

**DESIGN DESIGNATION**

FUNCTIONAL CLASSIFICATION

MINOR COLLECTOR

A.D.T. - 2021 = 4,365  
A.D.T. - 2046 = 5,215

**INDEX OF SHEETS**

DESCRIPTION	SHEET NUMBER
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**CONVENTIONAL SYMBOLS**

(USED IN PLANS)

	EXISTING	NEW
BUILDINGS AND STRUCTURES		
GUARD RAIL		
CONCRETE RIGHT-OF-WAY MARKER		
STEEL RIGHT-OF-WAY MARKER		
LOCATION SURVEY MARKER		
UTILITIES		
FIBER OPTICS		
OVERHEAD TELEPHONE		
UNDERGROUND TELEPHONE		
OVERHEAD POWER		
UNDERGROUND POWER		
GAS		
WATER		
MANHOLE		
FIRE HYDRANT		
WATER VALVE		
WATER METER		
DROP INLET		
DITCH BLOCK		
GROUND MOUNTED SIGN		
LIGHT POLE		
H-FRAME POWER POLE		
TELEPHONE PEDESTAL		
FENCE		
CHAIN LINK		
WOVEN WIRE		
GATE POST		
BENCHMARK		

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

CITY OF KIRKWOOD  
139 S. KIRKWOOD ROAD  
KIRKWOOD, MISSOURI 63122  
314-822-5800

APPROVED BY:

DIRECTOR OF PUBLIC WORKS

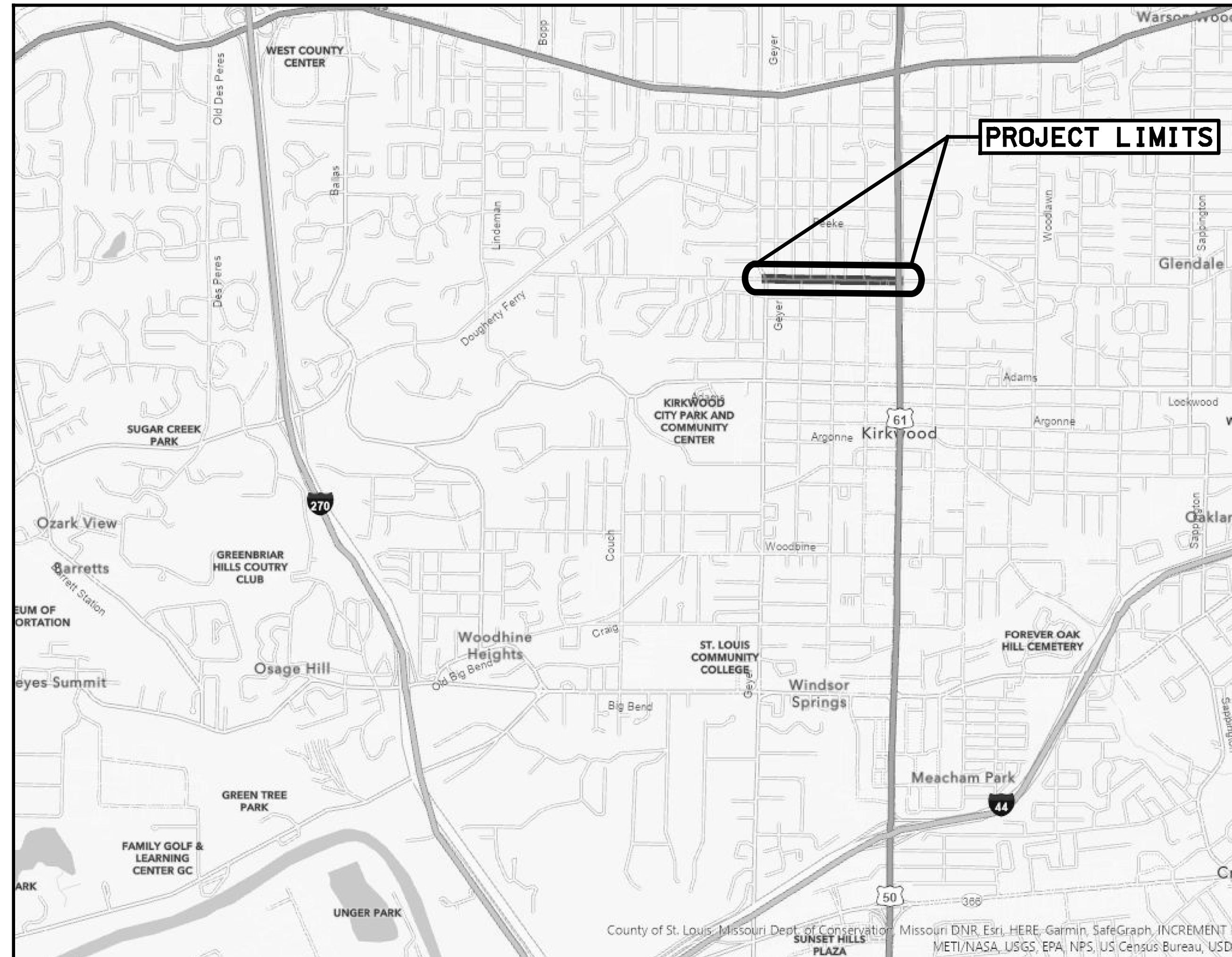
DATE

**WEST ESSEX AVENUE  
RECONSTRUCTION**

KIRKWOOD, MISSOURI

FEDERAL PROJECT NO. STP-5502 (610)  
TIP # 6953-22

**PRELIMINARY PLANS**



N.T.S

**PROJECT LIMITS**

BEGINNING OF PROJECT	STA 0+31.42
END OF PROJECT	STA 25+65.00
APPARENT LENGTH	2,533.58 FEET
EQUATIONS AND EXCEPTIONS	N/A
TOTAL CORRECTIONS	N/A
NET LENGTH OF PROJECT	2,533.58 FEET

**PRELIMINARY  
PLANS  
NOT FOR  
CONSTRUCTION**

**DISCLAIMER OF  
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REV	DATE	BY	DESCRIPTION

**LOCHMUELLER GROUP**  
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MISSOURI STATE ENGINEERING CORPORATION  
CERTIFICATE/LICENSE NO. 2002011852

WEST ESSEX AVENUE  
RECONSTRUCTION  
COVER SHEET

PROJECT/JOB NO.	STP-5502 (610)
MSD PROJECT NO.	23MSD-00141
MSD BASE MAP	23M, 23N
DATE PREPARED	07/17/2023
SHEET	1 OF 48

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED. LOCHMUELLER PROJECT NO. 520-0140

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.

STANDARD SEWER CONSTRUCTION:

ALL STORM AND SANITARY SEWER STRUCTURES AND APPURTENANCES TO BE DEDICATED TO MSD, OR TO BE PRIVATE UNDER MSD INSPECTION, SHALL CONFORM TO THE METROPOLITAN ST. LOUIS SEWER DISTRICT, STANDARD CONSTRUCTION SPECIFICATIONS FOR SEWERS AND DRAINAGE FACILITIES, 2009. THAT WILL INCLUDE STANDARD DETAILS SHOWN THEREIN, AND SHALL INCLUDE ALL SUBSEQUENT CHANGES MADE THERETO.

SOME RECENT CHANGES CONCERN PIPE FIELD TESTING AND PERFORMANCE, AND INCLUDE THE FOLLOWING:

PART 2 MATERIALS OF CONSTRUCTION

HIGH DENSITY POLYETHYLENE (HDPE) PIPE IS NOT ALLOWED FOR GRAVITY SEWERS FOR STORM, COMBINED, OR SANITARY SEWERS THAT ARE "PUBLIC" OR "PRIVATE UNDER MSD INSPECTION".

POLYPROPYLENE (PP) PIPE IS ALLOWED AS FOLLOWS FOR GRAVITY SEWERS THAT ARE "PUBLIC" OR "PRIVATE UNDER MSD INSPECTION":

1. FOR USE IN SANITARY AND COMBINED SEWERS 12 TO 60 INCHES IN DIAMETER IT SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2764 "STANDARD SPECIFICATION FOR 6 TO 60 IN. POLYPROPYLENE (PP) CORRUGATED DOUBLE AND TRIPLE WALL PIPE AND FITTINGS FOR NON-PRESSURE SANITARY SEWER APPLICATIONS."
2. FOR USE IN STORM SEWERS 12 TO 24 INCHES IN DIAMETER IT SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2881 "STANDARD SPECIFICATION FOR 12 TO 60 IN. POLYPROPYLENE (PP) DUAL WALL PIPE AND FITTINGS FOR NON-PRESSURE STORM SEWER APPLICATIONS;" OR
3. FOR USE IN STORM SEWERS 12 TO 60 INCHES IN DIAMETER IT SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2764 "STANDARD SPECIFICATION FOR 6 TO 60 IN. POLYPROPYLENE (PP) CORRUGATED DOUBLE AND TRIPLE WALL PIPE AND FITTINGS FOR NON-PRESSURE SANITARY SEWER APPLICATIONS."

IF REINFORCED CONCRETE PIPE IS USED FOR SANITARY OR COMBINED SEWERS LARGER THAN 27", ALL PIPE AND JOINTS SHALL CONFORM TO ASTM C 361. IN ADDITION, IF THE DIAMETER IS LARGER THAN 48", THE JOINT TYPE MUST INCLUDE A GASKET THAT IS CONFINED IN A GROOVE IN THE SPIGOT OF THE PIPE.

PART 4 - PIPE SEWER CONSTRUCTION

SECTION B, PIPE FIELD TESTS, PARAGRAPH 2, REACH INTEGRITY TESTING - DELETE THE FIRST SENTENCE AND THE FOLLOWING REPLACEMENT APPLIES:

ALL SANITARY AND COMBINED SEWERS SHALL SUSTAIN A MAXIMUM LEAKAGE LIMIT OF 100 GALLONS/INCH OF PIPE DIAMETER/MILE OF LINE/DAY, AS REQUIRED BY THE MISSOURI DEPARTMENT OF NATURAL RESOURCES SPECIFICATIONS.

SECTION B, PIPE FIELD TESTS, PARAGRAPH 2, REACH INTEGRITY TESTING, SUBPARAGRAPH C, INFILTRATION/EXFILTRATION TESTING - DELETE THE SIXTH SENTENCE, CONCERNING LEAKAGE LIMITS, AND THE FOLLOWING REPLACEMENT APPLIES:

THE MEASUREMENT OF LEAKAGE SHALL NOT EXCEED 100 GALLONS/INCH OF PIPE DIAMETER/MILE OF LINE/DAY, AS REQUIRED BY THE MISSOURI DEPARTMENT OF NATURAL RESOURCES SPECIFICATIONS.

SECTION B, PIPE FIELD TESTS, PARAGRAPH 4, MANHOLE TESTING, SUBPARAGRAPH A, VACUUM TESTING - AFTER THE FIRST SENTENCE, THE FOLLOWING ADDITION APPLIES:

THE VACUUM TEST MUST BE PERFORMED PRIOR TO BACKFILLING AROUND THE MANHOLE UNLESS THE CONTRACTOR PROVIDES DOCUMENTATION FROM THE PRECAST MANHOLE MANUFACTURER STATING THAT THE MANHOLE MAY BE VACUUM TESTED AFTER BACKFILLING HAS TAKEN PLACE. THE CONTRACTOR MUST SUBMIT THIS DOCUMENTATION PRIOR TO BACKFILLING AROUND ANY MANHOLE.

SECTION B, PIPE FIELD TESTS, PARAGRAPH 4, MANHOLE TESTING, SUBPARAGRAPH B, EXFILTRATION TESTING - DELETE THE SECOND SENTENCE, CONCERNING LEAKAGE LIMITS, AND THE FOLLOWING ADDITION APPLIES:

FOR EXFILTRATION TESTING, THE ALLOWABLE LEAKAGE LIMIT IS 100 GALLONS/INCH OF PIPE DIAMETER/MILE OF LINE/DAY WHEN THE AVERAGE HEAD ON THE TEST SECTION IS THREE FEET (3') OR LESS.

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 MISSOURI STATE ENGINEERING CORPORATION  
 CERTIFICATE/LICENSE NO. 2002011852

**WEST ESSEX AVENUE  
RECONSTRUCTION**  
**GENERAL NOTES  
(SHEET 1 OF 1)**

PROJECT/JOB NO. <b>STP-5502(610)</b>
MSD PROJECT NO. <b>23MSD-00141</b>
MSD BASE MAP <b>23M, 23N</b>
DATE PREPARED <b>07/17/2023</b>
SHEET <b>2 OF 48</b>

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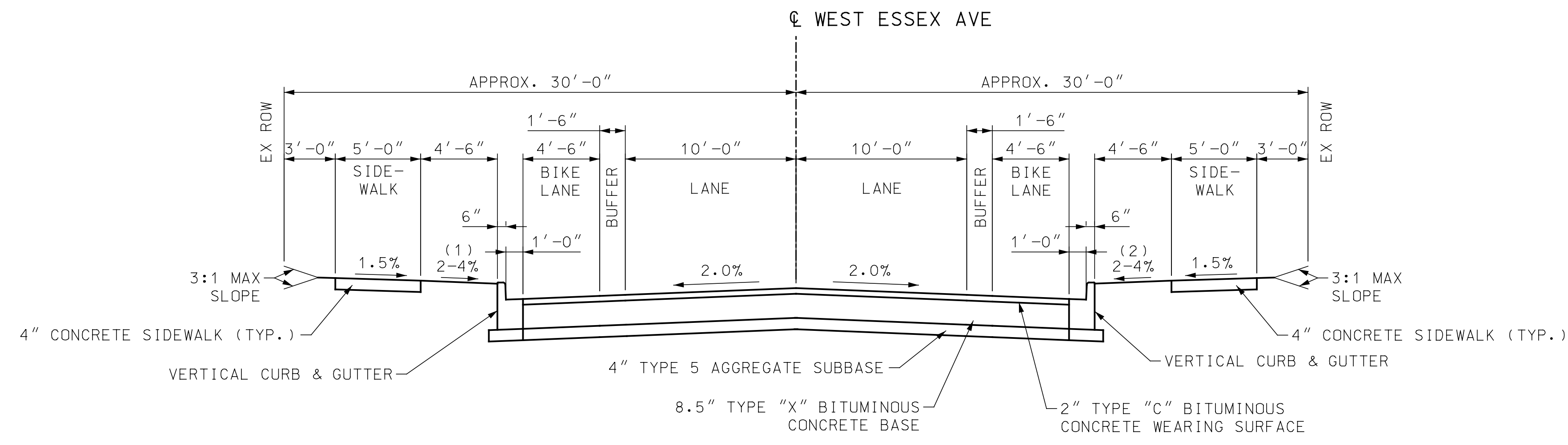
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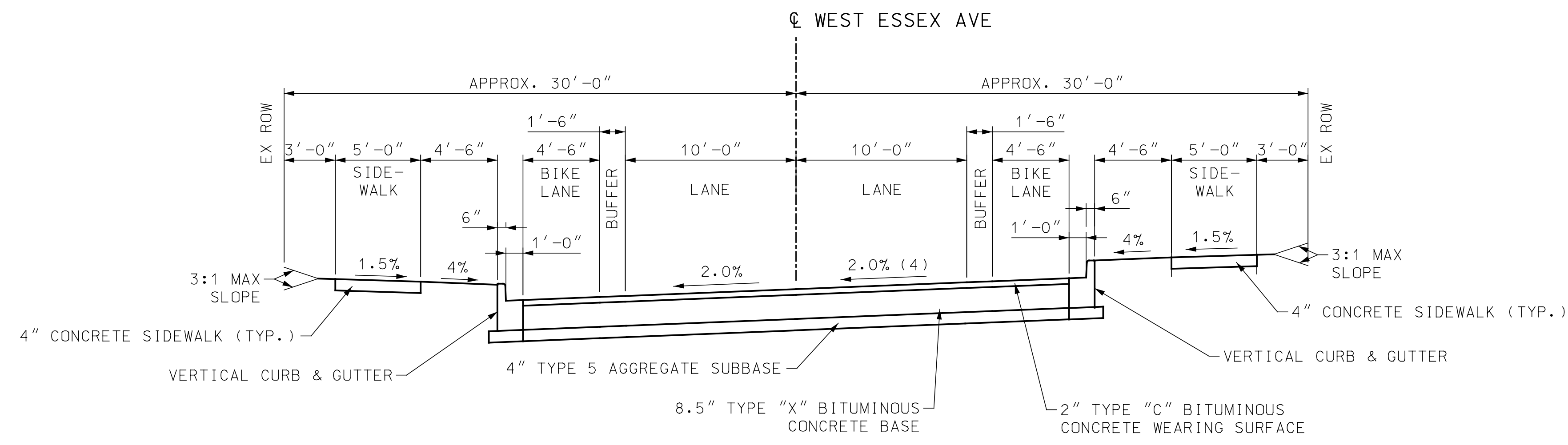
**WEST ESSEX AVENUE  
RECONSTRUCTION**  
**TYPICAL SECTIONS  
SHEET 1 OF 5**

PROJECT/JOB NO. <b>STP-5502(610)</b>
MSD PROJECT NO. <b>23MSD-00141</b>
MSD BASE MAP <b>23M, 23N</b>
DATE PREPARED <b>07/17/2023</b>
SHEET <b>3 OF 48</b>

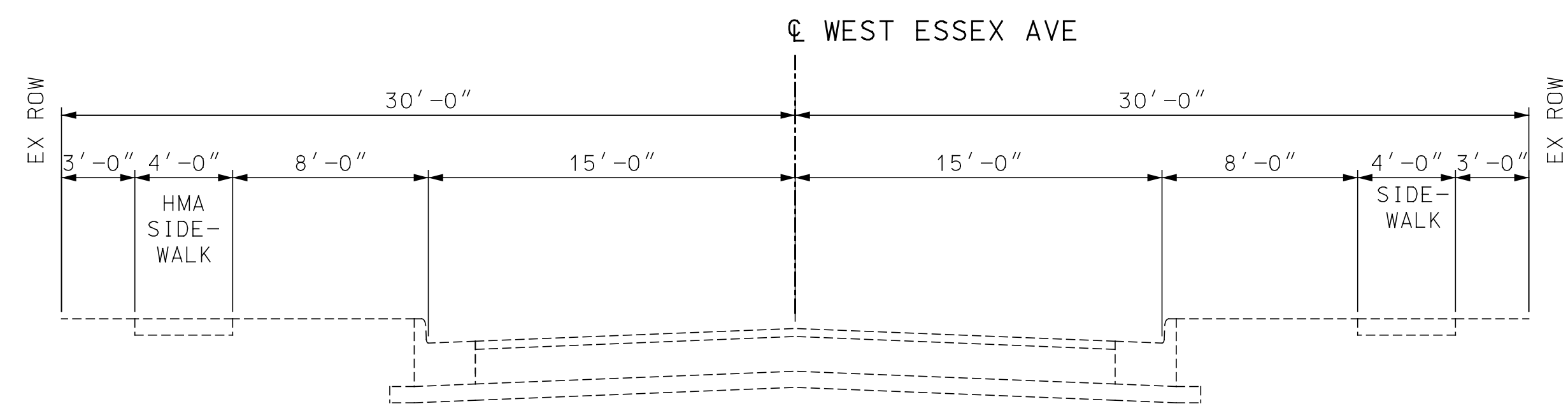
- (1) 4% STA 5+50.00 TO STA 18+41.15
- 2% STA 18+93.60 TO STA 25+65.00
- (2) 4% STA 5+50.00 TO STA 19+43.33
- 2% STA 19+77.20 TO STA 25+65.00



**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



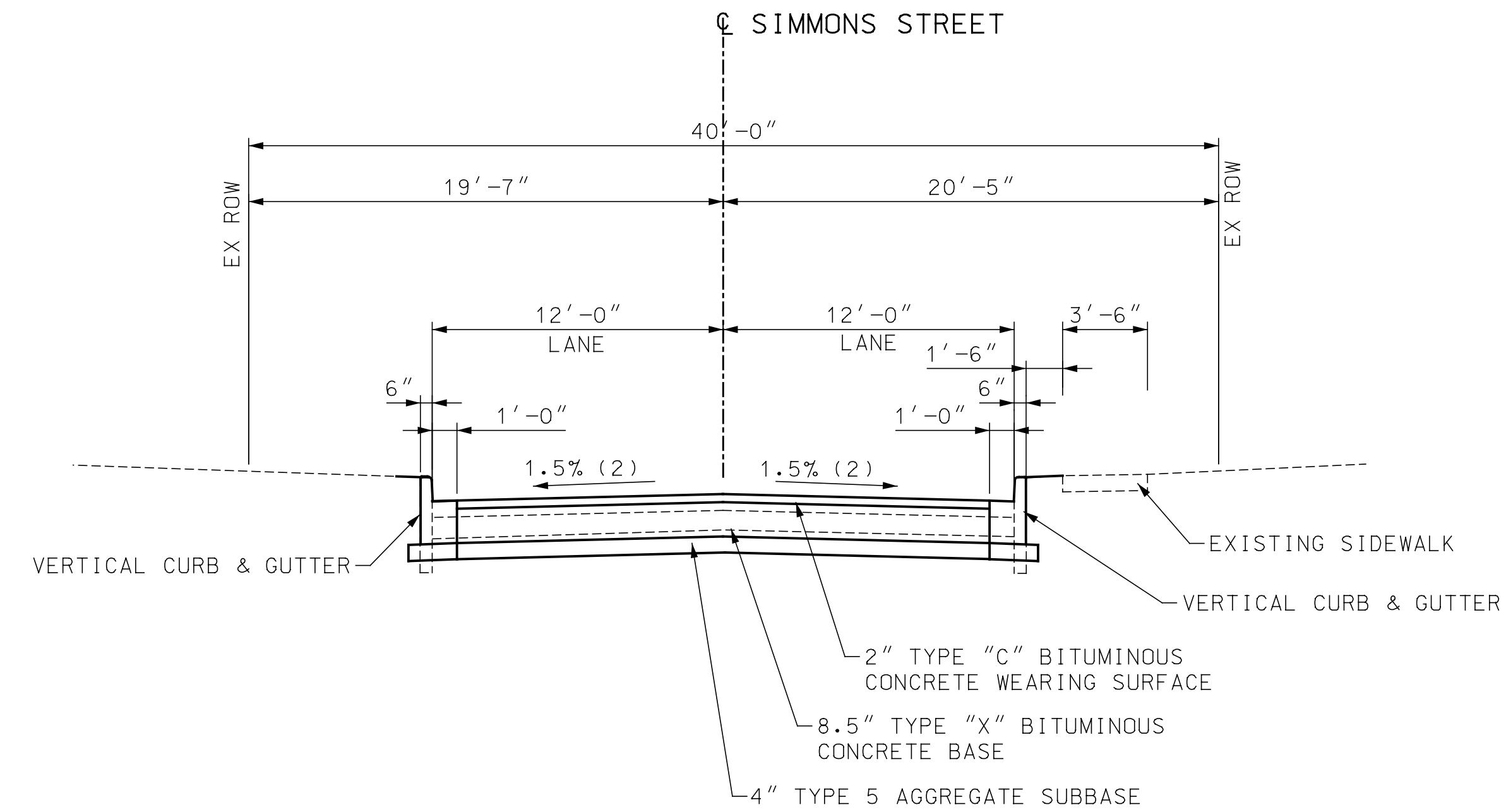
**EXISTING TYPICAL SECTION  
WEST ESSEX AVENUE**  
0+05.00 TO 25+65.00

- NOTES:**
- SIDEWALK SHALL BE CONSTRUCTED TO PROVIDE A MINIMUM 4' WIDE ACCESSIBLE ROUTE IN ACCORDANCE WITH CURRENT ADA REQUIREMENTS.
  - SLOPES MAY VARY AT INTERSECTIONS. SEE INTERSECTION DETAILS FOR LOCATION AND LENGTH OF TRANSITIONS.
  - SEE PLAN FOR SIDEWALK OFFSET DISTANCE.
  - VARIABLES 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.

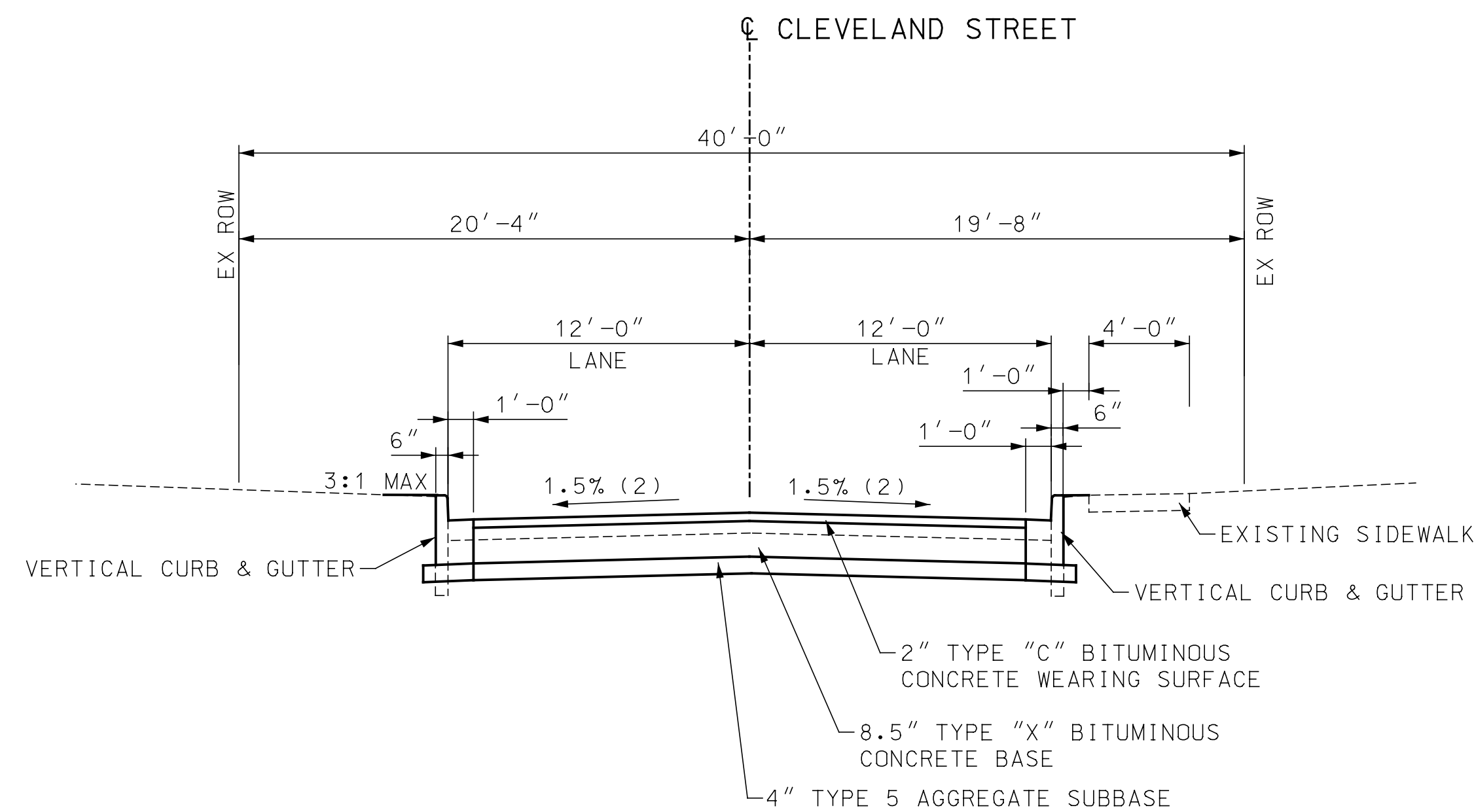
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED. LOCHMUELLER PROJECT NO. 520-0140

NOTES:

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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.



**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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**WEST ESSEX AVENUE  
RECONSTRUCTION**

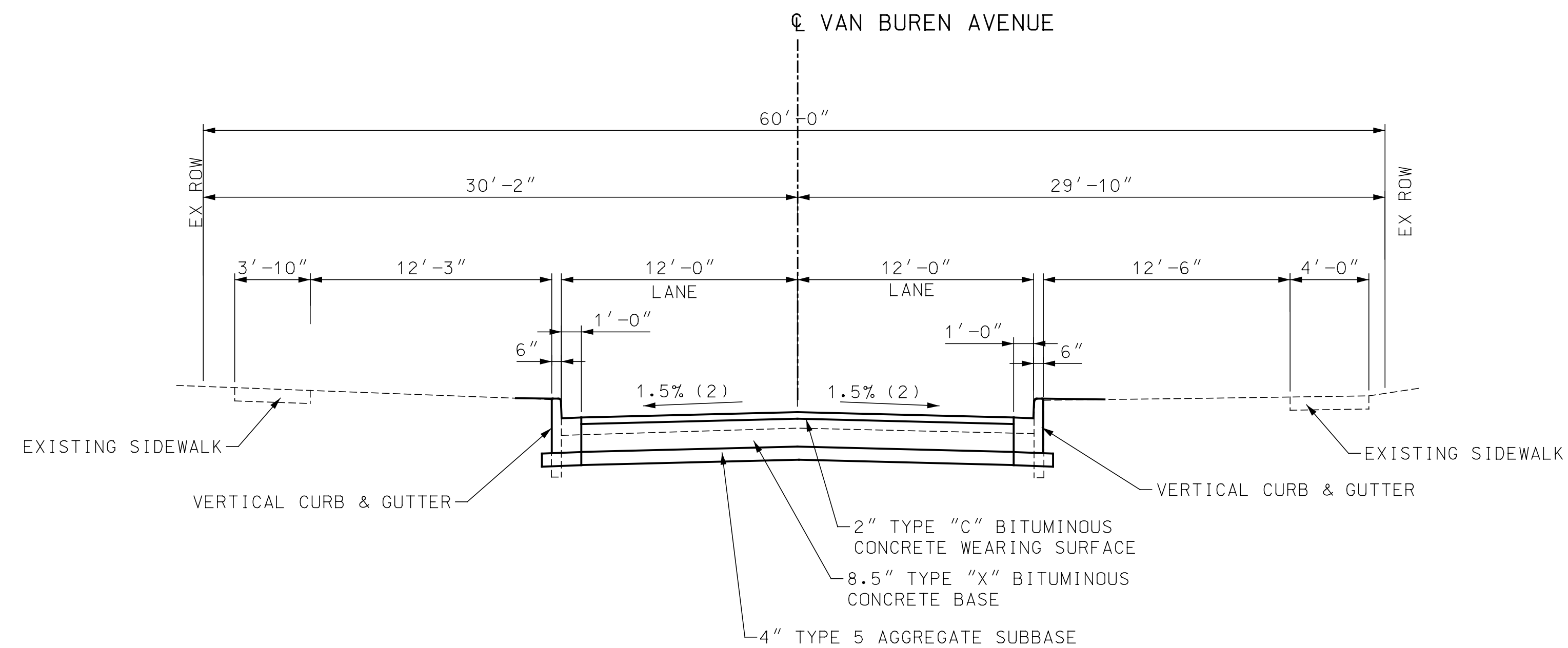
**TYPICAL SECTIONS  
SHEET 2 OF 5**

PROJECT/JOB NO. <b>STP-5502(610)</b>
MSD PROJECT NO. <b>23MSD-00141</b>
MSD BASE MAP <b>23M, 23N</b>
DATE PREPARED <b>07/17/2023</b>
SHEET <b>4 OF 48</b>

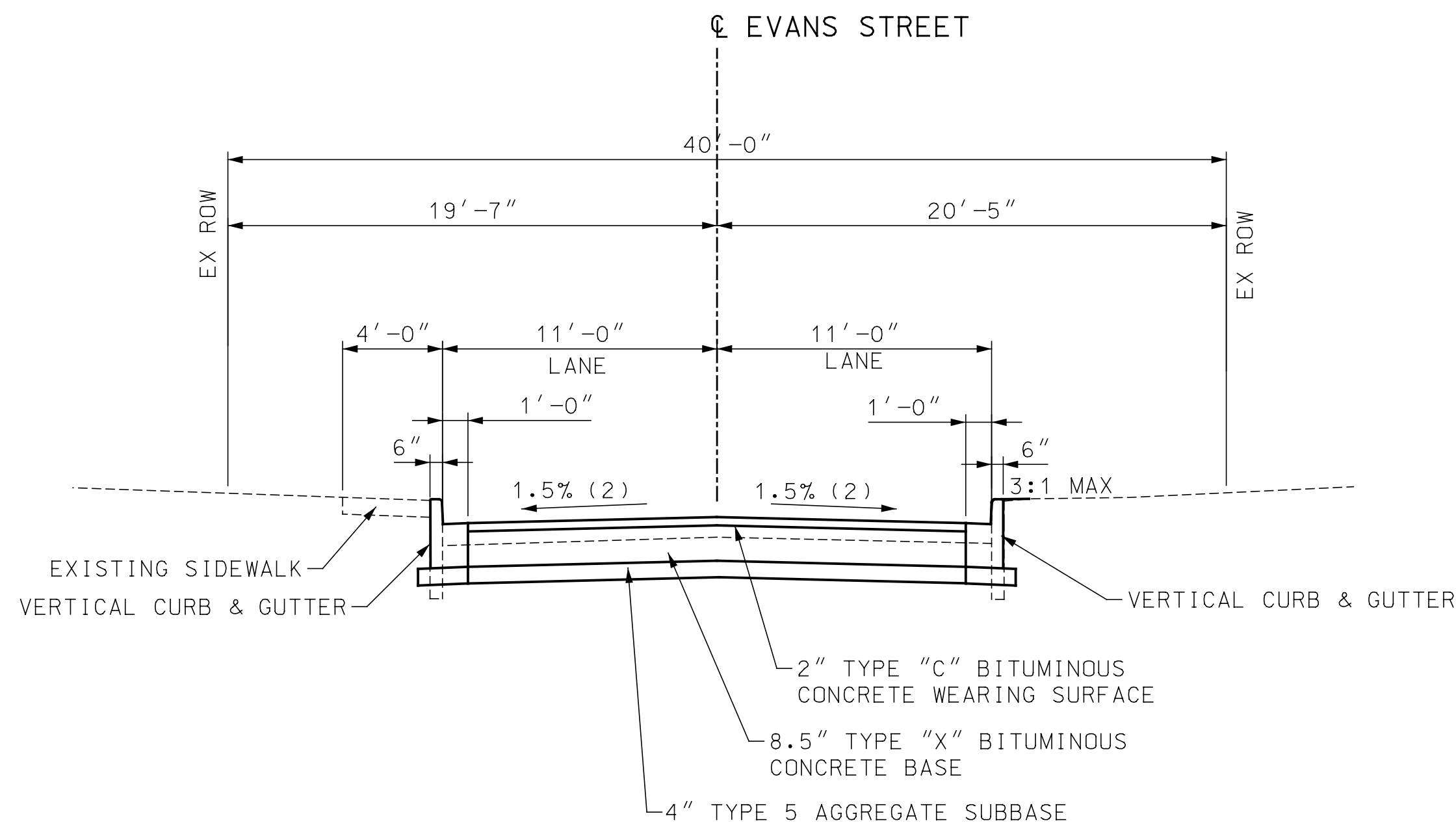
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NOTES:

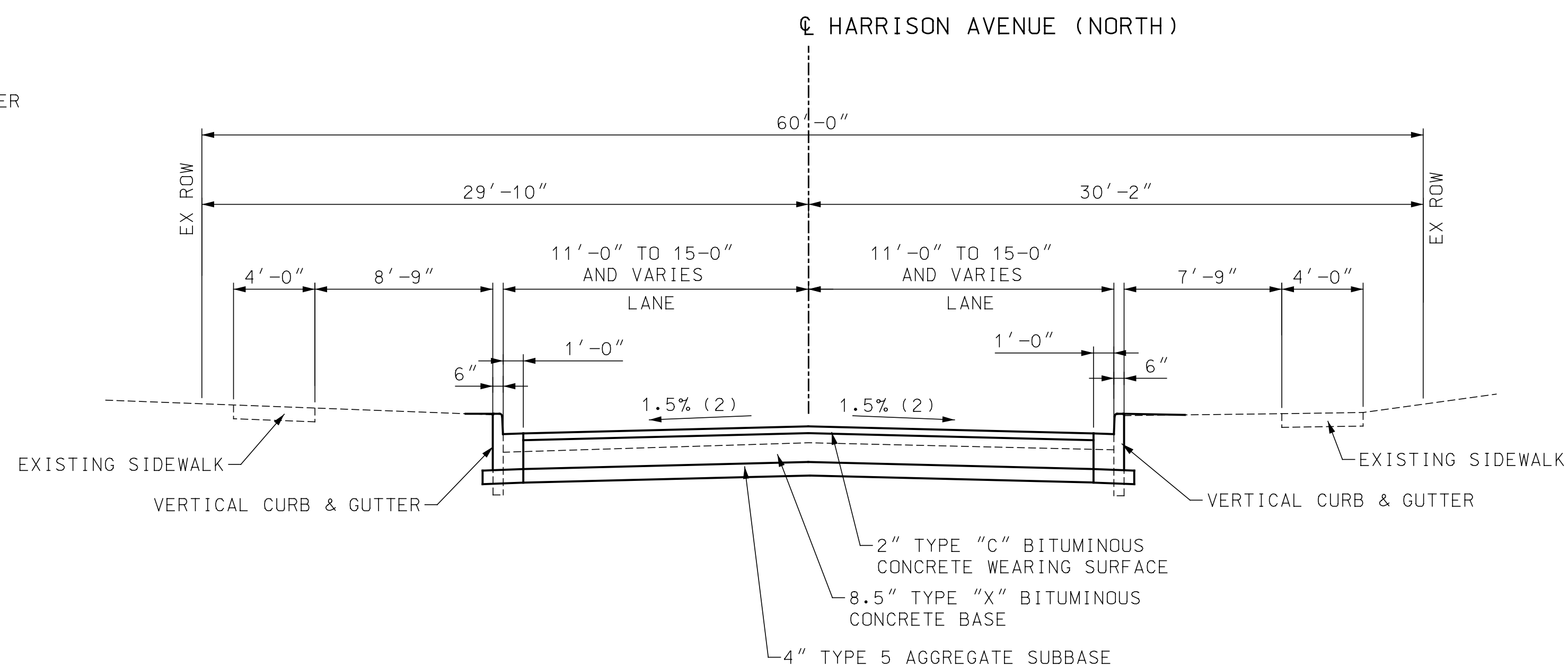
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3. SEE PLAN FOR SIDEWALK OFFSET DISTANCE.
4. VARIES FROM -2.0% AT STA 1+50.00 TO 2.0% AT STA 2+00.00, 2.0% FROM STA 2+00.00 TO STA 5+00.00, VARIES FROM 2.0% AT STA 5+00.00 TO -2.0% AT STA 5+50.00.



**VAN BUREN AVENUE**  
STA. 59+28.00 TO STA. 59+82.97



**EVANS STREET**  
STA. 70+17.00 TO STA. 70+55.00



**HARRISON AVENUE (NORTH)**  
STA. 80+17.05 TO STA 80+48.00

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**WEST ESSEX AVENUE  
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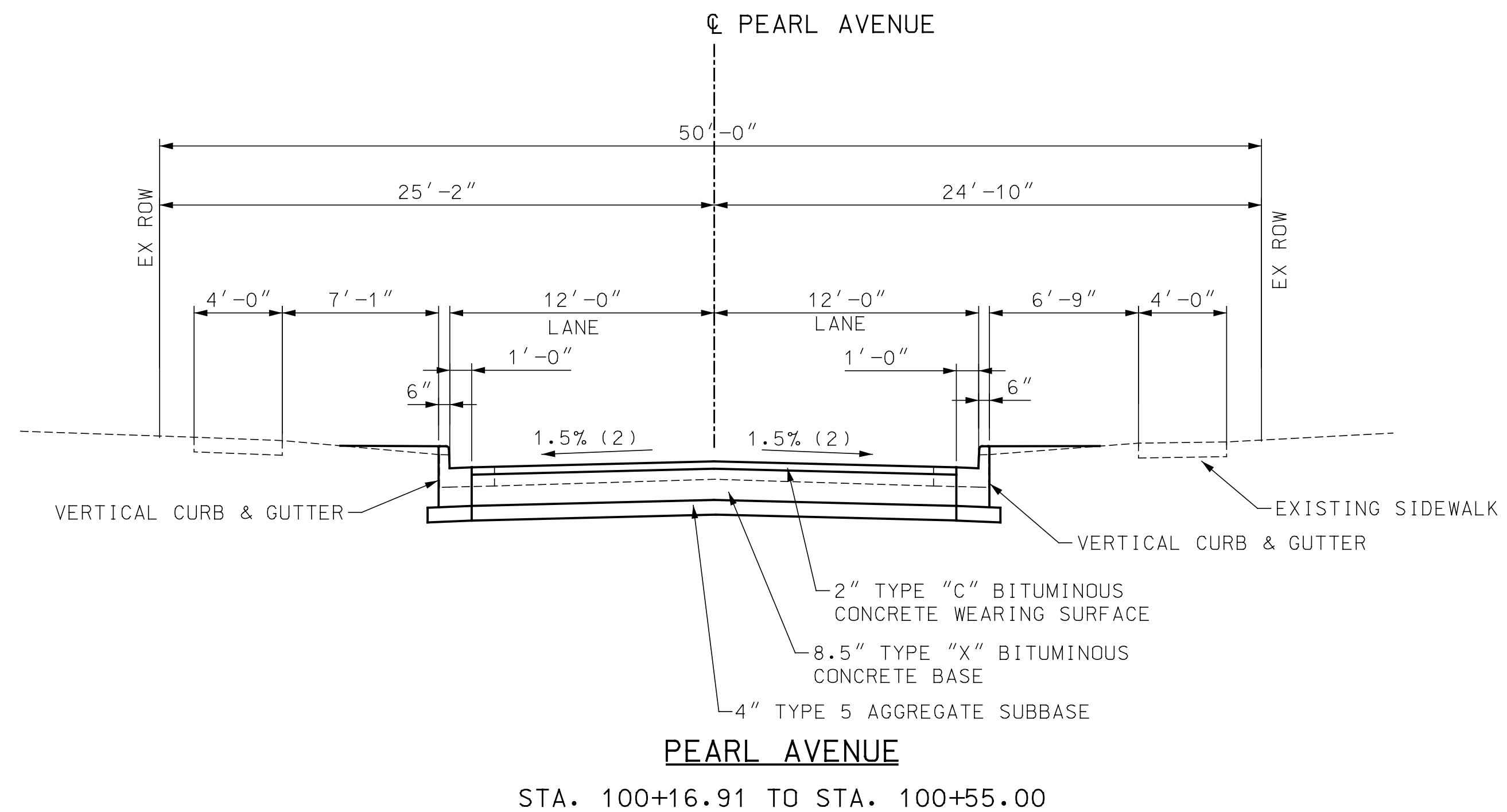
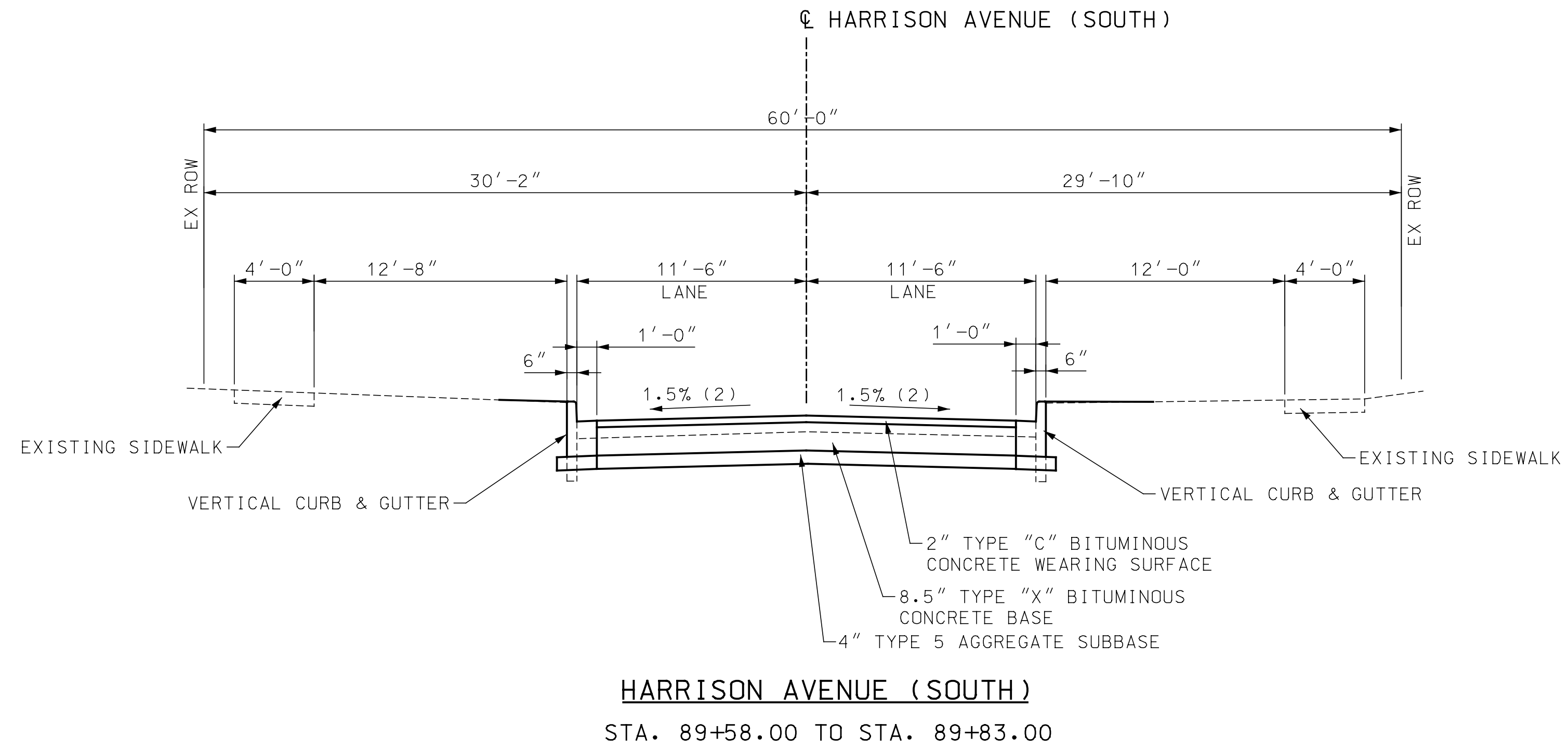
**TYPICAL SECTIONS  
SHEET 3 OF 5**

PROJECT/JOB NO. <b>STP-5502(610)</b>
MSD PROJECT NO. <b>23MSD-00141</b>
MSD BASE MAP <b>23M, 23N</b>
DATE PREPARED <b>07/17/2023</b>
SHEET <b>5 OF 48</b>

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NOTES:

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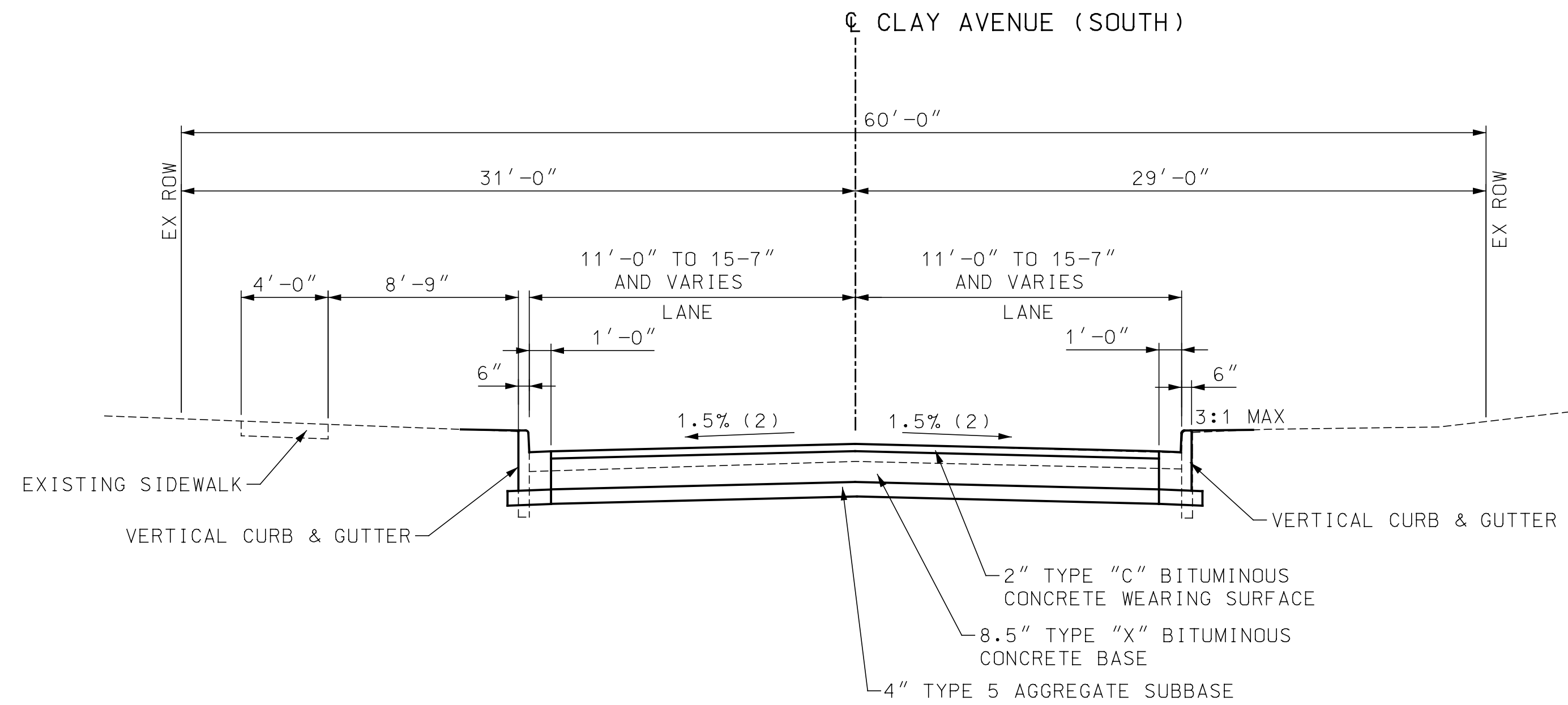
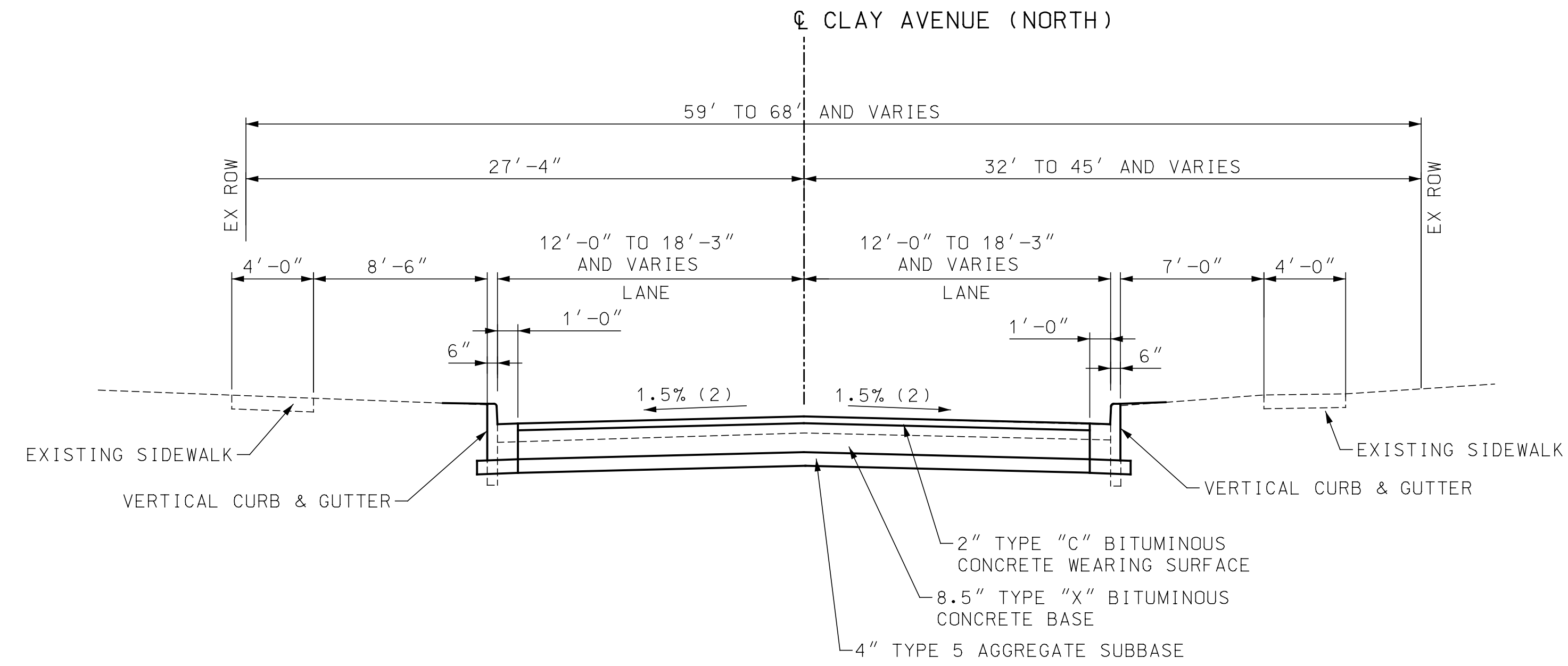
**TYPICAL SECTIONS  
SHEET 4 OF 5**

PROJECT/JOB NO.	STP-5502(610)
MSD PROJECT NO.	23MSD-00141
MSD BASE MAP	23M, 23N
DATE PREPARED	07/17/2023
SHEET	6 OF 48

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NOTES:

1. SIDEWALK SHALL BE CONSTRUCTED TO PROVIDE A MINIMUM 4' WIDE ACCESSIBLE ROUTE IN ACCORDANCE WITH CURRENT ADA REQUIREMENTS.
2. SLOPES MAY VARY AT INTERSECTIONS. SEE INTERSECTION DETAILS FOR LOCATION AND LENGTH OF TRANSITIONS.
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 5 OF 5

PROJECT/JOB NO. <b>STP-5502(610)</b>
MSD PROJECT NO. <b>23MSD-00141</b>
MSD BASE MAP <b>23M, 23N</b>
DATE PREPARED <b>07/17/2023</b>
SHEET <b>7 OF 48</b>

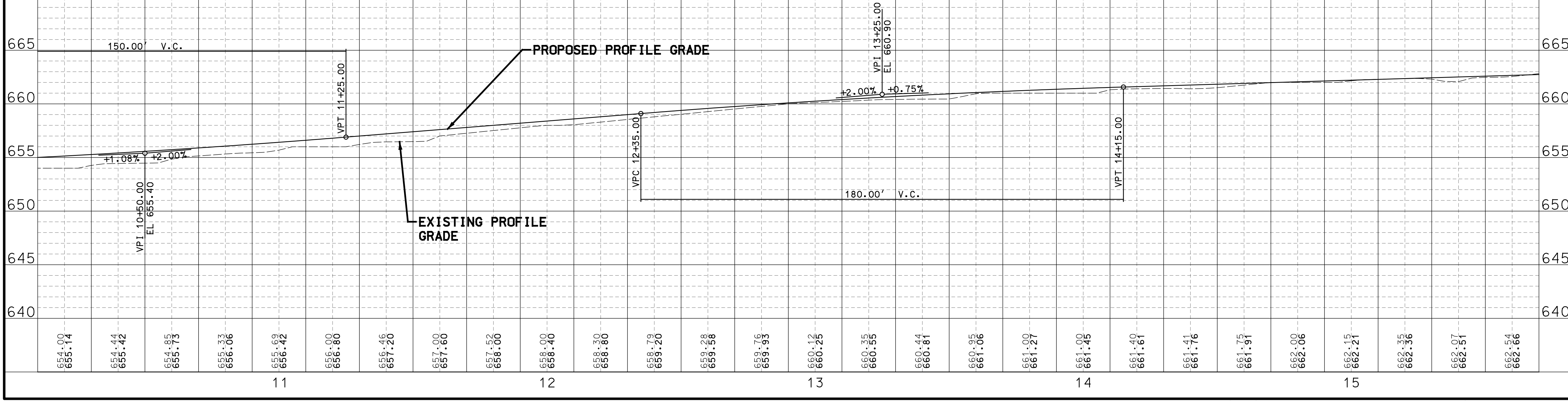
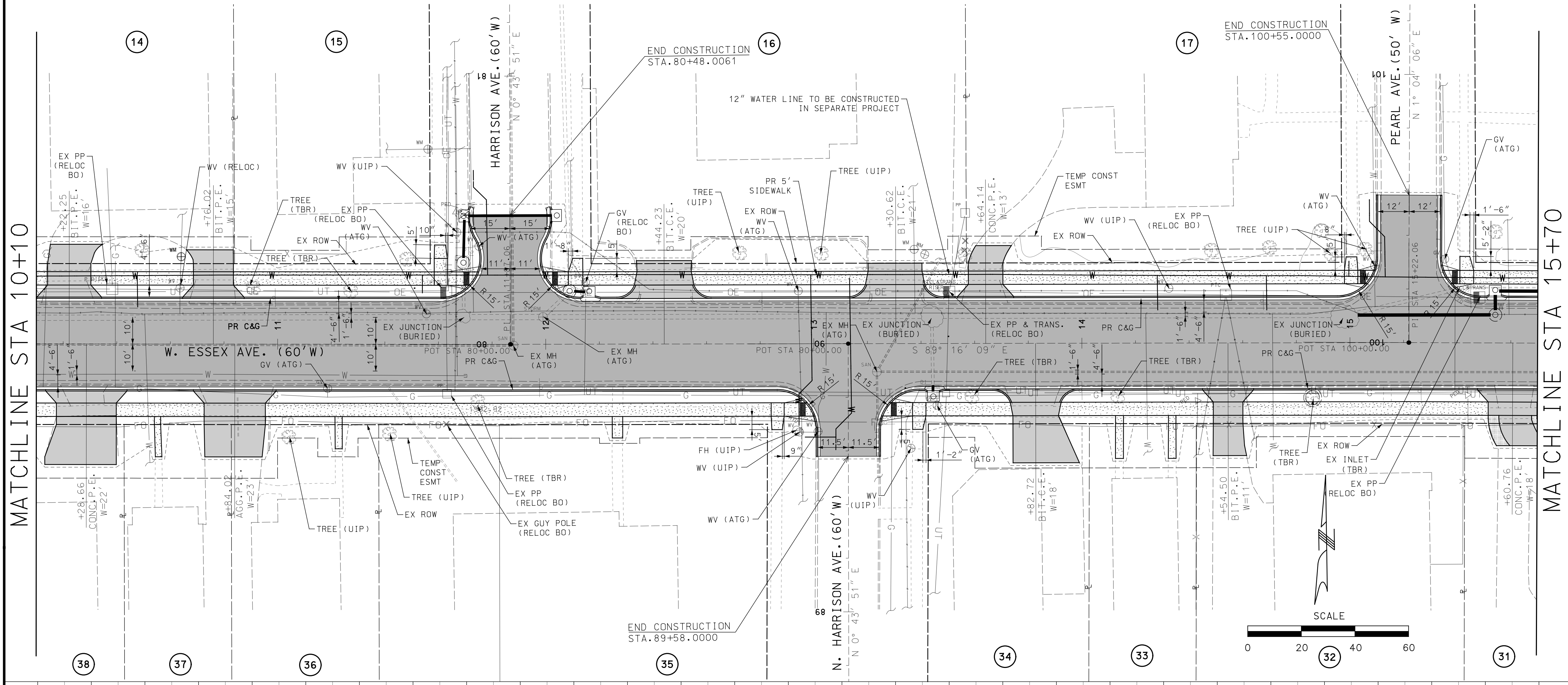






MATCHLINE STA 10+10

MATCHLINE STA 15+70



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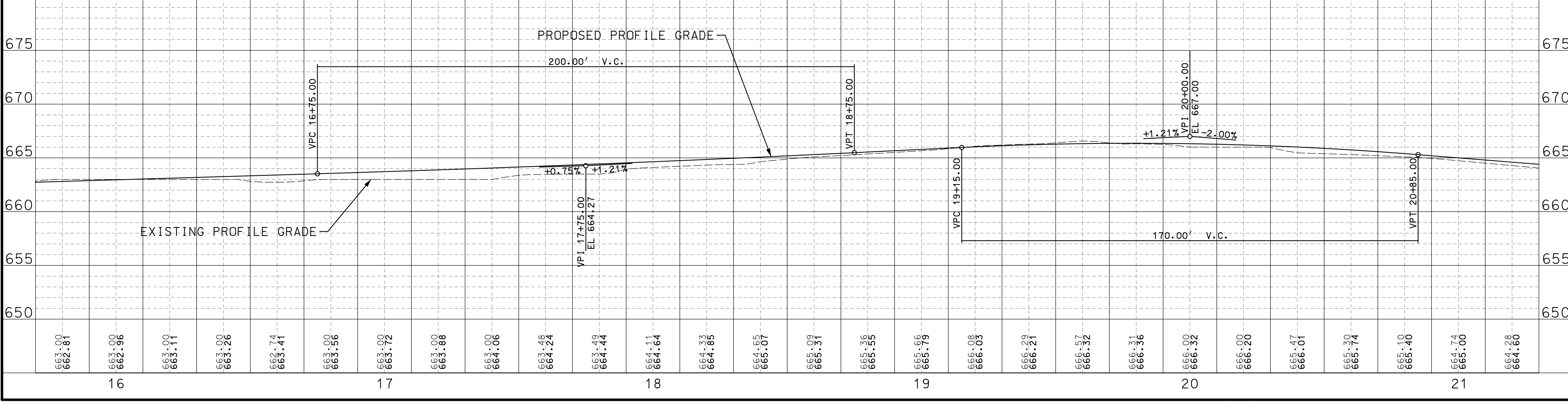
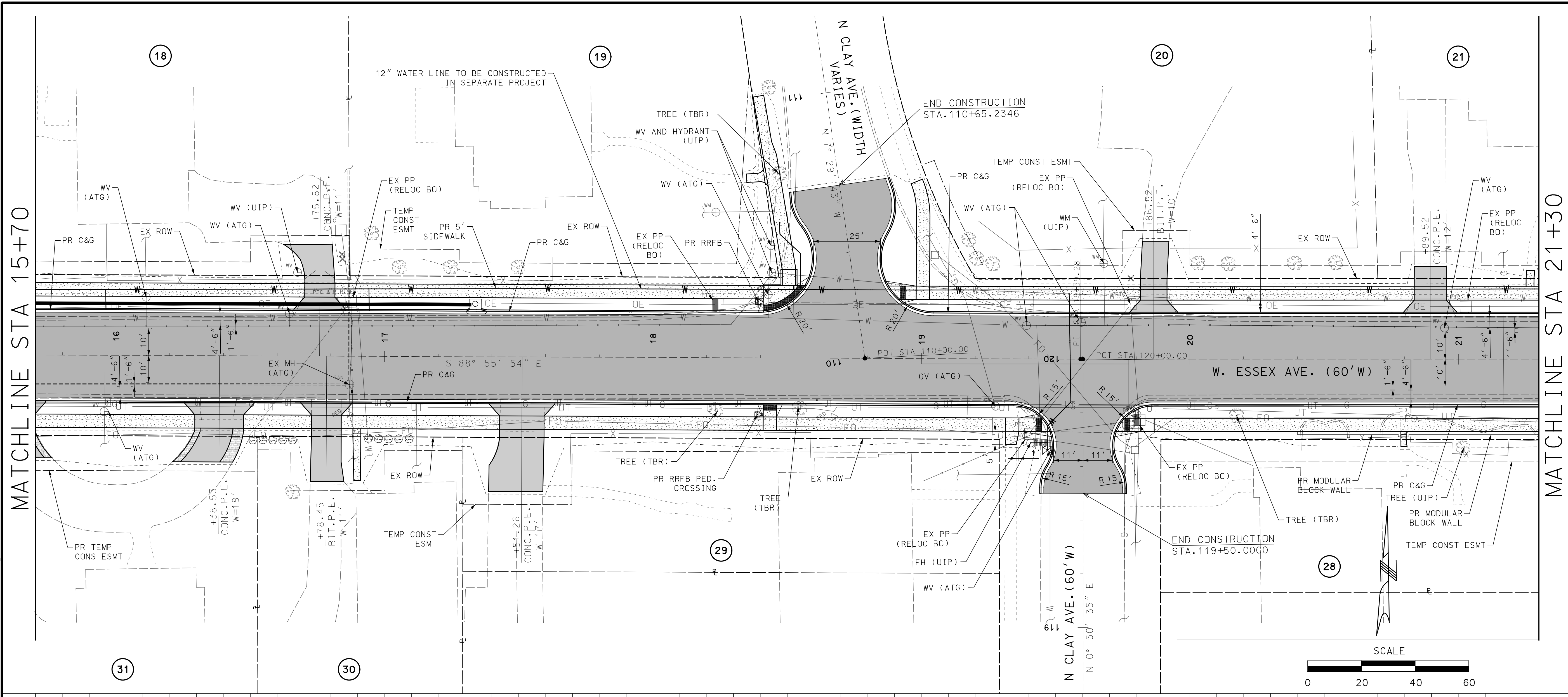
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RECONSTRUCTION**  
**PLAN AND PROFILE  
SHEET 3 OF 5**

PROJECT/JOB NO.  
**STP-5502(610)**  
MSD PROJECT NO.  
**23MSD-00141**  
MSD BASE MAP  
**23M.23N**  
DATE PREPARED  
**07/17/2023**  
SHEET  
**10 OF 48**

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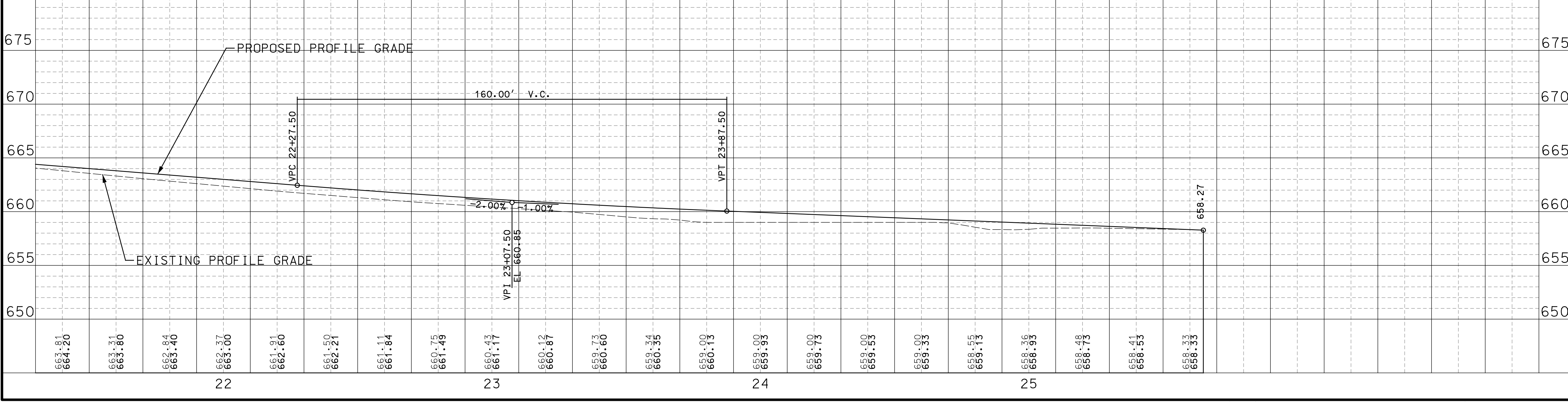
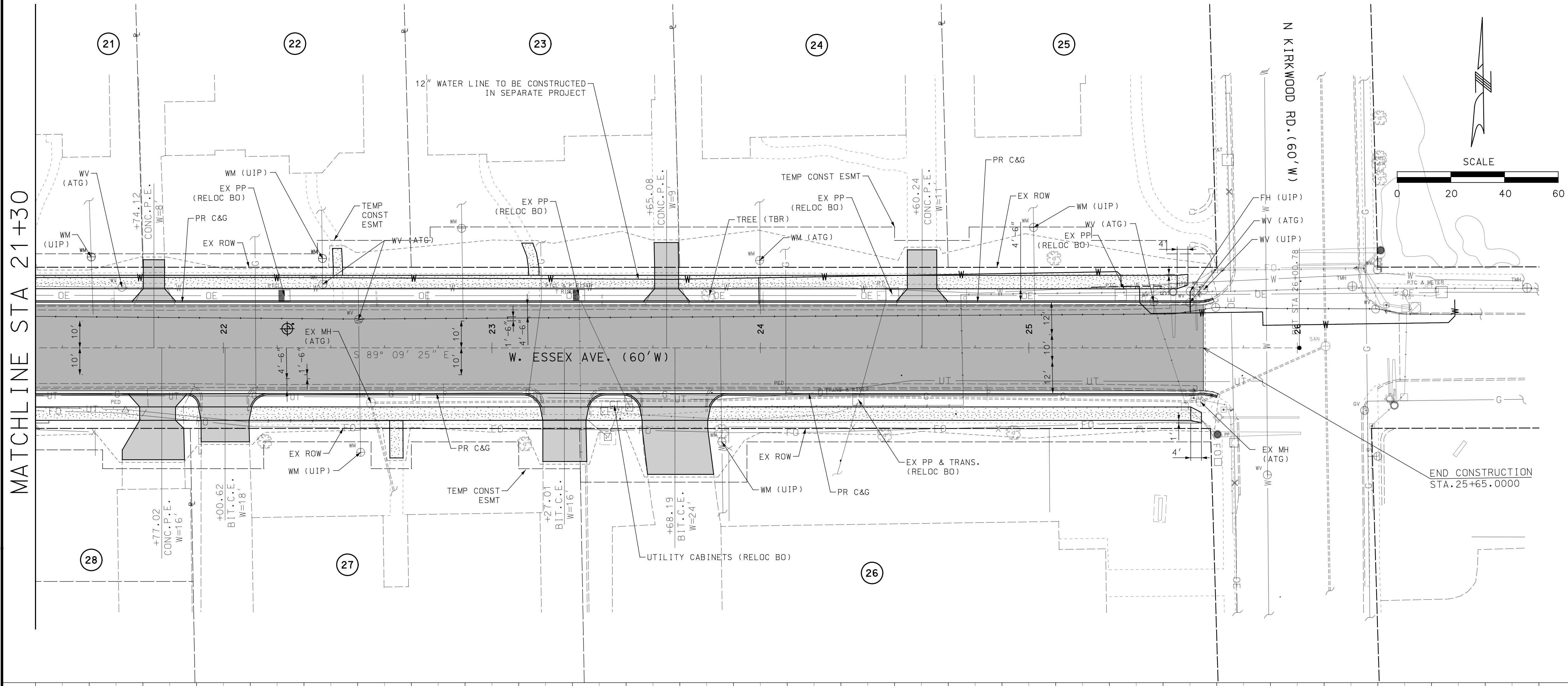
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RECONSTRUCTION  
PLAN AND PROFILE  
SHEET 4 OF 5**

PROJECT/JOB NO. <b>STP-5502(610)</b>
MSD PROJECT NO. <b>23MSD-00141</b>
MSD BASE MAP <b>23M.23N</b>
DATE PREPARED <b>07/17/2023</b>
SHEET <b>11 OF 48</b>

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MATCHLINE STA 21+30



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RECONSTRUCTION  
PLAN AND PROFILE  
SHEET 5 OF 5

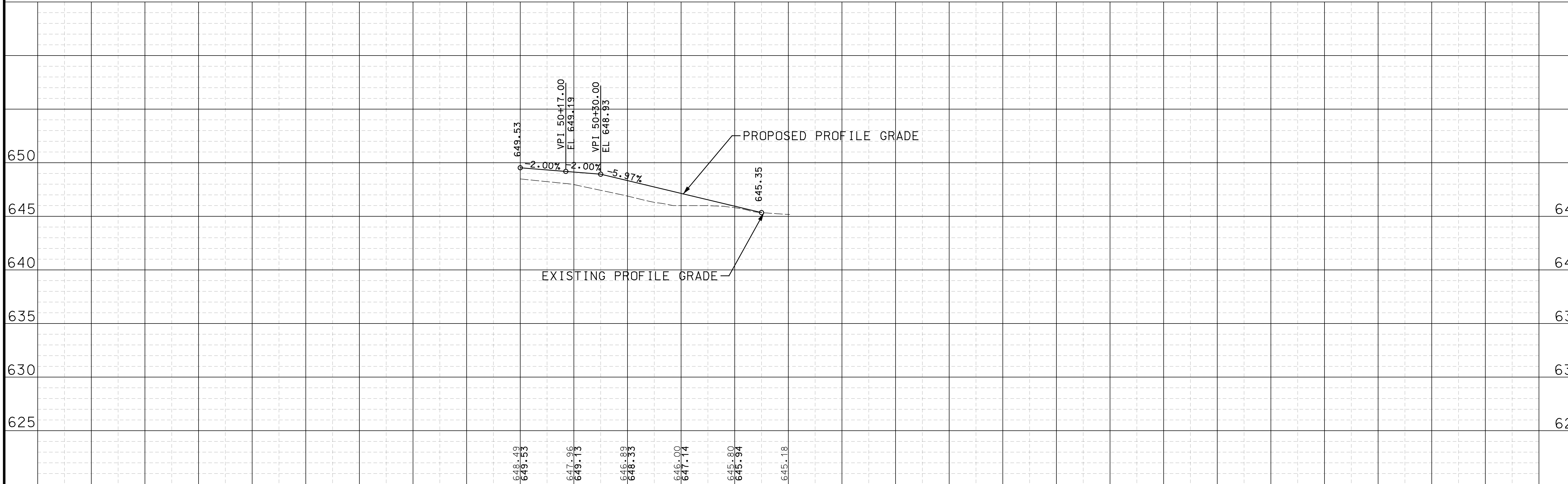
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MSD PROJECT NO. <b>23MSD-00141</b>
MSD BASE MAP <b>23M.23N</b>
DATE PREPARED <b>07/17/2023</b>
SHEET <b>12 OF 48</b>

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SIMMONS STREET



CLEVELAND STREET



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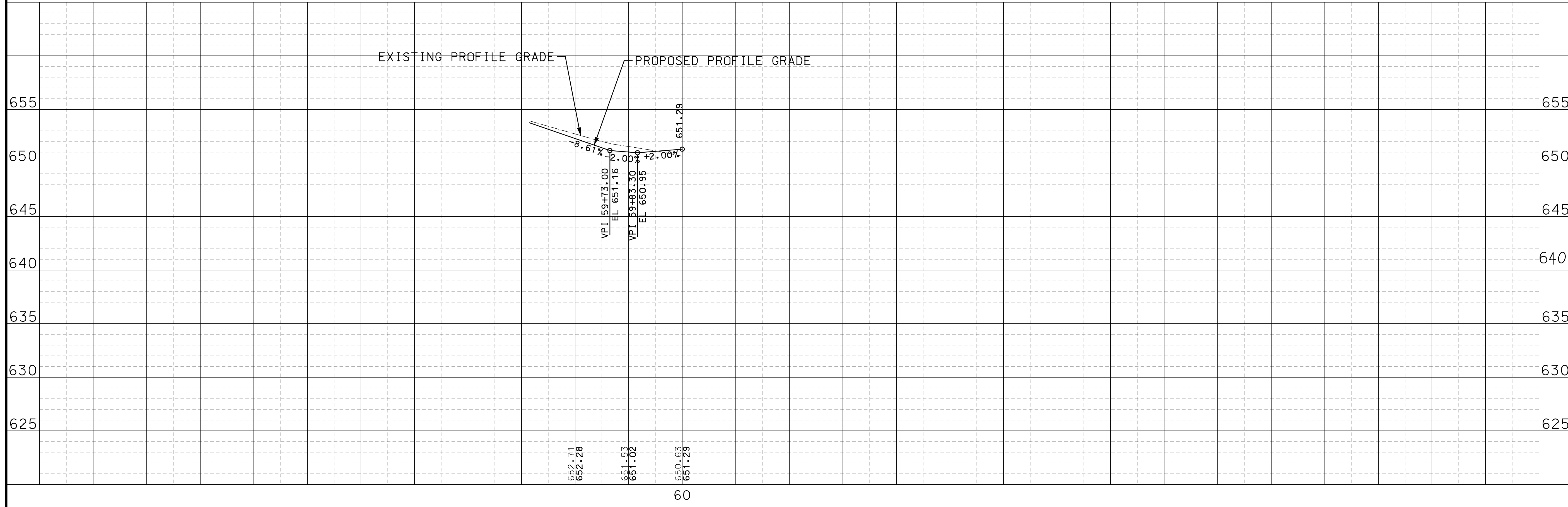
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RECONSTRUCTION  
SIDE ROAD PROFILES  
SHEET 1 OF 5

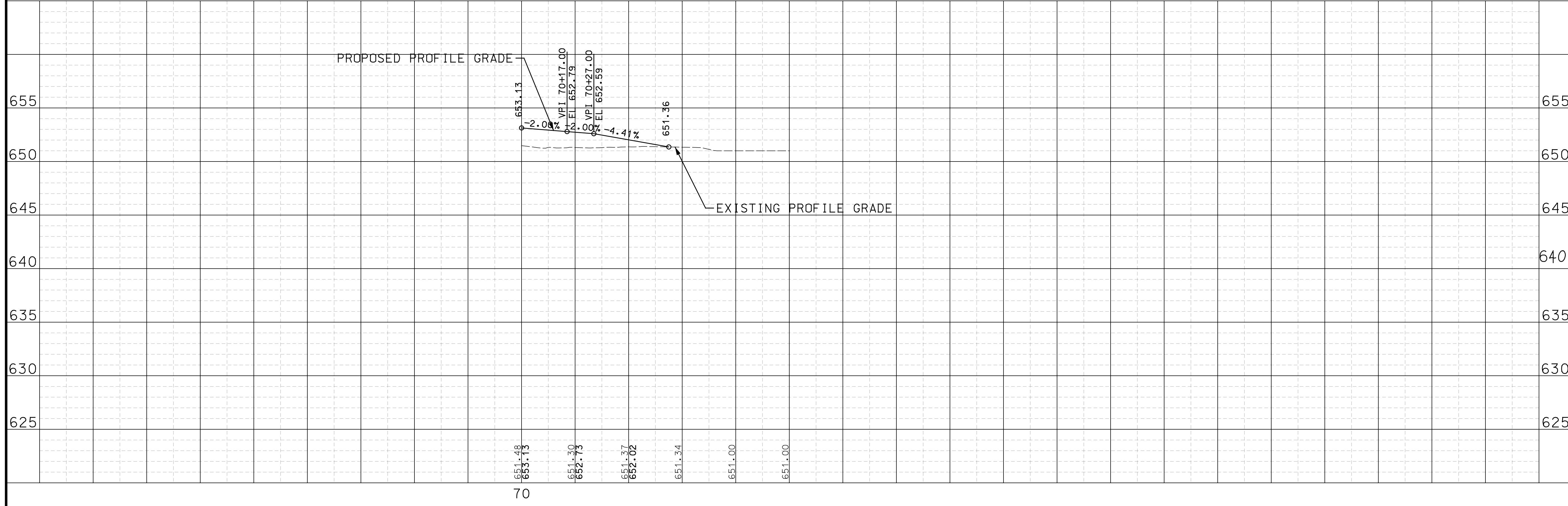
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MSD PROJECT NO. 62523MSD-00141
MSD BASE MAP 23M, 23N
DATE PREPARED 07/17/2023
SHEET 13 OF 48

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VAN BUREN AVENUE



EVANS STREET



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REV	DESCRIPTION

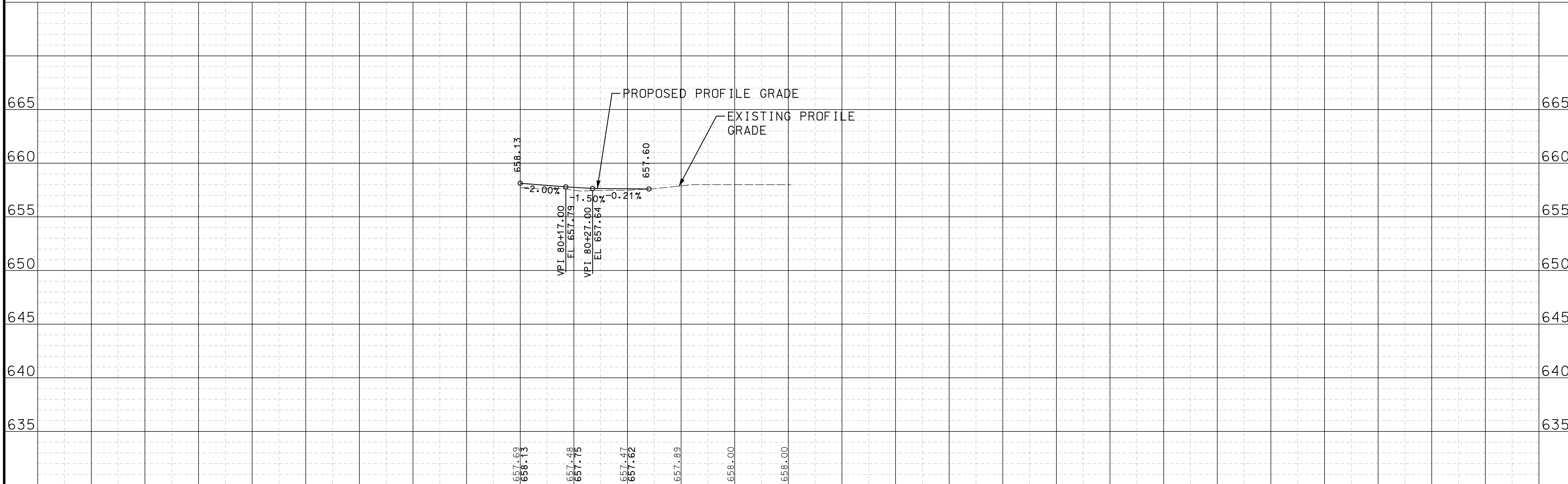
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RECONSTRUCTION  
SIDE ROAD PROFILES  
SHEET 2 OF 5

PROJECT/JOB NO.  
**STP-5502(610)**  
MSD PROJECT NO.  
**23MSD-00141**  
MSD BASE MAP  
**23M, 23N**  
DATE PREPARED  
**07/17/2023**  
SHEET  
**14 OF 48**

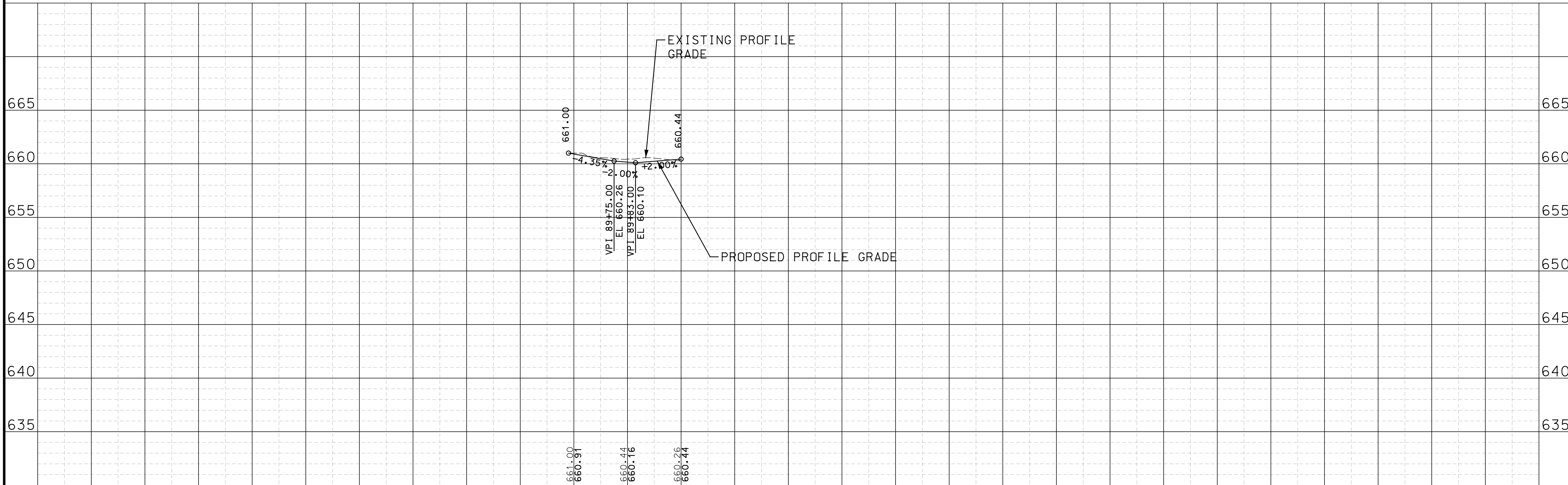
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HARRISON AVENUE NORTH



80

HARRISON AVENUE SOUTH



90

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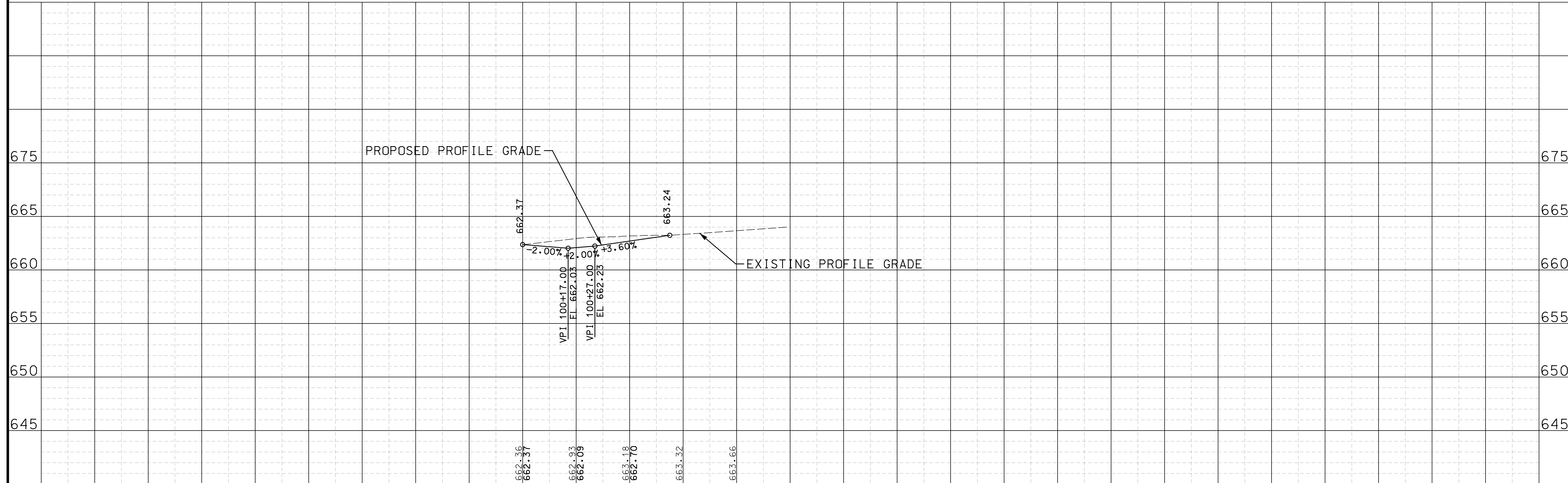
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RECONSTRUCTION  
SIDE ROAD PROFILES  
SHEET 3 OF 5

PROJECT/JOB NO. STP-5502(610)
MSD PROJECT NO. 23MSD-00141
MSD BASE MAP 23M, 23N
DATE PREPARED 07/17/2023
SHEET 15 OF 48

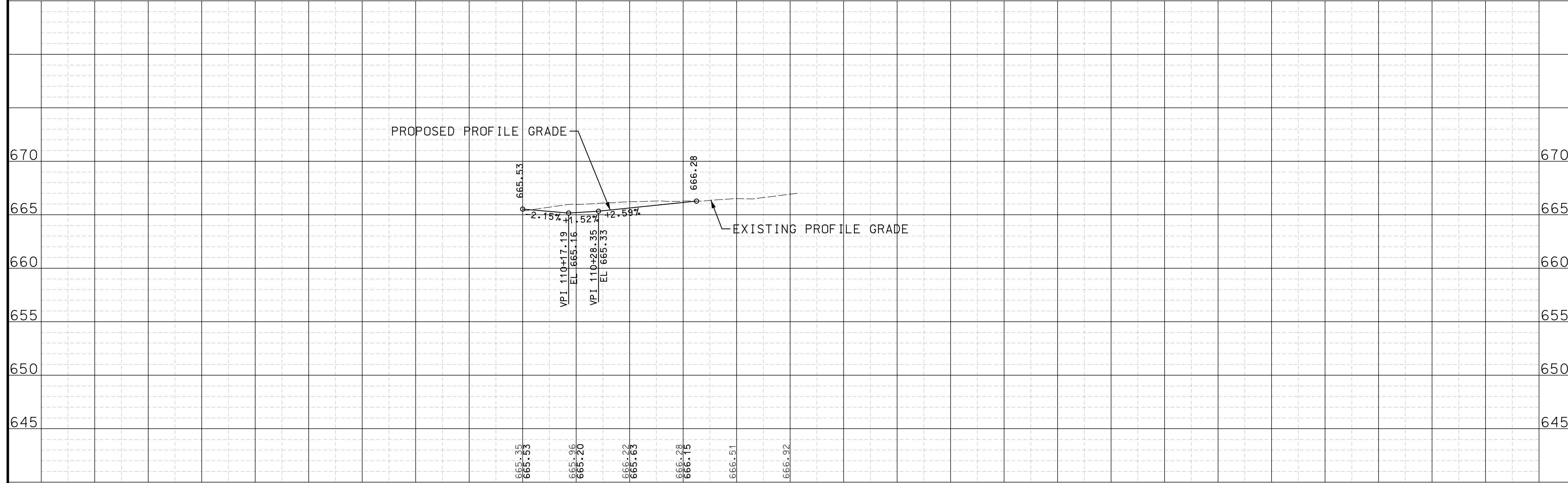
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PEARL AVENUE



100

CLAY AVENUE NORTH



110

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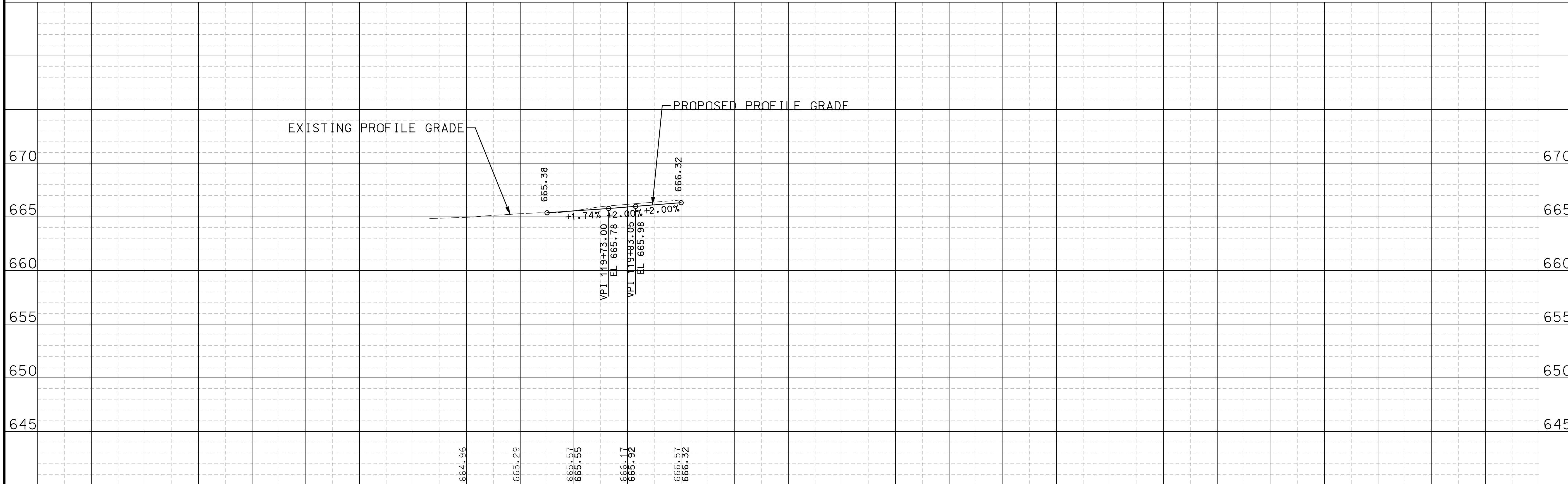
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RECONSTRUCTION  
 SIDE ROAD PROFILES  
SHEET 4 OF 5

PROJECT/JOB NO. STP-5502(610)
MSD PROJECT NO. 23MSD-00141
MSD BASE MAP 23M, 23N
DATE PREPARED 07/17/2023
SHEET 16 OF 48



CLAY AVENUE SOUTH



120

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WEST ESSEX AVENUE  
RECONSTRUCTION  
SIDE ROAD PROFILES  
SHEET 5 OF 5

PROJECT/JOB NO. STP-5502(610)
MSD PROJECT NO. 23MSD-00141
MSD BASE MAP 23M, 23N
DATE PREPARED 07/17/2023
SHEET 17 OF 48

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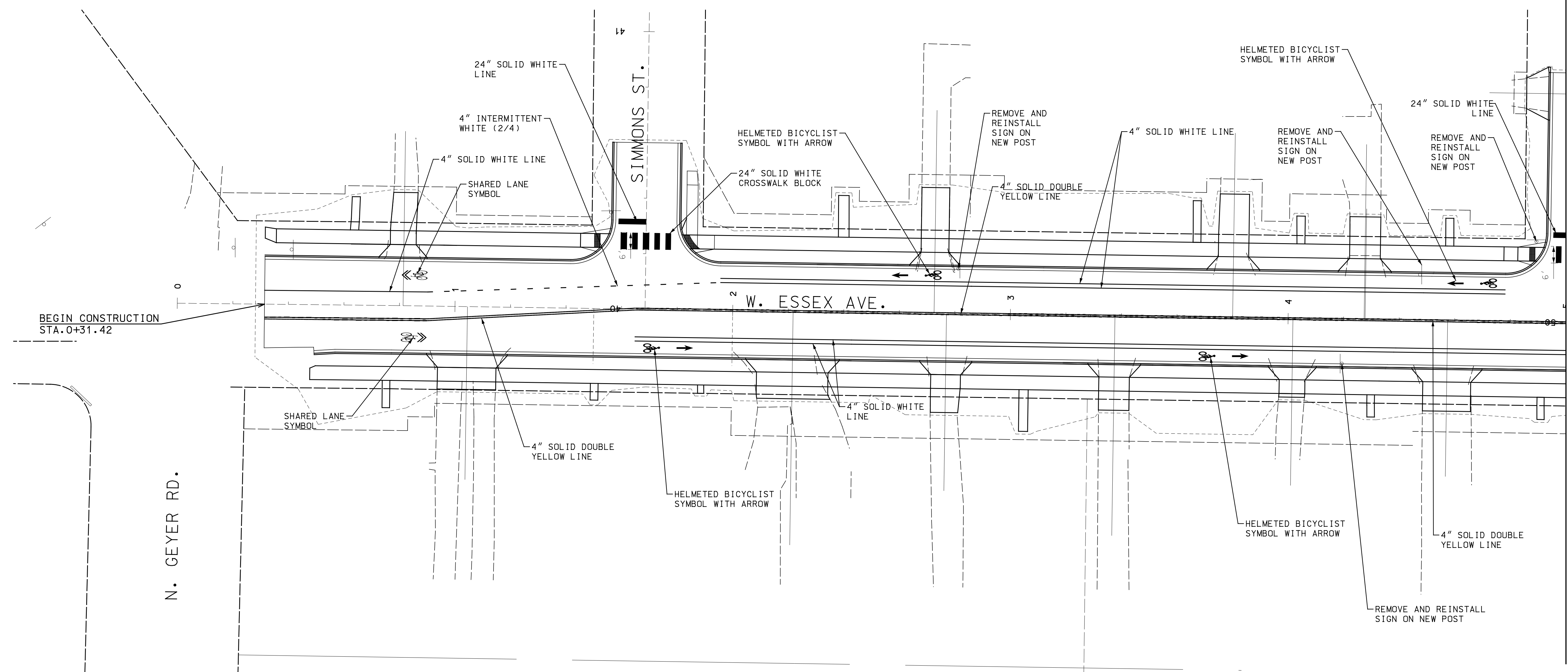
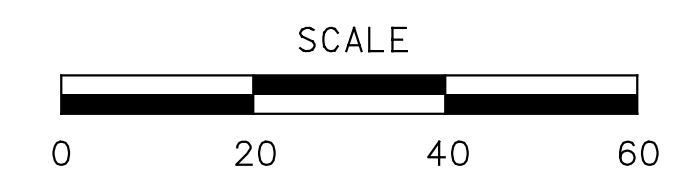
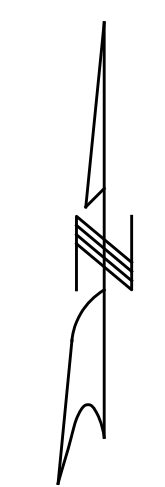
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SHEET 1 OF 5**

PROJECT/JOB NO.  
**STP-5502(610)**  
 MSD PROJECT NO.  
**23MSD-00141**  
 MSD BASE MAP  
**23M, 23N**  
 DATE PREPARED  
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 SHEET  
**18 OF 48**

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MATCHLINE STA 5+00

N. GEYER RD.

SIMMONS ST.

W. ESSEX AVE.

HELMETED BICYCLIST SYMBOL WITH ARROW

24" SOLID WHITE LINE

24" SOLID WHITE LINE

4" INTERMITTENT WHITE (2/4)

4" SOLID WHITE LINE

SHARED LANE SYMBOL

HELMETED BICYCLIST SYMBOL WITH ARROW

24" SOLID WHITE CROSSWALK BLOCK

REMOVE AND REINSTALL SIGN ON NEW POST

4" SOLID DOUBLE YELLOW LINE

4" SOLID WHITE LINE

REMOVE AND REINSTALL SIGN ON NEW POST

24" SOLID WHITE LINE

REMOVE AND REINSTALL SIGN ON NEW POST

BEGIN CONSTRUCTION STA. 0+31.42

SHARED LANE SYMBOL

4" SOLID DOUBLE YELLOW LINE

HELMETED BICYCLIST SYMBOL WITH ARROW

4" SOLID WHITE LINE

HELMETED BICYCLIST SYMBOL WITH ARROW

4" SOLID DOUBLE YELLOW LINE

REMOVE AND REINSTALL SIGN ON NEW POST

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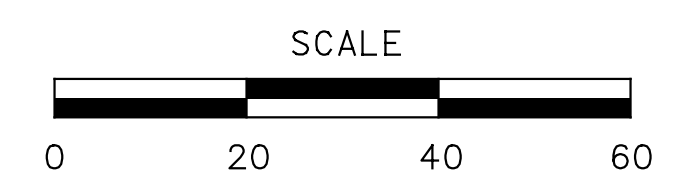
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STRIPING/SIGNING  
SHEET 2 OF 5**

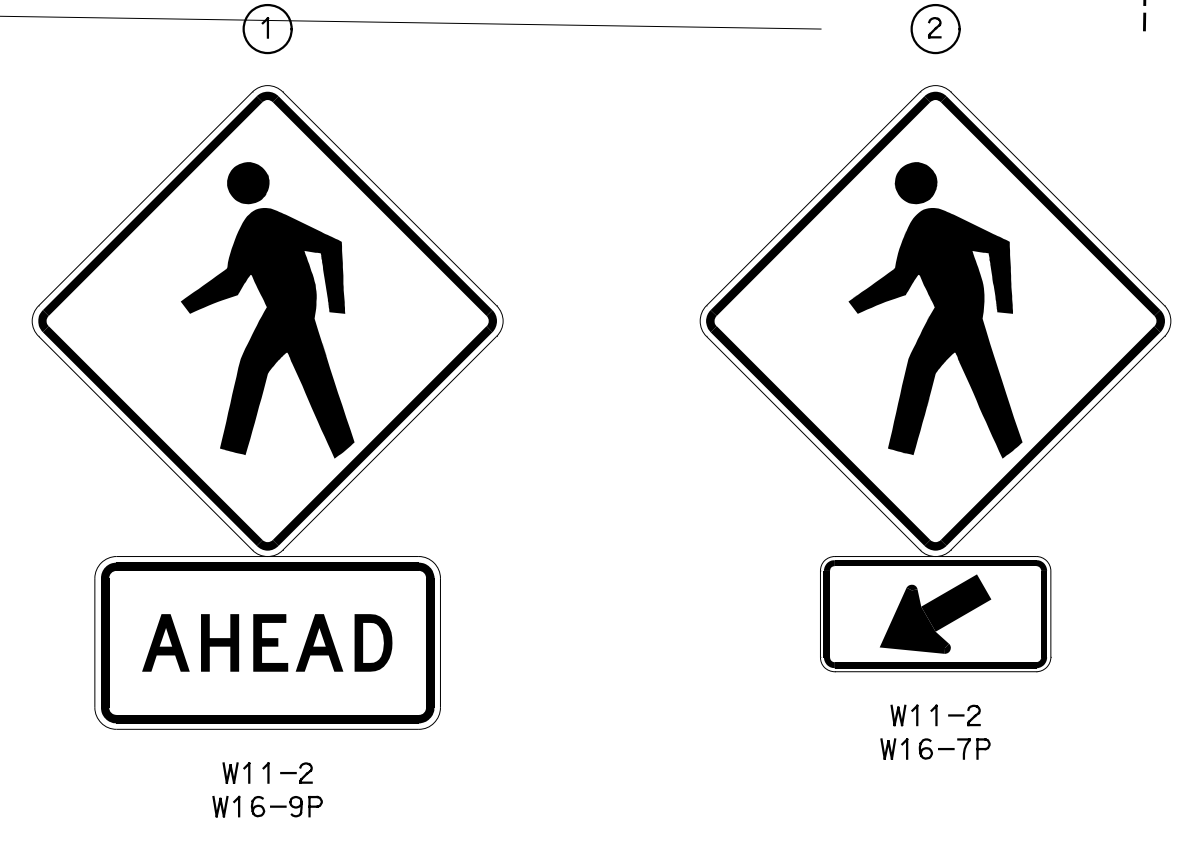
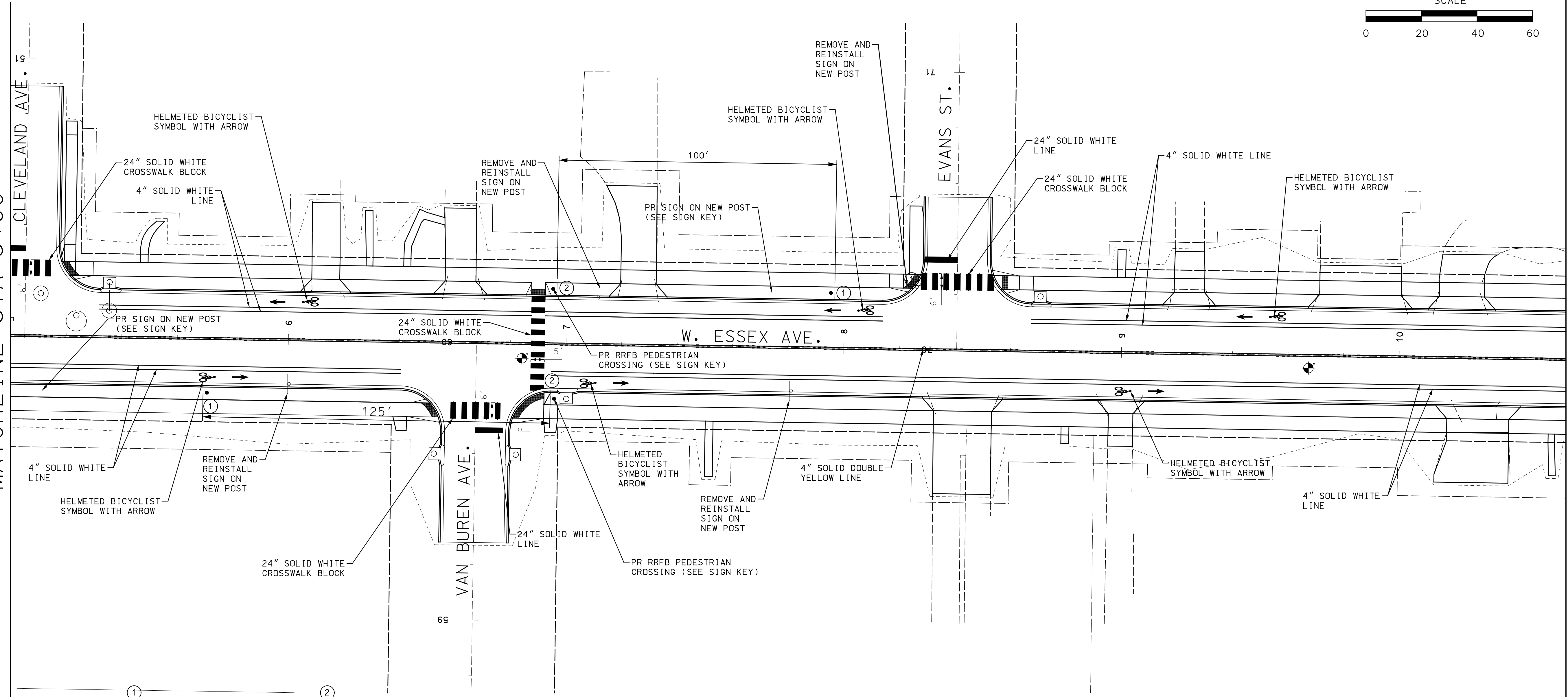
PROJECT/JOB NO.  
**STP-5502(610)**  
 MSD PROJECT NO.  
**23MSD-00141**  
 MSD BASE MAP  
**23M, 23N**  
 DATE PREPARED  
**07/17/2023**  
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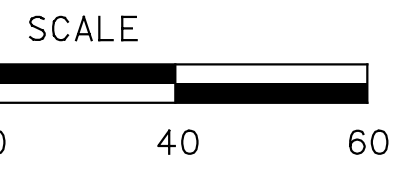
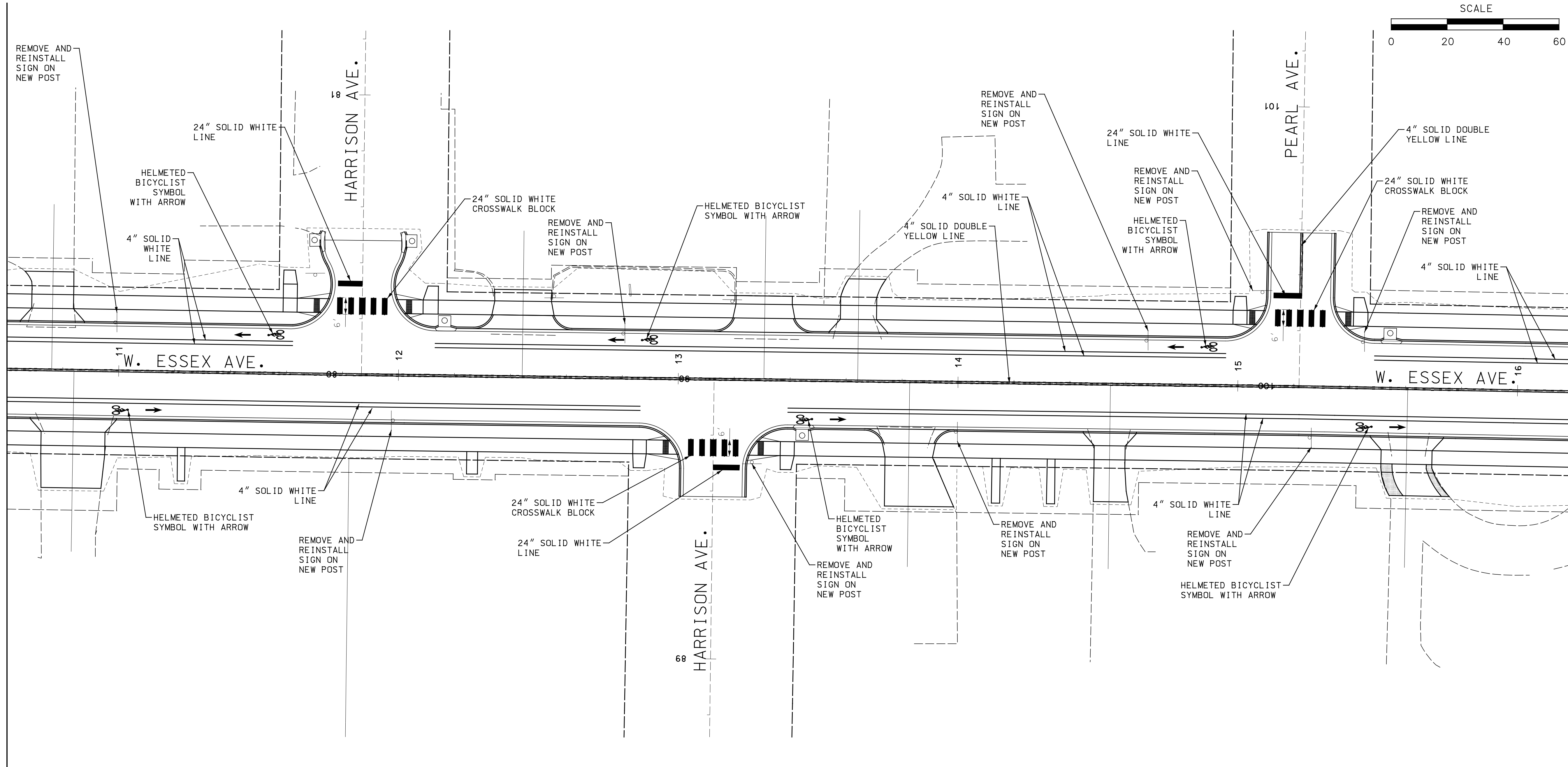


MATCHLINE STA 5+00

MATCHLINE STA 10+60



MATCHLINE STA 10+60



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 SHEET 3 OF 5

PROJECT/JOB NO.	STP-5502(610)
MSD PROJECT NO.	23MSD-00141
MSD BASE MAP	23M.23N
DATE PREPARED	07/17/2023
SHEET	20 OF 48

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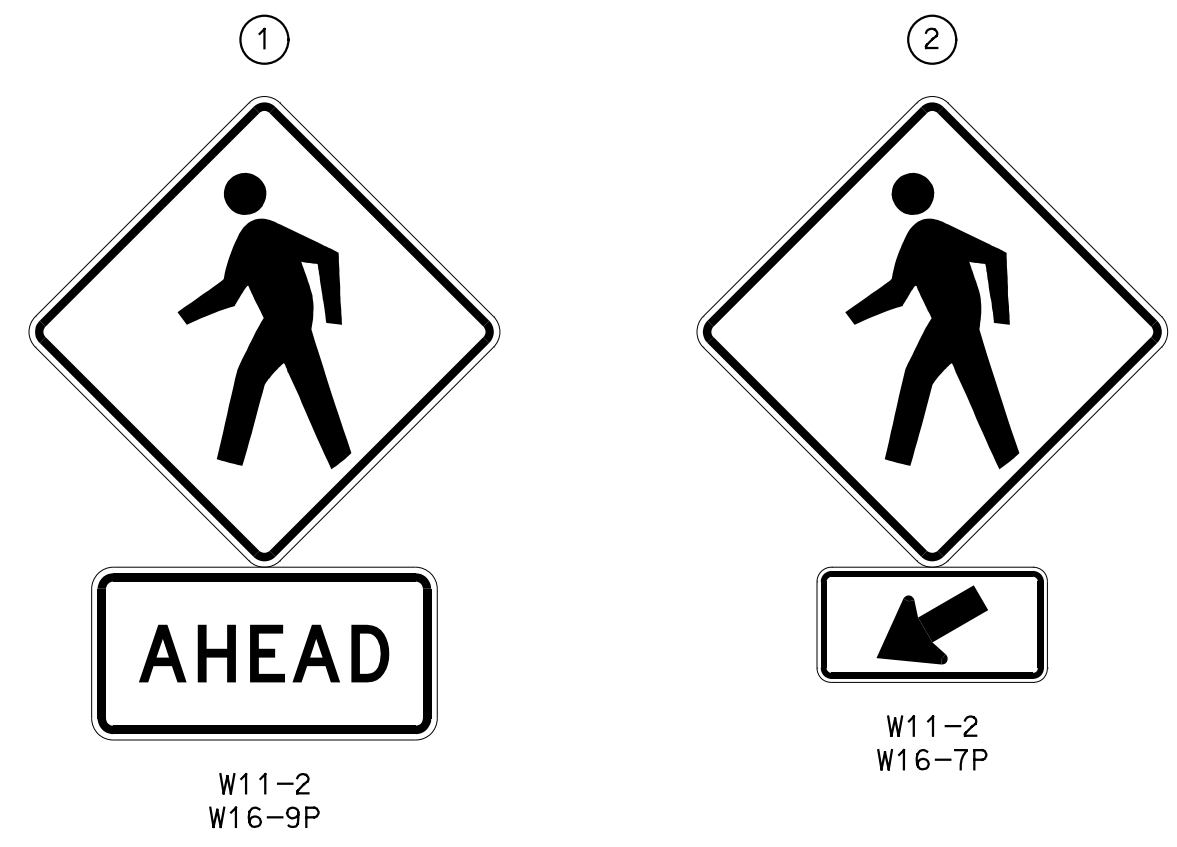
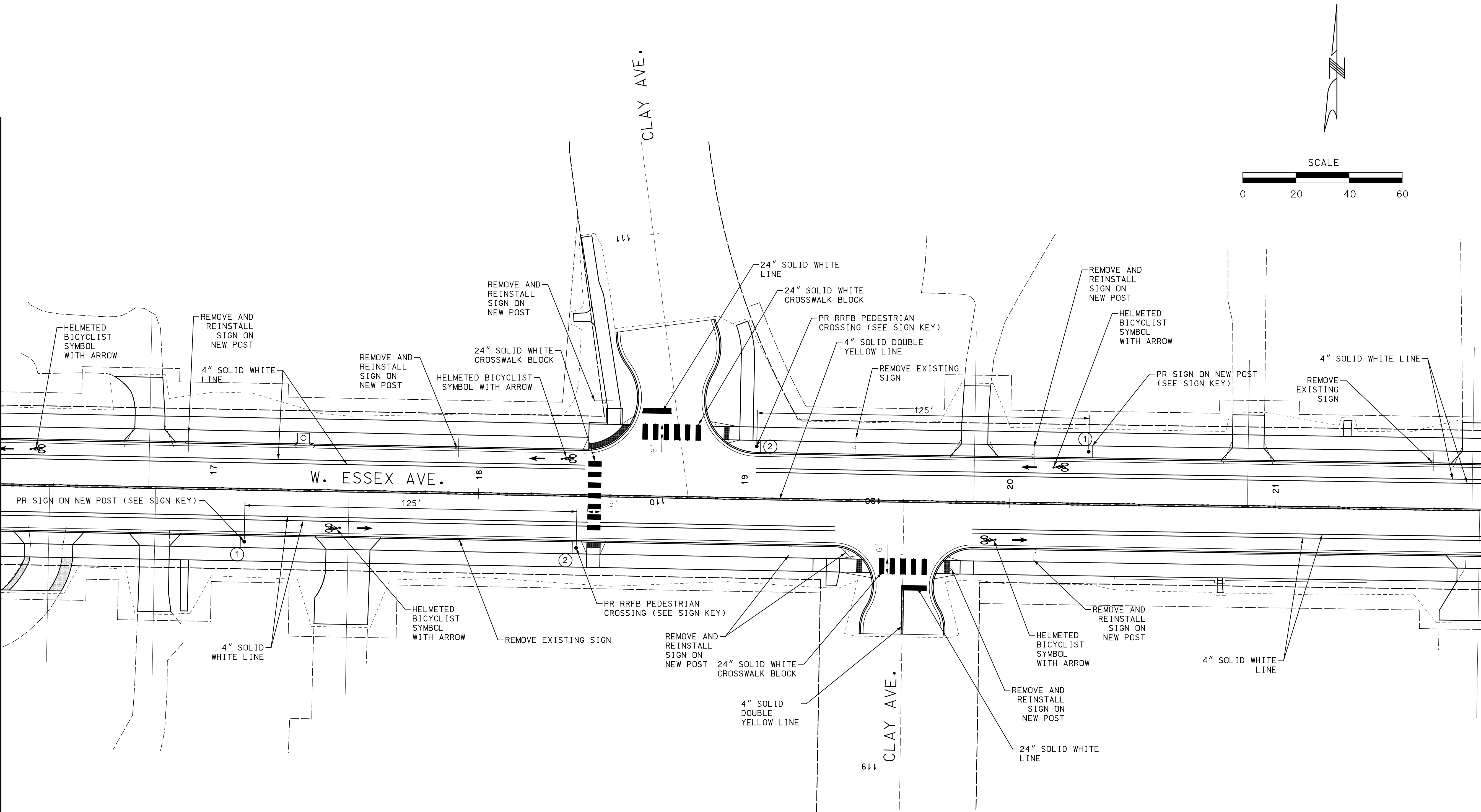
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 RECONSTRUCTION  
 STRIPING/SIGNING  
 SHEET 4 OF 5

PROJECT/JOB NO.  
**STP-5502(610)**  
 MSD PROJECT NO.  
**23MSD-00141**  
 MSD BASE MAP  
**23M, 23N**  
 DATE PREPARED  
**07/17/2023**  
 SHEET  
**21 OF 48**

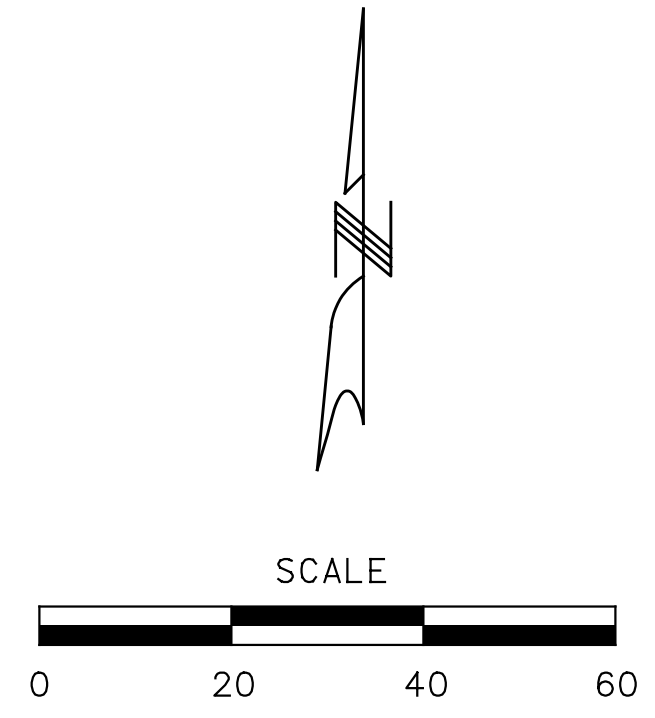
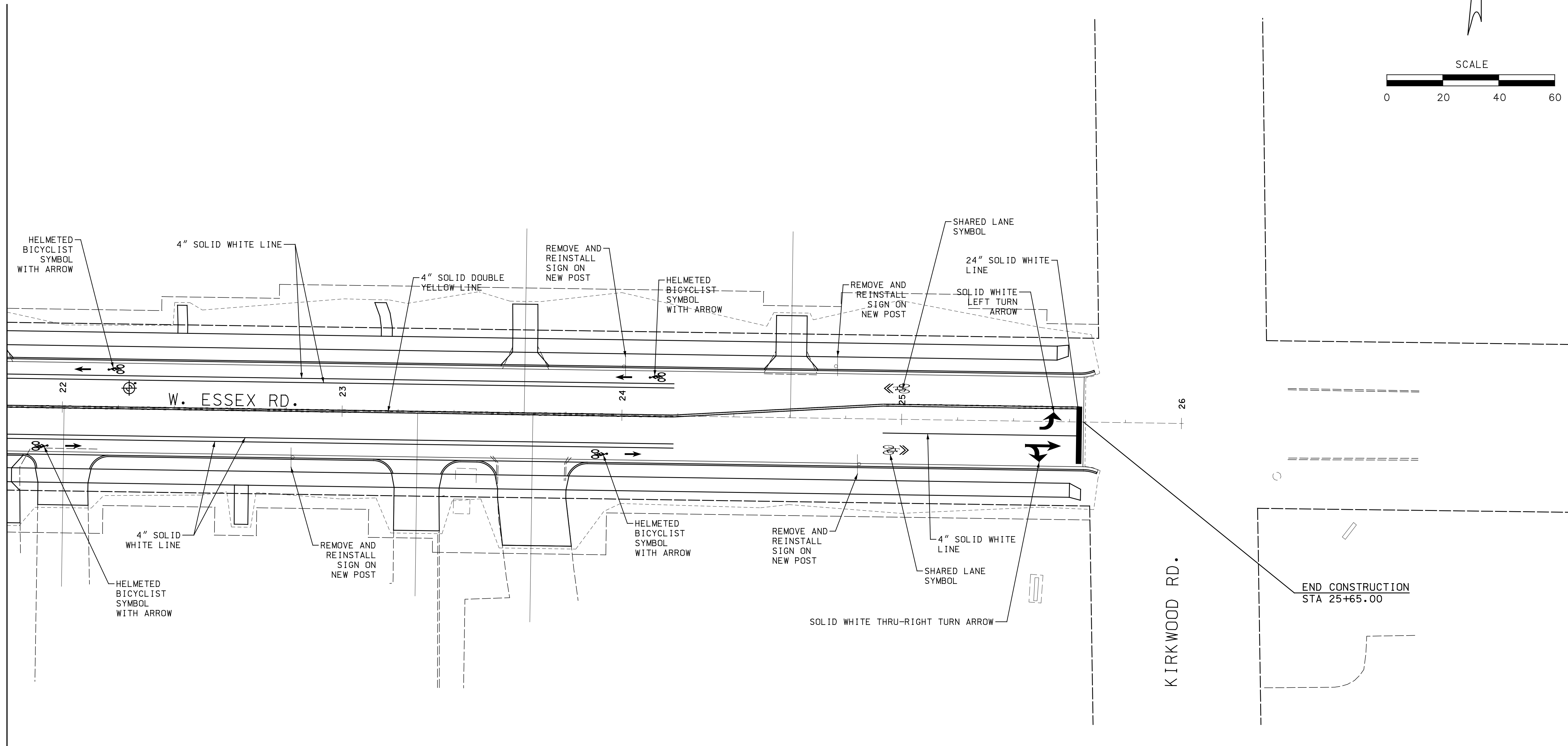
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MATCHLINE STA 16+20

MATCHLINE STA 21+80



MATCHLINE STA 21+80



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RECONSTRUCTION  
STRIPING/SIGNING  
SHEET 5 OF 5

PROJECT/JOB NO.	STP-5502(610)
MSD PROJECT NO.	23MSD-00141
MSD BASE MAP	23M, 23N
DATE PREPARED	07/17/2023
SHEET	22 OF 48

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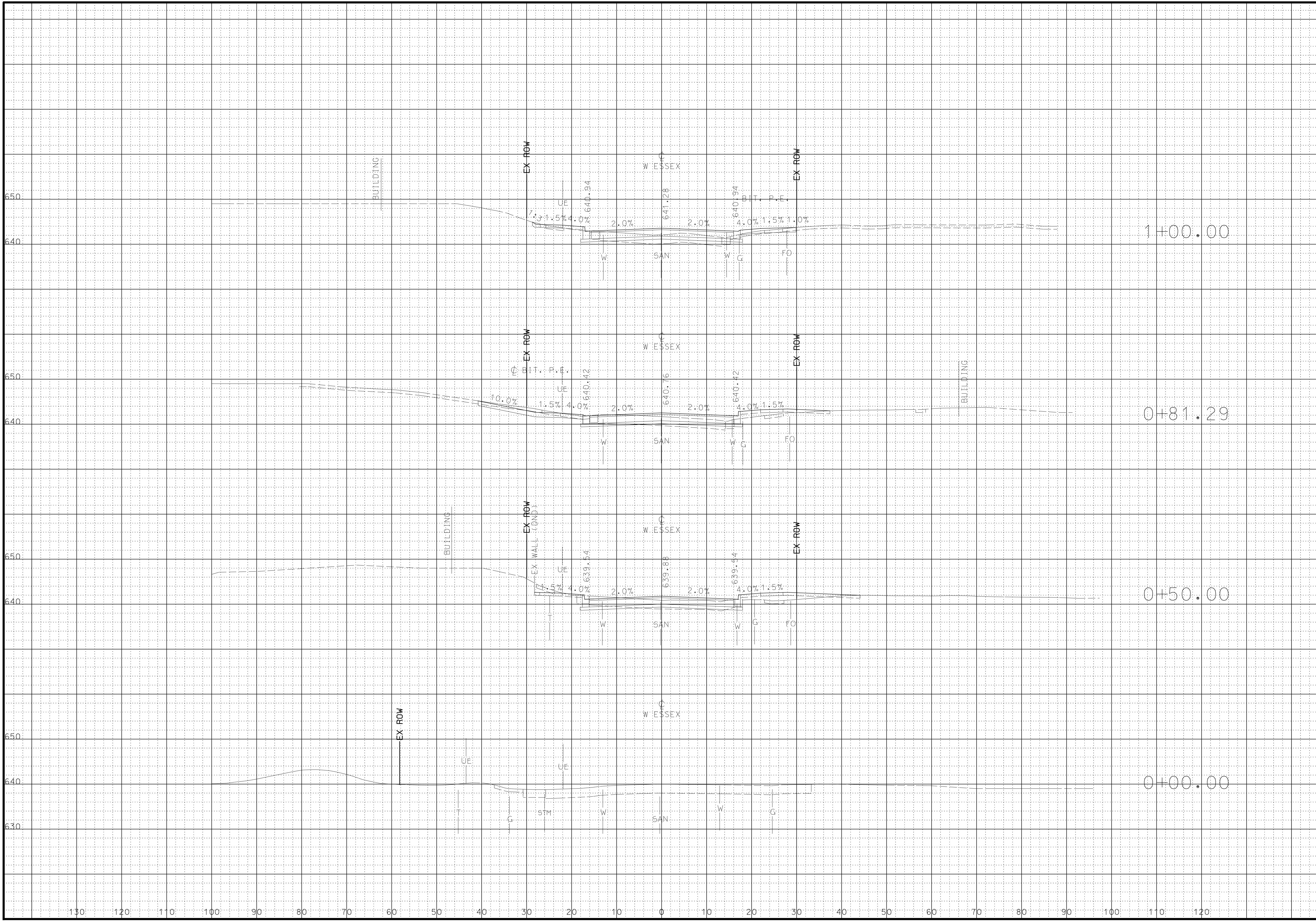
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**WEST ESSEX AVENUE  
RECONSTRUCTION**

**CROSS SECTIONS  
WEST ESSEX AVENUE**

PROJECT/JOB NO. STP-5502(610)
MSD BASE MAP 23M, 23N
DATE PREPARED 07/17/2023
SHEET 23 OF 48







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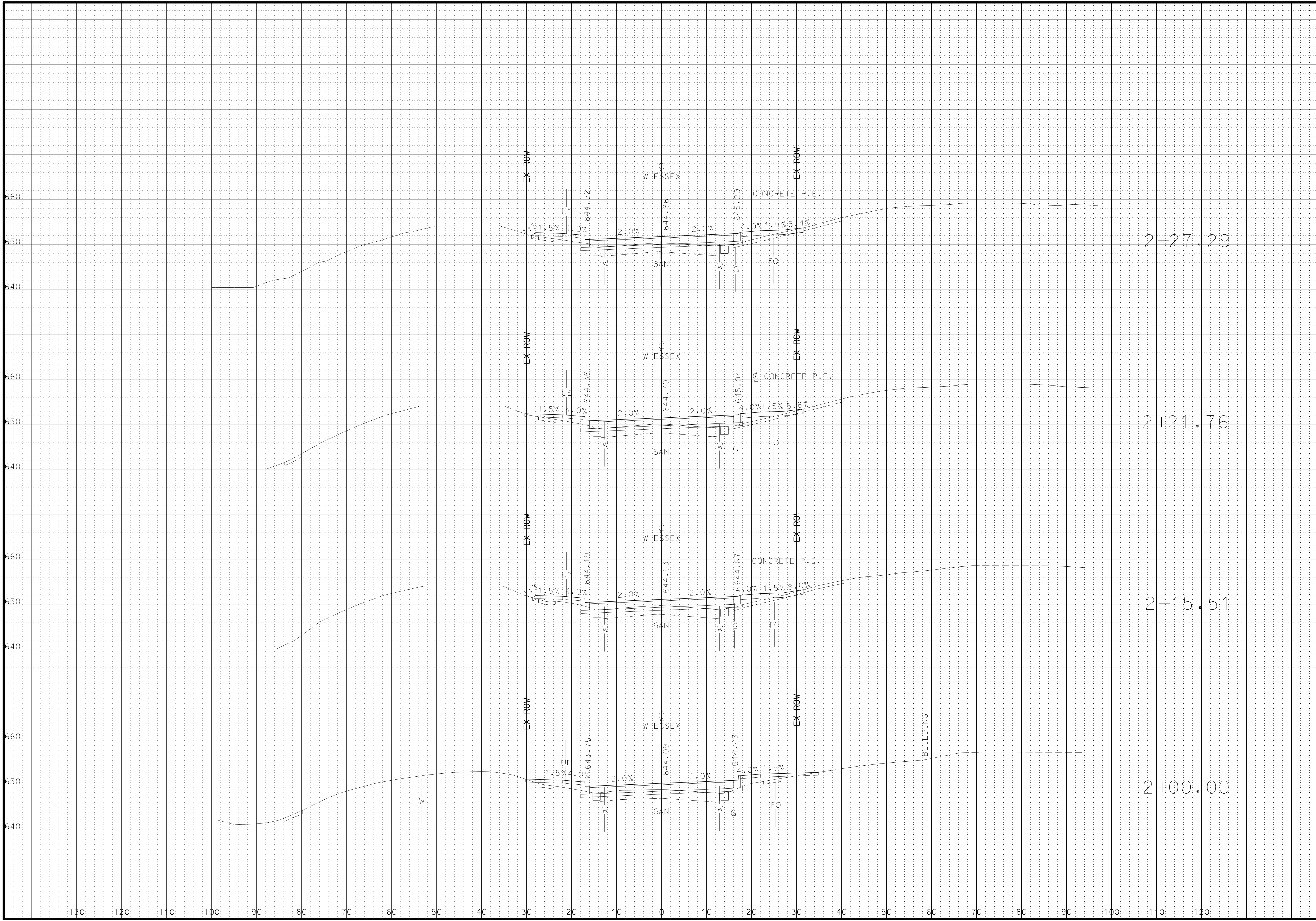
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PROJECT/JOB NO.  
**STP-5502(610)**  
MSD BASE MAP  
**23M, 23N**  
DATE PREPARED  
**07/17/2023**  
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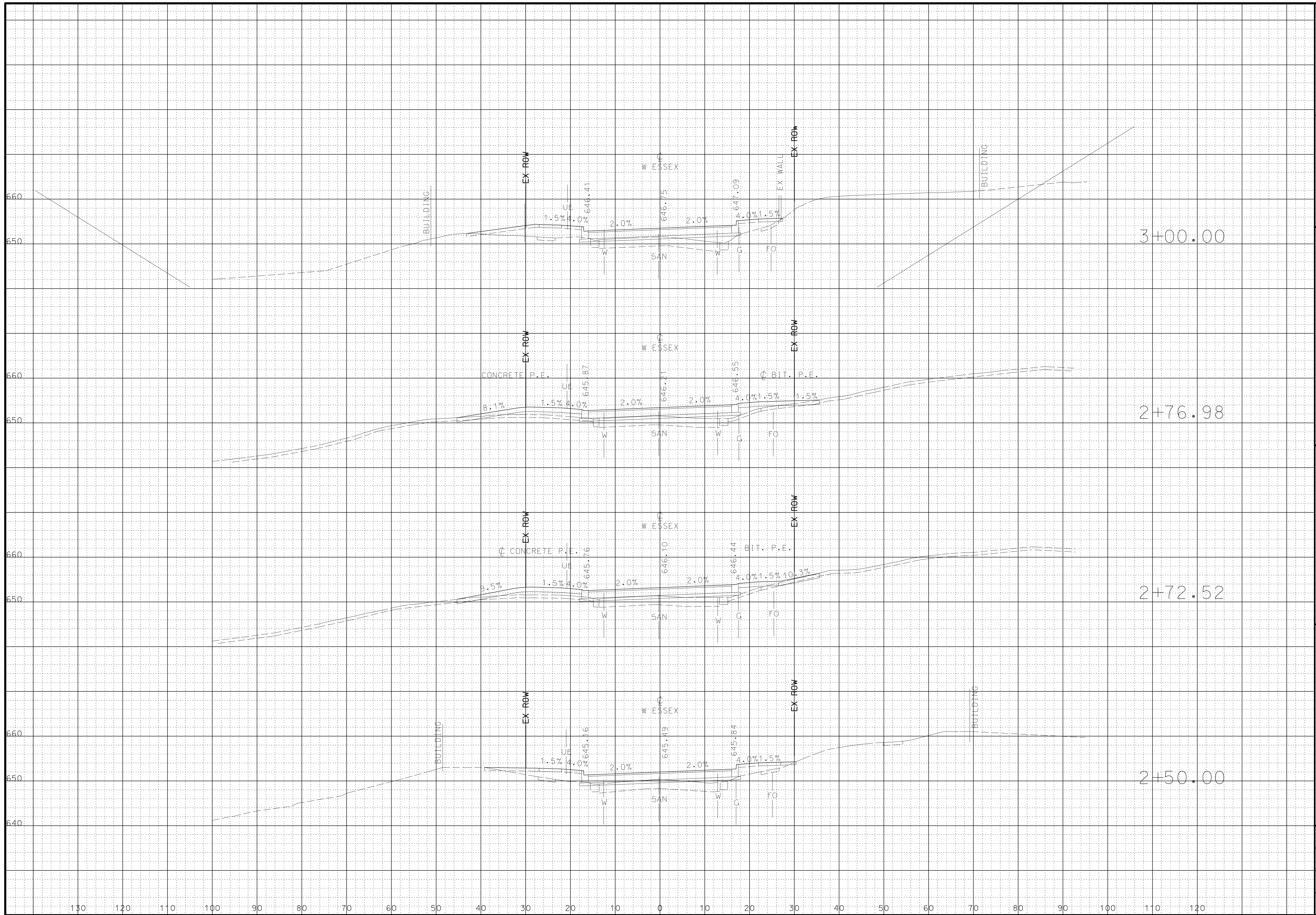


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PROJECT/JOB NO.  
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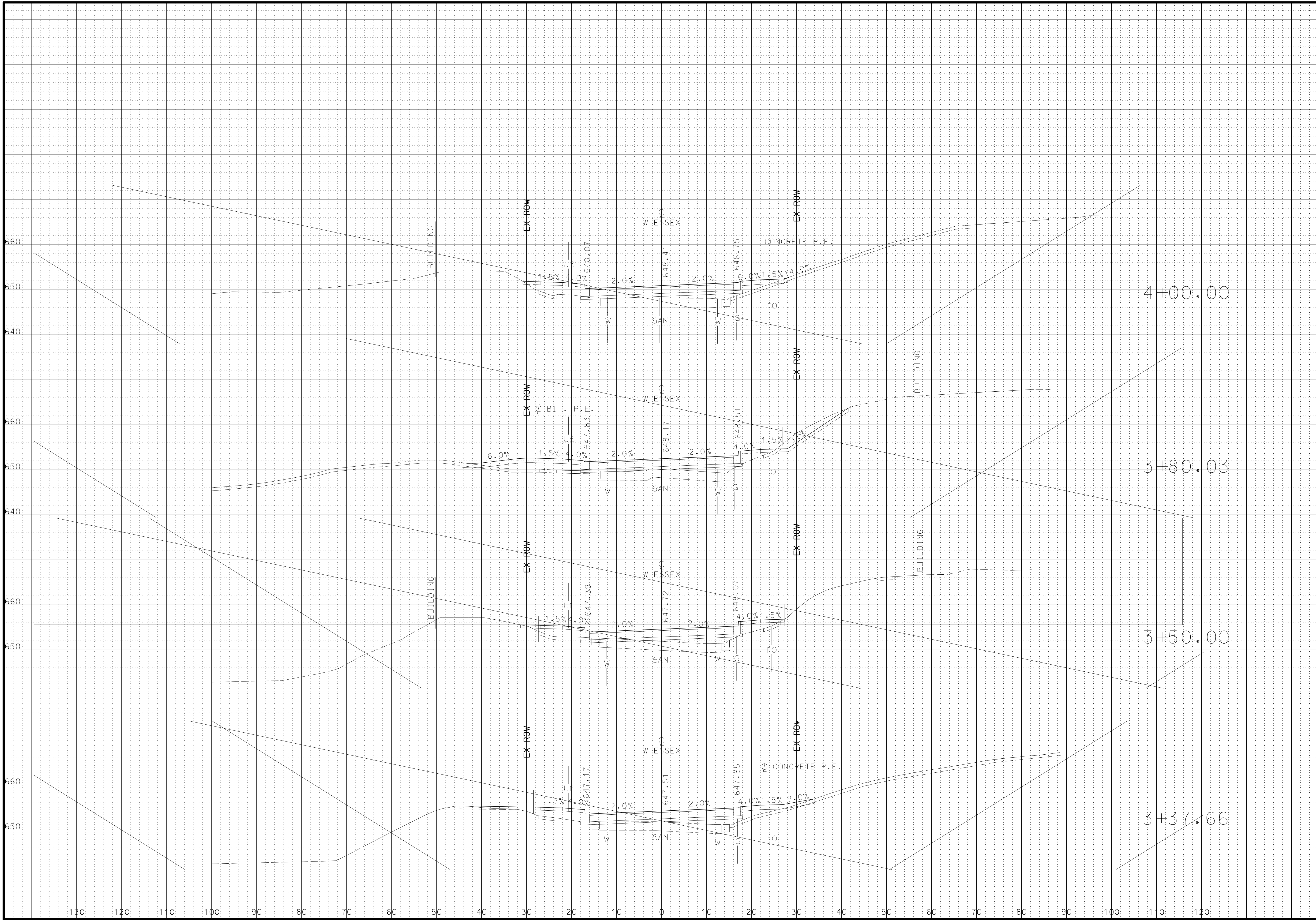
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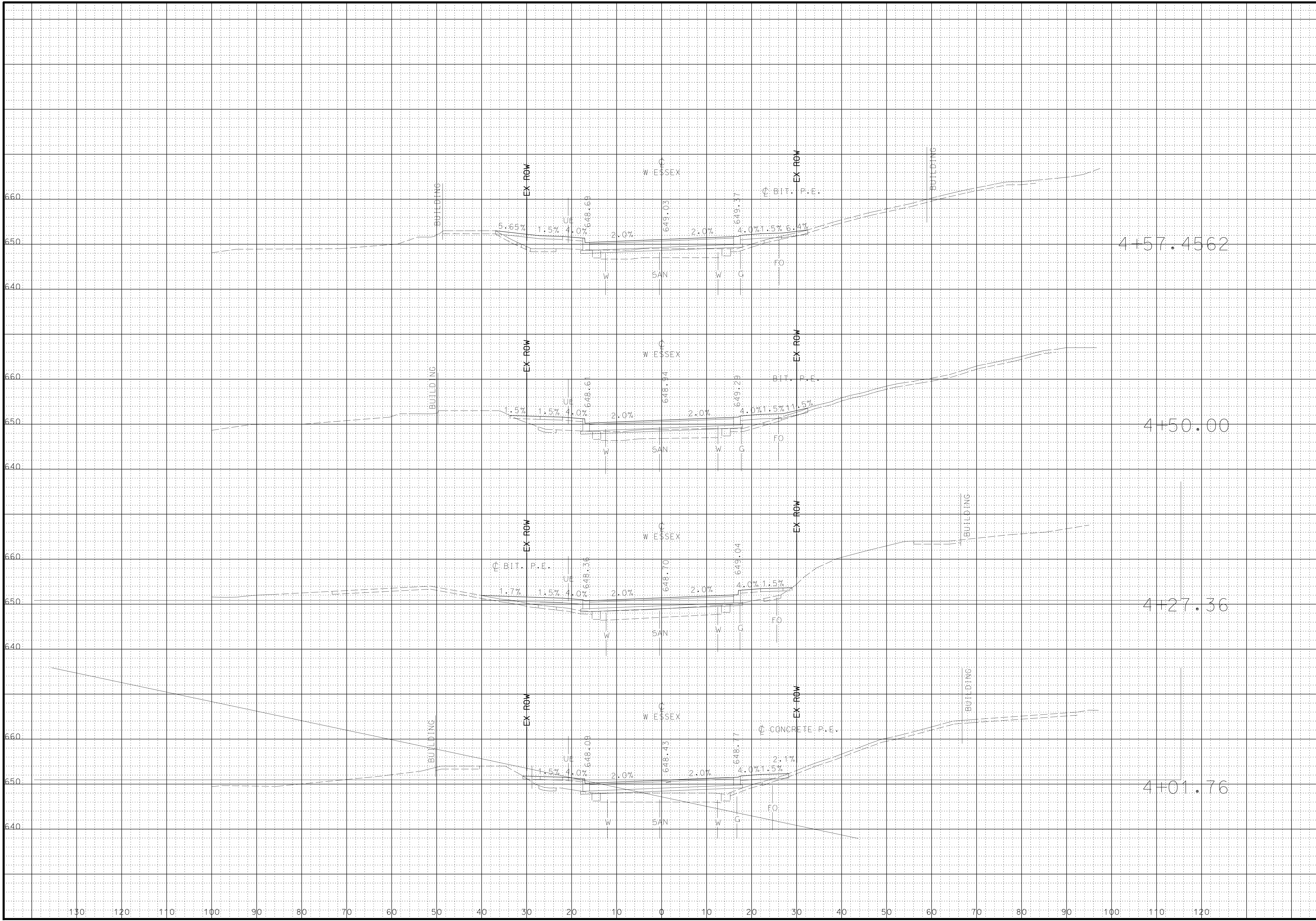
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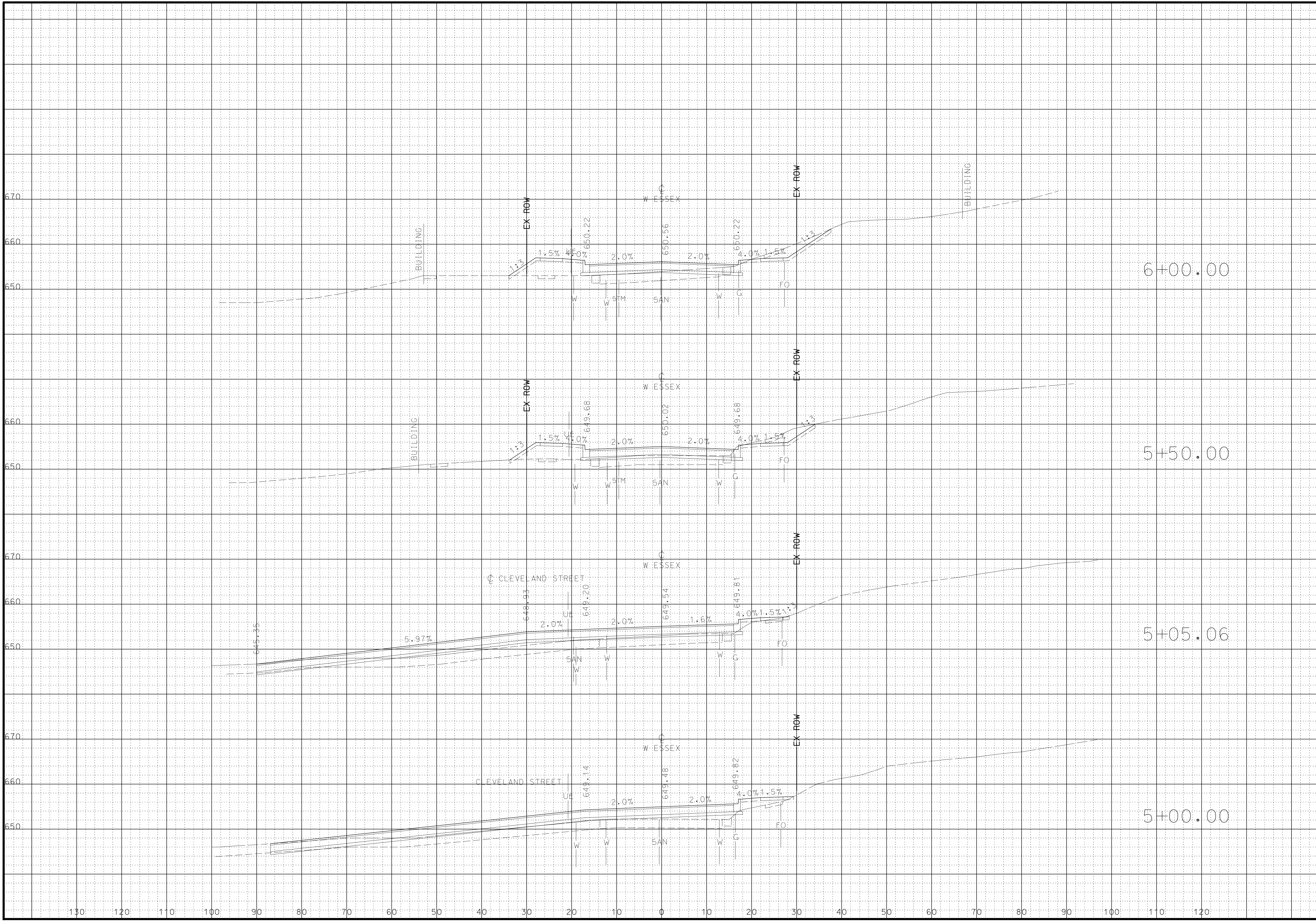
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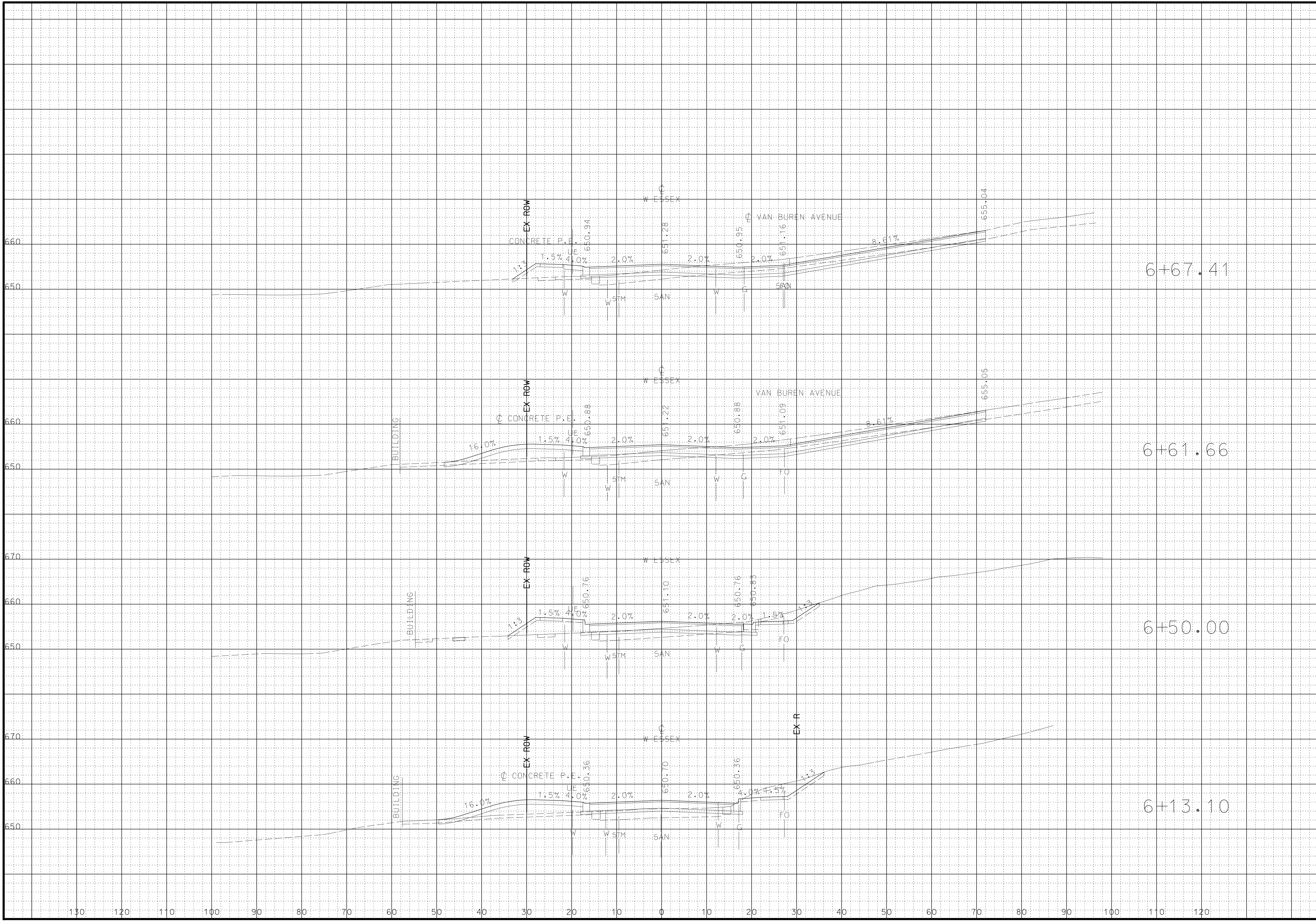
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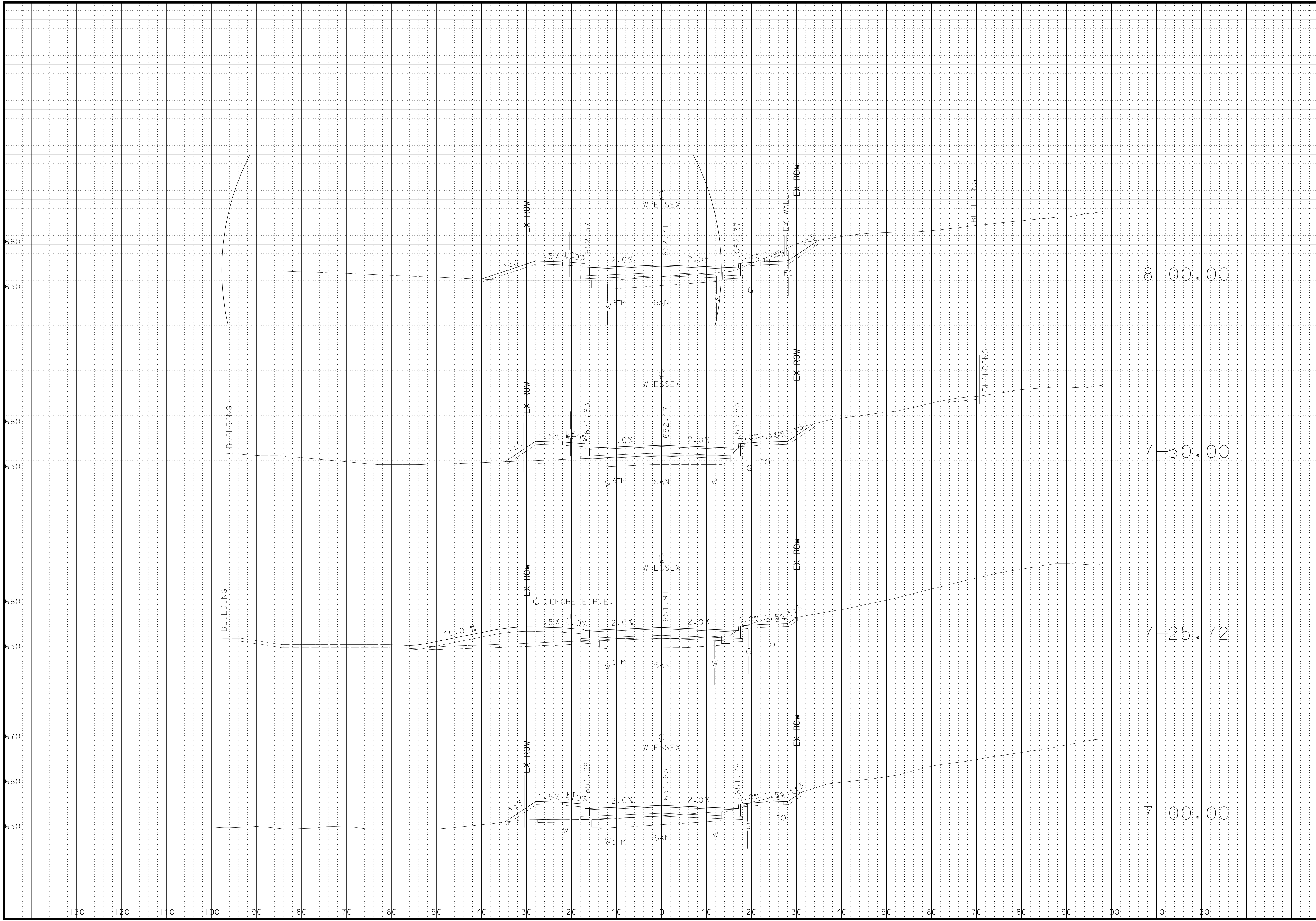


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LOCHMUELLER PROJECT NO. 520-0140





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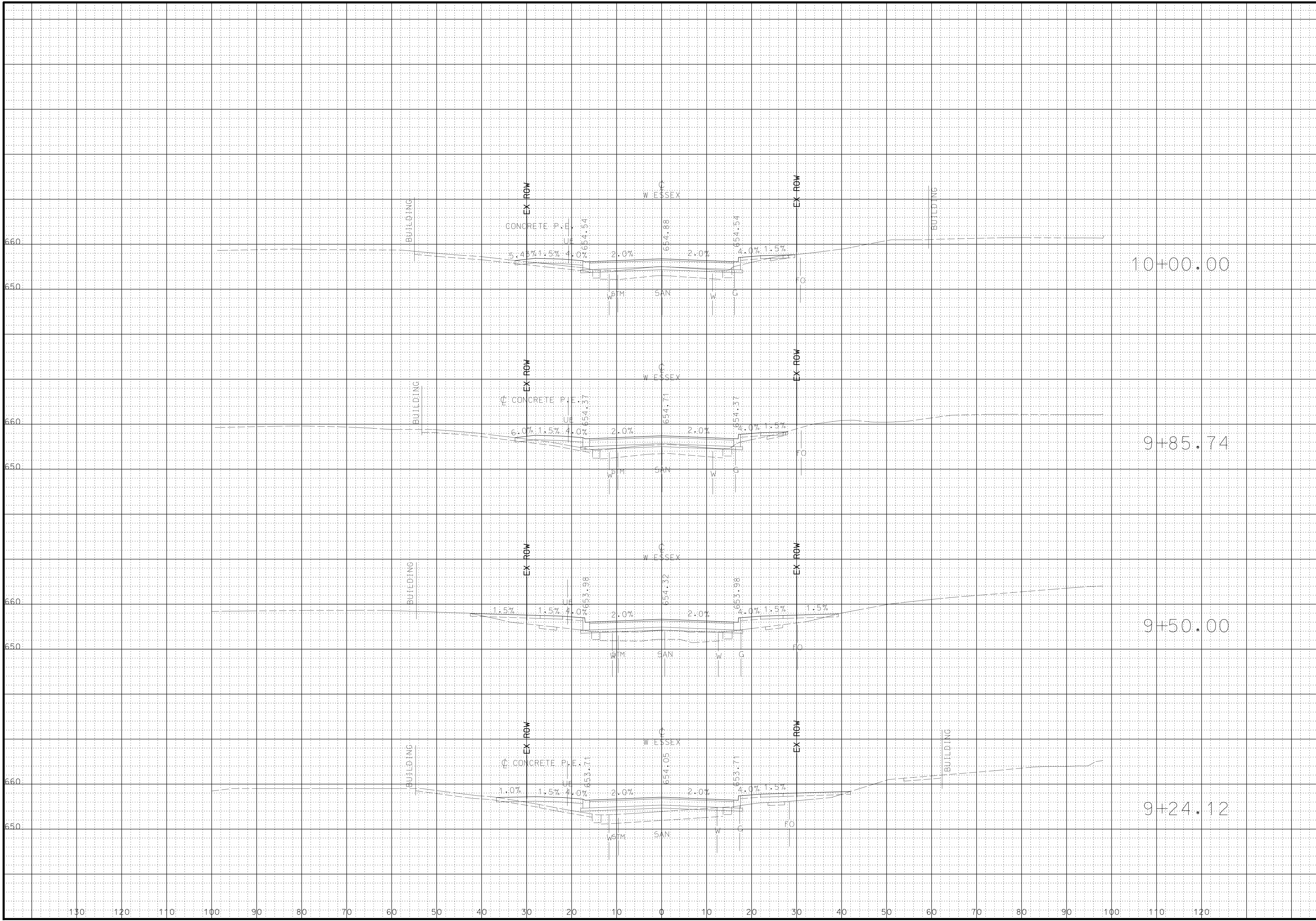
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**STP-5502(610)**  
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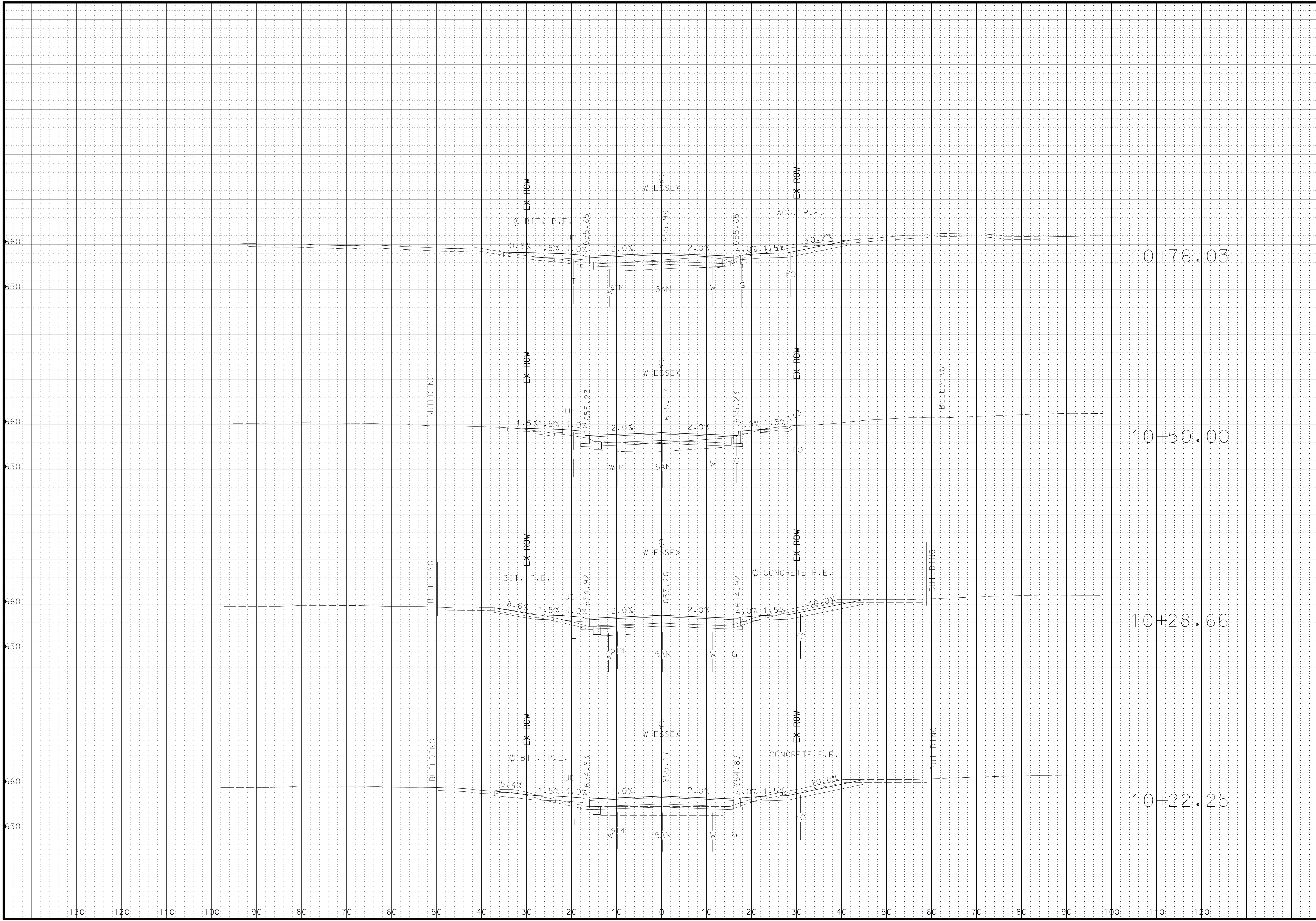
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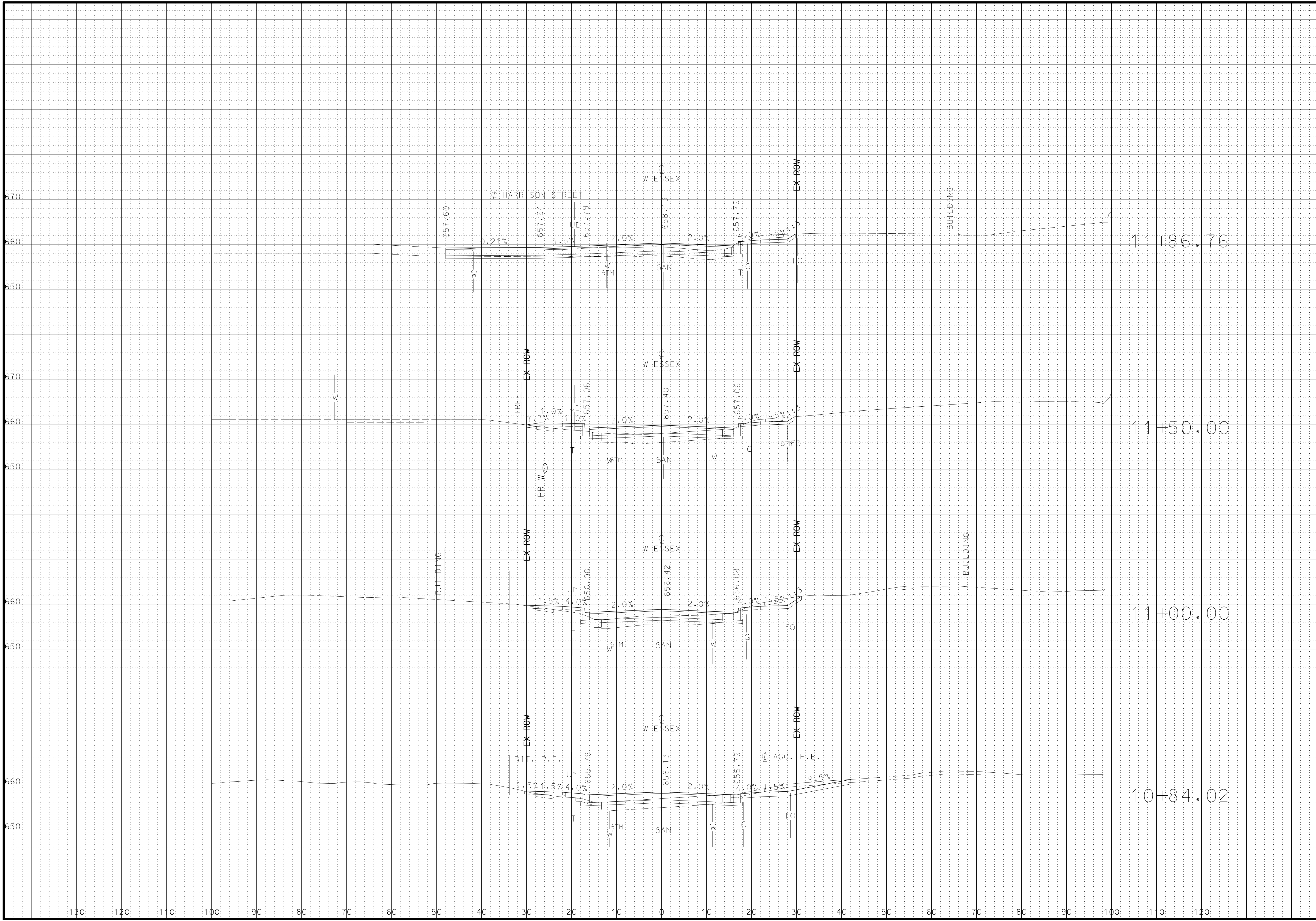
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LOCHMUELLER PROJECT NO. 520-0140

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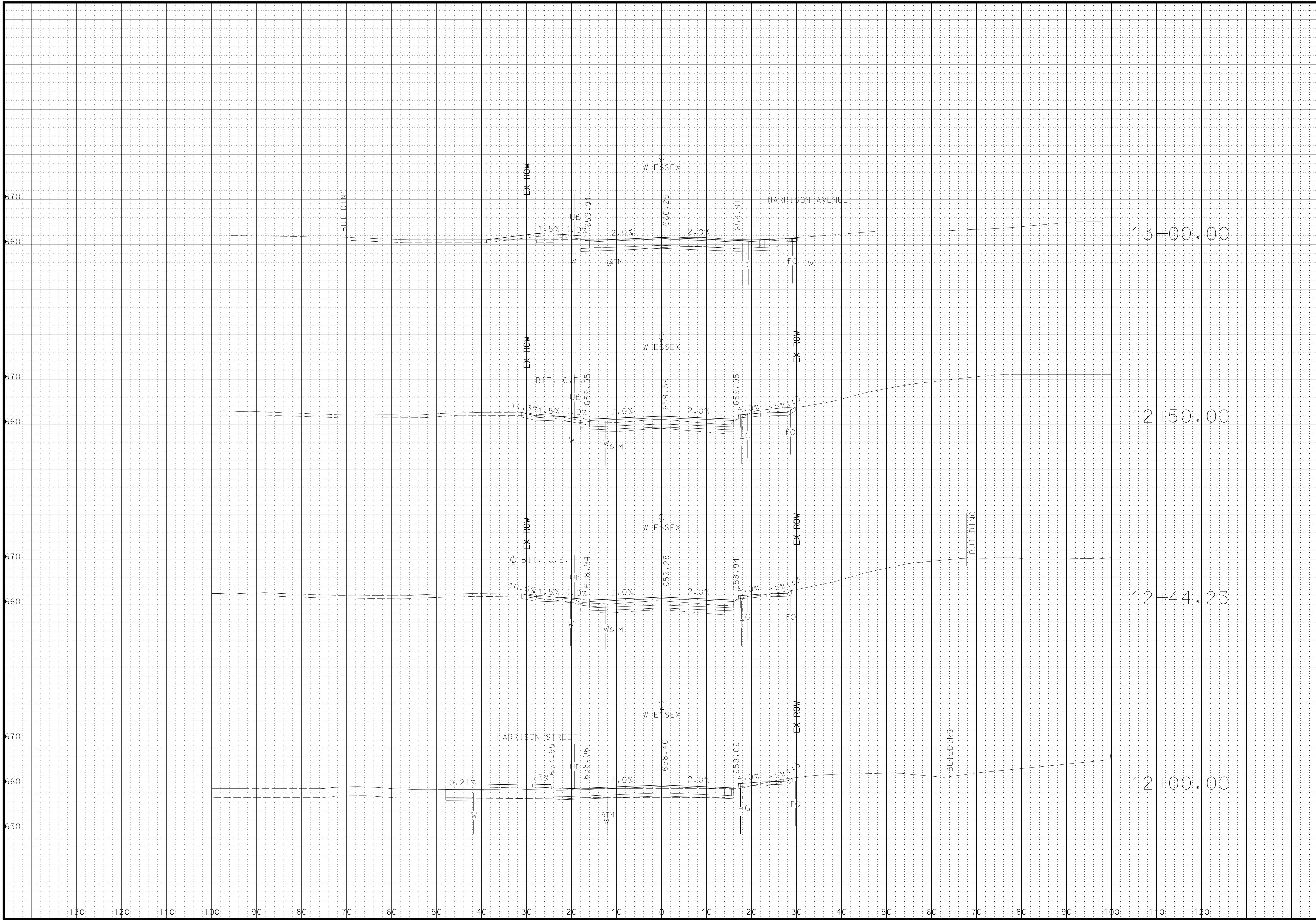
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PROJECT/JOB NO.  
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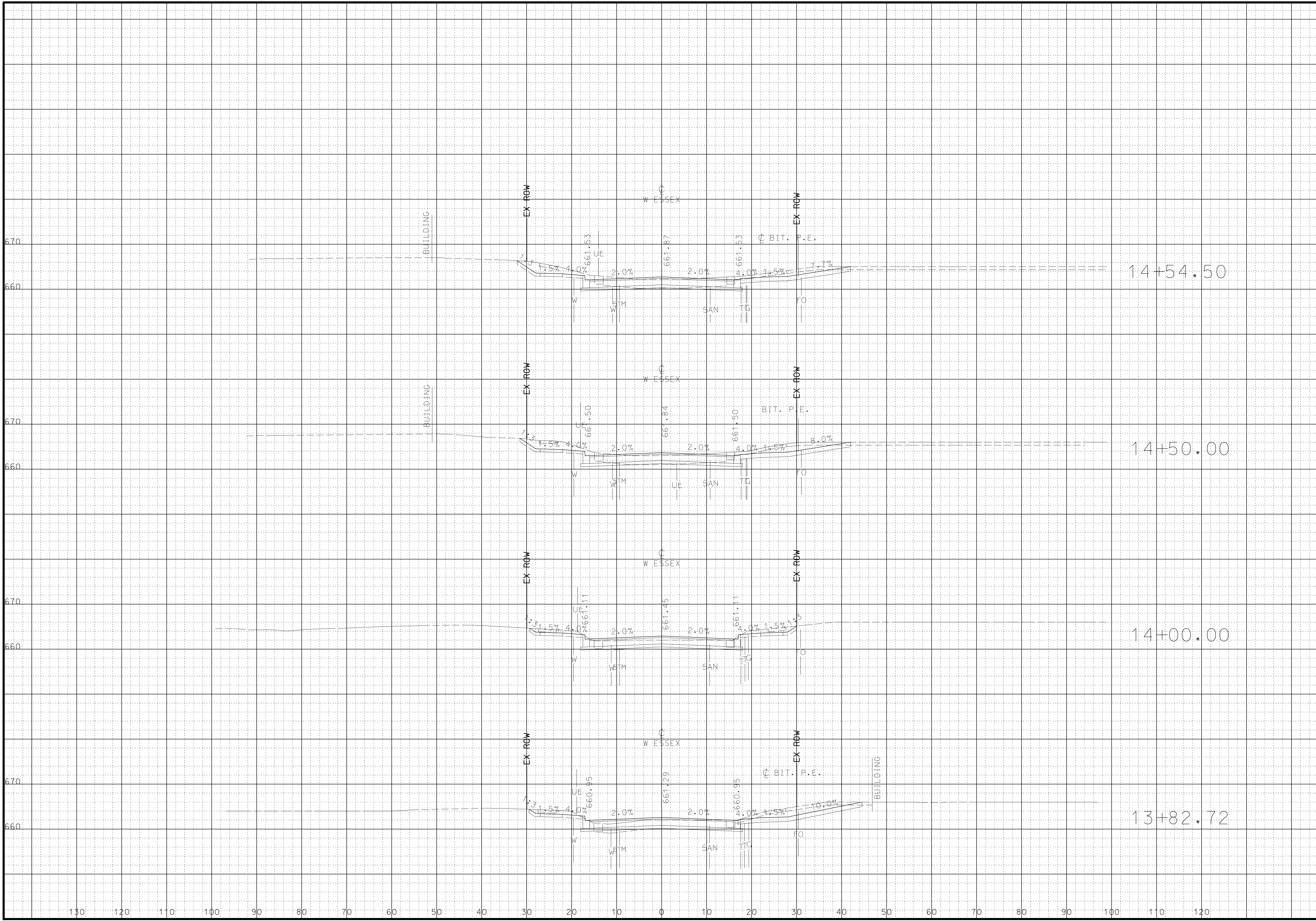


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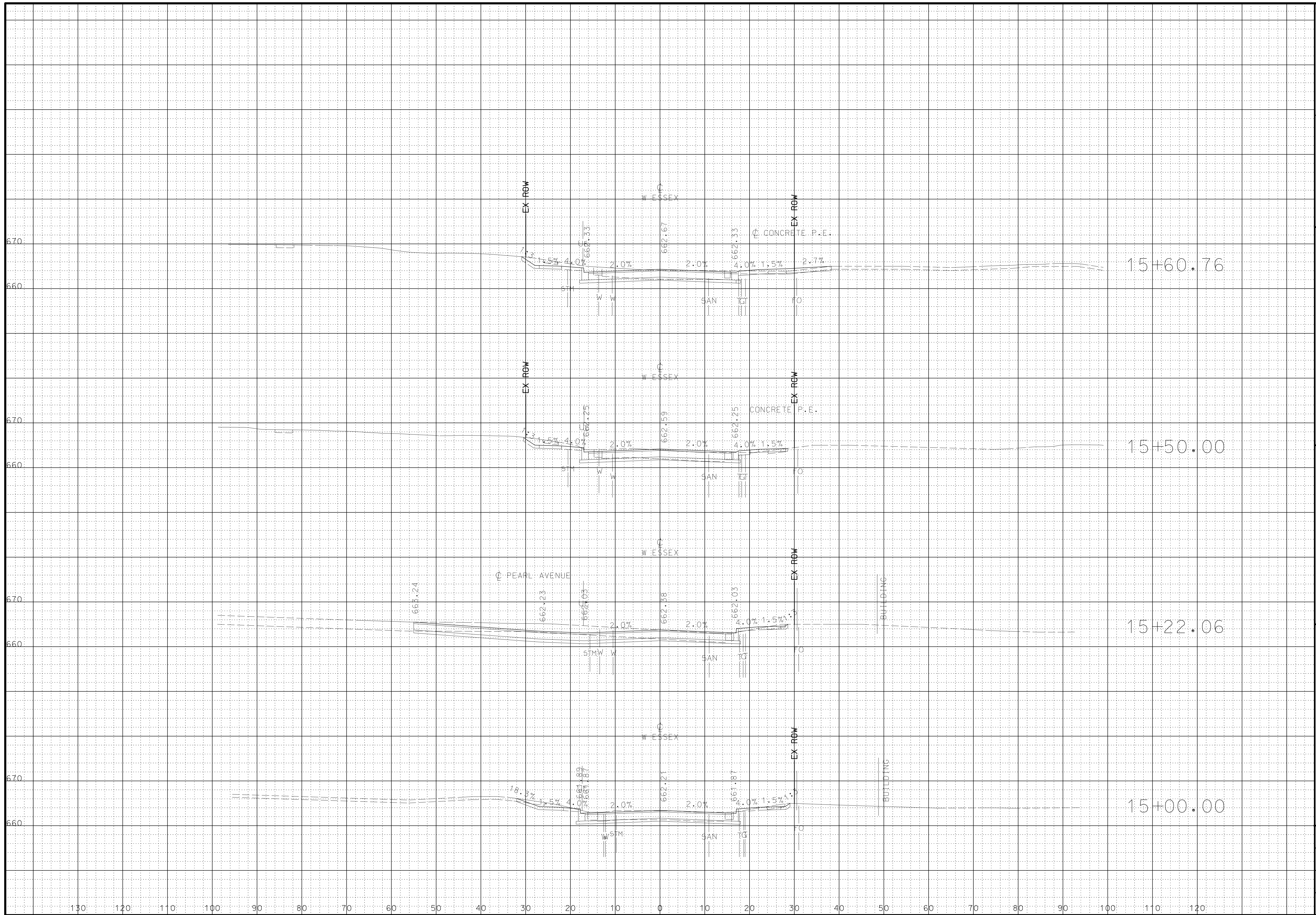
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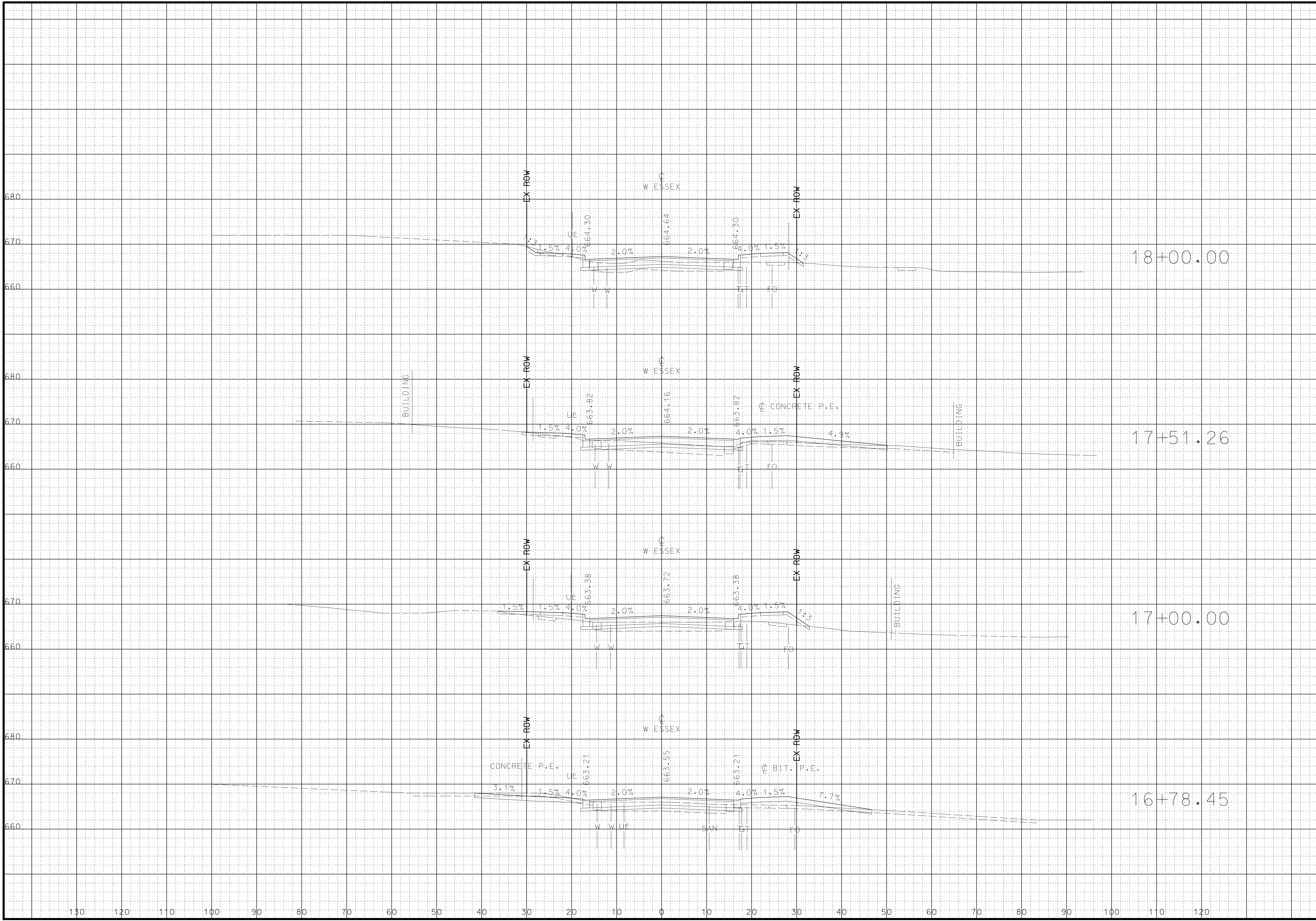


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**41 OF 48**

LOCHMUELLER PROJECT NO. 520-0140

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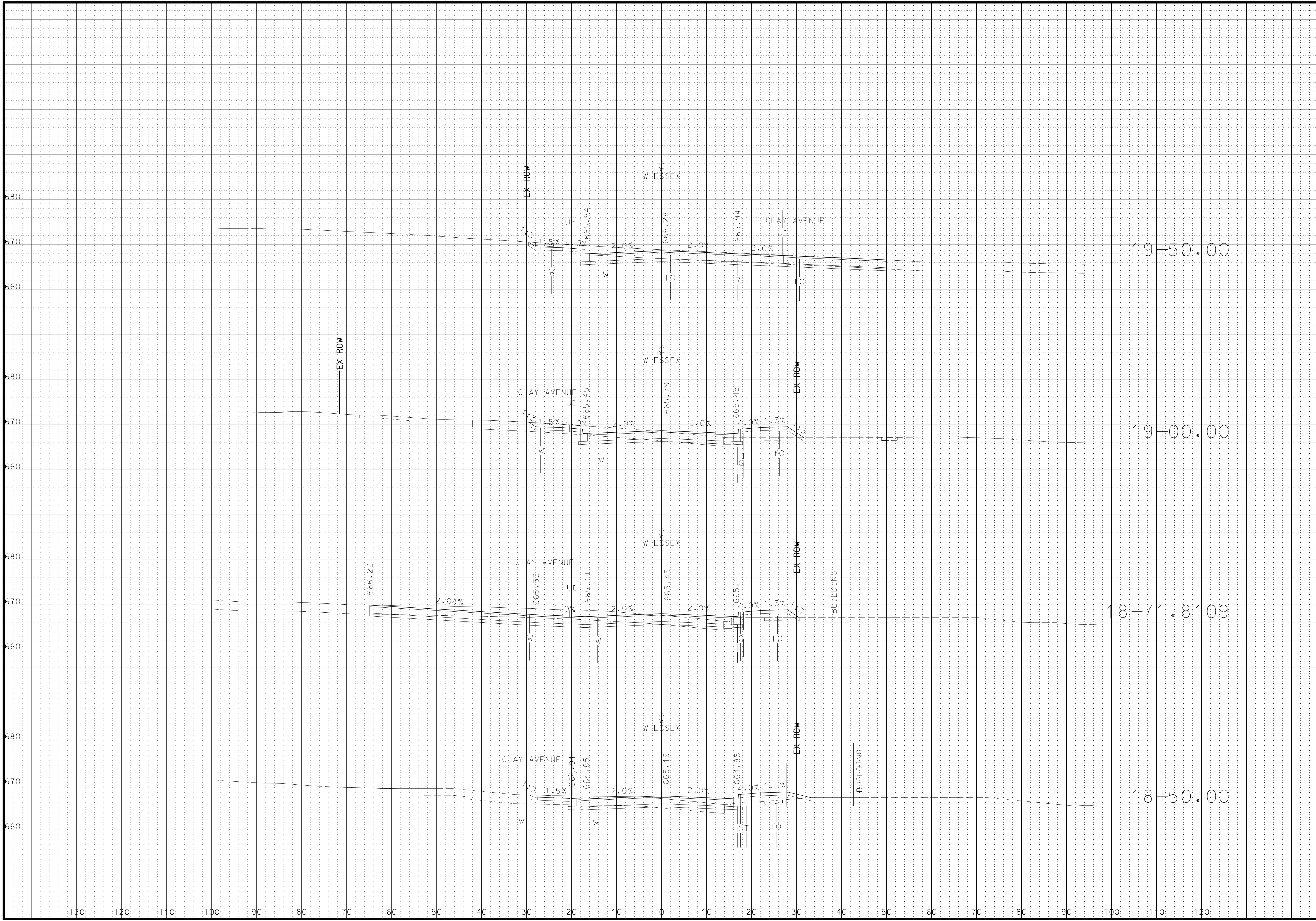
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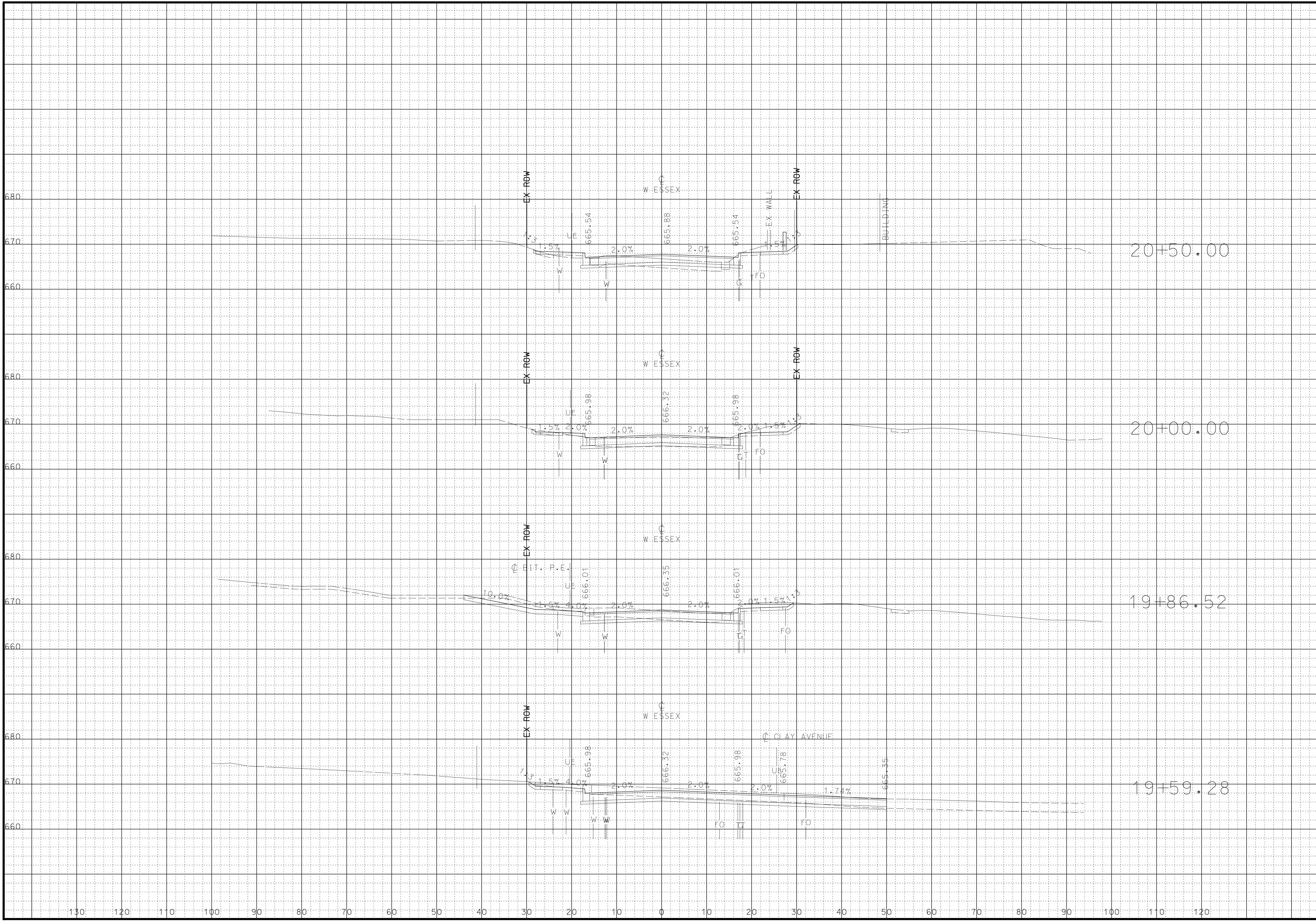
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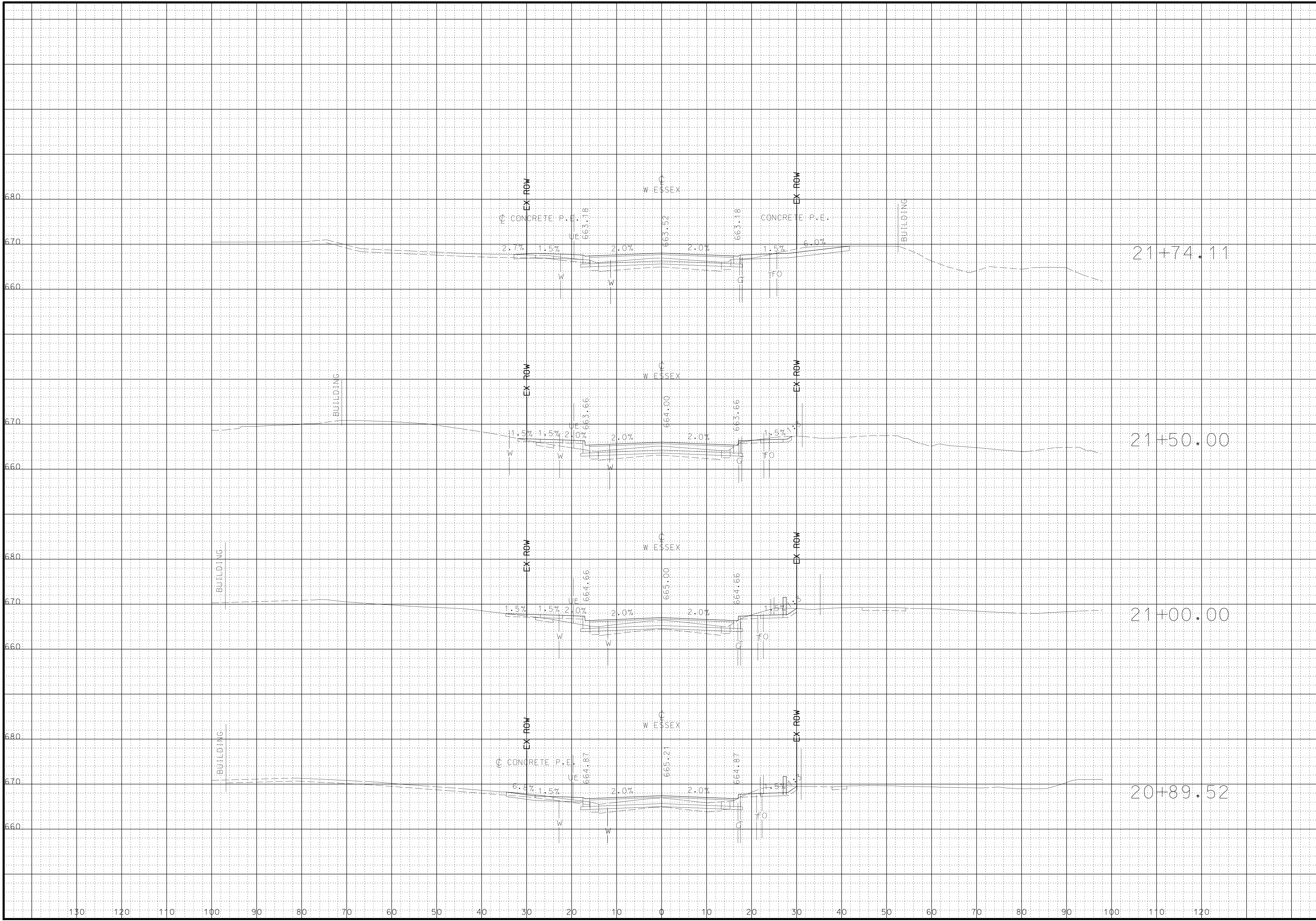
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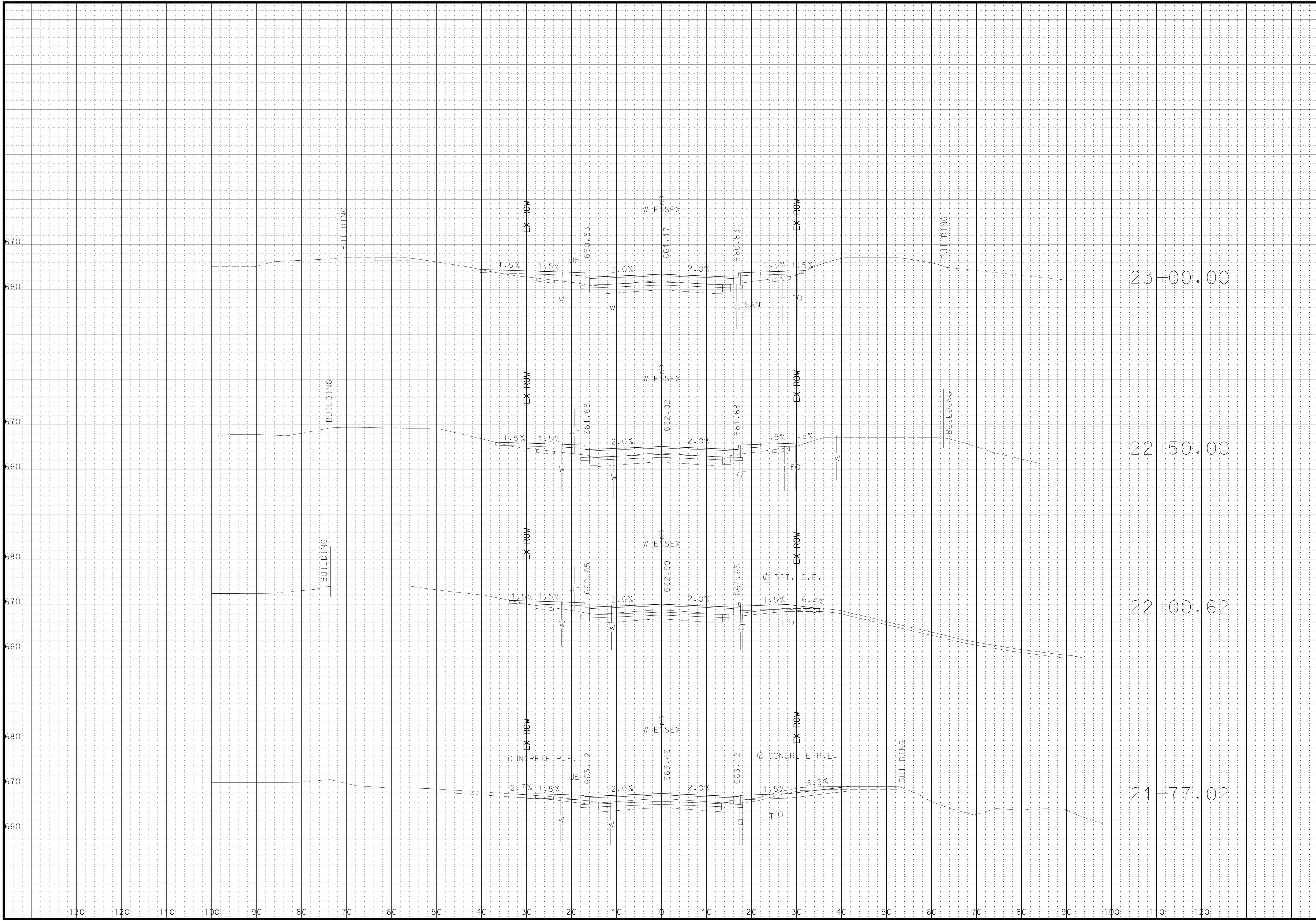
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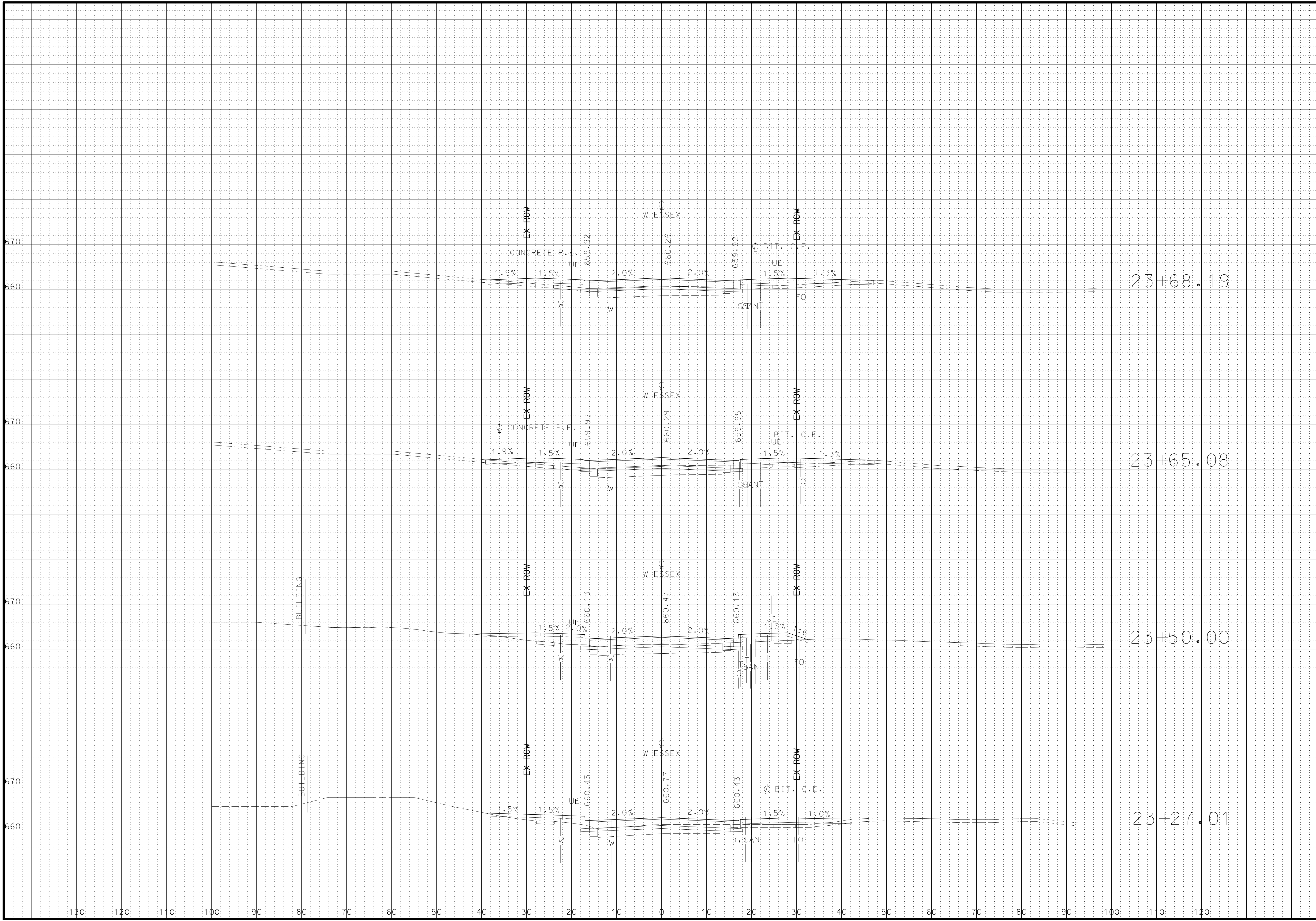


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LOCHMUELLER PROJECT NO. 520-0140

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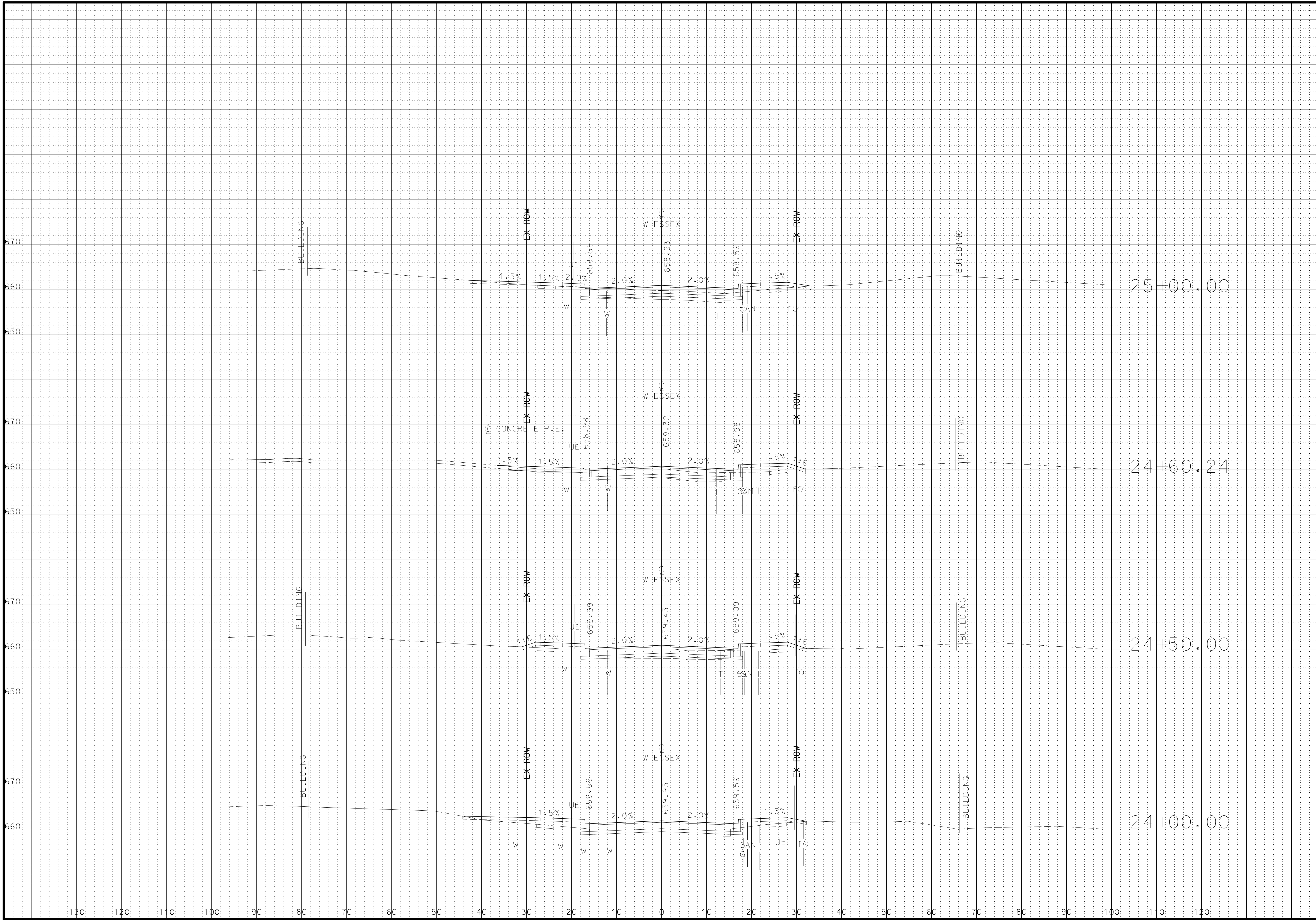
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**WEST ESSEX AVENUE  
RECONSTRUCTION**  
**CROSS SECTIONS  
WEST ESSEX AVENUE**

PROJECT/JOB NO.  
**STP-5502(610)**  
MSD BASE MAP  
**23M, 23N**  
DATE PREPARED  
**07/17/2023**  
SHEET  
**47 OF 48**

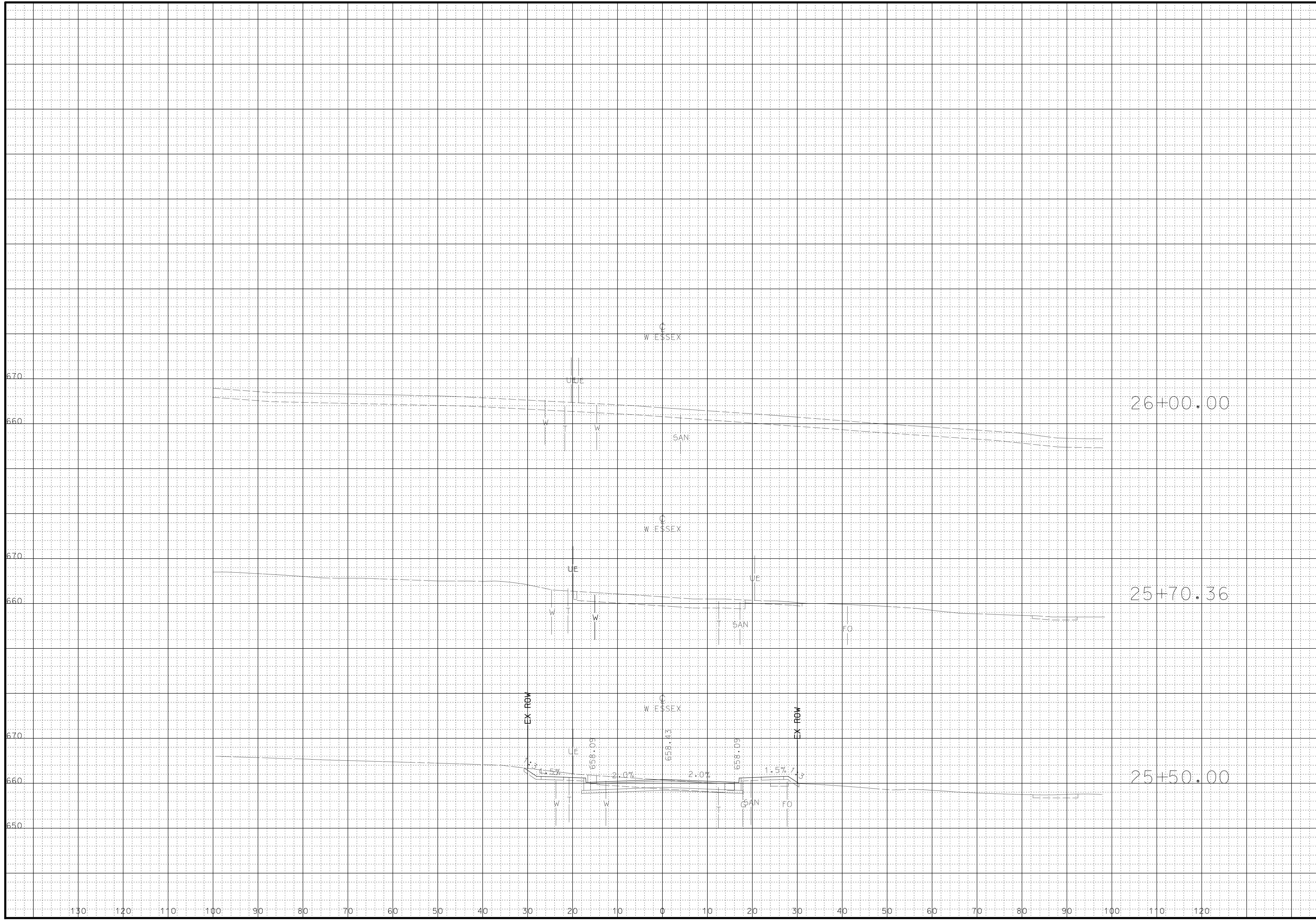


**PRELIMINARY  
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