

WKE
PROJECT ID: 1030-24-76
WITH: N/A
COUNTY: RACINE

APR 13

ORDER OF SHEETS

Section No. 1	Title
Section No. 2	Typical Sections and Details (Includes Erosion Control)
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 = 102

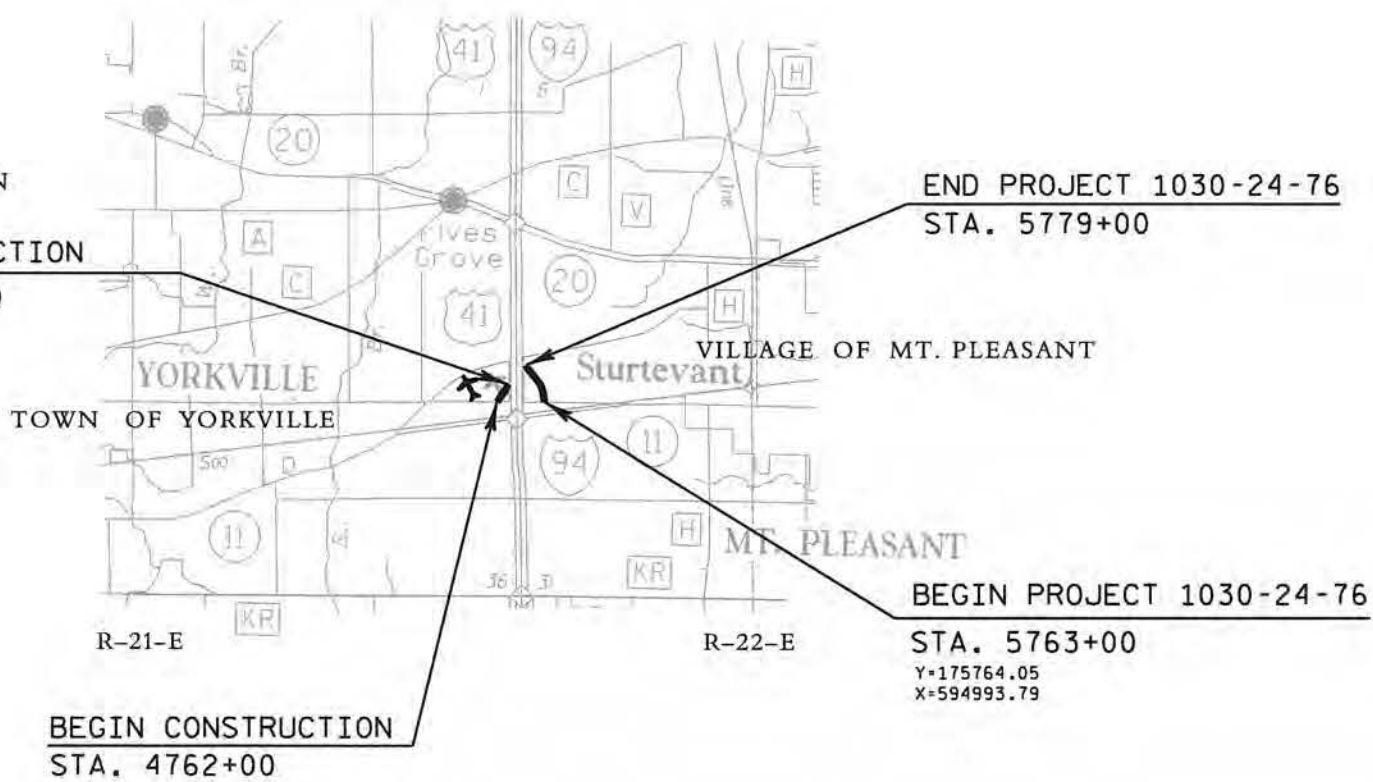


DESIGN DESIGNATION		FRONTAGE RD.	
		EAST	WEST
A.A.D.T. 2010	=	790	1,125
A.A.D.T. 2035	=	1,625	1,440
D.H.V.	=	N/A	N/A
D.D.	=	N/A	N/A
T.	=	N/A	N/A
DESIGN SPEED	=	50 MPH	40/50 MPH
ESALS	=	N/A	N/A

CONVENTIONAL SYMBOLS	
PLAN	PROFILE
CORPORATE LIMITS	GRADE LINE
PROPERTY LINE	ORIGINAL GROUND
LOT LINE	MARSH OR ROCK PROFILE (To be noted as such)
LIMITED HIGHWAY EASEMENT	SPECIAL DITCH
EXISTING RIGHT OF WAY	GRADE ELEVATION
PROPOSED OR NEW R/W LINE	CULVERT (Profile View)
SLOPE INTERCEPT	UTILITIES
REFERENCE LINE	ELECTRIC
EXISTING CULVERT	FIBER OPTIC
PROPOSED CULVERT (Box or Pipe)	GAS
COMBUSTIBLE FLUIDS	SANITARY SEWER
MARSH AREA	STORM SEWER
WOODED OR SHRUB AREA	TELEPHONE
	WATER
	UTILITY PEDESTAL
	POWER POLE
	TELEPHONE POLE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
PLAN OF PROPOSED IMPROVEMENT
N-S FREEWAY STH 11 INTERCHANGE
FRONTAGE ROAD GRADING
IH-94
RACINE COUNTY

STATE PROJECT NUMBER
1030-24-76



LAYOUT
SCALE 0 1 MI.

TOTAL NET LENGTH OF CENTERLINE = 0.000 MI.

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), RACINE COUNTY, NAD 1983(97)
ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988(91), (NAVD88(91)).

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1030-24-76	WISC 2013215	1

ORIGINAL PLANS PREPARED BY
DAAR
ENGINEERING, INC.
www.daarengineering.com
Milwaukee, WI 53212
414-225-9817



10/31/2012
(Date) (Signature)

ORIGINAL PLANS PREPARED BY
EMCS
1300 N. Canal Street, Suite 200
Milwaukee, WI 53233
414.347.607 FAX 414.347.347



10/31/2012
(Date) (Signature)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
PREPARED BY	
Surveyor	WisDOT
Designer	SE Design Works
Project Manager	JOSHUA LEVEQUE
Regional Examiner	
Regional Supervisor	WAFA ELOAO
C.O. Examiner	

APPROVED FOR THE DEPARTMENT
DATE: 10/31/12
(Date) (Signature)

E

UTILITY CONTACTS

TO OBTAIN LOCATION OF
PARTICIPANTS' UNDERGROUND
FACILITIES BEFORE YOU DIG IN
WISCONSIN

WIS. STATUTE 182.0175 (1974)
REQUIRES MIN. OF 3 WORK DAYS
NOTICE BEFORE YOU EXCAVATE.



Call 811 3 Work Days Before You Dig
or Toll Free (800) 242-8511
Hearing Impaired TDD (800) 542-2289
www.DiggersHotline.com

AT&T CORPORATION

MR. RICH MEYERS
JMC ENGINEERS & ASSOC., INC.
110 NORTH MAIN STREET
CULVER, IN 46511
PHONE: (630)215-7567

TIME WARNER CABLE

MR. ROBERT DETERT
TIME WARNER CABLE
1320 N. MARTIN LUTHER KING JR. DR.
MILWAUKEE, WI 53212
PHONE: (414) 277-4280
EMAIL: robert.detert@twcable.com

WE ENERGIES (GAS OPERATIONS)

SEND ALL CORRESPONDENCE TO: DAN SANDE
MR. DAN SANDE, PROJECT MANAGER
WE ENERGIES (GAS OPERATIONS)
333 W. EVERETT ST - A279
MILWAUKEE, WI 53203
PHONE: (414) 221-4578
EMAIL: dan.sande@we-energies.com

AT&T WISCONSIN

MR. TOM KIEFER
AT&T WISCONSIN
316 W. WASHINGTON AVE. RM. 305
MADISON, WI 53703
PHONE: (608) 282-7894
EMAIL: TK6192@att.com

WE ENERGIES (ELECTRIC)

SEND ALL CORRESPONDENCE TO: DAN SANDE
MR. DAN SANDE, PROJECT MANAGER
WE ENERGIES (ELECTRIC)
333 W. EVERETT ST - A279
MILWAUKEE, WI 53203
PHONE: (414) 221-4578
EMAIL: dan.sande@we-energies.com

MR. BRANDON ERTS
500 S. 116TH ST.
WEST ALLIS, WI 53214
OFFICE: 414-944-5767
CELL: 262-364-9142
EMAIL: Brandon.Erts@we-energies.com

LEVEL 3 COMMUNICATIONS, LLC

MR. MARK DECHANT
LEVEL 3 COMMUNICATIONS, LLC
507 S. 2ND STREET
MILWAUKEE, WI 53204
PHONE: (414) 426-1857
EMAIL: Mark.Dechant@Level3.com

MR. JOE LAMPADA
7815 NORTHWESTERN AVENUE
RACINE, WI 53406
OFFICE: 262-886-7046
CELL: 262-930-0884
EMAIL: Joe.Lampada@we-energies.com

WISDOT STOC
MR. DONALD SCHELL
WISDOT STOC
433 W ST PAUL AVE, SUITE 300
MILWAUKEE, WI 53203
PHONE: (414) 227-2148
EMAIL: donald.schell@dot.wi.gov

OTHER AGENCIES

TOWN OF YORKVILLE

MS. JUDY AIMONE
CLERK/TREASURER
925 MAIN STREET
PO BOX 15
UNION GROVE, WI 53182
PHONE: (262) 878-2123
judy@townofyorkville.com

WISCONSIN DEPARTMENT OF
NATURAL RESOURCES
(SOUTHEAST REGION)

KRISTINA BETZOLD
2300 N. MARTIN LUTHER KING DR.
MILWAUKEE, WI 53212
PHONE: (414) 263-8517
Kristina.Betzold@Wisconsin.gov

RACINE COUNTY DPW

MR. JEFFREY KATZ
MANAGER PLANNING/ENGINEERING
14200 WASHINGTON AVE.
STURTEVANT, WI 53177
PHONE: (262) 886-8440
jeff.katz@goracine.org

WISCONSIN DEPARTMENT OF
TRANSPORTATION

KARLA LEITHOFF, WETLAND ECOLOGIST
141 NW BARSTOW ST.
WAUKESHA, WI 53187-0798
PHONE: (262) 548-6709
Karla.leithoff@dot.wi.gov

VILLAGE OF MOUNT PLEASANT

MR. BILL SASSE
DIRECTOR OF ENGINEERING
6126 DURAND AVENUE
RACINE, WI 53406
PHONE: (262) 554-8750
bsasse@mtpleasantwi.gov

WISCONSIN DEPARTMENT OF
TRANSPORTATION

JOSH LEVEQUE, PROJECT MANAGER
141 NW BARSTOW ST.
WAUKESHA, WI 53187-0798
PHONE: (414) 220-5444
Joshua.leveque@dot.wi.gov

WisDOT UTILITY COORDINATOR

RABI BISTA
SE FREEWAYS
UTILITY COORDINATOR
WISDOT, SE REGION
141 NW BARSTOW ST.
WAUKESHA, WI 53187-0798
CELL: (414) 750-7224
rabi.bista@dot.wi.gov

DAAR ENGINEERING, INC.

JOSHUA MOUNT
325 E. CHICAGO ST., SUITE 500
MILWAUKEE, WI 53202
PHONE: (414) 225-9817
joshua.mount@daarcorp.com

SYLVANIA AIRPORT

MR. ROB MCKAY
SYLVANIA AVIATION SERVICES, INC.
2624 SOUTH SYLVANIA AVENUE
STURTEVANT, WI 53177
PHONE: (847) 445-7817
EMAIL: rmckay@wi.rr.com

EMCS, INC.

BRIAN WILSON
1300 W. CANAL ST., SUITE 200
MILWAUKEE, WI 53233
PHONE: (414) 347-1607
BWilson@emcsinc.com

CANADIAN PACIFIC RAILWAY CO.

MR. JIM KRIEGER, ENGR, PUBLIC WORKS
CANADIAN PACIFIC RAILWAY COMPANY
501 MARQUETTE AVE., SUITE 635
MINNEAPOLIS, MN 55402
PHONE: (612) 904-5994

ORDER OF SECTION 2 DETAIL SHEETS

- GENERAL NOTES
- PROJECT OVERVIEW
- TYPICAL SECTIONS
- CONSTRUCTION DETAILS
 - PLAN DETAILS
 - REMOVAL PLAN
 - EROSION CONTROL
 - TRAFFIC CONTROL
 - ALIGNMENT PLAN

GENERAL NOTES

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

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. THE PLANS REFLECT UTILITIES AS OF SEPTEMBER 2011. UTILITIES INSTALLED OR RELOCATED SINCE THAT TIME ARE NOT REFLECTED.

THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO THE START OF WORK. ANY LOCAL MUNICIPAL UTILITY WHICH IS NOT A MEMBER OF THE DIGGERS HOTLINE MUST BE CONTACTED SEPARATELY.

ALL HOLES OR OPENINGS BELOW SUBGRADE RESULTING FROM ABANDONMENT OR REMOVAL OF EXISTING STRUCTURES SHALL BE FILLED WITH GRANULAR BACKFILL. BACKFILL WILL BE CONSIDERED INCIDENTAL TO THE ABANDONMENT OR REMOVAL ITEM.

INLET AND DISCHARGE ELEVATIONS FOR DRAINAGE STRUCTURES SHOWN ON THE PLAN MAY BE ADJUSTED BY THE ENGINEER TO FIT FIELD CONDITIONS.

EXISTING DRIVEWAYS AND FIELD ENTRANCES SHALL BE RESTORED IN KIND AS DIRECTED BY THE ENGINEER IN THE FIELD AND AT THE LOCATION DETERMINED BY THE ENGINEER.

TEMPORARY STORAGE OF ANY EXCAVATED MATERIAL WILL NOT BE PERMITTED IN WETLANDS.

BROKEN CONCRETE CONTAINING RE-BAR SHALL NOT BE USED AS RIPRAP.

CROSS SECTIONS SHOWN INCLUDE THE THICKNESS OF TOPSOIL WHERE REQUIRED. TOPSOIL SHALL BE REPLACED WITH 4-INCH TYPICAL DEPTH.

TRAFFIC CONTROL DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

REMOVAL OF EROSION CONTROL DEVICES IS INCLUDED IN THE COST OF THEIR RESPECTIVE BID ITEMS.

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

PRIOR TO ORDERING DRAINAGE PIPES AND STRUCTURES, THE CONTRACTOR SHALL VERIFY RELATED DRAINAGE INFORMATION IN THE PLANS AND PROVIDE DOCUMENTATION TO ENGINEER IN ACCORDANCE WITH THE SPECIFICATIONS.

COORDINATE WITH THE RACINE COUNTY PLANNING AND DEVELOPMENT DIRECTOR, JULIE ANDERSON, AT 262-886-8470 TO PERPETUATE SECTION CORNERS 10 DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION OPERATIONS.

INLET PROTECTION IS REQUIRED AT ALL INLETS AS PER DETAIL OR AS DIRECTED BY THE ENGINEER.

FERTILIZER SHALL NOT BE USED NEAR NAVIGABLE WATERWAYS OR WETLANDS.

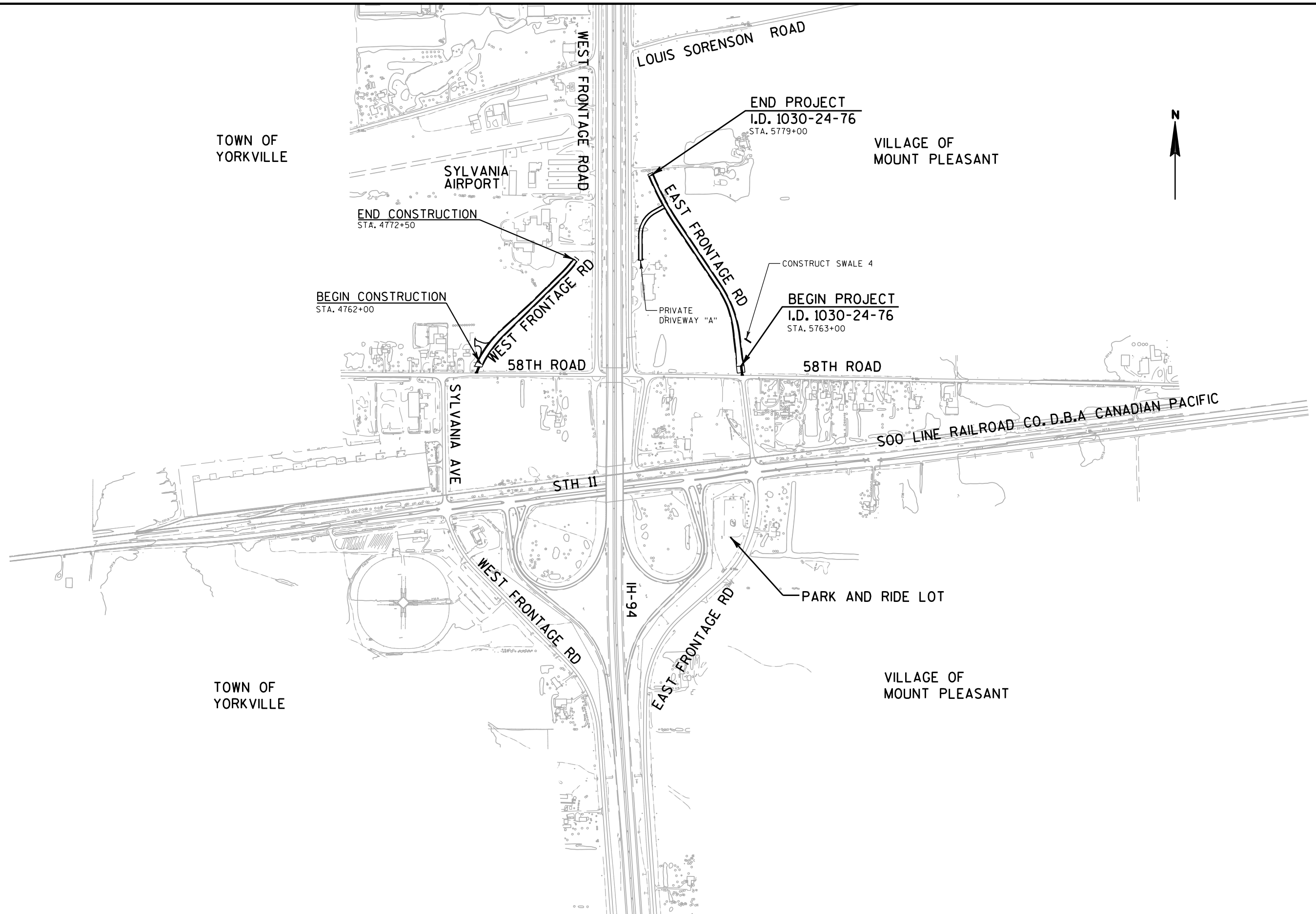
LOCATIONS OF DRAINTILE ON THE PLAN ARE BASED ON AS-BUILT OR PROPERTY OWNER INTERVIEWS. DRAINTILE EXPLORATION ITEM IS TO BE USED TO VERIFY THE EXACT SIZE AND LOCATION.

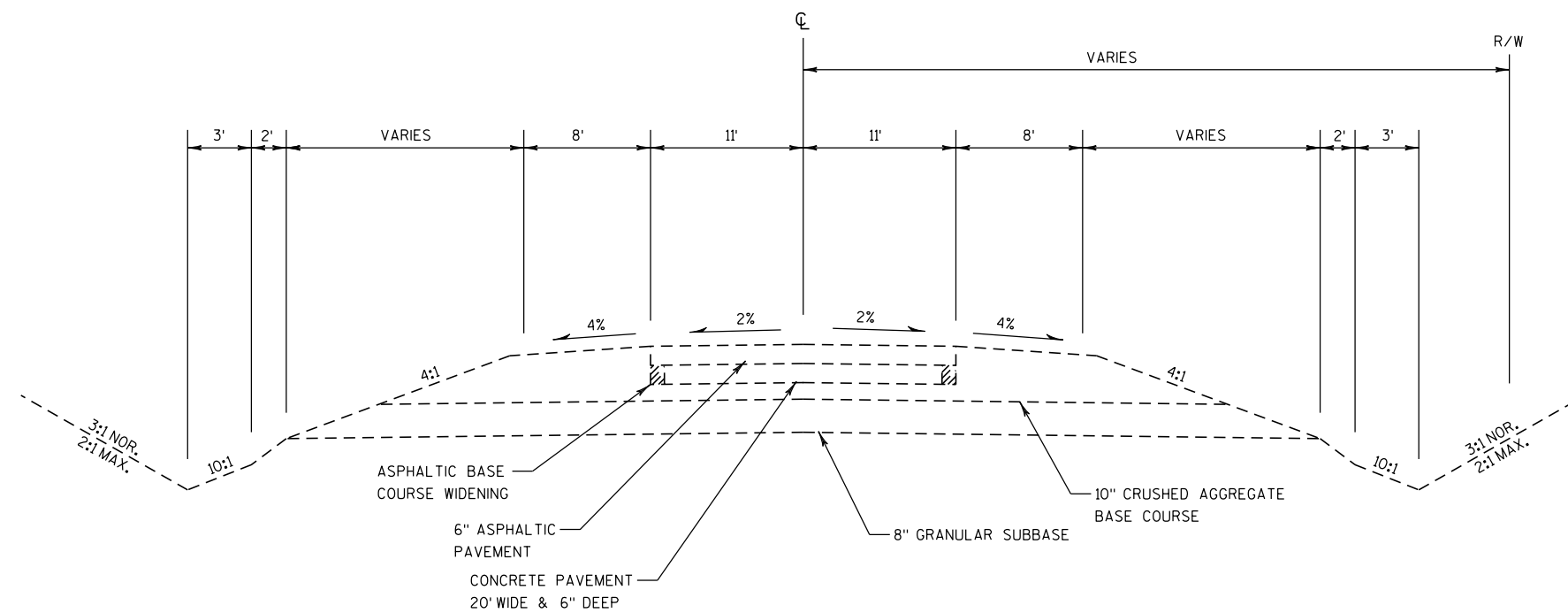
THE BASE AND PAVEMENT AND OTHER ASSOCIATED ITEMS WILL BE CONSTRUCTED UNDER FUTURE PROJECT 1030-24-70 AND 1030-24-74 (BY OTHERS).

USE CLASS II TYPE C EROSION MAT ADJACENT TO DISTURBED AREAS NEXT TO WETLANDS. DO NOT INSTALL CLASS II TYPE C EROSION CONTROL MAT IN WATER.

STANDARD ABBREVIATIONS

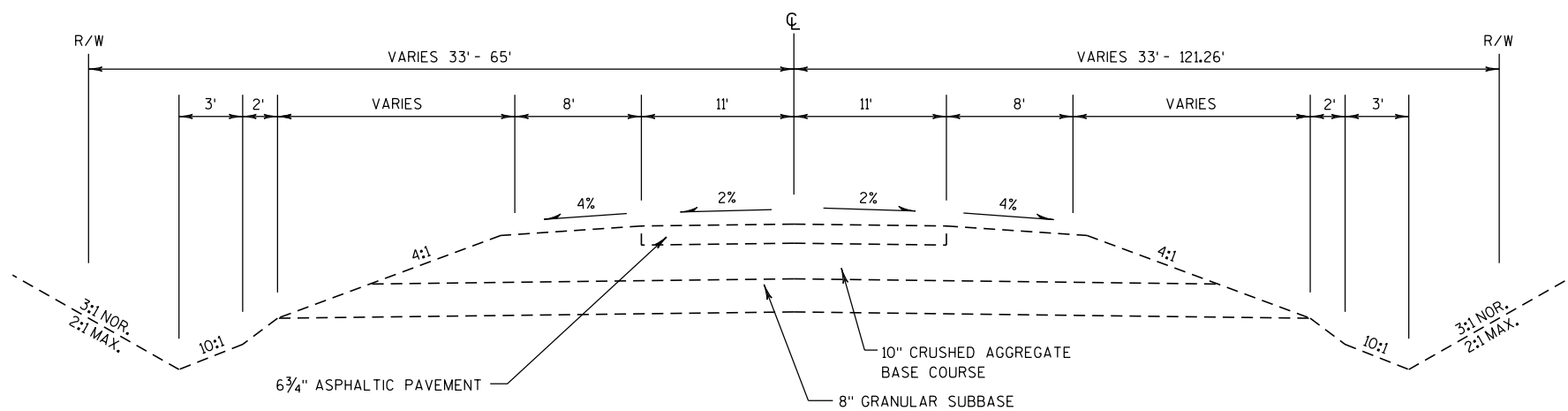
AECPRC	APRON ENDWALL CULVERT PIPE REINFORCED CONCRETE
AECPRCHE	APRON ENDWALL CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL
AECPSS	APRON ENDWALL CULVERT PIPE SLOPED SECTION
AEW	APRON END WALL
AGG	AGGREGATE
ASPH	ASPHALT
BAD	BASE AGGREGATE DENSE
B/C	BACK OF CURB
BM	BENCH MARK
C&G	CURB AND GUTTER
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
EBS	EXCAVATION BELOW SUBGRADE
EFR	EAST FRONTAGE ROAD
EL	ELEVATION
FE	FIELD ENTRANCE
HMA	HOT MIX ASPHALT
INV	INVERT
L	LENGTH OF CURVE
LHF	LEFT HAND FORWARD
LT	LEFT
MID	MIDDLE OF RADIUS
MIN	MINIMUM
M/L	MATCHLINE
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
REQ'D	REQUIRED
RHF	RIGHT HAND FORWARD
RO	RUN OFF LENGTH
RT	RIGHT
SALV	SALVAGED
SB	SOUTHBOUND
SDD	STANDARD DETAIL DRAWING
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





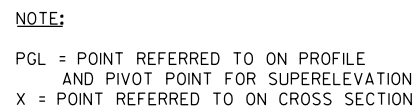
TYPICAL EXISTING SECTION
EAST FRONTAGE ROAD

STA. 5763+00 TO STA. 5779+00



TYPICAL EXISTING SECTION
WEST FRONTAGE ROAD
STA. 4762+00 TO STA. 4772+50

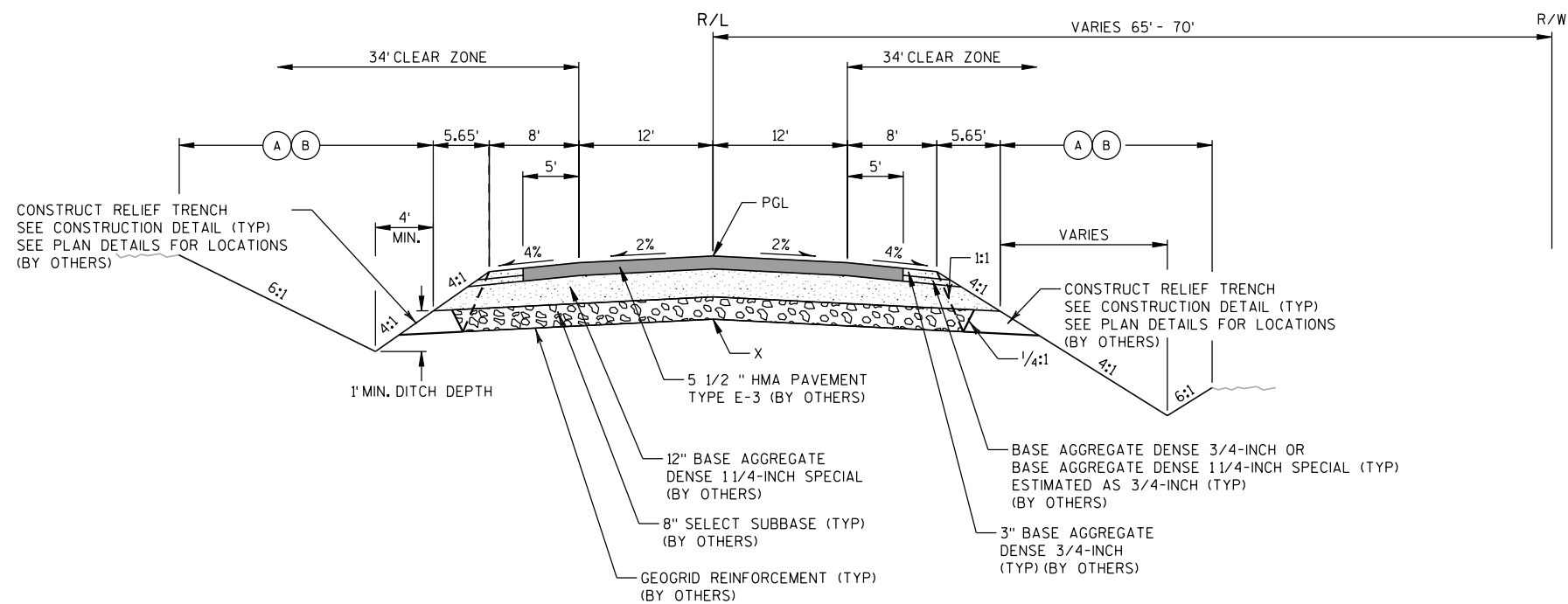
2



THE PAVEMENT STRUCTURE (5 1/2" HMA, 12" BASE AGGREGATE, 8" SELECT SUBBASE AND GEOGRID REINFORCEMENT) & BASE AGGREGATE SHOULDERS WILL BE CONSTRUCTED BY OTHERS UNDER PROJECT ID 1030-24-70, EAST FRONTAGE ROAD.



WISDOT/CADDS SHEET 42



TYPICAL FINISHED SECTION
EAST FRONTAGE ROAD
 STA 5771+00 TO STA 5773+50

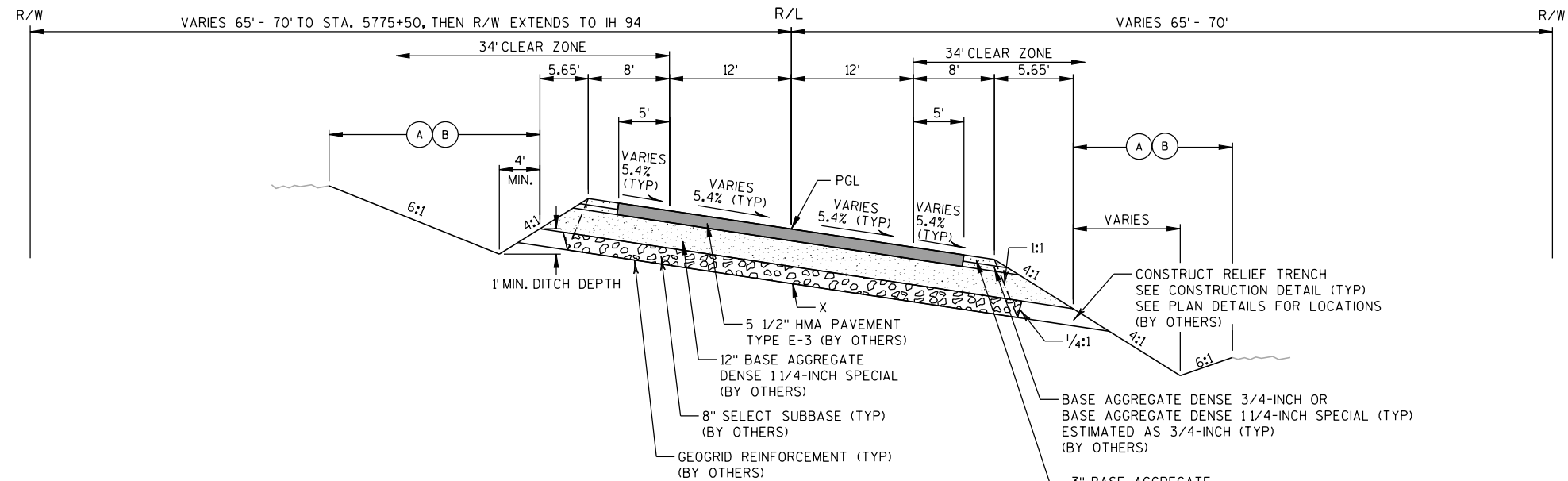
NOTE:

PGL = POINT REFERRED TO ON PROFILE
 AND PIVOT POINT FOR SUPERELEVATION
 X = POINT REFERRED TO ON CROSS SECTION

LEGEND:

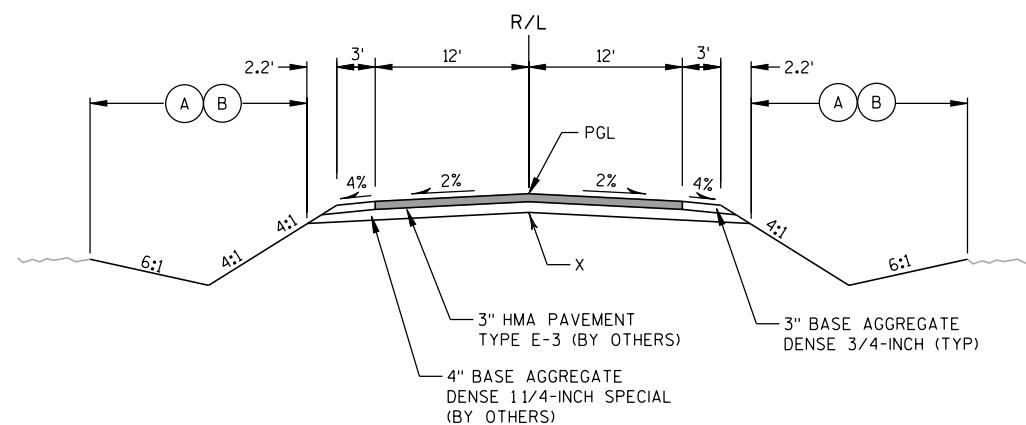
- (A) SEEDING MIXTURE NO. 20
 AND FERTILIZER TYPE B
 (B) 4" TOPSOIL
 AND MULCHING OR EMAT

THE PAVEMENT STRUCTURE (5 1/2" HMA, 12" BASE AGGREGATE, 8" SELECT SUBBASE AND GEOGRID REINFORCEMENT) & BASE AGGREGATE SHOULDERS WILL BY CONSTRUCTED BY OTHERS UNDER PROJECT ID 1030-24-70, EAST FRONTAGE ROAD.



TYPICAL FINISHED SECTION
SUPERELEVATED SECTION
EAST FRONTAGE ROAD
STA 5773+50 TO STA 5779+00

THE PAVEMENT STRUCTURE (5 1/2" HMA, 12" BASE AGGREGATE, 8" SELECT SUBBASE AND GEOGRID REINFORCEMENT) & BASE AGGREGATE SHOULDERS WILL BY CONSTRUCTED BY OTHERS UNDER PROJECT ID 1030-24-70, EAST FRONTAGE ROAD.



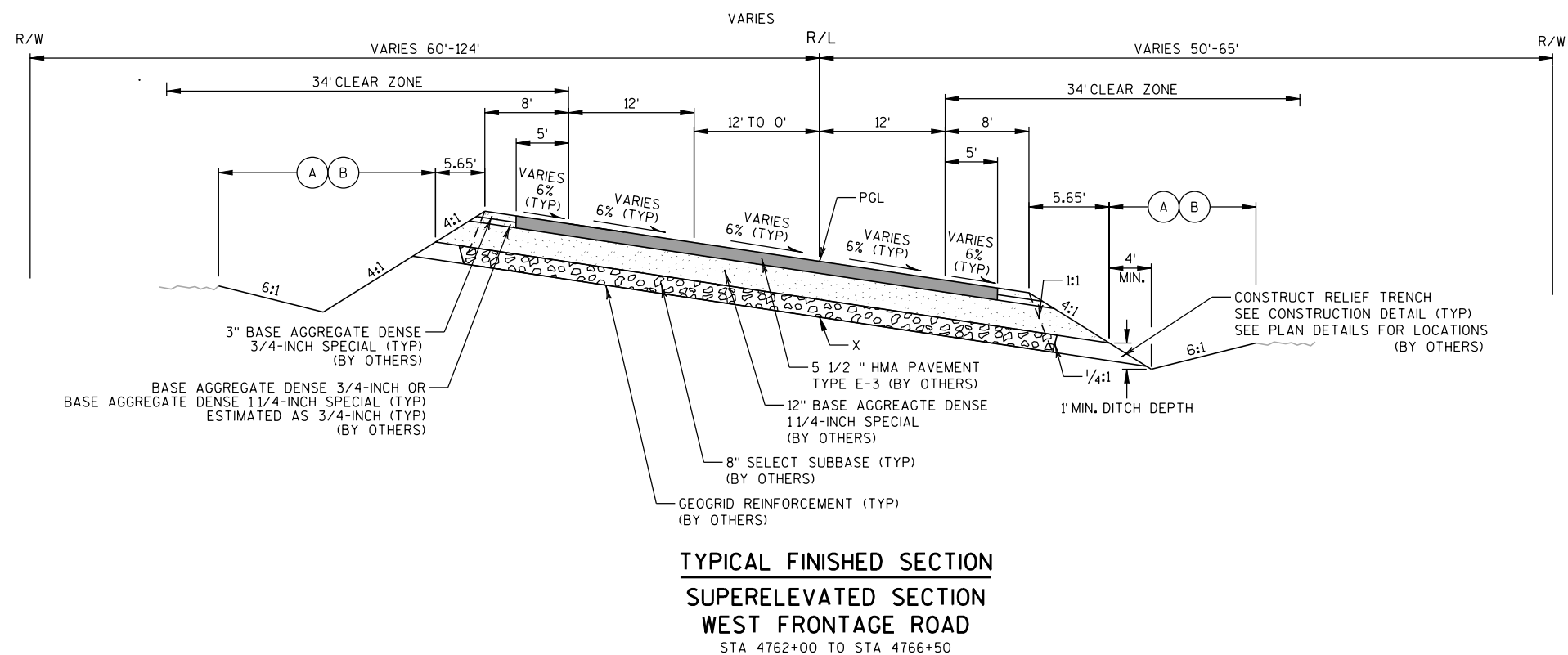
TYPICAL FINISHED SECTION
PRIVATE DWY "A"
STA 15+00 TO STA 20+00

NOTE:

PGL = POINT REFERRED TO ON PROFILE
AND PIVOT POINT FOR SUPERELEVATION
X = POINT REFERRED TO ON CROSS SECTION

LEGEND:

- (A) SEEDING MIXTURE NO. 20
AND FERTILIZER TYPE B
- (B) 4" TOPSOIL
AND MULCHING

**NOTE:**

PGL = POINT REFERRED TO ON PROFILE
AND PIVOT POINT FOR SUPERELEVATION
X = POINT REFERRED TO ON CROSS SECTION

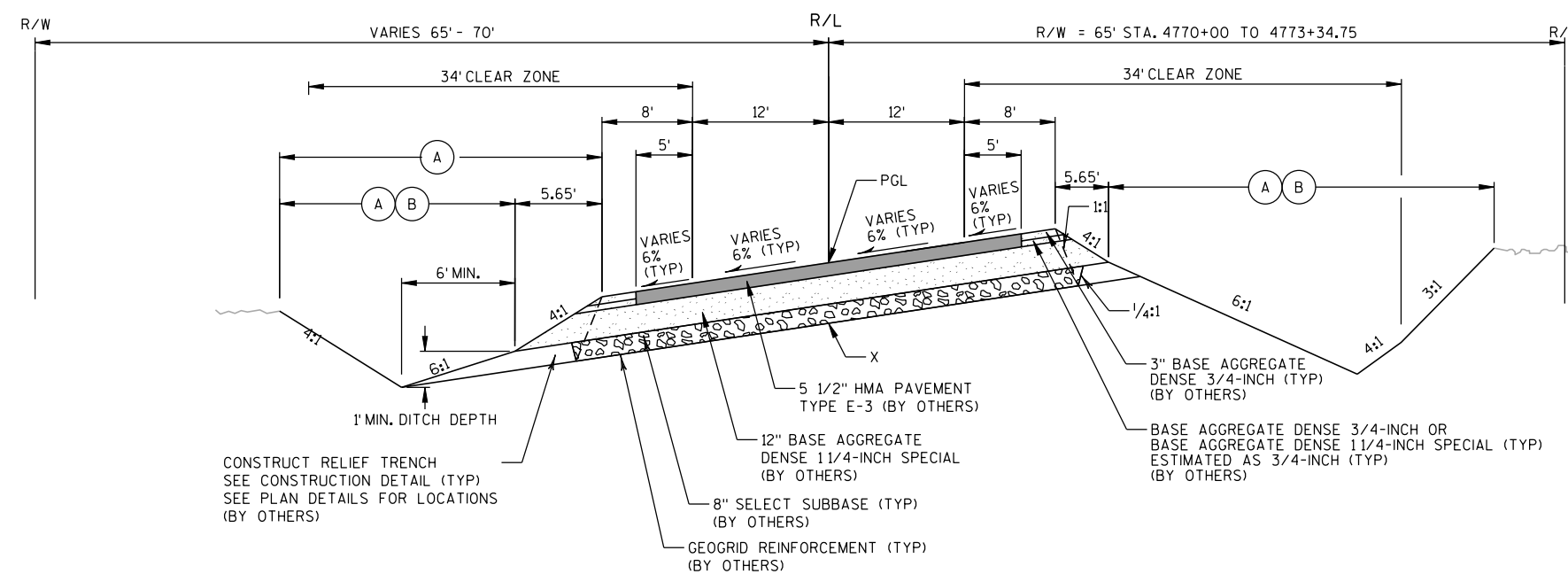
LEGEND:

- (A) SEEDING MIXTURE NO. 20
AND FERTILIZER TYPE B
- (B) 4" TOPSOIL
AND MULCHING

THE PAVEMENT STRUCTURE (5 1/2" HMA, 12" BASE AGGREGATE, 8" SELECT SUBBASE AND GEOGRID REINFORCEMENT) & BASE AGGREGATE SHOULDERS WILL BY CONSTRUCTED BY OTHERS UNDER PROJECT ID 1030-24-70, EAST FRONTAGE ROAD.



THE PAVEMENT STRUCTURE (5 1/2" HMA, 12" BASE AGGREGATE, 8" SELECT SUBBASE AND GEOGRID REINFORCEMENT) & BASE AGGREGATE SHOULDERS WILL BY CONSTRUCTED BY OTHERS UNDER PROJECT ID 1030-24-70, EAST FRONTAGE ROAD.



**TYPICAL FINISHED SECTION
SUPERELEVATED SECTION
WEST FRONTAGE ROAD**
STA 4770+00 TO STA 4772+50

NOTE:

PGL = POINT REFERRED TO ON PROFILE
AND PIVOT POINT FOR SUPERELEVATION
X = POINT REFERRED TO ON CROSS SECTION

LEGEND:

- (A) SEEDING MIXTURE NO. 20
AND FERTILIZER TYPE B
- (B) 4" TOPSOIL
AND MULCHING

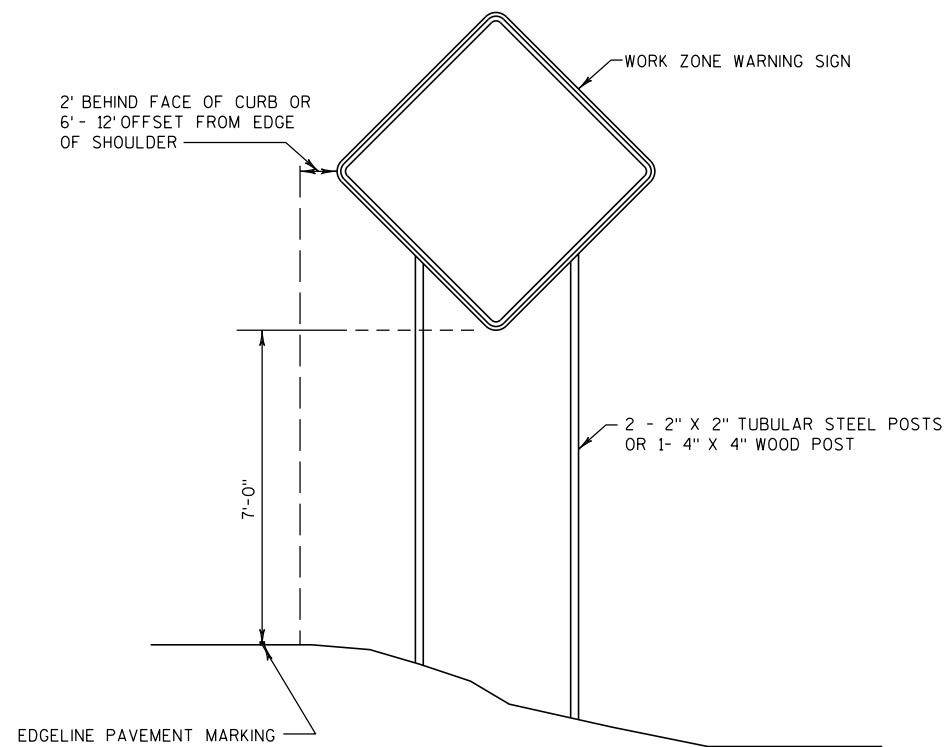
THE PAVEMENT STRUCTURE (5 1/2" HMA, 12" BASE AGGREGATE, 8" SELECT SUBBASE AND
GEOGRID REINFORCEMENT) & BASE AGGREGATE SHOULDERS WILL BY CONSTRUCTED BY
OTHERS UNDER PROJECT ID 1030-24-70, EAST FRONTAGE ROAD.

RUNOFF COEFFICIENT TABLE

	HYDROLOGIC SOIL GROUP											
	A			B			C			D		
	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)		
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56
MEDIAN STRIP- TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40
SIDE SLOPE- TURF			.25 .32			.27 .34			.28 .36			.30 .38
PAVEMENT:												
ASPHALT						.70 - .95						
CONCRETE						.80 - .95						
BRICK						.70 - .80						
DRIVES, WALKS						.75 - .85						
ROOFS						.75 - .95						
GRAVEL ROADS, SHOULDERS						.40 - .60						

TOTAL PROJECT AREA = 145.79 ACRES (STH 11 INTERCHANGE R/W AREA)
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 5.09 ACRES (ID 1030-24-76 DISTURBED AREA)

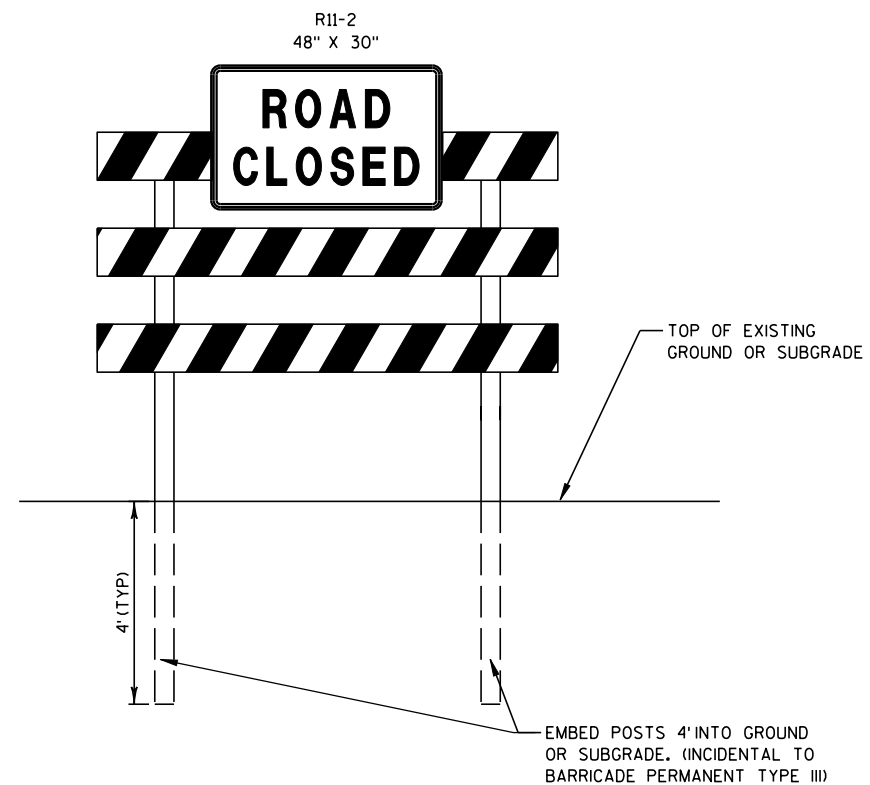
090805



**TYPICAL TEMPORARY TRAFFIC CONTROL SIGN
MOUNTING ON FIXED SUPPORT**

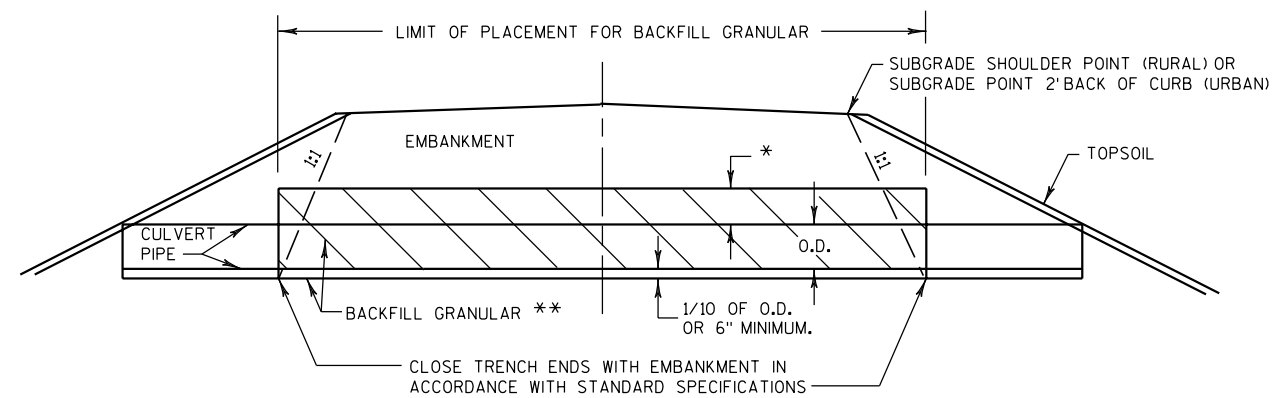
LONG TERM
7 DAYS OR MORE

101105



**TRAFFIC CONTROL BARRICADE PERMANENT TYPE III
ANCHORING DETAIL**

090401(MOD)



O.D. = OUTSIDE DIAMETER

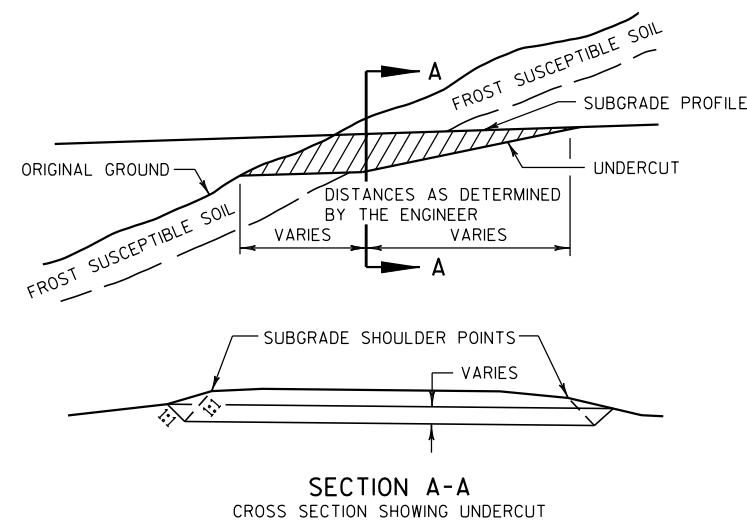
* CULVERT PIPE IN NEW EMBANKMENT = 1' MIN

* CULVERT PIPE IN EXISTING EMBANKMENT = TO EXISTING GROUND ELEVATION

** INCIDENTAL TO CULVERT PIPE

CULVERT BACKFILL DETAIL

100813

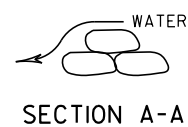
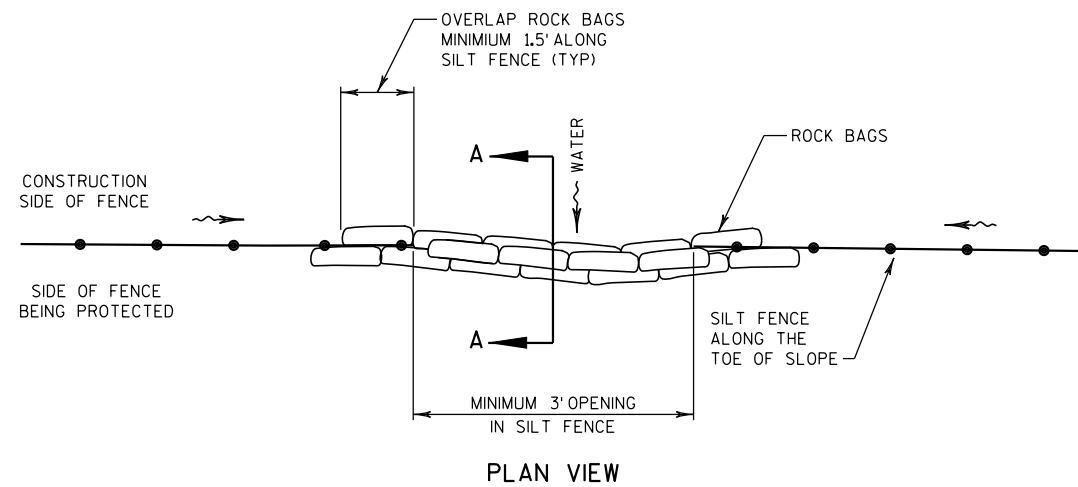


NOTES

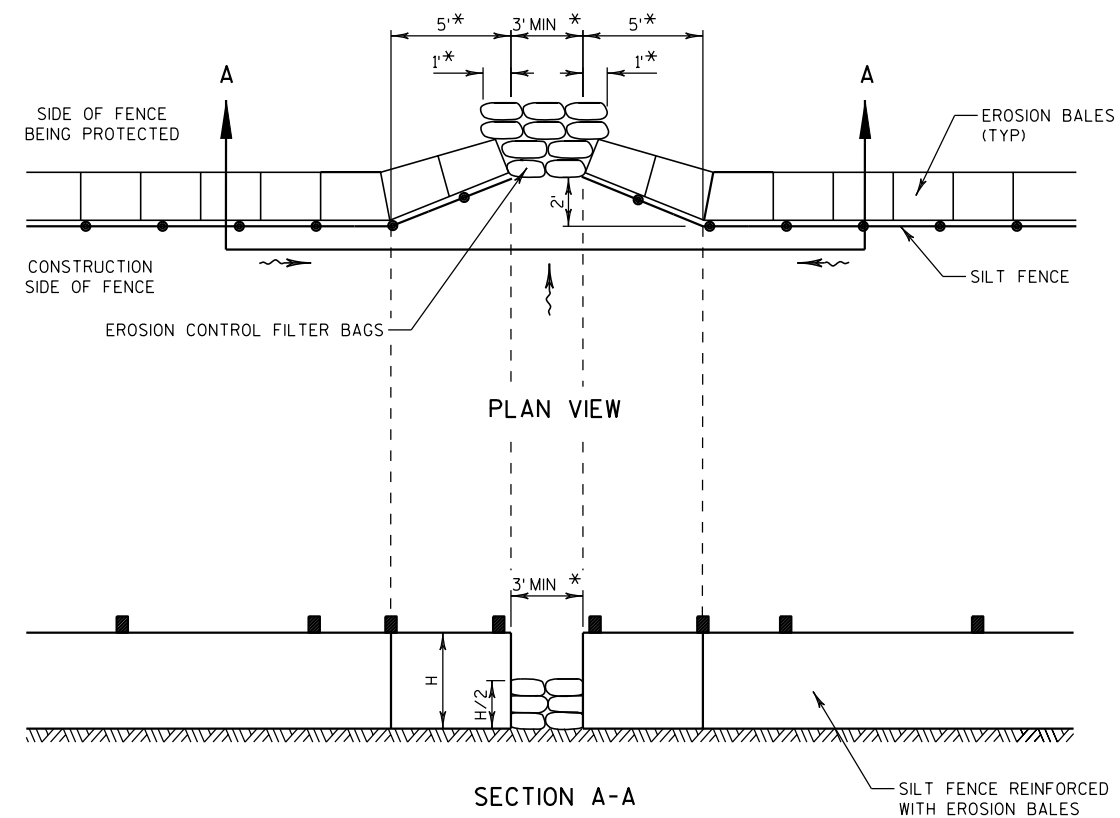
1. EXACT LOCATIONS AND EXTENT OF EBS SECTIONS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
2. EBS AREA TO BE BACKFILLED WITH MATERIAL ACCEPTABLE TO THE ENGINEER.
3. BACKFILL MUST BE HOMOGENEOUS WITH ADJOINING FILL MATERIAL.
4. THE FILL SECTION WITHIN 100' OF THE MOUTH OF THE CUT MUST BE KEPT 2' BELOW SUBGRADE UNTIL EBS IS COMPLETED.

EXCAVATION BELOW SUBGRADE AT CUTS

100813

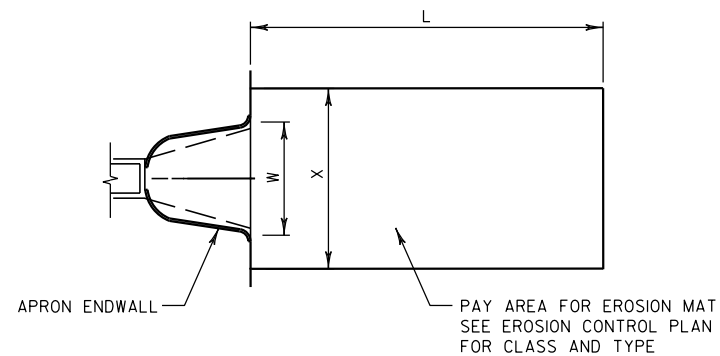


SILT FENCE DRAINAGE OUTLET, ROCK BAGS



* DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS
AS DIRECTED BY THE ENGINEER.

SILT FENCE DRAINAGE OUTLET, EROSION CONTROL FILTER BAGS
(FOR USE IN ENVIRONMENTALLY SENSITIVE AREAS)



W = WIDTH OF APRON ENDWALL

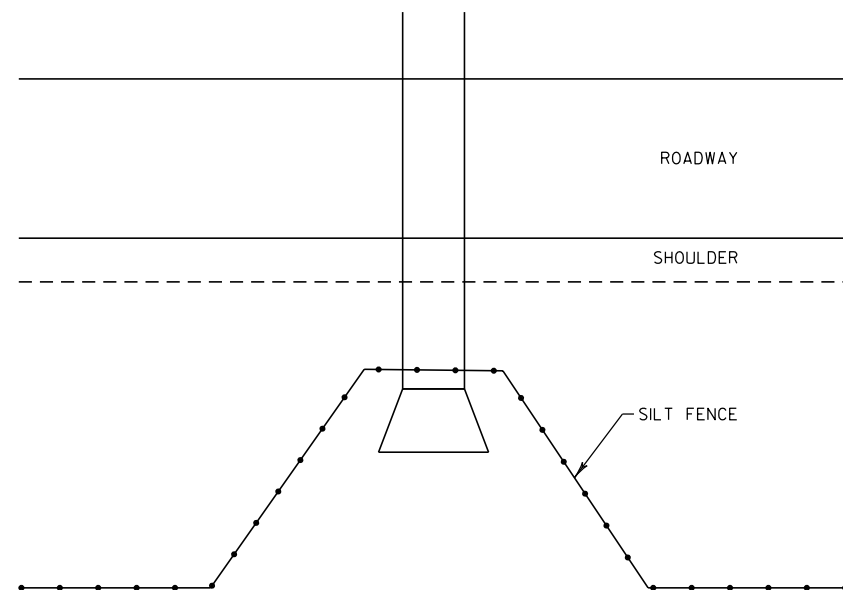
L = 3 x W (NORMAL) OR 10' (MINIMUM) OR
AS INDICATED IN THE PLANS OR
AS DIRECTED BY THE ENGINEER.

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

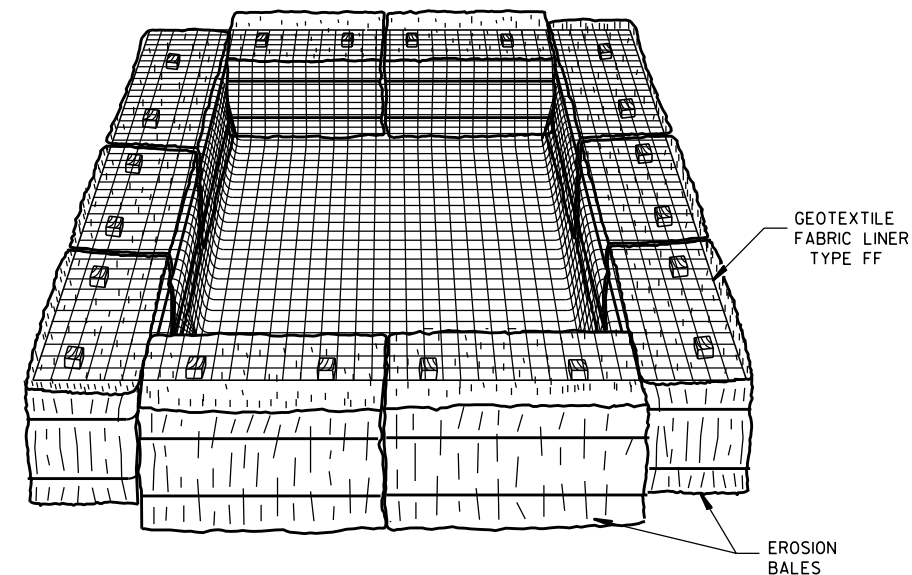
100813



NOTE
SEE SILT FENCE SDD FOR ADDITIONAL INFORMATION.

TYPICAL SILT FENCE DETAIL AT PIPE INLET

100902



TEMPORARY SETTLING BASIN

(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.

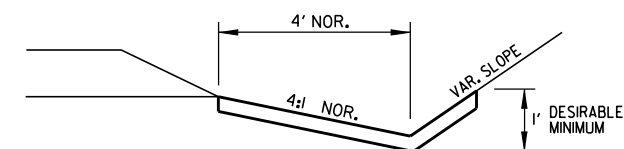
$\frac{800 \text{ C.F.}}{1.5 \text{ FT.}} = 533 \text{ S.F.}$

USE A 20 FT. X 27 FT. BASIN

NOTES:

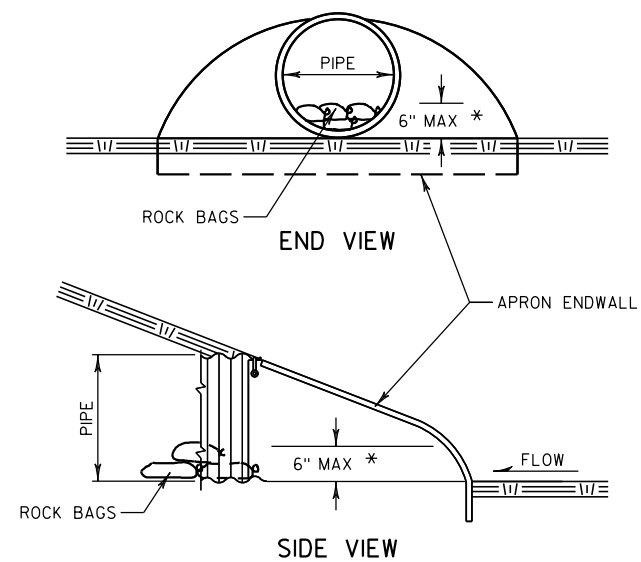
1. CONTRACTOR TO PUMP WATER FROM EXCAVATION TO BASIN PRIOR TO DISCHARGING TO THE WATERWAY.
2. BASIN TO BE KEPT LESS THAN 10% FULL OF SEDIMENT. GEOTEXTILE FABRIC AND SEDIMENTS TO BE DISPOSED BY THE CONTRACTOR OFF OF THE PROJECT SITE.
3. TEMPORARY SETTLING BASIN TO BE PAID FOR AS EROSION BALES AND GEOTEXTILE FABRIC TYPE FF.

081230



EROSION MAT DETAIL FOR DITCHES

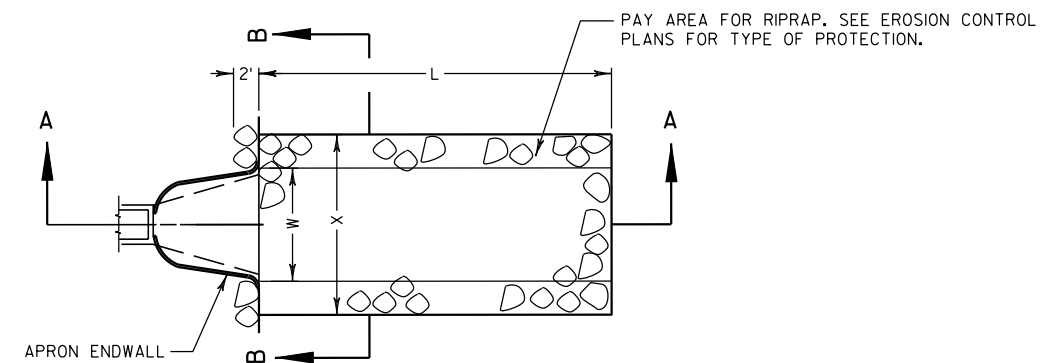
081231



* OR AS DIRECTED BY THE ENGINEER

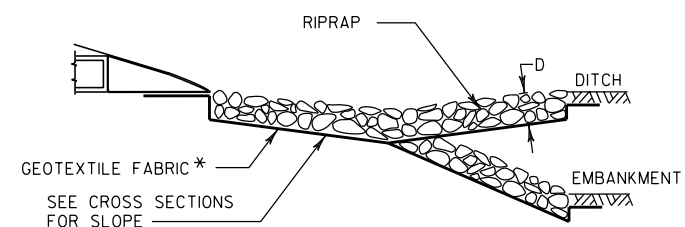
CULVERT PIPE CHECK

100813



PLAN VIEW

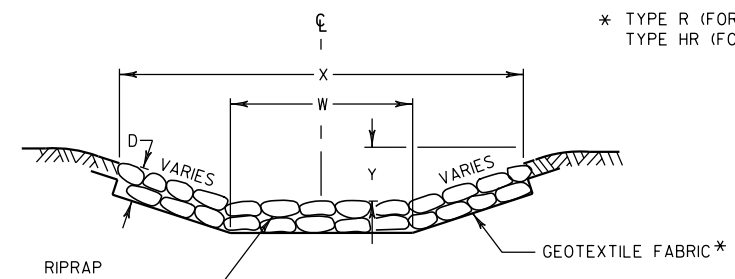
L = 3 x W (NOR) OR 10' MIN
OR AS INDICATED IN THE PLANS
OR AS DIRECTED BY THE ENGINEER



SECTION A-A

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)

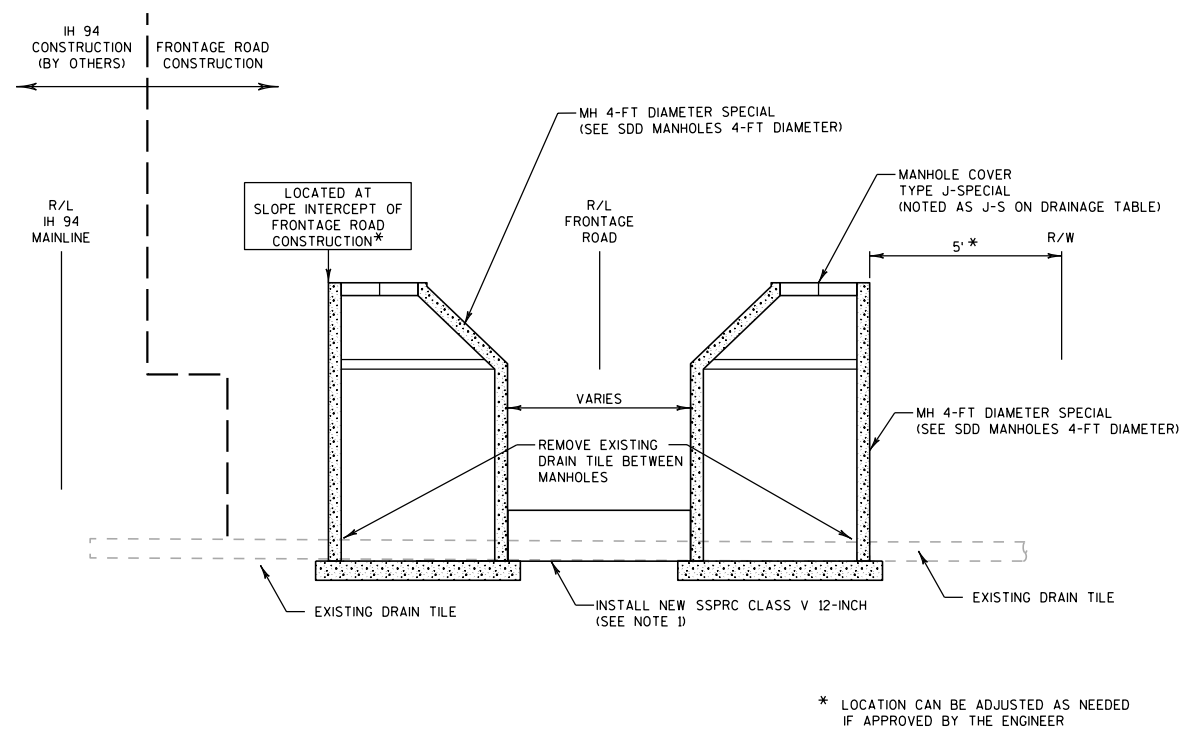


SECTION B-B

RIPRAP AND GEOTEXTILE FABRIC DETAIL AT APRON ENDWALLS

SEE EROSION CONTROL PLAN FOR LOCATIONS

100914(MOD)

**STAGING****1. FRONTAGE ROAD CONSTRUCTION:**

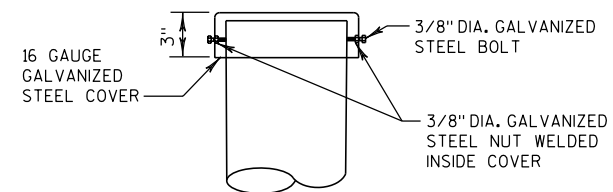
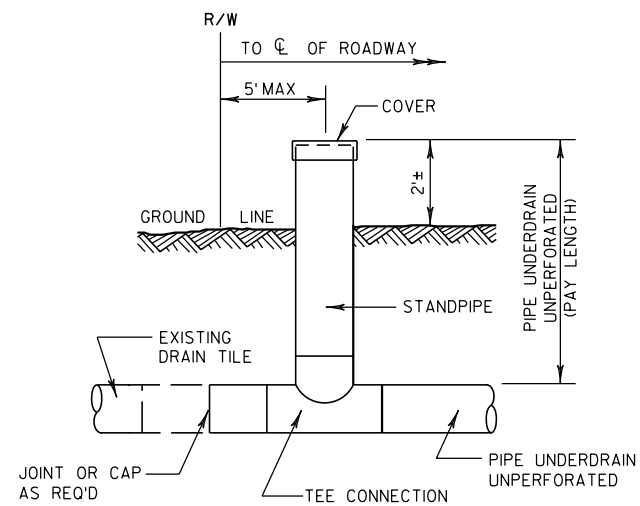
CONSTRUCT MANHOLE 4-FT DIAMETER SPECIAL.
CONNECT EXISTING TILE TO MANHOLE. REPLACE
EXISTING TILE WITH SSPRC CLASS V 12-INCH
BETWEEN MANHOLES.

NOTES

1. IF EXISTING DRAIN TILE IS LARGER THAN 12", MATCH THE EXISTING SIZE IN THE FIELD.
2. GRADING AT MANHOLES WITHIN THE CLEAR ZONE OF THE FRONTAGE ROADS AND MAINLINE IS TO BE FLUSH WITH TOP OF THE MANHOLE.

DRAIN TILE CONFIGURATION
(FOR FRONTAGE ROAD CROSSINGS)

120814 (MOD)

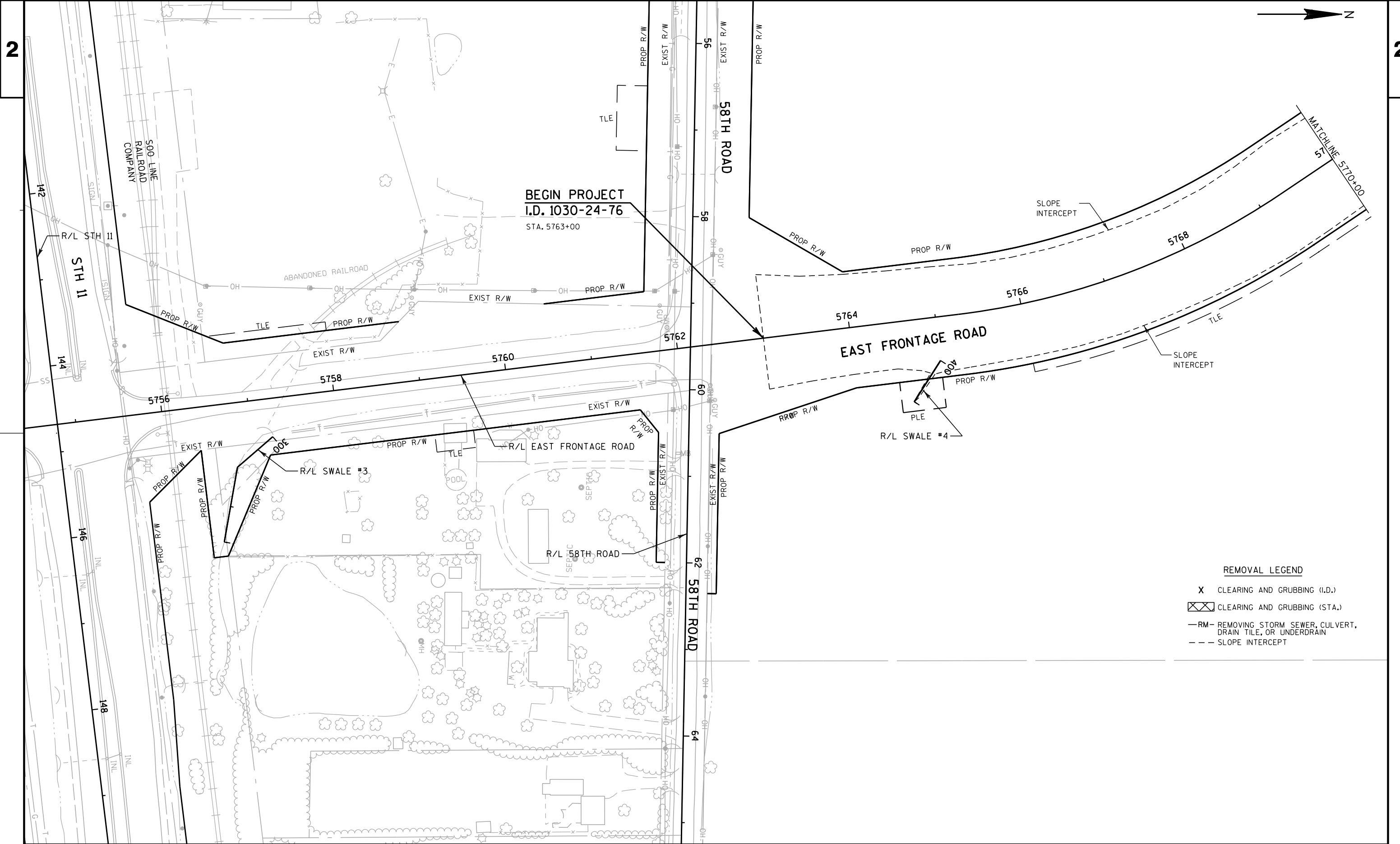
**NOTE**

THE COST OF FURNISHING AND INSTALLING THE CONNECTION TO THE UNDERDRAIN AND THE COVER SHALL BE CONSIDERED INCIDENTAL TO THE ITEM PIPE UNDERDRAIN, UNPERFORATED.

INSPECTION STANDPIPE AIR VENT

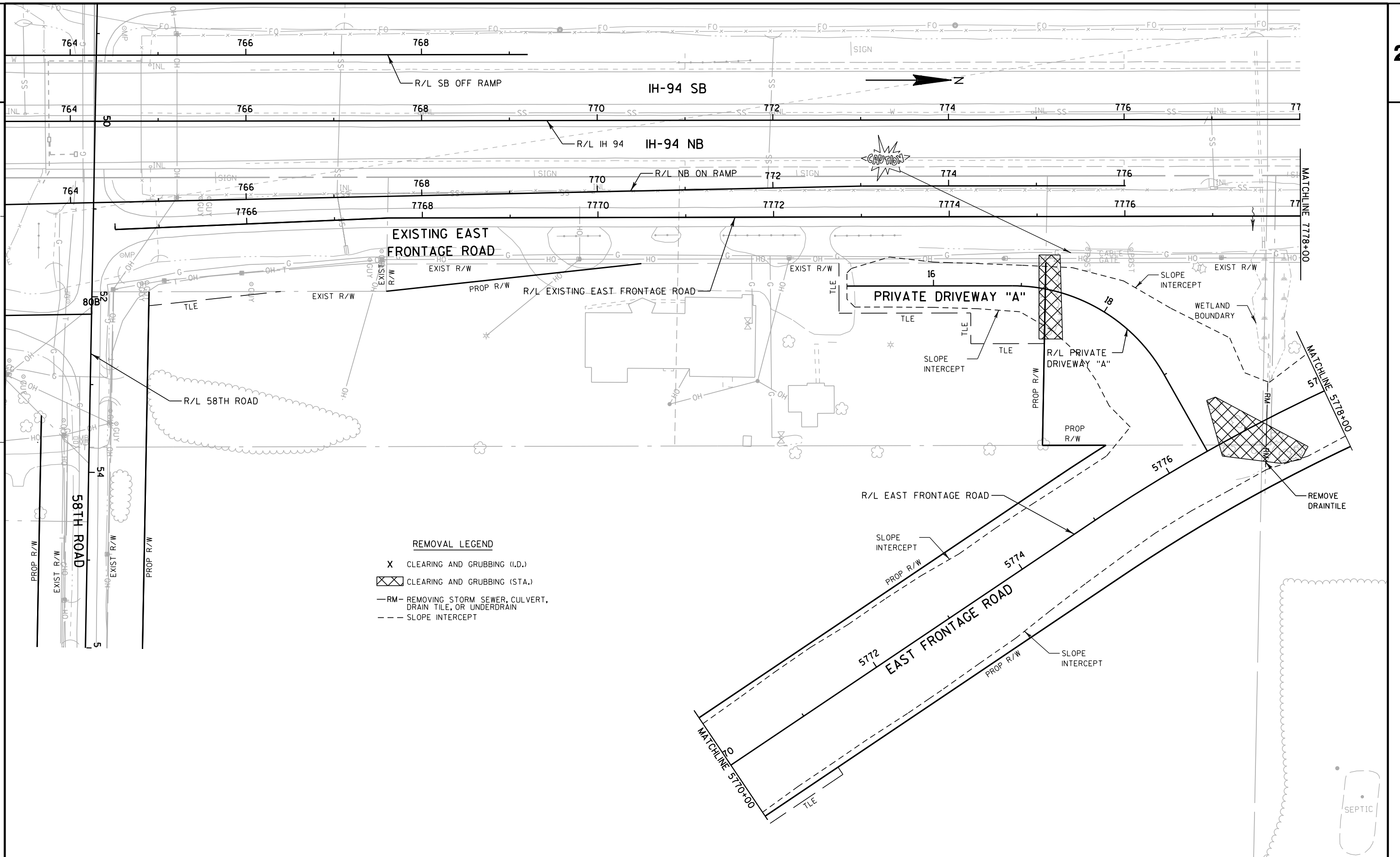
FOR DRAIN TILE

110311



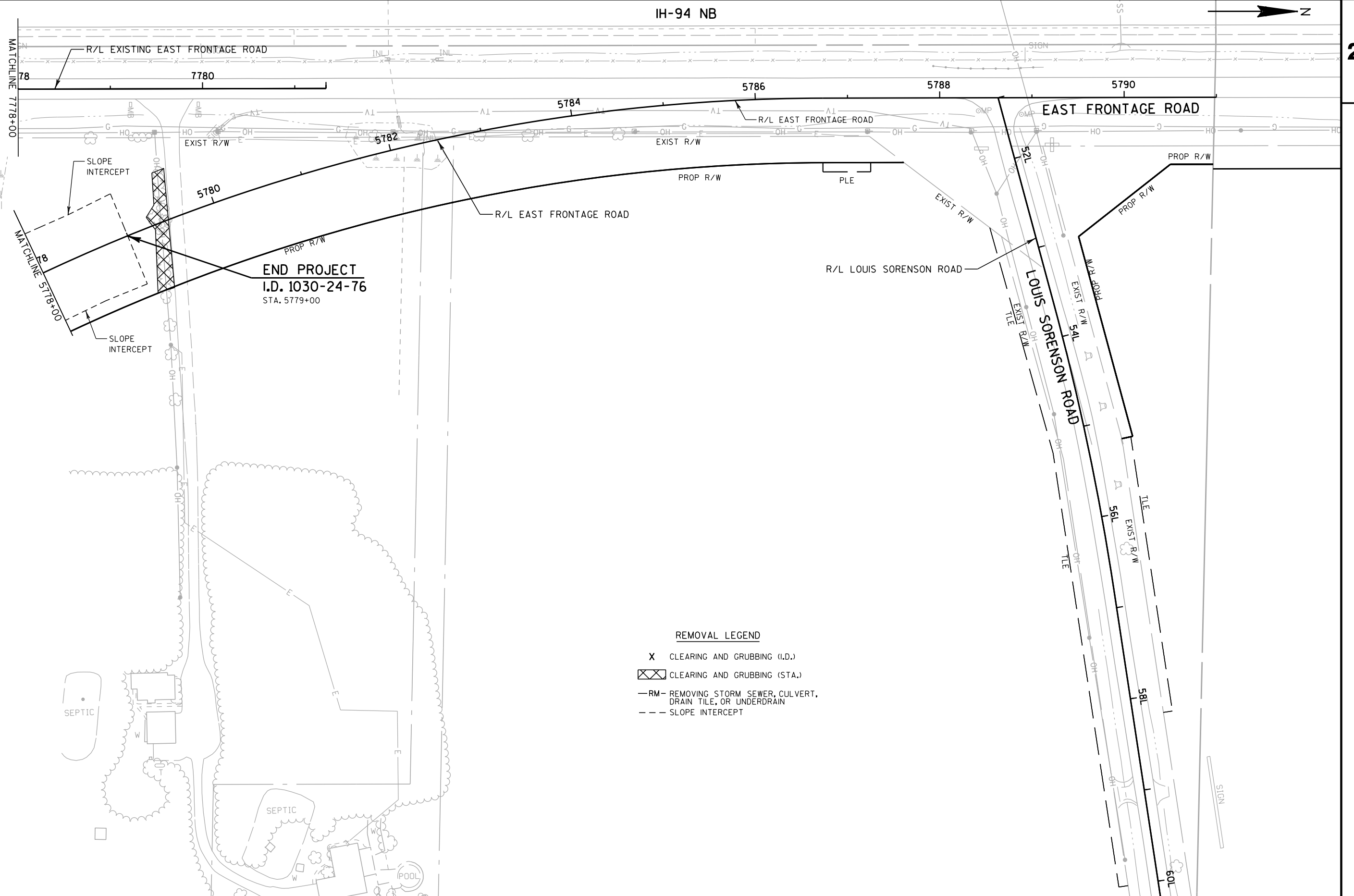
2

2



2

2



PROJECT NO:1030-24-76

HWY: IH 94

COUNTY: RACINE

REMOVAL PLAN: EAST FRONTAGE ROAD GRADING

SHEET

E

FILE NAME : Z:\Racine\CADDS\13\13_Grading\CDS\021103_RM.dgn

PLOT DATE : 10/23/2012

PLOT BY : b.jw

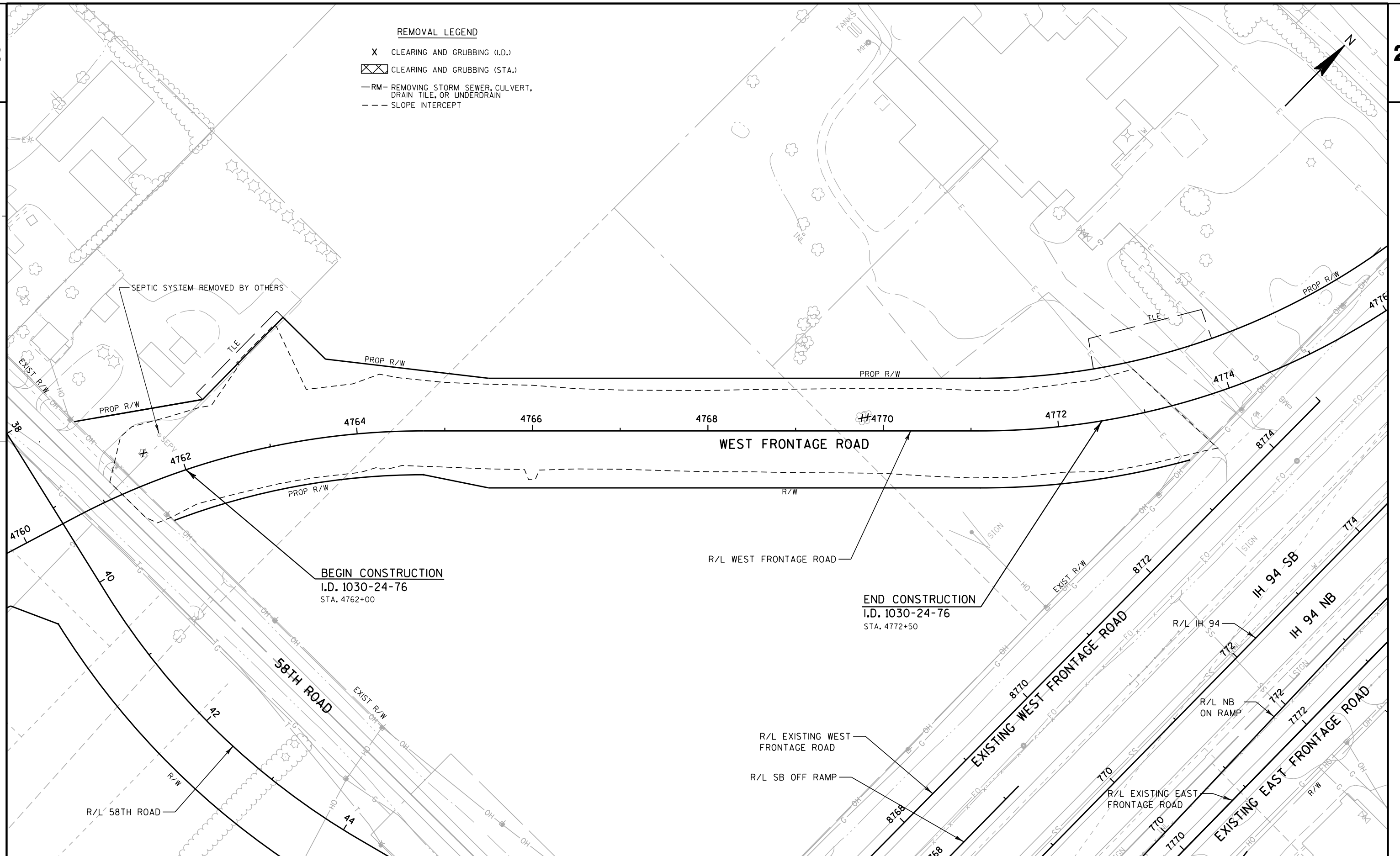
PLOT NAME :

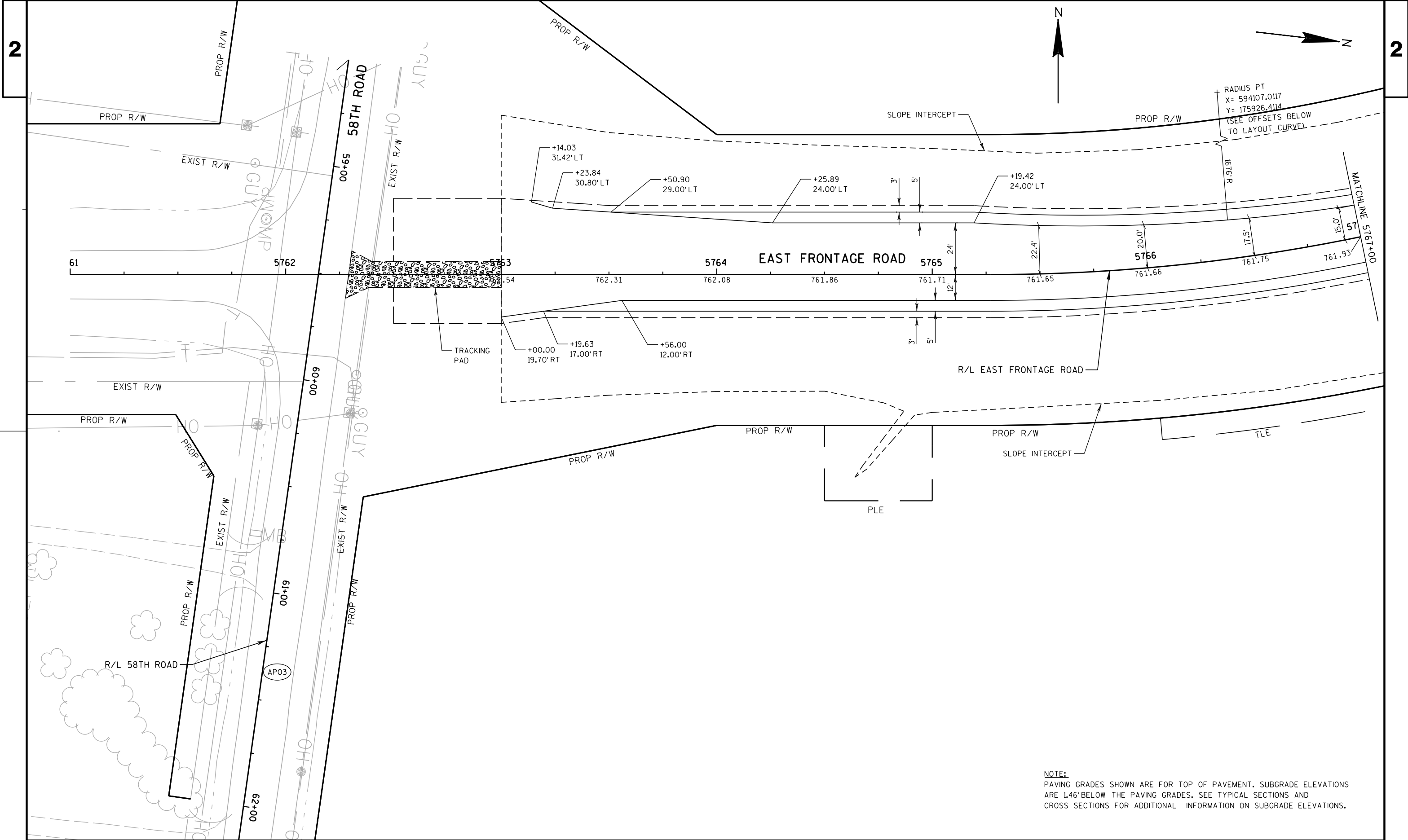
PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

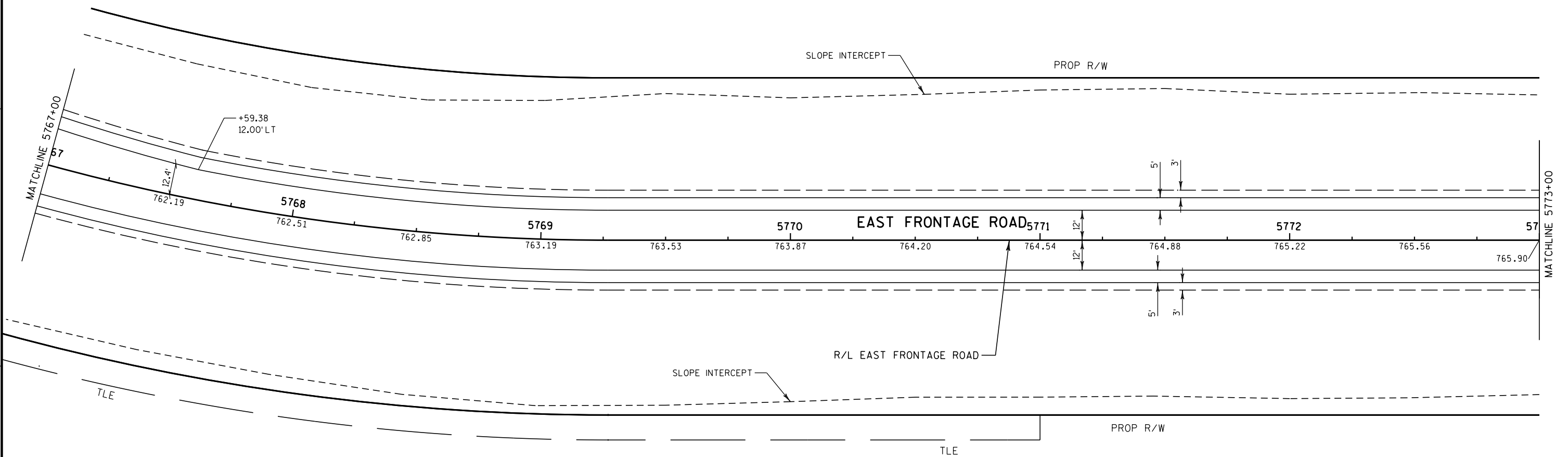
REMOVAL LEGEND

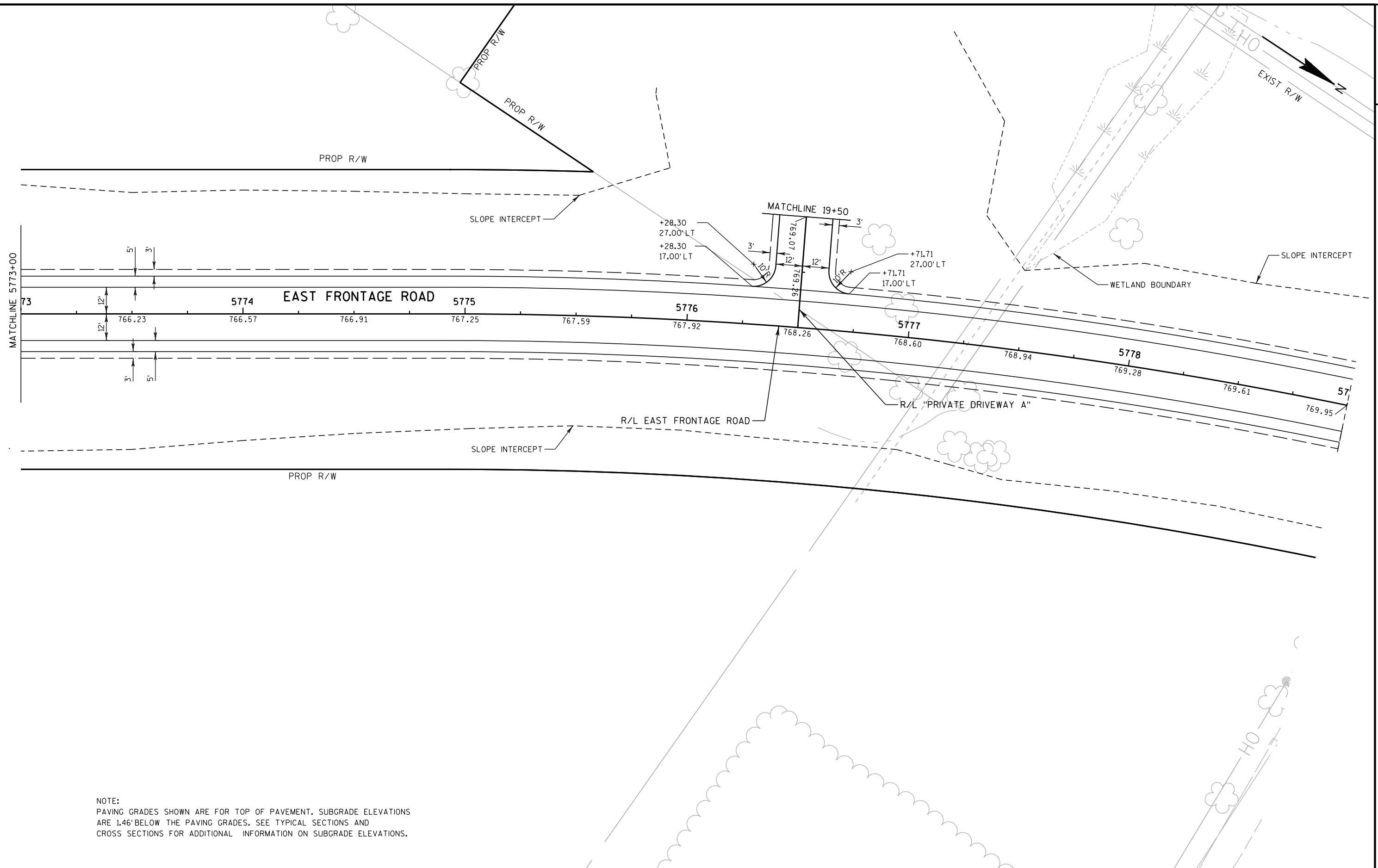
- X CLEARING AND GRUBBING (I.D.)
[Hatched Box] CLEARING AND GRUBBING (STA.)
—RM— REMOVING STORM SEWER, CULVERT,
DRAIN TILE, OR UNDERDRAIN
--- SLOPE INTERCEPT



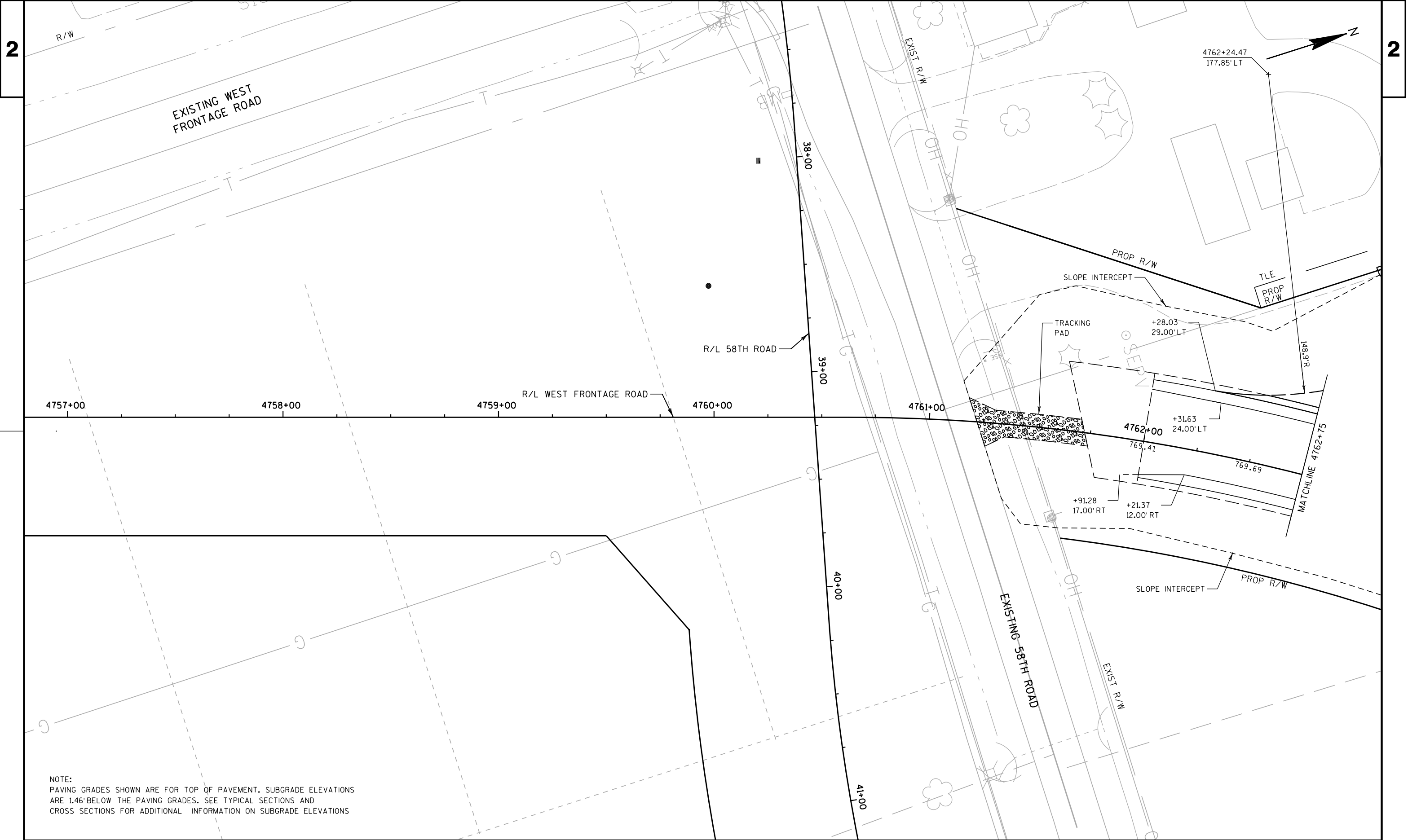


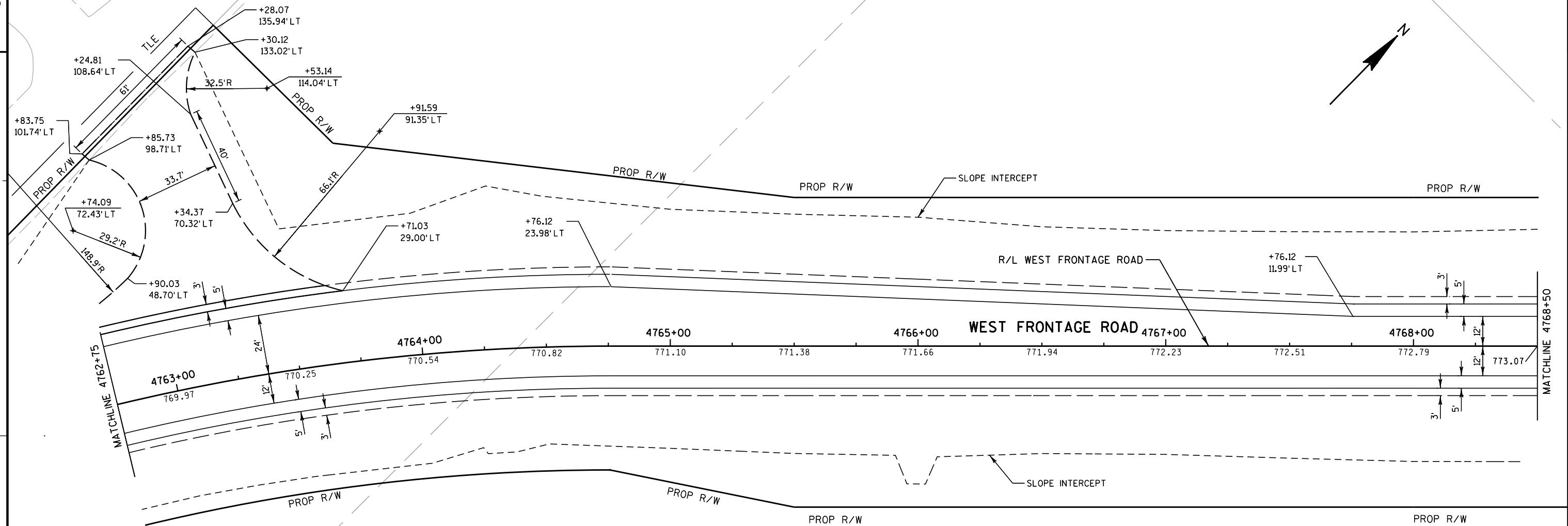
NOTE:
PAVING GRADES SHOWN ARE FOR TOP OF PAVEMENT. SUBGRADE ELEVATIONS ARE 1.46' BELOW THE PAVING GRADES. SEE TYPICAL SECTIONS AND CROSS SECTIONS FOR ADDITIONAL INFORMATION ON SUBGRADE ELEVATIONS.











NOTE:
PAVING GRADES SHOWN ARE FOR TOP OF PAVEMENT. SUBGRADE ELEVATIONS
ARE 1.46' BELOW THE PAVING GRADES. SEE TYPICAL SECTIONS AND
CROSS SECTIONS FOR ADDITIONAL INFORMATION ON SUBGRADE ELEVATIONS

FOR THE DRIVEWAY AT STA 4763+25 LT, ALLOW FOR 6-INCHES OF BASE
AGG TO BE PLACED ON THE DRIVEWAY UNDER FUTURE PROJECT 1030-24-74
(BY OTHERS).

MATCHLINE 4768+50

PROP R/W

R/L WEST FRONTAGE ROAD

SLOPE INTERCEPT

4769+00

4770+00

4771+00

4772+00

WEST FRONTAGE ROAD

4773+00

4774+00

3'
5'
12'
12'
3'
5'

773.07

773.35

773.63

773.92

774.20

774.48

774.76

775.04

775.30

775.46

775.50

775.43

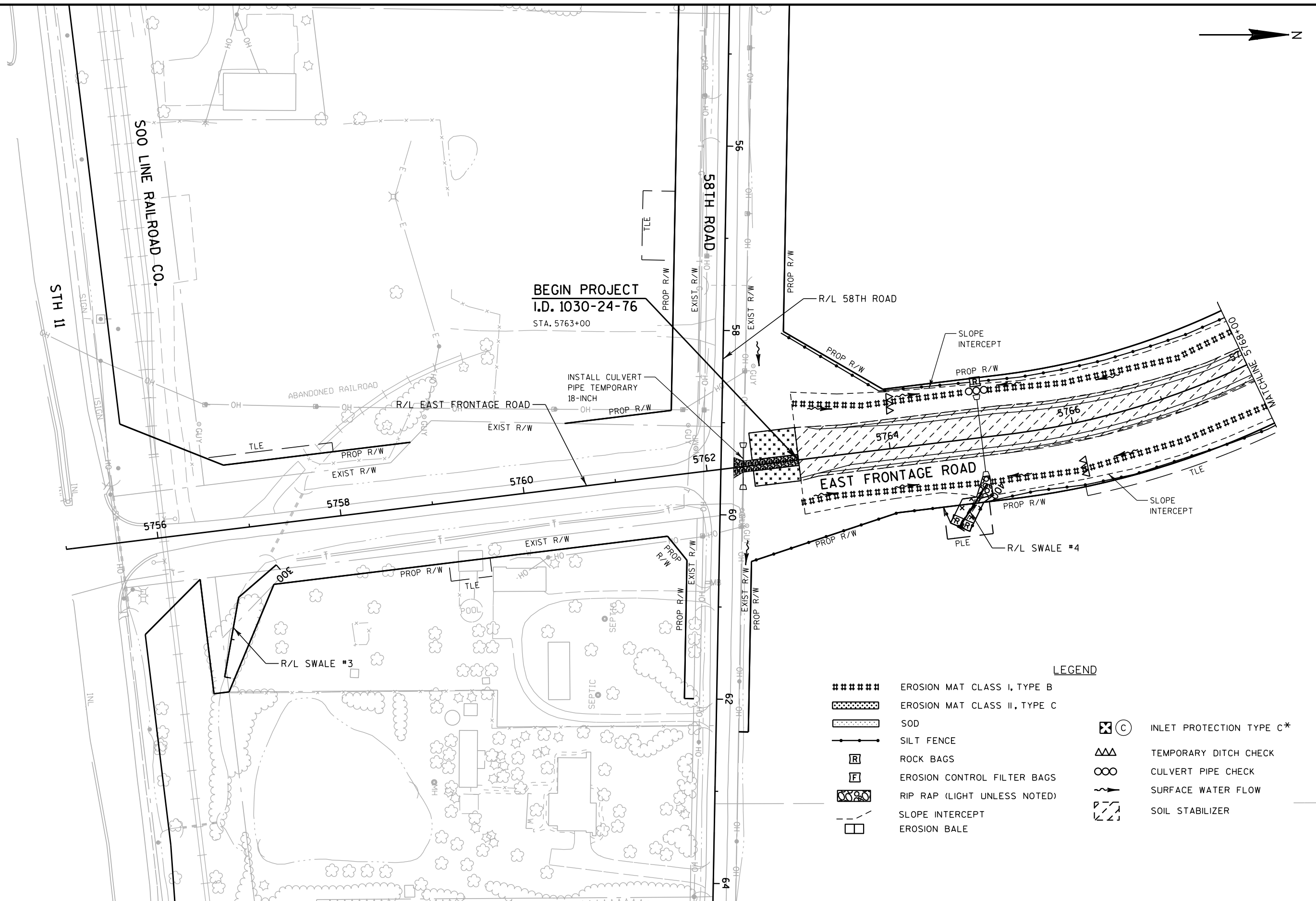
SLOPE INTERCEPT

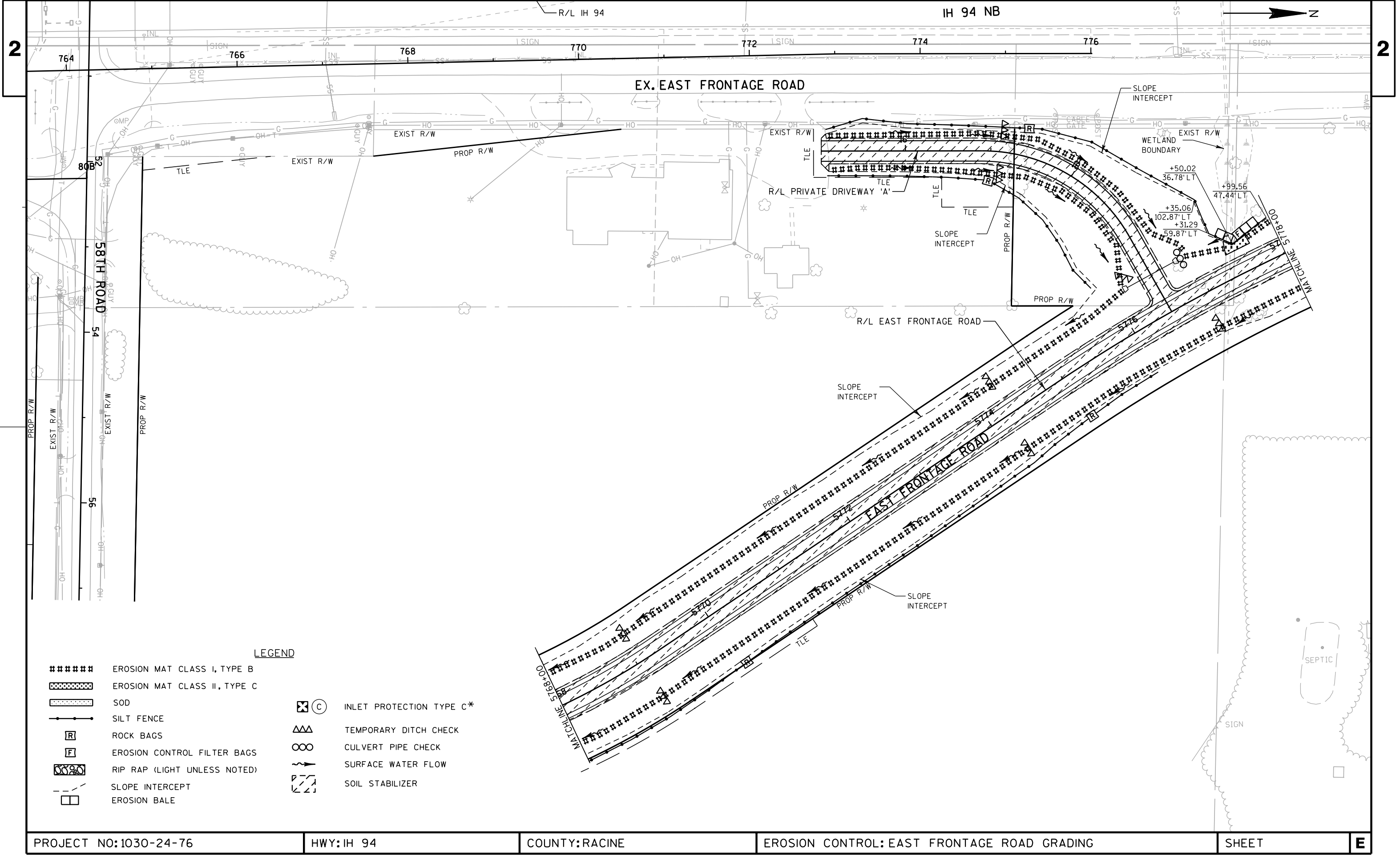
PROP R/W

PROP R/W

EXIST R/W

NOTE:
PAVING GRADES SHOWN ARE FOR TOP OF PAVEMENT. SUBGRADE ELEVATIONS
ARE 1.46' BELOW THE PAVING GRADES. SEE TYPICAL SECTIONS AND
CROSS SECTIONS FOR ADDITIONAL INFORMATION ON SUBGRADE ELEVATIONS





LEGEND

- | | | | |
|-------|------------------------------|-------|--------------------------|
| ##### | EROSION MAT CLASS I, TYPE B | ⊗ (C) | INLET PROTECTION TYPE C* |
| ▨ | EROSION MAT CLASS II, TYPE C | ΔΔΔ | TEMPORARY DITCH CHECK |
| ▤ | SOD | ○○○ | CULVERT PIPE CHECK |
| —●—●— | SILT FENCE | ~ | SURFACE WATER FLOW |
| [R] | ROCK BAGS | ▨▨ | SOIL STABILIZER |
| [F] | EROSION CONTROL FILTER BAGS | □ | EROSION BALE |
| ▨▨▨ | RIP RAP (LIGHT UNLESS NOTED) | | |
| - - - | SLOPE INTERCEPT | | |
| □ | EROSION BALE | | |

PROJECT NO:1030-24-76

HWY: IH 94

COUNTY: RACINE

EROSION CONTROL: EAST FRONTAGE ROAD GRADING

SHEET

E

FILE NAME : Z:\Racine\CADDs\13\13_Grading\CDS\022002_EC.dgn

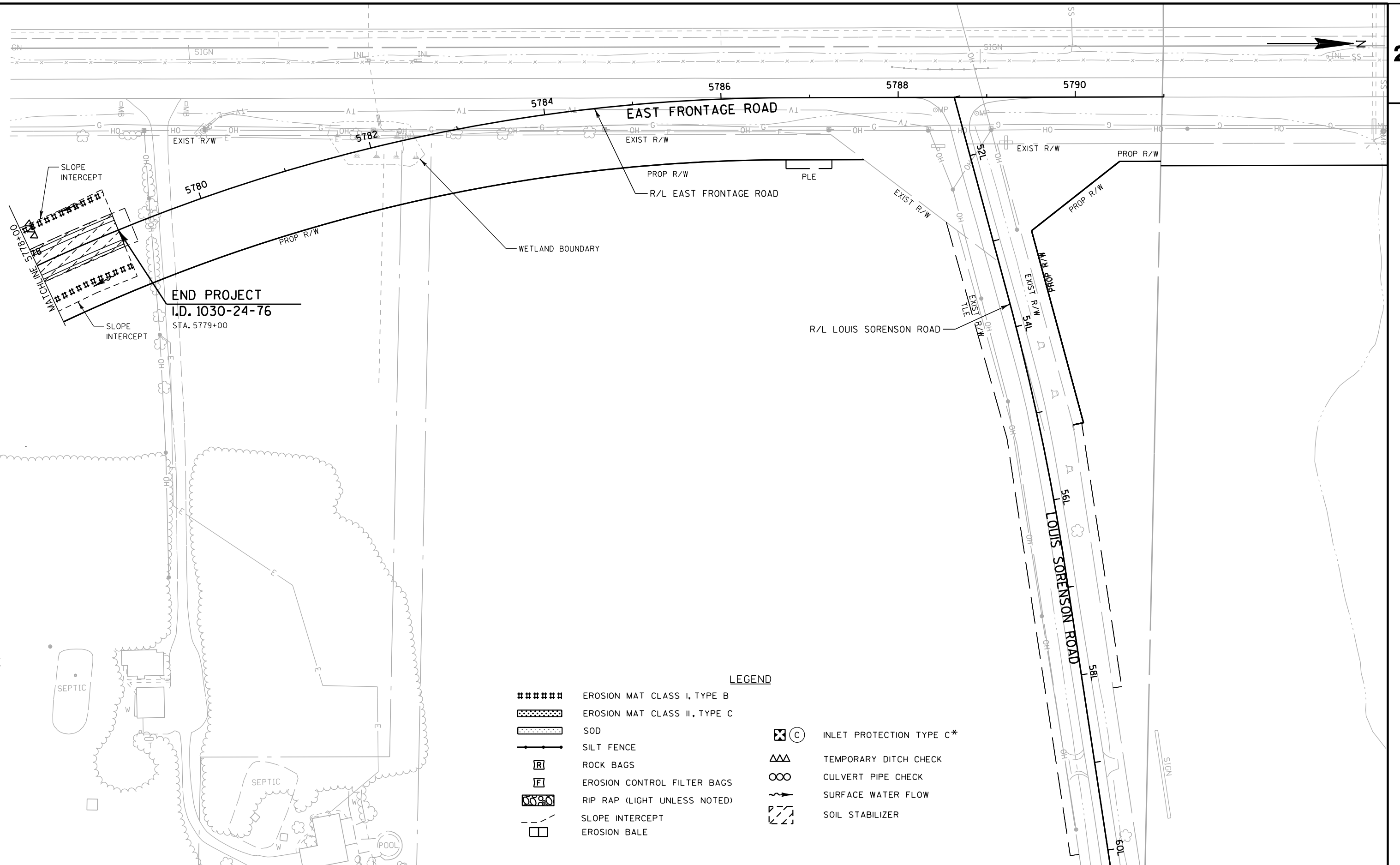
PLOT DATE : 10/23/2012

PLOT BY : b.jw

PLOT NAME :

PLOT SCALE : 1:100

WISDOT/CADDs SHEET 42





LEGEND

- ↑
↓ TYPE III BARRICADE
↑
↓ TYPE III BARRICADE WITH ATTACHED SIGN
▬ SIGN ON PERMANENT SUPPORT
▨ WORK AREA
⇄ DIRECTION OF TRAFFIC

NOTE:
INSTALL TRAFFIC CONTROL SIGNS AND BARRICADES
ACCORDING TO S.D.D. "TRAFFIC CONTROL, VEHICLE
ENTRANCE/EXIT OR HAUL ROAD".

GENERAL NOTES FOR CONSTRUCTION STAGING AND TRAFFIC CONTROL

1. ALL TRAFFIC CONTROL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED IN THE PLANS.
2. "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS REFLECTIVE ORANGE.
3. SIGN LOCATIONS ARE APPROXIMATE. THE ACTUAL LOCATION SPACING MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER TO MEET FIELD CONDITIONS.
4. ALL SIGNS, TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE COVERED OR REMOVED AS NEEDED AND/OR AS DIRECTED BY THE ENGINEER. PAID FOR UNDER THE TRAFFIC CONTROL COVERING SIGNS ITEMS.
5. A FLAGGER MAY BE REQUIRED WHERE CONSTRUCTION VEHICLES ENTER OR LEAVE "WORK/CLOSED" AREAS IF WARRANTED BY CONDITIONS AND/OR AS DIRECTED BY THE ENGINEER.
6. ACCESS TO THE PARK & RIDE LOT SHALL BE MAINTAINED AT ALL TIMES. ALL PARK & RIDE SIGNS SHALL REMAIN IN USE, AT THE EXISTING LOCATION.

* SIGNS ONLY NEEDED IF ACCESSING THE
WORK AREA FROM THE FRONTAGE ROADS.
SEE SPECIAL PROVISIONS FOR REQUIREMENTS
FOR INGRESS/EGRESS ACCESS.

BRAUN ROAD

IH 94

EAST FRONTAGE RD.

PARK AND RIDE

WEST FRONTAGE RD.

58TH ROAD

56TH ROAD

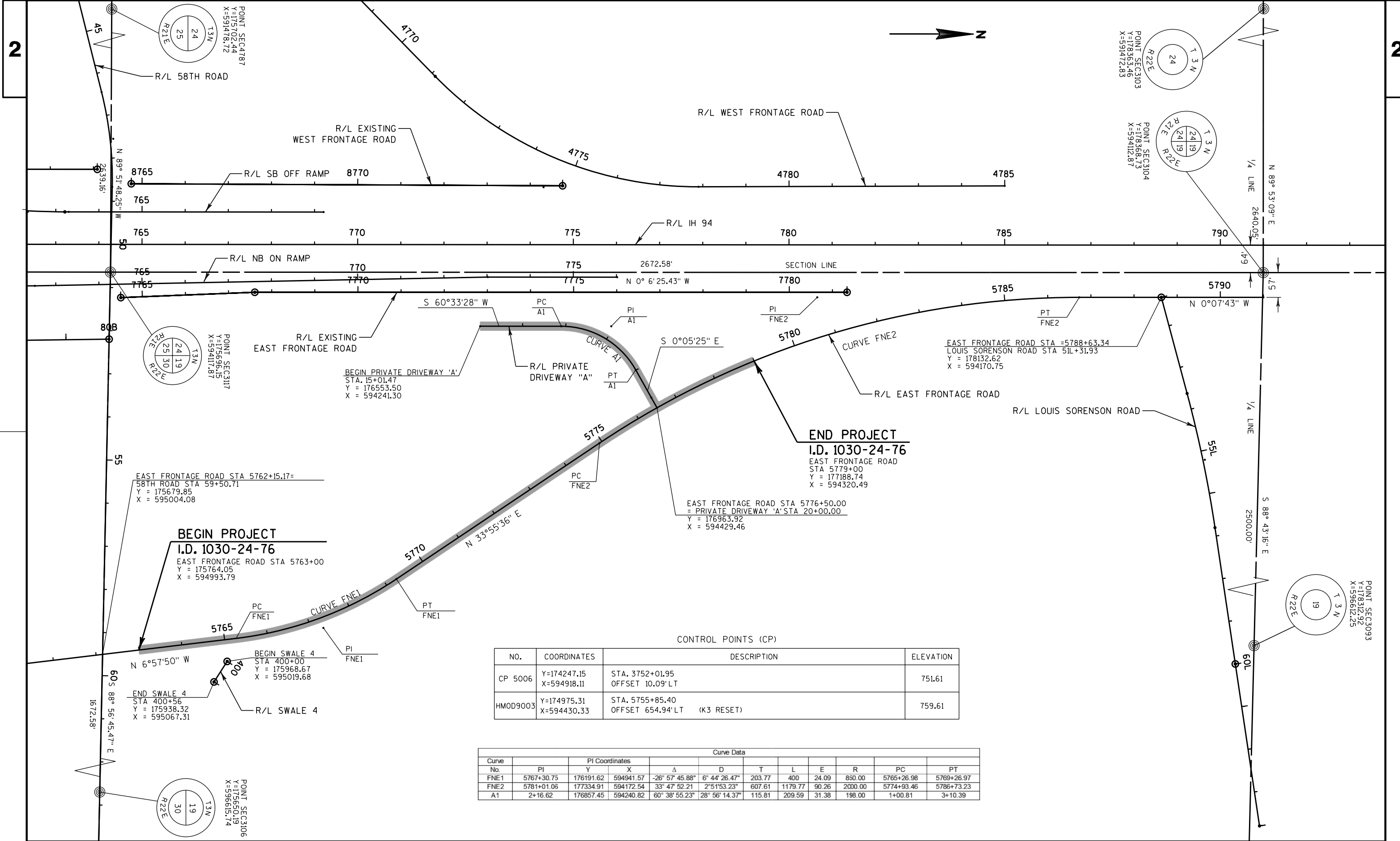
IH 94

GRANDVIEW PARKWAY

STH 20

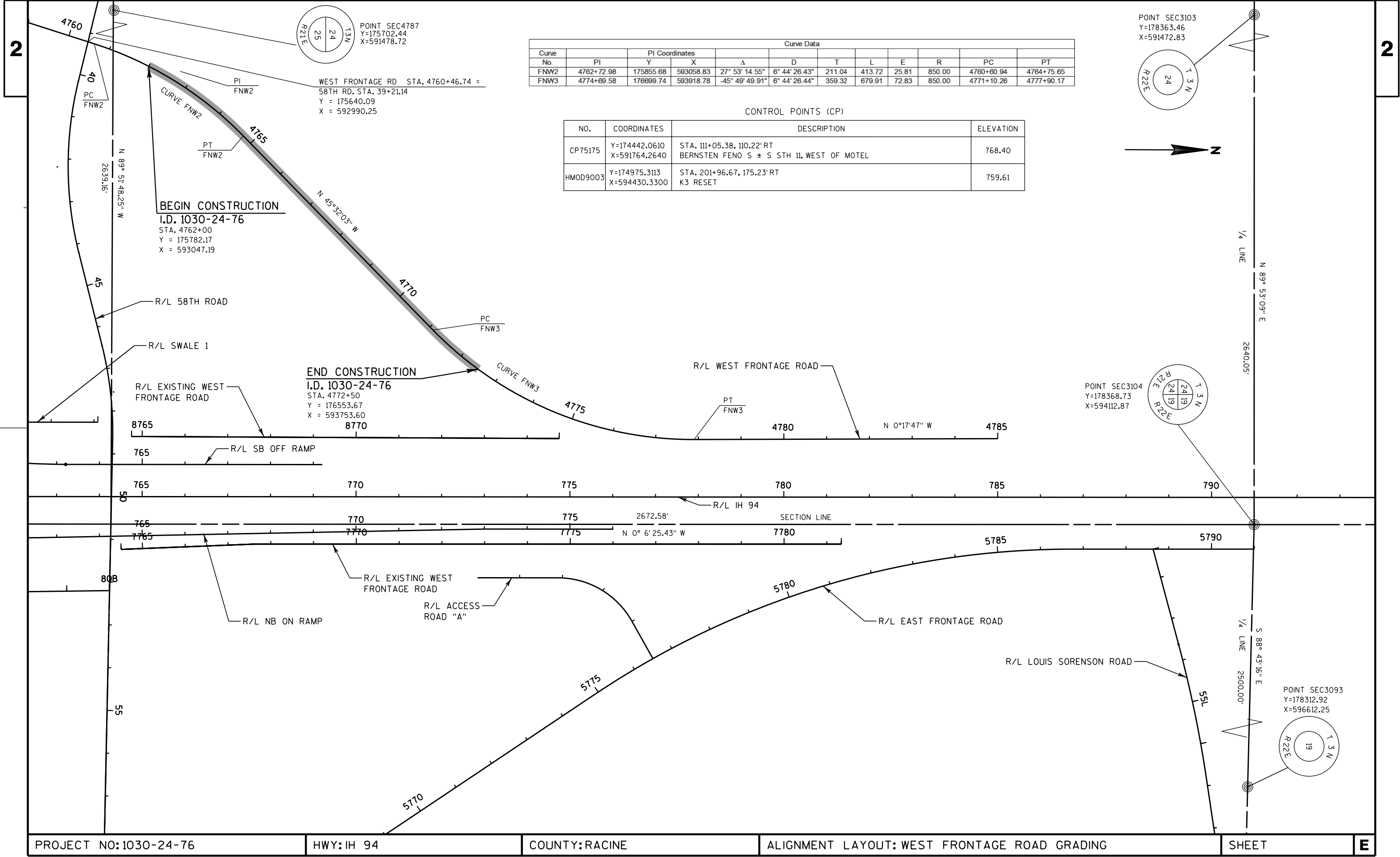
STH 20

CTH H



CONTROL POINTS (CP)			
NO.	COORDINATES	DESCRIPTION	ELEVATION
CP 5006	Y=174247.15 X=594918.11	STA. 3752+01.95 OFFSET 10.09' LT	751.61
HMOD9003	Y=174975.31 X=594430.33	STA. 5755+85.40 OFFSET 654.94' LT (K3 RESET)	759.61

Curve Data											
Curve No.	PI	PI Coordinates		PI Coordinates		PI Coordinates		PI Coordinates		PI Coordinates	
		Y	X	Y	X	Y	X	Y	X	Y	X
FNE1	5767+30.75	176191.62	594941.57	-26° 57' 45.88"	6° 44' 26.47"	203.77	400	24.09	850.00	5765+26.98	5769+26.97
FNE2	5781+01.06	177334.91	594172.54	33° 47' 52.21"	2° 51' 53.23"	607.61	1179.77	90.26	2000.00	5774+93.46	5786+73.23
A1	2+16.62	176857.45	594240.82	60° 38' 55.23"	28° 56' 14.37"	115.81	209.59	31.38	198.00	1+00.81	3+10.39



Curve Data											
Curve No	PI	PI Coordinates		Δ	D	T	L	E	R	PC	PT
FNW2	4762+72.98	175855.68	593058.83	27° 53' 14.55"	6° 44' 26.43"	211.04	413.72	25.81	850.00	4760+80.94	4764+75.65
FNW3	4774+69.58	176699.74	593918.78	-45° 49' 49.91"	6° 44' 26.44"	359.32	679.91	72.83	850.00	4771+10.26	4777+90.17

CONTROL POINTS (CP)			
NO.	COORDINATES	DESCRIPTION	ELEVATION
CP75175	Y=174442.0610 X=591764.2640	STA. 111+05.38, 110.22' RT BERNSTEN FENO S ± S STH 11, WEST OF MOTEL	768.40
HMOD9003	Y=174975.3113 X=594430.3300	STA. 201+96.67, 175.23' RT K3 RESET	759.61

EAST FRONTAGE ROAD - OFF ALIGNMENT GRADING

CURVE	SUPERELEVATION & CROSS SLOPE DATA	STATION	RATE	
			LEFT	RIGHT
FNE1	BEGIN SUPER TRANSITION	5763+80	-2.00%	-2.00%
	END CROWN RUNOFF	5764+30	-2.00%	FLAT
	REMOVE ADVERSE CROWN	5764+80	-2.00%	2.00%
	BEGIN FULL SUPER	5765+80	-6.00%	6.00%
	END FULL SUPER	5768+80	-6.00%	6.00%
	REMOVE ADVERSE CROWN	5769+80	-2.00%	2.00%
	END CROWN RUNOFF	5770+20	FLAT	-2.00%
	REMOVE ADVERSE CROWN	5770+70	2.00%	-2.00%
FNE2	BEGIN SUPER TRANSITION	5773+40	-2.00%	-2.00%
	END CROWN RUNOFF	5774+00	-2.00%	FLAT
	REMOVE ADVERSE CROWN	5774+50	-2.00%	2.00%
	BEGIN FULL SUPER	5775+40	-5.40%	5.40%
	END FULL SUPER	5786+30	-5.40%	5.40%
	REMOVE ADVERSE CROWN	5787+20	-2.00%	2.00%
	END CROWN RUNOFF	5787+70	FLAT	-2.00%
	REMOVE ADVERSE CROWN	5788+20	2.00%	-2.00%

NOTES
1) POSITIVE VALUES SLOPE TOWARDS THE REFERENCE LINE
2) NEGATIVE VALUES SLOPE AWAY FROM THE REFERENCE LINE

WEST FRONTAGE ROAD - OFF ALIGNMENT GRADING

CURVE	SUPERELEVATION & CROSS SLOPE DATA	STATION	RATE	
			LEFT	RIGHT
FNW2	BEGIN SUPER TRANSITION	4759+18	-2.00%	-2.00%
	END CROWN RUNOFF	4759+60	FLAT	-2.00%
	REMOVE ADVERSE CROWN	4760+12	2.00%	-2.00%
	BEGIN FULL SUPER	4761+06	6.00%	-6.00%
	END FULL SUPER	4764+20	6.00%	-6.00%
	REMOVE ADVERSE CROWN	4765+24	2.00%	-2.00%
	BEGIN CROWN RUNON	4765+72	FLAT	-2.00%
	END SUPER TRANSITION	4766+20	-2.00%	-2.00%
FNW3	BEGIN SUPER TRANSITION	4769+66	-2.00%	-2.00%
	END CROWN RUNOFF	4770+14	-2.00%	FLAT
	REMOVE ADVERSE CROWN	4770+62	-2.00%	2.00%
	BEGIN FULL SUPER	4771+58	-6.00%	6.00%
	END FULL SUPER	4777+42	-6.00%	6.00%
	REMOVE ADVERSE CROWN	4778+38	-2.00%	2.00%
	BEGIN CROWN RUNON	4778+86	-2.00%	FLAT
	END SUPER TRANSITION	4779+34	-2.00%	-2.00%

NOTES
1) POSITIVE VALUES SLOPE TOWARDS THE REFERENCE LINE
2) NEGATIVE VALUES SLOPE AWAY FROM THE REFERENCE LINE

NOTES:
1) POSITIVE VALUES SLOPE TOWARDS THE REFERENCE LINE
2) NEGATIVE VALUES SLOPE AWAY FROM THE REFERENCE LINE

DATE 28JAN13			E S T I M A T E O F Q U A N T I T I E S		
LINE			1030-24-76		
NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	QUANTITY
0010	201.0105	CLEARING **P**	STA	4.000	4.000
0020	201.0120	CLEARING	ID	18.000	18.000
0030	201.0205	GRUBBING **P**	STA	4.000	4.000
0040	201.0220	GRUBBING	ID	18.000	18.000
0050	204.9090.S	REMOVING (ITEM DESCRIPTION) 002. DRAINTILE **P**	LF	96.000	96.000
0060	205.0100	EXCAVATION COMMON	CY	16,926.000	16,926.000
0070	208.0100	BORROW	CY	12,570.000	12,570.000
0080	208.1100	SELECT BORROW	CY	13,759.000	13,759.000
0090	213.0100	FINISHING ROADWAY (PROJECT) 079. 1030-24-76	EACH	1.000	1.000
0100	520.0118	CULVERT PIPE CLASS III 18-INCH	LF	88.000	88.000
0110	520.4018	CULVERT PIPE TEMPORARY 18-INCH	LF	160.000	160.000
0120	521.1518	APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS STEEL 18-INCH 6 TO 1	EACH	2.000	2.000
0130	522.0130	CULVERT PIPE REINFORCED CONCRETE CLASS III 30-INCH	LF	138.000	138.000
0140	522.0330	CULVERT PIPE REINFORCED CONCRETE CLASS IV 30-INCH	LF	76.000	76.000
0150	522.1030	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 30-INCH	EACH	6.000	6.000
0160	523.0419	CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-IV 19X30-INCH	LF	68.000	68.000
0170	523.0434	CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-IV 34X53-INCH	LF	62.000	62.000
0180	523.0519	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 19X30-INCH	EACH	2.000	2.000
0190	523.0534	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 34X53-INCH	EACH	2.000	2.000
0200	606.0100	RIPRAP LIGHT	CY	20.000	20.000
0210	608.0512	STORM SEWER PIPE REINFORCED CONCRETE CLASS V 12-INCH	LF	200.000	200.000
0220	611.0535	MANHOLE COVERS TYPE J-SPECIAL	EACH	10.000	10.000
0230	612.0206	PIPE UNDERDRAIN UNPERFORATED 6-INCH	LF	15.000	15.000
0240	612.0208	PIPE UNDERDRAIN UNPERFORATED 8-INCH	LF	15.000	15.000
0250	612.0210	PIPE UNDERDRAIN UNPERFORATED 10-INCH	LF	15.000	15.000
0260	612.0212	PIPE UNDERDRAIN UNPERFORATED 12-INCH	LF	15.000	15.000
0270	612.0700	DRAIN TILE EXPLORATION	LF	500.000	500.000
0280	618.0100	MAINTENANCE AND REPAIR OF HAUL ROADS (PROJECT) 042. 1030-24-76	EACH	1.000	1.000
0290	619.1000	MOBILIZATION	EACH	1.000	1.000
0300	623.0200	DUST CONTROL SURFACE TREATMENT	SY	76,800.000	76,800.000
0310	624.0100	WATER	MGAL	35.000	35.000
0320	625.0500	SALVAGED TOPSOIL **P**	SY	28,050.000	28,050.000
0330	627.0200	MULCHING **P**	SY	19,280.000	19,280.000
0340	628.1104	EROSION BALES	EACH	200.000	200.000
0350	628.1504	SILT FENCE	LF	5,280.000	5,280.000
0360	628.1520	SILT FENCE MAINTENANCE	LF	5,280.000	5,280.000
0370	628.1905	MOBILIZATIONS EROSION CONTROL	EACH	4.000	4.000
0380	628.1910	MOBILIZATIONS EMERGENCY EROSION CONTROL	EACH	4.000	4.000
0390	628.2004	EROSION MAT CLASS I TYPE B	SY	8,750.000	8,750.000
0400	628.2027	EROSION MAT CLASS II TYPE C	SY	2,490.000	2,490.000

DATE 28JAN13		E S T I M A T E O F Q U A N T I T I E S			
LINE		1030-24-76			
NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	QUANTITY
0410	628.6510	SOIL STABILIZER TYPE B	ACRE	6.600	6.600
0420	628.7504	TEMPORARY DITCH CHECKS	LF	440.000	440.000
0430	628.7555	CULVERT PIPE CHECKS	EACH	125.000	125.000
0440	628.7560	TRACKING PADS	EACH	4.000	4.000
0450	628.7570	ROCK BAGS	EACH	5.000	5.000
0460	629.0210	FERTILIZER TYPE B	CWT	18.000	18.000
0470	630.0120	SEEDING MIXTURE NO. 20	LB	775.000	775.000
0480	630.0200	SEEDING TEMPORARY	LB	775.000	775.000
0490	633.5200	MARKERS CULVERT END	EACH	10.000	10.000
0500	634.0614	POSTS WOOD 4X6-INCH X 14-FT	EACH	1.000	1.000
0510	638.2102	MOVING SIGNS TYPE II	EACH	1.000	1.000
0520	642.5201	FIELD OFFICE TYPE C	EACH	1.000	1.000
0530	643.0100	TRAFFIC CONTROL (PROJECT) 079. 1030-24-76	EACH	1.000	1.000
0540	643.0300	TRAFFIC CONTROL DRUMS	DAY	1,120.000	1,120.000
0550	643.0420	TRAFFIC CONTROL BARRICADES TYPE III	DAY	672.000	672.000
0560	643.0705	TRAFFIC CONTROL WARNING LIGHTS TYPE A	DAY	560.000	560.000
0570	643.0900	TRAFFIC CONTROL SIGNS	DAY	1,624.000	1,624.000
0580	643.0920	TRAFFIC CONTROL COVERING SIGNS TYPE II	EACH	2.000	2.000
0590	643.1050	TRAFFIC CONTROL SIGNS PCMS	DAY	112.000	112.000
0600	645.0130	GEOTEXTILE FABRIC TYPE R **P**	SY	60.000	60.000
0610	ASP.1T0A	ON-THE-JOB TRAINING APPRENTICE AT \$5. 00/HR	HRS	150.000	150.000
0620	ASP.1T0G	ON-THE-JOB TRAINING GRADUATE AT \$5.00/HR	HRS	200.000	200.000
0630	SPV.0035	SPECIAL 004. ENERGY OF COMPACTION STUDY	CY	151.000	151.000
0640	SPV.0060	SPECIAL 009. EROSION CONTROL FILTER BAGS	EACH	5.000	5.000
0650	SPV.0060	SPECIAL 017. PERMANENT BARRICADES TYPE III	EACH	12.000	12.000
0660	SPV.0060	SPECIAL 030. SILT FENCE DRAINAGE OUTLET EROSION CONTROL FILTER BAGS	EACH	6.000	6.000
0670	SPV.0060	SPECIAL 031. SILT FENCE DRAINAGE OUTLET ROCK BAGS	EACH	13.000	13.000
0680	SPV.0105	SPECIAL 091. SURVEY PROJECT 1030-24-76	LS	1.000	1.000
0690	SPV.0105	SPECIAL 092. PAVEMENT CLEANUP	LS	1.000	1.000
0700	SPV.0180	SPECIAL 002. GEOTEXTILE FABRIC TYPE FF	SY	200.000	200.000
0710	SPV.0200	SPECIAL 001. MANHOLES 4-FT DIAMETER SPECIAL	VF	30.000	30.000

REMOVING DRAIN TILE

CATEGORY	ROADWAY	STATION	LOCATION	204.9090.S.002
				LF
1000	EAST FRONTAGE ROAD	5777+27	RT & LT	96
TOTAL (I.D. 1030-24-76)				96

CLEARING AND GRUBBING

CATEGORY	ROADWAY	STA	TO	STA	OFFSET	201.0105	201.0120	201.0205	201.0220	
						CLEARING	CLEARING	GRUBBING	GRUBBING	
						STA.	I.D.	STA.	I.D.	
1000	EAST FRONTAGE ROAD	5776+00	-	5778+00	LT & RT	2	—	2	—	
		5779+00	-	5780+00	LT & RT	1	—	1	—	
		PRIVATE DRIVEWAY "A"								
		17+00	-	18+00	LT & RT	1	—	1	—	
	WEST FRONTAGE ROAD									
		4761+61			LT	—	6	—	6	
		4769+75			LT	—	6	—	6	
		4769+80			LT	—	6	—	6	
	TOTALS (I.D. 1030-24-76)					4	18	4	18	

EARTHWORK

CATEGORY	ROADWAY	FROM / TO STATION	205.0100 EXCAVATION COMMON (1)		AVAILABLE MATERIAL (3)	REDUCED EBS IN FILL (4)	EXPANDED EBS BACKFILL (5)	208.1100 SELECT BORROW	UNEXPANDED FILL (6)	EXPANDED FILL (7)	MASS ORDINATE +/- (8)	WASTE (9)	208.0100 BORROW	ESTIMATED DISPOSAL AREA OUTSIDE 1:1 SLOPE (10)
			CY	CY				CY					CY	
1000			CUT	EBS EXCAVATION (2)		Factor 0.80	Factor 1.30			FACTOR 1.20				
	EAST FRONTAGE ROAD - GRADING	5763+00 to 5779+00	4,949	4,487	9,436	3,589	5,833	5,833	8,049	9,659	-223	0	223	1,655
	EBS IN FILL AREAS -EFR	5763+00 to 5779+00	0	1,824	1,824	1,459	2,371	2,371	0	0	1,824	1,824	0	0
	PRIVATE DWY A - GRADING	15+02 to 19+80	1,333	267	1,600	213	347	347	466	559	1,041	1,041	0	0
	SWALE 4 - GRADING	400+00 to 400+56	3	0	3	0	0	0	0	0	3	3	0	0
	SUBTOTAL		6,285	6,578	12,863	5,262	8,551	8,551	8,515	10,218	2,645	2,868	223	1,655
	WEST FRONTAGE ROAD - GRADING	4762+00 to 4772+50	57	3,167	3,225	2,534	4,117	4,117	12,976	15,571	-12,346	0	12,346	2,861
	EBS IN FILL AREAS -WFR	4762+00 to 4772+50	0	839	839	671	1,091	1,091	0	0	839	839	0	0
	SUBTOTAL		57	4,006	4,064	3,205	5,208	5,208	12,976	15,571	-11,507	839	12,346	2,861
	GRAND TOTALS (I.D. 1030-24-76)		6,342	10,584	16,926	8,467	13,759	13,759	21,491	25,789	-8,863	3,707	12,570	4,516
TOTAL EXCAVATION COMMON			16,926											

- 1) EXCAVATION COMMON IS THE SUM OF THE CUT AND EBS EXCAVATION COLUMNS. ITEM NUMBER 205.0100
- 2) EBS TO BE BACKFILLED WITH SELECT BORROW. EBS TO BE WASTED OUTSIDE THE 1:1 SLOPES (SEE NOTE 4) OR HAULED OFF-SITE.
- 3) AVAILABLE MATERIAL = CUT + EBS EXCAVATION - SALVAGED/UNUSABLE PAVEMENT MATERIAL.
- 4) REDUCED EBS IN FILL - FOR INFORMATION ONLY. EXCAVATED EBS MATERIALS ARE UNUSABLE IN FILLS OUTSIDE THE 1:1 SLOPE BETWEEN IH 94 AND THE FRONTAGE ROAD. EBS MATERIAL CAN BE USED OUTSIDE THE 1:1 SLOPE ON THE NON-IH 94 SIDE OF THE FRONTAGE ROAD.
- 5) EXPANDED EBS BACKFILL - THIS IS TO BE FILLED WITH SELECT BORROW MATERIAL. EBS BACKFILL FACTOR = 1.3 ITEM NUMBER 208.1100
- 6) UNEXPANDED FILL - FILL FROM END AREA EARTHWORK VOLUMES
- 7) EXPANDED FILL FACTOR = 1.20 (EXPANDED FILL DOES NOT CONTAIN EBS)
- 8) MASS ORDINATE = AVAILABLE MATERIAL - EXPANDED FILL. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE STAGE. MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE STAGE.
- 9) WASTE = MASS ORDINATE IF POSITIVE (FOR INFORMATION ONLY - BORROW = MASS ORDINATE IF NEGATIVE)
- 10) THE ESTIMATED AREA OUTSIDE THE 1:1 FILL SLOPES = LOCATION WHERE THE EBS AND CUT MATERIALS CAN BE WASTED (USED AT CONTRACTORS DISCRETION). AREA IS PART OF THE FILL NUMBERS.

FINISHING ROADWAY		
CATEGORY	LOCATION	213.0100.079 EACH
1000	PROJECT ID 1030-24-76	1
TOTAL (I.D. 1030-24-76)		1

CULVERT PIPE TEMPORARY				
CATEGORY	STATION	OFFSET	520.4018 CULVERT PIPE TEMPORARY 18-INCH	REMARKS
			LF	
1000	<u>EAST FRONTAGE ROAD</u>			
	58TH ROAD INGRESS/EGRESS	LT & RT	40	PLACE IN EXISTING DITCH
	EFR INGRESS/EGRESS	LT & RT	40	PLACE IN EXISTING DITCH
	<u>WEST FRONTAGE ROAD</u>			
	58TH ROAD INGRESS/EGRESS	LT & RT	40	PLACE IN EXISTING DITCH
	WFR INGRESS/EGRESS	LT & RT	40	PLACE IN EXISTING DITCH
TOTAL (I.D. 1030-24-76)			160	

EROSION CONTROL ITEMS																	
CATEGORY	ROADWAY	606.0100	*628.1104	628.1504	628.1520	628.1905	628.1910	628.2004	628.2027	628.6510**	628.7504	628.7555	645.0130	SPV.0060.009	628.7570	SPV.0060.030	SPV.0060.031
		RIPRAP	EROSION	SILT	SILT	MOBILIZATION	MOBILIZATION	EROSION	EROSION	SOIL	TEMPORARY	CULVERT	GEOTEXTILE	EROSION	ROCK	SILT FENCE	SILT FENCE
		LIGHT	BALES	FENCE	FENCE	EROSION	EROSION	MAT	MAT	STABILIZER	DITCH	PIPE	FABRIC	CONTROL	BAGS	EROSION CONTROL	EROSION CONTROL
		CY	EACH	LF	LF	EACH	EACH	SY	SY	ACRE	LF	EACH	SY	EACH	EACH	FILTER BAGS	OUTLET
1000	EAST FRONTAGE ROAD	7	54	2,030	2,030	1	1	3,438	403	1.7	140	30	21	—	—	1	5
	PRIVATE DRIVEWAY 'A'	—	—	850	850	1	1	977	—	0.3	53	10	—	—	—	—	2
	WEST FRONTAGE ROAD	7	—	1,340	1,340	1	1	2,586	1,588	1.3	158	60	21	—	—	—	1
	UNDISTRIBUTED	6	16	1060	1,060	1	1	1,750	499	3.3	90	25	18	5	5	5	5
	TOTALS (I.D. 1030-24-76)	20	70	5,280	5,280	4	4	8,750	2,490	6.6	440	125	60	5	5	6	13
* ADDITIONAL QUANTITIES LISTED ELSEWHERE																	
** UNDISTRIBUTED QUANTITY IS A SECOND APPLICATION TO EACH ROAD SUBGRADE JUST PRIOR TO WINTER.																	

CROSS CULVERT ITEMS																	
CATEGORY	ROADWAY	STATION	INLET END			DISCHARGE END			SLOPE	522.0130	522.0330	523.0419	523.0434	522.1030	523.0519	523.0534	633.5200
			OFFSET	ELEV	STATION	OFFSET	ELEV	STATION		CULVERT PIPE	CULVERT PIPE	CULVERT PIPE		APRON ENDWALLS FOR	APRON ENDWALLS FOR		
										REINFORCED	REINFORCED	REINFORCED		CULVERT PIPE	PIPE REINFORCED		
										CONCRETE CLASS III	CONCRETE CLASS IV	ELLIPTICAL CLASS HE-IV	REINFORCED CONCRETE	HORIZONTAL ELLIPTICAL	CULVERT		
										30-INCH	30-INCH	19 x 30-INCH	34 x 53-INCH	30-INCH	19 x 30-INCH	34 x 53-INCH	END
LF	LF	LF	LF	EACH	EACH	EACH	EACH										
1000	PRIVATE DRIVEWAY "A"																
		19+50	29.1' LT	762.00	19+60	30.4' RT	761.65	19+50	0.58%	60	—	—	—	2	—	—	2
	EAST FRONTAGE ROAD																
		5765+00	40.4' LT	755.39	5765+00	36.1' RT	755.06	5765+00	0.42%	78	—	—	—	2	—	—	2
	WEST FRONTAGE ROAD																
		4762+00	45.5' LT	765.25	4762+00	22.5' RT	764.55	4762+00	1.03%	—	—	68	—	—	2	—	2
		4764+29	49.1' LT	765.44	4764+30	26.3' RT	765.07	4764+30	0.49%	—	76	—	—	2	—	—	2
		4766+00	34.5' LT	765.27	4766+00	28.1' RT	765.07	4766+00	0.32%	—	—	—	62	—	—	2	2
TOTALS (I.D. 1030-24-76)										138	76	68	62	6	2	2	10

NOTES

- 1) STATION OFFSETS SHOWN ARE TO THE CENTER OF INLET STRUCTURES OR END OF PIPE (NOT THE APRON END OF ENDWALLS).
2) JOINT TIES FOR CONCRETE PIPE SHALL BE PROVIDED AT ALL CONCRETE APRON ENDWALLS. PIPE JOINTS SHALL BE TIED FOR THE LAST THREE JOINTS AT PIPE ENDS. THE COST OF THE JOINT TIES SHALL BE INCIDENTAL TO THE COST OF THE PIPE.
3) GRANULAR BACKFILL IS INCIDENTAL TO THE COST OF THE PIPE
4) PIPE LENGTH IS FROM END OF PIPE TO END OF PIPE AND DOES NOT INCLUDE LENGTH OF APRON ENDWALL.

DRIVEWAY PIPE ITEMS

CATEGORY	ROADWAY	STATION	OFFSET	ELEVATION	SLOPE	DOWN STATION		UP STATION		520.0118	521.1518	STEEL PIPE THICKNESS
						ENDWALL ELEVATION	END OF ENDWALL	ENDWALL ELEVATION	END OF ENDWALL	CULVERT PIPE	APRON ENDWALLS	
										CLASS III	FOR CULVERT PIPE	
											SLOPED SIDE DRAINS	
18-INCH LF	18-INCH 6 TO 1 EACH	INCHES										
1000	WEST FRONTAGE ROAD	4763+00	55.3' LT	765.75	0.6%	765.30	4762+76	765.90	4763+64	88	2	0.064
TOTALS (I.D. 1030-24-76)										88	2	

NOTES

- 1) PIPE OFFSETS AND ELEVATIONS ARE TO THE CENTERLINE AND INVERT OF PIPE
2) PIPE LENGTH IS FROM END OF PIPE AND DOES NOT INCLUDE THE LENGTH OF APRON ENDWALL

DRAIN TILE ITEMS

CATEGORY	LOCATION	608.0512	SPV.0200.001	611.0535	612.0206	612.0208	612.0210	612.0212	612.0700
		STORM SEWER PIPE	MANHOLES	MANHOLE		PIPE UNDERDRAIN UNPERFORATED			DRAIN TILE
		REINFORCED CONCRETE	4-FT DIAMETER	COVERS TYPE					EXPLORATION
		CLASS V	SPECIAL	J-SPECIAL	6-INCH	8-INCH	10-INCH	12-INCH	LF
		12-INCH	VF	EACH	LF	LF	LF	LF	LF
1000	UNDISTRIBUTED								
		200	30	10	15	15	15	15	500
	TOTAL (I.D. 1030-24-76)	200	30	10	15	15	15	15	500

MAINTENANCE AND REPAIR OF HAUL ROADS (1030-24-76)		
CATEGORY	ROADWAY	618.0100.042 EACH
1000	EAST & WEST FRONTAGE RD	1
	TOTAL (I.D 1030-24-76)	1

MOBILIZATION		
CATEGORY	ROADWAY	619.1000 EACH
1000	EAST & WEST FRONTAGE RD	1
	TOTAL (I.D 1030-24-76)	1

WATER		
CATEGORY	ROADWAY	624.0100 WATER MGAL
1000	EAST FRONTAGE ROAD	20
	WEST FRONTAGE ROAD	15
	TOTAL (I.D. 1030-24-76)	35

DUST CONTROL SURFACE TREATMENT		
CATEGORY	ROADWAY	623.0200 SY
1000	EAST FRONTAGE ROAD	49,400
	WEST FRONTAGE ROAD	27,400
	TOTAL (I.D. 1030-24-76)	76,800

RESTORATION ITEMS						
CATEGORY	ROADWAY	625.0500	627.0200	629.0210	630.0120	630.0200
		SALVAGED	MULCHING	FERTILIZER	SEEDING	SEEDING
		TOPSOIL	SY	TYPE B	MIX NO. 20	TEMPORARY
		SY	SY	CWT	LB	LB
1000	EAST FRONTAGE ROAD	14,920	10,500	9	410	410
	WEST FRONTAGE ROAD	7,510	4,920	5	210	210
	UNDISTRIBUTED	5,620	3,860	4	155	155
	TOTALS (I.D. 1030-24-76)	28,050	19,280	18	775	775

TEMPORARY SETTLING BASIN			
CATEGORY	ROADWAY	*628.1104	SPV.0180.002
		EROSION	GEOTEXTILE
		BALES	FABRIC
		EACH	SY
1000	EAST FRONTAGE ROAD UNDISTRIBUTED	65	100
	WEST FRONTAGE ROAD UNDISTRIBUTED	65	100
	TOTALS (I.D. 1030-24-76)	130	200

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

TRACKING PADS			
CATEGORY	ROADWAY	LOCATION	628.7560
			TRACKING PADS
			EACH
1000	EAST FRONTAGE ROAD	58TH ROAD	1
	WEST FRONTAGE ROAD	58TH ROAD	1
	UNDISTRIBUTED		2
	TOTAL (I.D. 1030-24-76)		4

MOVING SIGNS						
CATEGORY	SIGN #	SIGN CODE	SIGN MESSAGE	638.2102	STATION	634.0614
				MOVING		POSTS WOOD
				SIGNS		4X6-INCH X14 FT
				TYPE II		EACH
1000	EAST FRONTAGE ROAD					
	1M01	W1-7	NIGHT ARROW (DOUBLE)	1	5762+25	1
	TOTAL (I.D. 1030-24-76)			1		1

FIELD OFFICE TYPE C		
CATEGORY	ROADWAY	642.5201 EACH
1000	EAST & WEST FRONTAGE RD	1
TOTAL (I.D. 1030-24-76)		1

TRAFFIC CONTROL (PROJECT)		
		643.0100.079 TRAFFIC CONTROL 1030-24-76
CATEGORY	ROADWAY	EACH
1000	EAST & WEST FRONTAGE ROAD	1
TOTAL (I.D. 1030-24-76)		1

TRAFFIC CONTROL COVERING SIGNS TYPE II			
643.0920			
STAGE	EACH	NUMBER OF CYCLES	NUMBER OF SIGNS
1	2	1	2
TOTAL	2		

TRAFFIC CONTROL ITEMS													
CATEGORY	LOCATION	STAGE	STAGE DURATION DAYS	643.0300 TRAFFIC CONTROL DRUMS		643.0420 TRAFFIC CONTROL BARRICADES TYPE III		643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A		643.0900 TRAFFIC CONTROL SIGNS		643.1050 TRAFFIC CONTROL SIGNS PCMS	
				NO.	DAYS	NO.	DAYS	NO.	DAYS	NO.	DAYS	NO.	DAYS
1000	EAST & WEST FRONTAGE ROAD	1	56	15	840	10	560	8	448	25	1,400	0	0
	UNDISTRIBUTED			5	280	2	112	2	112	4	224	2	112
TOTALS (I.D. 1030-24-76)				1,120		672		560		1,624		112	

PERMANENT BARRICADE ITEMS

		SPV.0060.017
		TRAFFIC
		CONTROL
		PERMANENT
		BARRICADES
		TYPE III
CATEGORY	LOCATION	EACH
1000		
	EAST FRONTAGE ROAD	4
	PRIVATE DRIVEWAY A	2
	WEST FRONTAGE ROAD	4
	DRIVEWAY STA 4763+25 LT	2
TOTAL		12

NOTE: PLACE BARRICADES AT EACH END OF GRADING AREAS.
ACTUAL LOCATIONS TO BE DETERMINED BY THE ENGINEER IN
THE FIELD.

ENERGY OF COMPACTION STUDY

		SPV.0035.004
		ENERGY OF
		COMPACTION
		STUDY
CATEGORY	LOCATION	CY
1000	PROJECT 1030-24-76	151
TOTAL (I.D. 1030-24-76)		151

SURVEY PROJECT

		SPV.0105.091
		SURVEY
		PROJECT
		1030-24-76
CATEGORY	LOCATION	LS
1000	PROJECT ID 1030-24-76	1
TOTAL (I.D. 1030-24-76)		1

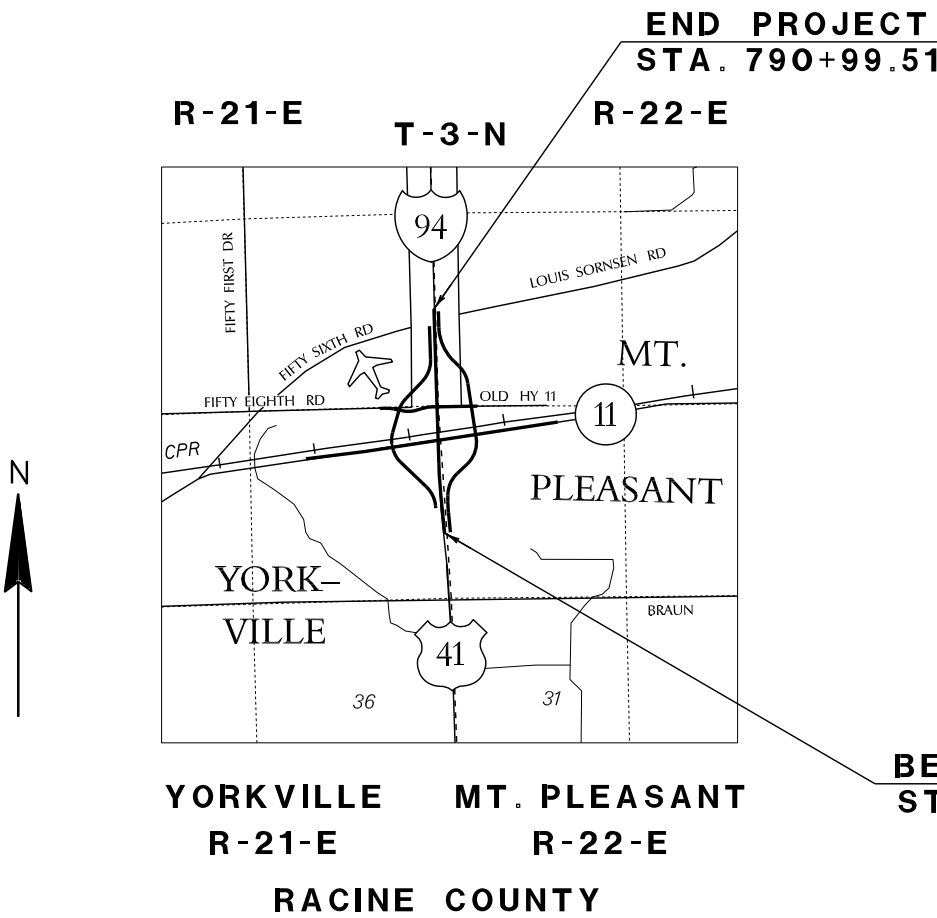
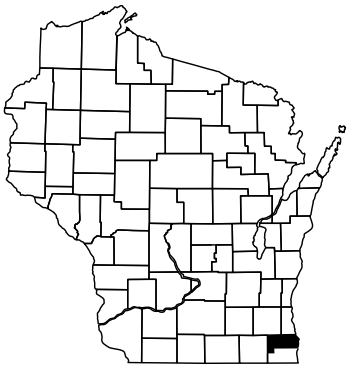
PAVEMENT CLEANUP PROJECT 1030-24-76

		SPV.0105.092
		LS
CATEGORY	ROADWAY	
1000	FRONTAGE ROAD GRADING	1
TOTAL (I.D. 1030-24-76)		1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

TRANSPORTATION PROJECT PLAT TITLE SHEET

PROJECT NO. 1030-24-20
INTERSTATE 94
STH 11 INTERCHANGE
RACINE COUNTY



THE NOTES, CONVENTIONAL SYMBOLS, AND VARIOUS ABBREVIATIONS ARE ASSOCIATED WITH EACH TRANSPORTATION PROJECT PLAT OF PROJECT 1030-24-20.

NOTES:
COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, RACINE COUNTY ZONE, NAD83 (97) ADJUSTMENT AND ARE REFERENCED TO GPS HARN POINTS YORKVILLE EAST, RAYMOND SOUTH, AND PARIS EAST. ALL DISTANCES ARE GROUND LENGTH.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT, BY SE REGION DOT SURVEY.

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".

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 LINES, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION 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 NECESSARY OR DESIRABLE. ALL TLES 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 NECESSARY OR DESIRABLE, BUT WITHOUT PREJUDICE TO THE OWNER'S RIGHT TO MAKE OR CONSTRUCT IMPROVEMENT ON SAID LANDS OR TO FLATTEN THE SLOPES, PROVIDING SAID ACTIVITIES WILL NOT IMPAIR OR OTHERWISE ADVERSELY AFFECT THE HIGHWAY FACILITIES.

CONVENTIONAL ABBREVIATIONS

ACCESS POINT	AP	RELEASE OF RIGHTS	ROR
ACCESS RIGHTS	AR	REMAINING	REM.
ACRES	AC.	RIGHT-OF-WAY	R/W
AND OTHERS	ET.AL.	SECTION	SEC.
CENTERLINE	C/L	STATION	STA.
CERTIFIED SURVEY MAP	CSM	TEMPORARY LIMITED EASEMENT	TLE
CORNER	COR.	VOLUME	V.
CONVEYANCE OF RIGHTS	CR		
DOCUMENT	DOC.	CURVE DATA	
EASEMENT	EASE.	LONG CHORD	LCH
LAND CONTRACT	LC	LONG CHORD BEARING	LCB
MONUMENT	MON.	RADIUS	R
PAGE	P.	DEGREE OF CURVE	D
PERMANENT LIMITED EASEMENT	PLE	CENTRAL ANGLE OR DELTA	DELTA
PROPERTY LINE	PL	LENGTH OF CURVE	L
RECORDED AS	(100')	TANGENT	TAN
REFERENCE LINE	R/L		

CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN	LE (1" UNLESS NOTED)	PROPOSED R/W LINE	---
R/W MONUMENT	• (SET)	EXISTING H.E. LINE	---
R/W STANDARD	▲ (SET)	PROPERTY LINE	---
SIGN	ISIGN	LOT & TIE LINES	---
SECTION CORNER MONUMENT	•	SLOPE INTERCEPTS	---
SECTION CORNER SYMBOL	•	CORPORATE LIMITS	---
FEE - HE (HATCH VARIES)	---	NO ACCESS (BY PREVIOUS ACQUISITION/CONTROL)	---
TEMPORARY LIMITED EASEMENT	---	NO ACCESS (BY ACQUISITION)	---
PERMANENT LIMITED EASEMENT	---	NO ACCESS (BY STATUTORY AUTHORITY)	---
R/W BOUNDARY POINT	---	SECTION LINE	---
PARCEL NUMBER	---	QUARTER LINE	---
SIGN NUMBER (OFF PREMISE)	---	SIXTEENTH LINE	---
BUILDING	---	EXISTING CENTERLINE	---
		PROPOSED REFERENCE LINE	---
		PARALLEL OFFSET	---

CONVENTIONAL UTILITY SYMBOLS

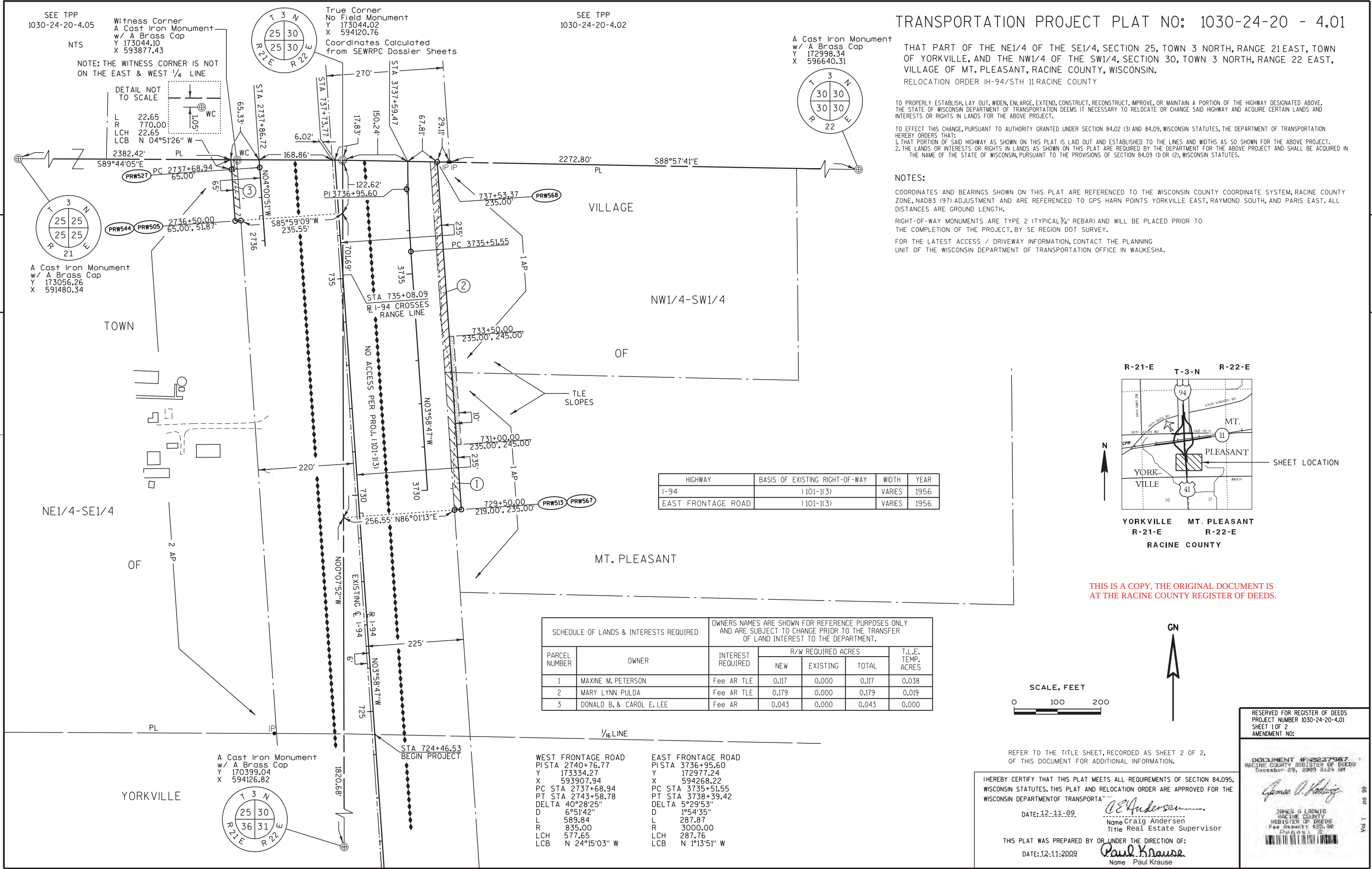
WATER	---	W -
GAS	---	G -
TELEPHONE	---	T -
OVERHEAD TRANSMISSION LINES	---	OH -
ELECTRIC	---	E -
CABLE TELEVISION	---	TV -
FIBER OPTIC	---	FO -
SANITARY SEWER	---	SAN -
STORM SEWER	---	SS -
NON COMPENSABLE	---	NON COMPENSABLE
POWER POLE	---	POWER POLE
TELEPHONE POLE	---	TELEPHONE POLE
TELEPHONE PEDESTAL	---	TELEPHONE PEDESTAL
ELECTRIC TOWER	---	ELECTRIC TOWER

THIS IS A COPY, THE ORIGINAL DOCUMENT IS AT THE RACINE COUNTY REGISTER OF DEEDS.

TPP NUMBER 1030-24-20-4.01
SHEET 2 OF 2

DOCUMENT # 2237987
RACINE COUNTY REGISTER OF DEEDS
December 29, 2009 8:24 AM

JAMES A. LADWIG
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: \$25.00
Pages: 2



TRANSPORTATION PROJECT PLAT NO: 1030-24-20 - 4.01

THAT PART OF THE NE1/4 OF THE SE1/4, SECTION 25, TOWN 3 NORTH, RANGE 21 EAST, TOWN OF YORKVILLE, AND THE NW1/4 OF THE SW1/4, SECTION 30, TOWN 3 NORTH, RANGE 22 EAST, VILLAGE OF MT. PLEASANT, RACINE COUNTY, WISCONSIN.
RELOCATION ORDER IH-94/STH 11 RACINE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.

2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, RACINE COUNTY ZONE, NAD83 (97) ADJUSTMENT AND ARE REFERENCED TO GPS HARN POINTS YORKVILLE EAST, RAYMOND SOUTH, AND PARIS EAST. ALL DISTANCES ARE GROUND LENGTH.

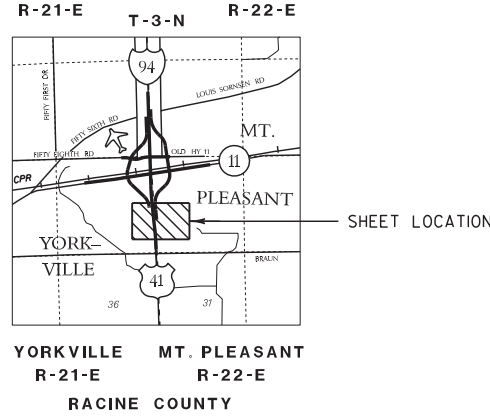
RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT, BY SE REGION DOT SURVEY.

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

HIGHWAY	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
I-94	1101-1(3)	VARIES	1956
EAST FRONTAGE ROAD	1101-1(3)	VARIES	1956

SCHEDULE OF LANDS & INTERESTS REQUIRED		OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.				
PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED ACRES			T.L.E. TEMP. ACRES
			NEW	EXISTING	TOTAL	
1	MAXINE M. PETERSON	Fee AR TLE	0.117	0.000	0.117	0.038
2	MARY LYNN PULDA	Fee AR TLE	0.179	0.000	0.179	0.019
3	DONALD B. & CAROL E. LEE	Fee AR	0.043	0.000	0.043	0.000

THIS IS A COPY, THE ORIGINAL DOCUMENT IS AT THE RACINE COUNTY REGISTER OF DEEDS.



REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2, OF THIS DOCUMENT FOR ADDITIONAL INFORMATION.

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE: 12-11-09

NAME: Craig Andersen

TITLE: Real Estate Supervisor

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 12-11-2009

NAME: Paul Krause

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1030-24-20-4.01
SHEET 1 OF 2
AMENDMENT NO:

DOCUMENT # 2237987
RACINE COUNTY REGISTER OF DEEDS
December 29, 2009 8:24 AM

JAMES A. LADWIG
RACINE COUNTY
REGISTER OF DEEDS
Fee Product: \$25.00
Pages: 2

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF DOCUMENT 2237987, OF TRANSPORTATION PROJECT PLATS IN THE RACINE COUNTY REGISTER OF DEEDS.

NOTE: THE WITNESS CORNER IS NOT ON THE EAST & WEST 1/4 LINE

Witness Corner
A Cast Iron Monument
w/ A Brass Cap
Y 173044.10
X 593877.43

DETAIL NOT TO SCALE

True Corner
No Field Monument
Y 173044.02
X 594120.76

Coordinates
Calculated
from SEWRPC
Dossier Sheets

STA 3737+59.47

SEE TPP
1030-24-20-4.01

100 NO RECORDED EASEMENT
PCL. 8
V. 919 P. 279 DOC. 811995
PCL. 9

101 NO RECORDED EASEMENT
PCL. 8

103 V 485 P 507 DOC. 544359
PCL. 9,11

NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, RACINE COUNTY ZONE, NAD83 (97) ADJUSTMENT AND ARE REFERENCED TO GPS HARN POINTS YORKVILLE EAST, RAYMOND SOUTH, AND PARIS EAST. ALL DISTANCES ARE GROUND LENGTH.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT, BY SE REGION DOT SURVEY.

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

SCHEDULE OF LANDS & INTERESTS REQUIRED		OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.					
PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED ACRES			T.L.E. TEMP. ACRES	P.L.E. PERM. ACRES
			NEW	EXISTING	TOTAL		
4	VERENA E. PETERSEN TRUST	Fee AR	0.007	0.000	0.007	0.000	0.000
5	RODNEY A. JENSEN	Fee AR TLE	0.054	0.000	0.054	0.044	0.000
6	ELIMINATED		0.000	0.000	0.000	0.000	0.000
7	JOSEPH C. MRAZEK SR.	Fee AR TLE	0.133	0.000	0.133	0.097	0.000
8	SOO LINE RAILROAD COMPANY	HE	0.593	0.000	0.593	0.000	0.000
9	LAKE-COOK FARM SUPPLY	Fee AR TLE	0.433	0.255	0.688	0.090	0.000
10	W.H. PUGH OIL CO.	Fee TLE	0.316	0.418	0.734	0.033	0.000
11	CHARLES R. & MARILYN A. ENGEL	Fee	0.465	0.045	0.510	0.000	0.000
100	WE ENERGIES ELECTRIC	ROR	----	----	----	----	----
101	WE ENERGIES GAS	ROR	----	----	----	----	----
103	AT&T WISCONSIN	ROR	----	----	----	----	----

A Cast Iron Monument
w/ A Brass Cap
Y 172998.34
X 596640.31

HIGHWAY	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
I-94	1101-1(3)	VARIES	1956
I-94	2382	VARIES	1935
STH 11	1320-03-20	VARIES	2000
STH 11	2665	94'	1927
EAST FRONTAGE ROAD	1320-03-20	VARIES	2000
EAST FRONTAGE ROAD	1032-01-21	VARIES	1969
58TH ROAD	TOWN ROAD V.B. P.62	49.50'	1843

NOTE: SEE CONTROLLED ACCESS PLAT 1320-00-27

SEE TPP
1030-24-20-4.05

I-94 PISTA 744+39.94 Y 173708.68 X 594056.69 PC STA 739+64.64 PT STA 749+14.88 DELTA 3°53'20" D 0°24'33" L 950.25' R 14000.00' LCH 950.06' LCB N 2°02'07" W	EAST FRONTAGE ROAD PISTA 3736+95.60 Y 172977.24 X 594268.22 PC STA 3735+51.55 PT STA 3738+39.42 DELTA 5°29'53" D 1°54'35" L 287.87' R 3000.00' LCH 287.76' LCB N 1°13'51" W	EAST FRONTAGE ROAD PISTA 3743+74.44 Y 173656.07 X 594286.21 PC STA 3740+20.91 PT STA 3746+88.34 DELTA 46°43'12" D 7°00'00" L 667.43' R 818.51' LCH 649.09' LCB N 24°52'41" E	EAST FRONTAGE ROAD PISTA 3755+01.36 Y 174433.03 X 595156.36 PC STA 3750+73.45 PT STA 3758+62.03 DELTA 55°12'04" D 7°00'00" L 788.58' R 818.51' LCH 758.44' LCB N 20°38'16" E
--	--	---	---

TRANSPORTATION PROJECT PLAT NO: 1030-24-20 - 4.02 AMENDMENT NO: 3

AMENDS PARCEL 100 OF TPP 1030-24-20-4.02 AMENDMENT NO: 2, RECORDED AS DOCUMENT 2288420.

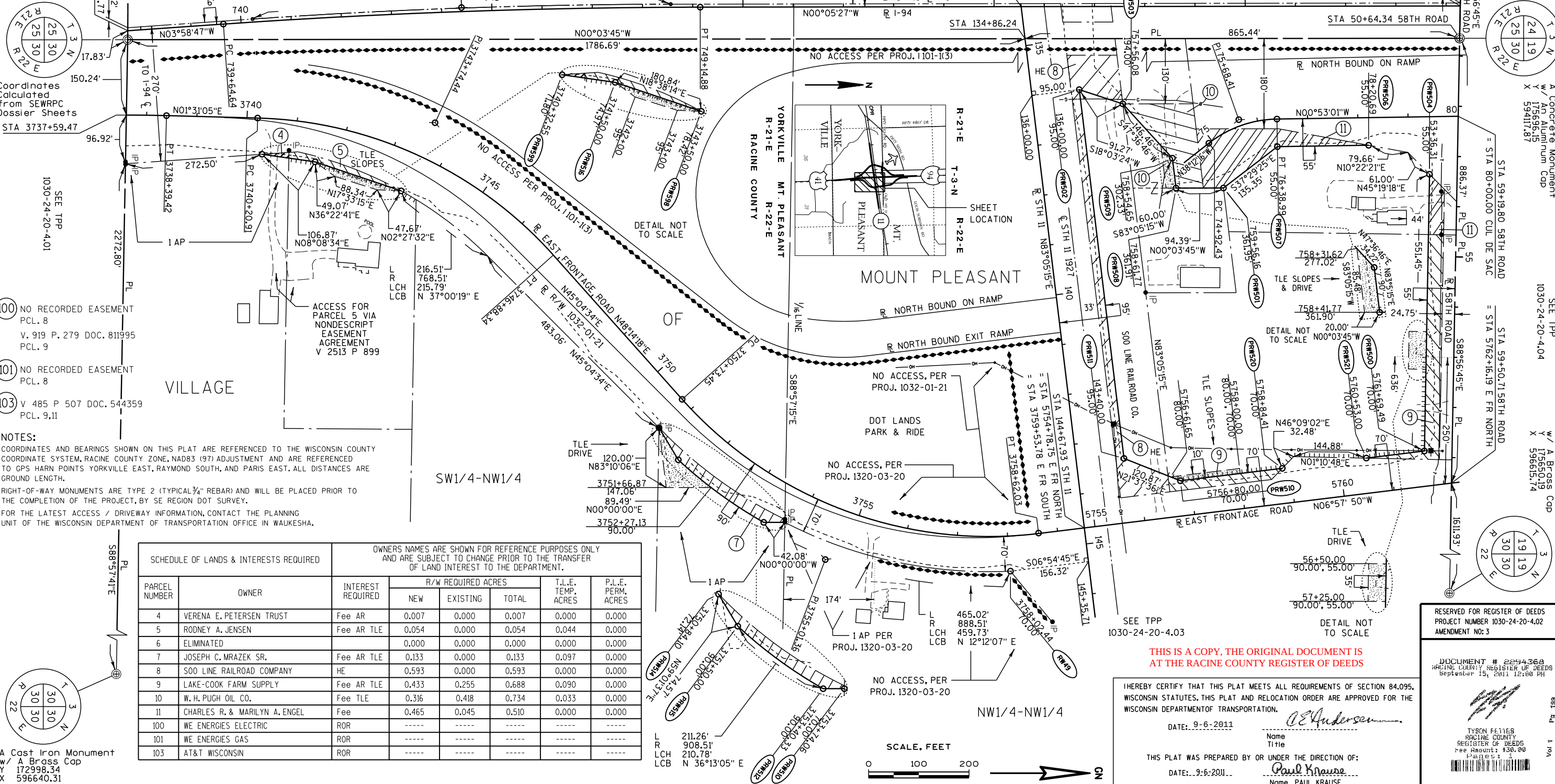
THAT PART OF THE SW1/4 OF THE NW1/4 AND THE NW1/4 OF THE NW1/4, SECTION 30, TOWN 3 NORTH, RANGE 22 EAST, VILLAGE OF MT. PLEASANT, RACINE COUNTY, WISCONSIN.

RELOCATION ORDER IH-94/STH 11 RACINE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.



THIS IS A COPY, THE ORIGINAL DOCUMENT IS AT THE RACINE COUNTY REGISTER OF DEEDS

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE: 9-6-2011

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 9-6-2011

Name
Title
Paul Krause
Name PAUL KRAUSE

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1030-24-20-4.02
AMENDMENT NO: 3

DOCUMENT # 2294368
RACINE COUNTY REGISTER OF DEEDS
September 15, 2011 12:00 PM

TYSON FELLES
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: \$30.00
Page: 1

A Concrete Monument
w/ An Aluminum Cap
Y 175696.15
X 594117.87

SEE TPP
1030-24-20-4.04

PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED ACRES			T.L.E. TEMP. ACRES	P.L.E. PERM. ACRES
			NEW	EXISTING	TOTAL		
8	SOO LINE RAILROAD COMPANY	HE TLE	0.432	0.000	0.432	0.155	0.000
9	LAKE-COOK FARM SUPPLY	Fee	0.062	0.000	0.062	0.000	0.000
12	WALTER THOMAS HARMANN	TLE	0.000	0.000	0.000	0.123	0.000
13	JAY D. & JANE E. WILDFONG	TLE	0.000	0.000	0.000	0.010	0.000
14	KAREN A. SCHUTTEN	Fee AR TLE	0.252	0.129	0.381	0.021	0.000
100	WE ENERGIES ELECTRIC	ROR	----	----	----	----	----
103	AT&T WISCONSIN	ROR	----	----	----	----	----

TRANSPORTATION PROJECT PLAT NO: 1030-24-20 - 4.03 AMENDMENT NO: 1

AMENDS PARCEL 100 OF TPP 1030-24-20-4.03, RECORDED AS DOCUMENT 2240908.

THAT PART OF PARCEL 2 OF CSM 1085, LOCATED IN AND INCLUDING THAT PART OF THE NE1/4 OF THE NW1/4, AND THE NW1/4 OF THE NW1/4, SECTION 30, TOWN 3 NORTH, RANGE 22 EAST, VILLAGE OF MT. PLEASANT, RACINE COUNTY, WISCONSIN.

RELOCATION ORDER IH-94/STH 11 RACINE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

HIGHWAY	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
STH 11	1320-03-20	VARIES	2000
STH 11	2665	94'	1927
EAST FRONTAGE ROAD	1320-03-20	VARIES	2000
EAST FRONTAGE ROAD	1032-01-21	VARIES	1969
58TH ROAD	TOWN ROAD V. B P.62	49.50'	1843

NOTE: EXISTING RIGHT-OF-WAY FOR STH 11 IS MEASURED IN METERS PER PROJECT 1320-03-20

NOTE: SEE CONTROLLED ACCESS PLAT 1320-00-27

STA 59+50.71 58TH ROAD
= STA 5762+15.17 E FR NORTH

STA 50+64.34 58TH ROAD

TLE FOR BUILDING
REMOVAL

5759+55.00
65', 85'
5759+10.00
65', 85'

DETAIL NOT
TO SCALE

SEE TPP
1030-24-20-4.02

NW1/4-NW1/4

STA 144+67.93 STH 11
= STA 5754+78.75 E FR NORTH
= STA 3759+53.78 E FR SOUTH

L 59.59'
R 818.51'
LCH 59.58'
LCB N 04°52'37" W

SEE TPP
1030-24-20-4.02

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF DOCUMENT 2237987, OF TRANSPORTATION PROJECT PLATS IN THE RACINE COUNTY REGISTER OF DEEDS.

NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, RACINE COUNTY ZONE, NAD83 (97) ADJUSTMENT AND ARE REFERENCED TO GPS HARN POINTS YORKVILLE EAST, RAYMOND SOUTH, AND PARIS EAST. ALL DISTANCES ARE GROUND LENGTH.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT, BY SE REGION DOT SURVEY.

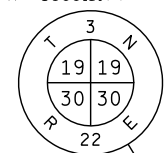
FOR THE LATEST ACCESS / DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

SCALE, FEET

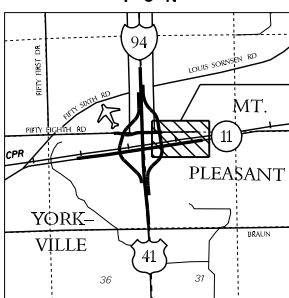
0 100 200

EAST FRONTAGE ROAD SOUTH
PISTA 3755+01.36
Y 174433.03
X 595156.36
PC STA 3750+73.45
PT STA 3758+62.03
DELTA 55°12'04"
D 7°00'00"
L 788.58'
R 818.51'
LCH 758.44'
LCB N 20°38'16" E

A Cast Iron Monument
w/ A Brass Cap
Y 175650.19
X 596615.74



R-21-E T-3-N R-22-E



YORKVILLE MT. PLEASANT
R-21-E R-22-E
RACINE COUNTY

SHEET LOCATION

100 NO RECORDED EASEMENT
PCL. 8

103 V 485 P 507 DOC. 544359
PCL. 14

THIS IS A COPY. THE ORIGINAL DOCUMENT IS
AT THE RACINE COUNTY REGISTER OF DEEDS

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095,
WISCONSIN STATUTES. THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE
WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE: 9-6-2011

Name
Title

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 9-6-2011

Name
Title

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1030-24-20-4.03
AMENDMENT NO: 1

DOCUMENT # 2294369
RACINE COUNTY REGISTER OF DEEDS
September 15, 2011 12:00 PM



FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF DOCUMENT 2237987, OF TRANSPORTATION PROJECT PLATS IN THE RACINE COUNTY REGISTER OF DEEDS.

NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, RACINE COUNTY ZONE, NAD83 (97) ADJUSTMENT AND ARE REFERENCED TO GPS HARN POINTS YORKVILLE EAST, RAYMOND SOUTH, AND PARIS EAST. ALL DISTANCES ARE GROUND LENGTH.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT, BY SE REGION DOT SURVEY.

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

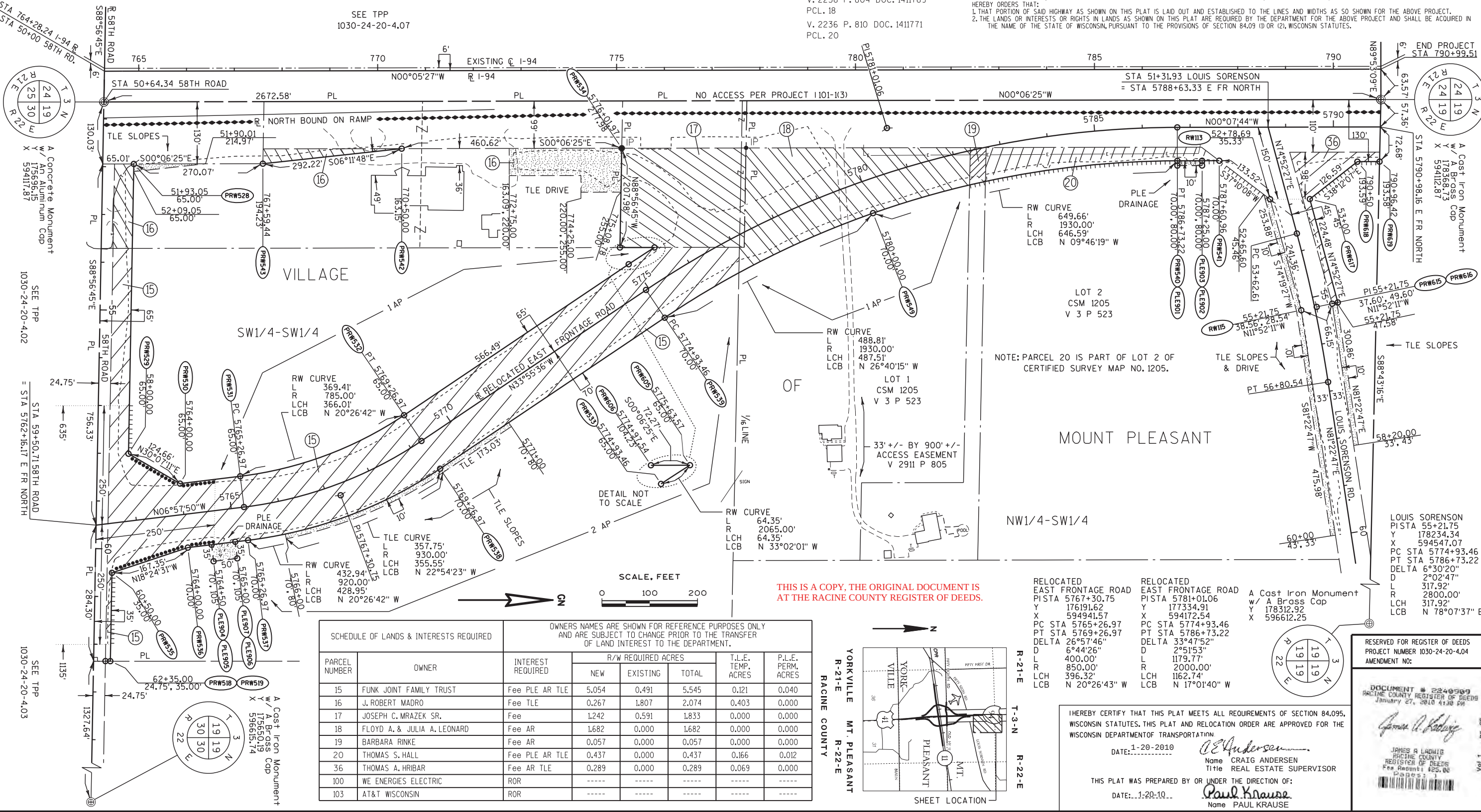
HIGHWAY	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
I-94	1101-1(3)	VARIES	1956
I-94	2382	VARIES	1935
58TH ROAD	TOWN ROAD V.B P.62	49.50'	1843
LOUIS SORENSON ROAD	RACINE & BURLINGTON TERRITORIAL ROAD	66'	1846

- 100 V. 2236 P. 810 DOC. 1411771 PCL. 20
V. 1766 P. 752 DOC. 1176978 PCL. 18
V. 2236 P. 804 DOC. 1411769 PCL. 18
V. 2236 P. 807 DOC. 1411770 PCL. 19
103 V. 2236 P. 807 DOC. 1411770 PCL. 19
V. 2236 P. 804 DOC. 1411769 PCL. 18
V. 2236 P. 810 DOC. 1411771 PCL. 20

TRANSPORTATION PROJECT PLAT NO: 1030-24-20 - 4.04

THAT PART OF LOT 1 AND LOT 2 OF CSM 1205, LOCATED IN AND INCLUDING THAT PART OF THE NW1/4 OF THE SW1/4, AND THAT PART OF THE SW1/4 OF THE SW1/4 OF SECTION 19, TOWN 3 NORTH, RANGE 22 EAST, VILLAGE OF MT. PLEASANT, RACINE COUNTY, WISCONSIN.
RELOCATION ORDER IH-94/STH 11 RACINE COUNTY

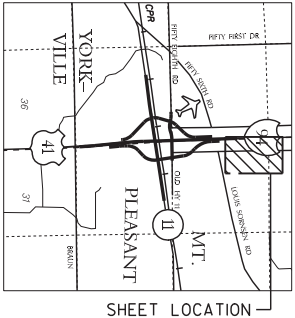
TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.
TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAY OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.



SCHEDULE OF LANDS & INTERESTS REQUIRED			OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.				
PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED ACRES			T.L.E. TEMP. ACRES	P.L.E. PERM. ACRES
			NEW	EXISTING	TOTAL		
15	FUNK JOINT FAMILY TRUST	Fee PLE AR TLE	5.054	0.491	5.545	0.121	0.040
16	J. ROBERT MADRO	Fee TLE	0.267	1.807	2.074	0.403	0.000
17	JOSEPH C. MRAZEK SR.	Fee	1.242	0.591	1.833	0.000	0.000
18	FLOYD A. & JULIA A. LEONARD	Fee AR	1.682	0.000	1.682	0.000	0.000
19	BARBARA RINKE	Fee AR	0.057	0.000	0.057	0.000	0.000
20	THOMAS S. HALL	Fee PLE AR TLE	0.437	0.000	0.437	0.166	0.012
36	THOMAS A. HRIBAR	Fee AR TLE	0.289	0.000	0.289	0.069	0.000
100	WE ENERGIES ELECTRIC	ROR	----	----	----	----	----
103	AT&T WISCONSIN	ROR	----	----	----	----	----

THIS IS A COPY, THE ORIGINAL DOCUMENT IS AT THE RACINE COUNTY REGISTER OF DEEDS.

YORKVILLE
R-21-E
RACINE COUNTY
MT. PLEASANT
R-22-E



RELOCATED EAST FRONTAGE ROAD
PISTA 5767+30.75
Y 176191.62
X 594941.57
PC STA 5765+26.97
PT STA 5769+26.97
DELTA 26°57'46"
D 6°44'26"
L 400.00'
R 850.00'
LCH 396.32'
LCB N 20°26'43" W

RELOCATED EAST FRONTAGE ROAD
PISTA 5781+01.06
Y 177334.91
X 594172.54
PC STA 5774+93.46
PT STA 5786+73.22
DELTA 33°47'52"
D 2°51'53"
L 1179.77'
R 2000.00'
LCH 1162.74'
LCB N 17°01'40" W

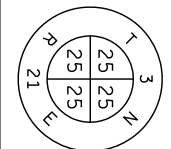
A Cast Iron Monument
w/ A Brass Cap
Y 178312.92
X 596612.25

LOUIS SORENSON
PISTA 55+21.75
Y 178254.34
X 594547.07
PC STA 5774+93.46
PT STA 5786+73.22
DELTA 6°30'20"
D 2°02'47"
L 317.92'
R 2800.00'
LCH 317.92'
LCB N 78°07'37" E

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.
DATE: 1-20-2010
Name CRAIG ANDERSEN
Title REAL ESTATE SUPERVISOR
THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:
DATE: 1-20-10...
Name PAUL KRAUSE

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1030-24-20-4.04
AMENDMENT NO:
DOCUMENT # 2240989
RACINE COUNTY REGISTER OF DEEDS
January 27, 2010 11:30 PM
JAMES A. LAQUIE
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: \$25.00

A Cast Iron Monument
w/ A Brass Cap
X 173056.26
Y 591480.34



2382.42'
SEE TPP
1030-24-20-4.01
NOTE: THE WITNESS CORNER IS NOT
ON THE EAST & WEST 1/4 LINE

2739+50
LCH
LCB
N 30°27'47" W

521.27'
770.00'
511.37'
N 25°05'38" W

372.06'
760.00'
368.36'
N 30°27'47" W

Witness Corner
A Cast Iron Monument
w/ A Brass Cap
X 173044.10
Y 593877.43

168.86'
65.33'
6.02'
N 03°58'47" W

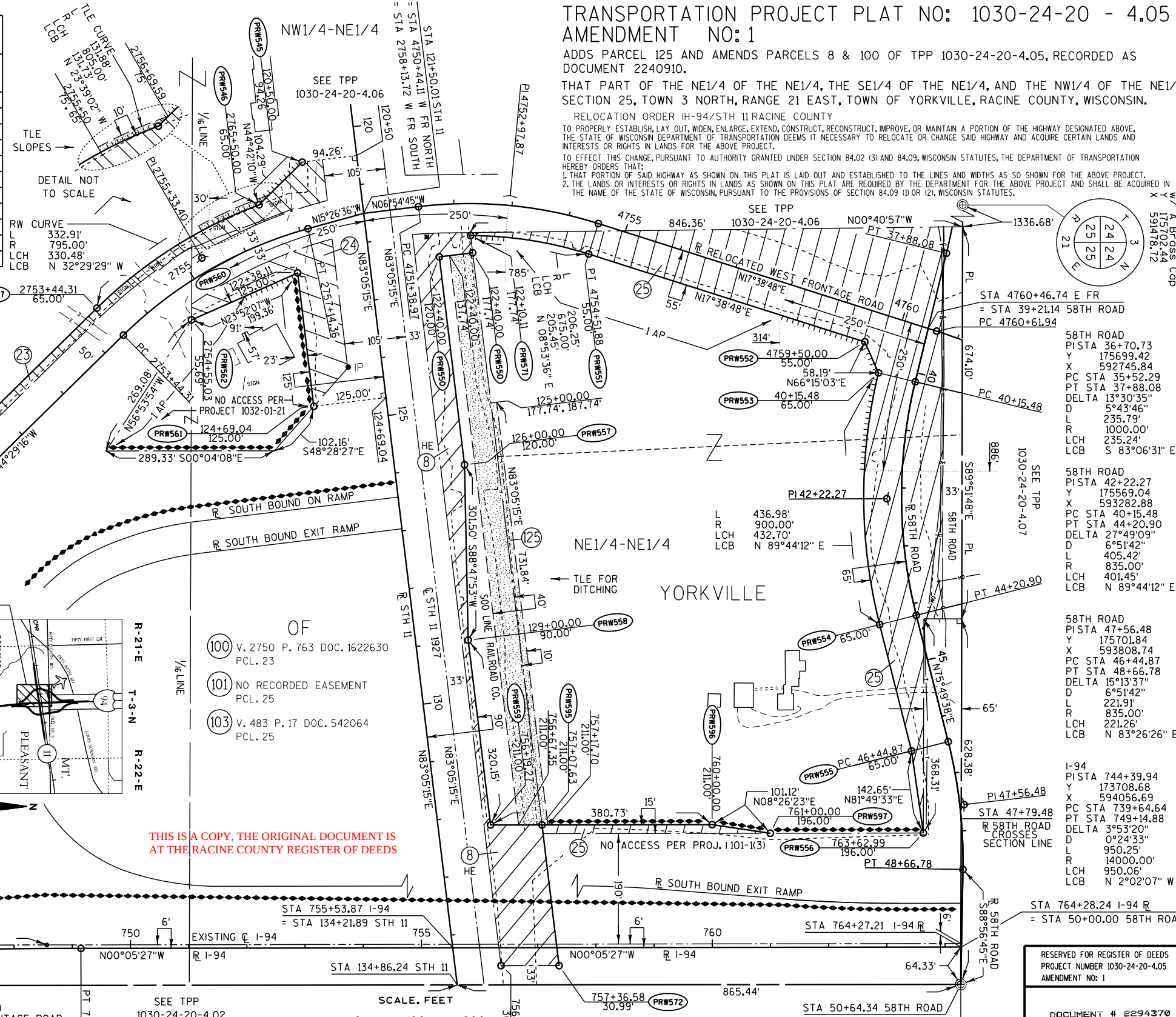
PC 273+64.64
LCH
LCB
N 24°15'03" W

True Corner
No Field Monument
X 173044.02
Y 594120.76
Coordinates Calculated
from SEWRPC Dossier Sheets

SCHEDULE OF LANDS & INTERESTS REQUIRED		OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.				
PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED ACRES			T.L.E. TEMP. ACRES
			NEW	EXISTING	TOTAL	
3	DONALD B. & CAROL LEE	Fee AR	0.042	0.000	0.042	0.000
8	SOO LINE RAILROAD COMPANY	HE TLE	1.249	0.000	1.249	0.907
21	ROBERT L. JR. & ANGELA S. KRENCISZ	Fee AR TLE	0.094	0.000	0.094	0.030
22	JEFFREY D. & BEVERLY L. LEE	Fee AR TLE	0.092	0.000	0.092	0.056
23	MARIA C. VARGAS	Fee AR TLE	0.621	0.000	0.621	0.074
24	YORKVILLE REAL ESTATE ASSC. LLC	Fee AR	0.531	TLE	0.531	0.000
25	13901-58TH ROAD LLC	Fee AR	3.767	0.511	4.278	0.000
125	13901-58TH ROAD LLC	TLE	0.000	0.000	0.000	0.168
100	WE ENERGIES ELECTRIC	ROR	-----	-----	-----	-----
101	WE ENERGIES GAS	ROR	-----	-----	-----	-----
103	AT&T WISCONSIN	ROR	-----	-----	-----	-----

NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY
COORDINATE SYSTEM, RACINE COUNTY ZONE, NAD83 (97) ADJUSTMENT AND ARE REFERENCED
TO GPS HARN POINTS YORKVILLE EAST, RAYMOND SOUTH, AND PARIS EAST, ALL DISTANCES ARE
GROUND LENGTH.
RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO
THE COMPLETION OF THE PROJECT, BY SE REGION DOT SURVEY.
FOR THE LATEST ACCESS / DRIVEWAY INFORMATION, CONTACT THE PLANNING
UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.
FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED AS
SHEET 2 OF 2 OF DOCUMENT 2237987, OF TRANSPORTATION PROJECT
PLATS IN THE RACINE COUNTY REGISTER OF DEEDS.



HIGHWAY	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
I-94	1101-1(3)	VARIES	1956
STH II	1101-1(3)	VARIES	1956
STH II	2665	94'	1927
WEST FRONTAGE ROAD	1032-01-21	VARIES	1969
58th ROAD	1101-1(3)	130'	1956
58th ROAD	WIDTH BY SS 82.31(2)	66'	

DATE: 9-6-2011

DATE: 9-6-2011

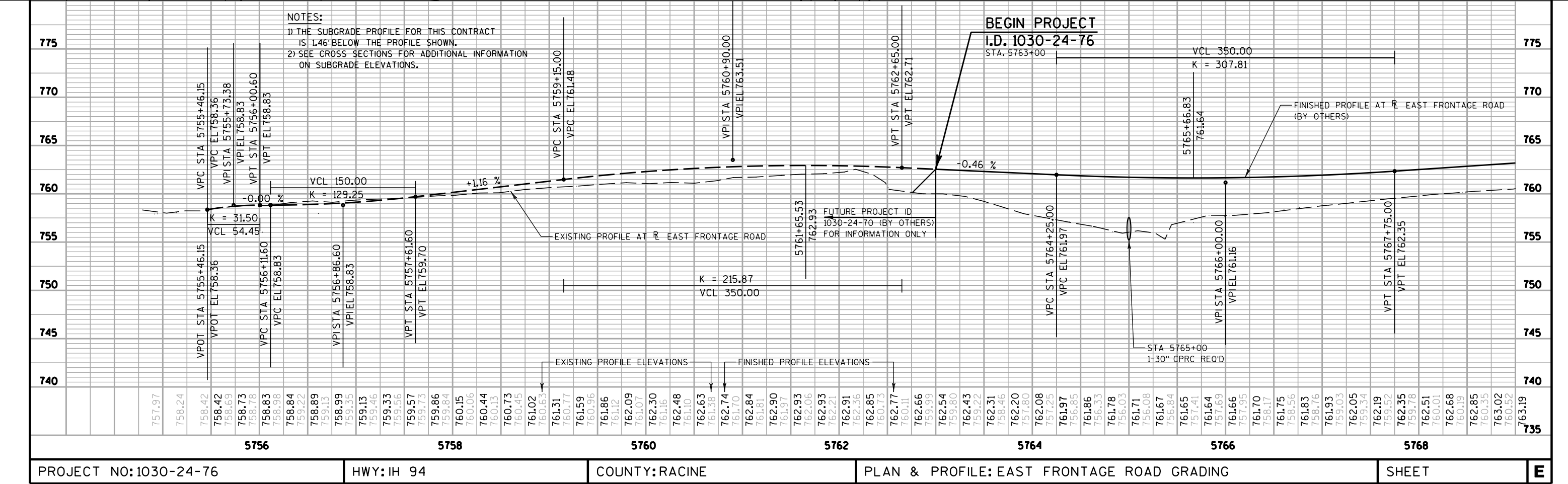
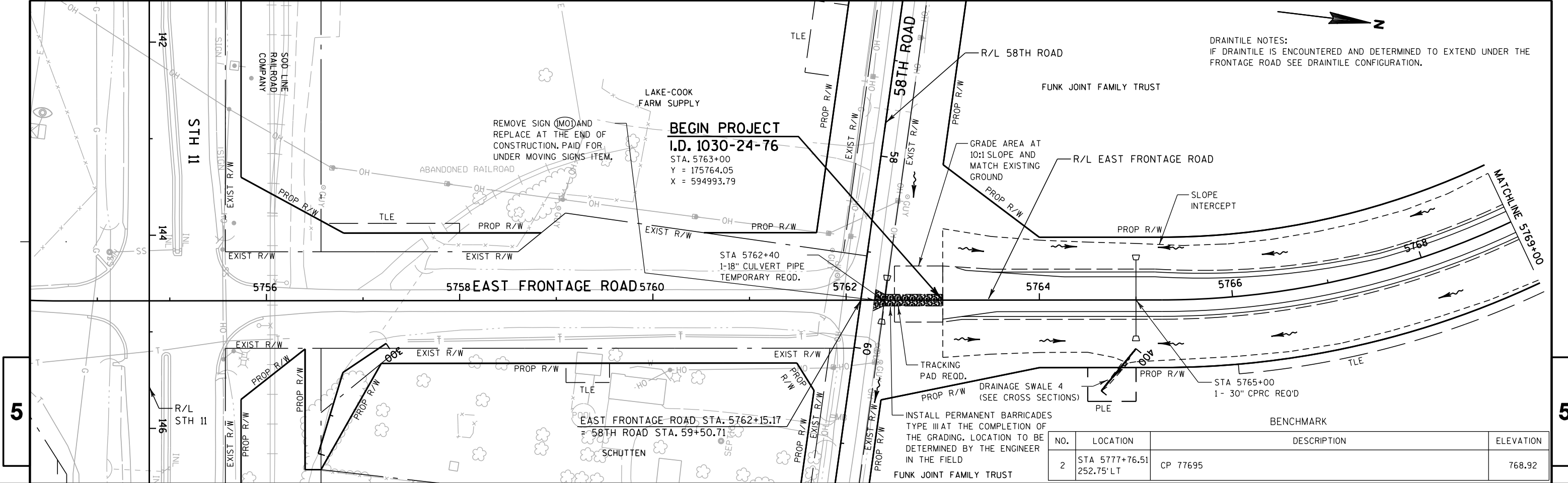
DATE: 9-6-2011

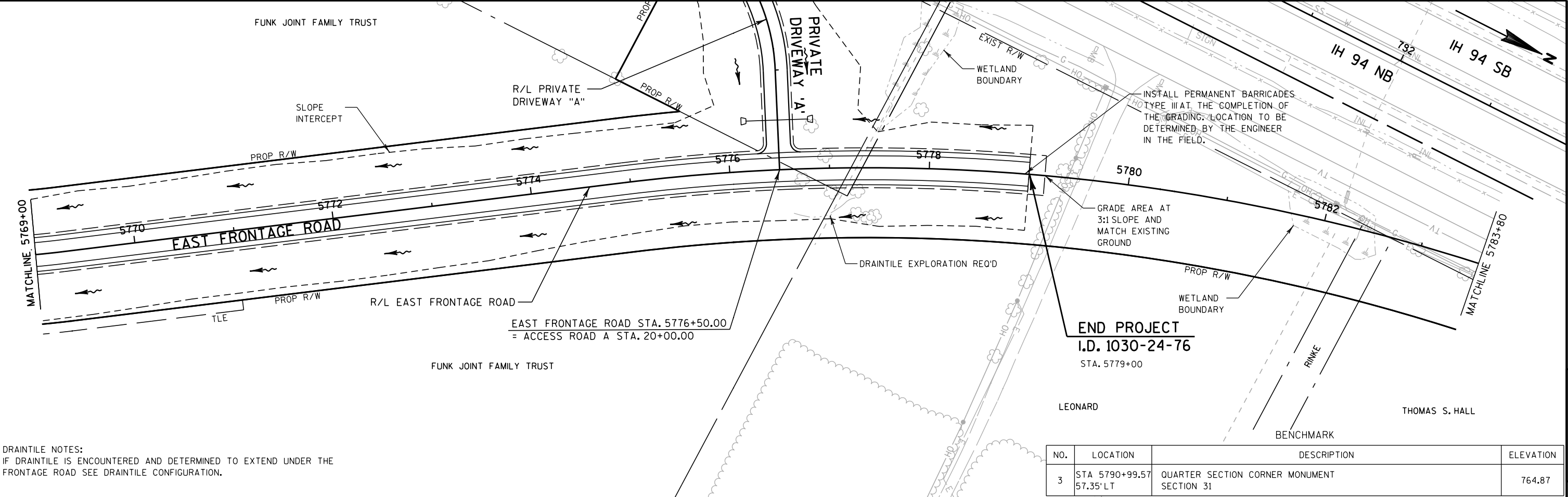
RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1030-24-20-4.05
AMENDMENT NO: 1

DOCUMENT # 2294370
RACINE COUNTY REGISTER OF DEEDS
September 15, 2011 12:00 PM

TYSON FELTES
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: \$38.00
Page: 1

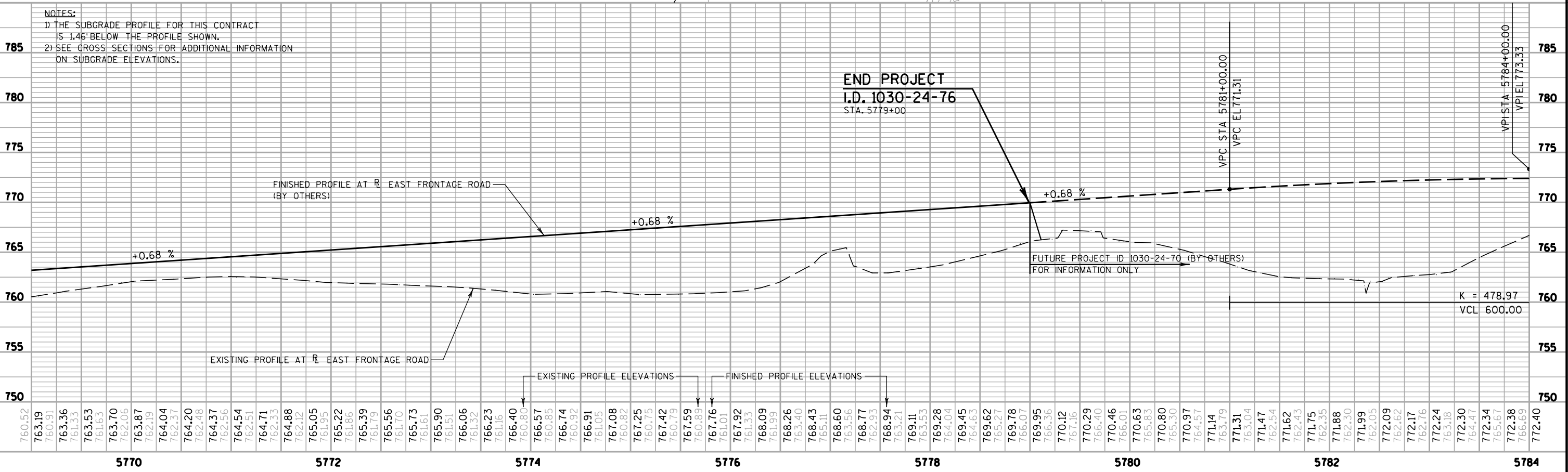
R/W 1030-24-20 4.06A1



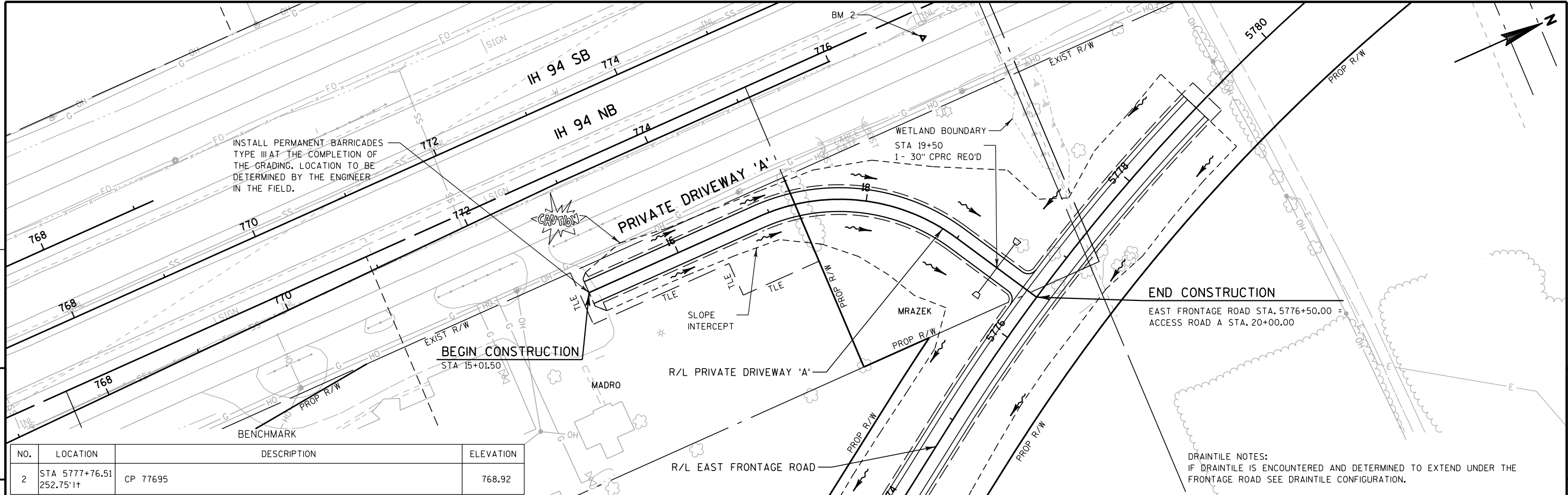


DRAINTILE NOTES:
IF DRAINTILE IS ENCOUNTERED AND DETERMINED TO EXTEND UNDER THE FRONTAGE ROAD SEE DRAINTILE CONFIGURATION.

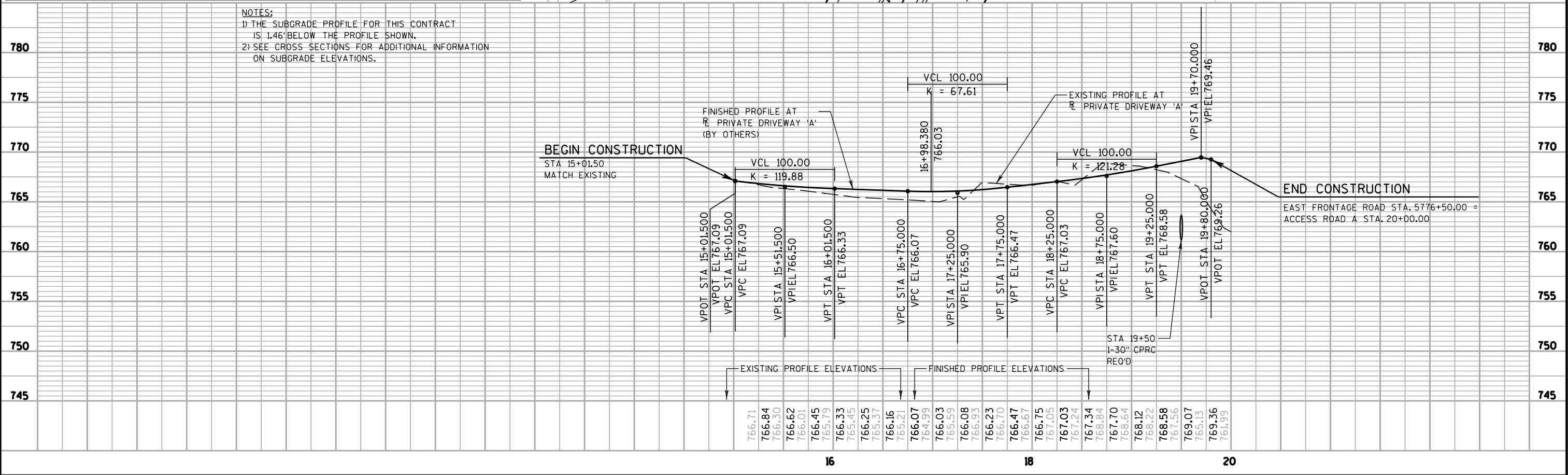
NO.	LOCATION	DESCRIPTION	ELEVATION
3	STA 5790+99.57 57.35' LT	QUARTER SECTION CORNER MONUMENT SECTION 31	764.87



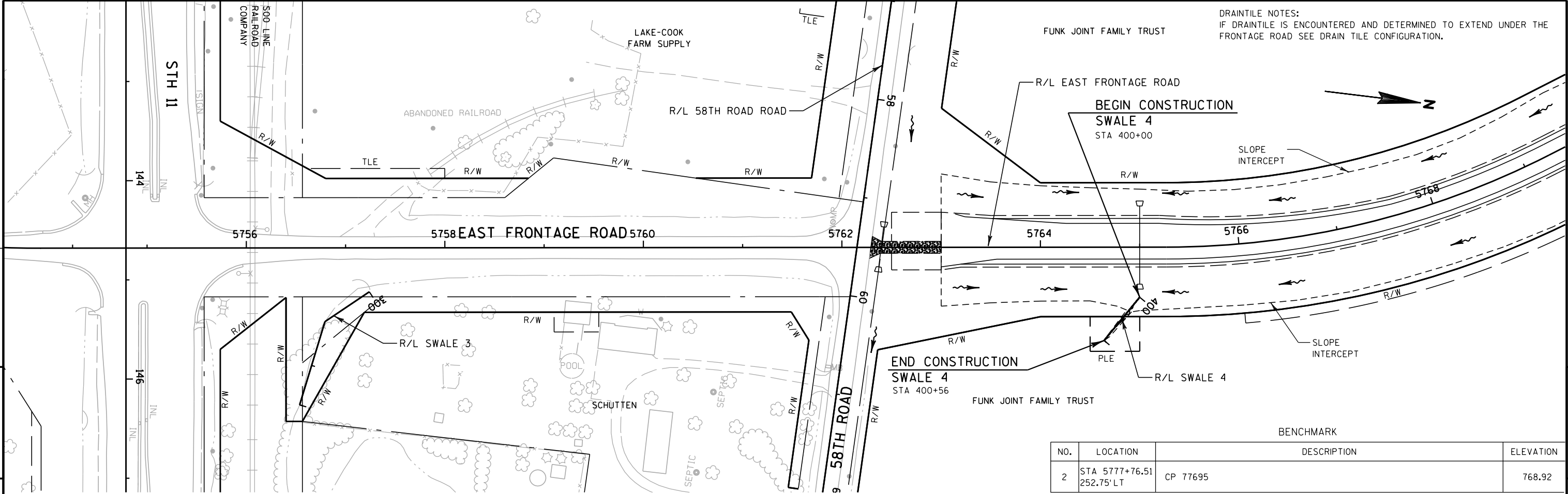
PROJECT NO:1030-24-76	HWY: IH 94	COUNTY: RACINE	PLAN & PROFILE: EAST FRONTAGE ROAD GRADING	SHEET	E
-----------------------	------------	----------------	--	-------	---



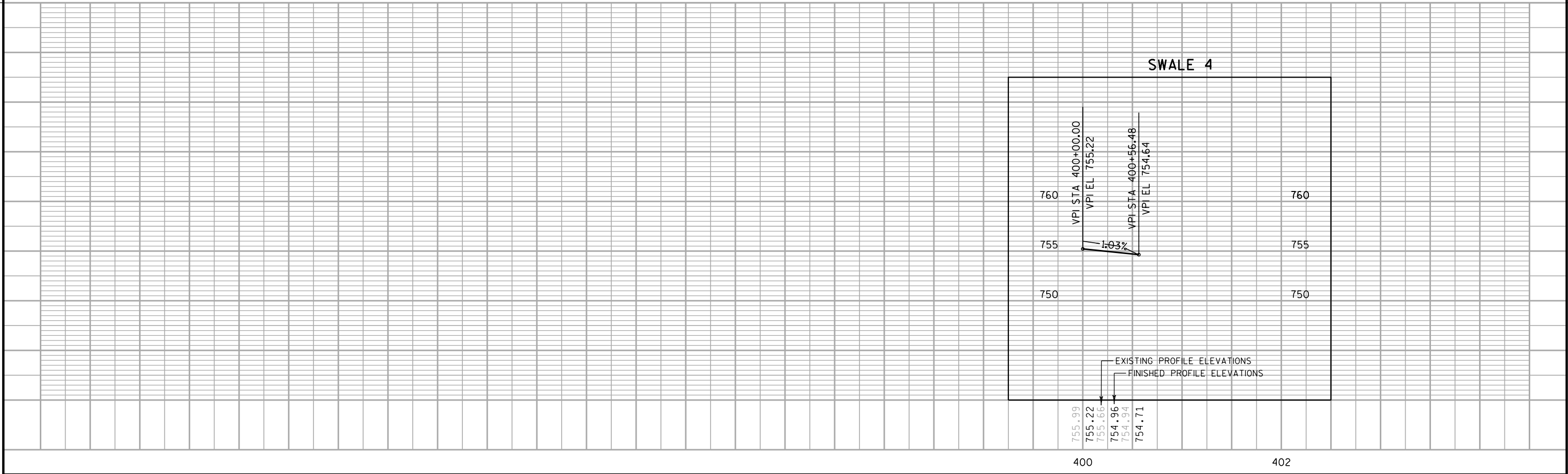
NO.	LOCATION	DESCRIPTION	ELEVATION
2	STA 5777+76.51 252.75'it	CP 77695	768.92

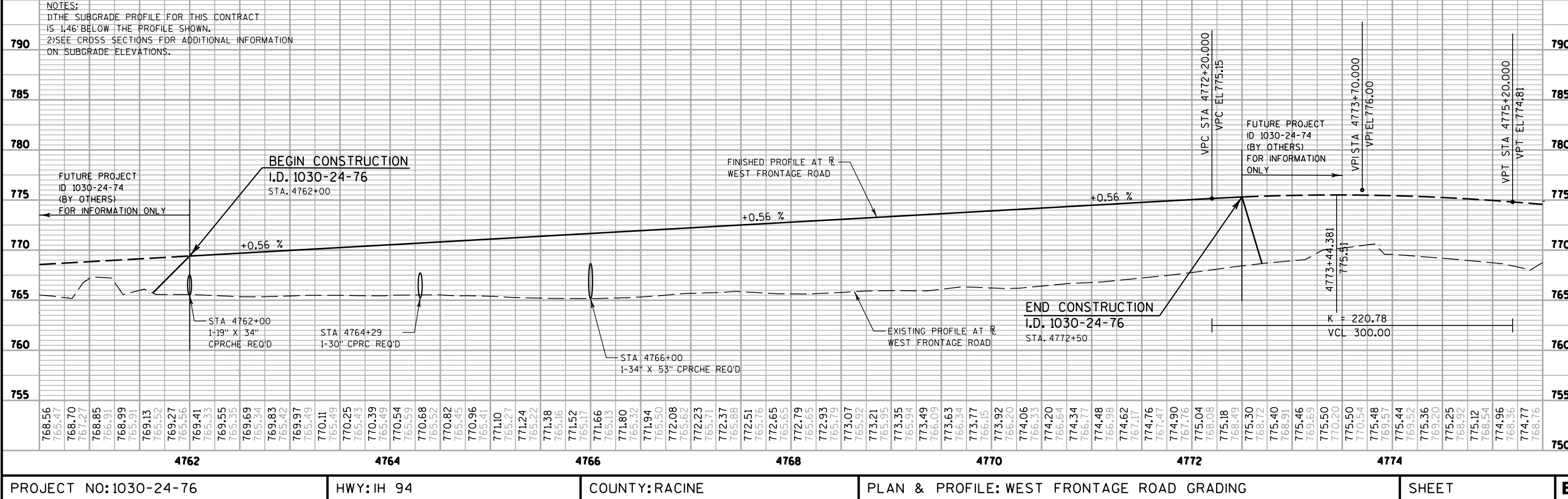
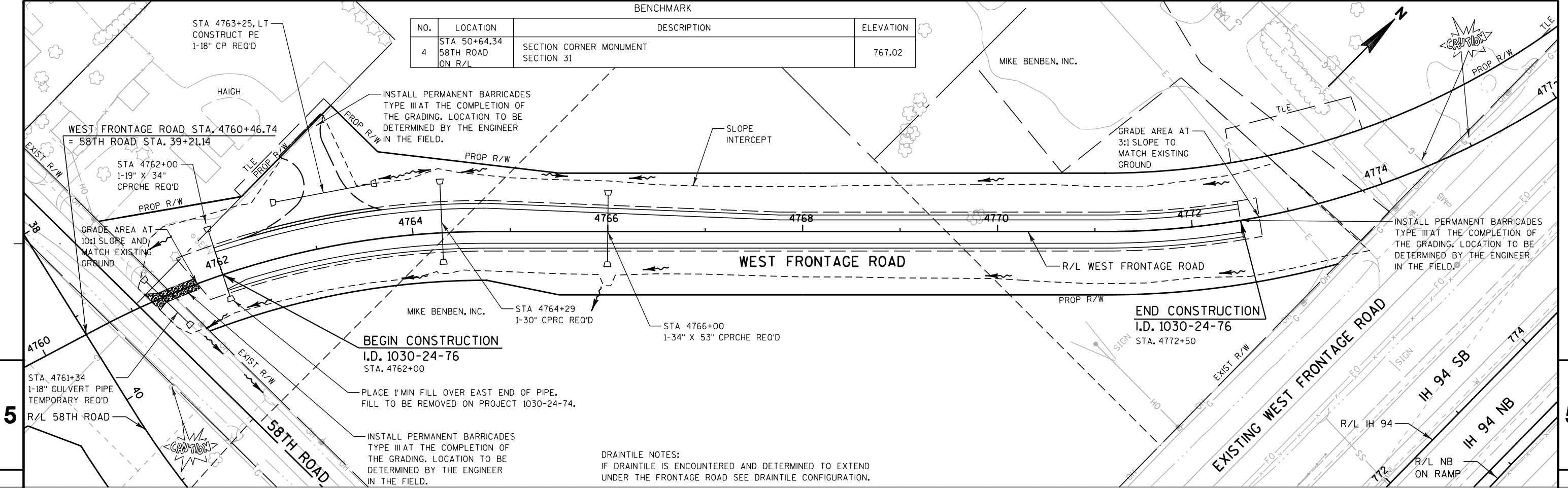


5



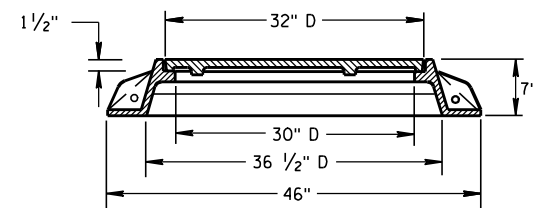
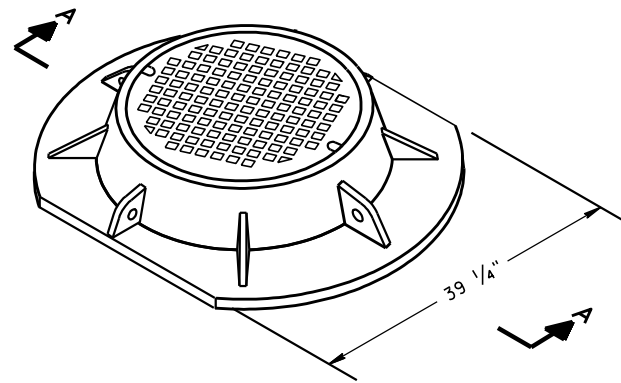
5



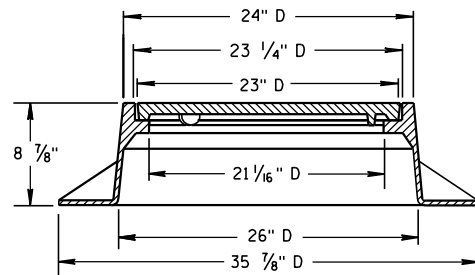
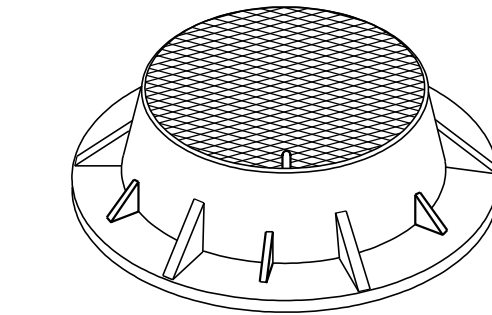


Standard Detail Drawing List

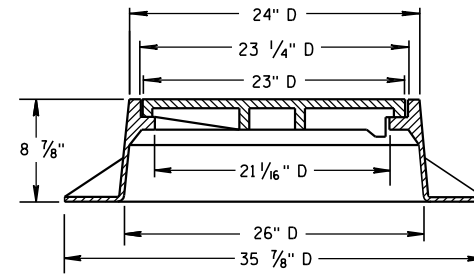
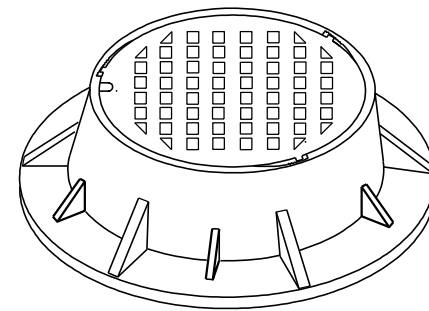
08A05-18D	INLET COVER, TYPE BW, Z	MANHOLE COVERS, TYPE K, J, J-S, L & M
08B09-01	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER	
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS	
08E09-06	SILT FENCE	
08E14-01	TRACKING PAD	
08F01-11	APRON ENDWALLS FOR CULVERT PIPE	
08F02-01	APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE	
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL	
08F07-04	STEEL APRON ENDWALLS FOR CULVERT PIPE AND PIPE ARCH SLOPED SIDE FRAINS	
15A03-01	MARKER POSTS, FLEXIBLE, FOR CULVERT END	
15C04-01	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC	
15C12-03	TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)	
15D29-02	TRAFFIC CONTROL, VEHICLE ENTRANCE/EXIT OR HAUL ROAD	



SECTION A-A
TYPE "K"
(APPROXIMATE WEIGHT 439 LBS.)
FRAME.....216 LBS.
LID.....223 LBS.



TYPE "J"
(APPROXIMATE WEIGHT 267 LBS.)
FRAME.....152 LBS.
LID.....115 LBS.



TYPE "J" SPECIAL
TYPE "B" NON-ROCKING SELF-SEAL LID
(APPROXIMATE WEIGHT 267 LBS.)
FRAME.....158 LBS.
LID.....109 LBS.
(NOTED AS TYPE J-S ON THE DRAINAGE TABLE)

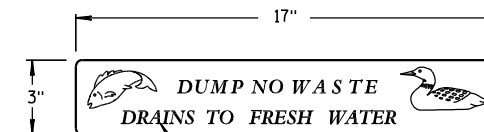
GENERAL NOTES

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.

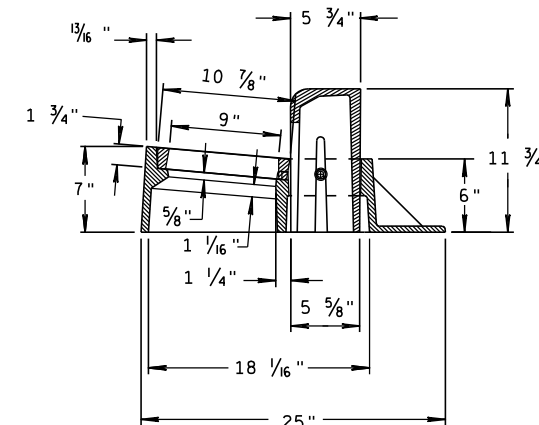
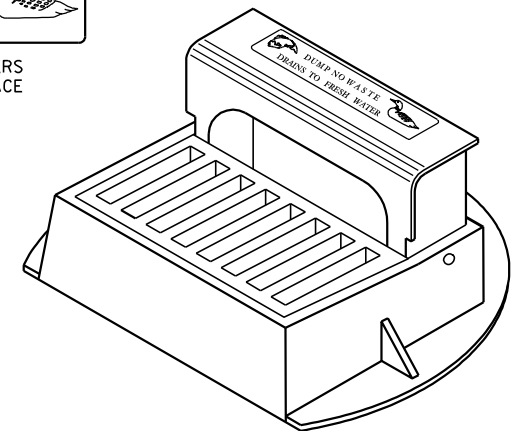
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR MANHOLE COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

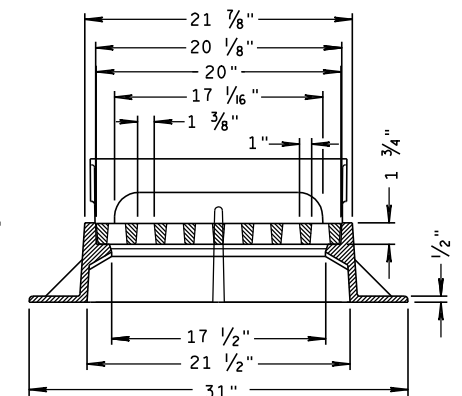
THE ACTUAL WEIGHT OF COVERS MAY VARY WITHIN 5 PERCENT, PLUS OR MINUS, OF THE APPROXIMATE WEIGHT.



LOGO DETAIL



INLET COVER TYPE "Z"
(APPROXIMATE WEIGHT 344 LBS.)
FRAME.....206 LBS.
GRATE.....46 LBS.
CURB BOX.....92 LBS.



INLET COVERS, TYPE BW, Z
MANHOLE COVERS, TYPE
K, J, J-S, L & M

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

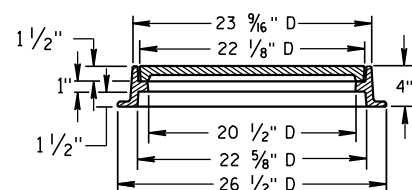
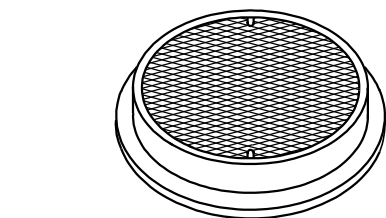
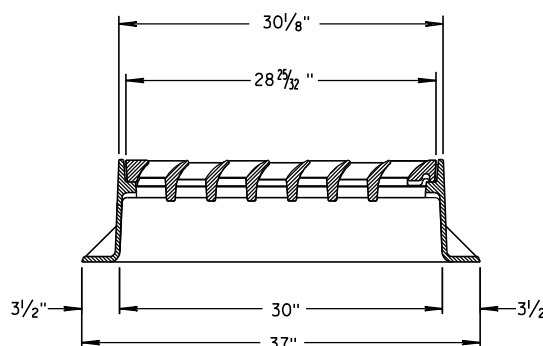
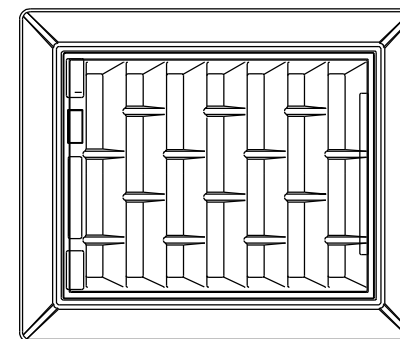
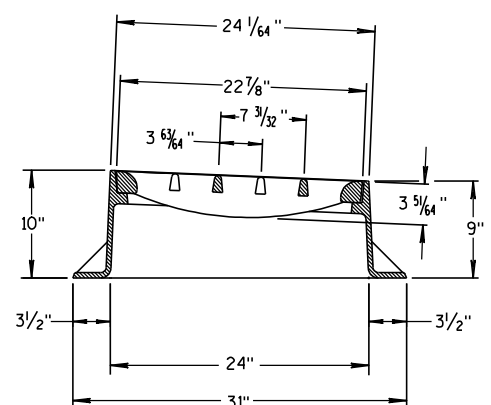
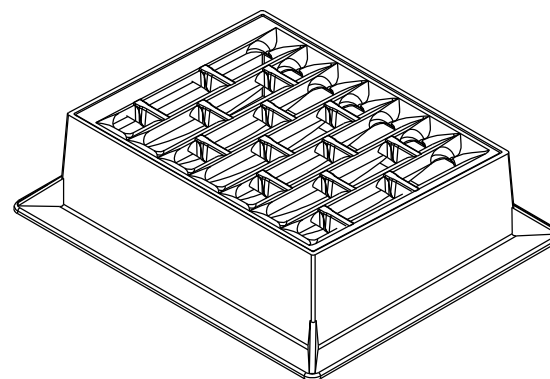
6/5/2012

DATE

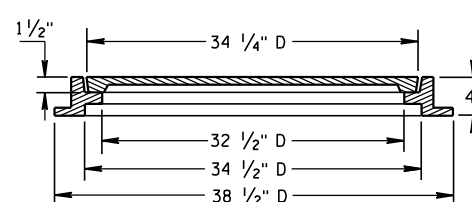
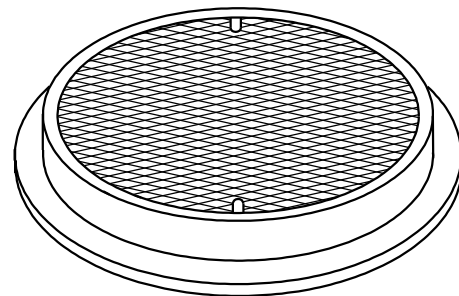
FHWA

/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT
ENGINEER

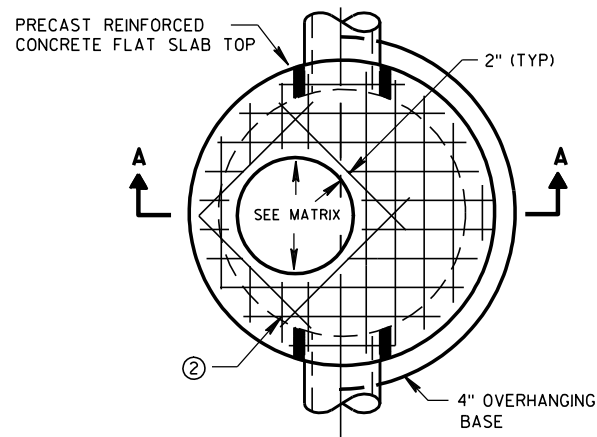
INLET COVER TYPE "BW"



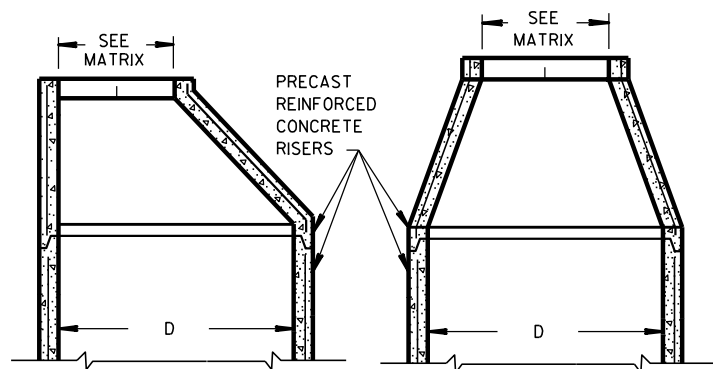
TYPE "L"
(APPROXIMATE WEIGHT 158 LBS.)
FRAME.....81 LBS.
LID.....77 LBS.



TYPE "M"
(APPROXIMATE WEIGHT 377 LBS.)
FRAME.....125 LBS.
LID.....252 LBS.

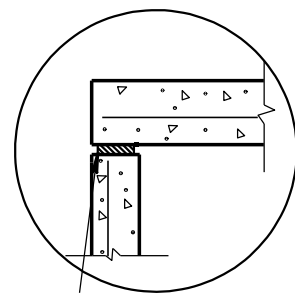


PLAN VIEW CIRCULAR OPENING

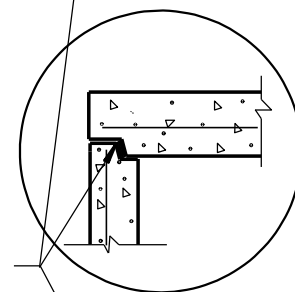


OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

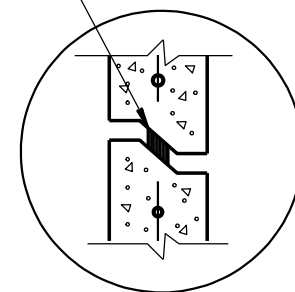
OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP



TOP WITH PLAIN END JOINT



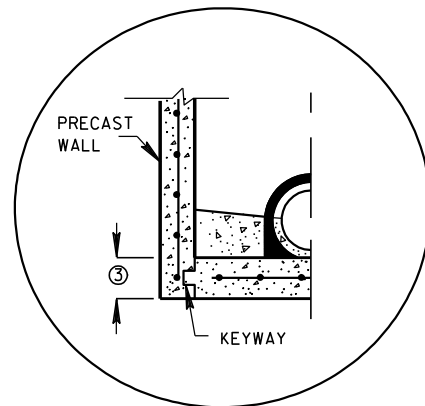
TOP WITH TONGUE AND GROOVE JOINT



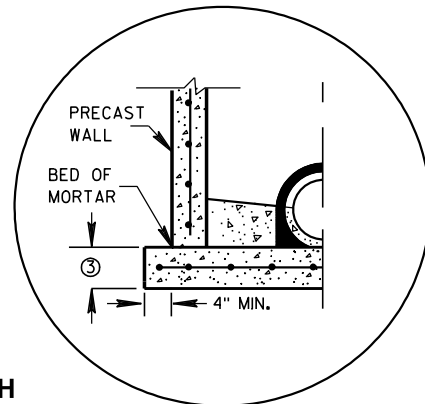
RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"

JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C990 (TYP)

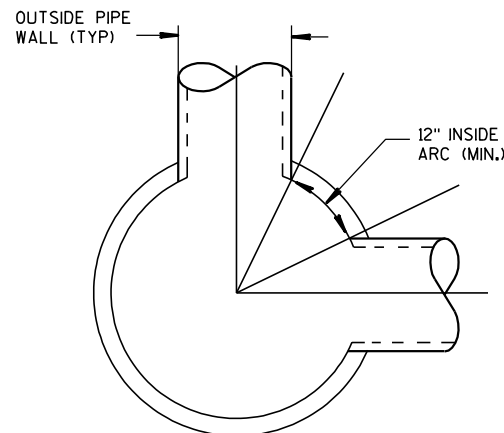


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION

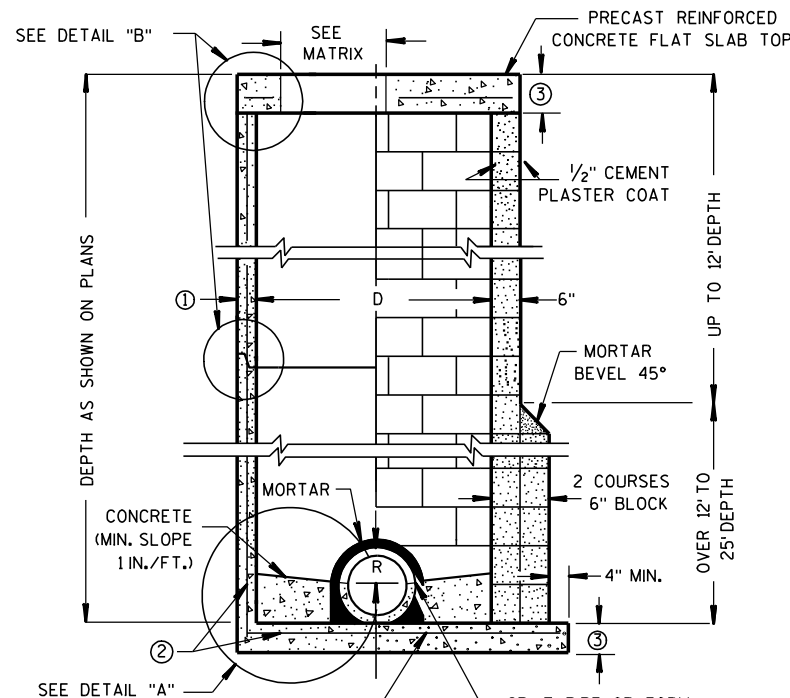


SEPERATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "C"



CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES

PRECAST REINFORCED CONCRETE BLOCK WITH CONCRETE WITH MONOLITHIC BASE CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER

GENERAL NOTES

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. UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST MANHOLE UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF GRANULAR BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES. THE CONE TOPS SHALL BE INSTALLED ON A BED OF MORTAR.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES, AND CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 5 FEET OR LESS IN DEPTH, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF 1/2" AND MEET THE REQUIREMENTS OF ASTM A615.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED. CONCRETE BLOCK WILL NOT BE PERMITTED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

ALL PRECAST MANHOLE UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPERATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

- ① MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT, 5 INCHES FOR 4-FT, 6 INCHES FOR 5-FT, 7 INCHES FOR 6-FT, 8 INCHES FOR 7-FT AND 9 INCHES FOR 8-FT DIAMETER PRECAST MANHOLES.
- ② FOR PRECAST MANHOLES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.
- ③ PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER OF 48" AND LESS SHALL HAVE A MINIMUM THICKNESS OF 6". PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER LARGER THAN 48" SHALL HAVE A MINIMUM THICKNESS OF 8".

MANHOLE COVER OPENING MATRIX

MANHOLE COVER TYPE	C	ALL J'S	K	L	M
OPENING SIZE (FT)					
2 DIA.	X	X		X	
3 DIA.			X		X

PIPE MATRIX

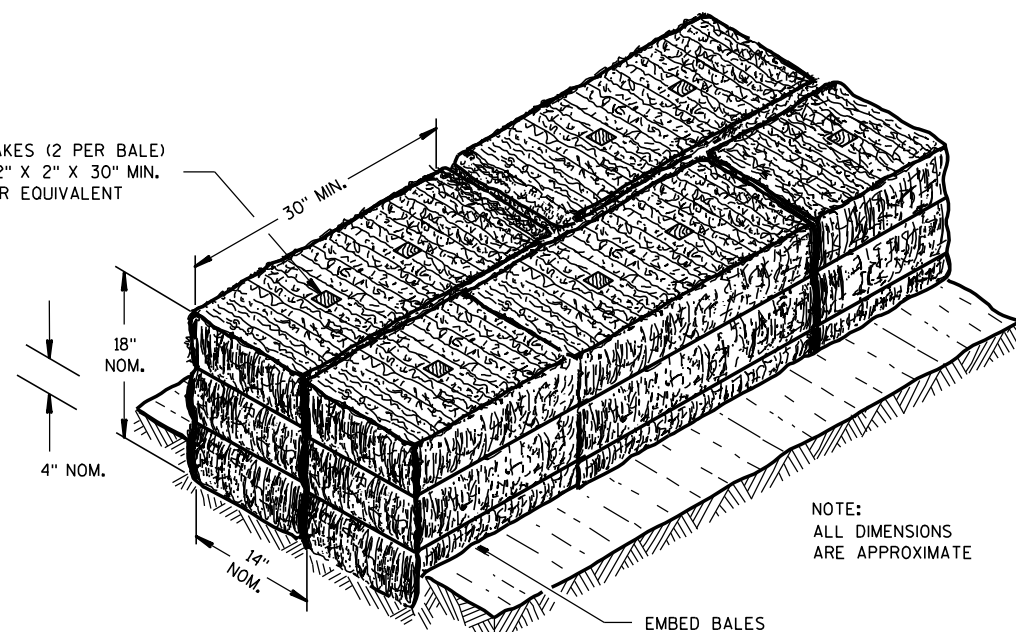
MANHOLE SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18
5-FT	36	24
6-FT	42	36
7-FT	48	36
8-FT	60	42

MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER

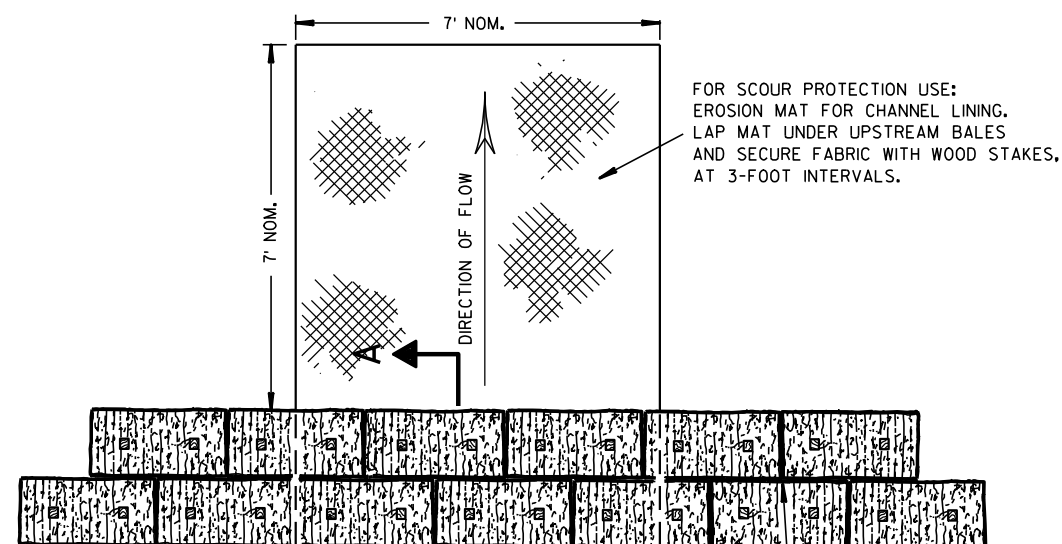
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/5/2012 /S/ Jerry H. Zogg
DATE ROADWAY STANDARDS DEVELOPMENT
FHWA ENGINEER

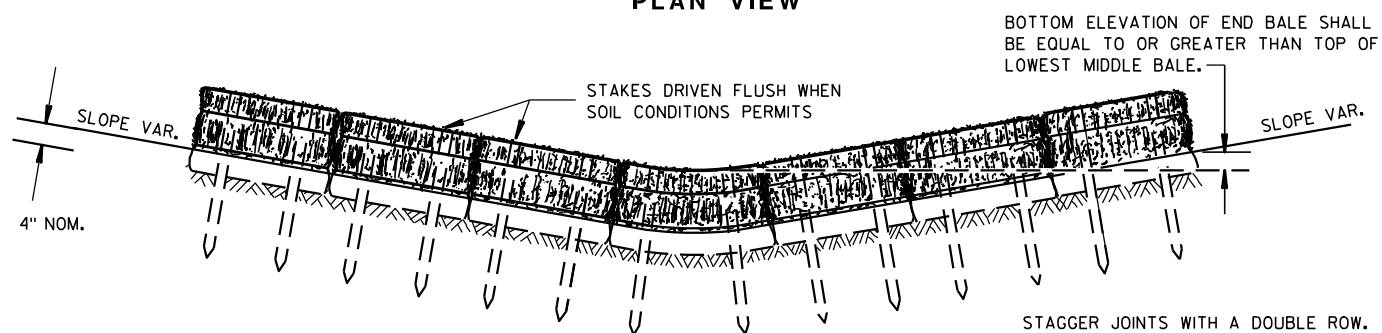
WOOD STAKES (2 PER BALE)
NOMINAL 2" X 2" X 30" MIN.
LENGTH OR EQUIVALENT



SECTION A-A



PLAN VIEW



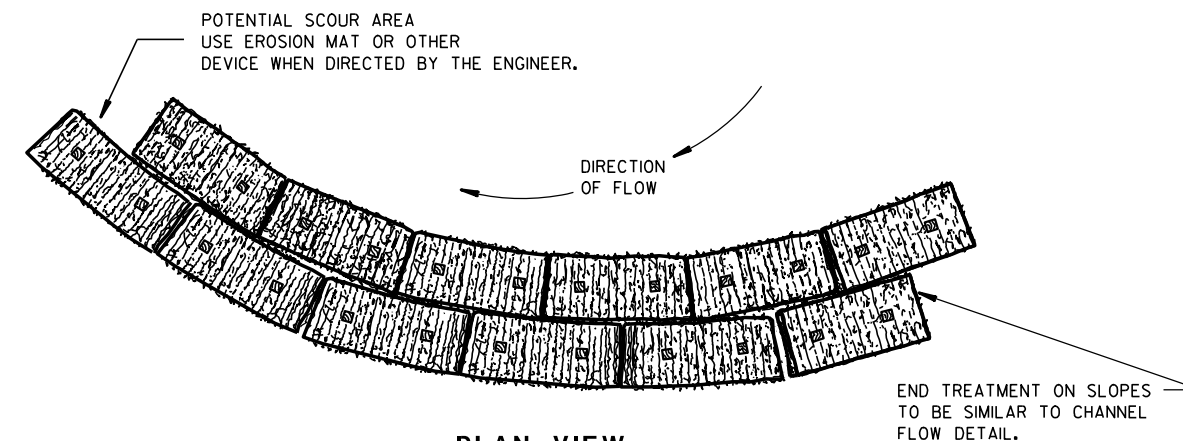
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES ①

GENERAL NOTES

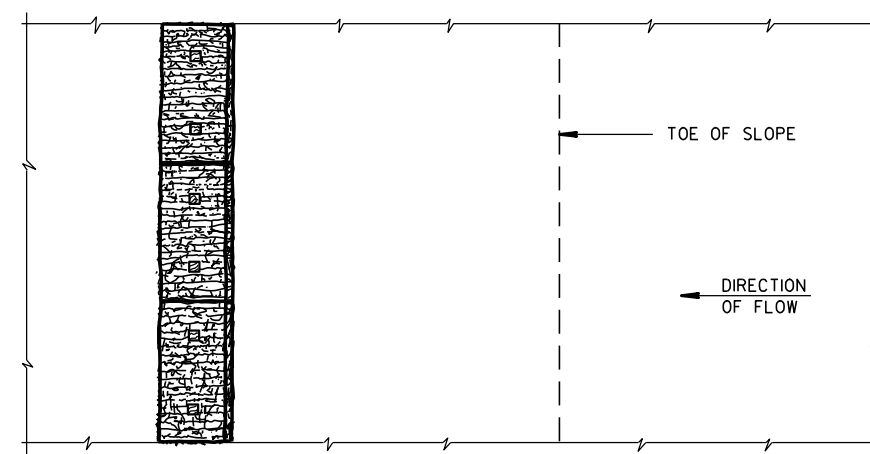
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

- ① TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.

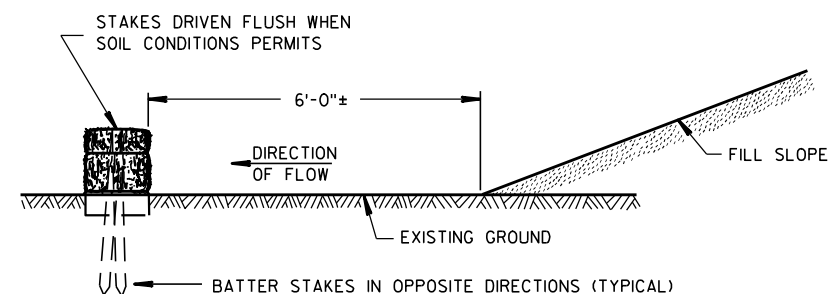


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF
EROSION BALES / TEMPORARY
DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

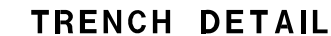
6/04/02
DATE

FHWA

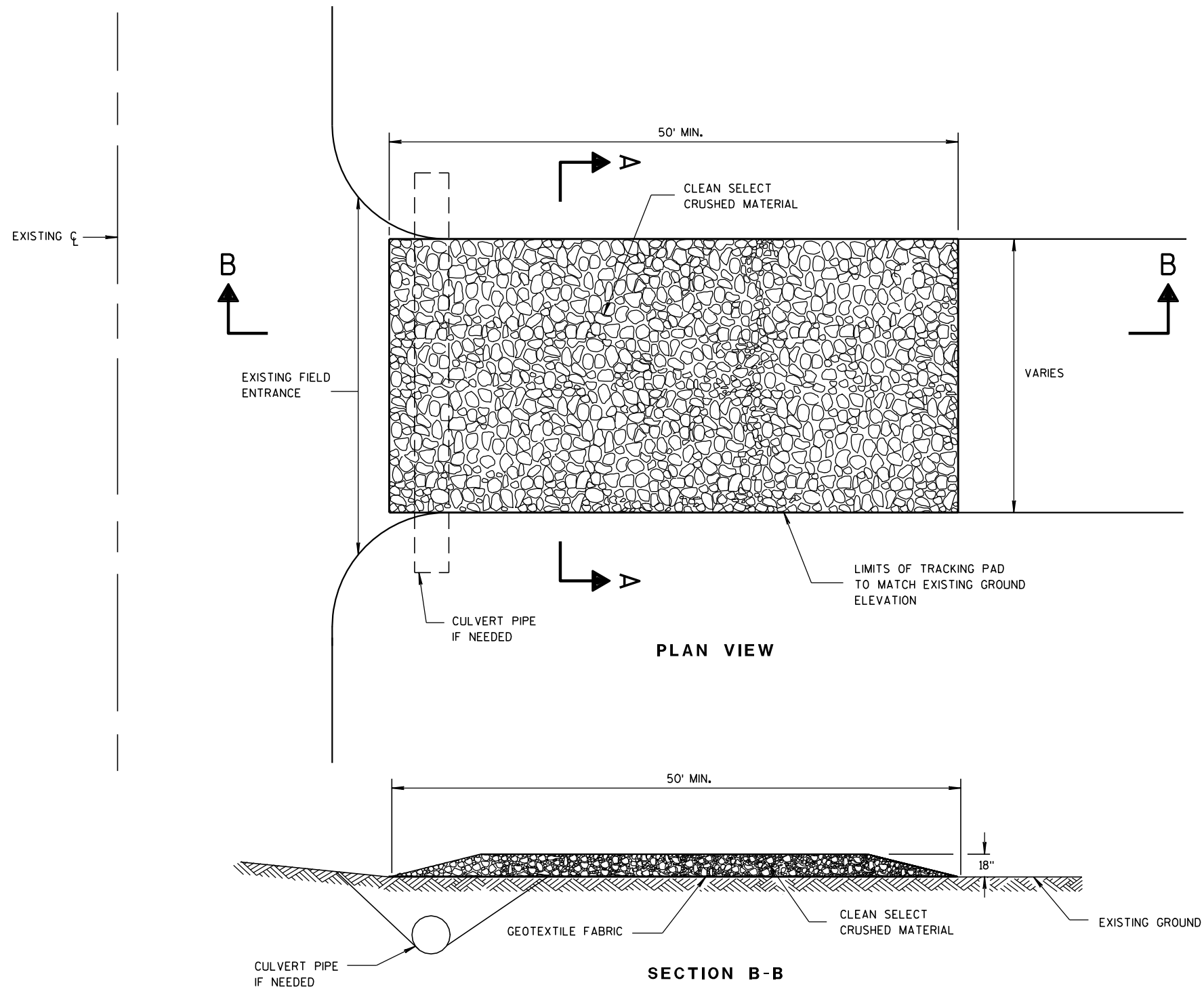
/S/ Beth Canestra
CHIEF ROADWAY DEVELOPMENT ENGINEER



- ① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
- ② FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- ③ WOOD POSTS SHALL BE A MINIMUM SIZE OF 1½" X 1½" OF OAK OR HICKORY.
- ④ SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
- ⑤ CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



SILT FENCE	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 4-29-05 DATE	/S/ <u>Beth Cannestra</u> CHIEF ROADWAY DEVELOPMENT ENGINEER



TRACKING PAD

GENERAL NOTES

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.

TRACKING PAD SHALL BE INSPECTED DAILY. DEFICIENT AREAS SHALL BE REPAIRED OR REPLACED IMMEDIATELY.

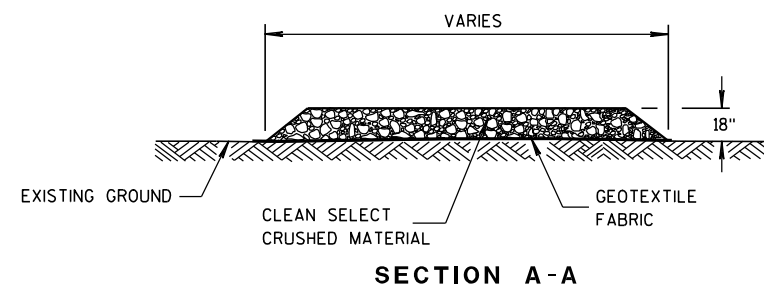
TRACKING PAD TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

TRACKING PAD SHALL BE THE FULL WIDTH OF THE EGRESS POINT.

SURFACE WATER MUST BE PREVENTED FROM PASSING THROUGH THE TRACKING PAD. FLOWS SHALL BE DIVERTED AWAY, AROUND OR CONVEYED UNDER THE TRACKING PAD.

CULVERT PIPE OR OTHER BMP USED TO DIVERT WATER AWAY, AROUND OR UNDER THE TRACKING PAD SHALL BE DESIGNED TO CONVEY THE 2 YEAR - 24 HOUR EVENT.

THE COST OF ADDITIONAL BMP TO DIVERT WATER ARE INCIDENTAL TO THE TRACKING PAD BID ITEM.

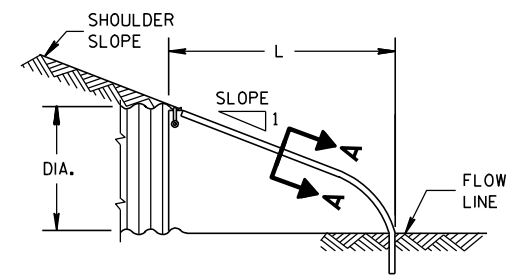
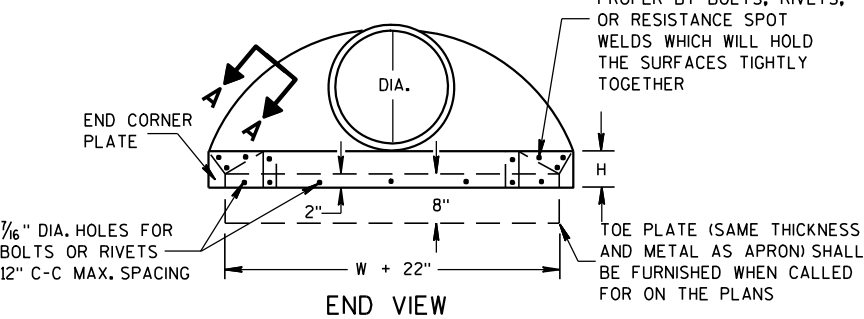
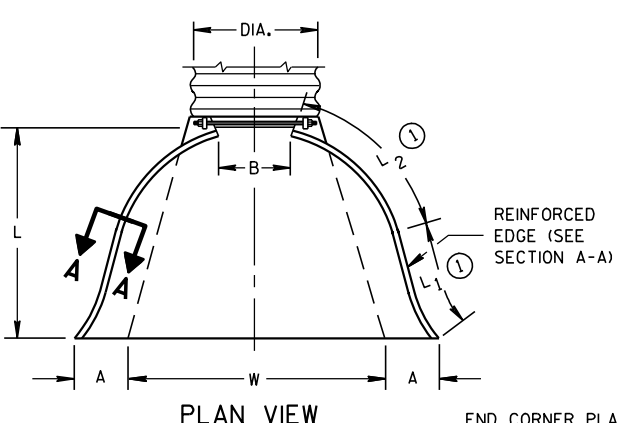
**TRACKING PAD**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
3/24/2011
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT
ENGINEER
FHWA

METAL APRON ENDWALLS												
PIPE DIA. (IN.)	MIN. THICK. (Inches)		DIMENSIONS (Inches)							APPROX. SLOPE	BODY	
	STEEL	ALUM.	A (±1")	B (MAX.)	H (±1")	L (±1½")	L ₁ ①	L ₂ ①	W (±2")			
12	.064	.060	6	6	6	21	12	17½	24	2½ to 1	1 Pc.	
15	.064	.060	7	8	6	26	14	21¾	30	2½ to 1	1 Pc.	
18	.064	.060	8	10	6	31	15	28¼	36	2½ to 1	1 Pc.	
21	.064	.060	9	12	6	36	18	29⅝	42	2½ to 1	1 Pc.	
24	.064	.075	10	13	6	41	18	37¼	48	2½ to 1	1 Pc.	
30	.079	.075	12	16	8	51	18	52¼	60	2½ to 1	1 Pc.	
36	.079	.105	14	19	9	60	24	59¾	72	2½ to 1	2 Pc.	
42	.109	.105	16	22	11	69	24	75⅝	84	2½ to 1	2 Pc.	
48	.109	.105	18	27	12	78	24	81	90	2¼ to 1	3 Pc.	
54	.109	.105	18	30	12	84	30	85½	102	2¼ to 1	3 Pc.	
60	.109x	.105x	18	33	12	87	—	—	114	2 to 1	3 Pc.	
66	.109x	.105x	18	36	12	87	—	—	120	2 to 1	3 Pc.	
72	.109x	.105x	18	39	12	87	—	—	126	2 to 1	3 Pc.	
78	.109x	.105x	18	42	12	87	—	—	132	1½ to 1	3 Pc.	
84	.109x	.105x	18	45	12	87	—	—	138	1½ to 1	3 Pc.	
90	.109x	.105x	18	37	12	87	—	—	144	1½ to 1	3 Pc.	
96	.109x	.105x	18	35	12	87	—	—	150	1½ to 1	3 Pc.	

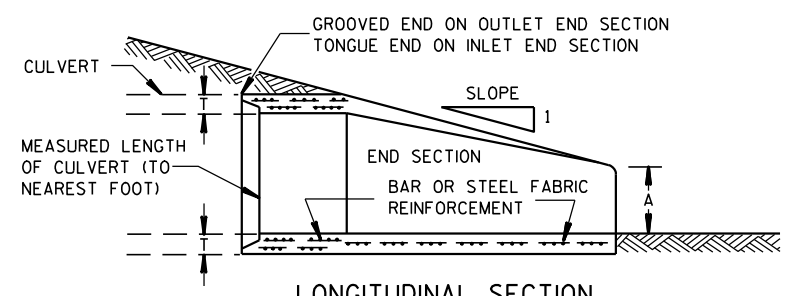
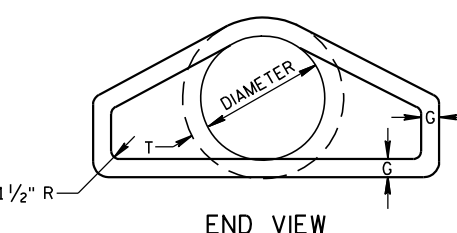
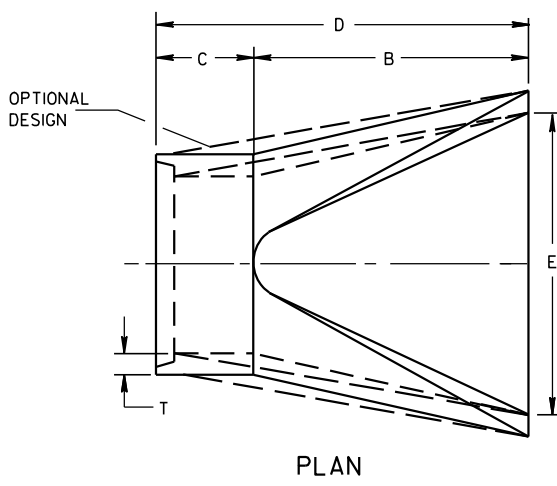
* EXCEPT CENTER PANEL
SEE GENERAL NOTES



SIDE ELEVATION
METAL ENDWALLS

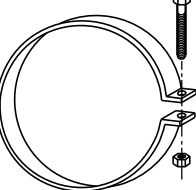
REINFORCED CONCRETE APRON ENDWALLS								
PIPE DIA. (IN.)	DIMENSIONS (Inches)							APPROX. SLOPE
	T	A	B	C	D	E	G	
12	2	4	24	48 ¹ / ₈	72 ¹ / ₈	24	2	3 to 1
15	2 ¹ / ₄	6	27	46	73	30	2 ¹ / ₄	3 to 1
18	2 ¹ / ₂	9	27	46	73	36	2 ¹ / ₂	3 to 1
21	2 ³ / ₄	9	36	37 ¹ / ₂	73 ¹ / ₂	42	2 ³ / ₄	3 to 1
24	3	9 ¹ / ₂	43 ¹ / ₂	30	73 ¹ / ₂	48	3	3 to 1
27	3 ¹ / ₄	10 ¹ / ₂	49 ¹ / ₂	24	73 ¹ / ₂	54	3 ¹ / ₄	3 to 1
30	3 ¹ / ₂	12	54	19 ³ / ₄	73 ¹ / ₂	60	3 ¹ / ₂	3 to 1
36	4	15	63	34 ³ / ₄	97 ³ / ₄	72	4	3 to 1
42	4 ¹ / ₂	21	63	35	98	78	4 ¹ / ₂	3 to 1
48	5	24	72	26	98	84	5	3 to 1
54	5 ¹ / ₂	27	65	^{**} / ₃₃ - ^{**} / ₃₅	^{**} / ₉₈ - ^{**} / ₁₀₀	90	5 ¹ / ₂	2 ¹ / ₅ to 1
60	6	^{**} / ₃₀ - ^{**} / ₃₅	60	39	99	96	5	2 to 1
66	6 ¹ / ₂	^{**} / ₂₄ - ^{**} / ₃₀	^{**} / ₇₂ - ^{**} / ₇₈	^{**} / ₂₁ - ^{**} / ₂₇	99	102	5 ¹ / ₂	2 to 1
72	7	^{**} / ₂₄ - ^{**} / ₃₆	78	21	99	108	6	2 to 1
78	7 ¹ / ₂	^{**} / ₂₄ - ^{**} / ₃₆	78	21	99	114	6 ¹ / ₂	2 to 1
84	8	36	90 ¹ / ₂	21	111 ¹ / ₂	120	6 ¹ / ₂	1 ¹ / ₂ to 1
90	8 ¹ / ₂	41	87 ¹ / ₂	24	111 ¹ / ₂	132	6 ¹ / ₂	1 ¹ / ₂ to 1

* MINIMUM
** MAXIMUM

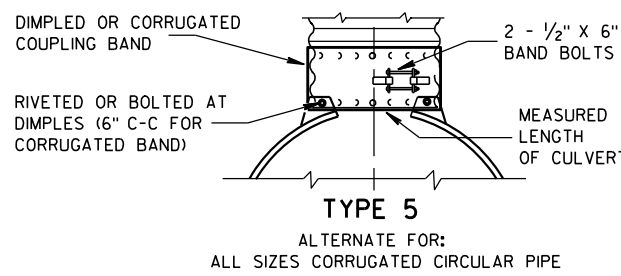
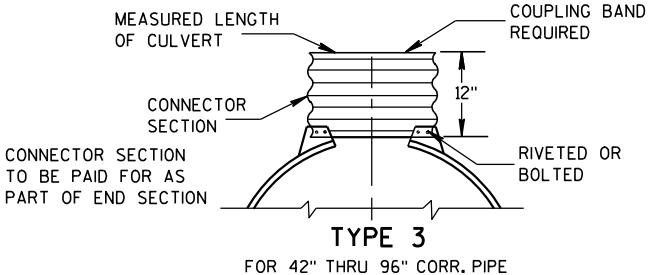
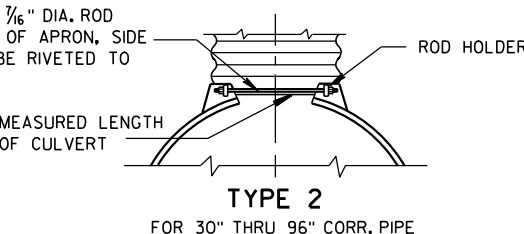
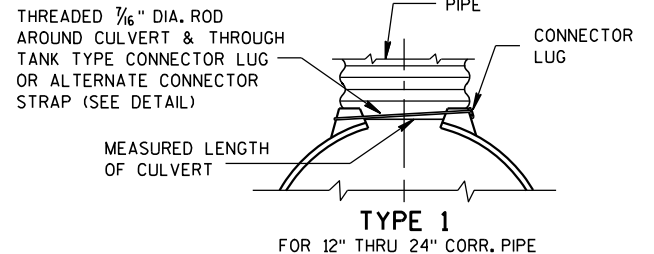


LONGITUDINAL SECTION
CONCRETE ENDWALLS

1" WIDE, 12 GA. (0.109" THICK) GALVANIZED STRAP WITH STANDARD 6" X 1/2" BAND BOLT AND NUT



ALTERNATE FOR TYPE 1 CONNECTION
END SECTION CONNECTOR STRAP



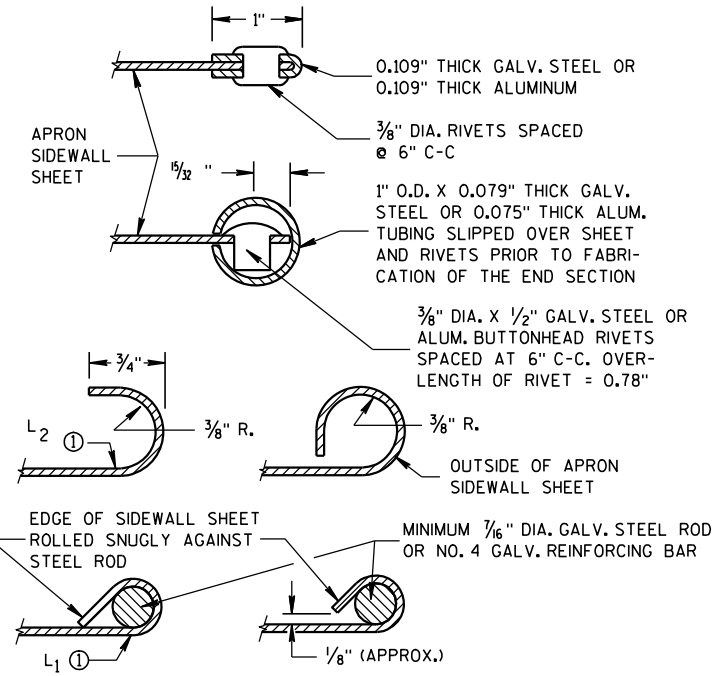
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL, AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5 AS APPLICABLE.

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

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.

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

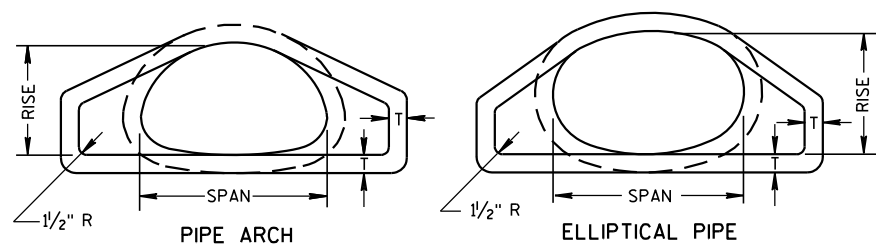
WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

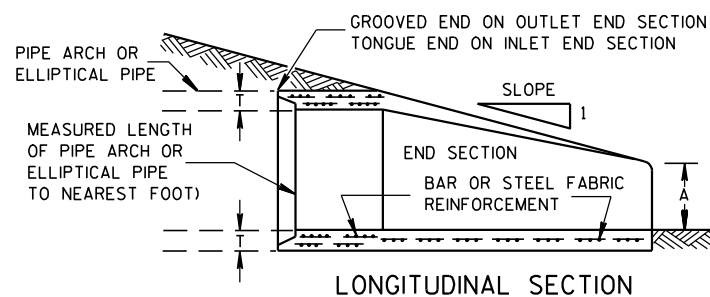
APRON ENDWALLS FOR CULVERT PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/30/94
DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

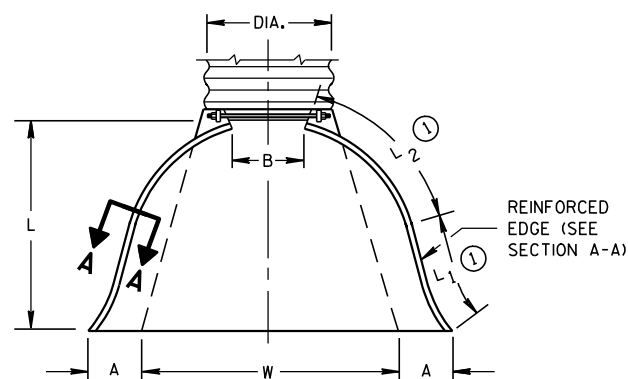


END VIEW



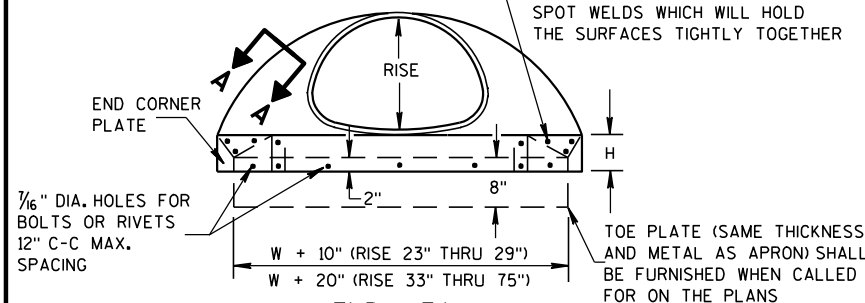
LONGITUDINAL SECTION

CONCRETE ENDWALLS

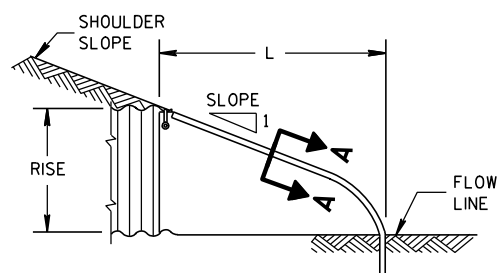
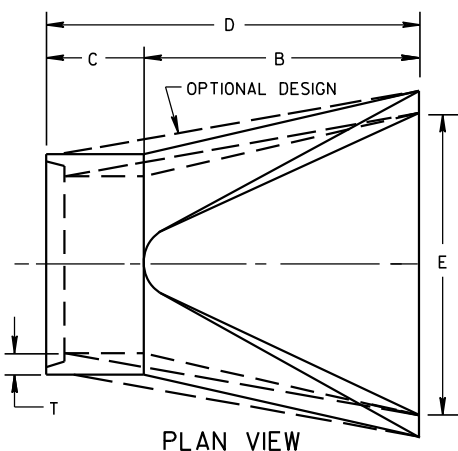


PLAN VIEW

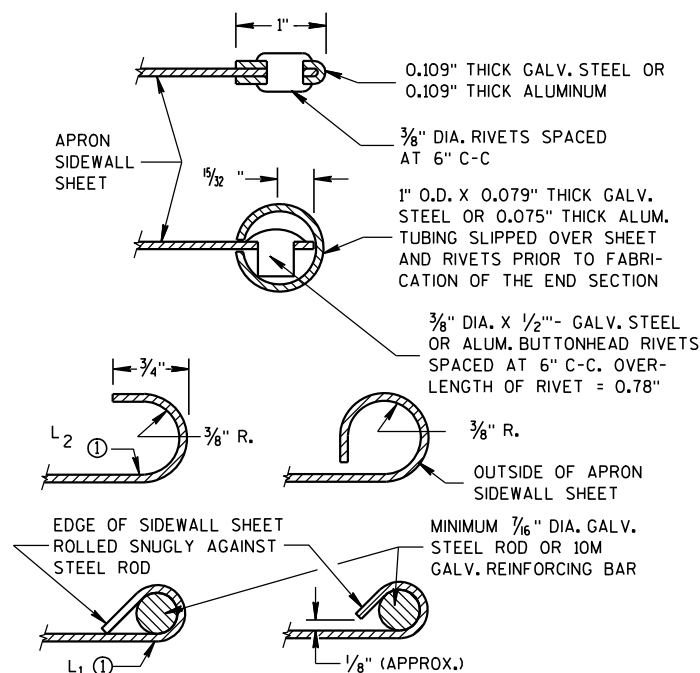
END CORNER PLATES MAY BE FASTENED TO APRON PROPER BY BOLTS, RIVETS, OR RESISTANCE SPOT WELDS WHICH WILL HOLD THE SURFACES TIGHTLY TOGETHER



END VIEW

SIDE ELEVATION
METAL ENDWALLS

PLAN VIEW



SECTION A-A

2- 2 ² / ₃ " x 1 ¹ / ₂ " CORRUGATIONS													
EQUIV. DIA. (Inches)	(Inches)		MIN. THICK. (Inches)		DIMENSIONS (Inches)							APPROX. SLOPE	BODY
	SPAN	RISE	STEEL	ALUM.	A (±1")	B (MAX.)	H (±1")	L (±1 ¹ / ₂ ")	L ₁ ①	L ₂ ①	W (±2")		
15	17	13	.064	.060	7	9	6	19	14	16	30	2 ¹ / ₂ to 1	1 Pc.
18	21	15	.064	.060	7	10	6	23	14	19 ³ / ₈	36	2 ¹ / ₂ to 1	1 Pc.
21	24	18	.064	.060	8	12	6	28	18	21 ³ / ₄	42	2 ¹ / ₂ to 1	1 Pc.
24	28	20	.064	.060	9	14	6	32	18	27 ¹ / ₂	48	2 ¹ / ₂ to 1	1 Pc.
30	35	24	.079	.075	10	16	6	39	18	37 ⁵ / ₈	60	2 ¹ / ₂ to 1	1 Pc.
36	42	29	.079	.075	12	18	8	46	24	45 ³ / ₈	75	2 ¹ / ₂ to 1	1 Pc.
42	49	33	.109	.105	13	21	9	53	24	54 ³ / ₄	85	2 ¹ / ₂ to 1	2 Pc.
48	57	38	.109	.105	18	26	12	63	24	68	90	2 ¹ / ₂ to 1	3 Pc.
54	64	43	.109	.105	18	30	12	70	24	72 ³ / ₄	102	2 ¹ / ₄ to 1	3 Pc.
60	71	47	.109*	.105*	18	33	12	77	30	82 ¹ / ₄	114	2 ¹ / ₄ to 1	3 Pc.
66	77	52	.109*	.105*	18	36	12	77	—	—	126	2 to 1	3 Pc.
72	83	57	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.

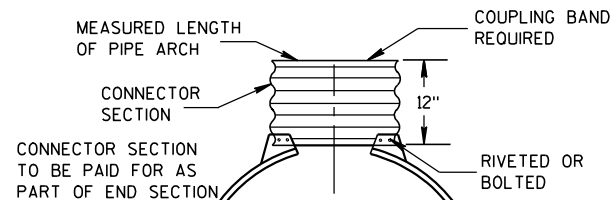
3" X 1" CORRUGATIONS													
EQUIV. DIA. (Inches)	(Inches)		MIN. THICK. (Inches)		DIMENSIONS (Inches)							APPROX. SLOPE	BODY
	SPAN	RISE	STEEL	ALUM.	A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L ₁ ⓪	L ₂ ⓪	W (±2")		
48	53	41	.109	.105	18	26	12	63	24	72¾	90	2½ to 1	2 Pc.
54	60	46	.109	.105	18	30	12	70	30	82¼	102	2 to 1	2 Pc.
60	66	51	.109*	.105*	18	33	12	77	—	—	114	1½ to 1	3 Pc.
66	73	55	.109*	.105*	18	36	12	77	—	—	126	1½ to 1	3 Pc.
72	81	59	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.
78	87	63	.109*	.105*	22	38	12	77	—	—	148	1½ to 1	3 Pc.
84	95	67	.109*	.105*	22	34	12	77	—	—	162	1½ to 1	3 Pc.
90	103	71	.109*	.105*	22	38	12	77	—	—	174	1½ to 1	3 Pc.
96	112	75	.109*	.105*	24	40	12	77	—	—	174	1½ to 1	3 Pc.

NOTE: ALL SPLICES TO BE LAP RIVETED OR BOLTED.

* EXCEPT CENTER PANEL
SEE GENERAL NOTES

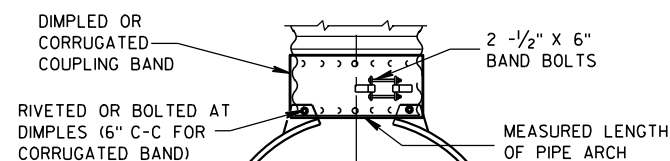
TYPE 2

FOR 17" X 13" THRU 112" X 75" PIPE ARCH



TYPE 3

FOR 64" X 43" THRU 112" X 75" PIPE ARCH



TYPE 5

ALTERNATE FOR:
ALL SIZES CORRUGATED PIPE ARCHESNOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL,
AND CORRUGATED BAND FITS INSIDE ENDWALL.

CONNECTION DETAILS

REINFORCED CONCRETE PIPE ARCH

EQUIV. DIA. (Inches)	DIMENSIONS (Inches)								APPROX. SLOPE
	** SPAN	** RISE	T	A	B	C	D	E	
24	29	18	3	8 1/2	39	33	72	48	3 to 1
30	36	22	3 1/2	9 1/2	50	46	96	60	3 to 1
36	44	27	4	11 1/8	60	36	96	72	3 to 1
42	51	31	4 1/2	15 1/16	60	36	96	78	3 to 1
48	58	36	5	21	60	36	96	84	3 to 1
54	65	40	5 1/2	25 1/2	60	36	96	90	3 to 1
60	73	45	6	31	60	36	96	96	3 to 1
72	88	54	7	31	60	39	99	120	2 to 1
84	102	62	8	28 1/2	83	19	102	144	2 to 1

REINFORCED CONCRETE ELLIPTICAL PIPE

EQUIV. DIA. (Inches)	DIMENSIONS (Inches)								APPROX. SLOPE
	** SPAN	** RISE	T	A	B	C	D	E	
24	30	19	3 1/4	8 1/2	39	33	72	48	3 to 1
30	38	24	3 3/4	9 1/2	54	18	72	60	3 to 1
36	45	29	4 1/2	11 1/8	60	24	84	72	2 1/2 to 1
42	53	34	5	15 1/4	60	36	96	78	2 1/2 to 1
48	60	38	5 1/2	21	60	36	96	84	2 1/2 to 1
54	68	43	6	25 1/2	60	36	96	90	2 1/2 to 1
60	76	48	6 1/2	30	60	36	96	96	2 1/2 to 1

**NOMINAL SIZE

GENERAL NOTES

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.

CONCRETE APRON ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM APRON ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE ARCH PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 77" X 52" THROUGH 112" X 75" APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

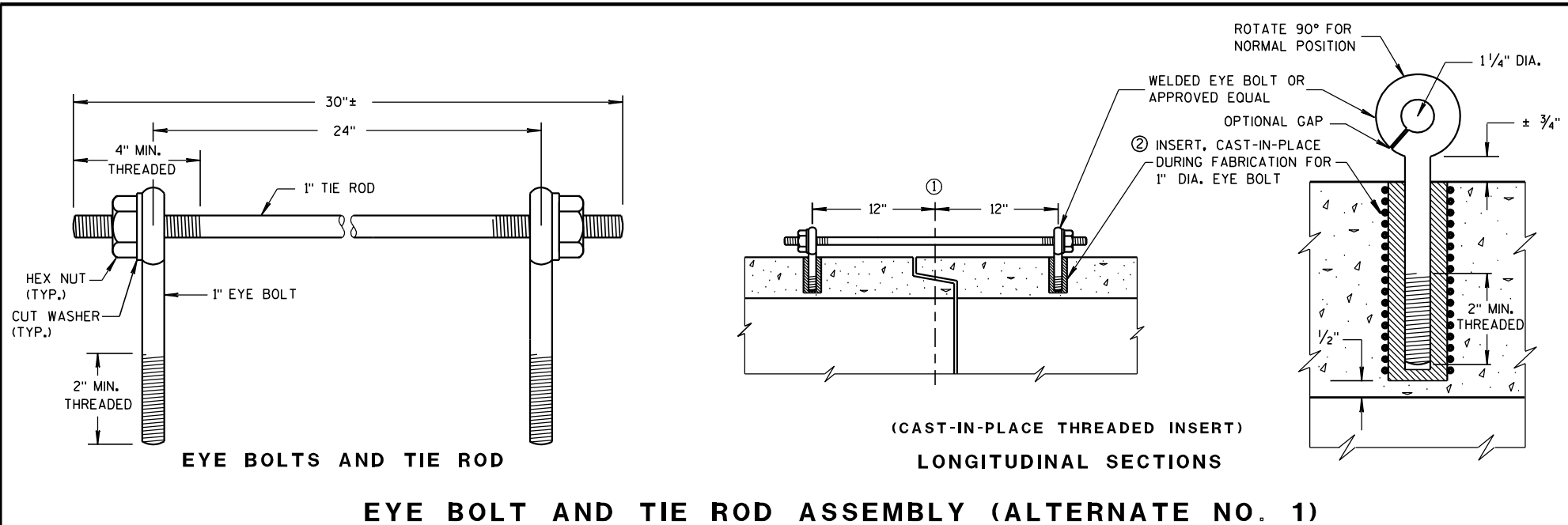
① FOR PIPE ARCH SIZES UP TO 73" X 55" A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR
PIPE ARCH AND
ELLIPTICAL PIPESTATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

11/30/94
DATE/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA



GENERAL NOTES

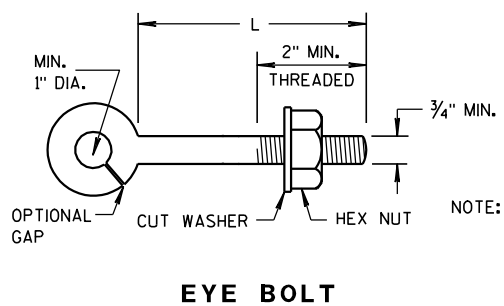
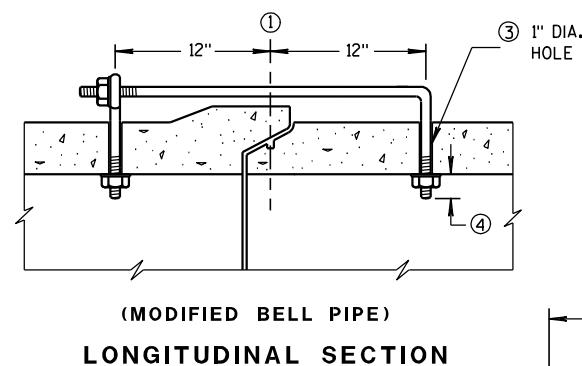
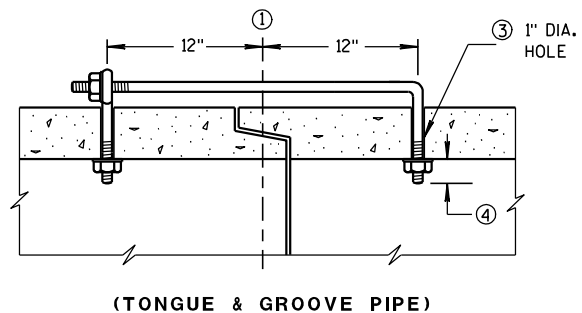
DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT AND STORM SEWER PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED IN THE STANDARD SPECIFICATIONS AND THE PLAN. THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR DRAINAGE STRUCTURES. ONLY ALTERNATE 1 AND 3 MAY BE USED FOR CATTLE PASSES, UNLESS OTHERWISE STATED IN THE CONTRACT. THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE THE PIPE BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO THE PIPE AND APRON ENDWALLS IF REQUIRED.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

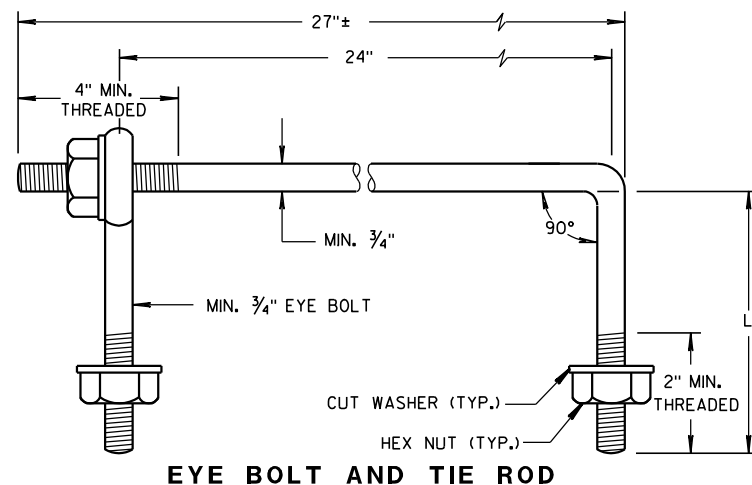
JOINT TIES TO BE HOT-DIP GALVANIZED PER ASTM A 153.

- ① ϕ OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.
- ② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.
- ③ HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12 INCHES FROM ϕ OF TONGUE AND GROOVE.
- ④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.
- ⑤ OPENING TO BE ROD DIAMETER PLUS 1 INCH.
- ⑥ LENGTH ADEQUATE TO EXTEND TO WITHIN 1/2 INCH OF THE INNER SURFACE OF THE PIPE.



NOTE: TWO EYE BOLTS MAY BE USED WITH A 30" LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.

(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)
EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 2)



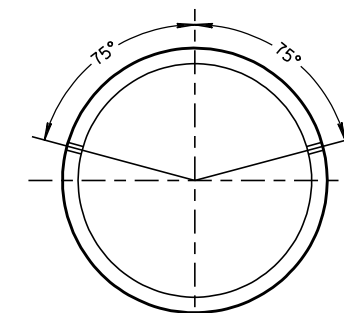
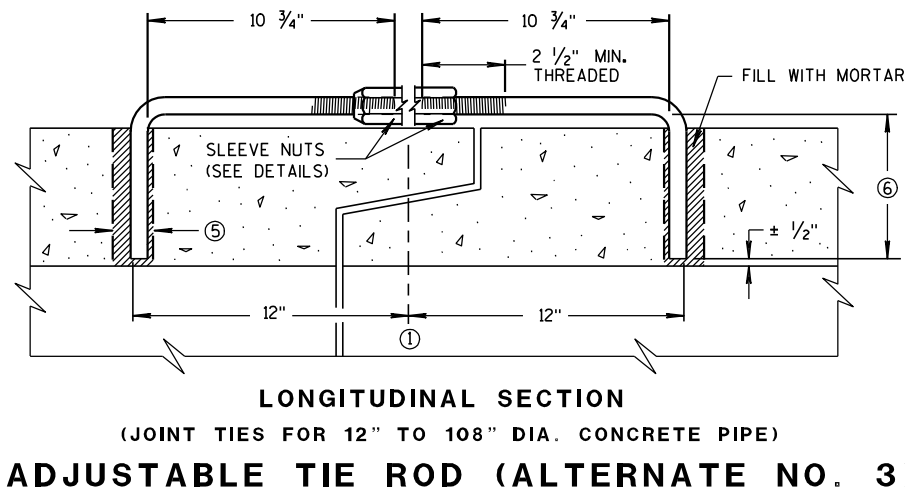
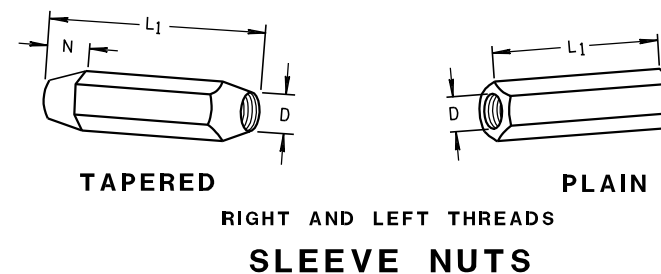
EYE BOLT DIMENSION TABLE

PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	

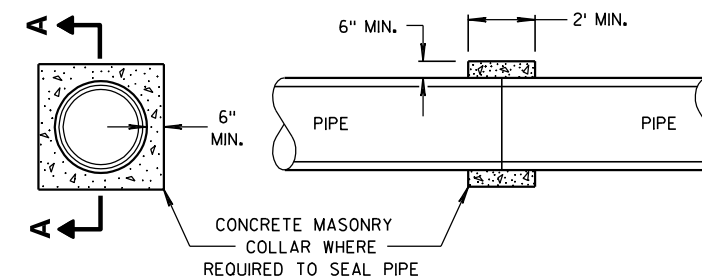
ADJUSTABLE TIE ROD TABLE

PIPE DIAMETER	TIE ROD DIAMETER	D	L ₁	N
12-60	5/8	5/8	5	1/2
66-84	3/4	3/4	5	1/2
90-108	1	1	7	1 1/16

DIMENSIONS SHOWN ARE IN INCHES



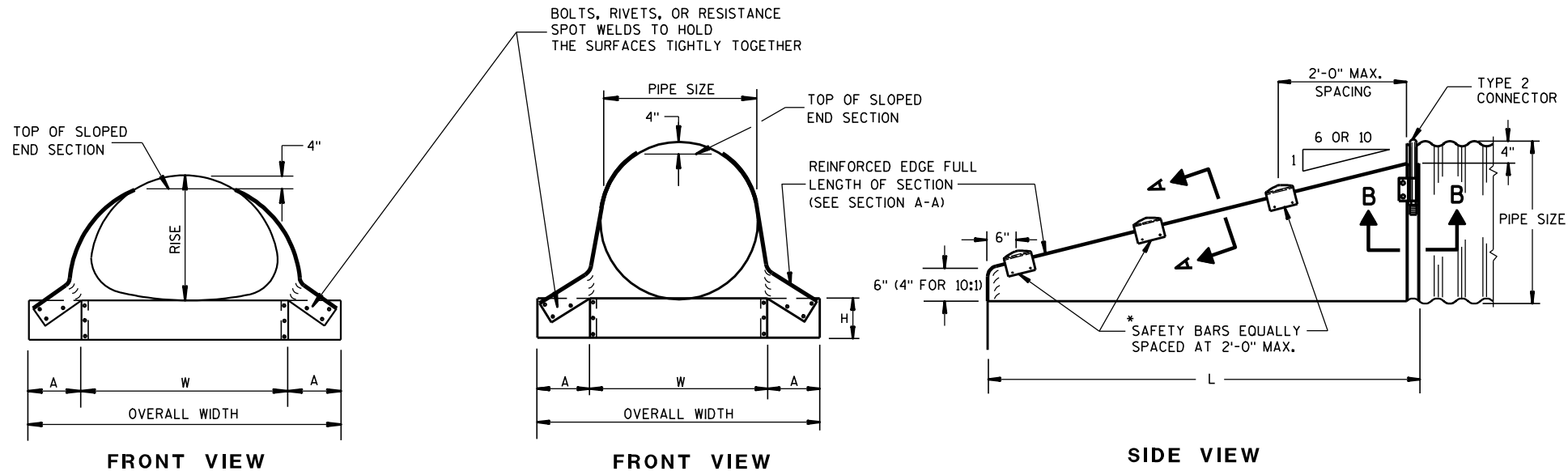
PLACEMENT OF (2) CAST-IN-PLACE INSERTS OR HOLES DURING FABRICATION FOR PIPE SECTIONS REQUIRING TIE RODS



JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/5/2012 /S/ Jerry H. Zogg
DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA



GENERAL NOTES

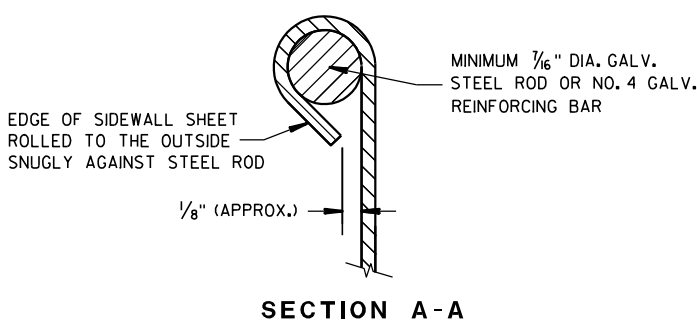
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

SLOPED END SECTIONS SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS, SECTION 521 FOR STEEL APRON ENDWALLS.

SAFETY BARS SHALL BE FABRICATED FROM GALVANIZED STEEL PIPE MEETING THE REQUIREMENTS OF ASTM A-53, GRADE B, SCHEDULE 40 OR APPROVED EQUAL.

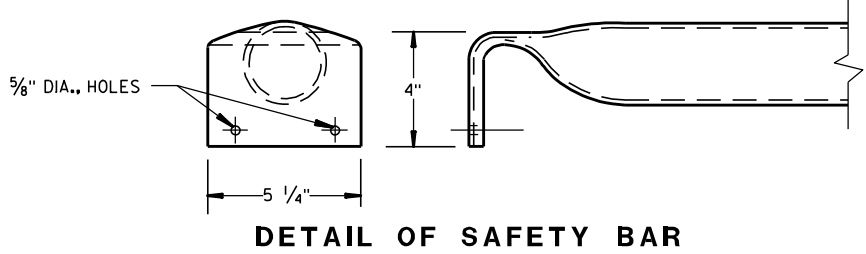
STEEL APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS

PIPE DIA. (IN.)	MIN. THICK. (Inches)	DIMENSIONS (Inches)				L DIMENSIONS			
		A	H	W	OVERALL WIDTH	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES
15	.064	8	6	21	37	6:1	30	10:1	70
18	.064	8	6	24	40	6:1	48	10:1	100
21	.064	8	6	27	43	6:1	66	10:1	130
24	.064	8	6	30	46	6:1	84	10:1	160
30	.109	12	9	36	60	6:1	120	10:1	220
36	.109	12	9	42	66	6:1	156	10:1	280
42	.109	16	12	48	80	6:1	192	—	—
48	.109	16	12	54	86	6:1	228	—	—
54	.109	16	12	60	92	6:1	264	—	—
60	.109	16	12	66	98	6:1	300	—	—



*NOTE: THREE SAFETY BARS ARE SHOWN. ACTUAL NUMBER OF BARS REQUIRED AT A 2'-0" C-C MAX. SPACING WILL VARY DEPENDING ON THE LENGTH OF THE END SECTION.

3" GALVANIZED PIPE. FLATTEN ENDS, THEN BEND OUTSIDE 4" TO MATCH END SECTION SIDES.



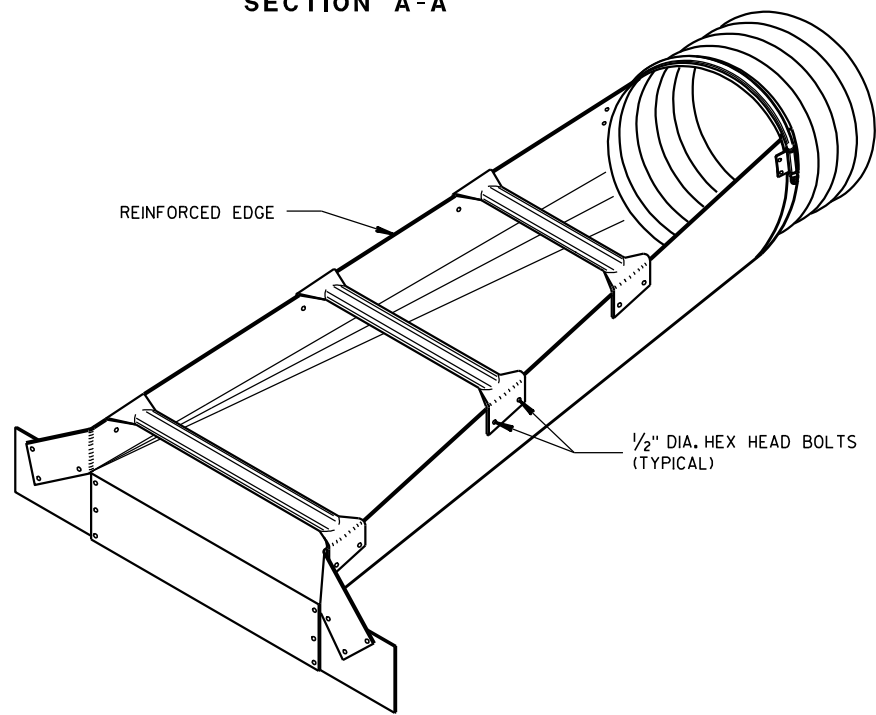
DETAIL OF SAFETY BAR

STEEL APRON ENDWALLS FOR PIPE ARCH SLOPED SIDE DRAINS

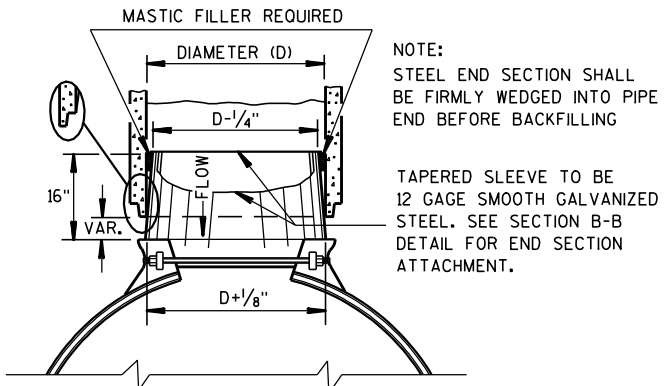
EQUIV. DIA. (Inches)	(Inches)		MIN. THICK. (Inches) ①	DIMENSIONS (Inches)				L DIMENSIONS			
	SPAN	RISE		A	H	W	OVERALL WIDTH	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES
15	17	13	.064 *	7	6	30	44	6:1	30	10:1 ②	70
18	21	15	.064 *	8	6	27	43	6:1	30	10:1	70
21	24	18	.064 *	8	6	30	46	6:1	48	10:1	100
24	28	20	.064 *	8	6	34	50	6:1	60	10:1	120
30	35	24	.079 *	12	9	41	65	6:1	84	10:1	160
36	42	29	.109 *	12	9	48	72	6:1	114	10:1	210
42	49	33	.109	16	12	55	87	6:1	138	—	—
48	57	38	.109	16	12	63	95	6:1	168	—	—
54	64	43	.109	16	12	70	102	6:1	198	—	—

① * MINIMUM THICKNESS OF ALL 10:1 SLOPED SIDE DRAINS IS 0.109".

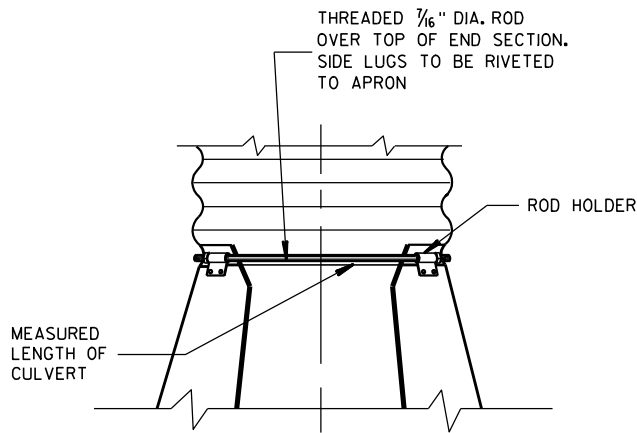
② ACTUAL SLOPE GREATER THAN 10:1.



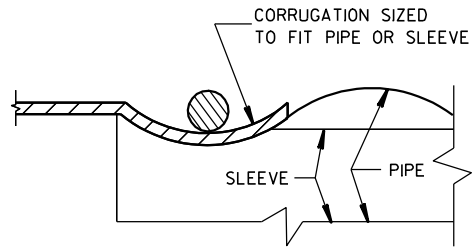
ISOMETRIC VIEW



STEEL ADAPTER SLEEVE FOR CONCRETE PIPE



TYPE 2 CONNECTION DETAIL

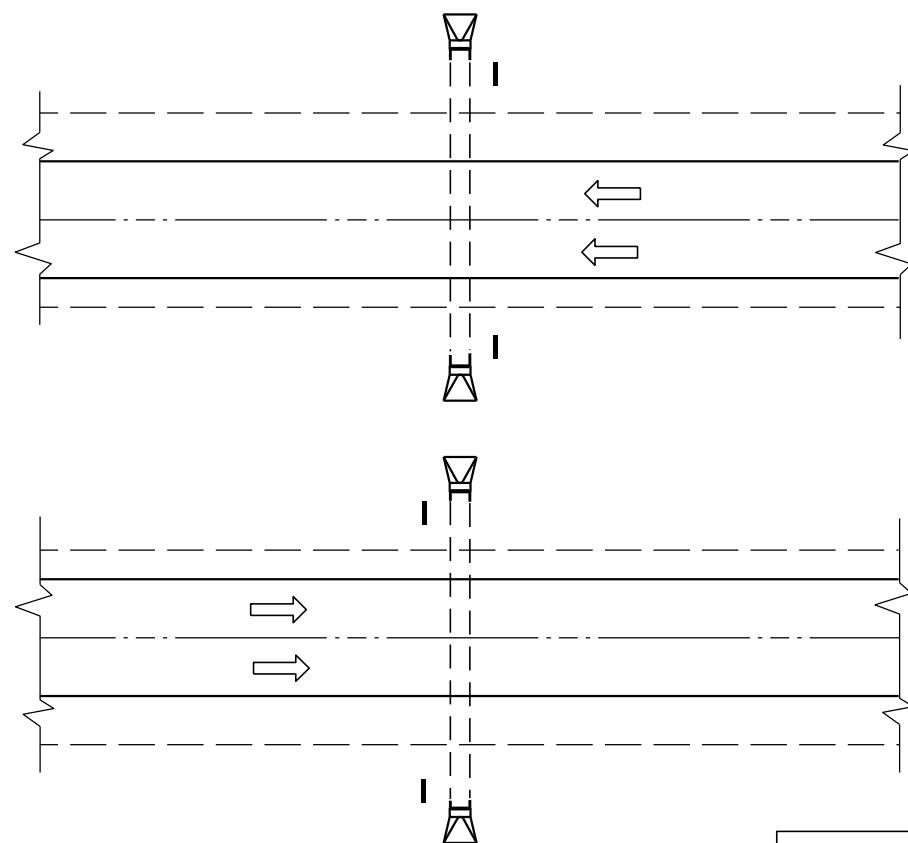


SECTION B-B

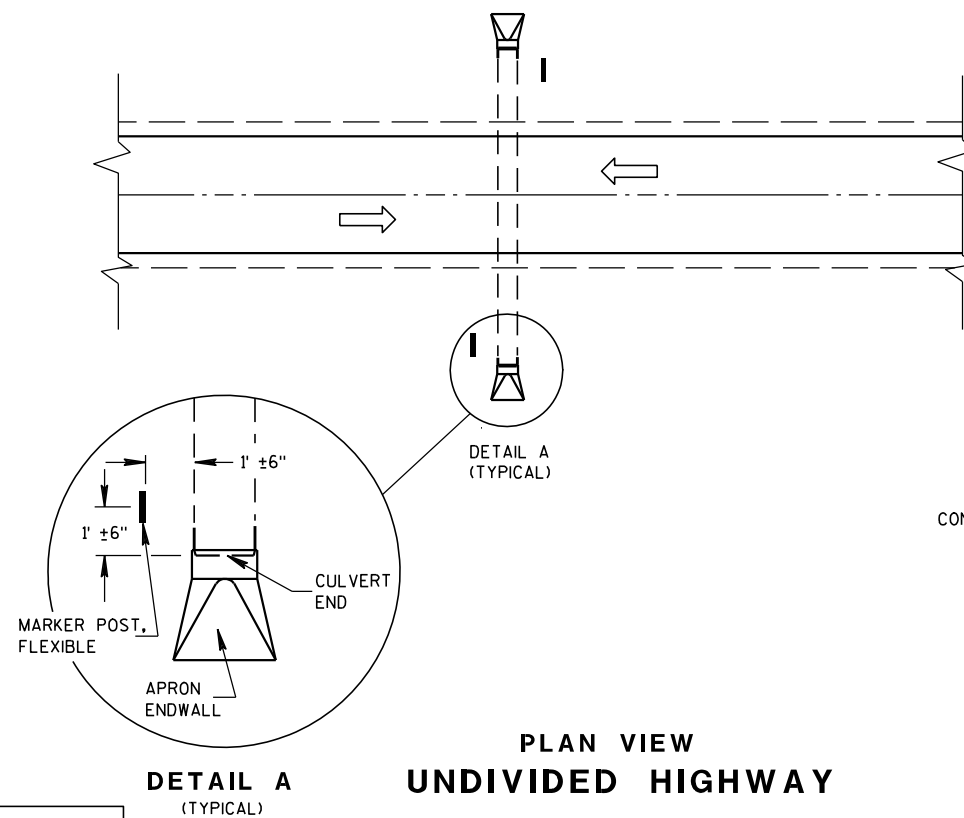
STEEL APRON ENDWALLS FOR CULVERT PIPE AND PIPE ARCH SLOPED SIDE DRAINS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/5/2012 DATE /S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

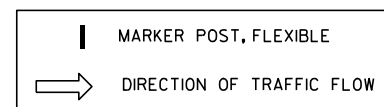


PLAN VIEW
DIVIDED HIGHWAY

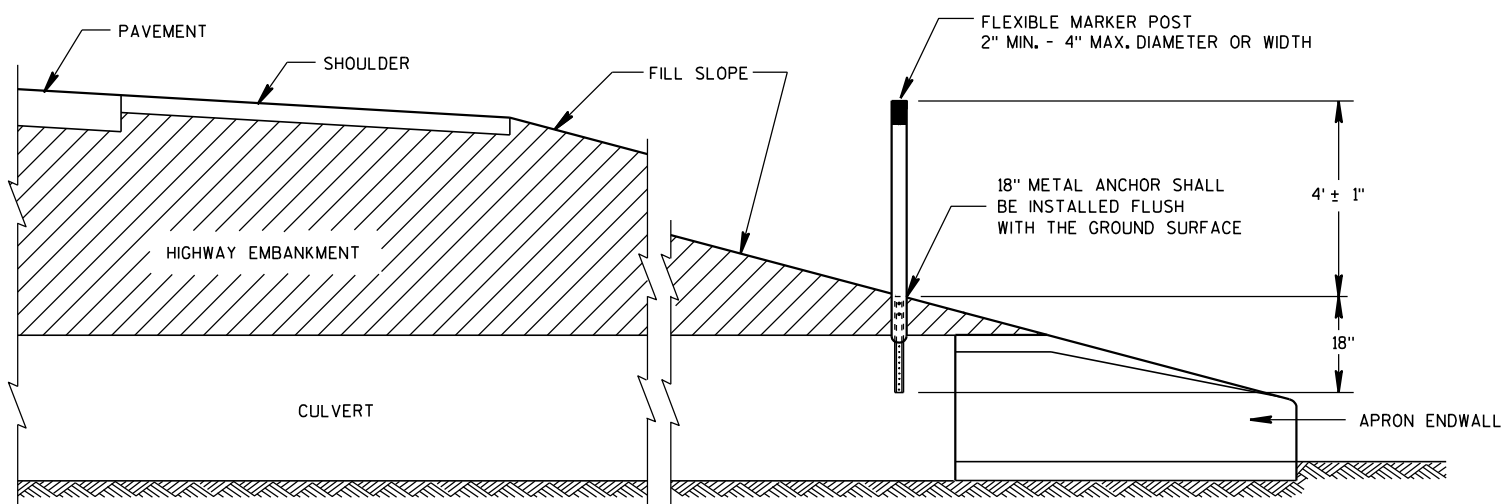


PLAN VIEW
UNDIVIDED HIGHWAY

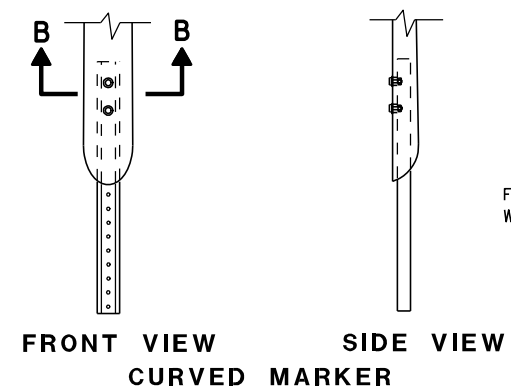
DETAIL A
(TYPICAL)



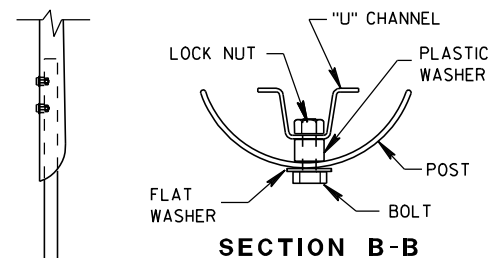
FLEXIBLE MARKER POST LOCATION



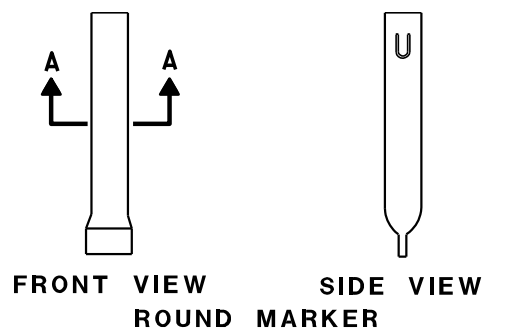
CROSS SECTION
FLEXIBLE MARKER POST



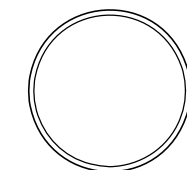
FRONT VIEW
CURVED MARKER



SECTION B-B



FRONT VIEW
ROUND MARKER

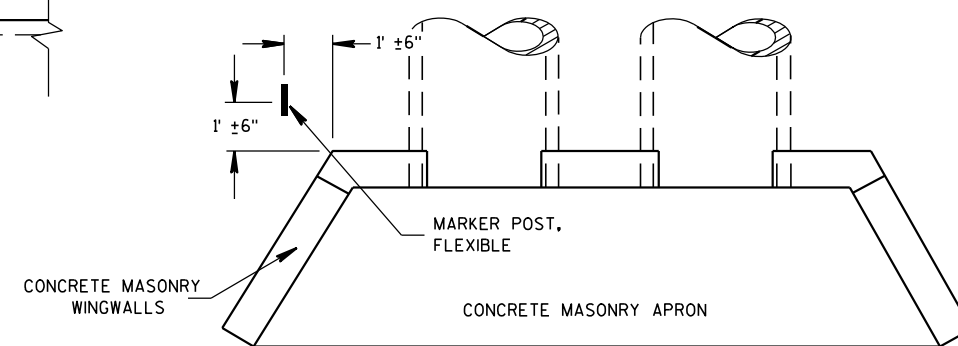


SECTION A-A

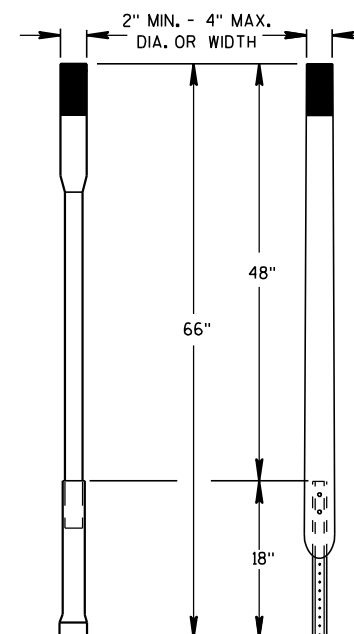
FLEXIBLE MARKER POST ANCHORS

GENERAL NOTES

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.



PLAN VIEW
CONCRETE MASONRY ENDWALLS FOR
CULVERT PIPE AND PIPE ARCH



ALTERNATE 1 ALTERNATE 2
FLEXIBLE MARKER POST

MARKER POST, FLEXIBLE,
FOR CULVERT END

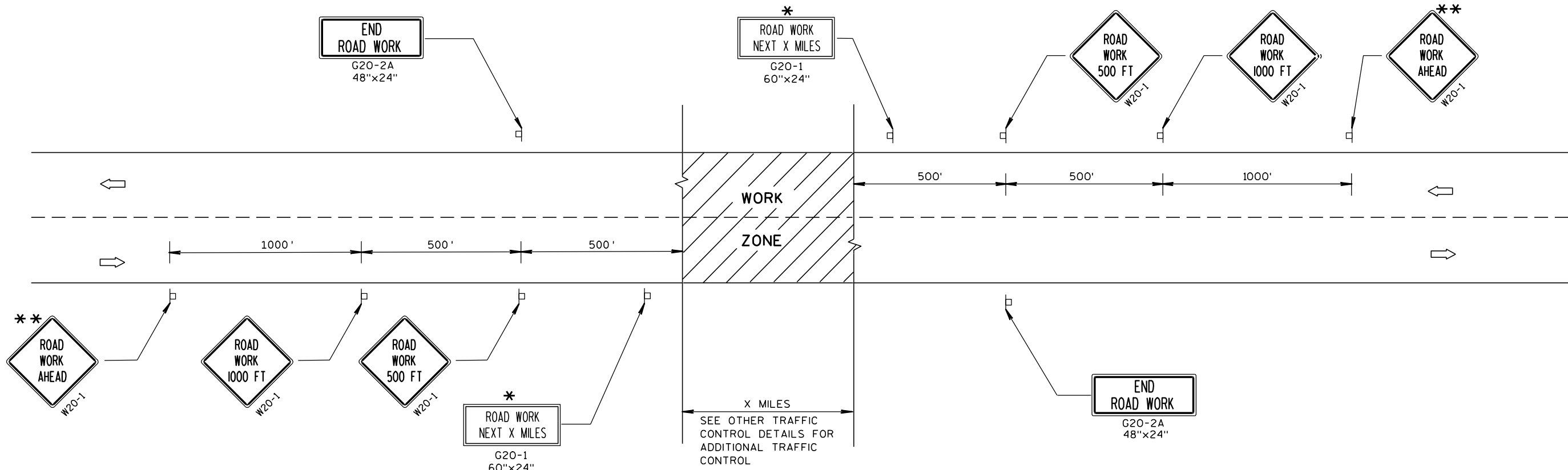
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

10/1/98
DATE

FHWA

/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER



TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

* OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

** PLACE ADDITIONAL W20-1 "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA OR SIGNING.

LEGEND

┆ POST MOUNTED SIGN

➡ DIRECTION OF TRAFFIC FLOW

TRAFFIC CONTROL, ADVANCE
WARNING SIGNS 45 M.P.H.
OR GREATER TWO-WAY
UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
5/23/00 /S/ Chester J. Spang
DATE CHIEF SIGNS AND MARKING ENGINEER
FHWA

TWO-LANE ROADWAY

SYMBOLS



WORK AREA



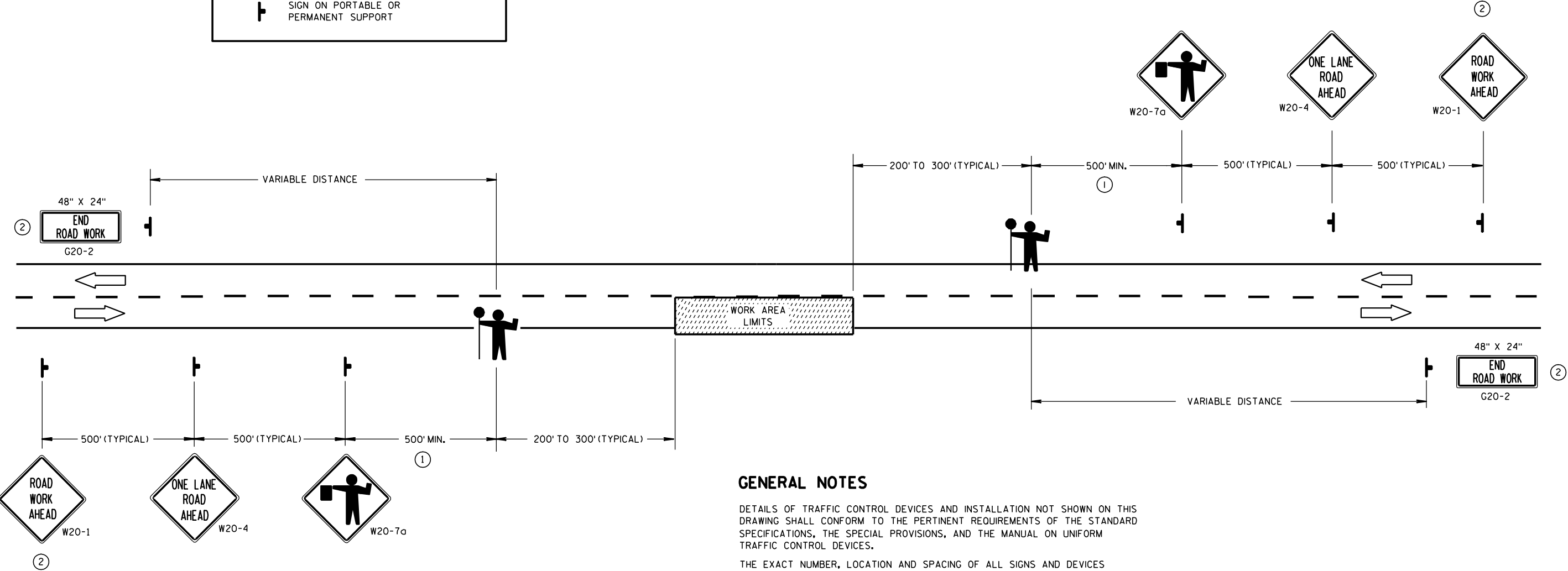
FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF



SIGN ON PORTABLE OR PERMANENT SUPPORT



USE OF THE "BE PREPARED TO STOP" SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7a AND W20-4 SIGNS. A 500' TYPICAL SPACING SHALL BE PROVIDED BETWEEN THE SIGNS.



GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES (AND THE LOCATION OF ALL FLAGGERS) SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT, THE "FLAGGER AHEAD", THE "ROAD WORK AHEAD" AND THE ONE LANE ROAD AHEAD" SIGNS SHALL BE COVERED OR REMOVED AND THE HIGHWAY RESTORED TO NORMAL OPERATION.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

- ① FOR A MOVING WORK OPERATION, SIGNING FOR BOTH DIRECTIONS SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT APPROXIMATELY 3500 FOOT INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.

② SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

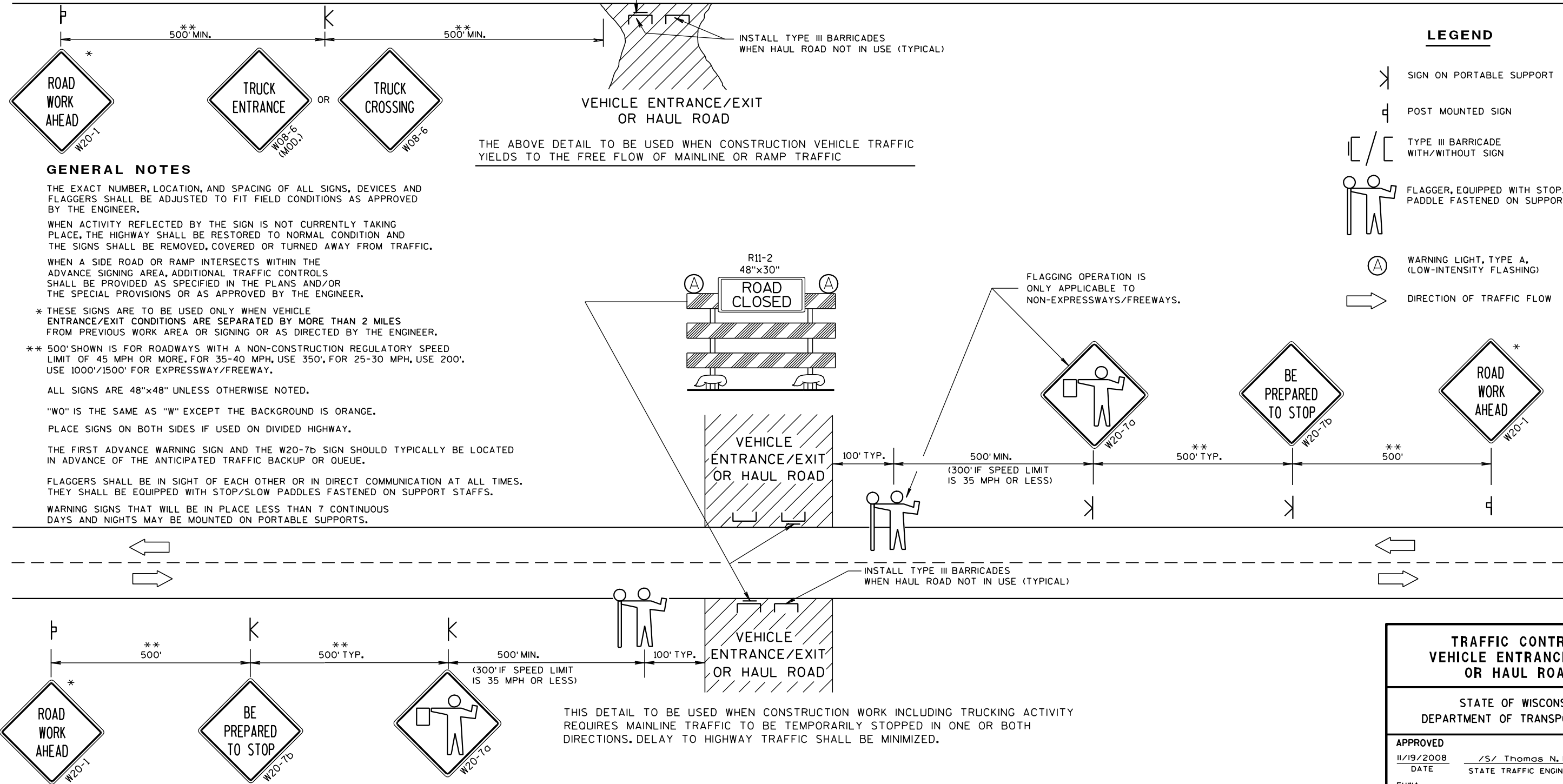
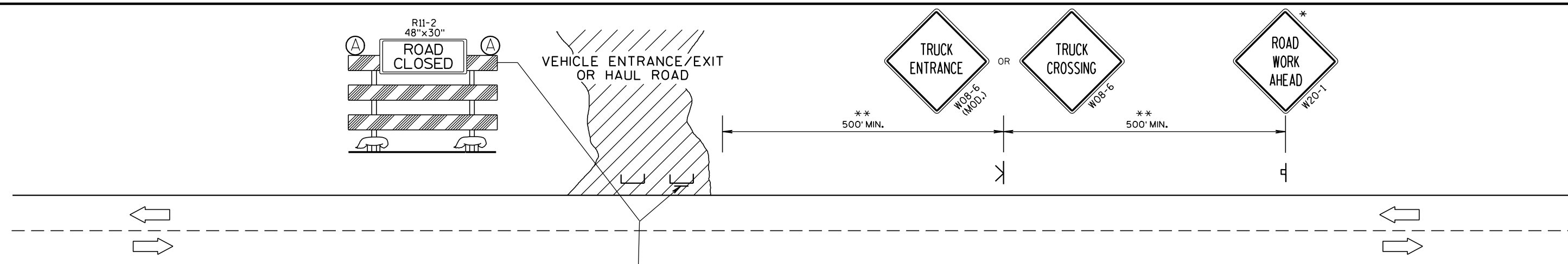
9/5/06

DATE

/S/ Thomas N. Notbohm

STATE TRAFFIC ENGINEER OF DESIGN

FHWA



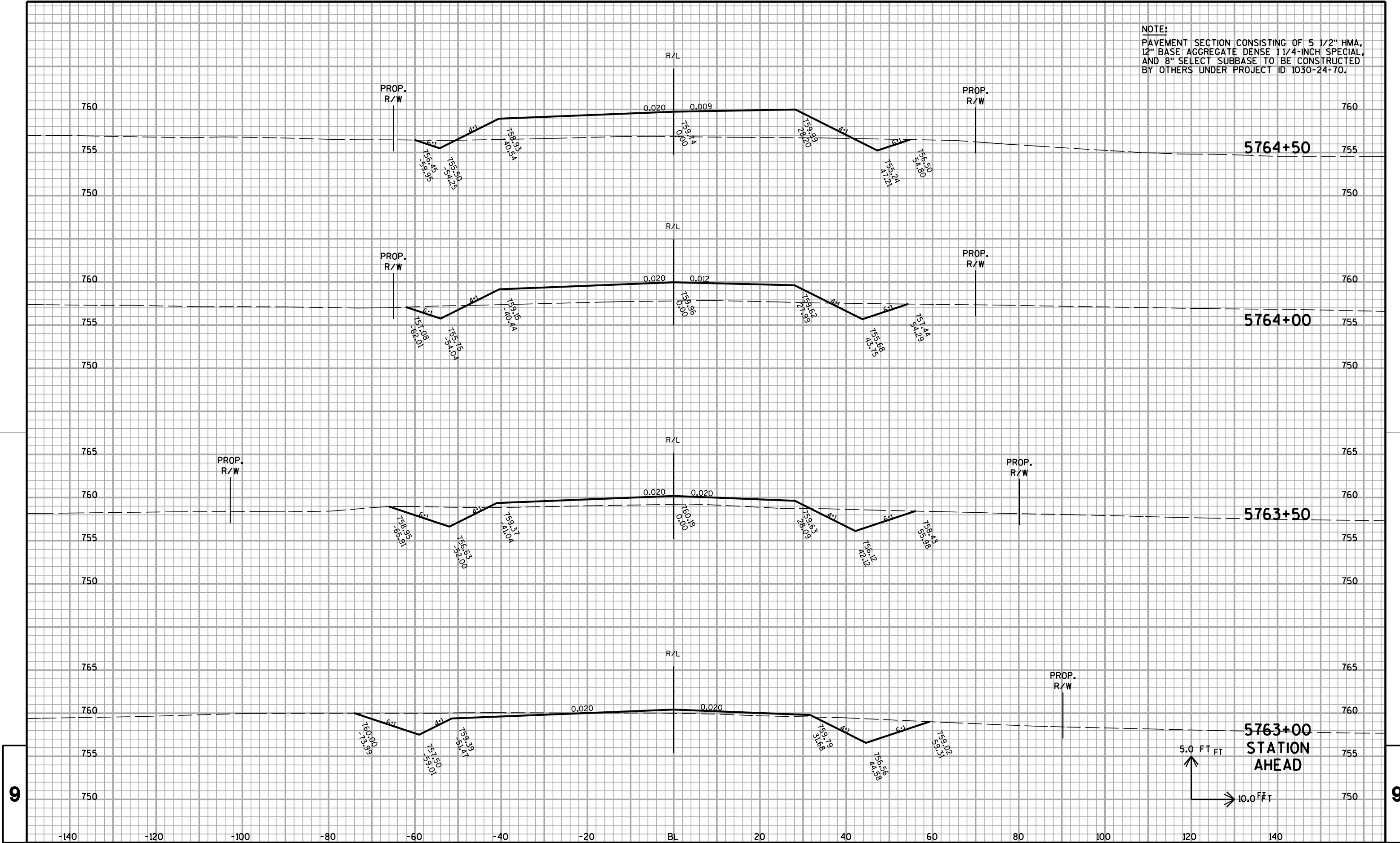
STATION		Distance		EAST FRONTAGE ROAD - GRADING												Unadjusted Mass Ordinate
				AREA (SF)				Incremental Vol (CY) (Unadjusted)				Cumulative Vol (CY) (Unadjusted)				
				Cut	Salvaged/Unusable Pavement Material	Fill	EBS	Cut	Salvaged/Unusable Pavement Material	Fill	EBS	Cut 1.00	Salvaged/Unusable Pavement Material	Fill 1.00	EBS	
5762+50	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5763+00	50	78	0	14	0	72	0	13	0	72	0	13	0	59		
5763+50	50	56	0	58	0	124	0	67	0	196	0	80	0	117		
5764+00	50	27	0	150	0	77	0	193	0	273	0	272	0	1		
5764+50	50	13	0	227	0	37	0	349	0	310	0	621	0	-311		
5765+00	50	24	0	283	0	34	0	472	0	344	0	1,094	0	-750		
5765+50	50	23	0	194	0	43	0	442	0	387	0	1,535	0	-1,149		
5766+00	50	51	0	110	0	68	0	281	0	454	0	1,817	0	-1,362		
5766+50	50	77	0	83	0	118	0	179	0	573	0	1,995	0	-1,423		
5767+00	50	90	0	67	0	155	0	139	0	727	0	2,134	0	-1,407		
5767+50	50	97	0	54	0	173	0	112	0	900	0	2,246	0	-1,346		
5768+00	50	96	0	48	0	179	0	94	0	1,079	0	2,341	0	-1,262		
5768+50	50	102	0	42	0	183	0	83	0	1,263	0	2,424	0	-1,162		
5769+00	50	131	0	28	0	216	0	65	0	1,478	0	2,489	0	-1,011		
5769+50	50	147	0	11	0	257	0	36	0	1,736	0	2,525	0	-789		
5770+00	50	172	0	0	0	295	0	10	0	2,031	0	2,535	0	-504		
5770+50	50	192	0	0	0	337	0	0	0	2,368	0	2,535	0	-167		
5771+00	50	192	0	0	0	356	0	0	0	2,724	0	2,535	0	188		
5771+50	50	152	0	10	0	319	0	9	0	3,042	0	2,544	0	498		
5772+00	50	115	0	47	232	247	0	53	215	3,289	0	2,597	215	692		
5772+50	50	75	0	86	244	176	0	123	441	3,466	0	2,720	655	745		
5773+00	50	62	0	119	251	127	0	190	458	3,593	0	2,910	1,114	683		
5773+50	50	42	0	163	260	97	0	261	473	3,690	0	3,171	1,587	519		
5774+00	50	26	0	231	273	63	0	365	494	3,753	0	3,536	2,080	217		
5774+50	50	12	0	277	286	35	0	470	517	3,789	0	4,006	2,598	-218		
5775+00	50	7	0	318	291	17	0	551	534	3,806	0	4,557	3,132	-752		
5775+50	50	4	0	338	294	10	0	607	542	3,816	0	5,165	3,674	-1,349		
5776+00	50	102	0	335	292	97	0	623	542	3,913	0	5,788	4,217	-1,875		
5776+50	50	173	0	244	0	254	0	536	270	4,167	0	6,324	4,487	-2,157		
5777+00	50	261	0	48	0	401	0	270	0	4,568	0	6,594	4,487	-2,026		
5777+50	50	21	0	248	0	261	0	274	0	4,829	0	6,869	4,487	-2,039		
5778+00	50	18	0	258	0	35	0	469	0	4,865	0	7,337	4,487	-2,472		
5778+50	50	19	0	199	0	34	0	423	0	4,899	0	7,760	4,487	-2,861		
5779+00	50	35	0	113	0	50	0	289	0	4,949	0	8,049	4,487	-3,100		
EAST FRONTAGE ROAD TOTAL						4,949	0	8,049	4,487	4,949	0	8,049	4,487	0		

STATION		Distance		PRIVATE DRIVEWAY A - GRADING												Unadjusted Mass Ordinate
				AREA (SF)				Incremental Vol (CY) (Unadjusted)				Cumulative Vol (CY) (Unadjusted)				
				Cut	Salvaged/Unusable Pavement Material	Fill	Existing Pavement EBS	Cut	Salvaged/Unusable Pavement Material	Fill	Existing Pavement EBS	Cut 1.00	Salvaged/Unusable Pavement Material	Fill 1.00	Existing Pavement EBS	
15+02	0	18	0	0	0	0	0	0	0	0	0	0	0	0	0	
15+50	48	28	0	0	0	41	0	0	0	41	0	0	0	41	41	
16+00	50	14	0	0	0	40	0	0	0	81	0	0	0	81	81	
16+50	50	11	0	5	0	24	0	5	0	104	0	5	0	100	100	
17+00	50	8	0	10	0	18	0	13	0	122	0	18	0	104	104	
17+50	50	119	0	0	0	118	0	9	0	240	0	27	0	213	213	
18+00	50	129	0	0	0	230	0	0	0	470	0	27	0	443	443	
18+50	50	172	0	0	0	279	0	0	0	749	0	27	0	722	722	
19+00	50	150	0	34	0	298	0	31	0	1,047	0	58	0	989	989	
19+50	50	98	0	143	0	230	0	164	0	1,277	0	222	0	1,055	1,055	
19+80	31	2	0	289	0	57	0	244	0	1,333	0	466	0	867	867	
PRIVATE DRIVEWAY A TOTAL						1,333	0	466	0	1,333	0	466	0	867	867	

STATION		Distance		SWALE 4 - GRADING										Unadjusted Mass Ordinate		
				AREA (SF)				Incremental Vol (CY) (Unadjusted)				Cumulative Vol (CY) (Unadjusted)				
				Cut	Salvaged/Unusable Pavement Material	Fill	Existing Pavement EBS	Cut	Salvaged/Unusable Pavement Material	Fill	Existing Pavement EBS	Cut 1.00	Salvaged/Unusable Pavement Material		Fill 1.00	Existing Pavement EBS
400+00	0	2	0	0	0	0	0	0	0	0	0	0	0	0		
400+50	50	0	0	0	0	3	0	0	0	3	0	0	0	3		
400+56	6	0	0	0	0	0	0	0	0	3	0	0	0	3		
SWALE 4 TOTAL						3	0	0	0	3	0	0	0	3		

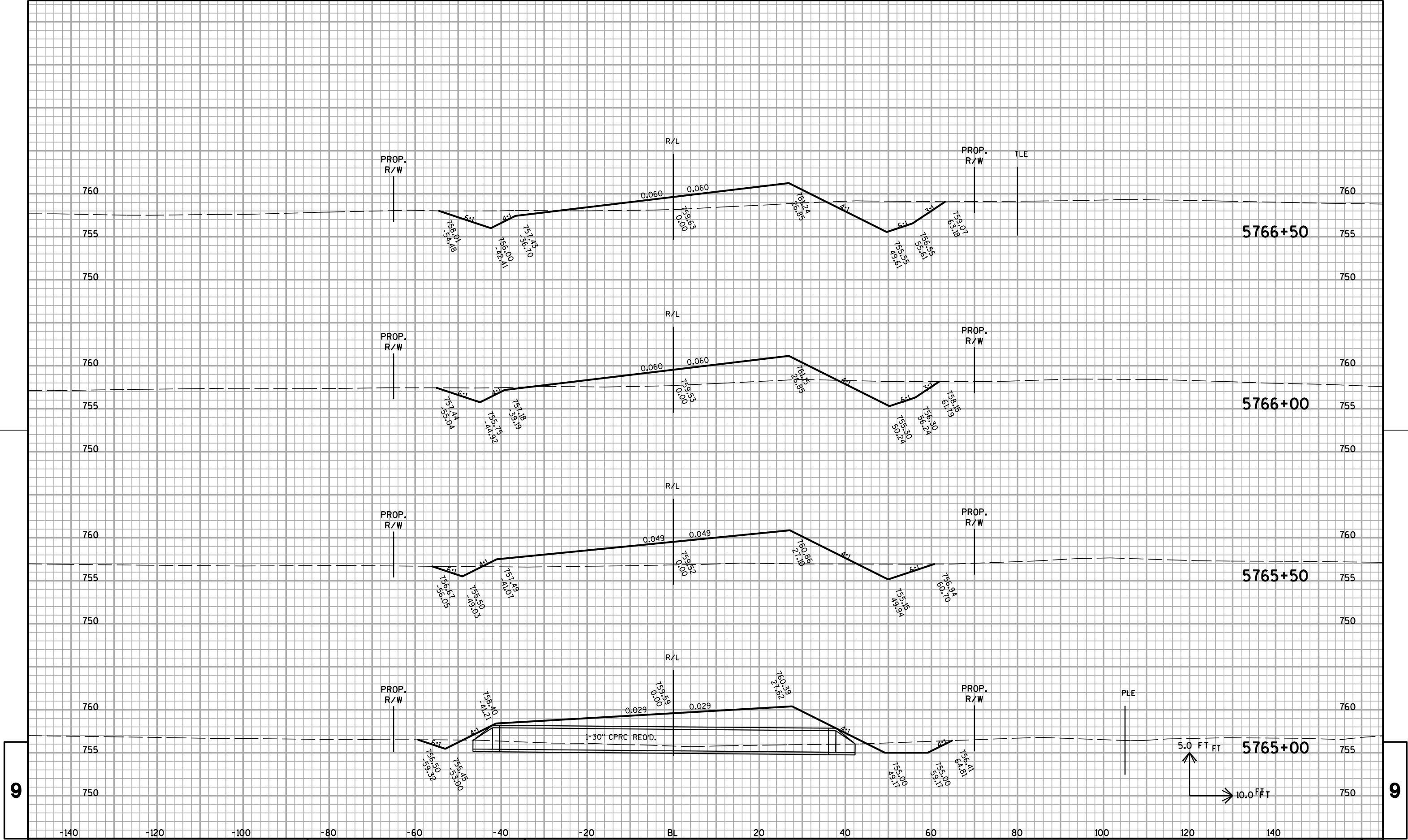
STATION		WEST FRONTAGE ROAD - GRADING												Unadjusted Mass Ordinate
		AREA (SF)				Incremental Vol (CY) (Unadjusted)				Cumulative Vol (CY) (Unadjusted)				
		Cut	Salvaged/Unusable Pavement Material	Fill	EBS	Cut	Salvaged/Unusable Pavement Material	Fill	EBS	Cut 1.00	Salvaged/Unusable Pavement Material	Fill 1.00	EBS	
4761+50	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4762+00	50	13	0	154	146	12	0	143	135	12	0	143	135	-130
4762+50	50	6	0	198	154	18	0	326	278	30	0	469	413	-438
4763+00	50	4	0	225	157	9	0	392	289	39	0	860	702	-821
4763+50	50	2	0	242	159	5	0	432	293	44	0	1,293	994	-1,248
4764+00	50	1	0	264	160	3	0	469	296	47	0	1,761	1,290	-1,714
4764+50	50	1	0	289	163	2	0	512	299	49	0	2,273	1,589	-2,224
4765+00	50	0	0	303	161	1	0	548	300	50	0	2,821	1,889	-2,772
4765+50	50	0	0	320	159	0	0	577	296	50	0	3,398	2,186	-3,348
4766+00	50	0	0	318	154	0	0	591	289	50	0	3,989	2,475	-3,939
4766+50	50	0	0	311	150	0	0	582	282	51	0	4,571	2,757	-4,521
4767+00	50	0	0	307	147	0	0	572	275	51	0	5,144	3,031	-5,093
4767+50	50	0	0	316	0	0	0	577	136	51	0	5,720	3,167	-5,670
4768+00	50	0	0	349	0	0	0	616	0	51	0	6,336	3,167	-6,286
4768+50	50	0	0	361	0	0	0	657	0	51	0	6,994	3,167	-6,943
4769+00	50	0	0	375	0	0	0	681	0	51	0	7,675	3,167	-7,624
4769+50	50	0	0	390	0	0	0	708	0	51	0	8,383	3,167	-8,333
4770+00	50	0	0	410	0	0	0	741	0	51	0	9,124	3,167	-9,074
4770+50	50	0	0	446	0	0	0	793	0	51	0	9,917	3,167	-9,866
4771+00	50	0	0	437	0	0	0	818	0	51	0	10,734	3,167	-10,684
4771+50	50	0	0	423	0	0	0	796	0	51	0	11,531	3,167	-11,480
4772+00	50	1	0	396	0	1	0	758	0	51	0	12,289	3,167	-12,238
4772+50	50	6	0	346	0	6	0	687	0	57	0	12,976	3,167	-12,918
WEST FRONTAGE ROAD TOTAL						57	0	12,976	3,167	57	0	12,976	3,167	-12,918

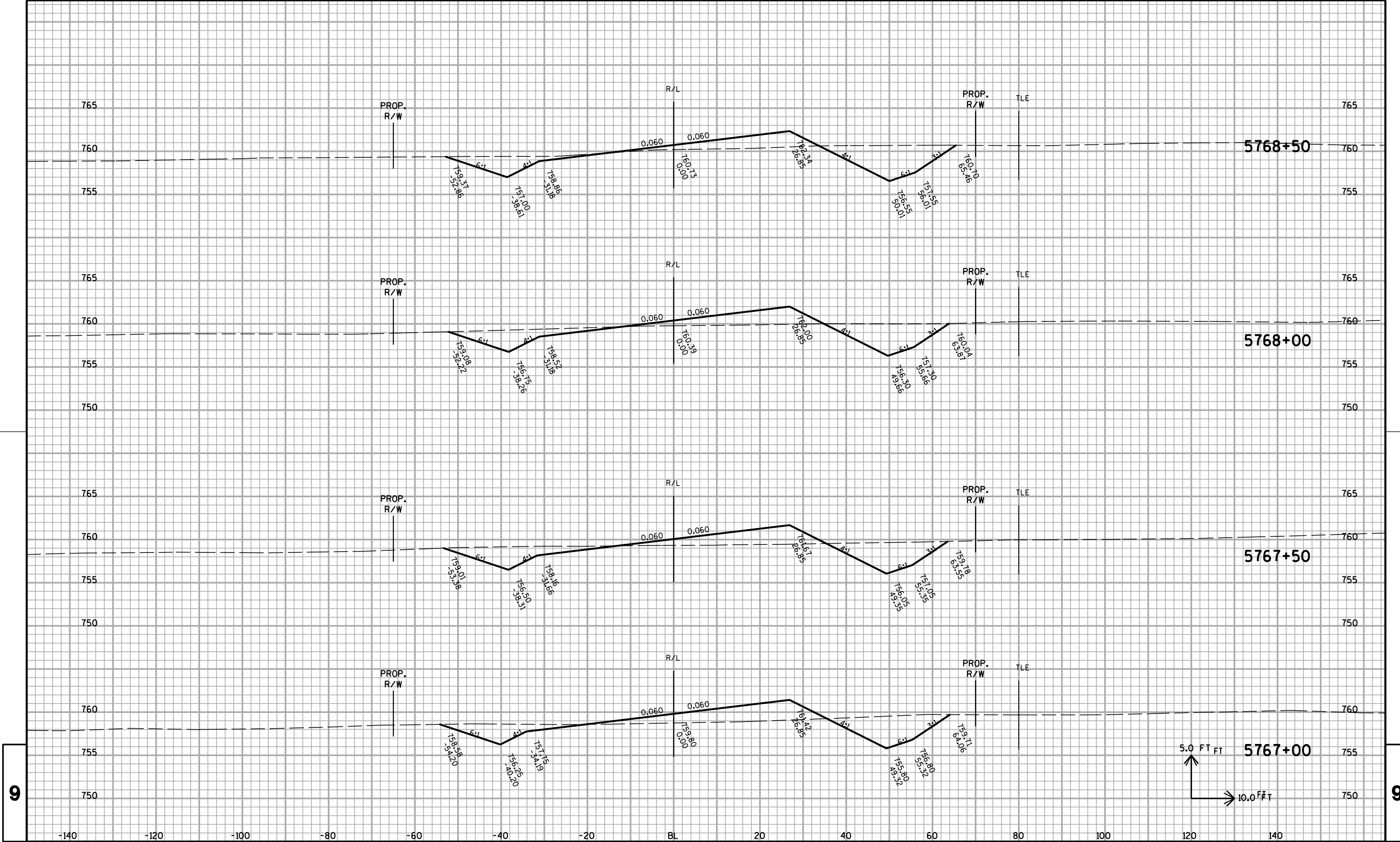
NOTE:
PAVEMENT SECTION CONSISTING OF 5 1/2" HMA,
12" BASE AGGREGATE DENSE 1 1/4-INCH SPECIAL,
AND 8" SELECT SUBBASE TO BE CONSTRUCTED
BY OTHERS UNDER PROJECT ID 1030-24-70.

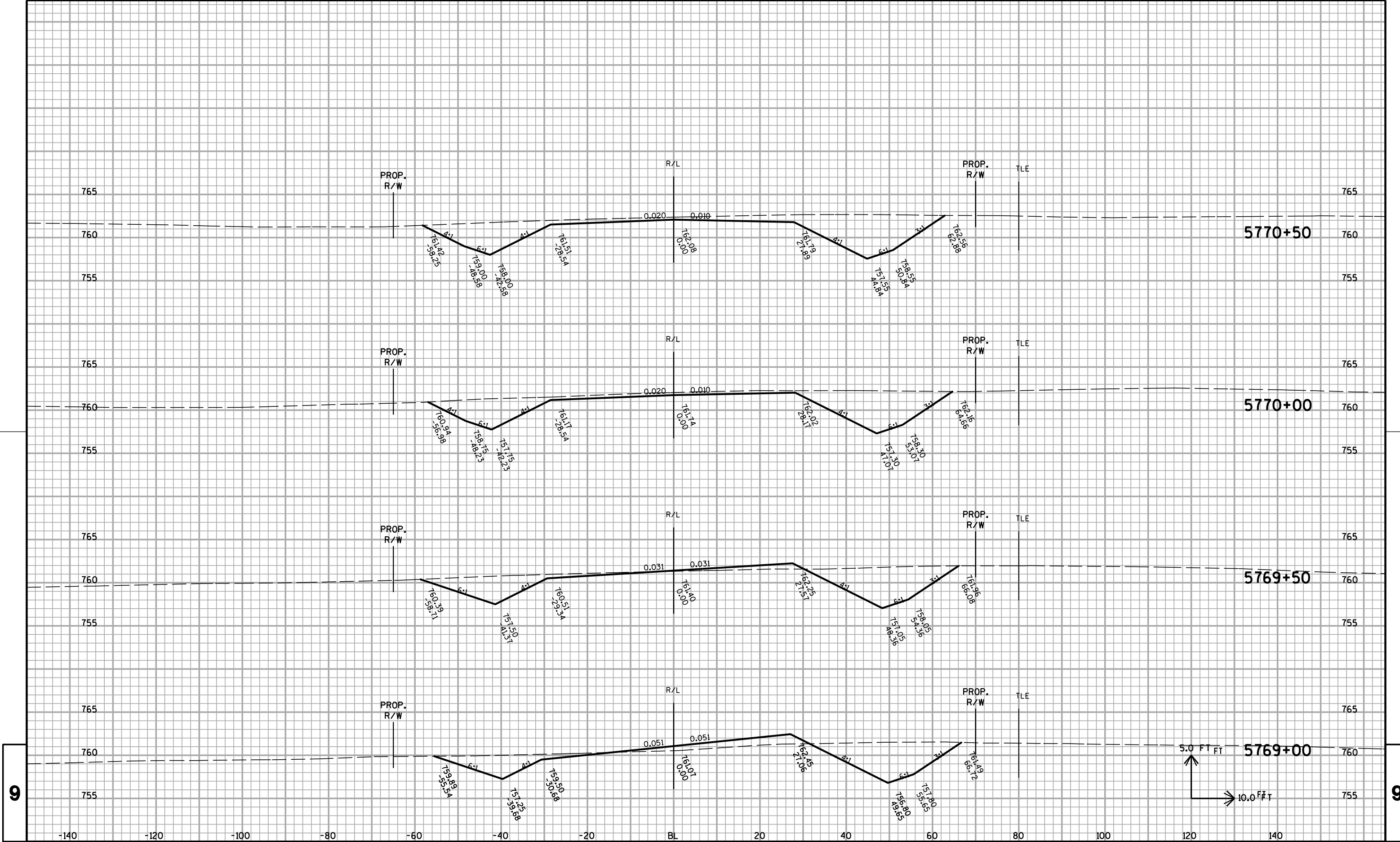


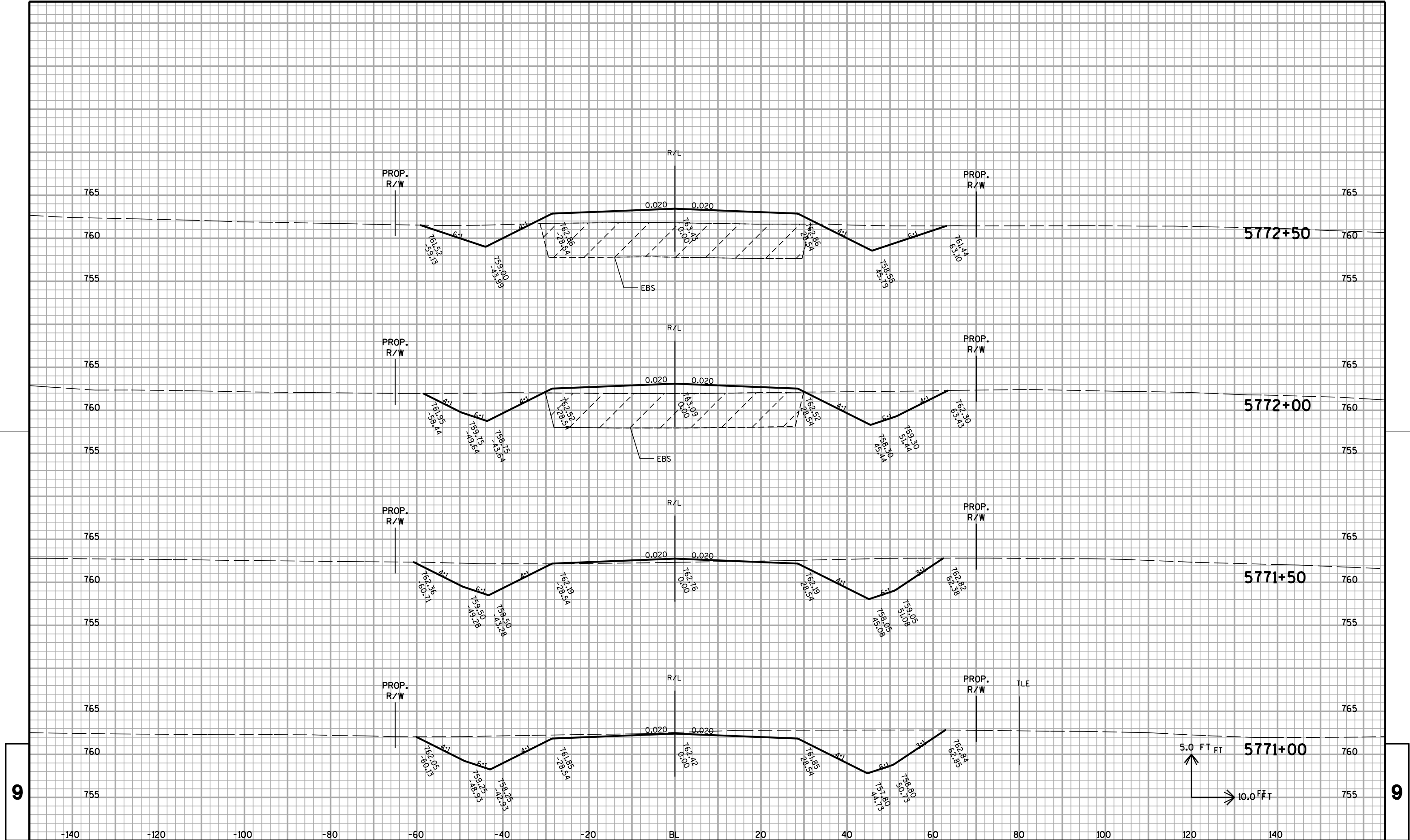
9

9









9

9

PROJECT NO:1030-24-76

HWY: IH 94

COUNTY: RACINE

CROSS SECTIONS: EAST FRONTAGE ROAD GRADING

SHEET

E

FILE NAME : Z:\Racine\CADD\13\13_Grading\CDS\090201_xs.DGN

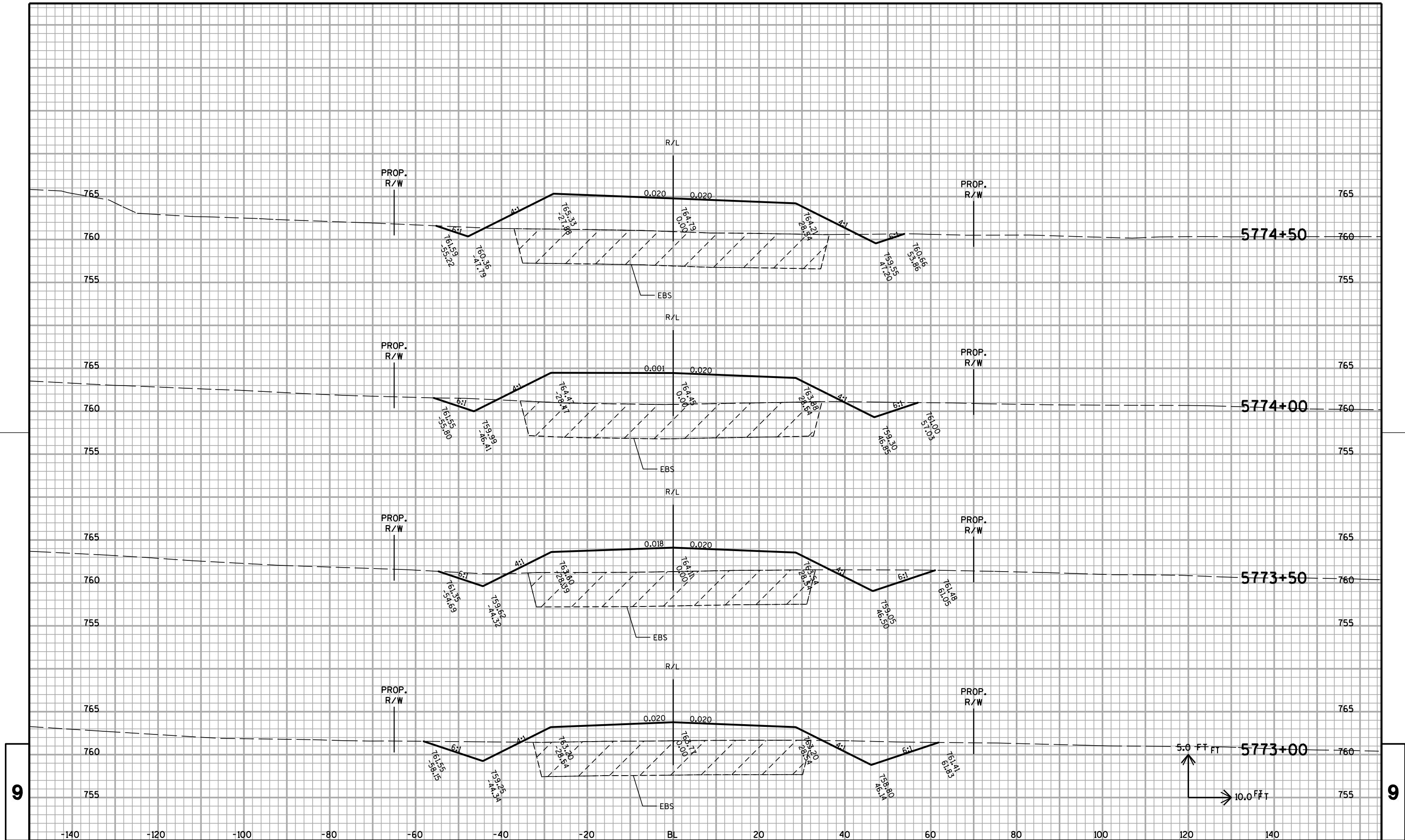
PLOT DATE : 10/23/2012

PLOT BY : b.jw

PLOT NAME :

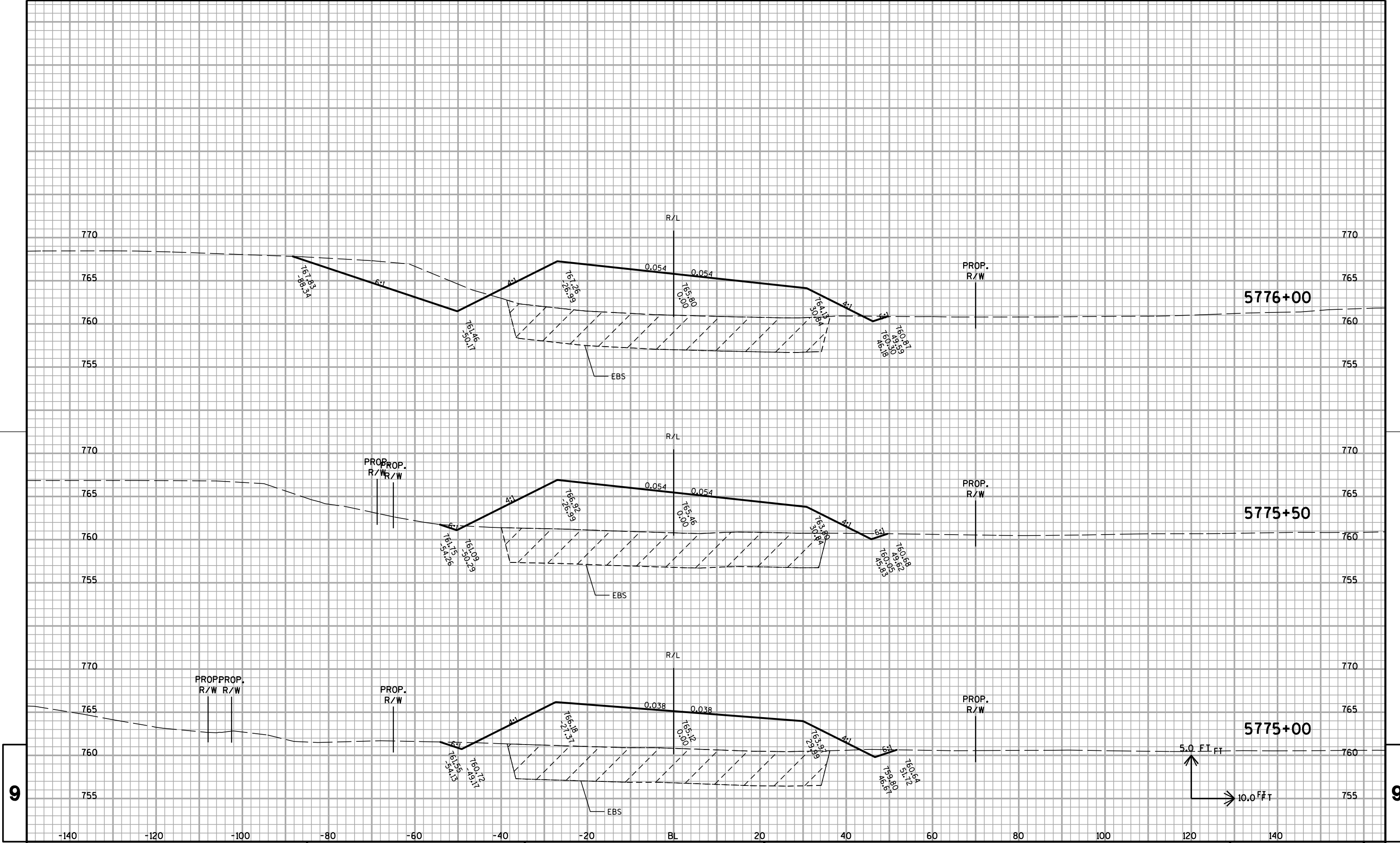
PLOT SCALE : 1:2

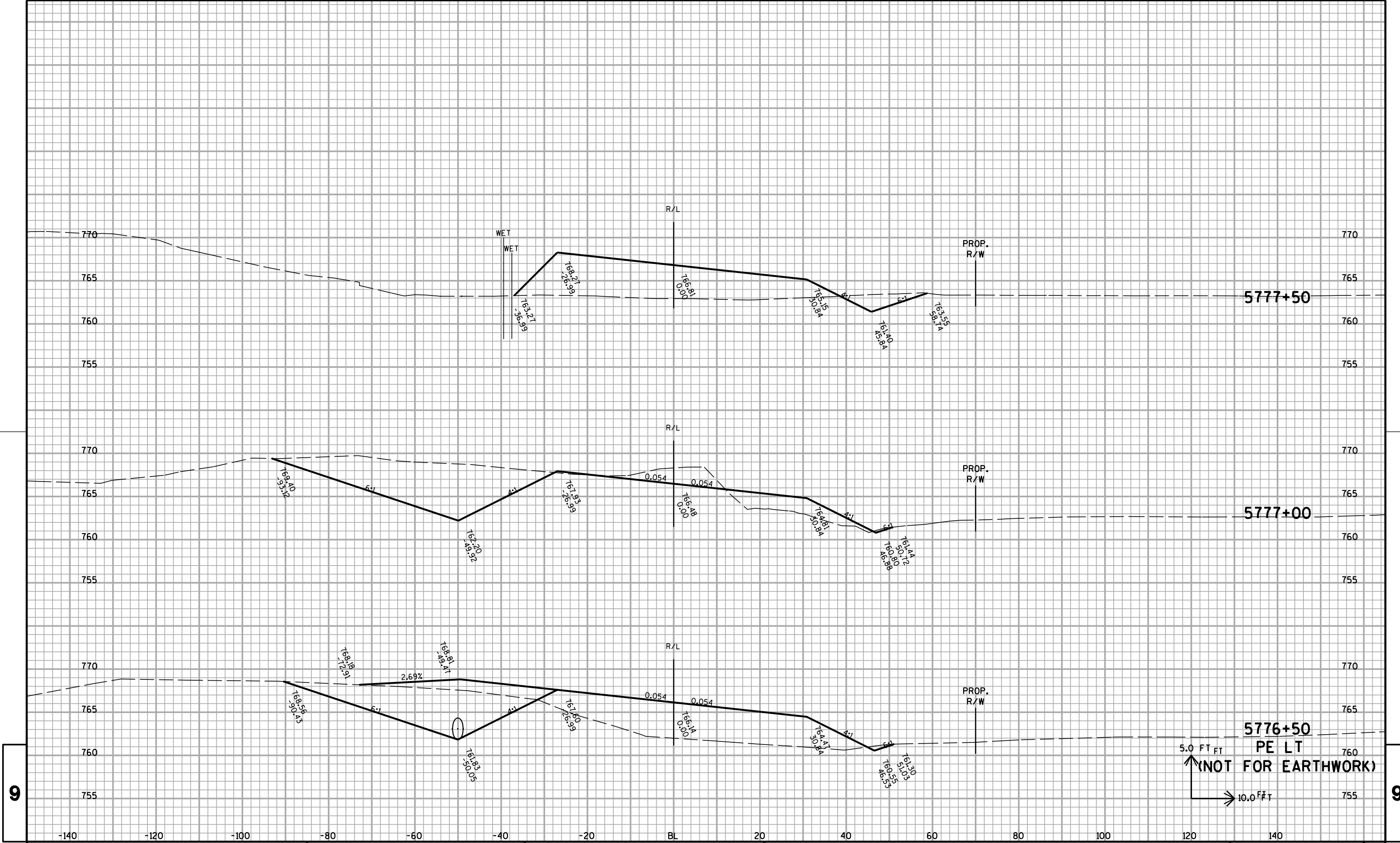
WISDOT/CADD SHEET 21

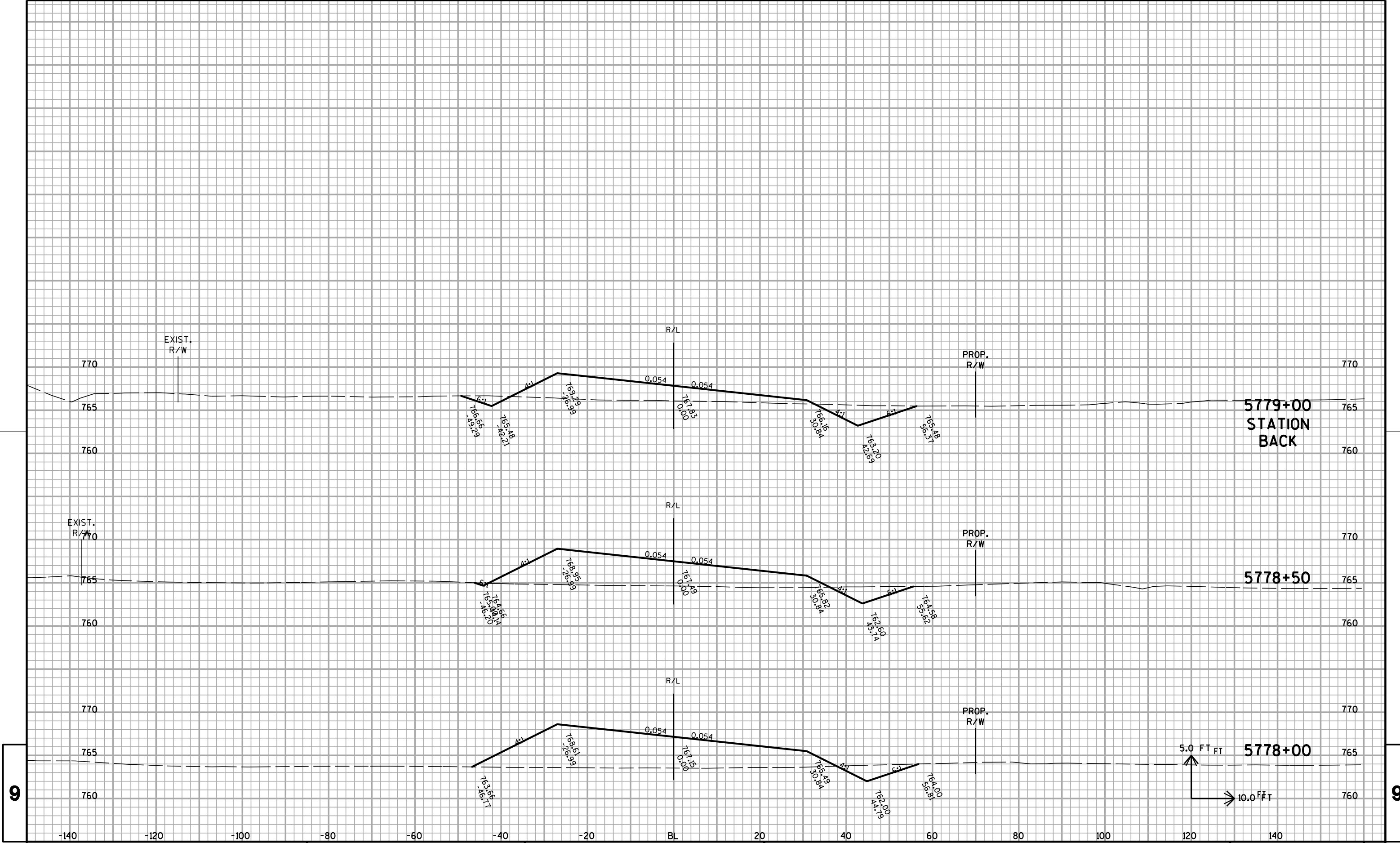


9

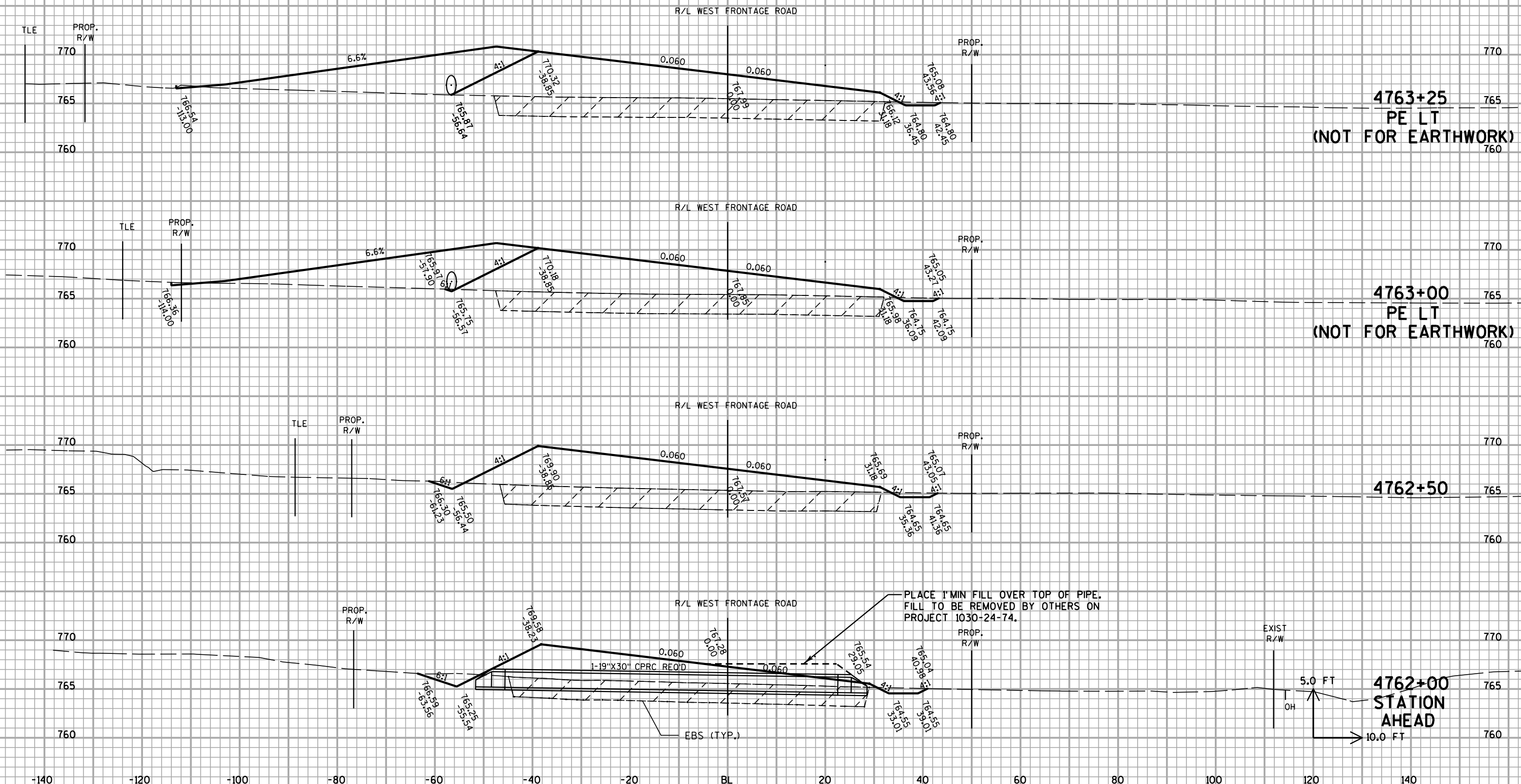
9







NOTE:
PAVEMENT SECTION CONSISTING OF 5 1/2" HMA,
12" BASE AGGREGATE DENSE 1 1/4-INCH SPECIAL,
AND 8" SELECT SUBBASE TO BE CONSTRUCTED
BY OTHERS UNDER PROJECT ID 1030-24-74



PROJECT NO:1030-24-76

HWY: IH 94

COUNTY: RACINE

CROSS SECTIONS: WEST FRONTAGE ROAD GRADING

SHEET

E

FILE NAME : Z:\Racine\CADD\13\13_Grading\CDS\090202_xs.DGN

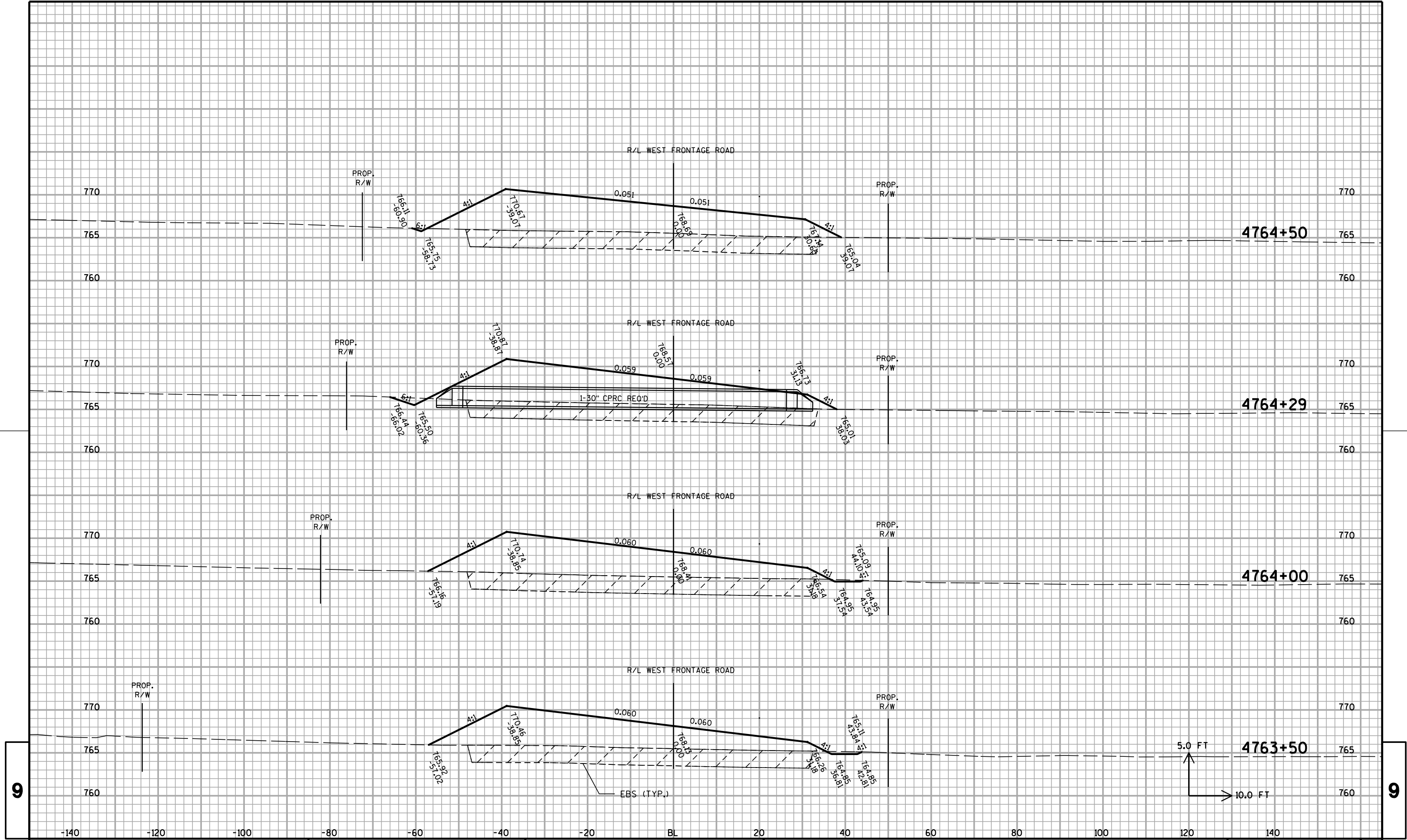
PLOT DATE : 10/23/2012

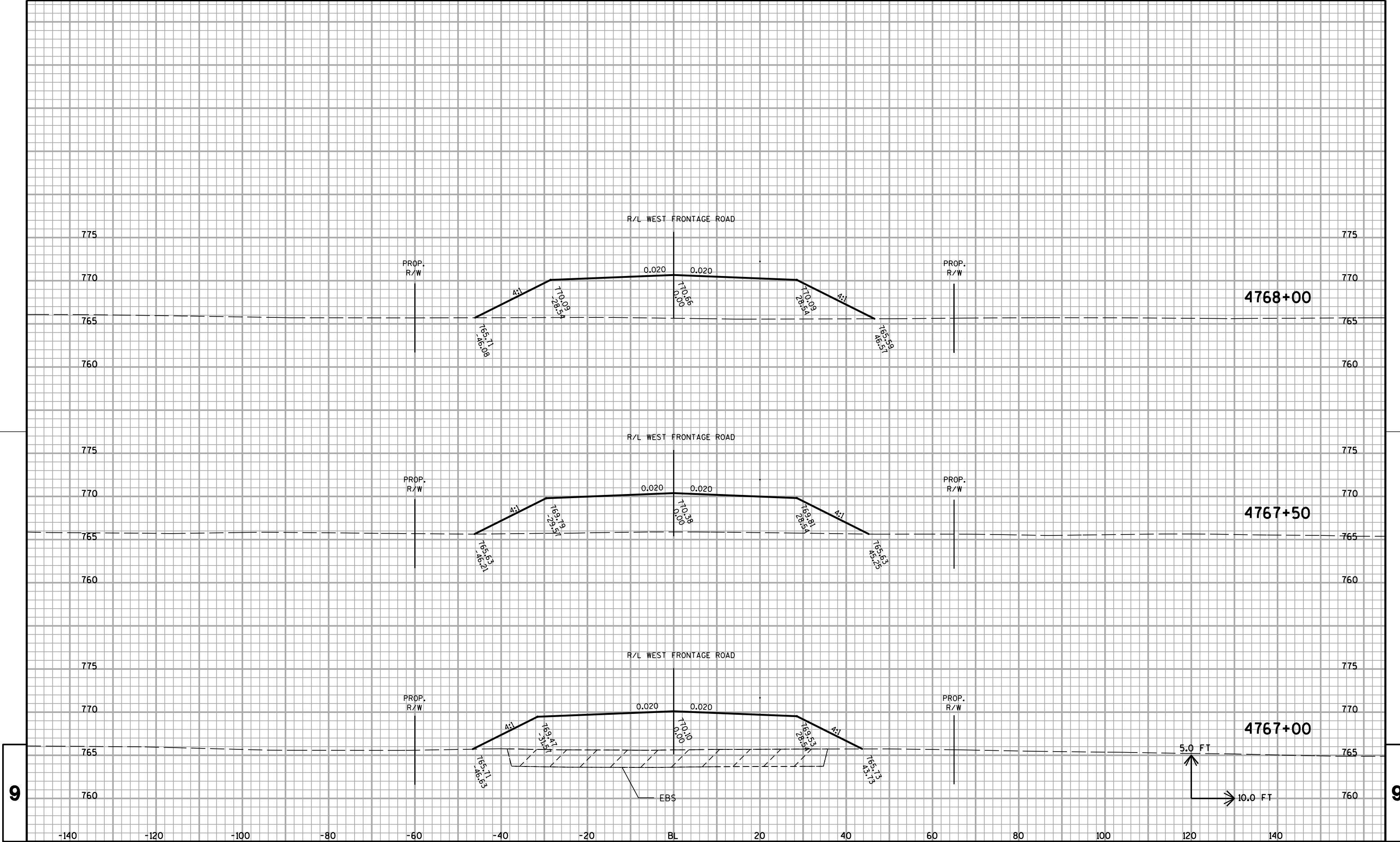
PLOT BY : bjw

PLOT NAME :

PLOT SCALE : 1:2

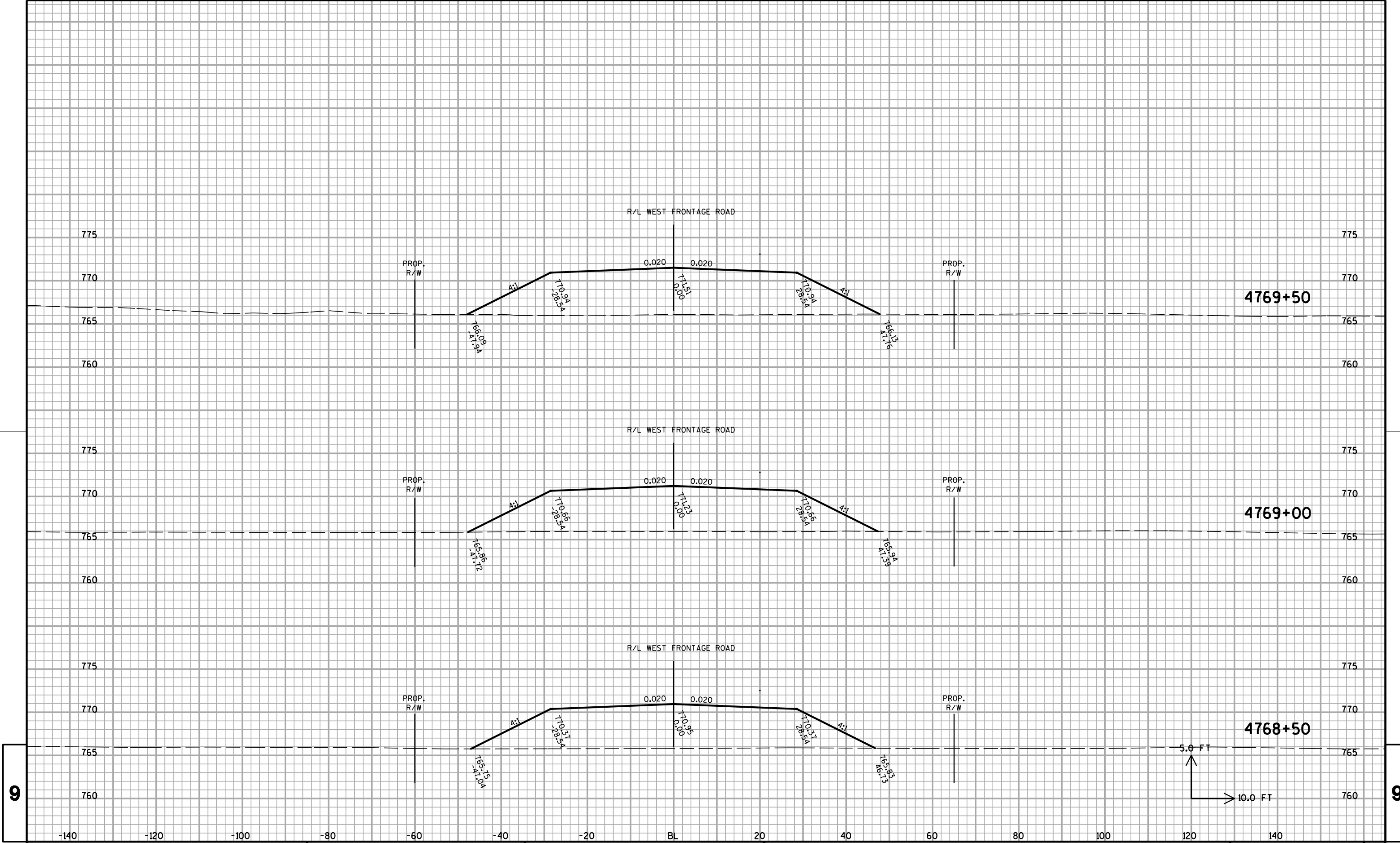
WISDOT/CADD SHEET 21

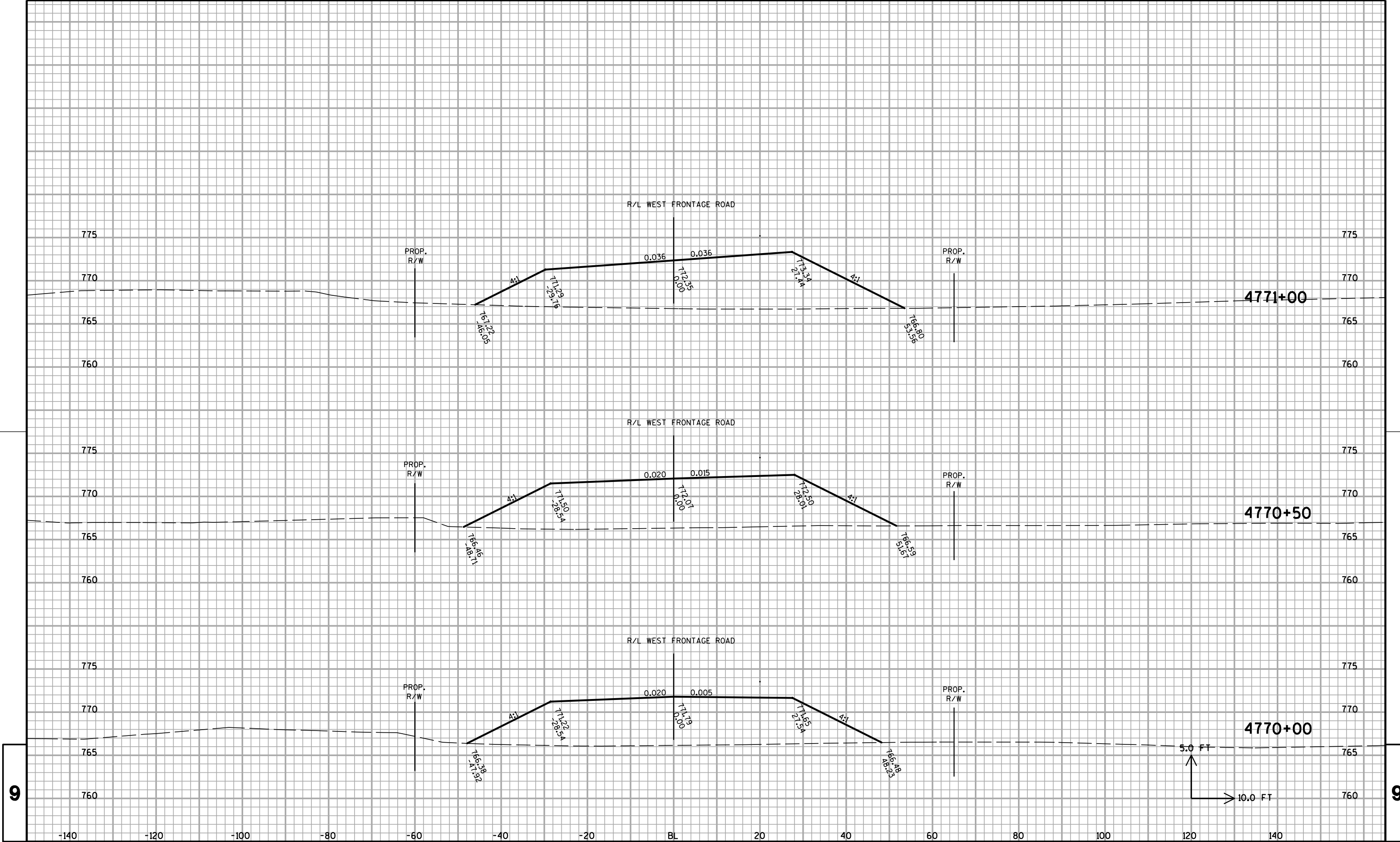




9

9

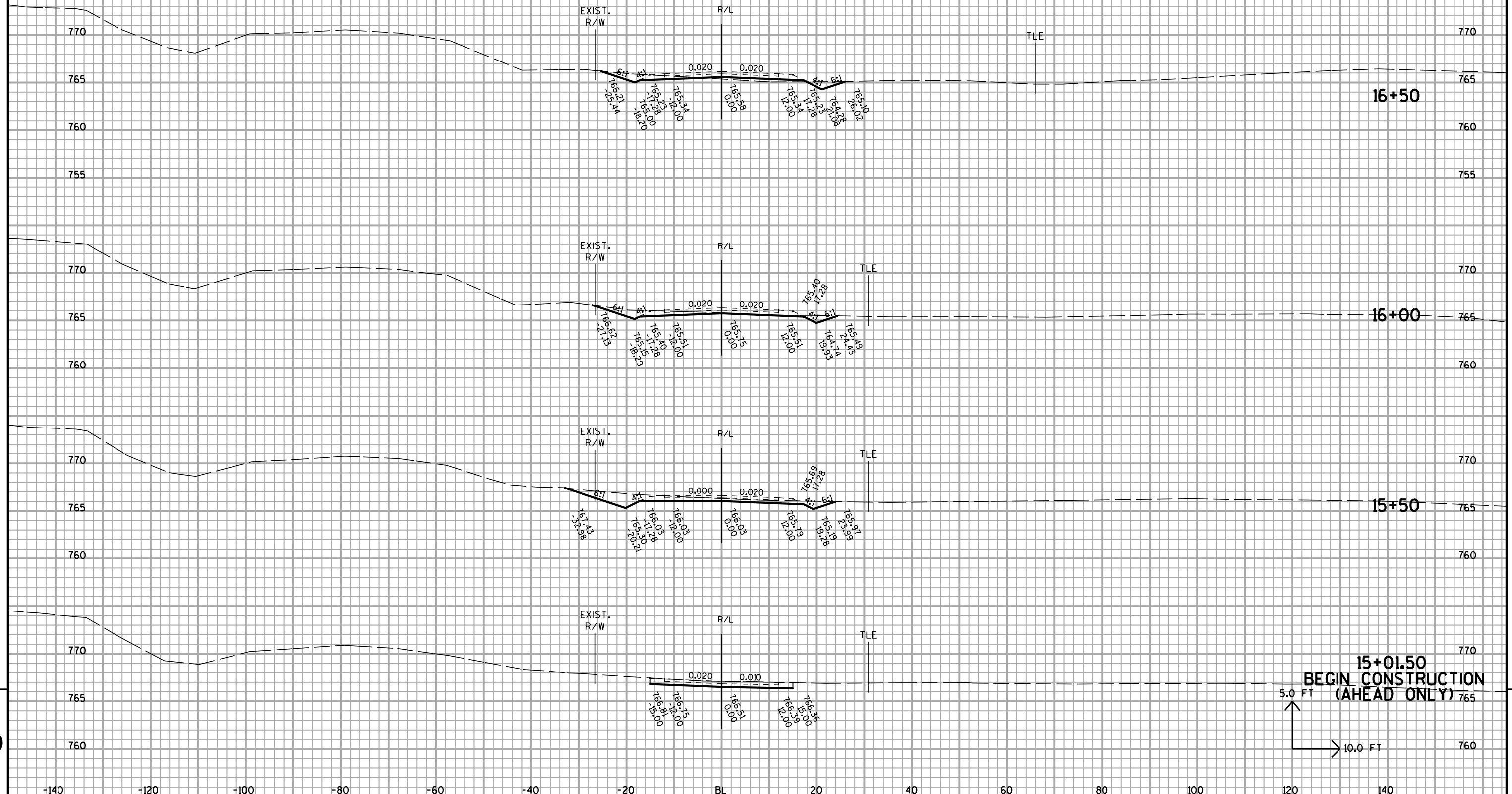




9

9

NOTE:
PAVEMENT SECTION CONSISTING OF 3" HMA
AND 4" BASE AGGREGATE DENSE 1 1/4-INCH
SPECIAL TO BE CONSTRUCTED BY OTHERS
UNDER PROJECT ID 1030-24-70.



9

9

PROJECT NO: 1030-24-76

HWY: IH 94

COUNTY: RACINE

CROSS SECTIONS - PRIVATE DRIVEWAY A GRADING

SHEET NO:

E

FILE NAME : Z:\Racine\CADD\13\13.Grading\CDS\090203_xs.DGN

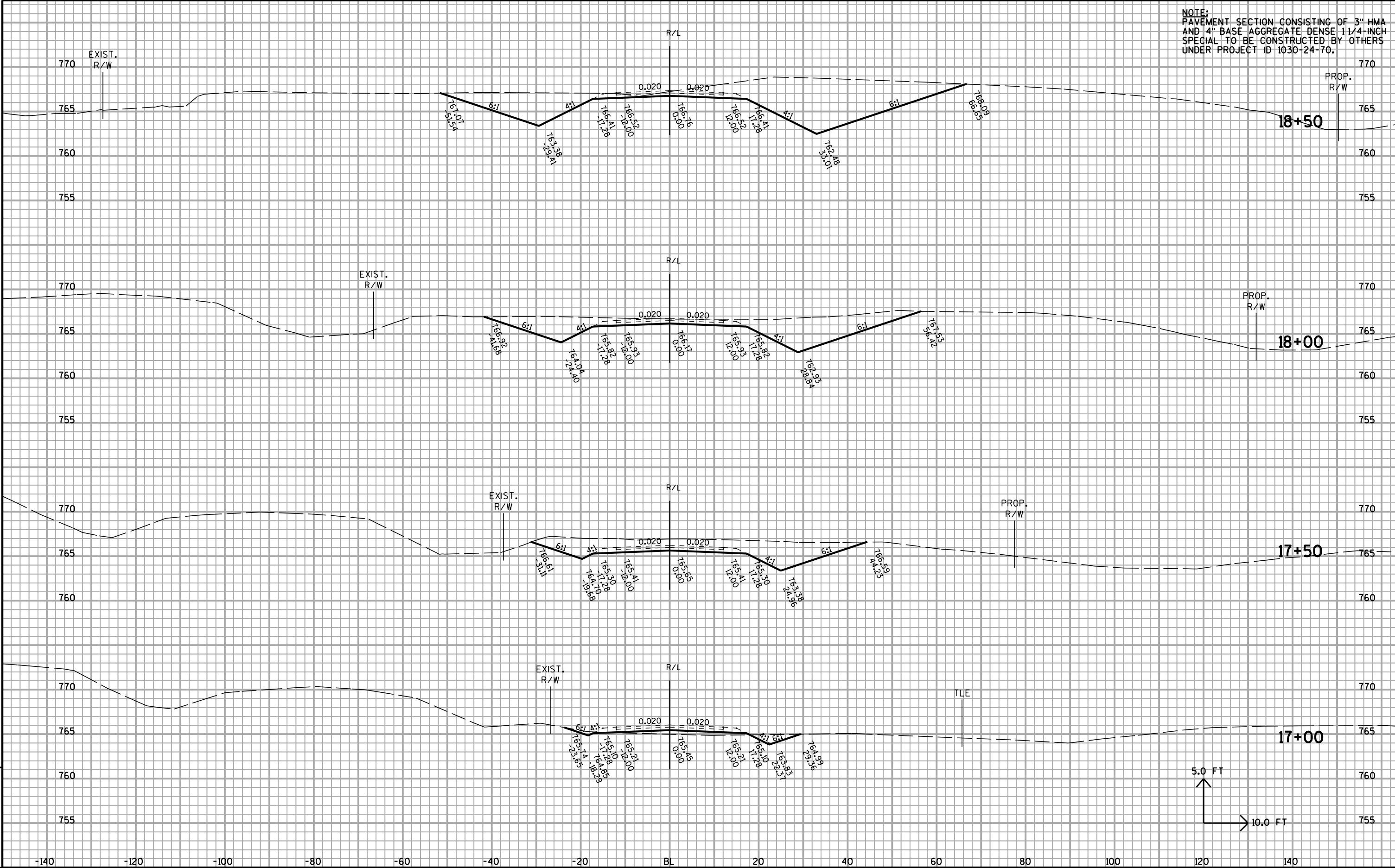
PLOT DATE : 10/23/2012

PLOT BY : bjw

PLOT NAME :

PLOT SCALE : 1:2

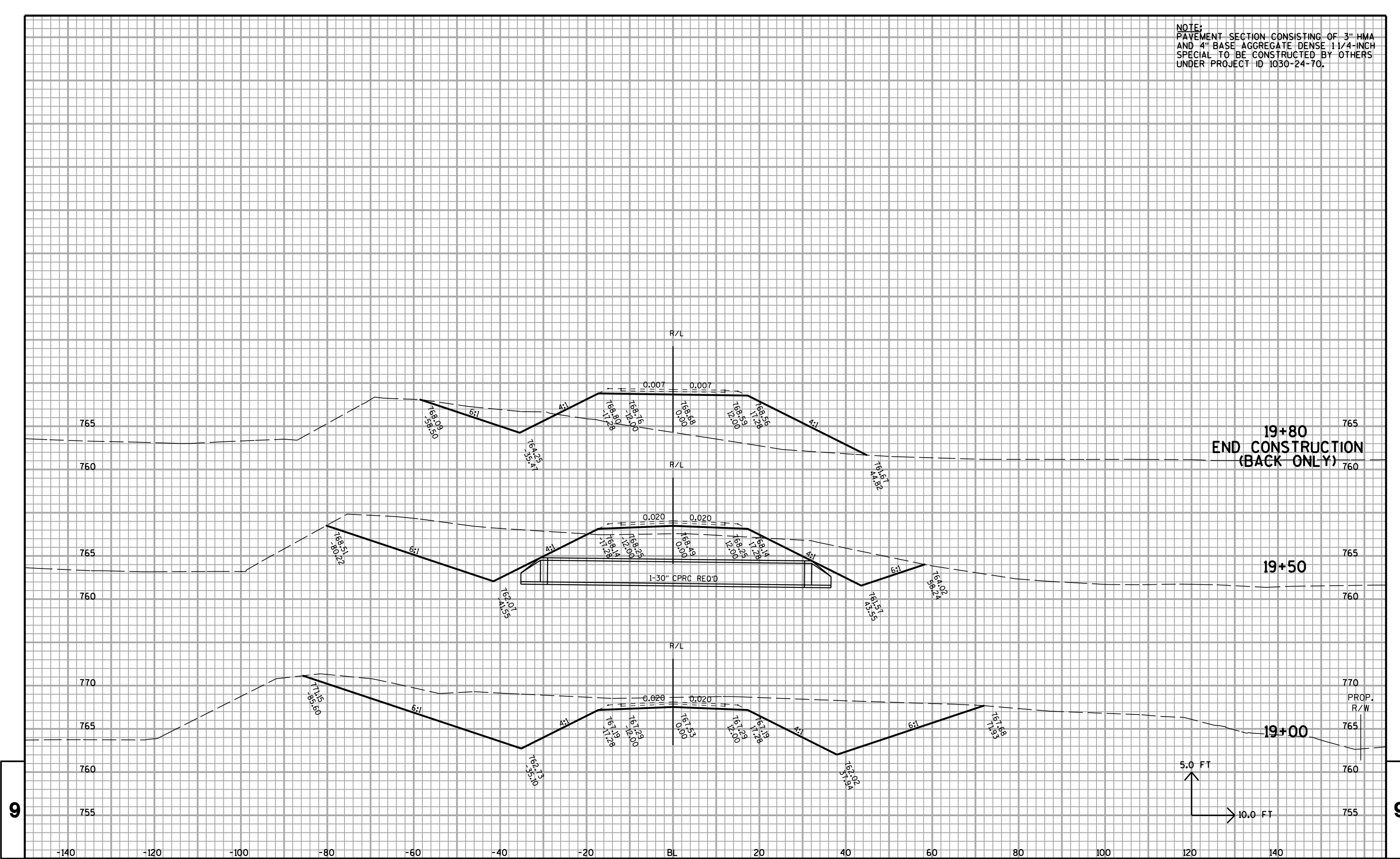
NOTE:
PAVEMENT SECTION CONSISTING OF 3" HMA
AND 4" BASE AGGREGATE DENSE 1 1/4-INCH
SPECIAL TO BE CONSTRUCTED BY OTHERS
UNDER PROJECT ID 1030-24-70.

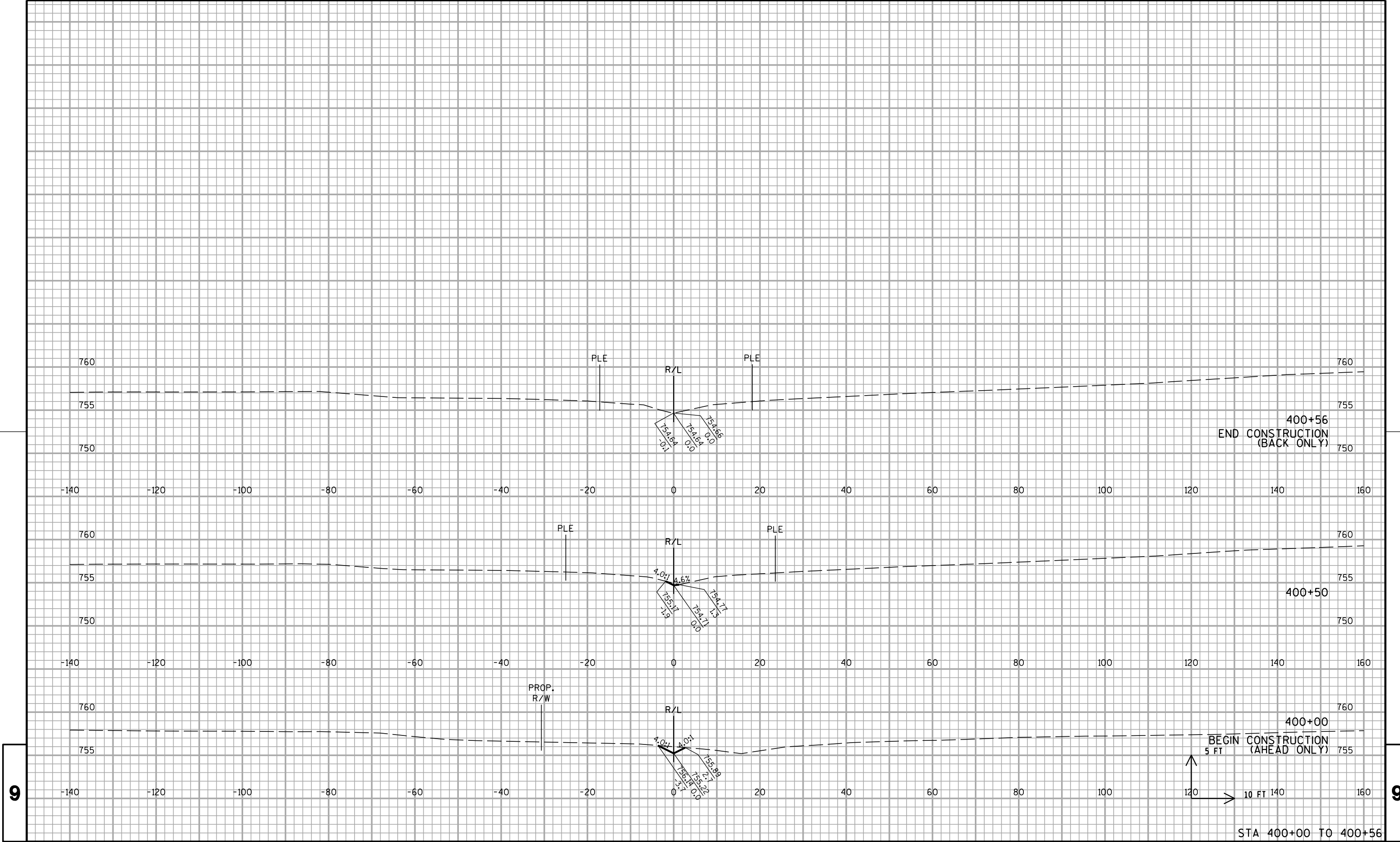


9

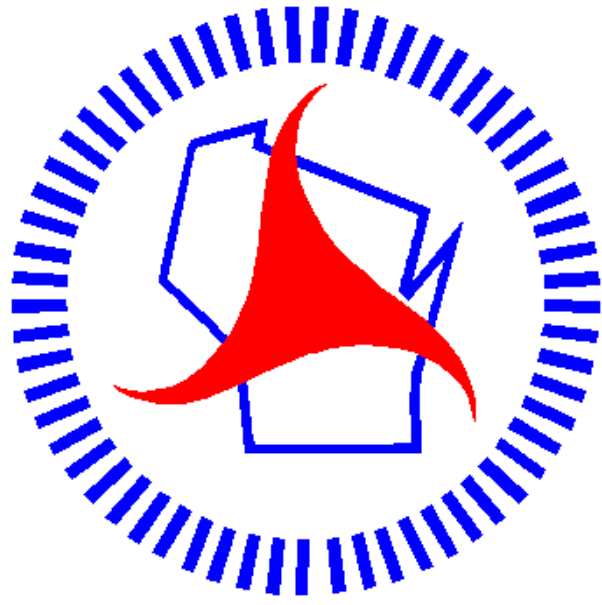
9

NOTE:
PAVEMENT SECTION CONSISTING OF 3" HMA
AND 4" BASE AGGREGATE DENSE 1 1/4-INCH
SPECIAL TO BE CONSTRUCTED BY OTHERS
UNDER PROJECT ID 1030-24-70.





Notes



Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

<http://www.dot.wisconsin.gov>