

GENERAL NOTES:

1. ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO AND PART OF THE CONSTRUCTION OF THIS PROJECT.
2. THE BASIS OF BEARING IS GRID NORTH, MISSOURI COORDINATE SYSTEM 1983, EAST ZONE.VERTICAL DATUM IS NAVD88.
3. ALL CONSTRUCTION OPERATIONS AND WORK ZONE TRAFFIC CONTROL WITHIN THE RIGHT OF WAY WILL FOLLOW MODOT OR M.U.T.C.D. STANDARDS, WHICHEVER IS MORE STRINGENT.
4. UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEY AND RECORDS. THE CITY DOES NOT WARRANT THE LOCATIONS OF THESE FACILITIES AS PRECISE. IT IS POSSIBLE THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN OR SHOWN. IT IS THE CONTRACTOR’S RESPONSIBILITY TO DETERMINE THE EXISTENCE AND PRECISE LOCATION OF ALL FACILITIES AND TO AVOID DAMAGE. SEE THE JOB SPECIAL PROVISIONS FOR A LIST OF UTILITY COMPANIES KNOWN TO BE ON OR WITHIN THE VICINITY OF THE PROJECT LIMITS.
5. CONTRACTOR SHALL REFERENCE AND FOLLOW THE MODOT ADA CHECKLIST WHEN LAYING OUT AND CONSTRUCTING CURB RAMPS, LANDINGS, SIDEWALK, PAVED APPROACH SIDEWALK CONNECTIONS, PEDESTRIAN SIGNALS, AND ANY OTHER PEDESTRIAN ITEMS ON THIS PROJECT.
6. THERE SHALL BE A MINIMUM OF 4’ OF HORIZONTAL SIDEWALK CLEAR SPACE AROUND FEATURES SUCH AS EXISTING POWER POLES, NEW SIGNAL MAST ARMS, NEW SIGNAL 8’ TALL POSTS, AND ANY OTHER FEATURES THAT PROTRUDE ABOVE THE GROUND.
7. DETECTABLE WARNING PANELS SHALL BE RED PREFORMED UNITS CAST INTO THE RAMP PER THE MANUFACTURER’S RECOMMENDATIONS. PRECAST CONCRETE UNITS, SURFACE APPLIED MATERIALS, OR STAMPED CONCRETE WILL NOT BE ALLOWED.
8. THE GENERAL REQUIREMENTS, PROVISIONS AND TECHNICAL SPECIFICATIONS GOVERNING THE COMPLETION OF THE WORK CONTEMPLATED SHALL BE THE CURRENT VERSION OF THE “MISSOURI STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION”, TOGETHER WITH THE GENERAL AND JOB SPECIAL PROVISIONS AND OTHER STATE AND FEDERAL REQUIREMENTS CONTAINED IN THE CONTRACT DOCUMENTS.

RESTORATION NOTES:

1. CONTRACTOR TO SOD ALL GRASS AREAS DISTURBED BY THE CONSTRUCTION UNLESS OTHERWISE SPECIFIED. SEE PLANS AND SPECIFICATION FOR DETAILS. AREA OF DISTURBANCE SHALL BE MINIMIZED TO REDUCE SODDING.
2. CONTRACTOR SHALL REPLACE DAMAGE TO CITY OR PRIVATE PROPERTY WHERE NECESSARY TO MATCH PRECONSTRUCTION CONDITIONS.

EROSION CONTROL NOTES:

1. THE CONTRACTOR SHALL ASSUME COMPLETE RESPONSIBILITY FOR CONTROLLING ALL SILTATION AND EROSION OF THE PROJECT AREA AND SHALL USE WHATEVER MEANS NECESSARY TO CONTROL EROSION AND SILTATION INCLUDING, BUT NOT LIMITED TO, STAKED STRAW BALES AND/OR SILTATION FABRIC FENCES. CONTROL SHALL COMMENCE WITH THE CLEARING OPERATIONS AND BE MAINTAINED THROUGHOUT THE PROJECT UNTIL ACCEPTANCE OF THE WORK BY CITY OF KIRKWOOD AND AS NEEDED BY MODOT. THE CONTRACTOR’S RESPONSIBILITIES INCLUDE ALL IMPLEMENTATION AND MAINTENANCE AS REQUIRED TO PREVENT EROSION AND THE DEPOSITING OF SILT. THE CITY OF KIRKWOOD AND AS REQUIRED BY MODOT MAY AT THEIR OPTION DIRECT THE CONTRACTOR IN HIS METHODS AS DEEMED FIT TO PROTECT PROPERTY AND IMPROVEMENTS. ANY DEPOSITING OF SILT OR MUD ON NEW OR EXISTING PAVEMENT SHALL BE REMOVED IMMEDIATELY. ANY DEPOSITING OF SILTS OR MUD IN NEW OR EXISTING STORM SEWERS AND/OR SWALES SHALL BE REMOVED AFTER EACH RAIN AND AFFECTED AREAS CLEANED TO THE SATISFACTION OF THE CITY OF KIRKWOOD AND AS REQUIRED BY CONTRACTOR."
2. ALL EROSION CONTROL SYSTEMS ARE TO BE INSPECTED AND CORRECTED WEEKLY, ESPECIALLY WITHIN 48 HOURS OF ANY RAIN STORM RESULTING IN ONE-HALF INCH OF RAIN OR MORE. ANY SILT OR DEBRIS LEAVING THE SITE AND AFFECTING PUBLIC RIGHT OF WAY OR STORM WATER DRAINAGE FACILITIES SHALL BE CLEANED UP WITHIN 24 HOURS AFTER THE END OF THE STORM.
3. EROSION CONTROL DEVICES (SILT FENCE, SEDIMENT BASIN, ETC.) SHALL BE IN ACCORDANCE WITH THE MODOT STORMWATER POLLUTION PREVENTION PLAN
4. GRADED AREAS SHALL BE SODDED WITHIN 14 DAYS OF STOPPING LAND DISTURBANCE ACTIVITIES.

PAVEMENT AND DRIVEWAY NOTES:

1. REPLACE PAVEMENT STRIPING WHERE NECESSARY TO MATCH PRECONSTRUCTION CONDITIONS, UNLESS OTHERWISE NOTED ON THE DRAWINGS.
2. ALL PAVEMENT REMOVED OR DAMAGED BY THIS CONSTRUCTION AS REQUIRED OR IN EXCESS OF THAT INDICATED ON THE PLANS SHALL BE REPLACED, "IN KIND." DAMAGED PAVEMENT SHALL BE REPLACED BY CONTRACTOR WITH NO PAY.
3. THE CONTRACTOR SHALL KEEP ALL PAVEMENTS CLEAN AND FREE OF MUD, ROCK AND DEBRIS AT ALL TIMES DURING CONSTRUCTION.
4. CONTRACTOR SHALL NOTIFY PROPERTY OWNERS (PREFERABLY IN PERSON) 48 HOURS IN ADVANCE OF ANY DISRUPTED ACCESS TO THEIR DRIVEWAY.
5. ACCESS TO PRIVATE DRIVEWAYS MAY BE LIMITED BY THE NATURE OF THIS WORK. THE CONTRACTOR SHALL SCHEDULE HIS WORK SUCH THAT AT NO TIME DURING THE LIFE OF THIS CONTRACT WILL ANY DRIVEWAY BE CLOSED FOR MORE THAN TEN (10) CONSECUTIVE CALENDAR DAYS. PLACEMENT OF CONCRETE MUST TAKE PLACE WITHIN THREE (3) DAYS OF PAVEMENT BEING BROKEN. ONE DAY SHALL BE CONSIDERED A PERIOD OF TIME OF EIGHT (8) CONSECUTIVE HOURS TO 24 CONSECUTIVE HOURS.

STRIPING/SIGNAGE NOTES:

1. ALL PERMANENT STRIPING SHALL BE TYPE B EPOXY MARKING PAINT WITH DOUBLE-DROP ON GLASS BEADS.
2. ALL STOP BARS, YIELD BARS, DIRECTIONAL SYMBOLS, WORDING, AND CROSSWALKS SHALL BE TYPE B EPOXY MARKING PAINT WITH DOUBLE-DROP ON GLASS BEADS.
3. ALL SIGNS SHALL BE MOUNTED AT A HEIGHT OF 7 FEET MEASURED FROM THE BOTTOM OF THE SIGN TO THE TOP OF THE CURB, OR TO THE TOP OF THE ROADWAY AT EDGE OF PAVEMENT. ALL SIGNS SHALL BE MOUNTED 1 FOOT FROM THE EDGE OF SIDEWALK.
4. BIKE LANE SYMBOL SHALL BE STANDARD PERFORMED THERMOPLASTIC WITH TYPE P DROP ON GLASS BEADS.

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REV	DATE	BY	DESCRIPTION



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CERTIFICATE/LICENSE NO. 2002011852

WEST ESSEX AVENUE
RECONSTRUCTION

GENERAL NOTES
(SHEET 1 OF 1)

PROJECT/JOB NO. STP-5502(610)
MSD PROJECT NO.
MSD BASE MAP 23M, 23N
DATE PREPARED 03/21/2022
SHEET 2 OF 48

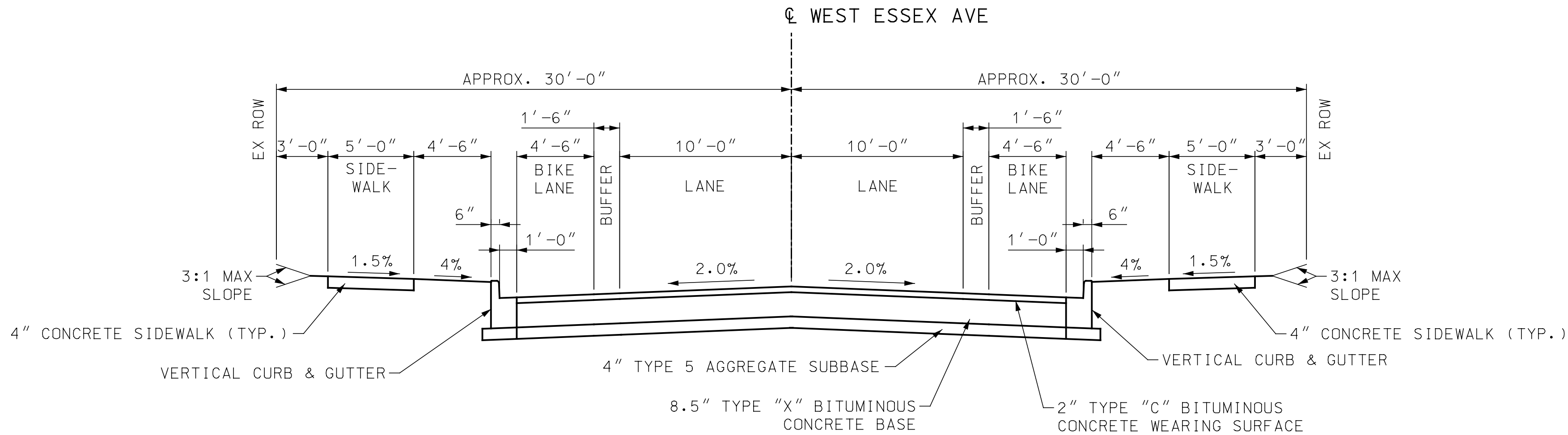
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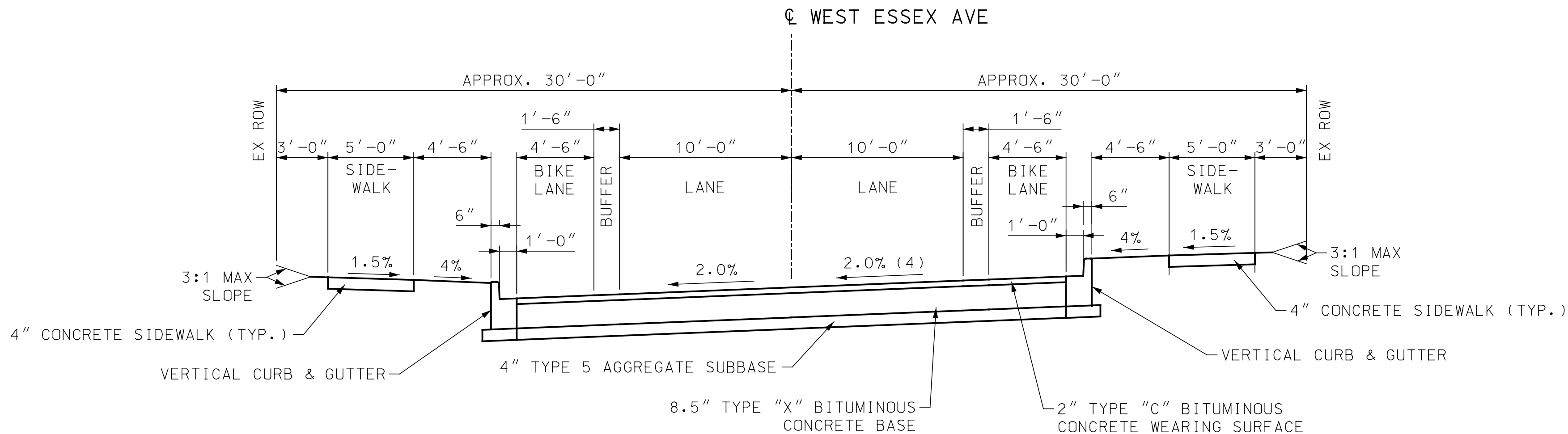
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LOCHMUELLER PROJECT NO. 520-0140



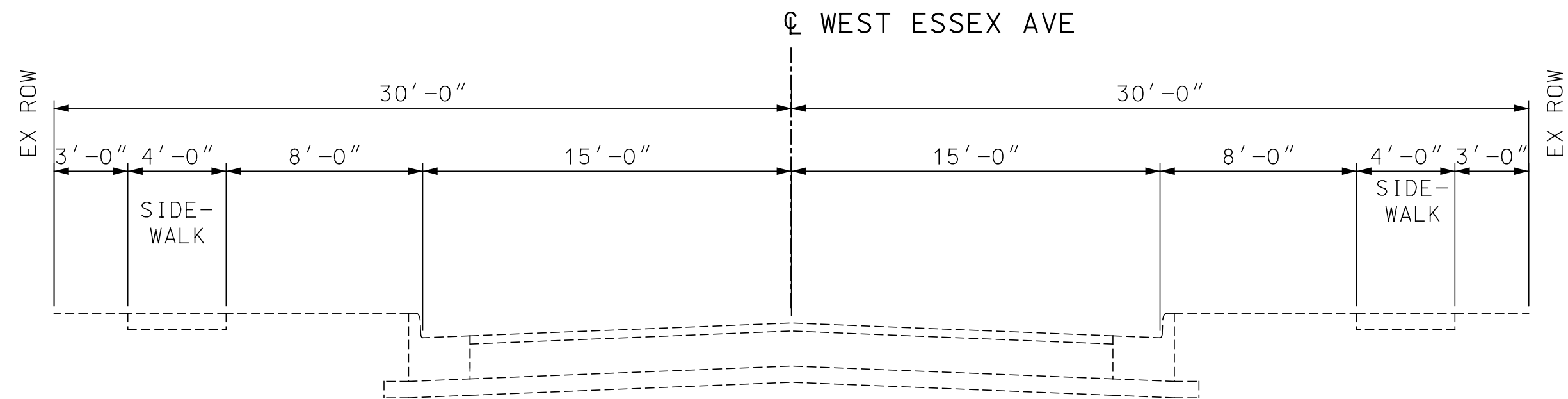
**PROPOSED TYPICAL SECTION
WEST ESSEX AVENUE**

STA 00+05.00 TO STA 1+50.00
STA 5+50.00 TO STA 25+65.00



**PROPOSED TYPICAL SECTION
WEST ESSEX AVENUE**

STA 1+50.00 TO STA 5+50.00



**EXISTING TYPICAL SECTION
WEST ESSEX AVENUE**

0+05.00 TO 25+65.00

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3. SEE PLAN FOR SIDEWALK OFFSET DISTANCE.
4. VARIES FROM -2.0% AT STA 1+50.00 TO 2.0% AT STA 2+00.00, 2.0% FROM STA 2+00.00 TO STA 5+00.00, VARIES FROM 2.0% AT STA 5+00.00 TO -2.0% AT STA 5+50.00.

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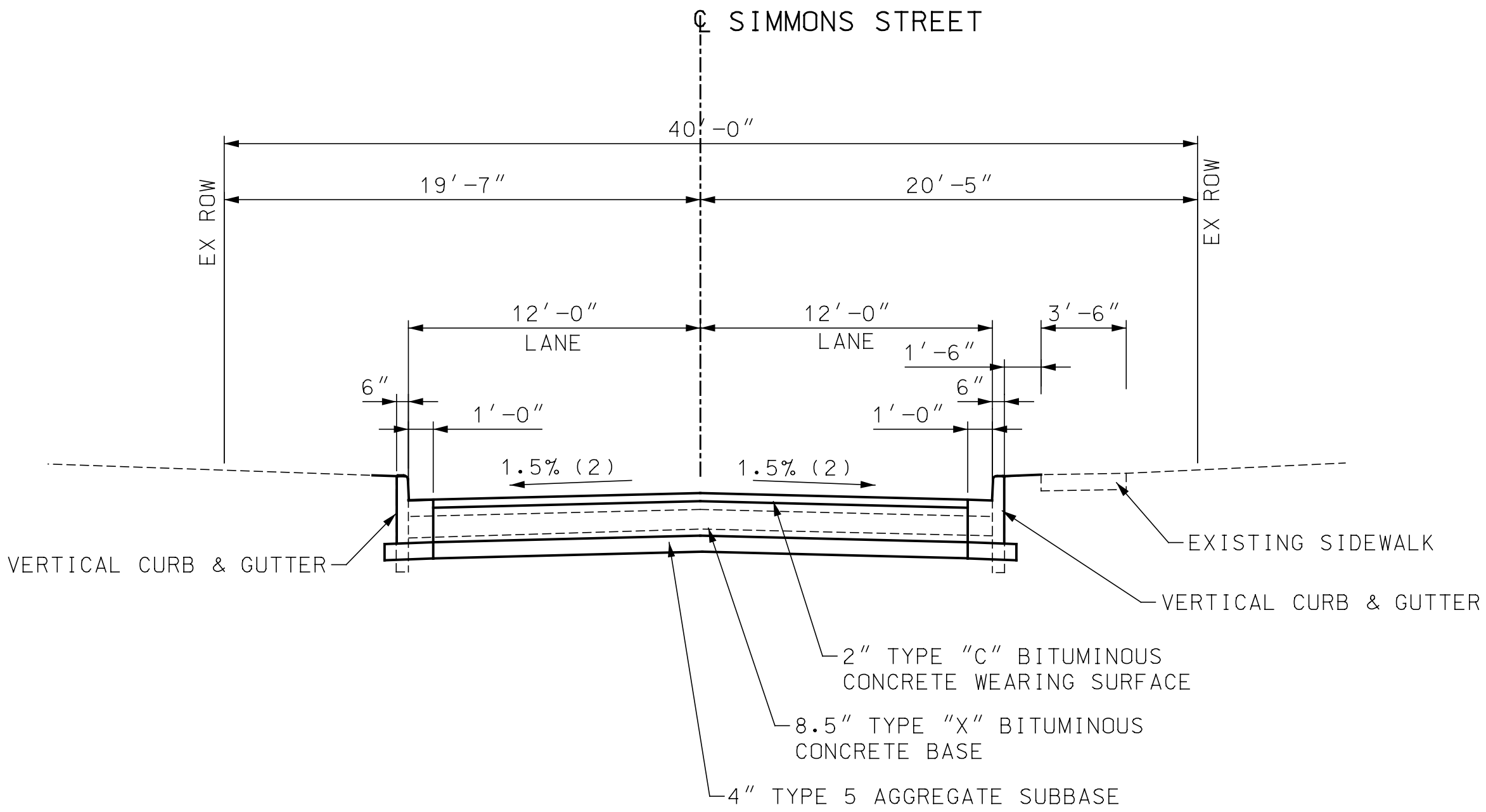
**WEST ESSEX AVENUE
RECONSTRUCTION**

**TYPICAL SECTIONS
SHEET 1 OF 5**

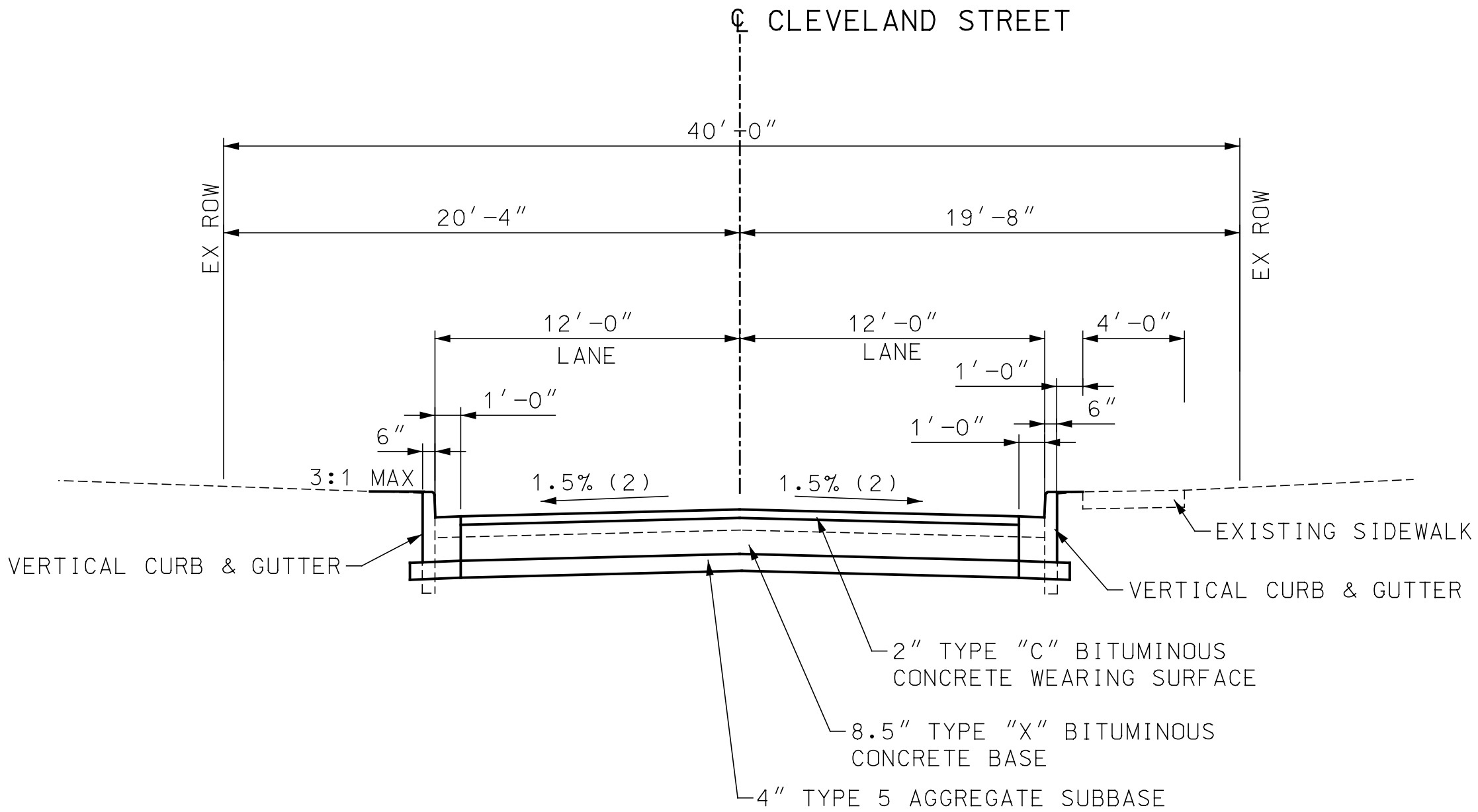
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MSD PROJECT NO.
MSD BASE MAP 23M, 23N
DATE PREPARED 03/21/2022
SHEET 3 OF 48

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SIMMONS STREET
STA 40+17.00 TO STA 40+60.00



CLEVELAND STREET
STA 50+17.00 TO STA 50+90.00

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RECONSTRUCTION

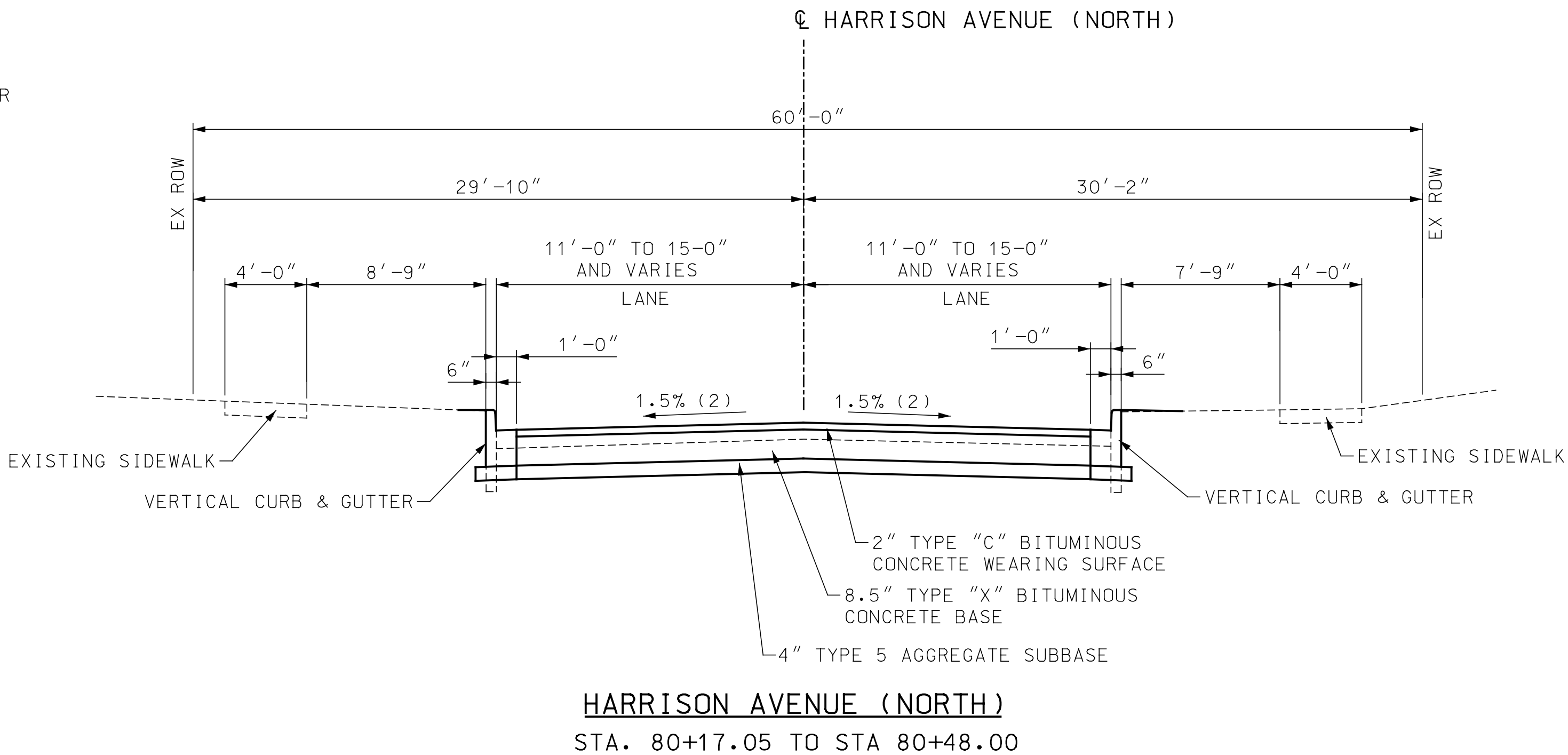
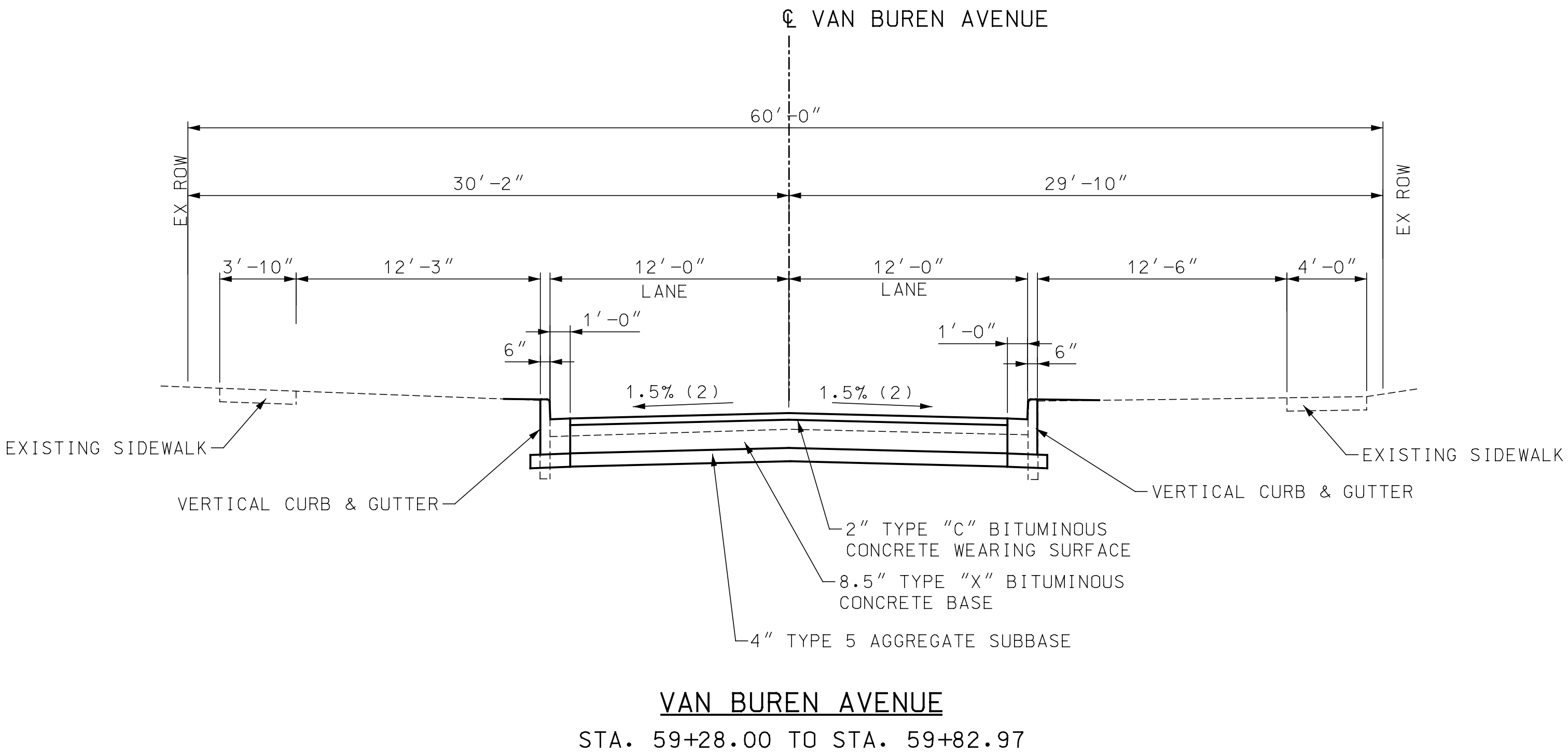
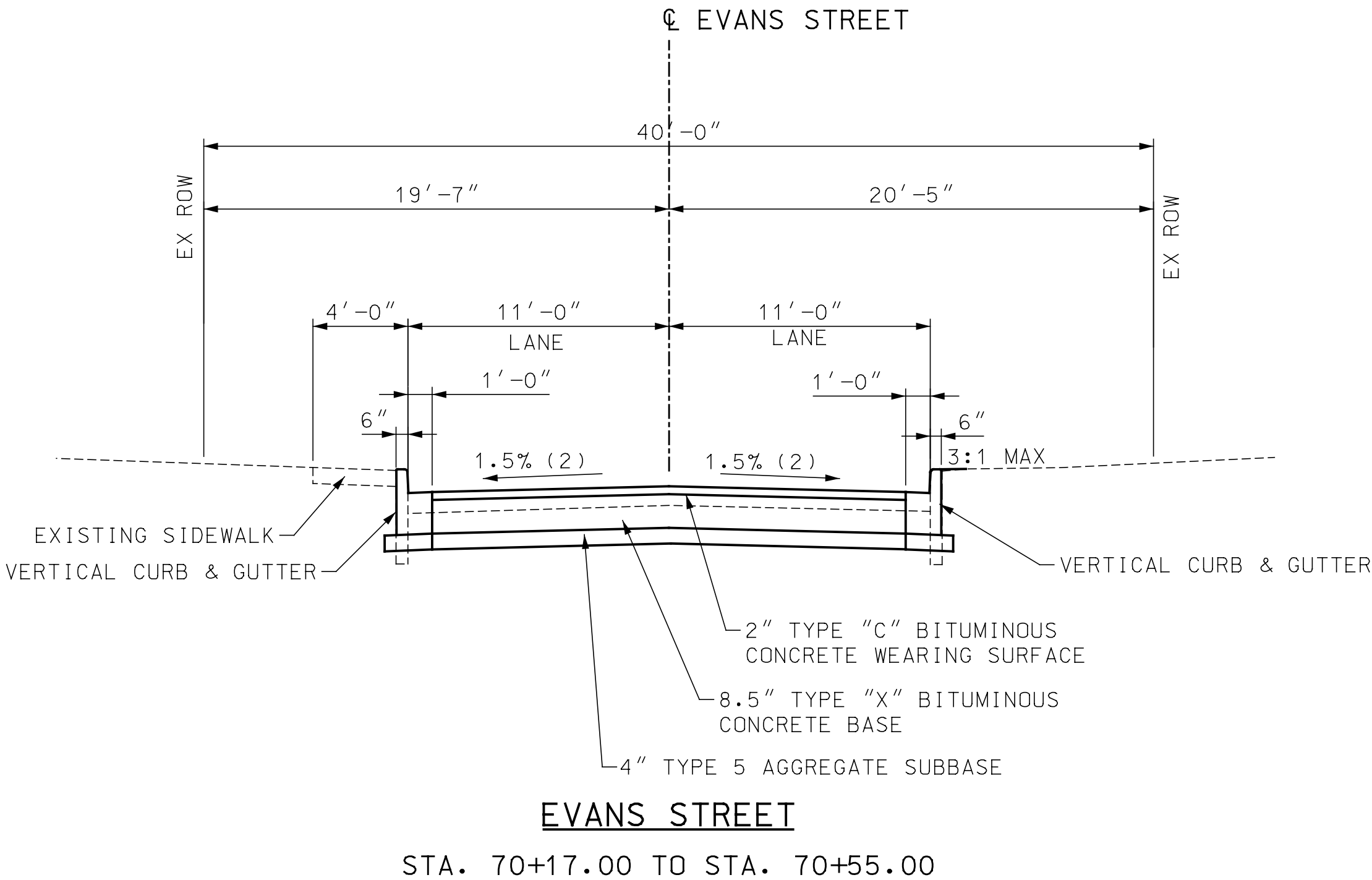
TYPICAL SECTIONS
SHEET 2 OF 5

PROJECT/JOB NO.
STP-5502(610)
MSD PROJECT NO.

MSD BASE MAP
23M, 23N
DATE PREPARED
03/21/2022
SHEET
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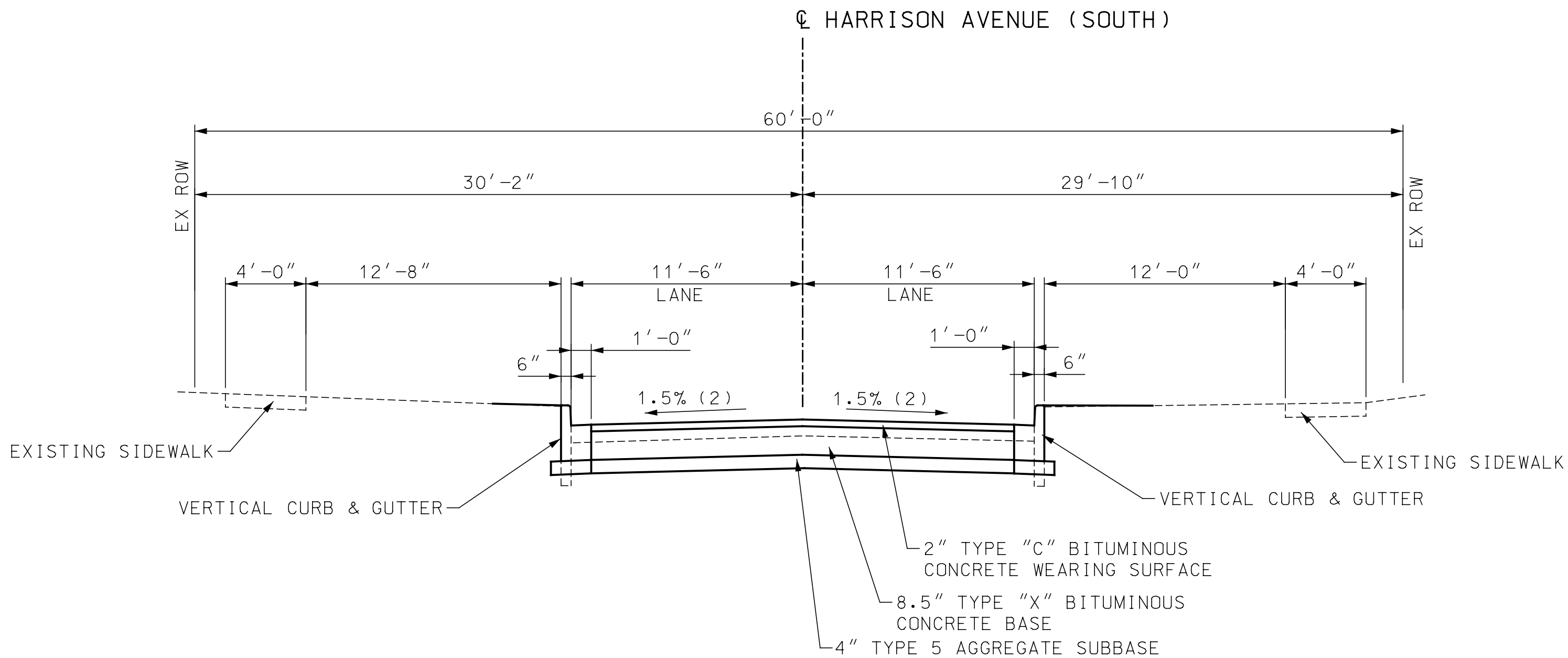
**TYPICAL SECTIONS
SHEET 3 OF 5**

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MSD PROJECT NO.

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23M, 23N
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03/21/2022
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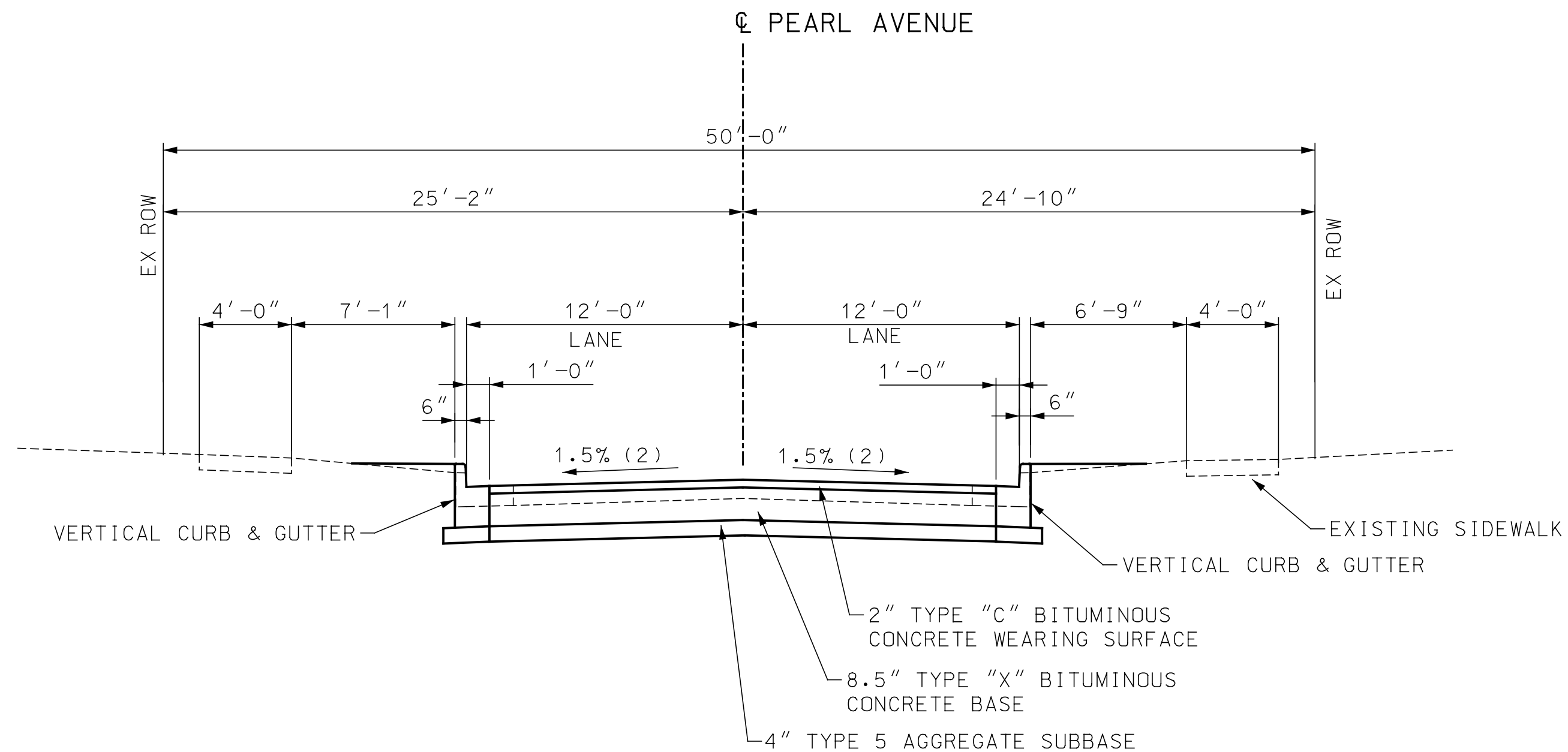
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HARRISON AVENUE (SOUTH)

STA. 89+58.00 TO STA. 89+83.00



PEARL AVENUE

STA. 100+16.91 TO STA. 100+55.00

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WEST ESSEX AVENUE
RECONSTRUCTION

TYPICAL SECTIONS
SHEET 4 OF 5

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MSD BASE MAP
23M, 23N

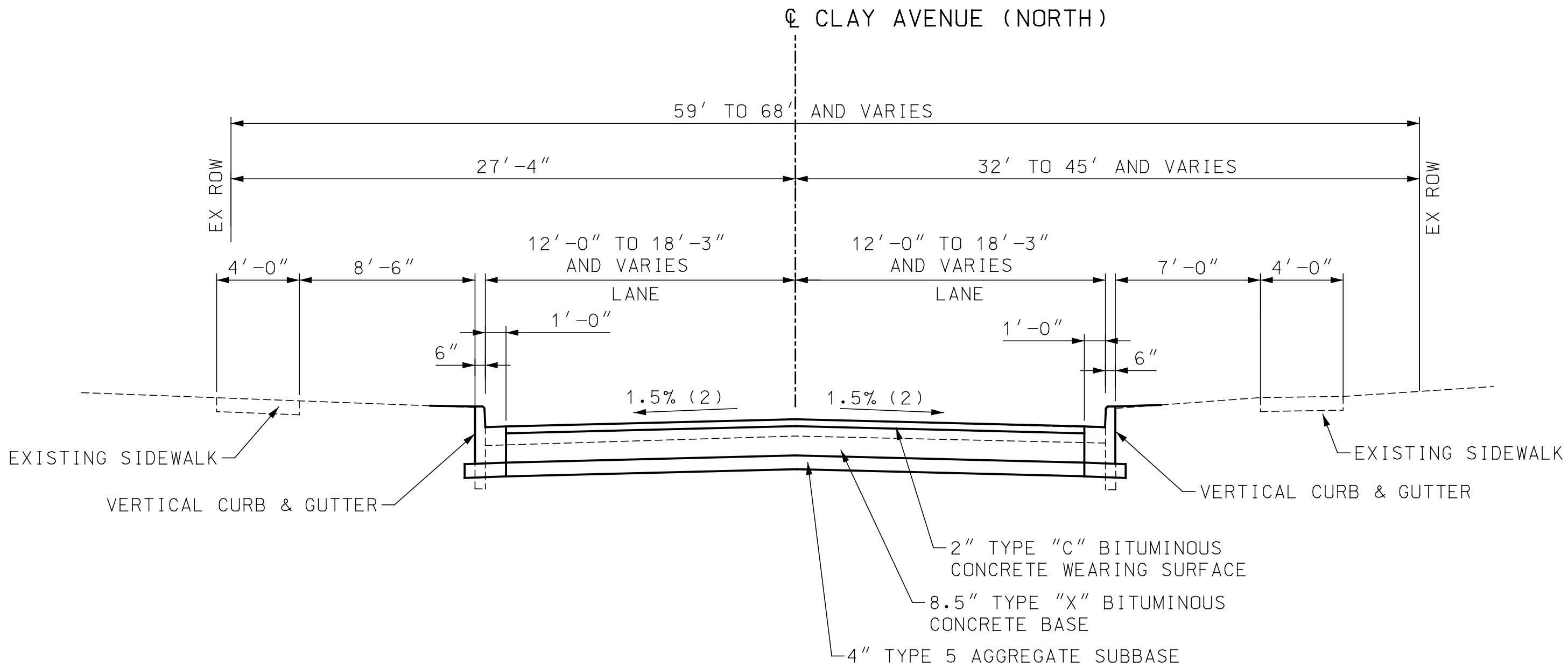
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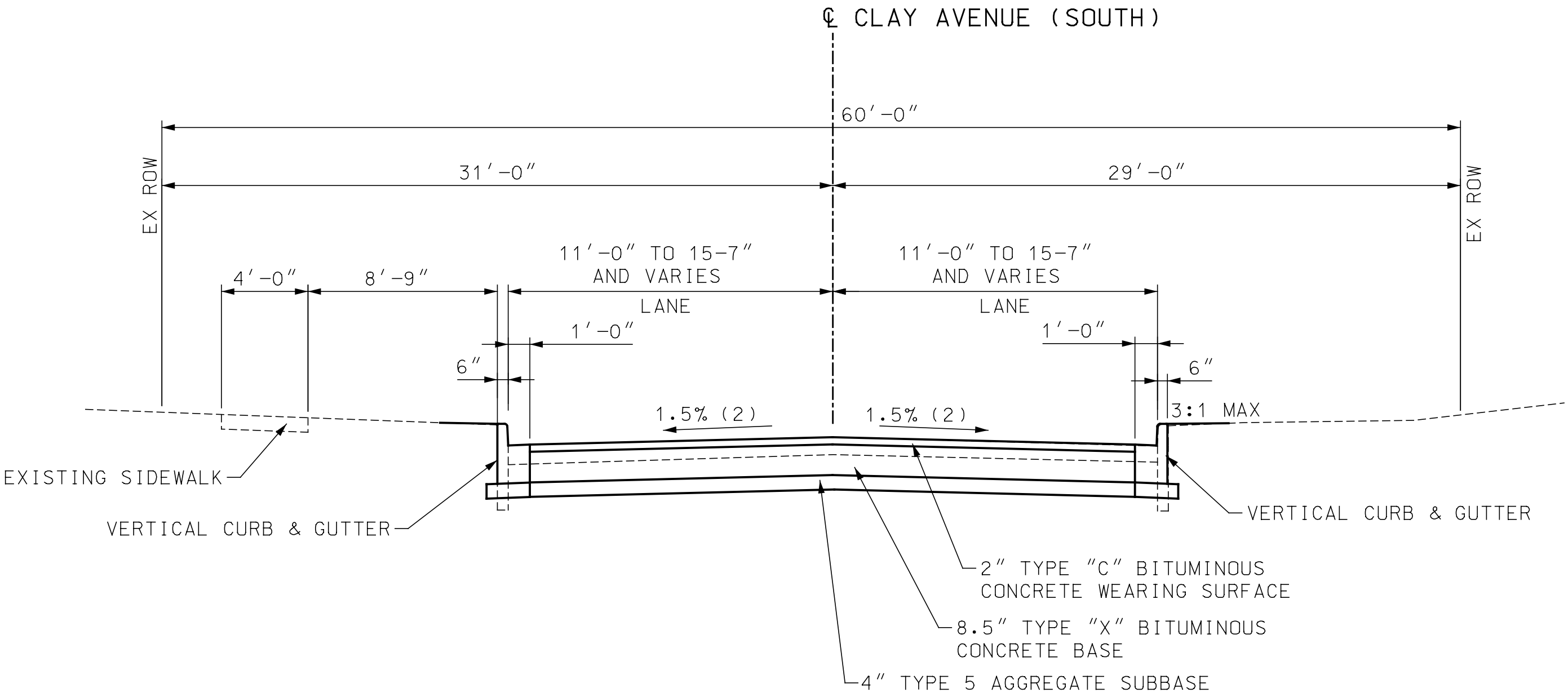
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CLAY AVENUE (NORTH)
STA. 110+17.19 TO STA. 110+65.23



CLAY AVENUE (SOUTH)
STA. 119+50.00 TO STA 119+83.05

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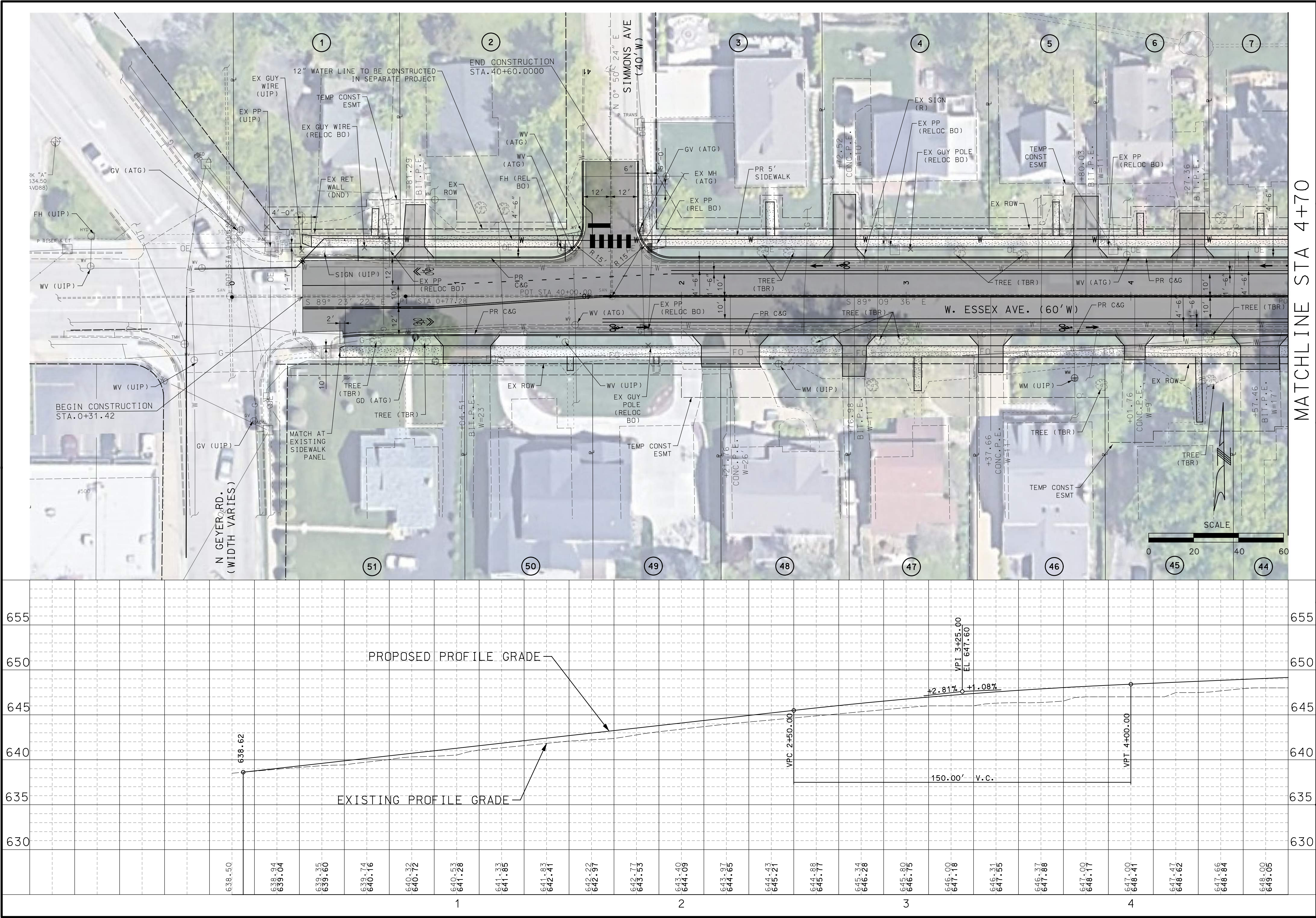
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WEST ESSEX AVENUE
RECONSTRUCTION
TYPICAL SECTIONS
SHEET 5 OF 5

PROJECT/JOB NO.
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WEST ESSEX AVENUE
RECONSTRUCTION

PLAN AND PROFILE
SHEET 1 OF 5

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STP-5502(610)

MSD PROJECT NO.

MSD BASE MAP
23M.23N

DATE PREPARED
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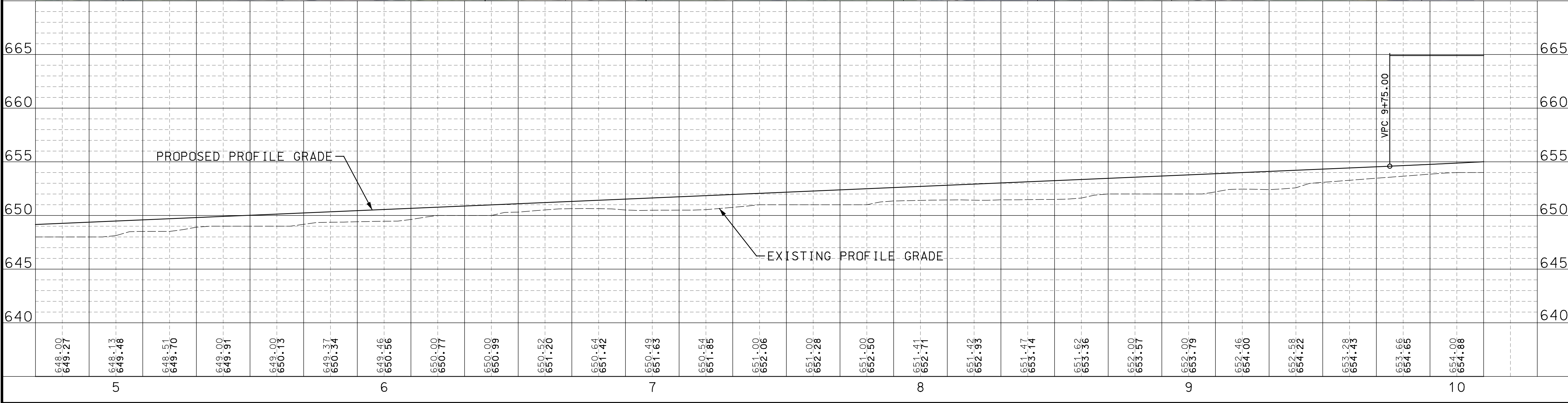
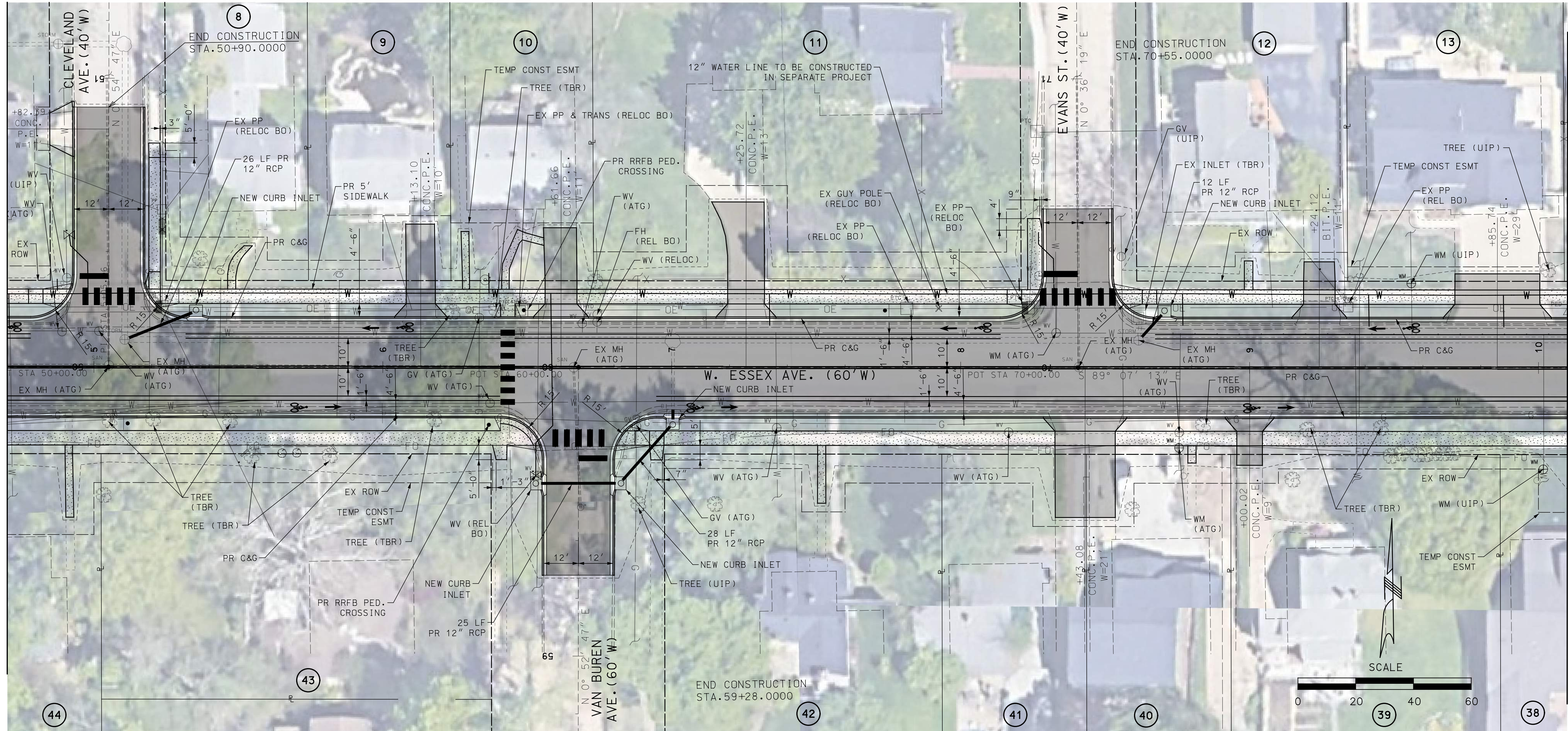
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MATCHLINE STA 4+70

MATCHLINE STA 10+10



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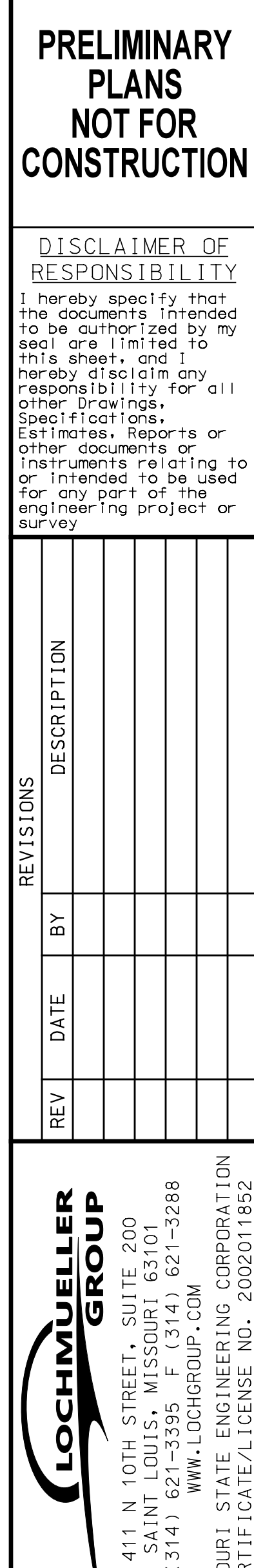
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**WEST ESSEX AVENUE
RECONSTRUCTION**
PLAN AND PROFILE
SHEET 2 OF 5

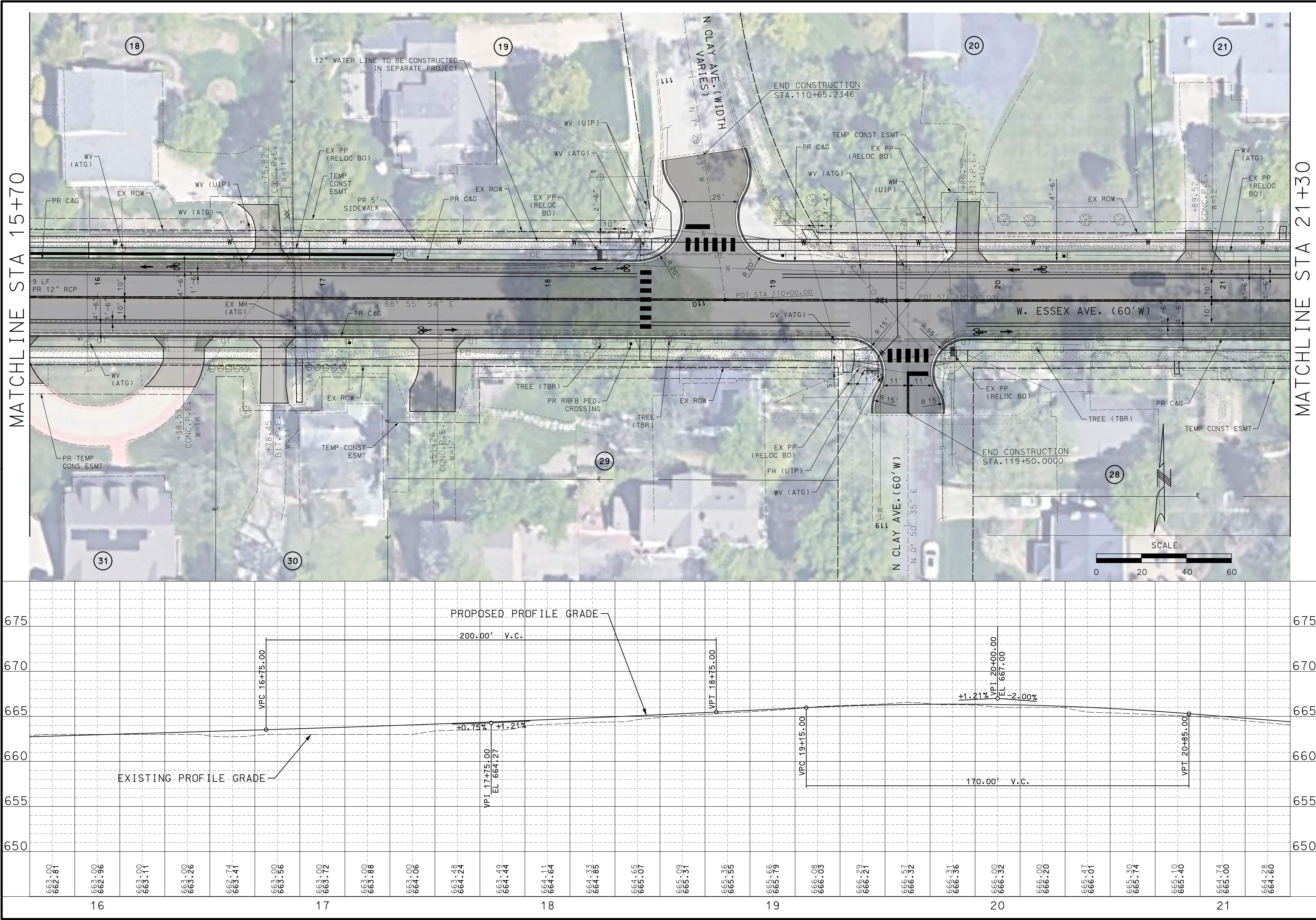
PROJECT/JOB NO. STP-5502(610)	
MSD PROJECT NO.	
MSD BASE MAP 23M.23N	
DATE PREPARED 03/21/2022	
SHEET 9 OF 48	

The diagram illustrates the profile grade for a road section. The horizontal axis represents stationing from 10 to 15. The vertical axis represents elevation in feet, ranging from 640 to 665. Two main profile lines are shown: a solid line for the 'EXISTING PROFILE GRADE' and a dashed line for the 'PROPOSED PROFILE GRADE'. The existing profile starts at station 10+00 (elevation 654.00) and ends at station 14+15 (elevation 661.40). The proposed profile starts at station 10+00 (elevation 654.00) and ends at station 14+15 (elevation 661.40). Vertical curves are indicated by dashed lines connecting the existing and proposed profiles. Key points include VPI 10+50.00 (EL 655.40), VPT 11+25.00, VPC 12+35.00, VPI 13+25.00 (EL 660.90), and VPT 14+15.00. The vertical curve lengths are 150.00' and 180.00'. The grades are +1.08%, +2.00%, +2.00%, and +0.75%.

Station	Existing Profile Grade (Elevation)	Proposed Profile Grade (Elevation)
10+00	654.00	654.00
10+50	655.40	655.40
11+25	656.80	656.80
12+35	658.20	658.20
13+25	660.90	660.90
14+15	661.40	661.40



WEST ESSEX AVENUE RECONSTRUCTION	PLAN AND PROFILE SHEET 3 OF 5	PROJECT/JOB NO.
		STP-5502(610)
		MSD PROJECT NO.
		MSD BASE MAP
		23M,23N
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		10 OF 48



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WEST ESSEX AVENUE
RECONSTRUCTION

PLAN AND PROFILE
SHEET 4 OF 5

PROJECT/JOB NO.
STP-5502(610)

MSD PROJECT NO.

MSD BASE MAP
23M.23N

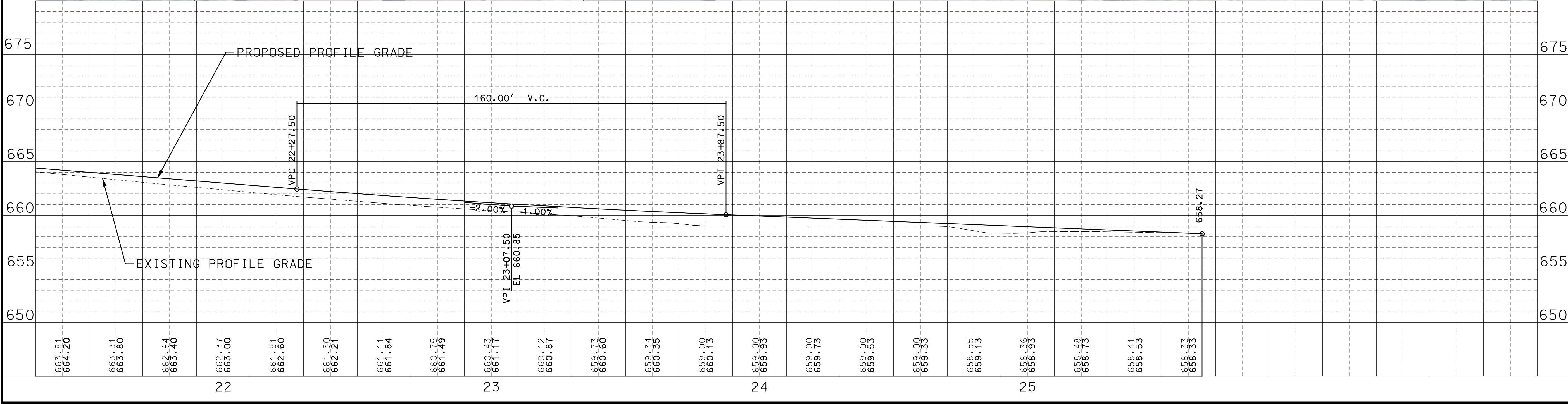
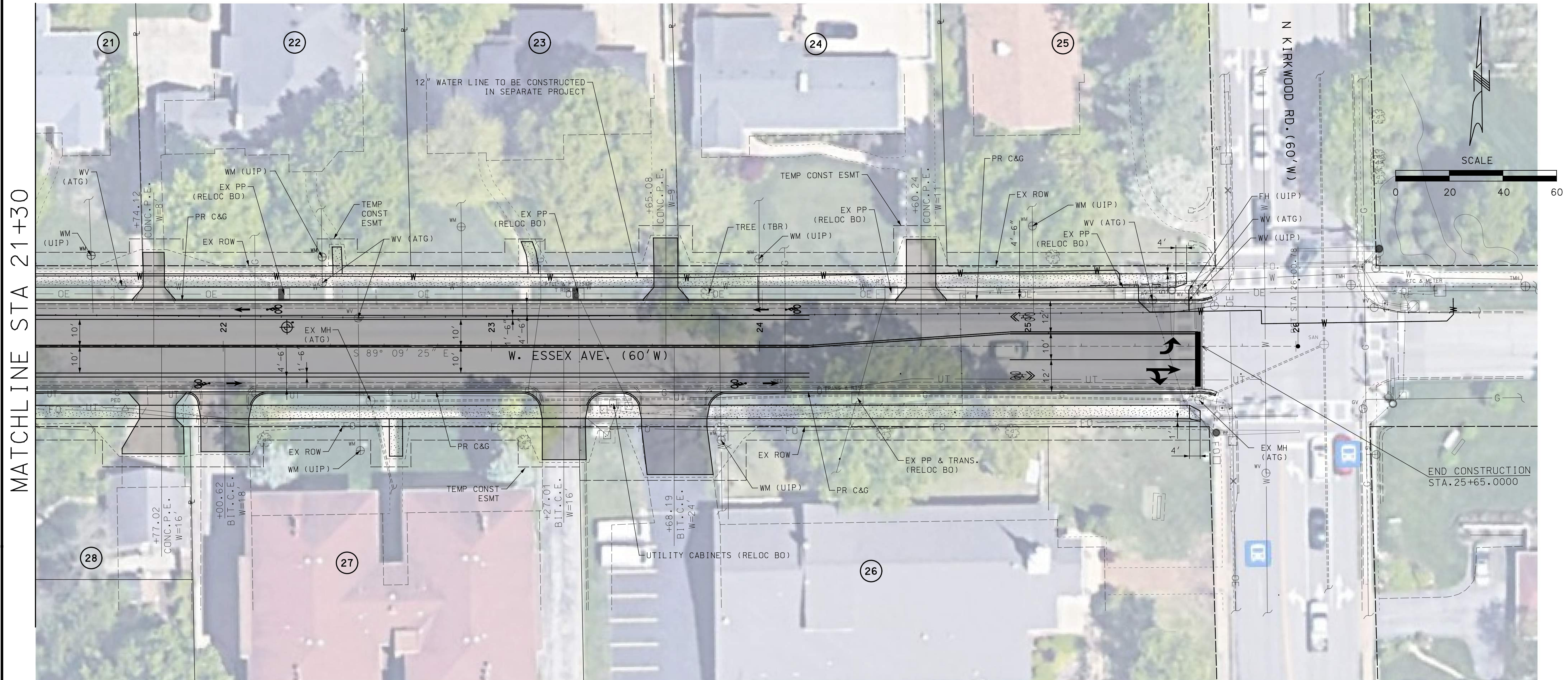
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11 OF 48

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MATCHLINE STA 21+30



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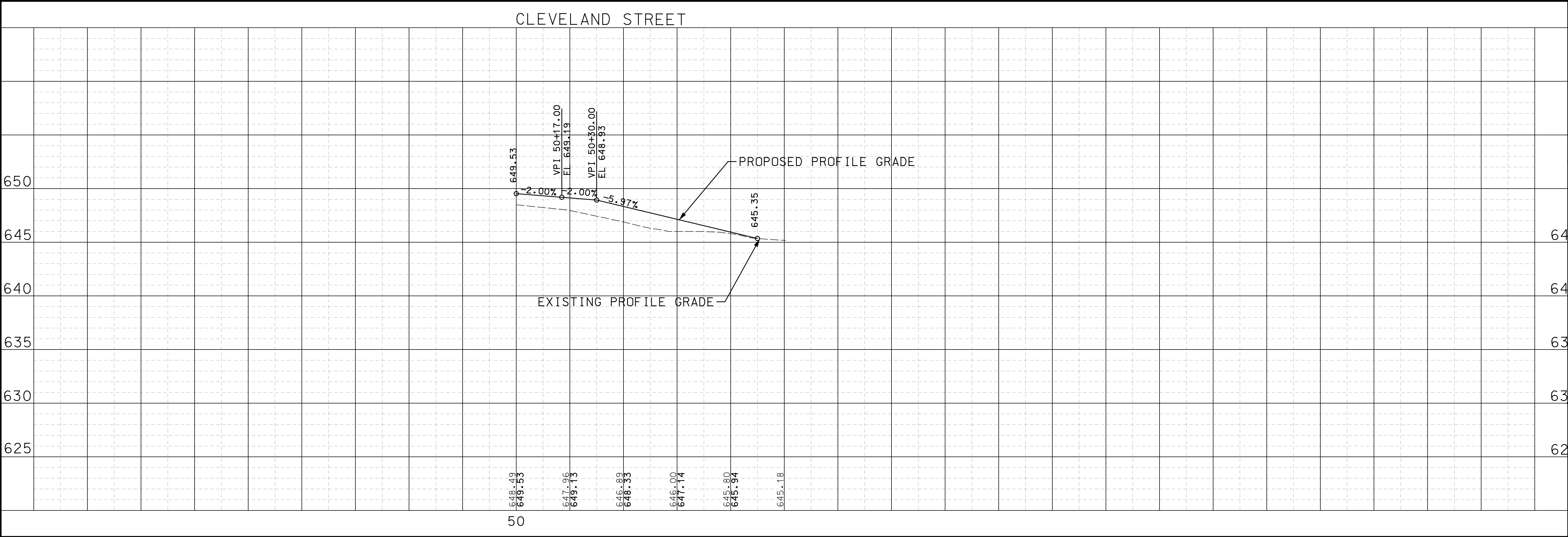
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PLAN AND PROFILE
SHEET 5 OF 5

PROJECT/JOB NO. STP-5502(610)	
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MSD BASE MAP 23M, 23N	
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SHEET 12 OF 48	



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SHEET 1 OF 5

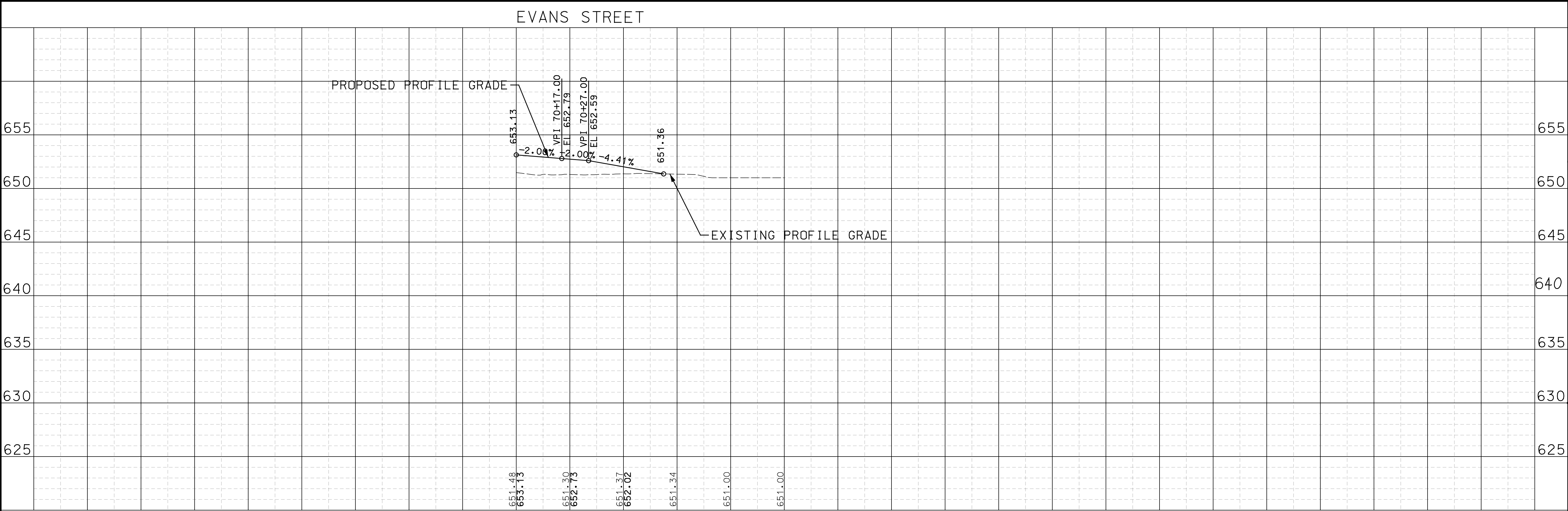
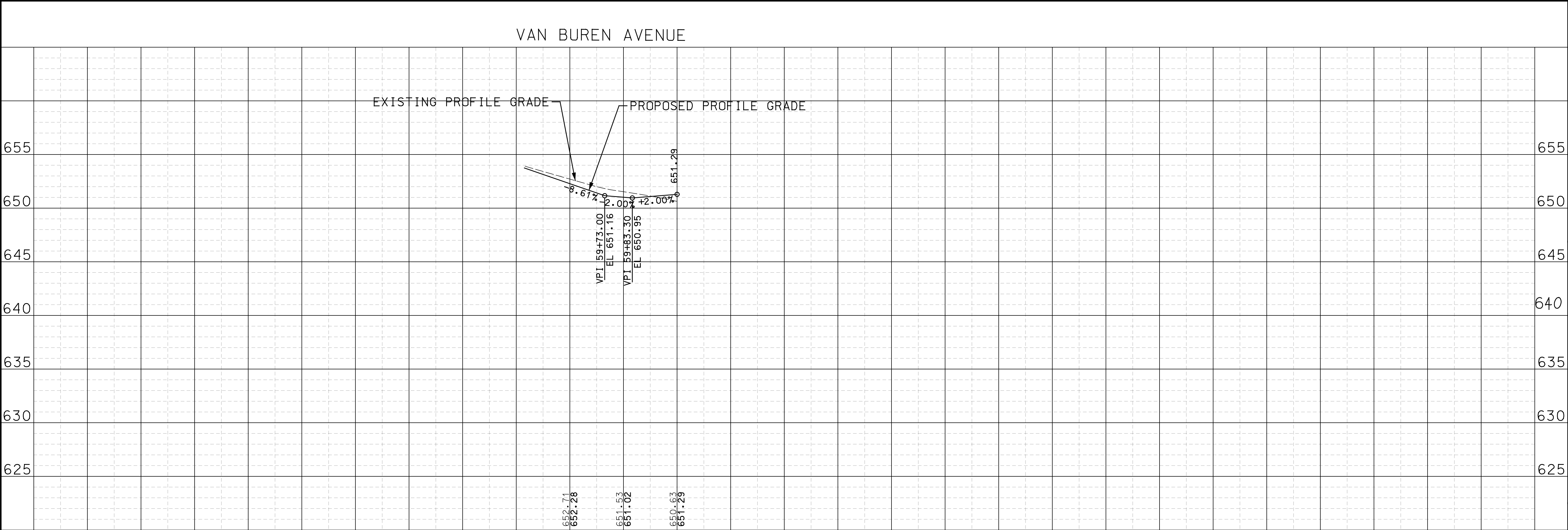
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STP-5502(610)

MSD PROJECT NO.

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SIDE ROAD PROFILES
SHEET 2 OF 5

PROJECT/JOB NO.
STP-5502(610)

MSD PROJECT NO.

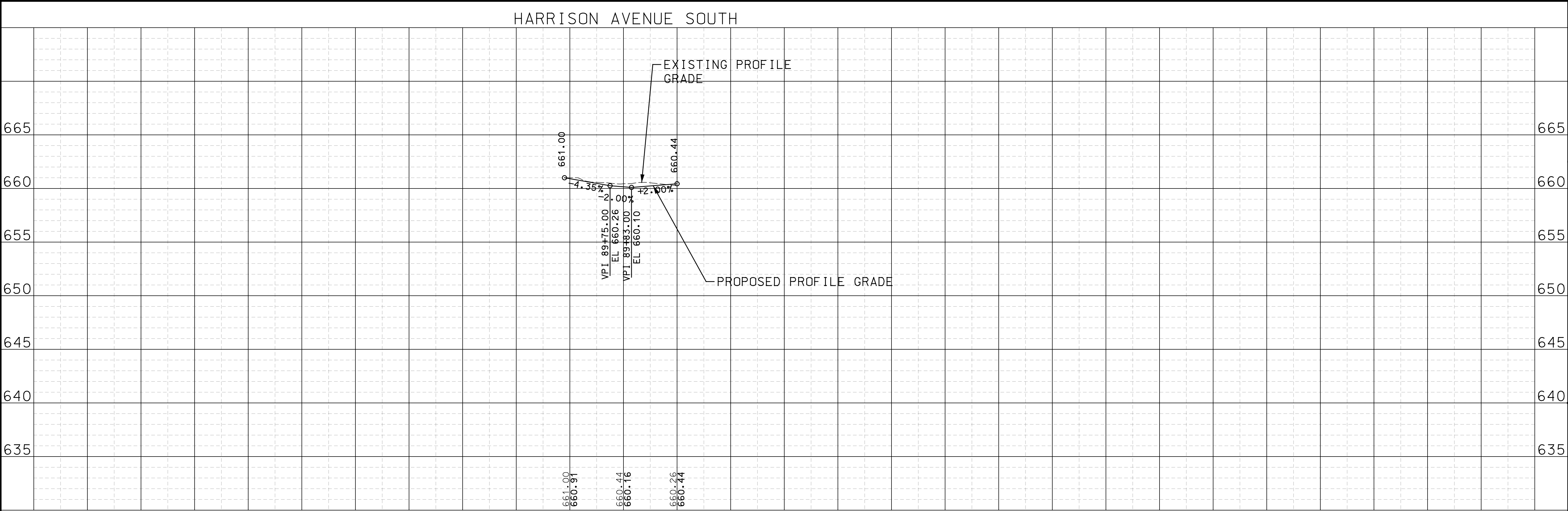
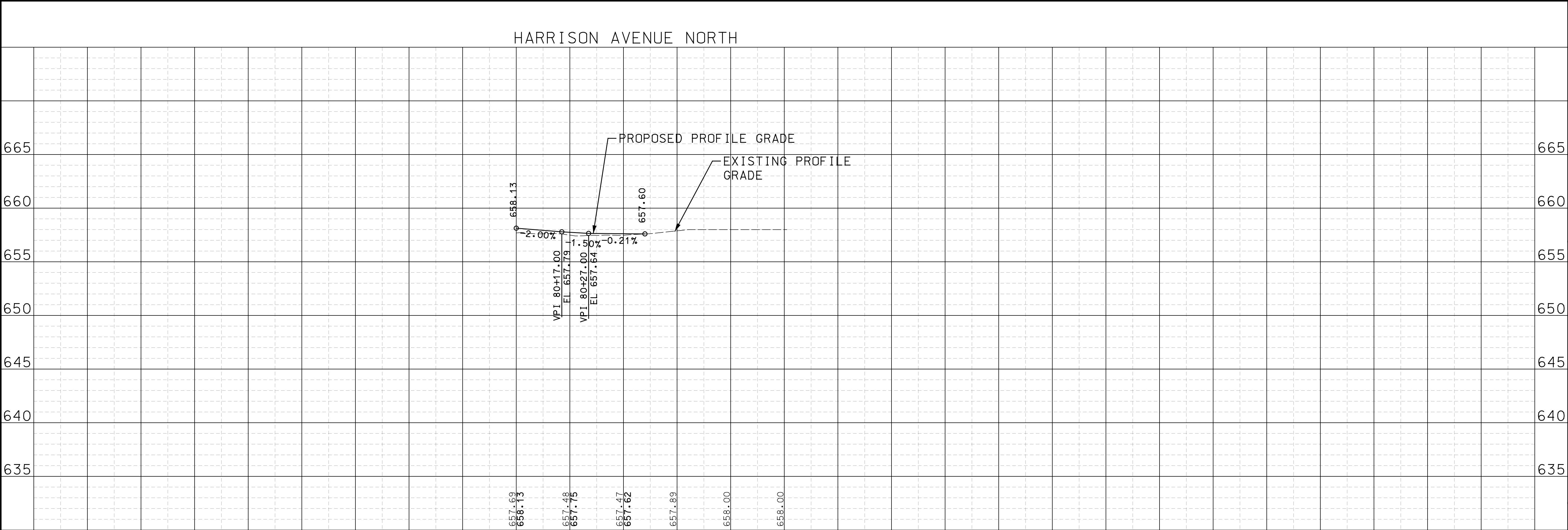
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SIDE ROAD PROFILES
SHEET 3 OF 5

PROJECT/JOB NO.
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MSD PROJECT NO.

MSD BASE MAP
23M, 23N

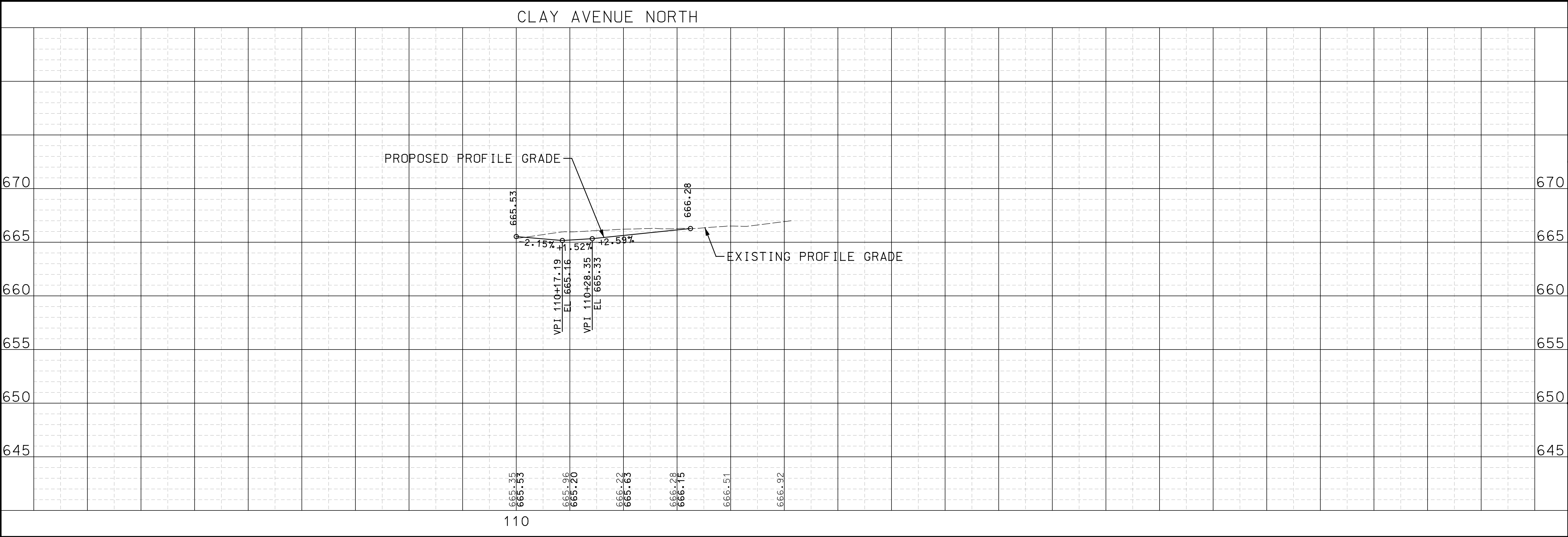
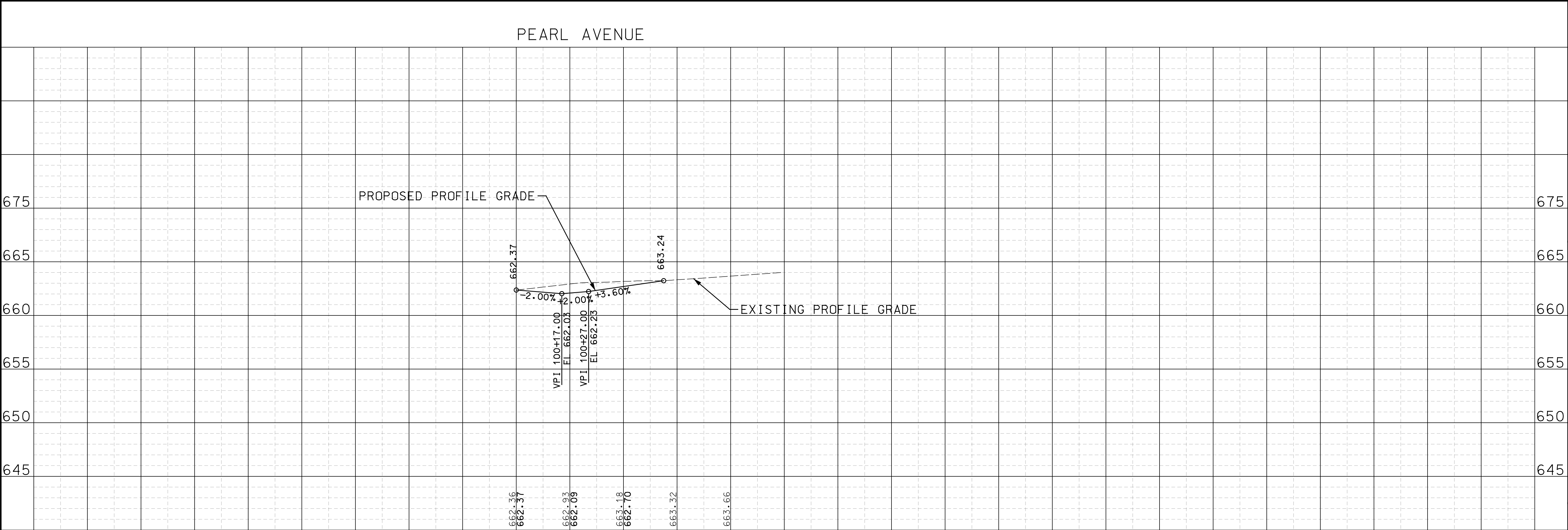
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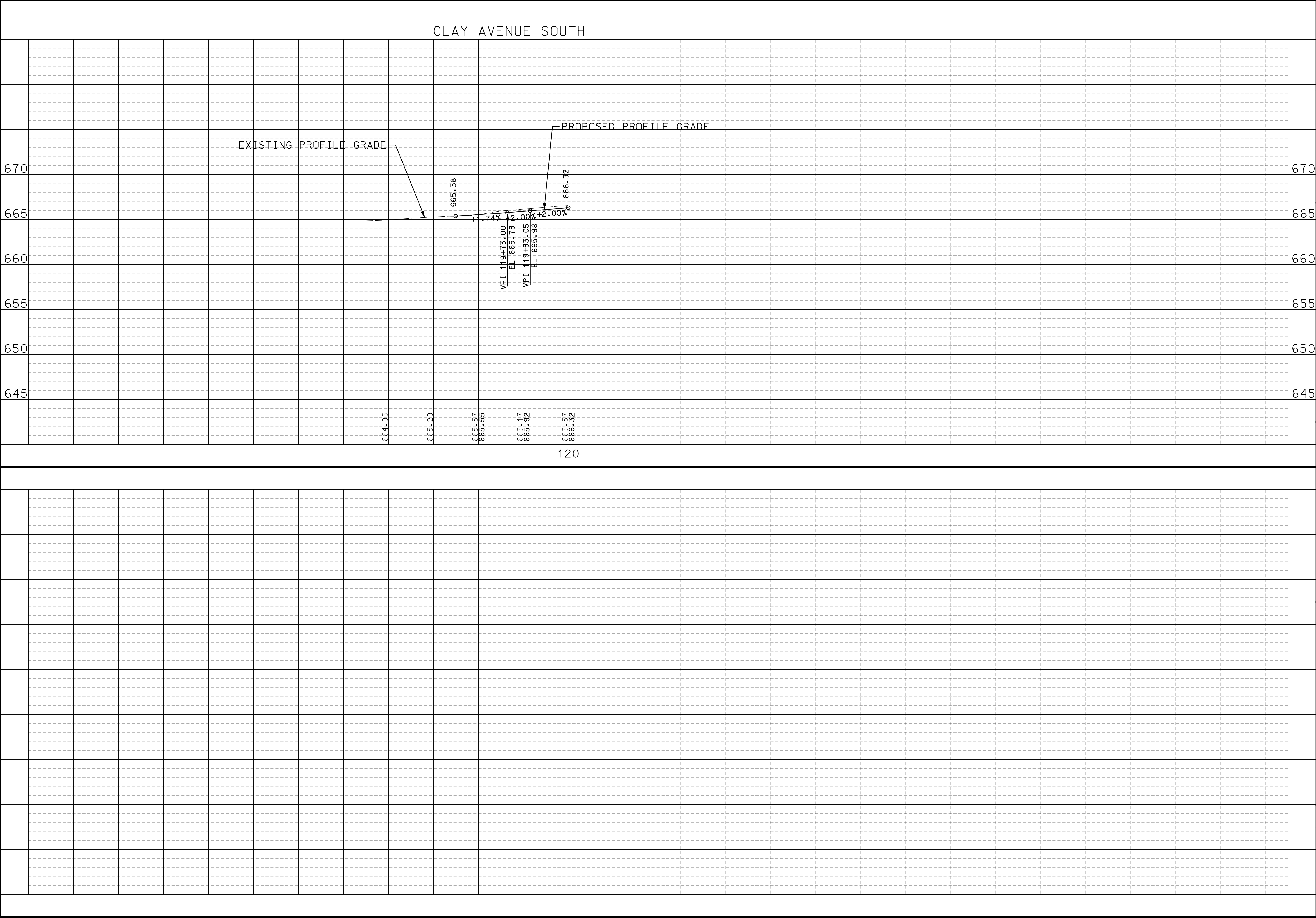
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MSD PROJECT NO.

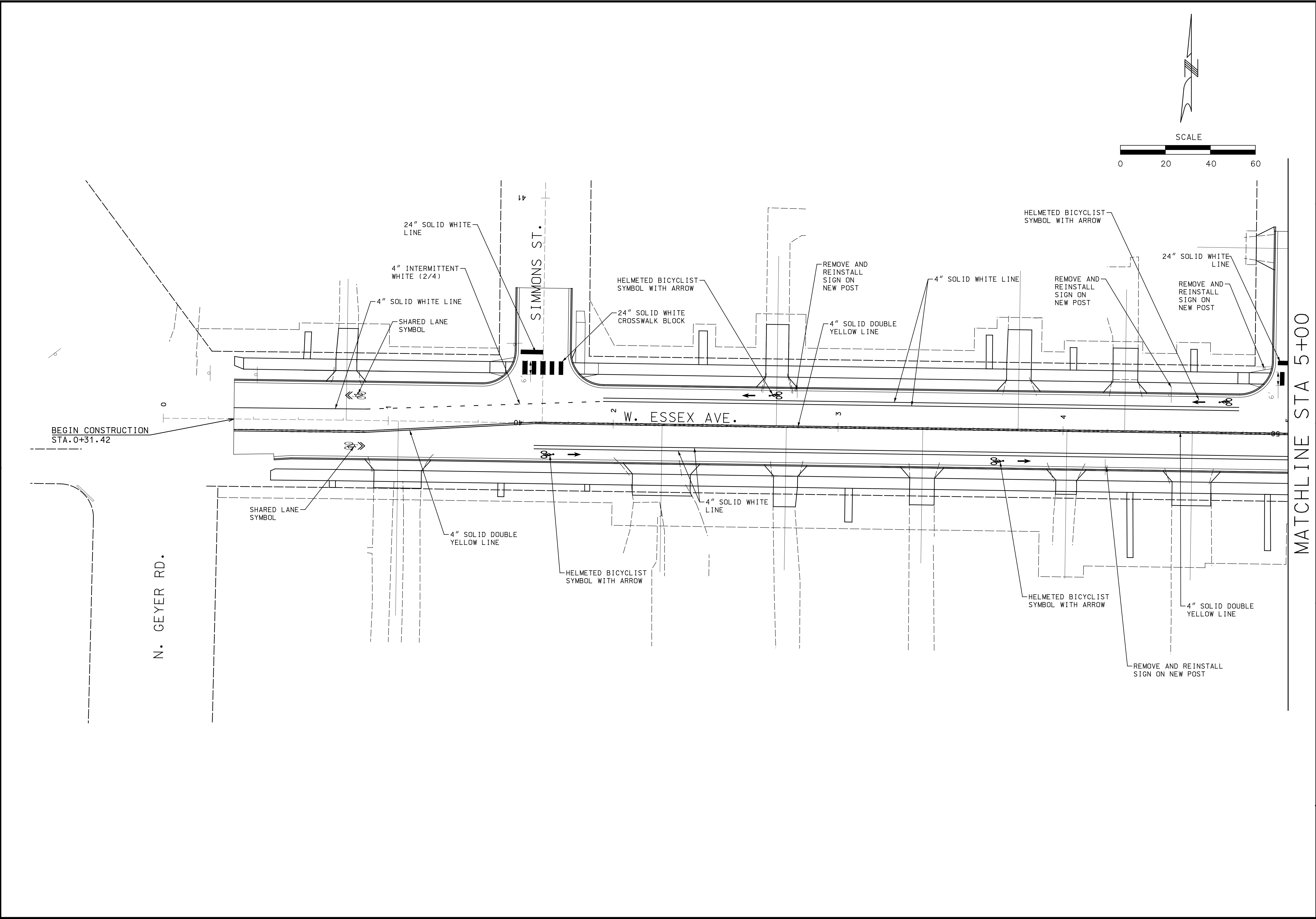
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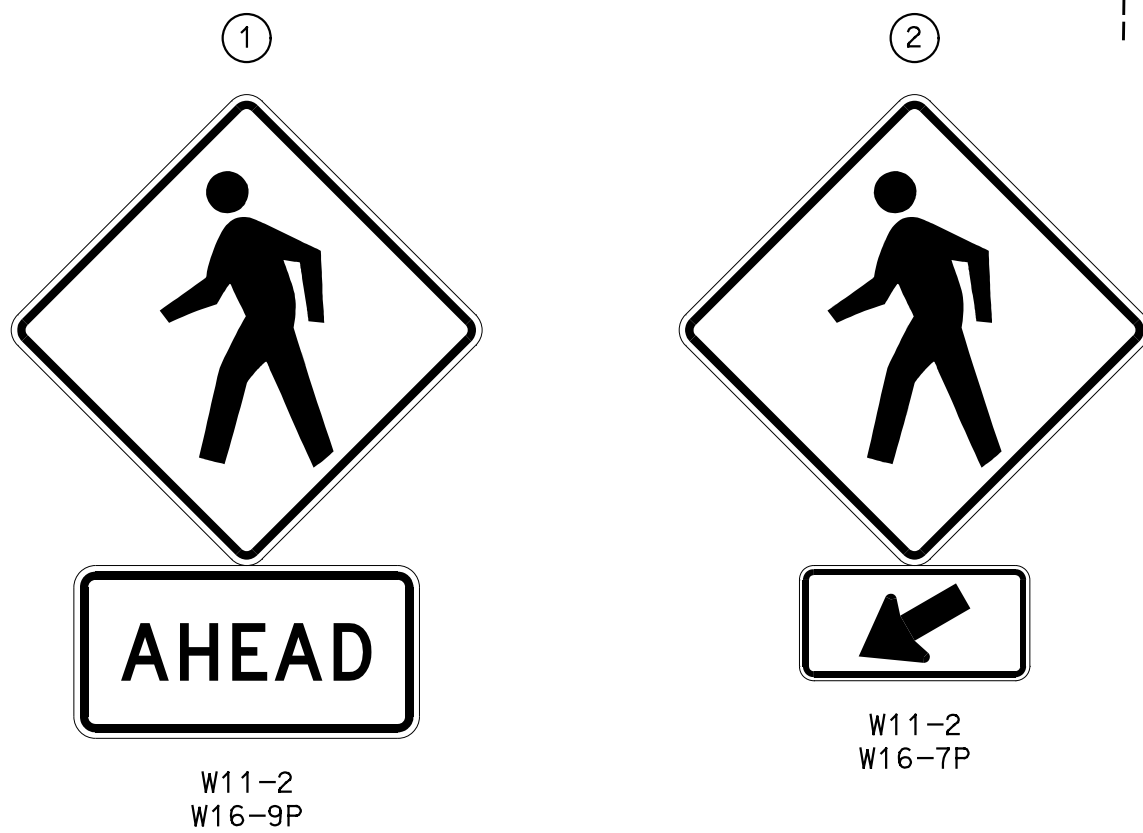
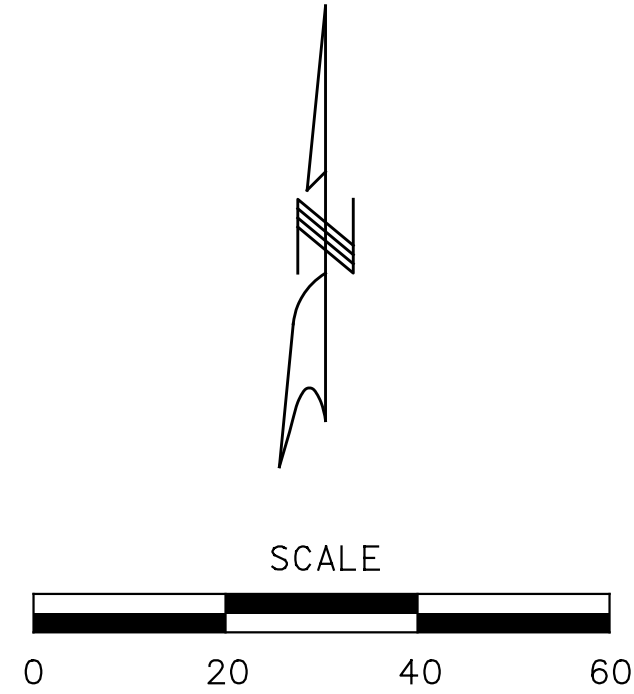
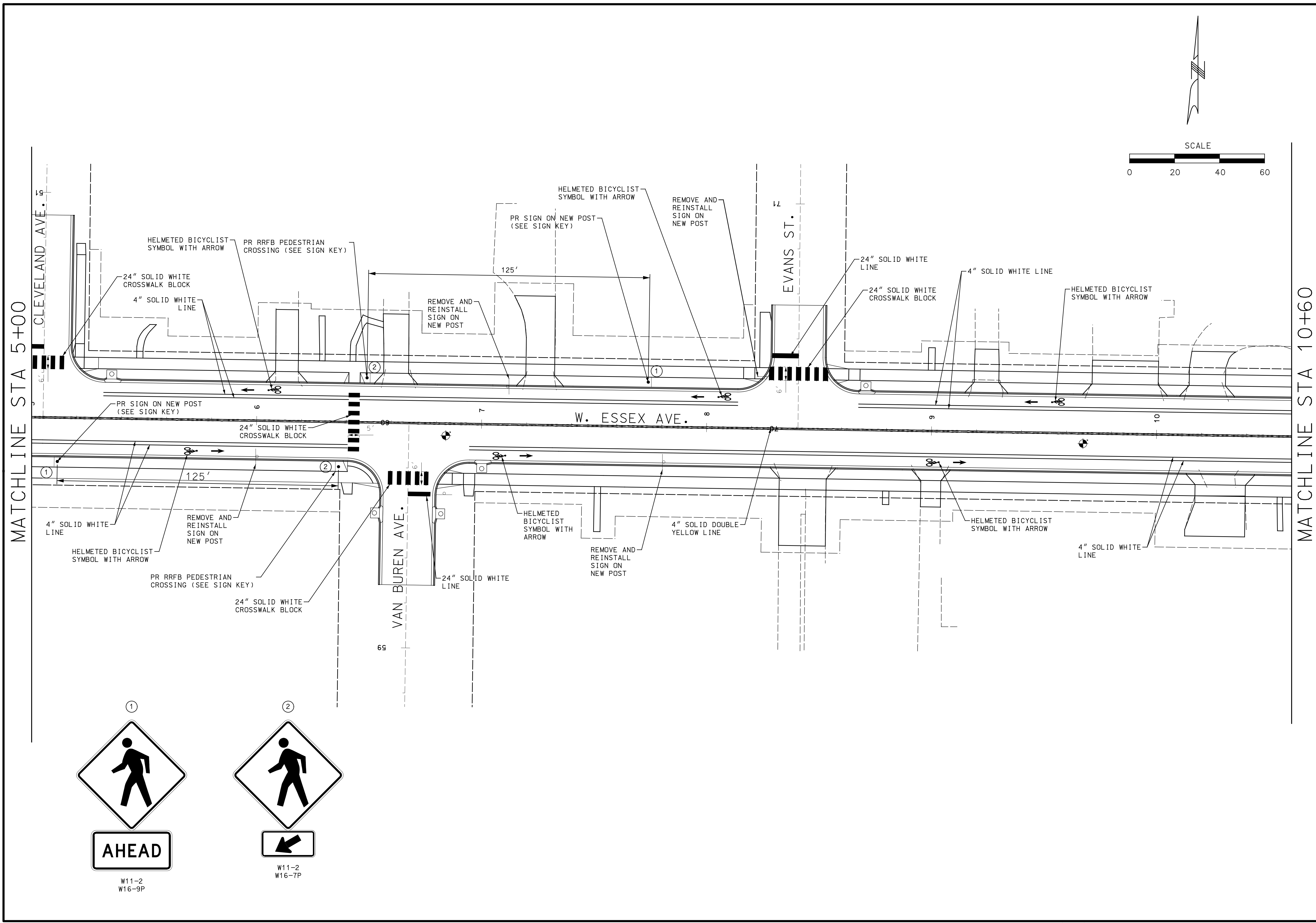


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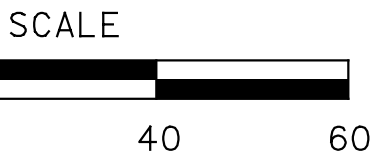
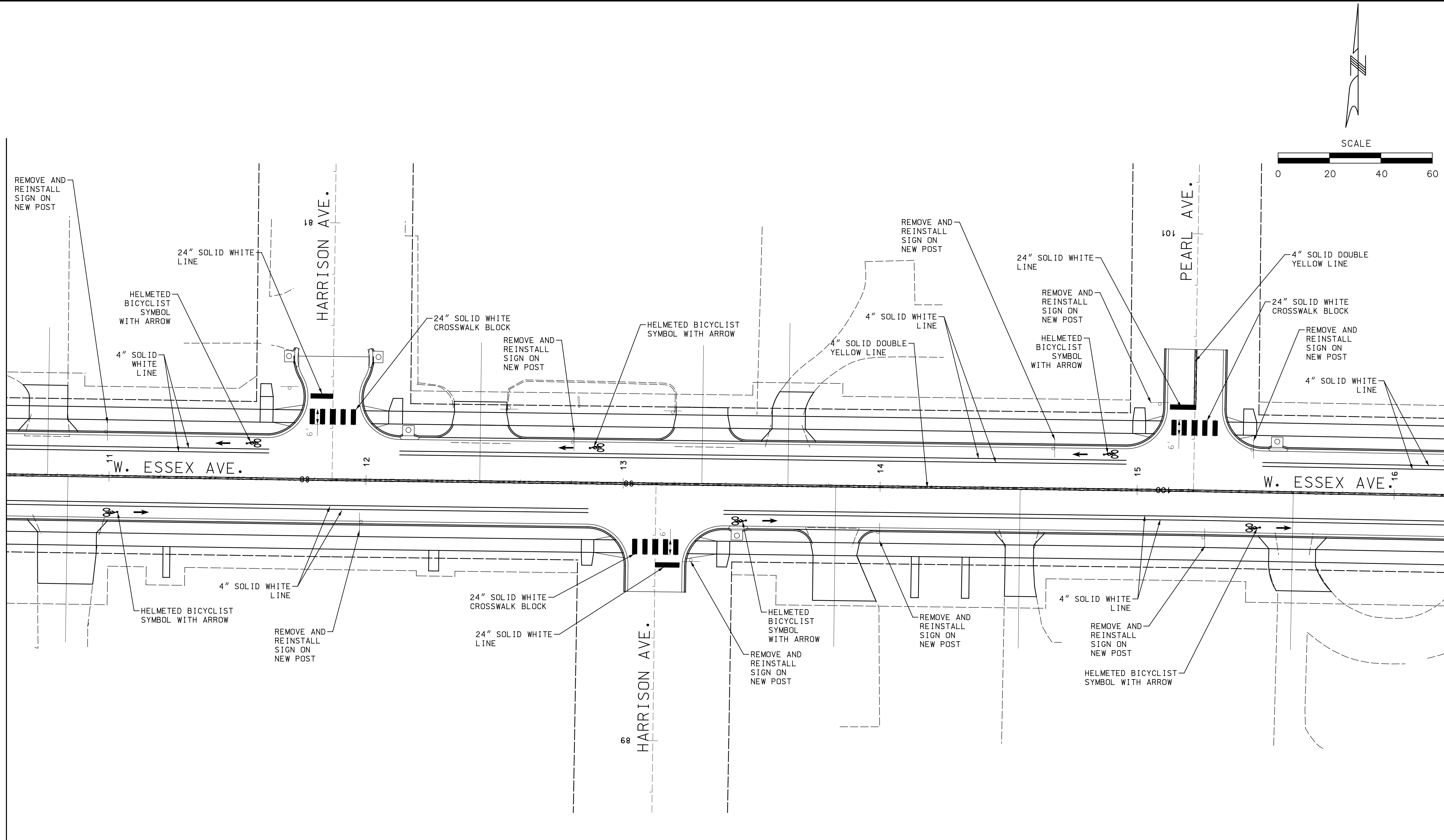


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MATCHLINE STA 10+60



MATCHLINE STA 16+20

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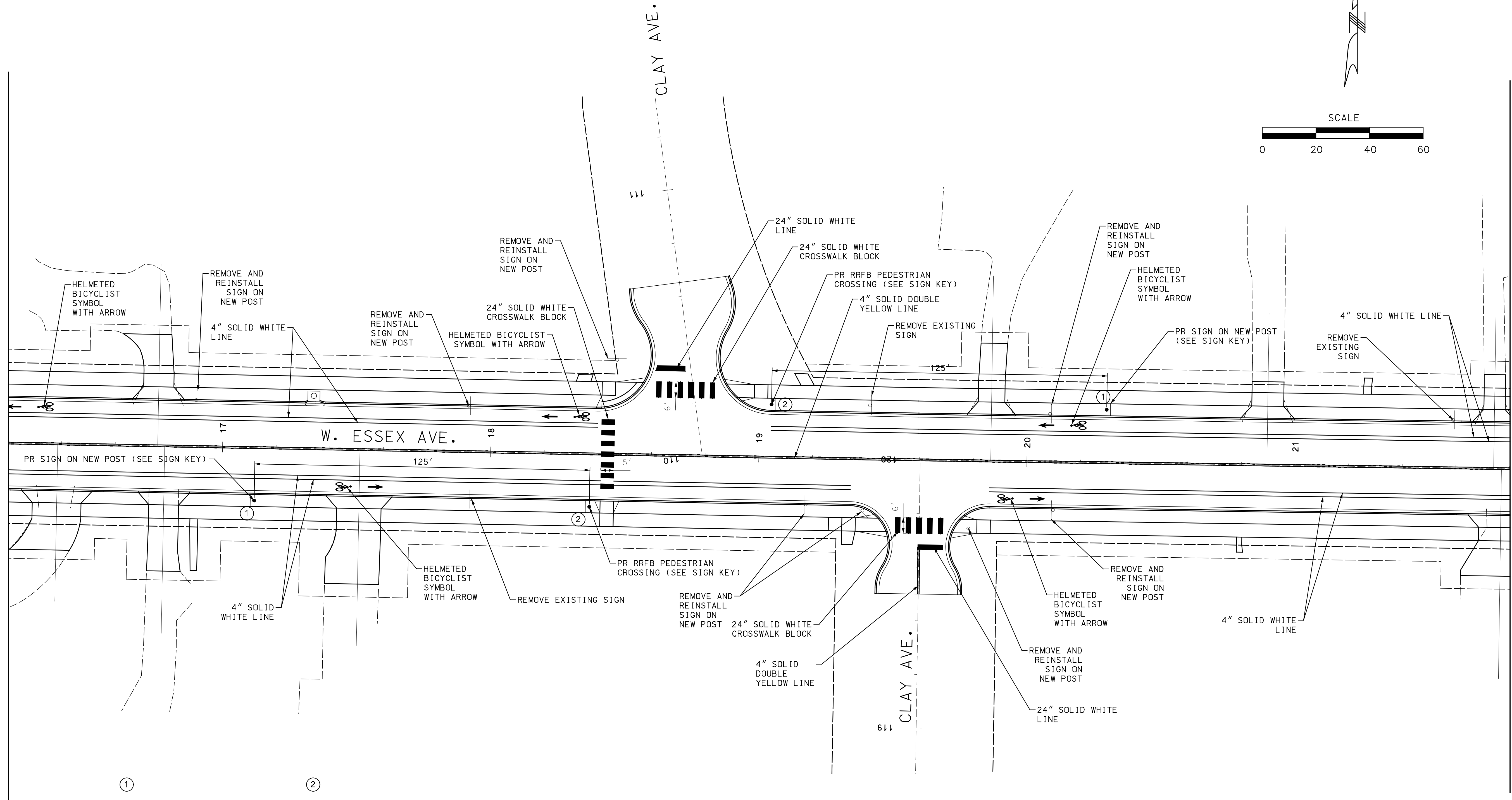
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W11-2
W16-9P



W11-2
W16-7P

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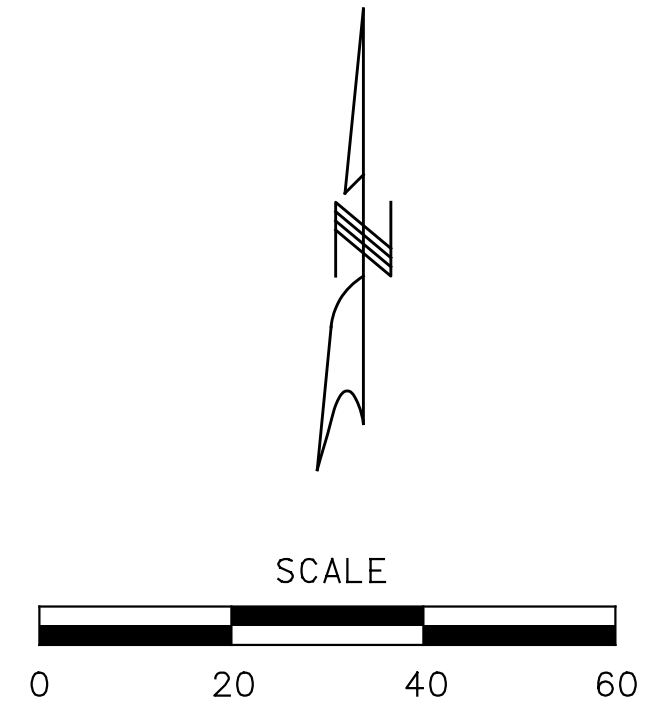
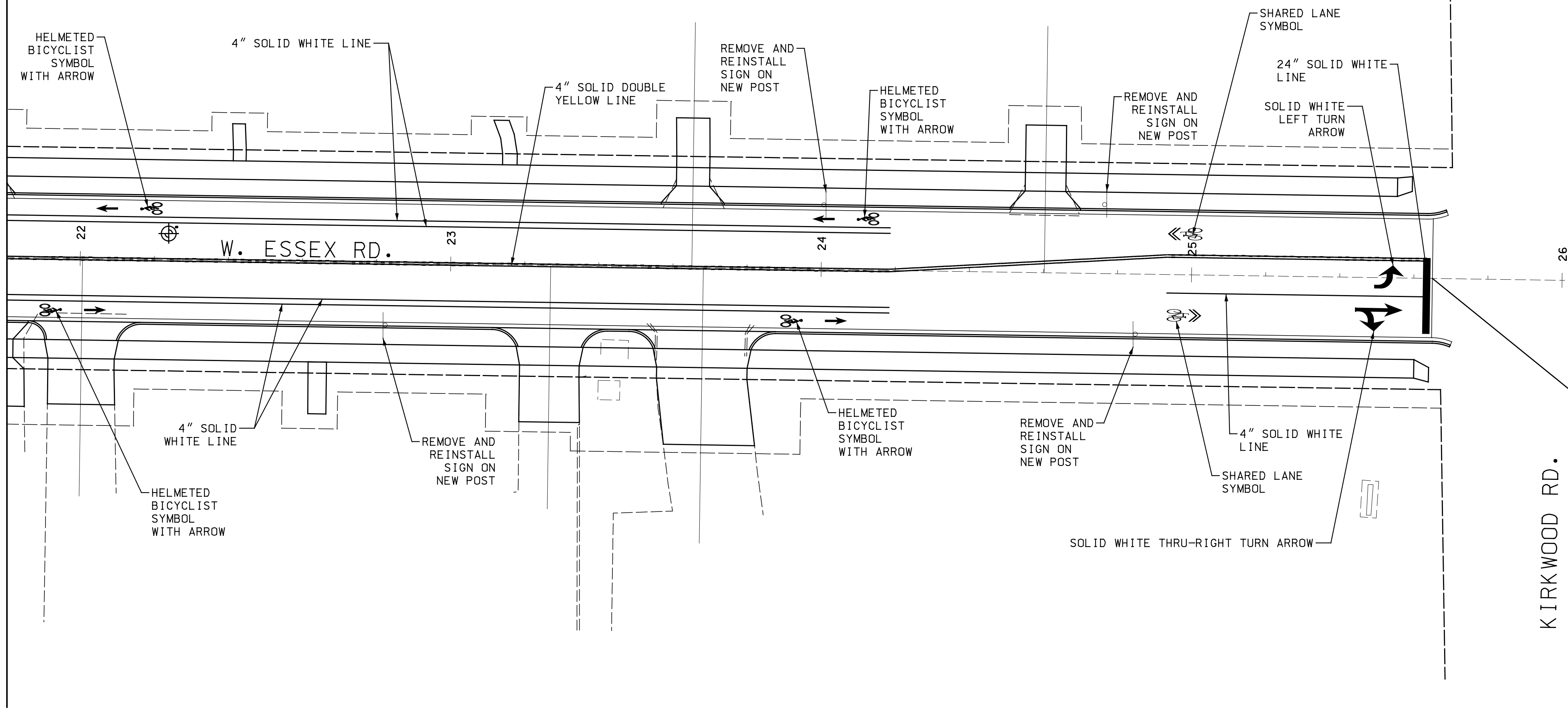
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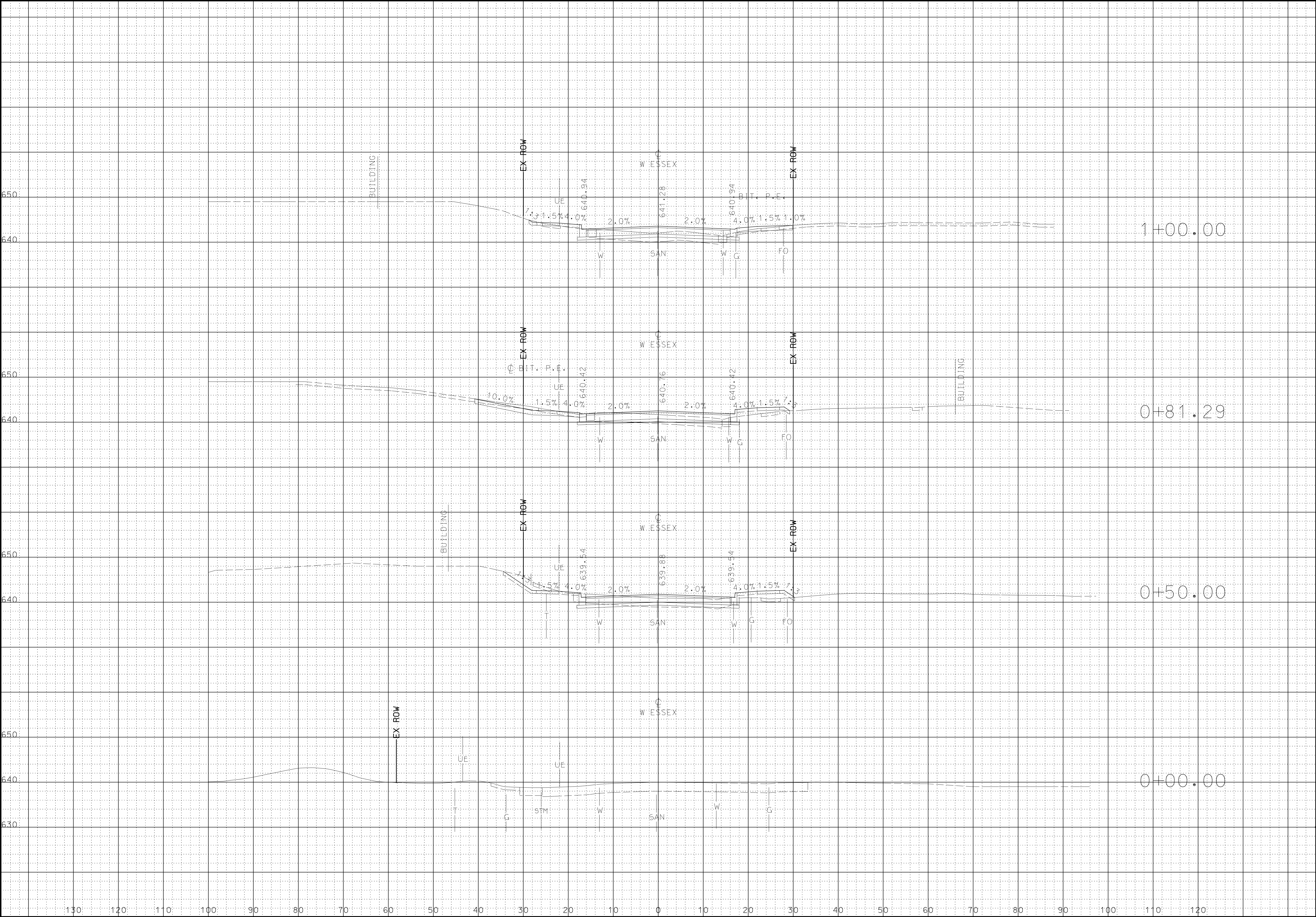


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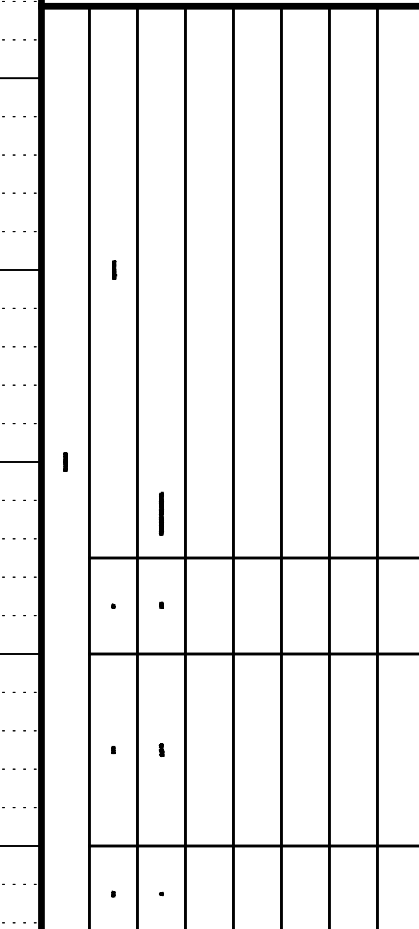
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MSD BASE MAP	23M, 23N
DATE PREPARED	03/21/2022
SHEET	24 OF 48

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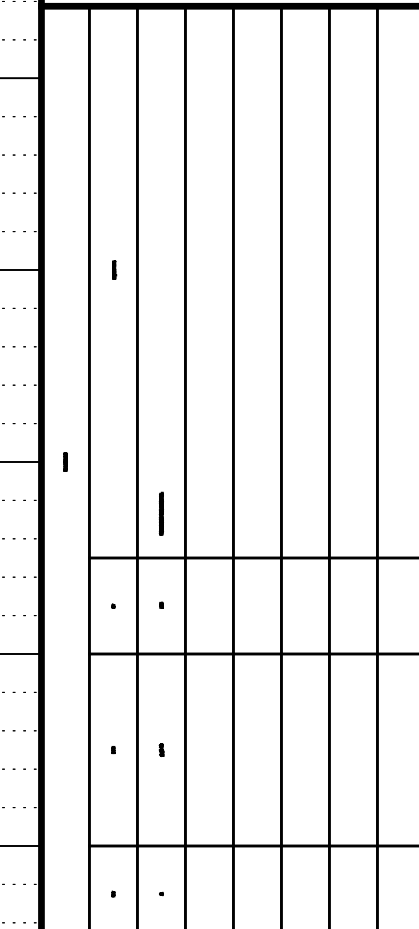
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MSD BASE MAP	23M,23N
DATE PREPARED	03/21/2022
SHEET	25 OF 48

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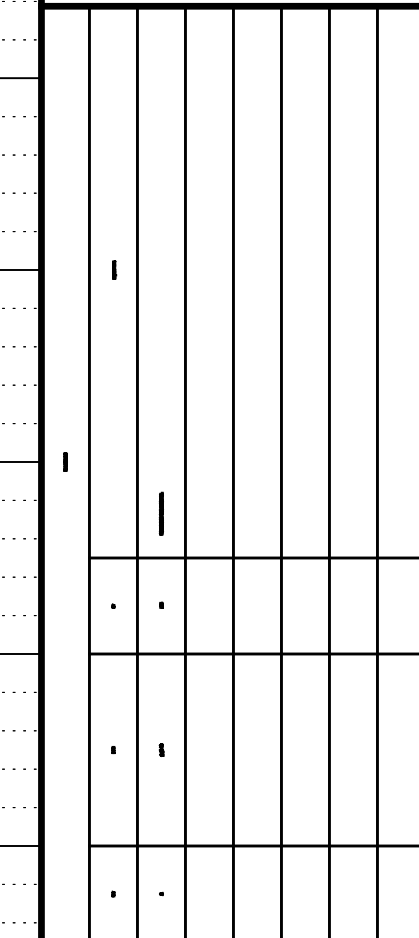
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MSD BASE MAP	23M, 23N
DATE PREPARED	03/21/2022
SHEET	26 OF 48

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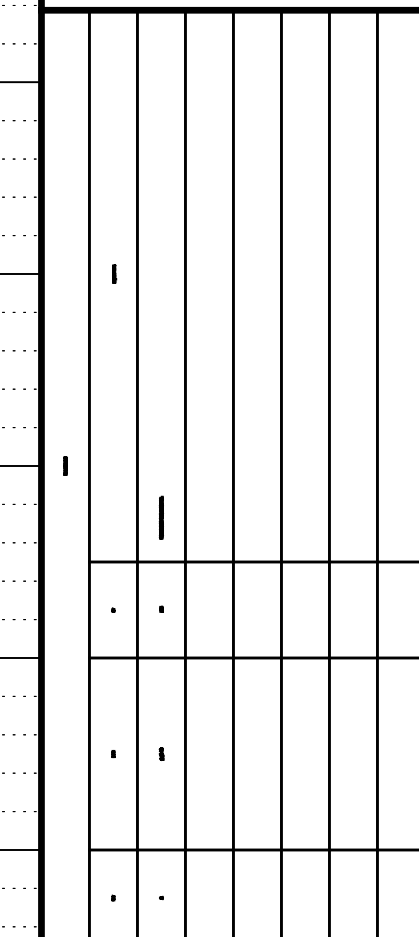
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MSD BASE MAP	23M, 23N
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SHEET	27 OF 48

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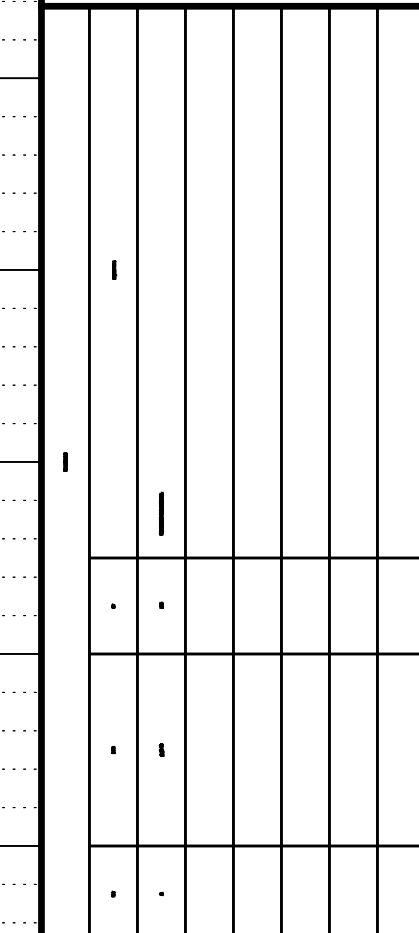
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SHEET	28 OF 48

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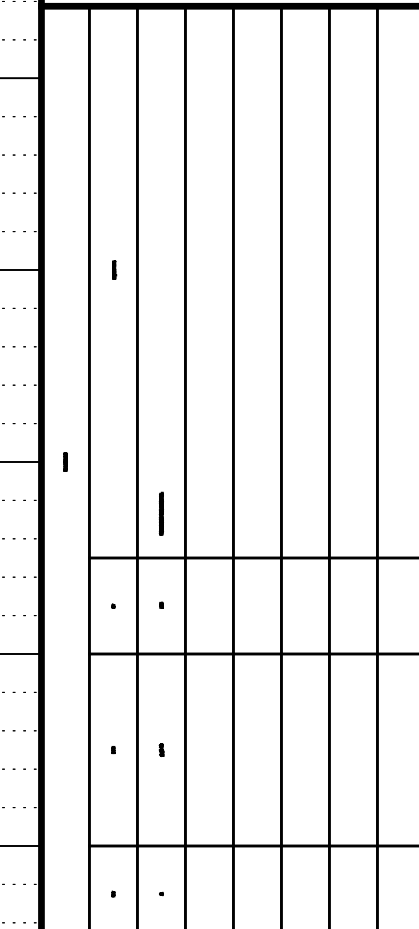
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MSD BASE MAP	23M, 23N
DATE PREPARED	03/21/2022
SHEET	29 OF 48

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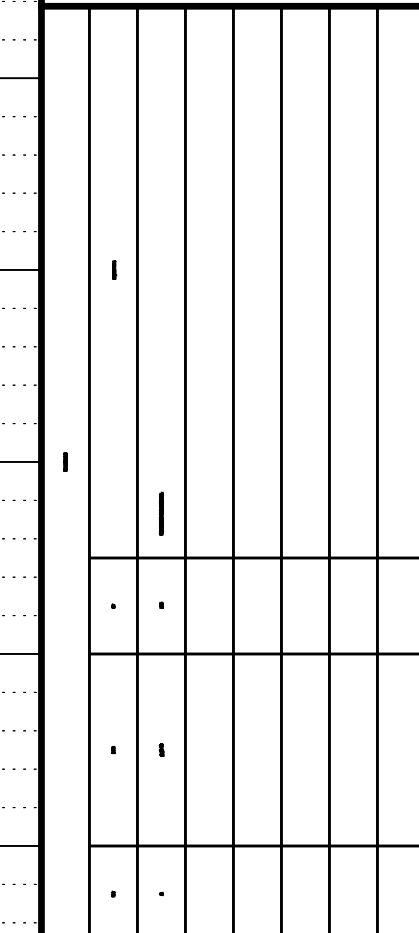
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WEST ESSEX AVENUE
RECONSTRUCTION

CROSS SECTIONS
WEST ESSEX AVENUE

PROJECT/JOB NO.	STP-5502(610)
MSD BASE MAP	23M, 23N
DATE PREPARED	03/21/2022
SHEET	30 OF 48

LOCHMUELLER PROJECT NO. 520-0140

DATE _____

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WEST ESSEX AVENUE RECONSTRUCTION	CROSS SECTIONS WEST ESSEX AVENUE
1	1
2	2
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PROJECT/JOB NO.	STP-5502(610)
MSD BASE MAP	23M,23N
DATE PREPARED	03/21/2022
SHEET	31 OF 48

LOCHMUELLER PROJECT NO. 520-0140

DATE _____

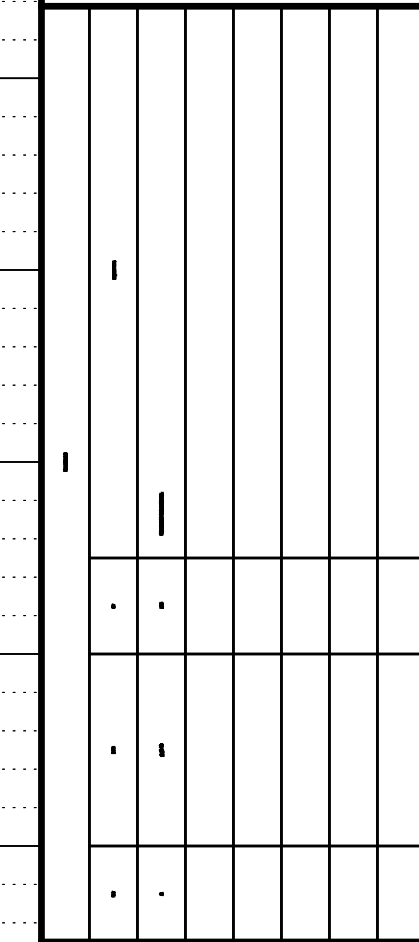
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WEST ESSEX AVENUE
RECONSTRUCTION

CROSS SECTIONS
WEST ESSEX AVENUE

PROJECT/JOB NO.	STP-5502(610)
MSD BASE MAP	23M, 23N
DATE PREPARED	03/21/2022
SHEET	32 OF 48

UNCLASSIFIED PROJECT NO. 520-0140

DATE _____

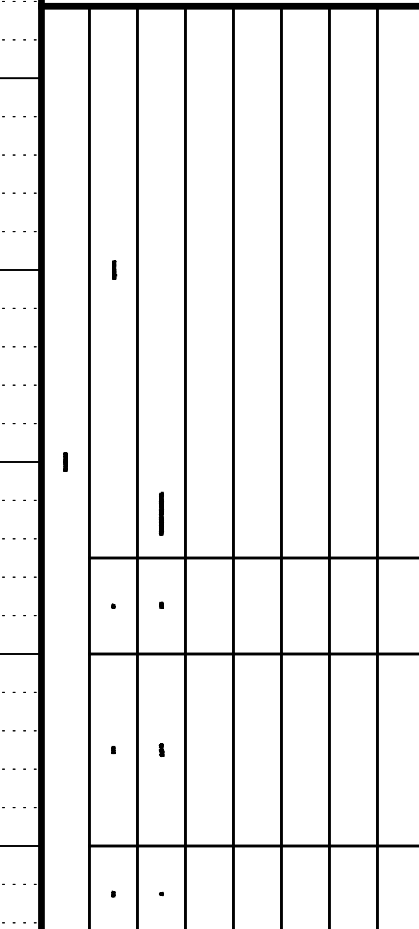
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RECONSTRUCTION

CROSS SECTIONS
WEST ESSEX AVENUE

PROJECT/JOB NO.	STP-5502(610)
MSD BASE MAP	23M, 23N
DATE PREPARED	03/21/2022
SHEET	33 OF 48

LOCHMUELLER PROJECT NO. 520-0140

DATE _____

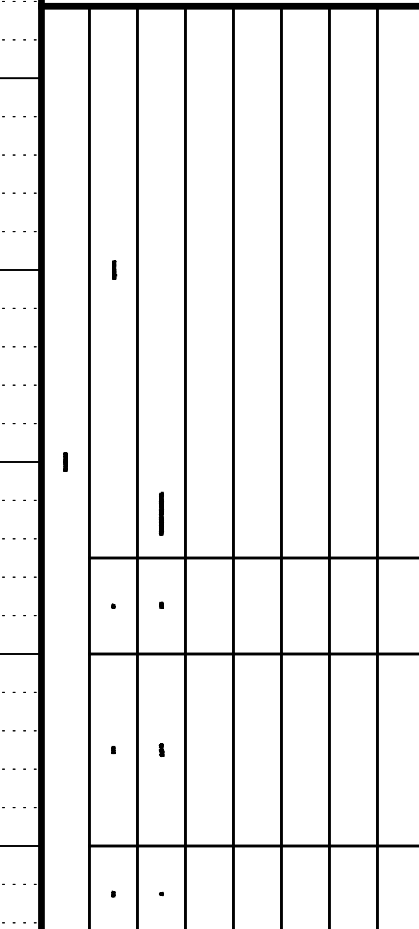
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RECONSTRUCTION

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PROJECT/JOB NO.	STP-5502(610)
MSD BASE MAP	23M, 23N
DATE PREPARED	03/21/2022
SHEET	34 OF 48

LOCHMUELLER PROJECT NO. 520-0140

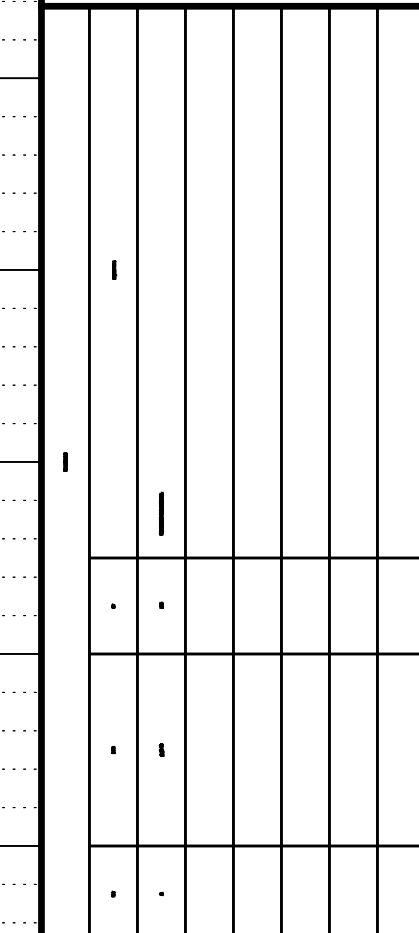
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WEST ESSEX AVENUE
RECONSTRUCTION

CROSS SECTIONS
WEST ESSEX AVENUE

PROJECT/JOB NO.	STP-5502(610)
MSD BASE MAP	23M, 23N
DATE PREPARED	03/21/2022
SHEET	35 OF 48

UNIONMILIER PROJECT NO. 520-0140

DATE _____

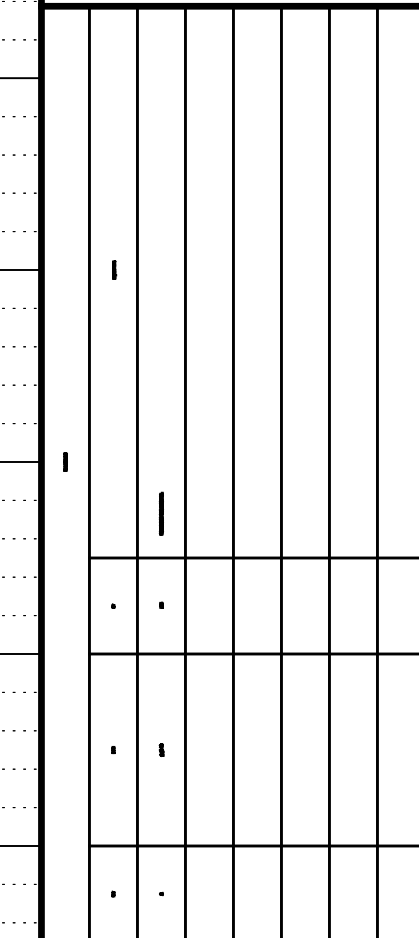
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WEST ESSEX AVENUE RECONSTRUCTION	CROSS SECTIONS WEST ESSEX AVENUE
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PROJECT/JOB NO.	STP-5502(610)
MSD BASE MAP	23M, 23N
DATE PREPARED	03/21/2022
SHEET	36 OF 48

LOCHMUELLER PROJECT NO. 520-0140

DATE _____

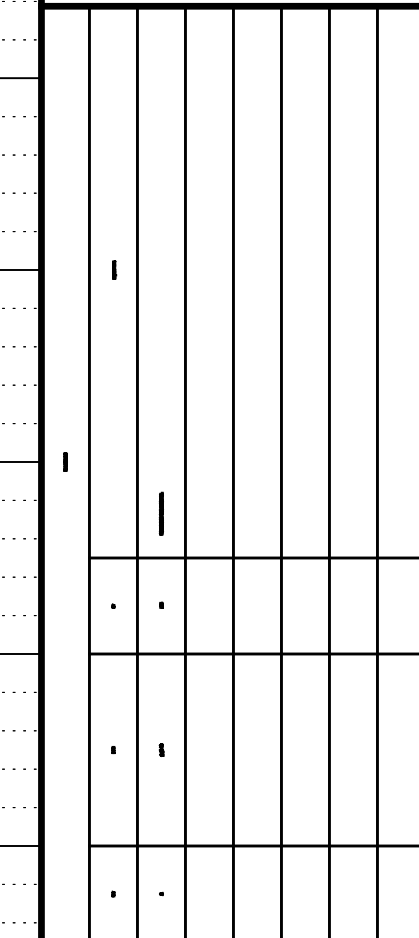
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WEST ESSEX AVENUE
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CROSS SECTIONS
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PROJECT/JOB NO.	STP-5502(610)
MSD BASE MAP	23M, 23N
DATE PREPARED	03/21/2022
SHEET	37 OF 48

UNIONMILLER PROJECT NO. 520-0140

DATE _____

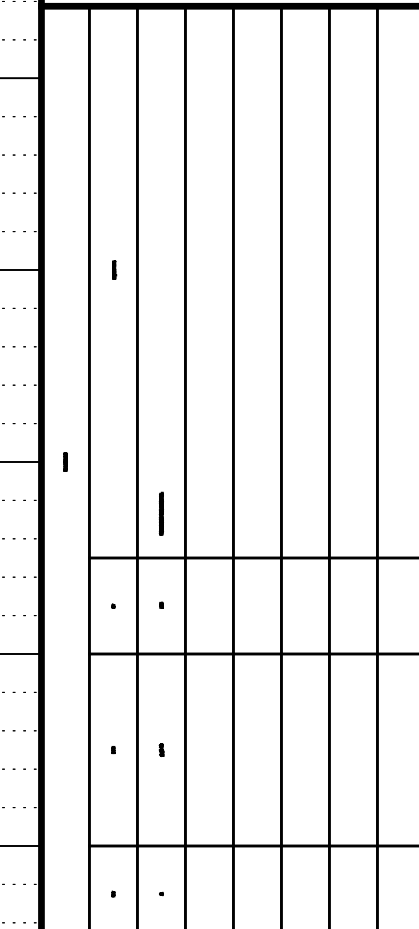
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CROSS SECTIONS
WEST ESSEX AVENUE

PROJECT/JOB NO.	STP-5502(610)
MSD BASE MAP	23M, 23N
DATE PREPARED	03/21/2022
SHEET	38 OF 48

LOCHMUELLER PROJECT NO. 520-0140

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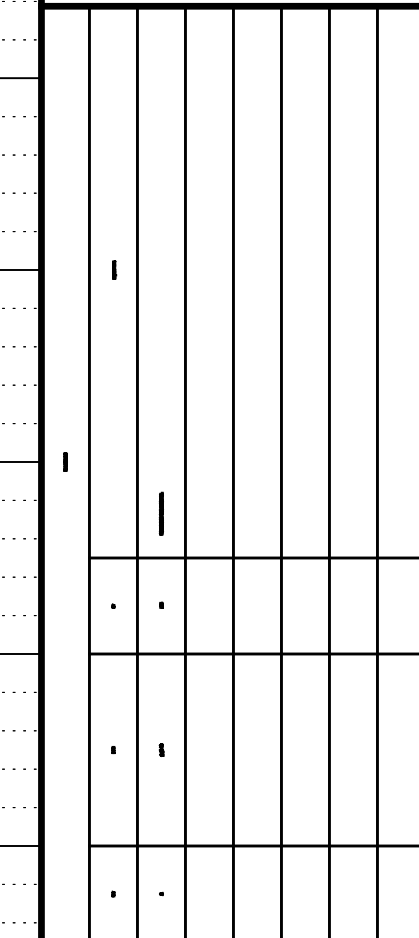
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RECONSTRUCTION

CROSS SECTIONS
WEST ESSEX AVENUE

PROJECT/JOB NO.	STP-5502(610)
MSD BASE MAP	23M, 23N
DATE PREPARED	03/21/2022
SHEET	39 OF 48

LOCHMUELLER PROJECT NO. 520-0140

DATE _____

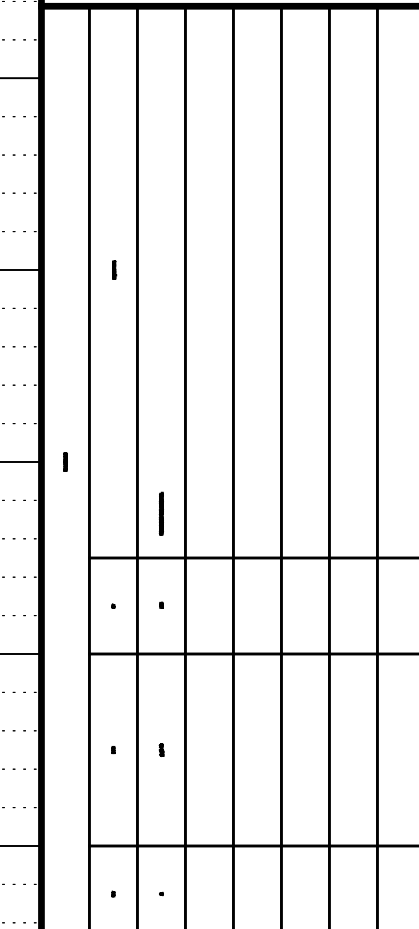
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CROSS SECTIONS
WEST ESSEX AVENUE

PROJECT/JOB NO.	STP-5502(610)
MSD BASE MAP	23M, 23N
DATE PREPARED	03/21/2022
SHEET	40 OF 48

LOCHMUELLER PROJECT NO. 520-0140

DATE _____

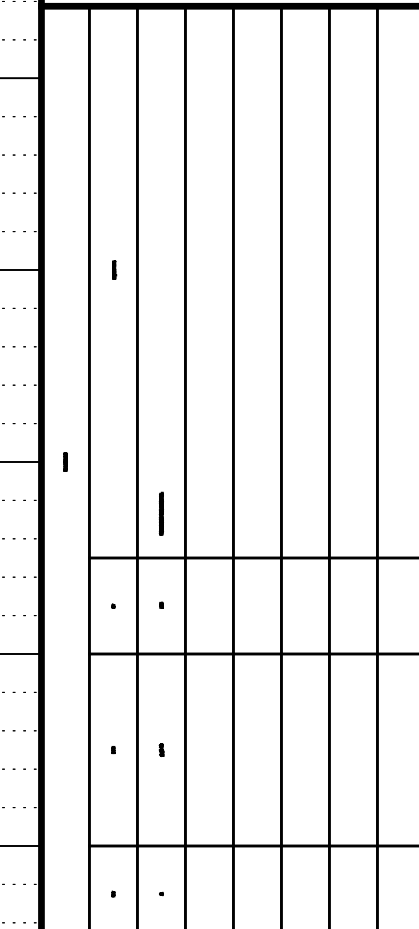
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RECONSTRUCTION

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WEST ESSEX AVENUE

PROJECT/JOB NO.	STP-5502(610)
MSD BASE MAP	23M, 23N
DATE PREPARED	03/21/2022
SHEET	41 OF 48

DATE _____

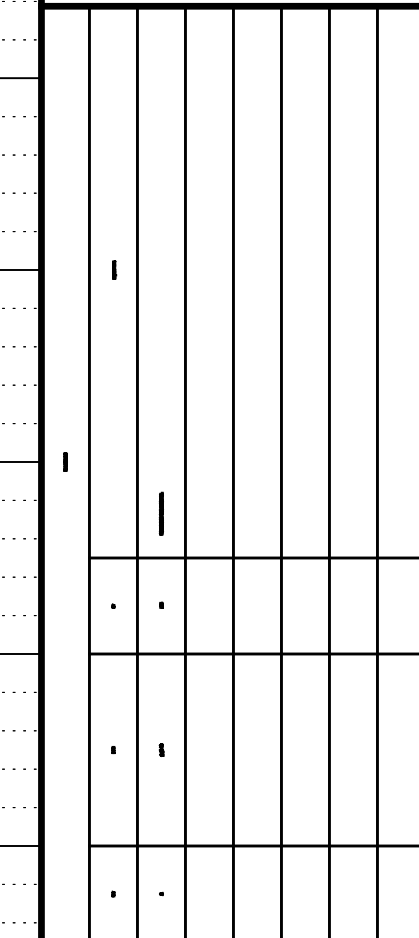
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RECONSTRUCTION

CROSS SECTIONS
WEST ESSEX AVENUE

PROJECT/JOB NO.	STP-5502(610)
MSD BASE MAP	23M, 23N
DATE PREPARED	03/21/2022
SHEET	42 OF 48

UNCLASSIFIED PROJECT NO. 520-0140

DATE _____

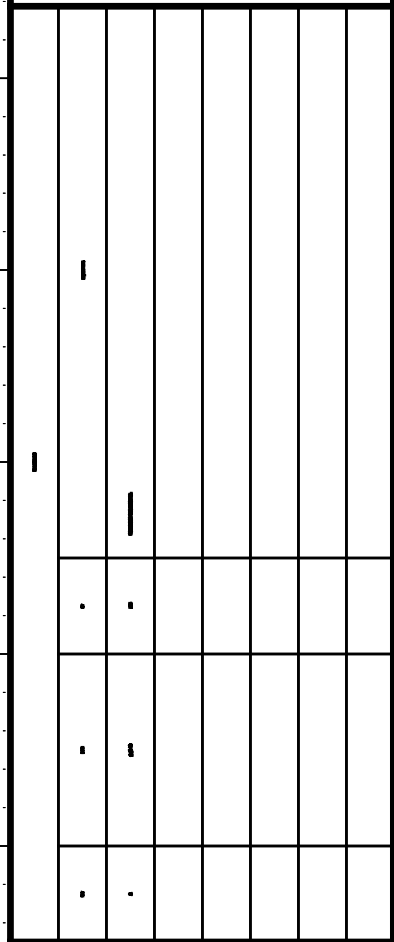
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CROSS SECTIONS
WEST ESSEX AVENUE

PROJECT/JOB NO	STP-5502(610)
MSD BASE MAP	23M, 23N
DATE PREPARED	03/21/2022
SHEET	43 OF 48

UNION OF THE STATES OF AMERICA

DATE _____

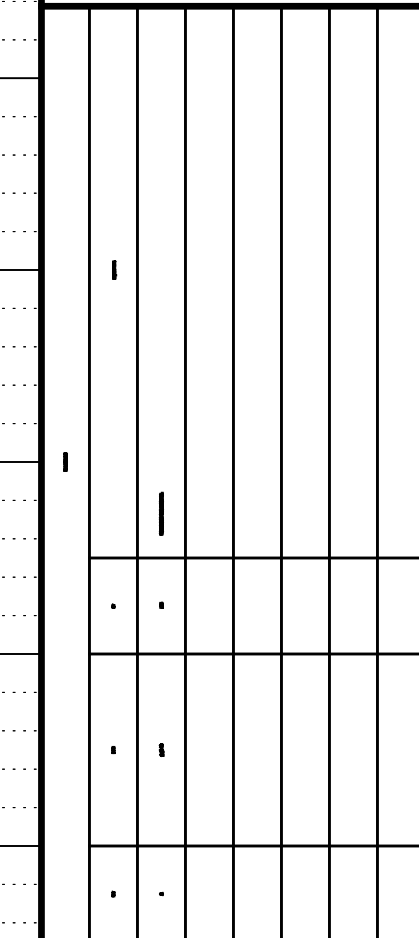
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WEST ESSEX AVENUE
RECONSTRUCTION

CROSS SECTIONS
WEST ESSEX AVENUE

PROJECT/JOB NO.	STP-5502(610)
MSD BASE MAP	23M, 23N
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UNCLASSIFIED PROJECT NO. 520-0140

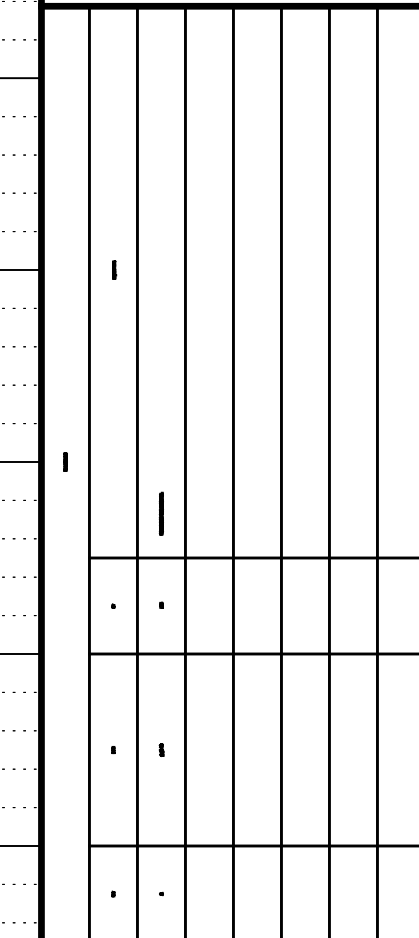
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PROJECT/JOB NO.	STP-5502(610)
MSD BASE MAP	23M, 23N
DATE PREPARED	03/21/2022
SHEET	45 OF 48

DATE _____

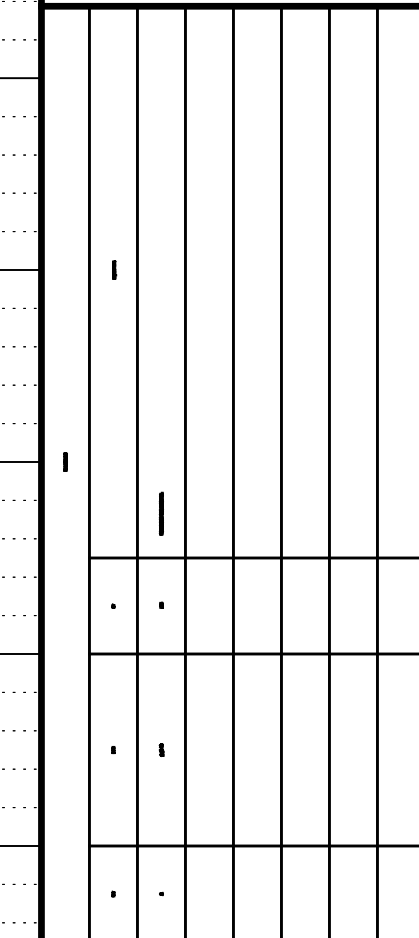
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PROJECT/JOB NO.	STP-5502(610)
MSD BASE MAP	23M, 23N
DATE PREPARED	03/21/2022
SHEET	46 OF 48

UNCLASSIFIED PROJECT NO. 520-0140

DATE _____

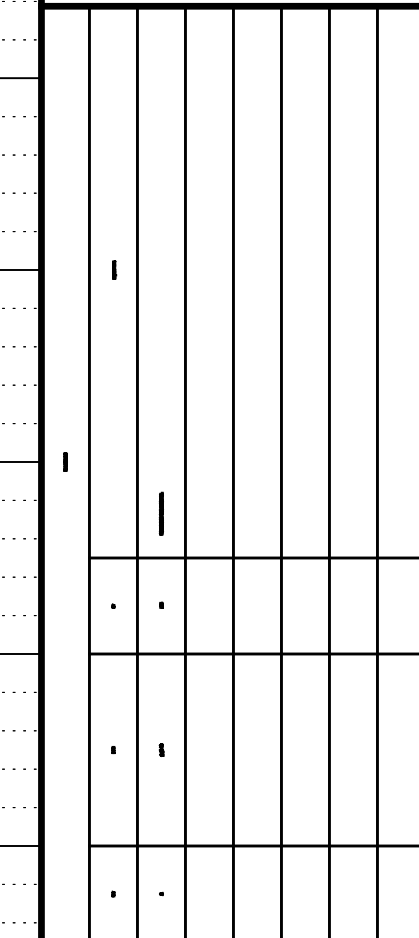
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WEST ESSEX AVENUE
RECONSTRUCTION

CROSS SECTIONS
WEST ESSEX AVENUE

PROJECT/JOB NO.	STP-5502(610)
MSD BASE MAP	23M, 23N
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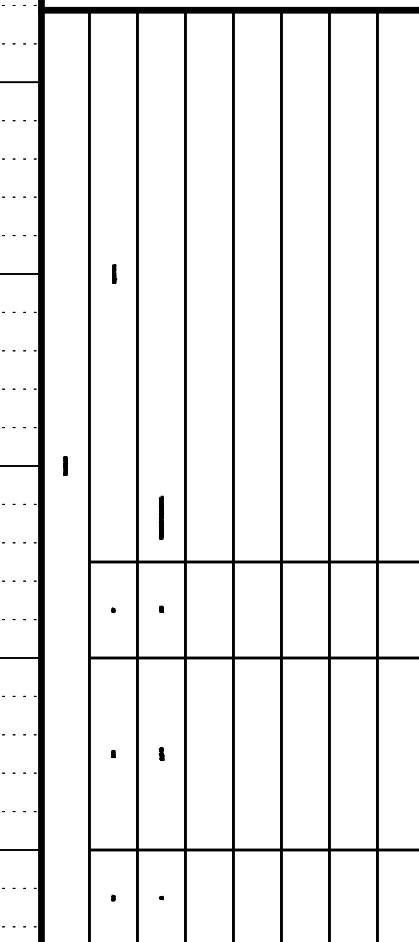
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WEST ESSEX AVENUE RECONSTRUCTION	CROSS SECTIONS WEST ESSEX AVENUE
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PROJECT/JOB NO.	STP-5502(610)
MSD BASE MAP	23M, 23N
DATE PREPARED	03/21/2022
SHEET	48 OF 48