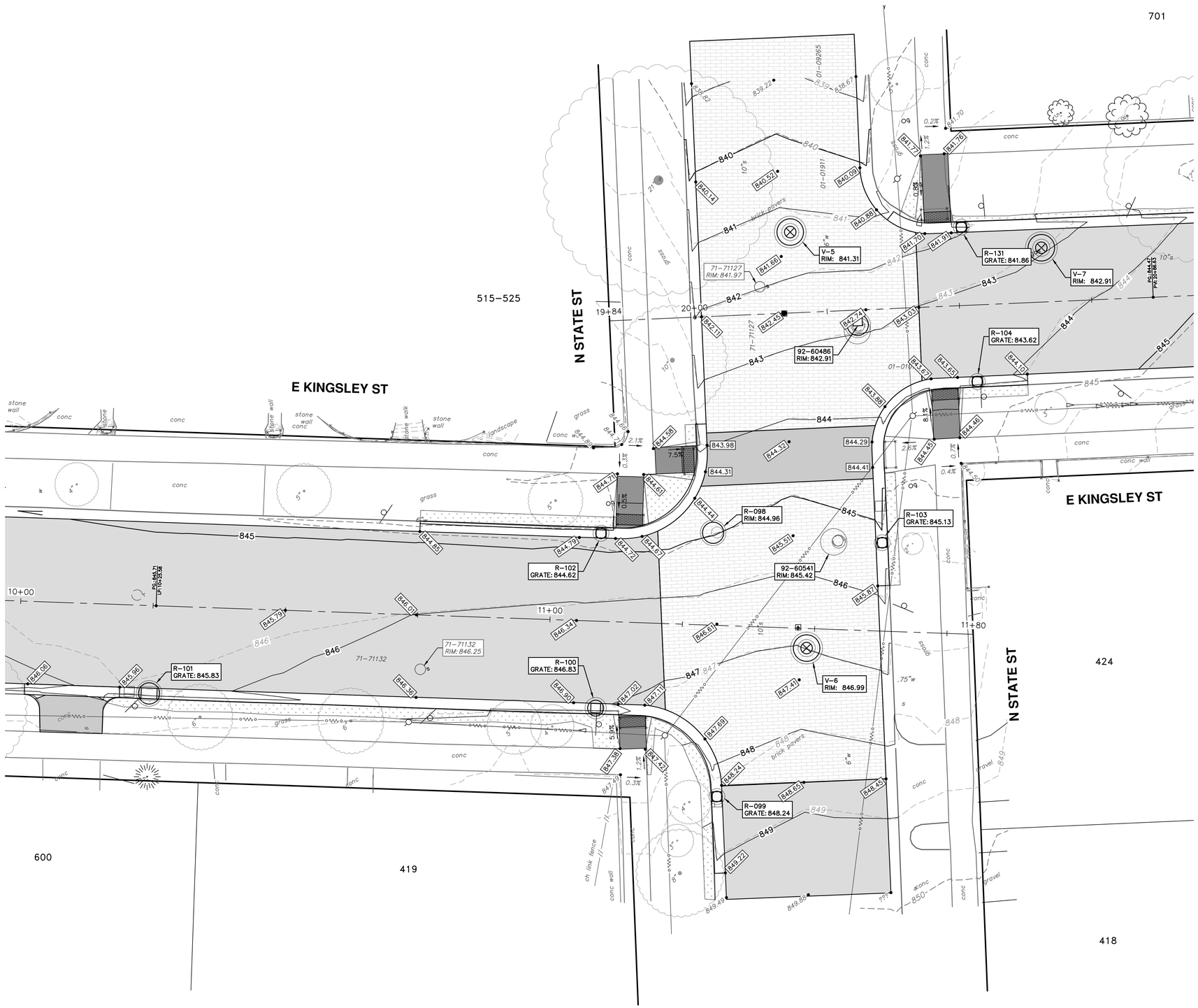

811 Know what's below. Call before you dig.

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	OUT FOR BID	01–30–26	A2D	IVK

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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

INGALLS KINGSLEY WATER MAIN

INTERSECTION GRADING

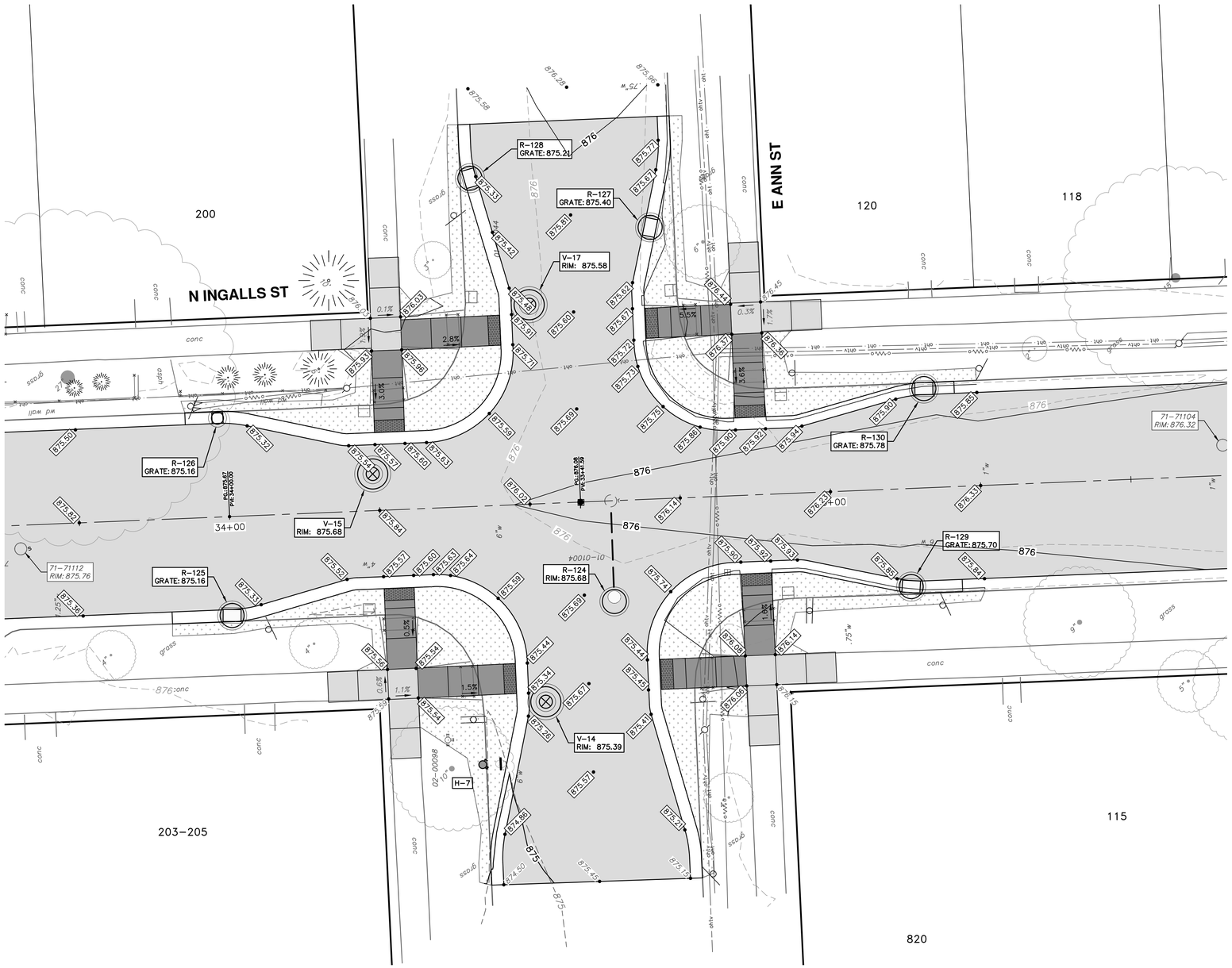
N STATE ST

SCALE : 1" = 10'

DRAWING No. 2025012-44

SHEET No. 44 OF 51

R:\2025012 Ingalls Kingsley WM Rsurf\Plan Production\2025012 IG.dwg Dwg Created: 28-Jan-26 – _a2 standard bw.stb – Plot Date: 29-Jan-26



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INGALLS KINGSLEY WATER MAIN

INTERSECTION GRADING

ANNE ST

SCALE : 1" = 10'

DRAWING No.
2025012-45

SHEET No.
45 OF 51

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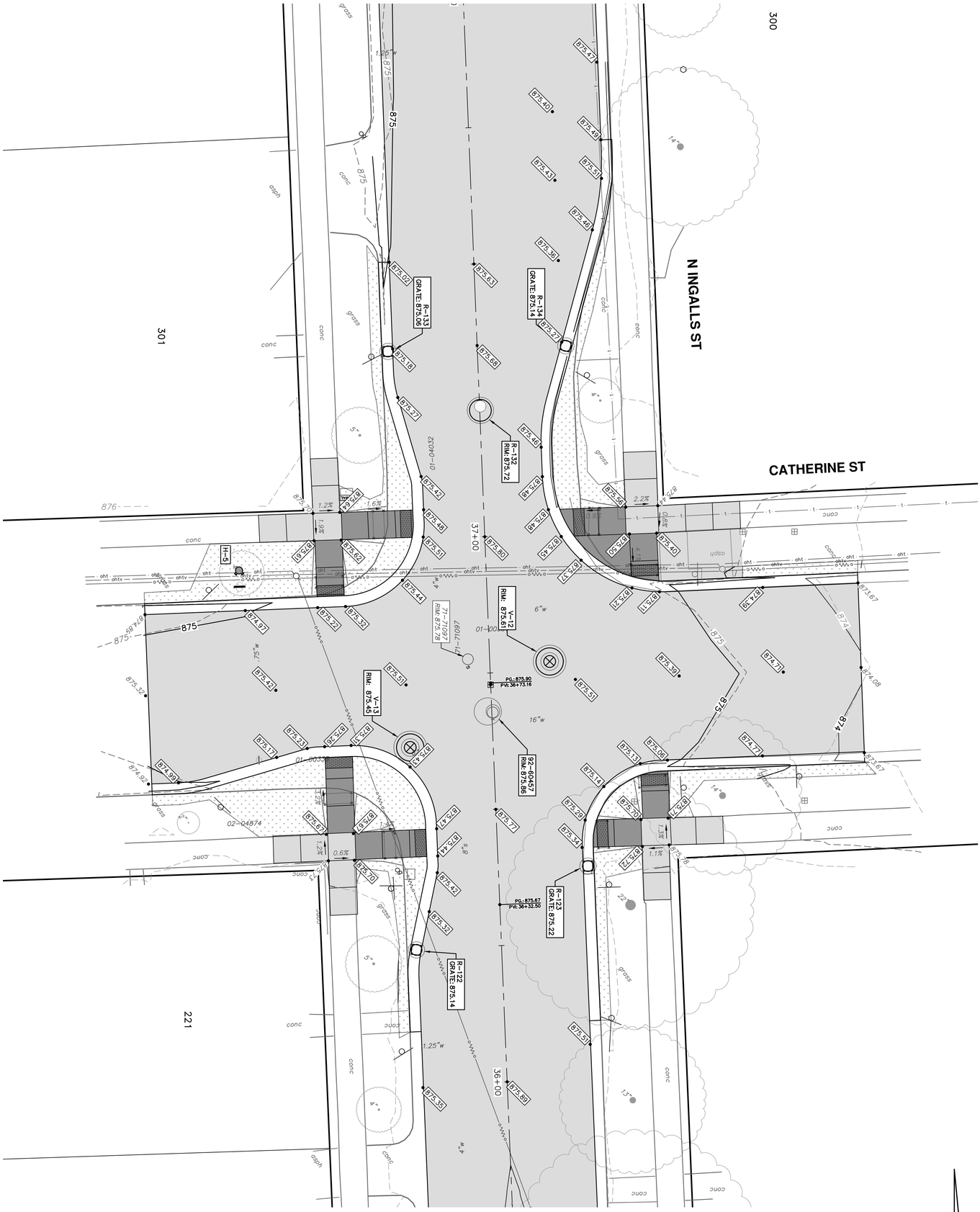

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46 OF 51	SCALE : 1" = 10'	INGALLS KINGSLEY WATER MAIN	
	DRAWING No. 2025012-46	INTERSECTION GRADING	
		CATHERINE ST	

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
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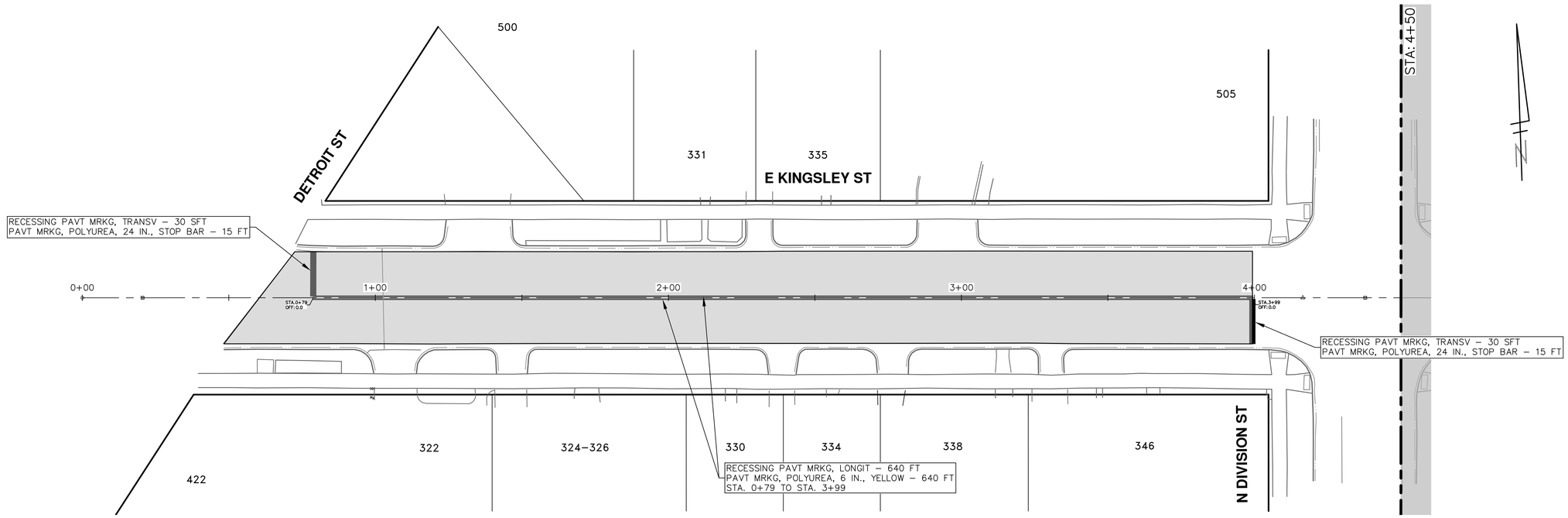

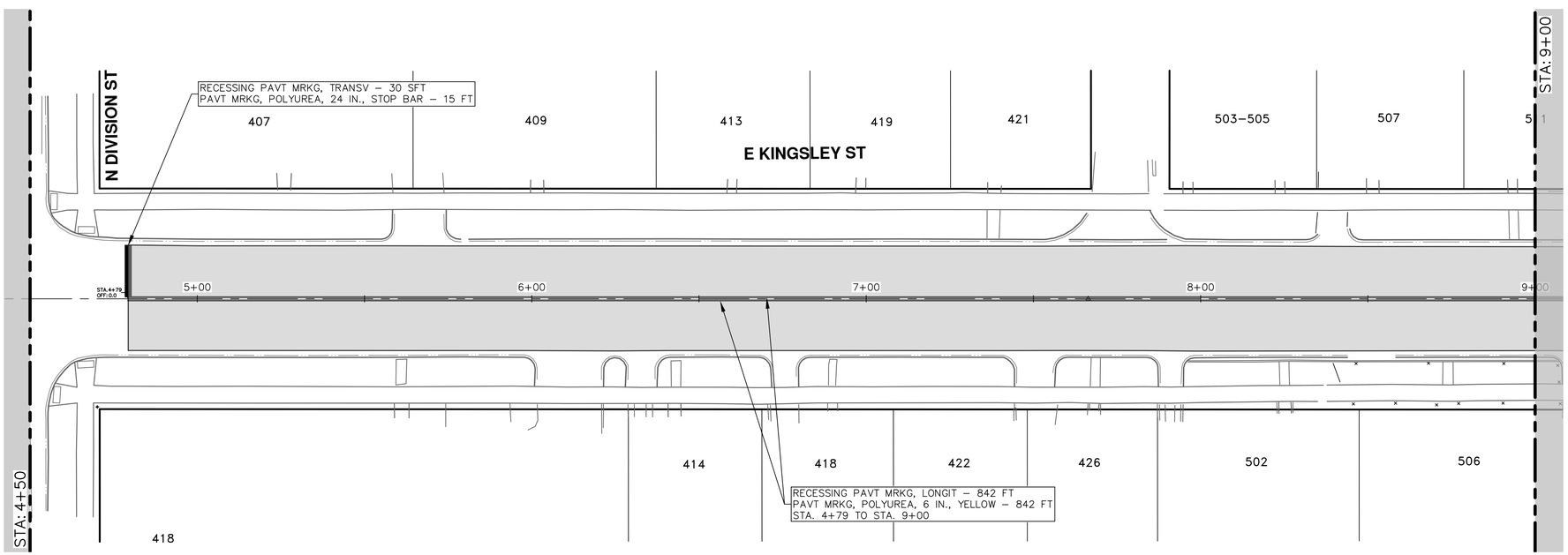

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INGALLS KINGSLEY WATER MAIN

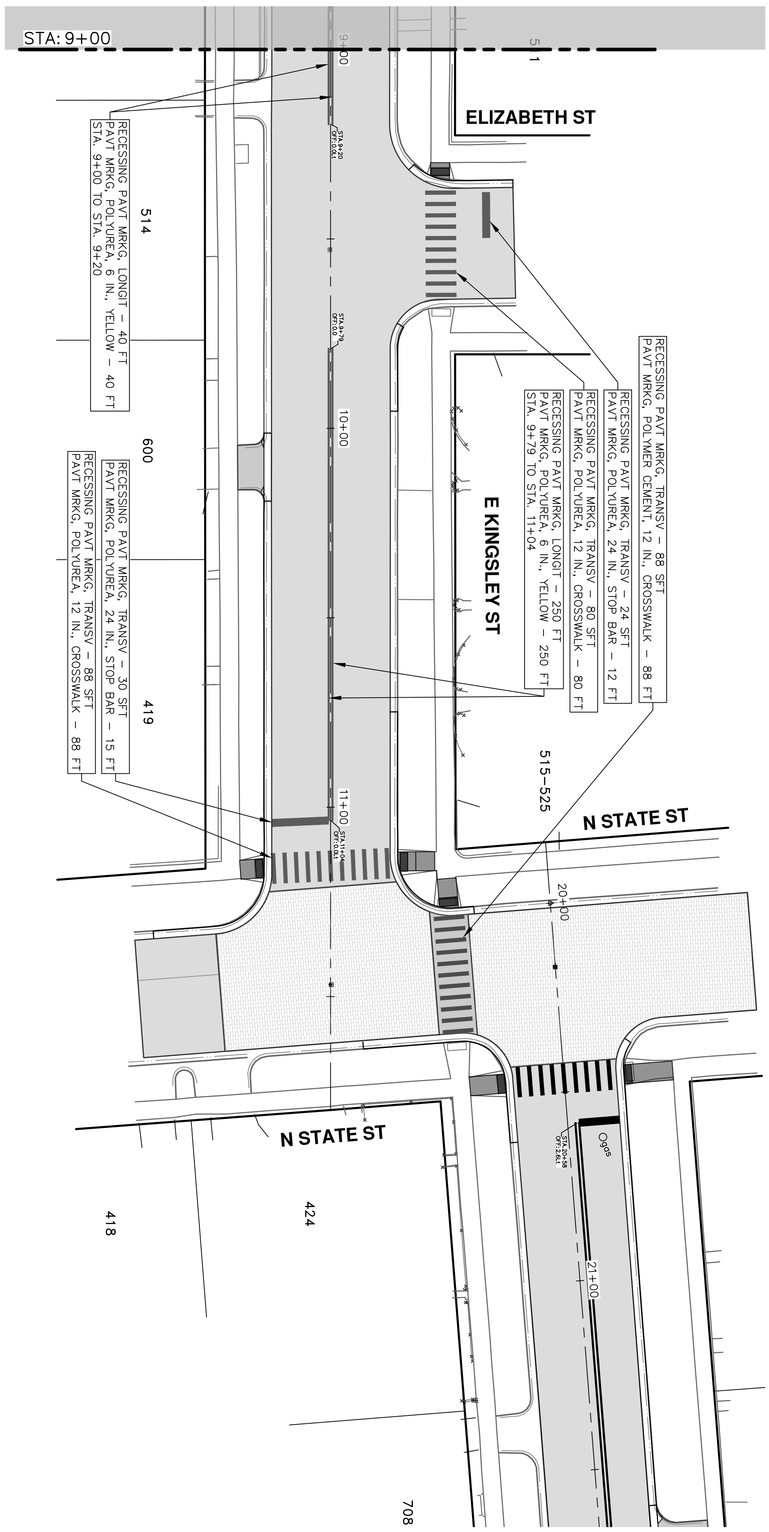
PAVEMENT MARKINGS & SIGNAGE

E KINGSLEY ST - DETROIT ST TO STA 9+00

SCALE PLAN: 1" = 20'

DRAWING No. 2025012-47

R:\2025012 Ingalls Kingsley WM Rsurf\Plan Production\2025012Pmrk-Tsgn.dwg Dwg Created: 26-Jan-26 – _a2 standard bw.stb – Plot Date: 29-Jan-26



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REV.	DESCRIPTION	DATE	DRAWN	CHECKED	

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SCALE **PLAN: 1" = 20'**

DRAWING No. **2025012-48**

INGALLS KINGSLEY WATER MAIN

PAVEMENT MARKINGS & SIGNAGE

E KINGSLEY ST - STA 9+00 TO N STATE ST

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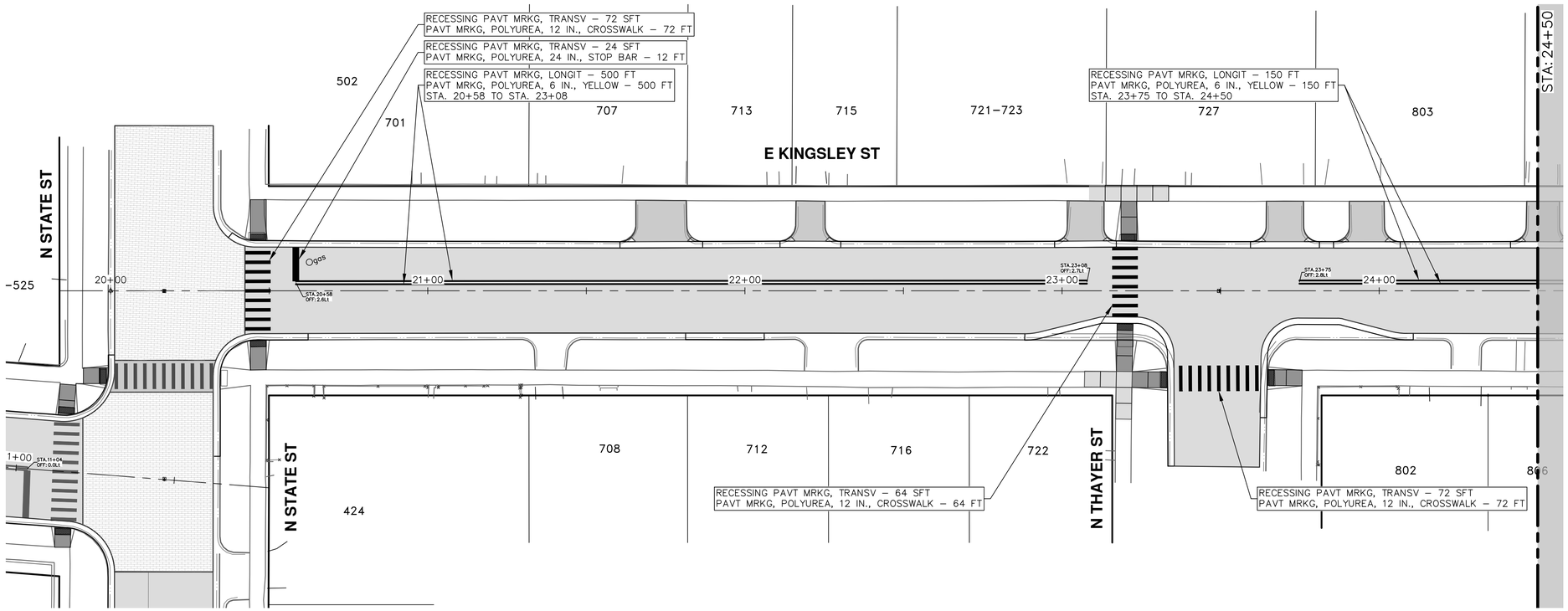

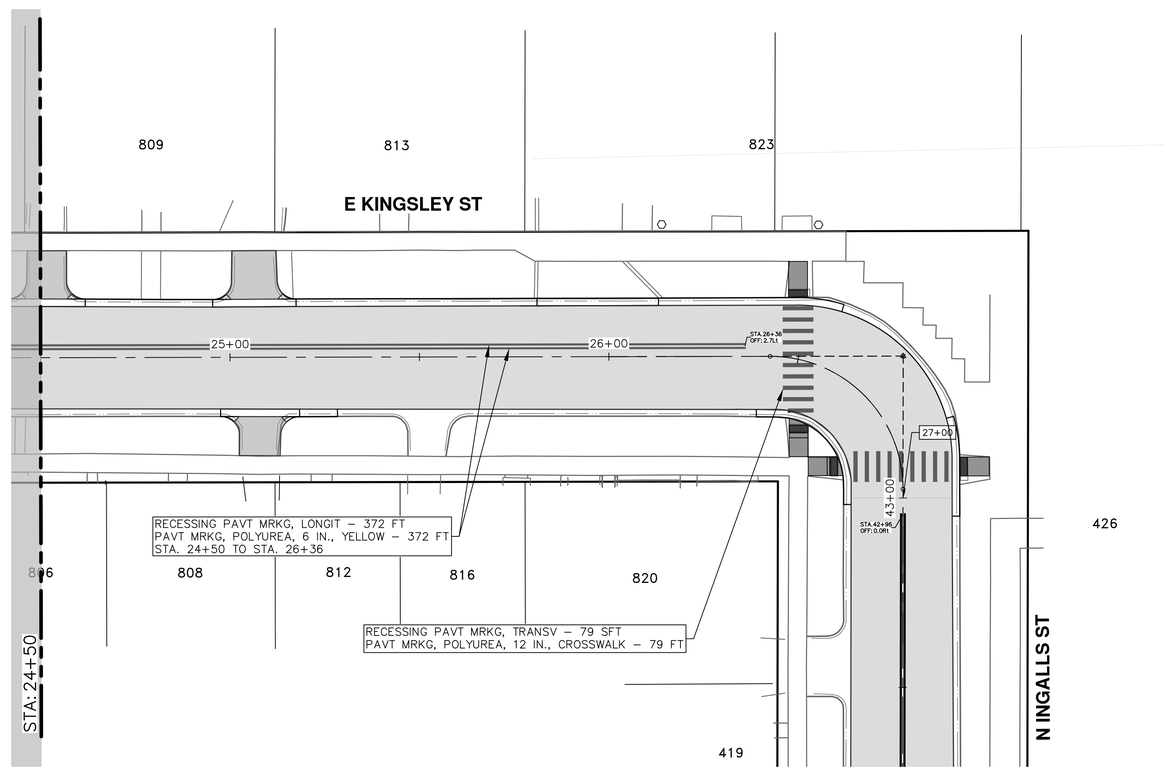

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INGALLS KINGSLEY WATER MAIN

PAVEMENT MARKINGS & SIGNAGE

E KINGSLEY ST - N STATE ST TO N INGALLS ST

SCALE PLAN: 1" = 20'

DRAWING No. 2025012-49

SHEET No. 49 OF 51

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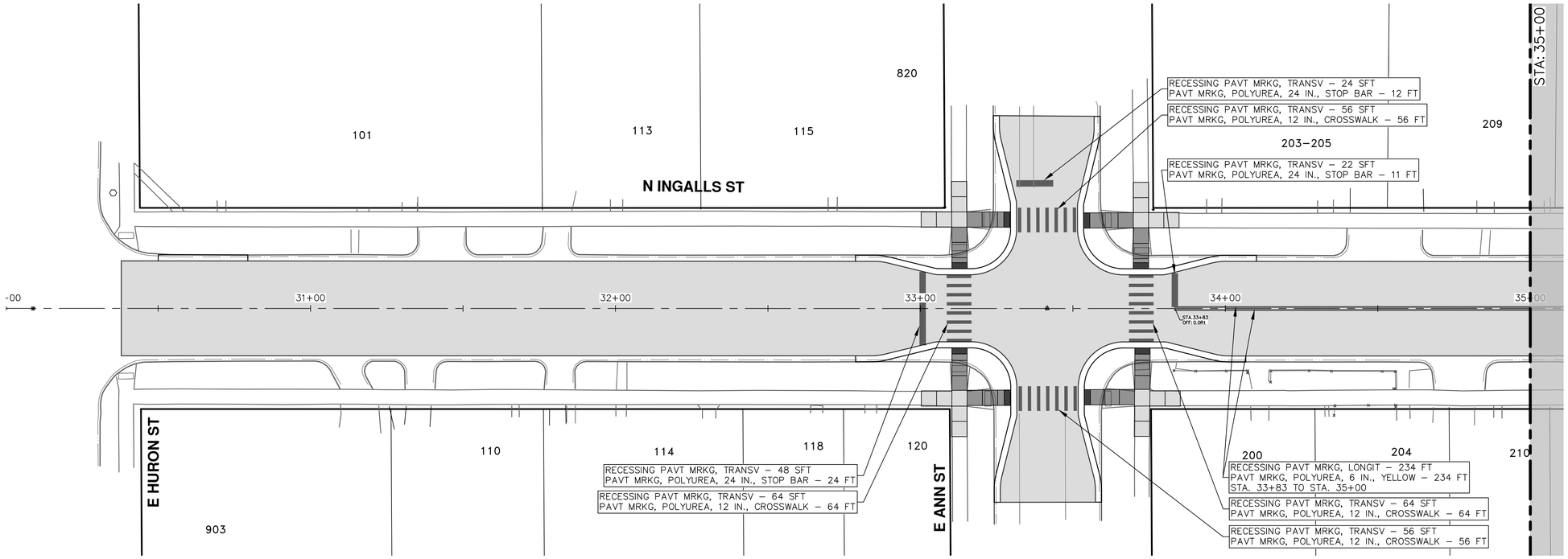

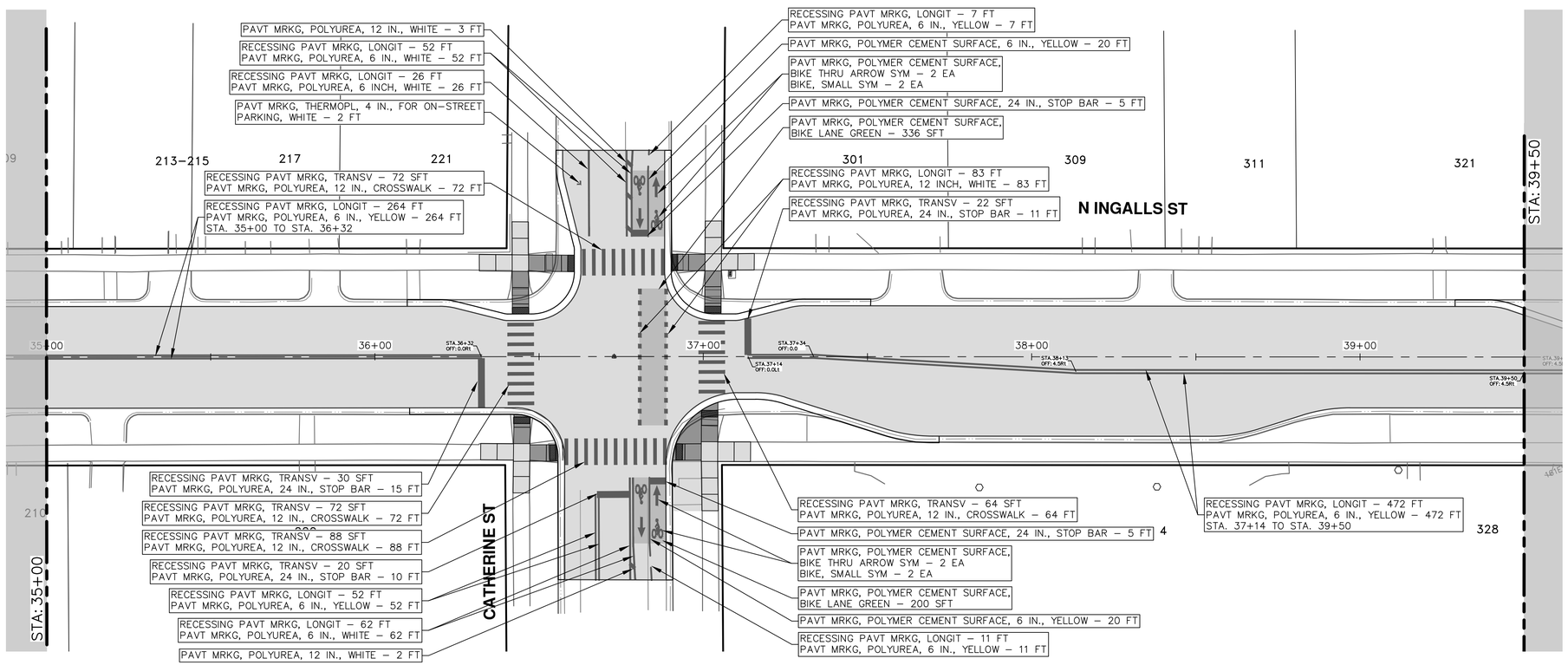

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INGALLS KINGSLEY WATER MAIN

PAVEMENT MARKINGS & SIGNAGE

N INGALLS ST - E HURON ST TO STA 39+50

SCALE PLAN: 1" = 20'

DRAWING No. 2025012-50

SHEET No. 50 OF 51

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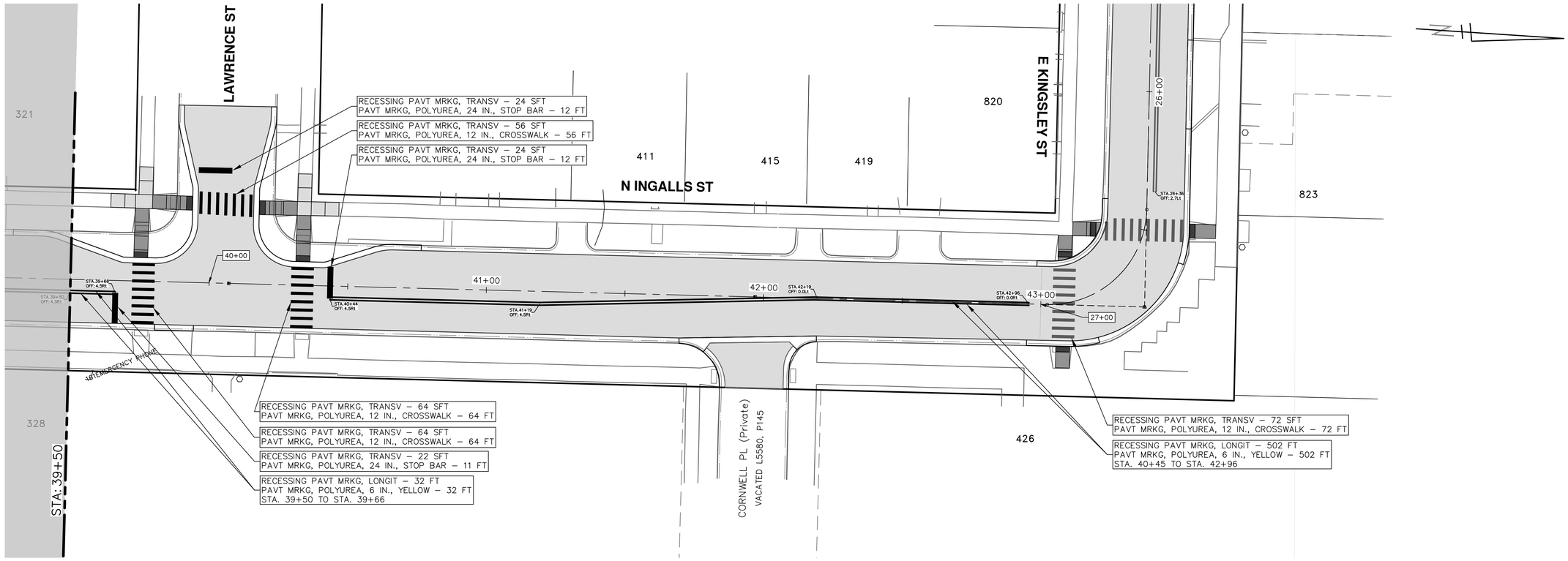

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N INGALLS ST - STA 39+50 - E KINGSLEY ST

SCALE PLAN: 1" = 20'

DRAWING No. 2025012-51

SHEET No. 51 OF 51

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