

2023 STREET & UTILITY IMPROVEMENTS

(W WASHINGTON AVE, MAPLE ST, LINDEN ST, NORTH AVE, WESTVIEW ST)

VILLAGE OF CLEVELAND, MANITOWOC COUNTY, WI

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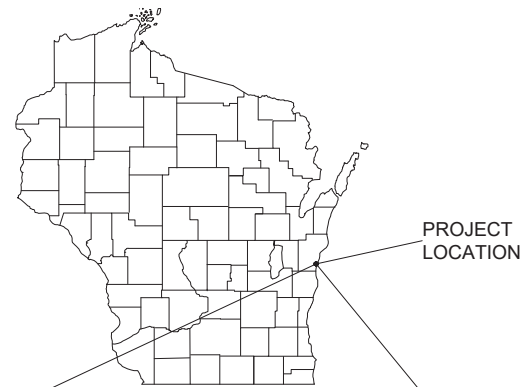
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- W — C — P — PROPOSED WATER SERVICE & CURB STOP
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- P — PROPERTY LINE
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- BENCHMARK
- IRON PIPE
- IRON ROD
- ▲ CONTROL POINT
- U — UTILITY POLE & GUY
- 1 0000,00 SOIL BORING
- ⊗ LIGHT POLE
- ⊗ PEDESTAL
- ⊗ STREET SIGN
- ⊗ MAILBOX
- ⊗ FLAGPOLE
- ⊗ TREE - DECIDUOUS
- ⊗ TREE - CONIFEROUS
- ⊗ TREE TO BE REMOVED

UTILITIES

- GAS:** WISCONSIN PUBLIC SERVICE (WPS)
ATTN: JOEL SAWICKI
800 COLUMBUS ST
TWO RIVERS, WI 54241-0236
OFFICE: 920-657-1862
CELL: 920-680-3181
EMAIL: JOEL.SAWICKI@WISCONSINPUBLICSERVICE.COM
- ELECTRIC:** WE ENERGIES
ATTN: NICOLE SMULLEN
333 W EVERETT ST, A299
MILWAUKEE, WI 53203
OFFICE: 414-221-5617
CELL: 414-460-7190
EMAIL: NICOLE.SMULLEN@WE-ENERGIES.COM
- TELEPHONE:** TDS TELECOM
ATTN: JEREMIAH LUBEN
229 E GREEN BAY ST
BONDUEL, WI 54107
OFFICE: 715-758-6583
CELL: 920-850-2987
EMAIL: JEREMIAH.LUBEN@TDSTELECOM.COM
- SEWER & WATER:** VILLAGE OF CLEVELAND
ATTN: CHRIS JOST
OFFICE: 920-693-8181
CELL: 920782-0249
EMAIL: CJOST@CLEVELANDWI.GOV
- CATV:** CHARTER COMMUNICATIONS
ATTN: CHARLES BRASILE
1320 N DR MARTIN LUTHER KING JR DR
MILWAUKEE, WI 53212
OFFICE: 414-908-4822
CELL: 414-430-5812
EMAIL: CHARLES.BRASILE@CHARTER.COM



PROJECT LOCATION



LOCATION MAP

NOT TO SCALE

DIGGERS HOTLINE
Dial 811 or (800) 242-8511
www.DiggersHotline.com

NOTE:
UTILITY LOCATIONS SHOWN ON PLANS ARE APPROXIMATE AND CONTRACTOR SHALL HAVE APPROPRIATE UTILITY MARK EXACT LOCATIONS PRIOR TO CONSTRUCTION.

PROJECT DATE:	DRAWN BY:	EAE	NO.	DATE	REVISION	BY:
February 22, 2023	DESIGNED BY:	DWR				
	CHECKED BY:	DWR				

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2023 STREET AND UTILITY IMPROVEMENTS
VILLAGE OF CLEVELAND
MANITOWOC COUNTY, WI

TITLE SHEET

FILE NO.
08002035
SHEET
G 1



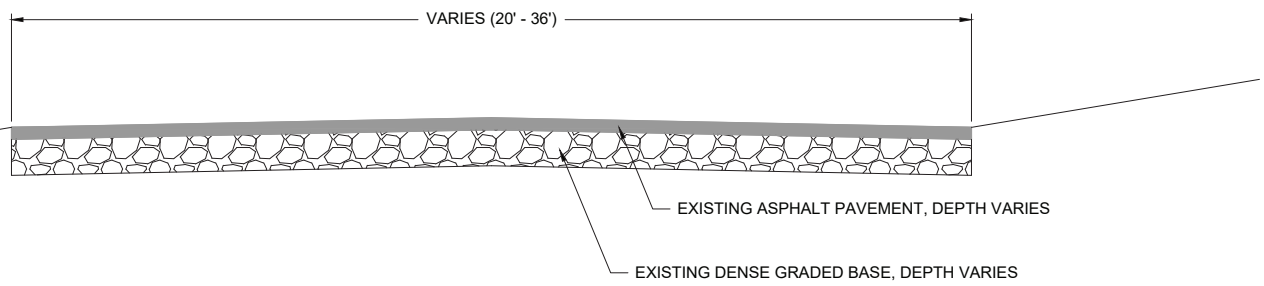
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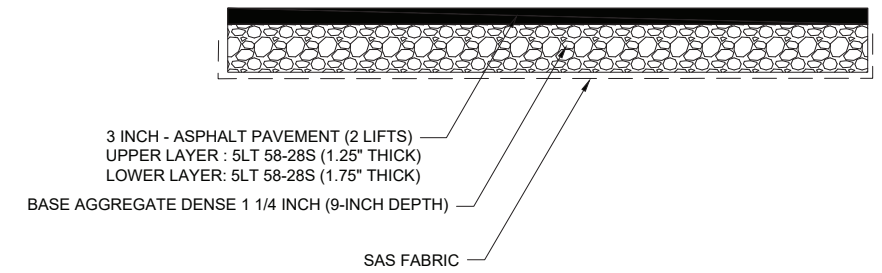
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VILLAGE OF CLEVELAND
MANITOWOC COUNTY, WI

OVERALL LAYOUT SHEET

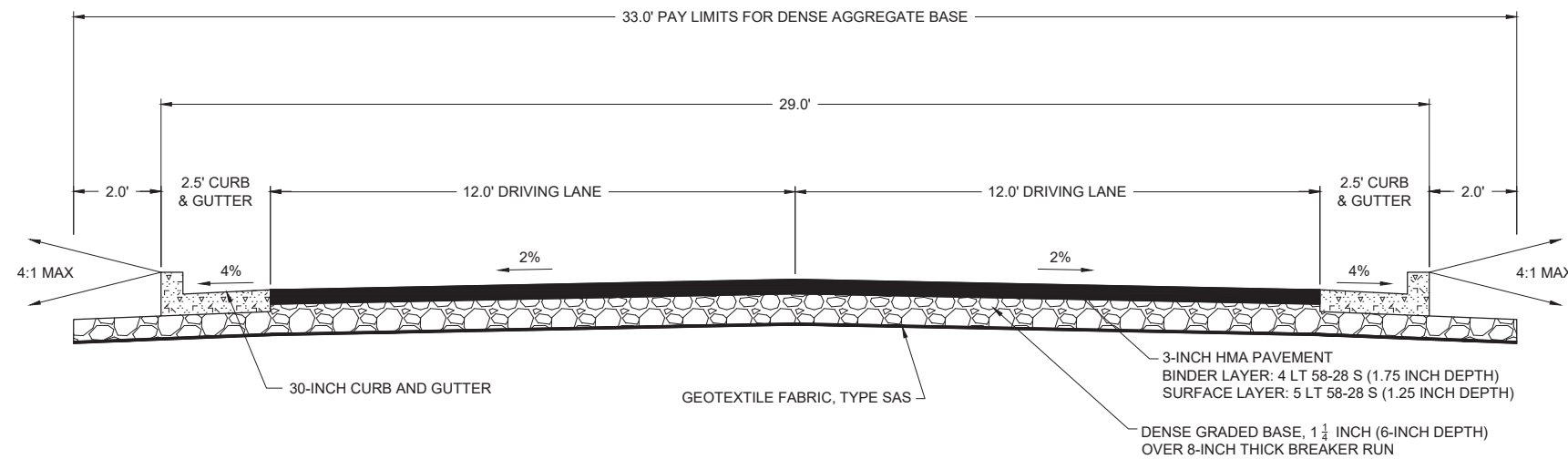
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EXISTING W WASHINGTON AVENUE, MAPLE STREET & LINDEN STREET TYPICAL SECTION
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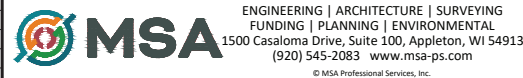
PAVEMENT REPAIR SECTION
NO SCALE



PROPOSED W WASHINGTON AVENUE, MAPLE STREET & LINDEN STREET TYPICAL SECTION
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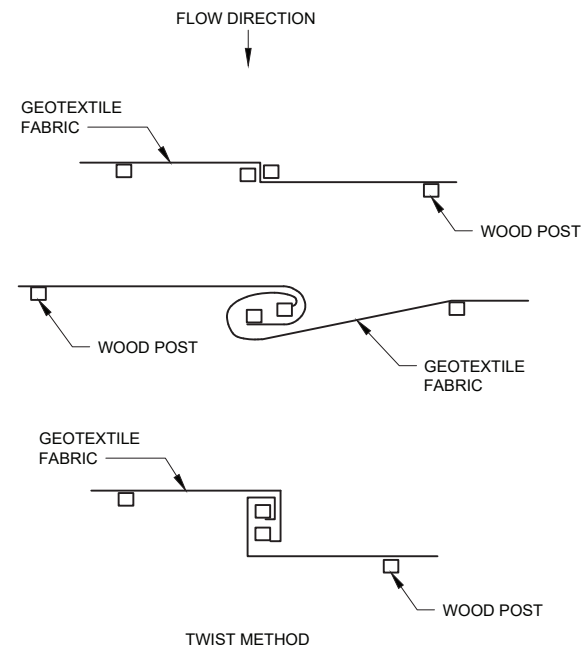


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VILLAGE OF CLEVELAND
MANITOWOC COUNTY, WI

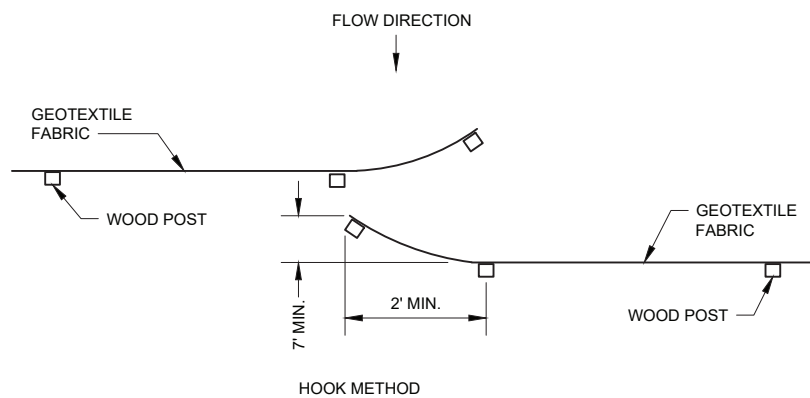
TYPICAL CROSS SECTIONS

FILE NO.
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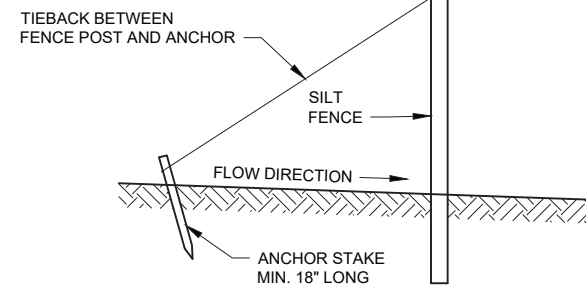
**CONSTRUCTION SITE
EROSION CONTROL REQUIREMENTS**



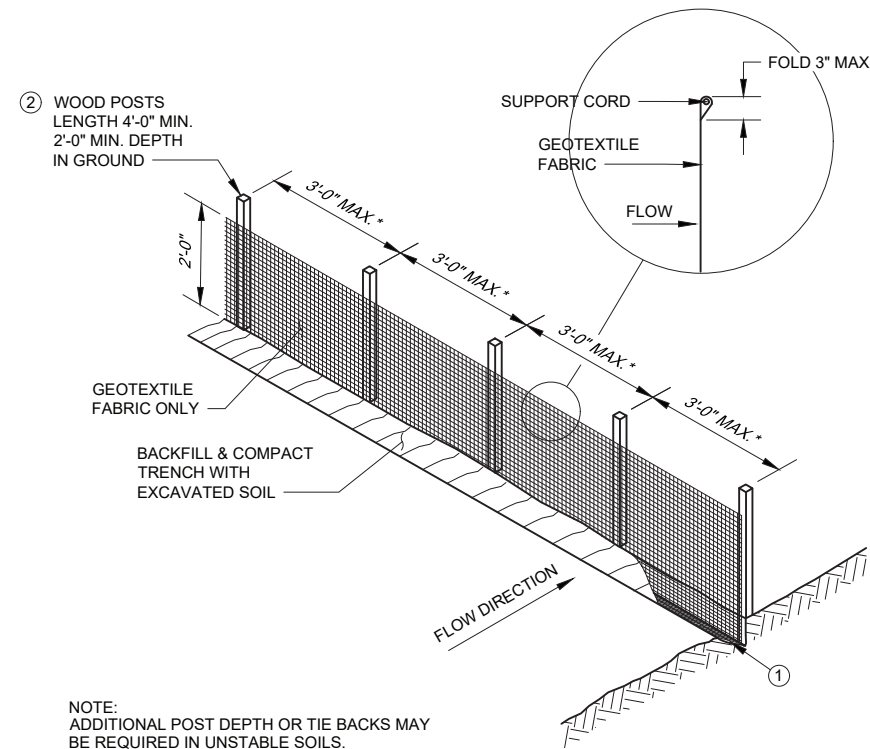
JOINING TWO LENGTHS OF SILT FENCE ③



HOOK METHOD



**SILT FENCE TIE BACK
(WHEN REQUIRED BY THE ENGINEER)**



SILT FENCE

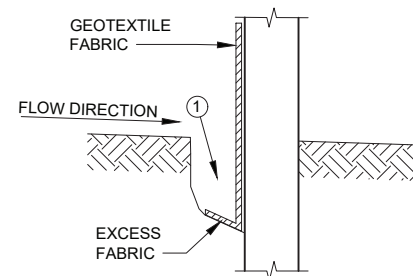
NOTE:
ADDITIONAL POST DEPTH OR TIE BACKS MAY BE REQUIRED IN UNSTABLE SOILS.

* 8'-0" POST SPACING ALLOWED IF A WOVEN GEOTEXTILE FABRIC IS USED, OR IF THE SILT FENCE IS FACTORY ASSEMBLED.

ATTACH THE FABRIC TO THE POSTS WITH WIRE STAPLES OR WOODEN LATH AND NAILS.

GENERAL NOTES

- TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- WOOD POSTS SHALL BE A MINIMUM SIZE OF 1 1/8" x 1 1/8" OF OAK OR HICKORY.
- CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS: A) TWIST METHOD -- OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK METHOD -- HOOK THE END OF EACH SILT FENCE LENGTH.



TRENCH DETAIL

- SECTION NR216.46 OF WISCONSIN STATE ADMINISTRATIVE CODE IDENTIFIES REQUIREMENTS FOR CONSTRUCTION SITE AND POST-CONSTRUCTION EROSION CONTROL. IT IS THE INTENT OF THESE PLANS TO SATISFY THESE REQUIREMENTS. THE METHODS AND STRUCTURES USED TO CONTROL EROSION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL IMPLEMENT AN APPROPRIATE MEANS OF CONTROLLING EROSION DURING SITE OPERATION AND UNTIL THE VEGETATION IS RE-ESTABLISHED. ADJUSTMENTS TO THE CONTROL SYSTEM SHALL BE MADE AS REQUIRED.
- ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE WISCONSIN DNR'S CONSERVATION PRACTICE STANDARDS. THESE STANDARDS ARE PERIODICALLY UPDATED AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN AND REFERENCE THE MOST RECENTLY RELEASED STANDARD.
- THIS INFORMATION IS ONLY ONE PART OF THE OVERALL EROSION CONTROL REQUIREMENTS. ADDITIONAL REQUIREMENTS MAY ALSO BE SHOWN ON THE CONTRACT DRAWINGS AND IN THE ACCOMPANYING SPECIFICATIONS.
- ADDITIONAL EROSION CONTROL MEASURES, AS REQUESTED IN WRITING BY THE STATE OR LOCAL INSPECTORS, OR THE OWNER'S ENGINEER, SHALL BE INSTALLED WITHIN 24 HOURS.
- THE AREA OF EROSION EXPOSED TO THE ELEMENTS BY GRUBBING, EXCAVATION, TRENCHING, BORROW AND FILL OPERATIONS AT ANY ONE TIME SHALL BE MINIMIZED TO THE MAXIMUM EXTENT PRACTICABLE. FOR ANY DISTURBED AREA THAT REMAINS INACTIVE FOR GREATER THAN 7 WORKING DAYS, OR WHERE GRADING WORK EXTENDS BEYOND THE PERMANENT SEEDING DEADLINES, THE SITE MUST BE TREATED WITH TEMPORARY STABILIZATION MEASURES SUCH AS SOIL TREATMENT, TEMPORARY SEEDING AND/OR MULCHING. ALL DISTURBED AREAS SHALL BE TREATED WITH PERMANENT STABILIZATION MEASURES WITHIN 3 WORKING DAYS OF FINAL GRADING.
- ALL EROSION CONTROL MEASURES AND STRUCTURES SERVING THE SITE MUST BE INSPECTED AT LEAST WEEKLY OR WITHIN 24 HOURS OF THE TIME 0.5 INCHES OF RAIN HAS OCCURRED. ALL NECESSARY REPAIR AND MAINTENANCE WILL BE DONE AT THIS INSPECTION TIME.
- ALL EROSION CONTROL DEVICES AND/OR STRUCTURES SHALL BE PROPERLY INSTALLED PRIOR TO CLEARING AND GRUBBING OPERATIONS WITHIN THEIR RESPECTIVE DRAINAGE AREAS. THESE SHALL BE PROPERLY MAINTAINED FOR MAXIMUM EFFECTIVENESS UNTIL VEGETATION IS RE-ESTABLISHED.
- ALL EROSION CONTROL DEVICES SHALL BE PROPERLY INSTALLED PRIOR TO ANY SOIL DISTURBANCE.
- ANY SLOPES STEEPER THAN 3H:1V SHALL BE STAKED WITH EROSION CONTROL FABRIC UNLESS INDICATED ON THE PLAN.
- ALL WASTE AND UNUSED BUILDING MATERIALS (INCLUDING GARBAGE, DEBRIS, CLEANING WASTES, WASTEWATER, TOXIC MATERIALS, OR HAZARDOUS MATERIALS) SHALL BE PROPERLY DISPOSED OF AND NOT ALLOWED TO BE CARRIED OFF-SITE BY RUNOFF OR WIND.
- WIND EROSION SHALL BE KEPT TO A MINIMUM DURING CONSTRUCTION. WATERING, MULCH, OR A TACKING AGENT MAY BE REQUIRED TO PROTECT NEARBY RESIDENCES AND WATER RESOURCES.
- CHANNELIZED RUNOFF ENTERING THE PROJECT SITE FROM ADJOINING LANDS SHALL BE DIVERTED THROUGH NATURALLY OR ARTIFICIALLY EROSION-RESISTANT CONVEYANCES. IF CHANNELIZED RUNOFF CANNOT BE DIVERTED, SITE BEST MANAGEMENT PRACTICES MUST ACCOUNT FOR THE ADDITIONAL FLOW RATES AND EROSION POTENTIAL THAT SUCH RUNOFF PRESENTS.
- THE CONTRACTOR SHALL TAKE ALL POSSIBLE PRECAUTIONS TO PREVENT SOILS FROM BEING TRACKED ONTO PUBLIC OR PRIVATE ROADWAYS. PAVED SURFACES ADJACENT TO CONSTRUCTION SITE VEHICLE ACCESS SHALL BE SWEEPED AND/OR SCRAPPED (NOT FLUSHED) PERIODICALLY TO REMOVE SOIL, DIRT, AND/OR DUST.
- EROSION CONTROLS SHALL BE INSTALLED ON THE DOWNSTREAM SIDE OF TEMPORARY STOCKPILES. ANY SOIL STOCKPILE THAT REMAINS FOR MORE THAN 30 DAYS SHALL BE COVERED OR TREATED WITH STABILIZATION PRACTICES SUCH AS TEMPORARY OR PERMANENT SEEDING AND MULCHING. ALL STOCK PILES SHALL BE PLACED AT LEAST 75 FEET FROM STREAMS OR WETLANDS.
- ADDITIONAL EROSION CONTROL FOR UTILITY CONSTRUCTION (STORM SEWER, SANITARY SEWER, WATER MAIN, ETC.) SHALL INCLUDE THE FOLLOWING:
 - PLACE EXCAVATED TRENCH MATERIAL ON THE HIGH SIDE OF THE TRENCH.
 - BACKFILL, COMPACT, AND STABILIZE THE TRENCH IMMEDIATELY AFTER PIPE CONSTRUCTION.
 - DISCHARGE OF TRENCH WATER OR DEWATERING EFFLUENT MUST BE PROPERLY TREATED TO REMOVE SEDIMENT IN ACCORDANCE WITH THE WDNR CONSERVATION PRACTICE STANDARD 1061 - DEWATERING OR A SUBSEQUENT WDNR DEWATERING STANDARD PRIOR TO DISCHARGE INTO A STORM SEWER, DITCH, DRAINAGEWAY, OR WETLAND OR LAKE.
- ALL DRAINAGE CULVERTS, STORM DRAIN INLETS, MANHOLES, OR ANY OTHER EXISTING STRUCTURES THAT COULD BE DAMAGED BY SEDIMENTATION SHALL BE PROTECTED ACCORDING TO THE VARIOUS METHODS PROVIDED IN THE PRINTED CONSERVATION PRACTICE STANDARDS.
- ANY SOIL EROSION THAT OCCURS AFTER FINAL GRADING AND/OR STABILIZATION MUST BE REPAIRED AND THE STABILIZATION WORK REDONE.
- THE FIRST SIX WEEKS AFTER INITIAL STABILIZATION, ALL NEWLY SEEDED AND MULCHED AREAS SHALL WATERED WHENEVER 7 DAYS ELAPSE WITHOUT A RAIN EVENT.
- WHEN THE DISTURBED AREA HAS BEEN STABILIZED BY PERMANENT VEGETATION OR OTHER MEANS, TEMPORARY BMP'S SUCH AS SILT FENCES, STRAW BALES, AND SEDIMENT TRAPS SHALL BE REMOVED AND THESE AREAS STABILIZED.
- ALL TEMPORARY BEST MANAGEMENT PRACTICES SHALL BE MAINTAINED UNTIL THE SITE IS STABILIZED.
- ALL DISTURBED AREAS SHALL BE PERMANENTLY STABILIZED WITH SEED AND MULCH UNLESS OTHERWISE SPECIFIED. A MINIMUM OF FOUR INCHES OF TOPSOIL SHALL BE APPLIED TO ALL AREAS TO BE SEEDED OR SODDED.

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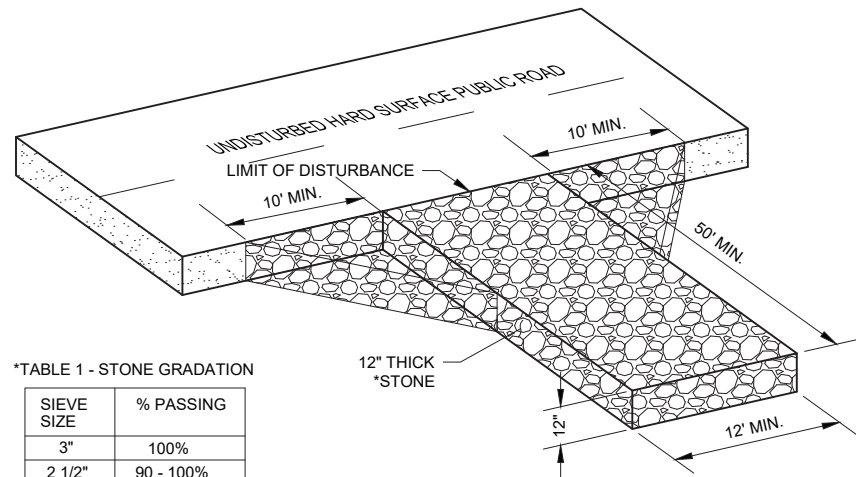
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**2023 STREET AND UTILITY IMPROVEMENTS
VILLAGE OF CLEVELAND
MANITOWOC COUNTY, WI**

EROSION CONTROL DETAILS

FILE NO.
08002035
SHEET
G 4

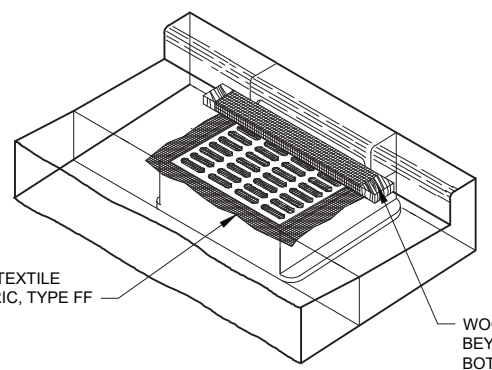


*TABLE 1 - STONE GRADATION

SIEVE SIZE	% PASSING
3"	100%
2 1/2"	90 - 100%
1 1/2"	25 - 60%
3/4"	0 - 20%
3/8"	0 - 5%

- NOTES:
1. TRACKING PAD WIDTH SHALL BE AT LEAST THE FULL WIDTH OF THE EGRESS POINT OR 12' WIDE MINIMUM.
 2. TRACKING PAD LENGTH SHALL BE 50' FOR CONSTRUCTION SITES, 30' FOR SINGLE FAMILY RESIDENTIAL, OR AS SPECIFIED IN THE CONTRACT DOCUMENTS. LENGTH OF TRACKING PAD MAY NEED TO BE INCREASED OR ADDITIONAL SEDIMENT CONTROL PRACTICES SHALL BE INSTALLED BY THE CONTRACTOR IF SEDIMENT TRACK-OUT OCCURS.
 3. GEOTEXTILE FABRIC TYPE R SHALL BE INSTALLED BETWEEN THE STONE AND SUBGRADE ON SITES WHERE HIGH GROUND WATER IS OBSERVED.
 4. CONTRACTOR SHALL CLEAN STREET/ROADWAY ADJACENT TO ALL CONSTRUCTION ACCESS POINTS AT THE END OF EACH WORKDAY OR MORE FREQUENTLY IF REQUESTED.

VEHICLE TRACKING PAD
NO SCALE



GEOTEXTILE FABRIC, TYPE FF

WOOD 2" x 4" EXTENDS 8" BEYOND GRATE WIDTH ON BOTH SIDES, LENGTH VARIES. SECURE TO GRATE WITH WIRE OR PLASTIC TIES

INSTALLATION NOTES:

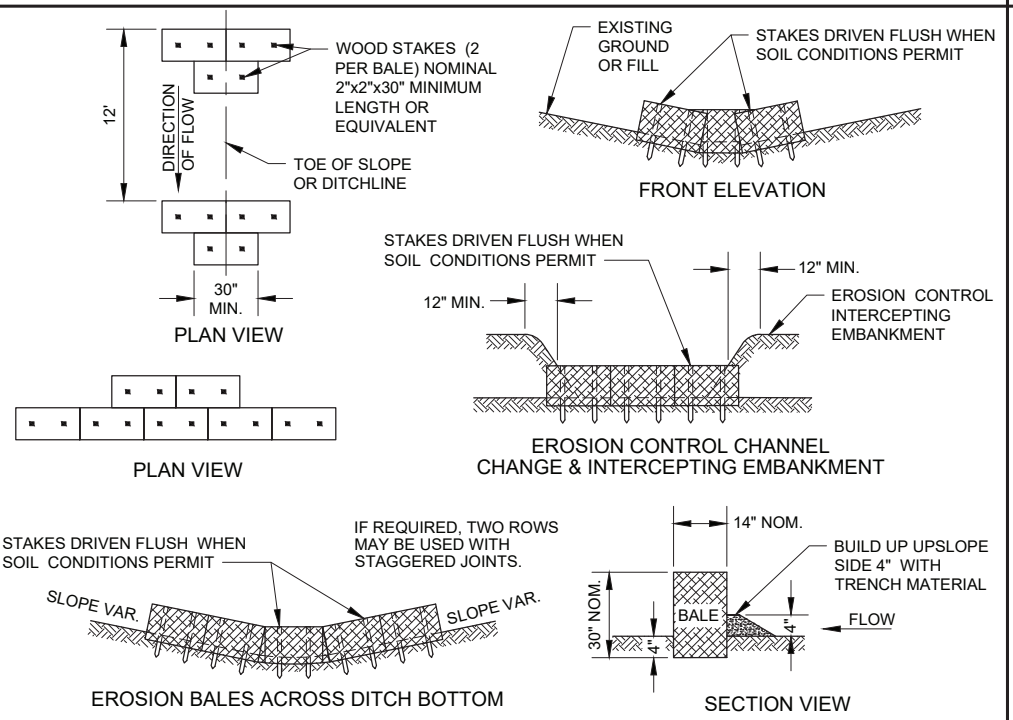
TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE. THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

INLET PROTECTION, TYPE C
NO SCALE

GENERAL NOTES - INLET PROTECTION

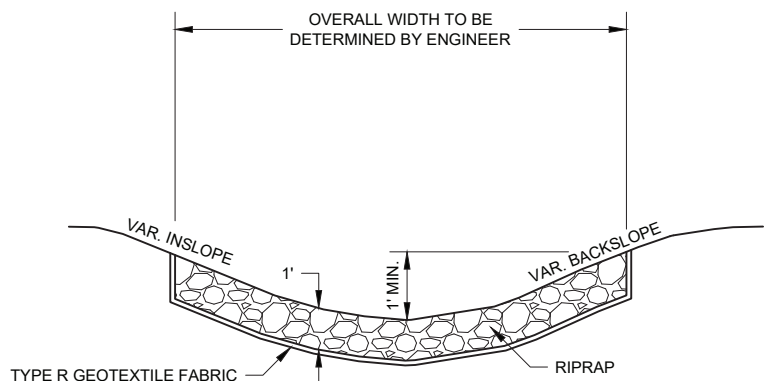
INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER. MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED. WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

1. FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.
2. FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.
3. FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

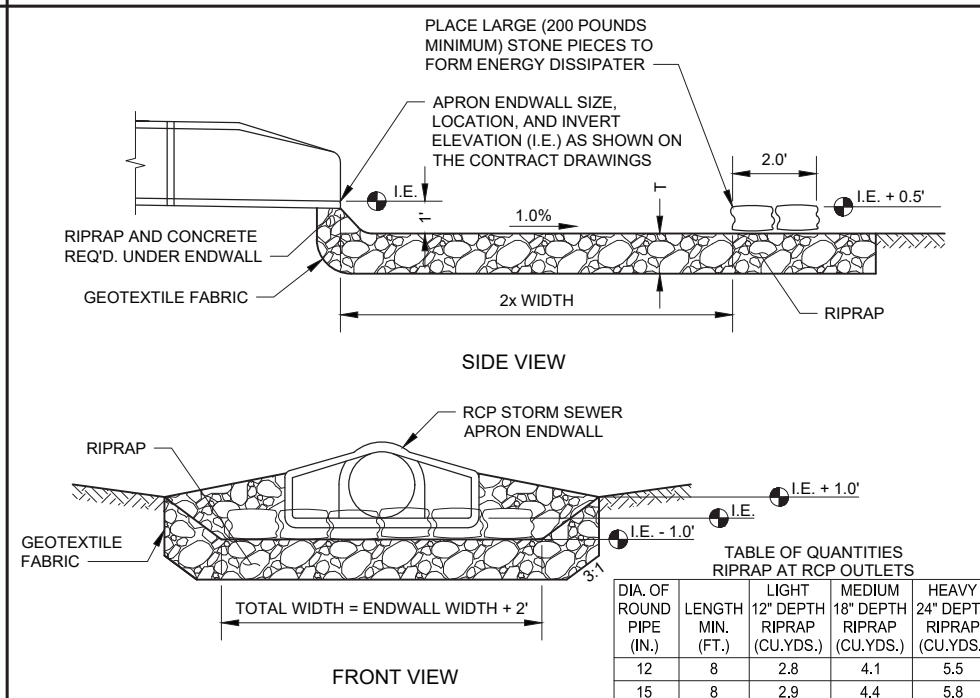


- GENERAL NOTES:
1. DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE SPECIFICATIONS.
 2. BALES SHALL BE PLACED END TO END OR OVERLAPPING AT RIGHT ANGLES TO THE DIRECTION OF FLOW. BALES SHALL EXTEND FAR ENOUGH UP THE SLOPES TO PREVENT ERODING AROUND ENDS.
 3. BALES SHALL BE PLACED WITH TWINE OR TIE WIRES PARALLEL TO THE GROUND.
 4. STAKES TO BE BATTERED IN OPPOSITE DIRECTIONS.
 5. BALES SHALL BE EMBEDDED 4 INCHES MINIMUM.

EROSION BALES IN DRAINAGE WAY DETAIL
NO SCALE



TYPICAL RIPRAP INSTALLATION
NO SCALE



- GENERAL NOTES:
1. DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE SPECIFICATIONS.
 2. THE RIPRAP CLASS AND GEOTEXTILE FABRIC TYPE SHALL BE AS SHOWN ON THE PLANS AND REQUIRED IN THE SPECIFICATIONS.

TABLE OF QUANTITIES RIPRAP AT RCP OUTLETS

DIA. OF ROUND PIPE (IN.)	LENGTH (FT.)	12" DEPTH RIPRAP (CU.YDS.)	18" DEPTH RIPRAP (CU.YDS.)	24" DEPTH RIPRAP (CU.YDS.)
12	8	2.8	4.1	5.5
15	8	2.9	4.4	5.8
18	10	3.9	5.9	7.8
21	10	4.2	6.3	8.4
24	12	5.5	8.3	11.0
27	12	5.8	8.7	11.6
30	14	7.3	10.9	14.5
36	16	9.2	13.8	18.3
42	18	10.9	16.3	21.7
48	20	12.9	19.4	25.8

STORM SEWER OUTFALL DETAIL
NO SCALE

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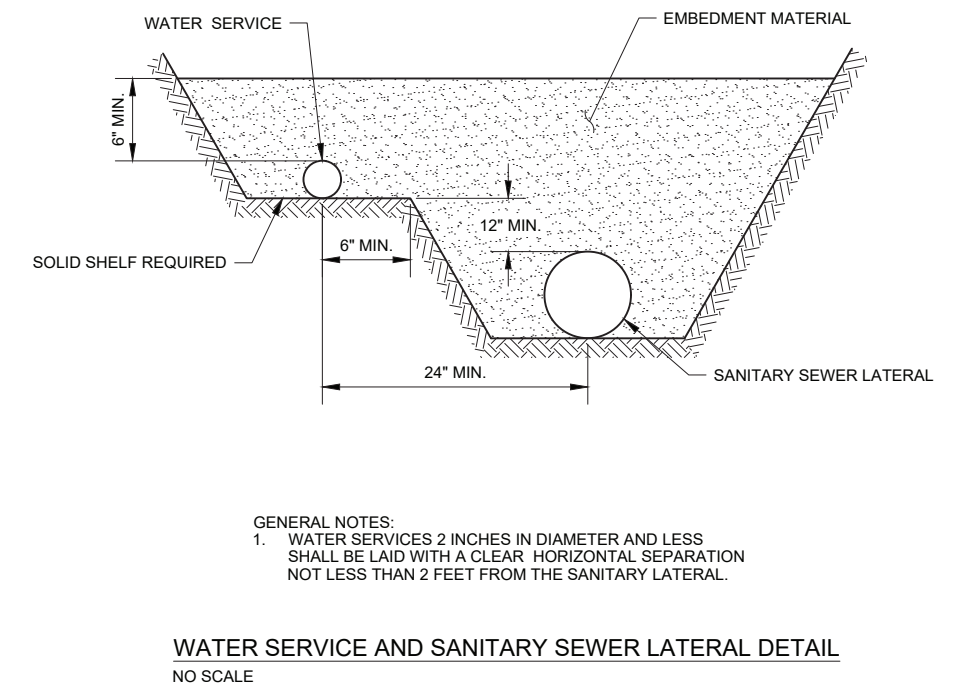
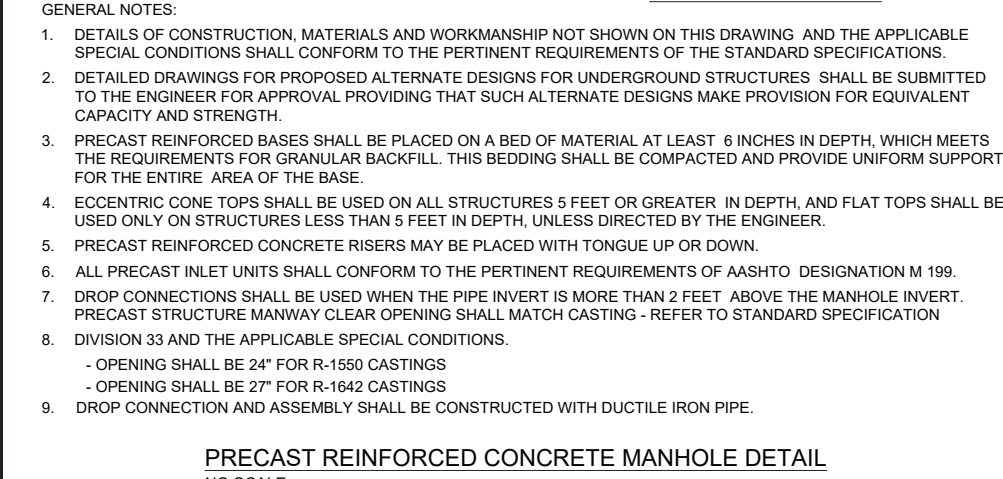
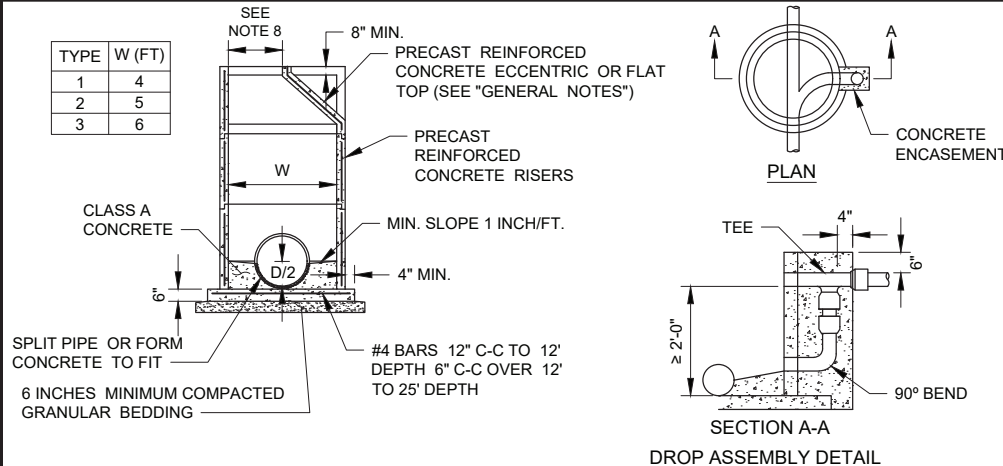
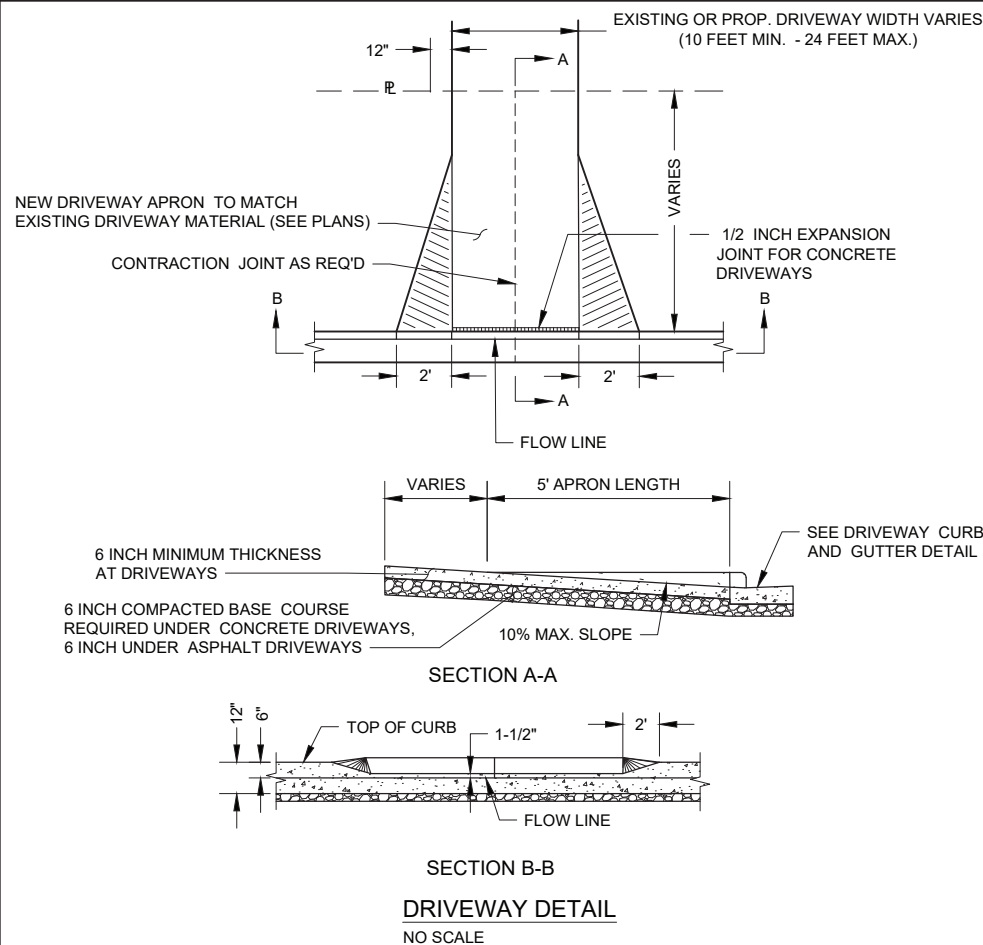
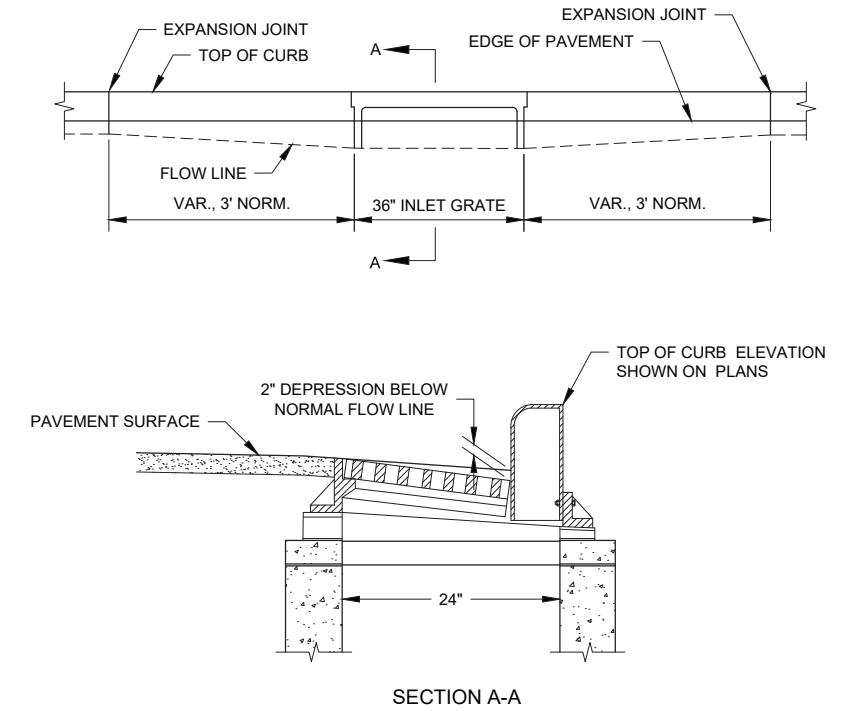
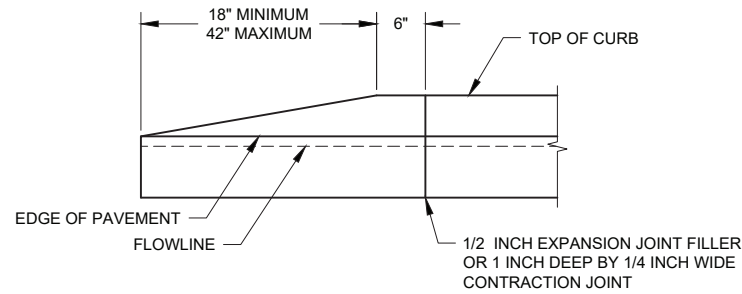
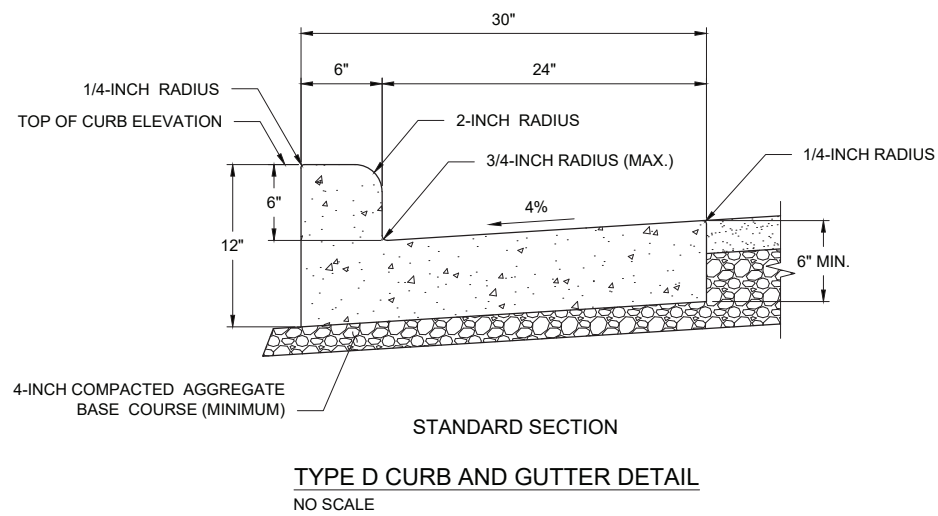
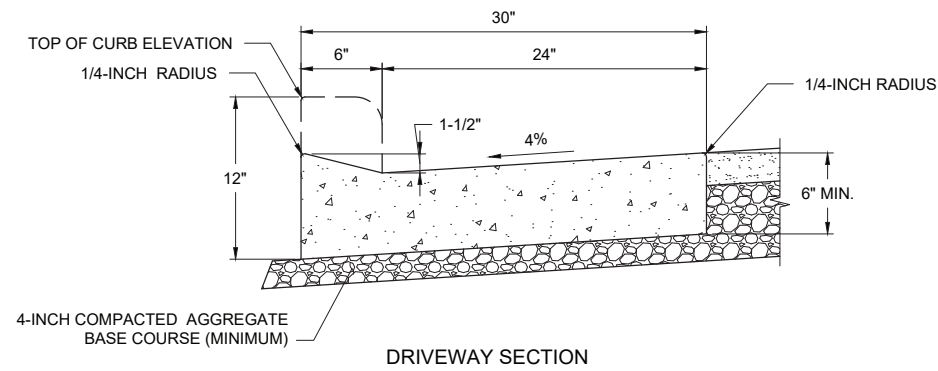


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VILLAGE OF CLEVELAND
MANITOWOC COUNTY, WI

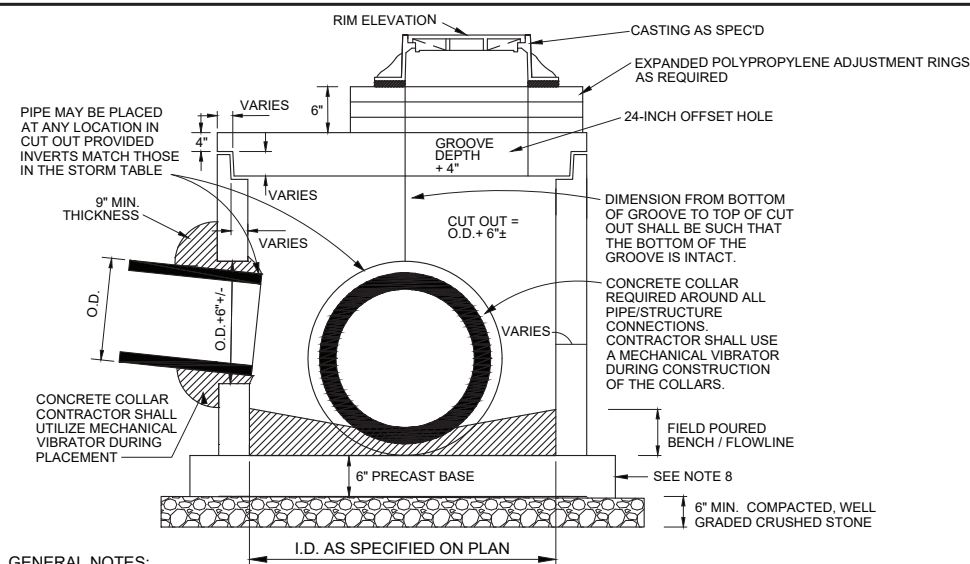
EROSION CONTROL DETAILS

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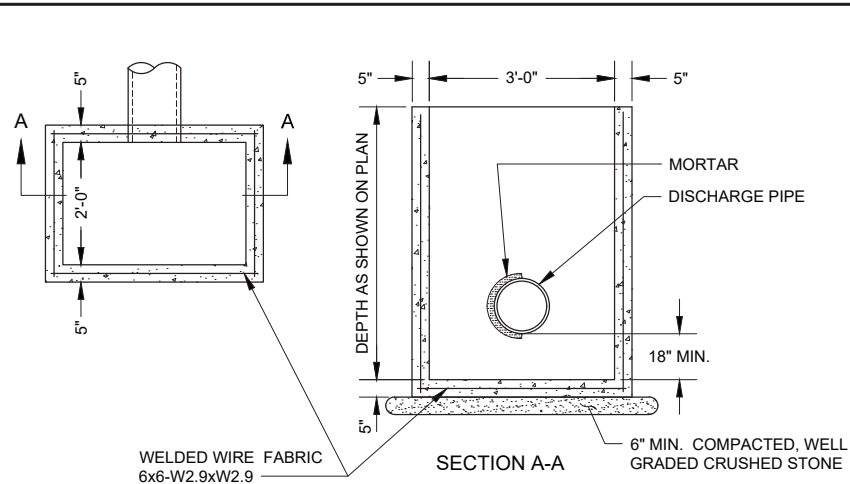
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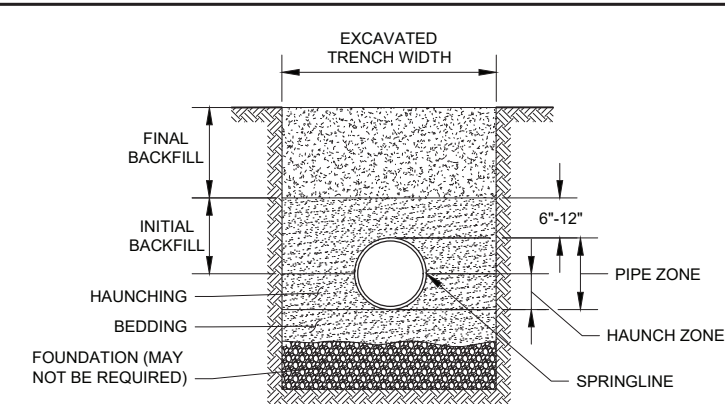
- GENERAL NOTES:**
- SEE PLANS FOR SIZE, NUMBER, AND LOCATION OF PIPES.
 - DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE SPECIFICATIONS.
 - DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.
 - ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199.
 - PRECAST REINFORCED BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS FOR WELL GRADED CRUSHED STONE. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.
 - ALL BAR STEEL AND WELDED WIRE FABRIC REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.
 - PRECAST REINFORCED CONCRETE RISERS SHALL BE PLACED WITH TONGUE DOWN.
 - OVERHANGING BASE NOT REQUIRED WHERE INTEGRAL BASE IS ALLOWED. SEE SPECIAL PROCEDURES OR CONTACT ENGINEER TO VERIFY.

STORM MANHOLE DETAIL
NO SCALE



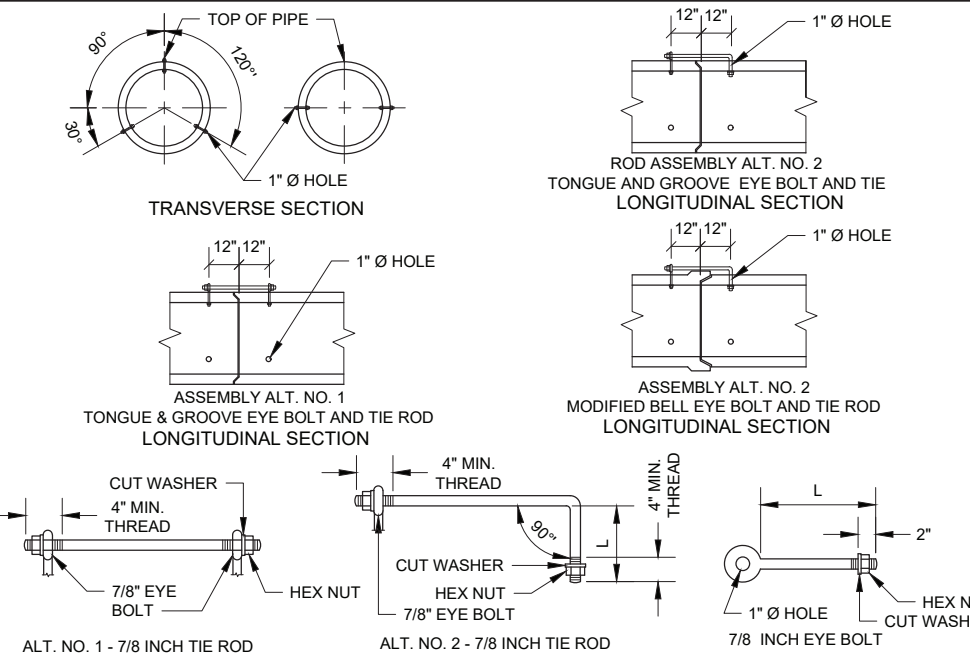
- GENERAL NOTES:**
- SEE PLANS FOR SIZE, NUMBER, AND LOCATION OF PIPES.
 - DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE SPECIFICATIONS.
 - DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.
 - ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199.
 - PRECAST REINFORCED BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS FOR WELL GRADED CRUSHED STONE. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.
 - PRECAST REINFORCED CONCRETE FLAT SLAB TOPS MAY BE USED ON THE STRUCTURES. THE TOPS SHALL BE INSTALLED ON A BED OF MORTAR.
 - ALL BAR STEEL AND WELDED WIRE FABRIC REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.
 - PRECAST REINFORCED CONCRETE RISERS SHALL BE PLACED WITH TONGUE DOWN.

2' x 3' INLET WITH SUMP DETAIL
NO SCALE



- GENERAL NOTES:**
- DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO ASTM D2321.
 - CLASS II EMBEDMENT MATERIAL SHALL BE CLEAN, COARSE-GRAINED SOILS WITH LITTLE TO NO FINES. NO PARTICLES LARGER THAN 1 1/2 INCHES SHALL BE USED IN THE PIPE EMBEDMENT.
 - WHERE HYDRAULIC GRADIENT EXISTS USE A WELL-GRADED MIXTURE TO MINIMIZE MIGRATION OF FINES FROM ADJACENT SOIL.
 - CLASS II MATERIAL IS SUITABLE AS A FOUNDATION AND FOR REPLACING OVER-EXCAVATED AND UNSTABLE TRENCH BOTTOM. INSTALL AND COMPACT IN 6-INCH MAXIMUM LAYERS.
 - INSTALL AND COMPACT BEDDING IN 6-INCH MAXIMUM LAYERS. LEVEL FINAL GRADE BY HAND. MINIMUM DEPTH 4 INCH (6 INCH IN ROCK CUTS.)
 - INSTALL AND COMPACT HAUNCHING IN 6-INCH MAXIMUM LAYERS. WORK IN AROUND PIPE BY HAND TO PROVIDE UNIFORM SUPPORT.
 - INSTALL AND COMPACT INITIAL BACKFILL TO A MINIMUM OF 6 INCH ABOVE PIPE CROWN.
 - EMBEDMENT COMPACTION:
MINIMUM DENSITY 85% STANDARD PROCTOR. USE HAND TAMPERS OR VIBRATORY COMPACTORS.

CLASS II - FLEXIBLE PIPE EMBEDMENT DETAIL
NO SCALE

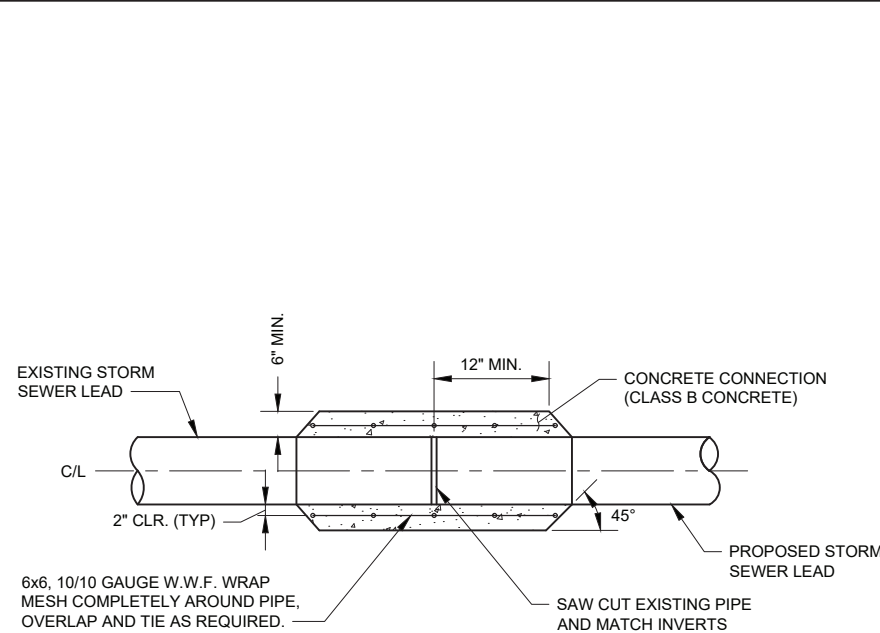


EYE BOLT DIMENSION TABLE

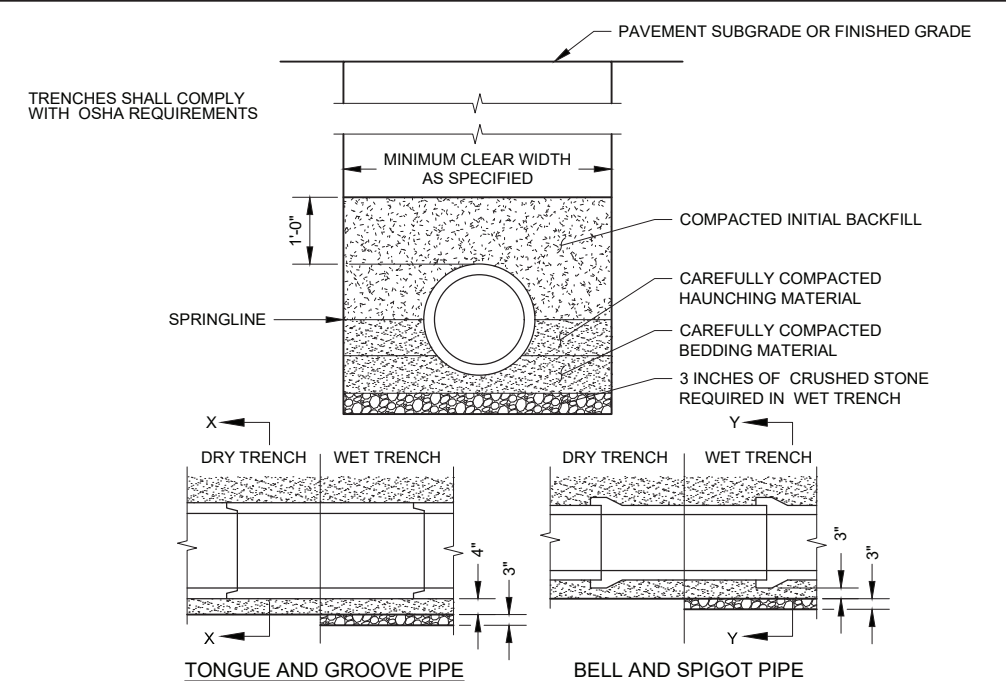
PIPE SIZE (INCHES)	LENGTH, L (INCHES)	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18 TO 24	4 1/2	5 1/2
30	5	7
36	5 1/2	7
42	5	
48	6 1/2	
60	7 1/2	
72	8 1/2	

- GENERAL NOTES:**
- CONCRETE CULVERT PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED ON THE PLAN OR AS DIRECTED BY THE ENGINEER.
 - DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
 - HOLES SHALL BE FILLED WITH A NON-SHRINK GROUT OR A NON-SHRINK EPOXY GROUT AS DIRECTED BY THE ENGINEER.
 - BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

CONCRETE PIPE JOINT TIE DETAIL
NO SCALE



STORM SEWER CONNECTION DETAIL
NO SCALE

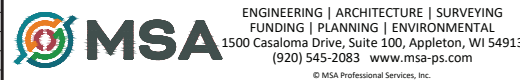


- GENERAL NOTES:**
- BEDDING AND HAUNCHING MATERIAL SHALL BE WELL-GRADED 3/4 TO 1/4 INCH CRUSHED STONE OR OTHER NON-COHESIVE MATERIAL NOT SUBJECT TO MIGRATION AND FREE OF DEBRIS, ORGANIC MATERIAL, AND LARGE STONES.
 - BEDDING MATERIAL TO BE PLACED BEFORE SETTING PIPE, 4 INCH MINIMUM UNDER BARREL WITH 3 INCH MINIMUM UNDER BELL.
 - INITIAL BACKFILL SHALL BE DENSELY COMPACTED, NON-COHESIVE FINELY DIVIDED MATERIAL FREE OF DEBRIS, ORGANIC MATERIAL, AND LARGE STONES.
 - IN ROCK OR OTHER UNCOMPRESSIBLE MATERIALS, THE TRENCH SHALL BE OVEREXCAVATED A MINIMUM OF 6-INCHES AND REFILLED WITH GRANULAR MATERIAL.

CLASS "B" EMBEDMENT FOR RIGID PIPE DETAIL
NO SCALE

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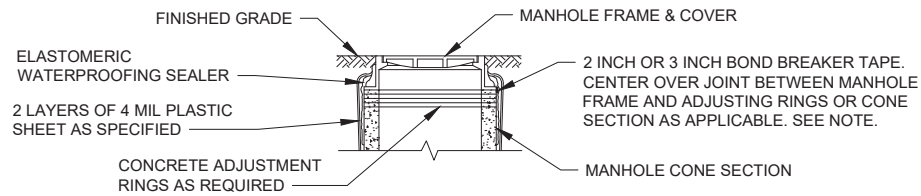
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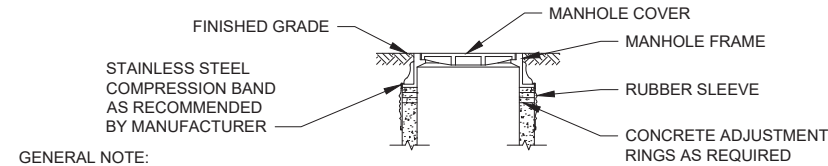
STORM SEWER DETAILS

FILE NO.
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THE BOND BREAKER TAPE IS TO PREVENT THE SEALER FROM BONDING TO THE EDGE OF THE FLANGE OF THE MH FRAME AND THE UPPER 1-1/2 INCHES OF ADJUSTING RING OR CONE. IF THE EDGE OF FLANGE IS NOT FLUSH WITH ADJUSTING RING OR CONE, APPLY ADDITIONAL TAPE AS REQUIRED TO PREVENT SUCH BONDING.

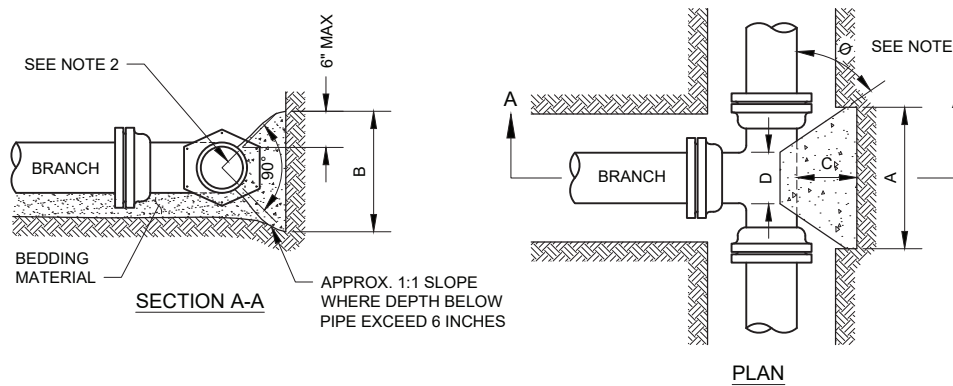
ELASTOMERIC FRAME/CHIMNEY SEAL



GENERAL NOTE:
THE SEAL SHALL EXTEND FROM THE CASTING TO THE CORBEL (CONE).
SEAL EXTENSIONS SHALL BE USED AS REQUIRED.

EXTERNAL RUBBER SLEEVE FRAME/CHIMNEY SEAL

MANHOLE WATERPROOFING DETAIL
NO SCALE



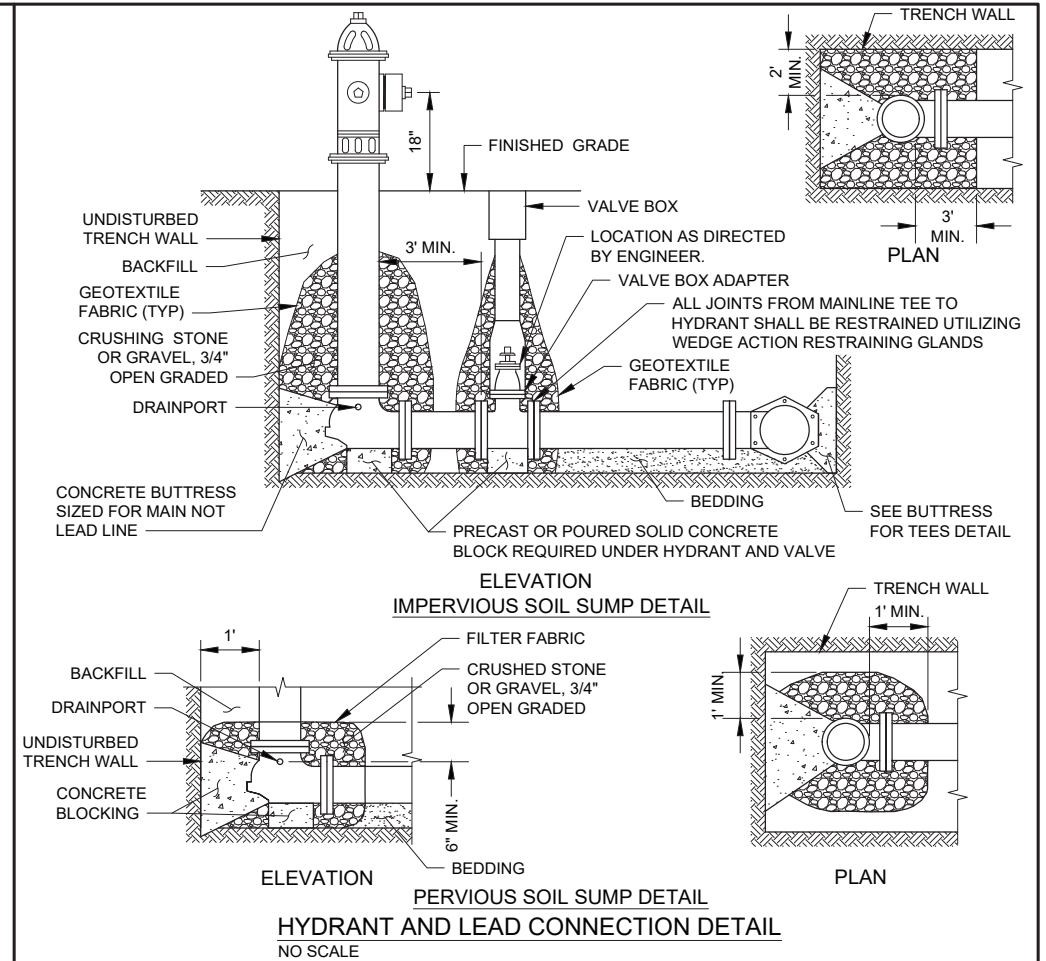
NOTES:

- DIMENSION 'C' SHOULD BE LARGE ENOUGH TO MAKE ANGLE θ GREATER THAN OR EQUAL TO 45°.
- CONCRETE SHOULD BEAR ON THIS QUADRANT OF PIPE AT A MINIMUM.
- DIMENSION 'D' SHOULD BE AS LARGE AS POSSIBLE BUT CONCRETE SHOULD NOT INTERFERE WITH MECHANICAL JOINTS.
- BUTTRESS DIMENSIONS ARE BASED ON A SOIL RESISTANCE OF TWO TONS PER SQ. FT. AND A WATER PRESSURE OF 150 PSI. INFORM THE ENGINEER IF ON-SITE SOIL DOES NOT MEET THIS CONDITION OR PRESSURES EXCEED 150 PSI.
- BUTTRESS TO BE PLACED AGAINST FIRM UNDISTURBED SOIL, OR DISTURBED SOIL COMPACTED TO 95% OF MODIFIED PROCTOR DENSITY, ASTM D1557.
- CONCRETE SHALL HAVE A MINIMUM 7-DAY COMPRESSIVE STRENGTH OF 2000 PSI.
- ALL POURED BUTTRESSED FITTINGS SHALL BE WRAPPED IN POLYETHYLENE.
- IN ADDITION TO BUTTRESSES, ALL JOINTS SURROUNDING TEES SHALL BE RESTRAINED WITH WEDGE ACTION RESTRAINING GLANDS.

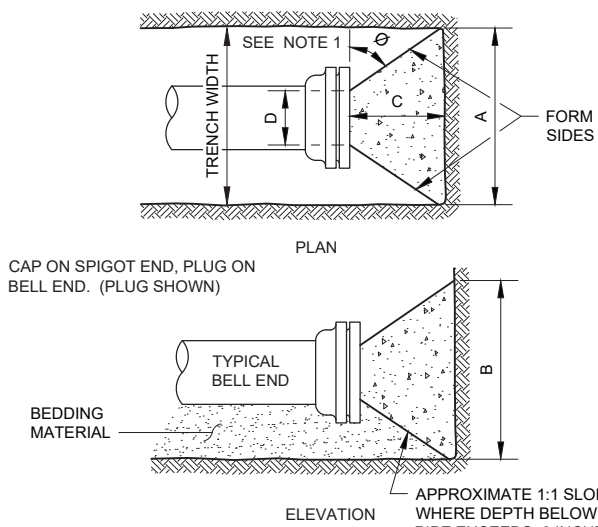
BUTTRESS DIMENSIONS				
DIA.	A	B	C	D
6"	1'-3"	1'-0"	SEE NOTE NO. 1	SEE NOTE NO. 3
8"	1'-6"	1'-4"		
10"	1'-10"	1'-8"	SEE NOTE NO. 1	SEE NOTE NO. 3
12"	2'-3"	2'-0"		
16"	3'-2"	2'-6"	SEE NOTE NO. 1	SEE NOTE NO. 3
20"	4'-0"	3'-0"		
24"	5'-3"	3'-4"	SEE NOTE NO. 1	SEE NOTE NO. 3

DIA. = BRANCH DIAMETER

BUTTRESS FOR TEES DETAIL
NO SCALE



HYDRANT AND LEAD CONNECTION DETAIL
NO SCALE

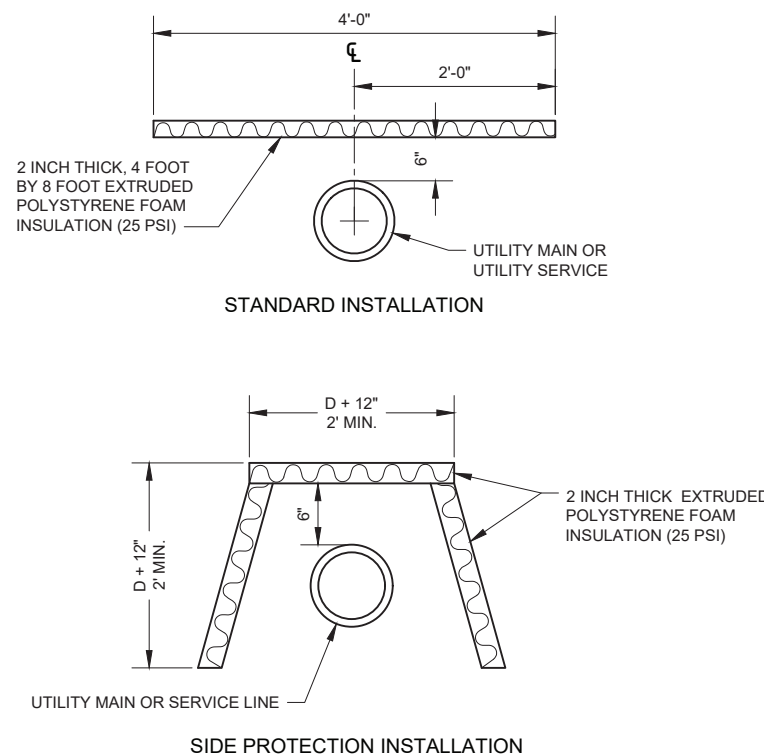


BUTTRESS DIMENSIONS				
DIA.	A	B	C	D
6"	1'-6"	1'-2"	SEE NOTE NO. 1	SEE NOTE NO. 2
8"	2'-0"	1'-4"		
12"	2'-5"	1'-10"	SEE NOTE NO. 1	SEE NOTE NO. 2
16"	3'-4"	2'-4"		
20"	4'-3"	2'-10"	SEE NOTE NO. 1	SEE NOTE NO. 2
24"	5'-2"	3'-4"		
30"	6'-9"	4'-0"	SEE NOTE NO. 1	SEE NOTE NO. 2

NOTES:

- DIMENSION 'C' SHOULD BE LARGE ENOUGH TO MAKE ANGLE θ EQUAL TO OR LARGER THAN 45°.
- DIMENSION 'D' EQUALS APPROX. I.D. OF PIPE LESS 2 INCHES. THE CONCRETE SHOULD NOT INTERFERE WITH THE MECHANICAL JOINTS.
- WHERE BUTTRESSES ARE NOT POSSIBLE BECAUSE OF POOR SOIL CONDITIONS OR LACK OF ROOM, WEDGE ACTION RESTRAINING GLANDS SHALL BE PERMITTED.
- BUTTRESS DIMENSIONS ARE BASED ON A SOIL RESISTANCE OF TWO TONS PER SQ. FT. AND A WATER PRESSURE OF 150 PSI. INFORM THE ENGINEER IF ON-SITE SOIL DOES NOT MEET THIS CONDITION OR PRESSURES EXCEED 150 PSI.
- BUTTRESS TO BE POURED AGAINST FIRM UNDISTURBED SOIL, OR DISTURBED SOIL COMPACTED TO 95% OF MODIFIED PROCTOR DENSITY, ASTM D1557.
- CONCRETE SHALL HAVE A MINIMUM 7-DAY COMPRESSIVE STRENGTH OF 2000 PSI.
- ALL POURED BUTTRESSED FITTINGS SHALL BE WRAPPED IN POLYETHYLENE.
- NO WOOD BUTTRESS ALLOWED.

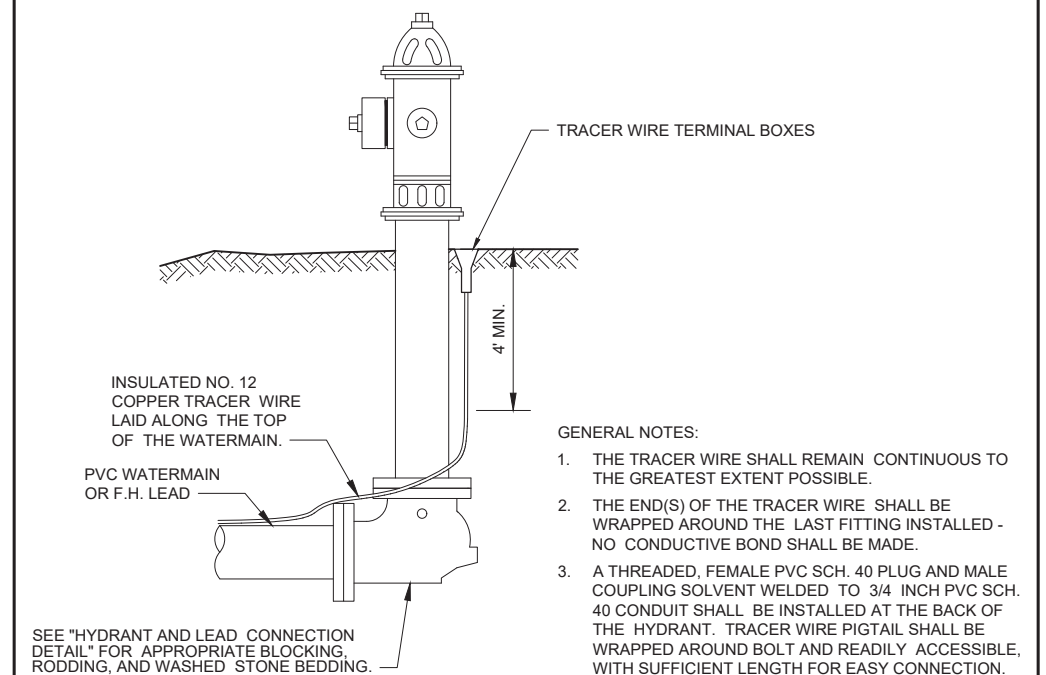
BUTTRESS FOR PLUGS DETAIL
NO SCALE



GENERAL NOTES:

- THE SIDE PROTECTION INSTALLATION SHALL BE USED WHERE FROST WILL PENETRATE BELOW THE PIPE INVERT.

PIPE INSULATION DETAIL
NO SCALE



GENERAL NOTES:

- THE TRACER WIRE SHALL REMAIN CONTINUOUS TO THE GREATEST EXTENT POSSIBLE.
- THE END(S) OF THE TRACER WIRE SHALL BE WRAPPED AROUND THE LAST FITTING INSTALLED - NO CONDUCTIVE BOND SHALL BE MADE.
- A THREADED, FEMALE PVC SCH. 40 PLUG AND MALE COUPLING SOLVENT WELDED TO 3/4 INCH PVC SCH. 40 CONDUIT SHALL BE INSTALLED AT THE BACK OF THE HYDRANT. TRACER WIRE PIGTAIL SHALL BE WRAPPED AROUND BOLT AND READILY ACCESSIBLE, WITH SUFFICIENT LENGTH FOR EASY CONNECTION.

TRACER WIRE INSTALLATION FOR PVC WATERMAIN DETAIL
NO SCALE

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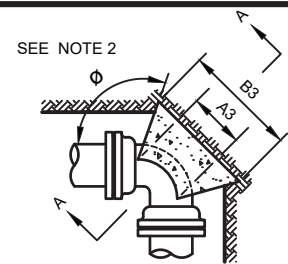
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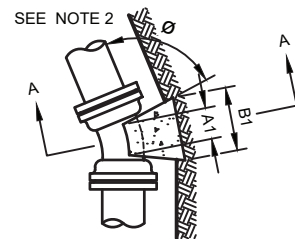
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WATER MAIN DETAILS

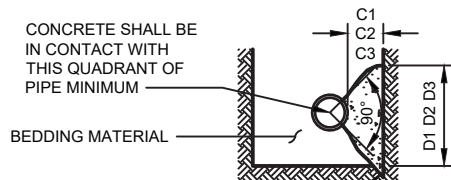
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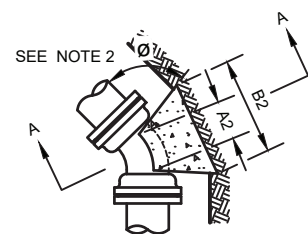
PLAN - 90° BEND



PLAN - 22 1/2° BEND



SECTION A-A



PLAN - 45° BEND

CONCRETE SHALL BE IN CONTACT WITH THIS QUADRANT OF PIPE MINIMUM

BEDDING MATERIAL

APPROX. 1:1 SLOPE WHERE DEPTH BELOW PIPE EXCEEDS 6 INCHES

NOTES:

- DIMENSIONS IN TABLE ARE BASED ON A WATER PRESSURE OF 150 P.S.I. AND AN EARTH RESISTANCE OF 2 TONS PER SQ. FT. INFORM THE ENGINEER IF PRESSURES EXCEED 150 PSI, OR ON-SITE SOIL DOES NOT MEET THIS CONDITION.
- DIMENSION C1 C2 C3 SHOULD BE LARGE ENOUGH TO MAKE ANGLE θ EQUAL TO OR LARGER THAN 45°.
- DIMENSION A1 A2 A3 SHOULD BE AS LARGE AS POSSIBLE WITHOUT INTERFERING WITH THE MECHANICAL JOINT.
- BUTTRESS TO BE POURED AGAINST FIRM UNDISTURBED SOIL, OR DISTURBED SOIL COMPACTED TO 95% OF MODIFIED PROCTOR DENSITY, ASTM D1557.
- ALL BUTTRESSED FITTINGS SHALL BE WRAPPED IN POLYETHYLENE.
- CONCRETE SHALL HAVE A MINIMUM 7-DAY COMPRESSIVE STRENGTH OF 2000 PSI.
- IN ADDITION TO BUTTRESS, ALL JOINTS SURROUNDING BENDS SHALL BE RESTRAINED WITH WEDGE ACTION RESTRAINING GLANDS.

PIPE SIZE	BUTTRESS DIMENSIONS					
	22 1/2° BENDS		45° BENDS		90° BENDS	
	B1	D1	B2	D2	B3	D3
6"	1'-0"	1'-0"	1'-0"	1'-0"	1'-4"	1'-2"
8"	1'-0"	1'-0"	1'-4"	1'-2"	1'-10"	1'-6"
10"	1'-2"	1'-2"	1'-7"	1'-7"	2'-3"	1'-10"
12"	1'-4"	1'-4"	1'-10"	1'-10"	2'-8"	2'-3"
16"	1'-10"	1'-8"	2'-6"	2'-4"	3'-10"	2'-10"
20"	2'-4"	2'-0"	3'-3"	2'-10"	5'-0"	3'-4"
24"	2'-10"	2'-4"	4'-0"	3'-3"	6'-4"	3'-10"

BUTTRESS FOR BENDS DETAIL
NO SCALE

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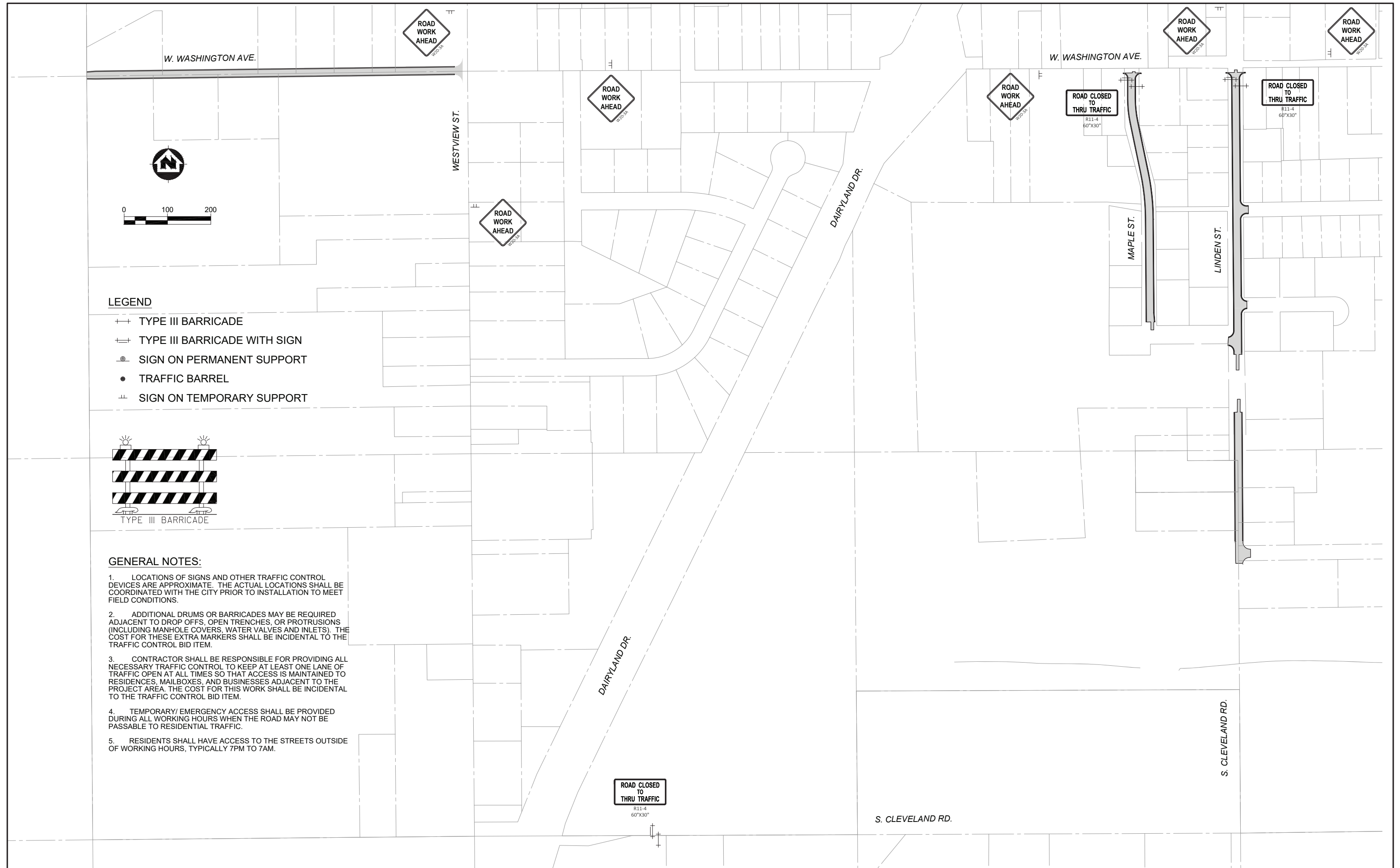


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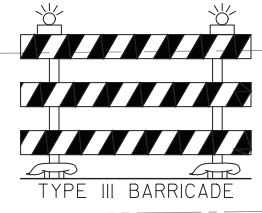
WATER MAIN DETAILS

FILE NO.
08002035
SHEET
G 9



LEGEND

- ++ TYPE III BARRICADE
- ++ TYPE III BARRICADE WITH SIGN
- ⊙ SIGN ON PERMANENT SUPPORT
- TRAFFIC BARREL
- ⊥ SIGN ON TEMPORARY SUPPORT



GENERAL NOTES:

1. LOCATIONS OF SIGNS AND OTHER TRAFFIC CONTROL DEVICES ARE APPROXIMATE. THE ACTUAL LOCATIONS SHALL BE COORDINATED WITH THE CITY PRIOR TO INSTALLATION TO MEET FIELD CONDITIONS.
2. ADDITIONAL DRUMS OR BARRICADES MAY BE REQUIRED ADJACENT TO DROP OFFS, OPEN TRENCHES, OR PROTRUSIONS (INCLUDING MANHOLE COVERS, WATER VALVES AND INLETS). THE COST FOR THESE EXTRA MARKERS SHALL BE INCIDENTAL TO THE TRAFFIC CONTROL BID ITEM.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY TRAFFIC CONTROL TO KEEP AT LEAST ONE LANE OF TRAFFIC OPEN AT ALL TIMES SO THAT ACCESS IS MAINTAINED TO RESIDENCES, MAILBOXES, AND BUSINESSES ADJACENT TO THE PROJECT AREA. THE COST FOR THIS WORK SHALL BE INCIDENTAL TO THE TRAFFIC CONTROL BID ITEM.
4. TEMPORARY/ EMERGENCY ACCESS SHALL BE PROVIDED DURING ALL WORKING HOURS WHEN THE ROAD MAY NOT BE PASSABLE TO RESIDENTIAL TRAFFIC.
5. RESIDENTS SHALL HAVE ACCESS TO THE STREETS OUTSIDE OF WORKING HOURS, TYPICALLY 7PM TO 7AM.

NO.	DATE	REVISION	BY
1	February 24, 2023	PROJECT DATE	EE
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3		CHECKED BY	DWR

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VILLAGE OF CLEVELAND
MANITOWOC COUNTY, WI

W WASHINGTON AVE, MAPLE ST & LINDEN ST
TRAFFIC CONTROL PLAN

FILE NO. 08002035
 SHEET 11
 ST 1

PLOT DATE: 2/27/2023 12:55 PM, G:\08\08002\08002035\CADD\Construction Documents\Traffic Control Plans 2023.dwg



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	DWR	-	-	-	-
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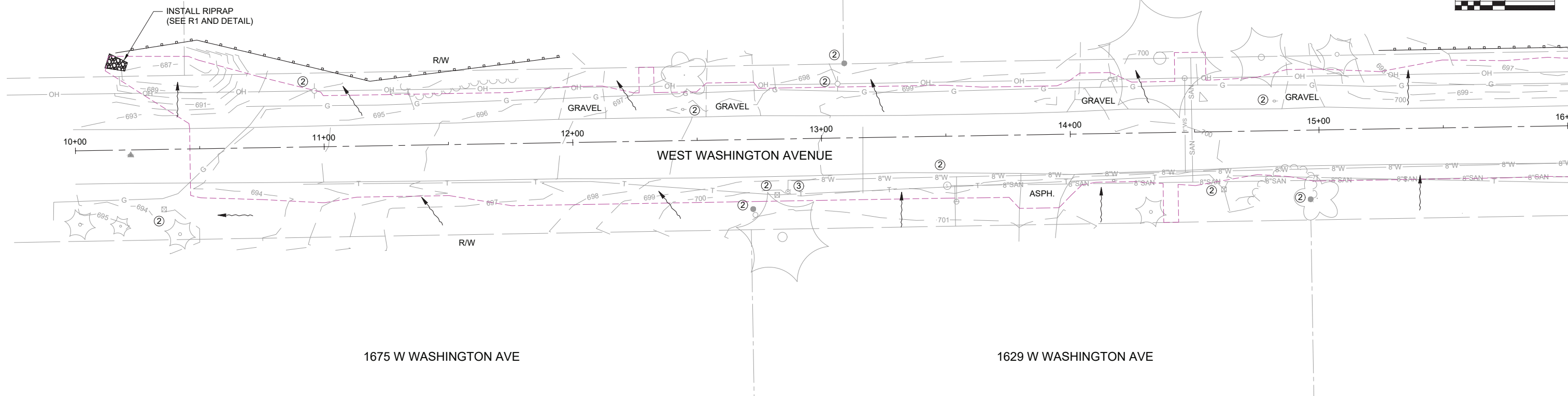
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NORTH AVENUE
TRAFFIC CONTROL PLAN

1632 W WASHINGTON AVE

1620 W WASHINGTON AVE



1675 W WASHINGTON AVE

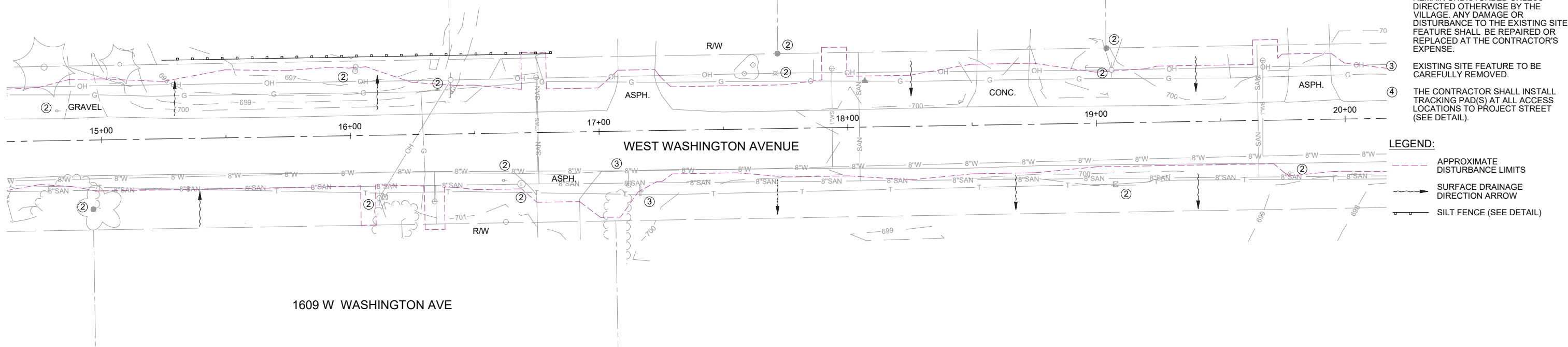
1629 W WASHINGTON AVE



1570 W WASHINGTON AVE

1550 W WASHINGTON AVE

1536 W WASHINGTON AVE



1609 W WASHINGTON AVE

GENERAL NOTES:

- ① THE CONTRACTOR SHALL INSTALL INLET PROTECTION IN ALL EXISTING & PROPOSED STORM INLETS & CATCH BASIN (SEE DETAIL) UNTIL THE SITE HAS BEEN STABILIZED (INCLUDED IN EROSION CONTROL BID ITEM).
- ② EXISTING SITE & SURVEY FEATURES (IRON PIPE/ ROD, TREE, SHRUB, UTILITY POLE, UTILITY PED, FENCE, MAILBOXES, LANDSCAPING, ETC.) TO REMAIN UNDISTURBED UNLESS DIRECTED OTHERWISE BY THE VILLAGE. ANY DAMAGE OR DISTURBANCE TO THE EXISTING SITE FEATURE SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
- ③ EXISTING SITE FEATURE TO BE CAREFULLY REMOVED.
- ④ THE CONTRACTOR SHALL INSTALL TRACKING PAD(S) AT ALL ACCESS LOCATIONS TO PROJECT STREET (SEE DETAIL).

LEGEND:

- APPROXIMATE DISTURBANCE LIMITS
- SURFACE DRAINAGE DIRECTION ARROW
- SILT FENCE (SEE DETAIL)

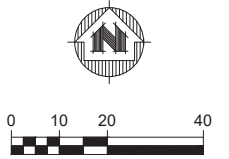
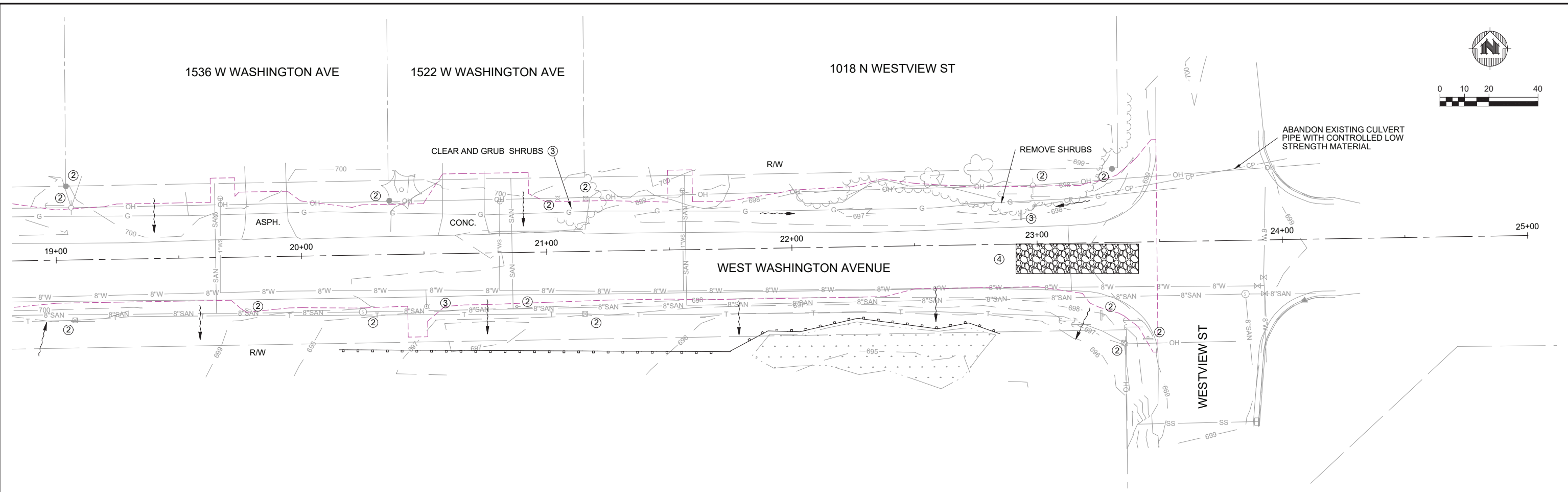
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2023 STREET AND UTILITY IMPROVEMENTS
VILLAGE OF CLEVELAND
MANITOWOC COUNTY, WI

WEST WASHINGTON AVE EROSION CONTROL PLAN

PROJECT NO:
08002035
SHEET
ST 3



GENERAL NOTES:

- ① THE CONTRACTOR SHALL INSTALL INLET PROTECTION IN ALL EXISTING & PROPOSED STORM INLETS & CATCH BASIN (SEE DETAIL) UNTIL THE SITE HAS BEEN STABILIZED. (INCLUDED IN EROSION CONTROL BID ITEM).
- ② EXISTING SITE & SURVEY FEATURES (IRON PIPE/ ROD, TREE, SHRUB, UTILITY POLE, UTILITY PED, FENCE, MAILBOXES, LANDSCAPING, ETC.) TO REMAIN UNDISTURBED UNLESS DIRECTED OTHERWISE BY THE VILLAGE. ANY DAMAGE OR DISTURBANCE TO THE EXISTING SITE FEATURE SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
- ③ EXISTING SITE FEATURE TO BE CAREFULLY REMOVED.
- ④ THE CONTRACTOR SHALL INSTALL TRACKING PAD(S) AT ALL ACCESS LOCATIONS TO PROJECT STREET (SEE DETAIL).

LEGEND:

- - - - - APPROXIMATE DISTURBANCE LIMITS
- SURFACE DRAINAGE DIRECTION ARROW
- SILT FENCE (SEE DETAIL)

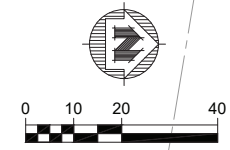
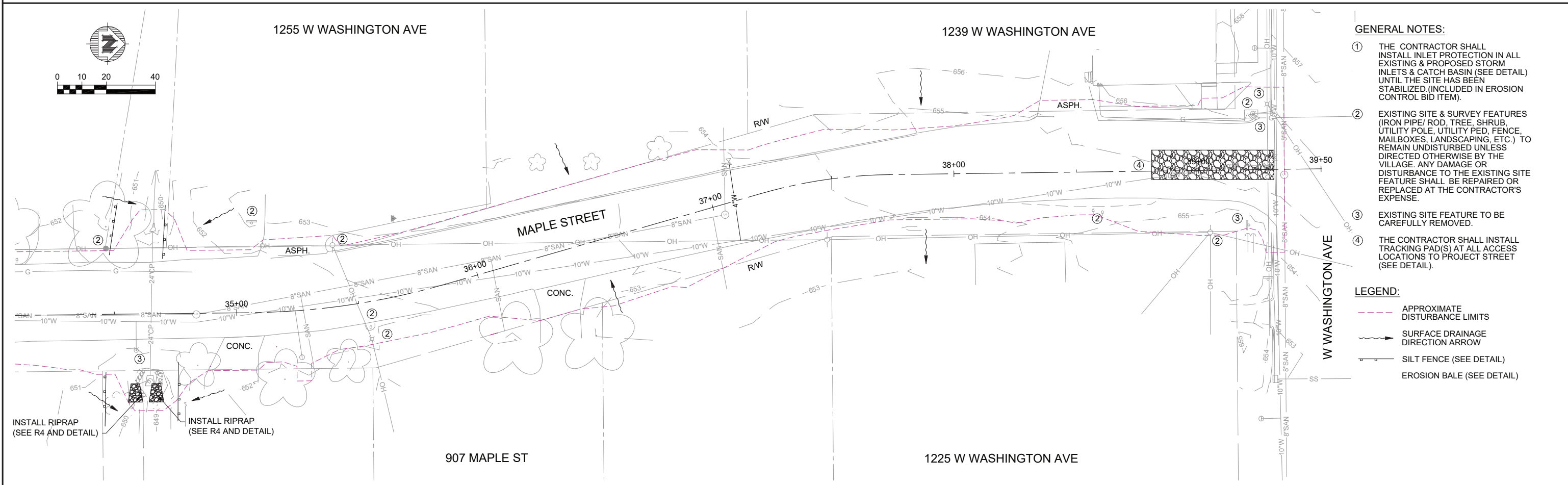
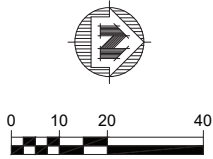
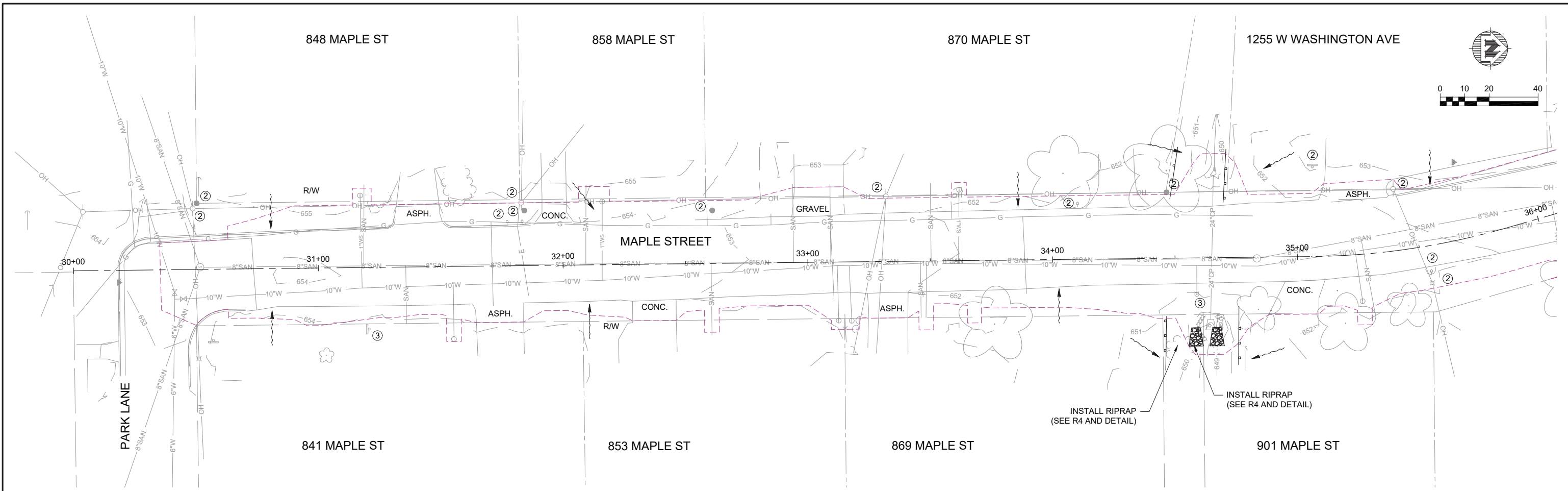
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2023 STREET AND UTILITY IMPROVEMENTS
 VILLAGE OF CLEVELAND
 MANITOWOC COUNTY, WI

WEST WASHINGTON AVE EROSION CONTROL PLAN

PROJECT NO.
08002035
 SHEET
ST 4



- GENERAL NOTES:**
- ① THE CONTRACTOR SHALL INSTALL INLET PROTECTION IN ALL EXISTING & PROPOSED STORM INLETS & CATCH BASIN (SEE DETAIL) UNTIL THE SITE HAS BEEN STABILIZED. (INCLUDED IN EROSION CONTROL BID ITEM).
 - ② EXISTING SITE & SURVEY FEATURES (IRON PIPE/ ROD, TREE, SHRUB, UTILITY POLE, UTILITY PED, FENCE, MAILBOXES, LANDSCAPING, ETC.) TO REMAIN UNDISTURBED UNLESS DIRECTED OTHERWISE BY THE VILLAGE. ANY DAMAGE OR DISTURBANCE TO THE EXISTING SITE FEATURE SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
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- LEGEND:**
- DISTURBANCE LIMITS
 - SURFACE DRAINAGE DIRECTION ARROW
 - SILT FENCE (SEE DETAIL)
 - EROSION BALE (SEE DETAIL)

PROJECT DATE:	DRAWN BY:	NO.	DATE	REVISION	BY:
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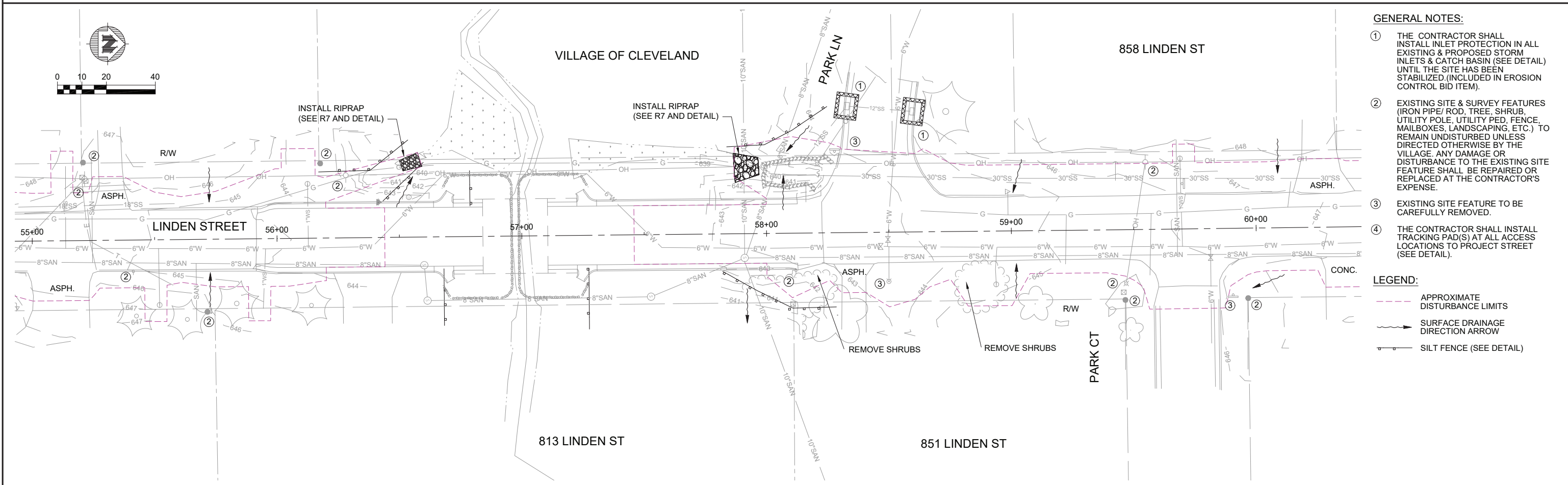
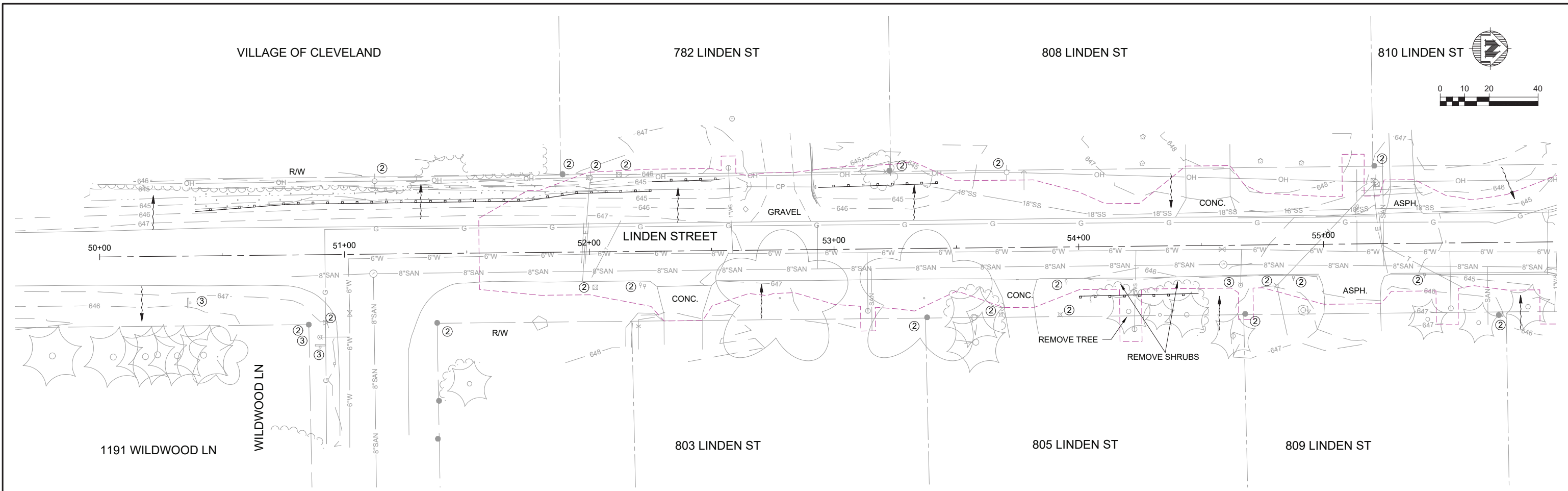
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 VILLAGE OF CLEVELAND
 MANITOWOC COUNTY, WI

MAPLE STREET EROSION CONTROL PLAN

PROJECT NO:
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ST 5



- GENERAL NOTES:**
- ① THE CONTRACTOR SHALL INSTALL INLET PROTECTION IN ALL EXISTING & PROPOSED STORM INLETS & CATCH BASIN (SEE DETAIL) UNTIL THE SITE HAS BEEN STABILIZED (INCLUDED IN EROSION CONTROL BID ITEM).
 - ② EXISTING SITE & SURVEY FEATURES (IRON PIPE/ ROD, TREE, SHRUB, UTILITY POLE, UTILITY PED, FENCE, MAILBOXES, LANDSCAPING, ETC.) TO REMAIN UNDISTURBED UNLESS DIRECTED OTHERWISE BY THE VILLAGE. ANY DAMAGE OR DISTURBANCE TO THE EXISTING SITE FEATURE SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
 - ③ EXISTING SITE FEATURE TO BE CAREFULLY REMOVED.
 - ④ THE CONTRACTOR SHALL INSTALL TRACKING PAD(S) AT ALL ACCESS LOCATIONS TO PROJECT STREET (SEE DETAIL).

- LEGEND:**
- - - - - APPROXIMATE DISTURBANCE LIMITS
 - SURFACE DRAINAGE DIRECTION ARROW
 - SILT FENCE (SEE DETAIL)

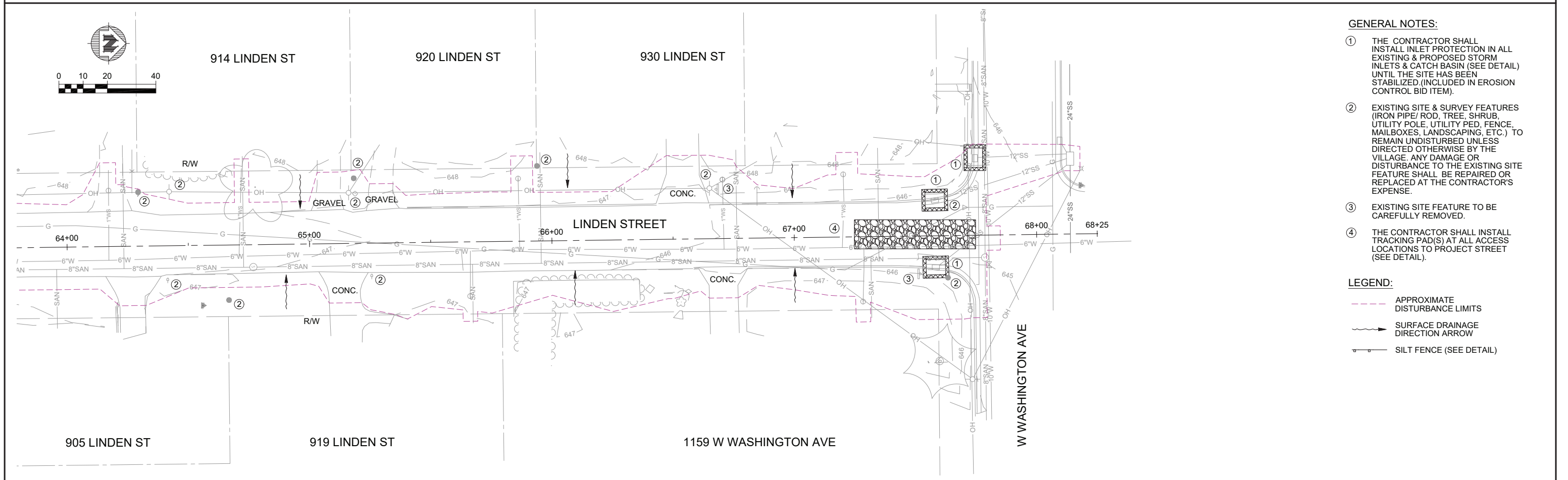
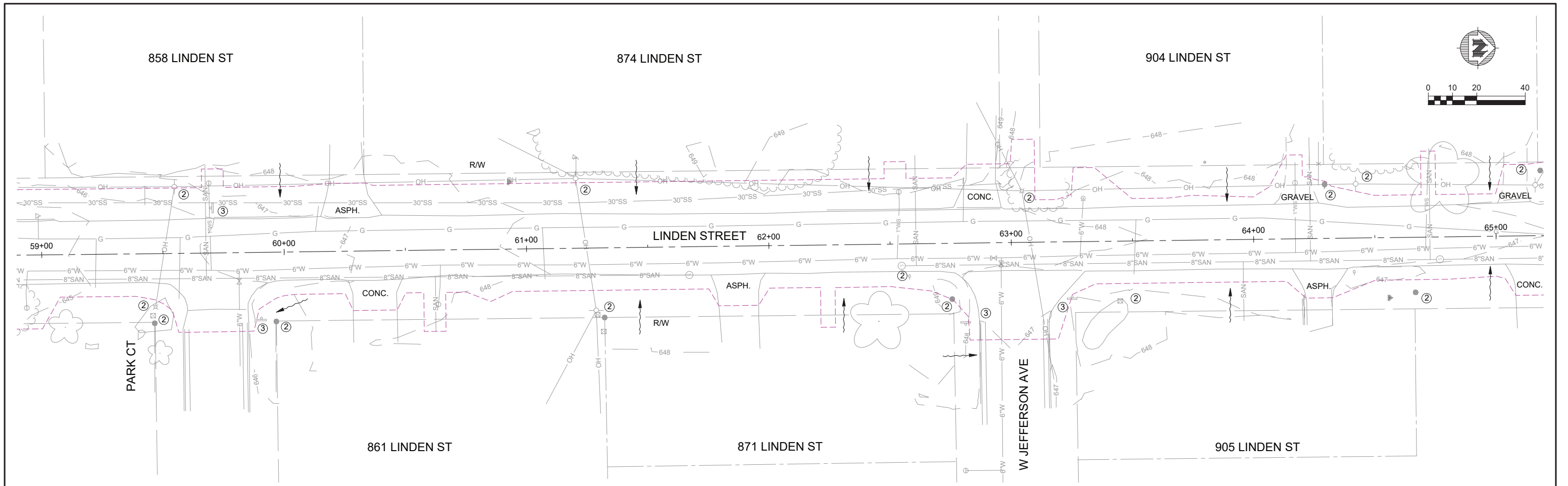
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LINDEN STREET EROSION CONTROL PLAN
 PROJECT NO. 08002035
 SHEET ST 6

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GENERAL NOTES:

- ① THE CONTRACTOR SHALL INSTALL INLET PROTECTION IN ALL EXISTING & PROPOSED STORM INLETS & CATCH BASIN (SEE DETAIL) UNTIL THE SITE HAS BEEN STABILIZED. (INCLUDED IN EROSION CONTROL BID ITEM).
- ② EXISTING SITE & SURVEY FEATURES (IRON PIPE/ ROD, TREE, SHRUB, UTILITY POLE, UTILITY PED, FENCE, MAILBOXES, LANDSCAPING, ETC.) TO REMAIN UNDISTURBED UNLESS DIRECTED OTHERWISE BY THE VILLAGE. ANY DAMAGE OR DISTURBANCE TO THE EXISTING SITE FEATURE SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
- ③ EXISTING SITE FEATURE TO BE CAREFULLY REMOVED.
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LEGEND:

- APPROXIMATE DISTURBANCE LIMITS
- SURFACE DRAINAGE DIRECTION ARROW
- SILT FENCE (SEE DETAIL)

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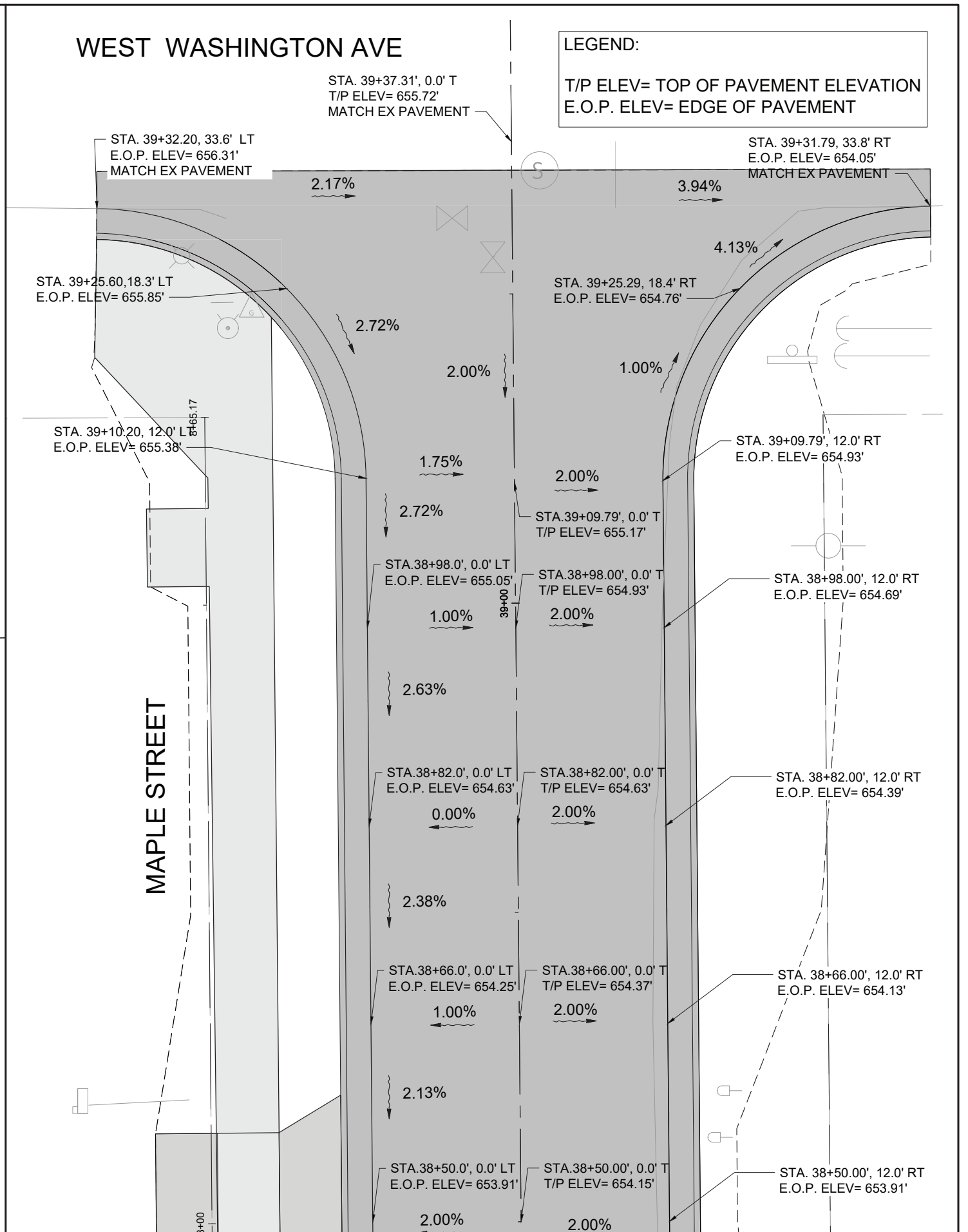
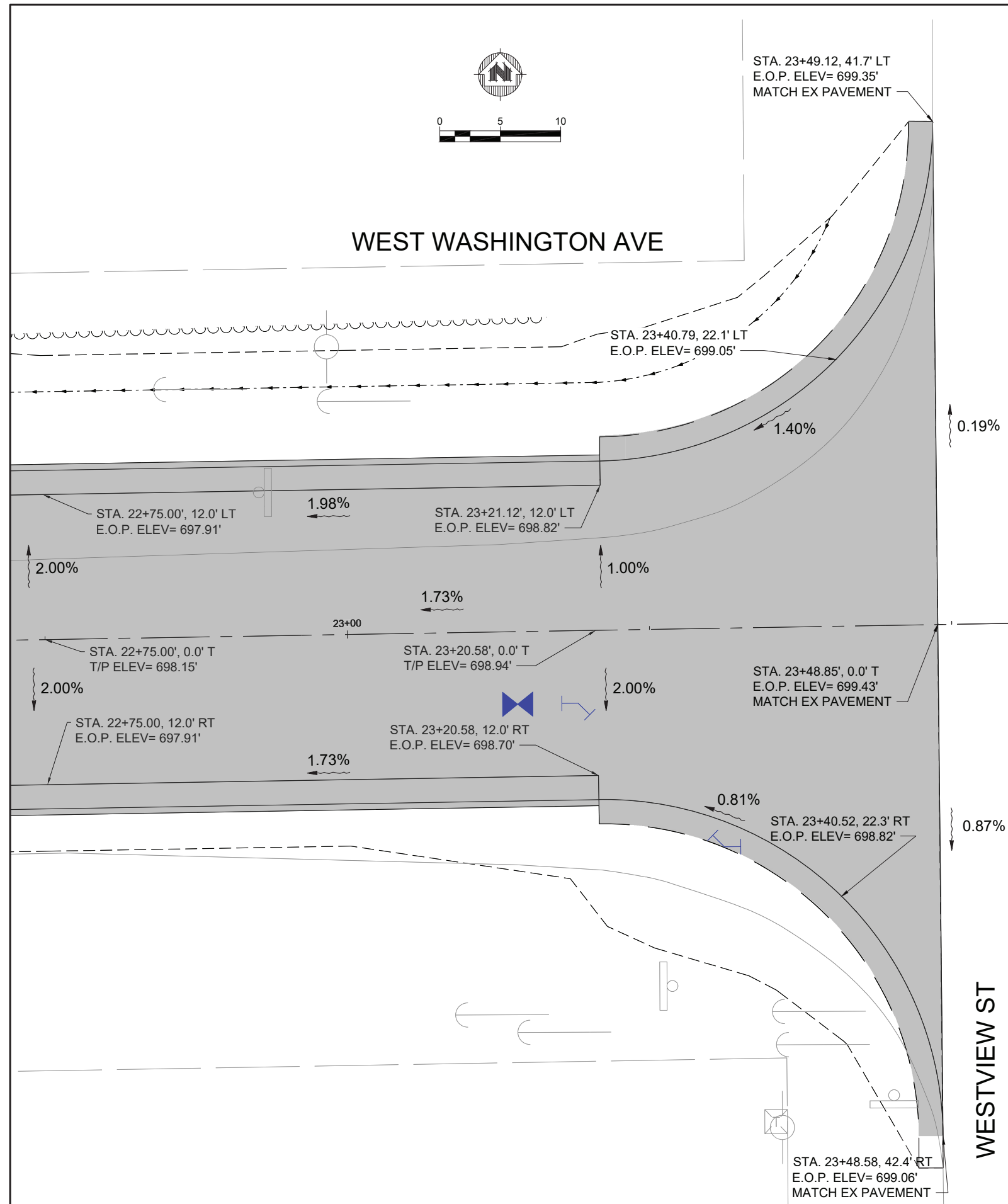


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 VILLAGE OF CLEVELAND
 MANITOWOC COUNTY, WI

LINDEN STREET EROSION CONTROL PLAN

PROJECT NO.
08002035
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ST 7



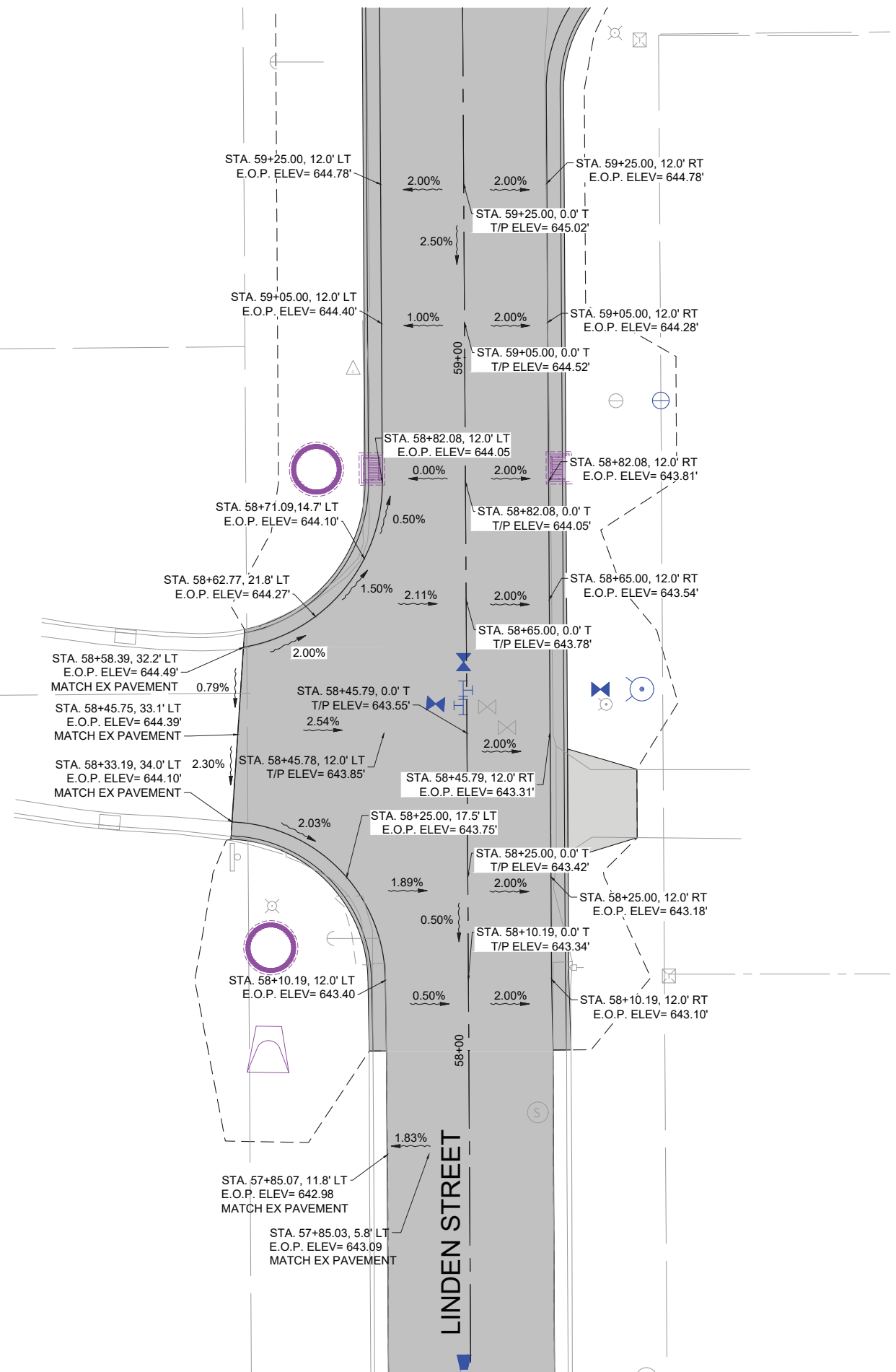
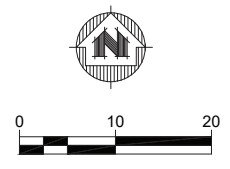
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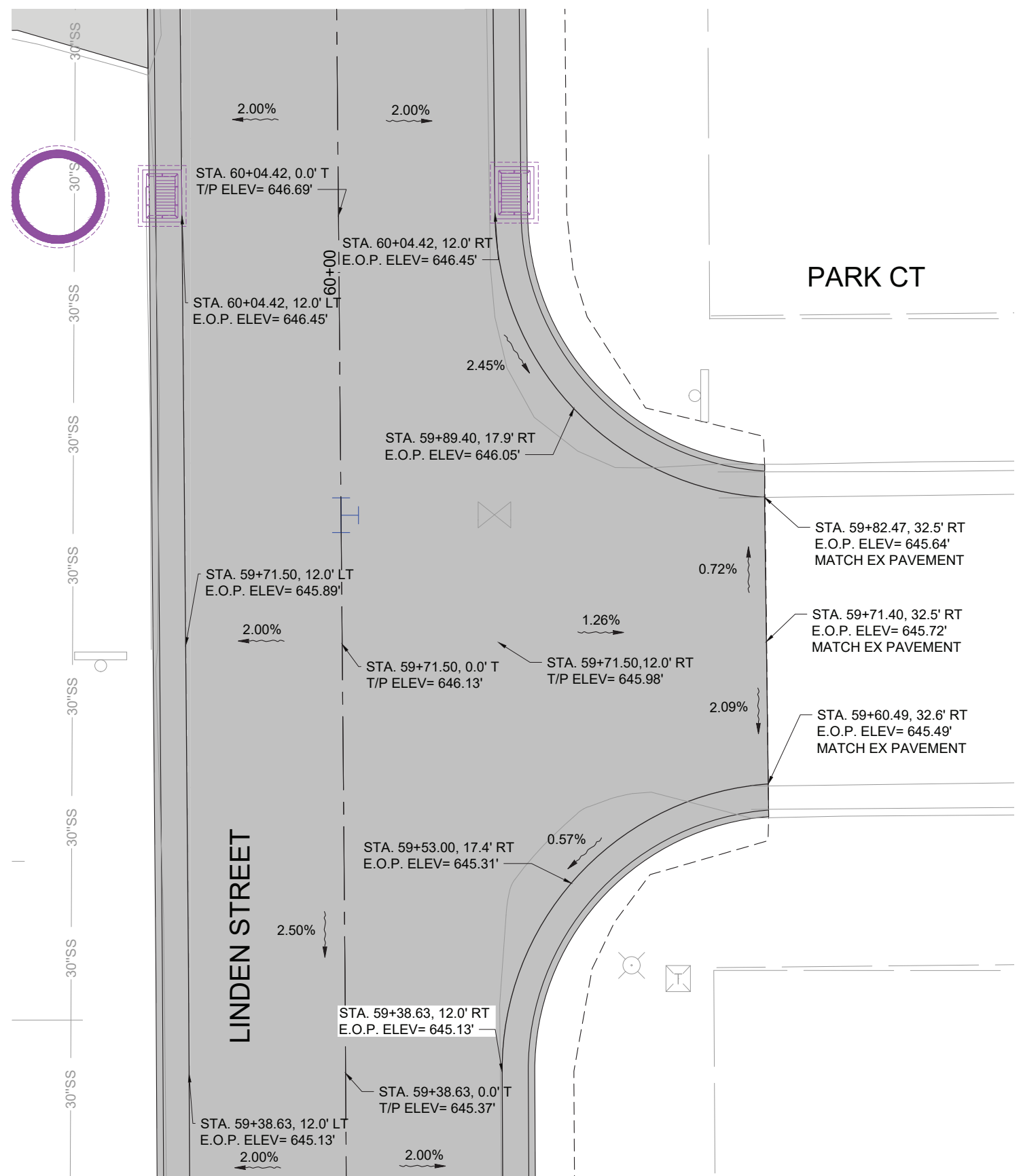
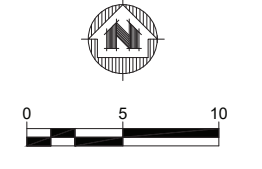
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 VILLAGE OF CLEVELAND
 MANITOWOC COUNTY, WI

WEST WASHINGTON AVENUE AND MAPLE STREET
 INTERSECTION PLANS
 PROJECT NO. 08002035
 SHEET 8

PLOT DATE: Monday, February 27, 2023 12:56:57 PM, G:\08\08002\08002035\CADD\Construction Documents\Intersection Plans 2023.dwg



LEGEND:
 T/P ELEV= TOP OF PAVEMENT ELEVATION
 E.O.P. ELEV= EDGE OF PAVEMENT



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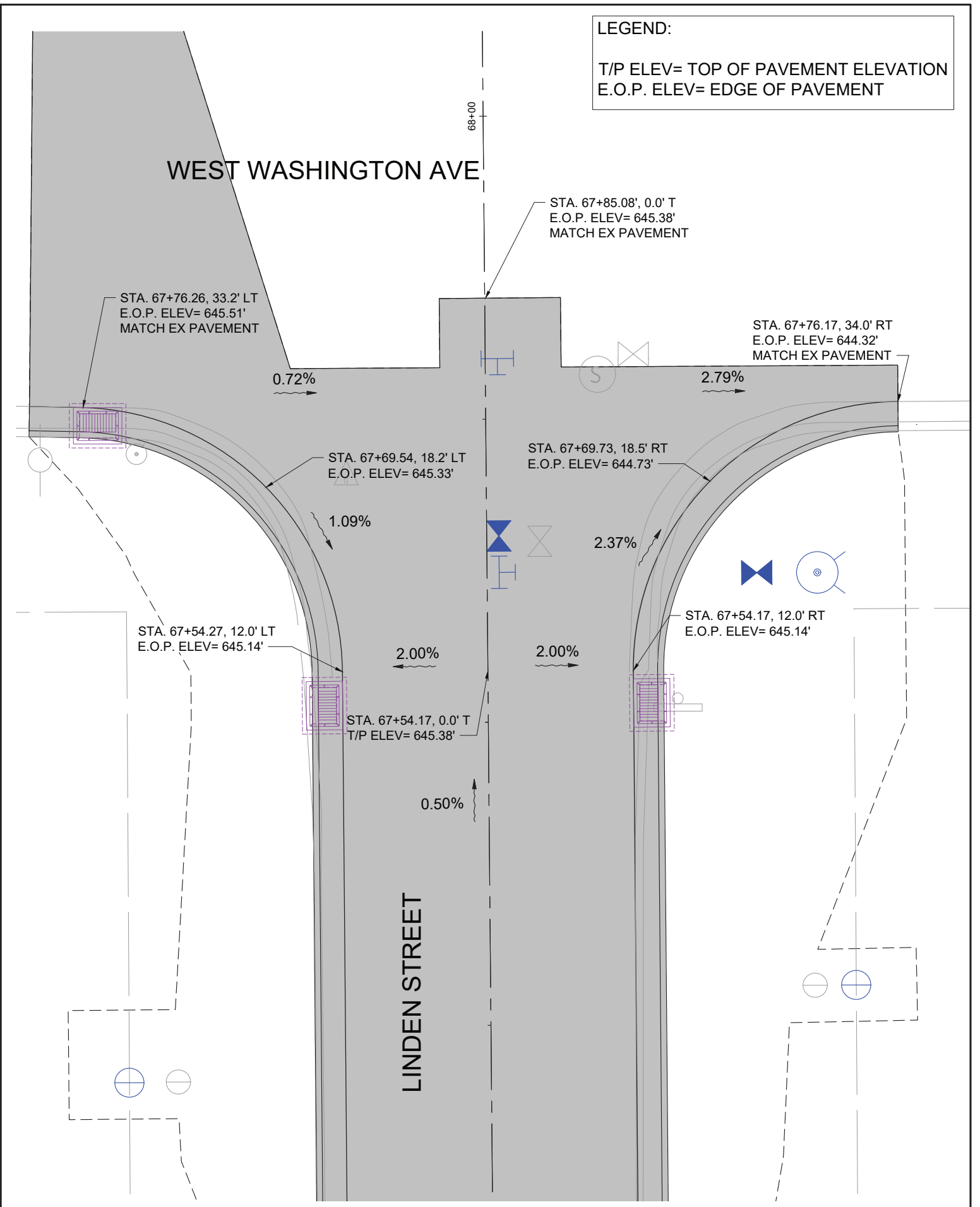
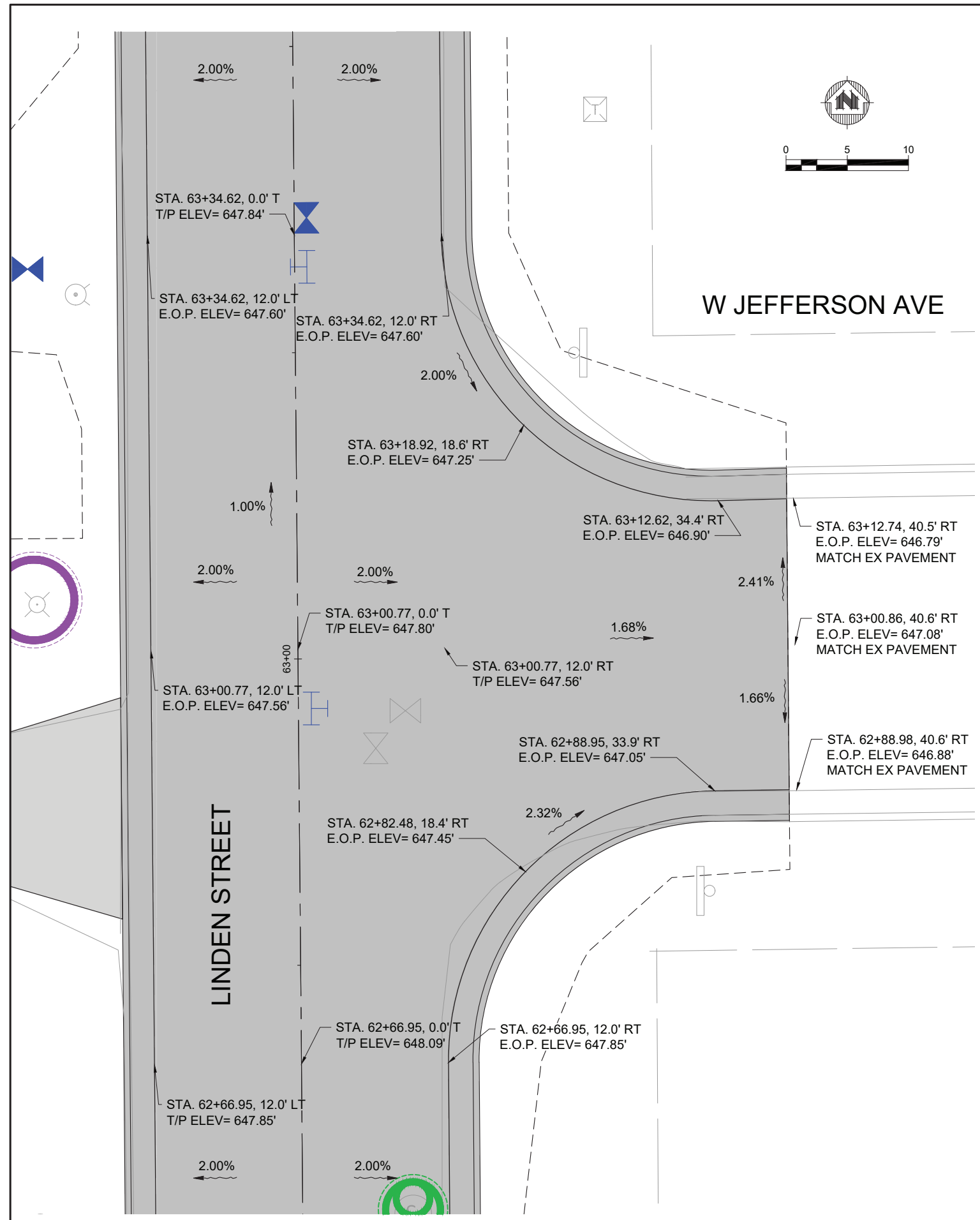
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 VILLAGE OF CLEVELAND
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LINDEN STREET INTERSECTION PLANS

PROJECT NO.
08002035
 SHEET
ST 9

PLOT DATE: Monday, February 27, 2023 12:57:03 PM, G:\08\08002\08002035\CADD\Construction Documents\Intersection Plans 2023.dwg



LEGEND:
 T/P ELEV= TOP OF PAVEMENT ELEVATION
 E.O.P. ELEV= EDGE OF PAVEMENT

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LINDEN STREET INTERSECTION PLANS

PROJECT NO. 08002035
 SHEET ST 10



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VFW PARKING LOT REMOVAL

FILE NO.
08002035
 SHEET
ST 11



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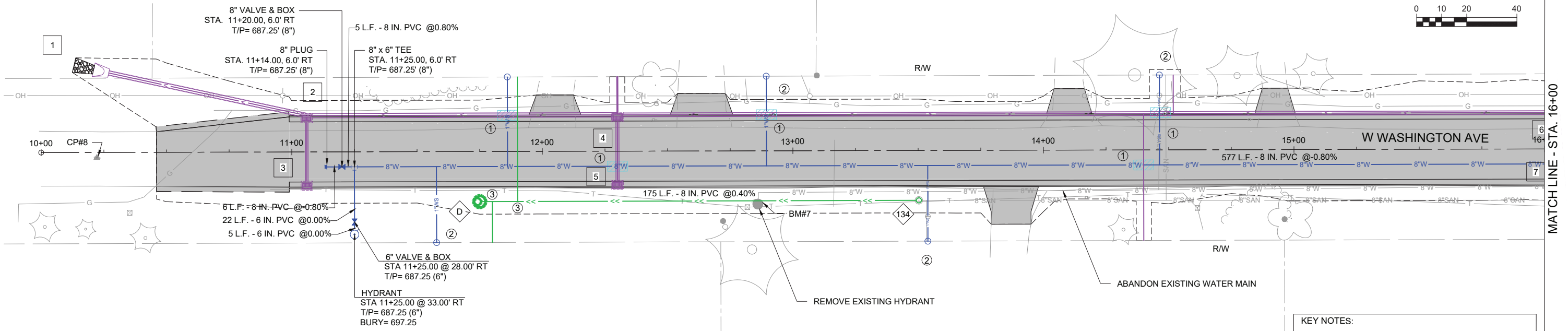
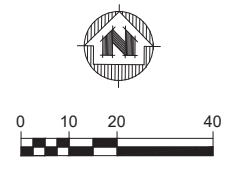
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VILLAGE OF CLEVELAND
MANITOWOC COUNTY, WI

VFW PARKING LOT PROPOSED

JACK E SCHNELLE ET UX

1632 W WASHINGTON AVE
MARK WIEGAND
36 L.F. - 1" I.D. WATER SRVC
50 L.F. - 6" PVC SAN LAT

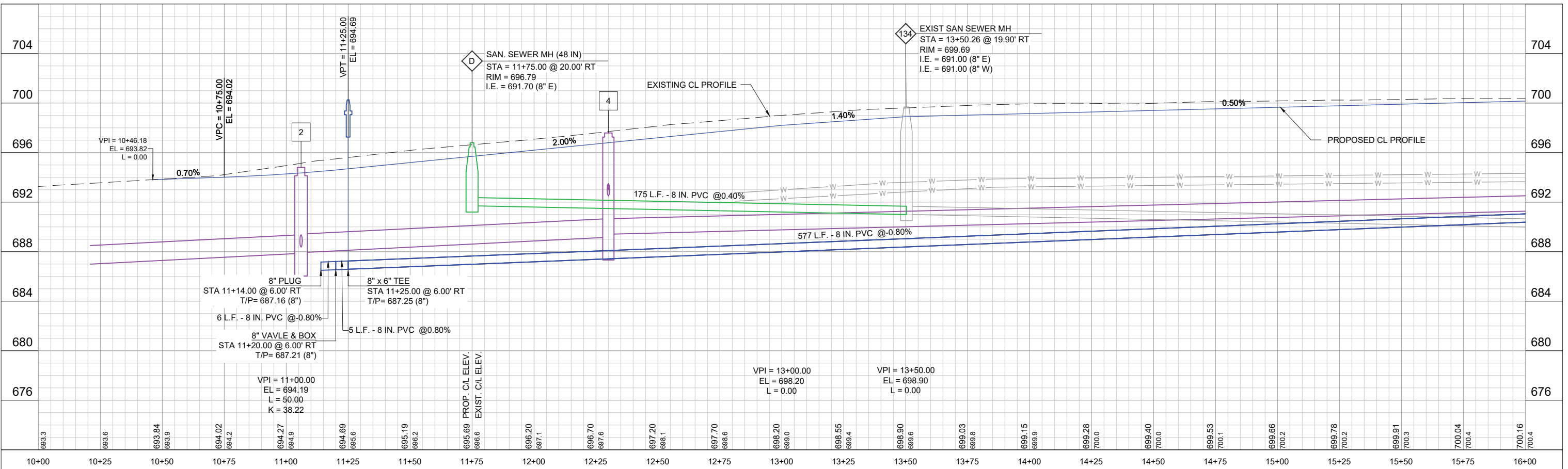
1620 W WASHINGTON AVE
WAYNE MATTHEW CLENDENIN
36 L.F. - 1" I.D. WATER SRVC



BENCHMARK TABLE

BM. NO.	STATION	DESCRIPTION	ELEV.
CP #8	STA. 10+22.2, 2.1' RT	CONTROL POINT	693.67'
BM #7	STA. 12+86.0, 21.2' RT	STEEL BOLT ON HYDRANT	702.79'

- KEY NOTES:**
- ① 2" INSULATION
 - ② 1" SADDLE, CORPORATION AND CURB STOP
 - ③ 15" X 6" WYE



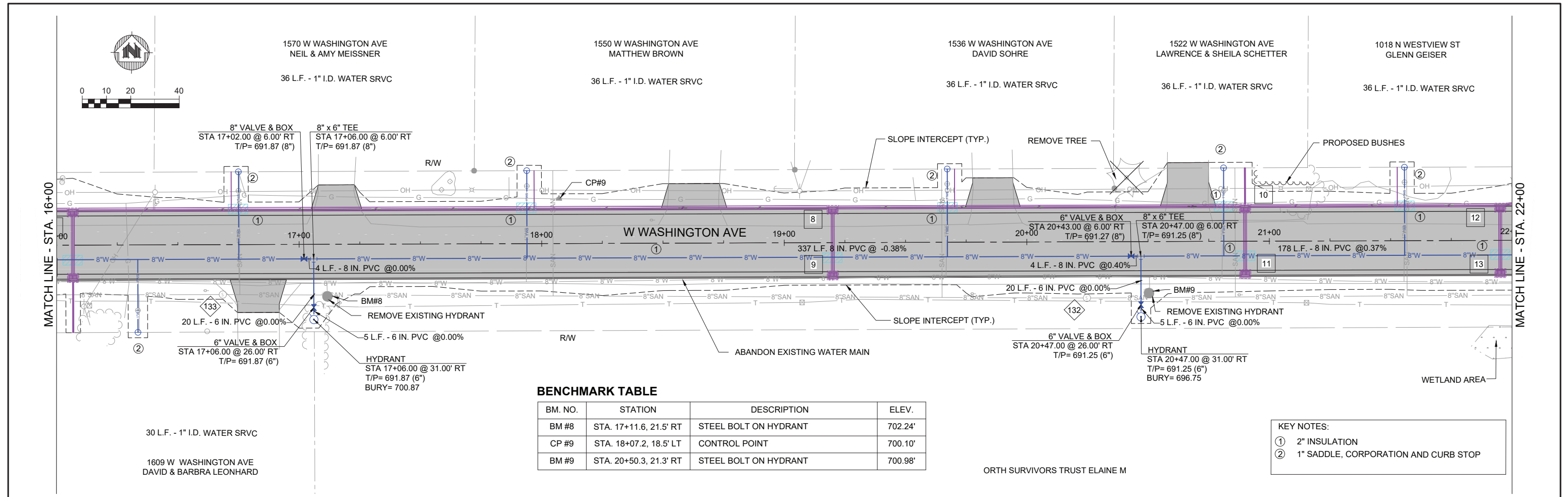
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VILLAGE OF CLEVELAND
MANITOWOC COUNTY, WI

W WASHINGTON AVE WATER & SANITARY PLAN & PROFILE

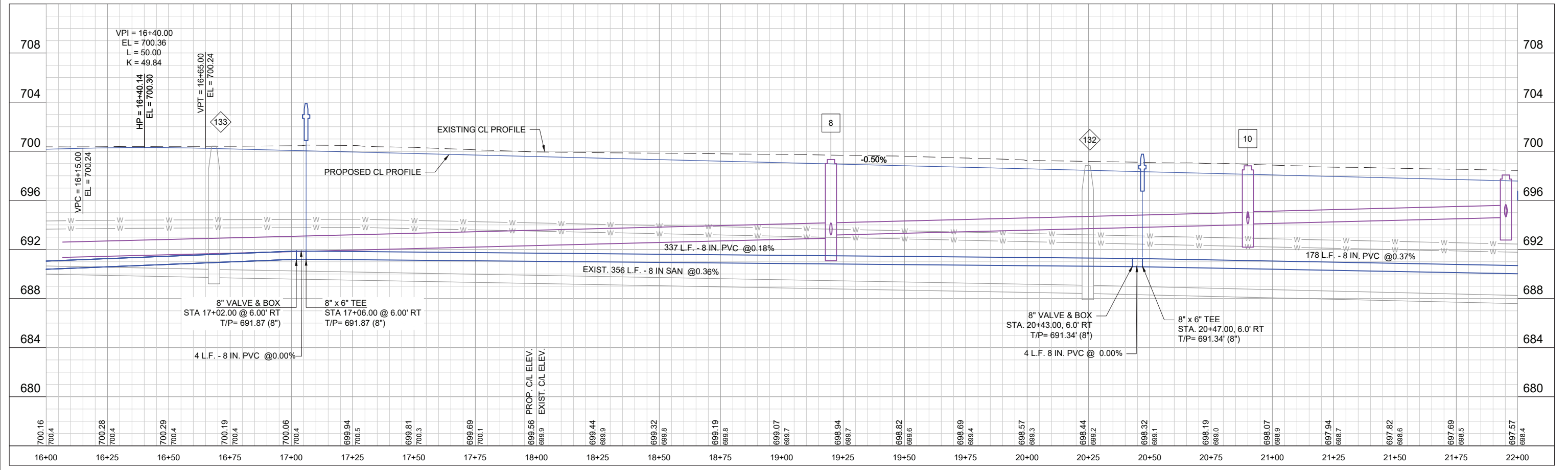
PROJECT NO.
08002035
SHEET
P 1



BENCHMARK TABLE

BM. NO.	STATION	DESCRIPTION	ELEV.
BM #8	STA. 17+11.6, 21.5' RT	STEEL BOLT ON HYDRANT	702.24'
CP #9	STA. 18+07.2, 18.5' LT	CONTROL POINT	700.10'
BM #9	STA. 20+50.3, 21.3' RT	STEEL BOLT ON HYDRANT	700.98'

- KEY NOTES:**
- ① 2" INSULATION
 - ② 1" SADDLE, CORPORATION AND CURB STOP



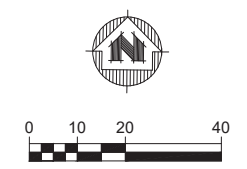
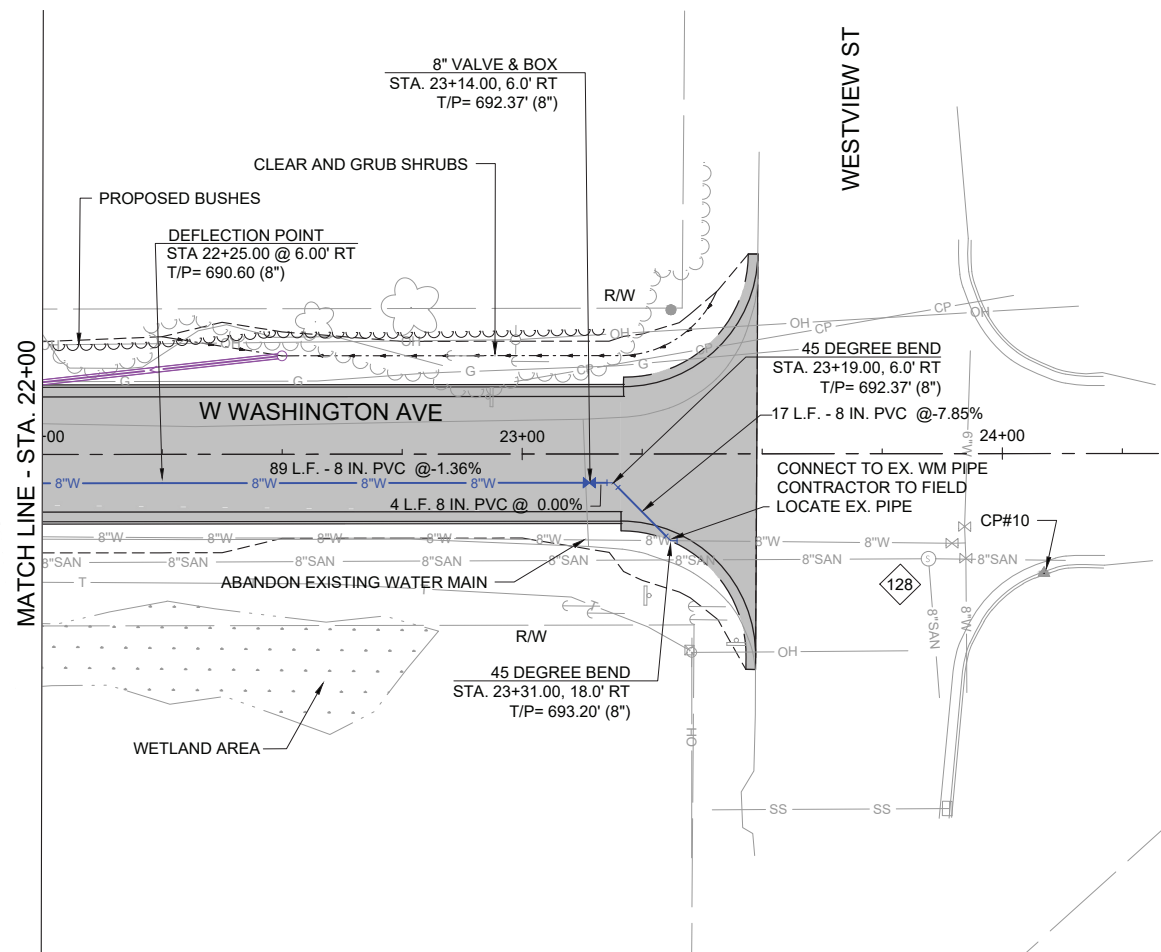
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 VILLAGE OF CLEVELAND
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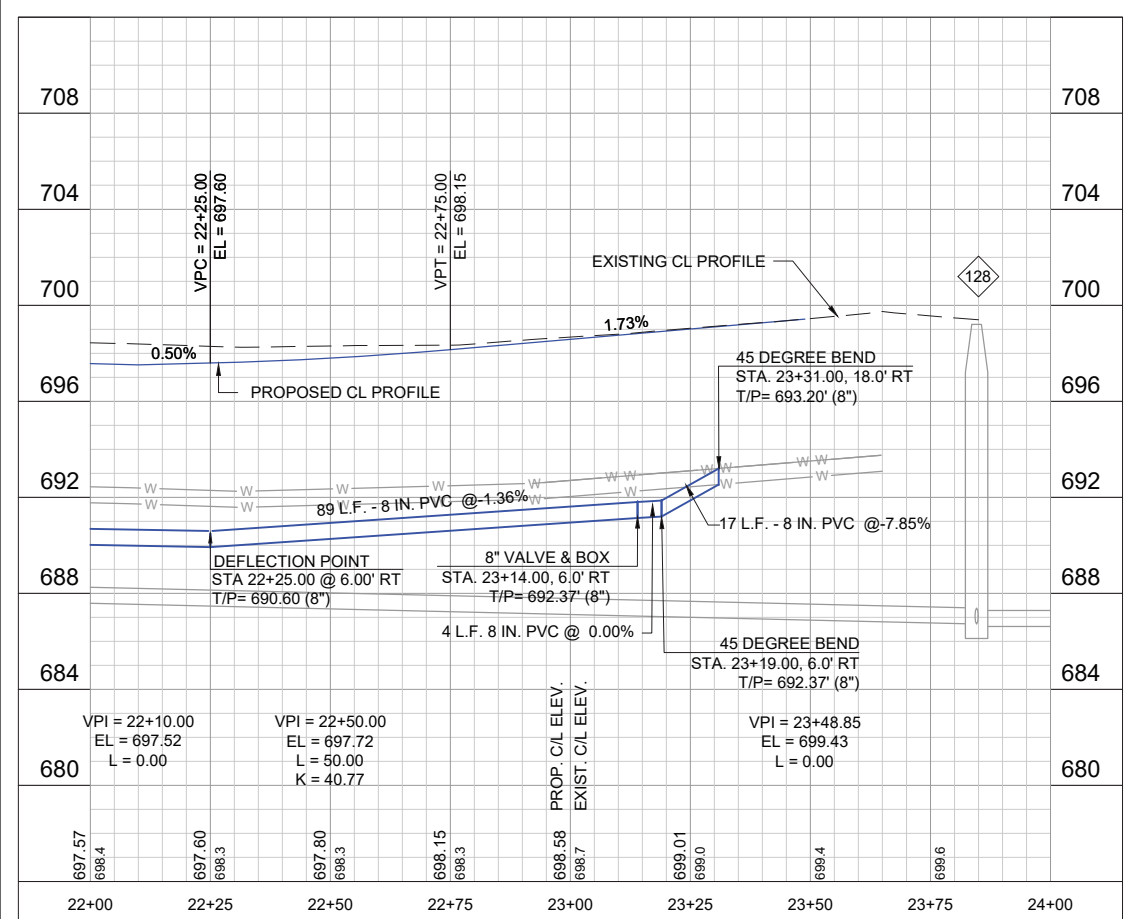
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08002035
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P 2



BENCHMARK TABLE

BM. NO.	STATION	DESCRIPTION	ELEV.
CP #10	STA. 24+08.6, 24.9' RT	CONTROL POINT	699.14'

- KEY NOTES:**
- ① 2" INSULATION
 - ② 1" SADDLE, CORPORATION AND CURB STOP



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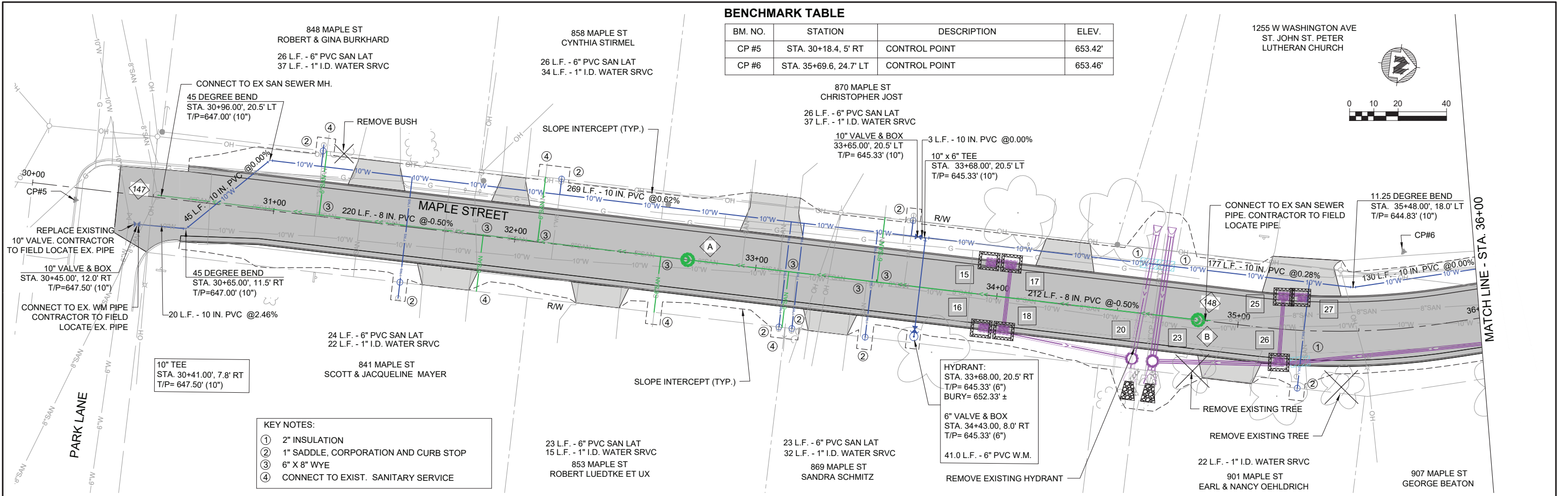
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 VILLAGE OF CLEVELAND
 MANITOWOC COUNTY, WI

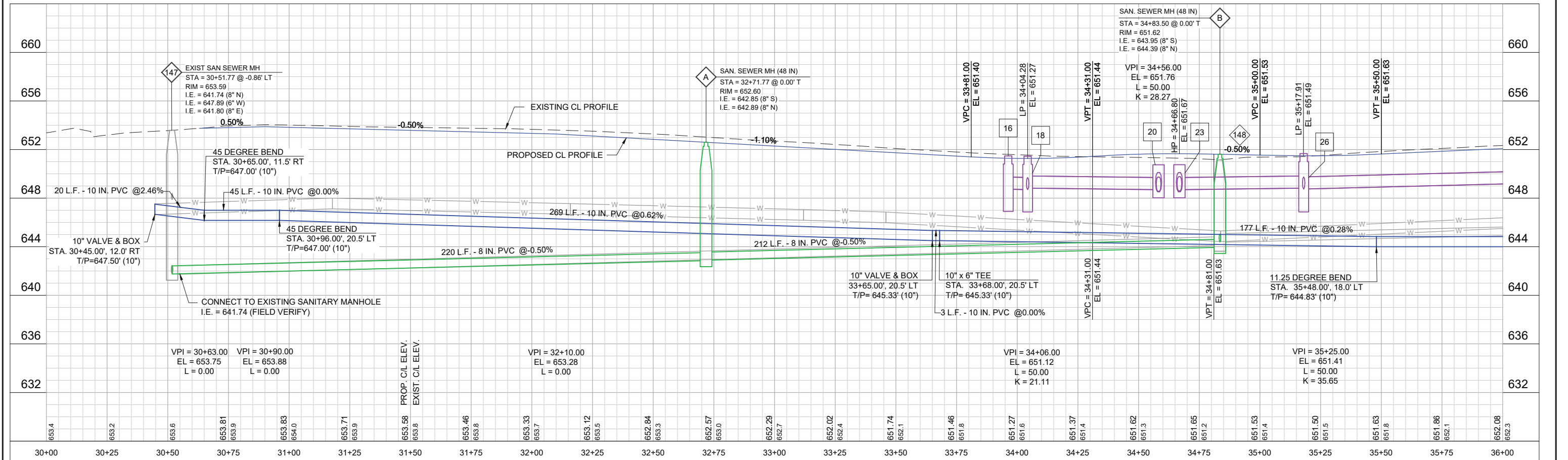
W WASHINGTON AVE WATER & SANITARY PLAN & PROFILE

BENCHMARK TABLE

BM. NO.	STATION	DESCRIPTION	ELEV.
CP #5	STA. 30+18.4, 5' RT	CONTROL POINT	653.42'
CP #6	STA. 35+69.6, 24.7' LT	CONTROL POINT	653.46'



- KEY NOTES:**
- ① 2" INSULATION
 - ② 1" SADDLE, CORPORATION AND CURB STOP
 - ③ 6" X 8" WYE
 - ④ CONNECT TO EXIST. SANITARY SERVICE



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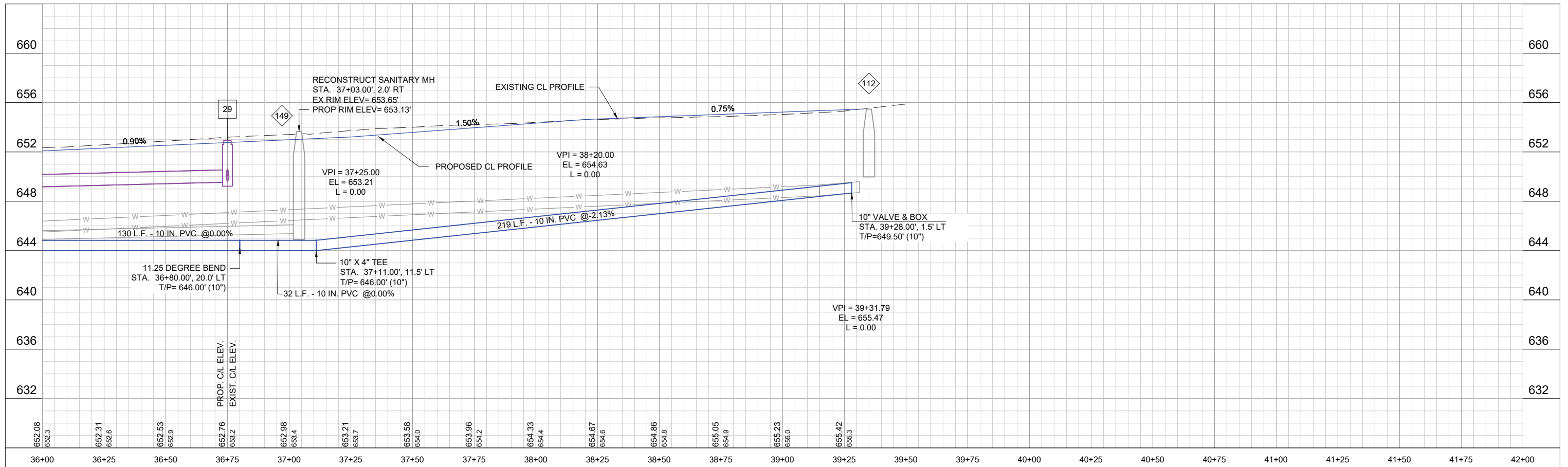
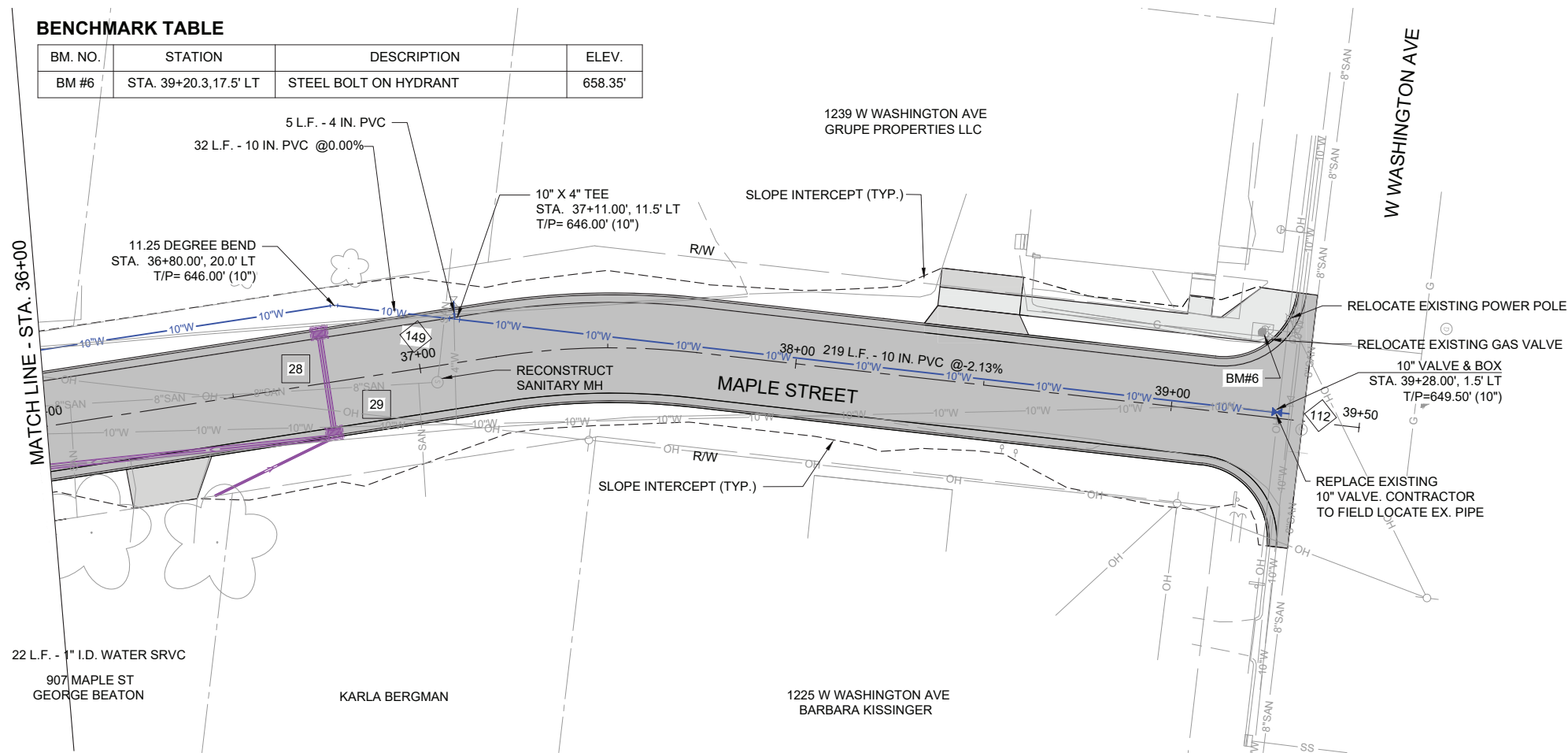
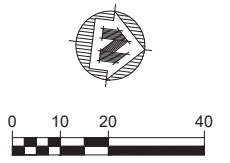
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 VILLAGE OF CLEVELAND
 MANITOWOC COUNTY, WI

MAPLE STREET WATER & SANITARY PLAN & PROFILE

PROJECT NO. 08002035
 SHEET P 4

BENCHMARK TABLE

BM. NO.	STATION	DESCRIPTION	ELEV.
BM #6	STA. 39+20.3, 17.5' LT	STEEL BOLT ON HYDRANT	658.35'



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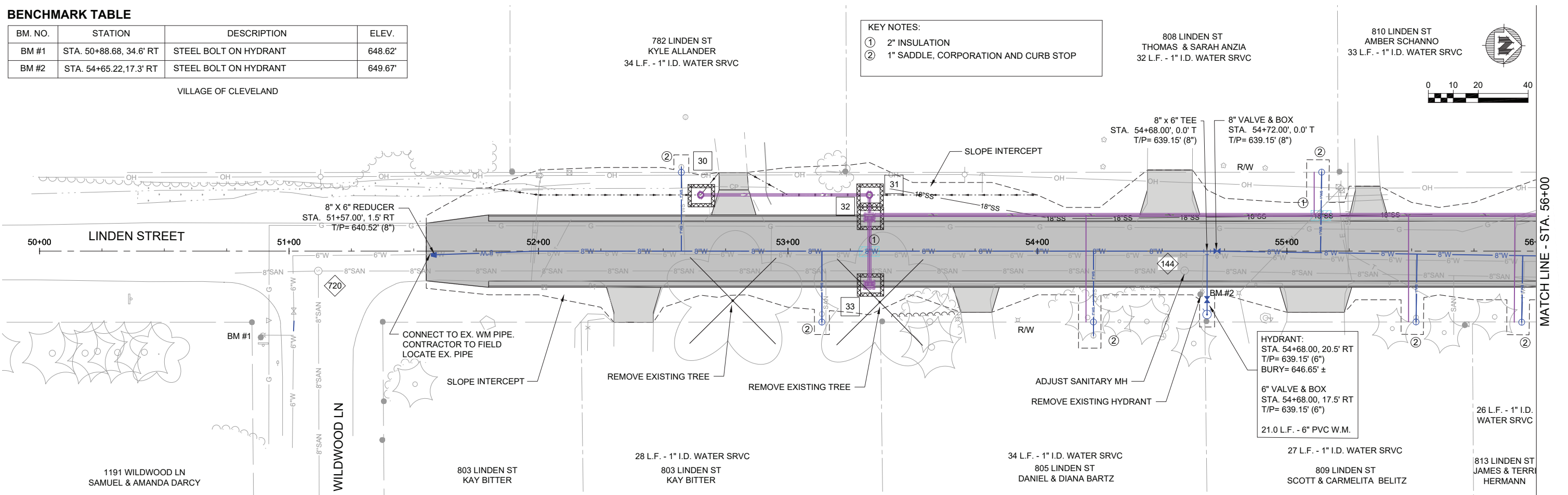
MAPLE STREET WATER & SANITARY PLAN & PROFILE

PROJECT NO. 08002035
 SHEET P 5

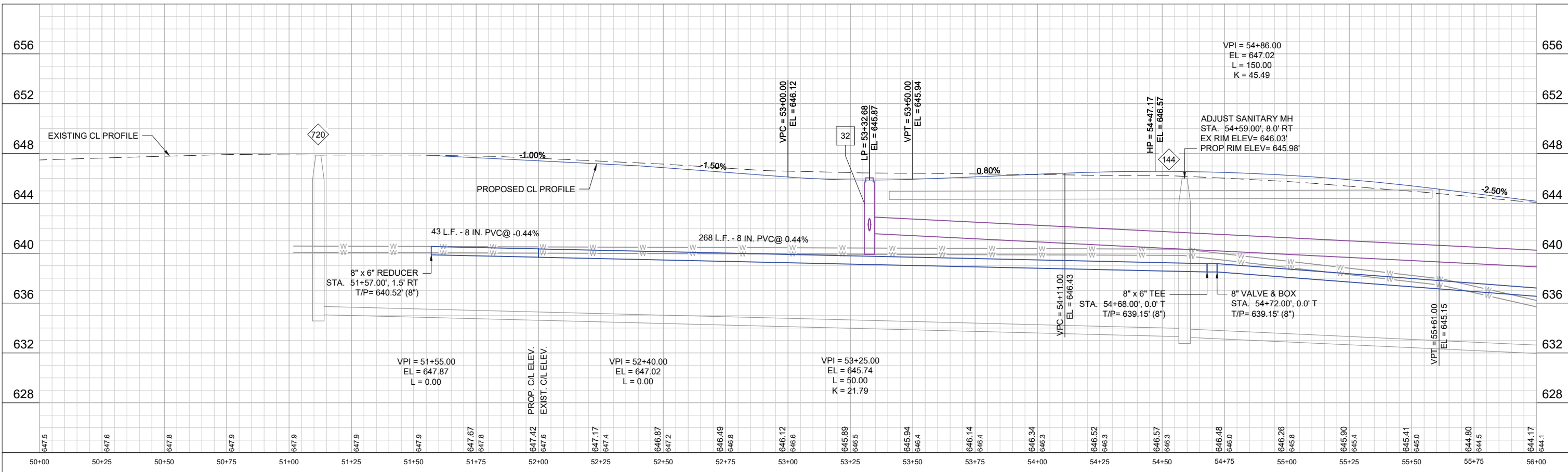
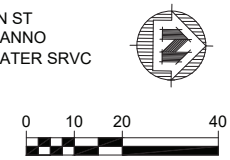
BENCHMARK TABLE

BM. NO.	STATION	DESCRIPTION	ELEV.
BM #1	STA. 50+88.68, 34.6' RT	STEEL BOLT ON HYDRANT	648.62'
BM #2	STA. 54+65.22, 17.3' RT	STEEL BOLT ON HYDRANT	649.67'

VILLAGE OF CLEVELAND



KEY NOTES:
 ① 2" INSULATION
 ② 1" SADDLE, CORPORATION AND CURB STOP



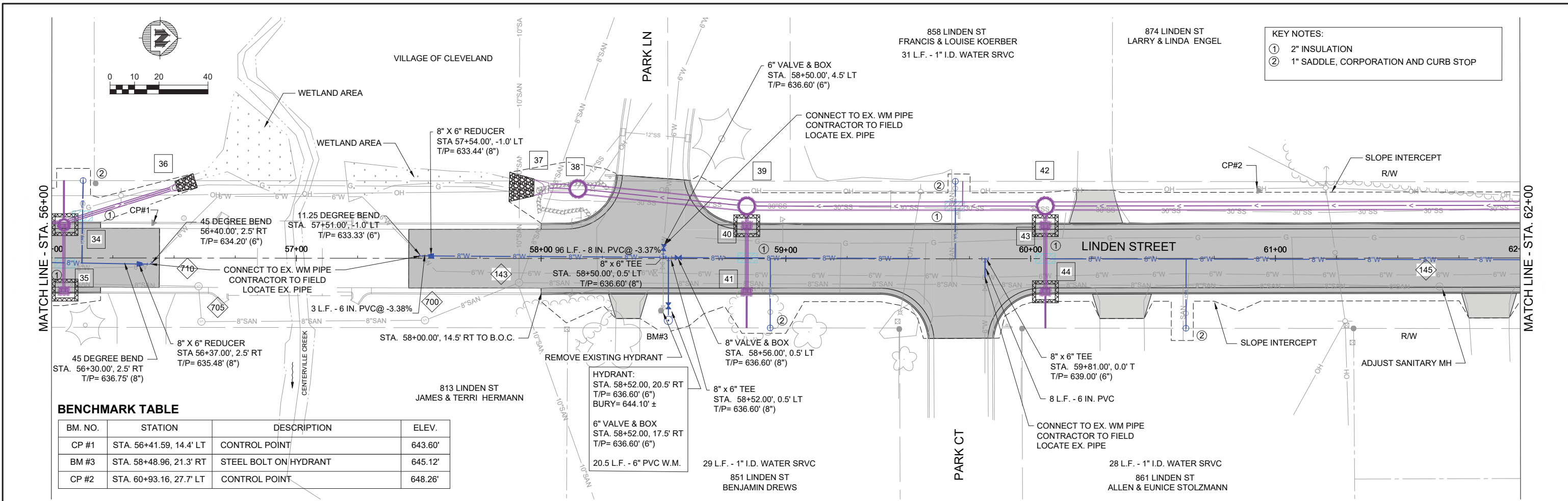
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2023 STREET AND UTILITY IMPROVEMENTS
 VILLAGE OF CLEVELAND
 MANITOWOC COUNTY, WI

LINDEN STREET WATER & SEWER PLAN & PROFILE

PROJECT NO. 08002035
 SHEET P 6



KEY NOTES:
 ① 2" INSULATION
 ② 1" SADDLE, CORPORATION AND CURB STOP

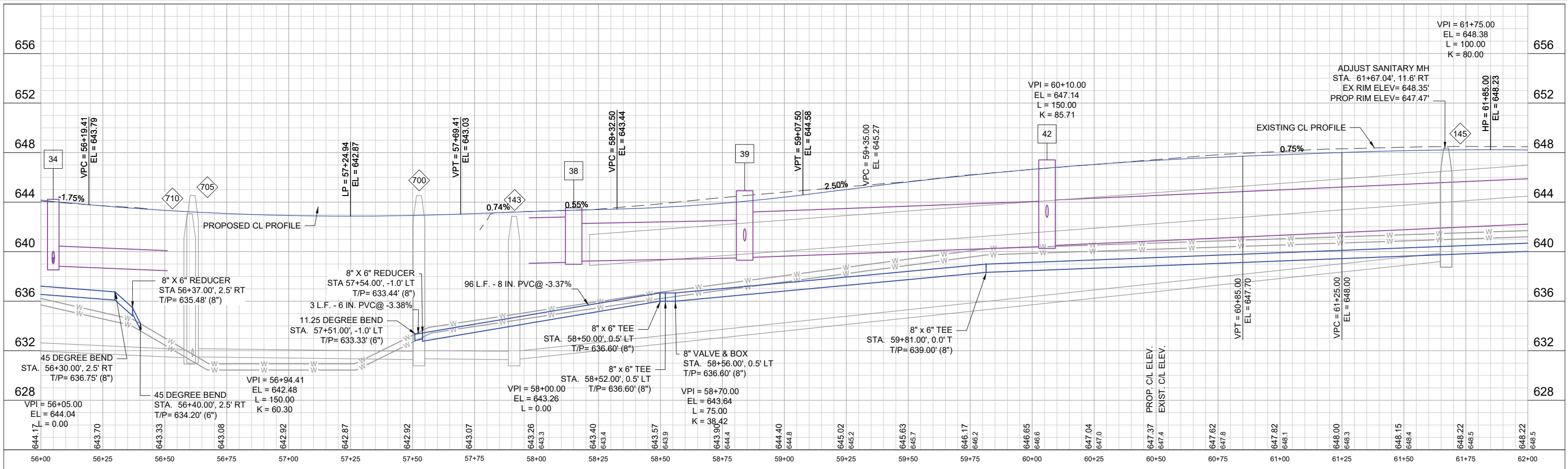
BENCHMARK TABLE

BM. NO.	STATION	DESCRIPTION	ELEV.
CP #1	STA. 56+41.59, 14.4' LT	CONTROL POINT	643.60'
BM #3	STA. 58+48.96, 21.3' RT	STEEL BOLT ON HYDRANT	645.12'
CP #2	STA. 60+93.16, 27.7' LT	CONTROL POINT	648.26'

HYDRANT:
 STA. 58+52.00, 20.5' RT
 T/P= 636.60' (6")
 BURY= 644.10' ±
6" VALVE & BOX
 STA. 58+52.00, 17.5' RT
 T/P= 636.60' (6")
 20.5 L.F. - 6" PVC W.M.

29 L.F. - 1" I.D. WATER SRVC
 851 LINDEN ST
 BENJAMIN DREWS

28 L.F. - 1" I.D. WATER SRVC
 861 LINDEN ST
 ALLEN & EUNICE STOLZMANN



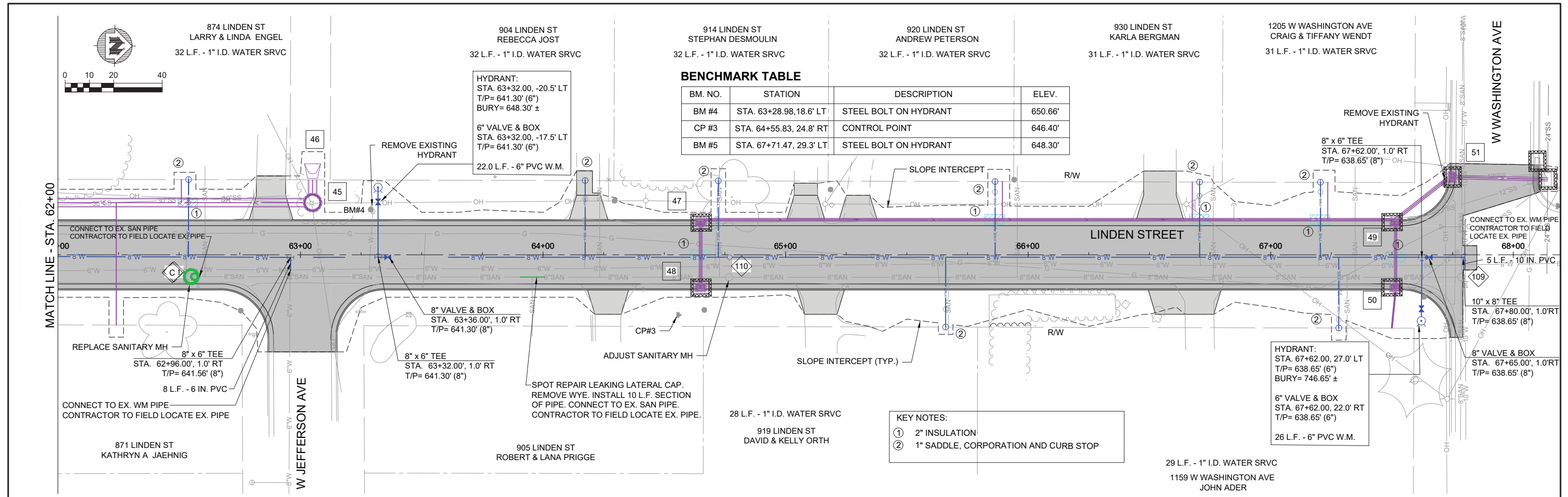
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 VILLAGE OF CLEVELAND
 MANITOWOC COUNTY, WI

LINDEN STREET WATER & SEWER PLAN & PROFILE

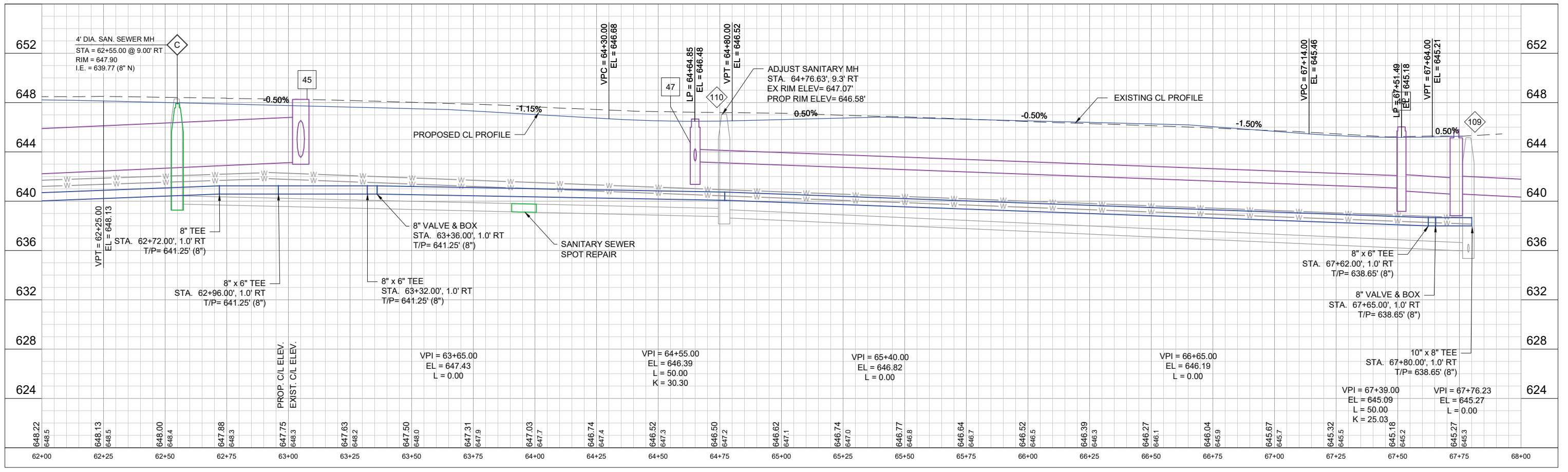
PROJECT NO.
08002035
 SHEET
P 7



BENCHMARK TABLE

BM. NO.	STATION	DESCRIPTION	ELEV.
BM #4	STA. 63+28.98, 18.6' LT	STEEL BOLT ON HYDRANT	650.66'
CP #3	STA. 64+55.83, 24.8' RT	CONTROL POINT	646.40'
BM #5	STA. 67+71.47, 29.3' LT	STEEL BOLT ON HYDRANT	648.30'

- KEY NOTES:**
- ① 2" INSULATION
 - ② 1" SADDLE, CORPORATION AND CURB STOP



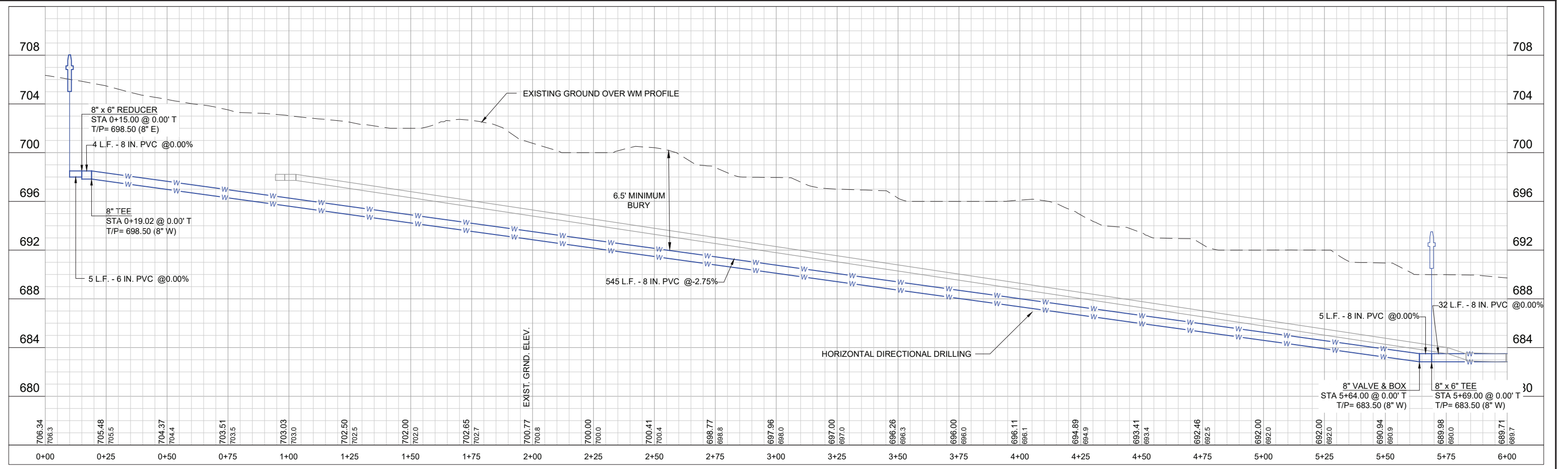
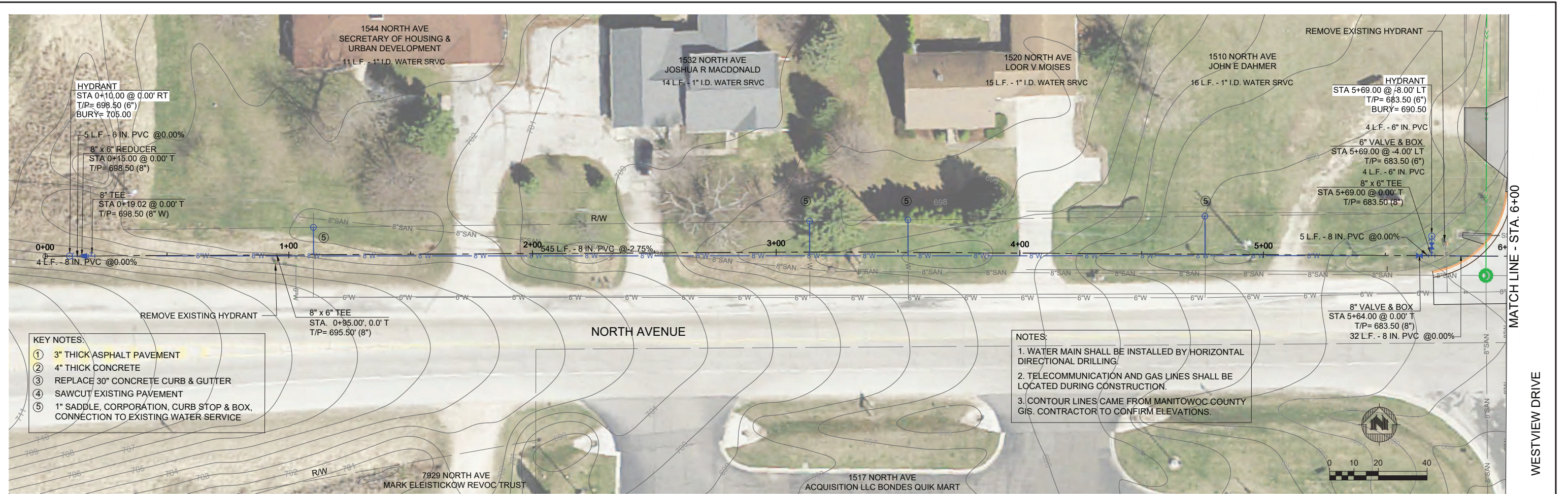
PROJECT DATE:	NO.	DATE	REVISION	BY
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 VILLAGE OF CLEVELAND
 MANITOWOC COUNTY, WI

LINDEN STREET WATER & SEWER PLAN & PROFILE

PROJECT NO. 08002035
 SHEET P 8

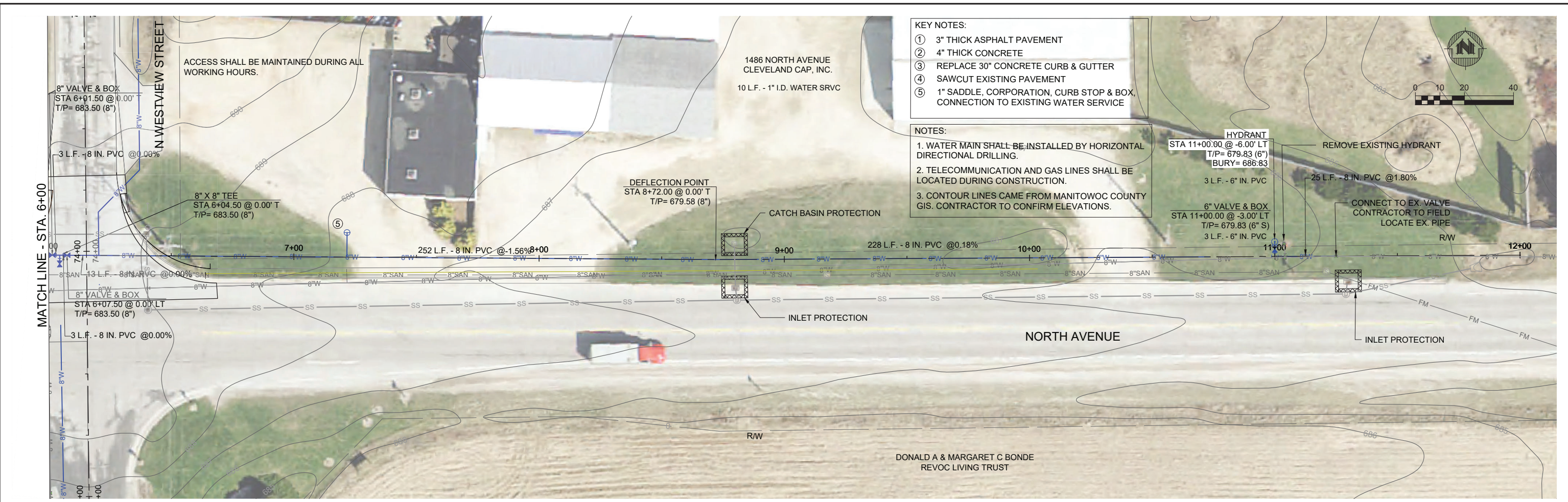


PROJECT DATE:	DRAWN BY:	NO.	DATE	REVISION	BY:
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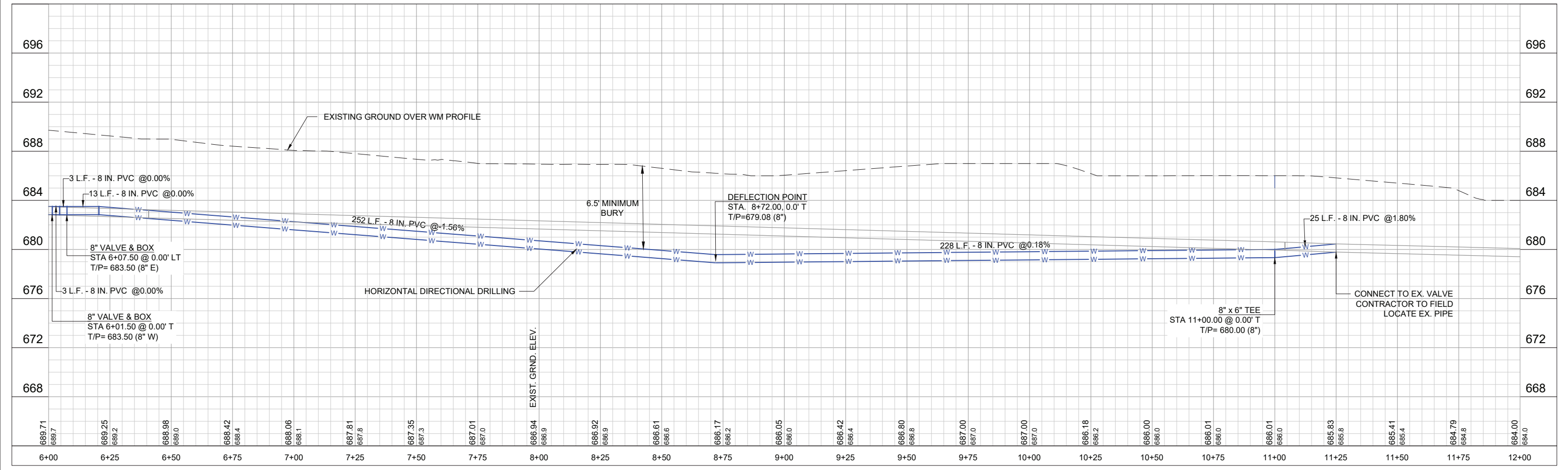
2023 STREET AND UTILITY IMPROVEMENTS
 VILLAGE OF CLEVELAND
 MANITOWOC COUNTY, WISCONSIN

NORTH AVE WEST WATER MAIN PLAN AND PROFILE



- KEY NOTES:
- ① 3" THICK ASPHALT PAVEMENT
 - ② 4" THICK CONCRETE
 - ③ REPLACE 30" CONCRETE CURB & GUTTER
 - ④ SAWCUT EXISTING PAVEMENT
 - ⑤ 1" SADDLE, CORPORATION, CURB STOP & BOX, CONNECTION TO EXISTING WATER SERVICE

- NOTES:
1. WATER MAIN SHALL BE INSTALLED BY HORIZONTAL DIRECTIONAL DRILLING.
 2. TELECOMMUNICATION AND GAS LINES SHALL BE LOCATED DURING CONSTRUCTION.
 3. CONTOUR LINES CAME FROM MANITOWOC COUNTY GIS. CONTRACTOR TO CONFIRM ELEVATIONS.



PROJECT DATE:	DRAWN BY:	NO.	DATE	REVISION	BY:
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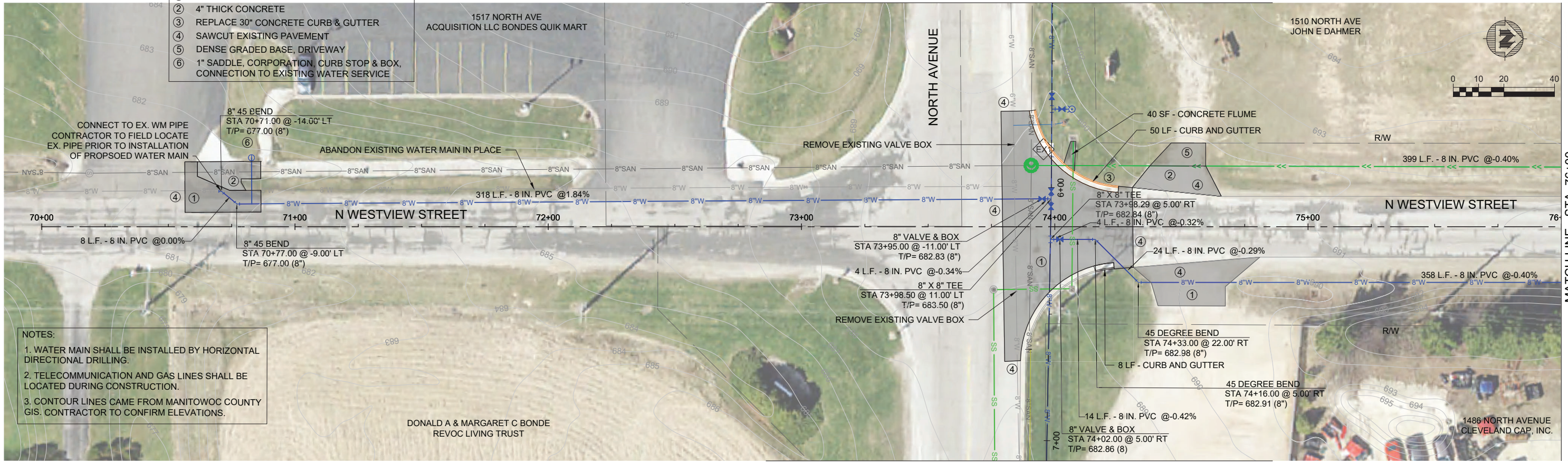
2023 STREET AND UTILITY IMPROVEMENTS
 VILLAGE OF CLEVELAND
 MANITOWOC COUNTY, WISCONSIN

NORTH AVE WEST WATER MAIN PLAN AND PROFILE

PROJECT NO.
08002035
 SHEET
P 10

PLOT DATE: 2/27/2023 1:00 PM, G:\08\08002\08002035\CADD\Construction Documents\North Ave West P&P.dwg

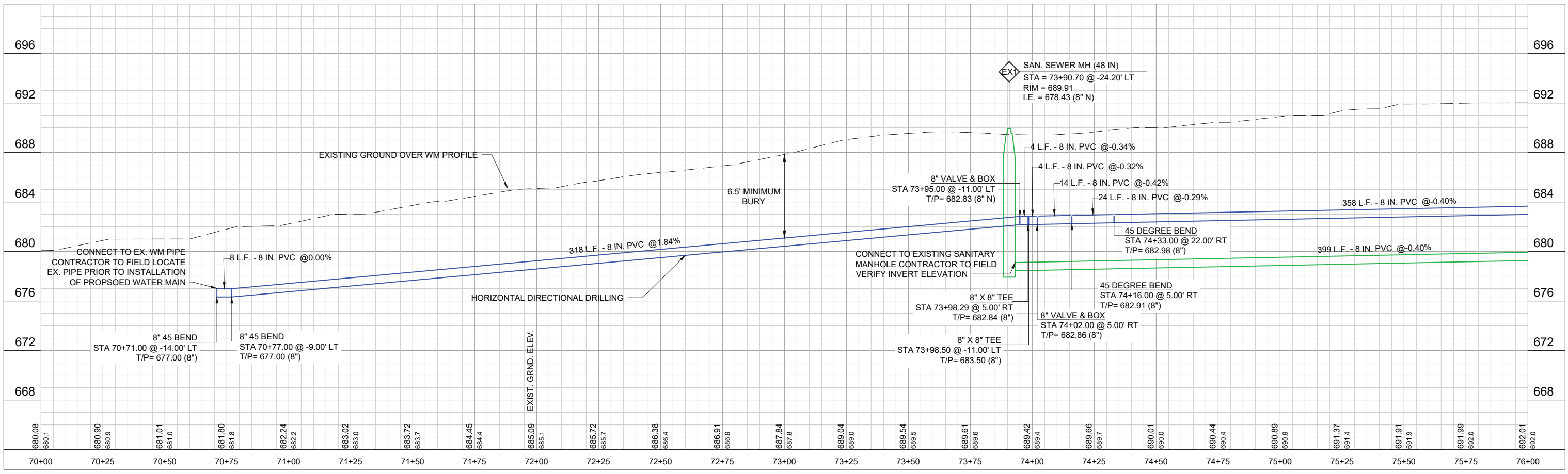
- KEY NOTES:**
- ① 3" THICK ASPHALT PAVEMENT
 - ② 4" THICK CONCRETE
 - ③ REPLACE 30" CONCRETE CURB & GUTTER
 - ④ SAWCUT EXISTING PAVEMENT
 - ⑤ DENSE GRADED BASE, DRIVEWAY
 - ⑥ 1" SADDLE, CORPORATION CURB STOP & BOX, CONNECTION TO EXISTING WATER SERVICE



- NOTES:**
- 1. WATER MAIN SHALL BE INSTALLED BY HORIZONTAL DIRECTIONAL DRILLING.
 - 2. TELECOMMUNICATION AND GAS LINES SHALL BE LOCATED DURING CONSTRUCTION.
 - 3. CONTOUR LINES CAME FROM MANITOWOC COUNTY GIS. CONTRACTOR TO CONFIRM ELEVATIONS.

MATCH LINE - SEE SHEET P9

MATCH LINE - SEE SHEET P9



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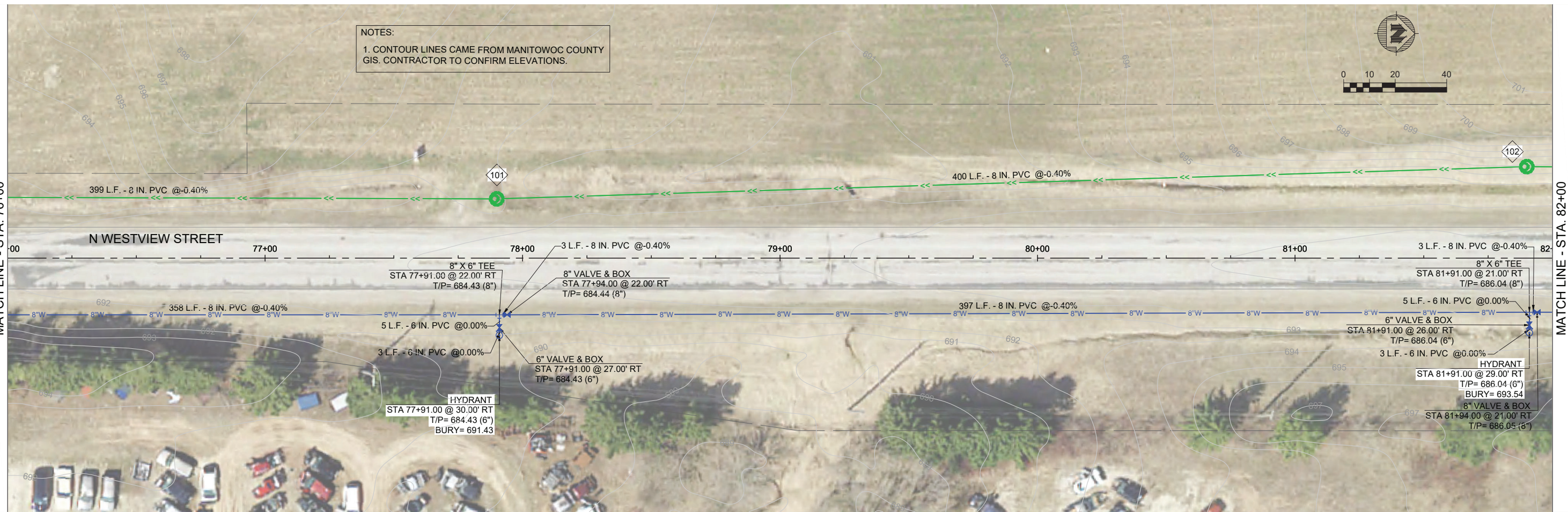
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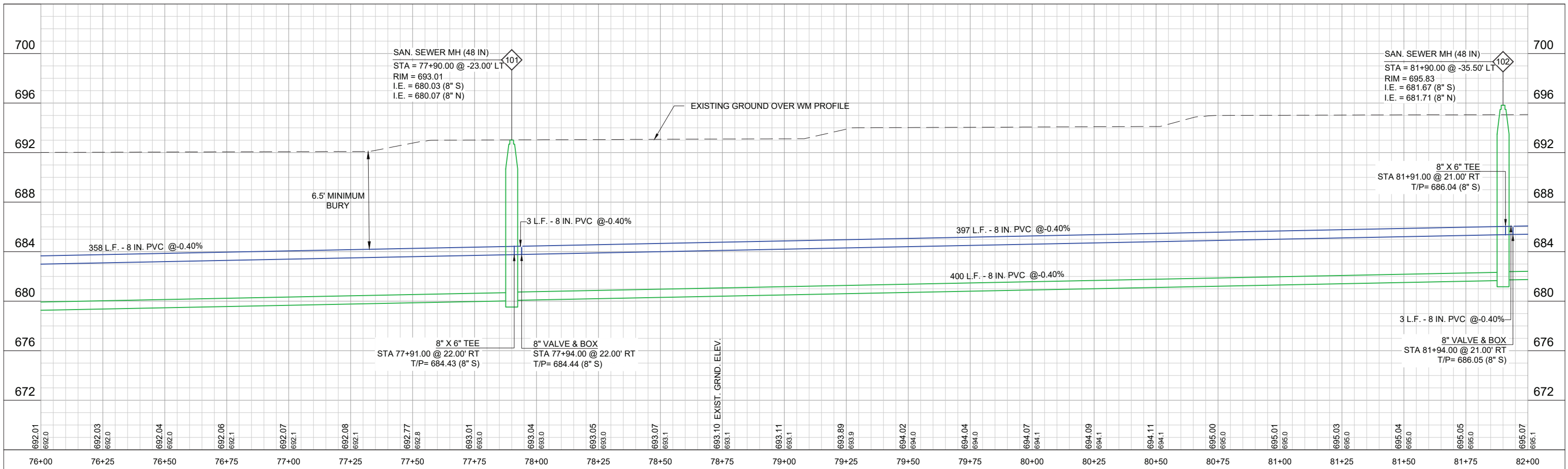
WESTVIEW STREET WATER & SEWER PLAN & PROFILE

PROJECT NO.
08002035
 SHEET
P 11

PLOT DATE: 2/27/2023 1:00 PM, G:\08\08002\08002035\CADD\Construction Documents\Westview Street P&P.dwg



NOTES:
1. CONTOUR LINES CAME FROM MANITOWOC COUNTY GIS. CONTRACTOR TO CONFIRM ELEVATIONS.



PROJECT DATE:	DRAWN BY:	NO.	DATE	REVISION	BY:
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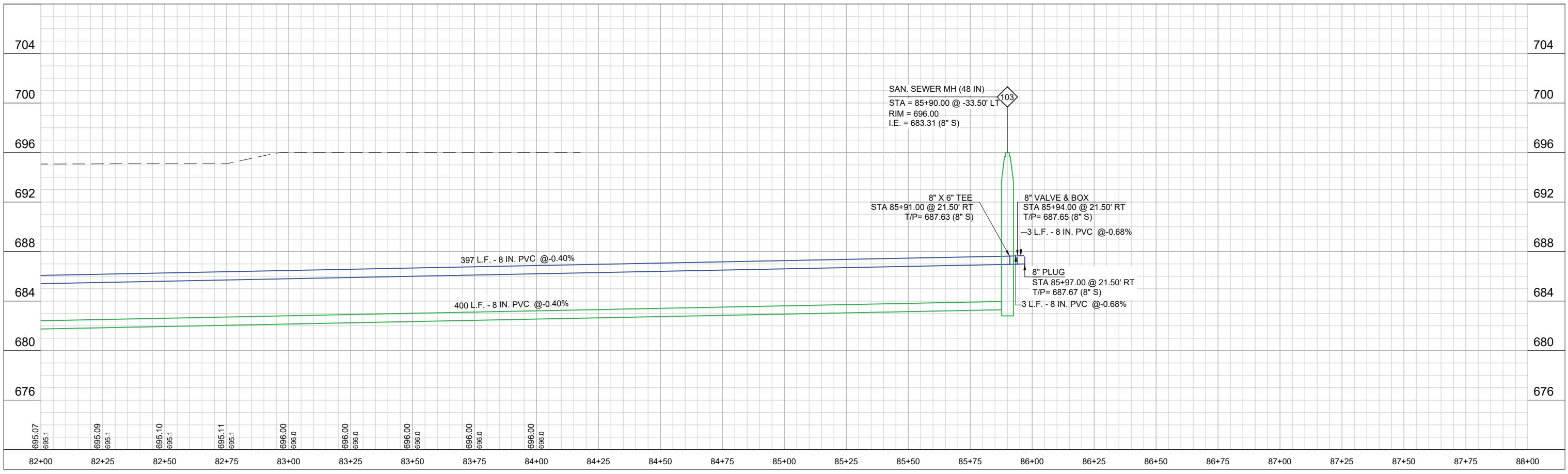
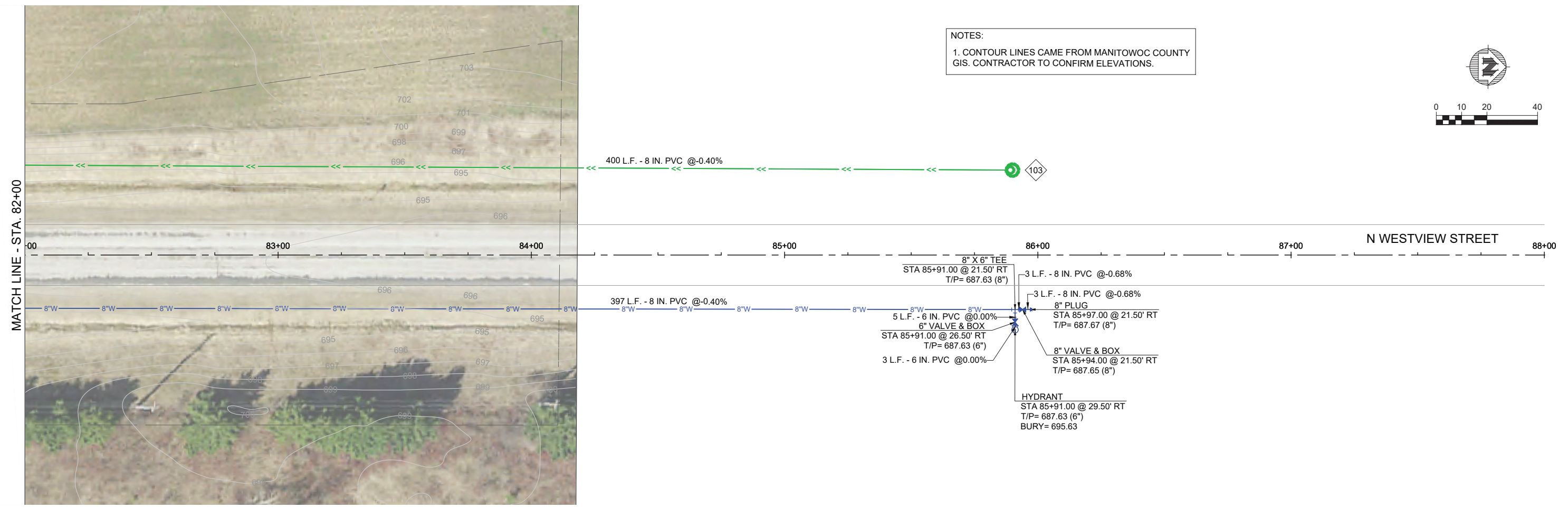
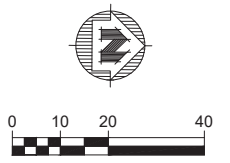
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2023 STREET AND UTILITY IMPROVEMENTS
VILLAGE OF CLEVELAND
MANITOWOC COUNTY, WISCONSIN

WESTVIEW STREET WATER & SEWER PLAN & PROFILE

PROJECT NO.
08002035
SHEET
P 12

NOTES:
 1. CONTOUR LINES CAME FROM MANITOWOC COUNTY GIS. CONTRACTOR TO CONFIRM ELEVATIONS.



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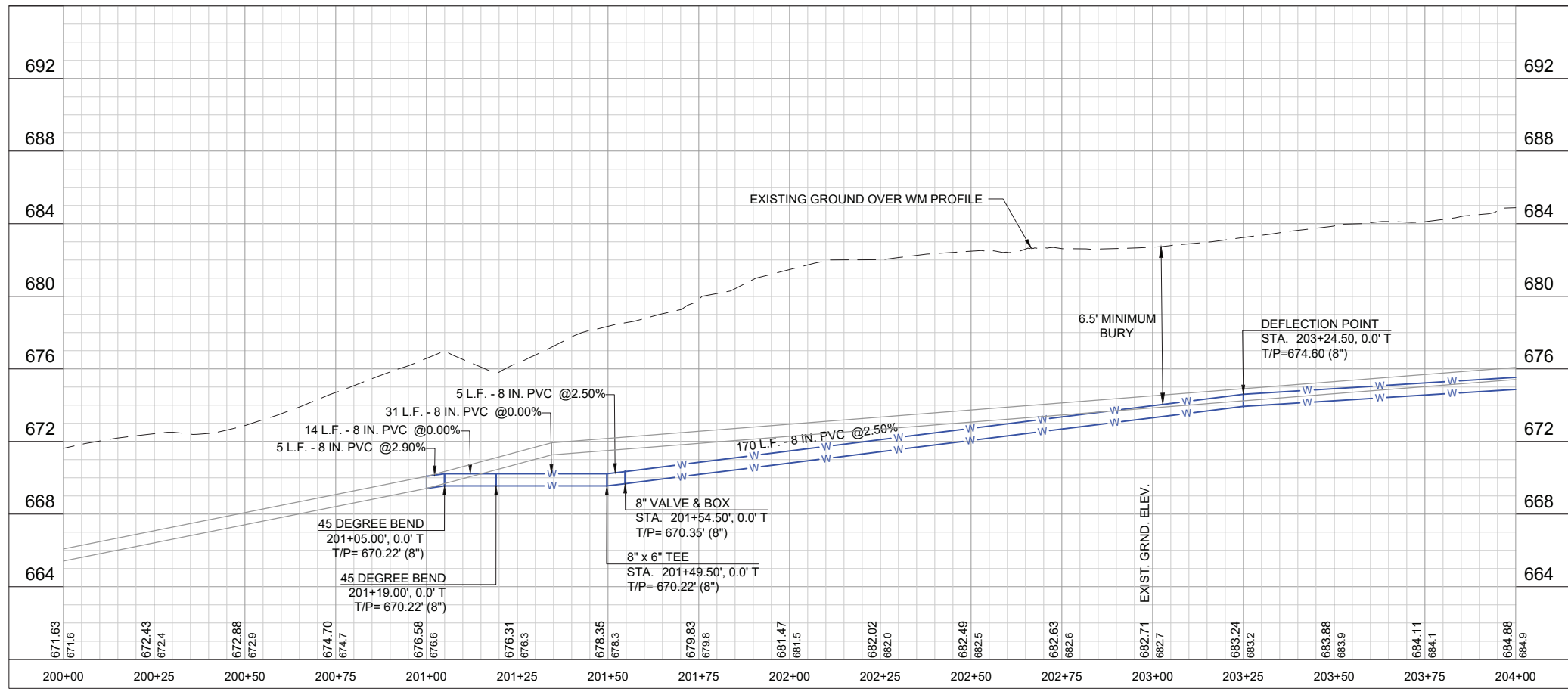
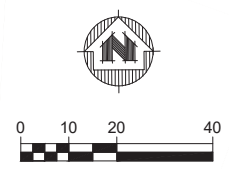
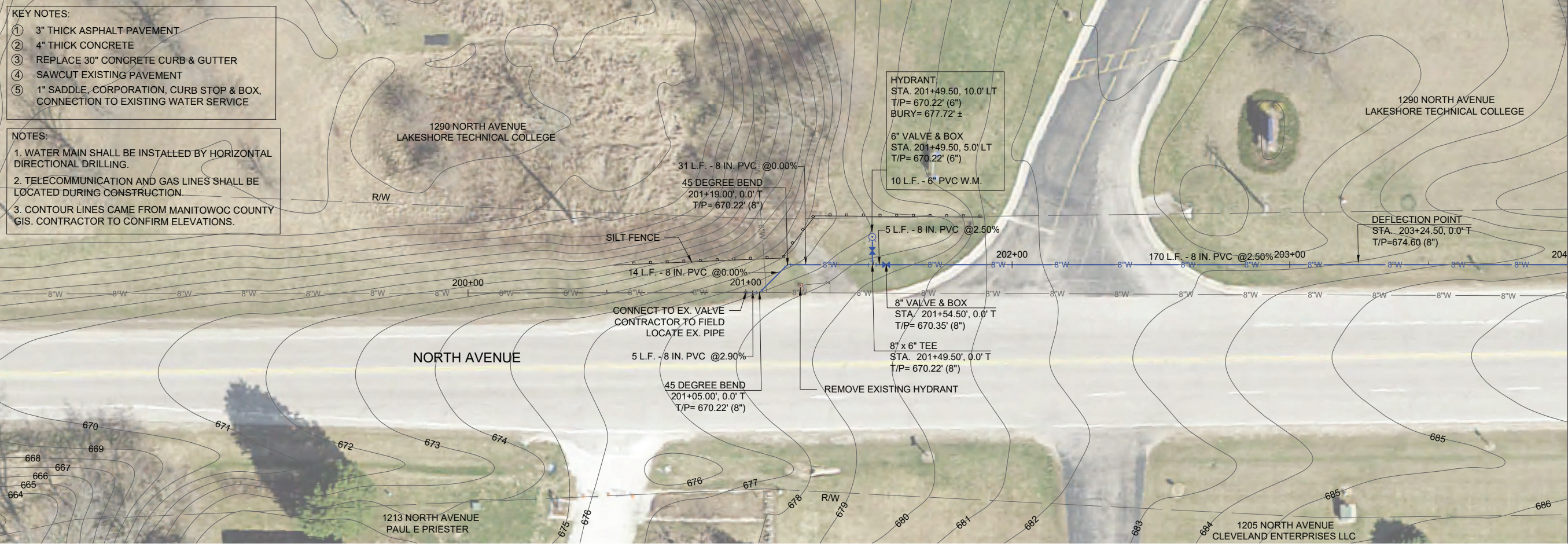
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 VILLAGE OF CLEVELAND
 MANITOWOC COUNTY, WISCONSIN

WESTVIEW STREET WATER & SEWER PLAN & PROFILE

PROJECT NO.
08002035
 SHEET
P 13

- KEY NOTES:**
- ① 3" THICK ASPHALT PAVEMENT
 - ② 4" THICK CONCRETE
 - ③ REPLACE 30" CONCRETE CURB & GUTTER
 - ④ SAWCUT EXISTING PAVEMENT
 - ⑤ 1" SADDLE, CORPORATION, CURB STOP & BOX, CONNECTION TO EXISTING WATER SERVICE

- NOTES:**
1. WATER MAIN SHALL BE INSTALLED BY HORIZONTAL DIRECTIONAL DRILLING.
 2. TELECOMMUNICATION AND GAS LINES SHALL BE LOCATED DURING CONSTRUCTION.
 3. CONTOUR LINES CAME FROM MANITOWOC COUNTY GIS. CONTRACTOR TO CONFIRM ELEVATIONS.



PROJECT DATE:	DRAWN BY:	NO.	DATE	REVISION	BY:
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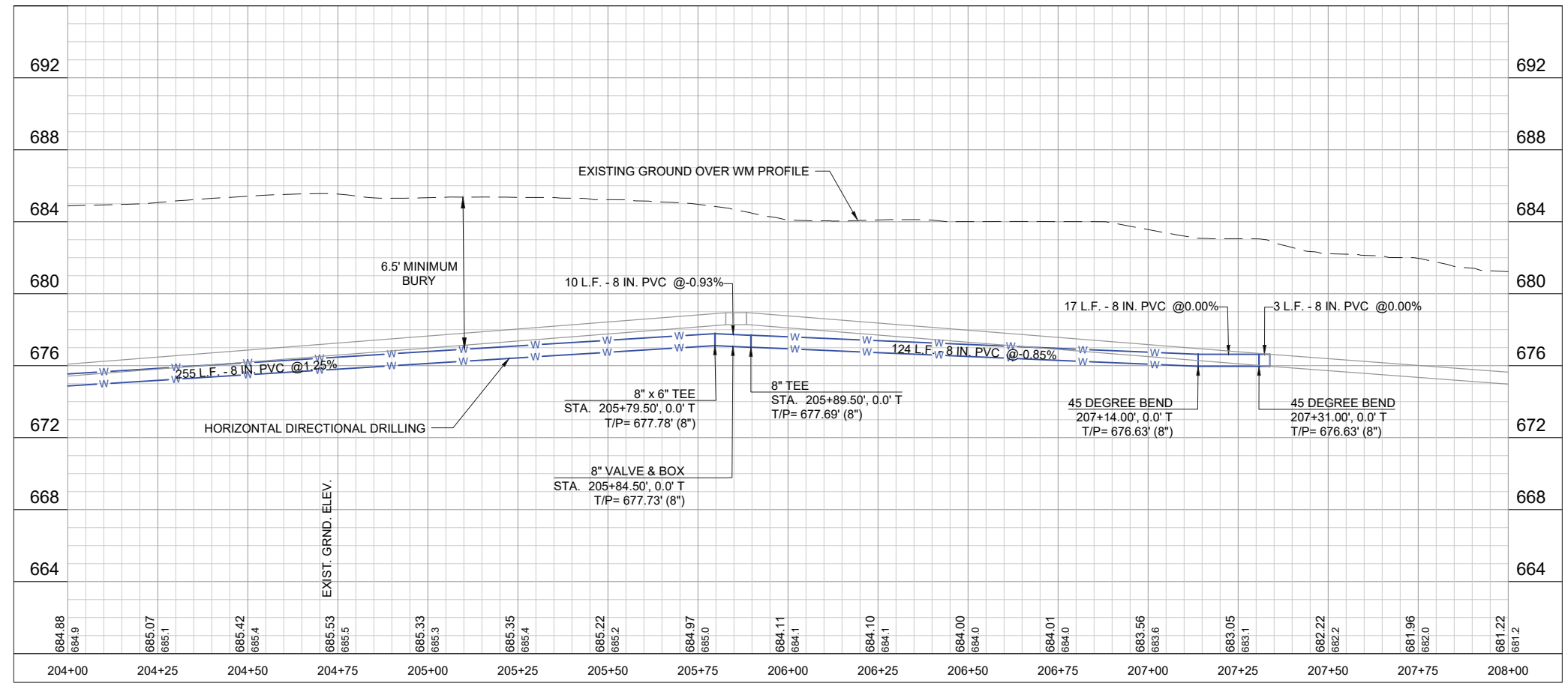
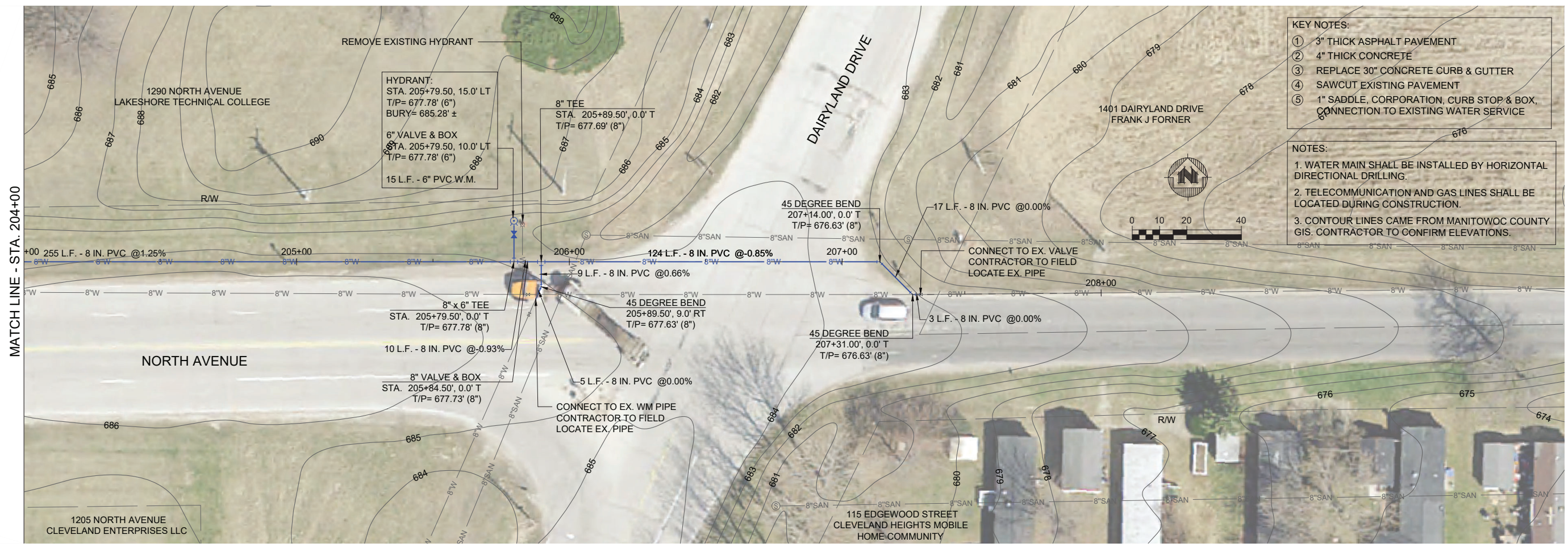
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2023 STREET AND UTILITY IMPROVEMENTS
 VILLAGE OF CLEVELAND
 MANITOWOC COUNTY, WISCONSIN

NORTH AVE EAST WATER MAIN PLAN AND PROFILE

PROJECT NO.
08002035
 SHEET
P 14

PLOT DATE: 2/27/2023 1:01 PM, G:\08\08002\08002035\CADD\Construction Documents\North Ave East P&P.dwg



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2023 STREET AND UTILITY IMPROVEMENTS
 VILLAGE OF CLEVELAND
 MANITOWOC COUNTY, WISCONSIN

NORTH AVE EAST WATER MAIN PLAN AND PROFILE

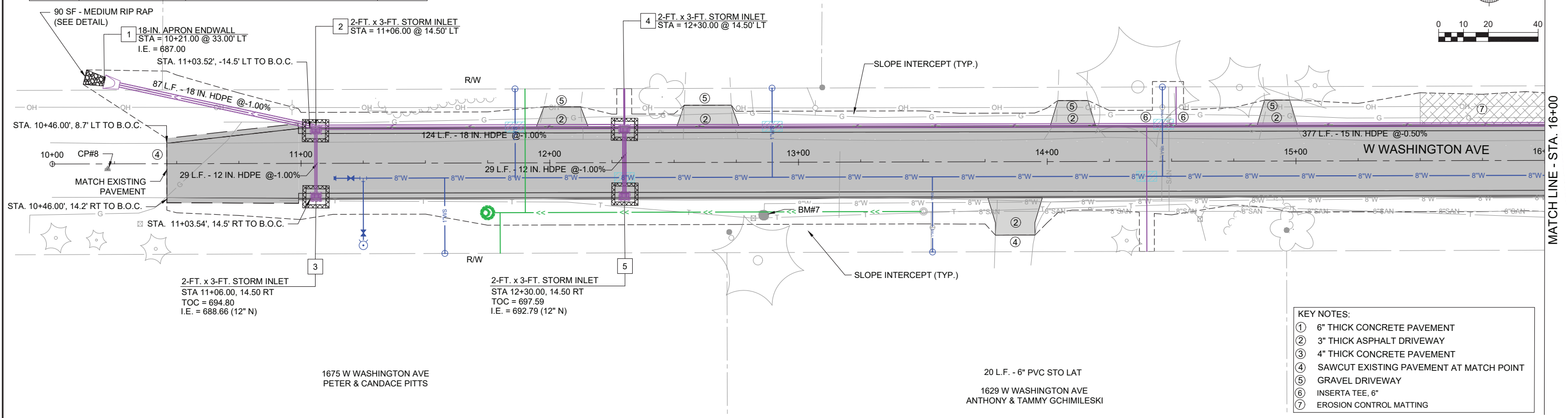
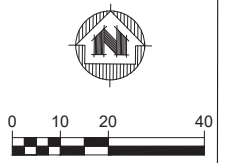
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BENCHMARK TABLE

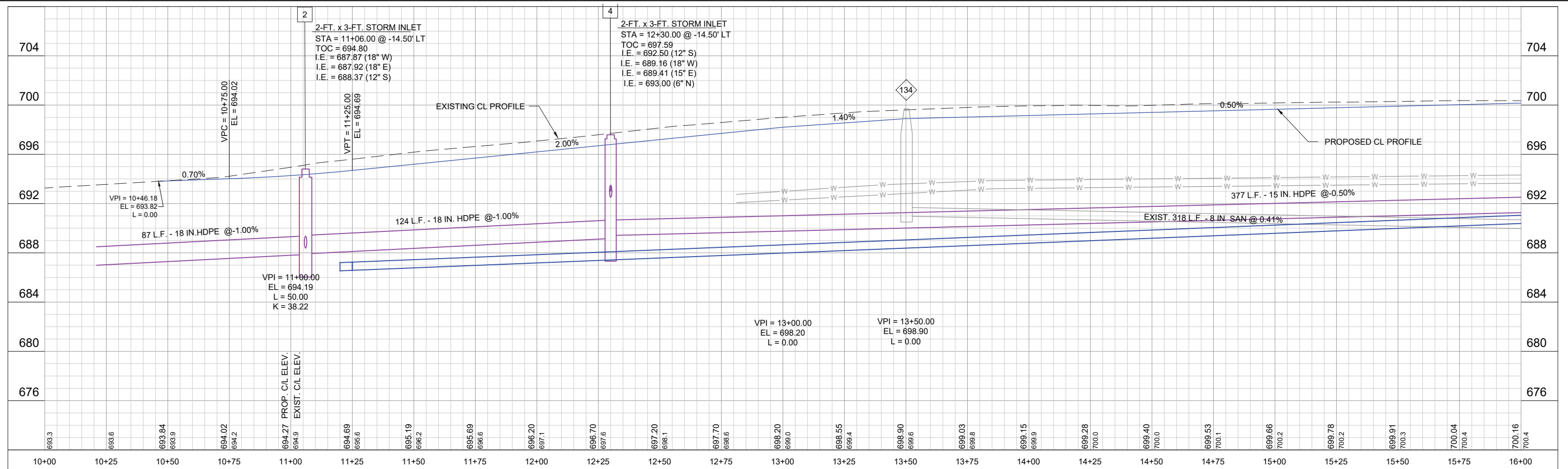
BM. NO.	STATION	DESCRIPTION	ELEV.
CP #8	STA. 10+22.2, 2.1' RT	CONTROL POINT	693.67'
BM #7	STA. 12+86.0, 21.2' RT	STEEL BOLT ON HYDRANT	702.79'

1632 W WASHINGTON AVE
MARK WIEGAND
15 L.F. - 6" PVC STO LAT

1620 W WASHINGTON AVE
WAYNE MATTHEW CLENDENIN
16 L.F. - 6" PVC STO LAT



- KEY NOTES:**
- ① 6" THICK CONCRETE PAVEMENT
 - ② 3" THICK ASPHALT DRIVEWAY
 - ③ 4" THICK CONCRETE PAVEMENT
 - ④ SAWCUT EXISTING PAVEMENT AT MATCH POINT
 - ⑤ GRAVEL DRIVEWAY
 - ⑥ INSERTA TEE, 6"
 - ⑦ EROSION CONTROL MATTING



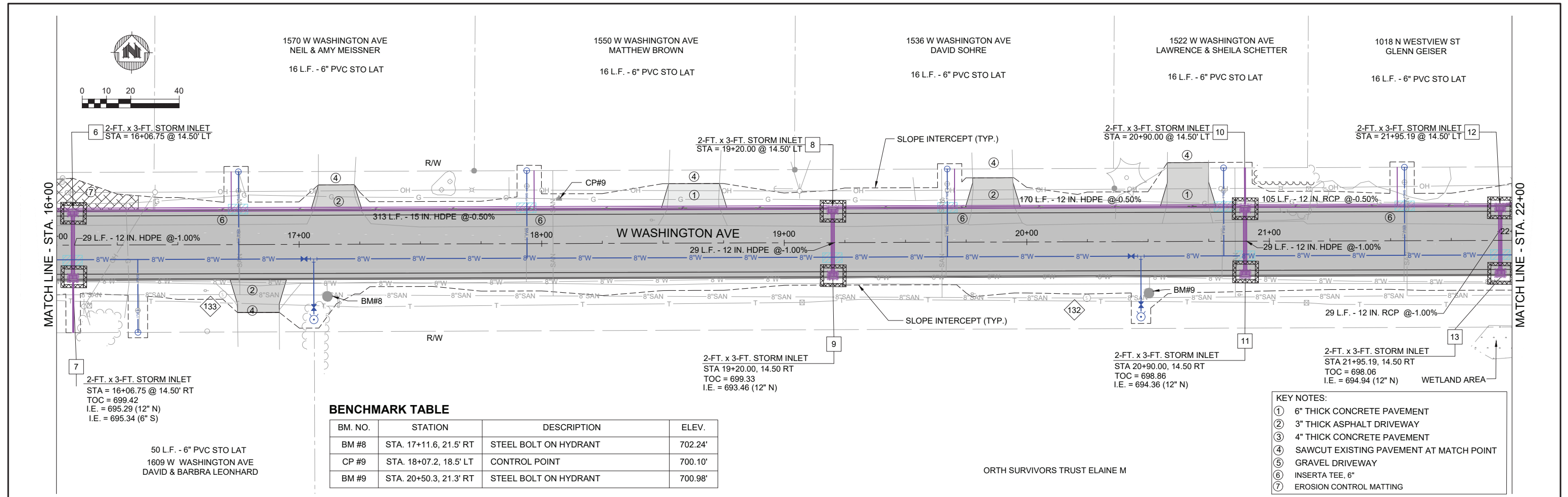
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2023 STREET AND UTILITY IMPROVEMENTS
VILLAGE OF CLEVELAND
MANITOWOC COUNTY, WI

W WASHINGTON AVE ROADWAY & STORM PLAN & PROFILE

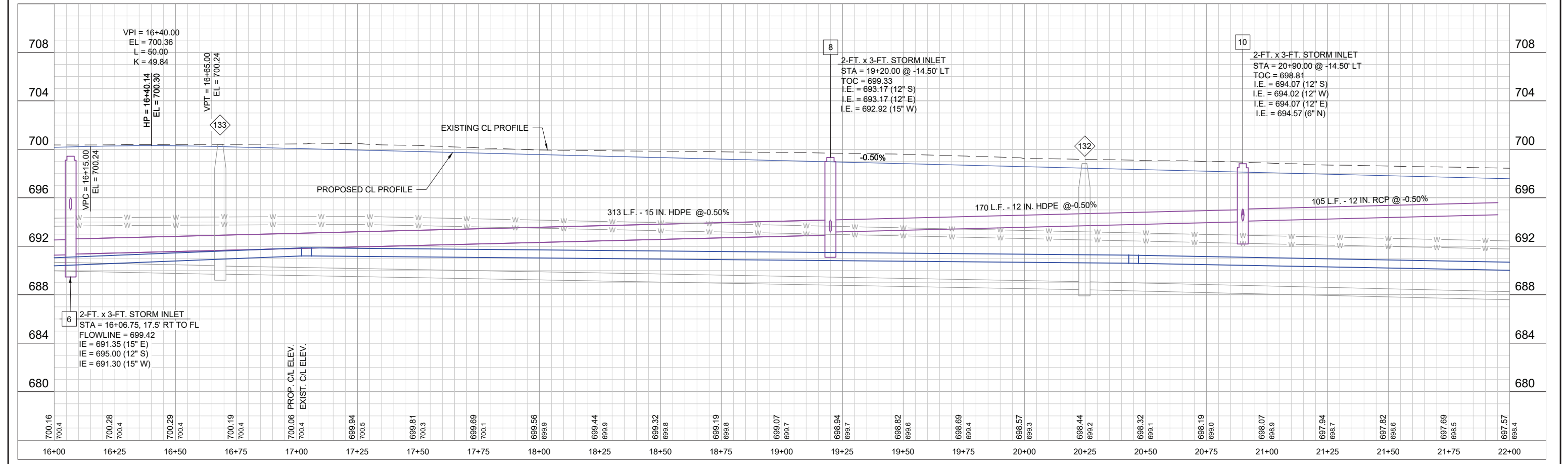
PROJECT NO.
08002035
SHEET
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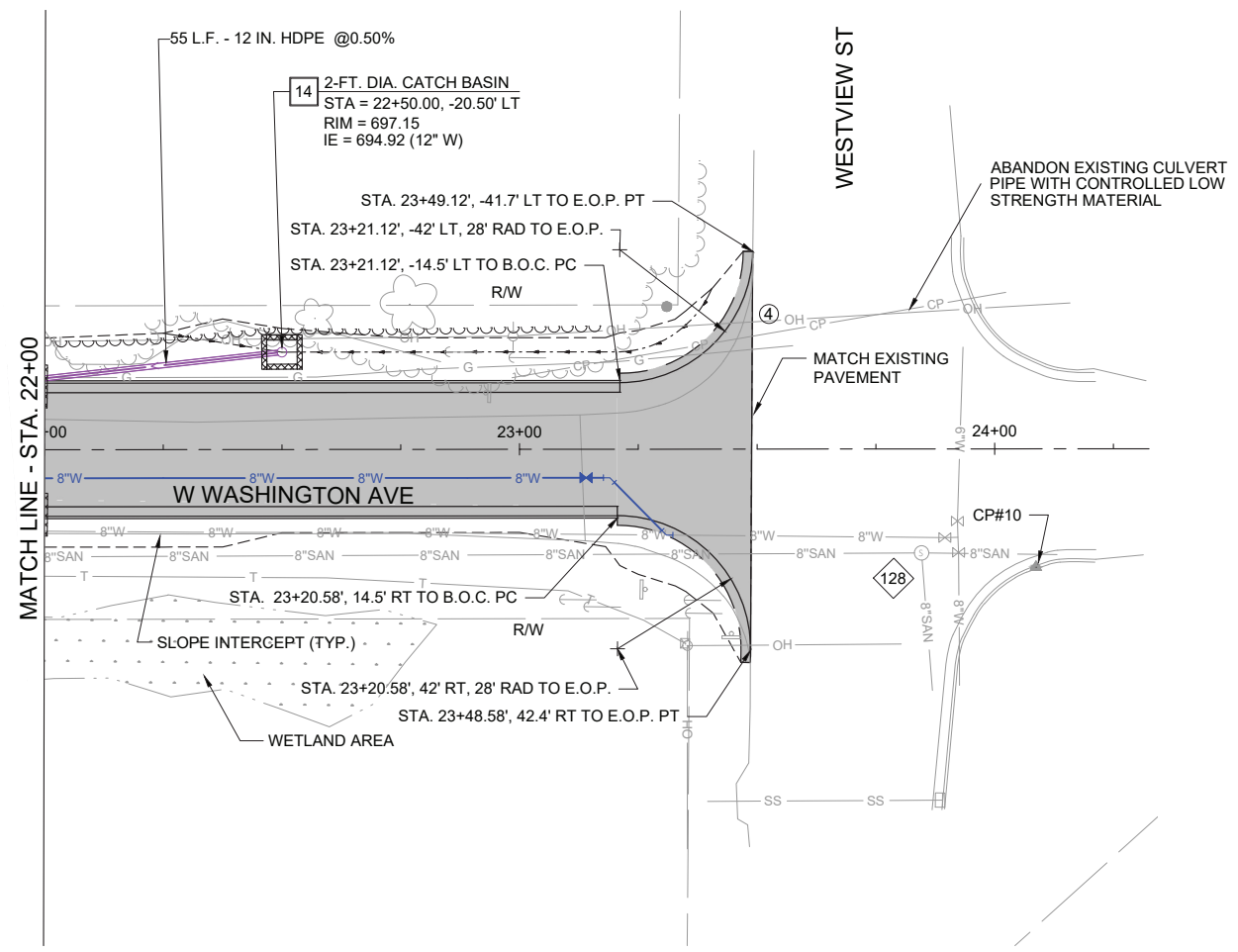


BENCHMARK TABLE

BM. NO.	STATION	DESCRIPTION	ELEV.
BM #8	STA. 17+11.6, 21.5' RT	STEEL BOLT ON HYDRANT	702.24'
CP #9	STA. 18+07.2, 18.5' LT	CONTROL POINT	700.10'
BM #9	STA. 20+50.3, 21.3' RT	STEEL BOLT ON HYDRANT	700.98'

- KEY NOTES:**
- ① 6" THICK CONCRETE PAVEMENT
 - ② 3" THICK ASPHALT DRIVEWAY
 - ③ 4" THICK CONCRETE PAVEMENT
 - ④ SAWCUT EXISTING PAVEMENT AT MATCH POINT
 - ⑤ GRAVEL DRIVEWAY
 - ⑥ INSERTA TEE, 6"
 - ⑦ EROSION CONTROL MATTING

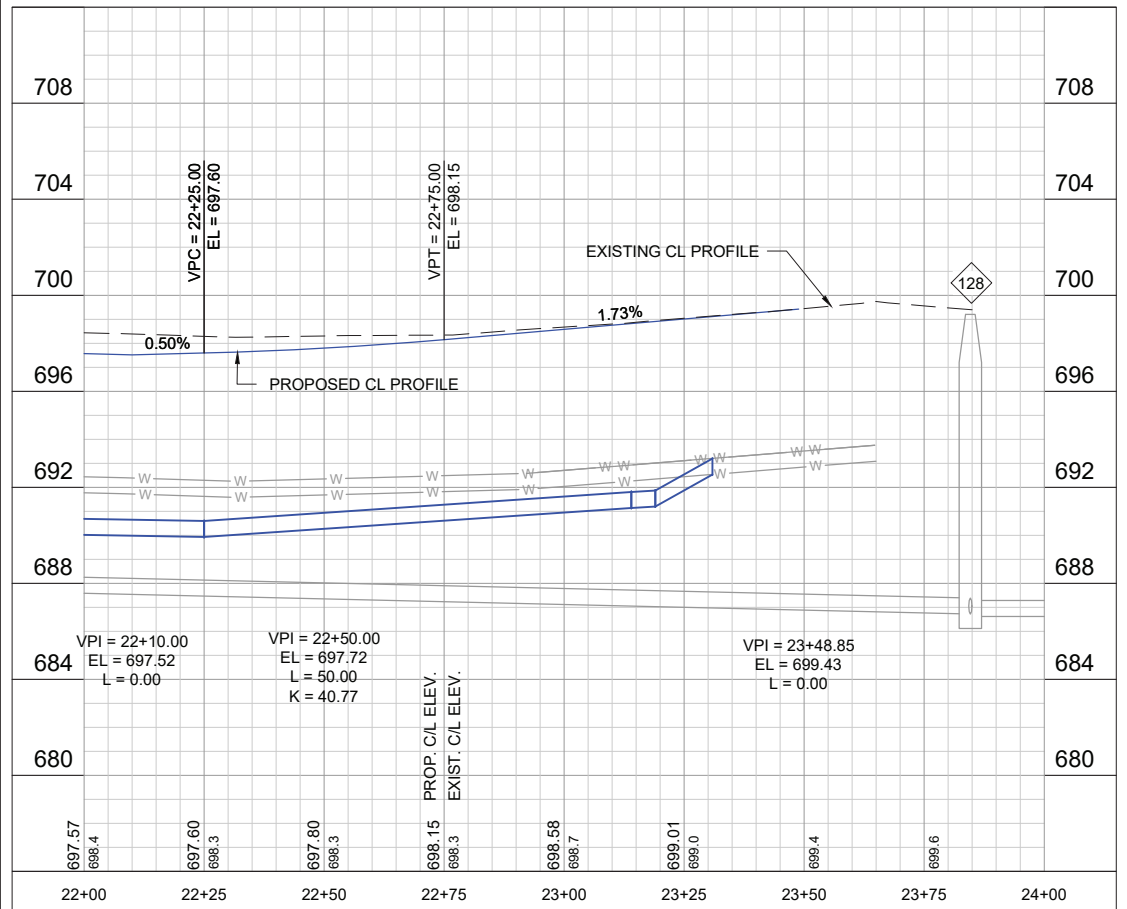




BENCHMARK TABLE

BM. NO.	STATION	DESCRIPTION	ELEV.
CP #10	STA. 24+08.6, 24.9' RT	CONTROL POINT	699.14'

- KEY NOTES:**
- ① 6" THICK CONCRETE PAVEMENT
 - ② 3" THICK ASPHALT DRIVEWAY
 - ③ 4" THICK CONCRETE PAVEMENT
 - ④ SAWCUT EXISTING PAVEMENT AT MATCH POINT
 - ⑤ GRAVEL DRIVEWAY
 - ⑥ INSERTA TEE, 6"
 - ⑦ EROSION CONTROL MATTING



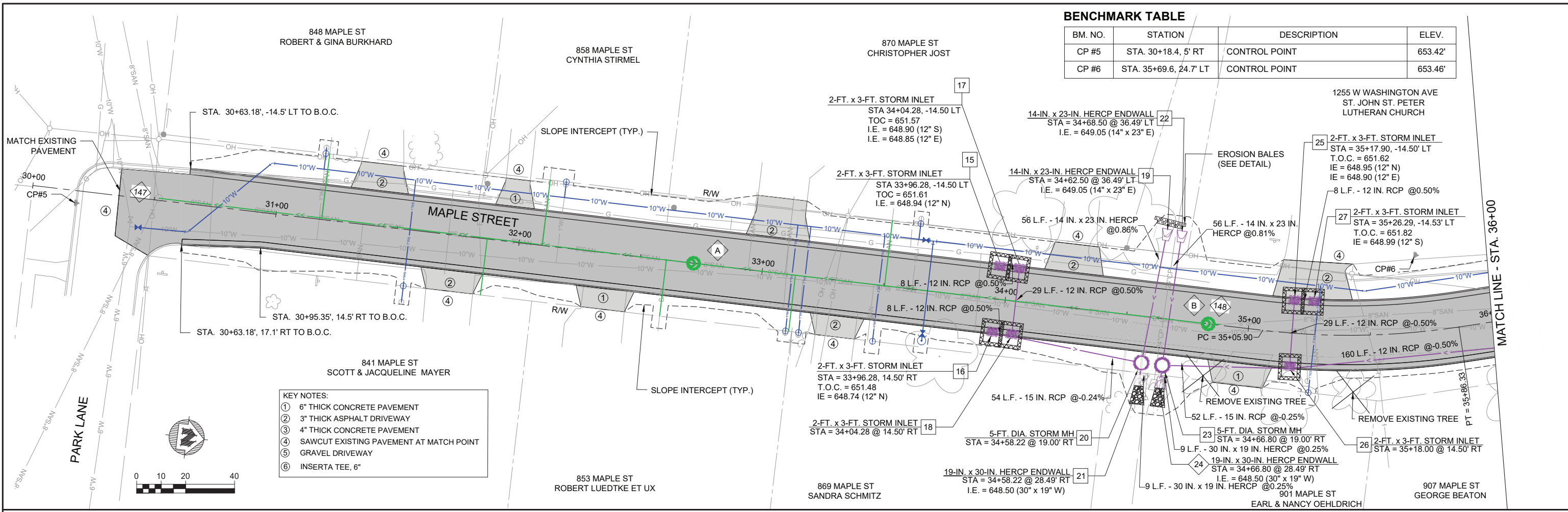
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	DESIGNED BY: DWR	-	-	-	-
	CHECKED BY: DWR	-	-	-	-

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2023 STREET AND UTILITY IMPROVEMENTS
 VILLAGE OF CLEVELAND
 MANITOWOC COUNTY, WI

W WASHINGTON AVE ROADWAY & STORM PLAN & PROFILE

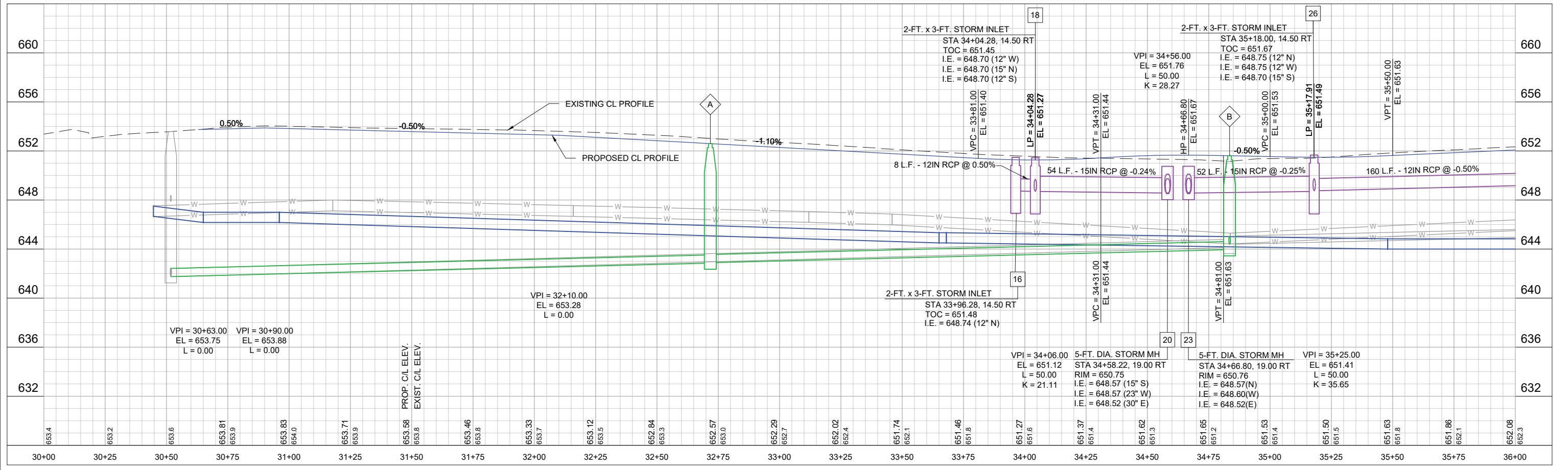
PROJECT NO.
08002035
 SHEET
R 3



BENCHMARK TABLE

BM. NO.	STATION	DESCRIPTION	ELEV.
CP #5	STA. 30+18.4, 5' RT	CONTROL POINT	653.42'
CP #6	STA. 35+69.6, 24.7' LT	CONTROL POINT	653.46'

- KEY NOTES:**
- ① 6" THICK CONCRETE PAVEMENT
 - ② 3" THICK ASPHALT DRIVEWAY
 - ③ 4" THICK CONCRETE PAVEMENT
 - ④ SAWCUT EXISTING PAVEMENT AT MATCH POINT
 - ⑤ GRAVEL DRIVEWAY
 - ⑥ INSERTA TEE, 6"



PROJECT DATE:	NO.	DATE	REVISION	BY
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	2			
	3			

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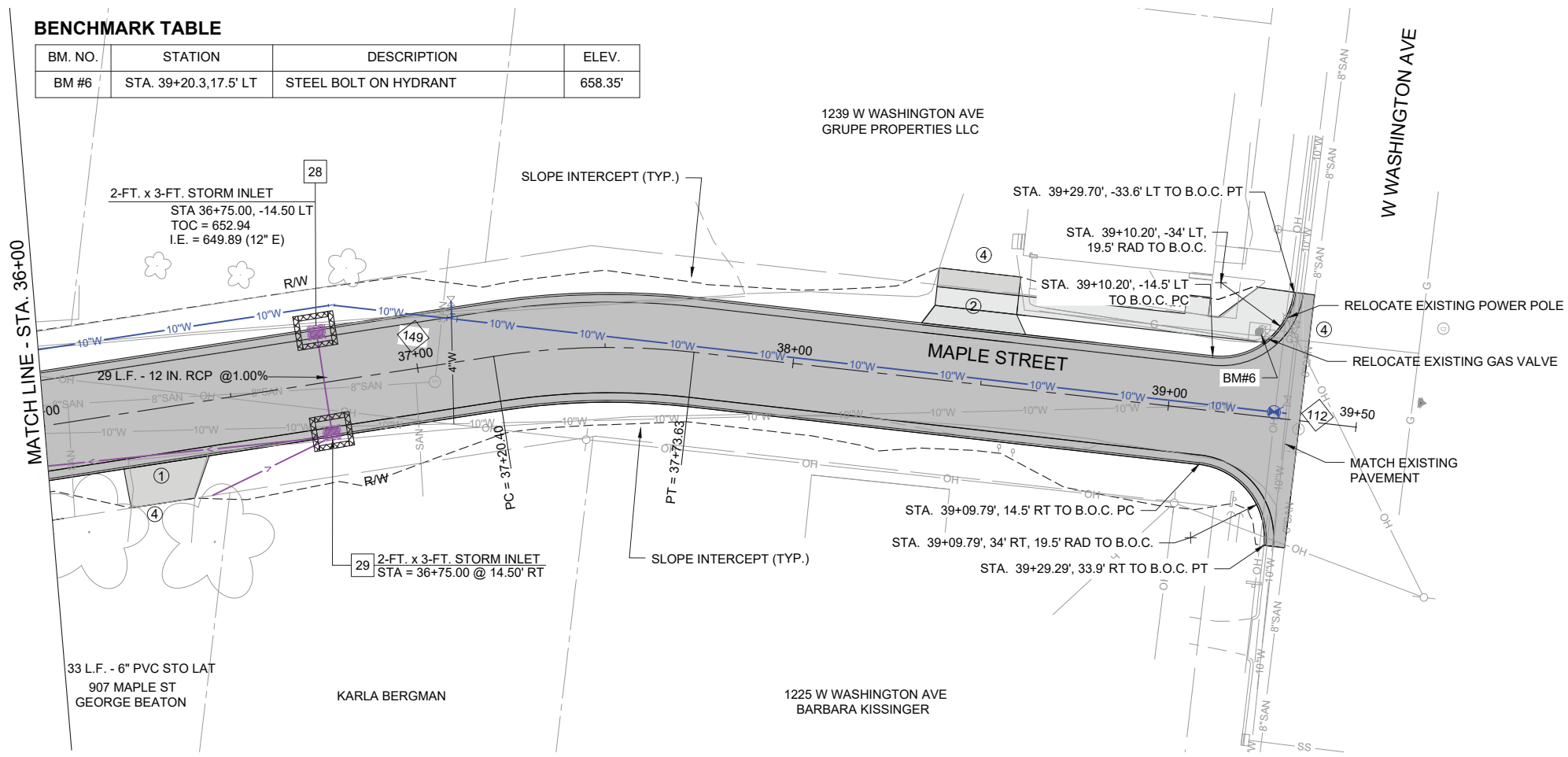
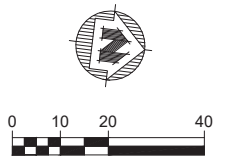
2023 STREET AND UTILITY IMPROVEMENTS
 VILLAGE OF CLEVELAND
 MANITOWOC COUNTY, WI

MAPLE STREET ROADWAY & STORM PLAN & PROFILE

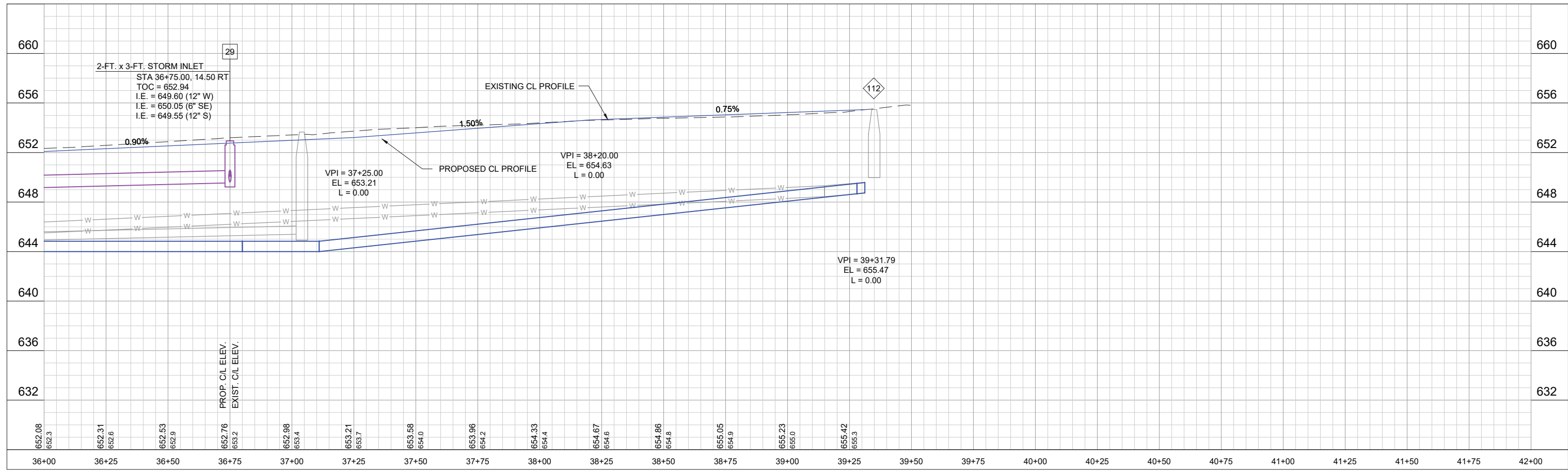
PROJECT NO.
08002035
 SHEET
R 4

BENCHMARK TABLE

BM. NO.	STATION	DESCRIPTION	ELEV.
BM #6	STA. 39+20.3, 17.5' LT	STEEL BOLT ON HYDRANT	658.35'



- KEY NOTES:**
- ① 6" THICK CONCRETE PAVEMENT
 - ② 3" THICK ASPHALT DRIVEWAY
 - ③ 4" THICK CONCRETE PAVEMENT
 - ④ SAWCUT EXISTING PAVEMENT AT MATCH POINT
 - ⑤ GRAVEL DRIVEWAY
 - ⑥ INSERTA TEE, 6"



PROJECT DATE:	DRAWN BY:	NO.	DATE	REVISION	BY:
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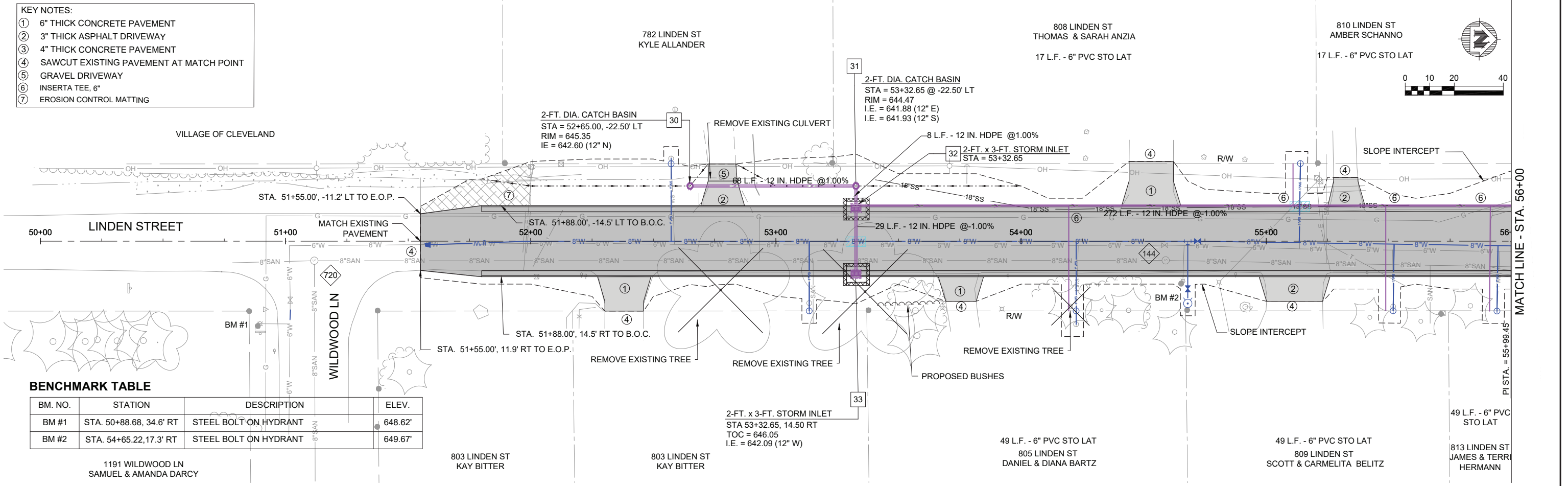
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 VILLAGE OF CLEVELAND
 MANITOWOC COUNTY, WI

MAPLE STREET ROADWAY & STORM PLAN & PROFILE

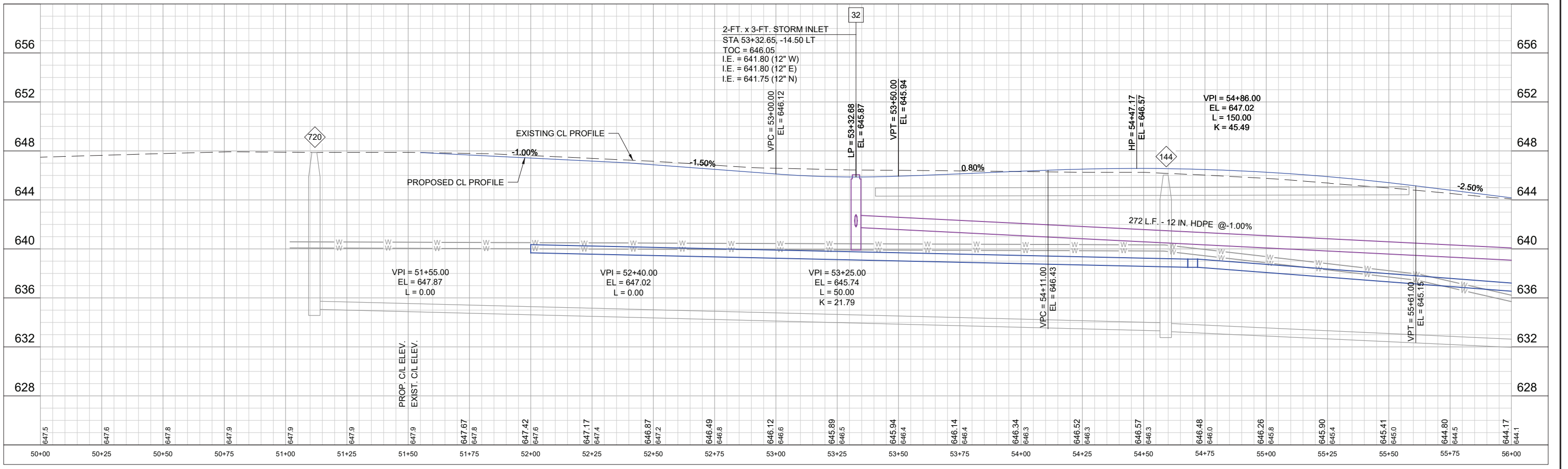
PROJECT NO: 08002035
 SHEET R 5

- KEY NOTES:**
- ① 6" THICK CONCRETE PAVEMENT
 - ② 3" THICK ASPHALT DRIVEWAY
 - ③ 4" THICK CONCRETE PAVEMENT
 - ④ SAWCUT EXISTING PAVEMENT AT MATCH POINT
 - ⑤ GRAVEL DRIVEWAY
 - ⑥ INSERTA TEE, 6"
 - ⑦ EROSION CONTROL MATTING



BENCHMARK TABLE

BM. NO.	STATION	DESCRIPTION	ELEV.
BM #1	STA. 50+88.68, 34.6' RT	STEEL BOLT ON HYDRANT	648.62'
BM #2	STA. 54+65.22, 17.3' RT	STEEL BOLT ON HYDRANT	649.67'

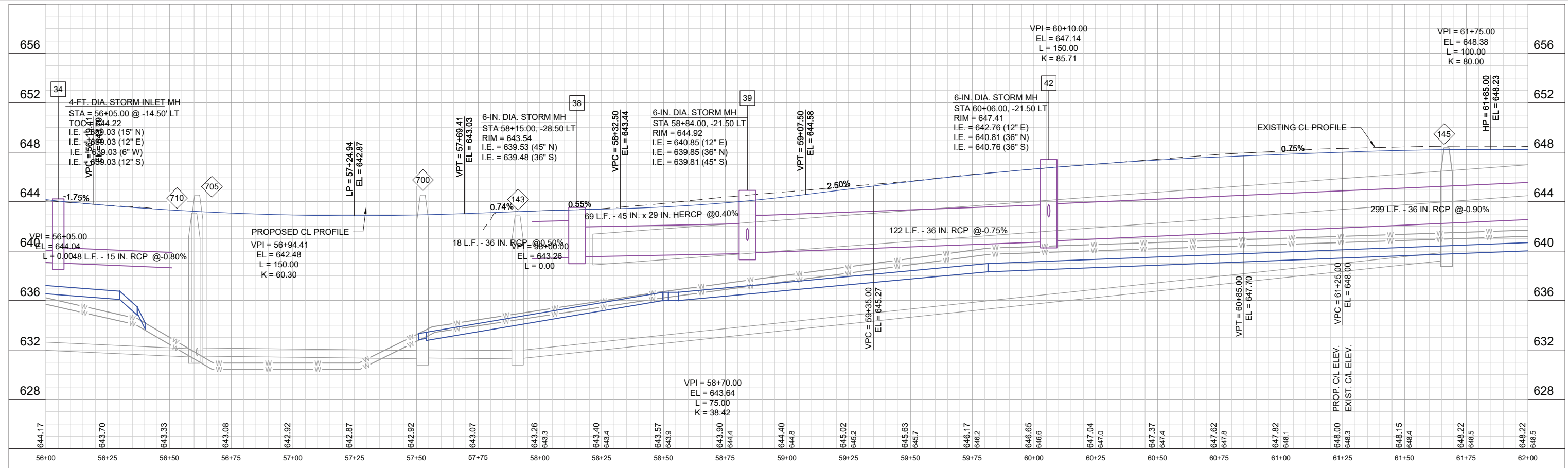
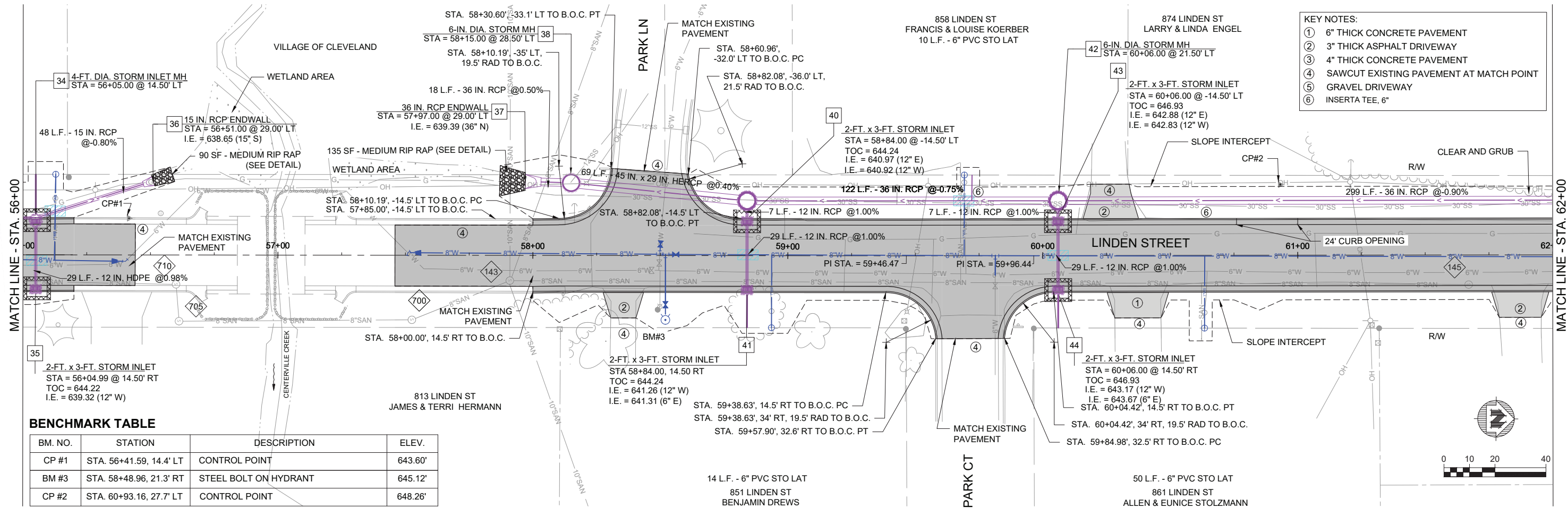


PROJECT DATE:	DRAWN BY:	NO.	DATE	REVISION	BY:
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	DESIGNED BY: DWR	-	-	-	-
	CHECKED BY: DWR	-	-	-	-

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LINDEN STREET ROADWAY AND STORM PLAN & PROFILE

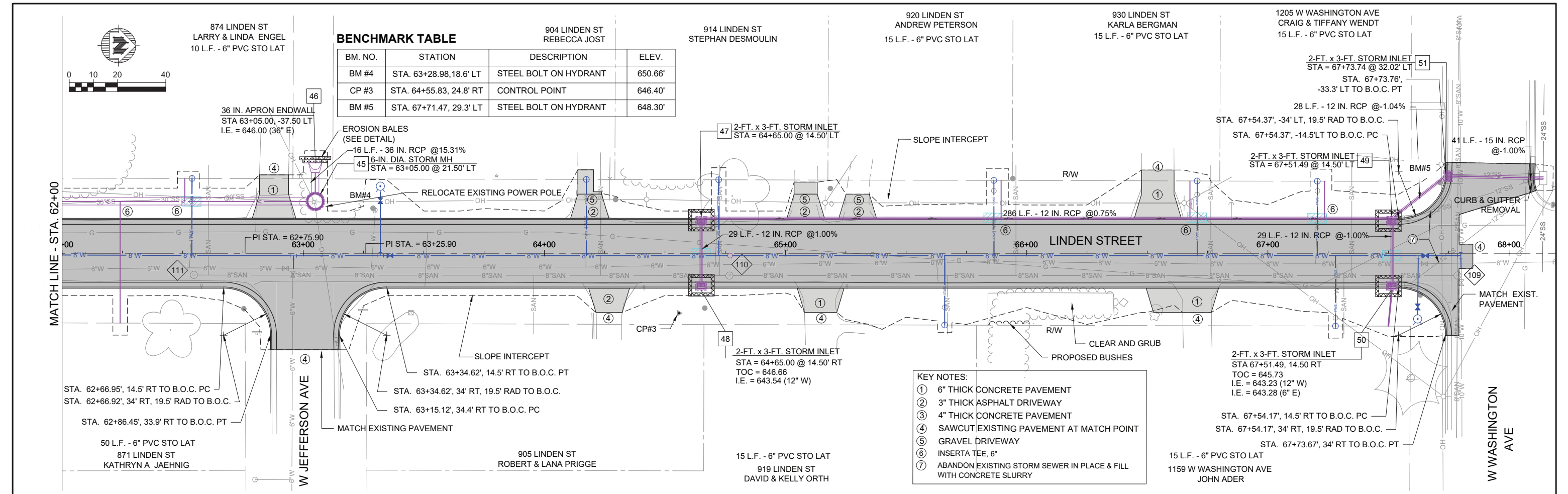


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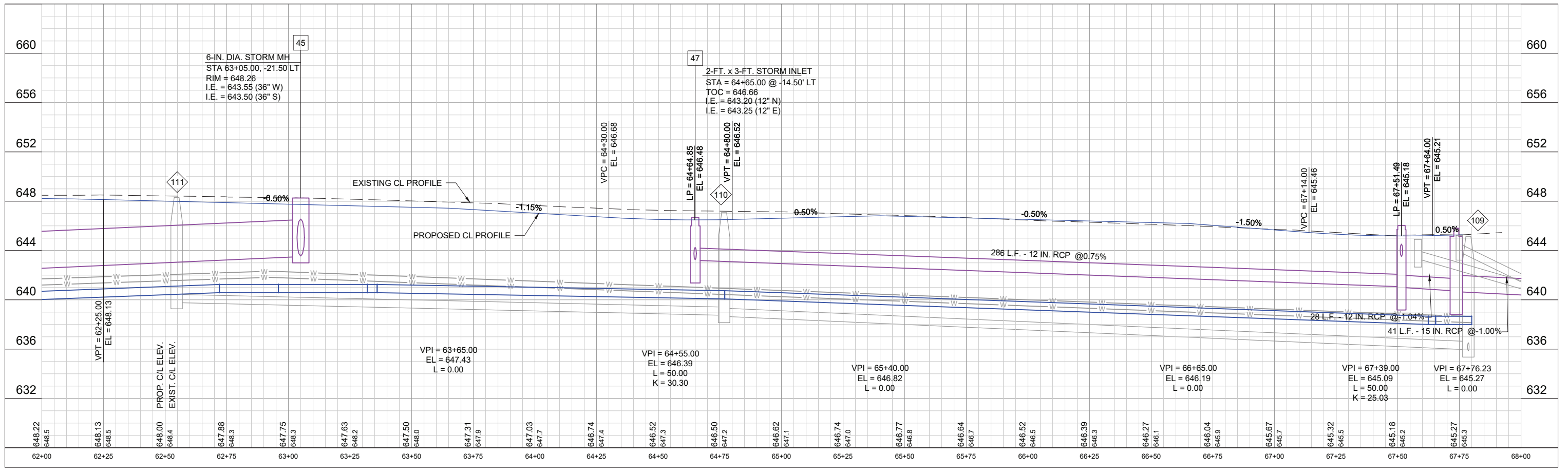
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BENCHMARK TABLE

BM. NO.	STATION	DESCRIPTION	ELEV.
BM #4	STA. 63+28.98, 18.6' LT	STEEL BOLT ON HYDRANT	650.66'
CP #3	STA. 64+55.83, 24.8' RT	CONTROL POINT	646.40'
BM #5	STA. 67+71.47, 29.3' LT	STEEL BOLT ON HYDRANT	648.30'

- KEY NOTES:**
- ① 6" THICK CONCRETE PAVEMENT
 - ② 3" THICK ASPHALT DRIVEWAY
 - ③ 4" THICK CONCRETE PAVEMENT
 - ④ SAWCUT EXISTING PAVEMENT AT MATCH POINT
 - ⑤ GRAVEL DRIVEWAY
 - ⑥ INSERTA TEE, 6"
 - ⑦ ABANDON EXISTING STORM SEWER IN PLACE & FILL WITH CONCRETE SLURRY



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