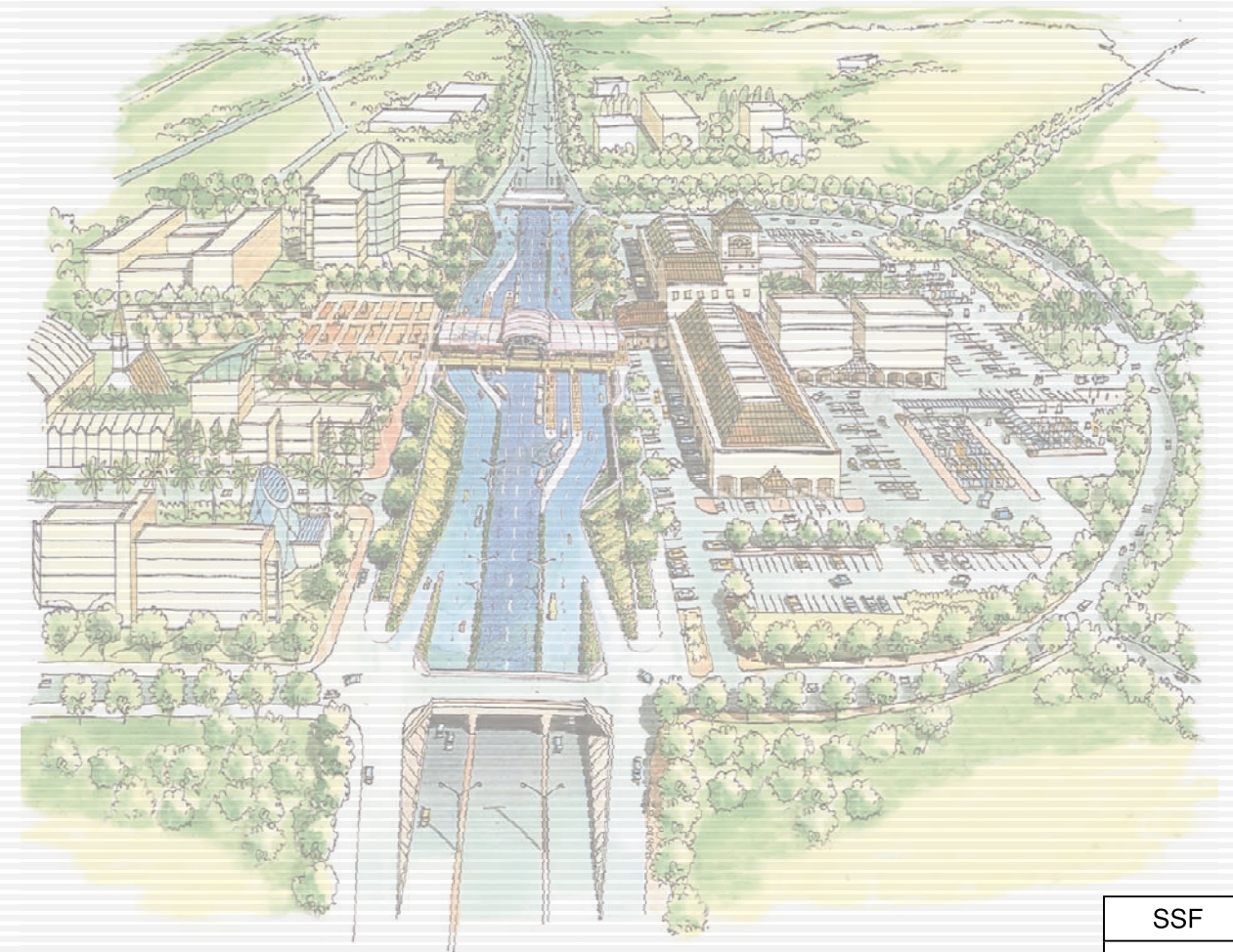


The Feasibility Study of the Proposed Cavite Busway System

Final Report **Drawings**

November 2002

ALMEC Corporation
Pacific Consultants International



JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
NATIONAL ECONOMIC AND DEVELOPMENT AUTHORITY,
THE REPUBLIC OF THE PHILIPPINES

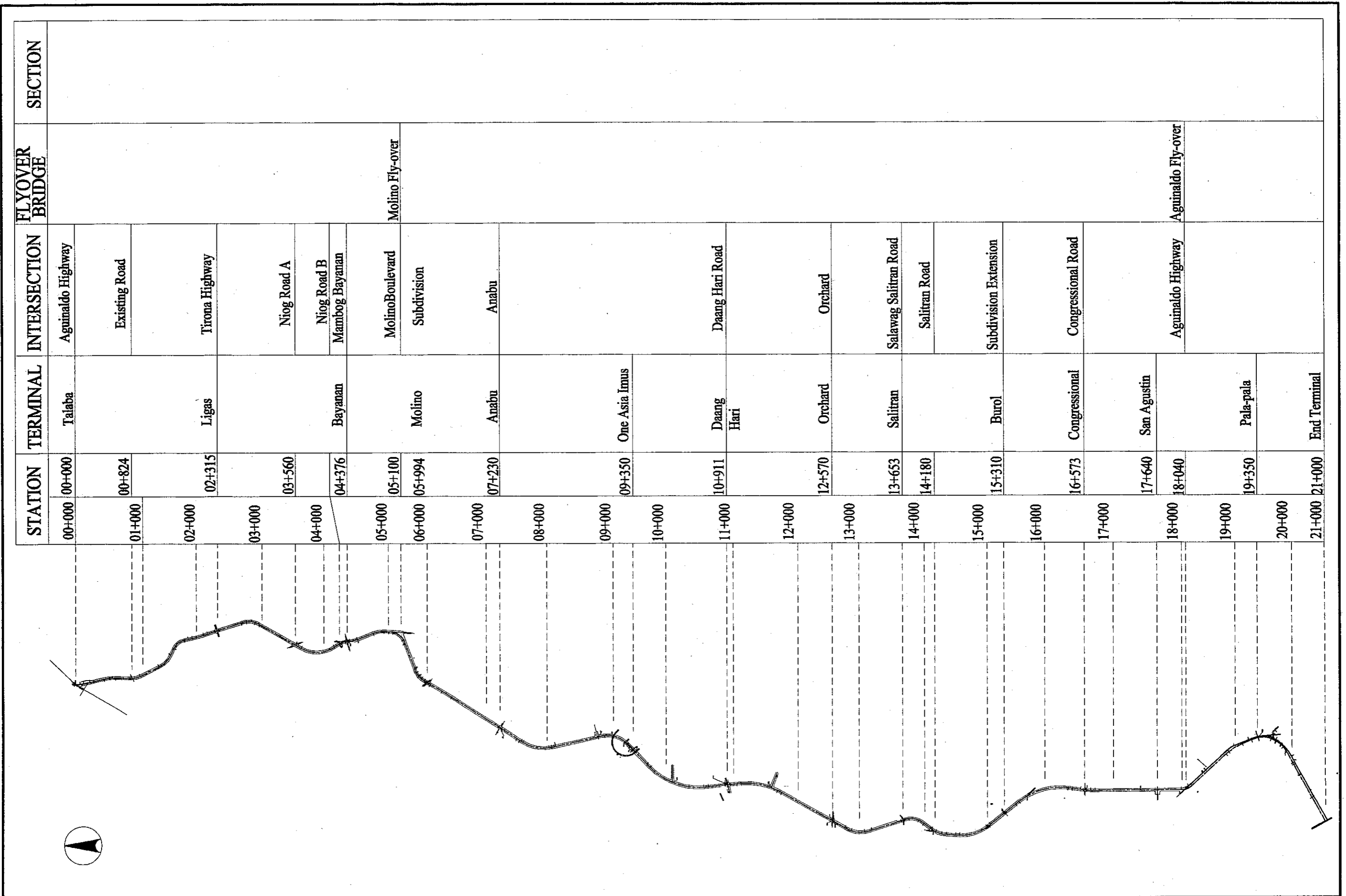
The Feasibility Study of the Proposed
Cavite Busway System

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ALMEC Corporation
Pacific Consultants International

A. GENERAL



| STATION | TERMINAL | INTERSECTION | FLYOVER BRIDGE | SECTION |
|---------|---------------|-------------------------------|-------------------|---------|
| 00+000 | Talaba | Aginaldo Highway | | |
| 00+824 | | Existing Road | | |
| 02+315 | Ligas | Tirona Highway | | |
| 03+560 | | Niog Road A | | |
| 04+376 | Bayanan | Niog Road B Mambog Bayanan | | |
| 05+100 | | Molino Boulevard | Molino Fly-over | |
| 05+994 | Molino | Subdivision | | |
| 07+230 | Anabu | Anabu | | |
| 09+350 | One Asia Imus | | | |
| 10+911 | Daang Hari | Daang Hari Road | | |
| 12+570 | Orchard | Orchard | | |
| 13+653 | Salitran | Salawag Salitran Road | | |
| 14+180 | | Salitran Road | | |
| 15+310 | Buroi | Subdivision Extension | | |
| 16+573 | Congressional | Congressional Road | | |
| 17+640 | San Agustin | | | |
| 18+040 | | Aginaldo Highway | Aginaldo Fly-over | |
| 19+350 | Pala-pala | | | |
| 21+000 | End Terminal | | | |

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Republic of the Philippines


JAPAN INTERNATIONAL
COOPERATION AGENCY
Japan

THE FEASIBILITY STUDY OF
THE PROPOSED CAVITE
BUSWAY SYSTEM

SHEET CONTENTS

GENERAL LAYOUT

SCALE

Drawing Number

A-01

INDEX OF DRAWINGS

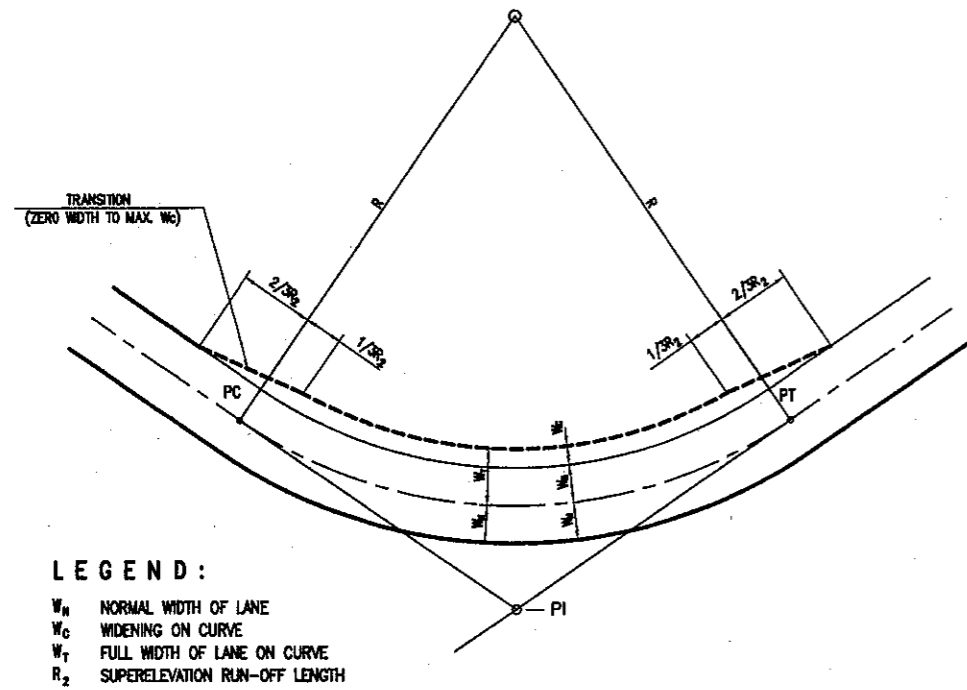
| DWG. NO. | DESCRIPTION | DWG. NO. | DESCRIPTION |
|-----------|---|-----------|--|
| A. | GENERAL | | |
| A-01 | GENERAL LAYOUT | C-11 | PLAN AND PROFILE, STA. 7+500 – STA. 8+250 |
| A-01A | INDEX OF DRAWINGS | C-12 | PLAN AND PROFILE, STA. 8+250 – STA. 9+000 |
| A-01B | INDEX OF DRAWINGS | C-13 | PLAN AND PROFILE, STA. 9+000 – STA. 9+750 |
| A-01C | INDEX OF DRAWINGS | C-14 | PLAN AND PROFILE, STA. 9+750 – STA. 10+500 |
| A-02 | GEOMETRIC STANDARDS | C-15 | PLAN AND PROFILE, STA. 10+500 – STA. 11+250 |
| A-03 | LEGENDS AND SYMBOLS | C-16 | PLAN AND PROFILE, STA. 11+250 – STA. 12+000 |
| | | C-17 | PLAN AND PROFILE, STA. 12+000 – STA. 12+750 |
| B. | TYPICAL SECTIONS AND ROAD DETAILS | C-18 | PLAN AND PROFILE, STA. 12+750 – STA. 13+500 |
| B-01 | TYPICAL BUSWAY SECTION (WIDENING OF EXISTING ROAD—MOLINO BLVD.) | C-19 | PLAN AND PROFILE, STA. 13+500 – STA. 14+250 |
| B-01A | TYPICAL CROSS SECTIONS – (NEW ALIGNMENT) | C-20 | PLAN AND PROFILE, STA. 14+250 – STA. 15+000 |
| B-02 | TYPICAL CROSS SECTIONS – RECLAIMED AREA | C-21 | PLAN AND PROFILE, STA. 15+000 – STA. 15+750 |
| B-03 | TYPICAL SECTIONS OF ALL CROSSING ROADS | C-22 | PLAN AND PROFILE, STA. 15+750 – STA. 16+500 |
| B-03A | TYPICAL SECTIONS OF ALL CROSSING ROADS | C-23 | PLAN AND PROFILE, STA. 16+500 – STA. 17+250 |
| B-03B | TYPICAL SECTIONS OF ALL CROSSING ROADS | C-24 | PLAN AND PROFILE, STA. 17+250 – STA. 18+000 |
| B-03C | TYPICAL SECTIONS AND DETAILS | C-25 | PLAN AND PROFILE, STA. 18+000 – STA. 18+750 |
| B-04 | PAVEMENT MARKING DETAILS | C-26 | PLAN AND PROFILE, STA. 18+750 – STA. 19+500 |
| B-05 | ROAD SIGNS AND PAVEMENT MARKINGS | C-27 | PLAN AND PROFILE, STA. 19+500 – STA. 20+250 |
| | | C-28 | PLAN AND PROFILE, STA. 20+250 – STA. 21+000 |
| C. | PLAN AND PROFILE | D. | DRAINAGE |
| C-01 | PLAN AND PROFILE, STA. 0+000 – STA. 0+750 | D-01 | DRAINAGE SECTIONS |
| C-02 | PLAN AND PROFILE, STA. 0+750 – STA. 1+500 | D-01A | DETAIL (FILL SECTION) |
| C-03 | PLAN AND PROFILE, STA. 1+500 – STA. 2+250 | D-02 | DRAINAGE DETAILS |
| C-04 | PLAN AND PROFILE, STA. 2+250 – STA. 3+000 | D-03 | HEADWALL DETAILS FOR SINGLE PIPE CULVERT |
| C-05 | PLAN AND PROFILE, STA. 3+000 – STA. 3+750 | D-04 | TYPICAL CULVERT SECTION, DETAIL OF BOX CULVERT, CURB INLET & MANHOLE |
| C-06 | PLAN AND PROFILE, STA. 3+750 – STA. 4+500 | D-05 | PLAN AND PROFILE, STA. 0+000 – STA. 0+750 |
| C-07 | PLAN AND PROFILE, STA. 4+500 – STA. 5+250 | D-06 | PLAN AND PROFILE, STA. 0+750 – STA. 1+500 |
| C-08 | PLAN AND PROFILE, STA. 5+250 – STA. 6+000 | | |
| C-09 | PLAN AND PROFILE, STA. 6+000 – STA. 6+750 | | |
| C-10 | PLAN AND PROFILE, STA. 6+750 – STA. 7+500 | | |

INDEX OF DRAWINGS

| DWG. NO. | DESCRIPTION | DWG. NO. | DESCRIPTION |
|----------|---|-----------|---|
| | | E. | INTERSECTION DETAILS |
| D-07 | PLAN AND PROFILE, STA. 1+500 – STA. 2+250 | E-01 | INTERSECTION DETAILS – NIOG ROAD |
| D-08 | PLAN AND PROFILE, STA. 2+250 – STA. 3+000 | E-02 | INTERSECTION DETAILS – MAMBOG-BAYANAN ROAD |
| D-09 | PLAN AND PROFILE, STA. 3+000 – STA. 3+750 | E-03 | INTERSECTION DETAILS – MOLINO BLVD. – BUSWAY |
| D-10 | PLAN AND PROFILE, STA. 3+750 – STA. 4+500 | E-04 | INTERSECTION DETAILS – SUBDIVISION ROAD OVERPASS |
| D-11 | PLAN AND PROFILE, STA. 4+500 – STA. 5+250 | E-05 | INTERSECTION DETAILS – CITA ITALIA RD |
| D-12 | PLAN AND PROFILE, STA. 5+250 – STA. 6+000 | E-06 | INTERSECTION DETAILS – TIRONA HIGHWAY |
| D-13 | PLAN AND PROFILE, STA. 6+000 – STA. 6+750 | E-07 | INTERSECTION DETAILS – ORCHARD ROAD OVERPASS |
| D-14 | PLAN AND PROFILE, STA. 6+750 – STA. 7+500 | E-08 | INTERSECTION DETAILS – SALAWAG-SALITRAN ROAD |
| D-15 | PLAN AND PROFILE, STA. 7+500 – STA. 8+250 | E-09 | INTERSECTION DETAILS – CONGRESSIONAL ROAD |
| D-16 | PLAN AND PROFILE, STA. 8+250 – STA. 9+000 | E-10 | INTERSECTION DETAILS – AGUINALDO HIGHWAY – BUSWAY |
| D-17 | PLAN AND PROFILE, STA. 9+000 – STA. 9+750 | | |
| D-18 | PLAN AND PROFILE, STA. 9+750 – STA. 10+500 | F. | STRUCTURES |
| D-19 | PLAN AND PROFILE, STA. 10+500 – STA. 11+250 | F-00 | STRUCTURAL DESIGN CRITERIA |
| D-20 | PLAN AND PROFILE, STA. 11+250 – STA. 12+000 | F-01A | PLAN – MOLINO FLYOVER |
| D-21 | PLAN AND PROFILE, STA. 12+000 – STA. 12+750 | F-01B | PROFILE – MOLINO FLYOVER |
| D-22 | PLAN AND PROFILE, STA. 12+750 – STA. 13+500 | F-01C | PLAN, ELEVATION AND SECTIONS – MOLINO FLYOVER |
| D-23 | PLAN AND PROFILE, STA. 13+500 – STA. 14+250 | F-02A | PLAN – AGUINALDO FLYOVER |
| D-24 | PLAN AND PROFILE, STA. 14+250 – STA. 15+000 | F-02B | PROFILE – AGUINALDO FLYOVER |
| D-25 | PLAN AND PROFILE, STA. 15+000 – STA. 15+750 | F-02C | PLAN, ELEVATION AND SECTIONS – AGUINALDO FLYOVER |
| D-26 | PLAN AND PROFILE, STA. 15+750 – STA. 16+500 | F-03A | PLAN AND ELEVATION – IMUS BRIDGE |
| D-27 | PLAN AND PROFILE, STA. 16+500 – STA. 17+250 | F-03B | SECTIONS – IMUS BRIDGE |
| D-28 | PLAN AND PROFILE, STA. 17+250 – STA. 18+000 | F-04A | PLAN AND ELEVATION – ILANG-ILANG BRIDGE |
| D-29 | PLAN AND PROFILE, STA. 18+000 – STA. 18+750 | F-04B | SECTIONS – ILANG-ILANG BRIDGE |
| D-30 | PLAN AND PROFILE, STA. 18+750 – STA. 19+500 | F-05 | PLAN, ELEVATION AND SECTIONS – GOVERNOR'S DRIVE |
| D-31 | PLAN AND PROFILE, STA. 19+500 – STA. 20+250 | | |

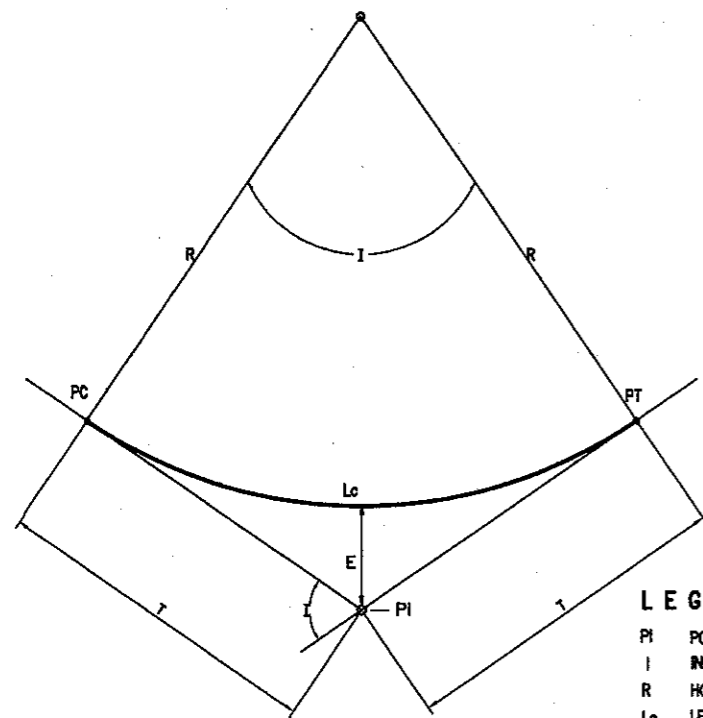
INDEX OF DRAWINGS

| DWG. NO. | DESCRIPTION | DWG. NO. | DESCRIPTION |
|-----------|---|-----------|--|
| G. | BUS TERMINAL AND BUS STOP FACILITIES | | |
| G-01 | TALABA TERMINAL | I-3-A | GENERAL LAYOUT – OPTION C |
| G-02 | LIGAS BUS STOP | I-3-B | PLAN – OPTION C |
| G-03 | MAMBOG-BAYANAN BUS STOP | I-3-C | PLAN – OPTION C |
| G-04 | MOLINO BUS STOP | I-3-D | PROFILE – OPTION C |
| G-05 | ANABU BUS STOP | I-3-E | PROFILE – OPTION C |
| G-06 | ONE ASIA BUS STOP | I-3-F | PLAN, ELEVATION AND SECTIONS – OPTION C |
| G-07 | DAANG-HARI BUS STOP | I-3-G | PLAN, ELEVATION AND SECTIONS – OPTION C |
| G-08 | ORCHARD BUS STOP | I-4-A | GENERAL LAYOUT – OPTION D |
| G-09 | SALAWAG-SALITRAN BUS STOP | I-4-B | PLAN – OPTION D |
| G-10 | BUROL BUS STOP | I-4-C | PLAN – OPTION D |
| G-11 | CONGRESSIONAL BUS STOP | I-4-D | PROFILE – OPTION D |
| G-12 | SAN AGUSTIN BUS STOP | I-4-E | PLAN, ELEVATION AND SECTIONS – OPTION D |
| G-13 | PALA-PALA BUS STOP | | |
| G-14 | SOUTHERN TERMINAL | | |
| G-15 | TRANSITION LANE DETAILS | | |
| I. | BACCOOR ALIGNMENT OPTIONS | | |
| I-2-A | GENERAL LAYOUT – OPTION B-3 | | |
| I-2-B | PLAN – OPTION B-3 | | |
| I-2-C | PLAN – OPTION B-3 | | |
| I-2-D | PLAN – OPTION B-3 | | |
| I-2-E | PROFILE – OPTION B-3 | | |
| I-2-F | PROFILE – OPTION B-3 | | |
| I-2-G | PLAN, ELEVATION AND SECTIONS – OPTION B-3 | | |
| I-2-H | PLAN, ELEVATION AND SECTIONS – OPTION B-3 | | |
| | | S. | GOVERNOR'S DRIVE SCHEMES |
| | | S1-1 | AGUINALDO HIGHWAY – GOVERNOR'S DRIVE – INTERSECTION LAYOUT (AGUINALDO HIGHWAY FLYOVER) |
| | | S1-2 | PROFILE – AGUINALDO HIGHWAY FLYOVER |
| | | S1-3 | ENLARGED PLAN – AGUINALDO HIGHWAY FLYOVER |
| | | S2-1 | AGUINALDO HIGHWAY-GOVERNOR'S DRIVE-INTERSECTION LAYOUT (GOVERNOR'S UNDERPASS) |
| | | S2-2 | ENLARGED PLAN – GOVERNOR'S UNDERPASS |
| | | S2-3 | ENLARGED PLAN – GOVERNOR'S UNDERPASS |
| | | S2-4 | PROFILE – GOVERNOR'S DRIVE UNDERPASS |



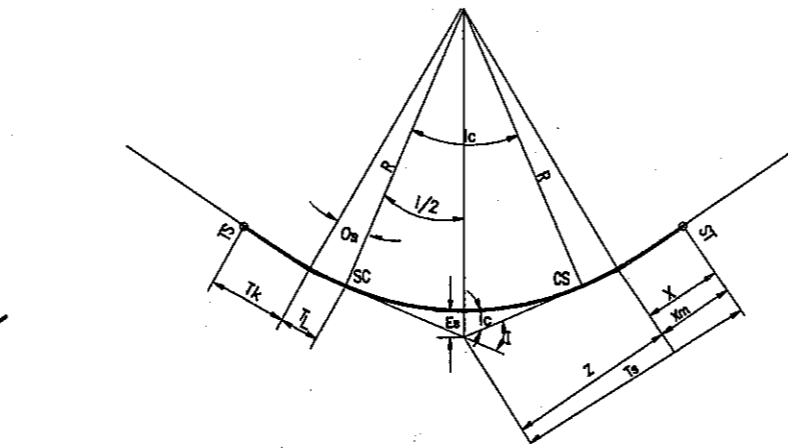
LEGEND:
 W_n NORMAL WIDTH OF LANE
 W_c WIDENING ON CURVE
 W_t FULL WIDTH OF LANE ON CURVE
 R_2 SUPERELEVATION RUN-OFF LENGTH

2 WIDENING ON SIMPLE CURVES
 A-02



LEGEND:
 PI POINT OF INTERSECTION
 I INTERSECTION ANGLE (CENTRAL ANGLE)
 R HORIZONTAL RADIUS
 L_c LENGTH OF CIRCULAR CURVE
 E EXTERNAL DISTANCE
 T TOTAL TANGENT DISTANCE
 PC POINT OF CURVATURE
 PT POINT OF TANGENCY

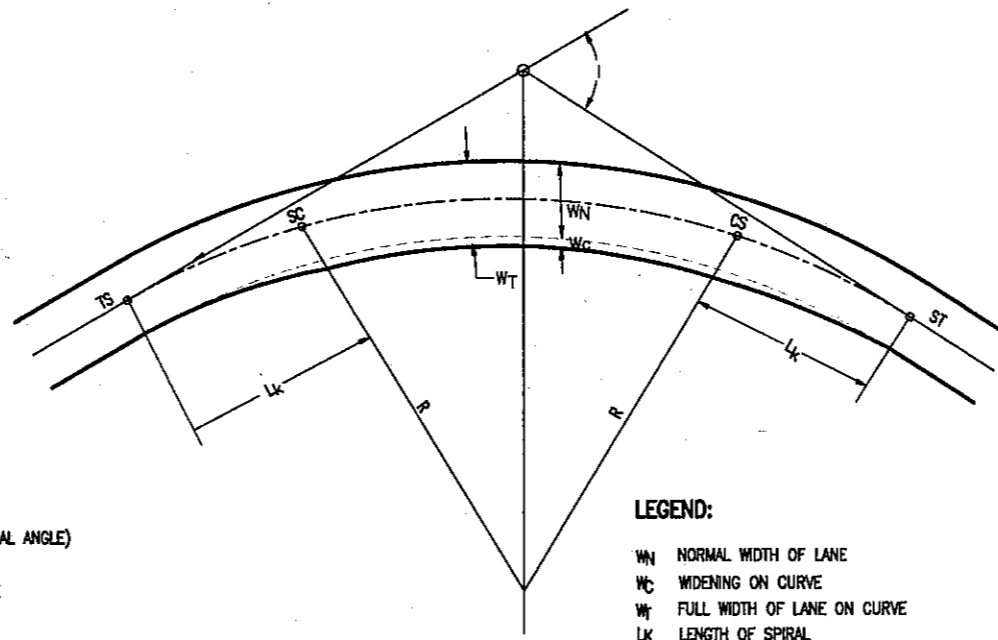
1 HORIZONTAL CURVE (CIRCULAR)
 A-02



4 HORIZONTAL CURVE WITH TRANSITION (CLOTHOID-SPIRAL CURVE)
 A-02

LEGEND:
 PI POINT OF INTERSECTION
 I INTERSECTION ANGLE
 θ_s SPIRAL ANGLE
 ΔR OFFSET BETWEEN CIRCULAR CURVE & TANGENT
 A PARAMETER OF CLOTHOID
 R HORIZONTAL RADIUS
 X_m LENGTHENING OF TANGENT DUE TO INSERTION OF SPIRAL
 X,Y COORDINATES OF POINTS BOC & ECC WITH RESPECT TO TANGENT
 I_c INTERSECTION ANGLE OF CIRCULAR CURVE
 L_c LENGTH OF CIRCULAR CURVE
 TL LONG TANGENT OF SPIRAL
 TK SHORT TANGENT OF SPIRAL
 T_s TOTAL TANGENT DISTANCE
 Lk LENGTH OF SPIRAL
 TS TANGENT TO SPIRAL
 SC SPIRAL TO CIRCULAR CURVE
 CS CIRCULAR CURVE TO SPIRAL
 ST SPIRAL TO TANGENT

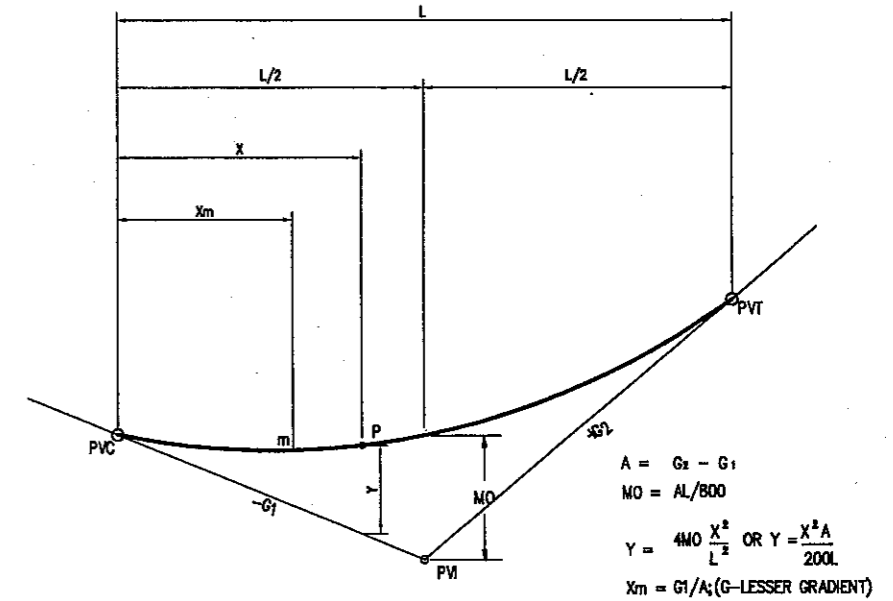
HORIZONTAL CURVE WITH TRANSITION (CLOTHOID)



LEGEND:
 W_n NORMAL WIDTH OF LANE
 W_c WIDENING ON CURVE
 W_t FULL WIDTH OF LANE ON CURVE
 L_k LENGTH OF SPIRAL

WIDENING OF PAVEMENT ON CURVE, W_c (m) = $50/R$

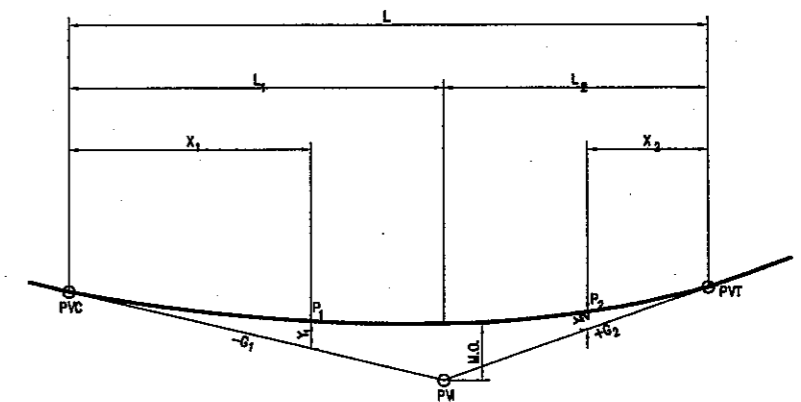
3 WIDENING ON TRANSITION (CLOTHOID CURVES)
 A-02



$A = G_2 - G_1$
 $MO = AL/800$
 $Y = 4MO \frac{X^2}{L^2}$ OR $Y = \frac{X^2 A}{200L}$
 $X_m = G_1/A_1$ (G-LESSER GRADIENT)

6 VERTICAL PARABOLIC CURVE (SYMMETRICAL)
 A-02

LEGEND:
 PVC POINT OF VERTICAL CURVATURE
 PVT POINT OF VERTICAL TANGENCY
 PVI POINT OF VERTICAL INTERSECTION
 L LENGTH OF PARABOLIC VERTICAL CURVE
 A ALGEBRAIC DIFFERENCES OF GRADES IN PERCENT
 MO MIDDLE ORDINATE
 X DISTANCE AT ANY POINT P FROM PVC OR PVT
 Y CORRECTION OR OFFSET AT POINT P
 X_m DISTANCE OF HIGHEST OR LOWEST POINT m ON THE CURVE FROM PVC OR PVT



$MO = A_1 L_2 / 200L$
 $Y_1 = MO X_1^2 / L_1^2$
 $Y_2 = MO X_2^2 / L_2^2$

5 VERTICAL PARABOLIC CURVE (UNSYMMETRICAL)
 A-02

LEGEND, SYMBOLS AND ABBREVIATIONS

1. LEGEND & SYMBOLS

1.1 EXISTING TOPOGRAPHIC FEATURES

| | | | |
|-----------------------------------|--|-----------------|--|
| 1. EXISTING ROAD | | 11. BRIDGE | |
| 2. RIVER | | 12. NORTH ARROW | |
| 3. HOUSE/ BUILDING | | 13. WATER TANK | |
| 4. IRRIGATION CANAL | | | |
| 5. WALL | | | |
| 6. CONTOUR LINES (ELEV. AS SHOWN) | | | |
| 7. VEGETATION LINE | | | |
| 8. RICELAND | | | |
| 9. GRASS | | | |
| 10. TOWER | | | |

1.2 NEW DESIGN FEATURES

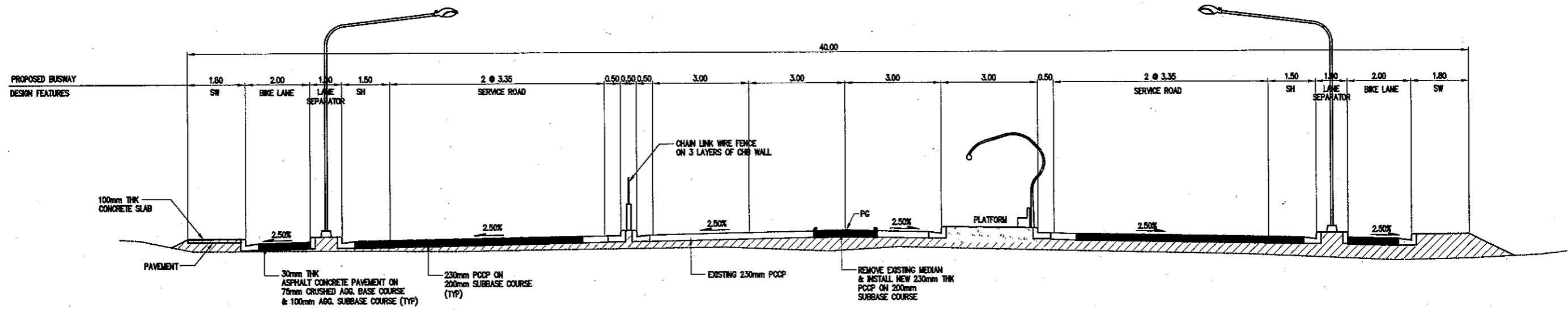
P L A N

| | | | |
|----------------------------------|--|--|--|
| 1. CENTERLINE | | | |
| 2. RIGHT-OF-WAY LIMIT | | | |
| 3. BRIDGE | | | |
| 4. SYMMETRICAL | | | |
| 5. SINGLE BARREL BOX CULVERT | | | |
| 6. DOUBLE BARREL BOX CULVERT | | | |
| 7. TRIPLE BARREL BOX CULVERT | | | |
| 8. SINGLE BARREL PIPE CULVERT | | | |
| LONGITUDINAL PROFILE | | | |
| 1. PROFILE GRADE/ FINISHED GRADE | | | |
| 2. EXISTING GROUND LINE | | | |
| 3. WATER LEVEL | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

2. ABBREVIATIONS

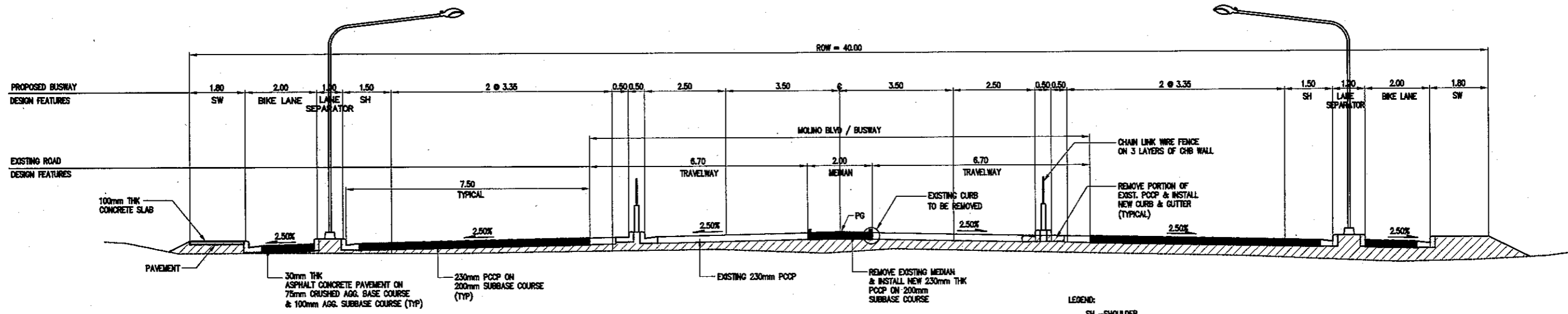
| | | |
|---|--|--|
| <p>ABUT ABUTMENT AH AHEAD/AUGER HOLE APPROX. APPROXIMATE AZIM AZIMUTH ⊙ AT</p> <p>BK BACK B BASELINE BRG BEARING BEG BEGINNING BM BENCH MARK BIT BITUMINOUS BH BOREHOLE</p> <p>CB CATCH BASIN C CENTERLINE cm CENTIMETRE CLR CLEAR COMB COMBINATION CONC. CONCRETE CONST. CONSTRUCT/CONSTRUCTION CULV. CULVERT m³ CUBIC METRE CL CLASS</p> <p>D DEGREE OF CURVE DFL DESIGN FLOOD LEVEL DET DETAIL DIA, ∅ DIAMETER DIST DISTANCE DS (C)-A RECTANGULAR DITCH W/ COVER DS (C)-B RECTANGULAR DITCH W/O COVER DWG DRAWING</p> <p>e FULL SUPERELEVATION EA EACH E EAST/EXTERNAL DISTANCE ELEV. ELEVATION EQ EQUAL EXTG. EXISTING EXT EXTENSION</p> <p>FG FINISHED GRADE F FLOWLINE FTG FOOTING</p> <p>g GRADE GEN GENERAL GRD GROUND</p> <p>Hw HEADWALL HA. HECTARE HP HIGH POINT HOR HORIZONTAL</p> | <p>I INTERSECTION ANGLE Ic CENTRAL ANGLE OF CIRCULAR CURVE IIE INLET INVERT ELEVATION ∞ INFINITY</p> <p>KG KILOGRAM KM KILOMETER KPH KILOMETER PER HOUR</p> <p>LT LEFT LT FWD LEFT FORWARD L TOTAL LENGTH Lc LENGTH OF CIRCULAR CURVE LM LINEAR METRE LP LOW POINT LWL LOW WATER LEVEL LS LUMP SUM</p> <p>MAX MAXIMUM MSL MINIMUM SEA LEVEL MT, METRIC TON m METRE MIN. MINIMUM mm MILLIMETRE MON MONUMENT MRW MASONRY RETAINING WALL</p> <p>N NORTHING(S) NC NORMAL CROWN SLOPE NA NOT APPLICABLE NTS NOT TO SCALE NO. NUMBER & AND</p> <p>OWL ORDINARY WATER LEVEL OIE OUTLET INVERT ELEVATION</p> <p>PVMT PAVEMENT PI POINT OF INTERSECTION PC POINT OF CURVATURE PT POINT OF TANGENCY PVI POINT OF VERTICAL INTERSECTION PVC POINT OF VERTICAL CURVATURE PVT POINT OF VERTICAL TANGENCY PCC PORTLAND CEMENT CONCRETE PSC PRESTRESSED CONCRETE % PERCENT PVRC POINT OF VERTICAL REVERSE CURVATURE PVCC POINT OF VERTICAL COMPOUND CURVE</p> <p>QTY QUANTITY</p> | <p>R RADIUS REF REFERENCE RP REFERENCE POINT REINF REINFORCED/REINFORCEMENT RCBC REINFORCED CONC. BOX CULVERT RCPC REINFORCED CONC. PIPE CULVERT RCW REINFORCED CONC. WALL REQD REQUIRED RET. WALL RETAINING WALL RT RIGHT RT FWD RIGHT FORWARD ROW RIGHT-OF-WAY RDWY ROADWAY</p> <p>s SLOPE SHT SHEET SLDR SHOULDER SS SIDE SLOPE SPL SPECIAL S SOUTH STD STANDARD STA STATION STR STRAIGHT</p> <p>T TANGENT TP TEST PIT THK THICK TYP TYPICAL</p> <p>VAR VARIABLE VERT VERTICAL VC VERTICAL CURVE</p> <p>w WIDTH Wc PAVEMENT WIDTH ON CURVE Wt PAVEMENT WIDTH ON TANGENT w/ WITH Ww WINGWALL</p> |
|---|--|--|

**B. TYPICAL SECTIONS
AND DETAILS**



1B BUS STOP SECTION
 SCALE: N T S

LEGEND:
 SH - SHOULDER
 SW - SIDEWALK

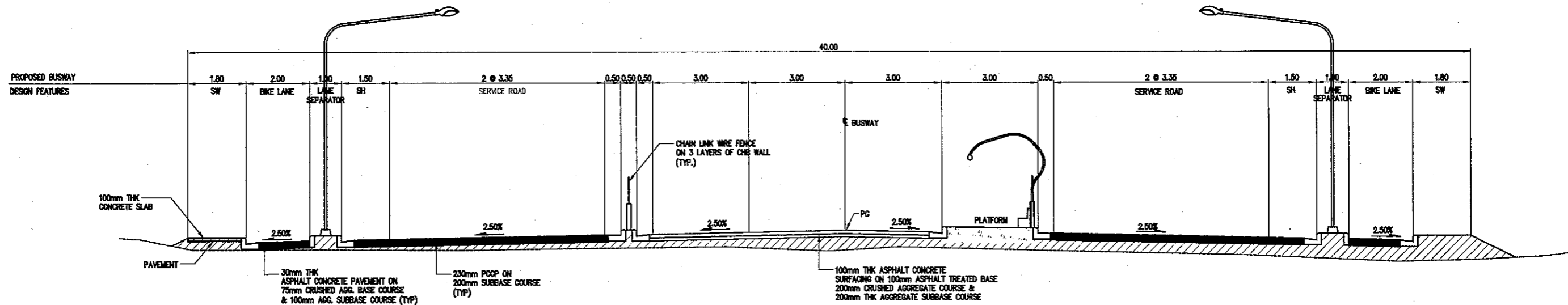


1A ORDINARY SECTION
 SCALE: N T S

LEGEND:
 SH - SHOULDER
 SW - SIDEWALK

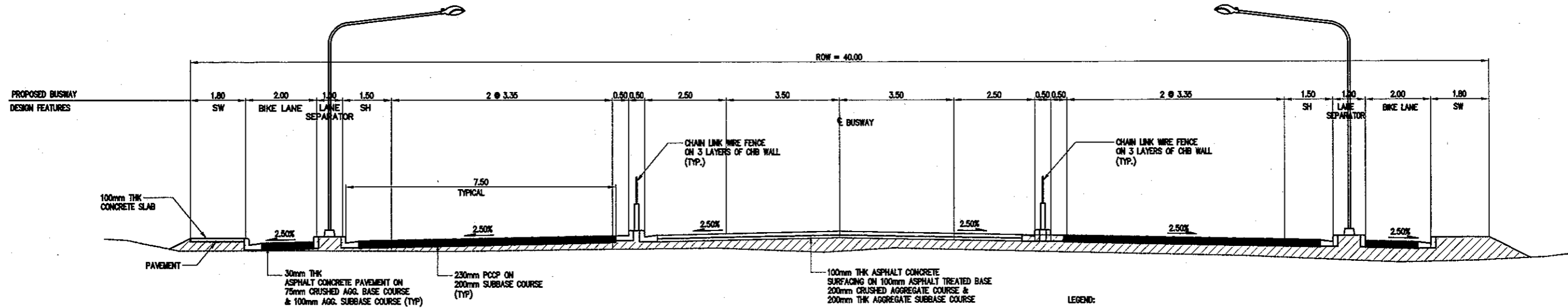
1 TYPICAL BUSWAY SECTION
 (WIDENING OF EXISTING ROAD) - MOLINO BLVD.
 SCALE: N T S

| | | | | | | | |
|---|---|---|--|--|--|------------------------|--------------------------------|
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|---|---|---|--|--|--|------------------------|--------------------------------|






BUS STOP SECTION
(NEW ALIGNMENT)
2B
B-01A SCALE: N T S

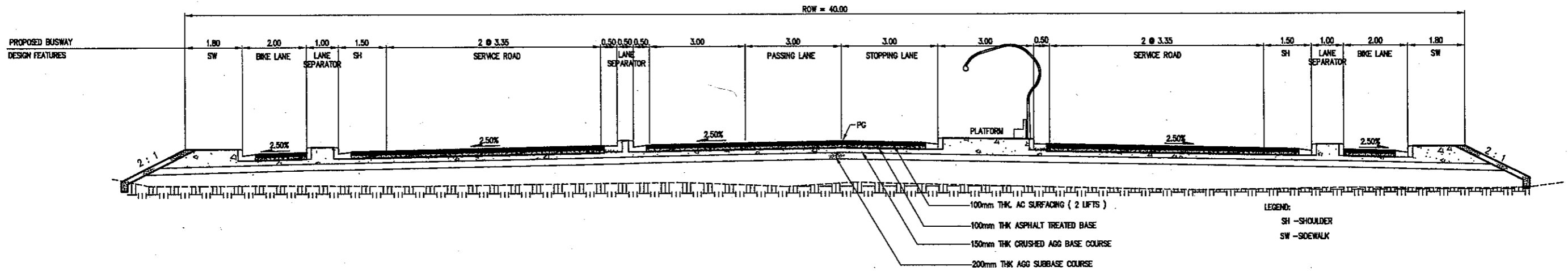
LEGEND:
SH - SHOULDER
SW - SIDEWALK



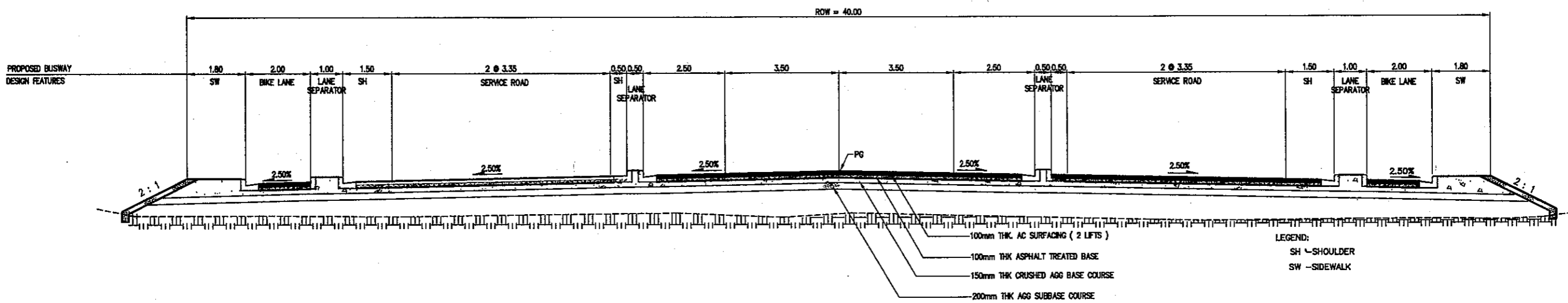
TYPICAL BUSWAY SECTION
(NEW ALIGNMENT)
2A
B-01A SCALE: N T S

LEGEND:
SH - SHOULDER
SW - SIDEWALK

| | | | | | | | |
|---|--|--|---|--|---|------------------------|---------------------------------|
| <p>ALMEC ALMEC Corporation</p> | <p> Pacific Consultants International</p> | <p> NATIONAL ECONOMIC AND DEVELOPMENT AUTHORITY Republic of the Philippines</p> | <p> JAPAN INTERNATIONAL COOPERATION AGENCY Japan</p> | <p>THE FEASIBILITY STUDY OF THE PROPOSED CAVITE BUSWAY SYSTEM</p> | <p>SHEET CONTENTS TYPICAL BUSWAY SECTION (NEW ALIGNMENT)</p> | <p>SCALE N T S</p> | <p>Drawing Number B-01A</p> |
|---|--|--|---|--|---|------------------------|---------------------------------|






1B BUS STOP SECTION
SCALE: N T S



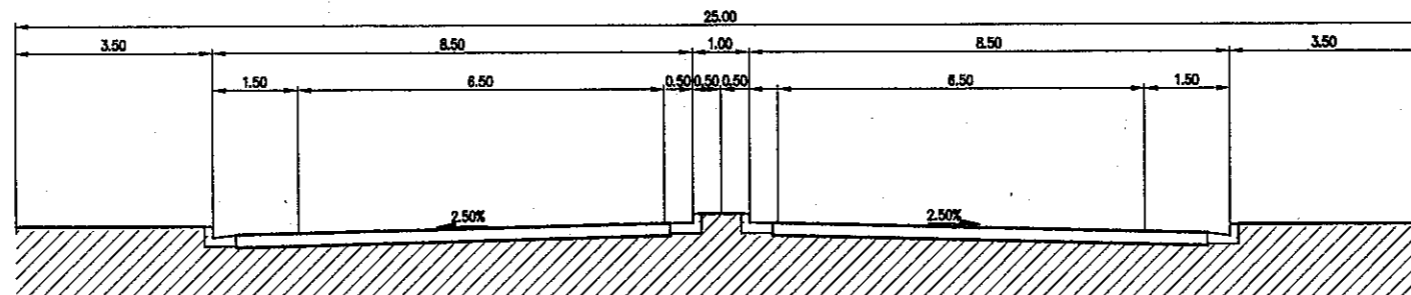
1A ORDINARY SECTION
SCALE: N T S

1 TYPICAL CROSS SECTION - RECLAIMED AREA
SCALE: SHOWN

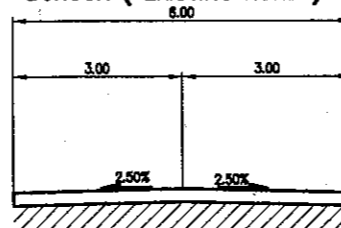
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| <p>ALMEC ALMEC Corporation</p> | <p> Pacific Consultants International</p> | <p> NATIONAL ECONOMIC AND DEVELOPMENT AUTHORITY Republic of the Philippines</p> | <p> JAPAN INTERNATIONAL COOPERATION AGENCY Japan</p> | <p>THE FEASIBILITY STUDY OF THE PROPOSED CAVITE BUSWAY SYSTEM</p> | <p>SHEET CONTENTS TYPICAL CROSS SECTION - RECLAIMED AREA (BUSWAY)</p> | <p>SCALE N T S</p> | <p>Drawing Number B-02</p> |
|---|--|--|---|--|---|------------------------|--------------------------------|

TYPICAL CROSS SECTIONS OF ALL CROSSING ROADS

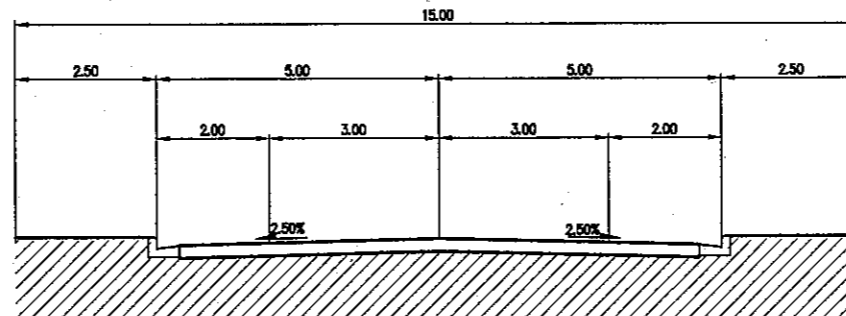
AGUINALDO HIGHWAY



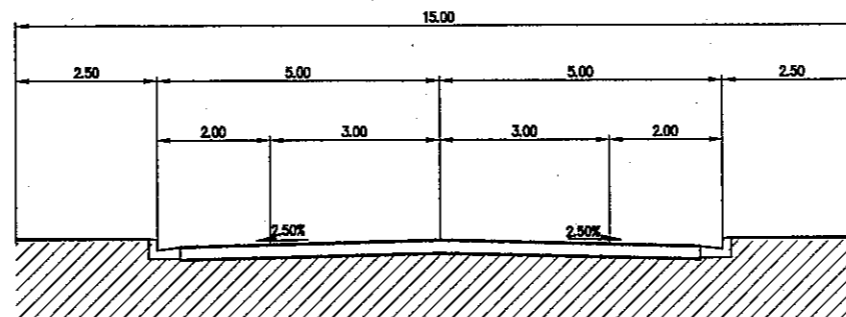
BUNUGA (EXISTING ROAD)



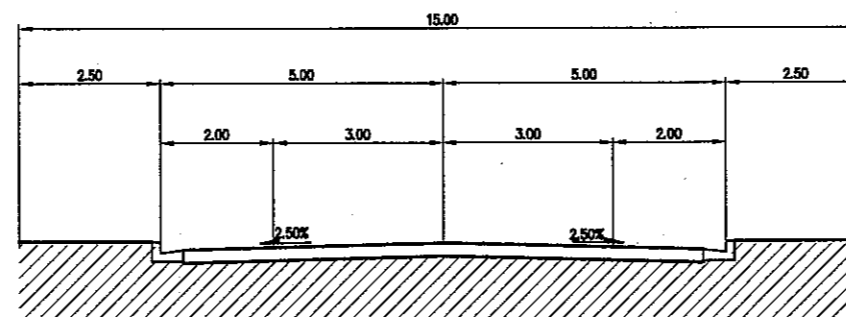
TIRONA HIGHWAY






NIOG ROAD A&B



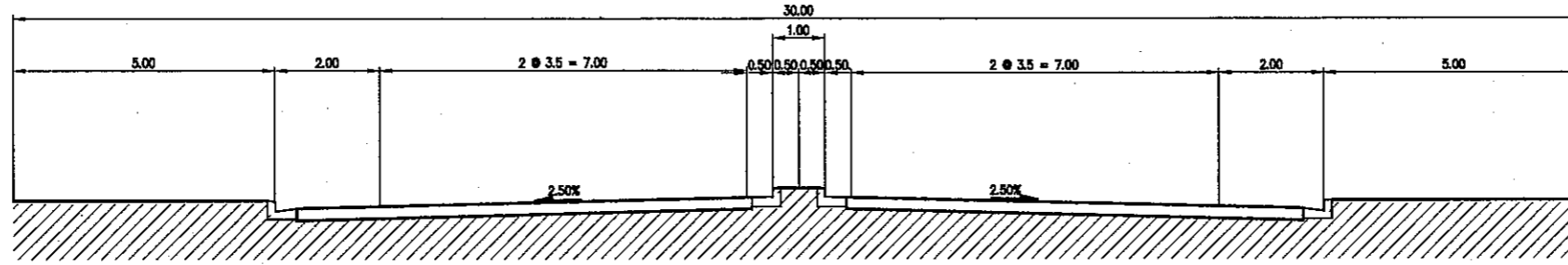
MAMBOG - BAYANAN ROAD



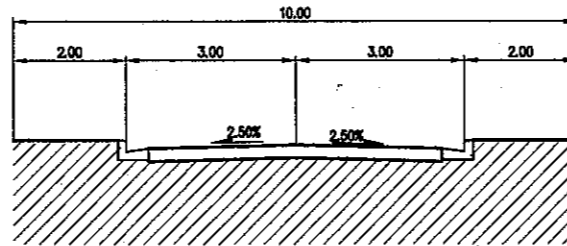
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|---|--|--|---|--|---|-------------------------------|---------------------------------------|
| <p>ALMEC ALMEC Corporation</p> | <p> Pacific Consultants International</p> | <p> NATIONAL ECONOMIC AND DEVELOPMENT AUTHORITY Republic of the Philippines</p> | <p> JAPAN INTERNATIONAL COOPERATION AGENCY Japan</p> | <p>THE FEASIBILITY STUDY OF THE PROPOSED CAVITE BUSWAY SYSTEM</p> | <p>SHEET CONTENTS TYPICAL CROSS SECTIONS OF ALL CROSSING ROADS</p> | <p>SCALE N T S</p> | <p>Drawing Number B-03</p> |
|---|--|--|---|--|---|-------------------------------|---------------------------------------|

TYPICAL CROSS SECTIONS OF ALL CROSSING ROADS

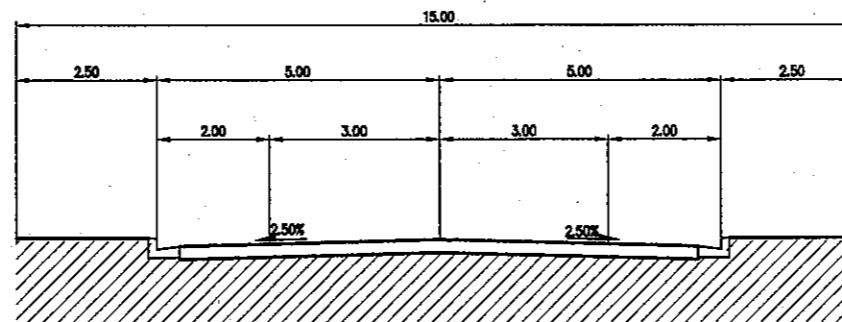
MOLINO BOULEVARD



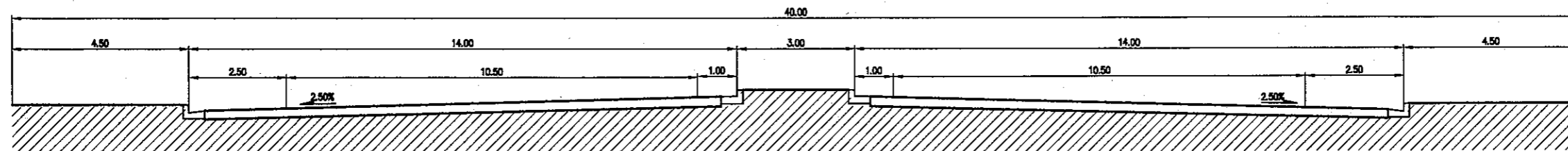
SUPER DIVISION



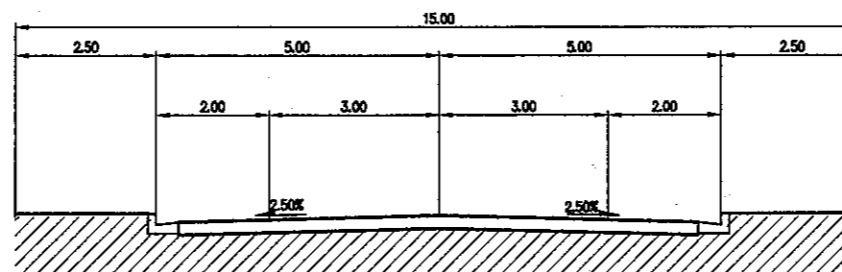
ANABU ROAD






ONE ASIA NORTH (EAST - WEST HIGHWAY) (A,E&F)



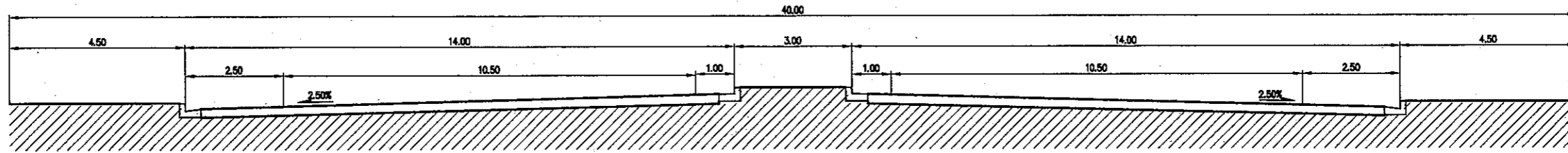
ONE ASIA SOUTH (B,C&D)



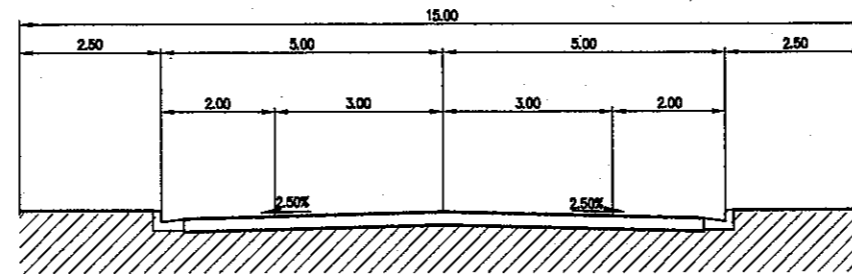
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| <p>ALMEC ALMEC Corporation</p> |  Pacific Consultants International |  NATIONAL ECONOMIC AND DEVELOPMENT AUTHORITY Republic of the Philippines |  JAPAN INTERNATIONAL COOPERATION AGENCY Japan | <p>THE FEASIBILITY STUDY OF THE PROPOSED CAVITE BUSWAY SYSTEM</p> | <p>SHEET CONTENTS</p> <p>TYPICAL CROSS SECTIONS OF ALL CROSSING ROADS</p> | <p>SCALE</p> <p>N T S</p> | <p>Drawing Number</p> <p>B-03A</p> |
|---|--|---|--|--|---|---------------------------|------------------------------------|

TYPICAL CROSS SECTIONS OF ALL CROSSING ROADS

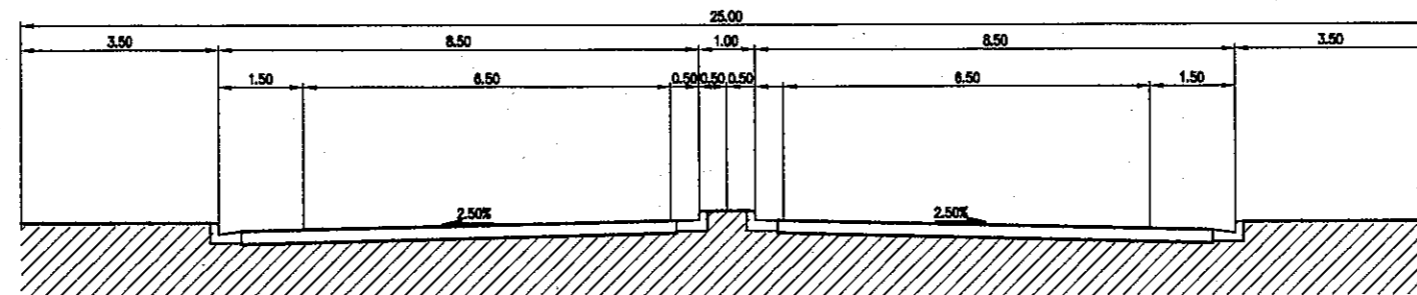
DAAN - HARI ROAD



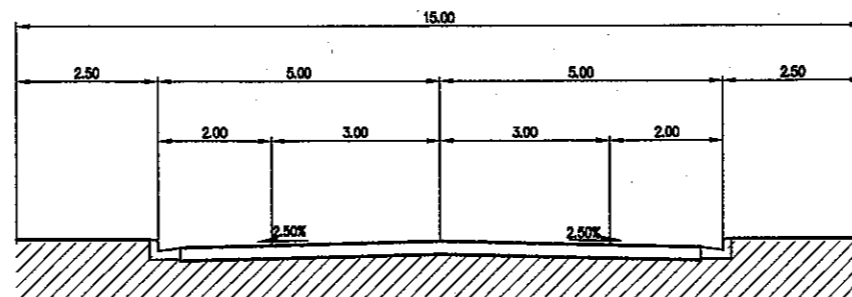
ORCHARD ROAD






SALAWAG - SANITRAN ROAD



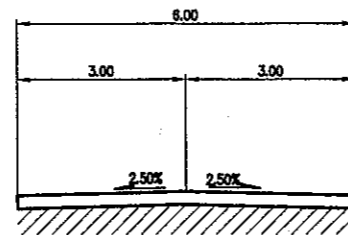
SALITRAN ROAD



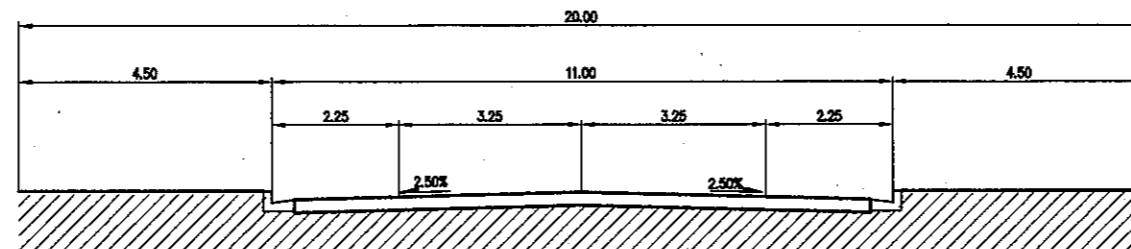
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| <p>ALMEC ALMEC Corporation</p> | <p> Pacific Consultants International</p> | <p> NATIONAL ECONOMIC AND DEVELOPMENT AUTHORITY Republic of the Philippines</p> | <p> JAPAN INTERNATIONAL COOPERATION AGENCY Japan</p> | <p>THE FEASIBILITY STUDY OF THE PROPOSED CAVITE BUSWAY SYSTEM</p> | <p>SHEET CONTENTS TYPICAL CROSS SECTIONS OF ALL CROSSING ROADS</p> | <p>SCALE N T S</p> | <p>Drawing Number B-03B</p> |
|---|--|--|---|--|---|-------------------------------|--|

TYPICAL CROSS SECTIONS OF ALL CROSSING ROADS

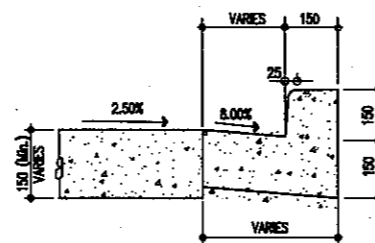
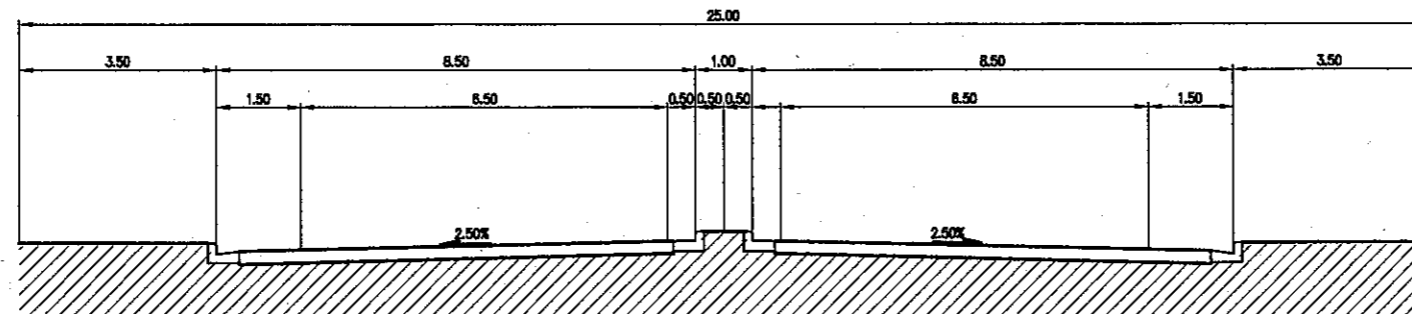
BUROL ROAD



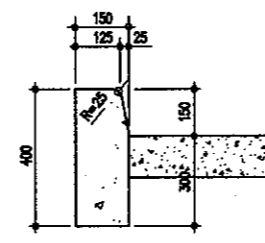
CONGRESSIONAL ROAD






AGUINALDO HIGHWAY (SOUTH)

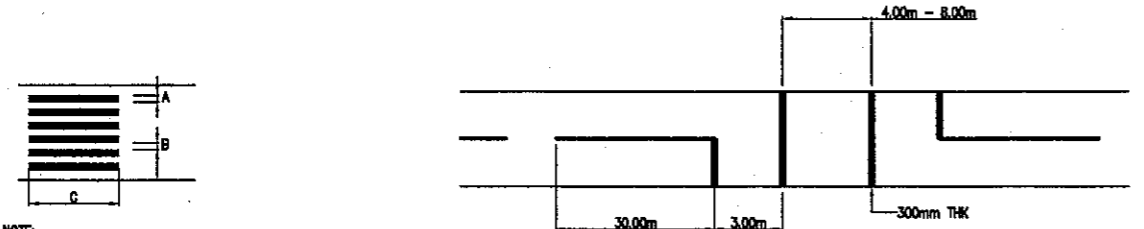


A CONC. CURB & GUTTER DETAIL
B-03A H T S



B CONC. CURB DETAIL
B-03A H T S

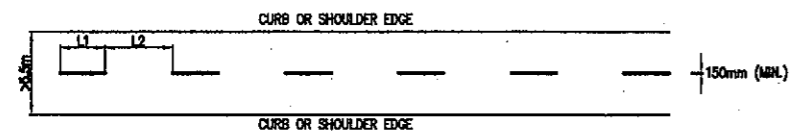
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|---|--|--|---|--|---|------------------------|---------------------------------|
| <p>ALMEC ALMEC Corporation</p> | <p> Pacific Consultants International</p> | <p> NATIONAL ECONOMIC AND DEVELOPMENT AUTHORITY Republic of the Philippines</p> | <p> JAPAN INTERNATIONAL COOPERATION AGENCY Japan</p> | <p>THE FEASIBILITY STUDY OF THE PROPOSED CAVITE BUSWAY SYSTEM</p> | <p>SHEET CONTENTS TYPICAL CROSS SECTIONS OF ALL CROSSING ROADS, CONCRETE CURB AND GUTTER & CONCRETE CURB DETAIL</p> | <p>SCALE N T S</p> | <p>Drawing Number B-03C</p> |
|---|--|--|---|--|---|------------------------|---------------------------------|



3A ZEBRA TYPE (NON-SIGNALIZED CROSSING)
B-04 N T S

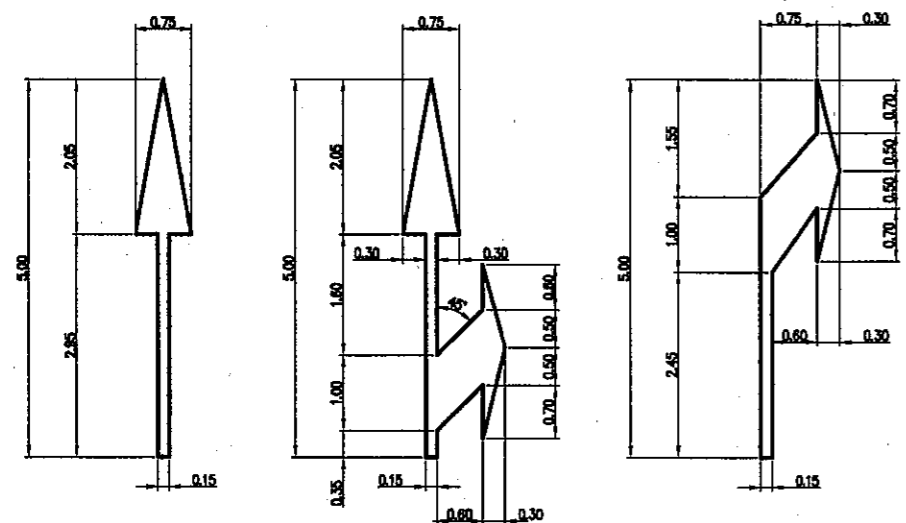
3B CROSSWALKS (SIGNALIZED PEDESTRIAN CROSSING)
B-04 N T S

3 PEDESTRIAN CROSSING MARKINGS
B-04 N T S



NOTE:
FOR 85% SPEED < 60 kph L1=3.0m L2=4.5m
FOR 85% SPEED > 60 kph L1=3.0m L2=8.0m
BARRIER LINES MAY BE USED AS CENTER LINES ONLY
WHEN PASSING IS WARRANTED

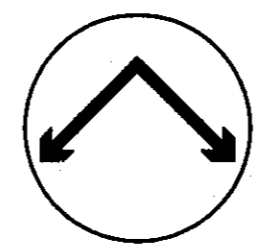
2 CENTER LINE AND EDGE LINE MARKING FOR A TYP. TWO-LANE ROAD
B-04 SCALE: 1:250



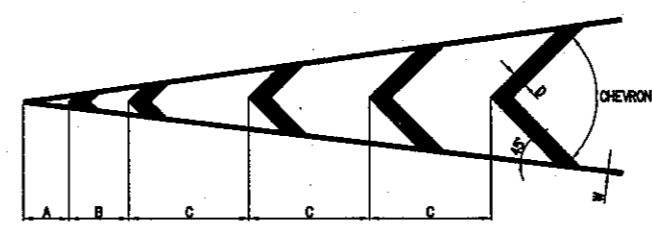
1. THROUGH ARROW 2. COMBINED ARROW 3. TURN ARROW

NOTE:
TO BE USED FOR ROADS WITH A
SPEED LIMIT OF 60kph OR LESS

1 STANDARD PAVEMENT ARROWS
B-04 SCALE: 1:50

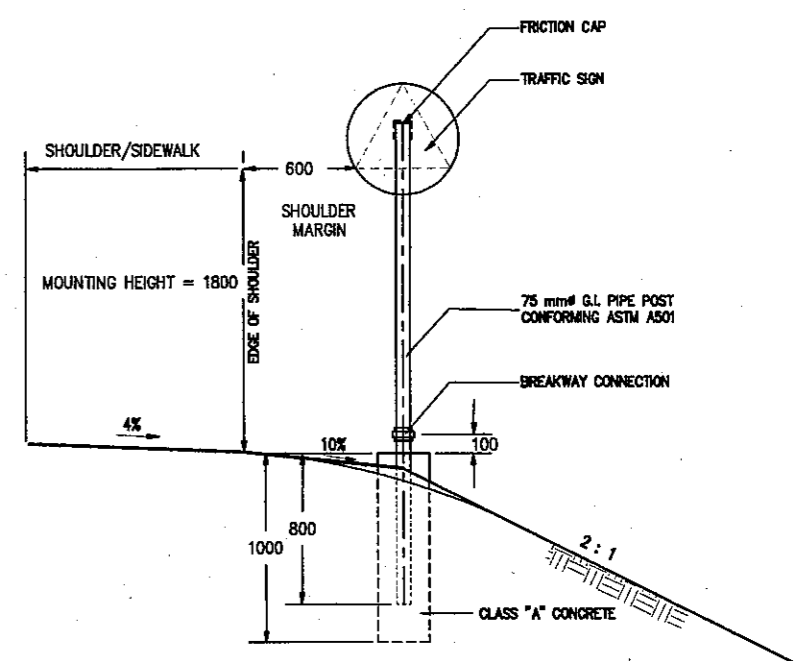


6 DIRECTIONAL SIGN
B-04 N T S

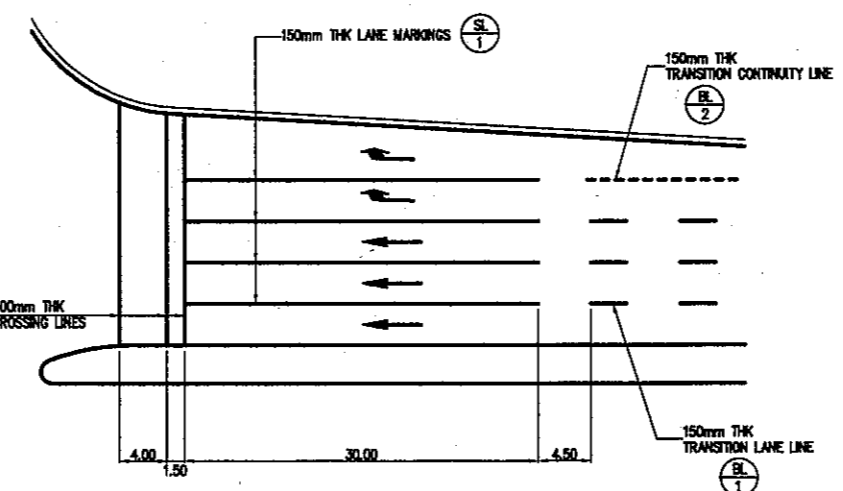


NOTE:
FOR SPEED OF 60kph OR LESS USE:
W = 100mm
D = 500mm
A = 1.5m
B = 2.0m
C = 4.0m

5 APPROACH MARKING TO TRAFFIC ISLAND
B-04 N T S



7 MOUNTING FOR WARNING AND REGULATORY SIGNS
B-04



4 DETAIL - TYPICAL LINE MARKING
B-04 N T S

GENERAL NOTES:

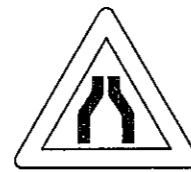
1. ALL SIGNS SHALL BE PLACED ON THE RIGHT HAND SIDE OF THE TRAVELWAY, EXCEPT AS OTHERWISE INDICATED ON PLAN. SIGNS SHALL FACE THE DIRECTION OF TRAFFIC FLOW AND SHALL BE SUCH IN A MANNER THAT NO OTHER OBJECT SHALL OBSTRUCT THE VIEW OR LINE OF SIGHT OF THE MOTORIST.
2. THE PROPER LOCATION OF SIGN SHALL BE SUCH, AS NOT TO OBSTRUCT THE DRIVEWAYS OF ADJUTING PROPERTIES.
3. UNLESS OTHERWISE SPECIFIED ON THE PLANS, ALL TRAFFIC SIGNS AND PAVEMENT MARKINGS SHALL CONFORM WITH THE REQUIREMENTS OF THE PHILIPPINE ROAD SIGNS AND PAVEMENT MARKINGS MANUALS OF DPWH SERIES OF 1981 AND 1977.
4. TRAFFIC SIGNS, SYMBOLS AND MESSAGES ARE SUBJECT TO CHANGE TO SUIT LOCAL NEEDS AND ACTUAL SITE CONDITIONS, THIS SHALL BE AS DIRECTED BY THE ENGINEER.
5. THE DIMENSIONS AND COLORS OF ADVANCE DIRECTION AND DIRECTION SIGNS SHALL BE ADAPTED TO THE PHILIPPINE STANDARD.

| | | | | | | | |
|----------------------------|--|---|--|--|---|-------------------|------------------------|
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|----------------------------|--|---|--|--|---|-------------------|------------------------|

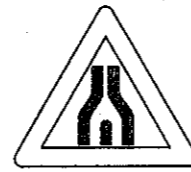
A. WARNING SIGNS :



1. MERGING ROAD

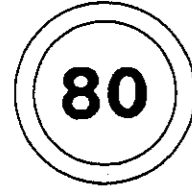


2. ROAD NARROWS

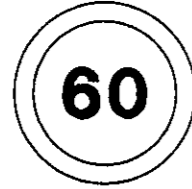


3. END DIVIDED ROAD

B. REGULATORY SIGNS :



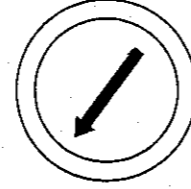
1. SPEED LIMIT 80kph



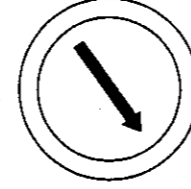
2. SPEED LIMIT 60kph



3. SPEED LIMIT 40kph



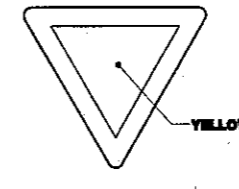
4. PASS THIS SIDE



5. PASS THIS SIDE



6. PASS EITHER SIDE



7. YIELD SIGN



8. STOP AT INTERSECTION

| PAVEMENT MARKINGS | | | |
|--------------------------------------|-------|-----------------------|--------|
| SYMBOLS | WIDTH | SPACING SEGMENT / GAP | COLOR |
| | 150 | 3000/9000 | WHITE |
| | 100 | 1000/3000 | WHITE |
| | 150 | SOLID LINE | YELLOW |
| | 150 | SOLID LINE | WHITE |
| REFLECTIVE PAINT IS INDICATED WITH R | | | e.g. |

C. ADVANCED DIRECTION SIGNS :



AD-1



AD-2



AD-3

NOTES :

WARNING SIGNS :

EACH SIDE OF THE EQUILATERAL TRIANGLE SHALL BE 900mm. THE SYMBOL SHALL BE BLACK ON WHITE BACKGROUND & RED BORDER (80mm WIDE).

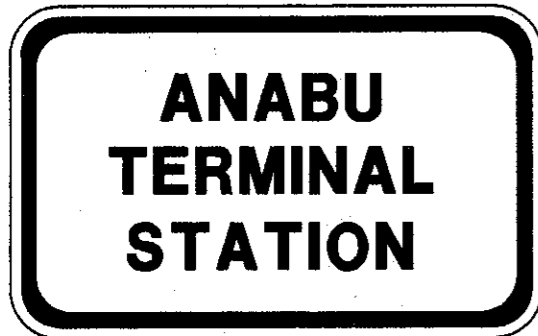
REGULATORY SIGNS :

THE PERIMETER SHALL BE 600mm. EXCEPT THE NO ENTRY & SPEED LIMIT SIGNS WHICH SHALL BE 900mm. THE SYMBOLS & INSCRIPTIONS IF ANY, SHALL BE BLACK ON WHITE BACKGROUND WITH RED BORDER (80mm WIDE).

FOR NOS. 26 & 29 THE DIAMETER SHALL BE 900mm. SYMBOL SHALL BE WHITE ON BLUE BACKGROUND WITH BORDER.

THE WORD "STOP" SHALL BE WHITE ON RED BACKGROUND WITH WHITE BORDER.

TRAFFIC SIGNS AND PAVEMENT MARKINGS SHOULD CONFORM WITH THE REQUIREMENTS BASED ON THE MANUAL PUBLISHED BY MANUAL TRAFFIC ENGINEERING AND MANAGEMENT, DPWH SERIES 1977 & 1981 RESPECTIVELY.



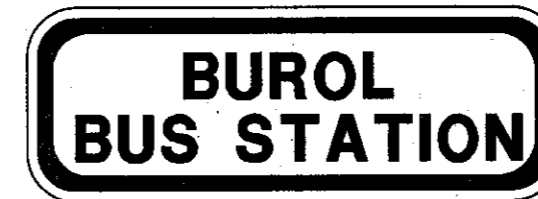
AD-4



AD-5



AD-6



AD-7



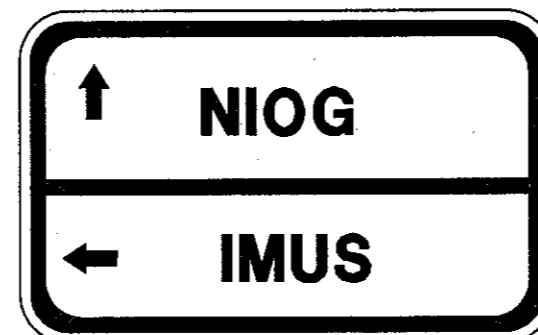
AD-8



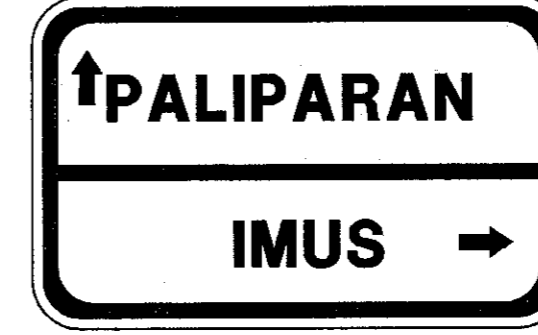
AD-9



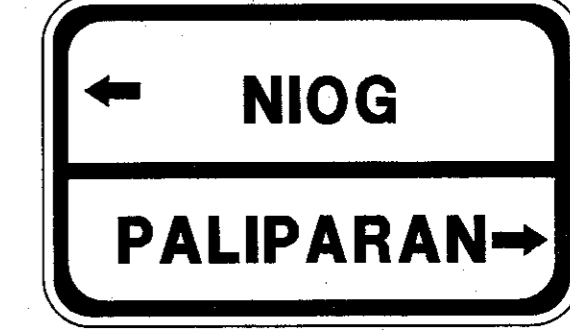
AD-10



AD-11



AD-12



AD-13

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Republic of the Philippines



JAPAN INTERNATIONAL
COOPERATION AGENCY
Japan

THE FEASIBILITY STUDY OF
THE PROPOSED CAVITE
BUSWAY SYSTEM

ROAD SIGNS AND PAVEMENT MARKINGS

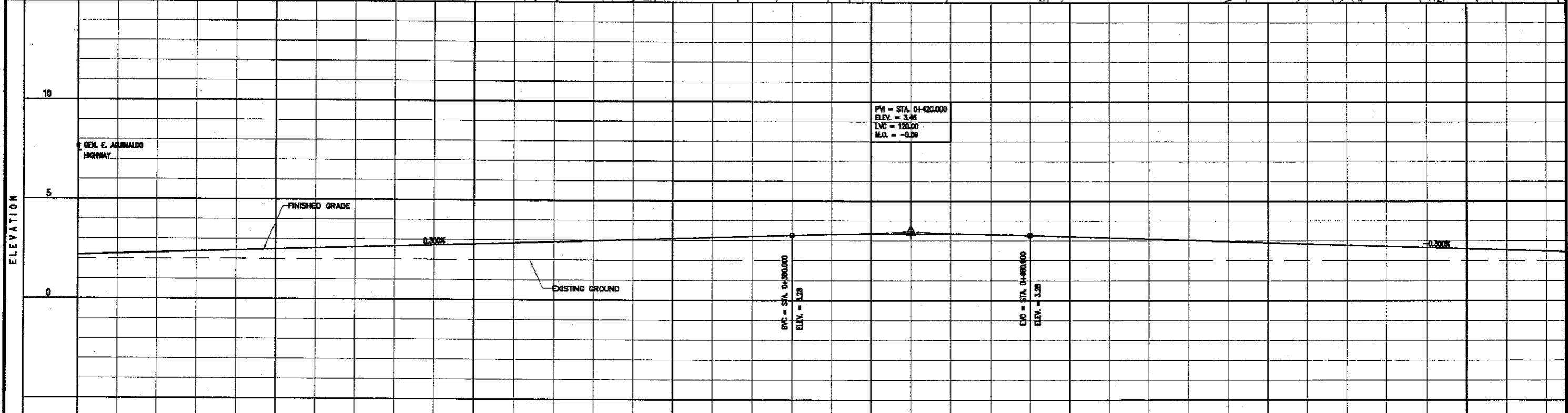
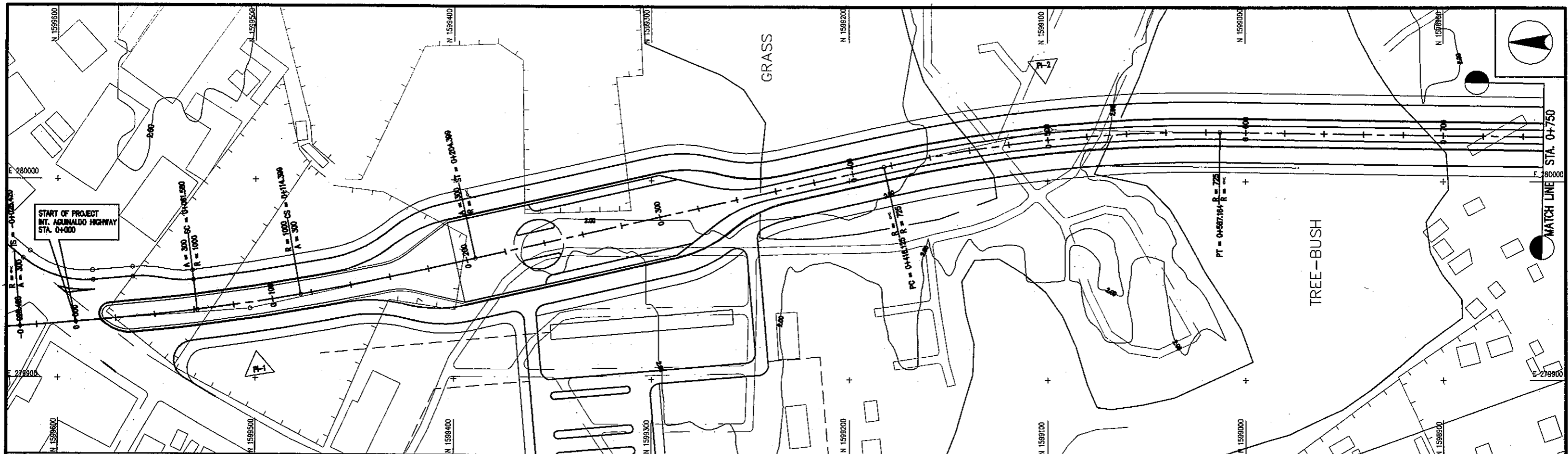
SCALE

AS SHOWN

Drawing Number

B-05

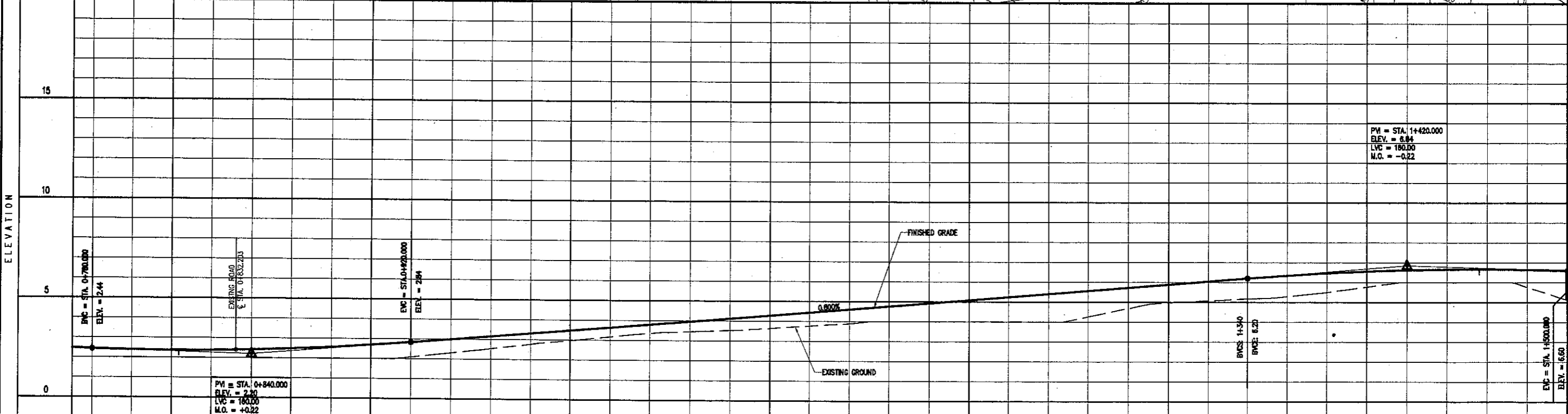
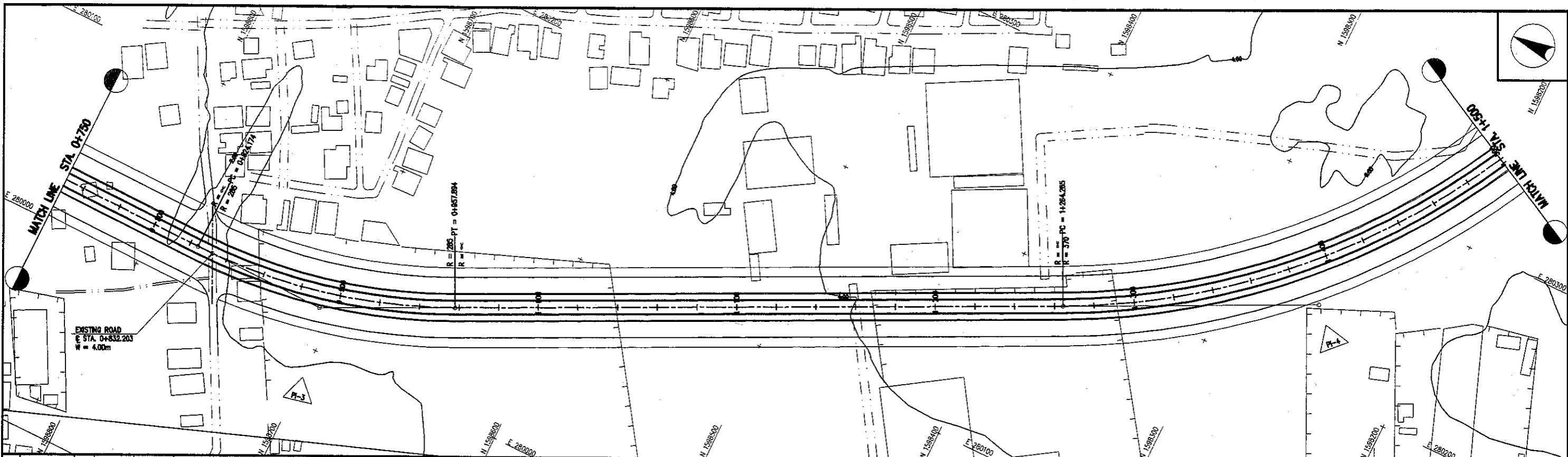
C. PLAN AND PROFILE



| STATION | 0+000 | 0+100 | 0+200 | 0+300 | 0+400 | 0+500 | 0+600 | 0+700 |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|
| FINISHED GRADE | 2.20 | 2.28 | 2.32 | 2.38 | 2.44 | 2.50 | 2.56 | 2.62 |
| EXISTING GROUND | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 |

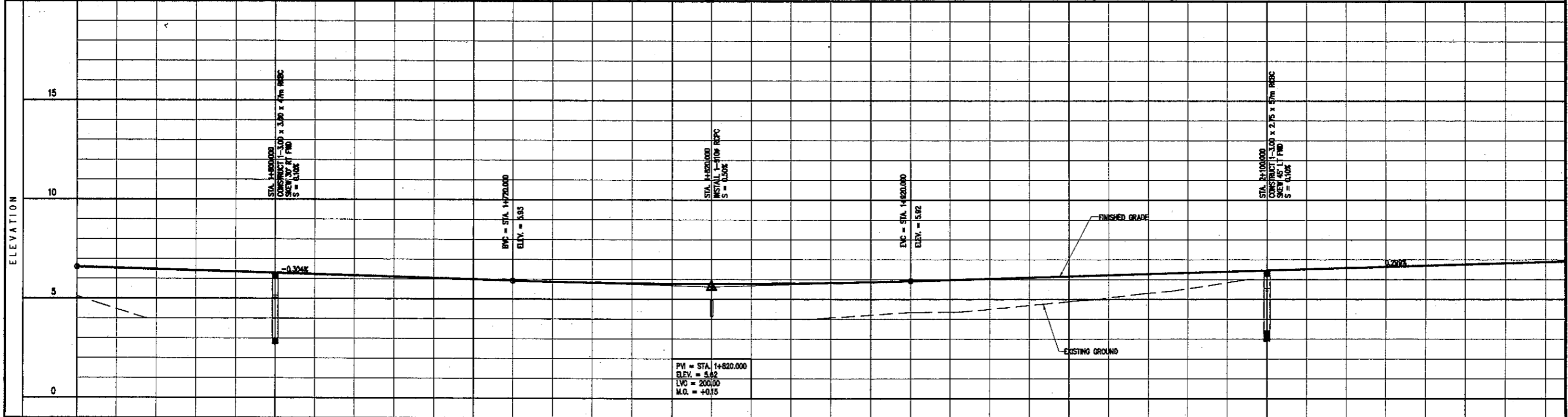
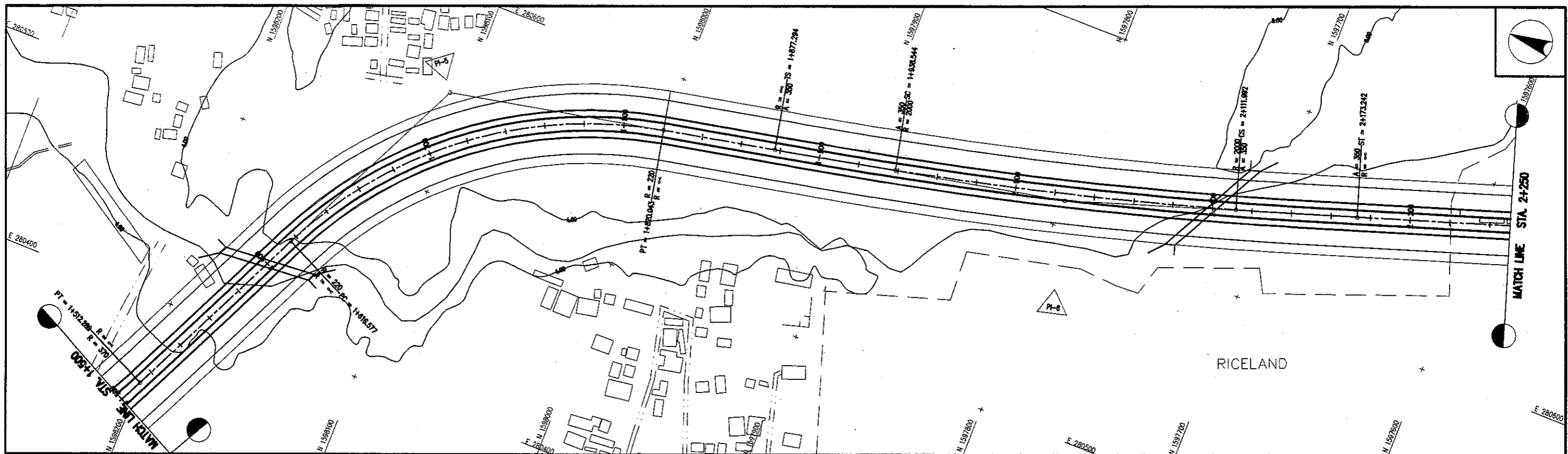
| STATION | 0+000 | 0+100 | 0+200 | 0+300 | 0+400 | 0+500 | 0+600 | 0+700 |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|
| FINISHED GRADE | 2.20 | 2.28 | 2.32 | 2.38 | 2.44 | 2.50 | 2.56 | 2.62 |
| EXISTING GROUND | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 |

| | | | | | | | |
|---|---|---|---|--|--|------------------------------------|------------------------------|
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| | | | | | <p>PLAN AND PROFILE STA. 0+000 TO STA. 0+750</p> | <p>1:2000 HOR. 1:200 VERT.</p> | <p>C-01</p> |



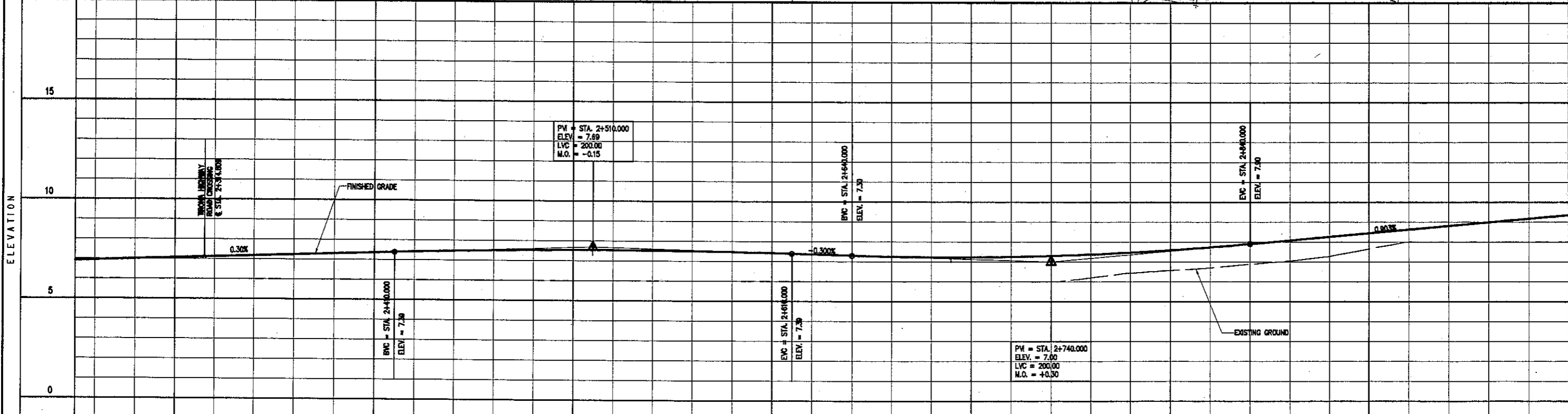
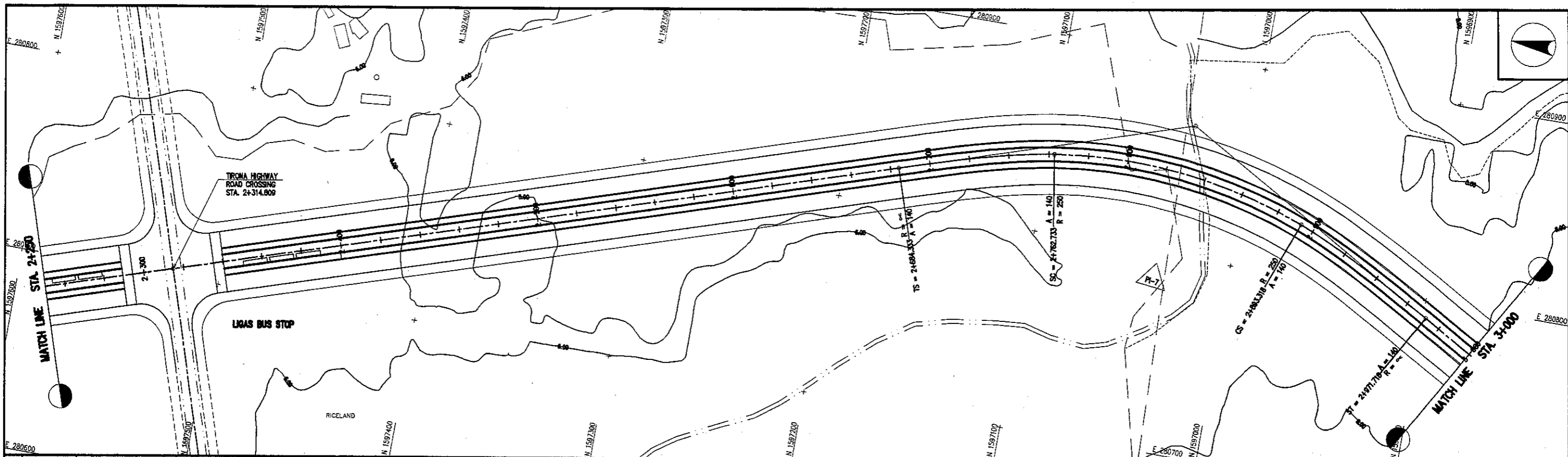
| STATION | 0+800 | 0+900 | 1+000 | 1+100 | 1+200 | 1+300 | 1+400 | 1+500 |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|
| FINISHED GRADE | 2.44 | 2.36 | 2.27 | 2.38 | 2.42 | 2.48 | 2.58 | 2.69 |
| EXISTING GROUND | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 |
| EAST SERVICE RD | (S1) | (S1) | (S1) | (S1) | (S1) | (S1) | (S1) | (S1) |
| BUSWAY | (B1) | (B1) | (B1) | (B1) | (B1) | (B1) | (B1) | (B1) |
| WEST SERVICE RD | (S1) | (S1) | (S1) | (S1) | (S1) | (S1) | (S1) | (S1) |

| | | | | | | | |
|---|---|---|---|--|--|---|---------------------------------------|
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|---|---|---|---|--|--|---|---------------------------------------|



| STATION | 1+500 | 1+600 | 1+700 | 1+800 | 1+900 | 2+000 | 2+100 | 2+200 |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|
| FINISHED GRADE | 6.60 | 6.54 | 6.48 | 6.41 | 6.35 | 6.29 | 6.23 | 6.17 |
| EXISTING GROUND | 5.12 | 4.47 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 |
| EAST SERVICE RD | (S) | (S) | (S) | (S) | (S) | (S) | (S) | (S) |
| BUSWAY | (S) | (S) | (S) | (S) | (S) | (S) | (S) | (S) |
| WEST SERVICE RD | (S) | (S) | (S) | (S) | (S) | (S) | (S) | (S) |

| | | | | | | | |
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|---|---|---|---|--|--|---|---------------------------------------|



| STATION | 2+300 | 2+400 | 2+500 | 2+600 | 2+700 | 2+800 | 2+900 | 3+000 |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|
| FINISHED GRADE | 6.94 | 7.00 | 7.06 | 7.12 | 7.18 | 7.24 | 7.30 | 7.36 |
| EXISTING GROUND | 5.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 |

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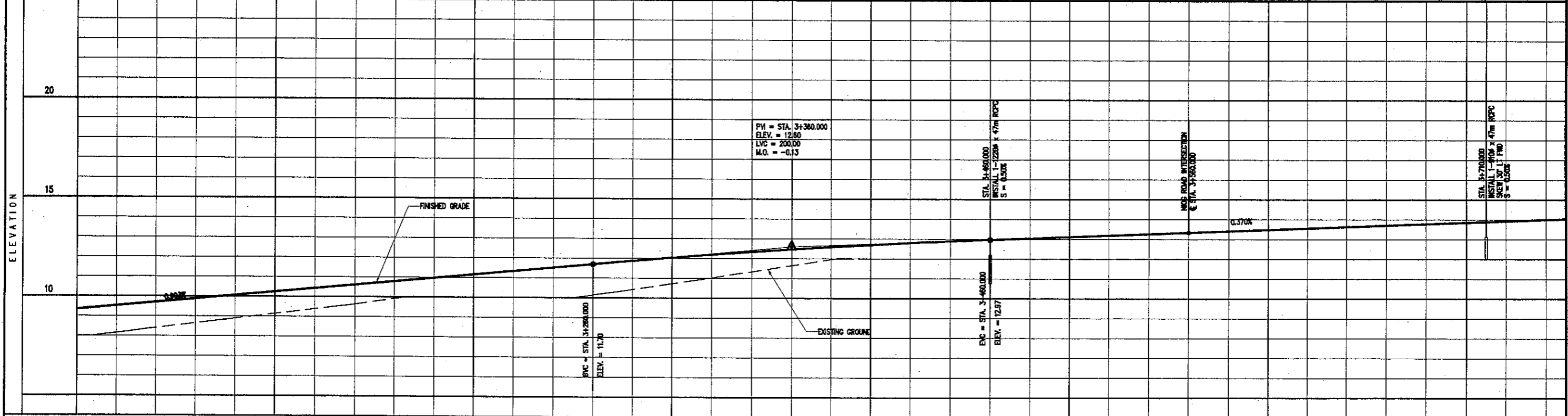
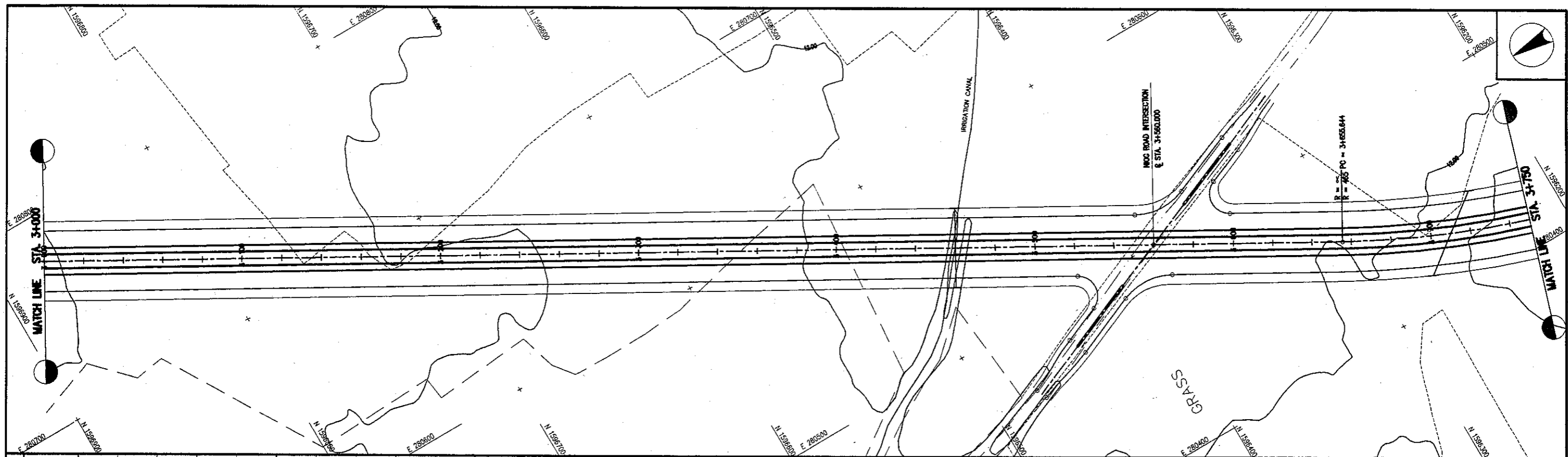
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Japan

**THE FEASIBILITY STUDY OF
THE PROPOSED CAVITE
BUSWAY SYSTEM**

SHEET CONTENTS
PLAN AND PROFILE
STA. 2+250 TO STA. 3+000

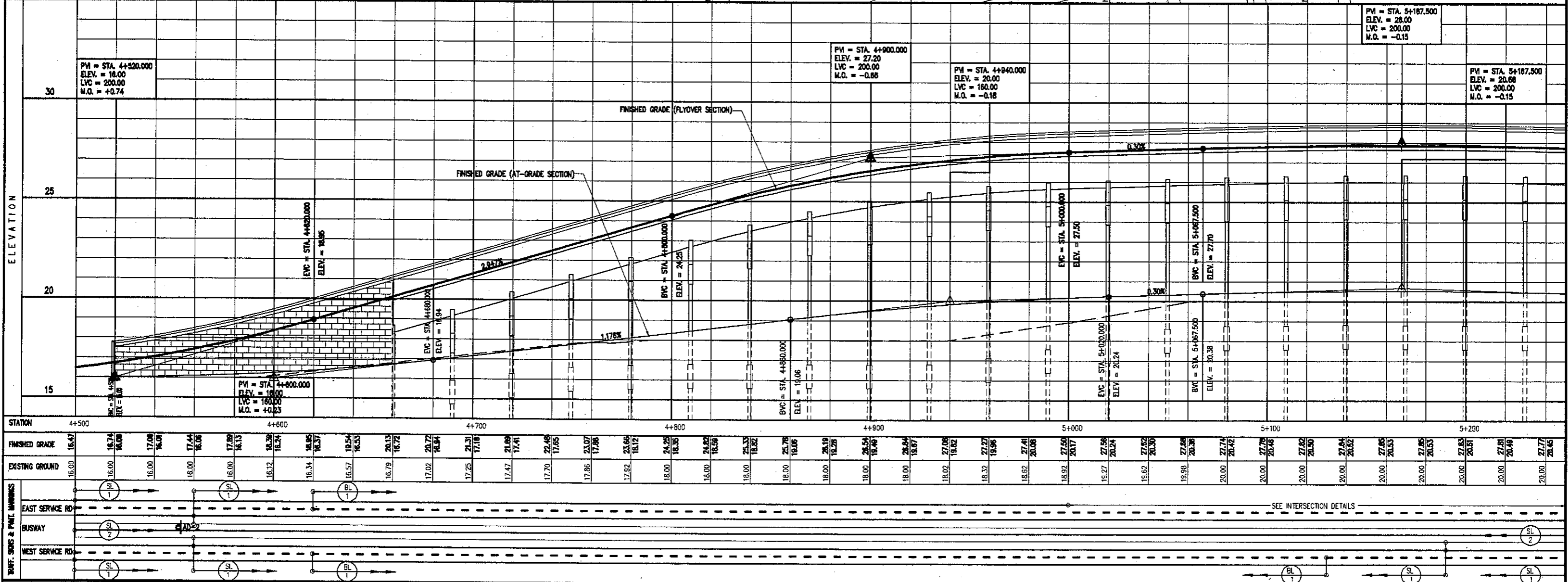
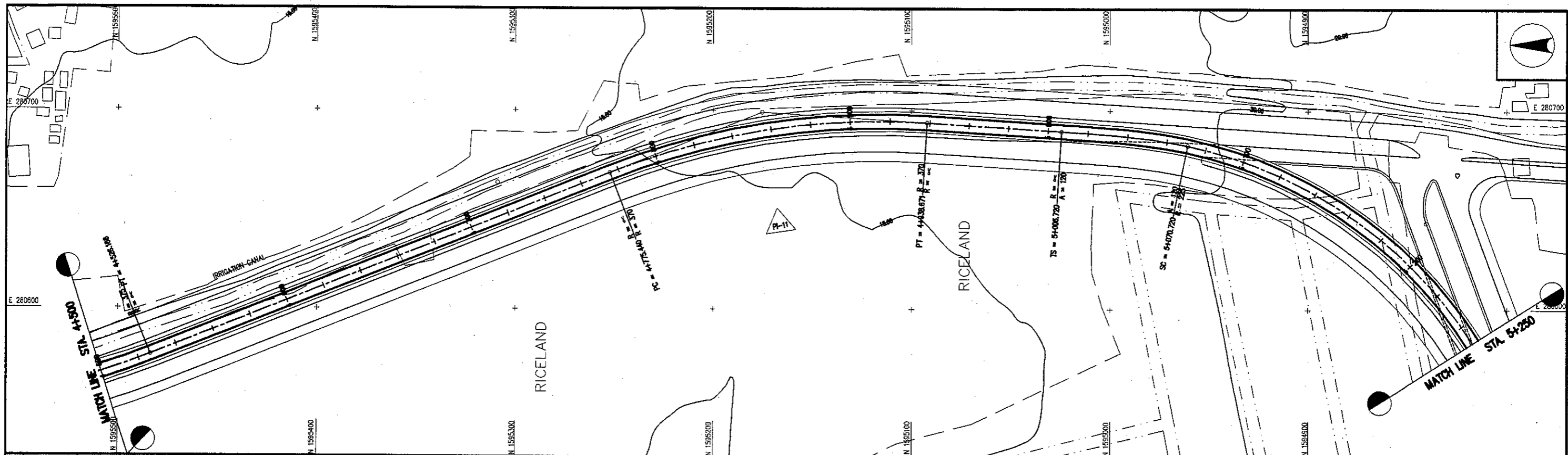
SCALE
1:2000 HOR.
1:200 VERT.

Drawing Number
C-04




| STATION | 3+000 | 3+100 | 3+200 | 3+300 | 3+400 | 3+500 | 3+600 | 3+700 |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|
| FINISHED GRADE | 9.35 | 9.53 | 9.71 | 9.89 | 10.07 | 10.25 | 10.43 | 10.61 |
| EXISTING GROUND | 8.00 | 8.16 | 8.41 | 8.65 | 8.90 | 9.14 | 9.39 | 9.64 |

| | | | | | | | |
|---|---|---|--|--|---|--|--------------------------------|
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|---|---|---|--|--|---|--|--------------------------------|



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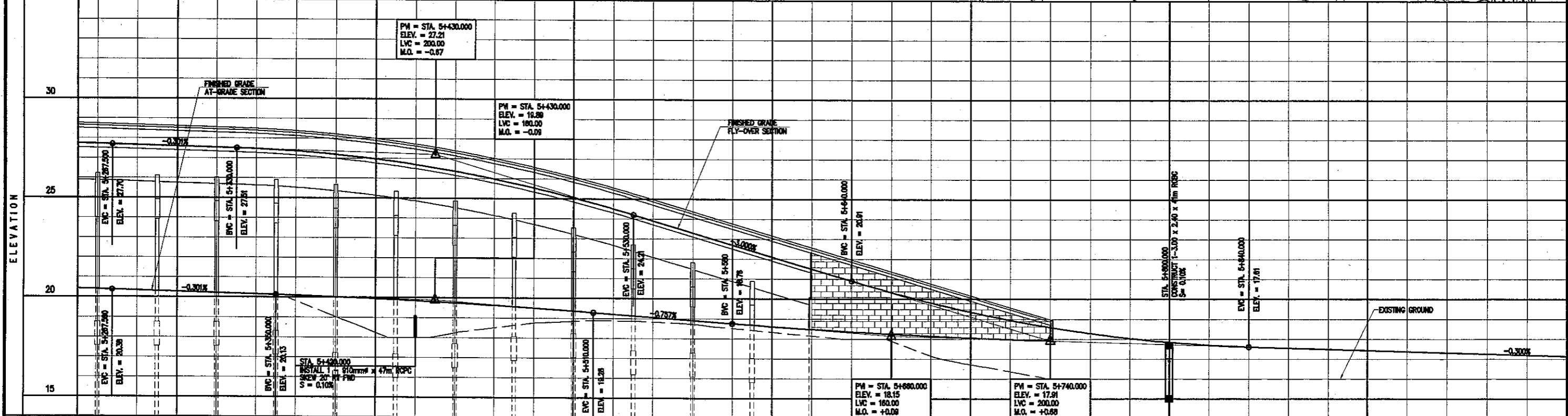
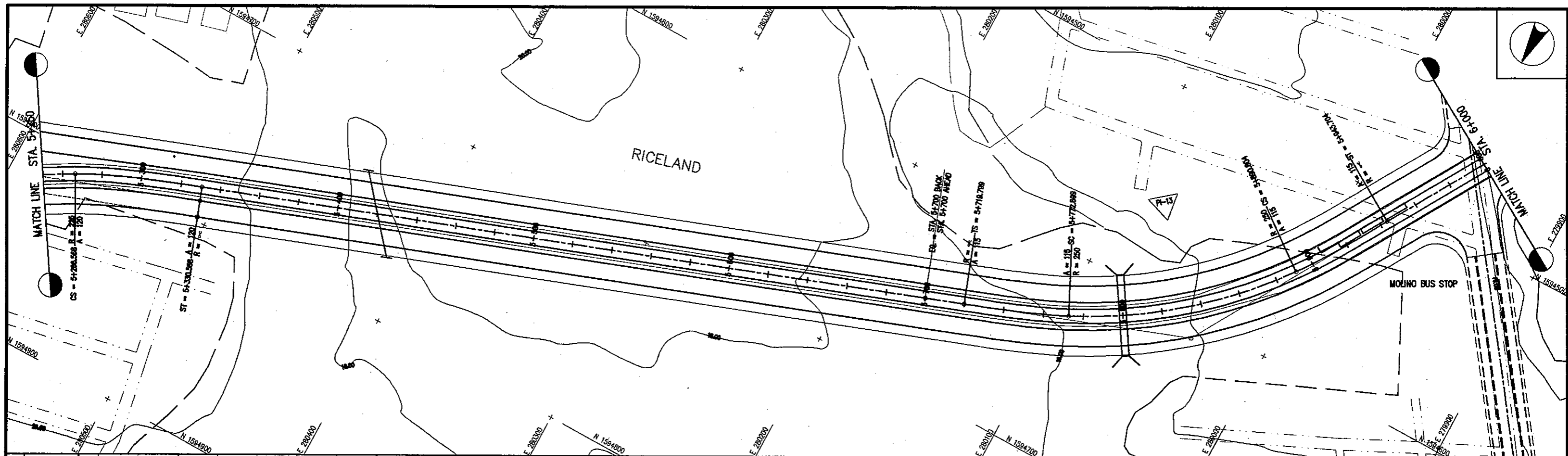

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Japan

**THE FEASIBILITY STUDY OF
THE PROPOSED CAVITE
BUSWAY SYSTEM**

SHEET CONTENTS
PLAN AND PROFILE
STA. 4+500 TO STA. 5+250

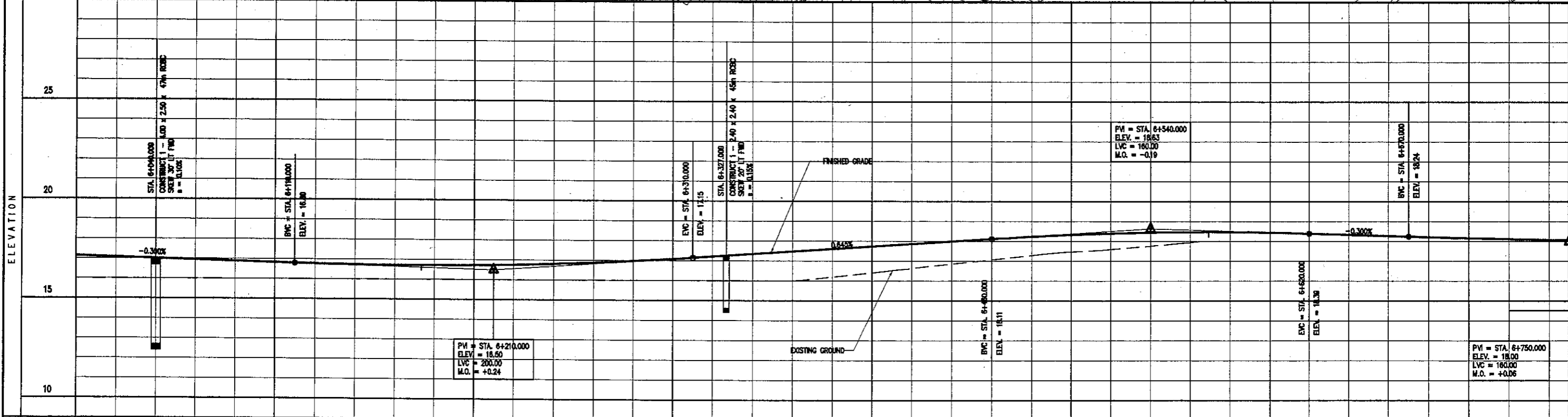
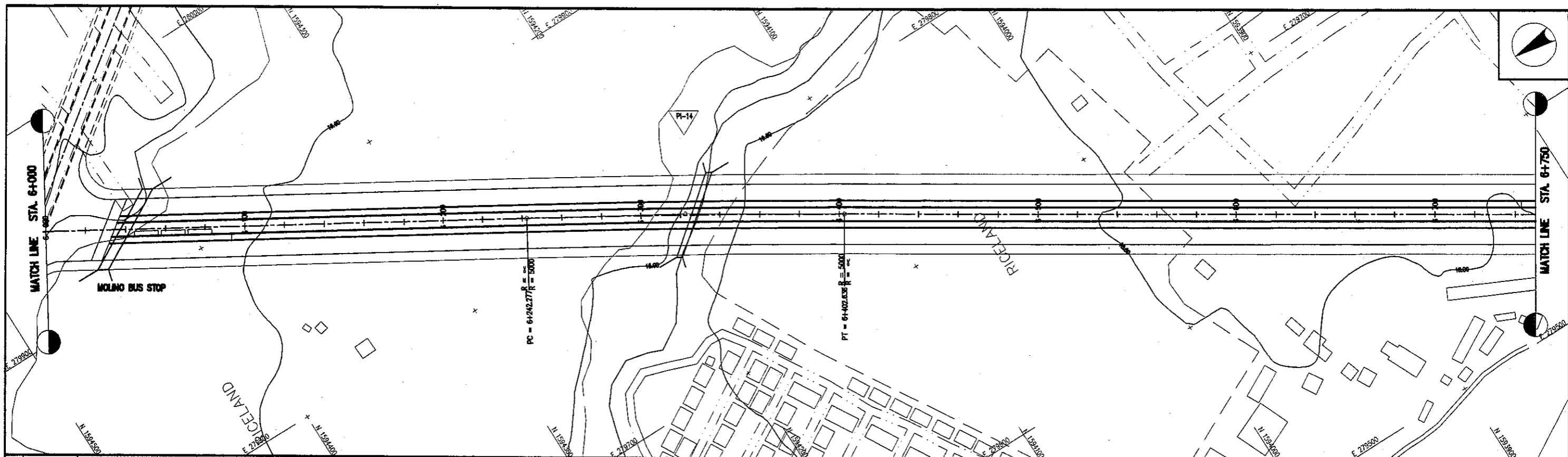
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1:200 VERT.

Drawing Number
C-07



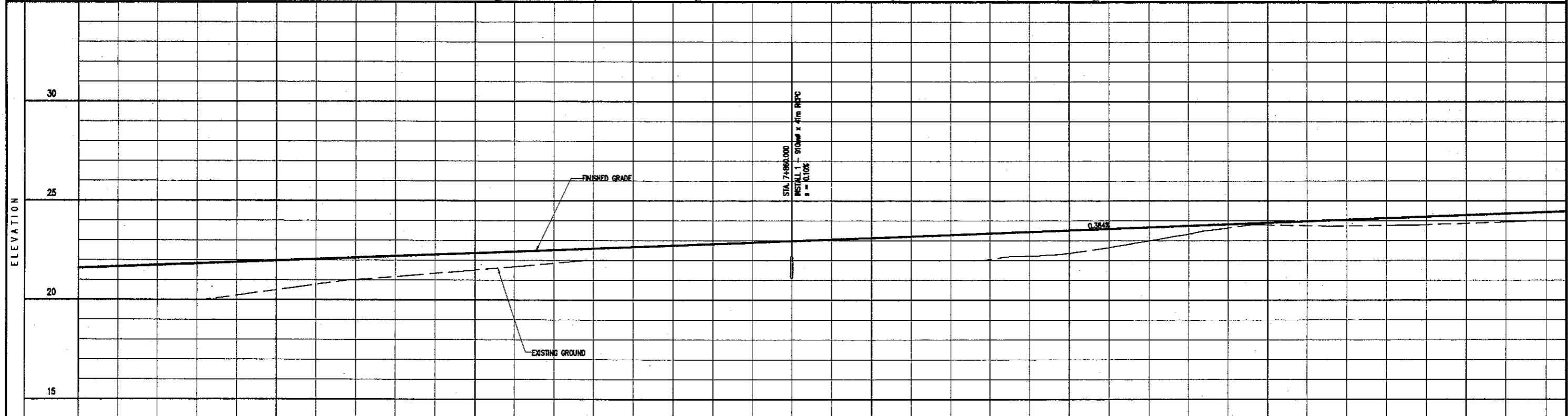
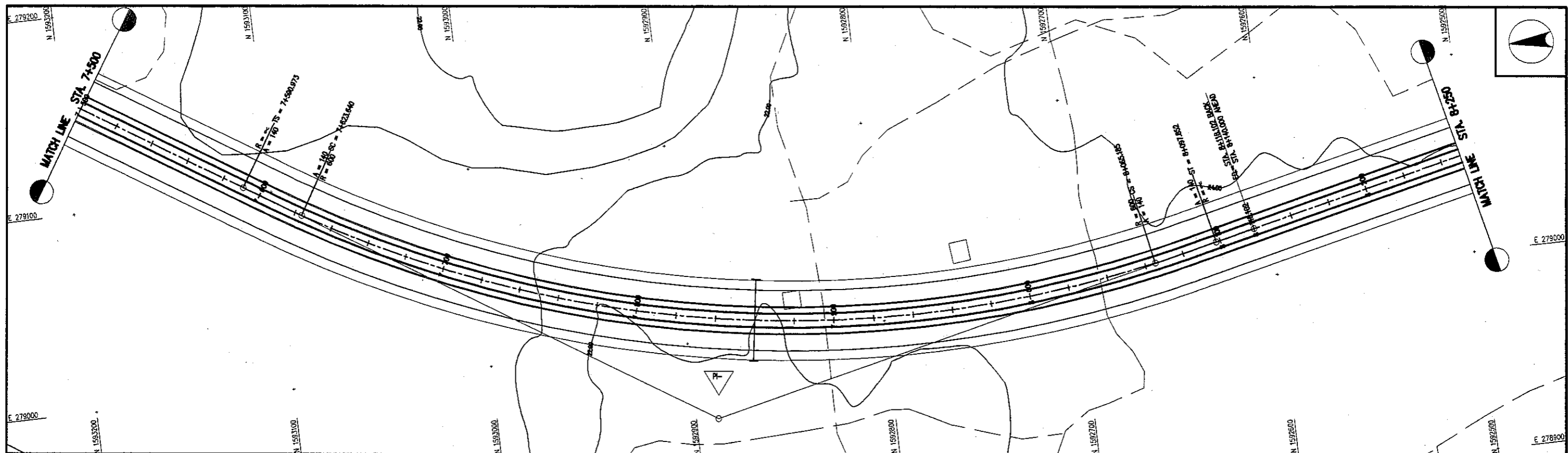
| STATION | 5+300 | 5+400 | 5+500 | 5+600 | 5+700 | 5+800 | 5+900 | 6+000 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-------|
| FINISHED GRADE | 27.72 20.10 | 27.05 20.14 | 27.82 20.26 | 27.54 20.22 | 27.47 20.16 | 27.28 20.10 | 27.10 20.05 | 26.87 19.84 | 26.69 19.85 | 26.36 19.74 | 26.24 19.63 | 26.54 19.50 | 26.05 19.36 | 25.87 19.21 | 25.71 19.08 | 25.51 18.91 | 25.33 18.81 | 25.14 18.68 | 25.01 18.53 | 24.84 18.34 | 24.69 18.24 | 24.52 18.14 | 24.35 18.05 | 24.18 17.96 | 24.00 17.81 | 23.85 17.65 | 23.70 17.55 | 23.55 17.49 | 23.40 17.43 | 23.25 17.37 | 23.10 17.31 | 22.95 17.25 | 22.80 17.19 | 22.65 17.13 | |
| EXISTING GROUND | 20.00 | 20.00 | 20.00 | 20.00 | 20.00 | 19.82 | 19.03 | 18.24 | 18.00 | 18.24 | 18.50 | 18.75 | 18.85 | 18.88 | 18.82 | 18.72 | 18.51 | 18.33 | 18.14 | 18.00 | 17.89 | 17.74 | 17.58 | 17.40 | 17.25 | 17.10 | 17.00 | 16.85 | 16.70 | 16.55 | 16.40 | 16.25 | 16.10 | 16.00 | 15.85 |
| THRT. STR. & PAVT. MARKINGS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | |
|---|---|---|--|--|---|--|---|
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|---|---|---|--|--|---|--|---|



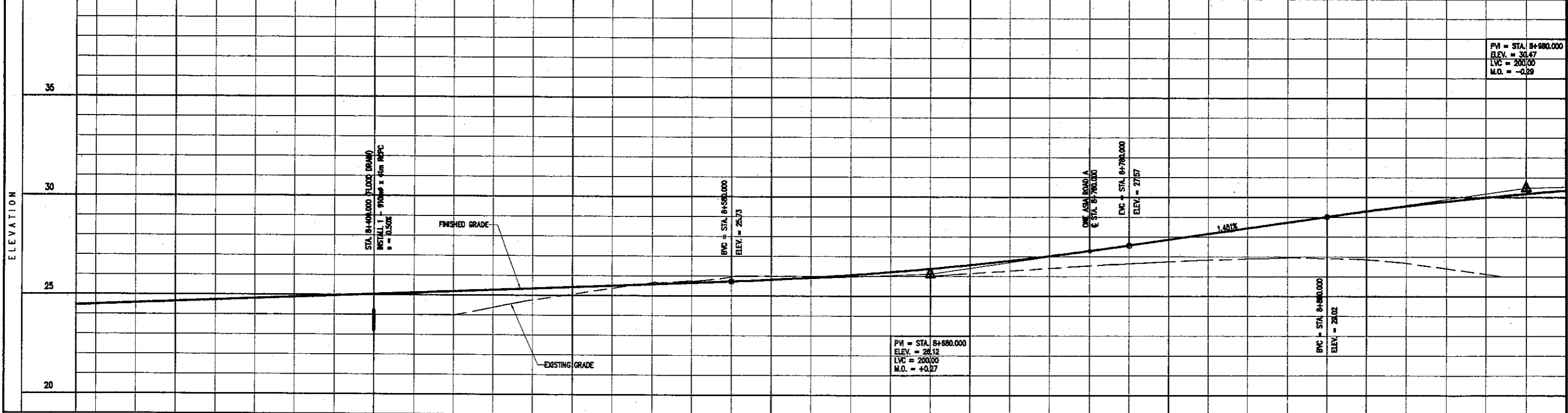
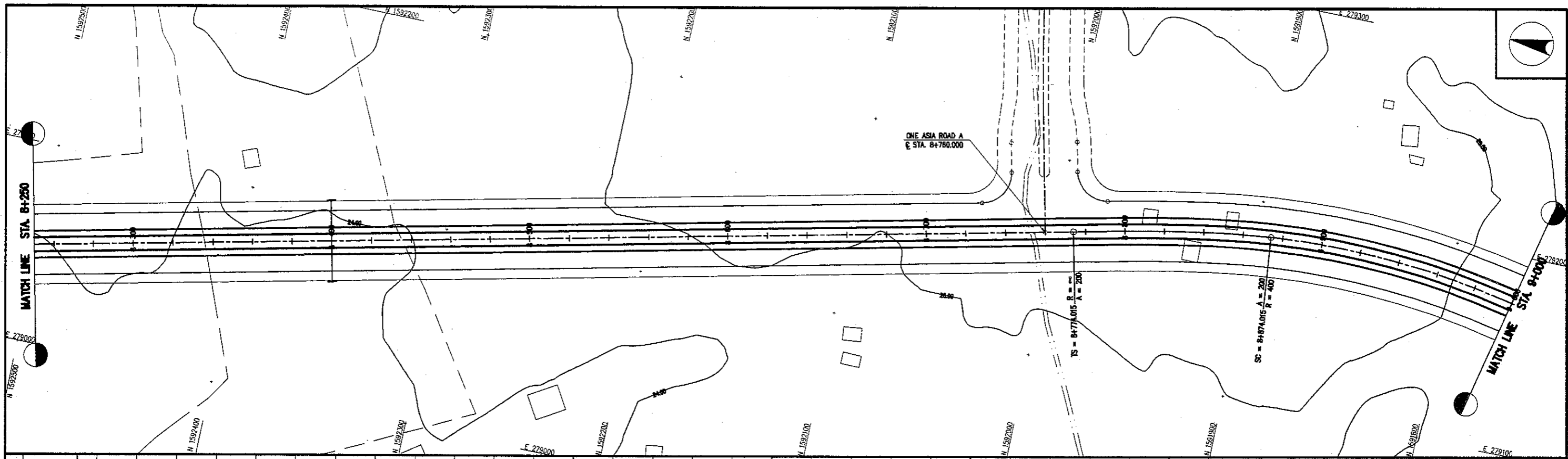
| STATION | 6+000 | 6+100 | 6+200 | 6+300 | 6+400 | 6+500 | 6+600 | 6+700 |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|
| FINISHED GRADE | 17.13 | 17.07 | 17.01 | 16.95 | 16.89 | 16.83 | 16.77 | 16.71 |
| EXISTING GROUND | 16.00 | 16.00 | 16.00 | 16.00 | 16.00 | 16.00 | 16.00 | 16.00 |

| | | | | | | | |
|---|---|---|---|--|--|---|---------------------------------------|
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|---|---|---|---|--|--|---|---------------------------------------|



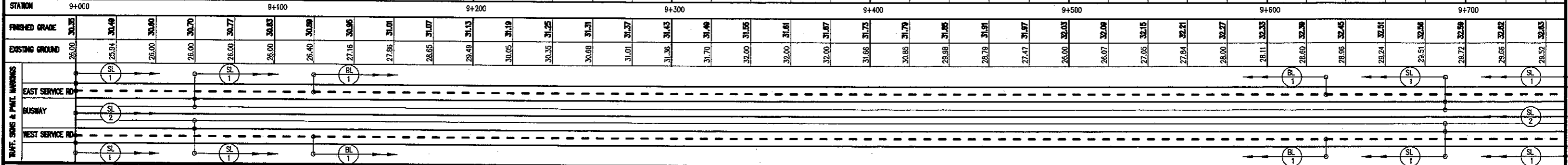
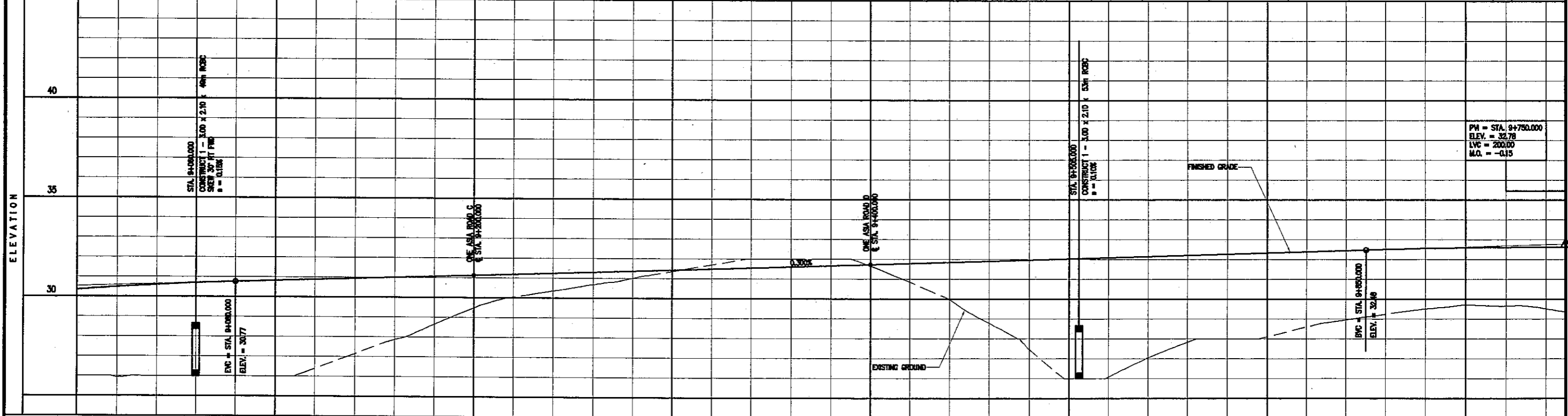
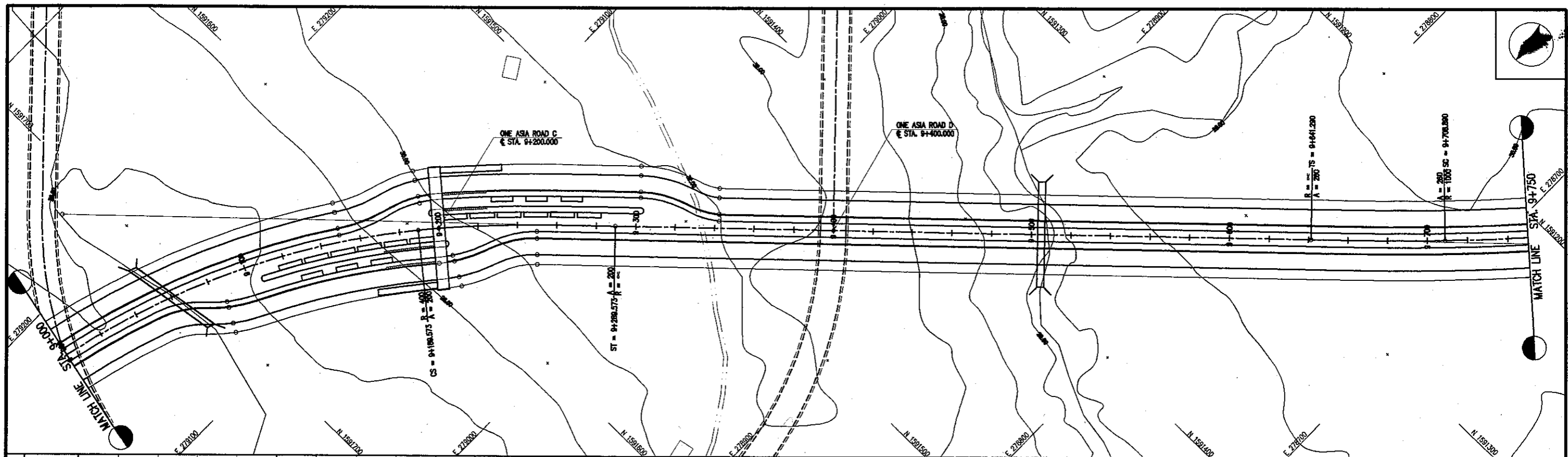
| STATION | 7+500 | 7+600 | 7+700 | 7+800 | 7+900 | 8+000 | 8+100 | 8+200 |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|
| FINISHED GRADE | 21.59 | 21.67 | 21.74 | 21.82 | 21.90 | 21.97 | 22.05 | 22.13 |
| EXISTING GROUND | 20.00 | 20.00 | 20.00 | 20.00 | 20.00 | 20.00 | 20.00 | 20.00 |

| | | | | | | | |
|---|--|--|---|--|--|---|---------------------------------------|
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|---|--|--|---|--|--|---|---------------------------------------|

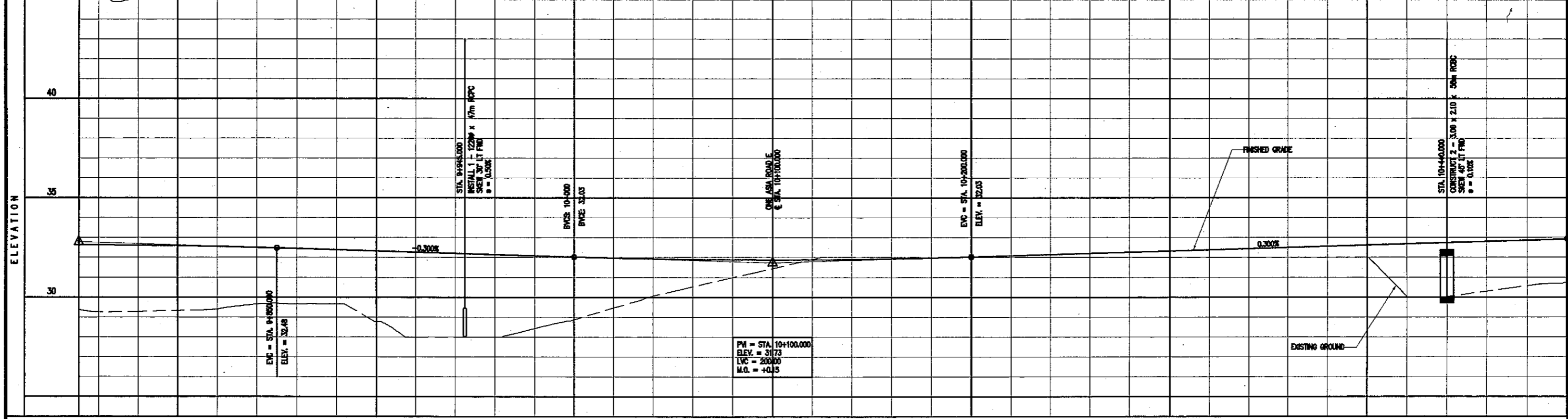
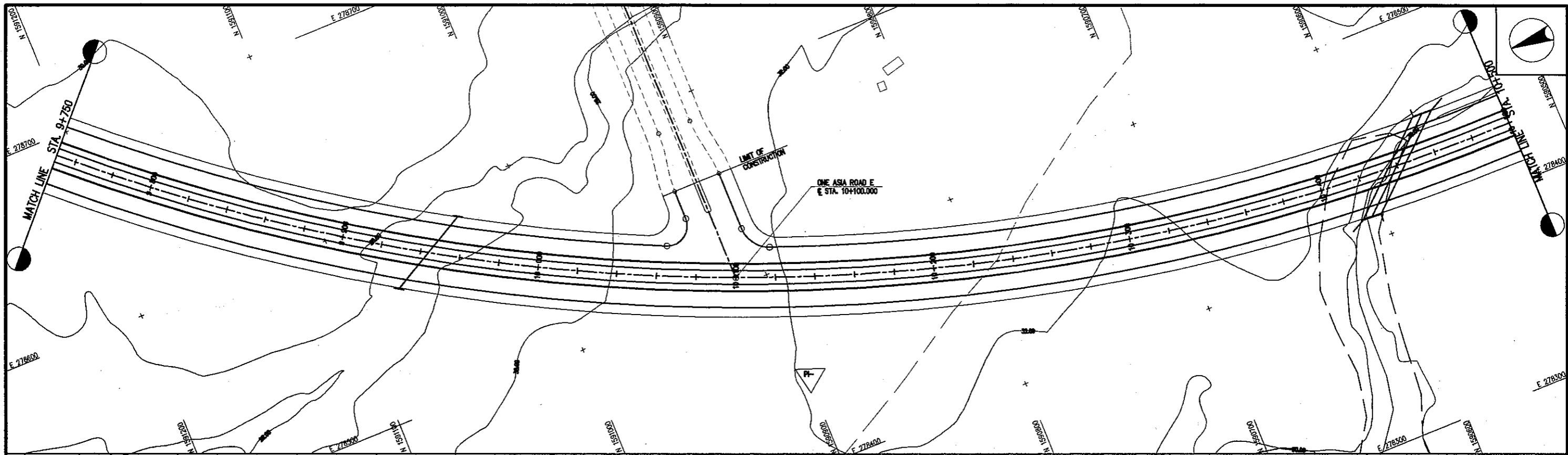


| STATION | 8+300 | 8+400 | 8+500 | 8+600 | 8+700 | 8+800 | 8+900 | 9+000 |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|
| FINISHED GRADE | 24.51 | 24.56 | 24.66 | 24.74 | 24.81 | 24.86 | 24.97 | 25.04 |
| EXISTING GROUND | 24.00 | 24.00 | 24.00 | 24.00 | 24.00 | 24.00 | 24.00 | 24.00 |
| EAST SERVICE RD | (S) | (S) | (S) | (S) | (S) | (S) | (S) | (S) |
| BUSWAY | (S) | (S) | (S) | (S) | (S) | (S) | (S) | (S) |
| WEST SERVICE RD | (S) | (S) | (S) | (S) | (S) | (S) | (S) | (S) |

| | | | | | | | |
|---|---|---|---|--|--|---|---------------------------------------|
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|---|---|---|---|--|--|---|---------------------------------------|

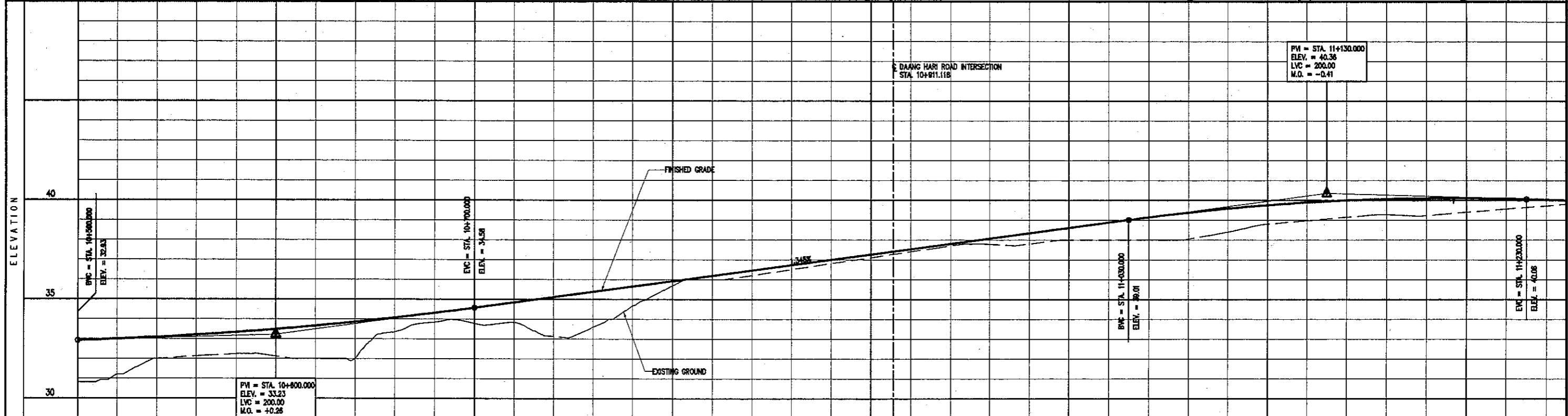
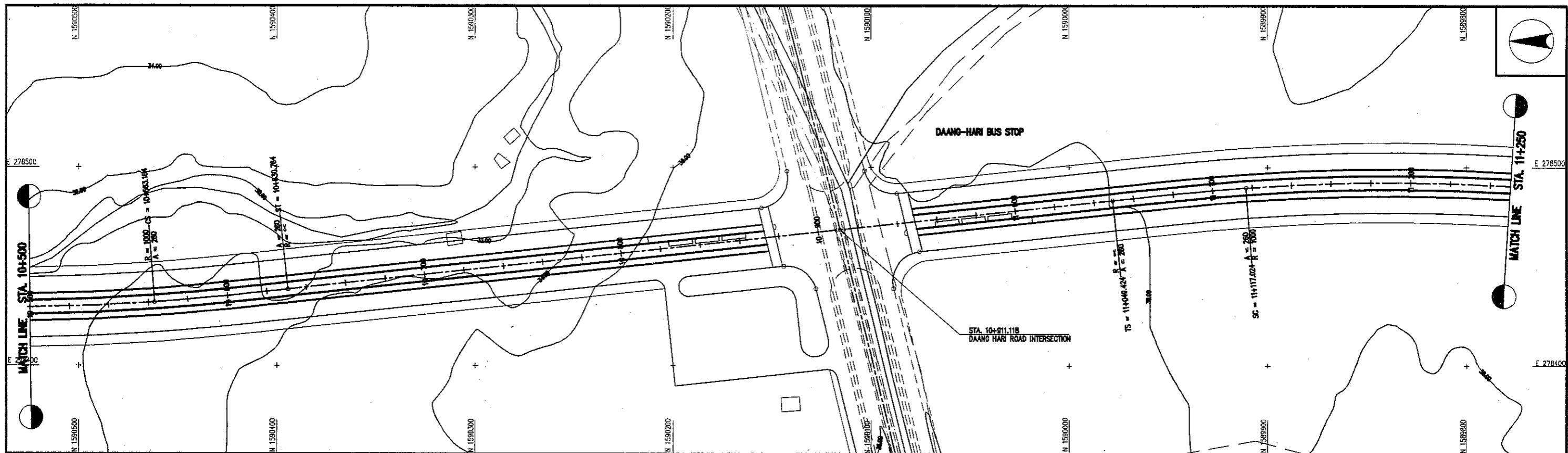


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|---|---|---|--|--|--|---|---------------------------------------|



| STATION | 9+800 | 9+900 | 10+000 | 10+100 | 10+200 | 10+300 | 10+400 | 10+500 |
|-----------------|-------|-------|--------|--------|--------|--------|--------|--------|
| FINISHED GRADE | 32.45 | 32.52 | 32.59 | 32.66 | 32.73 | 32.80 | 32.87 | 32.94 |
| EXISTING GROUND | 29.74 | 29.28 | 29.33 | 29.41 | 29.65 | 29.66 | 29.66 | 29.77 |
| EAST SERVICE RD | (S1) | (S1) | (S1) | (S1) | (S1) | (S1) | (S1) | (S1) |
| BUSWAY | (S2) | (S2) | (S2) | (S2) | (S2) | (S2) | (S2) | (S2) |
| WEST SERVICE RD | (S1) | (S1) | (S1) | (S1) | (S1) | (S1) | (S1) | (S1) |

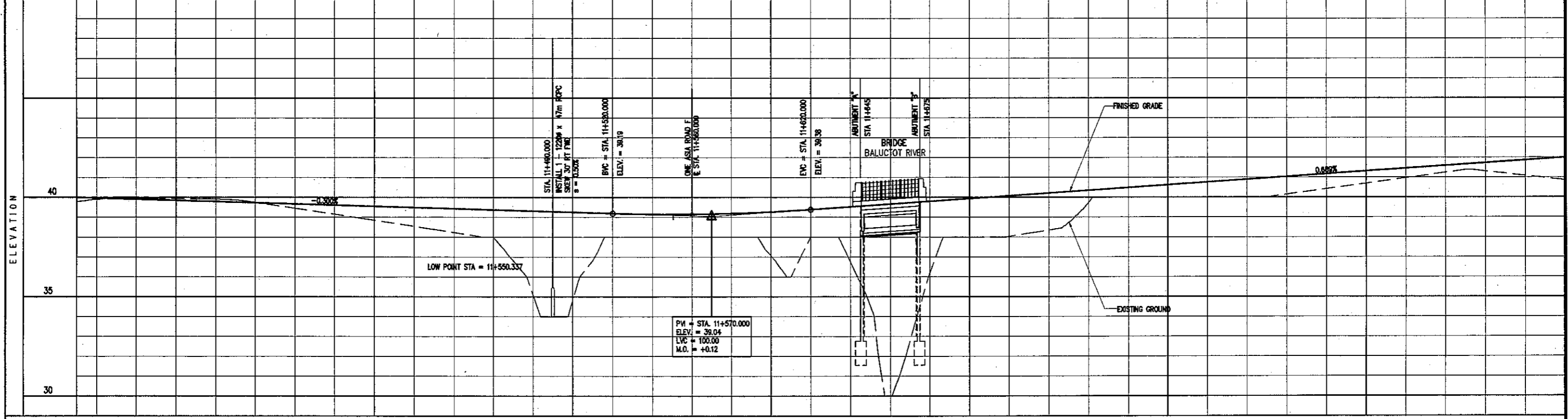
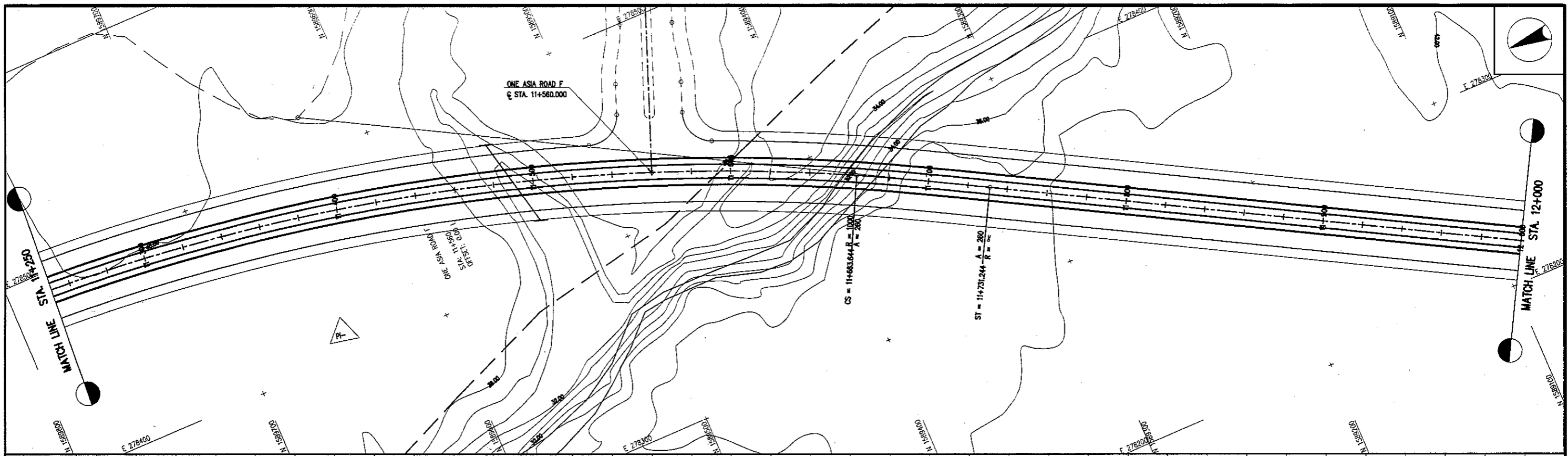
| | | | | | | | |
|-----------------------------------|---------------------------------------|--|---|---|--|--|-------------------------------|
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|-----------------------------------|---------------------------------------|--|---|---|--|--|-------------------------------|



| STATION | 10+500 | 10+600 | 10+700 | 10+800 | 10+900 | 11+000 | 11+100 | 11+200 |
|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|
| FINISHED GRADE | 32.83 | 33.00 | 33.08 | 33.20 | 33.34 | 33.49 | 33.67 | 33.85 |
| EXISTING GROUND | 30.80 | 31.20 | 32.00 | 32.13 | 32.24 | 32.34 | 32.42 | 32.50 |

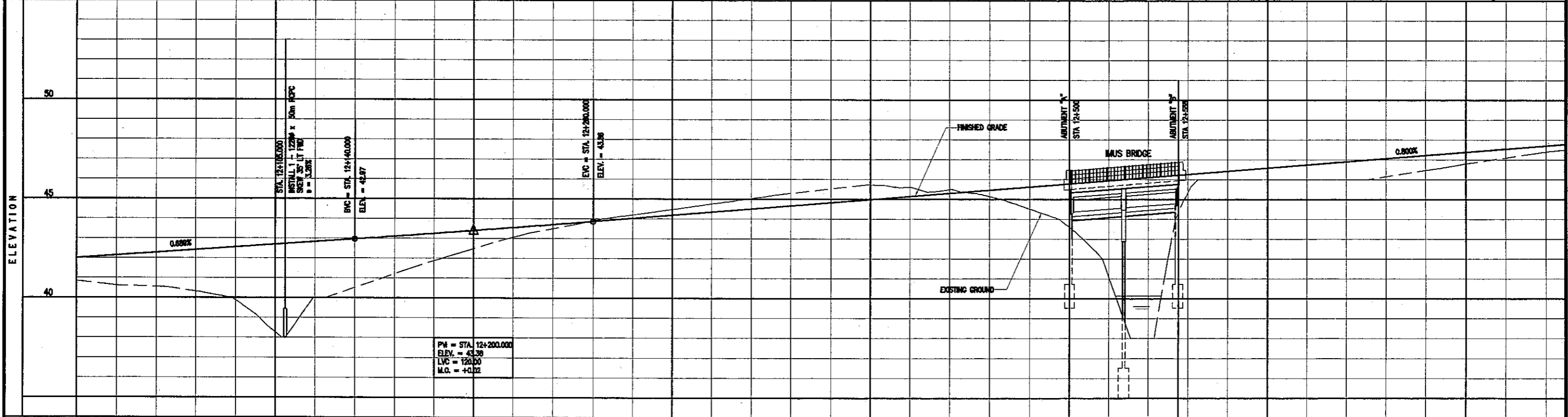
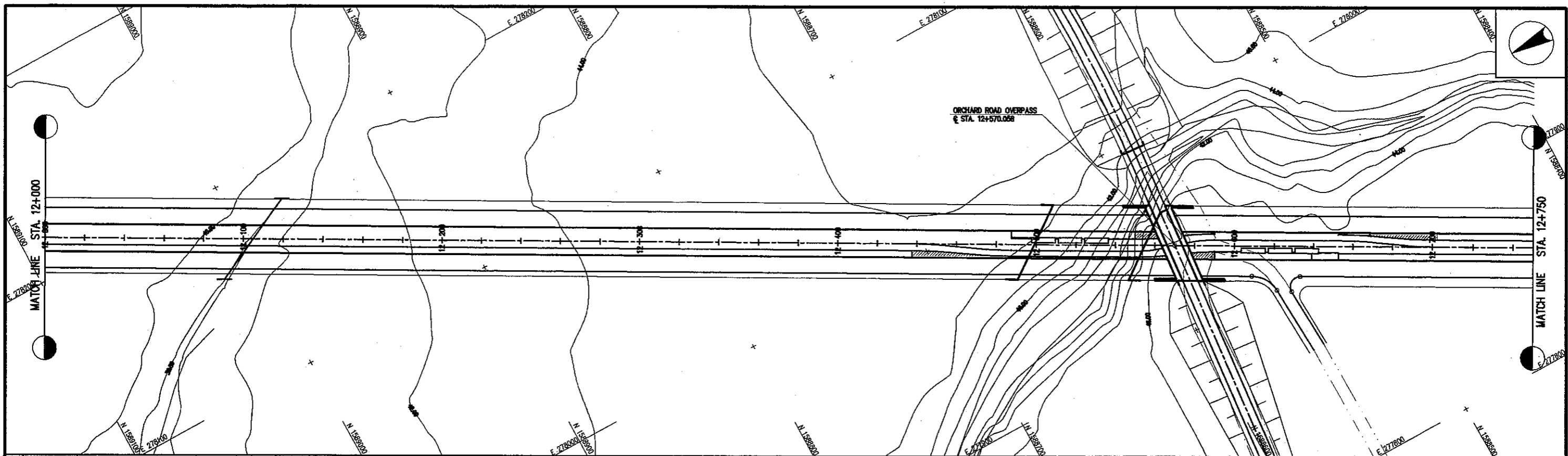
| STATION | 10+500 | 10+600 | 10+700 | 10+800 | 10+900 | 11+000 | 11+100 | 11+200 |
|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|
| FINISHED GRADE | 33.83 | 33.99 | 34.08 | 34.20 | 34.34 | 34.49 | 34.67 | 34.85 |
| EXISTING GROUND | 30.80 | 31.20 | 32.00 | 32.13 | 32.24 | 32.34 | 32.42 | 32.50 |

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|---------------------------------------|---|---|--|---|---|--|-------------------------------|
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|---------------------------------------|---|---|--|---|---|--|-------------------------------|



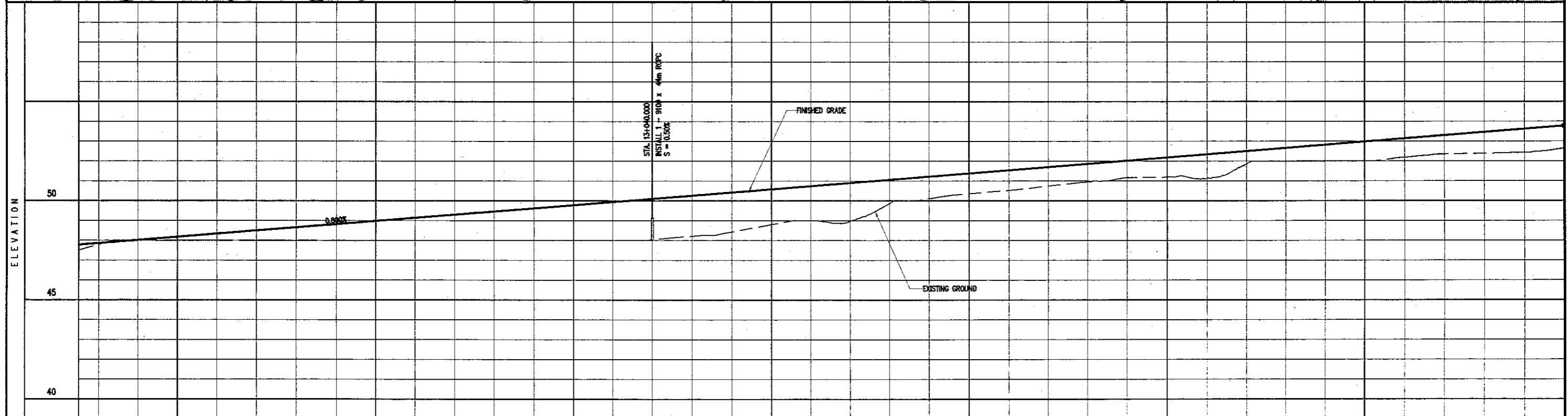
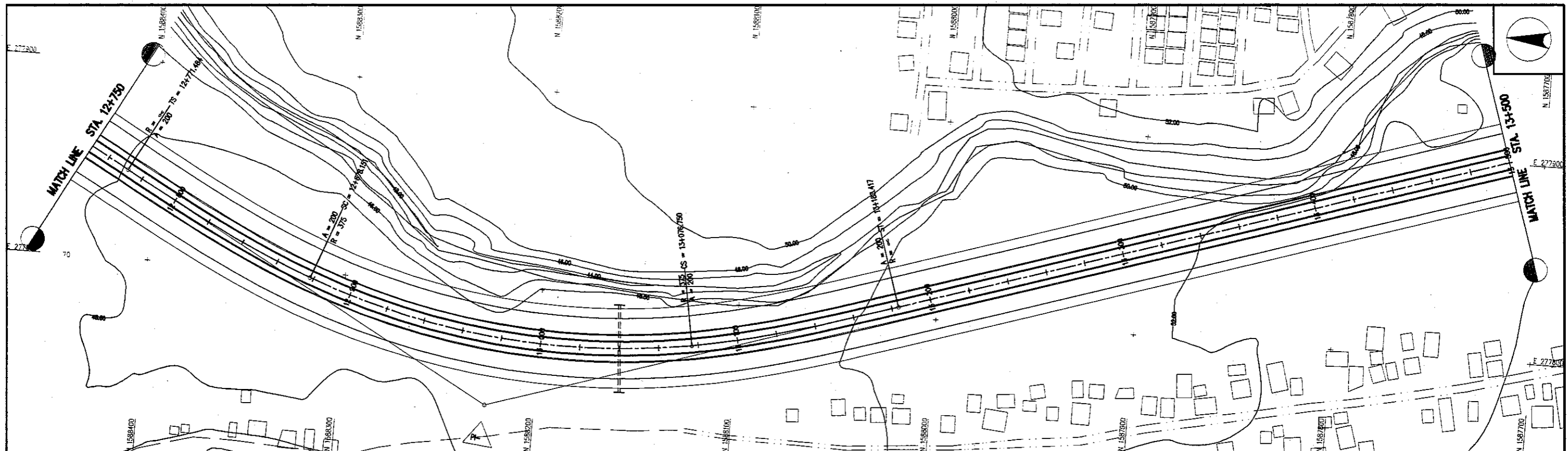
| STATION | 11+300 | 11+400 | 11+500 | 11+600 | 11+700 | 11+800 | 11+900 | 12+000 |
|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|
| FINISHED GRADE | 39.97 | 39.91 | 39.85 | 39.79 | 39.73 | 39.67 | 39.61 | 39.55 |
| EXISTING GROUND | 39.92 | 40.00 | 39.95 | 39.92 | 39.75 | 39.73 | 39.46 | 39.16 |
| EAST SERVICE RD | | | | | | | | |
| BUSWAY | | | | | | | | |
| WEST SERVICE RD | | | | | | | | |

| | | | | | | | |
|---|--|--|---|--|---|--|--------------------------------|
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|---|--|--|---|--|---|--|--------------------------------|



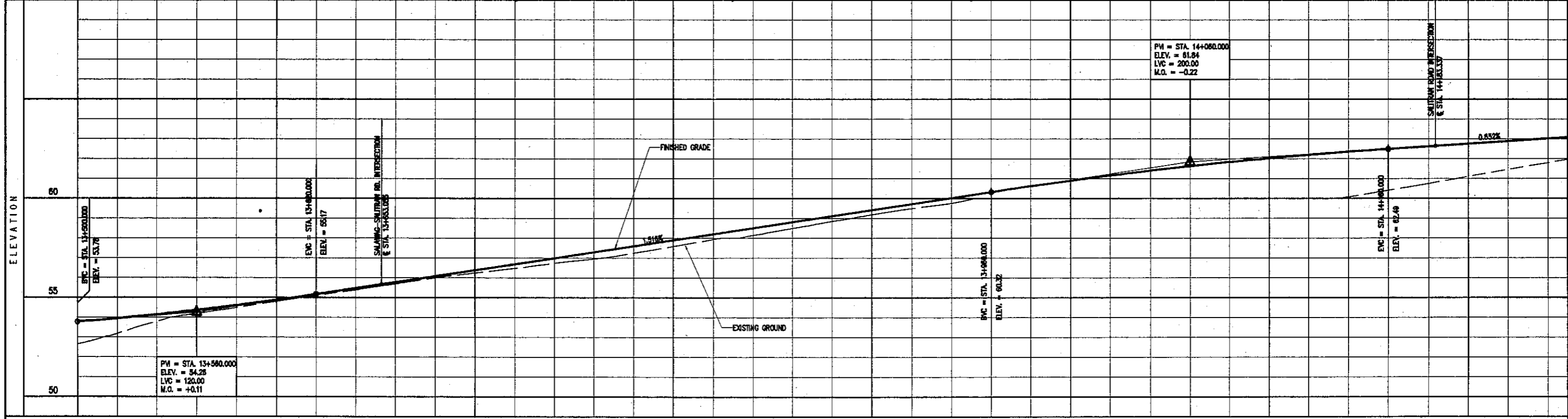
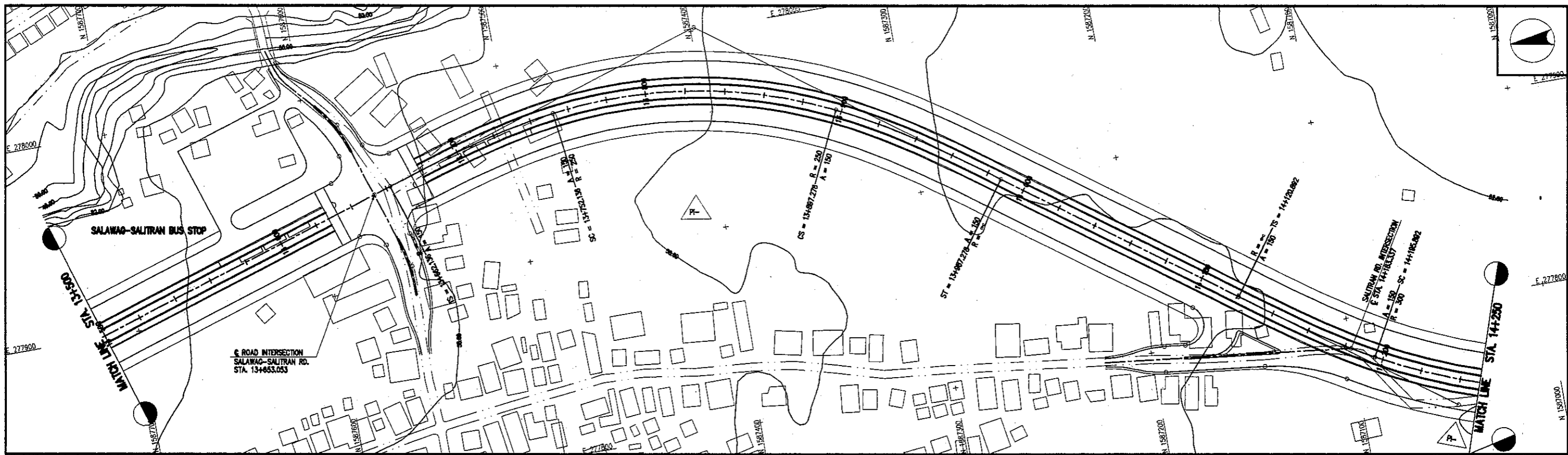
| STATION | 12+000 | 12+100 | 12+200 | 12+300 | 12+400 | 12+500 | 12+600 | 12+700 |
|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|
| FINISHED GRADE | 42.00 | 42.14 | 42.28 | 42.42 | 42.55 | 42.69 | 42.83 | 42.97 |
| EXISTING GROUND | 40.86 | 40.63 | 40.56 | 40.33 | 39.88 | 39.29 | 40.00 | 40.51 |
| EAST SERVICE RD | (S) | (S) | (S) | (S) | (S) | (S) | (S) | (S) |
| BUSWAY | (S) | (S) | (S) | (S) | (S) | (S) | (S) | (S) |
| WEST SERVICE RD | (S) | (S) | (S) | (S) | (S) | (S) | (S) | (S) |

| | | | | | | | |
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|---|---|---|---|--|--|---|---------------------------------------|



| STATION | 12+500 | 12+600 | 12+700 | 12+800 | 12+900 | 13+000 | 13+100 | 13+200 | 13+300 | 13+400 | 13+500 |
|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| FINISHED GRADE | 47.79 | 48.02 | 48.10 | 48.34 | 48.50 | 48.65 | 48.82 | 48.98 | 49.14 | 49.30 | 49.46 |
| EXISTING GROUND | 47.79 | 48.00 | 48.00 | 48.00 | 48.00 | 48.00 | 48.00 | 48.00 | 48.00 | 48.00 | 48.00 |

| | | | | | | | |
|-----------------------|---------------------------------------|--|---|---|--|----------------------------|----------------|
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| | | | | | PLAN AND PROFILE STA. 12+750 TO STA. 13+500 | 1:2000 HOR. 1:200 VERT. | C-18 |



| STATION | 13+500 | 13+600 | 13+700 | 13+800 | 13+900 | 14+000 | 14+100 | 14+200 |
|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|
| FINISHED GRADE | 53.75 | 54.37 | 55.08 | 55.79 | 56.50 | 57.21 | 57.92 | 58.63 |
| EXISTING GROUND | 52.65 | 53.19 | 53.80 | 54.41 | 55.02 | 55.63 | 56.24 | 56.85 |

| STATION | 13+500 | 13+600 | 13+700 | 13+800 | 13+900 | 14+000 | 14+100 | 14+200 |
|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| BL | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| SL | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| SP | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

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Republic of the Philippines

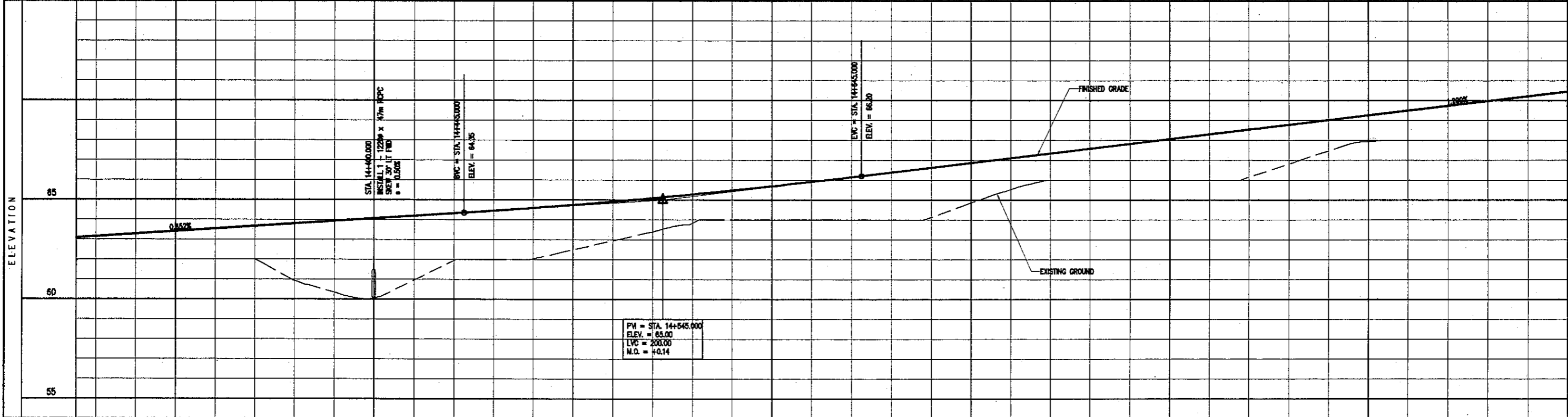
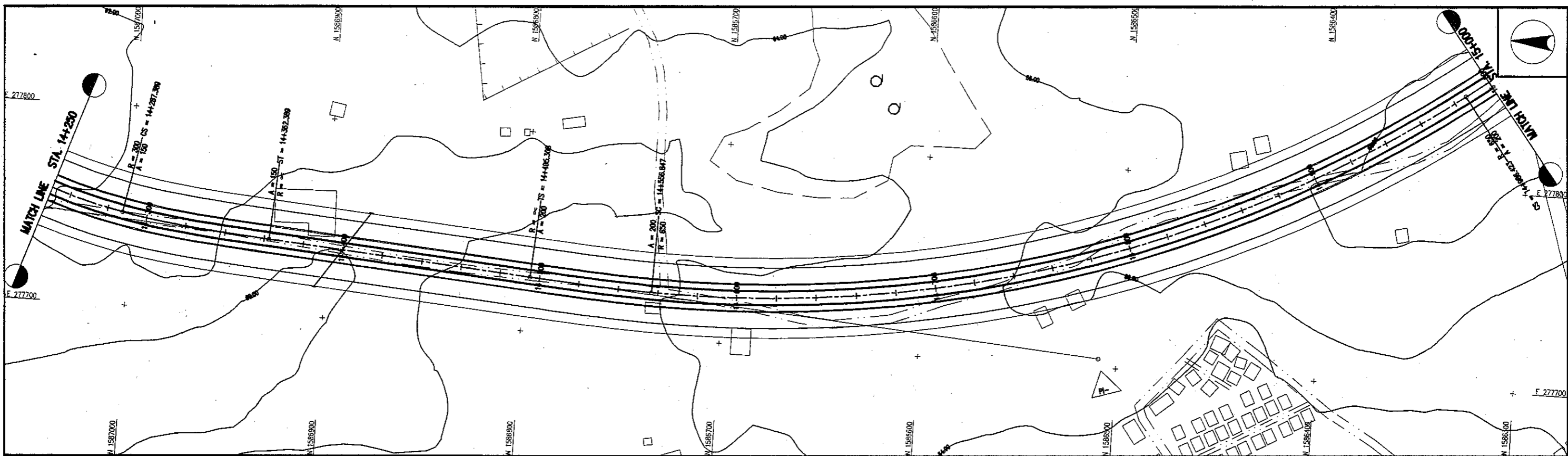
JAPAN INTERNATIONAL
COOPERATION AGENCY
Japan

**THE FEASIBILITY STUDY OF
THE PROPOSED CAVITE
BUSWAY SYSTEM**

SHEET CONTENTS
PLAN AND PROFILE
STA. 13+500 TO STA. 14+250

SCALE
1:2000 HOR.
1:200 VERT.

Drawing Number
C-19



| STATION | 14+300 | 14+400 | 14+500 | 14+600 | 14+700 | 14+800 | 14+900 | 15+000 |
|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|
| FINISHED GRADE | 63.14 | 63.27 | 63.40 | 63.53 | 63.66 | 63.79 | 63.92 | 64.05 |
| EXISTING GROUND | 62.00 | 62.00 | 62.00 | 62.00 | 62.00 | 62.00 | 62.00 | 62.00 |

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Republic of the Philippines

JICA
JAPAN INTERNATIONAL
COOPERATION AGENCY
Japan

**THE FEASIBILITY STUDY OF
THE PROPOSED CAVITE
BUSWAY SYSTEM**

SHEET CONTENTS

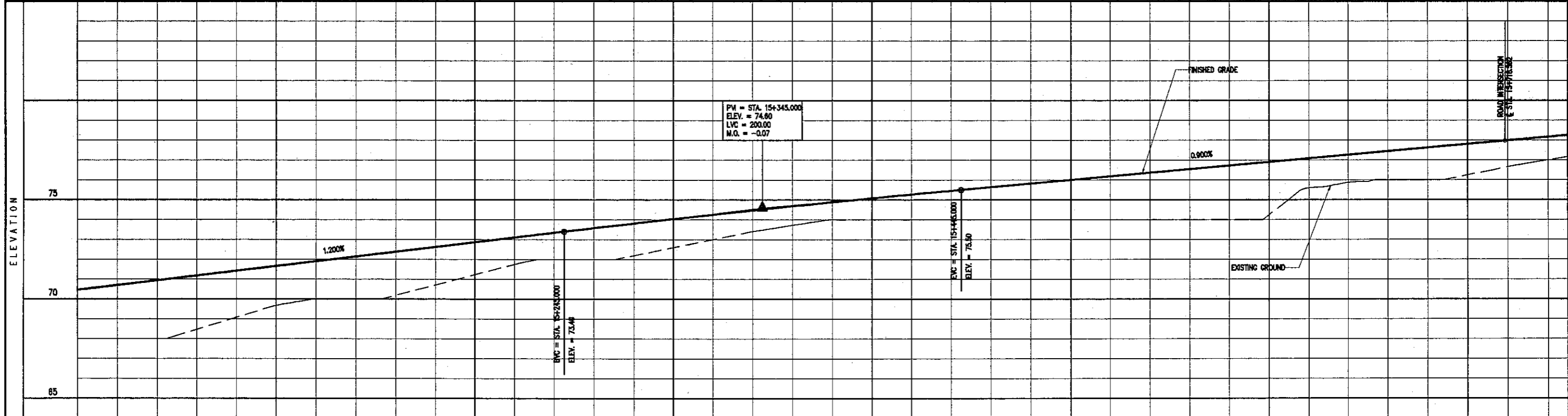
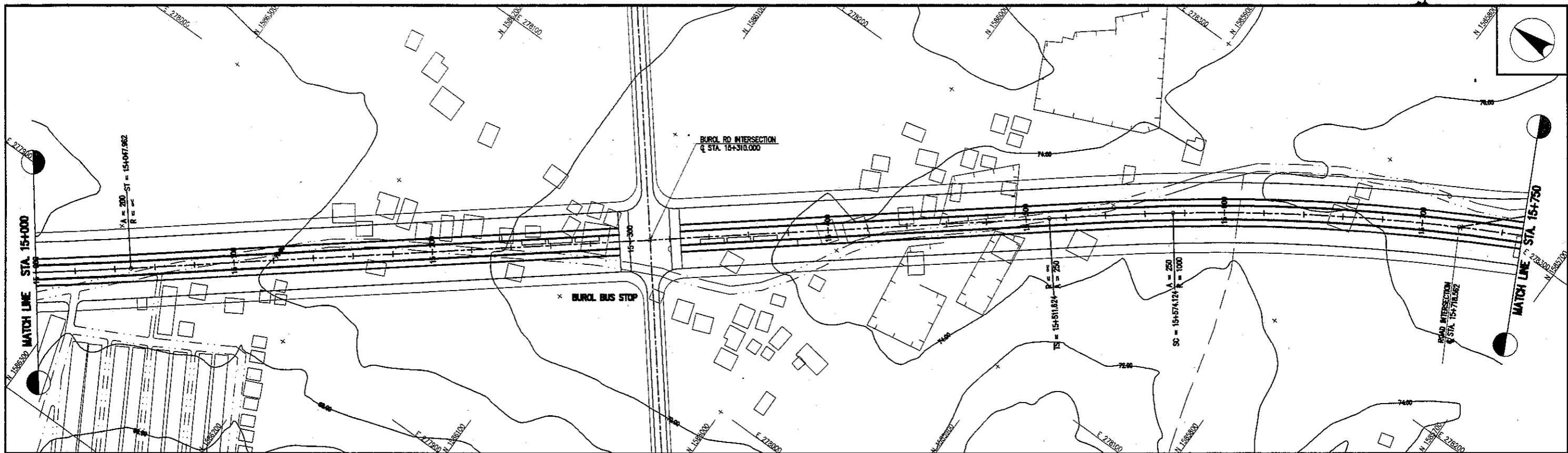
PLAN AND PROFILE
STA. 14+250 TO STA. 15+000

SCALE

1:2000 HOR.
1:200 VERT.

Drawing Number

C-20

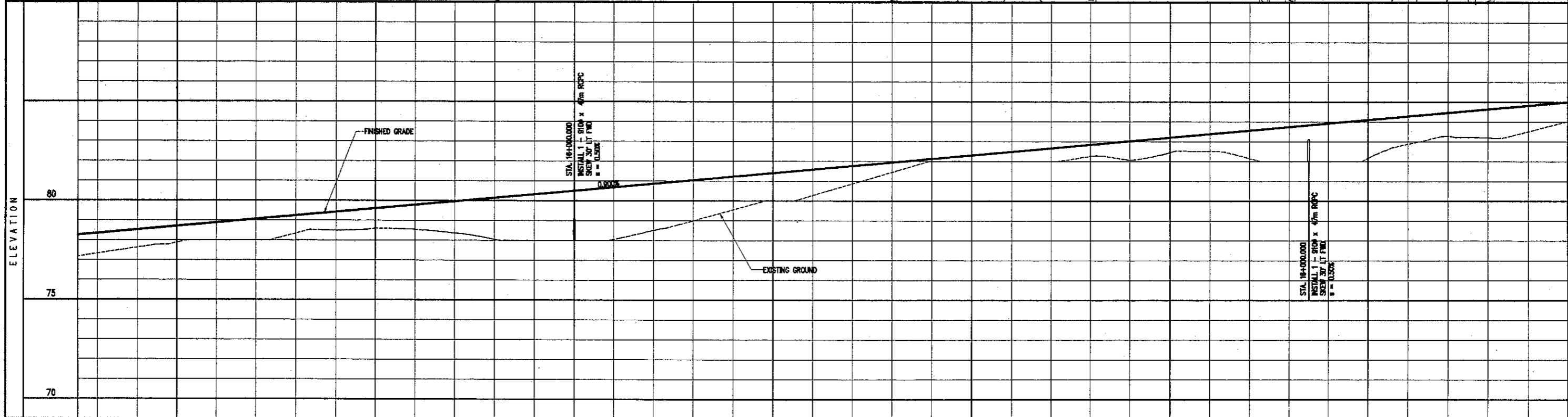
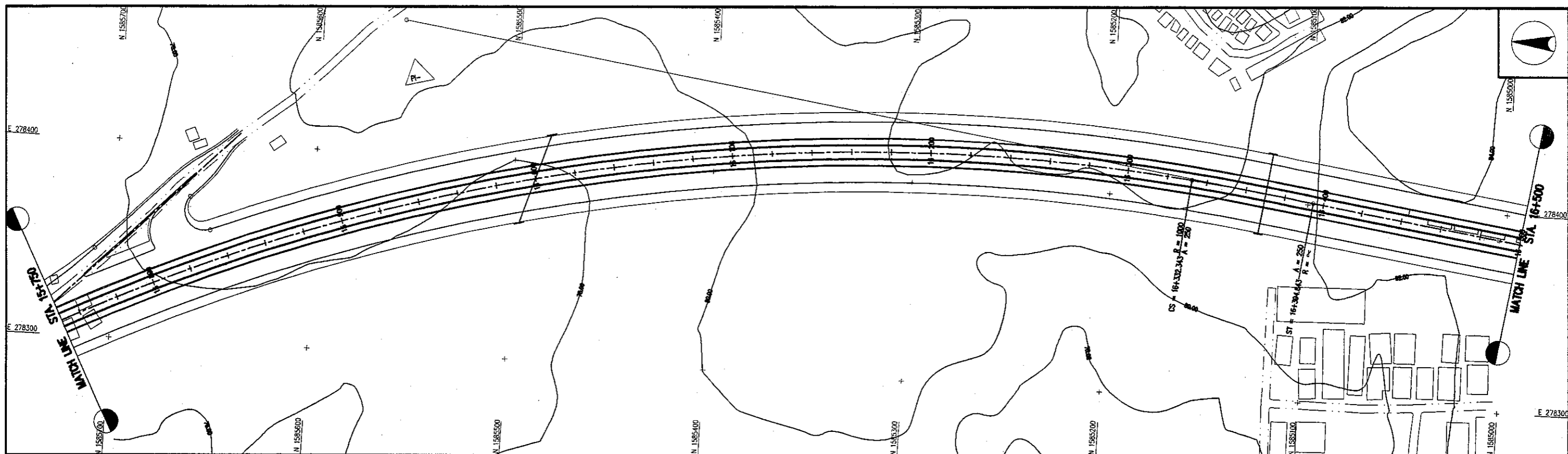


| STATION | 15+000 | 15+100 | 15+200 | 15+300 | 15+400 | 15+500 | 15+600 | 15+700 |
|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|
| FINISHED GRADE | 70.46 | 70.70 | 70.84 | 71.10 | 71.42 | 71.88 | 72.14 | 72.38 |
| EXISTING GROUND | 68.00 | 68.00 | 68.47 | 69.08 | 69.68 | 70.00 | 70.19 | 70.71 |

| STATION | 15+000 | 15+100 | 15+200 | 15+300 | 15+400 | 15+500 | 15+600 | 15+700 |
|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|
| FINISHED GRADE | 72.38 | 72.62 | 72.95 | 73.10 | 73.54 | 73.98 | 74.04 | 74.26 |
| EXISTING GROUND | 72.00 | 72.20 | 72.60 | 73.00 | 73.40 | 73.72 | 74.00 | 74.26 |

| STATION | 15+000 | 15+100 | 15+200 | 15+300 | 15+400 | 15+500 | 15+600 | 15+700 |
|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|
| FINISHED GRADE | 74.26 | 74.47 | 74.68 | 74.88 | 75.08 | 75.27 | 75.48 | 75.64 |
| EXISTING GROUND | 74.00 | 74.00 | 74.00 | 74.00 | 74.00 | 74.00 | 74.00 | 74.00 |


| | | | | | | | |
|---|---|---|--|--|---|--|--|
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|---|---|---|--|--|---|--|--|



| STATION | 15+800 | 15+900 | 16+000 | 16+100 | 16+200 | 16+300 | 16+400 | 16+500 |
|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|
| FINISHED GRADE | 77.54 | 77.62 | 77.70 | 77.78 | 77.86 | 77.94 | 78.02 | 78.10 |
| EXISTING GROUND | 77.33 | 77.63 | 77.88 | 78.00 | 78.15 | 78.49 | 78.60 | 78.78 |
| EAST SERVICE RD | 77.53 | 77.63 | 77.68 | 77.70 | 77.78 | 77.84 | 77.90 | 77.96 |
| BUSWAY | 77.53 | 77.63 | 77.68 | 77.70 | 77.78 | 77.84 | 77.90 | 77.96 |
| WEST SERVICE RD | 77.53 | 77.63 | 77.68 | 77.70 | 77.78 | 77.84 | 77.90 | 77.96 |

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**THE FEASIBILITY STUDY OF
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SHEET CONTENTS

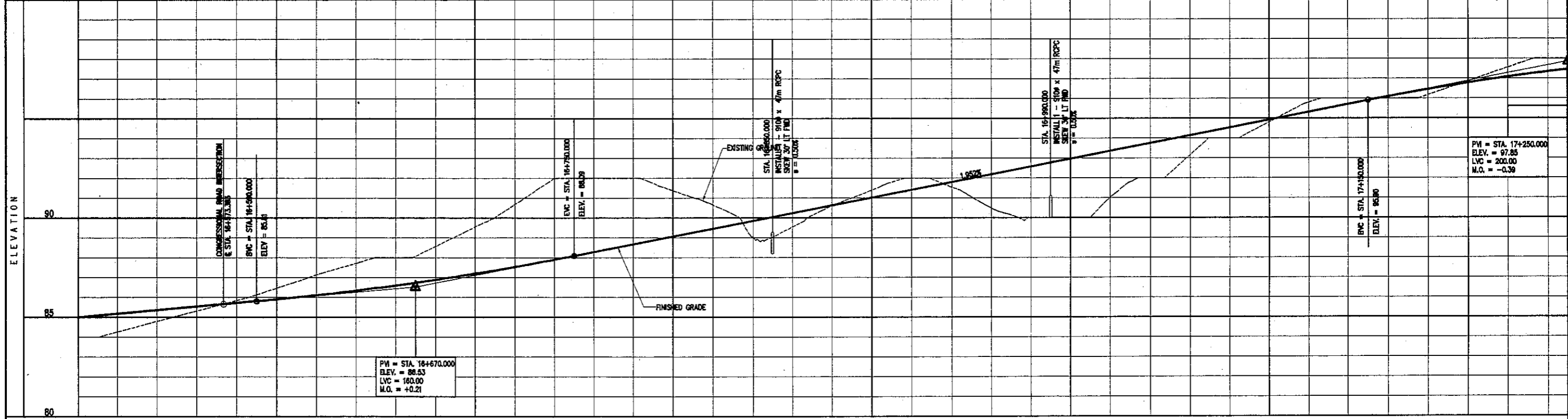
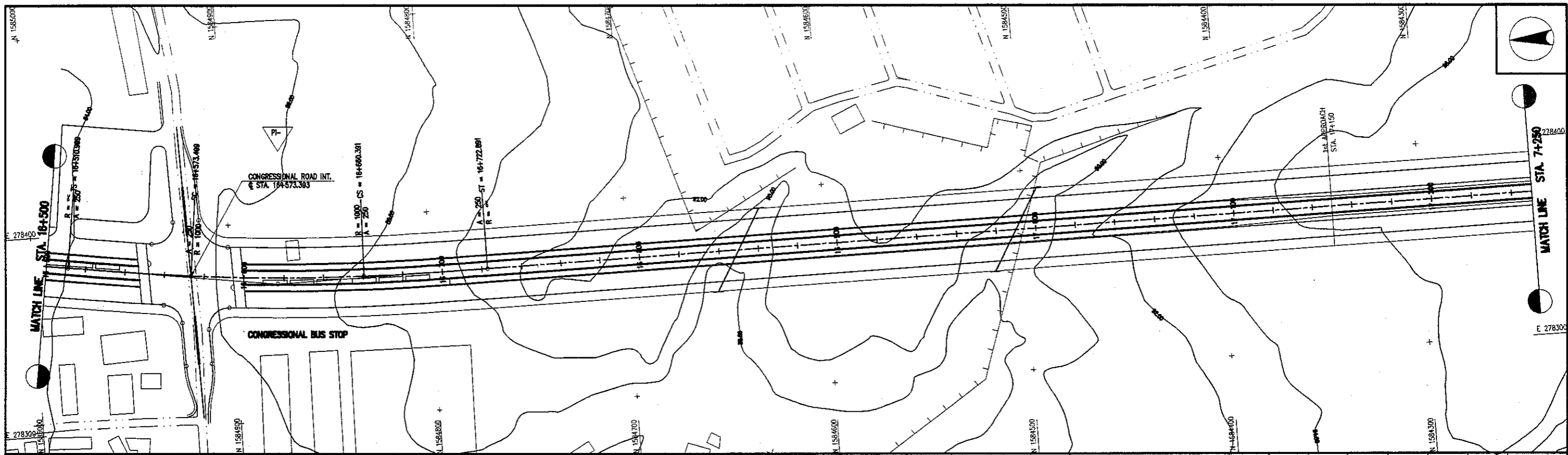
PLAN AND PROFILE
STA. 15+750 TO STA. 16+500

SCALE

1:2000 HOR.
1:200 VERT.

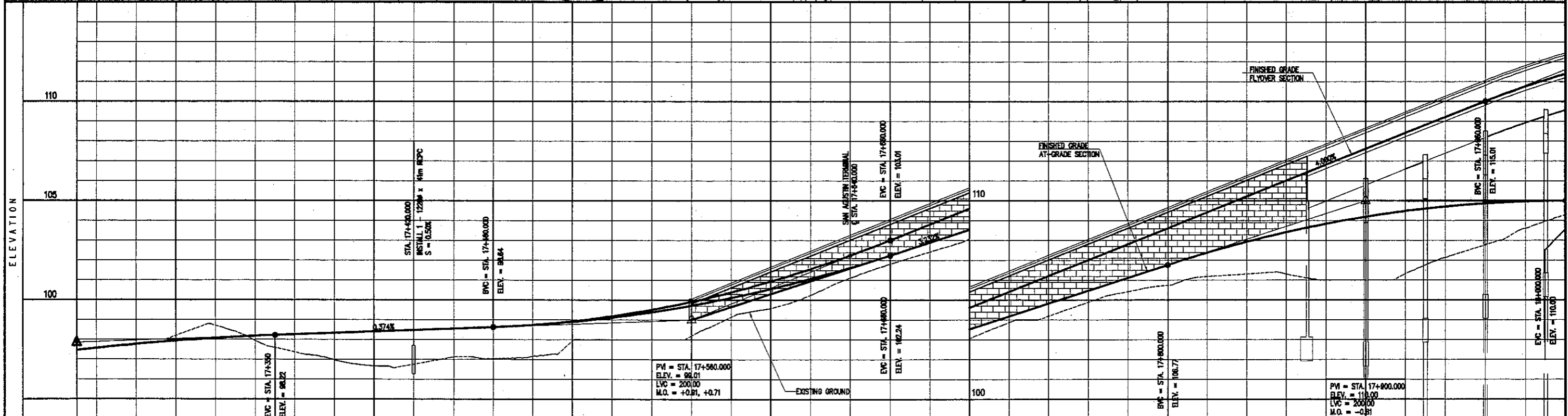
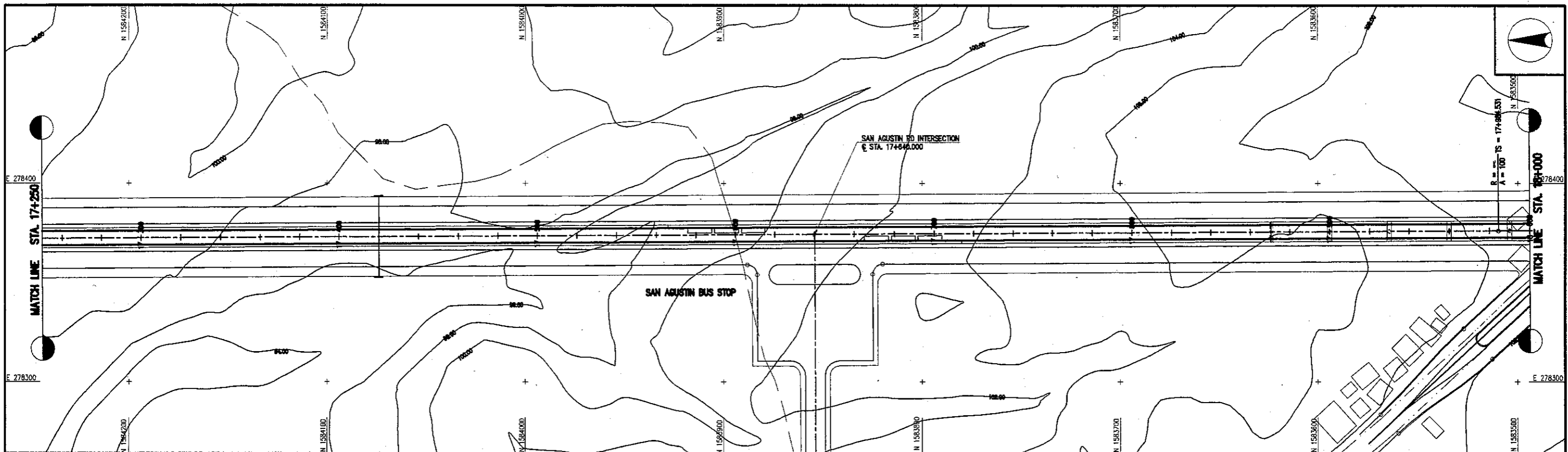
Drawing Number

C-22



| STATION | 16+500 | 16+600 | 16+700 | 16+800 | 16+900 | 17+000 | 17+100 | 17+200 |
|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|
| FINISHED GRADE | 84.00 | 85.18 | 86.36 | 87.54 | 88.72 | 89.90 | 91.08 | 92.26 |
| EXISTING GROUND | 84.00 | 84.27 | 84.60 | 85.37 | 85.84 | 86.72 | 87.13 | 87.71 |

| | | | | | | | |
|---|---|--|---|--|--|---|---------------------------------------|
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|---|---|--|---|--|--|---|---------------------------------------|



| STATION | 17+300 | 17+400 | 17+500 | 17+600 | 17+700 | 17+800 | 17+900 | 18+000 |
|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|
| FINISHED GRADE | 97.57 | 97.77 | 97.94 | 98.06 | 98.18 | 98.26 | 98.34 | 98.41 |
| EXISTING GROUND | 98.00 | 98.20 | 98.71 | 97.94 | 97.37 | 96.99 | 96.57 | 96.76 |

| STATION | 17+300 | 17+400 | 17+500 | 17+600 | 17+700 | 17+800 | 17+900 | 18+000 |
|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|
| FINISHED GRADE | 98.00 | 98.05 | 98.10 | 98.15 | 98.20 | 98.25 | 98.30 | 98.35 |
| EXISTING GROUND | 98.00 | 98.05 | 98.10 | 98.15 | 98.20 | 98.25 | 98.30 | 98.35 |

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**THE FEASIBILITY STUDY OF
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SHEET CONTENTS

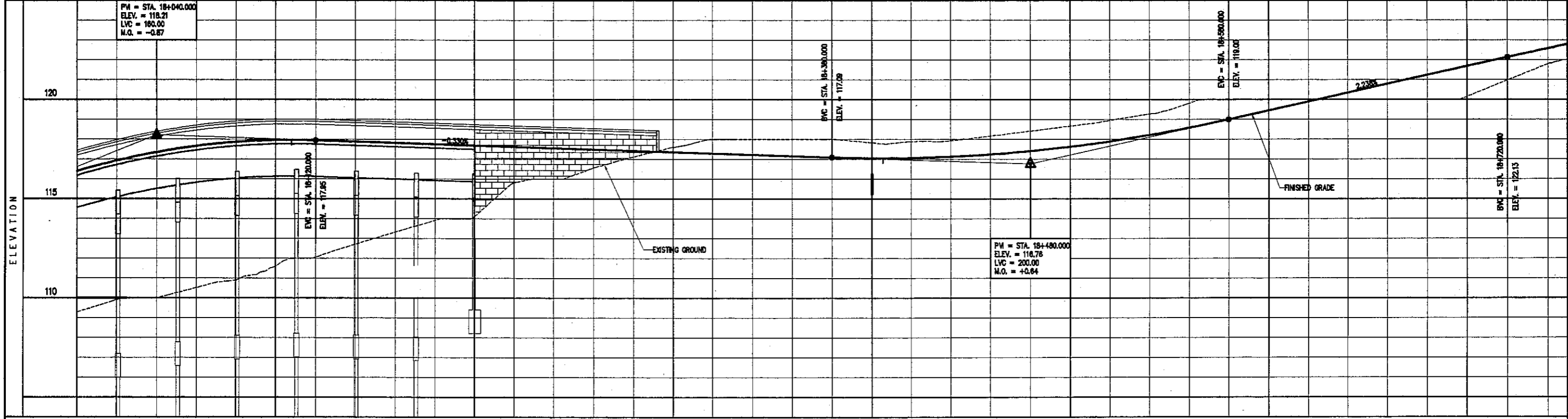
PLAN AND PROFILE
STA. 17+250 TO STA. 18+000

SCALE

1:2000 HOR.
1:200 VERT.

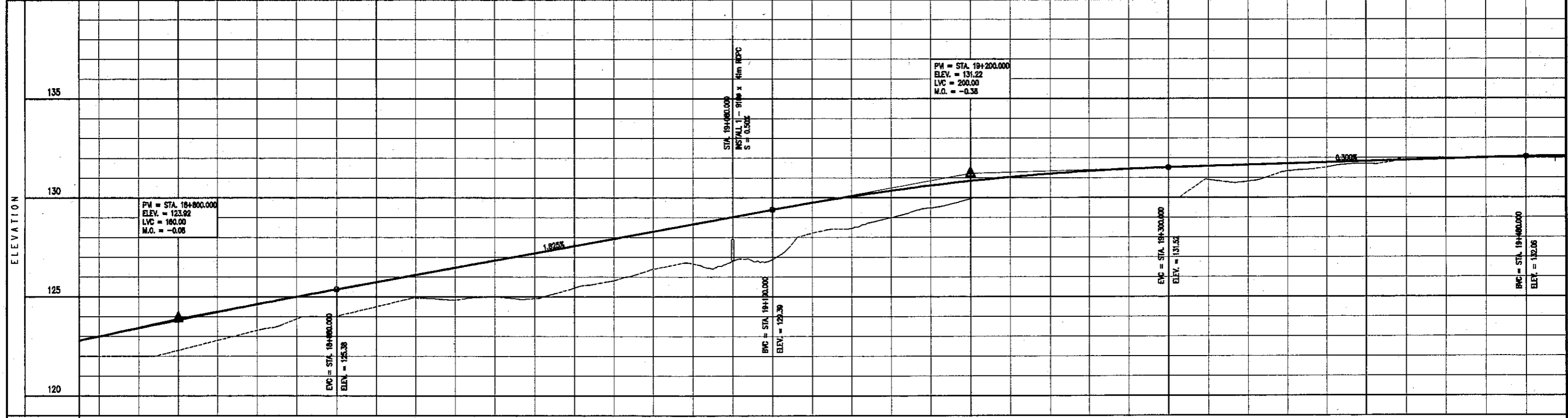
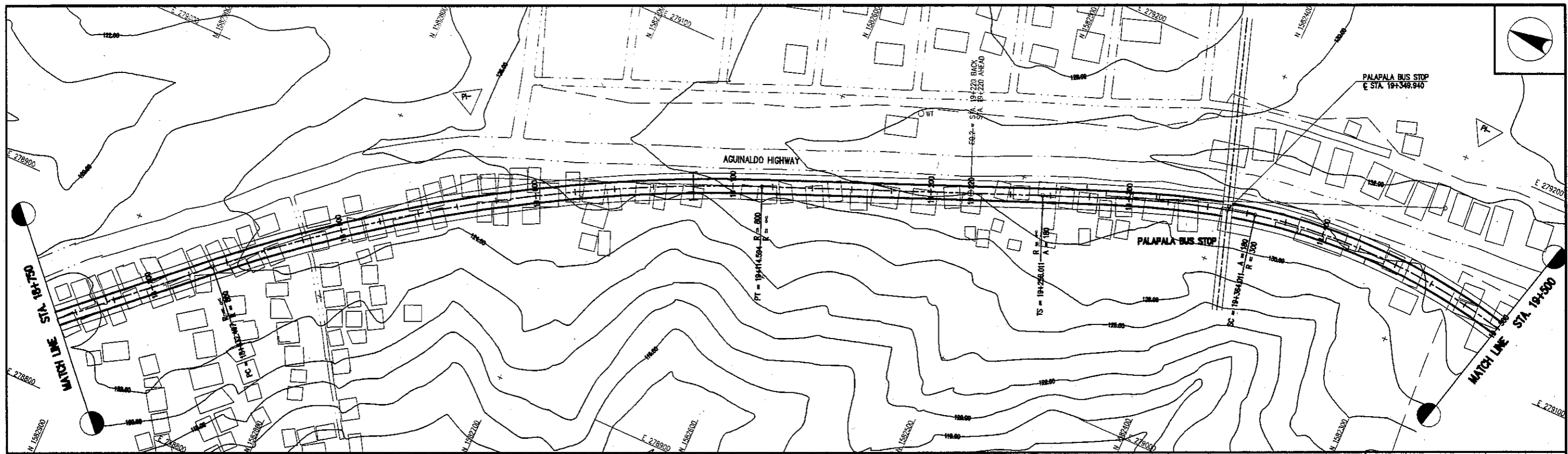
Drawing Number

C-24

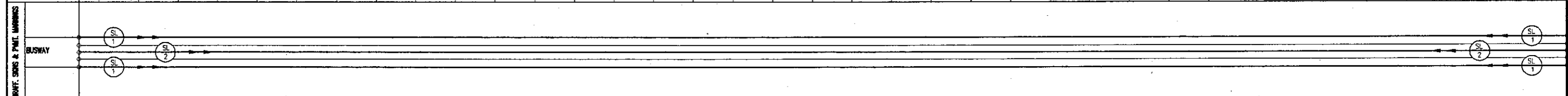


| STATION | 18+000 | 18+100 | 18+200 | 18+300 | 18+400 | 18+500 | 18+600 | 18+700 |
|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|
| FINISHED GRADE | 118.39 | 118.82 | 117.34 | 117.86 | 117.28 | 117.62 | 117.95 | 122.57 |
| EXISTING GROUND | 109.24 | 110.00 | 110.52 | 110.90 | 111.60 | 112.05 | 112.71 | 120.95 |

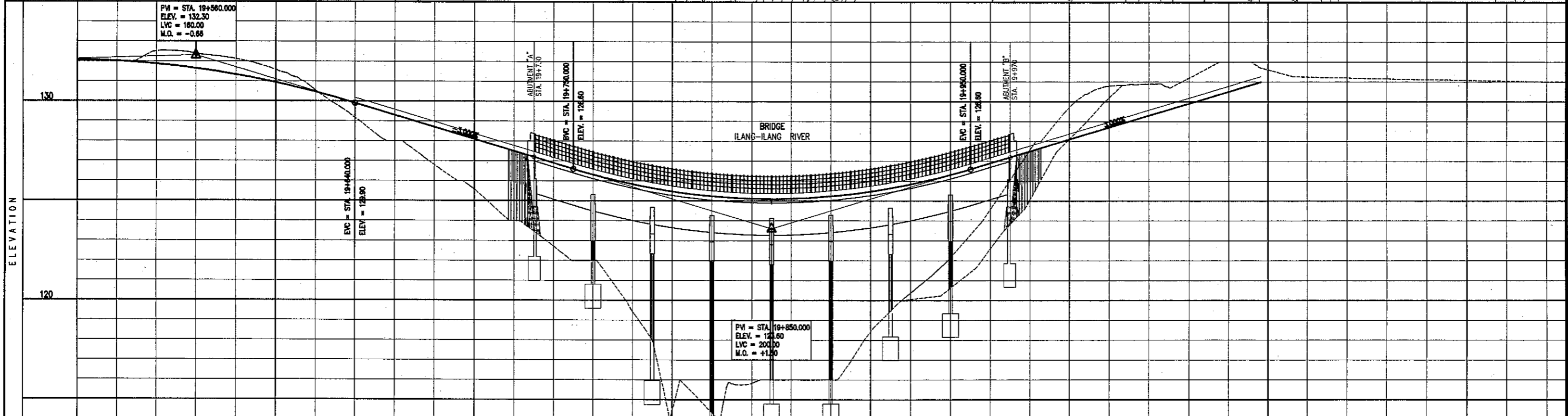
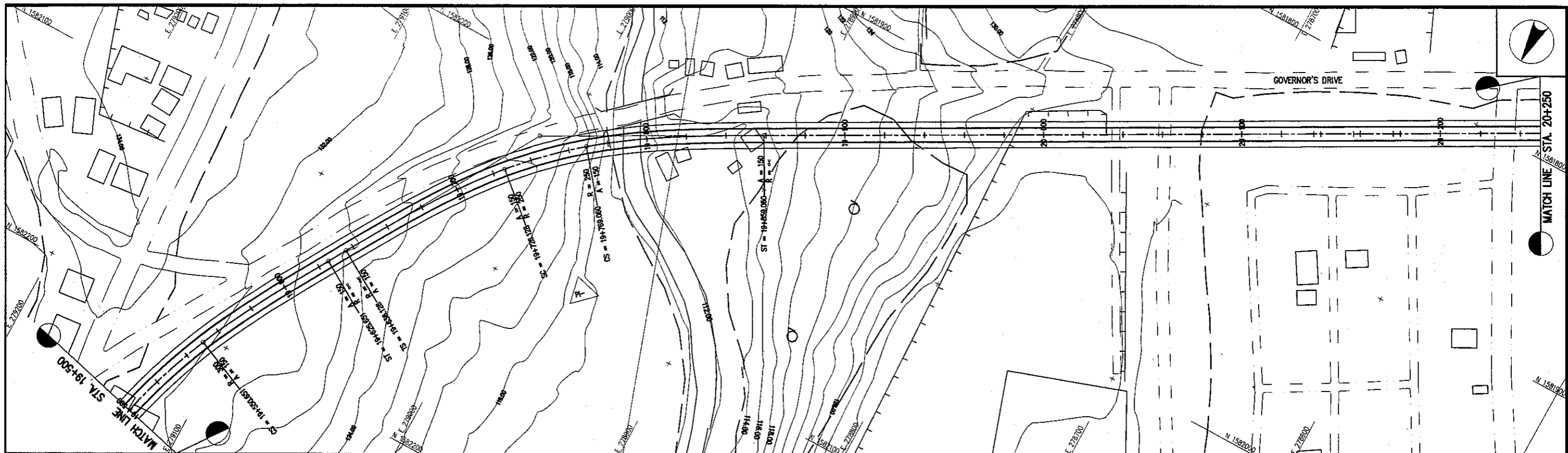
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|---|---|---|--|--|--|---|---------------------------------------|



| STATION | 18+800 | 18+900 | 19+000 | 19+100 | 19+200 | 19+300 | 19+400 | 19+500 |
|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|
| FINISHED GRADE | 122.00 | 122.00 | 122.00 | 122.00 | 122.00 | 122.00 | 122.00 | 122.00 |
| EXISTING GROUND | 122.00 | 122.00 | 122.00 | 122.00 | 122.00 | 122.00 | 122.00 | 122.00 |



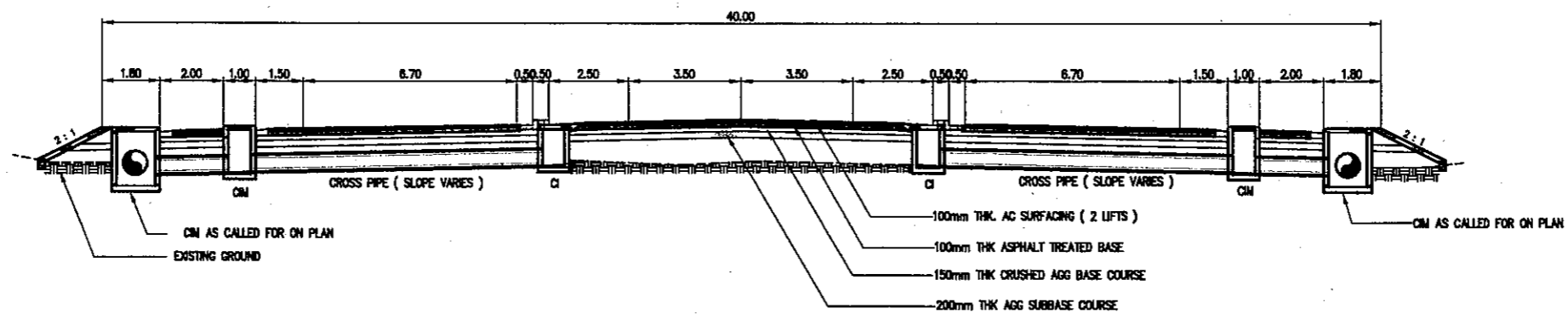
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|---|---|---|---|--|--|---|---------------------------------------|
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|---|---|---|---|--|--|---|---------------------------------------|



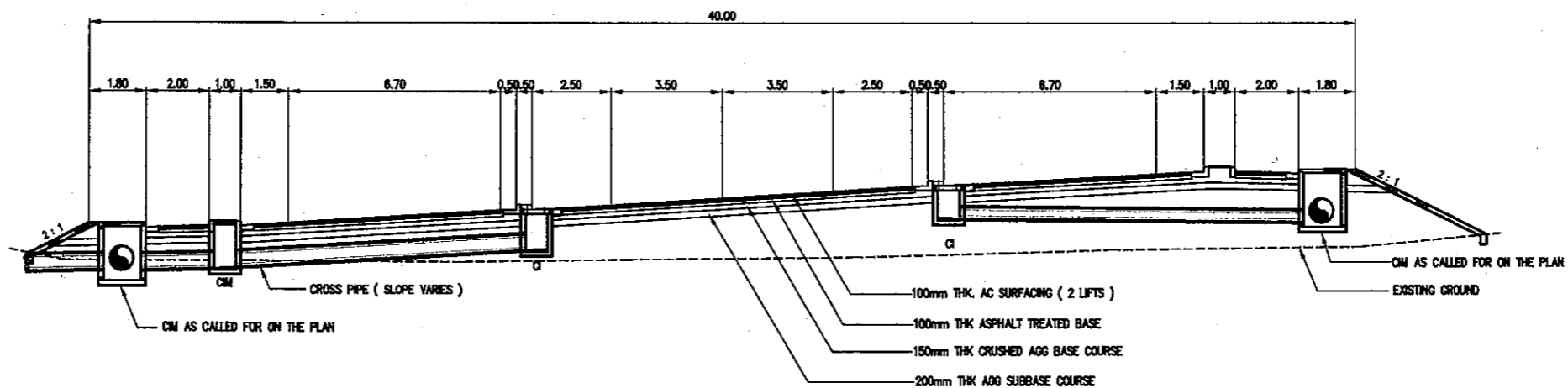
| STATION | 19+500 | 19+600 | 19+700 | 19+800 | 19+900 | 20+000 | 20+100 |
|-----------------------------|--------|--------|--------|--------|--------|--------|--------|
| FINISHED GRADE | 132.00 | 132.00 | 131.67 | 131.64 | 131.53 | 130.83 | 129.90 |
| EXISTING GROUND | 132.00 | 132.50 | 131.64 | 131.53 | 131.58 | 130.83 | 129.90 |
| TRANS. SEGS & PNT. MARKINGS | | | | | | | |

| | | | | | | | |
|---|--|--|---|--|--|---|---------------------------------------|
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|---|--|--|---|--|--|---|---------------------------------------|




D. DRAINAGE SYSTEM

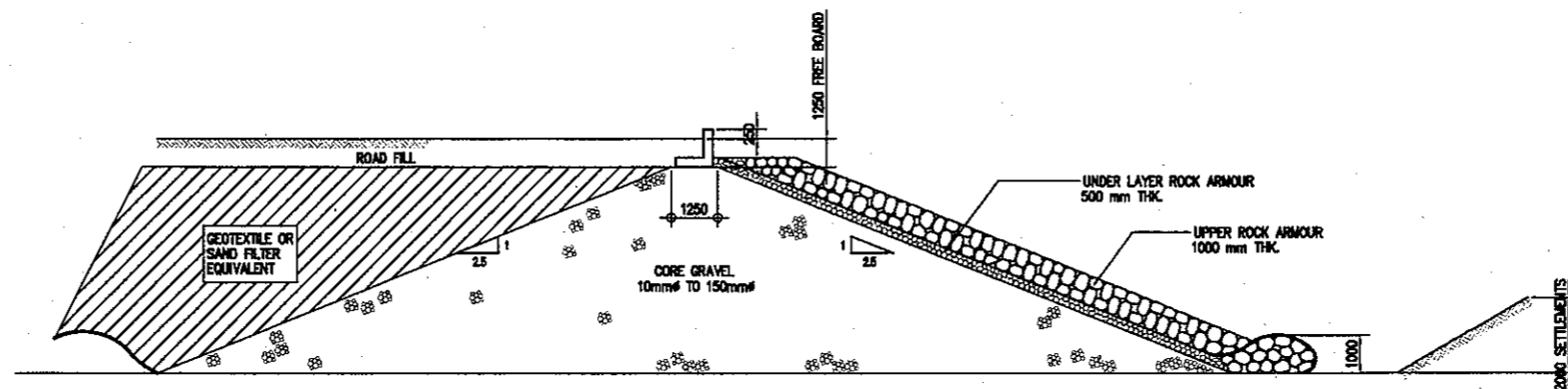


1 ORDINARY SECTION
D-01 SCALE: 1 : 100






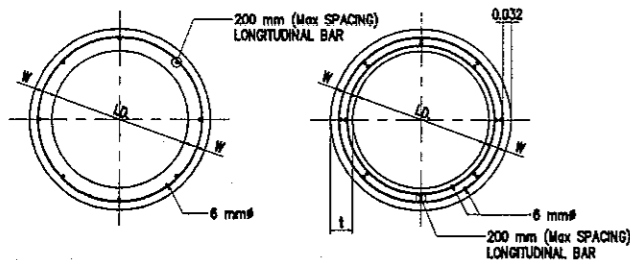
2 SUPERELEVATED SECTION
D-01 SCALE: 1 : 100

| | | | | | | | |
|---|---|---|--|--|--|--------------------------|--------------------------------|
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|---|---|---|--|--|--|--------------------------|--------------------------------|



1 DETAIL (FILL SECTION)
 D-01A SCALE: AS SHOWN

| | | | | | | | |
|---|--|--|---|--|---|---------------------------|---------------------------------|
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|---|--|--|---|--|---|---------------------------|---------------------------------|



ONE LINE OF CIRCULAR REINFORCEMENT

1A SECTION

TWO LINES OF CIRCULAR REINFORCEMENT

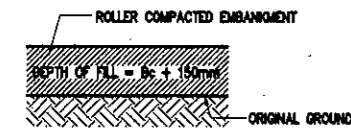
1B SECTION

- FOR 63mm OR LESS, WALL THICKNESS PROTECTIVE COVERING SHALL BE 10mm.
- FOR 63mm OR GREATER, WALL THICKNESS CIRCULAR REINFORCEMENT SHALL BE PLACED 35 TO 50% OF WALL THICKNESS FROM THE INNER SURFACE

NOTE :

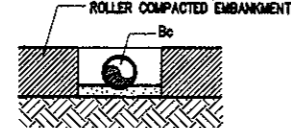
- THE SPACING CENTER TO CENTER OF ADJACENT RINGS OF CIRCUMFERENTIAL REINFORCEMENT IN A CAGE SHALL NOT EXCEED 107mm.
- 910mm OR MORE WALL THICKNESS THE BELL OR THE SPIGOT OF THE JOINT SHALL CONTAIN AT LEAST ONE CIRCUMFERENTIAL REINFORCEMENT.
- FOR WELDED CONNECTION, THE MINIMUM LAP REQUIREMENT SHALL BE 51mm.
- FOR THE WIRE CONNECTION, THE MINIMUM LAP REQUIREMENT SHALL BE 20x DIAMETER (Deformed bar) & 40x DIAMETER ()

FINISH GRADE LINE



STEP 1 - CONSTRUCT COMPACTED EMBANKMENT TO AN ELEVATION 150mm ABOVE TOP OF PROPOSED PIPE.

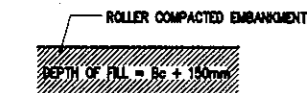
FINISH GRADE LINE



STEP 2 - TRENCH THROUGH THIS COMPACTED EMBANKMENT AND INSTALL PIPE OVER GRANULAR BEDDING BACKFILL WITH COMPACTED GRANULAR MATERIAL.

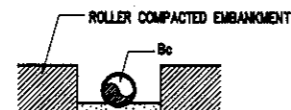
2A CALIFORNIA METHOD A

FINISH GRADE LINE



STEP 1 - CONSTRUCT COMPACTED EMBANKMENT TO TOTAL DEPTH EQUAL TO TWICE THE OUTSIDE DIAMETER OF THE PIPE.

FINISH GRADE LINE



STEP 2 - TRENCH THROUGH THIS COMPACTED EMBANKMENT AND INSTALL PIPE BACKFILL WITH COMPACTED GRANULAR MATERIAL.

2B CALIFORNIA METHOD B

2 METHOD OF PIPE INSTALLATION

D-02 NOT TO SCALE

CLASS II STANDARD RCP

| INTERNAL DIAMETER OF PIPE (mm) | WALL THICKNESS A CONCRETE STRENGTH, 280 kg/cm ² (4000psi) | | | | WALL THICKNESS B CONCRETE STRENGTH, 280 kg/cm ² (4000psi) | | | | STRENGTH TEST REQUIREMENTS KILOGRAM PER LINEAR METER OF PIPE | | | |
|--------------------------------|--|--|------------|--|--|---------------------|--|---------------|--|--------------|-----------------------------|-------|
| | WALL THICKNESS (mm) | CIRCULAR REINFORCEMENT cm ² / m | | ELLIPTICAL REINFORCEMENT cm ² / m | DEPTH P (mm) | WALL THICKNESS (mm) | CIRCULAR REINFORCEMENT cm ² / m | | ELLIPTICAL REINFORCEMENT cm ² / m | DEPTH P (mm) | THREE - EDGE BEARING METHOD | |
| | | INNER CAGE | OUTER CAGE | | | | LOAD TO PROVIDE 0.25mm CRACK | ULTIMATE LOAD | | | | |
| 480 (18) | 51 | 1.5 | - | 1.5 | 45 | 63 | 1.5 | - | 1.5 | 45 | 2250 | 3400 |
| 610 (24) | 63 | 2.8 | - | 2.3 | 45 | 76 | 1.5 | - | 1.5 | 45 | 3000 | 4500 |
| 780 (30) | 70 | 3.2 | - | 3.0 | 51 | 89 | 3.0 | - | 2.5 | 51 | 3700 | 5500 |
| 910 (36) | 76 | 3.0 | 2.1 | 3.2 | 63 | 101 | 2.5 | 1.9 | 2.5 | 63 | 4500 | 6700 |
| 1070 (42) | 89 | 3.4 | 2.5 | 3.8 | 63 | 114 | 3.2 | 2.5 | 3.6 | 63 | 5200 | 7800 |
| 1220 (48) | 101 | 4.5 | 3.4 | 4.9 | 63 | 127 | 3.8 | 3.0 | 4.2 | 63 | 8000 | 8900 |
| 1520 (60) | 127 | 5.4 | 4.7 | 7.0 | 63 | 152 | 5.3 | 4.0 | 5.9 | 63 | 7500 | 11000 |

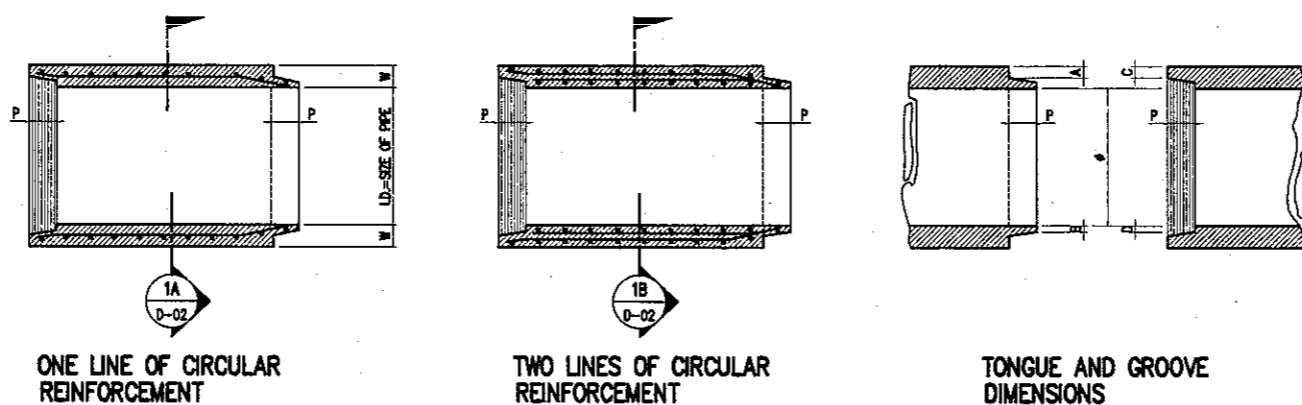
CLASS IV STRENGTH RCP

| WALL THICKNESS (mm) | CIRCULAR REINFORCEMENT cm ² / m | | ELLIPTICAL REINFORCEMENT cm ² / m | DEPTH P (mm) | STRENGTH TEST REQUIREMENTS KILOGRAM PER LINEAR METER OF PIPE | |
|---|--|------------|--|--------------|--|---------------|
| | INNER CAGE | OUTER CAGE | | | LOAD TO PROVIDE 0.25mm CRACK | ULTIMATE LOAD |
| | 76 | 3.0 | - | 2.3 | 45 | 4500 |
| 76 | 5.7 | - | 4.9 | 45 | 6000 | 9000 |
| 89 | 7.4 | - | 5.9 | 51 | 7400 | 11100 |
| 101 | 6.3 | 4.7 | 7.0 | 63 | 8900 | 13400 |
| 114 | 7.4 | 5.5 | 8.3 | 63 | 10500 | 15700 |
| 127 | 8.9 | 6.8 | 9.8 | 63 | 12000 | 17900 |
| CONCRETE STRENGTH, 350 kg/cm ² (4000psi) | | | | | 14800 | 22400 |
| 152 | 12.5 | 9.5 | 14.0 | 63 | | |

SAFE OVERFILLS ON COMMERCIAL GRAVITY-CAST MAXIMUM

NOTE : IN THE PRACTICAL APPLICATION OF THE ABOVE TABLES THE OVERFILL VALUES ARE NOT TO BE CONSIDERED CLOSER THAN THE NEAREST 50 CM DECIMALS OF A METRE ARE SHOWN TO FACILITATE PLOTTING OF DESIGN CURVES, IF DESIRED

| INSIDE DIAMETER (mm) | SPEC CRACKING D-LOAD, KILOGRAM / LINEAR METER PER MILLIMETER OF PIPE | | SAFE HEIGHTS OF OVERFILL IN METERS | | | |
|----------------------|--|----------|------------------------------------|----------|----------------|----------|
| | CLASS II | CLASS IV | STANDARD STRENGTH | | EXTRA STRENGTH | |
| | | | METHOD A | METHOD B | METHOD A | METHOD B |
| 610 (24) | 7.32 | 9.77 | 8.4 | NO LIMIT | 10.0 | NO LIMIT |
| 780 (30) | 6.59 | 9.77 | 7.8 | NO LIMIT | 10.2 | NO LIMIT |
| 910 (36) | 6.59 | 9.77 | 7.6 | NO LIMIT | 10.3 | NO LIMIT |
| 1070 (42) | 6.59 | 9.77 | 7.3 | 30.5 | 10.4 | NO LIMIT |
| 1220 (48) | 6.59 | 9.77 | 7.0 | 11.8 | 10.5 | NO LIMIT |
| 1520 (60) | 4.85 | 7.32 | 7.1 | 9.6 | 10.5 | NO LIMIT |



ONE LINE OF CIRCULAR REINFORCEMENT

TWO LINES OF CIRCULAR REINFORCEMENT

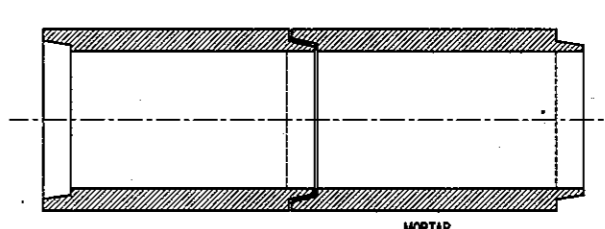
TONGUE AND GROOVE DIMENSIONS

1 LONGITUDINAL SECTION (TONGUE & GROOVE TYPE)

| ALL DIMENSIONS ARE IN (mm) | TONGUE | | GROOVE | |
|----------------------------|--------|----|--------|----|
| P | A | B | C | D |
| 45/51 | 23 | 20 | 20 | 23 |
| 63 | 33 | 30 | 30 | 33 |

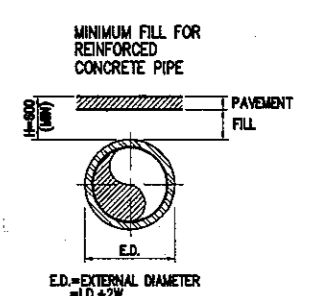
NOTE :

- H-MORE THAN 600mm OF COVER, USE STANDARD RCP CLASS OR FLEXIBLE PAVEMENT ON TRAFFIC LOADED LANES.
- H-LESS THAN 600mm OF COVER, USE EXTRA STRENGTH RCP CLASS IV FOR FLEXIBLE PAVT ON TRAFFIC LOADED LANES.
- CONC. GRADLE BEDDING SHALL BE USE WHENEVER RCP CROSSES ROADWAY WITH H-LESS THAN 600mm.
- FOR NON-LOAD TRAFFIC AREAS SUCH AS SIDEWALKS, GRASS OR SOODING COVER, SIDE-STRIP, AND SIDE PLANTING STRIP, USE MINIMUM COVER, OF H-0.30m FOR CLASS II RCP AND CLASS IV RCP FOR H LESS THAN 0.30m.



DET-EXTG RCP NEW RCP CONNECTION

NOT TO SCALE

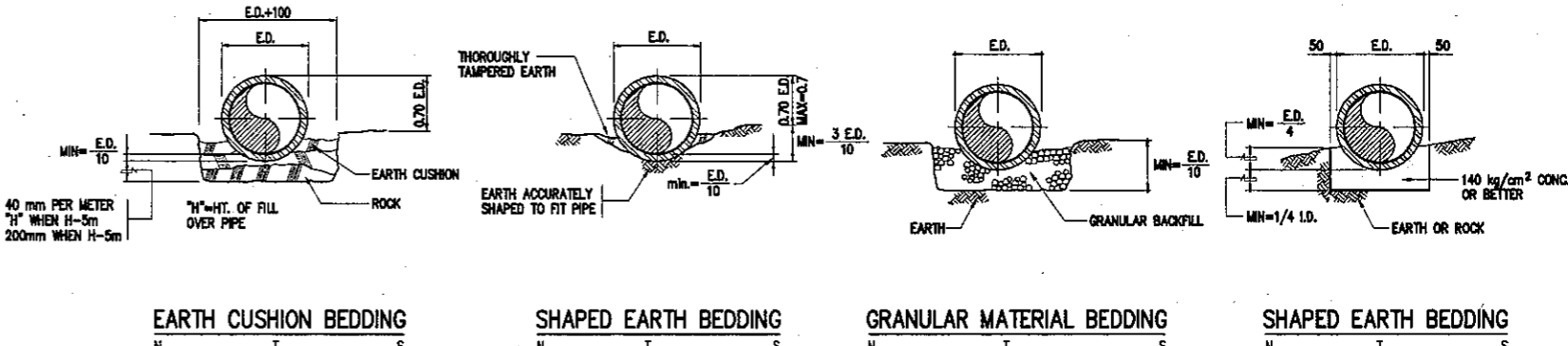


MINIMUM FILL FOR REINFORCED CONCRETE PIPE

E.D.=EXTERNAL DIAMETER =I.D.+2W

3 DETAIL OF PIPE JOINTS

D-02 NOT TO SCALE



EARTH CUSHION BEDDING

SHAPED EARTH BEDDING

GRANULAR MATERIAL BEDDING

SHAPED EARTH BEDDING

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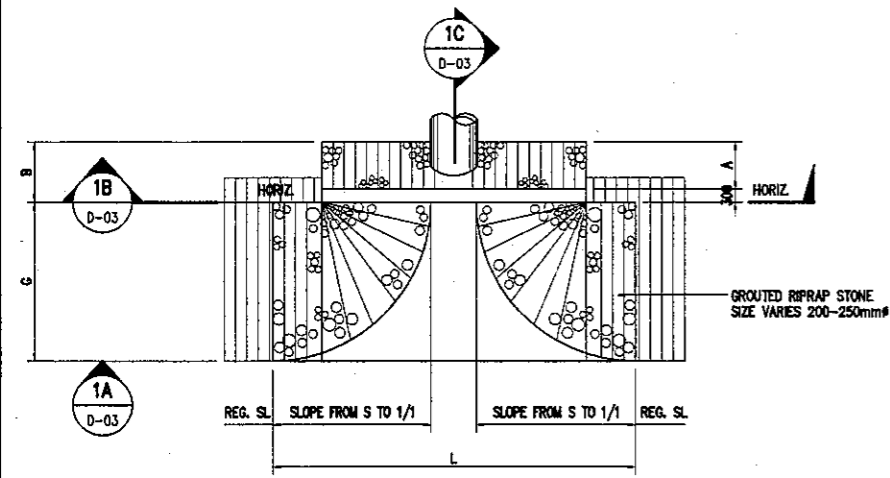
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COOPERATION AGENCY
Japan

THE FEASIBILITY STUDY OF
THE PROPOSED CAVITE
BUSWAY SYSTEM

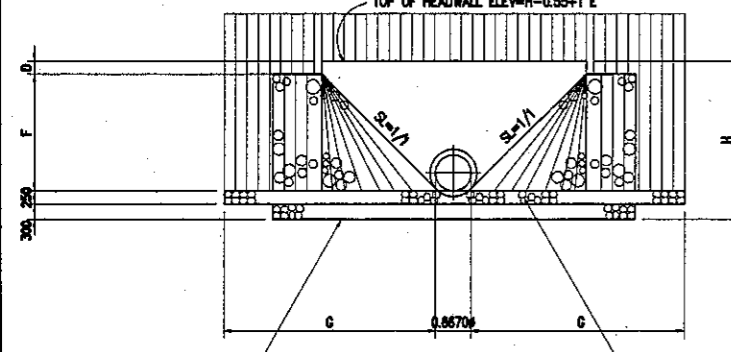
SHEET CONTENTS
LONGITUDINAL SECTIONS
STANDARD CLASS II AND CLASS IV RCP
METHOD OF PIPE INSTALLATION
DETAIL OF PIPE JOINTS

SCALE
N T S

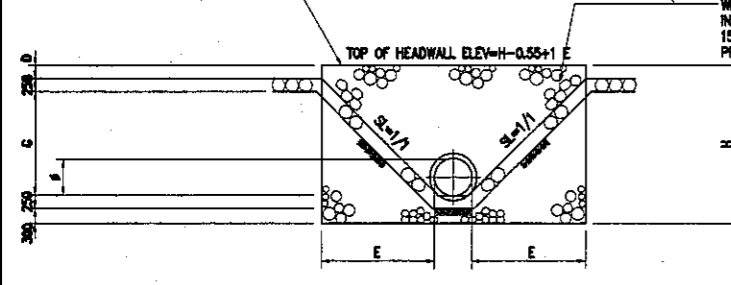
Drawing Number
D-02



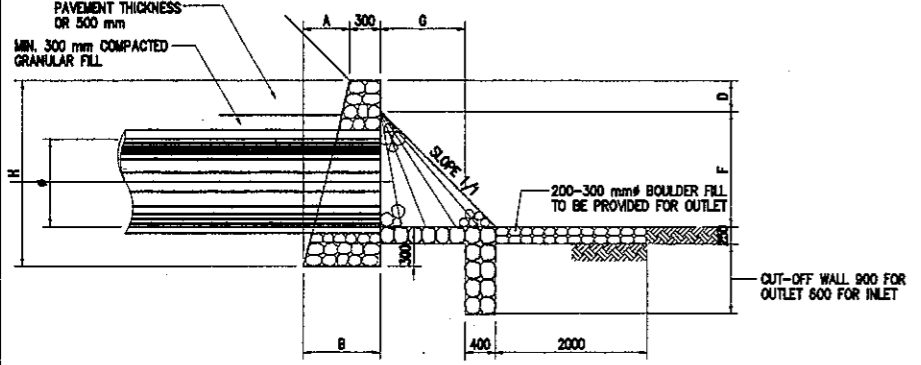
1 PLAN $\alpha=90^\circ$
D-03 SCALE NTS



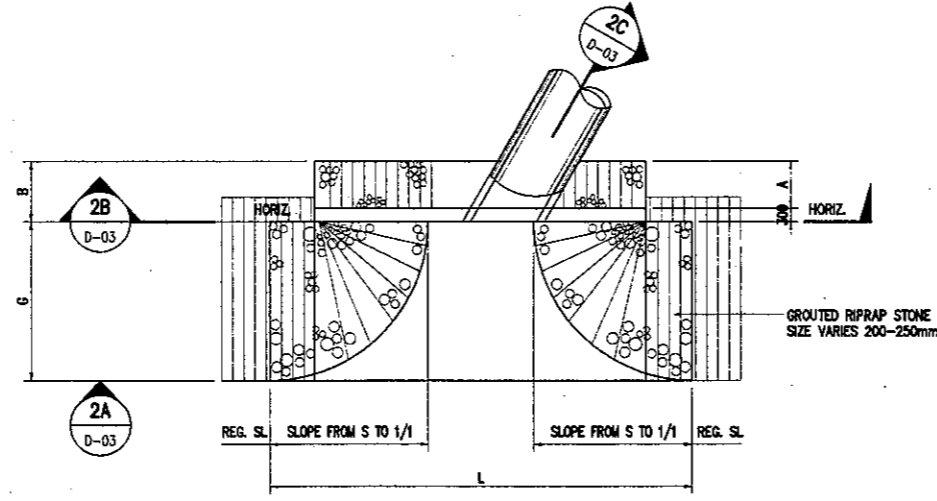
1A ELEVATION
D-03 SCALE NTS



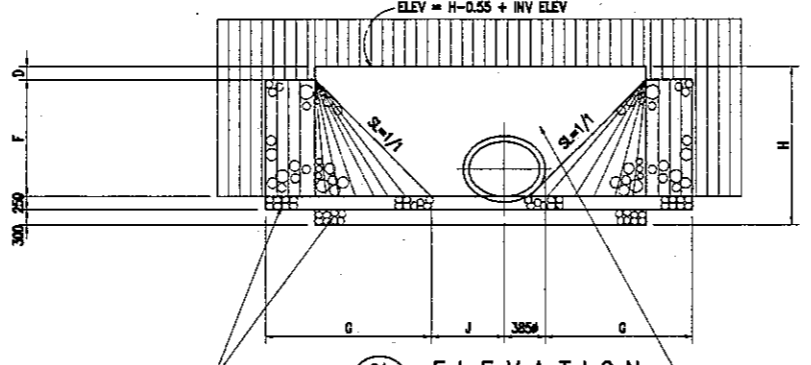
1B SECTION
D-03 SCALE NTS



1C SECTION
D-03 SCALE NTS



2 PLAN $\alpha=60^\circ$
D-03 SCALE NTS

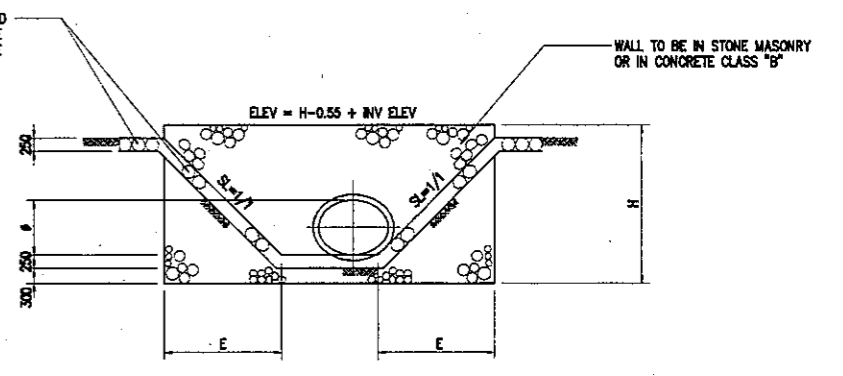


2A ELEVATION
D-03 SCALE NTS

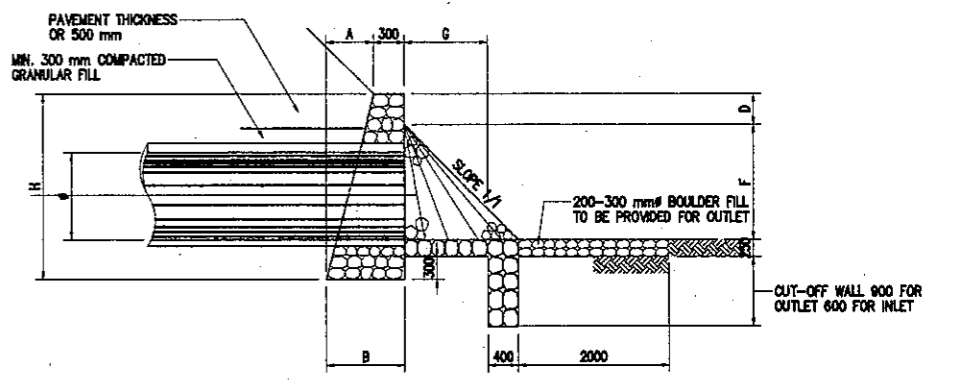
WHEN THE WATERWAY IS CONSTRUCTED IN CONCRETE ITS THICKNESS IS TO BE 150mm AND A BED COURSE IS TO BE PROVIDED WITH THICKNESS 100mm

WALL TO BE IN STONE MASONRY OR IN CONCRETE CLASS "B"

WHEN THE WATERWAY IS CONSTRUCTED IN CONCRETE ITS THICKNESS IS TO BE 150mm AND A BED COURSE IS TO BE PROVIDED WITH THICKNESS 100mm



1B SECTION
D-03 SCALE NTS



2C SECTION
D-03 SCALE NTS

| TYPE A ₁ INLET OR OUTLET FRONTWALL $\alpha = 90^\circ$ DIMENSION IN MILLIMETERS | | | | |
|--|------|-------|-------|-------|
| PIPE DIAMETER (mm) | 910 | 1070 | 1220 | 1520 |
| H | 2360 | 2520 | 2670 | 2970 |
| A | 780 | 830 | 880 | 980 |
| B | 1080 | 1130 | 1180 | 1280 |
| 0.670 # | 610 | 710 | 810 | 1010 |
| SLOPE 3/2 | C | 3830 | 4250 | 4650 |
| | D | 200 | 200 | 200 |
| | E | 1610 | 1770 | 1920 |
| | F | 1610 | 1770 | 1920 |
| | G | 2415 | 2685 | 2880 |
| | L | 5440 | 6020 | 6570 |
| SLOPE 2/1 | C | 3930 | 4350 | 4750 |
| | D | 150 | 150 | 150 |
| | E | 1660 | 1820 | 1970 |
| | F | 1660 | 1820 | 1970 |
| | G | 3320 | 3640 | 3940 |
| | L | 7250 | 7980 | 8680 |
| SLOPE 4/1 | C | 4080 | 4500 | 4900 |
| | D | 75 | 75 | 75 |
| | E | 1735 | 1895 | 2045 |
| | F | 1735 | 1895 | 2045 |
| | G | 6940 | 7580 | 8180 |
| | L | 14480 | 15870 | 17170 |

| TYPE A ₁ INLET OR OUTLET FRONTWALL $\alpha = 60^\circ$ DIMENSION IN MILLIMETERS | | | | |
|--|------|-------|-------|-------|
| PIPE DIAMETER (mm) | 910 | 1070 | 1220 | 1520 |
| 1.1547 # | 1080 | 1240 | 1310 | 1250 |
| H | 2360 | 2520 | 2670 | 2970 |
| A | 780 | 830 | 880 | 980 |
| B | 1080 | 1130 | 1180 | 1280 |
| 0.385 # | 350 | 410 | 470 | 590 |
| SLOPE 3/2 | J | 1010 | 1140 | 1280 |
| | C | 4580 | 5090 | 5570 |
| | D | 200 | 200 | 200 |
| | E/F | 1610 | 1770 | 1920 |
| | G | 2415 | 2655 | 2880 |
| | L | 6190 | 6860 | 7490 |
| SLOPE 2/1 | J | 1150 | 1290 | 1430 |
| | C | 4820 | 5340 | 5840 |
| | D | 150 | 150 | 150 |
| | E/F | 1680 | 1820 | 1970 |
| | G | 3320 | 3640 | 3940 |
| | L | 8140 | 8980 | 9780 |
| SLOPE 4/1 | J | 1710 | 1900 | 2080 |
| | C | 5330 | 6100 | 6640 |
| | D | 75 | 75 | 75 |
| | E/F | 1735 | 1895 | 2045 |
| | G | 8940 | 9780 | 10580 |
| | L | 15940 | 17470 | 18910 |

| TYPE A ₁ INLET OR OUTLET FRONTWALL $\alpha = 45^\circ$ DIMENSION IN MILLIMETERS | | | | |
|--|------|-------|-------|-------|
| PIPE DIAMETER (mm) | 910 | 1070 | 1220 | 1520 |
| 1.4142 # | 1290 | 1510 | 1730 | 2150 |
| H | 2360 | 2520 | 2670 | 2970 |
| A | 780 | 830 | 880 | 980 |
| B | 1080 | 1130 | 1180 | 1280 |
| 0.4713 # | 430 | 500 | 570 | 720 |
| SLOPE 3/2 | J | 1780 | 2000 | 2200 |
| | C | 5430 | 6040 | 6620 |
| | D | 200 | 200 | 200 |
| | E/F | 1610 | 1770 | 1920 |
| | G | 2415 | 2655 | 2880 |
| | L | 7040 | 7810 | 8540 |
| SLOPE 2/1 | J | 2160 | 2400 | 2640 |
| | C | 5810 | 6540 | 7180 |
| | D | 150 | 150 | 150 |
| | E/F | 1680 | 1820 | 1970 |
| | G | 3320 | 3640 | 3940 |
| | L | 9230 | 10180 | 11100 |
| SLOPE 4/1 | J | 3680 | 4040 | 4380 |
| | C | 7580 | 8330 | 9080 |
| | D | 75 | 75 | 75 |
| | E/F | 1735 | 1895 | 2045 |
| | G | 8940 | 9780 | 10580 |
| | L | 17970 | 19700 | 21320 |

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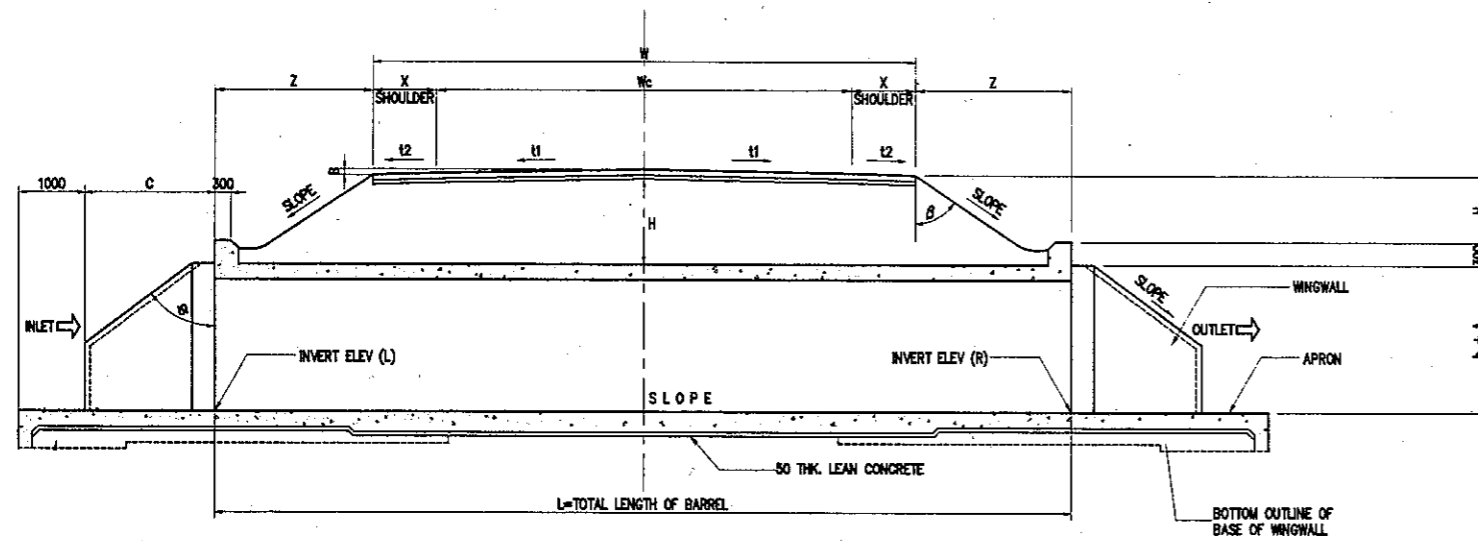
JAPAN INTERNATIONAL
COOPERATION AGENCY
Japan

**THE FEASIBILITY STUDY OF
THE PROPOSED CAVITE
BUSWAY SYSTEM**

SHEET CONTENTS
HEADWALL DETAIL FOR SINGLE PIPE CULVERTS
TYPE A₁ ($\alpha=90^\circ, 60^\circ$ AND 45°)

SCALE
N T S

Drawing Number
D-03

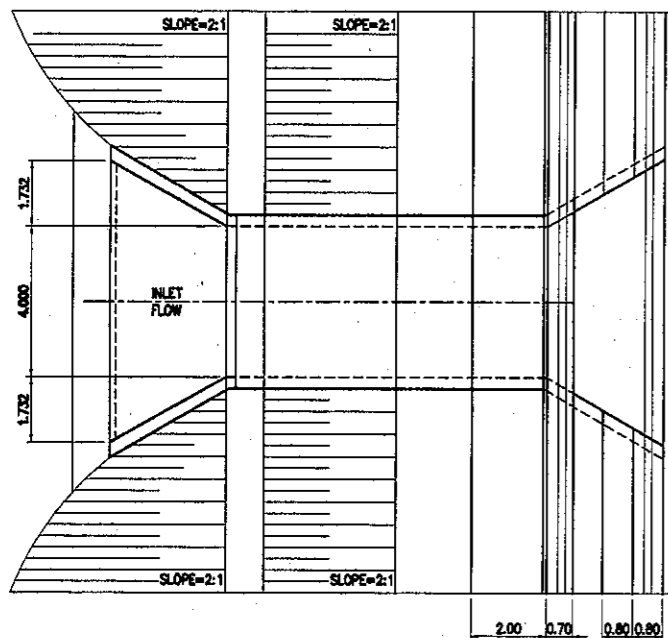


1 TYPICAL CULVERT CROSS SECTION
D-04 SCALE 1:50

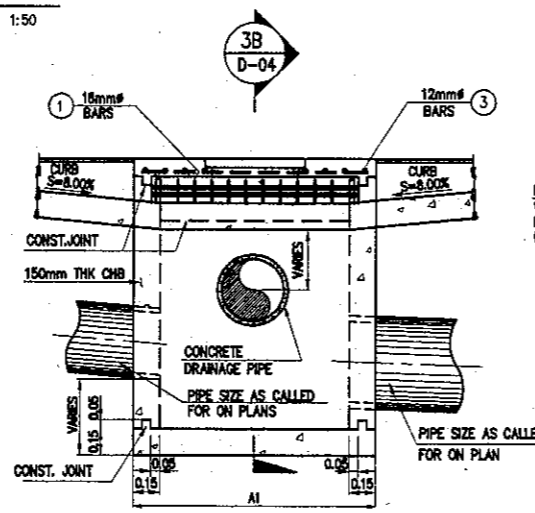
| HORIZONTAL SKEW ANGLE C | L (mm) | W+2z |
|-------------------------|--------|---------------|
| 90° | | W+2z |
| 60° | | 1.1547 (w+2z) |
| 45° | | 1.4142 (W+2z) |

LEGEND :

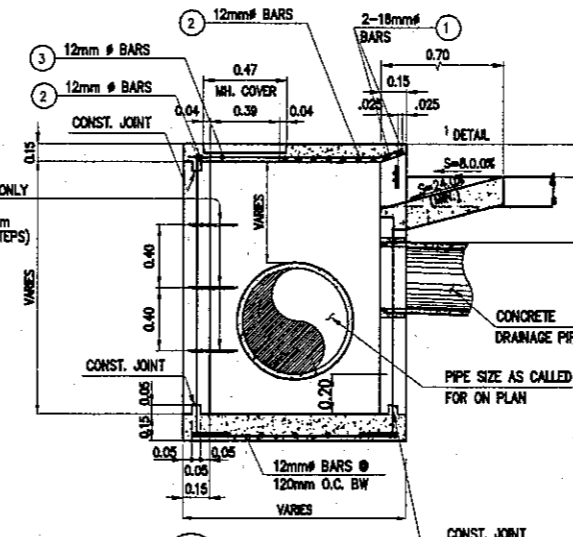
- W - WIDTH OF ROADWAY FORMATION
- X - WIDTH OF SHOULDER
- Wc - WIDTH OF CARRIAGE WAY
- H - COVER ABOVE THE CULVERT
- L - TOTAL LENGTH OF BARREL
- t1 - SLOPE OF CARRIAGE WAY
- t2 - SLOPE OF SHOULDER
- Z - (H-B-200)tanβ + 300
- B - 0.5Wc t1 + X t2
- h - HEIGHT OF CULVERT OPENING
- t - THICKNESS OF CULVERT WALL OR SLAB
- β - ANGLE OF INCLINATION OF EMBANKMENT
- C - ANGLE OF SKEW



2 PLAN - 4.00 X 2.50m BOX CULVERT
D-04 SCALE 1:100



3A ELEVATION
D-04 SCALE NTS



3B SECTION
D-04 SCALE 1:20

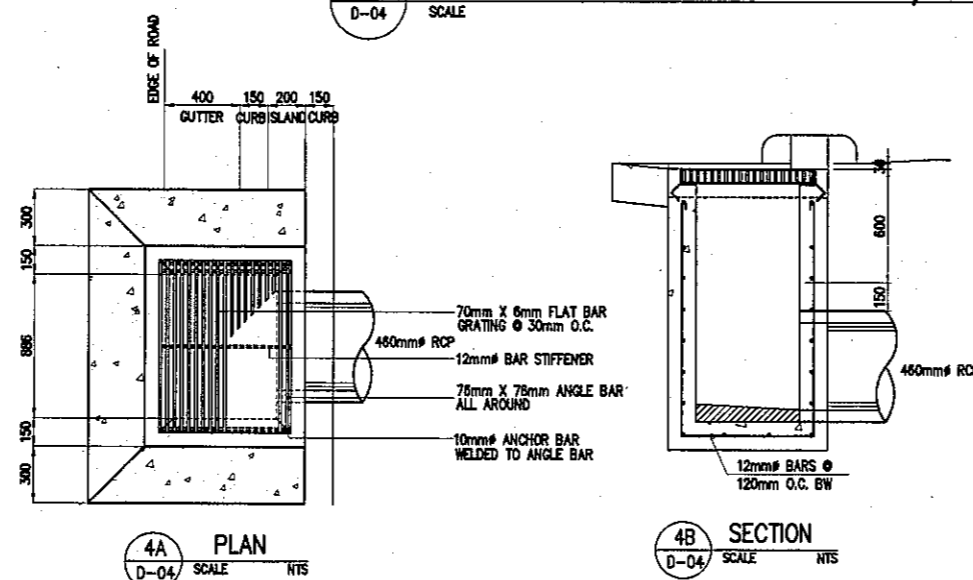
3 DETAIL COMBINATION CURB INLET / MANHOLE
D-04 SCALE AS SHOWN

| REBAR SCHEDULE | | | | | | |
|---------------------------------|-------------------|---------|-------------|--------------|-------------|--------------|
| REINFORCING BARS FOR CURB INLET | | | | | | |
| BAR LIST | | | | | | |
| TYPE OF PIPE | SIZE OF PIPE (mm) | A1 (mm) | NO. OF BARS | SPACING (mm) | NO. OF BARS | SPACING (mm) |
| T-1 | 460 | 1190 | 2 | 1090 | 6 | 1270 |
| T-2 | 610 | 1370 | 2 | 1270 | 8 | 1270 |
| T-3 | 760 | 1540 | 2 | 1270 | 10 | 1270 |
| T-4 | 910 | 1730 | 2 | 1270 | 11 | 1270 |

| DEPTH "D" | TYPE OF CONSTRUCTION | REINFORCEMENT |
|------------------|----------------------|--|
| 1.20 - SHALLOWER | CHB (t=8") | 12mm# HOR. BARS @ EVERY 3rd COURSE 12mm# @ 450 O.C. |
| 1.21 - 2.00 | REINF. CONCRETE | 12mm# @ 450 O.C. V.B. 12mm# @ 300 O.C. H.B. |
| 2.001 - DEEPER | REINF. CONCRETE | 12mm# @ 225mm O.C. B.W. |

GENERAL NOTES:

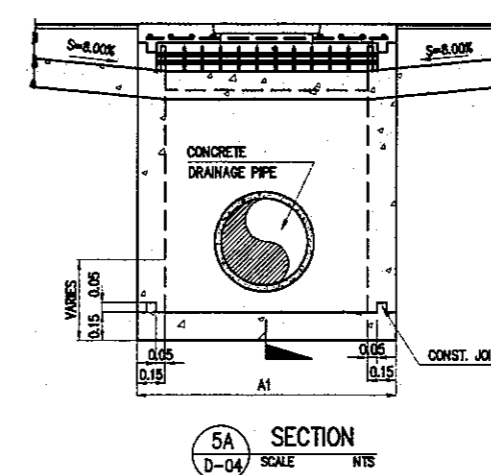
1. MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGES, REVISED 1988.
2. ALL DIMENSIONS ARE IN METERS (m) UNLESS INDICATED OTHERWISE.
3. ALL CONCRETE SHALL BE CLASS "A" MIX. ALL EXPOSED SURFACES SHALL BE TROWEL FINISHED WITHOUT MORTAR COAT AND ALL EDGES ARE TO BE FINISHED WITH SUITABLE EDGER.
4. REINFORCING SHALL BE OF INTERMEDIATE GRADE. STEEL STEPS SHALL BE GRAY IRON OR STEEL.
5. INSIDE SURFACES AND EXPOSED OUTSIDE SURFACES OF ALL MASONRY SHALL HAVE A PLASTER COAT 13mm THICK.
6. POSITIONS, SIZES AND NUMBER OF SEWER AND STORMDRAIN CONDUITS ENTERING MANHOLE SHALL BE AS INDICATED IN THE GENERAL PLANS OR AS DETERMINED BY THE ENGINEER TO SUIT FIELD CONDITIONS.
7. REINFORCED CONCRETE TYPE OF MANHOLE COVER SHALL BE USED ONLY IN CASES WHERE MANHOLE IS LOCATED WITHIN THE RIDING SURFACES.
8. WHEN HEIGHT OF STRUCTURE EXCEEDS 1220mm (4'-0") STAGGERED STEPS AT 400mm INTERVAL SHALL BE PROVIDED.
9. MANHOLES SHALL NOT BE CONSTRUCTED WITHIN THE RIDING SURFACE.



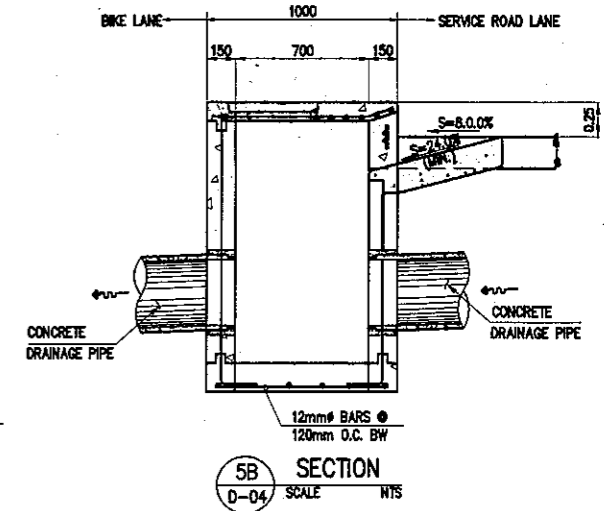
4A PLAN
D-04 SCALE NTS

4B SECTION
D-04 SCALE NTS

4 CURB INLET (CI-1) DETAIL
D-04 SCALE NTS

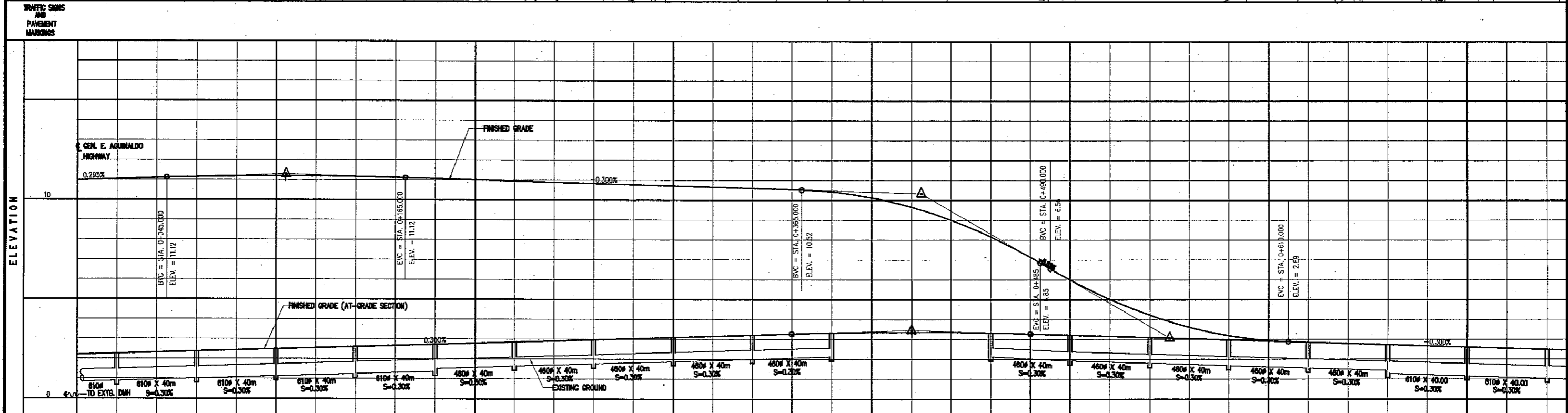
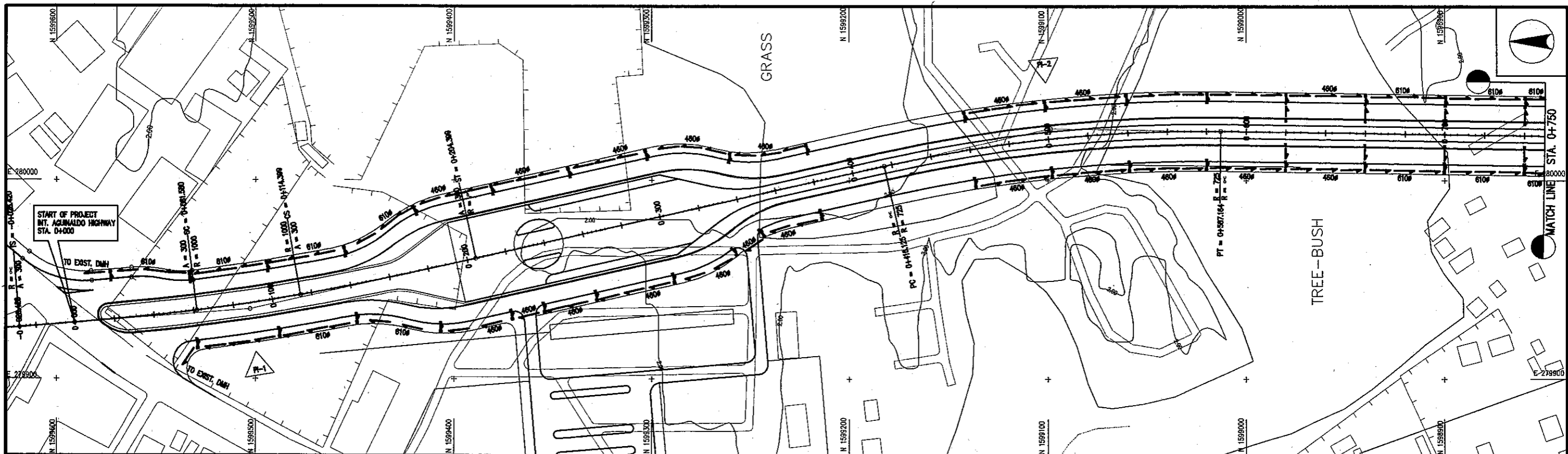


5A SECTION
D-04 SCALE NTS



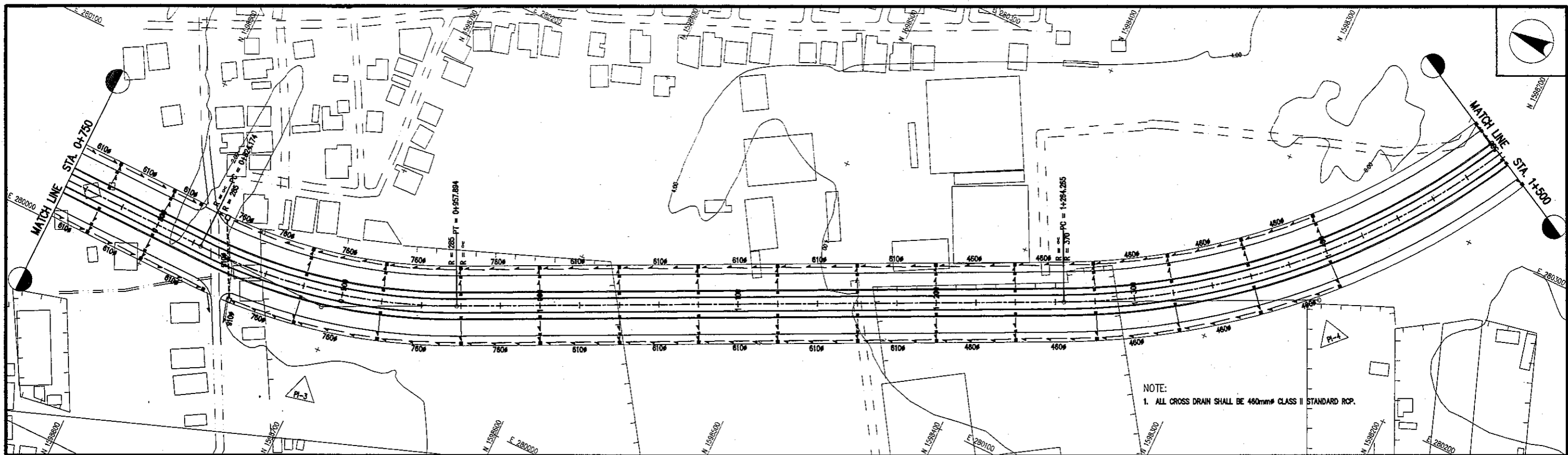
5B SECTION
D-04 SCALE NTS

5 CURB INLET (CI-2) DETAIL
D-04 SCALE NTS

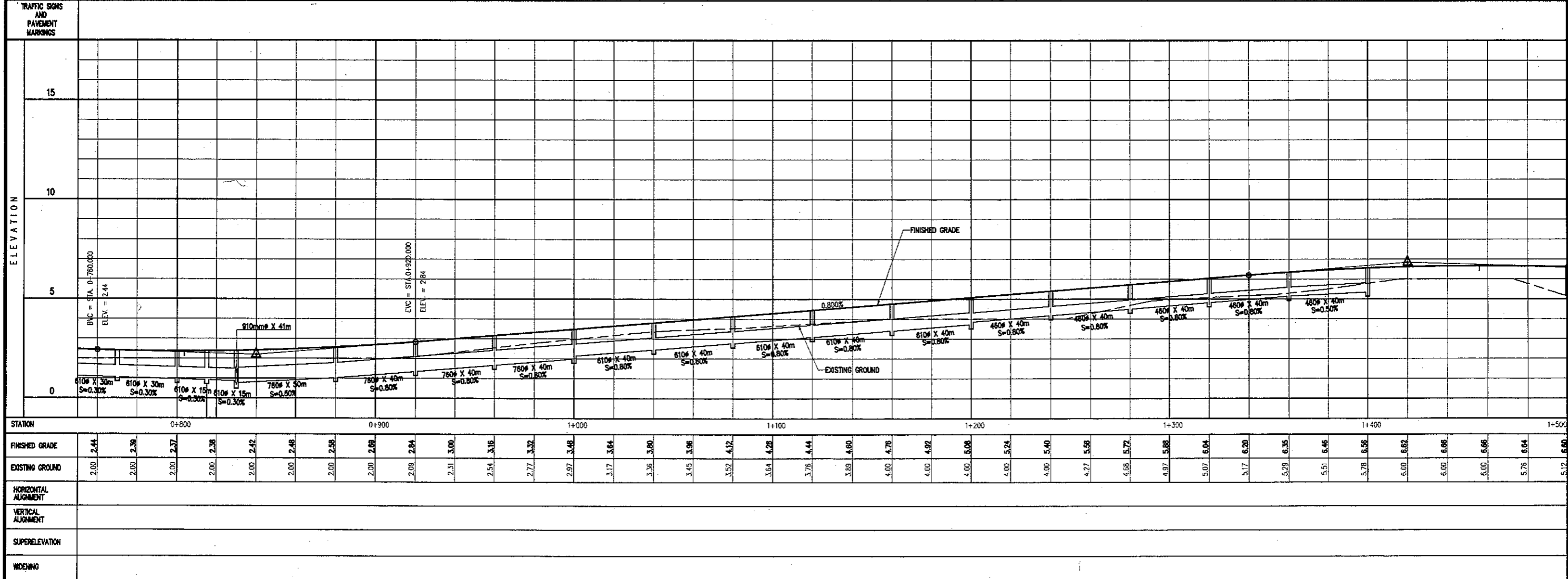


| STATION | 0+200 | 0+300 | 0+400 | 0+500 | 0+600 | 0+700 |
|----------------------|-------|-------|-------|-------|-------|-------|
| FINISHED GRADE | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 |
| EXISTING GROUND | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 |
| HORIZONTAL ALIGNMENT | | | | | | |
| VERTICAL ALIGNMENT | | | | | | |
| SUPERELEVATION | | | | | | |
| WEAVING | | | | | | |

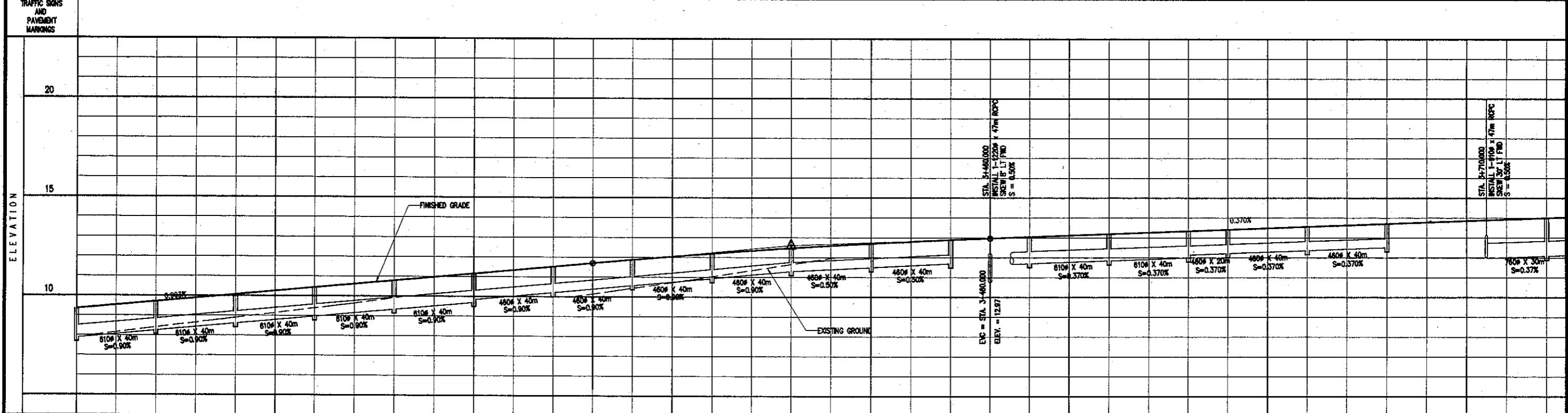
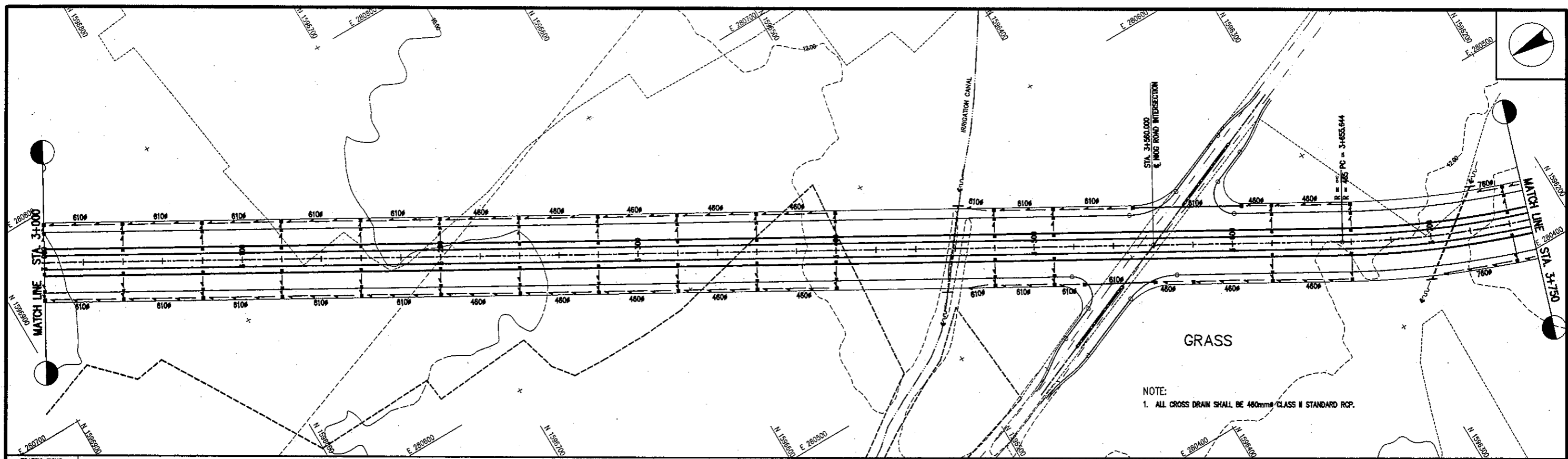
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|---------------------------------------|---|---|--|---|---|--|-------------------------------|
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|---------------------------------------|---|---|--|---|---|--|-------------------------------|



NOTE:
1. ALL CROSS DRAIN SHALL BE 460mm CLASS II STANDARD RCP.

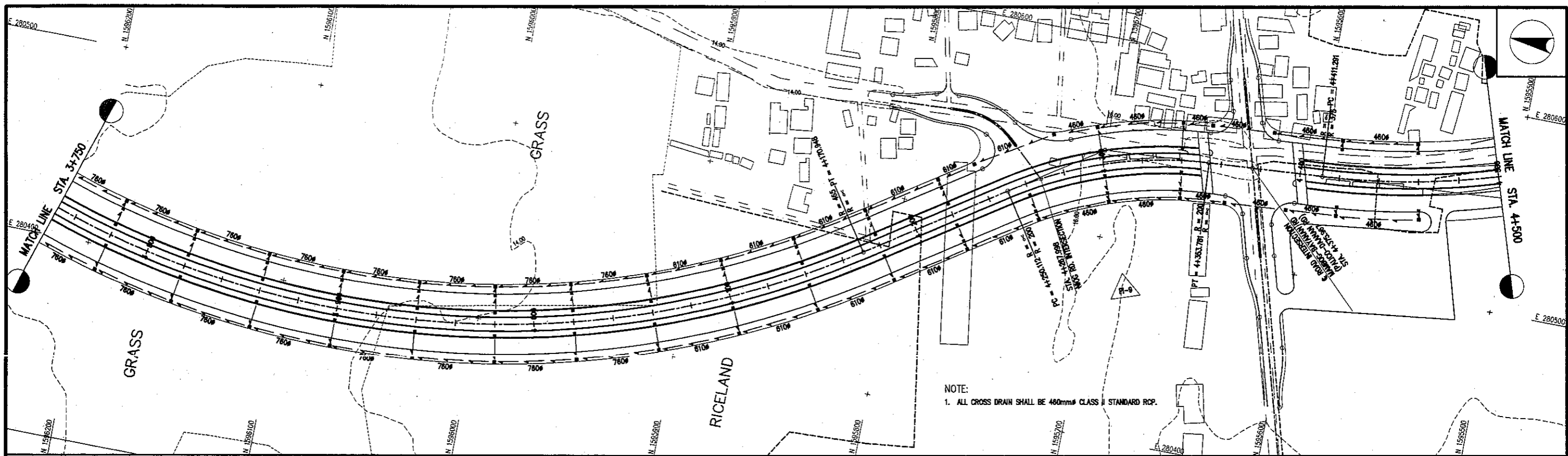


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|-----------------------|---------------------------------------|--|---|---|--|----------------------------|----------------|
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| | | | | | PLAN AND PROFILE STA. 0+750 TO STA. 1+500 | 1:2000 HOR. 1:200 VERT. | D-06 |

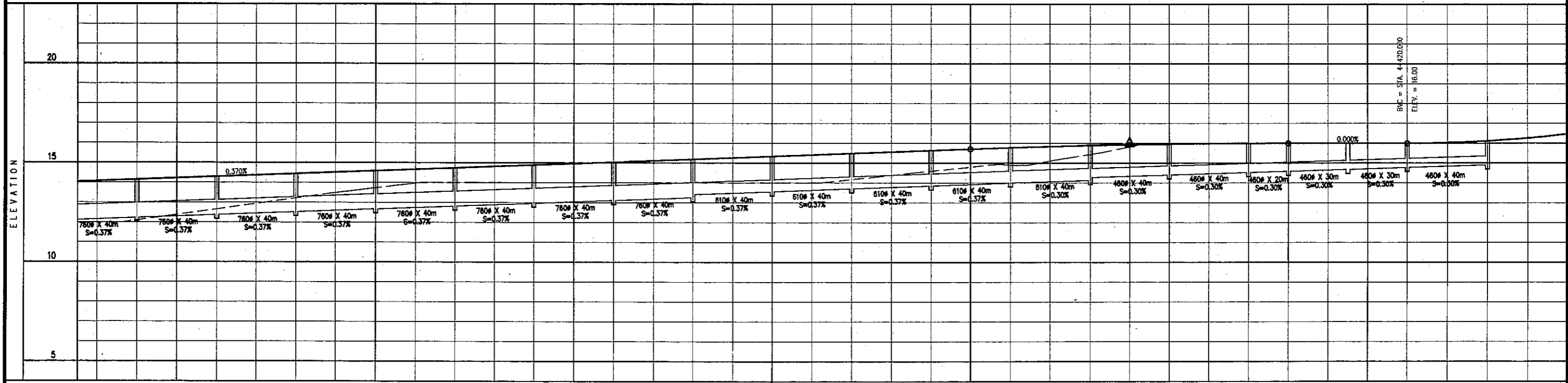


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|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| STATION | 3+000 | 3+100 | 3+200 | 3+300 | 3+400 | 3+500 | 3+600 | 3+700 | 3+750 | | | | | | | | | | | | | | | | | | | | |
| FINISHED GRADE | 9.35 | 9.53 | 9.71 | 9.89 | 10.07 | 10.25 | 10.43 | 10.61 | 10.79 | 10.97 | 11.15 | 11.34 | 11.52 | 11.70 | 11.87 | 12.04 | 12.23 | 12.41 | 12.59 | 12.77 | 12.95 | 13.12 | 13.30 | 13.48 | 13.66 | 13.84 | 14.02 | | |
| EXISTING GROUND | 8.00 | 8.16 | 8.41 | 8.65 | 8.90 | 9.14 | 9.39 | 9.64 | 9.92 | 10.00 | 10.00 | 10.00 | 10.00 | 10.14 | 10.43 | 10.73 | 11.03 | 11.34 | 11.64 | 11.95 | 12.00 | 12.00 | 12.00 | 12.00 | 12.00 | 12.00 | 12.00 | 12.00 | 12.00 |
| HORIZONTAL ALIGNMENT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VERTICAL ALIGNMENT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SUPERELEVATION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WIDENING | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | |
|-----------------------------------|---------------------------------------|--|---|---|---|--|-------------------------------|
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|-----------------------------------|---------------------------------------|--|---|---|---|--|-------------------------------|

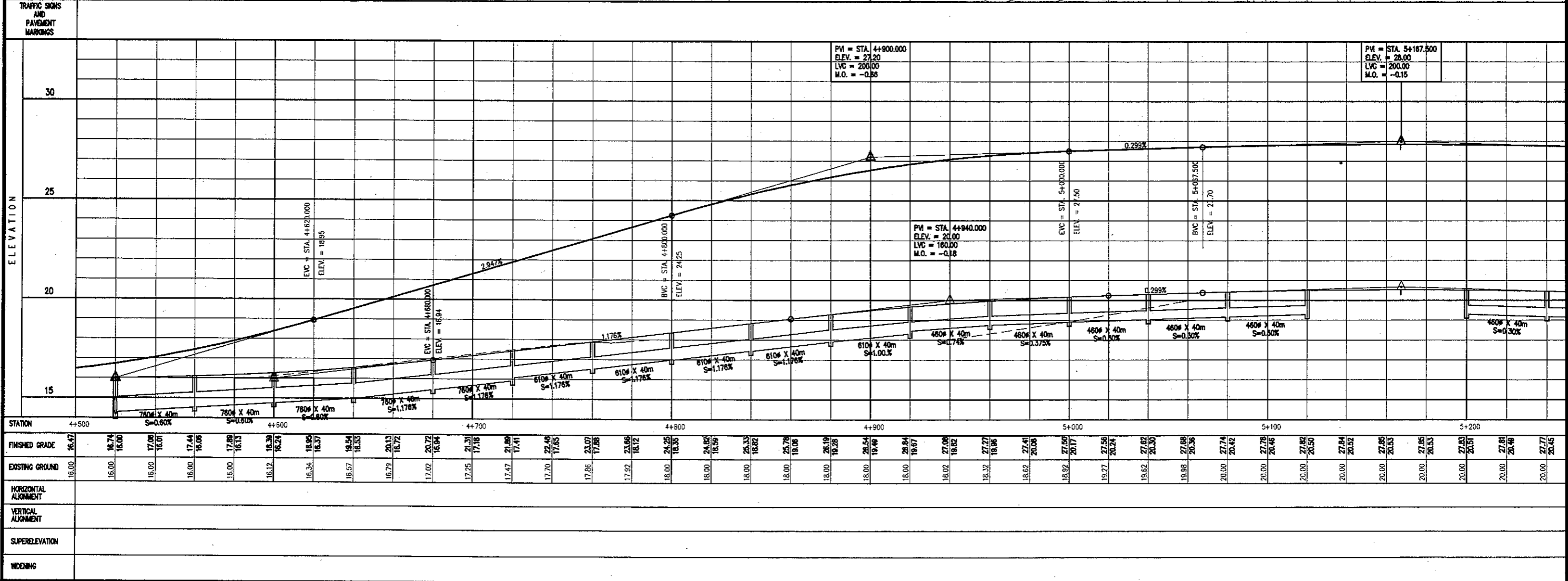
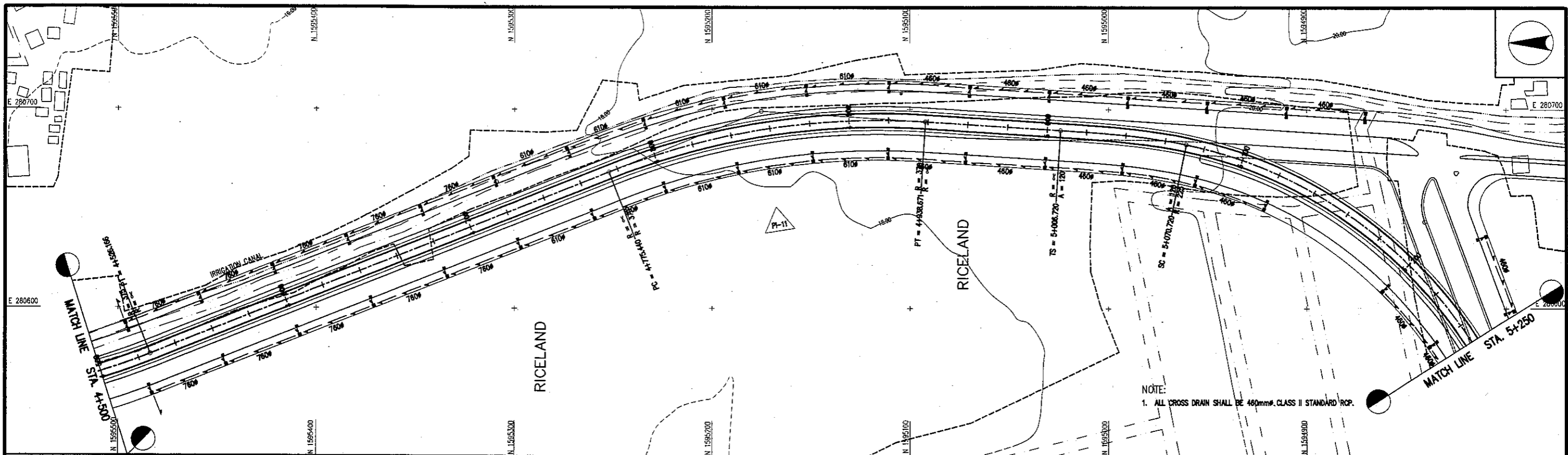


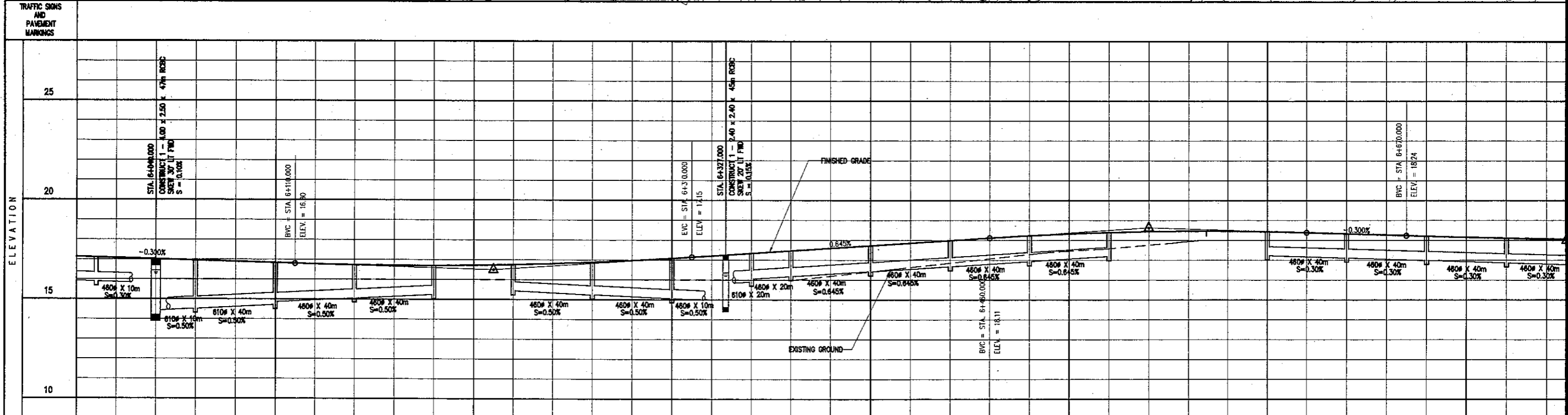
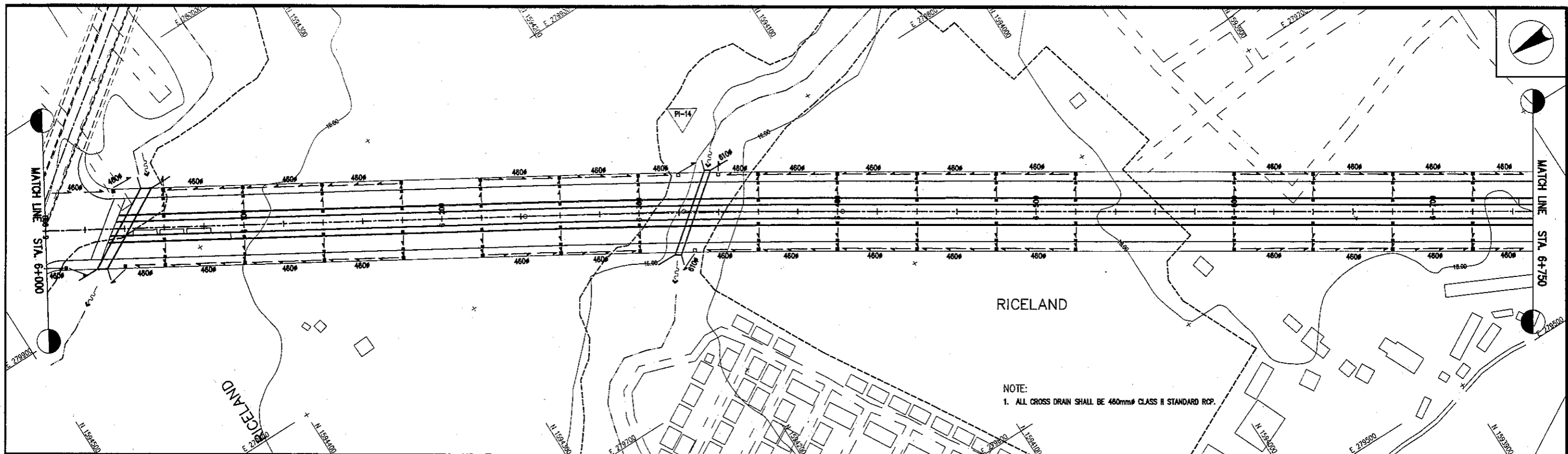
TRAFFIC SIGNS AND PAYMENT MARKINGS



| STATION | 3+800 | 3+900 | 4+000 | 4+100 | 4+200 | 4+300 | 4+400 | 4+500 |
|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| FINISHED GRADE | 14.00 | 14.15 | 14.23 | 14.30 | 14.37 | 14.45 | 14.52 | 14.60 |
| EXISTING GROUND | 12.00 | 12.10 | 12.35 | 12.65 | 12.94 | 13.22 | 13.49 | 13.73 |
| HORIZONTAL ALIGNMENT | | | | | | | | |
| VERTICAL ALIGNMENT | | | | | | | | |
| SUPERELEVATION | | | | | | | | |
| WIDENING | | | | | | | | |

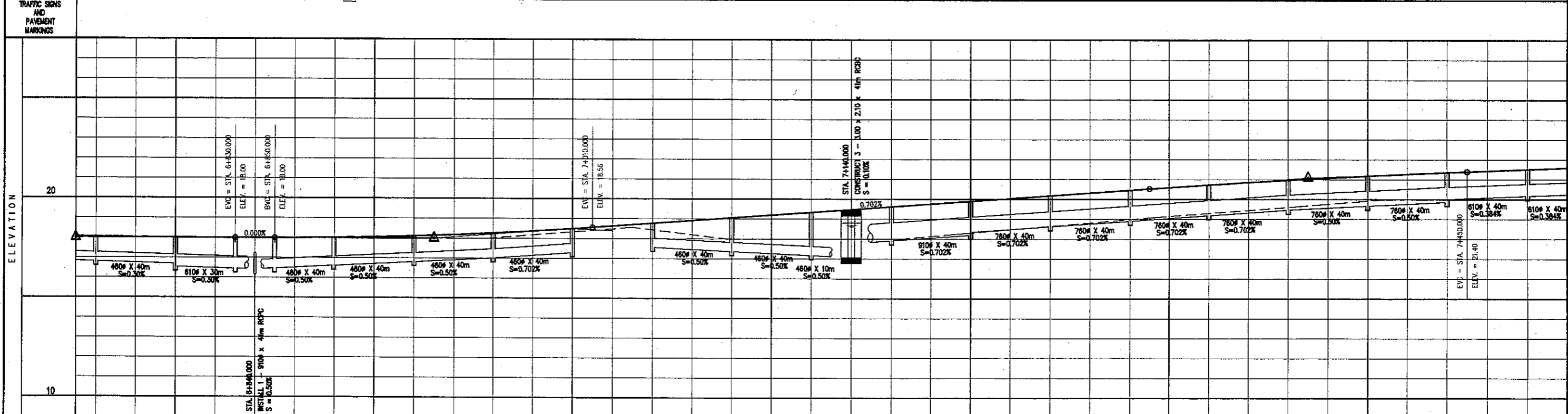
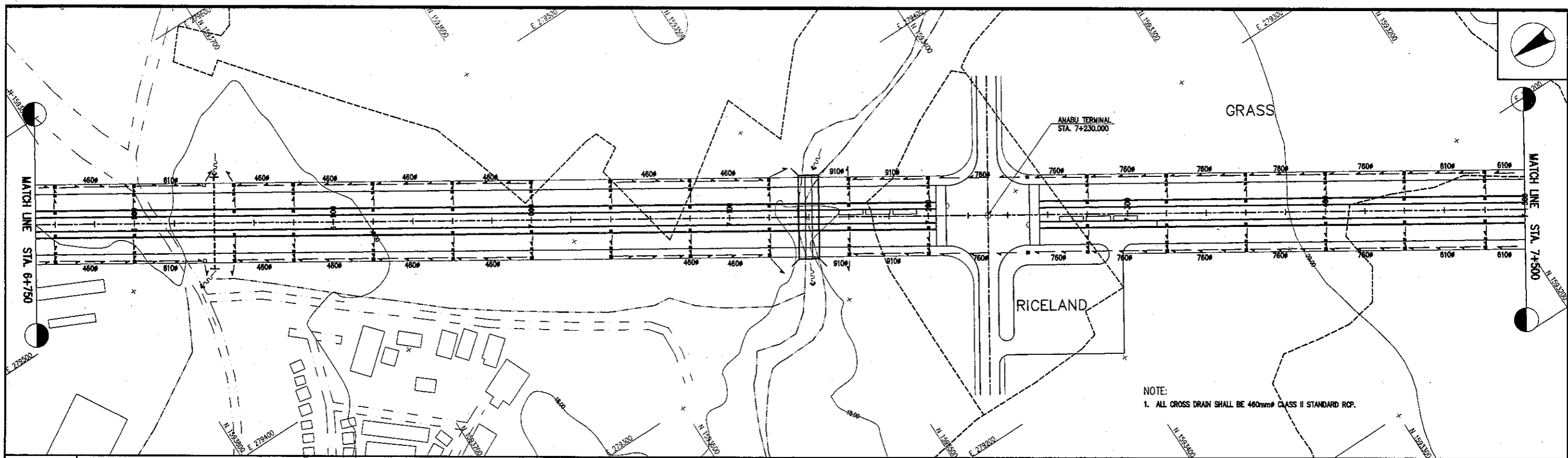
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|---|---|---|--|--|---|--|--------------------------------|
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|---|---|---|--|--|---|--|--------------------------------|





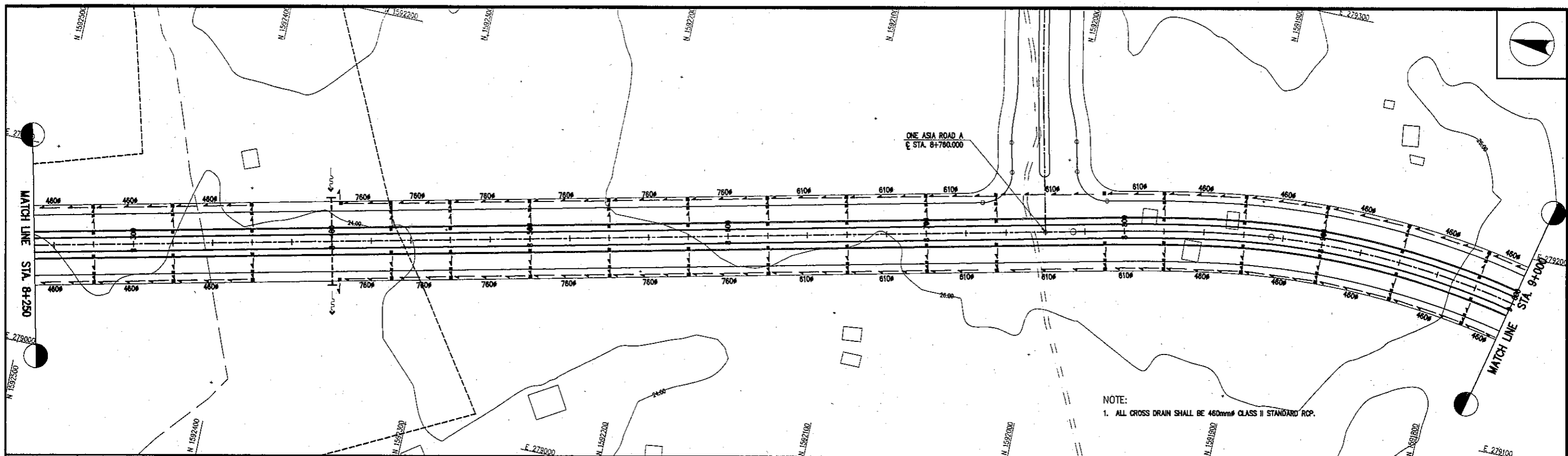
| STATION | 6+000 | 6+100 | 6+200 | 6+300 | 6+400 | 6+500 | 6+600 | 6+700 |
|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| FINISHED GRADE | 17.13 | 17.07 | 17.01 | 16.95 | 16.89 | 16.83 | 16.77 | 16.71 |
| EXISTING GROUND | 16.00 | 16.00 | 16.00 | 16.00 | 16.00 | 16.00 | 16.00 | 16.00 |
| HORIZONTAL ALIGNMENT | | | | | | | | |
| VERTICAL ALIGNMENT | | | | | | | | |
| SUPERELEVATION | | | | | | | | |
| WIDENING | | | | | | | | |

| | | | | | | | |
|-----------------------------------|---------------------------------------|--|---|---|---|--|-------------------------------|
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| | | | | | | | |



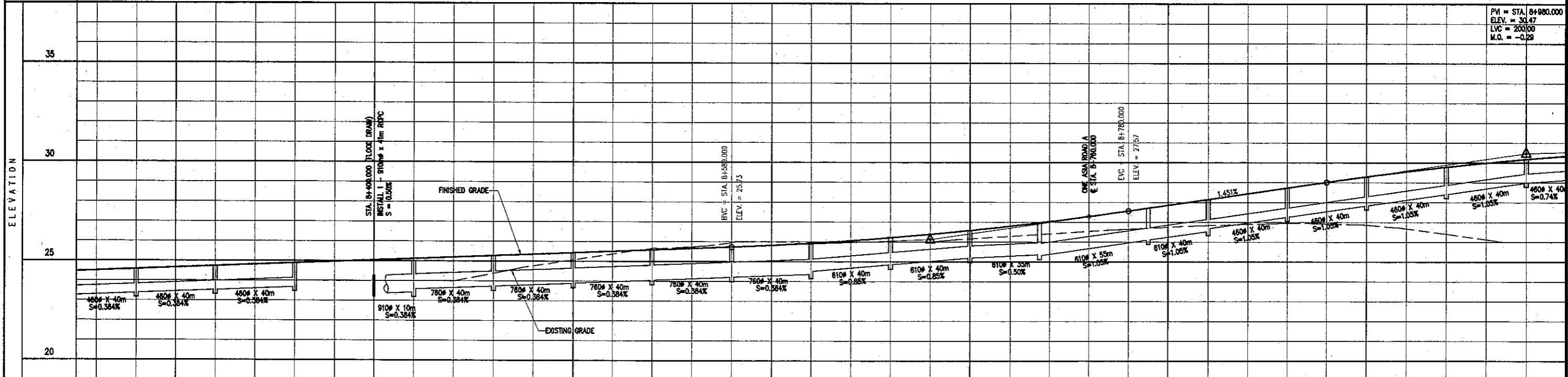
| STATION | 6+800 | 6+900 | 7+000 | 7+100 | 7+200 | 7+300 | 7+400 | 7+500 |
|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| FINISHED GRADE | 18.05 | 18.02 | 18.01 | 18.00 | 18.00 | 18.02 | 18.05 | 18.11 |
| EXISTING GROUND | 18.00 | 18.00 | 18.00 | 18.00 | 18.00 | 18.02 | 18.05 | 18.11 |
| HORIZONTAL ALIGNMENT | | | | | | | | |
| VERTICAL ALIGNMENT | | | | | | | | |
| SUPERELEVATION | | | | | | | | |
| WEAVING | | | | | | | | |

| | | | | | | | |
|---|--|--|---|--|--|---|---------------------------------------|
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|---|--|--|---|--|--|---|---------------------------------------|

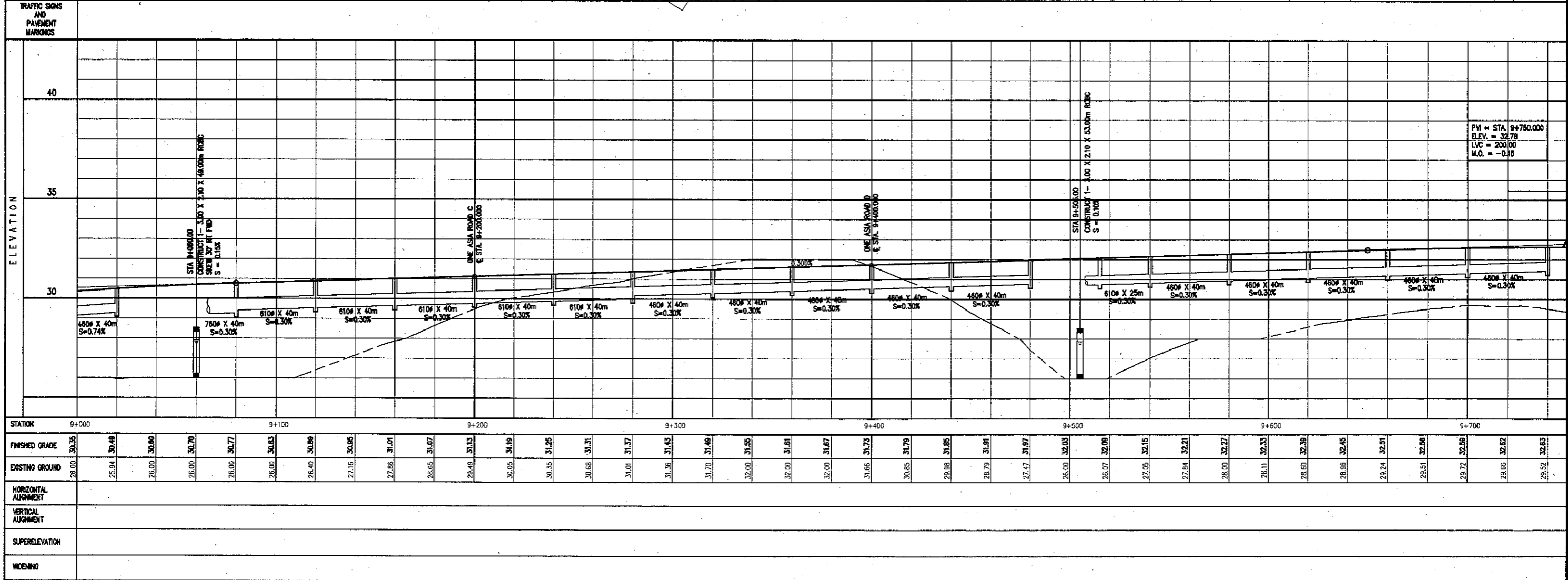
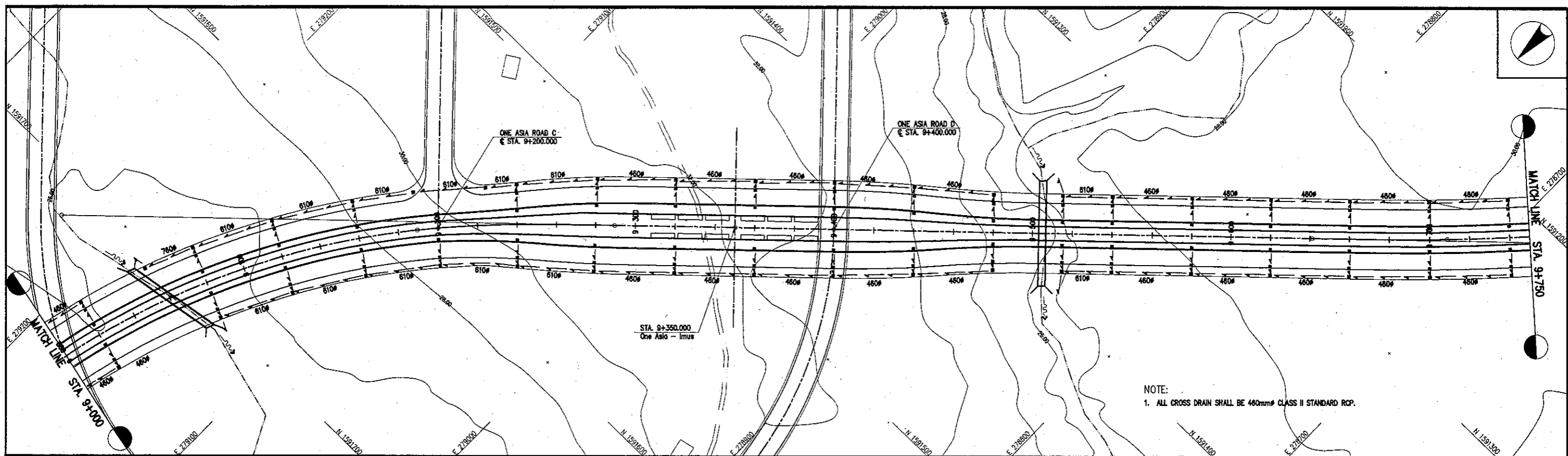


NOTE:
1. ALL CROSS DRAIN SHALL BE 460mm# CLASS II STANDARD RCP.

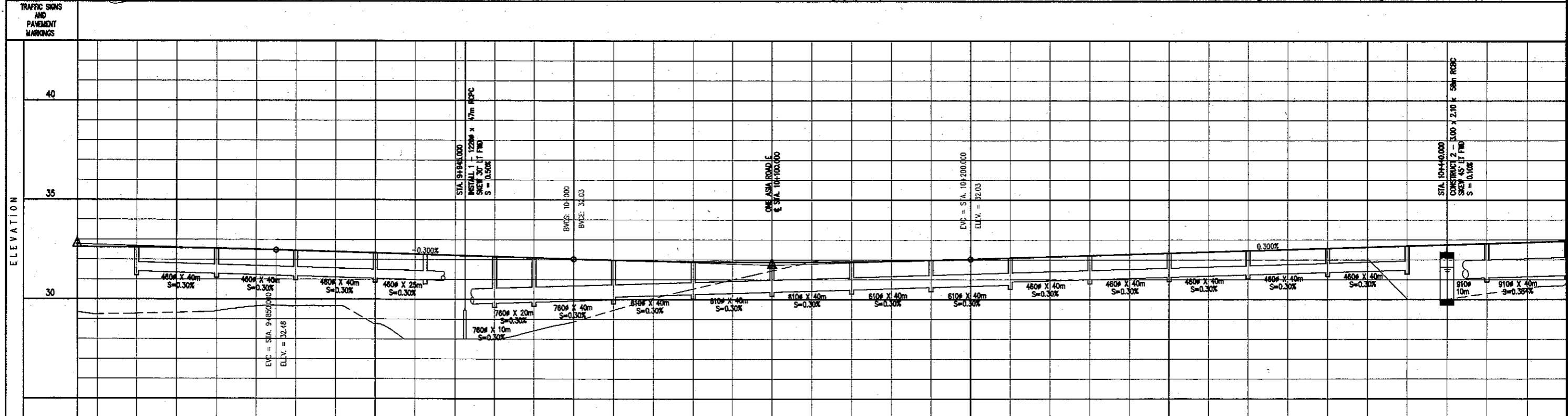
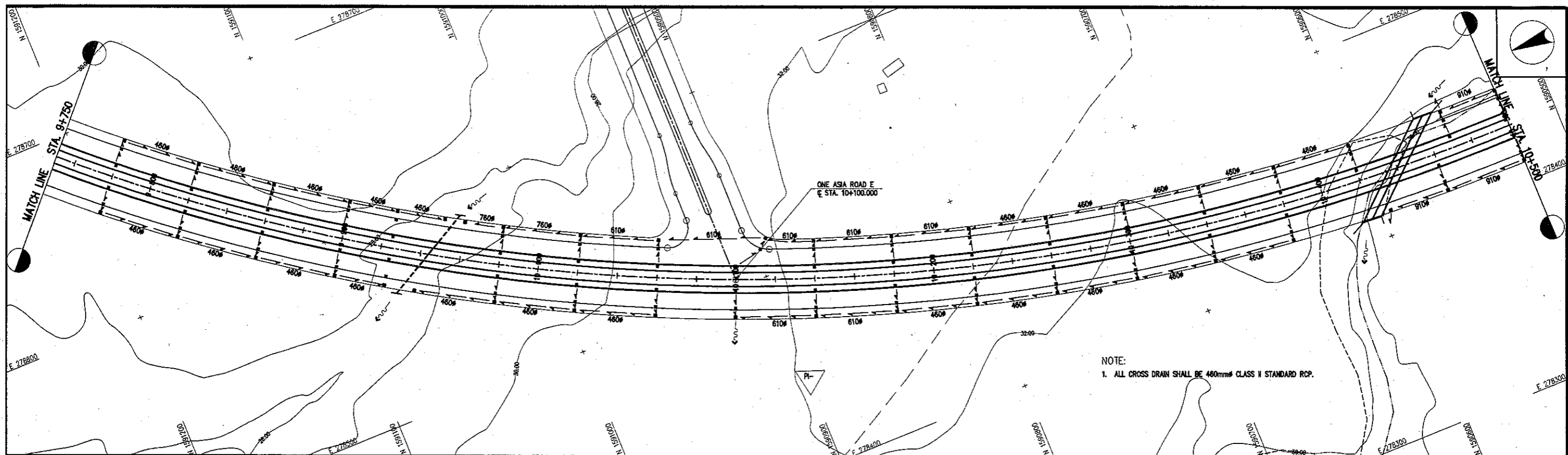
TRAFFIC SIGNS AND PAVEMENT MARKINGS



| STATION | 8+300 | 8+310 | 8+320 | 8+330 | 8+340 | 8+350 | 8+360 | 8+370 | 8+380 | 8+390 | 8+400 | 8+410 | 8+420 | 8+430 | 8+440 | 8+450 | 8+460 | 8+470 | 8+480 | 8+490 | 8+500 | 8+510 | 8+520 | 8+530 | 8+540 | 8+550 | 8+560 | 8+570 | 8+580 | 8+590 | 8+600 | 8+610 | 8+620 | 8+630 | 8+640 | 8+650 | 8+660 | 8+670 | 8+680 | 8+690 | 8+700 | 8+710 | 8+720 | 8+730 | 8+740 | 8+750 | 8+760 | 8+770 | 8+780 | 8+790 | 8+800 | 8+810 | 8+820 | 8+830 | 8+840 | 8+850 | 8+860 | 8+870 | 8+880 | 8+890 | 8+900 | 8+910 | 8+920 | 8+930 | 8+940 | 8+950 | 8+960 | 8+970 | 8+980 | 8+990 | 9+000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----|
| FINISHED GRADE | 24.51 | 24.56 | 24.68 | 24.74 | 24.81 | 24.89 | 24.97 | 25.04 | 25.12 | 25.20 | 25.27 | 25.35 | 25.43 | 25.50 | 25.58 | 25.66 | 25.74 | 25.82 | 25.90 | 25.98 | 26.06 | 26.14 | 26.22 | 26.30 | 26.38 | 26.46 | 26.54 | 26.62 | 26.70 | 26.78 | 26.86 | 26.94 | 27.02 | 27.10 | 27.18 | 27.26 | 27.34 | 27.42 | 27.50 | 27.58 | 27.66 | 27.74 | 27.82 | 27.90 | 27.98 | 28.06 | 28.14 | 28.22 | 28.30 | 28.38 | 28.46 | 28.54 | 28.62 | 28.70 | 28.78 | 28.86 | 28.94 | 29.02 | 29.10 | 29.18 | 29.26 | 29.34 | 29.42 | 29.50 | 29.58 | 29.66 | 29.74 | 29.82 | 29.90 | 29.98 | 30.06 | 30.14 | 30.22 | 30.30 | 30.38 | 30.46 | 30.54 | 30.62 | 30.70 | 30.78 | 30.86 | 30.94 | 31.02 | 31.10 | 31.18 | 31.26 | 31.34 | 31.42 | 31.50 | 31.58 | 31.66 | 31.74 | 31.82 | 31.90 | 31.98 | 32.06 | 32.14 | 32.22 | 32.30 | 32.38 | 32.46 | 32.54 | 32.62 | 32.70 | 32.78 | 32.86 | 32.94 | 33.02 | 33.10 | 33.18 | 33.26 | 33.34 | 33.42 | 33.50 | 33.58 | 33.66 | 33.74 | 33.82 | 33.90 | 33.98 | 34.06 | 34.14 | 34.22 | 34.30 | 34.38 | 34.46 | 34.54 | 34.62 | 34.70 | 34.78 | 34.86 | 34.94 | 35.02 | 35.10 | 35.18 | 35.26 | 35.34 | 35.42 | 35.50 | 35.58 | 35.66 | 35.74 | 35.82 | 35.90 | 35.98 | 36.06 | 36.14 | 36.22 | 36.30 | 36.38 | 36.46 | 36.54 | 36.62 | 36.70 | 36.78 | 36.86 | 36.94 | 37.02 | 37.10 | 37.18 | 37.26 | 37.34 | 37.42 | 37.50 | 37.58 | 37.66 | 37.74 | 37.82 | 37.90 | 37.98 | 38.06 | 38.14 | 38.22 | 38.30 | 38.38 | 38.46 | 38.54 | 38.62 | 38.70 | 38.78 | 38.86 | 38.94 | 39.02 | 39.10 | 39.18 | 39.26 | 39.34 | 39.42 | 39.50 | 39.58 | 39.66 | 39.74 | 39.82 | 39.90 | 39.98 | 40.06 | 40.14 | 40.22 | 40.30 | 40.38 | 40.46 | 40.54 | 40.62 | 40.70 | 40.78 | 40.86 | 40.94 | 41.02 | 41.10 | 41.18 | 41.26 | 41.34 | 41.42 | 41.50 | 41.58 | 41.66 | 41.74 | 41.82 | 41.90 | 41.98 | 42.06 | 42.14 | 42.22 | 42.30 | 42.38 | 42.46 | 42.54 | 42.62 | 42.70 | 42.78 | 42.86 | 42.94 | 43.02 | 43.10 | 43.18 | 43.26 | 43.34 | 43.42 | 43.50 | 43.58 | 43.66 | 43.74 | 43.82 | 43.90 | 43.98 | 44.06 | 44.14 | 44.22 | 44.30 | 44.38 | 44.46 | 44.54 | 44.62 | 44.70 | 44.78 | 44.86 | 44.94 | 45.02 | 45.10 | 45.18 | 45.26 | 45.34 | 45.42 | 45.50 | 45.58 | 45.66 | 45.74 | 45.82 | 45.90 | 45.98 | 46.06 | 46.14 | 46.22 | 46.30 | 46.38 | 46.46 | 46.54 | 46.62 | 46.70 | 46.78 | 46.86 | 46.94 | 47.02 | 47.10 | 47.18 | 47.26 | 47.34 | 47.42 | 47.50 | 47.58 | 47.66 | 47.74 | 47.82 | 47.90 | 47.98 | 48.06 | 48.14 | 48.22 | 48.30 | 48.38 | 48.46 | 48.54 | 48.62 | 48.70 | 48.78 | 48.86 | 48.94 | 49.02 | 49.10 | 49.18 | 49.26 | 49.34 | 49.42 | 49.50 | 49.58 | 49.66 | 49.74 | 49.82 | 49.90 | 49.98 | 50.06 | 50.14 | 50.22 | 50.30 | 50.38 | 50.46 | 50.54 | 50.62 | 50.70 | 50.78 | 50.86 | 50.94 | 51.02 | 51.10 | 51.18 | 51.26 | 51.34 | 51.42 | 51.50 | 51.58 | 51.66 | 51.74 | 51.82 | 51.90 | 51.98 | 52.06 | 52.14 | 52.22 | 52.30 | 52.38 | 52.46 | 52.54 | 52.62 | 52.70 | 52.78 | 52.86 | 52.94 | 53.02 | 53.10 | 53.18 | 53.26 | 53.34 | 53.42 | 53.50 | 53.58 | 53.66 | 53.74 | 53.82 | 53.90 | 53.98 | 54.06 | 54.14 | 54.22 | 54.30 | 54.38 | 54.46 | 54.54 | 54.62 | 54.70 | 54.78 | 54.86 | 54.94 | 55.02 | 55.10 | 55.18 | 55.26 | 55.34 | 55.42 | 55.50 | 55.58 | 55.66 | 55.74 | 55.82 | 55.90 | 55.98 | 56.06 | 56.14 | 56.22 | 56.30 | 56.38 | 56.46 | 56.54 | 56.62 | 56.70 | 56.78 | 56.86 | 56.94 | 57.02 | 57.10 | 57.18 | 57.26 | 57.34 | 57.42 | 57.50 | 57.58 | 57.66 | 57.74 | 57.82 | 57.90 | 57.98 | 58.06 | 58.14 | 58.22 | 58.30 | 58.38 | 58.46 | 58.54 | 58.62 | 58.70 | 58.78 | 58.86 | 58.94 | 59.02 | 59.10 | 59.18 | 59.26 | 59.34 | 59.42 | 59.50 | 59.58 | 59.66 | 59.74 | 59.82 | 59.90 | 59.98 | 60.06 | 60.14 | 60.22 | 60.30 | 60.38 | 60.46 | 60.54 | 60.62 | 60.70 | 60.78 | 60.86 | 60.94 | 61.02 | 61.10 | 61.18 | 61.26 | 61.34 | 61.42 | 61.50 | 61.58 | 61.66 | 61.74 | 61.82 | 61.90 | 61.98 | 62.06 | 62.14 | 62.22 | 62.30 | 62.38 | 62.46 | 62.54 | 62.62 | 62.70 | 62.78 | 62.86 | 62.94 | 63.02 | 63.10 | 63.18 | 63.26 | 63.34 | 63.42 | 63.50 | 63.58 | 63.66 | 63.74 | 63.82 | 63.90 | 63.98 | 64.06 | 64.14 | 64.22 | 64.30 | 64.38 | 64.46 | 64.54 | 64.62 | 64.70 | 64.78 | 64.86 | 64.94 | 65.02 | 65.10 | 65.18 | 65.26 | 65.34 | 65.42 | 65.50 | 65.58 | 65.66 | 65.74 | 65.82 | 65.90 | 65.98 | 66.06 | 66.14 | 66.22 | 66.30 | 66.38 | 66.46 | 66.54 | 66.62 | 66.70 | 66.78 | 66.86 | 66.94 | 67.02 | 67.10 | 67.18 | 67.26 | 67.34 | 67.42 | 67.50 | 67.58 | 67.66 | 67.74 | 67.82 | 67.90 | 67.98 | 68.06 | 68.14 | 68.22 | 68.30 | 68.38 | 68.46 | 68.54 | 68.62 | 68.70 | 68.78 | 68.86 | 68.94 | 69.02 | 69.10 | 69.18 | 69.26 | 69.34 | 69.42 | 69.50 | 69.58 | 69.66 | 69.74 | 69.82 | 69.90 | 69.98 | 70.06 | 70.14 | 70.22 | 70.30 | 70.38 | 70.46 | 70.54 | 70.62 | 70.70 | 70.78 | 70.86 | 70.94 | 71.02 | 71.10 | 71.18 | 71.26 | 71.34 | 71.42 | 71.50 | 71.58 | 71.66 | 71.74 | 71.82 | 71.90 | 71.98 | 72.06 | 72.14 | 72.22 | 72.30 | 72.38 | 72.46 | 72.54 | 72.62 | 72.70 | 72.78 | 72.86 | 72.94 | 73.02 | 73.10 | 73.18 | 73.26 | 73.34 | 73.42 | 73.50 | 73.58 | 73.66 | 73.74 | 73.82 | 73.90 | 73.98 | 74.06 | 74.14 | 74.22 | 74.30 | 74.38 | 74.46 | 74.54 | 74.62 | 74.70 | 74.78 | 74.86 | 74.94 | 75.02 | 75.10 | 75.18 | 75.26 | 75.34 | 75.42 | 75.50 | 75.58 | 75.66 | 75.74 | 75.82 | 75.90 | 75.98 | 76.06 | 76.14 | 76.22 | 76.30 | 76.38 | 76.46 | 76.54 | 76.62 | 76.70 | 76.78 | 76.86 | 76.94 | 77.02 | 77.10 | 77.18 | 77.26 | 77.34 | 77.42 | 77.50 | 77.58 | 77.66 | 77.74 | 77.82 | 77.90 | 77.98 | 78.06 | 78.14 | 78.22 | 78.30 | 78.38 | 78.46 | 78.54 | 78.62 | 78.70 | 78.78 | 78.86 | 78.94 | 79.02 | 79.10 | 79.18 | 79.26 | 79.34 | 79.42 | 79.50 | 79.58 | 79.66 | 79.74 | 79.82 | 79.90 | 79.98 | 80.06 | 80.14 | 80.22 | 80.30 | 80.38 | 80.46 | 80.54 | 80.62 | 80.70 | 80.78 | 80.86 | 80.94 | 81.02 | 81.10 | 81.18 | 81.26 | 81.34 | 81.42 | 81.50 | 81.58 | 81.66 | 81.74 | 81.82 | 81.90 | 81.98 | 82.06 | 82.14 | 82.22 | 82.30 | 82.38 | 82.46 | 82.54 | 82.62 | 82.70 | 82.78 | 82.86 | 82.94 | 83.02 | 83.10 | 83.18 | 83.26 | 83.34 | 83.42 | 83.50 | 83.58 | 83.66 | 83.74 | 83.82 | 83.90 | 83.98 | 84.06 | 84.14 | 84.22 | 84.30 | 84.38 | 84.46 | 84.54 | 84.62 | 84.70 | 84.78 | 84.86 | 84.94 | 85.02 | 85.10 | 85.18 | 85.26 | 85.34 | 85.42 | 85.50 | 85.58 | 85.66 | 85.74 | 85.82 | 85.90 | 85.98 | 86.06 | 86.14 | 86.22 | 86.30 | 86.38 | 86.46 | 86.54 | 86.62 | 86.70 | 86.78 | 86.86 | 86.94 | 87.02 | 87.10 | 87.18 | 87.26 | 87.34 | 87.42 | 87.50 | 87.58 | 87.66 | 87.74 | 87.82 | 87.90 | 87.98 | 88.06 | 88.14 | 88.22 | 88.30 | 88.38 | 88.46 | 88.54 | 88.62 | 88.70 | 88.78 | 88.86 | 88.94 | 89.02 | 89.10 | 89.18 | 89.26 | 89.34 | 89.42 | 89.50 | 89.58 | 89.66 | 89.74 | 89.82 | 89.90 | 89.98 | 90.06 | 90.14 | 90.22 | 90.30 | 90.38 | 90.46 | 90.54 | 90.62 | 90.70 | 90.78 | 90.86 | 90.94 | 91.02 | 91.10 | 91.18 | 91.26 | 91.34 | 91.42 | 91.50 | 91.58 | 91.66 | 91.74 | 91.82 | 91.90 | 91.98 | 92.06 | 92.14 | 92.22 | 92.30 | 92.38 | 92.46 | 92.54 | 92.62 | 92.70 | 92.78 | 92.86 | 92.94 | 93.02 | 93.10 | 93.18 | 93.26 | 93.34 | 93.42 | 93.50 | 93.58 | 93.66 | 93.74 | 93.82 | 93.90 | 93.98 | 94.06 | 94.14 | 94.22 | 94.30 | 94.38 | 94.46 | 94.54 | 94.62 | 94.70 | 94.78 | 94.86 | 94.94 | 95.02 | 95.10 | 95.18 | 95.26 | 95.34 | 95.42 | 95.50 | 95.58 | 95.66 | 95.74 | 95.82 | 95.90 | 95.98 | 96.06 | 96.14 | 96.22 | 96.30 | 96.38 | 96.46 | 96.54 | 96.62 | 96.70 | 96.78 | 96.86 | 96.94 | 97.02 | 97.10 | 97.18 | 97.26 | 97.34 | 97.42 | 97.50 | 97.58 | 97.66 | 97.74 | 97.82 | 97.90 | 97.98 | 98.06 | 98.14 | 98.22 | 98.30 | 98.38 | 98.46 | 98.54 | 98.62 | 98.70 | 98.78 | 98.86 | 98.94 | 99.02 | 99.10 | 99.18 | 99.26 | 99.34 | 99.42 | 99.50 | 99.58 | 99.66 | 99.74 | 99.82 | 99.90 | 99.98 | 100.06 | 100.14 | 100.22 | 100.30 | 100.38 | 100.46 | 100.54 | 100.62 | 100.70 | 100.78 | 100.86 | 100.94 | 101.02 | 101.10 | 101.18 | 101.26 | 101.34 | 101.42 | 101.50 | 101.58 | 101.66 | 101.74 | 101.82 | 101.90 | 101.98 | 102.06 | 102.14 | 102.22 | 102.30 | 102.38 | 102.46 | 102.54 | 102.62 | 102.70 | 102.78 | 102.86 | 102.94 | 103.02 | 103.10 | 103.18 | 103.26 | 103.34 | 103.42 | 103.50 | 103.58 | 103.66 | 103.74 | 103.82 | 103.90 | 103.98 | 104.06 | 104.14 | 104.22 | 104.30 | 104.38 | 104.46 | 104.54 | 104.62 | 104.70 | 10 |

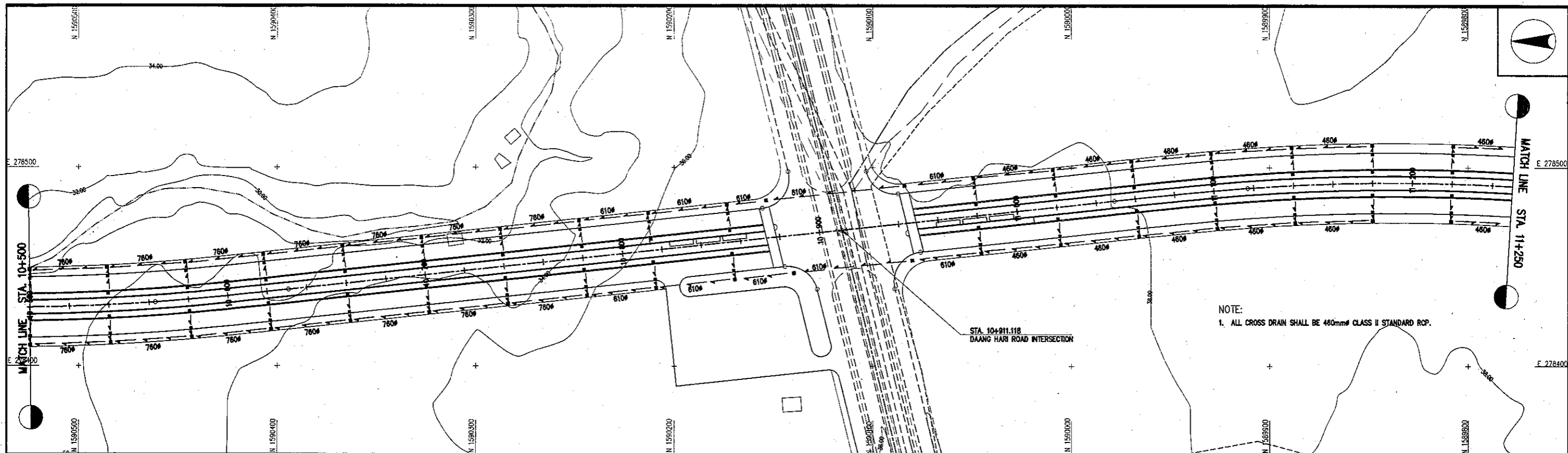


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|---|--|--|---|--|--|---|---------------------------------------|
| <p>ALMEC ALMEC Corporation</p> | <p>Pacific Consultants International</p> | <p>NATIONAL ECONOMIC AND DEVELOPMENT AUTHORITY Republic of the Philippines</p> | <p>JAPAN INTERNATIONAL COOPERATION AGENCY Japan</p> | <p>THE FEASIBILITY STUDY OF THE PROPOSED CAVITE BUSWAY SYSTEM</p> | <p>SHEET CONTENTS PLAN AND PROFILE STA. 9+000 TO STA. 9+750</p> | <p>SCALE 1:2000 HOR. 1:200 VERT.</p> | <p>Drawing Number D-17</p> |
|---|--|--|---|--|--|---|---------------------------------------|

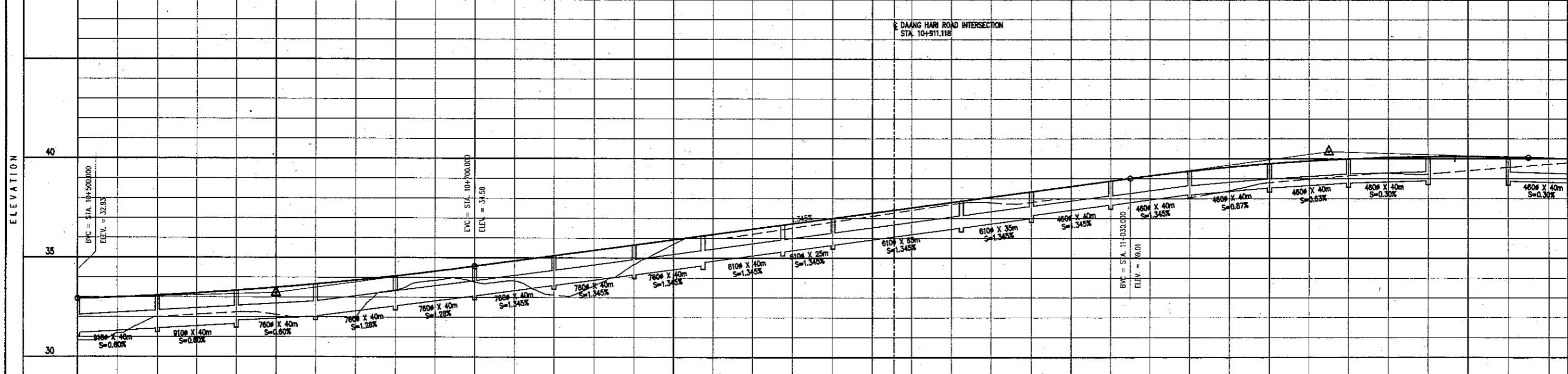


| STATION | 9+800 | 9+850 | 9+900 | 9+950 | 10+000 | 10+050 | 10+100 | 10+150 | 10+200 | 10+250 | 10+300 | 10+350 | 10+400 | 10+450 | 10+500 |
|----------------------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| FINISHED GRADE | 32.43 | 32.42 | 32.56 | 32.56 | 32.51 | 32.45 | 32.39 | 32.33 | 32.27 | 32.21 | 32.15 | 32.09 | 32.03 | 32.03 | 32.03 |
| EXISTING GROUND | 29.24 | 29.28 | 29.33 | 29.41 | 29.65 | 29.66 | 29.86 | 29.77 | 28.00 | 28.00 | 28.00 | 28.00 | 28.00 | 28.00 | 28.00 |
| HORIZONTAL ALIGNMENT | | | | | | | | | | | | | | | |
| VERTICAL ALIGNMENT | | | | | | | | | | | | | | | |
| SUPERELEVATION | | | | | | | | | | | | | | | |
| WIDENING | | | | | | | | | | | | | | | |

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| ALMEC ALMEC Corporation | Pacific Consultants International | NATIONAL ECONOMIC AND DEVELOPMENT AUTHORITY Republic of the Philippines | JAPAN INTERNATIONAL COOPERATION AGENCY Japan | THE FEASIBILITY STUDY OF THE PROPOSED CAVITE BUSWAY SYSTEM | SHEET CONTENTS PLAN AND PROFILE STA. 9+750 TO STA. 10+500 | SCALE 1:2000 HOR. 1:200 VERT. | Drawing Number D-18 |
|---------------------------------------|--|---|--|---|--|--|-------------------------------|

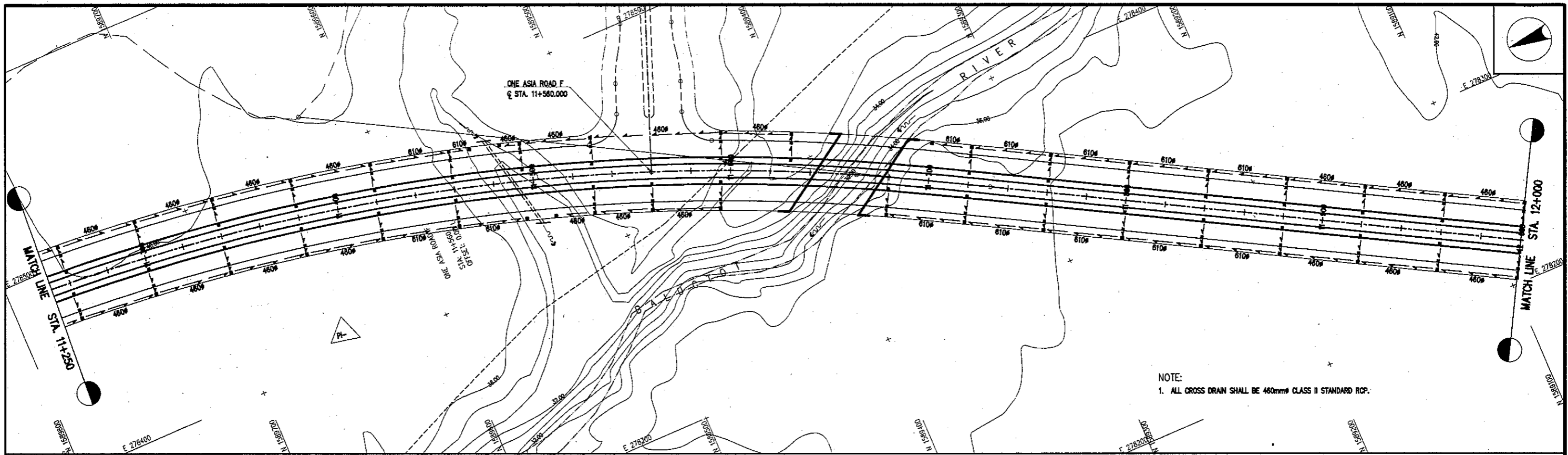


TRAFFIC SIGNS AND PAYEMENT MARKINGS

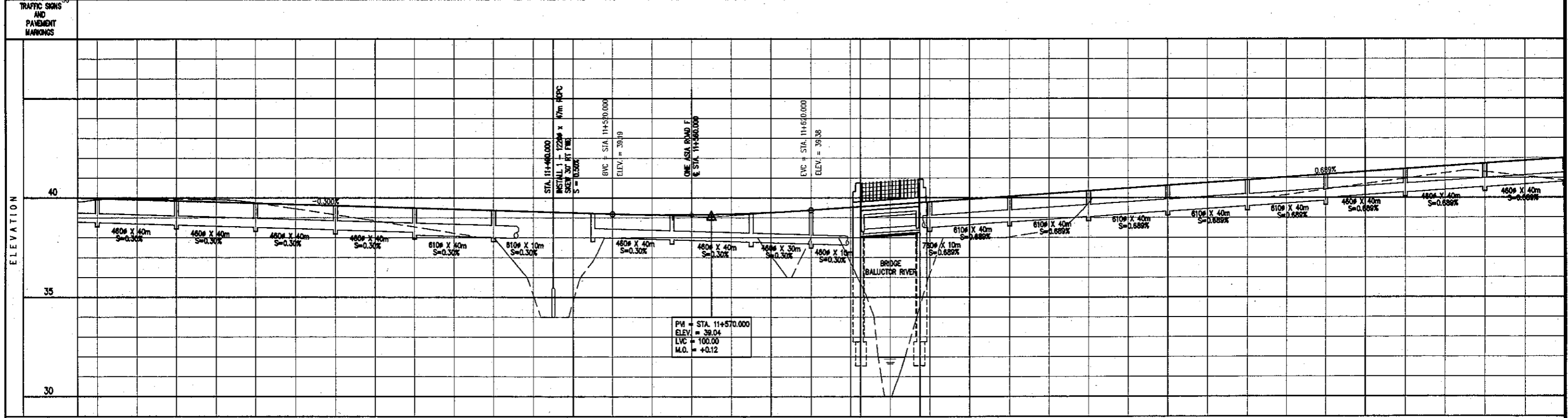


| STATION | 10+500 | 10+600 | 10+700 | 10+800 | 10+900 | 11+000 | 11+100 | 11+200 |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| FINISHED GRADE | 32.83 | 33.00 | 33.09 | 33.20 | 33.34 | 33.49 | 33.67 | 33.88 |
| EXISTING GROUND | 30.80 | 31.70 | 32.00 | 32.13 | 32.24 | 32.34 | 32.42 | 32.48 |
| HORIZONTAL ALIGNMENT | | | | | | | | |
| VERTICAL ALIGNMENT | | | | | | | | |
| SUPERELEVATION | | | | | | | | |
| WIDENING | | | | | | | | |

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| ALMEC ALMEC Corporation | Pacific Consultants International | NATIONAL ECONOMIC AND DEVELOPMENT AUTHORITY Republic of the Philippines | JAPAN INTERNATIONAL COOPERATION AGENCY Japan | THE FEASIBILITY STUDY OF THE PROPOSED CAVITE BUSWAY SYSTEM | SHEET CONTENTS | SCALE | Drawing Number |
| | | | | | PLAN AND PROFILE STA. 10+500 TO STA. 11+250 | 1:2000 HOR. 1:200 VERT. | D-19 |

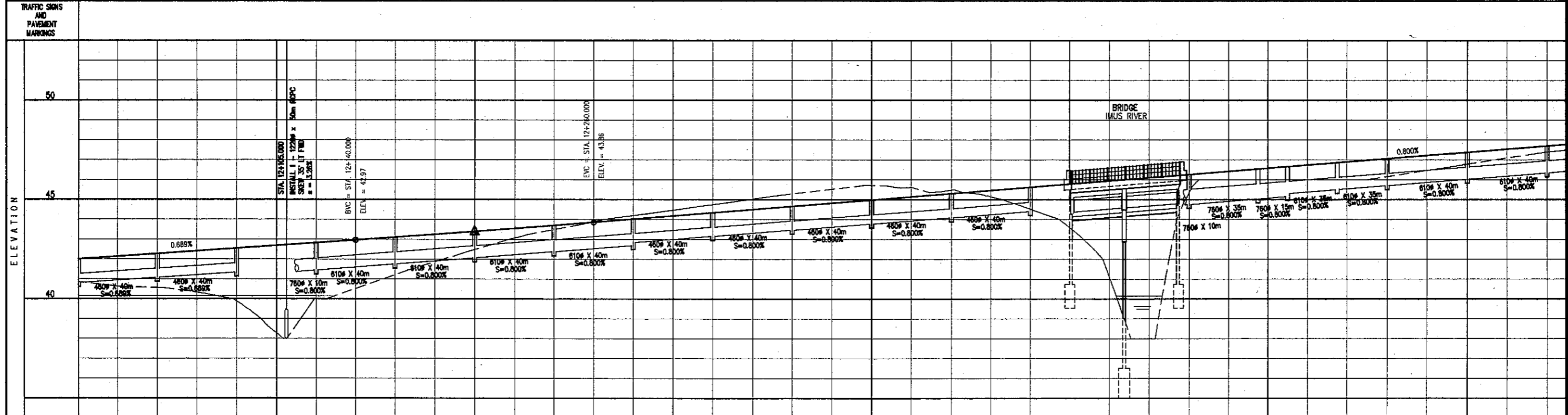
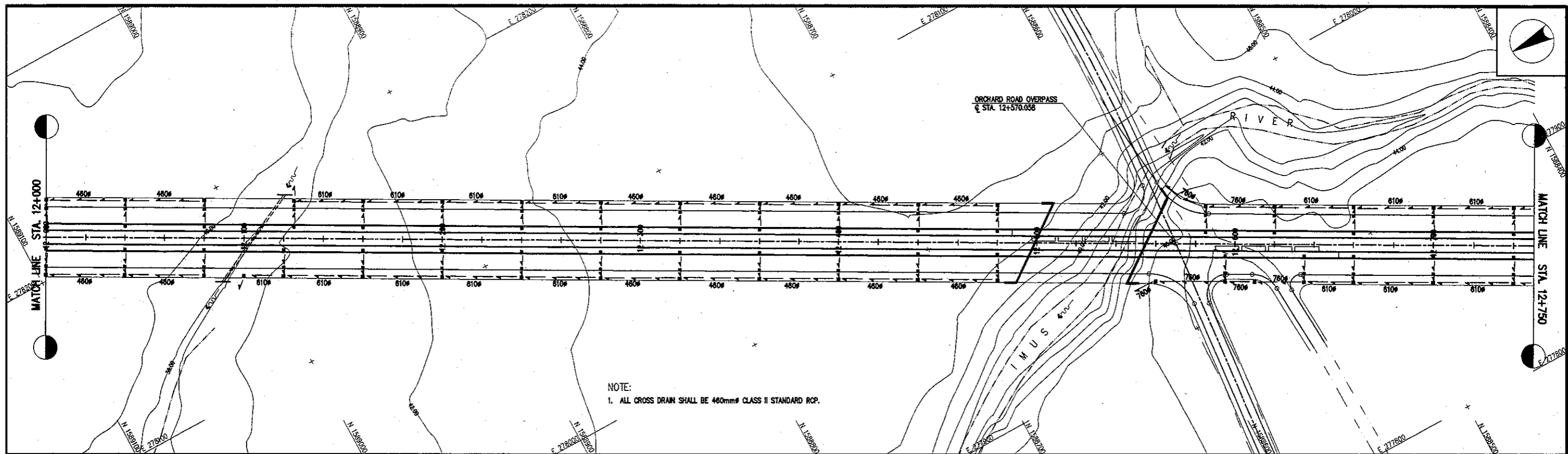


NOTE:
1. ALL CROSS DRAIN SHALL BE 400mm# CLASS II STANDARD RCP.



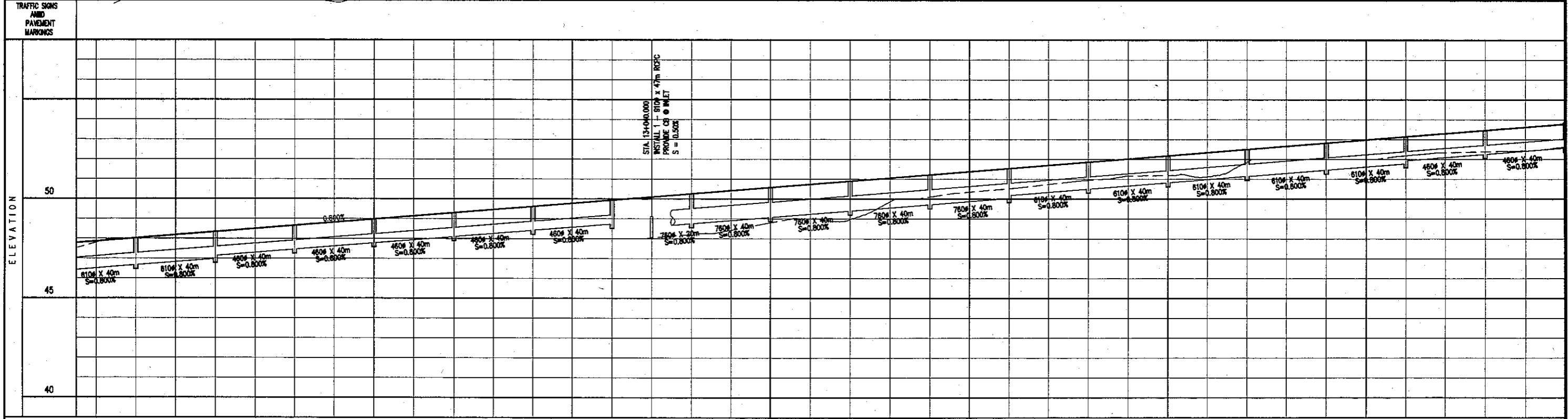
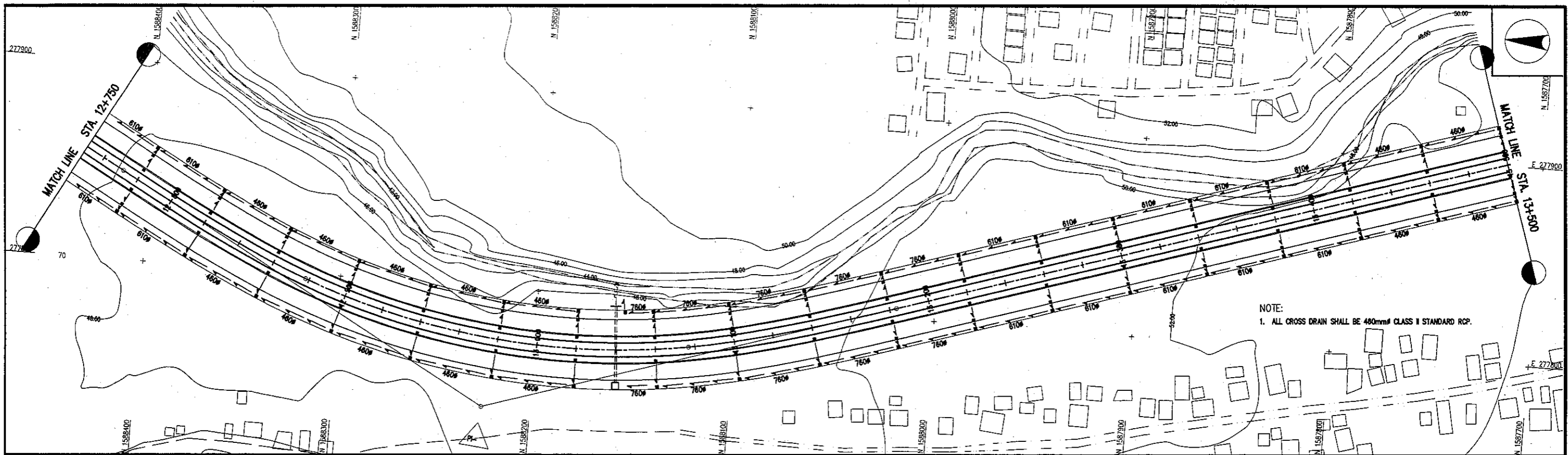
| STATION | 11+300 | 11+400 | 11+500 | 11+600 | 11+700 | 11+800 | 11+900 | 12+000 |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| FINISHED GRADE | 39.97 | 39.91 | 39.85 | 39.79 | 39.73 | 39.67 | 39.61 | 39.55 |
| EXISTING GROUND | 39.92 | 40.00 | 39.95 | 39.92 | 39.75 | 39.46 | 39.16 | 38.85 |
| HORIZONTAL ALIGNMENT | | | | | | | | |
| VERTICAL ALIGNMENT | | | | | | | | |
| SUPERELEVATION | | | | | | | | |
| WIDTH | | | | | | | | |

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| ALMEC ALMEC Corporation | Pacific Consultants International | NATIONAL ECONOMIC AND DEVELOPMENT AUTHORITY Republic of the Philippines | JAPAN INTERNATIONAL COOPERATION AGENCY Japan | THE FEASIBILITY STUDY OF THE PROPOSED CAVITE BUSWAY SYSTEM | SHEET CONTENTS PLAN AND PROFILE STA. 11+250 TO STA. 12+000 | SCALE 1:2000 HOR. 1:200 VERT. | Drawing Number D-20 |
| | | | | | | | |



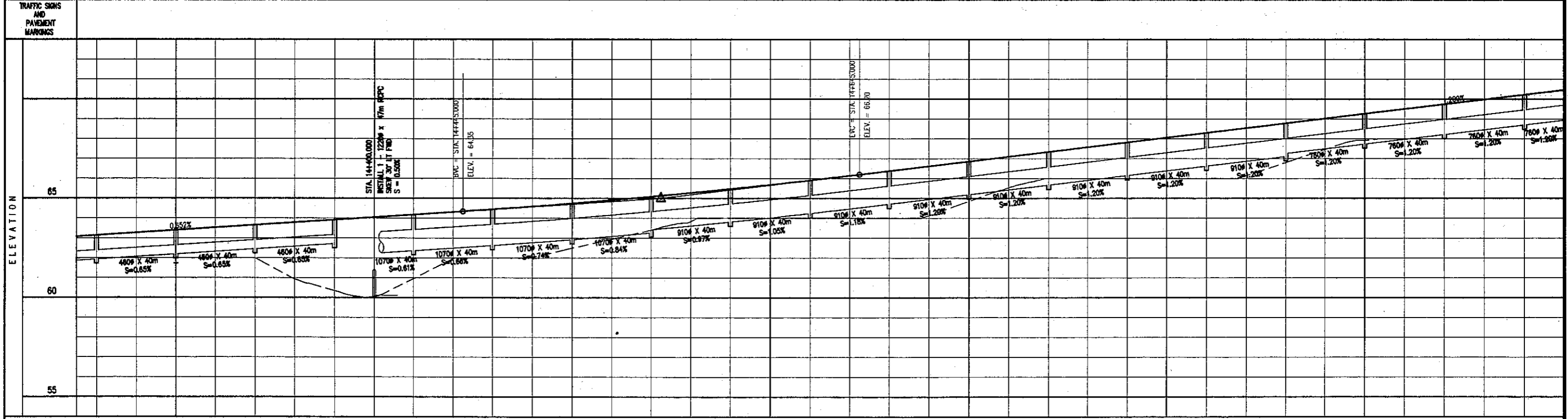
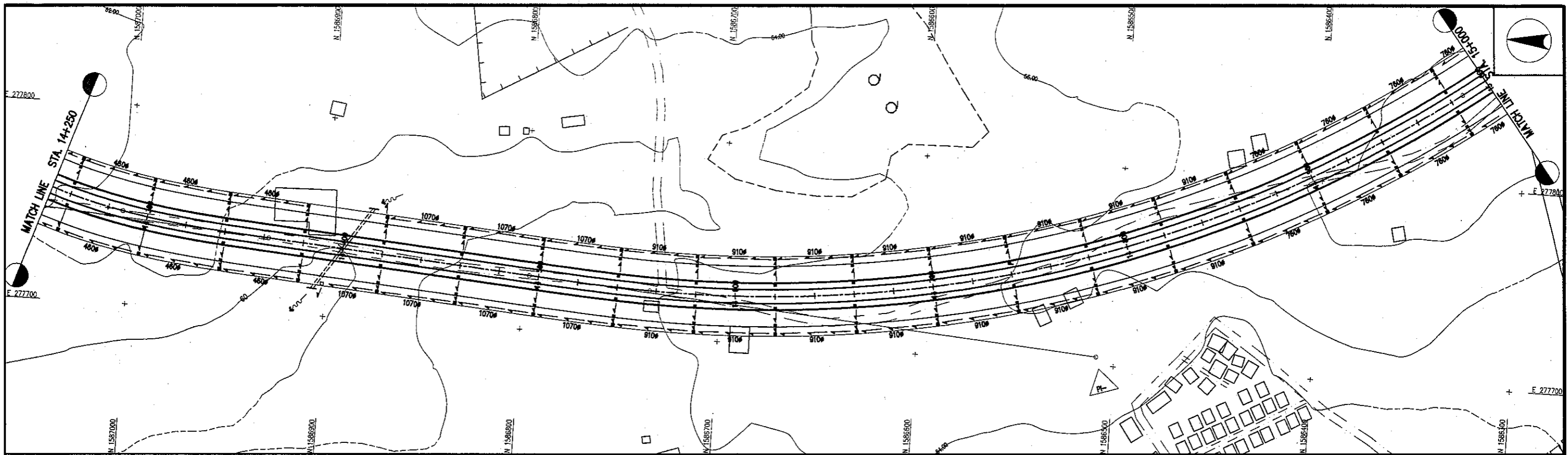
| STATION | 12+000 | 12+100 | 12+200 | 12+300 | 12+400 | 12+500 | 12+600 | 12+700 |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| FINISHED GRADE | 42.00 | 42.14 | 42.25 | 42.42 | 42.55 | 42.69 | 42.83 | 42.97 |
| EXISTING GROUND | 40.88 | 40.63 | 40.56 | 40.33 | 39.88 | 38.29 | 40.00 | 40.51 |
| HORIZONTAL ALIGNMENT | | | | | | | | |
| VERTICAL ALIGNMENT | | | | | | | | |
| SUPERELEVATION | | | | | | | | |
| WOODING | | | | | | | | |

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| ALMEC ALMEC Corporation | Pacific Consultants International | NATIONAL ECONOMIC AND DEVELOPMENT AUTHORITY Republic of the Philippines | JICA JAPAN INTERNATIONAL COOPERATION AGENCY Japan | THE FEASIBILITY STUDY OF THE PROPOSED CAVITE BUSWAY SYSTEM | SHEET CONTENTS PLAN AND PROFILE STA. 12+000 TO STA. 12+750 | SCALE 1:2000 HOR. 1:200 VERT. | Drawing Number D-21 |
|---------------------------------------|---|---|--|---|---|--|-------------------------------|



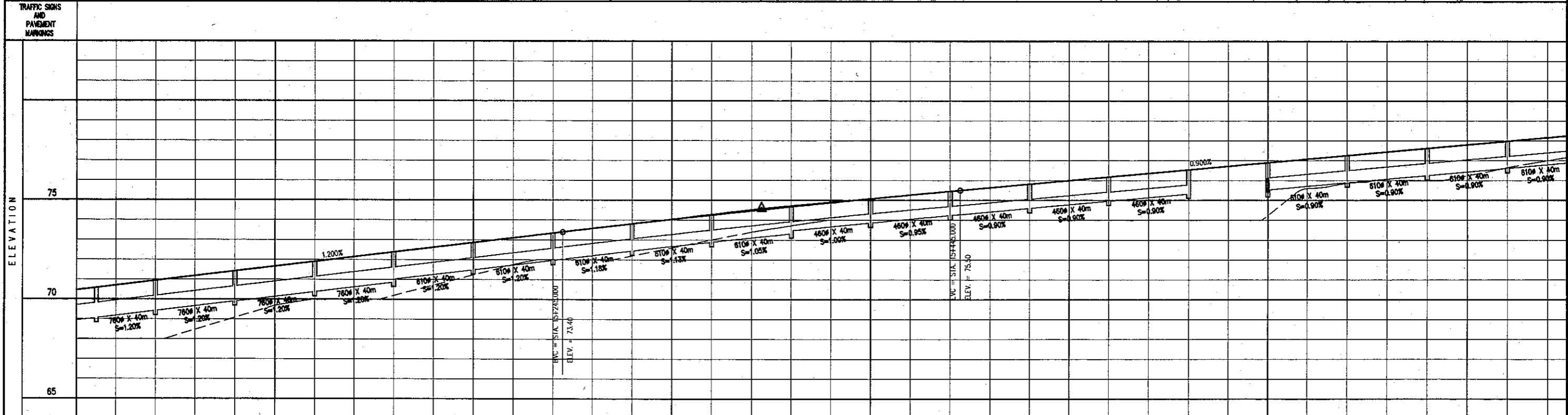
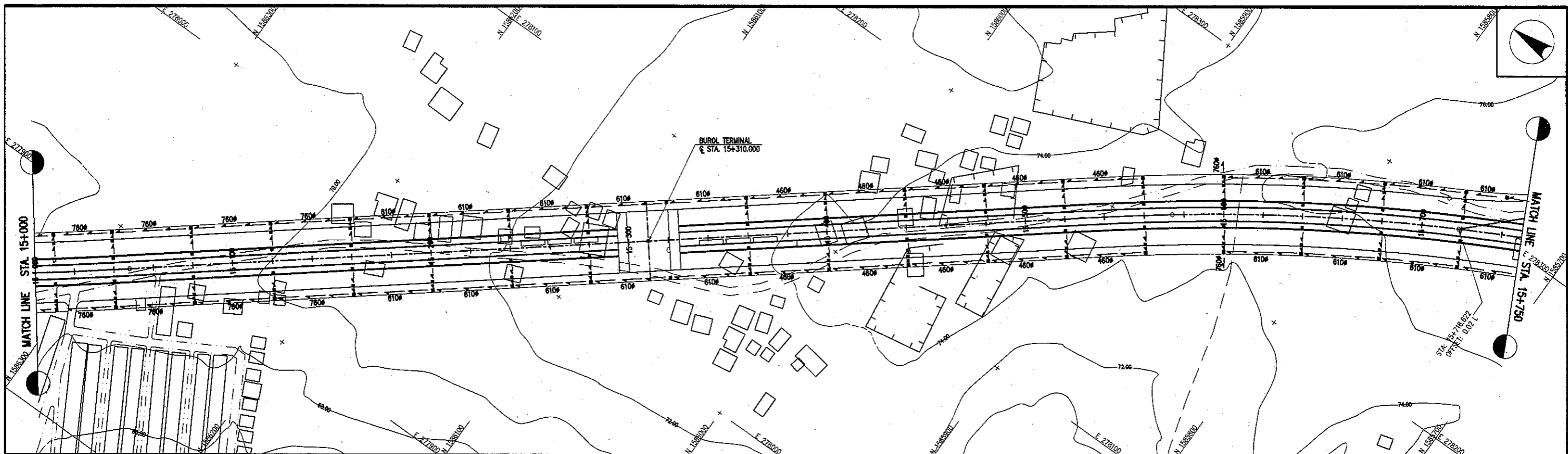
| STATION | 12+800 | 12+900 | 13+000 | 13+100 | 13+200 | 13+300 | 13+400 | 13+500 |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| FINISHED GRADE | 47.79 | 48.02 | 48.34 | 48.62 | 48.90 | 49.18 | 49.46 | 49.74 |
| EXISTING GROUND | 47.79 | 48.00 | 48.15 | 48.34 | 48.50 | 48.65 | 48.82 | 48.98 |
| HORIZONTAL ALIGNMENT | | | | | | | | |
| VERTICAL ALIGNMENT | | | | | | | | |
| SUPERELEVATION | | | | | | | | |
| WIDENING | | | | | | | | |

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| <p>ALMEC ALMEC Corporation</p> | <p>Pacific Consultants International</p> | <p>NATIONAL ECONOMIC AND DEVELOPMENT AUTHORITY Republic of the Philippines</p> | <p>JAPAN INTERNATIONAL COOPERATION AGENCY Japan</p> | <p>THE FEASIBILITY STUDY OF THE PROPOSED CAVITE BUSWAY SYSTEM</p> | <p>SHEET CONTENTS PLAN AND PROFILE STA. 12+750 TO STA. 13+500</p> | <p>SCALE 1:2000 HOR. 1:200 VERT.</p> | <p>Drawing Number D-22</p> |
|---|--|--|---|--|--|---|---------------------------------------|



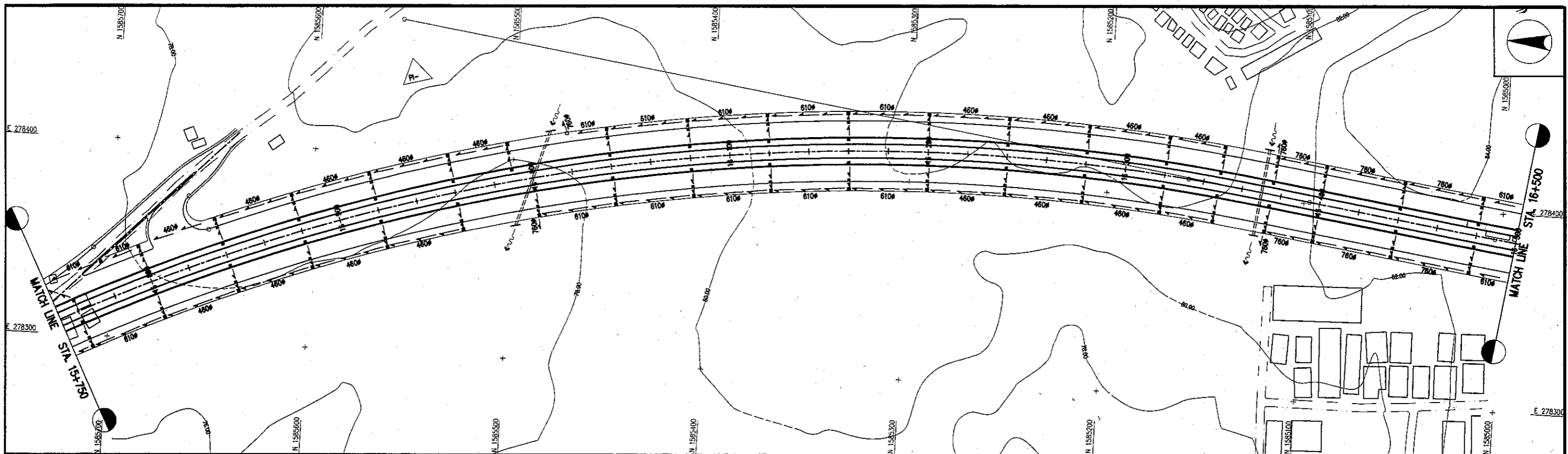
| STATION | 14+300 | 14+400 | 14+500 | 14+600 | 14+700 | 14+800 | 14+900 | 15+000 |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| FINISHED GRADE | 63.14 | 63.27 | 63.53 | 63.66 | 63.79 | 63.92 | 64.05 | 64.18 |
| EXISTING GROUND | 62.00 | 62.00 | 62.00 | 62.00 | 62.04 | 62.04 | 62.04 | 62.04 |
| HORIZONTAL ALIGNMENT | | | | | | | | |
| VERTICAL ALIGNMENT | | | | | | | | |
| SUPERELEVATION | | | | | | | | |
| WORKING | | | | | | | | |

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| ALMEC ALMEC Corporation | Pacific Consultants International | NATIONAL ECONOMIC AND DEVELOPMENT AUTHORITY Republic of the Philippines | JAPAN INTERNATIONAL COOPERATION AGENCY Japan | THE FEASIBILITY STUDY OF THE PROPOSED CAVITE BUSWAY SYSTEM | SHEET CONTENTS | SCALE | Drawing Number |
| | | | | | PLAN AND PROFILE STA. 14+250 TO STA. 15+000 | 1:2000 HOR. 1:200 VERT. | D-24 |

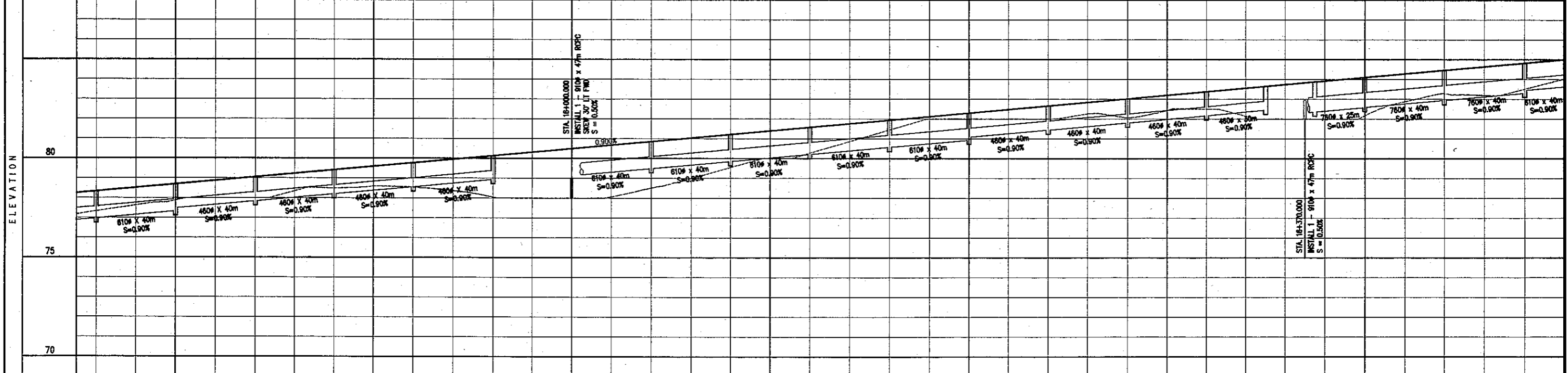


| STATION | 15+000 | 15+100 | 15+200 | 15+300 | 15+400 | 15+500 | 15+600 | 15+700 |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| FINISHED GRADE | 70.46 | 70.70 | 70.84 | 70.98 | 71.12 | 71.26 | 71.40 | 71.54 |
| EXISTING GROUND | 68.00 | 68.00 | 68.00 | 68.47 | 69.08 | 69.68 | 70.00 | 70.00 |
| HORIZONTAL ALIGNMENT | | | | | | | | |
| VERTICAL ALIGNMENT | | | | | | | | |
| SUPERELEVATION | | | | | | | | |
| WIDENING | | | | | | | | |

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| ALMEC ALMEC Corporation | Pacific Consultants International | NATIONAL ECONOMIC AND DEVELOPMENT AUTHORITY Republic of the Philippines | JAPAN INTERNATIONAL COOPERATION AGENCY Japan | THE FEASIBILITY STUDY OF THE PROPOSED CAVITE BUSWAY SYSTEM | SHEET CONTENTS | SCALE | Drawing Number |
| | | | | | PLAN AND PROFILE STA. 15+000 TO STA. 15+750 | 1:2000 HOR. 1:200 VERT. | D-25 |



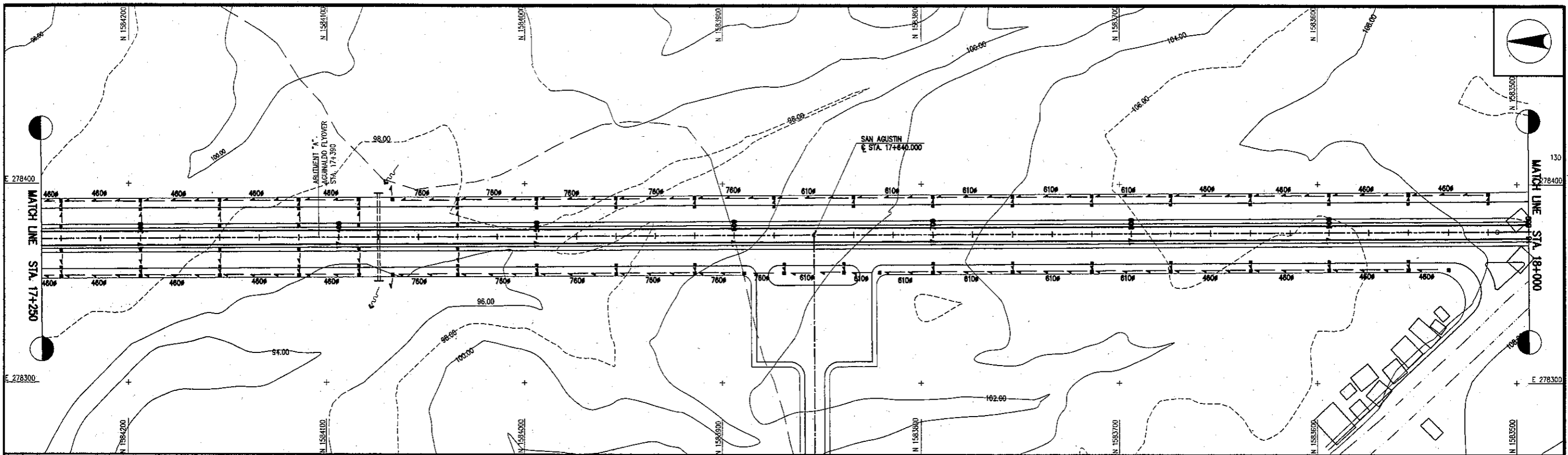
TRAFFIC SIGNS AND PAVEMENT MARKINGS



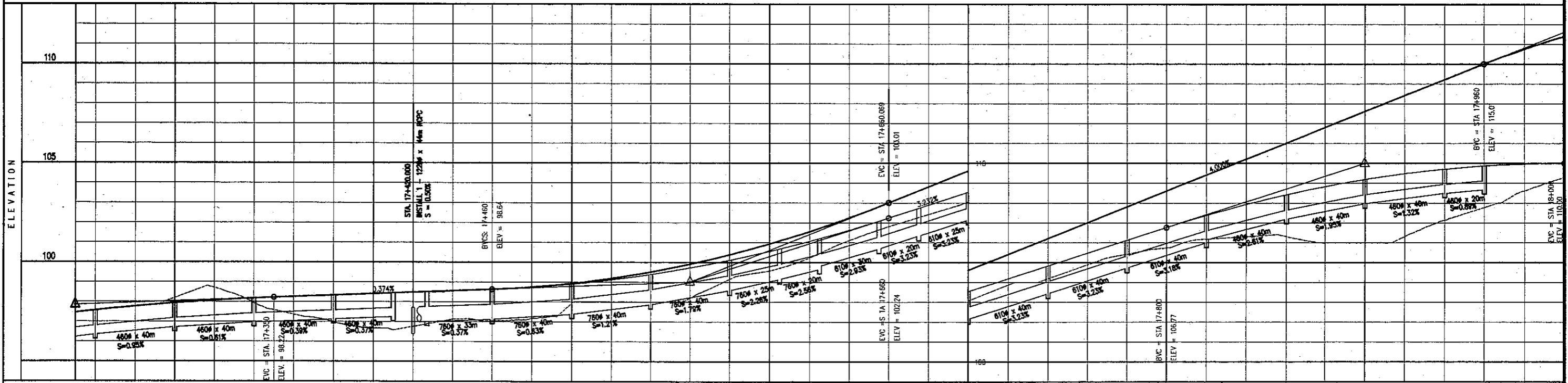
| STATION | 15+800 | 15+900 | 16+000 | 16+100 | 16+200 | 16+300 | 16+400 | 16+500 |
|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|
| FINISHED GRADE | 77.53 | 78.52 | 79.05 | 80.50 | 81.40 | 82.30 | 83.20 | 84.10 |
| EXISTING GROUND | 77.63 | 78.70 | 79.24 | 80.32 | 81.22 | 82.12 | 83.02 | 83.92 |

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| HORIZONTAL ALIGNMENT | |
| VERTICAL ALIGNMENT | |
| SUPERELEVATION | |
| WIDENING | |

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| ALMEC ALMEC Corporation | Pacific Consultants International | NATIONAL ECONOMIC AND DEVELOPMENT AUTHORITY Republic of the Philippines | JAPAN INTERNATIONAL COOPERATION AGENCY Japan | THE FEASIBILITY STUDY OF THE PROPOSED CAVITE BUSWAY SYSTEM | SHEET CONTENTS PLAN AND PROFILE STA. 15+750 TO STA. 16+500 | SCALE 1:2000 HOR. 1:200 VERT. | Drawing Number D-26 |
| | | | | | | | |



TRAFFIC SIGNS AND PAVEMENT MARKINGS

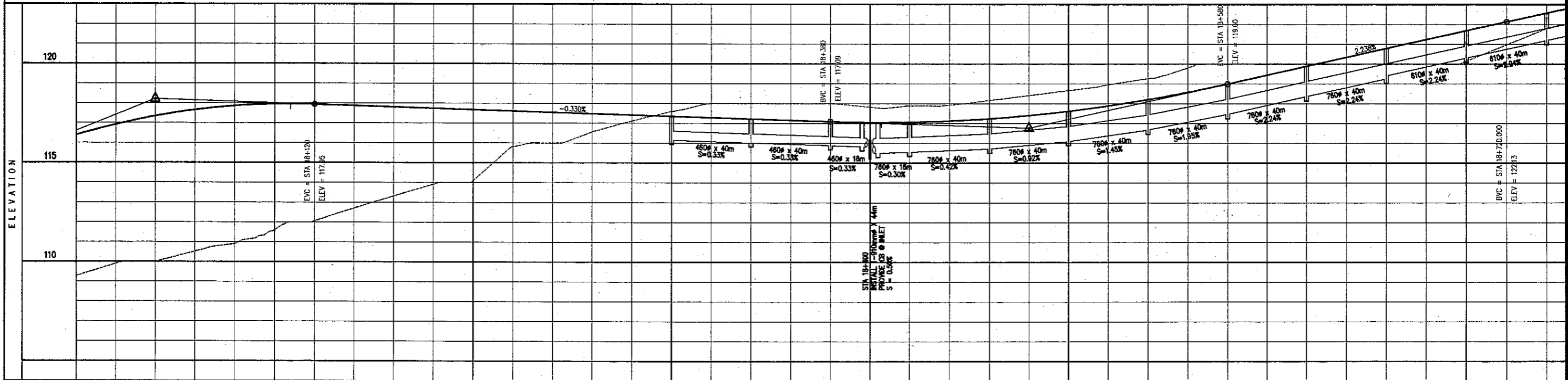


| STATION | 17+300 | 17+400 | 17+500 | 17+600 | 17+700 | 17+800 | 17+900 | 18+000 |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| FINISHED GRADE | 97.57 | 97.77 | 97.94 | 98.05 | 98.18 | 98.26 | 98.34 | 98.41 |
| EXISTING GROUND | 98.00 | 98.20 | 98.71 | 98.94 | 99.04 | 99.16 | 99.25 | 99.34 |
| HORIZONTAL ALIGNMENT | | | | | | | | |
| VERTICAL ALIGNMENT | | | | | | | | |
| SUPERELEVATION | | | | | | | | |
| WIDENING | | | | | | | | |

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| | | | | | | 1:2000 HOR. 1:200 VERT. | D-28 |

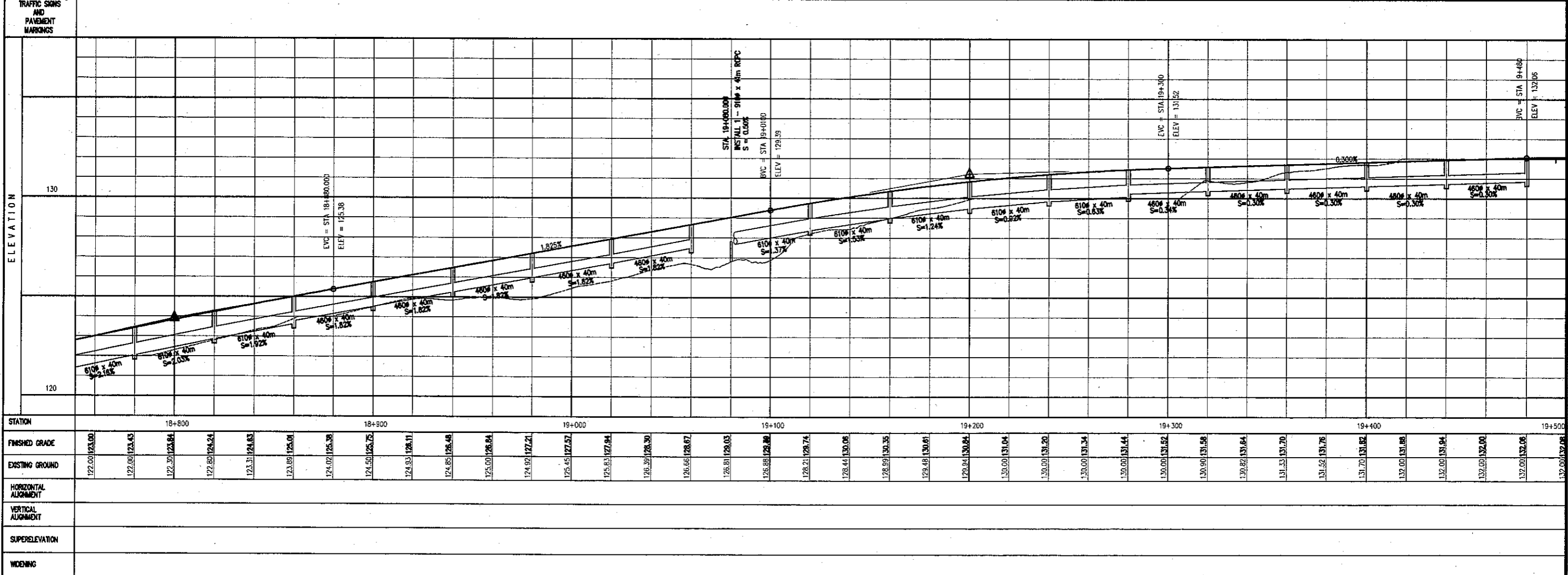
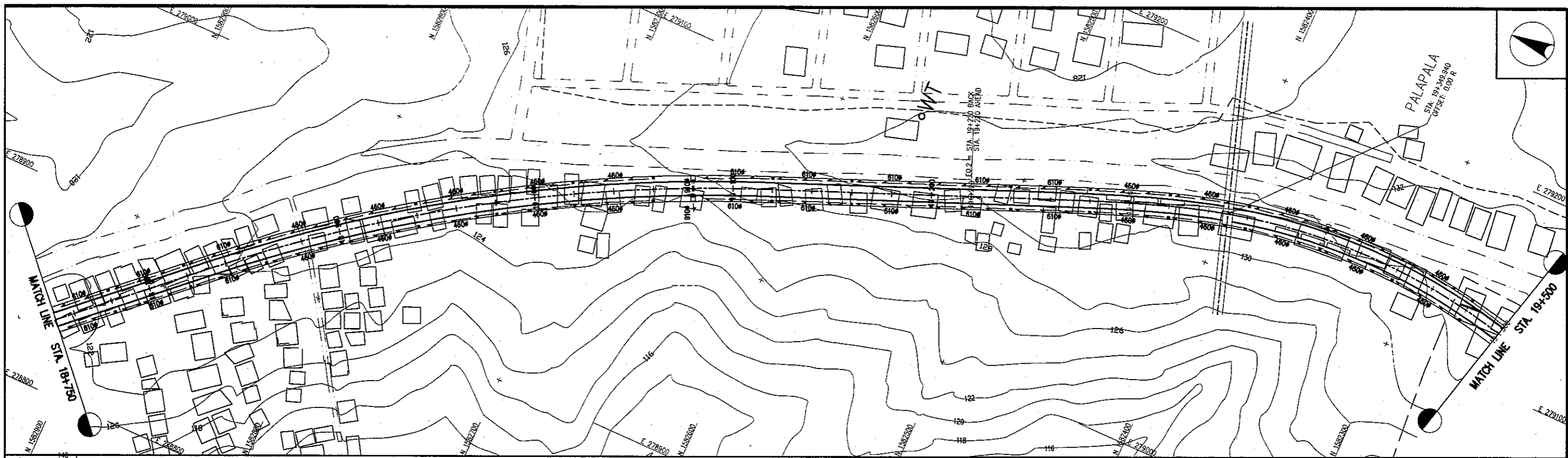


TRAFFIC SIGNS
AND
PAVEMENT
MARKINGS



| STATION | 18+000 | 18+100 | 18+200 | 18+300 | 18+400 | 18+500 | 18+600 | 18+700 |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| FINISHED GRADE | 116.92 | 117.34 | 117.66 | 117.95 | 117.95 | 117.95 | 117.95 | 117.95 |
| EXISTING GROUND | 109.28 | 109.50 | 110.52 | 110.90 | 111.60 | 112.71 | 113.32 | 113.91 |
| HORIZONTAL ALIGNMENT | | | | | | | | |
| VERTICAL ALIGNMENT | | | | | | | | |
| SUPERELEVATION | | | | | | | | |
| WIDENING | | | | | | | | |

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|---|---|---|---|--|--|----------------------------|----------------|
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| | | | | | | 1:2000 HOR. 1:200 VERT. | D-29 |



| STATION | 18+750 | 18+800 | 18+850 | 18+900 | 18+950 | 19+000 | 19+050 | 19+100 | 19+150 | 19+200 | 19+250 | 19+300 | 19+350 | 19+400 | 19+450 | 19+500 |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| FINISHED GRADE | 122.00 | 123.00 | 123.45 | 123.84 | 124.24 | 124.63 | 125.01 | 125.38 | 125.75 | 126.11 | 126.48 | 126.84 | 127.21 | 127.57 | 127.94 | 128.30 |
| EXISTING GROUND | 122.00 | 122.00 | 122.30 | 122.80 | 123.31 | 123.85 | 124.42 | 125.00 | 125.58 | 126.16 | 126.74 | 127.32 | 127.90 | 128.48 | 129.06 | 129.64 |
| HORIZONTAL ALIGNMENT | | | | | | | | | | | | | | | | |
| VERTICAL ALIGNMENT | | | | | | | | | | | | | | | | |
| SUPERELEVATION | | | | | | | | | | | | | | | | |
| WIDENING | | | | | | | | | | | | | | | | |

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Republic of the Philippines

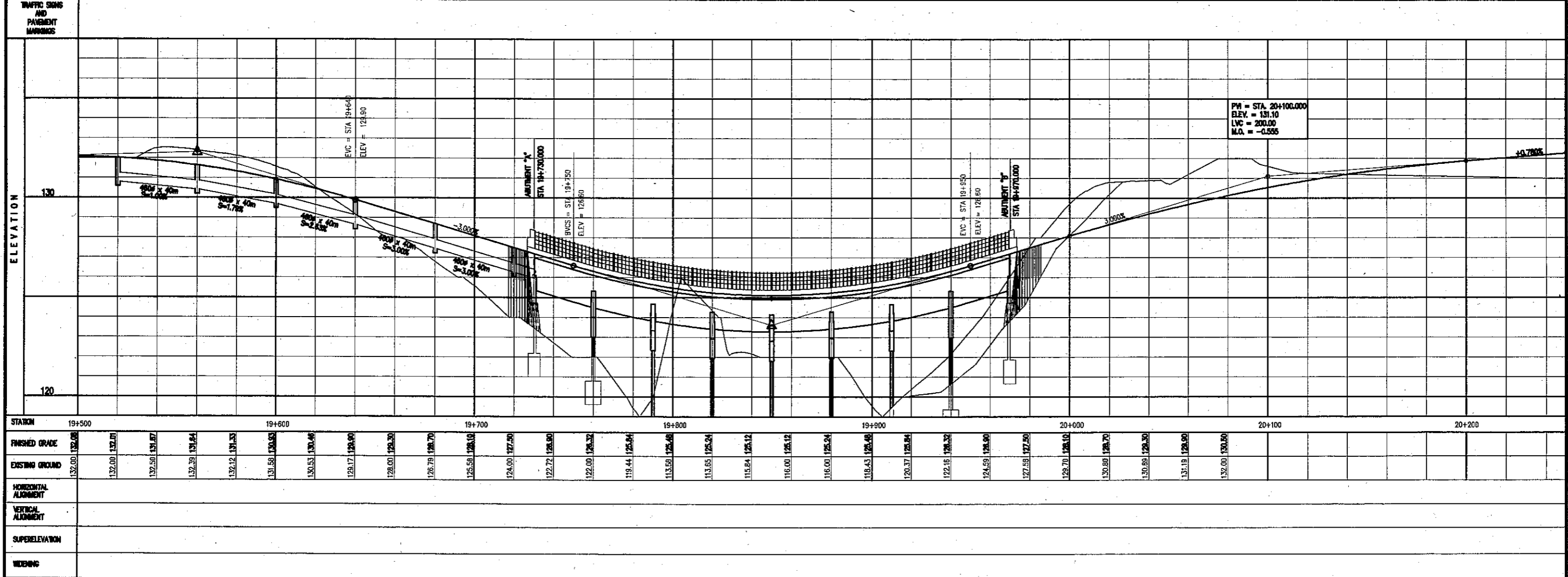
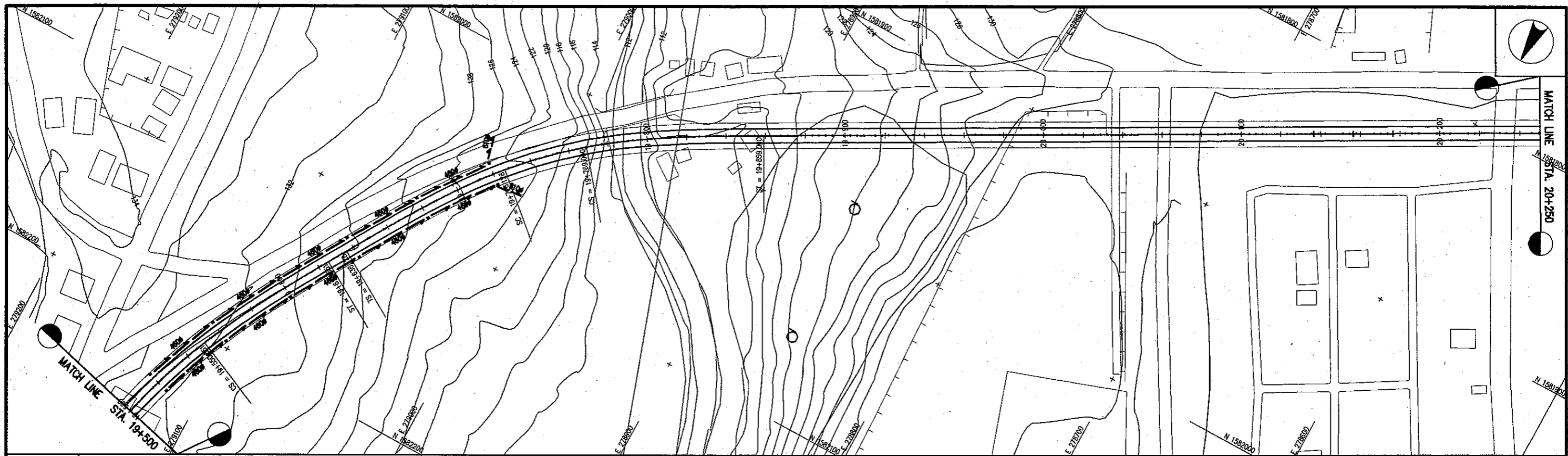
JICA
JAPAN INTERNATIONAL COOPERATION AGENCY
Japan

THE FEASIBILITY STUDY OF THE PROPOSED CAVITE BUSWAY SYSTEM

PLAN AND PROFILE
STA. 18+750 TO STA. 19+500

SCALE
1:2000 HOR.
1:200 VERT.

Drawing Number
D-30



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| TRAFFIC SIGNS AND PAINT MARKINGS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ELEVATION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| STATION | 19+500 | | | | 19+600 | | | | | 19+700 | | | | | 19+800 | | | | | 19+900 | | | | | 20+000 | | | | | 20+100 | | | | | 20+200 | | | | | | | | | | | | | | | | | | | | | | | |
| FINISHED GRADE | 132.00 | 132.00 | 132.07 | | 132.50 | 131.87 | 131.64 | | 132.12 | 131.53 | 131.58 | 130.53 | 130.46 | | 129.17 | 129.90 | 129.00 | 129.30 | 128.79 | 128.70 | 128.59 | 128.09 | 127.00 | 126.80 | 122.72 | 126.32 | 119.44 | 125.84 | 113.59 | 125.46 | 113.65 | 125.24 | 115.84 | 125.12 | 116.00 | 125.12 | 116.00 | 125.24 | 118.45 | 125.46 | 120.37 | 125.84 | 122.16 | 126.32 | 124.69 | 126.90 | 127.59 | 127.50 | 129.70 | 128.10 | 130.88 | 128.70 | 130.89 | 129.30 | 131.19 | 129.80 | 132.00 | 130.50 |
| EXISTING GROUND | 132.00 | 132.00 | 132.07 | | 132.50 | 131.87 | 131.64 | | 132.12 | 131.53 | 131.58 | 130.53 | 130.46 | | 129.17 | 129.90 | 129.00 | 129.30 | 128.79 | 128.70 | 128.59 | 128.09 | 127.00 | 126.80 | 122.72 | 126.32 | 119.44 | 125.84 | 113.59 | 125.46 | 113.65 | 125.24 | 115.84 | 125.12 | 116.00 | 125.12 | 116.00 | 125.24 | 118.45 | 125.46 | 120.37 | 125.84 | 122.16 | 126.32 | 124.69 | 126.90 | 127.59 | 127.50 | 129.70 | 128.10 | 130.88 | 128.70 | 130.89 | 129.30 | 131.19 | 129.80 | 132.00 | 130.50 |
| HORIZONTAL ALIGNMENT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VERTICAL ALIGNMENT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SUPERELEVATION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WEAVING | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| ALMEC ALMEC Corporation | Pacific Consultants International | NATIONAL ECONOMIC AND DEVELOPMENT AUTHORITY Republic of the Philippines | JICA JAPAN INTERNATIONAL COOPERATION AGENCY Japan | THE FEASIBILITY STUDY OF THE PROPOSED CAVITE BUSWAY SYSTEM | PLAN AND PROFILE STA. 19+500 TO STA. 20+250 | SCALE | Drawing Number |
| | | | | | | 1:2000 HOR. 1:200 VERT. | D-31 |