

PROJECT ID: 2704-09-71
WITH: N/A

COUNTY: RACINE

ORDER OF SHEETS

Section No. 1	Title
Section No. 2	Typical Sections and Details
Section No. 3	Estimate of Quantities
Section No. 3	Miscellaneous Quantities
Section No. 4	Right of Way Plat
Section No. 5	Plan and Profile
Section No. 6	Standard Detail Drawings
Section No. 7	Sign Plates
Section No. 8	Structure Plans
Section No. 9	Computer Earthwork Data
Section No. 9	Cross Sections

TOTAL SHEETS =



DESIGN DESIGNATION

A.A.D.T.	2018	=	1,020
A.A.D.T.	2038	=	1,950
D.H.V.	2038	=	193
D.D.		=	53/47
T.		=	1.2% (AM Peak), 7.8% (PM Peak)
DESIGN SPEED		=	40 MPH WEST CPRR, 50 MPH EAST CPRR
ESALS		=	X,XXX,XXX

CONVENTIONAL SYMBOLS

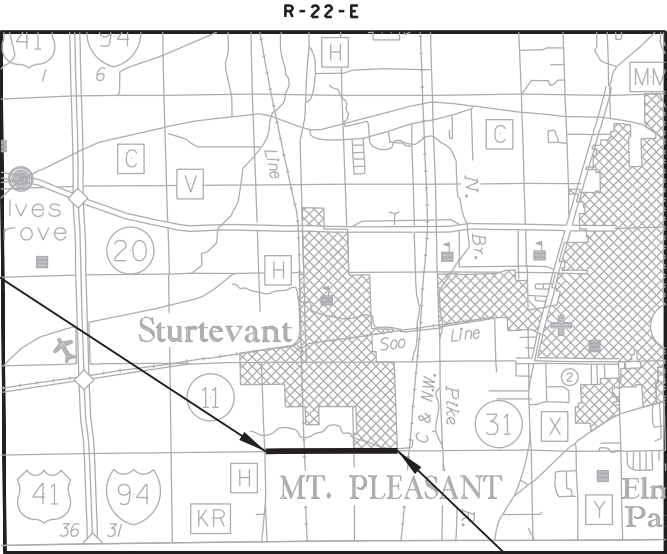
PLAN	
CORPORATE LIMITS	
PROPERTY LINE	
LOT LINE	
LIMITED HIGHWAY EASEMENT	
EXISTING RIGHT OF WAY	
PROPOSED OR NEW R/W LINE	
SLOPE INTERCEPT	
REFERENCE LINE	
EXISTING CULVERT	
PROPOSED CULVERT (Box or Pipe)	
COMBUSTIBLE FLUIDS	
MARSH AREA	
WOODED OR SHRUB AREA	

PROFILE	
GRADE LINE	
ORIGINAL GROUND	
MARSH OR ROCK PROFILE (To be noted as such)	
SPECIAL DITCH	
GRADE ELEVATION	
CULVERT (Profile View)	
UTILITIES	
ELECTRIC	
FIBER OPTIC	
GAS	
SANITARY SEWER	
STORM SEWER	
TELEPHONE	
WATER	
UTILITY PEDESTAL	
POWER POLE	
TELEPHONE POLE	

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
PLAN OF PROPOSED IMPROVEMENT
BRAUN ROAD
CTH H TO WILLOW ROAD
LOCAL STREET
RACINE COUNTY

STATE PROJECT NUMBER
2704-09-71

BEGIN PROJECT
STA 156BRE+29.09
X = 604752.0149
Y = 170209.4323



END PROJECT
STA 232BRE+07.70
X=612329.0147
Y=170076.2162

LAYOUT
SCALE 0 1.0 MI.

TOTAL NET LENGTH OF CENTERLINE = 1.435 MI.

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF NAVD88 (1991).

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COORDINATE REFERENCE SYSTEM (WisCRS), RACINE COUNTY, NAD83 (1997).

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
2704-09-71		

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
FEBRUARY 5, 2019

HNTB
11414 W. PARK PLACE
SUITE 300
MILWAUKEE, WI 53224
(414) 359-2300

(Date) (Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY	
Surveyor	KAPUR
Designer	HNTB
Project Manager	STEVE HOFF
Regional Examiner	WISDOT SE REGION
Regional Supervisor	MANOJOY NAG
C.O. Examiner	

APPROVED FOR THE DEPARTMENT

DATE: (Signature)

E

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ORDER OF SECTION 2 DETAIL SHEETS

- GENERAL NOTES
- PROJECT OVERVIEW
- TYPICAL SECTIONS
- CONSTRUCTION DETAILS
- CURB RAMP DETAILS
- REMOVAL PLAN
- PLAN DETAILS
- PAVING GRADES
- DISTURBED WETLAND PLAN
- EROSION CONTROL
- STORM SEWER
- POND DETAILS
- SIGNING REMOVAL PLAN
- PERMANENT SIGNING PLAN
- PAVEMENT MARKING PLAN
- TRAFFIC CONTROL
- DETOUR PLAN
- HAUL ROUTES
- ALIGNMENT PLAN
- CONTROL AND BENCHMARKS

GENERAL NOTES

THE CONTRACTOR SHALL CONTACT THE UTILITIES AND DIGGERS HOTLINE TO LOCATE AND FIELD VERIFY UTILITIES PRIOR TO THE START OF WORK.

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE.

THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN. ANY LOCAL, MUNICIPAL OR OTHER UTILITY THAT IS NOT A MEMBER OF DIGGERS HOTLINE SHALL BE CONTACTED SEPARATELY.

CURB AND GUTTER GRADES ARE GIVEN TO THE FLANGE. CURB AND GUTTER RADII DIMENSIONS ARE MEASURED TO THE FLANGE LINE UNLESS OTHERWISE NOTED.

NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT APPROVAL OF THE ENGINEER.

THE ENGINEER SHALL ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH THE EXISTING UTILITY FACILITIES.

PROTECT INLETS WITH PROPER INLET PROTECTION AS PER DETAIL AT LOCATIONS EXHIBITING RISK OF BEING IMPACTED BY CONSTRUCTION OPERATIONS AS SHOWN ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.

THE EXACT LOCATION AND WIDTH OF TEMPORARY ACCESS FOR DRIVEWAYS WILL BE DETERMINED BY THE ENGINEER.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESHAPING AND SEEDING ANY PREVIOUSLY GRASSED AREAS WHICH ARE DISTURBED BY ANY OPERATION OUTSIDE OF THE NORMAL CONSTRUCTION LIMITS AT THE CONTRACTOR'S EXPENSE OR AS OTHERWISE DIRECTED BY THE FIELD ENGINEER.

RE-TOPSOIL OF GRADED AREAS, AS DESIGNATED BY THE ENGINEER, IMMEDIATELY AFTER GRADING IS COMPLETED WITHIN THOSE AREAS. SEED, FERTILIZER, AND MULCH/EROSION MAT TOP-SOILED AREAS, AS DESIGNATED BY THE ENGINEER, WITHIN FIVE (5) CALENDAR DAYS AFTER PLACEMENT OF TOPSOIL. IF GRADED AREAS ARE LEFT EXPOSED FOR MORE THAN FIVE (5) CALENDAR DAYS, SEED AND MULCH THOSE AREAS WITH TEMPORARY SEED AND MULCH.

STOCKPILE EXCESS MATERIAL OR SPOILS ON UPLAND AREAS AWAY FROM WETLANDS, FLOODPLAINS AND WATERWAYS. STOCKPILED SOIL SHALL BE PROTECTED AGAINST EROSION. IF STOCKPILED MATERIAL IS LEFT FOR MORE THAN FOURTEEN (14) CALENDAR DAYS, SEED THE STOCKPILE WITH TEMPORARY SEED AND MULCH.

TEMPORARY STORAGE OF ANY EXCAVATED MATERIAL OR EQUIPMENT WITHIN WETLANDS OR PROTECTED AREAS IS NOT ALLOWED. WETLAND BOUNDARIES ARE SHOWN ON PLAN SHEETS.

WHEN THE QUANTITY OF HMA PAVEMENT OR BASE AGGREGATE IS MEASURED FOR PAYMENT BY THE TON, THE DEPTH OR THICKNESS OF THE LAYER SHOWN ON THE PLAN IS THE MINIMUM REQUIRED AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.

GENERAL NOTES CONT'D

BROKEN CONCRETE CONTAINING STEEL SHALL NOT BE USED AS RIPRAP OR HEAVY RIPRAP.

REMOVING CONCRETE INCLUDES ANY MESH OR REINFORCEMENT THAT MAY BE PART OF THE PAVEMENT STRUCTURE. EXISTING PAVEMENT DEPTHS ARE BASED ON AS-BUILT DATA AND MAY VARY IN THE FIELD.

PRIOR TO ORDERING DRAINAGE PIPES AND STRUCTURES, THE CONTRACTOR SHALL VERIFY RELATED DRAINAGE INFORMATION IN THE PLAN AND PROVIDE DOCUMENTATION TO THE ENGINEER IN ACCORDANCE WITH THE SPECIFICATIONS. THIS ALSO INCLUDES VERIFICATION OF INVERT ELEVATIONS AT ALL PROPOSED STORM SEWER CONNECTION POINTS TO EXISTING SYSTEMS.

INLET AND DISCHARGE ELEVATIONS FOR DRAINAGE STRUCTURES SHOWN ON THE PLAN SHALL BE ADJUSTED TO FIT FIELD CONDITIONS WITH PERMISSION FROM THE ENGINEER.

CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER AND SEWRPC AT LEAST TWO (2) WEEKS PRIOR TO WORK NEAR ANY PUBLIC SURVEY MONUMENT.

FOR SECTION CORNER REPLACEMENT CONTACT JOHN WASHBURN WITH SEWRPC AT 414-218-2866 OR JWASHBURN@SEWRPC.ORG AT LEAST TWO WEEKS BEFORE STARTING CONSTRUCTION OPERATIONS. ALL HOLES OR OPENINGS BELOW SUBGRADE RESULTING FROM ABANDONMENT OR REMOVAL OF EXISTING STRUCTURES SHALL BE FILLED WITH GRANULAR BACKFILL, AS DIRECTED BY THE ENGINEER.

PROVIDE TEMPORARY POSITIVE DRAINAGE ON THE NEWLY INSTALLED STORM SEWER SYSTEM UNTIL IT IS ABLE TO EFFECTIVELY DRAIN TO ITS INTENDED OR PLANNED OUTFALL. ANY WORK REQUIRED TO COMPLETE THIS DRAINAGE IS INCIDENTAL TO THE BID ITEMS FOR STORM SEWER.

A SAWED JOINT IS REQUIRED WHERE NEW HMA PAVEMENT MEETS EXISTING ASPHALTIC CONCRETE SURFACE.

THE EROSION CONTROL FEATURES AS SHOWN IN THE PLANS ARE AT SUGGESTED LOCATIONS. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.

LOCATIONS OF DRAINTILE ON THE PLAN ARE BASED ON AS-BUILT OR PROPERTY OWNER INTERVIEWS, DRAINTILE EXPLORATION ITEM IS TO BE USED TO VERIFY THE EXACT SIZE AND LOCATION.

FERTILIZER SHALL NOT BE USED WITHIN 20 FEET OF NAVIGABLE WATERWAYS OR WETLANDS.

STATIONING, DISTANCES AND OFFSETS FOR SIGNS SHOWN ON THE PLANS ARE APPROXIMATE AND THE LOCATIONS OF SIGNS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

ABBREVIATIONS

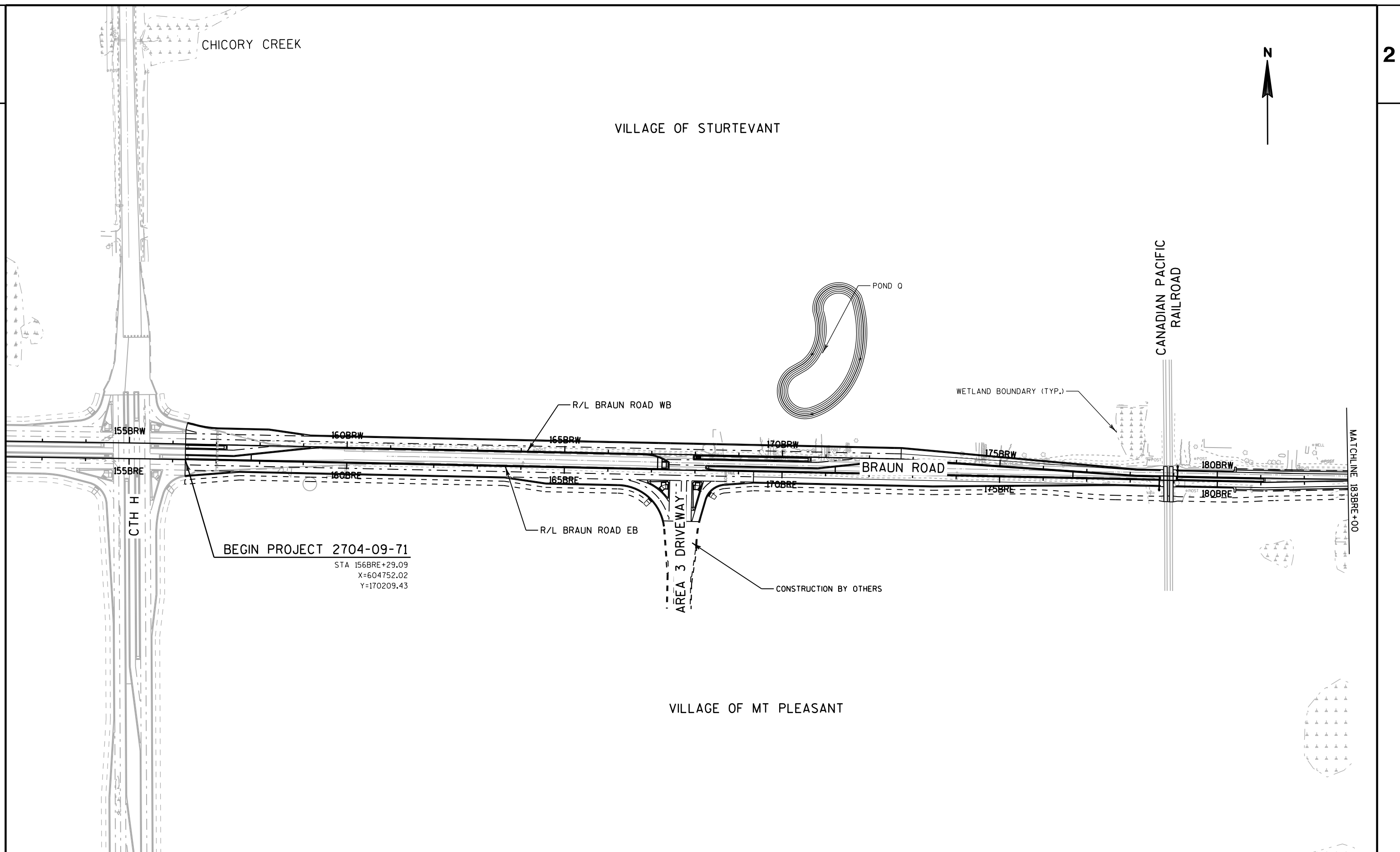
AECPRC	APRON ENDWALL CULVERT PIPE REINFORCED CONCRETE
AECPRCHE	APRON ENDWALL CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL
AECPSS	APRON ENDWALL CULVERT PIPE SLOPED SECTION
AEW	APRON END WALL
AGG	AGGREGATE
BAD	BASE AGGREGATE DENSE
B/C	BACK OF CURB
BM	BENCH MARK
C&G	CURB AND GUTTER
C/L	CENTER OR CONSTRUCTION LINE
CONC	CONCRETE
CP	CULVERT PIPE
CPCM	CULVERT PIPE CORRUGATED METAL
CPRC	CULVERT PIPE REINFORCED CONCRETE
CPRCHE	CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL
CSD	CONCRETE SURFACE DRAIN
CY	CUBIC-YARD
D	DEGREE OF CURVE
Δ	DELTA
DISCH	DISCHARGE
DWY	DRIVEWAY
EAT	ENERGY ABSORBING TERMINAL
EBS	EXCAVATION BELOW SUBGRADE
EFR	EAST FRONTAGE ROAD
EL	ELEVATION
ESTR	EXISTING SIGN TO REMAIN
FE	FIELD ENTRANCE
FMS	FIXED MESSAGE SIGN
HMA	HOT MIX ASPHALT
INV	INVERT
L	LENGTH OF CURVE
LHF	LEFT HAND FORWARD
LT	LEFT
MIN	MINIMUM
M/L	MATCHLINE

ABBREVIATIONS CONT'D

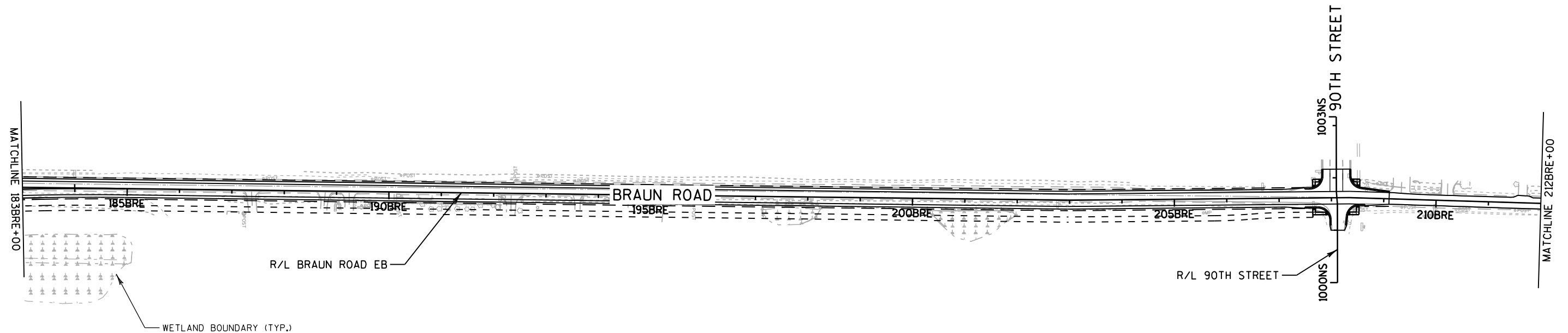
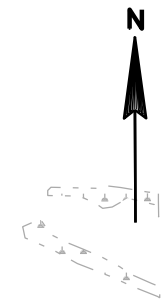
NB	NORTHBOUND
NC	NORMAL CROWN
PAVT	PAVEMENT
PC	POINT OF CURVE
PCC	POINT OF COMPOUND CURVE
PE	PRIVATE ENTRANCE
PGL	PROFILE GRADE LINE
PI	POINT OF INTERSECTION
PLE	PERMANENT LIMITED EASEMENT
PT	POINT OF TANGENT
R	RADIUS OF CURVE
R/L	REFERENCE LINE
R/W	RIGHT OF WAY
RC	REVERSE CROWN
REQD	REQUIRED
RHF	RIGHT HAND FORWARD
RO	RUN OFF LENGTH
RT	RIGHT
SALV	SALVAGED
SB	SOUTHBOUND
SDD	STANDARD DETAIL DRAWINGS
SE	SUPER ELEVATION
SF	SQUARE FOOT
SSPRC	STORM SEWER PIPE REINFORCED CONCRETE
SSPRCHE	STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL
STA	STATION
SY	SQUARE YARD
T	TANGENT LENGTH
TLE	TEMPORARY LIMITED EASEMENT
TYP	TYPICAL
VCL	VERTICAL CURVE LENGTH
VPC	POINT OF VERTICAL CURVE
VPI	POINT OF VERTICAL INTERSECTION
VPT	POINT OF VERTICAL TANGENT
WFR	WEST FRONTAGE ROAD

<u>ALI IDENTIFIER</u>	<u>R/L CALLOUT</u>	<u>ROAD NAME</u>
BRE	R/L BRAUN ROAD EB	BRAUN ROAD EB
BRW	R/L BRAUN ROAD WB	BRAUN ROAD WB
NS	R/L 90TH STREET	90TH STREET

HMA PAVEMENT TYPE	TOTAL PAVEMENT LAYER THICKNESS	LAYERS	NOMINAL MAXIMUM SIZE GRADATION
4 MT 58-28 S 3 MT 58-28 S	5-1/2"	2-1/4" UPPER LAYER 3-1/4" LOWER LAYER	12.5 MM 19.0 MM
4 MT 58-28 S 3 MT 58-28 S	4"	2" UPPER LAYER 2" LOWER LAYER	12.5 MM 19.0 MM



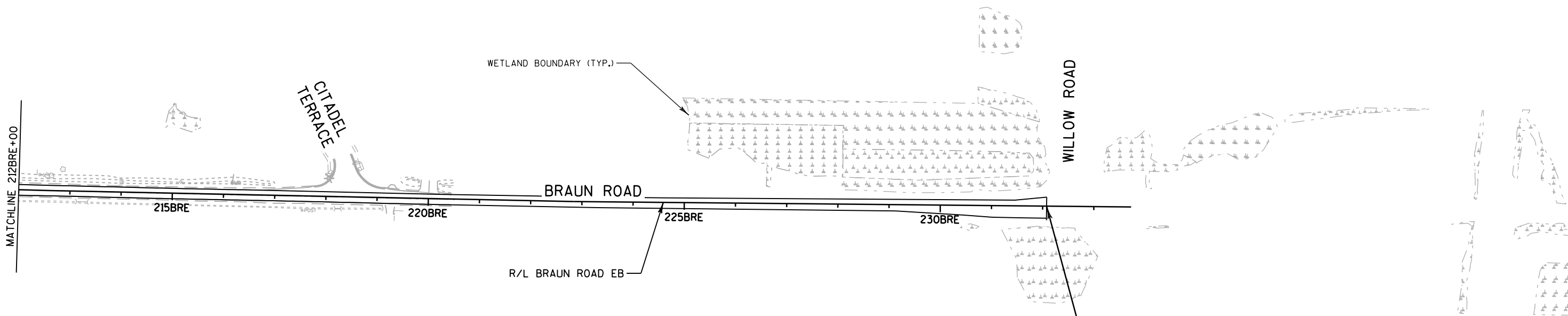
VILLAGE OF STURTEVANT



VILLAGE OF MT PLEASANT

PROJECT NO: 2704-09-71	HWY: BRAUN ROAD	COUNTY: RACINE	PROJECT OVERVIEW	SHEET	E
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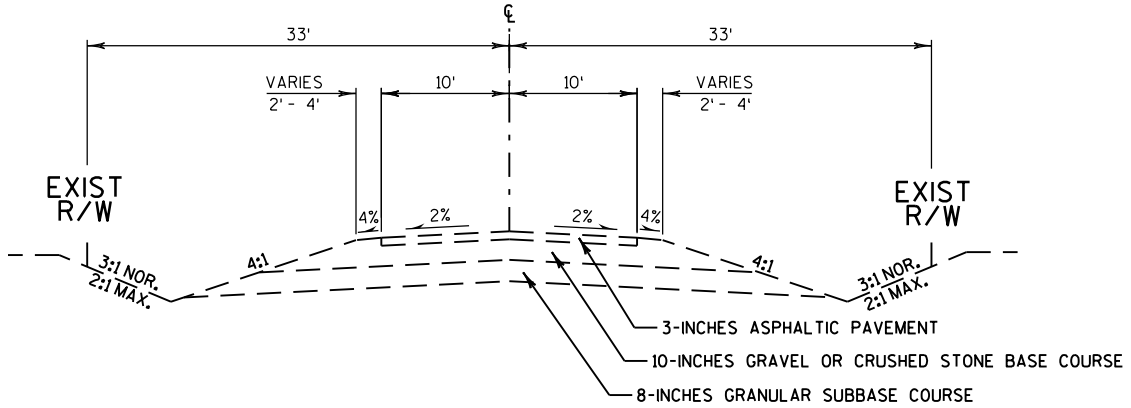
VILLAGE OF STURTEVANT



END PROJECT 2704-09-71

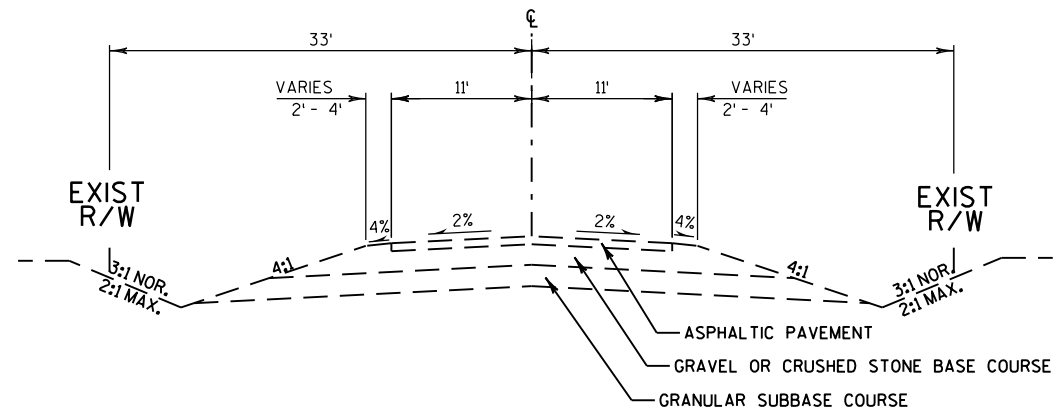
STA 232BRE+07.70
X=612329.01
Y=170076.22

VILLAGE OF MT PLEASANT

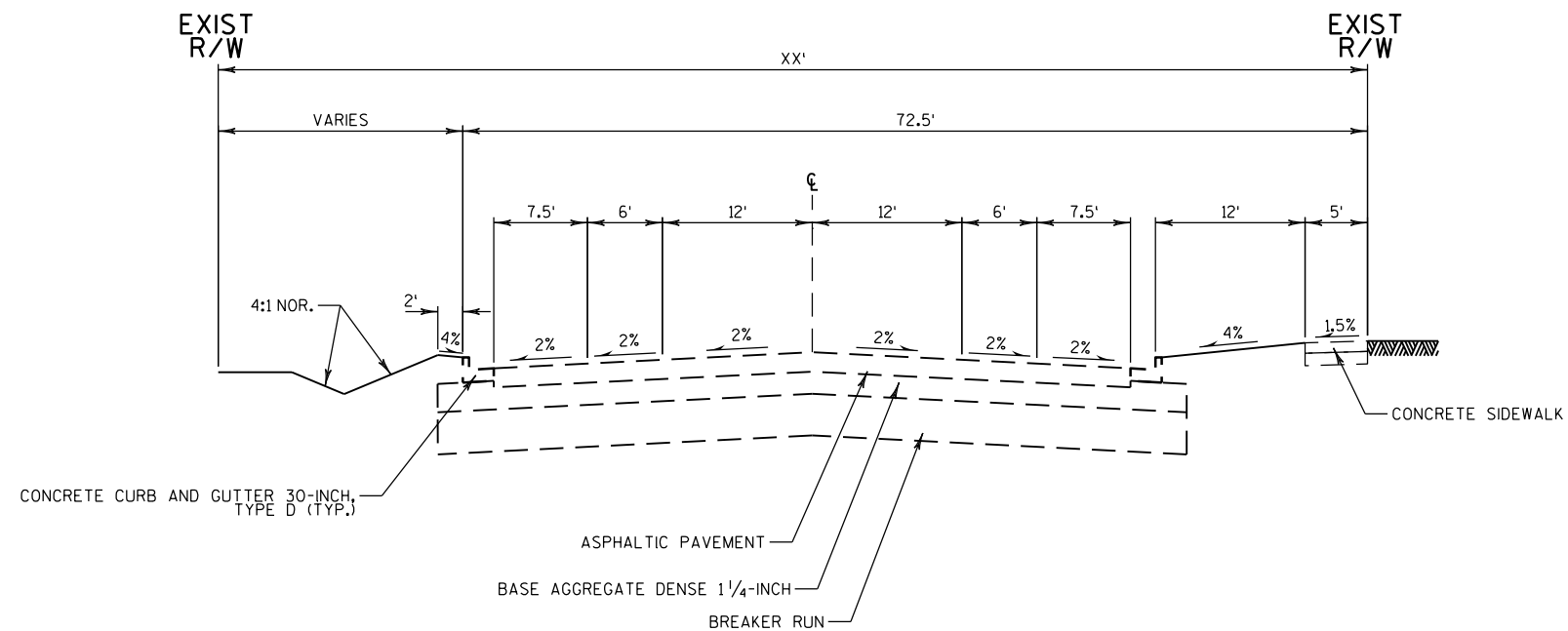


TYPICAL EXISTING SECTION
BRAUN ROAD

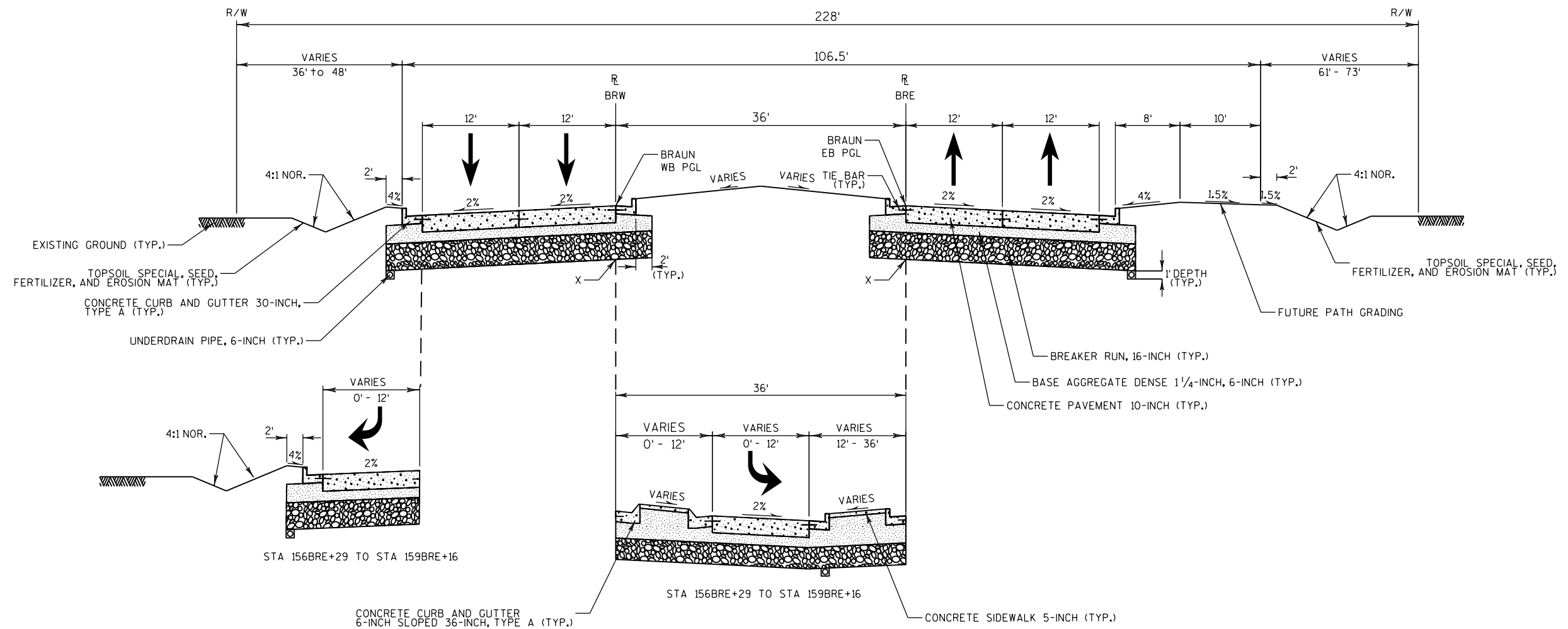
STA 156BRE+29 - STA 232BRE+08



TYPICAL EXISTING SECTION
90TH STREET
STA XXX - STA XXX



TYPICAL EXISTING SECTION
90TH STREET
STA XXX - STA XXX



TYPICAL FINISHED SECTION

BRAUN ROAD

STA 156BRE+29 TO STA 167BRE+50

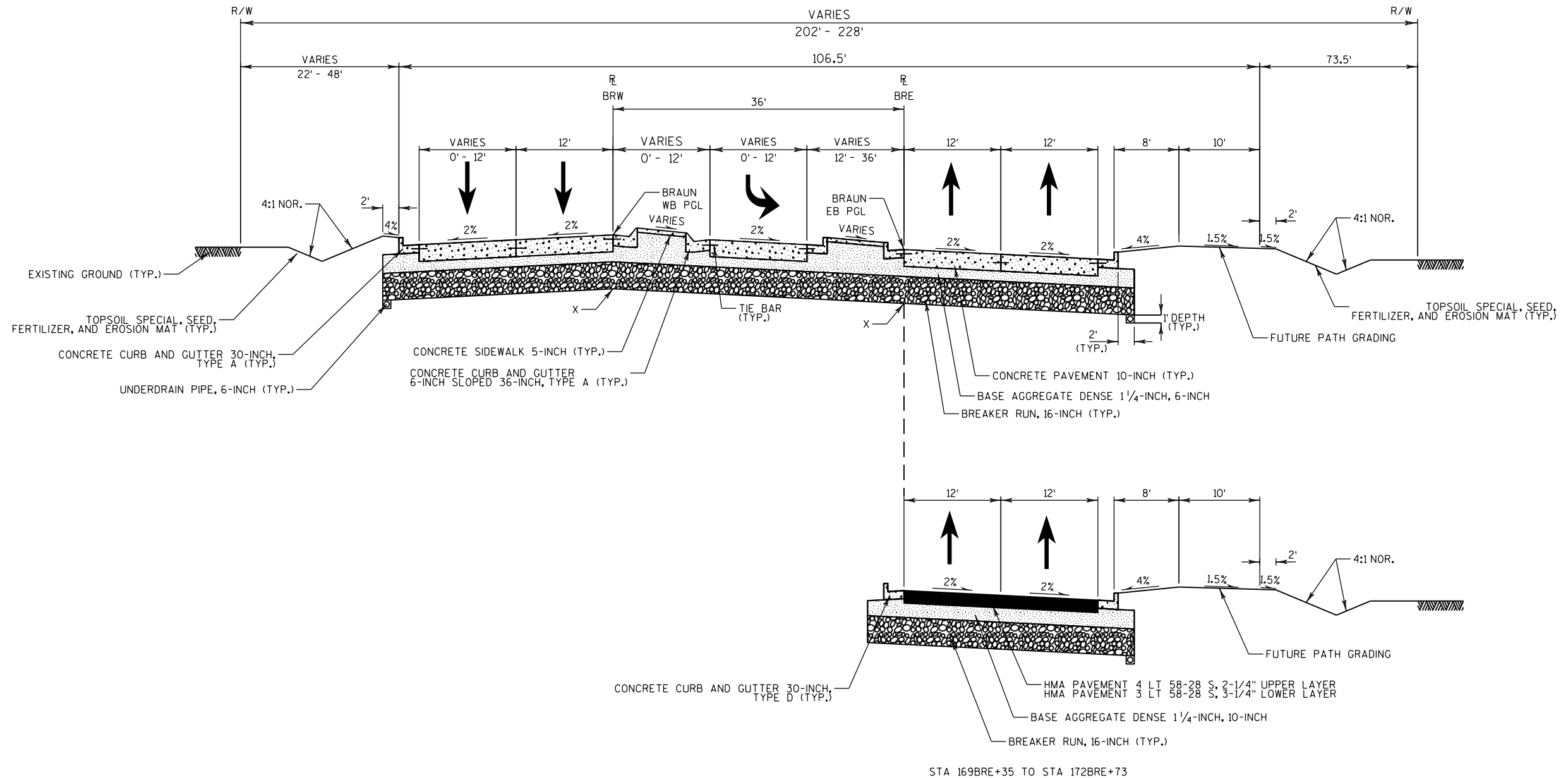
LEGEND

X = POINT REFERRED TO ON CROSS SECTION

PGL = POINT REFERRED TO ON PROFILE AND PIVOT POINT FOR SUPERELEVATION

NOTE:

SEE CROSS SECTIONS FOR DITCH INFORMATION



TYPICAL FINISHED SECTION

BRAUN ROAD

STA 167BRE+50 TO STA 172BRE+73

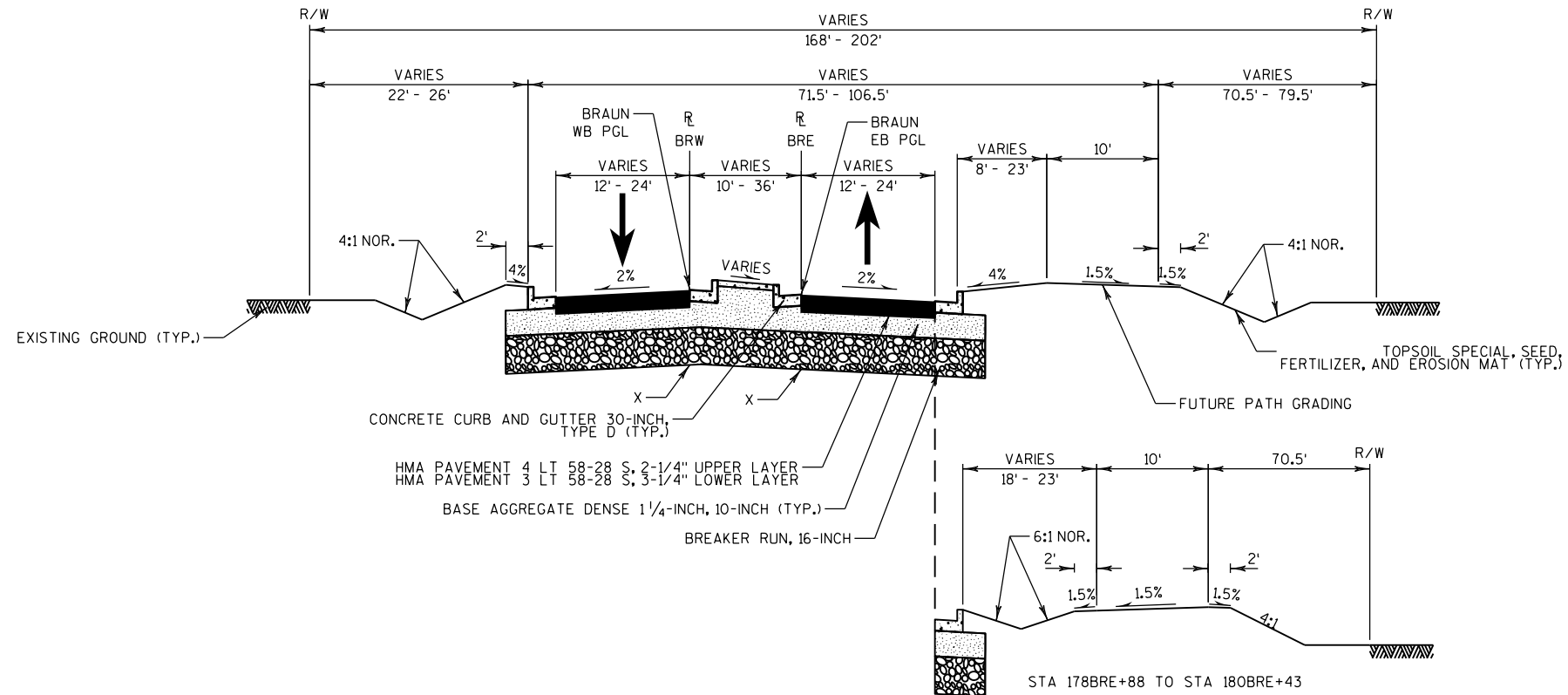
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PGL = POINT REFERRED TO ON PROFILE AND PIVOT POINT FOR SUPERELEVATION

NOTE:

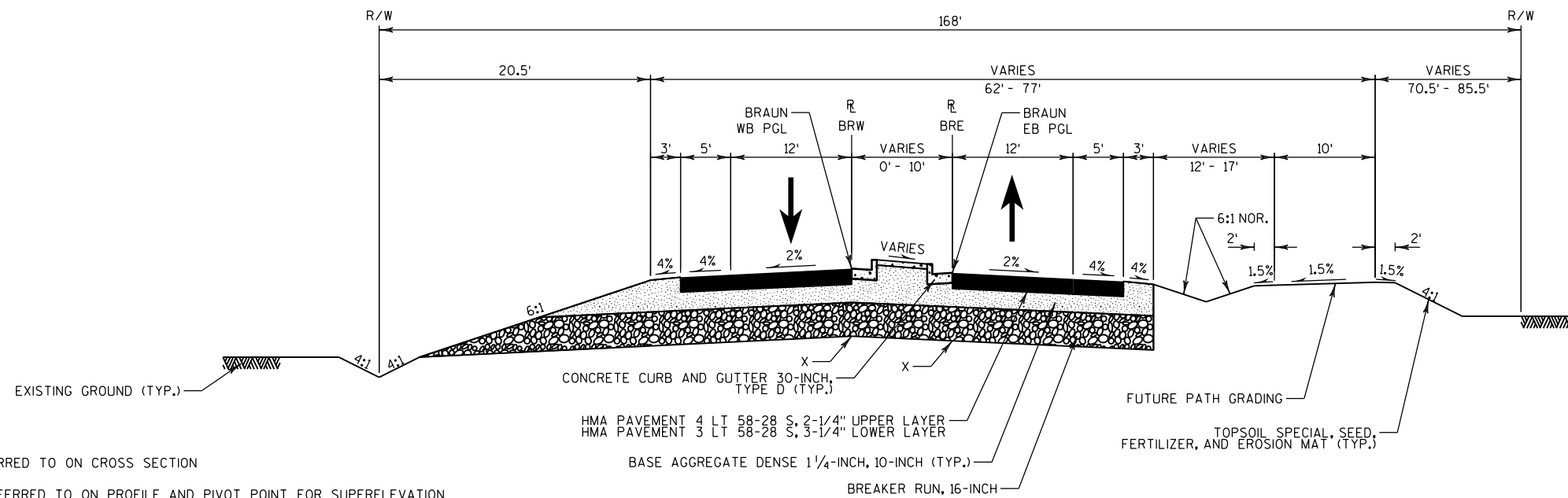
SEE CROSS SECTIONS FOR DITCH INFORMATION



TYPICAL FINISHED SECTION

BRAUN ROAD

STA 172BRE+73 TO STA 180BRE+43



LEGEND

X = POINT REFERRED TO ON CROSS SECTION

PGL = POINT REFERRED TO ON PROFILE AND PIVOT POINT FOR SUPERELEVATION

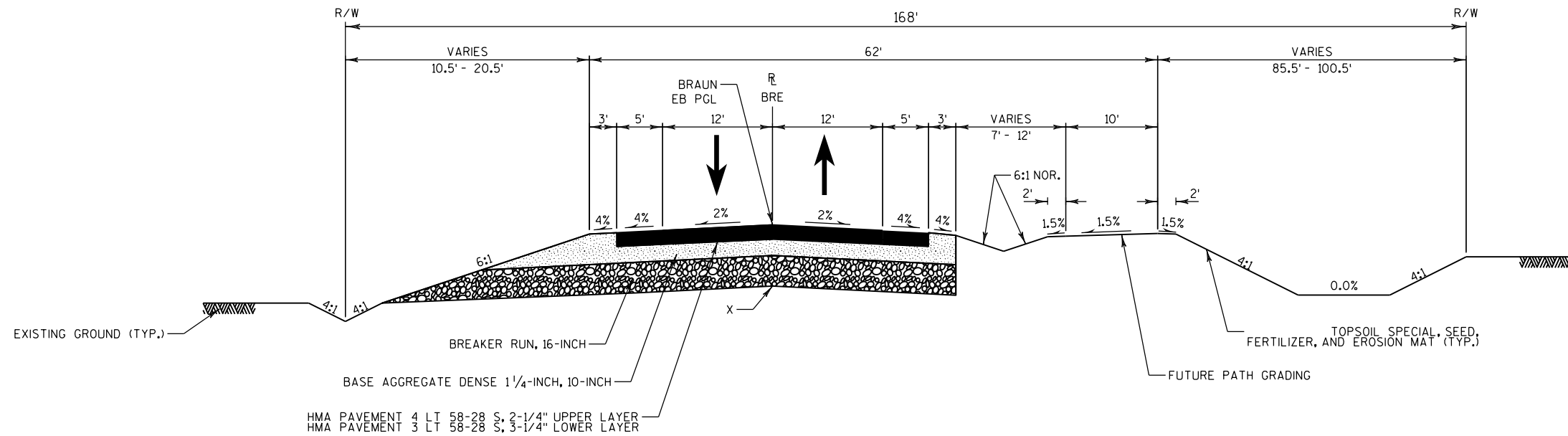
NOTE:

SEE CROSS SECTIONS FOR DITCH INFORMATION

TYPICAL FINISHED SECTION

BRAUN ROAD

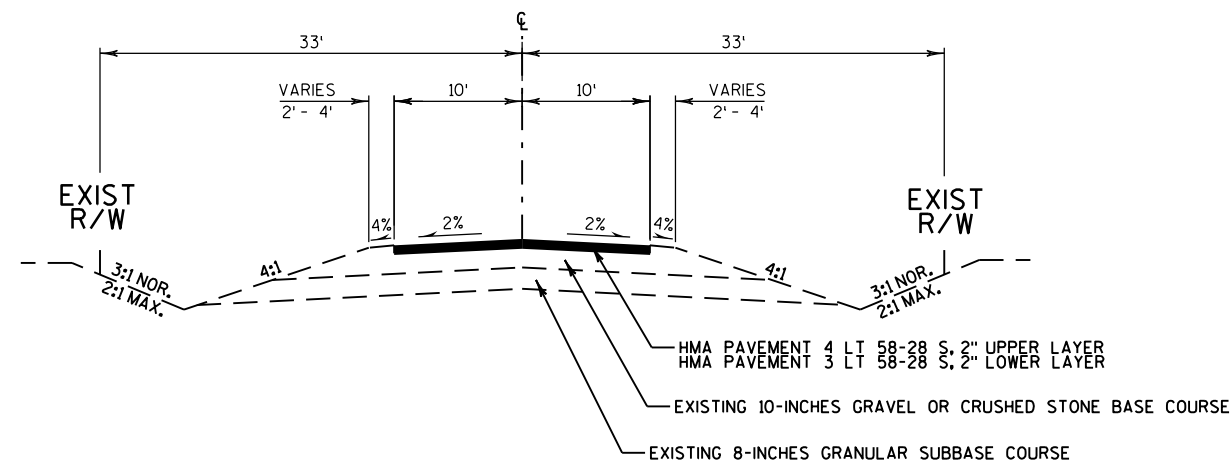
STA 180BRE+43 TO STA 184BRE+95



TYPICAL FINISHED SECTION

BRAUN ROAD

STA 184BRE+95 TO STA 209BRE+10



TYPICAL FINISHED SECTION

BRAUN ROAD

STA 209BRE+10 - STA 231BRE+01

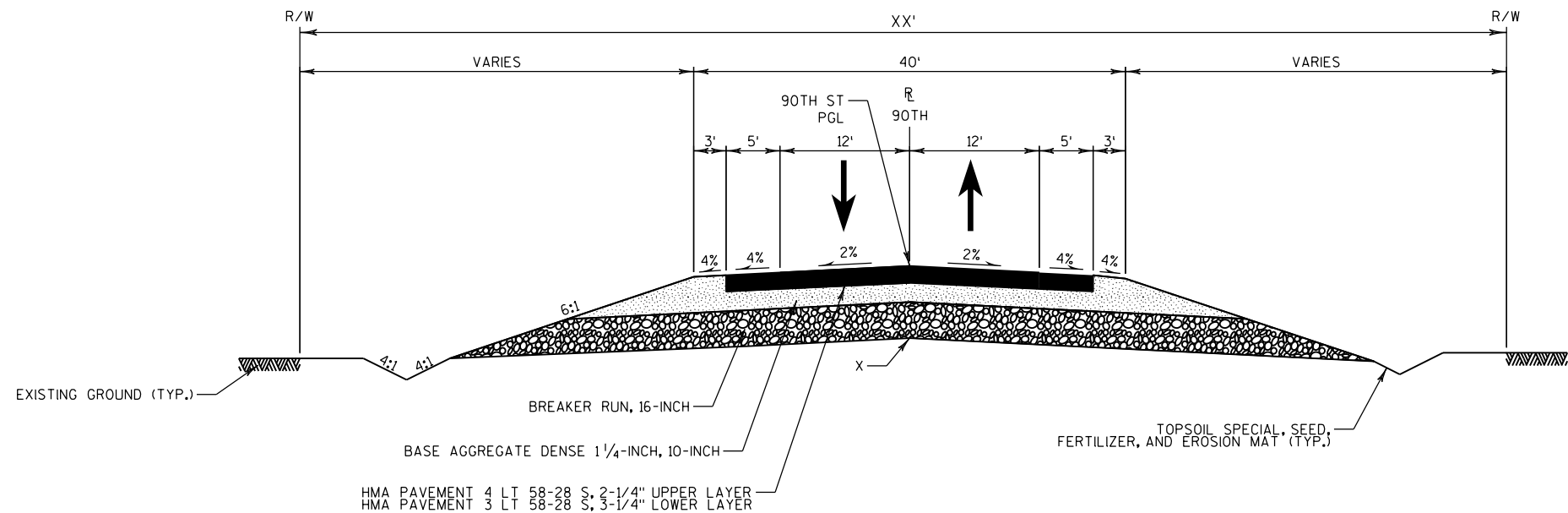
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PGL = POINT REFERRED TO ON PROFILE AND PIVOT POINT FOR SUPERELEVATION

NOTE:

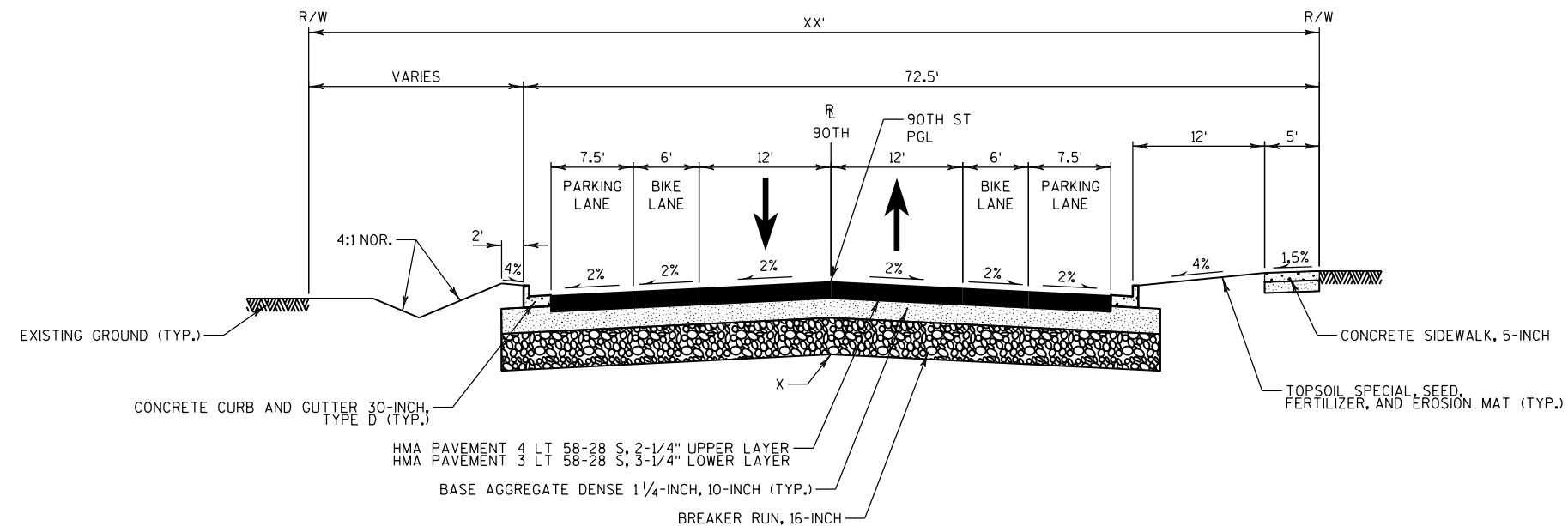
SEE CROSS SECTIONS FOR DITCH INFORMATION



TYPICAL FINISHED SECTION

90TH STREET

STA 100INS+00 TO STA 100INS+50



TYPICAL FINISHED SECTION

90TH STREET

STA 100INS+74 TO STA 1002NS+17

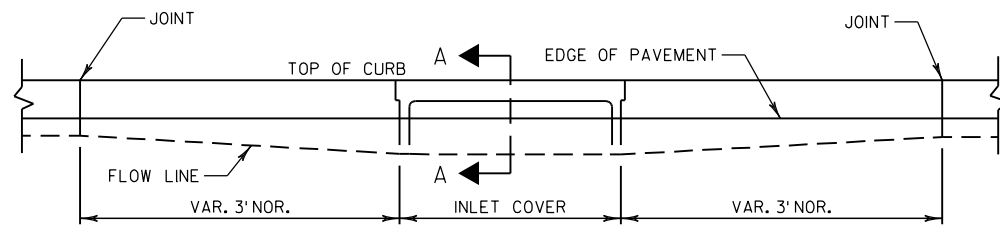
LEGEND

X = POINT REFERRED TO ON CROSS SECTION

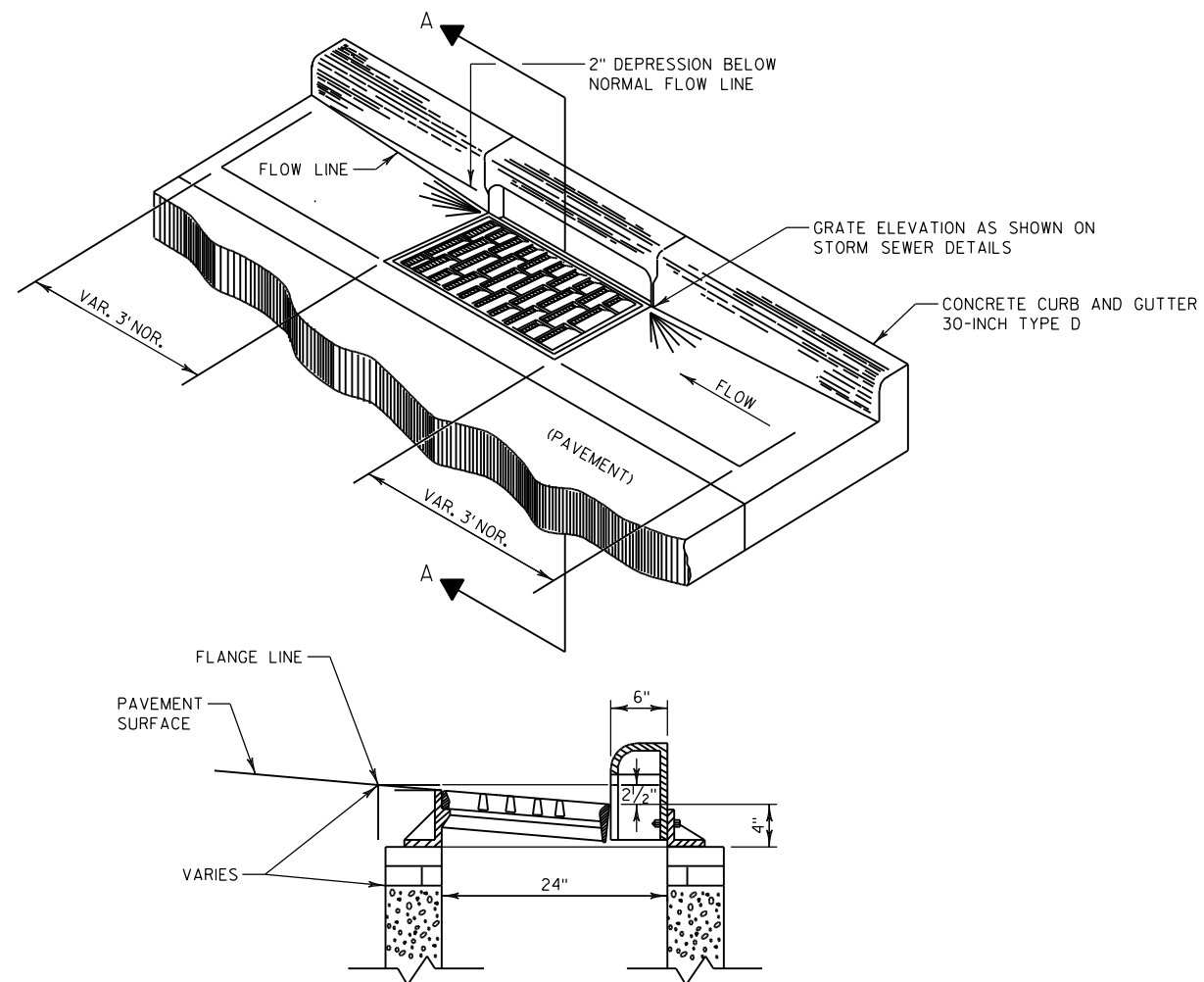
PGL = POINT REFERRED TO ON PROFILE AND PIVOT POINT FOR SUPERELEVATION

NOTE:

SEE CROSS SECTIONS FOR DITCH INFORMATION

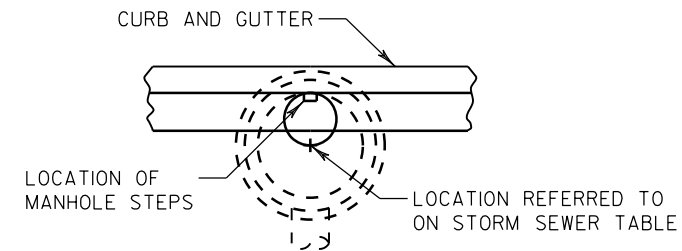


ELEVATION

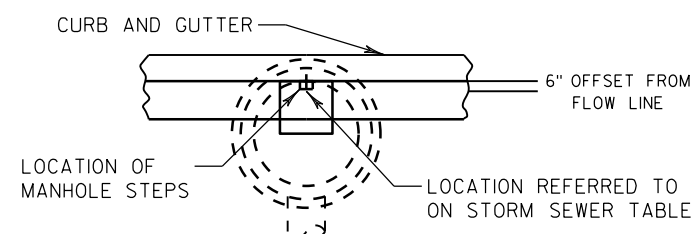
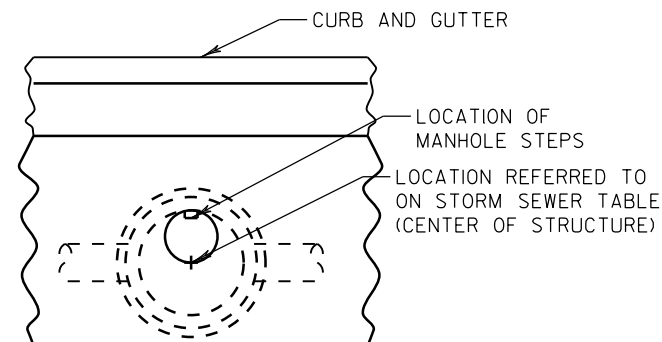


SECTION A-A

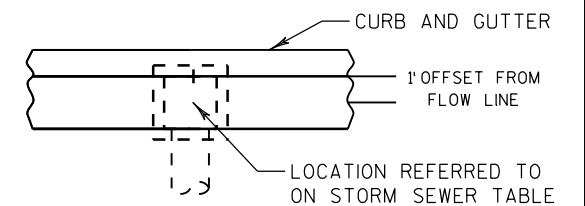
DETAIL OF CURB AND GUTTER AT INLETS



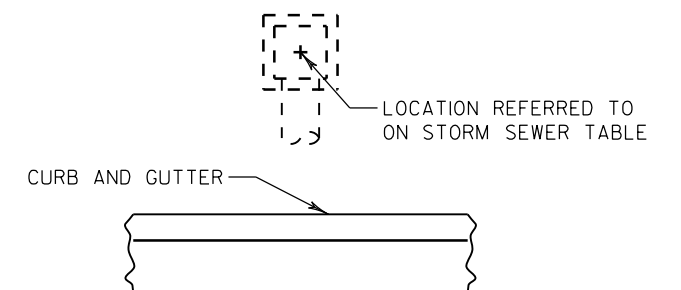
MANHOLE IN CURB AND GUTTER

MANHOLE WITH INLET COVER
IN CURB AND GUTTER

MANHOLE NOT IN CURB AND GUTTER



INLET IN CURB AND GUTTER

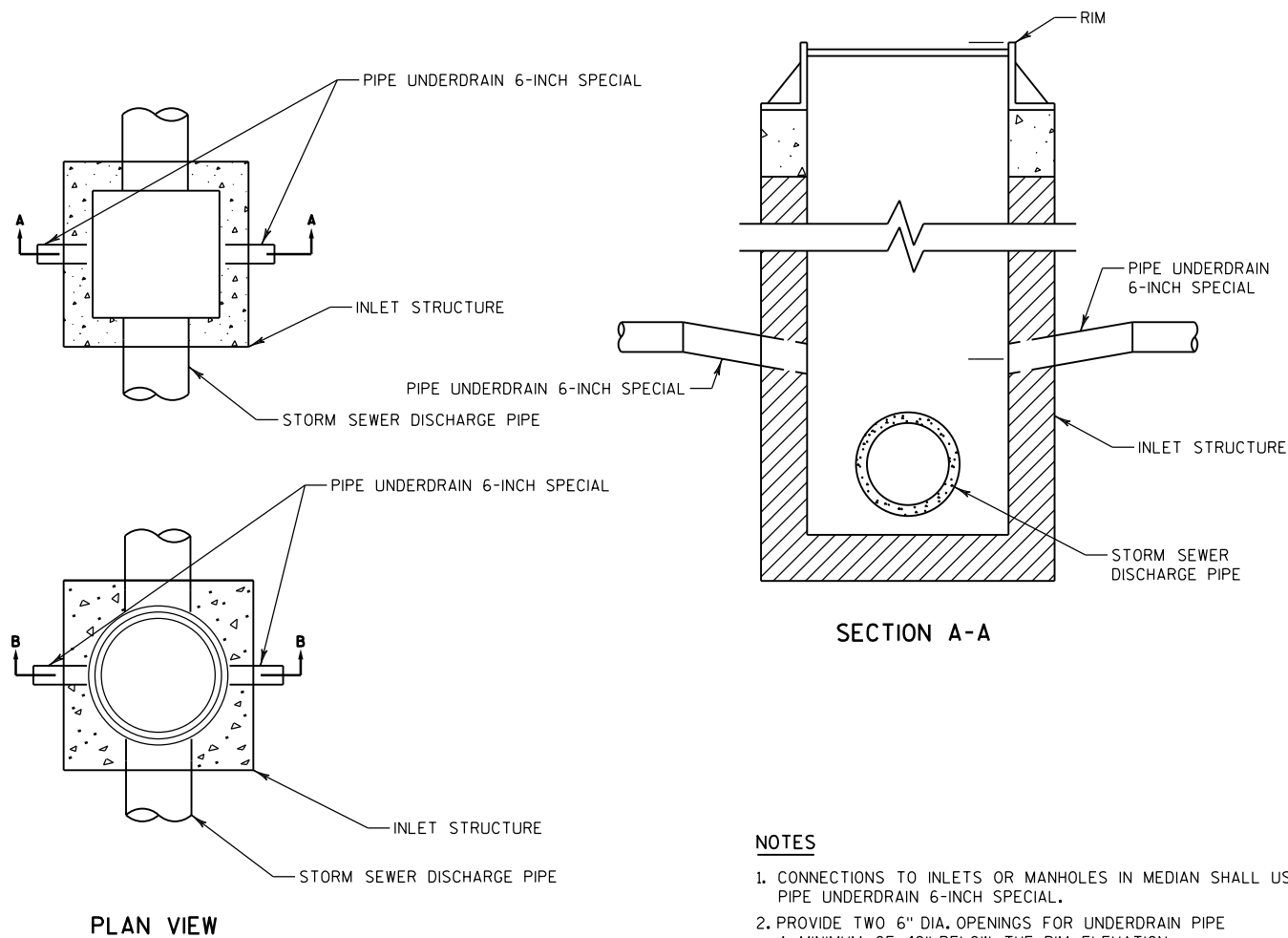


INLET NOT IN CURB AND GUTTER

NOTE

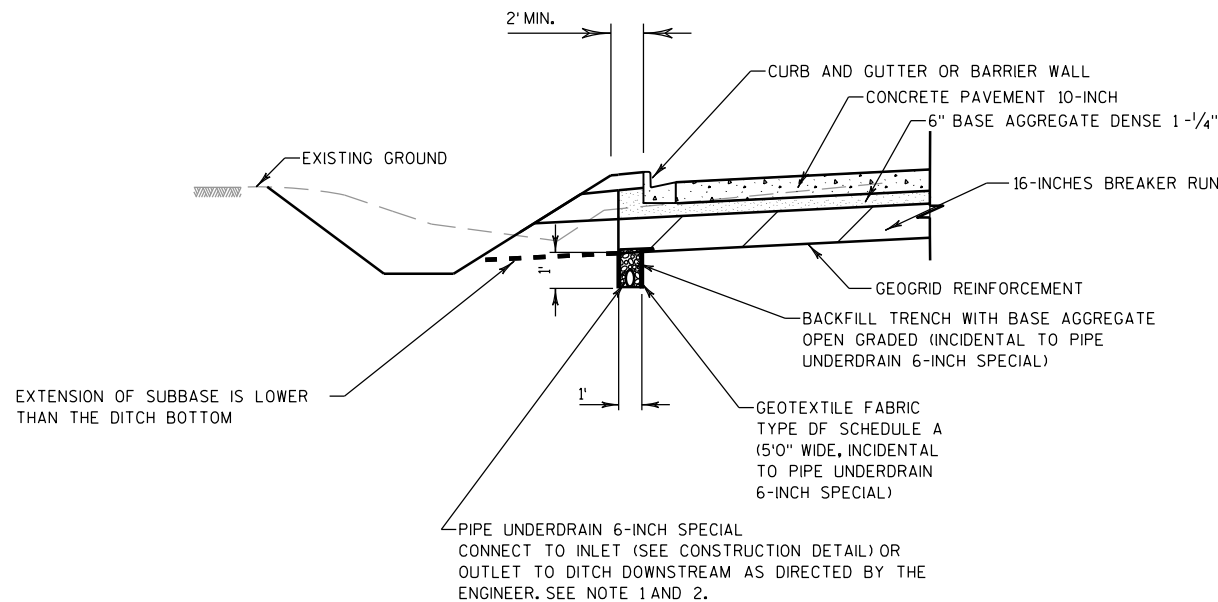
- 1) LOCATION OF STRUCTURE MAY BE ADJUSTED TO FIT FIELD CONDITIONS.
- 2) LOCATION AND SIZE OF STRUCTURE COVER OPENING DEPENDS ON TYPE OF CASTING. CASTING TYPES ARE SHOWN ON THE STORM SEWER TABLE.

STRUCTURE LOCATION DETAIL



- NOTES**
- 1. CONNECTIONS TO INLETS OR MANHOLES IN MEDIAN SHALL USE PIPE UNDERDRAIN 6-INCH SPECIAL.
 - 2. PROVIDE TWO 6" DIA. OPENINGS FOR UNDERDRAIN PIPE A MINIMUM OF 49" BELOW THE RIM ELEVATION.
 - 3. SEE TYPICAL SECTIONS, STORM SEWER, AND UNDERDRAIN PLANS FOR PIPE UNDERDRAIN LOCATIONS.
 - 3. CORE CONNECTION FOR THE INLET DRAIN IS INCIDENTAL TO PIPE UNDERDRAIN 6-INCH SPECIAL.

UNDERDRAIN OUTFALL AT INLET



PIPE UNDERDRAIN IN URBAN SECTIONS

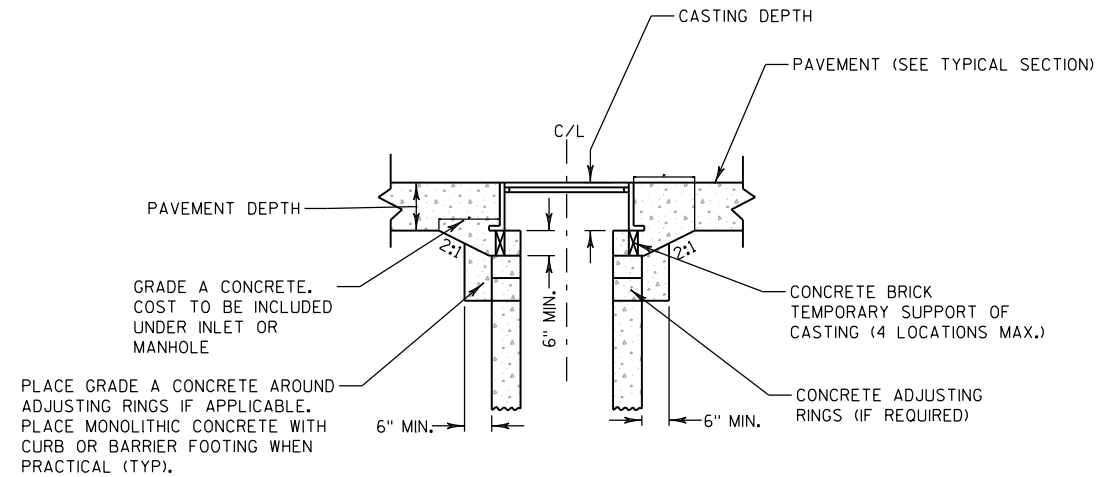
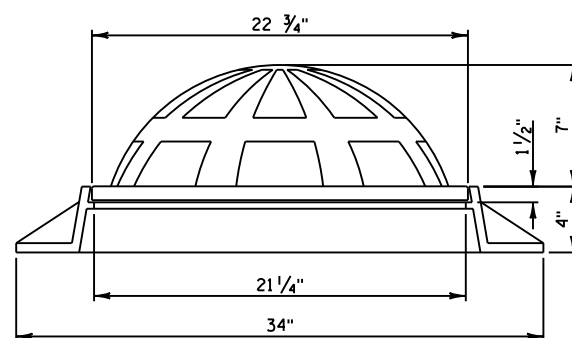
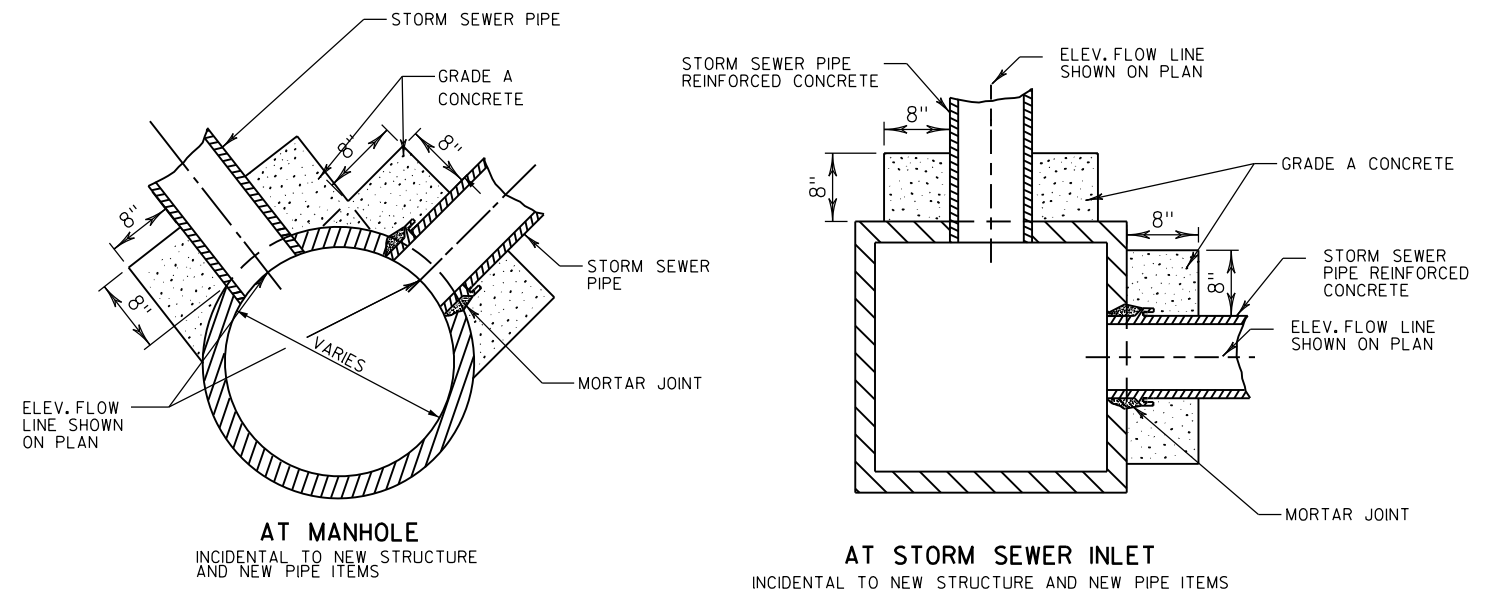
- NOTES:**
- 1. PIPE UNDERDRAIN UNPERFORATED REQUIRED AT LOCATIONS WHERE UNDERDRAIN IS REQUIRED TO CONNECT TO DITCHES OUTSIDE THE EBS AREA.
 - 2. PIPE UNDERDRAIN UNPERFORATED REQUIRED AT LOCATIONS WHERE UNDERDRAIN IS REQUIRED TO OUTFALL IN DITCHES ON THE OPPOSITE SIDE OF THE ROAD (SEE UNDERDRAIN LATERAL CROSSING OUTLET DETAIL)
 - 3. USE APRON ENDWALLS FOR UNDERDRAIN REINFORCED CONCRETE AT ALL DITCH OUTFALLS OF PIPE UNDERDRAIN.
 - 4. ADJUST LATERAL LOCATION OF PIPE UNDERDRAIN AS NECESSARY TO AVOID CONFLICTS WITH THE STORM SEWER.

STRUCTURE NUMBER	STATION	OFFSET
167A	166BRE+86	61.50' LT
167D	166BRE+88	34.41' LT
167F	166BRE+88	1.00' LT
167J	166BRE+89	59.14' RT
178	177BRE+74	26.30' LT
178A	177BRE+75	10.92' LT
178B	177BRE+75	1.00' LT
178D	177BRE+53	13.87' RT

NOTE

1) MONOLITHIC CONCRETE SHIMMING TO BE PROVIDED FOR ALL PROPOSED COVERS LOCATED IN CONCRETE PAVEMENT, CONCRETE CURB & GUTTER, AND CONCRETE BARRIER.

2) COST OF GRADE A CONCRETE AND CONCRETE BRICK IS INCIDENTAL TO MANHOLE OR INLET BID ITEM.

**MONOLITHIC CONCRETE SHIMMING DETAIL****INLET COVERS BEEHIVE****CONCRETE COLLAR DETAIL**

FOR LOCATIONS SEE MISCELLANEOUS QUANTITIES SHEETS

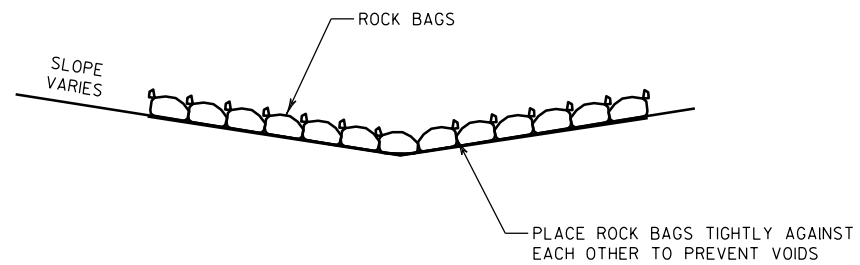
NOTE

CONCRETE COLLAR TO BE PAID AS A BID ITEM WHEN CONNECTING AN EXISTING PIPE TO A NEW STRUCTURE.

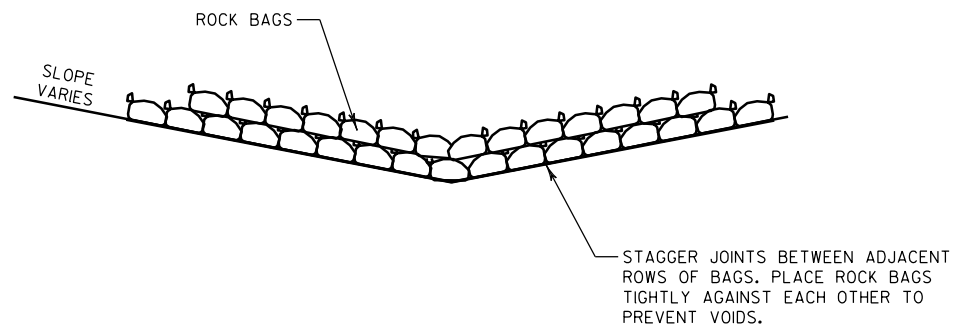


ESTIMATED BAG SIZE = 18" X 12" X 6"	
PIPE SIZE	ESTIMATED NUMBER OF BAGS
12"	1
15"	2
18"	2
24"	3
30"	5
36"	7
42"	7
48"	10
54"	10
60"	13
66"	14
72"	16
13"X17"	2
19"X30"	5
24"X38"	7
29"X45"	10
34"X53"	10
38"X60"	13
48"X76"	18



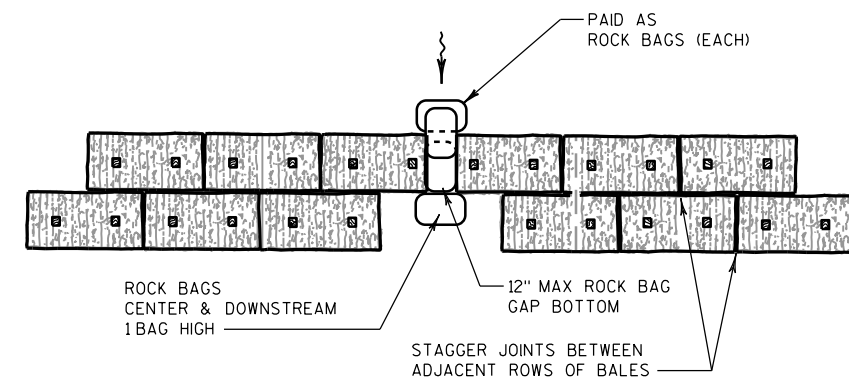


ROCK BAGS, SINGLE LAYER (SIDE VIEW)

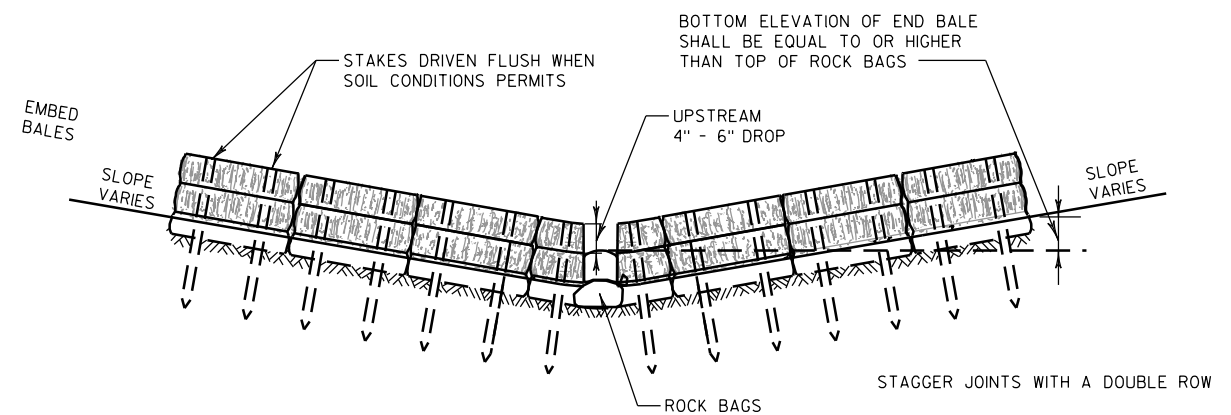


* LENGTH AND NUMBER OF BAGS MAY VARY
DEPENDING ON DESIRED DEPTH OF WATER POOL.

ROCK BAGS, DOUBLE LAYER (SIDE VIEW)



EROSION BALES, MODIFIED (PLAN VIEW)



EROSION BALES, MODIFIED (FRONT VIEW)

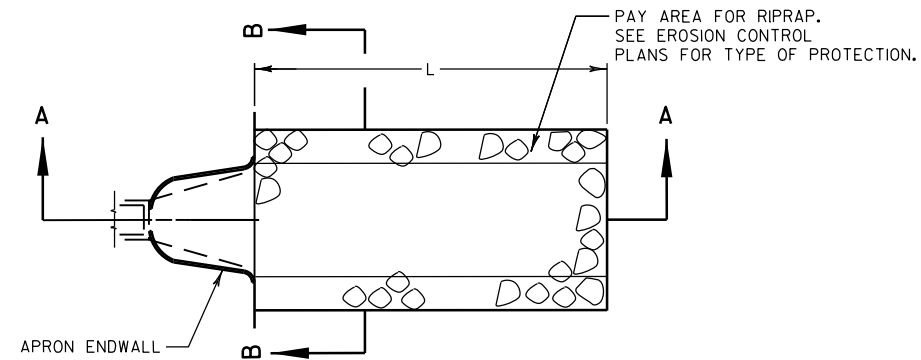
TEMPORARY DITCH CHECK ALTERNATIVE CONSTRUCTION METHODS

NOTE

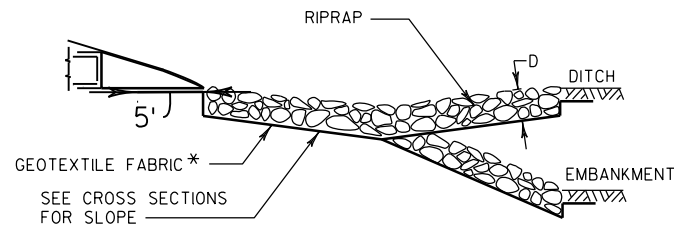
ALL ALTERNATIVE CONSTRUCTION METHODS ARE TO BE PAID FOR UNDER THE
ITEM 628.7504 TEMPORARY DITCH CHECKS

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING
SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS
AND THE APPLICABLE SPECIAL PROVISIONS.

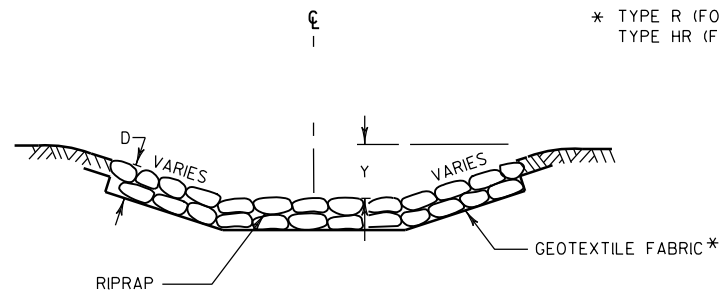
THIS INSTALLATION METHOD SHALL ONLY BE USED AT THE DIRECTION OF THE ENGINEER.



PLAN VIEW



SECTION A-A



SECTION B-B

**RIPRAP AND GEOTEXTILE FABRIC DETAIL
AT APRON ENDWALLS**

SEE EROSION CONTROL PLAN FOR LOCATIONS

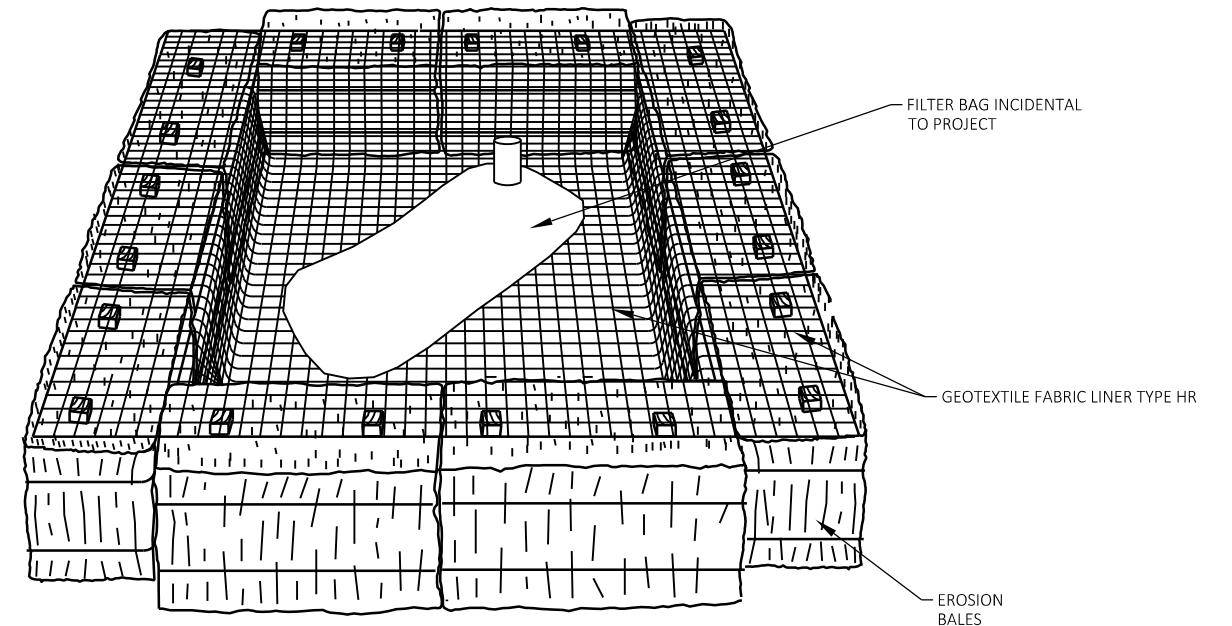
L = 3 x W (NOR) OR 10' MIN
OR AS INDICATED IN THE PLANS
OR AS DIRECTED BY THE ENGINEER

D = 12" FOR RIPRAP LIGHT
18" FOR RIPRAP MEDIUM
24" FOR RIPRAP HEAVY

X = W+2' FOR TYPICAL CULVERT
DISCHARGE INTO DITCH
W+5' FOR CULVERT DISCHARGE
DOWN EMBANKMENT SLOPE

Y = 0' FOR TYPICAL CULVERT
DISCHARGE INTO DITCH
12" FOR CULVERT DISCHARGE
DOWN EMBANKMENT SLOPE

* TYPE R (FOR RIPRAP LIGHT ONLY)
TYPE HR (FOR RIPRAP HEAVY AND MEDIUM ONLY)



(SIZE TO BE DETERMINED IN FIELD AS INDICATED BELOW:)

STORAGE VOLUME (C.F.) = 16 X GPM (PUMP RATE)

EXAMPLE:
CONTRACTOR INDICATES PUMP CAPABLE OF 50 GPM
HEIGHT OF BALES = 1.5 FT.

SOLUTION:
SV (C.F.) = 16 X 50
SV = 800 C.F.

$\frac{800 \text{ C.F.}}{1.5 \text{ FT.}} = 533 \text{ S.F.}$

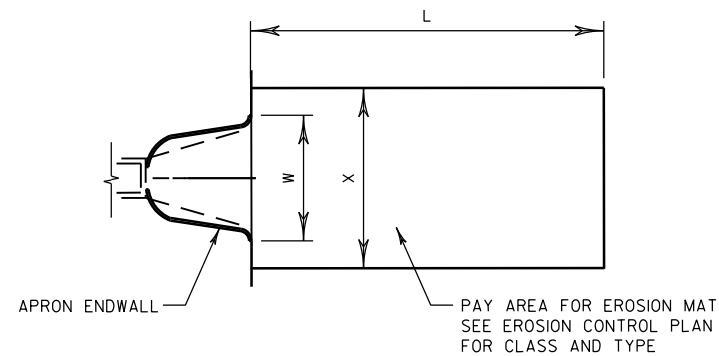
USE A 20 FT. X 27 FT. BASIN

NOTES

- 1) CONTRACTOR SHALL PUMP FROM DEWATERING OPERATIONS INTO TEMPORARY SETTLING BASINS PRIOR TO DISCHARGING INTO ROADSIDE DITCHES.
- 2) BASIN SHALL BE KEPT LESS THAN 10% FULL OF SEDIMENT. GEOTEXTILE FABRIC AND SEDIMENTS SHALL BE DISPOSED BY THE CONTRACTOR OFF OF THE PROJECT SITE.
- 3) TEMPORARY SETTLING BASIN SHALL BE PAID FOR AS EROSION BALES AND GEOTEXTILE FABRIC HR.

TEMPORARY SETTLING BASIN

UNDISTRIBUTED



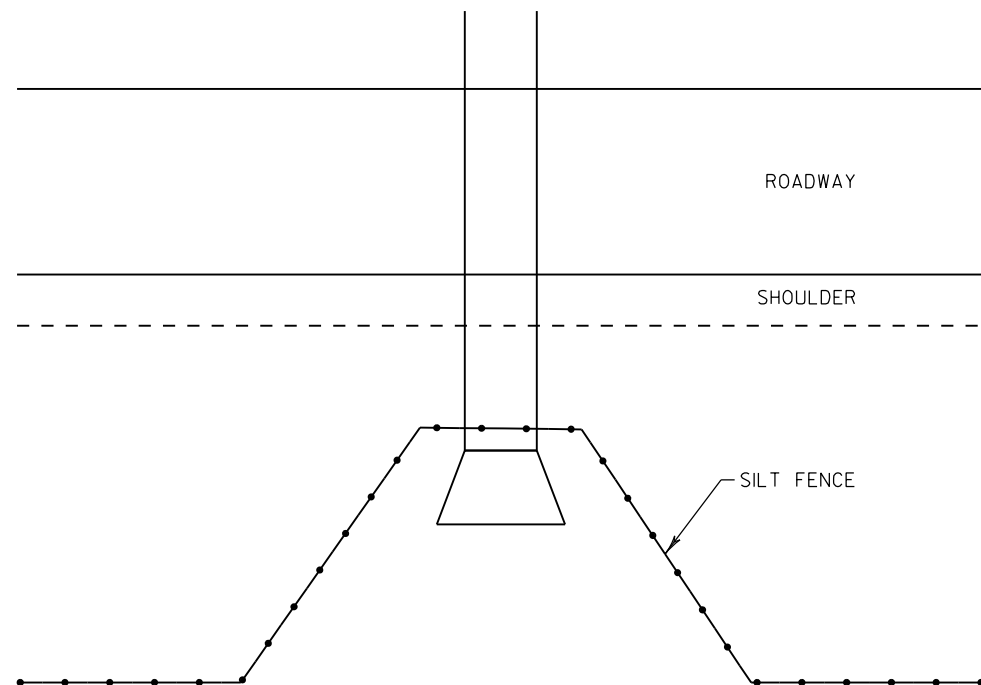
W = WIDTH OF APRON ENDWALL

L = 3 x W (NORMAL) OR 10' (MINIMUM) OR
AS INDICATED IN THE PLANS OR
AS DIRECTED BY THE ENGINEER.

X = W+2' FOR TYPICAL CULVERT
DISCHARGE INTO DITCH
W+5' FOR CULVERT DISCHARGE
DOWN EMBANKMENT SLOPE

EROSION MAT TREATMENT AT CULVERTS

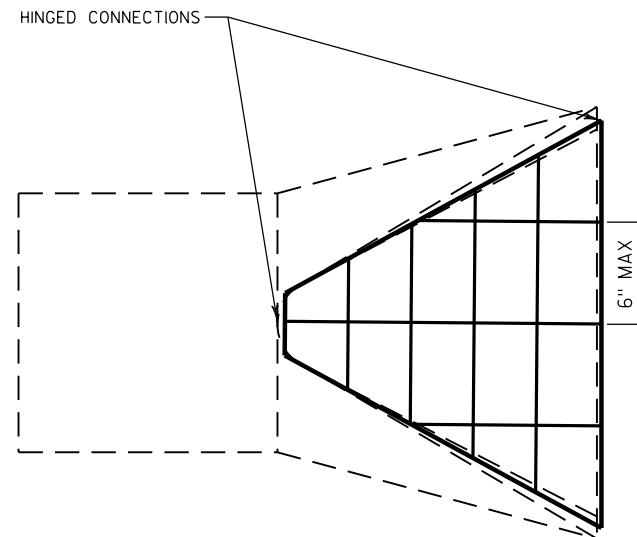
SEE EROSION CONTROL PLAN FOR LOCATIONS



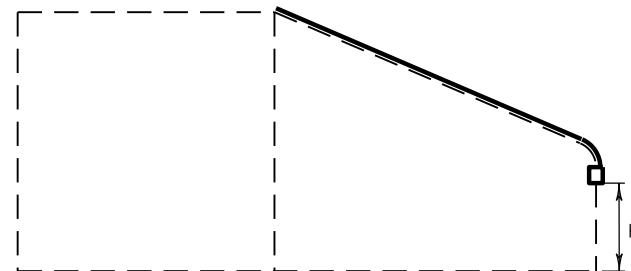
NOTE

SEE SILT FENCE SDD FOR ADDITIONAL INFORMATION.

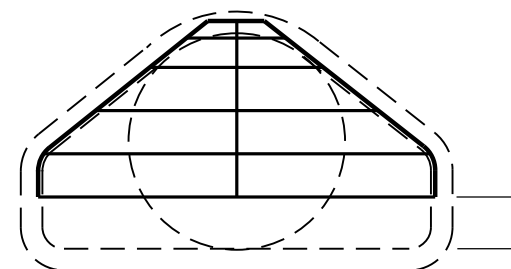
TYPICAL SILT FENCE DETAIL AT PIPE INLET



PLAN VIEW



SIDE VIEW



END VIEW

PIPE GRATE

GRATE CLEARANCE HEIGHT

ROUND PIPE		ARCH PIPE	
PIPE SIZE	H	PIPE SIZE	H
12"	2 1/2"	22" - 29"	4"
15"	3"	36" - 44"	5"
18" - 24"	4"	51" - 65"	6"
27" - 36"	5"	73" - 85"	7"
42" - 54"	6"		
60" - 72"	7"		
78" - 90"	8"		

GRATE BAR SIZES (STANDARD DESIGN)

	PIPE SIZE	HOLE DIAMETER REQUIRED	BOLT DIAMETER	BAR SIZE
ROUND PIPE	12" - 24"	3/4"	5/8"	5/8"
	27" - 48"	7/8"	3/4"	3/4"
	54" - 90"	1 1/8"	1"	1"
ARCH PIPE	22" - 29"	3/4"	5/8"	5/8"
	36" - 59"	7/8"	3/4"	3/4"
	65" - 85"	1 1/8"	1"	1"

BOLT LENGTH = PIPE WALL THICKNESS + 2 1/2"

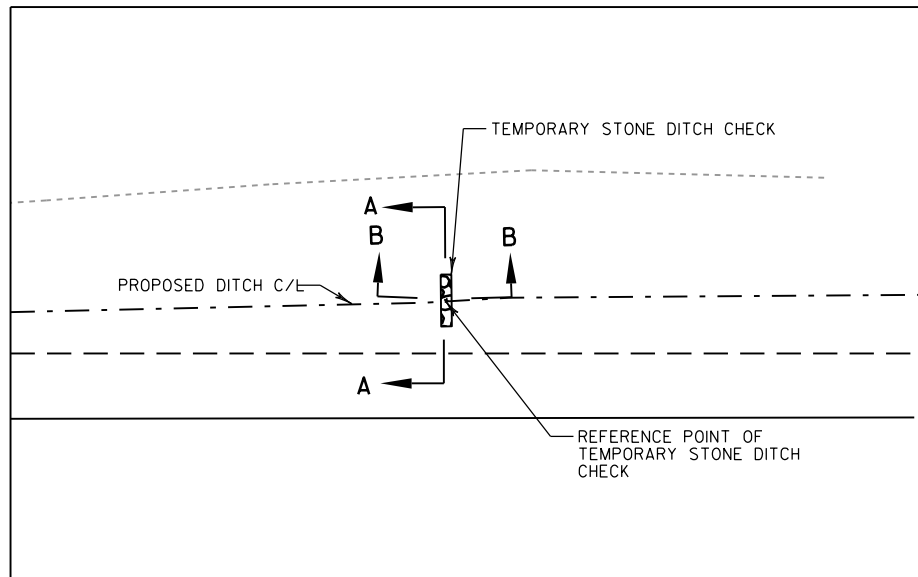
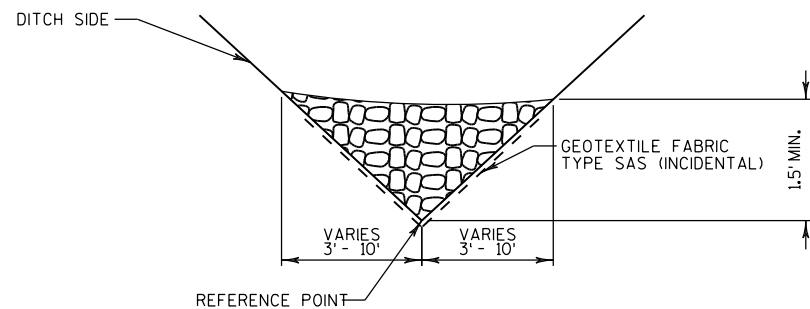
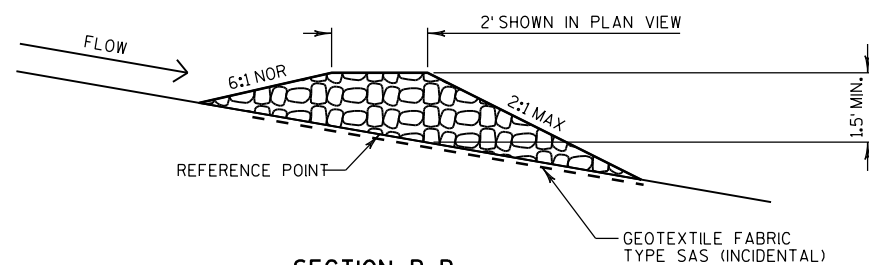
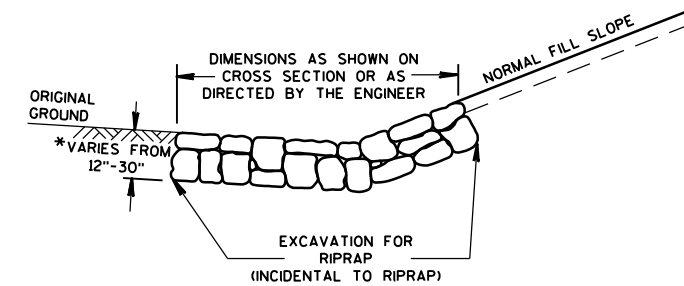
GENERAL NOTES

STONE DITCH CHECKS MUST BE INSTALLED WITH THE CENTER LOWER THAN THE SIDES FORMING A WEIR (SEE SECTION A-A).

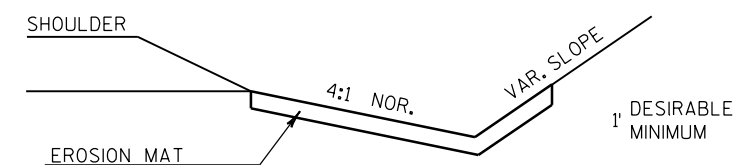
STONE DITCH CHECKS SHALL HAVE A MINIMUM TOP WIDTH OF 2-FT MEASURED IN THE DIRECTION OF FLOW WITH MAXIMUM SLOPES OF 2:1 ON THE UPSLOPE AND 2:1 ON THE DOWN SLOPE SIDE.

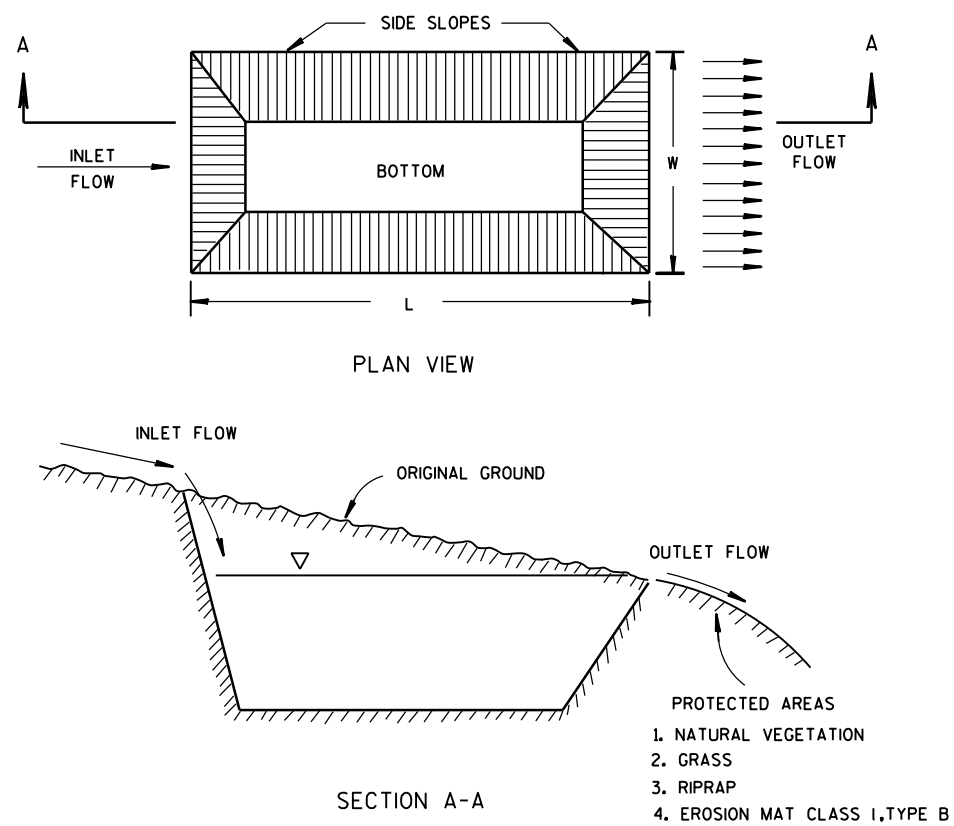
STONE DITCH CHECKS SHALL BE CONSTRUCTED OF A WELL-GRADED LIGHT RIPRAP MATERIAL.

STONE DITCH CHECKS IDENTIFIED IN STORM SEWER PLAN ARE PERMANENT AND SHALL NOT BE REMOVED UPON COMPLETION OF CONSTRUCTION.

**PLAN VIEW****SECTION A-A****SECTION B-B****TEMPORARY STONE DITCH CHECKS****DETAIL FOR RIPRAP IN DITCHES**

* PROVIDE DEPTHS AND VARIOUS RIPRAP SIZES IN ACCORDANCE WITH SECTION 606 OF THE STANDARD SPECIFICATIONS.

**EROSION MAT DETAIL FOR DITCHES**

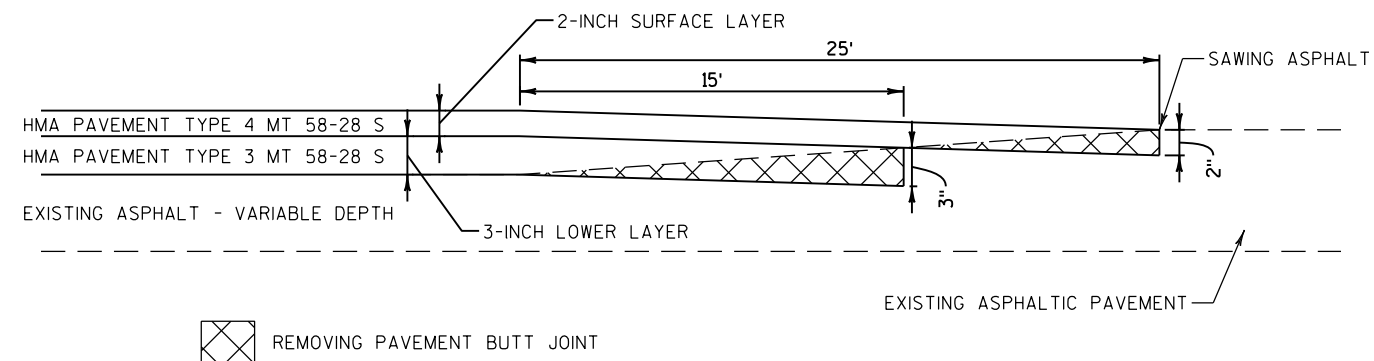


TYPICAL EXCAVATED SEDIMENT TRAP

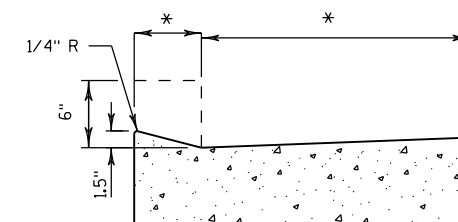
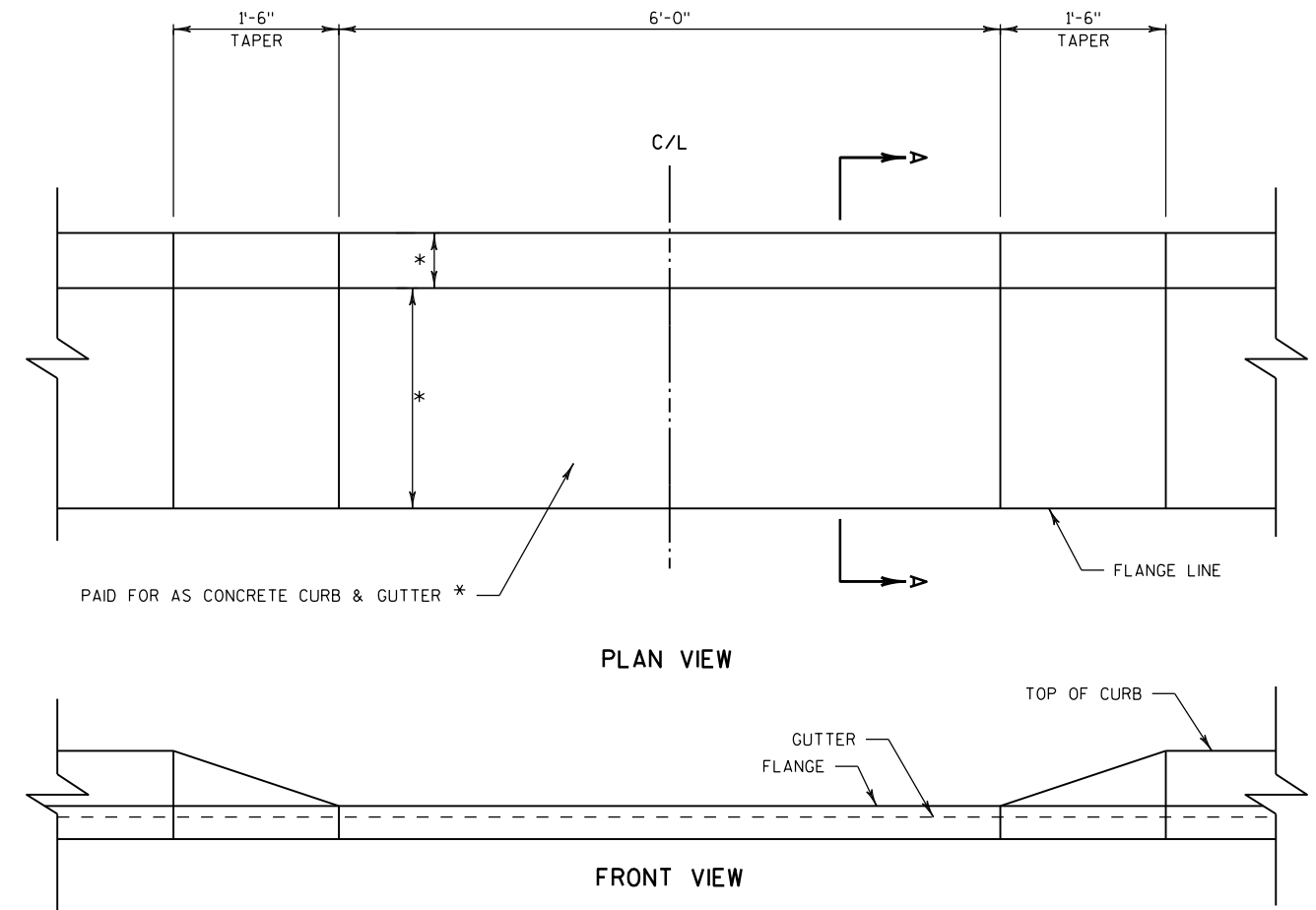
NOTES

CONTRACTOR TO PROVIDE A 10' WIDE TEMPORARY ASPHALTIC WEDGE ADJACENT TO MILLED BUTT JOINT AT ALL STREETS WHERE TRAFFIC IS TO BE MAINTAINED DURING CONSTRUCTION.

THE TEMPORARY ASPHALTIC WEDGE WILL BE CONSIDERED INCIDENTAL TO THE ITEM "REMOVING ASPHALTIC SURFACE, BUTT JOINTS."



BUTT JOINT DETAIL

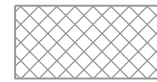


SECTION A-A

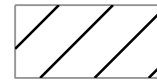
* TYPE AND DIMENSIONS TO MATCH ADJACENT CURB AND GUTTER.

MAINTENANCE OPENING

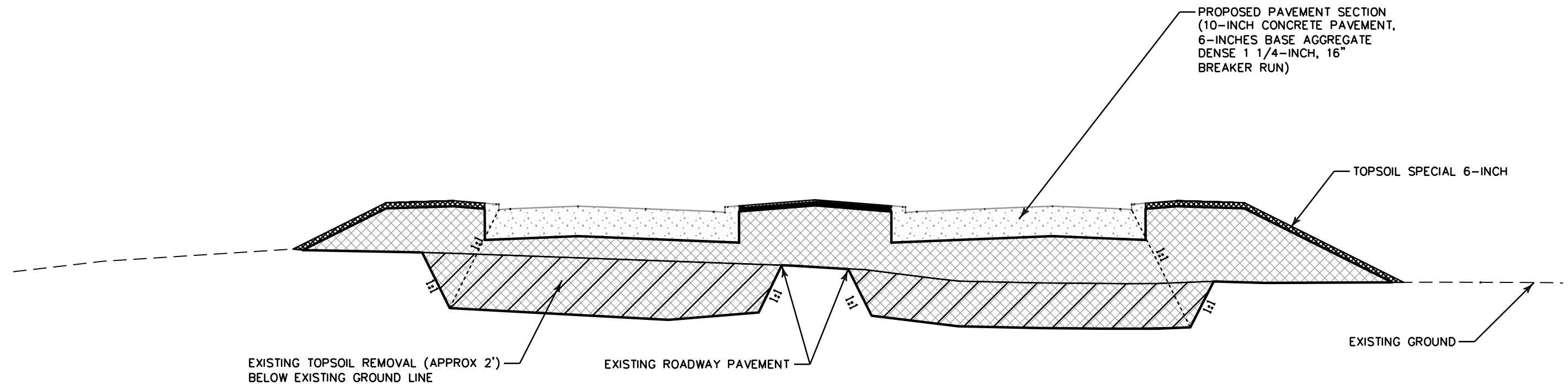
LOCATIONS SHOWN ON PAVING DETAILS

LEGEND:

ROADWAY EMBANKMENT LIMITS



TOPSOIL REMOVAL

TOPSOIL REMOVAL DETAILNOTES:

STRIP TOPSOIL PER DETAIL AS REQUIRED FOR ROADWAY CONSTRUCTION. PAYMENT SHALL BE UNDER THE ITEM FOR EXCAVATION COMMON.

LOCATIONS REQUIRING EXCAVATION GREATER THAN 2 FEET SHALL BE APPROVED BY THE ENGINEER AND PAID UNDER THE ITEM FOR EXCAVATION COMMON.

BACKFILL EXCAVATION WITH THE ITEM FOR ROADWAY EMBANKMENT.

TOPSOIL SPECIAL PLACEMENT DEPTH MAY BE INCREASED TO 12 INCHES OR AS APPROVED BY THE ENGINEER TO UTILIZE EXCESS TOPSOIL. TOPSOIL PLACED WITH A THICKNESS GREATER THAN 6 INCHES SHALL BE PAID FOR UNDER THE ITEM FOR ROADWAY EMBANKMENT.

NOTIFY THE ENGINEER BEFORE EXCAVATING TO A DEPTH GREATER THAN WHAT WAS SHOWN IN THE PLANS.

SEE EBS EXCAVATION DETAIL FOR PAY LIMITS OF EBS EXCAVATION AND EBS BACKFILL.

PROJECT NO: 2704-09-71

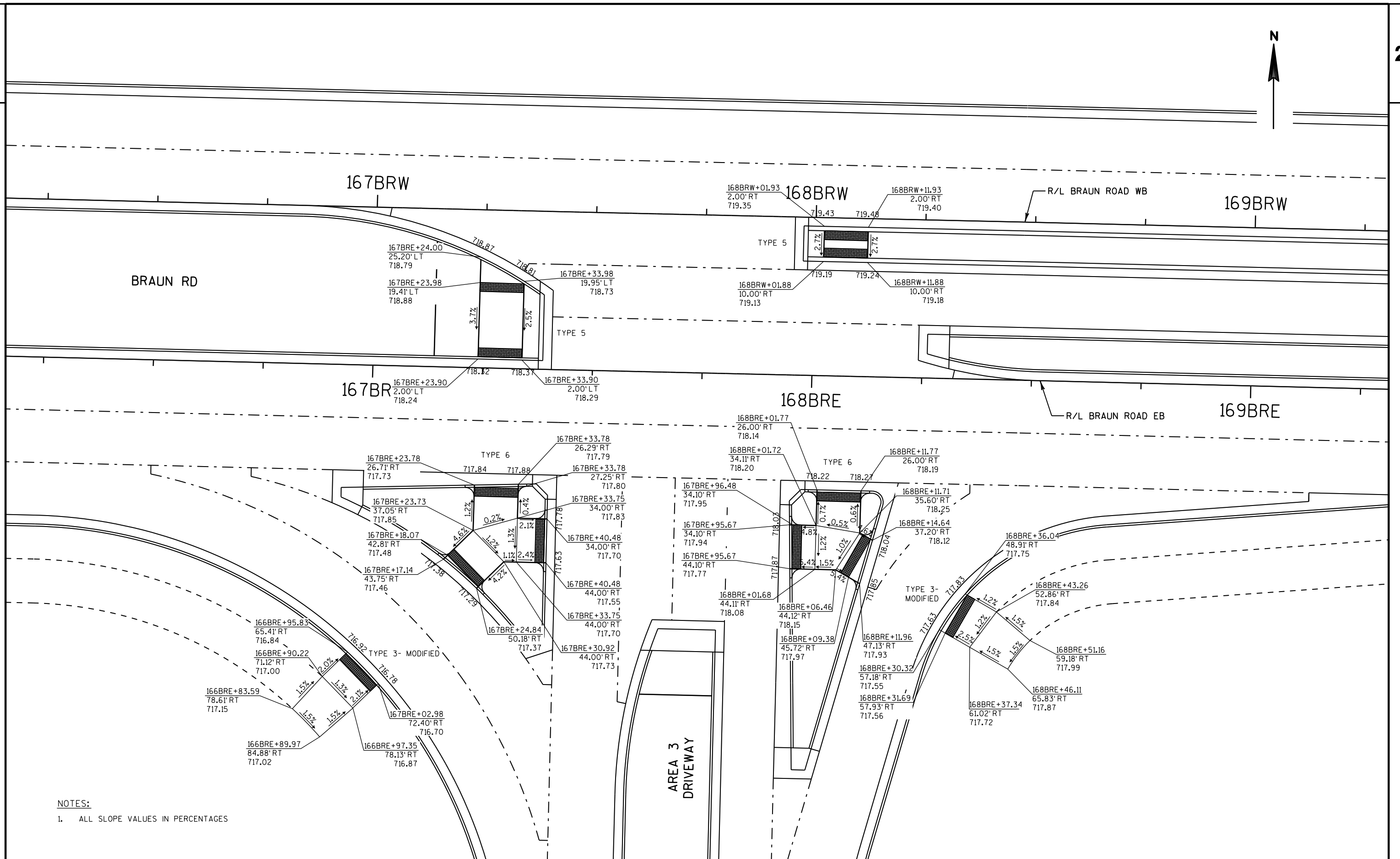
HWY: BRAUN ROAD

COUNTY: RACINE

CONSTRUCTION DETAILS

SHEET

E





90TH STREET

1002NS

208BRE

1001NS

R/L 90TH STREET

R/L BRAUN ROAD EB

BRAUN RD

207BRE

209BRE

NOTES:

1. ALL SLOPE VALUES IN PERCENTAGES

PROJECT NO: 2704-09-71

HWY: BRAUN ROAD

COUNTY: RACINE

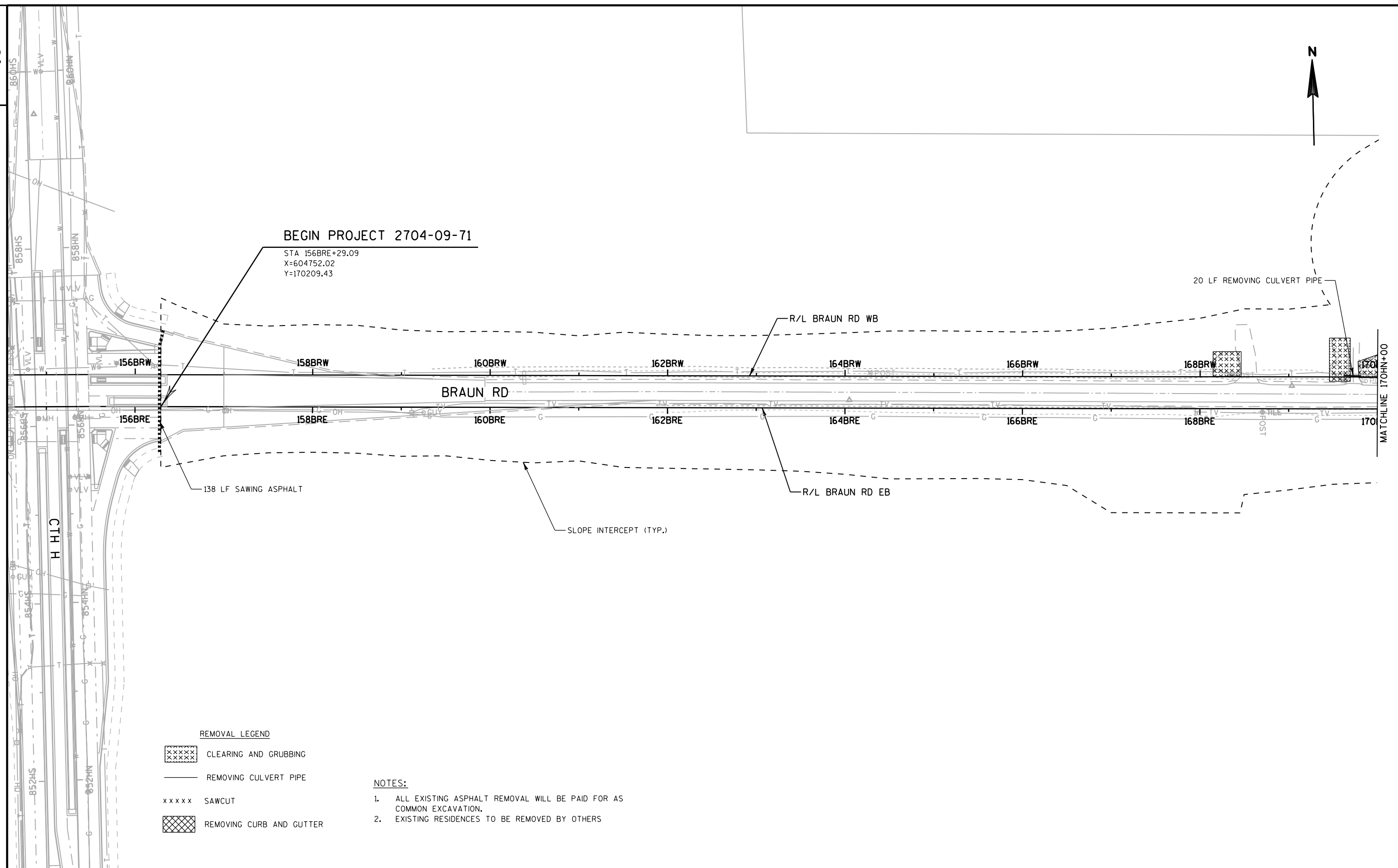
CURB RAMP DETAILS

SHEET

E

2

2



PROJECT NO:2704-09-71

HWY: BRAUN ROAD

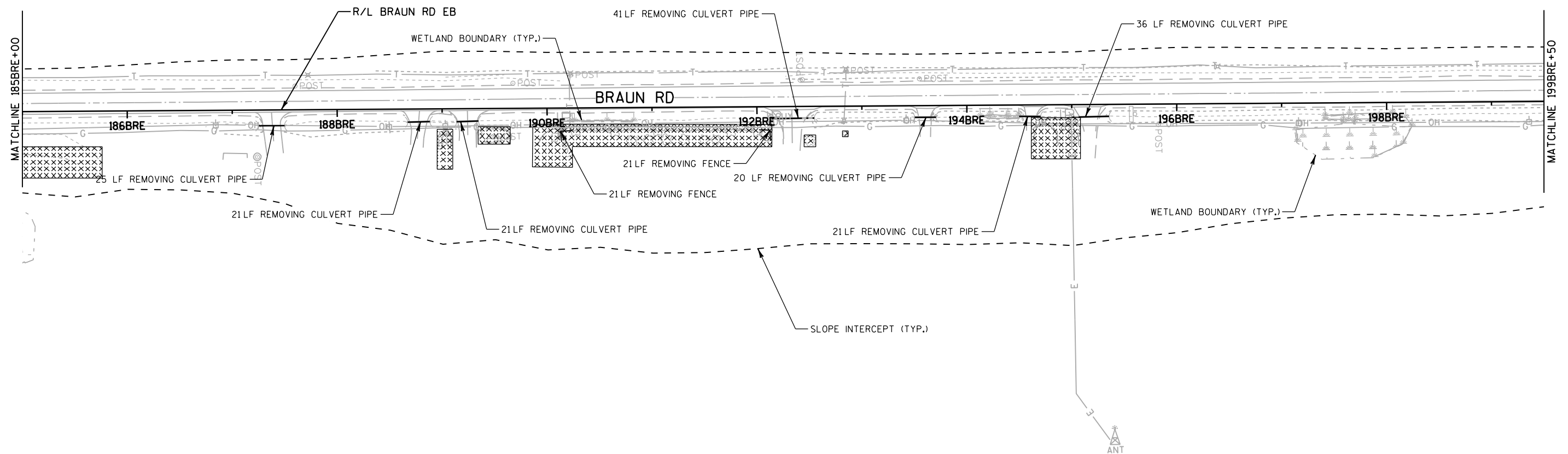
COUNTY: RACINE

REMOVAL PLAN

SHEET

E

N

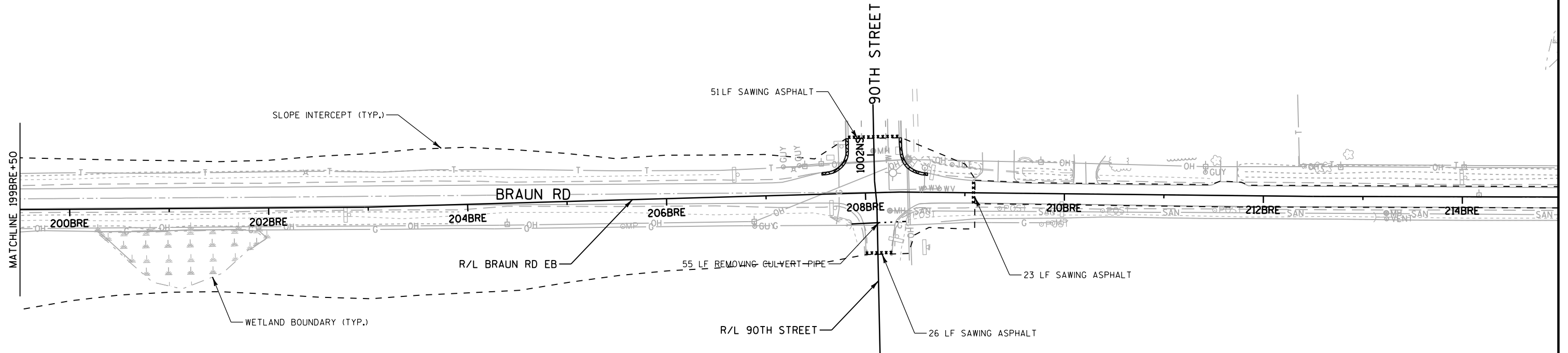


REMOVAL LEGEND

-  CLEARING AND GRUBBING
-  REMOVING CULVERT PIPE
-  SAWCUT
-  REMOVING CURB AND GUTTER

NOTES:

1. ALL EXISTING ASPHALT REMOVAL WILL BE PAID FOR AS COMMON EXCAVATION.
2. EXISTING RESIDENCES TO BE REMOVED BY OTHERS

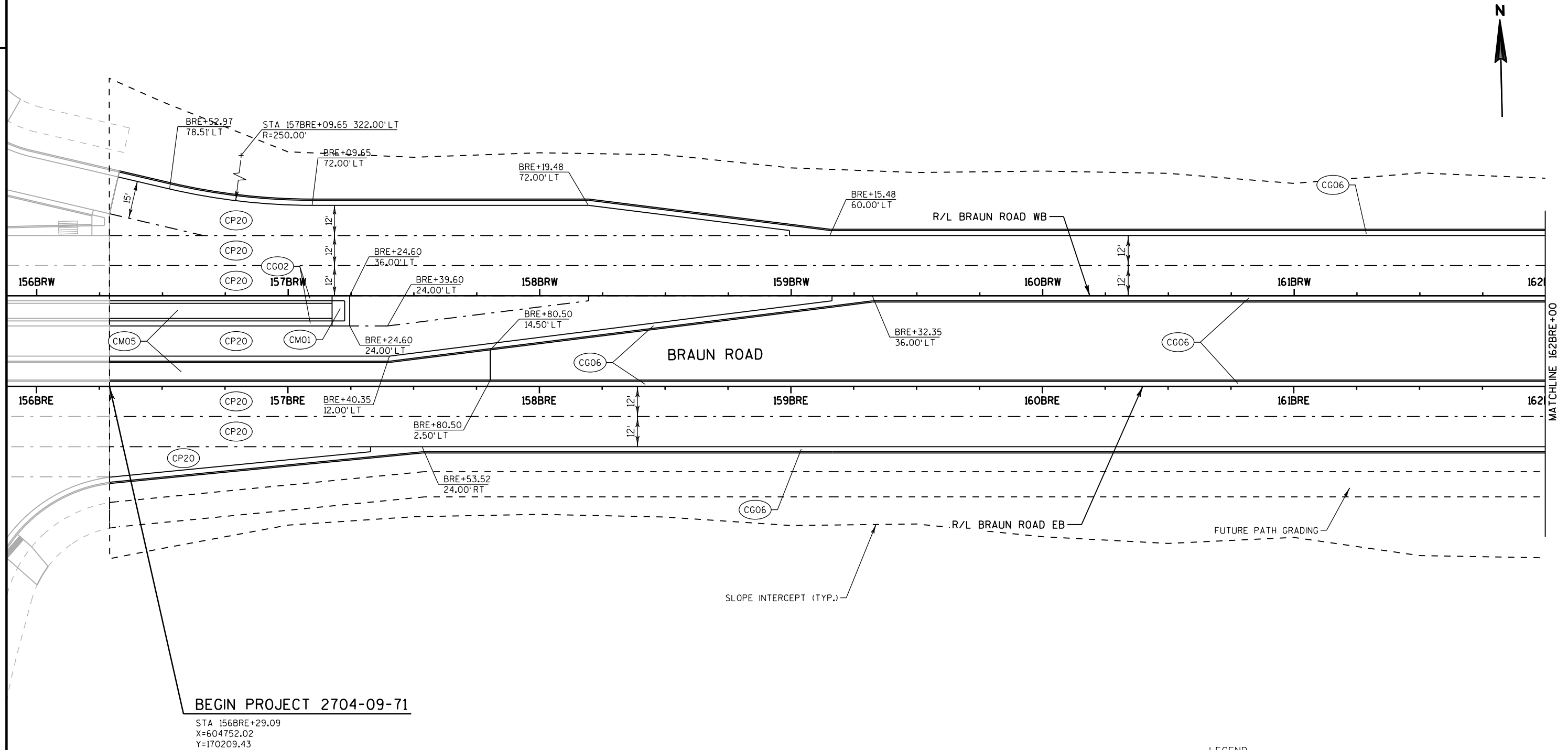


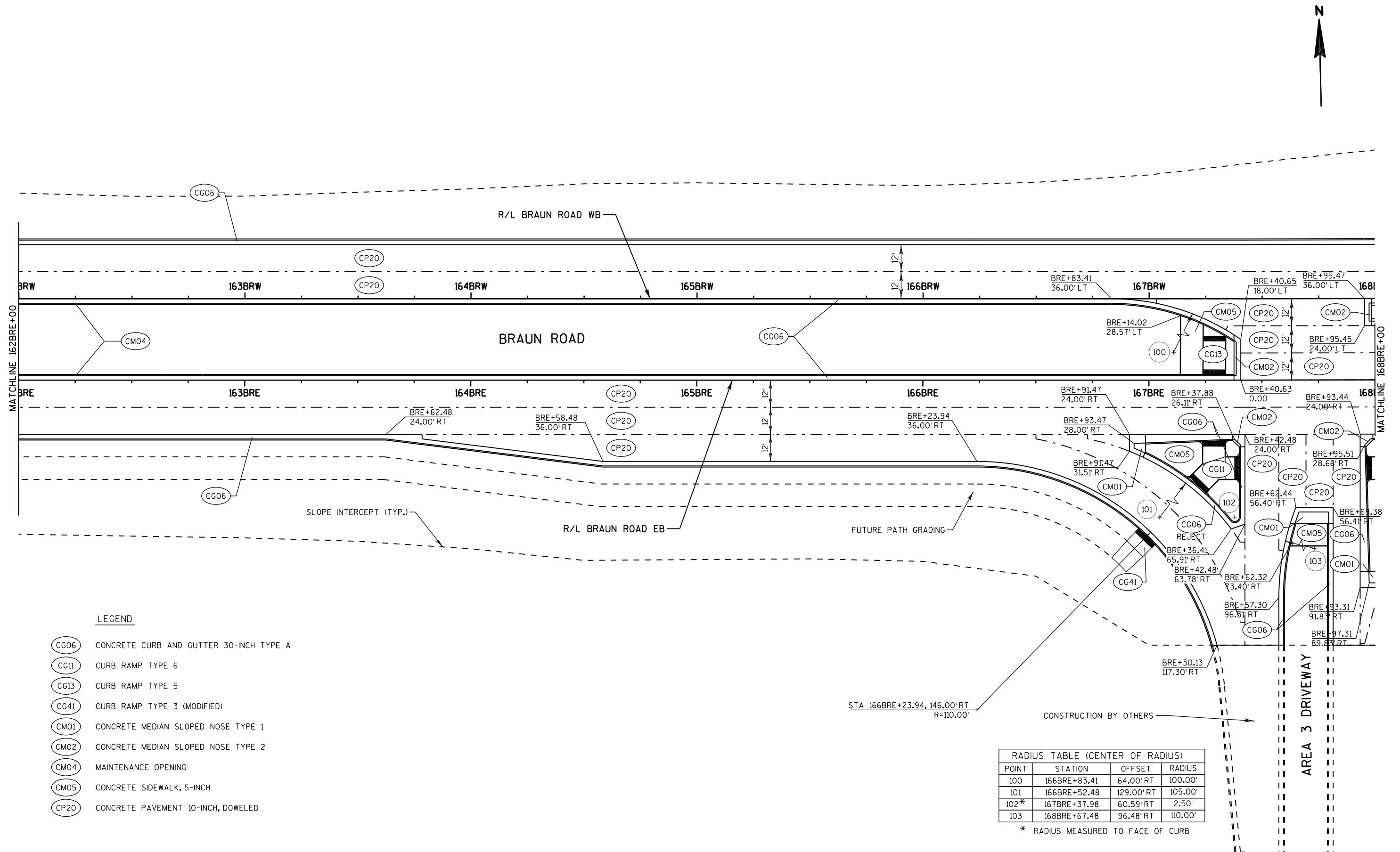
REMOVAL LEGEND

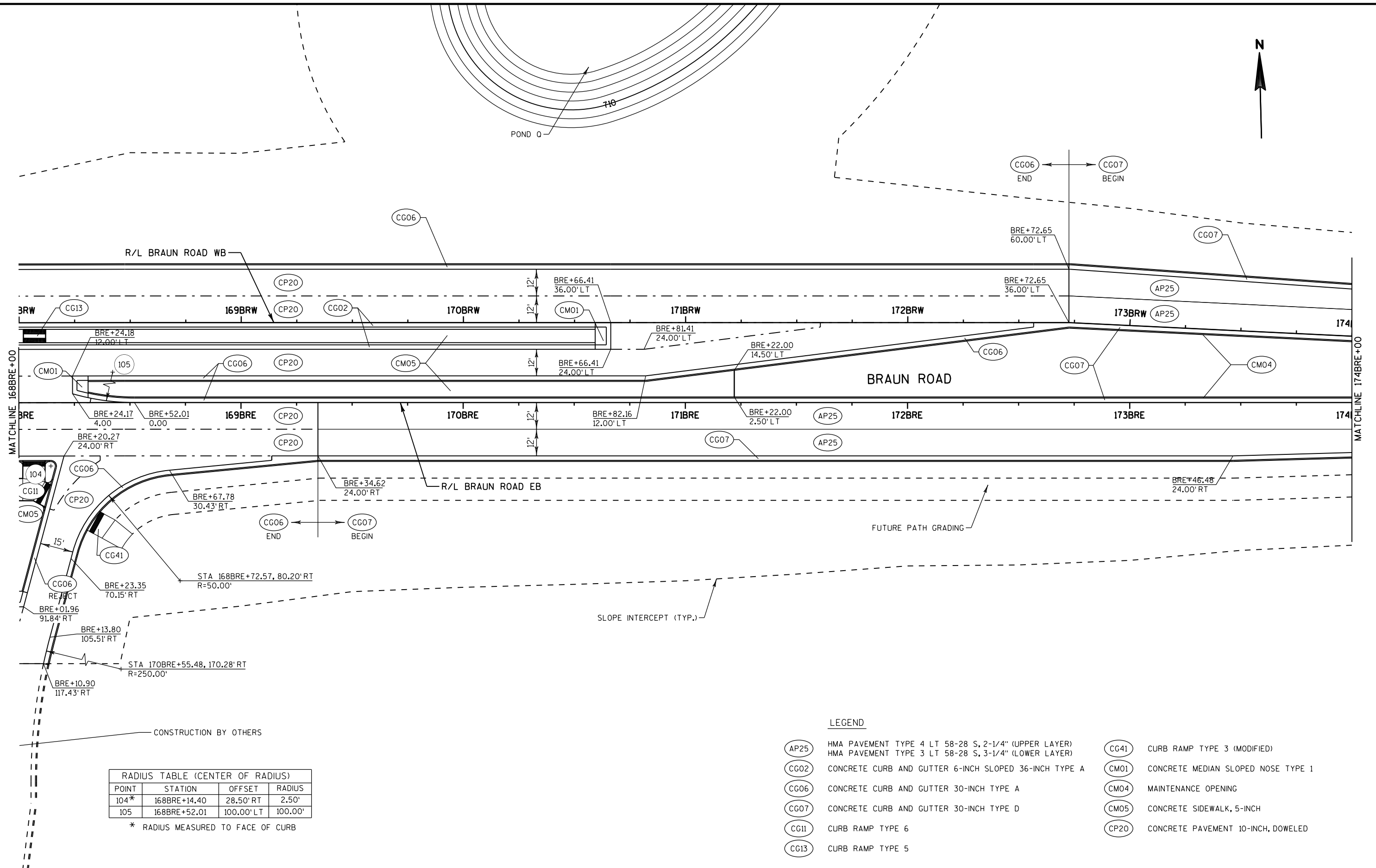
-  CLEARING AND GRUBBING
-  REMOVING CULVERT PIPE
-  SAWCUT
-  REMOVING CURB AND GUTTER

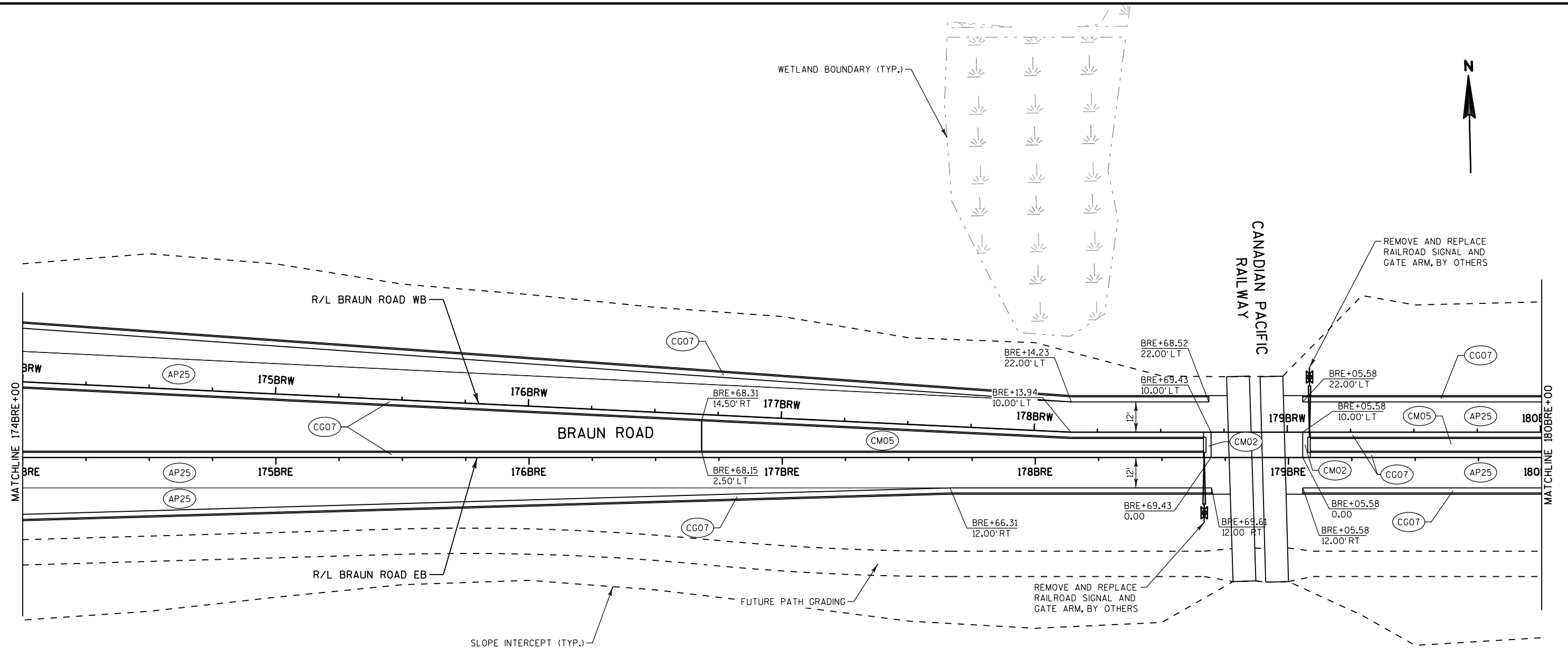
NOTES:

1. ALL EXISTING ASPHALT REMOVAL WILL BE PAID FOR AS COMMON EXCAVATION.
2. EXISTING RESIDENCES TO BE REMOVED BY OTHERS



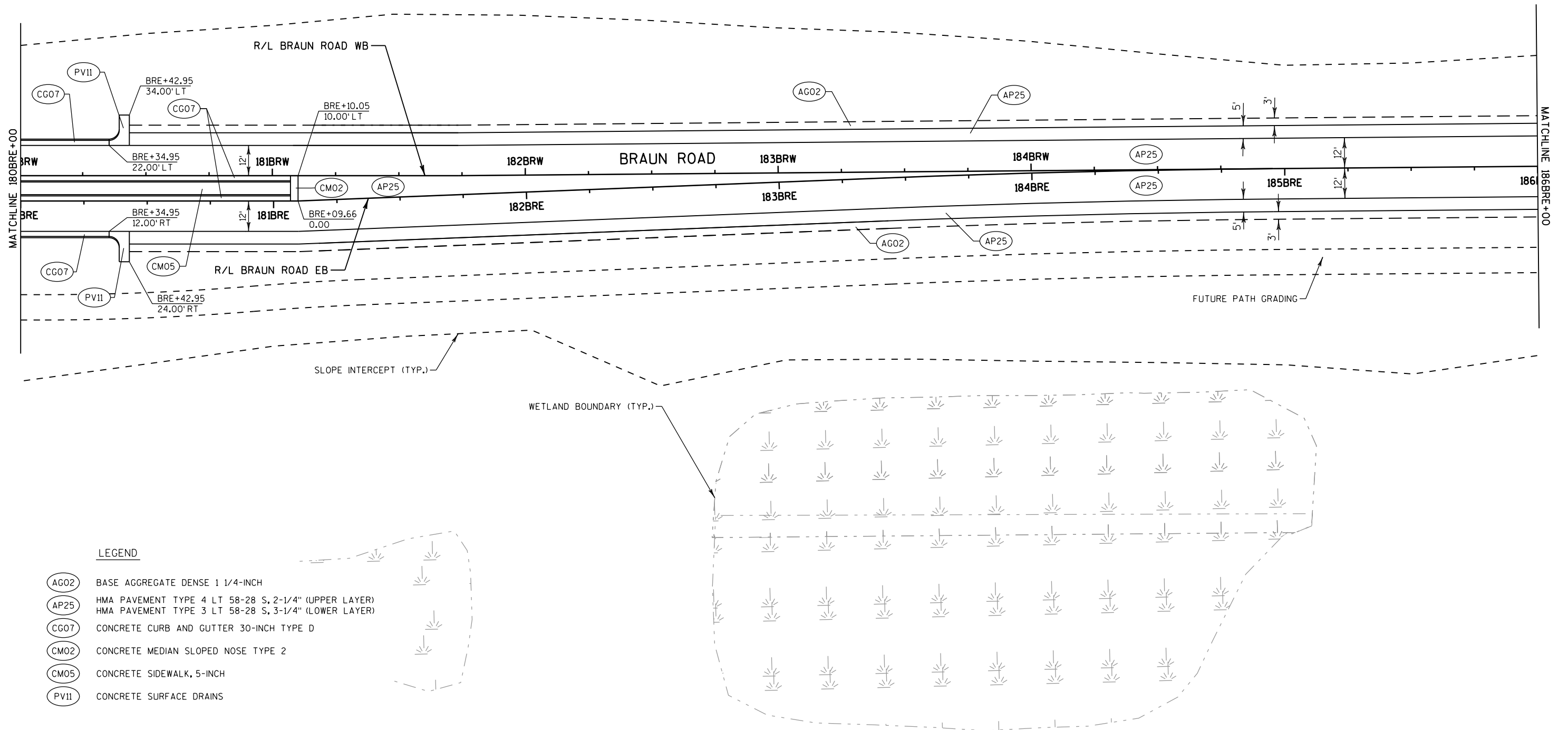






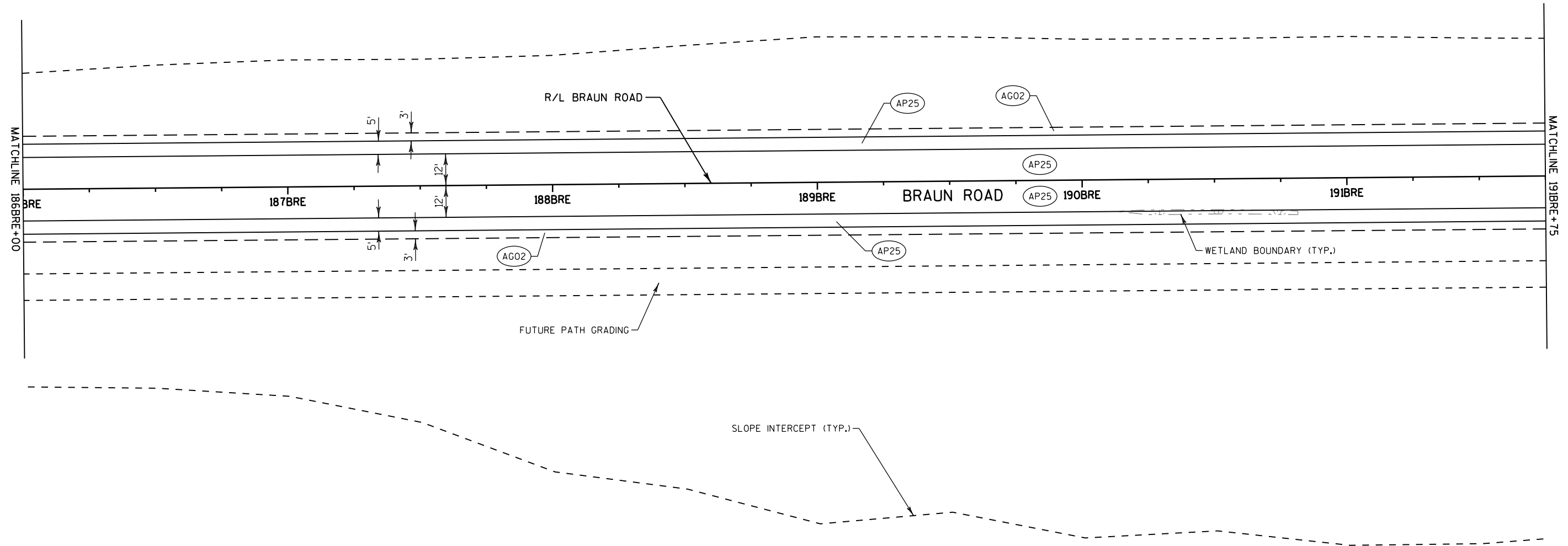
LEGEND

- AG02 BASE AGGREGATE DENSE 1 1/4-INCH
- AP25 HMA PAVEMENT TYPE 4 LT 58-28 S, 2-1/4" (UPPER LAYER)
HMA PAVEMENT TYPE 3 LT 58-28 S, 3-1/4" (LOWER LAYER)
- CG07 CONCRETE CURB AND GUTTER 30-INCH TYPE D
- CM02 CONCRETE MEDIAN SLOPED NOSE TYPE 2
- CM05 CONCRETE SIDEWALK, 5-INCH



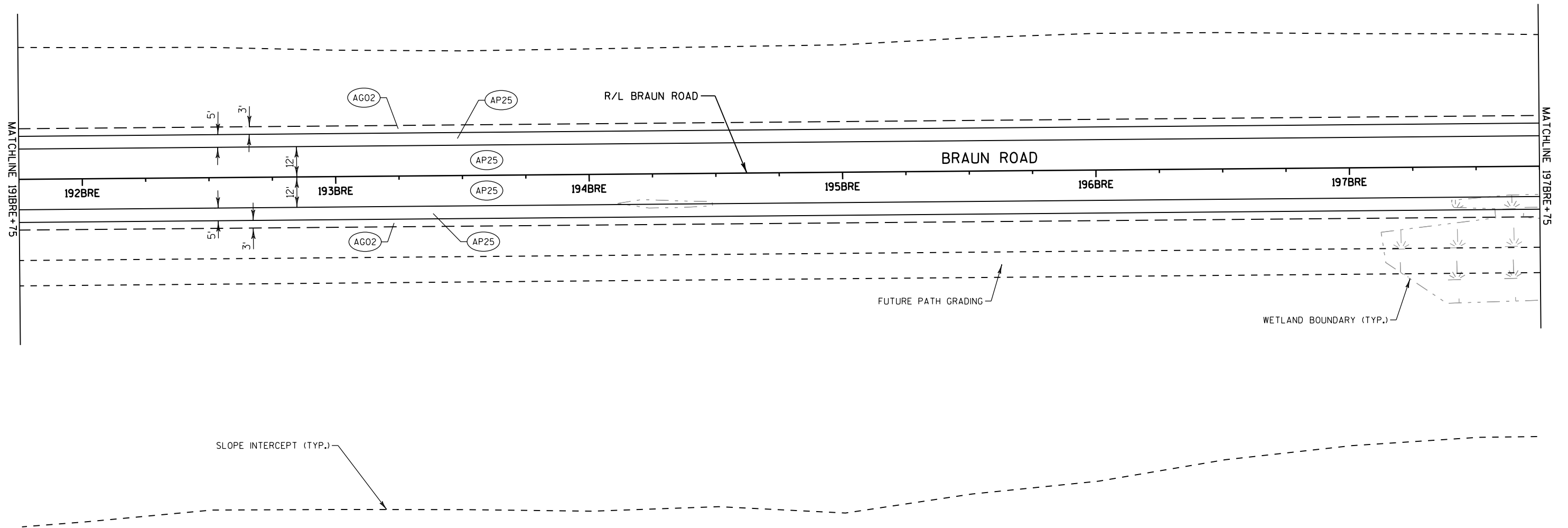
LEGEND

- AG02 BASE AGGREGATE DENSE 1 1/4-INCH
- AP25 HMA PAVEMENT TYPE 4 LT 58-28 S, 2-1/4" (UPPER LAYER)
HMA PAVEMENT TYPE 3 LT 58-28 S, 3-1/4" (LOWER LAYER)
- CG07 CONCRETE CURB AND GUTTER 30-INCH TYPE D
- CM02 CONCRETE MEDIAN SLOPED NOSE TYPE 2
- CM05 CONCRETE SIDEWALK, 5-INCH
- PV11 CONCRETE SURFACE DRAINS



LEGEND

- AG02 BASE AGGREGATE DENSE 1 1/4-INCH
- AP25 HMA PAVEMENT TYPE 4 LT 58-28 S, 2-1/4" (UPPER LAYER)
HMA PAVEMENT TYPE 3 LT 58-28 S, 3-1/4" (LOWER LAYER)

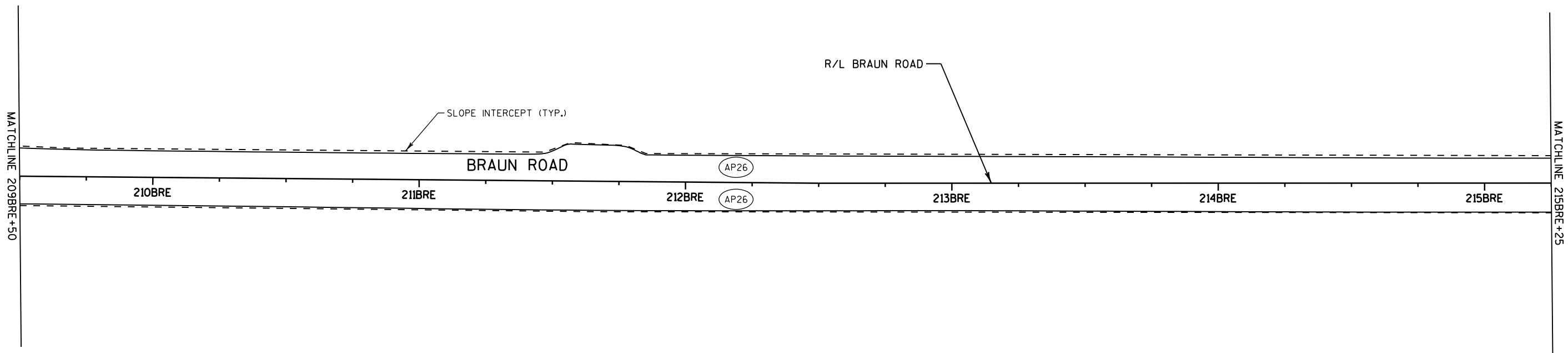
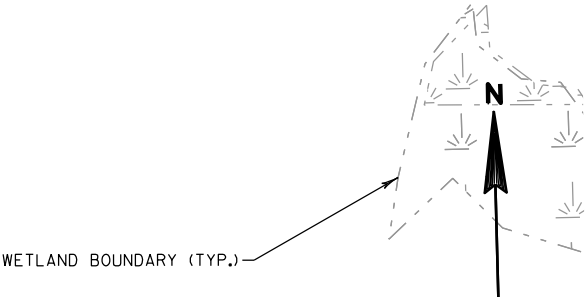


LEGEND

- AG02 BASE AGGREGATE DENSE 1 1/4-INCH
- AP25 HMA PAVEMENT TYPE 4 LT 58-28 S, 2-1/4" (UPPER LAYER)
HMA PAVEMENT TYPE 3 LT 58-28 S, 3-1/4" (LOWER LAYER)



AG02	BASE AGGREGATE DENSE 1 1/4-INCH
AP25	HMA PAVEMENT TYPE 4 LT 58-28 S, 2-1/4" (UPPER LAYER)
	HMA PAVEMENT TYPE 3 LT 58-28 S, 3-1/4" (LOWER LAYER)
AP26	HMA PAVEMENT TYPE 4 LT 58-28 S, 2" (UPPER LAYER)
	HMA PAVEMENT TYPE 3 LT 58-28 S, 2" (LOWER LAYER)
CG07	CONCRETE CURB AND GUTTER 30-INCH TYPE D
CG10	CURB RAMP TYPE 2



LEGEND

- AP26 HMA PAVEMENT TYPE 4 LT 58-28 S, 2" (UPPER LAYER)
- AP26 HMA PAVEMENT TYPE 3 LT 58-28 S, 2" (LOWER LAYER)



CITADEL
TERRACE

R/L BRAUN ROAD

BRAUN ROAD

AP26

AP26

216BRE

217BRE

218BRE

219BRE

220BRE

221BRE

MATCHLINE 215BRE+25

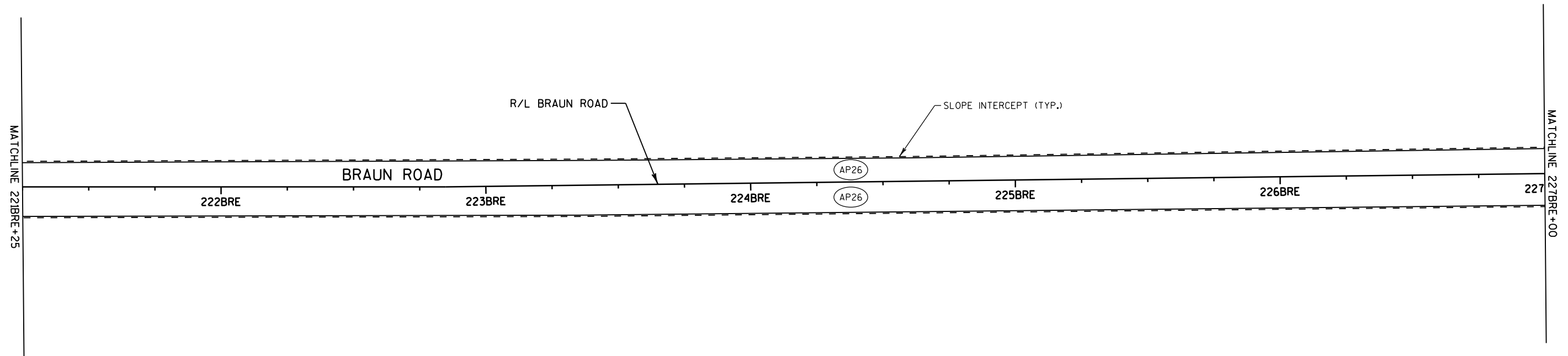
MATCHLINE 221BRE+25

SLOPE INTERCEPT (TYP.)

LEGEND

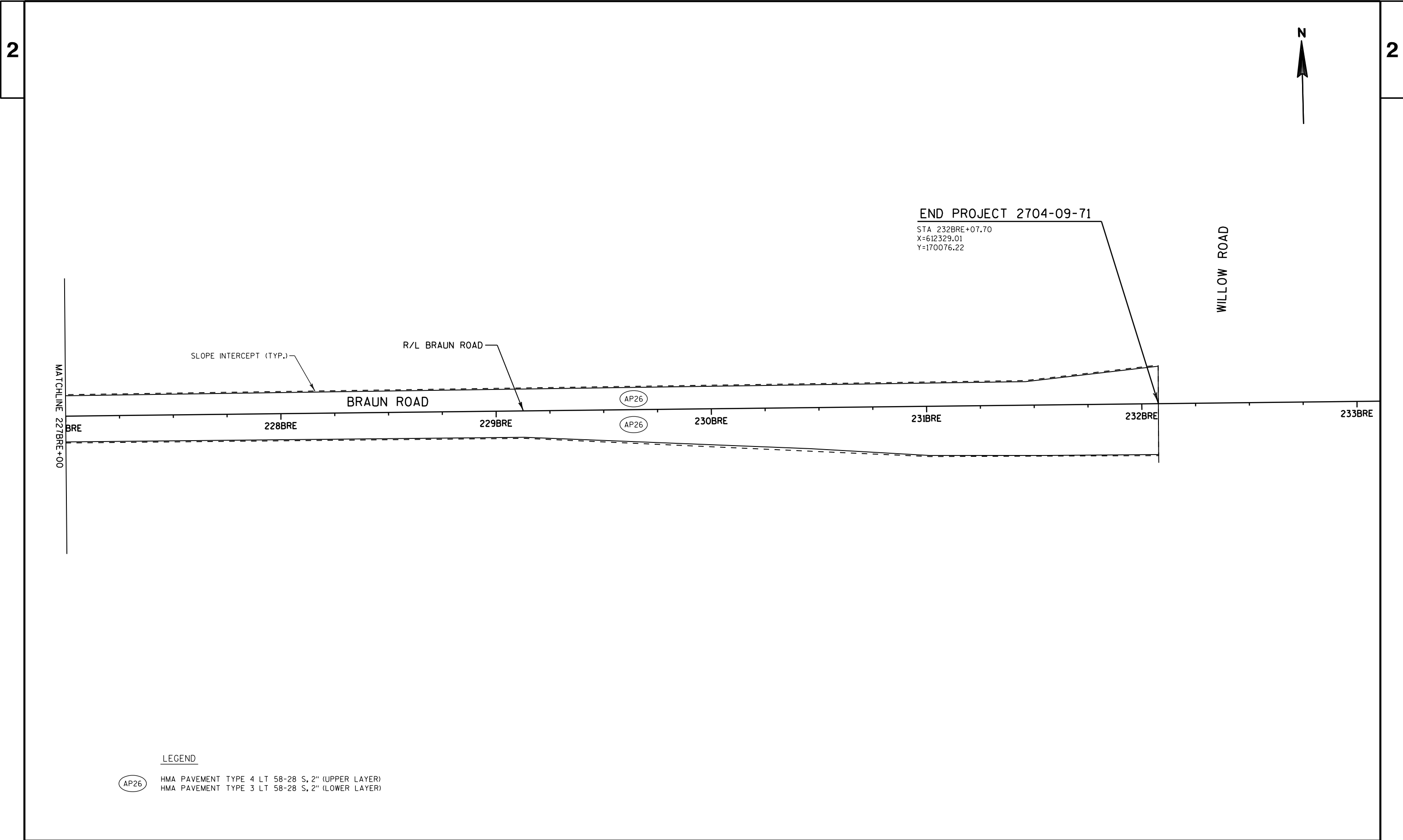
AP26

HMA PAVEMENT TYPE 4 LT 58-28 S, 2" (UPPER LAYER)
HMA PAVEMENT TYPE 3 LT 58-28 S, 2" (LOWER LAYER)



LEGEND

- AP26 HMA PAVEMENT TYPE 4 LT 58-28 S, 2" (UPPER LAYER)
- AP26 HMA PAVEMENT TYPE 3 LT 58-28 S, 2" (LOWER LAYER)



LEGEND

AP26

HMA PAVEMENT TYPE 4 LT 58-28 S, 2" (UPPER LAYER)
HMA PAVEMENT TYPE 3 LT 58-28 S, 2" (LOWER LAYER)

PROJECT NO: 2704-09-71

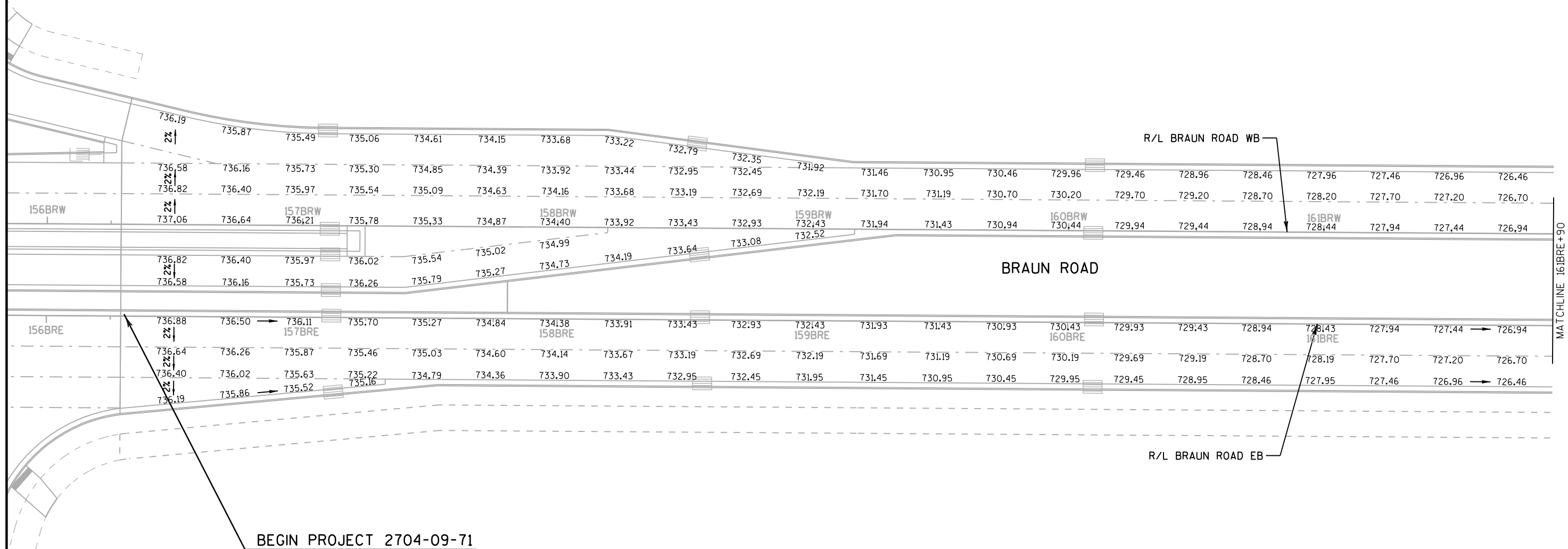
HWY: BRAUN ROAD

COUNTY: RACINE

PLAN DETAILS: BRAUN ROAD

SHEET

E



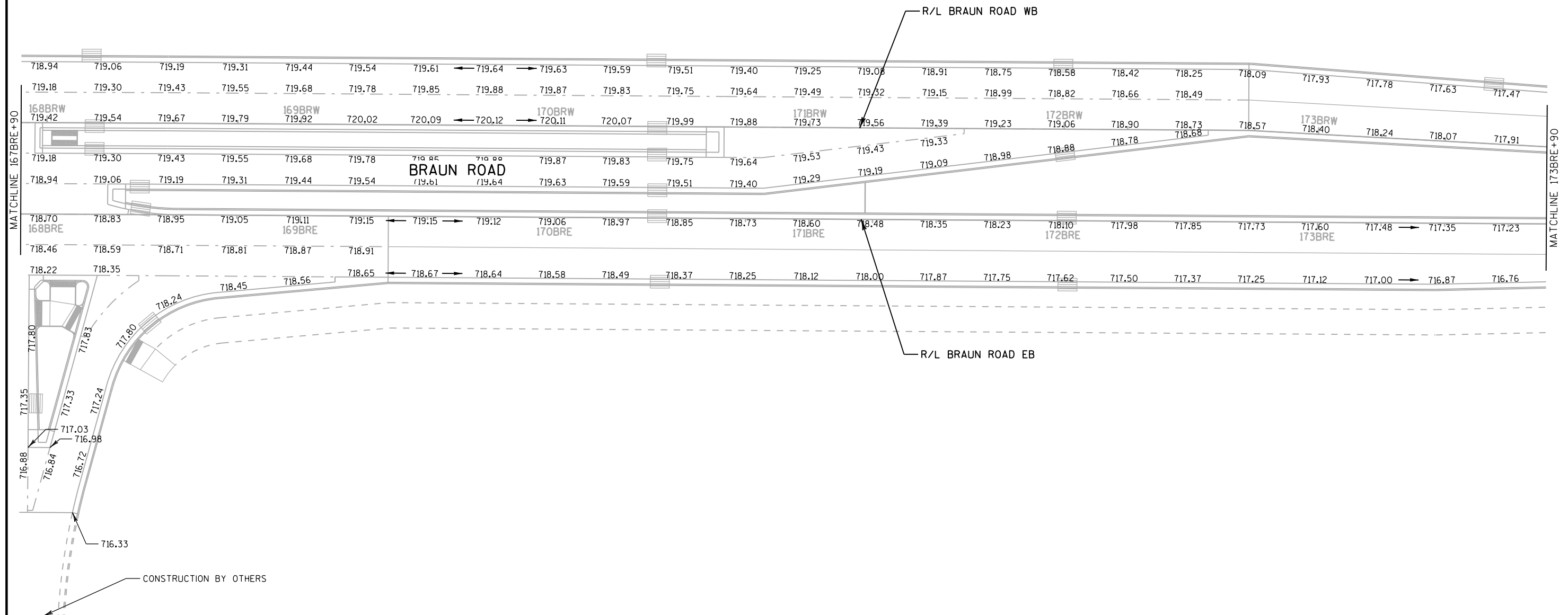
BEGIN PROJECT 2704-09-71

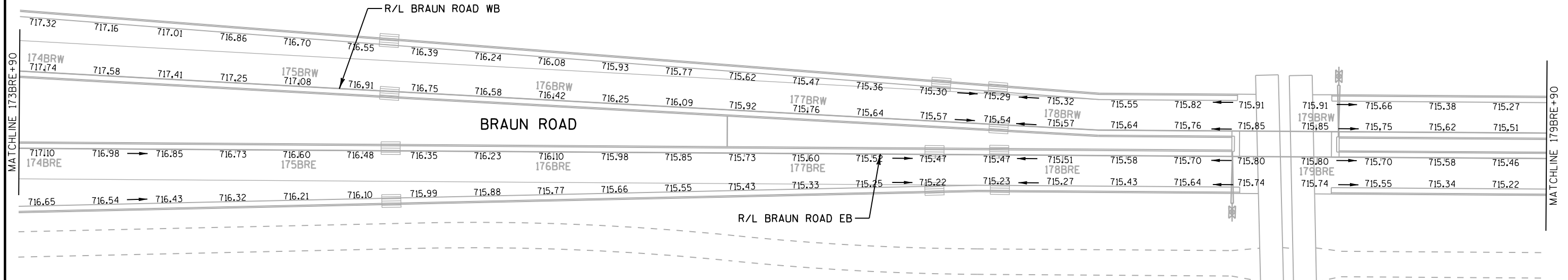
STA 156BRE+29.09
X=604752.02
Y=170209.43

NOTES:

- 1) ALL ELEVATIONS ARE FINISH GRADES

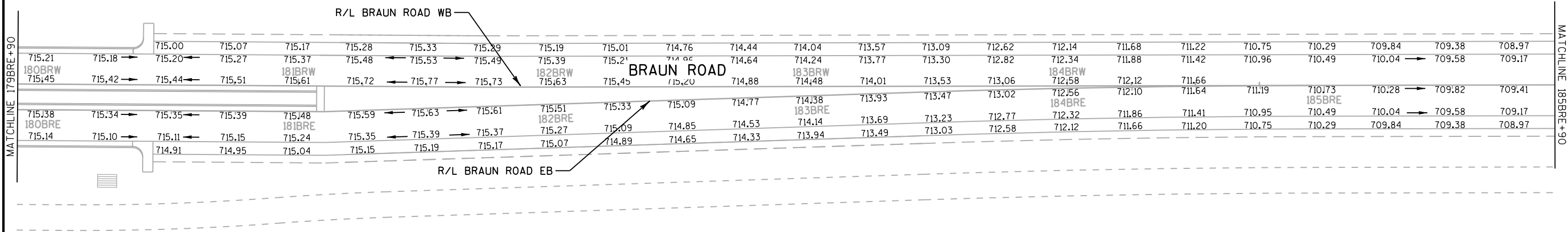






NOTES:

- 1) ALL ELEVATIONS ARE FINISH GRADES



NOTES:
1) ALL ELEVATIONS ARE FINISH GRADES



R/L BRAUN ROAD EB

MATCHLINE 185BRE+90																							MATCHLINE 191BRE+90						
	708.63	708.36	708.15	708.01	707.94	707.94	708.00	708.14	708.34	708.60	708.88	709.15	709.42	709.70	709.97	710.25	710.49	710.68	710.84	710.95	711.03	711.06		711.05	711.00				
	708.83	708.56	708.35	708.21	→	708.14	708.14	←	708.20	708.34	708.54	708.80	709.08	709.35	709.63	709.90	710.17	710.45	710.68	710.88	711.04	711.15		711.23	←	711.26	→	711.25	711.20
	709.07	708.80	708.59	708.45	→	708.38	708.38	←	708.44	708.58	708.78	709.04	709.31	709.59	709.86	710.14	710.41	710.69	710.93	711.12	711.28	711.39		711.47	←	711.50	→	711.49	711.44
	186BRE					187BRE					188BRE				189BRE				190BRE					191BRE					
	708.83	708.56	708.35	708.21	→	708.14	708.14	←	708.20	708.34	708.54	708.80	709.07	709.35	709.63	709.90	710.18	710.45	710.69	710.88	711.04	711.15		711.23	←	711.26	→	711.25	711.20
	708.63	708.36	708.15	708.01	707.94	707.94	708.00	708.14	708.34	708.60	708.87	709.15	709.42	709.70	709.98	710.25	710.49	710.68	710.84	710.95	711.03	711.06		711.05	711.00				

BRAUN ROAD

NOTES:

1) ALL ELEVATIONS ARE FINISH GRADES



MATCHLINE 191BRE+90	BRAUN ROAD																						MATCHLINE 197BRE+90		
	710.91	710.78	710.61	710.40	710.14	709.85	709.55	709.25	708.96	708.66	708.36	708.06	707.76	707.46	707.16	706.86	706.56	706.26	705.97	705.67	705.37	705.07		704.77	704.47
	711.11	710.98	→ 710.81	710.60	710.34	710.05	709.75	709.45	709.16	708.86	708.56	708.26	707.96	707.66	707.36	707.06	706.76	706.46	706.17	705.87	→ 705.57	705.27		704.97	704.67
	711.35	711.22	→ 711.05	710.84	710.58	710.29	709.99	709.69	709.40	709.10	708.80	708.50	708.20	707.90	707.60	707.30	707.00	706.70	706.40	706.11	→ 705.81	705.51		705.21	704.91
	192BRE				193BRE				194BRE				195BRE				196BRE				197BRE				
	711.11	710.98	→ 710.81	710.60	710.34	710.05	709.75	709.45	709.15	708.86	708.56	708.26	707.96	707.66	707.36	707.06	706.76	706.46	706.16	705.87	→ 705.57	705.27		704.97	704.67
	710.91	710.78	710.61	710.40	710.14	709.85	709.55	709.25	708.95	708.66	708.36	708.06	707.76	707.46	707.16	706.86	706.56	706.26	705.96	705.67	705.37	705.07		704.77	704.47

R/L BRAUN ROAD EB

NOTES:

1) ALL ELEVATIONS ARE FINISH GRADES



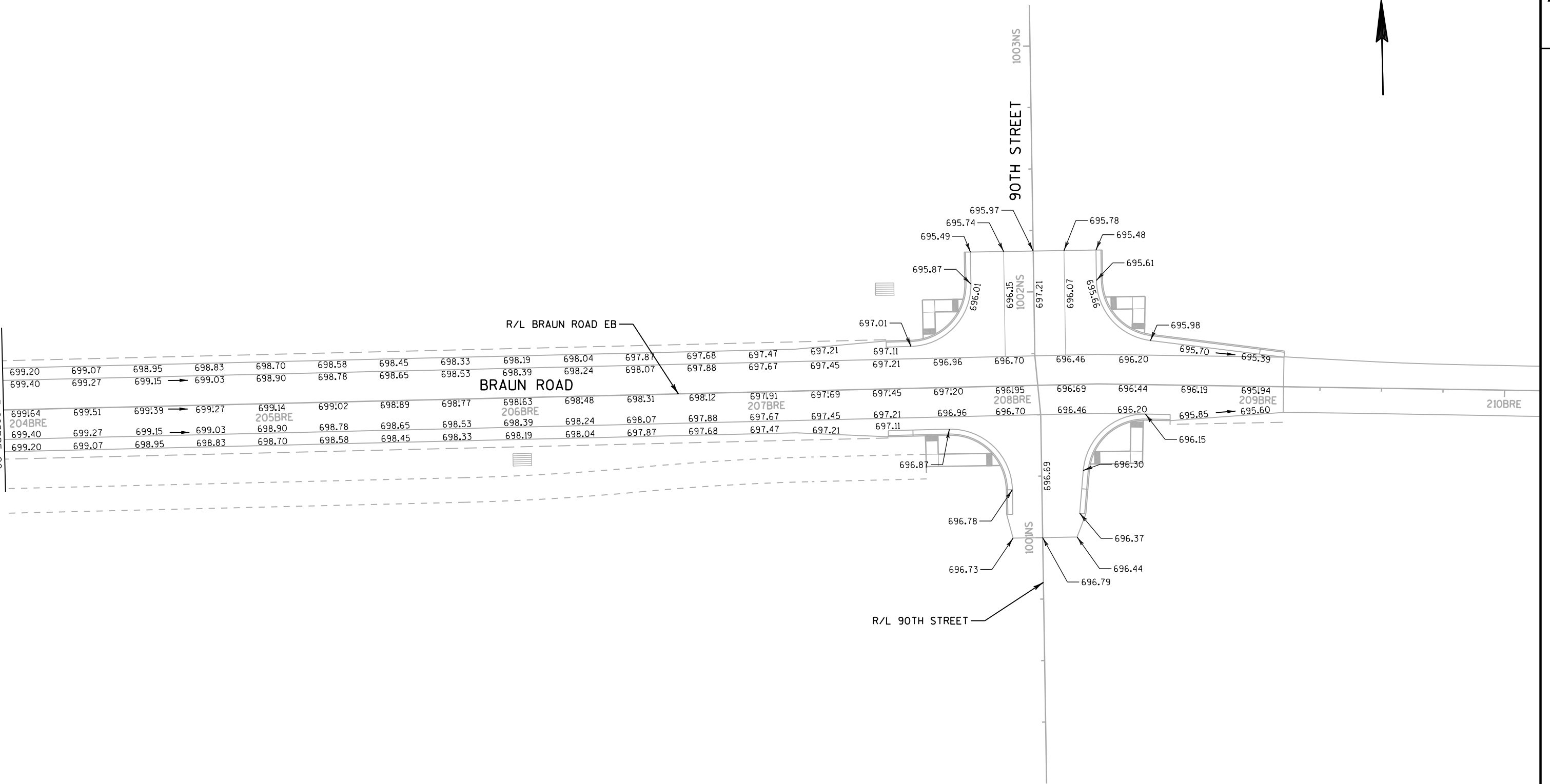
MATCHLINE 197BRE+90	BRAUN ROAD																								MATCHLINE 203BRE+90
	704.17	703.87	703.57	703.27	702.97	702.67	702.38	702.08	701.78	701.51	701.25	701.02	700.81	700.63	700.46	700.32	700.19	700.07	699.94	699.82	699.69	699.57	699.45	699.32	
	704.37	704.07	703.77	→ 703.47	703.17	702.88	702.58	702.28	701.98	701.71	701.45	701.22	701.01	700.83	700.66	700.52	700.39	700.27	700.14	700.02	699.89	699.77	→ 699.65	699.52	
	704.61	704.31	704.01	→ 703.71	703.41	703.11	702.82	702.52	702.22	701.95	701.69	701.46	701.25	701.07	700.90	700.76	700.63	700.51	700.38	700.26	700.13	700.01	→ 699.89	699.76	
	198BRE				199BRE				200BRE			201BRE				202BRE				203BRE					
	704.37	704.07	703.77	→ 703.47	703.17	702.87	702.58	702.28	701.98	701.71	701.45	701.22	701.01	700.83	700.66	700.52	700.39	700.27	700.14	700.02	699.89	699.77	→ 699.65	699.52	
	704.17	703.87	703.57	703.27	702.97	702.67	702.38	702.08	701.78	701.51	701.25	701.02	700.81	700.63	700.46	700.32	700.19	700.07	699.94	699.82	699.69	699.57	699.45	699.32	



NOTES:

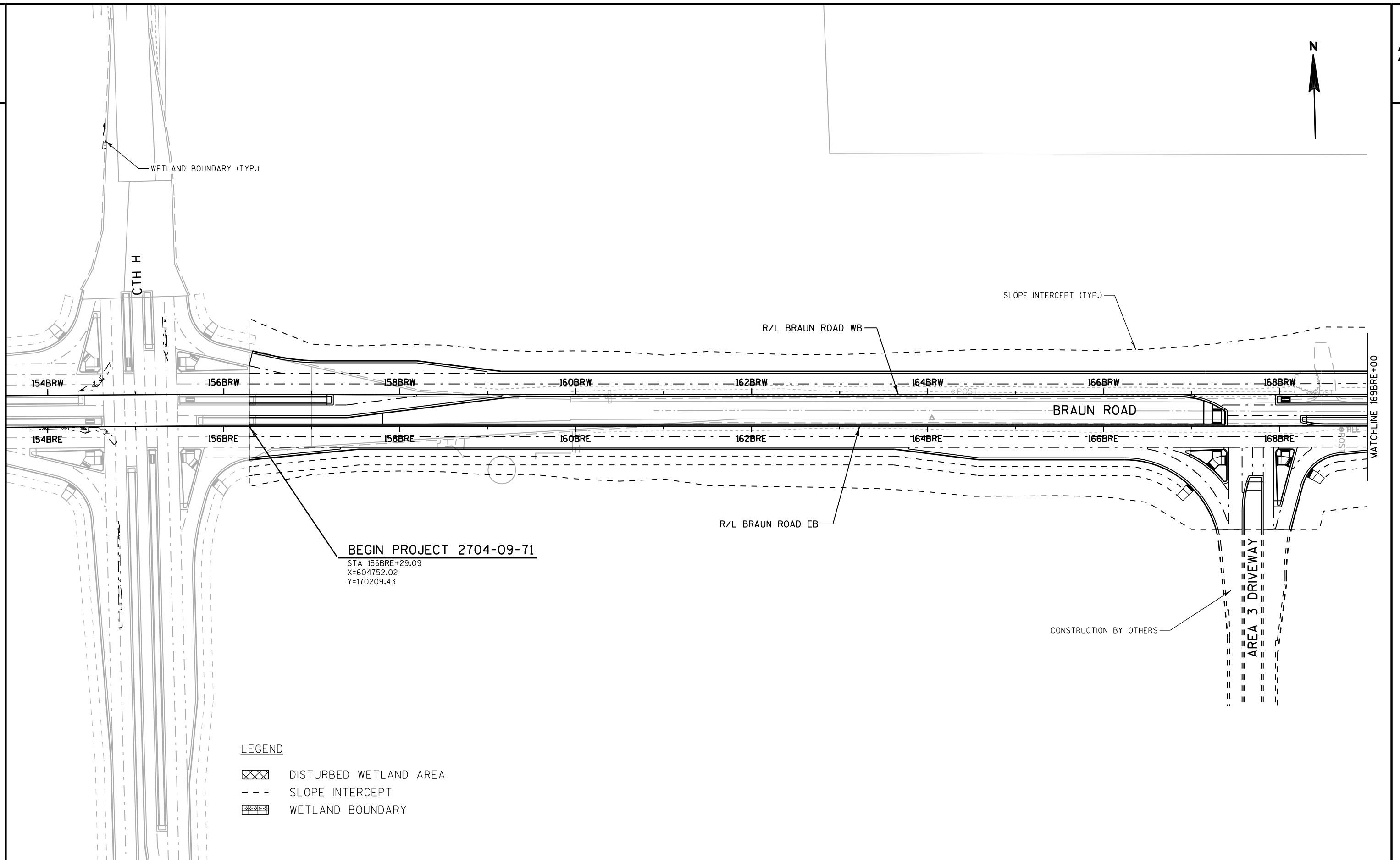
- 1) ALL ELEVATIONS ARE FINISH GRADES

MATCHLINE 203BRE+90

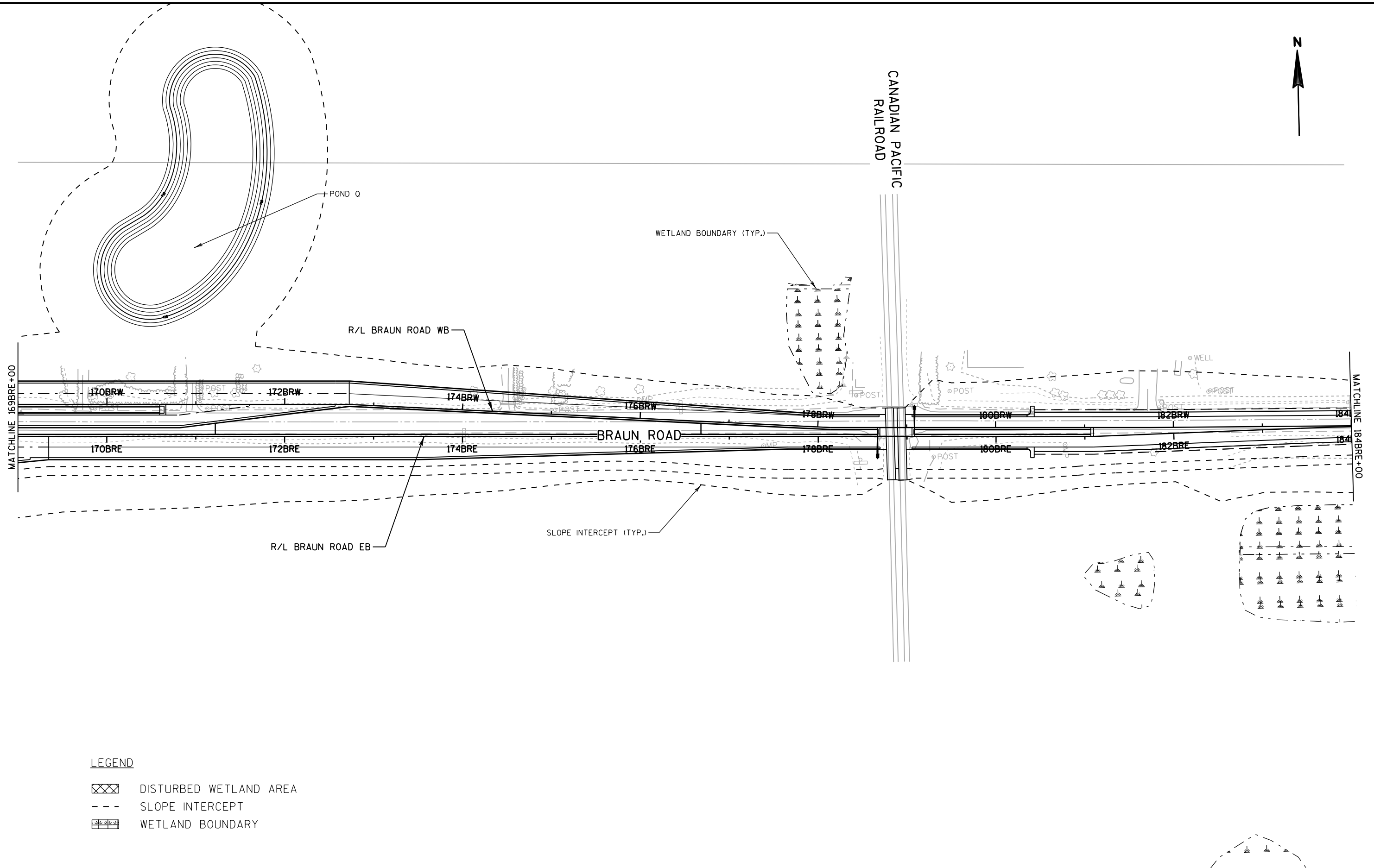


NOTES:

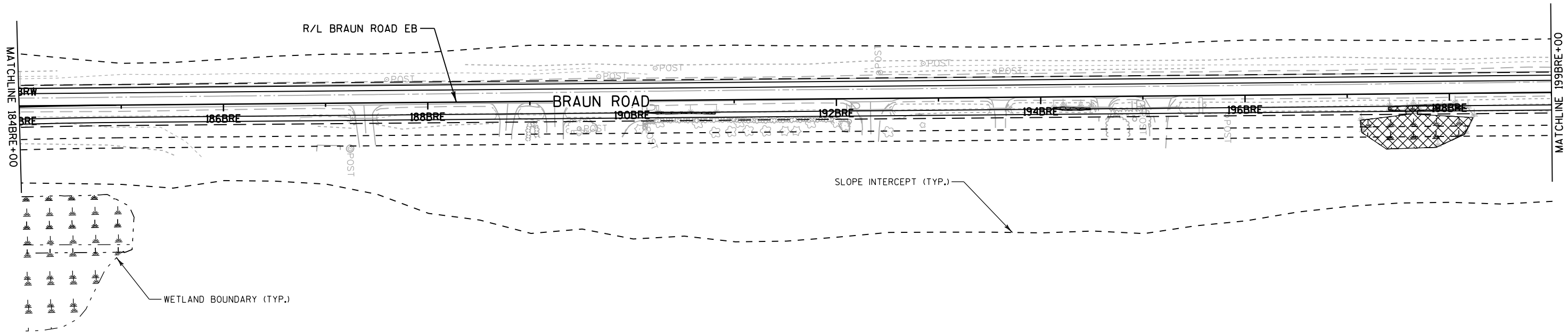
- 1) ALL ELEVATIONS ARE FINISH GRADES



PROJECT NO: 2704-09-71	HWY: BRAUN ROAD	COUNTY: RACINE	DISTURBED WETLAND AREAS	SHEET	E
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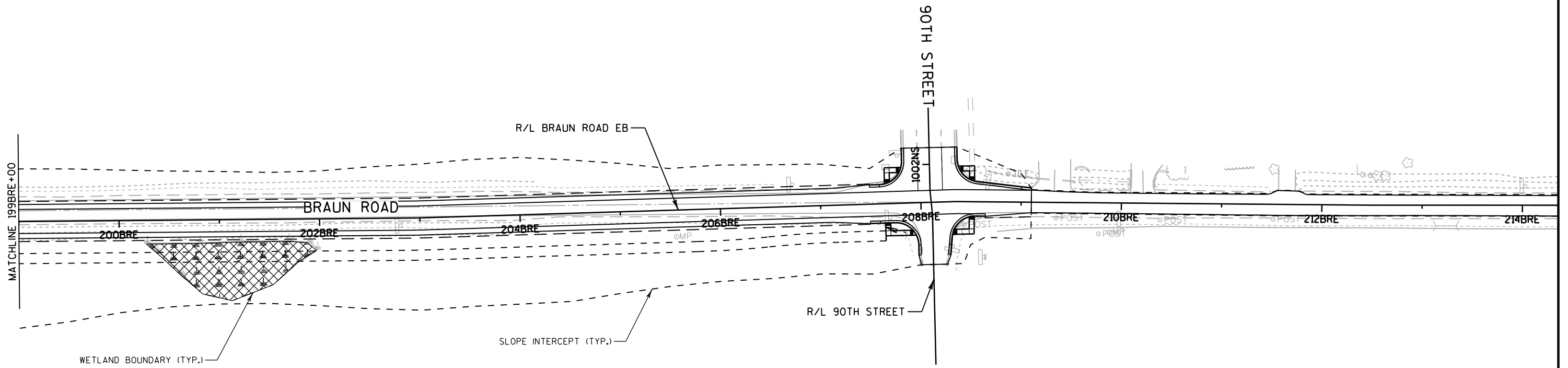


- LEGEND
- DISTURBED WETLAND AREA
 - SLOPE INTERCEPT
 - WETLAND BOUNDARY



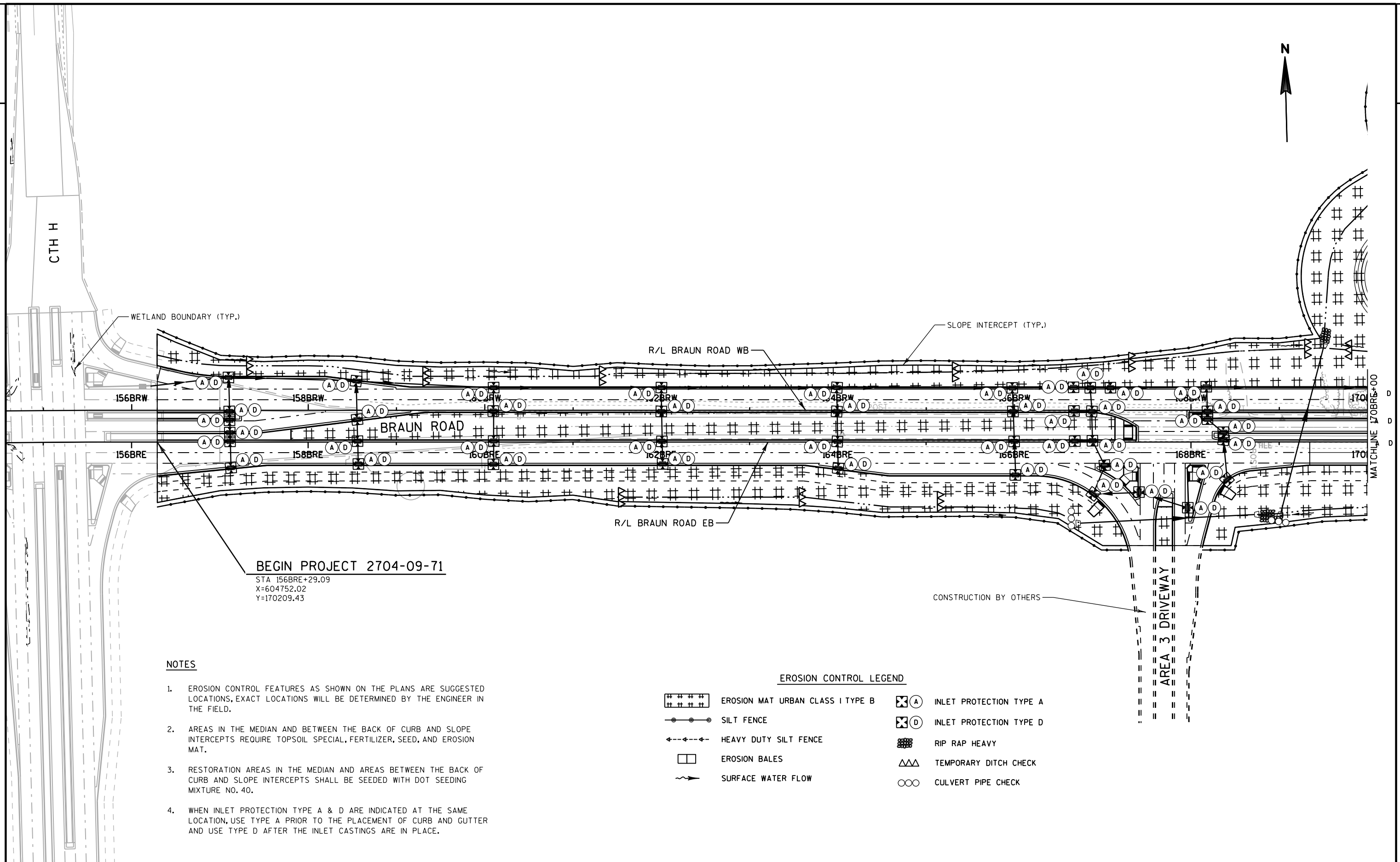
LEGEND

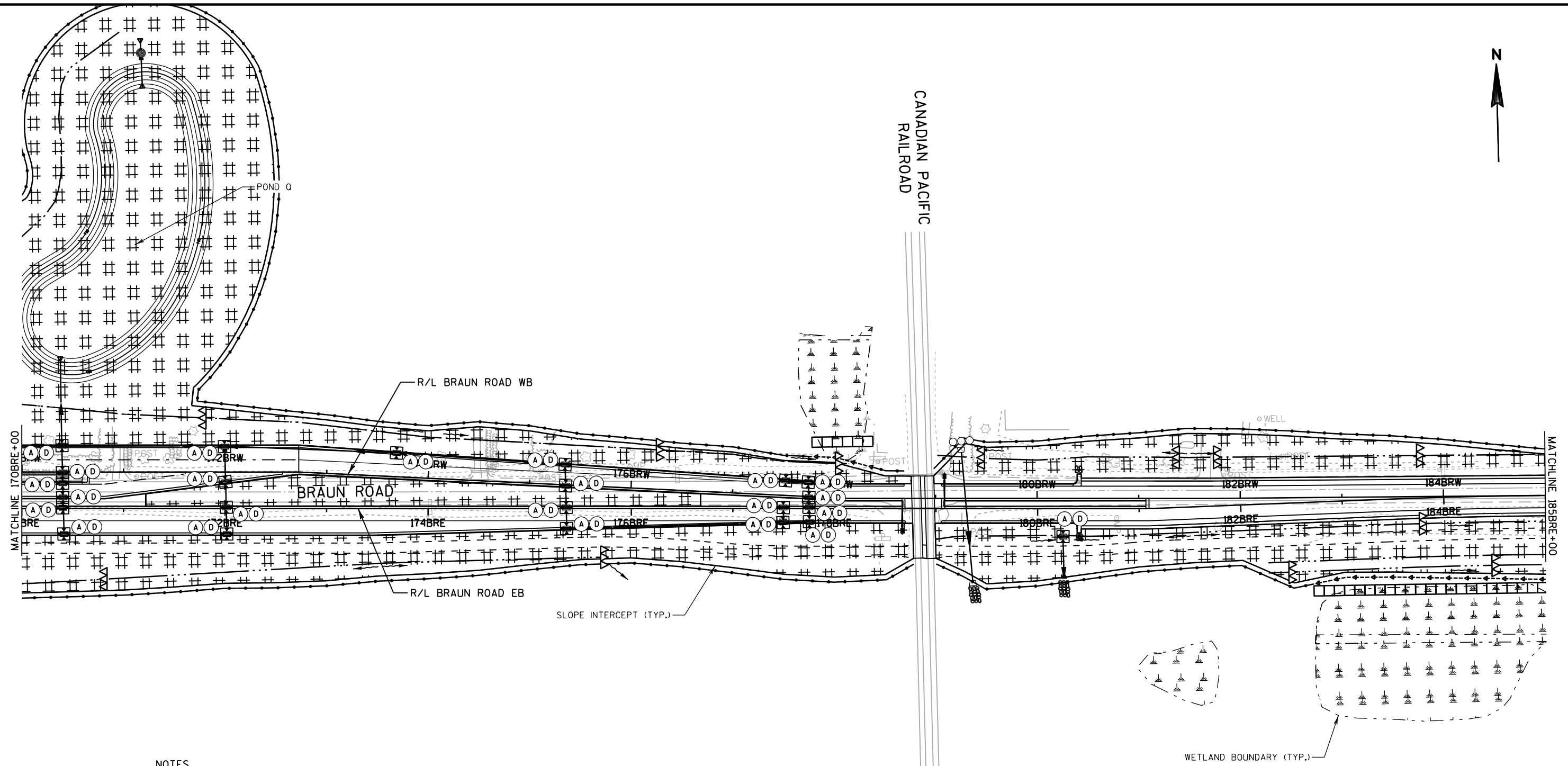
-  DISTURBED WETLAND AREA
-  SLOPE INTERCEPT
-  WETLAND BOUNDARY



LEGEND

-  DISTURBED WETLAND AREA
-  SLOPE INTERCEPT
-  WETLAND BOUNDARY



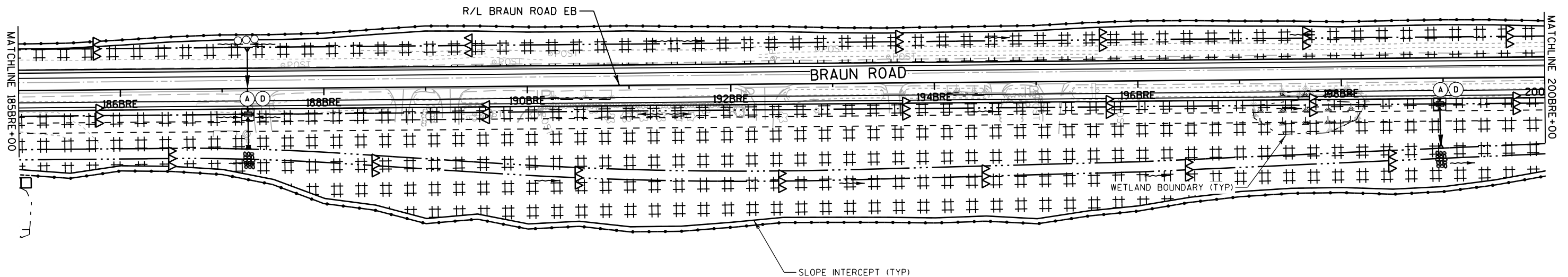


NOTES

1. EROSION CONTROL FEATURES AS SHOWN ON THE PLANS ARE SUGGESTED LOCATIONS, EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.
2. AREAS IN THE MEDIAN AND BETWEEN THE BACK OF CURB AND SLOPE INTERCEPTS REQUIRE TOPSOIL SPECIAL, FERTILIZER, SEED, AND EROSION MAT.
3. RESTORATION AREAS IN THE MEDIAN AND AREAS BETWEEN THE BACK OF CURB AND SLOPE INTERCEPTS SHALL BE SEEDED WITH DOT SEEDING MIXTURE NO. 40.
4. WHEN INLET PROTECTION TYPE A & D ARE INDICATED AT THE SAME LOCATION, USE TYPE A PRIOR TO THE PLACEMENT OF CURB AND GUTTER AND USE TYPE D AFTER THE INLET CASTINGS ARE IN PLACE.

EROSION CONTROL LEGEND

	EROSION MAT URBAN CLASS I TYPE B		INLET PROTECTION TYPE A
	SILT FENCE		INLET PROTECTION TYPE D
	HEAVY DUTY SILT FENCE		RIP RAP HEAVY
	EROSION BALES		TEMPORARY DITCH CHECK
	SURFACE WATER FLOW		CULVERT PIPE CHECK

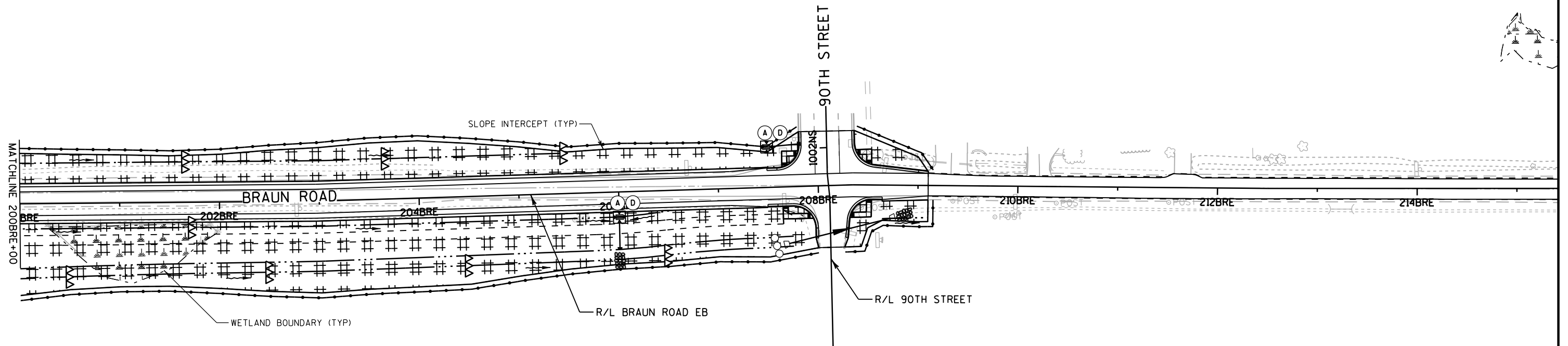


NOTES

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EROSION CONTROL LEGEND

	EROSION MAT URBAN CLASS I TYPE B		INLET PROTECTION TYPE A
	SILT FENCE		INLET PROTECTION TYPE D
	HEAVY DUTY SILT FENCE		RIP RAP HEAVY
	EROSION BALES		TEMPORARY DITCH CHECK
	SURFACE WATER FLOW		CULVERT PIPE CHECK

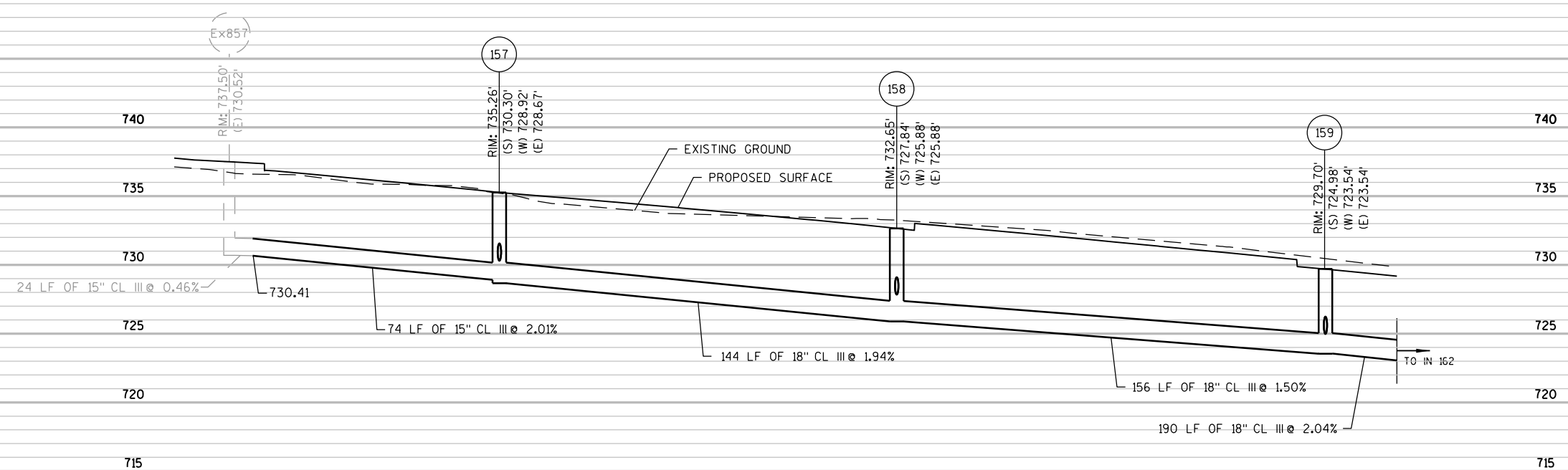
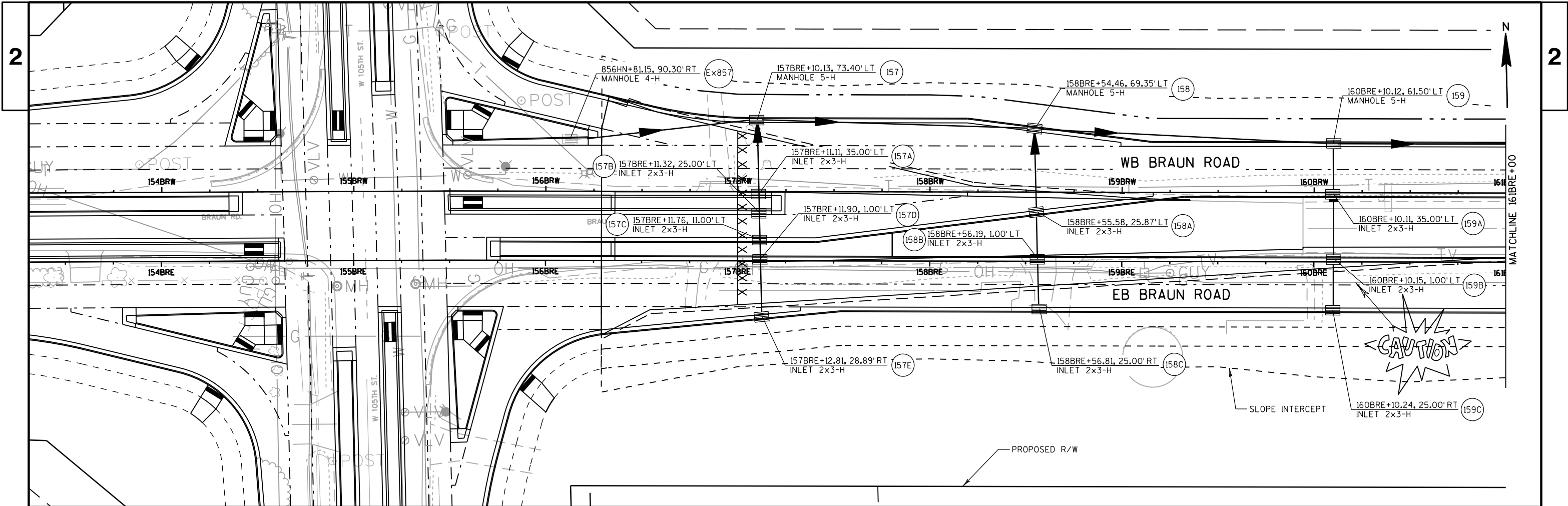


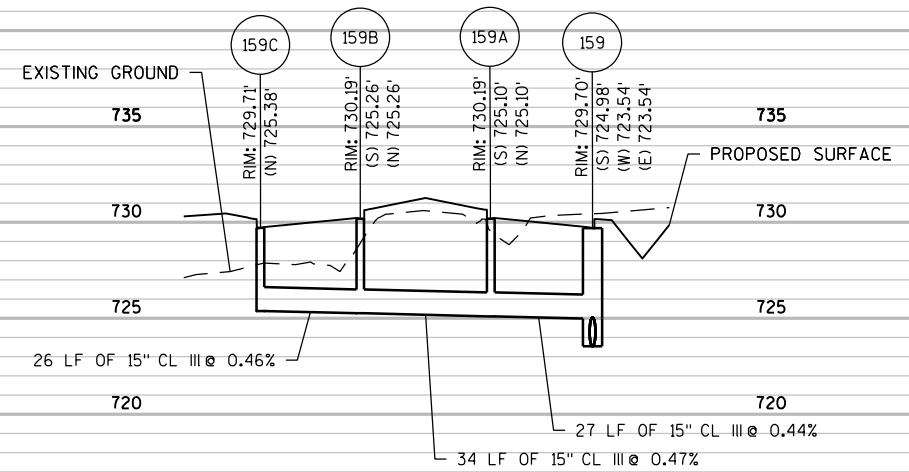
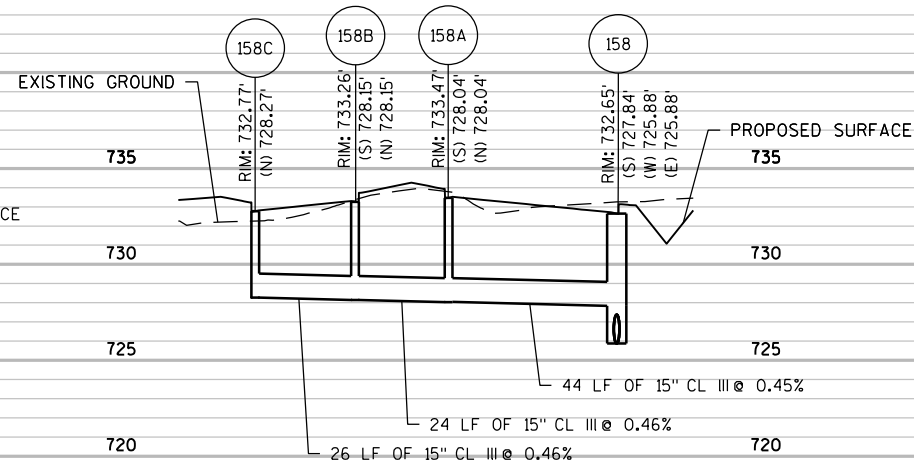
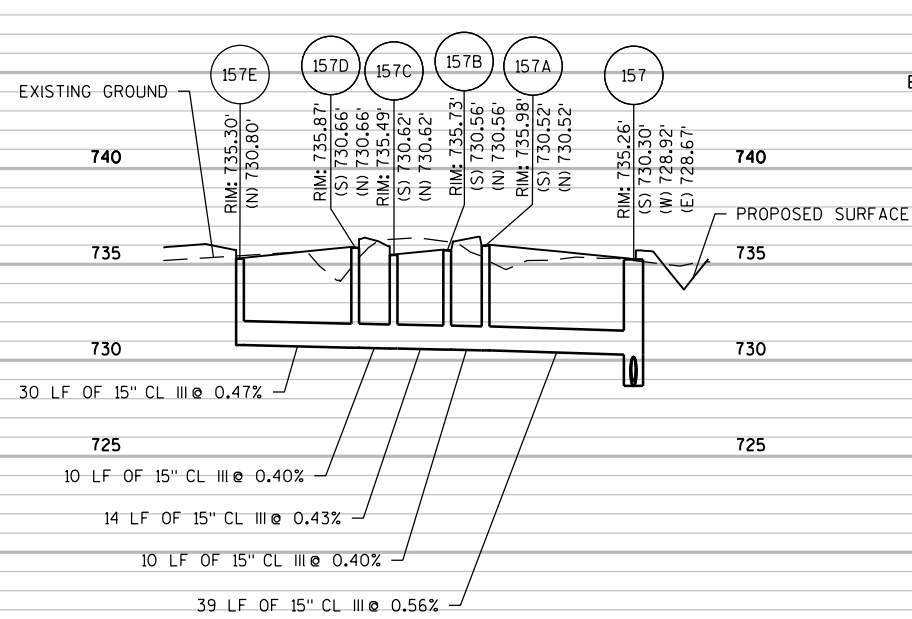
NOTES

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EROSION CONTROL LEGEND

	EROSION MAT URBAN CLASS I TYPE B		INLET PROTECTION TYPE A
	SILT FENCE		INLET PROTECTION TYPE D
	HEAVY DUTY SILT FENCE		RIP RAP HEAVY
	EROSION BALES		TEMPORARY DITCH CHECK
	SURFACE WATER FLOW		CULVERT PIPE CHECK





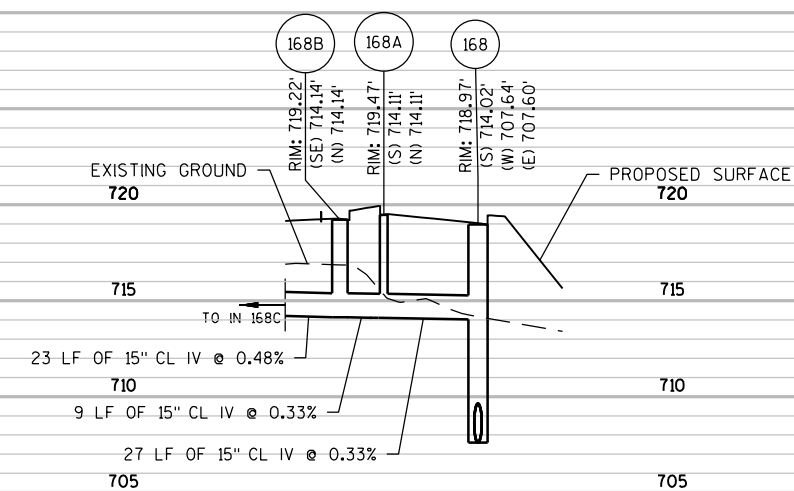
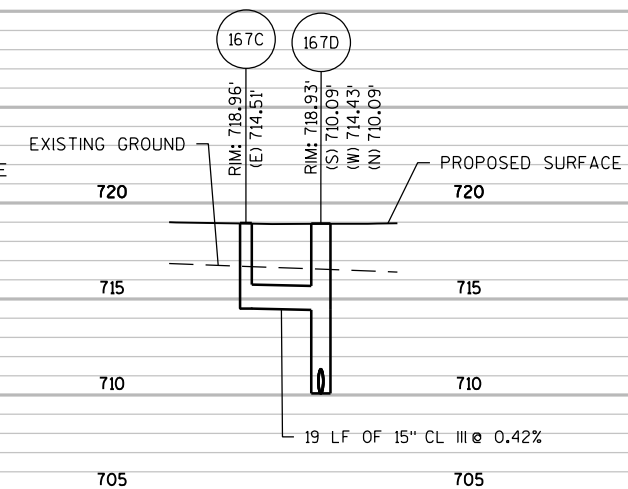
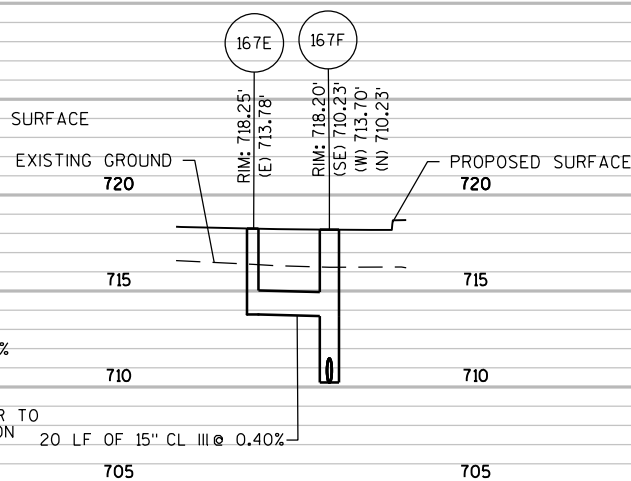
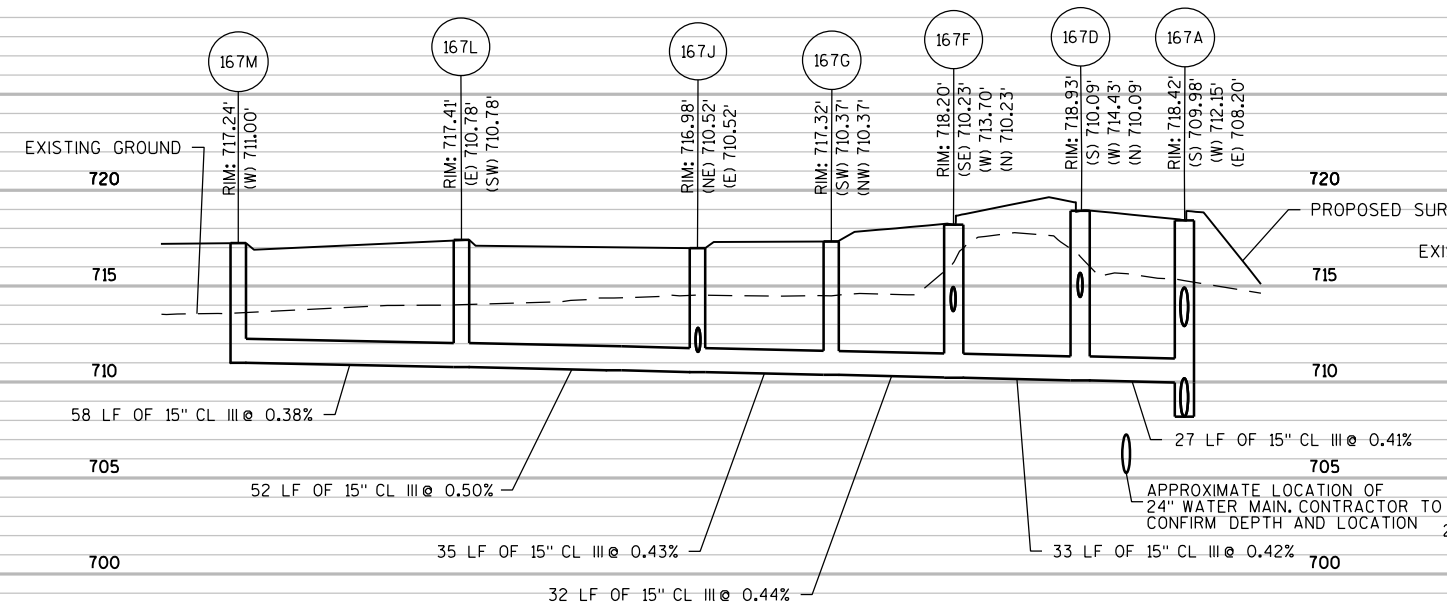
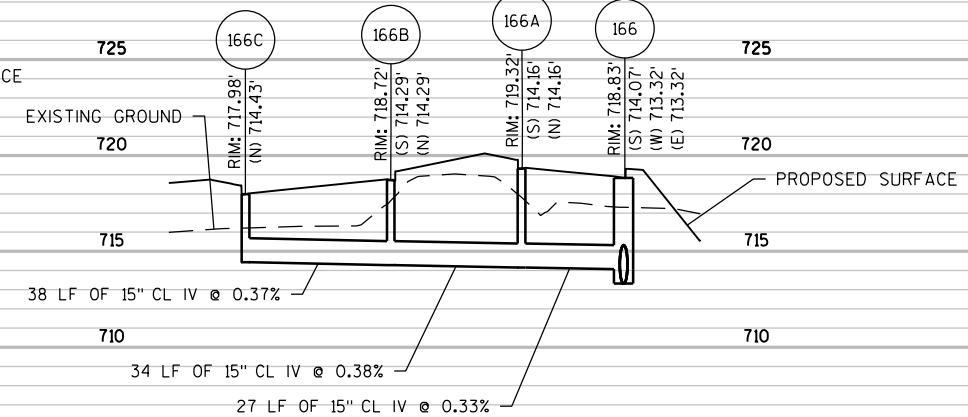
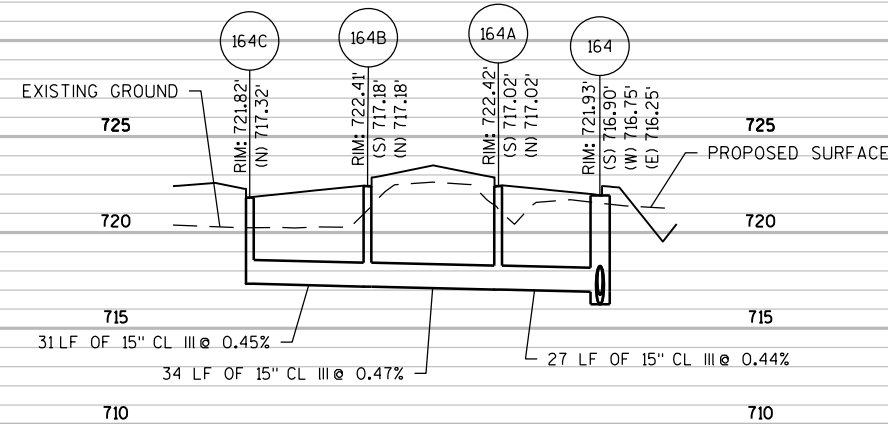
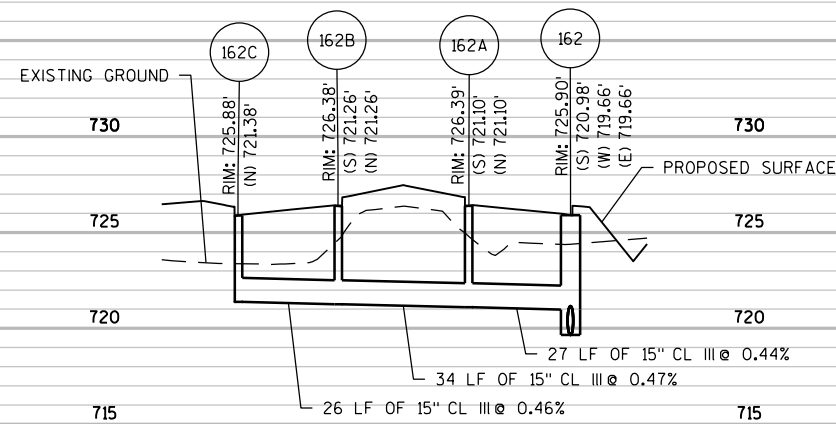
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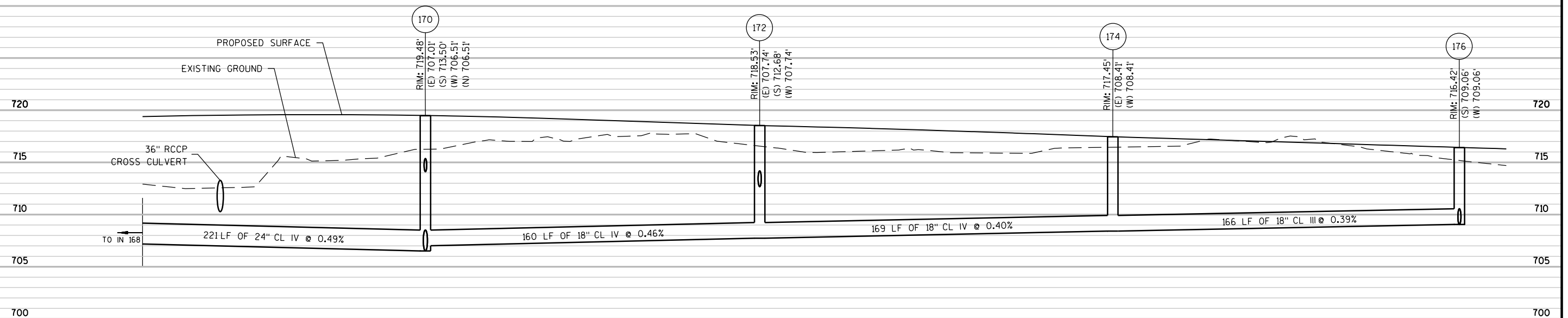
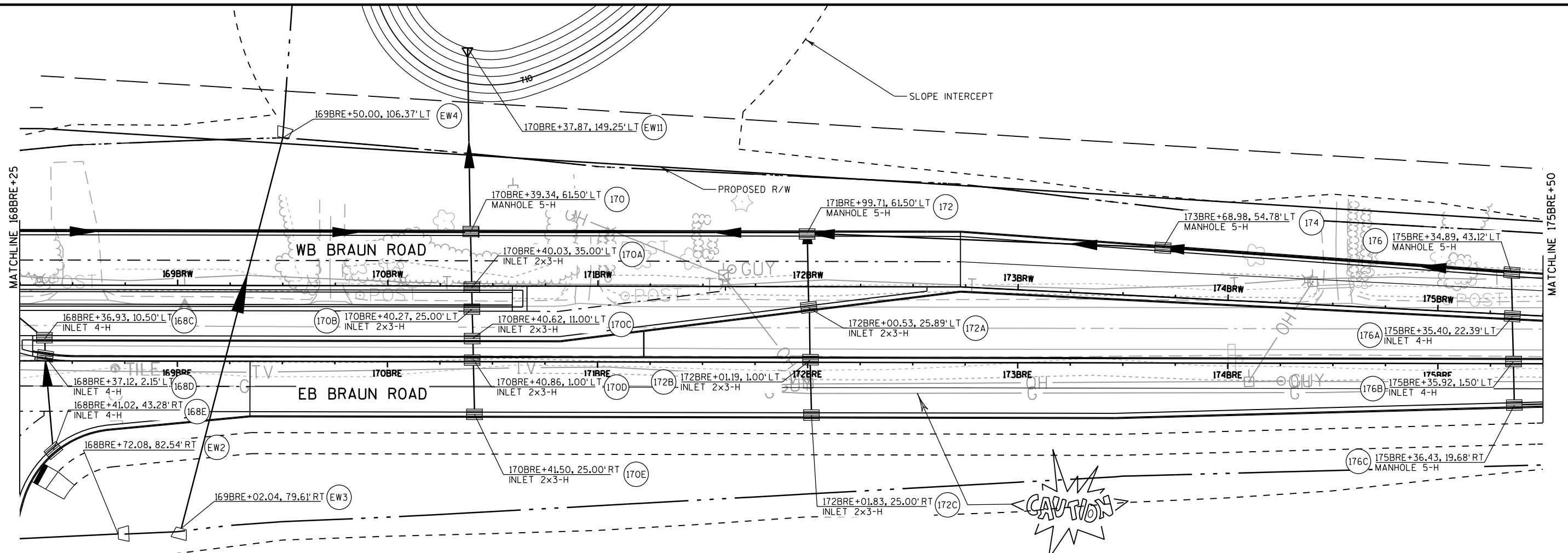
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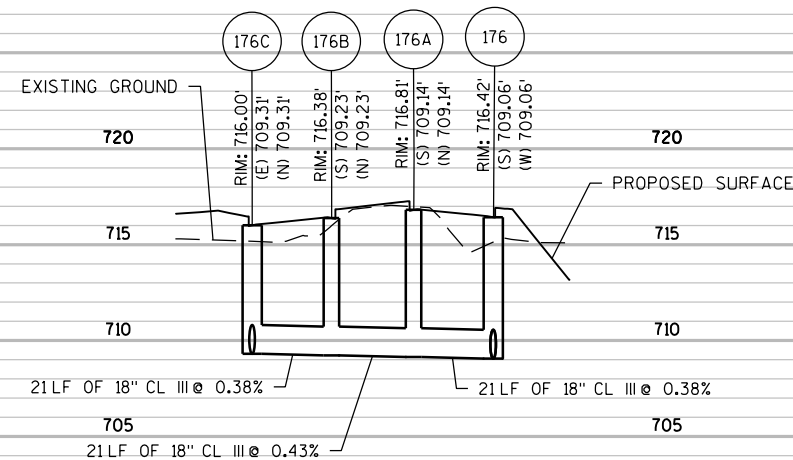
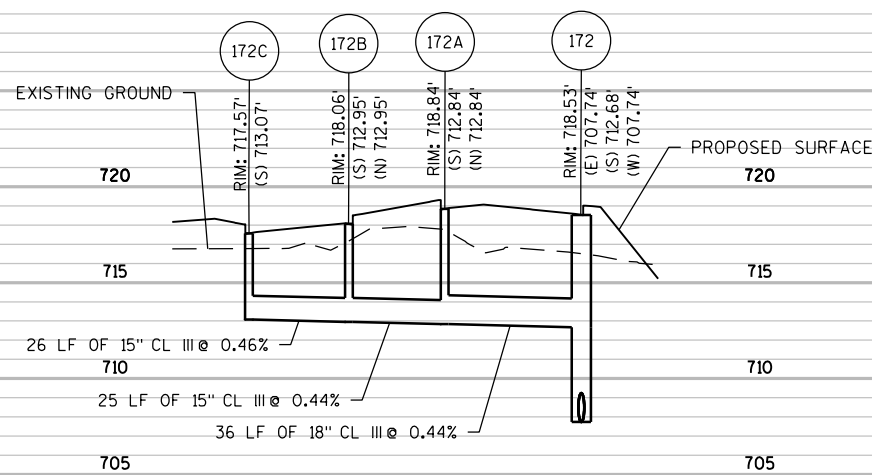
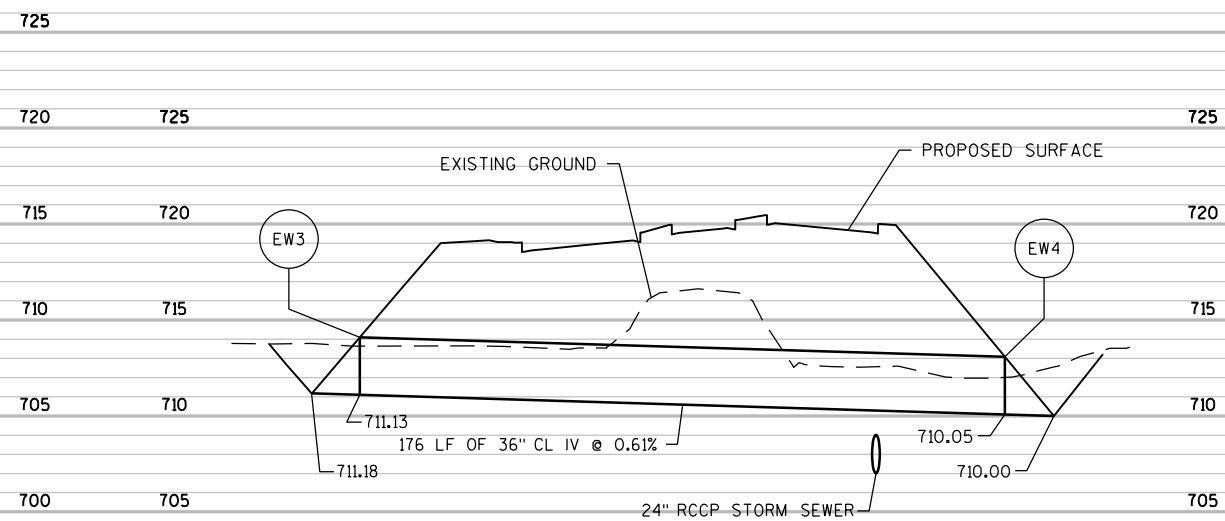
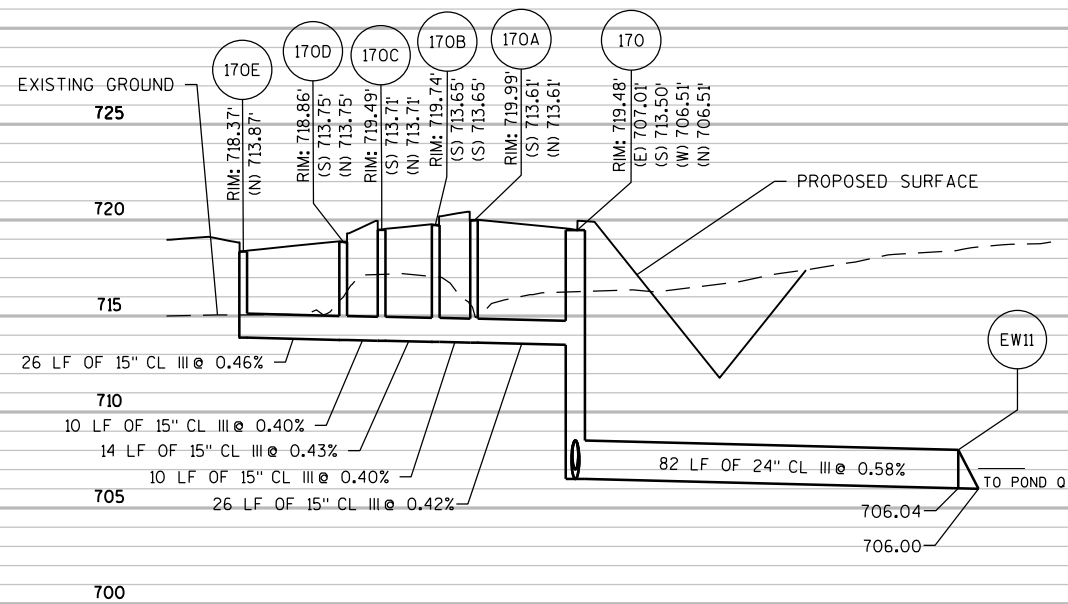
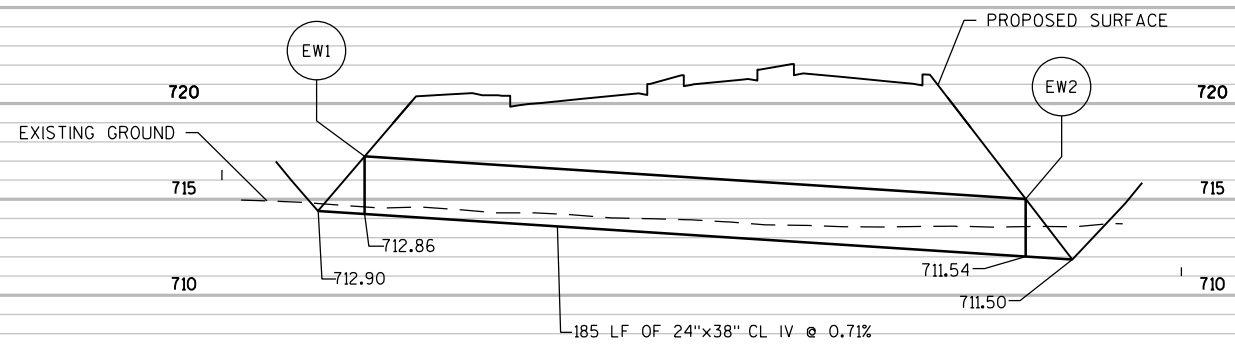
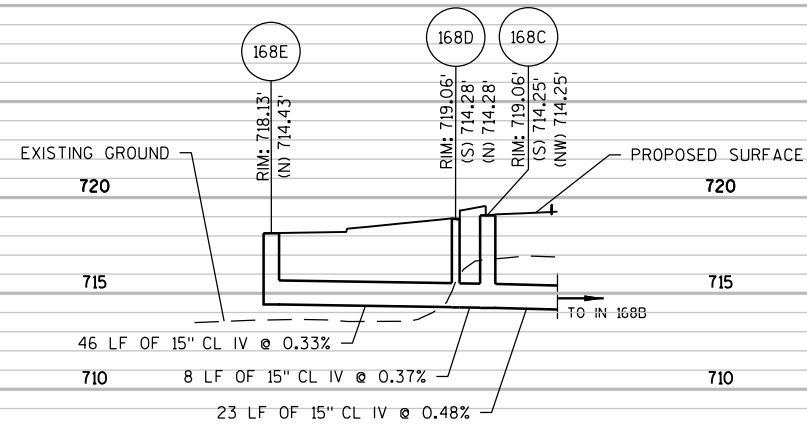


E

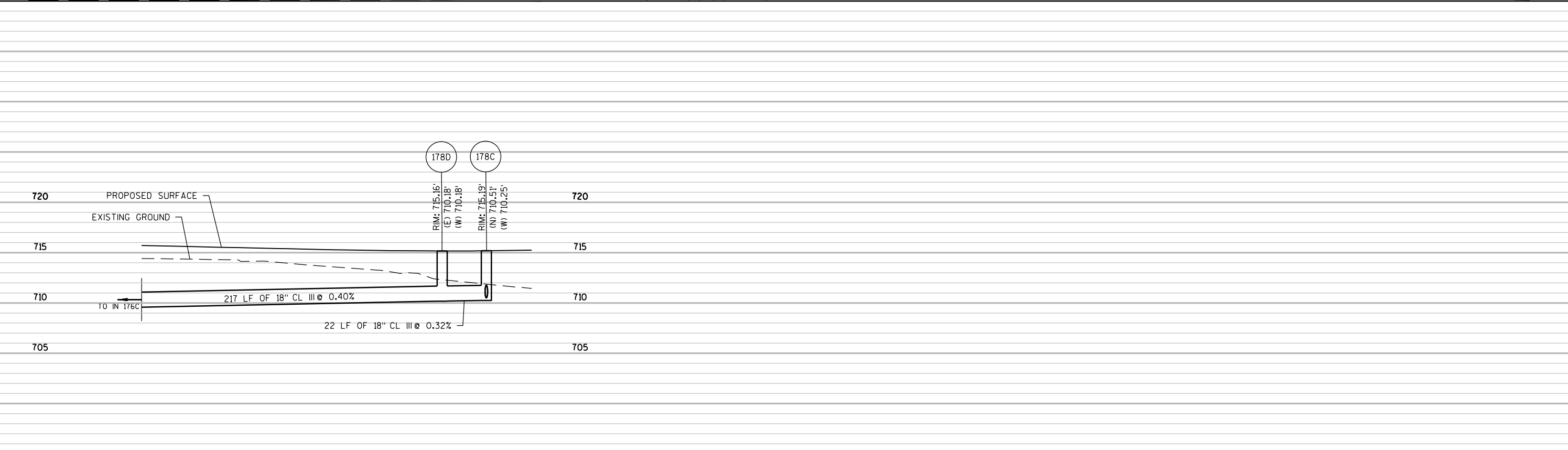
WISDOT/CADDS SHEET 42

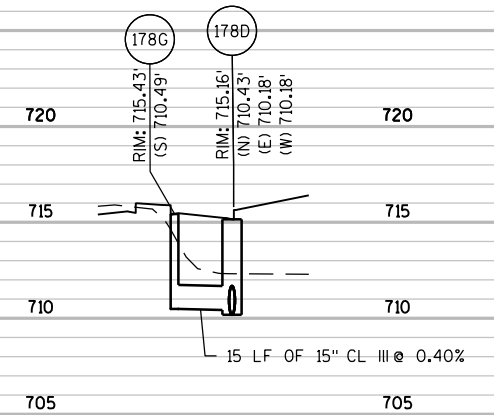
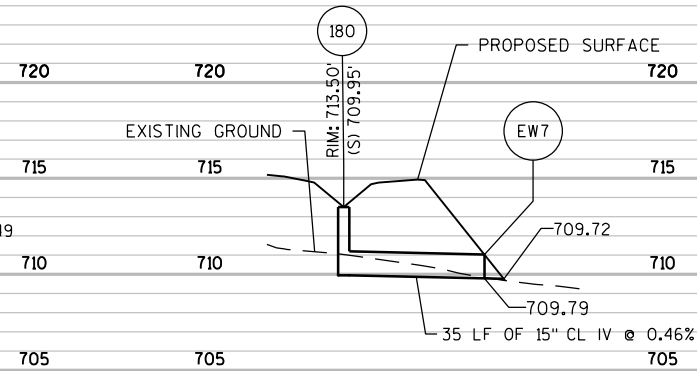
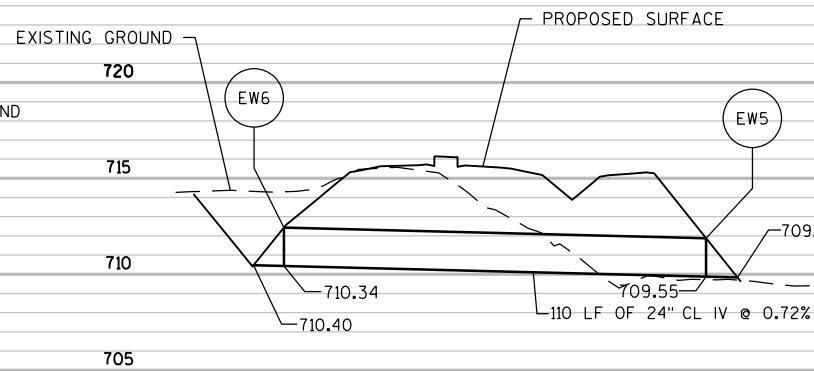
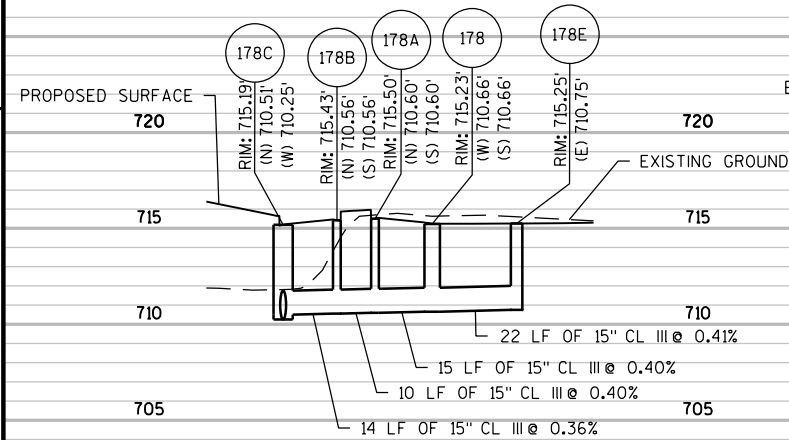


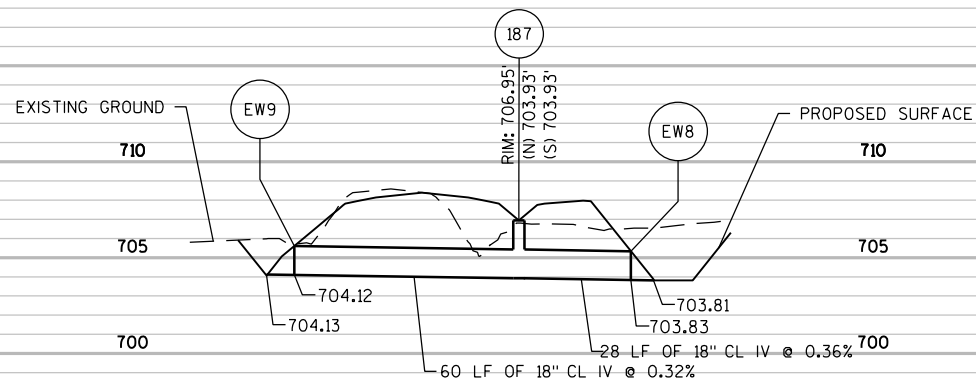
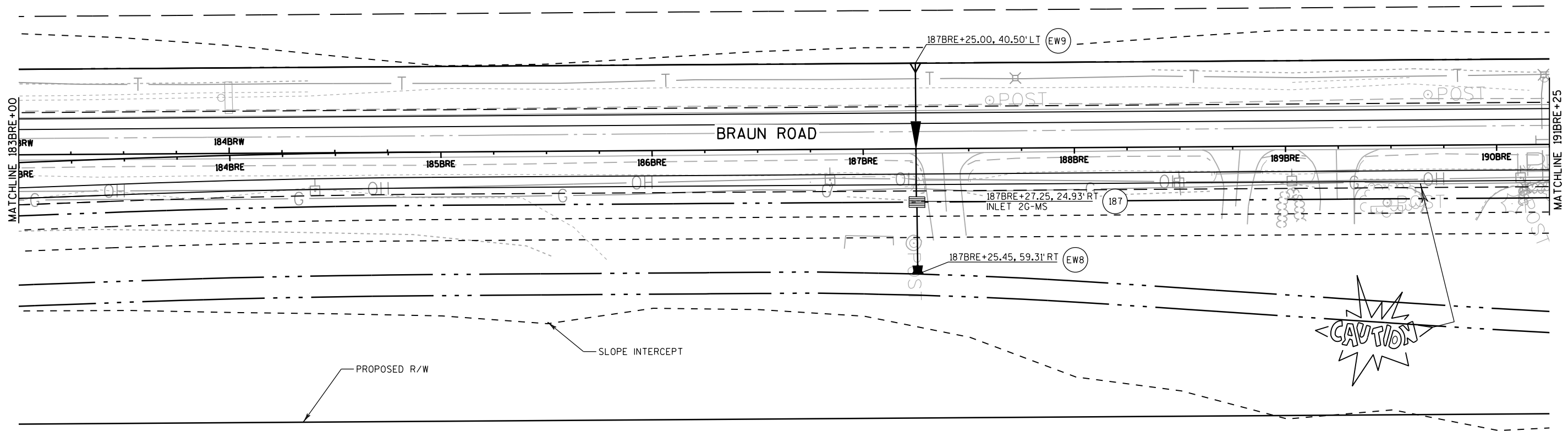


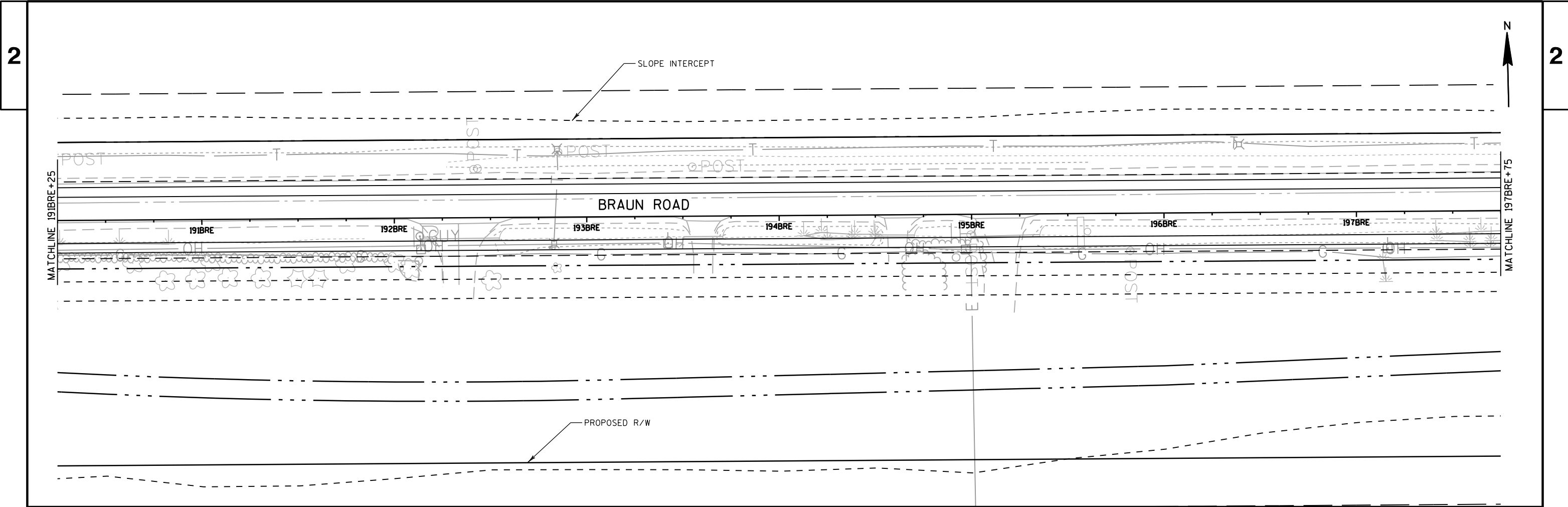


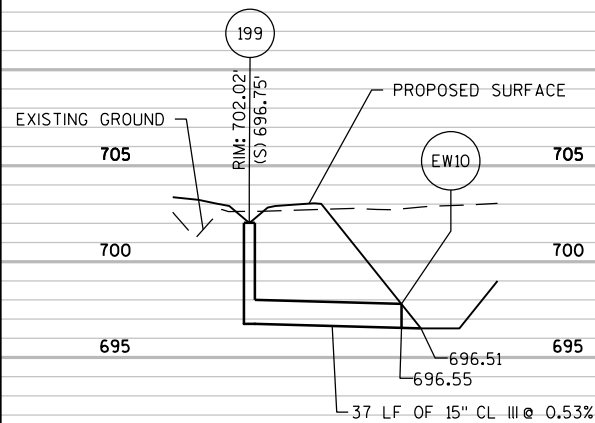
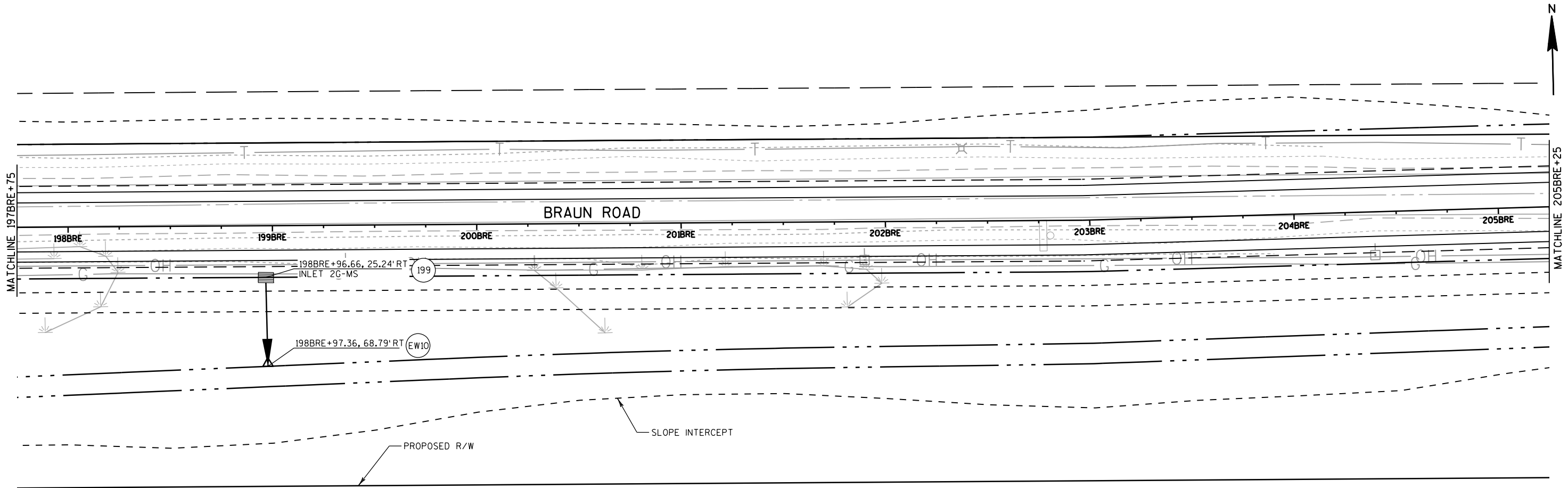
MH 170M PROFILE WILL BE ADDED ONCE SURVEY IS COMPLETED. CAN BE FOUND IN QUANTITIES.



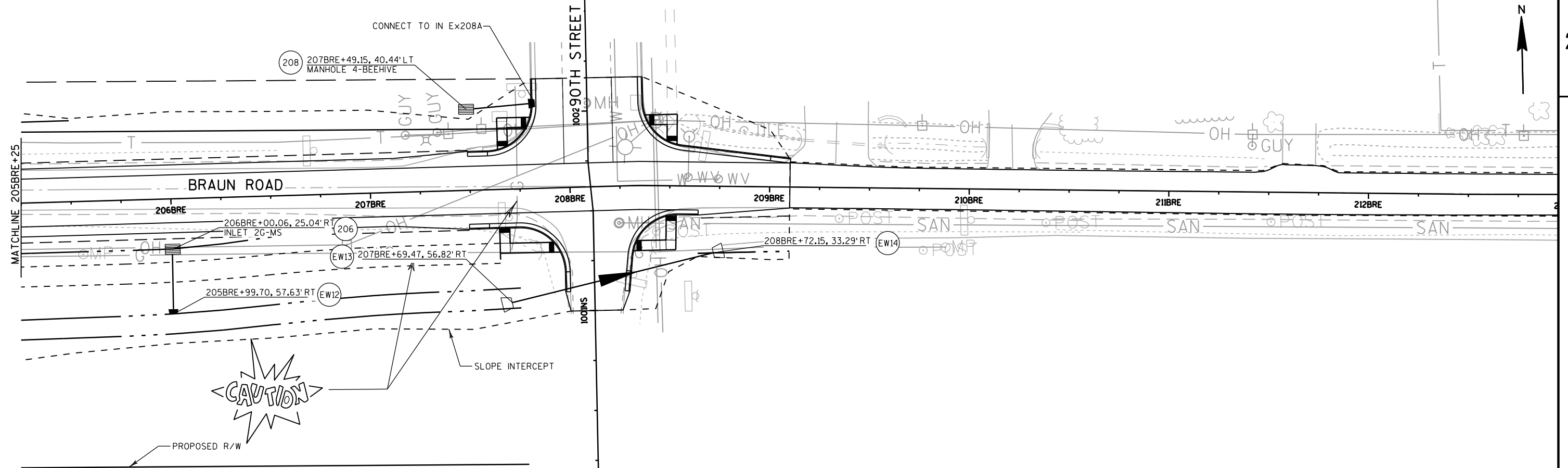




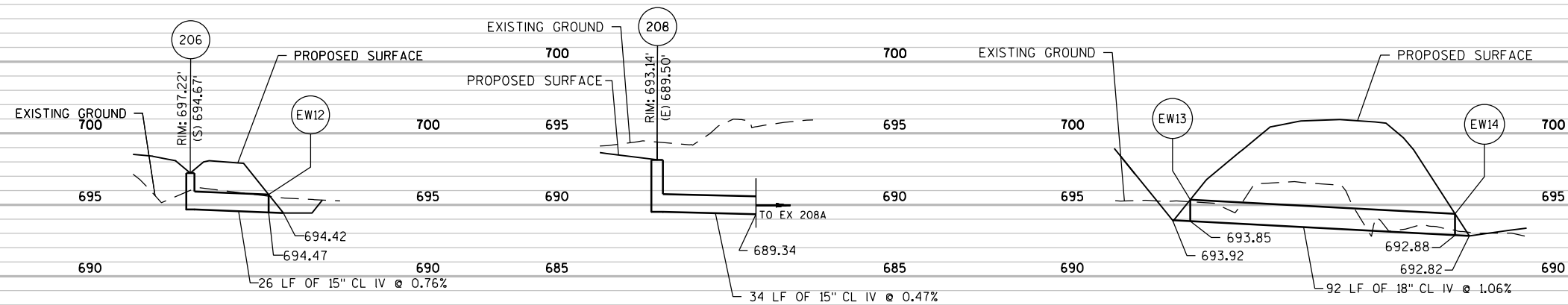




2



2 |



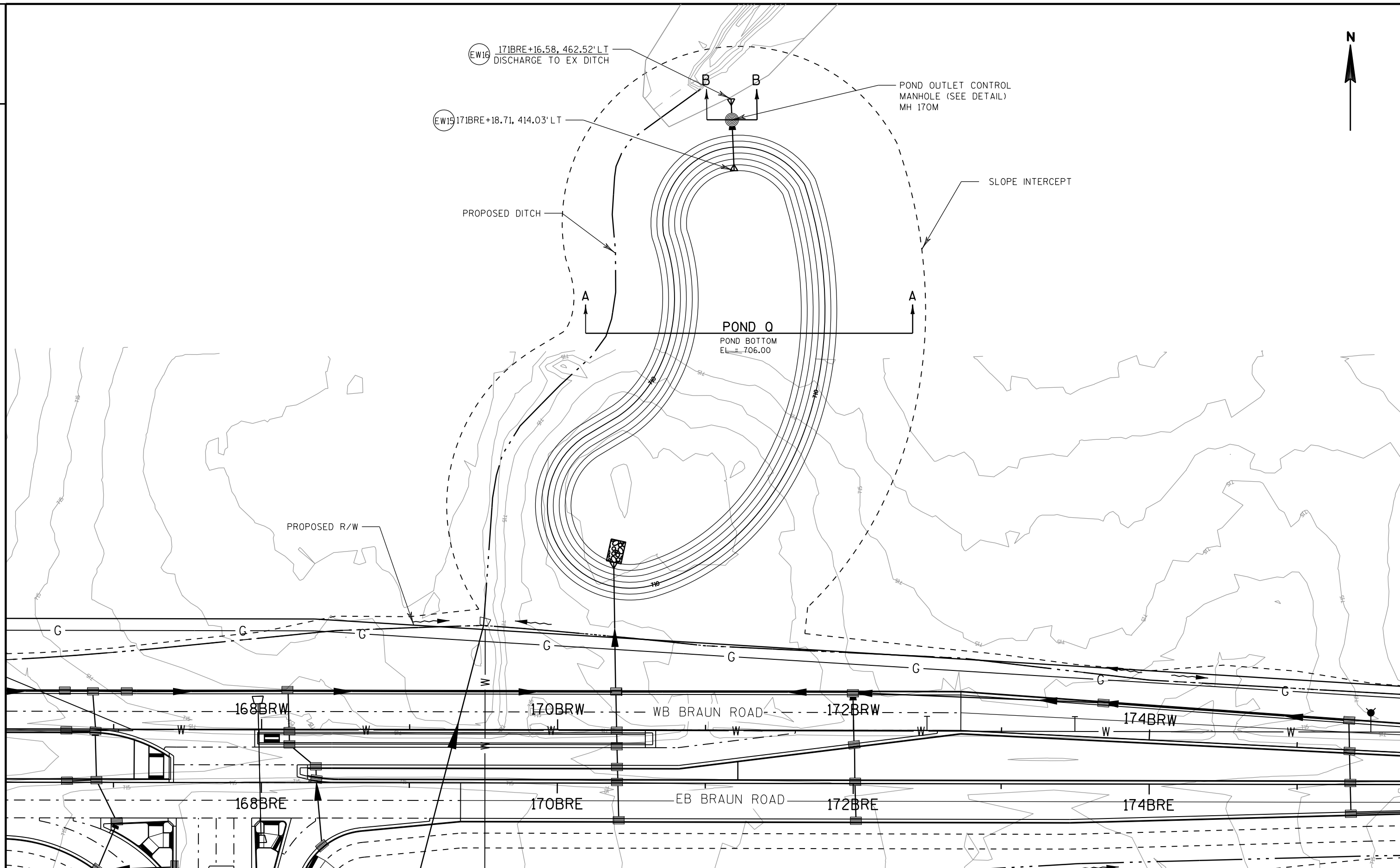
PROJECT NO:2704-09-71

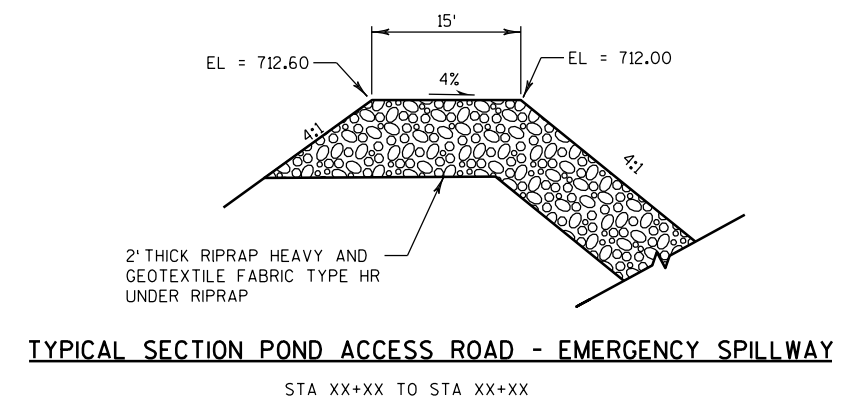
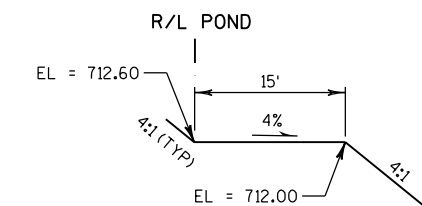
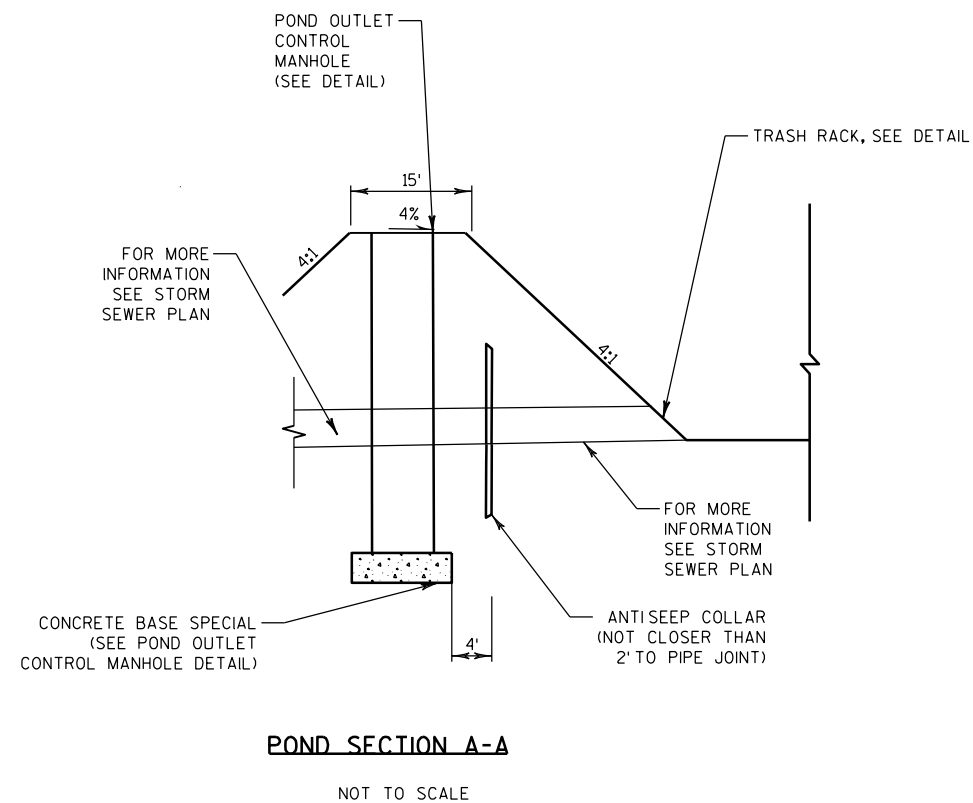
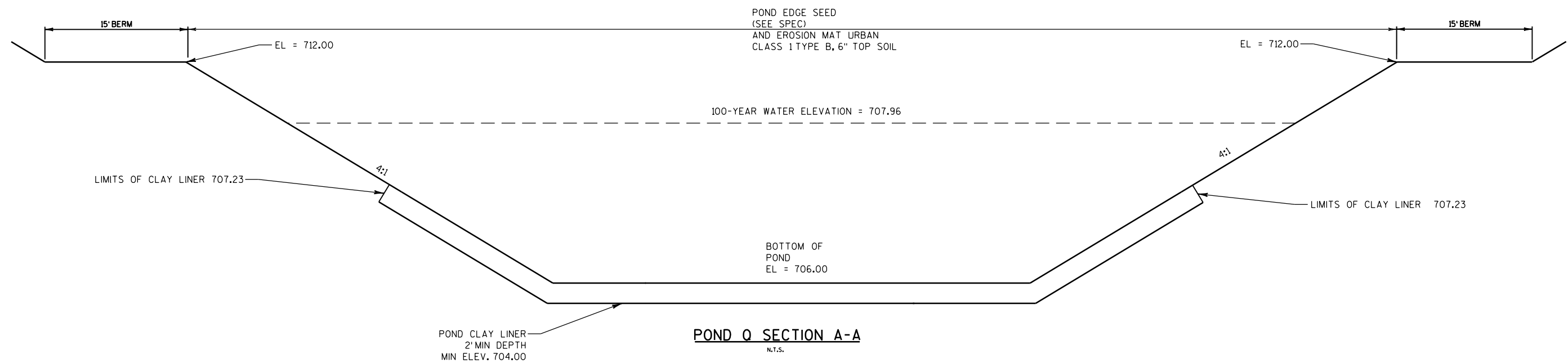
HWY: BRAUN ROAD

COUNTY: RACINE

STORM SEWER: BRAUN ROAD EAST

SHEET





7 BARS
6" OC

5/8" SMOOTH BARS

LOCKING PIN

HINGE PIN

24" RCP
ENDWALL

1 1/4"

1" HOLE,
TYP OF 4

4"

PLAN

79.25"

SIDE VIEW

16"

13.5"

48"

END VIEW

A cross-sectional diagram of the bracket assembly. It shows a semi-circular arch with a vertical dashed centerline. A bracket is attached to the right side of the arch. A dimension line indicates a 9" distance from the centerline to the bracket. Another dimension line indicates an 18" distance from the centerline to the right edge of the arch. The bracket is labeled "BRACKET". The fastener is labeled "3/4\" x 6 1/2\" MACHINE BOLT WITH FLAT AND LOCK WASHER".

CROSS SECTION

RIM ELE. = XXX.XX

TWIN MANHOLE COVERS TYPE J-S

INTERNAL SPILLWAY ELEV.= 709.50

#5 EPOXY COATED BARS @8" O.C. VERT AND HORIZONTAL

CATCH BASIN 5-FT WITH 8" REINFORCED CONCRETE BAFFLE WALL

24" RCCP POND OUTLET

24" RCCP OUTLET TO DITCH

INV. ELE.= 705.84

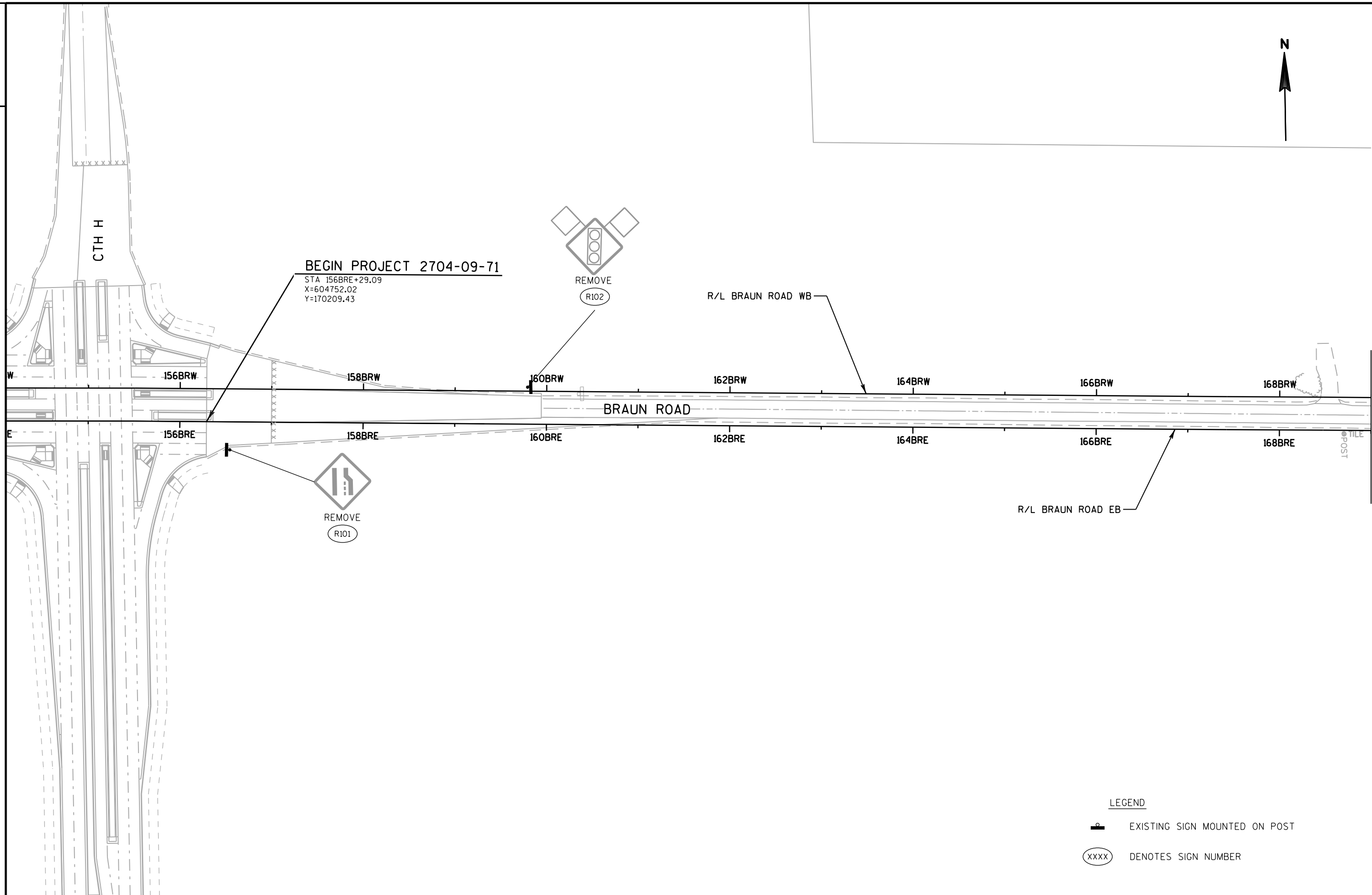
INV. ELE.= 704.00

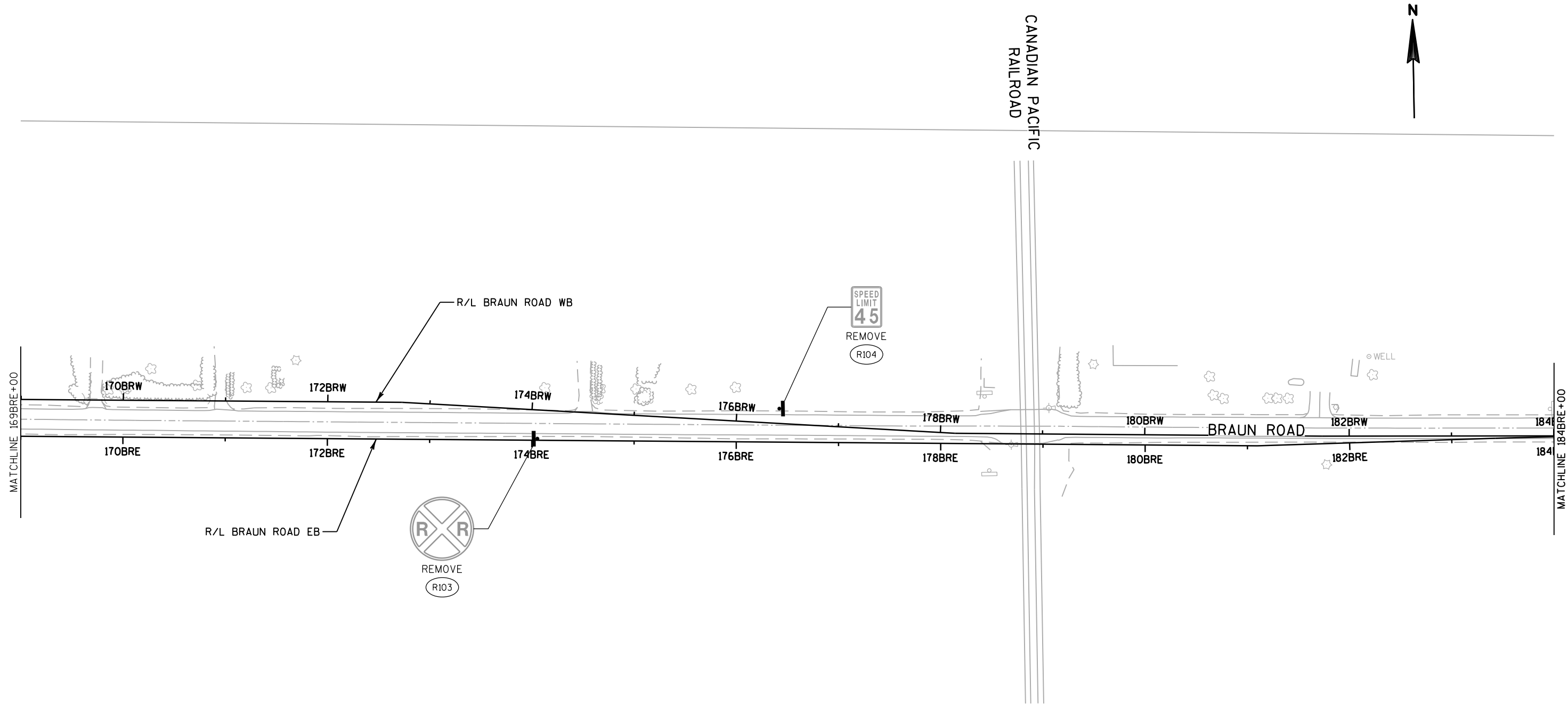
ORIFICE #1 INV. ELE.= 705.84 DIAMETER= 12"

EXTEND VERTICAL BARS 4" INTO BASE

POND Q OUTLET CONTROLS MANHOLE SECTION B-B

N.T.S.

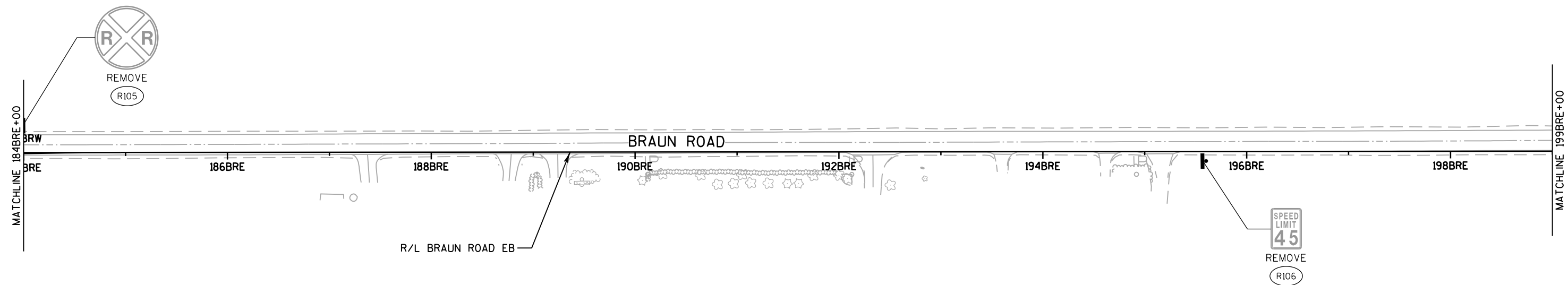




LEGEND

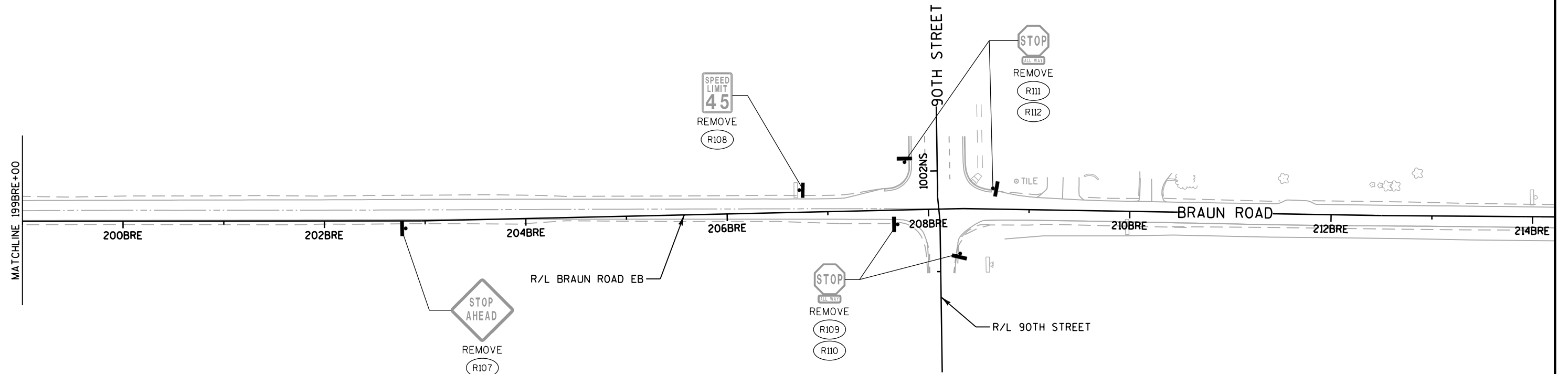
 EXISTING SIGN MOUNTED ON POST

 DENOTES SIGN NUMBER



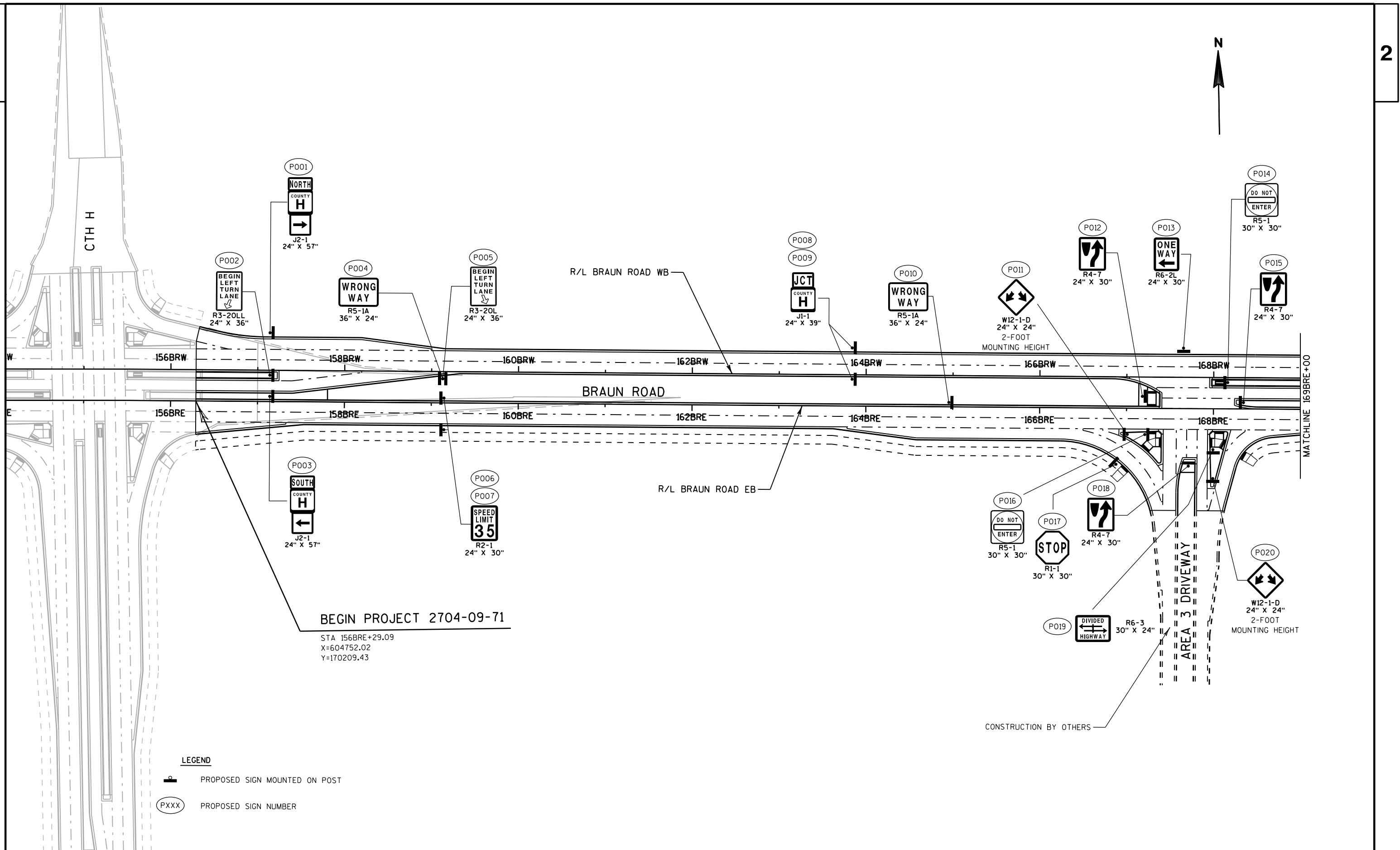
LEGEND

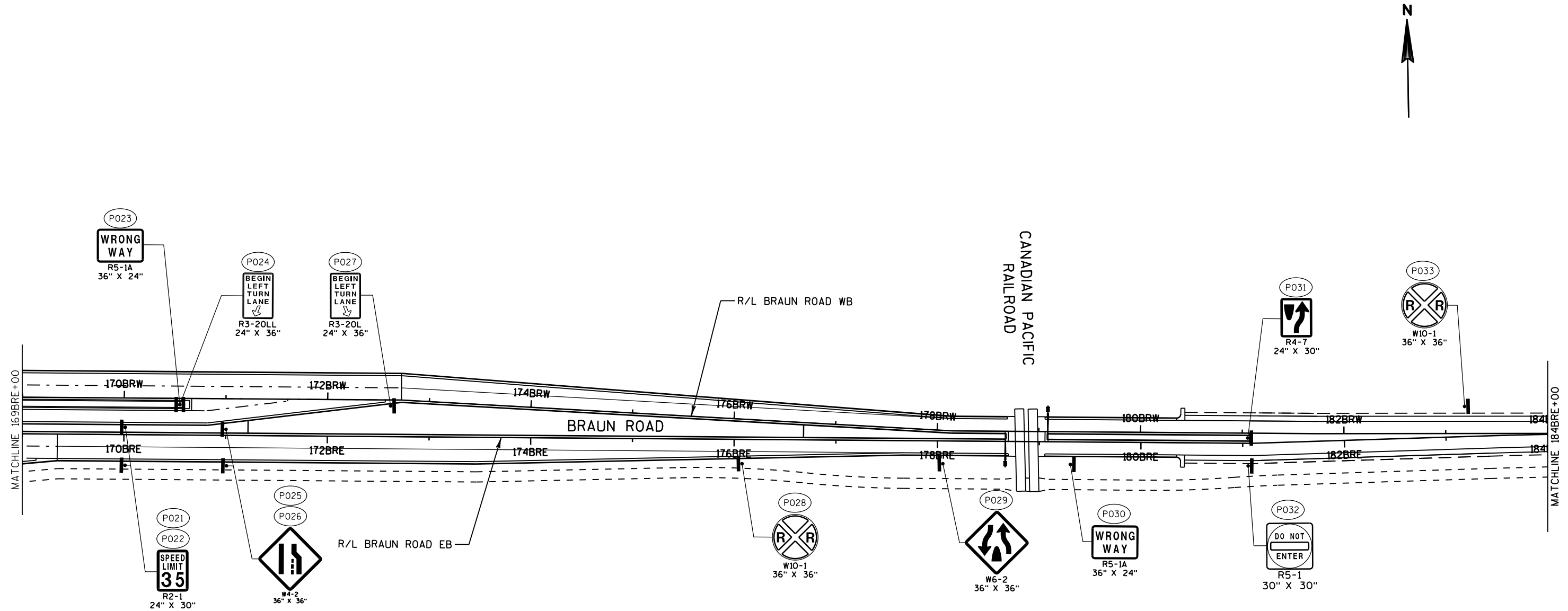
-  EXISTING SIGN MOUNTED ON POST
-  DENOTES SIGN NUMBER



LEGEND

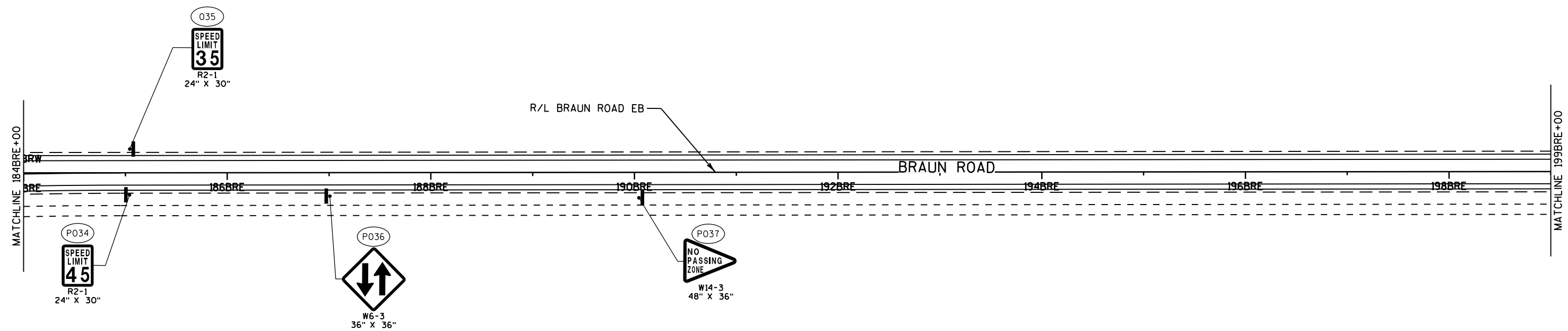
-  EXISTING SIGN MOUNTED ON POST
-  DENOTES SIGN NUMBER





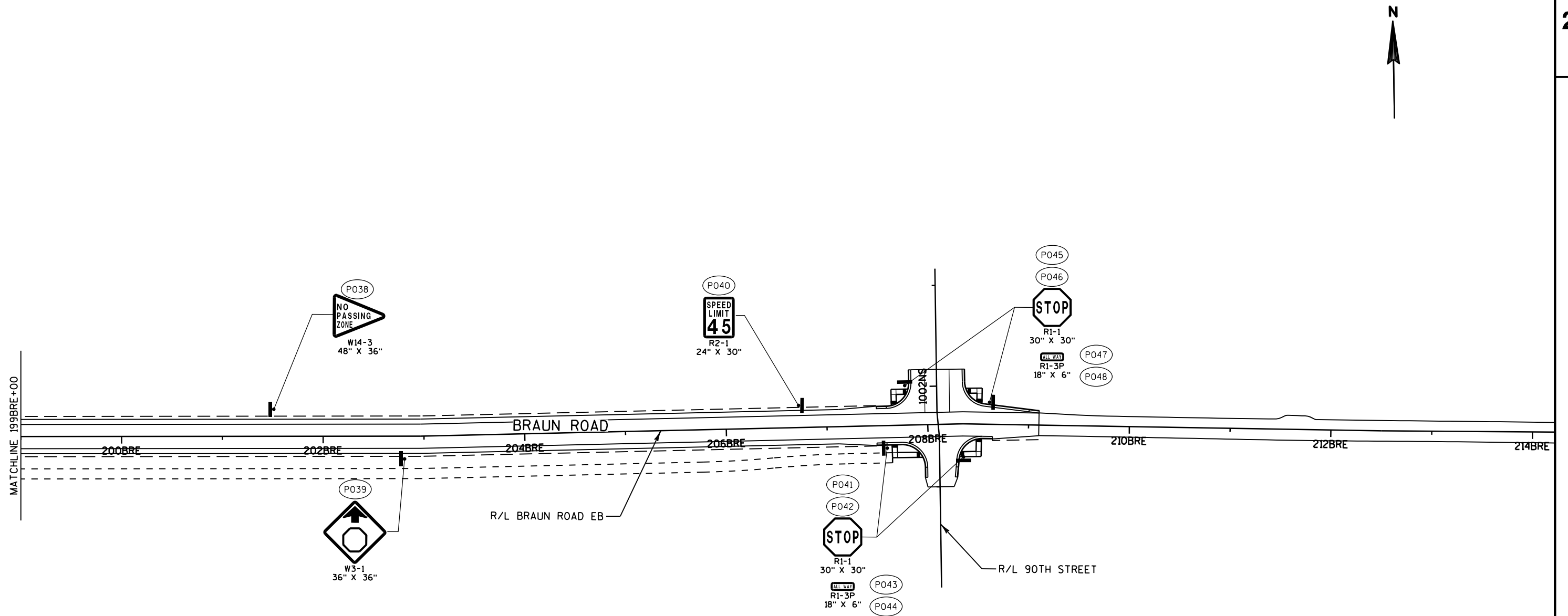
LEGEND

-  PROPOSED SIGN MOUNTED ON POST
-  PROPOSED SIGN NUMBER



LEGEND

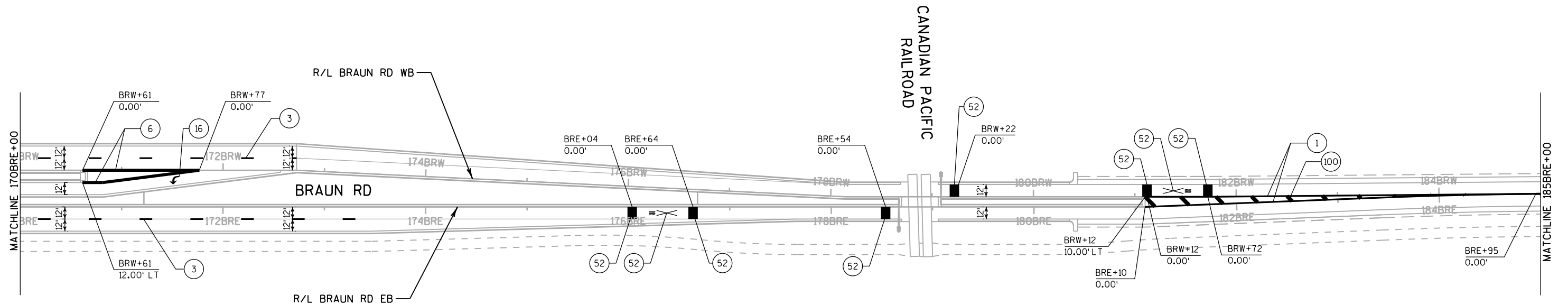
-  PROPOSED SIGN MOUNTED ON POST
-  PROPOSED SIGN NUMBER



LEGEND

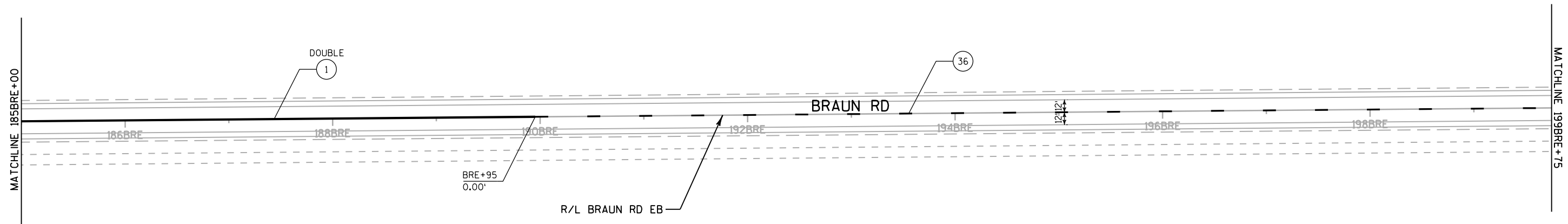
-  PROPOSED SIGN MOUNTED ON POST
-  PROPOSED SIGN NUMBER



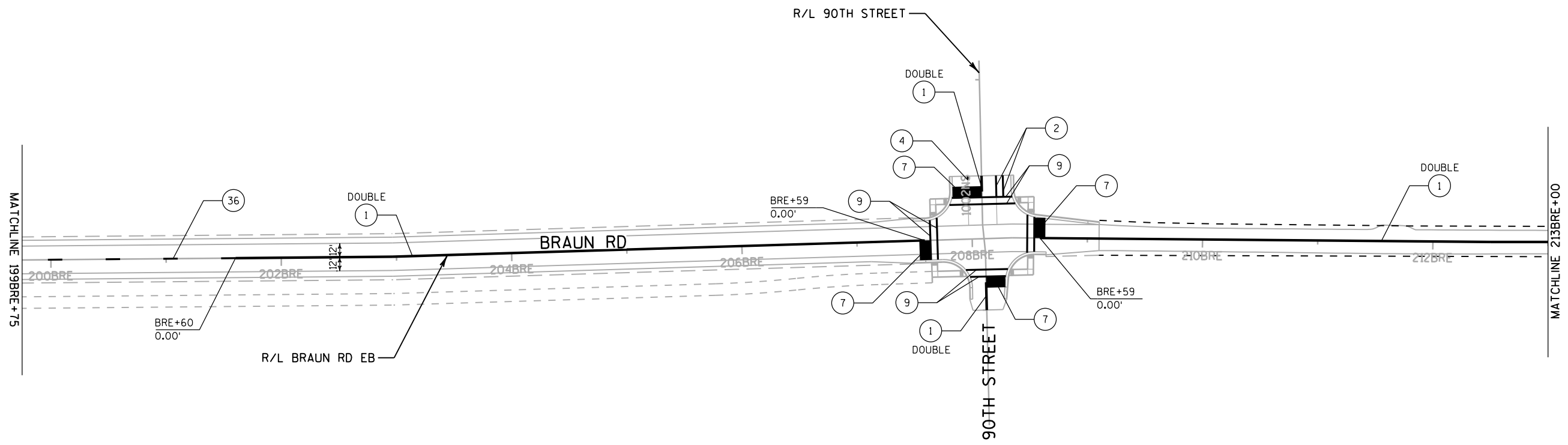


LEGEND

- ① MARKING LINE EPOXY 4-INCH (YELLOW)
- ③ MARKING LINE EPOXY 4-INCH (DASHED WHITE)
(12.5 FT LINE 37.5 FT SKIP)
- ⑥ MARKING LINE EPOXY 8-INCH (WHITE)
- ①⑥ MARKING ARROW EPOXY TYPE 2
- ⑤② PAVEMENT MARKING RAILROAD CROSSINGS EPOXY
- ①①① MARKING DIAGONAL EPOXY 12-INCH (YELLOW)

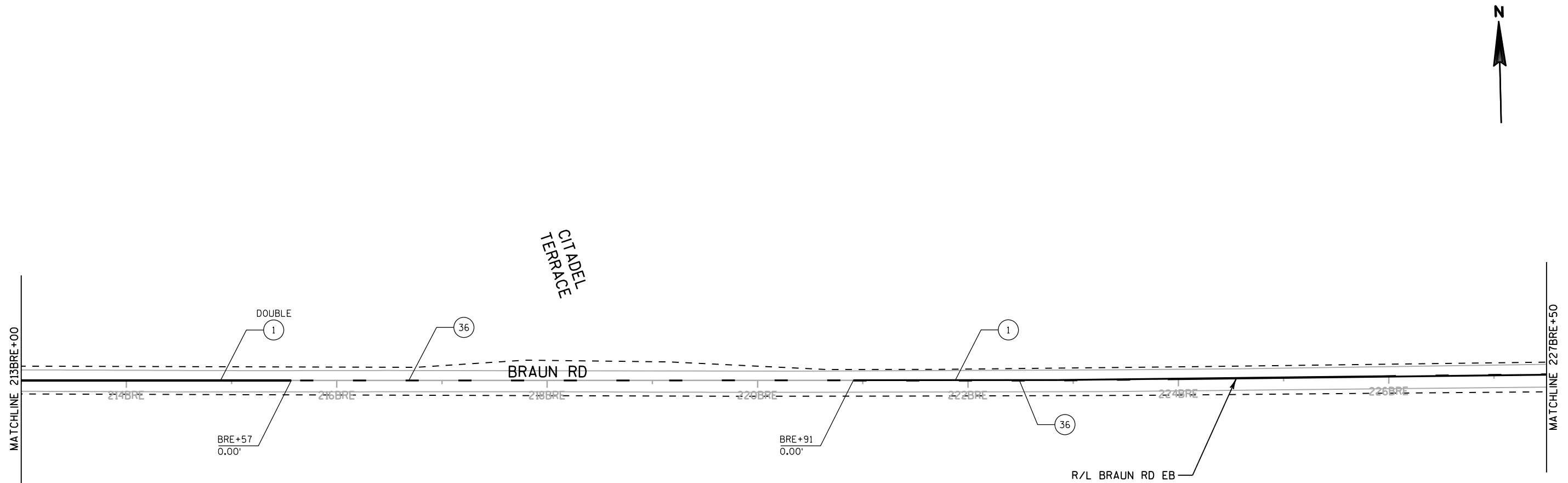


- LEGEND
- 1 MARKING LINE EPOXY 4-INCH (YELLOW)
 - 36 PAVEMENT MARKING EPOXY 4-INCH (DASHED YELLOW)
(12.5 FT LINE 37.5 FT SKIP)



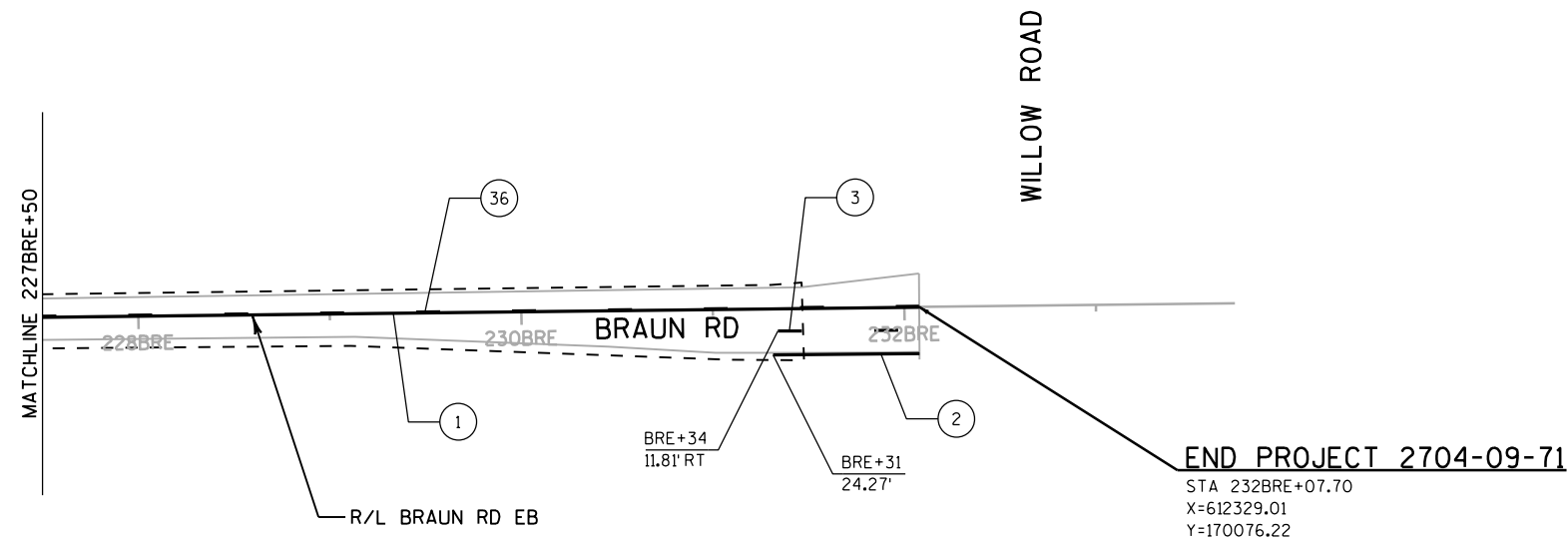
LEGEND

- (1) MARKING LINE EPOXY 4-INCH (YELLOW)
- (2) MARKING LINE EPOXY 4-INCH (WHITE)
- (4) MARKING LINE EPOXY 4-INCH (DOT PATTERN WHITE)
(3 FT LINE 9 FT SKIP)
- (7) MARKING STOP LINE EPOXY 18-INCH (WHITE)
- (9) MARKING CROSSWALK EPOXY TRANSVERSE 6-INCH (WHITE)
- (36) PAVEMENT MARKING EPOXY 4-INCH (DASHED YELLOW)
(12.5 FT LINE 37.5 FT SKIP)



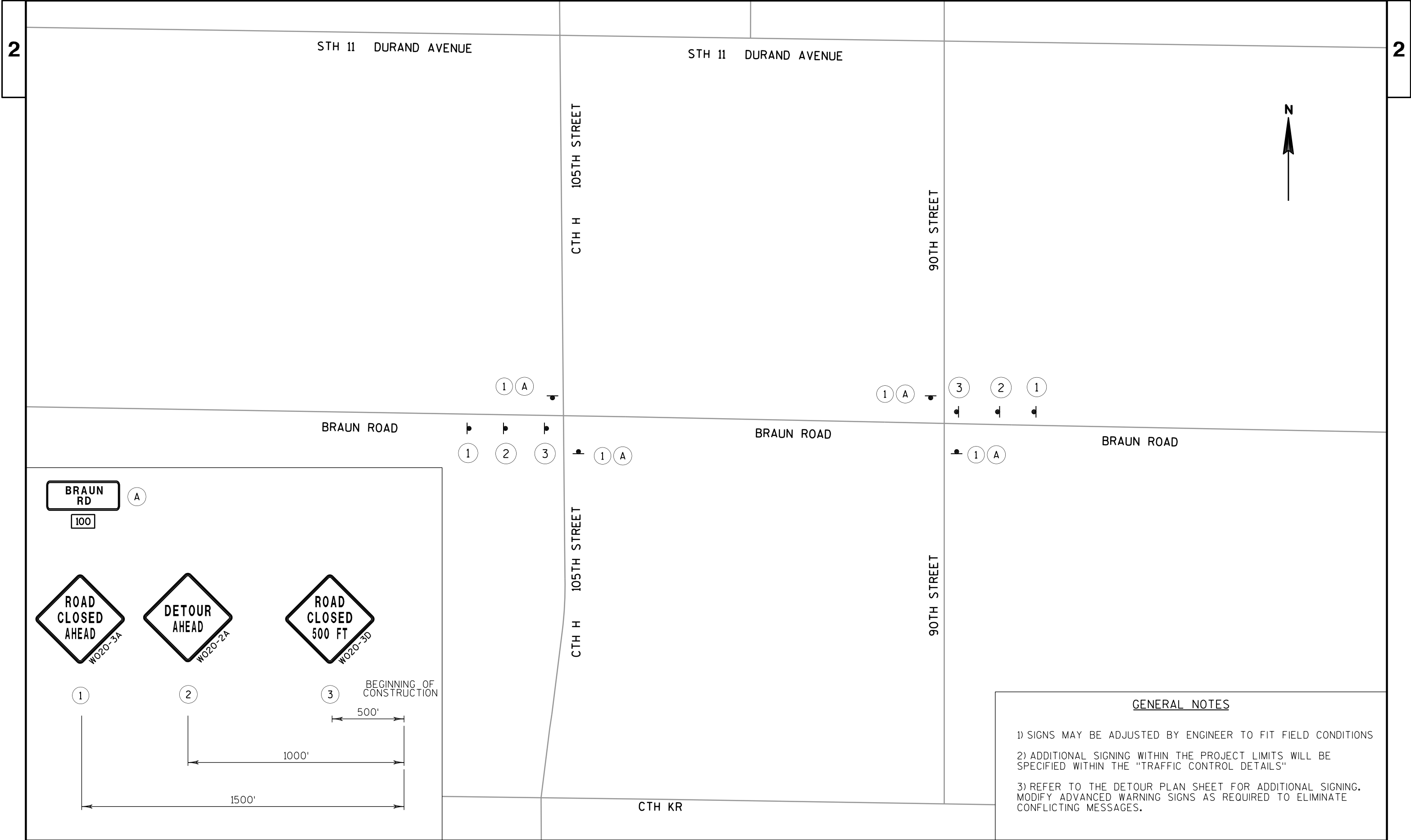
LEGEND

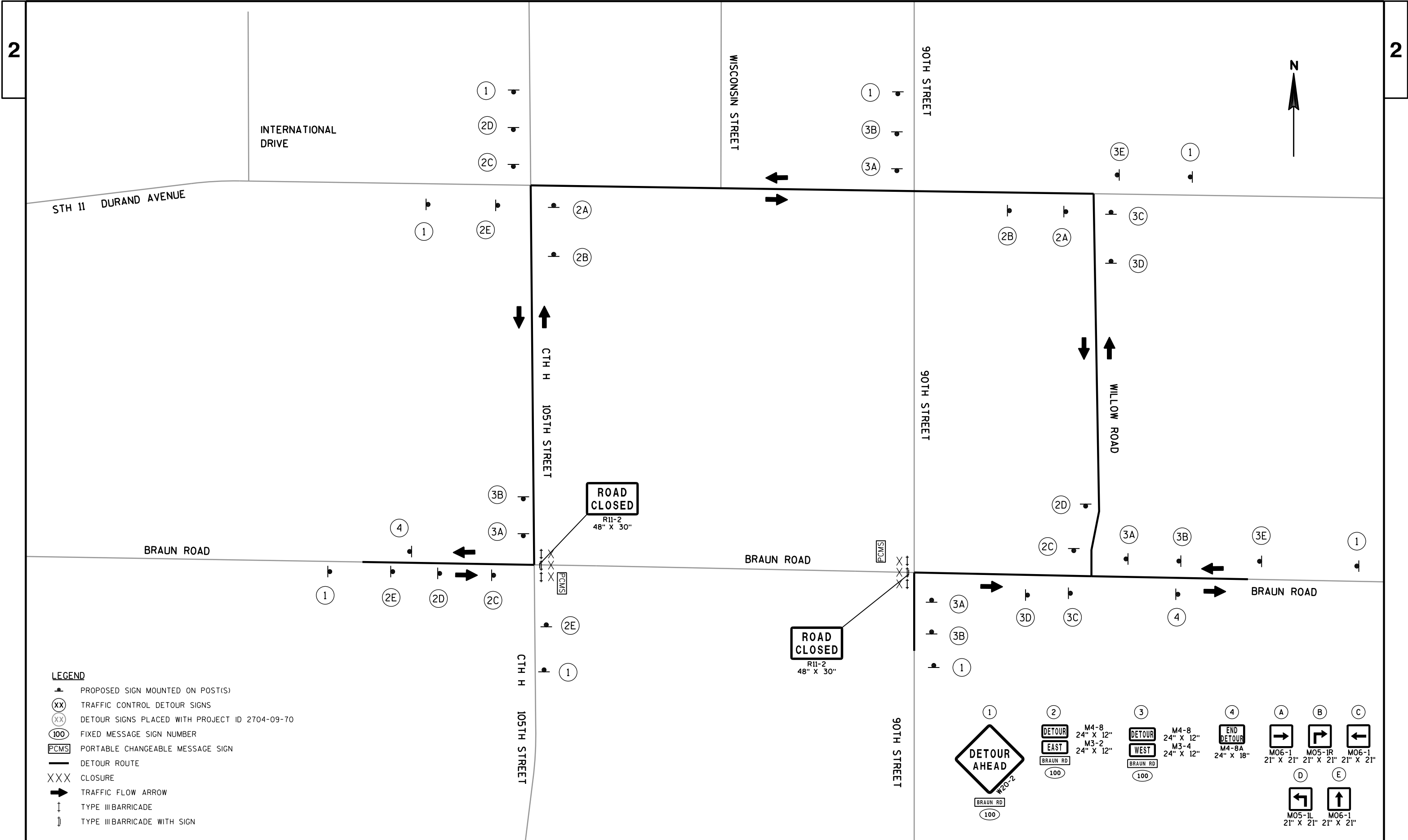
- 1 MARKING LINE EPOXY 4-INCH (YELLOW)
- 36 PAVEMENT MARKING EPOXY 4-INCH (DASHED YELLOW)
(12.5 FT LINE 37.5 FT SKIP)

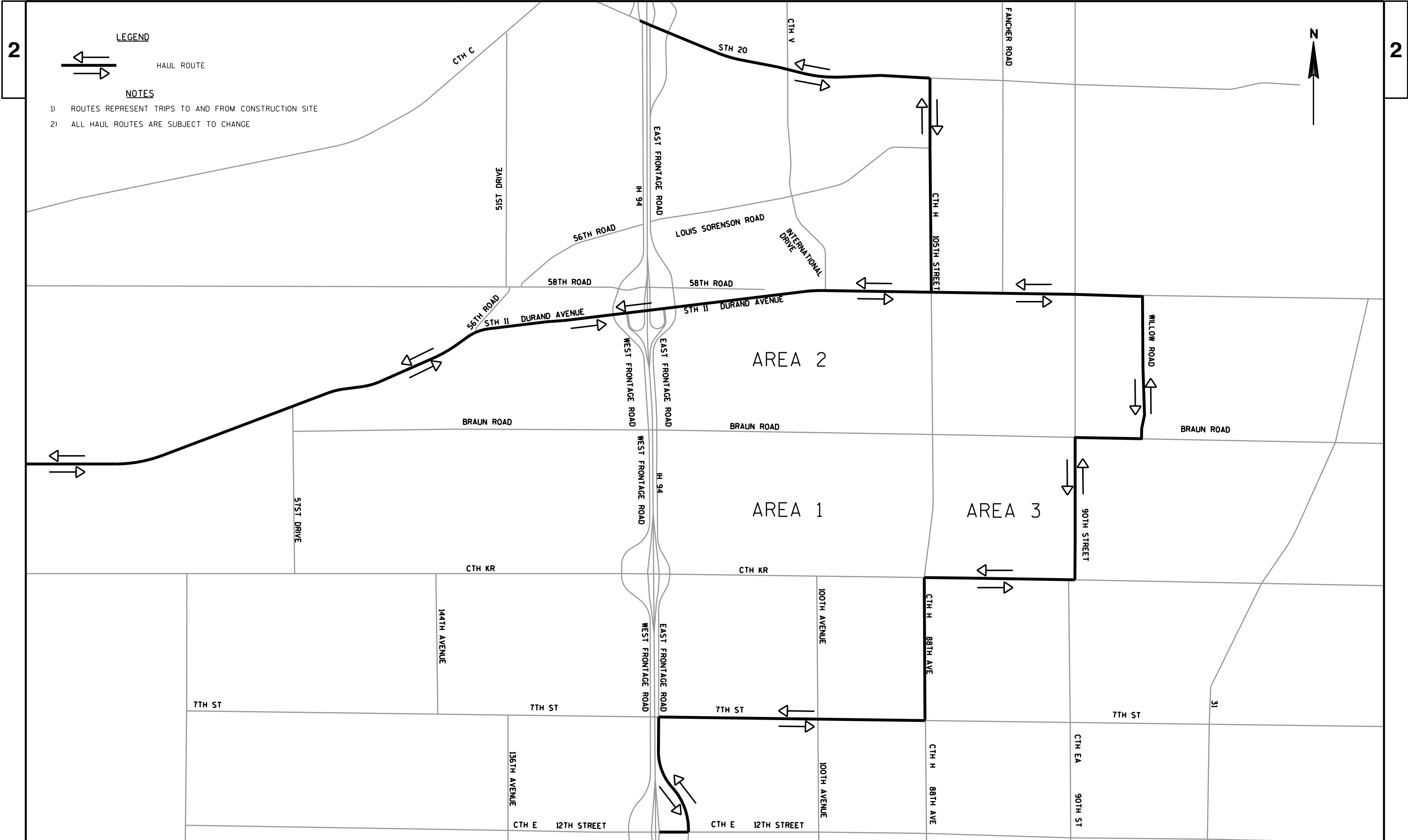


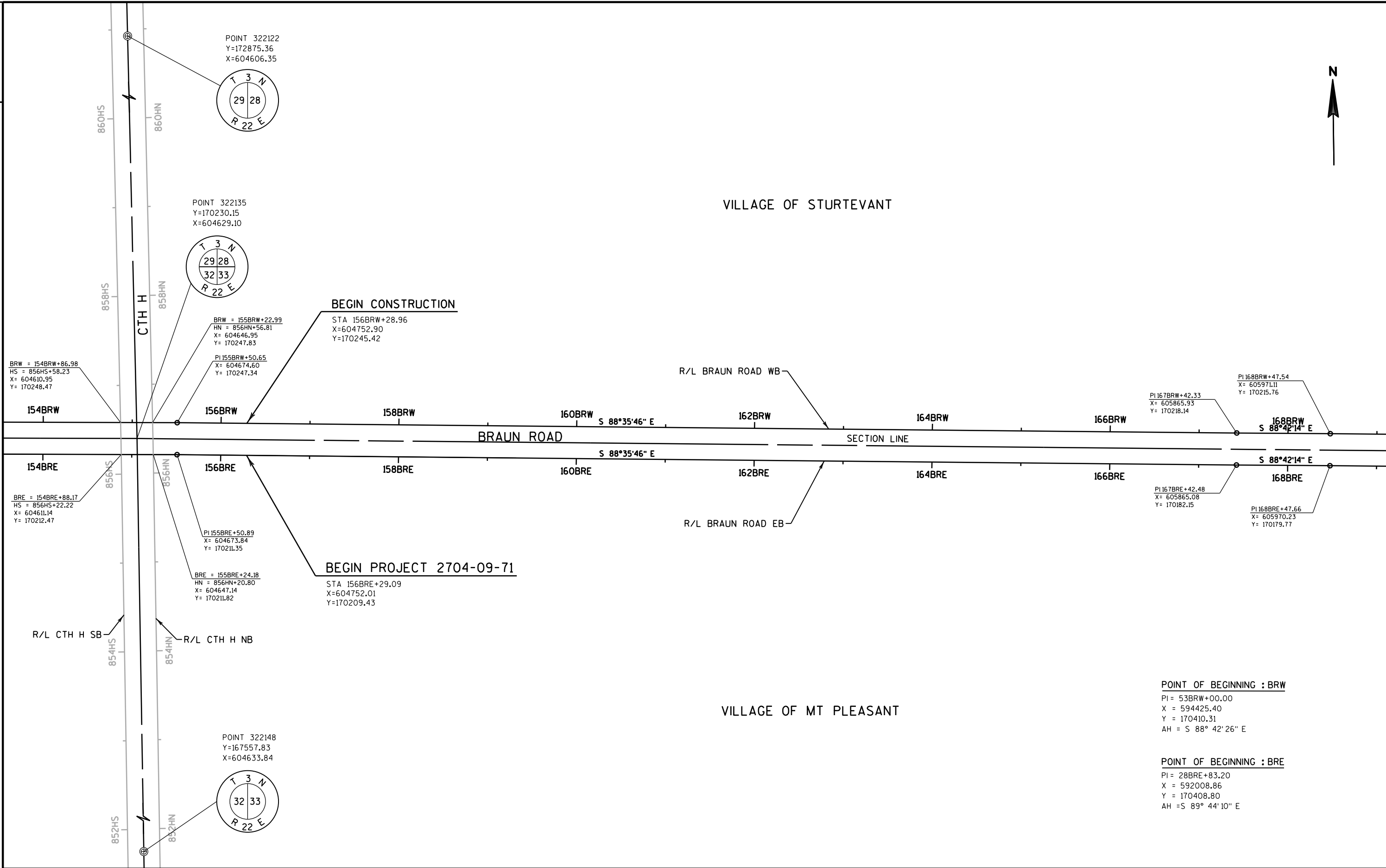
LEGEND

- 1 MARKING LINE EPOXY 4-INCH (YELLOW)
- 2 MARKING LINE EPOXY 4-INCH (WHITE)
- 3 MARKING LINE EPOXY 4-INCH (DASHED WHITE)
(12.5 FT LINE 37.5 FT SKIP)



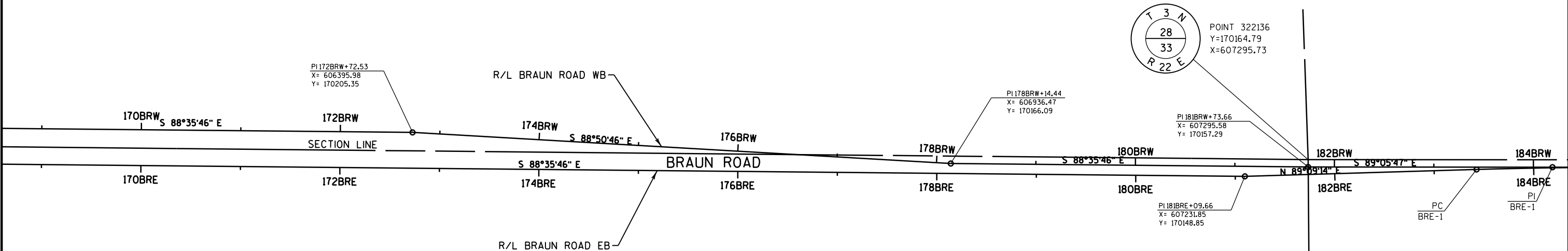






PROJECT NO: 2704-09-71	HWY: BRAUN ROAD	COUNTY: RACINE	ALIGNMENT: BRAUN ROAD	SHEET	E
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VILLAGE OF STURTEVANT



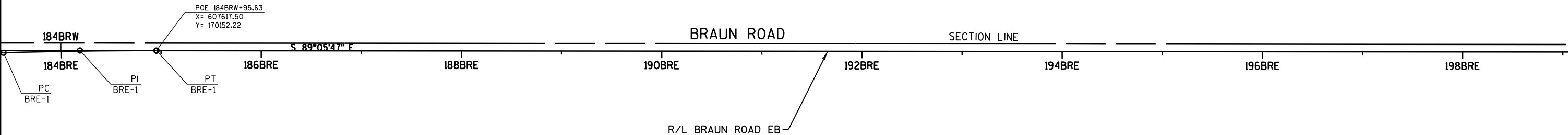
VILLAGE OF MT PLEASANT

CURVE : BRE-1
PC = 183BRE+42.66
X = 607464.82
Y = 170152.29
PI = 184BRE+19.01
X = 607541.16
Y = 170153.42
PT = 184BRE+95.34
X = 607617.50
Y = 170152.22

R = 5,000.00'
DELTA = 1°44'59" RT
D = 1°08'45"
L = 152.69
T = 76.35
E = 0.58
BK = N 89°09'14" E
AH = S 89°05'47" E



VILLAGE OF STURTEVANT



CURVE : BRE-1

PC = 183BRE+42.66
X = 607464.82
Y = 170152.29
PI= 184BRE+19.01
X = 607541.16
Y = 170153.42
PT = 184BRE+95.34
X = 607617.50
Y = 170152.22

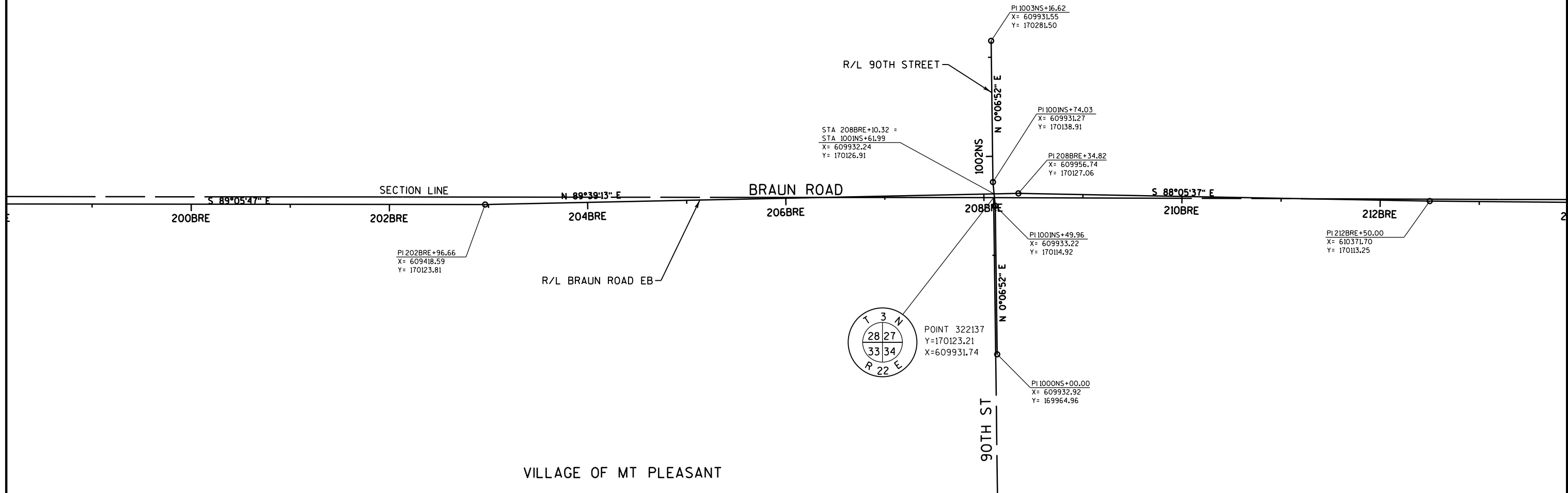
R = 5,000.00'
DELTA = 1°44'59" RT
D = 1°08'45"
L = 152.69
T = 76.35
E = 0.58
BK = N 89°09'14" E
AH = S 89°05'47" E

VILLAGE OF MT PLEASANT



VILLAGE OF STURTEVANT

VILLAGE OF MT PLEASANT



PROJECT NO: 2704-09-71	HWY: BRAUN ROAD	COUNTY: RACINE	ALIGNMENT: BRAUN ROAD	SHEET	E
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VILLAGE OF STURTEVANT

BRAUN ROAD

SECTION LINE

214BRE 216BRE 218BRE 220BRE 222BRE 224BRE 226BRE 228BRE

S 88°36'06" E

S 89°17'17" E

R/L BRAUN ROAD EB

PI 222BRE+84.75
X= 611406.13
Y= 170088.00

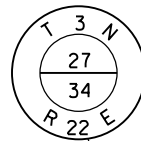
PI 227BRE+25.04
X= 611846.39
Y= 170082.53

VILLAGE OF MT PLEASANT



VILLAGE OF STURTEVANT

POINT 322138
Y=170074.93
X=612570.21



BRAUN ROAD

S 89°15'03" E

SECTION LINE

228BRE

230BRE

232BRE

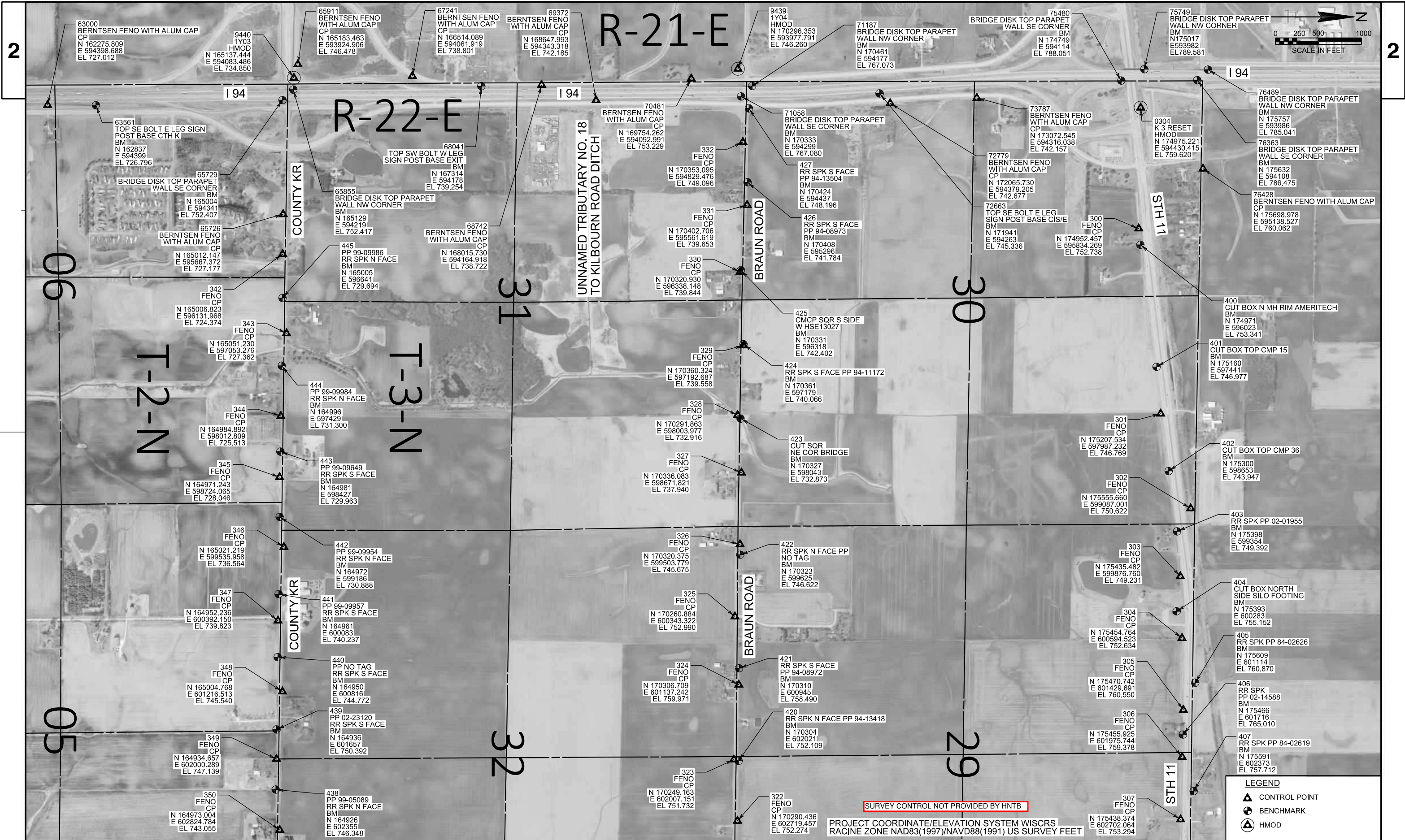
R/L BRAUN ROAD EB

POE 233BRE+72.64
X= 612493.93
Y= 170074.06

END PROJECT 2704-09-71

STA 232BRE+07.70
X=612329.01
Y=170076.22

VILLAGE OF MT PLEASANT



PROJECT NO: FOXCONN DEVELOPMENT

HWY: VARIES

COUNTY: RACINE

CONTROL AND BENCHMARK OVERVIEW

SHEET

E

FILE NAME : S:\DOT\DOT_SE\180045-Foxconn_Local_Roads\Design\Displays\CONTROL AND BENCHMARK DISPLAY\CONTROL AND BENCHMARKS DISPLAY SH1.dgn

PLOT DATE : 3/29/2018

PLOT BY : wwolck

PLOT NAME :

PLOT SCALE : 1:1000

WISDOT/CADDs SHEET 42



PROJECT NO: FOXCONN DEVELOPMENT

HWY: VARIES

COUNTY: RACINE

CONTROL AND BENCHMARK OVERVIEW

SHEET

E

CLEARING AND GRUBBING

ROADWAY	STATION		OFFSET	201.0105	201.0205
				CLEARING	GRUBBING
BRAUN ROAD	BEGIN	END		STA	STA
	168BRW+00	- 172BRW+00		4	4
	174BRW+00	- 177BRW+00		3	3
	179BRW+00	- 183BRW+00		4	4
	181BRE+00	- 186BRE+00		5	5
	188BRE+00	- 193BRE+00	RT	5	5
	194BRE+00	- 196BRE+00	RT	2	2
PROJECT 2704-09-71 TOTAL				23	23

REMOVING SMALL PIPE CULVERT

ROADWAY	STATION		OFFSET	203.1000
				REMOVING SMALL PIPE CULVERT
BRAUN ROAD	BEGIN	END		EACH
	169BRE+62	- 169BRE+82		1
	170BRE+85	- 171BRE+06		1
	174BRE+42	- 174BRW+60		1
	187BRE+25	- 187BRE+50		1
	188BRE+67	- 188BRE+88	RT	1
	189BRE+14	- 189BRE+35	RT	1
	192BRE+14	- 192BRE+55	RT	1
	193BRE+50	- 193BRE+71	RT	1
	194BRE+50	- 194BRE+70	RT	1
	195BRE+00	- 195BRE+35	RT	1
	207BRE+85	- 208BRE+41	RT	1
PROJECT 2704-09-71 TOTAL				11

REMOVING ASPHALTIC SURFACE

						204.0120	204.0120
						REMOVING	REMOVING
						ASPHALTIC SURFACE	ASPHALTIC SURFACE
						BUTT JOINT	MILLING
ROADWAY	STATION		OFFSET			SY	SY
BRAUN ROAD	209BRE+10	-	231BRE+01	RT/LT		--	6,203
	232BRE+08	-	232BRE+33	RT/LT		1,026	--
90TH STREET	207BRE+84	-	208BRE+35	LT		142	--
	207BRE+99	-	208BRE+25	RT		72	--
PROJECT 2704-09-71 TOTAL						1,240	6,203

REMOVING CURB AND GUTTER

						204.0150
						REMOVING
						CURB &
						GUTTER
ROADWAY	STATION		OFFSET			LF
BRAUN ROAD	207BRE+57	-	207BRE+82	LT		50
	208BRE+35	-	208BRE+62	LT		52
PROJECT 2704-09-71 TOTAL						102

REMOVING FENCE

						204.0170
						REMOVING
						FENCE
ROADWAY	STATION		OFFSET			LF
BRAUN ROAD	190BRE+13	-	190BRE+23	RT		21
	192BRE+02	-	192BRE+13	RT		21
PROJECT 2704-09-71 TOTAL						42

REMOVING DRAINTILE

		204.9090.S.001	204.9090.S.002
		REMOVING	REMOVING
		UNDERDRAIN	DRAIN TILE
ROADWAY		LF	LF
UNDISTRIBUTED		300	1,000
PROJECT 2704-09-71 TOTAL		300	1,000

FINISHING ROADWAY

		213.0100
		FINISHING
		ROADWAY
		2704-09-71
ROADWAY		EACH
PROJECT 2704-09-71		1
PROJECT 2704-09-71 TOTAL		1

Category	Division	From/To Station	Location	Excavation Common (CY) (1) 205.0100		Fill (CY) (6)	Roadway Embankment (CY) (3) SPV.0035.001	Mass Ordinate +/- (4) (7)	Comment:
				Cut (CY) (2)	Topsoil Removal (CY) (5)				
1000	1	104+50 - 116+50	BRAUN ROAD	46,159	0	14,330	14,330	31,829	
1000	1		POND Q	7,900	0	0	0	7,900	
Project 2704-09-71 - Division 1 Subtotal				54,059	0		14,330	39,729	
Project 2704-09-71 - Division 1 Total				54,059			14,330	39,729	
1000	1	WEST OF RAILROAD	BRAUN ROAD	0	11,078	0	11,078	0	
1000	1	EAST OF RAILROAD	BRAUN ROAD	0	4,787	0	4,787	0	
1000	1	ASPHALTIC REMOVAL	BRAUN ROAD	0	835	0	835	0	
Project 2704-09-71 - Division 1 Subtotal				0	16,700		16,700	0	
Project 2704-09-71 - Division 1 Total				16,700			16,700	0	
Project 2704-09-71 Totals				70,759			31,030	39,729	

- 1) Excavation Common = Cut + (Topsoil Removal + Excavation Below Subgrade). Item number 205.0100. See Topsoil Removal Detail.
- 2) Cut volume includes existing concrete and asphaltic surface material.
- 3) Roadway Embankment = (Fill + Topsoil Removal Replaced + Excavation Below Subgrade Replaced). Refer to Topsoil Removal Detail.
- 4) Mass Ordinate = Cut - Fill. The Mass Ordinate is for information purposes only as Common Excavation and Roadway Embankment are not balanced for quantity purposes
- 5) Topsoil quantity below subgrade in cut sections and topsoil removal quantity in fill areas. Excess topsoil material assumed to be wasted offsite.
- 6) Fill quantitiy shown for reference.
- 7) The Mass Ordinate is calculated by division. A positive quantity indicates an excess of material within the Division and a negative quantity indicates a shortage of material within the Division.

SUBSTRUCTURE

ROADWAY	FROM STATION	TO STATION	OFFSET	305.0120	311.0110	623.0200	624.0110*
				BASE AGGREGATE	BREAKER	DUST CONTROL	
				DENSE	RUN	SURFACE	
				1 1/4-INCH	TON	TREATMENT	WATER
				TON	TON	SY	MGAL
BRAUN	156BRE+29	- 169BRE+35	RT/LT	5,307	11,508	12,985	336
	169BRE+35	- 172BRE+73	LT	887	1,743	1,961	53
	169BRE+35	- 172BRE+73	RT/LT	689	1,102	1,239	36
	172BRE+73	- 178BRE+77	RT/LT	2,077	3,235	3,639	106
	178BRE+99	- 209BRE+10	RT/LT	9,339	15,641	15,579	500
SUBTOTAL				18,300	33,229	35,404	1,031
UNDISTRIBUTED				920	1,670	1,780	60
PROJECT 2704-09-71 TOTALS				19,220	34,899	37,184	1,091

* ADDITIONAL QUANTTTIES SHOWN ELSEWHERE

CONCRETE PAVEMENT

					415.0100	415.1100	415.4100	416.1010
						CONCRETE PAVEMENT		CONCRETE
					CONCRETE PAVEMENT	HIGH EARLY STRENGTH	CONCRETE PAVEMENT	SURFACE DRAINS
					10-INCH	10-INCH	JOINT FILLING	10-INCH
ROADWAY	STATION		OFFSET		SY	SY	SY	CY
BRAUN ROAD	156BRE+29	- 169BRE+35	RT/LT		8,640	960	9,600	--
	169BRE+35	- 172BRE+73	LT		1,234	137	1,371	--
	180BRE+35		RT		--	--	--	1
	180BRE+35		LT		--	--	--	1
PROJECT 2704-09-71 TOTALS					9,874	1,097	10,971	2

CONCRETE PAVEMENT JOINT LAYOUT

ROADWAY	415.5110.S
	CONCRETE
	PAVEMENT
	JOINT LAYOUT
LS	
PROJECT 2704-09-71	1
PROJECT 2704-09-71 TOTAL	1

DRILLED DOWEL BARS

STATION	OFFSET	LOCATION	416.0620
			DRILLED
			DOWEL BARS
			EACH
156BRE+29		BRAUN RD	58
PROJECT 2704-09-71 TOTAL			58

ASPHALT ITEMS					455.0605	460.5223	460.5224	495.1000.S
ROADWAY	STATION	OFFSET		TACK	GAL	HMA PAVEMENT	HMA PAVEMENT	COLD
				COAT		3 LT 58-28 S	4 LT 58-28 S	
BRAUN ROAD	169BRE+335 - 172BRE+73	RT/LT						PATCH
					TON	TON	TON	TON
				63	173	120	--	--
				165	453	314	--	--
	178BRE+99 - 209BRE+10	RT/LT		824	2,257	1,562	--	--
	209BRE+10 - 231BRE+01	RT/LT		392	661	661	--	--
SUBTOTAL					1,444	3,544	2,657	--
UNDISTRIBUTED					--	--	--	300
PROJECT 2704-09-71 TOTAL					1,444	3,544	2,657	300

GENERAL NOTES

- 1) STATIONS AND OFFSETS ARE TO THE CENTER OF STRUCTURES OR TO THE APRON END OF ENDWALLS UNLESS OTHERWISE NOTED.
- 2) RIM ELEVATIONS ARE GIVEN AT THE FLANGE LINE FOR INLET GRATES OR THE CENTER OF THE MANHOLE COVER FOR MANHOLES UNLESS OTHERWISE NOTED.
- 3) STRUCTURE DEPTH = RIM ELEVATION - INVERT - CASTING - 0.5 FT(RINGS AND MORTER) , EXCEPT MEDIAN INLETS.
- 4) FLAT TOP SLAB REQUIRED ON ALL MANHOLES WITH INLET COVERS.
- 5) SEE SPECIAL PROVISIONS FOR ADJUSTMENT RING REQUIREMENTS.

STORM SEWER PIPE															
					522.0418	522.0424	522.0436	522.2424	608.0315	608.0318	608.0324	608.0415	608.0418	608.0424	633.5200
					CULVERT	CULVERT	CULVERT	CULVERT	STORM SEWER	STORM SEWER	STORM SEWER	STORM SEWER	STORM SEWER	STORM SEWER	
					PIPE	PIPE	PIPE	PIPE	PIPE	PIPE	PIPE	PIPE	PIPE	PIPE	
					REINFORCED	REINFORCED	REINFORCED	REINFORCED	REINFORCED	REINFORCED	REINFORCED	REINFORCED	REINFORCED	REINFORCED	MARKERS
					CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CULVERT END
					CLASS IV	CLASS IV	CLASS IV	CLASS HE-IV	CLASS III	CLASS III	CLASS III	CLASS IV	CLASS IV	CLASS IV	
FROM	TO	INLET	DISCH	SLOPE	18-INCH	24-INCH	36-INCH	24X38-INCH	15-INCH	18-INCH	24-INCH	15-INCH	18-INCH	24-INCH	
STR	STR	ELEV	ELEV		LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	EACH
STAGE 1															
Ex857	157	730.41	728.92	2.01%	--	--	--	--	74	--	--	--	--	--	--
157	158	728.67	725.88	1.94%	--	--	--	--	--	144	--	--	--	--	--
158	159	725.88	723.54	1.50%	--	--	--	--	--	156	--	--	--	--	--
159	162	723.54	719.66	2.04%	--	--	--	--	--	190	--	--	--	--	--
157E	157D	730.80	730.66	0.47%	--	--	--	--	30	--	--	--	--	--	--
157D	157C	730.66	730.62	0.40%	--	--	--	--	10	--	--	--	--	--	--
157C	157B	730.62	730.56	0.43%	--	--	--	--	14	--	--	--	--	--	--
157B	157A	730.56	730.52	0.40%	--	--	--	--	10	--	--	--	--	--	--
157A	157	730.52	730.30	0.56%	--	--	--	--	39	--	--	--	--	--	--
158C	158B	728.27	728.15	0.46%	--	--	--	--	26	--	--	--	--	--	--
158B	158A	728.15	728.04	0.46%	--	--	--	--	24	--	--	--	--	--	--
158A	158	728.04	727.84	0.45%	--	--	--	--	44	--	--	--	--	--	--
159C	159B	725.38	725.26	0.46%	--	--	--	--	26	--	--	--	--	--	--
159B	159A	725.26	725.10	0.47%	--	--	--	--	34	--	--	--	--	--	--
159A	159	725.10	724.98	0.44%	--	--	--	--	27	--	--	--	--	--	--
162	164	719.66	716.75	1.46%	--	--	--	--	--	199	--	--	--	--	--
164	166	716.25	713.32	1.47%	--	--	--	--	--	--	199	--	--	--	--
166	167	713.32	712.35	1.39%	--	--	--	--	--	--	--	--	--	70	--
167	167A	712.35	712.15	1.11%	--	--	--	--	--	--	--	--	--	18	--
167A	167B	708.20	708.12	0.35%	--	--	--	--	--	--	--	--	--	23	--
167B	168	708.12	707.60	0.48%	--	--	--	--	--	--	--	--	--	109	--
168	170	707.60	706.51	0.49%	--	--	--	--	--	--	--	--	--	221	--
162C	162B	721.38	721.26	0.46%	--	--	--	--	26	--	--	--	--	--	--
162B	162A	721.26	721.10	0.47%	--	--	--	--	34	--	--	--	--	--	--
162A	162	721.10	720.98	0.44%	--	--	--	--	27	--	--	--	--	--	--
164C	164B	717.32	717.18	0.45%	--	--	--	--	31	--	--	--	--	--	--
164B	164A	717.18	717.02	0.47%	--	--	--	--	34	--	--	--	--	--	--
164A	164	717.02	716.90	0.44%	--	--	--	--	27	--	--	--	--	--	--
166C	166B	714.43	714.29	0.37%	--	--	--	--	--	--	--	38	--	--	--
166B	166A	714.29	714.16	0.38%	--	--	--	--	--	--	--	34	--	--	--
166A	166	714.16	714.07	0.33%	--	--	--	--	--	--	--	27	--	--	--
167M	167L	711.00	710.78	0.38%	--	--	--	--	58	--	--	--	--	--	--
167L	167J	710.78	710.52	0.50%	--	--	--	--	52	--	--	--	--	--	--
167J	167G	710.52	710.37	0.43%	--	--	--	--	35	--	--	--	--	--	--
167G	167F	710.37	710.23	0.44%	--	--	--	--	32	--	--	--	--	--	--

					STORM SEWER PIPE											
					522.0418	522.0424	522.0436	522.2424	608.0315	608.0318	608.0324	608.0415	608.0418	608.0424	633.5200	
					CULVERT	CULVERT	CULVERT	CULVERT	STORM SEWER	STORM SEWER	STORM SEWER	STORM SEWER	STORM SEWER	STORM SEWER	STORM SEWER	
					PIPE	PIPE	PIPE	PIPE	PIPE	PIPE	PIPE	PIPE	PIPE	PIPE	PIPE	
					REINFORCED	REINFORCED	REINFORCED	REINFORCED	REINFORCED	REINFORCED	REINFORCED	REINFORCED	REINFORCED	REINFORCED	REINFORCED	MARKERS
					CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CULVERT END
					CLASS IV	CLASS IV	CLASS IV	CLASS HE-IV	CLASS III	CLASS III	CLASS III	CLASS IV	CLASS IV	CLASS IV	CLASS IV	
FROM	TO	INLET	DISCH	SLOPE	18-INCH	24-INCH	36-INCH	24X38-INCH	15-INCH	18-INCH	24-INCH	15-INCH	18-INCH	24-INCH		
STR	STR	ELEV	ELEV		LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	EACH
167F	167D	710.23	710.09	0.42%	--	--	--	--	33	--	--	--	--	--	--	--
167D	167A	710.09	709.98	0.41%	--	--	--	--	27	--	--	--	--	--	--	--
167E	167F	713.78	713.70	0.40%	--	--	--	--	20	--	--	--	--	--	--	--
167C	167D	714.51	714.43	0.42%	--	--	--	--	19	--	--	--	--	--	--	--
168E	168D	714.43	714.28	0.33%	--	--	--	--	--	--	--	46	--	--	--	--
168D	168C	714.28	714.25	0.37%	--	--	--	--	--	--	--	8	--	--	--	--
168C	168B	714.25	714.14	0.48%	--	--	--	--	--	--	--	23	--	--	--	--
168B	168A	714.14	714.11	0.33%	--	--	--	--	--	--	--	9	--	--	--	--
168A	168	714.11	714.02	0.33%	--	--	--	--	--	--	--	27	--	--	--	--
176	174	709.06	708.41	0.39%	--	--	--	--	--	166	--	--	--	--	--	--
174	172	708.41	707.74	0.40%	--	--	--	--	--	--	--	--	169	--	--	--
172	170	707.74	707.01	0.46%	--	--	--	--	--	--	--	--	160	--	--	--
EW1	EW2	712.86	711.54	0.71%	--	--	--	185	--	--	--	--	--	--	--	2
EW3	EW4	711.13	710.05	0.61%	--	--	176	--	--	--	--	--	--	--	--	2
170E	170D	713.87	713.75	0.46%	--	--	--	--	26	--	--	--	--	--	--	--
170D	170C	713.75	713.71	0.40%	--	--	--	--	10	--	--	--	--	--	--	--
170C	170B	713.71	713.65	0.43%	--	--	--	--	14	--	--	--	--	--	--	--
170B	170A	713.65	713.61	0.40%	--	--	--	--	10	--	--	--	--	--	--	--
170A	170	713.61	713.50	0.42%	--	--	--	--	26	--	--	--	--	--	--	--
170	EW11	706.51	706.04	0.58%	--	--	--	--	--	--	82	--	--	--	--	--
172C	172B	713.07	712.95	0.46%	--	--	--	--	26	--	--	--	--	--	--	--
172B	172A	712.95	712.84	0.44%	--	--	--	--	25	--	--	--	--	--	--	--
172A	172	712.84	712.68	0.44%	--	--	--	--	36	--	--	--	--	--	--	--
176C	176B	709.31	709.23	0.38%	--	--	--	--	21	--	--	--	--	--	--	--
176B	176A	709.23	709.14	0.43%	--	--	--	--	21	--	--	--	--	--	--	--
176A	176	709.14	709.06	0.38%	--	--	--	--	21	--	--	--	--	--	--	--
178C	178D	710.25	710.18	0.32%	--	--	--	--	--	22	--	--	--	--	--	--
178D	176C	710.18	709.31	0.40%	--	--	--	--	--	217	--	--	--	--	--	--
178E	178	710.75	710.66	0.41%	--	--	--	--	22	--	--	--	--	--	--	--
178	178A	710.66	710.60	0.40%	--	--	--	--	15	--	--	--	--	--	--	--

					STORM SEWER PIPE											
					522.0418	522.0424	522.0436	522.2424	608.0315	608.0318	608.0324	608.0415	608.0418	608.0424	633.5200	
					CULVERT	CULVERT	CULVERT	CULVERT	STORM SEWER	STORM SEWER	STORM SEWER	STORM SEWER	STORM SEWER	STORM SEWER		
					PIPE	PIPE	PIPE	PIPE	PIPE	PIPE	PIPE	PIPE	PIPE	PIPE		
					REINFORCED	REINFORCED	REINFORCED	REINFORCED	REINFORCED	REINFORCED	REINFORCED	REINFORCED	REINFORCED	REINFORCED	MARKERS	
					CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CULVERT END	
					CLASS IV	CLASS IV	CLASS IV	CLASS HE-IV	CLASS III	CLASS III	CLASS III	CLASS IV	CLASS IV	CLASS IV		
FROM	TO	INLET	DISCH	SLOPE	18-INCH	24-INCH	36-INCH	24X38-INCH	15-INCH	18-INCH	24-INCH	15-INCH	18-INCH	24-INCH		
STR	STR	ELEV	ELEV		LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	EACH	
178A	178B	710.60	710.56	0.40%	--	--	--	--	10	--	--	--	--	--	--	
178B	178C	710.56	710.51	0.36%	--	--	--	--	14	--	--	--	--	--	--	
EW6	EW5	710.34	709.55	0.72%	--	110	--	--	--	--	--	--	--	--	2	
180	EW7	709.95	709.79	0.46%	--	--	--	--	--	--	--	35	--	--	--	
EW9	187	704.12	703.93	0.32%	--	--	--	--	--	--	--	--	60	--	--	
187	EW8	703.93	703.83	0.36%	--	--	--	--	--	--	--	--	28	--	--	
199	EW10	696.75	696.55	0.53%	--	--	--	--	37	--	--	--	--	--	--	
206	EW12	694.67	694.47	0.76%	--	--	--	--	--	--	--	26	--	--	--	
208	Ex208A	689.50	689.34	0.47%	--	--	--	--	--	--	--	34	--	--	--	
EW15	170M	705.49	705.40	0.32%	--	--	--	--	--	--	28	--	--	--	--	
178G	178D	710.49	710.43	0.40%	--	--	--	--	15	--	--	--	--	--	--	
170M	EW16	705.40	705.37	0.37%	--	--	--	--	--	--	8	--	--	--	--	
EW13	EW14	693.85	692.88	1.06%	92	--	--	--	--	--	--	--	--	--	2	
STAGE 1SUBTOTALS					92	110	176	185	1,162	1,094	317	307	417	441	8	

STORM SEWER STRUCTURES																
		520.1015		520.1018		520.1024		520.1036		522.2624		611.2004	611.2005	611.3004	611.3230	611.3902
		APRON ENDWALLS		APRON ENDWALLS		APRON ENDWALLS		APRON ENDWALLS		APRON ENDWALLS		MANHOLES	MANHOLES	INLETS	INLETS	INLETS
		FOR CULVERT PIPE RCCP		FOR CULVERT PIPE RCCP		FOR CULVERT PIPE RCCP		FOR CULVERT PIPE RCCP		FOR CULVERT PIPE RCCP		4-FT DIAMETER	5-FT DIAMETER	4-FT DIAMETER	2X3-FT	2 GRATE
STRUCTURE	OFFSET	RIM	LOWEST	STR	15"	18"	24"	36"	24X38-INCH	4-FT DIAMETER	5-FT DIAMETER	4-FT DIAMETER	2X3-FT	2 GRATE		
NUMBER	STATION	FT	ELEV	INVERT	DEPTH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH
BRAUN EAST STAGE 1																
Ex857	856HN+81.15	90.3' RT	737.50	730.52	5.6	--	--	--	--	--	--	1	--	--	--	--
157	157BRE+10.13	73.4' LT	735.26	728.67	5.3	--	--	--	--	--	--	1	--	--	--	--
157A	157BRE+11.11	35.0' LT	735.98	730.52	4.1	--	--	--	--	--	--	--	--	--	1	--
157B	157BRE+11.32	25.0' LT	735.73	730.56	3.8	--	--	--	--	--	--	--	--	--	1	--
157C	157BRE+11.76	11.0' LT	735.49	730.62	3.5	--	--	--	--	--	--	--	--	--	1	--
157D	157BRE+11.90	1.0' LT	735.87	730.66	3.9	--	--	--	--	--	--	--	--	--	1	--
157E	157BRE+12.81	28.9' RT	735.30	730.80	3.2	--	--	--	--	--	--	--	--	--	1	--
158	158BRE+54.46	69.4' LT	732.65	725.88	5.4	--	--	--	--	--	1	--	--	--	--	--
158A	158BRE+55.58	25.9' LT	733.47	728.04	4.1	--	--	--	--	--	--	--	--	--	1	--
158B	158BRE+56.19	1.0' LT	733.26	728.15	3.8	--	--	--	--	--	--	--	--	--	1	--
158C	158BRE+56.81	25.0' RT	732.77	728.27	3.2	--	--	--	--	--	--	--	--	--	1	--
159	160BRE+10.12	61.5' LT	729.70	723.54	4.8	--	--	--	--	--	1	--	--	--	--	--
159A	160BRE+10.11	35.0' LT	730.19	725.10	3.8	--	--	--	--	--	--	--	--	--	1	--
159B	160BRE+10.15	1.0' LT	730.19	725.26	3.6	--	--	--	--	--	--	--	--	--	1	--
159C	160BRE+10.24	25.0' LT	729.71	725.38	3.0	--	--	--	--	--	--	--	--	--	1	--
162	161BRE+99.96	61.5' LT	725.90	719.66	4.9	--	--	--	--	--	1	--	--	--	--	--
162A	162BRE+00.47	35.0' LT	726.39	721.10	4.0	--	--	--	--	--	--	--	--	--	1	--
162B	162BRE+01.11	1.00' LT	726.38	721.26	3.8	--	--	--	--	--	--	--	--	--	1	--
162C	162BRE+01.64	25.0' RT	725.88	721.38	3.2	--	--	--	--	--	--	--	--	--	1	--
164	163BRE+98.75	61.5' LT	721.93	716.25	4.3	--	--	--	--	--	1	--	--	--	--	--
164A	163BRE+99.29	35.0' LT	722.42	717.02	4.1	--	--	--	--	--	--	--	--	--	1	--
164B	163BRE+99.90	1.0' LT	722.41	717.18	3.9	--	--	--	--	--	--	--	--	--	1	--
164C	164BRE+00.39	29.5' RT	721.82	717.32	3.2	--	--	--	--	--	--	--	--	--	1	--
166	165BRE+97.77	61.5' LT	718.83	713.32	4.2	--	--	--	--	--	1	--	--	--	--	--
166A	165BRE+98.81	35.0' LT	719.32	714.16	3.8	--	--	--	--	--	--	--	--	--	1	--
166B	166BRE+00.09	1.0' LT	718.72	714.29	3.1	--	--	--	--	--	--	--	--	--	1	--
166C	166BRE+01.50	37.0' RT	717.98	714.43	2.2	--	--	--	--	--	--	--	--	--	1	--
167	166BRE+67.55	61.5' LT	718.44	712.35	4.8	--	--	--	--	--	1	--	--	--	--	--
167A	166BRE+86.00	61.5' LT	718.42	708.20	8.9	--	--	--	--	--	1	--	--	--	--	--
167B	167BRE+09.00	61.5' LT	718.46	708.12	9.0	--	--	--	--	--	1	--	--	--	--	--
167C	166BRE+68.20	35.0' LT	718.96	714.51	3.1	--	--	--	--	--	--	--	--	--	1	--
167D	166BRE+87.68	34.4' LT	718.93	710.09	7.5	--	--	--	--	--	1	--	--	--	--	--
167E	166BRE+68.85	1.0' LT	718.25	713.78	3.1	--	--	--	--	--	--	--	--	--	1	--
167F	166BRE+88.49	1.0' LT	718.20	710.23	6.6	--	--	--	--	--	1	--	--	--	--	--
167G	167BRE+02.68	27.1' RT	717.32	710.37	5.6	--	--	--	--	--	--	--	1	--	--	--

STORM SEWER STRUCTURES

						611.0624	611.0639	611.0642	SPV.0060.001		
						INLET	INLET	INLET	INLET		
						COVERS	COVERS	COVERS	COVERS		
STRUCTURE		OFFSET	RIM	LOWEST	STR	TYPE H	TYPE H-S	TYPE MS	BEEHIVE		
NUMBER	STATION	FT	ELEV	INVERT	DEPTH	EACH	EACH	EACH	EACH	COMMENTS	
BRAUN EAST STAGE 1											
Ex857	856HN+81.15	90.3' RT	737.50	730.52	5.6	1	--	--	--	--	
157	157BRE+10.13	73.4' LT	735.26	728.67	5.3	1	--	--	--	--	
157A	157BRE+11.11	35.0' LT	735.98	730.52	4.1	1	--	--	--	--	
157B	157BRE+11.32	25.0' LT	735.73	730.56	3.8	1	--	--	--	--	
157C	157BRE+11.76	11.0' LT	735.49	730.62	3.5	1	--	--	--	--	
157D	157BRE+11.90	1.0' LT	735.87	730.66	3.9	1	--	--	--	--	
157E	157BRE+12.81	28.9' RT	735.30	730.80	3.2	1	--	--	--	--	
158	158BRE+54.46	69.4' LT	732.65	725.88	5.4	1	--	--	--	--	
158A	158BRE+55.58	25.9' LT	733.47	728.04	4.1	1	--	--	--	--	
158B	158BRE+56.19	1.0' LT	733.26	728.15	3.8	1	--	--	--	--	
158C	158BRE+56.81	25.0' RT	732.77	728.27	3.2	1	--	--	--	--	
159	160BRE+10.12	61.5' LT	729.70	723.54	4.8	1	--	--	--	--	
159A	160BRE+10.11	35.0' LT	730.19	725.10	3.8	1	--	--	--	--	
159B	160BRE+10.15	1.0' LT	730.19	725.26	3.6	1	--	--	--	--	
159C	160BRE+10.24	25.0' LT	729.71	725.38	3.0	1	--	--	--	--	
162	161BRE+99.96	61.5' LT	725.90	719.66	4.9	1	--	--	--	--	
162A	162BRE+00.47	35.0' LT	726.39	721.10	4.0	1	--	--	--	--	
162B	162BRE+01.11	1.00' LT	726.38	721.26	3.8	1	--	--	--	--	
162C	162BRE+01.64	25.0' RT	725.88	721.38	3.2	1	--	--	--	--	
164	163BRE+98.75	61.5' LT	721.93	716.25	4.3	1	--	--	--	--	
164A	163BRE+99.29	35.0' LT	722.42	717.02	4.1	1	--	--	--	--	
164B	163BRE+99.90	1.0' LT	722.41	717.18	3.9	1	--	--	--	--	
164C	164BRE+00.39	29.5' RT	721.82	717.32	3.2	1	--	--	--	--	
166	165BRE+97.77	61.5' LT	718.83	713.32	4.2	1	--	--	--	--	
166A	165BRE+98.81	35.0' LT	719.32	714.16	3.8	1	--	--	--	--	
166B	166BRE+00.09	1.0' LT	718.72	714.29	3.1	1	--	--	--	--	
166C	166BRE+01.50	37.0' RT	717.98	714.43	2.2	1	--	--	--	--	
167	166BRE+67.55	61.5' LT	718.44	712.35	4.8	1	--	--	--	--	
167A	166BRE+86.00	61.5' LT	718.42	708.20	8.9	--	1	--	--	--	
167B	167BRE+09.00	61.5' LT	718.46	708.12	9.0	1	--	--	--	--	
167C	166BRE+68.20	35.0' LT	718.96	714.51	3.1	1	--	--	--	--	
167D	166BRE+87.68	34.4' LT	718.93	710.09	7.5	--	1	--	--	--	
167E	166BRE+68.85	1.0' LT	718.25	713.78	3.1	1	--	--	--	--	
167F	166BRE+88.49	1.0' LT	718.20	710.23	6.6	--	1	--	--	--	
167G	167BRE+02.68	27.1' RT	717.32	710.37	5.6	1	--	--	--	--	

STORM SEWER STRUCTURES																					
		520.1015		520.1018		520.1024		520.1036		522.2624		611.2004		611.2005		611.3004		611.3230		611.3902	
		APRON ENDWALLS		APRON ENDWALLS		APRON ENDWALLS		APRON ENDWALLS		APRON ENDWALLS		MANHOLES		MANHOLES		INLETS		INLETS		INLETS	
		FOR CULVERT PIPE RCCP		FOR CULVERT PIPE RCCP		FOR CULVERT PIPE RCCP		FOR CULVERT PIPE RCCP		FOR CULVERT PIPE RCCP		4-FT DIAMETER		5-FT DIAMETER		4-FT DIAMETER		2X3-FT		2 GRATE	
STRUCTURE	OFFSET	RIM	LOWEST	STR	15"	18"	24"	36"	24X38-INCH	4-FT DIAMETER	5-FT DIAMETER	4-FT DIAMETER	2X3-FT	2 GRATE							
NUMBER	STATION	FT	ELEV	INVERT	DEPTH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH							
167J	166BRE+88.66	59.1' RT	716.98	710.52	5.1	--	--	--	--	--	--	--	--	1	--	--					
167L	167BRE+40.98	57.0' RT	717.41	710.78	5.3	--	--	--	--	--	--	--	--	1	--	--					
167M	167BRE+96.36	74.5' RT	717.24	711.00	4.9	--	--	--	--	--	--	--	--	1	--	--					
168	168BRE+18.03	61.5' LT	718.97	707.60	10.0	--	--	--	--	--	1	--	--	--	--	--					
168A	168BRE+18.70	34.6' LT	719.47	714.11	4.0	--	--	--	--	--	--	--	--	--	--	1					
168B	168BRE+18.90	25.5' LT	719.22	714.14	3.7	--	--	--	--	--	--	--	--	1	--	--					
168C	168BRE+36.93	10.5' LT	719.06	714.25	3.5	--	--	--	--	--	--	--	--	1	--	--					
168D	168BRE+37.12	2.2' LT	719.06	714.28	3.4	--	--	--	--	--	--	--	--	1	--	--					
168E	168BRE+41.02	43.3' RT	718.13	714.43	2.4	--	--	--	--	--	--	--	--	1	--	--					
EW1	166BRE+74.84	91.9' RT	712.90	--	--	--	--	--	1	--	--	--	--	--	--	--					
EW2	168BRE+72.08	82.5' RT	711.50	--	--	--	--	--	1	--	--	--	--	--	--	--					
EW3	169BRE+02.04	79.6' RT	711.18	--	--	--	--	1	--	--	--	--	--	--	--	--					
EW4	169BRE+50.00	106.4' LT	710.00	--	--	--	--	1	--	--	--	--	--	--	--	--					
170	170BRE+39.34	61.5' LT	719.48	706.51	11.6	--	--	--	--	--	1	--	--	--	--	--					
170A	170BRE+40.03	35.0' LT	719.99	713.61	5.0	--	--	--	--	--	--	--	--	--	--	1					
170B	170BRE+40.27	25.0' LT	719.74	713.65	4.8	--	--	--	--	--	--	--	--	--	--	1					
170C	170BRE+40.62	11.0' LT	719.49	713.71	4.4	--	--	--	--	--	--	--	--	--	--	1					
170D	170BRE+40.86	1.0' LT	718.86	713.75	3.8	--	--	--	--	--	--	--	--	--	--	1					
170E	170BRE+41.50	25.0' RT	718.37	713.87	3.2	--	--	--	--	--	--	--	--	--	--	1					
172	171BRE+99.71	61.5' LT	718.53	707.74	9.5	--	--	--	--	--	1	--	--	--	--	--					
172A	172BRE+00.53	25.9' LT	718.84	712.84	4.7	--	--	--	--	--	--	--	--	--	--	1					
172B	172BRE+01.19	1.0' LT	718.06	712.95	3.8	--	--	--	--	--	--	--	--	--	--	1					
172C	172BRE+01.83	25.0' RT	717.57	713.07	3.2	--	--	--	--	--	--	--	--	--	--	1					
174	173BRE+68.98	54.8' LT	717.45	708.41	7.7	--	--	--	--	--	1	--	--	--	--	--					
176	175BRE+34.89	43.1' LT	716.42	709.06	6.0	--	--	--	--	--	1	--	--	--	--	--					
176A	175BRE+35.40	22.4' LT	716.81	709.14	6.3	--	--	--	--	--	--	--	--	1	--	--					
176B	175BRE+35.92	1.5' LT	716.38	709.23	5.8	--	--	--	--	--	--	--	--	1	--	--					
176C	175BRE+36.43	16.7' LT	716.00	709.31	5.4	--	--	--	--	--	1	--	--	--	--	--					
EW11	170BRE+37.87	149.3' LT	706.00	--	--	--	--	1	--	--	--	--	--	--	--	--					
178E	177BRE+52.45	27.5' LT	715.25	710.75	3.2	--	--	--	--	--	--	--	--	--	--	1					
178	177BRE+74.38	26.3' LT	715.23	710.66	3.2	--	--	--	--	--	--	--	--	1	--	--					
178A	177BRE+74.79	10.9' LT	715.50	710.60	3.6	--	--	--	--	--	--	--	--	--	--	1					
178B	177BRE+75.04	1.0' LT	715.43	710.56	3.5	--	--	--	--	--	--	--	--	--	--	1					
178C	177BRE+75.38	13.5' RT	715.19	710.25	3.6	--	--	--	--	--	1	--	--	--	--	--					
178D	177BRE+49.99	14.0' RT	715.16	710.18	3.6	--	--	--	--	--	1	--	--	--	--	--					

STORM SEWER STRUCTURES

STRUCTURE		OFFSET	RIM	LOWEST	STR *	611.0624	611.0639	611.0642	SPV.0060.001	COMMENTS
						INLET	INLET	INLET	INLET	
						COVERS	COVERS	COVERS	COVERS	
						TYPE H	TYPE H-S	TYPE MS	BEEHIVE	
NUMBER	STATION	FT	ELEV	INVERT	DEPTH	EACH	EACH	EACH	EACH	
167J	166BRE+88.66	59.1' RT	716.98	710.52	5.1	1	--	--	--	--
167L	167BRE+40.98	57.0' RT	717.41	710.78	5.3	1	--	--	--	--
167M	167BRE+96.36	74.5' RT	717.24	711.00	4.9	1	--	--	--	--
168	168BRE+18.03	61.5' LT	718.97	707.60	10.0	1	--	--	--	--
168A	168BRE+18.70	34.6' LT	719.47	714.11	4.0	1	--	--	--	--
168B	168BRE+18.90	25.5' LT	719.22	714.14	3.7	1	--	--	--	--
168C	168BRE+36.93	10.5' LT	719.06	714.25	3.5	1	--	--	--	--
168D	168BRE+37.12	2.2' LT	719.06	714.28	3.4	1	--	--	--	--
168E	168BRE+41.02	43.3' RT	718.13	714.43	2.4	1	--	--	--	--
EW1	166BRE+74.84	91.9' RT	712.90	--	--	--	--	--	--	--
EW2	168BRE+72.08	82.5' RT	711.50	--	--	--	--	--	--	--
EW3	169BRE+02.04	79.6' RT	711.18	--	--	--	--	--	--	--
EW4	169BRE+50.00	106.4' LT	710.00	--	--	--	--	--	--	--
170	170BRE+39.34	61.5' LT	719.48	706.51	11.6	1	--	--	--	--
170A	170BRE+40.03	35.0' LT	719.99	713.61	5.0	1	--	--	--	--
170B	170BRE+40.27	25.0' LT	719.74	713.65	4.8	1	--	--	--	--
170C	170BRE+40.62	11.0' LT	719.49	713.71	4.4	1	--	--	--	--
170D	170BRE+40.86	1.0' LT	718.86	713.75	3.8	1	--	--	--	--
170E	170BRE+41.50	25.0' RT	718.37	713.87	3.2	1	--	--	--	--
172	171BRE+99.71	61.5' LT	718.53	707.74	9.5	1	--	--	--	--
172A	172BRE+00.53	25.9' LT	718.84	712.84	4.7	1	--	--	--	--
172B	172BRE+01.19	1.0' LT	718.06	712.95	3.8	1	--	--	--	--
172C	172BRE+01.83	25.0' RT	717.57	713.07	3.2	1	--	--	--	--
174	173BRE+68.98	54.8' LT	717.45	708.41	7.7	1	--	--	--	--
176	175BRE+34.89	43.1' LT	716.42	709.06	6.0	1	--	--	--	--
176A	175BRE+35.40	22.4' LT	716.81	709.14	6.3	1	--	--	--	--
176B	175BRE+35.92	1.5' LT	716.38	709.23	5.8	1	--	--	--	--
176C	175BRE+36.43	16.7' LT	716.00	709.31	5.4	1	--	--	--	--
EW11	170BRE+37.87	149.3' LT	706.00	--	--	--	--	--	--	--
178E	177BRE+52.45	27.5' LT	715.25	710.75	3.2	1	--	--	--	--
178	177BRE+74.38	26.3' LT	715.23	710.66	3.2	--	1	--	--	--
178A	177BRE+74.79	10.9' LT	715.50	710.60	3.6	--	1	--	--	--
178B	177BRE+75.04	1.0' LT	715.43	710.56	3.5	--	1	--	--	--
178C	177BRE+75.38	13.5' RT	715.19	710.25	3.6	1	--	--	--	--
178D	177BRE+49.99	14.0' RT	715.16	710.18	3.6	--	1	--	--	--

STORM SEWER STRUCTURES

						520.1015	520.1018	520.1024	520.1036	522.2624	611.2004	611.2005	611.3004	611.3230	611.3902
						APRON ENDWALLS	APRON ENDWALLS	APRON ENDWALLS	APRON ENDWALLS	APRON ENDWALLS					INLETS
						FOR CULVERT PIPE RCCP	FOR CULVERT PIPE RCCP	FOR CULVERT PIPE RCCP	FOR CULVERT PIPE RCCP	FOR CULVERT PIPE RCCP	MANHOLES	MANHOLES	INLETS	INLETS	MEDIAN
STRUCTURE	OFFSET	RIM	LOWEST	STR		15"	18"	24"	36"	24X38-INCH	4-FT DIAMETER	5-FT DIAMETER	4-FT DIAMETER	2X3-FT	2 GRATE
NUMBER	STATION	FT	ELEV	INVERT	DEPTH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH
EW5	179BRE+36.04	70.8' RT	709.49	--	--	--	--	1	--	--	--	--	--	--	--
EW6	179BRE+25.00	55.3' LT	710.40	--	--	--	--	1	--	--	--	--	--	--	--
180	180BRE+25.00	27.7' RT	713.50	709.95	3.5	--	--	--	--	--	--	--	--	--	1
EW7	180BRE+26.06	68.4' RT	709.72	--	--	1	--	--	--	--	--	--	--	--	--
187	187BRE+27.25	24.9' RT	706.95	703.93	3.0	--	--	--	--	--	--	--	--	--	1
EW8	187BRE+25.45	59.3' RT	703.81	--	--	--	1	--	--	--	--	--	--	--	--
EW9	187BRE+25.00	40.5' LT	704.13	--	--	--	1	--	--	--	--	--	--	--	--
199	198BRE+96.66	25.2' RT	702.02	696.75	5.3	--	--	--	--	--	--	--	--	--	1
EW10	198BRE+97.36	68.8' RT	696.51	--	--	1	--	--	--	--	--	--	--	--	--
206	206BRE+00.06	25.0' RT	697.22	694.67	2.6	--	--	--	--	--	--	--	--	--	1
EW12	205BRE+99.70	57.6' RT	694.42	--	--	1	--	--	--	--	--	--	--	--	--
EW13	207BRE+69.47	56.8' RT	693.92	--	--	--	1	--	--	--	--	--	--	--	--
EW14	208BRE+72.15	33.3' RT	692.82	--	--	--	1	--	--	--	--	--	--	--	--
EW15	171BRE+18.71	414.0' LT	705.50	--	--	--	--	1	--	--	--	--	--	--	--
EW16	171BRE+16.58	462.5' LT	705.38	--	--	--	--	1	--	--	--	--	--	--	--
178G	177BRE+49.62	1.00' LT	715.43	710.49	3.61	--	--	--	--	--	--	--	--	1	--
208	207BRE+49.15	40.4' LT	693.14	689.50	2.3	--	--	--	--	--	1	--	--	--	--
STAGE 1 SUBTOTALS						3	4	5	2	2	2	19	11	35	4

STORM SEWER STRUCTURES										
STRUCTURE		OFFSET	RIM	LOWEST	STR *	611.0624	611.0639	611.0642	SPV.0060.001	
						INLET	INLET	INLET	INLET	
						COVERS	COVERS	COVERS	COVERS	
						TYPE H	TYPE H-S	TYPE MS	BEEHIVE	
NUMBER	STATION	FT	ELEV	INVERT	DEPTH	EACH	EACH	EACH	EACH	COMMENTS
EW5	179BRE+36.04	70.8' RT	709.49	--	--	--	--	--	--	--
EW6	179BRE+25.00	55.3' LT	710.40	--	--	--	--	--	--	--
180	180BRE+25.00	27.7' RT	713.50	709.95	3.5	--	--	2	--	--
EW7	180BRE+26.06	68.4' RT	709.72	--	--	--	--	--	--	--
187	187BRE+27.25	24.9' RT	706.95	703.93	3.0	--	--	2	--	--
EW8	187BRE+25.45	59.3' RT	703.81	--	--	--	--	--	--	--
EW9	187BRE+25.00	40.5' LT	704.13	--	--	--	--	--	--	--
199	198BRE+96.66	25.2' RT	702.02	696.75	5.3	--	--	2	--	--
EW10	198BRE+97.36	68.8' RT	696.51	--	--	--	--	--	--	--
206	206BRE+00.06	25.0' RT	697.22	694.67	2.6	--	--	2	--	--
EW12	205BRE+99.70	57.6' RT	694.42	--	--	--	--	--	--	--
EW13	207BRE+69.47	56.8' RT	693.92	--	--	--	--	--	--	--
EW14	208BRE+72.15	33.3' RT	692.82	--	--	--	--	--	--	--
EW15	171BRE+18.71	414.0' LT	705.50	--	--	--	--	--	--	--
EW16	171BRE+16.58	462.5' LT	705.38	--	--	--	--	--	--	--
178G	177BRE+49.62	1.00' LT	715.43	710.49	3.61	1	--	--	--	--
208	207BRE+49.15	40.4' LT	693.14	689.50	2.3	--	--	--	1	--
STAGE 1 SUBTOTALS						59	7	8	1	--

PIPE UNDERDRAIN				
SPV.0090.002				
PIPE				
UNDERDRAIN				
6-INCH				
SPECIAL				
ROADWAY	STRUCTURE NUMBER	STATION	OFFSET	LF
BRAUN EAST STAGE 1				
	167	166BRE+67.55	61.50' LT	50
	167B	167BRE+09.00	61.50' LT	50
	167D	166BRE+87.68	34.41' LT	50
	167C	166BRE+68.20	35.00' LT	25
	167E	166BRE+68.85	1.00' LT	25
	167F	166BRE+88.49	1.00' LT	50
	178	177BRE+74.38	26.30' LT	50
	178E	89BRE+54.29	37.50 RT	25
	178A	177BRE+74.79	10.92' LT	50
	178B	177BRE+75.04	1.00' LT	50
	178C	177BRE+75.38	13.50' RT	50
	178D	177BRE+49.99	13.97' RT	25
UNDISTRIBUTED				100
STAGE 1 SUBTOTAL				600
PROJECT 2704-09-71 TOTALS				600

PIPE GRATE			
611.9800.S			
PIPE			
GRATE			
STRUCTURE ID	STATION	OFFSET	EACH
170M	171BRE+17.18	448.45 LT	1
PROJECT 2704-09-71 TOTAL			1

POND OUTLET STORM SEWER STRUCTURE		
SPV.0060.007		
POND Q		
OUTLET		
STORM SEWER		
STRUCTURE		
EACH		
STA. 12PA+50.58, 0.32' LT	POND Q	1
PROJECT 2704-09-71 TOTAL		1

POND LINER CLAY	
	640.1303.S
	POND
	LINER
	CLAY
	CY
POND A	1,140
PROJECT 2704-09-70 TOTAL	1,140

CURB & GUTTER ITEMS									
ROADWAY	STATION	-	STATION	OFFSET	601.0409	601.0411	601.0555	620.0300	620.0300
					CONCRETE	CONCRETE	CONCRETE	CONCRETE MEDIAN	CONCRETE MEDIAN
					CURB AND GUTTER	CURB AND GUTTER	CURB AND GUTTER	CURB AND GUTTER	CURB AND GUTTER
					30-INCH TYPE A	30-INCH TYPE D	6-INCH SLOPED	SLOPED	SLOPED
					LF	LF	LF	SF	SF
BRAUN ROAD	156BRE+29	-	167BRE+28	RT	1,137	--	--	--	--
	156BRE+29	-	167BRE+38	LT	1,109	--	--	--	--
	156BRW+29	-	157BRW+17	RT	--	--	89	--	--
	156BRW+29	-	157BRW+17	RT	--	--	89	--	--
	156BRW+29	-	167BRW+38	RT	1,113	--	--	--	--
	156BRW+33	-	172BRW+73	LT	1,642	--	--	--	--
	157BRW+21			RT	--	--	--	84	--
	166BRE+95			RT	--	--	--	62	--
	166BRE+98	-	167BRE+37	RT	39	--	--	--	--
	167BRE+39			LT	--	--	--	--	57
	167BRE+40			RT	--	--	--	--	26
	167BRW+97			RT	--	--	--	--	36
	167BRW+98	-	170BRW+59	RT	--	--	261	--	--
	167BRW+98	-	170BRW+59	RT	--	--	261	--	--
	168BRE+13	-	169BRE+35	RT	177	--	--	--	--
	168BRW+28			RT	--	--	--	63	--
	168BRW+31	-	172BRW+73	RT	443	--	--	--	--
	168BRE+31	-	169BRE+35	LT	104	--	--	--	--
	169BRE+35	-	178BRE+66	LT	--	932	--	--	--
	169BRE+35	-	178BRE+70	RT	--	935	--	--	--
	170BRW+63			RT	--	--	--	84	--
	172BRW+73	-	178BRW+67	RT	--	594	--	--	--
	172BRW+73	-	178BRW+69	LT	--	597	--	--	--
	178BRE+68			LT	--	--	--	--	30
	179BRE+07			LT	--	--	--	--	30
	179BRE+06	-	180BRE+35	RT	--	129	--	--	--
	179BRW+06	-	180BRW+35	LT	--	129	--	--	--
	179BRE+09	-	181BRE+07	LT	--	198	--	--	--
	179BRW+09	-	181BRW+07	RT	--	198	--	--	--
	181BRE+08			LT	--	--	--	--	30
	207BRE+49	-	207BRE+82	LT	--	59	--	--	--
	207BRE+49	-	207BRE+99	RT	--	74	--	--	--
	208BRE+26	-	208BRE+64	RT	--	65	--	--	--
	208BRE+35	-	209BRE+10	LT	--	100	--	--	--
	166BRE+98	-	167BRE+40	RT	86	--	--	--	--
Area 3 Drivew ay	167BRE+59	-	167BRE+65	RT	54	--	--	--	--
	167BRE+73			RT	--	--	--	124	--
	167BRE+79	-	167BRE+79	RT	54	--	--	--	--
	167BRE+96	-	167BRE+97	RT	55	--	--	--	--
	167BRE+96			RT	--	--	--	--	26
	167BRE+97			RT	--	--	--	66	--
	167BRE+99	-	168BRE+17	RT	78	--	--	--	--
PROJECT 2704-09-71 TOTAL					6,092	4,010	700	483	235

CONCRETE SIDEWALK					602.0410 CONCRETE SIDEWALK 5-INCH	602.0505 CURB RAMP DETECTABLE WARNING FIELD YELLOW
ROADWAY	STATION	-	STATION	OFFSET	SF	SF
BRAUN ROAD	156BRW+29	-	157BRW+18	RT	531	--
	156BRE+29	-	157BRE+81	RT	1,160	--
	166BRE+98	-	167BRE+40	RT	768	--
	167BRE+14	-	167BRE+38	LT	497	--
	166BRE+84	-	167BRE+03	RT	170	--
	166BRE+98			RT	--	20
	167BRE+22			RT	--	20
	167BRE+28			RT	--	20
	167BRE+29			LT	--	20
	167BRE+29			LT	--	20
	167BRE+39			RT	--	20
	167BRW+98	-	170BRW+59	RT	1,566	--
	168BRW+07			RT	--	20
	168BRW+07			RT	--	20
	168BRE+31	-	168BRE+51	RT	168	--
	168BRE+31	-	171BRE+22	RT	2,119	--
	176BRE+68	-	178BRE+667	LT	1,501	--
	179BRE+08	-	181BRE+10	LT	990	--
	207BRE+64	-	207BRE+81	LT	127	--
	207BRE+64	-	207BRE+94	RT	180	--
	207BRE+67			RT	--	10
	207BRE+67			LT	--	10
	207BRE+78			LT	--	10
	207BRE+90			RT	--	10
	208BRE+37	-	208BRE+53	LT	120	--
	208BRE+34			RT	--	10
	208BRE+31	-	208BRE+53	RT	164	--
	208BRE+41			LT	--	10
	208BRE+51			RT	--	10
	208BRE+51			LT	--	10
AREA 3 DRIVEWAY	167BRE+62	-	167BRE+79	RT	153	--
	167BRE+96	-	168BRE+16	RT	713	--
	167BRE+97			RT	--	20
	168BRE+07			RT	--	20
	168BRE+11			RT	--	20
	168BRE+35			RT	--	20
PROJECT 2704-09-71 TOTAL					10,927	320

RIPRAP						
ROADWAY	STATION	OFFSET	606.0100	606.0300	645.0120*	645.0130
			RIPRAP		GEOTEXTILE	GEOTEXTILE
			LIGHT	HEAVY	FABRIC	FABRIC
			TYPE HR	TYPE R		
			CY	CY	SY	SY
BRAUN ROAD	168BRE+72	RT	--	24	36	--
	169BRW+50	LT	--	11	17	--
	179BRE+36	RT	--	11	17	--
	180BRE+26	RT	--	11	17	--
	180BRE+35	RT	2	--	--	13
	180BRE+35	LT	2	--	--	13
	187BRE+25	RT	--	11	17	--
	198BRE+97	RT	--	11	17	--
	206BRE+00	RT	--	11	17	--
	208BRE+72	RT	--	11	17	--
SUBTOTAL			4	102	155	26
UNDISTRIBUTED						
PROJECT 2704-09-71 TOTAL			4	102	155	26

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

DRAIN TILE		
ROADWAY	612.0700	SPV.0060.006
	DRAIN TILE	CONNECT
	EXPLORATION	DRAIN TILE
LF		
UNDISTRIBUTED	1,500	10
PROJECT 2704-09-71 TOTAL	1,500	10

FENCE SAFETY	
ROADWAY	616.0700.S
	FENCE
	SAFETY
LF	
PROJECT 2704-09-71	
UNDISTRIBUTED	1,000
PROJECT 2704-09-71 TOTAL	1,000

MOBILIZATION	
ROADWAY	619.1000
	MOBILIZATION
	EACH
PROJECT 2704-09-71	
PROJECT 2704-09-71 TOTAL	1

WATER	
ROADWAY	624.0110*
	WATER
	MGAL
PROJECT 2704-09-71	
PROJECT 2704-09-71 TOTAL	1,856

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

RESTORATION ITEMS					SPV.0180.001	629.0205	630.0140	630.0200
ROADWAY	STATION		OFFSET		TOPSOIL SPECIAL	FERTILIZER TYPE B	SEEDING MIXTURE NO. 40	SEEDING TEMPORARY
					SY	CWT	LB	LB
BRAUN ROAD	156BRE+29	- 167BRE+28	RT		4,400	3.0	79	79
	156BRW+29	- 178BRW+69	LT		17,377	11.0	313	313
	157BRE+81	- 167BRE+14	LT		3,049	2.0	55	55
	167BRE+60	- 167BRE+79	RT		91	.3	2	2
	168BRE+13	- 178BRE+78	RT		5,416	3.5	97	97
	171BRE+22	- 176BRE+68	LT		1,304	1.0	23	23
	178BRE+98	- 207BRE+82	LT		9,823	6.3	177	177
	179BRE+00	- 207BRE+99	RT		24,378	15.5	439	439
	208BRE+25	- 209BRE+10	RT		207	.3	4	4
	208BRE+36	- 209BRE+10	LT		143	.3	3	3
SUBTOTAL					66,188	41.75	1,192	1,192
UNDISTRIBUTED					16,600	20.00	300	300
PROJECT 2704-09-71 TOTAL					82,788	61.75	1,492	1,492

EROSION CONTROL									
				628.1104*	628.1905	628.1910	628.2008	628.7504	628.7555
					MOBILIZATIONS	MOBILIZATIONS	EROSION MAT		
				EROSION	EROSION	EMERGENCY	URBAN	TEMPORARY	CULVERT
				BALES	CONTROL	EROSION	CLASS I	DITCH	PIPE
				EACH	EACH	CONTROL	TYPE B	CHECKS	CHECKS
ROADWAY	STATION			OFFSET					
BRAUN ROAD	156BRE+29 - 167BRE+28		RT	--	--	--	4,400	--	--
	156BRW+29 - 178BRW+69		LT	--	--	--	15,028	--	--
	157BRW+30		LT	--	--	--	--	8	--
	157BRE+81 - 167BRE+14		LT	--	--	--	3,049	--	--
	159BRW+30		LT	--	--	--	--	8	--
	161BRW+30		LT	--	--	--	--	8	--
	161BRE+52		RT	--	--	--	--	8	--
	163BRE+56		RT	--	--	--	--	8	--
	165BRE+13		RT	--	--	--	--	8	--
	165BRW+30		LT	--	--	--	--	8	--
	166BRE+65		RT	--	--	--	--	--	2
	167BRW+29		LT	--	--	--	--	8	--
	167BRE+60 - 167BRE+79		RT	--	--	--	91	--	--
	168BRE+13 - 178BRE+78		RT	--	--	--	5,416	--	--
	168BRE+99		RT	--	--	--	--	--	2
	169BRW+29		LT	--	--	--	--	8	--
	169BRW+82		LT	--	--	--	--	8	--
	169BRW+93 - 171BRW+80		LT	--	--	--	2,349	--	--
	170BRE+84		RT	--	--	--	--	8	--
171BRE+22 - 176BRE+68		LT	--	--	--	1,304	--	--	
171BRW+81		LT	--	--	--	--	8	--	
175BRE+70		RT	--	--	--	--	8	--	
176BRW+23		LT	--	--	--	--	8	--	
177BRW+76 - 178BRW+38		LT	24	--	--	--	--	--	
178BRW+00		LT	--	--	--	--	8	--	
178BRE+98 - 207BRE+82		LT	--	--	--	9,823	--	--	
179BRE+00 - 207BRE+99		RT	--	--	--	24,378	--	--	
179BRE+25		LT	--	--	--	--	--	2	
179BRW+48		LT	--	--	--	--	8	--	
181BRW+40		LT	--	--	--	--	8	--	

EROSION CONTROL								
			628.1104*	628.1905	628.1910	628.2008	628.7504	628.7555
			EROSION		MOBILIZATIONS	EROSION MAT	TEMPORARY	CULVERT
			BALES	EROSION	EMERGENCY	URBAN	DITCH	PIPE
			EACH	CONTROL	CONTROL	CLASS I	CHECKS	CHECKS
ROADWAY	STATION	OFFSET	EACH	EACH	EACH	SY	LF	EACH
	181BRW+74	LT	--	--	--	--	8	--
	182BRE+45	RT	--	--	--	--	18	--
	182BRE+69 - 185BRE+12	RT	96	--	--	--	--	--
	183BRW+74	LT	--	--	--	--	8	--
	183BRE+75	RT	--	--	--	--	8	--
	184BRE+46	RT	--	--	--	--	18	--
	185BRE+74	LT	--	--	--	--	8	--
	185BRE+76	RT	--	--	--	--	8	--
	186BRE+47	RT	--	--	--	--	18	--
	187BRE+24	LT	--	--	--	--	--	2
	188BRE+47	RT	--	--	--	--	18	--
	189BRE+63	RT	--	--	--	--	8	--
	189BRE+74	LT	--	--	--	--	8	--
	190BRE+46	RT	--	--	--	--	18	--
	192BRE+46	RT	--	--	--	--	18	--
	193BRE+63	LT	--	--	--	--	8	--
	193BRE+69	RT	--	--	--	--	8	--
	194BRE+46	RT	--	--	--	--	18	--
	195BRE+63	LT	--	--	--	--	8	--
	195BRE+69	RT	--	--	--	--	8	--
	196BRE+46	RT	--	--	--	--	18	--
	197BRE+63	LT	--	--	--	--	8	--
	197BRE+69	RT	--	--	--	--	8	--
	198BRE+46	RT	--	--	--	--	18	--
	199BRE+63	LT	--	--	--	--	8	--
	199BRE+69	RT	--	--	--	--	8	--
	200BRE+46	RT	--	--	--	--	18	--
	201BRE+63	LT	--	--	--	--	8	--
	201BRE+69	RT	--	--	--	--	8	--
	202BRE+46	RT	--	--	--	--	18	--
	203BRE+63	LT	--	--	--	--	8	--
	204BRE+44	RT	--	--	--	--	18	--
	205BRE+42	LT	--	--	--	--	8	--
	206BRE+44	RT	--	--	--	--	18	--
	207BRE+57	RT	--	--	--	--	--	2
	208BRE+25 - 209BRE+10	RT	--	--	--	207	--	--
	208BRE+36 - 209BRE+10	LT	--	--	--	143	--	--
SUBTOTAL			120	--	--	66,188	522	10
UNDISTRIBUTED			30	10	8	16,600	140	3
PROJECT 2704-09-71 TOTAL			150	10	8	82,788	662	13

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

SILT FENCE					628.1504	628.1520	SPV.0090.001
					SILT FENCE	SILT FENCE	HEAVY DUTY
ROADWAY	STATION		OFFSET		LF	LF	SILT FENCE
BRAUN ROAD	156BRE+29	- 167BRE+29	RT		1,112	1,112	--
	156BRW+29	- 177BRW+77	LT		2,907	2,907	--
	168BRE+12	- 178BRW+78	RT		1,090	1,090	--
	177BRW+77	- 178BRW+39	LT		--	--	61
	178BRW+98	- 207BRW+80	LT		2,902	2,902	--
	179BRE+00	- 182BRE+69	RT		384	384	--
	182BRE+69	- 185BRE+12	RT		--	--	241
	185BRE+12	- 207BRE+99	RT		2,304	2,304	--
	208BRE+25	- 209BRE+15	RT		130	130	--
	208BRW+38	- 209BRW+15	LT		91	91	--
SUBTOTAL					10,920	10,920	302
UNDISTRIBUTED					2,800	2,800	80
PROJECT 2704-09-71 TOTAL					13,720	13,720	382

INLET PROTECTION				
ROADWAY	STATION	OFFSET	628.7005	628.7020
			INLET	INLET
			PROTECTION	PROTECTION
			TYPE A	TYPE D
			EACH	EACH
BRAUN ROAD	157BRW+04	31.2' LT	1	1
	157BRW+05	7.4' RT	1	1
	157BRW+05	17.3' RT	1	1
	157BRW+05	31.3' RT	1	1
	157BRE+06	5.3' RT	1	1
	157BRE+07	35.7' RT	1	1
	158BRW+48	27.9' LT	1	1
	158BRW+50	17.1' RT	1	1
	158BRE+50	5.0 'RT	1	1
	158BRE+51	30.9' RT	1	1
	160BRE+04	31.3' RT	1	1
	160BRE+04	4.9' RT	1	1
	160BRW+04	6.9' RT	1	1
	160BRW+04	19.6' LT	1	1
	161BRW+94	7.1' RT	1	1
	161BRW+94	19.9' LT	1	1
	161BRE+95	5.1' RT	1	1
	161BRE+96	30.8' RT	1	1
	163BRW+92	6.9' RT	1	1
	163BRW+93	20.1' LT	1	1
	163BRE+93	5.0' RT	1	1
	163BRE+94	35.0' RT	1	1
	165BRW+92	19.3' LT	1	1
	165BRW+92	7.4' RT	1	1
	165BRE+94	5.3' RT	1	1
	165BRE+95	43.2' RT	1	1
	166BRW+61	19.9' LT	1	1
	166BRW+61	6.9' RT	1	1
	166BRE+63	5.0' RT	1	1
	166BRW+80	19.5' LT	1	1
	166BRW+81	6.8' RT	1	1
	166BRE+81	60.0' RT	1	1
	166BRE+82	4.6' RT	1	1
	166BRE+97	32.8' RT	1	1
	167BRW+03	19.5' LT	1	1

INLET PROTECTION				
ROADWAY	STATION	OFFSET	628.7005	628.7020
			INLET	INLET
			PROTECTION	PROTECTION
			TYPE A	TYPE D
			EACH	EACH
	167BRE+35	62.5' RT	1	1
	167BRE+90	80.4' RT	1	1
	168BRW+11	20.4' LT	1	1
	168BRW+13	7.4' RT	1	1
	168BRW+13	12.7' RT	1	1
	168BRE+32	42.3' RT	1	1
	168BRE+30	2.7' RT	1	1
	168BRW+30	31.0' RT	1	1
	170BRW+33	19.9' LT	1	1
	170BRW+34	6.6' RT	1	1
	170BRW+34	17.1' RT	1	1
	170BRW+34	31.1' RT	1	1
	170BRE+34	5.4' RT	1	1
	170BRE+35	31.1' RT	1	1
	171BRW+93	18.9' LT	1	1
	171BRW+95	16.5' RT	1	1
	171BRE+95	4.8' RT	1	1
	171BRE+96	31.1' RT	1	1
	173BRW+62	17.5' LT	1	1
	175BRW+28	14.0' LT	1	1
	175BRW+29	6.8' RT	1	1
	175BRE+30	5.0' RT	1	1
	175BRE+30	25.8' RT	1	1
	177BRW+46	8.8' LT	1	1
	177BRE+44	4.9' RT	1	1
	177BRE+44	20.0' RT	1	1
	177BRW+68	8.2' LT	1	1
	177BRW+69	6.9' RT	1	1
	177BRE+69	4.7' RT	1	1
	177BRE+69	19.0' RT	1	1
	180BRE+19	33.5' RT	1	1
	187BRE+19	31.2' RT	1	1
	198BRE+90	31.3' RT	1	1
	205BRE+94	31.2' RT	1	1
	207+BRE43	34.6' LT	1	1
PROJECT 2704-09-71 TOTAL			70	70

TRACKING PADS	
	628.7560
TRACKING PADS	
PROJECT 2704-09-71	EACH
UNDISTRIBUTED	8
PROJECT 2704-09-71 TOTAL	8

PERMANENT SIGNING									
				637.2210		637.2230*		634.0618	
				SIGN SIZE		SIGN TYPE II		SIGN MOUNTED ON SAME	
						SIGN TYPE II		SIGN #	
						REFLECTIVE H		REFLECTIVE F	
						SF		SF	
SIGN NUMBER	SIGN CODE	SIGN MESSAGE	INCH	X	INCH	SF		SF	REMARKS
P001	J2-1	WAY FINDING	24	X	57	9.5		--	1
P002	R3-20LL	BEGIN LEFT TURN LANE	24	X	36	6		--	1
P003	J2-1	WAY FINDING	24	X	57	9.5		--	1
P004	R5-1A	WRONG WAY	36	X	24	6		--	P005
P005	R3-20L	BEGIN LEFT TURN LANE	24	X	36	6		--	P004
P006	R2-1	SPEED LIMIT 35	24	X	30	5		--	1
P007	R2-1	SPEED LIMIT 35	24	X	30	5		--	1
P008	J1-1	WAY FINDING	24	X	39	6.5		--	1
P009	J1-1	WAY FINDING	24	X	39	6.5		--	1
P010	R5-1A	WRONG WAY	36	X	24	6		--	1
P011	W12-1-D	DOUBLE ARROW	24	X	24	--		4	2-FOOT MOUNTING HEIGHT
P012	R4-7	KEEP RIGHT	24	X	30	5		--	1
P013	R6-1L	ONE WAY LEFT	24	X	30	5		--	1
P014	R5-1	DO NOT ENTER	30	X	30	6.25		--	1
P015	R4-7	KEEP RIGHT	24	X	30	5		--	1
P016	R5-1	DO NOT ENTER	30	X	30	6.25		--	1
P017	R1-1	STOP SIGN	30	X	30	5.18		--	1
P018	R4-7	KEEP RIGHT	24	X	30	5		--	1
P019	R6-3	DIVIDED HIGHWAY CROSSING	30	X	24	5		--	1
P020	W12-1-D	DOUBLE ARROW	24	X	24	--		4	2-FOOT MOUNTING HEIGHT
P021	R2-1	SPEED LIMIT 35	24	X	30	5		--	1
P022	R2-1	SPEED LIMIT 35	24	X	30	5		--	1
P023	R5-1A	WRONG WAY	36	X	24	6		--	P024
P024	R3-20LL	BEGIN LEFT TURN LANE	24	X	36	6		--	P023
P025	W4-2	LANE ENDS	36	X	36	--		9	1

* ADDITIONAL QUANTTTIES SHOWN ELSEWHERE

PERMANENT SIGNING									
				637.2210		637.2230*		634.0618	
				SIGN SIZE		SIGN TYPE II		SIGN MOUNTED	
						TYPE II		ON SAME	
						REFLECTIVE H		POST AS	
						REFLECTIVE F		SIGN #	
								4X6-INCH X 18-FT	
SIGN NUMBER	SIGN CODE	SIGN MESSAGE	INCH	X	INCH	SF	SF	POST AS	REMARKS
								SIGN #	EACH
P026	W4-2	LANE ENDS	36	X	36	--	9		1
P027	R3-20L	BEGIN LEFT TURN LANE	24	X	36	6	--		1
P028	W10-1	GRADE CROSSING AHEAD	36	X	36	--	4.91		1
P029	W6-2	DIVIDED HIGHWAY ENDS	36	X	36	--	9		1
P030	R5-1A	WRONG WAY	36	X	24	6	--		1
P031	R4-7	KEEP RIGHT	24	X	30	5	--		1
P032	R5-1	DO NOT ENTER	30	X	30	6.25	--		1
P033	W10-1	GRADE CROSSING AHEAD	36	X	36	--	4.91		1
P034	R2-1	SPEED LIMIT 45	24	X	30	5	--		1
P035	R2-1	SPEED LIMIT 35	24	X	30	5	--		1
P036	W6-3	TWO-WAY TRAFFIC	36	X	36	--	9		1
P037	W14-3	NO PASSING ZONE	48	X	36	--	5.56		1
P038	W14-3	NO PASSING ZONE	48	X	36	--	5.56		1
P039	W3-1	STOP SIGN AHEAD	36	X	36	--	9		1
P040	R2-1	SPEED LIMIT 45	24	X	30	5	--		1
P041	R1-1	STOP SIGN	30	X	30	5.18	--		1
P042	R1-1	STOP SIGN	30	X	30	5.18	--		1
P043	R1-3P	ALL WAY	18	X	6	0.75	--	P041	--
P044	R1-3P	ALL WAY	18	X	6	0.75	--	P042	--
P045	R1-1	STOP SIGN	30	X	30	5.18	--		1
P046	R1-1	STOP SIGN	30	X	30	5.18	--		1
P047	R1-3P	ALL WAY	18	X	6	0.75	--	P045	--
P048	R1-3P	ALLWAY	18	X	6	0.75	--	P046	--
PROJECT 2704-09-71 TOTAL						192.70	73.90		42

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

SIGN REMOVAL						
SIGN NUMBER	STATION	LOCATION	638.2602	638.3000	SIGN	REMARKS
			REMOVING	REMOVING	MOUNTED	
			SIGNS	SMALL SIGN	ON SAME	
			TYPE II	SUPPORT	POST AS	
			EACH	EACH	SIGN #	
R001			1	1		LANE ENDS
R002			1	1		TRAFFIC SIGNAL AHEAD W/ FLAGS
R003			1	1		GRADE CROSSING AHEAD
R004			1	1		SPEED LIMIT 45
R005			1	1		GRADE CROSSING AHEAD
R006			1	1		SPEED LIMIT 45
R007			1	1		STOP AHEAD
R008			1	1		SPEED LIMIT 45
R009			1	1		STOP SIGN
R010			1	1		STOP SIGN
R011			1	1		STOP SIGN
R012			1	1		STOP SIGN
PROJECT 2704-09-71 TOTAL			12	12		

TRAFFIC CONTROL ITEMS													
ROADWAY	STAGE DURATION DAYS	637.2230*		643.0300		643.0420		643.0705		643.0715		643.0900*	
		SIGNS		TRAFFIC		TRAFFIC		TRAFFIC		TRAFFIC		TRAFFIC	
		TYPE II		CONTROL		CONTROL		CONTROL		CONTROL		CONTROL	
		REFLECTIVE F		DRUMS		BARRICADES		WARNING		WARNING		SIGNS	
		EACH	SF	EACH^	DAYS	EACH^	DAYS	EACH^	DAYS	EACH^	DAYS	EACH^	DAYS
BRAUN ROAD	140	4	20	--	--	18	2,520	36	5,040	--	--	14	1,960
SUBTOTAL			20	--	--		2,520		5,040	--	--		1,960
UNDISTRIBUTED		--	--	100	14,000	--	--	--	--	100	14,000	10	1,400
PROJECT 2704-09-71 TOTAL			20		14,000		2,520		5,040		14,000		3,360

^ FOR INFORMATION ONLY
* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

TEMPORARY PORTABLE RUMBLE STRIPS

643.0310.S TEMPORARY PORTABLE RUMBLE STRIPS	
ROADWAY	LS
PROJECT 2704-09-71	1
PROJECT 2704-09-71 TOTAL	1

DETOUR ITEMS

		643.0900*		643.1000		643.0920
		TRAFFIC CONTROL SIGNS		TRAFFIC CONTROL SIGNS		TRAFFIC CONTROL CONVERGING SIGNS
		SIGNS		FIXED MESSAGE		TYPE II
ROADWAY	DURATION	EACH	DAYS	EACH	SF	EACH
BRAUN ROAD	139	63	8,757	25	125	--
SUBTOTAL			8,757	25	125	--
UNDISTRIBUTED			--		--	10
PROJECT 2704-09-71 TOTAL			8,757		125	10

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

PAVEMENT MARKINGS

	646.1020		646.3020		646.5020	646.5120	646.5320	646.6120	646.7120	646.7420	646.8120	646.8220
							MARKING			MARKING		
					MARKING	MARKING	RAILROAD	MARKING	MARKING	CROSSWALK	MARKING	MARKING
					ARROW	WORD	CROSSING	STOP LINE	DIAGONAL	EPOXY	CURB	ISLAND
					EPOXY	EPOXY	EPOXY	EPOXY 18-INCH	EPOXY 12-INCH	TRANSVERSE	EPOXY	NOSE
					(WHITE)	(WHITE)	(WHITE)	(WHITE)	(YELLOW)	(WHITE)	YELLOW	YELLOW
ROADWAY	LF	LF	LF	LF	EACH	EACH	EACH	LF	LF	LF	LF	EACH
BRAUN ROAD	887	6,336	982	--	5	4	2	120	65	450	98	2
AREA 3 DRIVEWAY	--	--	139	--	--	--	--	28	--	139	43	1
90TH STREET	41	75	--	--	--	--	--	42	--	177	--	--
PROJECT 2704-09-71 TOTAL	7,339		1,121		5	4	2	190	65	766	141	3

SAWING PAVEMENT

				690.0150
				SAWING
				ASPHALT
ROADWAY	STATION		OFFSET	LF
BRAUN	156BRE+29	-	156BRE+29	RT/LT
	207BRE+84	-	208BRE+35	LT
	207BRE+99	-	208BRE+25	RT
	209BRE+10	-	209BRE+09	RT/LT
	232BRE+08	-	232BRE+08	RT/LT
PROJECT 2704-09-71 TOTAL				279

EXCAVATION BELOW SUBGRADE (EBS)

		SPV.0035.002	SPV.0035.003
		EBS	EBS
		EXCAVATION	BACKFILL
ROADWAY		CY	CY
UNDISTRIBUTED		6,346	6,346
PROJECT 2704-09-71 TOTAL		6,346	6,346

EROSION CONTROL SPECIAL

		628.1104*	645.0120*	SPV.0060.002	SPV.0060.003	SPV.0060.004	SPV.0060.005
		EROSION	GEOTEXTILE	TEMPORARY		TEMPORARY	EROSION
		BALES	FABRIC	STONE		SEDIMENT	CONTROL
		EACH	TYPE HR	DITCH CHECKS	SAND BAGS	TRAPS	FILTER
ROADWAY		EACH	SY	EACH	EACH	EACH	BAGS
PROJECT 2704-09-71		76	191	40	50	6	5
PROJECT 2704-09-71 TOTAL		76	191	40	50	6	5

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

MOBILIZATION EMERGENCY PAVEMENT REPAIR

		SPV.0060.008
		MOBILIZATION
		EMERGENCY
		PAVEMENT
		REPAIR
ROADWAY		EACH
PROJECT 2704-09-71		10
PROJECT 2704-09-71 TOTAL		10

PAVEMENT CLEANUP

		SPV.0075.001
		PAVEMENT
		CLEANUP
		PROJECT
		2704-09-71
ROADWAY		HOURS
PROJECT 2704-09-71		200
PROJECT 2704-09-71 TOTAL		200

SECTION CORNER MONUMENTS

		SPV.0060.010
		SECTION
		CORNER
		MONUMENTS
ROADWAY		EACH
PROJECT 2704-09-71		3
PROJECT 2704-09-71 TOTAL		3

SURVEY PROJECT

		SPV.0105.001
		SURVEY
		PROJECT
		(2704-09-71)
ROADWAY		LS
PROJECT 2704-09-71		1
PROJECT 2704-09-71 TOTAL		1

FILED
18 AUG 14 PM 4:09
RACINE COUNTY

R/W PROJECT NUMBER MP011718	SHEET NUMBER 4.00	TOTAL SHEETS 5
CONSTRUCTION PROJECT NUMBER 2704-09-70		
PLAT OF RIGHT OF WAY REQUIRED FOR BRAUN ROAD CTH H TO 90TH ST		
BRAUN ROAD		RACINE COUNTY

THE NOTES, CONVENTIONAL SIGNS, AND ABBREVIATIONS ARE ASSOCIATED WITH EACH RIGHT OF WAY PLAT FOR PROJECT MP011718.

NOTES:
POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, RACINE COUNTY, NAD83 (97), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY 3/4" X 24" IRON REBARS), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

ALL RIGHT-OF-WAY LINES DEPICTED IN THE NON-ACQUISITION AREAS ARE INTENDED TO RE-ESTABLISH EXISTING RIGHT-OF-WAY LINES AS DETERMINED FROM PREVIOUS PROJECTS, OTHER RECORDED DOCUMENTS, OR FROM CENTERLINE OF EXISTING PAVEMENTS.

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS" OF PUBLIC RECORD.

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO THE NEW REFERENCE LINES.

A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON, THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE. ALL (TLEs) ON THIS PLAT EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

A PERMANENT LIMITED EASEMENT (PLE) IS A RIGHT FOR CONSTRUCTION AND MAINTENANCE PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE, BUT WITHOUT PREJUDICE TO THE OWNER'S RIGHTS TO MAKE OR CONSTRUCT IMPROVEMENTS ON SAID LANDS OR TO FLATTEN THE SLOPES, PROVIDING SAID ACTIVITIES WILL NOT IMPAIR OR OTHERWISE ADVERSELY AFFECT THE HIGHWAY FACILITIES.

AN EASEMENT FOR HIGHWAY PURPOSES (HE), AS LONG AS SO USED, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE.

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

PARCEL IDENTIFICATION NUMBERS MAY NOT POINT TO ALL AREAS OF ACQUISITION, AS NOTED ON THE SCHEDULE OF LANDS & INTERESTS REQUIRED.

EXISTING ACCESS CONTROL ALONG BRAUN ROAD HAS BEEN ESTABLISHED FROM PREVIOUS PROJECT -NONE-

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: SS 82.31 (2).

CONVENTIONAL ABBREVIATIONS

ACCESS RIGHTS	AR	POINT OF INTERSECTION	PI
ACRES	AC	PROPERTY LINE	PL
AHEAD	AH	PUBLIC ROAD ACCESS POINT	PRAP
ALUMINUM	ALUM	RECORDED AS	(100')
AND OTHERS	ET AL	REEL / IMAGE	R/I
BACK	BK	REFERENCE LINE	R/L
BLOCK	BLK	REMAINING	REM
CENTERLINE	C/L	RESTRICTIVE DEVELOPMENT	RDE
CERTIFIED SURVEY MAP	CSM	EASEMENT	
CONCRETE	CONC	RIGHT	RT
COUNTY	CO	RIGHT OF WAY	R/W
COUNTY TRUNK HIGHWAY	CTH	SECTION	SEC
DISTANCE	DIST	SEPTIC VENT	SEPV
CORNER	COR	SQUARE FEET	SF
DOCUMENT NUMBER	DOC	STATE TRUNK HIGHWAY	STH
EASEMENT	EASE	STATION	STA
EXISTING	EX	TELEPHONE PEDESTAL	TP
GAS VALVE	GV	TEMPORARY LIMITED	TLE
GRID NORTH	GN	EASEMENT	
HIGHWAY EASEMENT	HE	TRANSPORTATION PROJECT	TPP
IDENTIFICATION	ID	PLAT	
LAND CONTRACT	LC	UNITED STATES HIGHWAY	USH
LEFT	LT	VOLUME	V
MONUMENT	MON		
NATIONAL GEODETIC SURVEY	NGS		
NUMBER	NO		
OUTLOT	OL		
PAGE	P		
POINT OF TANGENCY	PT		
PERMANENT LIMITED	PLE		
EASEMENT			
POINT OF BEGINNING	POB		
POINT OF CURVATURE	PC		
POINT OF COMPOUND CURVE	PCC		

CURVE DATA

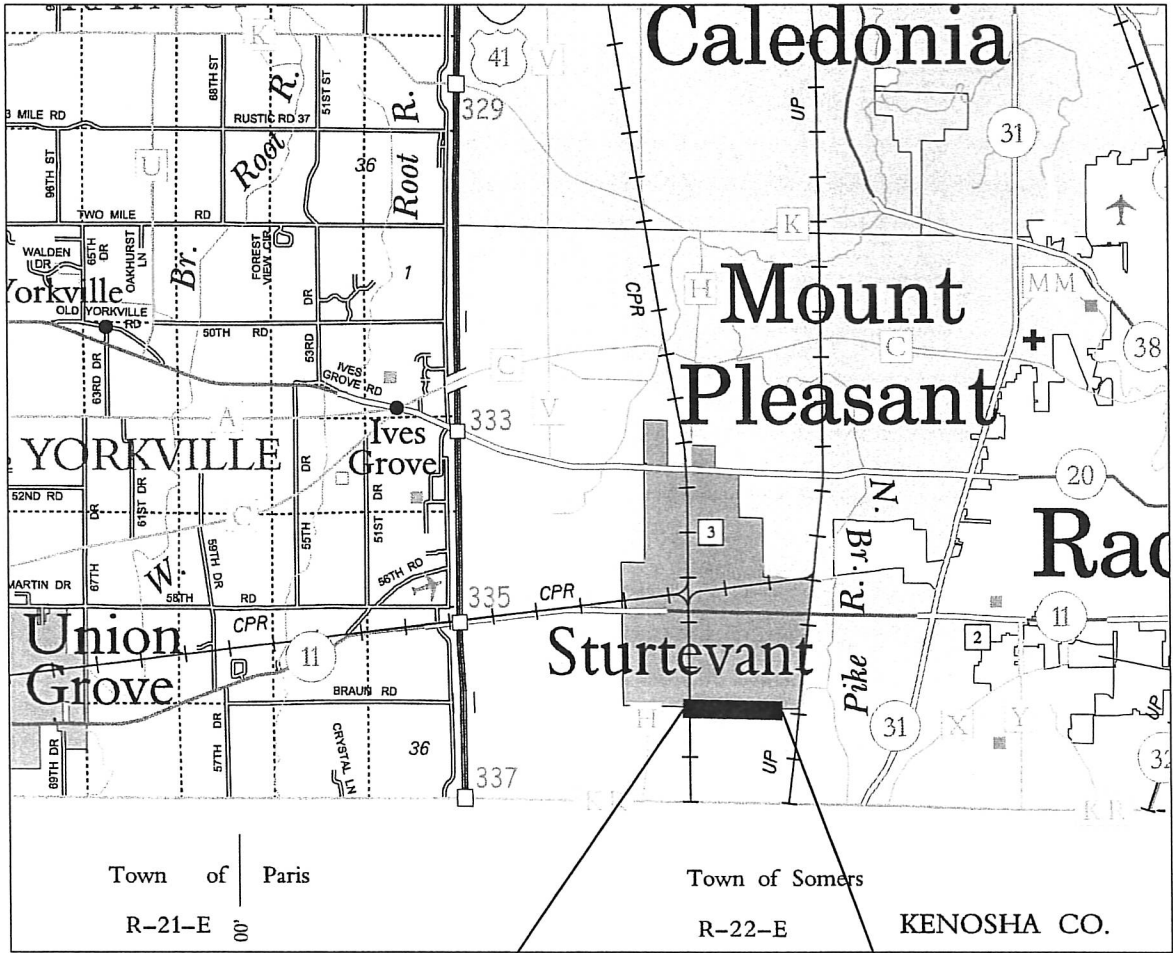
LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE	Δ/DELTA
LENGTH OF CURVE	L
TANGENT	T
DIRECTION AHEAD	DA
DIRECTION BACK	DB

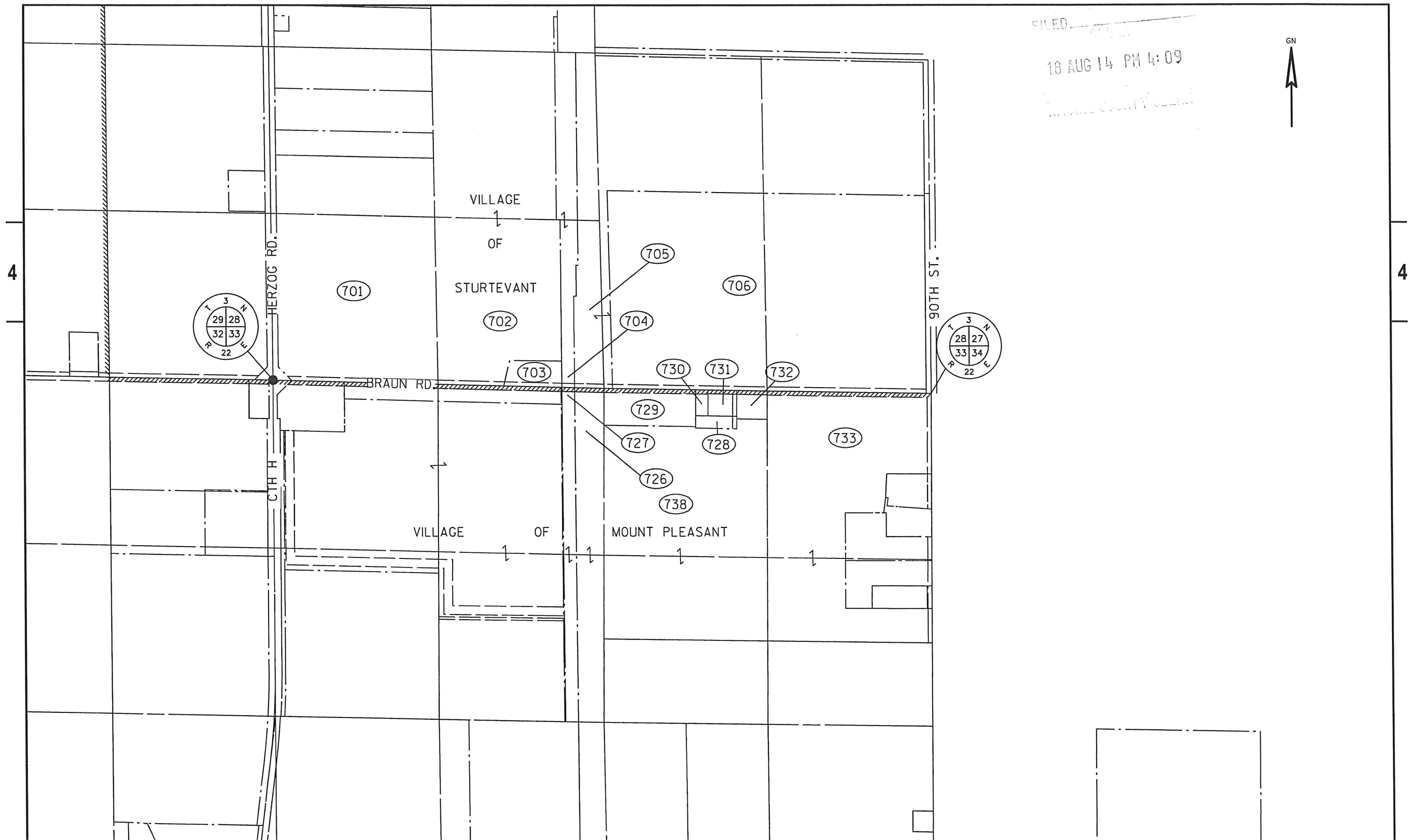
CONVENTIONAL SYMBOLS

SECTION LINE	SECTION CORNER SYMBOL	R/W MONUMENT (TO BE SET)
QUARTER LINE	SECTION CORNER MONUMENT	NON-MONUMENTED R/W POINT
SIXTEENTH LINE	GEODETIC SURVEY MONUMENT	FOUND IRON PIN (1-1/2" UNLESS NOTED)
NEW REFERENCE LINE	SIXTEENTH CORNER MONUMENT	OFF-PREMISE SIGN
NEW R/W LINE	SIGN	COMPENSABLE
EXISTING R/W OR HE LINE	ELECTRIC POLE	NON-COMPENSABLE
PROPERTY LINE	TELEPHONE POLE	
LOT, TIE & OTHER MINOR LINES	PEDESTAL (LABEL TYPE) (TV, TEL, ELEC, ETC.)	
SLOPE INTERCEPT	ACCESS RESTRICTED BY ACQUISITION	
CORPORATE LIMITS	NO ACCESS (BY STATUTORY AUTHORITY)	
UNDERGROUND FACILITY (COMMUNICATIONS, ELECTRIC, ETC.) (TYPED)	ACCESS RESTRICTED (BY PREVIOUS PROJECT OR CONTROL)	
NEW R/W (FEE OR HE) (MATCHING VARIES BY OWNER)	NO ACCESS (NEW HIGHWAY)	
TEMPORARY LIMITED EASEMENT AREA	PARCEL NUMBER (25) UTILITY NUMBER (40)	
EASEMENT AREA (PERMANENT LIMITED OR RESTRICTIVE DEVELOPMENT)	PARALLEL OFFSETS	
TRANSMISSION STRUCTURES		
BUILDING TO BE REMOVED		
BRIDGE		

CONVENTIONAL UTILITY SYMBOLS

WATER	—
GAS	- - -
TELEPHONE OVERHEAD	—
TRANSMISSION LINES	—
ELECTRIC	—
CABLE TELEVISION	—
FIBER OPTIC	—
SANITARY SEWER	—
STORM SEWER	—





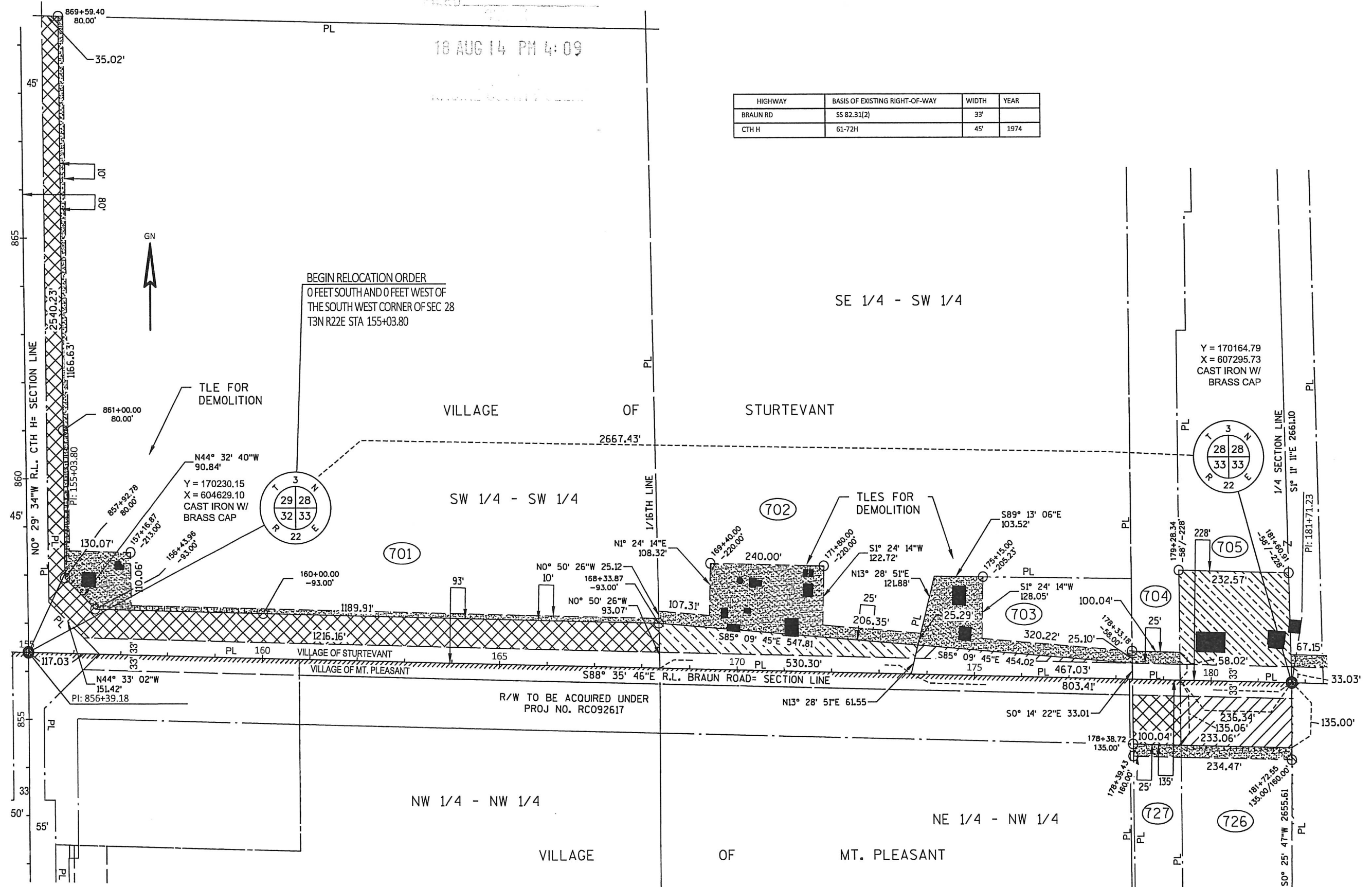
FILED
18 AUG 14 PM 4:09
COUNTY CLERK

REVISION DATE 2/06/2018 7/19/2018 _____	_____	_____	_____	DATE 1/17/2018	SCALE, FEET 0 350 700 	HWY: BRAUN ROAD	STATE R/W PROJECT NUMBER MP011718	PLAT SHEET 4.01	
_____	_____	_____	_____	GRID FACTOR N/A		COUNTY: RACINE	CONSTRUCTION PROJECT NUMBER 2704-09-70	PS&E SHEET _____	E

REQUIREMENTS

*INDICATES COMPUTED AREA

1

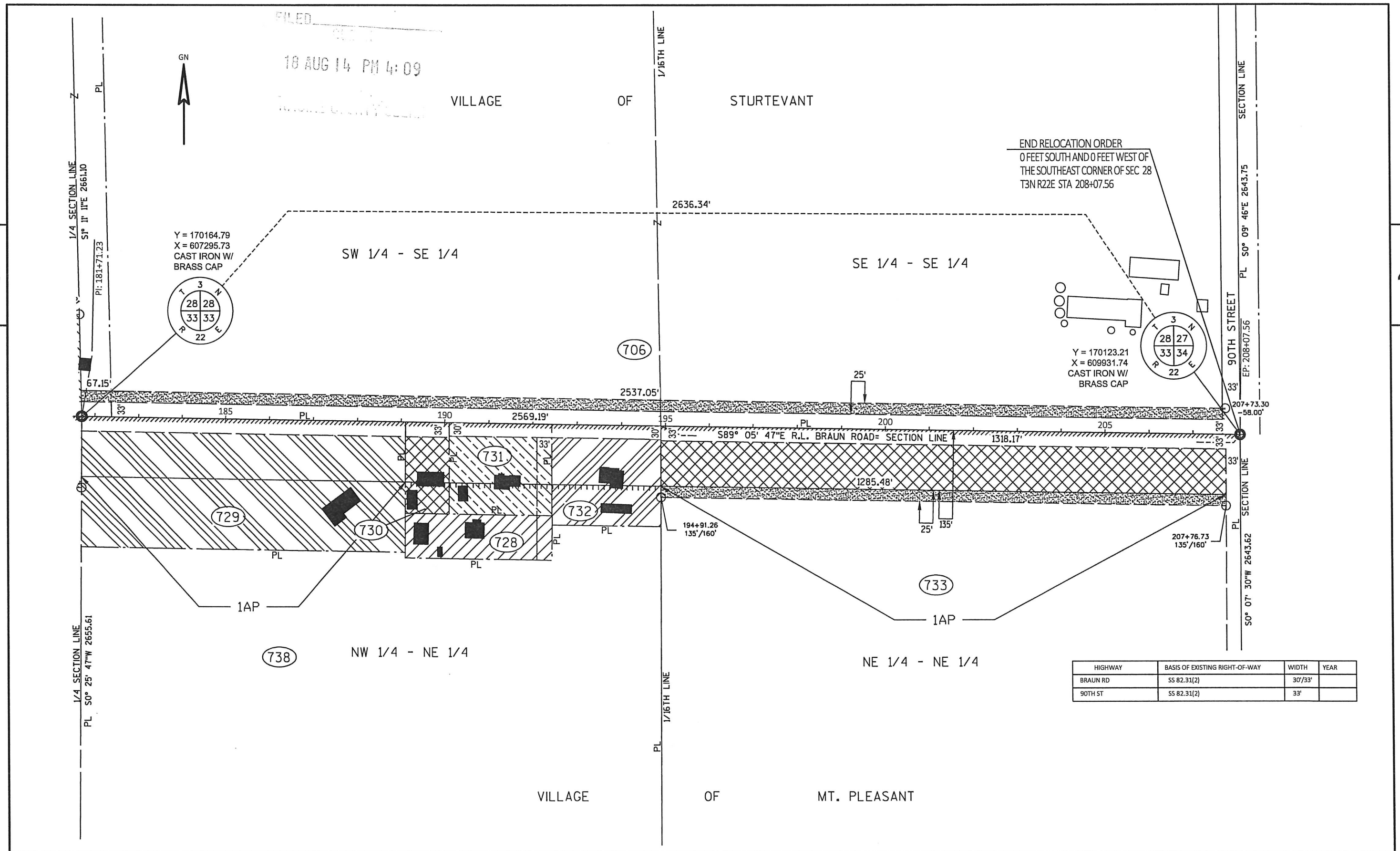


HIGHWAY	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
BRAUN RD	SS 82.31(2)	33'	
CTH H	61-72H	45'	1974

REVISION DATE 2/06/2018 7/19/2018	DATE 1/17/2018	SCALE, FEET 0 100 200	HWY: BRAUN ROAD	STATE R/W PROJECT NUMBER MP011718	PLAT SHEET 4.03
	GRID FACTOR N/A		COUNTY: RACINE	CONSTRUCTION PROJECT NUMBER 2704-09-70	PS&E SHEET

4

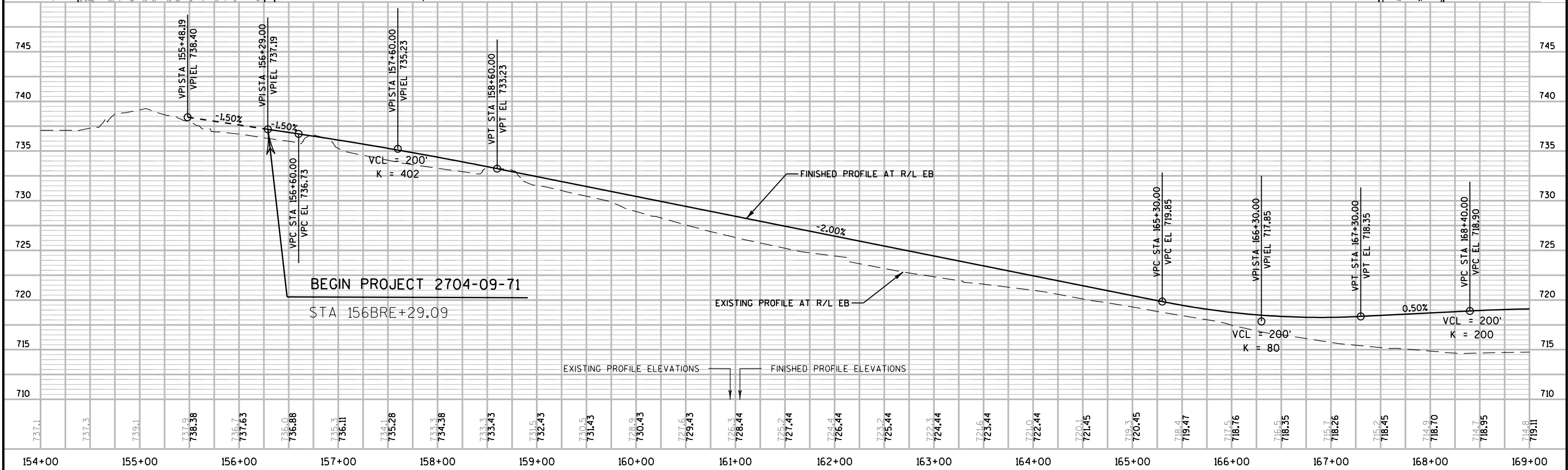
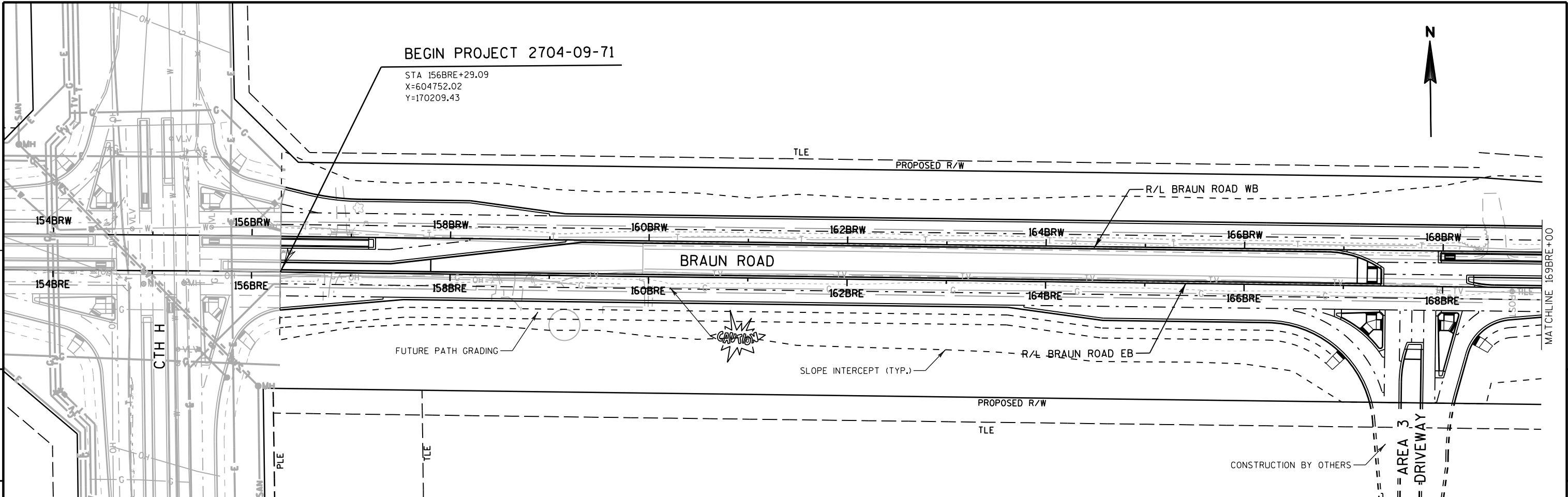
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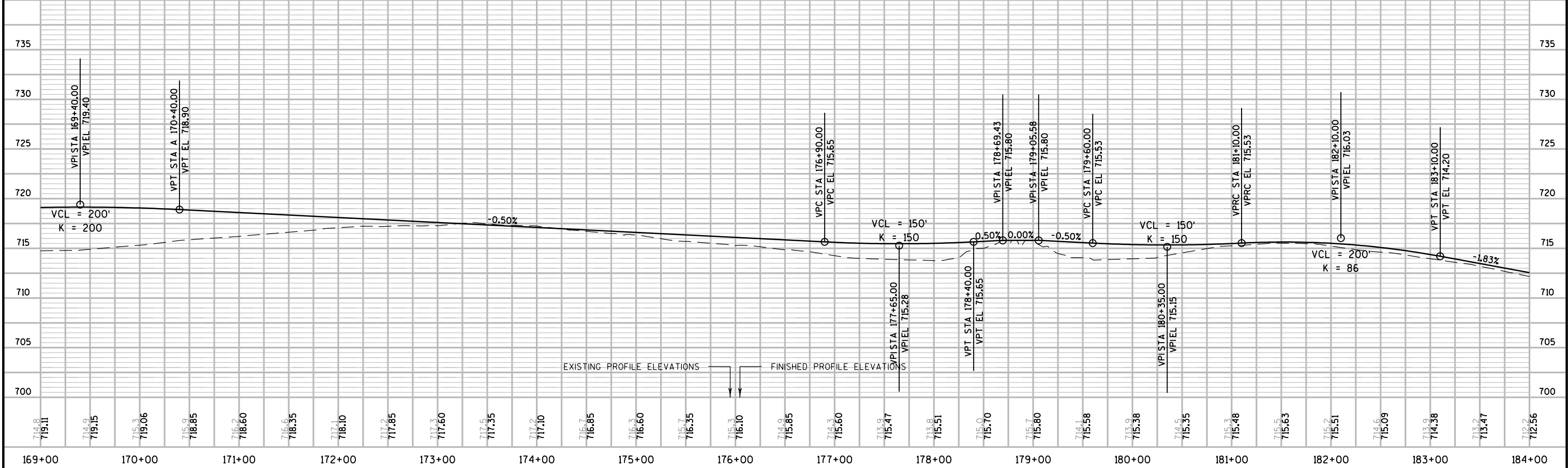
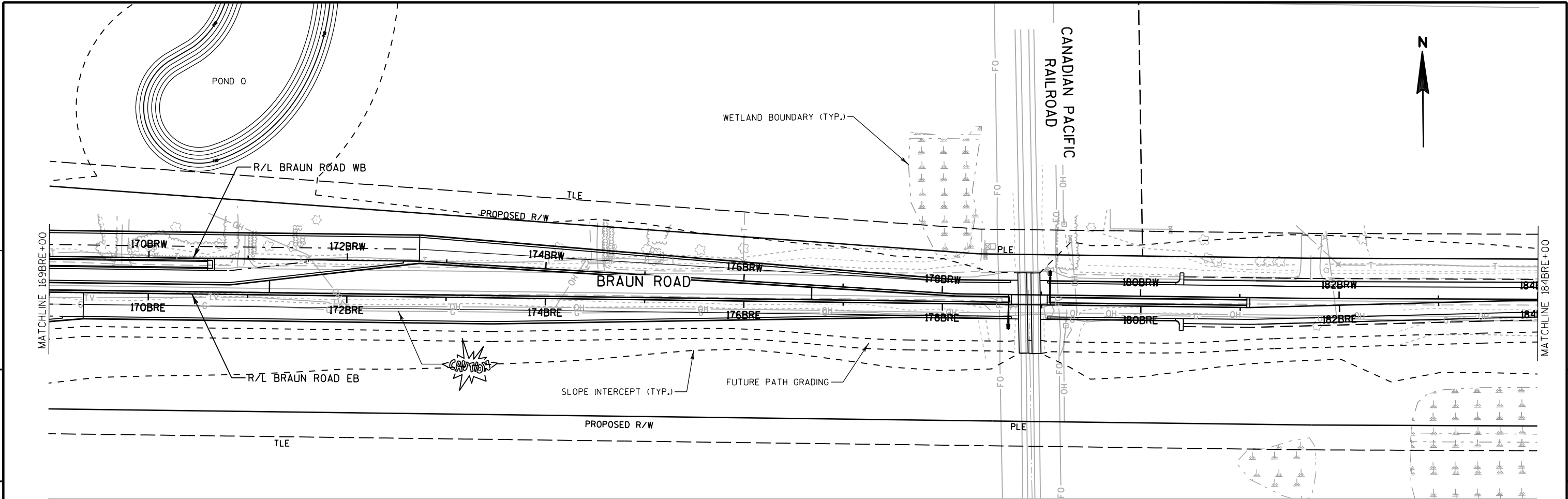
HIGHWAY	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
BRAUN RD	SS 82.31(2)	30'/33'	
90TH ST	SS 82.31(2)	33'	

REVISION DATE 2/06/2018 7/19/2018	DATE 1/17/2018	SCALE, FEET 0 100 200	HWY: BRAUN ROAD	STATE R/W PROJECT NUMBER MP011718	PLAT SHEET 4.04
	GRID FACTOR N/A		COUNTY: RACINE	CONSTRUCTION PROJECT NUMBER 2704-09-70	PS&E SHEET
FILE NAME: BRAUN EAST DETAIL SHEETS.DWG LAYOUT NAME - DETAIL 4.04 1 IN 200 FT	PLOT DATE: 7/26/2018 1:49 PM	PLOT BY:	PLOT NAME:	PLTSCSCALE: ###H#B#B#H#	WISDOT/CADD SHEET 75

E

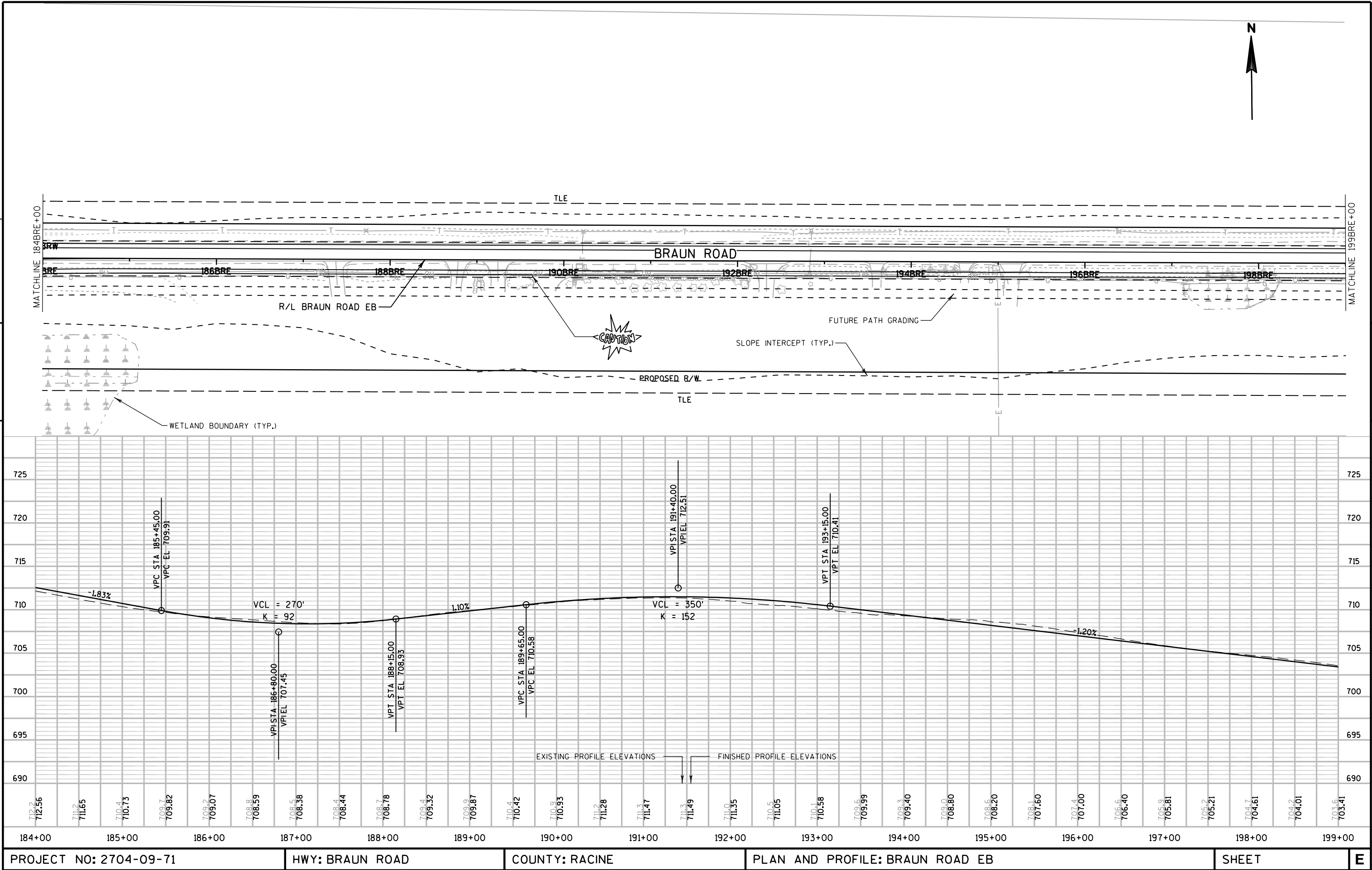


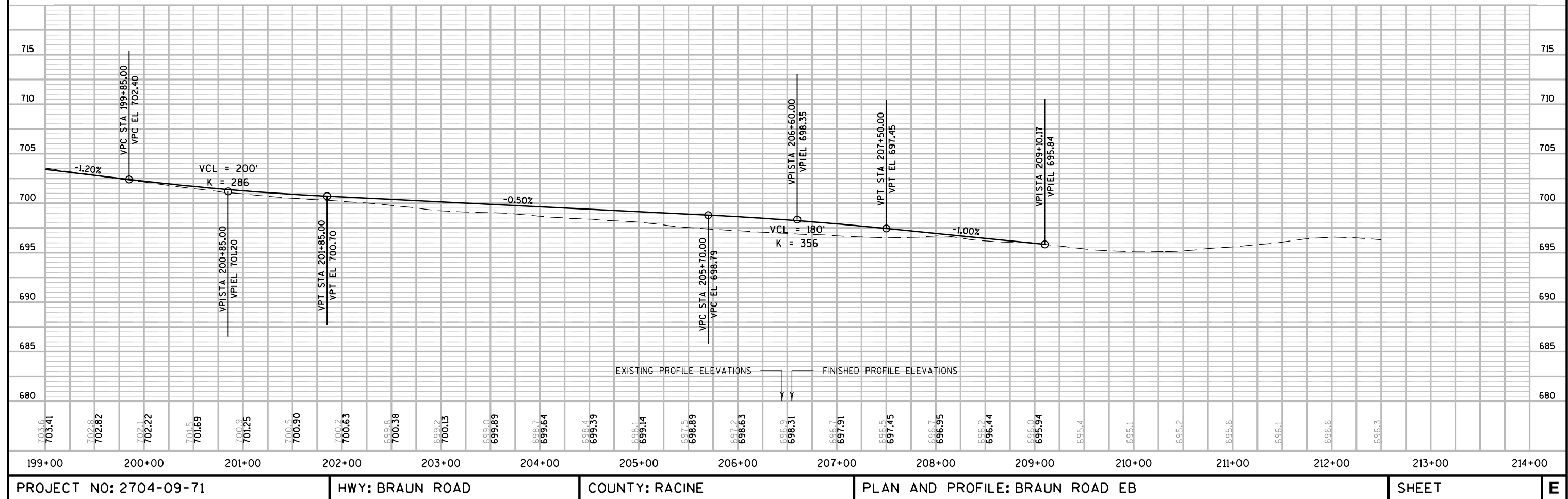
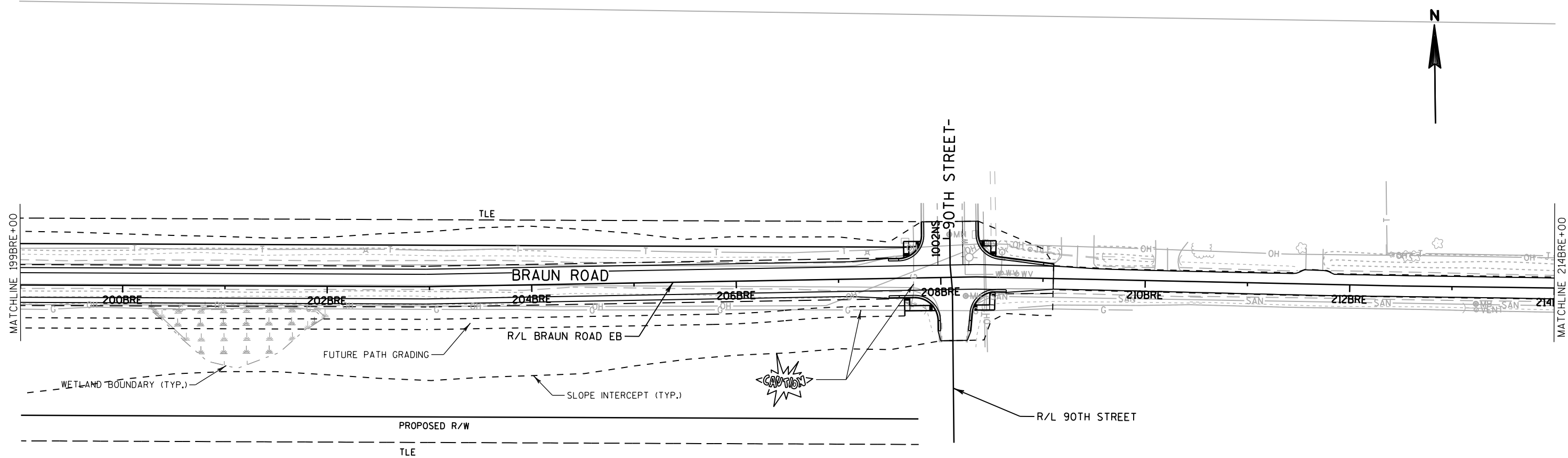
PROJECT NO: 2704-09-71	HWY: BRAUN ROAD	COUNTY: RACINE	PLAN AND PROFILE: BRAUN ROAD EB	SHEET	E
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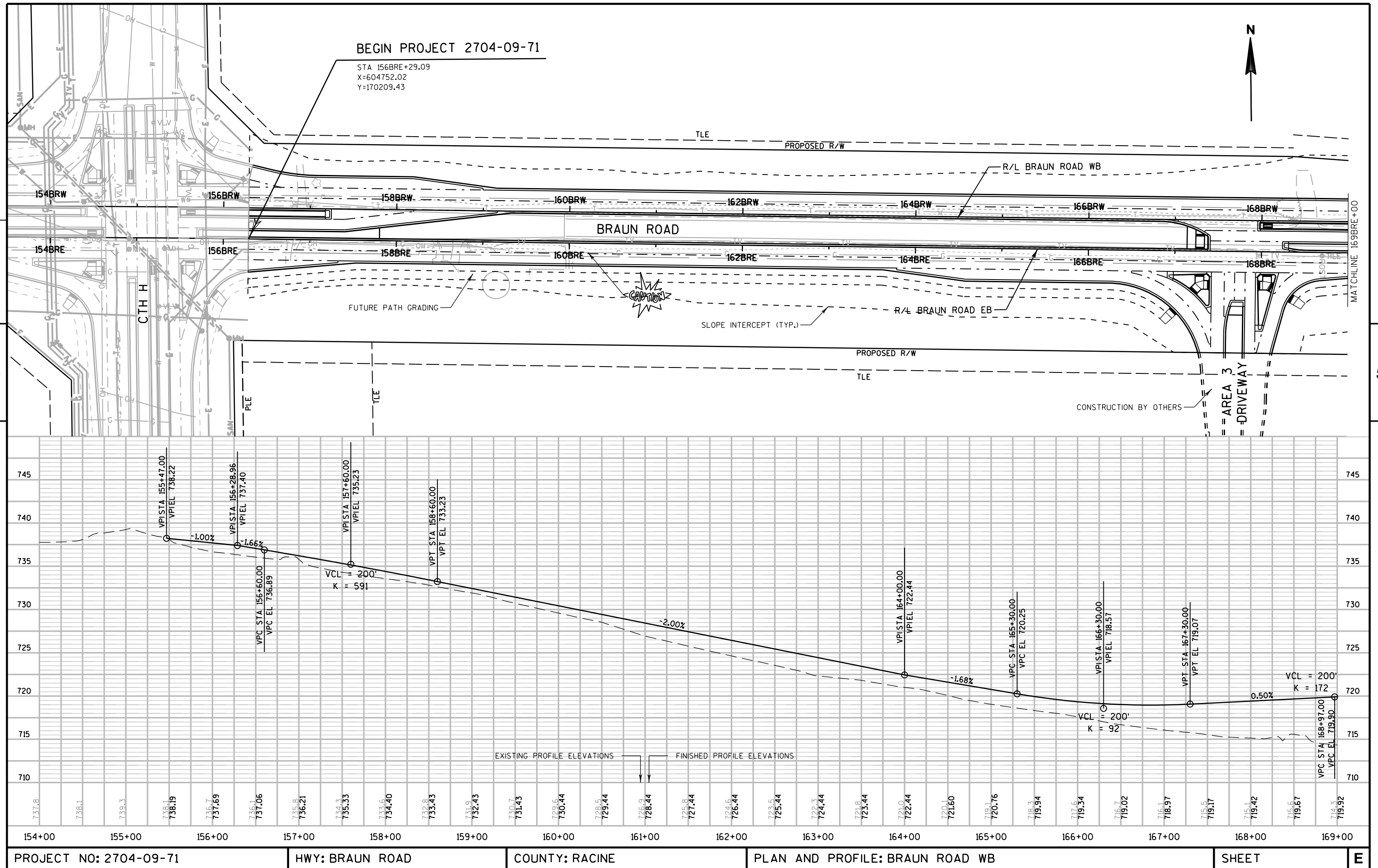


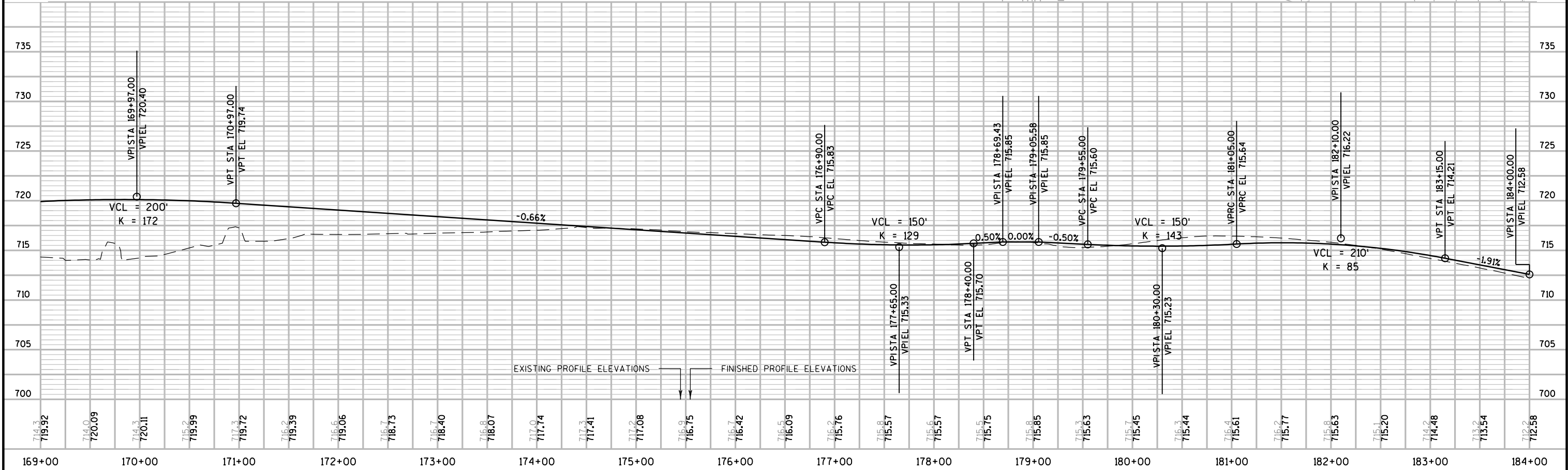
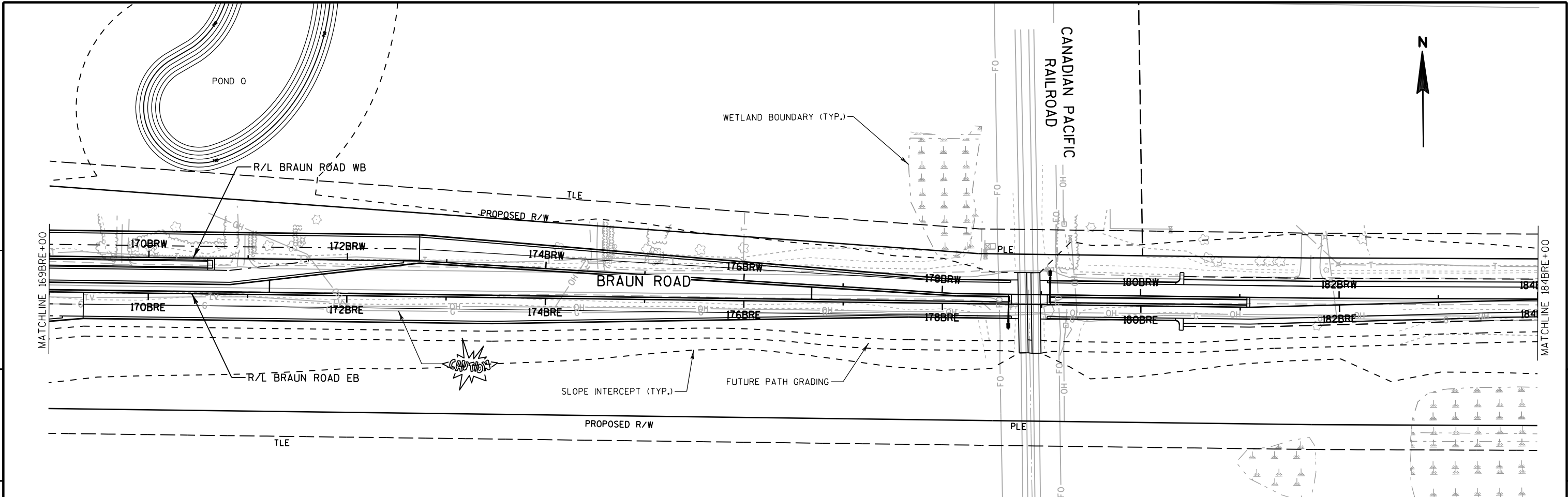
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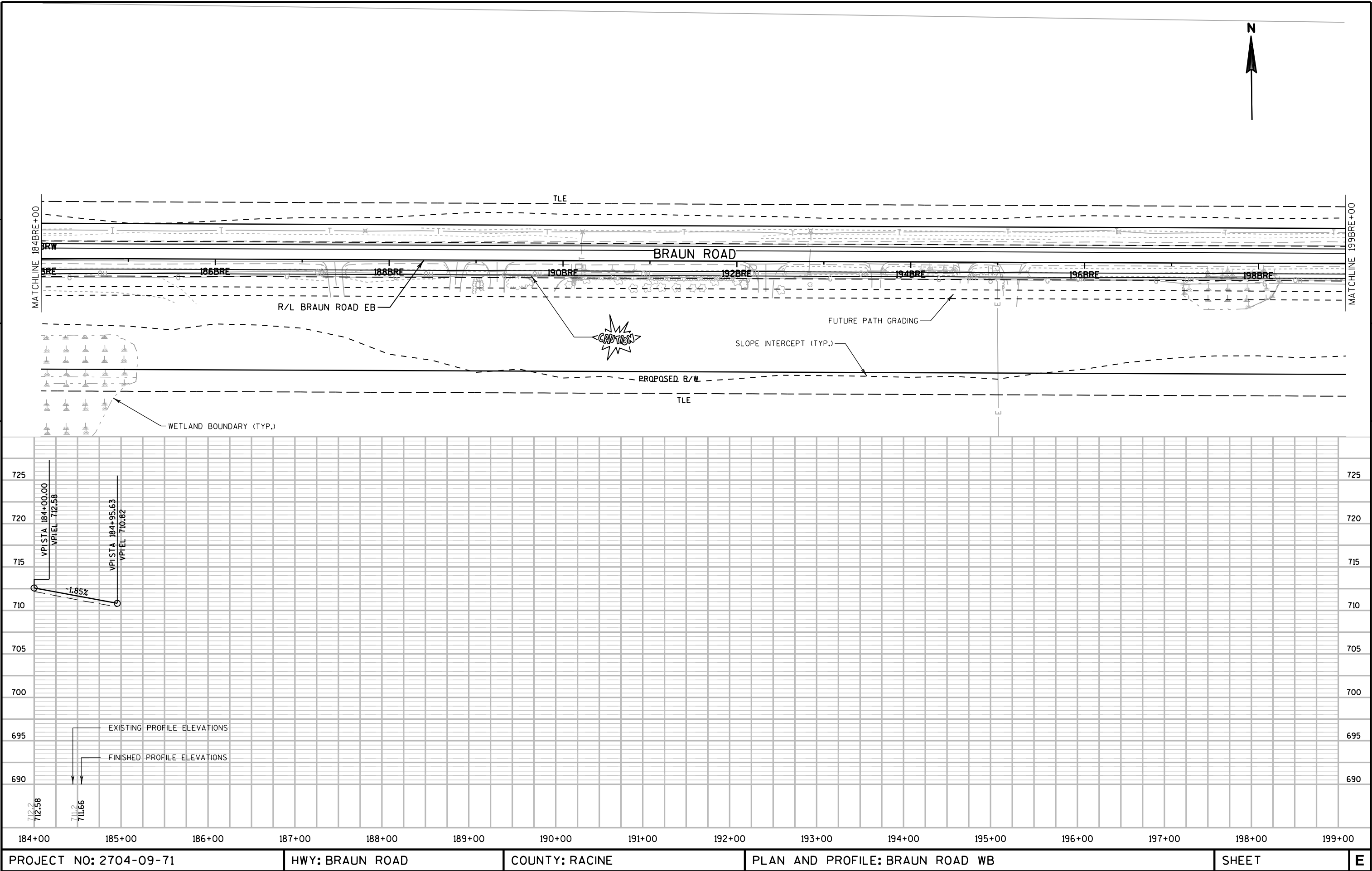








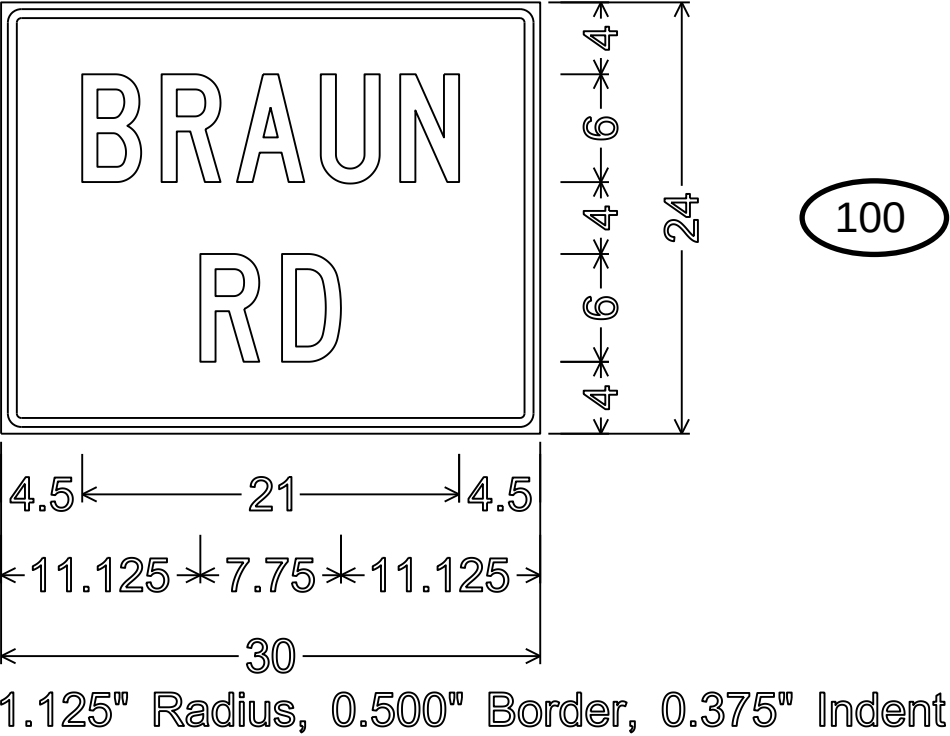
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5

NOTES

- 1. All Signs Type II - Type F Reflective
- 2. Color:
 - Background - Orange
 - Message - Black
- 3. Message Series - C



7

7

PROJECT ID 2704-09-71
DIVISION 1 - BRAUN ROAD

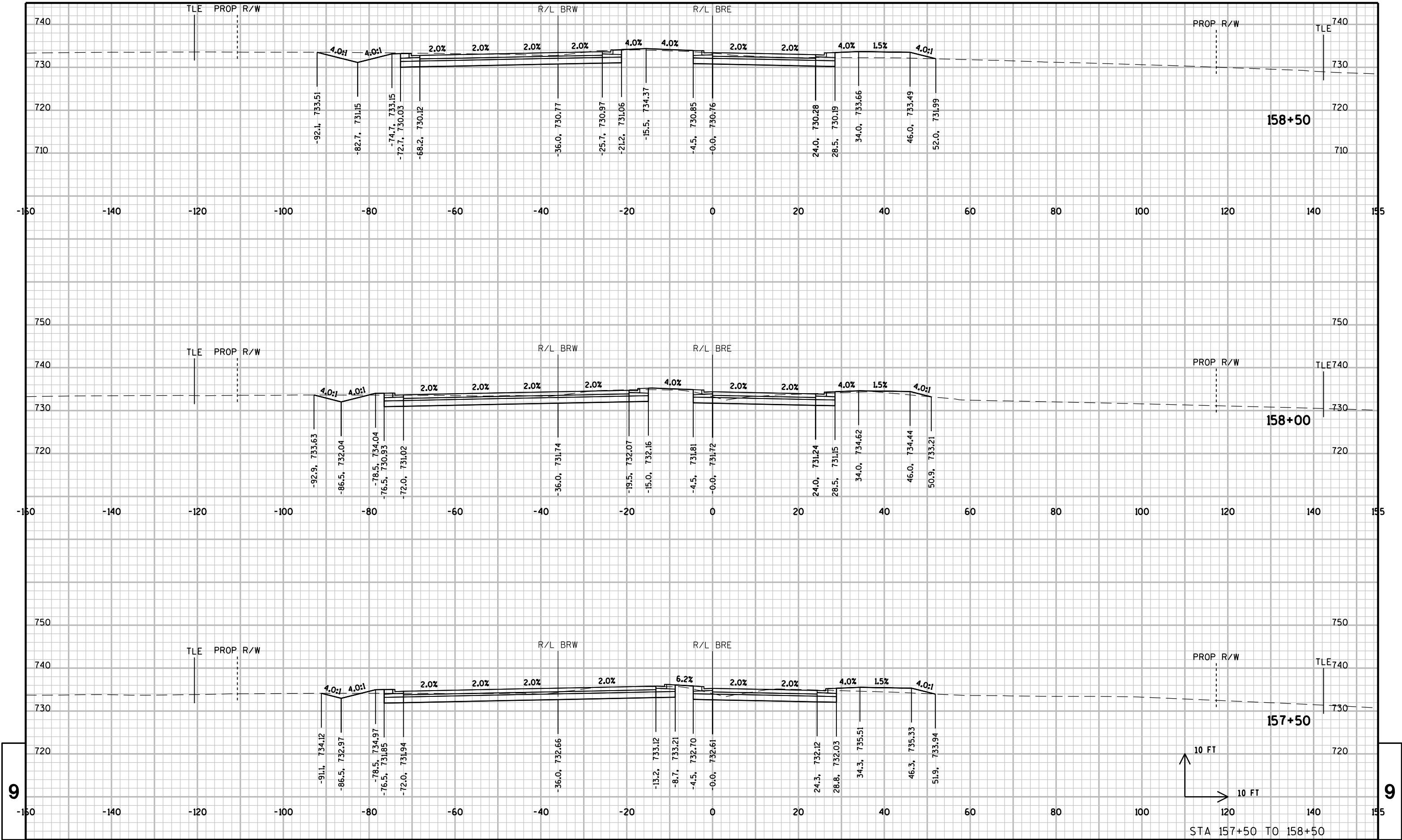
STATION	Real Station	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate
			Cut	Fill	Cut	Fill	Cut	Fill	
156+29	AH	15629.15	0.00	288	59	0	0	0	0
156+50		15650.00	20.85	289	38	222	37	222	185
157+00		15700.00	50.00	272	20	520	54	742	651
157+50		15750.00	50.00	219	27	455	44	1197	1063
158+00		15800.00	50.00	217	15	404	39	1601	1428
158+50		15850.00	50.00	225	35	409	47	2011	1791
159+00		15900.00	50.00	187	52	382	81	2392	2092
159+50		15950.00	50.00	179	53	339	97	2731	2333
160+00		16000.00	50.00	157	85	311	128	3042	2516
160+50		16050.00	50.00	113	146	250	213	3292	2553
161+00		16100.00	50.00	72	135	171	260	3464	2464
161+50		16150.00	50.00	61	121	124	237	3587	2351
162+00		16200.00	50.00	50	119	104	222	3691	2233
162+50		16250.00	50.00	47	116	91	217	3781	2106
163+00		16300.00	50.00	55	106	95	205	3877	1996
163+50		16350.00	50.00	89	88	134	179	4010	1951
164+00		16400.00	50.00	126	76	199	152	4209	1997
164+50		16450.00	50.00	142	76	248	141	4457	2104
165+00		16500.00	50.00	146	74	267	139	4724	2232
165+50		16550.00	50.00	127	84	253	146	4976	2338
166+00		16600.00	50.00	85	102	196	172	5173	2363
166+50		16650.00	50.00	34	145	110	229	5283	2244
167+00		16700.00	50.00	33	145	62	269	5345	2038
167+50		16750.00	50.00	31	196	60	315	5405	1782
168+00		16800.00	50.00	18	311	46	469	5451	1359
168+50		16850.00	50.00	49	433	62	689	5514	732
169+00		16900.00	50.00	42	518	84	881	5598	-64
169+50		16950.00	50.00	45	544	80	983	5678	-967
170+00		17000.00	50.00	126	350	159	827	5837	-1636
170+50		17050.00	50.00	126	205	233	513	6070	-1915
171+00		17100.00	50.00	153	103	258	284	6329	-1942
171+50		17150.00	50.00	177	88	306	177	6634	-1812
172+00		17200.00	50.00	136	79	290	154	6925	-1676
172+50		17250.00	50.00	158	59	272	127	7197	-1531
173+00		17300.00	50.00	182	41	315	92	7512	-1308
173+50		17350.00	50.00	207	20	361	57	7872	-1005
174+00		17400.00	50.00	216	12	391	30	8264	-643
174+50		17450.00	50.00	238	4	420	15	8684	-238
175+00		17500.00	50.00	156	20	365	22	9049	104
175+50		17550.00	50.00	107	51	244	66	9292	282
176+00		17600.00	50.00	101	63	193	106	9485	369
176+50		17650.00	50.00	96	90	182	142	9667	408
177+00		17700.00	50.00	89	129	171	203	9838	377

PROJECT ID 2704-09-71
DIVISION 1 - BRAUN ROAD

STATION	Real Station	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate
			Cut	Fill	Cut	Fill	Cut	Fill	
177+50	17750.00	50.00	73	184	150	289	9989	9751	238
178+00	17800.00	50.00	70	217	133	372	10121	10123	-2
178+50	17850.00	50.00	81	147	140	338	10261	10460	-199
179+00	17900.00	50.00	92	7	161	143	10422	10603	-182
179+29	17929.06	29.06	119	120	114	68	10535	10671	-136
179+50	17950.00	20.94	91	294	81	160	10617	10832	-215
180+00	18000.00	50.00	112	225	188	480	10805	11312	-508
180+50	18050.00	50.00	184	104	274	305	11079	11617	-538
181+00	18100.00	50.00	239	56	392	148	11471	11765	-294
181+50	18150.00	50.00	266	48	468	96	11939	11861	78
182+00	18200.00	50.00	261	40	488	82	12428	11942	485
182+50	18250.00	50.00	325	7	543	44	12970	11986	984
183+00	18300.00	50.00	285	0	564	6	13534	11992	1542
183+50	18350.00	50.00	321	0	561	0	14095	11992	2103
184+00	18400.00	50.00	326	0	599	0	14694	11993	2702
184+50	18450.00	50.00	313	0	592	0	15286	11993	3293
185+00	18500.00	50.00	291	12	559	11	15846	12004	3842
185+50	18550.00	50.00	234	30	486	39	16331	12043	4288
186+00	18600.00	50.00	119	59	327	83	16658	12126	4532
186+50	18650.00	50.00	142	51	242	102	16900	12228	4672
187+00	18700.00	50.00	164	35	284	80	17183	12307	4876
187+50	18750.00	50.00	194	20	331	51	17515	12358	5156
188+00	18800.00	50.00	236	41	397	56	17912	12415	5497
188+50	18850.00	50.00	402	22	590	58	18502	12473	6029
189+00	18900.00	50.00	482	6	818	26	19320	12499	6822
189+50	18950.00	50.00	669	0	1066	5	20386	12504	7882
190+00	19000.00	50.00	731	0	1296	0	21681	12504	9177
190+50	19050.00	50.00	675	0	1302	0	22983	12504	10479
191+00	19100.00	50.00	766	0	1334	0	24317	12504	11813
191+50	19150.00	50.00	736	4	1391	4	25707	12508	13200
192+00	19200.00	50.00	606	20	1243	22	26950	12530	14420
192+50	19250.00	50.00	524	40	1046	55	27997	12585	15411
193+00	19300.00	50.00	528	32	974	66	28971	12651	16319
193+50	19350.00	50.00	573	14	1020	42	29990	12693	17297
194+00	19400.00	50.00	604	10	1089	22	31080	12716	18364
194+50	19450.00	50.00	624	1	1136	11	32216	12727	19490
195+00	19500.00	50.00	697	0	1223	1	33439	12728	20711
195+50	19550.00	50.00	617	0	1216	0	34655	12728	21927
196+00	19600.00	50.00	539	8	1070	7	35725	12735	22990
196+50	19650.00	50.00	409	34	878	39	36604	12774	23830
197+00	19700.00	50.00	325	60	680	87	37283	12861	24422
197+50	19750.00	50.00	311	57	588	108	37872	12970	24902

PROJECT ID 2704-09-71
DIVISION 1 - BRAUN ROAD

STATION	Real Station	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate
			Cut	Fill	Cut	Fill	Cut	Fill	
198+00	19800.00	50.00	326	39	590	89	38462	13058	25403
198+50	19850.00	50.00	392	12	665	48	39126	13106	26020
199+00	19900.00	50.00	389	3	723	14	39850	13120	26730
199+50	19950.00	50.00	311	14	648	16	40498	13136	27362
200+00	20000.00	50.00	221	46	492	56	40990	13192	27799
200+50	20050.00	50.00	170	68	362	105	41352	13297	28056
201+00	20100.00	50.00	161	59	306	117	41659	13414	28245
201+50	20150.00	50.00	161	45	298	96	41957	13510	28447
202+00	20200.00	50.00	189	31	324	71	42280	13580	28700
202+50	20250.00	50.00	249	2	405	30	42686	13611	29075
203+00	20300.00	50.00	301	0	510	2	43195	13613	29583
203+50	20350.00	50.00	301	0	558	0	43753	13613	30140
204+00	20400.00	50.00	285	0	542	0	44296	13613	30683
204+50	20450.00	50.00	231	4	477	3	44773	13616	31157
205+00	20500.00	50.00	141	17	344	19	45117	13635	31482
205+50	20550.00	50.00	66	62	191	73	45308	13709	31599
206+00	20600.00	50.00	50	84	107	135	45415	13844	31571
206+50	20650.00	50.00	54	81	96	152	45511	13996	31515
207+00	20700.00	50.00	64	47	109	118	45621	14114	31507
207+50	20750.00	50.00	78	84	132	121	45752	14234	31518
208+00	20800.00	50.00	57	0	126	77	45878	14312	31566
208+50	20850.00	50.00	56	0	105	0	45983	14312	31671
209+00	20900.00	50.00	96	14	141	13	46123	14324	31799
209+10	BK 20910.10	10.10	93	13	35	5	46159	14330	31829
					46,159	14,330			



PROJECT NO: 2704-09-71

HWY: BRAUN ROAD

COUNTY: RACINE

CROSS SECTIONS: BRAUN ROAD

SHEET

E

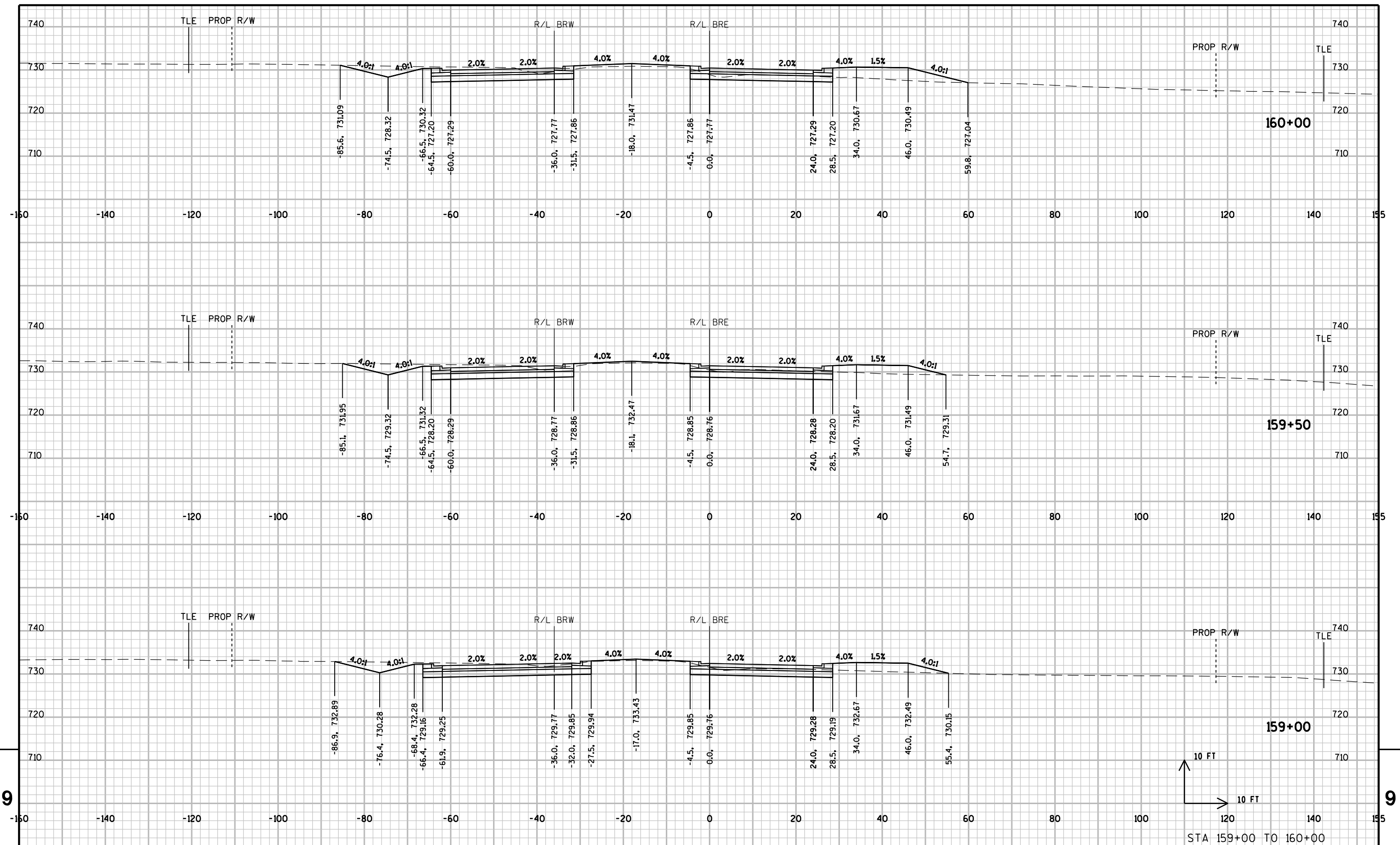
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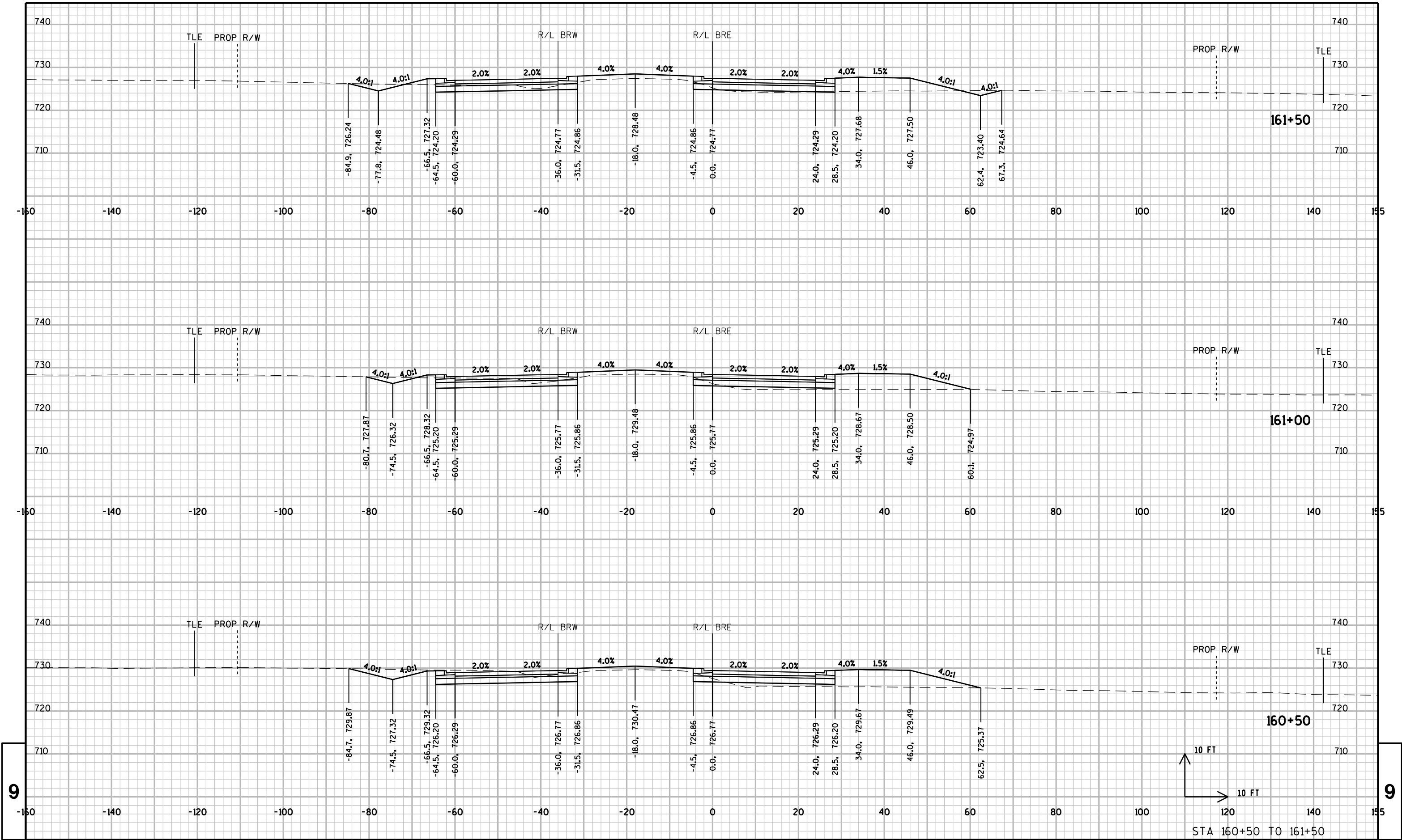
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PLOT NAME :

PLOT SCALE : 20:1

WISDOT/CADDs SHEET 21





PROJECT NO: 2704-09-71

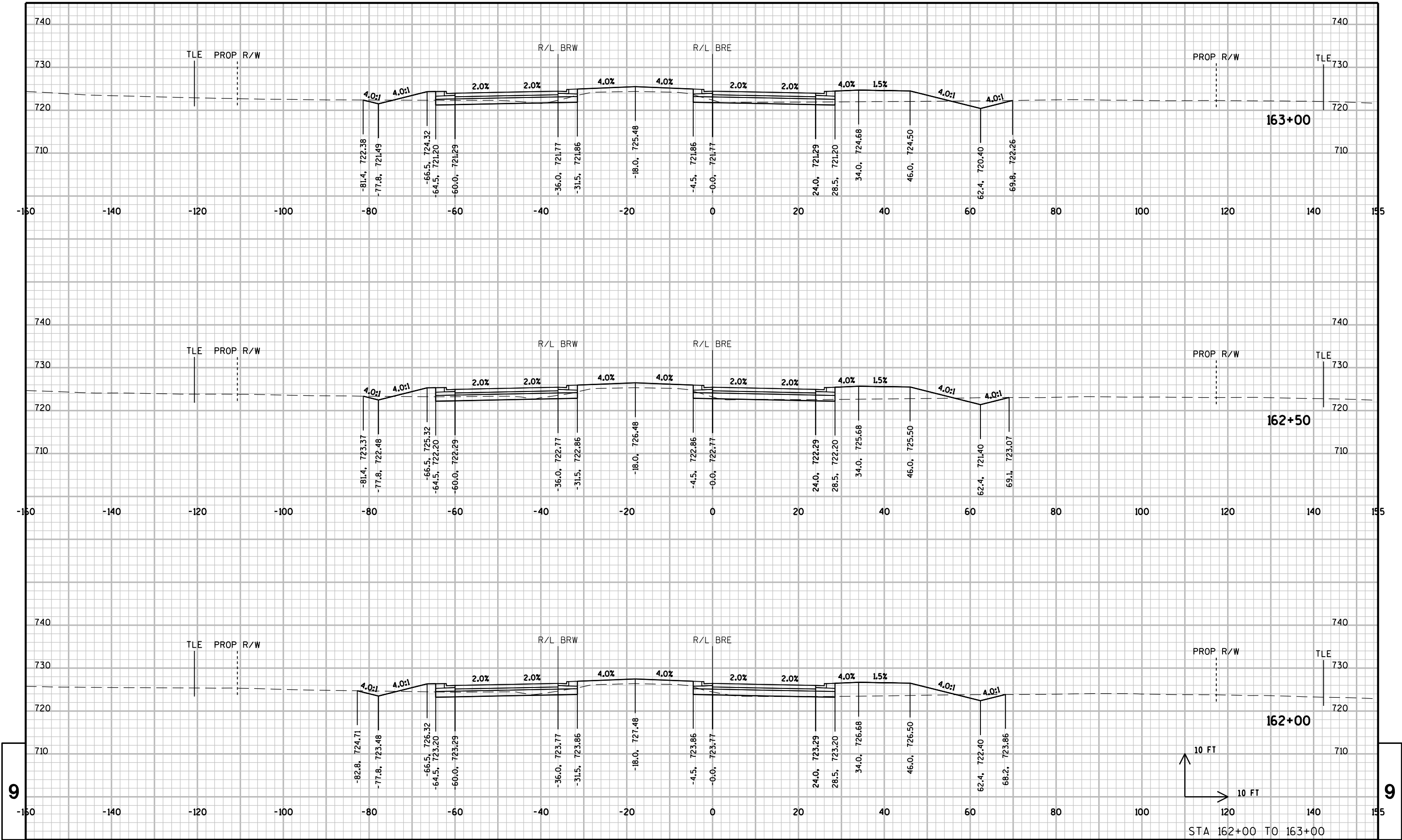
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COUNTY: RACINE

CROSS SECTIONS: BRAUN ROAD

SHEET

E



PROJECT NO: 2704-09-71

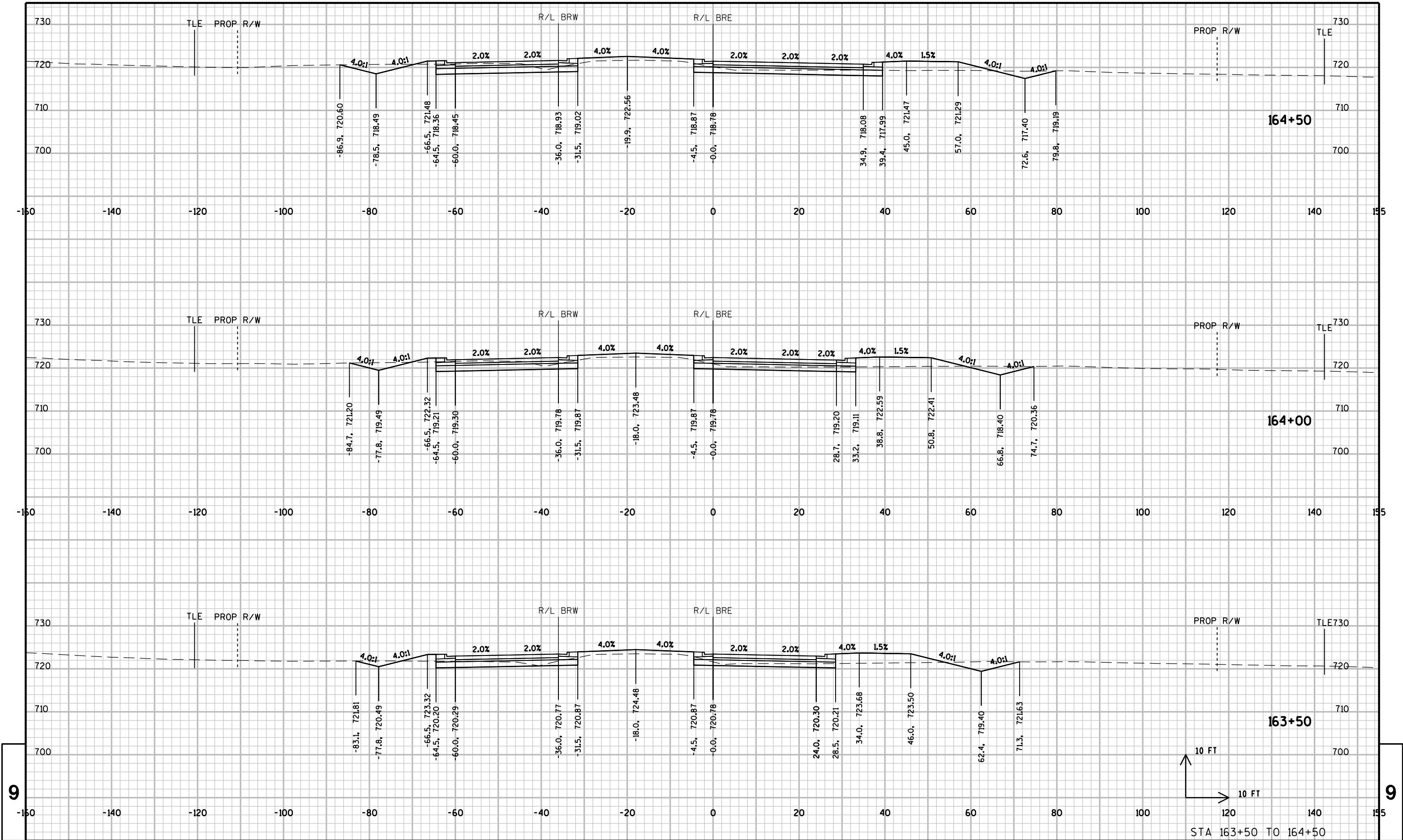
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COUNTY: RACINE

CROSS SECTIONS: BRAUN ROAD

SHEET

E



PROJECT NO: 2704-09-71

HWY: BRAUN ROAD

COUNTY: RACINE

CROSS SECTIONS: BRAUN ROAD

SHEET

E

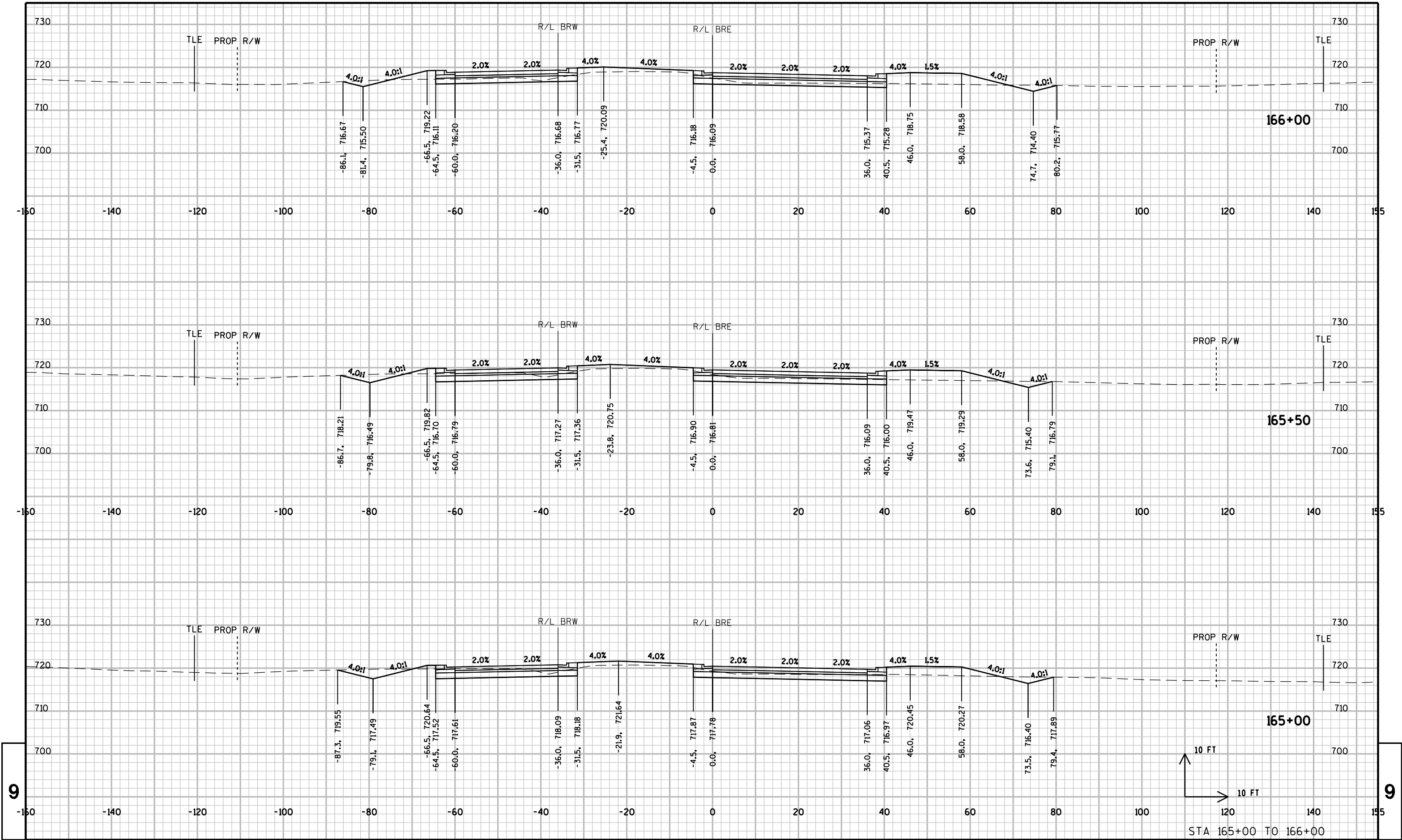
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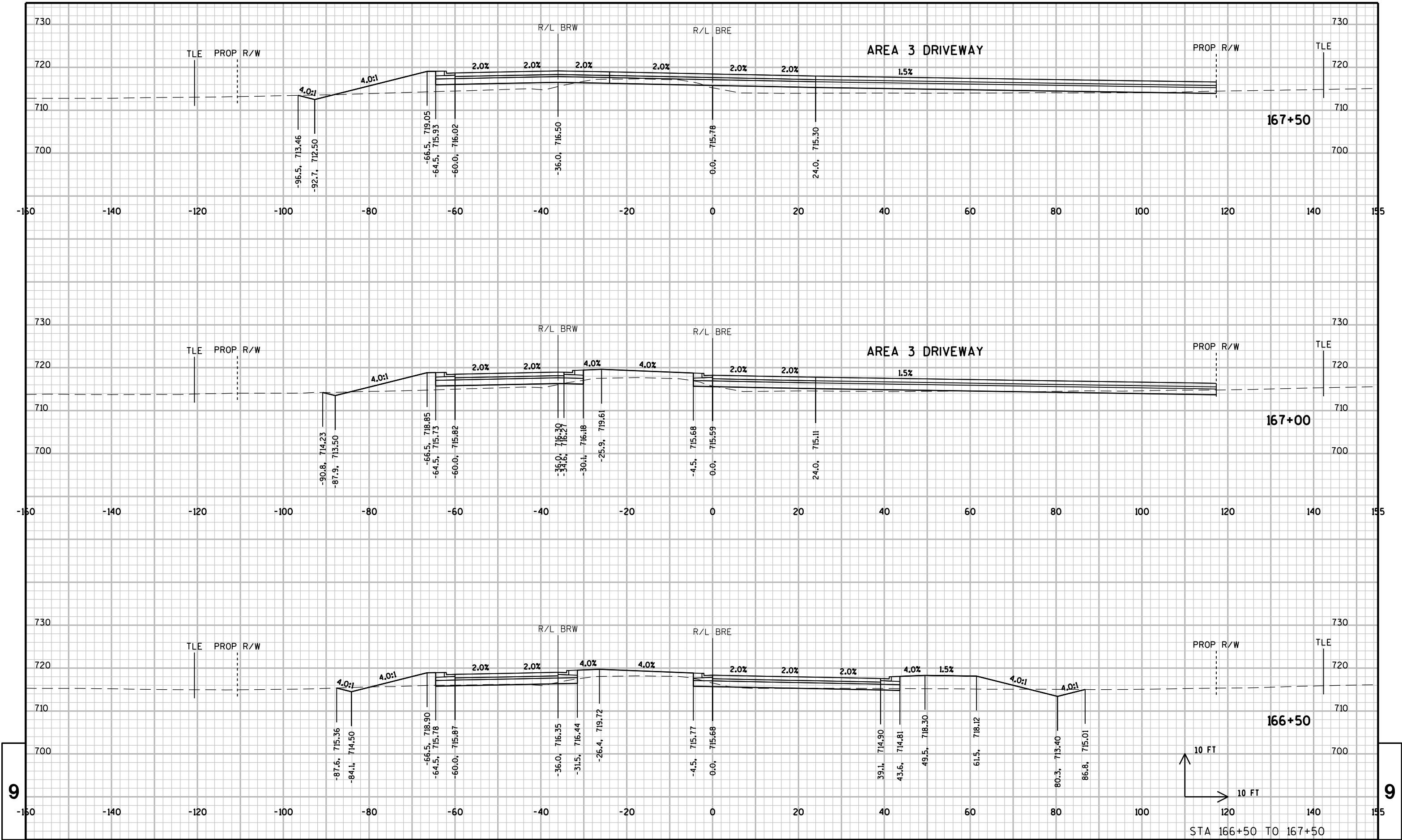
PLOT BY : jdepies

PLOT NAME :

PLOT SCALE : 20:1

WISDOT/CADDs SHEET 21





PROJECT NO: 2704-09-71

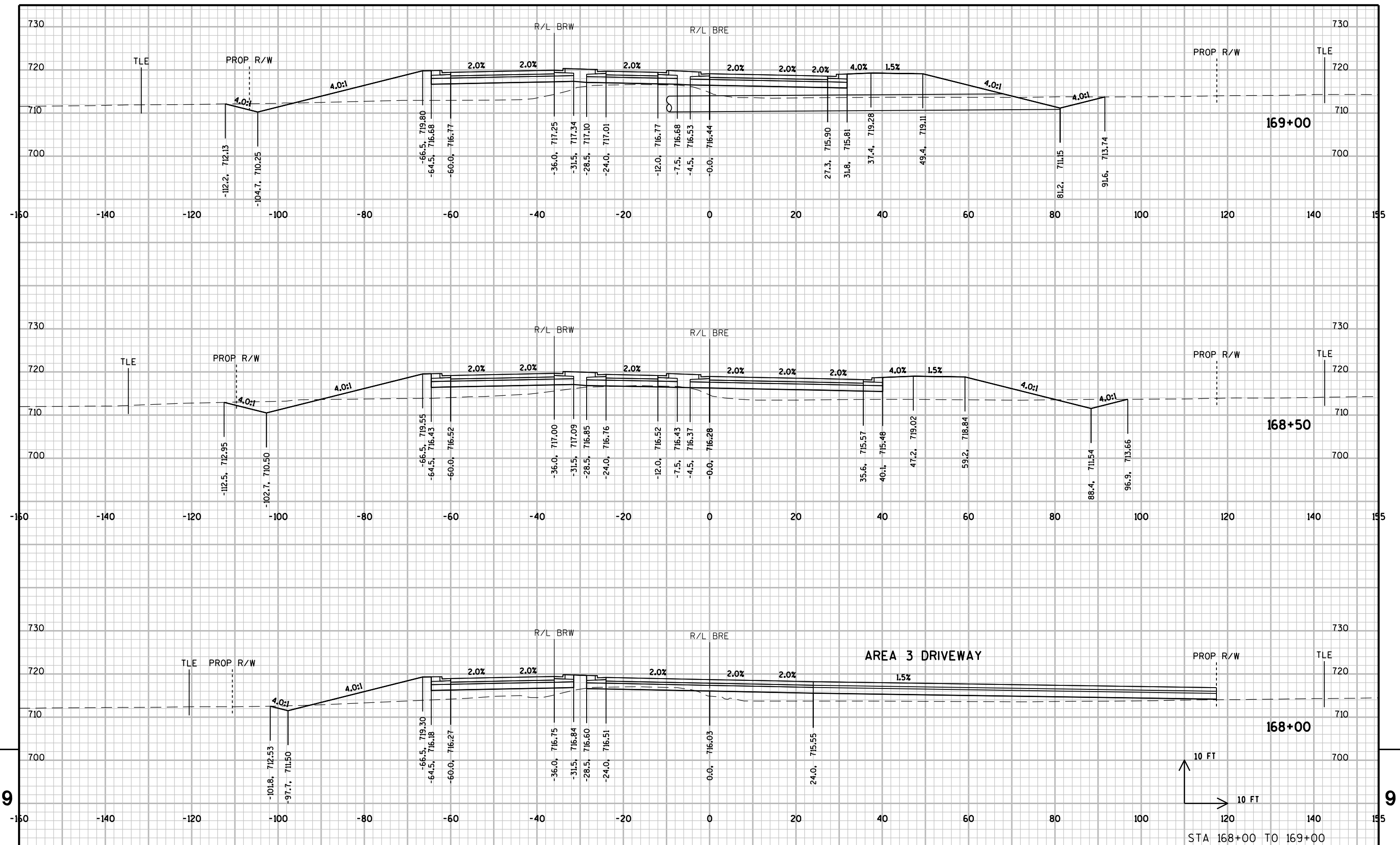
HWY: BRAUN ROAD

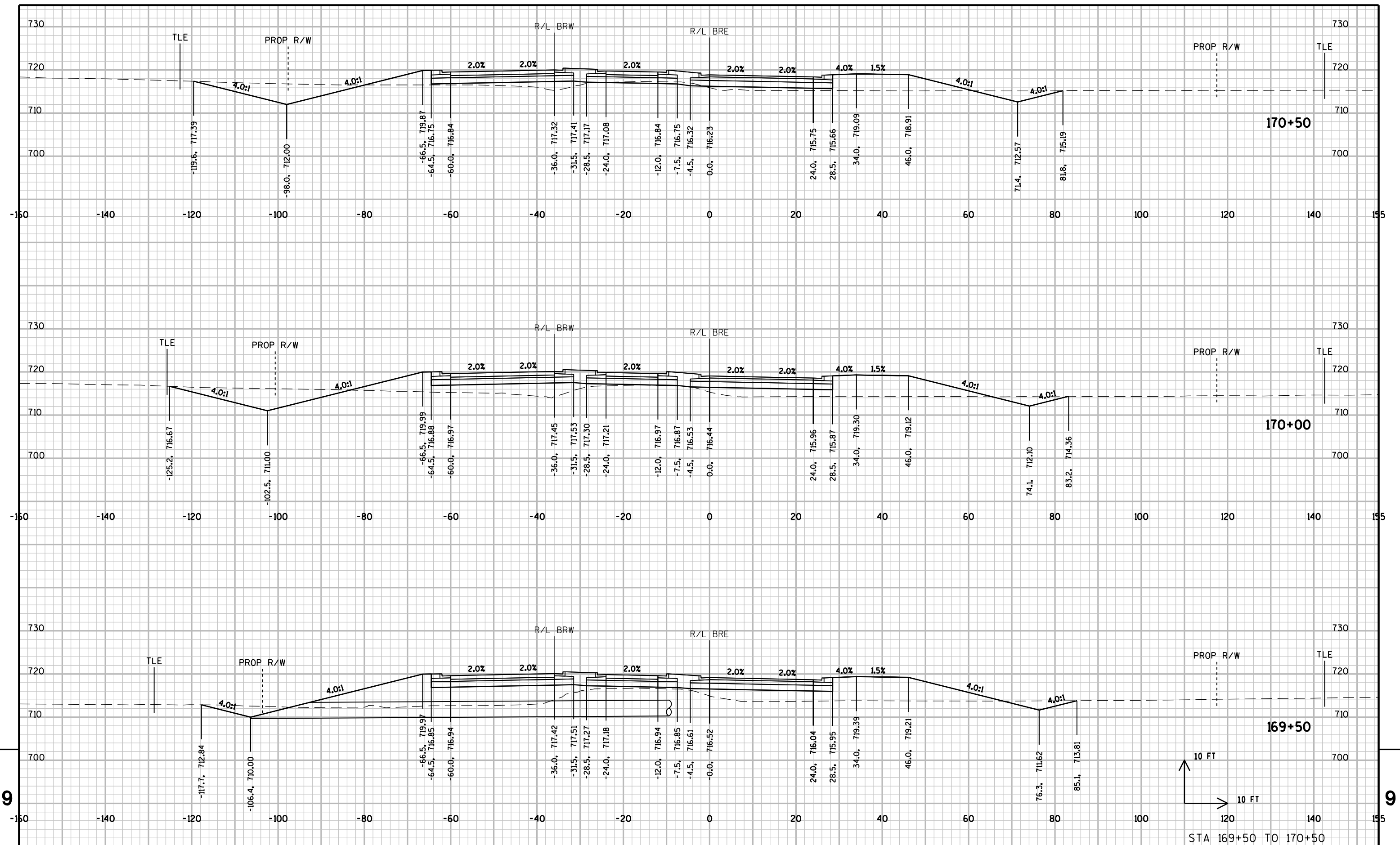
COUNTY: RACINE

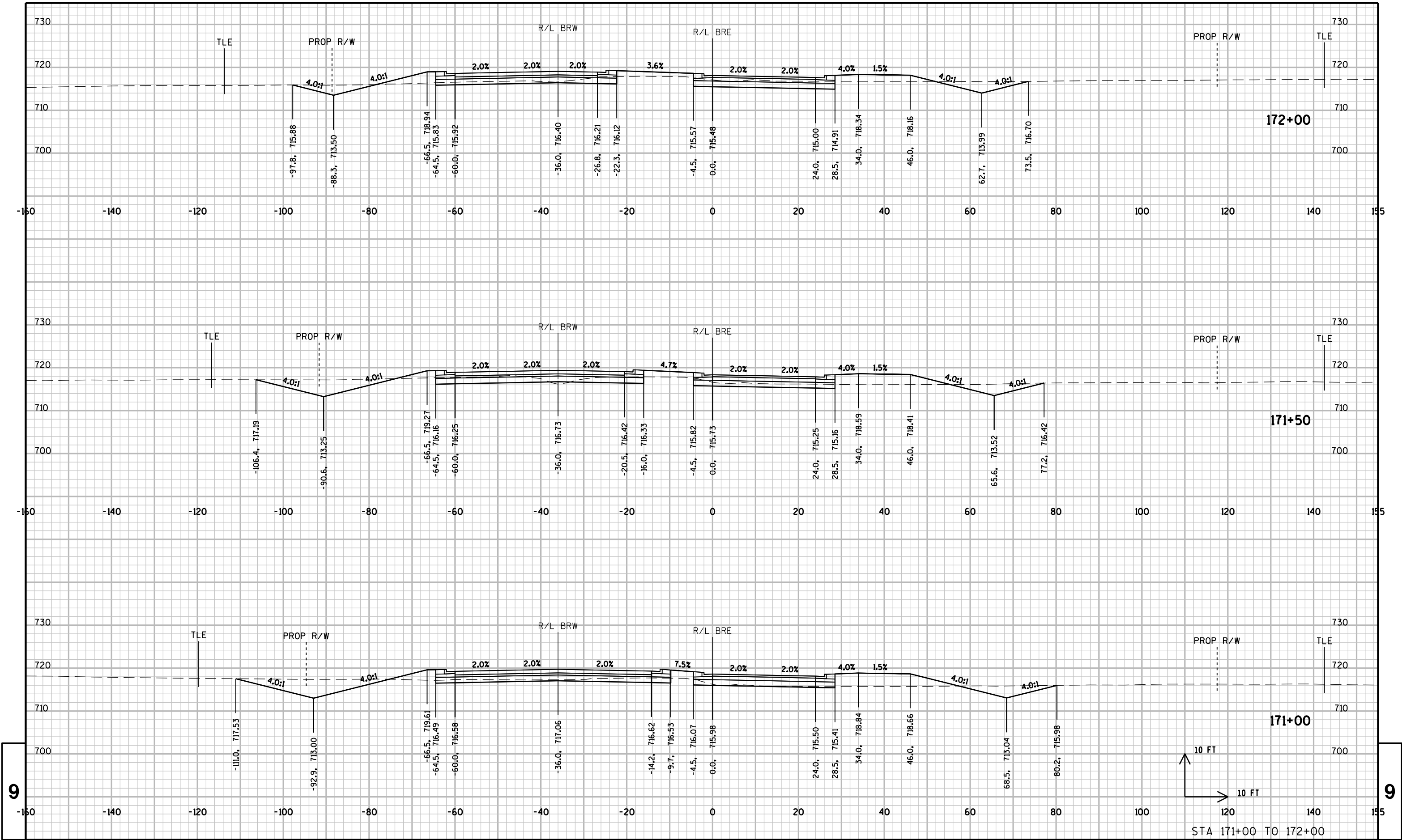
CROSS SECTIONS: BRAUN ROAD

SHEET

E







PROJECT NO: 2704-09-71

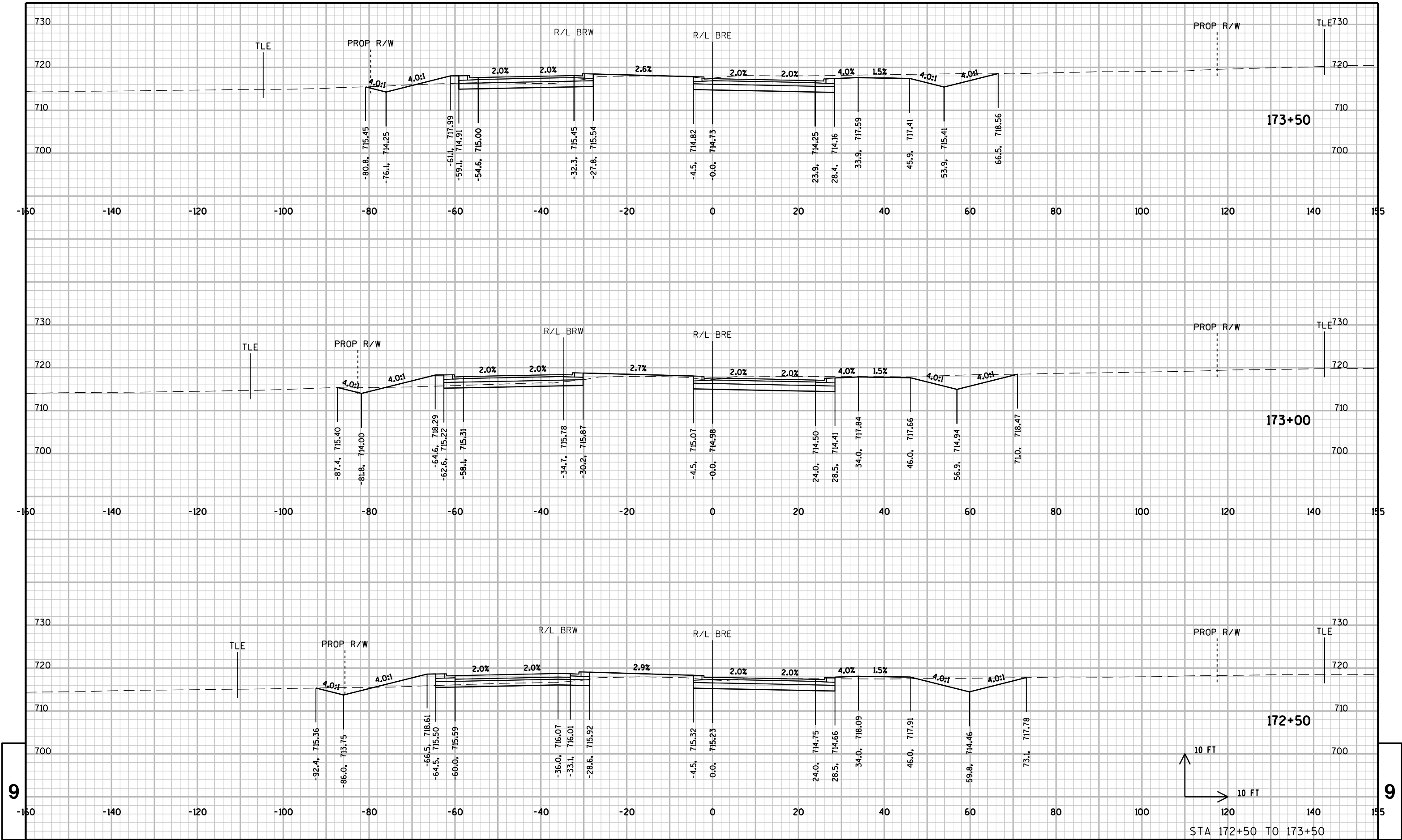
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COUNTY: RACINE

CROSS SECTIONS: BRAUN ROAD

SHEET

E



PROJECT NO: 2704-09-71

HWY: BRAUN ROAD

COUNTY: RACINE

CROSS SECTIONS: BRAUN ROAD

SHEET

E

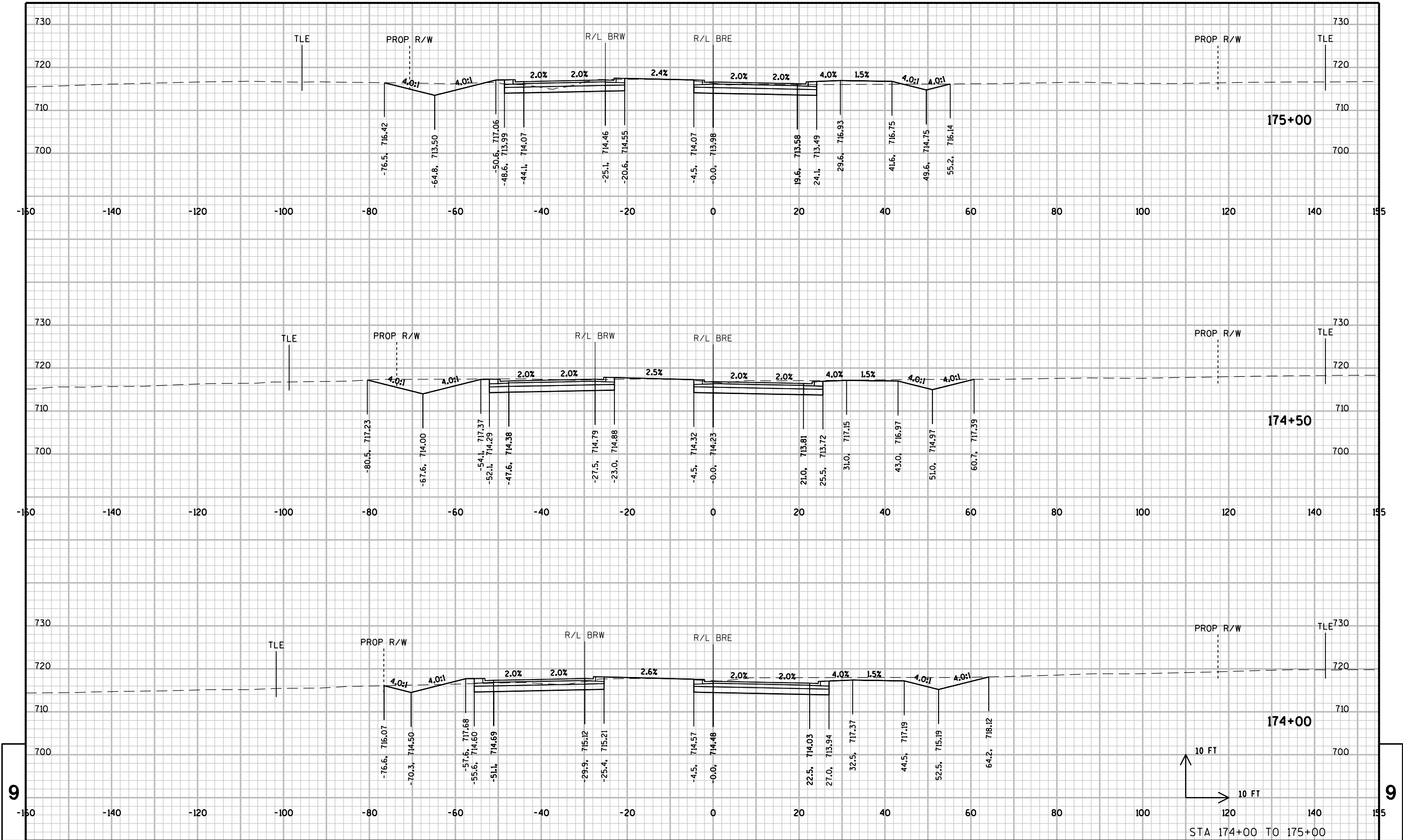
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PLOT BY : jdepies

PLOT NAME :

PLOT SCALE : 20:1

WISDOT/CADDs SHEET 21



PROJECT NO: 2704-09-71

HWY: BRAUN ROAD

COUNTY: RACINE

CROSS SECTIONS: BRAUN ROAD

SHEET

E

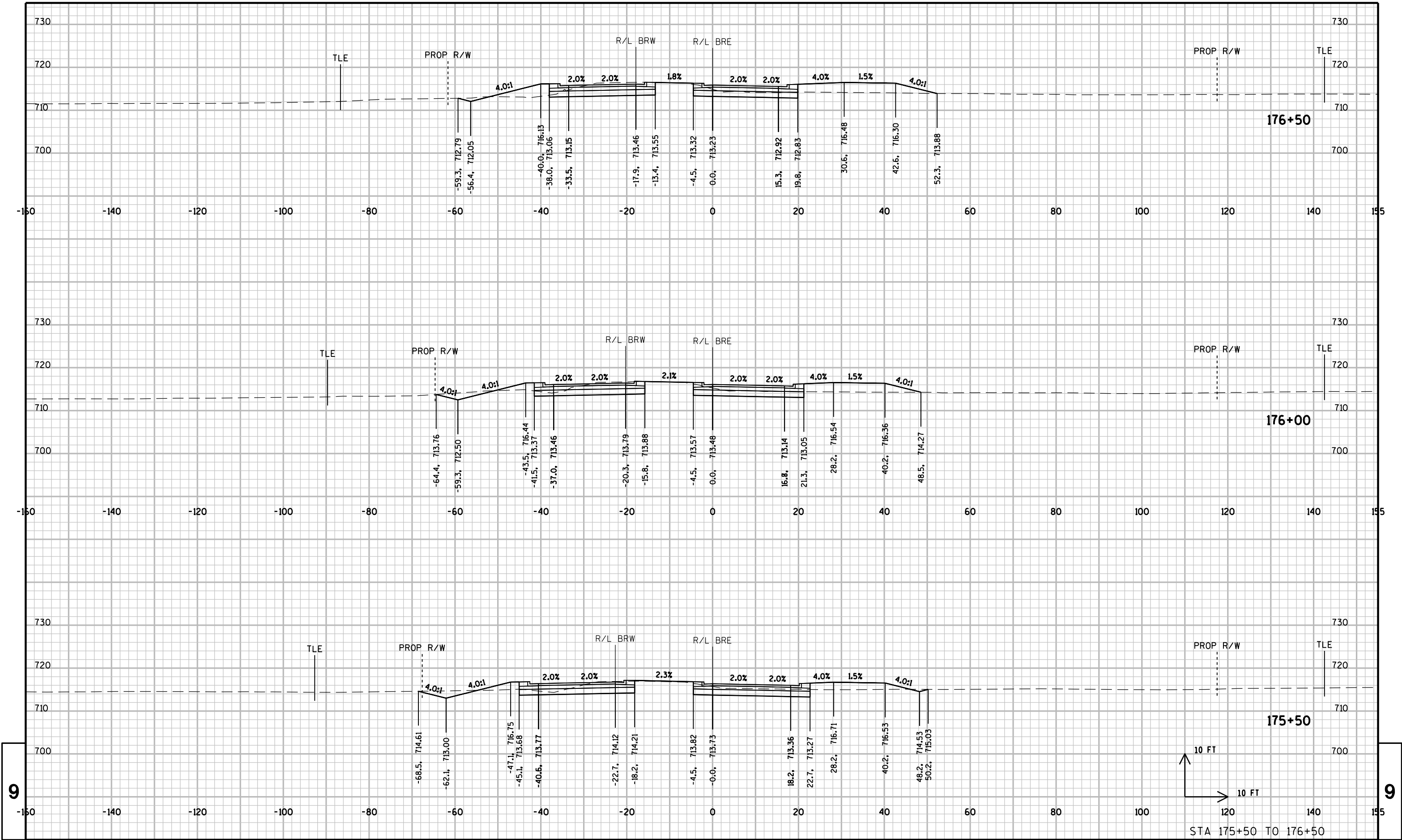
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PLOT BY : jdepies

PLOT NAME :

PLOT SCALE : 20:1

WISDOT/CADDs SHEET 21



PROJECT NO: 2704-09-71

HWY: BRAUN ROAD

COUNTY: RACINE

CROSS SECTIONS: BRAUN ROAD

SHEET

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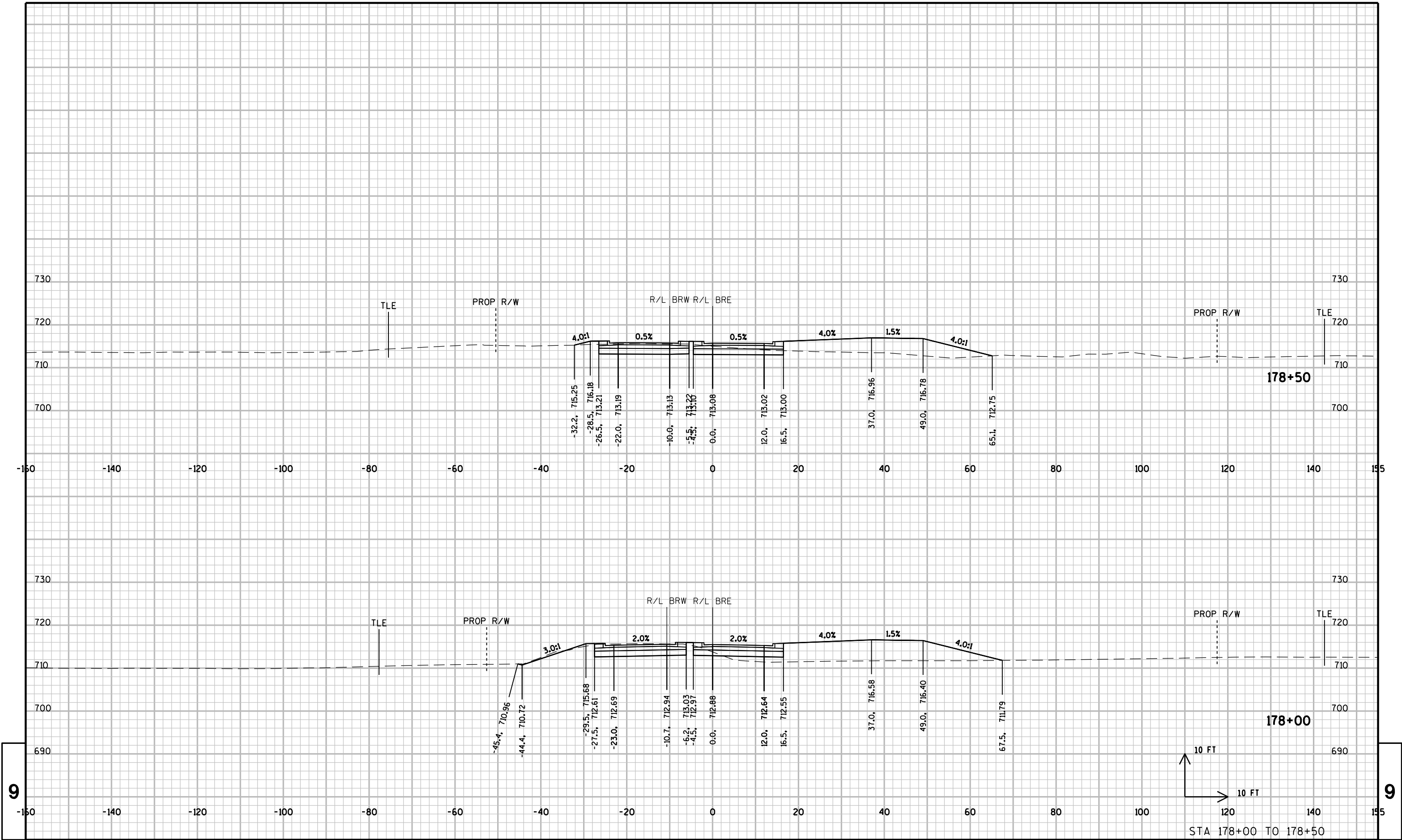
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PLOT BY : jdepies

PLOT NAME :

PLOT SCALE : 20:1

WISDOT/CADDs SHEET 21



PROJECT NO: 2704-09-71

HWY: BRAUN ROAD

COUNTY: RACINE

CROSS SECTIONS: BRAUN ROAD

SHEET

E

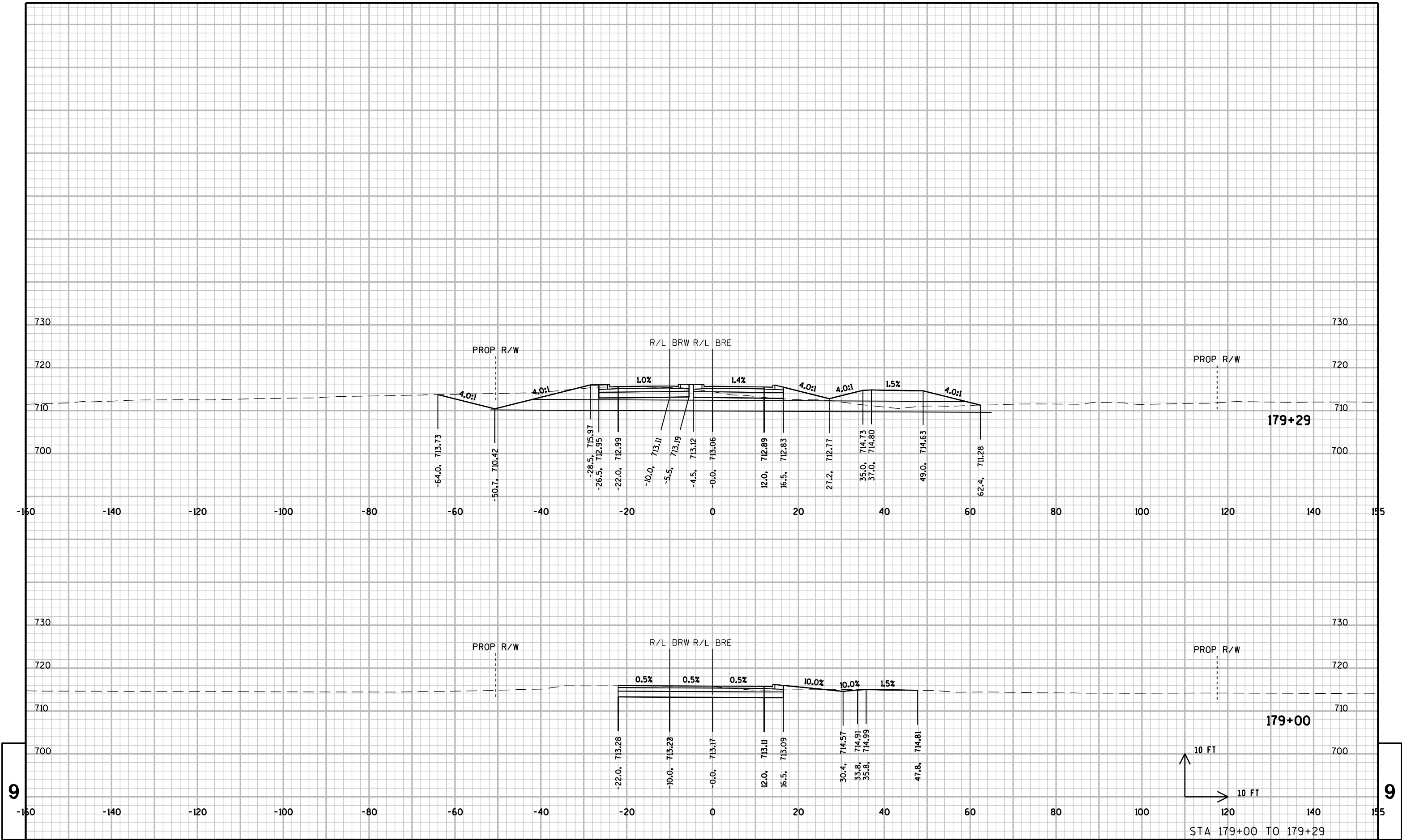
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PLOT SCALE : 20:1

WISDOT/CADDs SHEET 21



PROJECT NO: 2704-09-71

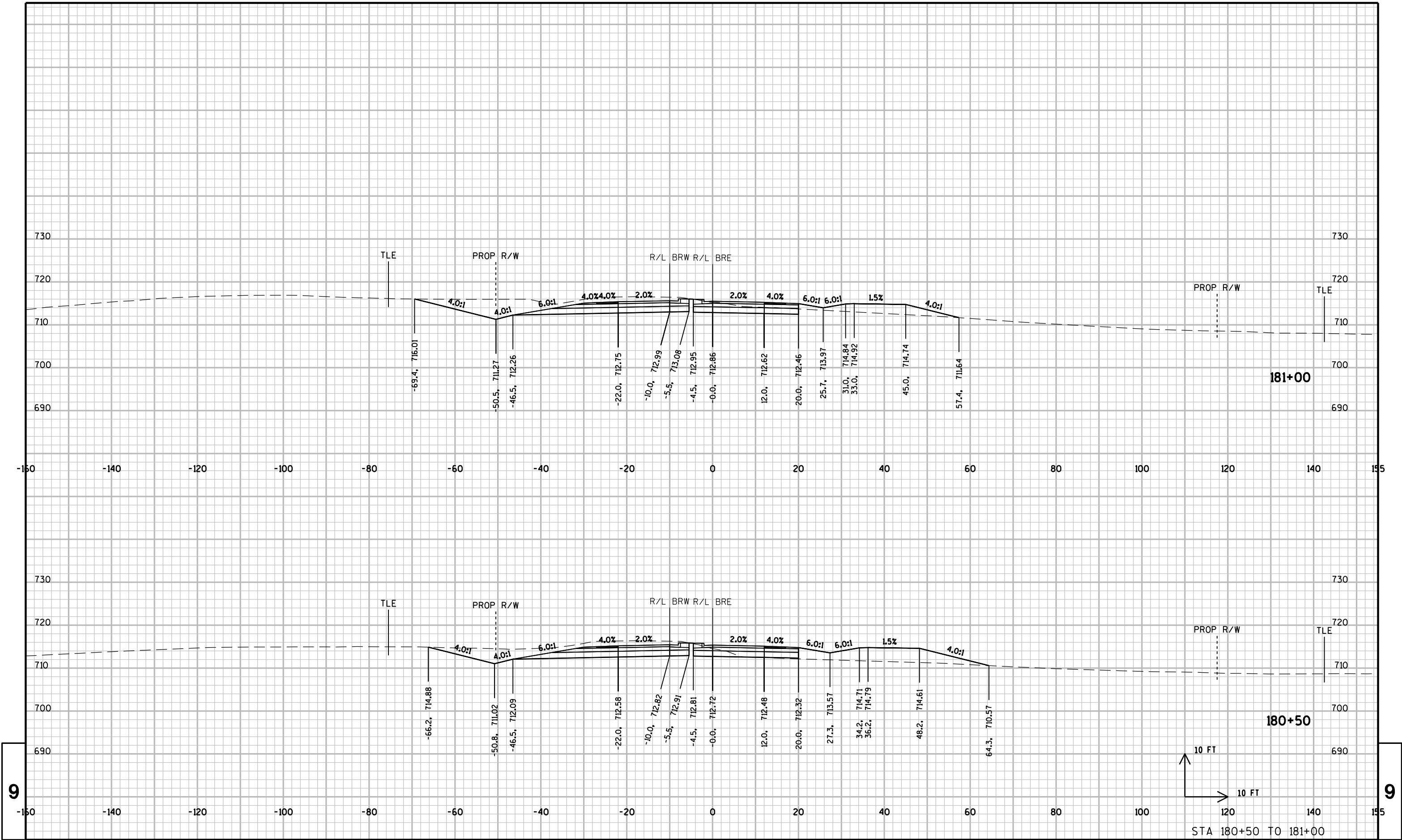
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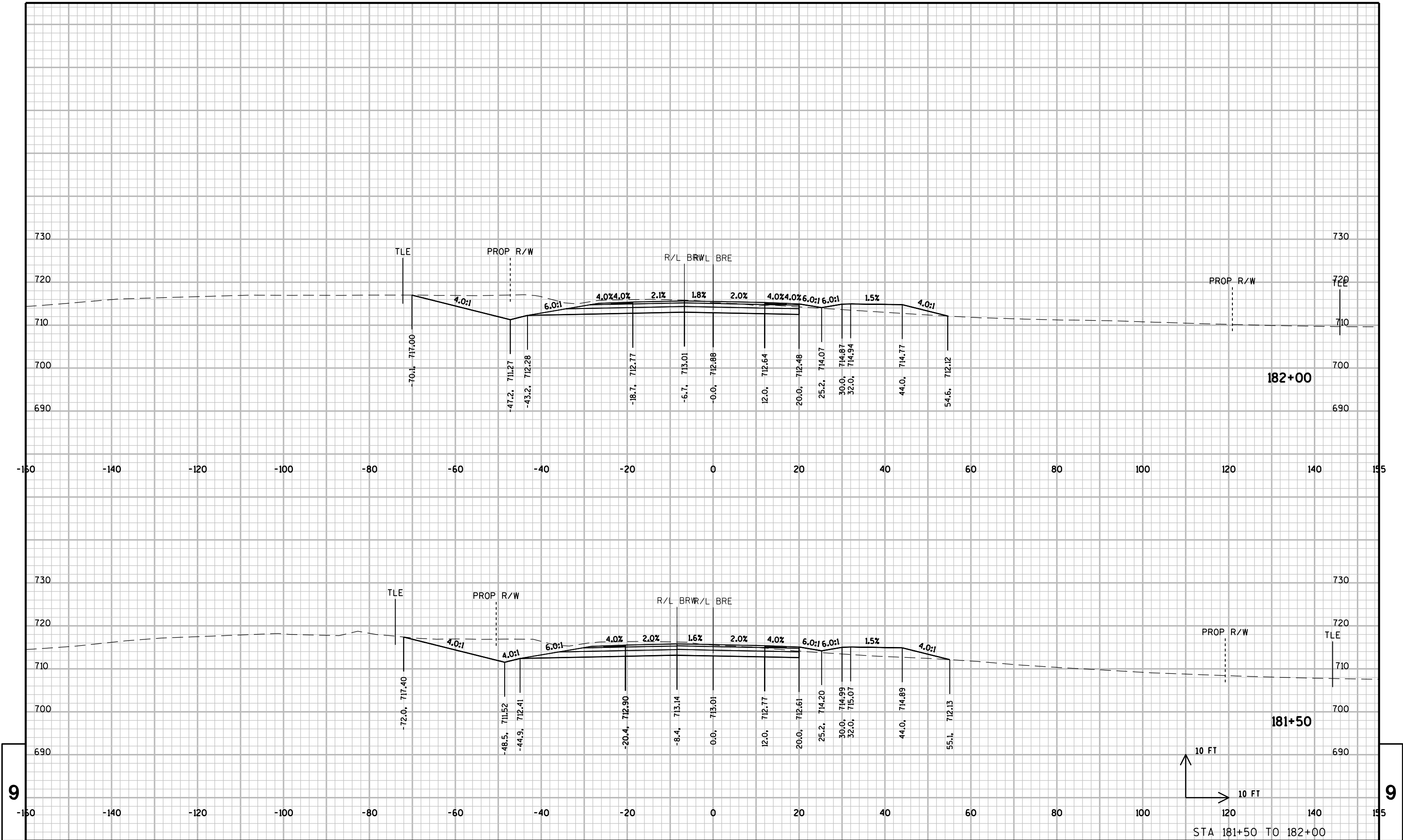
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CROSS SECTIONS: BRAUN ROAD

SHEET

E





PROJECT NO: 2704-09-71

HWY: BRAUN ROAD

COUNTY: RACINE

CROSS SECTIONS: BRAUN ROAD

SHEET

E

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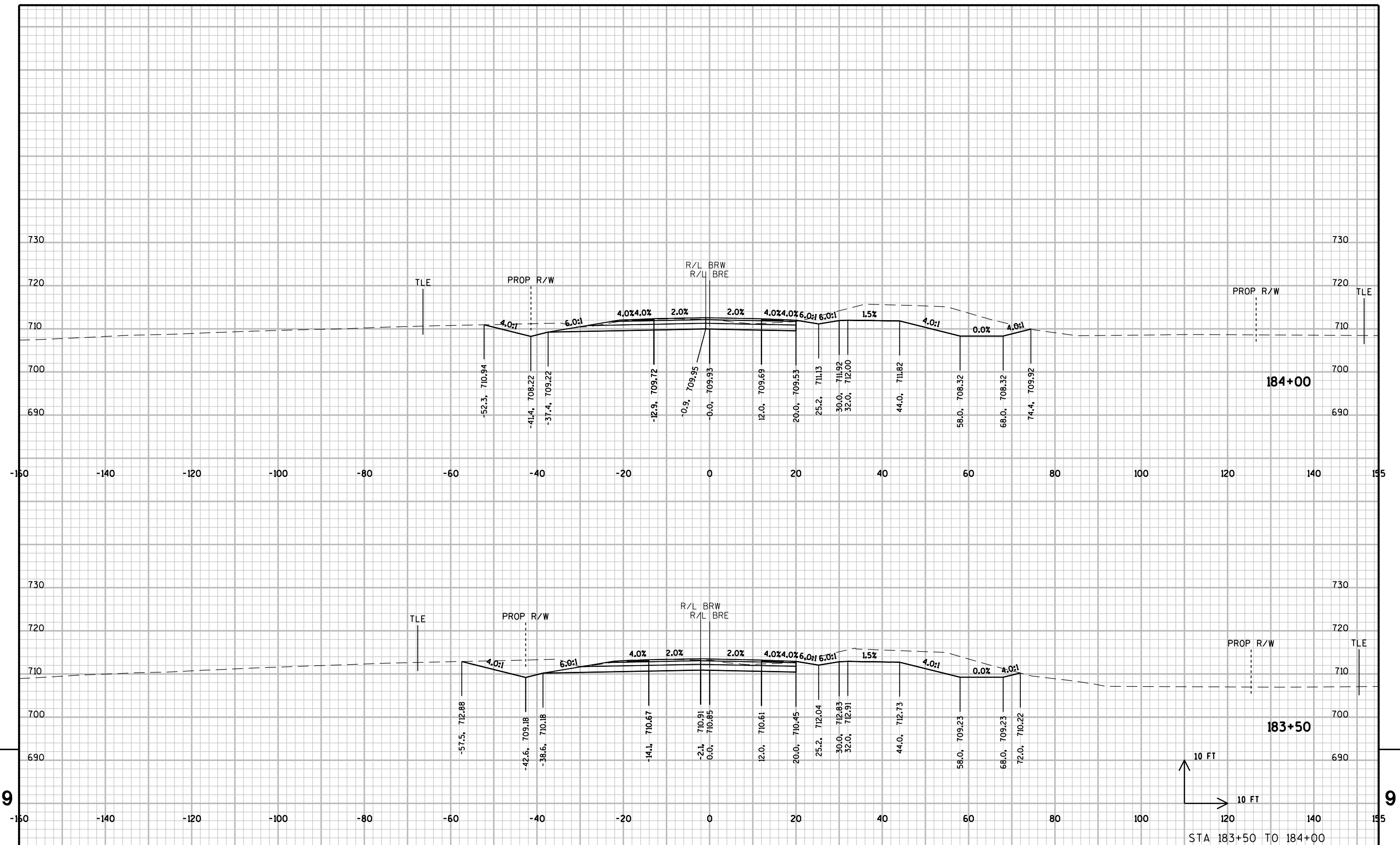
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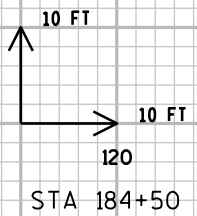
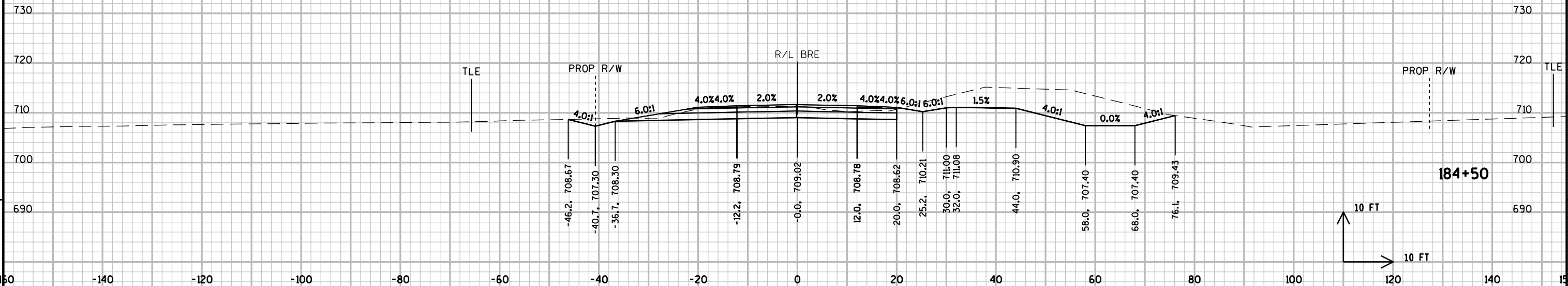
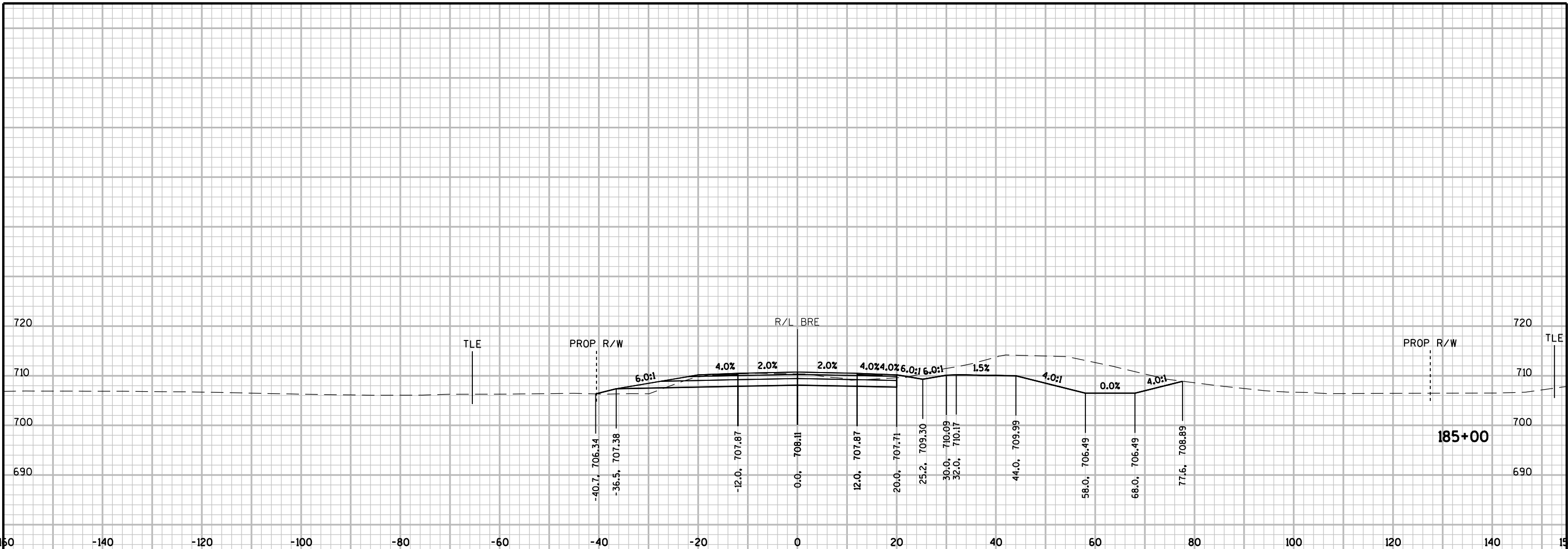
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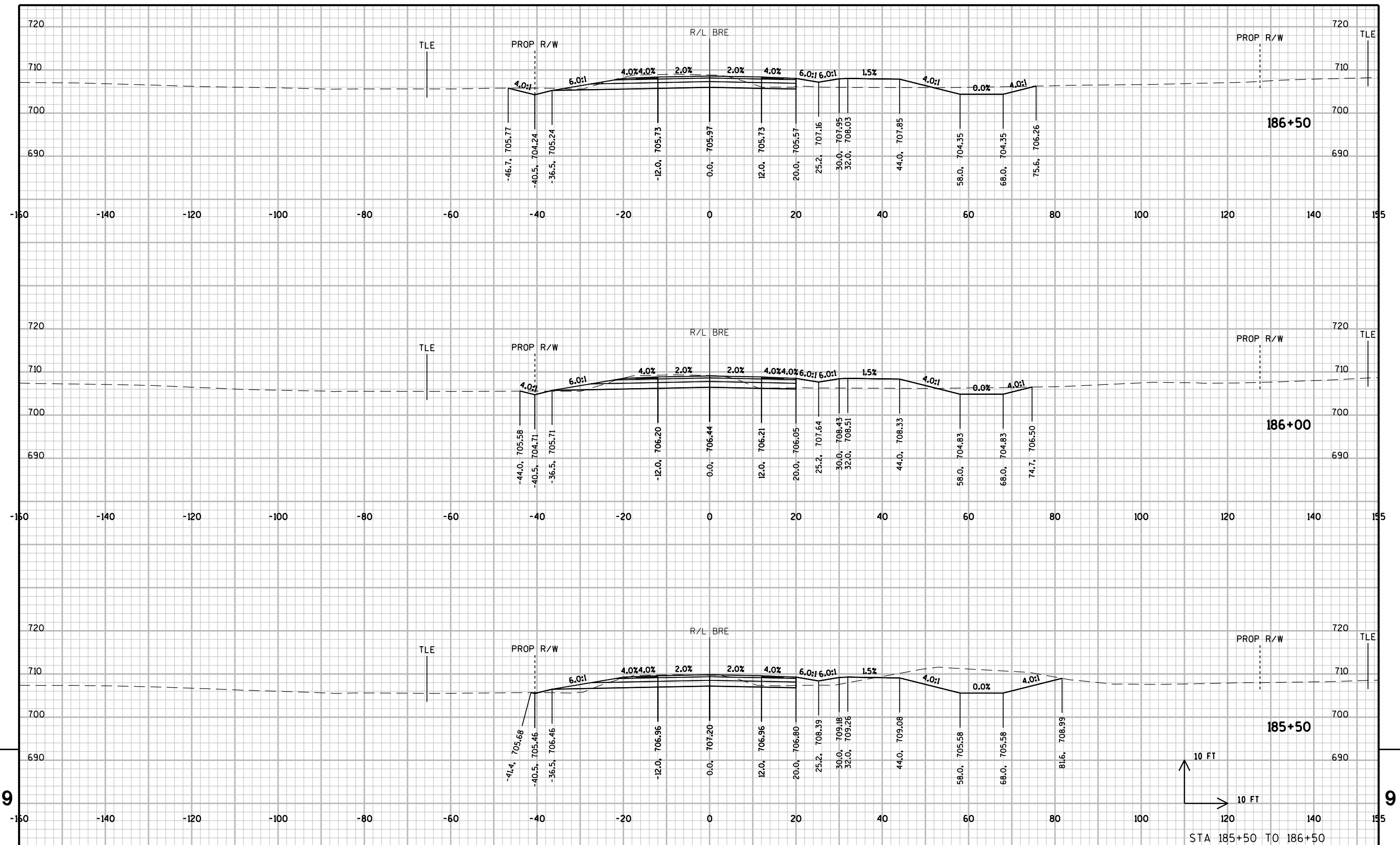
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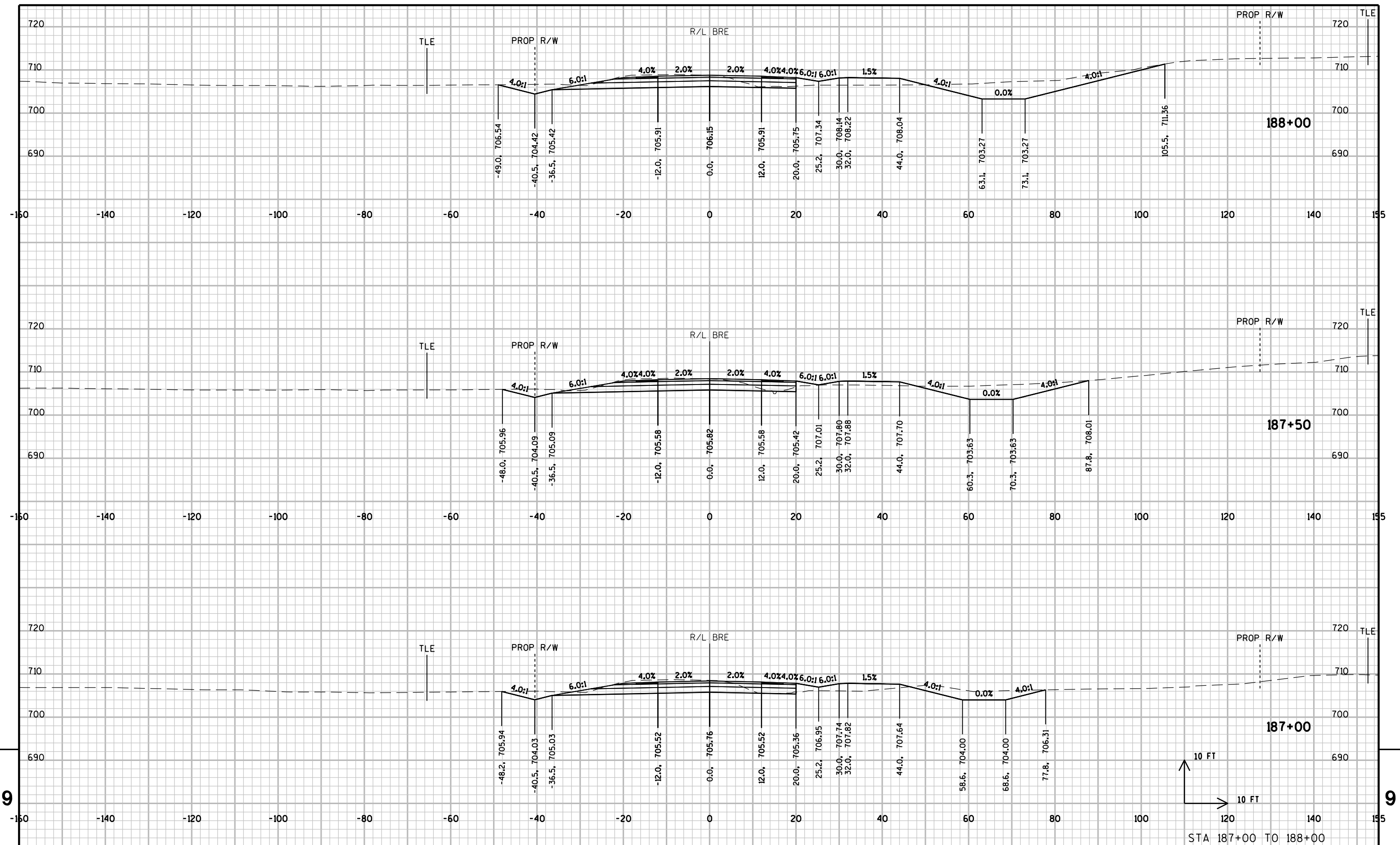
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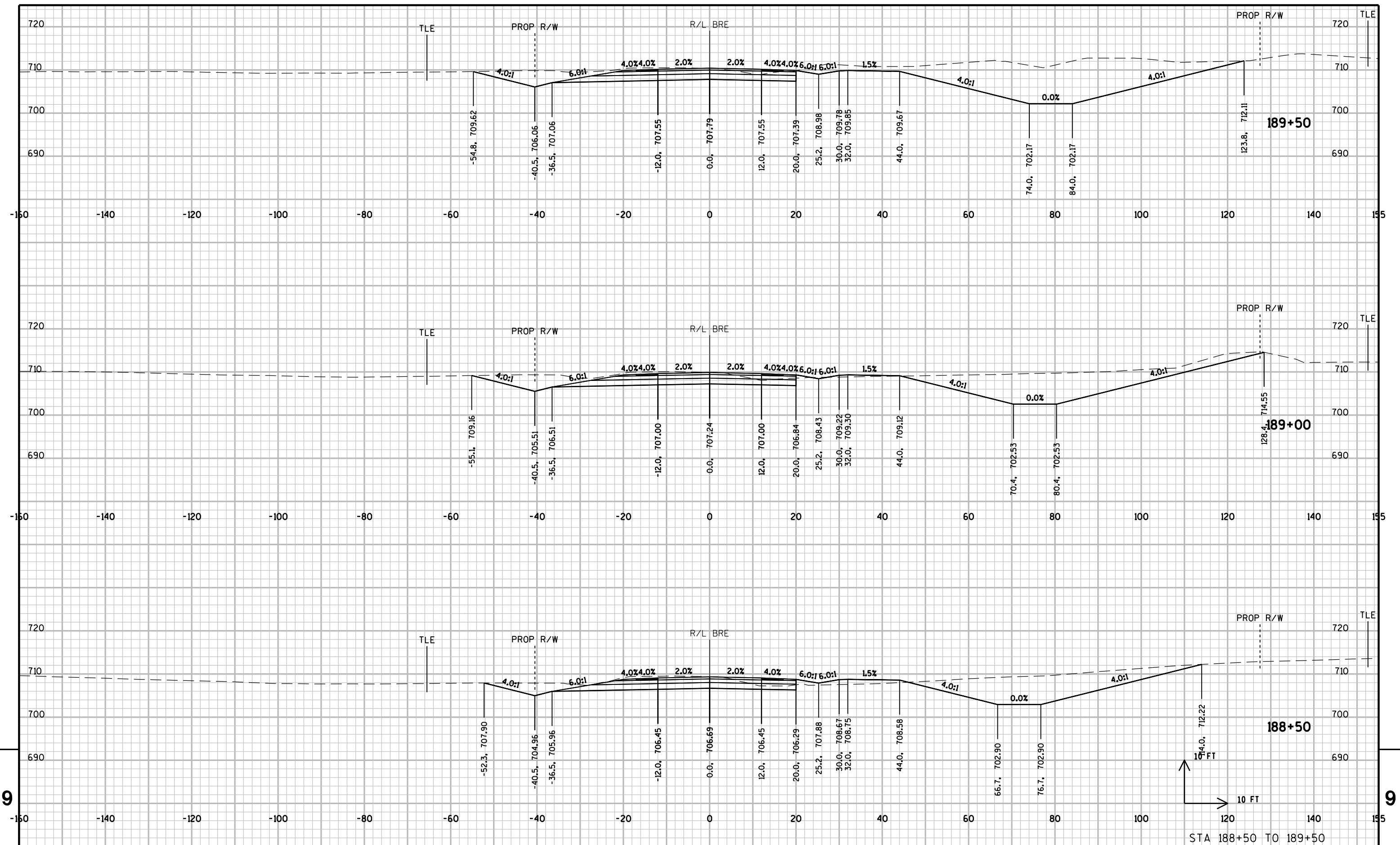
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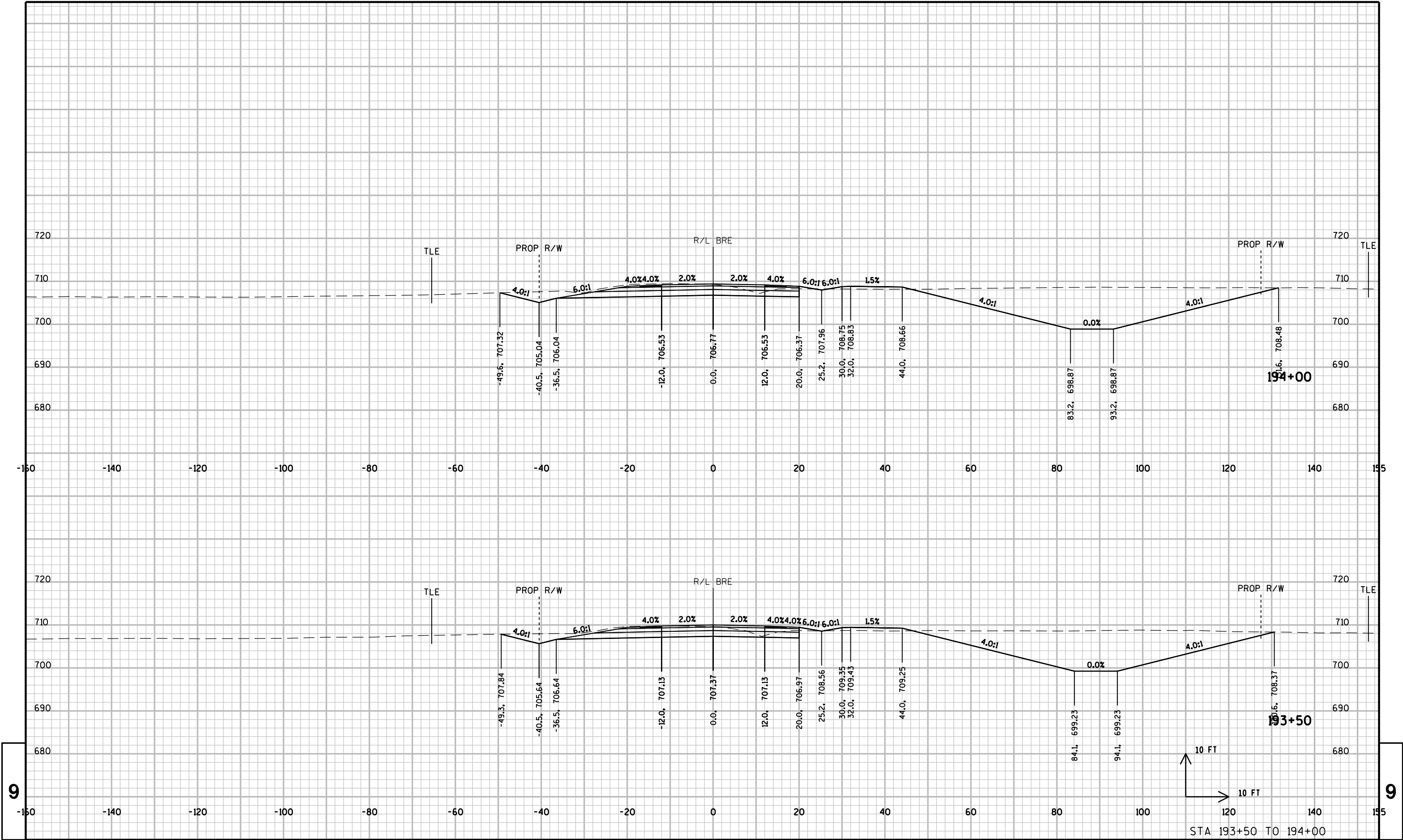












PROJECT NO: 2704-09-71

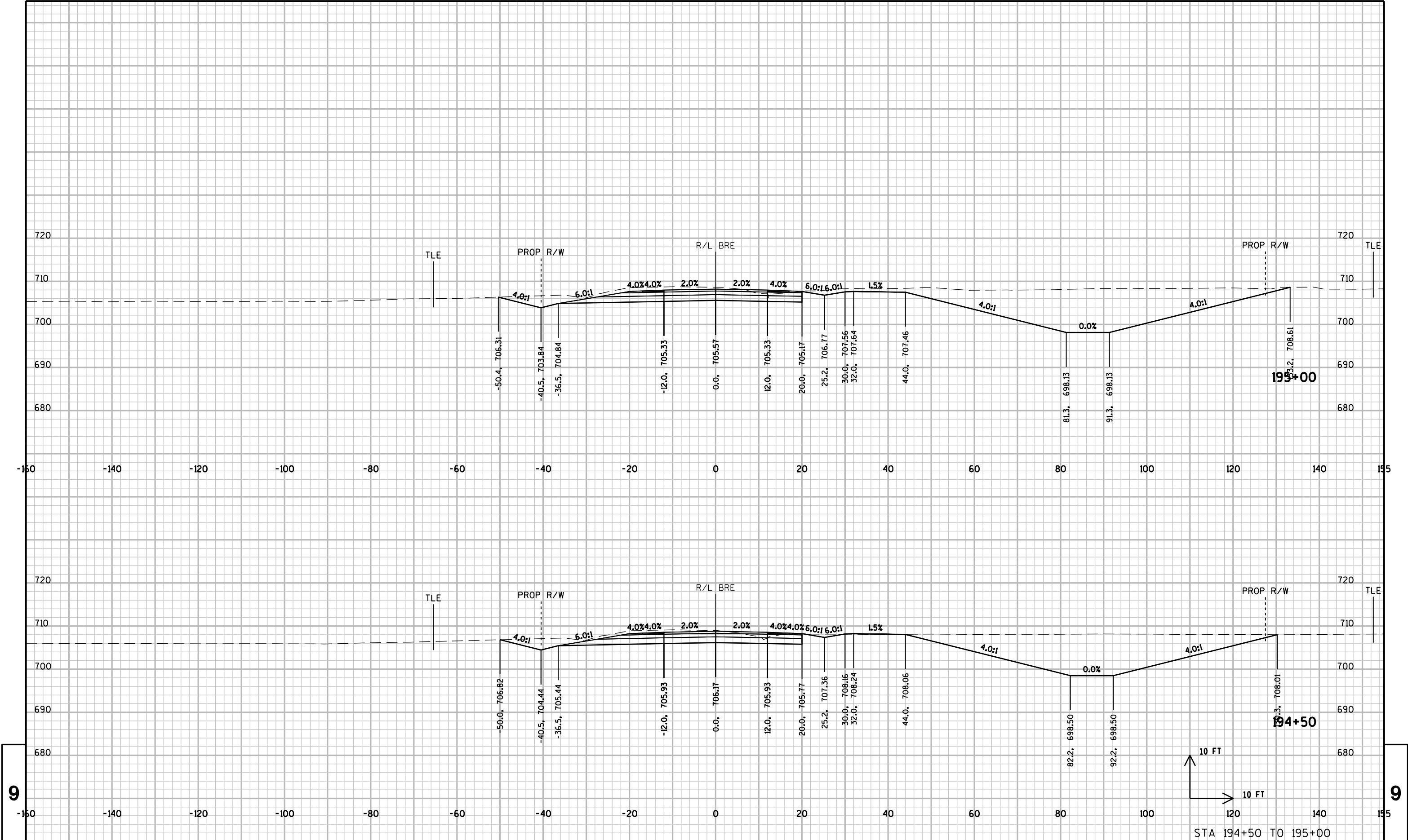
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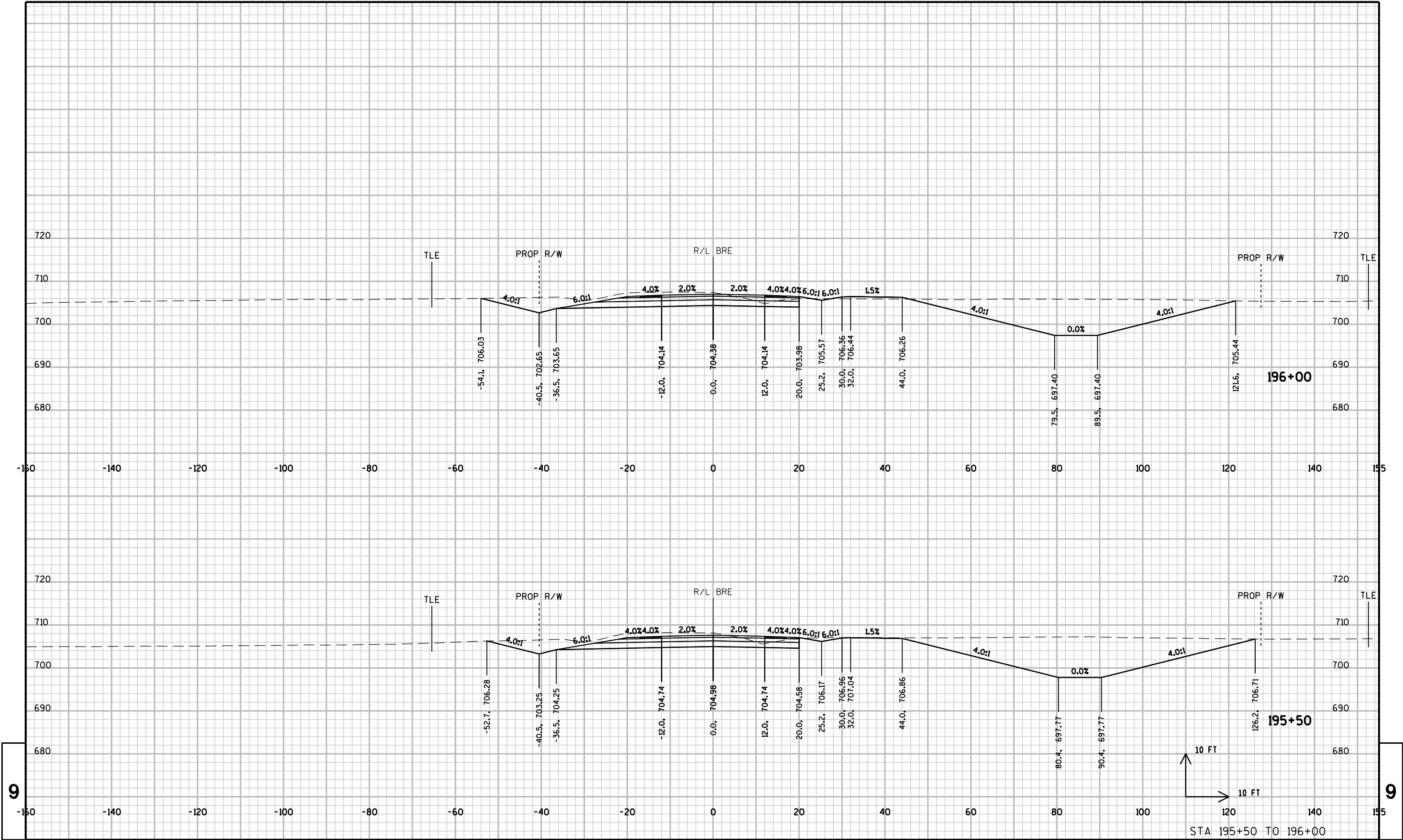
COUNTY: RACINE

CROSS SECTIONS: BRAUN ROAD

SHEET

E





PROJECT NO: 2704-09-71

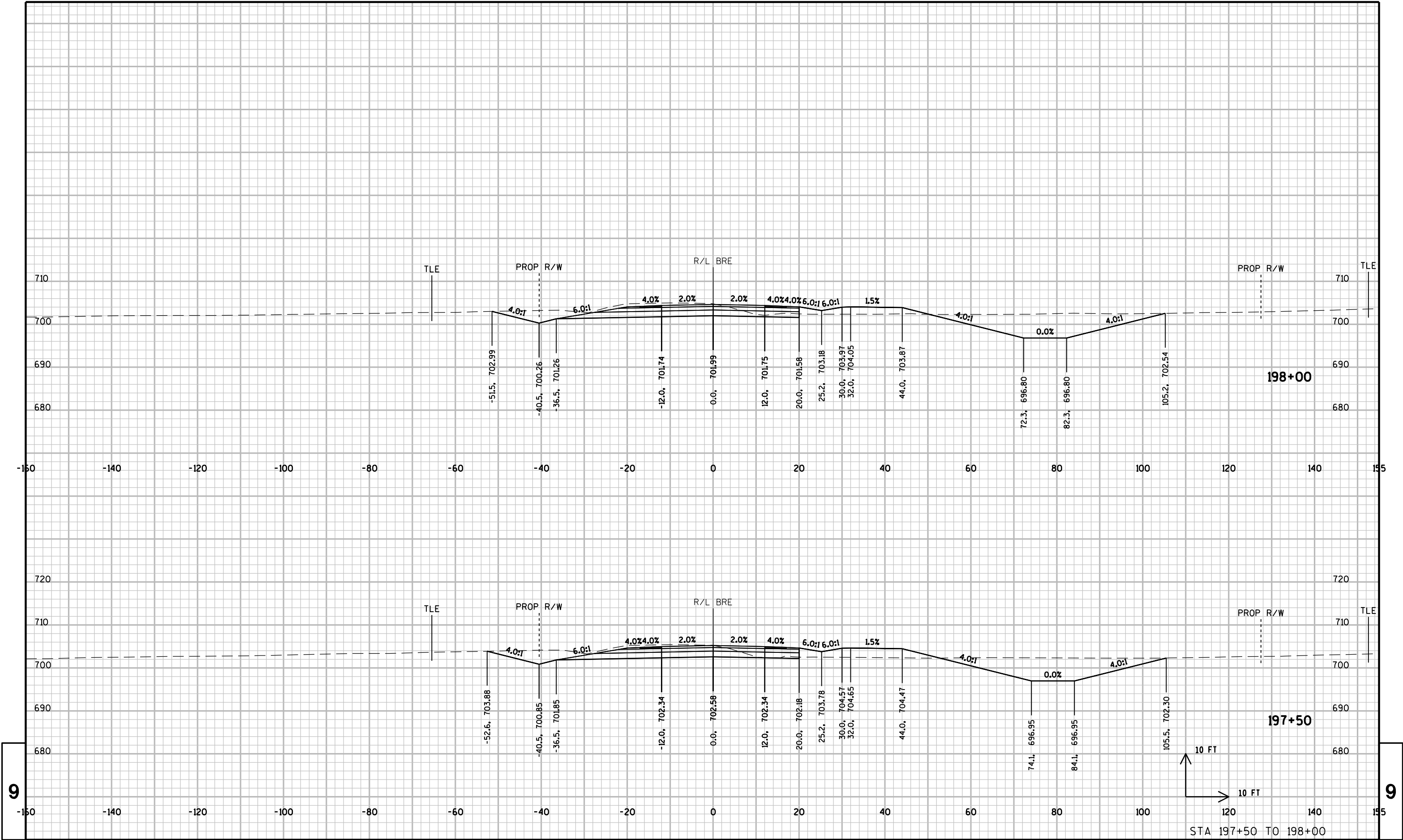
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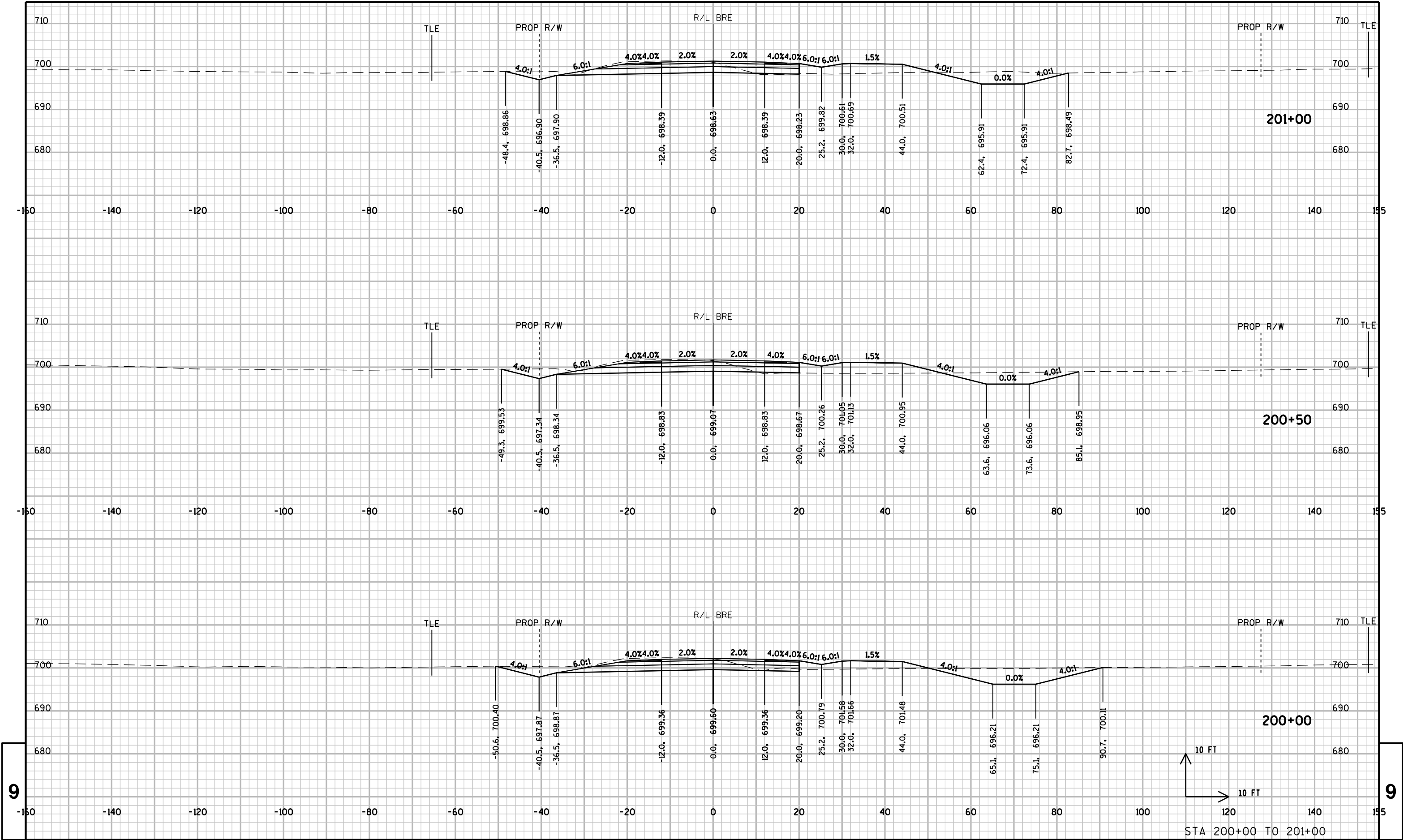
COUNTY: RACINE

CROSS SECTIONS: BRAUN ROAD

SHEET

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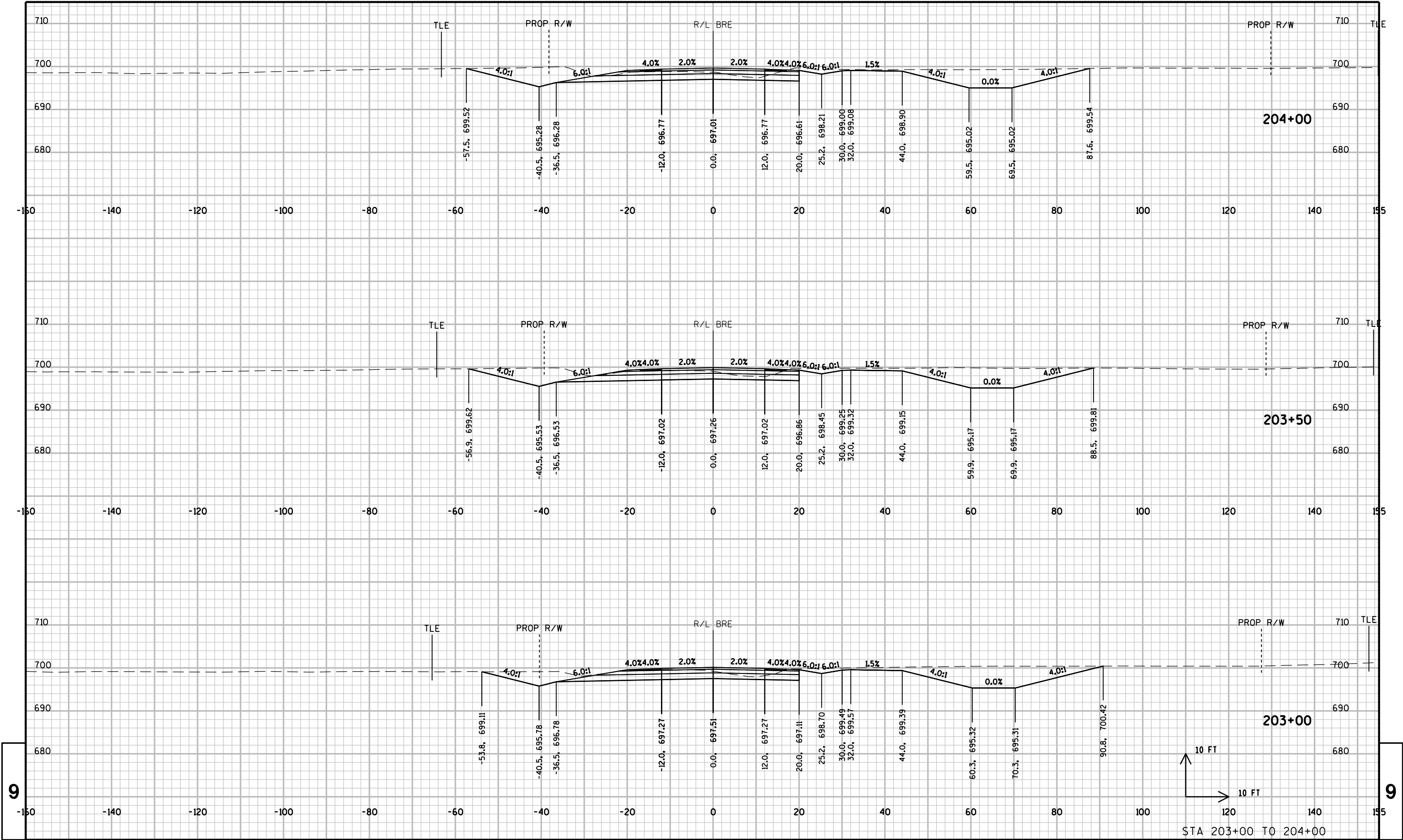
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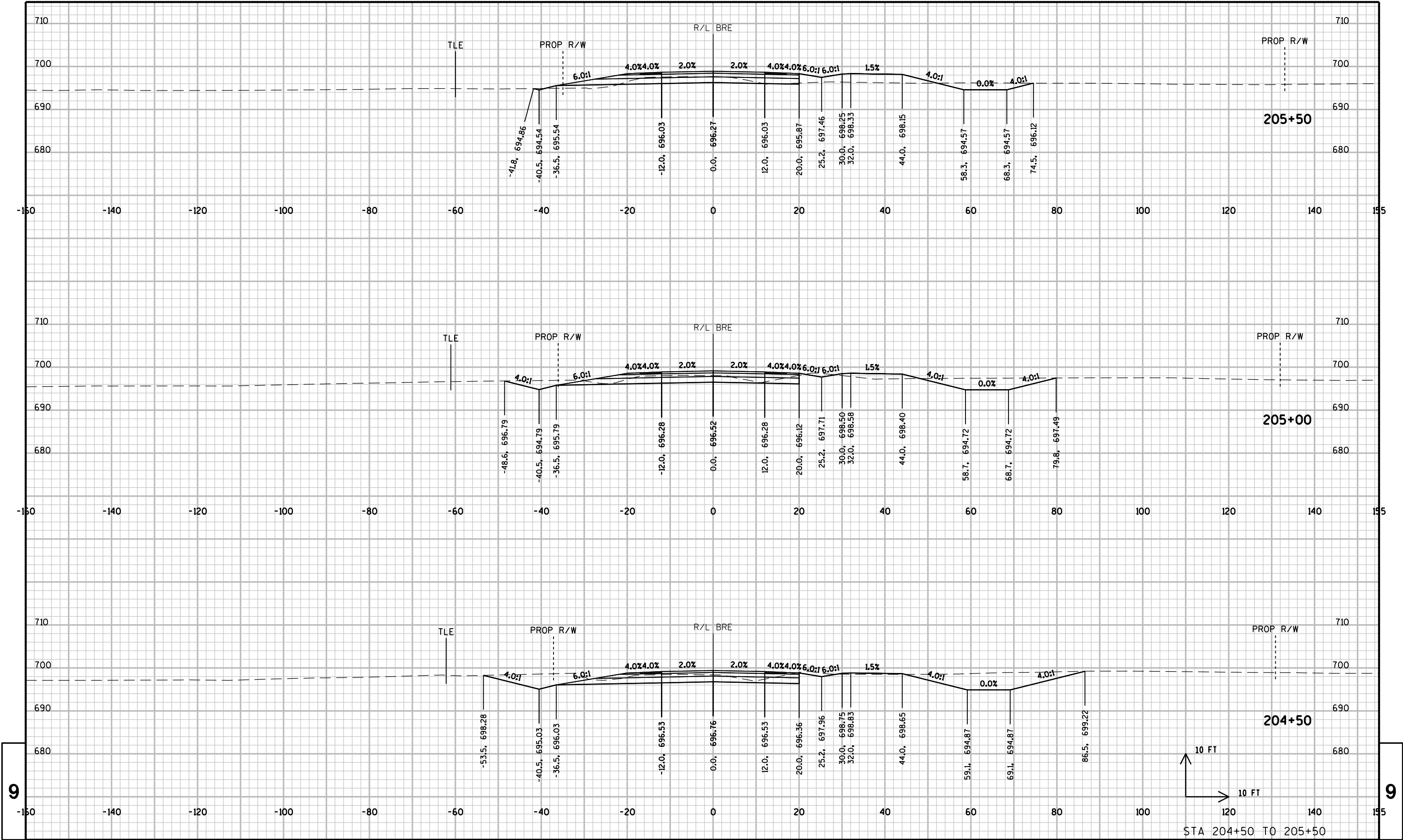
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CROSS SECTIONS: BRAUN ROAD

SHEET

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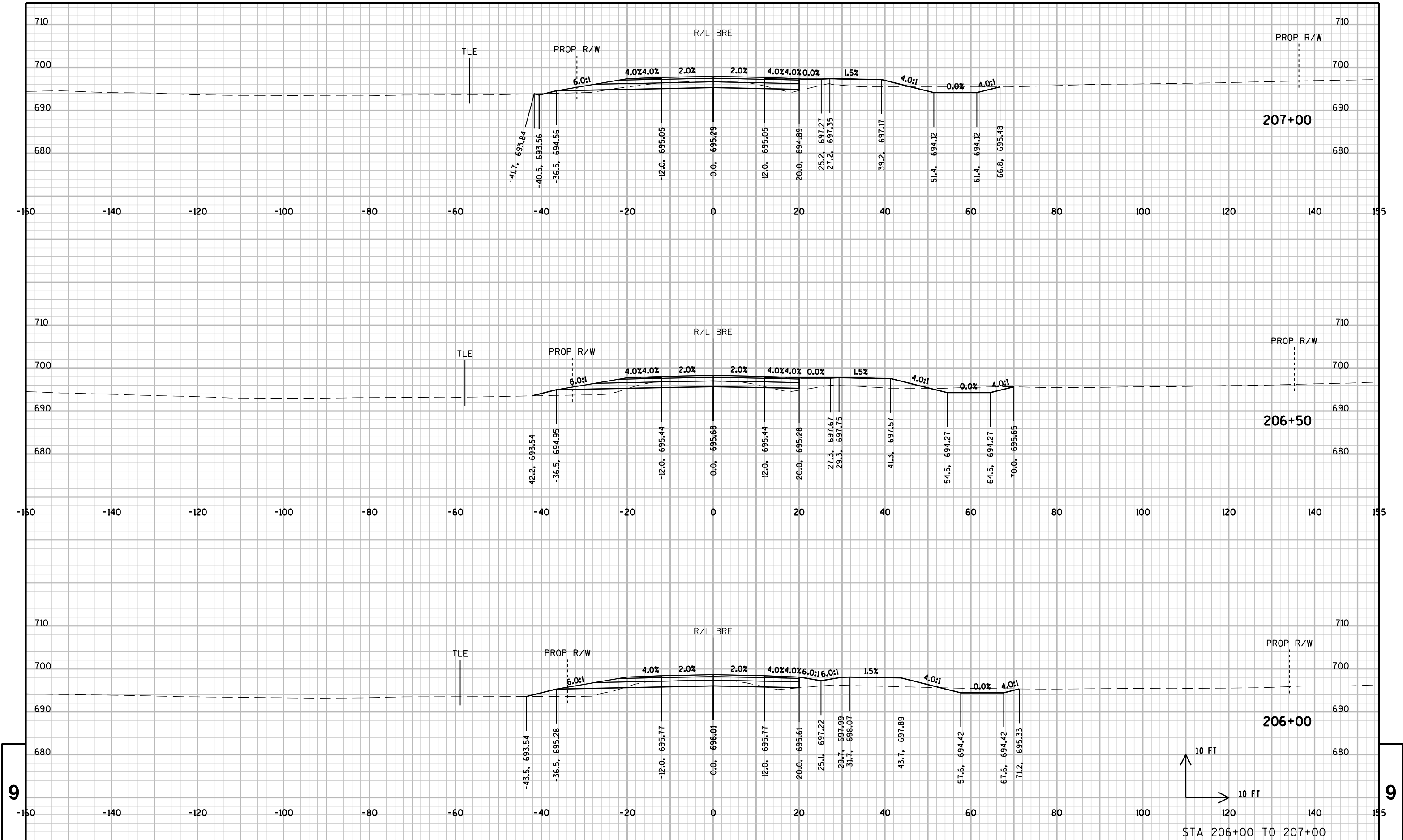
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COUNTY: RACINE

CROSS SECTIONS: BRAUN ROAD

SHEET

E



PROJECT NO: 2704-09-71

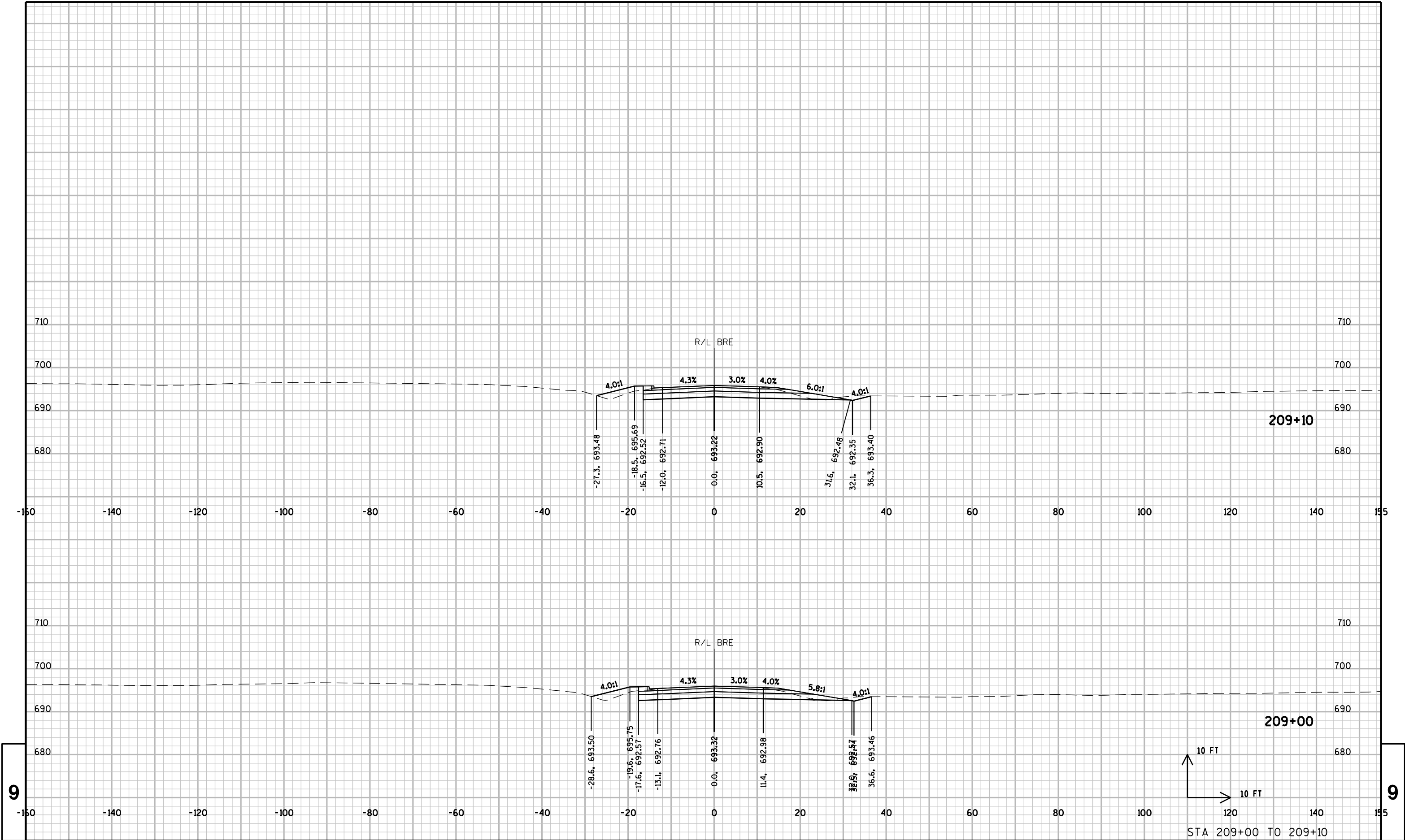
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COUNTY: RACINE

CROSS SECTIONS: BRAUN ROAD

SHEET

E



PROJECT NO: 2704-09-71

HWY: BRAUN ROAD

COUNTY: RACINE

CROSS SECTIONS: BRAUN ROAD

SHEET

E

EPlans Preliminary Sheet Numbering Tool

Notes

- Acrobat 5 or higher is required to Insert Preliminary Sheet Numbers.
- The Bureau of Highway Construction Plan Examiner places sheet numbers in the final plan.
- This sheet is for placing preliminary sheet numbers with a “PRE_” prefix.
- If a plan contains multiple projects, number each plan individually.
- Leave this sheet in the plan.

TO ADD PRELIMINARY SHEET NUMBERS

- 1. Insert this sheet at the end of the plan**
 - a. With the plan open in Acrobat, select Document > Insert Pages.
 - b. In the Select File to Insert dialog box, select this file (Preliminary_Sheet_Numbers.pdf)
 - c. In the Insert dialog box, choose After for Location and Last page for Page.
 - d. Click OK.
- 2. Click the Place Preliminary Sheet Numbers button**
 - a. Go to the last sheet of the plan.
 - b. Click the Place Preliminary Sheet Numbers button once.
(The preliminary sheet number appears in the bottom right corner of the sheets.
The number should match the page number in the Acrobat Status bar).
- 3. Re-Save the PDF**
 - a. Select File > Save As and save the PDF.

TO REMOVE PRELIMINARY SHEET NUMBERS