EXISTING

- RIGHT OF WAY
- PERMANENT EASEMENT
- PROPERTY LINE
- HORIZONTAL CONTROL POINT
- BENCHMARK
- SURVEY MARKER
- SOIL BORING
- SANITARY SEWER AND MANHOLE
- FORCE MAIN AND LIFT STATION
- SANITARY SEWER SERVICE & CLEANOUT
- WATER MAIN, HYDRANT, VALVE AND MANHOLE
- WATER SERVICE AND CURB STOP BOX
- STORM SEWER, MANHOLE AND CATCH BASIN
- CULVERT AND APRON ENDWALL
- GAS MAIN, VALVE, VENT AND METER
- HANDHOLE
- BURIED FIBER OPTIC CABLE AND MANHOLE
- BURIED PHONE CABLE, PEDESTAL AND MANHOLE
- BURIED TV CABLE, PEDESTAL AND MANHOLE
- BURIED ELECTRIC CABLE, PEDESTAL, MANHOLE, TRANSFORMER AND METER
- OVERHEAD WIRE, POLE AND GUY WIRE
- LIGHT POLE
- TRAFFIC SIGNAL
- STREET NAME SIGN
- SIGN (NON STREET NAME)
- RAILROAD TRACKS
- DECIDUOUS AND CONIFEROUS TREE
- BUSH / SHRUB AND STUMP
- EDGE OF WOODED AREA
- WETLAND
- BUILDING
- FENCE (UNIDENTIFIED)
- BARBED WIRE FENCE
- CHAIN LINK FENCE
- ELECTRIC WIRE FENCE
- WOOD FENCE
- WOVEN WIRE FENCE
- PLATE BEAM GUARDRAIL
- CABLE GUARDRAIL
- POST / BOLLARD
- RETAINING WALL

PROPOSED

- STREET CENTERLINE
- RIGHT-OF-WAY
- PERMANENT EASEMENT
- TEMPORARY EASEMENT
- CONSTRUCTION LIMITS
- SANITARY SEWER, BULKHEAD AND MANHOLE
- FORCE MAIN
- SANITARY SERVICE AND CLEANOUT
- WATER MAIN, TEE, HYDRANT, BULKHEAD AND VALVE
- WATER VALVE MANHOLE, REDUCER, BEND AND CROSS
- WATER SERVICE AND CURB STOP BOX
- STORM SEWER, MANHOLE AND CATCH BASIN
- CULVERT AND APRON ENDWALL
- DRAIN TILE
- DITCH / SWALE
- RIPRAP
- STREET NAME SIGN
- SIGN (NON STREET NAME)
- RETAINING WALL

CITY OF WATERTOWN, WISCONSIN

PLANS FOR

EMMET UTILITY EXTENSION

WATRN 186213

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C 4.13	TRAFFIC CONTROL MAP

PROJECT LOCATION

NOTE:
THE SUBSURFACE UTILITY QUALITY INFORMATION IN THIS PLAN IS LEVEL D.
THIS UTILITY QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-22 ENTITLED "STANDARD GUIDELINES FOR INVESTIGATING AND DOCUMENT EXISTING UTILITIES".

THE CONTRACTOR SHALL CALL THE WISCONSIN ONE CALL SYSTEM AT 811 BEFORE COMMENCING EXCAVATION.

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

SEH
PHONE: 262.646.6855
501 MAPLE AVENUE
DELAFIELD, WI 53018
www.sehinc.com

PROJECT NO.
WA186213

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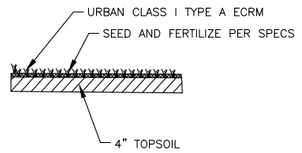
EROSION CONTROL NOTES:

1. KEEP A COPY OF THE CURRENT EROSION CONTROL PLAN ON SITE THROUGHOUT THE DURATION OF THE PROJECT.
2. CONTRACTOR IS RESPONSIBLE FOR ROUTINE SITE INSPECTIONS AT LEAST ONCE EVERY 7 DAYS AND WITHIN 24 HOURS AFTER A RAINFALL EVENT OF 0.5 INCHES OR GREATER. KEEP INSPECTION REPORTS ON-SITE AND MAKE THEM AVAILABLE UPON REQUEST.
3. INSPECT AND MAINTAIN ALL INSTALLED EROSION CONTROL PRACTICES UNTIL THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED.
4. INSTALL PERIMETER EROSION CONTROLS AND ROCK TRACKING PAD CONSTRUCTION ENTRANCE(S) PRIOR TO ANY LAND-DISTURBING ACTIVITIES, INCLUDING CLEARING AND GRUBBING. USE WDNR TECHNICAL STANDARD STONE TRACKING PAD AND TIRE WASHING #1057 FOR ROCK CONSTRUCTION ENTRANCE(S).
5. INSTALL AND MAINTAIN SILT FENCING PER WDNR TECHNICAL STANDARD SILT FENCE #1056. REMOVE SEDIMENT FROM BEHIND SILT FENCES AND SEDIMENT BARRIERS BEFORE SEDIMENT REACHES A DEPTH THAT IS EQUAL TO ONE-HALF OF THE FENCE AND/OR BARRIER HEIGHT.
6. REPAIR BREAKS AND GAPS IN SILT FENCES AND BARRIERS IMMEDIATELY.
7. IMMEDIATELY STABILIZE STOCKPILES AND SURROUND STOCKPILES AS NEEDED WITH SILT FENCE OR OTHER PERIMETER CONTROL IF STOCKPILES WILL REMAIN INACTIVE FOR 7 DAYS OR LONGER.
8. IMMEDIATELY STABILIZE ALL DISTURBED AREAS THAT WILL REMAIN INACTIVE FOR 14 DAYS OR LONGER. BETWEEN SEPTEMBER 15 AND OCTOBER 15: STABILIZE WITH MULCH, TACKIFIER, AND A PERENNIAL SEED MIXED WITH WINTER WHEAT, ANNUAL OATS, OR ANNUAL RYE, AS APPROPRIATE FOR REGION AND SOIL TYPE OCTOBER 15 THROUGH COLD WEATHER: STABILIZE WITH A POLYMER AND DORMANT SEED MIX, AS APPROPRIATE FOR REGION AND SOIL TYPE.
9. STABILIZE AREAS OF FINAL GRADING WITHIN 7 DAYS OF REACHING FINAL GRADE.
10. SWEEP/CLEAN UP ALL SEDIMENT/TRASH THAT MOVES OFF-SITE DUE TO CONSTRUCTION ACTIVITY OR STORM EVENTS BEFORE THE END OF THE SAME WORKDAY OR AS DIRECTED BY THE ENGINEER. SEPARATE SWEPT MATERIALS (SOILS AND TRASH) AND DISPOSE OF APPROPRIATELY.
11. THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING DUST PER WDNR TECHNICAL STANDARD DUST CONTROL ON CONSTRUCTION SITES # 1068.
12. PROPERLY DISPOSE OF ALL WASTE AND UNUSED BUILDING MATERIALS (INCLUDING GARBAGE, DEBRIS, CLEANING WASTES, OR OTHER CONSTRUCTION MATERIALS) AND DO NOT ALLOW THESE MATERIALS TO BE CARRIED BY RUNOFF INTO THE RECEIVING CHANNEL.
13. INSTALL AND MAINTAIN A CONCRETE WASHOUT BASIN PER EPA 833-F-11-006; HTTPS://WWW3.EPA.GOV/NPDES/PUBS/CONCRETEWASHOUT.PDF. REQUIRE USE BY ALL CONCRETE CONTRACTORS. LIQUID MAY BE REUSED IN CONCRETE MIXING, EVAPORATED, OR DISPOSED OF AS WASTEWATER. LOCATION AND TYPE OF CONCRETE WASHOUT TO BE COORDINATED WITH THE ENGINEER.

NOTE: DETAIL APPLIES TO ANY GRASS AREA THAT IS DISTURBED DURING CONSTRUCTION

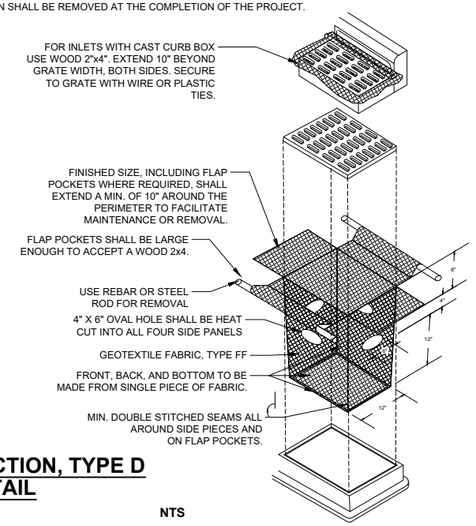


RESTORATION DETAIL

NTS

GENERAL NOTES:

A. FABRIC SHALL BE REPLACED AT THE ENGINEER'S DISCRETION.
B. MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON WISDOT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST (PAL) MAY BE SUBSTITUTED.
C. 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.
D. DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.
E. TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.
F. THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.
G. INLET PROTECTION SHALL BE REMOVED AT THE COMPLETION OF THE PROJECT.



INLET PROTECTION, TYPE D DETAIL

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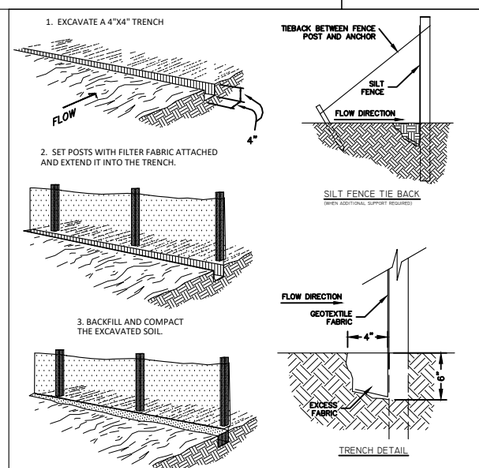
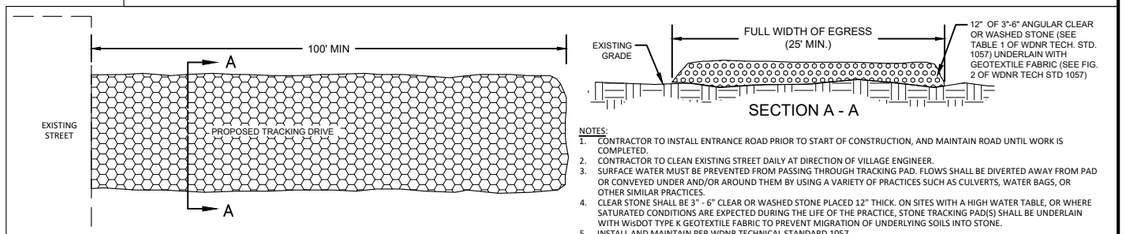


GENERAL NOTES

1. INSTALL AND MAINTAIN PER DNR TECHNICAL STANDARD 1056
2. 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.
3. WOOD POST SHALL BE A MINIMUM SIZE OF 1 1/8" X 1 1/8" OF OAK OR HICKORY.
4. CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY, USE ONE OF THE THE FOLLOWING TWO METHODS:
   A) TWIST METHOD - - OVERLAP THE END POST AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, OR
   B) HOOK METHOD - - HOOK THE END OF EACH SILT FENCE LENGTH.
5. HORIZONTAL BRACE REQUIRED WITH A 2"X4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
6. SILT FENCE TO EXTEND ACROSS THE TOP OF PIPE.

SILT FENCE DETAIL

NTS



NOTES:

1. CONTRACTOR TO INSTALL ENTRANCE ROAD PRIOR TO START OF CONSTRUCTION, AND MAINTAIN ROAD UNTIL WORK IS COMPLETED.
2. CONTRACTOR TO CLEAN EXISTING STREET DAILY AT DIRECTION OF VILLAGE ENGINEER.
3. SURFACE WATER MUST BE PREVENTED FROM PASSING THROUGH TRACKING PAD. FLOWS SHALL BE DIVERTED AWAY FROM PAD OR CONVEYED UNDER AND/OR AROUND THEM BY USING A VARIETY OF PRACTICES SUCH AS CULVERTS, WATER BAGS, OR OTHER SIMILAR PRACTICES.
4. CLEAR STONE SHALL BE 3" - 6" CLEAR OR WASHED STONE PLACED 12" THICK. ON SITES WITH A HIGH WATER TABLE, OR WHERE SATURATED CONDITIONS ARE EXPECTED DURING THE LIFE OF THE PRACTICE, STONE TRACKING PAD(S) SHALL BE UNDERLAIN WITH WisDOT TYPE K GEOTEXTILE FABRIC TO PREVENT MIGRATION OF UNDERLYING SOILS INTO STONE.
5. INSTALL AND MAINTAIN PER WDNR TECHNICAL STANDARD 1057.

GRAVEL TRACKING DRIVE DETAIL

NTS

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Drawn By	LJK						
Designed By	LJK						
Checked By	BP						

EMMET UTILITY EXTENSION
CITY OF WATERTOWN

CONSTRUCTION DETAILS

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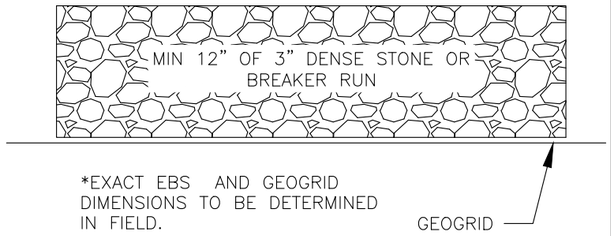

EXCAVATION BELOW SUBGRADE DETAIL
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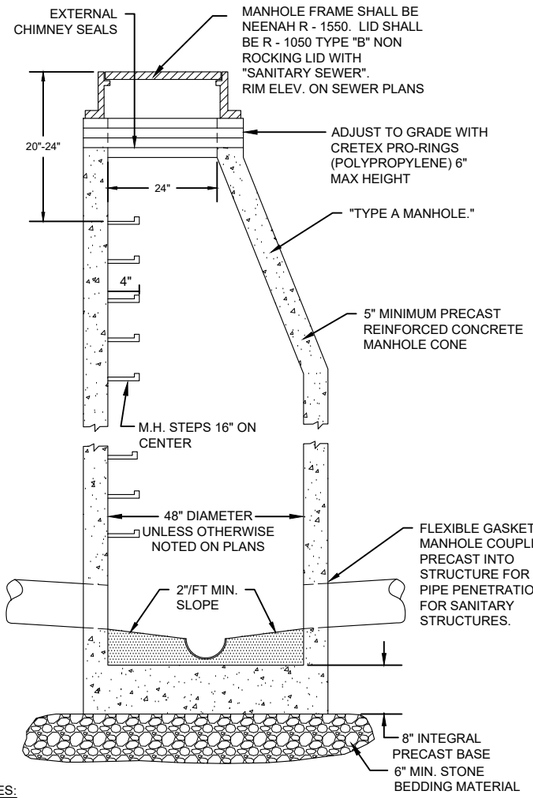
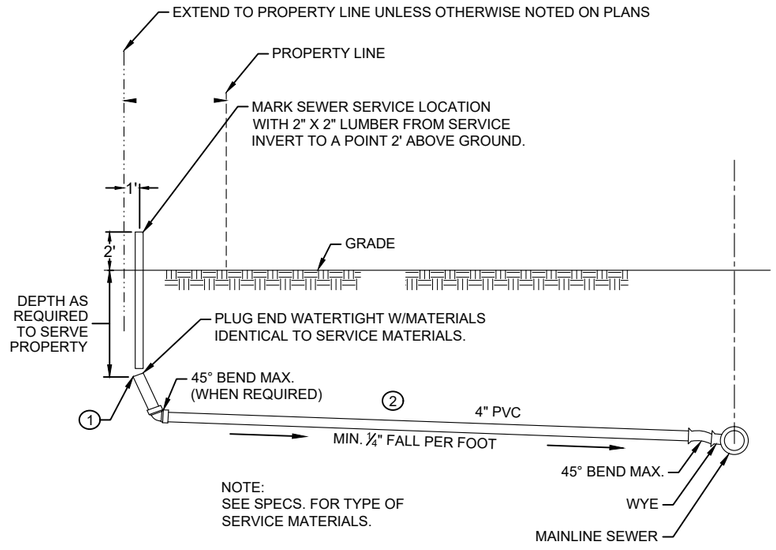


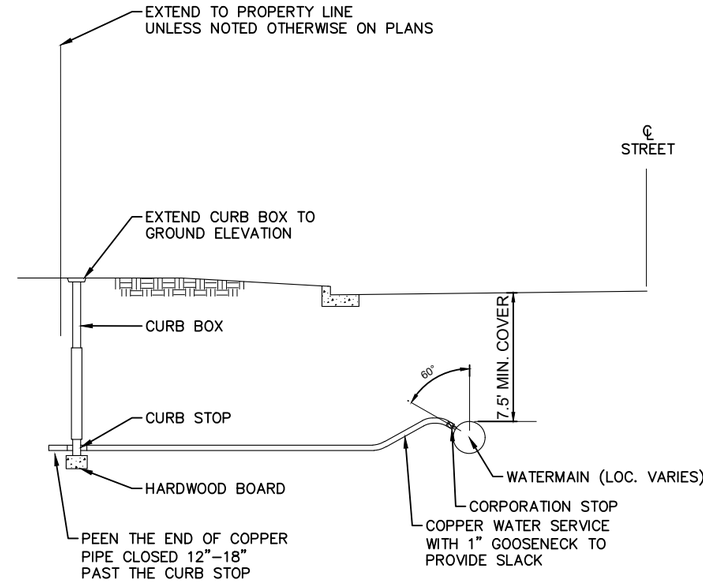
NOTES:
1. FLEXIBLE WATERTIGHT PIPE TO MANHOLE SEAL IS REQUIRED FOR ALL FLEXIBLE SANITARY SEWER CONNECTIONS. ALL ANNULAR SPACE BETWEEN THE PIPE AND MANHOLE SHALL BE FILLED WITH MORTAR OR CONCRETE MATERIAL BELOW SURFACE OF BENCH OR SPRINGLINE.
2. 1" EZ-STIK BETWEEN ALL ADJUSTMENT RINGS, BETWEEN TOP ADJUSTMENT RING AND FRAME. USE EXTERNAL CHIMNEY SEALS. 9" WIDE BARREL WRAP REQ'D AT ALL JOINTS. BARREL WRAP AND ALL JOINTS MUST BE BACKPLASTERED INSIDE AND OUT.
3. THE EZ-STIK JOINT SHALL BE MANUALLY COMPRESSED PRIOR TO SETTING THE NEXT CASTING, ADJUSTING RING, OR MANHOLE SECTION. 2 STRIPS OF 1" EZ-STIK BETWEEN ALL MANHOLE SECTIONS IS REQUIRED.

TYPICAL SANITARY MANHOLE DETAIL
NTS



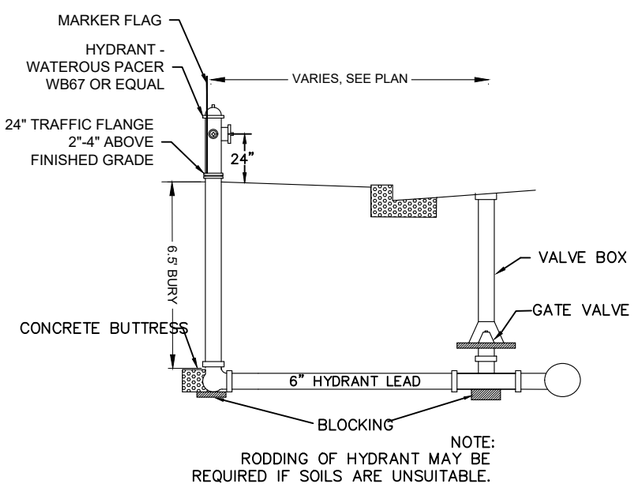
1. IF GROUND WATER IS PRESENT, CONTINUE PIPE UNTIL ABOVE WATER TABLE.
2. ALL SERVICE PIPE, BENDS, AND WYES SHALL BE SDR 35 PVC UNLESS OTHERWISE SPECIFIED.

SEWER LATERAL DETAIL
NTS



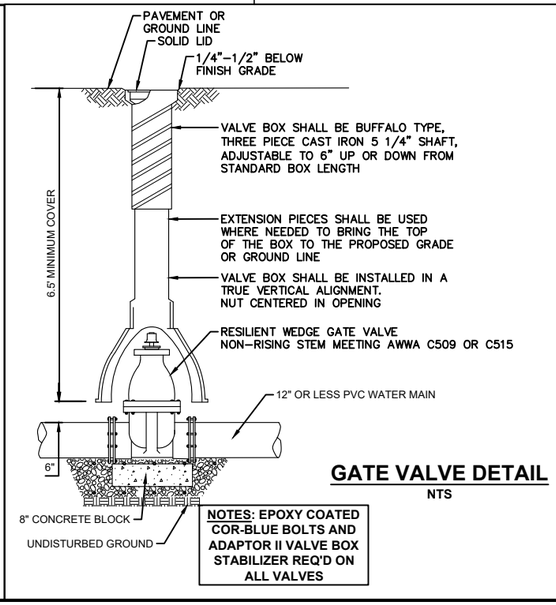
NOTES:
1. SEE SPECS FOR SIZE & TYPE OF MATERIALS
2. MAINTAIN 18" VERTICAL & 24" HORIZONTAL SEPARATION BETWEEN SEWER & WATER SERVICE LINES.
3. PROVIDE CURB BOXES THAT ARE IN CONCRETE OR BITUMINOUS DRIVEWAYS WITH A SHORT TOP SECTION OF A STANDARD GATE VALVE BOX WITH A LID MARKED "WATER".
4. WHERE WATER MAIN IS HDPE: USE ELECTROFUSION CORPORATIONS SADDLES TO CONNECT TO WATER MAIN.

WATER SERVICE DETAIL
NTS



NOTE:
RODDING OF HYDRANT MAY BE REQUIRED IF SOILS ARE UNSUITABLE.

HYDRANT ASSEMBLY DETAIL
NTS



GATE VALVE DETAIL
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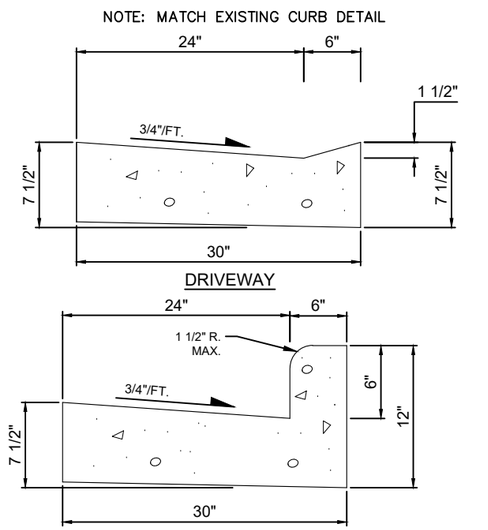
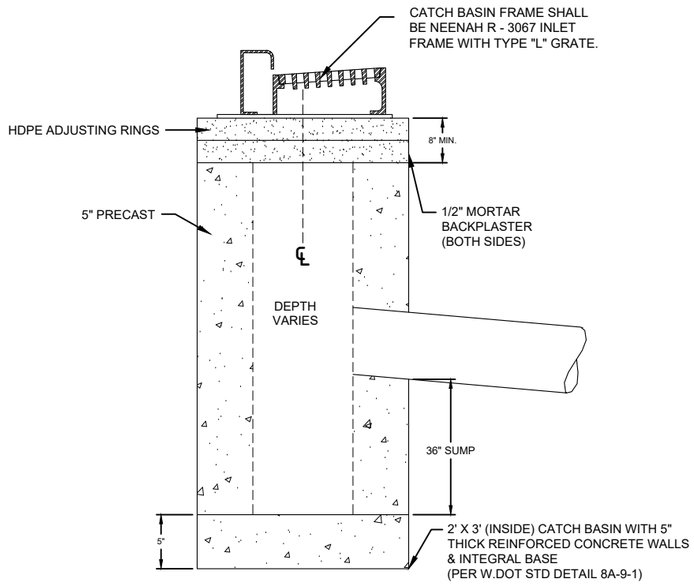


CONCRETE CURB & GUTTER DETAIL
NTS

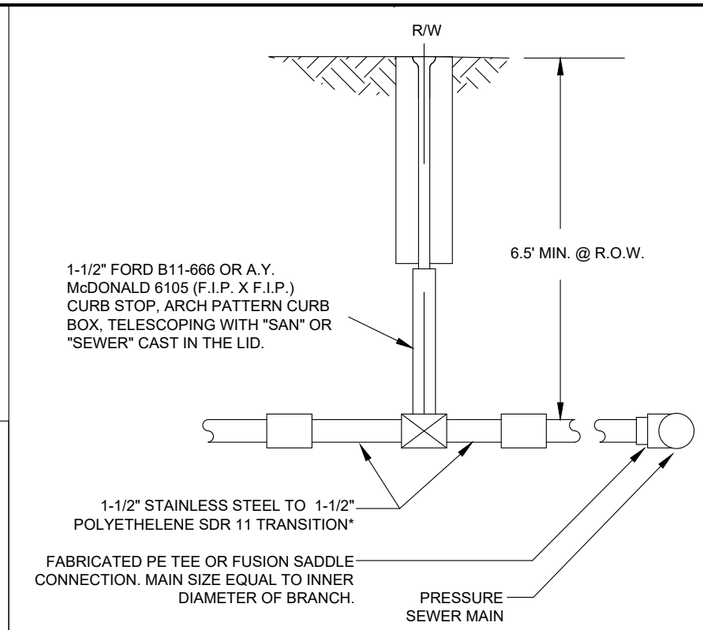


2'X3' CATCH BASIN DETAIL

NTS

LOW PRESSURE SANITARY SEWER SYSTEM (LPS):
THIS WILL BE A PRIVATE SYSTEM, MAINTAINED BY OTHERS

1. PIPE: EXTRA HIGH MOLECULAR WEIGHT HIGH DENSITY POLYETHYLENE PIPE MEETING THE REQUIREMENTS OF ASTM D1248 AND SWS.
   1-1/2" AND 2": SDR 11
   MATERIAL DESIGNATION: PP1 PE3408
   MATERIAL CLASSIFICATION: TYPE III, CLASS C, CATEGORY 5, GRADE P34
2. FITTINGS: PER ASTM D3261, PRESSURE CLASS SAME AS PIPE
3. JOINTS; BUTT FUSED PER ASTM D2657 OR MANUFACTURER'S RECOMMENDATIONS.
4. AIR RELEASE VALVE: ARI MODEL D-025 WITH 2" ORIFICE AND REINFORCED NYLON BODY (OR EQUAL).
5. TRACER WIRE REQUIRED ON ALL LPS WITH LOCATOR BOXES AS SPECIFIED IN THE DETAIL.
6. WARNING TAPE: SHALL BE NULCA AND AWWA GREEN AND SHALL READ "CAUTION - BURIED PRESSURE SEWAGE FORCE MAIN".
7. LATERALS, VALVES AND FITTINGS:
   A. 1-1/2", IPS, SDR 11 (160 PSI)
   B. CURB STOPS AND INLINE VALVES: FORD B11-666, FEMALE IPS BOTH ENDS
   C. CURB BOXES: FORD ARCH PATTERN WITH STATIONARY ROD, TYPE PS LID AND ENLARGED CURB BOX BASE.
   D. TRANSITIONS: PE TO BRASS, POLY-CAM OR EQUAL



*NOTE: THIS EXCLUDES GALVANIZED STEEL, BLACK STEEL AND PVC FITTINGS

LOW PRESSURE SEWER LATERAL DETAIL

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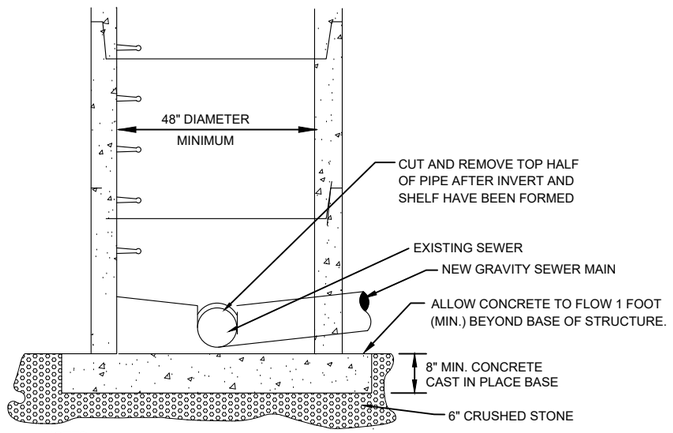
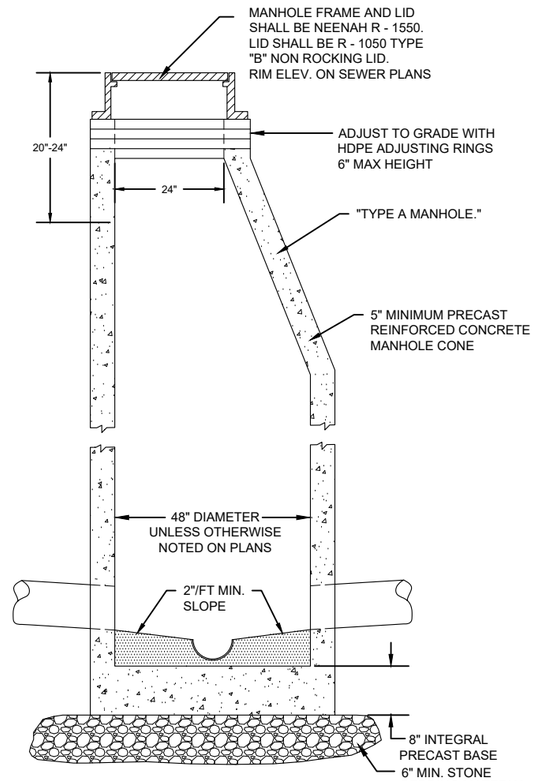


NOTES:
1. ALL BURIED JOINTS TO HAVE EXTERNAL SEALING JOINTS.
2. ANNULUS BETWEEN EXISTING SEWER LINE AND DOGHOUSE CUTOUT SHALL BE GROUTED WITH BITUMASTIC SEALER.
3. MAXIMUM DEPTH 4' DIA. MANHOLE = 10'. USE 5' DIA. MANHOLE FOR DEPTHS GREATER THAN 10'.
4. CONSTRUCT BENCH AND INVERT TO ALLOW SMOOTH TRANSITION OF FLOW FROM NEW SEWER TO EXISTING SEWER.

DOGHOUSE MANHOLE BASE DETAIL

NTS

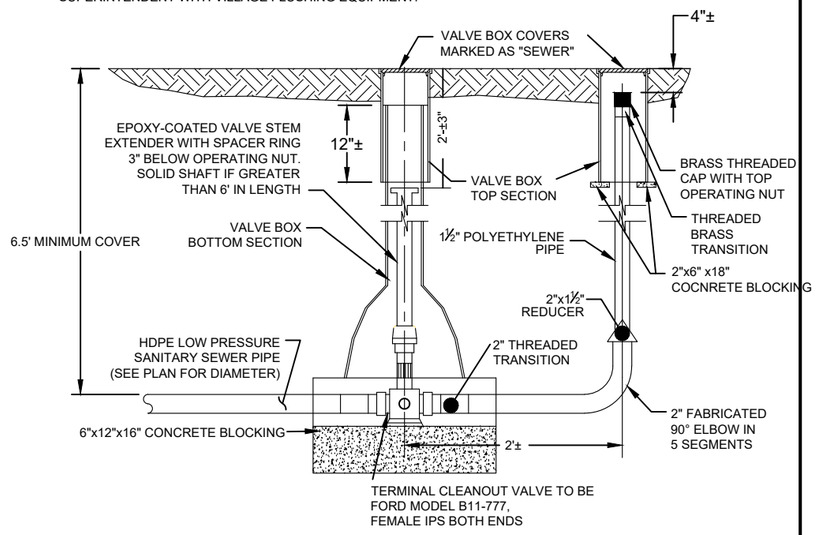


NOTES:
1. FLEXIBLE WATERTIGHT PIPE TO MANHOLE SEAL IS REQUIRED FOR ALL FLEXIBLE SANITARY SEWER CONNECTIONS. ALL ANNULAR SPACE BETWEEN THE PIPE AND MANHOLE SHALL BE FILLED WITH MORTAR OR CONCRETE MATERIAL BELOW SURFACE OF BENCH OR SPRINGLINE.
2. 1" EZ-STIK BETWEEN ALL ADJUSTMENT RINGS, BETWEEN TOP ADJUSTMENT RING AND FRAME. USE EXTERNAL CHIMNEY SEALS. 9" WIDE BARREL WRAP REQ'D AT ALL JOINTS. BARREL WRAP AND ALL JOINTS MUST BE BACKPLASTERED INSIDE AND OUT.
3. THE EZ-STIK JOINT SHALL BE MANUALLY COMPRESSED PRIOR TO SETTING THE NEXT CASTING, ADJUSTING RING, OR MANHOLE SECTION. 2 STRIPS OF 1" EZ-STIK BETWEEN ALL MANHOLE SECTIONS IS REQUIRED.

STORM SEWER MANHOLE DETAIL

NTS

NOTE: FLUSHING TERMINAL CONNECTION TO MATCH SPECIFIC CONNECTION DEVICE WITHIN THE ORIGINAL PHASE OF THE SUBDIVISION. UPON PROJECT COMPLETION, VERIFY FLUSHING SYSTEM WITH VILLAGE UTILITY SUPERINTENDENT WITH VILLAGE FLUSHING EQUIPMENT.



LOW PRESSURE SEWER TERMINAL CLEANOUT DETAIL

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Designed By	LJK						
Checked By	BP						

EMMET UTILITY EXTENSION
CITY OF WATERTOWN

CONSTRUCTION DETAILS

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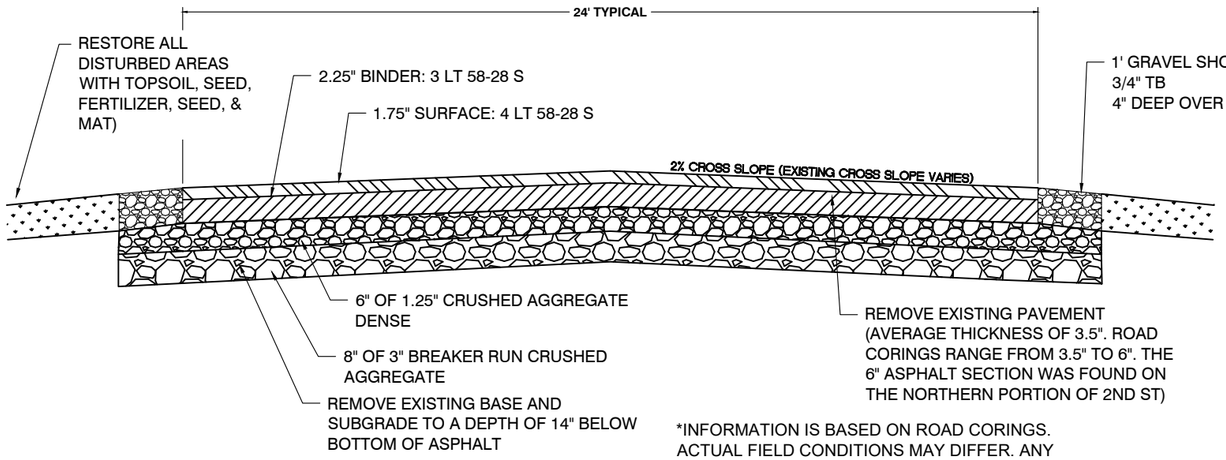
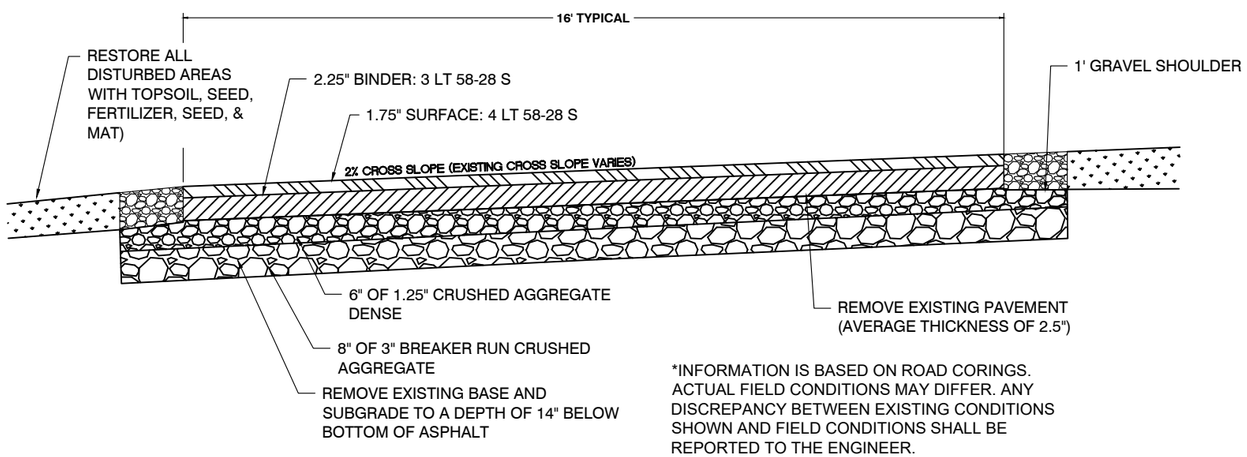


*INFORMATION IS BASED ON ROAD CORINGS. ACTUAL FIELD CONDITIONS MAY DIFFER. ANY DISCREPANCY BETWEEN EXISTING CONDITIONS SHOWN AND FIELD CONDITIONS SHALL BE REPORTED TO THE ENGINEER.

NORTH 2ND ST TYPICAL SECTION

NTS



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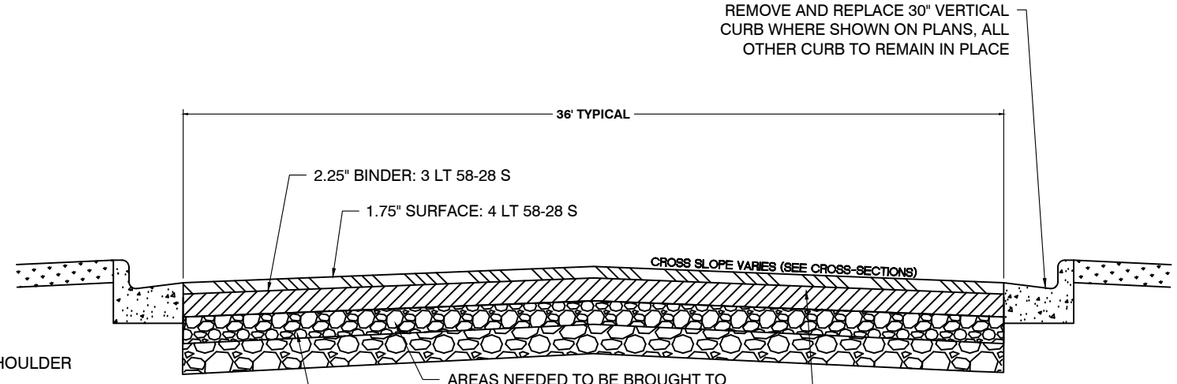
PROSPECT ST TYPICAL SECTION

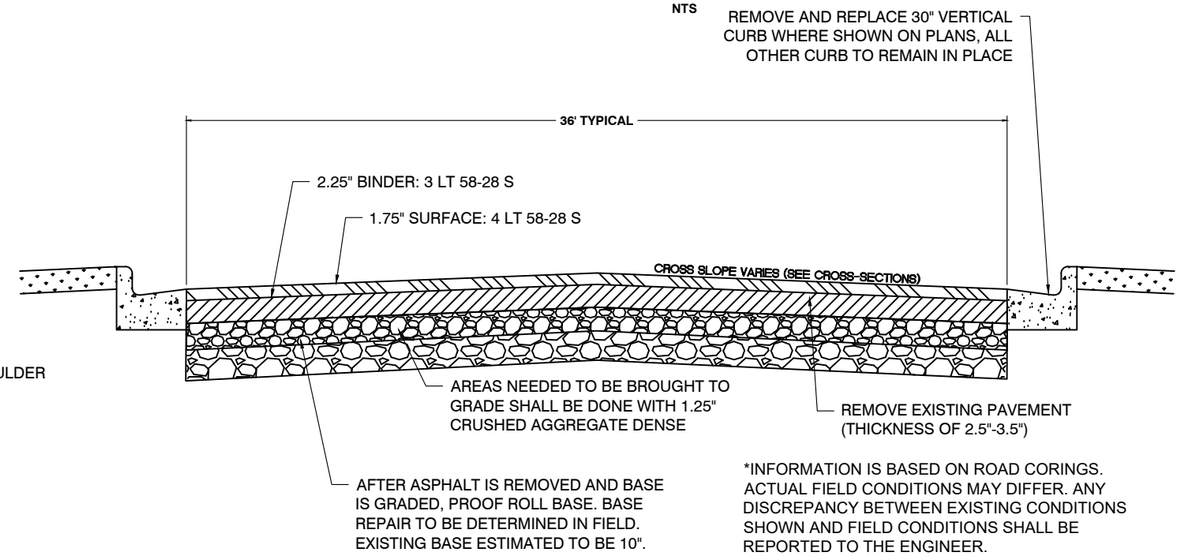
NTS



*INFORMATION IS BASED ON ROAD CORINGS. ACTUAL FIELD CONDITIONS MAY DIFFER. ANY DISCREPANCY BETWEEN EXISTING CONDITIONS SHOWN AND FIELD CONDITIONS SHALL BE REPORTED TO THE ENGINEER.

CENTER ST TYPICAL SECTION

NTS



*INFORMATION IS BASED ON ROAD CORINGS. ACTUAL FIELD CONDITIONS MAY DIFFER. ANY DISCREPANCY BETWEEN EXISTING CONDITIONS SHOWN AND FIELD CONDITIONS SHALL BE REPORTED TO THE ENGINEER.

BOULDER RD TYPICAL SECTION

NTS

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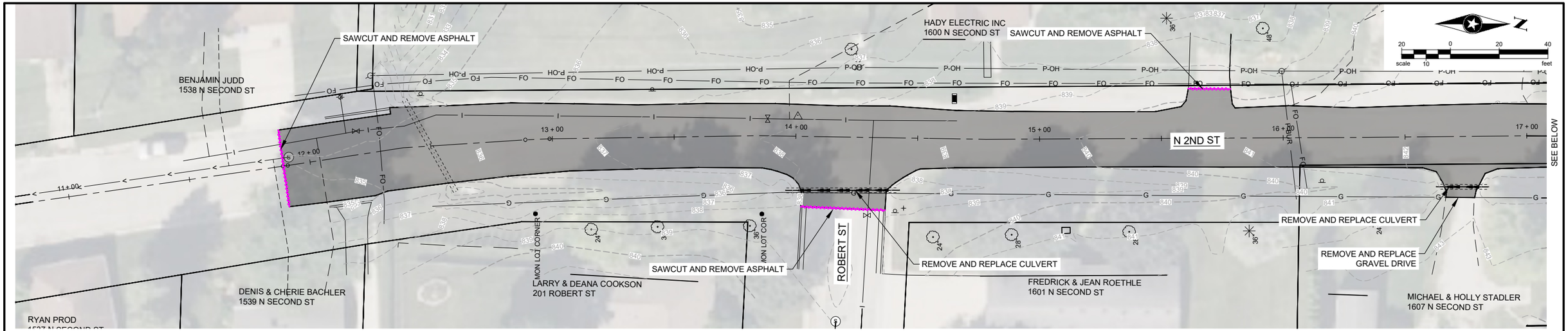
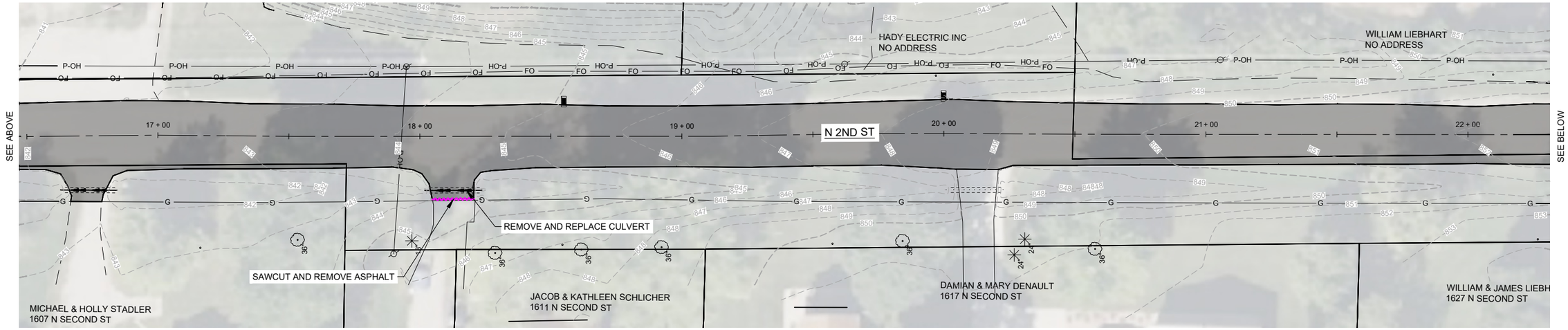
SEH Project	WATRN 186213	Rev.#	Plan Revision Issue Description	Date	Rev.#	Sheet Revision Issue Description	Date	SEH
Drawn By	LJK							
Designed By	LJK							
Checked By	BP							

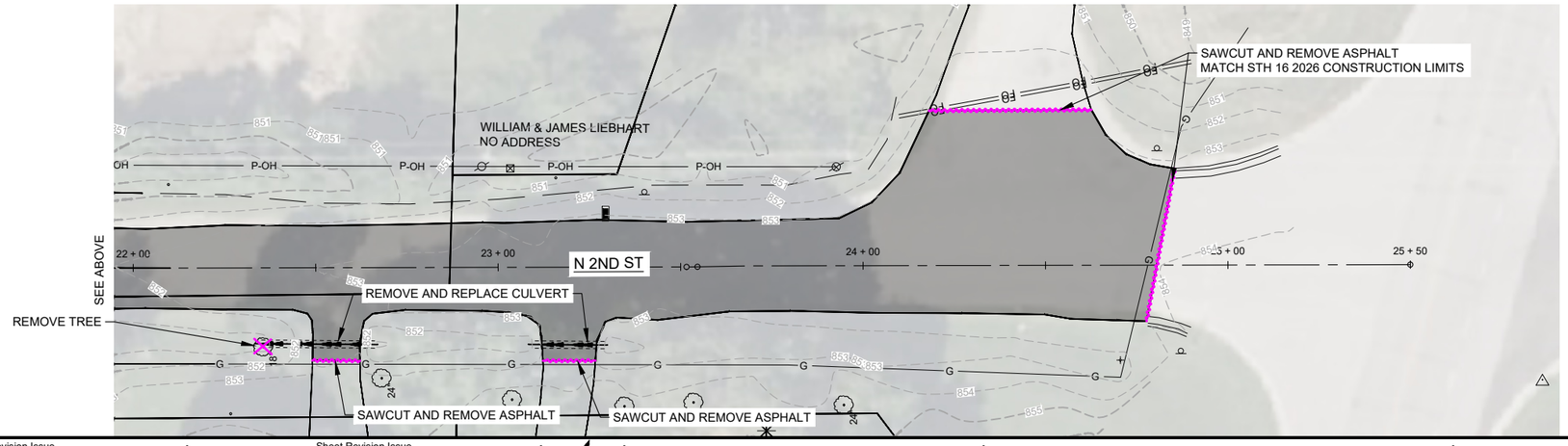
EMMET UTILITY EXTENSION
CITY OF WATERTOWN

TYPICAL SECTIONS

C 1.10
of 27







SEH Project	WATRN 186213	Rev.#	Plan Revision Issue Description	Date	Rev.#	Sheet Revision Issue Description	Date	EMMET UTILITY EXTENSION CITY OF WATERTOWN	**EXISTING CONDITIONS & REMOVALS** **NORTH 2ND STREET**	C 2.00
Drawn By	LJK									of 27
Designed By	LJK									
Checked By	BP									

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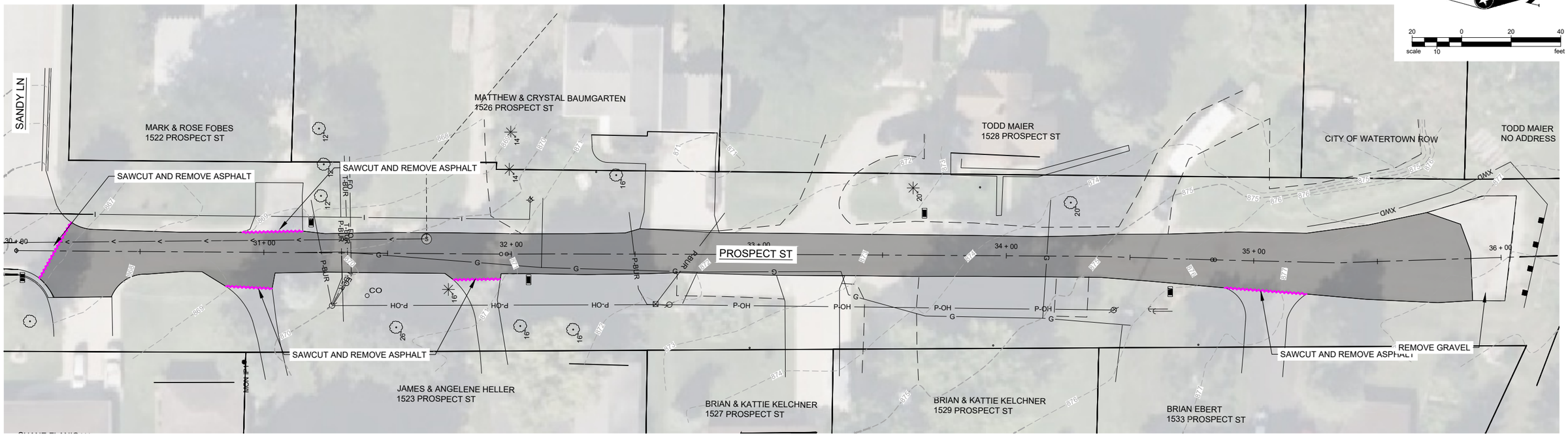

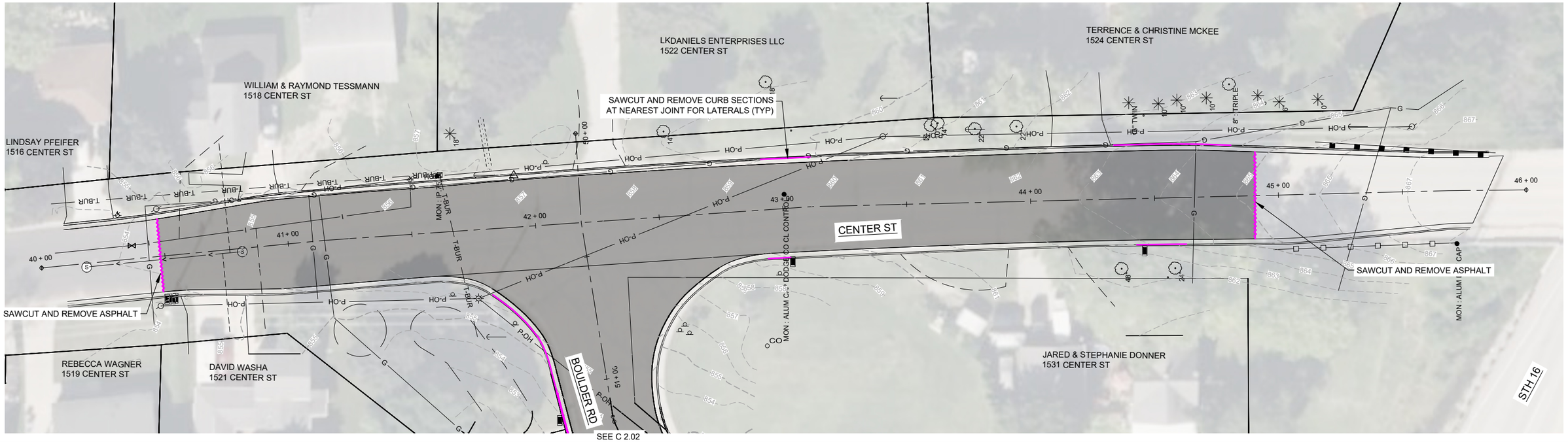

SEH Project	WATRN 186213	Rev.#	Plan Revision Issue Description	Date	Rev.#	Sheet Revision Issue Description	Date
Drawn By	LJK						
Designed By	LJK						
Checked By	BP						

SEH

EMMET UTILITY EXTENSION
CITY OF WATERTOWN

EXISTING CONDITIONS & REMOVALS
PROSPECT & CENTER STREET

C 2.01
of 27

SAWCUT AND REMOVE ASPHALT

SAWCUT AND REMOVE CURB AT NEAREST JOINT

SAWCUT AND REMOVE CURB AT NEAREST JOINT

SAWCUT AND REMOVE ASPHALT

SAWCUT AND REMOVE CURB AT NEAREST JOINT

SAWCUT AND REMOVE CURB SECTIONS AT NEAREST JOINT FOR LATERALS (TYP)

REMOVE AND REPLACE ASPHALT APRON

INSTALL SEDIMENT LOGS ALONG ENTIRE LENGTH OF REMOVED CURB

TERRENCE & CHRISTI
1524 CENTER ST

LKDANIELS ENTERPRISES LLC
1522 CENTER ST

JARED & STEPHANIE DONNER
1531 CENTER ST

WILLIAM & RAYMOND TESSMANN
1518 CENTER ST

WARREN & SHEILA HALBRADER
1537 BOULDER RD

DEBRA EBERT
1527 BOULDER RD

DARCIE SCHAFER
1545 BOULDER RD

DAVID WASHA
1521 CENTER ST

CENTER ST

BOULDER RD

STH 16

MON : IP1

MON : IP 75°

MON : ALUM CAP

CO

20 0 20 40
scale 10 feet

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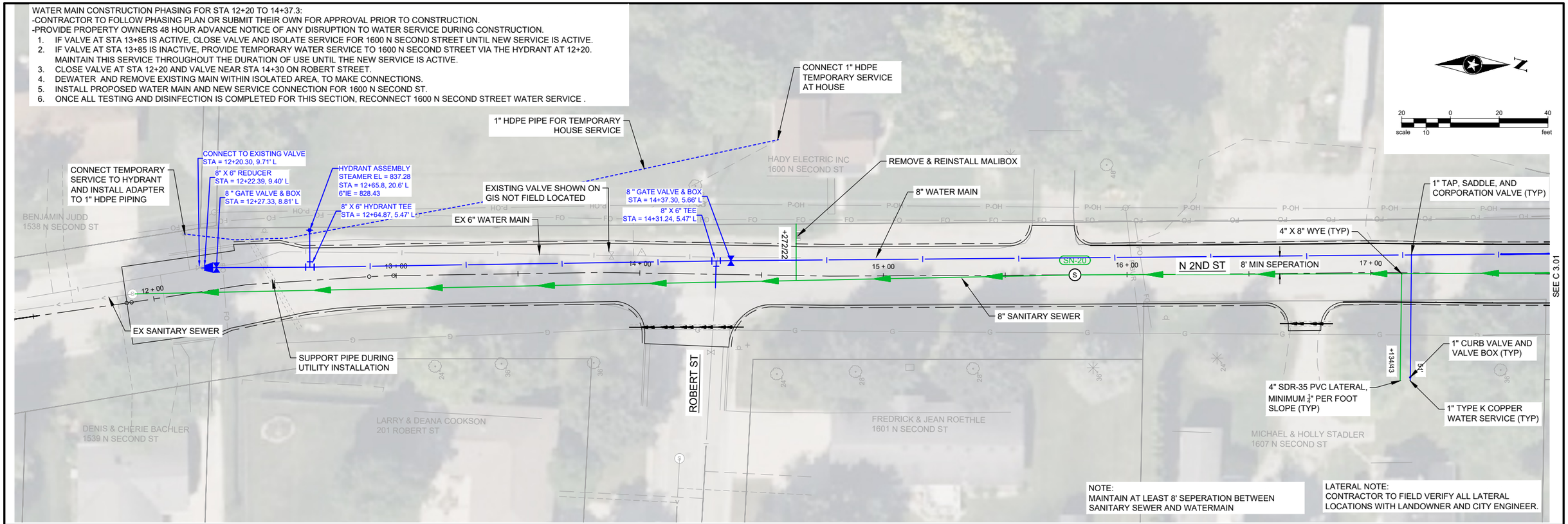
SEH Project	WATRN 186213	Rev.#	Plan Revision Issue Description	Date	Rev.#	Sheet Revision Issue Description	Date	EMMET UTILITY EXTENSION CITY OF WATERTOWN	**EXISTING CONDITIONS & REMOVALS** **BOULDER ROAD**	C 2.02 of 27
Drawn By	LJK									
Designed By	LJK									
Checked By	BP									

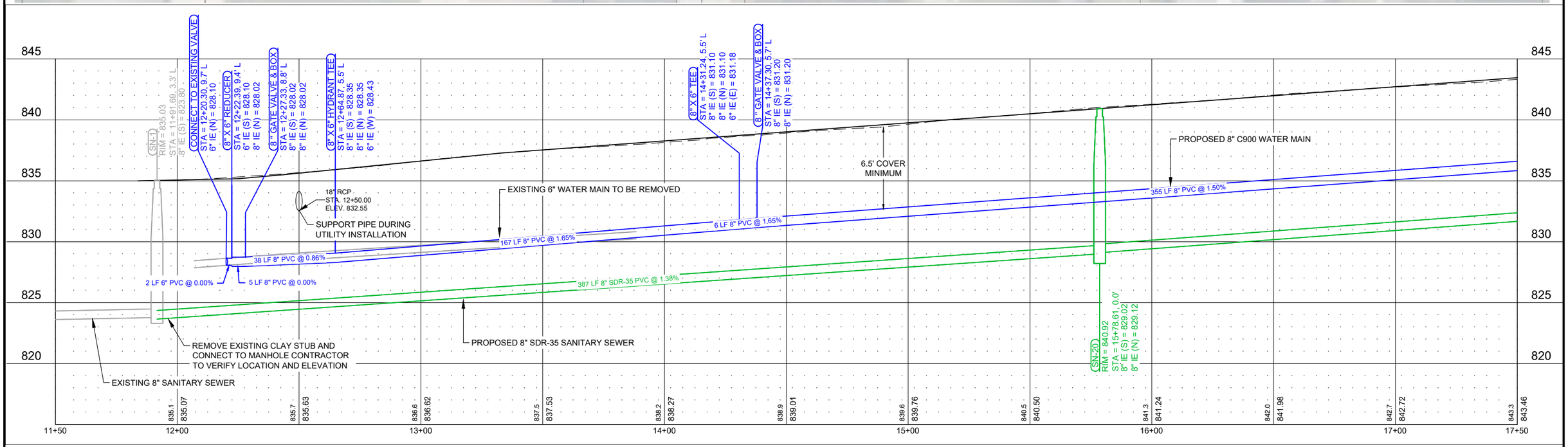
WATER MAIN CONSTRUCTION PHASING FOR STA 12+20 TO 14+37.3:
-CONTRACTOR TO FOLLOW PHASING PLAN OR SUBMIT THEIR OWN FOR APPROVAL PRIOR TO CONSTRUCTION.
-PROVIDE PROPERTY OWNERS 48 HOUR ADVANCE NOTICE OF ANY DISRUPTION TO WATER SERVICE DURING CONSTRUCTION.

1. IF VALVE AT STA 13+85 IS ACTIVE, CLOSE VALVE AND ISOLATE SERVICE FOR 1600 N SECOND STREET UNTIL NEW SERVICE IS ACTIVE.
2. IF VALVE AT STA 13+85 IS INACTIVE, PROVIDE TEMPORARY WATER SERVICE TO 1600 N SECOND STREET VIA THE HYDRANT AT 12+20. MAINTAIN THIS SERVICE THROUGHOUT THE DURATION OF USE UNTIL THE NEW SERVICE IS ACTIVE.
3. CLOSE VALVE AT STA 12+20 AND VALVE NEAR STA 14+30 ON ROBERT STREET.
4. DEWATER AND REMOVE EXISTING MAIN WITHIN ISOLATED AREA, TO MAKE CONNECTIONS.
5. INSTALL PROPOSED WATER MAIN AND NEW SERVICE CONNECTION FOR 1600 N SECOND ST.
6. ONCE ALL TESTING AND DISINFECTION IS COMPLETED FOR THIS SECTION, RECONNECT 1600 N SECOND STREET WATER SERVICE .



NOTE:
MAINTAIN AT LEAST 8' SEPERATION BETWEEN SANITARY SEWER AND WATERMAIN

LATERAL NOTE:
CONTRACTOR TO FIELD VERIFY ALL LATERAL LOCATIONS WITH LANDOWNER AND CITY ENGINEER.



SEH Project	WATRN 186213	Rev.#	Plan Revision Issue Description	Date	Rev.#	Sheet Revision Issue Description	Date	EMMET UTILITY EXTENSION CITY OF WATERTOWN	WATER & SEW PLANS NORTH 2ND STREET	C 3.00
Drawn By	LJK									
Designed By	LJK									of 27
Checked By	BP									

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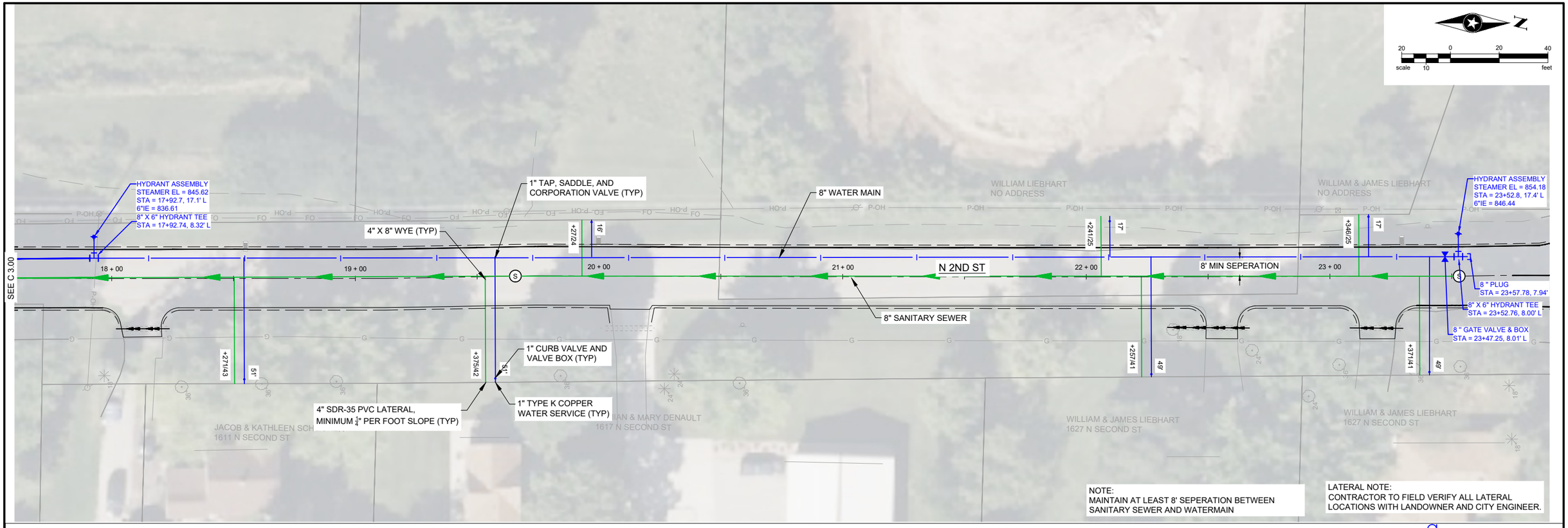

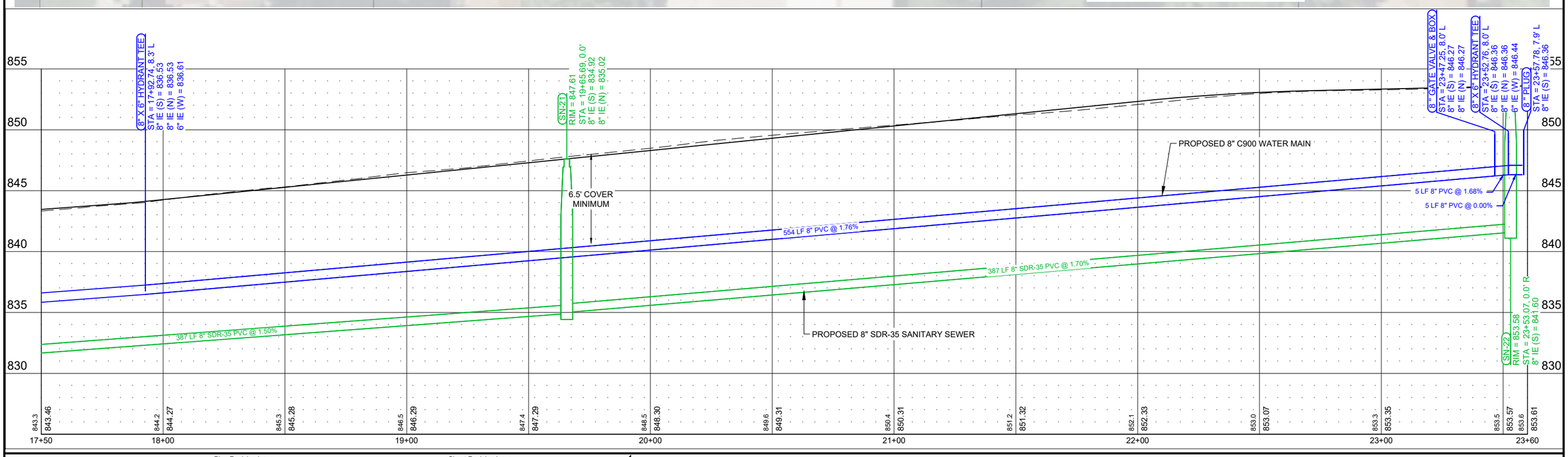

SEH Project	WATRN 186213	Rev.#	Plan Revision Issue Description	Date	Rev.#	Sheet Revision Issue Description	Date
Drawn By	LJK						
Designed By	LJK						
Checked By	BP						

SEH

EMMET UTILITY EXTENSION
CITY OF WATERTOWN

WATER & SEWER PLANS
NORTH 2ND STREET

C 3.01
of 27

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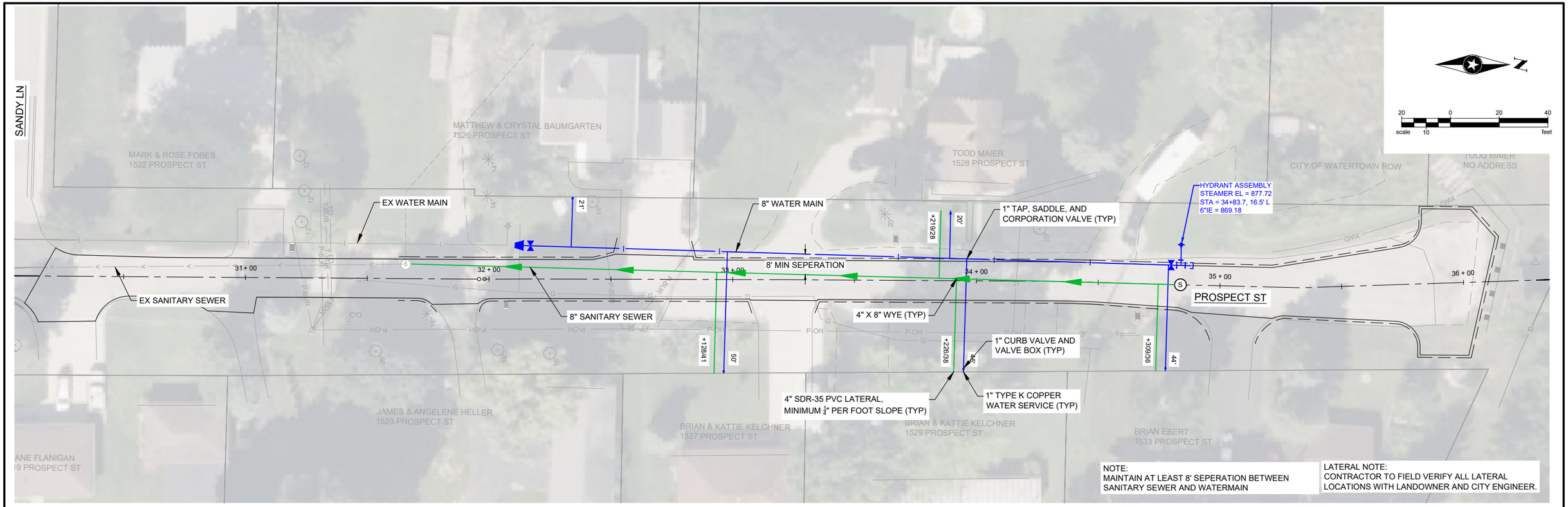

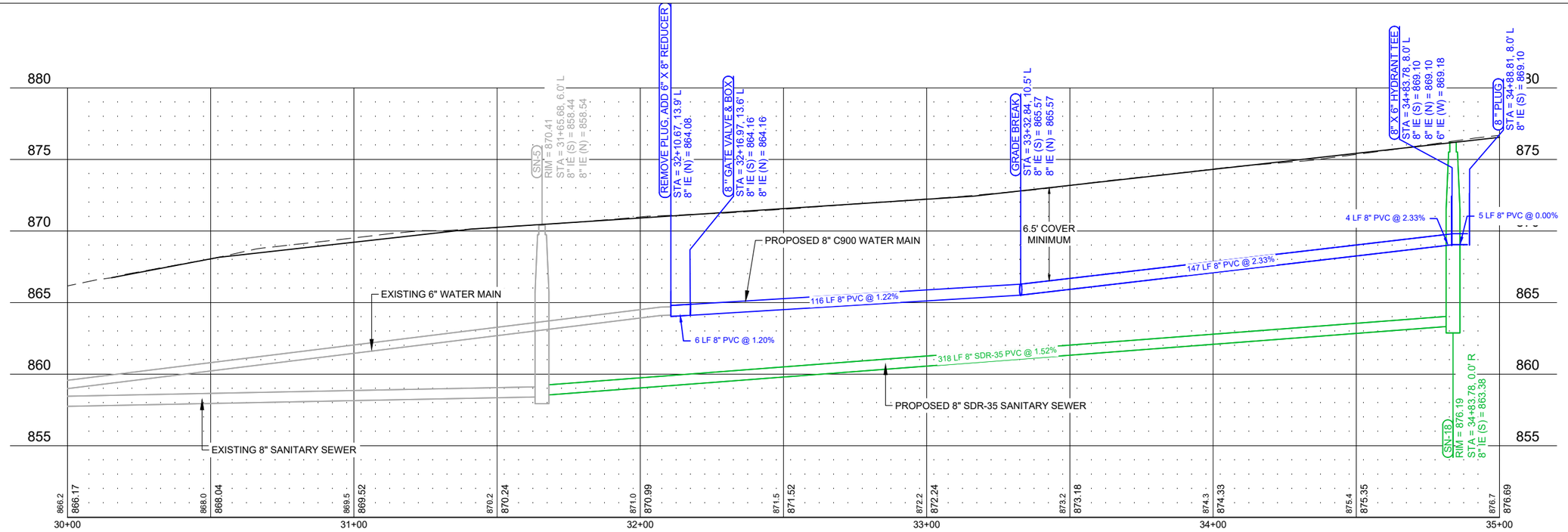

SEH Project	WATRN 186213	Rev.#	Plan Revision Issue Description	Date	Rev.#	Sheet Revision Issue Description	Date
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Designed By	LJK						
Checked By	BP						

EMMET UTILITY EXTENSION
CITY OF WATERTOWN

WATER & SEWER PLANS
PROSPECT STREET

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of 27

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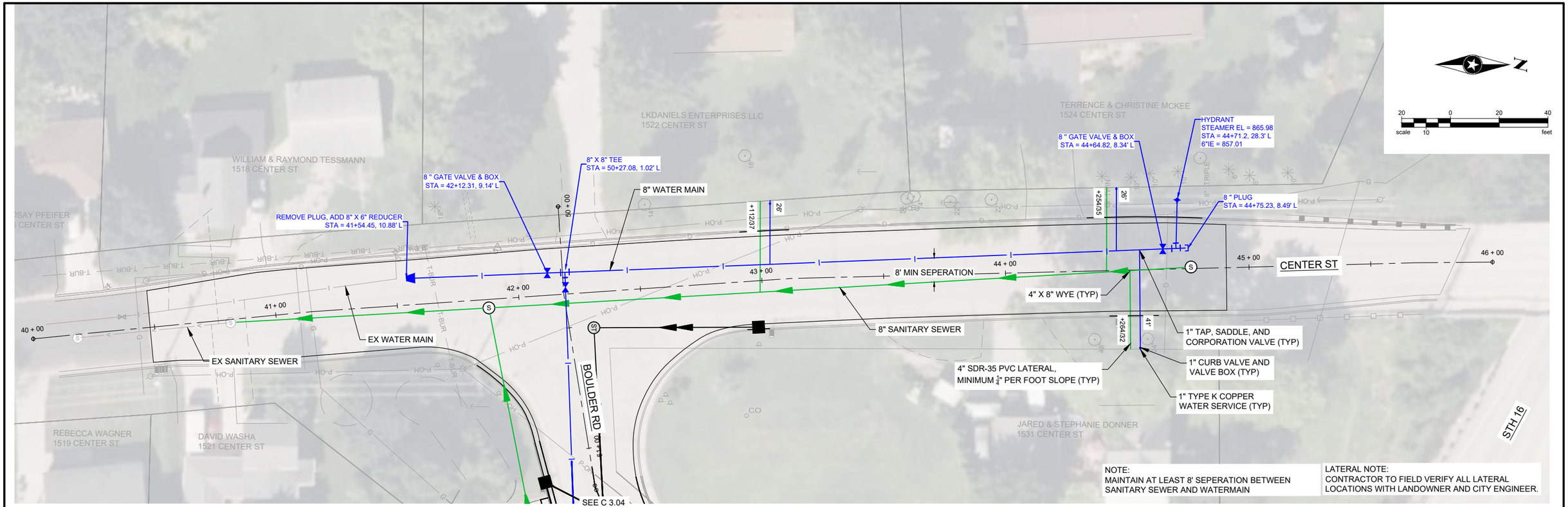
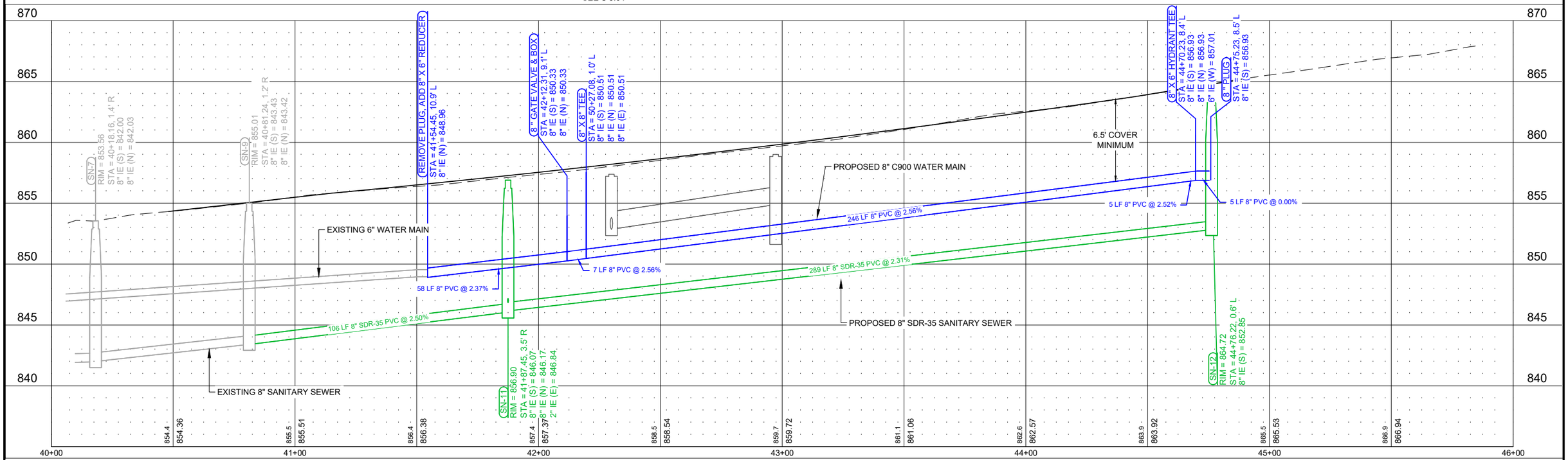


NOTE:
MAINTAIN AT LEAST 8' SEPERATION BETWEEN SANITARY SEWER AND WATERMAIN

LATERAL NOTE:
CONTRACTOR TO FIELD VERIFY ALL LATERAL LOCATIONS WITH LANDOWNER AND CITY ENGINEER.



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SEH Project	WATRN 186213
Drawn By	LJK
Designed By	LJK
Checked By	BP

Rev.#	Plan Revision Issue Description	Date

Rev.#	Sheet Revision Issue Description	Date

EMMET UTILITY EXTENSION
CITY OF WATERTOWN

WATER & SEWER PLANS
CENTER STREET

C 3.03
of 27

SEE C 3.03

8" X 8" TEE
STA = 50+27.08, 1.02' L

8 " GATE VALVE & BOX
STA = 42+12.31, 9.14' L

'OVE PLUG, ADD 8" X 6" REDUCER
STA = 41+54.45, 10.88' L

CENTER ST

50 + 00

51 + 00

52 + 00

53 + 00

54 + 00

STH 16

BOULDER RD

STORM CROSSING
MIN 18" VERTICAL SEPARATION

1" TAP, SADDLE, AND
CORPORATION VALVE (TYP)

MIN 8' HORIZONTAL SEPARATION

8" WATER MAIN

2" LOW PRESSURE
SANITARY SEWER

1.5" CURB VALVE AND BOX (TYP)

1" CURB VALVE AND
VALVE BOX (TYP)

1.5" HDPE SEWER LATERAL (TYP)

1" TYPE K COPPER
WATER SERVICE (TYP)

HYDRANT
STEAMER EL = 846.93
STA = 54+01.1, 31.5' R
6"IE = 838.41

TERMINAL FLUSHING
VALVE AND CLEANOUT

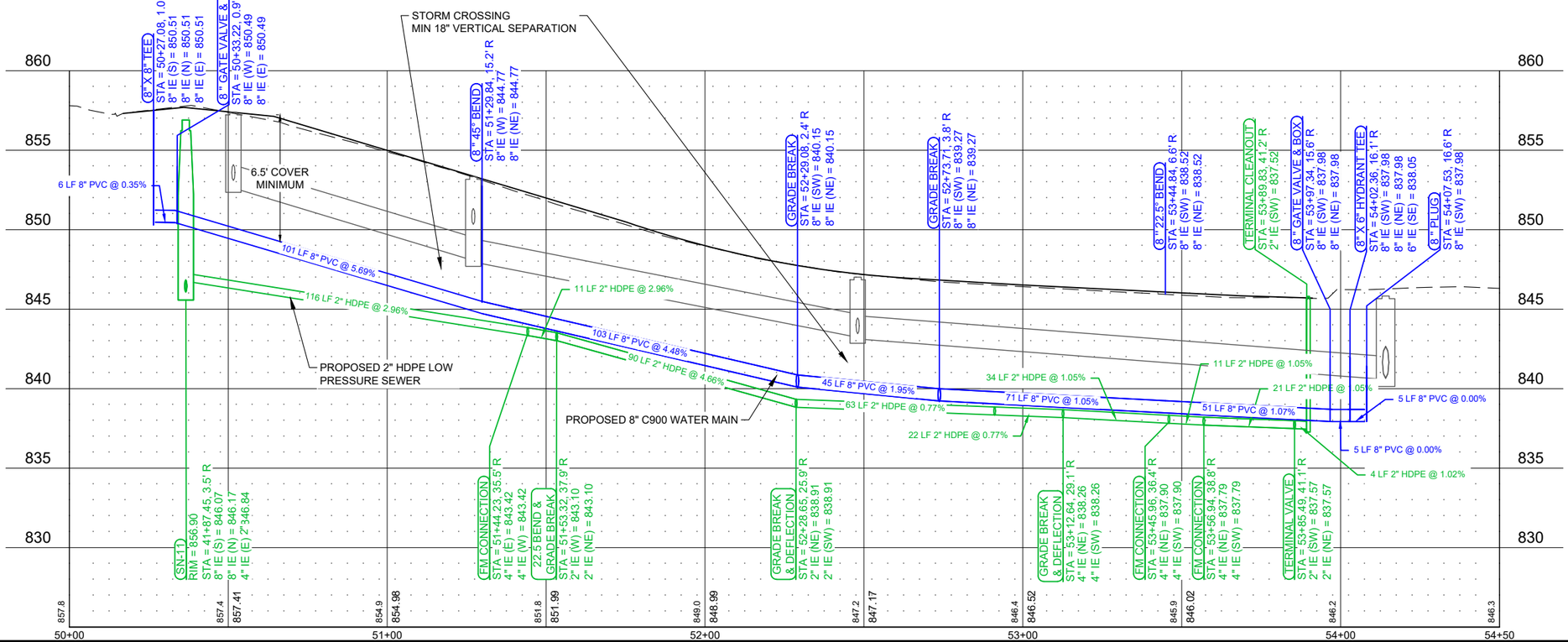
NOTE:
MAINTAIN AT LEAST 8' SEPERATION BETWEEN
SANITARY SEWER AND WATERMAIN

LATERAL NOTE:
CONTRACTOR TO FIELD VERIFY ALL LATERAL
LOCATIONS WITH LANDOWNER AND CITY ENGINEER.

WARREN & SHEILA HALBROOK
1537 BOULDER RD

DEBRA EBERT
1527 BOULDER RD

20 0 20 40
scale 10 feet



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Drawn By	LJK						
Designed By	LJK						
Checked By	BP						

EMMET UTILITY EXTENSION
CITY OF WATERTOWN

WATER & SEWER PLANS
BOULDER ROAD

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of 27

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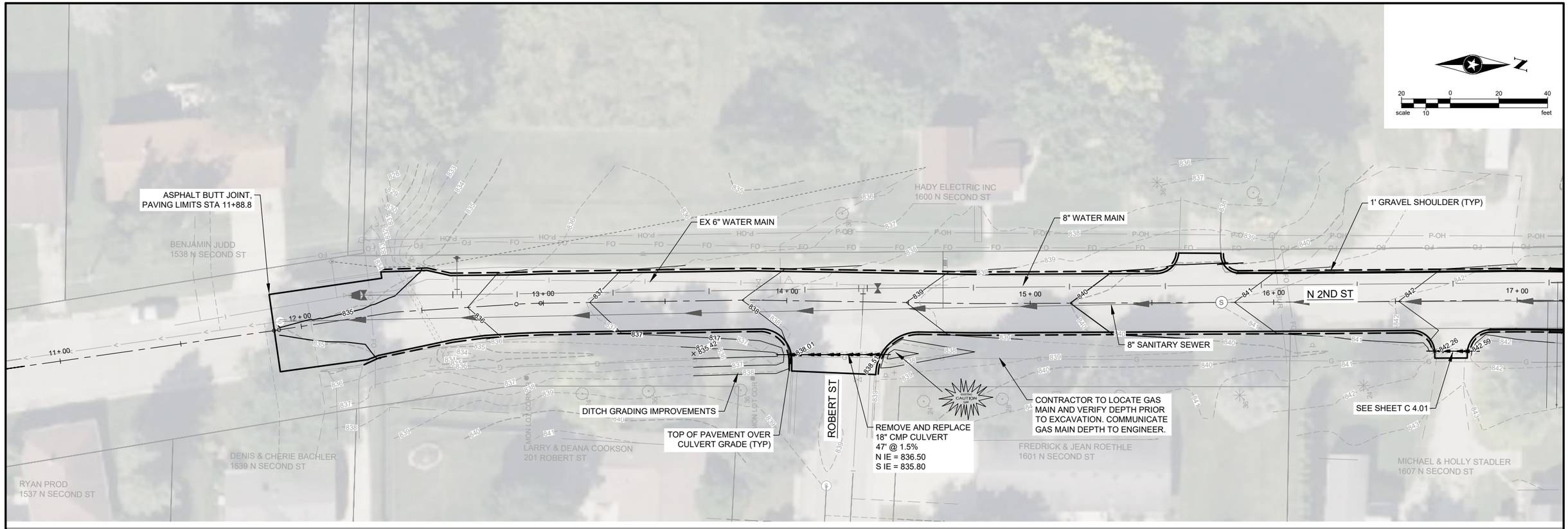

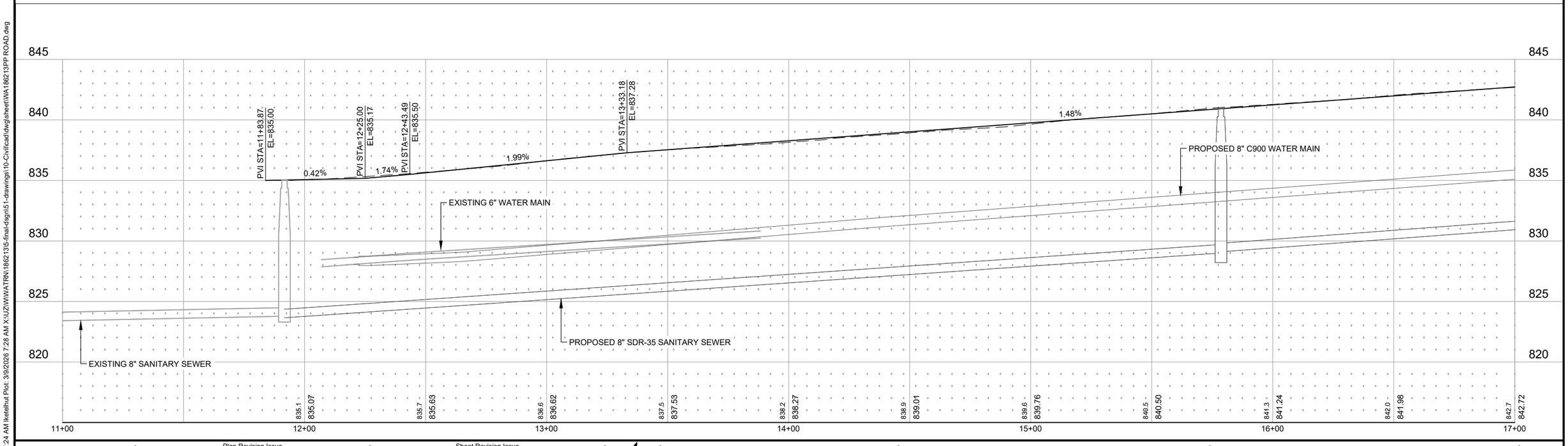

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SEH Project	WATRN 186213
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Designed By	LJK
Checked By	BP

Rev.#	Plan Revision Issue Description	Date

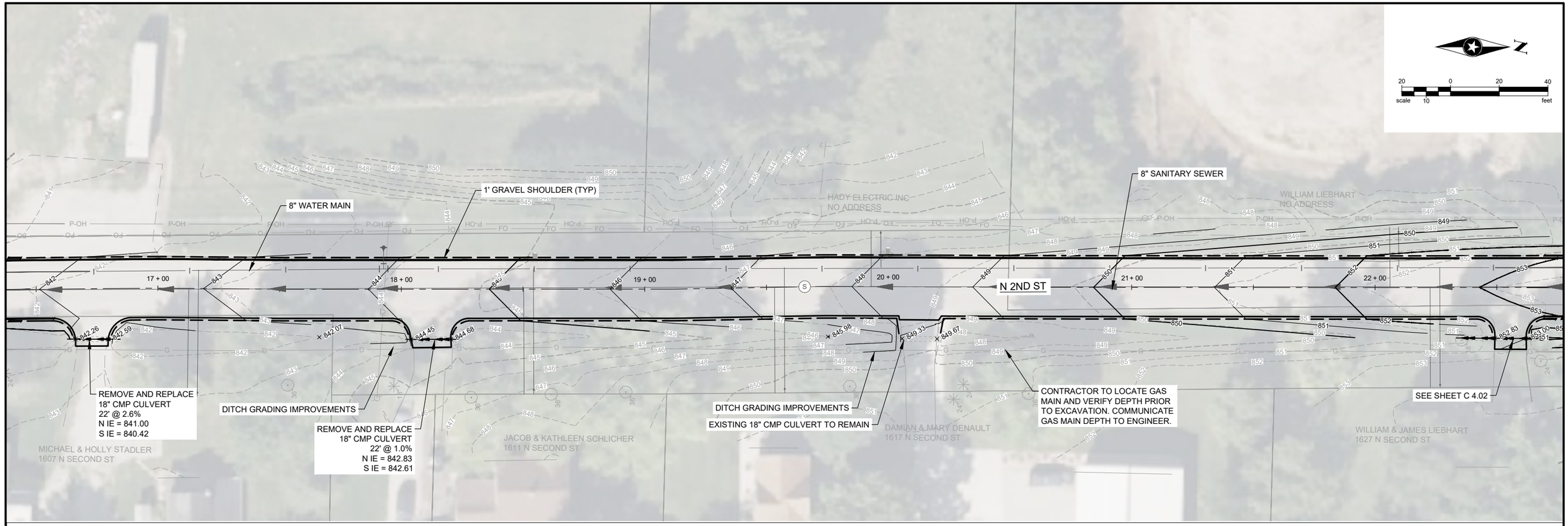
Rev.#	Sheet Revision Issue Description	Date

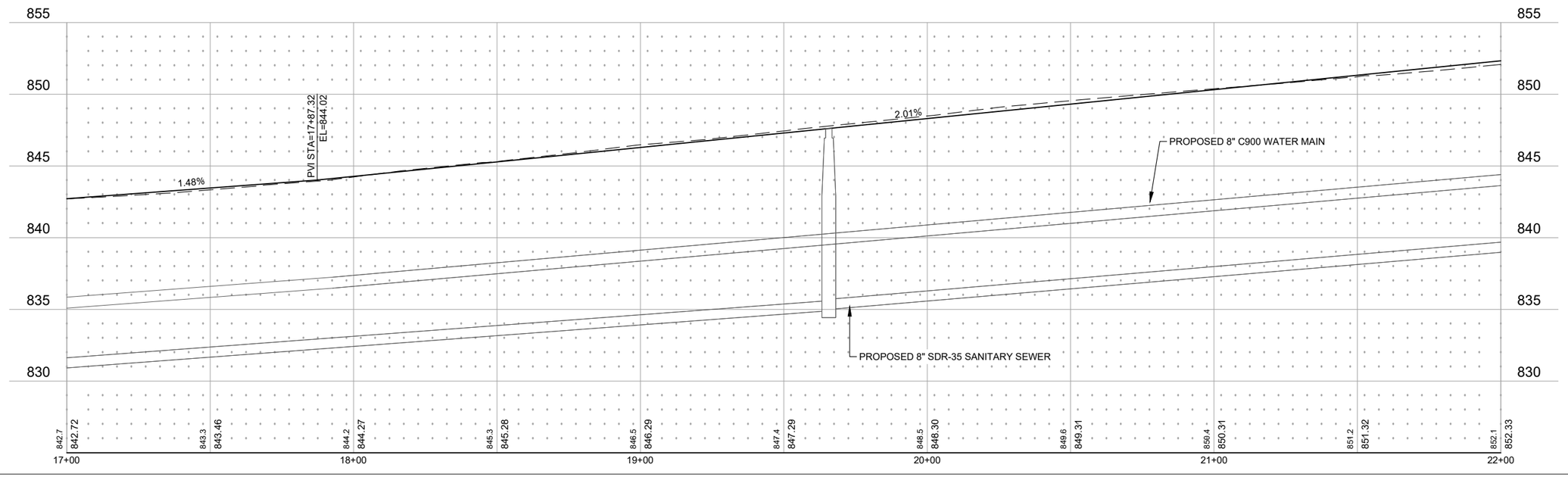
SEH

EMMET UTILITY EXTENSION
CITY OF WATERTOWN

ROAD PLANS
NORTH 2ND STREET

C 4.00
of 27





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SEH Project	WATRN 186213	Rev.#	Plan Revision Issue Description	Date	Rev.#	Sheet Revision Issue Description	Date
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Designed By	LJK						
Checked By	BP						

EMMET UTILITY EXTENSION
CITY OF WATERTOWN

ROAD PLANS
NORTH 2ND STREET

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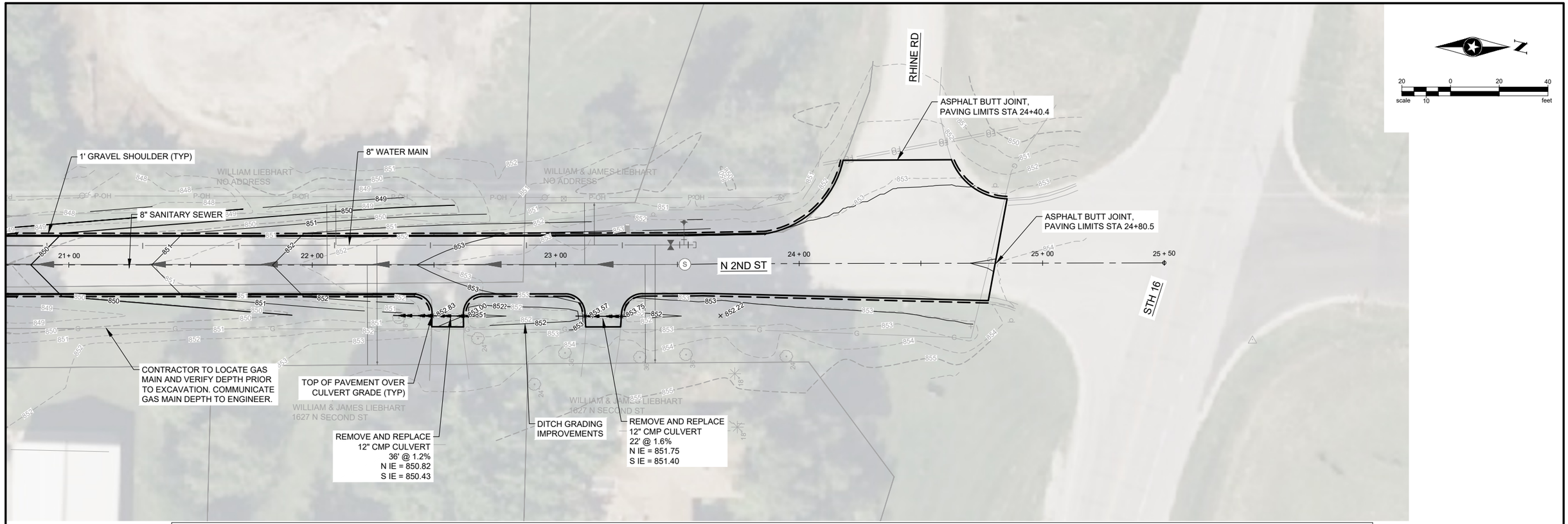
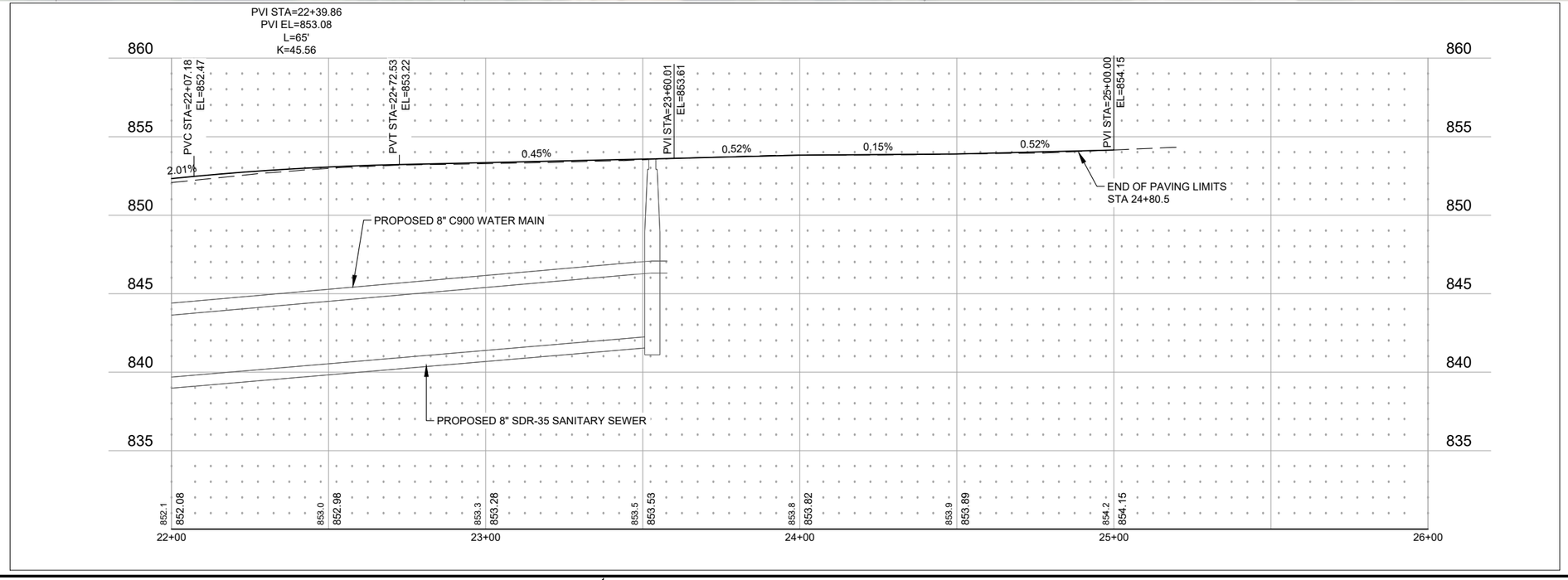
of 27





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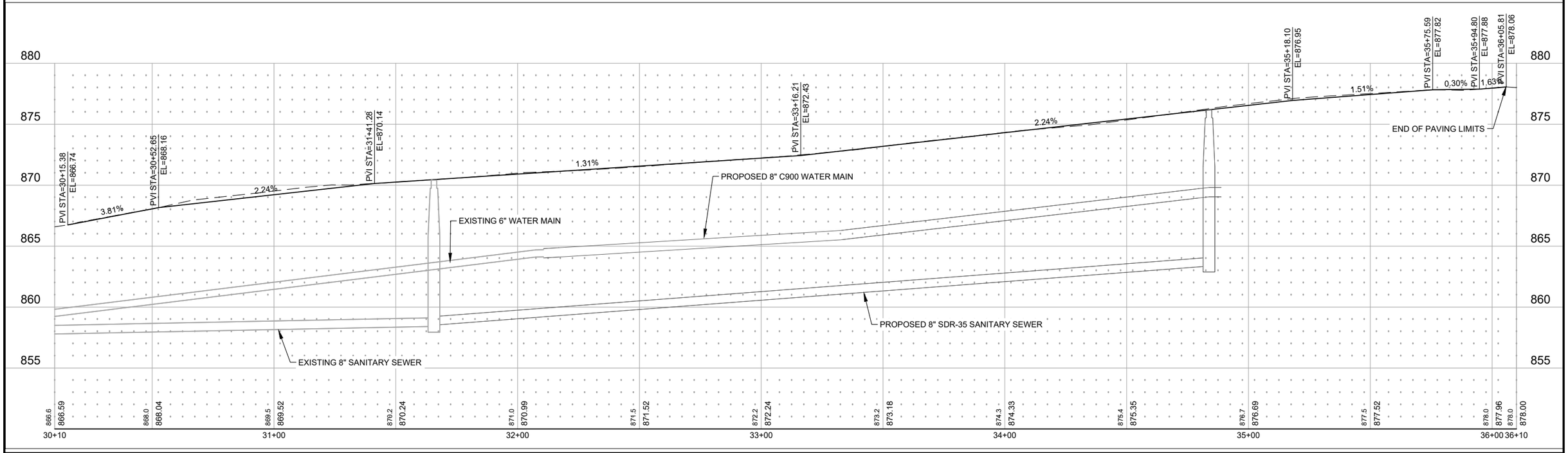
SEH Project	WATRN 186213	Rev.#	Plan Revision Issue Description	Date	Rev.#	Sheet Revision Issue Description	Date	EMMET UTILITY EXTENSION CITY OF WATERTOWN	ROAD PLANS NORTH 2ND STREET	C 4.02
Drawn By	LJK									of 27
Designed By	LJK									
Checked By	BP									



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SEH Project	WATRN 186213	Rev.#	Plan Revision Issue Description	Date	Rev.#	Sheet Revision Issue Description	Date
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Designed By	LJK						
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EMMET UTILITY EXTENSION
CITY OF WATERTOWN

ROAD PLANS
PROSPECT STREET

C 4.03
of 27

STRIPING NOTE:
CONTRACTOR TO STRIPE CENTER STREET AND BOULDER ROAD CENTERLINE WITH YELLOW EPOXY TO MATCH EXISTING.

LKDANIELS ENTERPRISES LLC
1522 CENTER ST

TERRENCE & CHRISTINE MCKEE
1524 CENTER ST

WILLIAM & RAYMOND TESSMANN
1518 CENTER ST

REBECCA WAGNER
1519 CENTER ST

DAVID WASHA
1521 CENTER ST

JARED & STEPHANIE DONNER
1531 CENTER ST

BOULDER RD

STH 16

ASPHALT BUTT JOINT, PAVING LIMITS STA 40+48

EX WATER MAIN

8" WATER MAIN

REPLACE CURB AND GUTTER IN KIND AFTER SERVICE INSTALLATION (TYP)

MATCH FLANGE GRADE (TYP)

REPLACE CURB AND GUTTER IN KIND AFTER SERVICE INSTALLATION (TYP)

8" SANITARY SEWER

ASPHALT BUTT JOINT, PAVING LIMITS STA 44+90.7

EX SANITARY SEWER

REMOVE AND REPLACE CURB & GUTTER (TYP)

68 LF 12" RCP Class V @ 3.00%

INLET
STA = 50+62.2, 76.7' L
G/L 859.01
12" (S) = 855.12

48" MH
STA = 50+51.6, 10.0' L
RIM 857.39
12" (N) = 853.09
12" (E) = 852.84

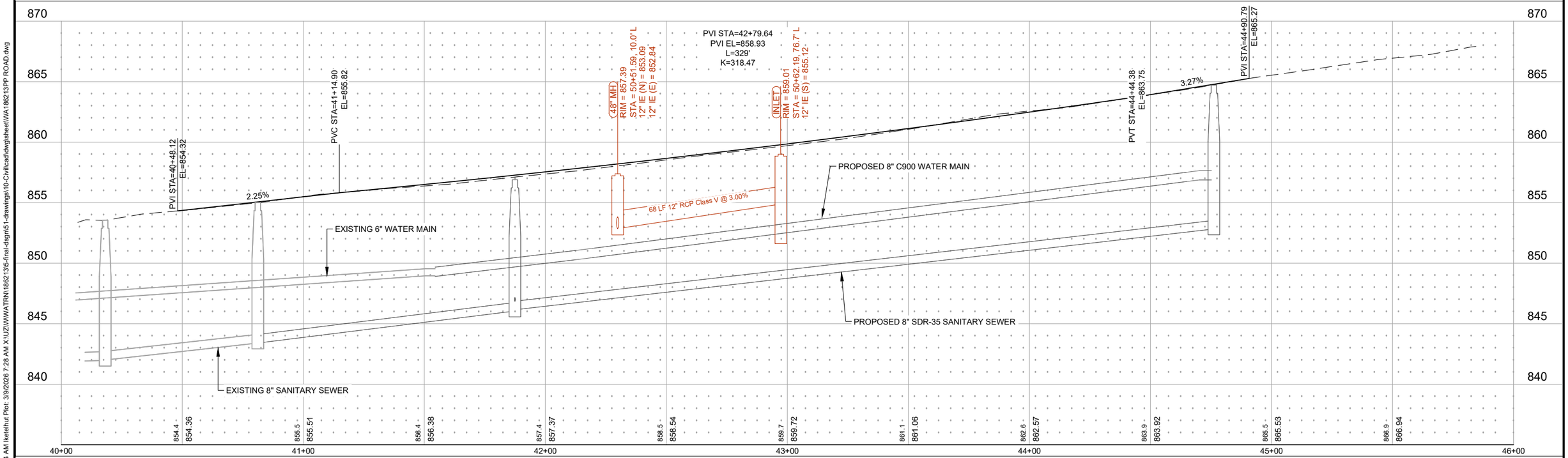
27 LF 12" RCP Class V @ 1.00%

76 LF 12" RCP Class V @ 6.00%

REPLACE CURB AND GUTTER IN KIND AFTER SERVICE INSTALLATION (TYP)

scale 10 — 20 0 20 40 feet

40 + 00 | 41 + 00 | 42 + 00 | 43 + 00 | 44 + 00 | 45 + 00 | 46 + 00



SEH Project	WATRN 186213	Rev.#	Plan Revision Issue Description	Date	Rev.#	Sheet Revision Issue Description	Date	EMMET UTILITY EXTENSION CITY OF WATERTOWN	ROAD PLANS CENTER STREET
Drawn By	LJK								C 4.04
Designed By	LJK								of 27
Checked By	BP								

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STRIPING NOTE:
CONTRACTOR TO STRIPE CENTER STREET AND BOULDER ROAD CENTERLINE WITH YELLOW EPOXY TO MATCH EXISTING.

12" (S) = 855.12

68 LF 12" RCP Class V @ 3.00%

48" MH
STA = 50+51.6, 10.0' L
RIM 857.39
12" (N) = 853.09
12" (E) = 852.84

76 LF 12" RCP Class V @ 6.00%

WATER MAIN CROSSING
MIN 18" VERTICAL SEPARATION
INSTALL INSULATION

RAISE ROAD CENTERLINE 4"

27 LF 12" RCP Class V @ 1.00%

32 LF 12" RCP Class V @ 1.00%

119 LF 12" RCP Class V @ 4.00%

170 LF 12" RCP Class V @ 1.50%

BOULDER RD

CENTER ST

REMOVE AND RECONSTRUCT CURB & GUTTER (TYP)

PROTECT EXISTING MAILBOX DURING CONSTRUCTION

INLET
STA = 51+11.0, 19.8' R
RIM 853.68
12" (NE) = 850.60

48" MH
STA = 51+27.1, 0.9' R
RIM 853.33
12" (NE) = 848.19
12" (W) = 848.29
12" (SW) = 850.33

INLET
STA = 52+38.5, 20.0' R
RIM 846.75
12" (NW) = 843.77

48" MH
STA = 52+48.0, 10.2' L
RIM 847.01
12" (SE) = 843.45
12" (NE) = 843.35
12" (SW) = 843.45

60" DOGHOUSE MH
STA = 54+14.1, 24.7' L
G/L 845.82
12" (SW) = 840.80
24" (NW) = 840.67
24" (SE) = 840.63

ASPHALT BUTT JOINT, PAVING LIMITS STA 54+27.6

CONTRACTOR TO VERIFY EXISTING INVERT ELEVATION PRIOR TO INSTALLATION

ASPHALT BUTT JOINT, PAVING LIMITS STA 54+15.3

DEPRESS CURB HEAD THROUGH DRIVES (TYP)

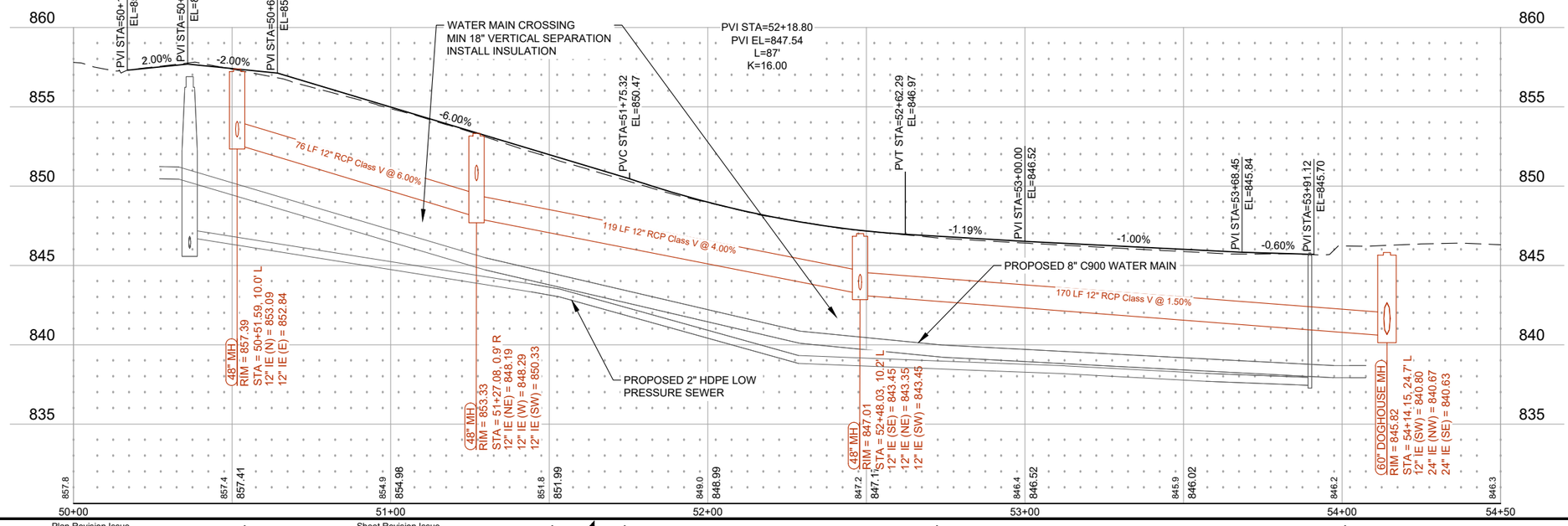
REPLACE CURB AND GUTTER IN KIND AFTER SERVICE INSTALLATION (TYP)

INSTALL RIP-RAP AT EXISTING 24" CULVERT

INSTALL SEDIMENT LOGS ALONG ENTIRE EAST SIDE OF ROADWAY WHERE CURB IS REMOVED

STH 16

20 0 20 40
scale 10 feet



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EMMET UTILITY EXTENSION
CITY OF WATERTOWN

ROAD PLANS
BOULDER ROAD

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of 27

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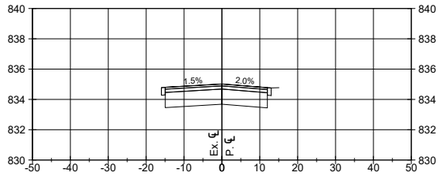
11+88.81



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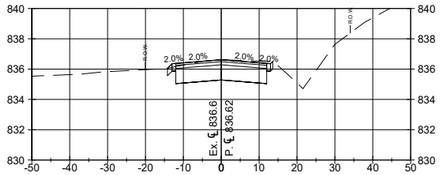

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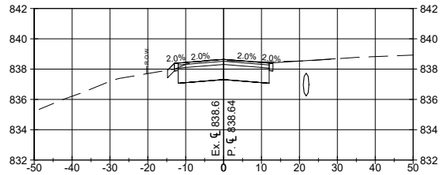

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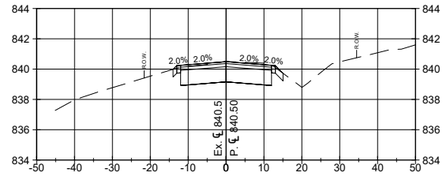

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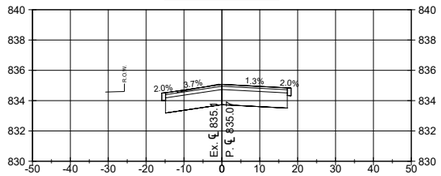

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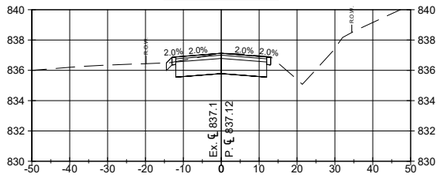

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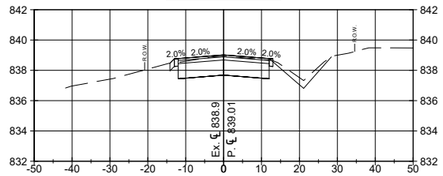

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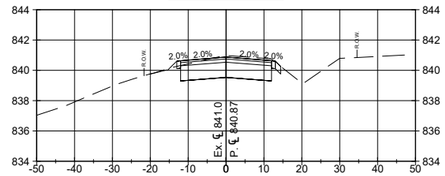

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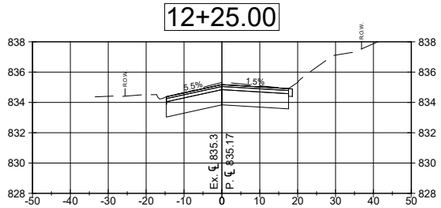

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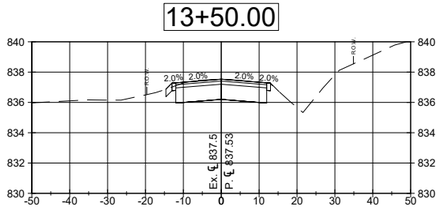

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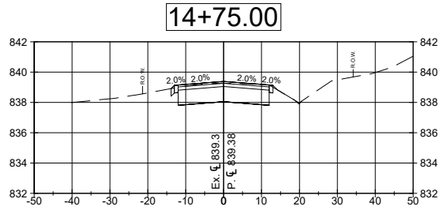

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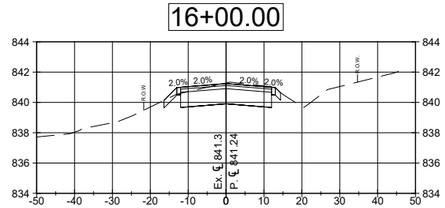

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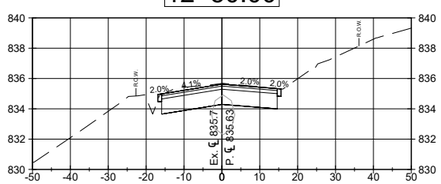

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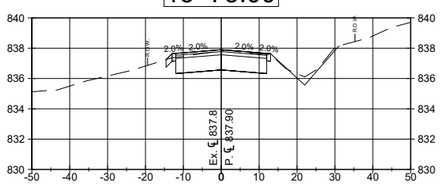

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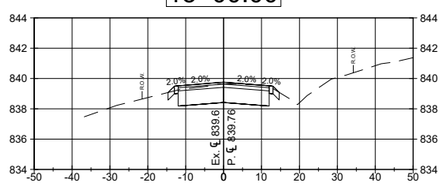

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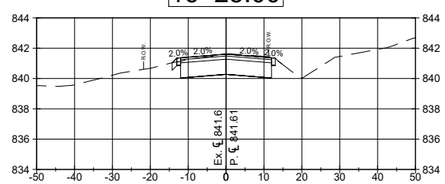

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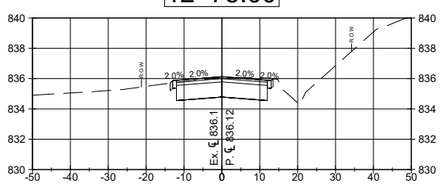

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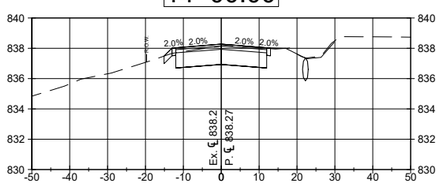

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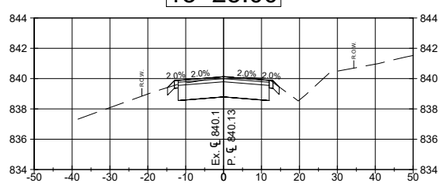

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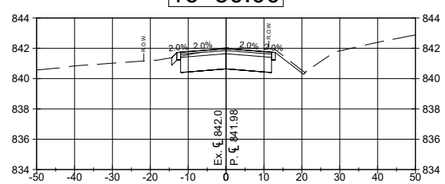

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SEH Project	WATRN 186213	Rev.#			Rev.#		
Drawn By	LJK	.			.		
Designed By	LJK	.			.		
Checked By	BP	.			.		

SEH

EMMET UTILITY EXTENSION
CITY OF WATERTOWN

ROAD CROSS SECTIONS
NORTH 2ND STREET

C 4.06
of 27

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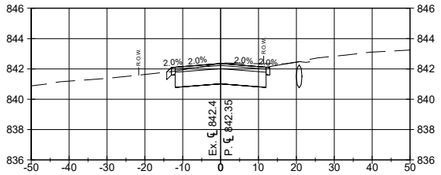

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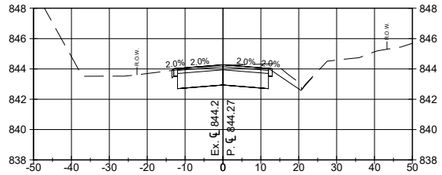

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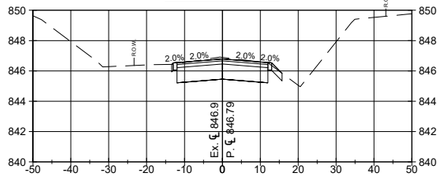

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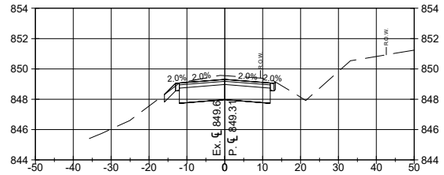

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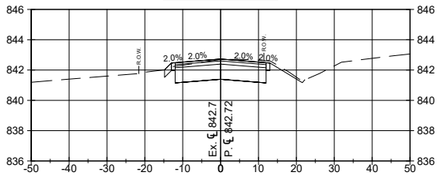

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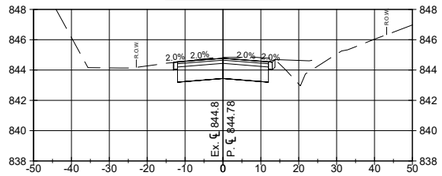

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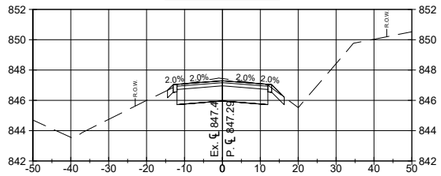

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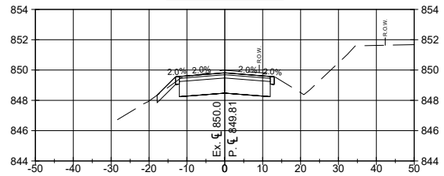

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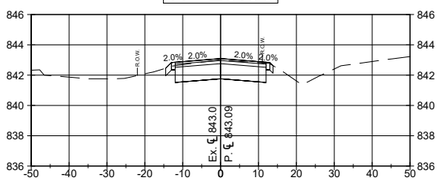

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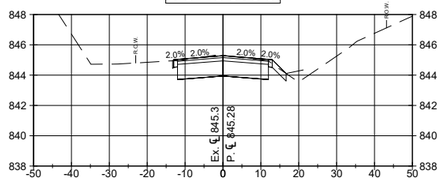

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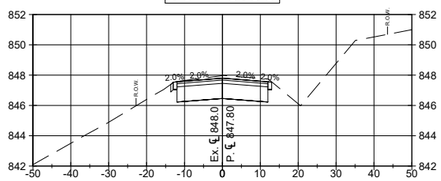

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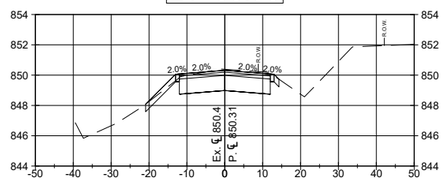

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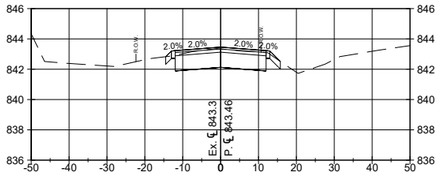

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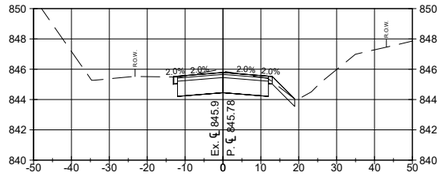

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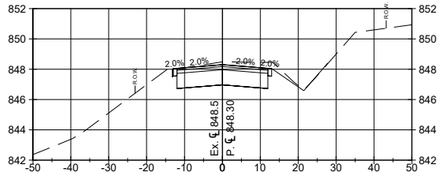

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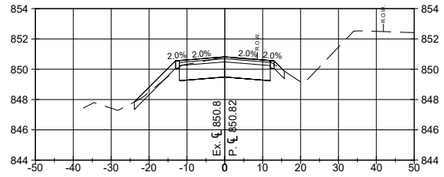

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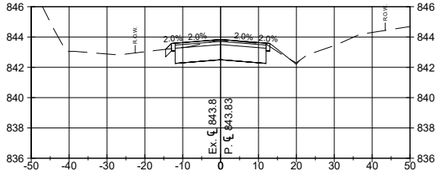

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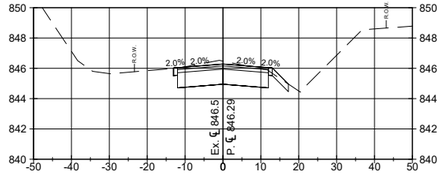

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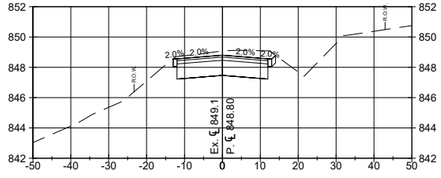

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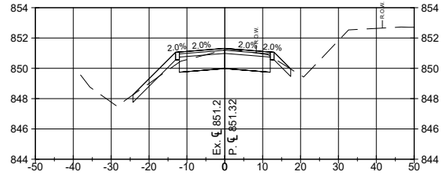

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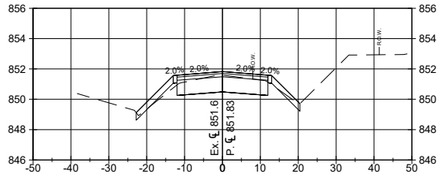
Drawn By	LJK	.			.		
Designed By	LJK	.			.		
Checked By	BP	.			.		

EMMET UTILITY EXTENSION
CITY OF WATERTOWN

ROAD CROSS SECTIONS
NORTH 2ND STREET

C 4.07
of 27

21+75.00



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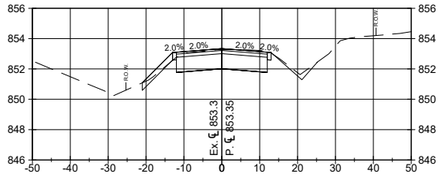

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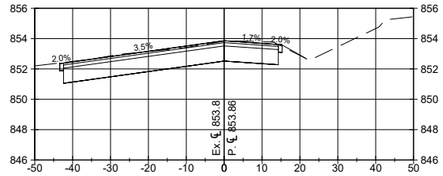

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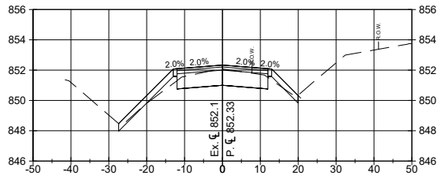

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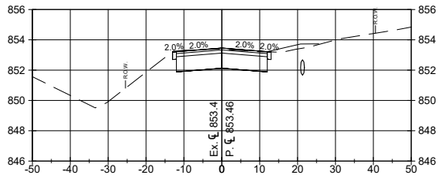

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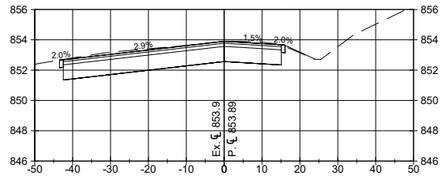

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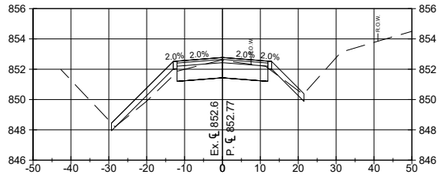

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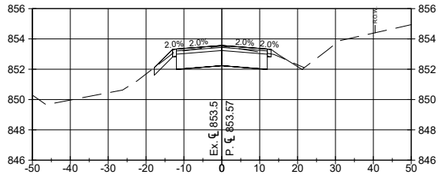

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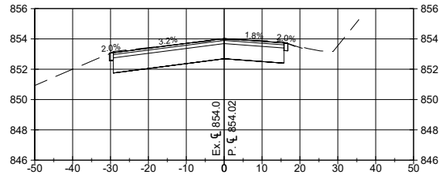

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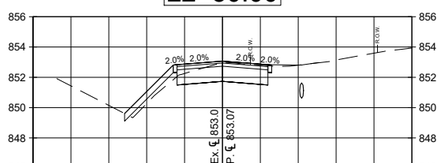

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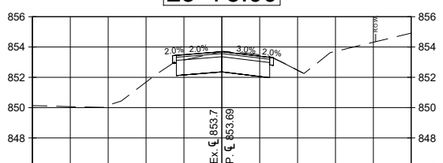

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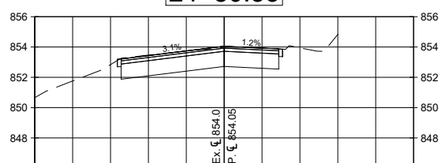

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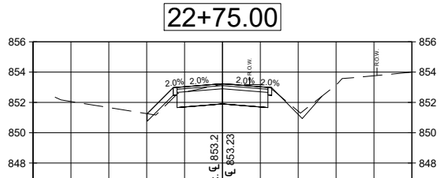

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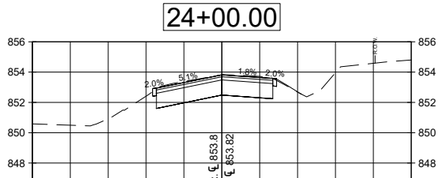

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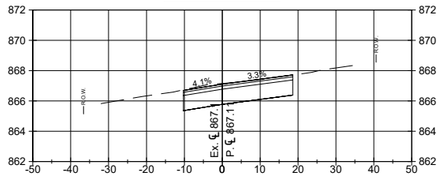
SEH Project	WATRN 186213	.			.		
Drawn By	LJK	.			.		
Designed By	LJK	.			.		
Checked By	BP	.			.		

SEH

EMMET UTILITY EXTENSION
CITY OF WATERTOWN

ROAD CROSS SECTIONS
NORTH 2ND STREET

30+25.00



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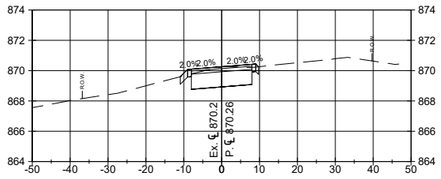

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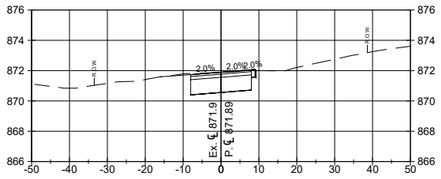

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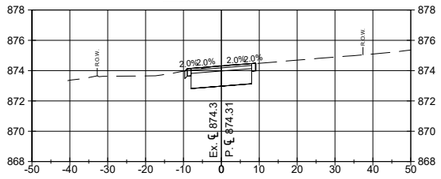

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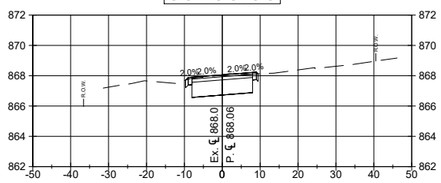

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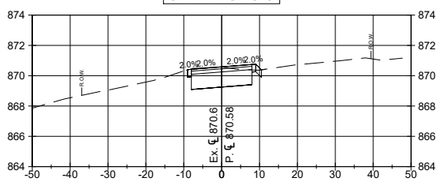

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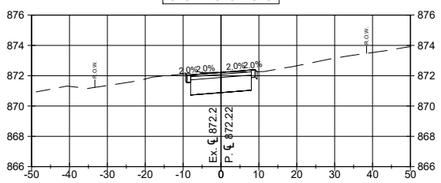

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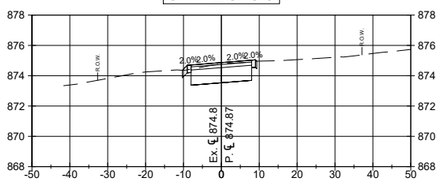

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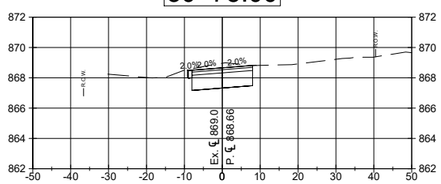

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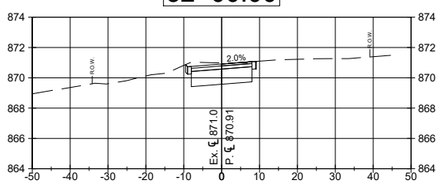

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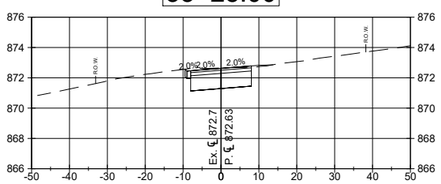

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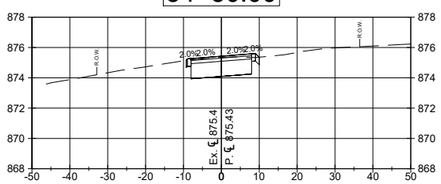

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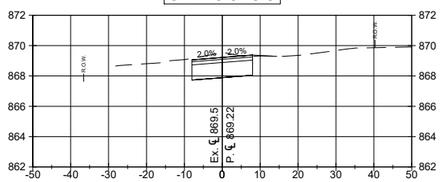

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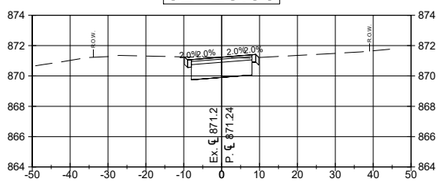

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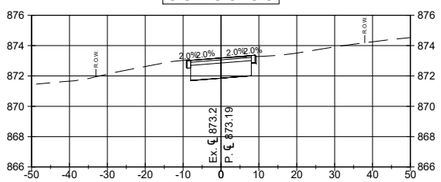

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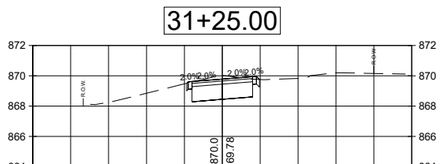

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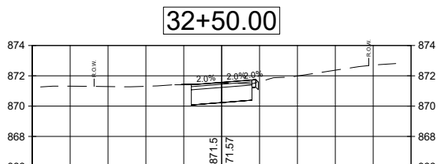

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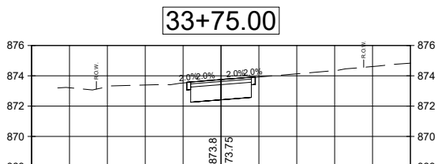

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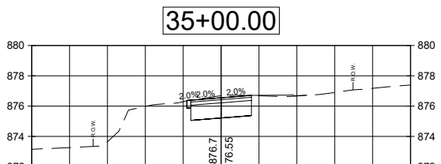

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Drawn By	LJK	.			.		
Designed By	LJK	.			.		
Checked By	BP	.			.		

EMMET UTILITY EXTENSION
CITY OF WATERTOWN

ROAD CROSS SECTIONS
PROSPECT STREET

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of 27

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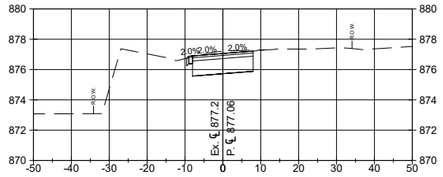

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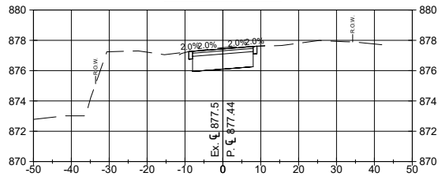

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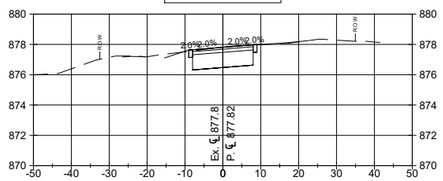

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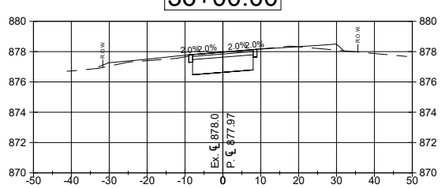

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Drawn By	LJK	.			.		
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EMMET UTILITY EXTENSION
CITY OF WATERTOWN

ROAD CROSS SECTIONS
PROSPECT STREET

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of 27

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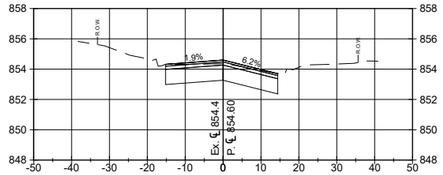

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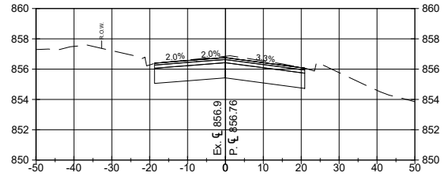

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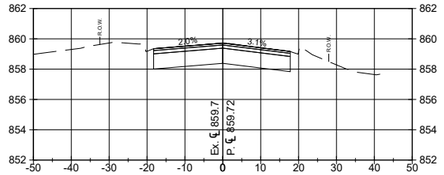

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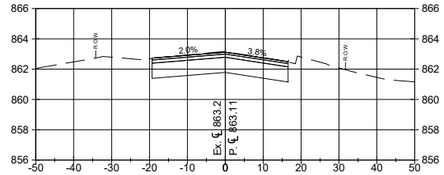

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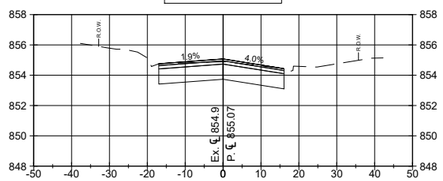

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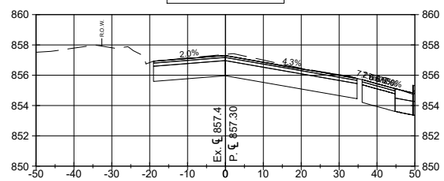

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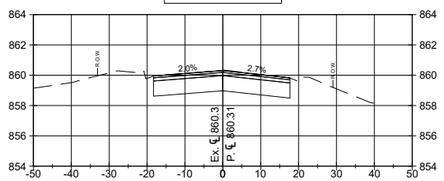

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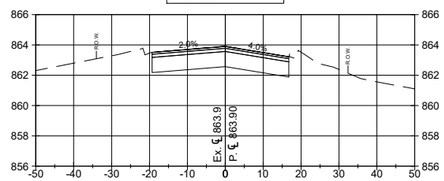

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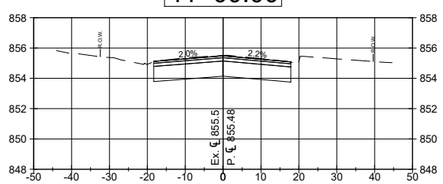

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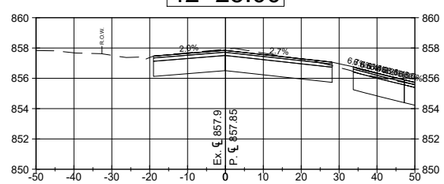

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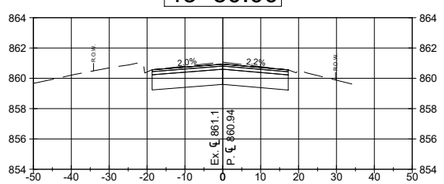

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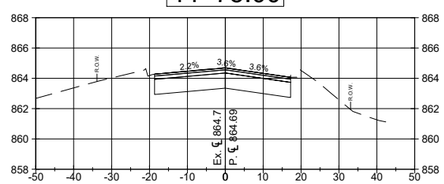

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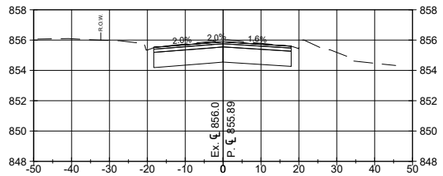

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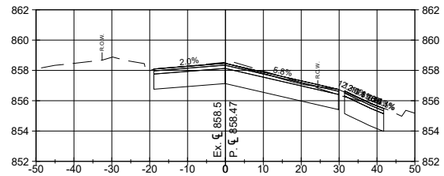

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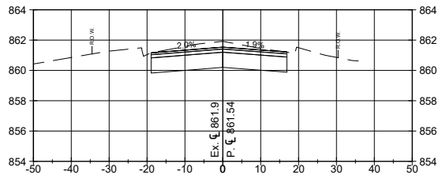

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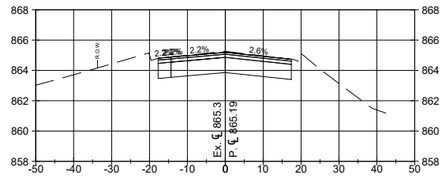

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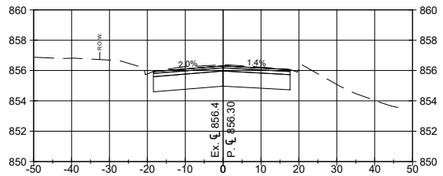

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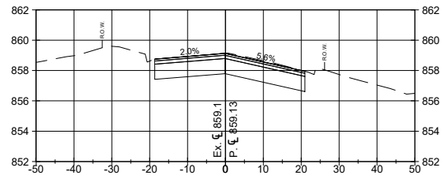

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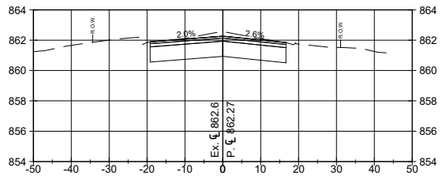

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EMMET UTILITY EXTENSION
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of 27

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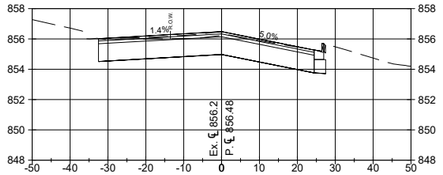

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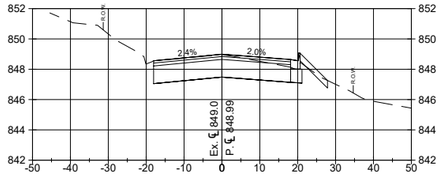

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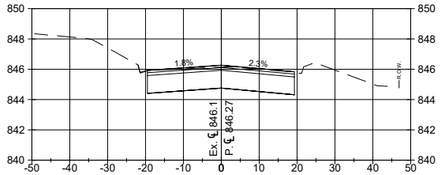

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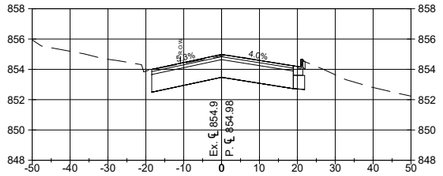

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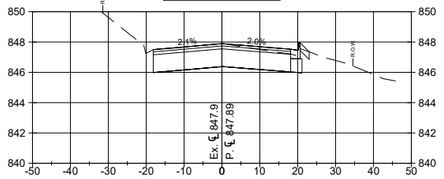

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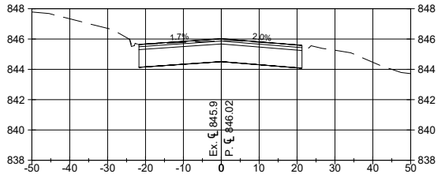

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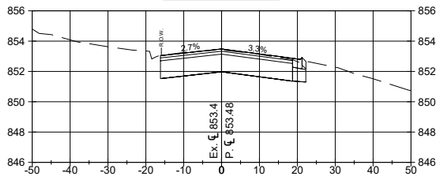

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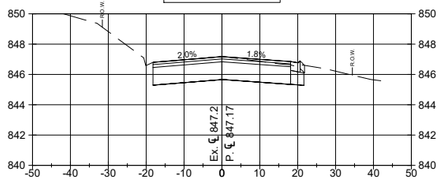

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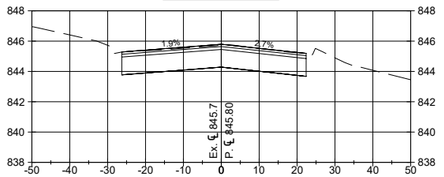

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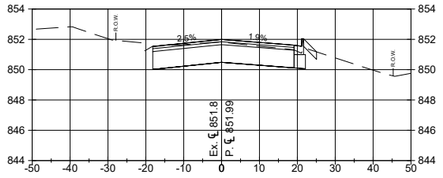

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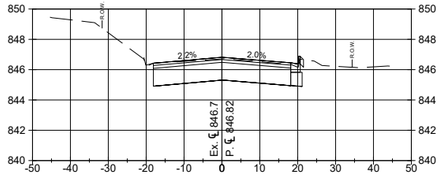

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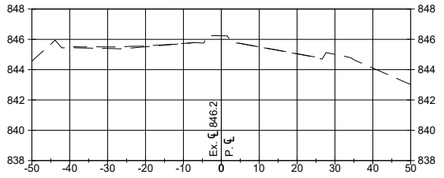

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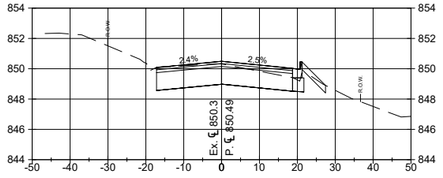

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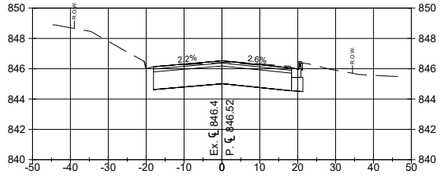

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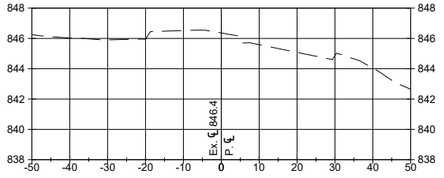

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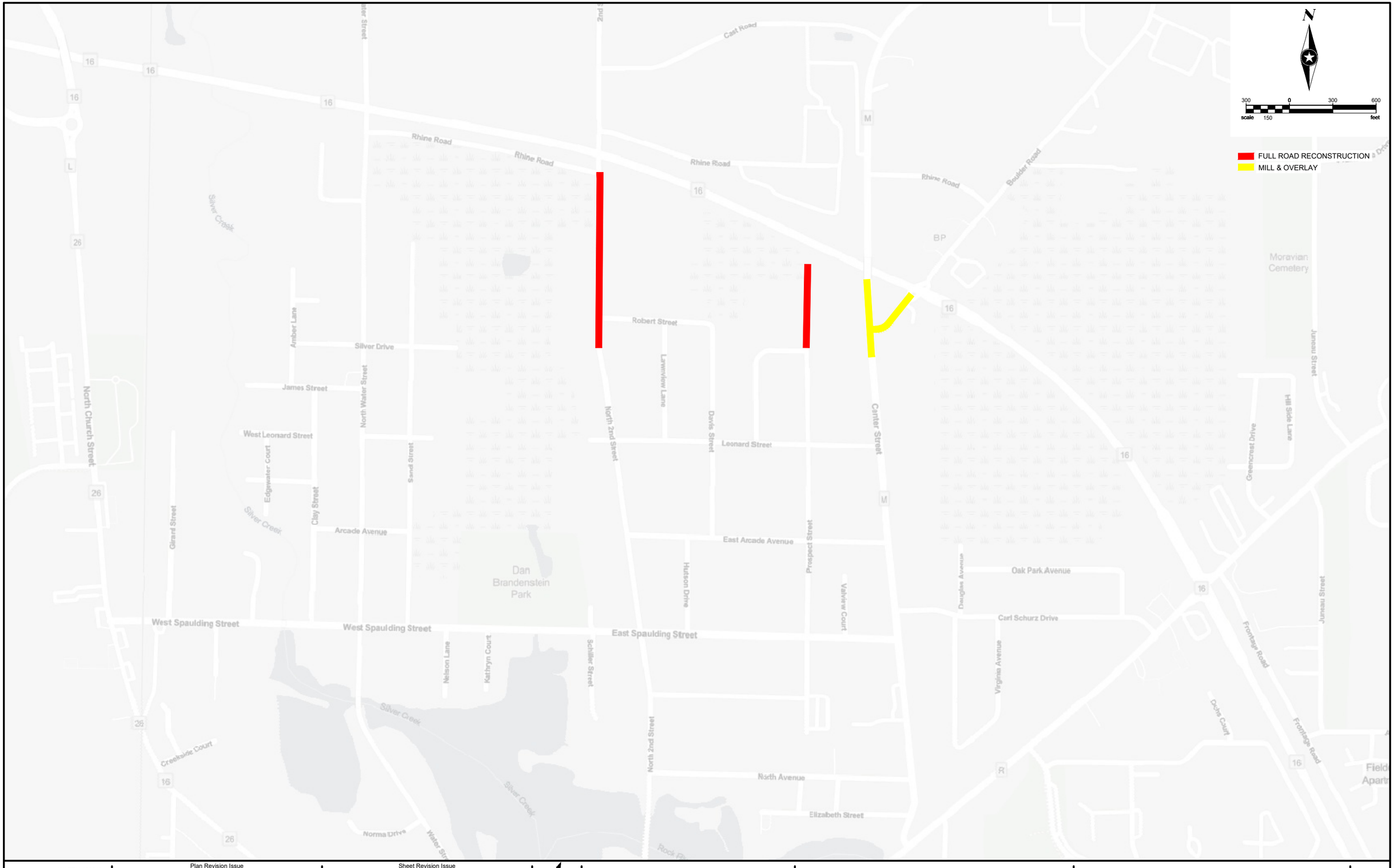
		Rev.#	Plan Revision Issue Description	Date	Rev.#	Sheet Revision Issue Description	Date
SEH Project	WATRN 186213	.			.		
Drawn By	LJK	.			.		
Designed By	LJK	.			.		
Checked By	BP	.			.		

SEH

EMMET UTILITY EXTENSION
CITY OF WATERTOWN

ROAD CROSS SECTIONS
BOULDER ROAD

C 4.12
of 27



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SEH Project	WATRN 186213	Rev.#	Plan Revision Issue Description	Date	Rev.#	Sheet Revision Issue Description	Date	SEH	EMMET UTILITY EXTENSION CITY OF WATERTOWN
Drawn By	LJK								**TRAFFIC CONTROL MAP**
Designed By	LJK								C 4.13
Checked By	BP								of 27