

FILE NAME = 6754-ESTIMATE-001.dgn
DATE PRINTED = 5/26/2015
8:27:45 AM

STATEMENT OF ESTIMATED QUANTITIES

Add Item:
2104.509
REMOVE SIGN
TYPE C (EA) and
note FINAL
DISPOSITION
PER TRAFFIC

| | DESCRIPTION | NOTE | UNIT | MSA S.A.P. NO. 141-191-009 | L.P. NO. 6754 | EST. TOTAL |
|----------|---|------|-----------|----------------------------------|------------------|------------|
| | MOBILIZATION | | LUMP SUM | 1 | | 1 |
| | FIELD OFFICE TYPE D | | EACH | 1 | | 1 |
| | CLEARING | | TREE | 1 | | 1 |
| | GRUBBING | | TREE | 1 | | 1 |
| | REMOVE CHAIN LINK FENCE | | LIN FT | 49 | | 49 |
| | REMOVE CURB AND GUTTER | | LIN FT | 2475 | | 2475 |
| 2104.501 | REMOVE SEWER PIPE (STORM) | | LIN FT | 526 | | 526 |
| 2104.501 | REMOVE ASBESTOS-BONDED PIPE | | LIN FT | 288 | | 288 |
| 2104.503 | REMOVE CONCRETE SIDEWALK | | SQ FT | 15332 | | 15332 |
| 2104.503 | REMOVE WOOD RETAINING WALL | | SQ FT | 20 | | 20 |
| 2104.505 | REMOVE CONCRETE DRIVEWAY PAVEMENT | | SQ YD | 787 | | 787 |
| 2104.505 | REMOVE CONCRETE PAVEMENT | | SQ YD | 9169 | | 9169 |
| 2104.509 | REMOVE CATCH BASIN | | EACH | 10 | | 10 |
| 2104.509 | REMOVE MANHOLE | | EACH | 3 | | 3 |
| 2104.509 | REMOVE SIGNAL SYSTEM | | EACH | 1 | | 1 |
| 2104.511 | SAWING CONCRETE PAVEMENT (FULL DEPTH) | | LIN FT | 923 | | 923 |
| 2104.513 | SAWING BIT PAVEMENT (FULL DEPTH) | A | LIN FT | 385 | | 385 |
| 2104.602 | REMOVE PEDESTAL SIGNAL FOUNDATION (ASBESTOS) | | EACH | 4 | | 4 |
| 2105.501 | COMMON EXCAVATION | P | CU YD | 2603 | | 2603 |
| 2105.507 | SUBGRADE EXCAVATION | B | CU YD | 136 | | 136 |
| 2105.607 | HAUL & DISPOSE OF CONTAMINATED MATERIAL | | CU YD | 500 | | 500 |
| 2130.501 | WATER | | M GALLONS | 33 | | 33 |
| 2211.503 | AGGREGATE BASE (CV) CLASS 5 | P | CU YD | 363 | | 363 |
| 2331.603 | SAWED/SEALED JOINT | | LIN FT | 2180 | | 2180 |
| 2356.506 | BITUMINOUS SEAL COAT | | SQ YD | 8717 | | 8717 |
| 2360.501 | TYPE SP 12.5 WEARING COURSE MIXTURE (5,L) | | TON | 2054 | | 2054 |
| 2360.502 | TYPE SP 12.5 NON WEARING COURSE MIXTURE (4,L) | | TON | 3391 | | 3391 |
| 2401.541 | REINFORCEMENT BARS (EPOXY COATED) | | POUND | 179 | | 179 |
| 2502.602 | CONNECT TO EXISTING PIPE DRAIN | | EACH | 1 | | 1 |
| 2503.603 | 12" PVC PIPE SEWER | | LIN FT | 479 | | 479 |
| 2503.603 | 15" PVC PIPE SEWER | | LIN FT | 239 | | 239 |
| 2504.602 | ADJUST CURB STOP | | EACH | 7 | | 7 |
| 2504.602 | ADJUST HYDRANT AND GATE VALVE | | EACH | 3 | | 3 |
| 2504.602 | ADJUST WATER MANHOLES | | EACH | 8 | | 8 |
| 2504.602 | RELOCATE HYDRANT & VALVE | | EACH | 1 | | 1 |
| 2506.501 | CONST DRAINAGE STRUCTURE DES 48-4020 | | LIN FT | 11 | | 11 |
| 2506.502 | CONST DRAINAGE STRUCTURE DESIGN N | | EACH | 12 | | 12 |
| 2506.503 | RECONSTRUCT DRAINAGE STRUCTURE | C | LIN FT | 5 | | 5 |
| 2506.516 | CASTING ASSEMBLY | D | EACH | 10 | | 10 |
| 2506.521 | INSTALL CASTING | E | EACH | 3 | | 3 |
| 2506.522 | ADJUST FRAME & RING CASTING | F | EACH | 18 | | 18 |
| 2506.602 | CONNECT INTO EXISTING MANHOLE | | EACH | 9 | | 9 |
| 2521.501 | 3.5" CONCRETE WALK | | SQ FT | 14453 | | 14453 |
| 2521.501 | 6" CONCRETE WALK | | SQ FT | 4388 | | 4388 |
| 2531.501 | CONCRETE CURB & GUTTER DESIGN B624 | | LIN FT | 2547 | | 2547 |

STATEMENT OF ESTIMATED QUANTITIES

| ITEM | DESCRIPTION | NOTE | UNIT | MSA S.A.P. NO. 141-191-009 | L.P. NO. 6754 | EST. TOTAL |
|----------|-----------------------------------|------|----------|----------------------------------|------------------|------------|
| 2531.502 | CONCRETE CURB DESIGN V6 | | LIN FT | 41 | | 41 |
| 2531.507 | 8" CONCRETE DRIVEWAY PAVEMENT | | SQ YD | 780 | | 780 |
| 2531.618 | TRUNCATED DOMES | | SQ FT | 144 | | 144 |
| 2550.511 | SIGN FOUNDATION | | EACH | 14 | | 14 |
| 2557.603 | INSTALL CHAIN LINK FENCE | | LIN FT | 48 | | 48 |
| 2563.601 | TRAFFIC CONTROL | G | LUMP SUM | 1 | | 1 |
| 2564.537 | INSTALL SIGN TYPE C | | EACH | 35 | | 35 |
| 2564.602 | INSTALL SIGN COLLAR | | EACH | 12 | | 12 |
| 2565.511 | TRAFFIC CONTROL SIGNAL SYSTEM | | SIG SYS | 1 | | 1 |
| 2565.601 | TRAFFIC CONTROL INTERCONNECTION A | | LUMP SUM | 1 | | 1 |
| 2565.601 | TRAFFIC CONTROL INTERCONNECTION B | | LUMP SUM | 1 | | 1 |
| 2571.502 | FURNISH AND PLANT SHADE TREE | | EACH | 5 | | 5 |
| 2573.530 | STORM DRAIN INLET PROTECTION | H | EACH | 20 | | 20 |
| 2574.525 | SELECT TOPSOIL BORROW | | CU YD | 5 | | 5 |
| 2575.505 | SODDING TYPE LAWN | I | SQ YD | 852 | | 852 |
| 2582.501 | PAVT MSSG (BIKER) POLY PREF | | EACH | 10 | | 10 |
| 2582.502 | 4" BROKEN LINE YELLOW-POLY PREF | | LIN FT | 1442 | | 1442 |
| 2582.502 | 4" SOLID LINE WHITE-POLY PREF | | LIN FT | 2601 | | 2601 |
| 2582.502 | 6" SOLID LINE WHITE-POLY PREF | | LIN FT | 2654 | | 2654 |

NOTES

- A INCLUDES PAVEMENT WITH CONCRETE BASE AND A.C. WEARING COURSE
B SUBGRADE EXCAVATION REPRESENTS TOTAL REMOVAL OF 500 CU YD PER CENTERLINE MILE IN ADDITION PER ENGINEERING REPORT FEB. 19, 2014
C REPRESENTS 2.5 LIN FT OF RECONSTRUCTION ON 6% OF SEWER & WATER MANHOLES TO REMAIN INPLACE
D ~~REPRESENTS 30% OF SEWER & WATER MANHOLES TO REMAIN INPLACE PLUS CASTING ASSEMBLY FOR NEW MANHOLES~~
E ~~REPRESENTS 6% OF SEWER & WATER MANHOLES TO REMAIN INPLACE.~~
F REPRESENTS 64% OF SEWER & WATER MANHOLES TO REMAIN INPLACE.
G DETOUR AND TEMPORARY CONSTRUCTION SIGNS, BARRICADES OR OTHER NECESSARY ITEMS
H INLET PROTECTION FOR TEMPORARY EROSION AND SEDIMENT CONTROL
I SODDING INCLUDES 4 INCHES OF TOPSOIL IN BOULEVARD AREA OR OTHERWISE NOTED
P PLAN QUANTITY

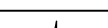
Add Note: FINAL DISPOSITION PER TRAFFIC

BASIS OF ESTIMATED QUANTITIES

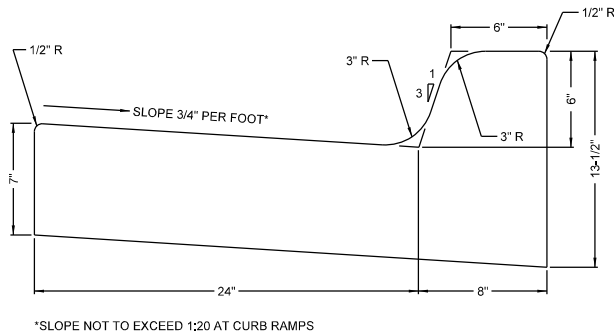
SAWED/SEALED JOINT REPRESENTS A RATIO OF 25 LIN FT PER 100 SQ YD OF BITUMINOUS SURFACE.
WATER COMPUTED AT 15 GAL/ SQ YD OF PAVEMENT.
AGGREGATE CLASS 5 UNDER SIDEWALKS AND DRIVEWAYS INCIDENTAL TO PAY ITEM.
WEARING COURSE MIXTURE COMPUTED AT 2.12 TON/ CU YD.
NON WEARING COURSE MIXTURES COMPUTED AT 2.00 TON/ CU YD.
BITUMINOUS MATERIAL FOR SEAL COAT COMPUTED AT 0.25 GAL/ SQ YD.
BITUMINOUS MATERIAL FOR TACK COAT COMPUTED AT 0.05 GAL/ SQ YD/ LAYER.
SEAL COAT AGGREGATE COMPUTED AT 22 LBS/ SQ YD.

All impacted MH castings to be removed and replaced

Change numbers to 2 OF 96

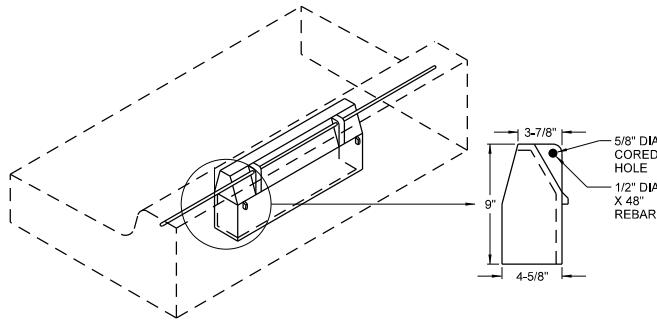
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|--|-----|------|-----|-----|-----|----------|---|---|----------|----------------|--|----------------------------|--|-----------------------------|
| | NO. | DATE | DRW | CKD | APP | REVISION | I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. <div><div></div><div>43843</div><div>BEVERLY JO WARMKA LIC. NO. DATE</div></div> | ESTIMATED QUANTITIES | | | | MINNEHAHA AVE 26TH TO 24TH | | <div>Q1 OF Q1</div> |
| | | | | | | | |  <div>MINNEAPOLIS DEPARTMENT OF PUBLIC WORKS</div> | DRW: JFN | DATE: 05/13/15 | L.P. 600D 6754 S.A.P. 141-191-009 | | | |
| | | | | | | | | | CHK: HRV | DATE: 05/13/15 | | | | |
| | | | | | | | | | APP: BJW | DATE: 05/13/15 | | | | |
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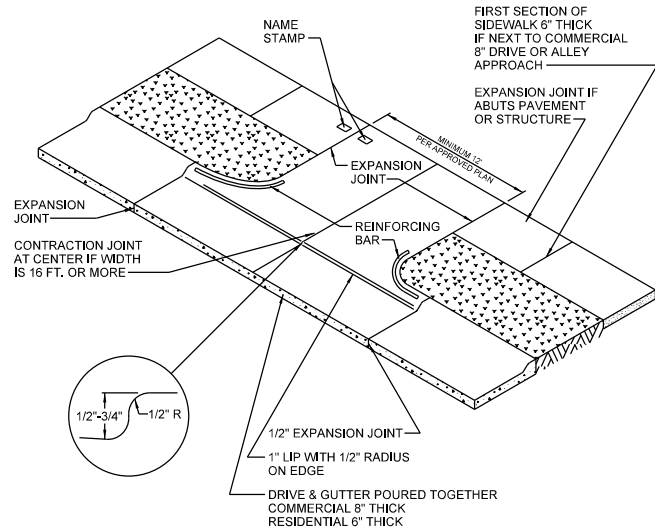
B-624 CURB AND GUTTER

ROAD-1003



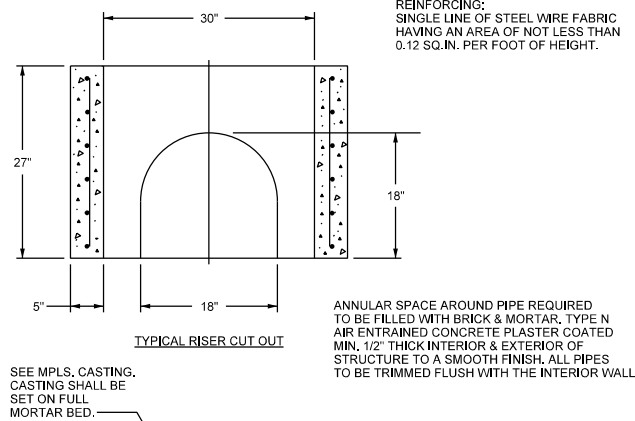
REINFORCING AT CURB OUTLET

ROAD-1009

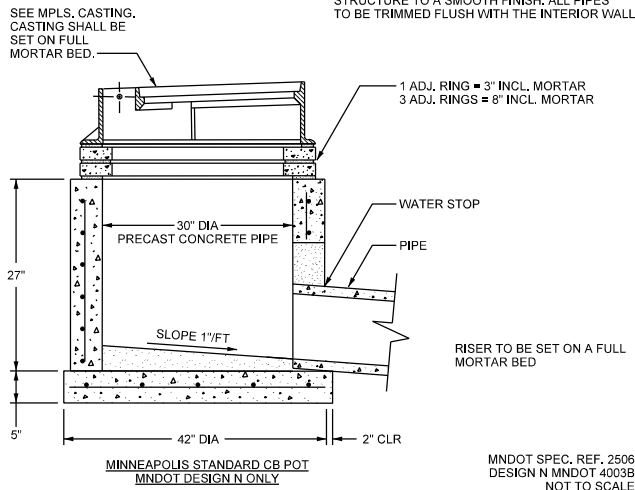


TYPICAL DRIVEWAY

ROAD-2002

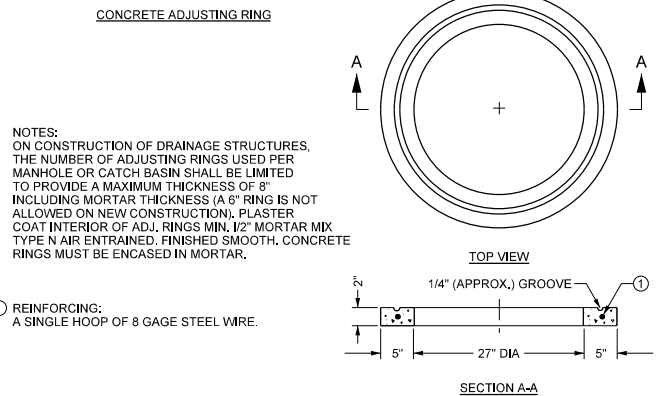


TYPICAL RISER CUT OUT

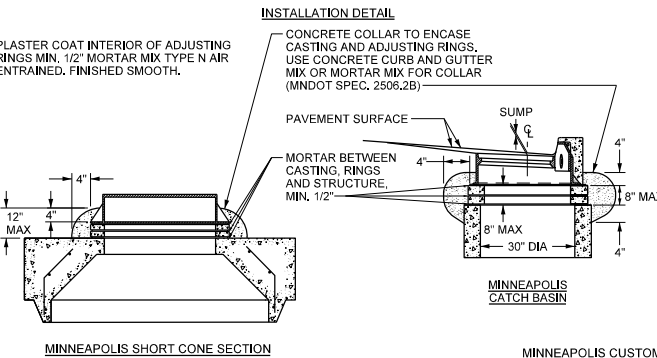


PRECAST CATCH BASIN POT

SEWR-1008-R1

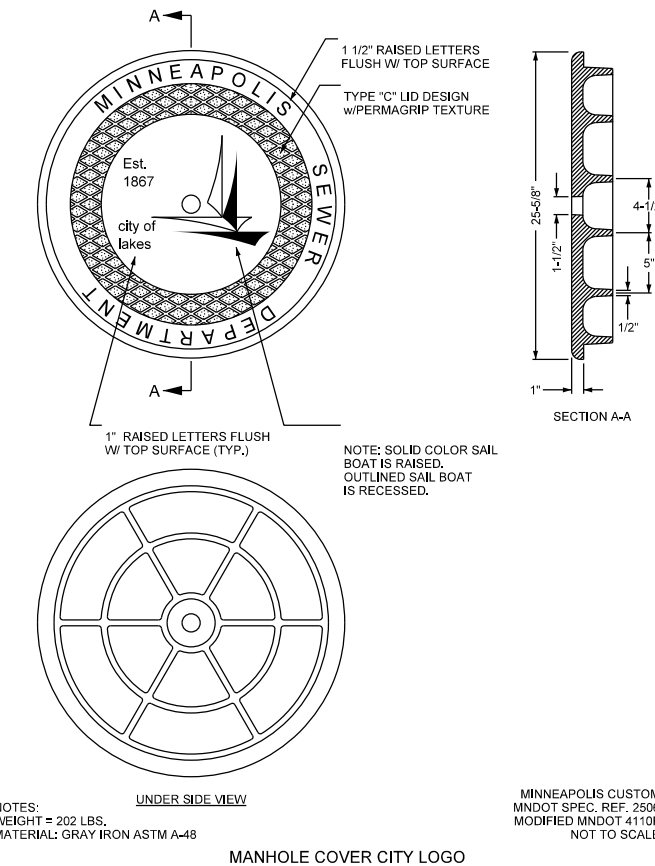


- ① REINFORCING:
A SINGLE HOOP OF 8 GAGE STEEL WIRE.



CONCRETE ADJUSTING RINGS

SEWR-1011-R1



MANHOLE COVER CITY LOGO

SEWR-2000

MNDOT STANDARD PLATE INDEX

| PLATE NO. | PLATE NAME |
|-----------|---|
| 1070M | SUPPLEMENTAL PAVEMENT REINFORCEMENTS |
| 1103K | TYPICAL DOWEL BAR ASSEMBLY (2 SHEETS) |
| 1150R | CONSTRUCTION OF HEADER JOINTS (2 SHEETS) |
| 3000L | REINFORCED CONCRETE PIPE (C WALL ONLY) (5 SHEETS) |
| 3006G | GASKET JOINT FOR R.C. PIPE (2 SHEETS) |
| 4000J | MANHOLE OR CATCH BASIN (MASONRY) |
| 4003B | 30" PRECAST CATCH BASIN (DESIGN N) |
| 4005M | MANHOLE OR CATCH BASIN (DESIGN F)* |
| 4010H | CONC. SHORT CONE & ADJUSTING RING (TYPE C ALTERNATE ONLY) |
| 4011E | PRECAST CONCRETE BASE |
| 4125D | CATCH BASIN FRAME CASTING |
| 4133A | CURB BOX CASTING FOR CATCH BASIN |
| 4154B | CATCH BASIN GRATE CASTING - CASTING NO. 816 |
| 7038A | DETECTABLE WARNING SURFACE - TRUNCATED DOMES |
| 7100H | CONCRETE CURB AND GUTTER (DESIGN B) |
| 7112C | INSTALLATION & REINFORCEMENT OF CATCH BASIN & MANHOLE CASTING |
| 8000I | STANDARD BARRICADES |
| 9322K | CHAIN LINK FENCE |

THESE STANDARD PLATES AS APPROVED BY THE F.H.W.A. SHALL APPLY

Use standard plates with borders from the Public Works Standard Specifications and Details web page.

Change numbers to 4 OF 96

NOT TO SCALE

| NO. | DATE | DRW | CKD | APP | REVISION |
|-----|------|-----|-----|-----|----------|
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I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

BEVERLY JO WARMKA

43843

LIC. NO.

DATE



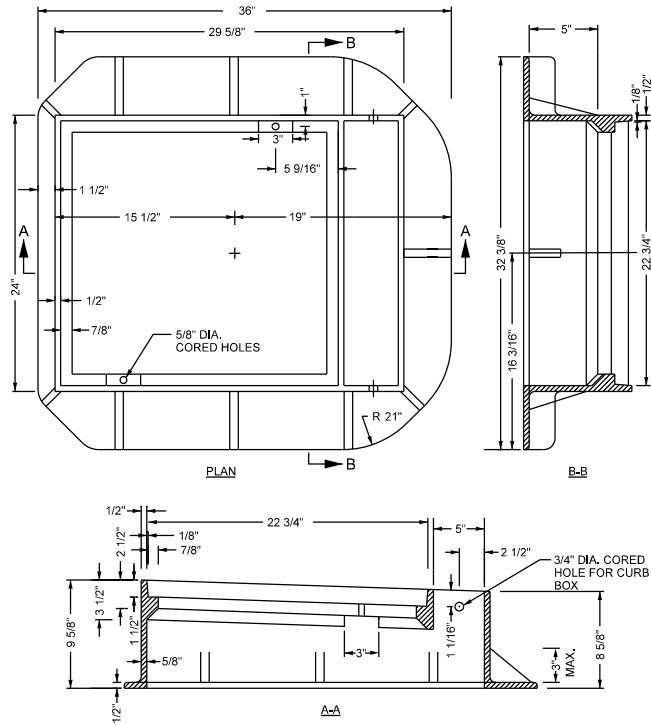
MINNEAPOLIS
DEPARTMENT OF
PUBLIC WORKS

| | |
|----------|----------------|
| DRW: JFN | DATE: 03/13/15 |
| CHK: HRV | DATE: 05/11/15 |
| APP: BJW | DATE: 05/12/15 |

MINNEHAHA AVE 26TH TO 24TH

L.P. 600D 6754 S.A.P. 141-191-009

D1
OF
D10

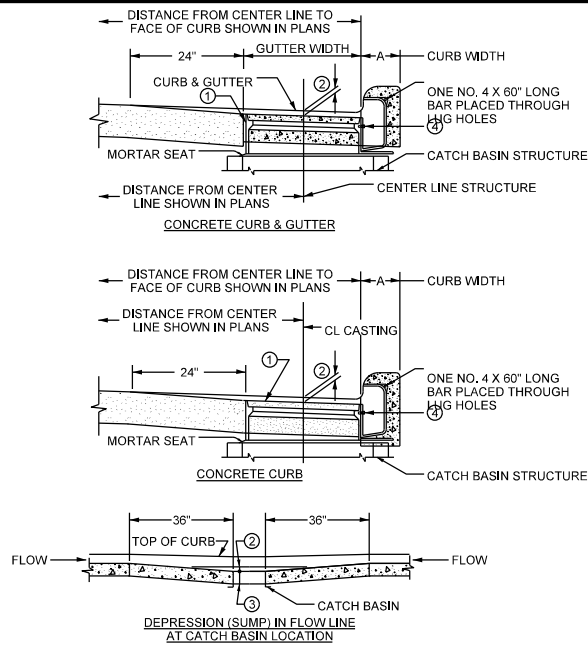


NOTES:
FOR USE WITH 30" DIA. REINFORCED CONCRETE CATCH BASIN POT.
MAY ALSO BE USED ON A MANHOLE STRUCTURE WHEN PLACED TO
CAPTURE GUTTER FLOWS.
MNDOT FRAME CASTING 806, USE GRATE 816, CURB BOX 824.
APPROXIMATE WEIGHT = 302 LBS.
MATERIAL: GRAY IRON ASTM A-48

MNDOT SPEC. REF. 2506
MNDOT 4125D
NOT TO SCALE

CATCH BASIN CASTING

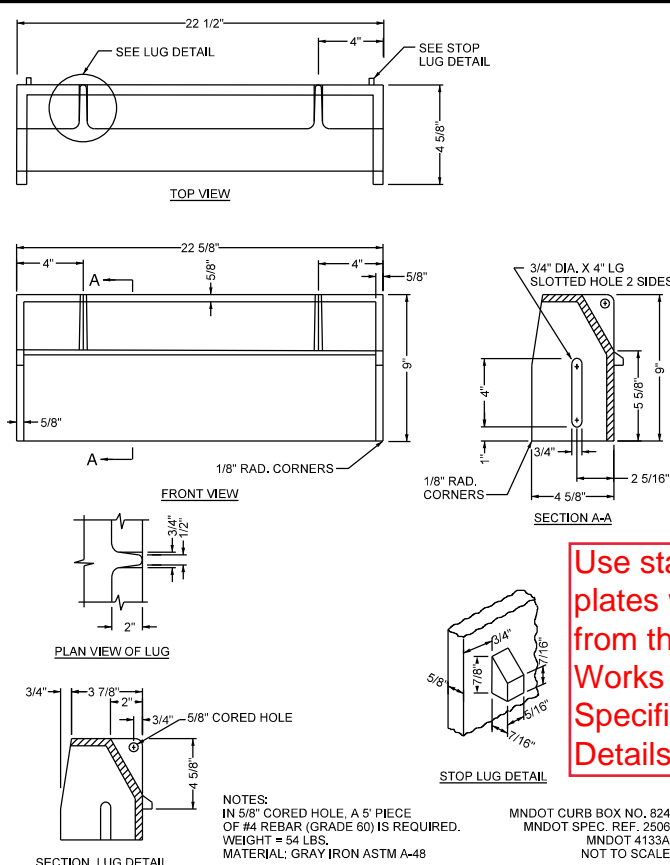
SEWR-2008



- NOTES:
① CATCH BASIN CASTING.
② ON ALL APPLICATIONS USE 1-1/4" SUMP.
SUMP SHALL BE MEASURED AT CENTER OF
CASTING.
③ SAME THICKNESS AS ADJACENT PAVEMENT OR
GUTTER.
④ CURB INLET CASTING SHALL BE FASTENED
TEMPORARILY TO FRAME CASTING WITH 2 CAP
SCREWS, DURING CURB CONSTRUCTION, CAP
SCREWS MUST BE REMOVED AFTER CURB HAS
HARDENED.
- COMPENSATE FOR TILT BY VARYING THE DEPTH
OF MORTAR SEAT.
ALL REINFORCEMENT REQUIRED IS INCIDENTAL.
WITH NO DIRECT PAYMENT.
ALL REBARS ARE IN ENGLISH DESIGNATIONS.
ALL REBARS ARE GRADE 60
- MNDOT SPEC. REF. 2506
MNDOT 7111J
NOT TO SCALE

CATCH BASIN INSTALLATION

SEWR-1009



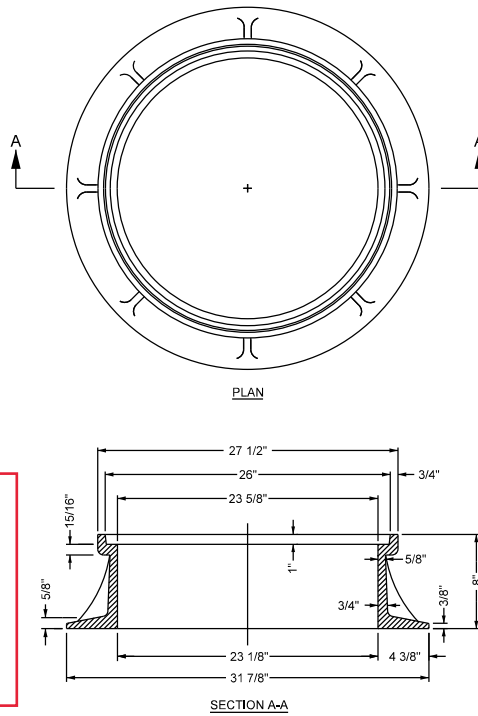
Use standard
plates with borders
from the Public
Works Standard
Specifications and
Details web page.

NOTES:
IN 5/8" CORED HOLE, A 5" PIECE
OF #4 REBAR (GRADE 60) IS REQUIRED.
WEIGHT = 54 LBS.
MATERIAL: GRAY IRON ASTM A-48

MNDOT CURB BOX NO. 824
MNDOT SPEC. REF. 2506
MNDOT 4133A
NOT TO SCALE

CURB BOX CASTING FOR CATCH BASIN

SEWR-2007

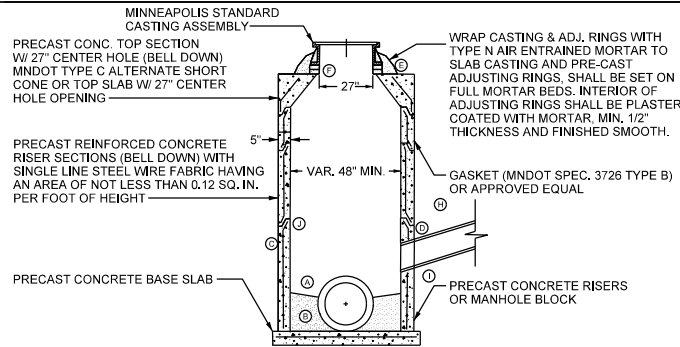


NOTES:
WEIGHT = 194 LBS.
MATERIAL: GRAY IRON ASTM A-48

MNNEAPOLIS CUSTOM
MNDOT SPEC. REF. 2506
MODIFIED MNDOT 4101D
NOT TO SCALE

STANDARD MANHOLE CASTING

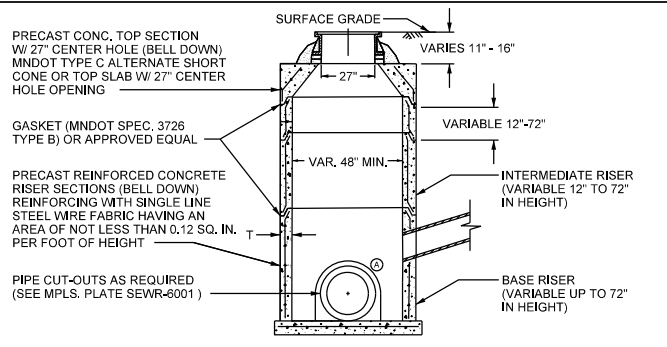
SEWR-2004



- FOLLOW MNDOT 2451.3-C - FOUNDATION PREPARATION AND COMPACTION REQUIREMENTS OF MNDOT
2105.3 F1 - SPECIFIED DENSITY METHOD (100% COMPACTION REQUIREMENTS OF STANDARD PRACTICE)
MNDOT DESIGN F, MODIFIED
CONTINUOUS INSIDE DIAMETER
USE MINNEAPOLIS SHORT CONE SECTION (MNDOT TYPE C ALTERNATE) OR TOP SLAB ONLY
- ① BOTTOM TO BE SHAPED 2/3 OF PIPE DIAMETER WITH POURED CONCRETE TO PROVIDE EFFICIENT FLOW.
② WHEN THE INVERT OF THE INLET PIPE IS BELOW THE SPRING LINE OF THE MAIN, THEN PROVIDE
CONCRETE "POWER FLOWS" FOR POSITIVE DOWN STREAM FLOW THROUGH MANHOLE.
③ PRE-CAST CONCRETE MANHOLE SECTIONS.
④ FILL AROUND INLET PIPE AND LIFTING HOLES WITH CEMENT MORTAR, TYPE N AIR ENTRAINED, FINISH
SMOOTH AS NECESSARY. ALL PIPES CONNECTING TO MH'S SHALL BE TRIMMED FLUSH TO THE INTERIOR
WALL OF THE MH STRUCTURE.
⑤ MANHOLE CASTING SHALL BE SET ON A FULL MORTAR BED, TYPE N AIR ENTRAINED
⑥ THE NUMBER OF CONCRETE ADJUSTING RINGS SHALL BE LIMITED TO PROVIDE A MAXIMUM THICKNESS OF
8" INCLUDING MORTAR, TYPE N AIR ENTRAINED WITH A MINIMUM OF 1 - 2" ADJUSTING RING.
ALL ADJUSTING RINGS TO BE NEATLY SEALED WITH CONCRETE GROUT, TYPE N AIR ENTRAINED, ON THE
INTERIOR OF THE STRUCTURE.
MINIMUM OF 2" OF ADJUSTING RINGS & MORTAR TYPE N AIR ENTRAINED REQUIRED.
ALL WOOD AND NON-CONCRETE ADJUSTING DEVICES SHALL BE REMOVED.
⑦ CONCRETE MANHOLE BLOCK MAY BE USED WITH THE APPROVAL OF CITY ENGINEER.
INTERIOR & EXTERIOR OF BLOCK WORK SHALL BE MORTAR PLASTERED, TYPE N AIR ENTRAINED, TO A
SMOOTH FINISH, MIN. 1/2" THICKNESS.
⑧ SUITABLE BACKFILL UNIFORMLY DISTRIBUTED IN 8" OR LESS LAYERS AND COMPACTED BEFORE
SUCCESSIVE LAYERS ARE ADDED. MNDOT 2451.3 D - BACKFILLING EXCAVATIONS, COMPACTION IN
ACCORDANCE WITH MNDOT 2105.3 F1 - SPECIFIED DENSITY METHOD.
⑨ FILL ANNUAL SPACE ON BELL END OF 1ST RISER SECTION WITH BRICK AND MORTAR, TYPE N AIR
ENTRAINED, IF REQUIRED.
⑩ WATER STOP REQUIRED ON PVC, DIP, VCP, HDPE, HOBAS, PPP.
- MINNEAPOLIS SHORT CONE SECTION SHALL BE USED UNLESS OTHERWISE SPECIFIED IN THE PLANS AND
PLASTER COATED WITH TYPE N AIR ENTRAINED MORTAR (TO A SMOOTH FINISH).
ALL PRE-CAST MH RISER SECTIONS SHALL BE CONFIGURED TO PLACE
THE BELL END DOWN.
- MNNEAPOLIS CUSTOM
MNDOT SPEC. REF. 2506
MODIFIED MNDOT 4000J, 4005L
NOT TO SCALE

TYPICAL MANHOLE CONSTRUCTION

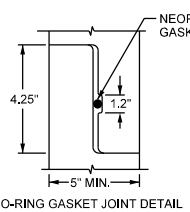
SEWR-1000-R1



- BASE RISER TO BE SET ON A FULL MORTAR BED, TYPE N AIR ENTRAINED MORTAR MIX.
FILL ANNUAL SPACE ON BELL END OF 1ST RISER SECTION WITH BRICK AND MORTAR,
TYPE N AIR ENTRAINED IF NEEDED.
- ① FILL AROUND INLET PIPE WITH CEMENT MORTAR, TYPE N AIR ENTRAINED, FINISH SMOOTH AS NECESSARY.
OVERSIZED HOLE (DOGHOUSE) FOR THE PIPE OPENING TO BE FIELD GROUTED.
MANHOLE BLOCK MAY BE SUBSTITUTED FOR PRECAST RISERS AT THE DISCRETION OF THE CITY
ENGINEER.

TYPICAL INTERMEDIATE RISER HEIGHTS

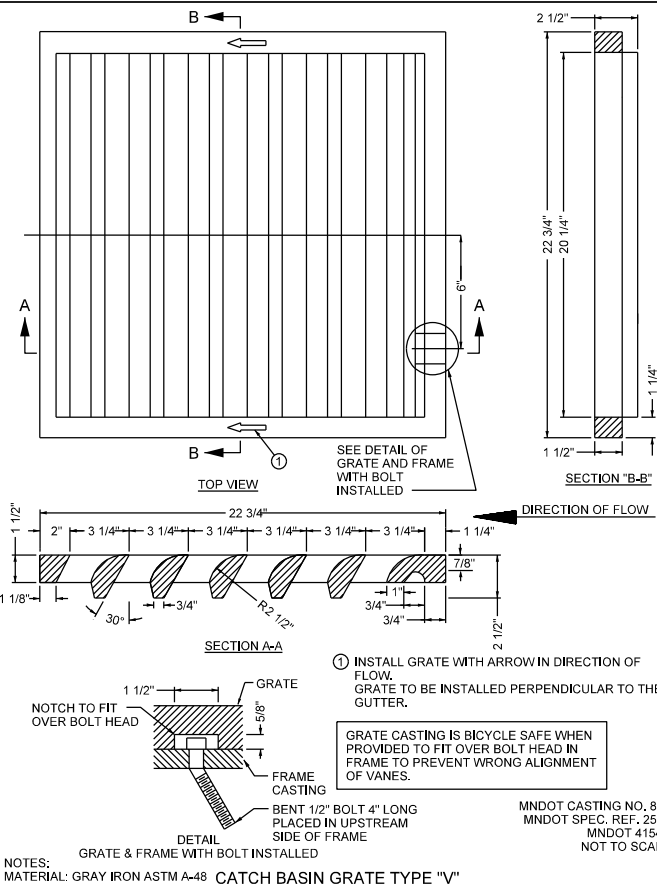
| PRE CAST RISERS | |
|------------------|-------------------|
| MH I.D. (in.) | WALL "T" (in.) |
| 48" | 5" |
| 54" | 6" |
| 60" | 6" |
| 72" | 7" |
| 78" | 8" |
| 84" | 8" |
| 92" | 8" |
| 96" | 9" |
| 106" | 8" |
| 108" | 10" |
| 120" | 11" |
| 132" | 12" |



MNNEAPOLIS CUSTOM
MNDOT SPEC. REF. 2506
MODIFIED MNDOT 4005L
NOT TO SCALE

PRECAST RISER SECTIONS

SEWR-1001-R1



- ① INSTALL GRATE WITH ARROW IN DIRECTION OF
FLOW. GRATE TO BE INSTALLED PERPENDICULAR TO THE
GUTTER.
- GRATE CASTING IS BICYCLE SAFE WHEN
PROVIDED TO FIT OVER BOLT HEAD IN
FRAME TO PREVENT WRONG ALIGNMENT
OF VANES.
- MNDOT CASTING NO. 816
MNDOT SPEC. REF. 2506
MNDOT 4154B
NOT TO SCALE

NOTES:
MATERIAL: GRAY IRON ASTM A-48 CATCH BASIN GRATE TYPE "V"

SEWR-2008

DETAILS AND STANDARD PLATES



MINNEAPOLIS
DEPARTMENT OF
PUBLIC WORKS

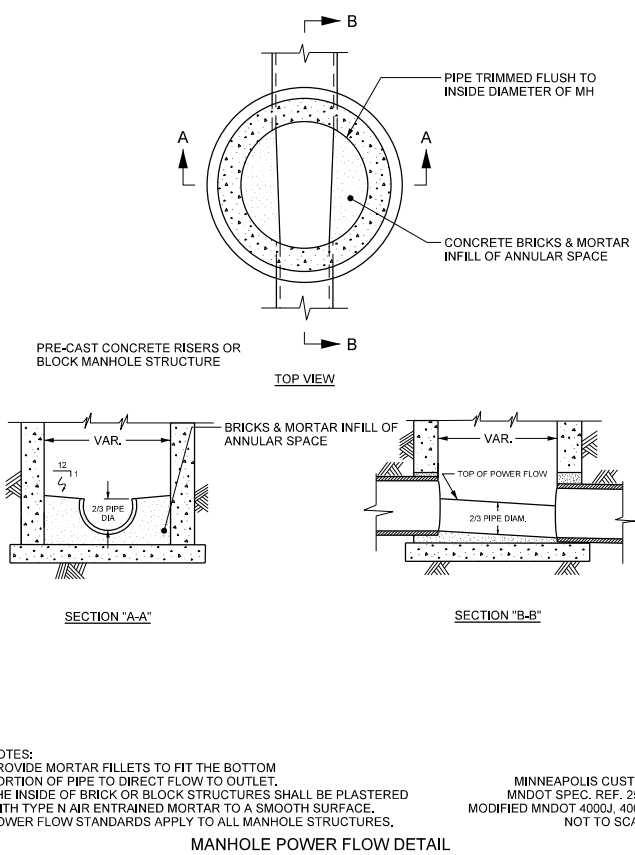
DRW: MMA
CHK: HRV
APP: BJW

DATE: 02/18/15
DATE: 02/18/15
DATE:

MINNEHAHA AVE 26TH TO 24TH

L.P. 600D 6754 S.A.P. 141-191-009

FILE NAME = 6754-DETAIL-003.dgn
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SEVR-1002

| TYPE II (ROADWAY LOADING) | | | | | |
|---------------------------|---------------------|-----------------------|-----------|-----------|-------------------|
| MH I.D. (In.) | TOP SLAB O.D. (In.) | WEIGHT OF SLAB (lbs.) | "T" (In.) | "A" (In.) | BOTTOM BARS (In.) |
| 48 | 58 | 1140 | 6 | 6 | #5 AT 6 |
| 54 | 65 | 2000 | 8 | 6 | #5 AT 6 |
| 60 | 72 | 2525 | 8 | 7 | #5 AT 4 |
| 66 | 79 | 3105 | 8 | 7 | #5 AT 4 |
| 72 | 86 | 3740 | 8 | 8 | #5 AT 4 |
| 78 | 93 | 4403 | 8 | 8 | #5 AT 4 |
| 84 | 100 | 5140 | 8 | 9 | #5 AT 4 |
| 90 | 106 | 5840 | 8 | 9 | #5 AT 4 |
| 96 | 113 | 6680 | 8 | 9 | #5 AT 4 |
| 102 | 119 | 7450 | 8 | 9 | #5 AT 4 |

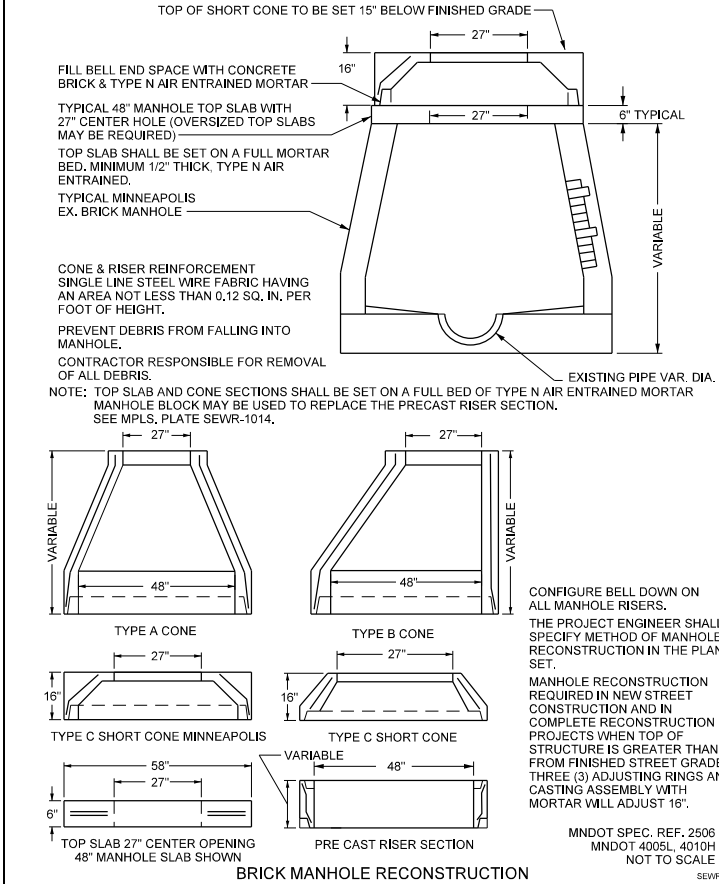
MPLS. STD. MH ALTERNATE

NOTES:
EXTRA BOTTOM BARS PLACED ADJACENT TO ACCESS HOLE.
MINIMUM 1 1/2" COVER ON STEEL BARS.
THREE LIFTING CABLES PLACED AT 120 DEGREES ON 60" COVERS AND LARGER. TWO HOOKS USED ON COVERS SMALLER THAN 60" UNLESS SPECIFIED.
TYPE II COVERS CAPABLE OF CARRYING A 9000 LB. WHEEL LOAD.
ALL REBARS ARE IN ENGLISH DESIGNATIONS.
PROVIDE FULL MORTAR BED.
MINNEAPOLIS STANDARD TOP SLAB IS A 27" CENTER HOLE TOP SLAB.

27" OFFSET MANHOLE TOP SLAB ALTERNATE

MNDOT SPEC. REF. 2506
NOT TO SCALE

SEVR-1015



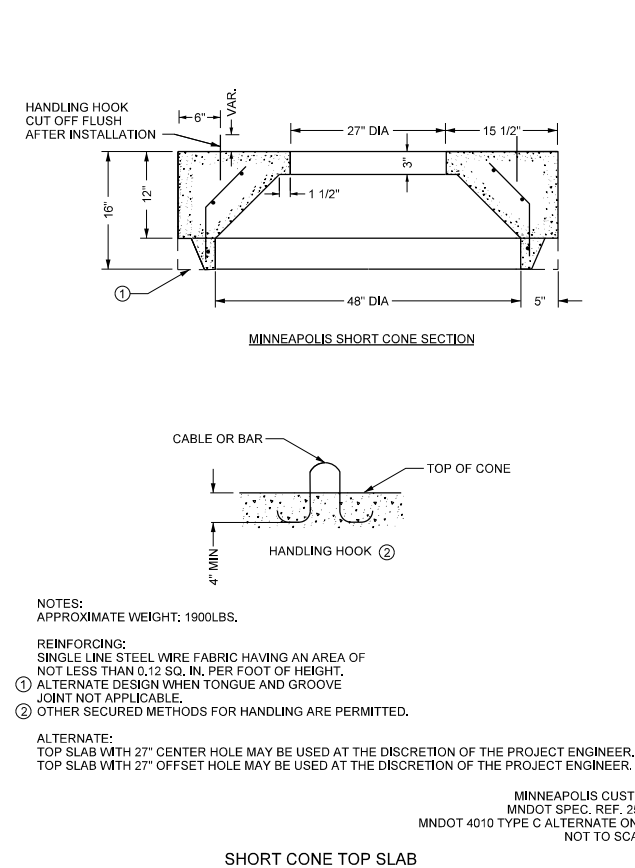
| STRUCTURE SIZE (In.) | OUTSIDE DIA. (In.) | "T" (In.) | PRECAST CONCRETE BASE MIN. REINFORCEMENT (In.) | | WT. (lbs.) |
|----------------------|--------------------|-----------|--|---------------|------------|
| | | | BAR NUMBER | SPACING (In.) | |
| 30 | 44 | 6 | #4 | 12 | 1680 |
| 48 | 66 | 6 | #4 | 12 | 1680 |
| 60 | 78 | 8 | #4 | 12 | 3320 |
| 72 | 92 | 8 | #4 | 12 | 4620 |
| 84 | 106 | 8 | #4 | 8 | 6130 |
| 96 | 120 | 8 | #4 | 8 | 7850 |
| 108 | 132 | 10 | #4 | 8 | 10690 |
| 120 | 146 | 12 | #4 | 8 | 17440 |

ALL REBARS ARE IN ENGLISH DESIGNATIONS

MANHOLE BASE SLAB

MNDOT SPEC. REF. 2506
MNDOT 4011E
NOT TO SCALE

SEVR-1003



| TYPE II (ROADWAY LOADING) | | | | | |
|---------------------------|---------------------|-----------------------|-----------|-----------|-------------------|
| MH DIA. (In.) | TOP SLAB O.D. (In.) | WEIGHT OF SLAB (lbs.) | "T" (In.) | "A" (In.) | BOTTOM BARS (In.) |
| 48 | 58 | 1140 | 6 | 6 | #5 AT 6 |
| 54 | 65 | 2000 | 8 | 6 | #5 AT 6 |
| 60 | 72 | 2525 | 8 | 7 | #5 AT 4 |
| 66 | 79 | 3105 | 8 | 7 | #5 AT 4 |
| 72 | 86 | 3740 | 8 | 8 | #5 AT 4 |
| 78 | 93 | 4403 | 8 | 8 | #5 AT 4 |
| 84 | 100 | 5140 | 8 | 9 | #5 AT 4 |
| 90 | 106 | 5840 | 8 | 9 | #5 AT 4 |
| 96 | 113 | 6680 | 8 | 9 | #5 AT 4 |
| 102 | 119 | 7450 | 8 | 9 | #5 AT 4 |

MPLS. STD. MH ALTERNATE

MINNEAPOLIS CUSTOM
MNDOT SPEC. REF. 2506
MODIFIED MNDOT 4020I
NOT TO SCALE

27" CENTER HOLE MANHOLE TOP SLAB

SEVR-1005

| CASTING ASSEMBLY SUMMARY | | | | | | |
|--------------------------|----------------------|-----------------------|----------|--------------------|-------------------|------------|
| ASSEMBLY | RING / FRAME CASTING | COVER / GRATE CASTING | CURB BOX | STANDARD PLATE NO. | PROPOSED QUANTITY | REMARKS |
| B-13 | 806 | | | 4125 | 11 | CATCHBASIN |
| | | 816 | | 4154 | | |
| | | | 824 | 4133 | | |
| A-8D | MPLS STANDARD | | | | 1 | MANHOLE |
| | | MPLS STANDARD | | | | |

| REBAR SUMMARY | | | | | | | | |
|------------------------------|------|----------|-------|--------|---------|--------|------------|-----|
| DESCRIPTION | EACH | ESTIMATE | REBAR | | | | TOTAL (FT) | |
| | | | SIZE | LENGTH | SPACING | No REQ | FT | LB |
| DRIVEWAY RADII | EACH | 16 | #4 | 7 | | 2 | 224 | 150 |
| CATCH BASIN IN CONCRETE CURB | EACH | 11 | #4 | 4 | | 1 | 44 | 29 |
| TOTAL REBAR | | | | | | | 268 | 179 |


Use standard plates with borders from the Public Works Standard Specifications and Details web page.

Change numbers to 6 OF 96

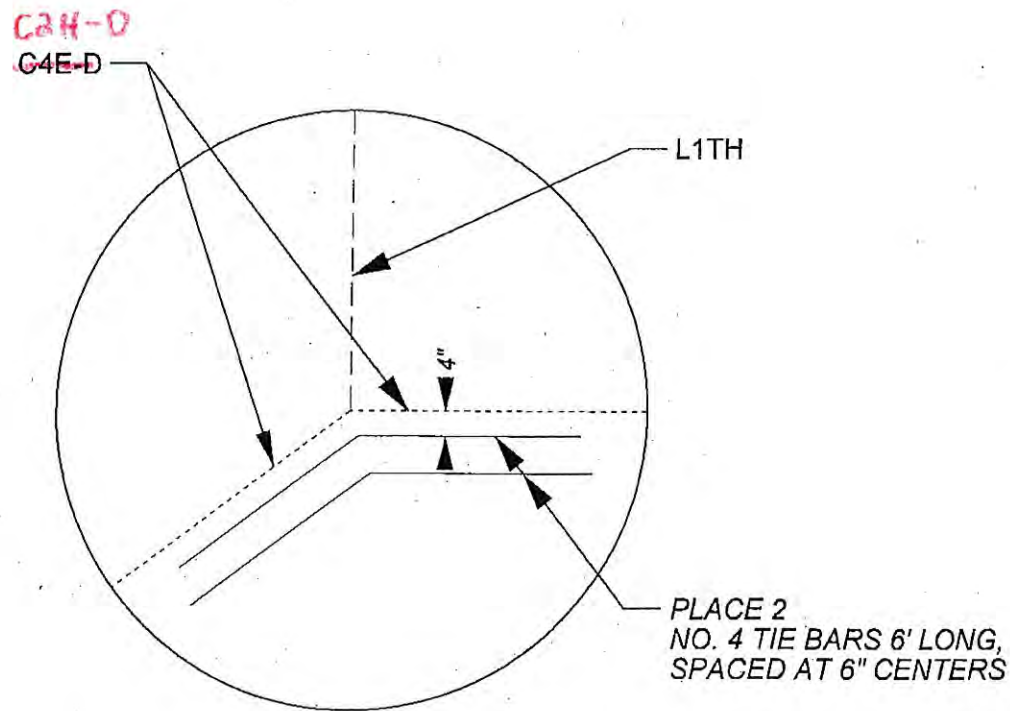
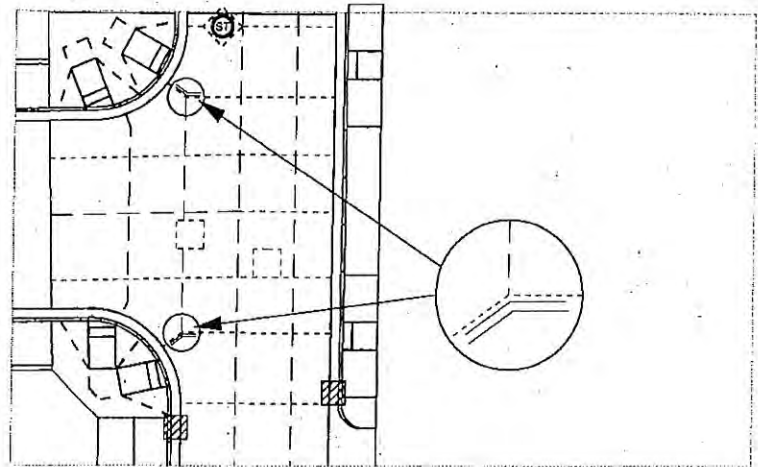
| NOT TO SCALE | NO. | DATE | DRW | CKD | APP | REVISION |
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BEVERLY JO WARMKA
43843
LIC. NO. DATE

| DETAILS AND STANDARD PLATES | | | | MINNEHAHA AVE 26TH TO 24TH | | D3 OF D10 |
|---|--|----------|----------------|----------------------------|--------------------|-----------------|
|  Minneapolis City of Lakes | MINNEAPOLIS DEPARTMENT OF PUBLIC WORKS | DRW: MMA | DATE: 02/18/15 | L.P. 600D 6754 | S.A.P. 141-191-009 | |
| | | CHK: HRV | DATE: 02/18/15 | | | |
| | | APP: BJW | DATE: | | | |

CONCRETE PAVEMENT JOINT DETAIL



REBAR SUMMARY

| DESCRIPTION | UNIT | ESTIMATE | REBAR | | | SUBTOTAL (FT) | | REMARKS |
|---|------|----------|-------|-----|-------------|---------------|------|----------|
| | | | NO. | BAR | LENGTH (FT) | # 4 | # 5 | |
| DRIVEWAY RADII | EACH | 18 | # 4 | 2 | 7.0 | 252 | | BENT |
| CATCH BASIN IN CONCRETE CURB B624 & INTEG | EACH | 12 | # 4 | 1 | 5.0 | 60 | | STRAIGHT |
| CATCH BASIN IN CONCRETE CURB D424 | EACH | 2 | # 4 | 3 | 5.0 | 30 | | STRAIGHT |
| CATCH BASIN IN CONCRETE PAVEMENT | EACH | 14 | # 5 | 6 | 6.0 | | 504 | STRAIGHT |
| MANHOLE IN CONCRETE PAVEMENT | EACH | 23 | # 5 | 8 | 6.0 | | 1104 | STRAIGHT |
| MANHOLE IN EDGE OF CONCRETE PAVEMENT | EACH | 2 | # 5 | 10 | 6.0 | | 60 | STRAIGHT |
| TIE BARS AT THE END OF L1TH | EACH | 3 | # 4 | 2 | 6.0 | 36 | | BENT |
| TIE BARS AT THE END OF L1TH | EACH | 1 | # 4 | 2 | 6.0 | 12 | | STRAIGHT |
| TOTAL (FT) | | | | | | 390 | 1668 | |

NOT TO BE INCLUDED WITH EST. QUANTITIES

CONCRETE PAVEMENT JOINT REBAR

| JOINT | | REBARS | | | | |
|------------------|-------------|--------|--------------|--------------|------|------------------------|
| TYPE | LENGTH (FT) | NO | LENGTH | SPACING (FT) | EACH | REMARKS |
| PERMANENT HEADER | 305 | # 7 | 5' | 1.5 | 203 | TIE BARS |
| L1TH | 5399 | # 4 | 2' 6" | 2.5 | 2160 | TIE BARS |
| C4E-D C2H-D | 3278 | 1.25 | 1' 3" (TYP) | 1.0 | 3278 | DOWELS DIAMETER 1-1/4" |

NOT TO BE INCLUDED WITH EST. QUANTITIES

CASTING ASSEMBLY SUMMARY

| ASSEMBLY | RING/FRA CASTING | COVER/GRATE CASTING | CURB BOX | STANDARD PLATE NO. | QUANTITY | | REMARKS |
|----------|---------------------|------------------------|----------|-----------------------|---------------|----------|-------------|
| | | | | | 36% OF ADJUST | PROPOSED | |
| B-13 | 806 | | | 4125 | | 16 | CATCH BASIN |
| | | 816 | | 4154 | | | |
| | | | 824 | 4133 | | | |
| A-8D | MPLS STANDARD | | | | | 2 | MANHOLE |
| | | MPLS STANDARD | | | 9 | | |

Change numbers
to 7 OF 96

NOT TO SCALE

| NO. | DATE | DRW | CKD | APP | REVISION |
|-----|------|-----|-----|-----|----------|
| 1 | | | | | |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |

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Beverly Jo Warmka
BEVERLY JO WARMKA
43843
LIC. NO.
10/21/11
DATE

DETAILS AND STANDARD PLATES

DRW: MGW
CHK: JMK
APP: BJW

DATE: 03/07/11
DATE: 10/13/11
DATE: 10/31/11

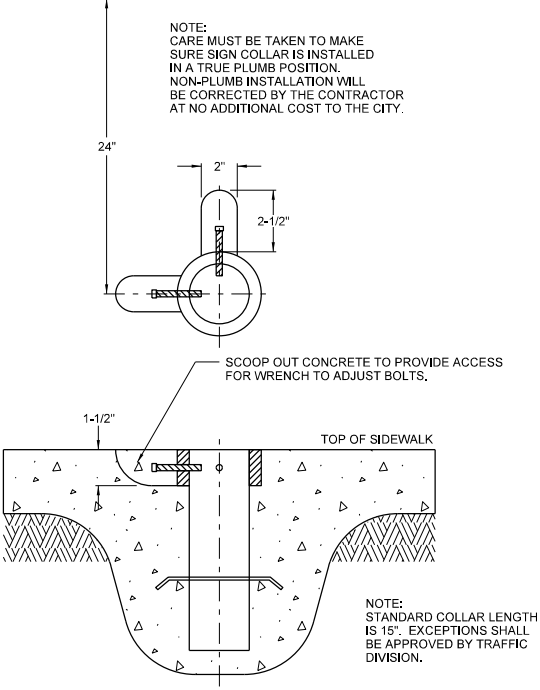
TALMAGE & 33RD AVE SE

L.P. 600D 2225
S.A.P. 141-444-01

8
OF
61

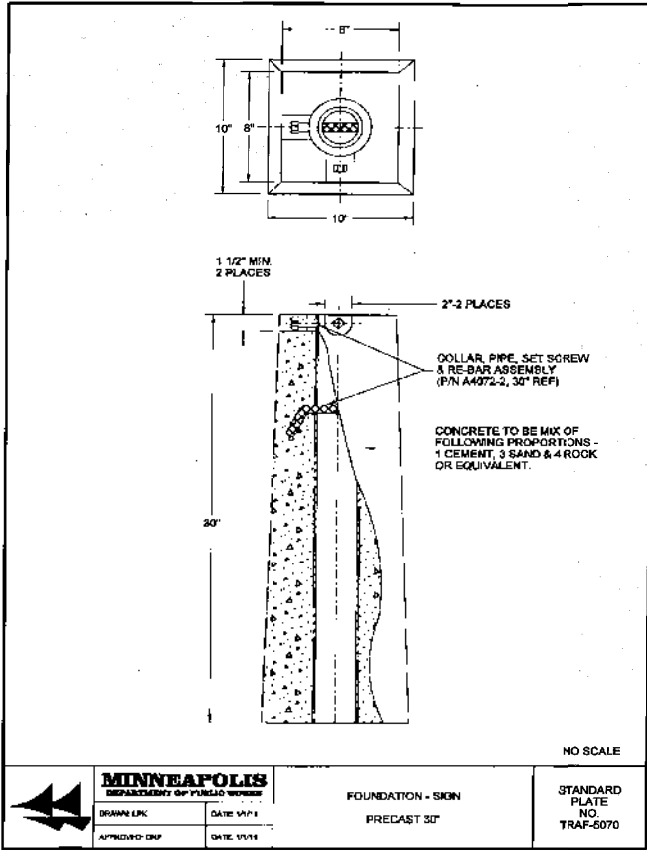
TRAFFIC DIRECTION →

FACE OF CURB



SIGN COLLAR REPLACEMENT

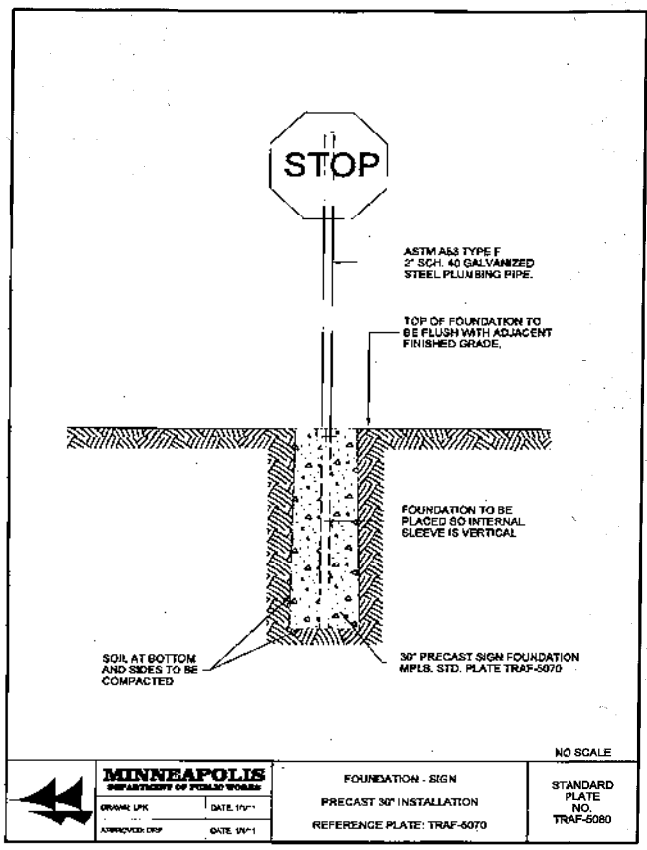
ROAD-4001



FOUNDATION - SIGN
PRECAST 30"

NO SCALE

STANDARD
PLATE
NO.
TRAF-5070



FOUNDATION - SIGN
PRECAST 30" INSTALLATION
REFERENCE PLATE: TRAF-5070

NO SCALE

STANDARD
PLATE
NO.
TRAF-5080

SPECIFICATION NOTES:
ALL P.V.C. PIPE SHALL MEET OR EXCEED ASTM D 1784 AND ASTM D 2241, AASHTO M 278, CLASS PF 50, P.V.C., SDR-26; ASTM D 3034, TYPE PSM P.V.C., SEWER PIPE, SDR 26 ASTM 758, SMOOTH WALL P.V.C., TYPE PS 46. ALL SANITARY CONNECTIONS LESS THAN 10" DIAMETER SHALL BE SCH 40 AND CLEANED WITH PROPER PRIMER AS DEFINED IN THE RESPECTIVE ASTM SPECIFICATION FOR SOLVENT JOINTS AND ALL JOINTS SHALL BE SOLVENT CEMENTED JOINTS WITH PROPER ASTM APPROVED CEMENTS. ALL SANITARY CONNECTIONS 10" DIAMETER OR GREATER SHALL BE SDR-26 OR GREATER WITH COMPRESSION FITTINGS MEETING ASTM STANDARDS. ALL MAINLINE SANITARY SEWERS SHALL BE VITRIFIED CLAY PIPE (VCP) UNLESS APPROVED BY CITY ENGINEER TO SUBSTITUTE PVC. SANITARY MAINS CONSTRUCTED OF PVC MATERIALS SHALL BE SDR-26 OR GREATER.

STORM DRAIN ONLY
SDR-35 MAY BE SPECIFIED FOR CITY CB RUNS ONLY, AT THE DISCRETION OF THE CITY PROJECT ENGINEER. ALL STORM DRAIN MAIN LINES SHALL BE REINFORCED CONCRETE MATERIALS WHERE POSSIBLE. PVC STORM DRAINS SHALL BE PRE APPROVED BY THE SEWER MAINTENANCE ENGINEER.

ALL DIMENSIONS BELOW ARE VARIABLE BY MANUFACTURER
ALL PVC SHALL BE CONSTRUCTED FROM NEW MATERIALS

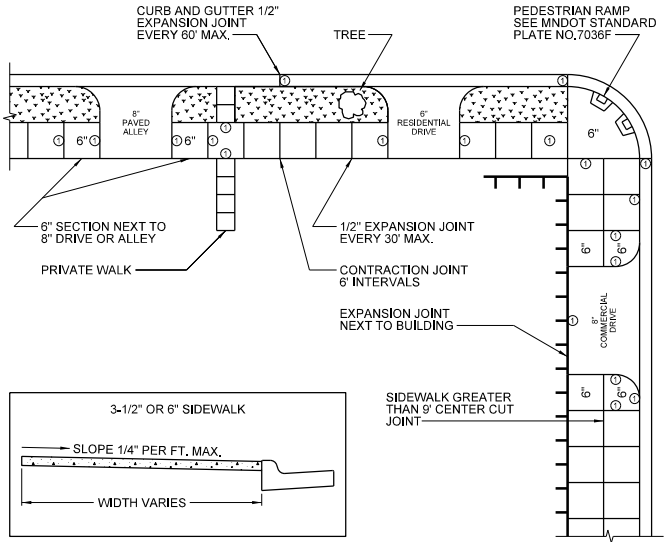
| NOMINAL PIPE SIZE | P.V.C. PIPE SYSTEM O.D. | AVERAGE I.D. | | | WALL THICKNESS | | | WEIGHT | | | MAX W.P. (PSI) | | |
|-------------------|-------------------------|--------------|--------|--------|----------------|-------|--------|--------|--------|--------|----------------|-----|--------|
| | | 40 | 80 | SDR 26 | 40 | 80 | SDR 26 | 40 | 80 | SDR 26 | 40 | 80 | SDR 26 |
| 4" | 4,500 | 3,998 | 3,786 | 4,134 | 0.237 | 0.337 | 0.173 | 2,006 | 2,782 | 1,569 | 220 | 320 | 160 |
| 5" | 5,563 | 5,017 | 4,767 | 5,108 | 0.258 | 0.375 | 0.214 | 2,726 | 3,867 | 2,411 | 190 | 290 | 160 |
| 6" | 6,625 | 6,031 | 5,709 | 6,084 | 0.280 | 0.432 | 0.255 | 3,535 | 5,313 | 3,414 | 180 | 280 | 160 |
| 8" | 8,625 | 7,943 | 7,565 | 7,921 | 0.322 | 0.500 | 0.332 | 5,305 | 8,058 | 5,784 | 160 | 250 | 160 |
| 10" | 10,750 | 9,976 | 9,492 | 9,874 | 0.365 | 0.593 | 0.413 | 7,532 | 11,956 | 8,971 | 140 | 230 | 160 |
| 12" | 12,750 | 11,890 | 11,294 | 11,711 | 0.406 | 0.687 | 0.490 | 9,949 | 16,437 | 12,620 | 130 | 230 | 160 |
| 14" | 14,000 | 13,072 | 12,410 | 12,860 | 0.437 | 0.750 | 0.538 | 11,810 | 19,790 | 15,205 | 130 | 220 | 160 |
| 16" | 16,000 | 14,940 | 14,214 | 14,696 | 0.500 | 0.843 | 0.615 | 15,416 | 25,430 | 19,877 | 130 | 220 | 160 |
| 18" | 18,000 | 16,809 | 16,014 | 16,533 | 0.562 | 0.937 | 0.692 | 20,112 | 31,830 | 25,156 | 130 | 220 | 160 |
| 20" | 20,000 | 18,743 | 17,814 | 18,370 | 0.593 | 1.031 | 0.769 | 23,624 | 40,091 | 31,057 | 120 | 220 | 160 |
| 24" | 24,000 | 22,544 | 21,418 | 22,043 | 0.687 | 1,218 | 0.923 | 32,873 | 56,882 | 44,744 | 120 | 210 | 160 |

DIMENSIONS ARE IN INCHES.
WEIGHTS ARE IN POUNDS PER FT.
MINIMUM COVER ON PIPE IS 18". LESS THAN 18" USE DUCTILE IRON PIPE CLASS 52 OR EQUIVALENT.
ALTERNATE PIPE MATERIAL FOR MAINLINE CONSTRUCTION.

MNDOT SPEC. REF. 3245
NOT TO SCALE

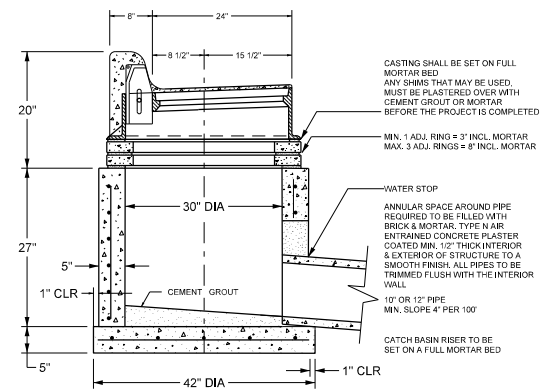
PVC PIPE STANDARDS

SEWR-4015



TYPICAL SIDEWALK AND DRIVEWAY CONSTRUCTION

ROAD-2003



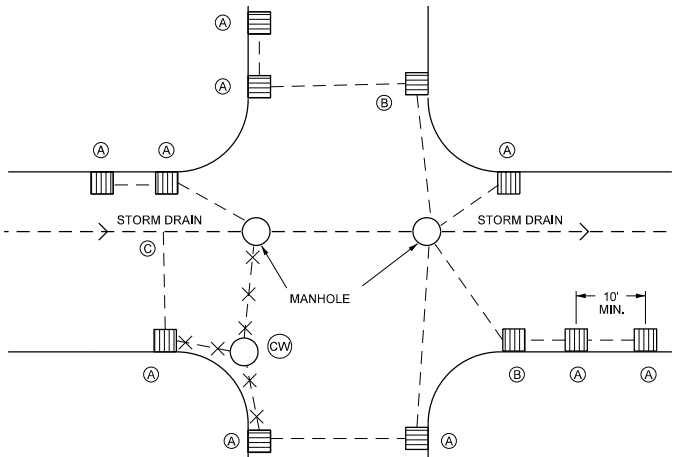
TYPICAL CATCH BASIN CONSTRUCTION, MINNEAPOLIS STANDARD

SEWR PLATE REFERENCES:
SEWR-1003
SEWR-1008-R1
SEWR-1009
SEWR-1010
SEWR-1011-R1
SEWR-2006
SEWR-2007
SEWR-2008
SEWR-3000
SEWR-3001

MNDOT SPEC. REF. 2506
DESIGN N MNDOT 4003B
NOT TO SCALE

STANDARD CATCH BASIN CONSTRUCTION

SEWR-1017



- A 30" I.D. CATCH BASIN.
- B 48" I.D. CATCH BASIN / MANHOLE, REQUIRED FOR CB'S WITH 3 OR MORE CONNECTED TOGETHER.
- C A SINGLE CB MAY BE CORE DRILLED INTO A 42" OR LARGER STORM DRAIN, ALTHOUGH A MANHOLE STRUCTURE IS PREFERRED.
- CW ELIMINATE CENTER WELLS IN ALL NEW CONSTRUCTION. NEW CONNECTIONS TO CENTERWELLS PROHIBITED.

ALL PRIVATE CONNECTIONS WILL CONNECT TO MANHOLES ONLY.
DOWNTOWN LOOP AREA MINIMUM PIPE SIZE IS 12". PIPE SIZE TO BE DETERMINED BY ENGINEER.
RESIDENTIAL AREAS MINIMUM PIPE SIZE IS 10". PIPE SIZE TO BE DETERMINED BY ENGINEER.
VERTICAL BENDS AND SIPHONS PROHIBITED, 90 DEGREE HORIZONTAL BENDS PROHIBITED.
FOR CB RUNS GREATER THAN 65' IN LENGTH, MINIMUM PIPE SIZE IS 12".
PROVIDE AN ADDITIONAL MANHOLE WHEN THERE ARE MORE THAN 4 CB RUNS TO A MANHOLE.
TYPICAL CB PLACEMENT IS 2.5' FROM THE END OF RADIUS TO THE CENTER OF STRUCTURE.

NOT TO SCALE

DETAILS AND STANDARD PLATES

MINNEHAHA AVE 26TH TO 24TH

NOT TO SCALE

| NO. | DATE | DRW | CKD | APP | REVISION |
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BEVERLY JO WARMKA

43843

LIC. NO.

DATE



MINNEAPOLIS
DEPARTMENT OF
PUBLIC WORKS

| | |
|----------|----------------|
| DRW: MMA | DATE: 02/18/15 |
| CHK: HRV | DATE: 02/18/15 |
| APP: BJW | DATE: |

L.P. 600D 6754 S.A.P. 141-191-009

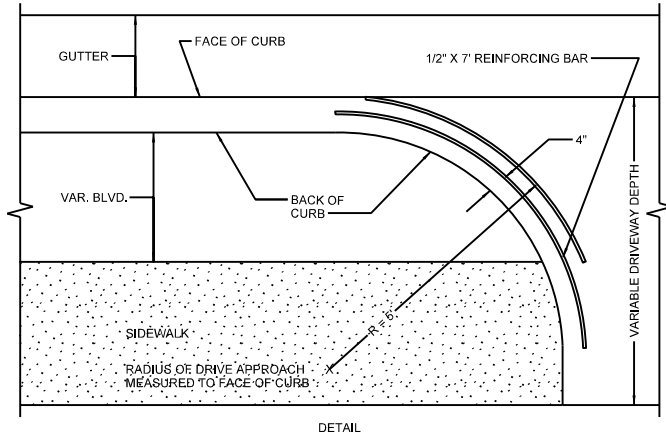
D4
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Change numbers
to 8 OF 96

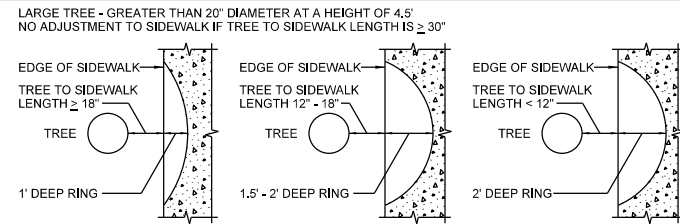
Use standard
plates with borders
from the Public
Works Standard
Specifications and
Details web page.

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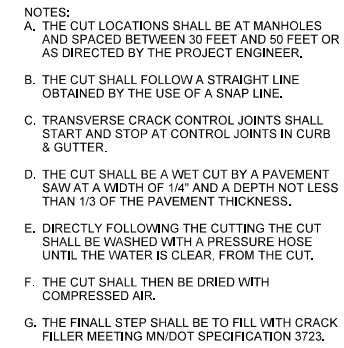
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ROAD-2001



- ROAD-4005



ROAD-5000



Diagram illustrating the cross-section of a boulevard structure. The layers shown are:

- CURB & GUTTER
- SOD BOULEVARD
- CONC. SIDEWALK

Labels and dimensions include:

- TREE SPACING SEE PLAN FOR LOCATION
- VARIES BLVD
- 8' TYP.
- SELECT TOP SOIL
- 8' TYP.

DATE _____

DATE:

L.P. 600D 6754 S.A.P. 141-191-009

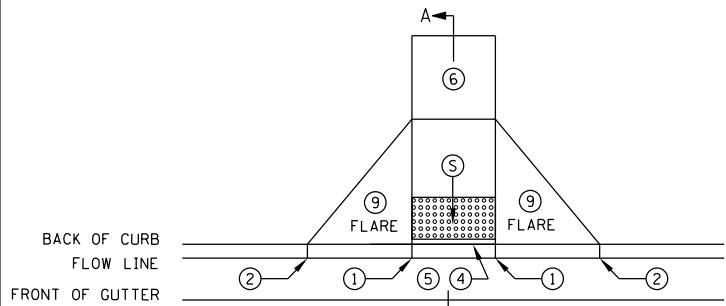
05
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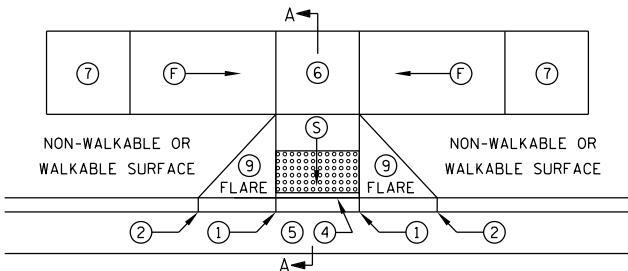
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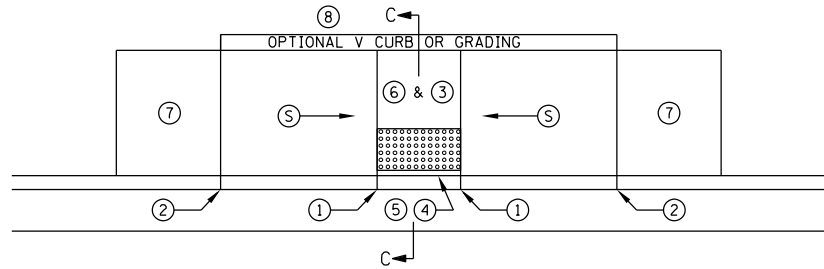
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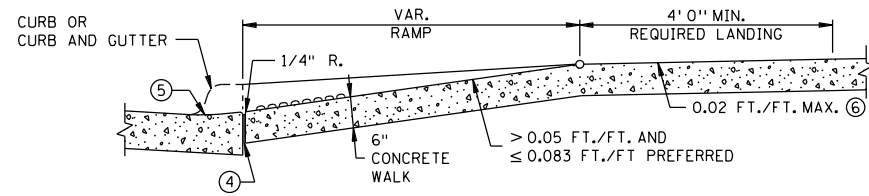
PERPENDICULAR



TIERED PERPENDICULAR

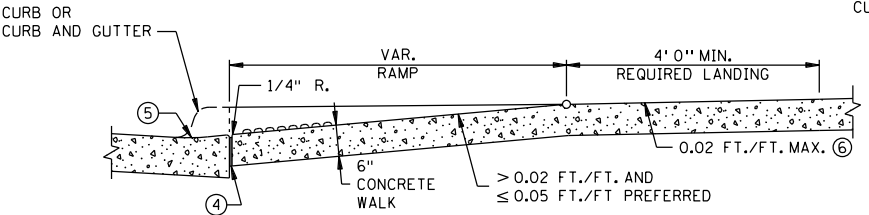


PARALLEL



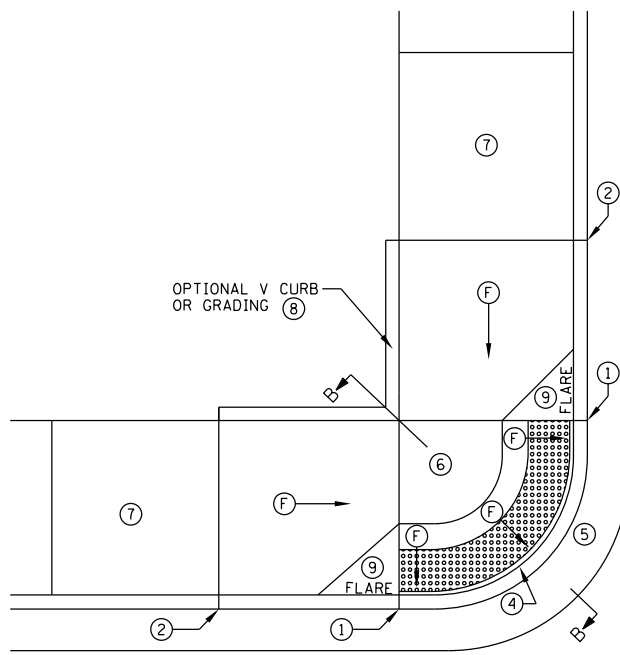
SECTION A-A

PERPENDICULAR/TIERED/DIAGONAL

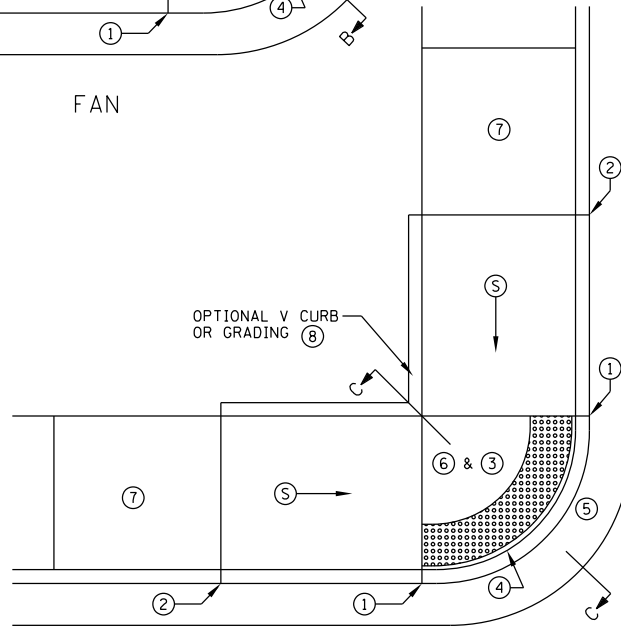


SECTION B-B

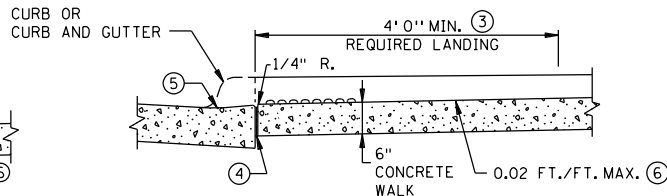
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FAN

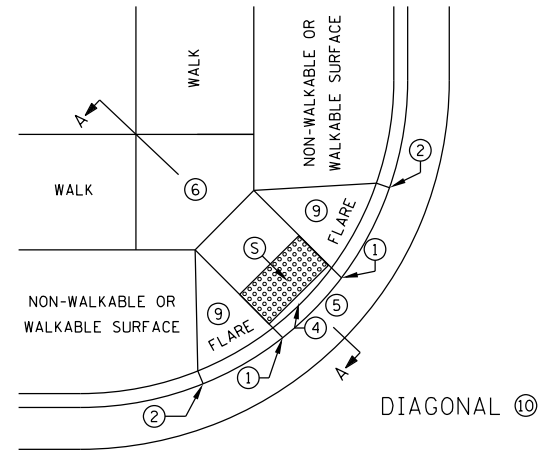


DEPRESSED CORNER



SECTION C-C

PARALLEL/DEPRESSED CORNER



DIAGONAL 10

NOTES:

- LANDINGS SHALL BE LOCATED ANYWHERE THE PEDESTRIAN ACCESS ROUTE CHANGES DIRECTION, AT THE TOP OF RAMPS THAT HAVE RUNNING SLOPES GREATER THAN 5.0%, AND IF THE APPROACHING WALK IS INVERSE GRADE.
- INITIAL CURB RAMP LANDINGS SHALL BE CONSTRUCTED WITHIN 15' FROM THE BACK OF CURB, WITH 6' FROM THE BACK OF CURB BEING THE PREFERRED DISTANCE.
- SECONDARY CURB RAMP LANDINGS ARE REQUIRED FOR EVERY 30" OF VERTICAL RISE WHEN THE LONGITUDINAL SLOPE IS GREATER THAN 5.0%.
- CONTRACTION JOINTS SHALL BE CONSTRUCTED ALONG ALL GRADE BREAKS.
- ALL GRADE BREAKS WITHIN THE PAR SHALL BE PERPENDICULAR TO THE PATH OF TRAVEL.
- TO ENSURE RAMPS AND LANDINGS ARE PROPERLY CONSTRUCTED, LANDINGS MAY BE CAST SEPARATELY. FOLLOW SIDEWALK REINFORCEMENT DETAILS ON SHEET 5 WHEN LANDINGS ARE CAST SEPARATELY.
- ALL SLOPES ARE ABSOLUTE, RATHER THAN RELATIVE TO SIDEWALK/ROADWAY GRADES.
- TOP OF CURB SHALL MATCH PROPOSED ADJACENT WALK GRADE.
- 4' MINIMUM WIDTH OF DETECTABLE WARNING IS REQUIRED FOR ALL RAMPS. DETECTABLE WARNINGS SHALL CONTINUOUSLY EXTEND FOR A MINIMUM OF 24" IN THE PATH OF TRAVEL. SHARED USE PATHS SHALL HAVE DETECTABLE WARNING ACROSS THE ENTIRE WIDTH OF PATH WHEN THE PATH CROSSES A ROAD.
- SEE STANDARD PLATE 7038 AND SHEET 4 OF 5 FOR ADDITIONAL DETAILS ON DETECTABLE WARNING.
- 1 0" CURB HEIGHT.
- 2 FULL CURB HEIGHT.
- 3 DETECTABLE WARNINGS MAY BE PART OF 4' X 4' LANDING AREA IF IT IS NOT FEASIBLE TO CONSTRUCT THE LANDING OUTSIDE OF THE DETECTABLE WARNING AREA.
- 4 1/2" PREFORMED JOINT FILLER MATERIAL AASHTO M 213. JOINT FILLER SHALL BE PLACED FLUSH WITH THE BACK OF CURB AND ADJACENT SIDEWALK. JOINT SHALL BE FREE OF DEBRIS. RECTANGULAR DETECTABLE WARNINGS SHALL BE SETBACK 3" FROM THE BACK OF CURB. RADIAL DETECTABLE WARNINGS SHALL BE SETBACK 3" MINIMUM TO 6" MAXIMUM FROM THE BACK OF CURB.
- 5 SEE PEDESTRIAN ACCESS ROUTE CURB AND GUTTER DETAIL FOR INFORMATION ON CONSTRUCTING CURB AND GUTTER AT CURB OPENINGS. SEE SHEET NO. 3 OF 5.
- 6 4' BY 4' MIN. LANDING WITH MAX. 2.0% SLOPE IN ALL DIRECTIONS.
- 7 IF LONGITUDINAL SLOPE IS GREATER THAN 5.0%, 4' X 4' MIN. LANDING WITH MAX 2.0% SLOPE IN ALL DIRECTIONS REQUIRED.
- 8 V CURB, IF USED, SHALL BE PLACED OUTSIDE THE SIDEWALK LIMITS WHEN RIGHT OF WAY ALLOWS. SEE SHEET 5 OF 5.
- 9 SEE SHEET 4 OF 5, TYPICAL SIDE TREATMENT OPTIONS, FOR DETAILS ON FLARES AND RETURNED CURBS.
- 10 DIAGONAL RAMPS SHOULD ONLY BE USED AFTER ALL OTHER CURB RAMP TYPES HAVE BEEN EVALUATED AND DEEMED IMPRACTICAL.

| LEGEND | |
|---|---|
| THESE LONGITUDINAL SLOPE RANGES SHALL BE THE STARTING POINT. IF SITE CONDITIONS WARRANT, LONGITUDINAL SLOPES UP TO 8.3% OR FLATTER ARE ALLOWED. | |
| | INDICATES PEDESTRIAN RAMP - SLOPE SHALL BE BETWEEN 5.0% MINIMUM AND 8.3% MAXIMUM IN THE DIRECTION SHOWN AND THE CROSS SLOPE SHALL NOT EXCEED 2.0% |
| | INDICATES PEDESTRIAN RAMP - SLOPE SHALL BE GREATER THAN 2.0% AND LESS THAN 5.0% IN THE DIRECTION SHOWN AND CROSS SLOPE SHALL NOT EXCEED 2.0% |

Change numbers
to 10 OF 96

| |
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| REVISION: |
| APPROVED: 8-6-2014 |
| |
| OPERATIONS ENGINEER |

MINNESOTA DEPARTMENT OF TRANSPORTATION

REVISOR:

APPROVED: 8-6-2014

STATE DESIGN ENGINEER

| PEDESTRIAN CURB RAMP DETAILS | |
|------------------------------|--------|
| STANDARD PLAN 5-297.250 | 1 OF 5 |

NOT TO SCALE

| NO. | DATE | DRW | CKD | APP | REVISION |
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BEVERLY JO WARMKA
LIC. NO. 43843
DATE

DETAILS AND STANDARD PLATES

MINNEAPOLIS DEPARTMENT OF PUBLIC WORKS

| | |
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| DRW: MMA | DATE: 02/18/15 |
| CHK: HRV | DATE: 02/18/15 |
| APP: BJW | DATE: |

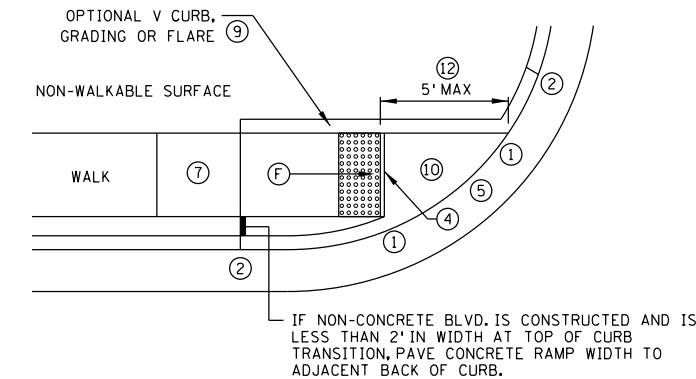
MINNEHAHA AVE 26TH TO 24TH

L.P. 600D 6754 S.A.P. 141-191-009

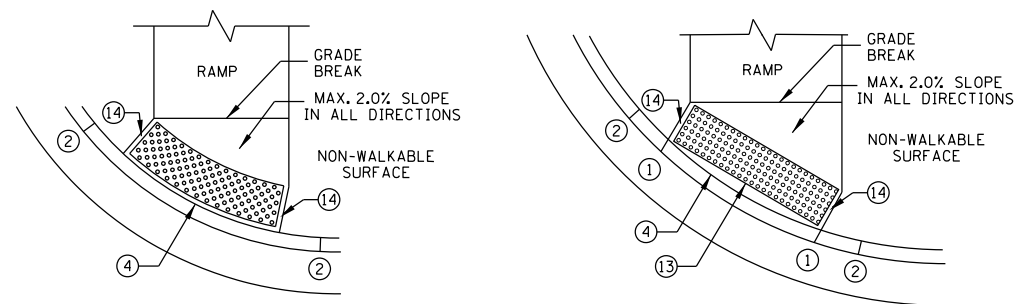
D6
OF
D10

FILE NAME = 6754-DETAIL-006.dgn

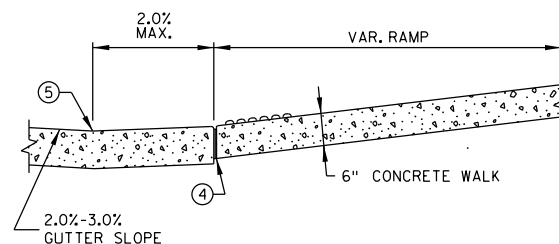
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A cross-sectional diagram of a road gutter and ramp. A vertical structure labeled "RAMP" is shown with a hatched area at its base. To the right of the ramp is a curved line representing the "BACK OF CURB". Below the curb is a "FLOW LINE" and further down is the "FRONT OF GUTTER". A "NON-WALKABLE OR WALKABLE SURFACE" is indicated by a hatched area between the ramp and the curb. A dashed line labeled "D" with arrows at both ends indicates a dimension or flow direction. Circled numbers 1, 10, and 4 are placed near the curb and gutter line.





DETECTABLE WARNING PLACEMENT WHEN SETBACK CRITERIA IS EXCEEDED



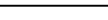
CURB FOR DIRECTIONAL RAMPS ⑪

- (1) 0" CURB HEIGHT.
- (2) FULL CURB HEIGHT.
- (3) 3" MINIMUM CURB HEIGHT, 4" PREFERRED.
- (4) 1/2" PERFORMED JOINT FILLER MATERIAL AASHTO M 213. JOINT FILLER SHALL BE PLACED FLUSH WITH THE BACK OF CURB AND ADJACENT SIDEWALK. JOINT SHALL BE FREE OF DEBRIS. RECTANGULAR DETECTABLE WARNINGS SHALL BE SETBACK 3" FROM THE BACK OF CURB. RADIAL DETECTABLE WARNINGS SHALL BE SETBACK 3" MIN. TO 6" MAX. FROM THE BACK OF CURB.
- (5) SEE PEDESTRIAN ACCESS ROUTE CURB AND GUTTER DETAIL FOR INFORMATION ON CONSTRUCTING CURB AND GUTTER AT CURB OPENINGS. SEE SHEET NO. 3 OF 5.
- (6) 4' BY 4' MIN. LANDING WITH MAX. 2.0% SLOPE IN ALL DIRECTIONS.
- (7) IF LONGITUDINAL SLOPE IS GREATER THAN 5.0%, 4' X 4' MIN. LANDING WITH MAX 2.0% SLOPE IN ALL DIRECTIONS REQUIRED.
- (8) V CURB, IF USED, SHALL BE PLACED OUTSIDE THE SIDEWALK LIMITS WHEN RIGHT OF WAY ALLOWS.
- (9) SEE SHEET 4 OF 5, TYPICAL SIDE TREATMENT OPTIONS, FOR DETAILS ON FLARES AND RETURNED CURBS.
- (10) MAX. 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK AND DRAIN TO FLOW LINE. SHALL BE CONSTRUCTED INTEGRAL WITH CURB AND GUTTER.
- (11) TO BE USED FOR ALL DIRECTIONAL RAMPS.
- (12) PLACE DOMES AT THE BACK OF CURB WHEN ALLOWABLE SETBACK CRITERIA IS EXCEEDED.
- (13) RECTANGULAR DETECTABLE WARNINGS MAY BE SETBACK 9" FROM THE BACK OF CURB WITH CORNERS SET 3" FROM BACK OF CURB. IF 9" SETBACK IS EXCEEDED USE RADIAL DETECTABLE WARNINGS.
- (14) WHEN NO CONCRETE FLARES ARE PROPOSED, THE CONCRETE WALK SHALL BE FORMED AND CONSTRUCTED PERPENDICULAR TO THE BACK OF CURB. MAINTAIN 3" BETWEEN EDGE OF DOMES AND EDGE OF CONCRETE.
- (15) FRONT EDGE OF DETECTABLE WARNING SHALL BE SET BACK 2' MAXIMUM WHEN ADJACENT TO WALKABLE SURFACE, AND 5' MAXIMUM WHEN ADJACENT TO NON-WALKABLE SURFACE WITH ONE CORNER SET 3" FROM BACK OF CURB. WHETHER A SURFACE IS WALKABLE OR NOT SHALL BE DETERMINED BY THE ENGINEER.

| LEGEND | |
|---|---|
| THESE LONGITUDINAL SLOPE RANGES SHALL BE THE STARTING POINT. IF SITE CONDITIONS WARRANT, LONGITUDINAL SLOPES UP TO 8.3% OR FLATTER ARE ALLOWED. | |
|  | INDICATES PEDESTRIAN RAMP - SLOPE SHALL BE BETWEEN 5.0% MINIMUM AND 8.3% MAXIMUM IN THE DIRECTION SHOWN AND THE CROSS SLOPE SHALL NOT EXCEED 2.0% |
|  | INDICATES PEDESTRIAN RAMP - SLOPE SHALL BE GREATER THAN 2.0% AND LESS THAN 5.0% IN THE DIRECTION SHOWN AND CROSS SLOPE SHALL NOT EXCEED 2.0% |

Change numbers
to 11 OF 96

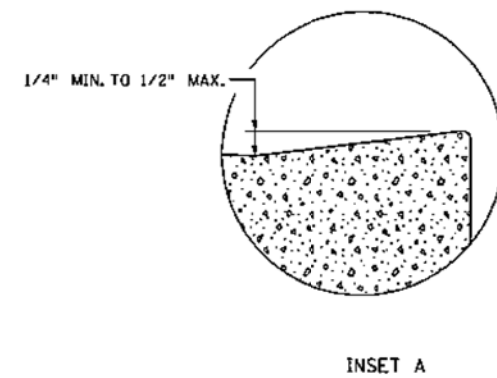
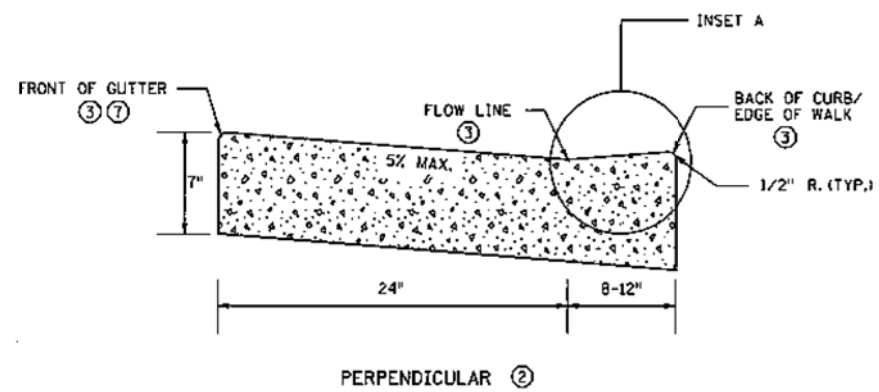
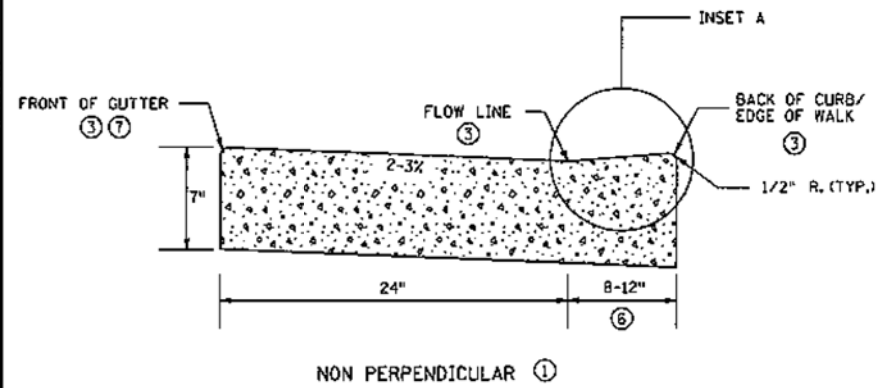
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|---|------------------------------|
| STANDARD PLAN SHEET NO. 5-297.250 (2 OF 5) | PEDESTRIAN CURB RAMP DETAILS |
| STANDARD APPROVED: APRIL 10, 2013 | |
| STATE PROJ. NO. | (TH) SHEET NO. OF SHEETS |

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| NOT TO SCALE | NO. | DATE | DRW | CKD | APP | REVISION | I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. <div><div></div><div>43843</div><div>BEVERLY JO WARMKA LIC. NO. DATE</div></div> | DETAILS AND STANDARD PLATES | | | | MINNEHAHA AVE 26TH TO 24TH | |
| | | | | | | | | <div><div></div><div><div>MINNEAPOLIS</div><div>DEPARTMENT OF</div><div>PUBLIC WORKS</div></div></div> | DRW: MMA | DATE: 02/18/15 | | | |
| | | | | | | | | | CHK: HRV | DATE: 02/18/15 | | | |
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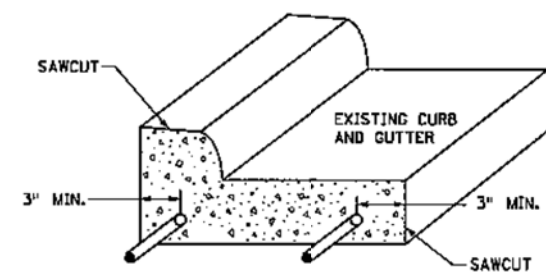
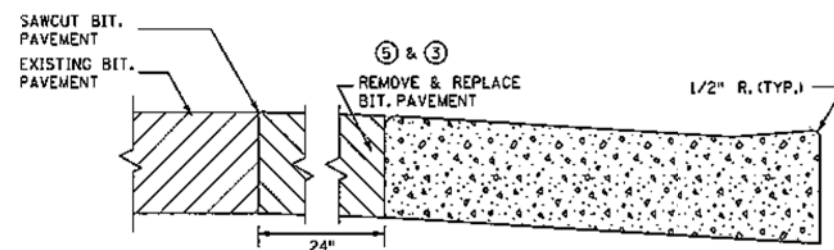
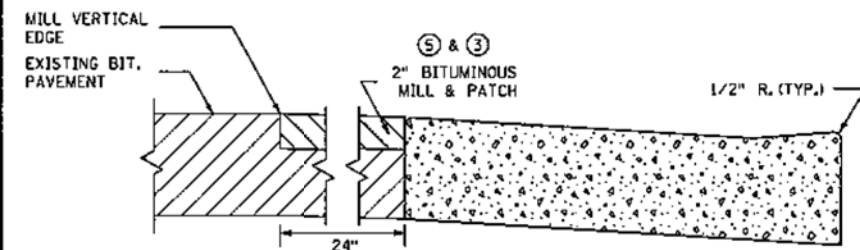
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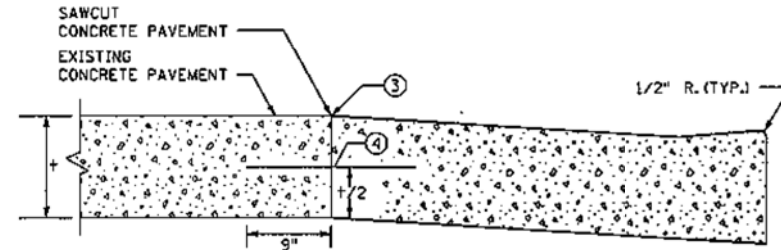
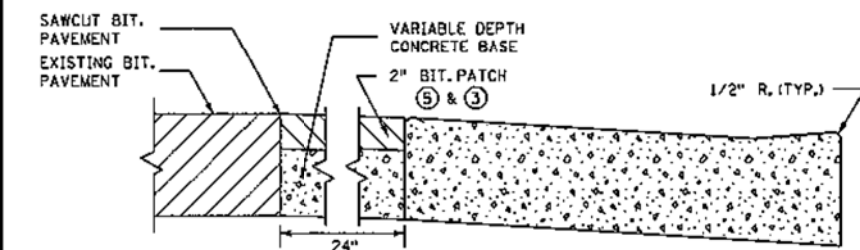
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PEDESTRIAN ACCESS ROUTE
CURB & GUTTER DETAIL



CURB AND GUTTER REINFORCEMENT ⑧
FOR USE ON CURB RAMP RETROFITS



PAVEMENT TREATMENT OPTIONS
IN FRONT OF CURB & GUTTER
FOR USE ON CURB RAMP RETROFITS

NOTES:

POSITIVE FLOW LINE DRAINAGE SHALL BE MAINTAINED THROUGH THE PEDESTRIAN ACCESS ROUTE (PAR) AT A 2% MAXIMUM.

NO PONDING SHALL BE PRESENT IN THE PAR.

ANY VERTICAL LIP THAT OCCURS AT THE FLOW LINE SHALL NOT BE GREATER THAN 1/4 INCH.

① FOR USE AT CURB CUTS WHERE THE PEDESTRIAN'S PATH OF TRAVEL IS ASSUMED NON PERPENDICULAR TO THE GUTTER FLOW LINE. RAMP TYPES INCLUDE: FANS, DEPRESSED CORNERS, & ONE WAY AND COMBINED DIRECTIONALS.

② FOR USE AT CURB CUTS WHERE THE PEDESTRIAN'S PATH OF TRAVEL IS ASSUMED PERPENDICULAR TO THE GUTTER FLOW LINE. RAMP TYPES INCLUDE: PERPENDICULAR, TIERED PERPENDICULAR, PARALLEL, AND DIAGONAL RAMPS.

③ THERE SHALL BE NO VERTICAL DISCONTINUITIES GREATER THAN 1/4\".

④ DRILL AND GROUT NO. 4 EPOXY-COATED 18\" LONG TIE BARS AT 30\" CENTER TO CENTER INTO EXISTING CONCRETE PAVEMENT.

⑤ ELEVATION CHANGE TAKES PLACE FROM THE EXISTING TO NEW FRONT OF GUTTER. PATCH IS USED TO MATCH THE NEW GUTTER FACE INTO THE EXISTING ROADWAY.

⑥ VARIABLE WIDTH FOR DIRECTIONAL CURB APPLICATIONS.

⑦ TOP FRONT OF GUTTER SHALL BE CONSTRUCTED FLUSH WITH PROPOSED ADJACENT PAVEMENT ELEVATION. PAR GUTTER SHALL NOT BE OVERLAID.

⑧ WHERE PLAN SPECIFIES, DRILL AND GROUT 2 - NO. 4 X 12\" LONG REINFORCE BARS (EPOXY COATED).

Change numbers
to 12 OF 96

| REVISION: |
|------------------------|
| APPROVED: 8-6-2014 |

MINNESOTA DEPARTMENT OF TRANSPORTATION
REVISOR: Christopher Ky
STATE DESIGN ENGINEER
APPROVED: 8-6-2014

| PEDESTRIAN CURB RAMP DETAILS | |
|------------------------------|--------|
| STANDARD PLAN 5-297.250 | 3 OF 5 |

NOT TO SCALE

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BEVERLY JO WARMKA

43843

LIC. NO.

DATE

DETAILS AND STANDARD PLATES

Minneapolis
Public Works

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| DRW: MMA | DATE: 02/18/15 |
| CHK: HRV | DATE: 02/18/15 |
| APP: BJW | DATE: |

MINNEHAHA AVE 26TH TO 24TH

L.P. 600D 6754 S.A.P. 141-191-009

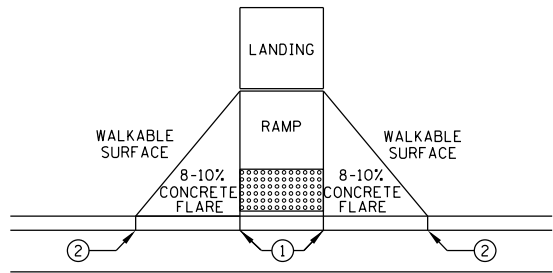
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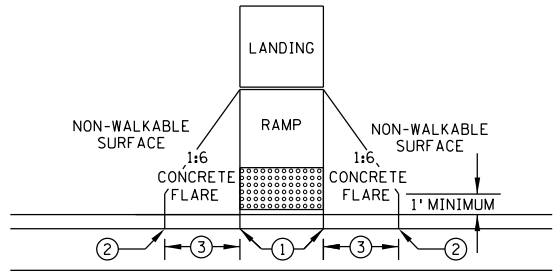
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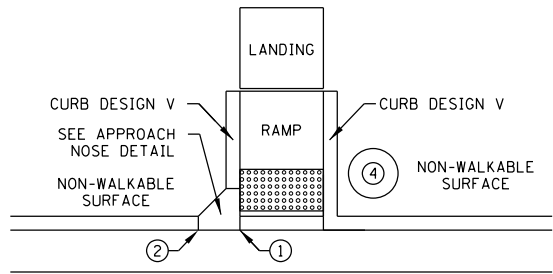
REVISION:
APPROVED: 8-6-2014
M. J. Warmka
OPERATIONS ENGINEER



PAVED FLARES
ADJACENT TO WALKABLE SURFACE

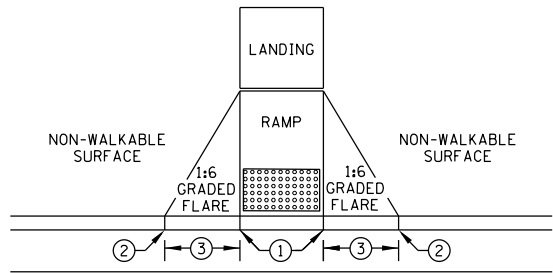


PAVED FLARES
ADJACENT TO NON-WALKABLE SURFACE



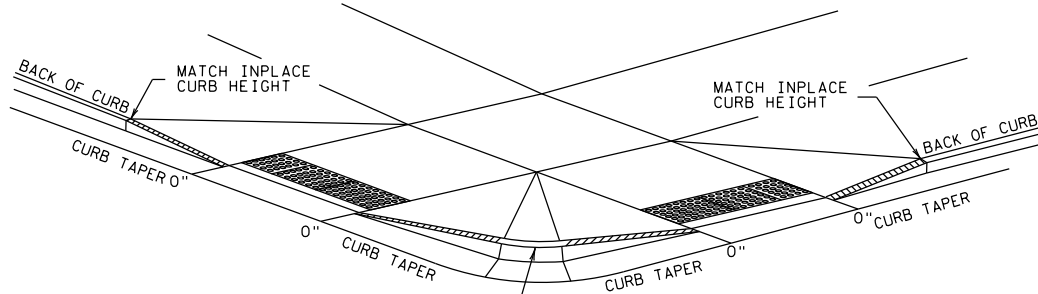
DIRECTION OF TRAFFIC

RETURNED CURB



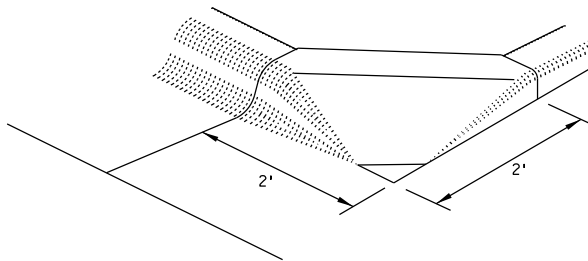
GRADED FLARES

TYPICAL SIDE TREATMENT OPTIONS ⑤



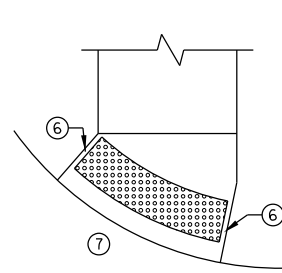
3" MINIMUM CURB HEIGHT, 4" PREFERRED
(MEASURED AT FRONT FACE OF CURB)
FOR A MIN. 6" LENGTH
(MEASURED ALONG FLOW LINE)

DETECTABLE EDGE WITH
CURB AND GUTTER ⑧

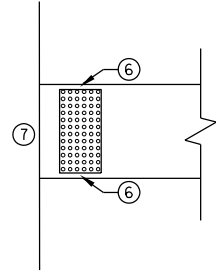


SECTION A-A

APPROACH NOSE DETAIL
FOR DOWNSTREAM SIDE OF TRAFFIC



RADIAL DETECTABLE WARNING



RECTANGULAR DETECTABLE WARNING

DETECTABLE EDGE WITHOUT CURB AND GUTTER

NOTES:

SEE STANDARD PLATE 7038 AND THIS SHEET FOR ADDITIONAL DETAILS ON DETECTABLE WARNING.
WHETHER A SURFACE IS WALKABLE OR NOT SHALL BE DETERMINED BY THE ENGINEER.
CONCRETE FLARE LENGTHS ADJACENT TO NON-WALKABLE SURFACES SHOULD BE LESS THAN 8' LONG
MEASURED ALONG THE RAMPS FROM THE BACK OF CURB.

- ① 0" CURB HEIGHT.
- ② FULL CURB HEIGHT.
- ③ 2' - 3' FLARE.
- ④ IMMOVABLE OBJECT OR OBSTRUCTION.
- ⑤ SIDE TREATMENTS ARE APPLICABLE TO ALL RAMP TYPES AND SHOULD BE IMPLEMENTED AS NEEDED ON ALL RAMPS AS FIELD CONDITIONS DICTATE. THE ENGINEER SHALL DETERMINE THE RAMP SIDE TREATMENTS BASED ON MAINTENANCE OF BOTH ROADWAY AND SIDEWALK, ADJACENT PROPERTY CONSIDERATIONS, AND MITIGATING CONSTRUCTION IMPACTS.
- ⑥ WHEN NO CONCRETE FLARES ARE PROPOSED, THE CONCRETE WALK SHALL BE FORMED AND CONSTRUCTED PERPENDICULAR TO THE EDGE OF ROADWAY. MAINTAIN 3" BETWEEN EDGE OF DOMES AND EDGE OF CONCRETE.
- ⑦ IF NO CURB AND GUTTER IS PLACED IN RURAL SECTIONS, DETECTABLE WARNINGS SHALL BE PLACED 1' FROM THE EDGE OF ROADWAY TO PROVIDE VISUAL CONTRAST.
- ⑧ ALL CONSTRUCTED CURBS MUST HAVE A CONTINUOUS DETECTABLE EDGE FOR THE VISUALLY IMPAIRED. THIS DETECTABLE EDGE REQUIRES DETECTABLE WARNINGS WHEREVER THERE IS ZERO-INCH HIGH CURB. CURB TAPERS ARE CONSIDERED A DETECTABLE EDGE WHEN THE TAPER STARTS WITHIN 3" OF THE EDGE OF THE DETECTABLE WARNINGS AND UNIFORMLY RISES TO A 3-INCH MINIMUM CURB HEIGHT. ANY CURB NOT PART OF A CURB TAPER AND LESS THAN 3 INCHES IN HEIGHT IS NOT CONSIDERED A DETECTABLE EDGE AND THEREFORE IS NOT COMPLIANT WITH ACCESSIBILITY STANDARDS.

Change numbers
to 13 OF 96



REVISOR:
Christine By
APPROVED: 8-6-2014
STATE DESIGN ENGINEER

PEDESTRIAN CURB RAMP DETAILS

STANDARD PLAN 5-297.250

4 OF 5

NOT TO SCALE

| NO. | DATE | DRW | CKD | APP | REVISION |
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BEVERLY JO WARMKA
LIC. NO. 43843
DATE



MINNEAPOLIS
DEPARTMENT OF
PUBLIC WORKS

DETAILS AND STANDARD PLATES

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| DRW: MMA | DATE: 02/18/15 |
| CHK: HRV | DATE: 02/18/15 |
| APP: BJW | DATE: |

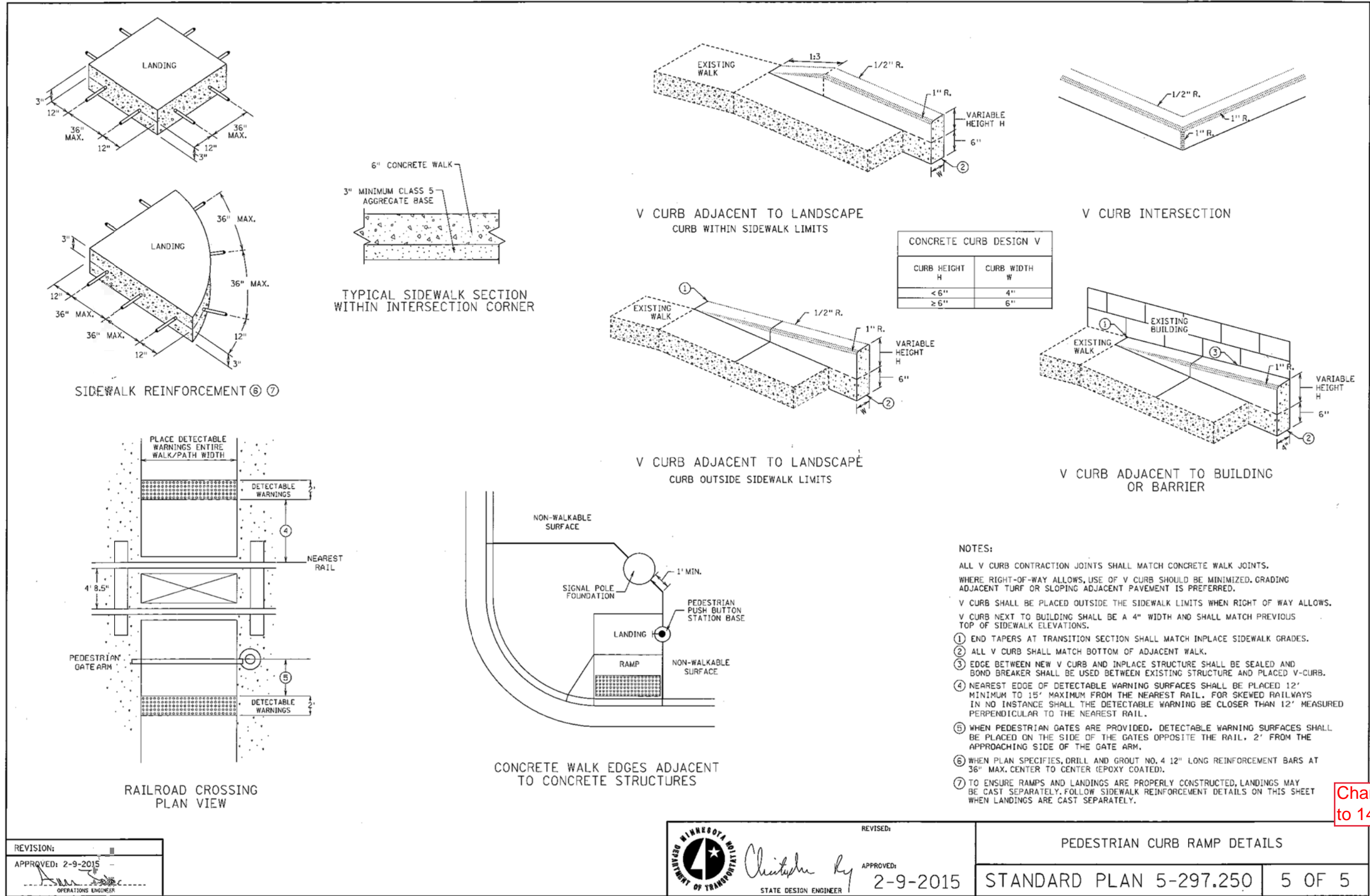
MINNEHAHA AVE 26TH TO 24TH

L.P. 600D 6754 S.A.P. 141-191-009


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DATE PRINTED = 5/26/2015 11:42:01 AM

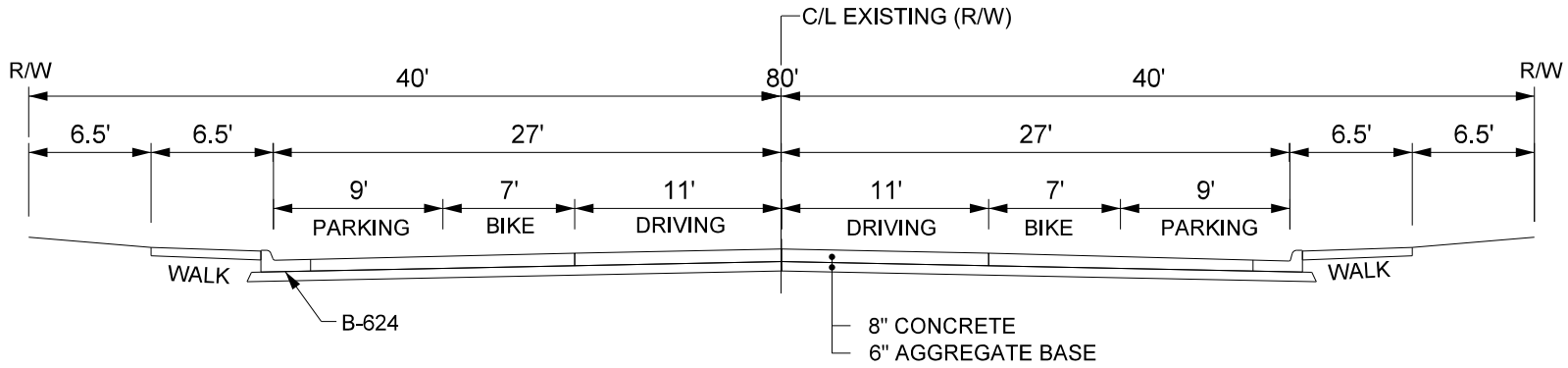
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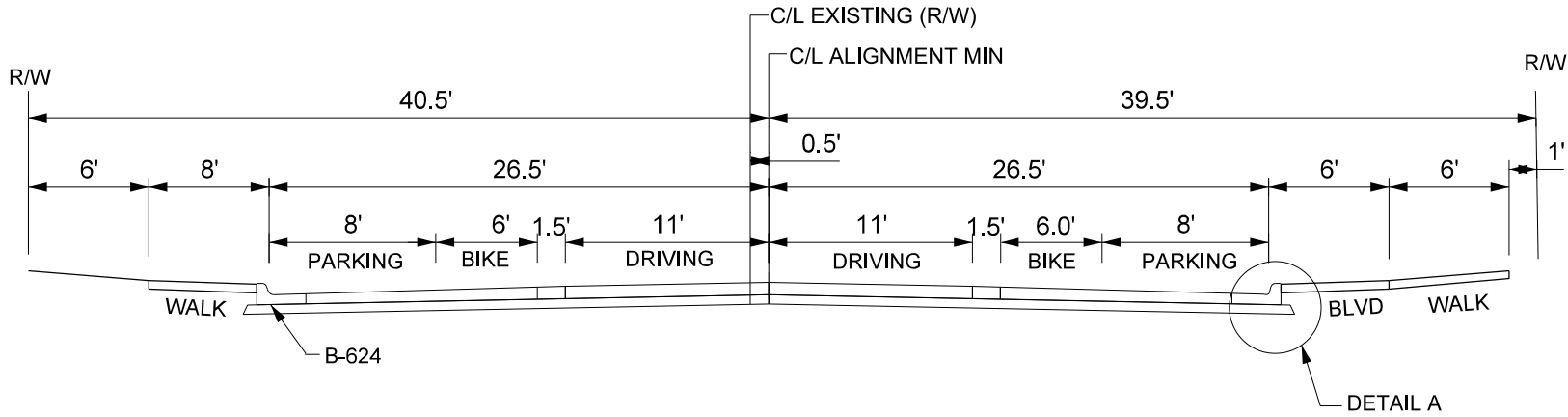
Change numbers to 14 OF 96

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| | | | | | | | | | DRW: MMA | DATE: 02/19/15 | L.P. 600D 6754 S.A.P. 141-191-009 | | | |
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PRESENT TYPICAL SECTIONS
MINNEHAHA AVE
(26TH ST E TO 24TH ST E)




PROPOSED TYPICAL SECTION
MINNEHAHA AVE
(26TH ST E TO 24TH ST E)

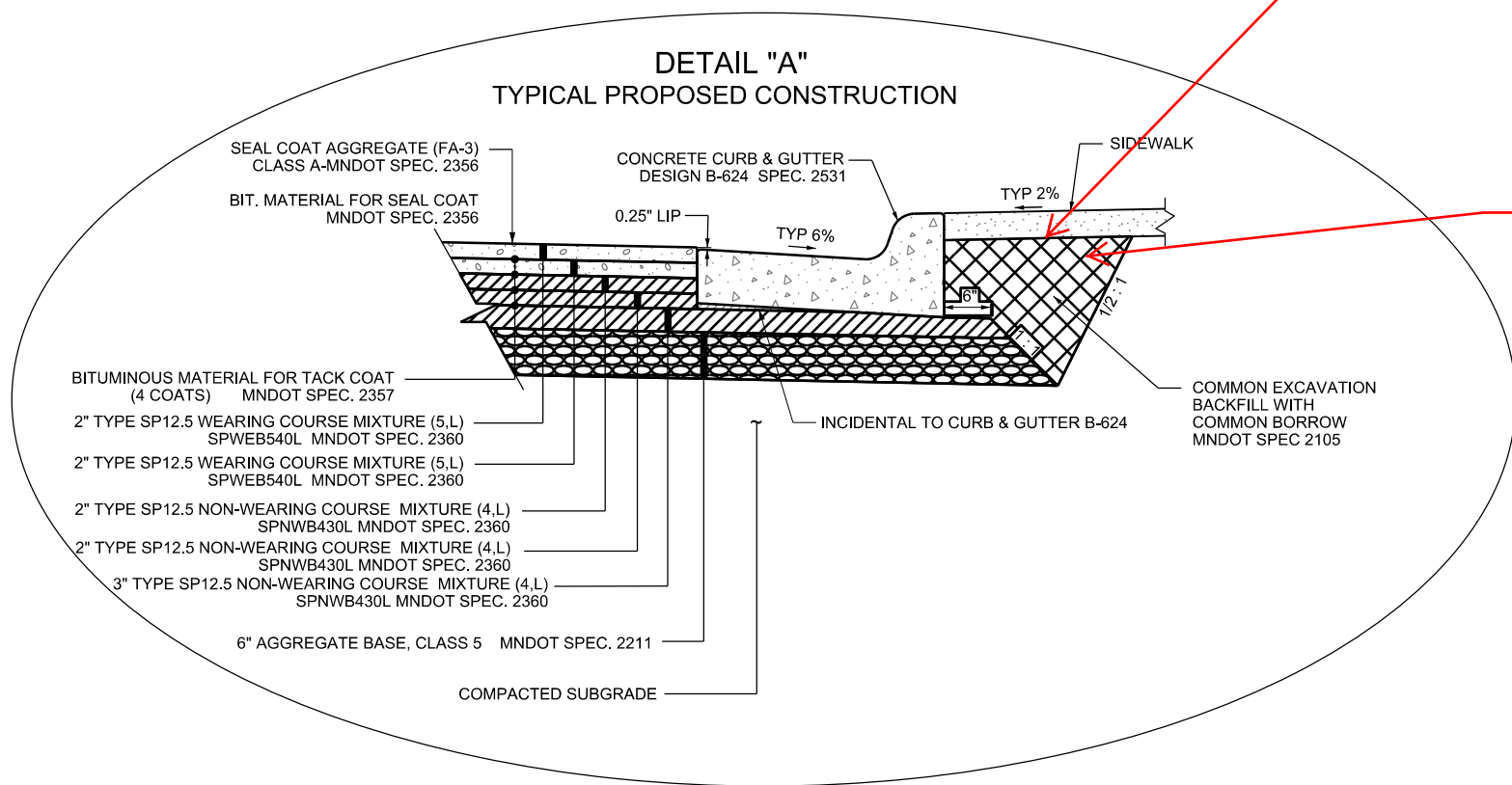
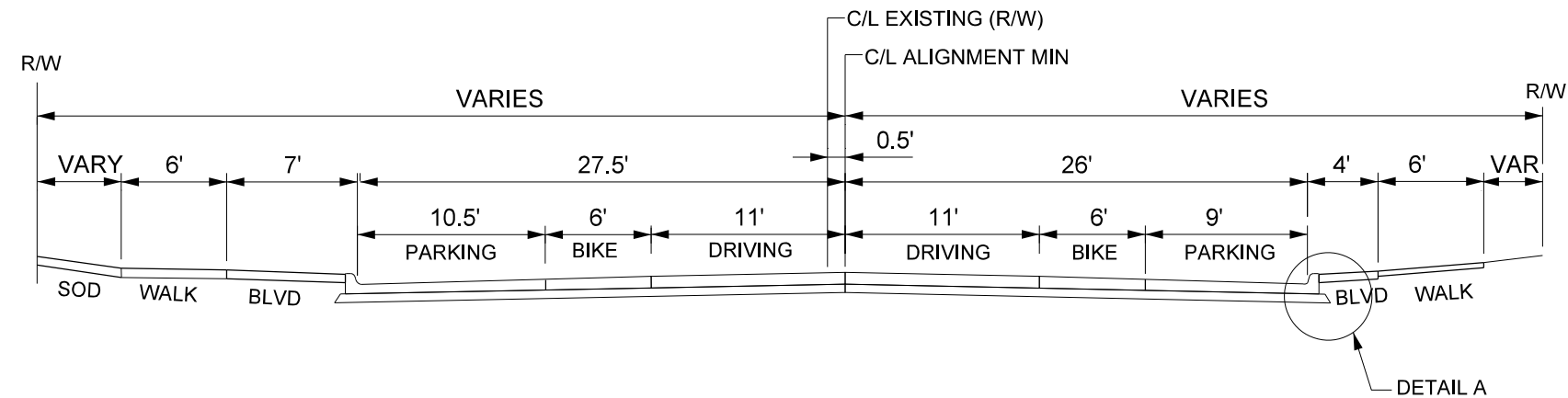


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to 15 OF 96

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| | | | | | | | |  | MINNEAPOLIS DEPARTMENT OF PUBLIC WORKS | DRW: MMA | DATE: 02/18/15 | L.P. 600D 6754 S.A.P. 141-191-009 | | |
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PROPOSED TYPICAL SECTION
MINNEHAHA AVE
(26th ST E TO 24th ST E)
STA 26+32.58 TO 26+96.76




Add 3" Class 5 aggregate under concrete walk

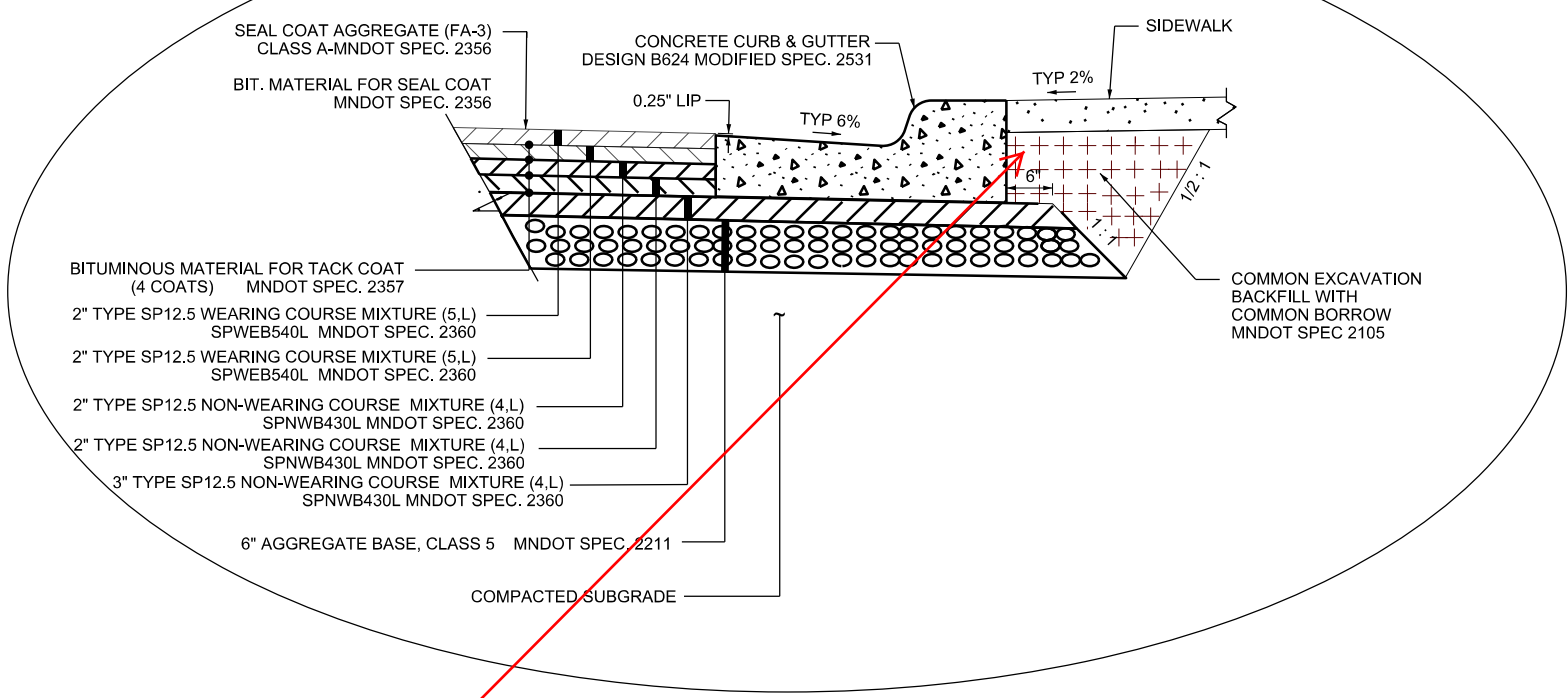
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Change numbers to 16 OF 96

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| | | | | | | | |  | MINNEAPOLIS | DRW: JFN | DATE: 03/26/15 | L.P. 600D 6754 S.A.P. 141-191-009 | | |
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DETAIL "A"
TYPICAL PROPOSED CONSTRUCTION

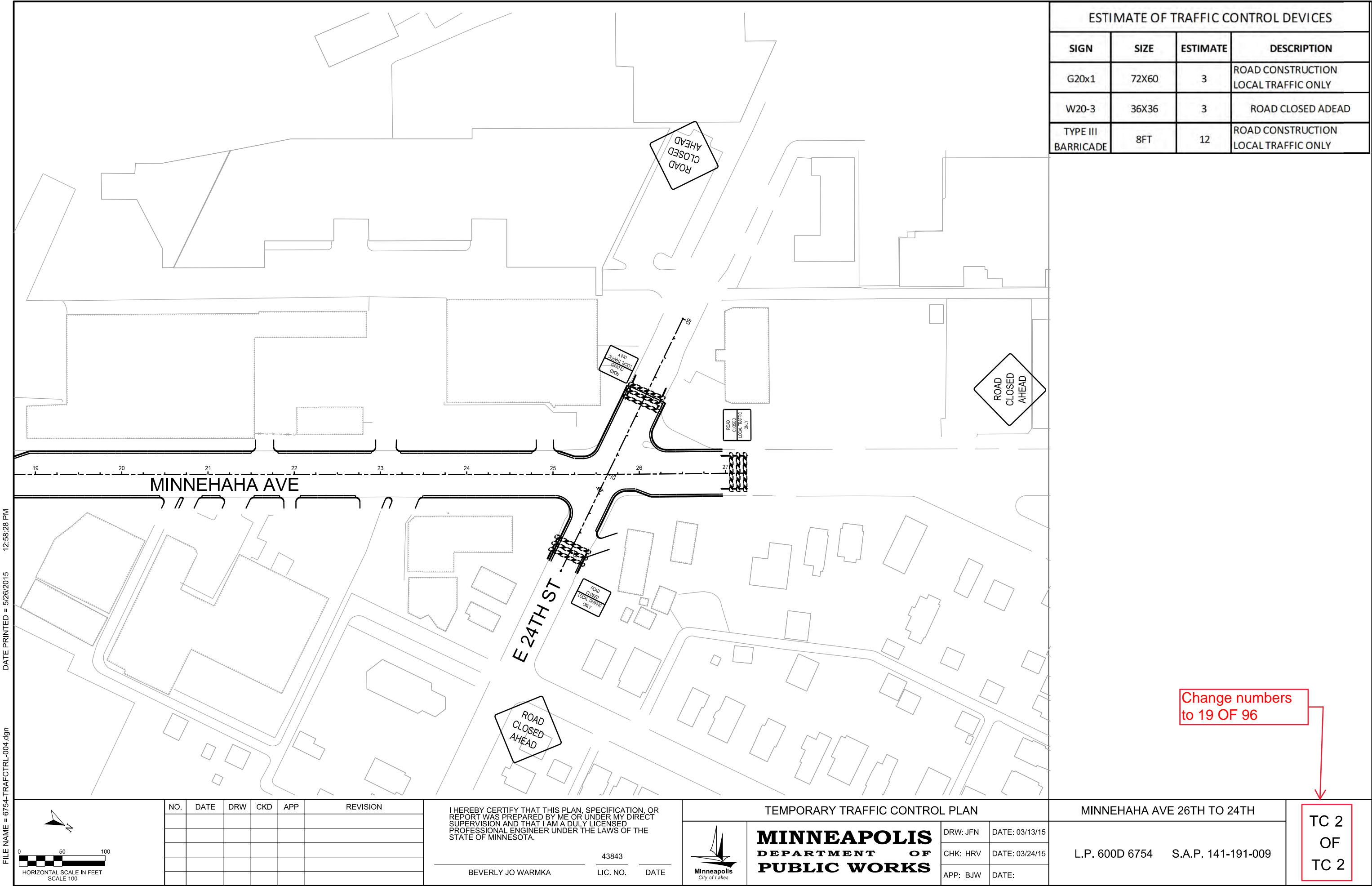


Add 3" Class 5 aggregate under
concrete walk

Change numbers
to 17 OF 96

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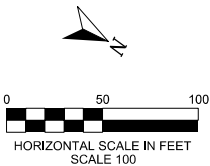
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| | | | | | | | |  | MINNEAPOLIS | DRW: GPS | DATE: 02/11/14 | L.P. 600D 6754 S.A.P. 141-191-009 | | |
| | | | | | | | | | DEPARTMENT OF | CHK: HRV | DATE: 02/11/14 | | | |
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| ESTIMATE OF TRAFFIC CONTROL DEVICES | | | |
|-------------------------------------|-------|----------|---|
| SIGN | SIZE | ESTIMATE | DESCRIPTION |
| G20x1 | 72X60 | 3 | ROAD CONSTRUCTION LOCAL TRAFFIC ONLY |
| W20-3 | 36X36 | 3 | ROAD CLOSED AHEAD |
| TYPE III BARRICADE | 8FT | 12 | ROAD CONSTRUCTION LOCAL TRAFFIC ONLY |

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Change numbers
to 19 OF 96




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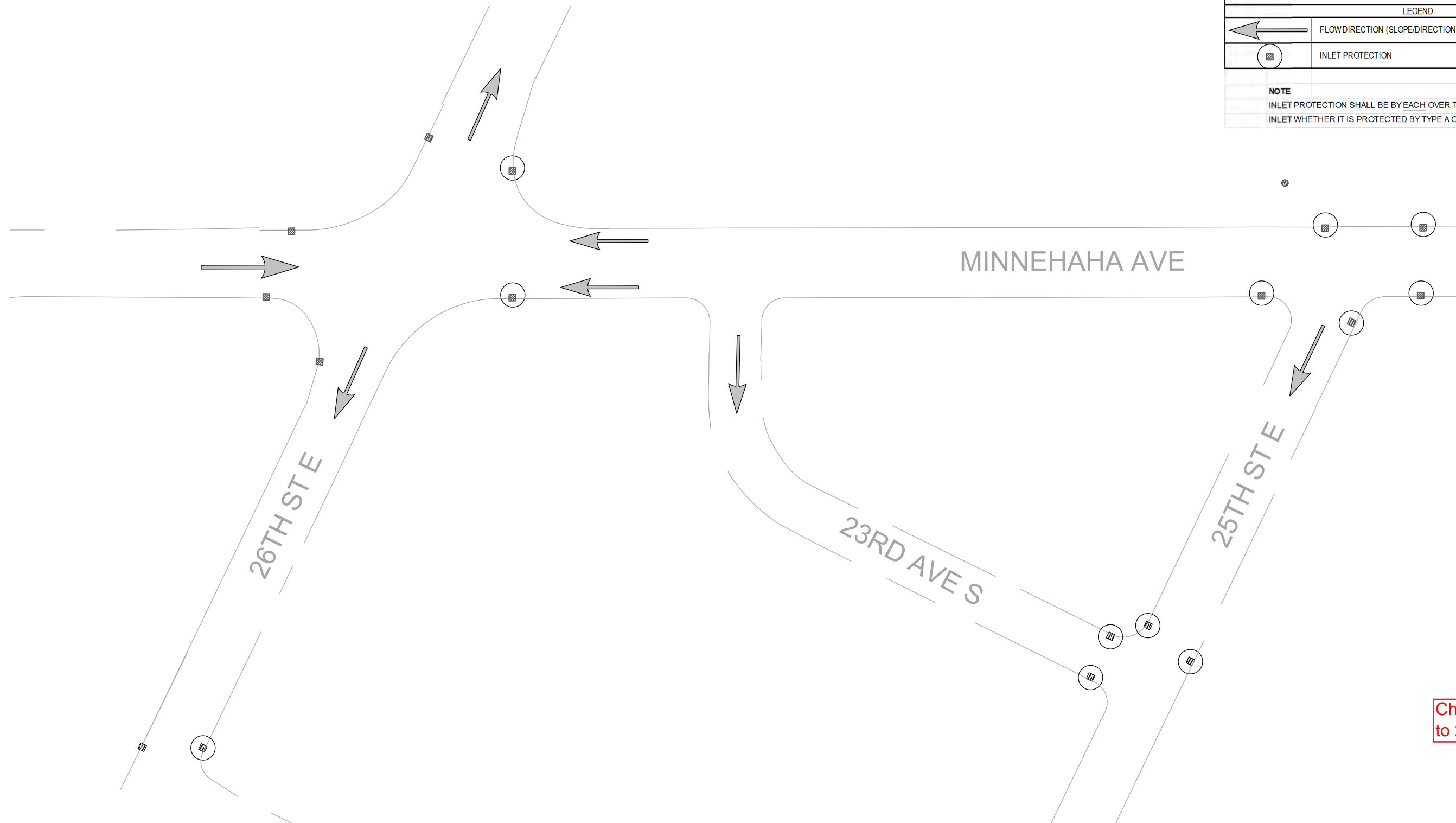
BEVERLY JO WARMKA 43843 DATE

LIC. NO.



| TEMPORARY TRAFFIC CONTROL PLAN | | | | MINNEHAHA AVE 26TH TO 24TH | |
|--|----------|----------------|--|----------------------------|--------------------|
|  MINNEAPOLIS DEPARTMENT OF PUBLIC WORKS | DRW: JFN | DATE: 03/13/15 | | L.P. 600D 6754 | S.A.P. 141-191-009 |
| | CHK: HRV | DATE: 03/24/15 | | | |
| | APP: BJW | DATE: | | | |

EROSION CONTROL

| STA 12+62.25 TO 19+00.00 | | | | |
|---|--|------------------------------|------|--------------------|
| LEGEND | ITEM NUMBER | DESCRIPTION | UNIT | ESTIMATED TOTAL |
|  | 2573 530 | STORM DRAIN INLET PROTECTION | EACH | 12 |
| WATERSHED | | | | |
| ALL STORM WATER IN THIS PROJECT DRAINS AND OUTLETS INTO THE MISSISSIPPI RIVER | | | | |
| LEGEND | | | | |
|  | FLOW DIRECTION (SLOPE/DIRECTION OF RUNOFF) | | | |
|  | INLET PROTECTION | | | |
| NOTE | | | | |
| INLET PROTECTION SHALL BE BY <u>EACH</u> OVER THE LIFE OF THE PROJECT. EACH INLET WHETHER IT IS PROTECTED BY TYPE A OR TYPE C WILL BE ONE UNIT. | | | | |



Change numbers
to 20 OF 96

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|--|-----|------|-----|-----|-----|----------|--|---|----------|----------------|---------------------------------------|----------------------------|--|-------------------------------|
| <div></div> <div>NOT TO SCALE</div> | NO. | DATE | DRW | CKD | APP | REVISION | <div>I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.</div> <div><div>43843</div><div>BEVERLY JO WARMKA</div><div>LIC. NO.</div><div>DATE</div></div> | TEMPORARY EROSION CONTROL PLAN | | | | MINNEHAHA AVE 26TH TO 24TH | | <div>EC1 OF EC3</div> |
| | | | | | | | | <div></div> <div><div>MINNEAPOLIS</div><div>DEPARTMENT OF</div><div>PUBLIC WORKS</div></div> | DRW: JFN | DATE: 03/13/15 | L.P. 600D 6754 S.A.P. 141-191-009 | | | |
| | | | | | | | | CHK: HRV | DATE: | | | | | |
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EROSION CONTROL

MINNEHAHA AVE - 26TH ST TO 24TH ST


STA19+00 TO STA 26+96.75

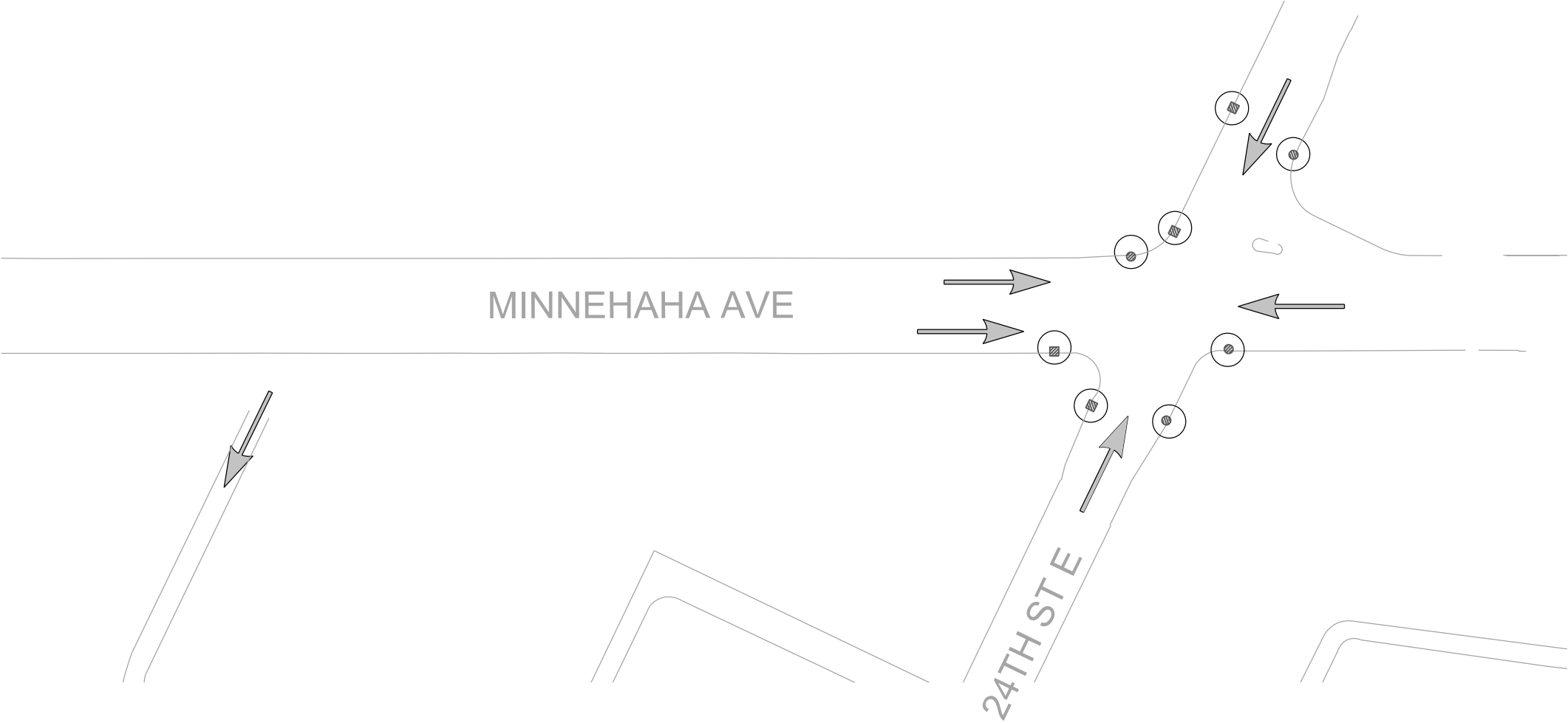
| LEGEND | ITEM NUMBER | DESCRIPTION | UNIT | ESTIMATED TOTAL |
|--------|-------------|-------------------------------------|------|-----------------|
| | 2573-530 | STORM DRAIN INLET PROTECTION TYPE C | EACH | 8 |

WATERSHED

ALL STORM WATER IN THIS PROJECT DRAINS AND OUTLETS INTO THE

LEGEND

| | |
|---|--|
| | CONSTRUCTION LIMITS |
| | FLOW DIRECTION (SLOPE/DIRECTION OF RUNOFF) |
|  | INLET PROTECTION |



Change numbers
to 21 OF 96



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BEVERLY JO WARMKA

43843

LIC. NO.

DATE



TEMPORARY EROSION CONTROL PLAN

MINNEAPOLIS
DEPARTMENT OF
PUBLIC WORKS

DRW: JFN DATE: 03/16/15

CHK: HRV DATE: 05/12/15

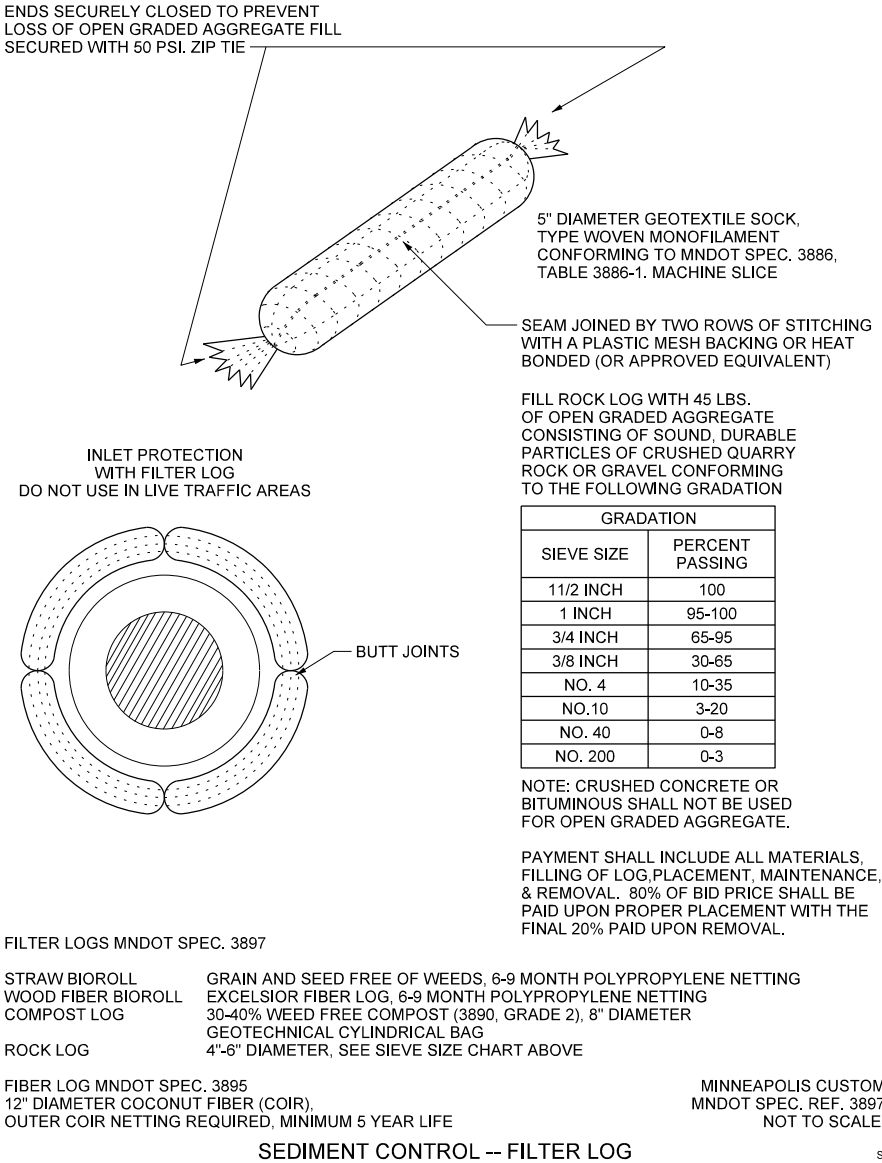
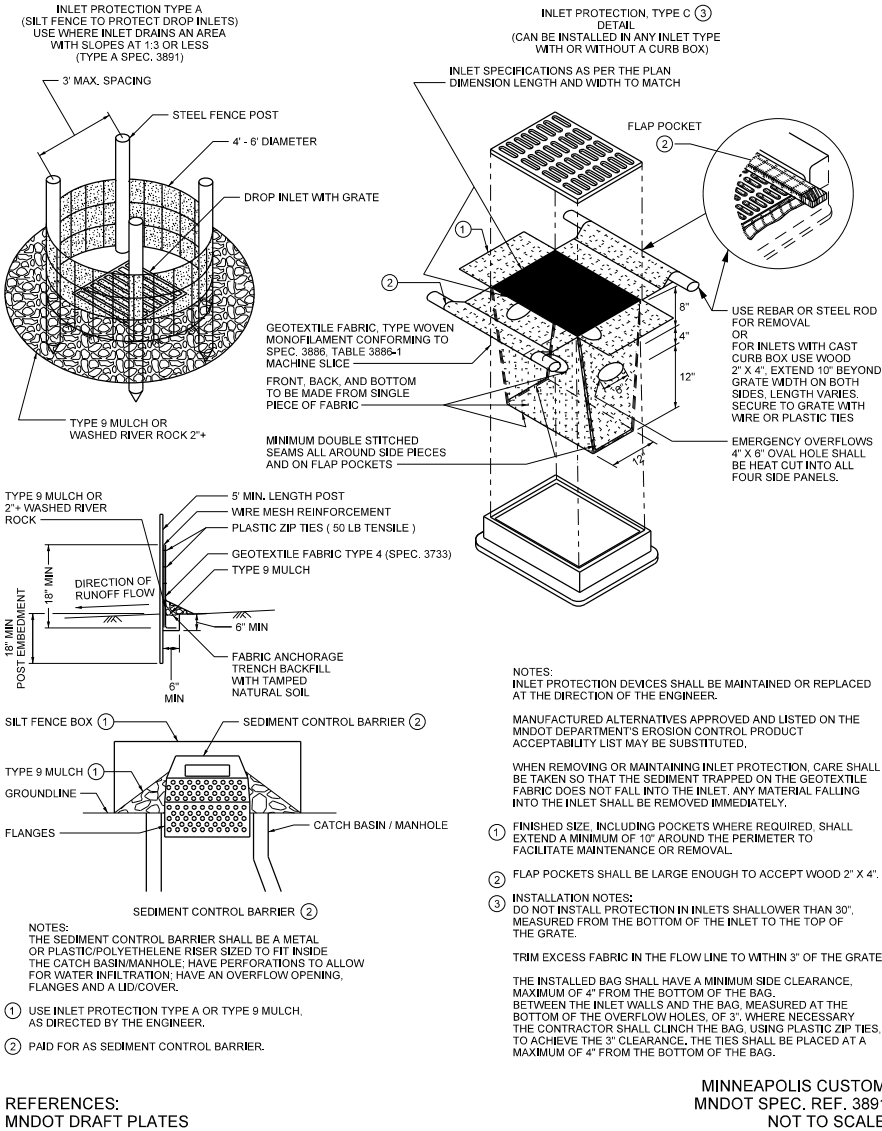
APP: BJW DATE: 05/12/15

MINNEHAHA AVE 26TH TO 24TH

L.P. 600D 6754 S.A.P. 141-191-009

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FILE NAME = 6754-EROSTEMP-004.dgn
DATE PRINTED = 5/26/2015
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- EROSION AND SEDIMENT CONTROL NOTES**
1. INSTALL PERIMETER EROSION CONTROLS AS INDICATED IN PLANS PRIOR TO START OF WORK. HAY BALES ARE NOT ALLOWED AS EROSION & SEDIMENT CONTROL DEVICE IN MINNEAPOLIS.
 2. ESTABLISH ROCK CONSTRUCTION ENTRANCES PRIOR TO BEGINNING LAND DISTURBING ACTIVITIES. 1 1/2" - 3" WASHED AGGREGATE IS RECOMMENDED FOR ROCK ENTRANCES, A GEOTEXTILE FABRIC IS REQUIRED.
 3. REMOVE ALL SOILS AND SEDIMENTS DEPOSITED ONTO PUBLIC AND/OR PRIVATE PAVEMENT AREAS WITHIN 24 HOURS OF DEPOSITION. REMOVAL OF TRACKING MATERIALS SHALL BE COMPLETED AT THE END OF EACH WORK DAY WHEN TRACKING OCCURS. SWEEPING MAY BE ORDERED AT ANY TIME IF CONDITIONS WARRANT. SWEEPING SHALL BE MAINTAINED THROUGHOUT THE DURATION OF CONSTRUCTION AND IN SUCH A MANNER TO PREVENT DUST BEING BLOWN TO ADJACENT PROPERTIES.
 4. INSTALL INLET PROTECTION IN ALL DOWNSTREAM CATCH BASINS WHICH RECEIVE RUNOFF FROM THE DISTURBED AREA. CATCH BASIN INSERTS ARE REQUIRED AT ALL LOCATIONS NOT WITHIN THE DISTURBED AREA WHICH RECEIVE RUNOFF (MNDOT TYPE C INLET PROTECTION). NOTE HAY BALES AND SILT FENCE WRAPPED GRATES ARE NOT EFFECTIVE AND ARE NOT APPROVED FOR USE AS INLET PROTECTION DEVICES.
 5. LOCATE ALL SOIL AND DIRT PILES NO LESS THAN 25 FEET FROM ANY PUBLIC OR PRIVATE ROADWAY OR DRAINAGE CHANNEL. ALL STOCK PILES THAT REMAIN IN PLACE FOR 7 DAYS OR MORE SHALL BE STABILIZED BY MULCHING, VEGETATIVE COVER, TARPING OR OTHER MEANS. TEMPORARY STOCK PILES LOCATED ON PAVED SURFACES MUST BE AT LEAST 2 FEET OR MORE AWAY FROM THE DRAINAGE/GUTTER LINE AND SHALL BE COVERED IF REMAINING MORE THAN 24 HOURS.
 6. MAINTAIN ALL TEMPORARY EROSION CONTROL DEVICES IN PLACE UNTIL THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED. INSPECT TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES ON A WEEKLY BASIS AND REPLACE DETERIORATED, DAMAGED OR ROTTED EROSION CONTROL DEVICES IMMEDIATELY.
 7. MAINTENANCE OF EROSION AND SEDIMENT CONTROL DEVICES SHALL BE PERFORMED WHENEVER THE DEVICE IS 30% FULL, FAILURE TO MAINTAIN EROSION CONTROL DEVICES MAY LEAD TO FURTHER ENFORCEMENT ACTION. WEEKLY INSPECTIONS REQUIRED AND AFTER EACH 1/2" OR MORE RAIN EVENT WITHIN 24 HRS.
 8. READY MIXED CONCRETE AND BATCH PLANT WASHOUTS PROHIBITED WITHIN THE PUBLIC RIGHT OF WAY. DESIGNATE CONCRETE WASHOUT AND MIXING LOCATIONS IN THE EROSION CONTROL PLANS. UNDER NO CIRCUMSTANCES MAY WASHOUT WATER DRAIN ONTO THE PUBLIC RIGHT OF WAY OR INTO THE PUBLIC STORM DRAIN.
 9. TEMPORARILY OR PERMANENTLY STABILIZE ALL DENUDED AREAS WHICH HAVE BEEN FINISH GRADED WITHIN 7-14 DAYS (SLOPE DEPENDENT). USE SEEDING AND MULCHING. EROSION CONTROL MATTING AND/OR SODDING WITH TEMPORARY STAKING IN GREEN SPACE AREAS. USE EARLY APPLICATION OF GRAVEL BASE FOR AREAS DESIGNATED FOR PAVED SURFACING.
 10. REMOVE ALL TEMPORARY SYNTHETIC, STRUCTURAL AND NON-BIODEGRADABLE EROSION AND SEDIMENT CONTROL AFTER THE SITE HAS UNDERGONE FINAL STABILIZATION AND PERMANENT VEGETATION HAS BEEN ESTABLISHED. MINIMUM VEGETATION COVER OF 70% REQUIRED. ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES SHALL BE MAINTAINED UNTIL THE SITE HAS 70% ESTABLISHED VEGETATIVE COVER AND ALL PAVED AREAS HAVE BEEN STABILIZED WITH THE SELECTED PAVEMENT TYPE.
 11. ADDITIONAL EROSION CONTROL MAY BE REQUIRED BY OTHER PERMITTING AGENCIES, IT IS THE RESPONSIBILITY OF THE PROJECT ENGINEER TO VERIFY THAT THE CITY AND ALL OTHER AGENCY REQUIREMENTS ARE MET.
- MINNEAPOLIS CUSTOM
MNDOT SPEC. REF. 2573
NOT TO SCALE
- SEWR-8007

Use standard
plates with borders
from the Public
Works Standard
Specifications and
Details web page.

Change numbers
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STATE OF MINNESOTA.

BEVERLY JO WARMKA

43843

LIC. NO.

DATE



TEMPORARY EROSION CONTROL PLAN

MINNEAPOLIS
DEPARTMENT OF
PUBLIC WORKS

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| DRW: MMA | DATE: 02/19/15 |
| CHK: HRV | DATE: 01/19/15 |
| APP: BJW | DATE: |

MINNEHAHA AVE 26TH TO 24TH

L.P. 600D 6754 S.A.P. 141-191-009

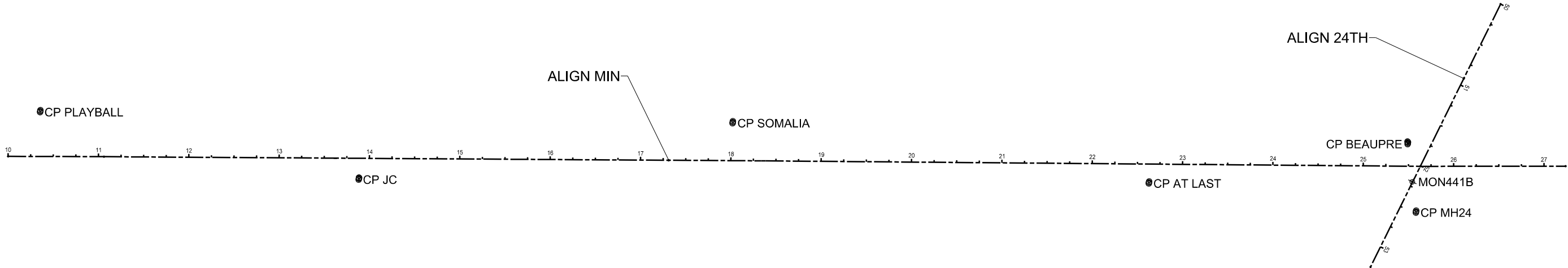
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FILE NAME = 6754-ALIGN-002.dgn
DATE PRINTED = 5/26/2015
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| MINNEHAHA CONTROL POINTS | | | | | |
|--------------------------|----------|--------|------------|------------|-----------|
| Point | Station | OFFSET | Northing | Easting | Elevation |
| PLAY BALL | 10+34.83 | -46.90 | 159907.544 | 537235.417 | 839.522 |
| CP JC | 13+88.17 | 23.66 | 160256.571 | 537145.244 | 838.260 |
| CP SOMALIA | 18+01.26 | -39.28 | 160599.200 | 536904.800 | 839.890 |
| AT LAST | 22+62.42 | 23.70 | 161041.400 | 536759.300 | 837.700 |
| CP BEAUPRE | 25+48.56 | -22.28 | 161278.500 | 536582.700 | 837.050 |
| MON441B | 25+54.67 | 17.23 | 161302.160 | 536627.530 | 836.700 |
| MHA24 | 25+58.60 | 51.31 | 161320.382 | 536656.569 | 836.660 |

| HORIZONTAL ALIGNMENT MIN | | | | | | | | | | |
|--------------------------|-------|----------|------------|------------|--------|---------|--------|-------------|------------|--------------|
| POINT | ALIGN | STATION | DELTA | CURVE DATA | | | | COORDINATES | | AZIMUTH |
| | | | | D | RADIUS | TANGENT | LENGTH | EAST(X) | NORTH(Y) | |
| REVISED 2015 | | | | | | | | | | |
| POB | MIN | 10+00.00 | | | | | 106.09 | 537295.029 | 159897.705 | 333°44'38.0" |
| PI | MIN | 11+06.09 | | | | | 727.34 | 537248.098 | 159992.845 | 333°54'01.3" |
| PC | MIN | 18+33.43 | | | | | | 536928.114 | 160646.025 | 333°54'01.3" |
| PI | MIN | 18+35.93 | 0°07'08.8" | 2°23'14.4" | 2400 | 2.49 | 4.99 | 536927.017 | 160648.265 | P.I. |
| RP | MIN | | | | | | | 539083.387 | 161701.865 | |
| PT | MIN | 18+38.42 | | | | | 724.73 | 536925.924 | 160650.508 | 334°01'10.1" |
| PI | MIN | 25+63.15 | | | | | 160.78 | 536608.446 | 161301.996 | 333°28'24.0" |
| POE | MIN | 27+23.93 | | | | | | 536536.639 | 161445.851 | |

| HORIZONTAL ALIGNMENT 24TH | | | | | | | | | | |
|---------------------------|-------|----------|-------|------------|--------|---------|--------|-------------|------------|-------------|
| POINT | ALIGN | STATION | DELTA | CURVE DATA | | | | COORDINATES | | AZIMUTH |
| | | | | D | RADIUS | TANGENT | LENGTH | EAST(X) | NORTH(Y) | |
| POB | 24TH | 50+00.00 | | | | | 324.81 | 536407.922 | 161301.445 | 89°50'33.8" |
| POE | 24TH | 53+24.81 | | | | | | 536732.728 | 161302.337 | |



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BEVERLY JO WARMKA 43843 DATE

LIC. NO.



MINNEAPOLIS
DEPARTMENT OF
PUBLIC WORKS

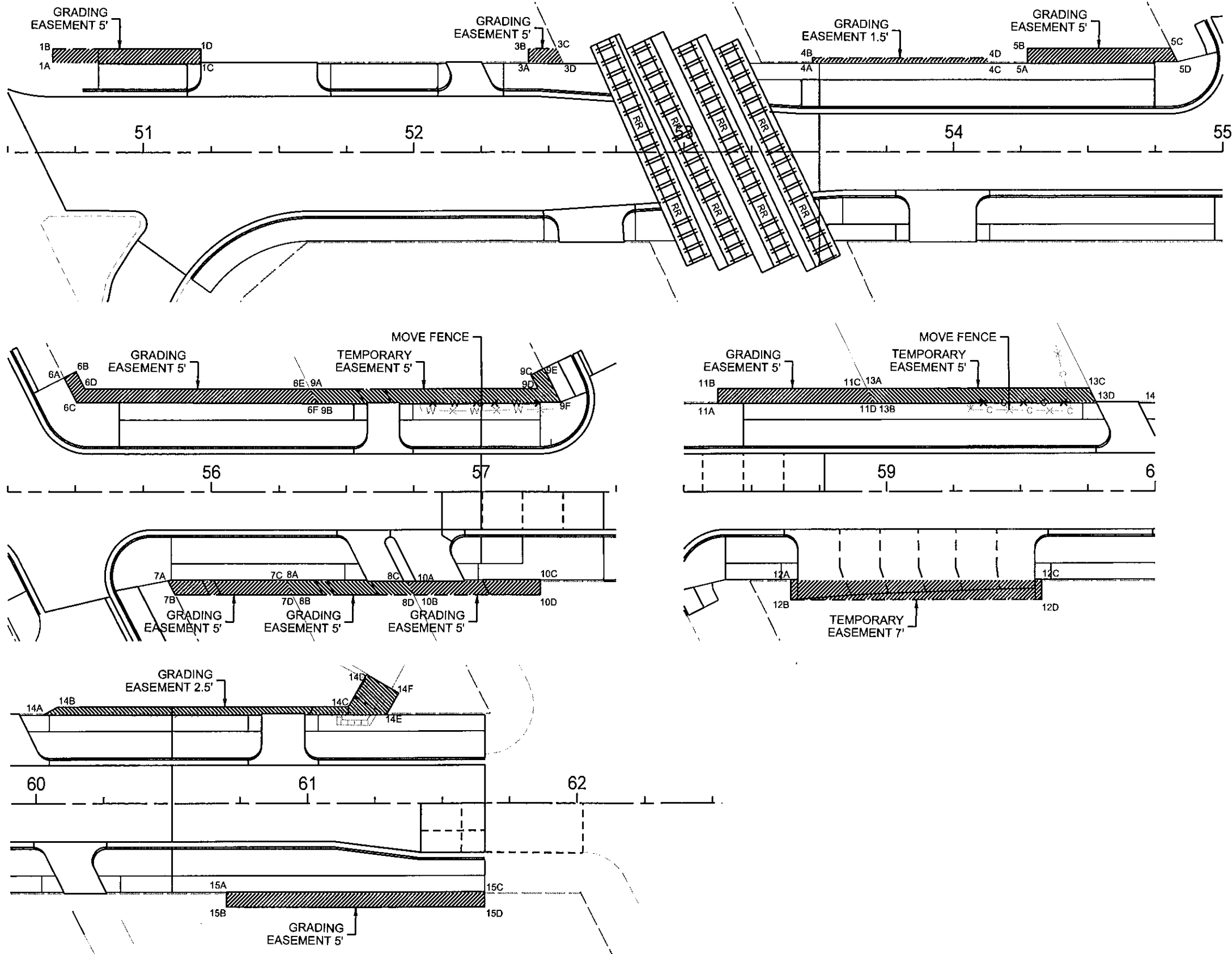
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| CHK: HRV | DATE: 02/18/15 |
| APP: BJW | DATE: |

MINNEHAHA AVE 26TH TO 24TH

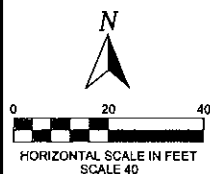
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FILE NAME = 6755-ESMT-002.dgn
DATE PRINTED = 6/29/2015 3:35:35 PM



| EASEMENTS | | | | | |
|-----------------------------------|-------|-------|----------|--------|--|
| AREA | POINT | ALIGN | STATION | OFFSET | OWNER |
| 273 SQ YD | 1A | 38TH | 50+66.65 | -33.00 | A D M MILLING CO P O BOX 1470 DECATUR IL 62525 |
| | 1B | 38TH | 50+66.65 | -38.00 | |
| | 1C | 38TH | 51+21.17 | -33.00 | |
| | 1D | 38TH | 51+21.17 | -38.00 | |
| 52 SQ YD | 3A | 38TH | 52+42.50 | -33.00 | A D M MILLING CO P O BOX 1470 DECATUR IL 62525 |
| | 3B | 38TH | 52+42.50 | -38.00 | |
| | 3C | 38TH | 52+52.91 | -38.00 | |
| | 3D | 38TH | 52+52.91 | -33.00 | |
| 325 SQ YD | 4A | 38TH | 53+47.50 | -33.00 | GENERAL MILLS INC P O BOX 1113 MINNEAPOLIS MN 55440 |
| | 4B | 38TH | 53+47.50 | -38.00 | |
| | 4C | 38TH | 54+12.50 | -33.00 | |
| | 4D | 38TH | 54+12.50 | -38.00 | |
| 272 SQ YD | 5A | 38TH | 54+27.50 | -33.00 | GENERAL MILLS INC P O BOX 1113 MINNEAPOLIS MN 55440 |
| | 5B | 38TH | 54+27.50 | -38.00 | |
| | 5C | 38TH | 54+80.64 | -33.00 | |
| | 5D | 38TH | 54+83.19 | -38.00 | |
| 472 SQ YD | 6A | 38TH | 55+45.86 | -42.17 | COUNTY OF HENNEPIN ATTN: REAL EST. MGR. 701 4TH AVE S SUITE 400 MINNEAPOLIS MN 55415 |
| | 6B | 38TH | 52+50.31 | -44.42 | |
| | 6C | 38TH | 55+50.52 | -33.00 | |
| | 6D | 38TH | 55+53.58 | -38.00 | |
| | 6E | 38TH | 56+36.43 | -38.00 | |
| | 6F | 38TH | 56+38.86 | -33.00 | |
| 217 SQ YD | 7A | 38TH | 55+84.12 | 33.00 | ABDI BORI LLC 2400 MINNEHAHA AVE #201 MINNEAPOLIS MN 55404 |
| | 7B | 38TH | 55+86.66 | 38.00 | |
| | 7C | 38TH | 56+27.65 | 33.00 | |
| | 7D | 38TH | 56+30.04 | 38.00 | |
| 225 SQ YD | 8A | 38TH | 56+27.65 | 33.00 | JOSE J NAPOLES RODRIGUEZ 3121 38TH ST E MINNEAPOLIS MN 55406 |
| | 8B | 38TH | 56+30.04 | 38.00 | |
| | 8C | 38TH | 56+72.53 | 33.00 | |
| | 8D | 38TH | 56+75.00 | 38.00 | |
| 486 SQ YD | 9A | 38TH | 56+36.43 | -38.00 | PEDRO AGUILAR ESTRADA 25 JACKSON AVE S HOPKINS MN 55343 |
| | 9B | 38TH | 56+38.86 | -33.00 | |
| | 9C | 38TH | 57+18.45 | -43.08 | |
| | 9D | 38TH | 57+21.02 | -38.00 | |
| | 9E | 38TH | 57+22.92 | -45.33 | |
| | 9F | 38TH | 57+29.14 | -33.00 | |
| 241 SQ YD | 10A | 38TH | 56+72.53 | 33.00 | DEBORA K CHATMAN 3800 SNELLING AVE MINNEAPOLIS MN 55406 |
| | 10B | 38TH | 56+75.00 | 38.00 | |
| | 10C | 38TH | 57+22.00 | 33.00 | |
| | 10D | 38TH | 57+22.00 | 38.00 | |
| 282 SQ YD | 11A | 38TH | 58+37.50 | -33.00 | MPLS PUBLIC HOUSING AUTH ATTN COMPTROLLERS OFF 1001 WASHINGTON AVE N MINNEAPOLIS MN 55401 |
| | 11B | 38TH | 58+37.50 | -38.00 | |
| | 11C | 38TH | 58+92.65 | -33.00 | |
| | 11D | 38TH | 58+95.09 | -38.00 | |
| 466 SQ YD | 12A | 38TH | 58+64.48 | 33.00 | CITY OF MINNEAPOLIS PUBLIC WORKS R O W 309 2ND AVE S #201 MINNEAPOLIS MN 55401 |
| | 12B | 38TH | 58+64.48 | 38.00 | |
| | 12C | 38TH | 59+57.77 | 33.00 | |
| | 12D | 38TH | 59+57.77 | 38.00 | |
| 415 SQ YD | 13A | 38TH | 58+92.65 | -38.00 | WALLACE HICKS JR 3210 38TH ST E MINNEAPOLIS MN 55406 |
| | 13B | 38TH | 58+95.09 | -33.00 | |
| | 13C | 38TH | 59+75.59 | -38.00 | |
| | 13D | 38TH | 59+78.07 | -33.00 | |
| 441 SQ YD | 14A | 38TH | 60+03.39 | -33.00 | TABS LLC 3501 37TH AVE S MINNEAPOLIS MN 55406 |
| | 14B | 38TH | 60+07.98 | -35.50 | |
| | 14C | 38TH | 61+15.15 | -35.50 | |
| | 14D | 38TH | 61+22.43 | -47.08 | |
| | 14E | 38TH | 61+29.44 | 33.00 | |
| | 14F | 38TH | 61+33.90 | -40.54 | |
| 479 SQ YD | 15A | 38TH | 60+70.00 | 33.00 | RALPH W JEWELL FMLY L P REALTY INVSTRS RES INC 236 SYNDICATE ST S ST PAUL MN 55105 |
| | 15B | 38TH | 60+70.00 | 38.00 | |
| | 15C | 38TH | 61+65.78 | 33.00 | |
| | 15D | 38TH | 61+65.78 | 38.00 | |
| 4646 SQ YD TOTAL | | | | | |
| Change numbers to 24 OF 96 | | | | | EA1 OF EA1 |
| 38TH ST E | | | | | |
| L.P. 600D 6755 S.A.P. 141-253-009 | | | | | |



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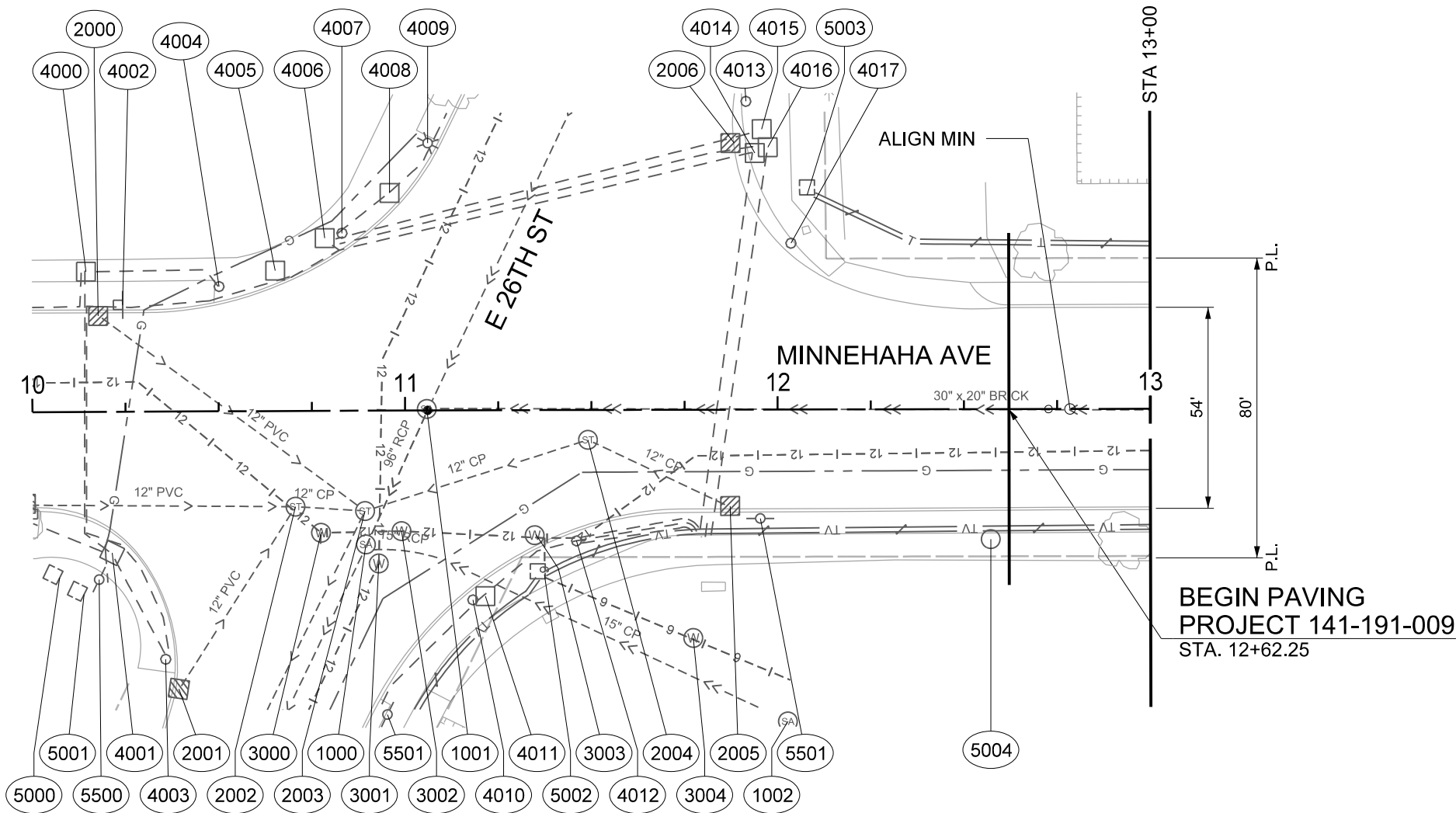
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CHRISTOPHER M. ENGELMANN
LIC. NO. 43350
DATE



| EASEMENT PLAN | | | |
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| MINNEAPOLIS DEPARTMENT OF PUBLIC WORKS | | DRW: JFN | DATE: 06/23/15 |
| | | CHK: JMK | DATE: 06/29/15 |
| | | APP: CME | DATE: |

Include sewer laterals



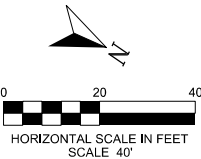
| BEGINNING TO STA 13+00 | | | | | | | | | |
|----------------------------|---|--------------------------------------|--------|------------------|----------------------------|----------------------------|--------------------------------------|---------------------------------|--------|
| N U M B E R | A L I G N M E N T | L O C A T I O N | | T Y P E | A D J U S T | R E M O V E | R E L O C A T E | R E M A R K S | |
| | | | | | | | | | |
| | | STATION | OFFSET | | | | | | |
| | | | LEFT | RIGHT | | | | | |
| 1000 | MIN | 10+89.35 | | 35.93 | SAM | | | | N.I.P. |
| 1001 | MIN | 11+05.87 | -0.36 | | SAM | | | | N.I.P. |
| 1002 | MIN | 12+02.61 | | 83.70 | SAM | | | | N.I.P. |
| 2000 | MIN | 10+17.78 | -25.74 | | MCB | | | | N.I.P. |
| 2001 | MIN | 10+38.96 | | 74.43 | MCB | | | | N.I.P. |
| 2002 | MIN | 10+70.49 | | 25.69 | SDM | | | | N.I.P. |
| 2003 | MIN | 10+89.16 | | 26.95 | SDM | | | | N.I.P. |
| 2004 | MIN | 11+49.09 | | 8.01 | SDM | | | | N.I.P. |
| 2005 | MIN | 11+87.22 | | 25.85 | MCB | | | | N.I.P. |
| 2006 | MIN | 11+87.49 | -71.56 | | MCB | | | | N.I.P. |
| 3000 | MIN | 10+77.32 | | 32.73 | MWT | | | | N.I.P. |
| 3001 | MIN | 10+92.78 | | 41.05 | MWT | | | | N.I.P. |
| 3002 | MIN | 10+98.92 | | 32.39 | MWT | | | | N.I.P. |
| 3003 | MIN | 11+34.72 | | 33.57 | MWT | | | | N.I.P. |
| 3004 | MIN | 11+77.25 | | 61.24 | MWT | | | | N.I.P. |
| 4000 | MIN | 10+14.53 | -37.66 | | HHL | | | | N.I.P. |
| 4001 | MIN | 10+21.25 | | 37.87 | HHL | | | | N.I.P. |
| 4002 | MIN | 10+24.37 | -28.68 | | SGN | | | | N.I.P. |
| 4003 | MIN | 10+35.47 | | 66.48 | TSB | | | | N.I.P. |
| 4004 | MIN | 10+50.27 | -33.48 | | TSB | | | | N.I.P. |
| 4005 | MIN | 10+65.36 | -37.68 | | HHL | | | | N.I.P. |
| 4006 | MIN | 10+78.66 | -46.36 | | HHL | | | | N.I.P. |
| 4007 | MIN | 10+83.31 | -47.62 | | TSB | | | | N.I.P. |
| 4008 | MIN | 10+96.13 | -58.37 | | HHL | | | | N.I.P. |
| 4009 | MIN | 11+06.23 | -71.72 | | VLP | | | | N.I.P. |
| 4010 | MIN | 11+18.12 | | 50.90 | TSB | | | | N.I.P. |
| 4011 | MIN | 11+21.49 | | 49.90 | HHL | | | | N.I.P. |
| 4012 | MIN | 11+45.96 | | 35.13 | TSB | | | | N.I.P. |
| 4013 | MIN | 11+91.65 | -82.74 | | TSB | | | | N.I.P. |
| 4014 | MIN | 11+94.03 | -68.88 | | HHL | | | | N.I.P. |
| 4015 | MIN | 11+95.89 | -75.28 | | HHL | | | | N.I.P. |
| 4016 | MIN | 11+97.50 | -70.42 | | HHL | | | | N.I.P. |
| 4017 | MIN | 12+03.68 | -44.65 | | TSB | | | | N.I.P. |
| 5000 | MIN | 10+07.11 | | 44.51 | MTL | | | | N.I.P. |
| 5001 | MIN | 10+13.63 | | 49.00 | MTL | | | | N.I.P. |
| 5002 | MIN | 11+37.33 | | 44.13 | MTL | | | | N.I.P. |
| 5003 | MIN | 12+08.04 | -57.62 | | MTL | | | | N.I.P. |
| 5004 | MIN | 12+57.13 | | 34.91 | MTL | | | | N.I.P. |
| 5500 | MIN | 10+17.71 | | 45.01 | PPL | | | | N.I.P. |
| 5501 | MIN | 10+94.91 | | 81.59 | PPL | | | | N.I.P. |
| 5502 | MIN | 11+95.29 | | 29.21 | PPL | | | | N.I.P. |

| LEGEND | | | |
|--------|--------------------------|--------|----------------------------|
| MTL | : COMMUNICATION MANHOLE | CAL | : TRAFFIC LIGHTING CABINET |
| MGS | : GAS MANHOLE | CSV | : TRAFFIC SERVICE CABINET |
| MGG | : GAS VALVE | TSB | : TRAFFIC SIGNAL BASE |
| MEL | : POWER MANHOLE | CSG | : TRAFFIC SIGNAL CABINET |
| PPL | : POWER POLE | SPM | : TRAFFIC SIGNAL MASTARM |
| SAM | : SANITARY SEWER MANHOLE | PDL | : TRAFFIC SIGNAL PEDESTAL |
| MCB | : STORMSEWER CATCH BASIN | STL | : TRAFFIC STREET LIGHT |
| CCB | : STORMSEWER CB CIRCULAR | HYD | : WATER HYDRANT |
| MDH | : STORMSEWER DRILLHOLE | MWT | : WATER MANHOLE |
| SDM | : STORMSEWER MANHOLE | STB | : WATER STOP BOX |
| STM | : STEAM MANHOLE | GVC | : WATER VALVE |
| MON | : SURVEY MONUMENT | MJK | : UNKNOWN MANHOLE |
| SGN | : SIGN | N.I.P. | : NOT IN PROJECT |
| HHL | : TRAFFIC HAND HOLE | 1" | : BY PRIVATE UTILITY CO. |

Change numbers
to 25 OF 96

FILE NAME = 6754-EXUTIL-009.dgn
DATE PRINTED = 5/26/2015
8:28:32 AM

FILE NAME = 6754-EXUTIL-009.dgn



| NO. | DATE | DRW | CKD | APP | REVISION |
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BEVERLY JO WARMKA
LIC. NO. 43843
DATE



MINNEAPOLIS
DEPARTMENT OF
PUBLIC WORKS

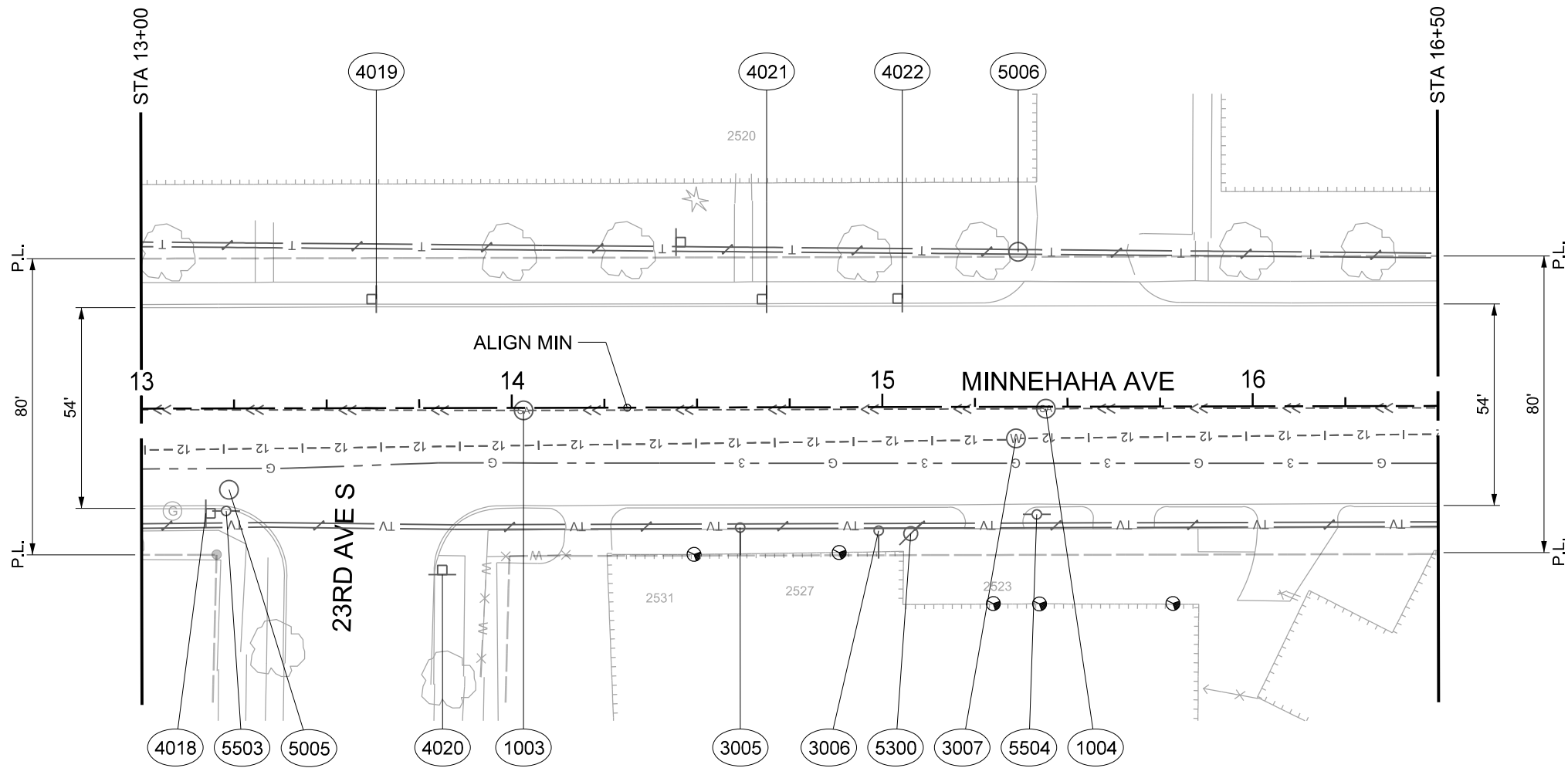
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| DRW: JFN | DATE: 03/17/15 |
| CHK: HRV | DATE: |
| APP: BJW | DATE: |

MINNEHAHA AVE 26TH TO 24TH

L.P. 600D 6754 S.A.P. 141-191-009

U1
OF
U5

Include sewer laterals



| STA 13+00 TO 16+50 | | | | | | | | | |
|----------------------------|---|--------------------------------------|-------------------------|------------------|----------------------------|----------------------------|--------------------------------------|---------------------------------|-------|
| N U M B E R | A L I G N M E N T | L O C A T I O N | | T Y P E | A D J U S T | R E M O V E | R E L O C A T E | R E M A R K S | |
| | | | | | | | | | |
| | | STATION | OFFSET LEFT RIGHT | | | | | | |
| 1003 | MIN | 14+03.16 | | 0.70 | SAM | 1 | | | |
| 1004 | MIN | 15+44.15 | | 0.52 | SAM | 1 | | | |
| 3005 | MIN | 14+61.56 | | 32.46 | STB | 1 | | | |
| 3006 | MIN | 14+98.95 | | 33.38 | STB | 1 | | | |
| 3007 | MIN | 15+36.07 | | 8.54 | MWT | 1 | | | |
| 4018 | MIN | 13+17.35 | | 28.32 | SGN | | 1 | | |
| 4019 | MIN | 13+63.46 | -29.45 | | SGN | | 1 | | |
| 4020 | MIN | 13+81.17 | | 44.99 | SGN | | 1 | | |
| 4021 | MIN | 14+68.83 | -29.22 | | SGN | | 1 | | |
| 4022 | MIN | 15+05.46 | -29.32 | | SGN | | 1 | | |
| 5005 | MIN | 13+23.63 | | 21.93 | MTL | 1* | | | |
| 5006 | MIN | 15+36.76 | -41.84 | | MTL | 1* | | | |
| 5300 | MIN | 15+07.62 | | 34.17 | MGG | 1* | | | |
| 5503 | MIN | 13+22.85 | | 27.69 | PPL | | 1* | | |
| 5504 | MIN | 15+41.64 | | 29.05 | PPL | | | | LEAVE |

| LEGEND | |
|-------------------------------|--------------------------------|
| MTL : COMMUNICATION MANHOLE | CAL : TRAFFIC LIGHTING CABINET |
| MGS : GAS MANHOLE | CSV : TRAFFIC SERVICE CABINET |
| MGG : GAS VALVE | TSB : TRAFFIC SIGNAL BASE |
| MEL : POWER MANHOLE | CSG : TRAFFIC SIGNAL CABINET |
| PPL : POWER POLE | SPM : TRAFFIC SIGNAL MASTARM |
| SAM : SANITARY SEWER MANHOLE | PDL : TRAFFIC SIGNAL PEDESTAL |
| MCB : STORM SEWER CATCH BASIN | STL : TRAFFIC STREET LIGHT |
| CCB : STORM SEWER CB CIRCULAR | HYD : WATER HYDRANT |
| MDH : STORM SEWER DRILLHOLE | MWT : WATER MANHOLE |
| SDM : STORM SEWER MANHOLE | STB : WATER STOP BOX |
| STM : STEAM MANHOLE | GVC : WATER VALVE |
| MON : SURVEY MONUMENT | MUK : UNKNOWN MANHOLE |
| SGN : SIGN | N.I.P. : NOT IN PROJECT |
| HHL : TRAFFIC HAND HOLE | 1* : BY PRIVATE UTILITY CO. |

Change numbers
to 26 OF 96

FILE NAME = 6754-EXUTIL-010.dgn
DATE PRINTED = 5/26/2015
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0 20 40
HORIZONTAL SCALE IN FEET
SCALE 40'

| NO. | DATE | DRW | CKD | APP | REVISION |
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BEVERLY JO WARMKA 43843 DATE

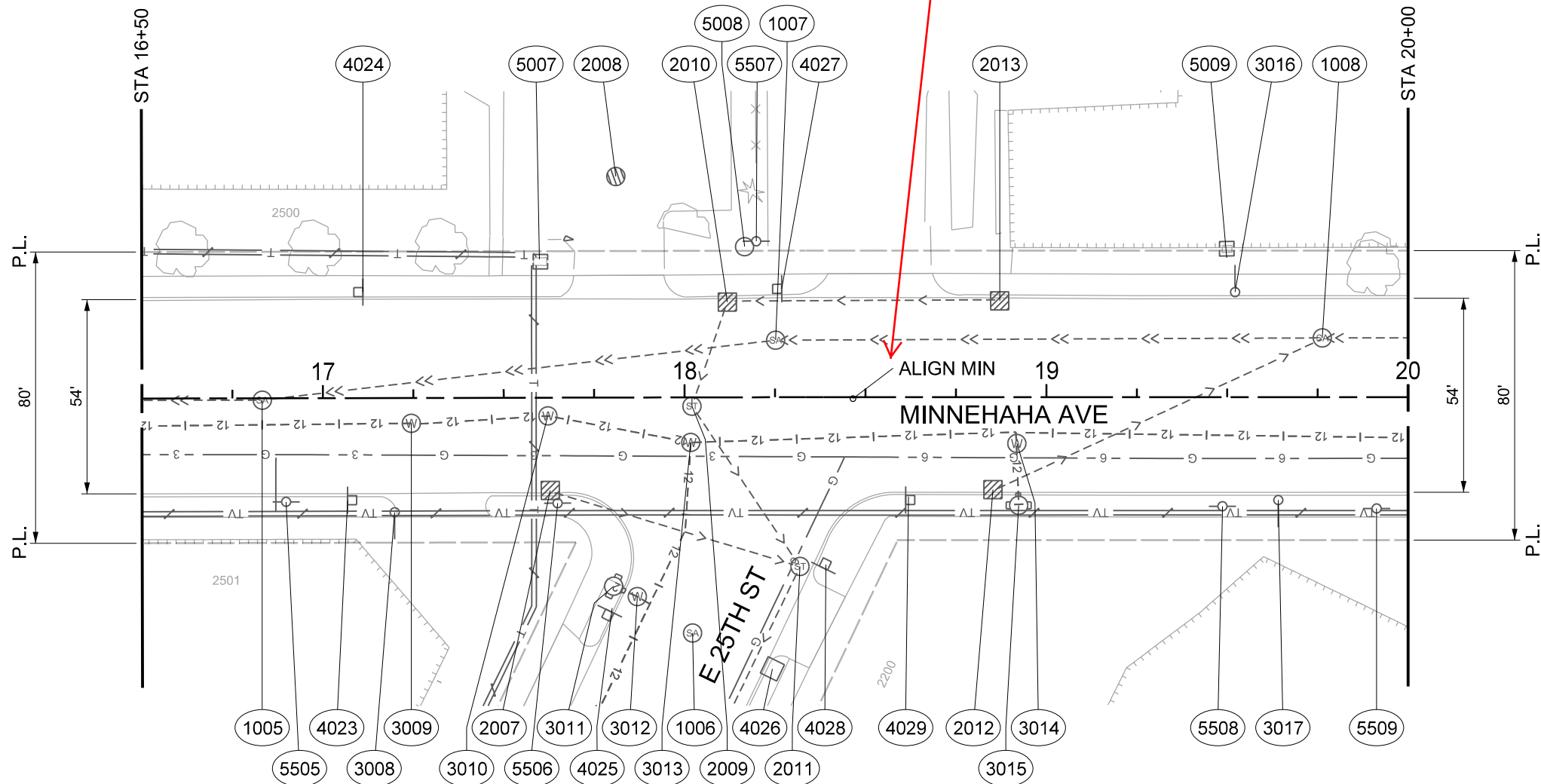
LIC. NO.

| EXISTING UTILITY PLAN | | | | MINNEAPOLIS DEPARTMENT OF PUBLIC WORKS | | MINNEHAHA AVE 26TH TO 24TH | |
|-----------------------|----------------|--------------------------------------|--|--|--|----------------------------|--|
| DRW: JFN | DATE: 03/17/15 | L.P. 600D 6754 S.A.P. 141-191-009 | | | | | |
| CHK: HRV | DATE: | | | | | | |
| APP: BJW | DATE: | | | | | | |

U2
OF
U5

Include sewer laterals

add leader wing
(see page U2)



STA 16+50 TO 20+00

| N U M B E R | A L I G N M E N T | L O C A T I O N | | T Y P E | A D J U S T | R E M O V E | R E L O C A T E | R E M A R K S |
|----------------------------|---|--------------------------------------|--------|------------------|----------------------------|----------------------------|--------------------------------------|---------------------------------|
| | | | | | | | | |
| | | STATION | OFFSET | | | | | |
| | | | LEFT | RIGHT | | | | |
| 1005 | MIN | 16+83.26 | | 0.52 | SAM | 1 | | |
| 1006 | MIN | 18+02.08 | | 65.15 | SAM | 1 | | |
| 1007 | MIN | 18+25.21 | -15.77 | | SAM | 1 | | |
| 1008 | MIN | 19+76.28 | -16.37 | | SAM | 1 | | |
| 2007 | MIN | 17+62.84 | | 25.63 | MCB | | 1 | |
| 2008 | MIN | 17+81.12 | -61.11 | | CCB | | | LEAVE |
| 2009 | MIN | 18+02.03 | | 2.43 | SDM | 1 | | |
| 2010 | MIN | 18+11.90 | -26.31 | | MCB | | 1 | |
| 2011 | MIN | 18+31.82 | | 46.80 | SDM | 1 | | |
| 2012 | MIN | 18+85.23 | | 25.56 | MCB | | 1 | |
| 2013 | MIN | 18+87.11 | -26.63 | | MCB | | 1 | |
| 3008 | MIN | 17+19.79 | | 31.59 | STB | 1 | | |
| 3009 | MIN | 17+24.46 | | 7.01 | MWT | 1 | | |
| 3010 | MIN | 17+62.22 | | 5.04 | MWT | 1 | | |
| 3011 | MIN | 17+80.30 | | 52.18 | HYD | 1 | | |
| 3012 | MIN | 17+86.81 | | 55.03 | MWT | 1 | | |
| 3013 | MIN | 18+01.67 | | 12.46 | MWT | 1 | | |
| 3014 | MIN | 18+91.83 | | 12.81 | MWT | 1 | | |
| 3015 | MIN | 18+92.36 | | 29.90 | HYD | 1 | | |
| 3016 | MIN | 19+52.17 | -29.04 | | STB | 1 | | |
| 3017 | MIN | 19+64.11 | | 28.46 | STB | 1 | | |
| 4023 | MIN | 17+06.80 | | 28.23 | SGN | | 1 | |
| 4024 | MIN | 17+11.16 | -29.30 | | SGN | | 1 | |
| 4025 | MIN | 17+79.19 | | 59.04 | SGN | | 1 | |
| 4026 | MIN | 18+24.11 | | 75.10 | HHL | 1 | | |
| 4027 | MIN | 18+26.92 | -29.96 | | SGN | | 1 | |
| 4028 | MIN | 18+38.38 | | 47.23 | SGN | | 1 | |
| 4029 | MIN | 18+61.15 | | 28.46 | SGN | | 1 | |
| 5007 | MIN | 17+59.95 | -38.29 | | MTL | 1* | | |
| 5008 | MIN | 18+16.68 | -41.62 | | MTL | 1* | | N.I.P. |
| 5009 | MIN | 19+49.89 | -38.48 | | MTL | 1* | | |
| 5505 | MIN | 16+89.79 | | 28.65 | PPL | | | LEAVE |
| 5506 | MIN | 17+64.85 | | 29.18 | PPL | | | LEAVE |
| 5507 | MIN | 18+19.91 | -43.13 | | PPL | | | LEAVE |
| 5508 | MIN | 19+48.69 | | 30.17 | PPL | | | LEAVE |
| 5509 | MIN | 19+91.30 | | 30.79 | PPL | | | LEAVE |

LEGEND

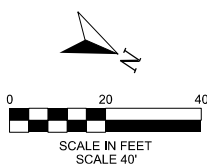
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|------------------------------|--------------------------------|
| MTL : COMMUNICATION MANHOLE | CAL : TRAFFIC LIGHTING CABINET |
| MGS : GAS MANHOLE | CSV : TRAFFIC SERVICE CABINET |
| MGG : GAS VALVE | TSB : TRAFFIC SIGNAL BASE |
| MEL : POWER MANHOLE | CSG : TRAFFIC SIGNAL CABINET |
| PPL : POWER POLE | SPM : TRAFFIC SIGNAL MASTARM |
| SAM : SANITARY SEWER MANHOLE | PDL : TRAFFIC SIGNAL PEDESTAL |
| MCB : STORMSEWER CATCH BASIN | STL : TRAFFIC STREET LIGHT |
| CCB : STORMSEWER CB CIRCULAR | HYD : WATER HYDRANT |
| MDH : STORMSEWER DRILLHOLE | MWT : WATER MANHOLE |
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| STM : STEAM MANHOLE | GVC : WATER VALVE |
| MON : SURVEY MONUMENT | MJK : UNKNOWN MANHOLE |
| SGN : SIGN | N.I.P. : NOT IN PROJECT |
| HHL : TRAFFIC HAND HOLE | 1* : BY PRIVATE UTILITY CO. |

Change numbers
to 27 OF 96

U3
OF
U5

FILE NAME = 6754-EXUTIL-011.dgn
DATE PRINTED = 5/26/2015 8:28:38 AM

SCALE IN FEET
SCALE 40'



| NO. | DATE | DRW | CKD | APP | REVISION |
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BEVERLY JO WARMKA

43843

LIC. NO.

DATE



MINNEAPOLIS
DEPARTMENT OF
PUBLIC WORKS

DRW: JFN

DATE: 03/17/15

CHK: HRV

DATE:

APP: BJW

DATE:

EXISTING UTILITY PLAN

MINNEHAHA AVE 26TH TO 24TH

L.P. 600D 6754 S.A.P. 141-191-009

Include sewer laterals

add leader wing
(see page U2)

Wrong size (see
page U2)

STA 20+00 TO 23+50

| N U M B E R | A L I G N M E N T | LOCATION | | T Y P E | A D J U S T | R E M O V E | R E L O C A T E | R E M A R K S |
|----------------------------|---|----------|--------|------------------|----------------------------|----------------------------|--------------------------------------|---------------------------------|
| | | | | | | | | |
| | | STATION | OFFSET | | | | | |
| | | | LEFT | RIGHT | | | | |
| 1009 | MIN | 21+27.31 | -16.61 | | SAM | 1 | | |
| 1010 | MIN | 22+79.51 | -17.43 | | SAM | 1 | | |
| 3018 | MIN | 20+74.97 | | 11.58 | MWT | 1 | | |
| 3019 | MIN | 22+12.12 | -29.86 | | STB | 1 | | |
| 4030 | MIN | 22+43.57 | | 28.70 | HHL | 1 | | |
| 5010 | MIN | 21+65.54 | | 40.00 | MTL | | | LEAVE |
| 5011 | MIN | 22+63.68 | | 35.96 | MTL | 1 | | |
| 5301 | MIN | 22+75.14 | | 17.08 | MGG | 1 | | |
| 5510 | MIN | 20+33.82 | | 58.54 | PPL | | | LEAVE |
| 5511 | MIN | 21+05.03 | | 29.54 | PPL | | | LEAVE |
| 5512 | MIN | 22+51.67 | | 28.98 | PPL | | | LEAVE |

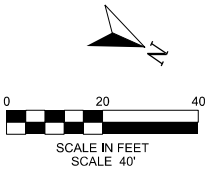
| LEGEND | |
|------------------------------|--------------------------------|
| MTL : COMMUNICATION MANHOLE | CAL : TRAFFIC LIGHTING CABINET |
| MGS : GAS MANHOLE | CSV : TRAFFIC SERVICE CABINET |
| MGG : GAS VALVE | TSB : TRAFFIC SIGNAL BASE |
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| PPL : POWER POLE | SPM : TRAFFIC SIGNAL MASTARM |
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| STM : STEAMMANHOLE | GVC : WATER VALVE |
| MON : SURVEY MONUMENT | MUK : UNKNOWN MANHOLE |
| SGN : SIGN | N.I.P. : NOT IN PROJECT |
| HHL : TRAFFIC HAND HOLE | 1" : BY PRIVATE UTILITY CO. |

Change numbers
to 28 OF 96

U4
OF
U5

FILE NAME = 6754-EXUTIL-012.dgn
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SCALE 40'



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BEVERLY JO WARMKA
LIC. NO. 43843
DATE

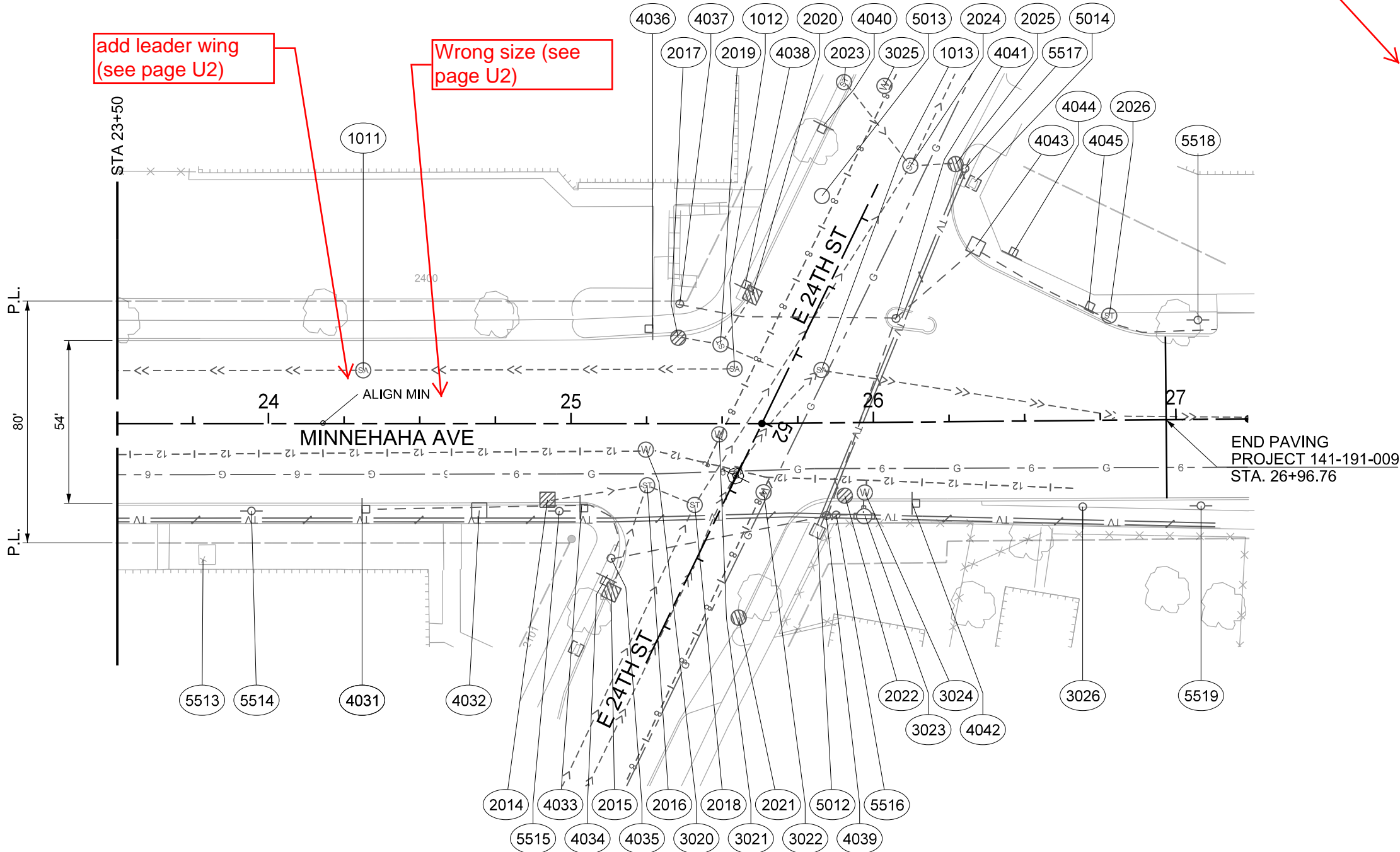
| EXISTING UTILITY PLAN | | | | MINNEHAHA AVE 26TH TO 24TH | |
|---|----------------------|--|----------|----------------------------|--------------------------------------|
|  | MINNEAPOLIS | | DRW: JFN | DATE: 02/19/15 | L.P. 600D 6754 S.A.P. 141-191-009 |
| | DEPARTMENT OF | | CHK: HRV | DATE: 02/19/15 | |
| | PUBLIC WORKS | | APP: BJW | DATE: | |

Include sewer laterals

add leader wing
(see page U2)

Wrong size (see
page U2)

Add monuments



STA 23+50 TO END

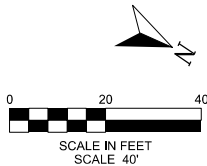
| N U M B E R | A L I G N M E N T | LOCATION | | T Y P E | A D J U S T | R E M O V E | R E L O C A T E | R E M A R K S |
|----------------------------|---|----------|---------|------------------|----------------------------|----------------------------|--------------------------------------|---------------------------------|
| | | | | | | | | |
| | | STATION | OFFSET | | | | | |
| | | | LEFT | | | | | |
| | | | RIGHT | | | | | |
| 1011 | MIN | 24+31.35 | -17.62 | SAM | 1 | | | |
| 1012 | MIN | 25+54.09 | -18.08 | SAM | 1 | | | |
| 1013 | MIN | 25+83.01 | -17.54 | SAM | 1 | | | |
| 2014 | MIN | 24+92.24 | 25.19 | MCB | | 1 | | |
| 2015 | MIN | 25+13.32 | 55.77 | MCB | | 1 | | |
| 2016 | MIN | 25+25.20 | 20.44 | SDM | | 1 | | |
| 2017 | MIN | 25+35.46 | -28.40 | CCB | | 1 | | |
| 2018 | MIN | 25+40.91 | 26.90 | SDM | 1 | | | |
| 2019 | MIN | 25+49.45 | -26.20 | SDM | | 1 | | |
| 2020 | MIN | 25+55.43 | 64.18 | CCB | | 1 | | |
| 2021 | MIN | 25+59.92 | -42.52 | MCB | | 1 | | |
| 2022 | MIN | 25+90.33 | 24.10 | CCB | | 1 | | |
| 2023 | MIN | 25+91.38 | -112.64 | SDM | | | | N.I.P. |
| 2024 | MIN | 26+13.03 | -84.79 | SDM | 1 | | | |
| 2025 | MIN | 26+27.98 | -85.19 | CCB | | 1 | | |
| 2026 | MIN | 26+78.30 | -34.55 | SDM | 1 | | | |
| 3020 | MIN | 25+24.76 | 8.64 | MWT | 1 | | | |
| 3021 | MIN | 25+49.01 | 3.55 | MWT | 1 | | | |
| 3022 | MIN | 25+63.47 | 22.70 | MWT | 1 | | | |
| 3023 | MIN | 25+96.67 | 30.98 | HYD | 1 | | | |
| 3024 | MIN | 25+96.94 | 23.13 | MWT | 1 | | | |
| 3025 | MIN | 26+04.71 | -111.27 | MWT | 1 | | | |
| 3026 | MIN | 26+68.92 | 28.51 | STB | 1 | | | |
| 4031 | MIN | 24+30.97 | 28.32 | SGN | | | 1 | |
| 4032 | MIN | 24+69.66 | 28.75 | HHL | 1 | | | |
| 4033 | MIN | 25+03.02 | 27.93 | SGN | | | 1 | |
| 4034 | MIN | 25+11.77 | 50.99 | SGN | | | 1 | |
| 4035 | MIN | 25+13.28 | 44.54 | TSB | | | | |
| 4036 | MIN | 25+27.01 | -31.37 | SGN | | | | LEAVE |
| 4037 | MIN | 25+35.99 | -39.60 | TSB | | | | N.I.P. |
| 4038 | MIN | 25+57.42 | -44.75 | SGN | | | 1 | |
| 4039 | MIN | 25+84.25 | 30.59 | TSB | 1 | | | |
| 4040 | MIN | 25+84.47 | -98.40 | SGN | | | | N.I.P. |
| 4041 | MIN | 26+07.80 | -34.33 | TSB | | | | |
| 4042 | MIN | 26+12.54 | 26.86 | SGN | | | 1 | |
| 4043 | MIN | 26+34.41 | -57.89 | HHL | | | 1 | |
| 4044 | MIN | 26+46.28 | -54.80 | SGN | | | 1 | |
| 4045 | MIN | 26+71.41 | -36.65 | SGN | | | 1 | |
| 5012 | MIN | 25+81.09 | 35.92 | MTL | 1* | | | |
| 5013 | MIN | 25+83.70 | -75.08 | MTL | 1* | | | |
| 5014 | MIN | 26+34.20 | -79.17 | MTL | 1* | | | |
| 5513 | MIN | 23+78.41 | 45.02 | MEL | | | | N.I.P. |
| 5514 | MIN | 23+94.38 | 28.90 | PPL | | | | LEAVE |
| 5515 | MIN | 24+96.13 | 28.94 | PPL | | | | LEAVE |
| 5516 | MIN | 25+87.42 | 30.45 | PPL | | | 1* | |
| 5517 | MIN | 26+31.08 | -83.69 | PPL | | | | LEAVE |
| 5518 | MIN | 27+07.61 | -32.88 | PPL | | | | LEAVE |
| 5519 | MIN | 27+08.03 | 28.56 | PPL | | | | LEAVE |

| LEGEND | |
|-------------------------------|--------------------------------|
| MTL : COMMUNICATION MANHOLE | CAL : TRAFFIC LIGHTING CABINET |
| MGS : GAS MANHOLE | CSV : TRAFFIC SERVICE CABINET |
| MGG : GAS VALVE | TSB : TRAFFIC SIGNAL BASE |
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| MON : SURVEY MONUMENT | MUK : UNKNOWN MANHOLE |
| SGN : SIGN | N.I.P. : NOT IN PROJECT |
| HHL : TRAFFIC HAND HOLE | 1* : BY PRIVATE UTILITY CO. |

Change numbers
to 29 OF 96

FILE NAME = 6754-EXUTIL-013.dgn
DATE PRINTED = 5/26/2015 8:28:42 AM

SCALE IN FEET
SCALE 40'



| NO. | DATE | DRW | CKD | APP | REVISION |
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BEVERLY JO WARMKA

43843
LIC. NO.

DATE



MINNEAPOLIS
DEPARTMENT OF
PUBLIC WORKS

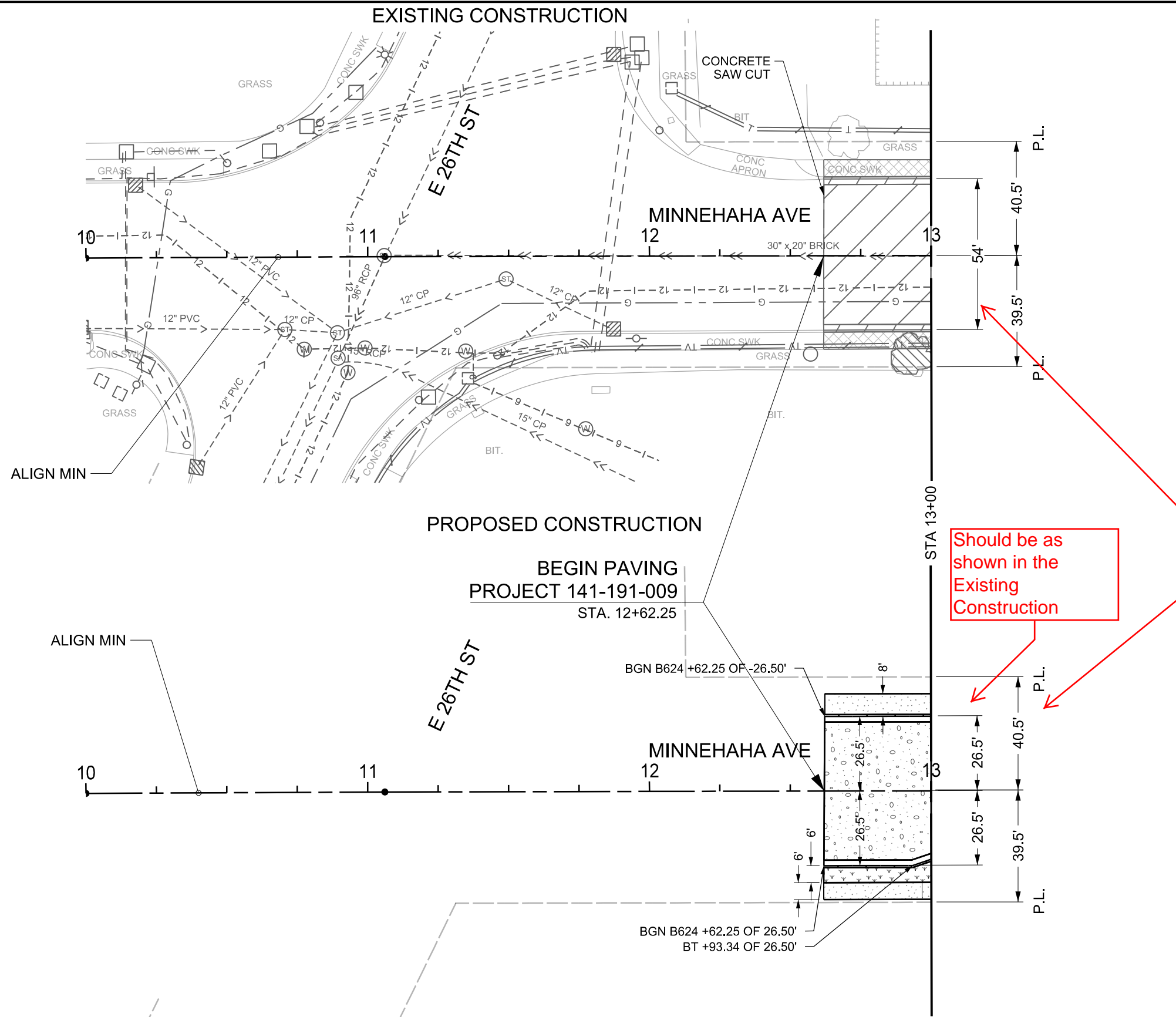
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| DRW: JFN | DATE: 03/17/15 |
| CHK: HRV | DATE: |
| APP: BJW | DATE: |

MINNEHAHA AVE 26TH TO 24TH

L.P. 600D 6754 S.A.P. 141-191-009

U5
OF
U5

FILE NAME = 6754-PVNG-001.dgn
DATE PRINTED = 5/26/2015 8:28:46 AM



MINNEHAHA AVE 26TH TO 24TH

STA 10+00.00 TO 13+00.00

| LEGEND | ITEM NUMBER | DESCRIPTION | UNIT | ESTIMATED TOTAL |
|--------|-------------|---------------------------------------|--------|-----------------|
| | 2101.502 | CLEARING | TREE | 1 |
| | 2101.507 | GRUBBING | TREE | 1 |
| | 2103.507 | REMOVE CURB AND GUTTER | LIN FT | 76 |
| | 2103.507 | REMOVE CONCRETE SIDEWALK | SQ FT | 457 |
| | 2103.507 | REMOVE CONCRETE PAVEMENT | SQ YD | 210 |
| | 2104.511 | SAWING CONCRETE PAVEMENT (FULL DEPTH) | LIN FT | 50 |
| | 2521.501 | 3.5" CONCRETE WALK | SQ FT | 506 |
| | 2531.501 | CONCRETE CURB & GUTTER DESIGN B624 | LIN FT | 76 |
| | 2575.505 | SODDING TYPE LAWN | SQ YD | 23 |
| | N/A | PAVING AREA | SQ YD | 206 |

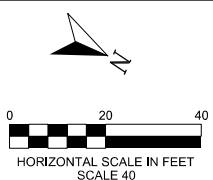
Add:
Saw/sealed Joint
Bituminous Seal Coat

Example if evenly split.

Example if not evenly split.

Should be as shown in the Existing Construction

Change numbers to 30 OF 96



| NO. | DATE | DRW | CKD | APP | REVISION |
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BEVERLY JO WARMKA
LIC. NO. 43843
DATE

MINNEAPOLIS
DEPARTMENT OF
PUBLIC WORKS

DRW: JFN
CHK: HRV
APP: BJW

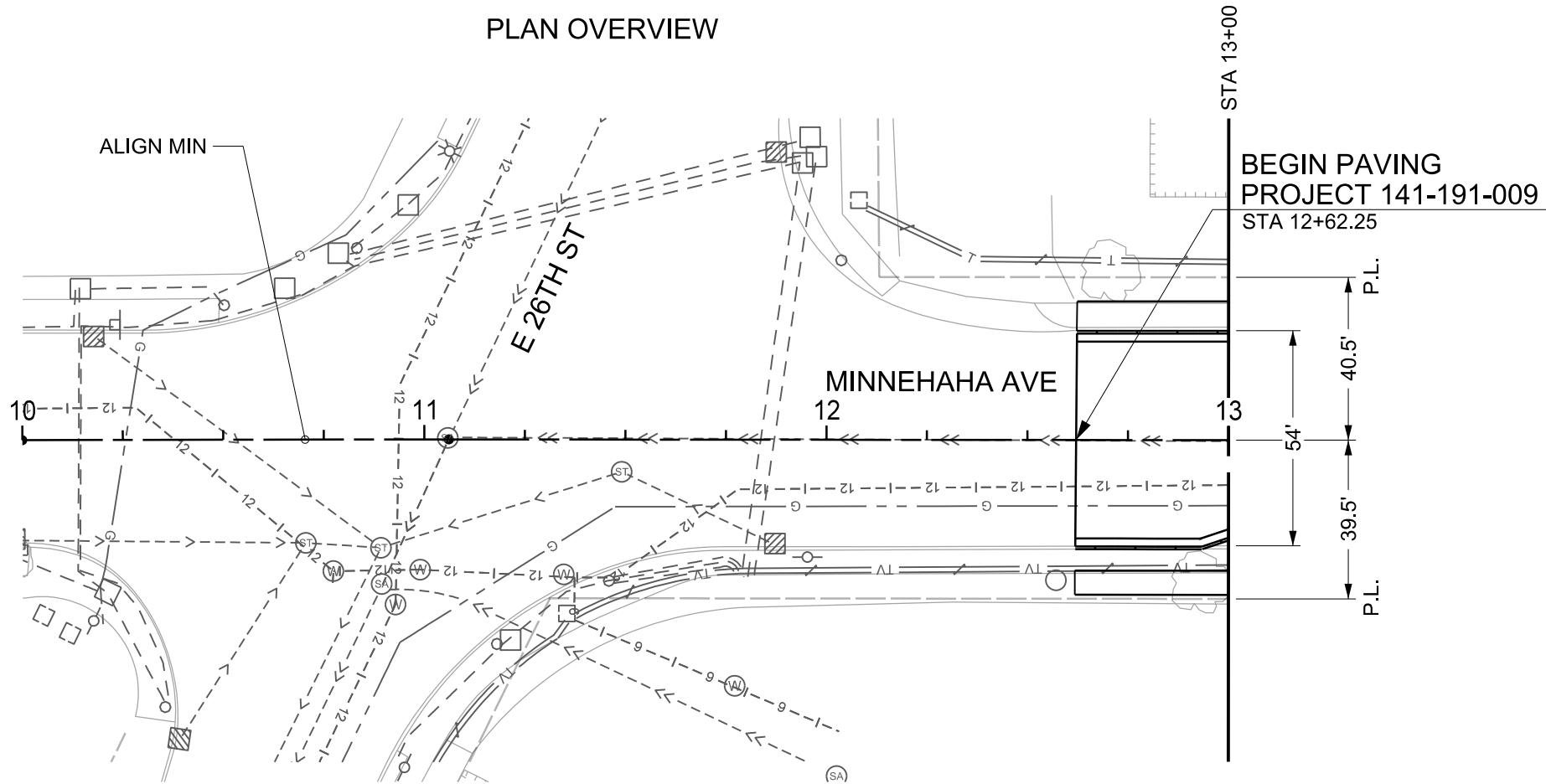
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MINNEHAHA AVE 26TH TO 24TH

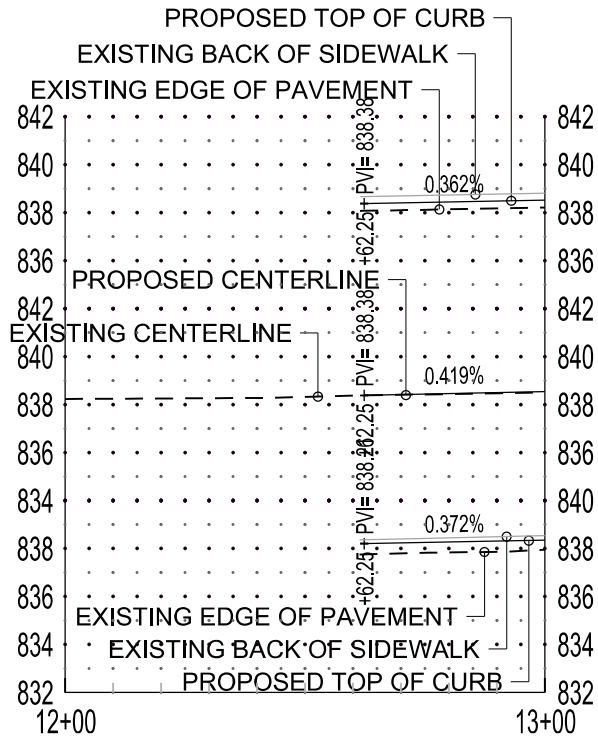
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FILE NAME = 6754-PVNG-002.dgn
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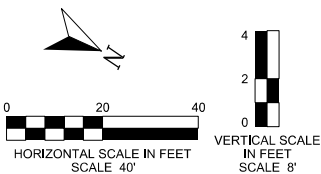
PLAN OVERVIEW



PROPOSED PROFILE



Change numbers
to 32 OF 96



| NO. | DATE | DRW | CKD | APP | REVISION |
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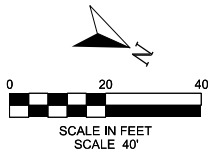
BEVERLY JO WARMKA
LIC. NO. 43843
DATE

| PAVING PLAN/PROFILE | | | |
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|  | MINNEAPOLIS | | DRW: JFN |
| | DEPARTMENT OF | | DATE: 03/26/15 |
| | PUBLIC WORKS | | CHK: HRV |
| | | APP: BJW | DATE: |

MINNEHAHA AVE 26TH TO 24TH

L.P. 600D 6754 S.A.P. 141-191-009

FILE NAME = 6754-PVNG-003.dgn
DATE PRINTED = 5/26/2015 8:28:50 AM



ET +11.34 OF 20.50'
ER +21.34 OF 20.50'
ER +39.34 OF 38.89'
END B624 +39.15 OF 47.37'

| NO. | DATE | DRW | CKD | APP | REVISION |
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BEVERLY JO WARMKA
LIC. NO. 43843
DATE



MINNEAPOLIS
DEPARTMENT OF
PUBLIC WORKS

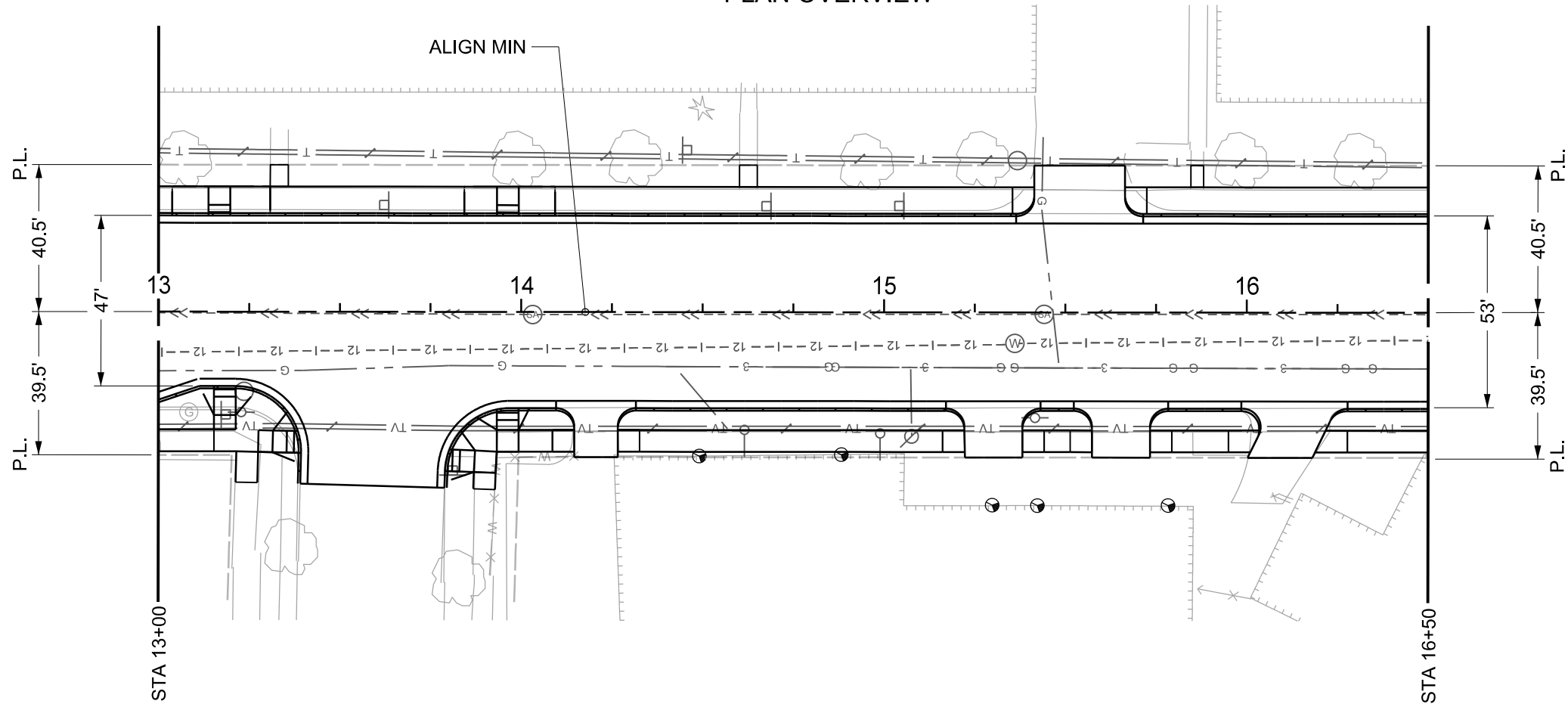
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| DRW: JFN | DATE: 03/30/15 |
| CHK: HRV | DATE: |
| APP: BJW | DATE: |

| MINNEHAHA AVE 26TH TO 24TH | | | | |
|----------------------------|-------------|---------------------------------------|--------|-----------------|
| STA 13+00.00 TO 16+50.00 | | | | |
| LEGEND | ITEM NUMBER | DESCRIPTION | UNIT | ESTIMATED TOTAL |
| | 2104.501 | REMOVE CURB AND GUTTER | LIN FT | 541 |
| | 2104.503 | REMOVE CONCRETE SIDEWALK | SQ FT | 3154 |
| | 2104.505 | REMOVE CONCRETE DRIVEWAY PAVEMENT | SQ YD | 189 |
| | 2104.505 | REMOVE CONCRETE PAVEMENT | SQ YD | 2040 |
| | 2104.511 | SAWING CONCRETE PAVEMENT (FULL DEPTH) | LIN FT | 306 |
| | 2104.513 | SAWING BIT PAVEMENT (FULL DEPTH) | LIN FT | 31 |
| | 2521.501 | 3.5" CONCRETE WALK | SQ FT | 2965 |
| | 2521.501 | 6" CONCRETE WALK | SQ FT | 1341 |
| | 2531.501 | CONCRETE CURB & GUTTER DESIGN B624 | LIN FT | 574 |
| | 2531.507 | 8" CONCRETE DRIVEWAY PAVEMENT | SQ YD | 161 |
| | 2575.505 | SODDING TYPE LAWN | SQ YD | 138 |
| | 2531.618 | TRUNCATED DOMES | SQ FT | 72 |
| | N/A | PAVING AREA | SQ YD | 1992 |

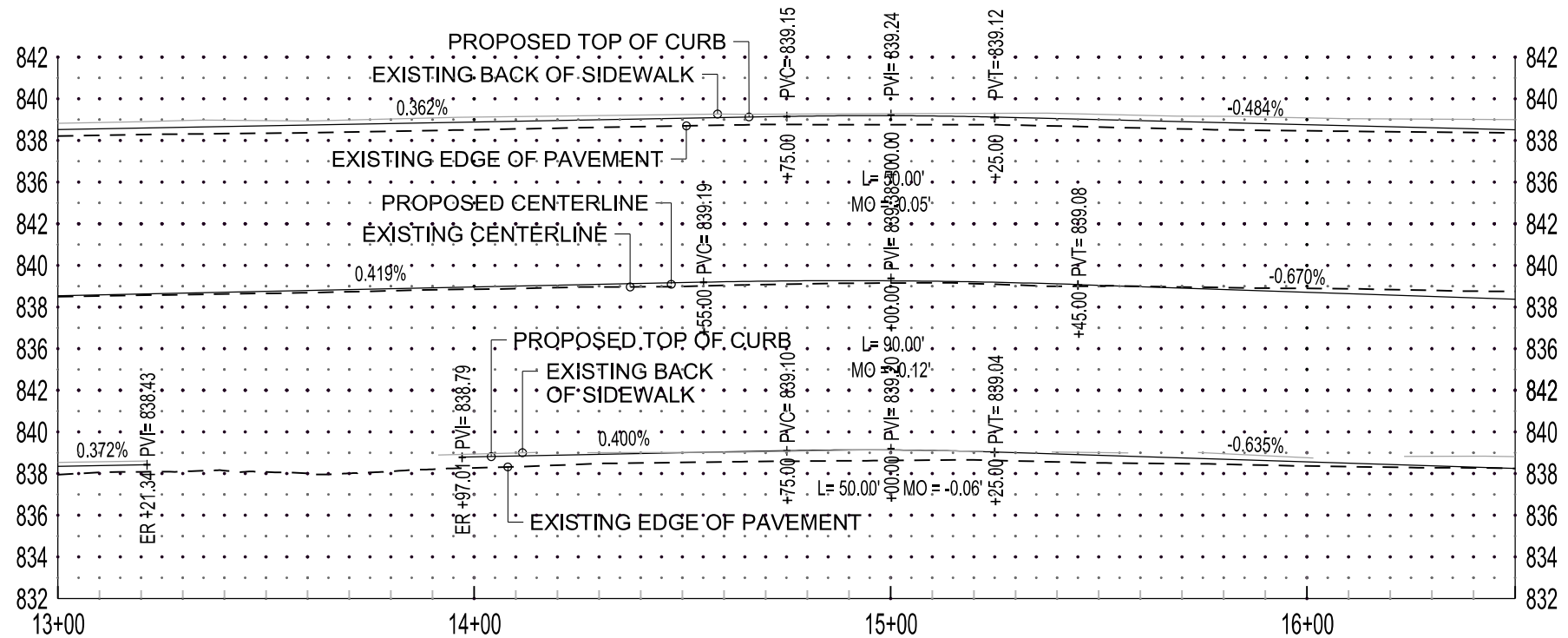
See notes on P1

Change numbers to 33 OF 96

PLAN OVERVIEW



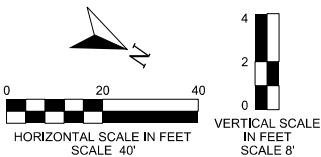
PROPOSED PROFILE



Change numbers
to 34 OF 96

FILE NAME = 6754-PVNG-004.dgn DATE PRINTED = 5/26/2015 8:28:53 AM


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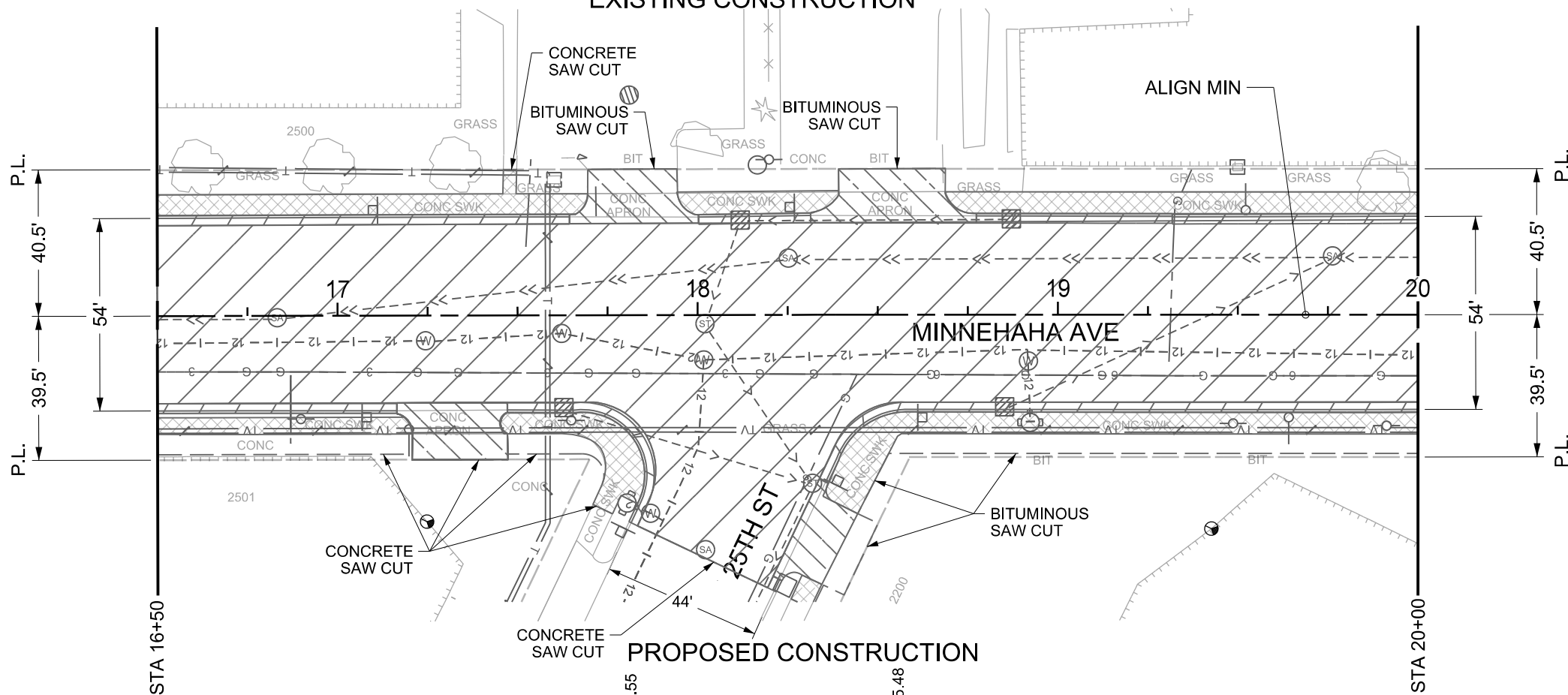
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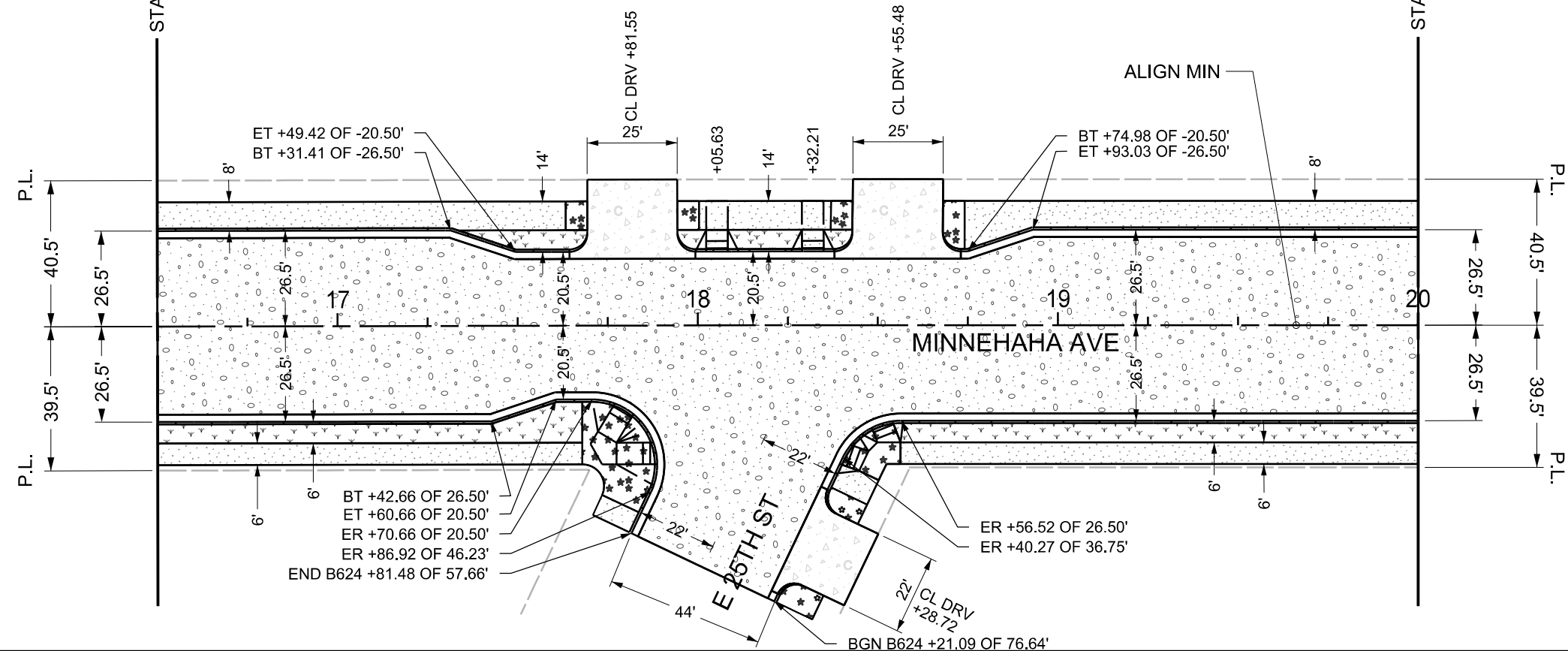
BEVERLY JO WARMKA 43843
LIC. NO. DATE

| PAVING PLAN/PROFILE | | MINNEAPOLIS DEPARTMENT OF PUBLIC WORKS | | MINNEHAHA AVE 26TH TO 24TH | |
|---------------------|----------------|---|--|----------------------------|--------------------|
| DRW: JFN | DATE: 03/26/15 |  | MINNEAPOLIS DEPARTMENT OF PUBLIC WORKS | L.P. 600D 6754 | S.A.P. 141-191-009 |
| CHK: HRV | DATE: | | | | |
| APP: BJW | DATE: | | | | |

EXISTING CONSTRUCTION



PROPOSED CONSTRUCTION



MINNEHAHA AVE 26TH TO 24TH

STA 16+50.00 TO 20+00.00

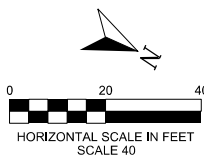
| LEGEND | ITEM NUMBER | DESCRIPTION | UNIT | ESTIMATED TOTAL |
|--------|-------------|---------------------------------------|--------|-----------------|
| | 2104.501 | REMOVE CURB AND GUTTER | LIN FT | 660 |
| | 2104.503 | REMOVE CONCRETE SIDEWALK | SQ FT | 3678 |
| | 2104.505 | REMOVE CONCRETE DRIVEWAY PAVEMENT | SQ YD | 187 |
| | 2104.505 | REMOVE CONCRETE PAVEMENT | SQ YD | 2140 |
| | 2104.511 | SAWING CONCRETE PAVEMENT (FULL DEPTH) | LIN FT | 249 |
| | 2104.513 | SAWING BIT PAVEMENT (FULL DEPTH) | LIN FT | 208 |
| | 2521.501 | 3.5" CONCRETE WALK | SQ FT | 3905 |
| | 2521.501 | 6" CONCRETE WALK | SQ FT | 945 |
| | 2531.501 | CONCRETE CURB & GUTTER DESIGN B624 | LIN FT | 628 |
| | 2531.507 | 8" CONCRETE DRIVEWAY PAVEMENT | SQ YD | 184 |
| | 2575.505 | SODDING TYPE LAWN | SQ YD | 203 |
| | 2531.618 | TRUNCATED DOMES | SQ FT | 72 |
| | N/A | PAVING AREA | SQ YD | 2015 |

See notes on P1

Change numbers
to 35 OF 96

DATE PRINTED = 5/26/2015 8:28:56 AM

FILE NAME = 6754-PVNG-005.dgn



| NO. | DATE | DRW | CKD | APP | REVISION |
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| DRW: JFN | DATE: 03/30/15 |
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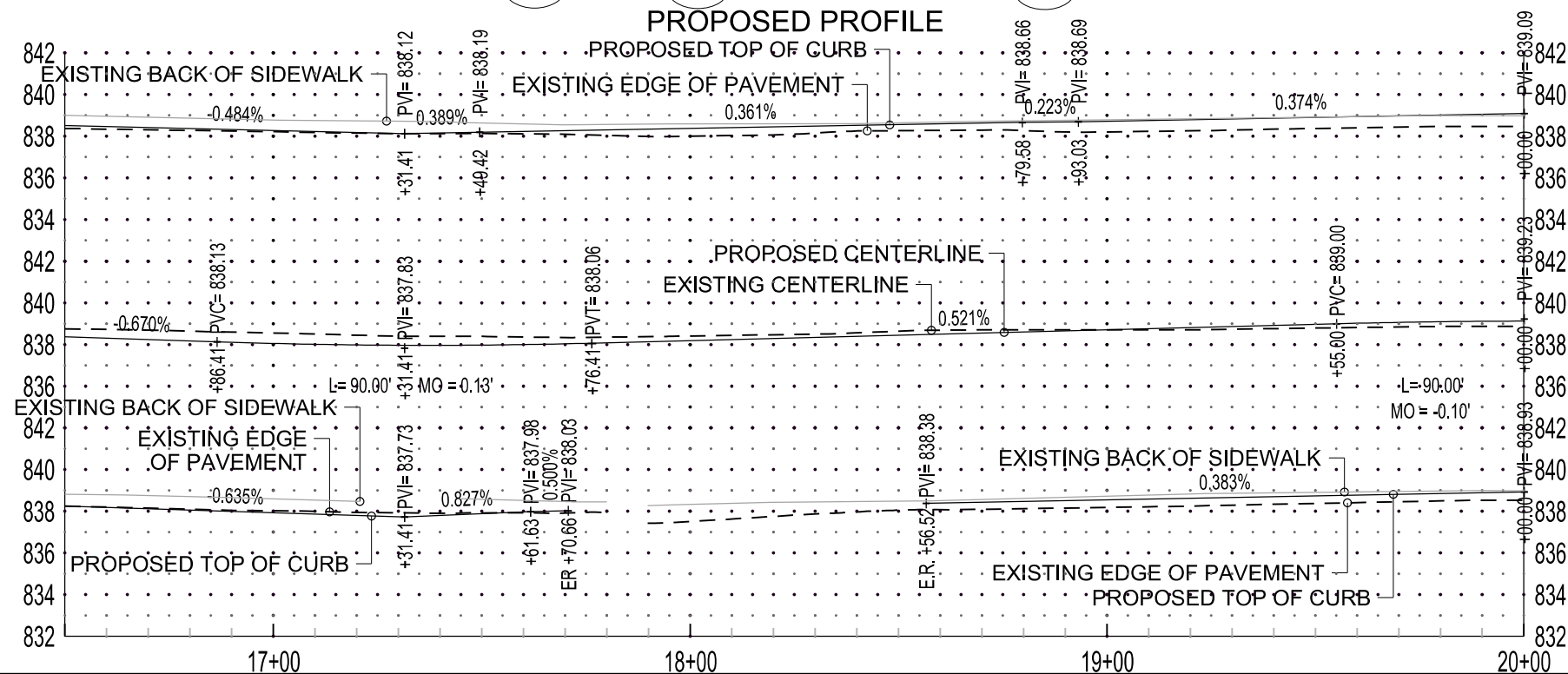
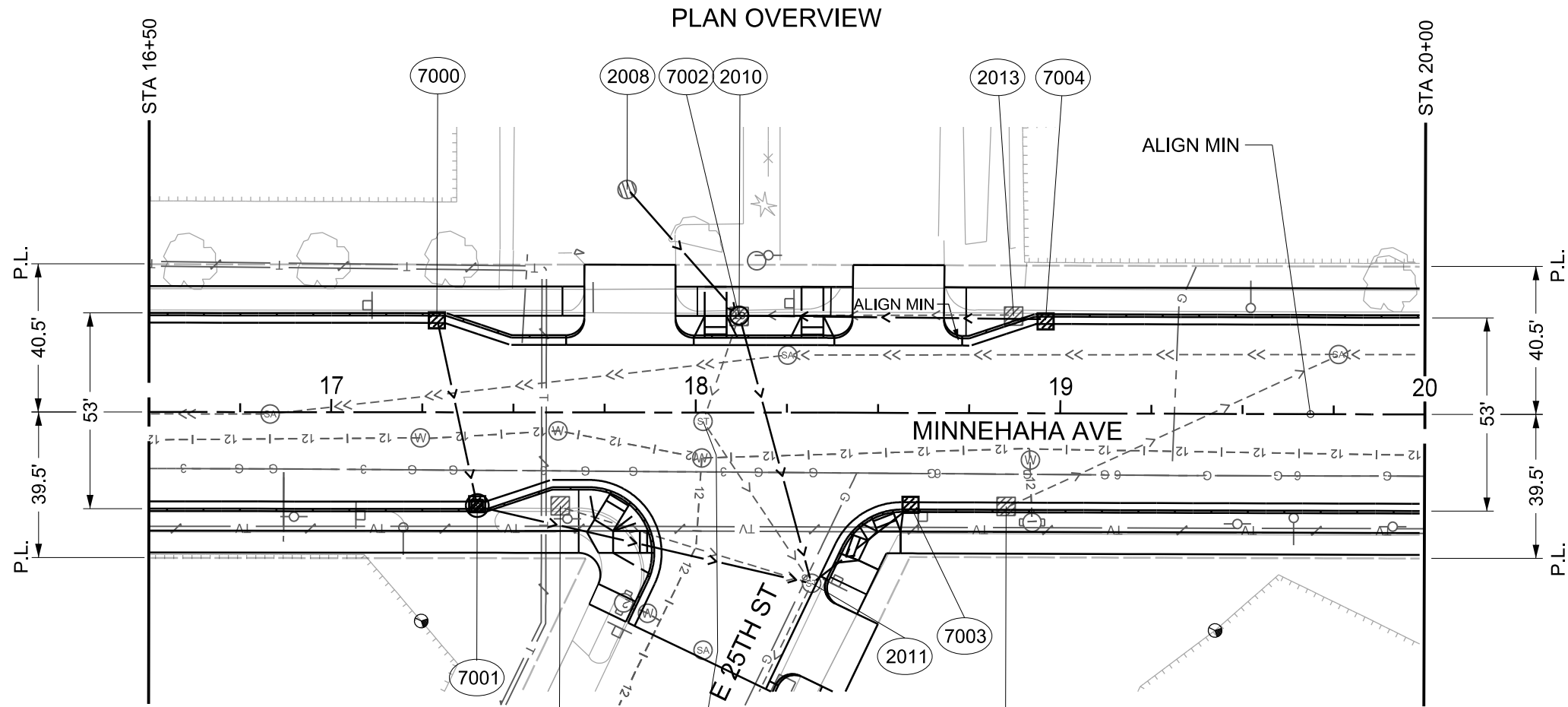
PAVING PLAN/PROFILE

MINNEHAHA AVE 26TH TO 24TH

L.P. 600D 6754 S.A.P. 141-191-009

P5
OF
P11

FILE NAME = 6754-PVNG-006.dgn
DATE PRINTED = 5/26/2015 8:28:59 AM



MINNEHAHA AVE 26th to 24th

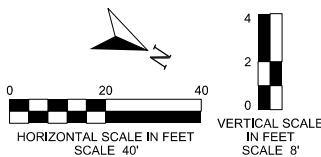
STA 16+50 TO 20+00.00

| No | ALIGN | LOCATION | | DESCRIPTION | REMARKS |
|------|-------|----------|--------|-------------|---------|
| 7000 | MIN | 17+28.91 | -25.38 | PMCB | |
| 7001 | MIN | 17+40.16 | 25.38 | PMCB | |
| 7002 | MIN | 18+11.90 | -26.31 | PSDM | |
| 7003 | MIN | 18+59.02 | 25.38 | PMCB | |
| 7004 | MIN | 18+95.53 | -25.38 | PMCB | |

LEGEND

PMCB = PROPOSED CATCH BASIN
PSDM = PROPOSED STORM MANHOLE

Change numbers
to 36 OF 96



| NO. | DATE | DRW | CKD | APP | REVISION |
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43843

LIC. NO.

DATE



MINNEAPOLIS
DEPARTMENT OF
PUBLIC WORKS

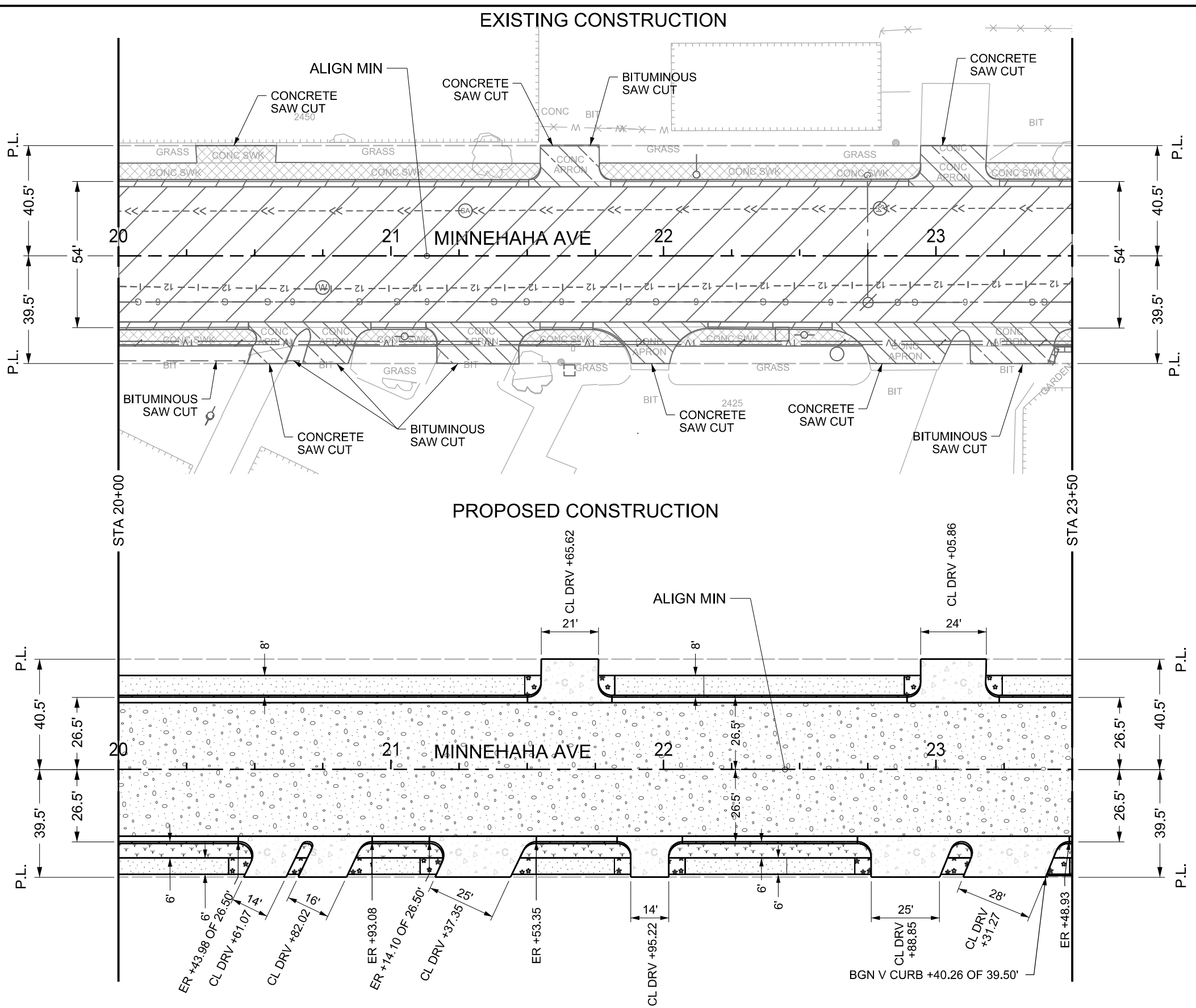
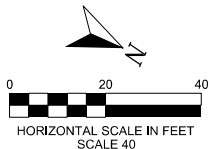
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| DRW: JFN | DATE: 03/26/15 |
| CHK: HRV | DATE: |
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MINNEHAHA AVE 26TH TO 24TH

L.P. 600D 6754 S.A.P. 141-191-009

P6
OF
P11

FILE NAME = 6754-PVNG-007.dgn DATE PRINTED = 5/26/2015 8:29:01 AM



MINNEHAHA AVE 26TH TO 24TH

| STA 20+00.00 TO 23+50.00 | | | | |
|--------------------------|-------------|---------------------------------------|--------|------------------|
| LEGEND | ITEM NUMBER | DESCRIPTION | UNIT | ESTIMATE D TOTAL |
| | 2104.501 | REMOVE CURB AND GUTTER | LIN FT | 420 |
| | 2104.503 | REMOVE WOOD RETAINING WALL | SQ FT | 7 |
| | 2104.503 | REMOVE CONCRETE SIDEWALK | SQ FT | 3108 |
| | 2104.505 | REMOVE CONCRETE DRIVEWAY PAVEMENT | SQ YD | 356 |
| | 2104.505 | REMOVE CONCRETE PAVEMENT | SQ YD | 1934 |
| | 2104.511 | SAWING CONCRETE PAVEMENT (FULL DEPTH) | LIN FT | 136 |
| | 2104.513 | SAWING BIT PAVEMENT (FULL DEPTH) | LIN FT | 146 |
| | 2521.501 | 3.5" CONCRETE WALK | SQ FT | 2960 |
| | 2521.501 | 6" CONCRETE WALK | SQ FT | 563 |
| | 2531.501 | CONCRETE CURB & GUTTER DESIGN B624 | LIN FT | 444 |
| | 2531.502 | CONCRETE CURB DESIGN V6 | LIN FT | 11 |
| | 2531.507 | 8" CONCRETE DRIVEWAY PAVEMENT | SQ YD | 334 |
| | 2575.505 | SODDING TYPE LAWN | SQ YD | 121 |
| | N/A | PAVING AREA | SQ YD | 1910 |

See notes on P1

Change numbers to 37 OF 96

| NO. | DATE | DRW | CKD | APP | REVISION |
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BEVERLY JO WARMKA 43843 LIC. NO. DATE



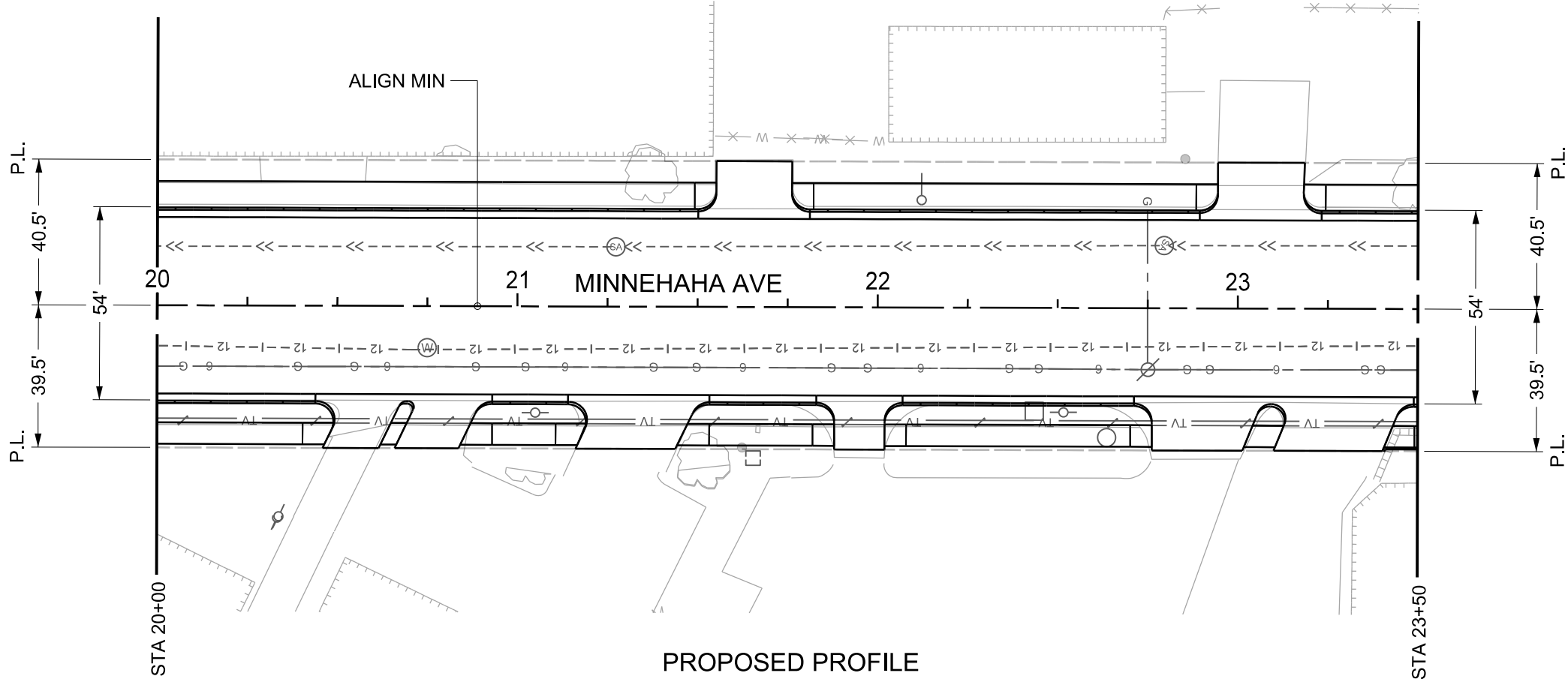
MINNEAPOLIS
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PUBLIC WORKS

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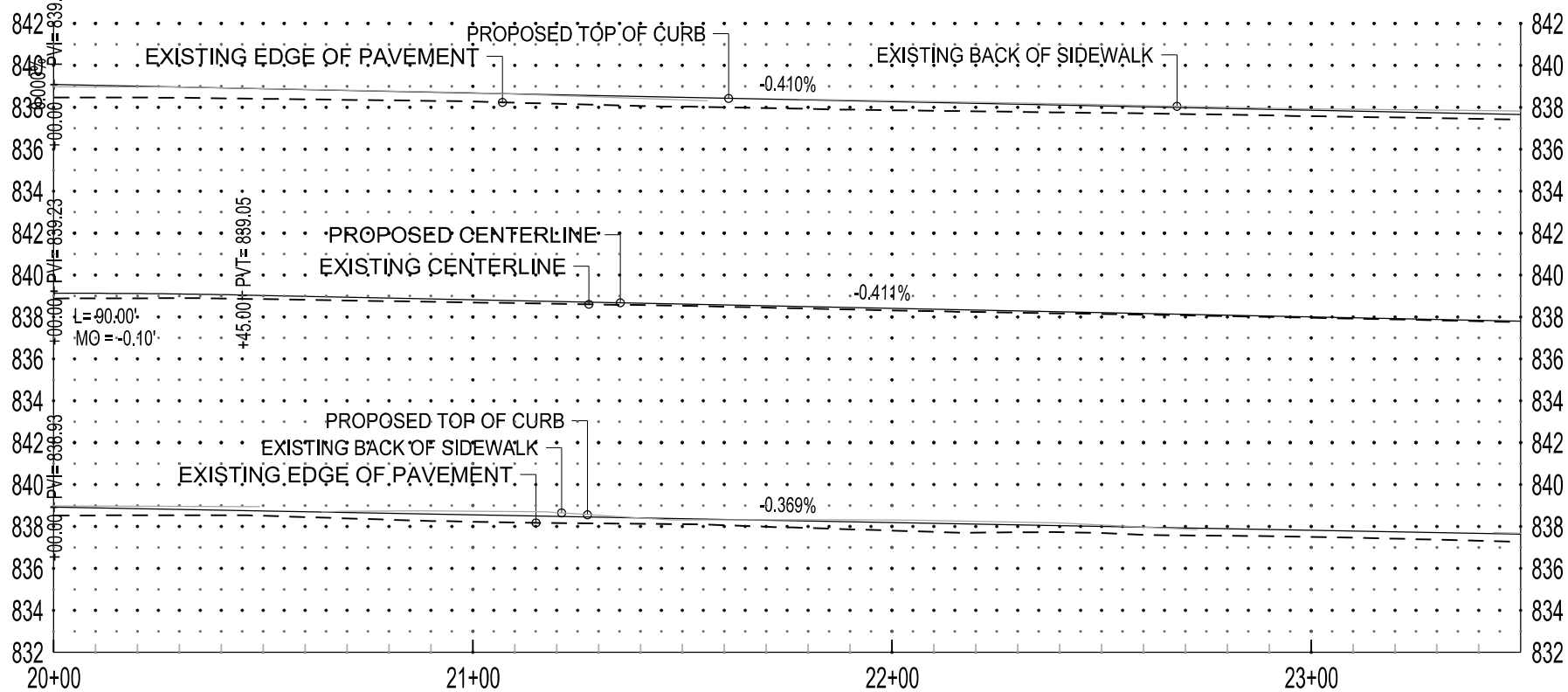
MINNEHAHA AVE 26TH TO 24TH

L.P. 600D 6754 S.A.P. 141-191-009

PLAN OVERVIEW

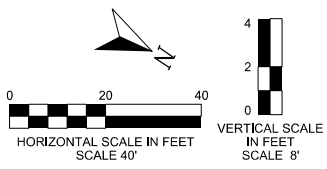


PROPOSED PROFILE



Change numbers
to 38 OF 96

FILE NAME = 6754-PVNG-008.dgn
DATE PRINTED = 5/26/2015
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LIC. NO. 43843
DATE

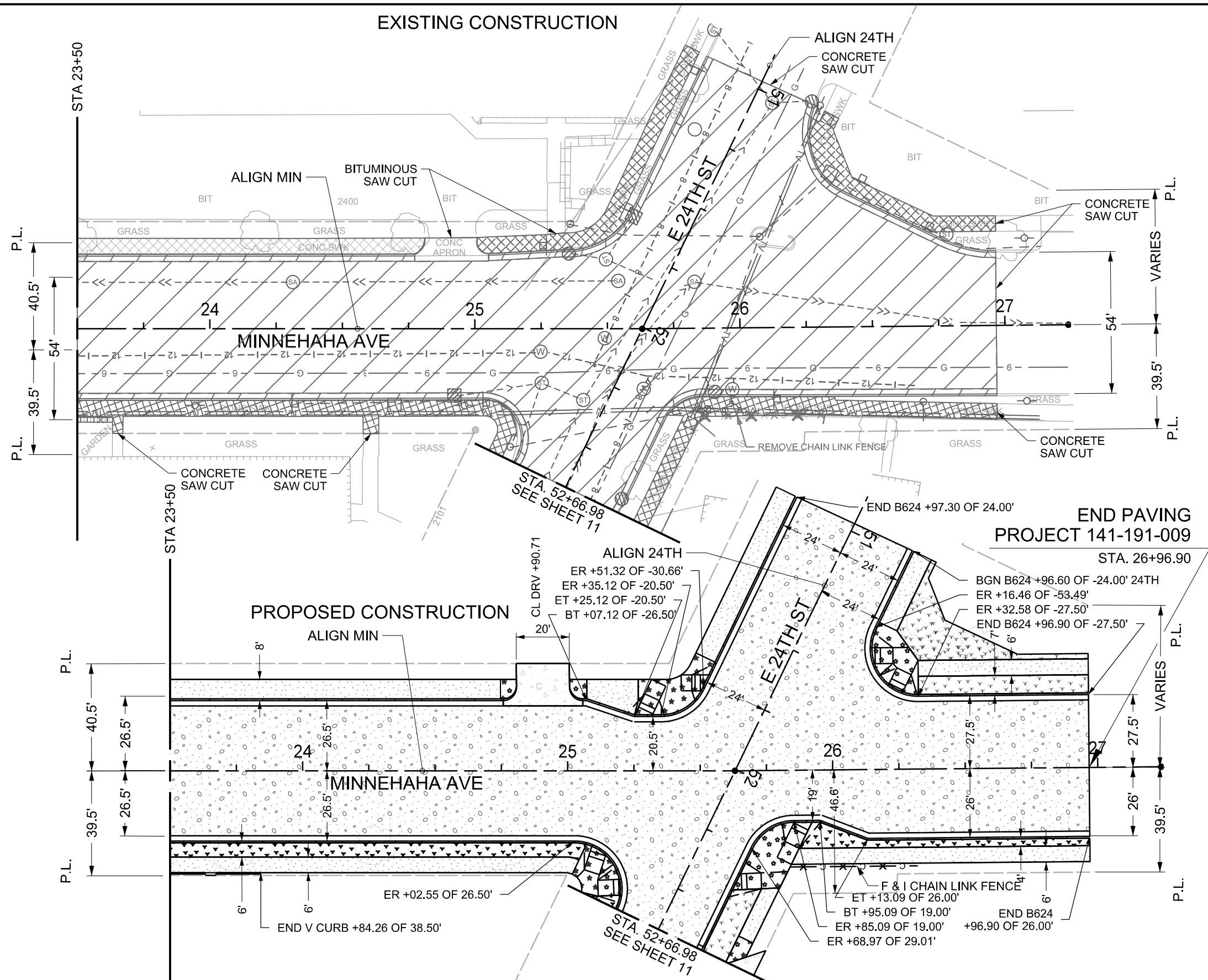
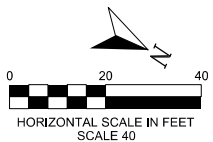
MINNEAPOLIS
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PUBLIC WORKS

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| DRW: JFN | DATE: 03/26/15 |
| CHK: HRV | DATE: 02/25/15 |
| APP: BJW | DATE: |

MINNEHAHA AVE 26TH TO 24TH

L.P. 600D 6754 S.A.P. 141-191-009

FILE NAME = 6754-PVNG-009.dgn
DATE PRINTED = 5/26/2015 8:29:06 AM



| MINNEHAHA AVE 26TH TO 24TH | | | | |
|----------------------------|-------------|---------------------------------------|--------|-----------------|
| STA 23+50.00 TO END | | | | |
| LEGEND | ITEM NUMBER | DESCRIPTION | UNIT | ESTIMATED TOTAL |
| | 2104.501 | REMOVE CURB AND GUTTER | LIN FT | 706 |
| | 2104.501 | REMOVE CHAIN LINK FENCE | LIN FT | 49 |
| | 2104.503 | REMOVE WOOD RETAINING WALL | SQ FT | 13 |
| | 2104.503 | REMOVE CONCRETE SIDEWALK | SQ FT | 4344 |
| | 2104.505 | REMOVE CONCRETE DRIVEWAY PAVEMENT | SQ YD | 24 |
| | 2104.505 | REMOVE CONCRETE PAVEMENT | SQ YD | 2638 |
| | 2104.511 | SAWING CONCRETE PAVEMENT (FULL DEPTH) | LIN FT | 114 |
| | 2521.501 | 3.5" CONCRETE WALK | SQ FT | 3992 |
| | 2521.501 | 6" CONCRETE WALK | SQ FT | 1480 |
| | 2531.501 | CONCRETE CURB & GUTTER DESIGN B624 | LIN FT | 754 |
| | 2531.502 | CONCRETE CURB DESIGN V6 | LIN FT | 30 |
| | 2531.507 | 8" CONCRETE DRIVEWAY PAVEMENT | SQ YD | 44 |
| | 2531.618 | TRUNCATED DOMES | SQ FT | 96 |
| | 2557.603 | INSTALL CHAIN LINK FENCE | LIN FT | 48 |
| | 2571.502 | FURNISH AND PLANT SHADE TREE | EACH | 5 |
| | 2574.525 | ROOTING TOPSOIL BORROW | CU YD | 5 |
| | 2575.505 | SODDING TYPE LAWN | SQ YD | 296 |
| | N/A | PAVING AREA | SQ YD | 2411 |

See notes on P1

Change numbers to 39 OF 96

| NO. | DATE | DRW | CKD | APP | REVISION |
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PAVING PLAN/PROFILE

MINNEAPOLIS
DEPARTMENT OF
PUBLIC WORKS

DRW: JFN

CHK: HRV

APP: BJW

DATE: 03/30/15

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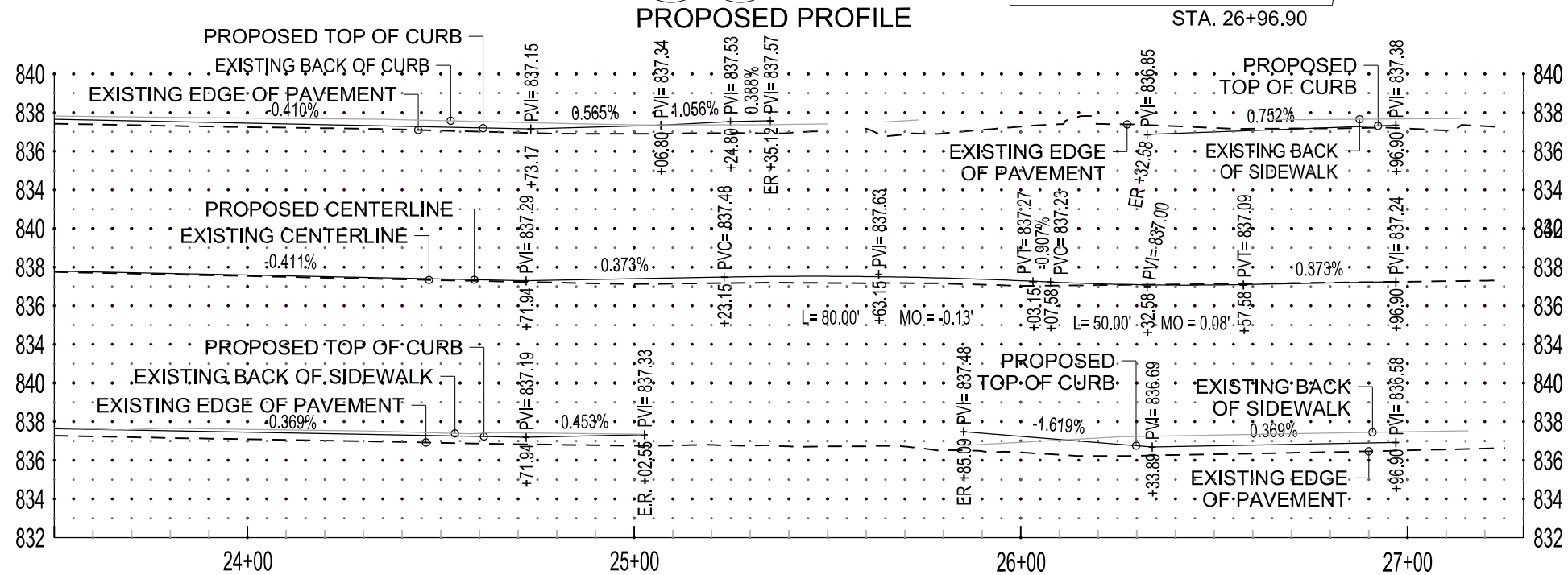
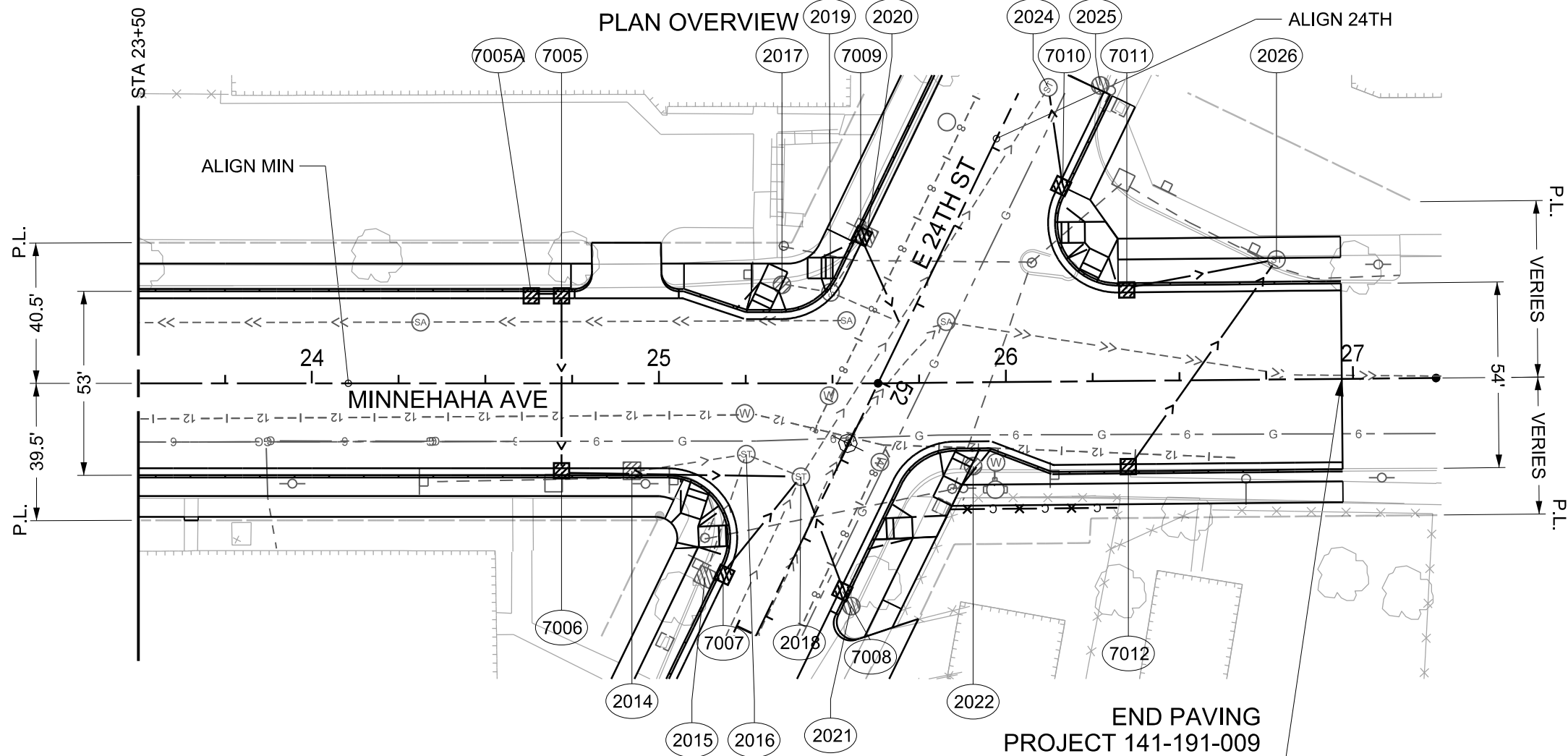
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MINNEHAHA AVE 26TH TO 24TH

L.P. 600D 6754 S.A.P. 141-191-009

P9
OF
P11

FILE NAME = 6754-PVNG-010.dgn DATE PRINTED = 5/26/2015 8:29:10 AM



MINNEHAHA AVE 26th to 24th

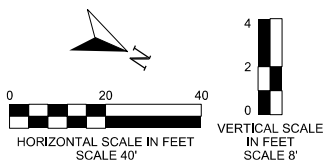
STA 23+50 TO END

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| 7006 | MIN | 24+71.94 | 25.38 | CBMH | |
| 7007 | MIN | 25+18.30 | 54.89 | PMCB | |
| 7008 | MIN | 25+53.46 | 60.16 | PMCB | |
| 7009 | MIN | 25+57.91 | -42.65 | PMCB | |
| 7010 | MIN | 26+16.23 | -56.05 | PMCB | |
| 7011 | MIN | 26+35.04 | -26.88 | PMCB | |
| 7012 | MIN | 26+35.02 | 25.38 | PMCB | |

LEGEND

PMCB = PROPOSED CATCH BASIN
CBMH = PROPOSED CATCH BASIN/MANHOLE

Change numbers
to 40 OF 96



| NO. | DATE | DRW | CKD | APP | REVISION |
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BEVERLY JO WARMKA

43843
LIC. NO.

DATE



MINNEAPOLIS
DEPARTMENT OF
PUBLIC WORKS

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| DRW: JFN | DATE: 03/26/15 |
| CHK: HRV | DATE: |
| APP: BJW | DATE: |

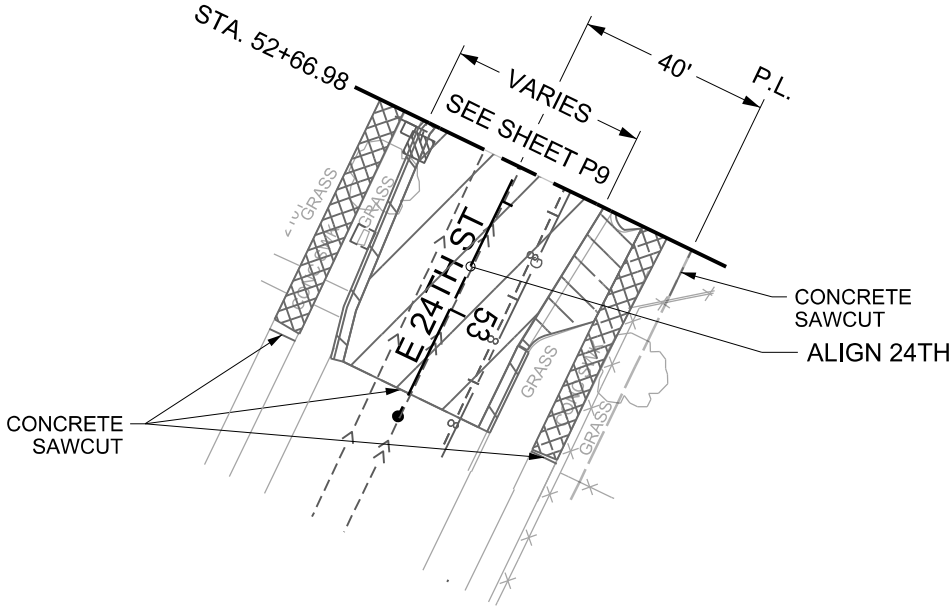
MINNEHAHA AVE 26TH TO 24TH

L.P. 600D 6754 S.A.P. 141-191-009

P10
OF
P11

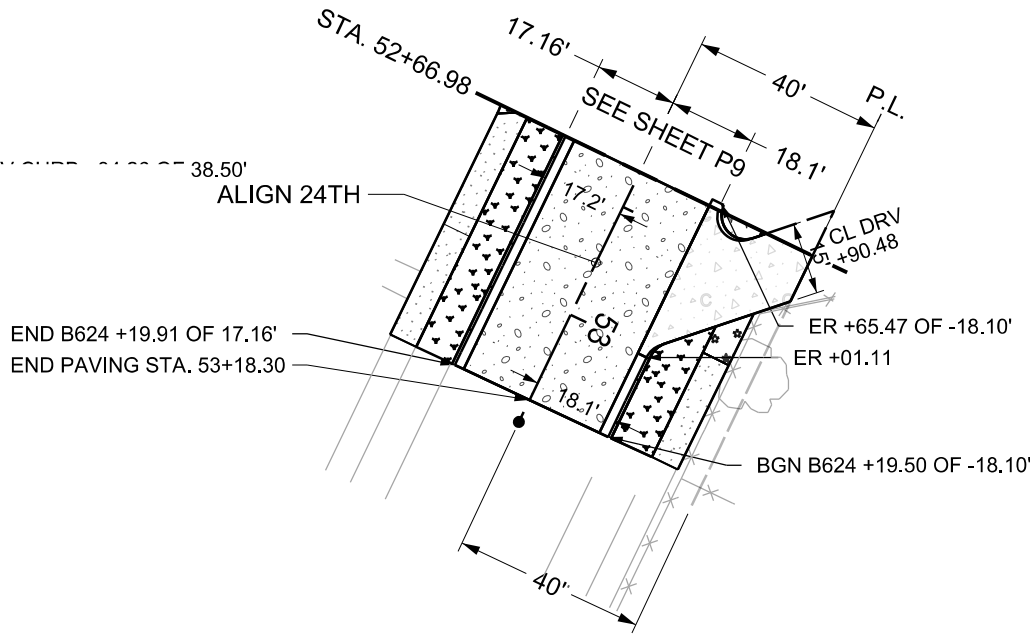
EXISTING CONSTRUCTION

24TH ST. EAST



PROPOSED CONSTRUCTION

24TH ST. EAST



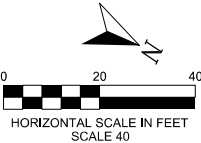
MINNEHAHA AVE 26TH TO 24TH

24TH ST - STA 50+00.00 TO 53+00.00

| LEGEND | ITEM NUMBER | DESCRIPTION | UNIT | ESTIMATE D TOTAL |
|--------|-------------|---------------------------------------|--------|------------------|
| | 2104.501 | REMOVE CURB AND GUTTER | LIN FT | 72 |
| | 2104.503 | REMOVE CONCRETE SIDEWALK | SQ FT | 591 |
| | 2104.505 | REMOVE CONCRETE DRIVEWAY PAVEMENT | SQ YD | 31 |
| | 2104.505 | REMOVE CONCRETE PAVEMENT | SQ YD | 207 |
| | 2104.511 | SAWING CONCRETE PAVEMENT (FULL DEPTH) | LIN FT | 59 |
| | 2521.501 | 3.5" CONCRETE WALK | SQ FT | 460 |
| | 2521.501 | 6" CONCRETE WALK | SQ FT | 58 |
| | 2531.501 | CONCRETE CURB & GUTTER DESIGN B624 | LIN FT | 71 |
| | 2531.507 | 8" CONCRETE DRIVEWAY PAVEMENT | SQ YD | 57 |
| | 2575.505 | SODDING TYPE LAWN | SQ YD | 78 |
| | N/A | PAVING AREA | SQ YD | 183 |

See notes on P1

Change numbers to 41 OF 96



| NO. | DATE | DRW | CKD | APP | REVISION |
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BEVERLY JO WARMKA

43843
LIC. NO.

DATE



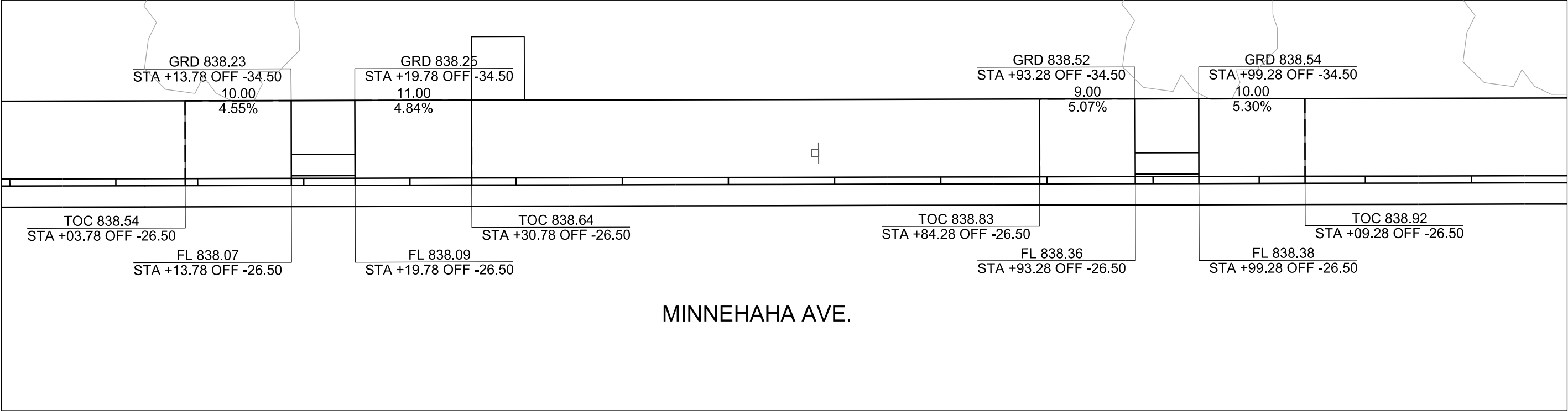
MINNEAPOLIS
DEPARTMENT OF
PUBLIC WORKS

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| DRW: JFN | DATE: 03/30/15 |
| CHK: HRV | DATE: |
| APP: BJW | DATE: |

MINNEHAHA AVE 26TH TO 24TH

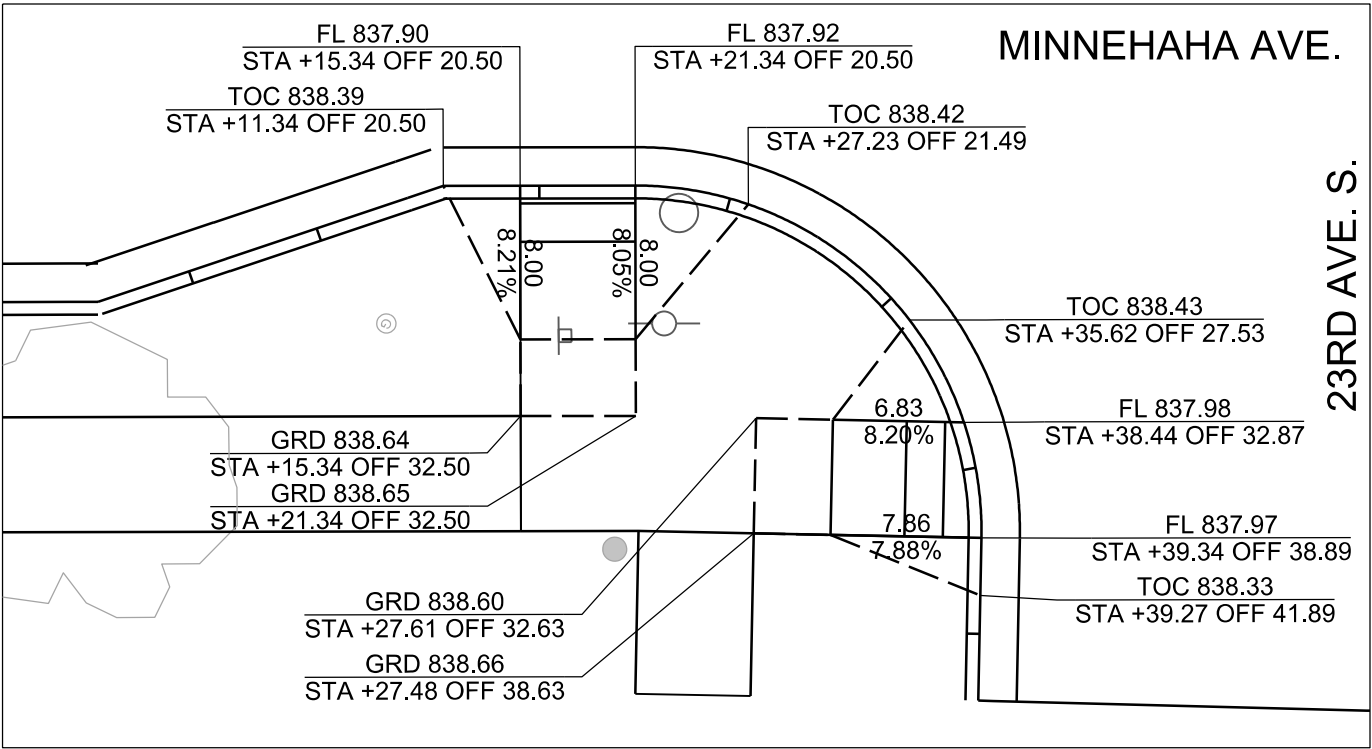
L.P. 600D 6754 S.A.P. 141-191-009

WEST SIDE



MINNEHAHA AVE.

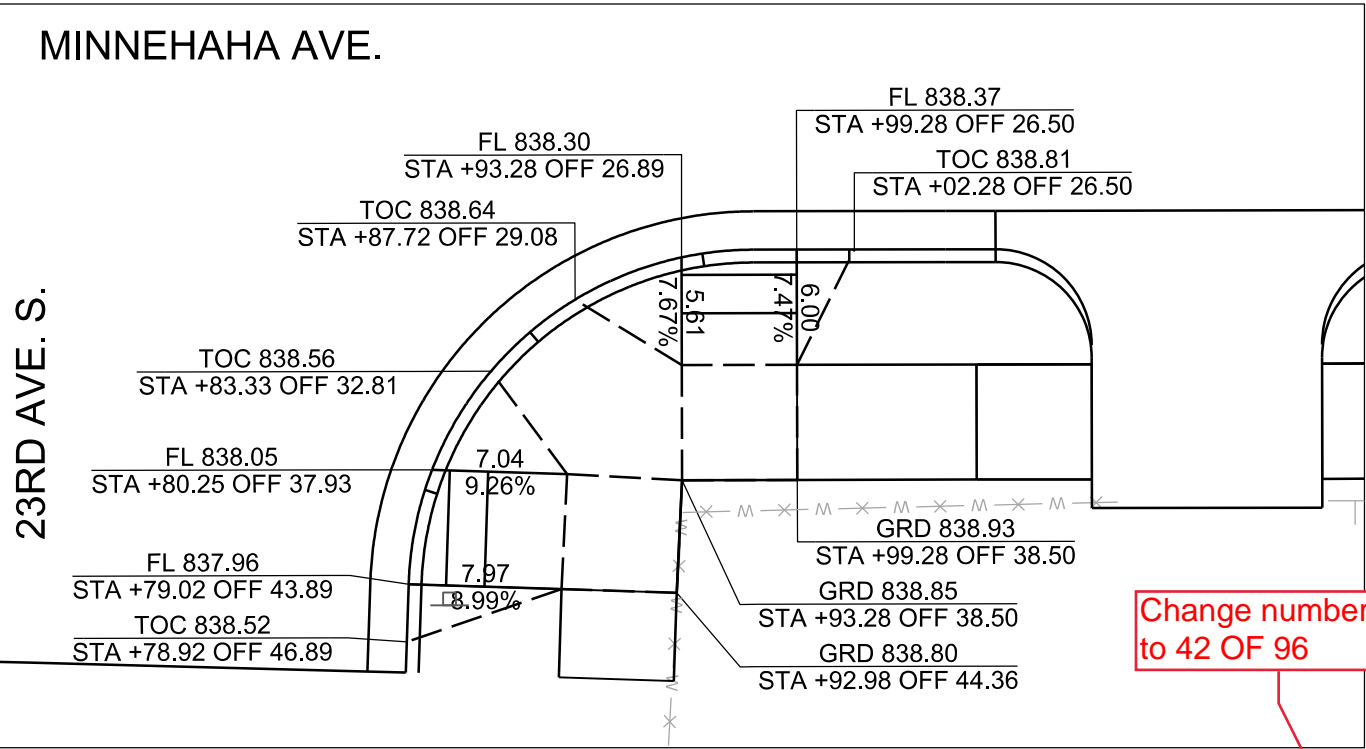
SOUTHEAST CORNER



MINNEHAHA AVE.

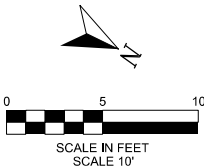
23RD AVE. S.

NORTHEAST CORNER



Change numbers
to 42 OF 96


FILE NAME = 6754-INTSCTDTL-001.dgn
DATE PRINTED = 5/26/2015
8:29:14 AM



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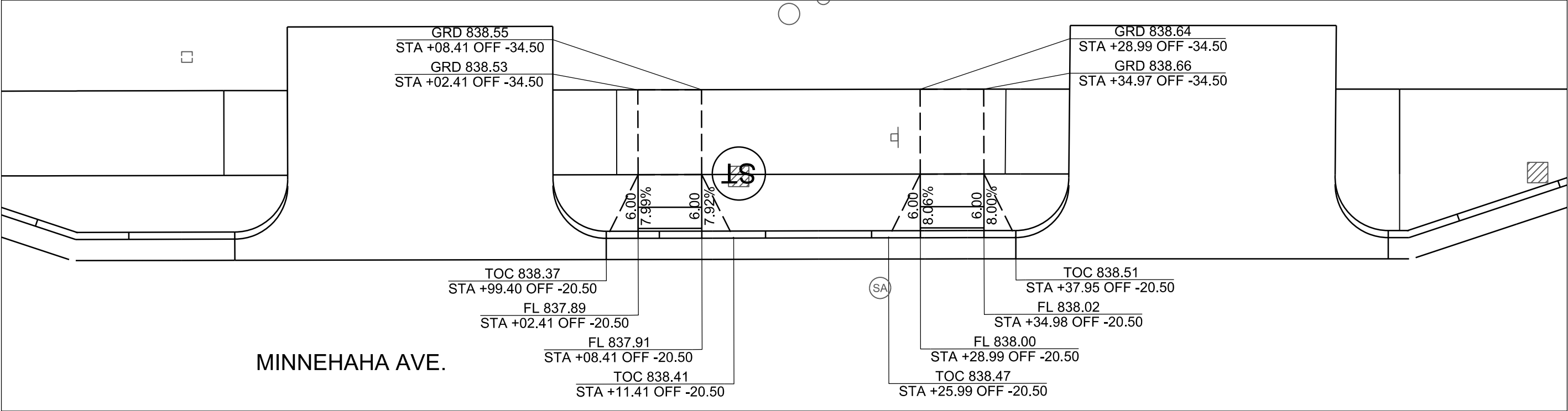
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LIC. NO. 43843
DATE

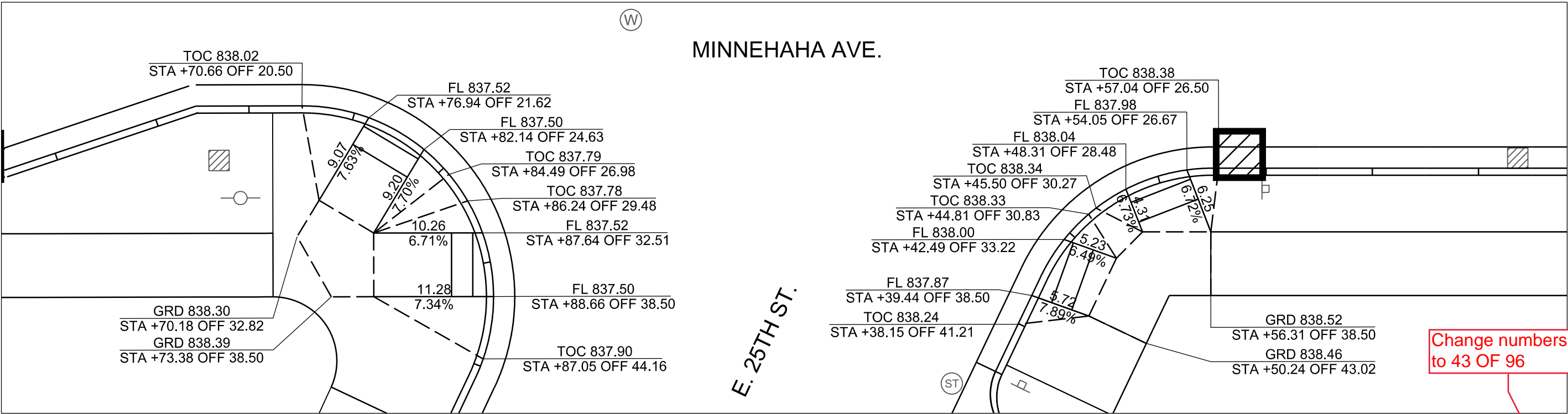
| INTERSECTION DETAILS | | | | MINNEHAHA AVE 26TH TO 24TH | |
|---|--|--|----------------------------|-----------------------------------|--------------------|
|  | MINNEAPOLIS DEPARTMENT OF PUBLIC WORKS | | DRW: JFN DATE: 03/24/15 | L.P. 600D 6754 S.A.P. 141-191-009 | INT1 OF INT3 |
| | | | CHK: HRV DATE: | | |
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DATE PRINTED = 5/26/2015
8:29:16 AM

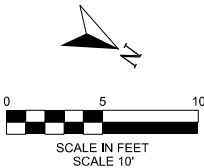
WEST SIDE



EAST SIDE




Change numbers
to 43 OF 96



| NO. | DATE | DRW | CKD | APP | REVISION |
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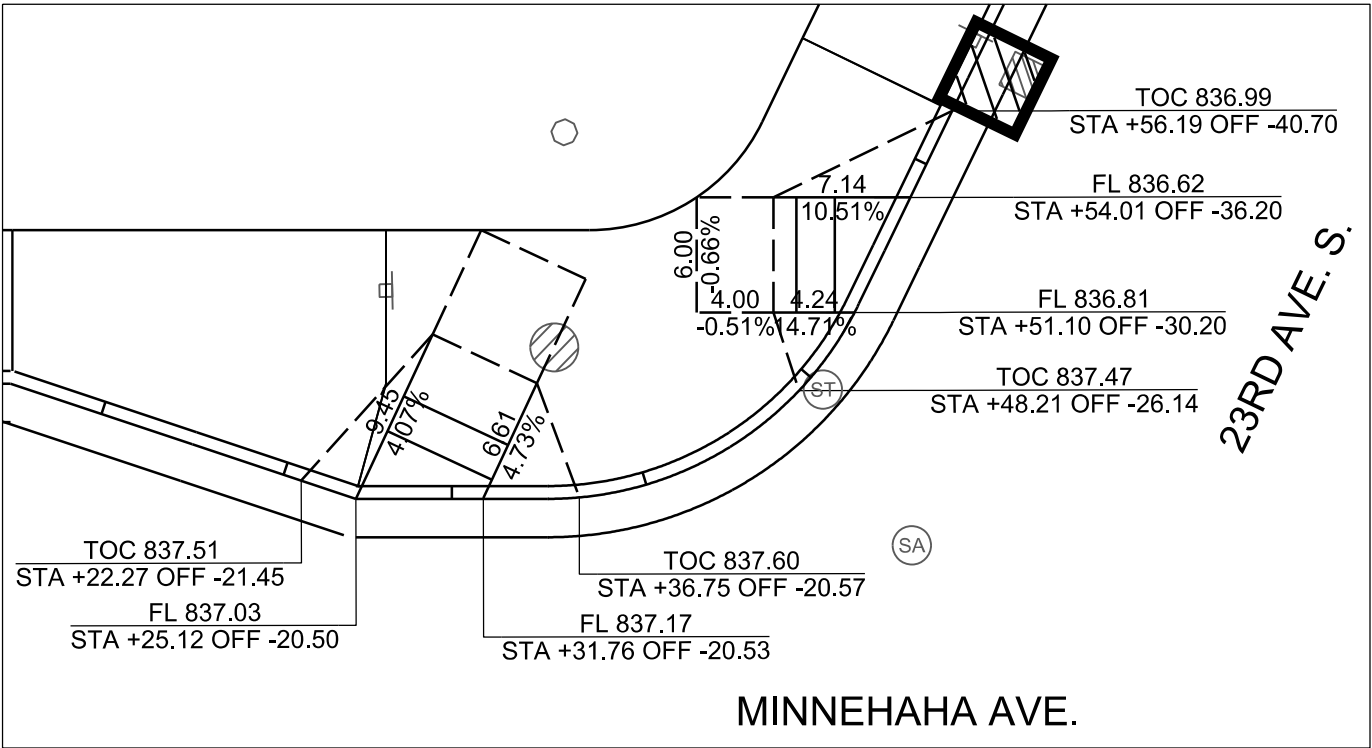
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LIC. NO. 43843
DATE

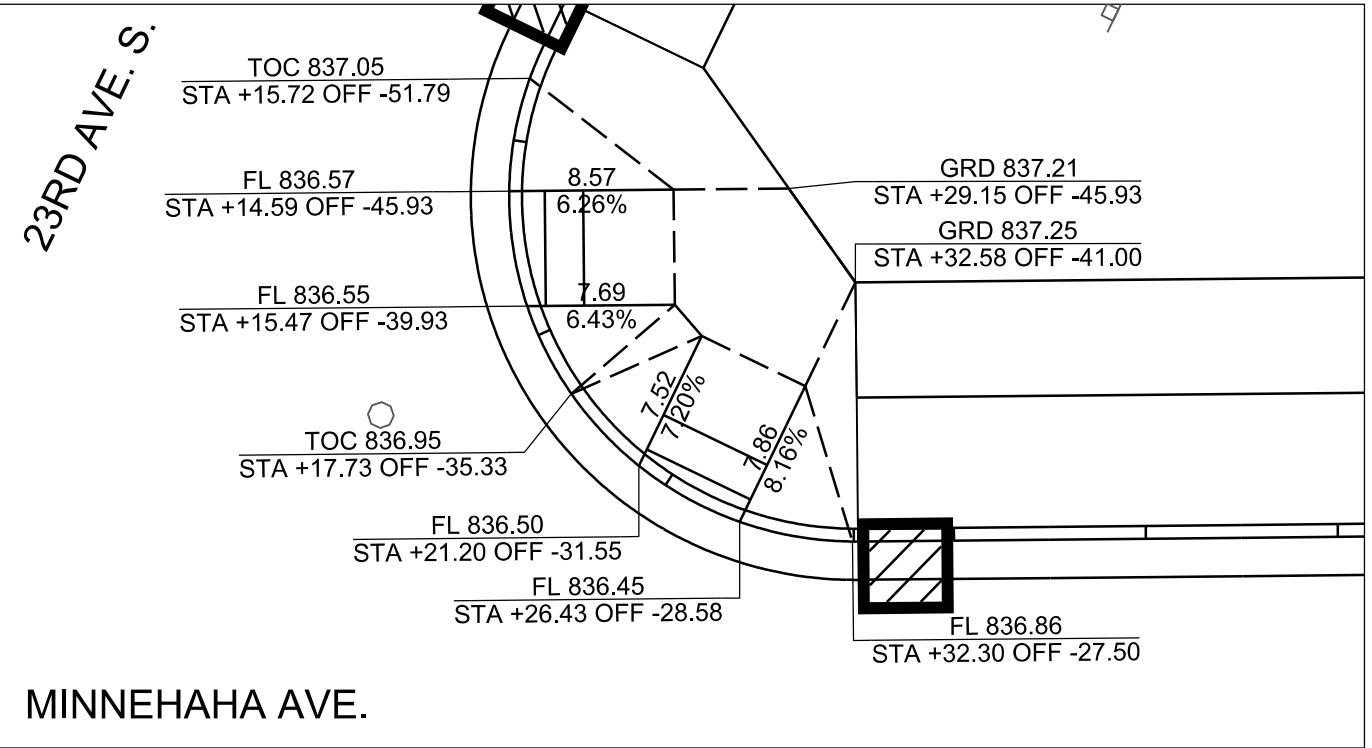
| INTERSECTION DETAILS | | | | MINNEHAHA AVE 26TH TO 24TH | |
|---|--|----------|----------------|----------------------------|--------------------|
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| | | CHK: HRV | DATE: | | |
| | | APP: BJW | DATE: | | |

INT2
OF
INT3

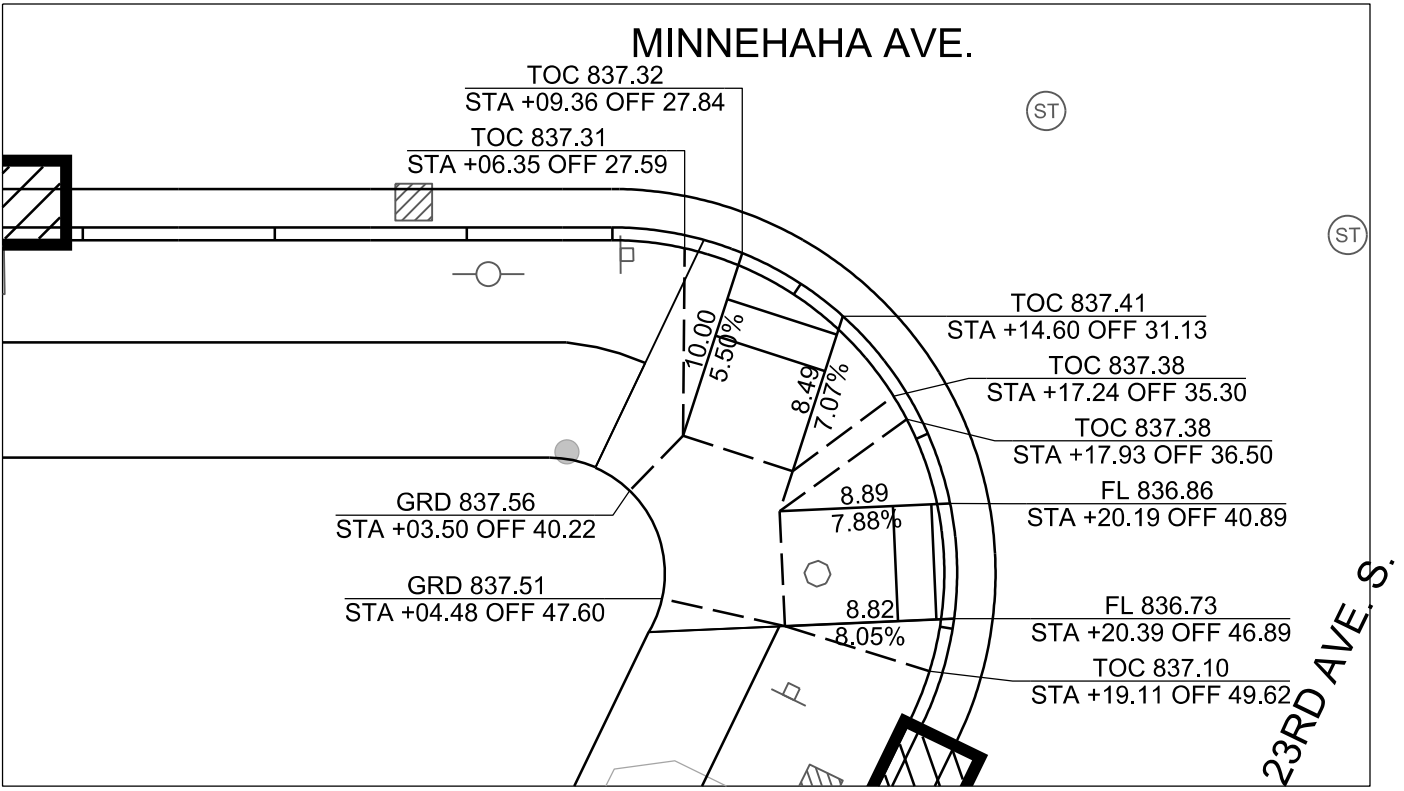
SOUTHWEST CORNER



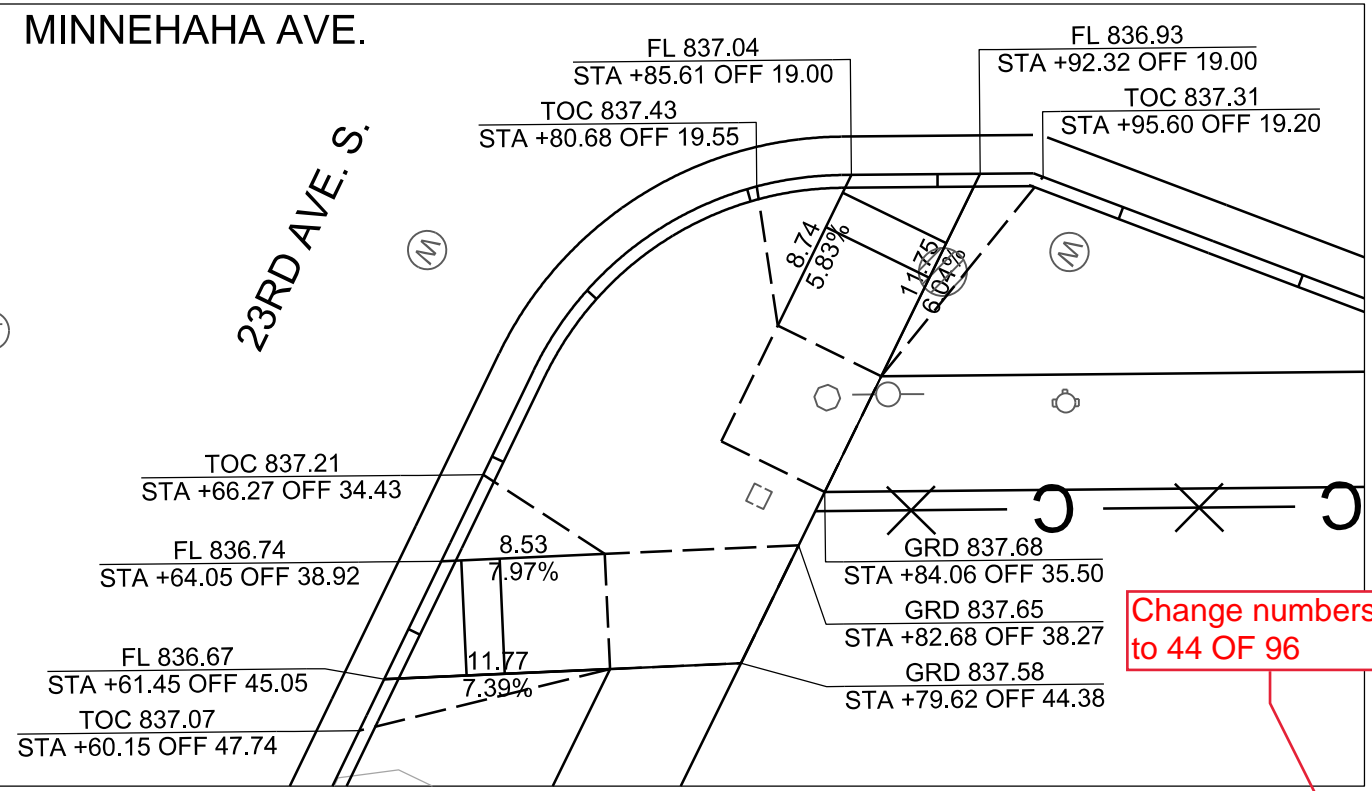
NORTHWEST CORNER



SOUTHEAST CORNER

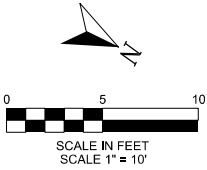


NORTHEAST CORNER



Change numbers
to 44 OF 96


FILE NAME = 6754-INTSCTDTL-003.dgn
DATE PRINTED = 5/26/2015
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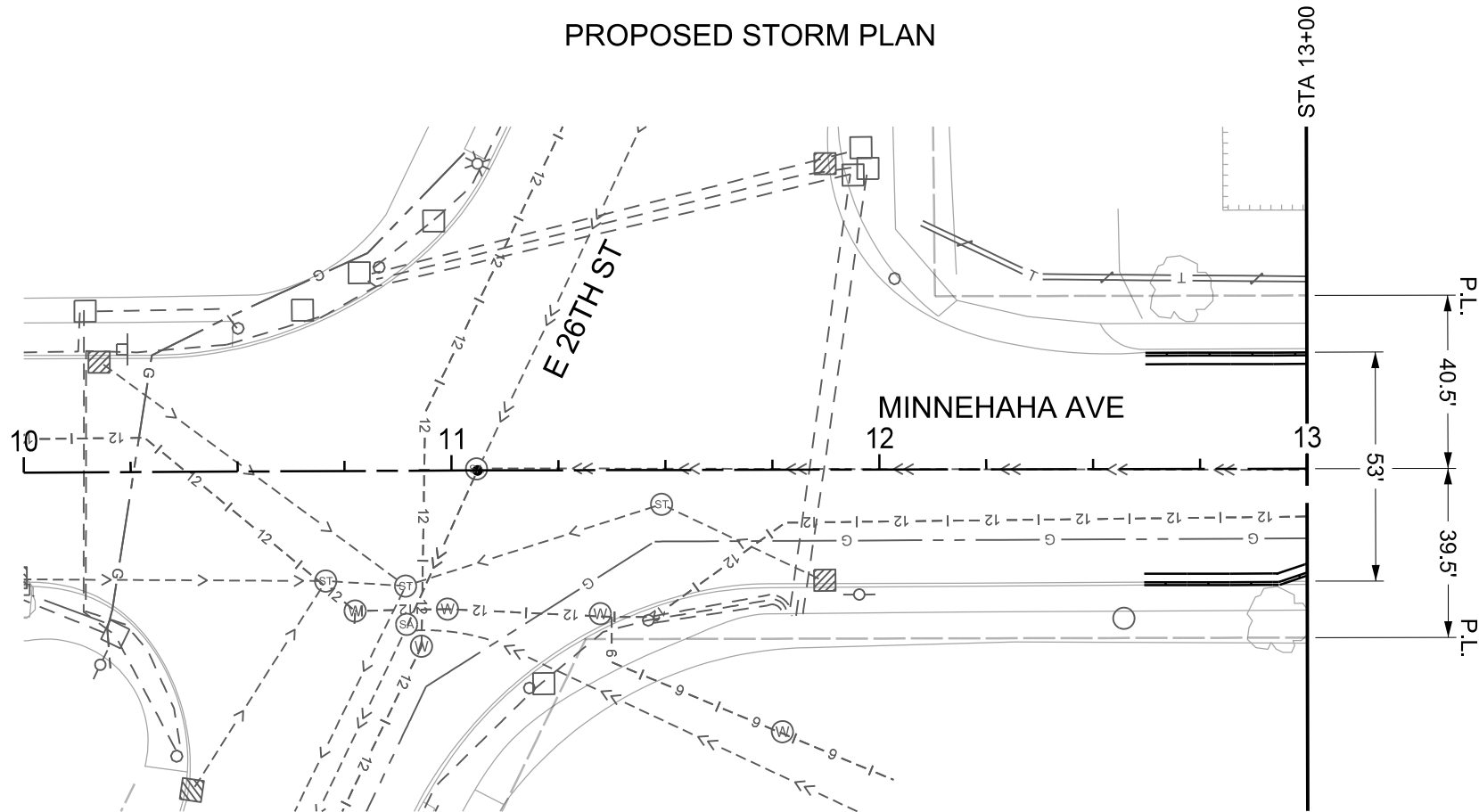
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DATE

| INTERSECTION DETAILS | | | | MINNEHAHA AVE 26TH TO 24TH | |
|---|----------|----------------|--|----------------------------|--|
|  MINNEAPOLIS DEPARTMENT OF PUBLIC WORKS | DRW: JFN | DATE: 03/25/15 | L.P. 600D 6754 S.A.P. 141-191-009 | | |
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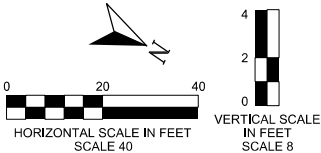
INT3
OF
INT3

FILE NAME = 6754-STRM-001.dgn
DATE PRINTED = 5/26/2015 8:29:20 AM



NO PROPOSED STORM WORK
IN THIS AREA

Change numbers
to 45 OF 96



| NO. | DATE | DRW | CKD | APP | REVISION |
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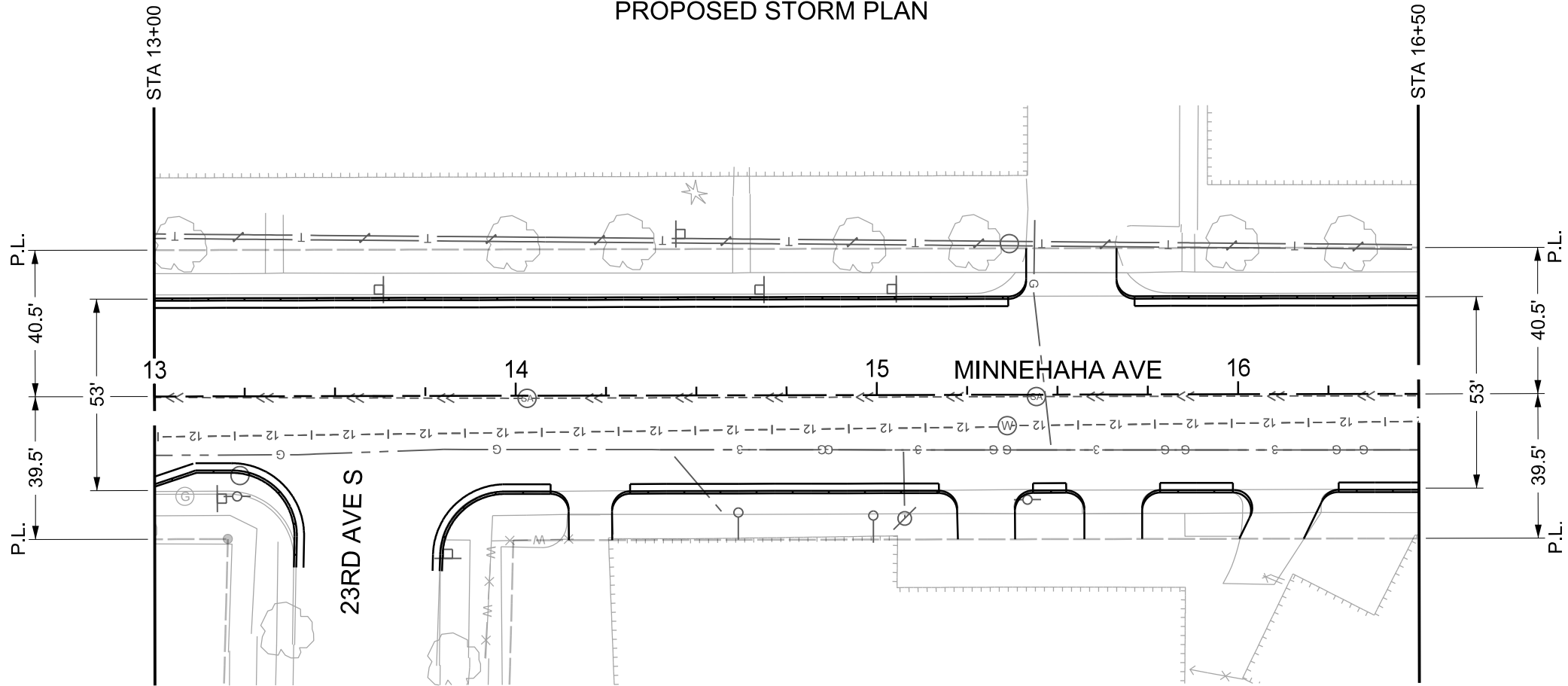
BEVERLY JO WARMKA
LIC. NO. 43843
DATE

| STORM SEWER PLAN/PROFILE | | | | MINNEHAHA AVE 26TH TO 24TH | |
|--------------------------|---|----------|----------------|----------------------------|--------------------|
| | MINNEAPOLIS DEPARTMENT OF PUBLIC WORKS | DRW: JFN | DATE: 03/30/15 | L.P. 600D 6754 | S.A.P. 141-191-009 |
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| | | APP: BJW | DATE: | | |

ST1
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ST5

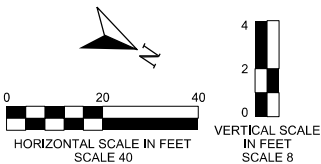
PROPOSED STORM PLAN

NO PROPOSED STORM WORK
IN THIS AREA



FILE NAME = 6754-STRM-002.dgn
DATE PRINTED = 5/26/2015
8:29:22 AM


Change numbers
to 46 OF 96



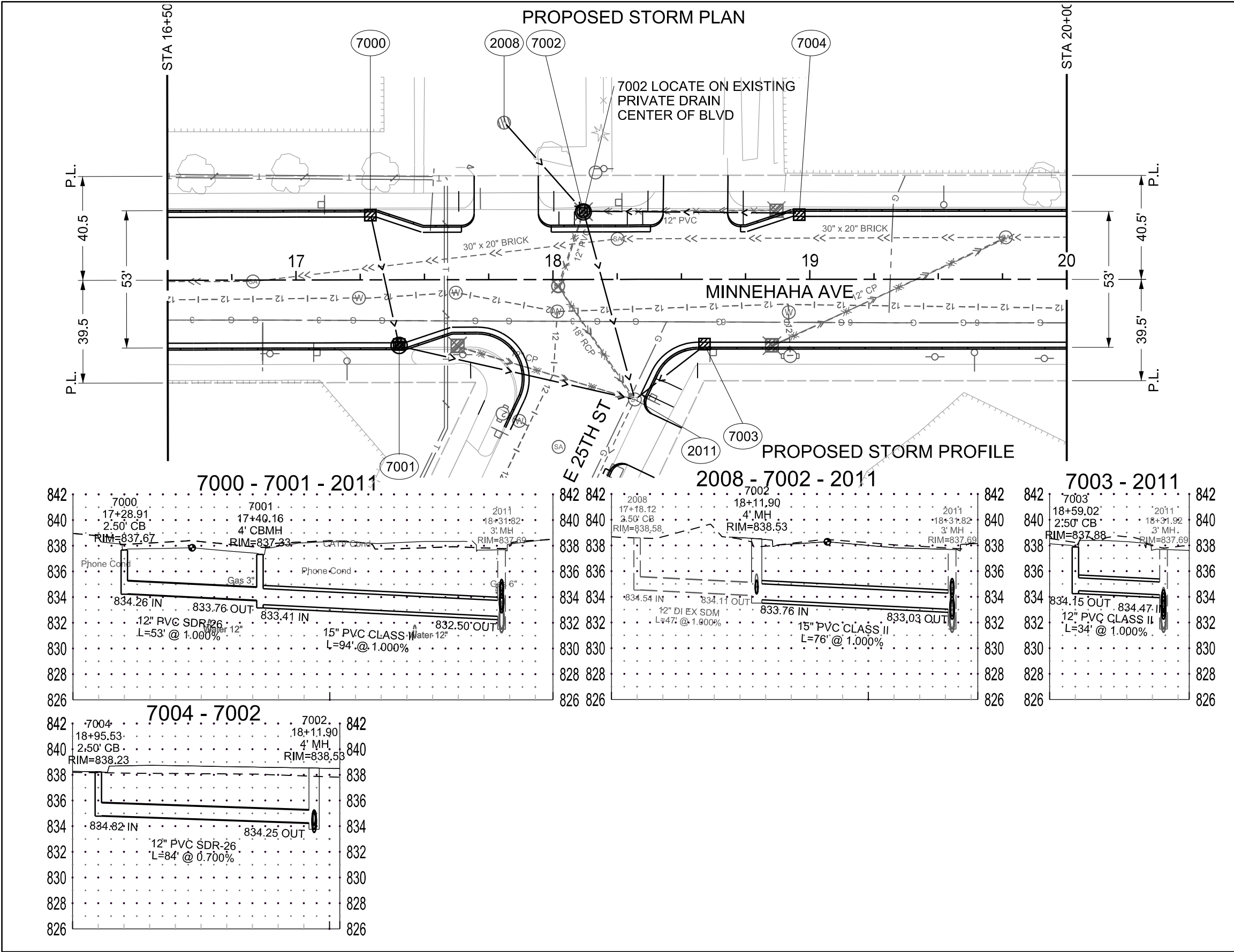
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LIC. NO. 43843
DATE

| STORM SEWER PLAN/PROFILE | | | | MINNEHAHA AVE 26TH TO 24TH | |
|---|----------|----------------|--|-----------------------------------|------------------|
|  MINNEAPOLIS DEPARTMENT OF PUBLIC WORKS | DRW: JFN | DATE: 03/30/15 | | L.P. 600D 6754 S.A.P. 141-191-009 | ST2 OF ST5 |
| | CHK: HRV | DATE: | | | |
| | APP: BJW | DATE: | | | |

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DATE PRINTED = 5/26/2015
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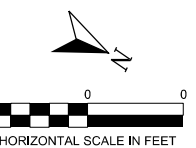


| MINNEHAHA AVE 26TH TO 24TH | | | | |
|----------------------------|-------------|--------------------------------------|--------|-----------------|
| STA 16+50.00 TO 20+00.00 | | | | |
| LEGEND | ITEM NUMBER | DESCRIPTION | UNIT | ESTIMATED TOTAL |
| --X-- | 2104.501 | REMOVE SEWER PIPE (STORM) | LIN FT | 332 |
| ⊗ | 2104.509 | REMOVE MANHOLE | EACH | 1 |
| ⊗ | 2104.509 | REMOVE CATCH BASIN | EACH | 5 |
| → | 2503.603 | 12" PVC PIPE SEWER | LIN FT | 171 |
| → | 2503.603 | 15" PVC PIPE SEWER | LIN FT | 170 |
| ⊙ | 2506.501 | CONST DRAINAGE STRUCTURE DES 48-4020 | LIN FT | 6 |
| ⊗ | 2506.502 | CONST DRAINAGE STRUCTURE DESIGN N | EACH | 4 |
| | 2506.516 | CASTING ASSEMBLY | EACH | 1 |
| | 2506.602 | CONNECT INTO EXISTING MANHOLE | EACH | 3 |

| MINNEHAHA AVE 26TH TO 24TH | | | | | | | | | | | | |
|----------------------------|---|----------|-------|-------|------------------|------------------|---|---|------------------|------------------|----------------------------|--|
| STA 16+50.00 TO 20+00.00 | | | | | | | | | | | | |
| N U M B E R | A L I G N M E N T | LOCATION | | | T Y P E | S I Z E | C O N S T R U C T | D R A I N S I Z E | P I P E | T Y P E | L E N G T H | C R E A M T A R K S |
| | | | | | | | | | | | | |
| | | | LEFT | RIGHT | | | | | | | | |
| 7000 | MIN | 17+28.91 | 25.38 | | PMCB | 30 | 3.4 | 7001 | 12 | PVC | 53 | B-13 |
| 7001 | MIN | 17+40.16 | | 25.38 | PCBM | 48 | 3.5 | 2011 | 15 | RCP | 94 | B-13 |
| 7002 | MIN | 18+11.90 | 26.31 | | PSDM | 48 | 4.8 | 2011 | 15 | RCP | 76 | A-8D |
| 7003 | MIN | 18+59.02 | | 25.38 | PMCB | 30 | 3.4 | 2011 | 12 | PVC | 34 | B-13 |
| 7004 | MIN | 18+95.53 | 25.38 | | PMCB | 30 | 3.4 | 7002 | 12 | PVC | 84 | B-13 |
| 2008 | MIN | 17+81.12 | 25.56 | | EX | 30 | | 7002 | | | | EX |
| 2011 | MIN | 18+31.82 | | 46.80 | EX | 30 | | | | | | EX |

LEGEND
PMCB : PROPOSED STORM SEWER CATCH BASIN
PSDM : PROPOSED STORM SEWER MANHOLE
PCBM : PROPOSED STORM SEWER CATCH BASIN MANHOLE

Change numbers
to 47 OF 96




HORIZONTAL SCALE IN FEET
SCALE 00

VERTICAL SCALE
IN FEET
SCALE 00

| NO. | DATE | DRW | CKD | APP | REVISION |
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LIC. NO. 43843
DATE



MINNEAPOLIS
DEPARTMENT OF
PUBLIC WORKS

DRW: JFN
CHK: HRV
APP: BJW

DATE: 03/30/15
DATE: 03/30/15
DATE:

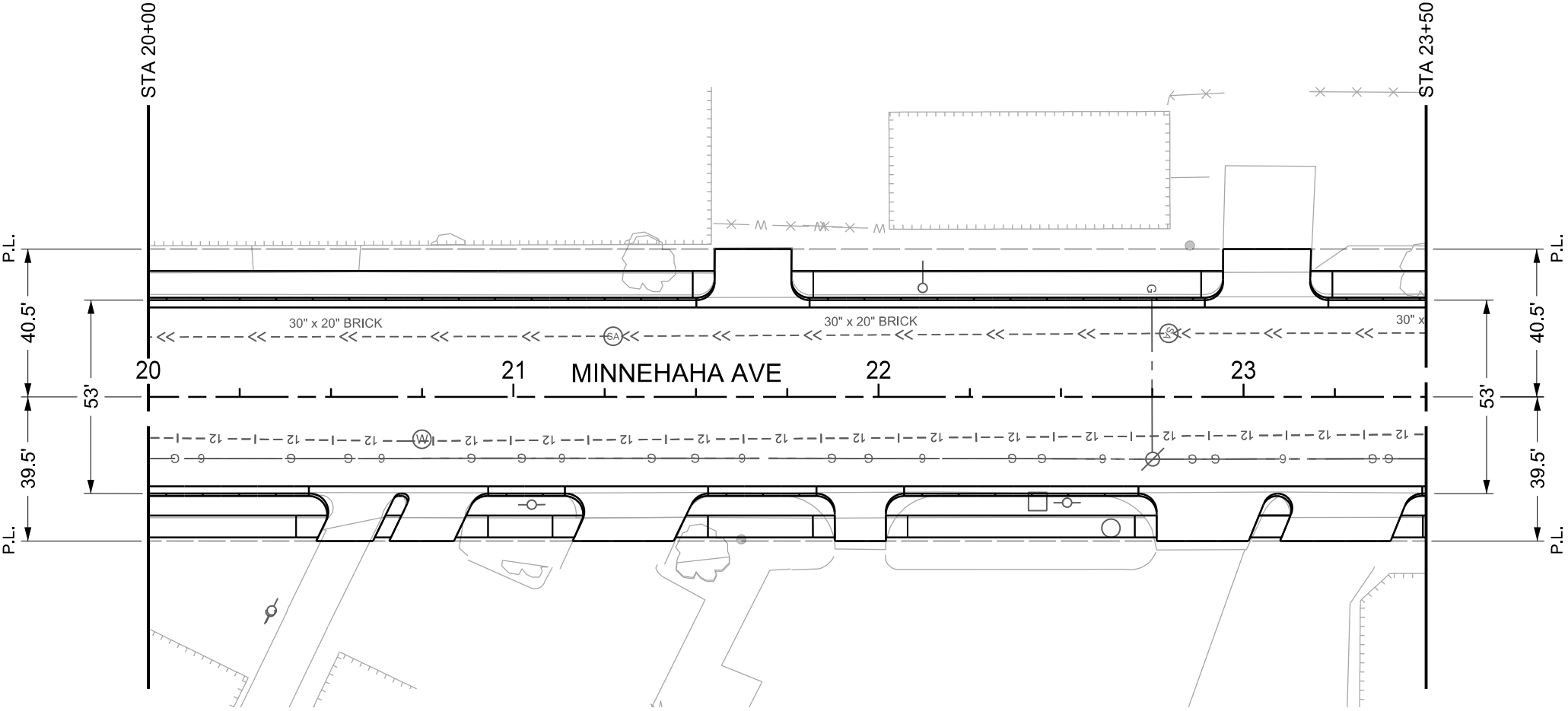
MINNEHAHA AVE 26TH TO 24TH

L.P. 600D 6754 S.A.P. 141-191-009

ST3
OF
ST5

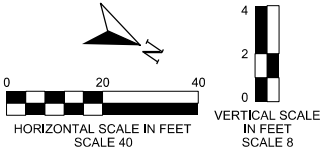
PROPOSED STORM PLAN

NO PROPOSED STORM WORK
IN THIS AREA



Change numbers
to 48 OF 96

FILE NAME = 6754-STRM-004.dgn
DATE PRINTED = 5/26/2015
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LIC. NO. 43843
DATE

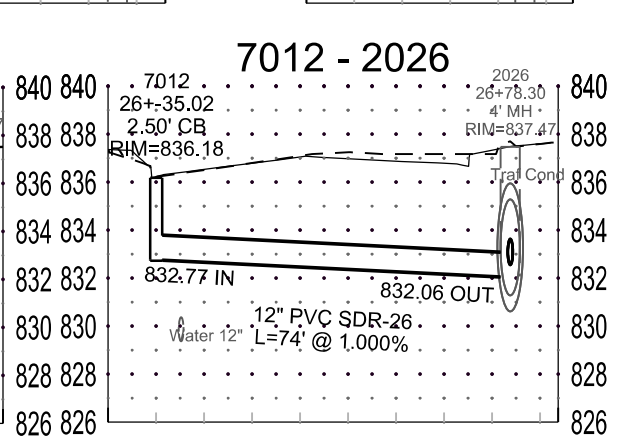
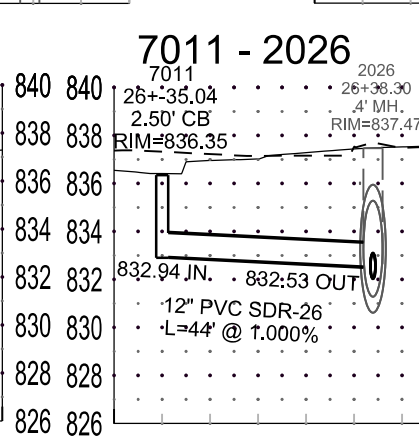
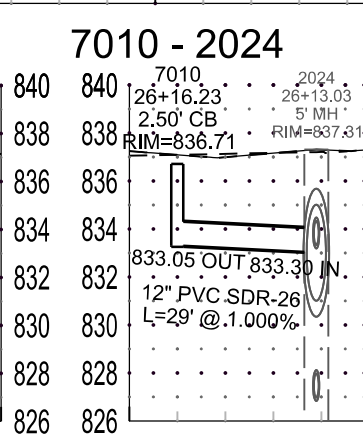
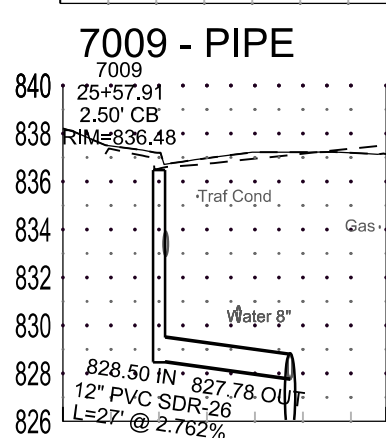
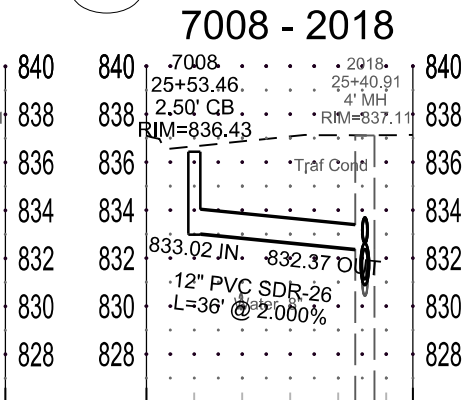
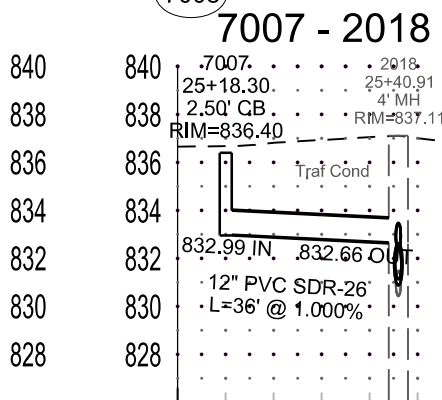
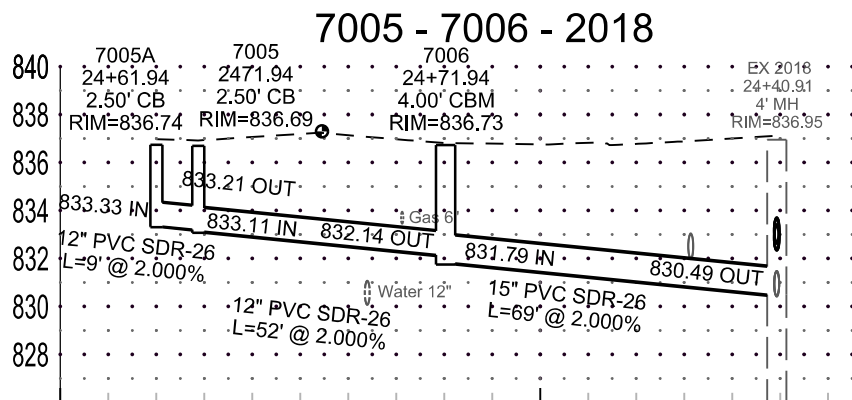
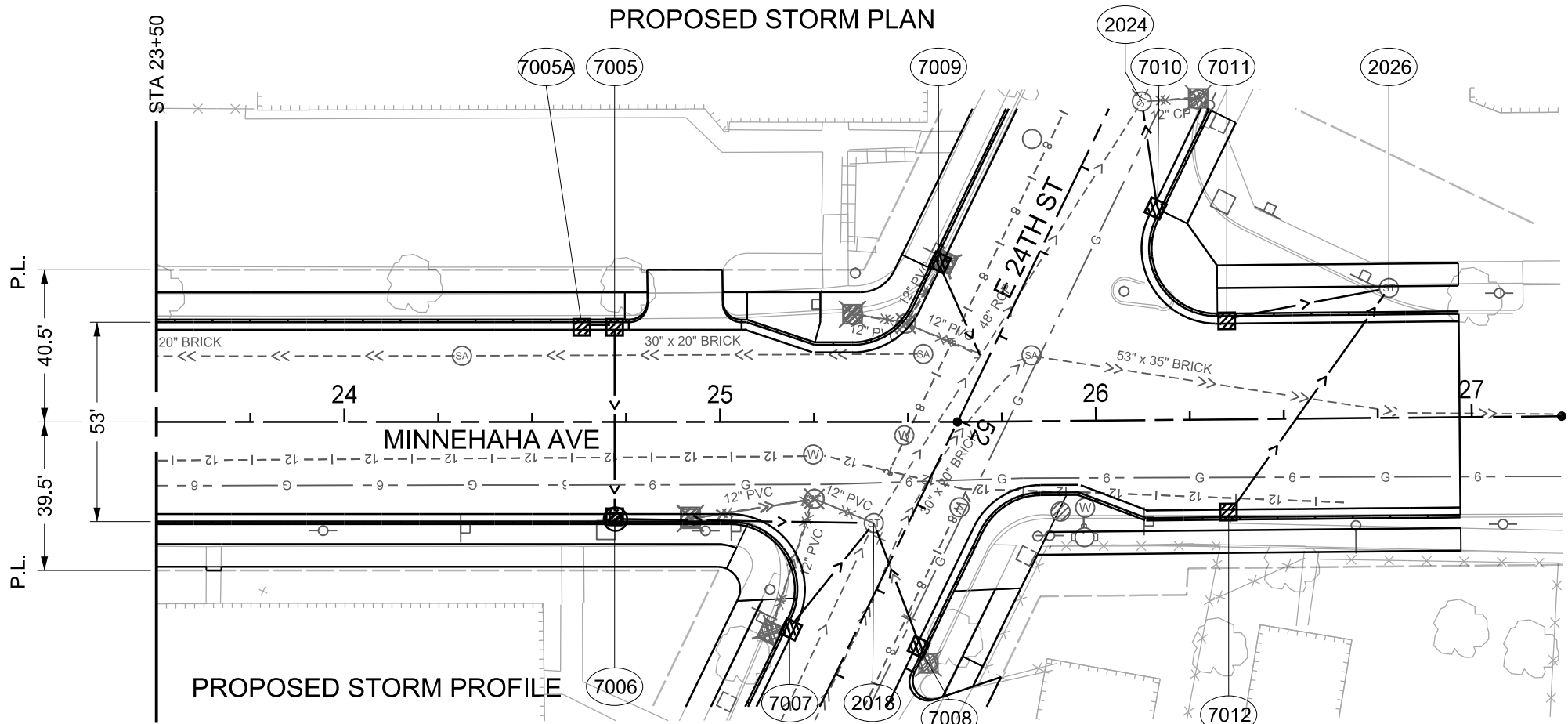
| STORM SEWER PLAN/PROFILE | | | |
|---|----------------------|----------|----------------|
|  | MINNEAPOLIS | | DRW: GPS |
| | DEPARTMENT OF | | DATE: 03/27/15 |
| | PUBLIC WORKS | | CHK: HRV |
| | | APP: BJW | DATE: |

MINNEHAHA AVE 26TH TO 24TH

L.P. 600D 6754 S.A.P. 141-191-009

ST4
OF
ST5

FILE NAME = 6754-STRM-005.dgn
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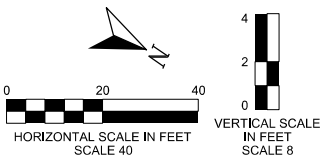


| MINNEHAHA AVE 26TH TO 24TH | | | | |
|----------------------------|-------------|--------------------------------------|--------|-----------------|
| STA 23+50.00 TO END | | | | |
| LEGEND | ITEM NUMBER | DESCRIPTION | UNIT | ESTIMATED TOTAL |
| --- | 2104.501 | REMOVE SEWER PIPE (STORM) | LIN FT | 194 |
| ⊗ | 2104.509 | REMOVE MANHOLE | EACH | 2 |
| ⊠ | 2104.509 | REMOVE CATCH BASIN | EACH | 5 |
| | 2502.602 | CONNECT TO EXISTING PIPE DRAIN | EACH | 1 |
| → | 2503.603 | 12" PVC PIPE SEWER | LIN FT | 308 |
| → | 2503.603 | 15" PVC PIPE SEWER | LIN FT | 69 |
| ⊙ | 2506.501 | CONST DRAINAGE STRUCTURE DES 48-4020 | LIN FT | 5 |
| ⊠ | 2506.502 | CONST DRAINAGE STRUCTURE DESIGN N | EACH | 8 |
| | 2506.602 | CONNECT INTO EXISTING MANHOLE | EACH | 6 |

| MINNEHAHA AVE 26TH TO 24TH | | | | | | | | | | | | |
|----------------------------|---|----------|--------|------------------|------------------|---|---|--------------------------------------|------------------|----------------------------|---|--------|
| STA 23+50.00 TO END | | | | | | | | | | | | |
| N U M B E R | A L I G N M E N T | LOCATION | | T Y P E | S I Z E | C O N S T R U C T | D R A I N S I Z E | P I P E S I Z E | T Y P E | L E N G T H | C R E A S M T A R K S | G S |
| | | | | | | | | | | | | |
| | | STATION | OFFSET | | | | | | | | | |
| | | | LEFT | RIGHT | | IN | FT | | IN | FT | | |
| 7005 | MIN | 24+71.94 | 25.38 | | PMCB | 30 | 3.6 | 7006 | 12 | PVC | 52 | B-13 |
| 7005A | MIN | 24+63.21 | 25.38 | | PMCB | 30 | 3.4 | 7005 | 12 | PVC | 10 | B-13 |
| 7006 | MIN | 24+71.94 | | 25.38 | PCBM | 48 | 4.9 | 2018 | 15 | RCP | 69 | B-13 |
| 7007 | MIN | 25+18.30 | | 54.89 | PMCB | 30 | 3.4 | 2018 | 12 | PVC | 36 | B-13 |
| 7008 | MIN | 25+53.46 | | 60.16 | PMCB | 30 | 3.4 | 2018 | 12 | PVC | 36 | B-13 |
| 7009 | MIN | 25+57.91 | 42.65 | | PMCB | 30 | 8.0 | PIPE | 12 | PVC | 27 | B-13 |
| 7010 | MIN | 26+16.23 | 56.05 | | PMCB | 30 | 3.7 | 2024 | 12 | PVC | 29 | B-13 |
| 7011 | MIN | 26+35.04 | 26.88 | | PMCB | 30 | 3.4 | 2026 | 12 | PVC | 44 | B-13 |
| 7012 | MIN | 26+35.02 | | 25.38 | PMCB | 30 | 3.4 | 2026 | 12 | PVC | 74 | B-13 |
| 2024 | MIN | 26+13.03 | 84.79 | | EX | 60 | | | | | | EX |
| 2026 | MIN | 26+78.30 | 34.55 | | EX | 48 | | | | | | EX |

LEGEND
PMCB : PROPOSED STORM SEWER CATCH BASIN
PSDM : PROPOSED STORM SEWER MANHOLE
PCBM : PROPOSED STORM SEWER CATCH BASIN MANHOLE

Change numbers
to 49 OF 96



| NO. | DATE | DRW | CKD | APP | REVISION |
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BEVERLY JO WARMKA
LIC. NO. 43843
DATE



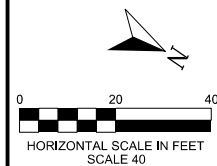
MINNEAPOLIS
DEPARTMENT OF
PUBLIC WORKS

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| DRW: GPS | DATE: 02/25/15 |
| CHK: HRV | DATE: 05/11/15 |
| APP: BJW | DATE: 05/12/15 |

MINNEHAHA AVE 26TH TO 24TH
L.P. 600D 6754 S.A.P. 141-191-009

ST5
OF
ST5

FILE NAME = 6754-STRIPESIGN-001.dgn
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BEVERLY JO WARMKA
43843
LIC. NO. DATE



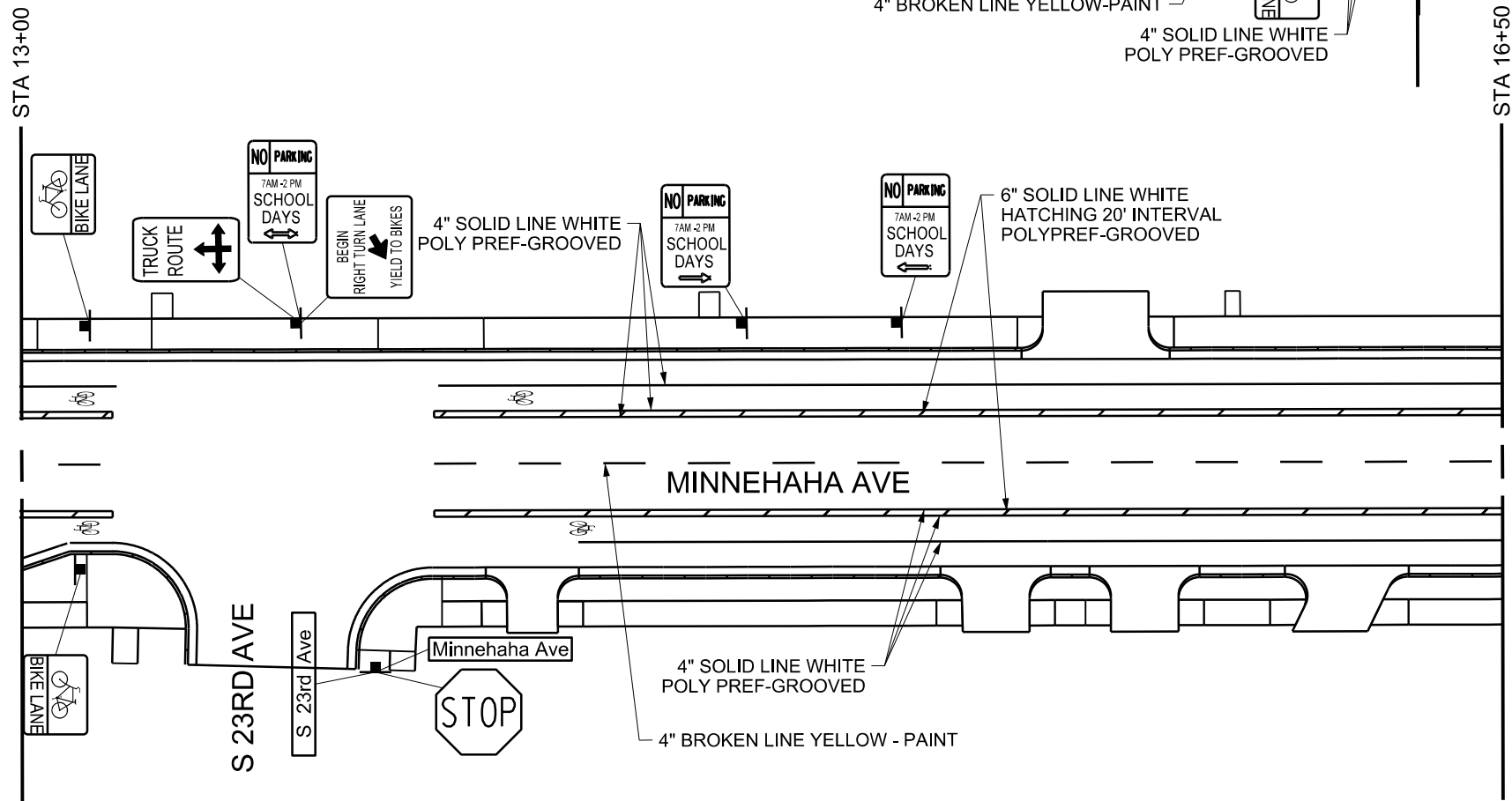
MINNEAPOLIS
DEPARTMENT OF
PUBLIC WORKS

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| DRW: JFN | DATE: 03/27/15 |
| CHK: HRV | DATE: |
| APP: BJW | DATE: |

MINNEHAHA AVE 26TH TO 24TH

L.P. 600D 6754 S.A.P. 141-191-009

SS1
OF
SS3



BEGIN PAVING
PROJECT 141-191-009
STA. 12+62.25

4" SOLID LINE WHITE
POLY PREF-GROOVED

MINNEHAHA AVE

6" SOLID LINE WHITE
HATCHING 20' INTERVAL
POLYPREF-GROOVED

4" BROKEN LINE YELLOW-PAINT

4" SOLID LINE WHITE
POLY PREF-GROOVED

4" SOLID LINE WHITE
POLY PREF-GROOVED

6" SOLID LINE WHITE
HATCHING 20' INTERVAL
POLYPREF-GROOVED

MINNEHAHA AVE

4" SOLID LINE WHITE
POLY PREF-GROOVED

4" BROKEN LINE YELLOW - PAINT

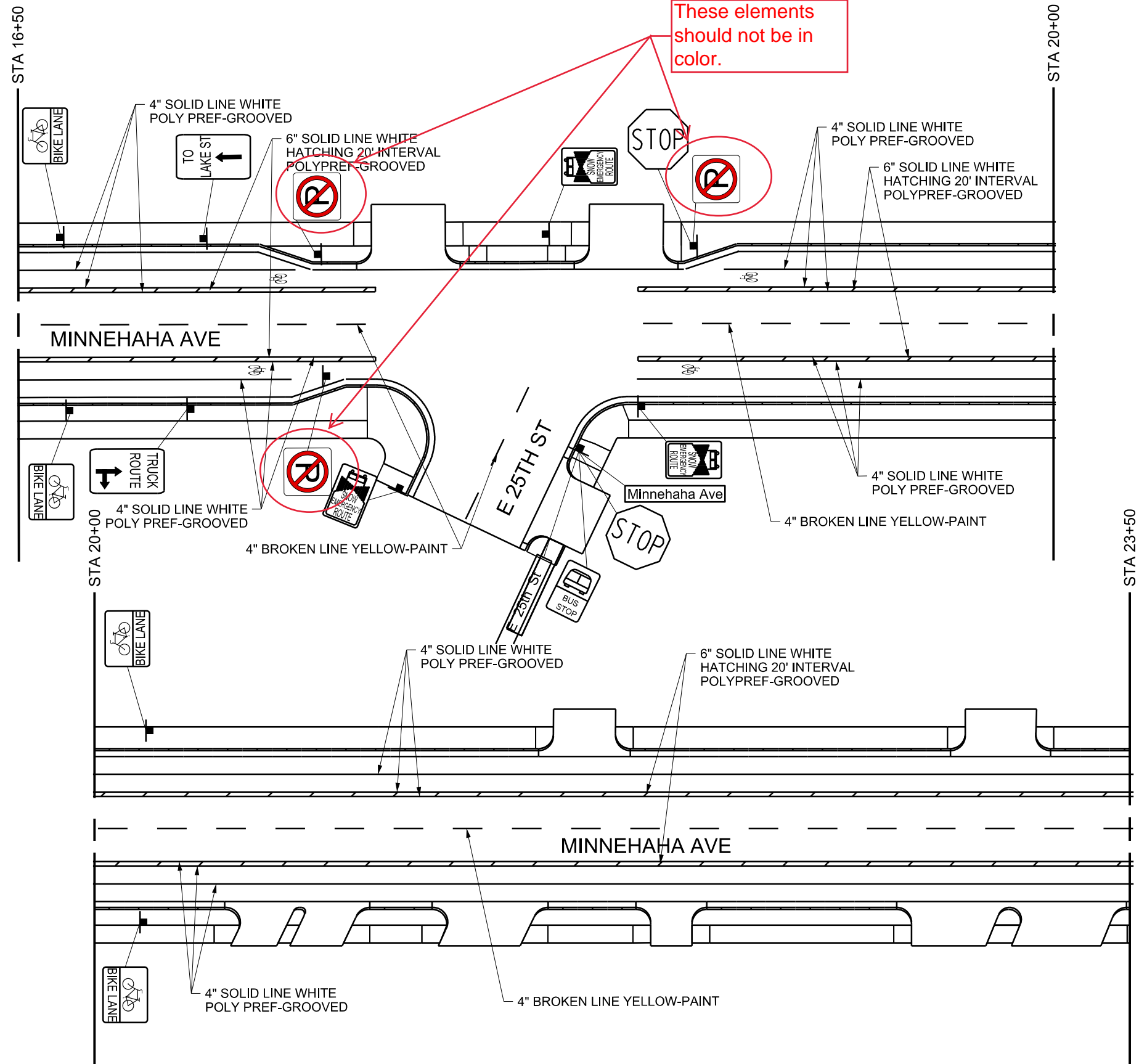
MINNEHAHA AVE 24TH TO 26TH

BEGINNING TO STA. 16+50

| LEGEND | ITEM NUMBER | DESCRIPTION | UNIT | ESTIMATED TOTAL |
|--------|-------------|---------------------------------|--------|-----------------|
| | 2564.537 | INSTALL SIGN TYPE C | EACH | 8 |
| | 2564.602 | INSTALL SIGN COLLOR | EACH | 5 |
| | 2582.501 | PAVEMENT MESSAGE (BIKE SYMBOL) | EACH | 4 |
| | 2582.502 | 4" SOLID LINE WHITE-POLY PREF | LIN FT | 921 |
| | 2582.502 | 6" SOLID LINE WHITE-POLY PREF | LIN FT | 890 |
| | 2582.502 | 4" BROKEN LINE YELLOW-POLY PREF | LIN FT | 312 |
| | 2550-511 | SIGN FOUNDATION | EACH | 3 |

Change numbers
to 50 OF 96

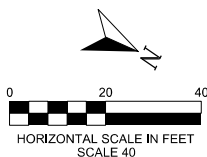
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DATE PRINTED = 5/26/2015
8:29:34 AM



MINNEHAHA AVE 26TH TO 24TH

STA 16+50 TO STA 23+50

| LEGEND | ITEM NUMBER | DESCRIPTION | UNIT | ESTIMATED TOTAL |
|--------|-------------|---------------------------------|--------|-----------------|
| | 2564-537 | INSTALL SIGN TYPE C | EACH | 15 |
| | 2564-602 | INSTALL SIGN COLLOR | EACH | 4 |
| | 2582-501 | PAVEMENT MESSAGE (BIKE SIMBOL) | EACH | 4 |
| | 2582-502 | 4" SOLID LINE WHITE-POLY PREF | LIN FT | 1140 |
| | 2582-502 | 6" SOLID LINE WHITE-POLY PREF | LIN FT | 1224 |
| | 2582-502 | 4" BROKEN LINE YELLOW-POLY PREF | LIN FT | 662 |
| | 2550-511 | SIGN FOUNDATION | EACH | 7 |



| NO. | DATE | DRW | CKD | APP | REVISION |
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I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

BEVERLY JO WARMKA
43843
LIC. NO. DATE



MINNEAPOLIS
DEPARTMENT OF
PUBLIC WORKS

STRIPING/SIGNING PLAN
DRW: MMA DATE: 03/27/15
CHK: HRV DATE:
APP: BJW DATE:







MINNEHAHA AVE 26TH TO 24TH

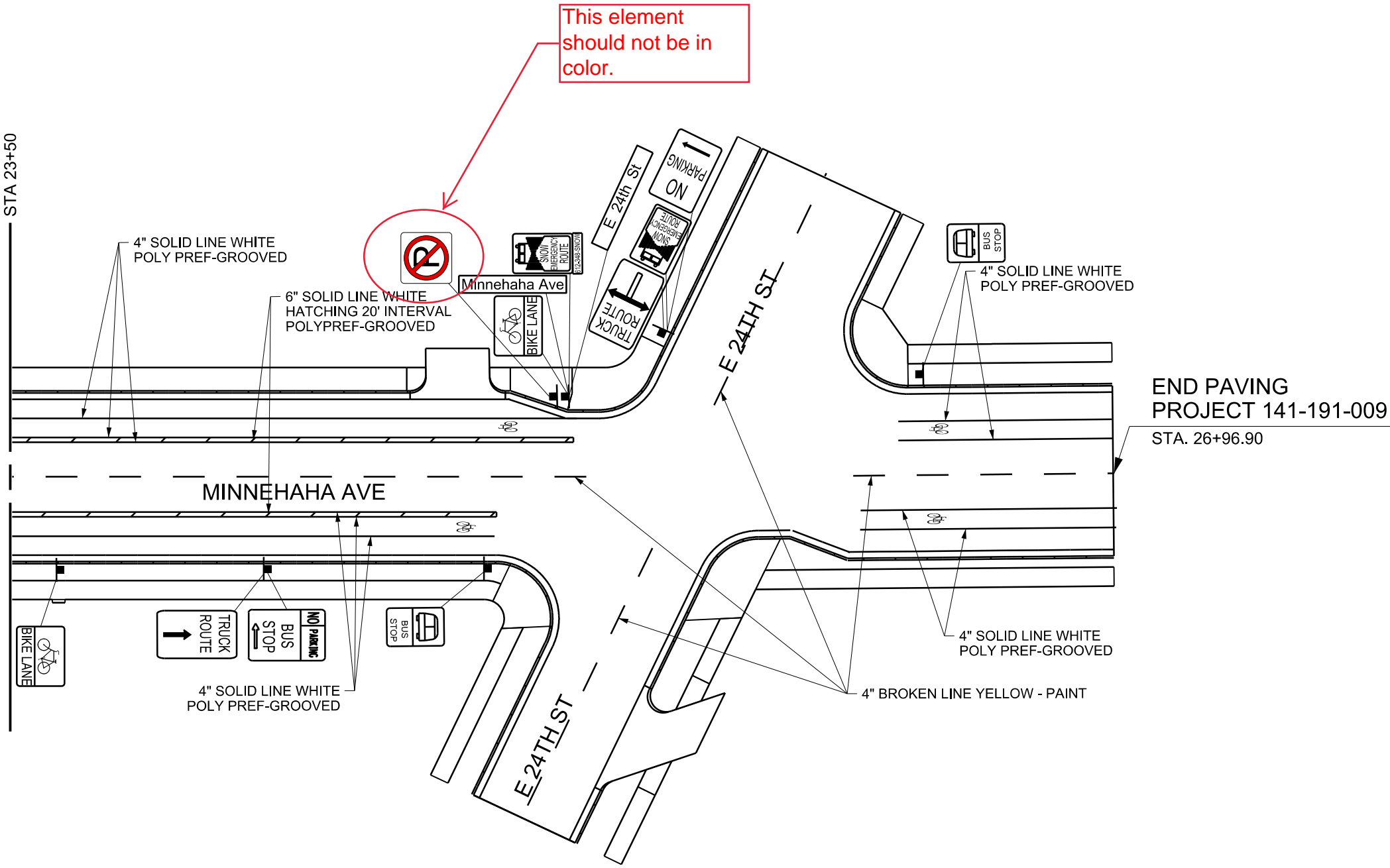
L.P. 600D 6754 S.A.P. 141-191-009

SS 2
OF
SS 3

MINNEHAHA AVE 26TH TO 24TH

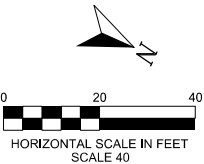
STA 23+50 TO END

| LEGEND | ITEM NUMBER | DESCRIPTION | UNIT | ESTIMATED TOTAL |
|---|-------------|---------------------------------|--------|-----------------|
|  | 2564-537 | INSTALL SIGN TYPE C | EACH | 12 |
|  | 2564-602 | INSTALL SIGN COLLOR | EACH | 3 |
|  | 2582-501 | PAVEMENT MESSAGE (BIKE SIMBOL) | EACH | 2 |
|  | 2582-502 | 4" SOLID LINE WHITE-POLY PREF | LIN FT | 540 |
|  | 2582-502 | 6" SOLID LINE WHITE-POLY PREF | LIN FT | 540 |
|  | 2582-502 | 4" BROKEN LINE YELLOW-POLY PREF | LIN FT | 468 |
| | 2550-511 | SIGN FOUNDATION | EACH | 4 |



Change numbers to 52 OF 96

FILE NAME = 6754-STRIPESIGN-003.dgn
DATE PRINTED = 5/26/2015
8:29:37 AM



| NO. | DATE | DRW | CKD | APP | REVISION |
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BEVERLY JO WARMKA 43843 DATE

LIC. NO.



MINNEAPOLIS
DEPARTMENT OF
PUBLIC WORKS

DRW: MMA DATE: 03/27/15

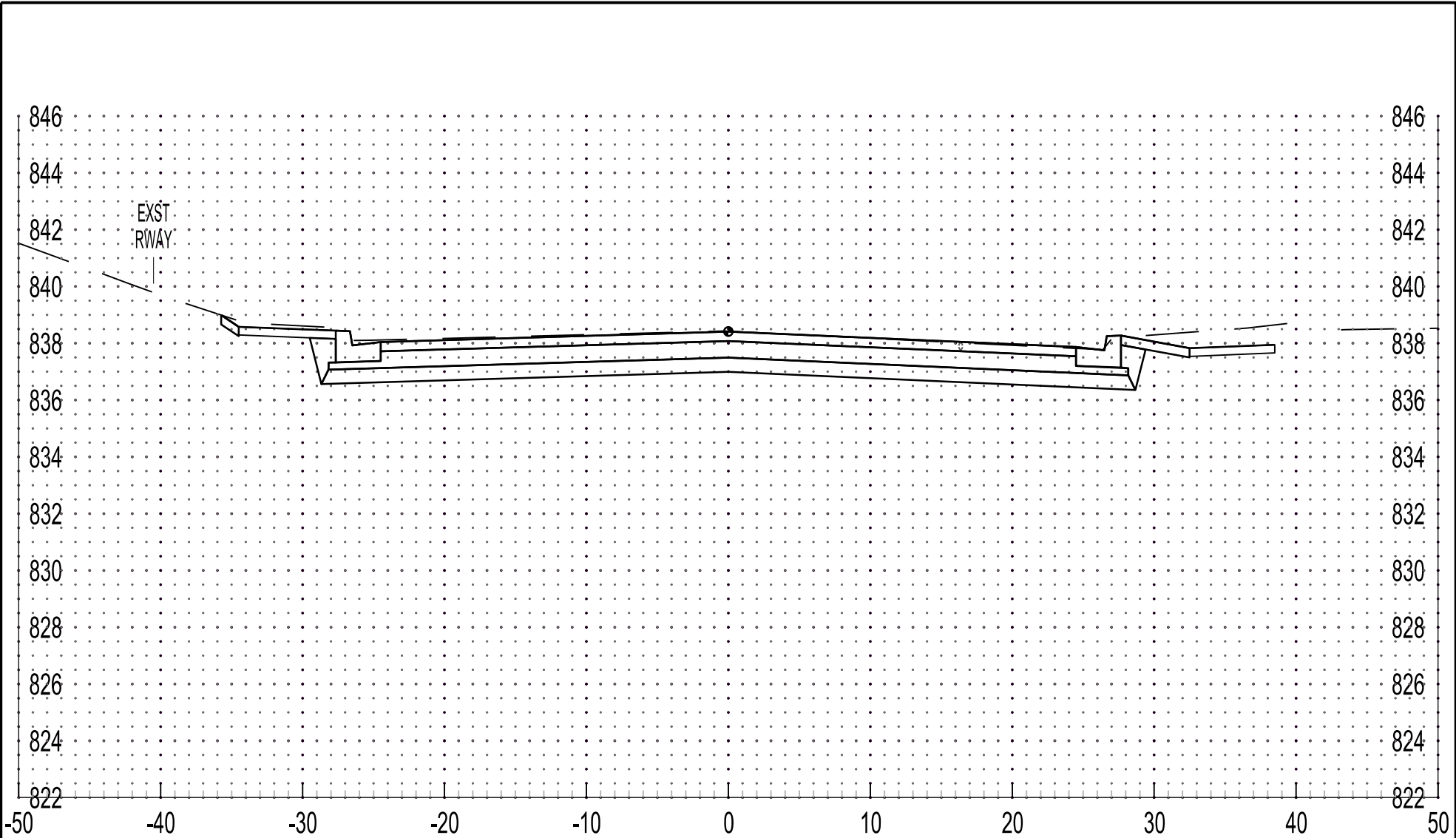
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APP: BJW DATE:

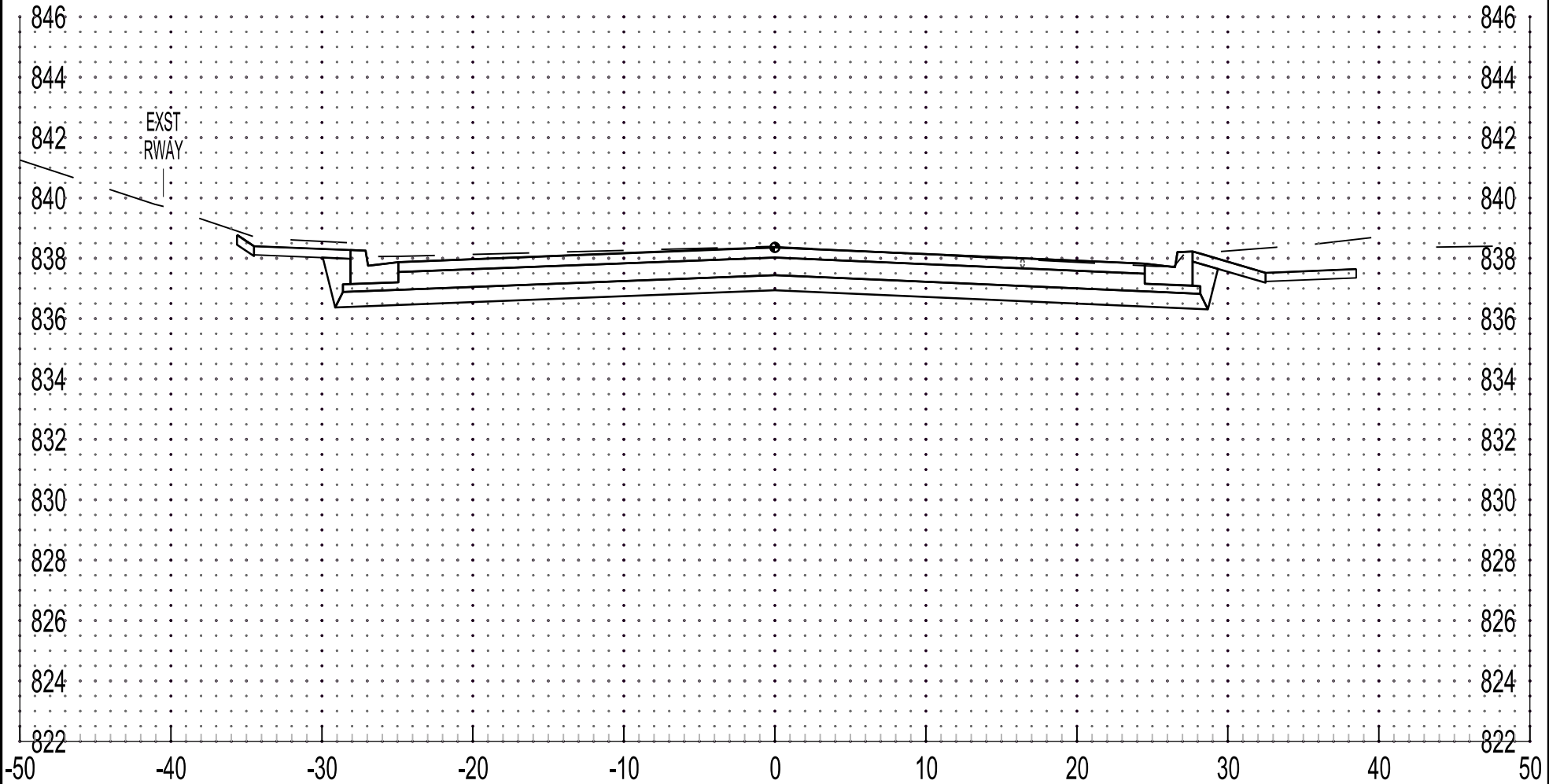
MINNEHAHA AVE 26TH TO 24TH

L.P. 600D 6754 S.A.P. 141-191-009

SS3
OF
SS3

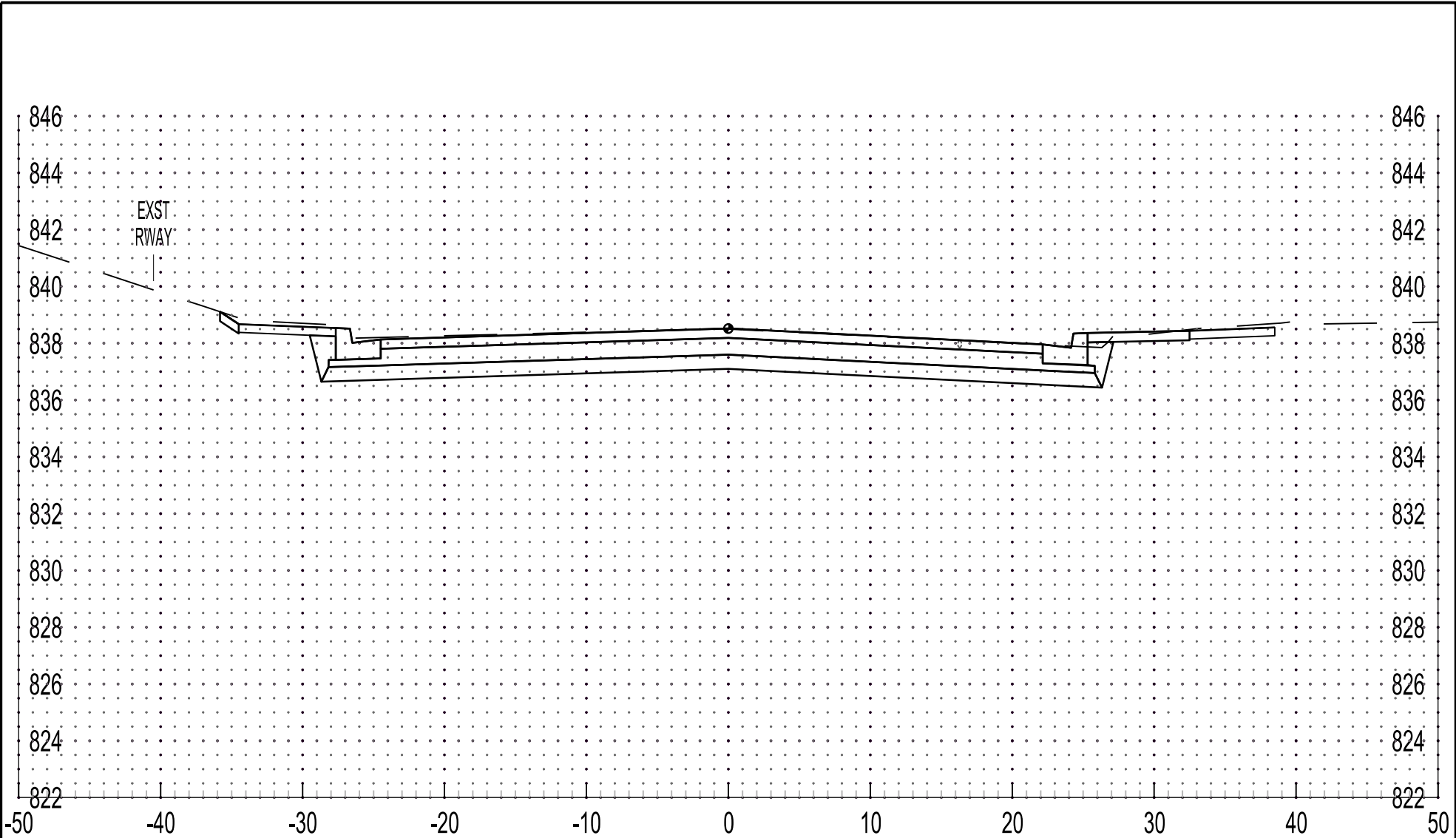


STA=12+75.00

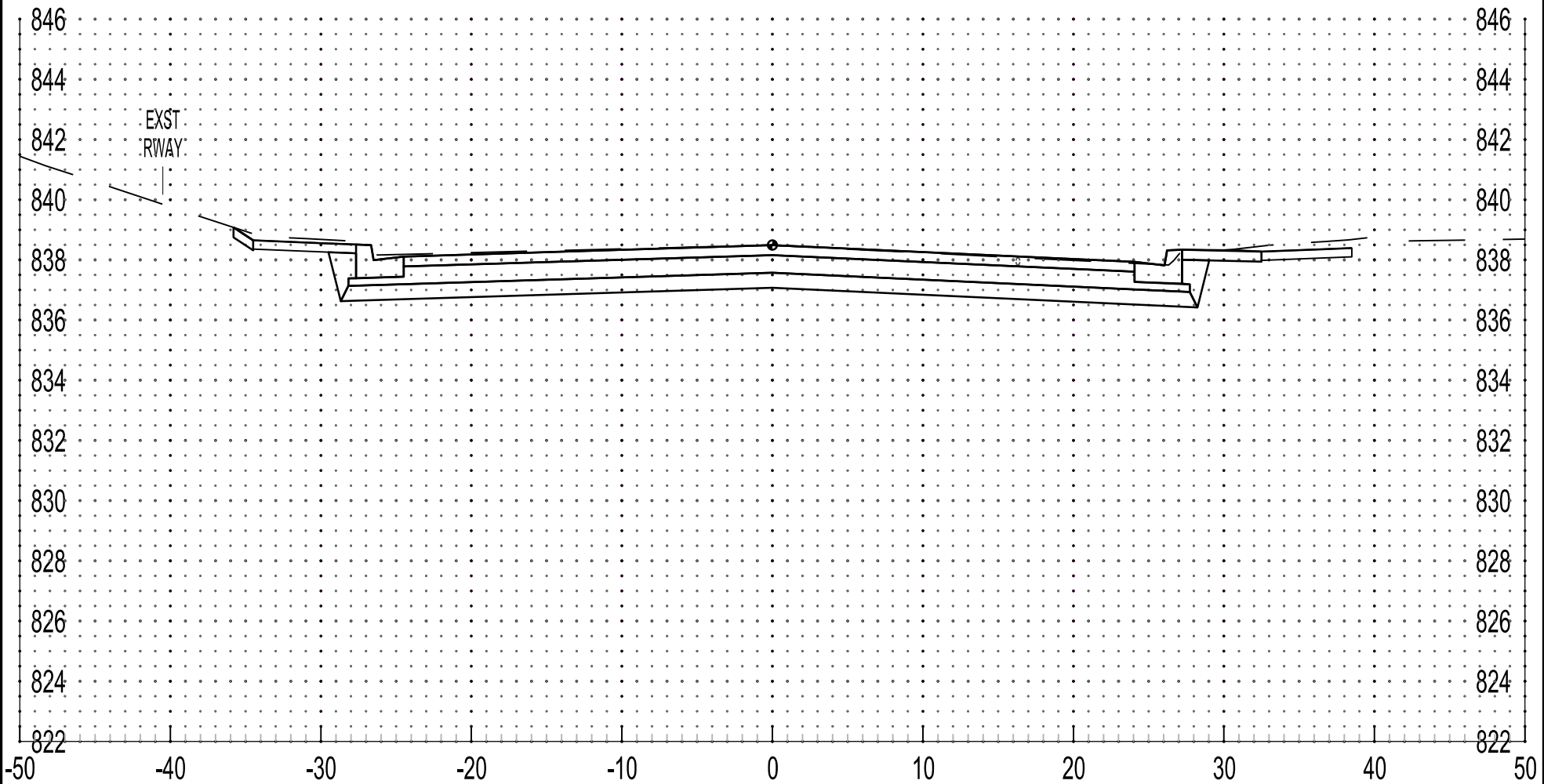


STA=12+62.25

Change numbers
to 53 OF 96

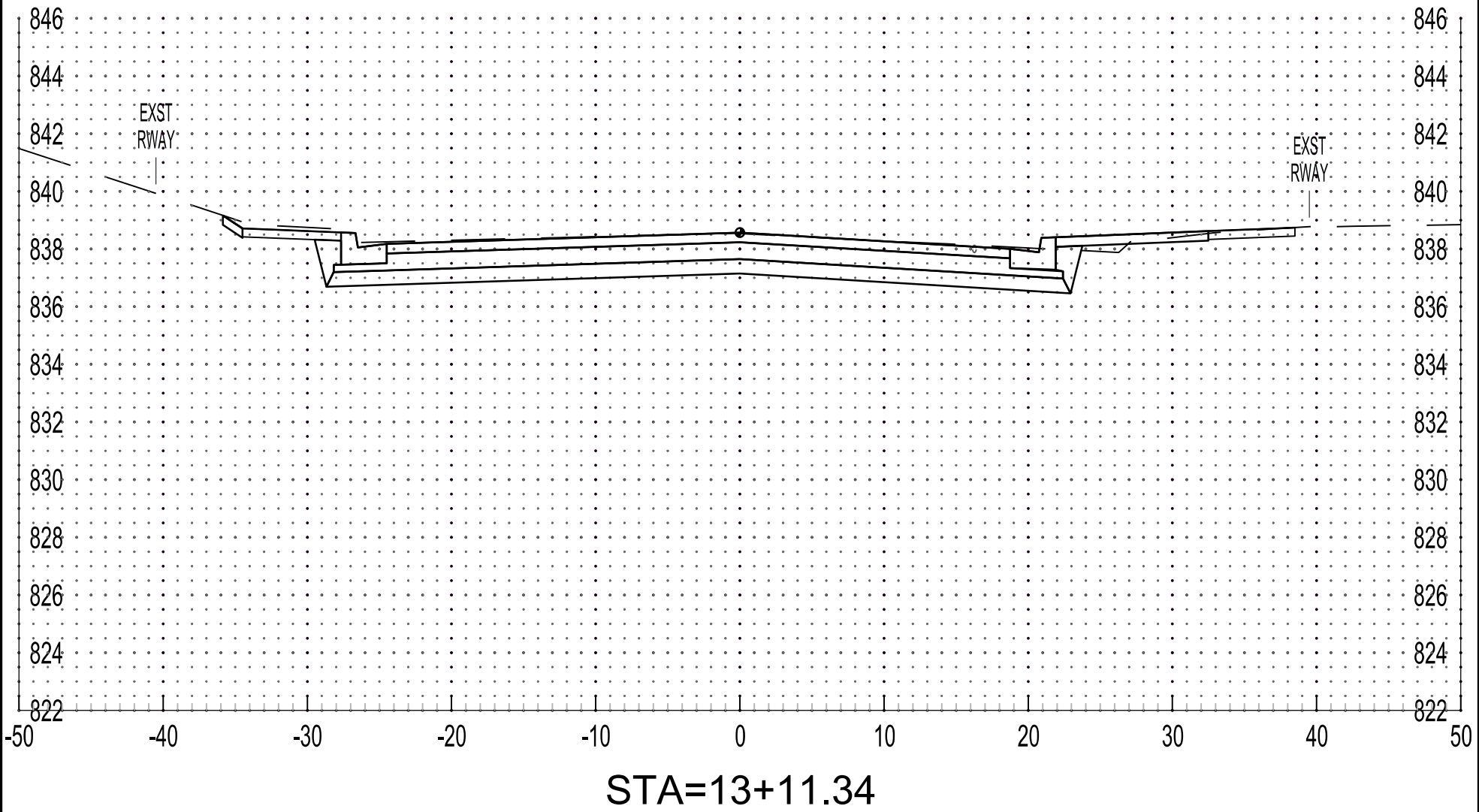
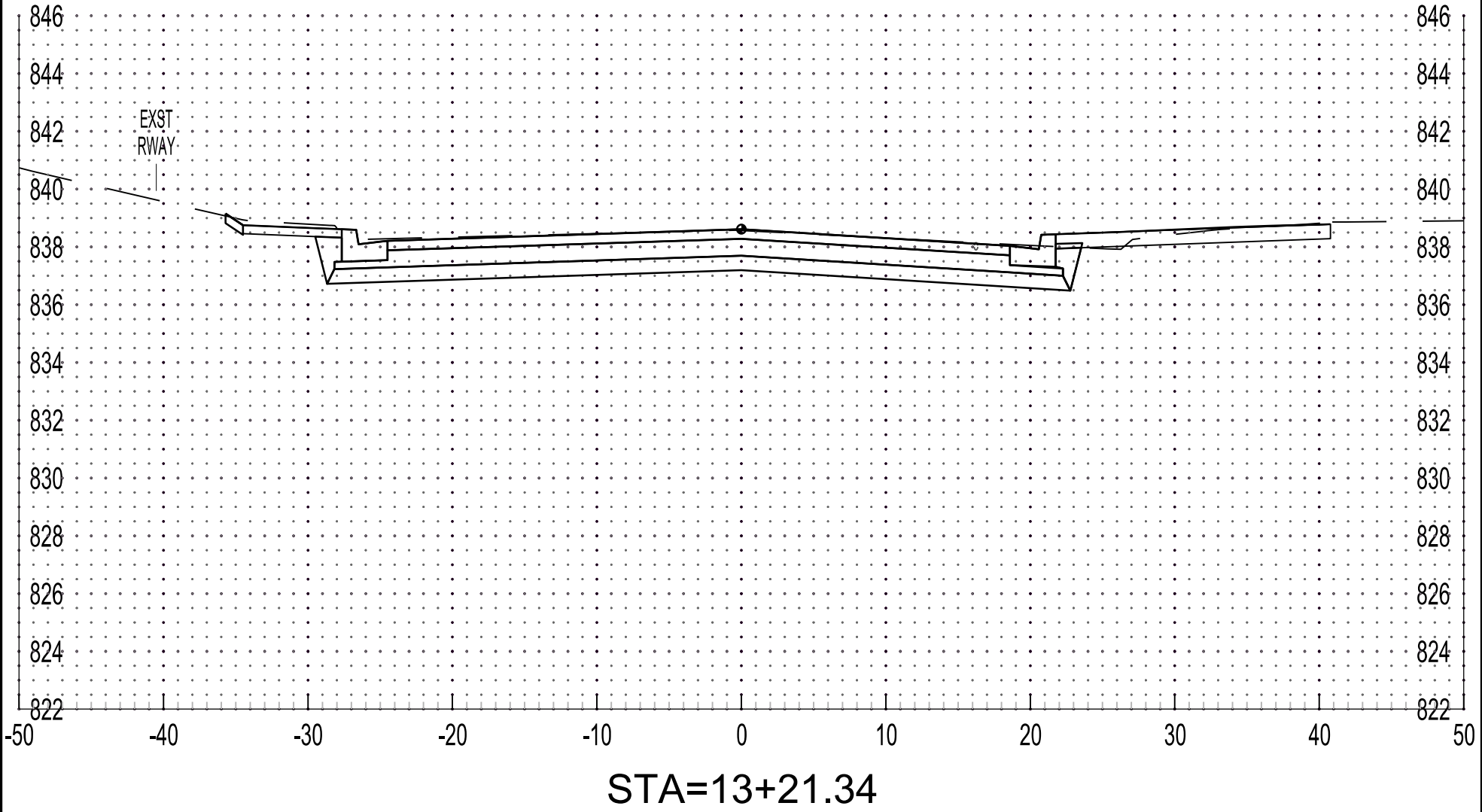


STA=13+00.08

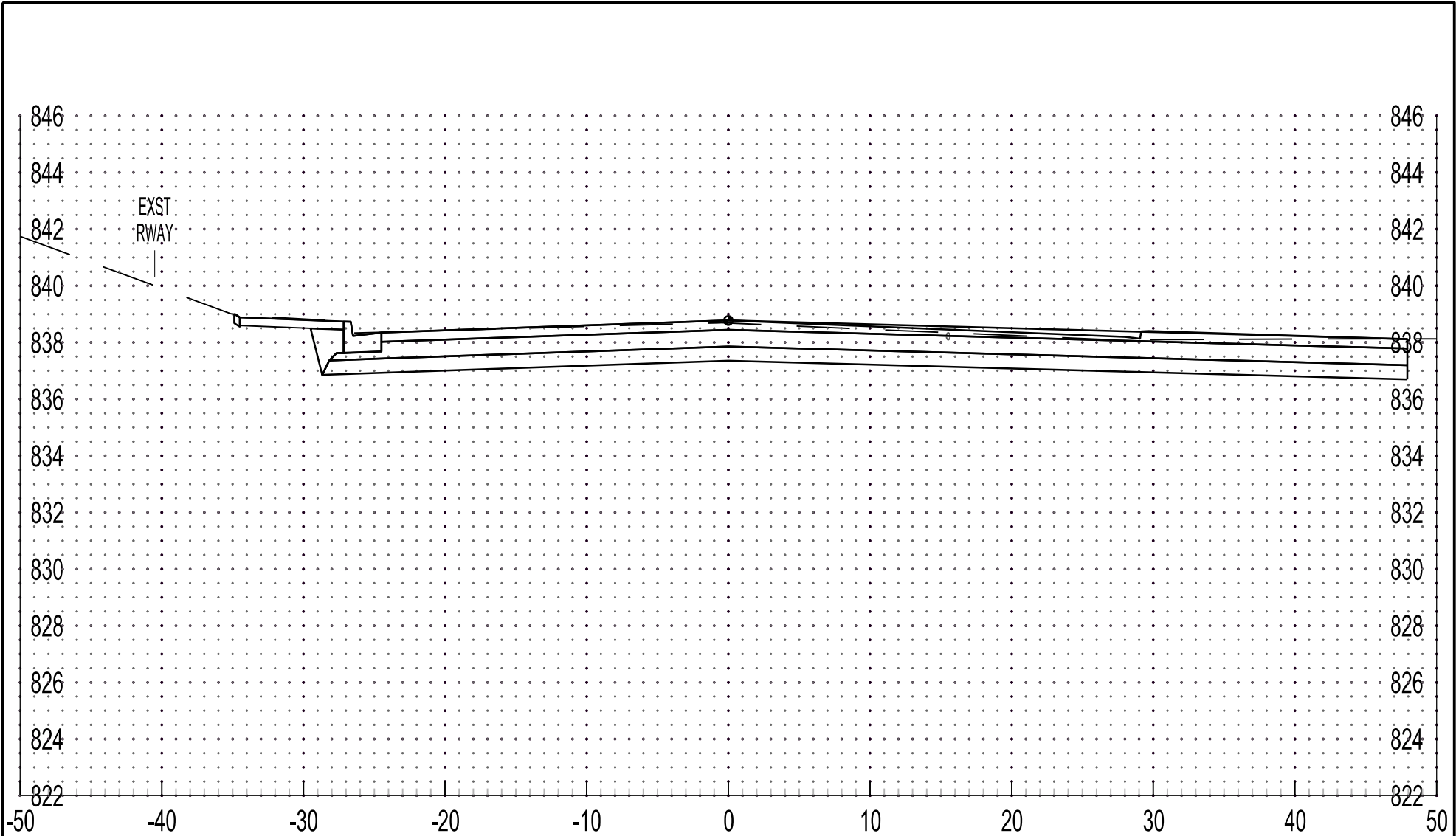


STA=12+93.34

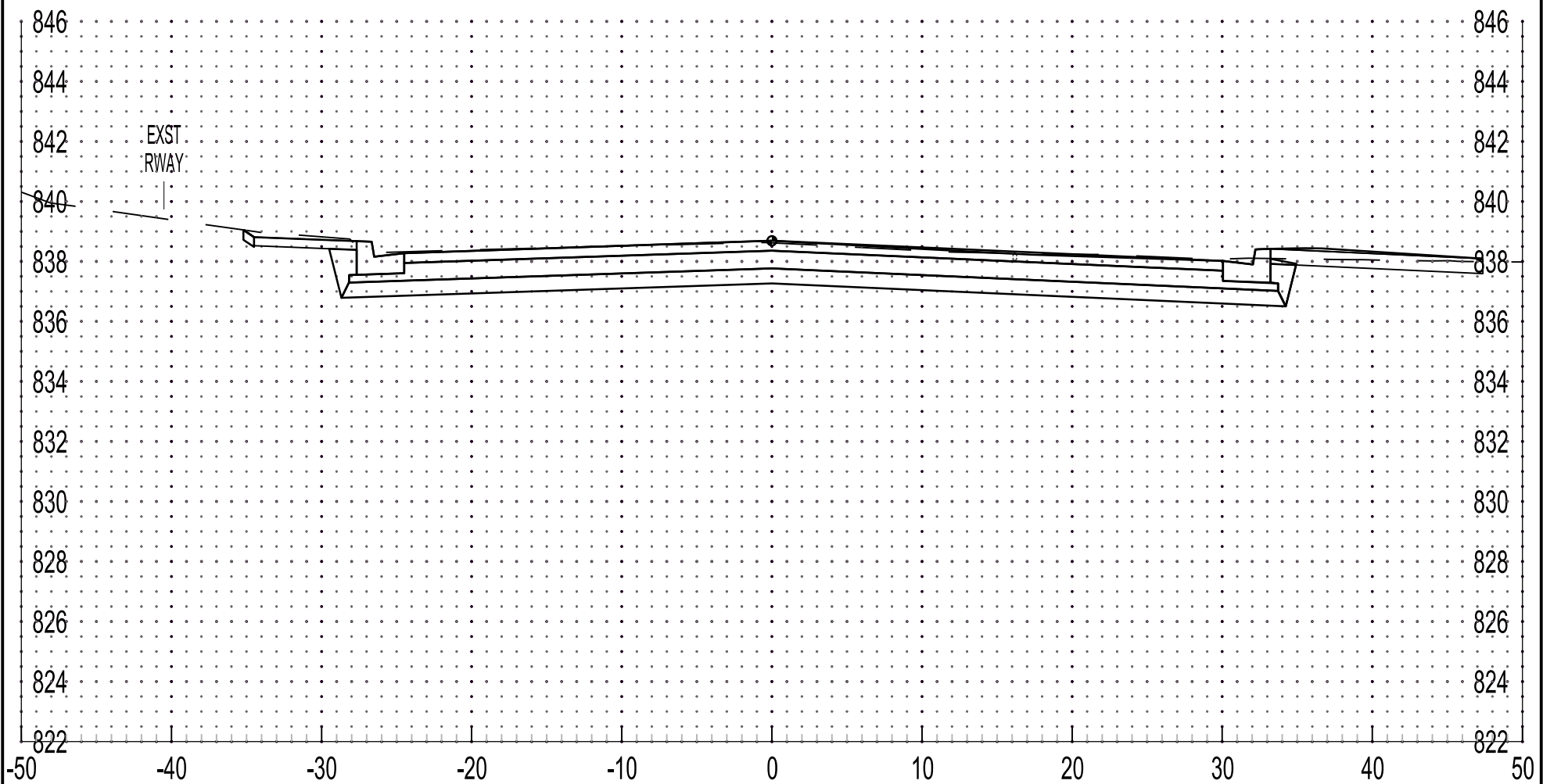
Change numbers
to 54 OF 96



Change numbers
to 55 OF 96

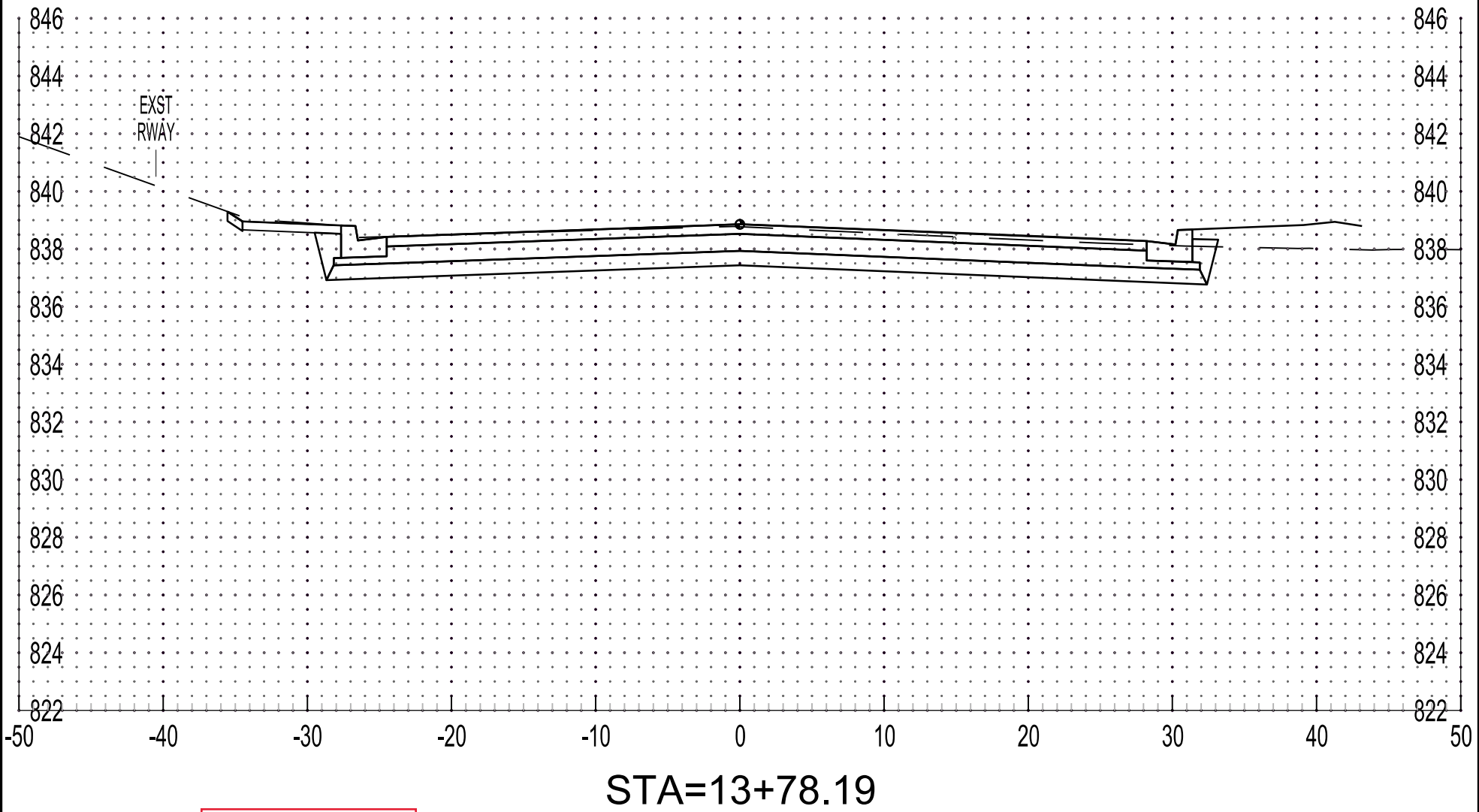
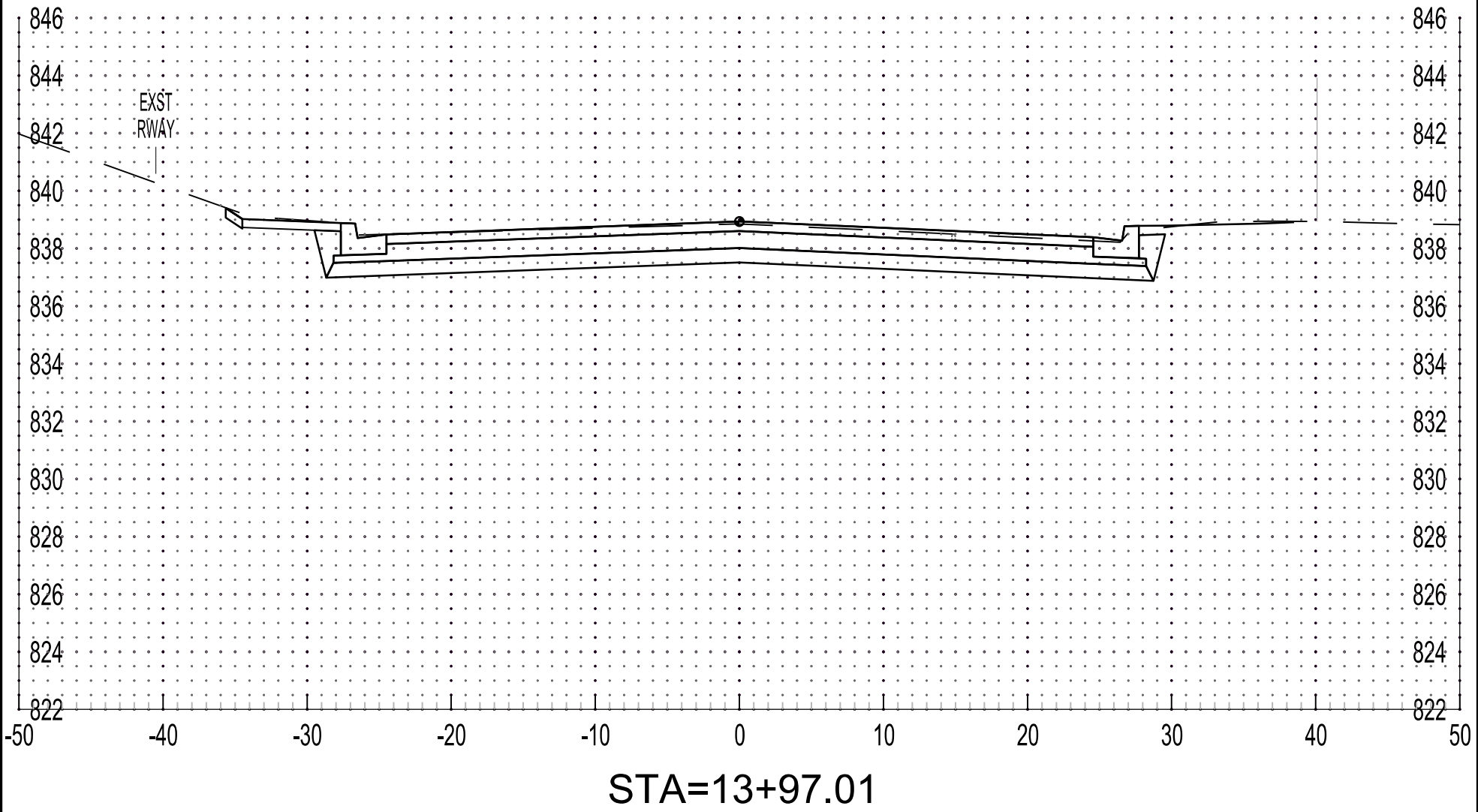


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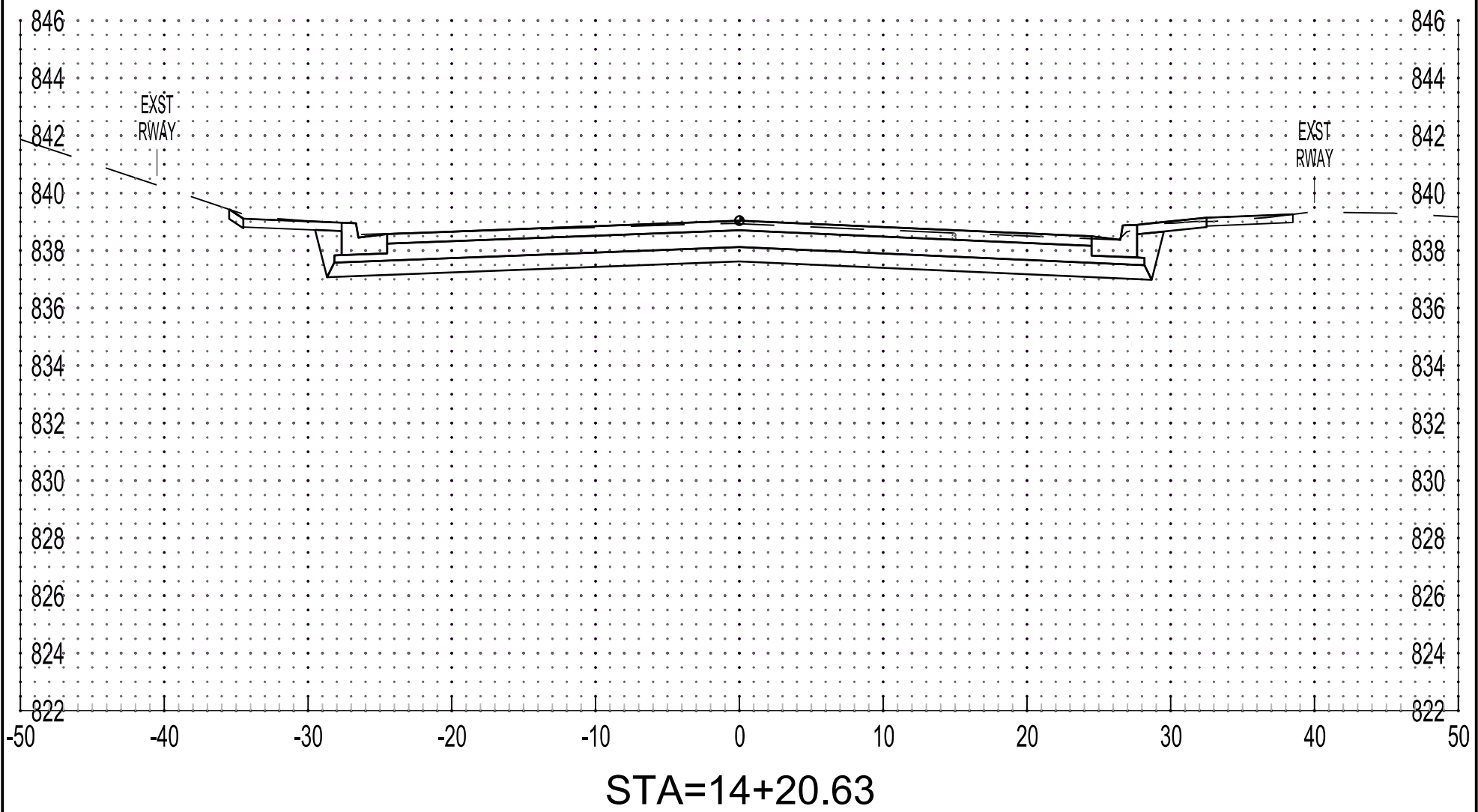
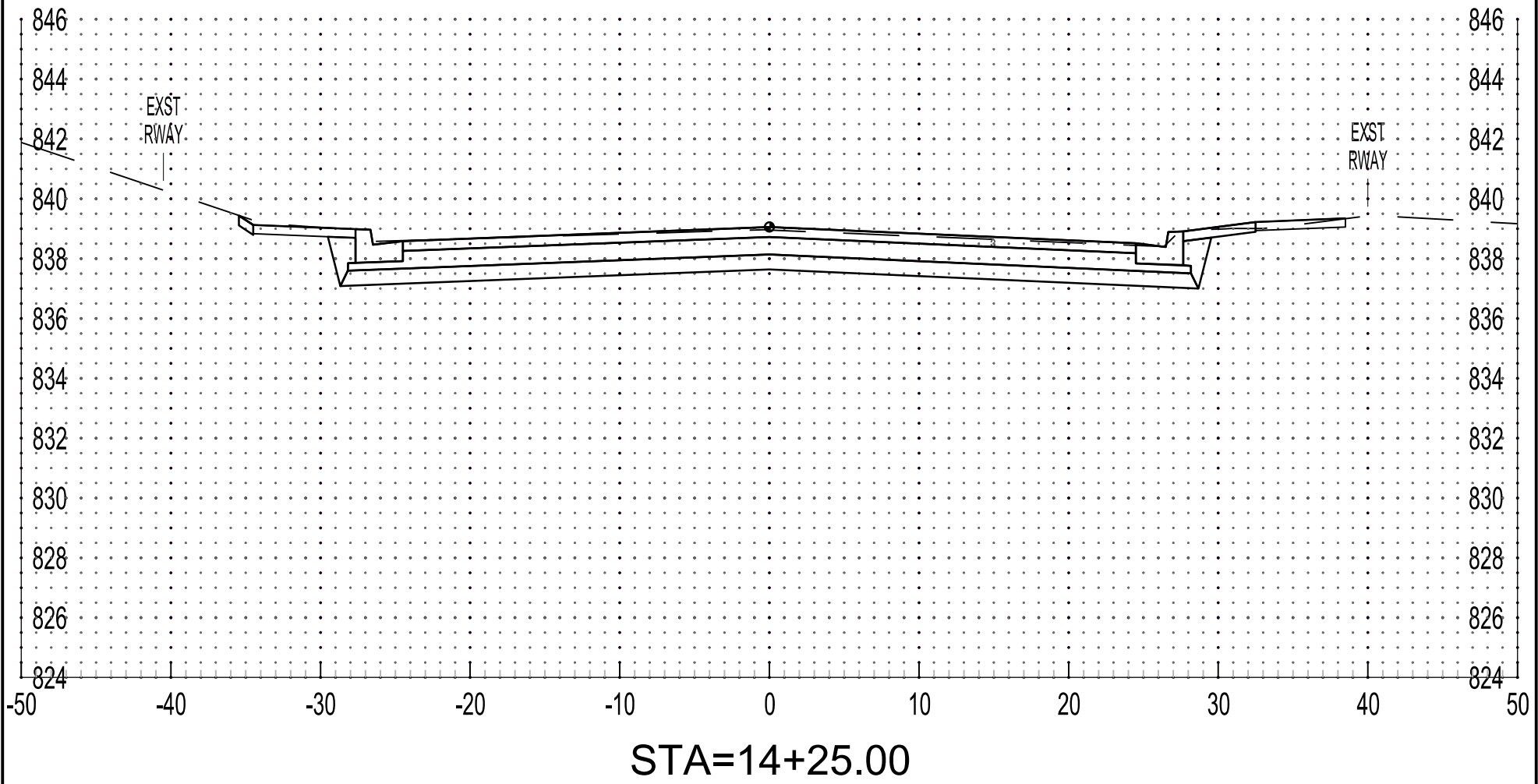


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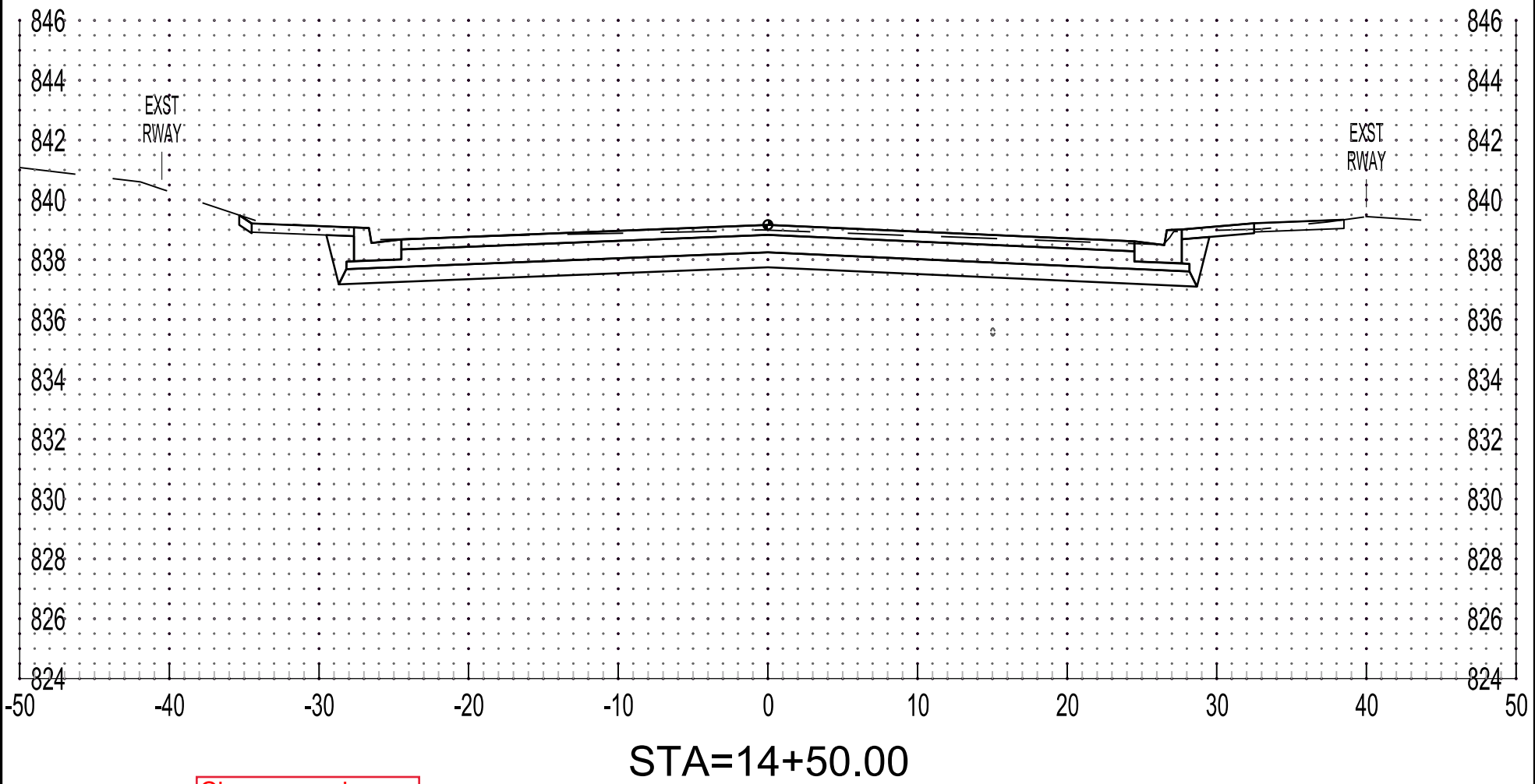
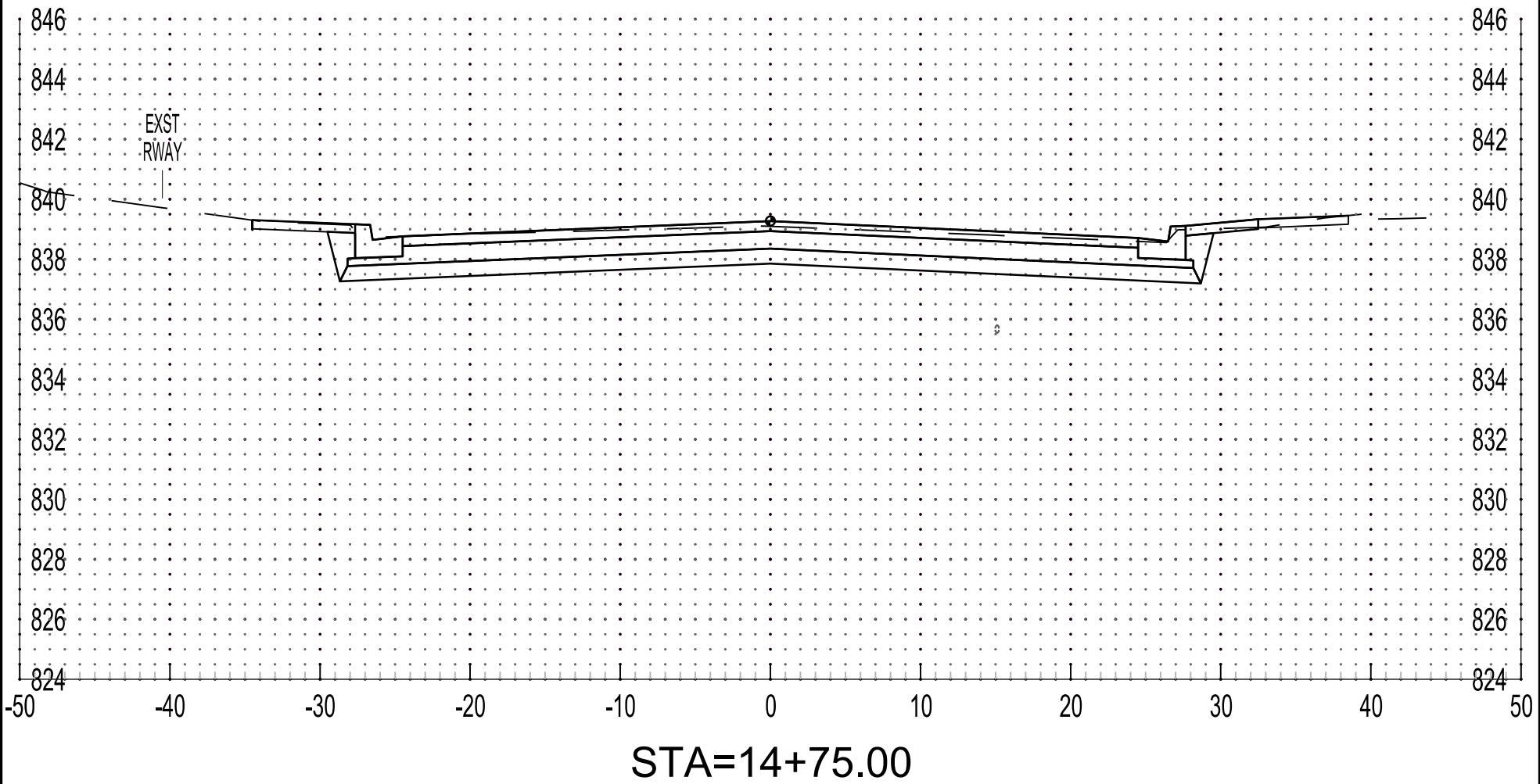
Change numbers
to 56 OF 96



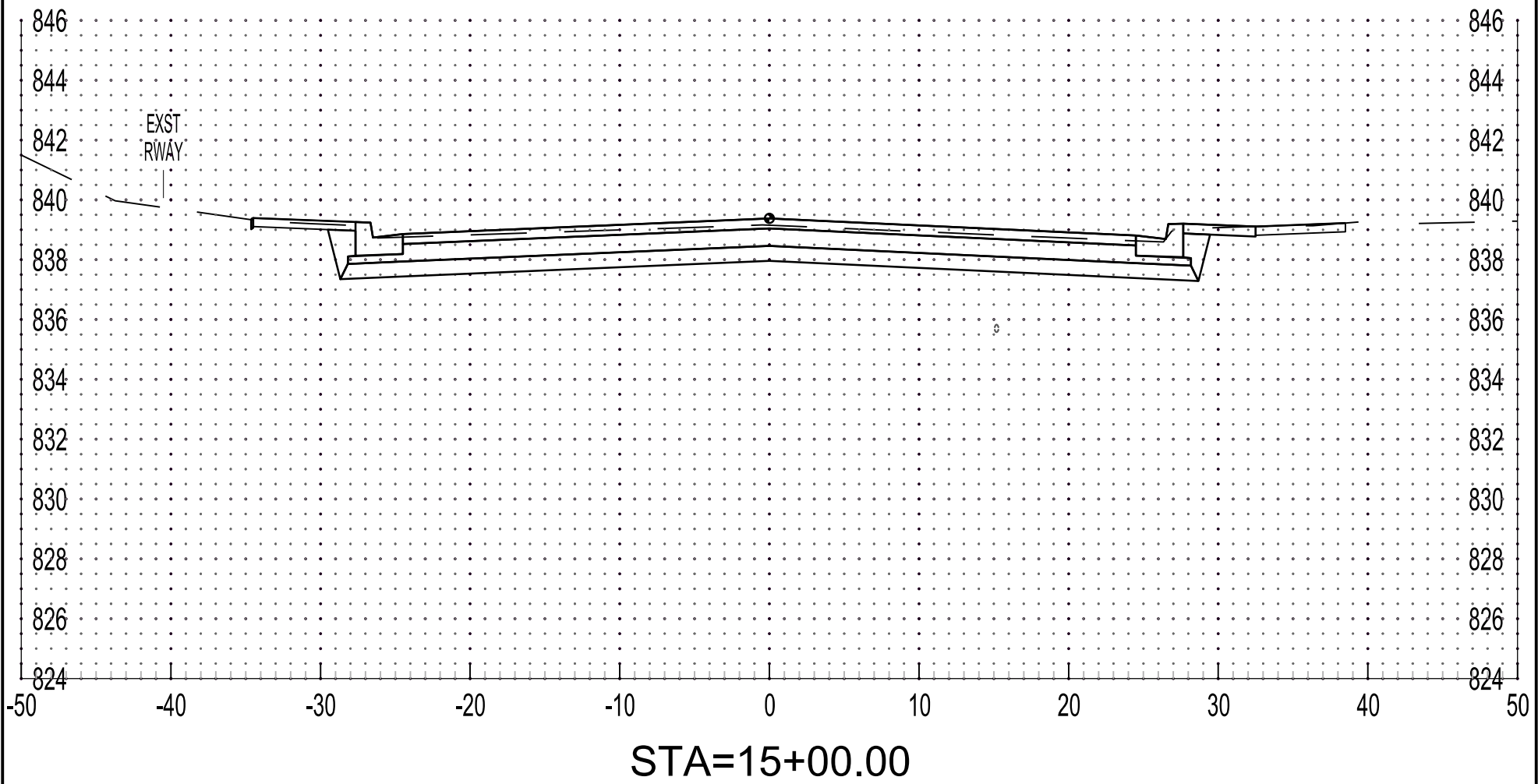
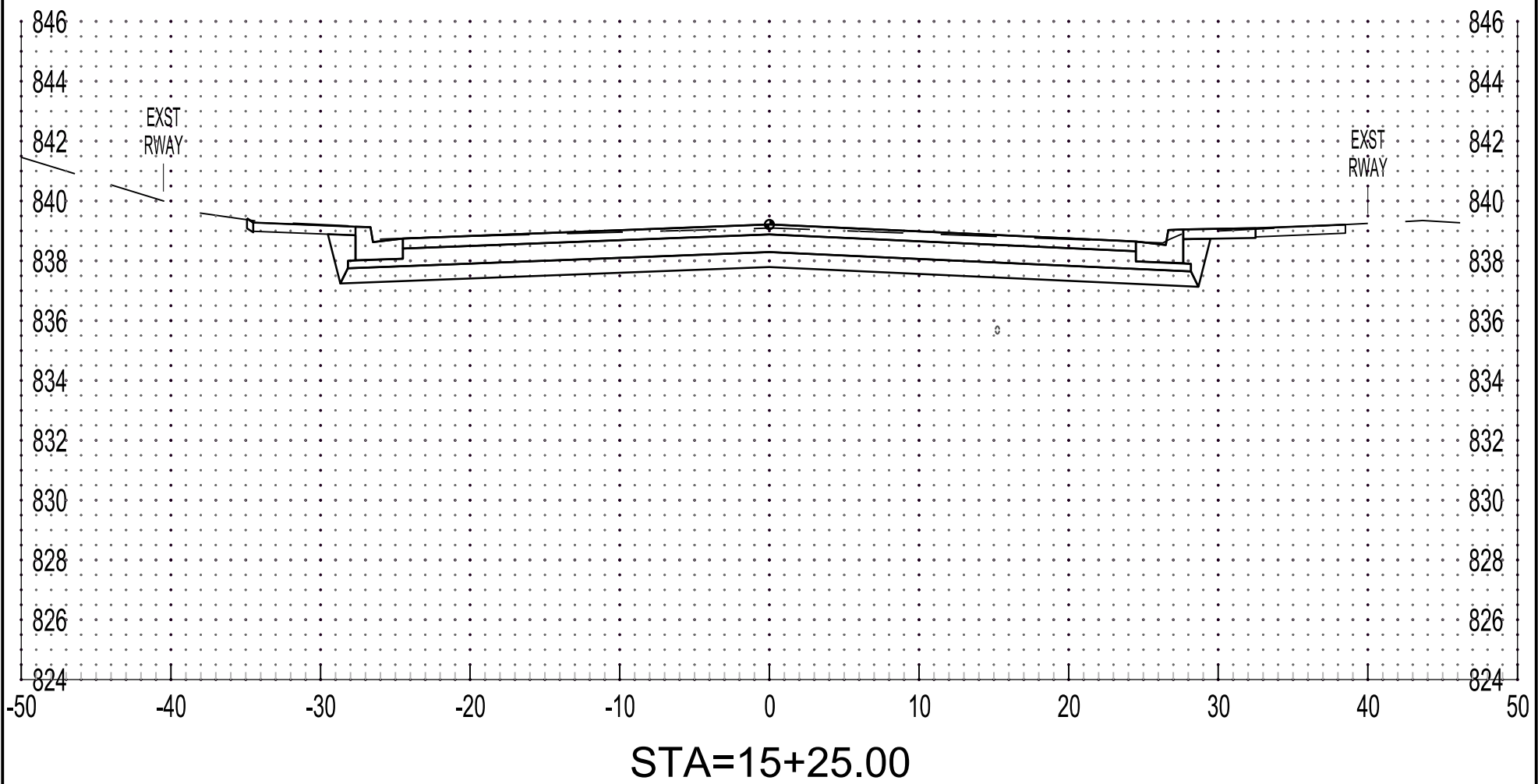
Change numbers
to 57 OF 96



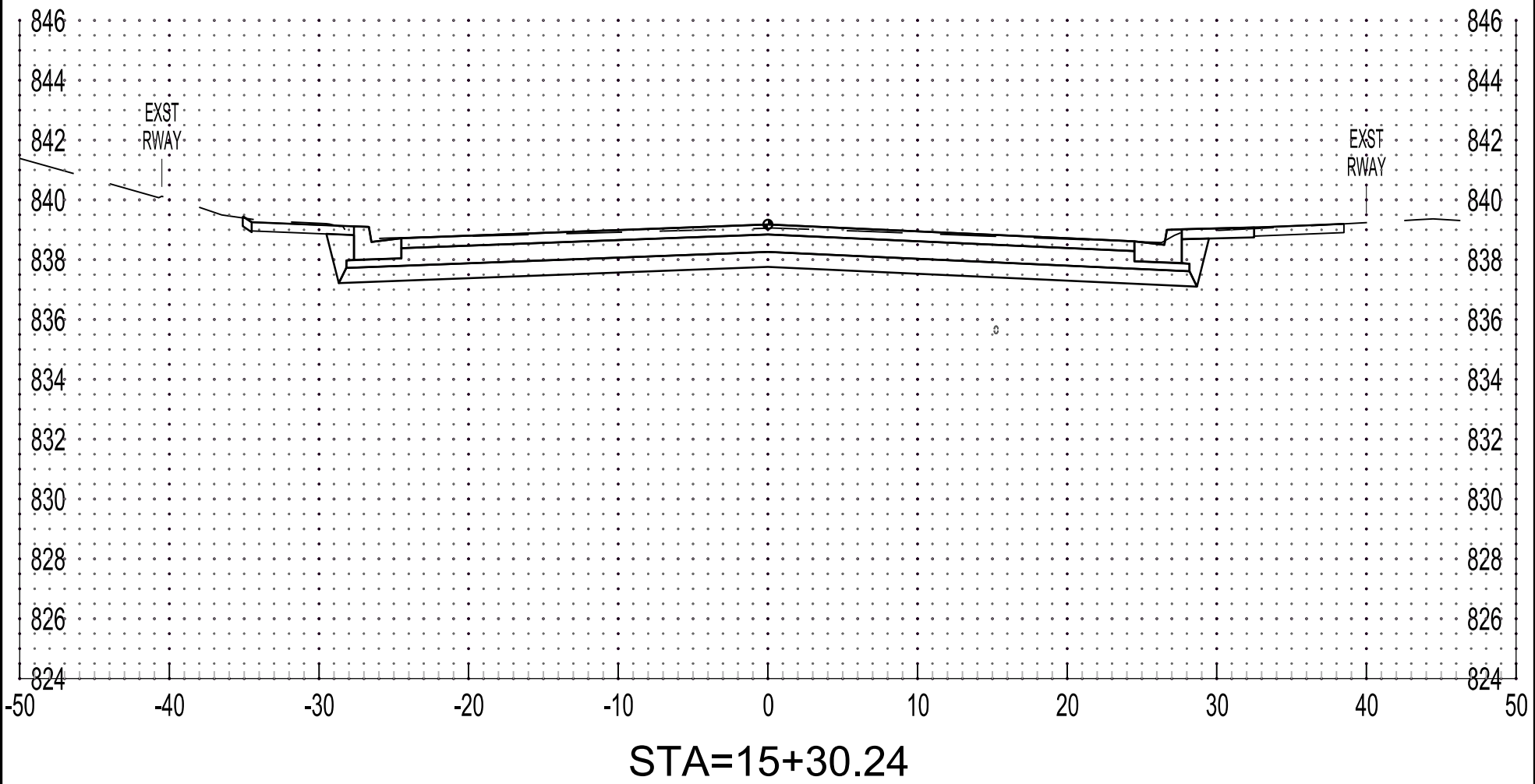
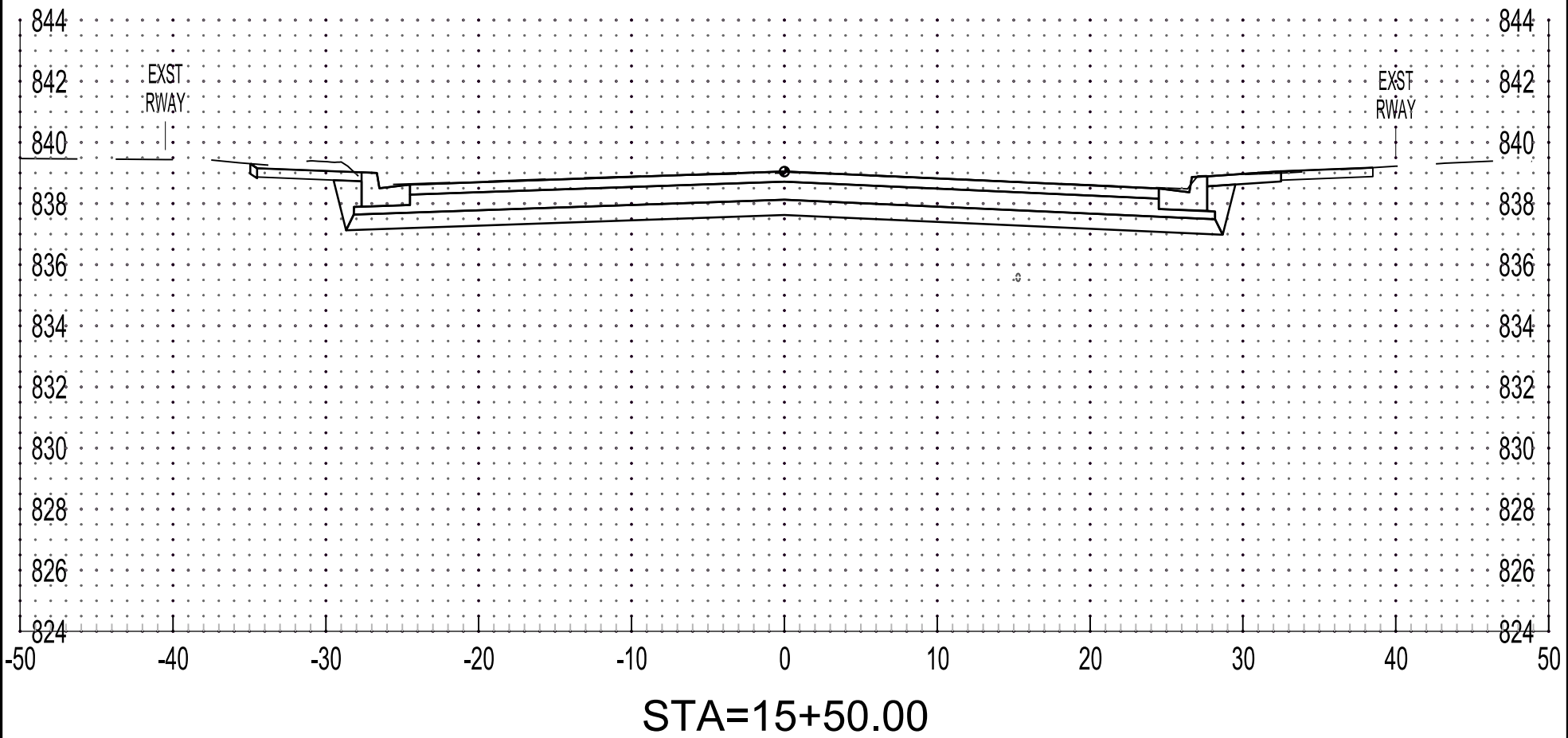
Change numbers
to 58 OF 96



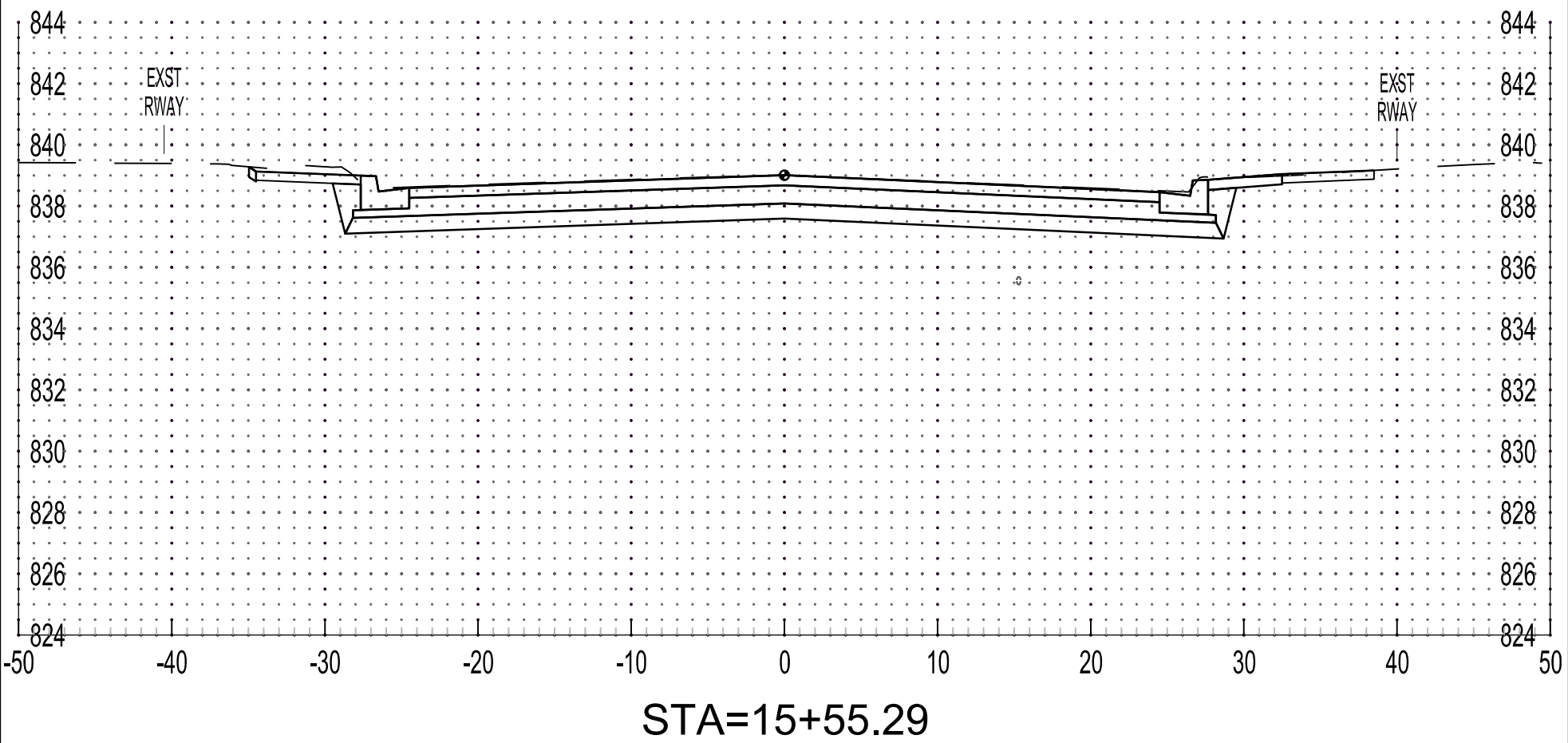
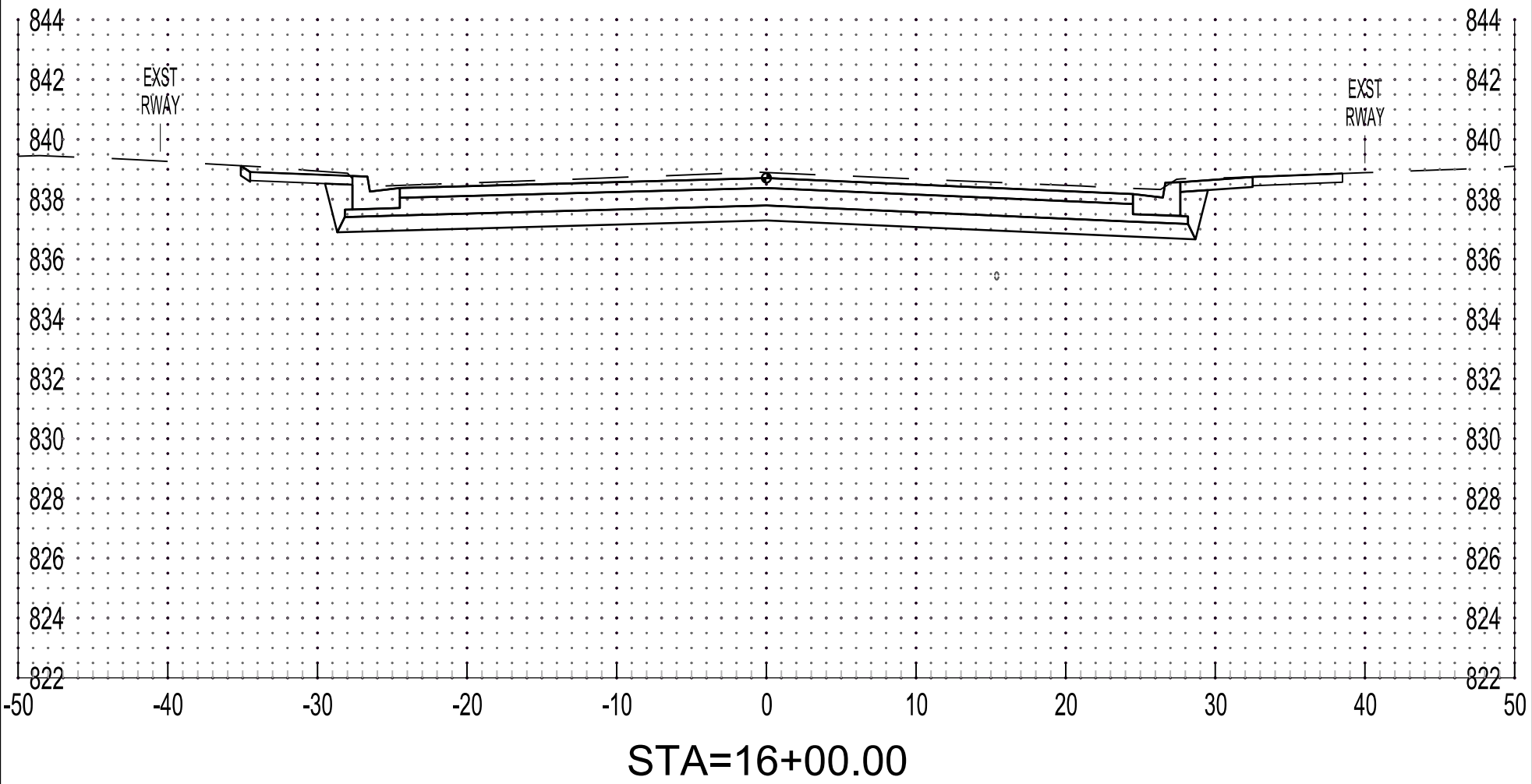
Change numbers
to 59 OF 96



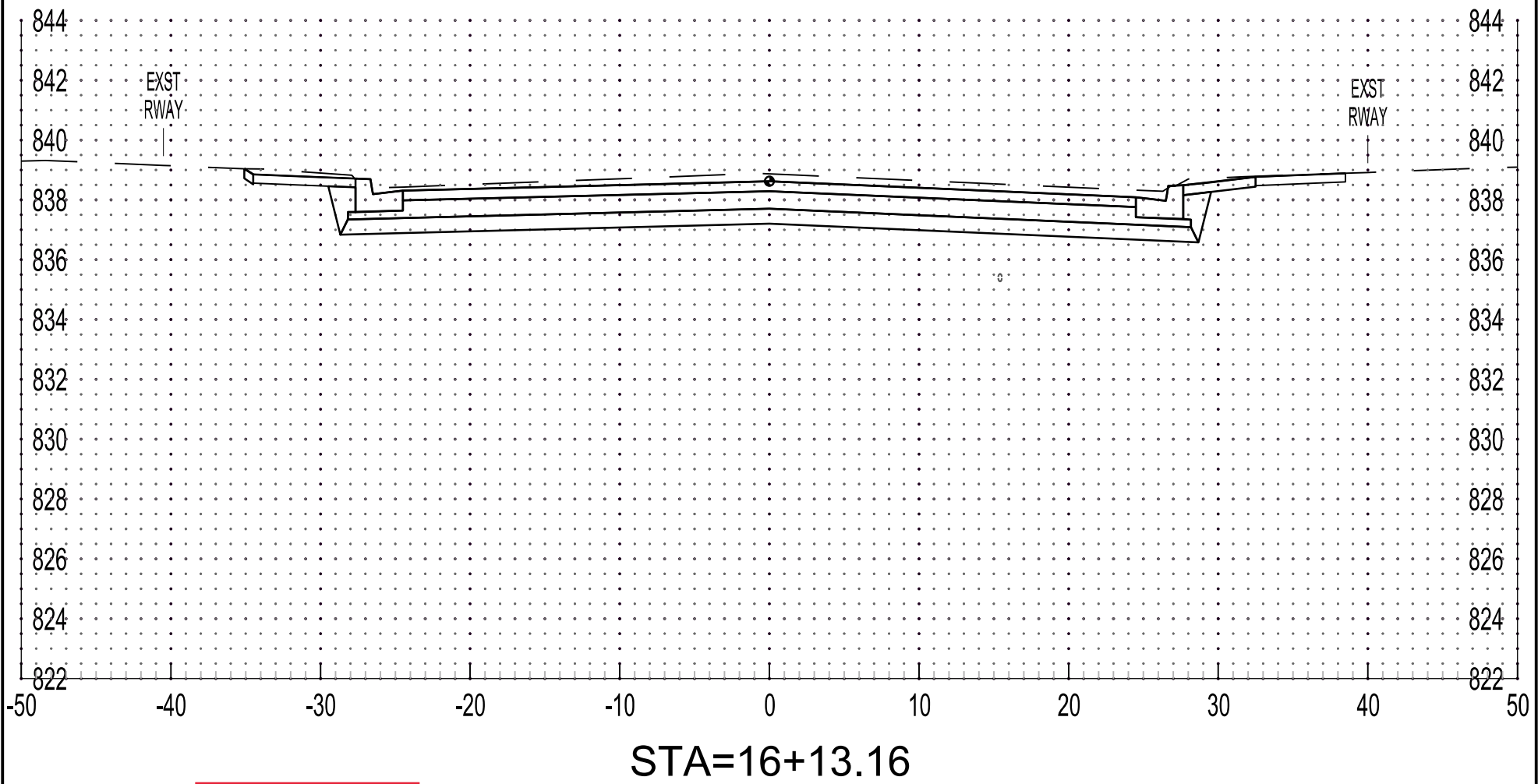
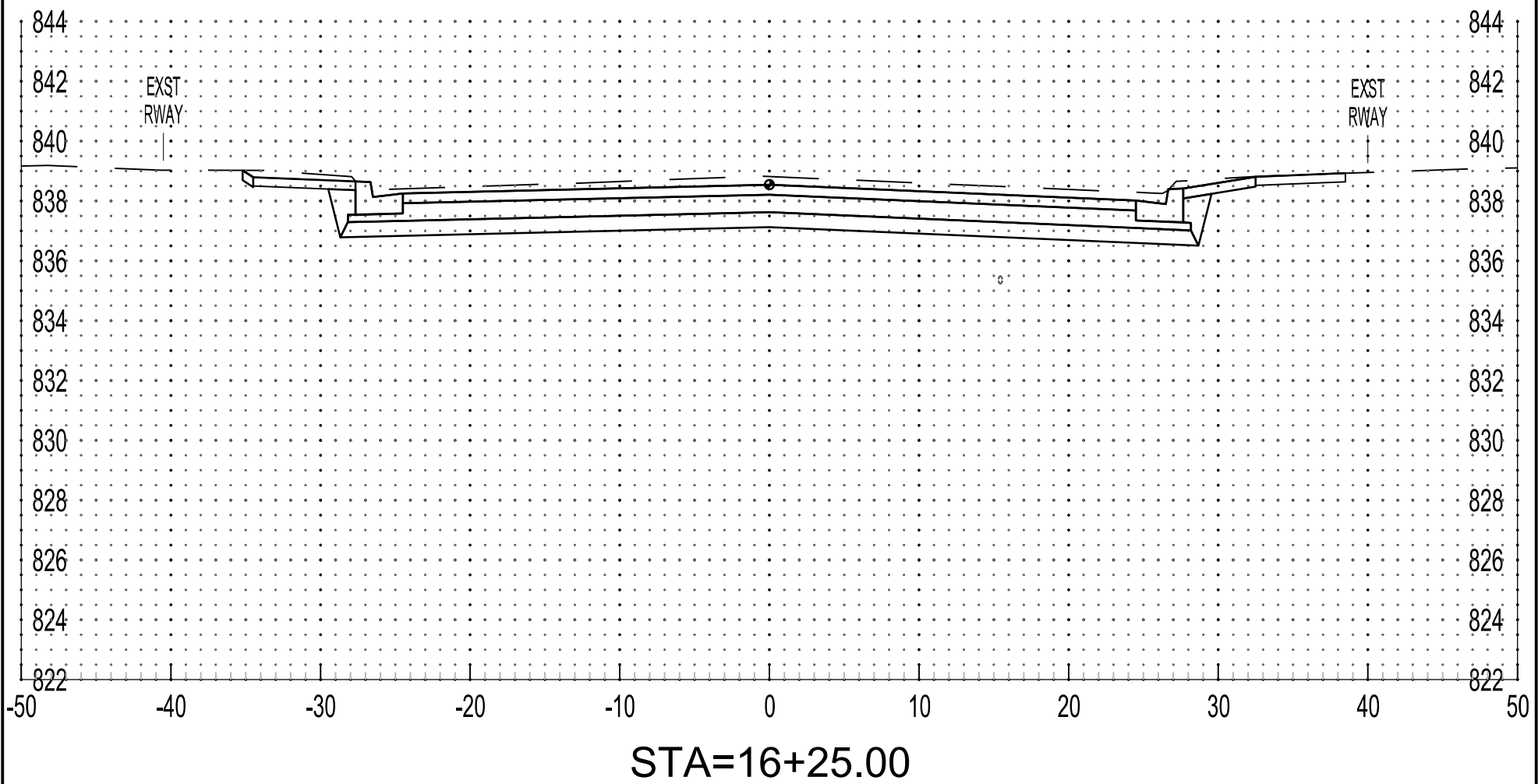
Change numbers
to 60 OF 96



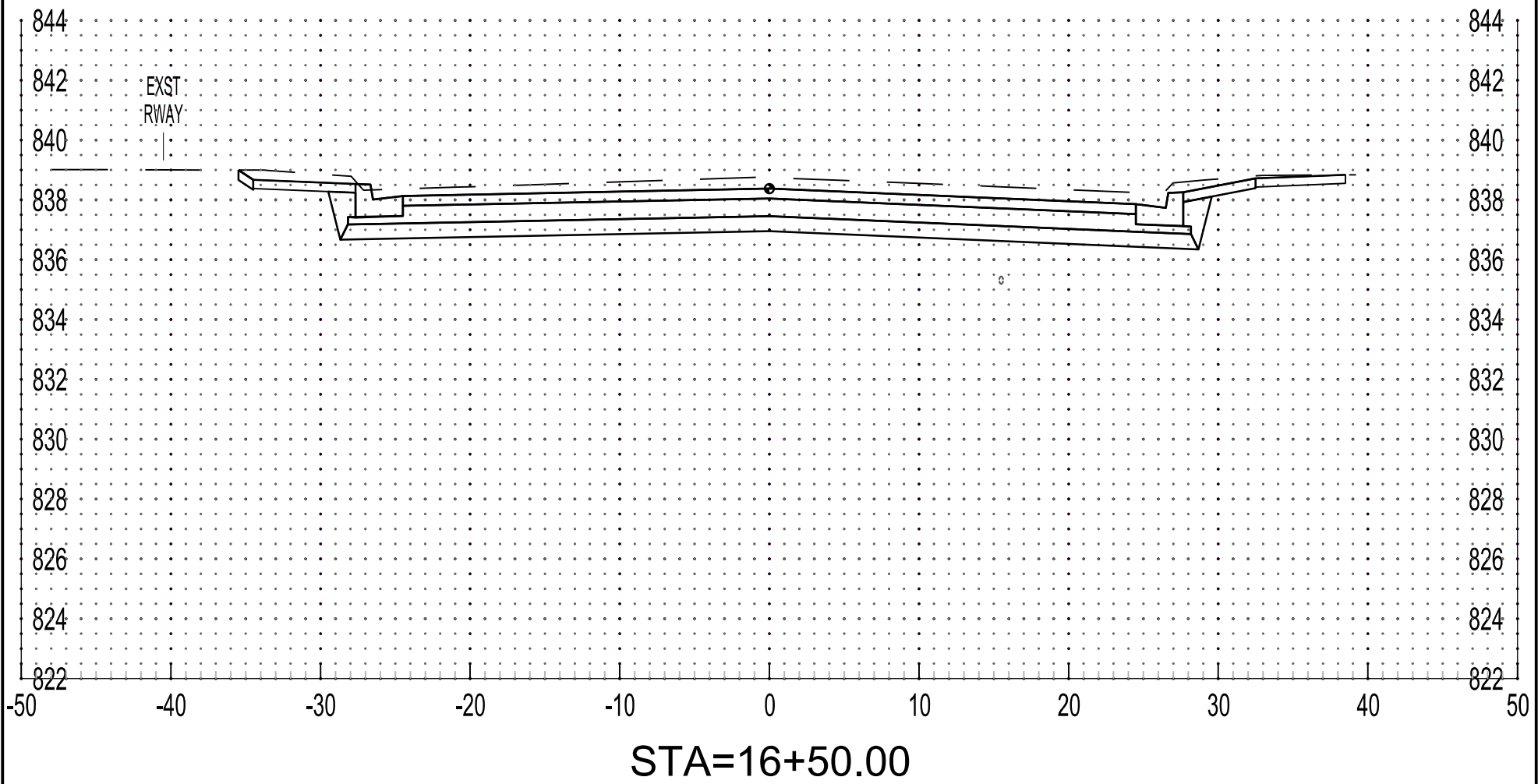
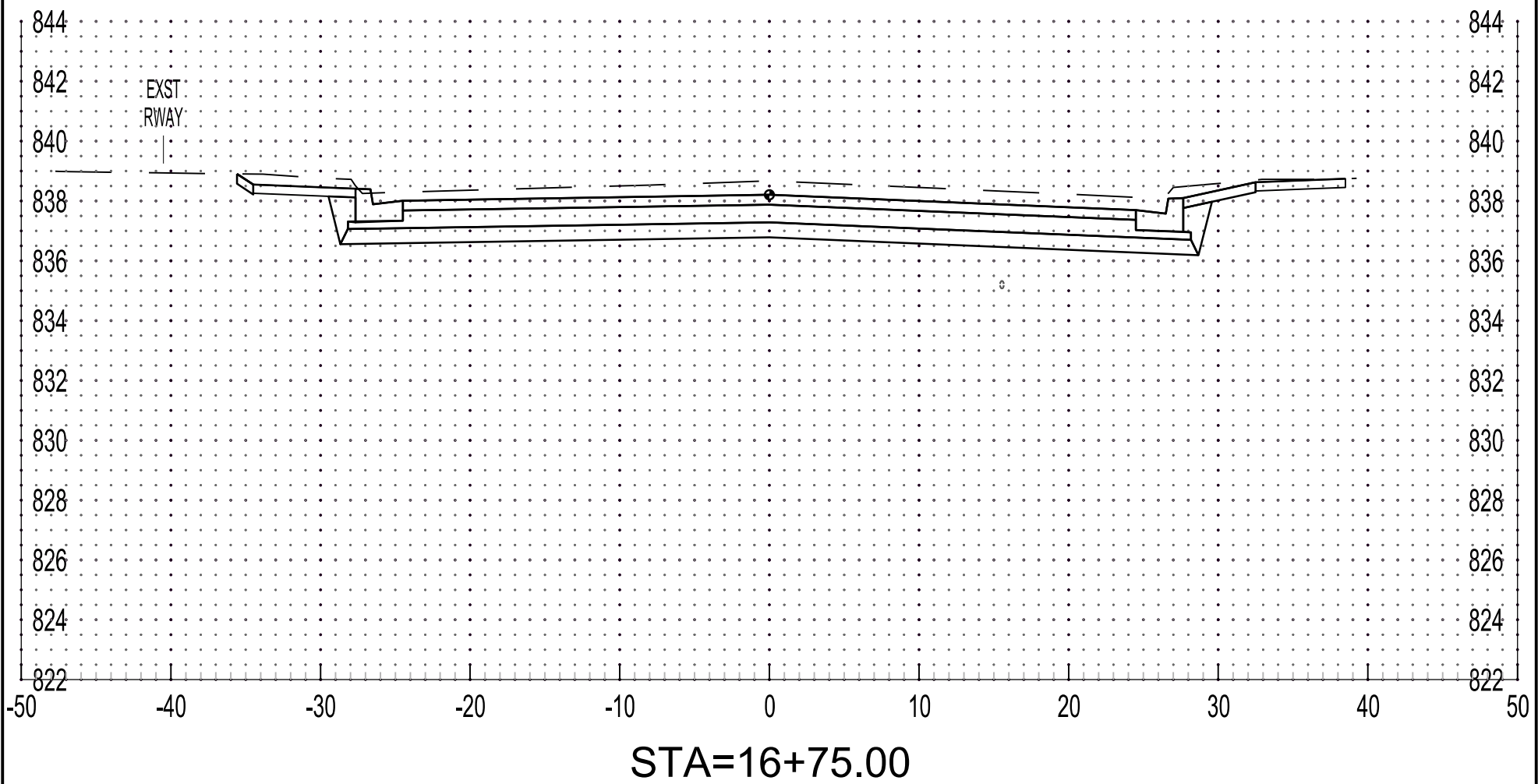
Change numbers
to 61 OF 96



Change numbers
to 62 OF 96



Change numbers
to 63 OF 96

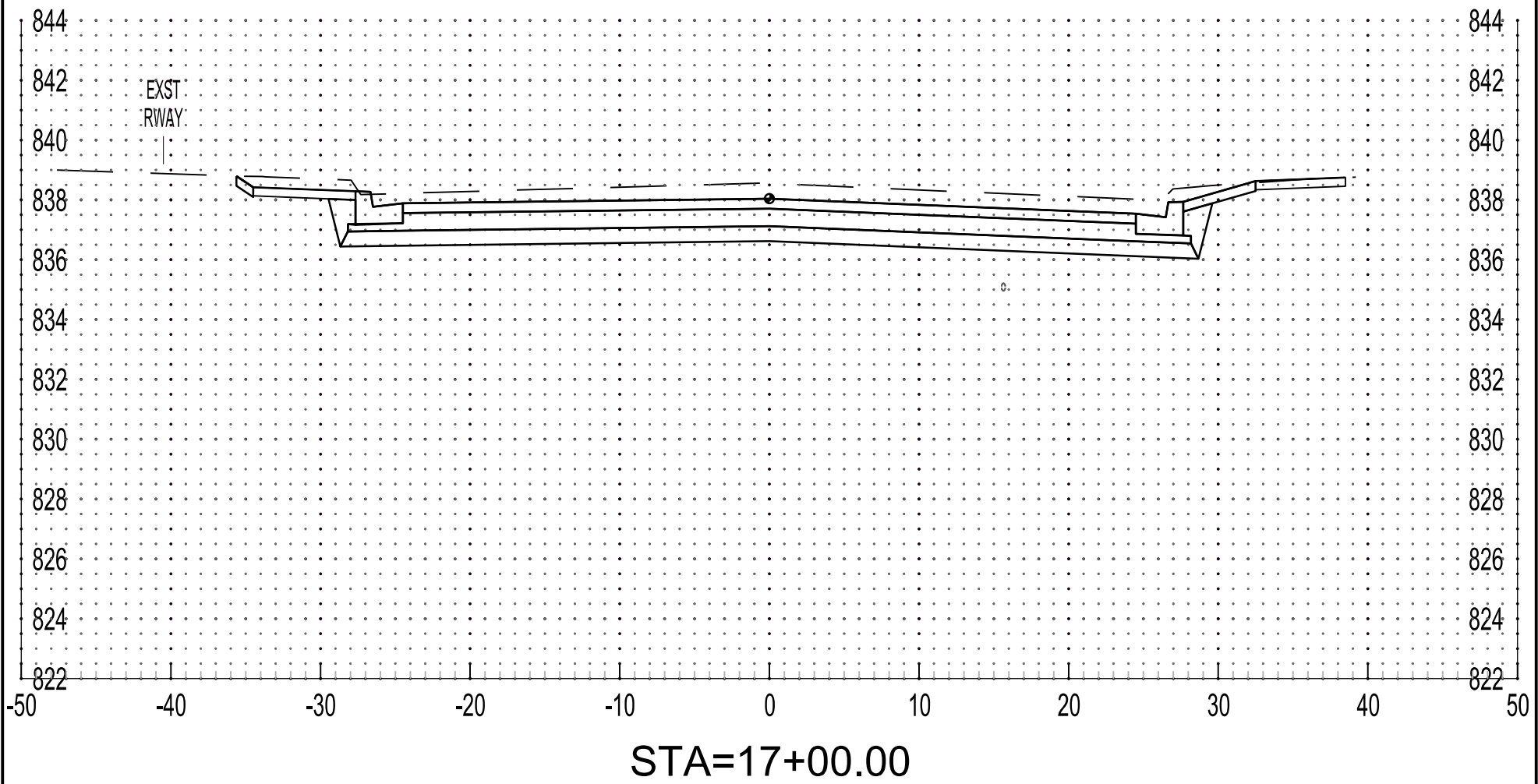
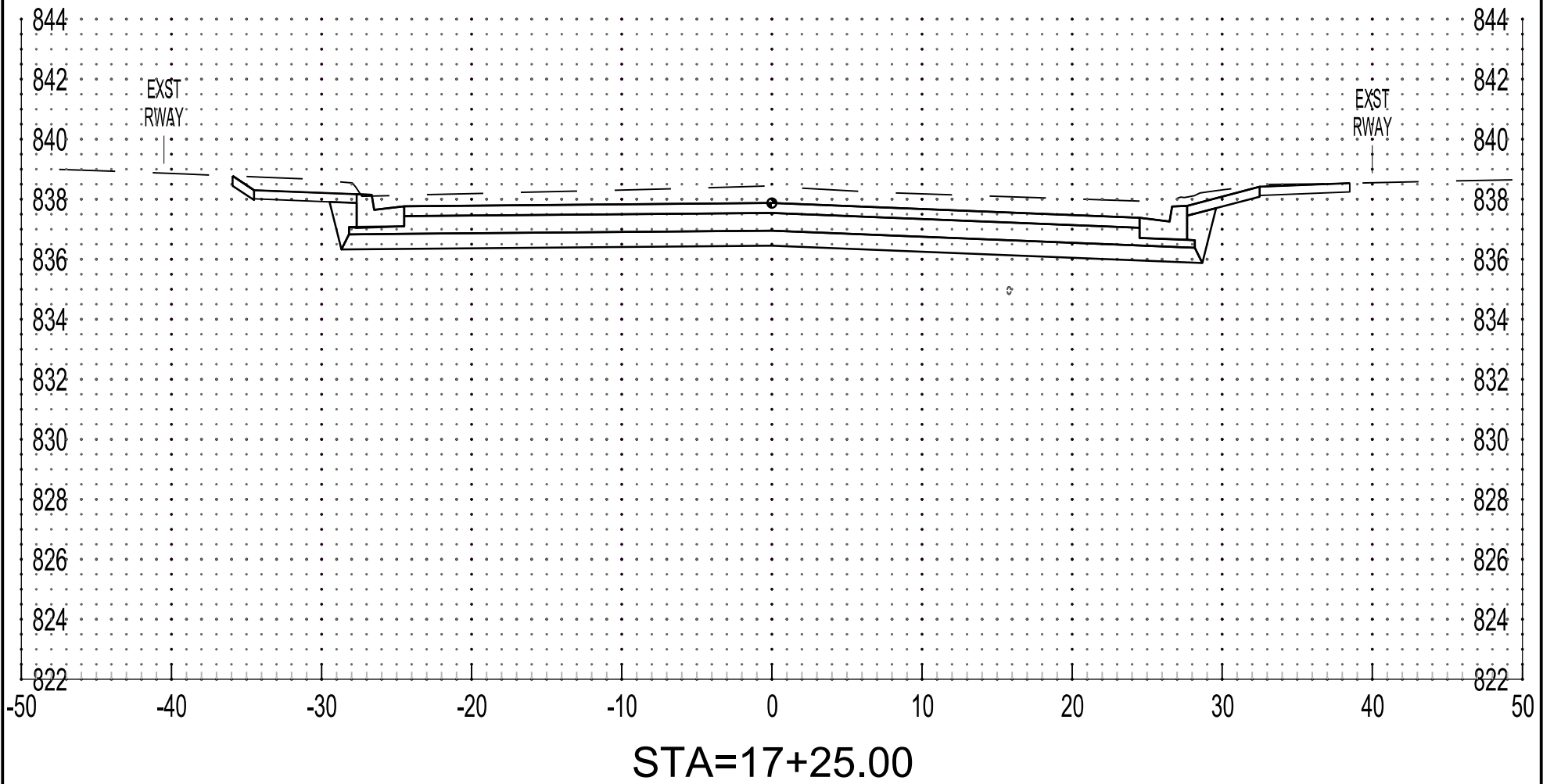


Change numbers
to 64 OF 96

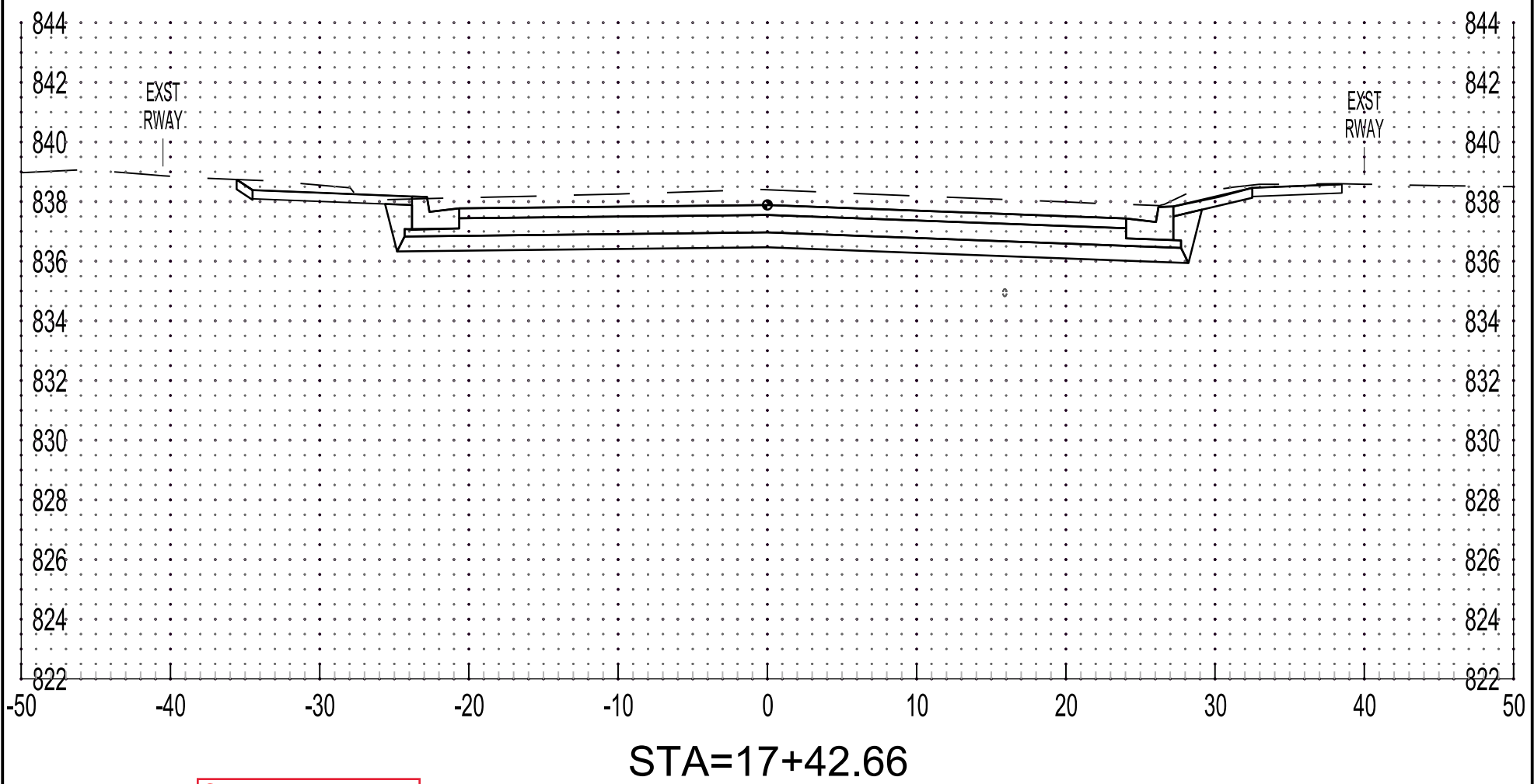
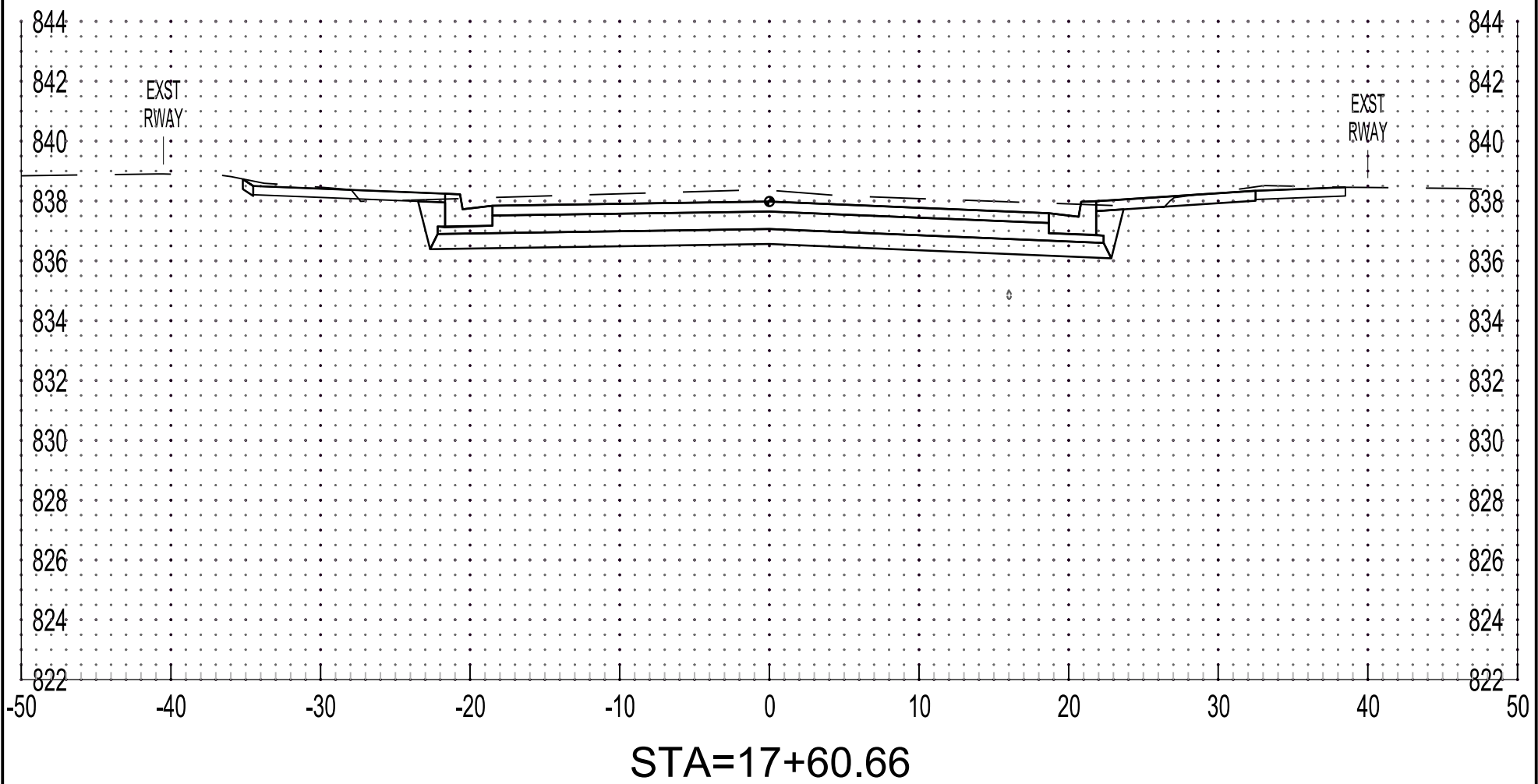
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| | | | | | | | | | | | L.P. 600D 6754 | S.A.P. 141-191-009 |
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MINNEAPOLIS
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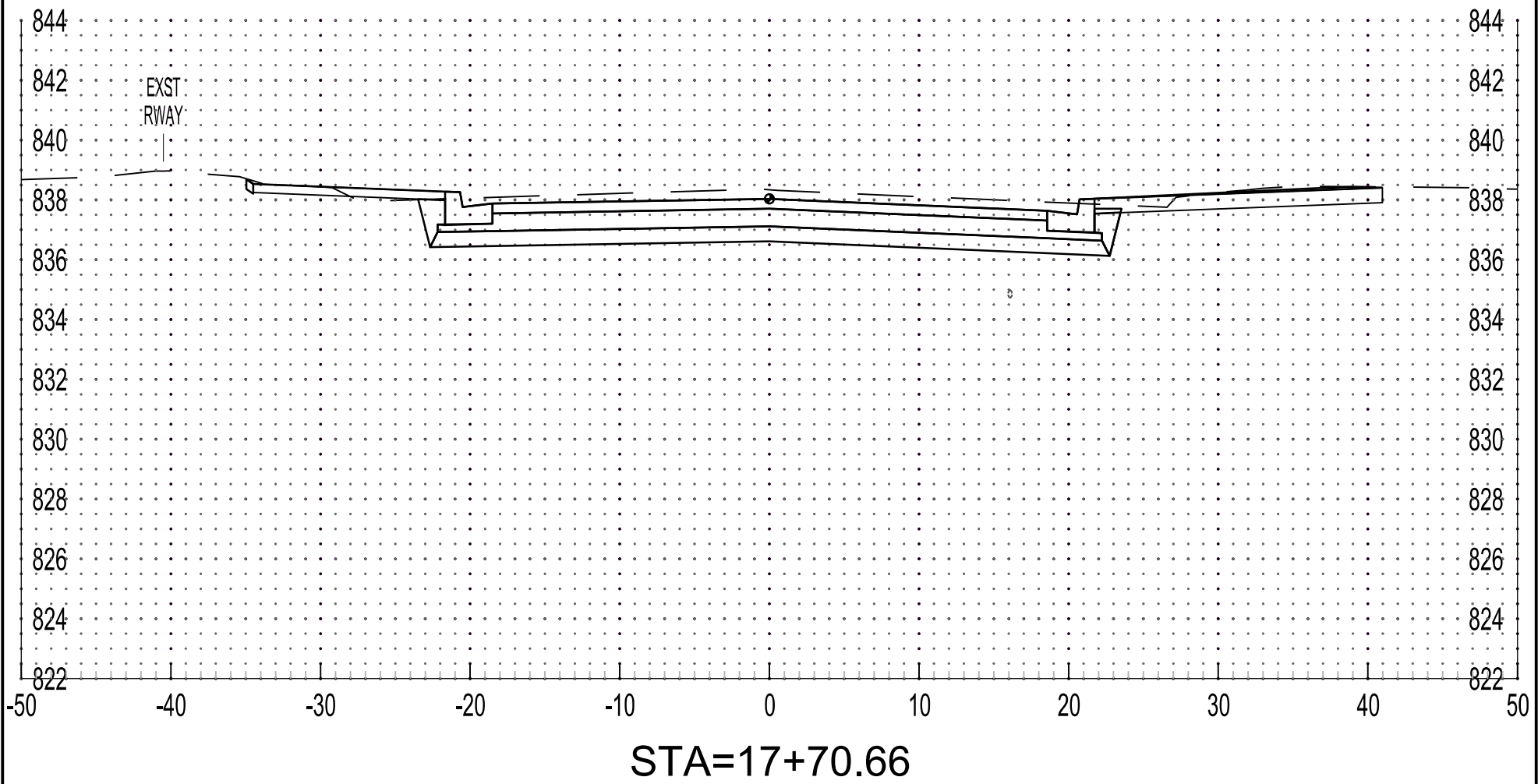
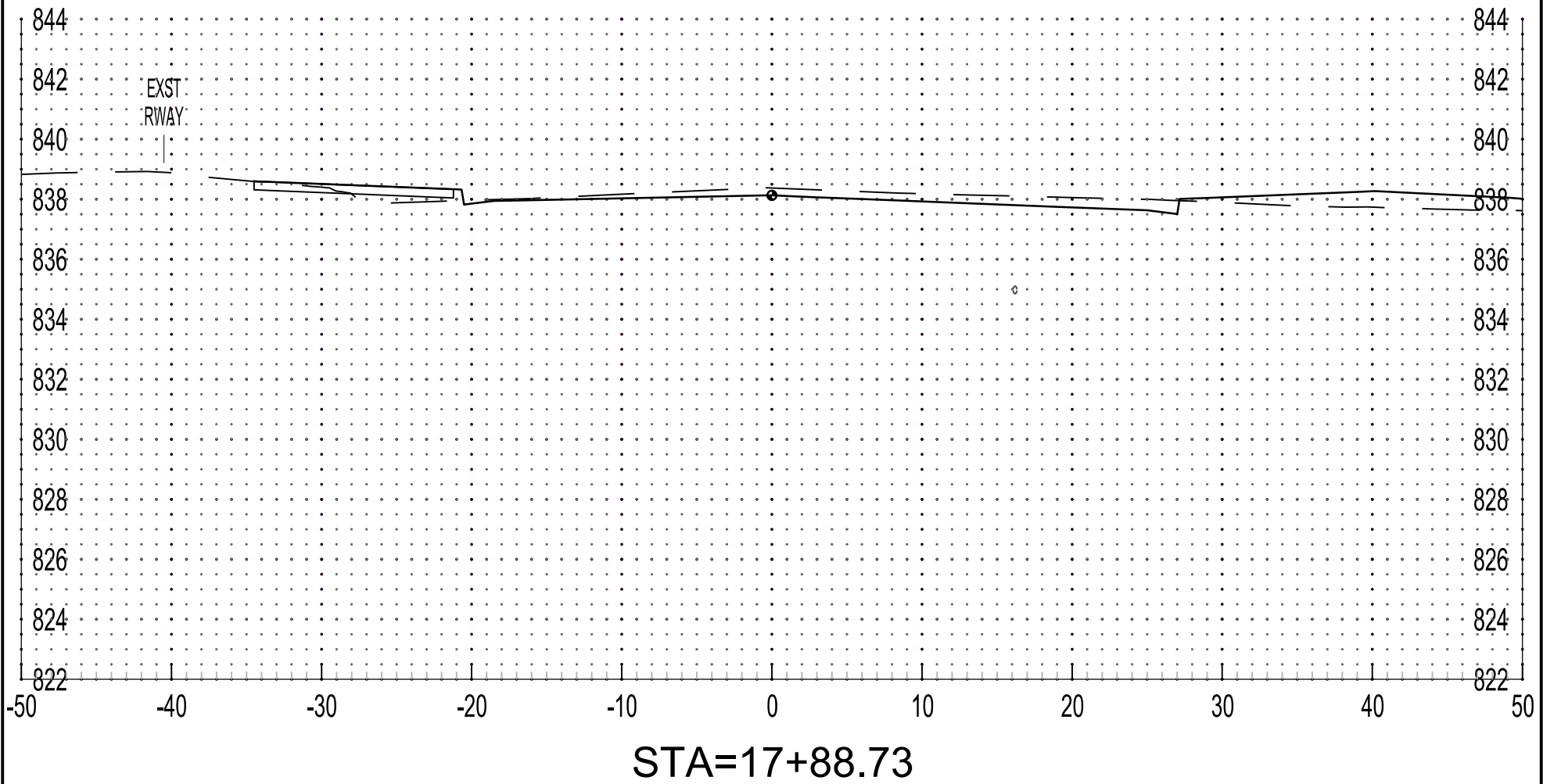
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CHK: HRV DATE:
APP: BJW DATE:



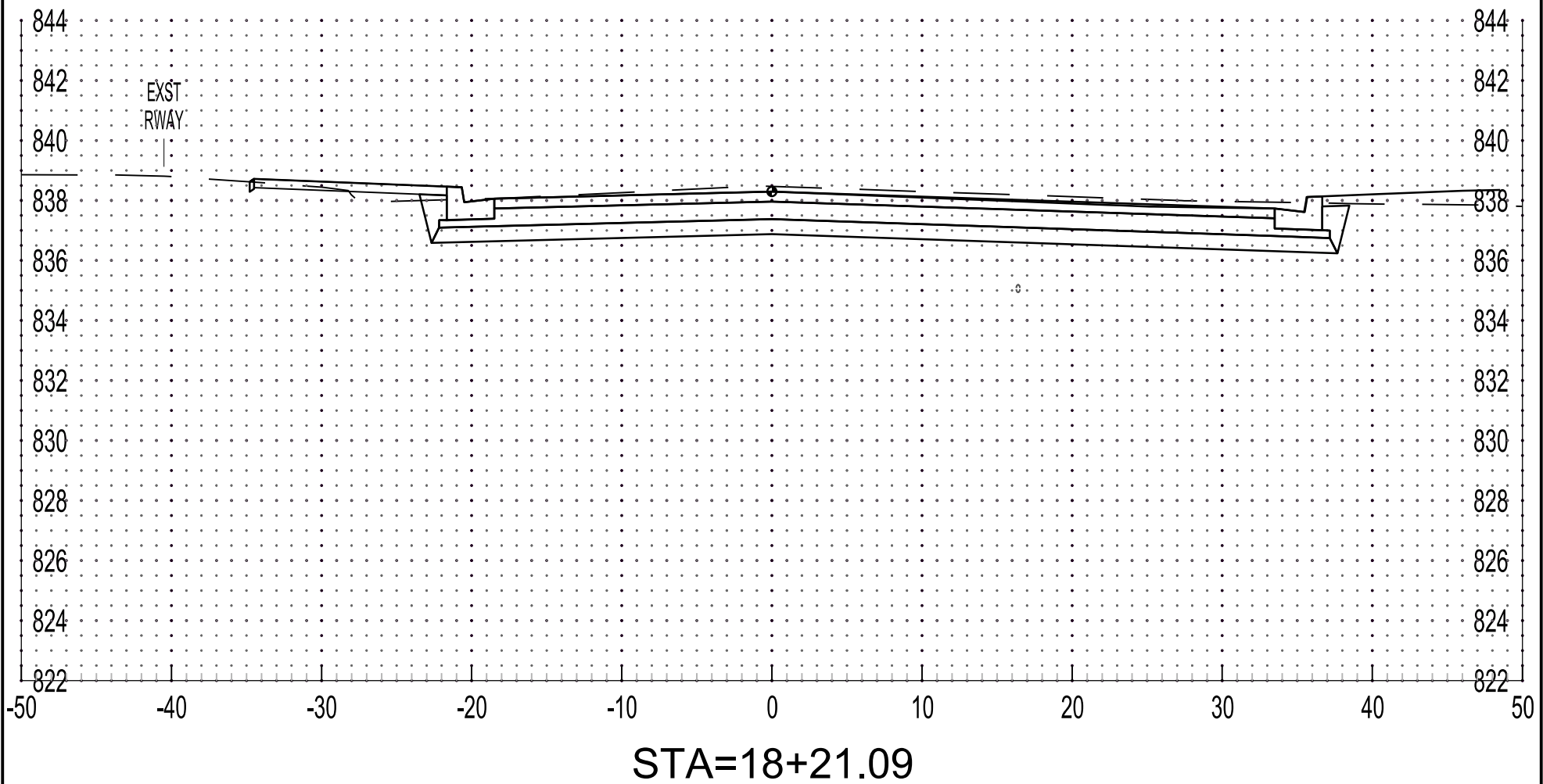
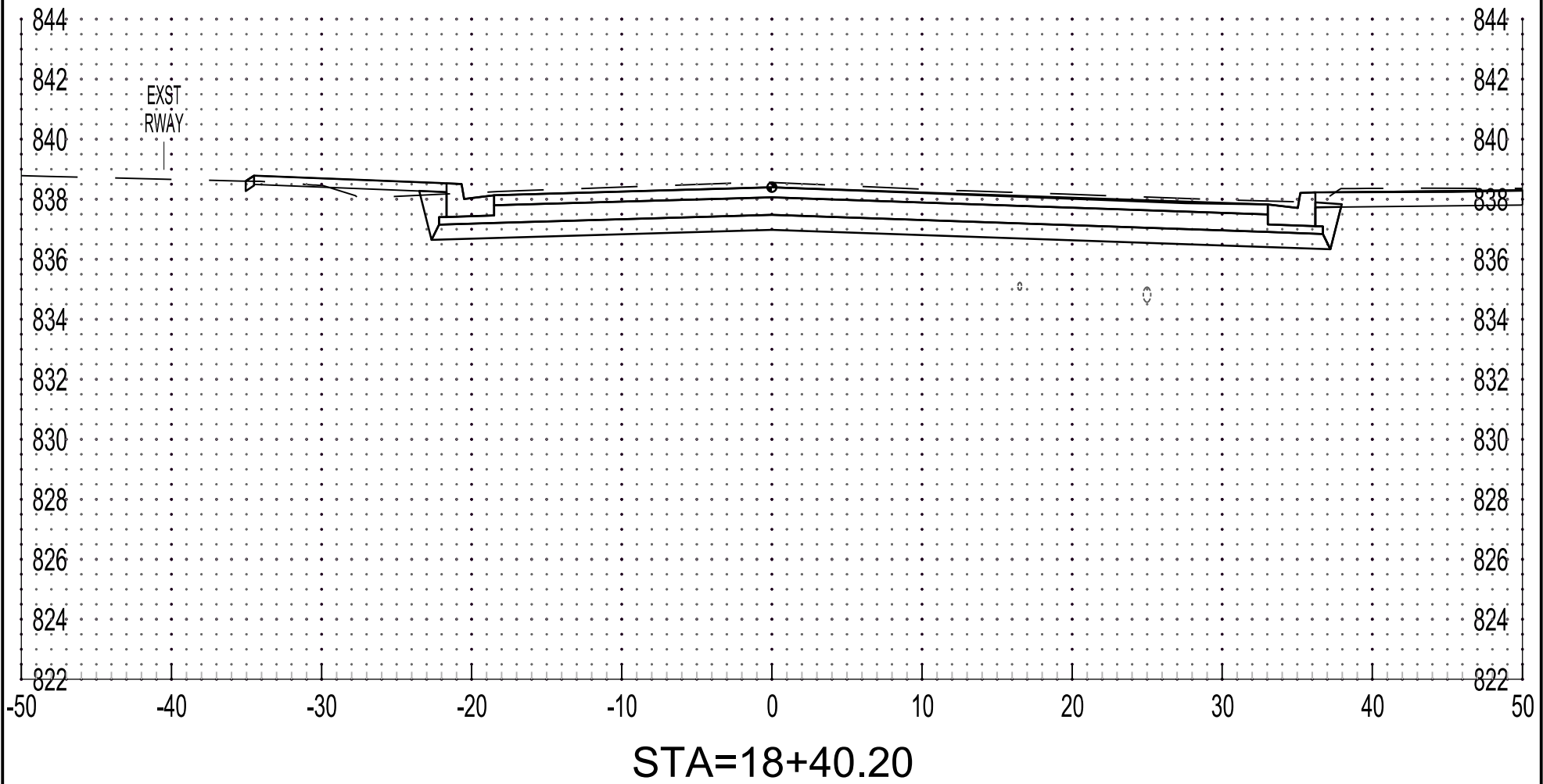
Change numbers
to 65 OF 96



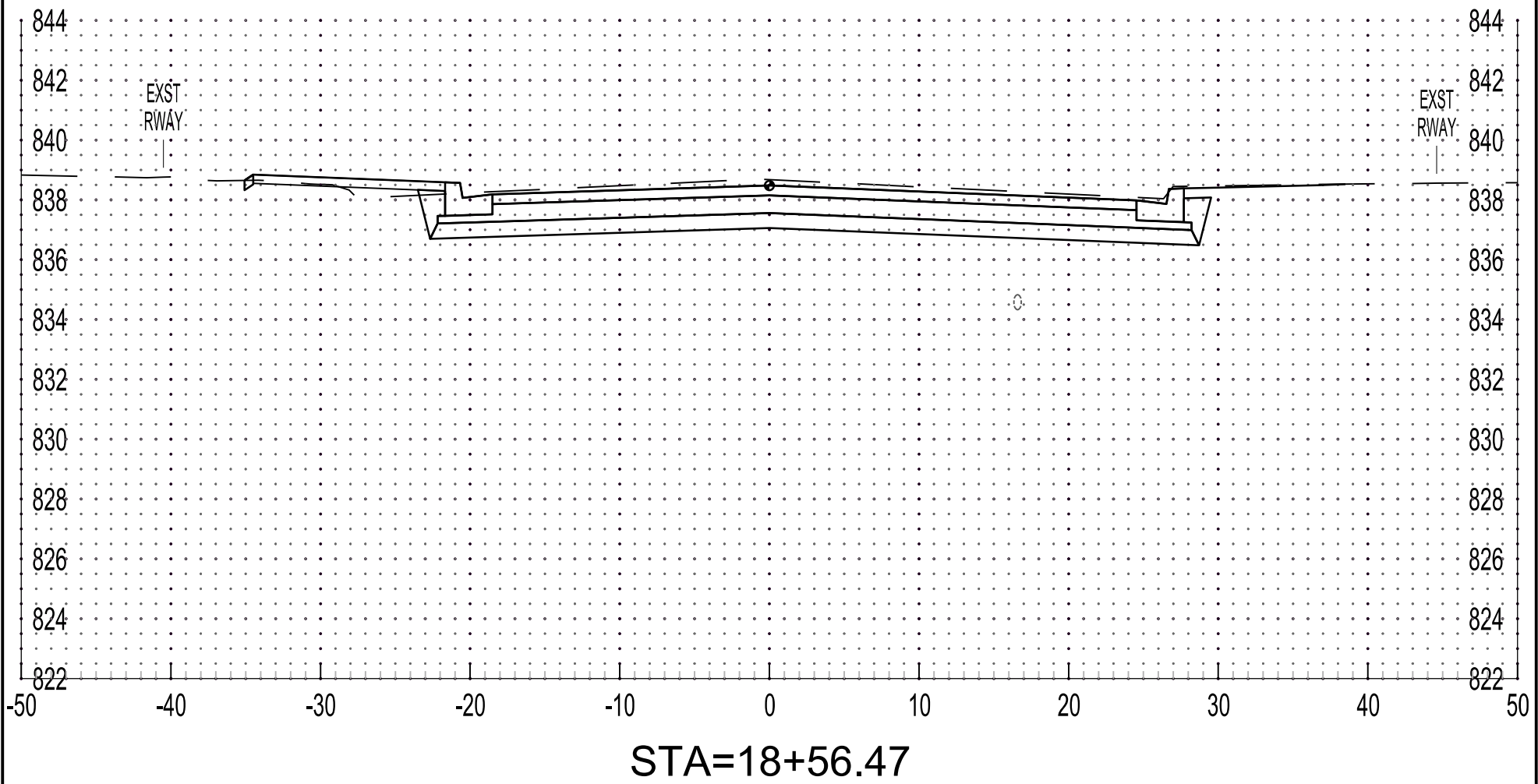
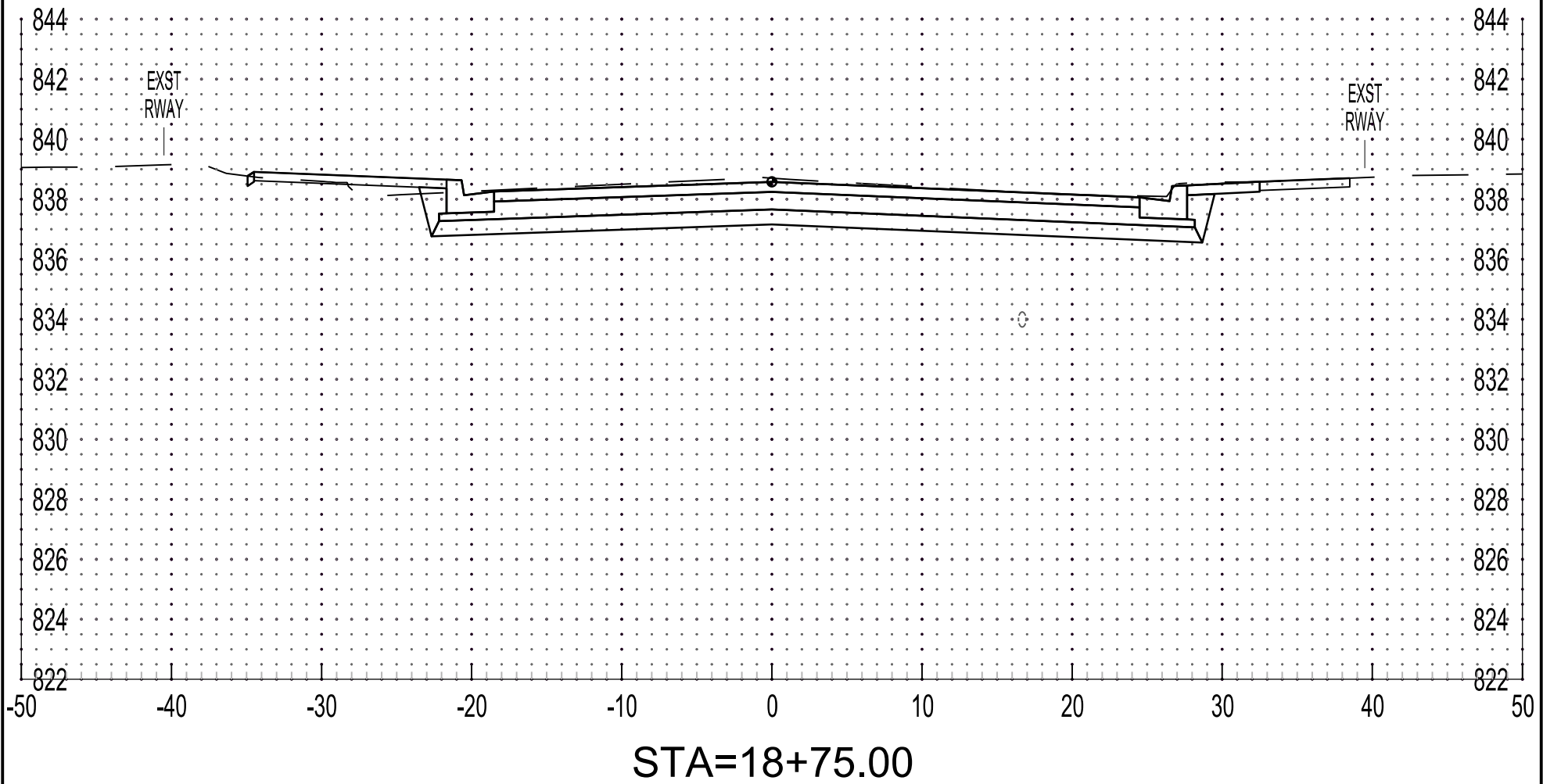
Change numbers
to 66 OF 96



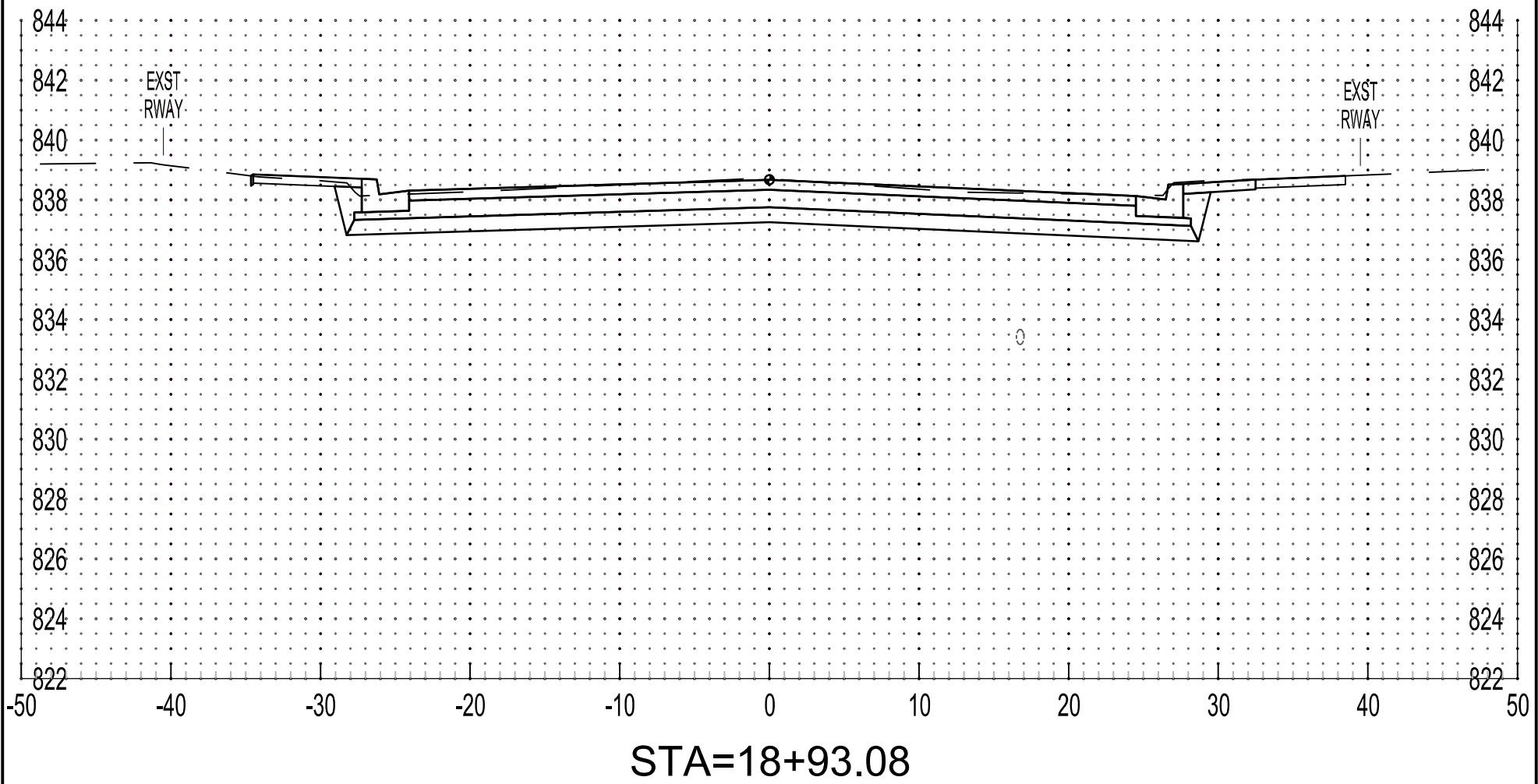
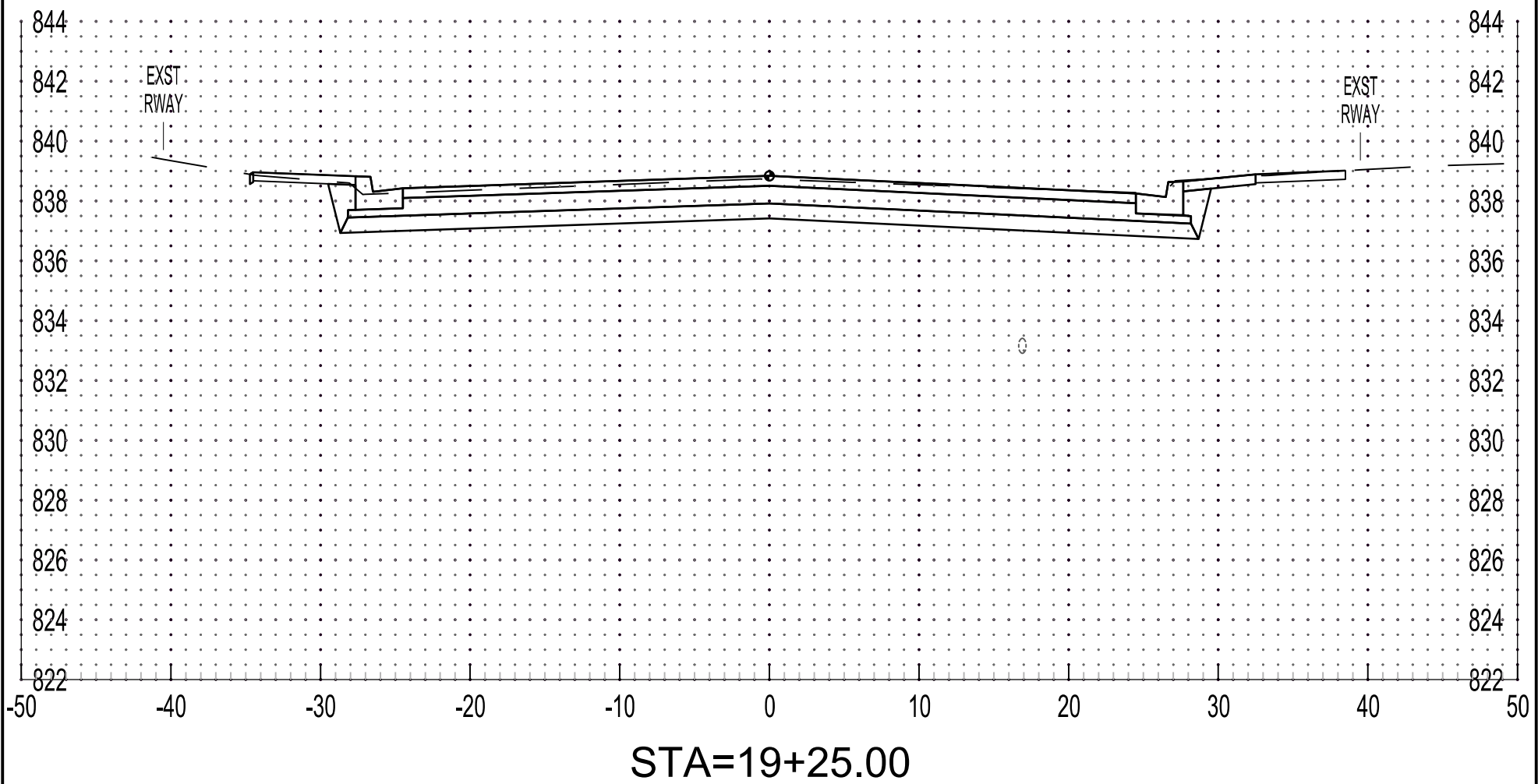
Change numbers
to 67 OF 96



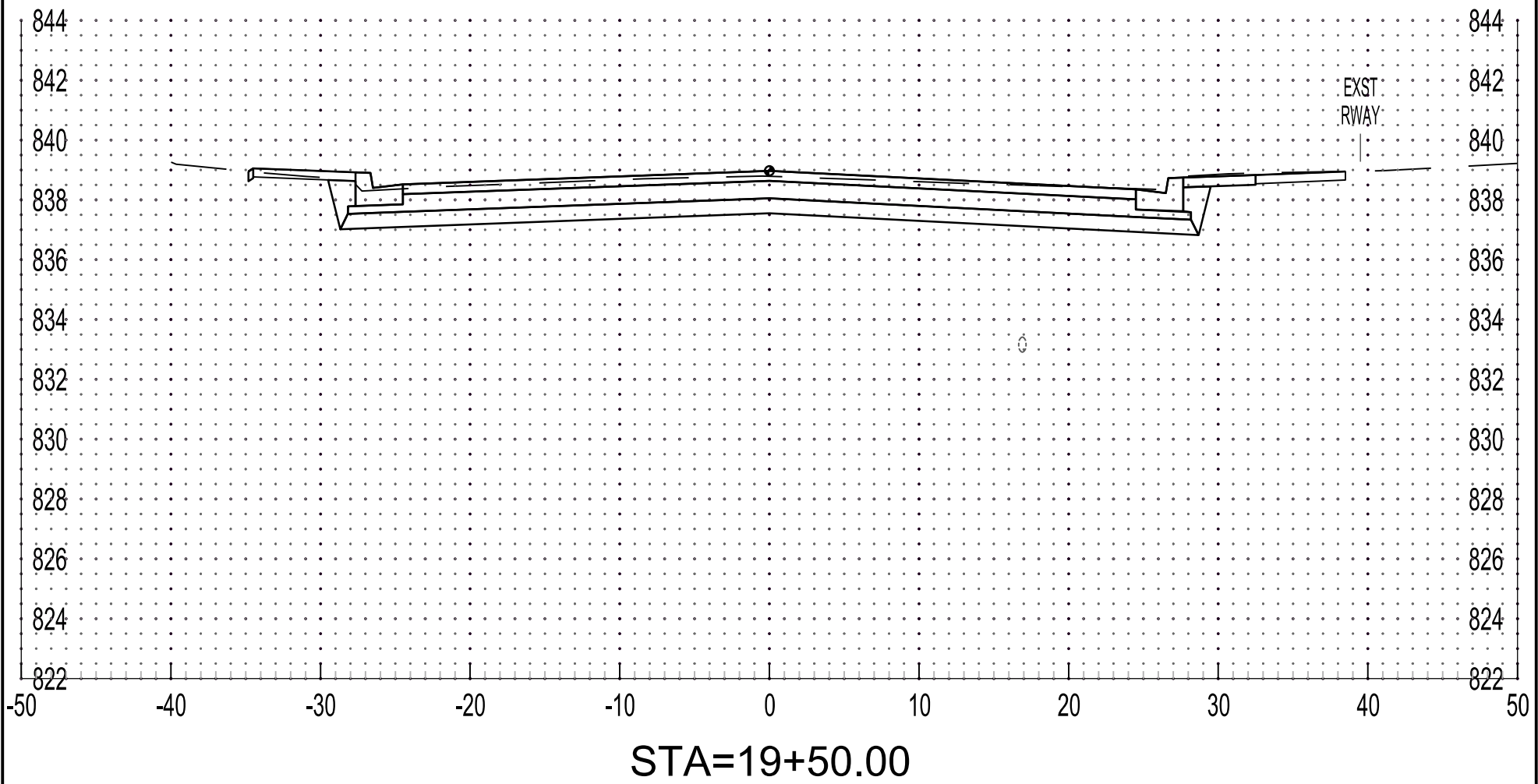
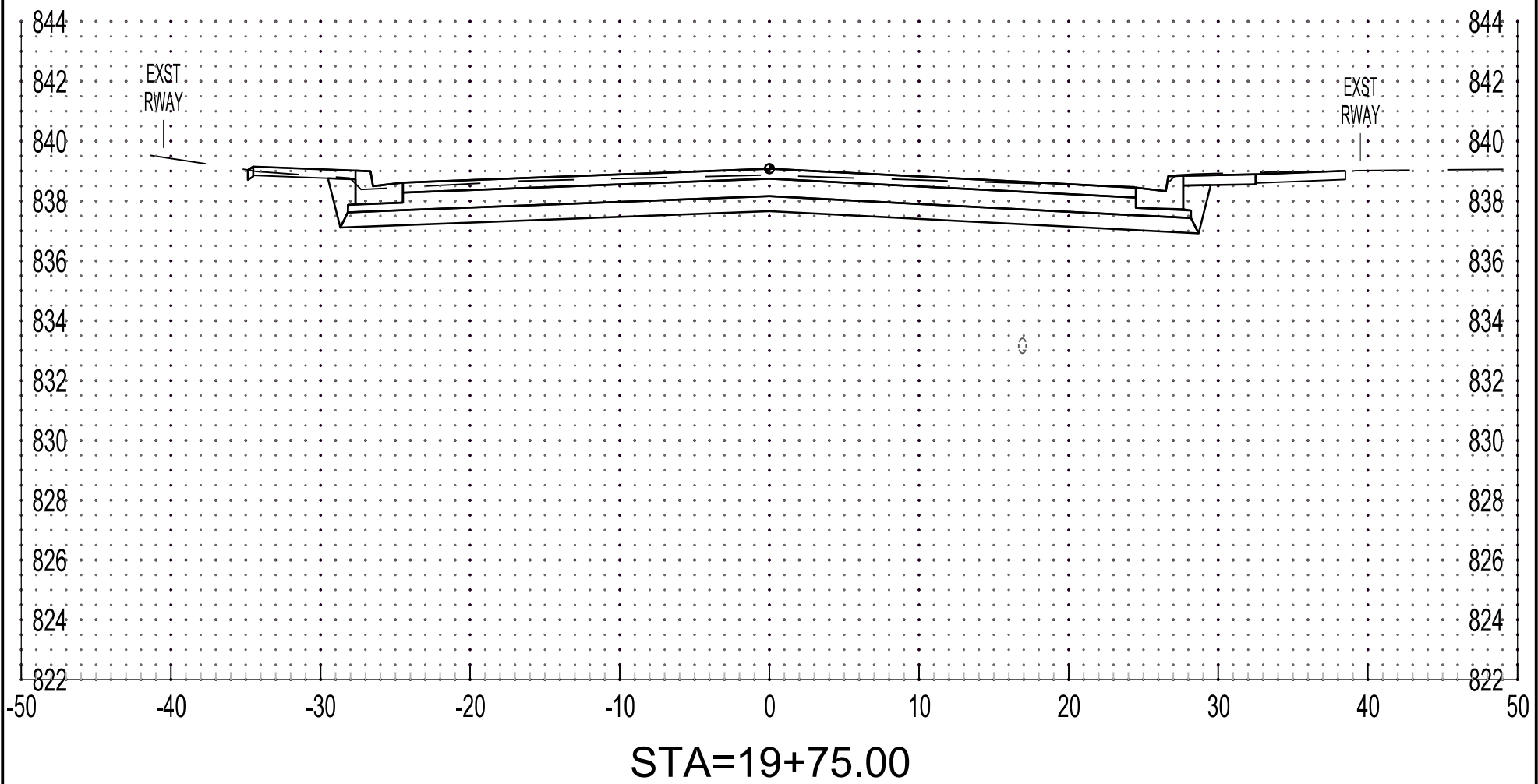
Change numbers
to 68 OF 96



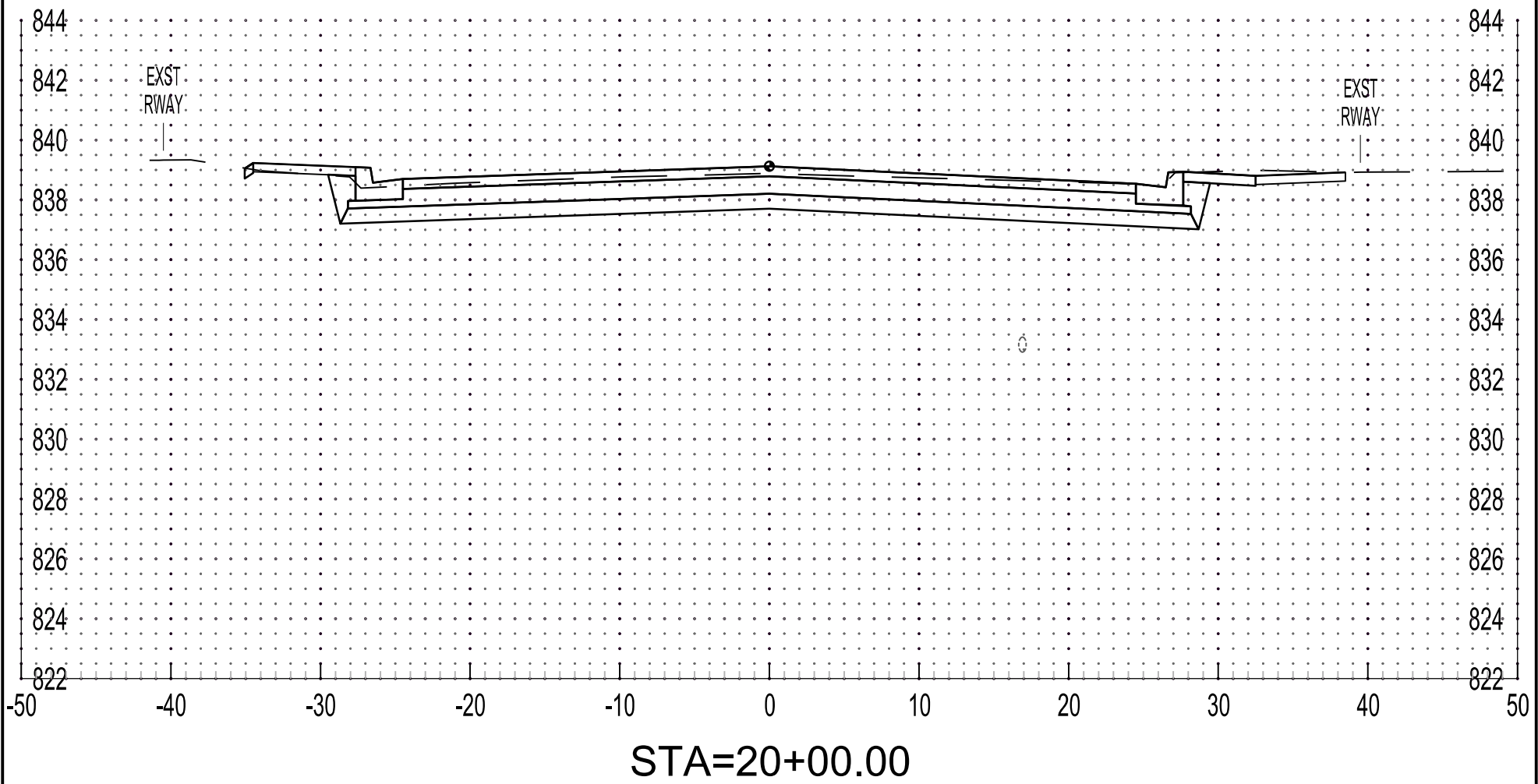
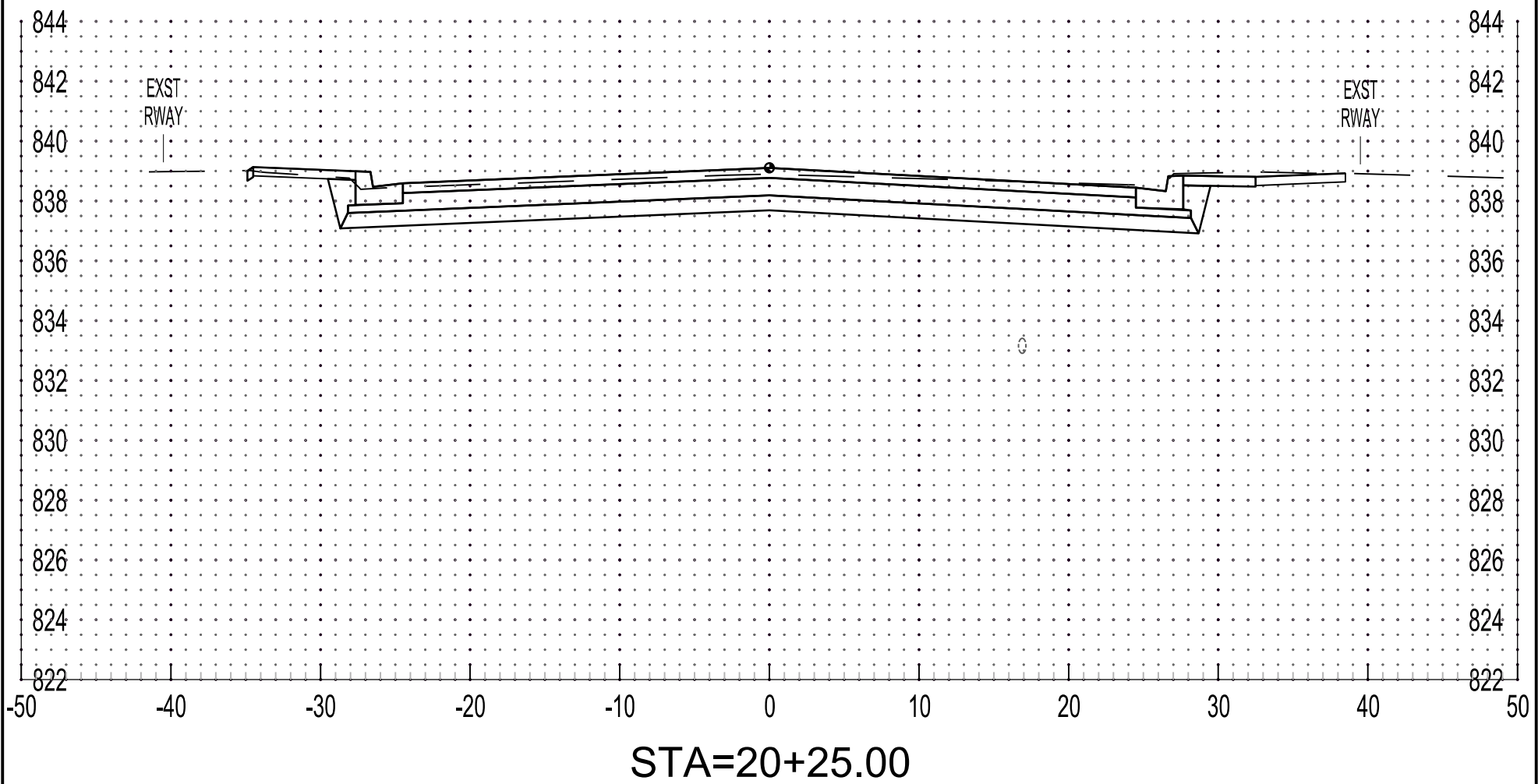
Change numbers
to 69 OF 96



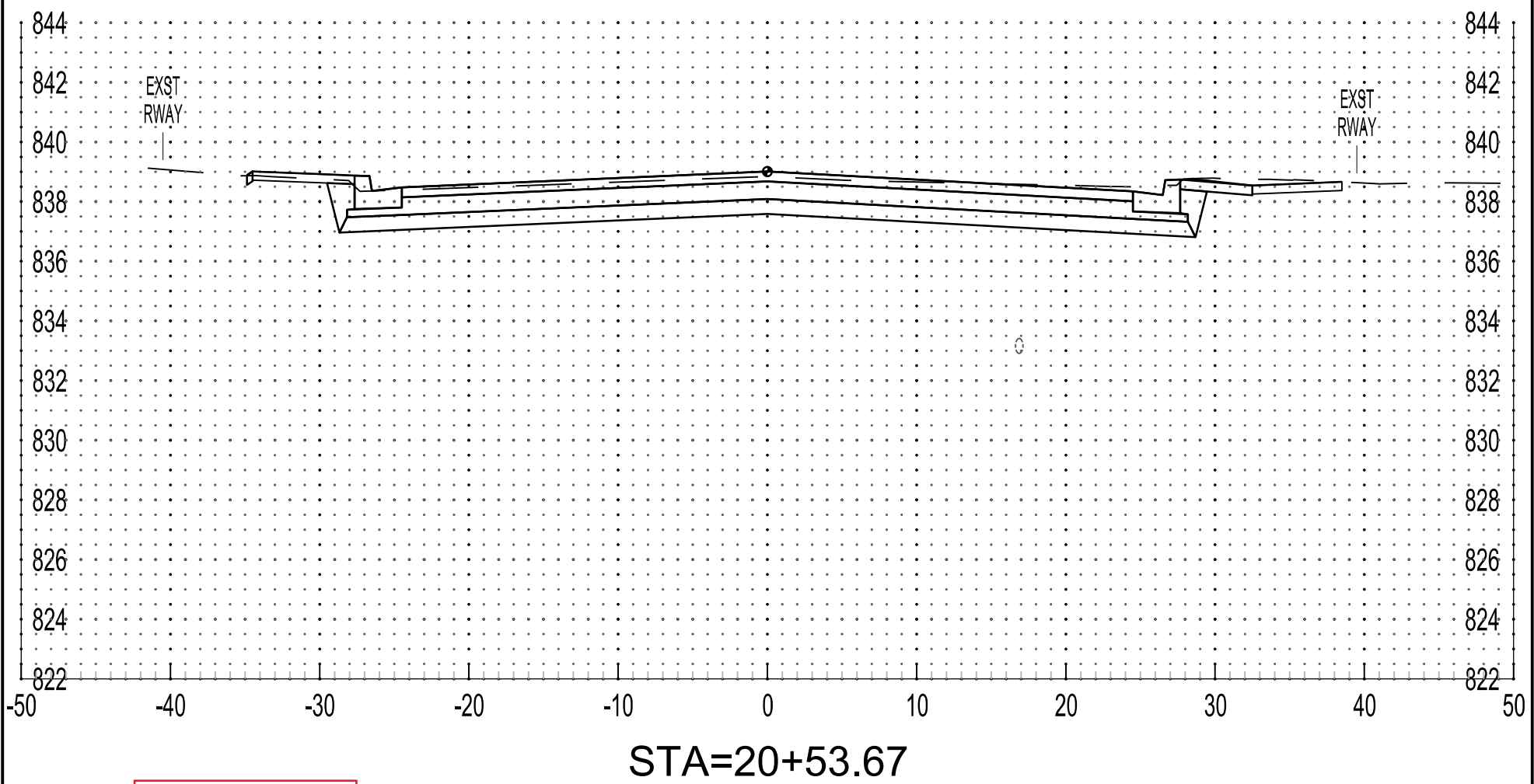
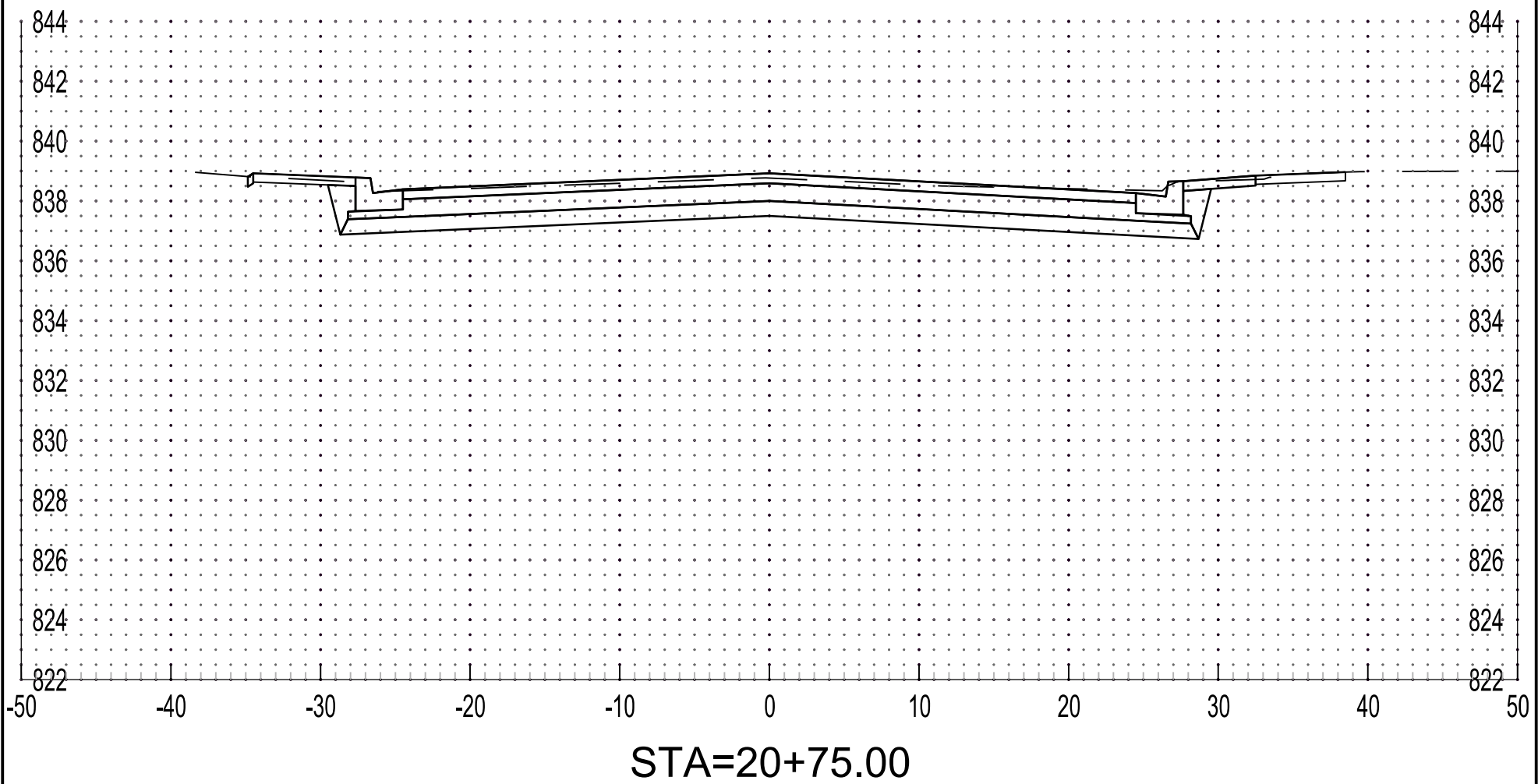
Change numbers
to 70 OF 96



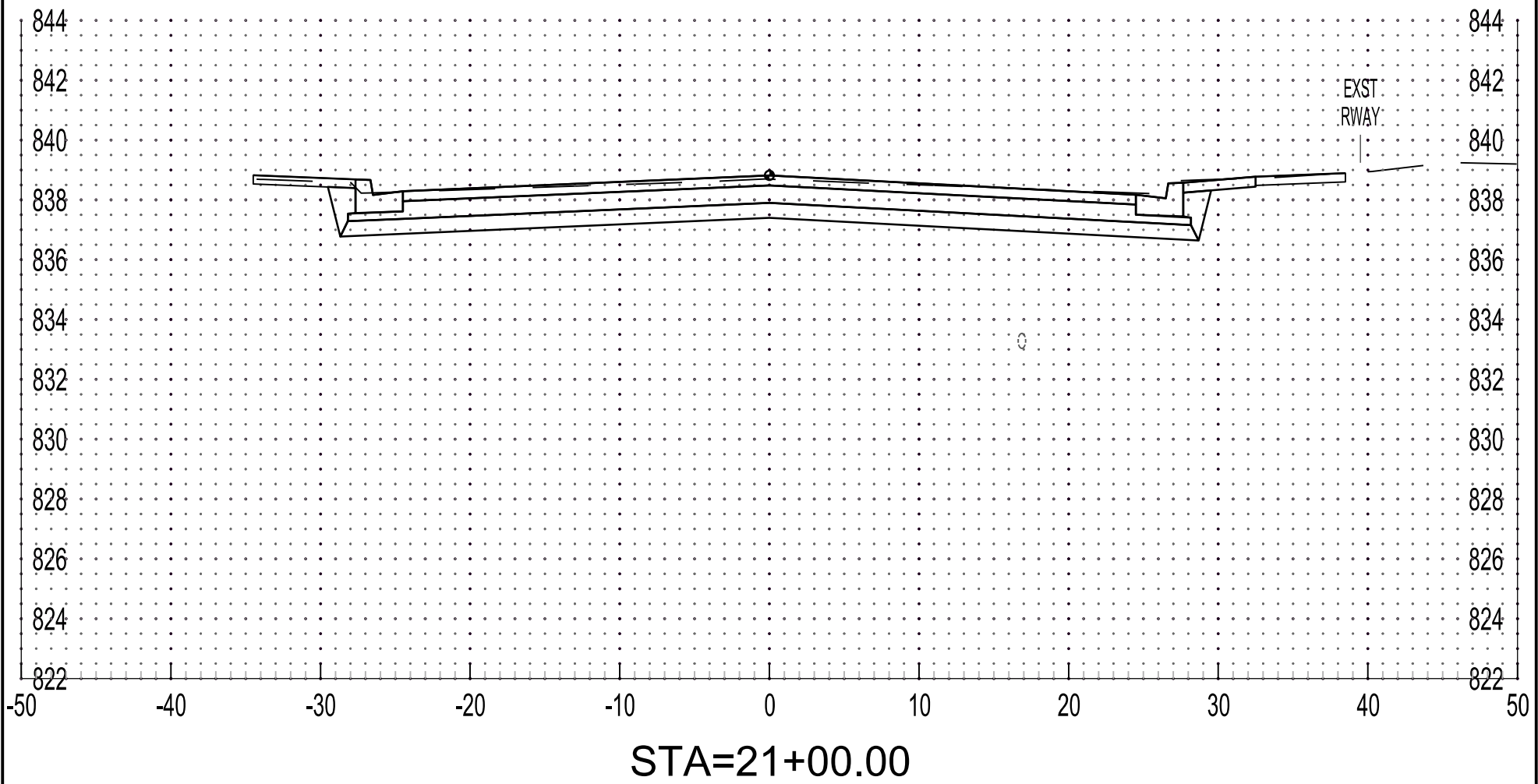
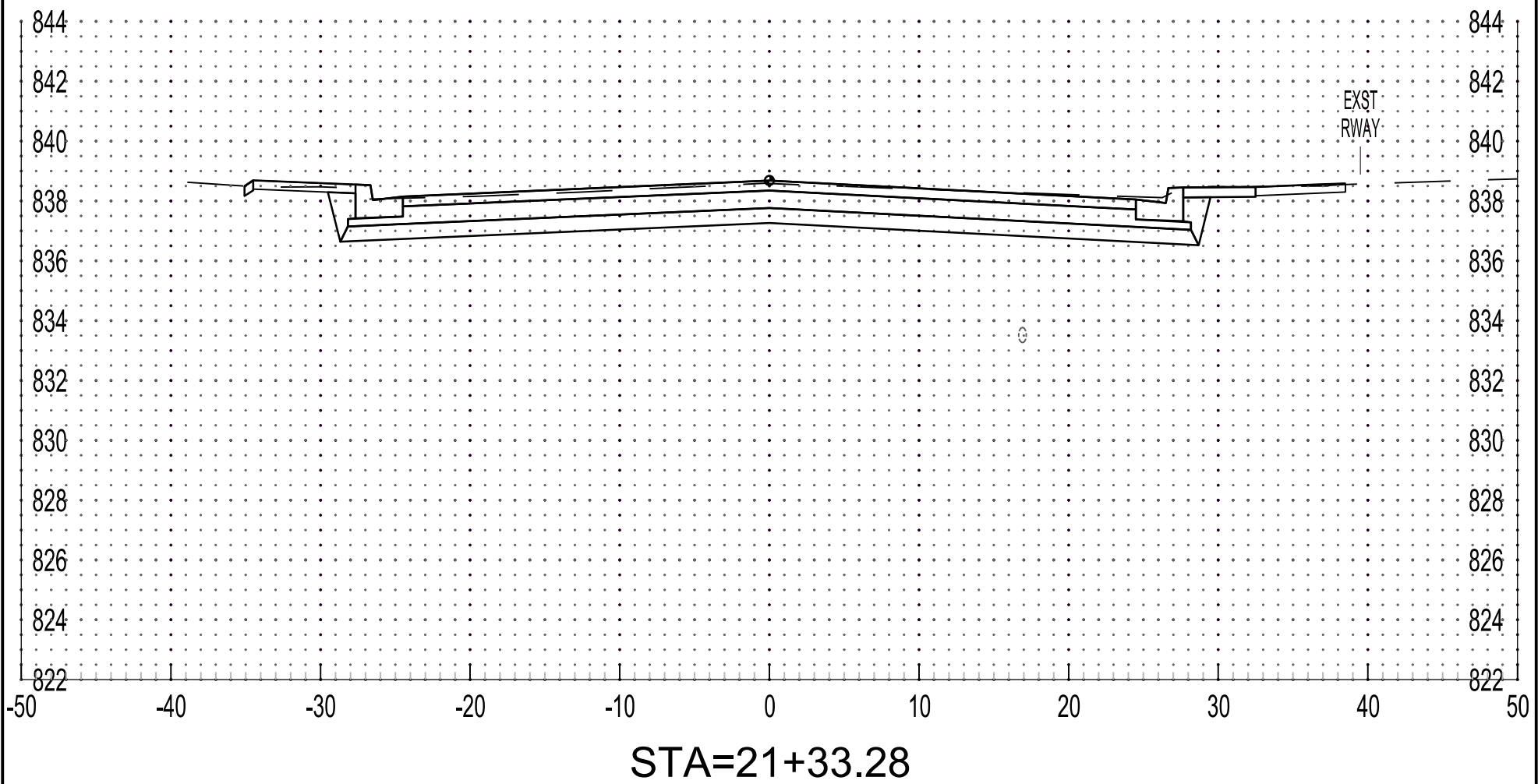
Change numbers
to 71 OF 96



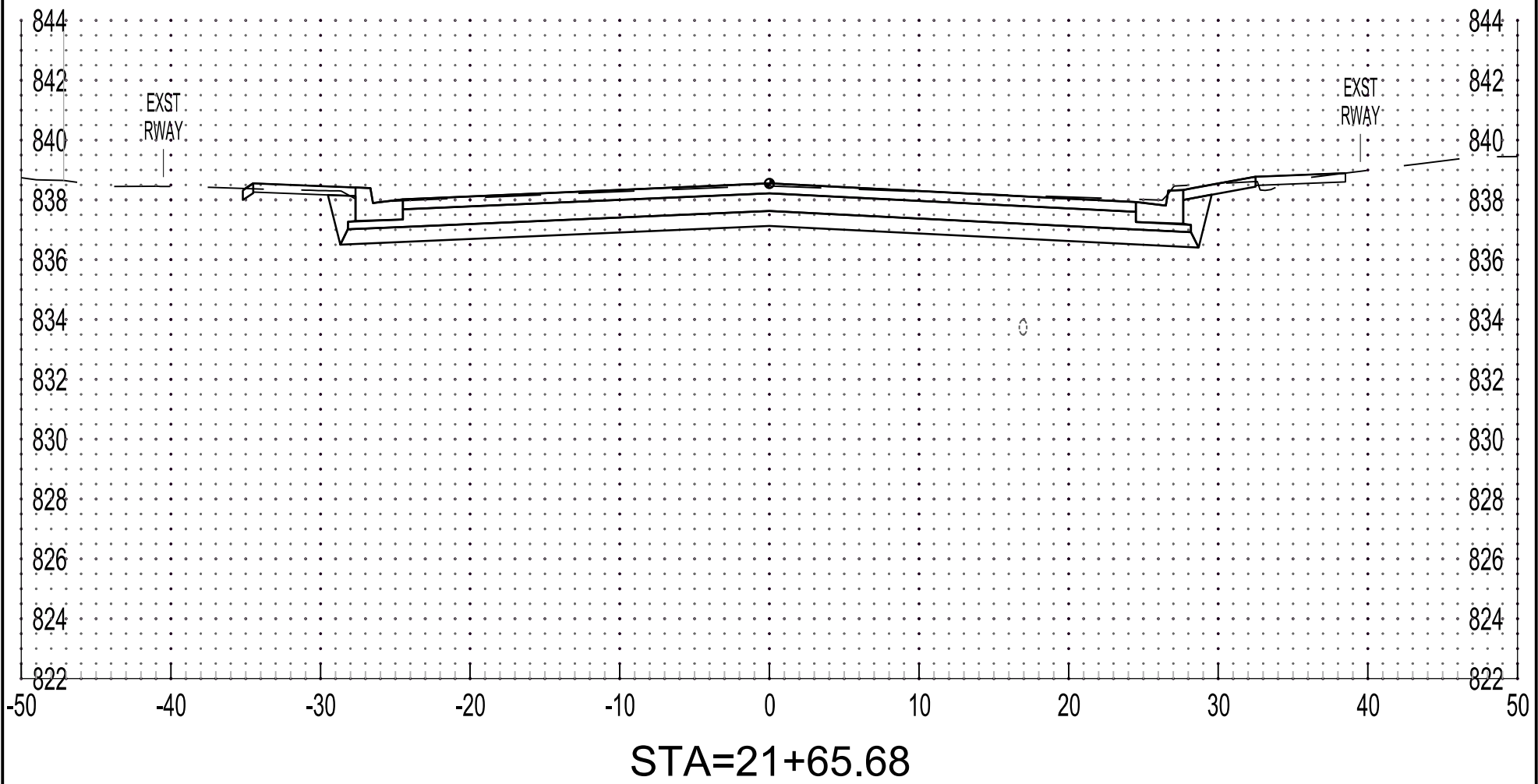
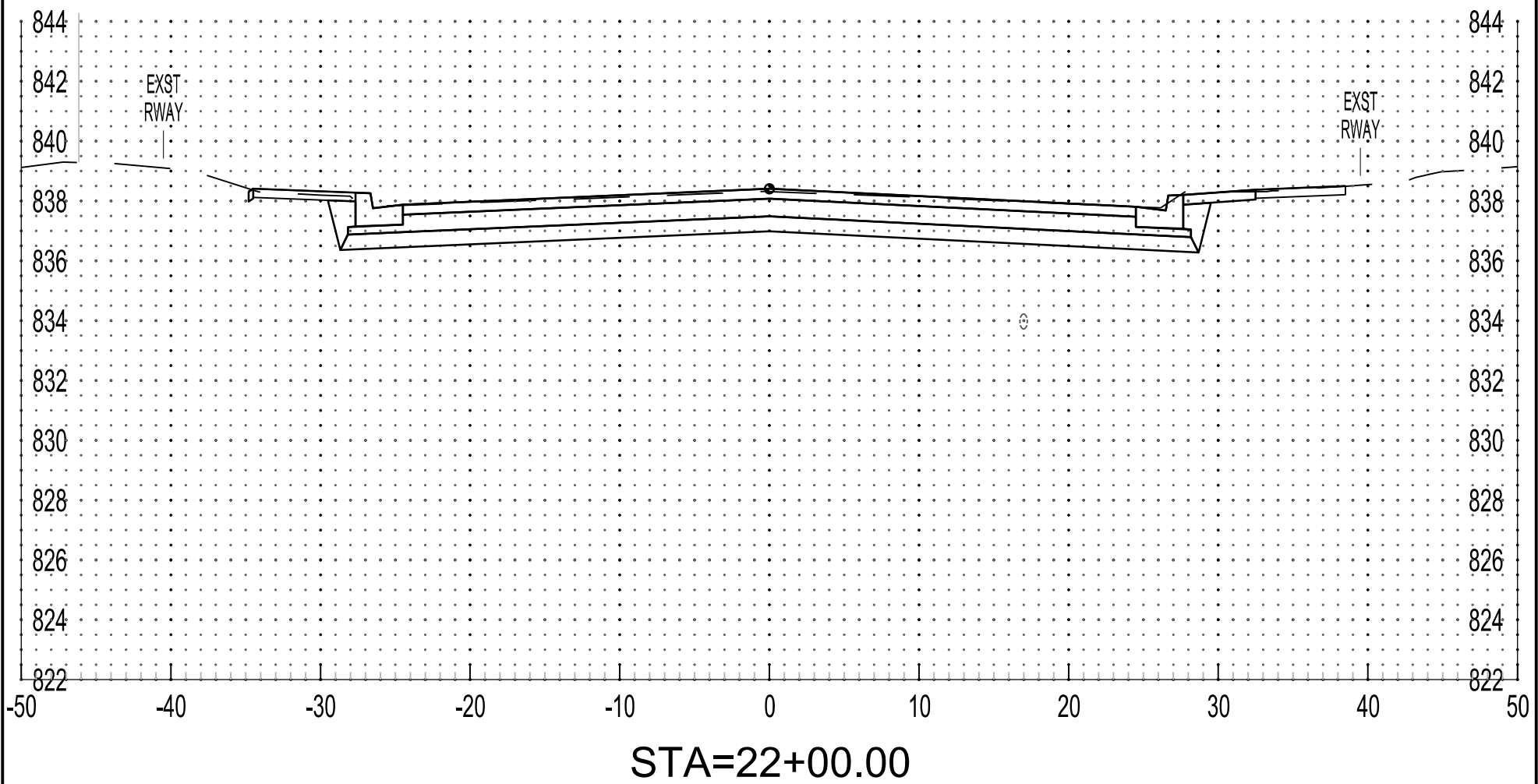
Change numbers
to 72 OF 96



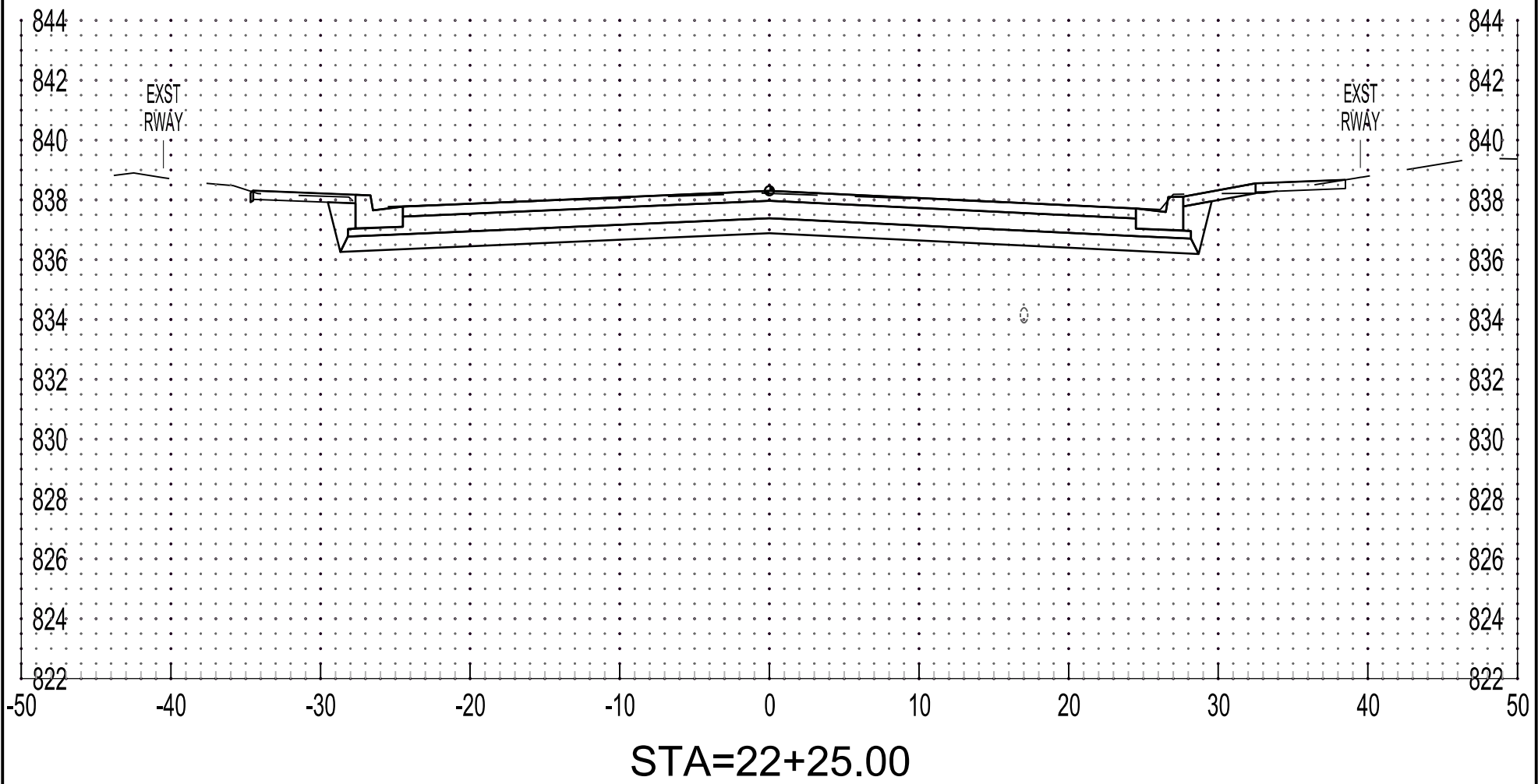
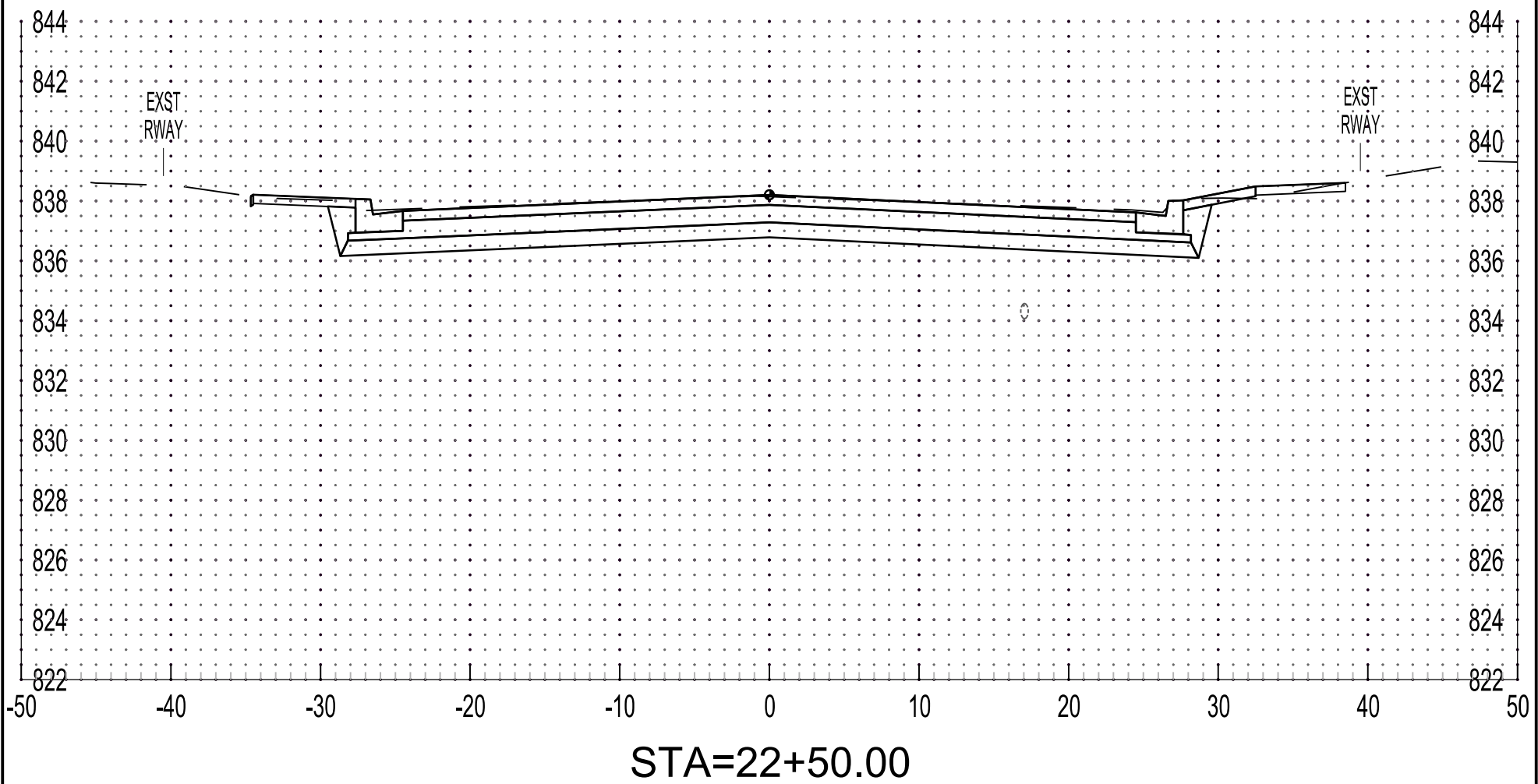
Change numbers
to 73 OF 96



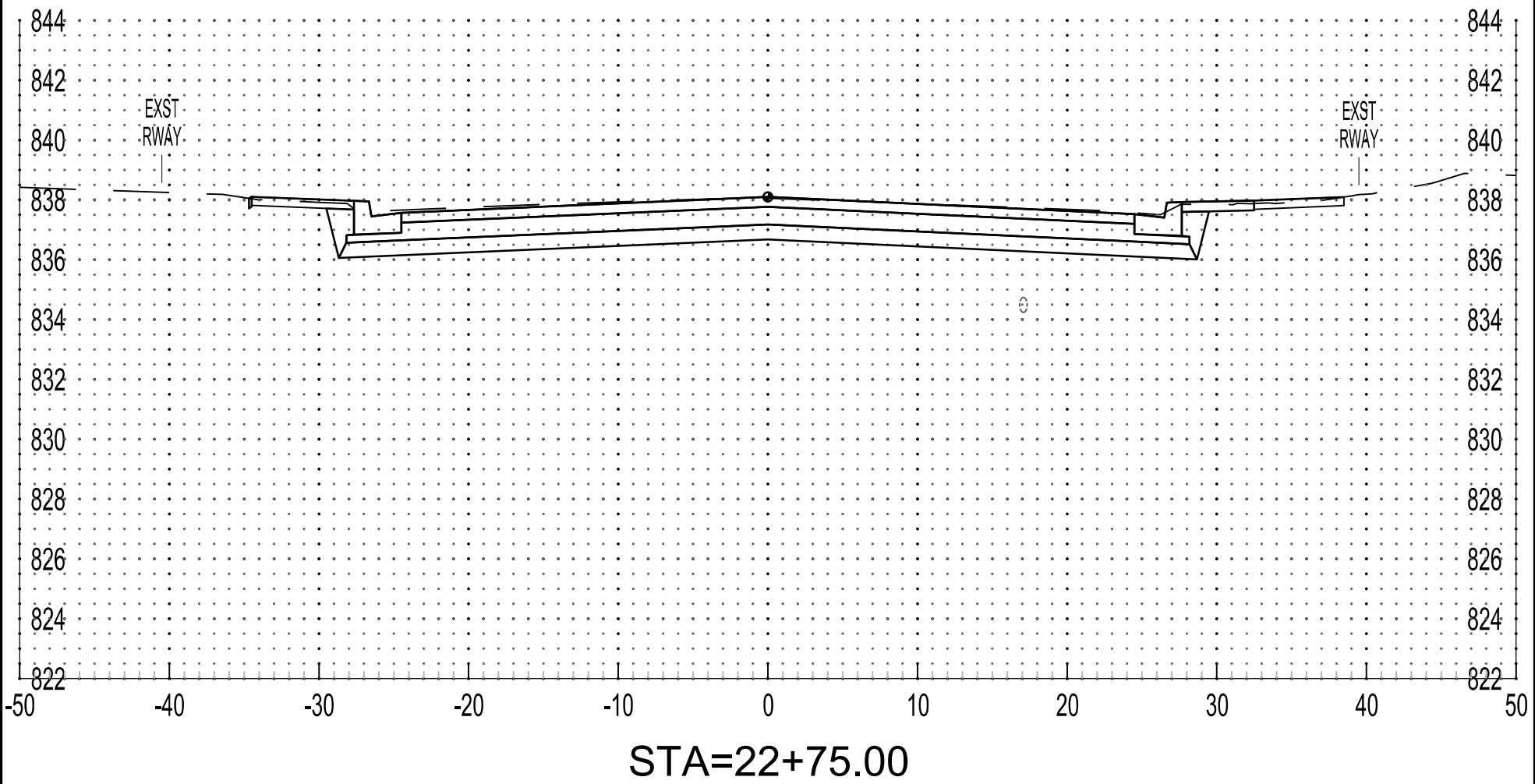
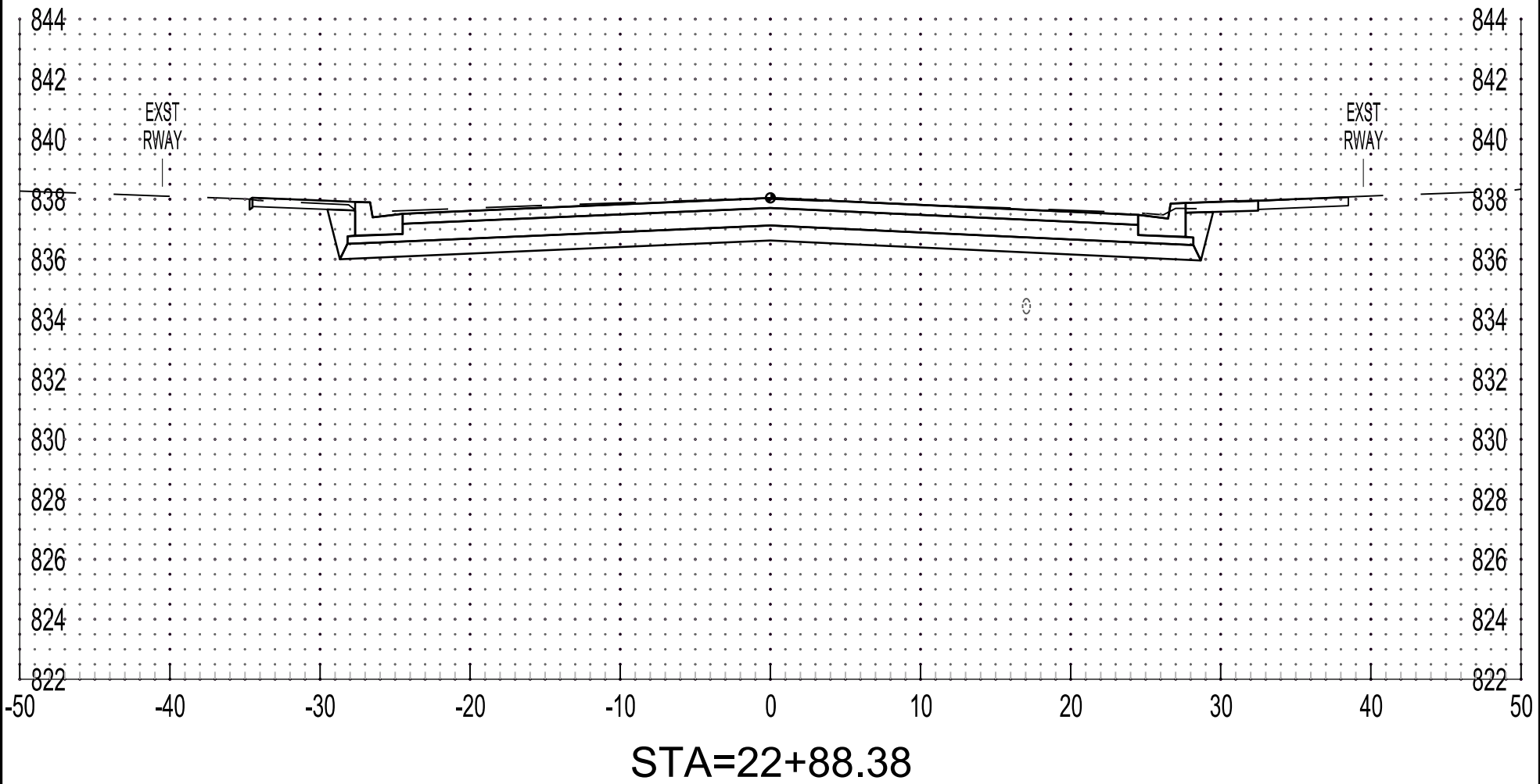
Change numbers
to 74 OF 96



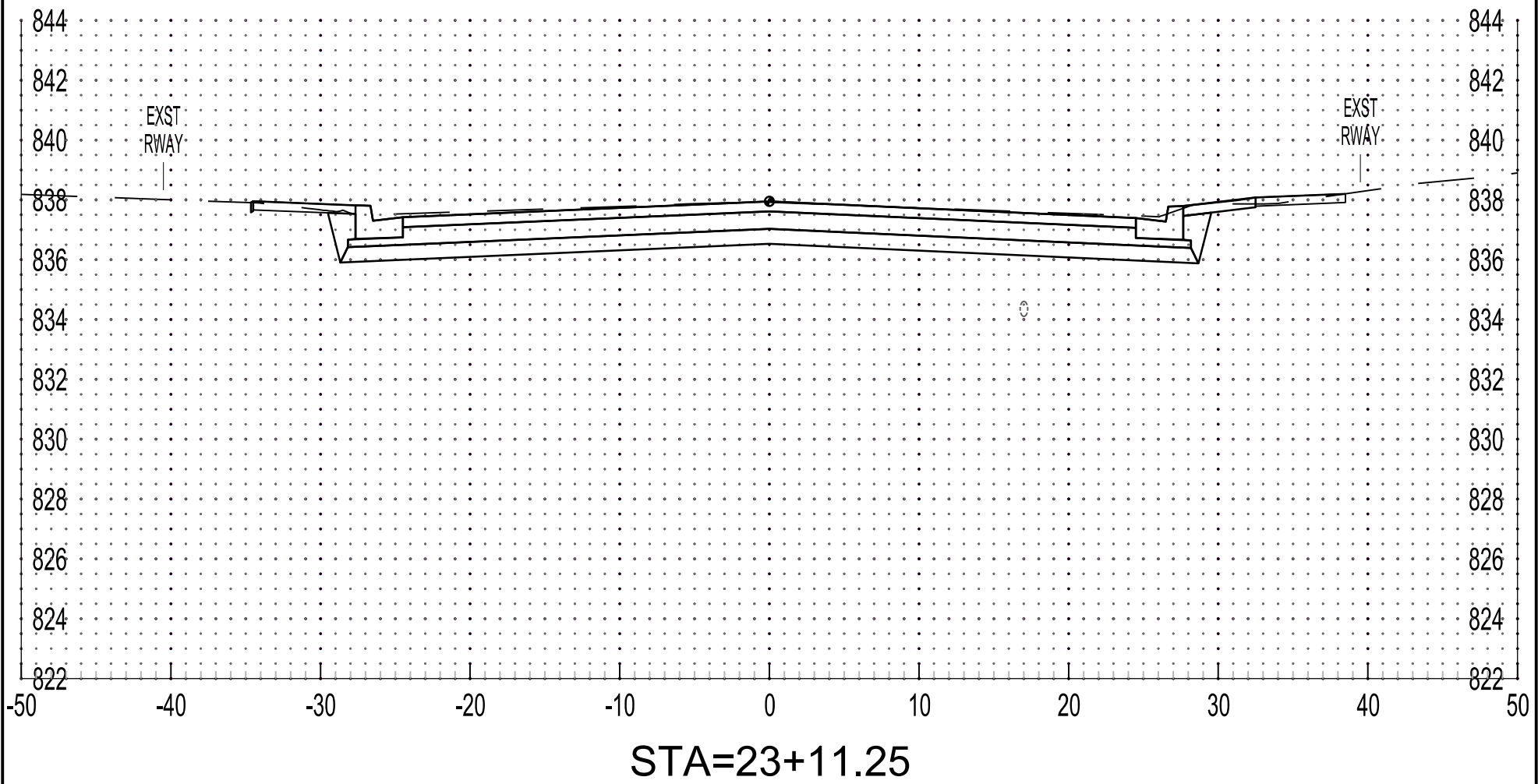
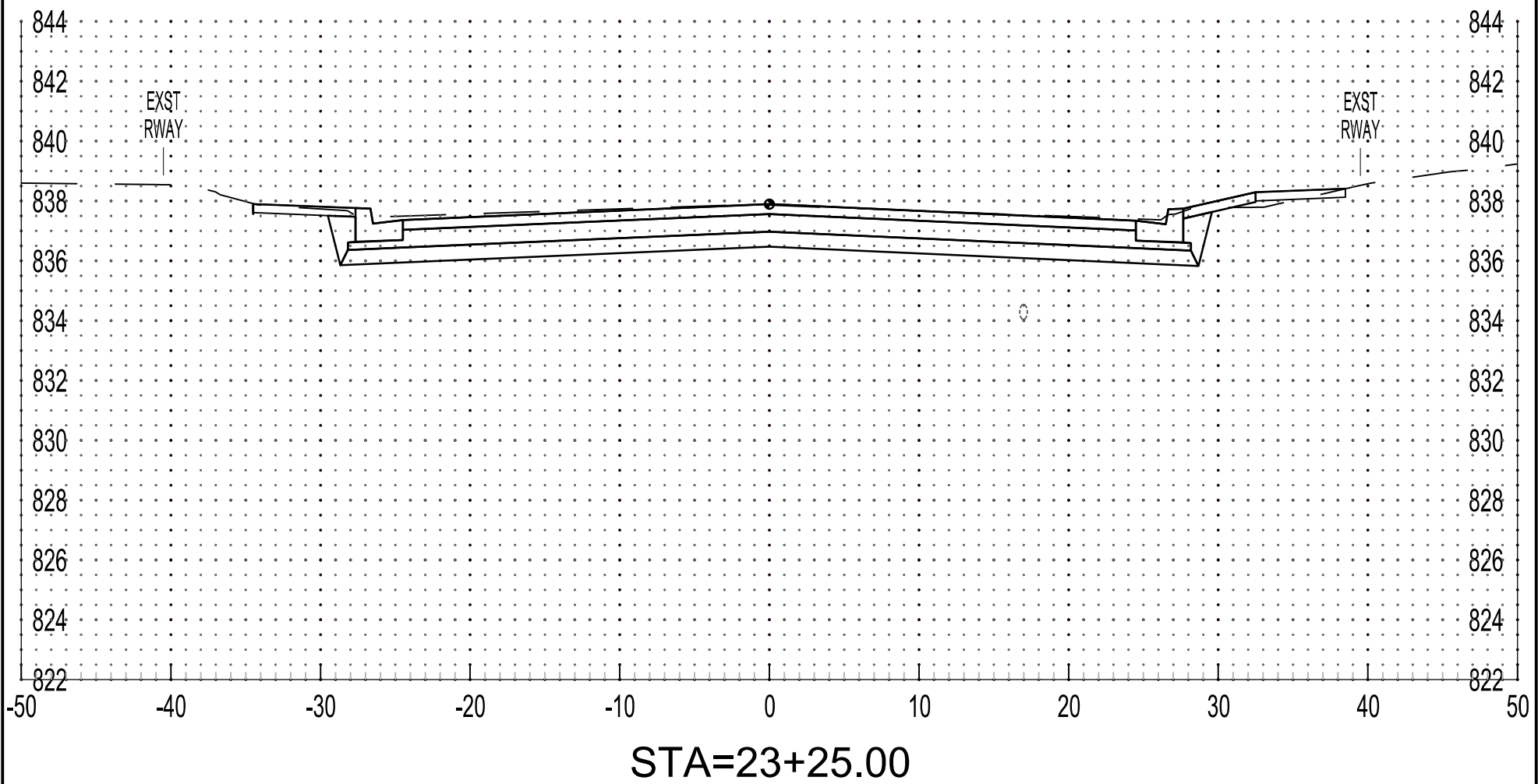
Change numbers
to 75 OF 96



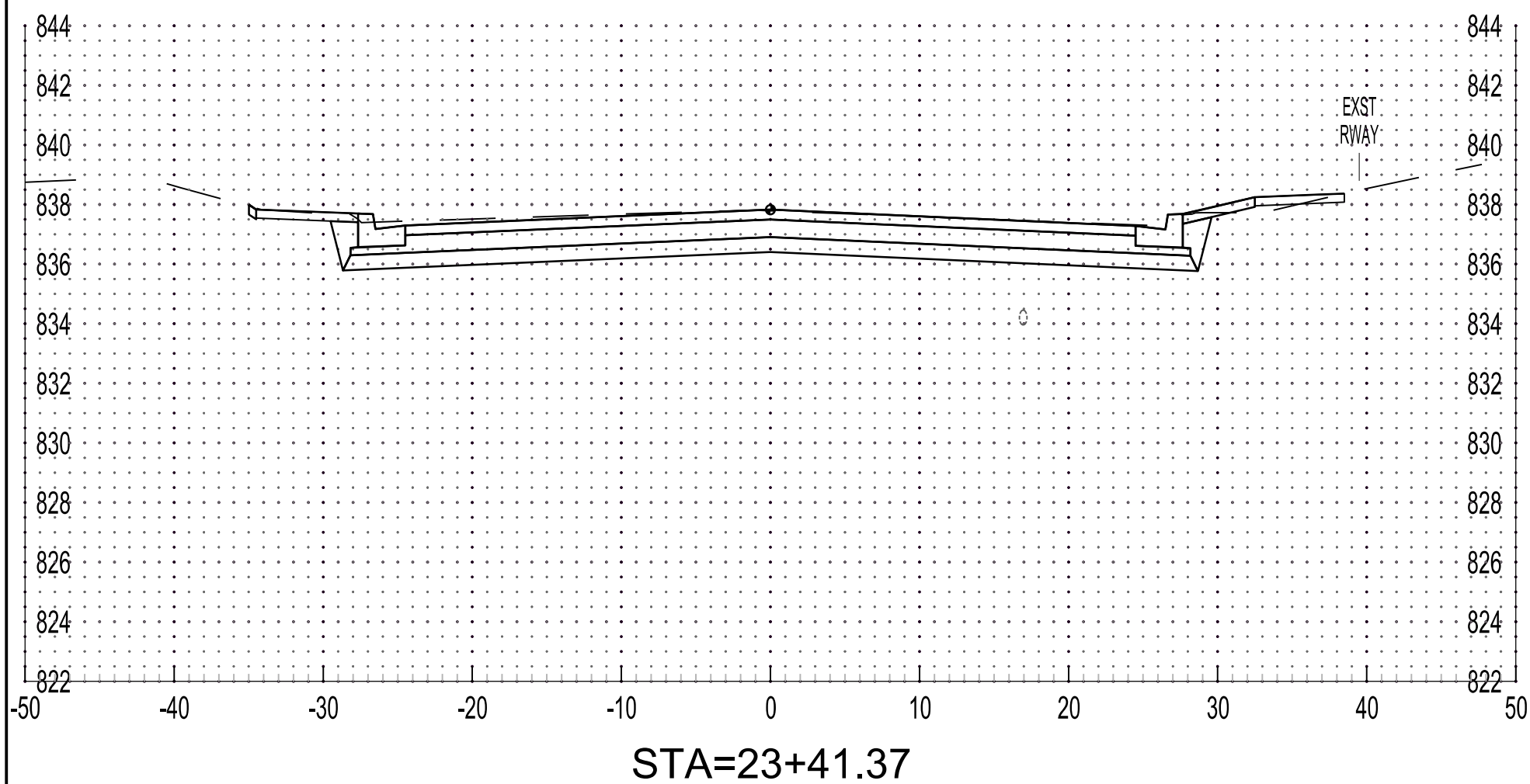
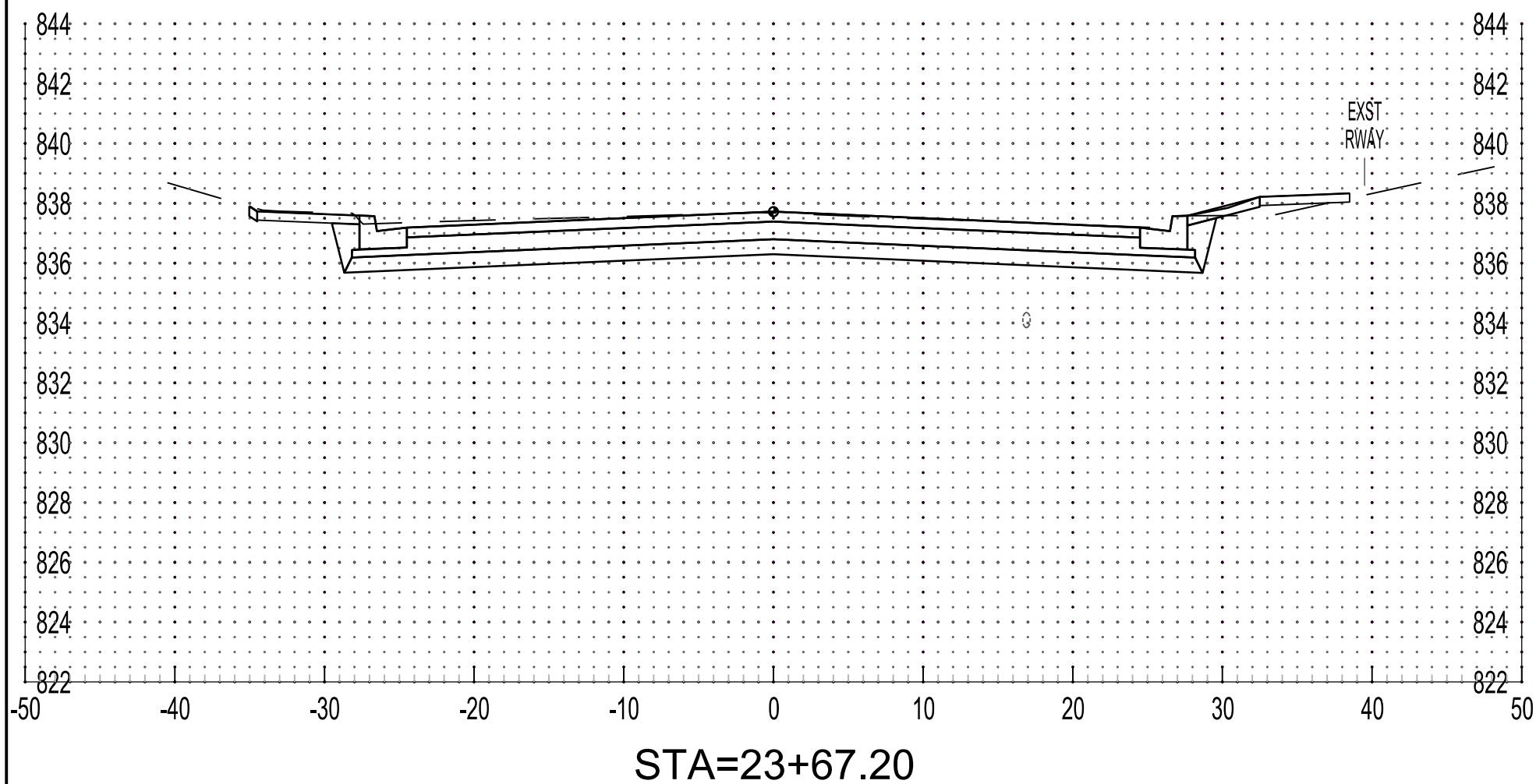
Change numbers
to 76 OF 96



Change numbers
to 77 OF 96

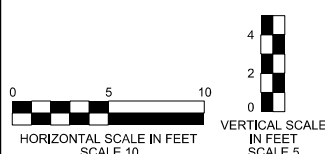


Change numbers
to 78 OF 96



Change numbers
to 79 OF 96

X27
OF
X44



| NO. | DATE | DRW | CKD | APP | REVISION |
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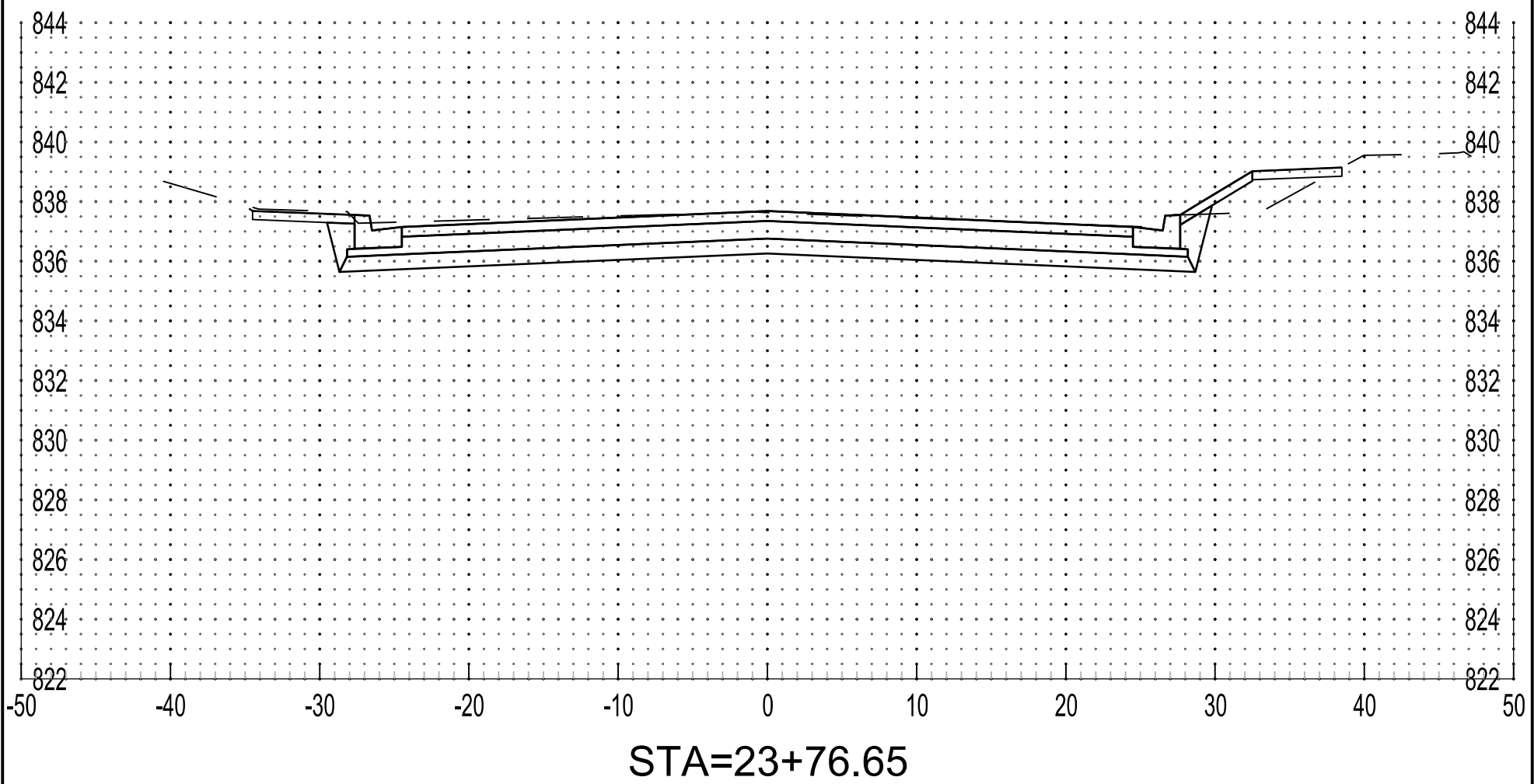
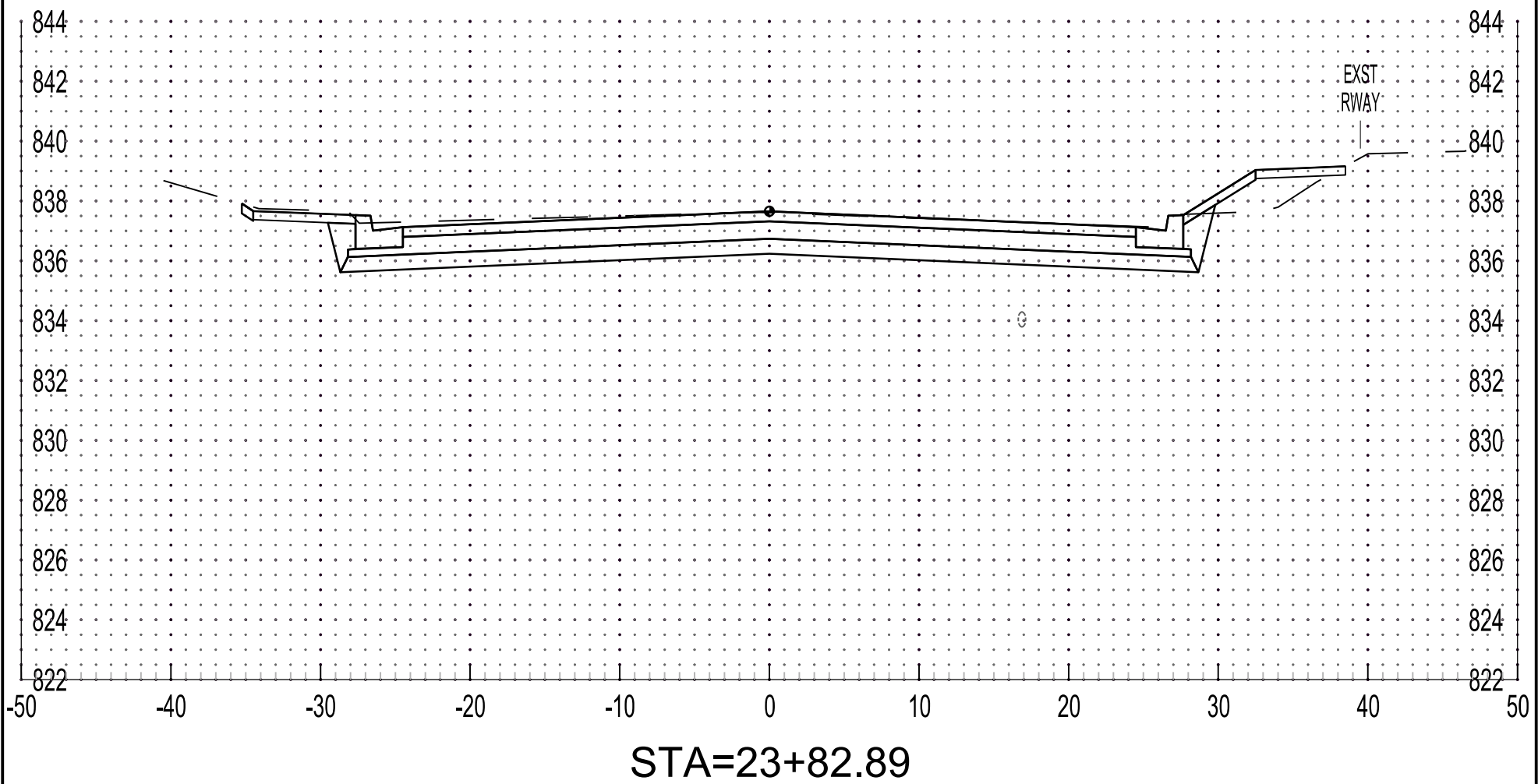
MINNEAPOLIS
DEPARTMENT OF
PUBLIC WORKS

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| DRW:HRV | DATE: 05/26/15 |
| CHK: HRV | DATE: |
| APP: BJW | DATE: |

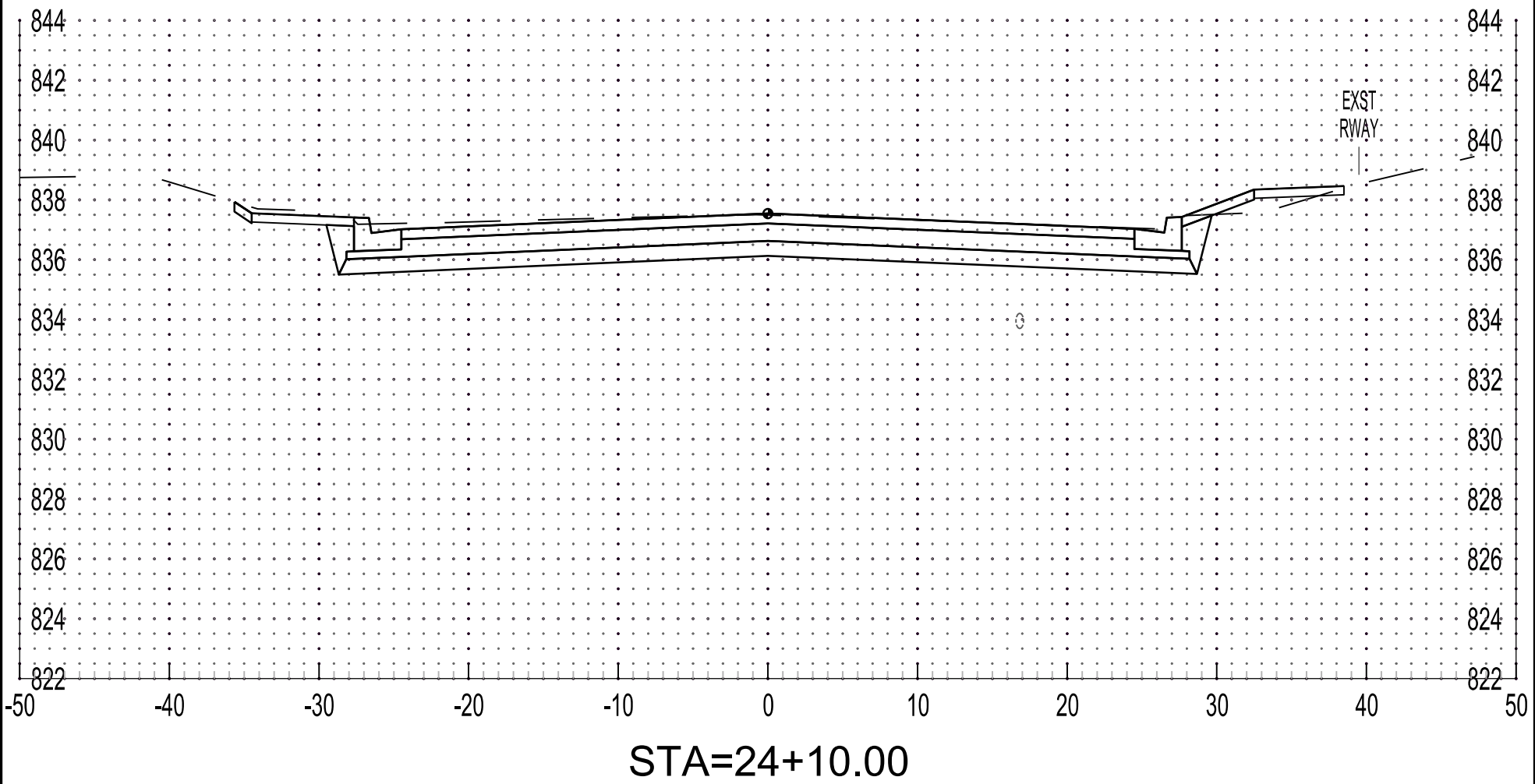
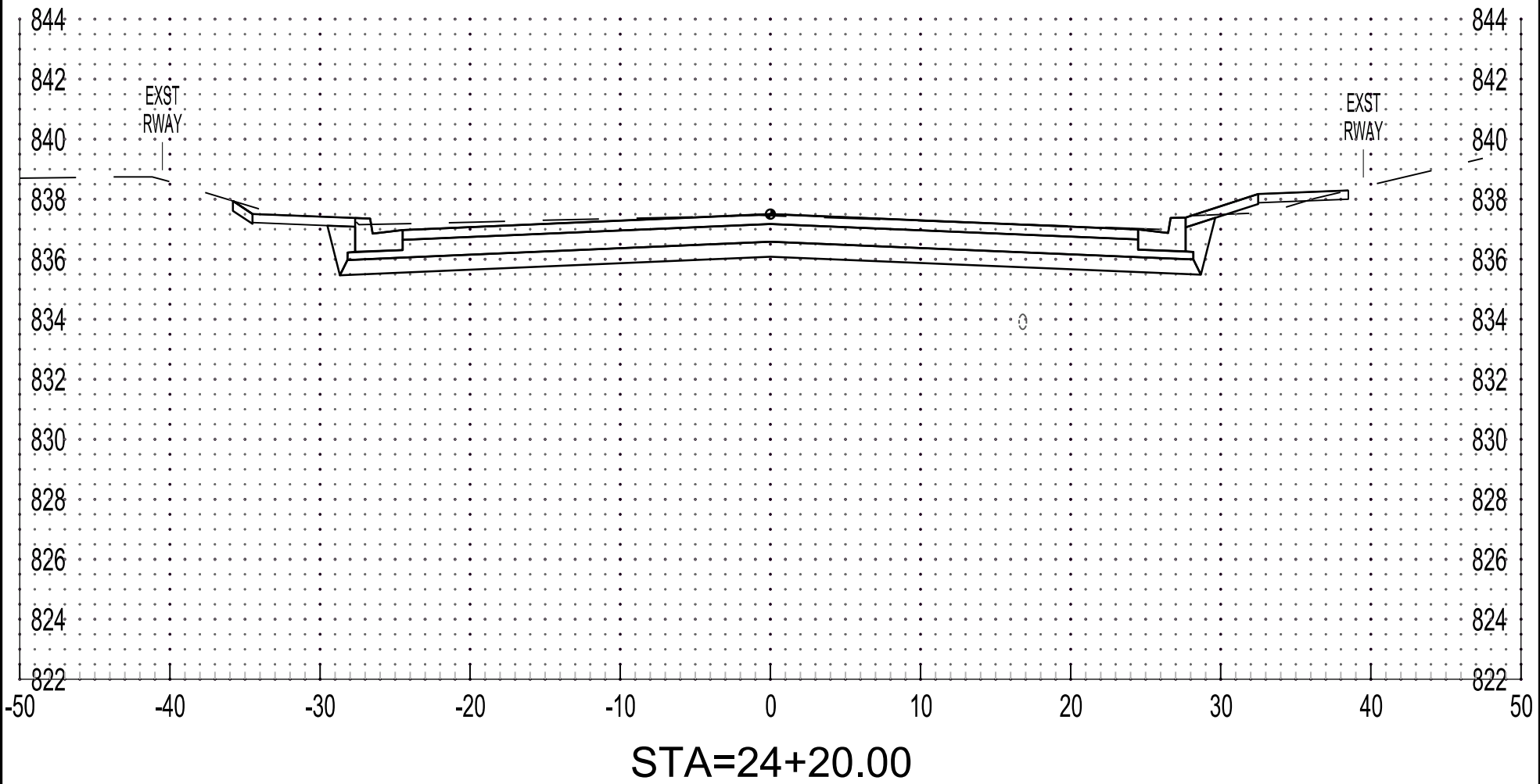
MINNEHAHA AVE 26TH TO 24TH

L.P. 600D 6754

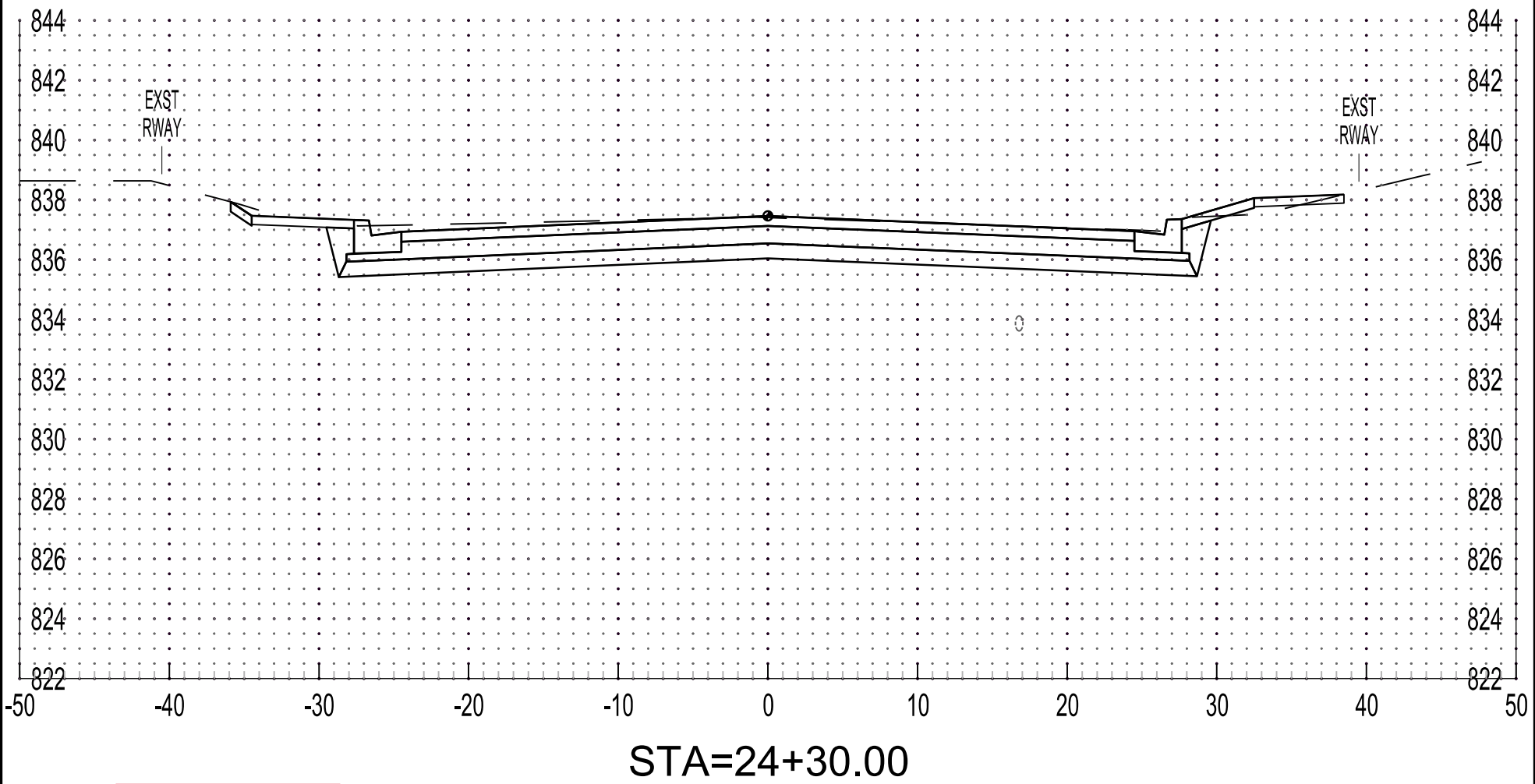
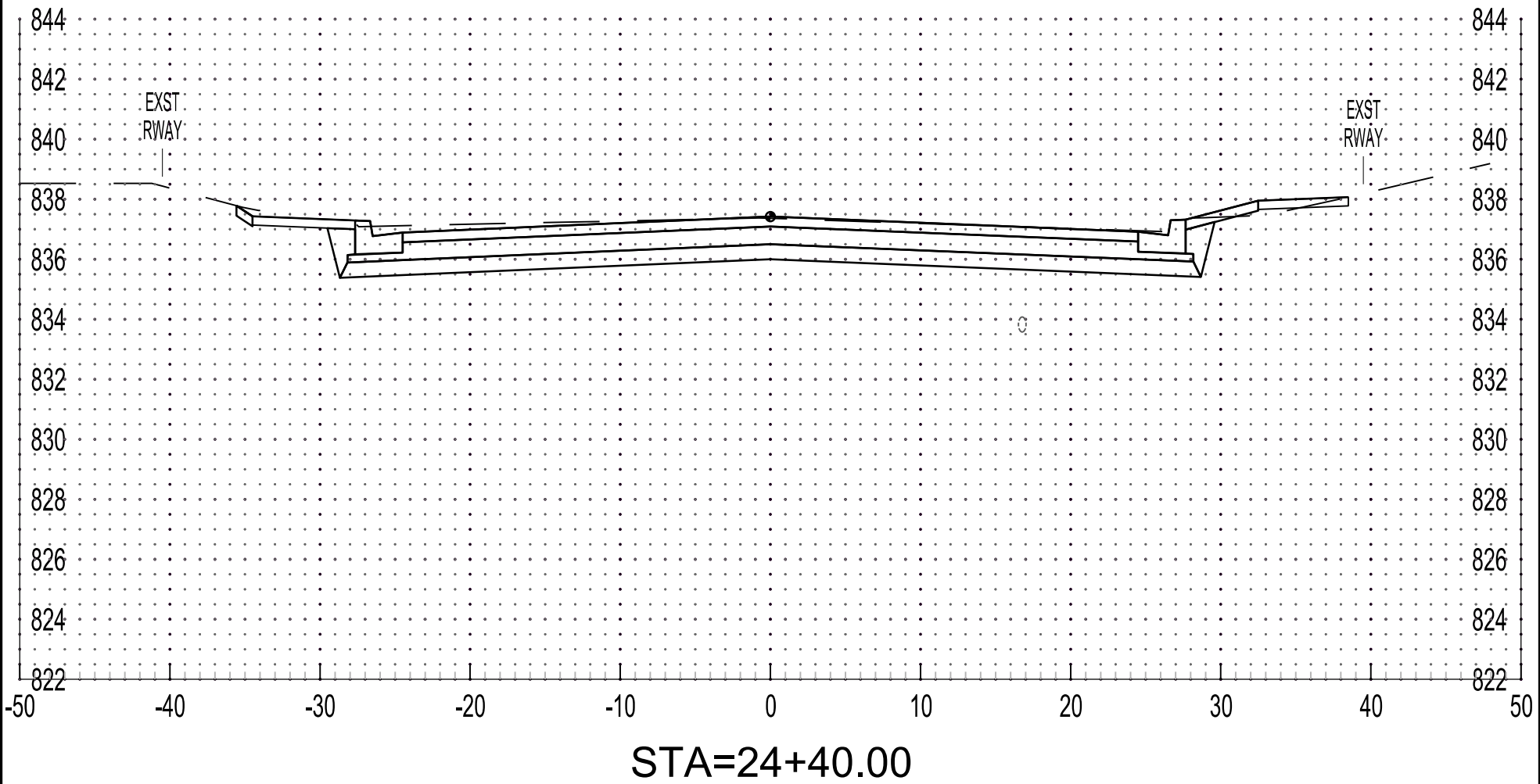
S.A.P. 141-191-009



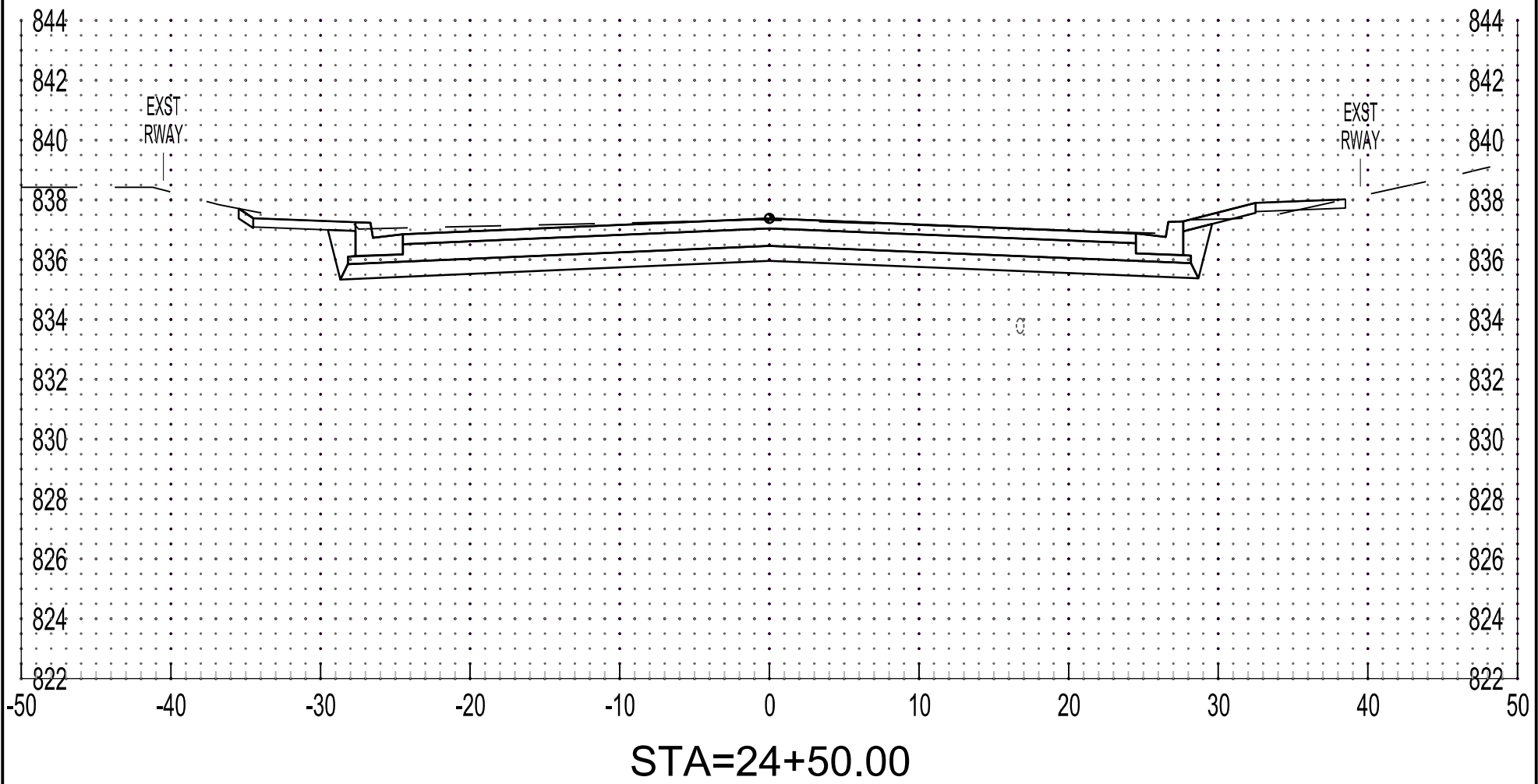
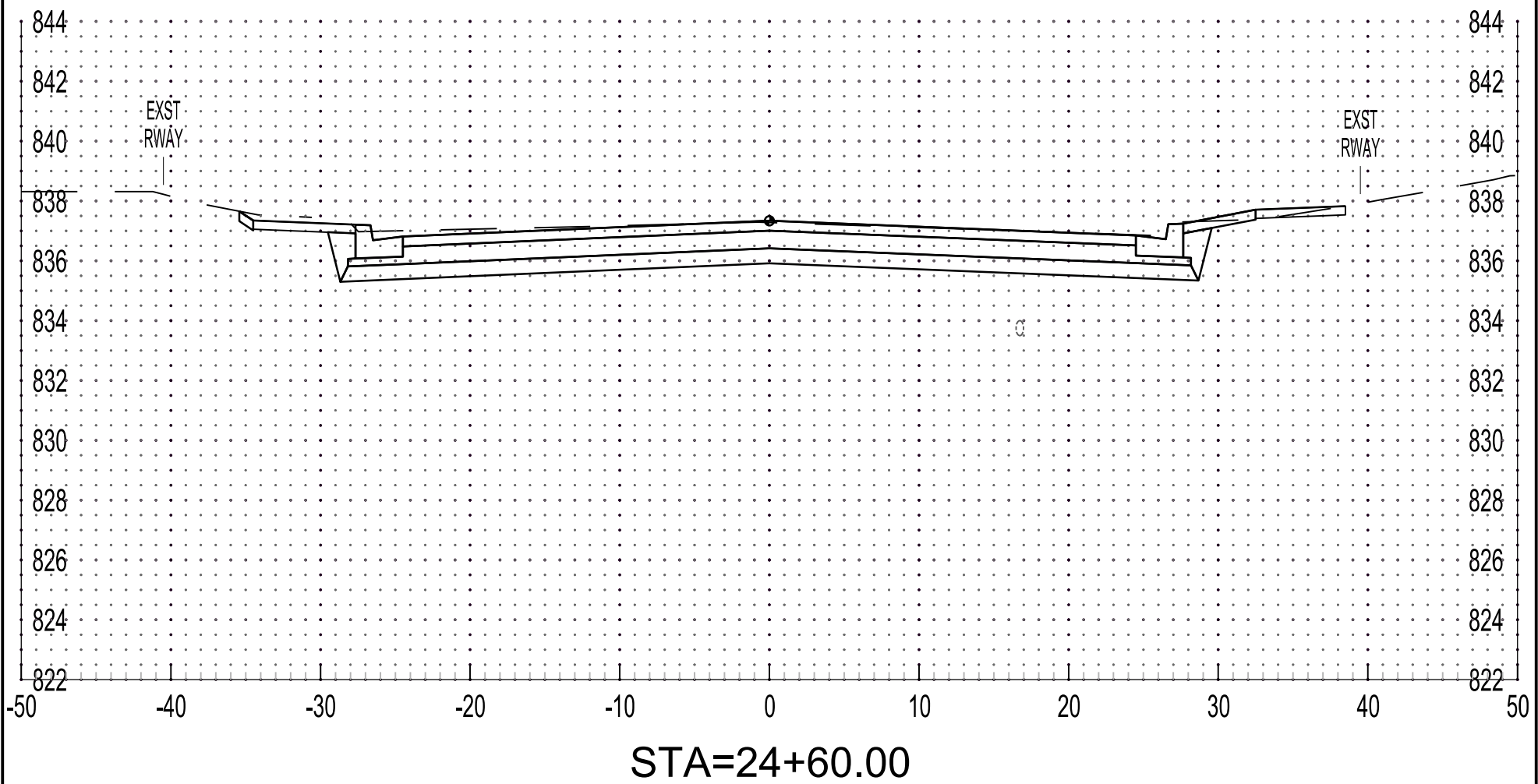
Change numbers
to 80 OF 96



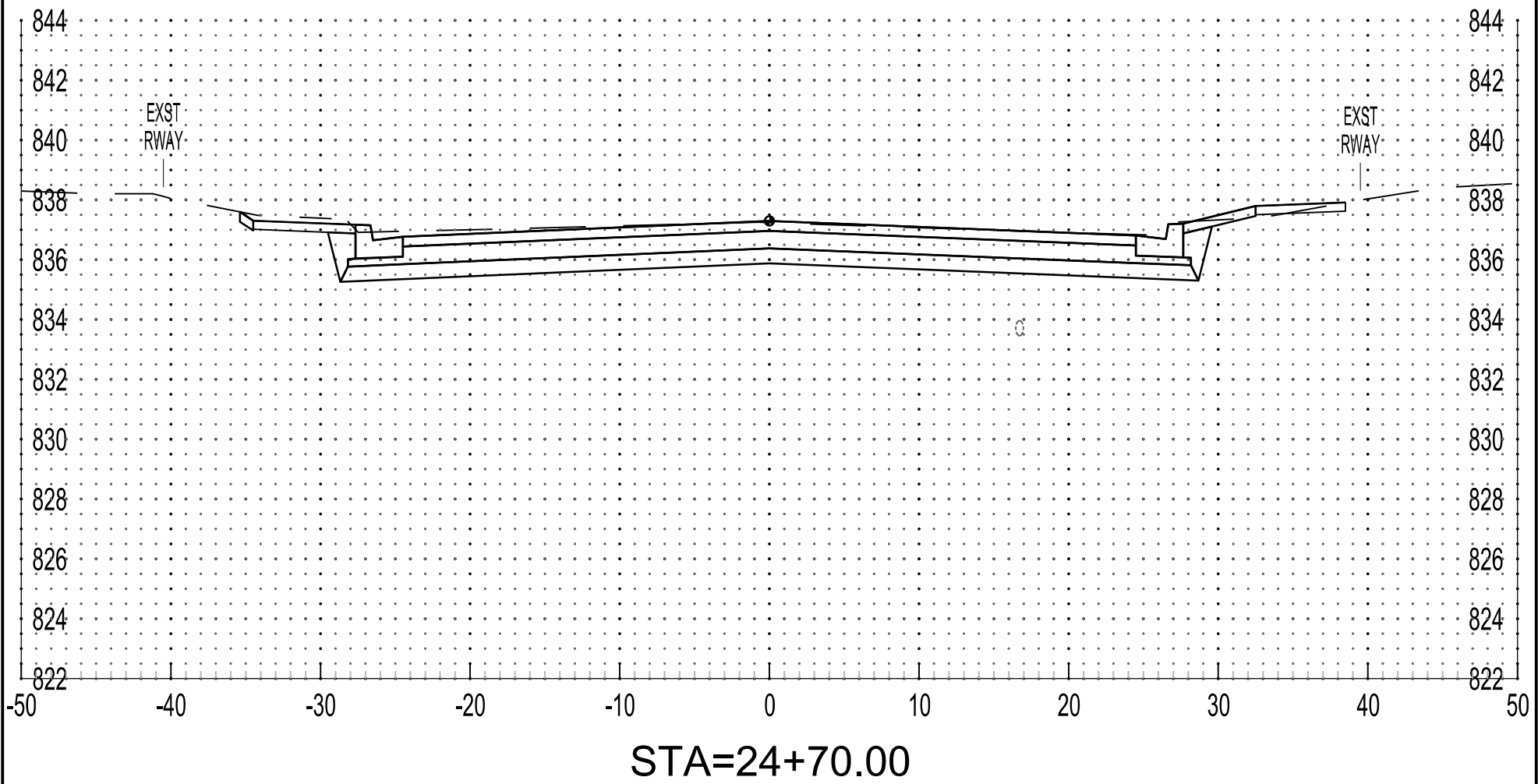
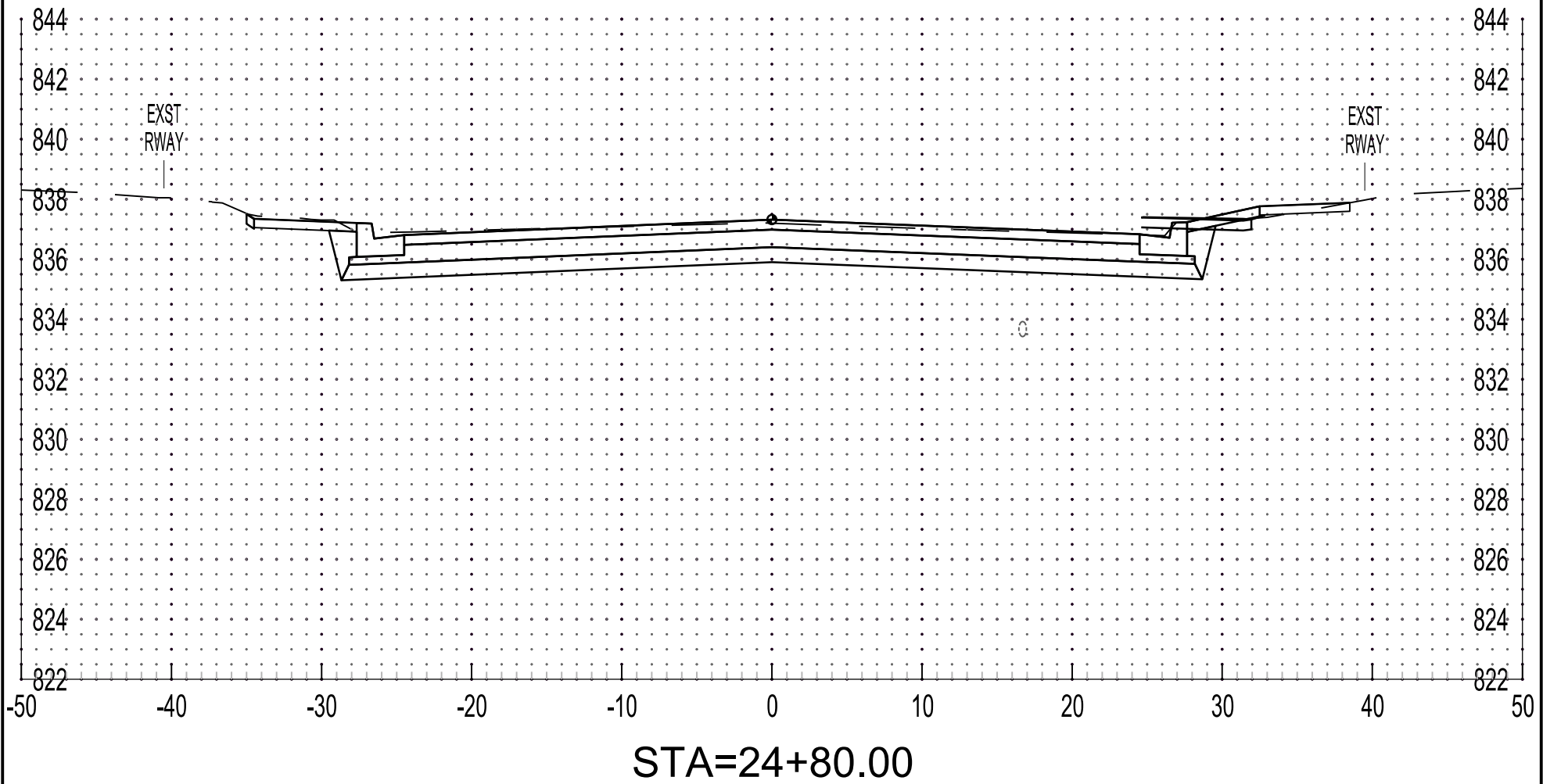
Change numbers
to 81 OF 96



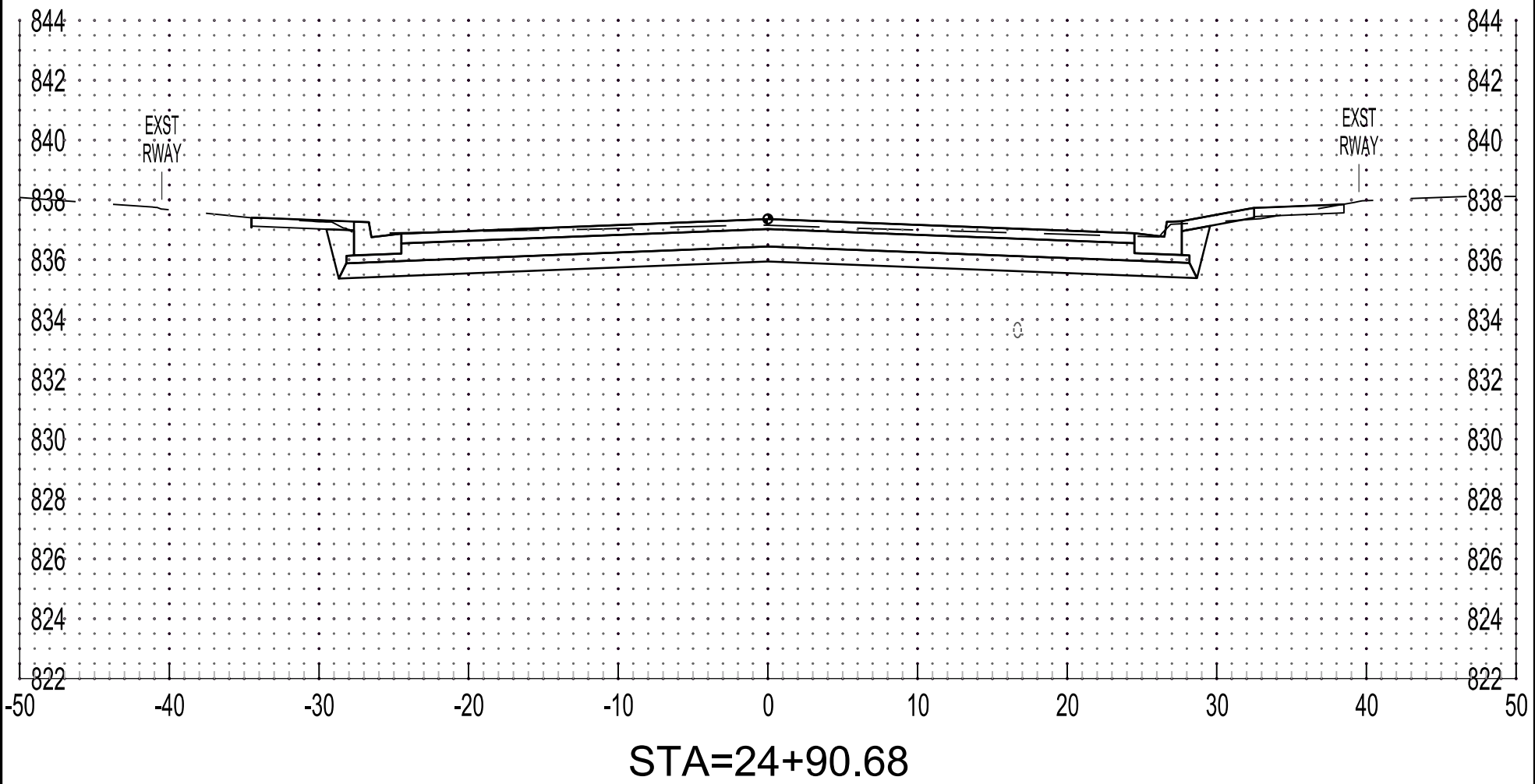
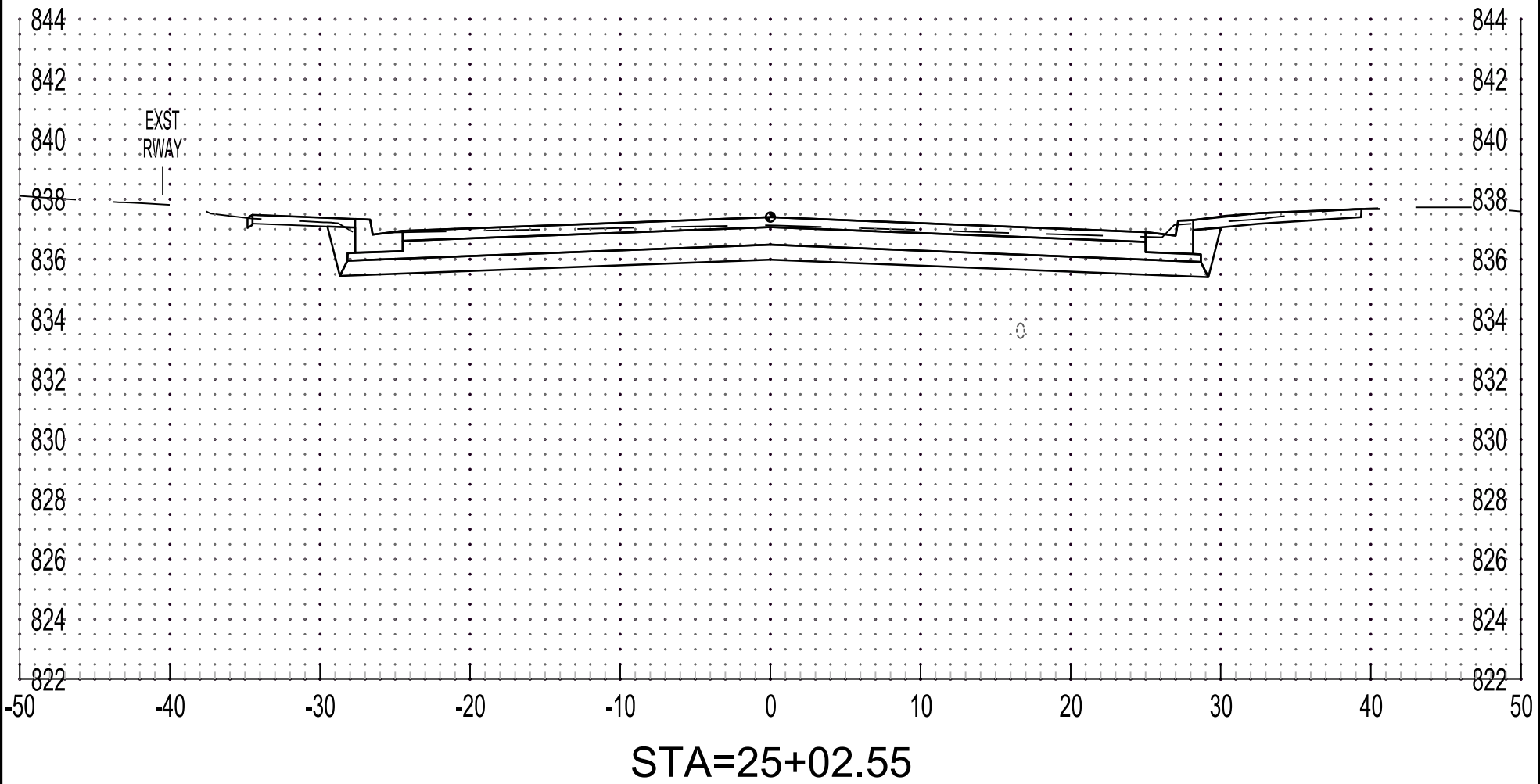
Change numbers
to 82 OF 96



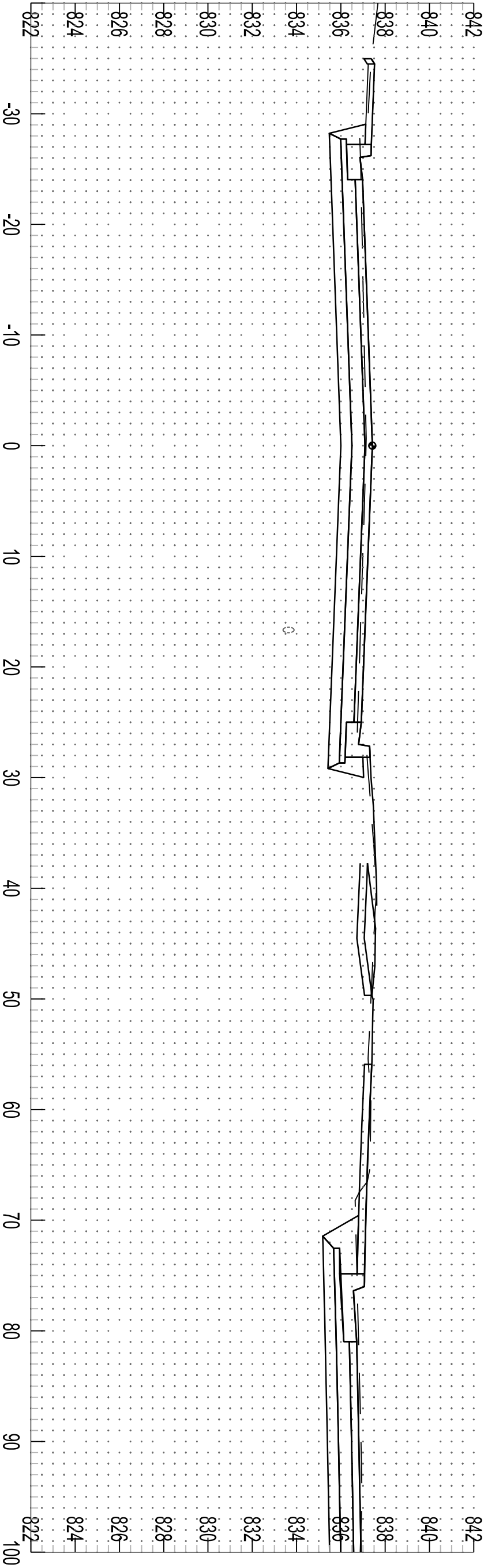
Change numbers
to 83 OF 96



Change numbers
to 84 OF 96



Change numbers
to 85 OF 96



STA=25+07.12

Change numbers
to 86 OF 96

X34
OF
X44

0

5

10

HORIZONTAL SCALE IN FEET
SCALE 10


0

2

4

VERTICAL SCALE
IN FEET
SCALE 5

| NO. | DATE | DRW | CKD | APP | REVISION |
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CROSS SECTIONS

MINNEAPOLIS

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PUBLIC WORKS

DRW: HRV

DATE: 05/26/15

CHK: HRV

DATE:

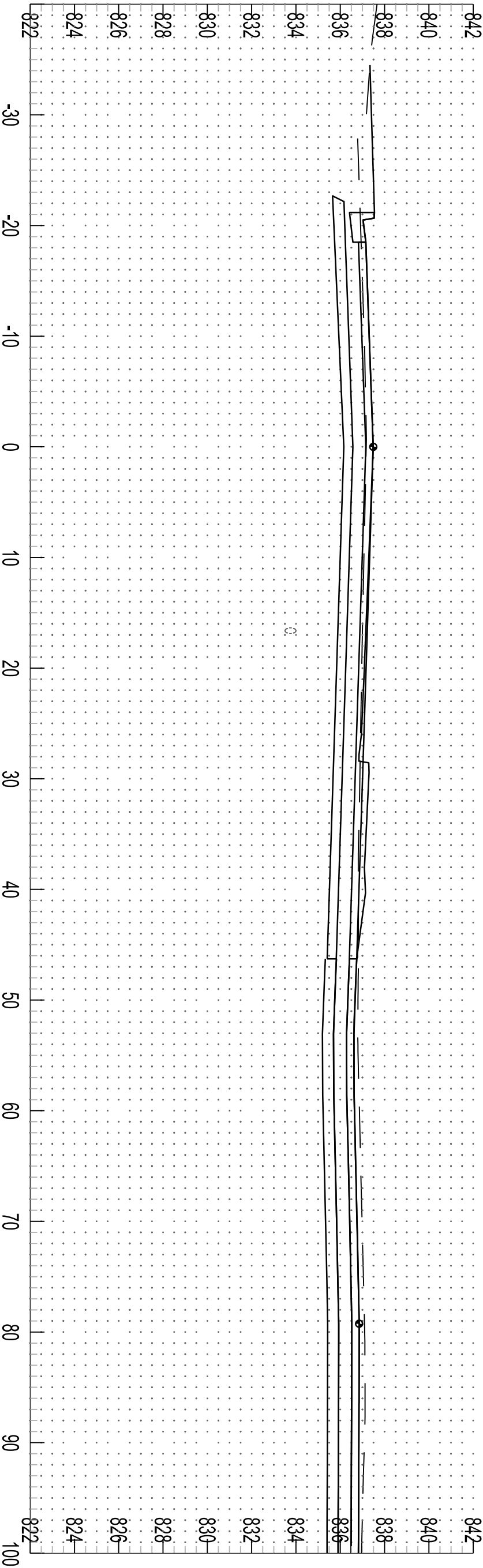
APP: BJW

DATE:

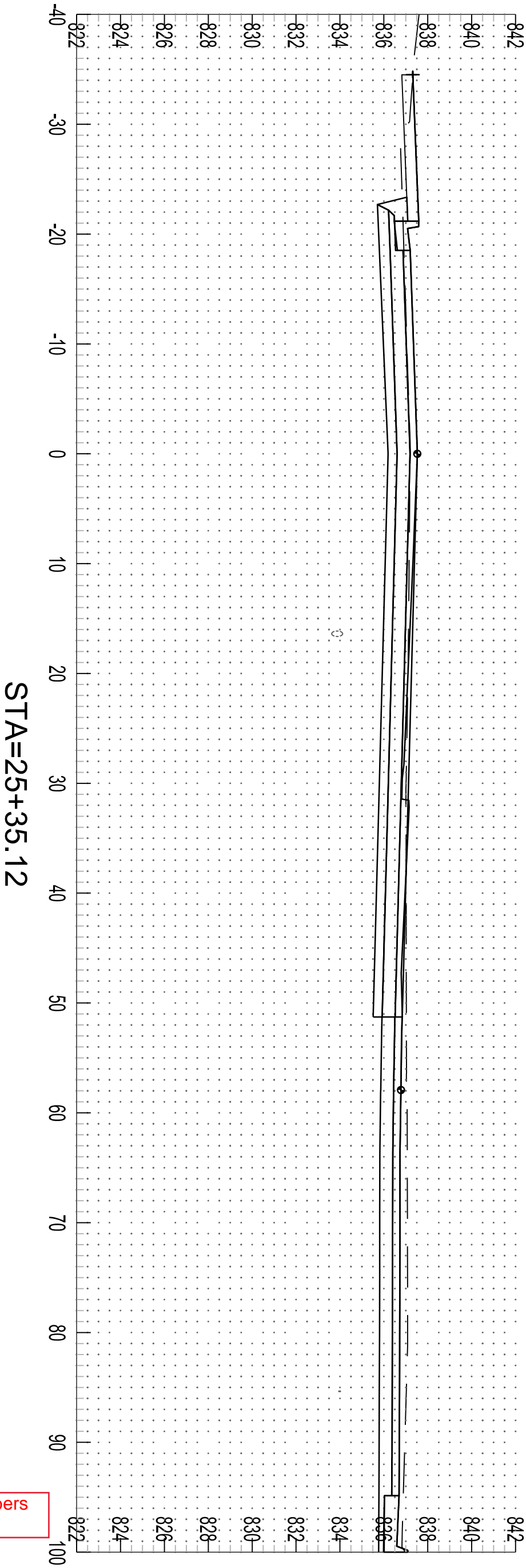
MINNEHAHA AVE 26TH TO 24TH

L.P. 600D 6754

S.A.P. 141-191-009



Change numbers
to 87 OF 96



STA=25+35.12

Change numbers
to 88 OF 96

X36
OF
X44

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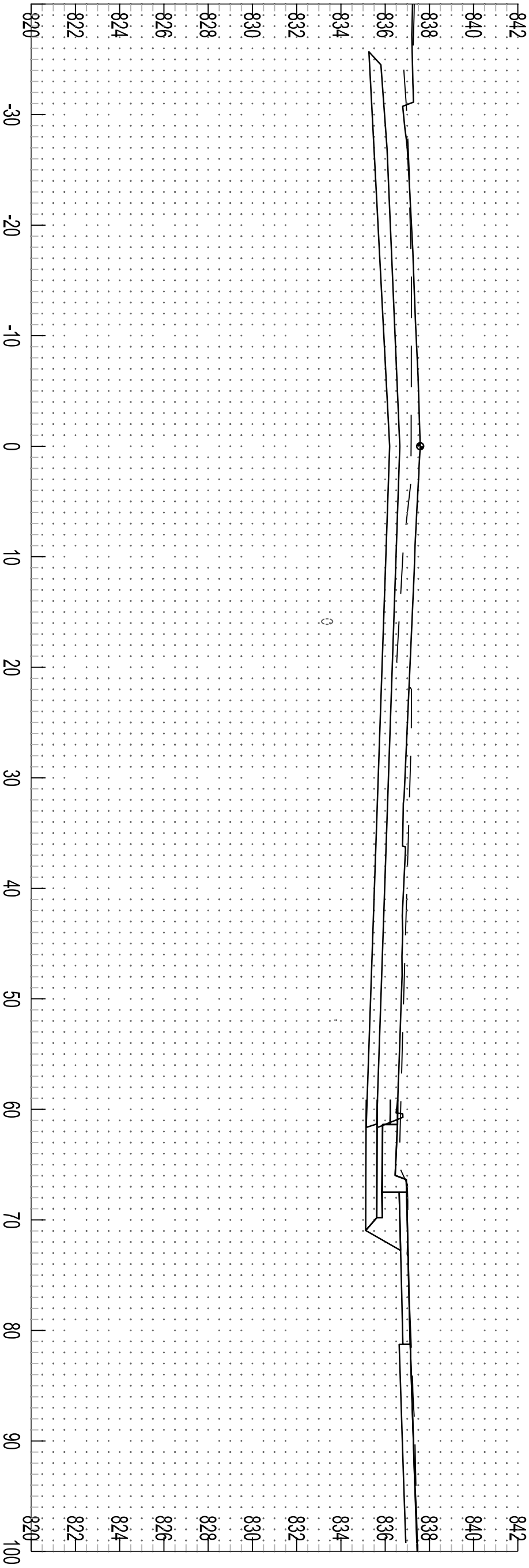
MINNEAPOLIS
DEPARTMENT OF
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| APP: BJW | DATE: |

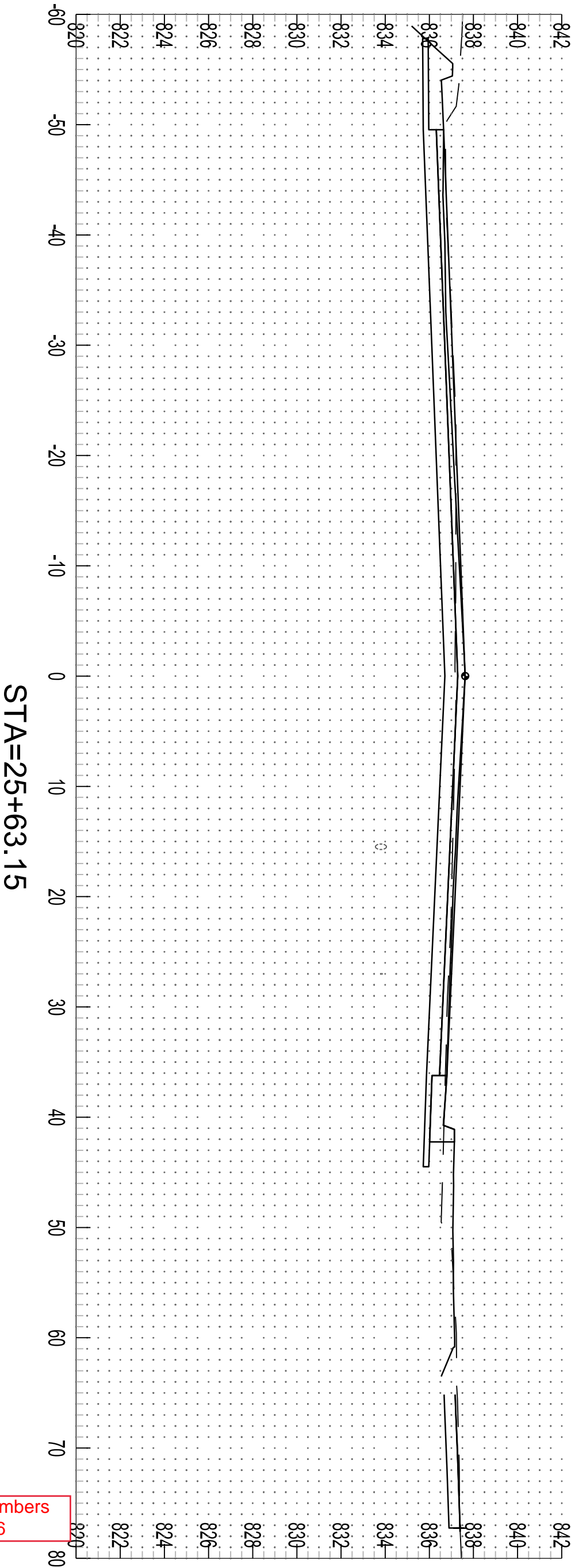
MINNEHAHA AVE 26TH TO 24TH

L.P. 600D 6754

S.A.P. 141-191-009



Change numbers
to 89 OF 96



Change numbers
to 90 OF 96

X38
OF
X44

HORIZONTAL SCALE IN FEET
SCALE 10

VERTICAL SCALE
IN FEET
SCALE 5

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MINNEAPOLIS
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PUBLIC WORKS

DRW: HRV

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APP: BJW

DATE: 05/26/15

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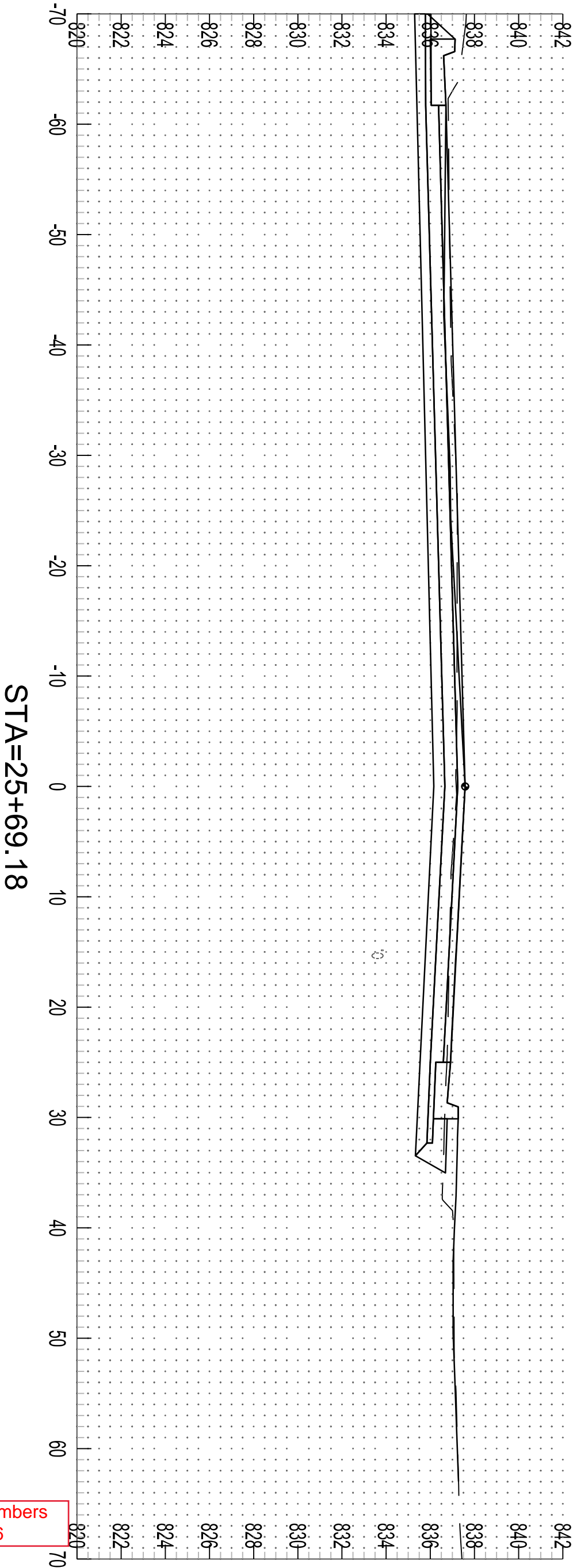
DATE:

CROSS SECTIONS

MINNEHAHA AVE 26TH TO 24TH

L.P. 600D 6754

S.A.P. 141-191-009



Change numbers
to 91 OF 96

X39
OF
X44

HORIZONTAL SCALE IN FEET
SCALE 10

VERTICAL SCALE
IN FEET
SCALE 5

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MINNEAPOLIS
DEPARTMENT OF
PUBLIC WORKS

DRW: HRV

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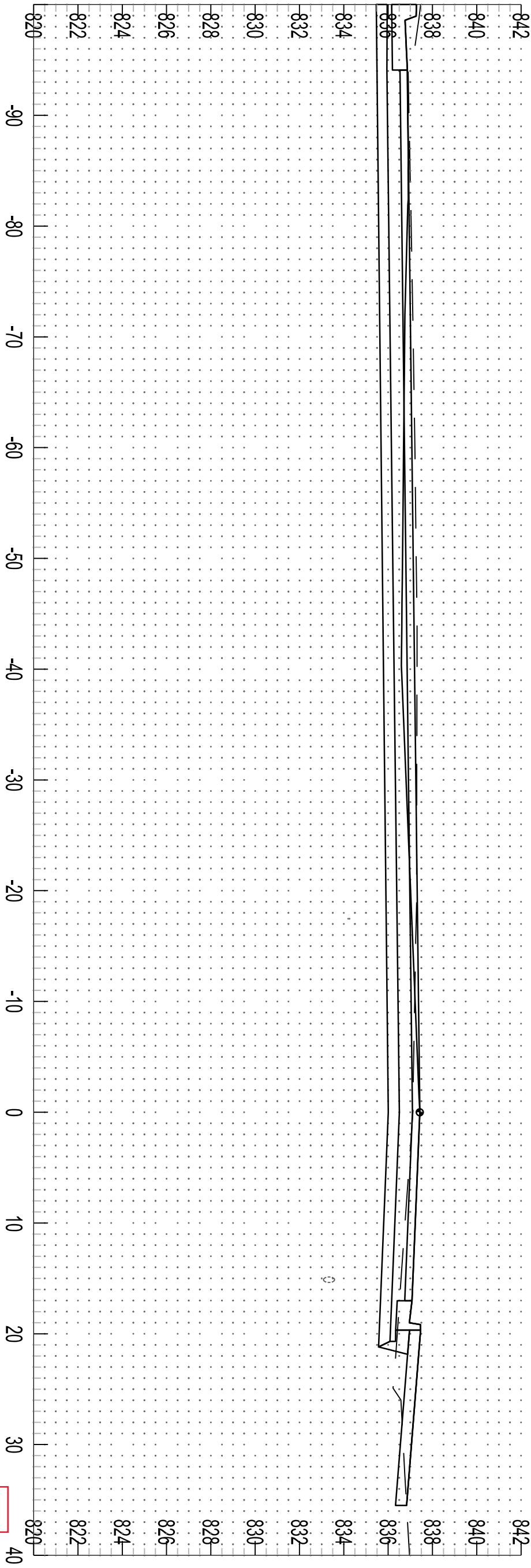
CROSS SECTIONS

MINNEHAHA AVE 26TH TO 24TH

L.P. 600D 6754

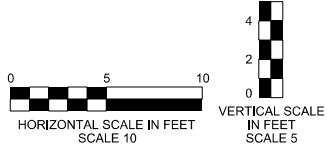
S.A.P. 141-191-009

STA=25+85.23



Change numbers
to 92 OF 96

X40
OF
X44



| NO. | DATE | DRW | CKD | APP | REVISION |
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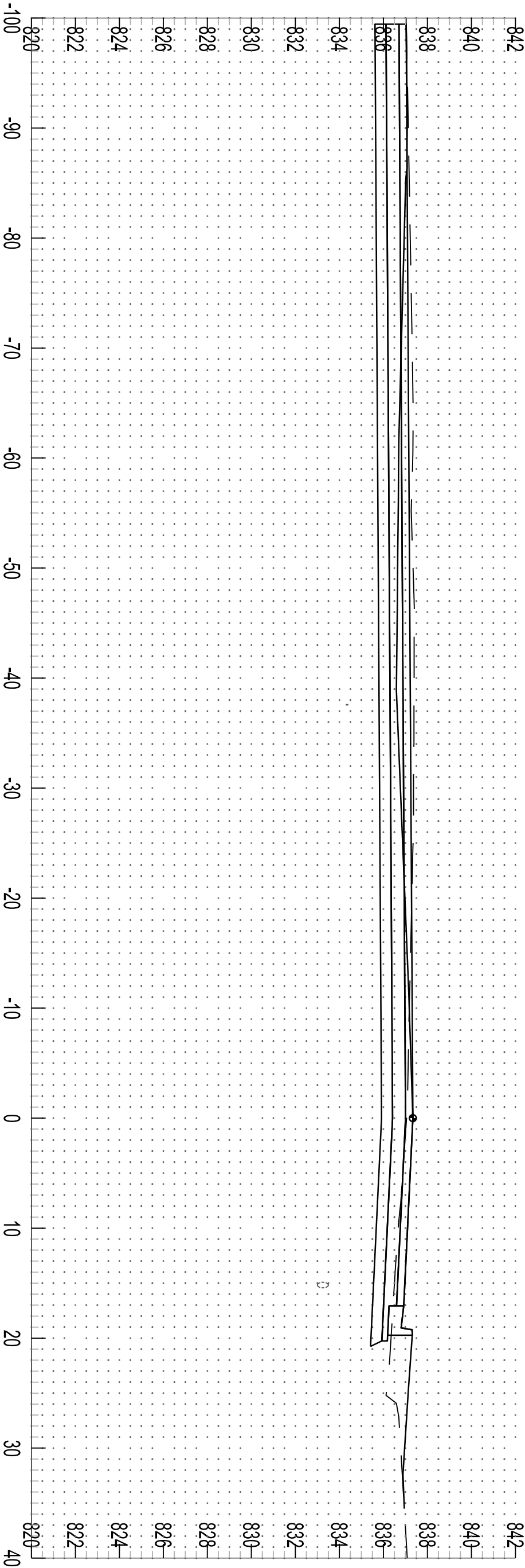
MINNEAPOLIS
DEPARTMENT OF
PUBLIC WORKS

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| DRW: HRV | DATE: 05/26/15 |
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| APP: BJW | DATE: |

MINNEHAHA AVE 26TH TO 24TH

L.P. 600D 6754 S.A.P. 141-191-009

STA=25+95.22



Change numbers
to 93 OF 96

X41
OF
X44

HORIZONTAL SCALE IN FEET
SCALE 10

VERTICAL SCALE
IN FEET
SCALE 5

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MINNEAPOLIS
DEPARTMENT OF
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| APP: BJW | DATE: |

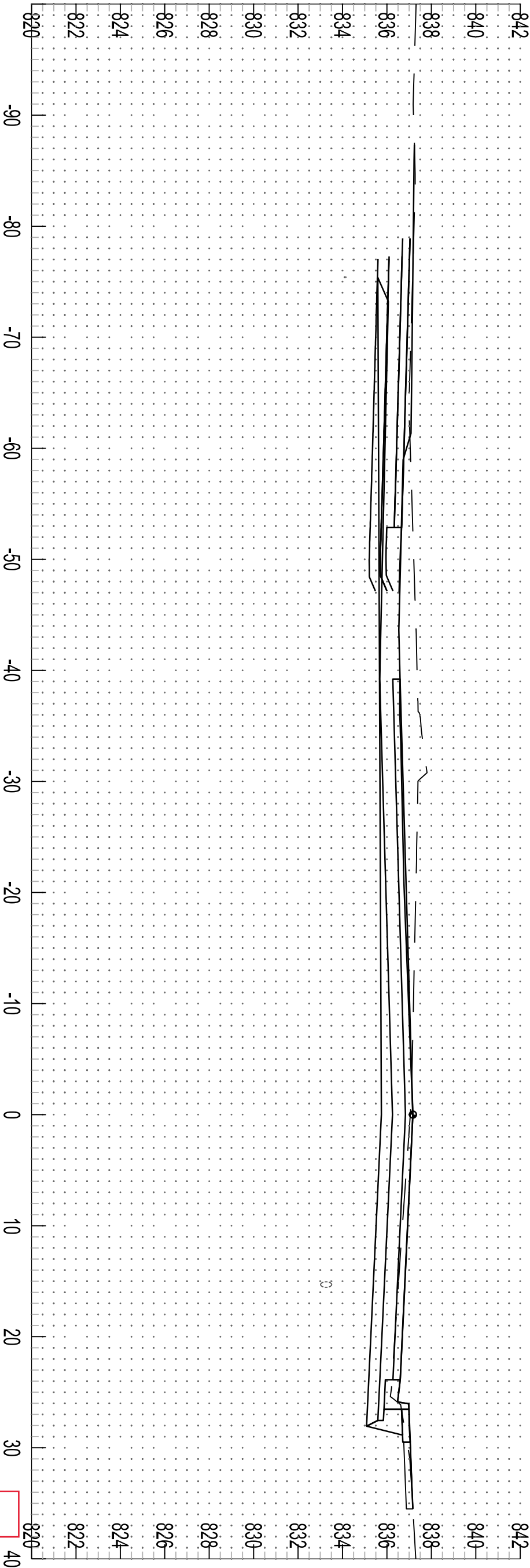
CROSS SECTIONS

MINNEHAHA AVE 26TH TO 24TH

L.P. 600D 6754

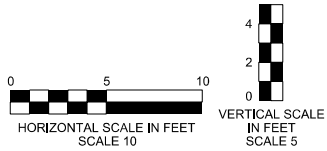
S.A.P. 141-191-009

STA=26+14.00



Change numbers
to 94 OF 96

X42
OF
X44



| NO. | DATE | DRW | CKD | APP | REVISION |
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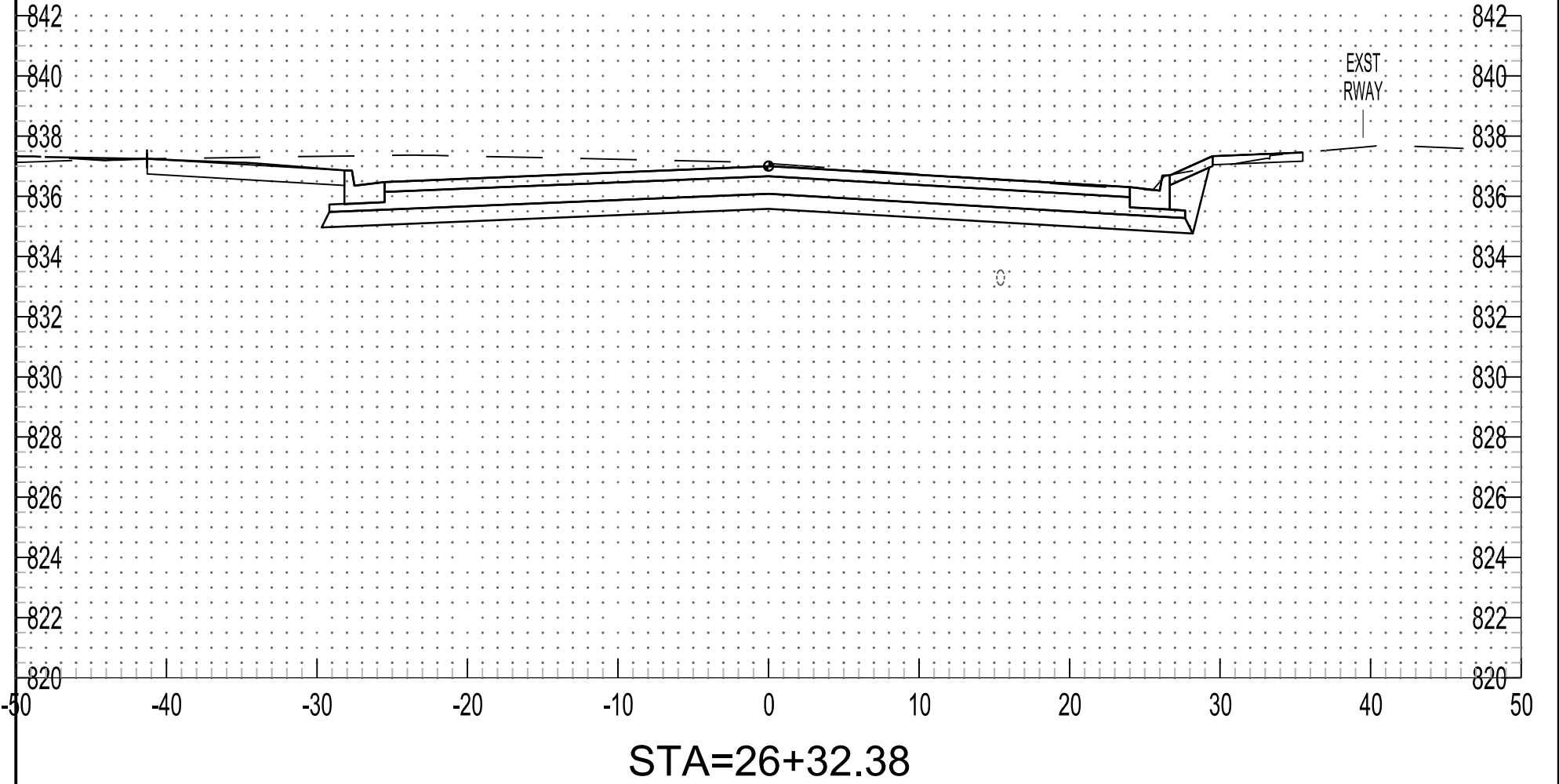
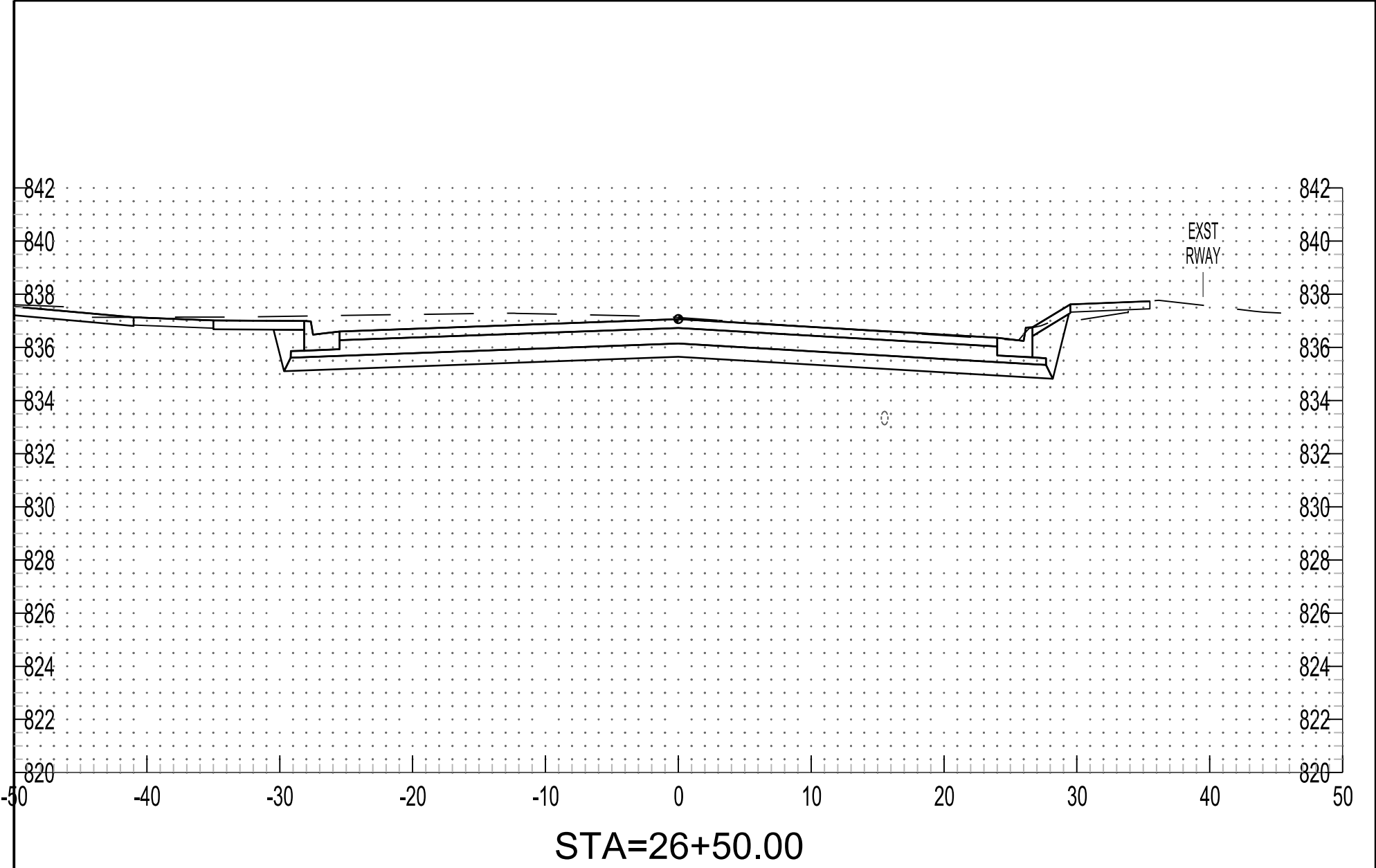


MINNEAPOLIS
DEPARTMENT OF
PUBLIC WORKS

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| DRW: HRV | DATE: 05/26/15 |
| CHK: HRV | DATE: |
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MINNEHAHA AVE 26TH TO 24TH

L.P. 600D 6754 S.A.P. 141-191-009



Change numbers
to 95 OF 96

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|---|---|-----|------|-----|-----|-----|----------|----------------|---|----------|----------------|----------------------------|--------------------|
| <div>X44</div> <div>OF</div> <div>X43</div> | <div><div><div>0510</div><div>HORIZONTAL SCALE IN FEET SCALE 10</div></div><div><div>042</div><div>VERTICAL SCALE IN FEET SCALE 5</div></div></div> | NO. | DATE | DRW | CKD | APP | REVISION | CROSS SECTIONS | | | | MINNEHAHA AVE 26TH TO 24TH | |
| | | | | | | | | | <div><div><div><div></div><div></div></div><div>Minneapolis</div><div>City of Lakes</div></div><div><div>MINNEAPOLIS</div><div>DEPARTMENT OF</div><div>PUBLIC WORKS</div></div></div> | DRW: HRV | DATE: 05/26/15 | L.P. 600D 6754 | S.A.P. 141-191-009 |
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