MENDOTA AVE./N. GATEWAY ST./CHARING CROSS RECONSTRUCTION

PROJ #16-105

CITY OF MIDDLETON
DANE COUNTY, WISCONSIN

QUAM ENGINEERING, LLC 4604 Siggelkow Road, Suite A – McFarland, WI 53558 (608) 838–7750

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5	19+00 – 25+00	MENDOTA AVENUE PLAN AND PROFILE
6	25+00 – 27+00	MENDOTA AVENUE PLAN AND PROFILE WITH SPECIAL DETAILS
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8	36+00 – 42+00	N. GATEWAY STREET PLAN AND PROFILE
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15	61+00 – 63+00	MOUND DRIVE CROSS–CROSS SECTIONS
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Residential and Commercial Site Design Consultants
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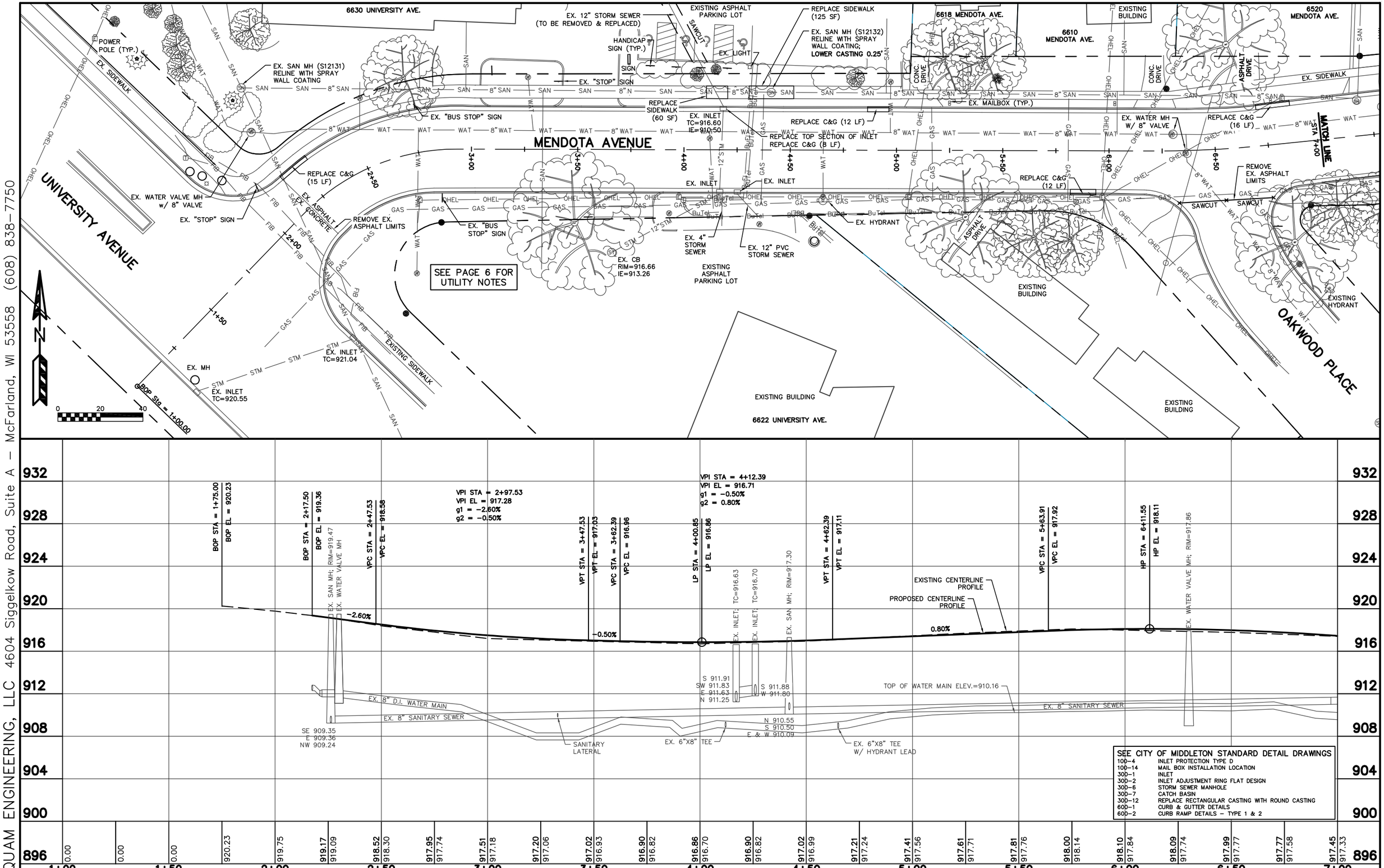

SEE CITY OF MIDDLETON STANDARD DETAIL DRAWINGS

100-4	INLET PROTECTION TYPE D
100-14	MAIL BOX INSTALLATION LOCATION
300-1	INLET
300-2	INLET ADJUSTMENT RING FLAT DESIGN
300-6	STORM SEWER MANHOLE
300-7	CATCH BASIN
300-12	REPLACE RECTANGULAR CASTING WITH ROUND CASTING
600-1	CURB & GUTTER DETAILS
600-2	CURB RAMP DETAILS – TYPE 1 & 2

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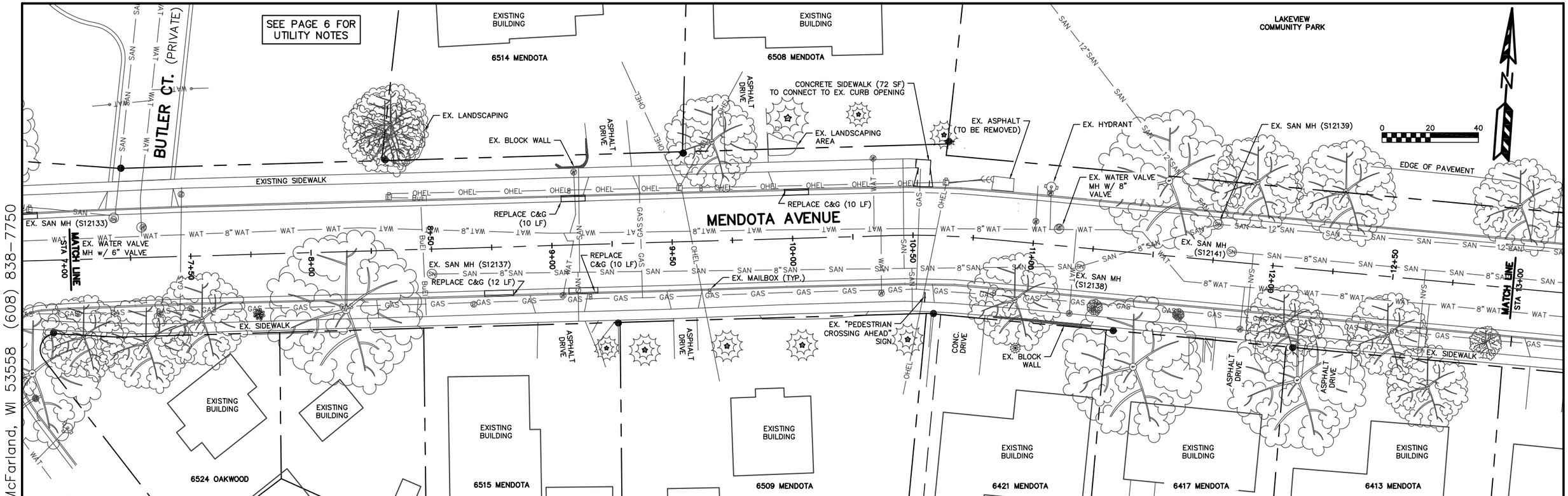

VPI STA = 8+28.91
VPI EL = 920.04
g1 = 0.80%
g2 = −8.10%

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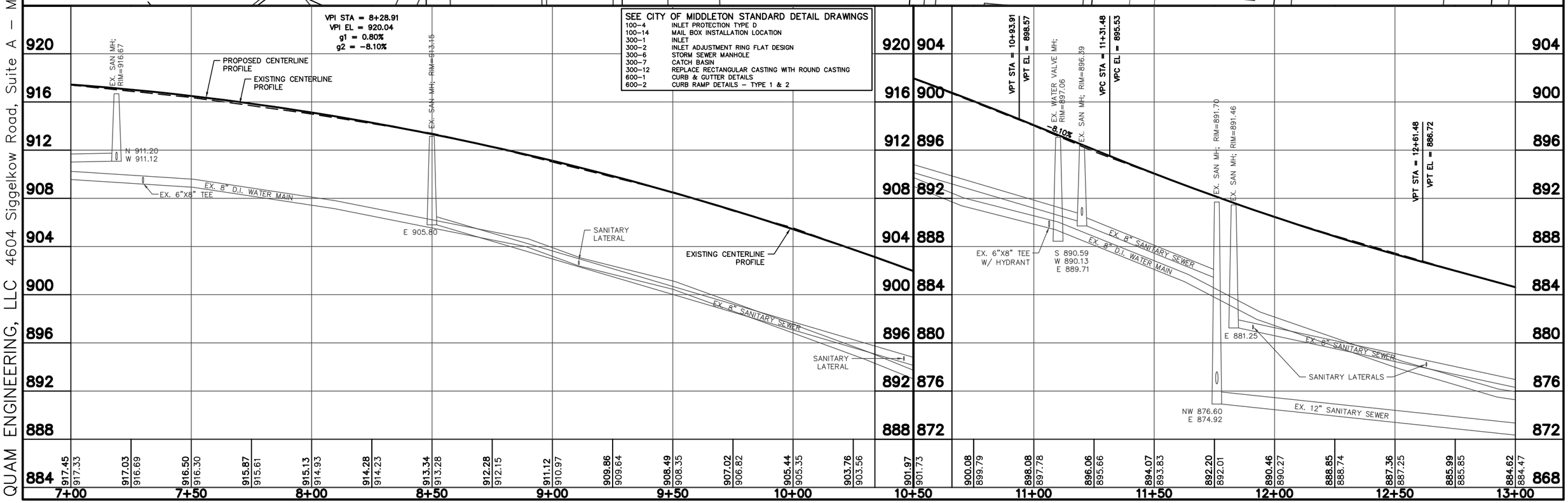

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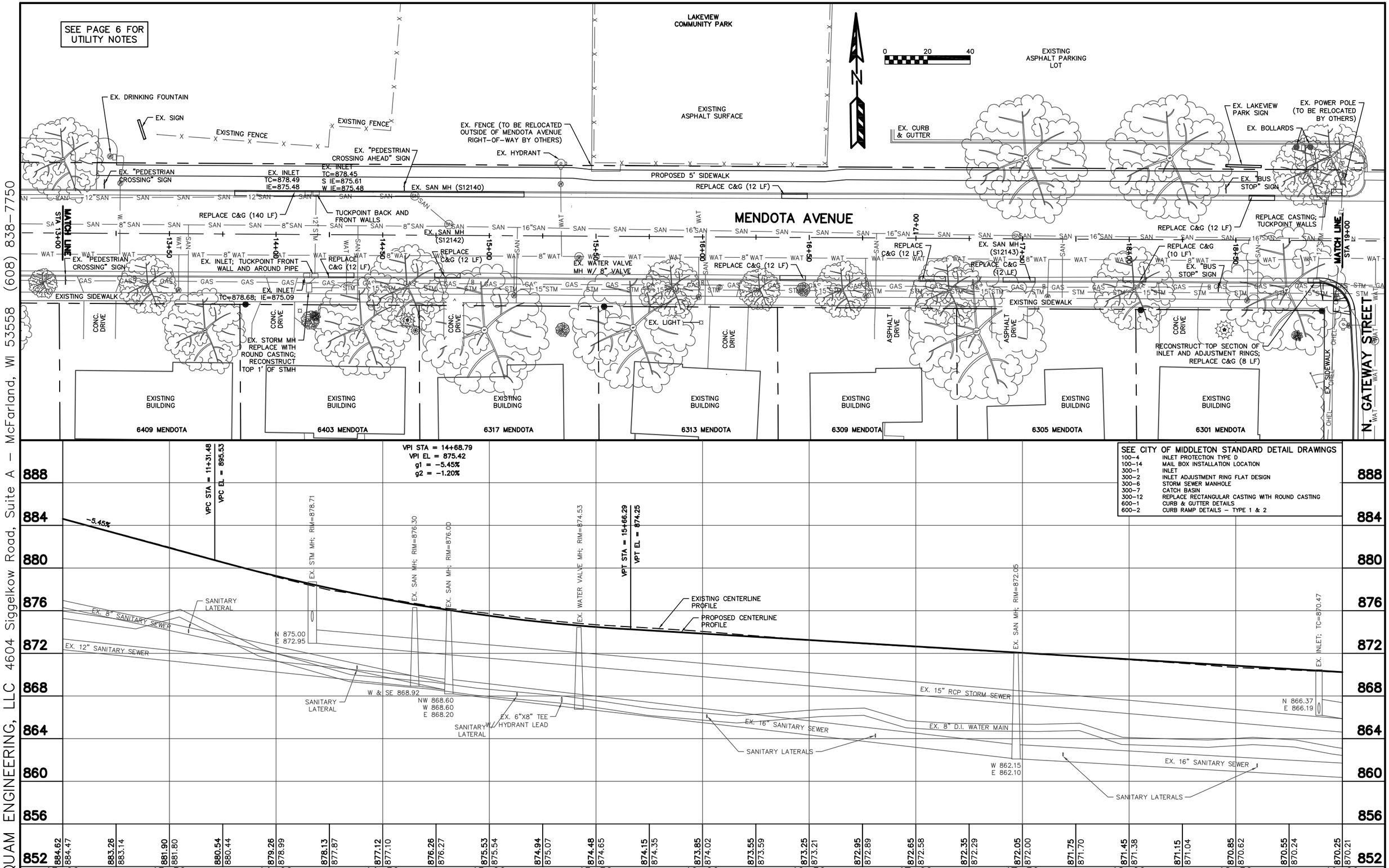

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CITY OF MIDDLETON – MENDOTA AVE./N. GATEWAY ST./CHARING CROSS: RECONSTRUCTION, PROJ #16-105 – MENDOTA AVE.

MI-02-10 02/15/2016

SEE PAGE 6 FOR UTILITY NOTES

LAKEVIEW COMMUNITY PARK

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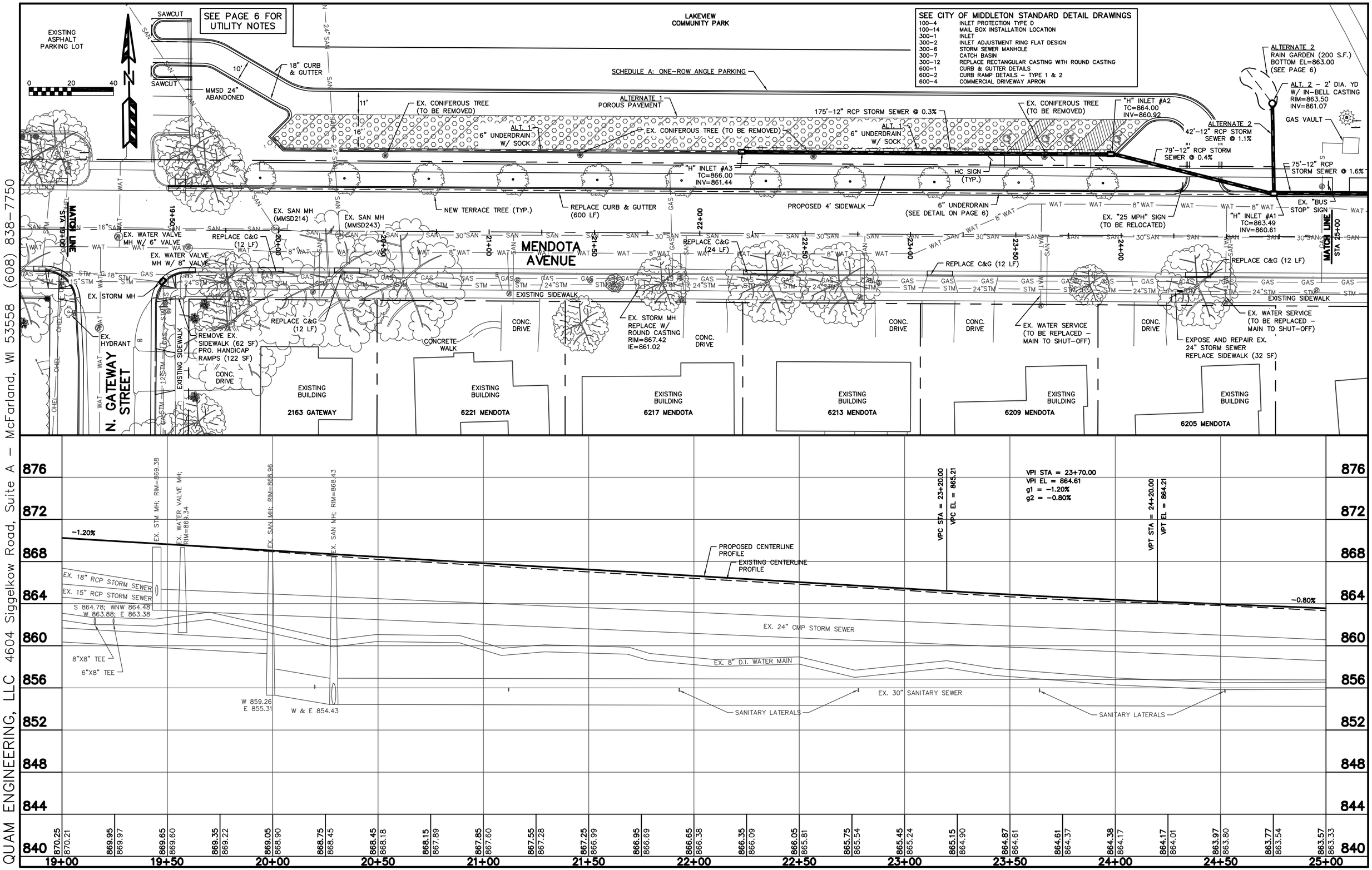

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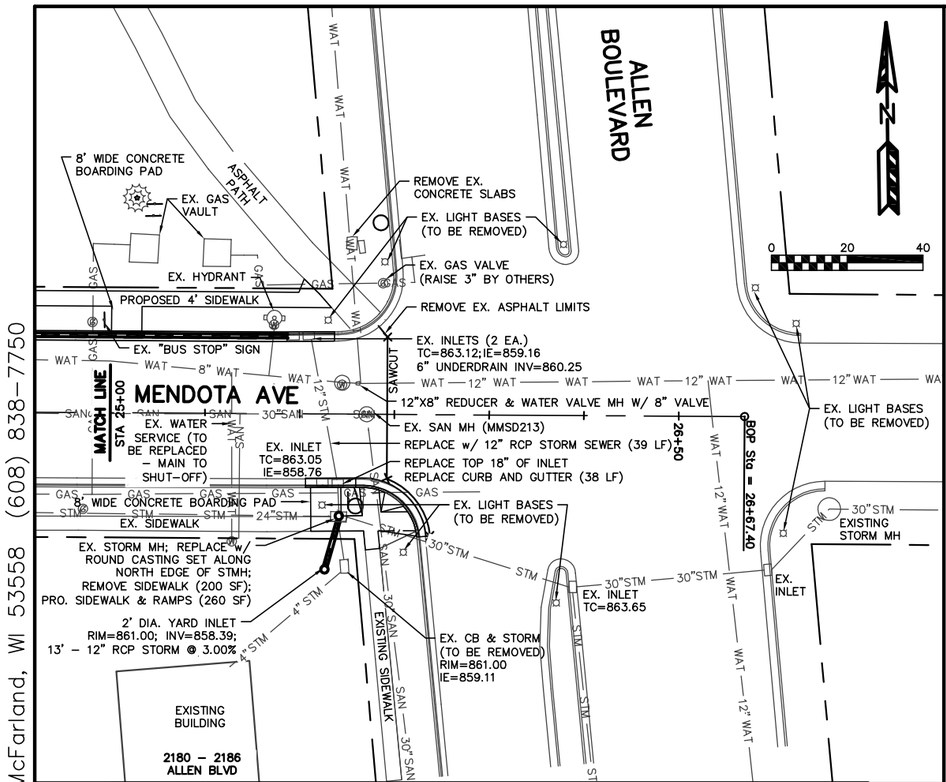

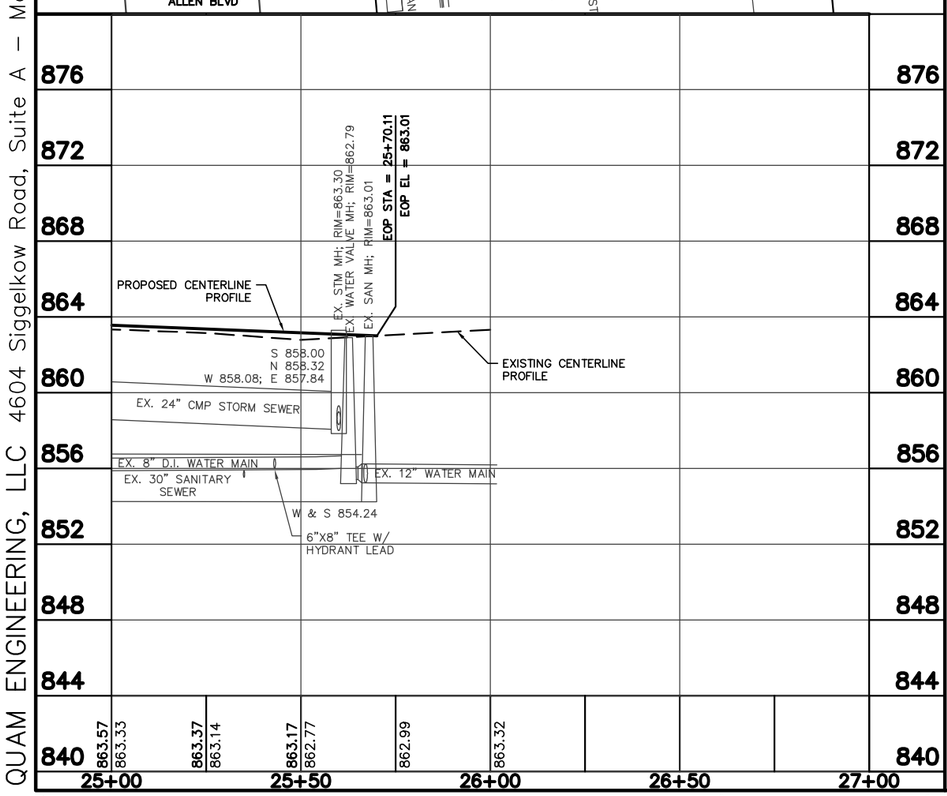

UTILITY NOTES:

CONTRACTORS ARE NOT ALLOWED TO OPERATE CITY OWNED VALVES. CONTRACTOR SHALL CALL CITY OF MIDDLETON AT 827–1070 FOR OPERATION OF THESE VALVES. SAFE SAMPLE RESULTS NEED TO BE PROVIDED TO THE MIDDLETON UTILITY PRIOR TO PRESSURE TESTING THE PRIVATE WATER MAINS.

ALL SANITARY SEWER, WATER MAIN, AND STORM SEWER CONSTRUCTION SHALL BE IN COMPLIANCE WITH THE CITY OF MIDDLETON AND WISCONSIN DEPARTMENT OF COMMERCE STANDARDS.

MAINTAIN AN 8 FOOT MINIMUM HORIZONTAL SEPARATION DISTANCE BETWEEN PUBLIC SANITARY SEWER, WATER MAIN AND STORM SEWER. PROVIDE 18" MINIMUM VERTICAL SEPARATION WHERE SEWER CROSSES OVER WATER MAIN AND PROVIDE 6" MINIMUM VERTICAL SEPARATION WHERE WATER MAIN CROSSES OVER SEWER.

EROSION NOTES:

INLETS SHALL BE PROTECTED WITH W.D.O.T. TYPE "D" INLET PROTECTION.

SEDIMENT REACHING THE PUBLIC ROAD SHALL BE REMOVED BY STREET CLEANING (NOT HYDRAULIC FLUSHING) BEFORE THE END OF EACH WORKDAY.

EROSION CONTROL DEVICES SHALL BE INSTALLED PRIOR TO GRADING OPERATIONS AND SHALL BE PROPERLY MAINTAINED FOR MAXIMUM EFFECTIVENESS UNTIL VEGETATION IS ESTABLISHED. ALL EROSION CONTROL MEASURES AND STRUCTURES SERVING THE SITE MUST BE INSPECTED AT LEAST WEEKLY OR WITHIN 24 HOURS OF A 0.5 INCH RAIN EVENT. ALL MAINTENANCE WILL FOLLOW AN INSPECTION WITHIN 24 HOURS.

CUT AND FILL SLOPES SHALL BE NO GREATER THAN 3:1.

EROSION CONTROL IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ACCEPTANCE OF THIS PROJECT. EROSION CONTROL MEASURES AS SHOWN SHALL BE THE MINIMUM PRECAUTIONS THAT WILL BE ALLOWED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECOGNIZING AND CORRECTING ALL EROSION CONTROL PROBLEMS THAT ARE A RESULT OF CONSTRUCTION ACTIVITIES. ADDITIONAL EROSION CONTROL MEASURES, AS REQUESTED IN WRITING BY THE STATE OR LOCAL INSPECTORS, OR THE DEVELOPER'S ENGINEER, SHALL BE INSTALLED WITHIN 24 HOURS.

TIME SCHEDULE:

MAY 15, 2016	INSTALL INITIAL EROSION CONTROL DEVICES
MAY 16, 2016 – AUGUST 15, 2016	REPAIR STORM SEWER, CONSTRUCT STREET, SIDEWALK AND STORM SEWER IMPROVEMENTS, AND RESTORE DISTURBED AREAS

RESTORATION NOTES:

ALL PERVIOUS DISTURBED AREAS SHALL RECEIVE A MINIMUM OF FOUR (4) INCHES OF TOPSOIL, FERTILIZER, SEED AND MULCH. RESTORATION WILL OCCUR AS SOON AFTER THE DISTURBANCE AS PRACTICAL. SEED MIXTURE 40 SHALL BE USED ON ALL AREAS. MIXTURES SHALL BE IN ACCORDANCE WITH SECTION 630 OF D.O.T. SPECIFICATIONS. AN EQUAL AMOUNT OF ANNUAL RYEGRASS SHALL BE ADDED TO THE MIX.

SEED MIXTURES SHALL BE APPLIED AT THE RATE OF FOUR (4) POUNDS PER 1,000 SQUARE FEET. FERTILIZER SHALL BE APPLIED AT THE RATE OF FOUR (4) POUNDS PER 1,000 SQUARE FEET. MULCH WILL CONSIST OF STRAW OR HAY APPLIED AT A RATE OF TWO (2) TONS PER ACRE.

FERTILIZER SHALL MEET THE MINIMUM REQUIREMENTS THAT FOLLOW: NITROGEN, NOT LESS THAN 16%; PHOSPHORIC ACID, NOT LESS THAN 8%; POTASH, NOT LESS THAN 8%.

OWNER:

CITY OF MIDDLETON
DEPARTMENT OF PUBLIC WORKS
7426 HUBBARD AVENUE
MIDDLETON, 53562

ENGINEER:

QUAM ENGINEERING, LLC
ATTN: RYAN QUAM
4604 SIGGELKOW ROAD, SUITE A
MCFARLAND, WI 53558

SEE CITY OF MIDDLETON STANDARD DETAIL DRAWINGS

100–2	SILT FENCE
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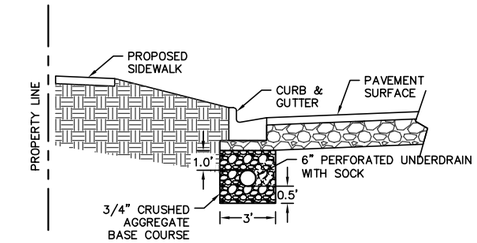
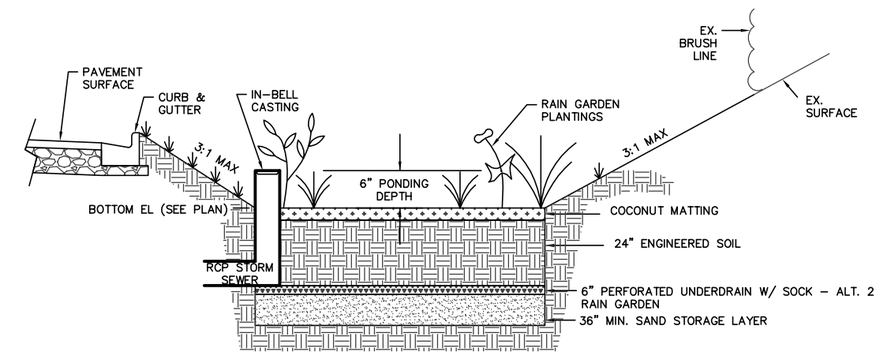
600–2	CURB RAMP DETAILS – TYPE 1 & 2
600–3	RESIDENTIAL DRIVEWAY APRON
600–4	COMMERCIAL DRIVEWAY APRON



UNDERDRAIN DETAIL (NTS)
STA 19+50 TO 25+50



ENGINEERED SOIL SHALL CONSIST OF THE FOLLOWING:
50% SILICA SAND; 50% COMPOST W/ PH 5.5–6.5
COMPOST SHALL MEET WDNR SPECIFICATION S100.
STORAGE/INTERFACE LAYER SHALL CONSIST OF SAND AS FOLLOWS:
SAND: WASHED QUARTZ OR SILICA 0.02 – 0.04 INCHES IN DIA.

RAIN GARDEN PLANTINGS TO BE PLANTED AT ONE PLUG PER SQUARE FOOT. PLUGS TO BE PLANT STOCK NAMED IN THE WET PRAIRIE SHORT STATURE MIX FROM AGRECOL CORPORATION OR APPROVED EQUIVALENT. A MINIMUM OF 10 DIFFERENT PLANT STOCK NAMES TO BE PLANTED.

TO PREVENT COMPACTION OF ENGINEERED SOIL AND SUBSOILS, CONTRACTOR SHALL PROTECT AGAINST MACHINERY ENTERING OR COMPACTING THE BIO–RETENTION AREA.

RAIN GARDEN DEVICE SUBBASE, ENGINEERED SOIL MIX, AND SAND STORAGE LAYER BACKFILL SHALL BE INSPECTED AND APPROVED BY THE ENGINEER FOR AS–BUILT CERTIFICATION PURPOSES.

RAIN GARDEN DETAIL (NTS)

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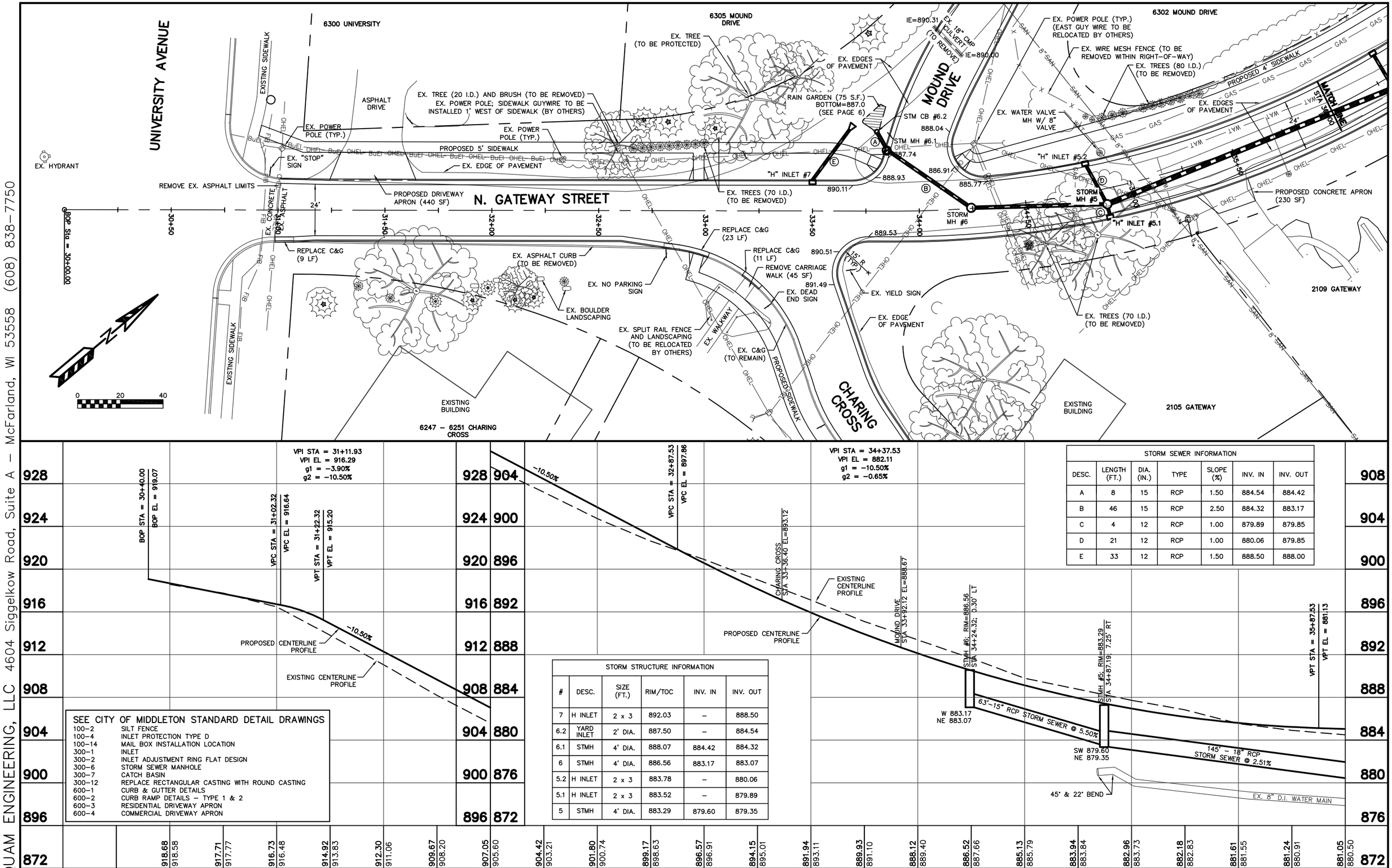

STORM SEWER INFORMATION

DESC.	LENGTH (FT.)	DIA. (IN.)	TYPE	SLOPE (%)	INV. IN	INV. OUT
A	8	15	RCP	1.50	884.54	884.42
B	46	15	RCP	2.50	884.32	883.17
C	4	12	RCP	1.00	879.89	879.85
D	21	12	RCP	1.00	880.06	879.85
E	33	12	RCP	1.50	888.50	888.00

STORM STRUCTURE INFORMATION

#	DESC.	SIZE (FT.)	RIM/TOC	INV. IN	INV. OUT
7	H INLET	2 x 3	892.03	–	888.50
6.2	YARD INLET	2' DIA.	887.50	–	884.54
6.1	STMH	4' DIA.	888.07	884.42	884.32
6	STMH	4' DIA.	886.56	883.17	883.07
5.2	H INLET	2 x 3	883.78	–	880.06
5.1	H INLET	2 x 3	883.52	–	879.89
5	STMH	4' DIA.	883.29	879.60	879.35

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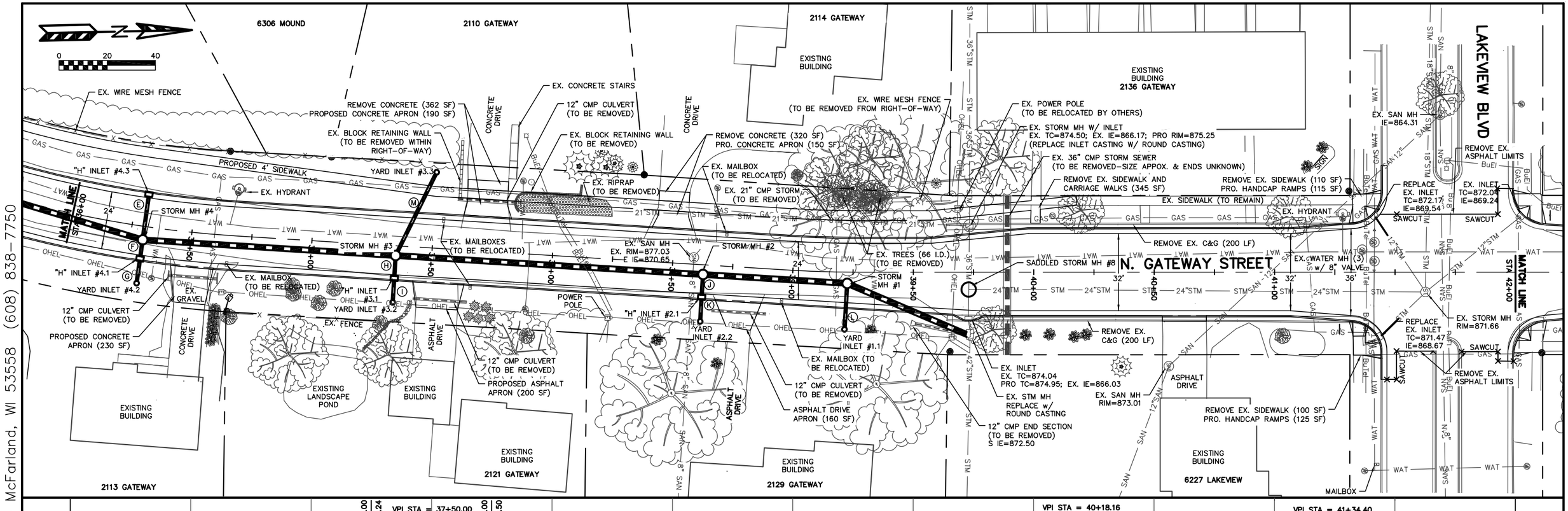

STORM SEWER INFORMATION						
DESC.	LENGTH (FT.)	DIA. (IN.)	TYPE	SLOPE (%)	INV. IN	INV. OUT
E	20	12	RCP	1.00	877.15	876.95
F	4	12	RCP	1.00	875.74	875.70
G	11	12	RCP	1.00	875.95	875.84
H	6	12	RCP	1.00	874.39	874.33
I	11	12	RCP	1.00	874.60	874.49
J	5	12	RCP	1.00	872.38	872.33
K	12	12	RCP	1.00	872.60	872.42
L	18	12	RCP	1.00	871.25	871.07
M	38	12	RCP	4.00	875.85	874.33

STORM STRUCTURE INFORMATION											
#	DESC.	SIZE (FT.)	RIM/TOC	INV. IN	INV. OUT	#	DESC.	SIZE (FT.)	RIM/TOC	INV. IN	INV. OUT
4.3	H INLET	2 x 3	881.06	–	877.15	8	STMH	6 DIA.	874.45	866.07	866.07
4.2	YARD INLET	2 DIA.	878.20	–	875.95	3	STMH	4 DIA.	879.95	873.93	873.83
4.1	H INLET	2 x 3	880.88	875.84	875.74	2.2	YARD INLET	2 DIA.	874.85	–	872.60
4	STMH	4 DIA.	880.70	875.70	875.20; 873.20 SUMP	2.1	H INLET	2 x 3	877.20	872.48	872.38
3.3	YARD INLET	2 DIA.	879.80	–	875.85	2	STMH	4 DIA.	877.28	871.43	871.33
3.2	YARD INLET	2 DIA.	876.85	–	874.60	1.1	YARD INLET	2 DIA.	873.50	–	871.25
3.1	H INLET	2 x 3	879.89	874.49	874.39	1	STMH	4 DIA.	875.87	870.17	870.07; 868.07 SUMP

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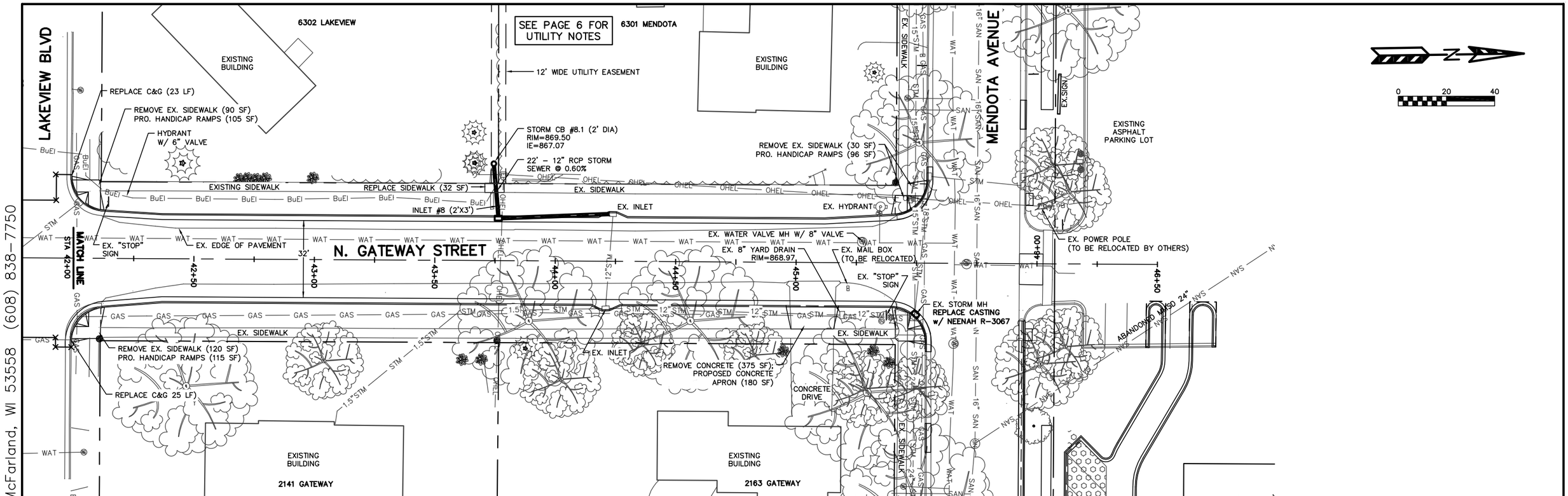

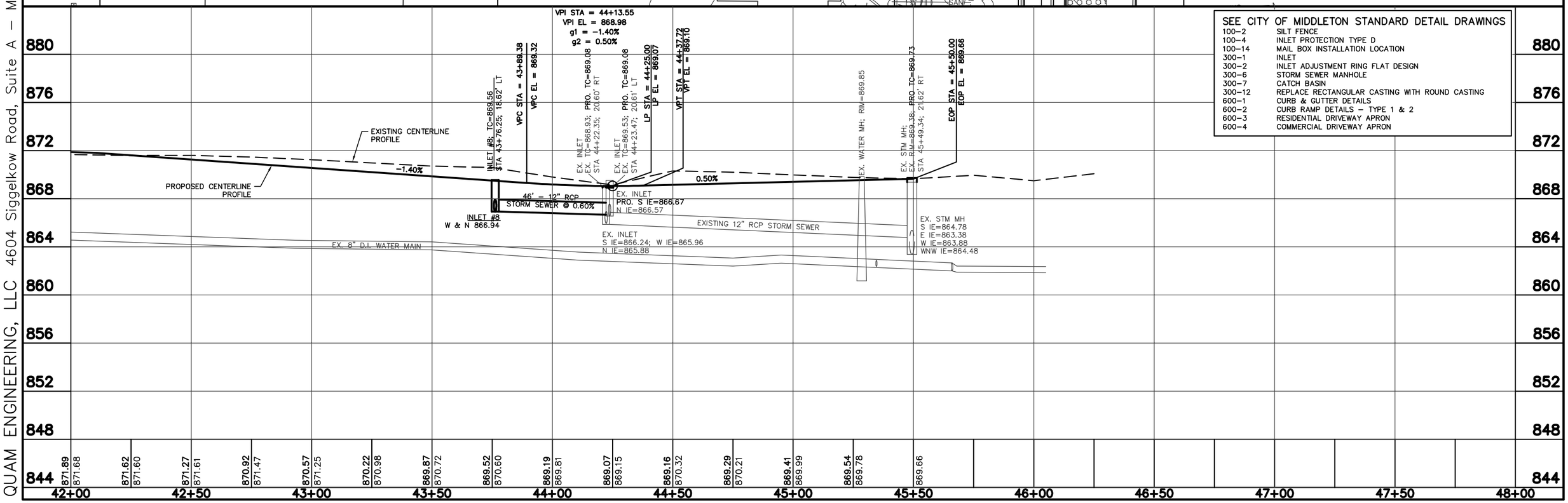

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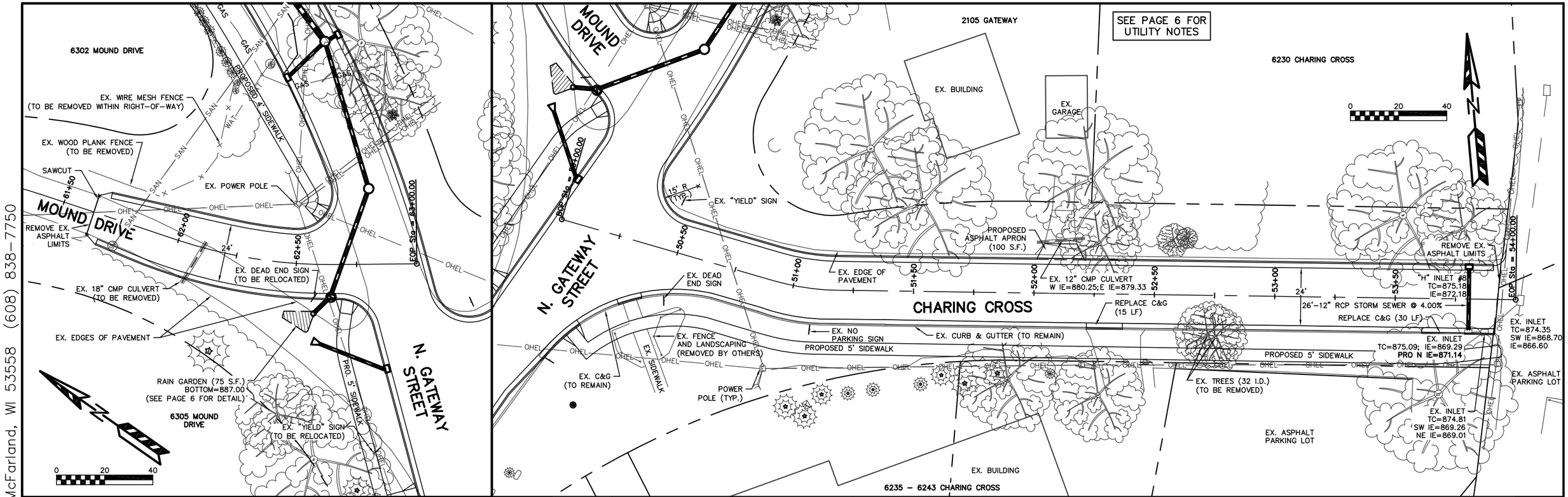

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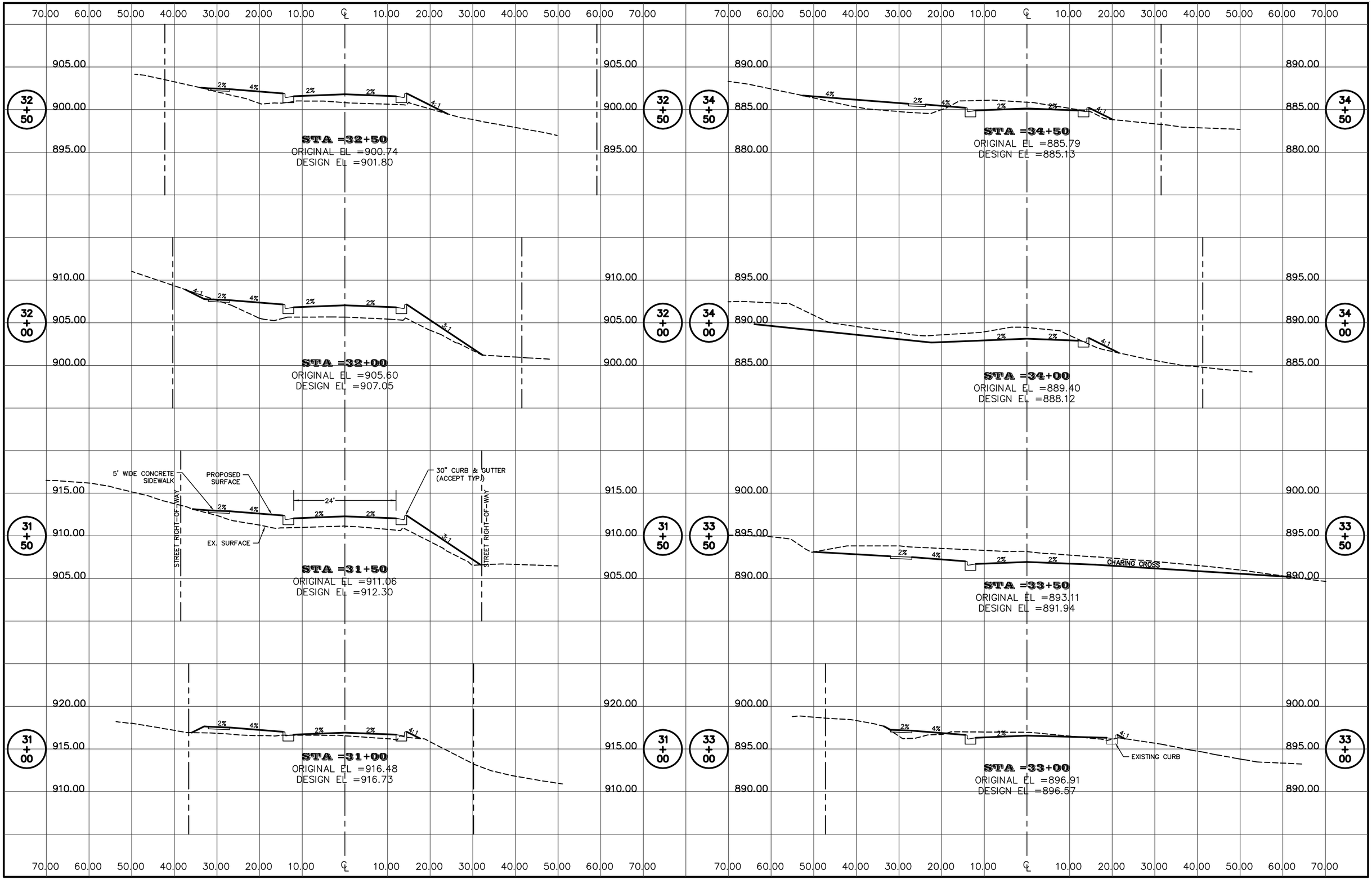

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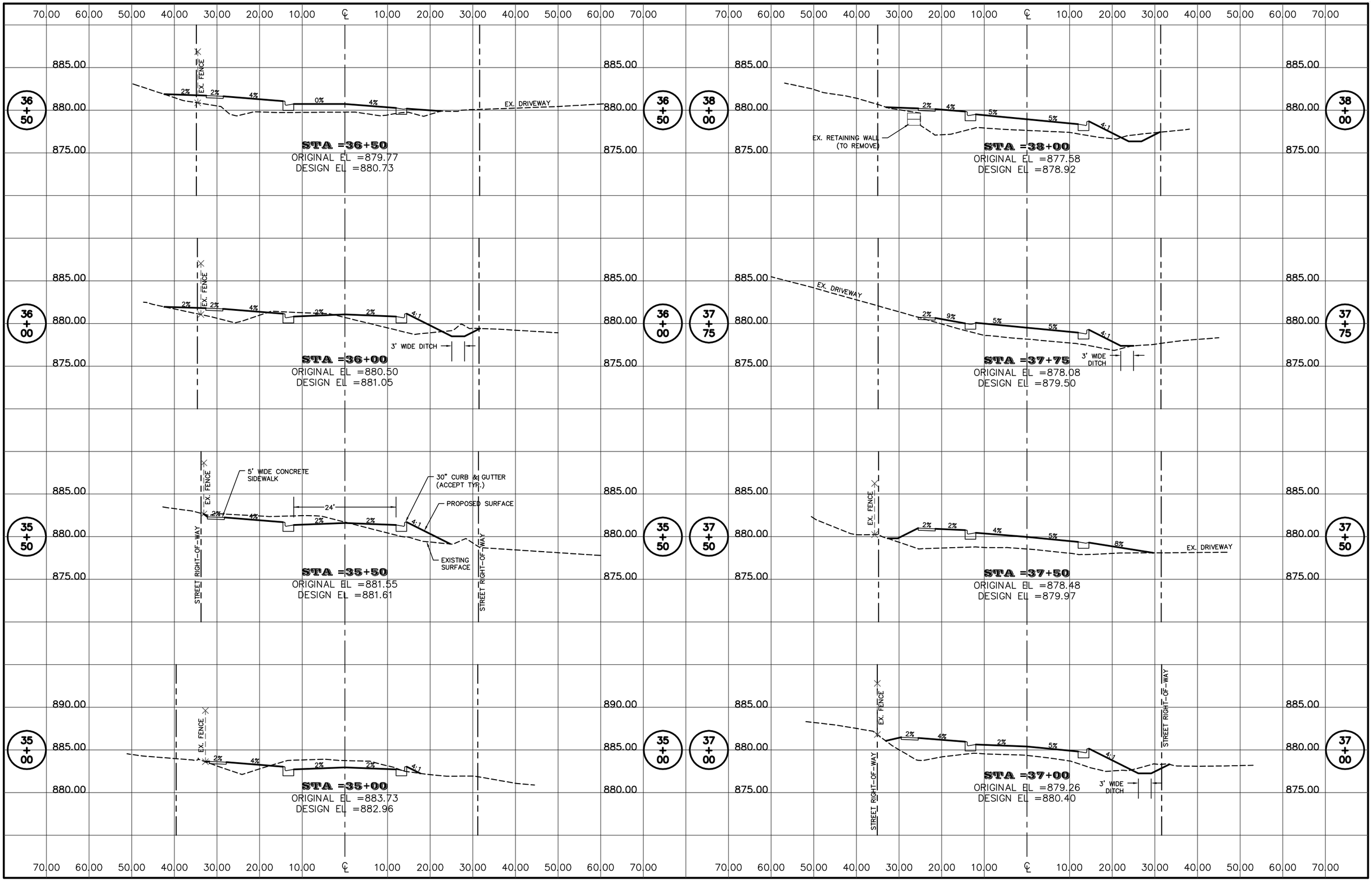

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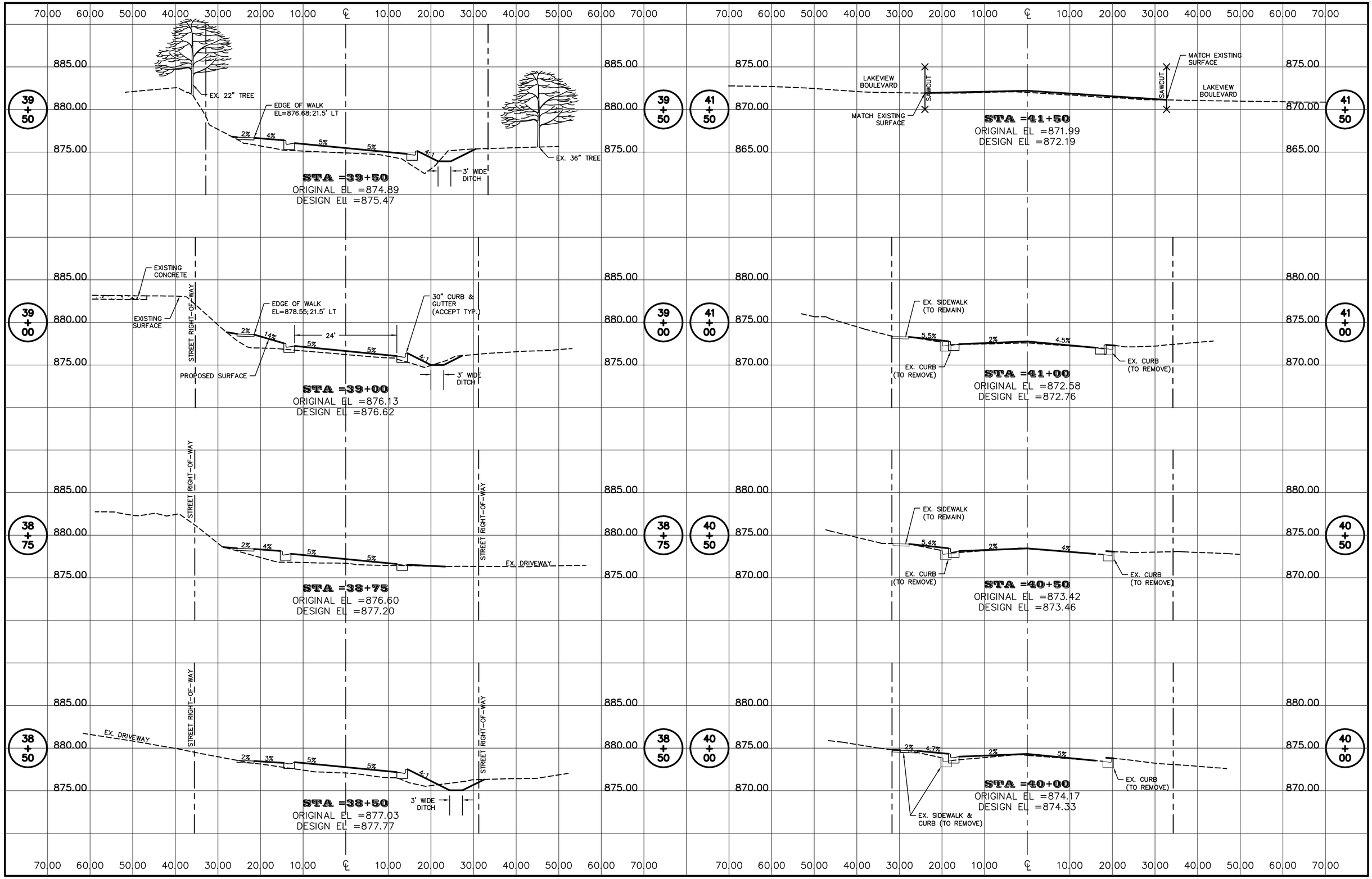

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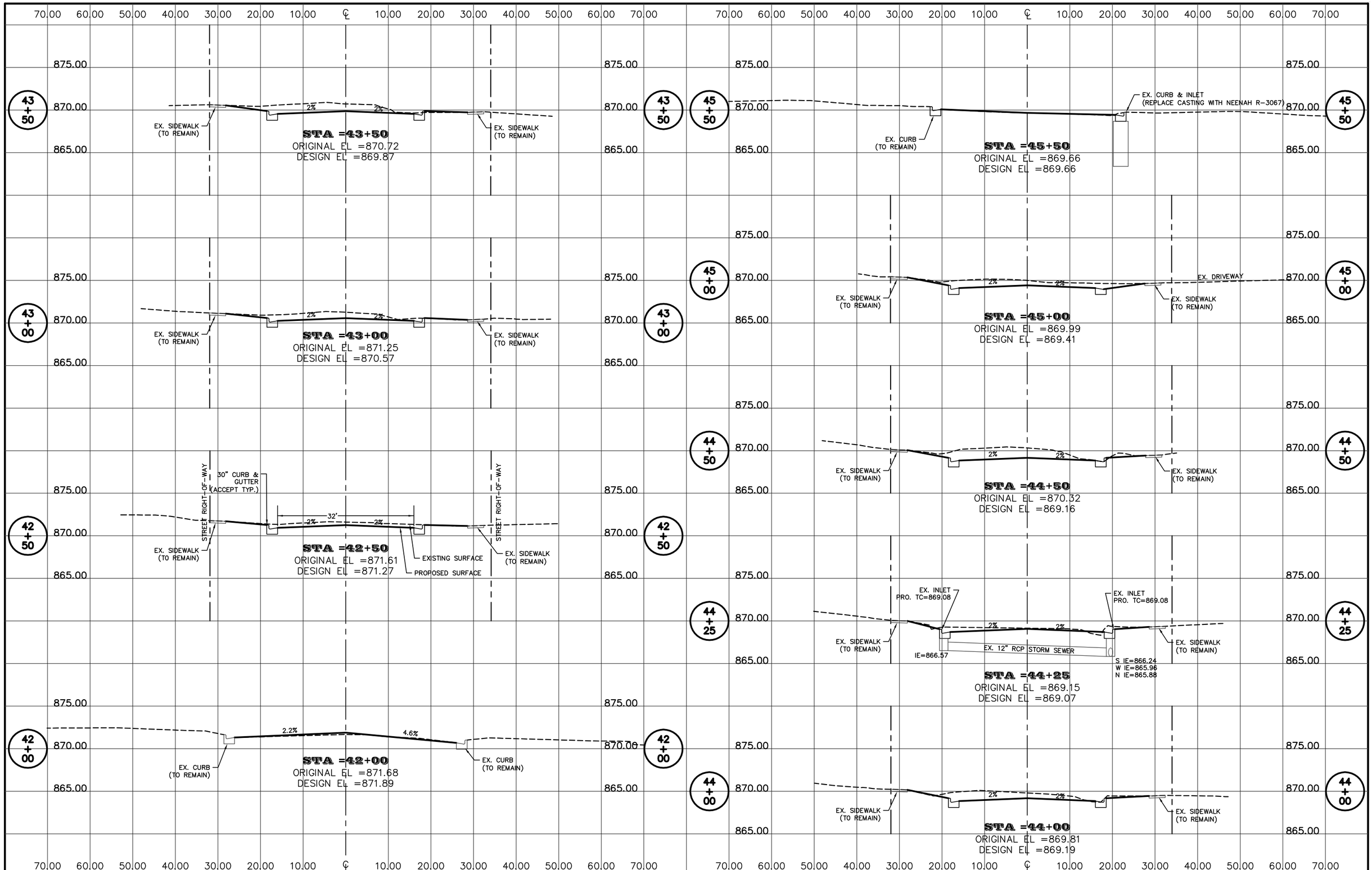

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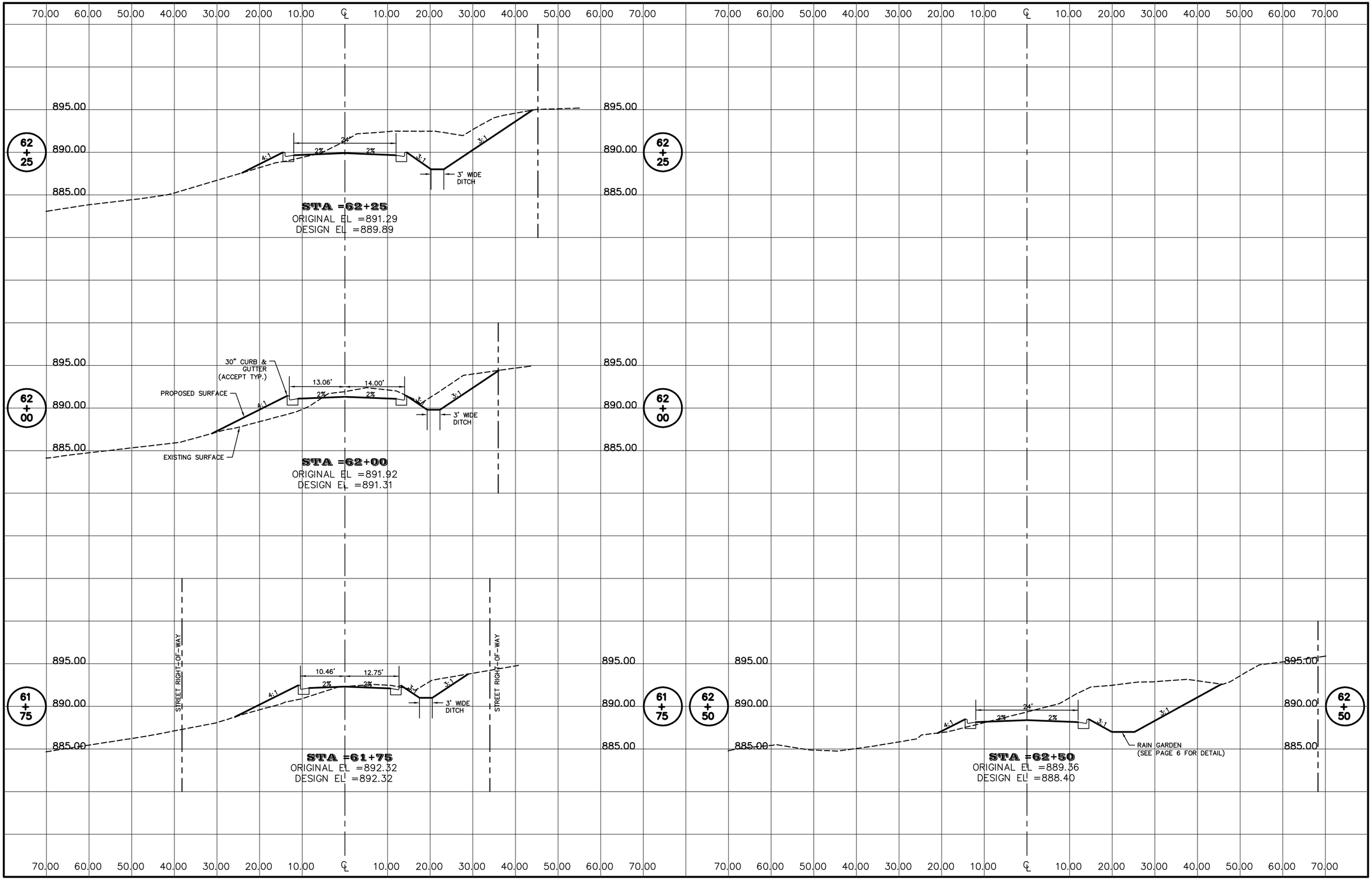
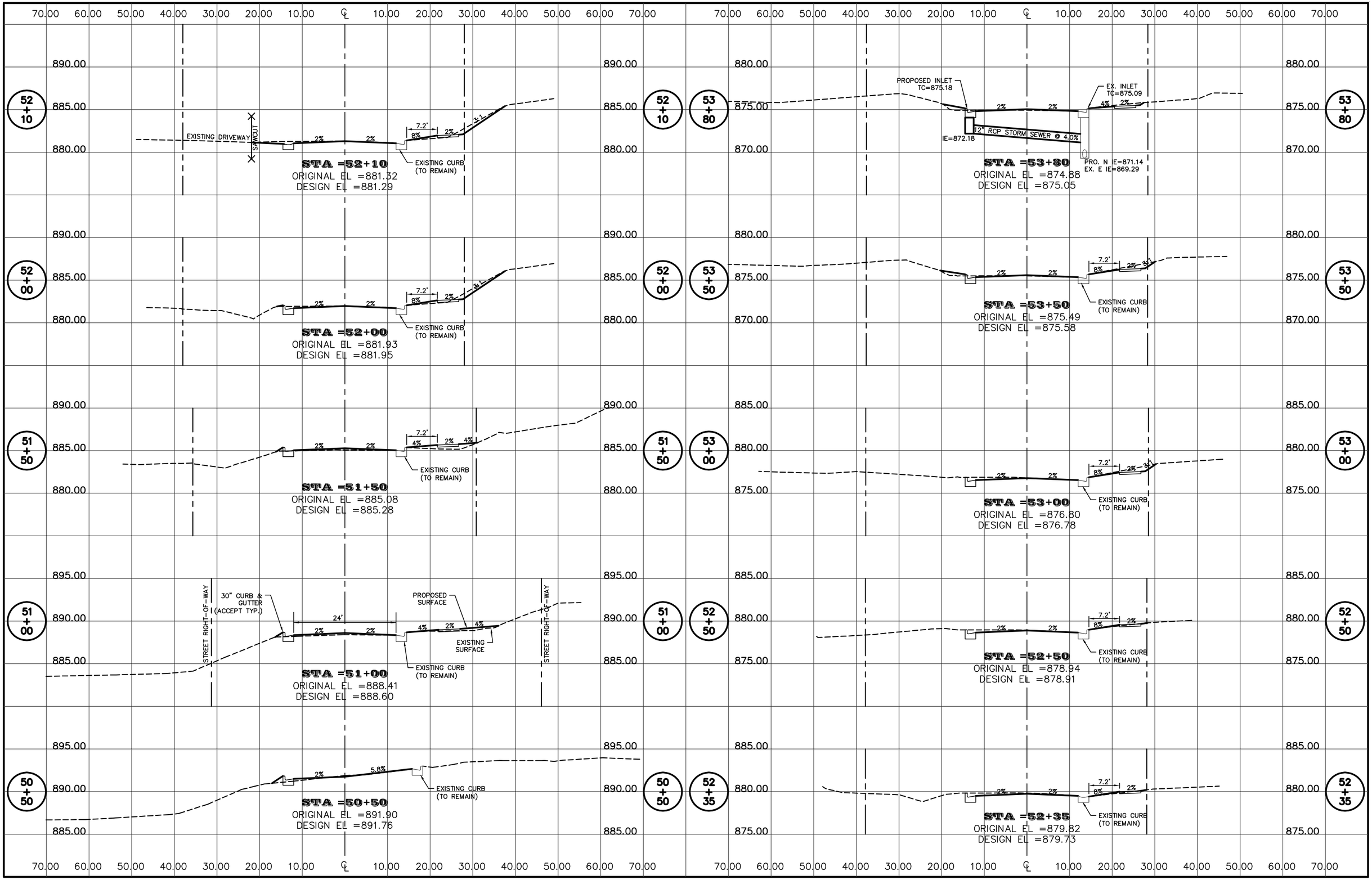
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