



CITY OF ANN ARBOR ENGINEERING

2025 MISCELLANEOUS UTILITY PROJECTS

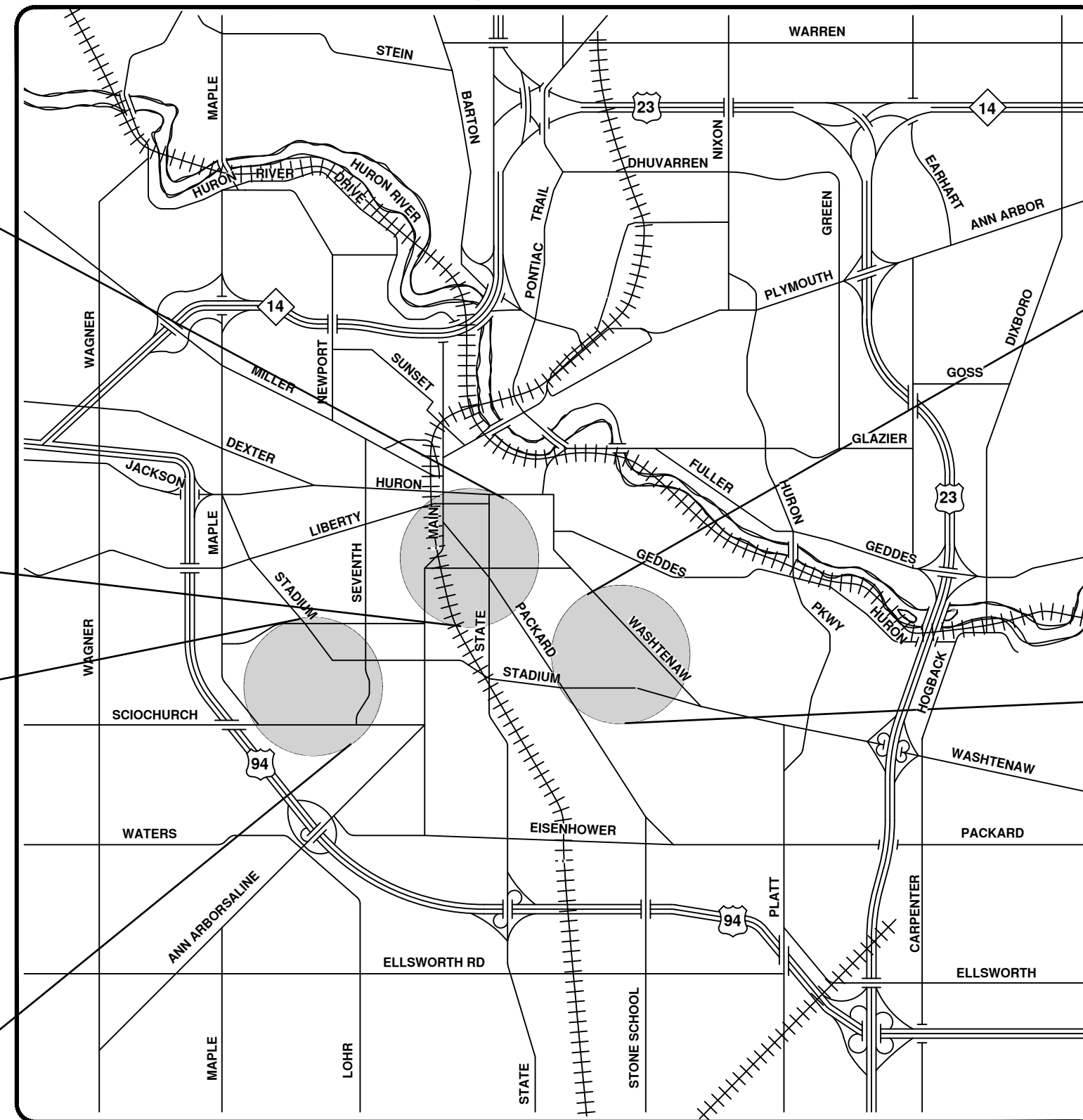
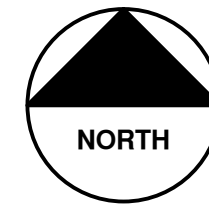
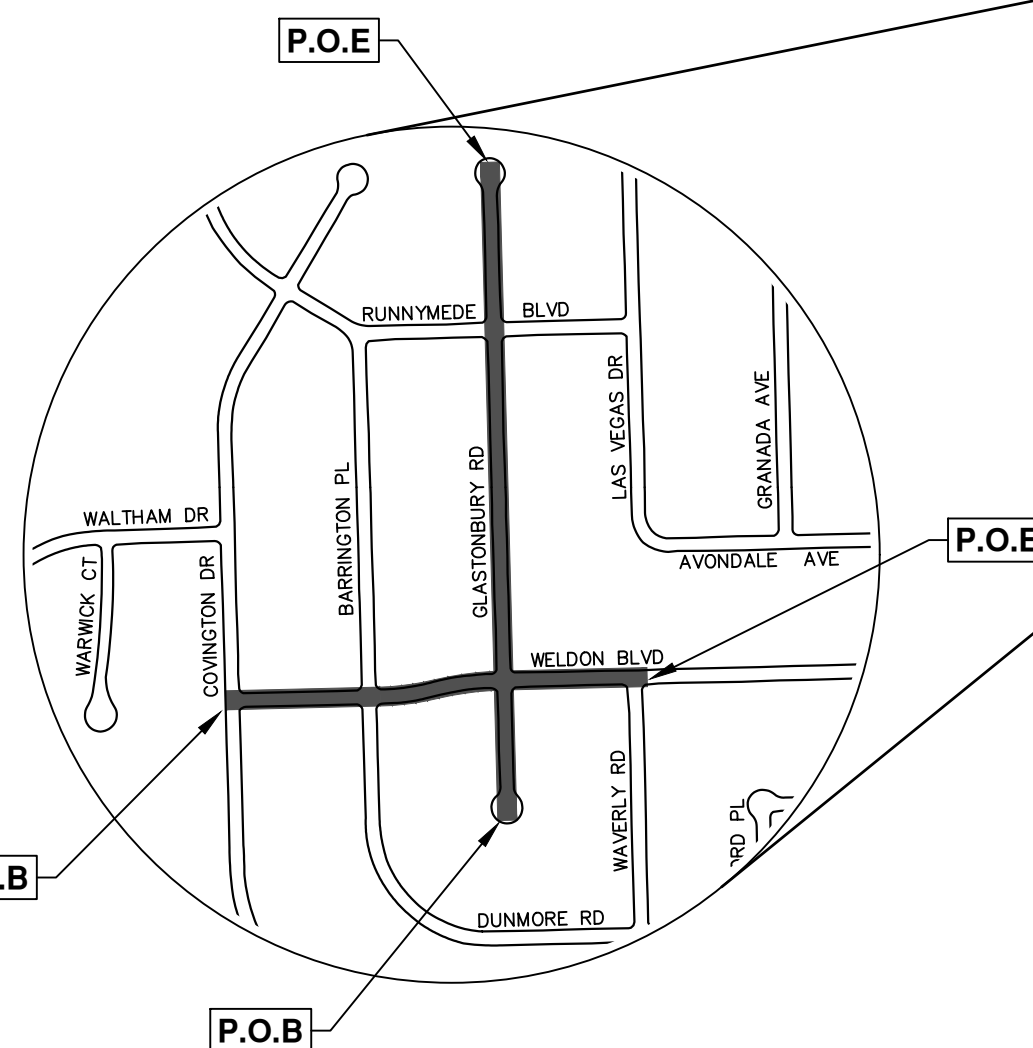
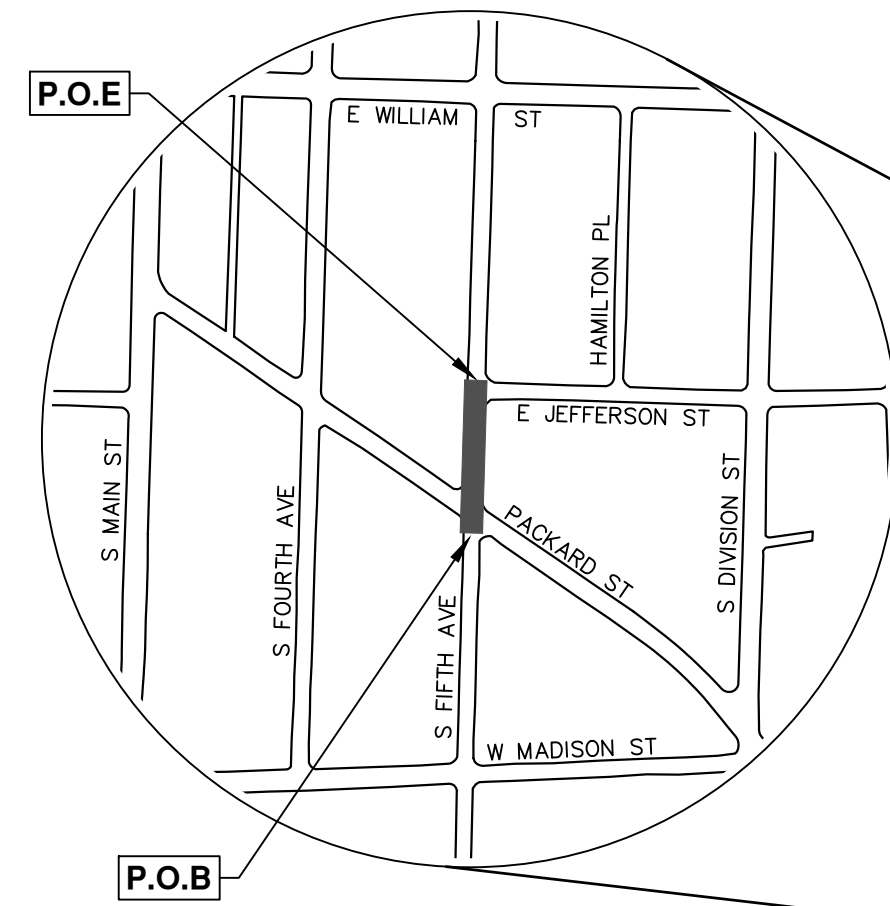
NOTES

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 NOT 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.

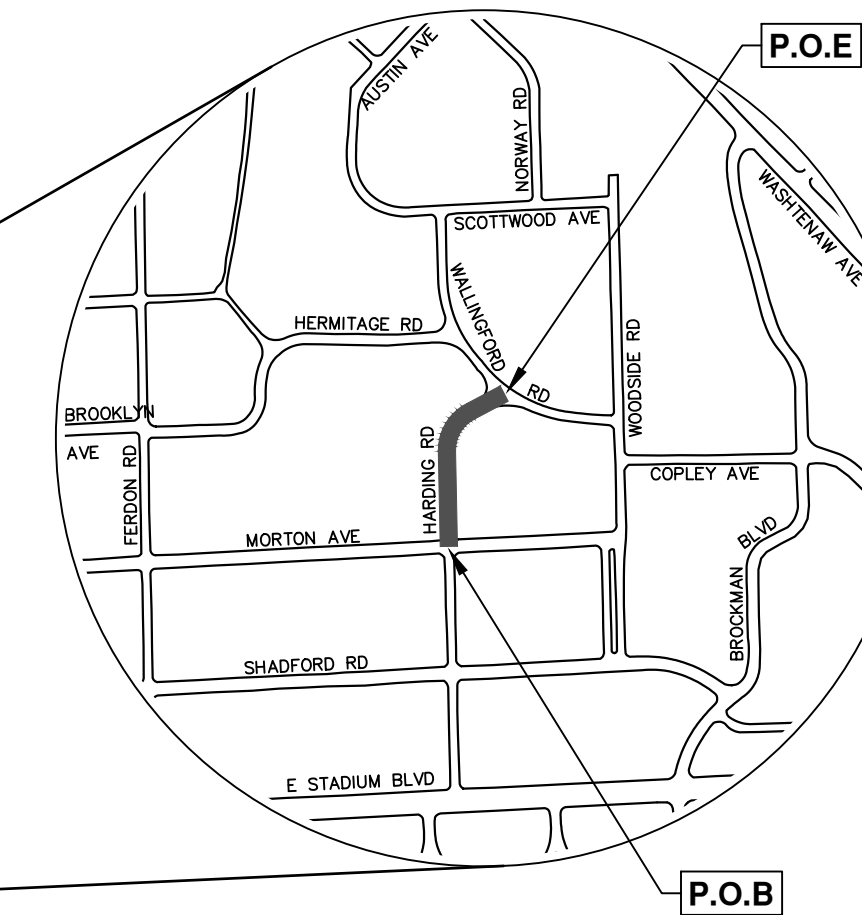
THE UNDERGROUND LOCATIONS SHOWN FOR NATURAL GAS, TELEPHONE, ELECTRICAL POWER, CABLE TV AND FIBER OPTIC LINES ARE APPROXIMATE. THE CITY OF ANN ARBOR ASSUMES NO RESPONSIBILITY FOR THEIR ACCURATE REPRESENTATION IN THIS DRAWING. MISS DIG MUST BE CONTACTED PRIOR TO CONSTRUCTION TO LOCATE THESE UTILITIES.

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.

RFP No. 25-01, FILE No. 2024006



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47	Sta. 4+50 - Sta. 9+00
48	Sta. 9+00 - Sta. 13+50
49	Sta. 13+50 - Sta. 16+00
Removals - S Fifth Ave	
50	Sta. 1+06 - Sta. 3+19
Water Main - S Fifth Ave	
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Storm - S Fifth Ave	
52	R-100, R-101, R-102



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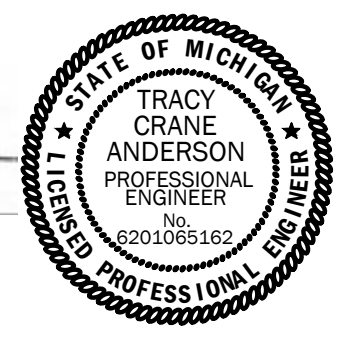
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PUBLIC SERVICES
301 EAST HURON STREET
ANN ARBOR, MI 48106-1667
www.a2gov.org



CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
THIS PROJECT INCLUDES WATER MAIN REPLACEMENT, STORM SEWER IMPROVEMENTS, SANITARY SEWER INSTALLATION AND REPLACEMENT, AND RESURFACING WITHIN THE RIGHT-OF-WAY OF HARDING RD (MORTON TO WALLINGFORD), GLASTONBURY RD (ENTIRETY), WELDON BLVD (CONVINGTON TO WAYERLY), AND FIFTH AVE (PACKARD TO JEFFERSON).

SCALE
DRAWING No. 2024006-1
SHEET No. 1 OF 52

PREPARED UNDER THE SUPERVISION OF
Tracy Anderson
TRACY ANDERSON, P.E. - MI LICENSE No. 6201065162
PROJECT MANAGER



1 / 2024
DATE

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CONSTRUCTION NOTES:

- 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.
- The location and depth of all existing utilities and service leads are to be field verified by the Contractor prior to construction.
- 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.
- The Contractor is to take special care to protect the existing water main and be responsible for maintaining consistent water service.
- 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".
- Trenches for new water services shall be excavated to MIOSHA and City of Ann Arbor Public Works requirements.
- 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.
- 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.
- 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.
- 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.
- "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.
- Postal delivery and refuse pickup service shall be maintained at all times by the Contractor.
- 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.
- Where street curbs are undermined due to construction activities, they shall be removed and replaced as directed by the Engineer.
- 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".
- All curb, sidewalk, driveway approach removals shall be approved by Engineer before the work is done.
- The location of material stock piles and on-site staging areas to be approved by the Engineer.
- 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.
- 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.

HARDING ROAD BENCHMARKS		
BM #	ELEV	DESCRIPTION
1	865.217	SE BOLT ON LIGHT POLE, NW COR. HARDING & STADIUM
2	870.237	SPIKE IN WEST FACE OF UTILITY POLE, WEST SIDE OF HARDING, IN FRONT OF HSE #1717
3	880.275	SPIKE IN WEST FACE OF UTILITY POLE, NE COR. OF HARDING & SHADFORD
4	891.905	SPIKE IN WEST FACE OF UTILITY POLE, SE COR. OF HARDING & MORTON
5	897.958	SPIKE IN NORTHERLY FACE OF UTILITY POLE, IN FRONT OF HSE #1521
6	898.723	SPIKE IN EAST FACE OF UTILITY POLE, SW COR. OF HARDING & WALLINGFORD

WELDON BOULEVARD BENCHMARKS		
BM #	ELEV	DESCRIPTION
1	952.191	SET SPIKE, EAST SIDE OF P. POLE SW COR. COVINGTON & WELDON
2	952.393	SET SPIKE, SOUTH SIDE OF P. POLE NE COR. BARRINGTON & WELDON
3	947.703	SET RR SPIKE, NE SIDE OF P. POLE SW COR. WAVERLY & WELDON

GLASTONBURY RD BENCHMARKS		
BM #	ELEV	DESCRIPTION
4	948.854	SET SPIKE, EAST SIDE OF P. POLE WEST SIDE OF GLASTONBURY, IN FRONT OF HSE #1712
5	952.370	SET SPIKE, EAST SIDE OF P. POLE WEST SIDE OF GLASTONBURY, IN FRONT OF HSE #1602
6	958.456	WEST FLANGE BOLT ON HYDRANT, WEST SIDE OF GLASTONBURY, IN FRONT OF HSE #1552
7	952.850	SET SPIKE, EAST SIDE OF P. POLE WEST SIDE OF GLASTONBURY, IN FRONT OF HSE #1534
8	969.204	NORTH SIDE, TOP OF CONC. WALL WEST SIDE OF GLASTONBURY, BETWEEN HSE #1444 & 1440

S FIFTH AVENUE BENCHMARKS		
BM #	ELEV	DESCRIPTION
1	856.478	SPIKE IN WEST FACE OF UTILITY POLE, NE COR OF 5TH AVE AND PACKARD
2	856.827	SPIKE IN WEST FACE OF UTILITY POLE, SE COR OF 5TH AVE AND JEFFERSON
3	855.130	SPIKE IN EAST FACE OF UTILITY POLE, EAST OF NORTH PROP. LINE OF HSE #438
4	854.320	NE BOLT OF LIGHT POLE ON THE SE COR OF 5TH AND WILLIAM

IMPERVIOUS PROJECT AREA	
PRIOR TO CONSTRUCTION = 2.56 ACRES	POST CONSTRUCTION = 2.47 ACRES

AREA OF PROPOSED DISTURBANCE = 2.64 ACRES

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	CITY OF ANN ARBOR PUBLIC WORKS W.R. WHEELER SERVICE CENTER 4251 STONE SCHOOL ROAD ANN ARBOR, MI 48108	(734) 794-6350
SANITARY		
STORM		
FORESTRY		
SIGNS SIGNALS STREET LIGHTS	CITY OF ANN ARBOR INFORMATION TECHNOLOGY LARCUM CITY HALL 301 E. HURON STREET ANN ARBOR, MI 48107	MARK MORENO (734) 794-6361
FIBER OPTIC	CITY OF ANN ARBOR INFORMATION TECHNOLOGY LARCUM 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 48932	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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301 EAST HURON STREET
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2025 MISCELLANEOUS UTILITY PROJECTS

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

SCALE: NTS

DRAWING No. 2024006-2

SHEET No. 2 OF 52

STANDARD NOTES

REV. 01

DESCRIPTION

DATE 12/12/24

A2D DRAWN

TA CHECKED

EXISTING LEGEND

EX = EXISTING		
⊕ FIRE HYDRANT		WATER MAIN
I GATE VALVE IN BOX		WATER MAIN ABANDONED
⊗ GATE VALVE IN WELL		STORM SEWER
⊙ STOP BOX		STORM SEWER ABANDONED
⊚ WATER VAULT		SANITARY SEWER
⊙ WELL		SANITARY SEWER ABANDONED
⊠ CATCH BASIN (SQ)		GAS MAIN
⊕ CATCH BASIN (RD)		GAS MAIN (DEAD)
○ STORM MANHOLE		ELECTRICAL OVER HEAD
⊠ NON-CURB CATCH BASIN (SQ)		ELECTRICAL UNDER GROUND
) END SECTION		ELECTRICAL DUCT BANK
○ SANITARY MANHOLE		TELEPHONE OVER HEAD
○ CLEAN-OUT		TELEPHONE UNDER GROUND
• POST		TELEPHONE DUCT BANK
⊕ PEDESTRIAN SIGNAL		CABLE TV OVER HEAD
⊡ SIGN		CABLE TV UNDER GROUND
⊠ HAND HOLE		FIBER OPTIC
⊕ ORNAMENTAL LIGHT		FIBER OPTIC DUCT BANK
⊕ FLOOD LIGHT	_____	BOUNDARY
⊙ UNKNOWN MANHOLE		BUILDING
⊙ TELEPHONE MANHOLE		CENTERLINE OF DITCH
⊠ TELEPHONE RISER		CENTERLINE/CROWN OF ROAD
⊙ GAS VALVE		CONTOUR MAJOR
⊙ GAS VENT		CONTOUR MINOR
⊠ GAS BOX		EDGE OF WATER
⊠ ELECTRICAL RISER		FLOODPLAIN
⊠ TRANSFORMER		FENCE
⊕ UTILITY POLE		GRAVEL
○ LAMP POLE		GUARDRAIL
▽ GUY ANCHOR		STONE WALL
○ GUY POLE		R.O.W.
⊙ MONITORING WELL		TREELINE
⊠ MAILBOX		WETLAND
⊙ SOIL BORING		EDGE OF BRUSH
△ TRAVERSE POINT		HEDGE
⊕ BENCH MARK		TREE (DECIDUOUS)
○ IRON PIPE		TREE (CONIFEROUS)
⊠ MON BOX		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 MAIN
⊗ WATER GATE VALVE IN WELL		STORM SEWER
⊕ WATER GATE VALVE IN BOX		SANITARY SEWER
⊙ WATER STOP BOX		FIBER OPTIC
⊠ WATER VAULT		ELECTRICAL
● INLET		CENTERLINE OF DITCH
⊕ HIGH CAPACITY INLET		CENTERLINE OF ROAD
● INLET JUNCTION CHAMBER		FENCE
● ROUND CATCH BASIN		GRAVEL
⊙ STORM MANHOLE		SILT FENCE
→ DRAIN ARROW		PROTECTIVE FENCE
⊠ FLARED END SECTION		GUARDRAIL
⊠ OVERFLOW		LOT/UNIT
⊙ SANITARY MANHOLE		CURB
○ CLEAN-OUT		TEMPORARY GRADING PERMIT
● BARREL		CONTOUR MAJOR
↑ SIGN		CONTOUR MINOR
⊖ PUSH BUTTON		WATER EASEMENT
■ HAND HOLE		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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01	BID SET	12/12/24	AZD	TA

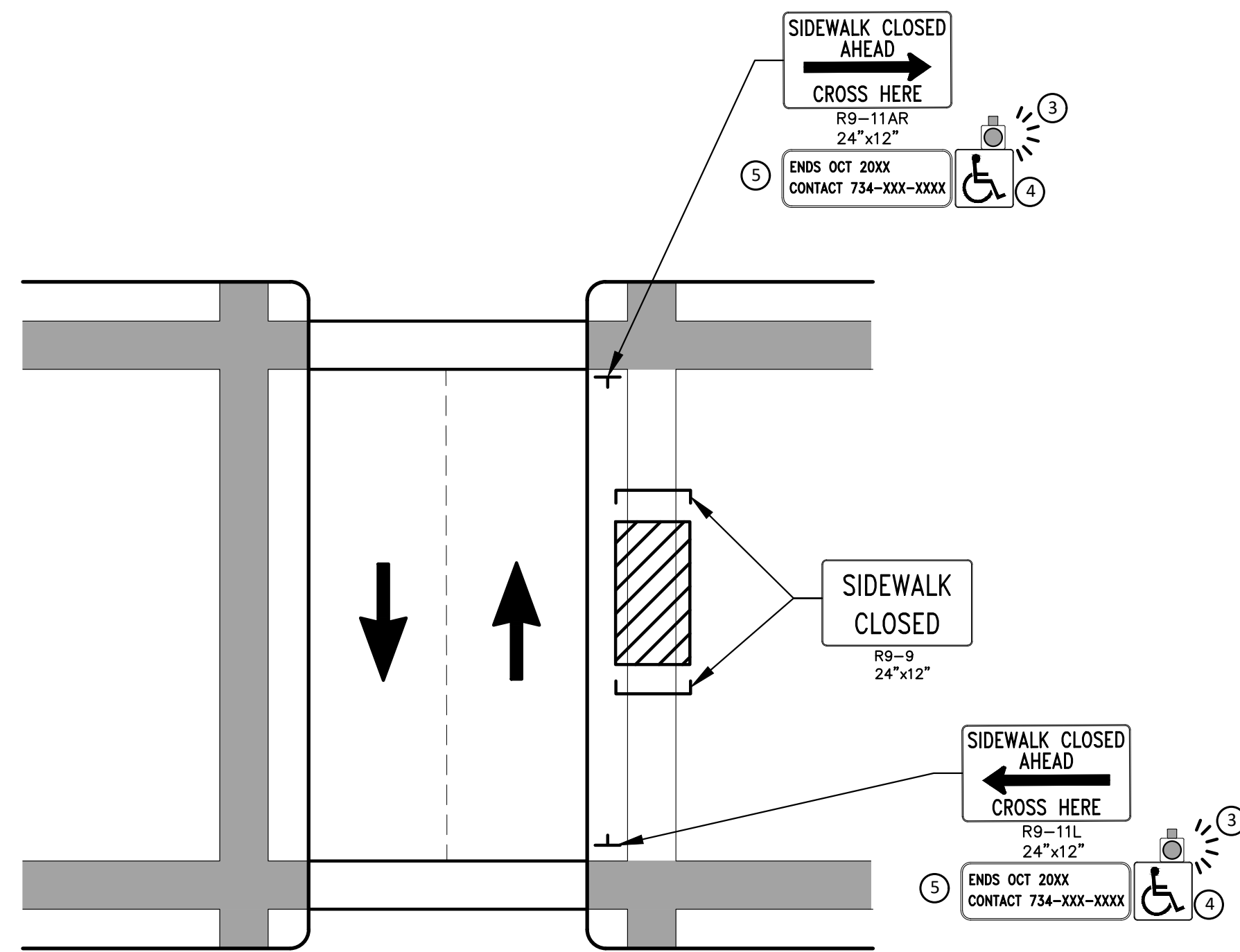
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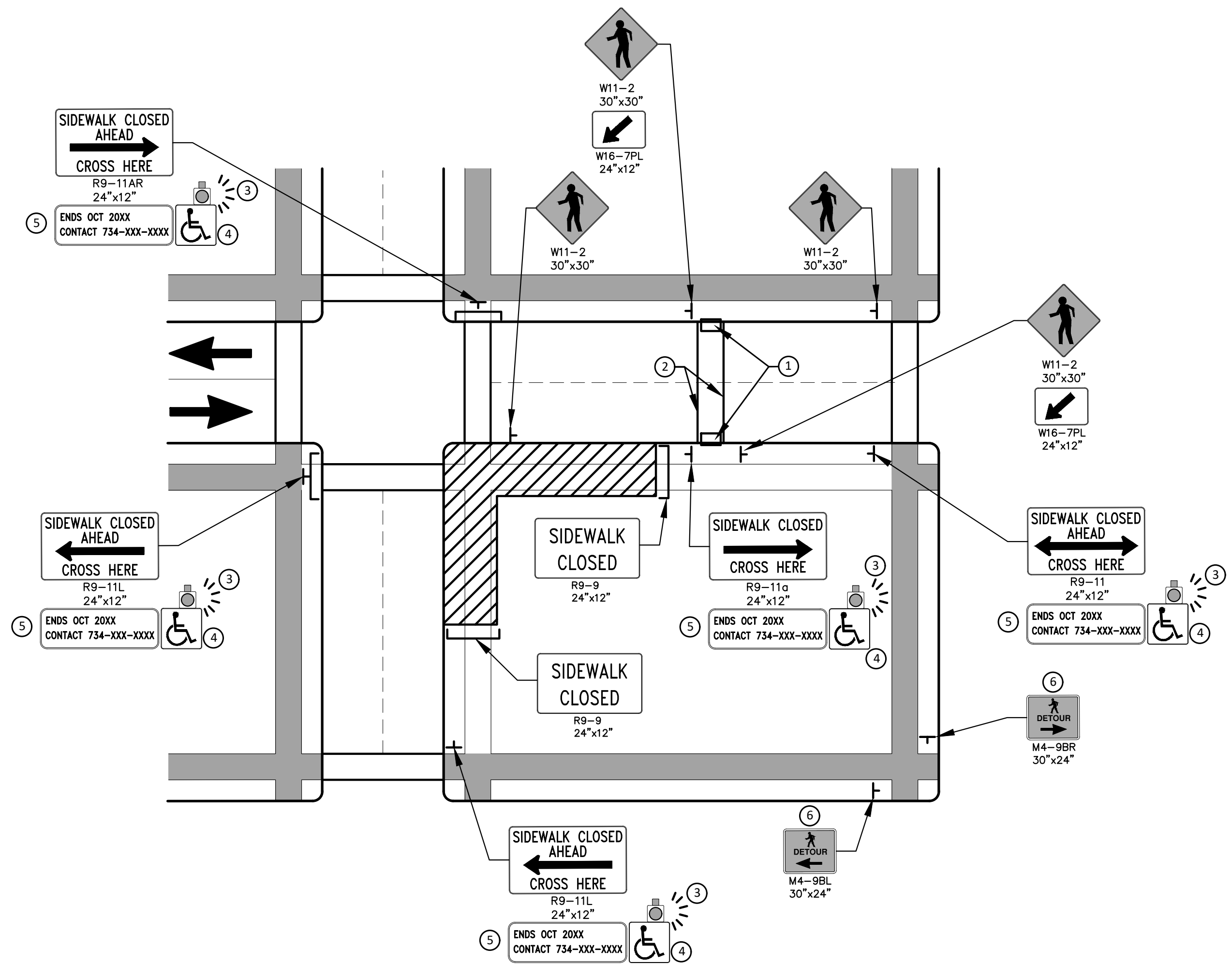
CITY OF ANN ARBOR - ENGINEERING
2025 MISCELLANEOUS UTILITY PROJECTS
LEGEND

SHEET No.	3 OF 52
SCALE : NTS	
DRAWING No.	2024006-3

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PEDESTRIAN DETOUR USING OPPOSITE SIDE OF STREET



OTHER SIDE OF STREET DETOUR OR DETOUR WITH TRAILBLAZING SIGNS
(FOR CORNER SIDEWALK CLOSURE WITH OPTIONAL TEMPORARY CROSSWALK)

GENERAL NOTES

WHEN CLOSING OR RELOCATING CROSSWALKS OR SIDEWALKS, THE CONTRACTOR SHALL PROVIDE DETECTABLE TEMPORARY FACILITIES AND INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH EXISTING PEDESTRIAN FACILITIES.

TEMPORARY TRAFFIC CONTROL DEVICES FOR PEDESTRIANS ARE SHOWN. OTHER DEVICES MAY BE NECESSARY TO CONTROL VEHICULAR TRAFFIC. STAGE WORK, AS NECESSARY, TO PROVIDE AN ALTERNATE PEDESTRIAN ROUTE (APR) AT ALL TIMES. FOR ROADWAYS WITH NO AVAILABLE DETOURS, MAINTAIN ONE OPEN SIDEWALK AT ALL TIMES.

PROVIDE A SMOOTH, CONTINUOUS, HARD SURFACE THROUGH THE LENGTH OF THE APR. COMPACTED GRAVEL, AGGREGATE, OR SLAG MATERIALS ARE NOT ALLOWED. PROVIDE A FIRM, STABLE, AND SLIP RESISTANT TEMPORARY WALKWAY SURFACE TO COVER SHORT SEGMENTS OF ROUGH, SOFT, OR UNEVEN GROUND.

THE PEDESTRIAN TRAFFIC SIGNALS CONTROLLING CLOSED CROSSWALKS SHALL BE COVERED OR DEACTIVATED BY THE CITY OF ANN ARBOR. THE CONTRACTOR SHALL SCHEDULE AND COORDINATE THIS WORK WITH THE ENGINEER A MINIMUM OF 72 HOURS (NOT INCLUDING WEEKENDS & HOLIDAYS) PRIOR TO THE BEGINNING OF WORK THAT REQUIRES A SIDEWALK CLOSURE.

POST MOUNTED SIGNS LOCATED ADJACENT TO A SIDEWALK SHALL HAVE A 7 FOOT MINIMUM CLEARANCE FROM THE BOTTOM OF THE SIGN TO THE SIDEWALK SURFACE.

WHEN THE ENGINEER DETERMINES THAT THE CONTRACTOR'S OPERATIONS OR PLACEMENT OF TRAFFIC CONTROL DEVICES HAS CAUSED A SITUATION THAT THE VISIBILITY OF IS REDUCED ENOUGH TO CREATE A HAZARD, THE TRAFFIC CONTROL DEVICES SHALL BE DELINEATED WITH FLAGS OR OTHER ENGINEER-APPROVED DEVICES AT NO ADDITIONAL COST TO THE PROJECT.

MINIMIZE DISRUPTION TO PEDESTRIANS TO THE MAXIMUM EXTENT FEASIBLE BY PROVIDING AN APR IN THE FOLLOWING ORDER OF PREFERENCE:

1. PROVIDE THE APR ON THE SAME SIDE OF THE STREET AS THE DISRUPTED ROUTE UTILIZING BYPASSES.
2. WHERE IT IS NOT FEASIBLE TO PROVIDE A SAME SIDE APR, PROVIDE A DETOUR ON THE OTHER SIDE OF THE STREET.
3. WHERE IT IS NOT FEASIBLE TO PROVIDE AN APR ON THE OTHER SIDE OF THE ROADWAY, PROVIDE AN APR DETOUR WITH TRAILBLAZING SIGNS AS SHOWN ON THE PROJECT PLANS.

SPECIFIC NOTES

1. TEMPORARY CURB RAMPS WITH DETECTABLE WARNINGS.
2. TEMPORARY PAVEMENT MARKING FOR CROSSWALK LINES.
3. AN APPROVED AUDIBLE MESSAGE DEVICE OR TACTILE MESSAGE SHALL BE PROVIDED FOR SIGHT-IMPAIRED PEDESTRIANS.
4. THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHOULD BE DISPLAYED WHEN ANY WALKWAY THROUGH A WORK ZONE HAS BEEN DETERMINED TO BE TPAR COMPLIANT. THE SYMBOL OF ACCESSIBILITY SHALL NOT BE DISPLAYED IF PERSONS WITH DISABILITIES SHOULD NOT USE THE PRIMARY TEMPORARY PEDESTRIAN DETOUR. THE REASON FOR THE NON-COMPLIANCE SHALL BE POSTED AND AN ALTERNATE ROUTE SHALL BE POSTED WHEN THE PRIMARY TEMPORARY PEDESTRIAN DETOUR IS NON-COMPLIANT TO TPAR STANDARDS.
5. TYPICAL SIGN MESSAGE FOR A TEMPORARY PEDESTRIAN DETOUR SHALL INCLUDE INFORMATION SUCH AS THE DURATION OF THE WALKWAY RESTRICTIONS (BEGINNING AND/OR END DATES) AND A PROJECT CONTACT NUMBER FOR 24 / 7 QUESTIONS OR REPORTING HAZARDS.
6. PEDESTRIAN DETOUR TRAILBLAZING SIGNS SHALL BE USED IF THE PEDESTRIAN DETOUR IS IN A LOCATION OTHER THAN ACROSS THE STREET FROM THE SIDEWALK CLOSURE.

PEDESTRIAN TEMPORARY TRAFFIC CONTROL NOTES

1. THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN THROUGH MOVEMENTS FROM ONE END OF THE CONSTRUCTION AREA TO THE OTHER, ON AT LEAST ONE SIDE OF THE STREET DURING CONSTRUCTION. ANY SIDEWALK CLOSURES SHALL MEET THE REQUIREMENTS OF THE MMUTCD, PART 6.
2. PEDESTRIAN ACCESS SHALL BE PROVIDED TO ALL ADJACENT PROPERTIES, BUILDINGS, RESIDENCES AND COMMERCIAL PROPERTIES AT ALL TIMES. THIS MAY INCLUDE TEMPORARY WALKWAYS SPANNING THE CONSTRUCTION AREA.
3. IF SIDEWALKS ARE CLOSED, A TEMPORARY PEDESTRIAN ACCESS ROUTE (TPAR) SHALL BE PROVIDED ON THE SAME SIDE OF THE ROAD AS THE CLOSED SIDEWALK, IF POSSIBLE. SIGNS AND BARRICADES SHALL BE USED TO PROVIDE ADVANCE NOTICE OF THE CLOSURE AND THE ROUTE OF ANY PEDESTRIAN DETOURS. THE TPAR SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF 4 FEET. IF THE TPAR IS LESS THAN 5 FEET IN WIDTH, A 5 FOOT BY 5 FOOT PASSING SPACE SHALL BE PROVIDED AT LEAST EVERY 200 FEET. THE SURFACE OF THE TPAR SHALL BE SMOOTH AND CONTINUOUS FOR THE LENGTH OF THE TPAR. THE TPAR SHALL MAINTAIN THE SAME LEVEL OF ACCESSIBILITY AND DETECTABILITY AS THE FACILITY THAT IS BEING CLOSED. THE TPAR SHALL NOT LEAD PEDESTRIANS INTO CONFLICTS WITH VEHICLES, EQUIPMENT, OR CONSTRUCTION OPERATIONS.
4. IF THE TPAR IS ADJACENT TO MOVING TRAFFIC, CONSTRUCTION OPERATIONS/EQUIPMENT, OR DROP-OFFS, THEN CRASH WORTHY CHANNELIZING DEVICES THAT MEET THE REQUIREMENTS OF NCHRP 350 AND THE MMUTCD SHALL BE USED.
5. THE CONTRACTOR SHALL NOT STORE OR PLACE ANY CONSTRUCTION MATERIALS, EQUIPMENT OR SIGNS IN THE PEDESTRIAN PATH OF TRAVEL.
6. THE CONTRACTOR'S OPERATIONS SHALL NOT OCCUPY SIDEWALKS EXCEPT WHERE PROPER PROTECTION AND A TPAR HAVE BEEN PROVIDED.
7. WHEN DIRECTED BY THE ENGINEER, OR STATED ON THE PLANS, THE CONTRACTOR SHALL PROVIDE A TEMPORARY PEDESTRIAN TRAFFIC CONTROL PLAN FOR REVIEW AND WRITTEN APPROVAL BY THE ENGINEER A MINIMUM OF THREE WEEKS BEFORE SUCH PLAN IS IMPLEMENTED. THIS PLAN SHALL DETAIL THE CONSTRUCTION PHASING AND SCHEDULE AND THE SPECIFIC METHODS OF MAINTAINING SAFE PEDESTRIAN ACCESS THROUGHOUT THE CONSTRUCTION AREA. THIS PLAN SHALL PROVIDE THE LOCATION AND DETAILS OF TEMPORARY CONSTRUCTION SIGNING, MARKINGS, BARRICADES, CHANNELIZING DEVICES, TPARS AND METHODS TO MAINTAIN ACCESS TO ADJACENT PROPERTIES, BUSINESSES, RESIDENCES, ETC. NO WORK SHALL BE ALLOWED TO BEGIN UNTIL THIS PLAN IS APPROVED BY THE ENGINEER IN WRITING.
8. PROVISION OF THE TPAR AND ALL OF ITS ELEMENTS, INCLUDING BUT NOT LIMITED TO, CREATION OF THE TEMPORARY PEDESTRIAN CONTROL PLAN, SIGNS, CHANNELIZING DEVICES, BARRICADES, TEMPORARY PAVEMENT MARKINGS AND OTHER TRAFFIC CONTROL DEVICES SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE ITEM OF WORK "MINOR TRAF DEVICES."

LEGEND

- SIGN
- EXISTING PEDESTRIAN SURFACE
- WORK AREA
- PEDESTRIAN CHANNELIZATION DEVICE
- BARRIER
- SIDEWALK BARRICADE
- DIRECTION OF TRAFFIC
- TRAFFIC CONTROL DEVICE



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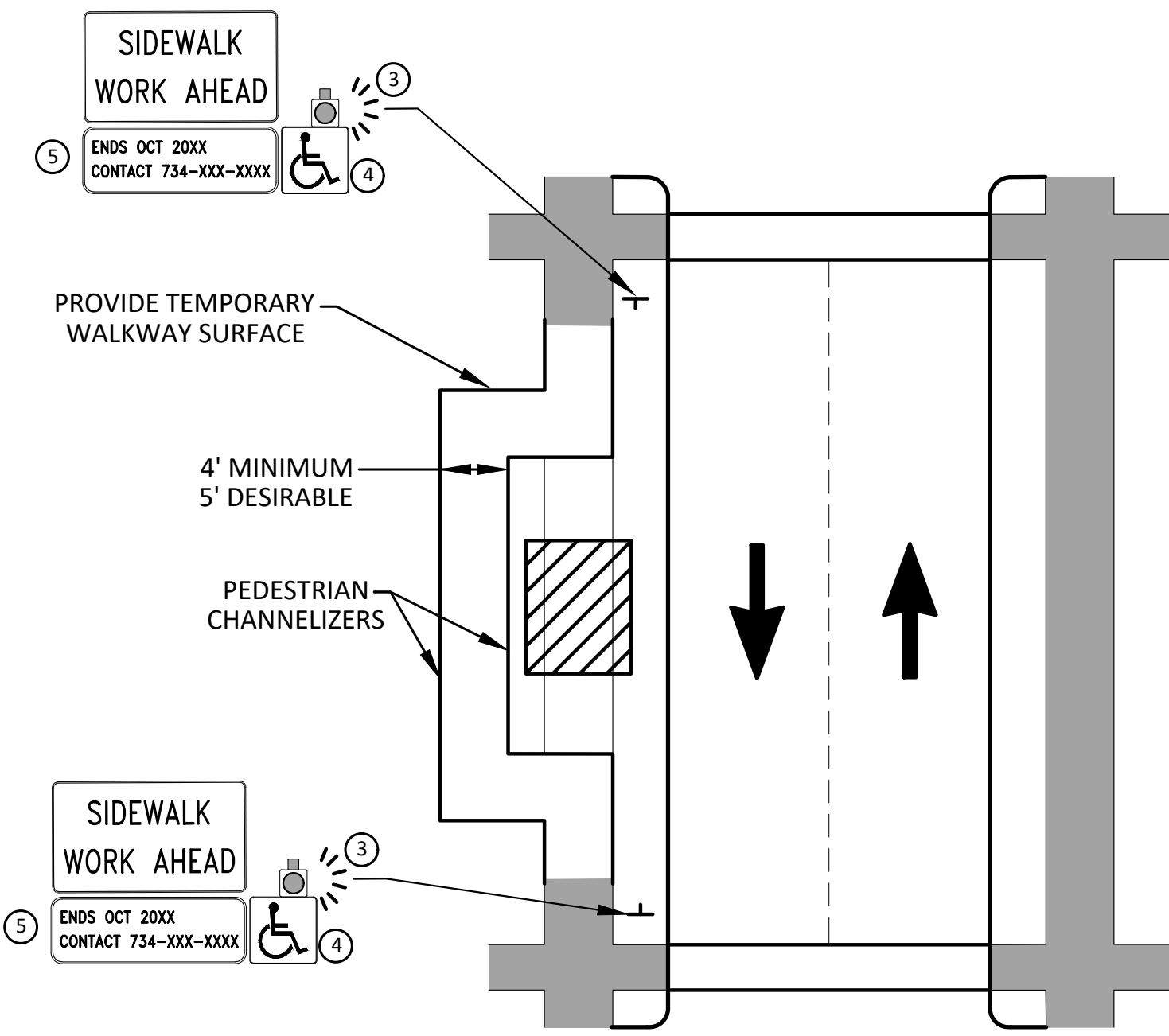
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2025 MISCELLANEOUS UTILITY PROJECTS
ALTERNATE PEDESTRIAN ROUTE (APR) DETOUR

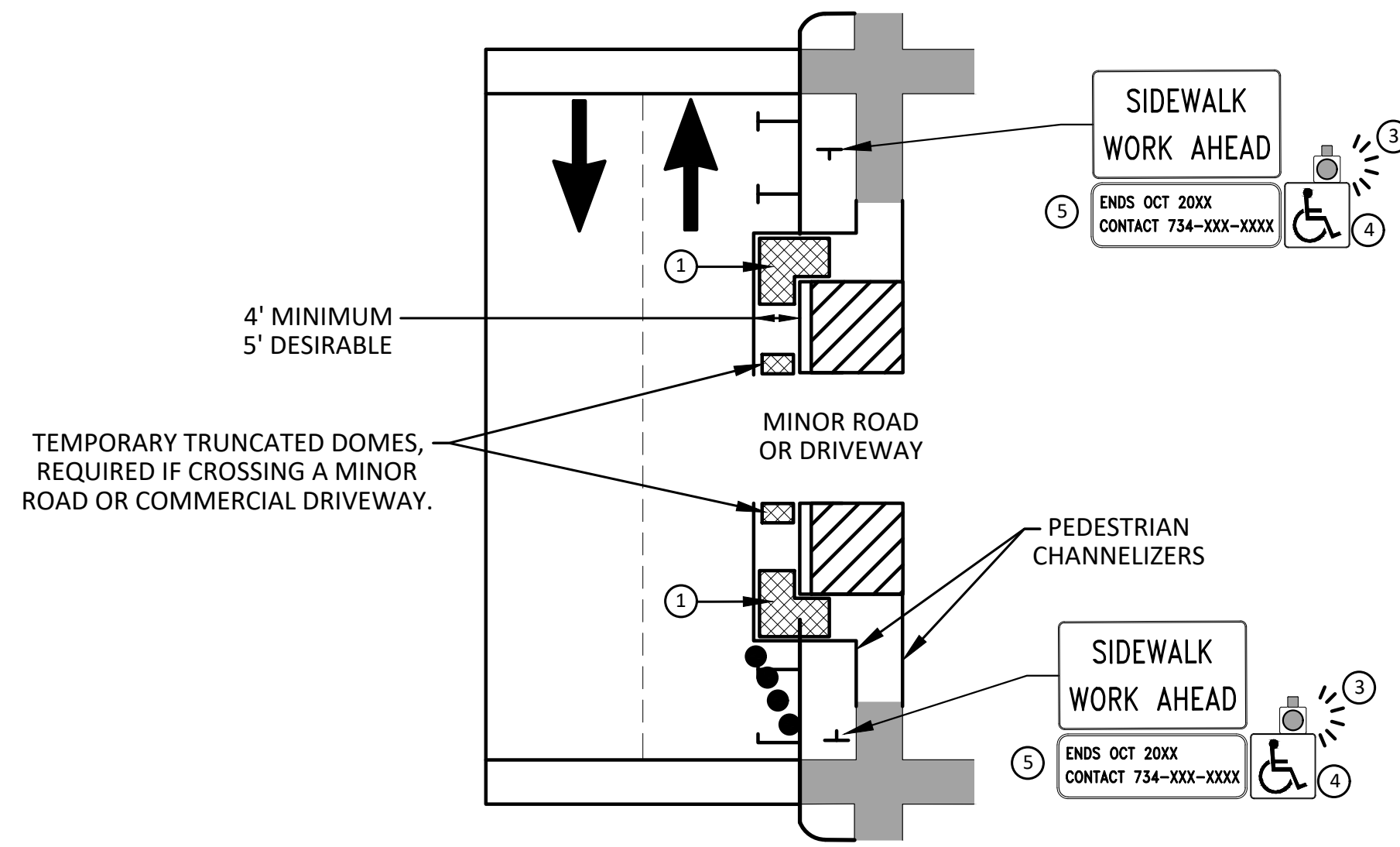
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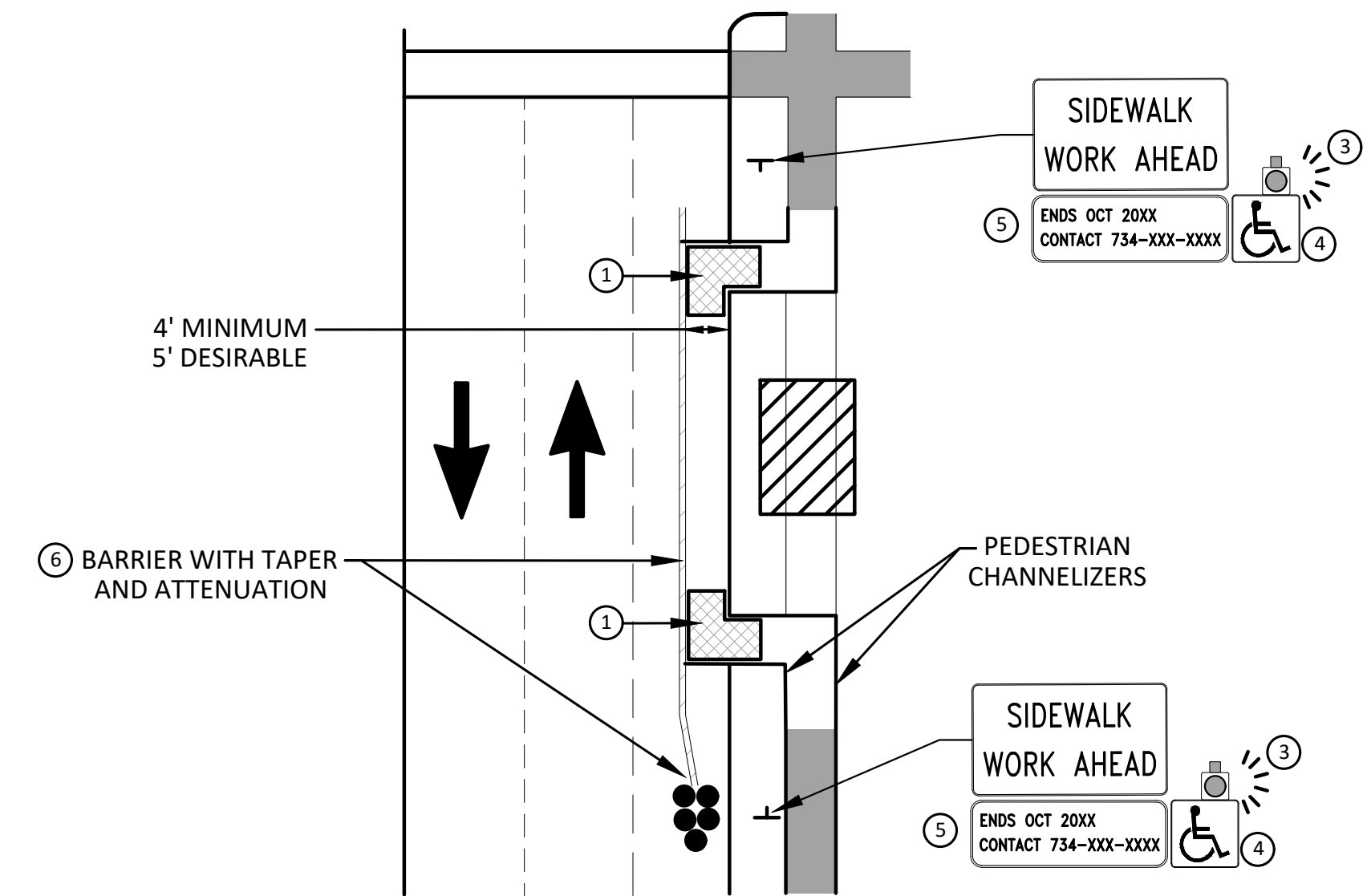


**BYPASS ON ADJACENT AVAILABLE
RIGHT OF WAY**
BYPASS TYPE A

NOTE: MAY ONLY BE USED ON ROADWAY WITH POSTED
SPEED OF 45 MPH OR LESS.



**SIDEWALK BYPASS USING PARKING OR
SHOULDER ON LOW SPEED ROADWAY**
BYPASS TYPE B



**SIDEWALK BYPASS USING
SHOULDER OR PARKING LANE ON
HIGH SPEED ROADWAY**
BYPASS TYPE C

GENERAL NOTES

WHEN CLOSING OR RELOCATING CROSSWALKS OR SIDEWALKS, THE CONTRACTOR SHALL PROVIDE DETECTABLE TEMPORARY FACILITIES AND INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH EXISTING PEDESTRIAN FACILITIES.

TEMPORARY TRAFFIC CONTROL DEVICES FOR PEDESTRIANS ARE SHOWN. OTHER DEVICES MAY BE NECESSARY TO CONTROL VEHICULAR TRAFFIC. STAGE WORK, AS NECESSARY, TO PROVIDE AN ALTERNATE PEDESTRIAN ROUTE (APR) AT ALL TIMES. FOR ROADWAYS WITH NO AVAILABLE DETOURS, MAINTAIN ONE OPEN SIDEWALK AT ALL TIMES.

PROVIDE A SMOOTH, CONTINUOUS, HARD SURFACE THROUGH THE LENGTH OF THE APR. COMPACTED GRAVEL, AGGREGATE, OR SLAG MATERIALS ARE NOT ALLOWED. PROVIDE A FIRM, STABLE, AND SLIP RESISTANT TEMPORARY WALKWAY SURFACE TO COVER SHORT SEGMENTS OF ROUGH, SOFT, OR UNEVEN GROUND.

THE PEDESTRIAN TRAFFIC SIGNALS CONTROLLING CLOSED CROSSWALKS SHALL BE COVERED OR DEACTIVATED BY THE CITY OF ANN ARBOR. THE CONTRACTOR SHALL SCHEDULE AND COORDINATE THIS WORK WITH THE ENGINEER A MINIMUM OF 72 HOURS (NOT INCLUDING WEEKENDS & HOLIDAYS) PRIOR TO THE BEGINNING OF WORK THAT REQUIRES A SIDEWALK CLOSURE.

POST MOUNTED SIGNS LOCATED ADJACENT TO A SIDEWALK SHALL HAVE A 7 FOOT MINIMUM CLEARANCE FROM THE BOTTOM OF THE SIGN TO THE SIDEWALK SURFACE.

WHEN THE ENGINEER DETERMINES THAT THE CONTRACTOR'S OPERATIONS OR PLACEMENT OF TRAFFIC CONTROL DEVICES HAS CAUSED A SITUATION THAT THE VISIBILITY OF A TRAFFIC CONTROL DEVICE IS REDUCED ENOUGH TO CREATE A HAZARD, THE TRAFFIC CONTROL DEVICES SHALL BE DELINEATED WITH FLAGS OR OTHER ENGINEER-APPROVED DEVICES AT NO ADDITIONAL COST TO THE PROJECT.

MINIMIZE DISRUPTION TO PEDESTRIANS TO THE MAXIMUM EXTENT FEASIBLE BY PROVIDING AN APR IN THE FOLLOWING ORDER OF PREFERENCE:

1. PROVIDE THE APR ON THE SAME SIDE OF THE STREET AS THE DISRUPTED ROUTE UTILIZING BYPASSES.
2. WHERE IT IS NOT FEASIBLE TO PROVIDE A SAME SIDE APR, PROVIDE A DETOUR ON THE OTHER SIDE OF THE STREET.
3. WHERE IT IS NOT FEASIBLE TO PROVIDE AN APR ON THE OTHER SIDE OF THE ROADWAY, PROVIDE AN APR DETOUR WITH TRAILBLAZING SIGNS AS SHOWN ON THE PROJECT PLANS.

SPECIFIC NOTES

- 1 TEMPORARY CURB RAMPS WITH DETECTABLE WARNINGS.
- 2 S DEVICE TAPER 25 FEET LONG, RECOMMENDED WHEN THE CLOSED AREA WAS USED AS AN INTERMITTENT TRAFFIC LANE OR BYPASS LANE. STREET PARKING SHALL BE PROHIBITED FOR AT LEAST 50 FEET IN ADVANCE OF THE MID-BLOCK CROSSWALK.
- 3 AN APPROVED AUDIBLE MESSAGE DEVICE OR TACTILE MESSAGE SHOULD BE PROVIDED FOR SIGHT-IMPAIRED PEDESTRIANS.
- 4 THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL BE DISPLAYED WHEN ANY WALKWAY THROUGH A WORK ZONE HAS BEEN DETERMINED TO BE TPAR COMPLIANT. THE SYMBOL OF ACCESSIBILITY SHALL NOT BE DISPLAYED IF PERSONS WITH DISABILITIES SHOULD NOT USE THE PRIMARY TEMPORARY PEDESTRIAN DETOUR. THE REASON FOR THE NON-COMPLIANCE SHALL BE POSTED AND AN ALTERNATE ROUTE SHALL BE POSTED WHEN THE PRIMARY TEMPORARY PEDESTRIAN DETOUR IS NON-COMPLIANT TO TPAR STANDARDS.
- 5 TYPICAL SIGN MESSAGE FOR A TEMPORARY PEDESTRIAN DETOUR SHALL INCLUDE INFORMATION SUCH AS THE DURATION OF THE WALKWAY RESTRICTIONS (BEGINNING AND/OR END DATES) AND A PROJECT CONTACT NUMBER FOR 24 / 7 QUESTIONS OR REPORTING HAZARDS.
- 6 SEE MMUTCD FOR GUIDANCE ON PLACEMENT AND USAGE OF BARRIER.

LEGEND

- SIGN
- EXISTING PEDESTRIAN SURFACE
- WORK AREA
- PEDESTRIAN CHANNELIZATION DEVICE
- BARRIER
- SIDEWALK BARRICADE
- DIRECTION OF TRAFFIC
- TRAFFIC CONTROL DEVICE



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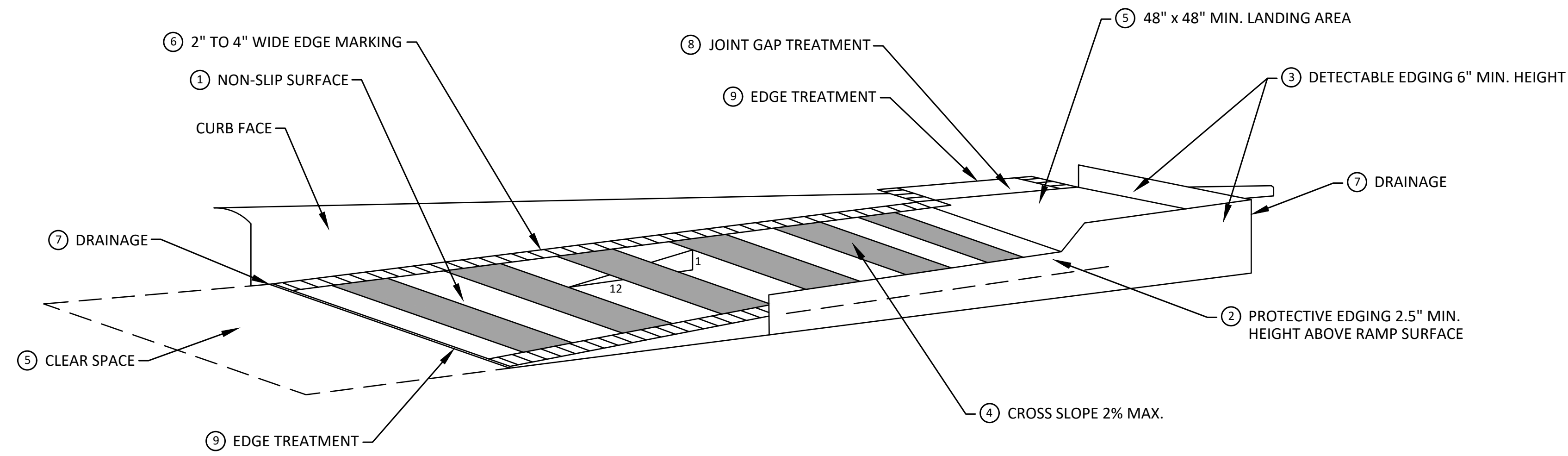
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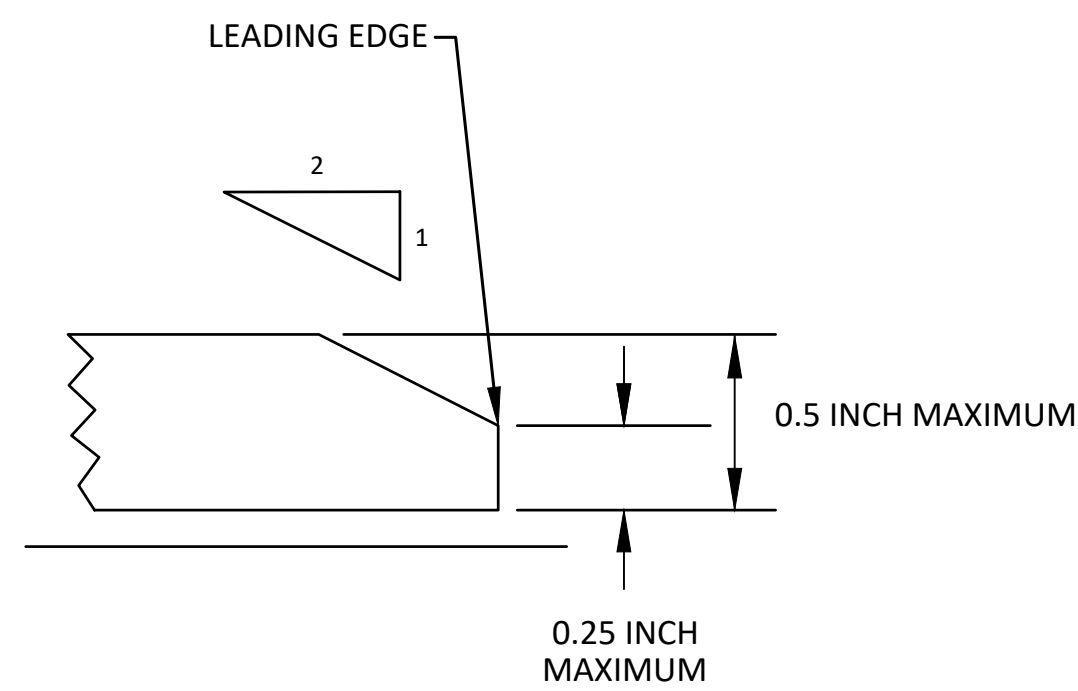
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2025 MISCELLANEOUS UTILITY PROJECTS
ALTERNATE PEDESTRIAN ROUTE (APR) BYPASS

SCALE: N.T.S.
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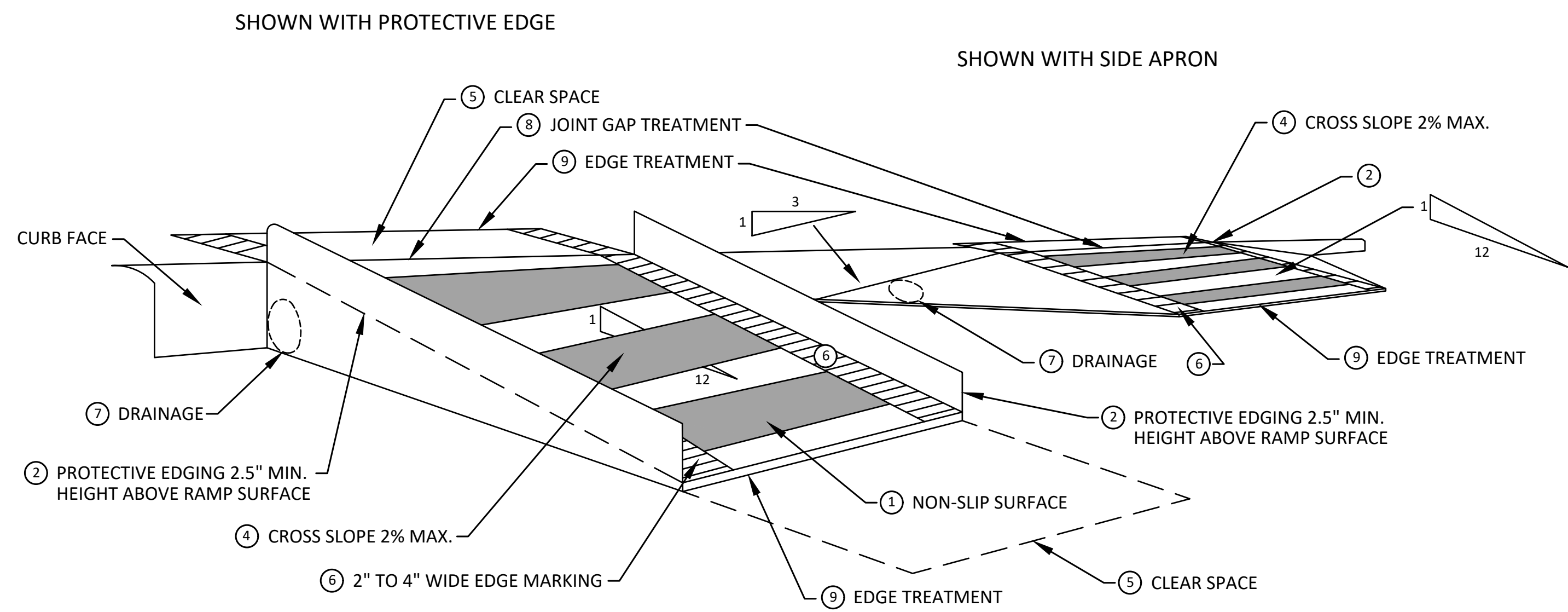
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**TEMPORARY CURB RAMP
PARALLEL TO CURB**



EDGE TREATMENT



**TEMPORARY CURB RAMP
PERPENDICULAR TO CURB**

SPECIFIC NOTES

- 1 CURB RAMPS SHALL BE 48" MIN. WIDTH WITH A FIRM, STABLE AND SLIP RESISTANT SURFACE. PROTECTIVE EDGING WITH A 2.5" MIN. HEIGHT ABOVE THE RAMP SHALL BE PLACED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3. PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.
- 2 DETECTABLE EDGING ANYTIME A HANDRAIL IS REQUIRED, AND ANYTIME THE PATH CHANGES DIRECTION. THIS INCLUDES A TURN ONTO THE RAMP FROM THE PATH. DETECTABLE EDGING MUST BEGIN A MAXIMUM OF 2.5' ABOVE THE RAMP SURFACE, AND EXTEND AT LEAST 6' ABOVE THE RAMP SURFACE. CONTRASTING COLOR SHALL BE PLACED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).
- 3 CURB RAMPS AND LANDINGS SHALL HAVE A 2% MAX. CROSS SLOPE.
- 4 CLEAR SPACE OF 48" x 48" MIN. SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.
- 5 THE CURB RAMP WALKWAY EDGE SHALL BE MARKED WITH A CONTRASTING COLOR, 2" TO 4" WIDE MARKING. THE MARKING IS OPTIONAL WHERE COLOR CONTRASTING EDGING IS USED.
- 6 WATER FLOW IN THE GUTTER SYSTEM SHALL NOT BE IMPEDED.
- 7 LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN 1/2" WIDTH.
- 8 CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED 1/2". LATERAL EDGES SHOULD BE VERTICAL UP TO 1/4" HIGH, AND BEVELED AT 1:2 BETWEEN 1/4" AND 1/2" HEIGHT.



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2025 MISCELLANEOUS UTILITY PROJECTS
TPAR RAMPS

SCALE: N.T.S.
DRAWING No. 2024006-6

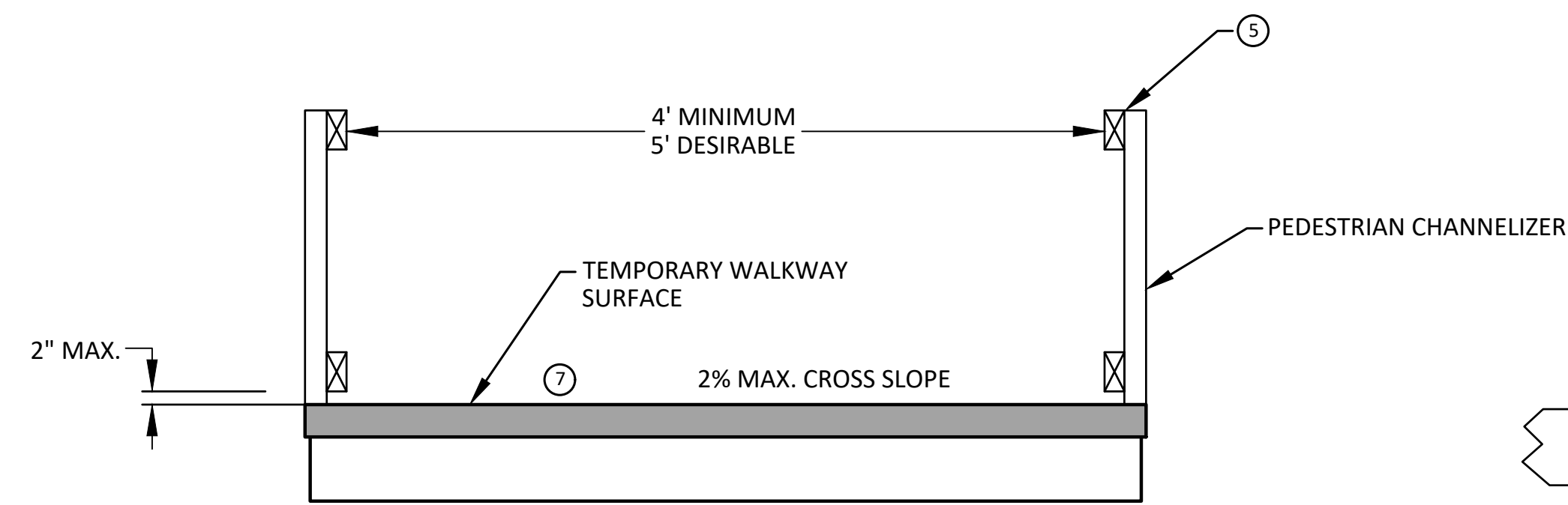
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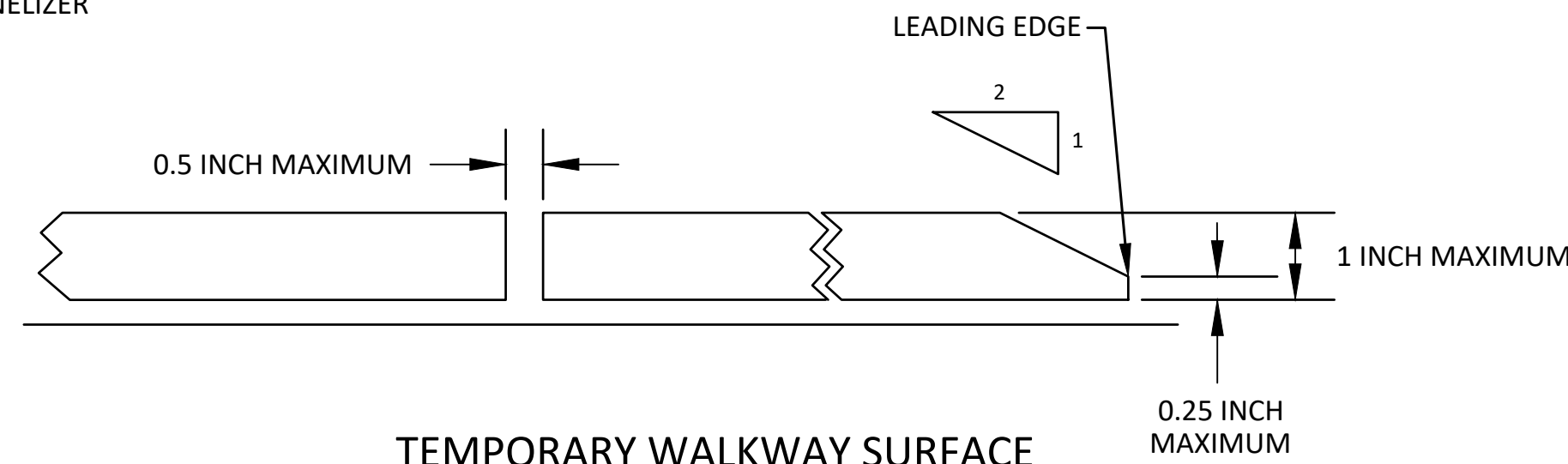
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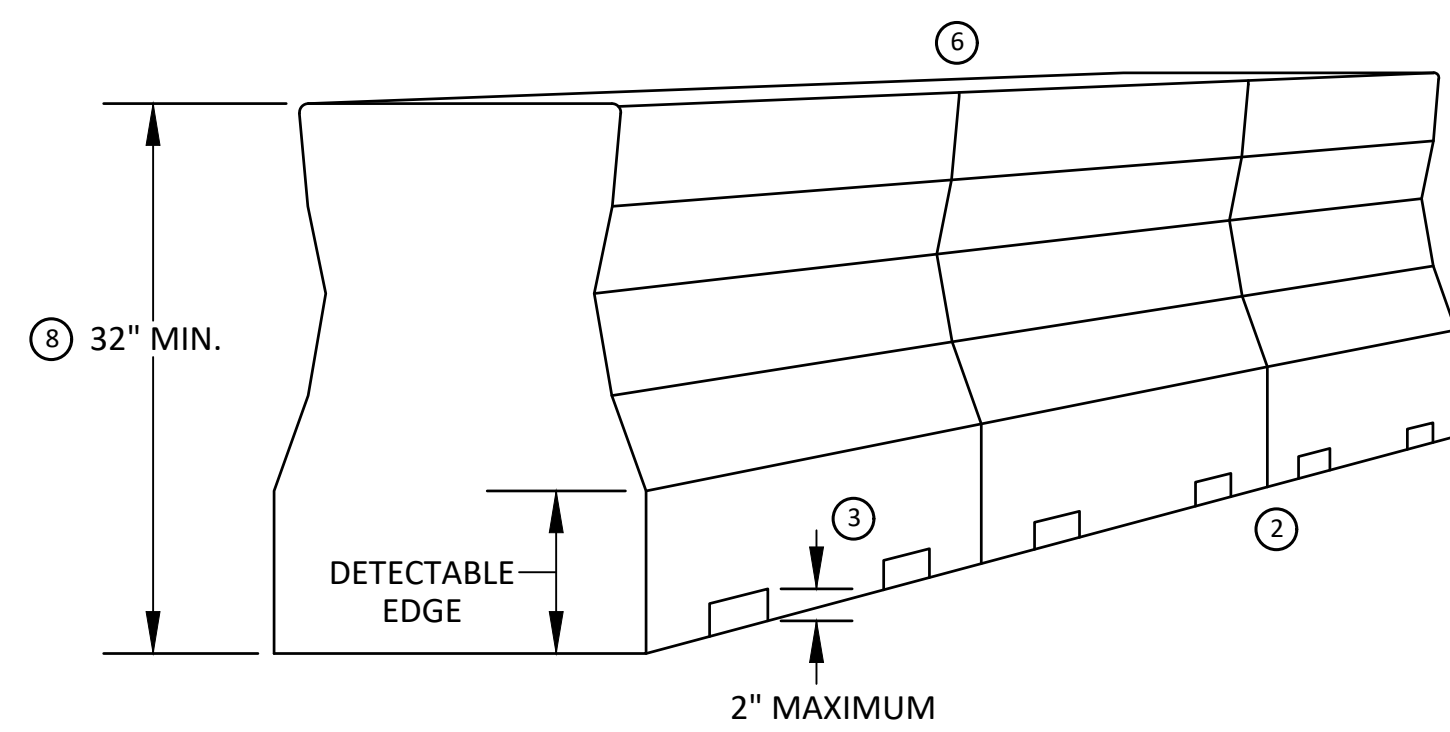
CITY OF ANN ARBOR
2025 MISCELLANEOUS UTILITY PROJECTS
TPAR WALKWAY DEVICES



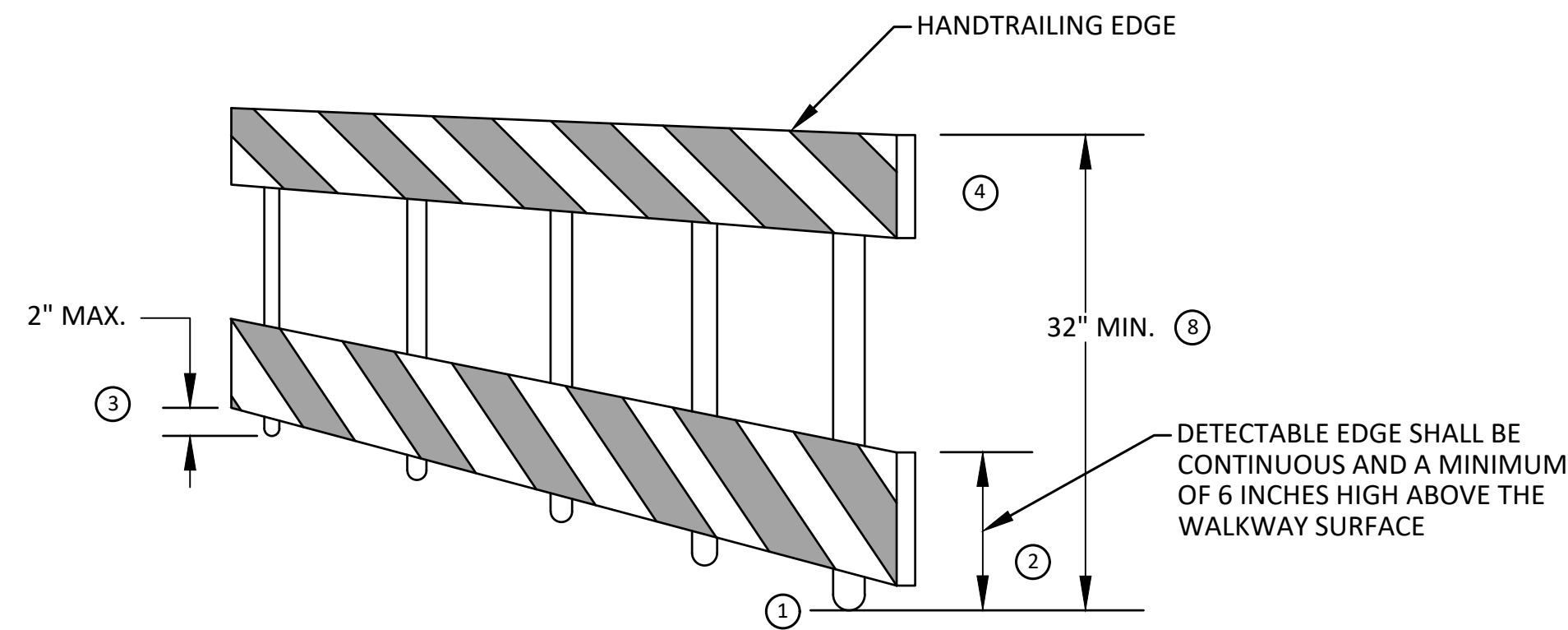
TEMPORARY PEDESTRIAN ACCESS



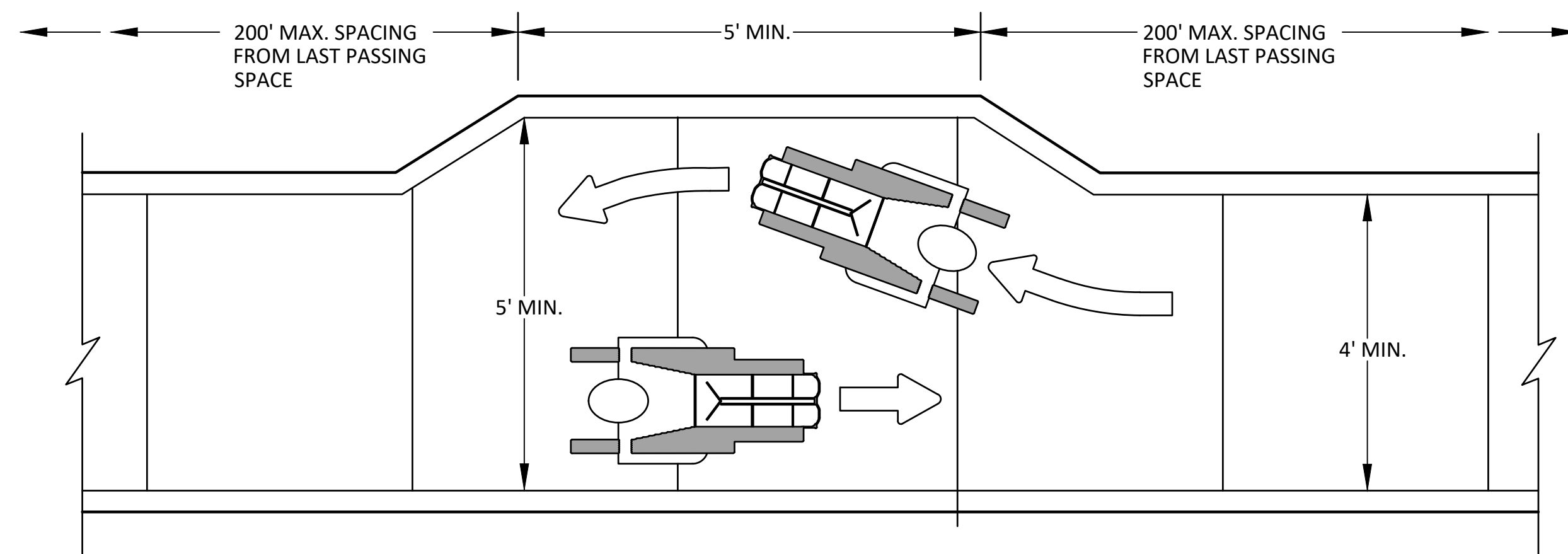
TEMPORARY WALKWAY SURFACE



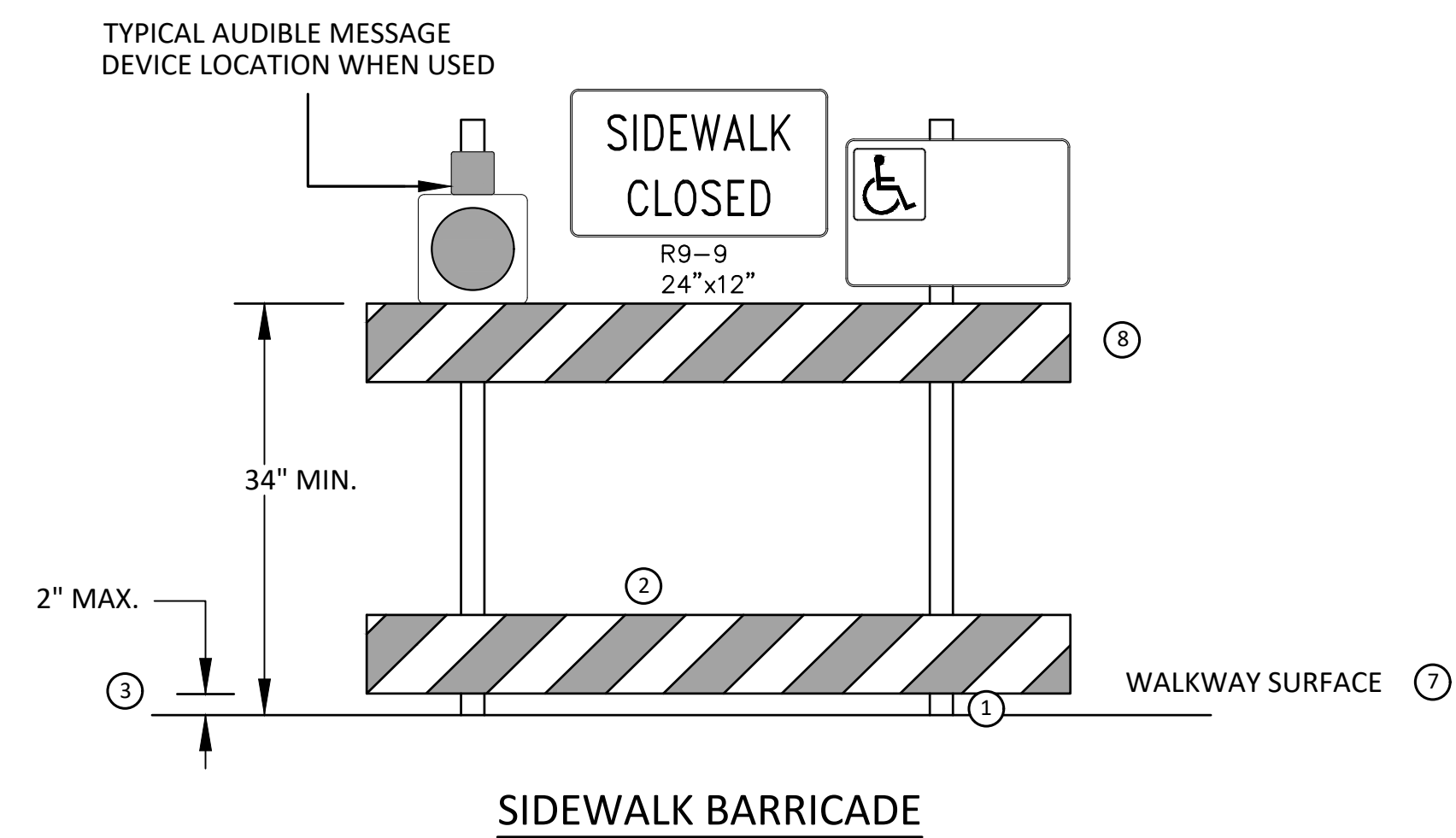
PEDESTRIAN CHANNELIZER USING A BARRIER (MINIMUM REQUIREMENTS)



PEDESTRIAN CHANNELIZER (MINIMUM REQUIREMENTS)



NARROW TEMPORARY PEDESTRIAN ACCESS ROUTE PASSING DETAIL



SIDEWALK BARRICADE

GENERAL NOTES

RAILINGS OR OTHER OBJECTS MAY PROTRUDE A MAXIMUM OF 4 INCHES INTO THE WALKWAY CLEAR SPACE WHEN LOCATED A MINIMUM OF 27 INCHES ABOVE THE WALKWAY SURFACE.

ANY PEDESTRIAN DEVICES USED TO PROVIDE POSITIVE PROTECTION FOR PEDESTRIANS OR WORKERS SHALL MEET NCHRP 350 CRASHWORTHY REQUIREMENTS APPROPRIATE FOR THE BARRIER'S APPLICATION.

BARRICADES SHALL BE PLACED CONTINUOUSLY ACROSS THE ENTIRE WIDTH OF THE WALKWAY SURFACE BEING CLOSED.

SPECIFIC NOTES

1 ANY TRIPPING HAZARD IN THE WALKWAY NEEDS A DETECTABLE EDGE. BALLAST SHALL BE LOCATED BEHIND OR INTERNAL TO THE DEVICE. ANY SUPPORT ON THE FRONT OF THE DEVICE SHALL NOT EXTEND INTO THE 48 INCH MINIMUM WALKWAY CLEAR SPACE AND SHALL NOT EXCEED 0.5 INCHES IN HEIGHT ABOVE THE WALKWAY SURFACE.

2 DETECTABLE EDGES SHALL BE CONTINUOUS AND A MINIMUM OF 6 INCHES IN HEIGHT ABOVE WALKWAY SURFACE AND HAVE COLOR MARKINGS CONTRASTING WITH THE WALKWAY SURFACE.

3 DEVICES SHALL NOT BLOCK WATER DRAINAGE FROM THE WALKWAY. A GAP HEIGHT OR OPENING FROM THE WALKWAY SURFACE UP TO A MAXIMUM OF 2 INCHES IS ALLOWED FOR DRAINAGE PURPOSES.

4 PROVIDE A HANDRAIL ON BOTH SIDES OF THE RAMP IF THE RAMP IS NOT EXPOSED TO VEHICLE TRAFFIC AND HAS A TOTAL RISE GREATER THAN 6 INCHES, AND A LENGTH GREATER THAN 72 INCHES.

- ENSURE THE HANDRAIL IS 1.25 AND 1.5 INCHES WIDE AND CONFIGURED TO BE A "GRASPABLE" CROSS-SECTION.

SEE CONSTRUCTION SUBSECTION 2.A FOR ADDITIONAL DETAILS.

WHEN THE RAMP IS EXPOSED TO TRAFFIC, IN LIEU OF HANDRAILS, USE A PROTECTIVE EDGE 2.5 INCHES MINIMUM HEIGHT ABOVE THE RAMP SURFACE OR 1:10 FLARE ON BOTH SIDES OF THE RAMP.

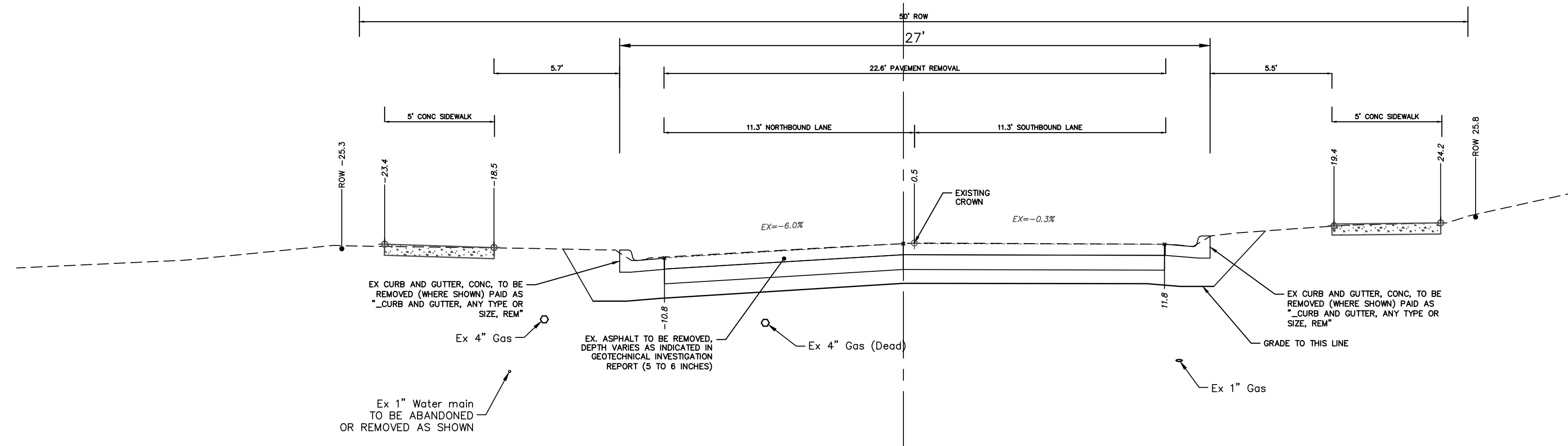
5 ALL DEVICES SHALL BE FREE OF SHARP OR ROUGH EDGES, AND FASTENERS (BOLTS) SHALL BE ROUNDED TO PREVENT HARM TO HANDS, ARMS OR CLOTHING OF PEDESTRIANS.

6 ALL DEVICES USED TO CHANNELIZE PEDESTRIAN FLOW SHOULD INTERLOCK SUCH THAT GAPS DO NOT ALLOW PEDESTRIANS TO STRAY FROM THE INTENDED CHANNELIZED PATH.

7 A WALKWAY SURFACE SHALL BE FIRM, STABLE, AND SLIP RESISTANT. COMPACTED GRAVEL, AGGREGATE, OR SLAG MATERIALS ARE NOT ALLOWED.

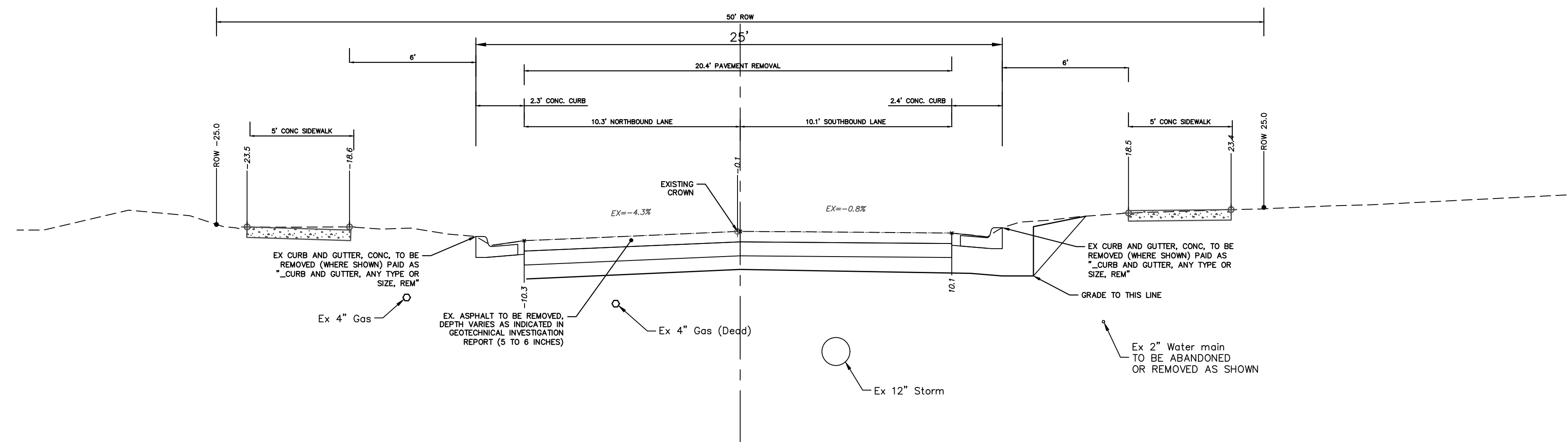
8 LONGITUDINAL CHANNELIZING DEVICES FOR PEDESTRIANS SHALL BE 32 INCHES IN HEIGHT OR GREATER.

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**HARDING ROAD
TYPICAL SECTION - EXISTING**

STA. 10+70 TO P.O.E.
N.T.S.



**HARDING ROAD
TYPICAL SECTION - EXISTING**

STA. 7+30 TO STA. 10+70
N.T.S.



Know what's below.
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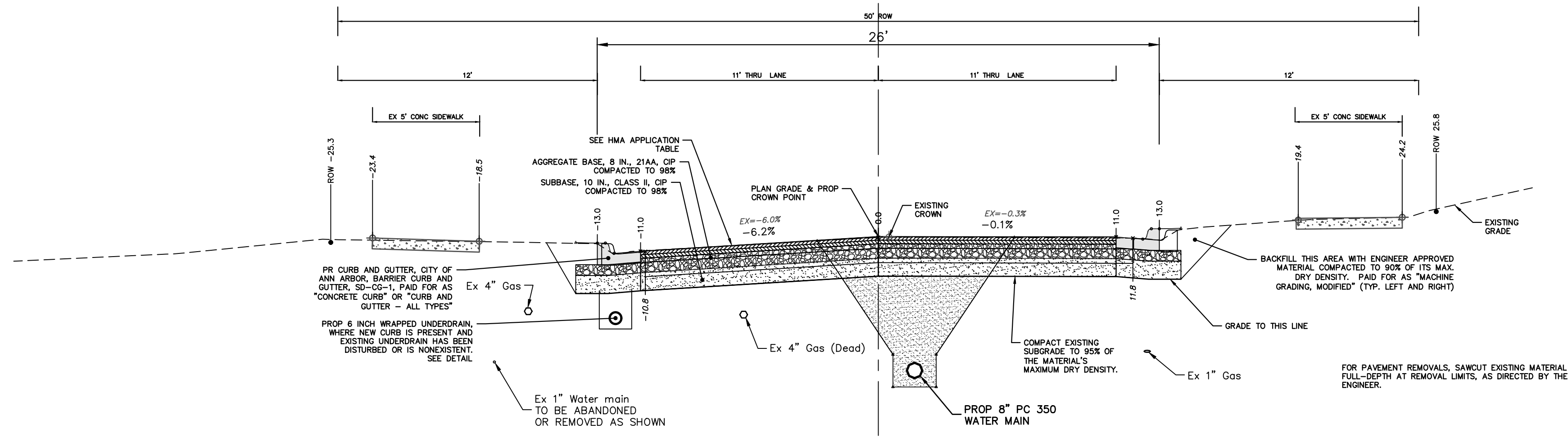
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TYPICAL CROSS-SECTIONS
HARDING EXISTING TYPICAL SECTIONS

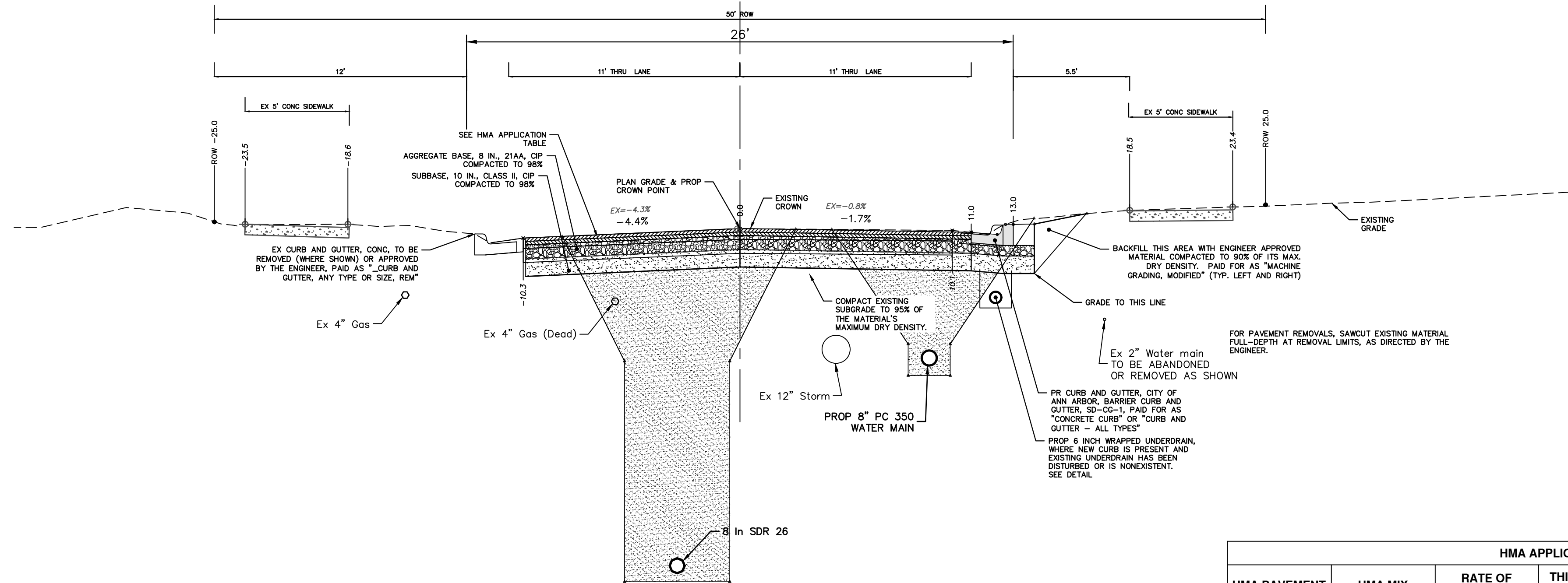
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PROFILE: 1" = 4'
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**HARDING ROAD
TYPICAL SECTION - PROPOSED**

STA. 10+50 TO P.O.E.
N.T.S.



**HARDING ROAD
TYPICAL SECTION - PROPOSED**

STA. 7+30 TO STA. 10+50
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



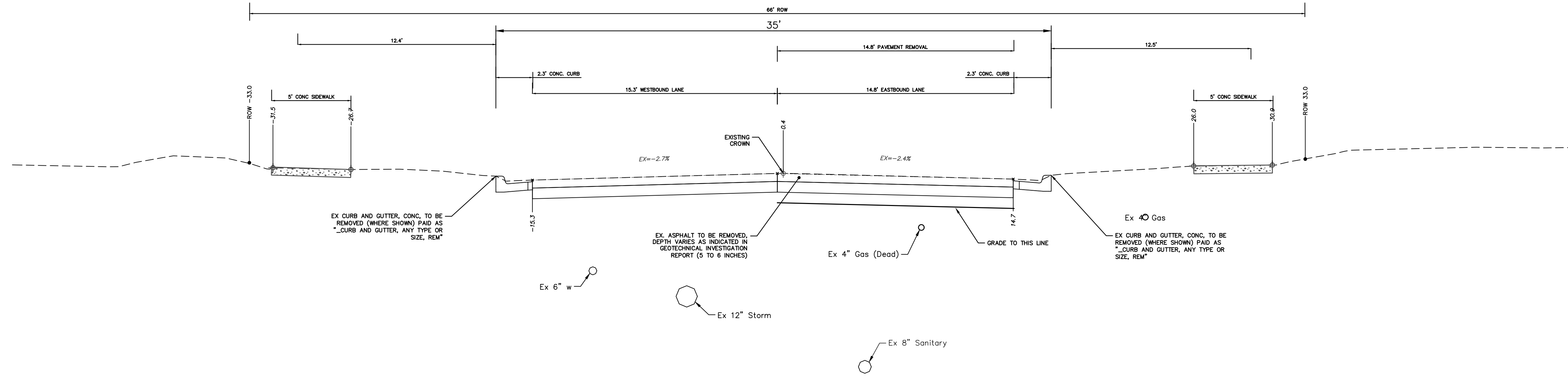
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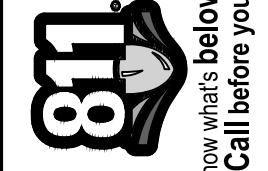


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2025 MISCELLANEOUS UTILITY PROJECTS
TYPICAL CROSS-SECTIONS
HARDING PROPOSED TYPICAL SECTIONS

SCALE PLAN: 1" = 4'
PROFILE: 1" = 4'
DRAWING No. 2024006-9



**MORTON AVENUE
TYPICAL SECTION - EXISTING**



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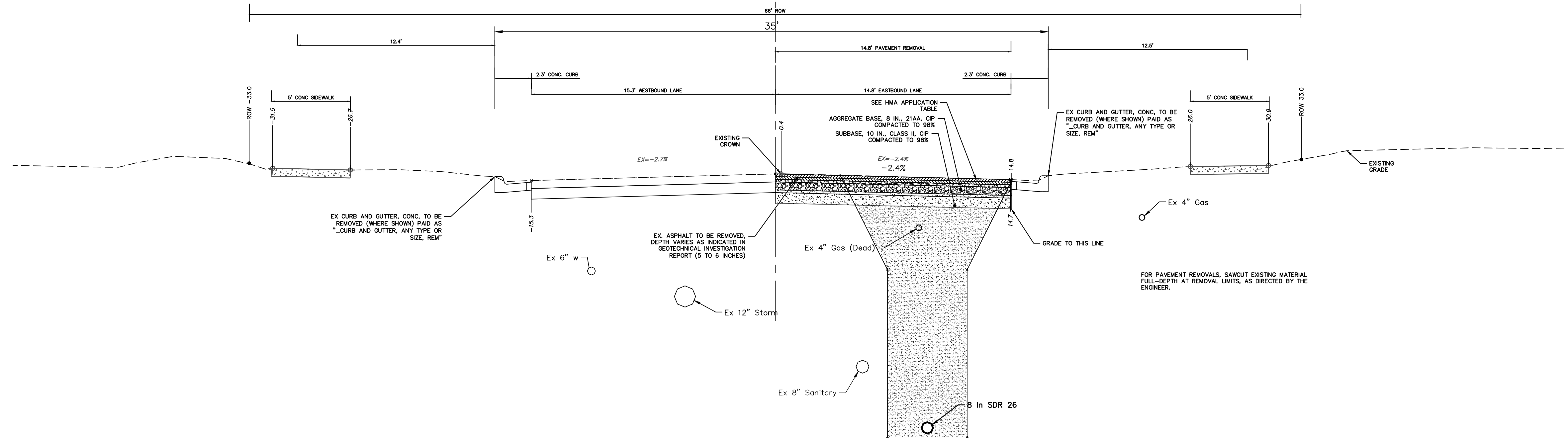


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2025 MISCELLANEOUS UTILITY PROJECTS
TYPICAL CROSS-SECTIONS
MORTON EXISTING TYPICAL SECTIONS

SCALE PLAN: CUSTOM
PROFILE: 1" = 4'
DRAWING No. 2024006-10

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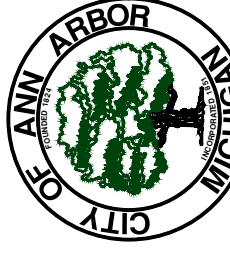
**MORTON AVENUE
TYPICAL SECTION - PROPOSED**

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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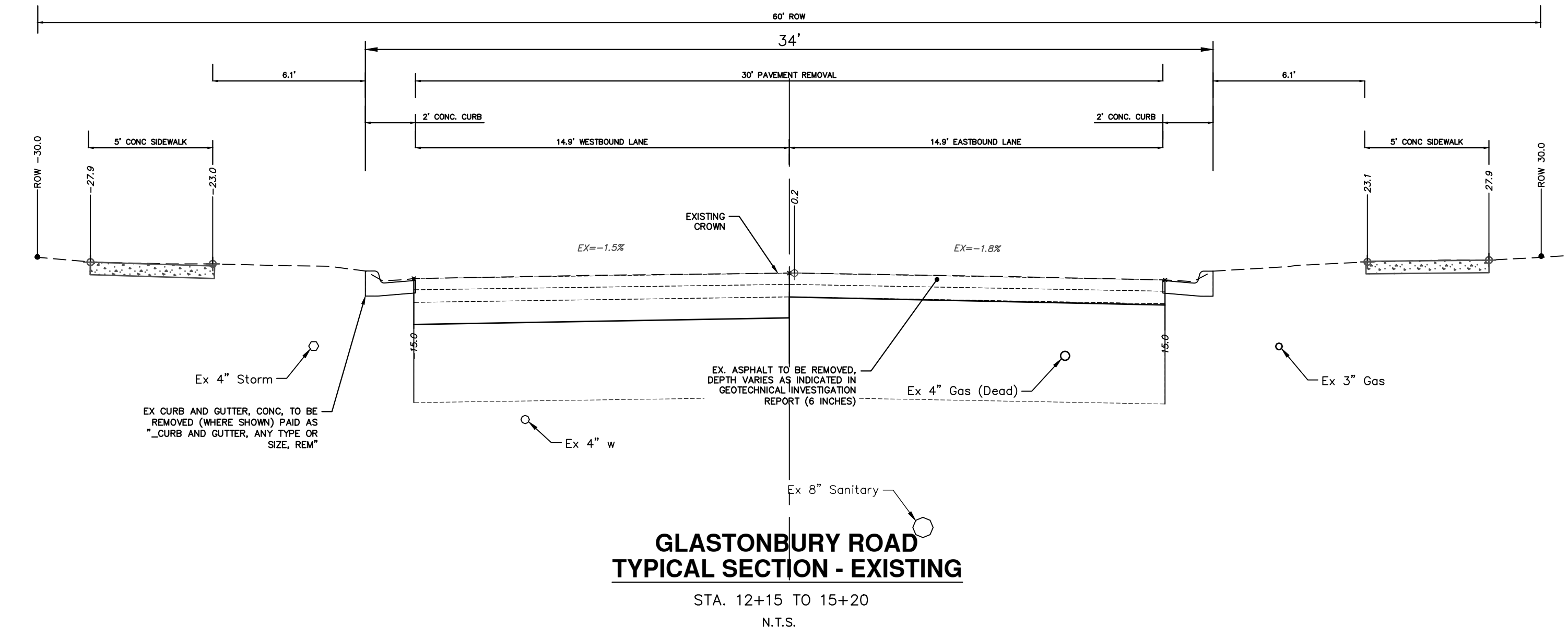
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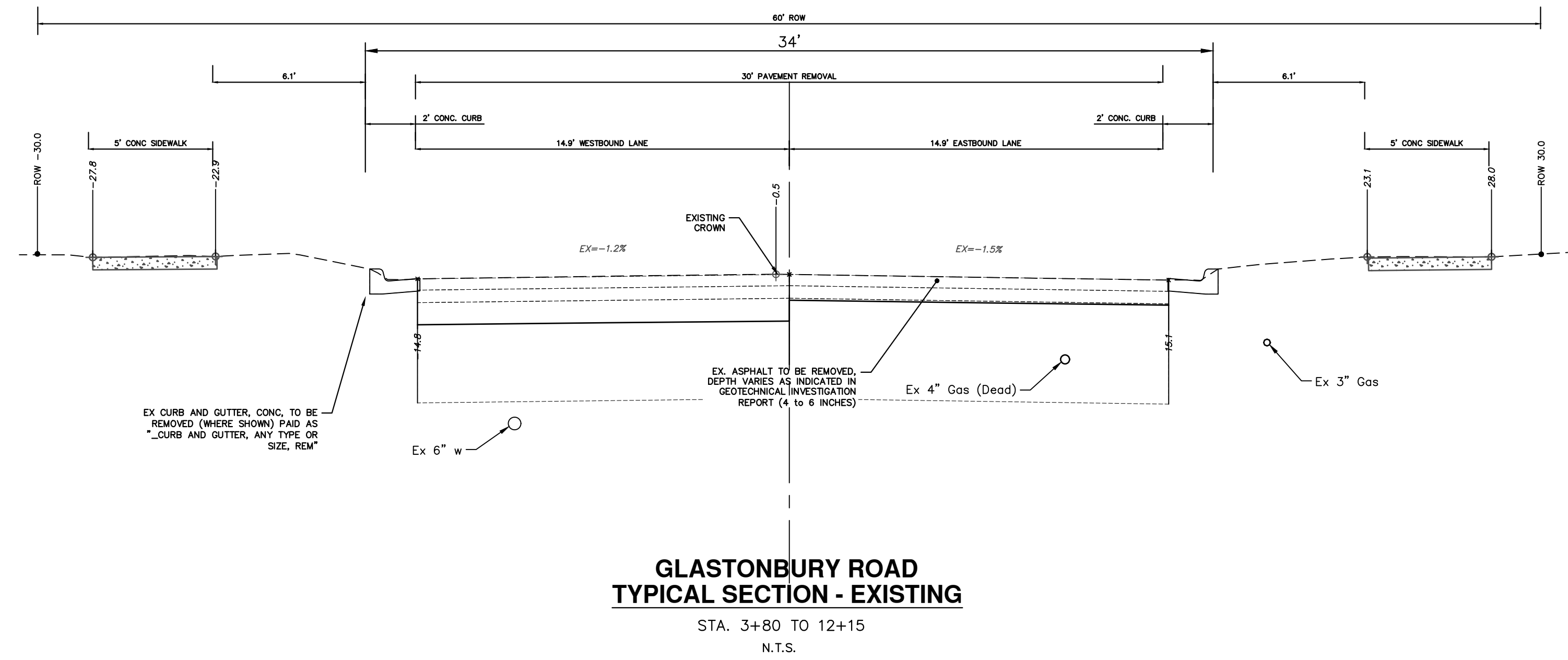
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TYPICAL CROSS-SECTIONS
MORTON PROPOSED TYPICAL SECTION

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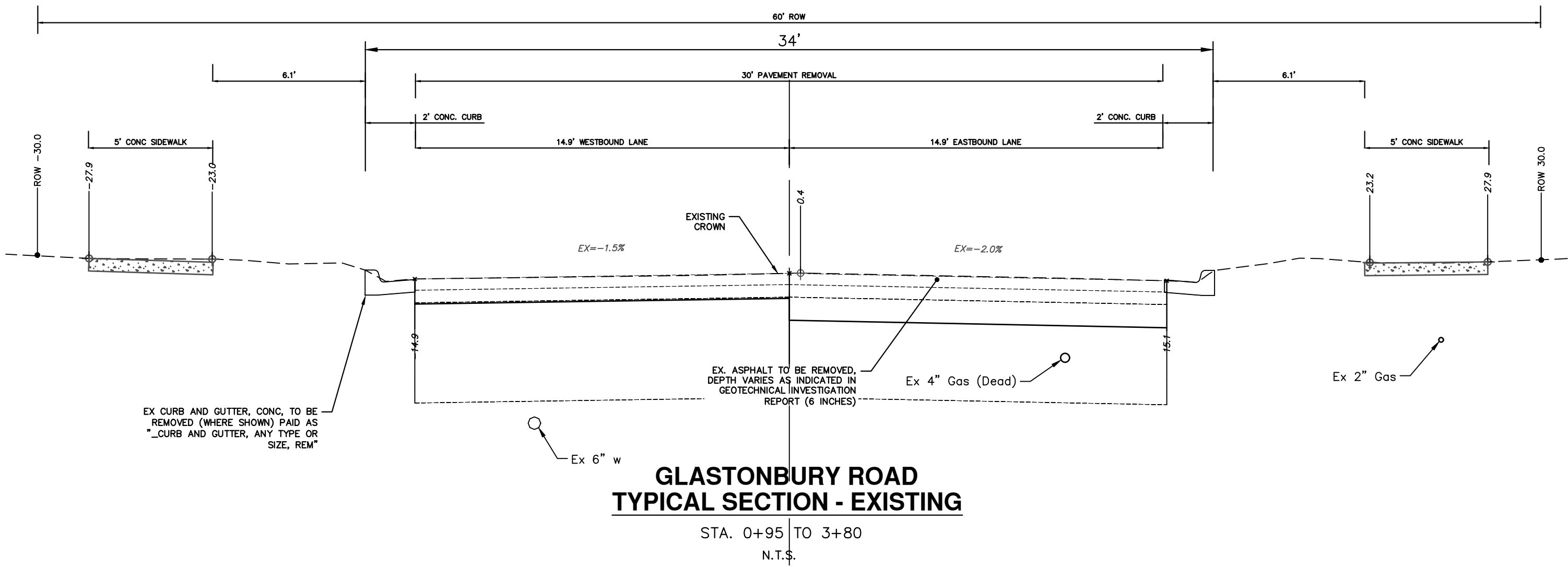
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**GLASTONBURY ROAD
TYPICAL SECTION - EXISTING**
STA. 12+15 TO 15+20
N.T.S.



**GLASTONBURY ROAD
TYPICAL SECTION - EXISTING**
STA. 3+80 TO 12+15
N.T.S.



**GLASTONBURY ROAD
TYPICAL SECTION - EXISTING**
STA. 0+95 TO 3+80
N.T.S.



REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	BID SET	12/12/24	AZD	TA

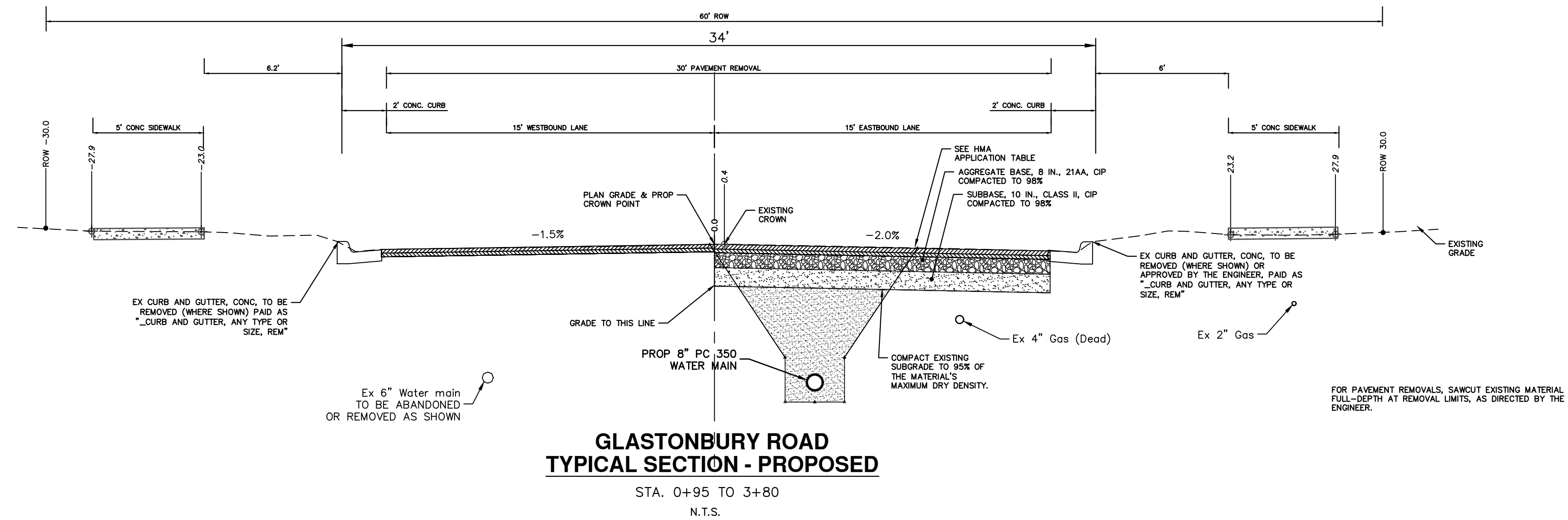
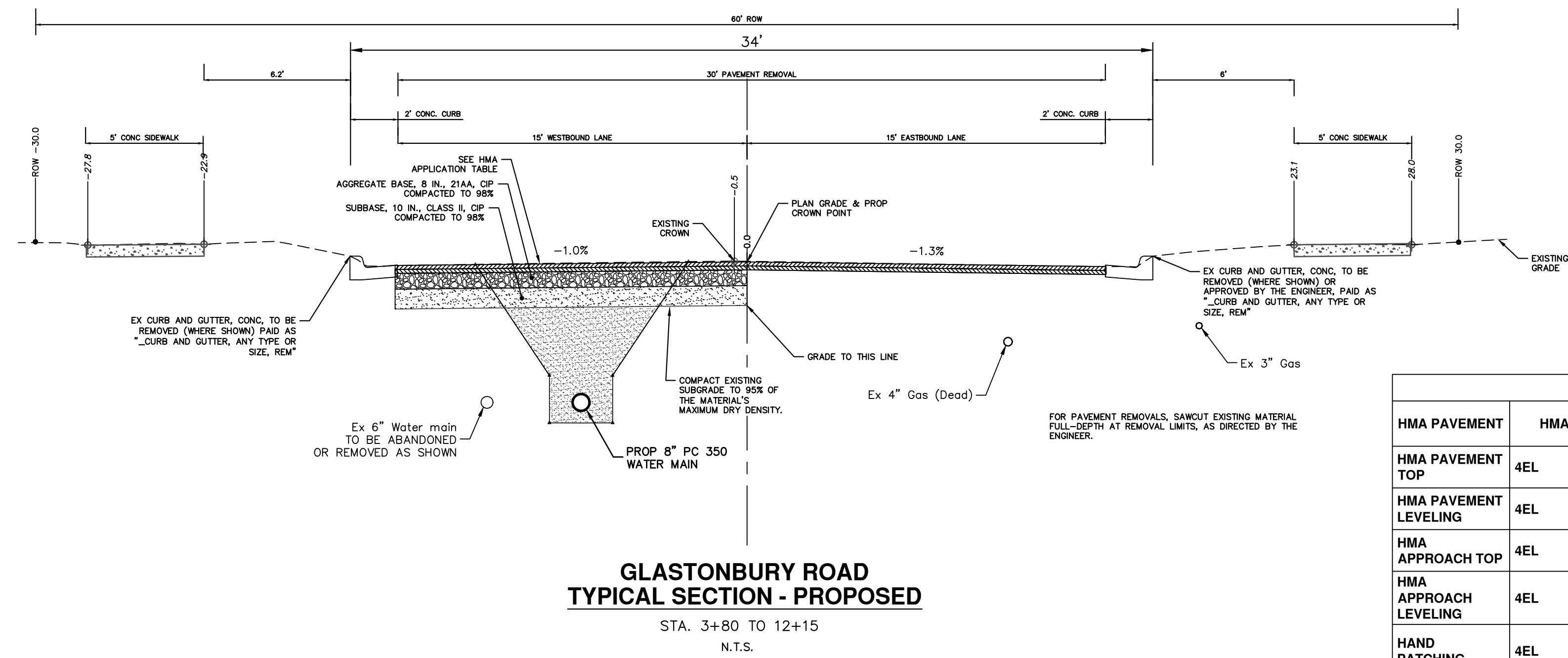
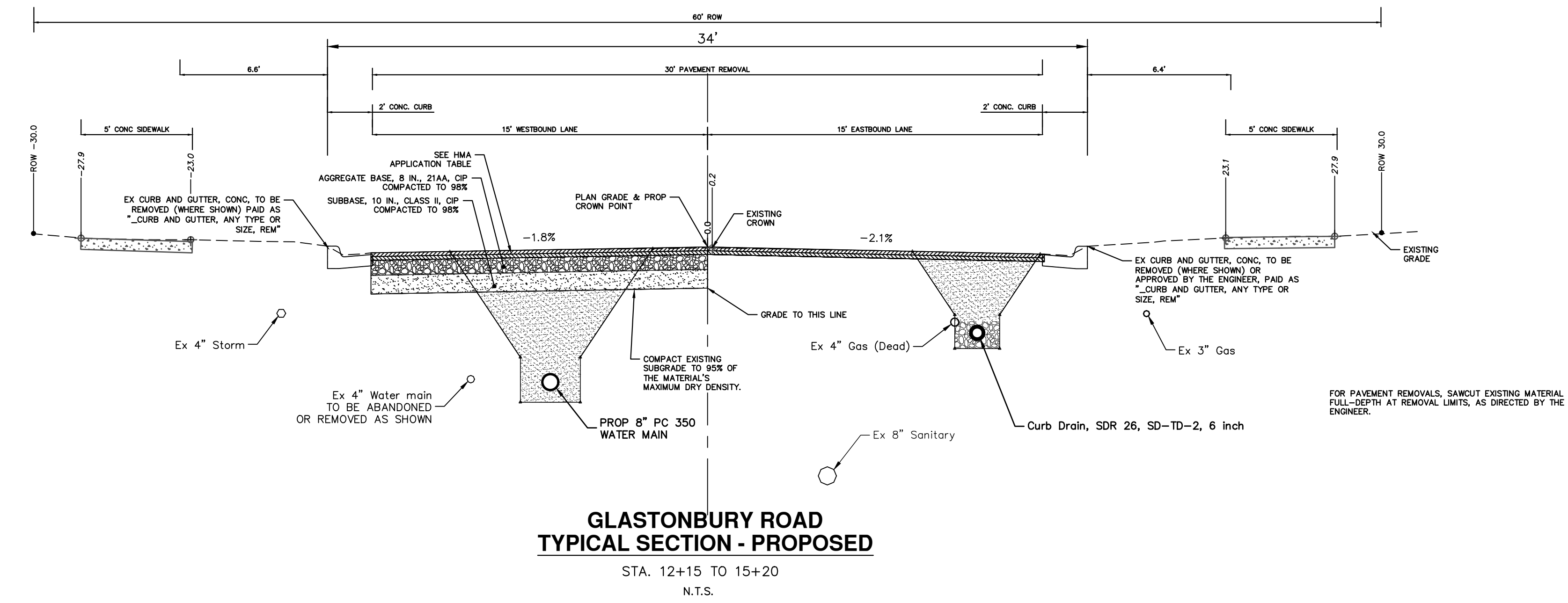
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2025 MISCELLANEOUS UTILITY PROJECTS
TYPICAL CROSS-SECTIONS
GLASTONBURY EXISTING TYPICAL SECTIONS

SCALE PLAN: 1" = 4'
PROFILE: 1" = 4'
DRAWING No. 2024006-12

R:\2024006 Misc Util 2025\Plan Production\2024006\Txsctn GiasWald.dwg Dwg Created: 12-Dec-24 - _a2 standard bw.stb - Plot Date: 12-Dec-24



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



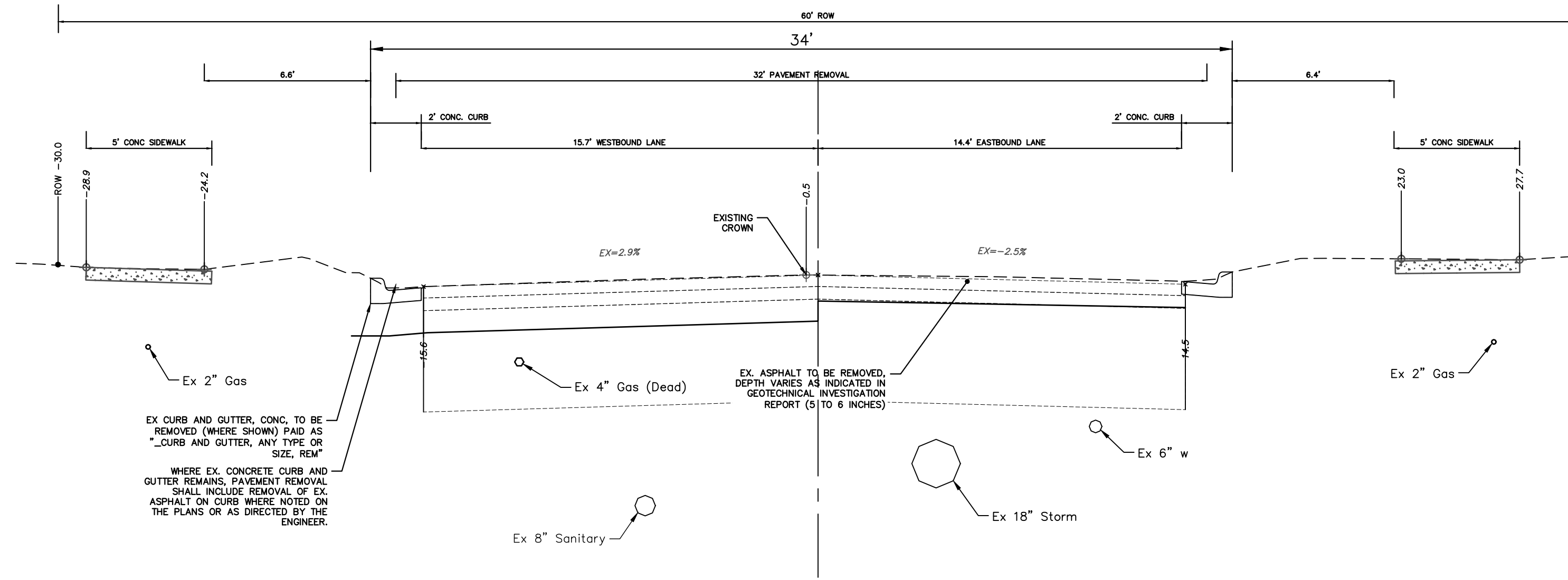
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01	BID SET	12/12/24	AZD	TA

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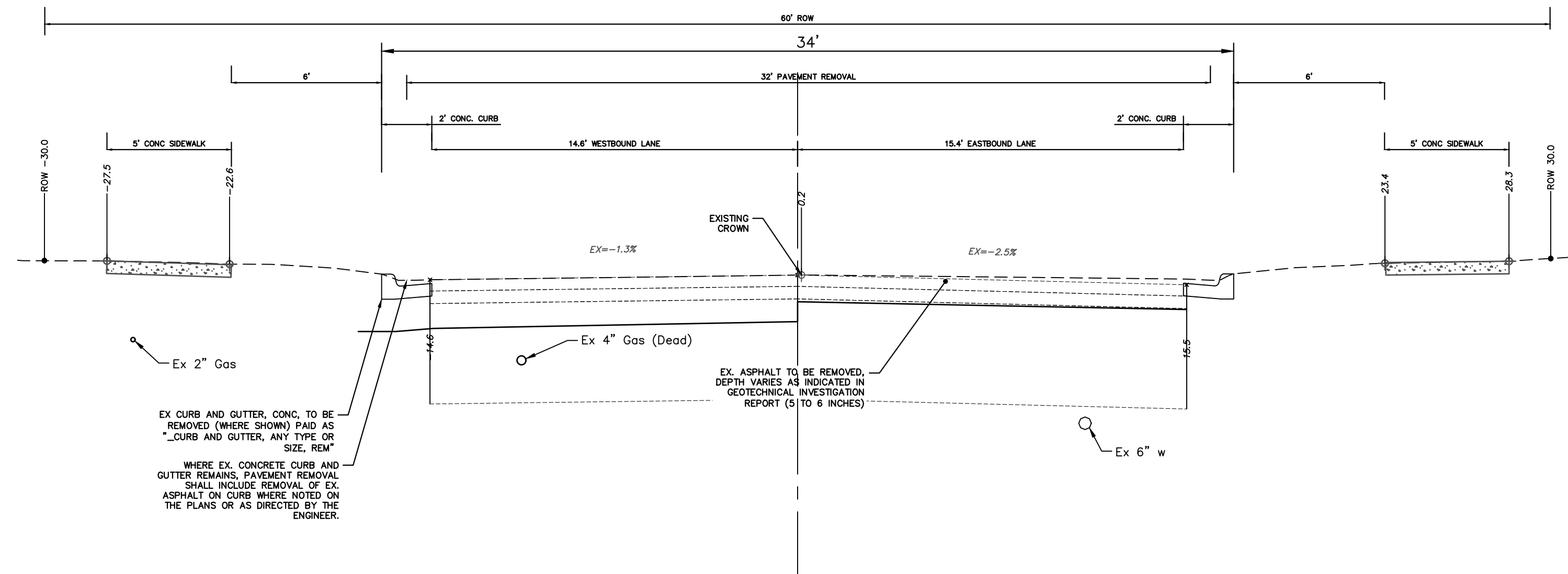
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2025 MISCELLANEOUS UTILITY PROJECTS
TYPICAL CROSS-SECTIONS
GLASTONBURY PROPOSED TYPICAL SECTIONS

SCALE PLAN: 1" = 4'
PROFILE: 1" = 4'
DRAWING No. 2024006-13



**WELDON BOULEVARD
TYPICAL SECTION - EXISTING**

STA. 5+00 TO P.O.E.
N.T.S.



**WELDON BOULEVARD
TYPICAL SECTION - EXISTING**

STA. 0+55 TO STA. 5+00
N.T.S.



REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	BID SET	12/12/24	AZD	TA

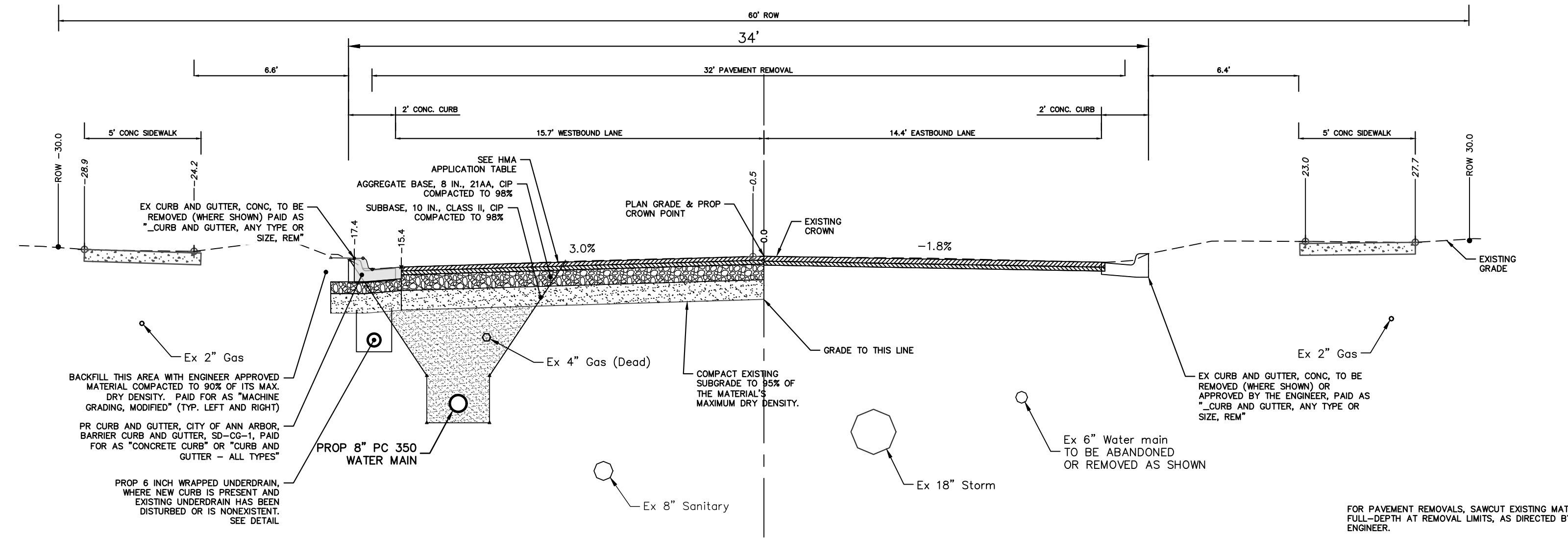
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2025 MISCELLANEOUS UTILITY PROJECTS
TYPICAL CROSS-SECTIONS
WELDON EXISTING TYPICAL SECTIONS

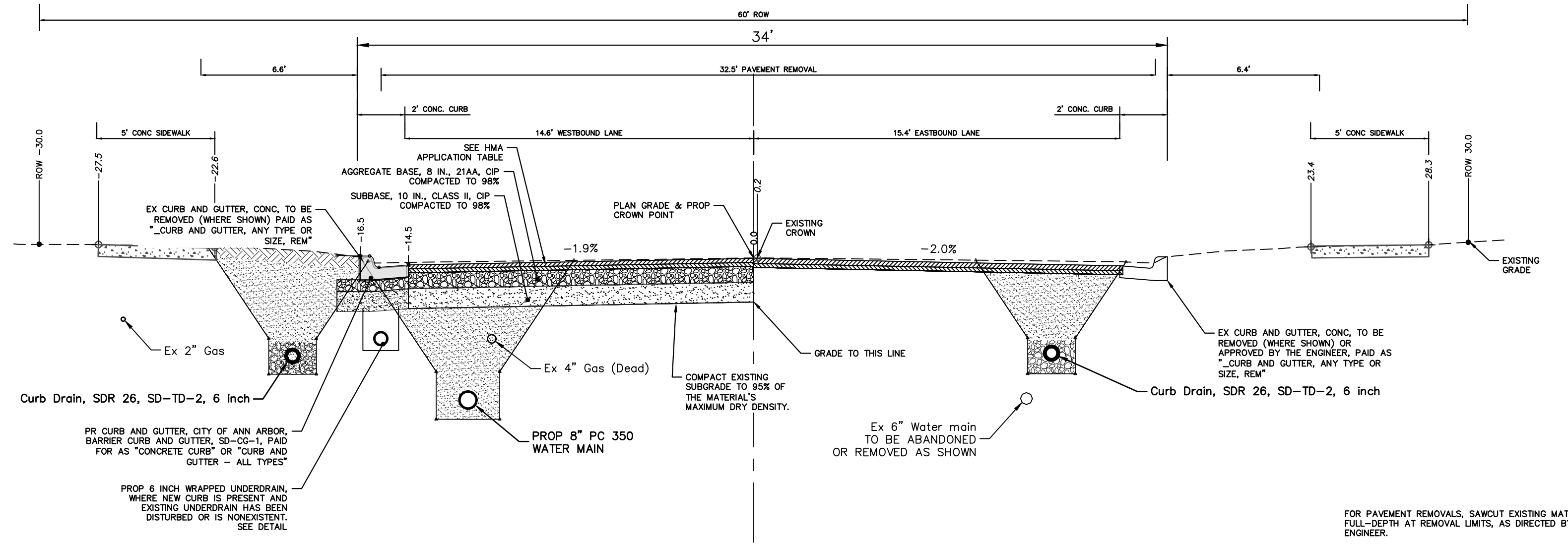
SCALE PLAN: 1" = 4'
PROFILE: 1" = 4'
DRAWING No. 2024006-14

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**WELDON BOULEVARD
TYPICAL SECTION - PROPOSED**

STA. 5+00 TO P.O.E.
N.T.S.



**WELDON BOULEVARD
TYPICAL SECTION - PROPOSED**

STA. 0+55 TO STA. 5+00
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



REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	BID SET	12/12/24	AZD	TA

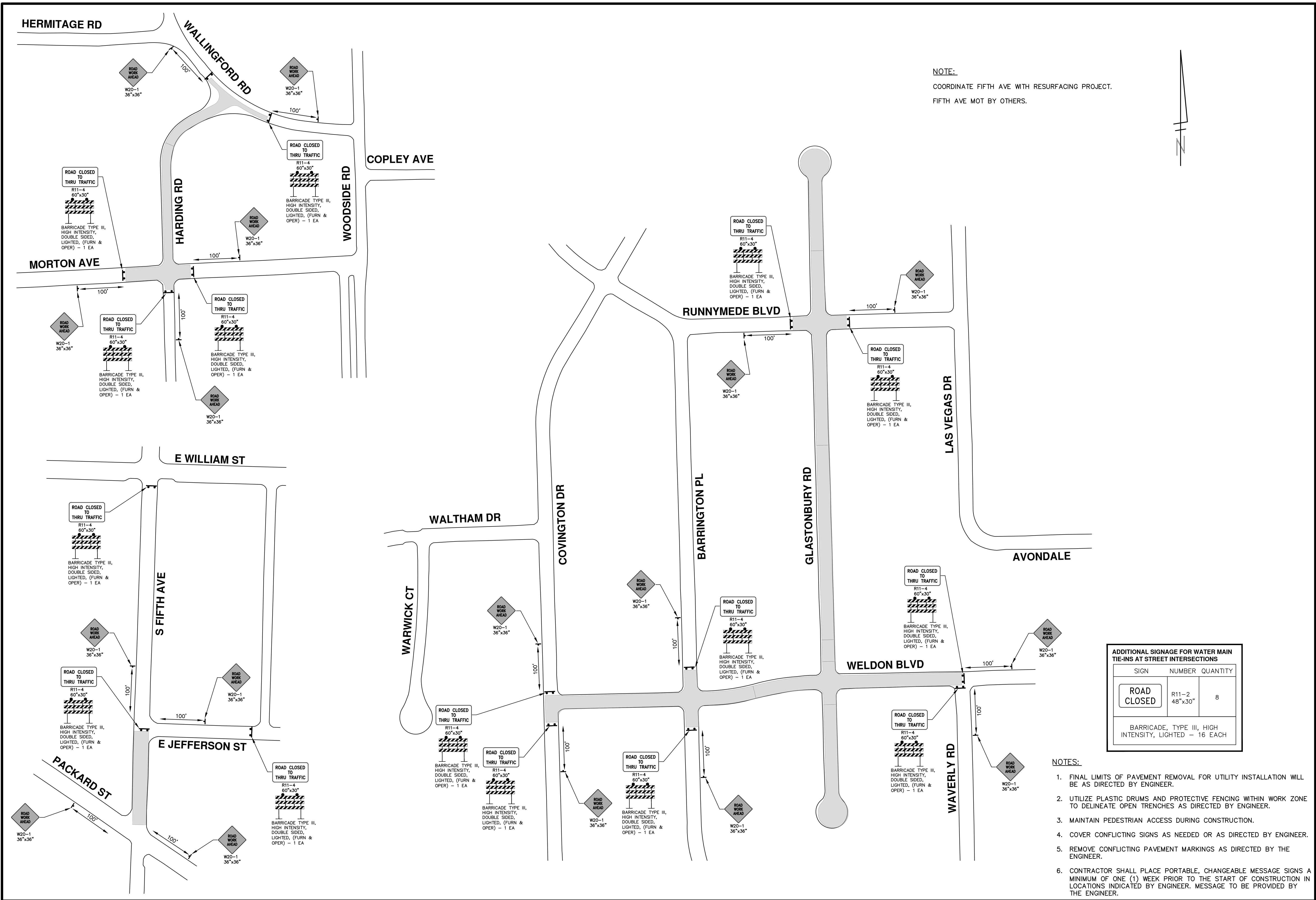
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2025 MISCELLANEOUS UTILITY PROJECTS
TYPICAL CROSS-SECTIONS
WELDON PROPOSED TYPICAL SECTIONS

SCALE PLAN: 1" = 4'
PROFILE: 1" = 4'
DRAWING No. 2024006-15

R:\2024006 Misc Util 2025\Plan Production\2024006Mtrf.dwg Dwg Created: 27-Aug-24 - _a2_standard bw.sfb - Plot Date: 12-Dec-24



NOTE:
 COORDINATE FIFTH AVE WITH RESURFACING PROJECT.
 FIFTH AVE MOT BY OTHERS.

ADDITIONAL SIGNAGE FOR WATER MAIN TIE-INS AT STREET INTERSECTIONS

SIGN	NUMBER	QUANTITY
ROAD CLOSED	R11-2 48"x30"	8
BARRICADE, TYPE III, HIGH INTENSITY, LIGHTED - 16 EACH		

- NOTES:
- FINAL LIMITS OF PAVEMENT REMOVAL FOR UTILITY INSTALLATION WILL BE AS DIRECTED BY ENGINEER.
 - UTILIZE PLASTIC DRUMS AND PROTECTIVE FENCING WITHIN WORK ZONE TO DELINEATE OPEN TRENCHES AS DIRECTED BY ENGINEER.
 - MAINTAIN PEDESTRIAN ACCESS DURING CONSTRUCTION.
 - COVER CONFLICTING SIGNS AS NEEDED OR AS DIRECTED BY ENGINEER.
 - REMOVE CONFLICTING PAVEMENT MARKINGS AS DIRECTED BY THE ENGINEER.
 - CONTRACTOR SHALL PLACE PORTABLE, CHANGEABLE MESSAGE SIGNS A MINIMUM OF ONE (1) WEEK PRIOR TO THE START OF CONSTRUCTION IN LOCATIONS INDICATED BY ENGINEER. MESSAGE TO BE PROVIDED BY THE ENGINEER.

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2025 MISCELLANEOUS UTILITY PROJECTS

TRAFFIC CONTROL

HARDING RD, GLASTONBURY RD - WELDON BLVD, S FIFTH AVE

SCALE PLAN: 1" = 100'

DRAWING NO: 2024006-16

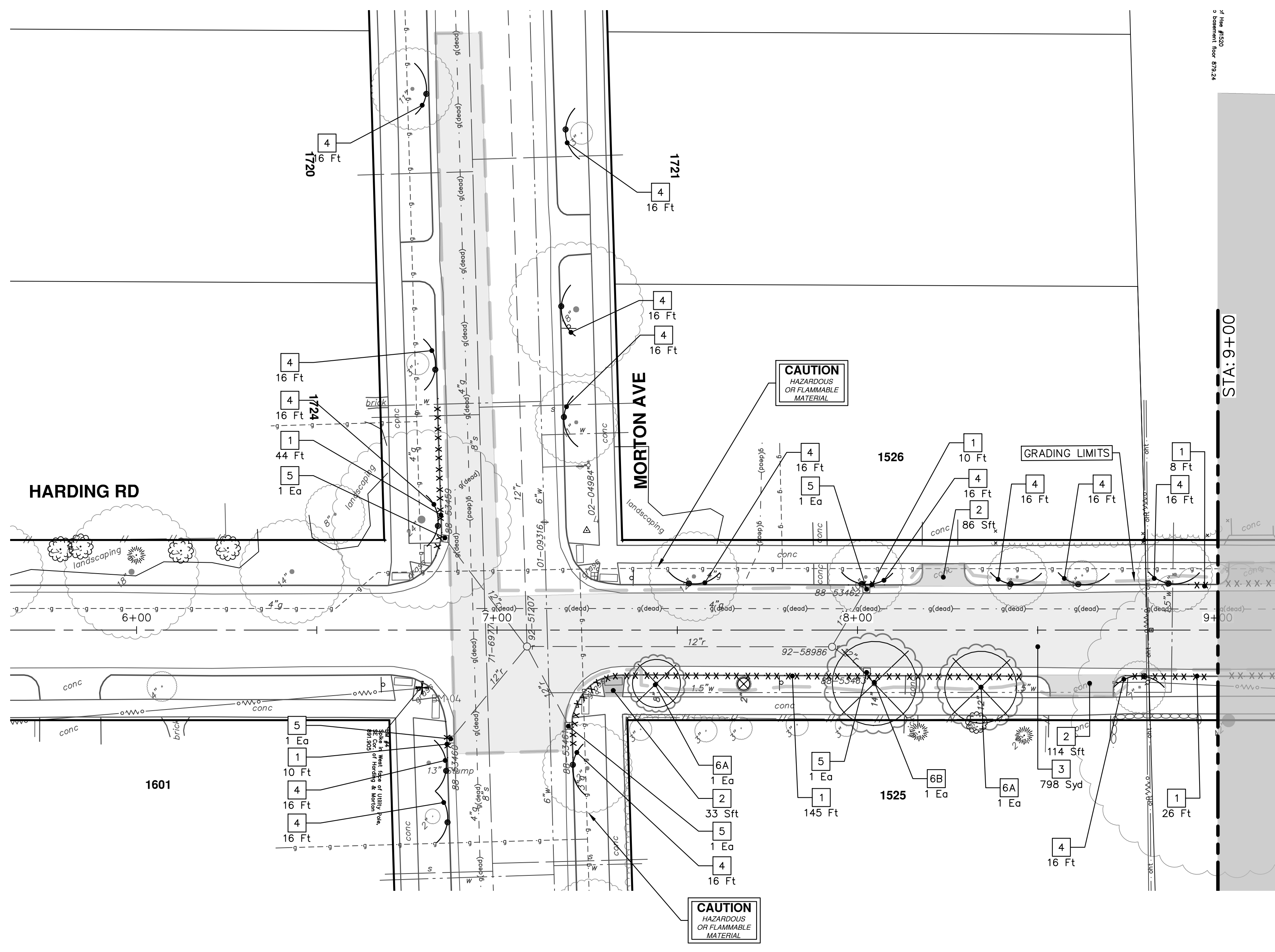
SHEET NO. 16 OF 52

811
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01	BID SET	12/12/24	AZD	TA

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CITY OF ANN ARBOR MICHIGAN



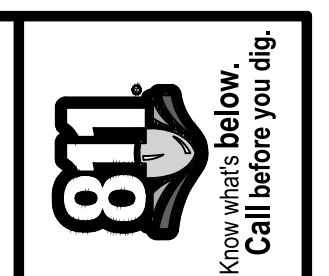
REMOVAL KEY	
KEY	DESCRIPTION
1	Curb, Gutter, and Curb and Gutter, Any Type, Rem *
2	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem
3	HMA, Any Thickness, Rem *
4	Tree Protective Fence
5	Erosion Control, Inlet Protection, Fabric Drop
6A	Tree, Rem, 6 In. - 12 In.
6B	Tree, Rem, 13 In.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

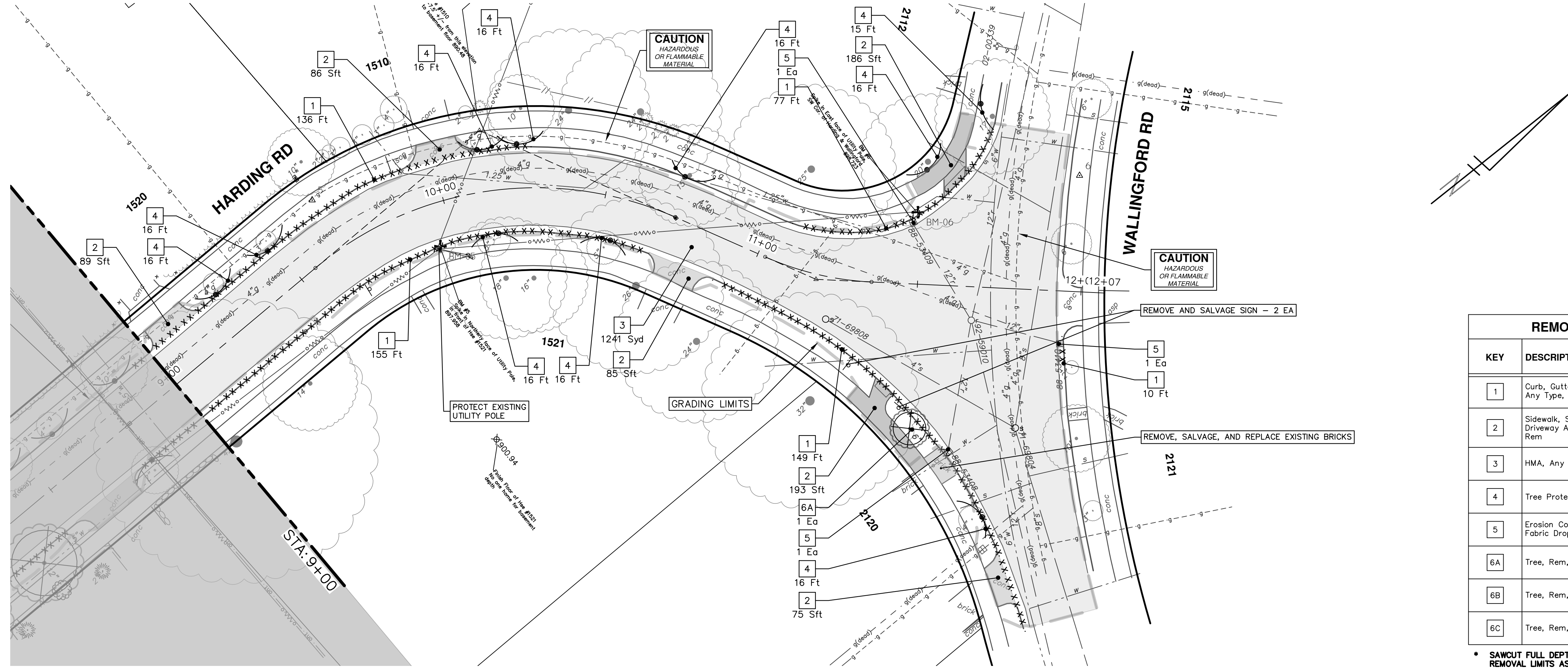
* SAWCUT FULL DEPTH AT REMOVAL LIMITS AS DIRECTED BY ENGINEER



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01	BID SET	12/12/24	AZD	TA





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.

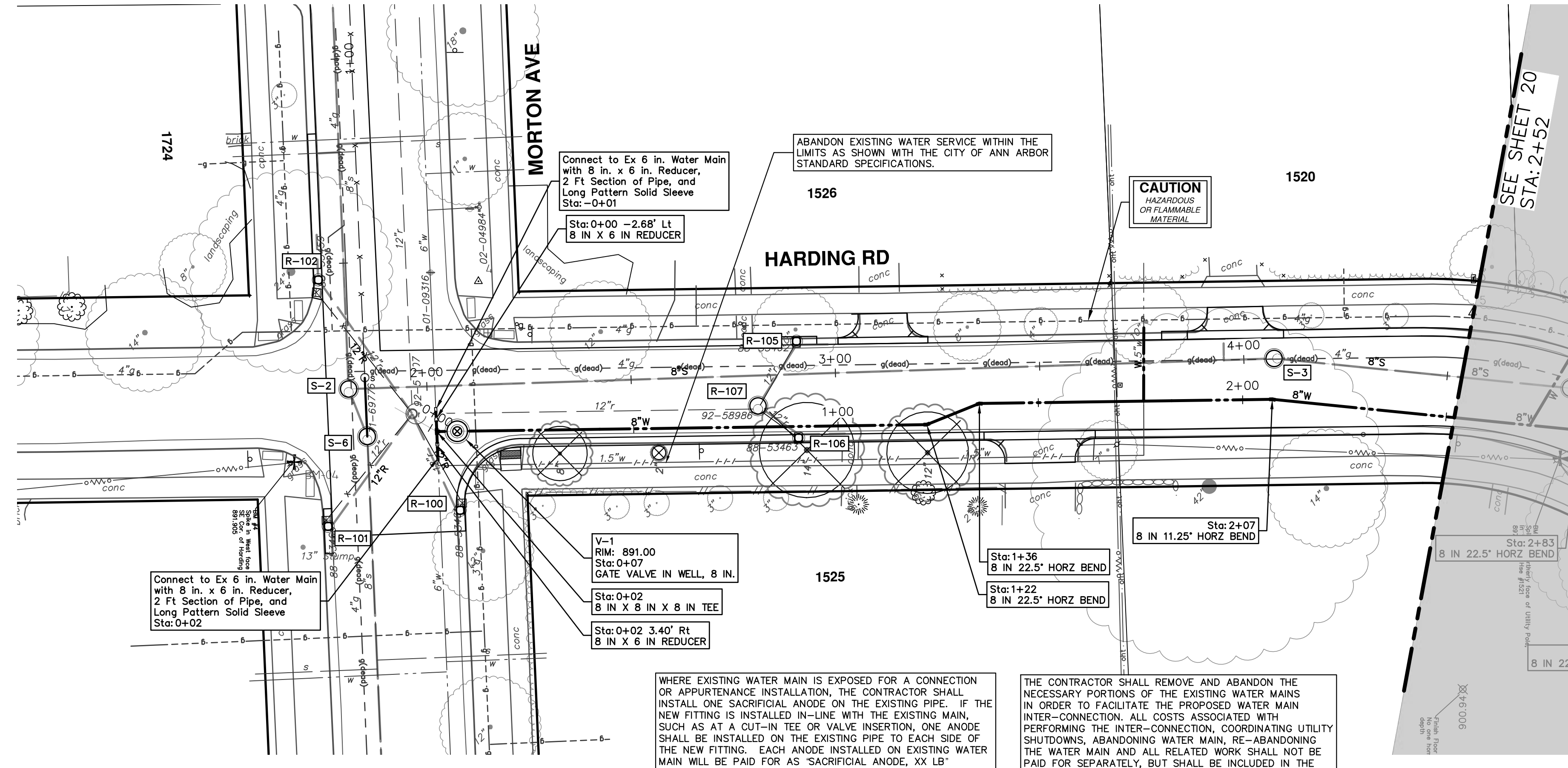
* SAWCUT FULL DEPTH AT REMOVAL LIMITS AS DIRECTED BY ENGINEER



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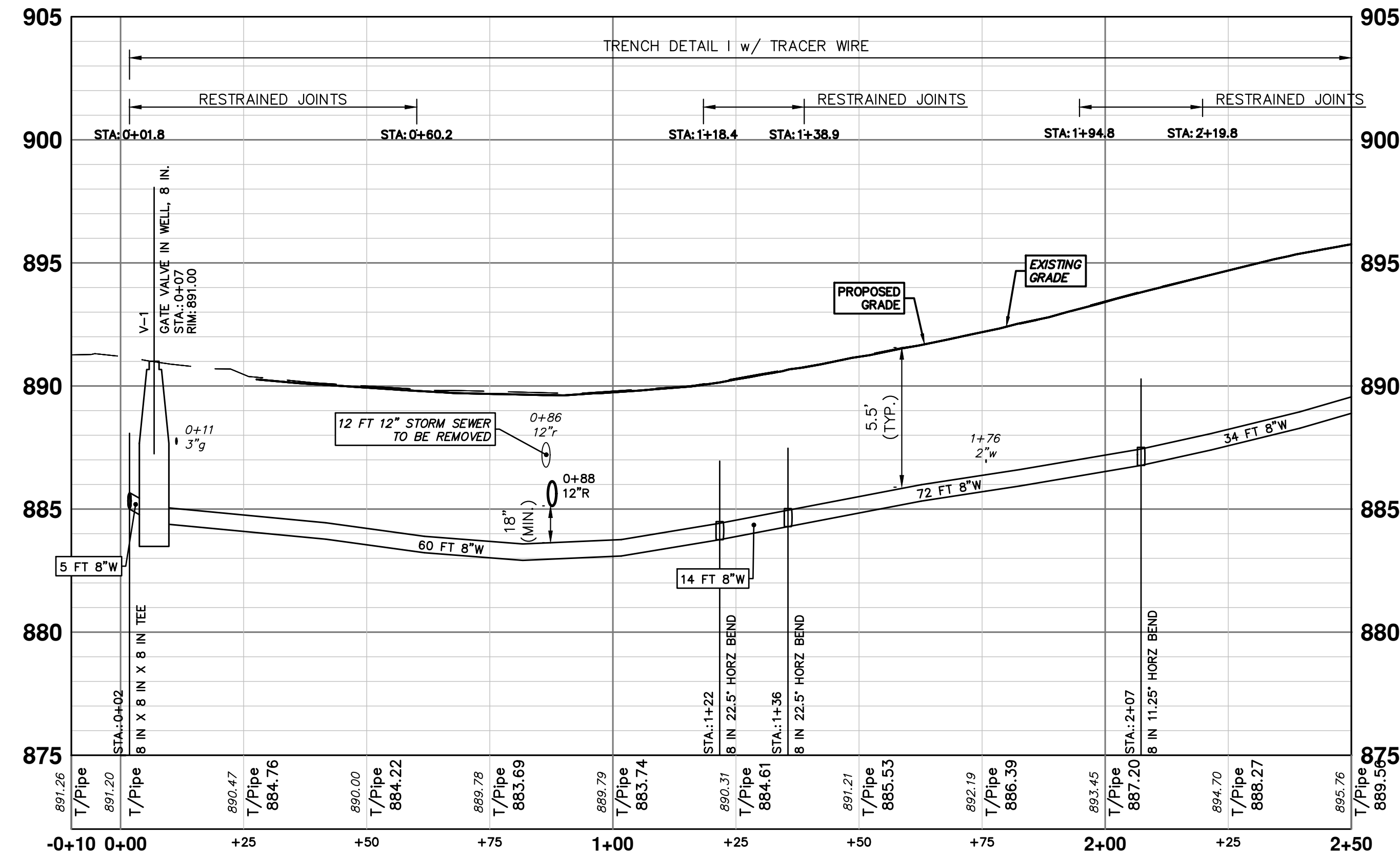
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WATER MAIN STRUCTURES			
STRUCTURE	TYPE	STATION	RIM
V-1	Gate Valve in Well, 8 In.	0+07	891.00

PR WATER - HARDING



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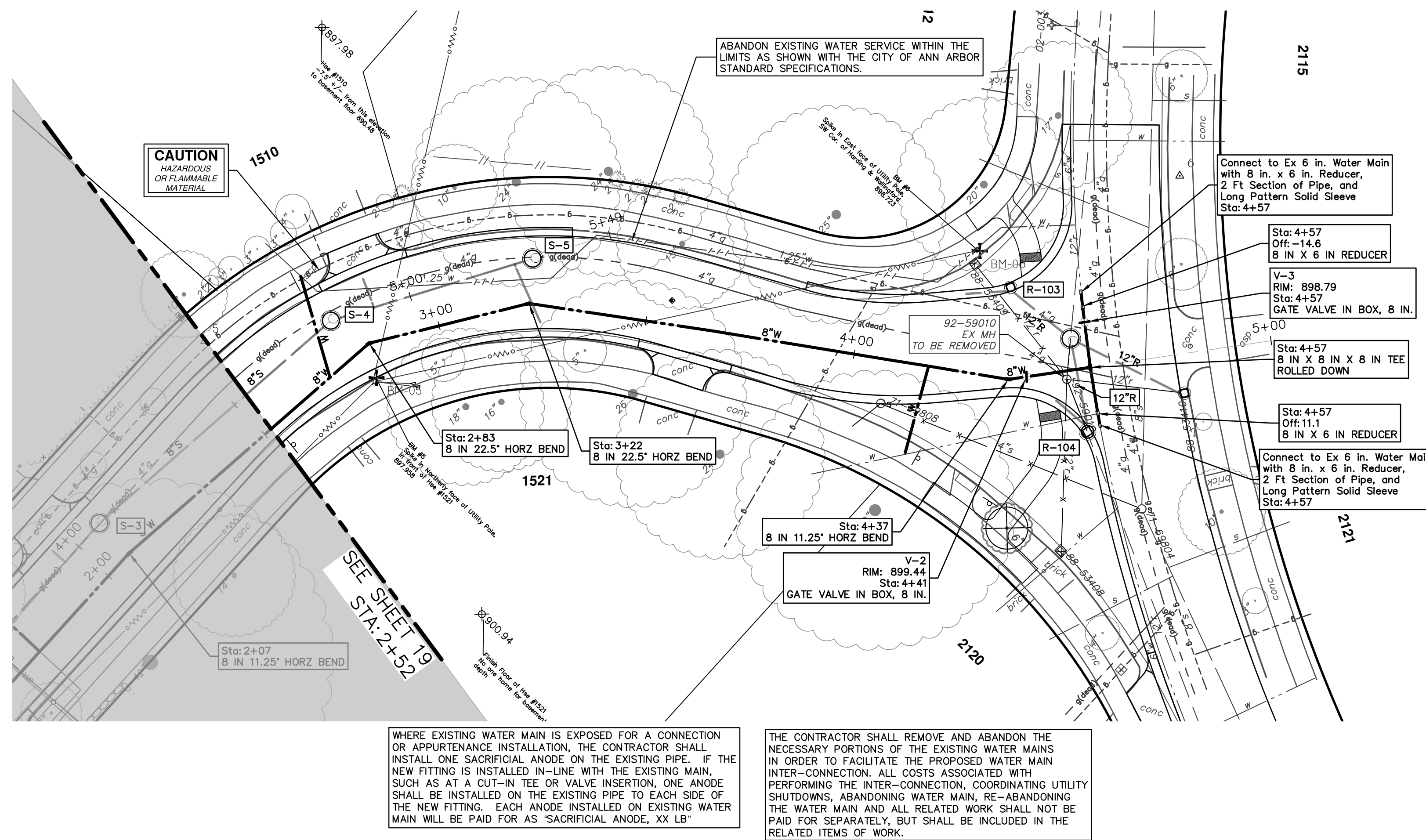


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2025 MISCELLANEOUS UTILITY PROJECTS
WATER MAIN - HARDING RD
STA. 0+00 - STA. 2+50

SCALE PLAN: 1" = 20'
PROFILE: 1" = 4'
DRAWING NO. 2024006-19

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	BID SET	12/12/24	AZD	TA

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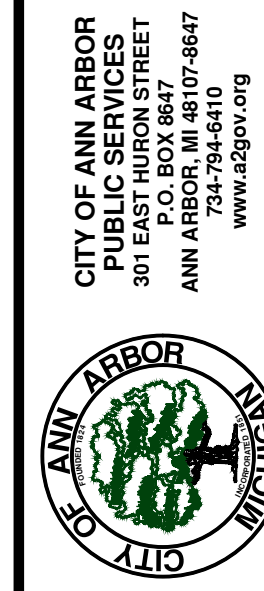
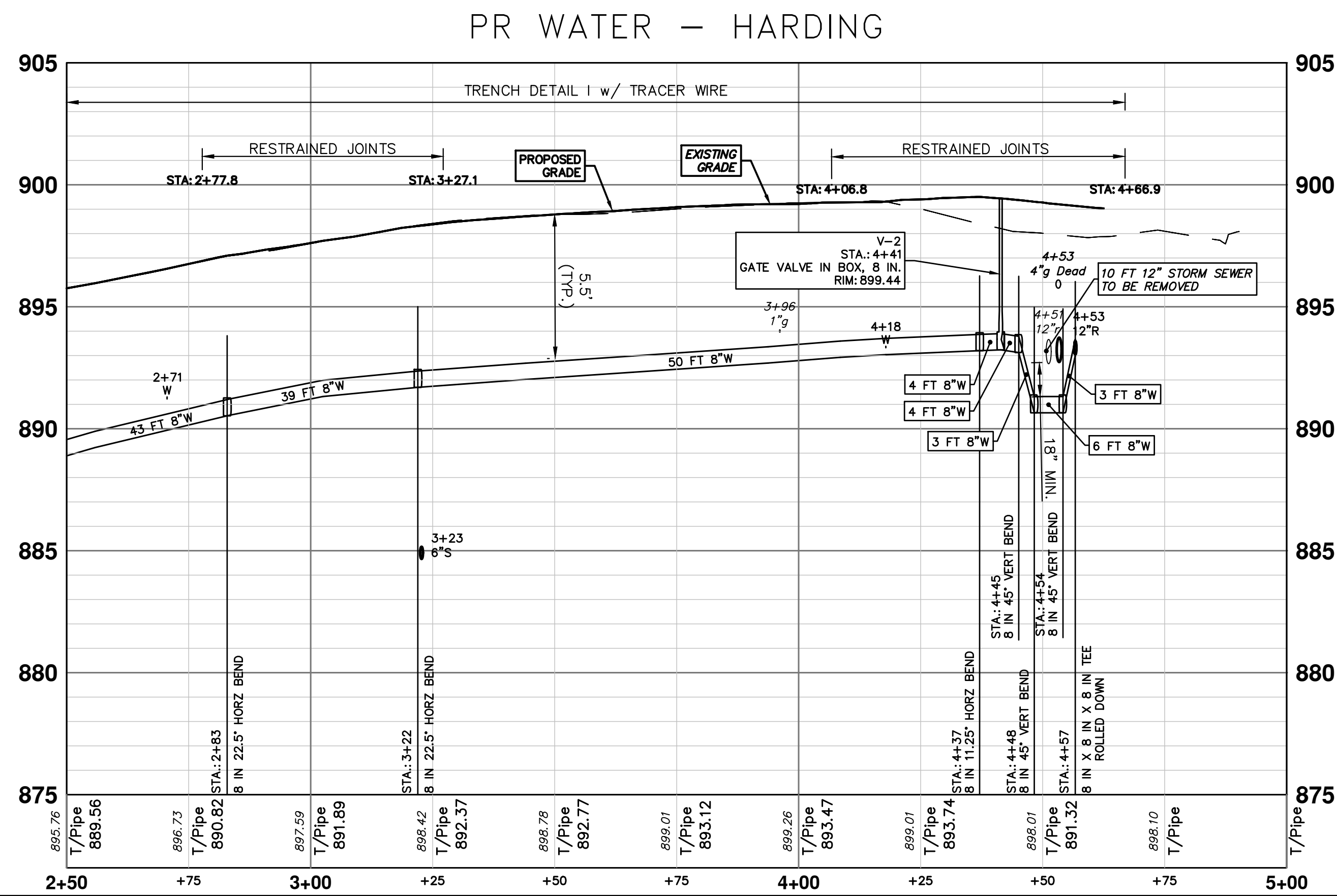


WATER MAIN STRUCTURES

STRUCTURE	TYPE	STATION	RIM
V-2	Gate Valve in Box, 8 In.	4+41	899.44
V-3	Gate Valve in Box, 8 In.	4+57	898.79

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"

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.



811
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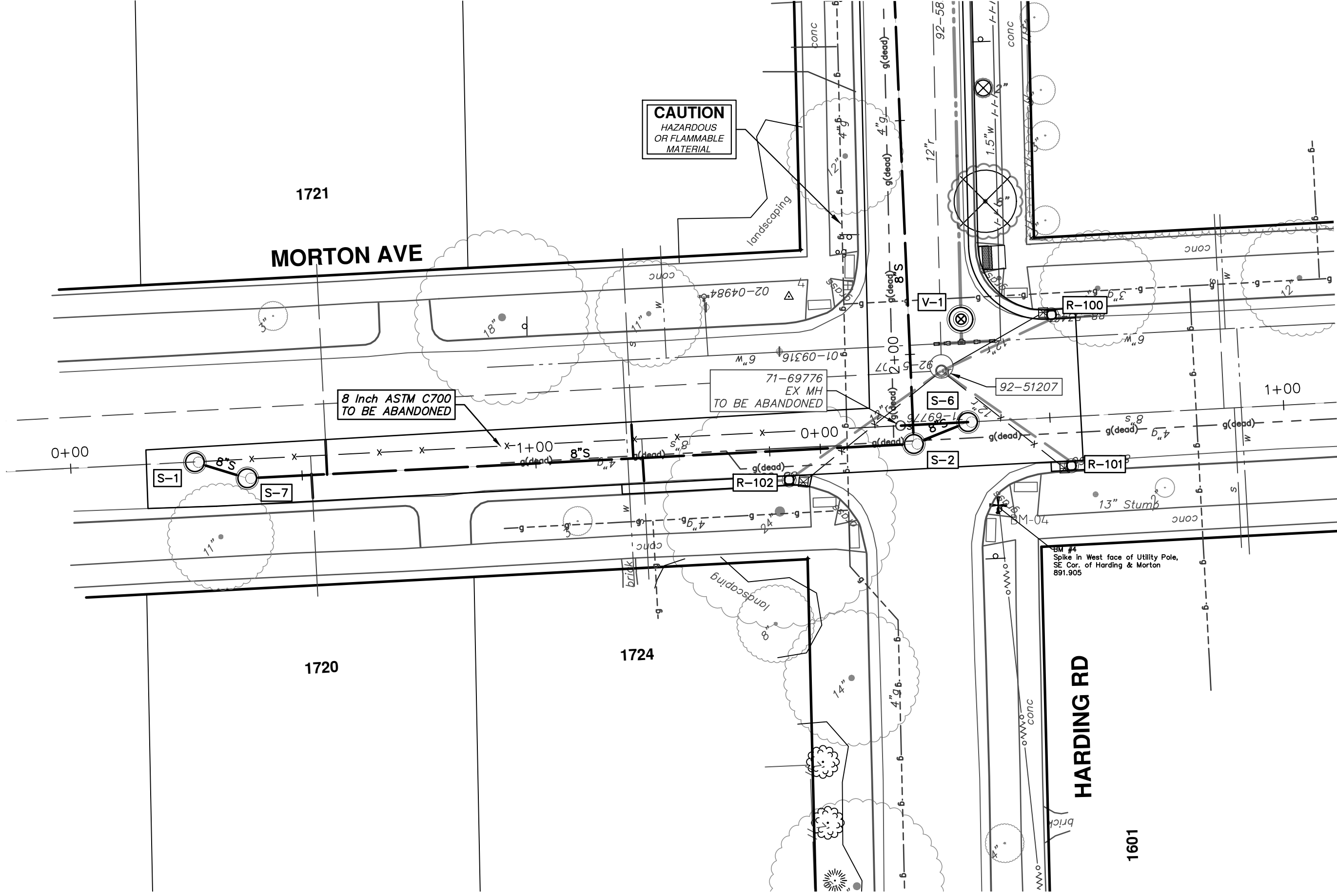
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01	BID SET	12/12/24	AZD	TA

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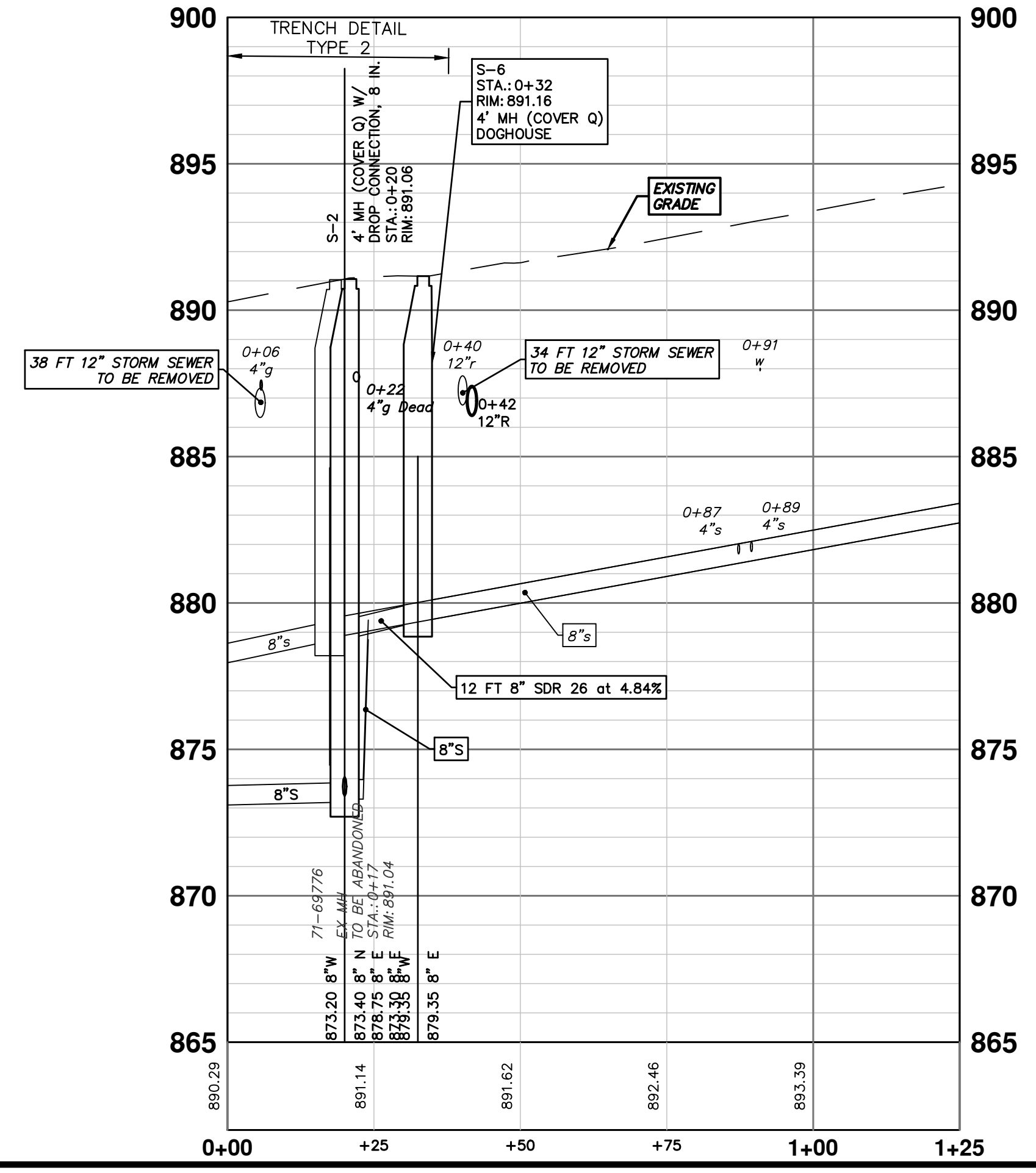
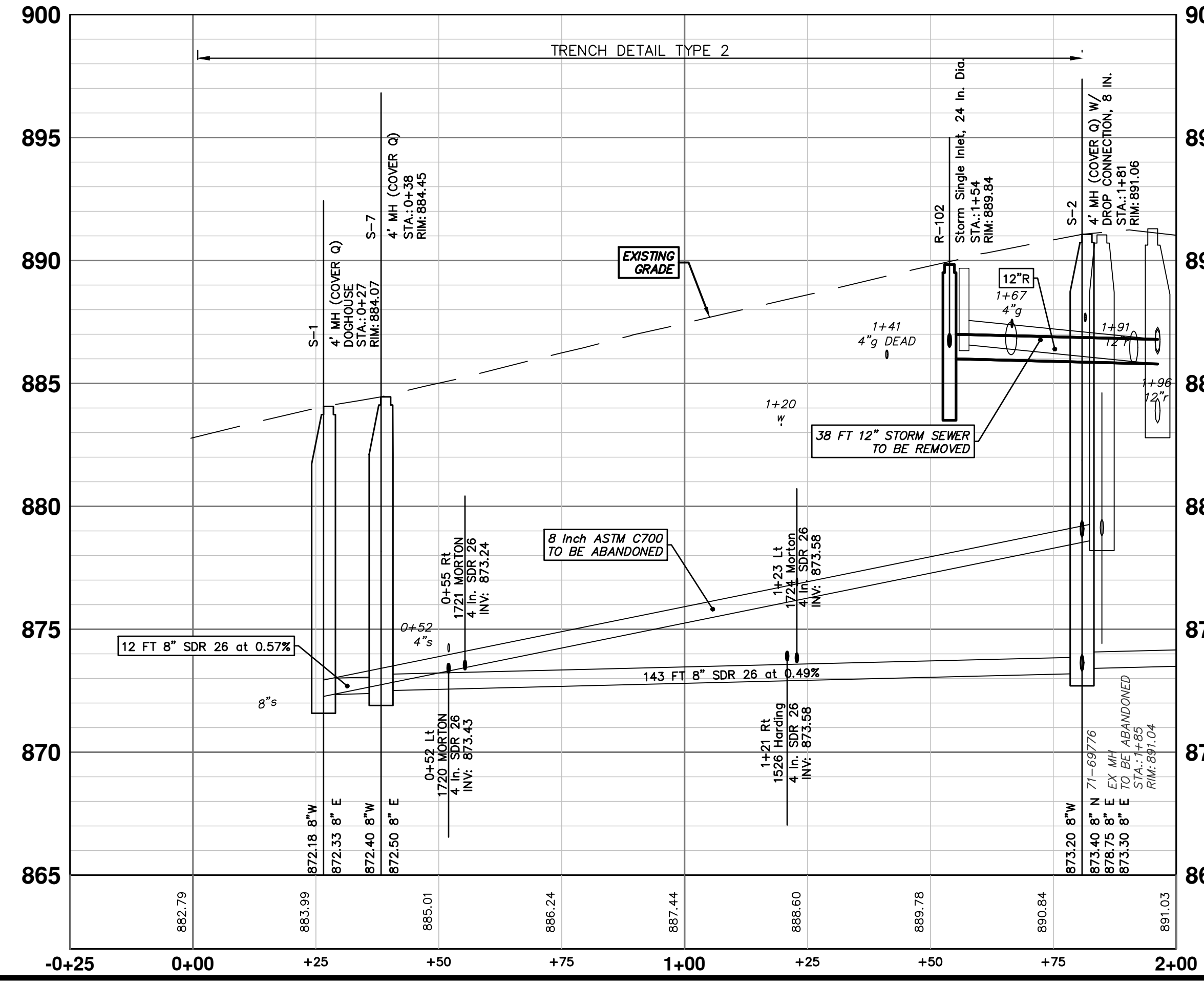
THE CONTRACTOR SHALL MAINTAIN FLOW IN THE EXISTING SANITARY SEWER AT ALL TIMES BY BYPASS PUMPING, AS NECESSARY. DURING WET WEATHER EVENTS, THE FLOW IN THE SANITARY SEWER WILL RISE RAPIDLY AND MAY BECOME SURCHARGED. THE CONTRACTOR SHALL MAINTAIN FLOW IN SUCH A MANNER AS THE EXISTING FLOW CAN BE ADEQUATELY TRANSPORTED, INCLUDING WET WEATHER FLOW.

THE CONTRACTOR SHALL SUBMIT A DETAILED BYPASS PUMPING MANAGEMENT PLAN TO BE REVIEWED AND APPROVED BY THE ENGINEER, PRIOR TO ANY OBSTRUCTION OF FLOWS IN THE SANITARY SEWER. THE CONTRACTOR SHALL PLAN HIS OPERATION SUCH THAT THERE WILL BE NO BACKUPS, LEAKS OR DISCHARGES OF SEWERAGE. THE CONTRACTOR WILL BE COMPLETELY RESPONSIBLE FOR ALL CLEANUP OF BACKUPS, LEAKS OR DISCHARGES OF SEWERAGE.

THE CONTRACTOR SHALL ALSO FURNISH AND HAVE AVAILABLE ON-SITE; REDUNDANT PUMPING FACILITIES IN CASE OF ANY FAILURE OF THE PUMPING SYSTEM INCLUDING PUMPS, PIPING, POWER SOURCE, ELECTRICAL CONNECTIONS, ETC. REDUNDANT PUMPING FACILITIES ALSO INCLUDE HAVING A BACKUP POWER GENERATOR IN CASE THE PRIMARY POWER SOURCE FAILS. THE CONTRACTOR SHALL PROVIDE AND ADEQUATE LABOR FORCE TO OVERSEE THE BYPASS PUMPING INCLUDING PROVIDING LABOR TO MAINTAIN 24 HOUR PER DAY OPERATION AND EMERGENCY BACKUP SERVICE, IF NECESSARY. THE CONTRACTOR WILL NOT BE ABLE TO OBSTRUCT FLOWS IN THE SEWER UNLESS THE PRIMARY AND REDUNDANT EQUIPMENT IS ON-SITE AND IN OPERABLE CONDITION. THE BYPASS PUMPING OPERATION SHALL NOT BE PAID FOR SEPARATELY AND SHALL BE INCLUDED IN THE COST OF PAY ITEM FOR "GENERAL CONDITIONS".



STRUCTURE	STATION	RIM	DEPTH	DIA.	TYPE	INVERTS	NOTES
S-1	0+27	884.07	11.98	48	4' MH	8" E 872.33 8" W 872.18	4' MH (Cover Q) DOGHOUSE
S-6	0+32	891.16	11.81	48	4' MH	8" E 879.35 8" W 879.35	4' MH (Cover Q) DOGHOUSE
S-7	0+38	884.45	12.05	48	4' MH	8" E 872.50 8" W 872.40	4' MH (Cover Q)
S-2	1+81	891.06	17.86	48	4' MH	8" N 873.40 8" E 878.75 8" E 873.30 8" W 873.20	4' MH (Cover Q) w/ Drop Connection, 8 in.



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2025 MISCELLANEOUS UTILITY PROJECTS

SANITARY SEWER - HARDING RD

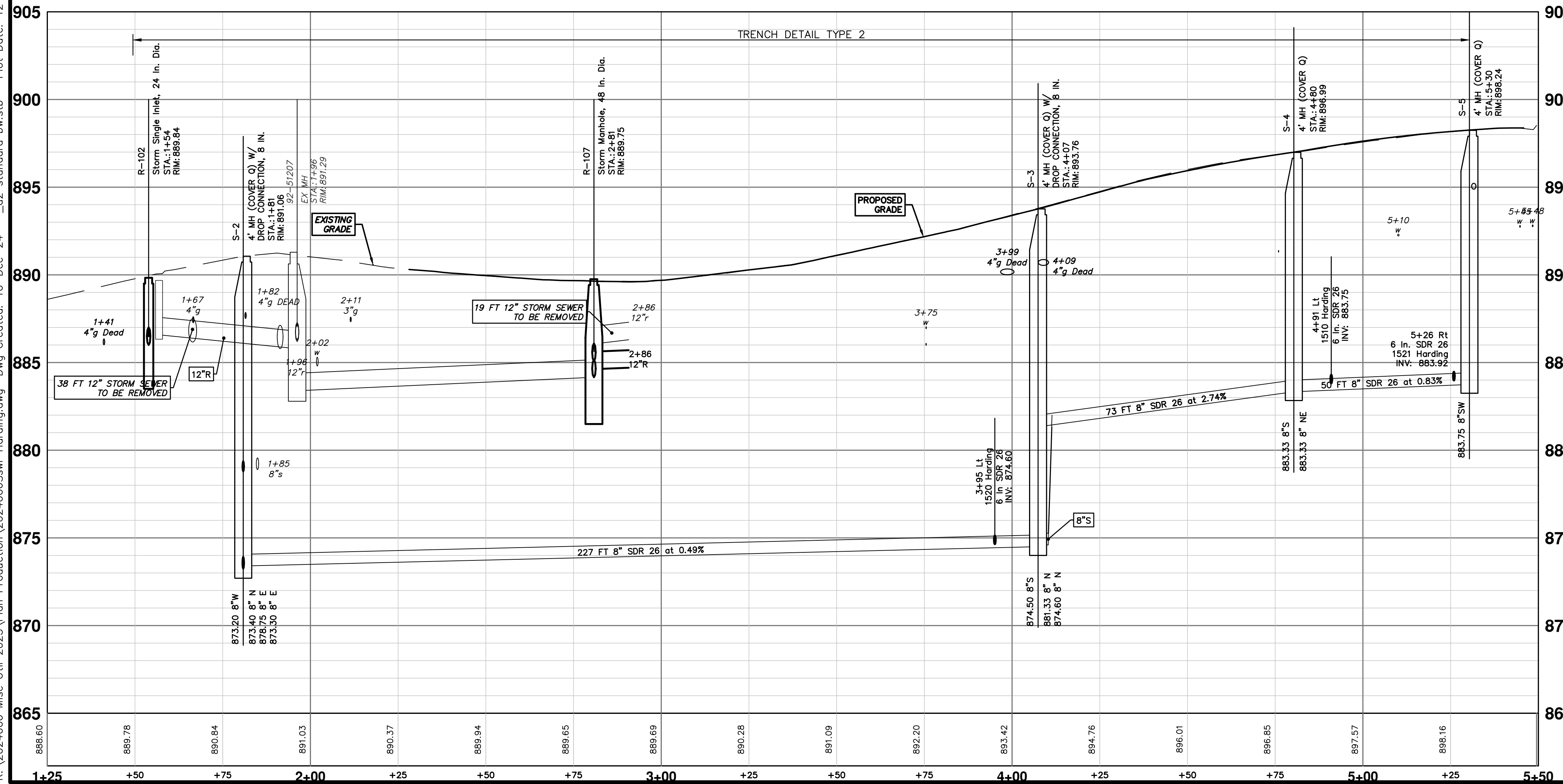
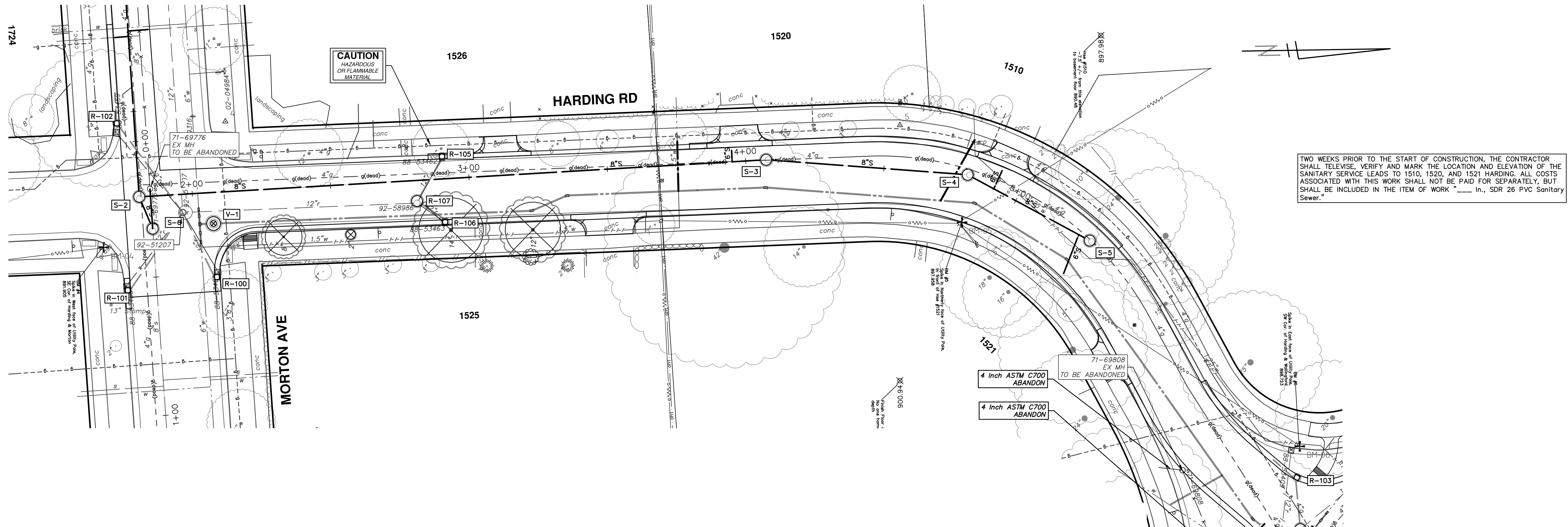
STA. 0+00 - STA. 3+75

SHEET No. **21 OF 52**

SCALE PLAN: 1" = 20'
PROFILE: 1" = 4'

DRAWING No. **2024006-21**

R:\2024006 Misc Util 2025\Plan Production\2024006Saw_Harding.dwg Dwg Created: 10-Dec-24 - _o2_standard.bw.stb - Plot Date: 12-Dec-24



SANITARY SEWER STRUCTURE TABLE							
STRUCTURE	STATION	RIM	DEPTH	DIA.	TYPE	INVERTS	NOTES
S-2	1+81	891.06	17.86	48	4' MH	8" N 873.40 8" E 878.75 8" W 873.20	4' MH (Cover Q) w/ Drop Connection, 8 in.
S-3	4+07	893.76	19.26	48	4' MH	8" N 881.33 8" N 874.60 8" S 874.50	4' MH (Cover Q) w/ Drop Connection, 8 in.
S-4	4+80	896.99	13.65	48	4' MH	8" NE 883.33 8" S 883.33	4' MH (Cover Q)
S-5	5+30	898.24	14.49	48	4' MH	8" SW 883.75	4' MH (Cover Q)

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SCALE PLAN: 1" = 20'
PROFILE: 1" = 4'

DRAWING No. **2024006-22**

SHEET No. **22 OF 52**

2025 MISCELLANEOUS UTILITY PROJECTS

SANITARY SEWER - HARDING RD

STA. 1+49 - STA. 4+85

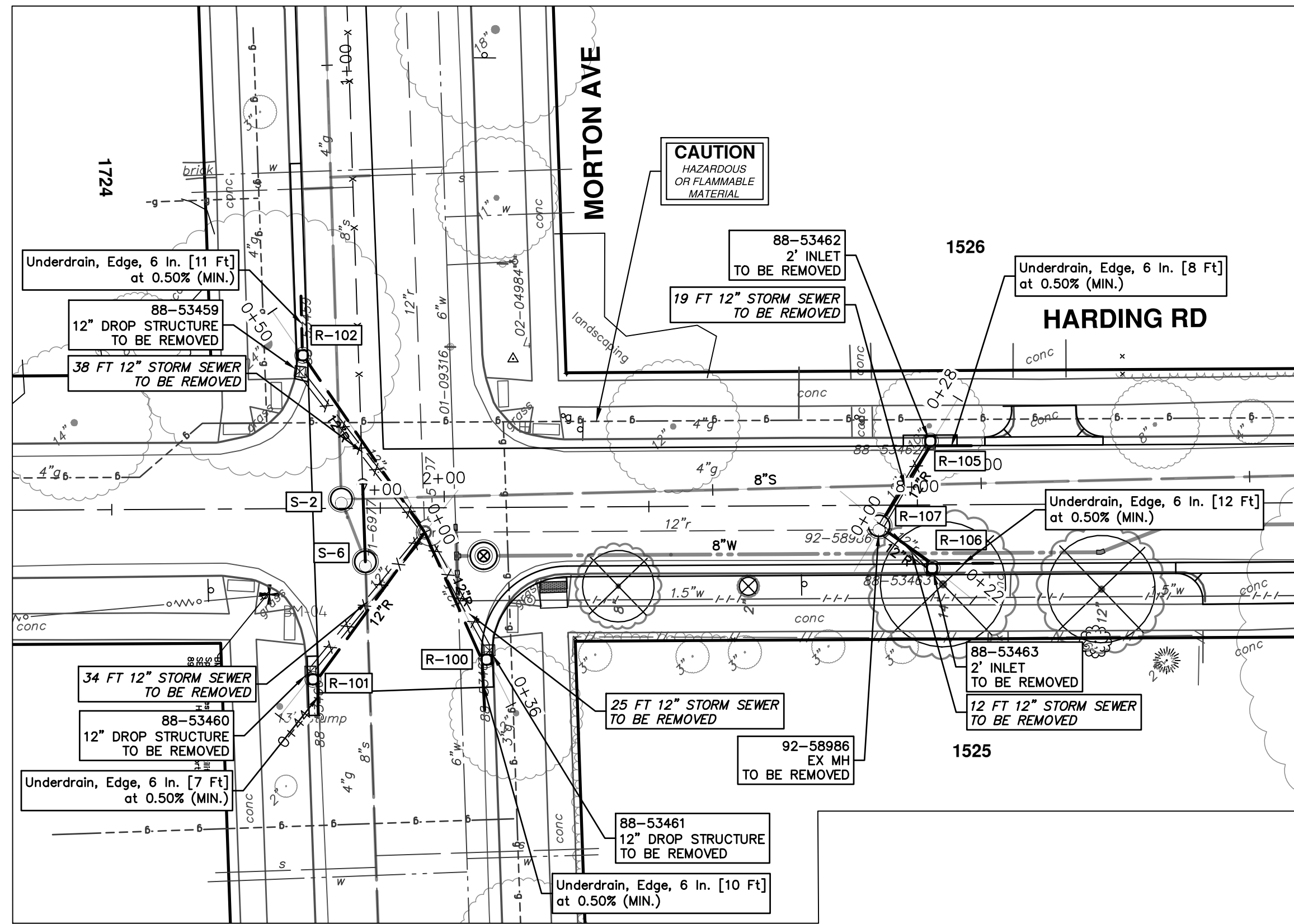
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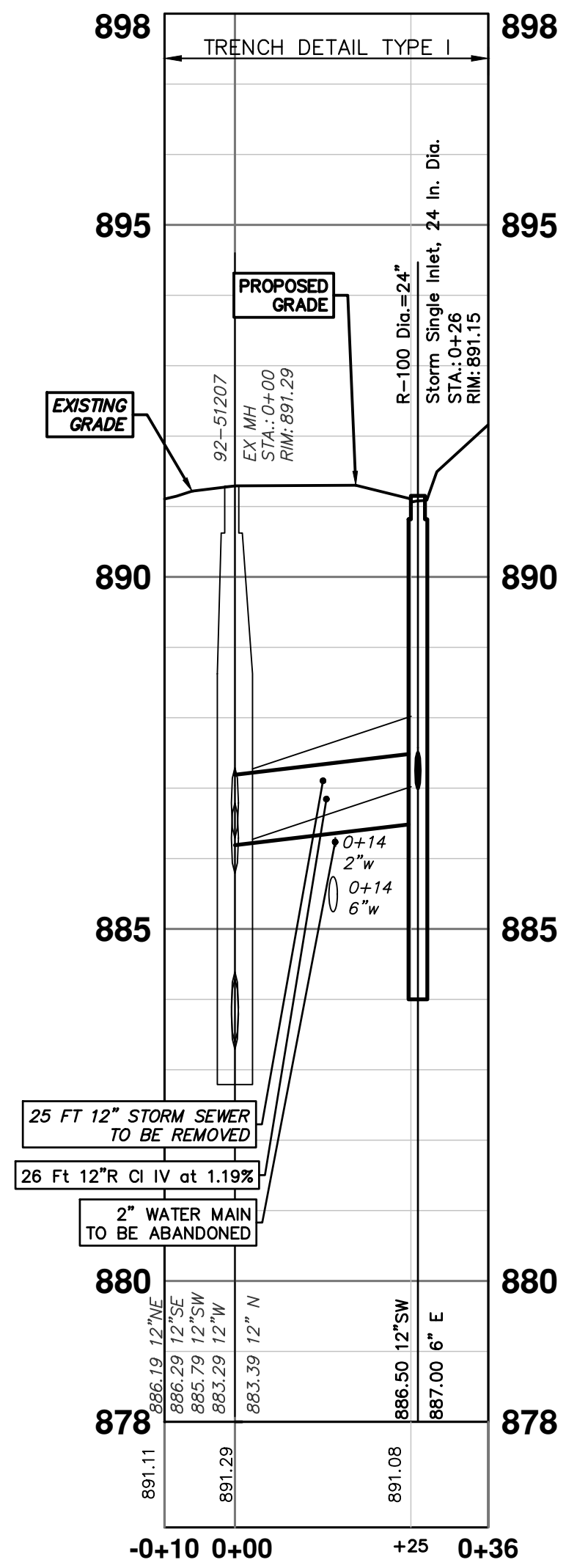
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EXISTING STORM SEWER STRUCTURE REMOVAL TABLE		
STRUCTURE	DEPTH (Feet)	REMOVE
88-53459	3.10	12" Drop Structure TO BE REMOVED
88-53461	3.84	12" Drop Structure TO BE REMOVED
88-53460	3.70	12" Drop Structure TO BE REMOVED
88-53462	2.70	2' Inlet TO BE REMOVED
88-53463	2.41	2' Inlet TO BE REMOVED
92-58986	5.70	EX MH TO BE REMOVED

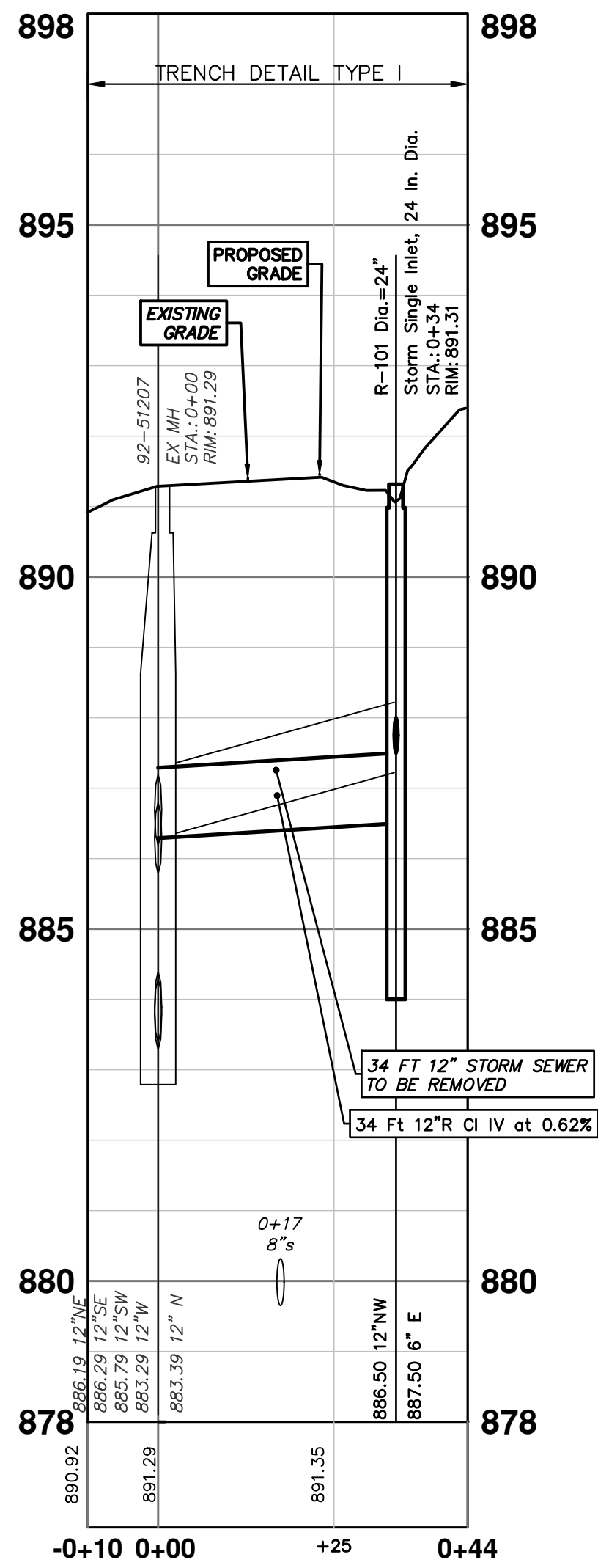


STORM SEWER STRUCTURE TABLE						
STRUCTURE	UTILITY STATION	TYPE	RIM	INVERTS	DEPTH (Feet)	SUMP
R-100	0+26	Storm Single Inlet, 24 In. Dia.	891.15	6" E 887.00 12" SW 886.50	6.65	2'
R-101	0+34	Storm Single Inlet, 24 In. Dia.	891.31	6" E 887.50 12" NW 886.50	6.81	2'
R-102	0+40	Storm Single Inlet, 24 In. Dia.	889.84	6" W 886.50 12" NE 886.00	5.84	2'
R-105	0+17	Storm Single Inlet, 24 In. Dia.	889.11	6" N 886.12 12" SE 884.70	6.40	2'
R-106	0+12	Storm Single Inlet, 24 In. Dia.	889.58	12" SW 885.14 6" N 885.72	6.44	2'
R-107	0+00	Storm Manhole, 48 In. Dia.	889.75	12" NW 884.62 12" NE 885.09 12" S 884.16	7.59	2'

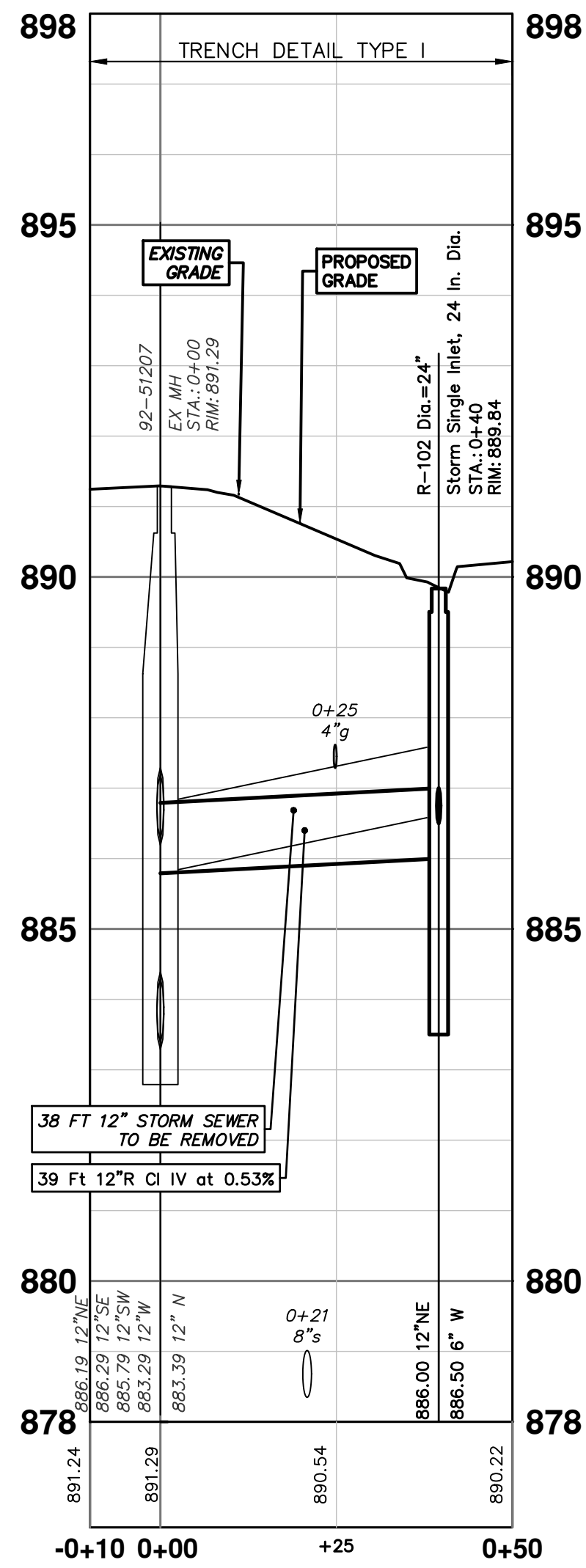
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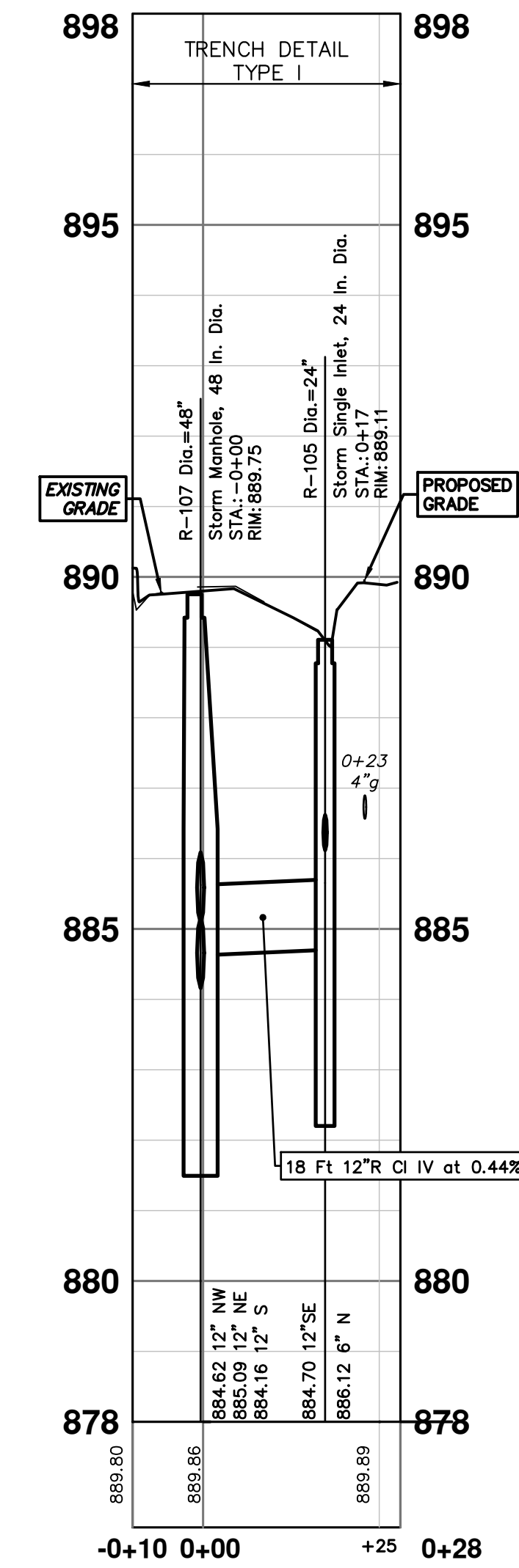
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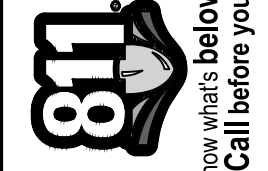
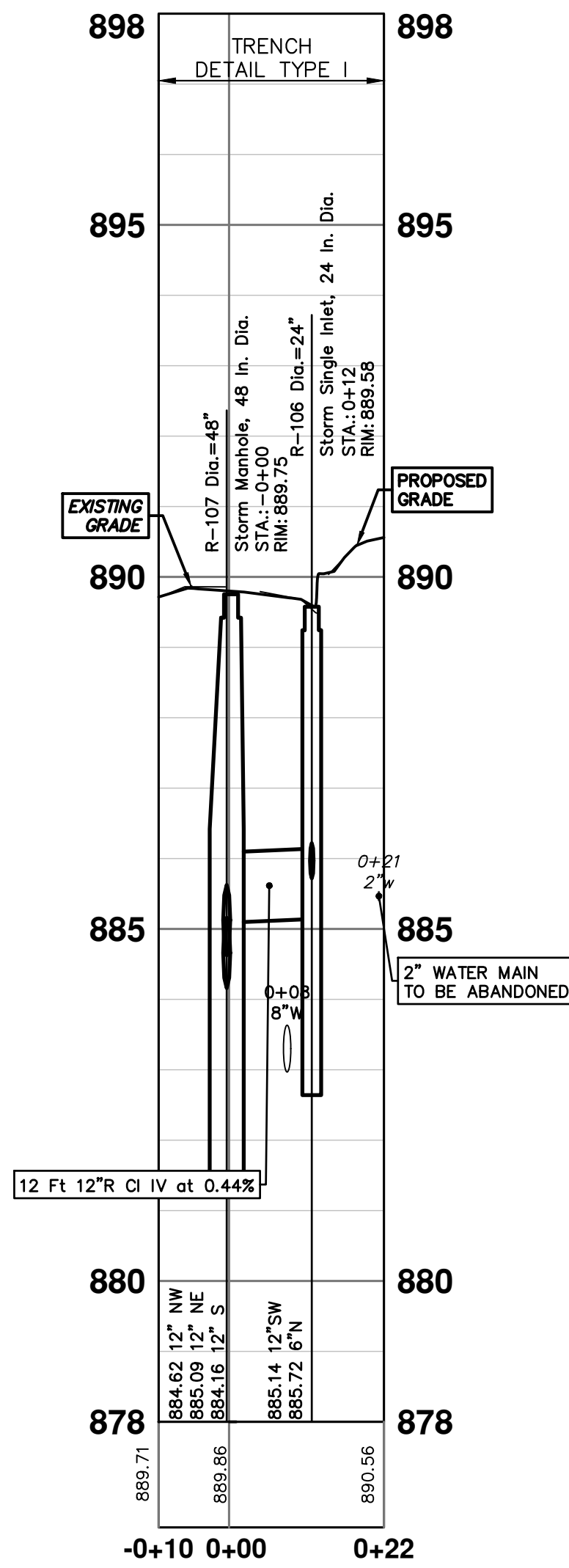
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R-107 - R-105



R-107 - R-106



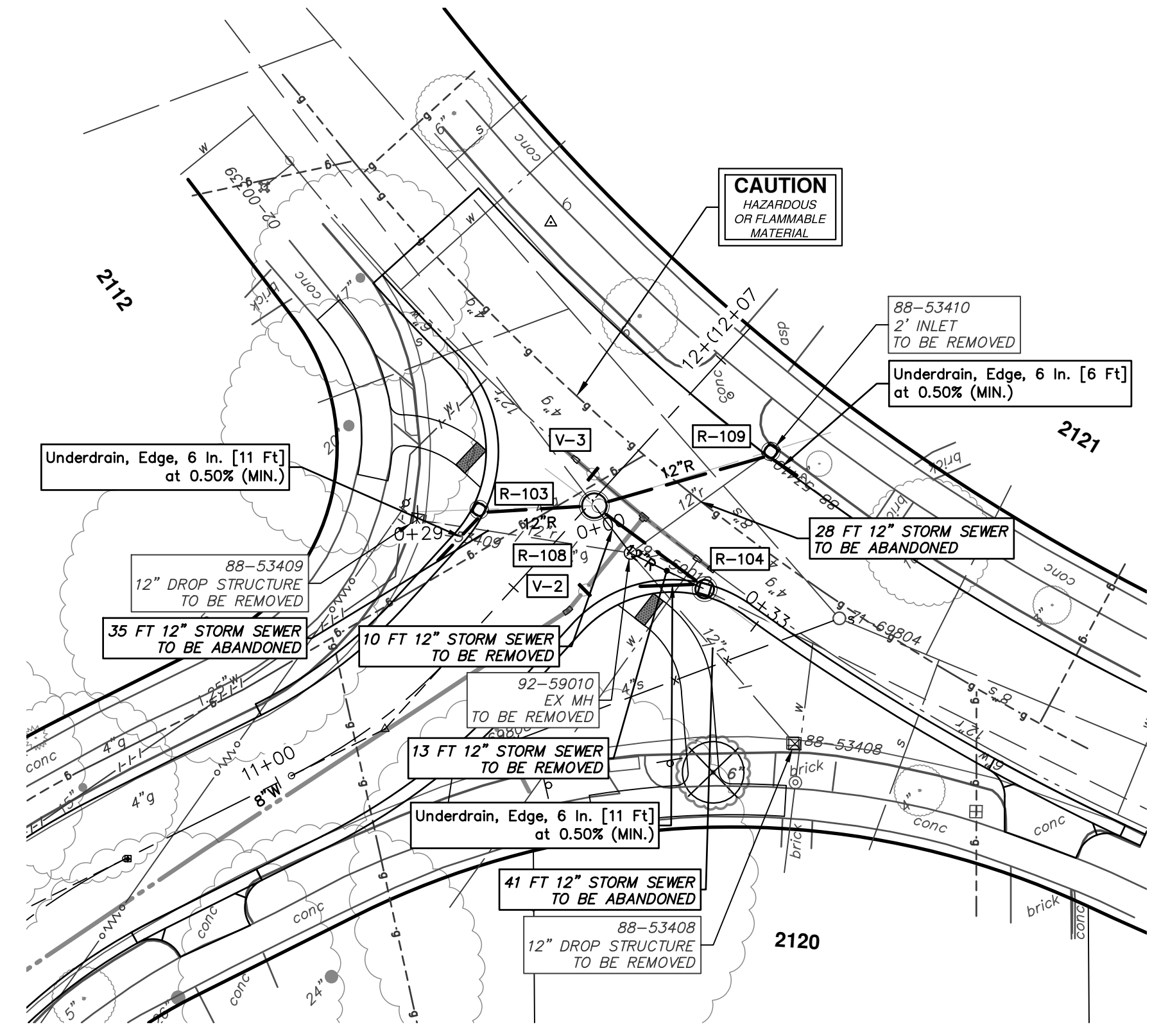
REV.	DESCRIPTION	DATE	DRAWN	CHECKED
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2025 MISCELLANEOUS UTILITY PROJECTS
STORM SEWER - HARDING RD
R-100 - R-102, R-105 - R-107

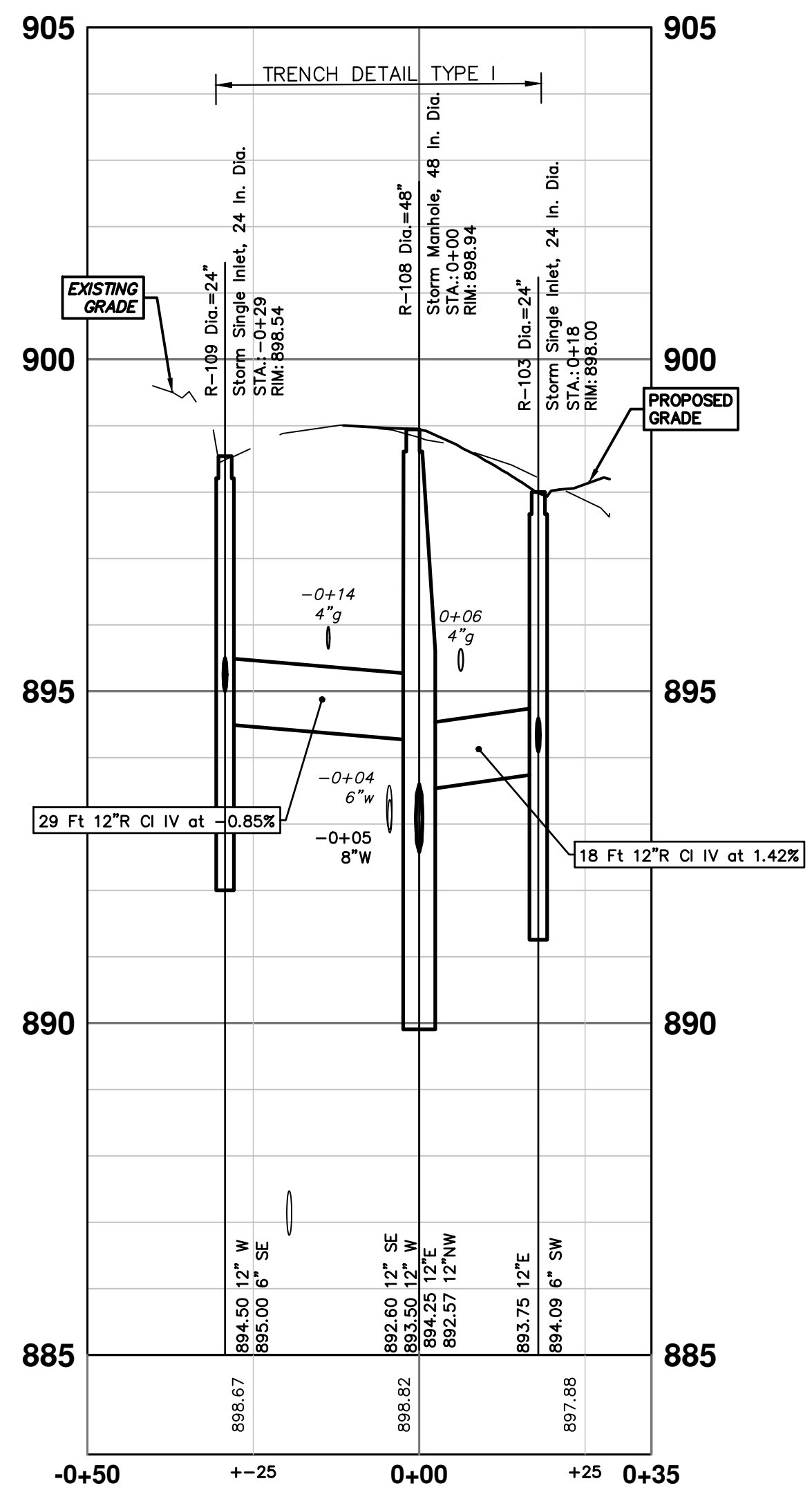
SCALE PLAN: 1" = 20'
PROFILE: 1" = 4'
DRAWING No. 2024006-23
SHEET No. 23 OF 52



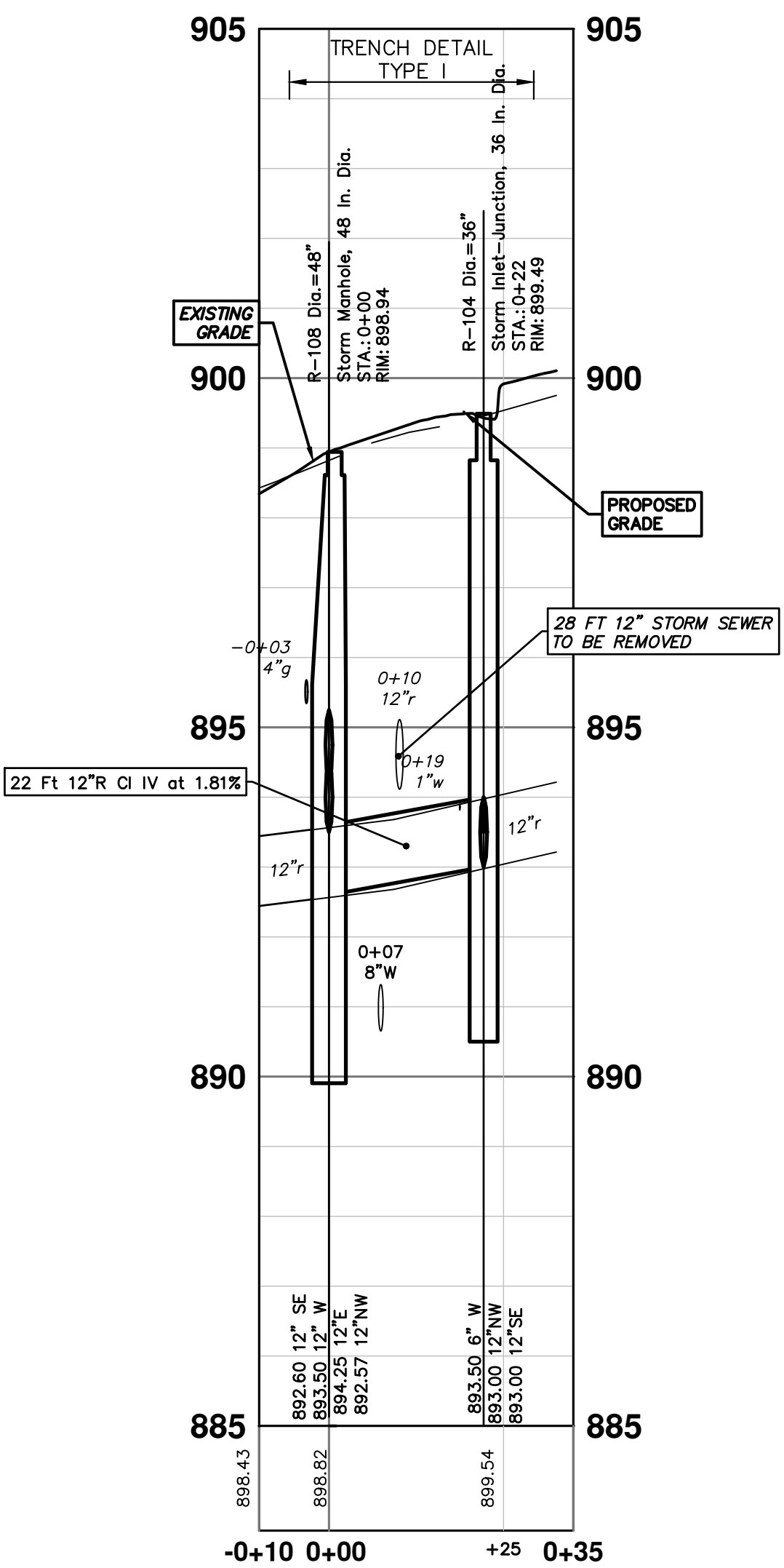
STRUCTURE	DEPTH (Feet)	REMOVE
88-53409	2.51	12" Drop Structure TO BE REMOVED
88-53410	3.11	2' Inlet TO BE REMOVED
88-53408	4.14	12" Drop Structure TO BE REMOVED
92-59010	6.51	EX MH TO BE REMOVED

STRUCTURE	UTILITY STATION	TYPE	RIM	INVERTS	DEPTH (Feet)	SUMP
R-103	0+18	Storm Single Inlet, 24 In. Dia.	898.00	6" SW 894.09 12" E 893.75	6.25	2'
R-104	0+22	Storm Inlet-Junction, 36 In. Dia.	899.49	6" W 893.50 12" NW 893.00 12" SE 893.00	8.49	2'
R-108	0+00	Storm Manhole, 48 In. Dia.	898.94	12" SE 892.60 12" W 893.50 12" E 894.25 12" NW 892.57	8.37	2'
R-109	0+29	Storm Single Inlet, 24 In. Dia.	898.54	12" W 894.50 6" SE 895.00	6.04	2'

R-109 - R-108 - R-103



R-108 - R-104



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2025 MISCELLANEOUS UTILITY PROJECTS

STORM SEWER - HARDING RD

R-103, R-104

SCALE PLAN: 1" = 20'
PROFILE: 1" = 4'

DRAWING No. 2024006-24

SHEET No. 24 OF 52

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DESCRIPTION

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DATE 12/12/24

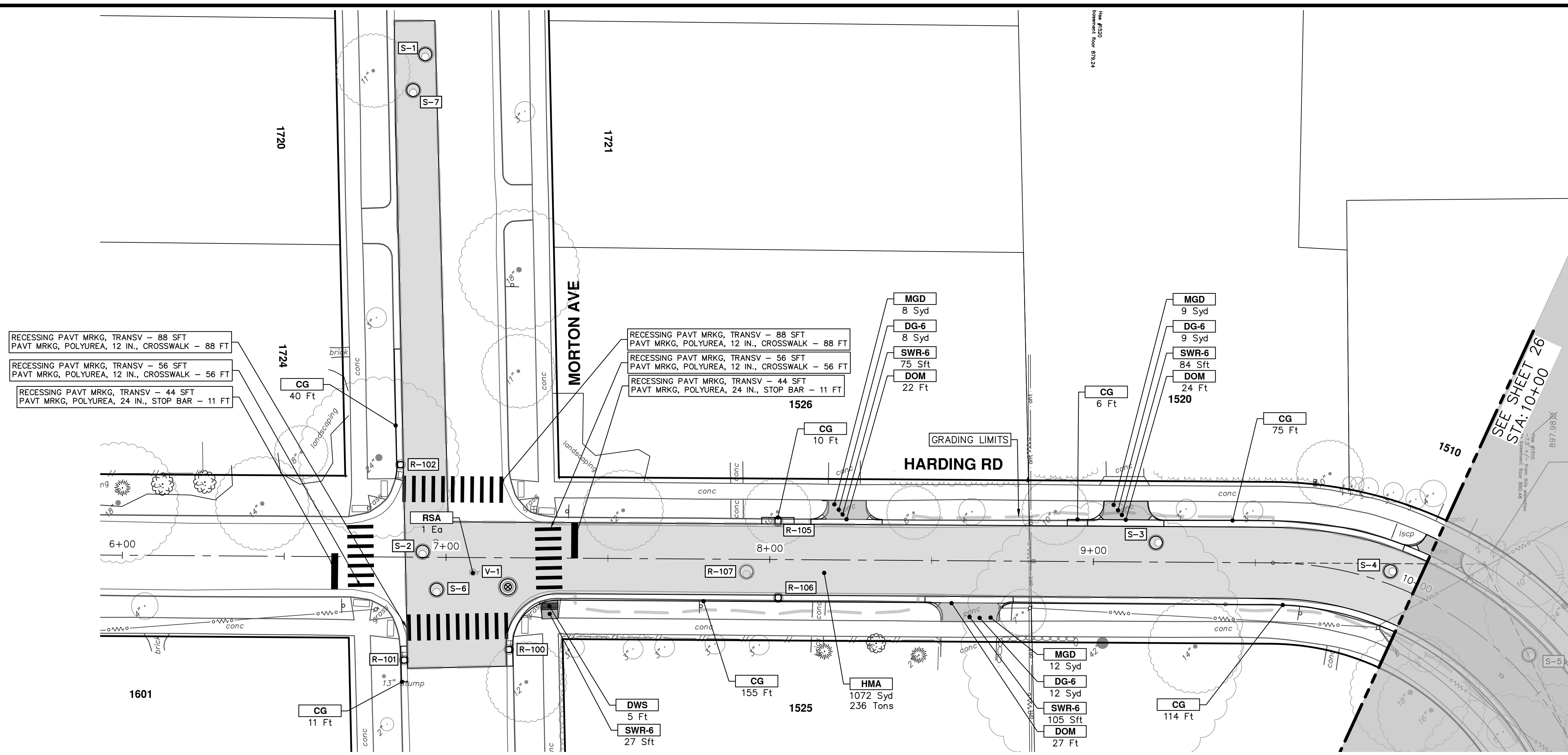
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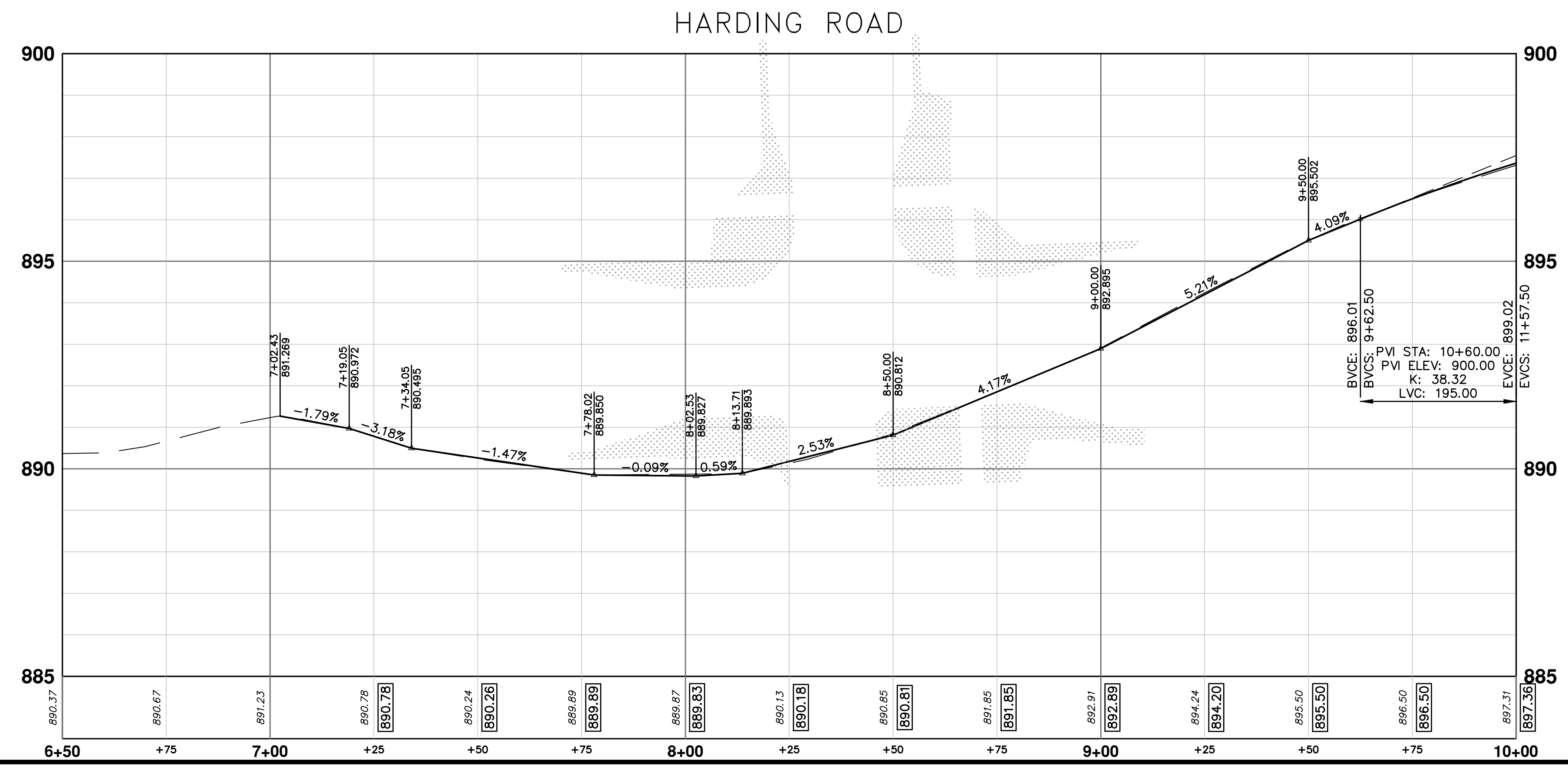
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CONSTRUCTION KEY	
KEY	DESCRIPTION
HMA	PLACE HMA, PLACE MATERIAL IN LIFTS ACCORDING TO THE TYPICAL SECTION AND AS DIRECTED BY THE ENGINEER.
HMA APP	HMA Approach
HP	Hand Patching
CG	Conc, Curb or Curb & Gutter, All Types
DOM	Conc, Driveway Opening, Type M
DOM-HE	Conc, Driveway Opening, Type M, High Early
DG-6	DRIVEWAY GRAVEL 6 INCH 21AA LIMESTONE, C.I.P.
MGD	MACHINE GRADING, DRIVEWAY
SW-4	Conc, Sidewalk, 4 In.
SWR-6	Conc, Sidewalk, Drive Approach, or Ramp, 6 In.
SW6-HE	Conc, Sidewalk, Drive Approach, or Ramp, 6 In., High Early
SW8	Conc, Sidewalk, Drive Approach, or Ramp, 8 In.
DWS	Detectable Warning Surface
ABO	ADJUST BY OTHERS
AMB	Monument Box, Adjust
AGB	Gate Box, Adjust
RSA	Storm Structure Cover, Adjust
SSA	Sanitary Structure Cover, Adjust
WSA	Water Structure Cover, Adjust

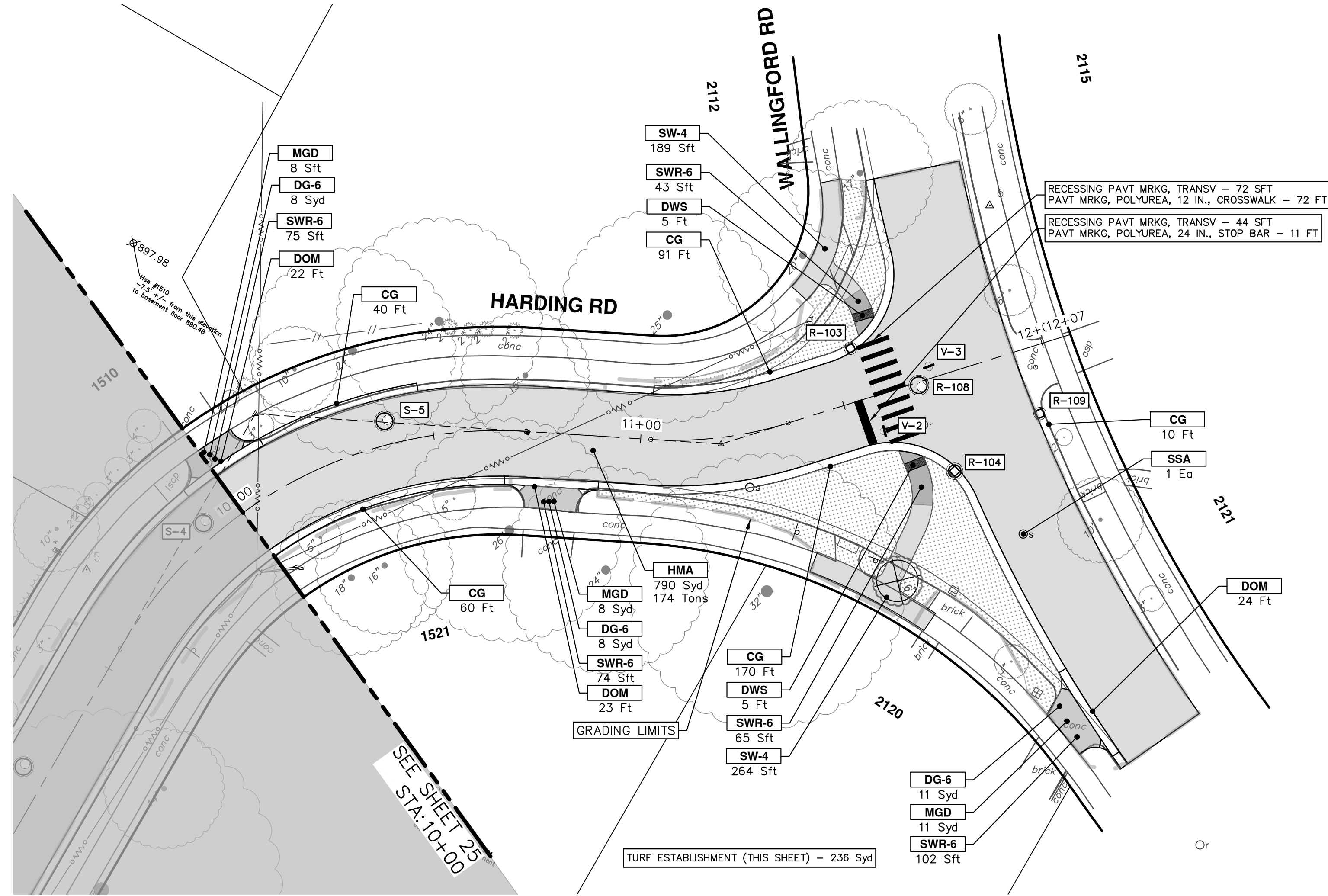


01	BID SET	12/12/24	DATE	DESCRIPTION	CHECKED
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					ADN
					DRAWN

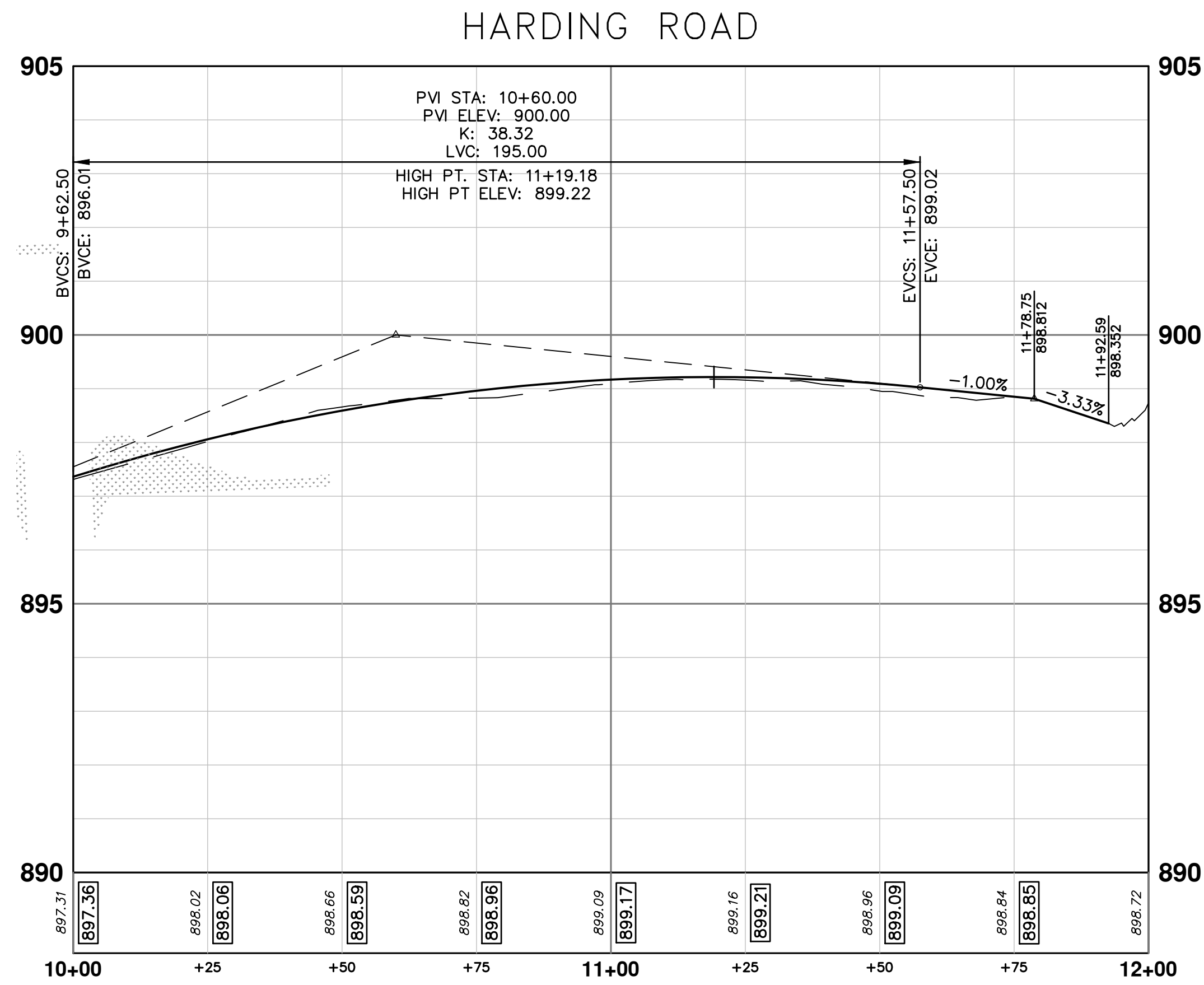
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
2025 MISCELLANEOUS UTILITY PROJECTS
 ROAD PLAN & PROFILE - HARDING RD
 STA. 6+50 - STA. 10+00

SHEET No. **25 OF 52**

SCALE PLAN: 1" = 20'
 PROFILE: 1" = 2'
 DRAWING No. **2024006-25**



CONSTRUCTION KEY	
KEY	DESCRIPTION
HMA	PLACE HMA, PLACE MATERIAL IN LIFTS ACCORDING TO THE TYPICAL SECTION AND AS DIRECTED BY THE ENGINEER.
HMA APP	HMA Approach
HP	Hand Patching
CG	Conc. Curb or Curb & Gutter, All Types
DOM	Conc. Driveway Opening, Type M
DOM-HE	Conc. Driveway Opening, Type M, High Early
DG-6	DRIVEWAY GRAVEL 6 INCH 21AA LIMESTONE, C.I.P.
MGD	MACHINE GRADING, DRIVEWAY
SW-4	Conc. Sidewalk, 4 In.
SWR-6	Conc. Sidewalk, Drive Approach, or Ramp, 6 In.
SW6-HE	Conc. Sidewalk, Drive Approach, or Ramp, 6 In., High Early
SW8	Conc. Sidewalk, Drive Approach, or Ramp, 8 In.
DWS	Detectable Warning Surface
ABO	ADJUST BY OTHERS
AMB	Monument Box, Adjust
AGB	Gate Box, Adjust
RSA	Storm Structure Cover, Adjust
SSA	Sanitary Structure Cover, Adjust
WSA	Water Structure Cover, Adjust



REV.	DATE	DESCRIPTION
01	12/12/24	DATE
		REV.

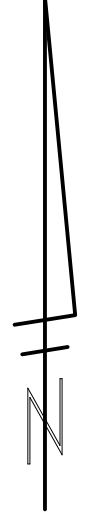
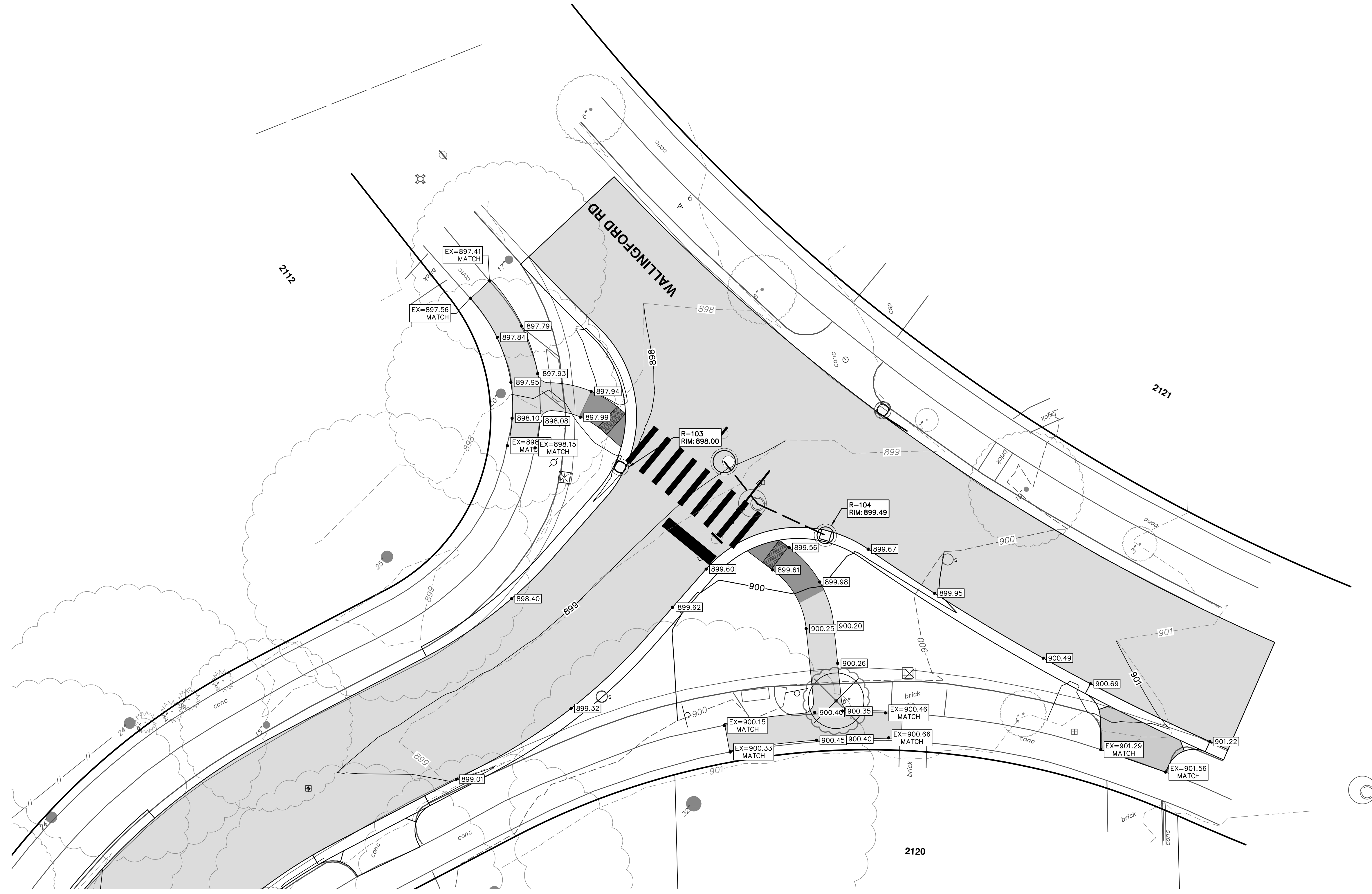
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2025 MISCELLANEOUS UTILITY PROJECTS
ROAD PLAN & PROFILE - HARDING RD

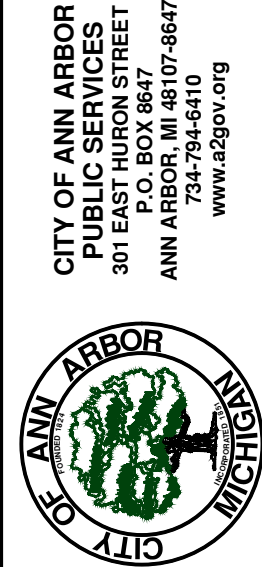
SCALE PLAN: 1" = 20'
PROFILE: 1" = 2'
DRAWING No. 2024006-26
SHEET No. 26 OF 52

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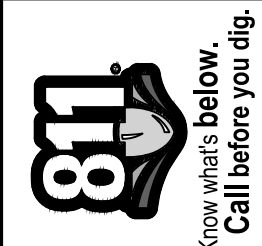
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 SCALE PLAN: 1" = 10'
 DRAWING No. 2024006-27

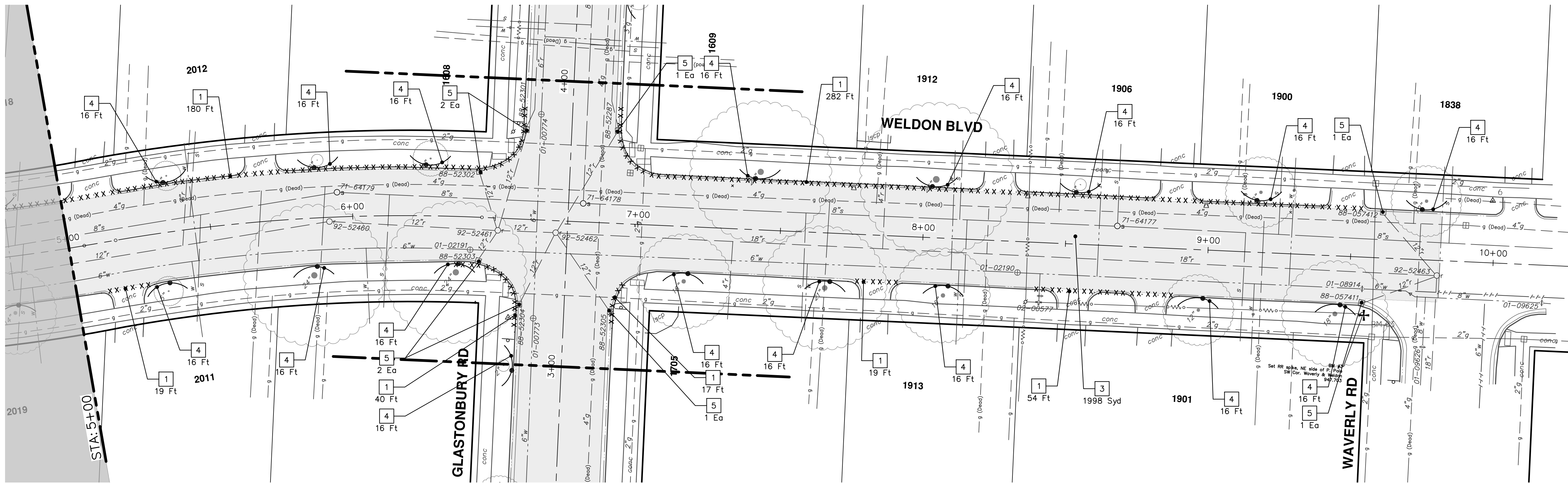
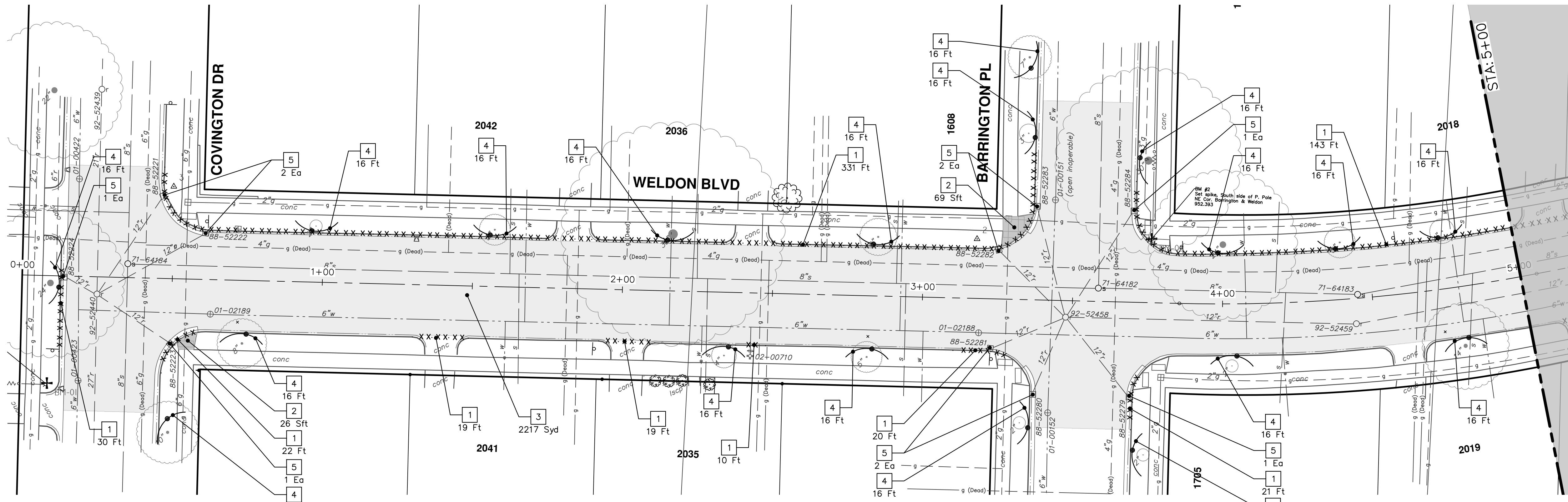
2025 MISCELLANEOUS UTILITY PROJECTS
 ###
 HARDING - WALLINGFORD INTERSECTION GRADING



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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	BID SET	12/12/24	AZD	TA





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.

* SAWCUT FULL DEPTH AT REMOVAL LIMITS AS DIRECTED BY ENGINEER

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2025 MISCELLANEOUS UTILITY PROJECTS

REMOVALS - WELDON BLVD

STA. 0+00 - STA. 10+25

SCALE: 1" = 20'

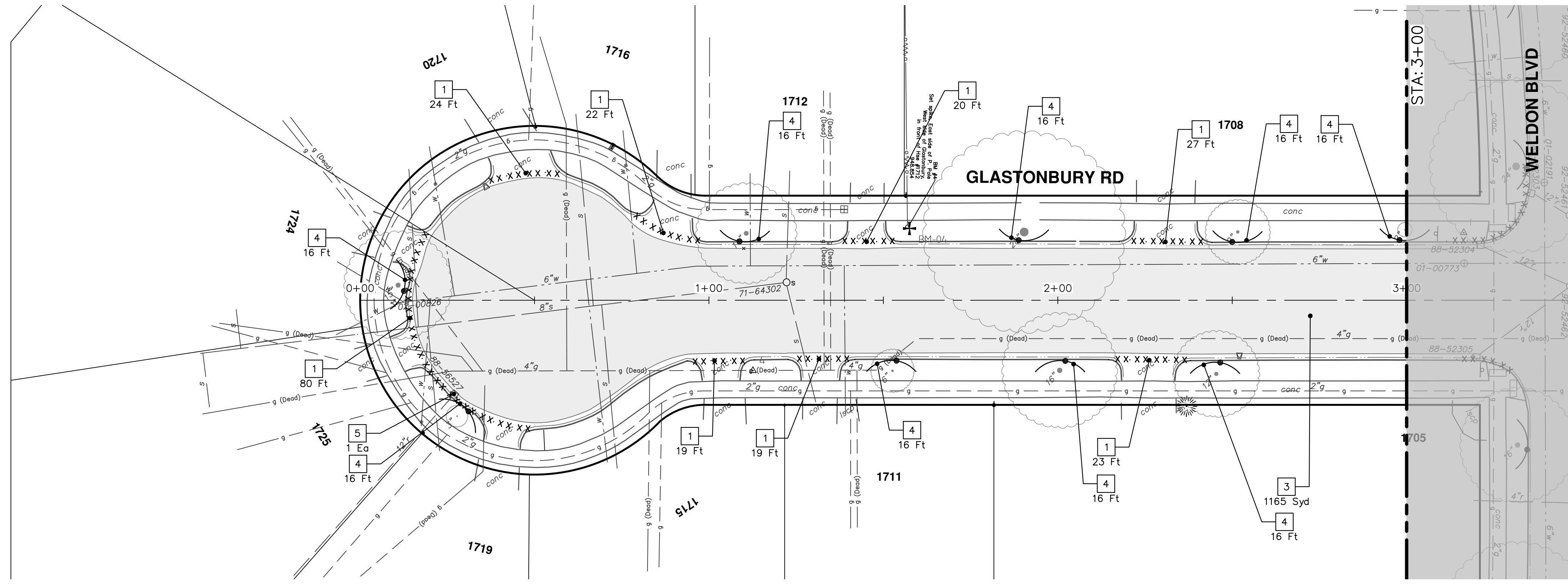
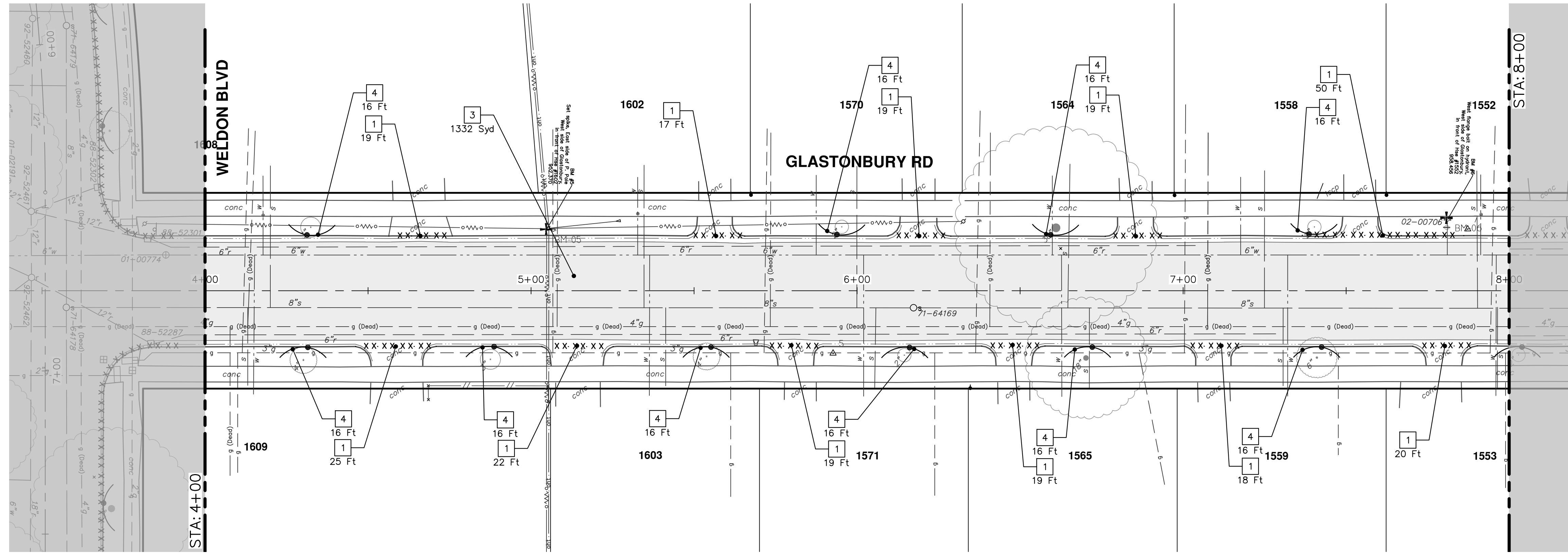
DRAWING No. 2024006-28

SHEET No. 28 OF 52

811
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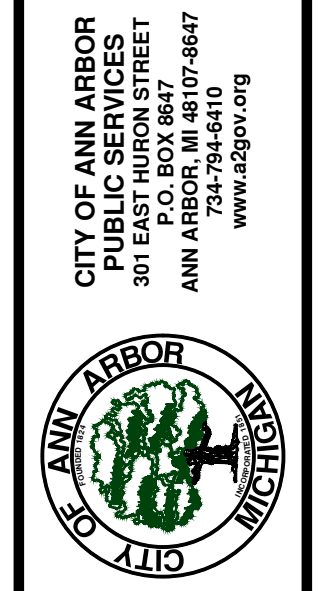
01	BID SET	REV.
12/12/24	DATE	DESCRIPTION
AZD	DRAWN	CHECKED
TA		

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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.

* SAWCUT FULL DEPTH AT REMOVAL LIMITS AS DIRECTED BY ENGINEER

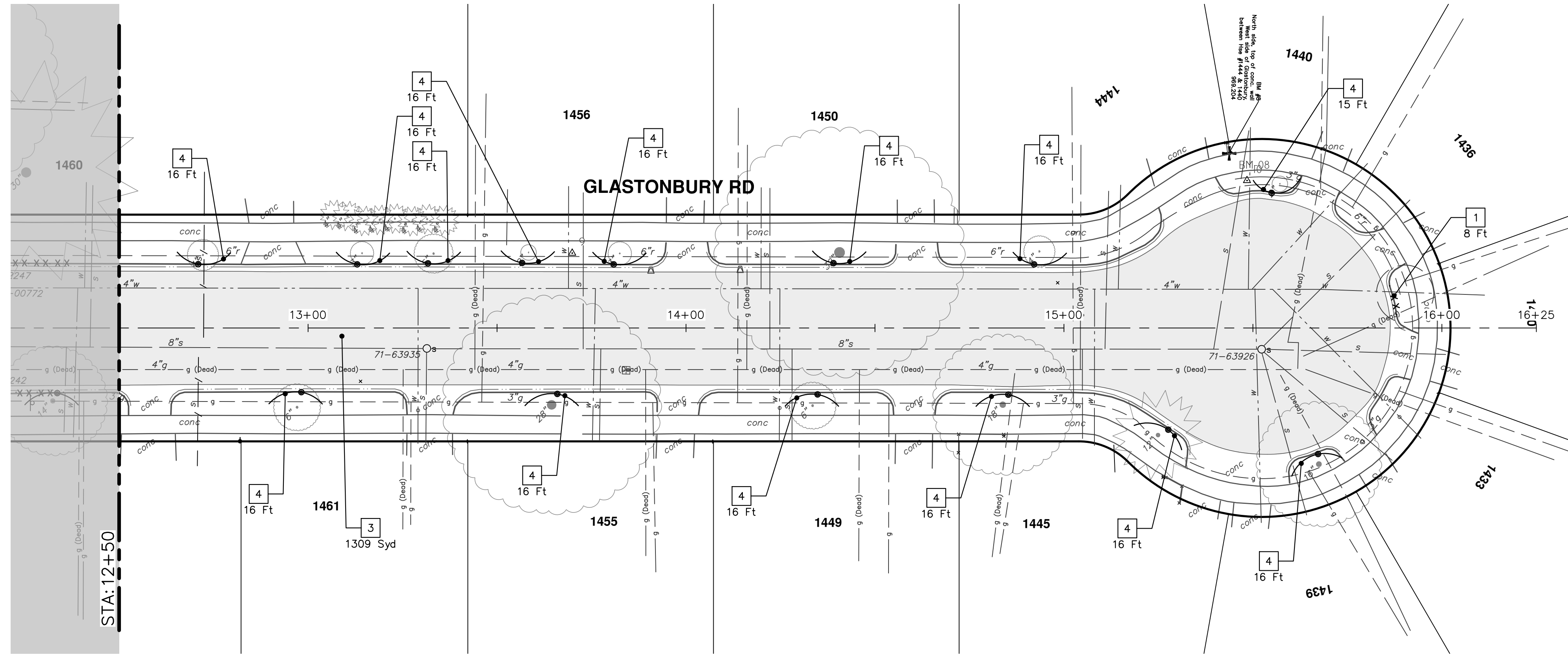
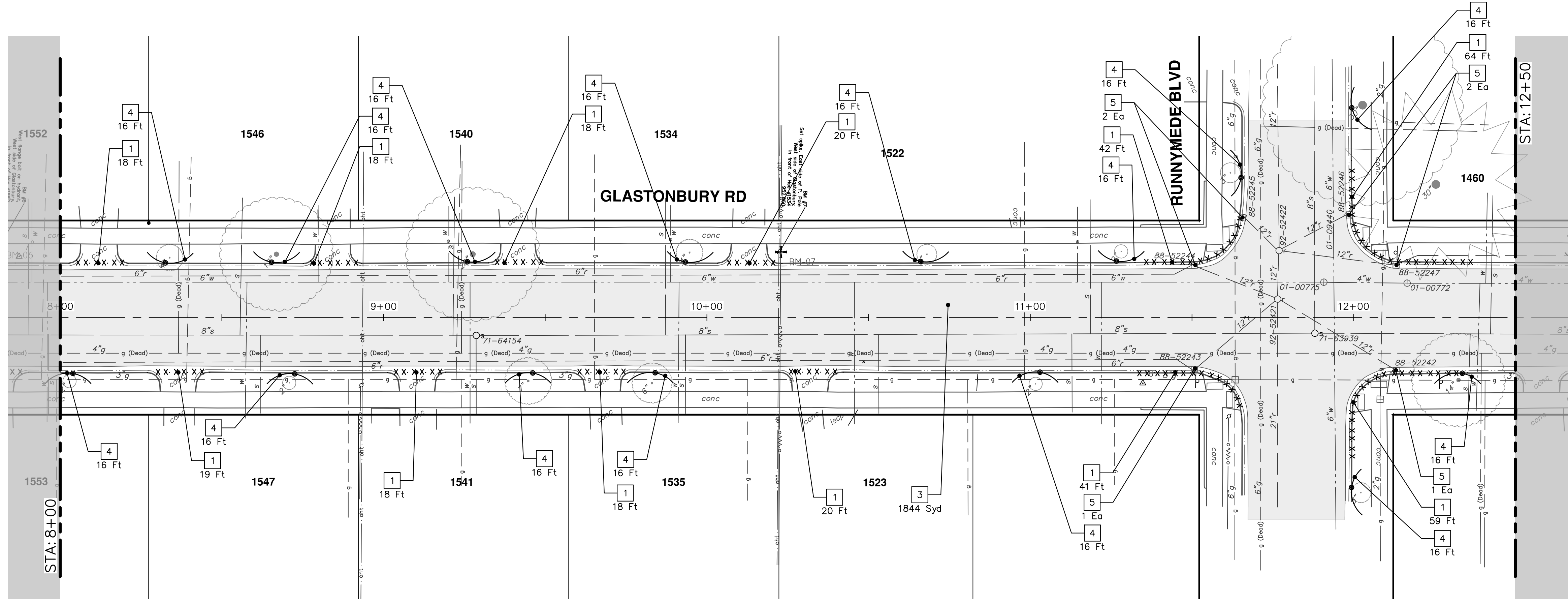


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REV.	DESCRIPTION
01	BID SET
	DATE
	DRAWN
	CHECKED



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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.

* SAWCUT FULL DEPTH AT REMOVAL LIMITS AS DIRECTED BY ENGINEER



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2025 MISCELLANEOUS UTILITY PROJECTS
REMOVALS - GLASTONBURY RD

SCALE: 1" = 20'
DRAWING No. 2024006-30

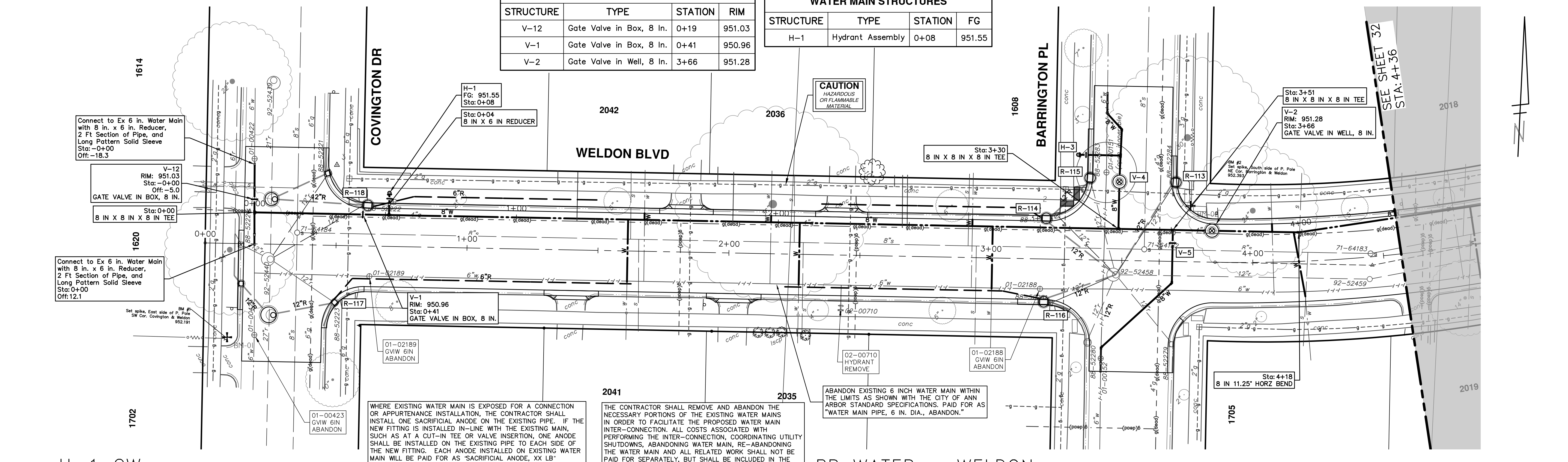
01	BID SET	REV.
12/12/24	DATE	DESCRIPTION
A2D	DRAWN	CHECKED
TA		

STA. 8+00 - STA. 16+02

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WATER MAIN STRUCTURES			
STRUCTURE	TYPE	STATION	RIM
V-12	Gate Valve in Box, 8 In.	0+19	951.03
V-1	Gate Valve in Box, 8 In.	0+41	950.96
V-2	Gate Valve in Well, 8 In.	3+66	951.28

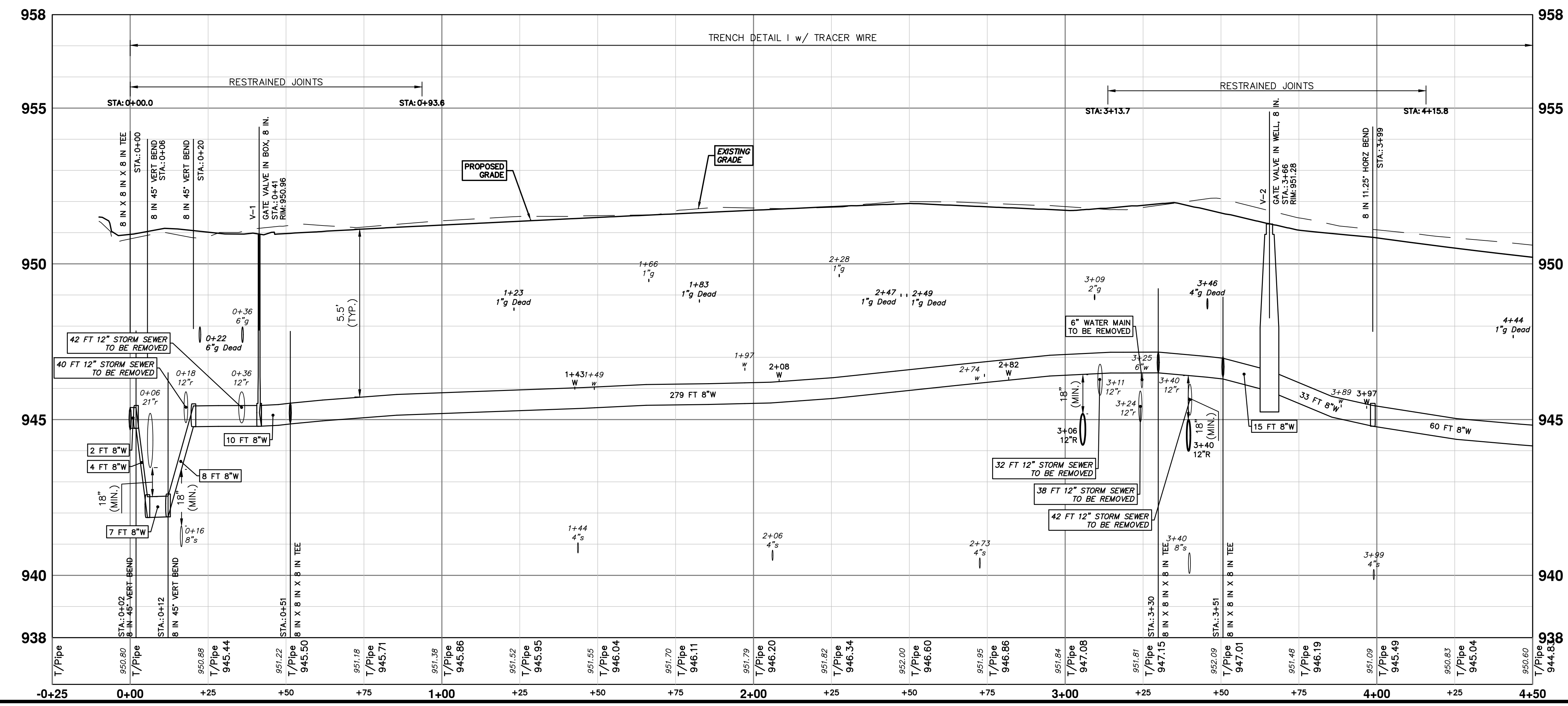
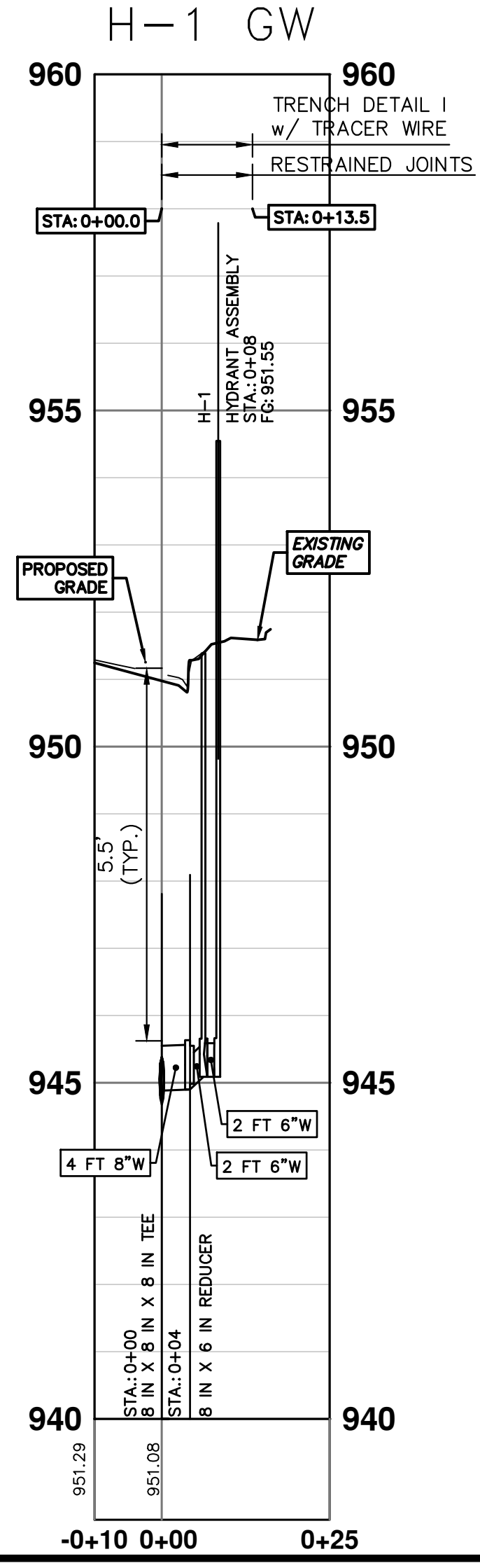
WATER MAIN STRUCTURES			
STRUCTURE	TYPE	STATION	FG
H-1	Hydrant Assembly	0+08	951.55



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"

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.

ABANDON EXISTING 6 INCH WATER MAIN WITHIN THE LIMITS AS SHOWN WITH THE CITY OF ANN ARBOR STANDARD SPECIFICATIONS, PAID FOR AS "WATER MAIN PIPE, 6 IN. DIA., ABANDON."



CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

2025 MISCELLANEOUS UTILITY PROJECTS

WATER MAIN - WELDON BLVD

STA. 0+00 - STA. 4+50, HYD H-1

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	BID SET	12/12/24	AZD	TA

SHEET No. **31 OF 52**

DRAWING No. **2024006-31**

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

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		TA
		ADZ
		DRAWN
		CHECKED

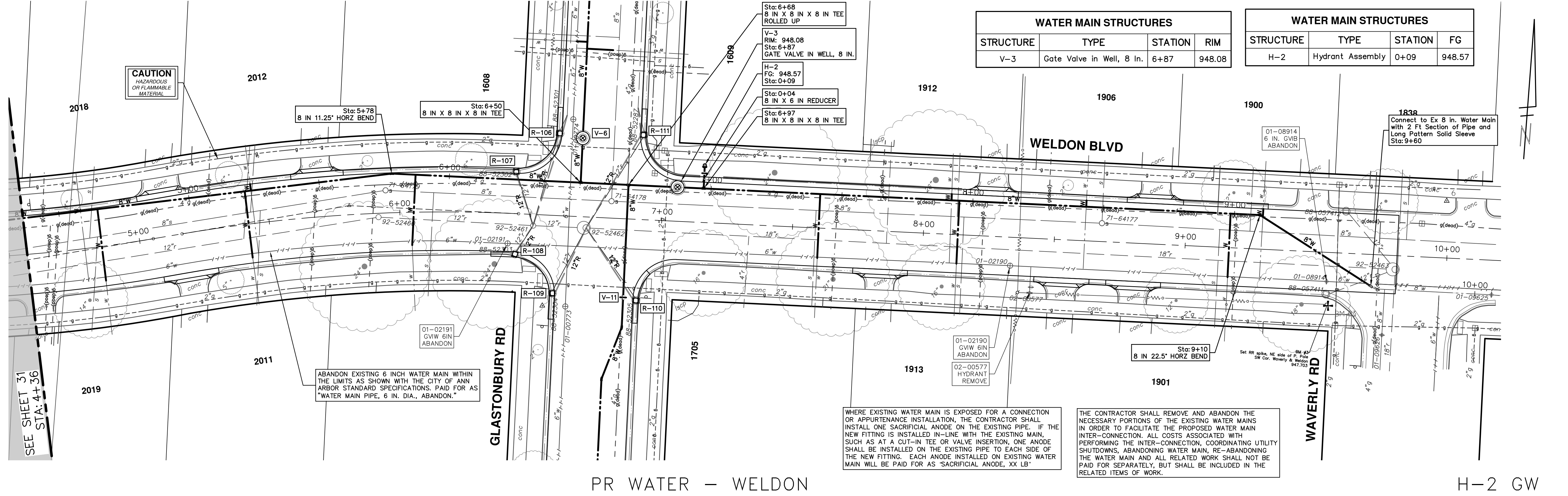
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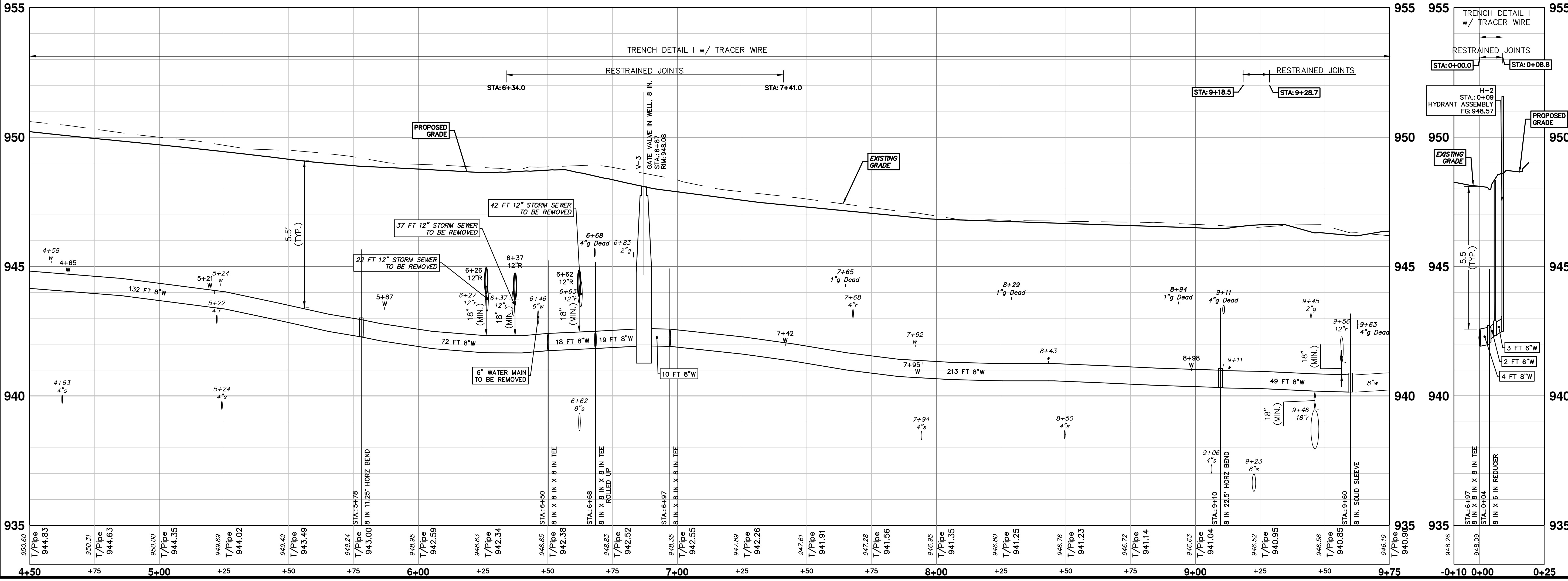
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
2025 MISCELLANEOUS UTILITY PROJECTS
WATER MAIN - WELDON BLVD
STA. 4+50 - STA. 9+66, HYD H-2

STRUCTURE	TYPE	STATION	RIM
V-3	Gate Valve in Well, 8 in.	6+87	948.08

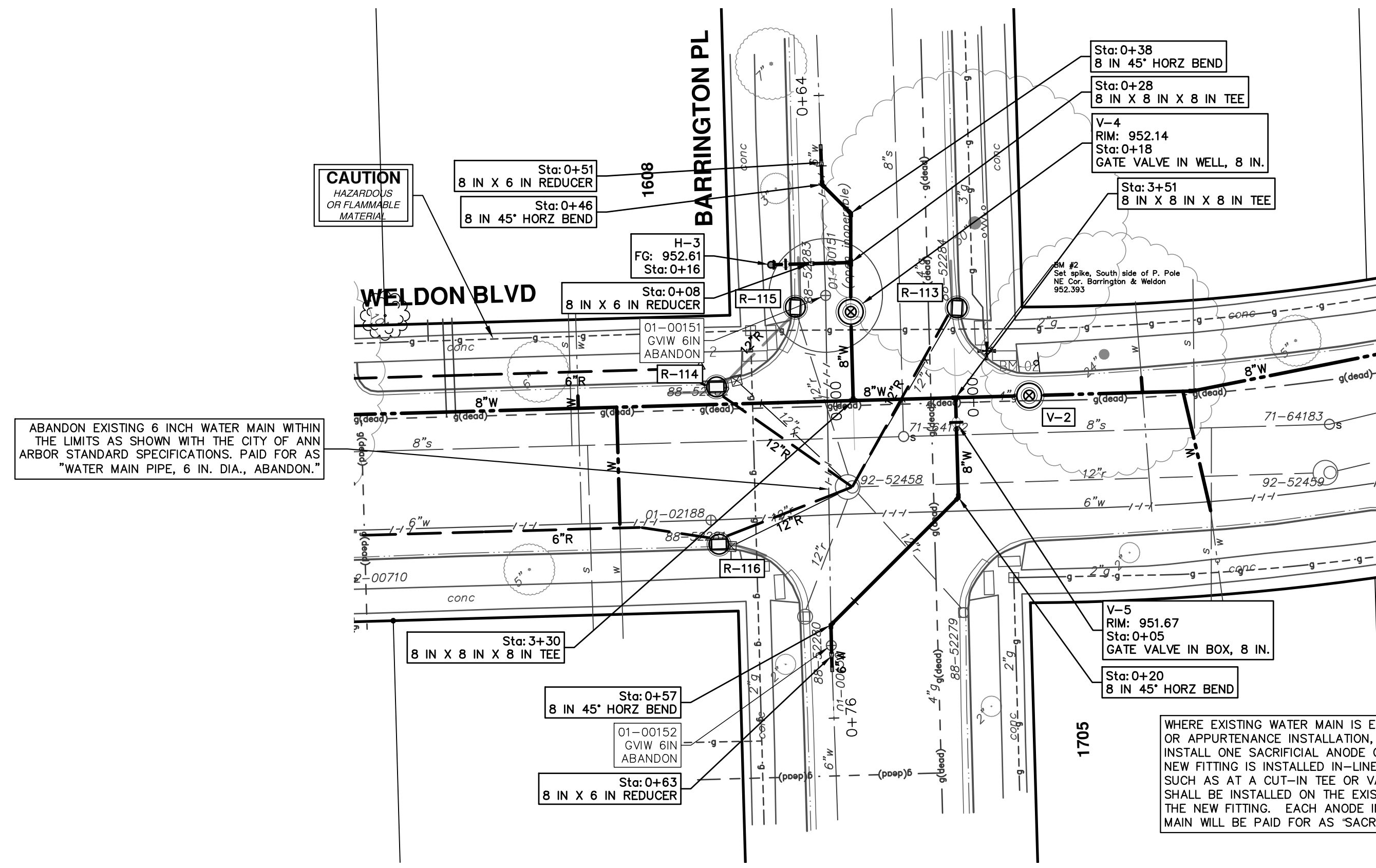
STRUCTURE	TYPE	STATION	FG
H-2	Hydrant Assembly	0+09	948.57



PR WATER - WELDON



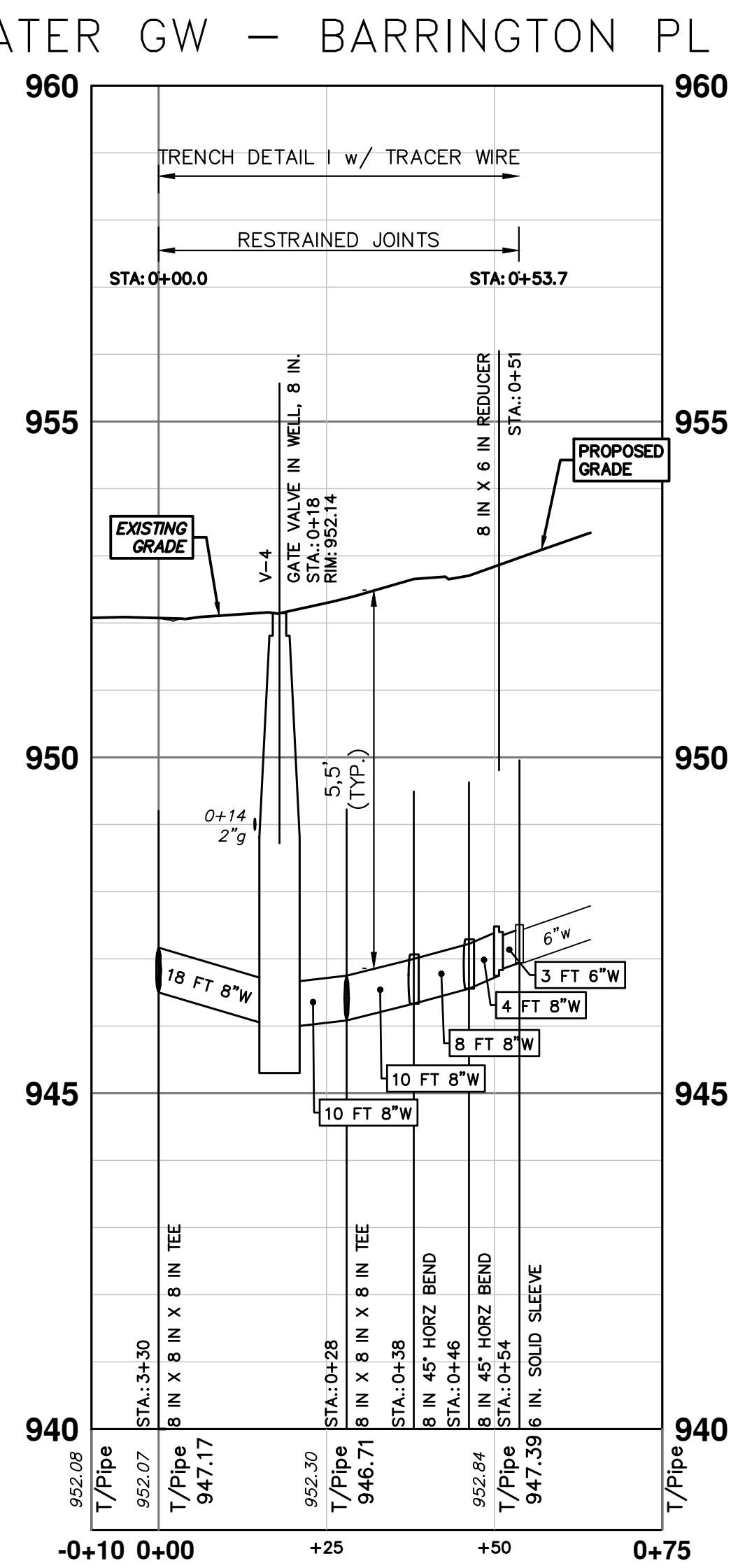
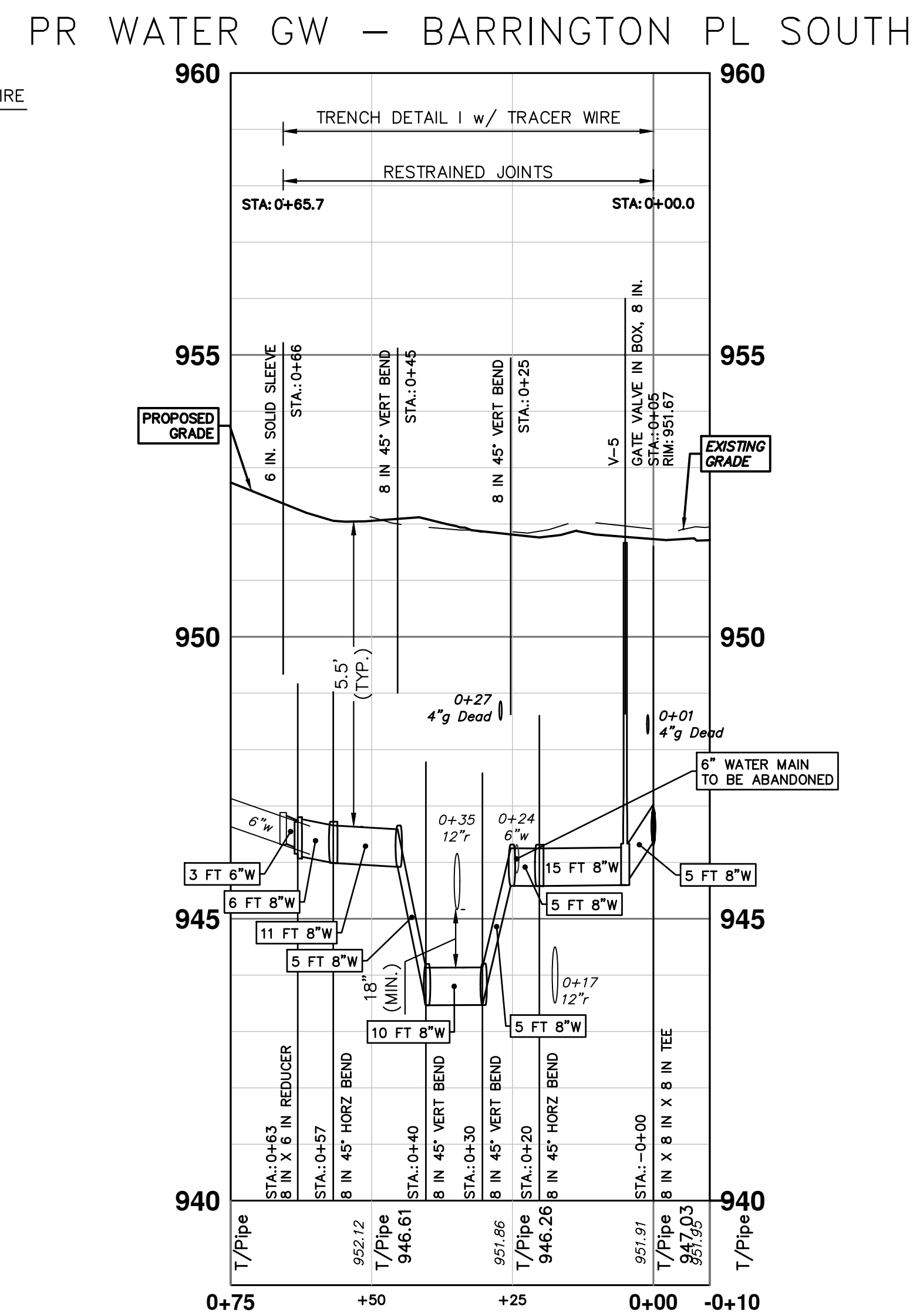
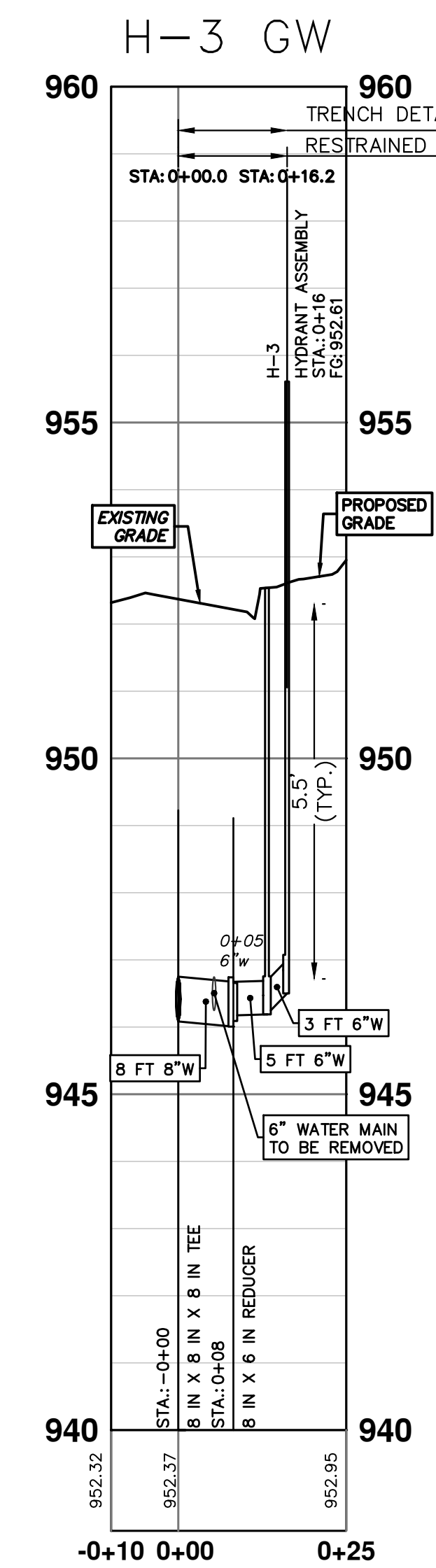
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WATER MAIN STRUCTURES			
STRUCTURE	TYPE	STATION	RIM
V-4	Gate Valve in Well, 8 In.	0+18	952.14

WATER MAIN STRUCTURES			
STRUCTURE	TYPE	STATION	FG
H-3	Hydrant Assembly	0+16	952.61

WATER MAIN STRUCTURES			
STRUCTURE	TYPE	STATION	RIM
V-5	Gate Valve in Box, 8 In.	0+05	951.67



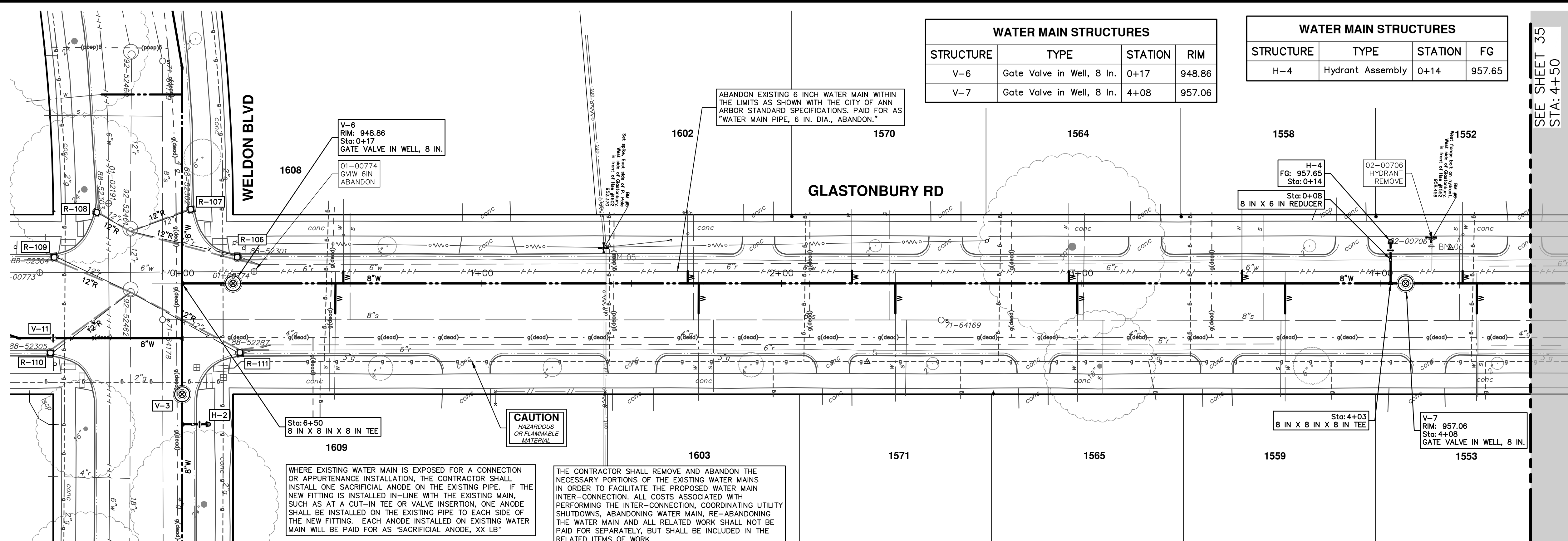
REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	BID SET	12/12/24	AZD	TA

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2025 MISCELLANEOUS UTILITY PROJECTS
WATER MAIN - BARRINGTON PL
STA. 0+00 - STA. 0+85(S), STA. 0+00 - STA. 0+54(N), HYD H-3

SCALE PLAN: 1" = 20'
PROFILE: 1" = 2'
DRAWING NO. 2024006-33
SHEET No. 33 OF 52

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WATER MAIN STRUCTURES			
STRUCTURE	TYPE	STATION	RIM
V-6	Gate Valve in Well, 8 In.	0+17	948.86
V-7	Gate Valve in Well, 8 In.	4+08	957.06

WATER MAIN STRUCTURES			
STRUCTURE	TYPE	STATION	FG
H-4	Hydrant Assembly	0+14	957.65

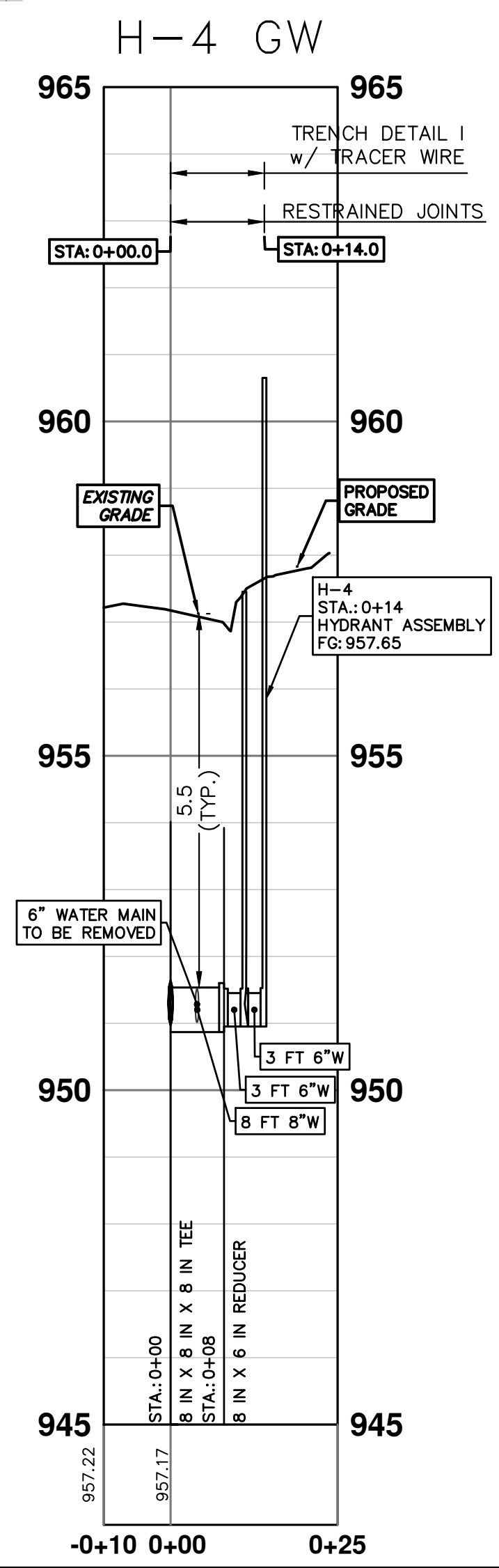
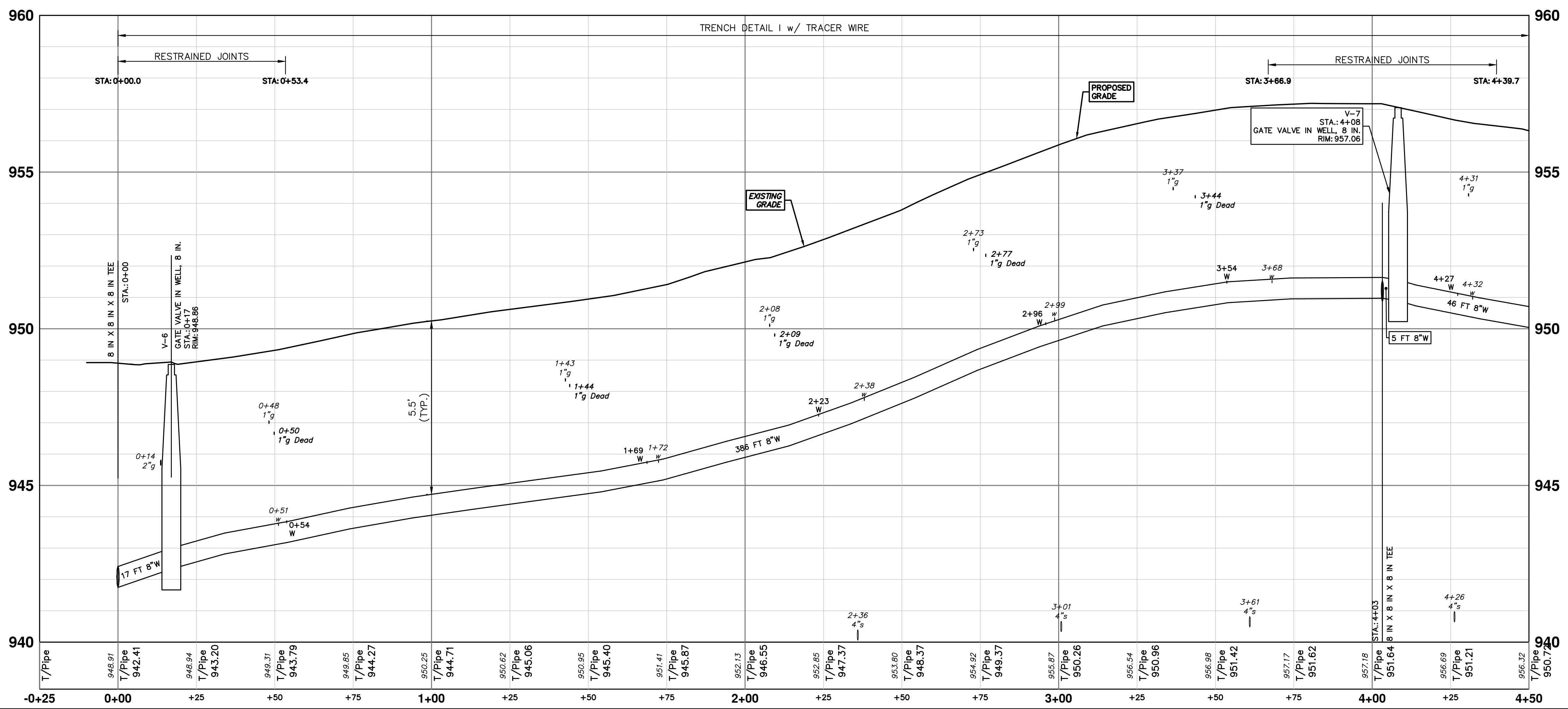
SEE SHEET 35
STA: 4+50



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"

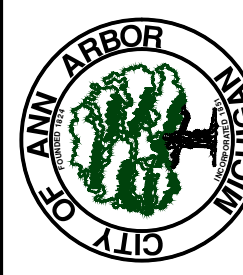
THE CONTRACTOR SHALL REMOVE AND ABANDON THE NECESSARY PORTIONS OF THE EXISTING WATER MAINS IN ORDER TO FACILITATE THE PROPOSED WATER MAIN INTER-CONNECTION. ALL COSTS ASSOCIATED WITH PERFORMING THE INTER-CONNECTION, COORDINATING UTILITY SHUTDOWNS, ABANDONING WATER MAIN, RE-ABANDONING THE WATER MAIN AND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

PR WATER - GW - GLASTONBURY NORTH



REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	BID SET	12/12/24	AZD	TA

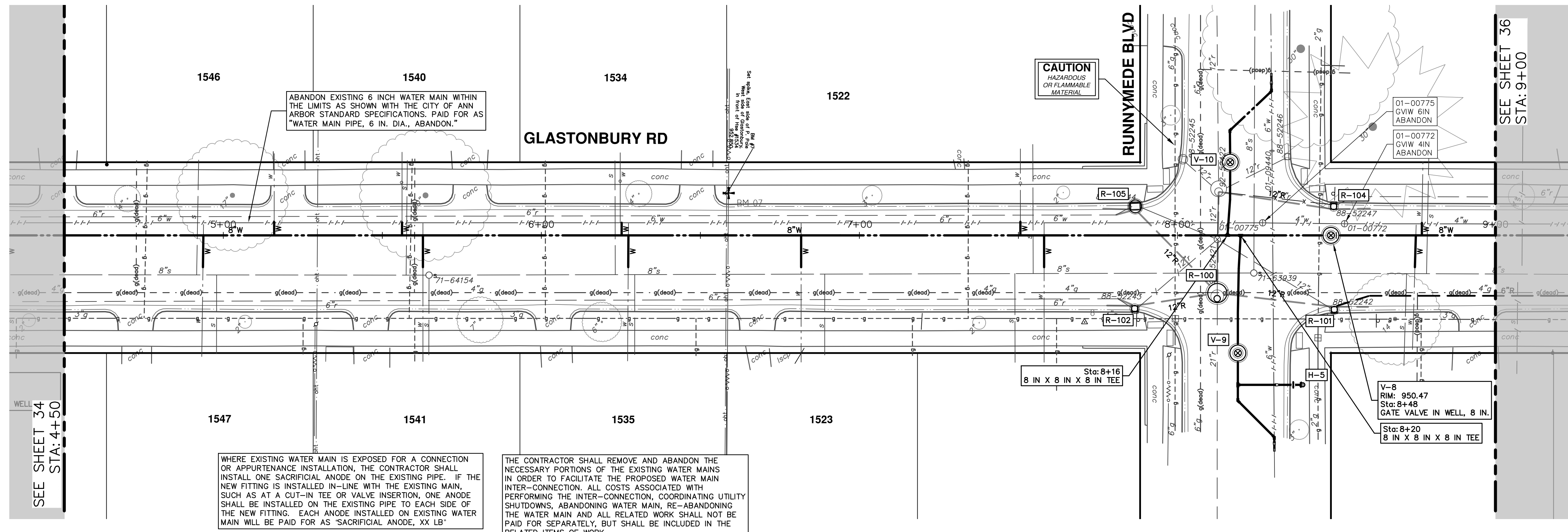
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2025 MISCELLANEOUS UTILITY PROJECTS
WATER MAIN - GLASTONBURY (NORTH)

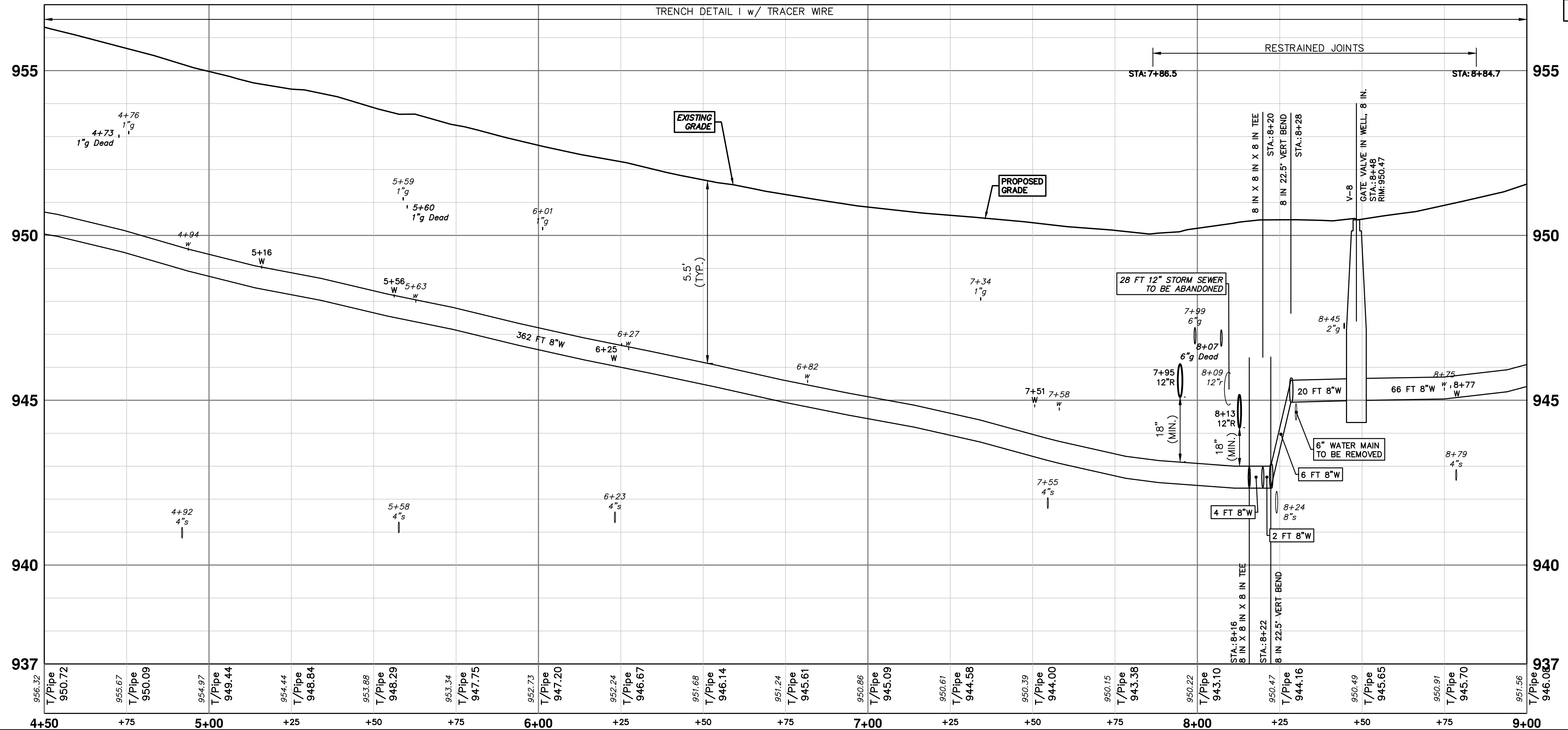
SCALE PLAN: 1" = 20'
PROFILE: 1" = 2'
DRAWING NO: 2024006-34
SHEET NO: 34 OF 52
STA: 0+00 - STA: 4+50, HYD H-4

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PR WATER - GW - GLASTONBURY NORTH

WATER MAIN STRUCTURES			
STRUCTURE	TYPE	STATION	RIM
V-8	Gate Valve in Well, 8 in.	8+48	950.47



811
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12/12/24
DATE
AZD
DRAWN
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01
REV.
BID SET

DESCRIPTION

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2025 MISCELLANEOUS UTILITY PROJECTS
WATER MAIN - GLASTONBURY (NORTH)

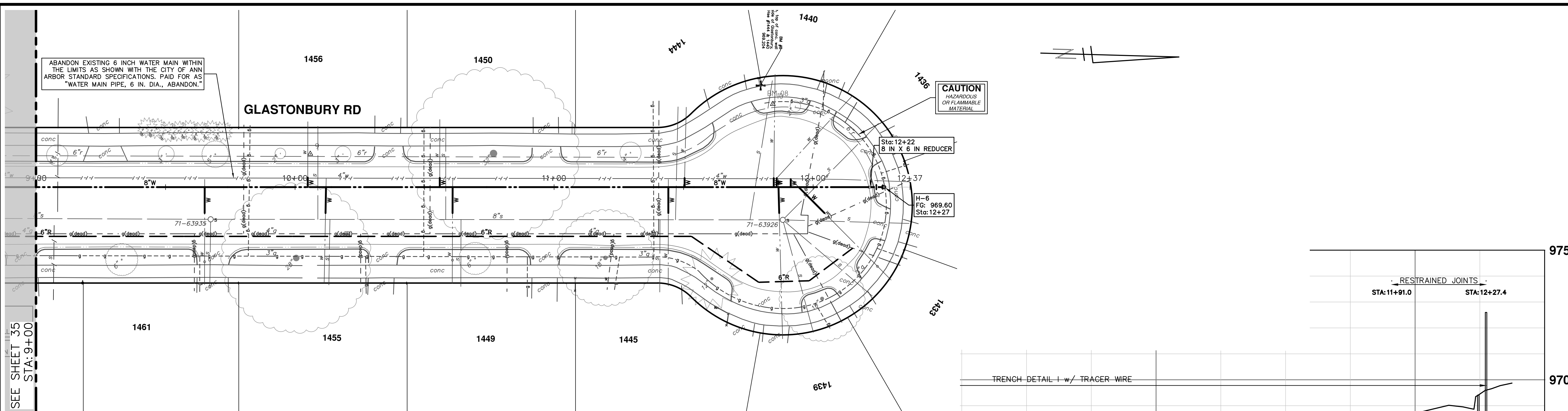
SCALE PLAN: 1" = 20'
PROFILE: 1" = 2'

DRAWING No. 2024006-35

SHEET No. 35 OF 52

937
940
945
950
955

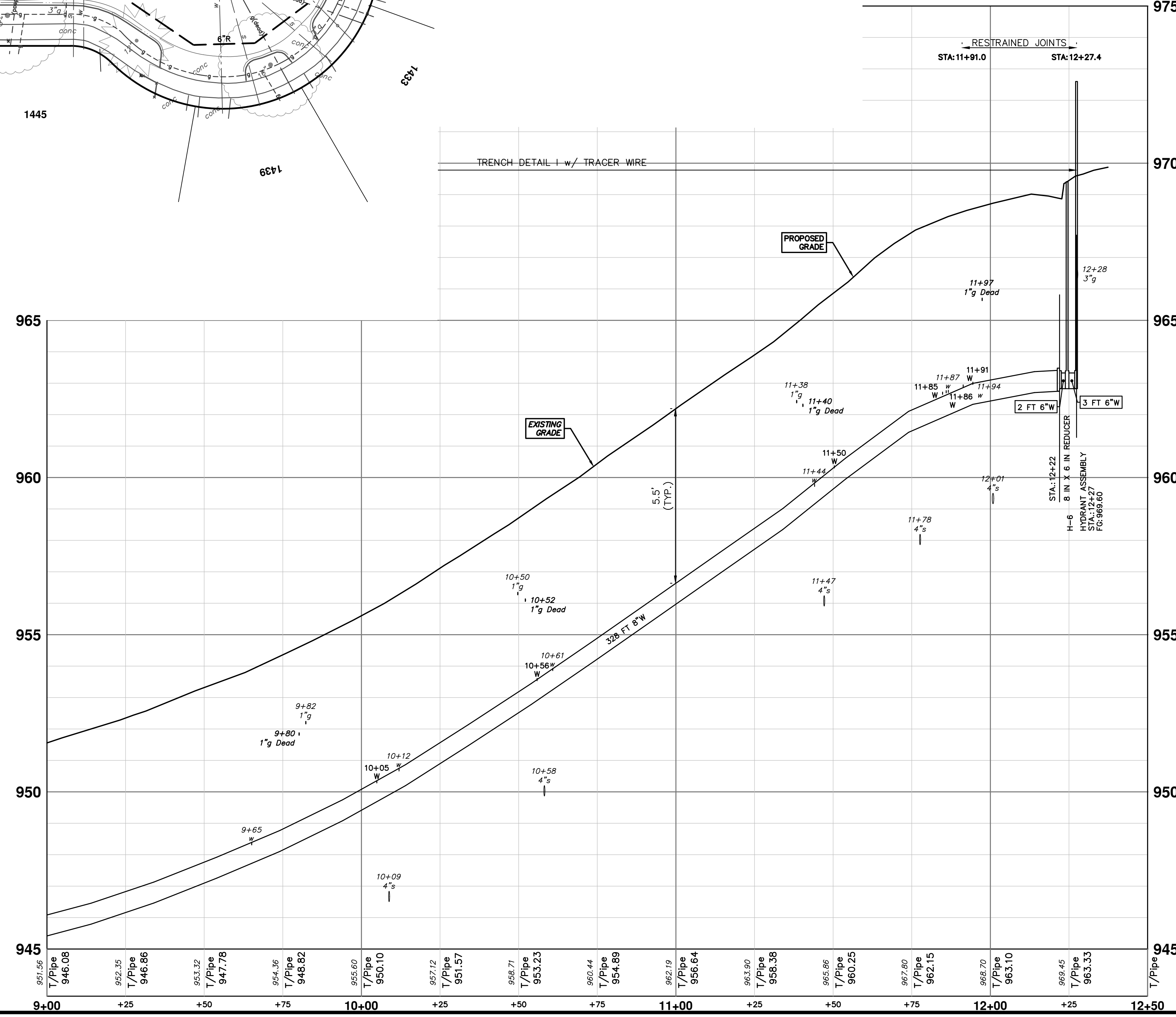
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WHERE EXISTING WATER MAIN IS EXPOSED FOR A CONNECTION OR APPURTENANCE INSTALLATION, THE CONTRACTOR SHALL INSTALL ONE SACRIFICIAL ANODE ON THE EXISTING PIPE. IF THE NEW FITTING IS INSTALLED IN-LINE WITH THE EXISTING MAIN, SUCH AS AT A CUT-IN TEE OR 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"

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.

WATER MAIN STRUCTURES			
STRUCTURE	TYPE	STATION	FG
H-6	Hydrant Assembly	12+27	969.60



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

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	BID SET	12/12/24	AZD	TA

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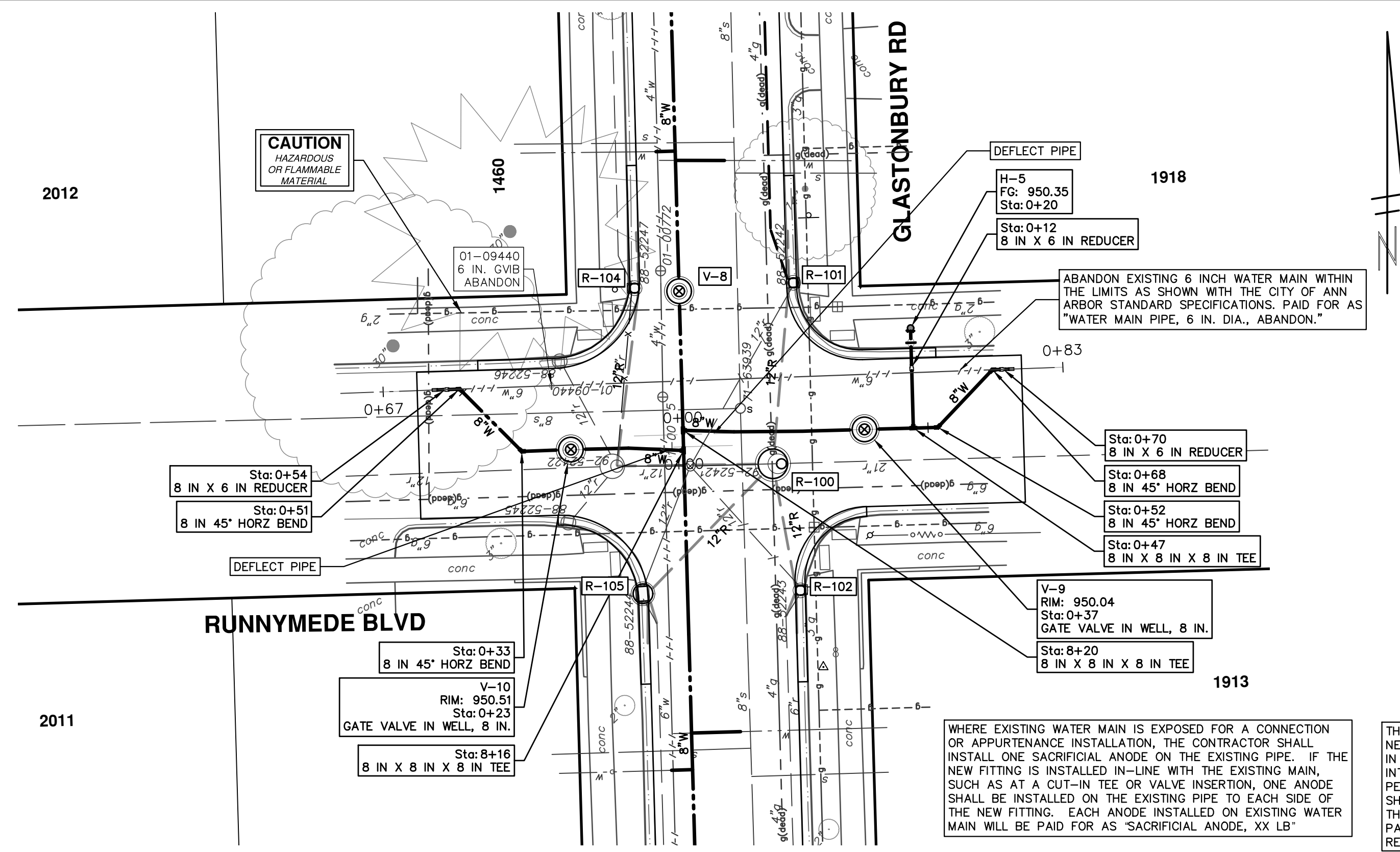
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
2025 MISCELLANEOUS UTILITY PROJECTS
WATER MAIN - GLASTONBURY (NORTH)

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

DRAWING NO. 2024006-36

SHEET No. 36 OF 52

STA. 9+00 - STA. 12+27, HYD H-6



WATER MAIN STRUCTURES			
STRUCTURE	TYPE	STATION	RIM
V-9	Gate Valve in Well, 8 In.	0+37	950.04

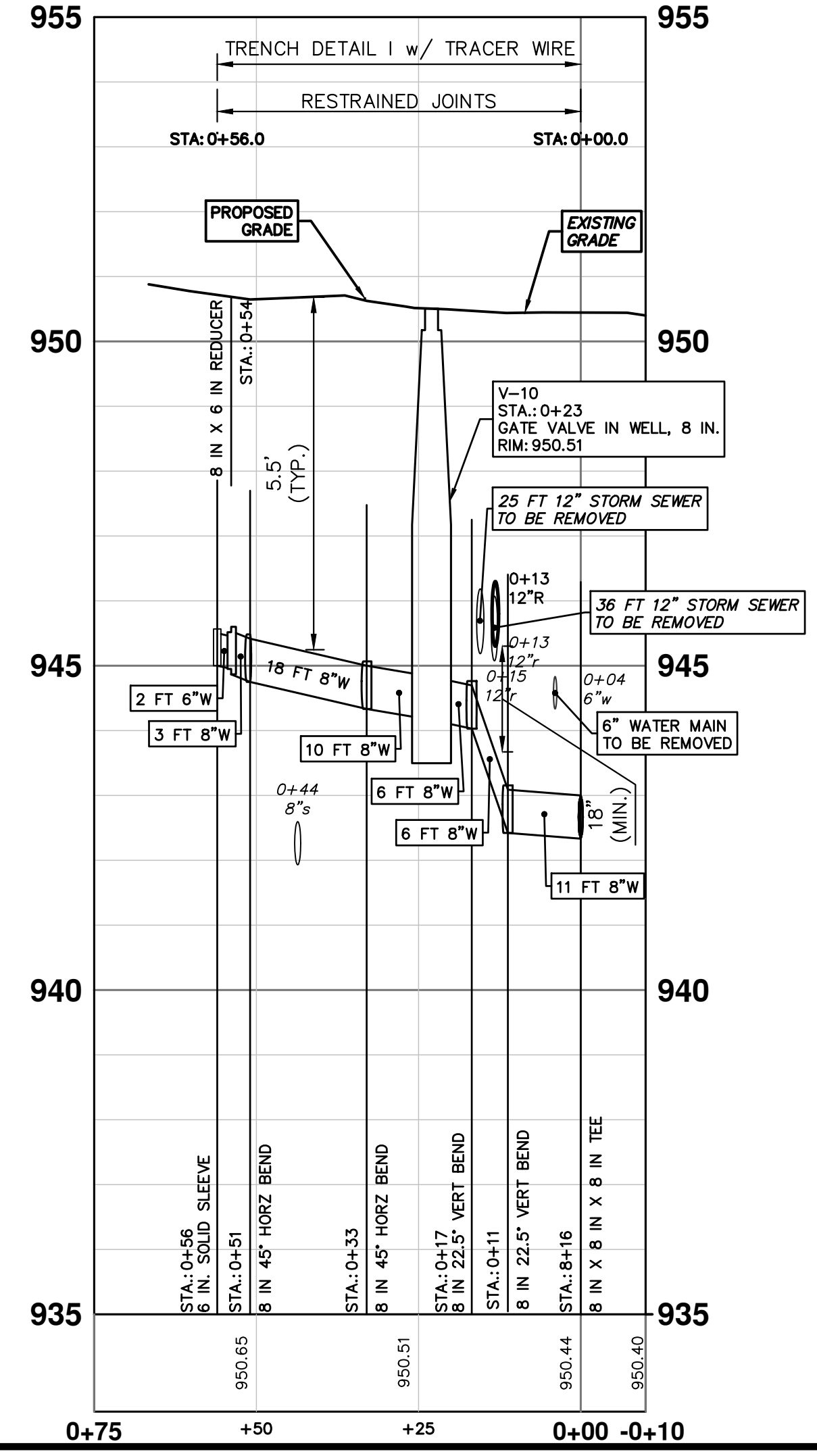
WATER MAIN STRUCTURES			
STRUCTURE	TYPE	STATION	FG
H-5	Hydrant Assembly	0+20	950.35

WATER MAIN STRUCTURES			
STRUCTURE	TYPE	STATION	RIM
V-10	Gate Valve in Well, 8 In.	0+23	950.51

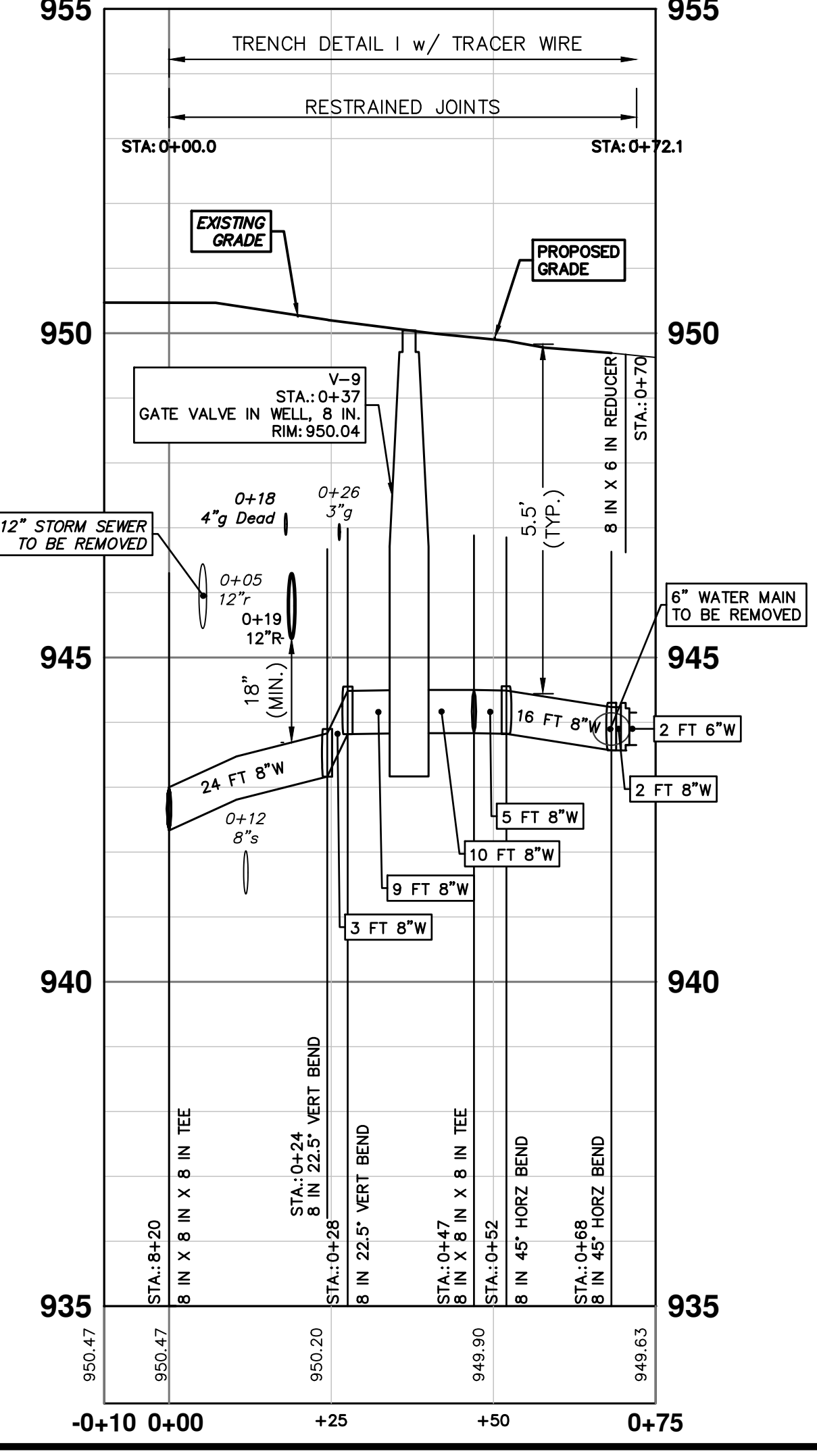
WHERE EXISTING WATER MAIN IS EXPOSED FOR A CONNECTION OR APPURTENANCE INSTALLATION, THE CONTRACTOR SHALL INSTALL ONE SACRIFICIAL ANODE ON THE EXISTING PIPE. IF THE NEW FITTING IS INSTALLED IN-LINE WITH THE EXISTING MAIN, SUCH AS AT A CUT-IN TEE OR VALVE INSERTION, ONE ANODE SHALL BE INSTALLED ON THE 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'

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.

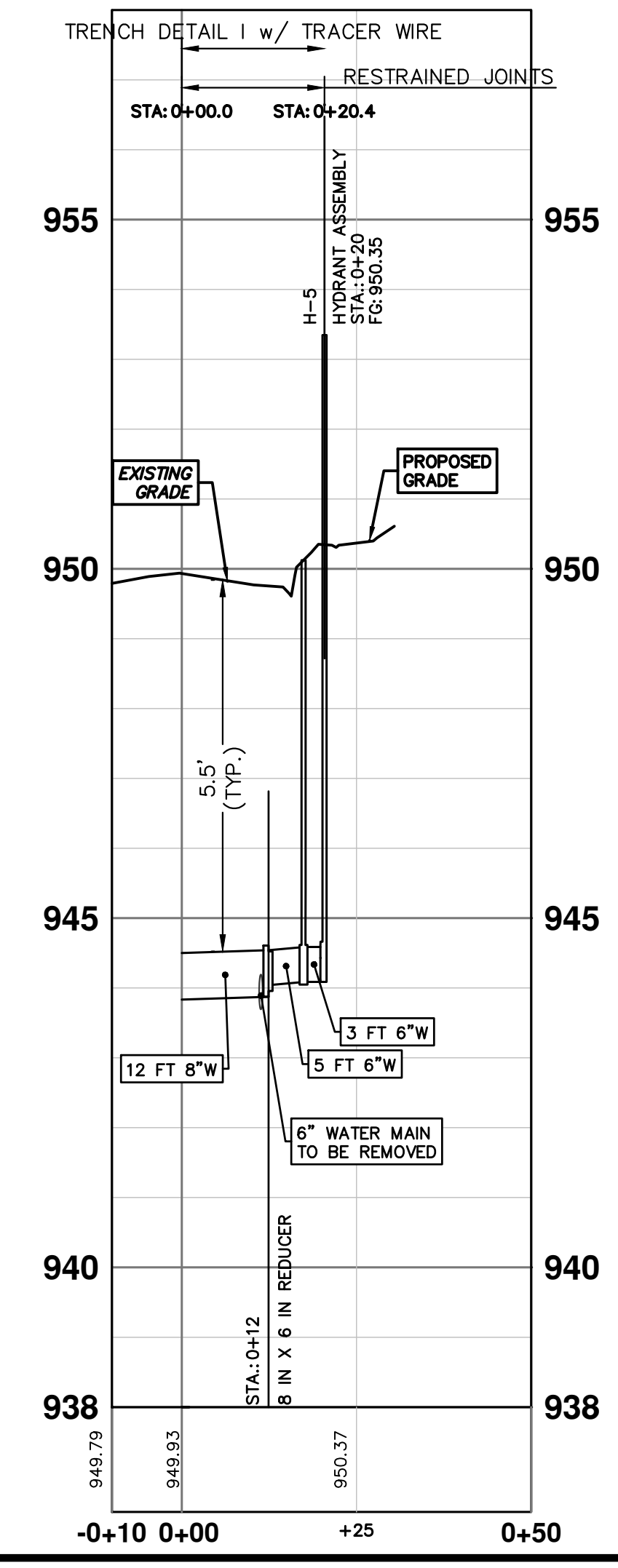
PR WATER GW - RUNNYMEDE WEST




PR WATER GW - RUNNYMEDE EAST




H-5 GW





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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
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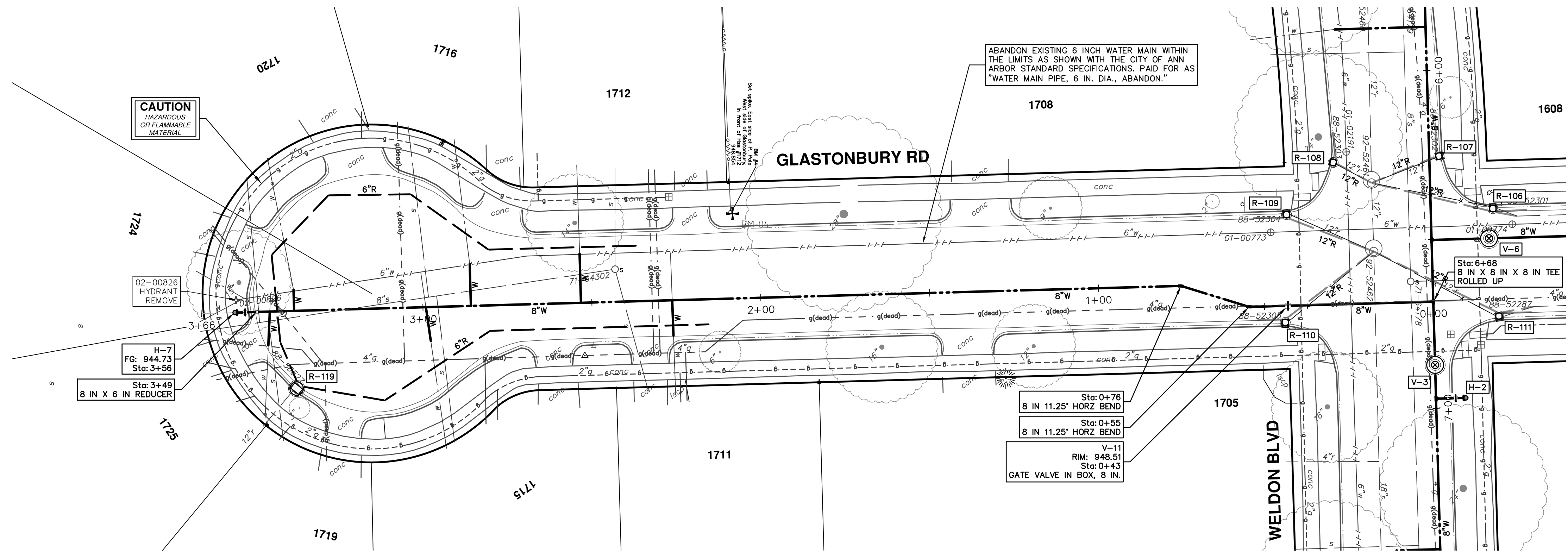
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
2025 MISCELLANEOUS UTILITY PROJECTS
 WATER MAIN - RUNNYMEDE BLVD
 STA. 0+00 - STA. 0+56(W), STA. 0+00 - STA. 0+72(E), HYD H-5

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

DRAWING NO.
2024006-37

SHEET No.
37 OF 52

R:\2024006 Misc Util 2025\Plan Production\2024006Wtr3 GlasWeld.dwg Dwg Created: 22-Nov-24 - _a2 standard bw.stb - Plot Date: 12-Dec-24



CAUTION
HAZARDOUS
OR FLAMMABLE
MATERIAL

02-00826
HYDRANT
REMOVE

H-7
FG: 944.73
Sta: 3+58

Sta: 3+49
8 IN X 6 IN REDUCER

R-119

1724 1725 1719 1711 1708 1705 1608

GLASTONBURY RD

WELDON BLVD

Sta: 0+76
8 IN 11.25" HORIZ BEND

Sta: 0+55
8 IN 11.25" HORIZ BEND

V-11
RIM: 948.51
Sta: 0+43
GATE VALVE IN BOX, 8 IN.

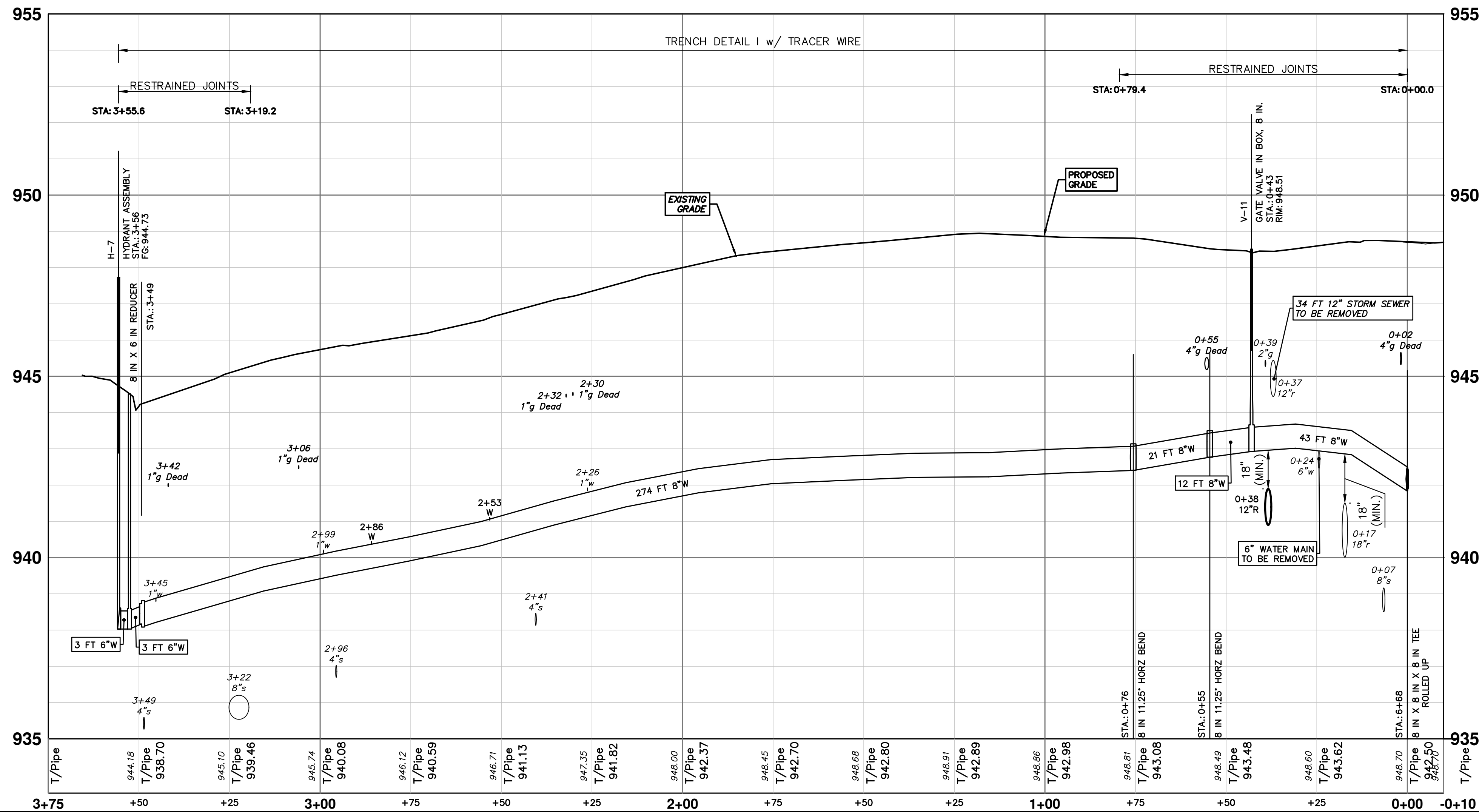
Sta: 6+68
8 IN X 8 IN X 8 IN TEE
ROLLED UP

R-108 R-109 R-106 R-111

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"

PR WATER - GLASTONBURY SOUTH




WATER MAIN STRUCTURES			
STRUCTURE	TYPE	STATION	RIM
V-11	Gate Valve in Box, 8 In.	0+43	948.51

WATER MAIN STRUCTURES			
STRUCTURE	TYPE	STATION	FG
H-7	Hydrant Assembly	3+56	944.73



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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

2025 MISCELLANEOUS UTILITY PROJECTS

WATER MAIN - GLASTONBURY (SOUTH)

STA. 0+00 - STA. 3+56, HYD H-7

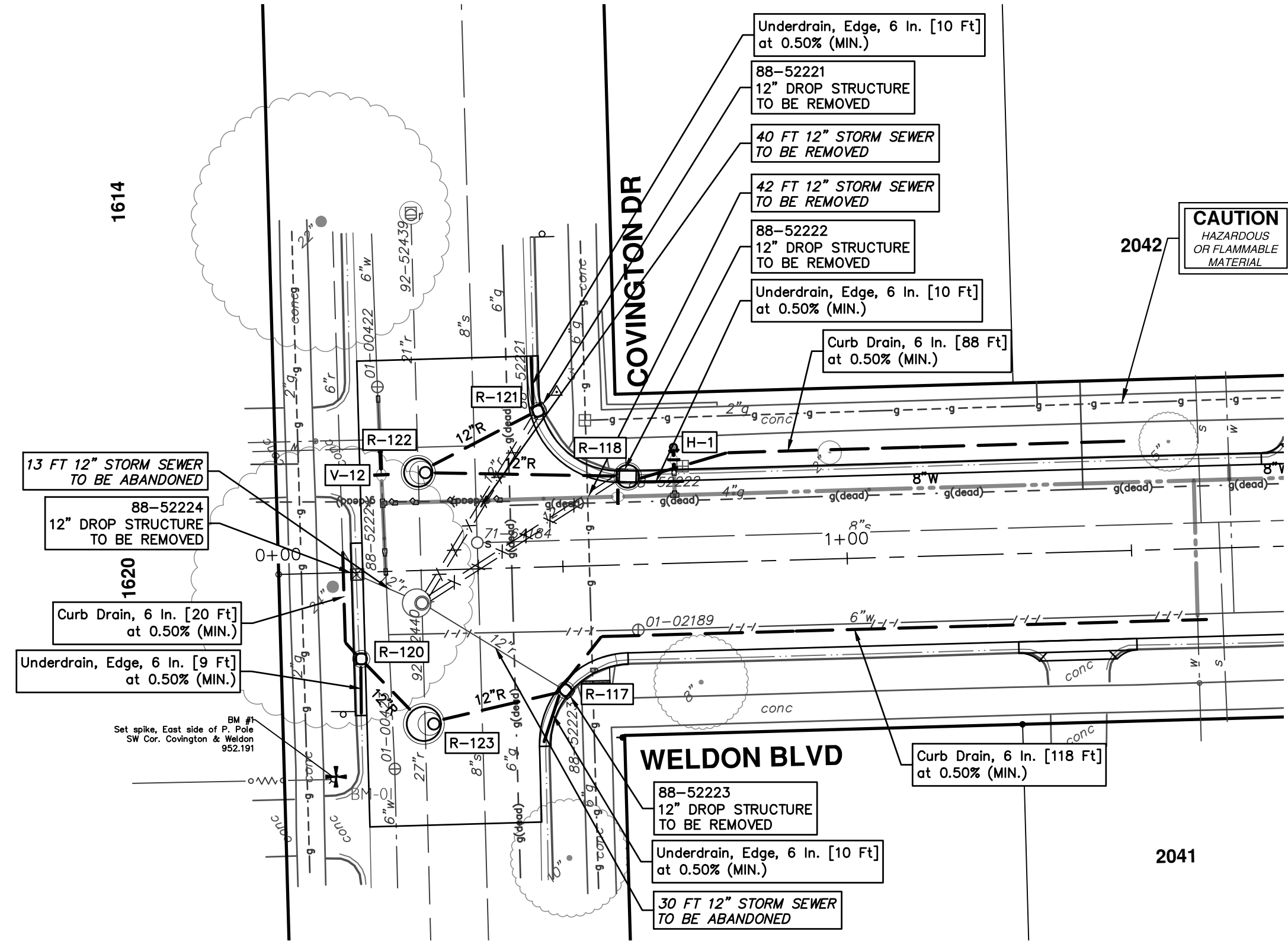
SCALE PLAN: 1" = 20'

PROFILE: 1" = 2'

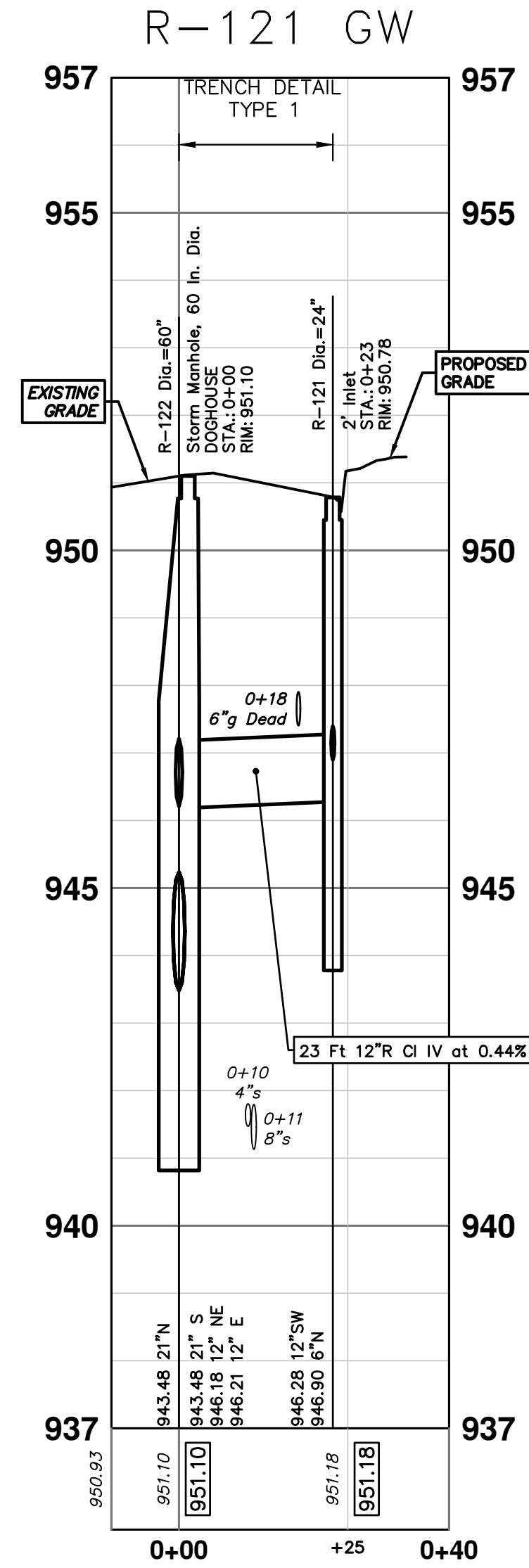
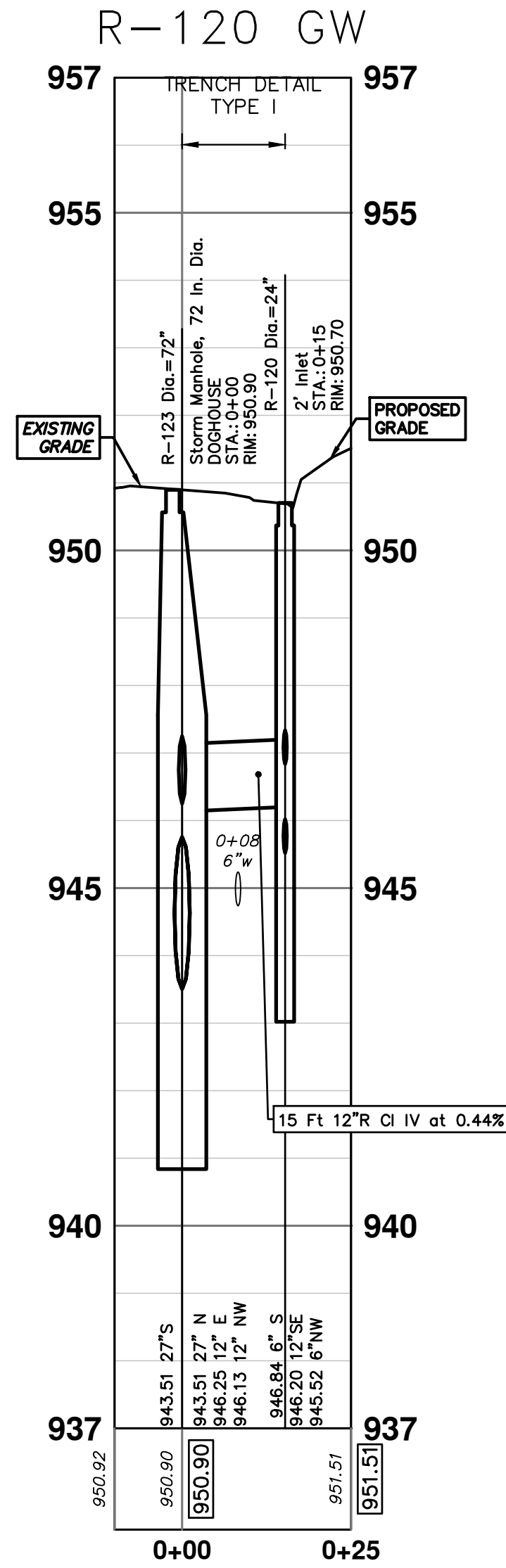
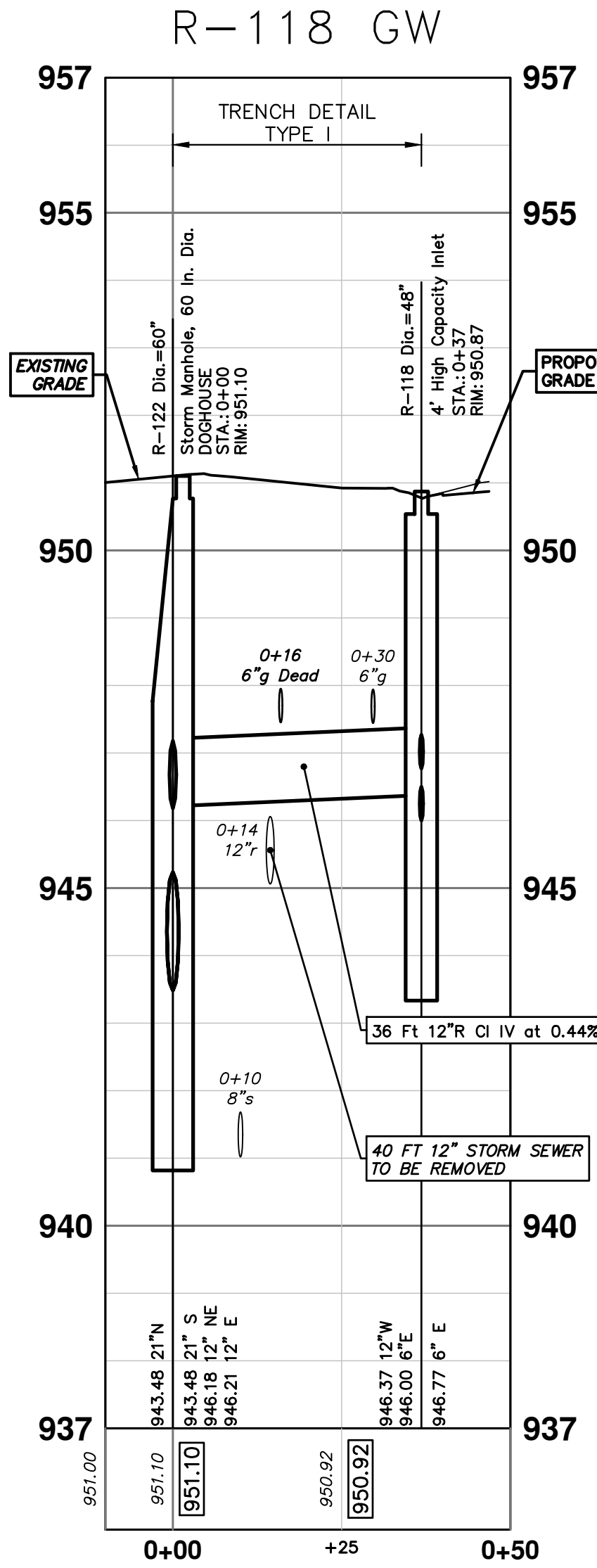
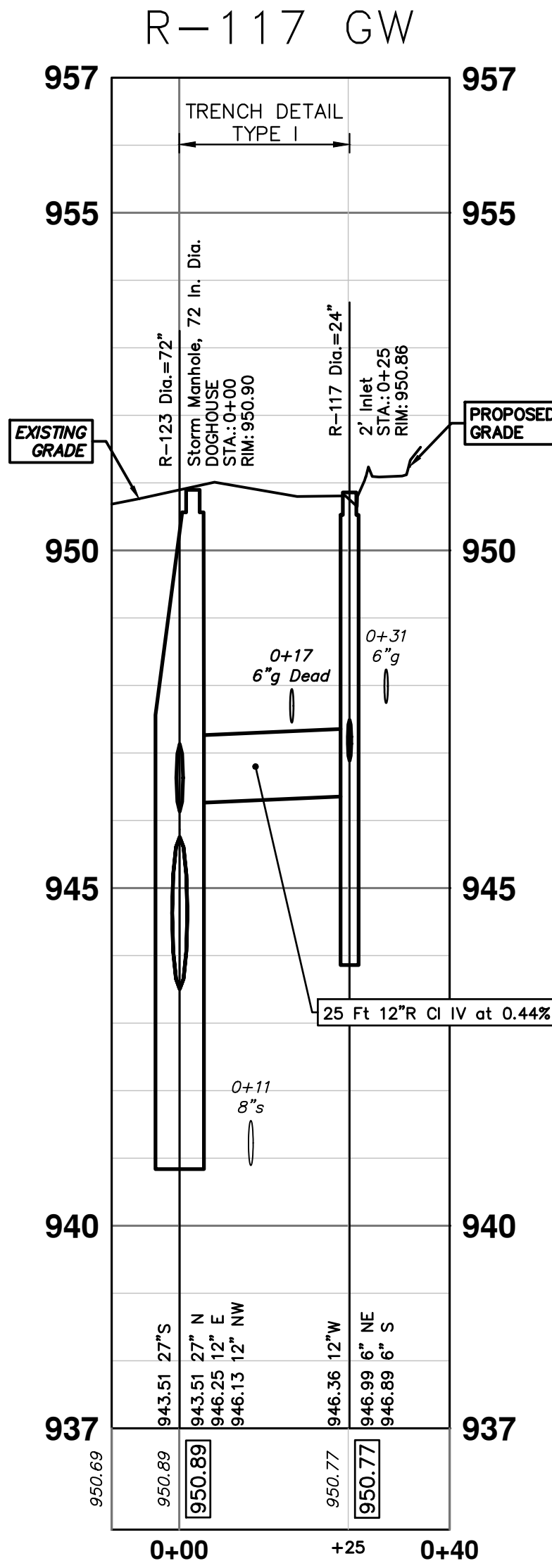
DRAWING No. 2024006-38

SHEET No. 38 OF 52

STRUCTURE	DEPTH (Feet)	REMOVE
88-52223	5.51	12" Drop Structure TO BE REMOVED
88-52221	5.10	12" Drop Structure TO BE REMOVED
88-52222	5.61	12" Drop Structure TO BE REMOVED
88-52224	5.65	12" Drop Structure TO BE REMOVED

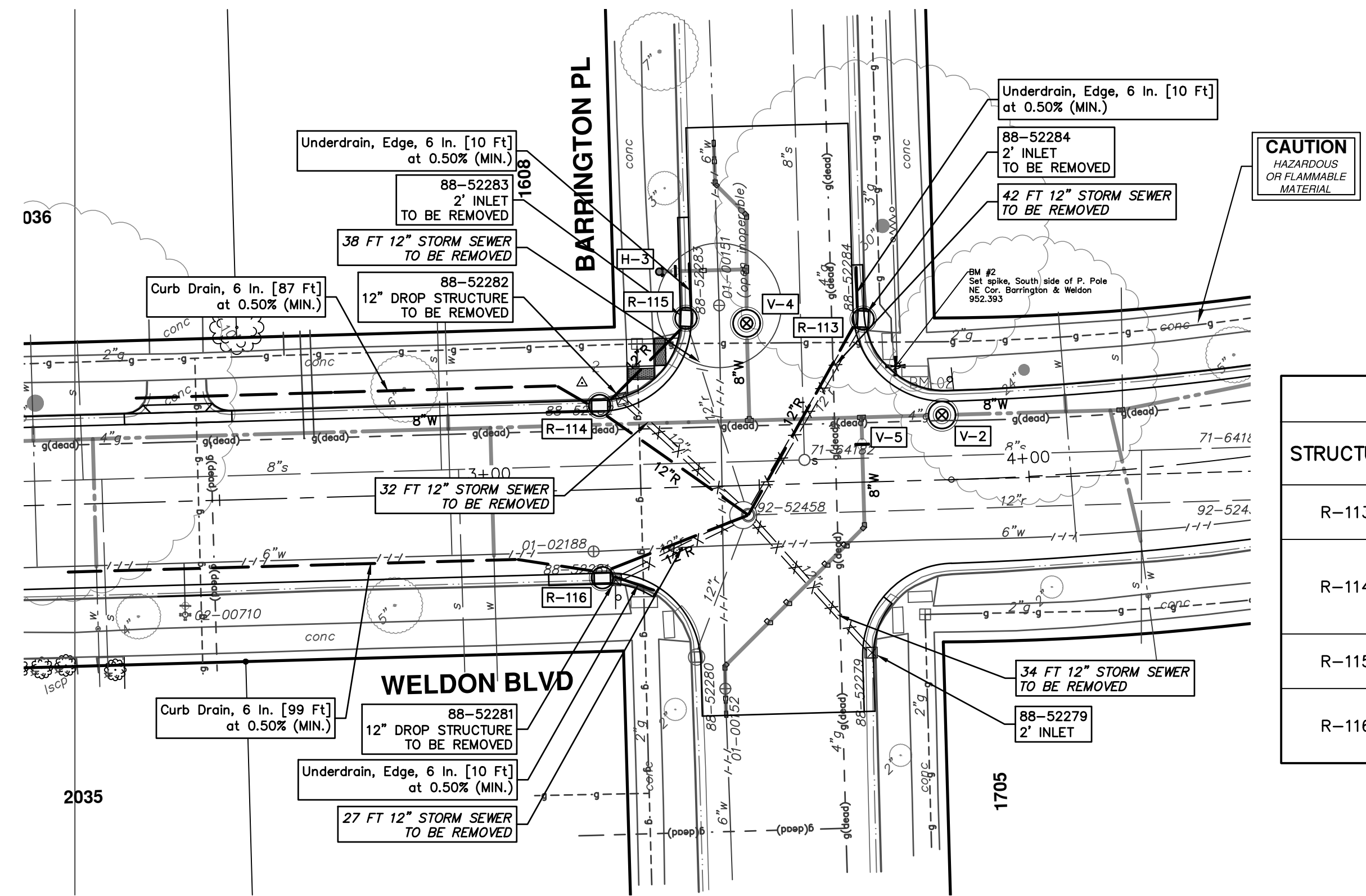


STRUCTURE	UTILITY STATION	TYPE	RIM	INVERTS	DEPTH (Feet)	SUMP
R-117	0+25	2' Inlet	950.86	6" NE 946.99 6" S 946.89 12" W 946.36	6.50	2'
R-118	0+37	4' High Capacity Inlet	950.87	6" E 946.77 12" W 946.37 6" E 946.00	6.87	2'
R-120	0+15	2' Inlet	950.70	6" S 946.84 12" W 946.20 6" NW 945.52	7.18	2'
R-121	0+23	2' Inlet	950.78	12" SW 946.28 6" N 946.90	6.50	2'
R-122	0+00	Storm Manhole, 60 In. Dia. DOGHOUSE	951.10	21" S 943.48 12" SE 946.18 12" E 946.21 21" N 943.48	9.62	2'
R-123	0+00	Storm Manhole, 72 In. Dia. DOGHOUSE	950.90	27" N 943.51 12" NE 946.25 12" NW 946.13 27" S 943.51	9.39	2'



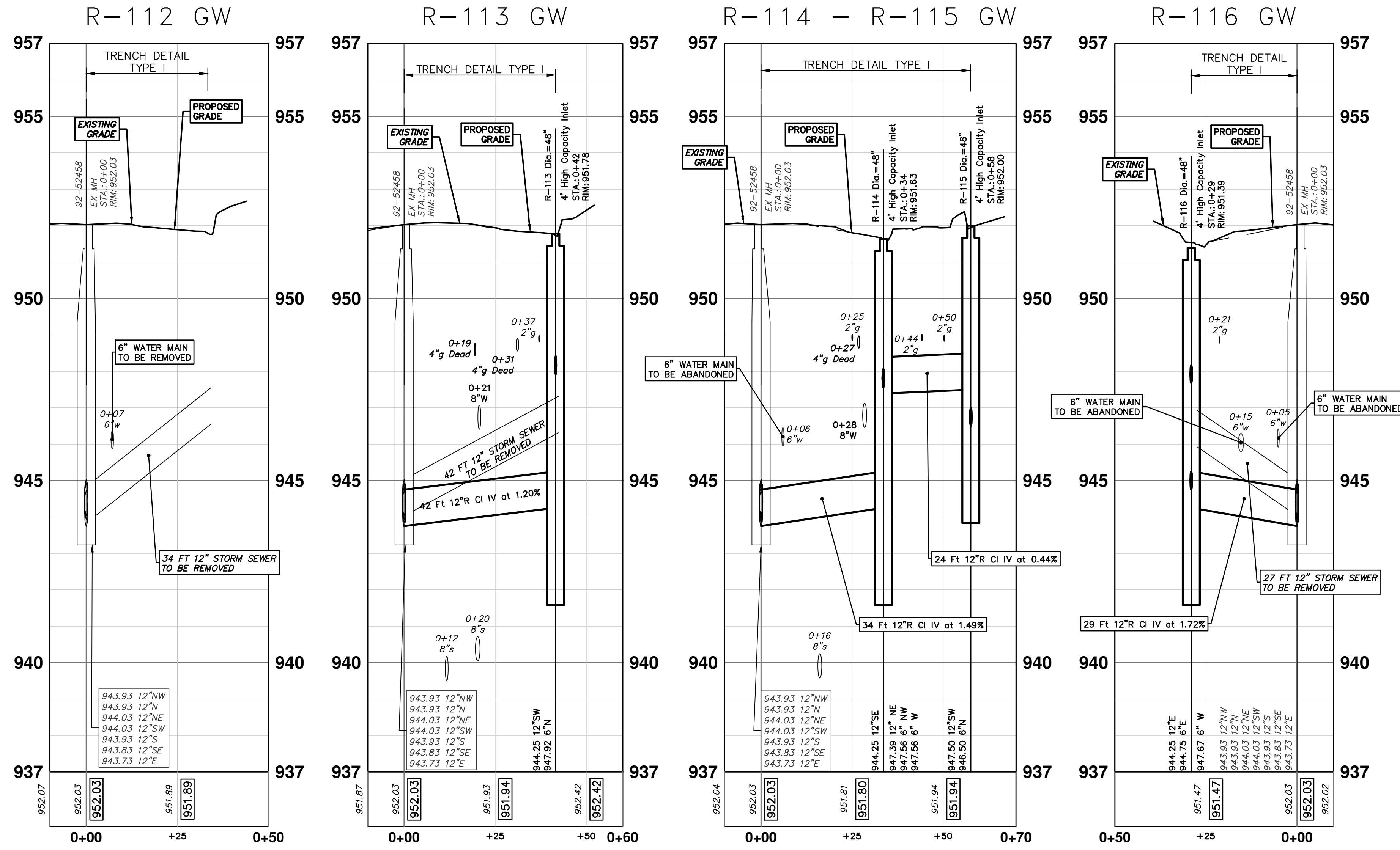
EXISTING STORM SEWER STRUCTURE REMOVAL TABLE

STRUCTURE	DEPTH (Feet)	REMOVE
88-52283	5.91	2' Inlet TO BE REMOVED
88-52281	5.31	12" Drop Structure TO BE REMOVED
88-52282	5.01	12" Drop Structure TO BE REMOVED
88-52284	5.40	2' Inlet TO BE REMOVED
88-52279	5.20	2' Inlet



STORM SEWER STRUCTURE TABLE

STRUCTURE	UTILITY STATION	TYPE	RIM	INVERTS	DEPTH (Feet)	SUMP
R-113	0+42	4' High Capacity Inlet	951.78	12" SW 944.25 6" N 947.92	9.53	2'
R-114	0+34	4' High Capacity Inlet	951.63	12" NE 947.39 6" NW 947.56 6" W 947.56 12" SE 944.25	9.38	2'
R-115	0+58	4' High Capacity Inlet	952.00	12" SW 947.50 6" N 946.50	7.50	2'
R-116	0+29	4' High Capacity Inlet	951.39	6" W 947.67 12" E 944.25 6" E 944.75	9.14	2'



REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	BID SET	12/12/24	AZD	TA

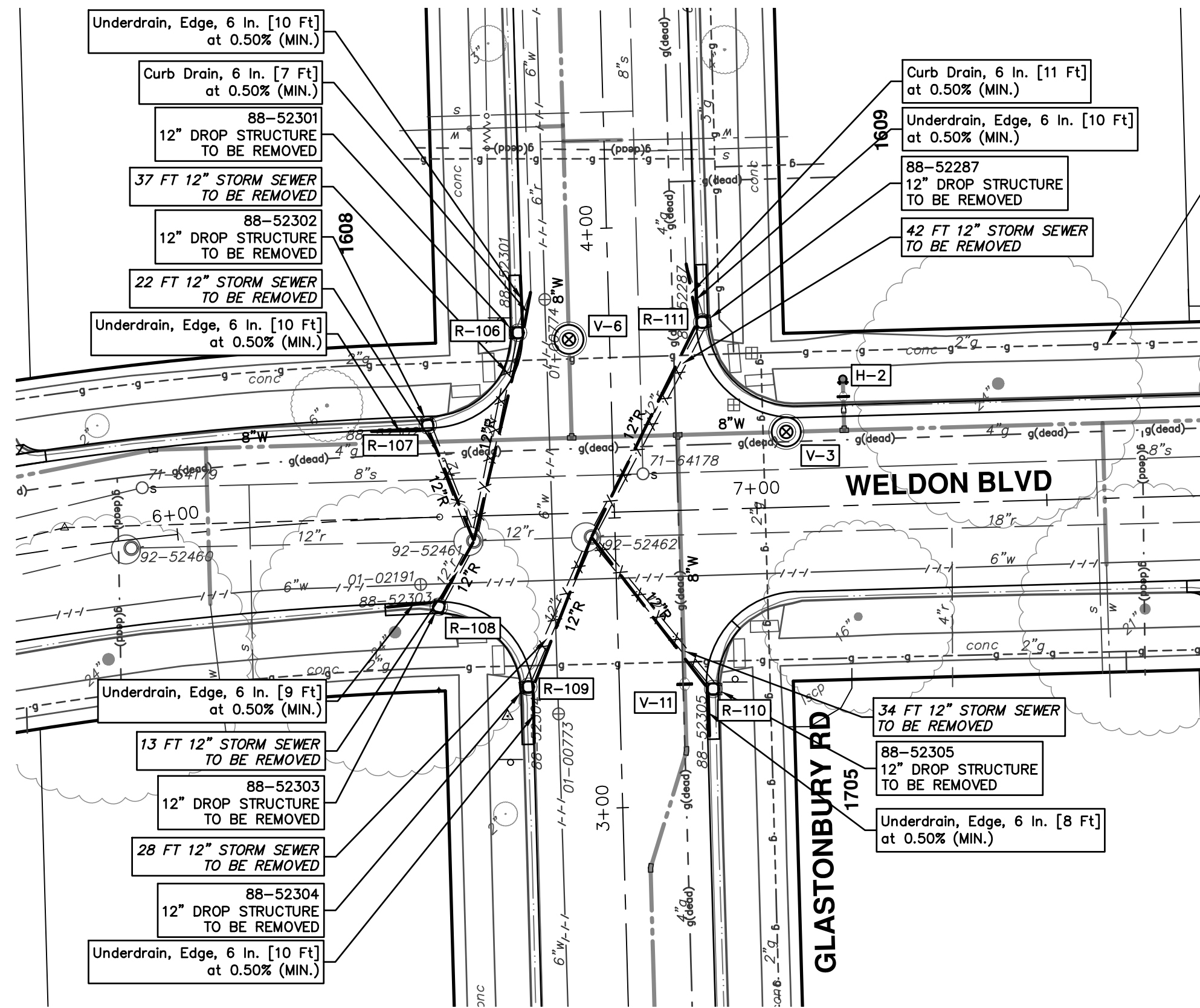
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2025 MISCELLANEOUS UTILITY PROJECTS
STORM SEWER - GLASTONBURY WELDON
R-112 - R-116

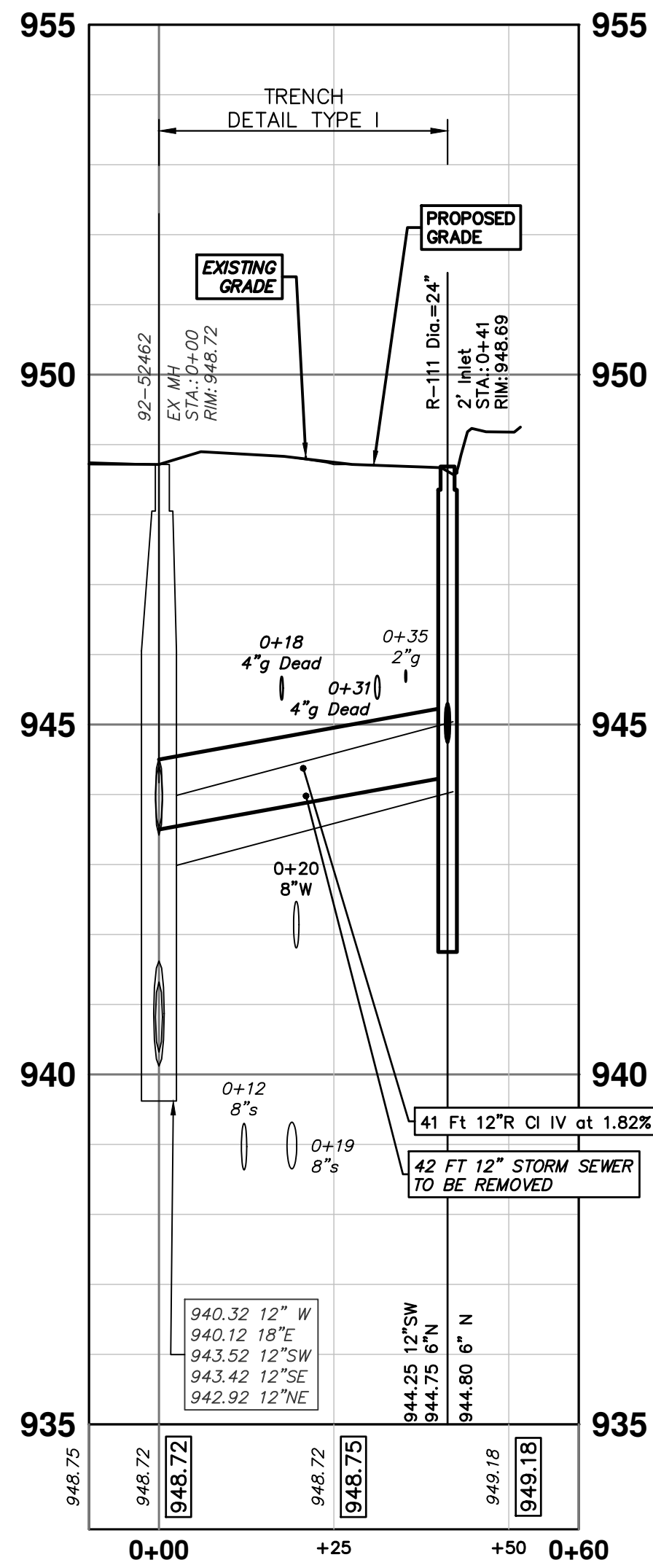
SHEET No. 40 OF 52
SCALE PLAN: 1" = 20'
PROFILE: 1" = 2'
DRAWING No. 2024006-40

EXISTING STORM SEWER STRUCTURE REMOVAL TABLE		
STRUCTURE	DEPTH (Feet)	REMOVE
88-52305	3.32	12" Drop Structure TO BE REMOVED
88-52304	4.30	12" Drop Structure TO BE REMOVED
88-52303	4.51	12" Drop Structure TO BE REMOVED
88-52302	5.00	12" Drop Structure TO BE REMOVED
88-52301	4.90	12" Drop Structure TO BE REMOVED
88-52287	4.55	12" Drop Structure TO BE REMOVED

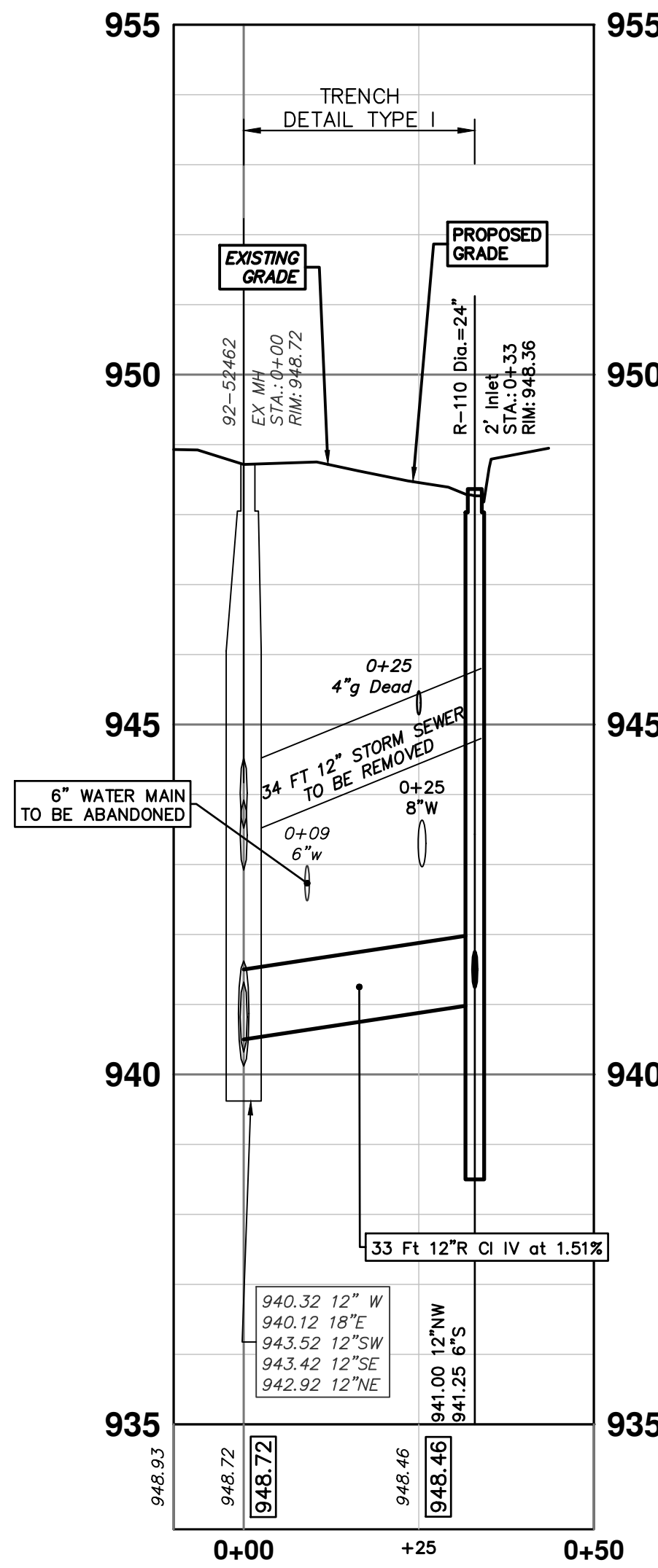


STORM SEWER STRUCTURE TABLE						
STRUCTURE	UTILITY STATION	TYPE	RIM	INVERTS	DEPTH (Feet)	SUMP
R-106	0+37	2' Inlet	948.73	6" N 944.82 12" S 944.00 6" N 944.25	6.73	2'
R-107	0+21	2' Inlet	948.57	12" S 944.00 6" W 944.25	6.57	2'
R-108	0+12	2' Inlet	948.57	12" NE 944.00 6" W 944.25	6.57	2'
R-109	0+28	2' Inlet	948.36	12" N 944.00 6" S 944.25	6.36	2'
R-110	0+33	2' Inlet	948.36	12" NW 941.00 6" S 941.25	9.36	2'
R-111	0+41	2' Inlet	948.69	6" N 944.80 12" SW 944.25 6" N 944.75	6.44	2'

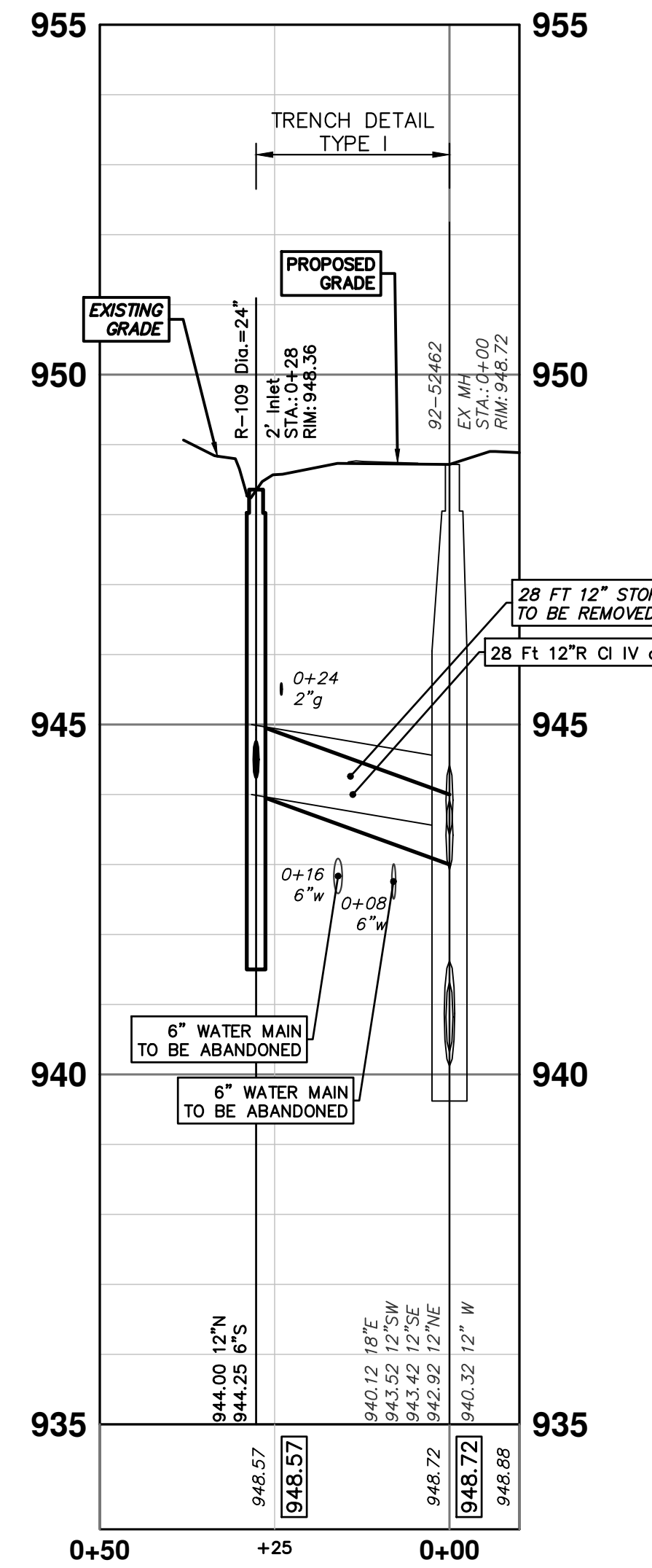
R-111 GW



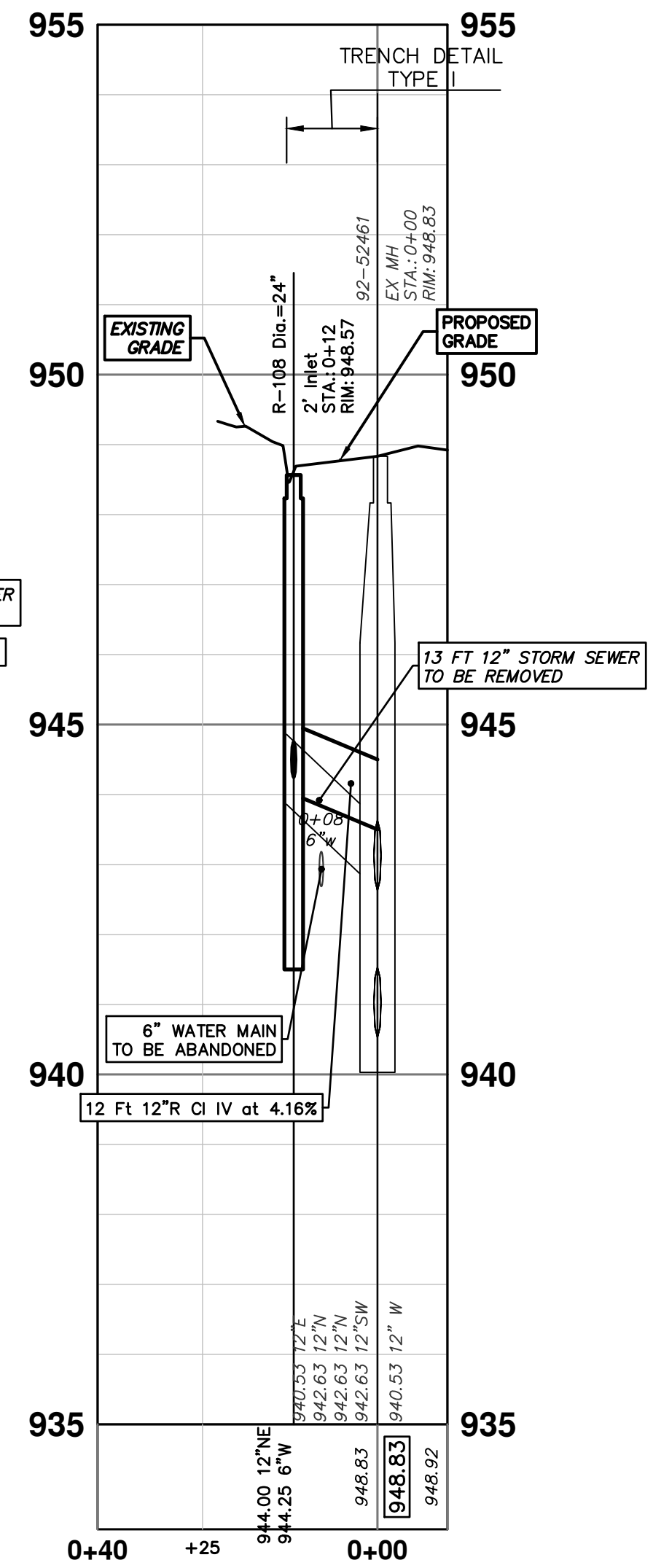
R-110 GW



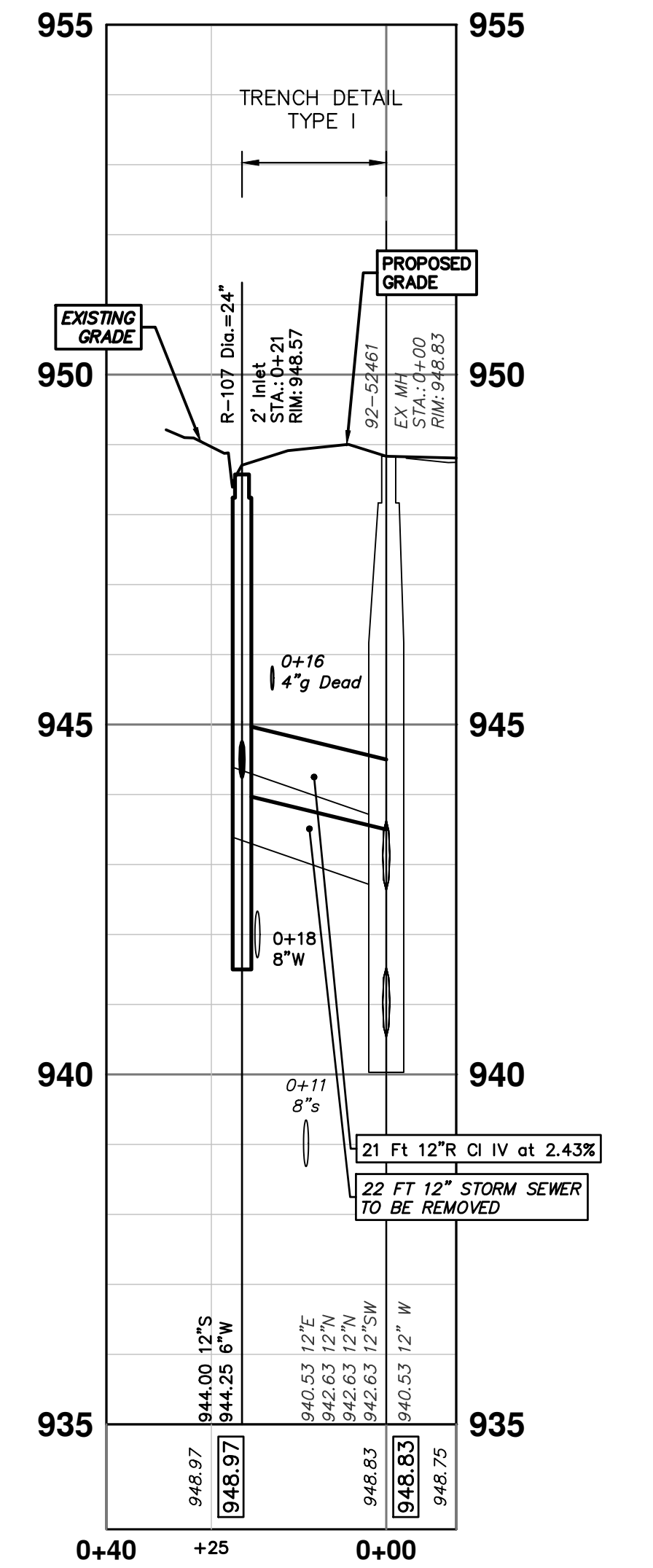
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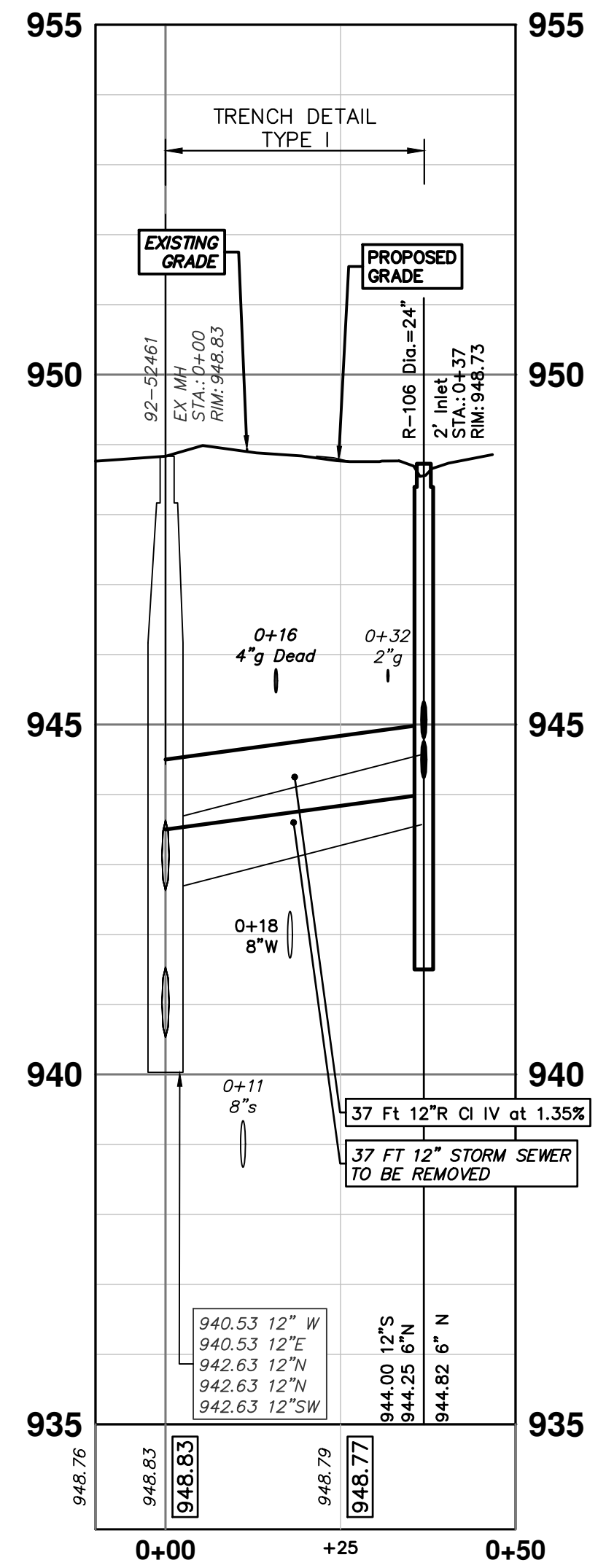
R-108 GW



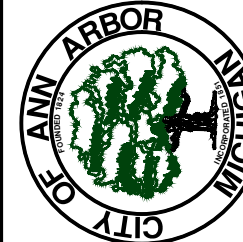
R-107 GW



R-106 GW

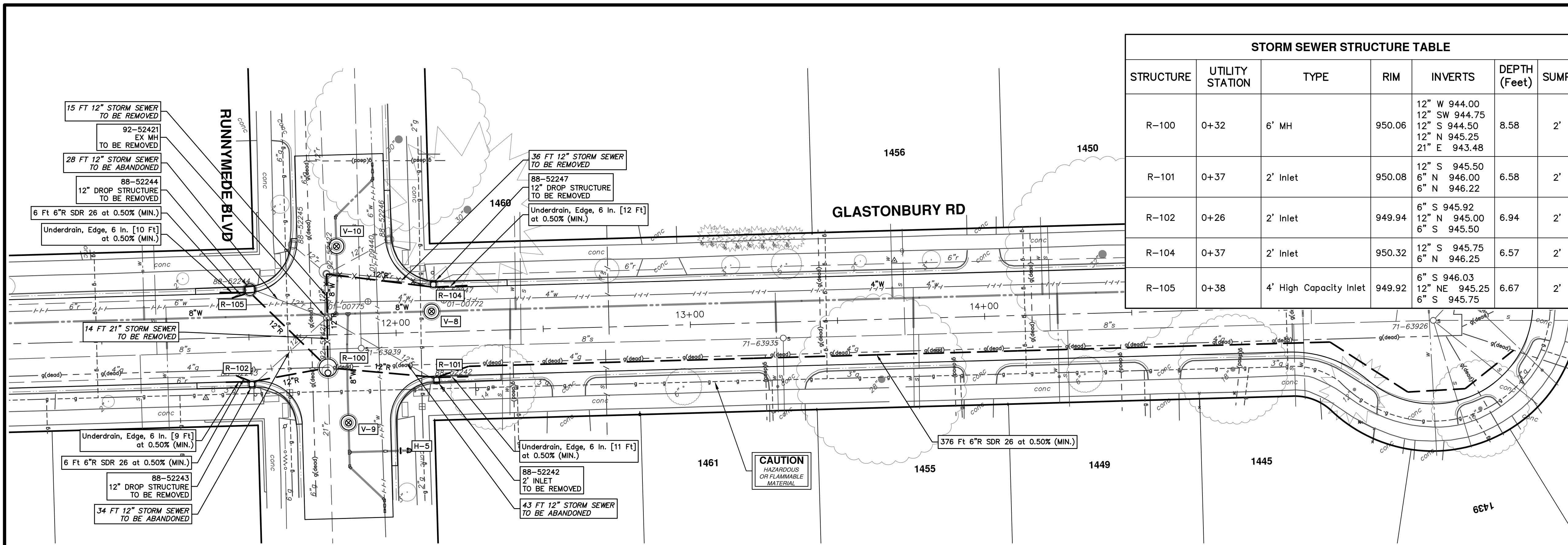


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2025 MISCELLANEOUS UTILITY PROJECTS
STORM SEWER - GLASTONBURY WELDON
R-106 - R-111

SCALE PLAN: 1" = 20'
PROFILE: 1" = 2'
DRAWING NO. 2024006-41
SHEET NO. 41 OF 52



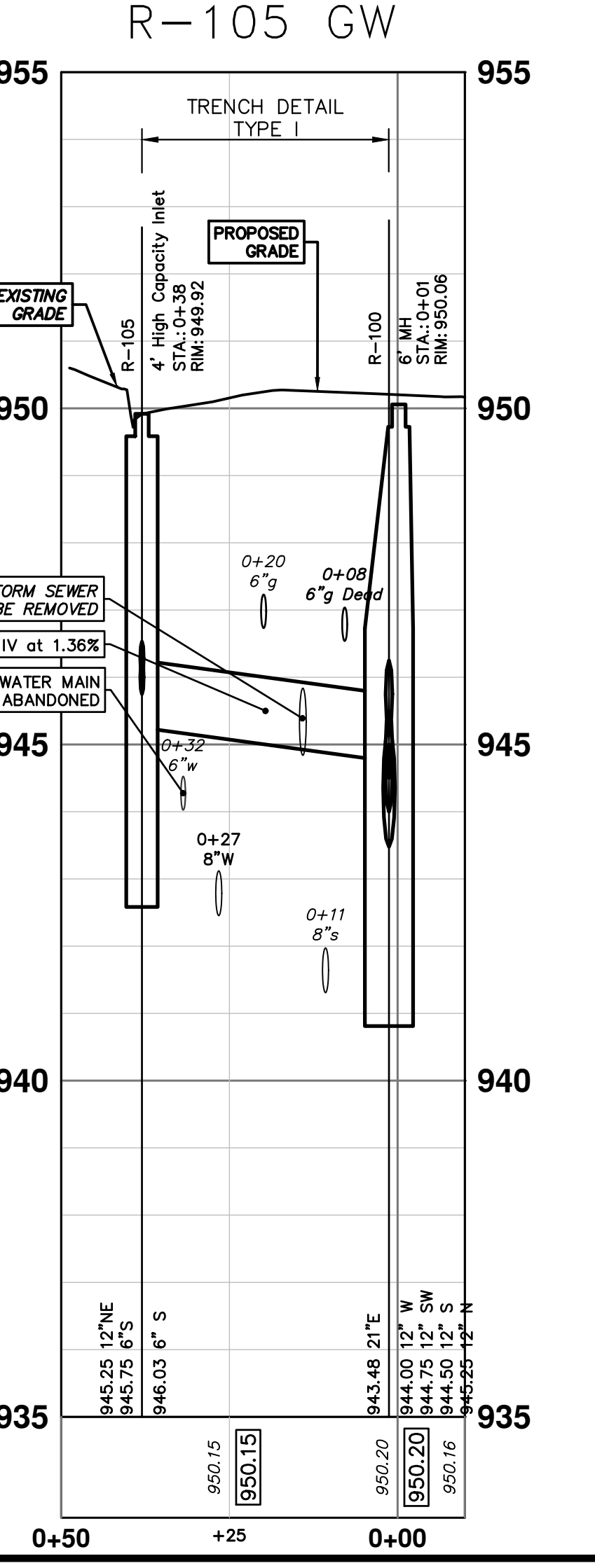
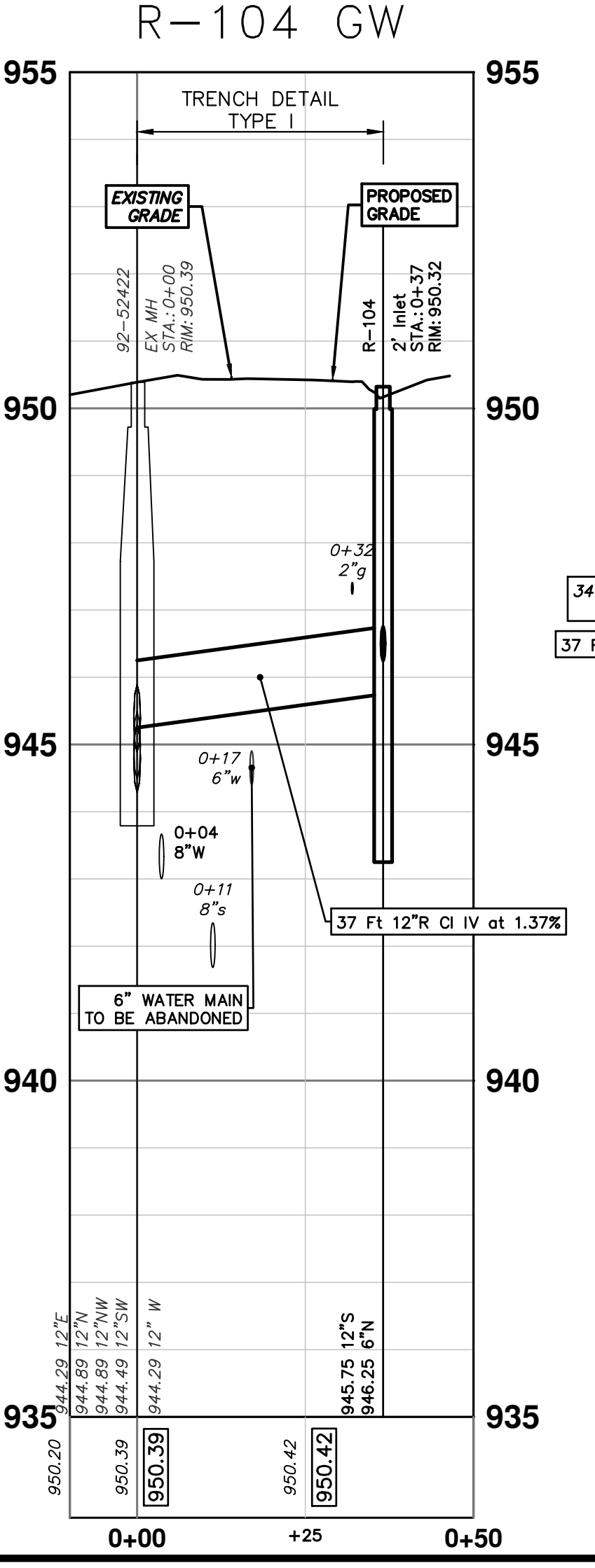
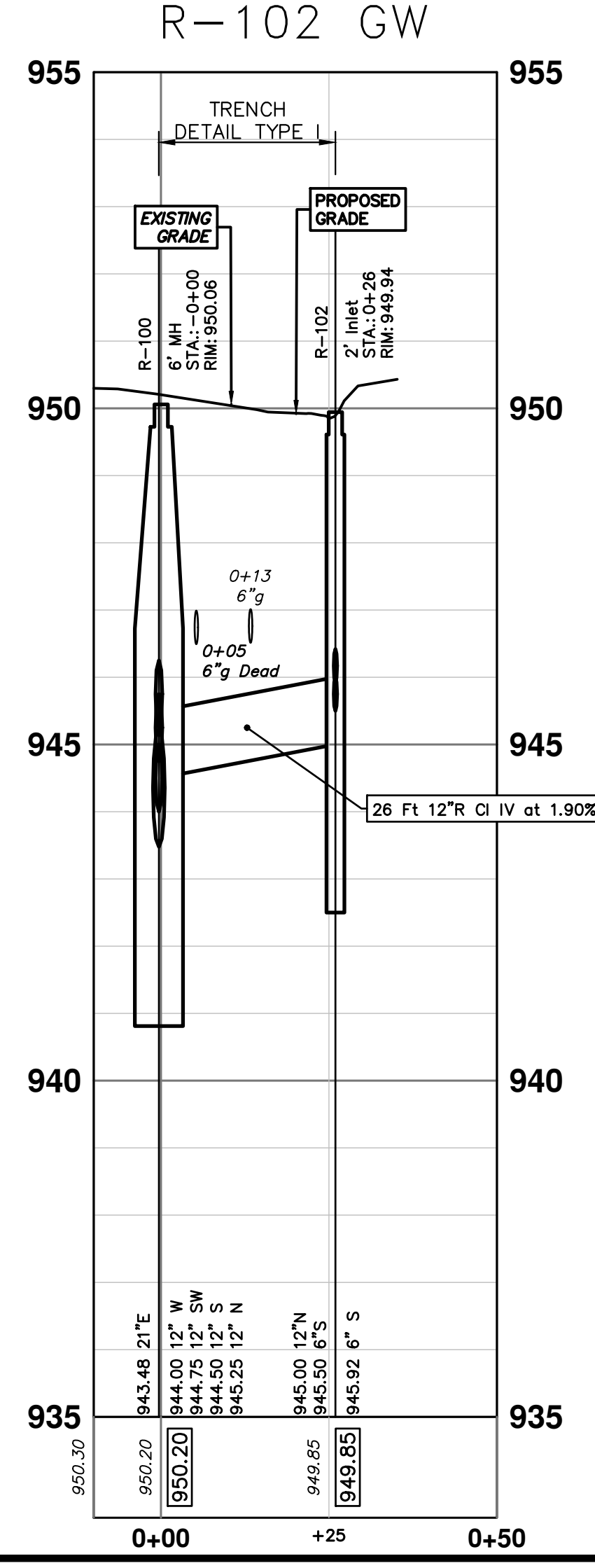
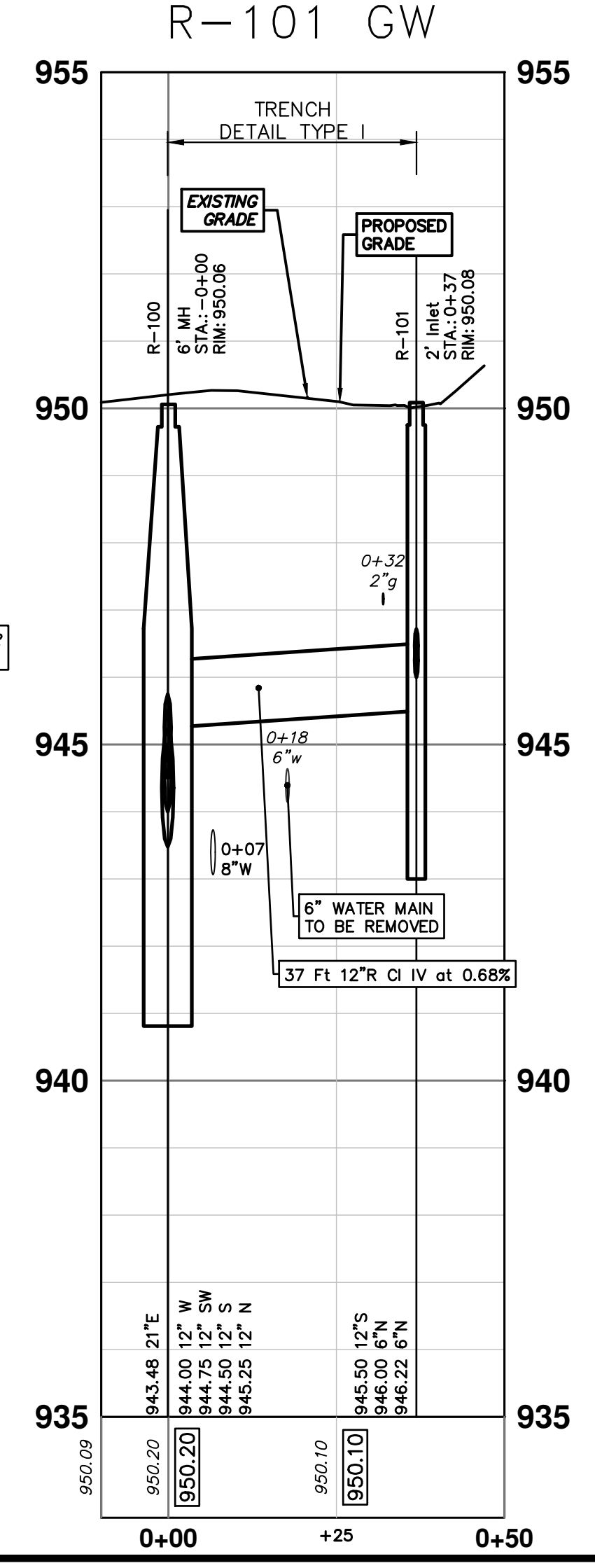
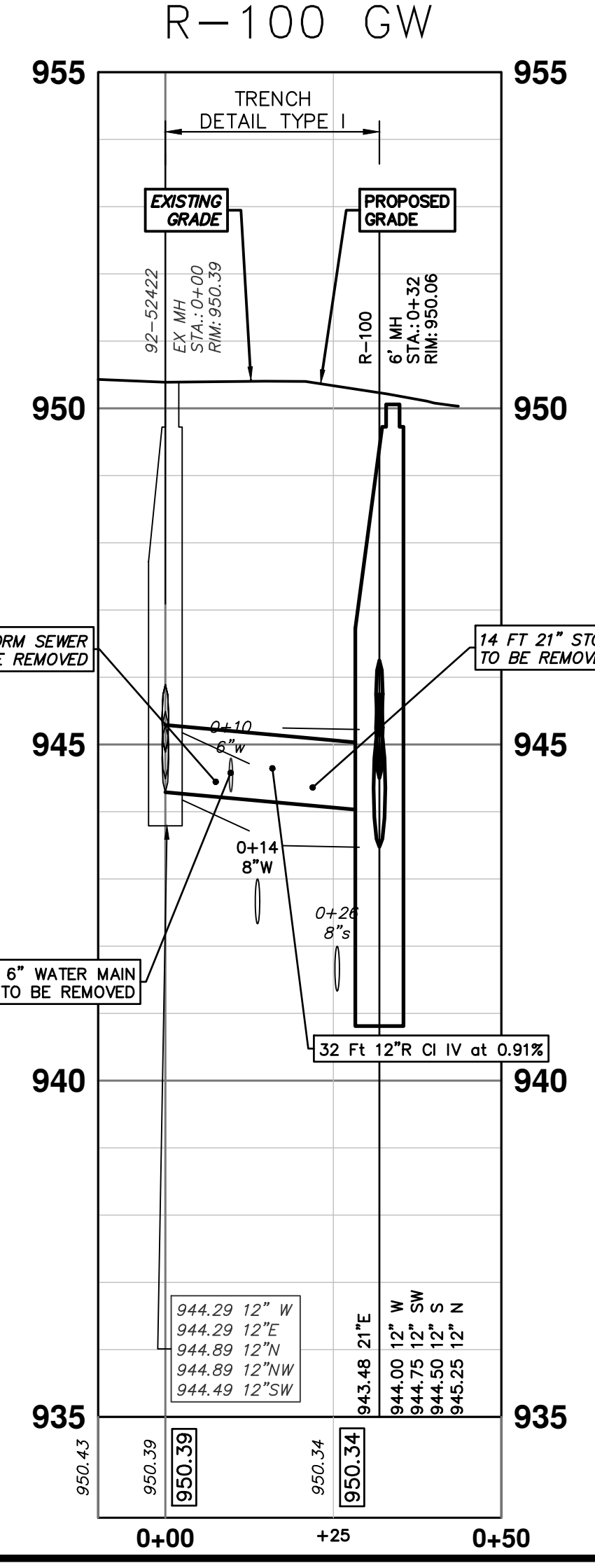
STORM SEWER STRUCTURE TABLE						
STRUCTURE	UTILITY STATION	TYPE	RIM	INVERTS	DEPTH (Feet)	SUMP
R-100	0+32	6' MH	950.06	12" W 944.00 12" SW 944.75 12" S 944.50 12" N 945.25 21" E 943.48	8.58	2'
R-101	0+37	2' Inlet	950.08	12" S 945.50 6" N 946.00 6" N 946.22	6.58	2'
R-102	0+26	2' Inlet	949.94	6" S 945.92 12" N 945.00 6" S 945.50	6.94	2'
R-104	0+37	2' Inlet	950.32	12" S 945.75 6" N 946.25	6.57	2'
R-105	0+38	4' High Capacity Inlet	949.92	6" S 946.03 12" NE 945.25 6" S 945.75	6.67	2'

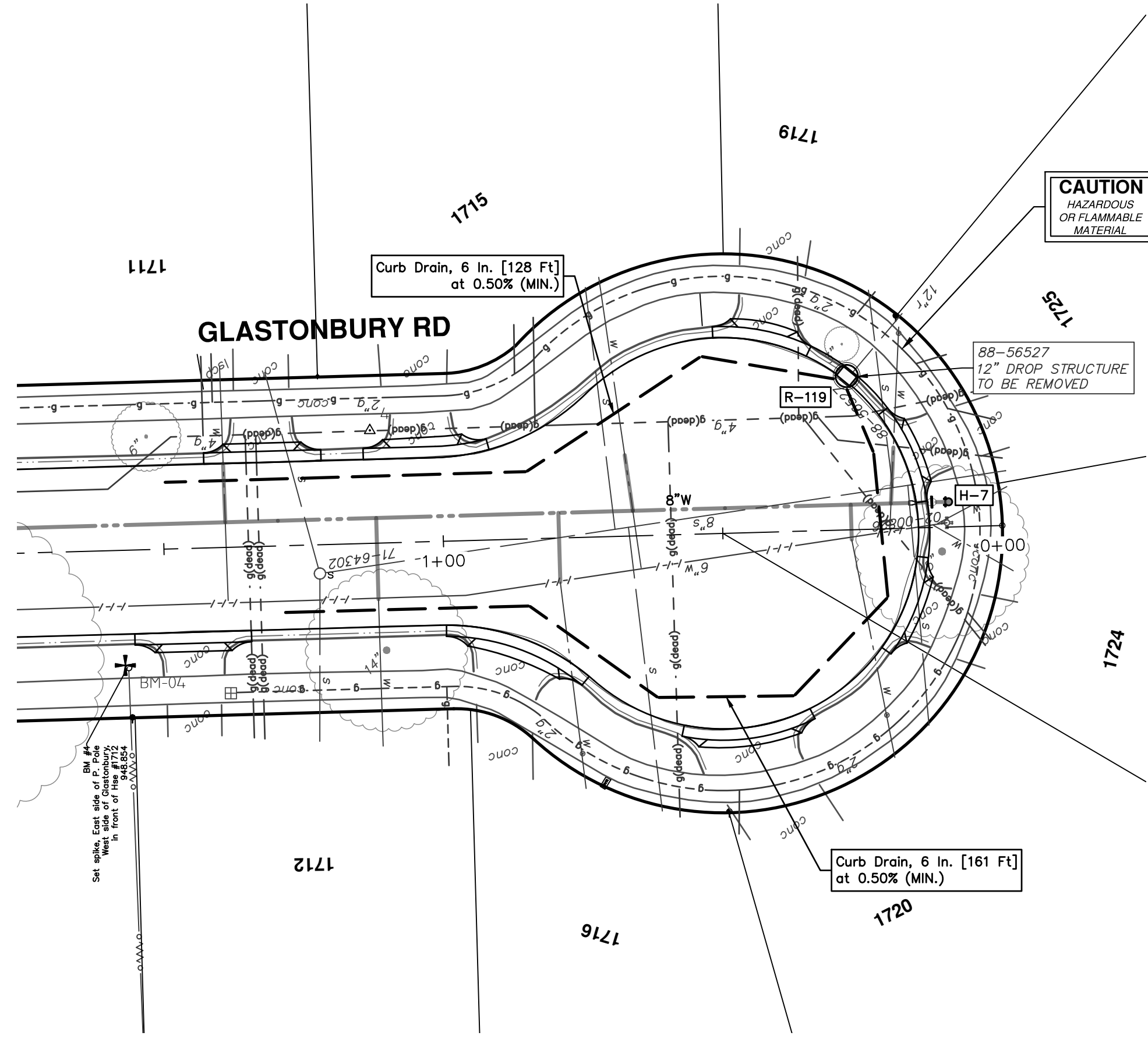
EXISTING STORM SEWER STRUCTURE REMOVAL TABLE		
STRUCTURE	DEPTH (Feet)	REMOVE
88-52243	4.71	12" Drop Structure TO BE REMOVED
88-52242	2.93	2' Inlet TO BE REMOVED
88-52247	3.30	12" Drop Structure TO BE REMOVED
88-52244	3.87	12" Drop Structure TO BE REMOVED
92-52421	6.90	EX MH TO BE REMOVED

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**EXISTING STORM SEWER
STRUCTURE REMOVAL
TABLE**

STRUCTURE	DEPTH (Feet)	REMOVE
88-56527	4.31	12" Drop Structure TO BE REMOVED

STORM SEWER STRUCTURE TABLE

STRUCTURE	UTILITY STATION	TYPE	RIM	INVERTS	DEPTH (Feet)	SUMP
R-119	0+28	4' High Capacity Inlet	943.92	6" N 939.90 6" SW 939.90 12" SE 939.38	6.54	2'



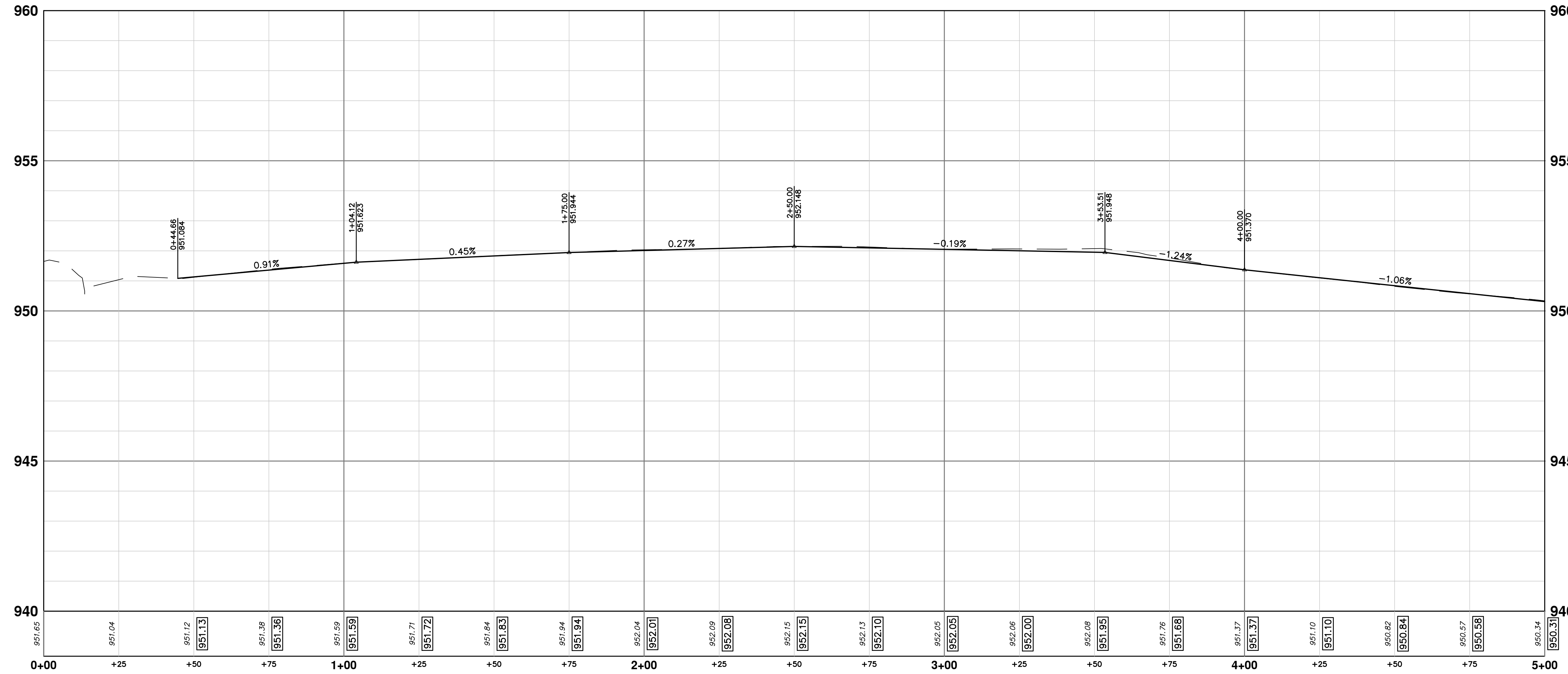
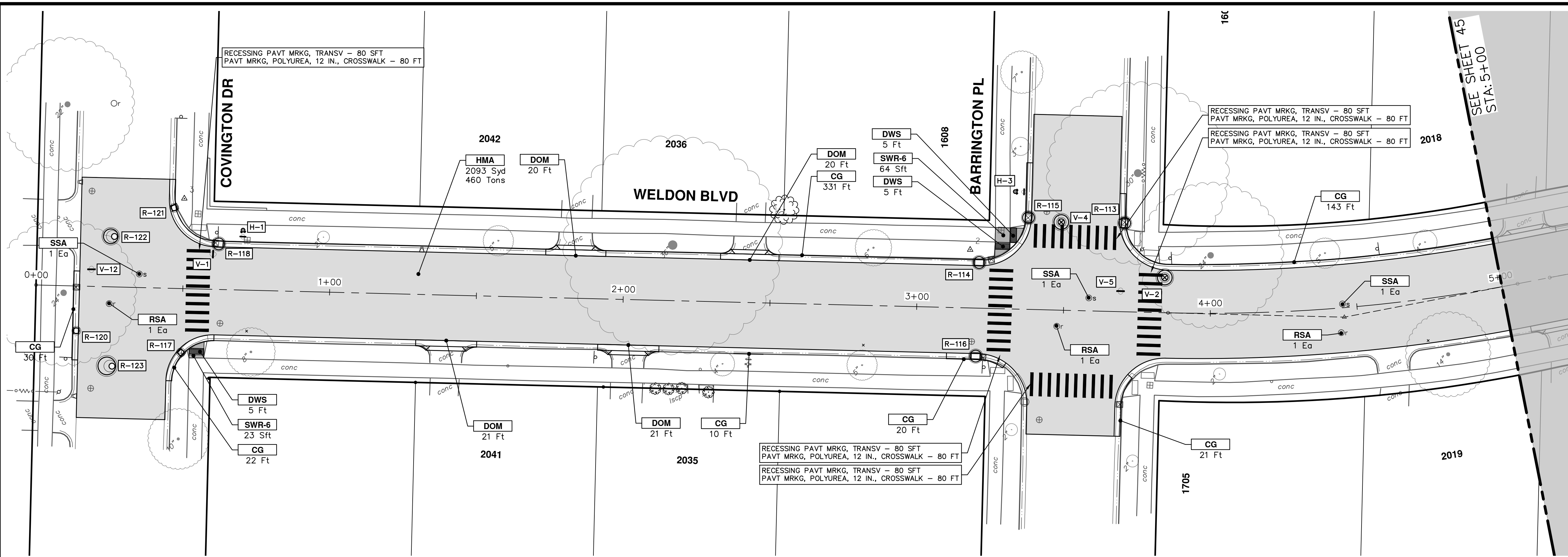
REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	BID SET	12/12/24	AZD	TA

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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
2025 MISCELLANEOUS UTILITY PROJECTS
STORM SEWER - GLASTONBURY WELDON

SCALE PLAN: 1" = 20'
PROFILE: 1" = 2'
DRAWING No. 2024006-43



CONSTRUCTION KEY	
KEY	DESCRIPTION
HMA	PLACE HMA, PLACE MATERIAL IN LIFTS ACCORDING TO THE TYPICAL SECTION AND AS DIRECTED BY THE ENGINEER.
HMA APP	HMA Approach
HP	Hand Patching
CG	Conc, Curb or Curb & Gutter, All Types
DOM	Conc, Driveway Opening, Type M
DOM-HE	Conc, Driveway Opening, Type M, High Early
DG-6	DRIVEWAY GRAVEL 6 INCH 21AA LIMESTONE, C.I.P.
MGD	MACHINE GRADING, DRIVEWAY
SW-4	Conc, Sidewalk, 4 In.
SWR-6	Conc, Sidewalk, Drive Approach, or Ramp, 6 In.
SW6-HE	Conc, Sidewalk, Drive Approach, or Ramp, 6 In., High Early
SW8	Conc, Sidewalk, Drive Approach, or Ramp, 8 In.
DWS	Detectable Warning Surface
ABO	ADJUST BY OTHERS
AMB	Monument Box, Adjust
AGB	Gate Box, Adjust
RSA	Storm Structure Cover, Adjust
SSA	Sanitary Structure Cover, Adjust
WSA	Water Structure Cover, Adjust

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
 2025 MISCELLANEOUS UTILITY PROJECTS
 ROAD PLAN & PROFILE - WELDON BLVD
 STA. 0+00 - STA. 5+00

811
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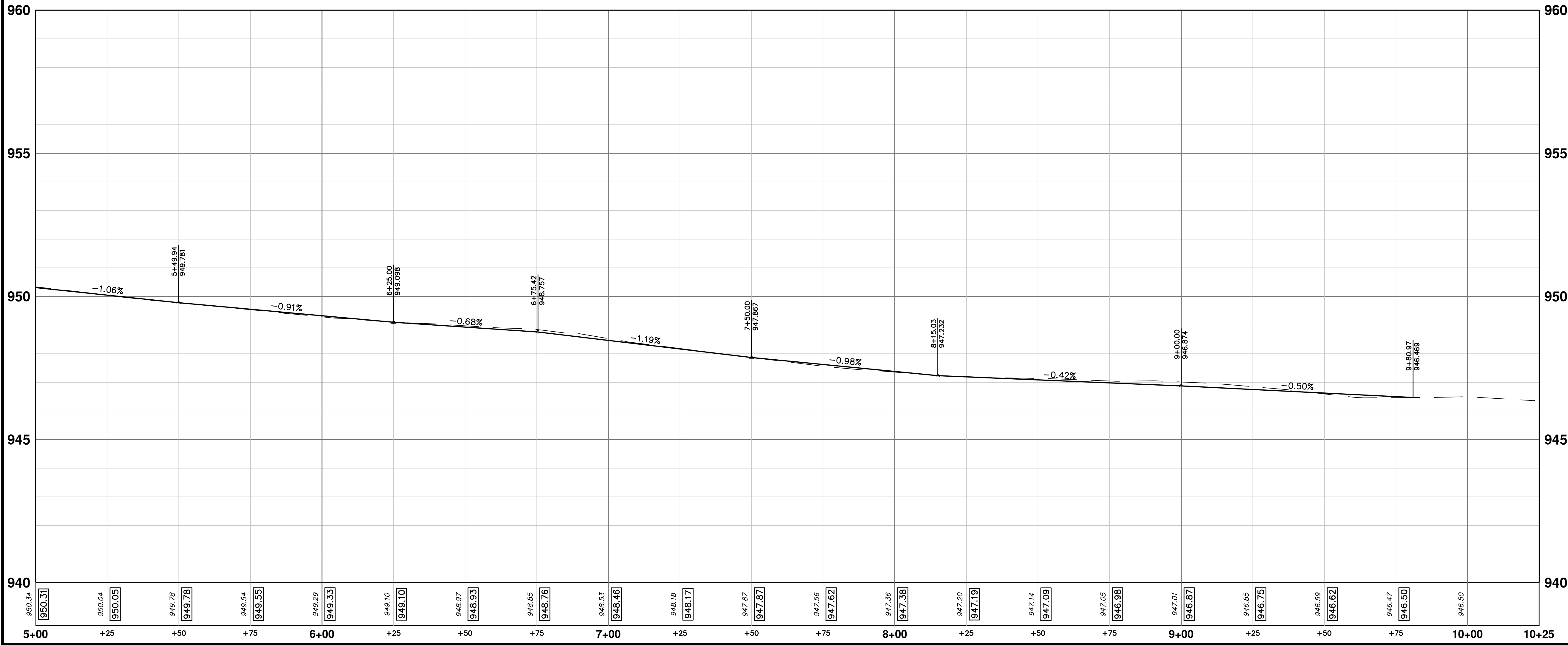
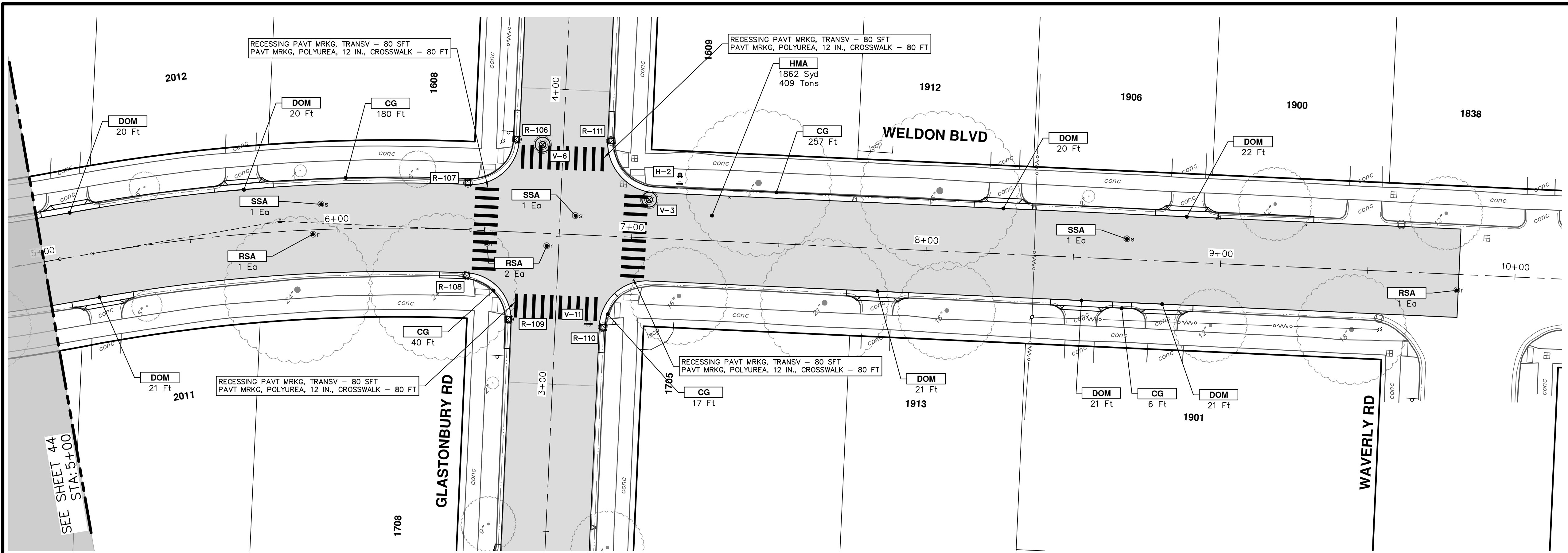
12/12/24
DATE
AZD
DRAWN
TA
CHECKED

01
REV
DESCRIPTION


SHEET No.
44 OF 52

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

DRAWING No.
2024006-44




CONSTRUCTION KEY	
KEY	DESCRIPTION
HMA	PLACE HMA, PLACE MATERIAL IN LIFTS ACCORDING TO THE TYPICAL SECTION AND AS DIRECTED BY THE ENGINEER.
HMA APP	HMA Approach
HP	Hand Patching
CG	Conc, Curb or Curb & Gutter, All Types
DOM	Conc, Driveway Opening, Type M
DOM-HE	Conc, Driveway Opening, Type M, High Early
DG-6	DRIVEWAY GRAVEL 6 INCH 21AA LIMESTONE, C.I.P.
MGD	MACHINE GRADING, DRIVEWAY
SW-4	Conc, Sidewalk, 4 In.
SWR-6	Conc, Sidewalk, Drive Approach, or Ramp, 6 In.
SW6-HE	Conc, Sidewalk, Drive Approach, or Ramp, 6 In., High Early
SW8	Conc, Sidewalk, Drive Approach, or Ramp, 8 In.
DWS	Detectable Warning Surface
ABO	ADJUST BY OTHERS
AMB	Monument Box, Adjust
AGB	Gate Box, Adjust
RSA	Storm Structure Cover, Adjust
SSA	Sanitary Structure Cover, Adjust
WSA	Water Structure Cover, Adjust




Know what's below.
Call before you dig.

REV	DATE	DESCRIPTION
01	12/12/24	BID SET



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2025 MISCELLANEOUS UTILITY PROJECTS
 ROAD PLAN & PROFILE - WELDON BLVD
 STA. 5+00 - STA. 10+25

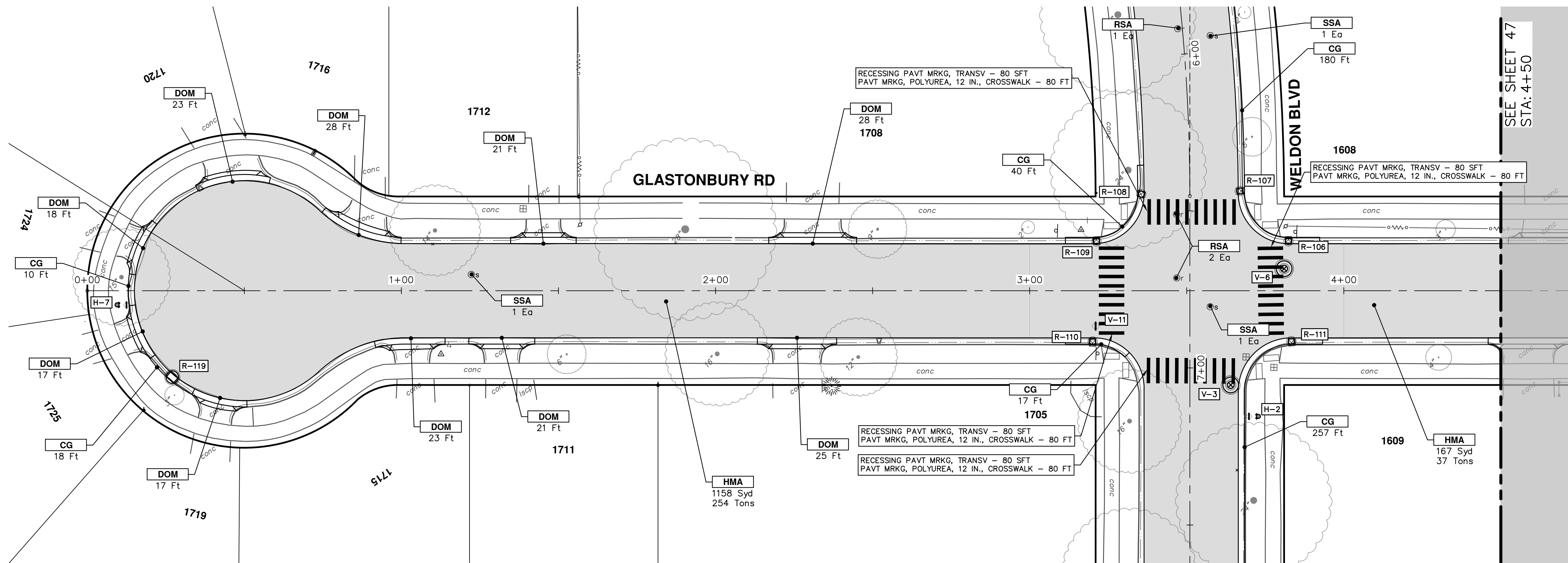
SCALE PLAN: 1" = 20'
 PROFILE: 1" = 2'



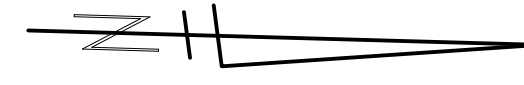
DRAWING No. **2024006-45**

SHEET No. **45 OF 52**

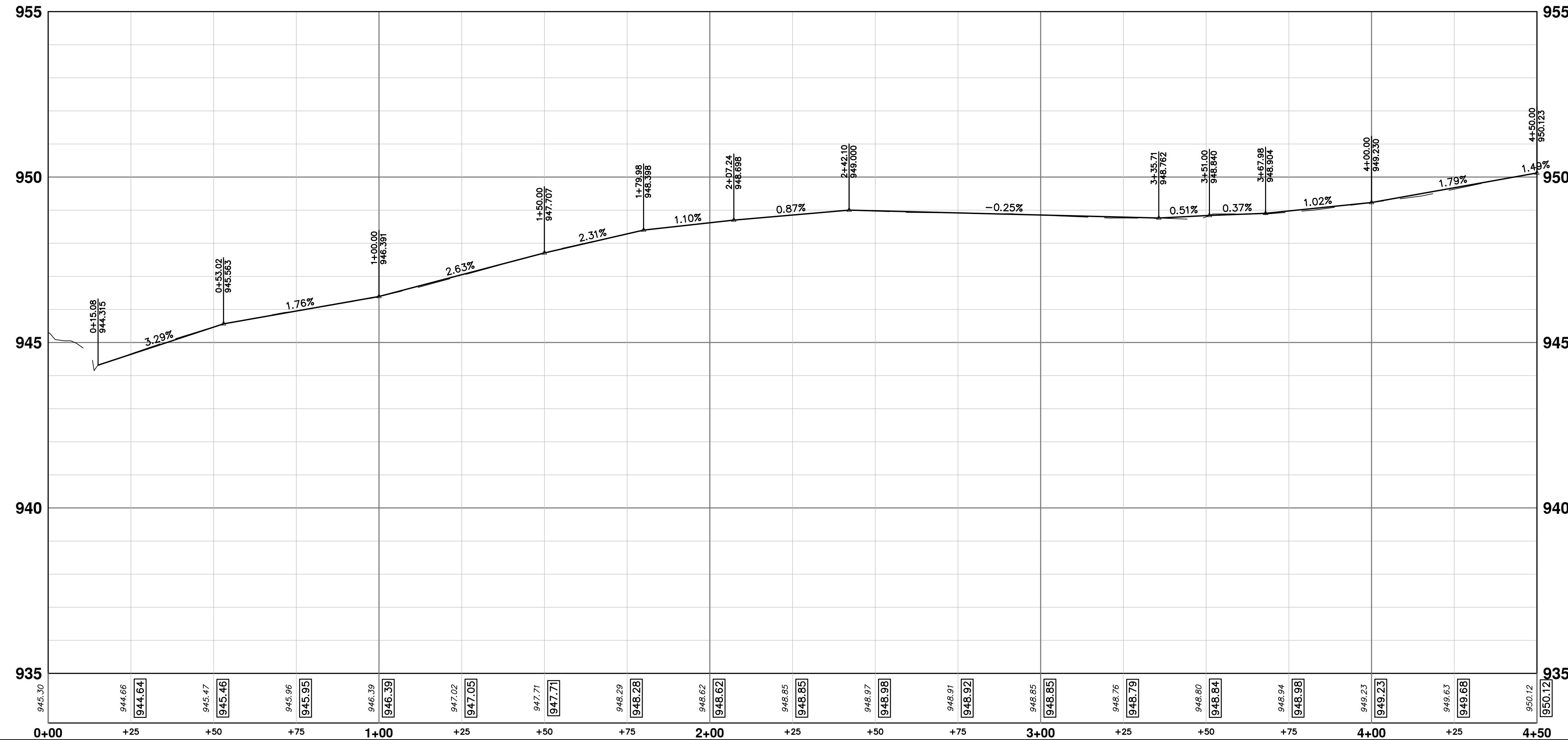
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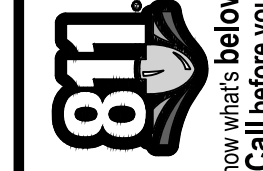


SEE SHEET 47
STA: 4+50



CONSTRUCTION KEY	
KEY	DESCRIPTION
HMA	PLACE HMA, PLACE MATERIAL IN LIFTS ACCORDING TO THE TYPICAL SECTION AND AS DIRECTED BY THE ENGINEER.
HMA APP	HMA Approach
HP	Hand Patching
CG	Conc, Curb or Curb & Gutter, All Types
DOM	Conc, Driveway Opening, Type M
DOM-HE	Conc, Driveway Opening, Type M, High Early
DG-6	DRIVEWAY GRAVEL 6 INCH 21AA LIMESTONE, C.I.P.
MGD	MACHINE GRADING, DRIVEWAY
SW-4	Conc, Sidewalk, 4 In.
SWR-6	Conc, Sidewalk, Drive Approach, or Ramp, 6 In.
SW6-HE	Conc, Sidewalk, Drive Approach, or Ramp, 6 In., High Early
SW8	Conc, Sidewalk, Drive Approach, or Ramp, 8 In.
DWS	Detectable Warning Surface
ABO	ADJUST BY OTHERS
AMB	Monument Box, Adjust
AGB	Gate Box, Adjust
RSA	Storm Structure Cover, Adjust
SSA	Sanitary Structure Cover, Adjust
WSA	Water Structure Cover, Adjust





CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
2025 MISCELLANEOUS UTILITY PROJECTS
ROAD PLAN & PROFILE - GLASTONBURY RD

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

DRAWING No. 2024006-46

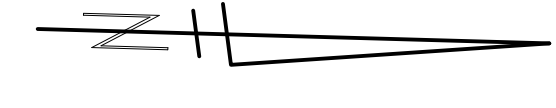
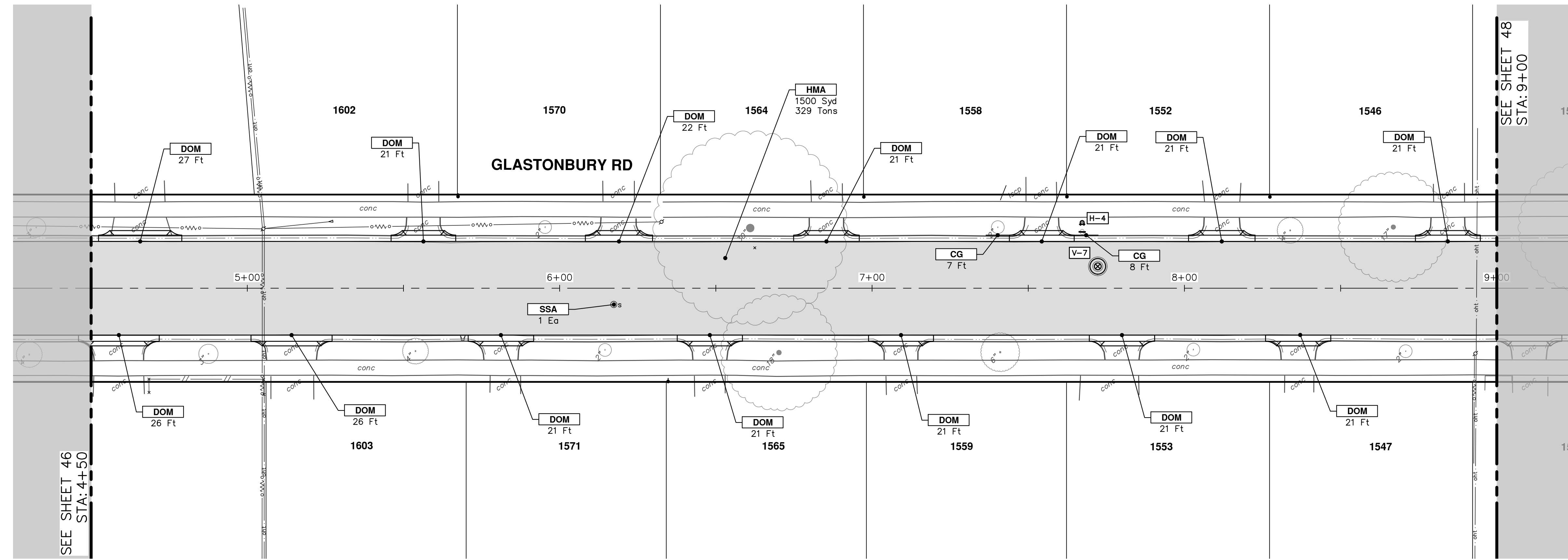
SHEET No. 46 OF 52

STA. 0+00 - STA. 4+50

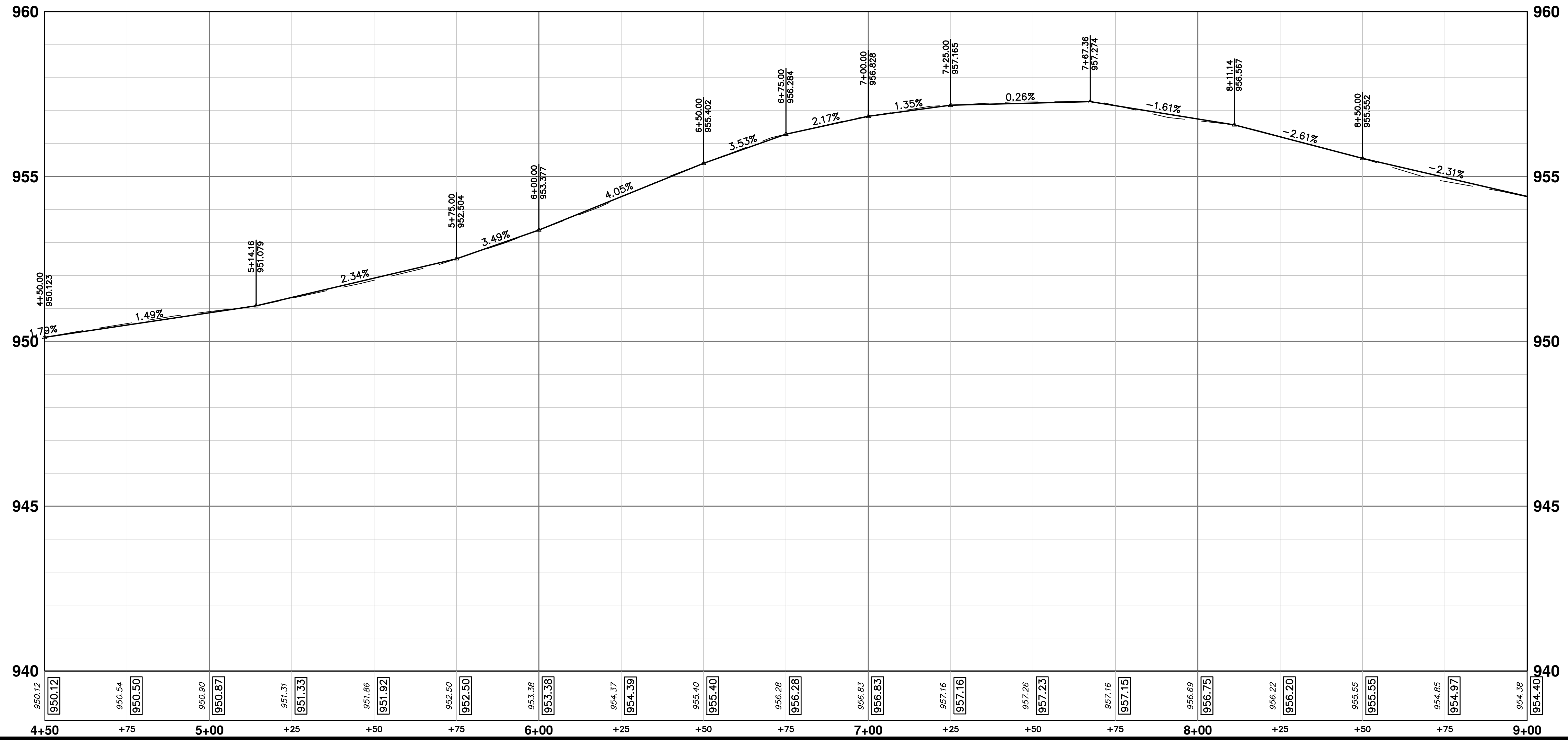
DATE: 12/12/24
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REV. 01 BID SET

Know what's below. Call before you dig.



CONSTRUCTION KEY	
KEY	DESCRIPTION
HMA	PLACE HMA, PLACE MATERIAL IN LIFTS ACCORDING TO THE TYPICAL SECTION AND AS DIRECTED BY THE ENGINEER.
HMA APP	HMA Approach
HP	Hand Patching
CG	Conc, Curb or Curb & Gutter, All Types
DOM	Conc, Driveway Opening, Type M
DOM-HE	Conc, Driveway Opening, Type M, High Early
DG-6	DRIVEWAY GRAVEL 6 INCH 21AA LIMESTONE, C.I.P.
MGD	MACHINE GRADING, DRIVEWAY
SW-4	Conc, Sidewalk, 4 In.
SWR-6	Conc, Sidewalk, Drive Approach, or Ramp, 6 In.
SW6-HE	Conc, Sidewalk, Drive Approach, or Ramp, 6 In., High Early
SW8	Conc, Sidewalk, Drive Approach, or Ramp, 8 In.
DWS	Detectable Warning Surface
ABO	ADJUST BY OTHERS
AMB	Monument Box, Adjust
AGB	Gate Box, Adjust
RSA	Storm Structure Cover, Adjust
SSA	Sanitary Structure Cover, Adjust
WSA	Water Structure Cover, Adjust



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

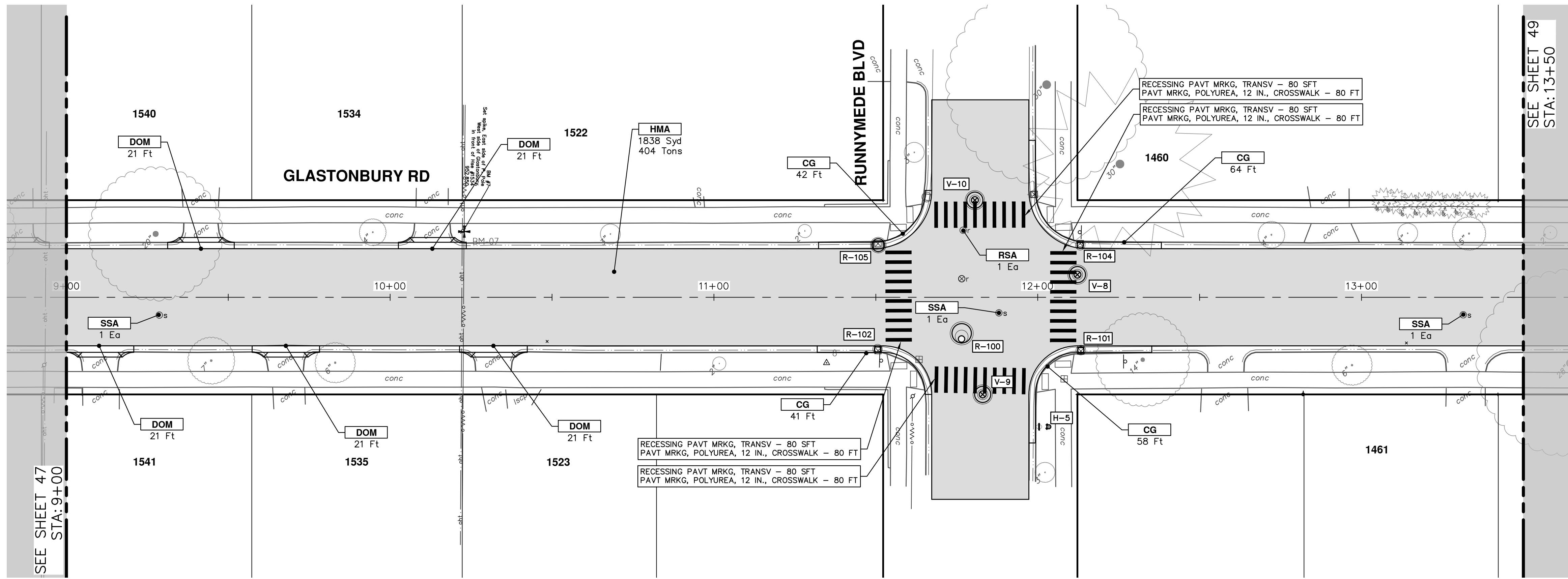
01 BID SET
12/12/24 DATE
AZD DRAWN
TA CHECKED

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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
2025 MISCELLANEOUS UTILITY PROJECTS
ROAD PLAN & PROFILE - GLASTONBURY RD
STA. 4+50 - STA. 9+00

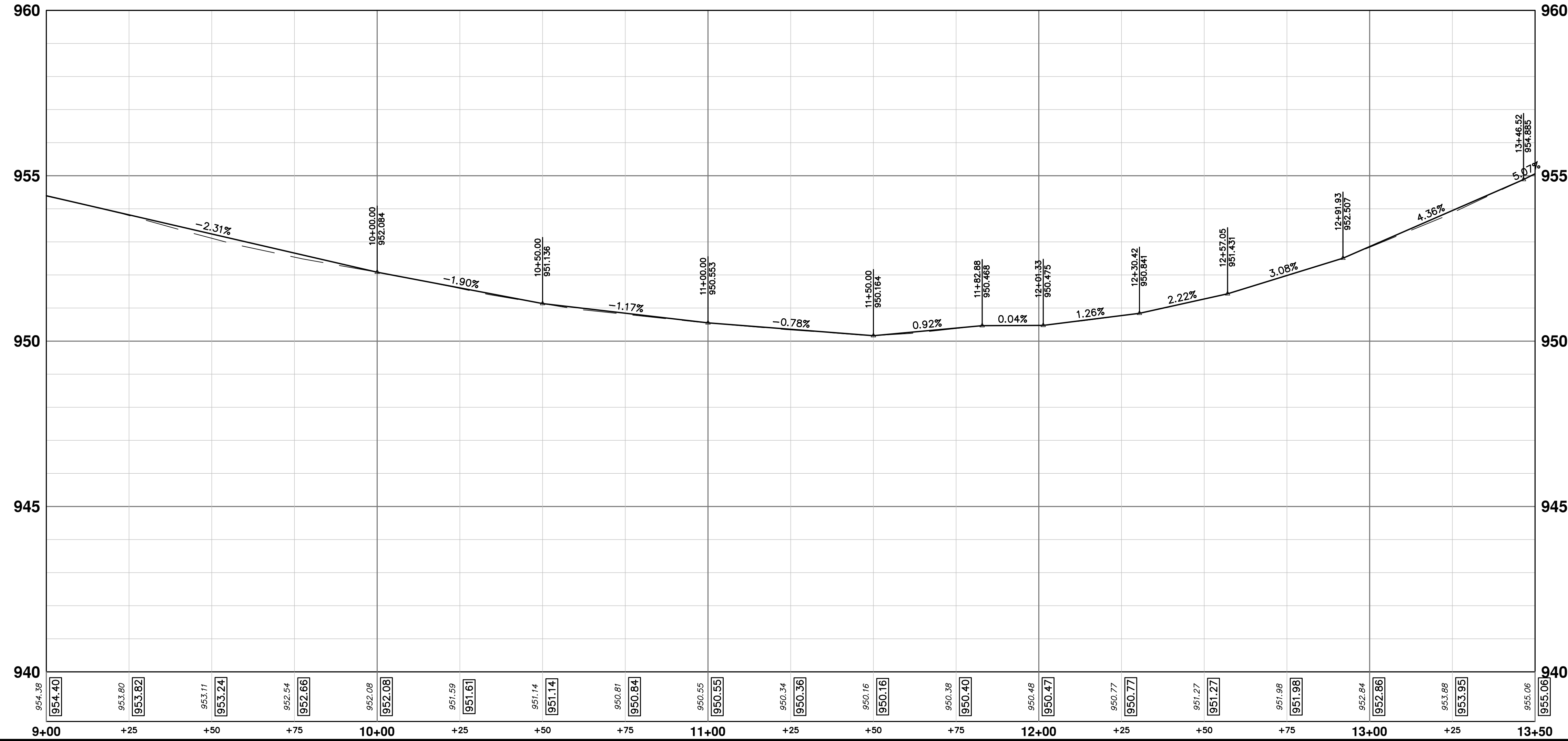
SHEET No. 47 OF 52

DRAWING No. 2024006-47
SCALE PLAN: 1" = 20'
PROFILE: 1" = 2'



SEE SHEET 49
STA: 13+50

CONSTRUCTION KEY	
KEY	DESCRIPTION
HMA	PLACE HMA, PLACE MATERIAL IN LIFTS ACCORDING TO THE TYPICAL SECTION AND AS DIRECTED BY THE ENGINEER.
HMA APP	HMA Approach
HP	Hand Patching
CG	Conc. Curb or Curb & Gutter, All Types
DOM	Conc. Driveway Opening, Type M
DOM-HE	Conc. Driveway Opening, Type M, High Early
DG-6	DRIVEWAY GRAVEL 6 INCH 21AA LIMESTONE, C.I.P.
MGD	MACHINE GRADING, DRIVEWAY
SW-4	Conc. Sidewalk, 4 In.
SWR-6	Conc. Sidewalk, Drive Approach, or Ramp, 6 In.
SW6-HE	Conc. Sidewalk, Drive Approach, or Ramp, 6 In., High Early
SW8	Conc. Sidewalk, Drive Approach, or Ramp, 8 In.
DWS	Detectable Warning Surface
ABO	ADJUST BY OTHERS
AMB	Monument Box, Adjust
AGB	Gate Box, Adjust
RSA	Storm Structure Cover, Adjust
SSA	Sanitary Structure Cover, Adjust
WSA	Water Structure Cover, Adjust



CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

2025 MISCELLANEOUS UTILITY PROJECTS

ROAD PLAN & PROFILE - GLASTONBURY RD

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

DRAWING No. 2024006-48

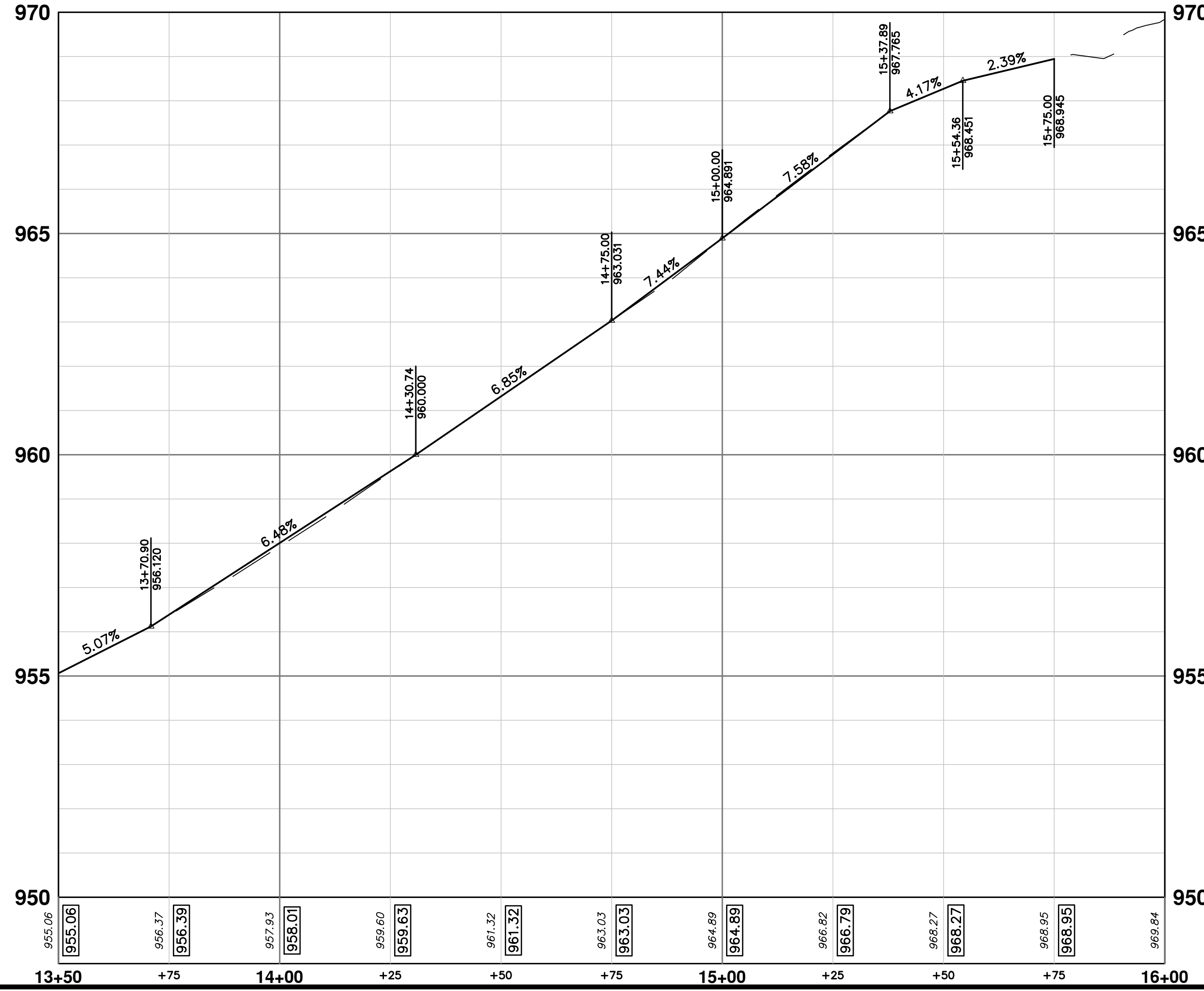
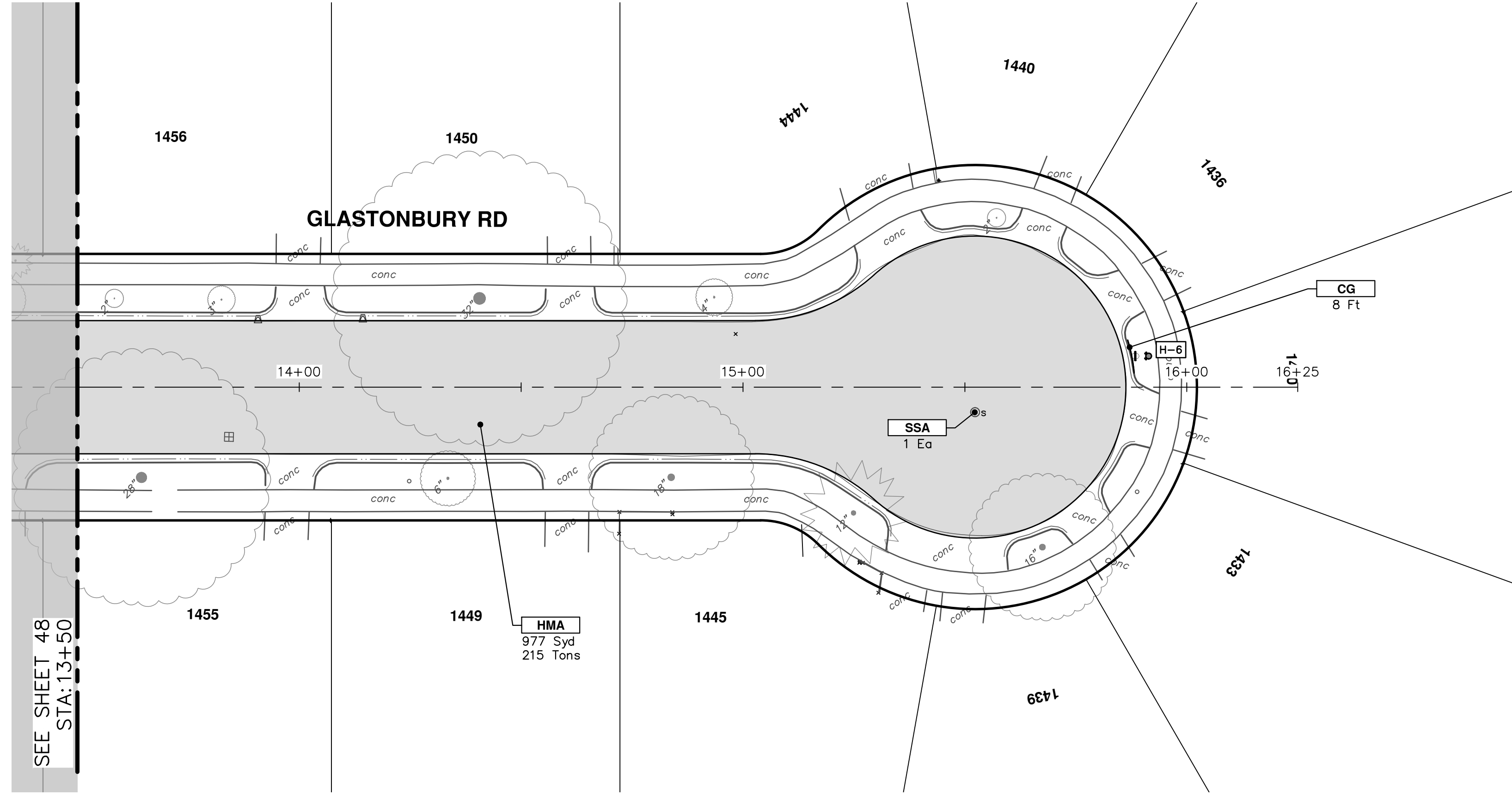
SHEET No. 48 OF 52

STA. 9+00 - STA. 13+50

DATE: 12/12/24
DRAWN: AZD
CHECKED: TA

ANN ARBOR, MICHIGAN

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PUBLIC SERVICES
301 EAST HURON STREET
ANN ARBOR, MI 48106-1667
ANN ARBOR 734.794.4410
WWW.ANARBOR.MI.GOV



CONSTRUCTION KEY	
KEY	DESCRIPTION
HMA	PLACE HMA. PLACE MATERIAL IN LIFTS ACCORDING TO THE TYPICAL SECTION AND AS DIRECTED BY THE ENGINEER.
HMA APP	HMA Approach
HP	Hand Patching
CG	Conc, Curb or Curb & Gutter, All Types
DOM	Conc, Driveway Opening, Type M
DOM-HE	Conc, Driveway Opening, Type M, High Early
DG-6	DRIVEWAY GRAVEL 6 INCH 21AA LIMESTONE, C.I.P.
MGD	MACHINE GRADING, DRIVEWAY
SW-4	Conc, Sidewalk, 4 In.
SWR-6	Conc, Sidewalk, Drive Approach, or Ramp, 6 In.
SW6-HE	Conc, Sidewalk, Drive Approach, or Ramp, 6 In., High Early
SW8	Conc, Sidewalk, Drive Approach, or Ramp, 8 In.
DWS	Detectable Warning Surface
ABO	ADJUST BY OTHERS
AMB	Monument Box, Adjust
AGB	Gate Box, Adjust
RSA	Storm Structure Cover, Adjust
SSA	Sanitary Structure Cover, Adjust
WSA	Water Structure Cover, Adjust

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

2025 MISCELLANEOUS UTILITY PROJECTS

ROAD PLAN & PROFILE - GLASTONBURY RD

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

DRAWING No. 2024006-49

STA. 13+50 - STA. 16+00

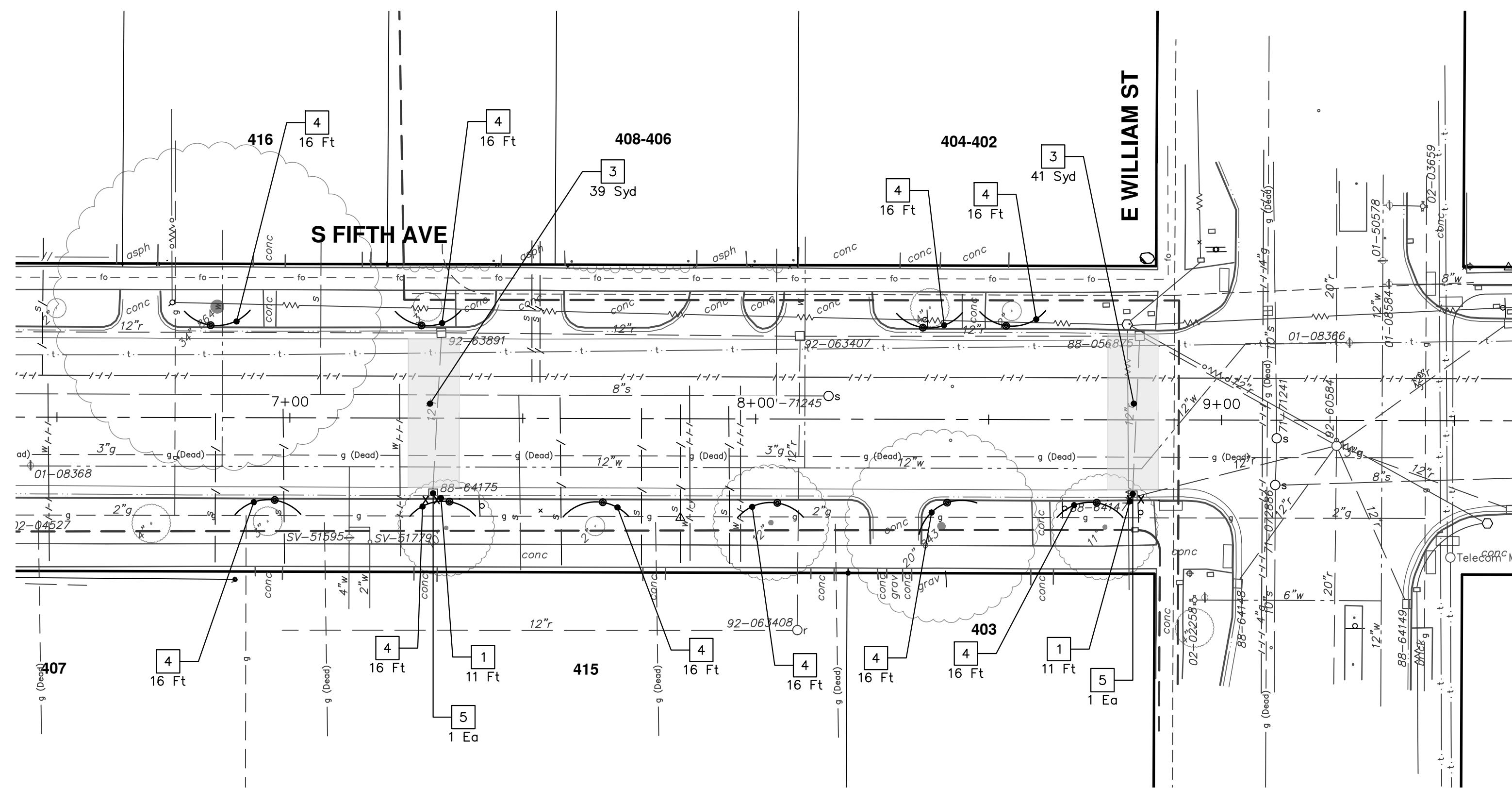
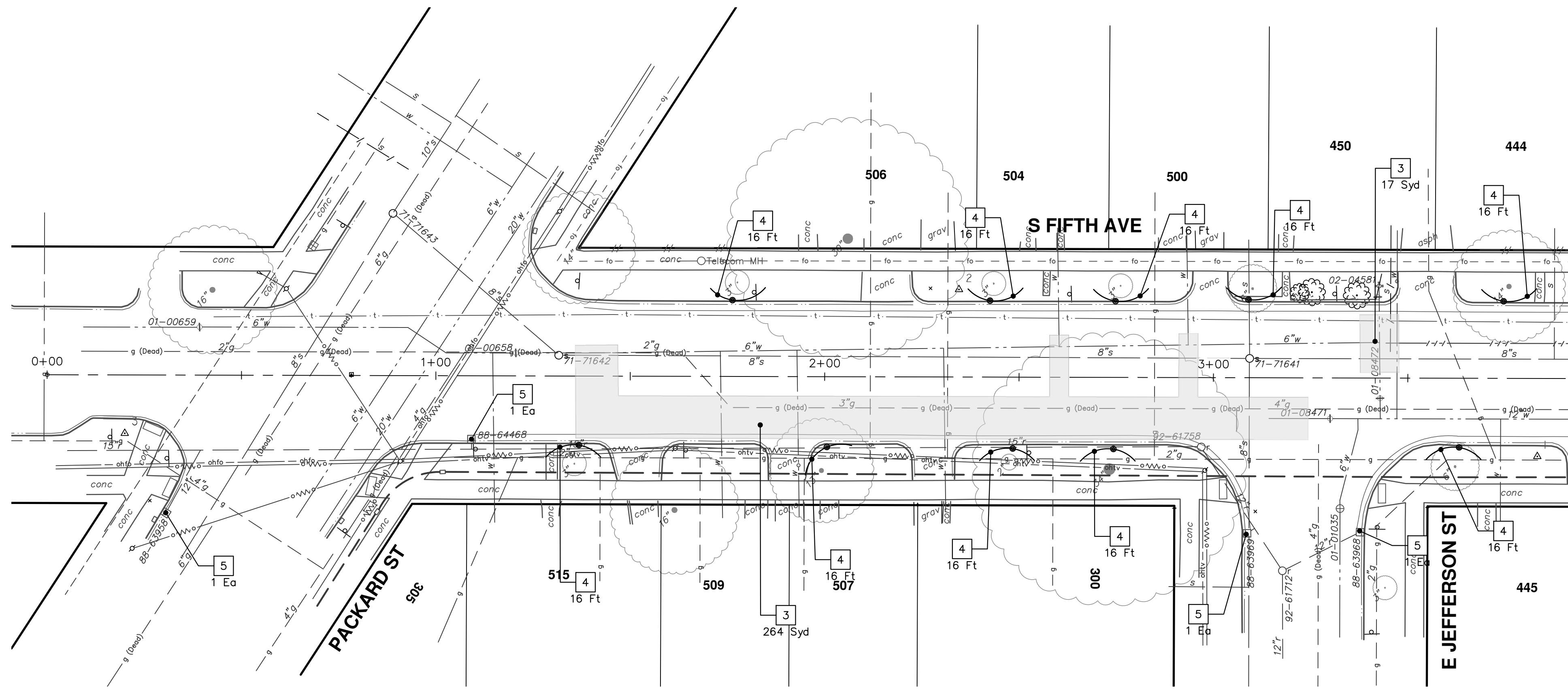
49 OF 52

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REV.	DATE	DESCRIPTION
01	12/12/24	BID SET
		DRAWN
		CHECKED

TA

Know what's below.
Call Before you dig.



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	Pavement, Any Thickness or Material, 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.

* SAWCUT FULL DEPTH AT REMOVAL LIMITS AS DIRECTED BY ENGINEER

THE CITY'S 2025 RESURFACING PROJECT WILL REPLACE ASPHALT AND CURB.
 CONTRACTOR SHALL PLAN WORK TO MAINTAIN ONE LANE OF LOCAL TRAFFIC AT ALL TIMES. CONTRACTOR SHALL USE 6 INCHES OF MAINTENANCE AGGREGATE ABOVE COMPACTED AGGREGATE BASE IN TRENCHES AFTER WORK IS COMPLETE, AND AS DIRECTED BY THE ENGINEER. MAINTENANCE AGGREGATE SHALL BE PAID FOR AS AGGREGATE BASE COURSE, 21AA CIP.



REV.	DATE	DESCRIPTION
01	12/12/24	BID SET
		DRAWN
		TA
		CHECKED

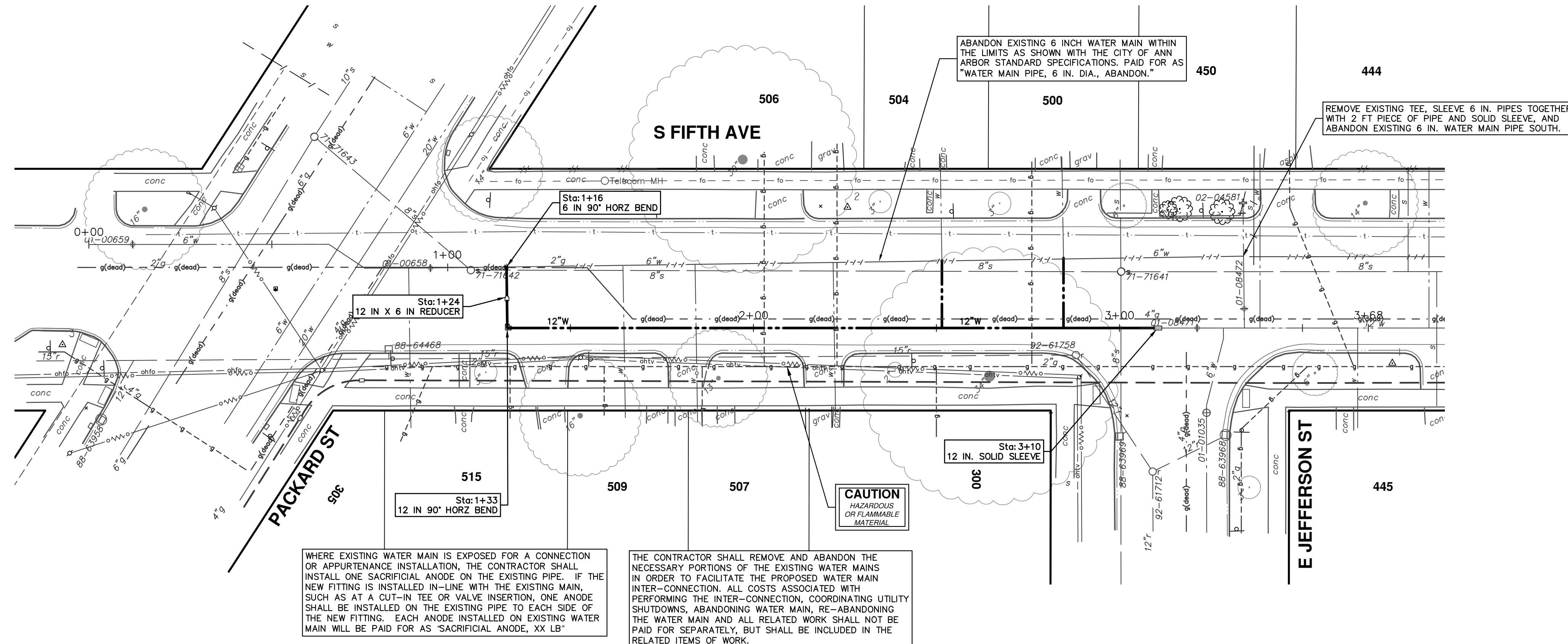
CITY OF ANN ARBOR
 PUBLIC SERVICES
 301 EAST HURON STREET
 ANN ARBOR, MI 48106-1667
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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
2025 MISCELLANEOUS UTILITY PROJECTS
 REMOVALS - S FIFTH AVE
 STA. 1+06 - STA. 9+00

SCALE: 1" = 20'
 DRAWING No. 2024006-50

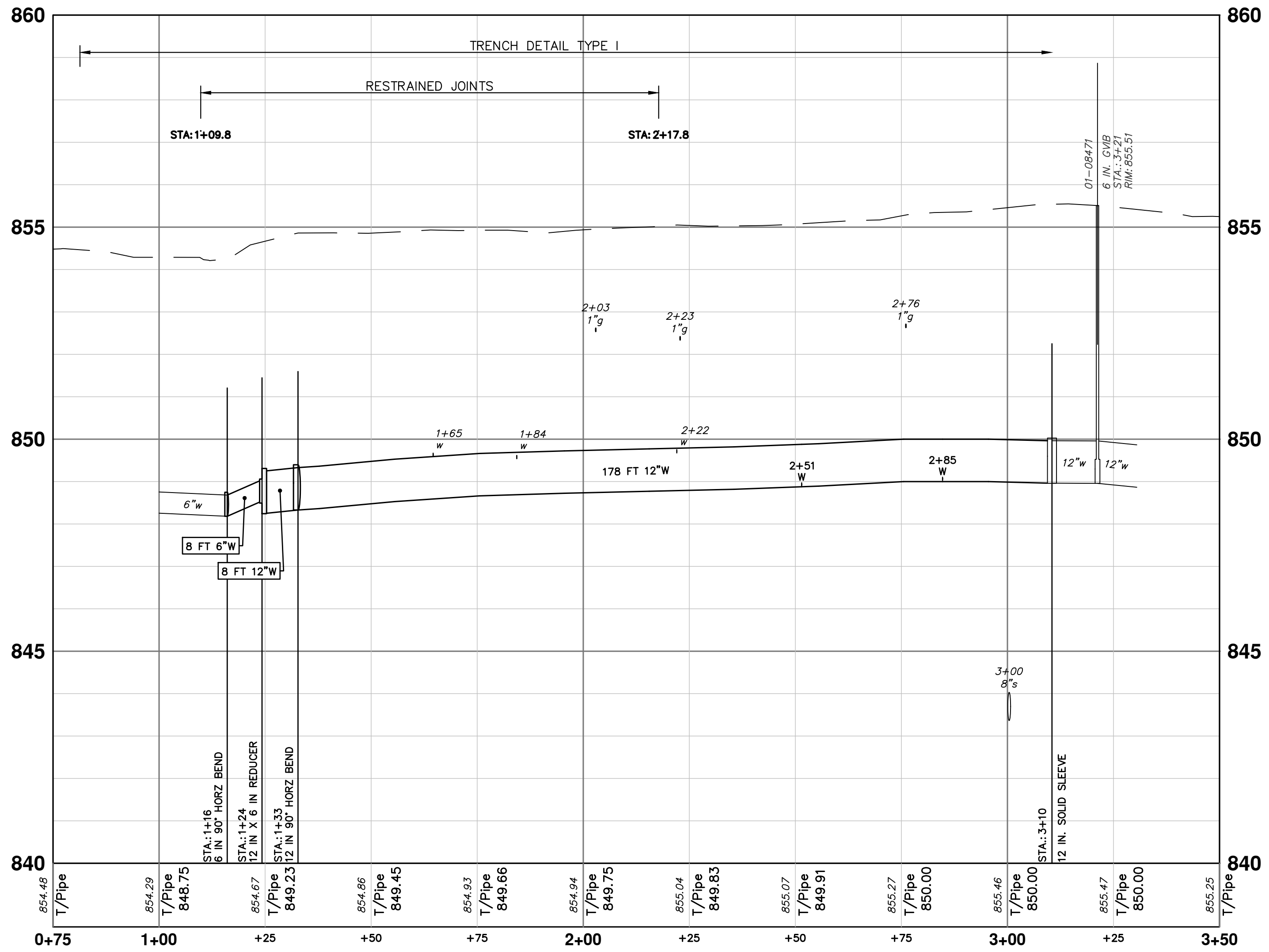
R:\2024006 Misc Util 2025\Plan Production\2024006Wtr Fifth.dwg Dwg Created: 21-Nov-24 - _a2 standard bw.stb - Plot Date: 12-Dec-24



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'

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.

CAUTION
HAZARDOUS OR FLAMMABLE MATERIAL



811
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01	BID SET	12/12/24	DATE	A2D	DRAWN	CHECKED

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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

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

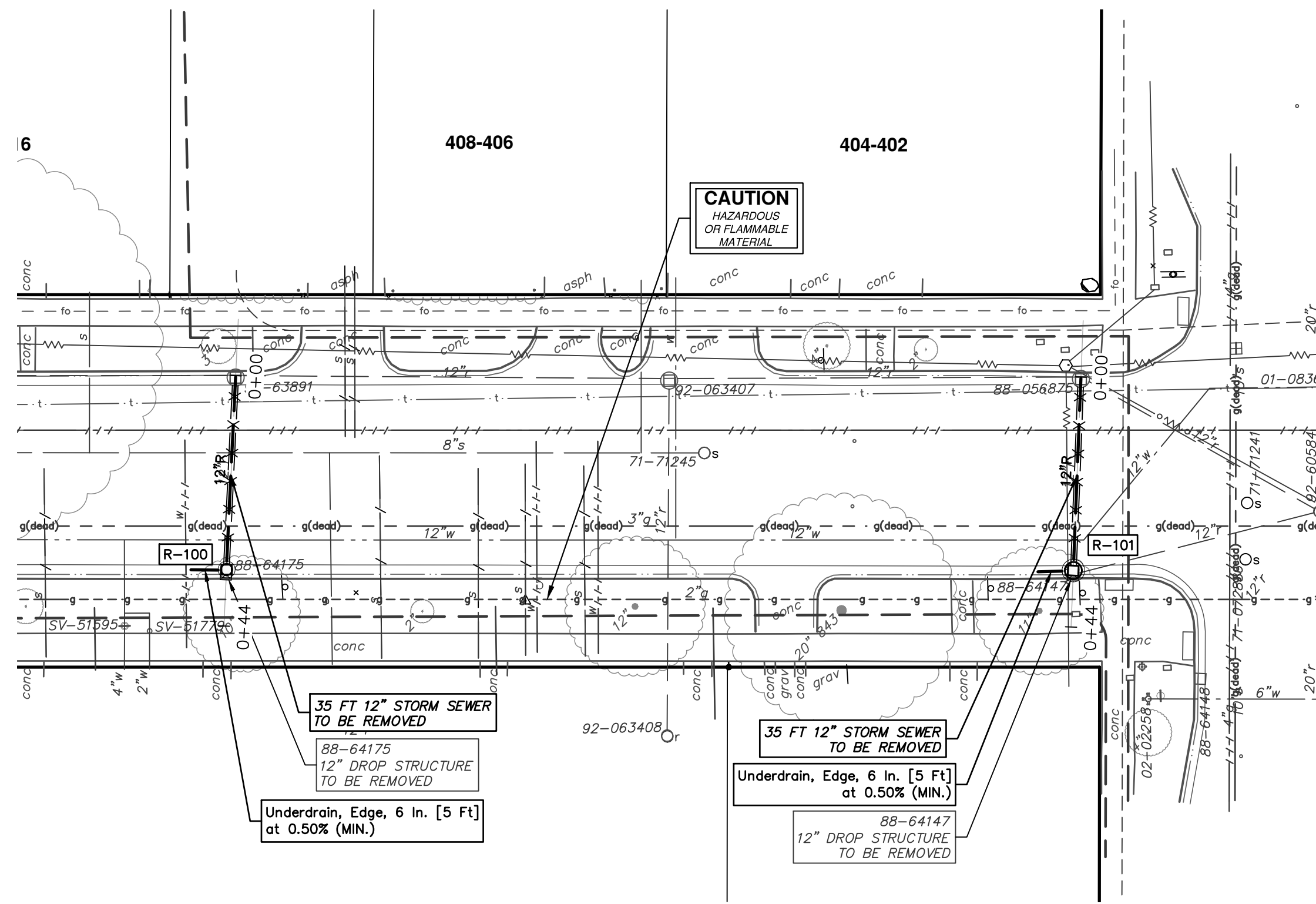
2025 MISCELLANEOUS UTILITY PROJECTS

WATER MAIN - S FIFTH AVE

STA. 0+81 - STA. 3+01

SHEET No. **51 OF 52**

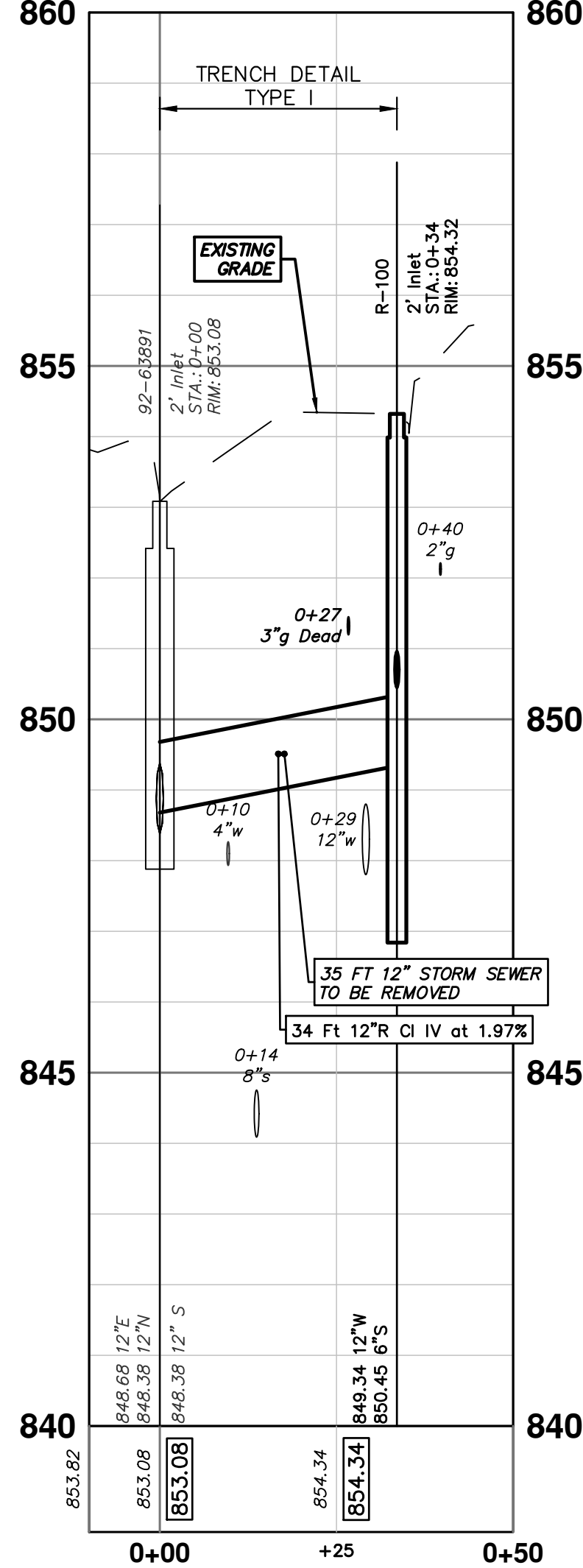
DRAWING No. **2024006-51**



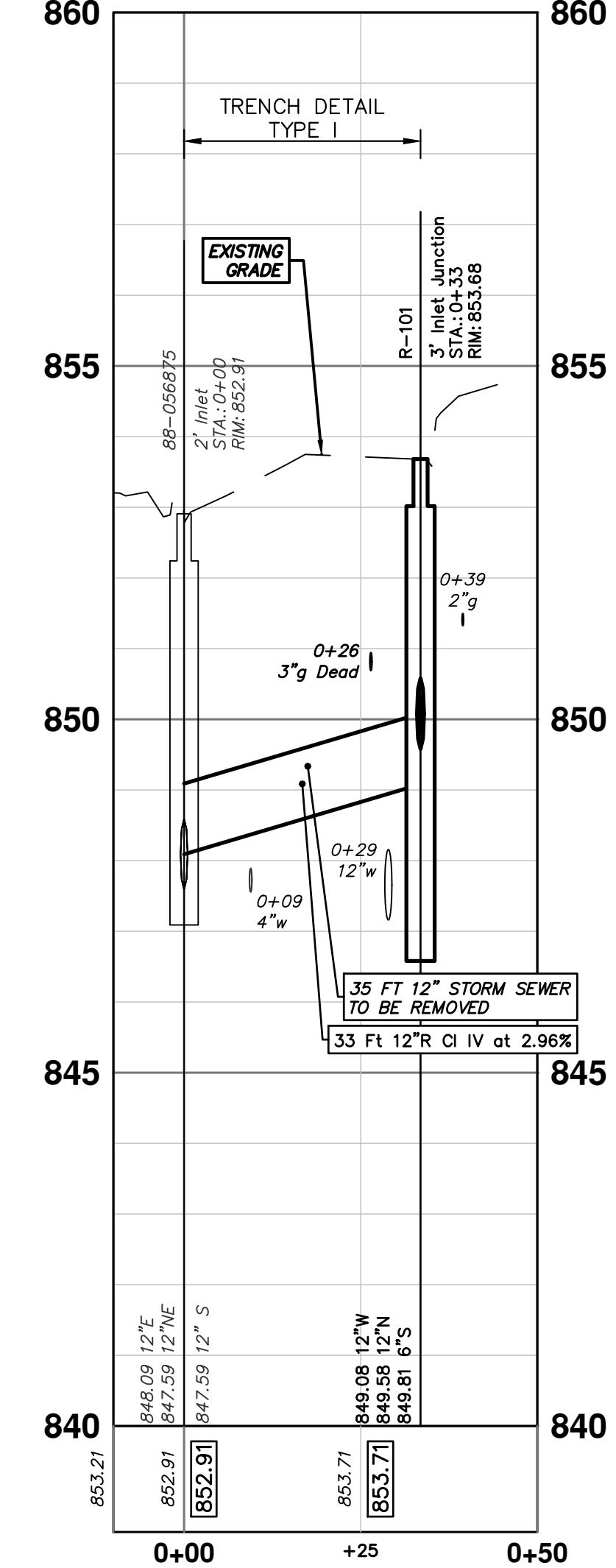
EXISTING STORM SEWER STRUCTURE REMOVAL TABLE

STRUCTURE	DEPTH (Feet)	REMOVE
88-64147	4.00	12" Drop Structure TO BE REMOVED
88-64175	4.70	12" Drop Structure TO BE REMOVED

92-63891 - R-100



88-056875 - R-101

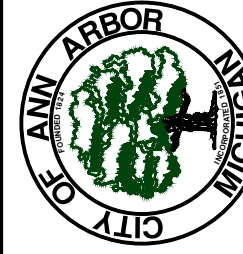


STORM SEWER STRUCTURE TABLE

STRUCTURE	UTILITY STATION	TYPE	RIM	INVERTS	DEPTH (Feet)	SUMP
R-100	0+34	2' Inlet	854.32	12" W 849.34 6" S 850.45	6.98	2'
R-101	0+33	3' Inlet Junction	853.68	12" W 849.08 12" N 849.58 6" S 849.81	6.60	2'



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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
2025 MISCELLANEOUS UTILITY PROJECTS
STORM - S FIFTH AVE
R-100, R-101

SCALE PLAN: 1" = 20'
PROFILE: 1" = 2'
DRAWING No. 2024006-52

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	BID SET	12/12/24	AZD	TA