

DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

FAP ROUTE 331 (ILLINOIS 13)
SECTION (1-3)R-3

FRONTAGE ROAD NORTH OF IL 13
WILLIAMSON COUNTY

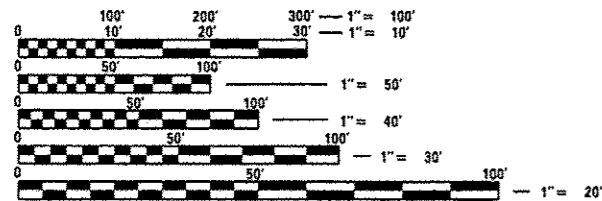
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
331	(1-3)R-3	WILLIAMSON	58	1
		ILLINOIS	CONTRACT NO. 78259	

FOR INDEX OF SHEETS, SEE DRAWING GE-03
FOR SUMMARY OF QUANTITIES, SEE DRAWING SQ-01 TO SQ-03

TRAFFIC DATA

MAIN ST TO WOLF CREEK RD - N/A

TOWNSHIPS:
CARTERVILLE

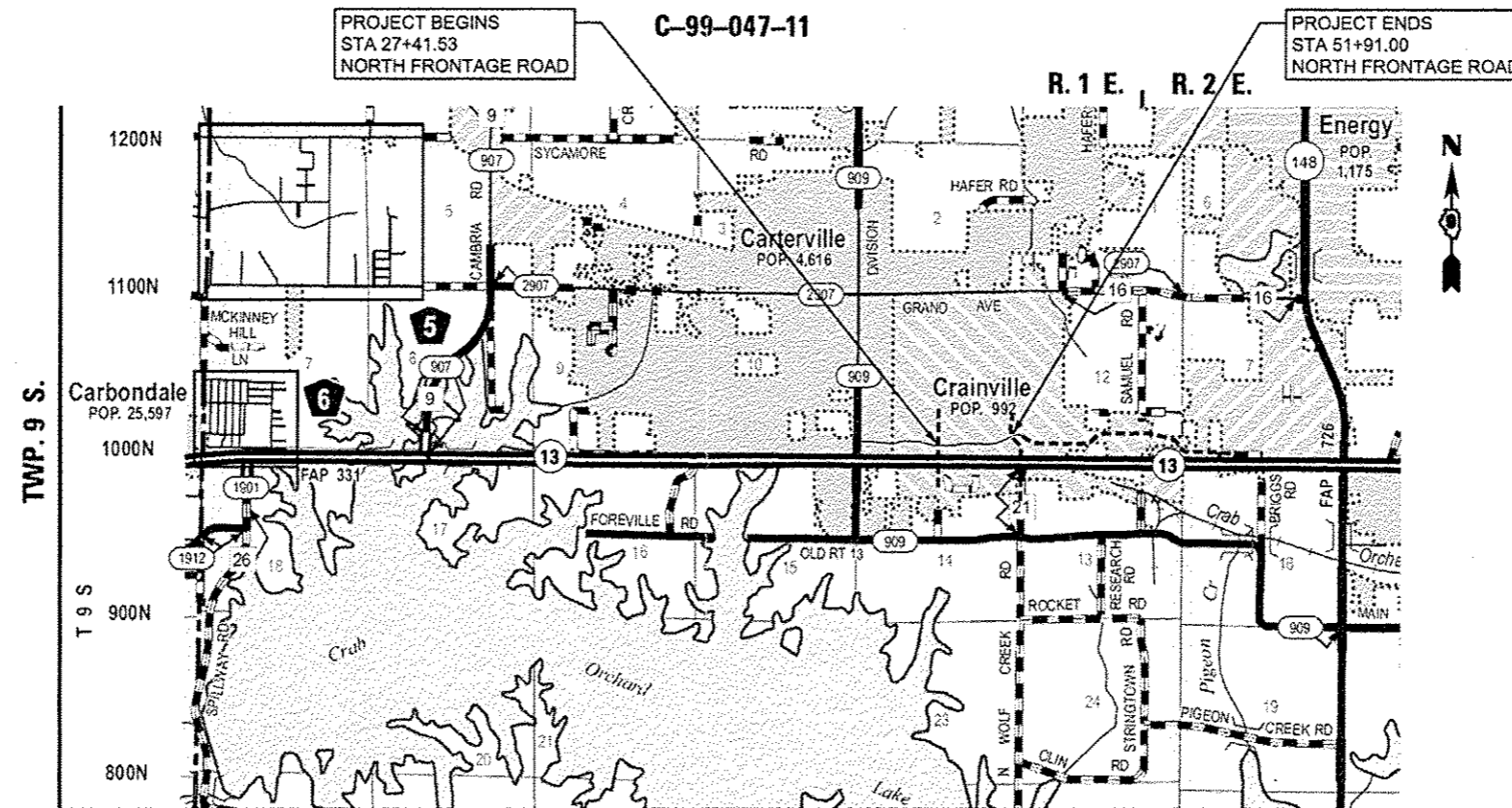


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

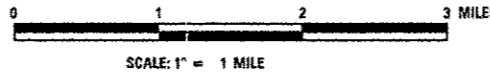
J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

PROJECT ENGINEER: MELISSA COLE (618) 351-5216
PROJECT MANAGER: CHARLES STEIN (618) 351-5210

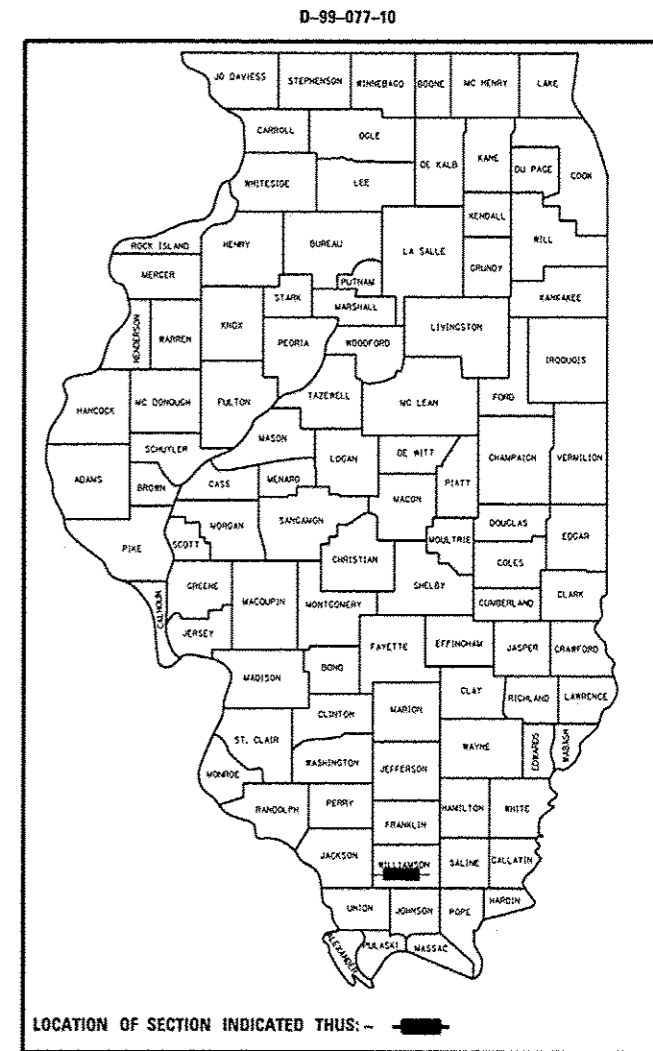
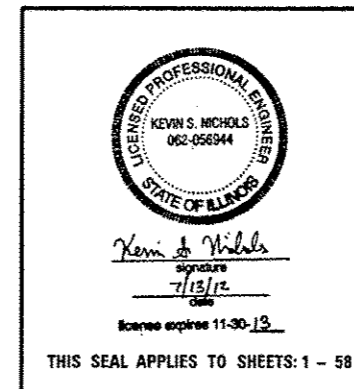
CONTRACT NO. 78259



PLANS PREPARED BY:
CH2MHILL
8735 West Higgins Road, Suite 400, Chicago, IL 60631 Tel: (773) 683-3800



GROSS / NET LENGTH = 2449.47 FT. = 0.464 MILE



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED Dec 13 2012
Omer Osman
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

March 22 2013
John D. Baranzelli, PE
ENGINEER OF DESIGN AND ENVIRONMENT

March 22 2013
Omer Osman, PE
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS**

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Examined By: *Dan J. Jurek*
DISTRICT CONSTRUCTION ENGINEER

Examined By: *Bruce W. Bales*
DISTRICT MATERIALS ENGINEER

Examined By: *KRLS*
DISTRICT PROJECT IMPLEMENTATION ENGINEER

Approved By: *Omer Osman*
DEPUTY DIRECTOR OF HIGHWAYS, REGION 5 ENGINEER

Dec 13, 2012
DATE

FILE NAME *	USER NAME * BUSCR0	DESIGNED - CK	REVISED -
ca:\pw_work\pando\loc\leam\0260145\0978	59-shr-signature.dgn	DRAWN - MP	REVISED -
CH2MHILL	PLOT SCALE * 2.8889 "/ in.	CHECKED - DM	REVISED -
	PLOT DATE * 12/12/2012	DATE - 7/6/2012	REVISED -

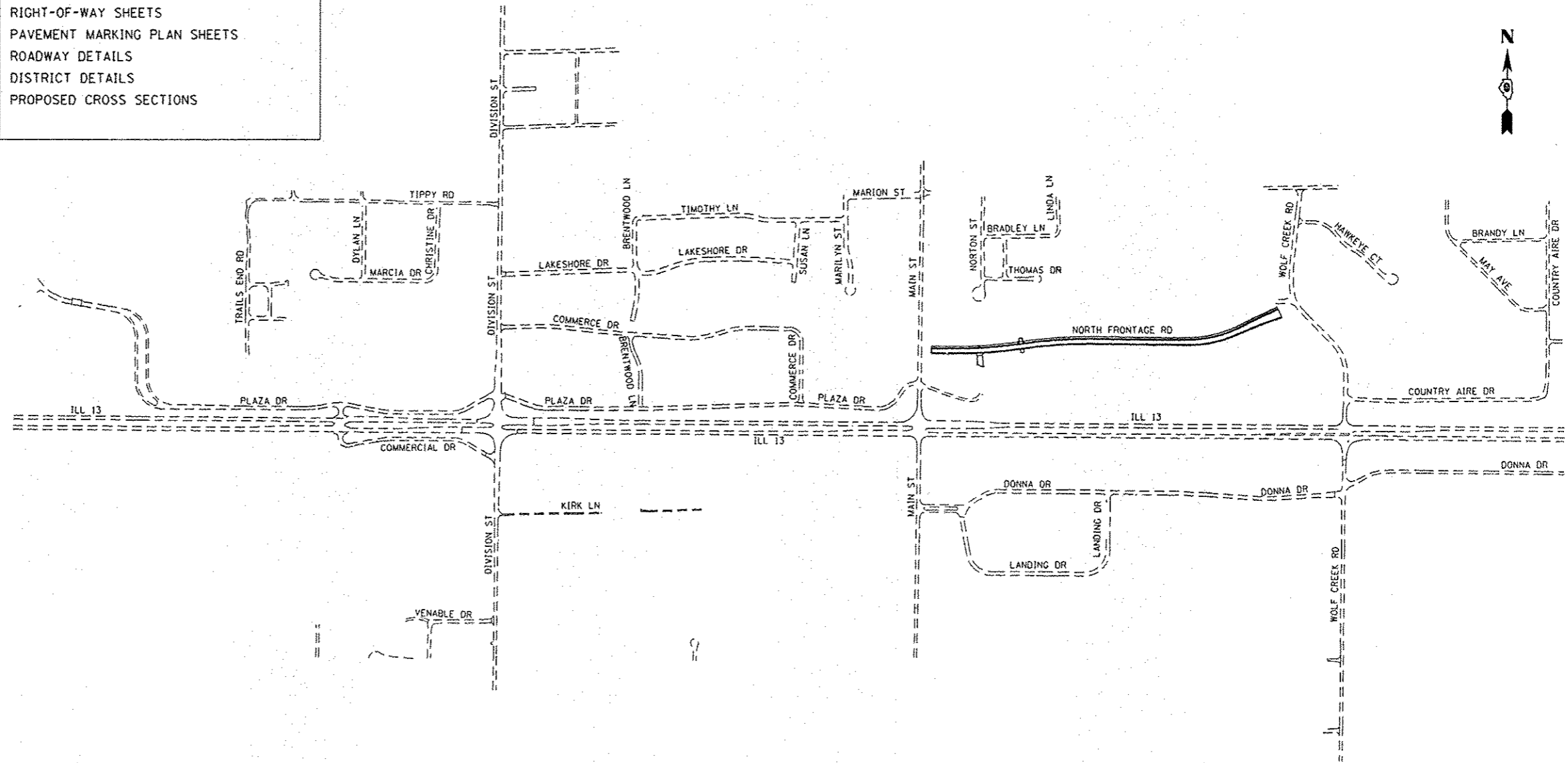
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SIGNATURE SHEET
NORTH FRONTAGE ROAD**

SCALE: SHEET NO. 2 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
331	01-31R-3	WILLIAMSON	58	2
DRAWING NO.		CONTRACT NO. 78259		
ILLINOIS FED. AID PROJECT				

SHEET NO.	DRAWING NO.	INDEX OF SHEETS
1	COVER	COVER SHEET
2	SIGNATURE	SIGNATURE SHEET
3	GENERAL NOTE-01	INDEX OF SHEETS AND SITE PLAN
4	GENERAL NOTE-02	HIGHWAY STANDARDS AND MIX DESIGN
5	GENERAL NOTE-03	GENERAL NOTES AND COMMITMENTS
6-8	S00-1 - S00-3	SUMMARY OF QUANTITIES
9-10	TYPICAL-01 - TYPICAL 02	TYPICAL SECTIONS
11-14	SCH-01 - SCH-04	SCHEDULES OF QUANTITIES
15-19	ATB-01 - ATB-05	ALIGNMENT, TIES AND BENCHMARKS
20	SE-01	SUPERELEVATION DETAIL
21-25	PLNPRF-01 - PLNPRF05	PLAN AND PROFILE SHEETS
26-28	EROS-01 - EROS-03	EROSION AND SEDIMENT CONTROL SHEETS
29-33	DRAIN-01 - DRAIN-05	DRAINAGE AND UTILITIES SHEETS
34-35	RO0403-SHT-78259	RIGHT-OF-WAY SHEETS
36-38	PMK-01 - PMK-03	PAVEMENT MARKING PLAN SHEETS
39	DT-01	ROADWAY DETAILS
40-43	DD-01 - DD-04	DISTRICT DETAILS
44-58	XSSHT-NORTH-FRONTAGE-01 - XSSHT-NORTH-FRONTAGE-15	PROPOSED CROSS SECTIONS



HIGHWAY STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
424001-07	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
542401-01	METAL END SECTION FOR PIPE CULVERTS
602701-02	MANHOLE STEPS
604001-03	FRAME AND LIDS TYPE 1
606001-05	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
666001-01	RIGHT OF WAY MARKERS
667101-02	PERMANENT SURVEY MARKERS
701901-02	TRAFFIC CONTROL DEVICES
780001-03	TYPICAL PAVEMENT MARKINGS
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

MIX DESIGN

LOCATION(S):	HOT-MIX ASPHALT SURFACE COURSE (NORTH FRONTAGE ROAD, SHARED USE PATH, DRIVEWAYS)
MIXTURE USE(S):	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70
AC/PG:	PG64-22
RAP% (MAX):	10
DESIGN AIR VOIDS:	4.0%, 70 GYRATION DESIGN
MIXTURE COMPOSITION:	IL-9.5 mm OR IL-12.5 mm
FRICTION AGGREGATE:	C SURFACE
LOCATION(S):	HOT-MIX ASPHALT BINDER COURSE (NORTH FRONTAGE ROAD)
MIXTURE USE(S):	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90
AC/PG:	PG64-22
RAP% (MAX):	10
DESIGN AIR VOIDS:	4.0%, 90 GYRATION DESIGN
MIXTURE COMPOSITION:	IL-19.0
FRICTION AGGREGATE:	NONE

GENERAL NOTES

THE THICKNESS OF HOT-MIX ASPHALT MIXTURE SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HOT-MIX ASPHALT MIXTURE IS PLACED.

IF SO DIRECTED BY THE ENGINEER, DITCHES ADJACENT TO EMBANKMENTS SHALL BE CONSTRUCTED PRIOR TO STARTING THE CONSTRUCTION OF THE EMBANKMENT FILL.

THE ALGEBRAIC DIFFERENCE BETWEEN THE PAVEMENT AND SHOULDER SLOPES SHALL NOT EXCEED 8%. THE SHOULDER ON THE OUTSIDE OF SUPERELEVATED CURVES SHALL BE FLATTENED ACCORDINGLY.

FACTORS USED FOR ESTIMATING PLAN QUANTITIES ARE AS FOLLOWS AND SHALL NOT BE USED FOR THE BASIS OF FINAL QUANTITIES:

ALL HOT-MIX ASPHALT 2.016 TONS/ CU YD
 ALL AGGREGATE 2.05 TONS/ CU YD
 BITUMINOUS MATERIALS:
 ON PAVEMENT 0.09 GAL/ SQ YD

WEIGHT OF EARTH 110 LBS/ CU FT
 LIME @ 5% WEIGHT OF EARTH

ON AGGREGATE SURFACE 0.32 GAL / SQ YD
 AGGREGATE (PRIME COAT) 0.0015 TONS / SQ YD
 RIPRAP 1.50 TONS / CU YD

TREES SHALL BE PRESERVED THROUGHOUT THIS SECTION AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER. GENERALLY, TREES OUTSIDE THE CLEAR ZONE, AND WHICH DO NOT INTERFERE WITH CONSTRUCTION, SHALL NOT BE DISTURBED.

FORMS FOR COMBINATION CONCRETE CURB AND GUTTER SHALL BE OF METAL ONLY, EXCEPT THAT WOOD FORMS MAY BE USED ON SHORT RADIUS CURVES.

PROTECTIVE COAT SHALL BE APPLIED TO ALL GUTTER FLAGS, FACE OF CURB AND MEDIAN SURFACE AS NEEDED ACCORDING TO THE SEASONAL REQUIREMENTS FOR ARTICLE 420.18 OF THE STANDARD SPECIFICATIONS.

TRENCH BACKFILL REQUIRED FOR STORM SEWER, SANITARY SEWER OR WATER MAINS SHALL ONLY BE PLACED UP TO ONE FOOT BELOW THE FINAL GRADE IN AREAS HAVING A PROPOSED GRASS OR SOD SURFACE.

THE CONTRACTOR SHALL STAMP STATIONING IN THE HOT-MIX ASPHALT SURFACE AT 300 FT. INTERVALS ON THE OUTSIDE EDGE OF PAVEMENT AND AS DIRECTED BY THE ENGINEER. THE STATION SYMBOL STAMPS USED SHALL BE FURNISHED BY THE CONTRACTOR. THEY SHALL BE 5 1/2 IN. TALL OF A DESIGN APPROVED BY THE ENGINEER, AND SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

PRIOR TO PLACEMENT OF FINAL PAVEMENT MARKINGS, THE RESIDENT ENGINEER SHALL CONTACT THE BUREAU OF OPERATIONS AND ARRANGE FOR INSPECTION AND APPROVAL OF THE PAVEMENT MARKING LAYOUT.

RECLAIMED ASPHALT PAVEMENT (RAP) WILL NOT BE ALLOWED FOR USE AS AGGREGATE IN AGGREGATE SHOULDERS, TYPE B.

CONNECTING OF NEW OR EXISTING STORM SEWER TO NEW OR EXISTING INLETS OR MANHOLES SHALL BE MADE IN A MANNER WHICH RESULTS IN A NEAT AND WATERTIGHT JOINT. WHEN PLACED THROUGH THE WALL OF AN INLET OR MANHOLE, STORM SEWER PIPE SHALL BE PLACED OR CUT FLUSH WITH THE FACE OF THE WALL AND DRESSED WITH MORTAR TO PROVIDE A SMOOTH ROUNDED OR BEVELED EDGE. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICES OF THE STORM SEWERS OR STRUCTURES INVOLVED.

STONE RIPRAP USED IN DITCHES SHOULD BE PLACED IMMEDIATELY UPON COMPLETION OF EARTHWORK AND GRADING IN ORDER TO PREVENT EROSION.

FOR HIGHWAY STANDARD 667101-02, PERMANENT SURVEY MARKERS, CAST-IN-PLACE MARKERS ARE PREFERRED. THE CONTRACTOR HAS THE OPTION TO PURCHASE AND INSTALL PRECAST MARKERS OR TO BACKFILL MARKER WITH QUICKCRETE, COST INCIDENTAL TO THE ITEM. FINAL LOCATIONS WILL BE DETERMINED BY THE RESIDENT ENGINEER IN COORDINATION WITH THE DISTRICT 9 SURVEY UNIT.

BITUMINOUS MATERIALS (PRIME COAT) SHALL BE USED BETWEEN ALL LIFTS OF HMA FULL DEPTH PAVEMENT AT THE DISCRETION OF THE RESIDENT ENGINEER. BITUMINOUS MATERIALS (PRIME COAT) WILL NOT BE USED ON AGGREGATE BASE COURSE.

COMMITMENTS

THE STATE AGREES TO INVITE REPRESENTATIVES OF THE VILLAGE OF CRAINVILLE TO ACCOMPANY STATE PERSONNEL DURING THE FIELD INSPECTION OF THE COMPLETED PROJECT.

TREE CLEARING IS NOT ALLOWED FROM APRIL 1ST TO SEPTEMBER 30TH.

FILE NAME : c:\p\work\p\idat\lavenderba\0265445\078259-shl-gennote-03.dgn	USER NAME : *USER*	DESIGNED - CK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES AND COMMITMENTS NORTH FRONTAGE ROAD			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
CH2MHILL	PLOT SCALE : 2.0000 / 1" =	DRAWN - MP	REVISED -		SCALE:	SHEET NO. 5 OF 5 SHEETS	STA.	TO STA.	331	(1-31R-3)	WILLIAMSON	58	5
	PLOT DATE : 12/14/2012	CHECKED - DM	REVISED -						DRAWING NO.		CONTRACT NO. 78259		
		DATE - 7/6/2012	REVISED -						ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES

COUNTY:	WILLIAMSON
FUNDING:	100% STATE
LOCATION:	URBAN
ROUTE:	FAP 331 IL 13
	ROADWAY 0001

CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	ROADWAY 0001
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	190	190
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	343	343
20200100	EARTH EXCAVATION	CU YD	3180	3180
20400100	BORROW EXCAVATION	CU YD	26260	26260
20800150	TRENCH BACKFILL	CU YD	901	901
20900110	POROUS GRANULAR BACKFILL	CU YD	83	83
* 25000305	SEEDING, CLASS 3A	ACRE	4.25	4.25
* 25000350	SEEDING, CLASS 7	ACRE	3.00	3.00
* 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	384	384
* 25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	384	384
* 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	384	384
* 25100115	MULCH, METHOD 2	ACRE	4.25	4.25
* 25100630	EROSION CONTROL BLANKET	SQ YD	2749	2749
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	850	850
28000305	TEMPORARY DITCH CHECKS	FOOT	264	264
28000400	PERIMETER EROSION BARRIER	FOOT	1772	1772
28000500	INLET AND PIPE PROTECTION	EACH	21	21
28100707	STONE DUMPED RIPRAP, CLASS A4	SQ YD	78	78

* SPECIALTY ITEM

SUMMARY OF QUANTITIES

COUNTY:	WILLIAMSON
FUNDING:	100% STATE
LOCATION:	URBAN
ROUTE:	FAP 331 IL 13

CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	ROADWAY
				0001
30200650	PROCESSING MODIFIED SOIL 12"	SQ YD	8361	8361
31001500	LIME	TON	206.9	206.9
35100300	AGGREGATE BASE COURSE, TYPE A 4"	SQ YD	160	160
35100700	AGGREGATE BASE COURSE, TYPE A 8"	SQ YD	7458	7458
40200500	AGGREGATE SURFACE COURSE, TYPE A 6"	SQ YD	258	258
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	683	683
40600300	AGGREGATE (PRIME COAT)	TON	11	11
40603090	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90	TON	1035	1035
40603315	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70	TON	616	616
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	19	19
42001300	PROTECTIVE COAT	SQ YD	677	677
40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	313	313
42400300	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH	SQ FT	22363	22363
42400800	DETECTABLE WARNINGS	SQ FT	53	53
44000600	SIDEWALK REMOVAL	SQ FT	289	289
48100700	AGGREGATE SHOULDERS, TYPE A 8"	SQ YD	1707	1707
50105220	PIPE CULVERT REMOVAL	FOOT	20	20
542A1069	PIPE CULVERTS, CLASS A, TYPE 2 24"	FOOT	251	251
542A1081	PIPE CULVERTS, CLASS A, TYPE 2 36"	FOOT	91	91
542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	84	84

SUMMARY OF QUANTITIES

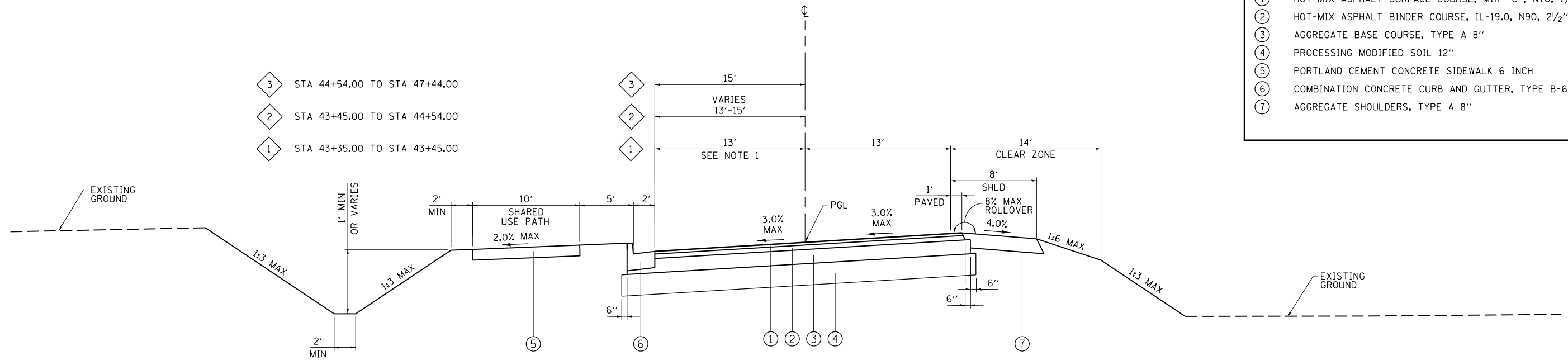
COUNTY:	WILLIAMSON
FUNDING:	100% STATE
LOCATION:	URBAN
ROUTE:	FAP 331 IL 13
	ROADWAY 0001

CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	ROADWAY 0001
54213450	END SECTIONS 15"	EACH	4	4
54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	1	1
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	6	6
54213681	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 36"	EACH	2	2
550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	FOOT	25	25
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	1192	1192
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	2314.0	2314.0
66700305	PERMANENT SURVEY MARKERS, TYPE II	EACH	3	3
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	4	4
67100100	MOBILIZATION	L SUM	1	1
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	60	60
X6024240	INLETS, SPECIAL	EACH	13	13
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1
* X7801004	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	7484	7484
* X7801012	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	135	135
Z0007601	BUILDING REMOVAL NO. 1	L SUM	1	1
Z0007602	BUILDING REMOVAL NO. 2	L SUM	1	1
Z0007603	BUILDING REMOVAL NO. 3	L SUM	1	1
Z0013798	CONSTRUCTION LAYOUT	L SUM	<del style="text-align: center;">1	<del style="text-align: center;">1
Z0022800	FENCE REMOVAL	FOOT	409	409
+ Z0076604	TRAINEES, TRAINING PROGRAM GRADUATE	HOURL	1,000	1,000

20
* SPECIALTY ITEM
+ 0042

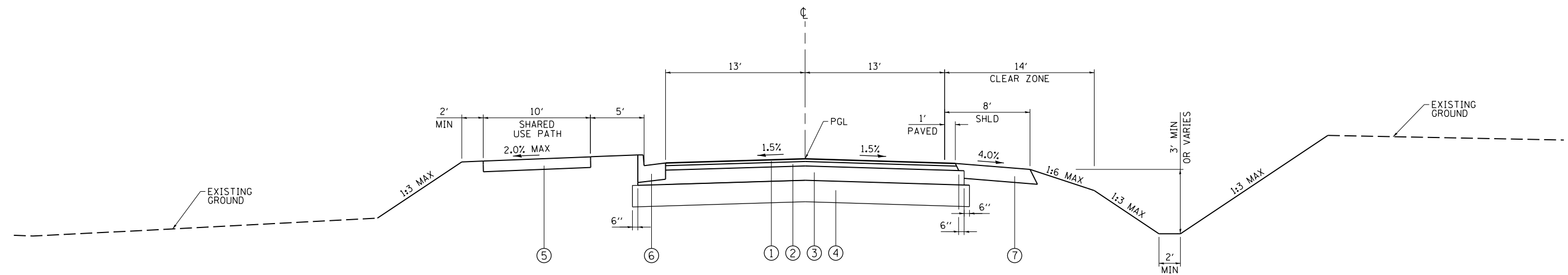
LEGEND

- ① HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70, 1 1/2"
- ② HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 2 1/2"
- ③ AGGREGATE BASE COURSE, TYPE A 8"
- ④ PROCESSING MODIFIED SOIL 12"
- ⑤ PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH
- ⑥ COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- ⑦ AGGREGATE SHOULDERS, TYPE A 8"



SUPERELEVATED SECTION

STA 43+35.00 TO STA 47+44.00



NORTH FRONTAGE ROAD

STA 28+01.14 TO STA 43+35.00

NOTES:

1. WIDTH VARIES AT HORIZONTAL CURVES TO ACCOMMODATE WB-65 DESIGN VEHICLE OFF-TRACKING.
2. FOR PAVEMENT MIX DESIGN, SEE MIX DESIGN TABLE ON DRAWING GE-04.

FILE NAME =	USER NAME = \$USER\$	DESIGNED - CK	REVISED -
et:\pwork\pwork\colemm\d0265445\0978259-sh-typical-01.dgn		DRAWN - MP	REVISED -
CH2MHILL	PLOT SCALE = 10.0000' / in.	CHECKED - DM	REVISED -
	PLOT DATE = 2/22/2013	DATE - 7/6/2012	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS NORTH FRONTAGE ROAD	
SCALE: NA	SHEET NO. 1 OF 2 SHEETS
STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
331	(1-3)R-3	WILLIAMSON	58	9
DRAWING NO.		CONTRACT NO. 78259		
ILLINOIS FED. AID PROJECT				

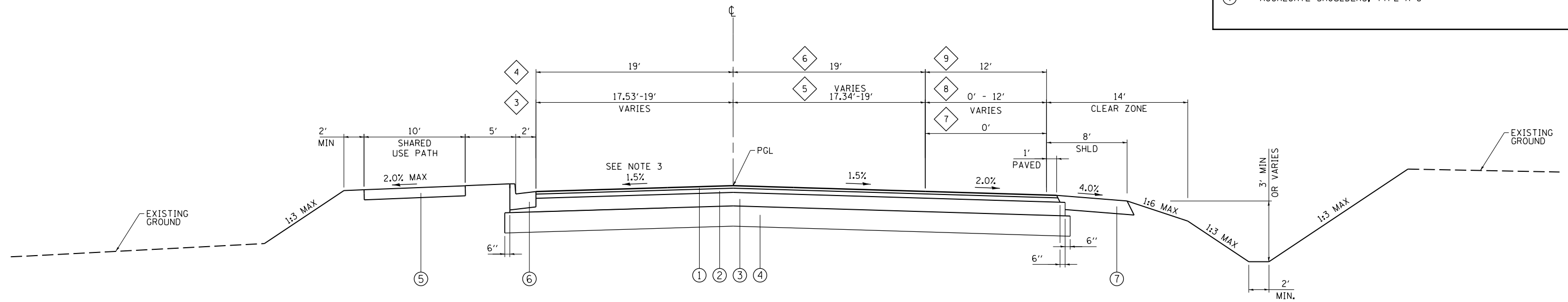
LEGEND

- ① HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70, 1 1/2"
- ② HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 2 1/2"
- ③ AGGREGATE BASE COURSE, TYPE A 8"
- ④ PROCESSING MODIFIED SOIL 12"
- ⑤ PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH
- ⑥ COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- ⑦ AGGREGATE SHOULDERS, TYPE A 8"

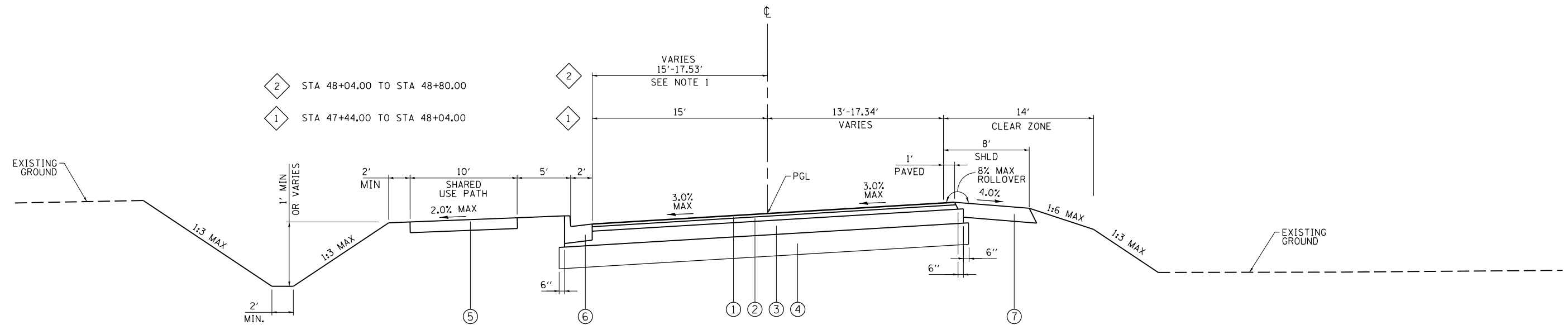
- ④ STA 49+24.00 TO STA 50+75.00
- ③ STA 48+80.0 TO STA 49+24.00

- ⑥ STA 49+24.00 TO STA 50+75.00
- ⑤ STA 48+80.00 TO STA 49+24.00

- ⑨ STA 50+59.00 TO STA 50+75.00
- ⑧ STA 49+24.00 TO STA 50+59.00
- ⑦ STA 48+80.00 TO STA 49+24.00



NORTH FRONTAGE ROAD
STA 48+80.00 TO STA 50+75.00



SUPERELEVATED SECTION
STA 47+44.00 TO STA 48+80.00

NOTES:

1. WIDTH VARIES AT HORIZONTAL CURVES TO ACCOMMODATE WB-65 DESIGN VEHICLE OFF-TRACKING.
2. FOR PAVEMENT MIX DESIGN, SEE MIX DESIGN TABLE ON DRAWING GE-04.
3. FOR ADDITIONAL INFORMATION, SEE DRAWING SE-01.

FILE NAME =	USER NAME = \$USER\$	DESIGNED - CK	REVISED -
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	PLOT DATE = 2/22/2013	DATE - 7/6/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS	
NORTH FRONTAGE ROAD	
SCALE: NA	SHEET NO. 2 OF 2 SHEETS
STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
331	(1-3)R-3	WILLIAMSON	58	10
DRAWING NO.		CONTRACT NO. 78259		
ILLINOIS FED. AID PROJECT				

PAVEMENT AND SHOULDERS

LOCATION			HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90	PROCESSING MODIFIED SOIL 12"	LIME	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH •	AGGREGATE BASE COURSE, TYPE A 8"	AGGREGATE SHOULDERS, TYPE A 8"	BITUMINOUS MATERIALS (PRIME COAT)	AGGREGATE (PRIME COAT)	REMARKS
STATION	TO	STATION	TON	TON	SO YD	TON	SO FT	SO YD	SO YD	GAL	TON	
28+01.14	-	50+75.00					22,221					SHARED USE PATH ROADWAY
28+01.14	-	50+75.00	616	1,035	8,361	206.9		7,458	1,707	683	11	
PROJECT TOTALS			616	1,035	8,361	206.9	22,221	7,458	1,707	683	11	

• FOR ADDITIONAL QUANTITIES, DRIVEWAYS AND ENTRANCES SCHEDULE.

EARTHWORK

LOCATION			EARTH EXCAVATION	SHRINKAGE FACTOR	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	EMBANKMENT	EXCESS EXCAVATION	UNDERCUT	EXCAVATION REQUIRED TO COMPLETE	BORROW EXCAVATION**	REMARKS
STATION	TO	STATION	CU YD		CU YD	CU YD	CU YD	CU YD	CU YD	CU YD	
28+01.14	-	50+75.00	2,740	30%	1,930	25,340		1,160	22,250	26,260	
TEMPORARY DITCH (POB)			440	25%	330		330				
TEMPORARY TIE-IN (POE)						260			260		260 CU YD FROM TEMP DITCH POB
PROJECT TOTALS			3,180							26,260	

** A SWELL FACTOR OF 1.18 WAS USED TO CALCULATE BORROW EXCAVATION.

DRIVEWAYS AND ENTRANCES

LOCATION	ENTR. TYPE	EXISTING SURFACE TYPE	PROPOSED SURFACE TYPE	PROP. AREA (HMA)	PROPOSED AREA (AGGREGATE)	LEFT RADIUS CENTER POINT			RIGHT RADIUS CENTER POINT			WIDTH AT RADIUS RETURN	LENGTH	INCIDENTAL HOT-MIX ASPHALT SURFACING 2"	AGGREGATE BASE COURSE, TYPE A 4"	AGGREGATE SURFACE COURSE, TYPE A 6"	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH•	DETECTABLE WARNINGS	PROTECTIVE COAT ***	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24***	
						RADIUS	STA	OFFSET	RADIUS	STA	OFFSET										
STATION				SO FT	SO FT	FOOT			FOOT			FOOT	FOOT	TON	SO YD	SO YD	SO FT	SO FT	SO YD	FOOT	
31+11.72	RT	CE	N/A	BIT/AGG	859	2,318	20	31+48.78	34.00	20	30+74.67	34.00	35	85	11	96	258				
33+83.91	RT	FE	N/A	BIT/EARTH	239		15	34+10.17	29.00	15	33+58.17	29.00	22	29	3	27					
33+83.91	LT	FE	N/A	BIT/EARTH	328		15	33+57.63	30.00	15	34+09.63	30.00	22	38	5	37	142	53	27	47.0	
PROJECT TOTALS															19	160	258	142	53	27	47.0

• FOR ADDITIONAL QUANTITIES, SEE PAVEMENT AND SHOULDERS SCHEDULE.
 *** FOR ADDITIONAL QUANTITIES, SEE CURB AND GUTTER SCHEDULE, DRAWING SCH-02.

DRAINAGE STRUCTURES

LOCATION			STORM SEWERS, CLASS A,		INLETS, SPECIAL EACH	TRENCH BACKFILL CU YD	POROUS GRANULAR BACKFILL CU YD	INLET AND PIPE PROTECTION EACH	END SECTIONS 15" EACH	PRECAST REINFORCED CONCRETE FLARED END SECTIONS			PIPE CULVERTS,			REMARKS
			TYPE 1	TYPE 2						CLASS A,			CLASS D,			
			15" FOOT	12" FOOT						15" EACH	24" EACH	36" EACH	TYPE 2 24" FOOT	TYPE 2 36" FOOT	TYPE 1 15" FOOT	
STORM SEWER																
27+54.00	LT							1							EX INLET	
28+20.00	-	OUTLET	25						1							
28+20.00					1			1								
28+20.00	-	34+30.00		591		384										
30+25.00					1			1								
32+25.00					1			1								
34+30.00					1			1								
36+37.05					1			1								
36+37.05	-	39+00.00		251		253										
37+50.00					1			1								
39+00.00					1			1								
40+82.56					1			1								
40+82.56	-	42+00.00		112		89										
42+00.00					1			1								
43+46.17					1			1								
43+46.17	-	46+00.00		238		175	10									
44+55.07					1			1								
46+00.00					1			1								
48+11.94					1			1								
CULVERTS																
30+60.00	RT							1							EX 12" STEEL	
31+11.72	CER							1	2					50		
33+83.91	FER							1	2					34		
36+37.43	LT	OF INLET						1			1		32			
36+37.43	RT	OF INLET				35		1			1		59			
40+82.56	LT	OF INLET						1			1		23			
40+82.56	RT	OF INLET				7		1			1		50			
43+46.17	LT	OF INLET						1			1		21			
43+46.17	RT	OF INLET				6		1			1		51			
47+99.53	LT	OF INLET						1			1		36			
47+99.53	RT	OF INLET				25		1			1		70			
PROJECT TOTALS			25	1,192	13	901	83	21	4	1	6	2	251	91	84	

RIPRAP

LOCATION		STONE DUMPED RIPRAP, CLASS A4		REMARKS
STATION		SO	YD	
28+00.00	LT	6		FOR ENERGY DISSIPATOR DETAILS, SEE DRAWING DD-01.
36+37.43	RT	30		
40+82.56	RT	14		
43+46.17	RT	14		
47+66.39	RT	14		
PROJECT TOTALS		78		

CURB AND GUTTER

LOCATION			COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 •	PROTECTIVE COAT •	REMARKS
STATION	TO	STATION			
28+01.14	-	50+75.00	2,267.0	650	
PROJECT TOTALS			2,267.0	650	

• FOR ADDITIONAL QUANTITIES, SEE DRIVEWAYS AND ENTRANCES SCHEDULE, DRAWING SCH-01.

EROSION CONTROL

LOCATION				EROSION CONTROL BLANKET SO YD	TEMPORARY DITCH CHECKS FOOT	PERIMETER EROSION BARRIER FOOT	REMARKS
STATION	TO	STATION					
27+41	-	28+01	LT/RT	168	24		FOR TEMPORARY DITCH
28+01	-	30+85	RT	279	16		TYPICAL WIDTH OF EROSION CONTROL BLANKET IS 8'. TYPICAL DIMENSIONS OF DITCH CHECKS ARE 8' IN WIDTH.
28+01	-	33+64	LT	495	32		
31+44	-	33+65	RT	199	16		
34+02	-	35+00	RT	80	8		
34+04	-	36+33	LT	209	16		
35+00	-	36+26	RT			126	
36+38	-	40+80	LT	396	40		
36+51	-	40+73	RT			418	
40+86	-	43+43	LT	229	32		
40+93	-	43+36	RT			243	
43+49	-	48+32	LT	409	48		
43+56	-	47+50	RT			413	
47+78	-	50+75	RT			297	
48+39	-	50+75	LT	210	32		
50+75	-	51+91	LT/RT	75		275	FOR TEMPORARY TIE-IN
PROJECT TOTALS				2,749	264	1,772	

PAVEMENT MARKINGS

LOCATION			WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING -			RAISED REFLECTIVE PAVEMENT MARKER EACH	REMARKS
			LINE 4" WHITE FOOT	LINE 4" YELLOW FOOT	LINE 12" YELLOW FOOT		
STATION	TO	STATION					
CENTER							
28+01.14	-	47+43.93		3,886		40	DOUBLE CENTERLINE
47+43.93	-	50+59.03		1,260		16	MEDIAN CHANNELIZATION AND TURN LANE TRANSVERSE LINE
47+43.93	-	50+59.03			135		DOUBLE CENTERLINE
50+59.03	-	50+75.00		32		2	
RIGHT SIDE							
28+01.14	-	50+75.00	2,274				EDGE LINE
50+59.03	-	50+75.00	16			1	TURN LANE
50+59.03	-	50+75.00	16			1	TURN LANE
SUB TOTALS			2,306	5,178			
PROJECT TOTALS			7,484		135	60	

SEEDING AND LANDSCAPING

LOCATION				SEEDING, CLASS 3A ACRE	SEEDING, CLASS 7 ACRE	NITROGEN FERTILIZER NUTRIENT POUND	PHOSPHORUS FERTILIZER NUTRIENT POUND	POTASSIUM FERTILIZER NUTRIENT POUND	MULCH, METHOD 2 ACRE	TEMPORARY EROSION CONTROL SEEDING POUND	REMARKS
STATION	TO	STATION									
27+39	-	33+73	LT	0.75	0.50	68	68	68	0.75	150	
27+39	-	31+29	RT	0.50	0.25	45	45	45	0.50	100	
31+29	-	33+73	RT	0.25	0.25	23	23	23	0.25	50	
33+95	-	51+69	LT	1.50	1.00	135	135	135	1.50	300	
33+95	-	51+94	RT	1.25	1.00	113	113	113	1.25	250	
PROJECT TOTALS				4.25	3.00	384	384	384	4.25	850	

PERMANENT MARKERS

LOCATION			PERMANENT SURVEY MARKERS, TYPE II EACH	REMARKS
POINT		STATION		
TO BE DETERMINED			3	LOCATION TO BE DETERMINED BY RESIDENT ENGINEER
PROJECT TOTALS			3	

REMOVAL ITEMS

LOCATION			OFFSET FROM CENTERLINE FEET	TREE REMOVAL		SIDEWALK REMOVAL SQ FT	PIPE CULVERT REMOVAL FOOT	FENCE REMOVAL FOOT	BUILDING REMOVAL NO. 1 LSUM	BUILDING REMOVAL NO. 2 LSUM	BUILDING REMOVAL NO. 3 LSUM	REMARKS	
STATION	TO	STATION		(6 TO 15 UNITS DIAMETER) UNIT	(OVER 15 UNITS DIAMETER) UNIT								
27+47	LT	TO 31+64	LT	85				409					
27+78	LT			32									
27+95	RT	TO 28+28	RT	28		174							
28+00	CL	TO 29+10	CL	0					1				
28+32	RT			27	12								
28+52	LT			70		34							
28+88	LT			41	6								
28+89	LT			41	8								
28+90	LT			41	12								
28+91	LT			41	9								
29+62	RT			36	6								
29+64	RT			39	6								
30+07	LT			37		20							
30+09	LT			64		18							
30+27	LT	TO 30+72	LT	47						1			
30+28	RT			39		25							
30+42	RT			32	11								
30+64	RT			8	13								
30+65	LT			27		16							
30+70	RT			29	13								
30+76	RT			29	11								
30+80	LT	TO 31+37	LT	45							1		
30+84	LT	TO 31+03	LT	78		115							
30+89	RT			31	13								
31+01	RT			31	14								
31+04	RT			80		23							
31+11	RT			34		18							
31+26	RT	TO 31+46	RT	44			20						
31+29	RT			25	6								
31+64	LT			5		18							
31+72	LT			27		27							
33+73	RT			33		24							
35+91	LT			63		26							
35+97	LT			46		18							
35+98	LT			30		17							
36+10	LT			55	13								
36+22	LT			46		21							
36+23	LT			46	10								
36+23	RT			31		21							
36+26	LT			23	7								
36+36	RT			25	14								
36+59	RT			20	6								
PROJECT TOTALS					190	343	289	20	409	1	1	1	

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	PLOT SCALE = 2.0000' / in.	CHECKED - DM	REVISED -
	PLOT DATE = 12/14/2012	DATE - 7/6/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

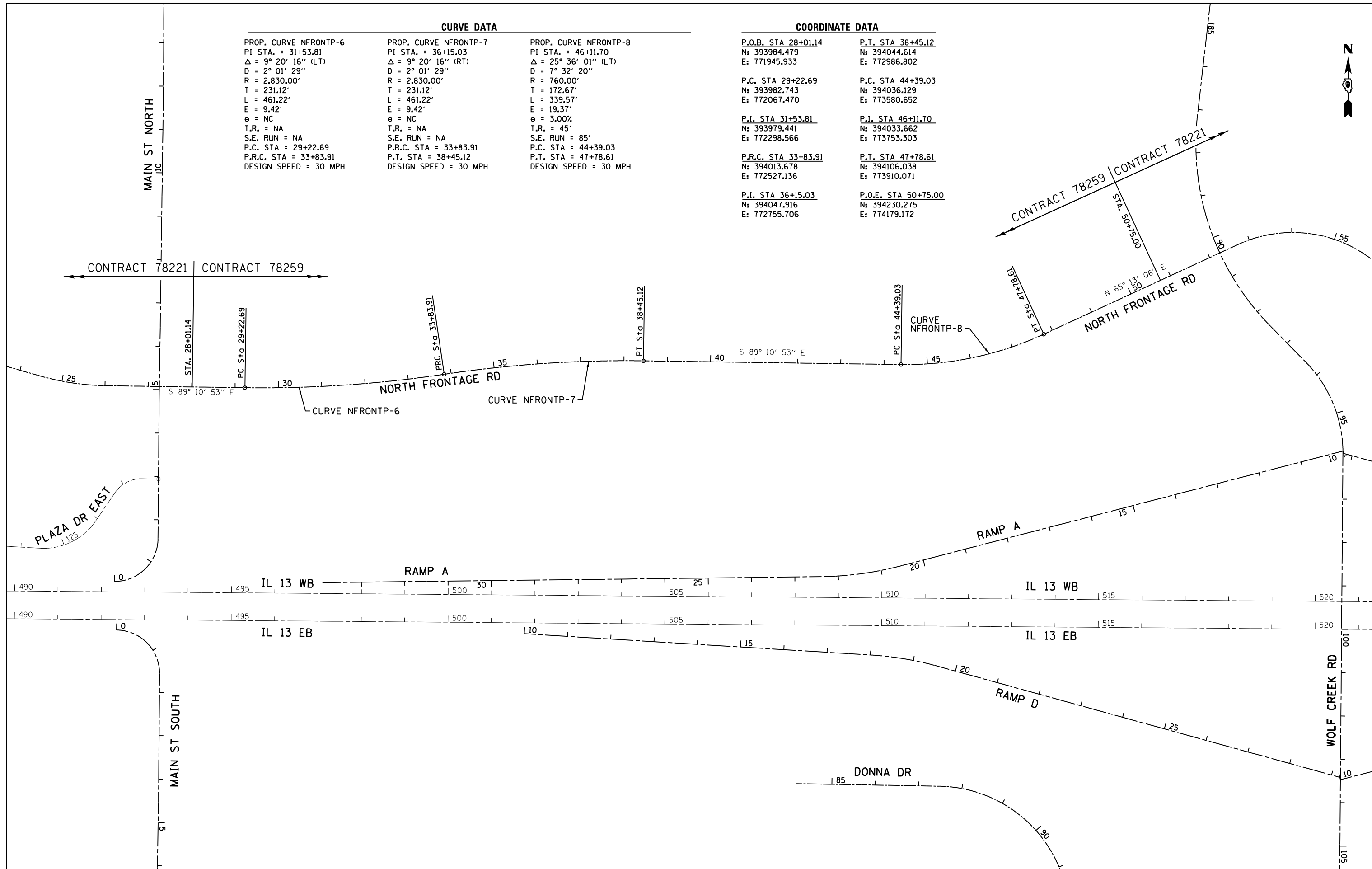
SCHEDULE OF QUANTITIES
NORTH FRONTAGE ROAD

SCALE: SHEET NO. 4 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
331	(1-3)R-3	WILLIAMSON	58	14
DRAWING NO.		CONTRACT NO. 78259		
ILLINOIS FED. AID PROJECT				

CURVE DATA		
PROP. CURVE NFRONTP-6 PI STA. = 31+53.81 Δ = 9° 20' 16" (LT) D = 2° 01' 29" R = 2,830.00' T = 231.12' L = 461.22' E = 9.42' e = NC T.R. = NA S.E. RUN = NA P.C. STA = 29+22.69 P.R.C. STA = 33+83.91 DESIGN SPEED = 30 MPH	PROP. CURVE NFRONTP-7 PI STA. = 36+15.03 Δ = 9° 20' 16" (RT) D = 2° 01' 29" R = 2,830.00' T = 231.12' L = 461.22' E = 9.42' e = NC T.R. = NA S.E. RUN = NA P.R.C. STA = 33+83.91 P.T. STA = 38+45.12 DESIGN SPEED = 30 MPH	PROP. CURVE NFRONTP-8 PI STA. = 46+11.70 Δ = 25° 36' 01" (LT) D = 7° 32' 20" R = 760.00' T = 172.67' L = 339.57' E = 19.37' e = 3.00% T.R. = 45' S.E. RUN = 85' P.C. STA = 44+39.03 P.T. STA = 47+78.61 DESIGN SPEED = 30 MPH

COORDINATE DATA	
P.O.B. STA 28+01.14 N: 393984.479 E: 771945.933	P.T. STA 38+45.12 N: 394044.614 E: 772986.802
P.C. STA 29+22.69 N: 393982.743 E: 772067.470	P.C. STA 44+39.03 N: 394036.129 E: 773580.652
P.I. STA 31+53.81 N: 393979.441 E: 772298.566	P.I. STA 46+11.70 N: 394033.662 E: 773753.303
P.R.C. STA 33+83.91 N: 394013.678 E: 772527.136	P.T. STA 47+78.61 N: 394106.038 E: 773910.071
P.I. STA 36+15.03 N: 394047.916 E: 772755.706	P.O.E. STA 50+75.00 N: 394230.275 E: 774179.172



FILE NAME =	USER NAME = \$USER\$	DESIGNED - CK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ALIGNMENT, TIES AND BENCHMARKS NORTH FRONTAGE ROAD	F.A.P. RTE. = 331	SECTION = (1-3)R-3	COUNTY = WILLIAMSON	TOTAL SHEETS = 58	SHEET NO. = 15	
CH2MHILL	PLOT SCALE = 200.0000' / in.	CHECKED - DM	REVISED -			SCALE:	SHEET NO. 1 OF 5 SHEETS	STA. 28+01.14 TO STA. 50+75.00	DRAWING NO. = CONTRACT NO. 78259		
	PLOT DATE = 12/14/2012	DATE = 7/6/2012	REVISED -			ILLINOIS FED. AID PROJECT					

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT 9
SURVEY CONTROL POINTS FOR ILLINOIS ROUTE 13
CARBONDALE TO MARION
8/12/2004

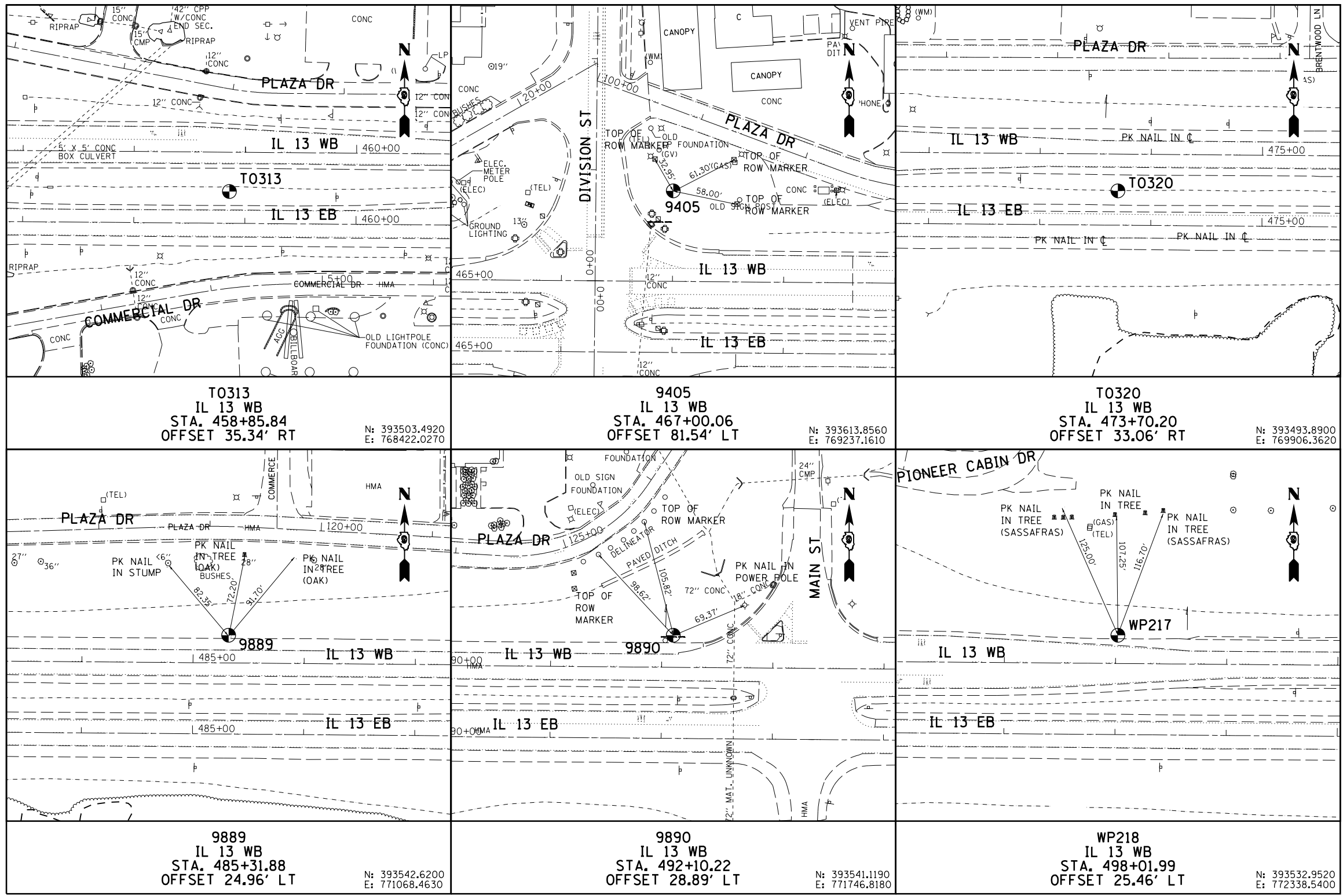
POINT	NORTHING	EASTING	ELEVATION	ALIGNMENT	STATION	OFFSET
PT T0313	N 393503.4920	E 768422.0270	Z 423.4880	IL 13 WB	STA=458+85.84	OFF=35.3395
PT 9405	N 393613.8560	E 769237.1610	Z 442.3550	IL 13 WB	STA=467+00.06	OFF=-81.5430
PT T0320	N 393493.8900	E 769906.3620	Z 444.5460	IL 13 WB	STA=473+70.20	OFF=33.0648
PT 9889	N 393542.6200	E 771068.4630	Z 449.8570	IL 13 WB	STA=485+31.88	OFF=-24.9618
PT 9890	N 393541.1190	E 771746.8180	Z 448.1490	IL 13 WB	STA=492+10.22	OFF=-28.8885
PT WP218	N 393532.9520	E 772338.5400	Z 447.6910	IL 13 WB	STA=498+01.99	OFF=-25.4562
PT WP217	N 393524.7030	E 773528.7860	Z 449.0750	IL 13 WB	STA=509+92.27	OFF=-26.6292
PT T0328	N 393450.6410	E 774688.4320	Z 454.4670	IL 13 WB	STA=521+52.46	OFF=38.3919
PT WP216	N 393503.9060	E 776235.0160	Z 464.5640	IL 13 WB	STA=536+98.58	OFF=-26.9261
PT WP215	N 393493.1820	E 777667.3460	Z 465.4860	IL 13 WB	STA=551+30.95	OFF=-27.3665
PT T0332	N 393420.1980	E 778644.6240	Z 460.0780	IL 13 WB	STA=561+08.77	OFF=37.9980
PT WP214	N 393473.3200	E 780134.9860	Z 450.9010	IL 13 WB	STA=575+98.70	OFF=-26.4740
PT WP213	N 393474.5900	E 781235.1420	Z 451.9320	IL 13 WB	STA=586+98.83	OFF=-34.8359
PT QP3008	N 393387.6930	E 783921.0240	Z 449.3930	IL 13 WB	STA=613+85.22	OFF=34.7453

NOTE: OFFSETS ARE MEASURED FROM THE CENTERLINE OF ROUTE 13 WESTBOUND

PLEASE NOTE: HORIZONTAL COORDINATE VALUES: ILLINOIS STATE PLANE -EAST ZONE
HORIZONTAL DATUM: NAD 83 (1997 ADJUSTMENT)
REFERENCED ELLIPSOID: WGS 1984; GEOIDE: GEOID96
VERTICAL DATUM: NAVD 1988

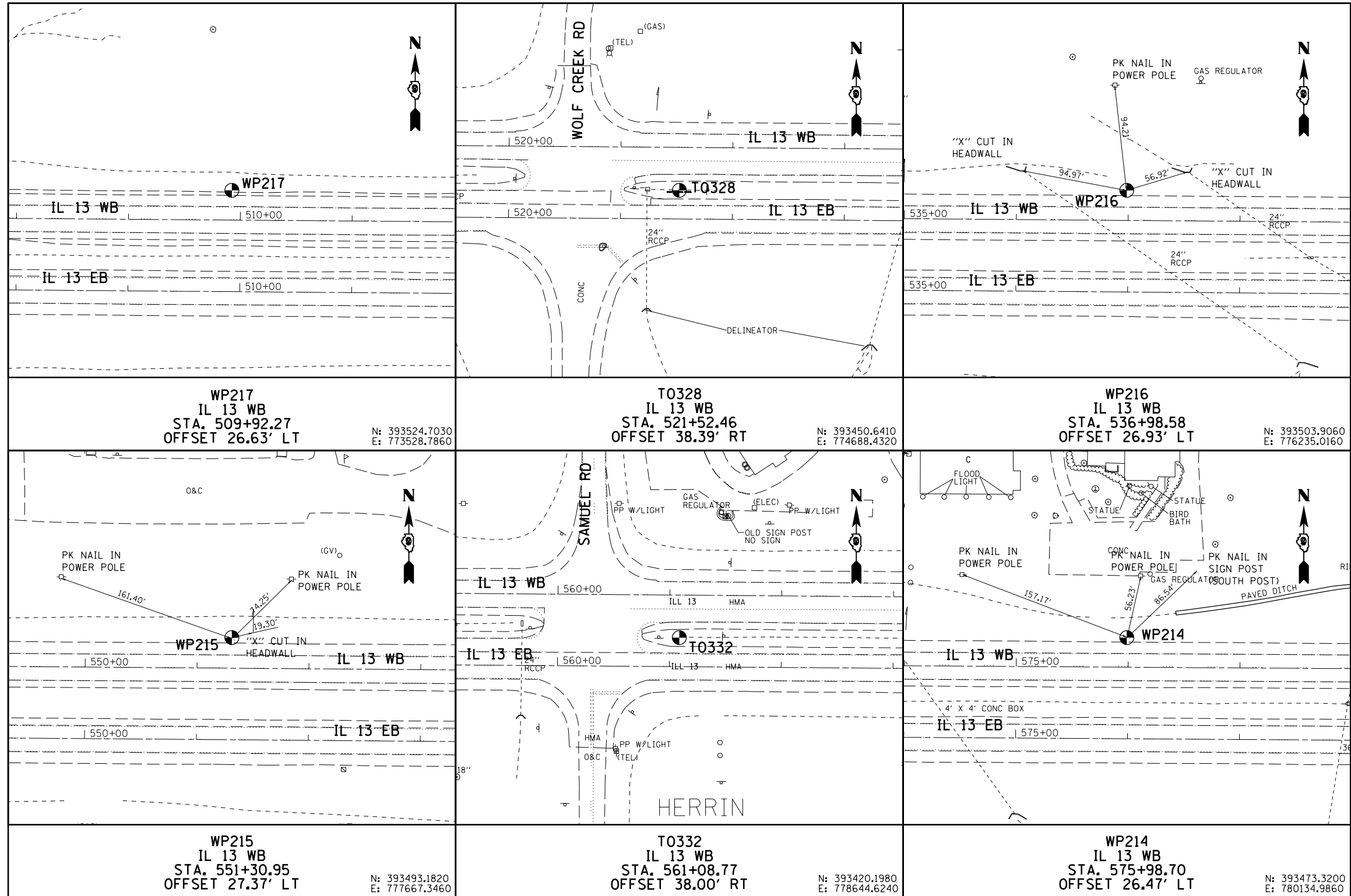
ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT 9
VERTICAL CONTROL FOR ILLINOIS ROUTE 13
DIVISION STREET TO IL 148
9/9/2004
1988 NAVD

BENCHMARK	ELEVATION	DESCRIPTION
BM10	440.60	CUT SQUARE ON THE SE CORNER OF THE FOUNDATION OF AN ABOVE GROUND SIGNAL CONTROL BOX IN THE NW QUADRANT OF RTE 13 WBL AND DIVISION ST, AT CARTERVILLE 69.05' LEFT OF THE CL OF RTE 13 WBL @ STA.465+73.58
BM11	443.04	CUT SQUARE ON THE TOP CENTER OF THE NORTH HEADWALL OF AN ACROSS ROAD CULVERT, 57.05' LEFT OF THE CL OF RTE 13 WBL @ STA.488+08.33
BM12	445.70	CUT SQUARE ON THE TOP OF THE SOUTH HEADWALL OF A 24" ACROSS ROAD CULVERT, IN THE SW QUADRANT OF RTE 13 EBL AND NORTH WOLF CREEK ROAD, 132.11' RIGHT OF THE CL OF RTE 13 WBL STA.519+39.87
BM13	462.77	CUT SQUARE ON THE TOP OF THE SOUTH HEADWALL OF AN ACROSS ROAD CULVERT, 107.79' RIGHT OF THE CL OF RTE 13 WBL @ STA. 547+28.49
BM14	444.68	CUT SQUARE ON THE TOP OF THE SOUTH HEADWALL OF AN ACROSS ROAD CULVERT, 145.90' RIGHT OF THE CL OF RTE 13 WBL @ STA. 572+12.64
BM15	449.12	CUT SQUARE ON THE TOP OF THE SOUTH HEADWALL OF AN ACROSS ROAD CULVERT, 107.17' RIGHT OF THE CL OF RTE 13 WBL @ STA. 602+31.52



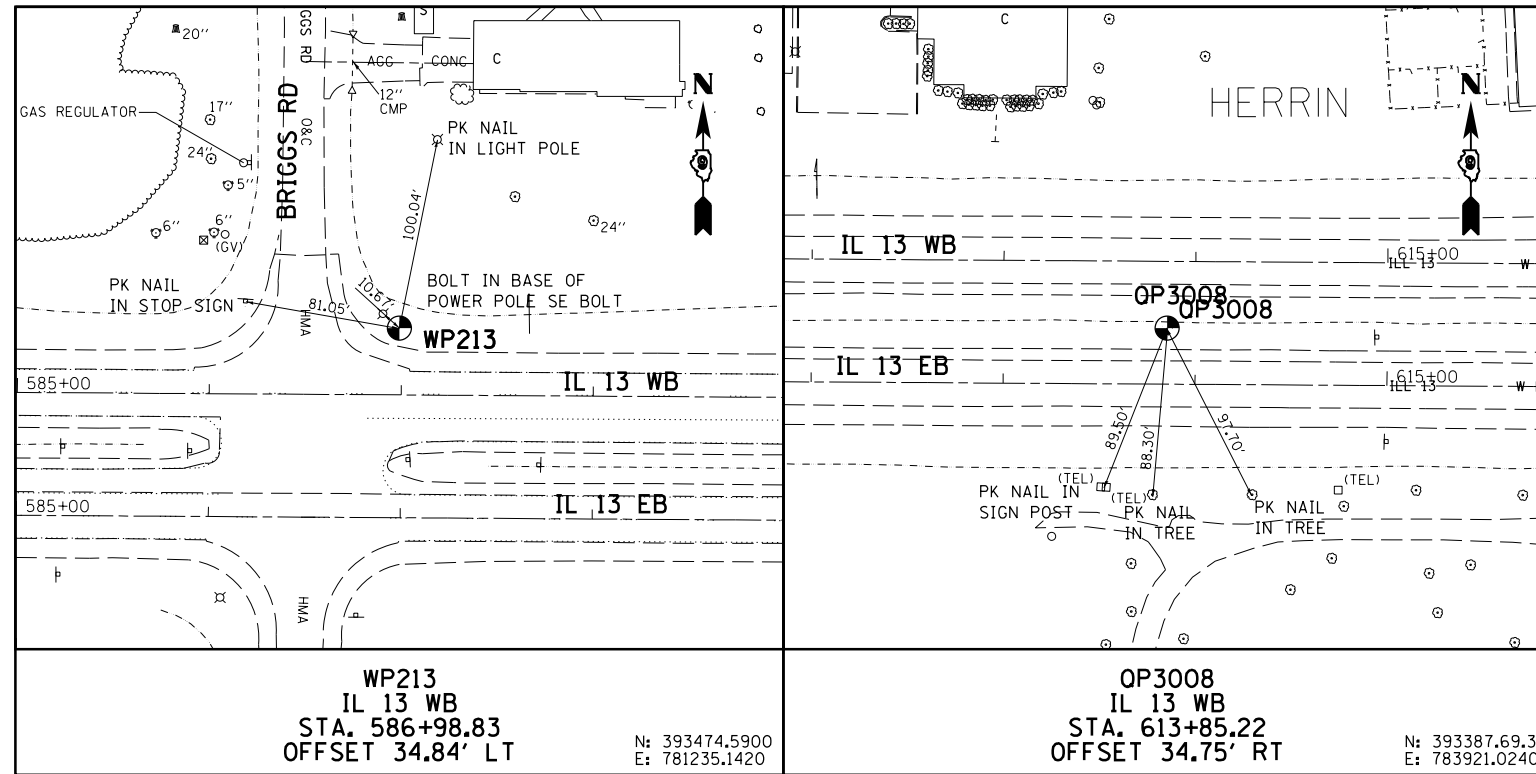
NOTES:
 1. FOR INFORMATION ON PERMANENT SURVEY MARKER DETAILS, SEE DRAWING GE-05 AND DD-02.

FILE NAME = c:\pw\work\p1dot\lavenderba\0265445\078259-sht-ATB-03.dgn CH2MHILL	USER NAME = \$USER\$	DESIGNED - CK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ALIGNMENT, TIES AND BENCHMARKS NORTH FRONTAGE ROAD		F.A.P. RTE. 331	SECTION (1-3)R-3	COUNTY WILLIAMSON	TOTAL SHEETS 58	SHEET NO. 17
	PLOT SCALE = 100.0000' / in.	CHECKED - DM	DATE - 7/6/2012		REVISED -	SCALE:	SHEET NO. 3 OF 5 SHEETS	STA. TO STA.	DRAWING NO. CONTRACT NO. 78259		ILLINOIS FED. AID PROJECT



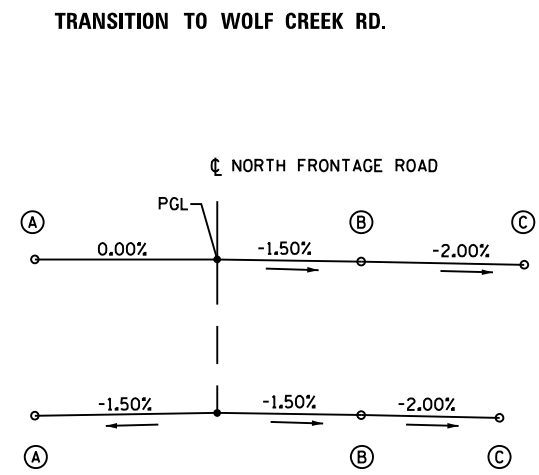
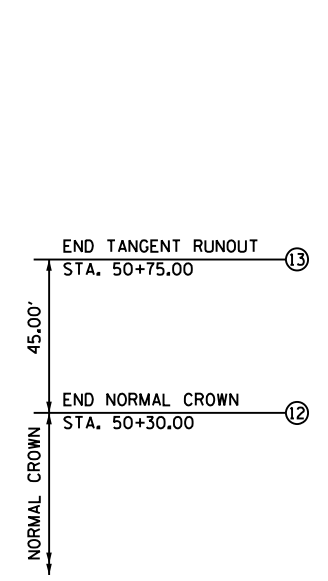
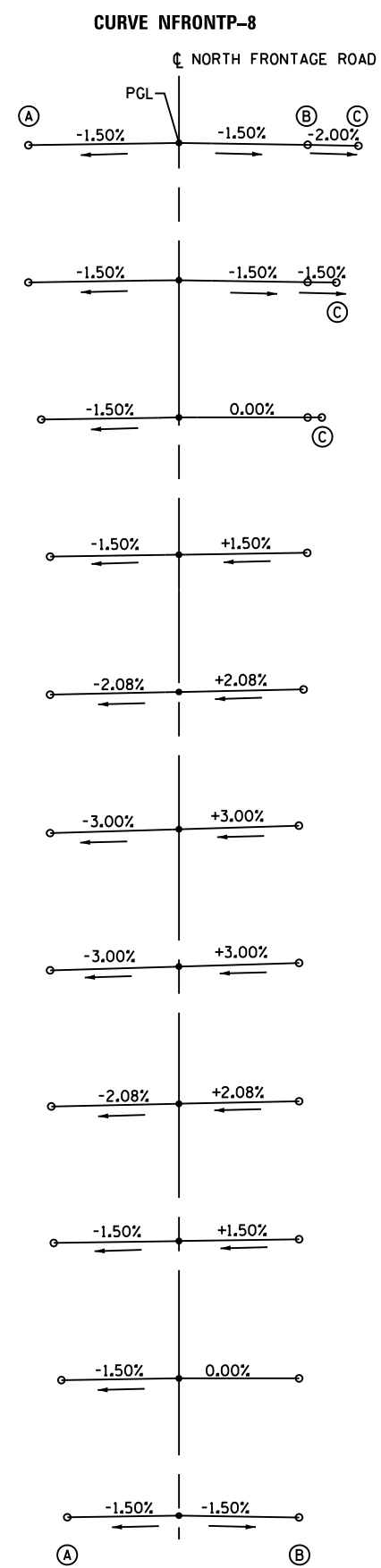
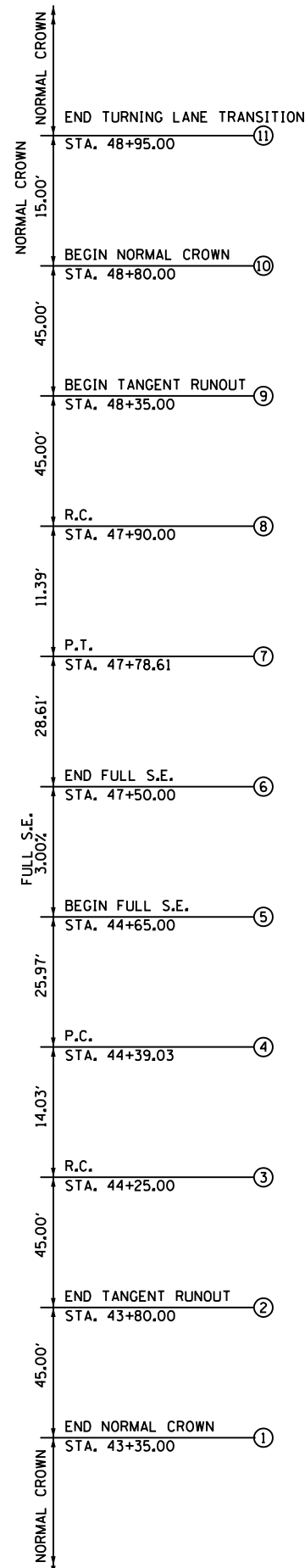
NOTES:
 1. FOR INFORMATION ON PERMANENT SURVEY MARKER DETAILS, SEE DRAWING GE-05 AND DD-02.

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	CH2MHILL	DRAWN - MP	REVISED -		SCALE:	SHEET NO. 4 OF 5 SHEETS	STA. TO STA.	331	(1-3)R-3	WILLIAMSON	58
	PLOT SCALE = 100.0000' / 1".	CHECKED - DM	REVISED -				DRAWING NO.		CONTRACT NO. 78259		
	PLOT DATE = 12/14/2012	DATE - 7/6/2012	REVISED -				ILLINOIS FED. AID PROJECT				



NOTES:
 1. FOR INFORMATION ON PERMANENT SURVEY MARKER DETAILS, SEE DRAWING GE-05 AND DD-02.

FILE NAME =	USER NAME = \$USER\$	DESIGNED - CK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ALIGNMENT, TIES AND BENCHMARKS NORTH FRONTAGE ROAD	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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CH2MHILL	PLOT SCALE = 100.0000' / in.	CHECKED - DM	REVISED -			DRAWING NO.		CONTRACT NO. 78259		ILLINOIS FED. AID PROJECT	
	PLOT DATE = 12/14/2012	DATE - 7/6/2012	REVISED -			SCALE:	SHEET NO. 5 OF 5 SHEETS	STA.	TO STA.		



PROFILE GRADE ELEVATIONS							
SECTION	CL ELEV. & PGL	A		B		C	
		ELEVATION	OFFSET FROM CL	ELEVATION	OFFSET FROM CL	ELEVATION	OFFSET FROM CL
①	459.80	459.61	13.00'	459.59	14.00'		
②	460.19	459.99	13.62'	460.19	14.00'		
③	460.58	460.36	14.58'	460.79	14.00'		
④	460.71	460.40	14.86'	461.00	14.00'		
⑤	460.99	460.54	15.00'	461.41	14.00'		
⑥	466.45	466.00	15.00'	466.87	14.00'		
⑦	467.04	466.73	15.00'	467.34	14.51'		
⑧	467.28	467.06	15.00'	467.50	14.94'		
⑨	468.22	467.98	16.03'	468.22	15.00'	468.22	16.64'
⑩	469.16	468.90	17.53'	468.94	15.00'	468.88	18.73'
⑪	469.47	471.45	19.00'	469.27	15.00'	469.15	20.91'
⑫	471.73	471.45	19.00'	471.51	15.00'	471.22	29.42'
⑬	472.08	472.08	19.00'	471.86	15.00'	471.52	32.00'

NOTES:
1. FOR CURVE DATA, SEE DRAWING ATB-01.

FILE NAME =	USER NAME = \$USER\$	DESIGNED - CK	REVISED -
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	PLOT DATE = 12/14/2012	DATE - 7/6/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERELEVATION DETAIL
NORTH FRONTAGE ROAD
SCALE: SHEET NO. 1 OF 1 SHEETS STA. 43+35.00 TO STA. 48+95.00

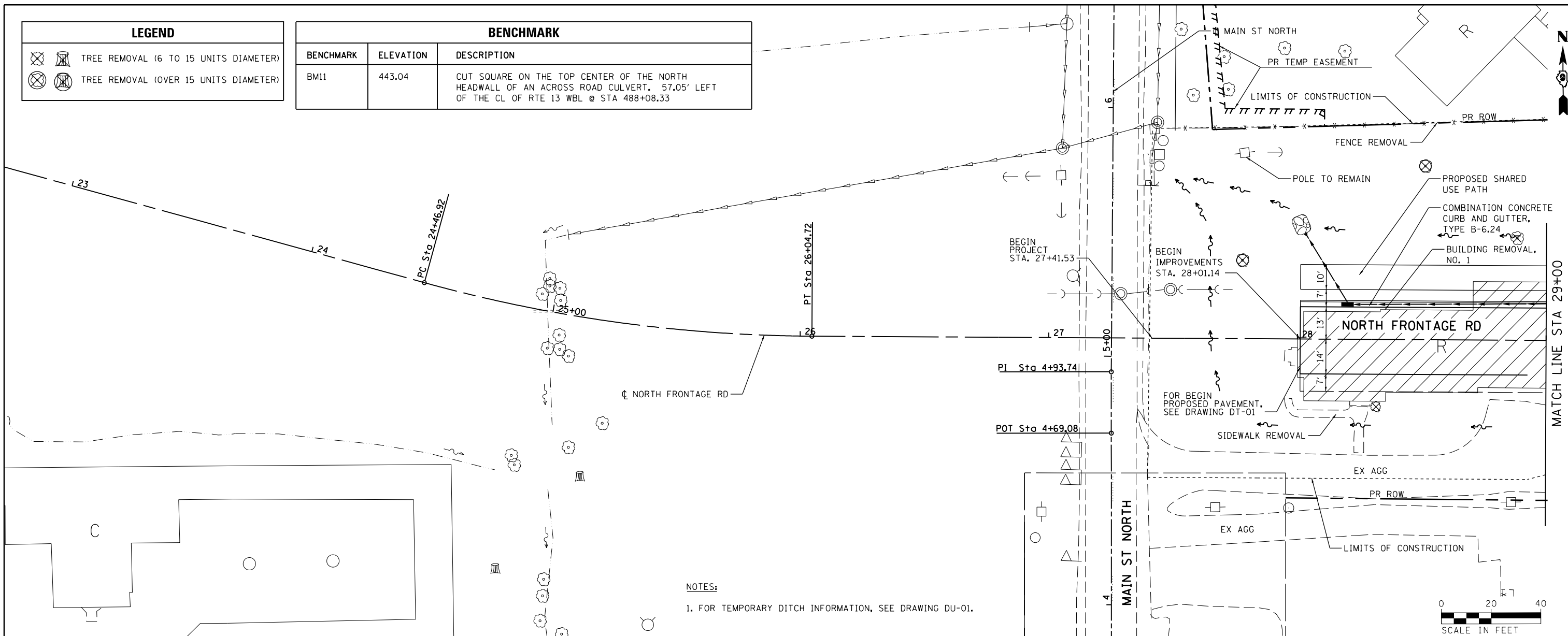
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
331	(1-3)R-3	WILLIAMSON	58	20
DRAWING NO.		CONTRACT NO. 78259		
ILLINOIS FED. AID PROJECT				

LEGEND	
	TREE REMOVAL (6 TO 15 UNITS DIAMETER)
	TREE REMOVAL (OVER 15 UNITS DIAMETER)

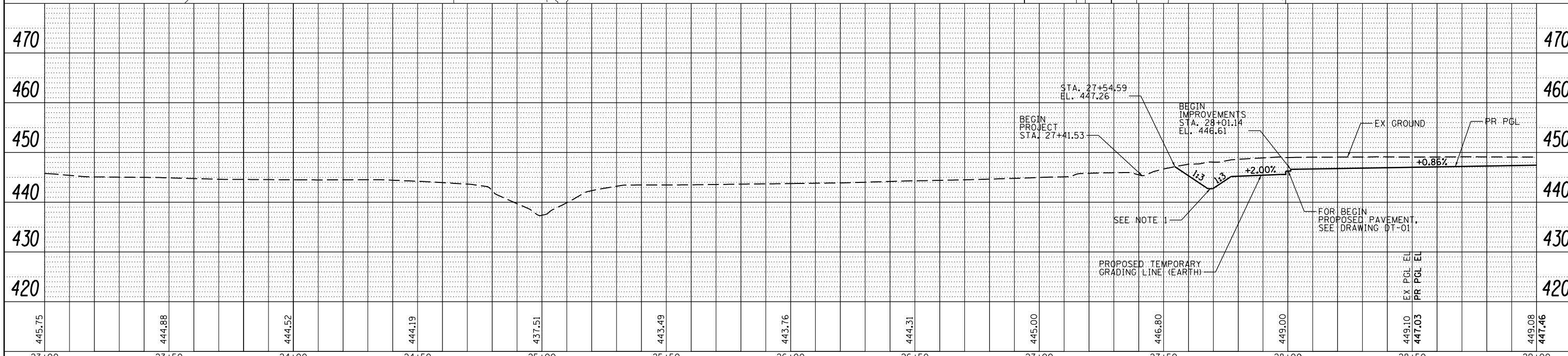
BENCHMARK		
BENCHMARK	ELEVATION	DESCRIPTION
BM11	443.04	CUT SQUARE ON THE TOP CENTER OF THE NORTH HEADWALL OF AN ACROSS ROAD CULVERT. 57.05' LEFT OF THE CL OF RTE 13 WBL @ STA 488+08.33

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	FILED	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES	
	CHECKED	
	STRUCTURE	
	NOTATIONS	
	CHKD	
	NO.	



NOTES:
1. FOR TEMPORARY DITCH INFORMATION, SEE DRAWING DU-01.



FILE NAME =	USER NAME = \$USER\$	DESIGNED - CK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN AND PROFILE SHEETS NORTH FRONTAGE ROAD	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwork\pwork\dot\collem\0265445\097825\p\sh\p\prf-01.dgn		DRAWN - MP	REVISED -			331	(1-3)R-3	WILLIAMSON	58	21
PLOT SCALE = 40.0000' / in.		CHECKED - DM	REVISED -			DRAWING NO.		CONTRACT NO. 78259		
PLOT DATE = 2/22/2013		DATE - 7/6/2012	REVISED -			SCALE:		SHEET NO. 1 OF 5 SHEETS		STA. 28+01.14 TO STA. 29+00.00

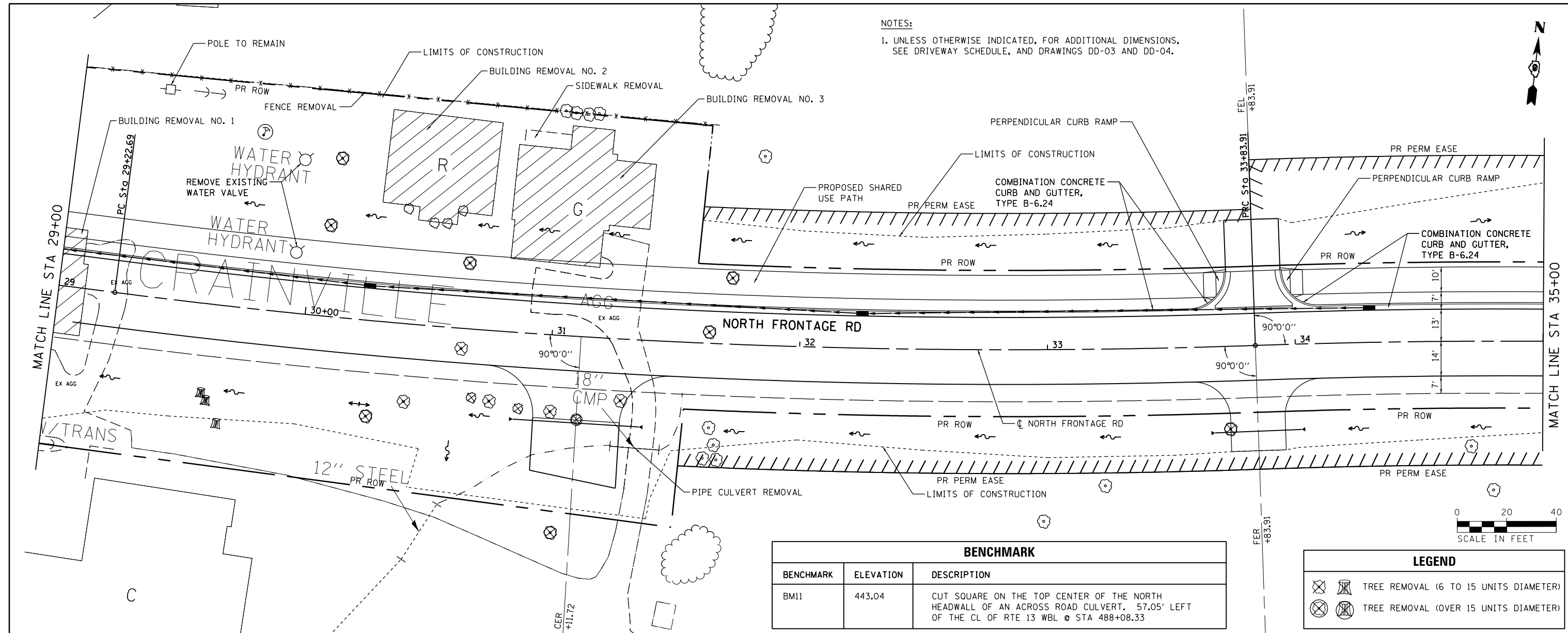


ILLINOIS FED. AID PROJECT

PLAN	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	FILE NAME	

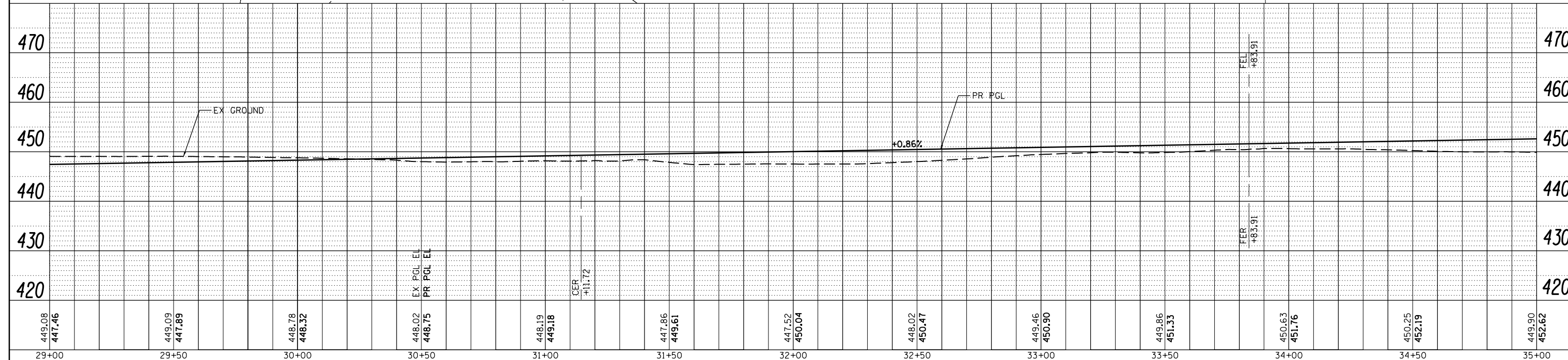
PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	FILE NAME	

NOTES:
1. UNLESS OTHERWISE INDICATED, FOR ADDITIONAL DIMENSIONS, SEE DRIVEWAY SCHEDULE, AND DRAWINGS DD-03 AND DD-04.



BENCHMARK		
BENCHMARK	ELEVATION	DESCRIPTION
BM11	443.04	CUT SQUARE ON THE TOP CENTER OF THE NORTH HEADWALL OF AN ACROSS ROAD CULVERT. 57.05' LEFT OF THE CL OF RTE 13 WBL @ STA 488+08.33

LEGEND	
	TREE REMOVAL (6 TO 15 UNITS DIAMETER)
	TREE REMOVAL (OVER 15 UNITS DIAMETER)



449.08 447.46	449.09 447.89	448.78 448.32	448.02 448.75	448.19 449.18	447.86 449.61	447.52 450.04	448.02 450.47	449.46 450.90	449.86 451.33	450.63 451.76	450.25 452.19	449.90 452.62
29+00	29+50	30+00	30+50	31+00	31+50	32+00	32+50	33+00	33+50	34+00	34+50	35+00

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CH2MHILL

USER NAME = USER*
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DRAWN - MP
CHECKED - DM
DATE - 7/6/2012

REVISED -
REVISED -
REVISED -
REVISED -

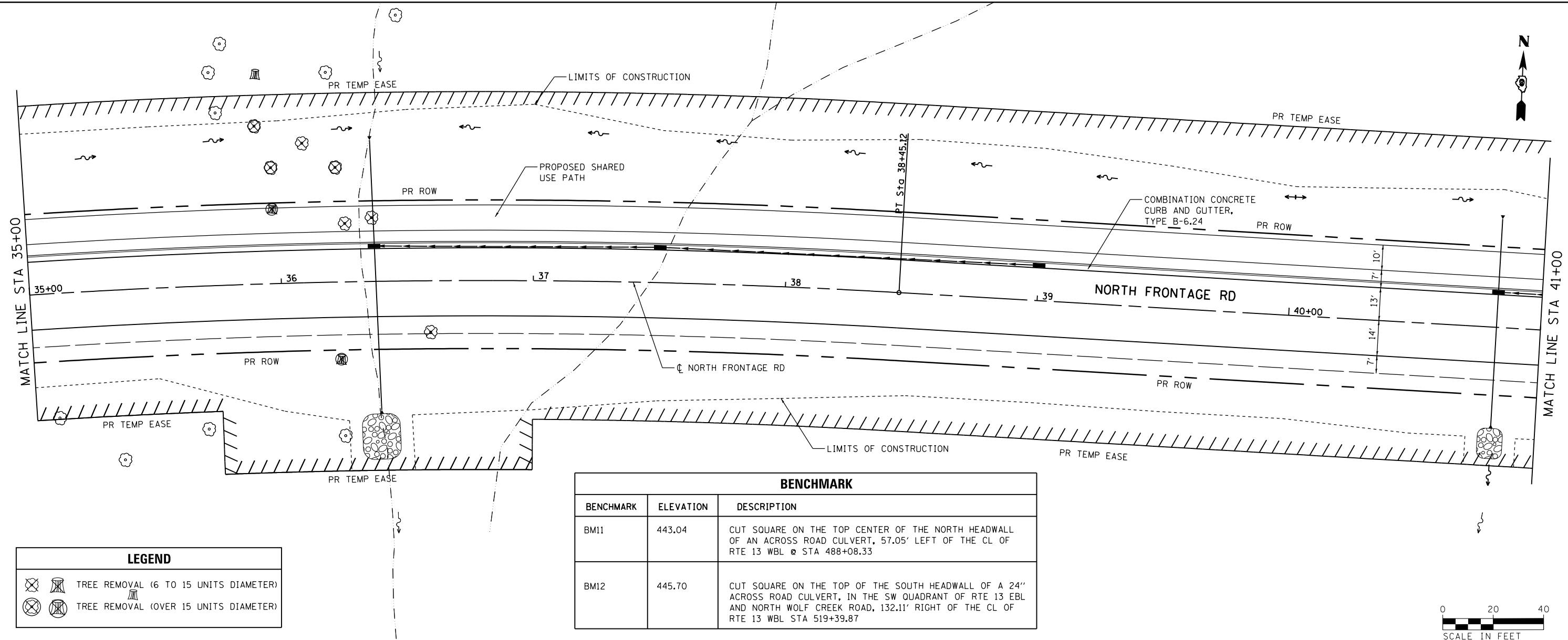
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE SHEETS
NORTH FRONTAGE ROAD
SCALE: SHEET NO. 2 OF 5 SHEETS STA. 29+00.00 TO STA. 35+00.00

F.A.P. RTE. 331	SECTION (I-3)R-3	COUNTY WILLIAMSON	TOTAL SHEETS 58	SHEET NO. 22
DRAWING NO.		CONTRACT NO. 78259		
ILLINOIS FED. AID PROJECT				

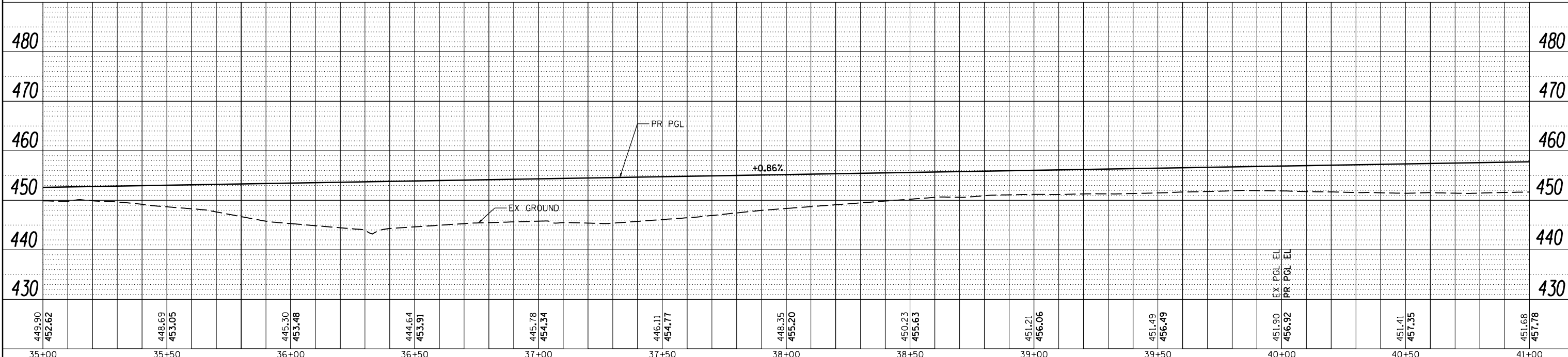
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	PLOTTED	BY
	ALIGNED	
	CHECKED	
	FILED	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NO.	



LEGEND	
	TREE REMOVAL (6 TO 15 UNITS DIAMETER)
	TREE REMOVAL (OVER 15 UNITS DIAMETER)

BENCHMARK		
BENCHMARK	ELEVATION	DESCRIPTION
BM11	443.04	CUT SQUARE ON THE TOP CENTER OF THE NORTH HEADWALL OF AN ACROSS ROAD CULVERT, 57.05' LEFT OF THE CL OF RTE 13 WBL @ STA 488+08.33
BM12	445.70	CUT SQUARE ON THE TOP OF THE SOUTH HEADWALL OF A 24" ACROSS ROAD CULVERT, IN THE SW QUADRANT OF RTE 13 EBL AND NORTH WOLF CREEK ROAD, 132.11' RIGHT OF THE CL OF RTE 13 WBL STA 519+39.87

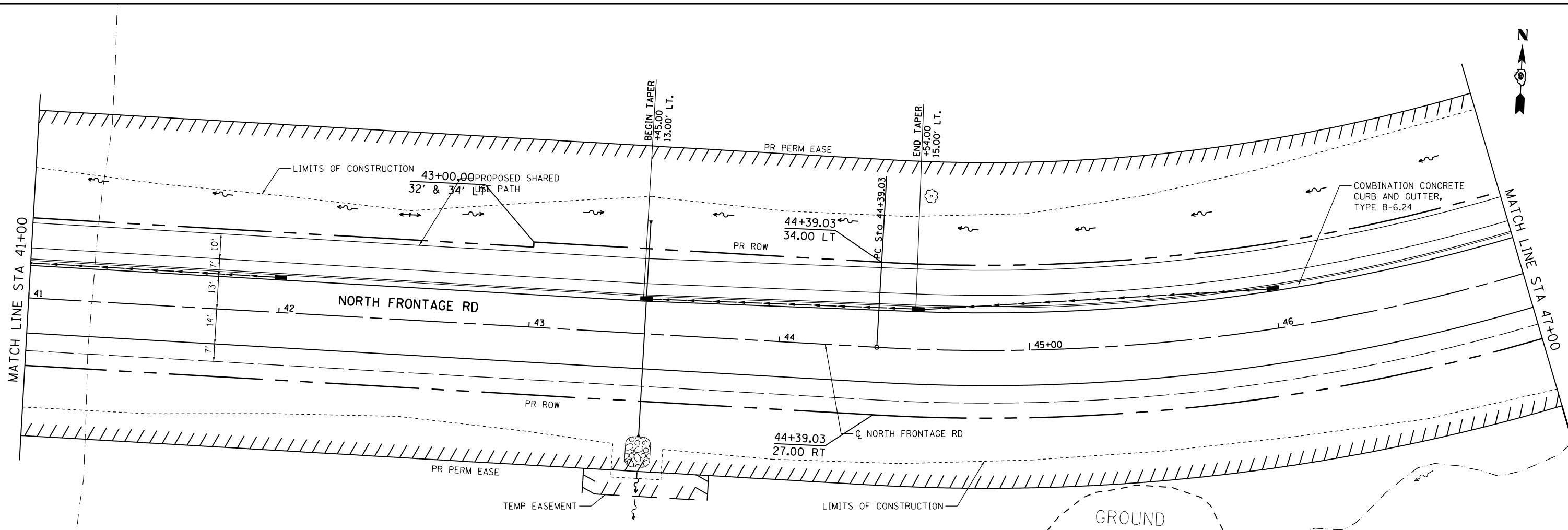


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c:\pwork\pwork\collem\0265445\097825\p\shp\p\prf-03.dgn		DRAWN - MP	REVISED -			331	(1-3)R-3	WILLIAMSON	58	23
PLOT SCALE = 40.0000' / in.		CHECKED - DM	REVISED -			DRAWING NO.		CONTRACT NO. 78259		
PLOT DATE = 2/22/2013		DATE - 7/6/2012	REVISED -			SCALE:		SHEET NO. 3 OF 5 SHEETS		STA. 35+00.00 TO STA. 41+00.00



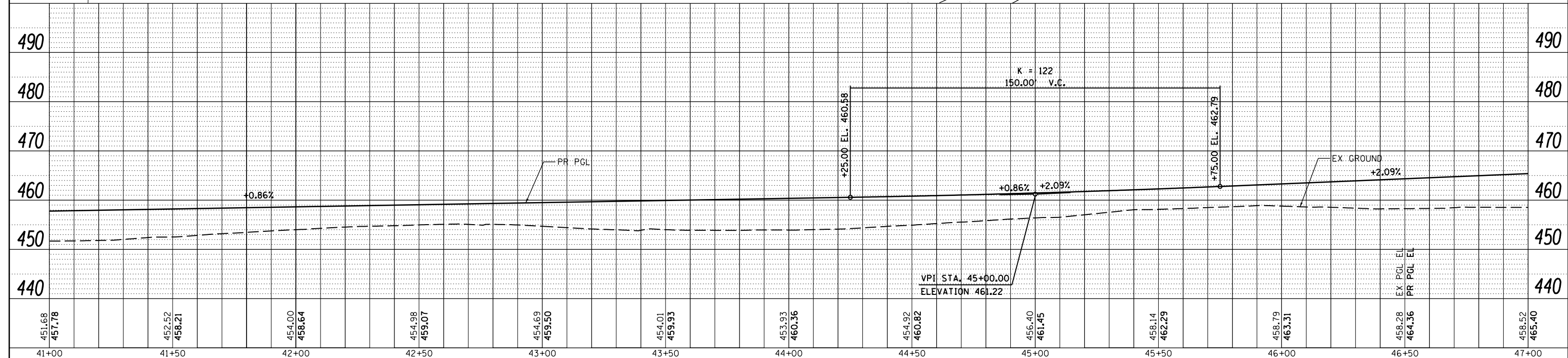
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	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	FILE NAME	



LEGEND	
	TREE REMOVAL (6 TO 15 UNITS DIAMETER)
	TREE REMOVAL (OVER 15 UNITS DIAMETER)

BENCHMARK		
BENCHMARK	ELEVATION	DESCRIPTION
BM12	445.70	CUT SQUARE ON THE TOP OF THE SOUTH HEADWALL OF A 24" ACROSS ROAD CULVERT, IN THE SW QUADRANT OF RTE 13 EBL AND NORTH WOLF CREEK ROAD, 132.11' RIGHT OF THE CL OF RTE 13 WBL STA 519+39.87

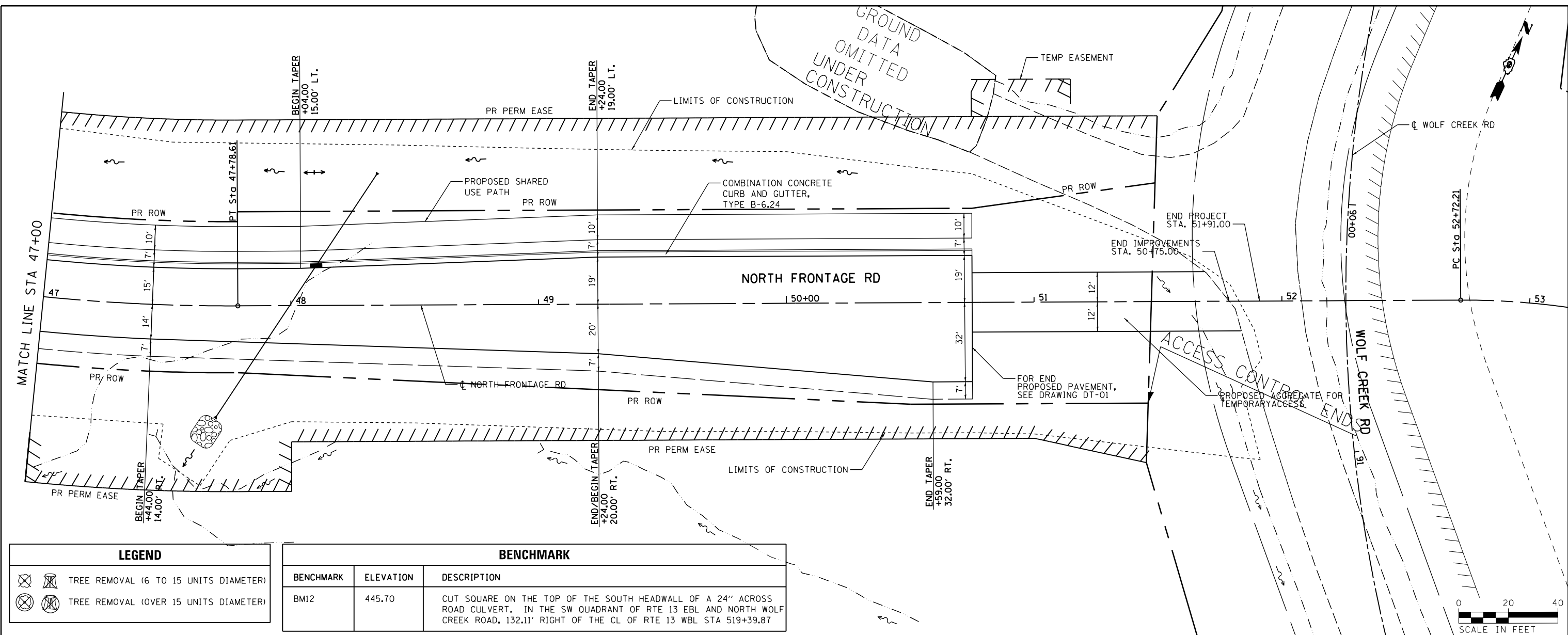


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c:\pwork\pwork\collem\0265445\097825\sheet\p1nprf-04.dgn		DRAWN - MP	REVISED -			331	(1-3)R-3	WILLIAMSON	58	24
PLOT SCALE = 40.0000' / in.		CHECKED - DM	REVISED -			DRAWING NO.		CONTRACT NO. 78259		
PLOT DATE = 2/22/2013		DATE - 7/6/2012	REVISED -			SCALE:		SHEET NO. 4 OF 5 SHEETS		STA. 41+00.00 TO STA. 47+00.00



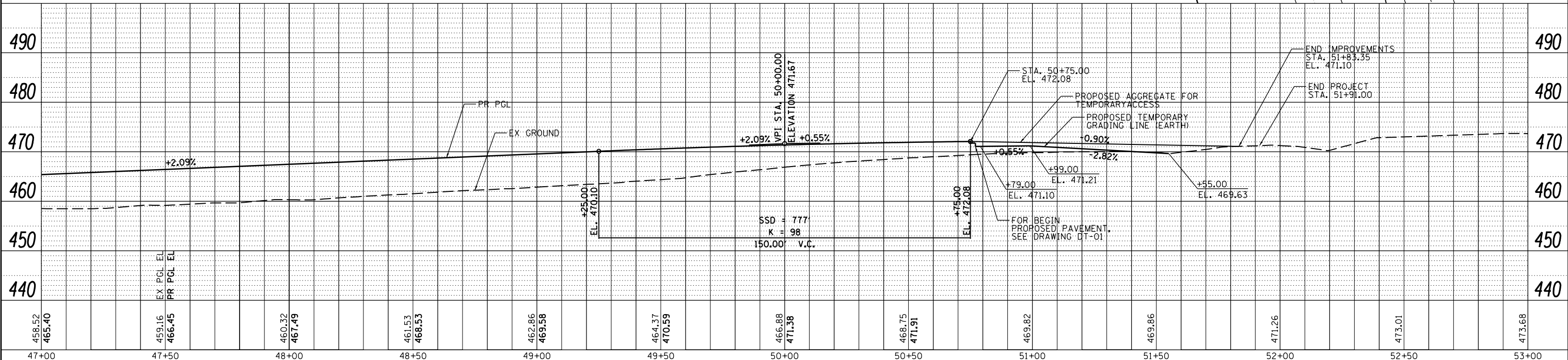
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	PLOTTED	BY
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PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NO.	

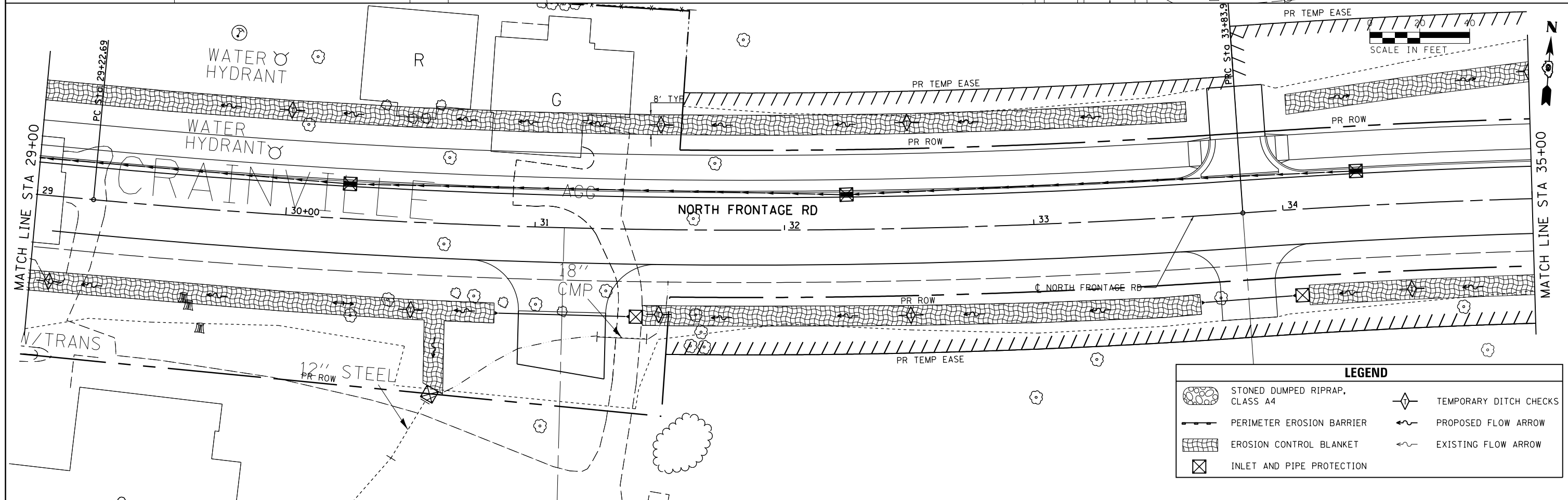
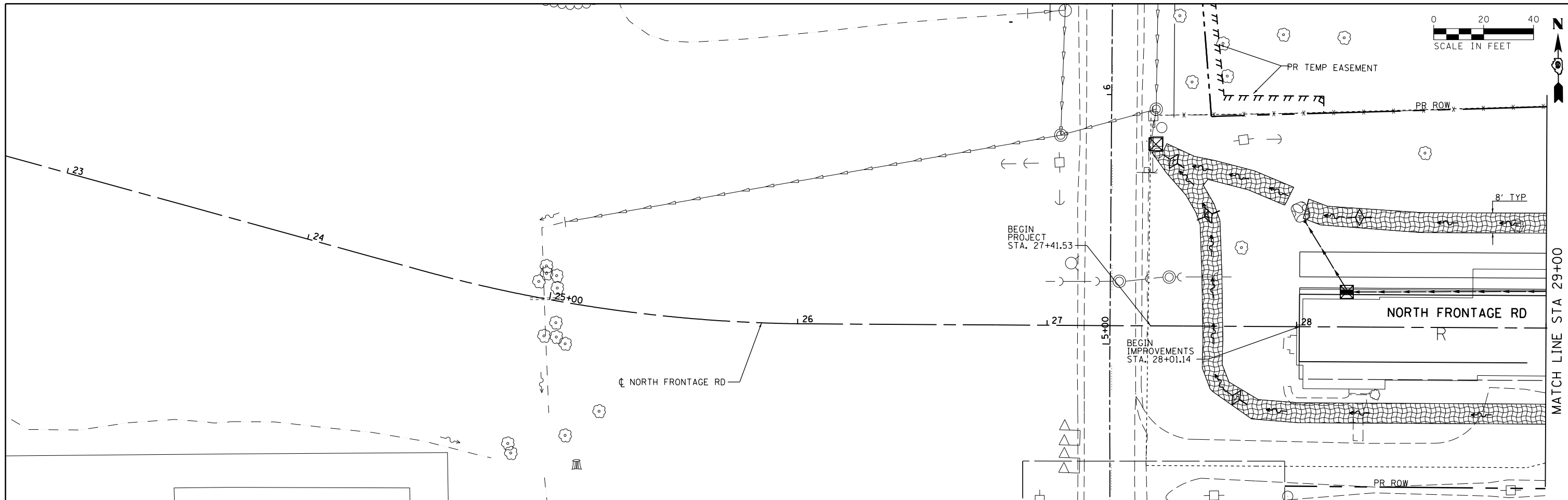


LEGEND	
	TREE REMOVAL (6 TO 15 UNITS DIAMETER)
	TREE REMOVAL (OVER 15 UNITS DIAMETER)

BENCHMARK		
BENCHMARK	ELEVATION	DESCRIPTION
BM12	445.70	CUT SQUARE ON THE TOP OF THE SOUTH HEADWALL OF A 24" ACROSS ROAD CULVERT. IN THE SW QUADRANT OF RTE 13 EBL AND NORTH WOLF CREEK ROAD, 132.11' RIGHT OF THE CL OF RTE 13 WBL STA 519+39.87



FILE NAME =	USER NAME = USER*	DESIGNED - CK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN AND PROFILE SHEETS NORTH FRONTAGE ROAD	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CH2MHILL	PLOT DATE = 2/22/2013	CHECKED - DM	REVISED -			DRAWING NO.		CONTRACT NO. 78259		ILLINOIS FED. AID PROJECT
	DATE = 7/6/2012	DATE = 7/6/2012	REVISED -			SCALE:	SHEET NO. 5 OF 5 SHEETS	STA. 47+00.00 TO STA. 50+75.00		



LEGEND	
	STONED DUMPED RIPRAP, CLASS A4
	PERIMETER EROSION BARRIER
	EROSION CONTROL BLANKET
	INLET AND PIPE PROTECTION
	TEMPORARY DITCH CHECKS
	PROPOSED FLOW ARROW
	EXISTING FLOW ARROW

FILE NAME =	USER NAME = \$USERS	DESIGNED - CK	REVISED -
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		CHECKED - DM	REVISED -
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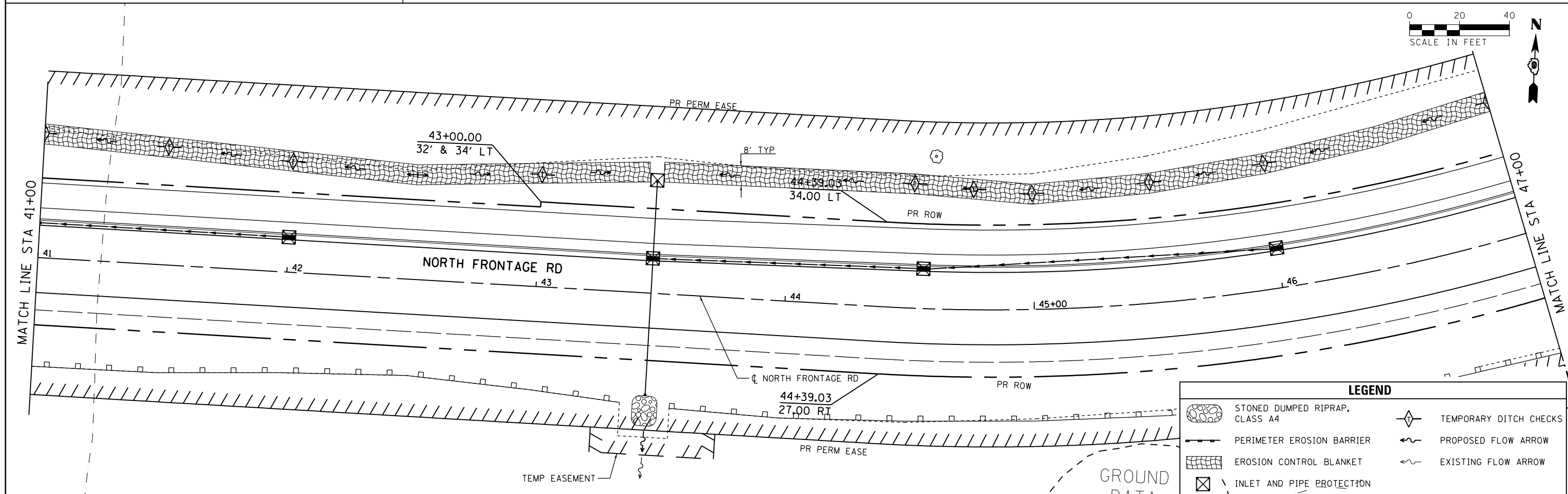
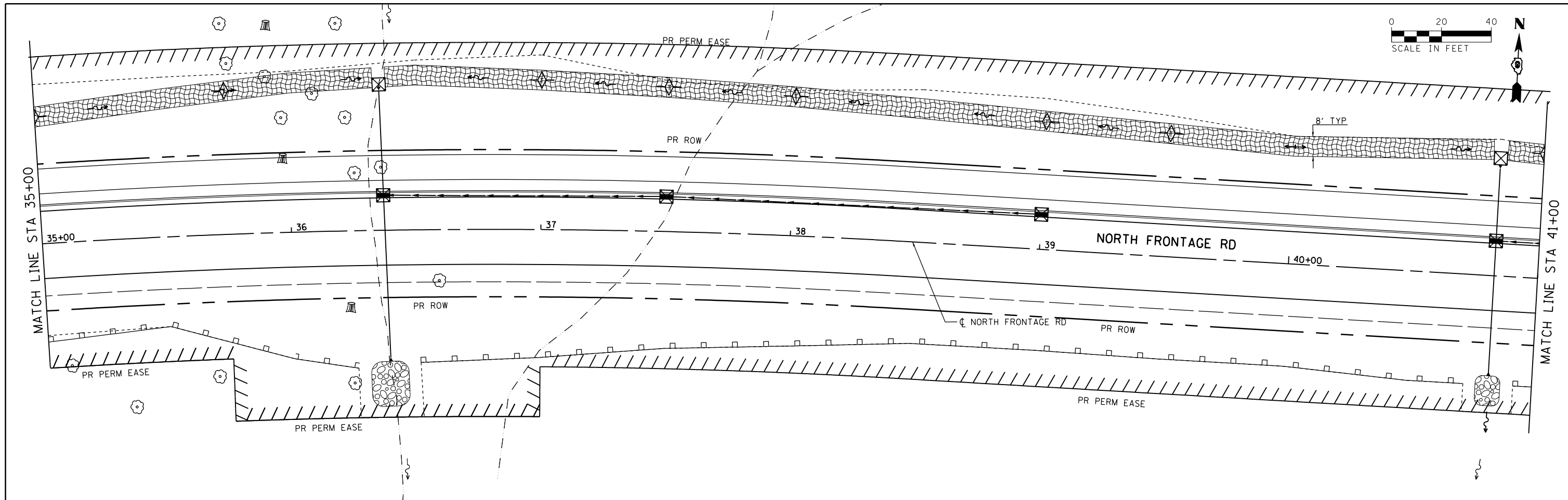
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EROSION AND SEDIMENT CONTROL SHEETS
NORTH FRONTAGE ROAD**

SCALE: SHEET NO. 1 OF 3 SHEETS STA. 28+01.14 TO STA. 35+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
331	(1-3)R-3	WILLIAMSON	58	26
DRAWING NO.		CONTRACT NO. 78259		
ILLINOIS FED. AID PROJECT				





LEGEND	
	STONED DUMPED RIPRAP, CLASS A4
	PERIMETER EROSION BARRIER
	EROSION CONTROL BLANKET
	INLET AND PIPE PROTECTION
	TEMPORARY DITCH CHECKS
	PROPOSED FLOW ARROW
	EXISTING FLOW ARROW

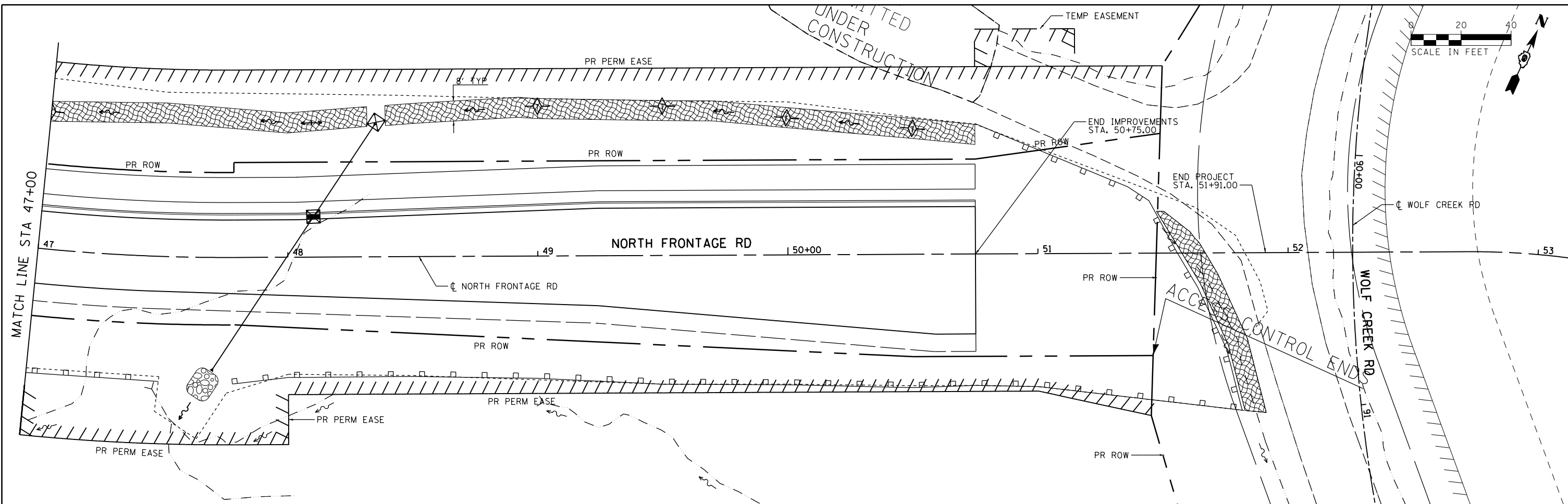
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	PLOT SCALE = 40.0000' / in.	CHECKED - DM	REVISED -
	PLOT DATE = 2/22/2013	DATE - 7/6/2012	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EROSION AND SEDIMENT CONTROL SHEETS
NORTH FRONTAGE ROAD**

SCALE: SHEET NO. 2 OF 3 SHEETS STA. 35+00.00 TO STA. 47+00.00

F.A.P. RTE. 331	SECTION (1-3)R-3	COUNTY WILLIAMSON	TOTAL SHEETS 58	SHEET NO. 27
DRAWING NO.		CONTRACT NO. 78259		
ILLINOIS FED. AID PROJECT				



LEGEND			
	STONED DUMPED RIPRAP, CLASS A4		TEMPORARY DITCH CHECKS
	PERIMETER EROSION BARRIER		PROPOSED FLOW ARROW
	EROSION CONTROL BLANKET		EXISTING FLOW ARROW
	INLET AND PIPE PROTECTION		

FILE NAME =	USER NAME = \$USER\$	DESIGNED - CK	REVISED -
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CH2MHILL	PLOT SCALE = 40.0000' / in.	CHECKED - DM	REVISED -
	PLOT DATE = 2/22/2013	DATE - 7/6/2012	REVISED -

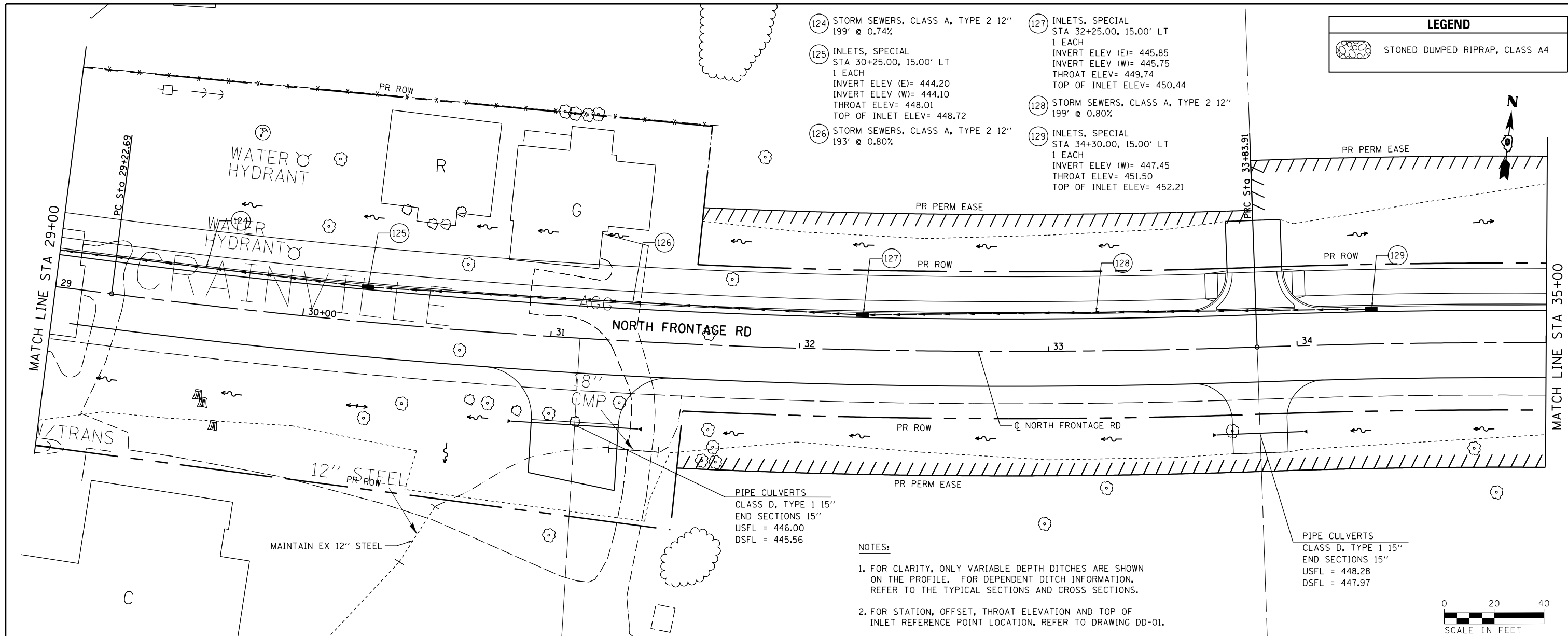
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION AND SEDIMENT CONTROL SHEETS	
NORTH FRONTAGE ROAD	
SCALE:	SHEET NO. 3 OF 3 SHEETS STA. 47+00.00 TO STA. 50+75.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
331	(1-3)R-3	WILLIAMSON	58	28
DRAWING NO.		CONTRACT NO. 78259		
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	BY
	NOTE BOOK	
	NO.	
	CHECKED	
	FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NO.	



- 124 STORM SEWERS, CLASS A, TYPE 2 12" 199' @ 0.74%
- 125 INLETS, SPECIAL STA 30+25.00, 15.00' LT 1 EACH INVERT ELEV (E)= 444.20 INVERT ELEV (W)= 444.10 THROAT ELEV= 448.01 TOP OF INLET ELEV= 448.72
- 126 STORM SEWERS, CLASS A, TYPE 2 12" 193' @ 0.80%
- 127 INLETS, SPECIAL STA 32+25.00, 15.00' LT 1 EACH INVERT ELEV (E)= 445.85 INVERT ELEV (W)= 445.75 THROAT ELEV= 449.74 TOP OF INLET ELEV= 450.44
- 128 STORM SEWERS, CLASS A, TYPE 2 12" 199' @ 0.80%
- 129 INLETS, SPECIAL STA 34+30.00, 15.00' LT 1 EACH INVERT ELEV (W)= 447.45 THROAT ELEV= 451.50 TOP OF INLET ELEV= 452.21

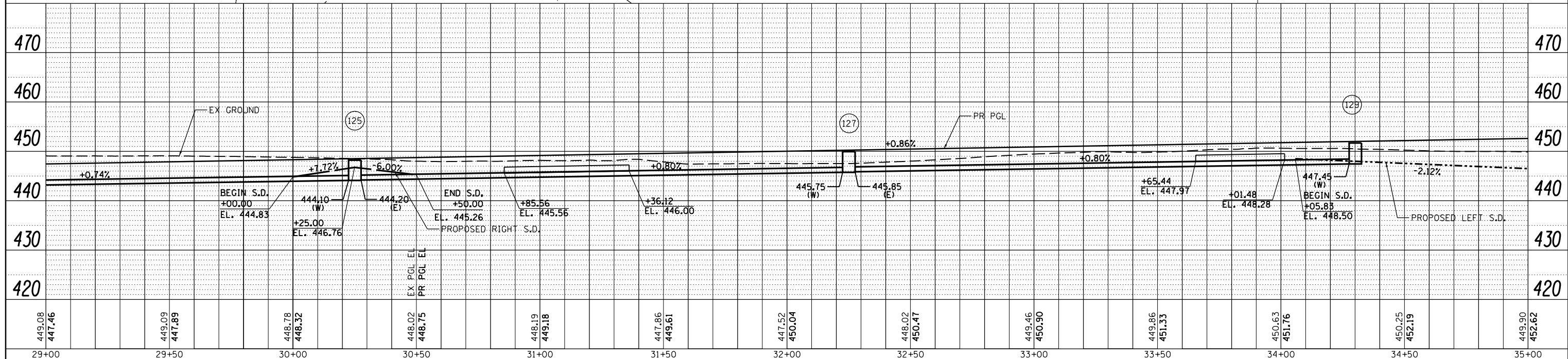
LEGEND

STONED DUMPED RIPRAP, CLASS A4

PIPE CULVERTS
CLASS D, TYPE 1 15"
END SECTIONS 15"
USFL = 446.00
DSFL = 445.56

PIPE CULVERTS
CLASS D, TYPE 1 15"
END SECTIONS 15"
USFL = 448.28
DSFL = 447.97

- NOTES:**
- FOR CLARITY, ONLY VARIABLE DEPTH DITCHES ARE SHOWN ON THE PROFILE. FOR DEPENDENT DITCH INFORMATION, REFER TO THE TYPICAL SECTIONS AND CROSS SECTIONS.
 - FOR STATION, OFFSET, THROAT ELEVATION AND TOP OF INLET REFERENCE POINT LOCATION, REFER TO DRAWING DD-01.



449.08 447.46	449.09 447.89	448.78 448.32	448.02 448.75	448.19 449.18	447.86 449.61	447.52 450.04	448.02 450.47	449.46 450.90	449.86 451.33	450.63 451.76	450.25 452.19	449.90 452.62
29+00	29+50	30+00	30+50	31+00	31+50	32+00	32+50	33+00	33+50	34+00	34+50	35+00

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CH2MHILL

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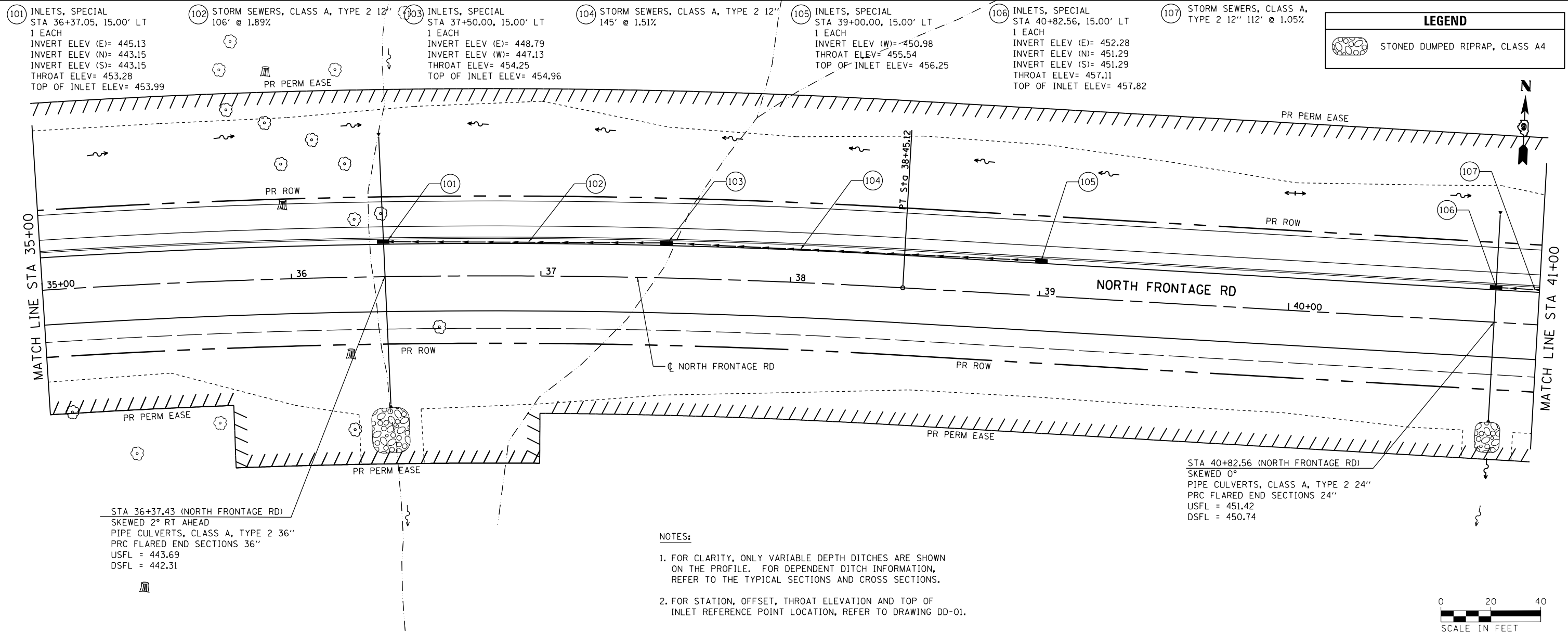
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DRAINAGE AND UTILITIES SHEETS
NORTH FRONTAGE ROAD**
SCALE: SHEET NO. 2 OF 5 SHEETS STA. 29+00.00 TO STA. 35+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
331	(1-3)R-3	WILLIAMSON	58	30
DRAWING NO.		CONTRACT NO. 78259		
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	FILE NAME	

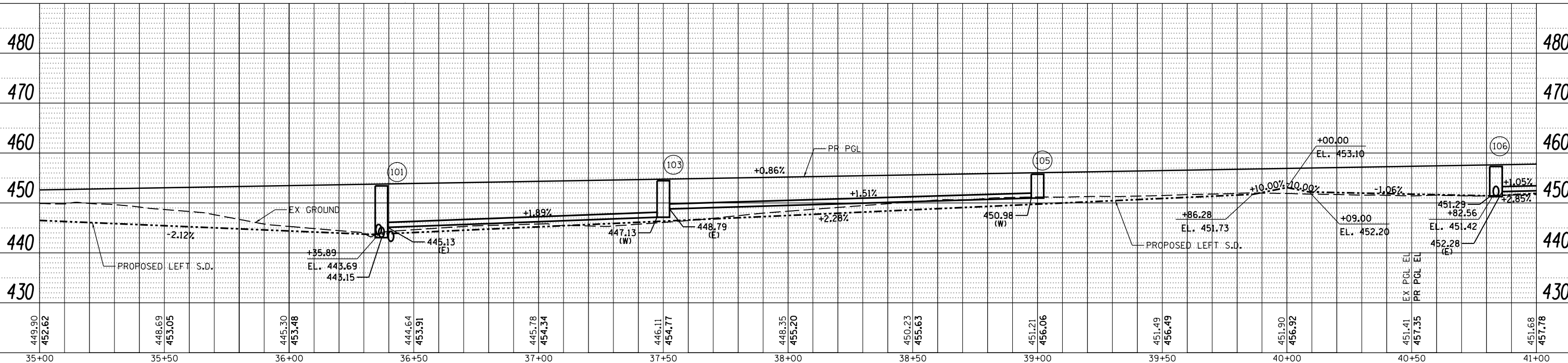
PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	FILE NAME	



STA 36+37.43 (NORTH FRONTAGE RD)
 SKEWED 2° RT AHEAD
 PIPE CULVERTS, CLASS A, TYPE 2 36"
 PRC FLARED END SECTIONS 36"
 USFL = 443.69
 DSFL = 442.31

STA 40+82.56 (NORTH FRONTAGE RD)
 SKEWED 0°
 PIPE CULVERTS, CLASS A, TYPE 2 24"
 PRC FLARED END SECTIONS 24"
 USFL = 451.42
 DSFL = 450.74

- NOTES:**
- FOR CLARITY, ONLY VARIABLE DEPTH DITCHES ARE SHOWN ON THE PROFILE. FOR DEPENDENT DITCH INFORMATION, REFER TO THE TYPICAL SECTIONS AND CROSS SECTIONS.
 - FOR STATION, OFFSET, THROAT ELEVATION AND TOP OF INLET REFERENCE POINT LOCATION, REFER TO DRAWING DD-01.



FILE NAME =	USER NAME = \$USER\$	DESIGNED - CK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE AND UTILITIES SHEETS NORTH FRONTAGE ROAD	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
CH2MHILL	PLOT SCALE = 40.0000' / in.	DRAWN - MP	REVISED -			331	(1-3)R-3	WILLIAMSON	58	31	
	PLOT DATE = 2/22/2013	CHECKED - DM	REVISED -			DRAWING NO.		CONTRACT NO. 78259		ILLINOIS FED. AID PROJECT	
		DATE - 7/6/2012	REVISED -			SCALE:	SHEET NO. 3 OF 5 SHEETS	STA. 35+00.00	TO STA. 41+00.00		

PLAN	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	CARD FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	CARD FILE NAME	

107 STORM SEWERS, CLASS A, TYPE 2 12"
112' @ 1.05%

108 INLETS, SPECIAL
42+00.00, 15.00' LT
1 EACH
INVERT ELEV (W)= 453.46
THROAT ELEV= 458.12
TOP OF INLET ELEV= 458.83

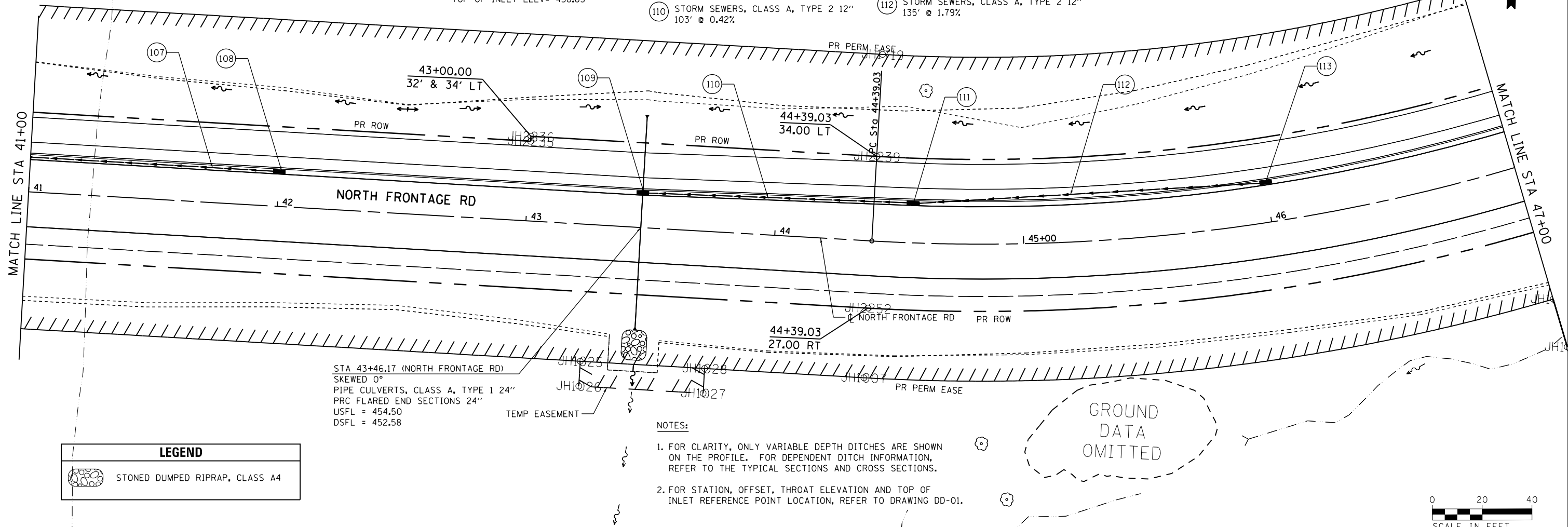
109 INLETS, SPECIAL
STA 43+46.17, 15.00' LT
1 EACH
INVERT ELEV (E)= 455.14
INVERT ELEV (N)= 453.87
INVERT ELEV (S)= 453.87
THROAT ELEV= 459.38
TOP OF INLET ELEV= 460.09

110 STORM SEWERS, CLASS A, TYPE 2 12"
103' @ 0.42%

111 INLETS, SPECIAL
STA 44+55.00, 17.00' LT
1 EACH
INVERT ELEV (E)= 455.68
INVERT ELEV (W)= 455.57
THROAT ELEV= 460.18
TOP OF INLET ELEV= 460.89

112 STORM SEWERS, CLASS A, TYPE 2 12"
135' @ 1.79%

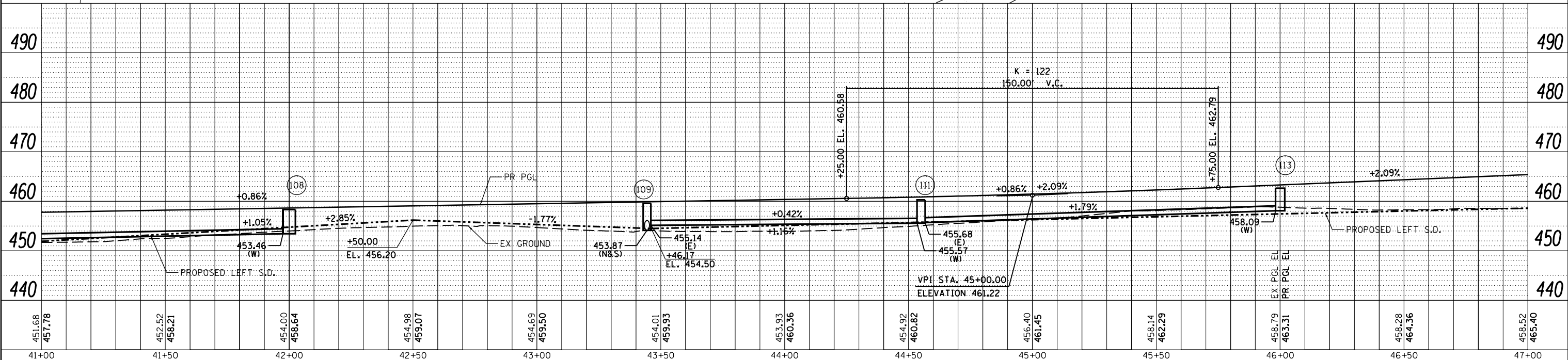
113 INLETS, SPECIAL
STA 46+00.00, 17.00' LT
1 EACH
INVERT ELEV (W)= 458.09
THROAT ELEV= 462.53
TOP OF INLET ELEV= 463.24



STA 43+46.17 (NORTH FRONTAGE RD)
SKEWED 0°
PIPE CULVERTS, CLASS A, TYPE 1 24"
PRC FLARED END SECTIONS 24"
USFL = 454.50
DSFL = 452.58

LEGEND	
	STONED DUMPED RIPRAP, CLASS A4

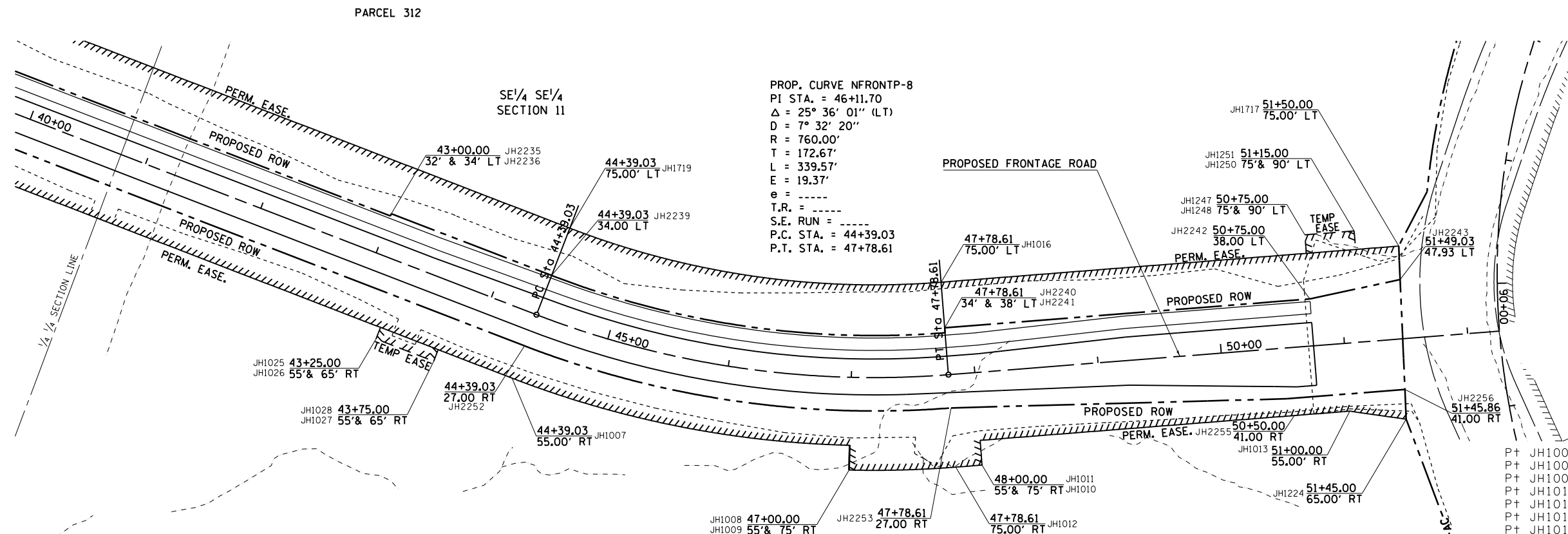
- NOTES:
- FOR CLARITY, ONLY VARIABLE DEPTH DITCHES ARE SHOWN ON THE PROFILE. FOR DEPENDENT DITCH INFORMATION, REFER TO THE TYPICAL SECTIONS AND CROSS SECTIONS.
 - FOR STATION, OFFSET, THROAT ELEVATION AND TOP OF INLET REFERENCE POINT LOCATION, REFER TO DRAWING DD-01.



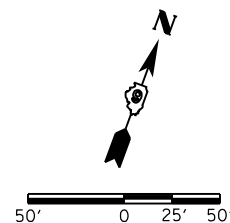
FILE NAME =	USER NAME = \$USER\$	DESIGNED - CK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE AND UTILITIES SHEETS NORTH FRONTAGE ROAD	F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwork\pwork\collem\0265445\097825\sheet-drain-04.dgn		DRAWN - MP	REVISED -			331	(1-3)R-3	WILLIAMSON	58	32
PLOT SCALE = 40.0000' / in.		CHECKED - DM	REVISED -			DRAWING NO.		CONTRACT NO. 78259		
PLOT DATE = 2/22/2013		DATE - 7/6/2012	REVISED -			SCALE:		SHEET NO. 4 OF 5 SHEETS		STA. 41+00.00 TO STA. 47+00.00

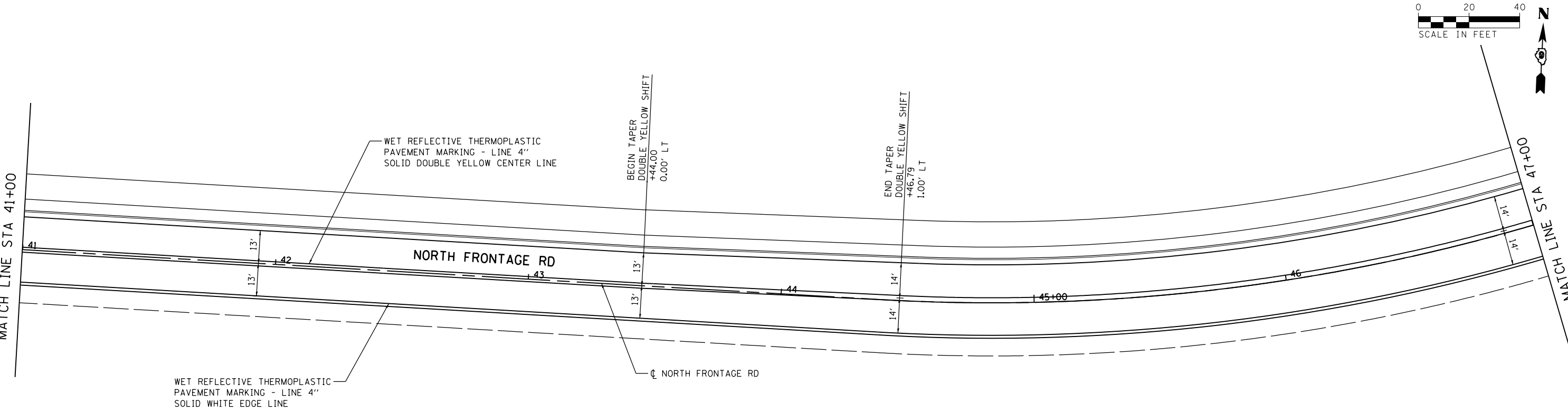
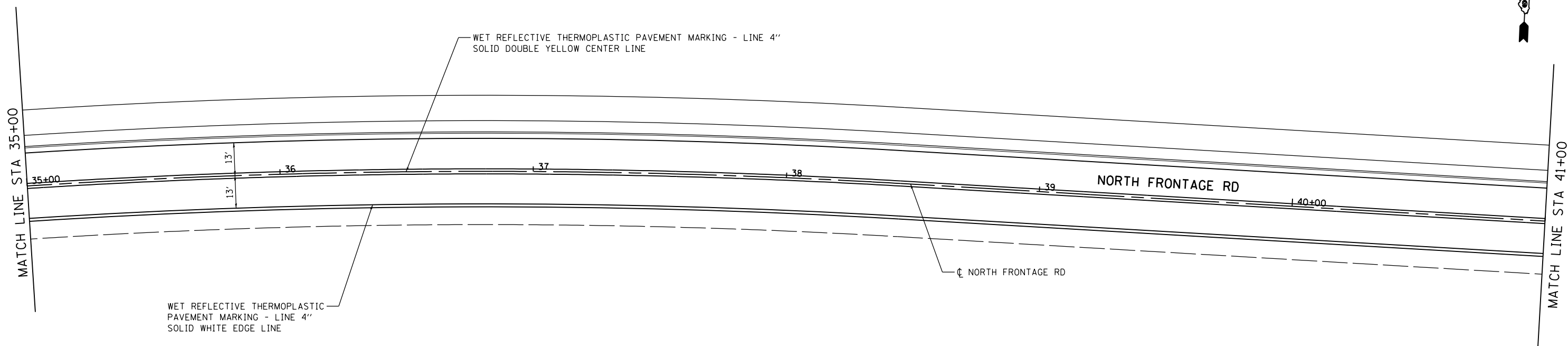
CH2MHILL

ILLINOIS FED. AID PROJECT



POINT NUMBERS			
P+	JH1007	Y 393981.1346	X 773579.8640
P+	JH1008	Y 394024.7873	X 773854.9044
P+	JH1009	Y 394005.8606	X 773861.3680
P+	JH1010	Y 394046.9122	X 773960.9327
P+	JH1011	Y 394065.0705	X 773952.5495
P+	JH1012	Y 394037.9446	X 773941.5085
P+	JH1013	Y 394190.8185	X 774224.9232
P+	JH1016	Y 394174.1314	X 773878.6345
P+	JH1025	Y 393982.7638	X 773465.8456
P+	JH1026	Y 393972.7648	X 773465.7028
P+	JH1027	Y 393972.0504	X 773515.6977
P+	JH1028	Y 393982.0494	X 773515.8405
P+	JH1224	Y 394200.6016	X 774269.9709
P+	JH1247	Y 394298.3681	X 774147.7346
P+	JH1248	Y 394311.9868	X 774141.4472
P+	JH1250	Y 394328.7532	X 774177.7637
P+	JH1251	Y 394315.1345	X 774184.0511
P+	JH1717	Y 394329.8051	X 774215.8281
P+	JH1719	Y 394111.1214	X 773581.7213
P+	JH2235	Y 394070.1121	X 773442.0912
P+	JH2236	Y 394072.1119	X 773442.1197
P+	JH2239	Y 394070.1255	X 773581.1356
P+	JH2240	Y 394136.9070	X 773895.8200
P+	JH2241	Y 394140.5387	X 773894.1434
P+	JH2242	Y 394264.7753	X 774163.2436
P+	JH2243	Y 394304.8197	X 774226.2982
P+	JH2252	Y 394009.1318	X 773580.2640
P+	JH2253	Y 394081.5244	X 773921.3888
P+	JH2255	Y 394182.5713	X 774173.6594
P+	JH2256	Y 394222.7507	X 774260.6893





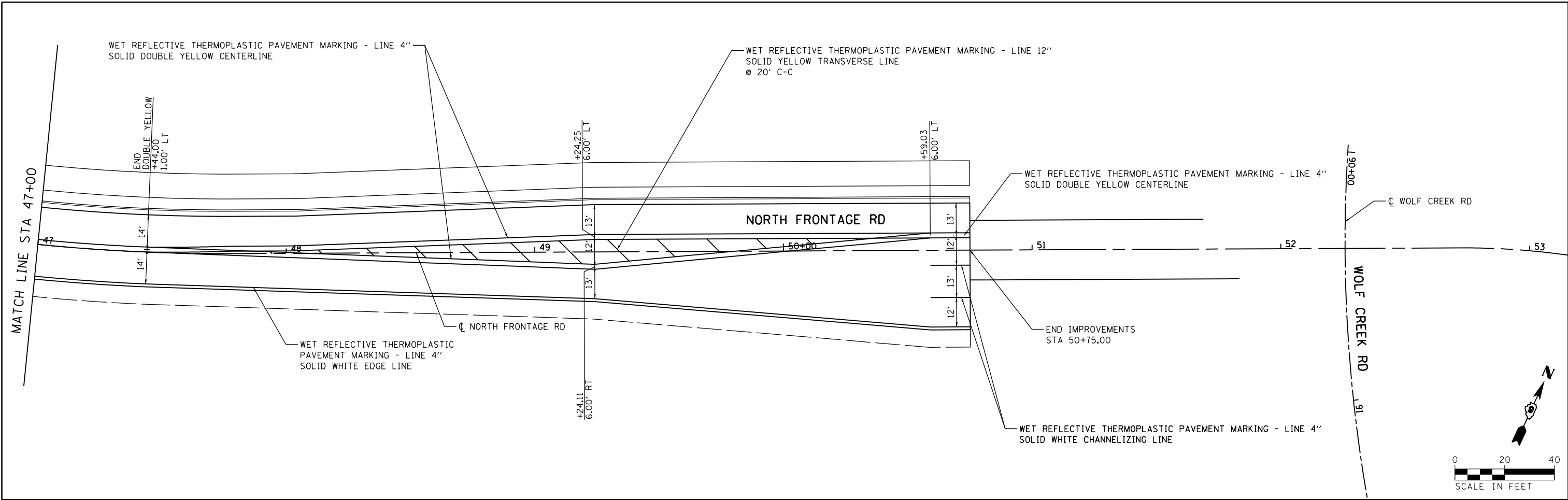
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CH2MHILL®	PLOT SCALE = 40.0000' / in.	CHECKED - DM	REVISED -
	PLOT DATE = 12/14/2012	DATE - 7/6/2012	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN SHEETS
NORTH FRONTAGE ROAD**

SCALE: SHEET NO. 2 OF 3 SHEETS STA. 35+00.00 TO STA. 47+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
331	(1-3)R-3	WILLIAMSON	58	37
DRAWING NO.		CONTRACT NO. 78259		
ILLINOIS FED. AID PROJECT				



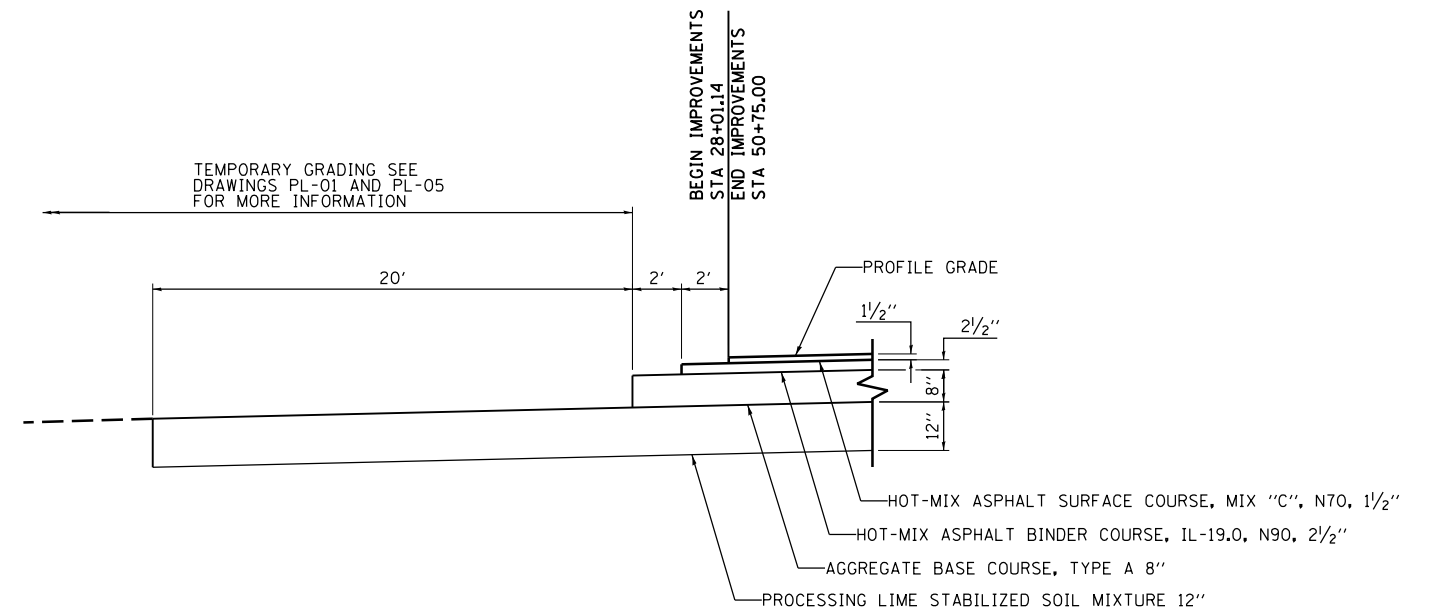
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CH2MHILL	PLOT SCALE = 40.0000' / in.	CHECKED - DM	REVISED -
	PLOT DATE = 12/14/2012	DATE - 7/6/2012	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN SHEETS
NORTH FRONTAGE ROAD**

SCALE: SHEET NO. 3 OF 3 SHEETS STA. 47+00.00 TO STA. 50+75.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
331	(1-3)R-3	WILLIAMSON	58	38
DRAWING NO.		CONTRACT NO. 78259		
ILLINOIS FED. AID PROJECT				



BEGIN / END PROPOSED PAVEMENT DETAIL

TO BE USED AT STA 28+01.14 AND STA 50+75.00

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et:\pw\work\p\idot\lavenderba\d0265445\078259-sht-details-dt-01.dgn		DRAWN - MP	REVISED -
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	PLOT DATE = 12/14/2012	DATE - 7/6/2012	REVISED -

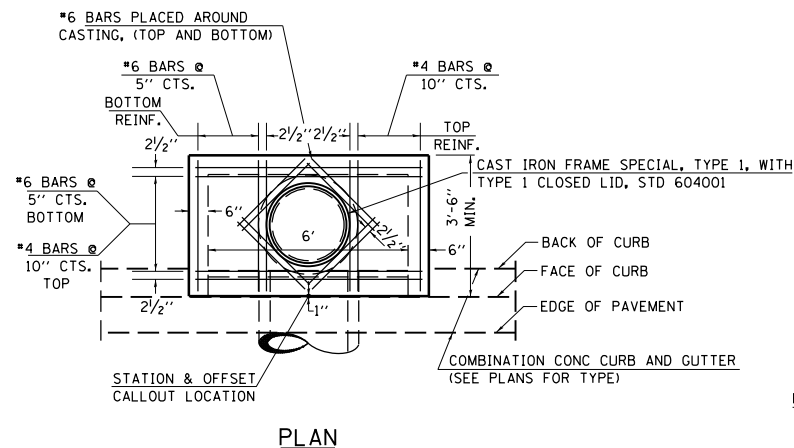
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY DETAILS
NORTH FRONTAGE ROAD

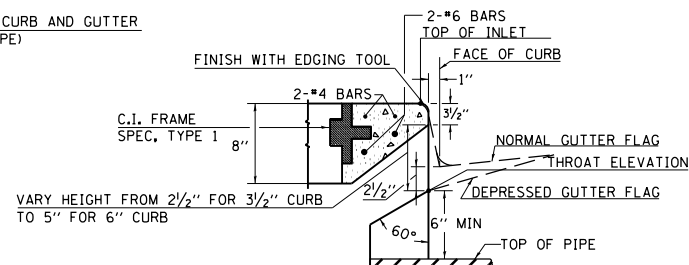
SCALE: SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
331	(1-3)R-3	WILLIAMSON	58	39
DRAWING NO.		CONTRACT NO. 78259		
ILLINOIS FED. AID PROJECT				

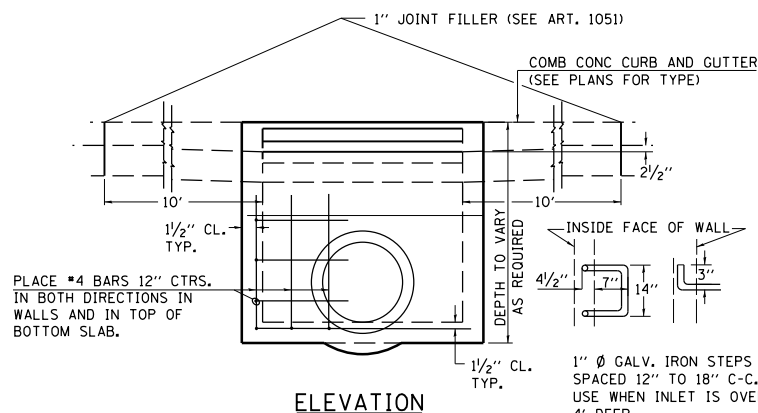
DETAILS OF INLETS, SPECIAL



PLAN



SECTION AT WEIR



ELEVATION

DESIGN	PIPE DIA	'D'
A	18" & LESS	2'-6"
B	21" & 24"	3'-0"
C	27" & 30"	3'-7"
D	33" & 36"	4'-2"
E	42"	4'-9"
F	48"	5'-0"
G	54"	6'-1"

NOTES:

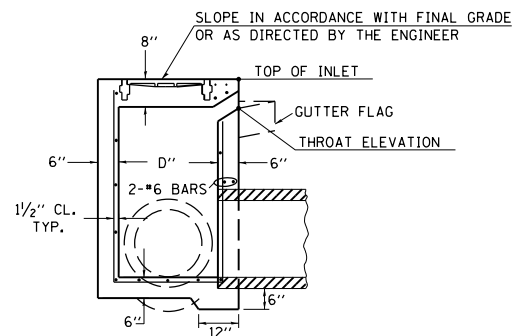
PROVIDE 1/2" CLEARANCE TYP. ALL REINFORCEMENT UNLESS OTHERWISE SPECIFIED.

CLASS SI CONCRETE SHALL BE USED THROUGHOUT. SET FACE OF INLET 1" BEHIND FACE OF CURB. DEPRESS GUTTER FLOWLINE AT INLET 2 1/2" BELOW NORMAL GUTTER FLOWLINE. CONSTRUCT TRANSITION IN FLOWLINE IN 10 FEET EACH SIDE OF INLET. PIPES TO BE CONNECTED TO INLET AS SHOWN ON STORM SEWER LAYOUT.

INLETS WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR **INLETS, SPECIAL** WHICH PRICE SHALL INCLUDE THE CAST IRON FRAME, SPECIAL, TYPE 1 WITH TYPE 1 CLOSED LID, THE REINFORCEMENT BARS, METAL STEPS AND JOINT FILLER.

**THE GALVANIZED IRON STEPS AS DETAILED HEREON ARE TYPICAL. STEPS OF OTHER DESIGN AND MATERIAL THAT WILL CONFORM TO THE MINIMUM REQUIREMENTS OF THE STEPS SHOWN. MAY BE USED WHEN APPROVED BY THE ENGINEER.

IF THE INLET IS NOT CAST IN PLACE THEN THE INLET SHALL BE PRODUCED ACCORDING TO THE DEPARTMENT'S CURRENT POLICY MEMORANDUM, "QUALITY CONTROL/QUALITY ASSURANCE PROGRAM FOR PRECAST CONCRETE PRODUCTS".



SECTION

REVISIONS	
REDRAWN	2-15-89
REVISED	8-15-94
REVISED	1-19-99
REVISED	5-6-04

STD. 9-1

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ENERGY DISSIPATOR

EARTH EXCAVATION FOR ENERGY DISSIPATOR

THIS WORK INVOLVES THE EXCAVATION OF EARTH AS SHOWN IN THE SKETCH TO THE LENGTH, WIDTH, AND DEPTH AS SPECIFIED. THE EARTH EXCAVATION WILL BE UTILIZED IN THE ROADWAY EMBANKMENT OR WASTED AS DIRECTED BY THE ENGINEER. THE EXCAVATION SHALL BE PERFORMED AT THE SAME TIME AS THE CULVERT OR DITCH IS CONSTRUCTED TO SERVE AS A TEMPORARY SEDIMENT TRAP.

EARTHWORK WILL BE CONSIDERED INCLUDED IN THE COST OF THE RIPRAP, CLASS A4.

ENERGY DISSIPATOR IS TO BE CONSTRUCTED AT THE LOCATION INDICATED ON THE EROSION AND SEDIMENT CONTROL DETAILS.

RIPRAP FOR ENERGY DISSIPATOR

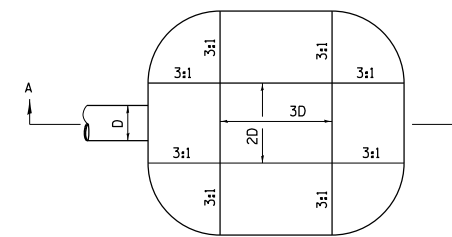
RIPRAP FOR ENERGY DISSIPATOR SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 281 OF THE STANDARD SPECIFICATIONS EXCEPT AS REVISED HEREIN.

THE LENGTH, WIDTH, AND DEPTH FOR RIPRAP PLACEMENT SHALL BE AS SPECIFIED IN THESE DETAILS UNLESS OTHERWISE SPECIFIED IN THE PLANS.

THE RIPRAP FOR THE ENERGY DISSIPATOR SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD FOR **STONE DUMPED RIPRAP**.

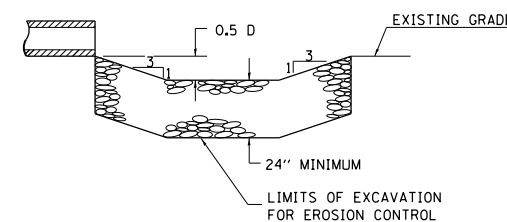
THE STONE DUMPED RIPRAP SHALL CONFORM TO THE QUALITY AND GRADATION REQUIREMENTS OF STONE RIPRAP, CLASS A4.

BEDDING MATERIAL AS SPECIFIED IN SECTION 281 OF THE STANDARD SPECIFICATIONS WILL NOT BE REQUIRED.



D= INSIDE DIAMETER OF PIPE CULVERT OR CLEAR HEIGHT OF BOX CULVERT

PLAN



SECTION A-A

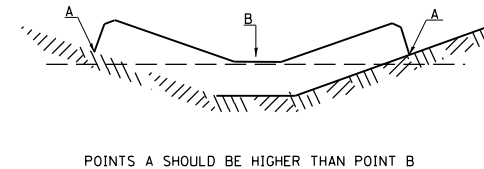
REVISIONS

REDRAWN	2-15-89
REVISED	11-3-93
REVISED	8-15-94
REVISED	12-14-01

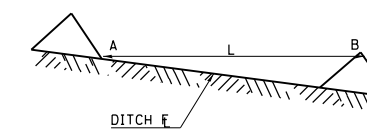
STD. 9-6

TEMPORARY DITCH CHECKS

PLACEMENT OF TEMPORARY DITCH CHECK IN DRAINAGE WAY



SPACING BETWEEN TEMPORARY DITCH CHECKS



L = THE DISTANCE SUCH THAT POINTS A AND B ARE OF EQUAL ELEVATION
B = THE LOW POINT IN CENTER OF CHECK

REVISIONS	
DRAWN	9-01-99
REVISED	10-3-01
RESIZED	
REVISED	05-04-10

STD. 9-108

FILE NAME =	USER NAME = \$USER\$	DESIGNED - CK	REVISED -
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	PLOT DATE = 12/14/2012	DATE - 7/6/2012	REVISED -

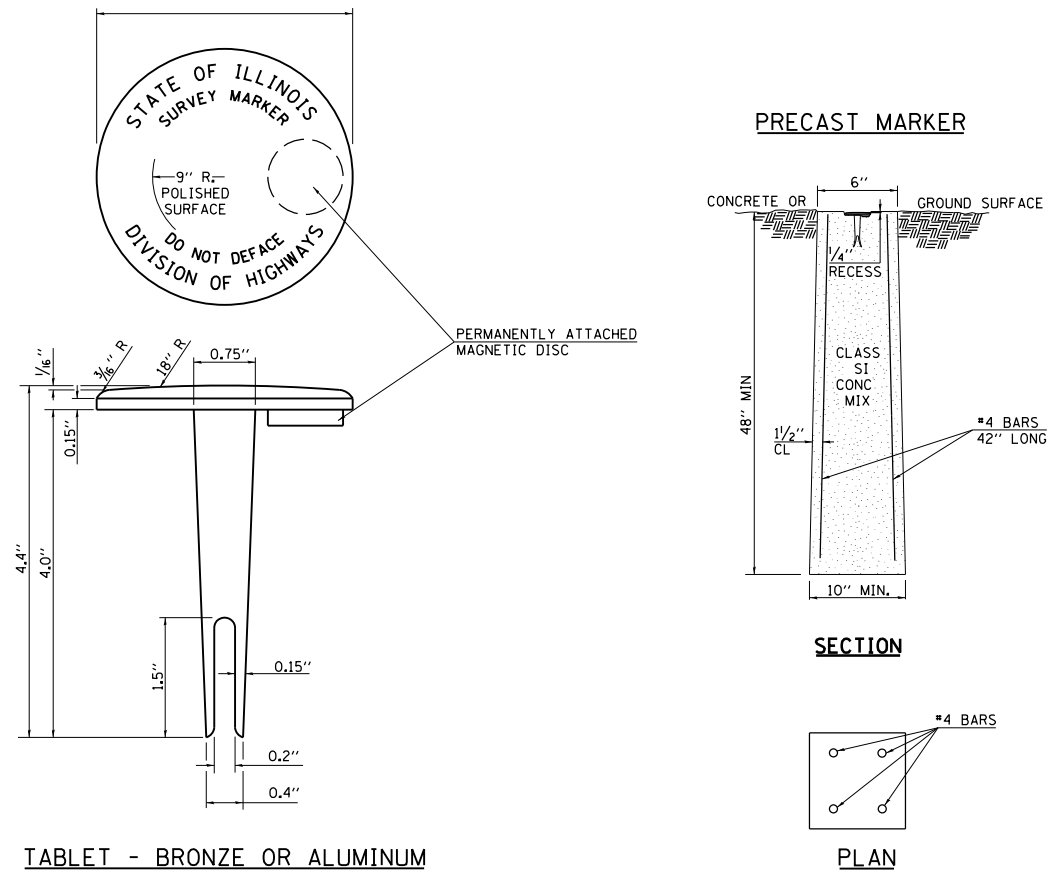
CH2MHILL

DISTRICT DETAILS
9-1, 9-6, 9-108

SCALE: SHEET NO. 1 OF 4 SHEETS STA. TO STA.

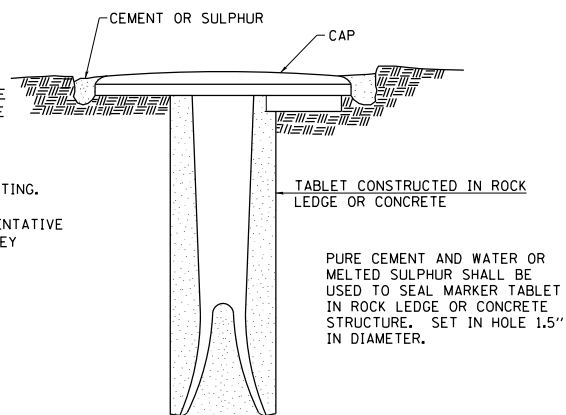
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
331	(1-3)R-3	WILLIAMSON	58	40
DRAWING NO.		CONTRACT NO. 78259		
ILLINOIS FED. AID PROJECT				

DETAILS OF PERMANENT SURVEY MARKERS



NOTES

- ACTUAL LOCATIONS TO BE DETERMINED BY THE ENGINEER AND A REPRESENTATIVE FROM THE BUREAU OF DESIGN AFTER GRADING IS COMPLETE AND SIGHT DISTANCE CAN BE DETERMINED BETWEEN SURVEY MARKER LOCATIONS.
- THE MARKERS SHALL BE PRECAST AND SHALL BE INSTALLED IN A WORKMANLIKE MANNER IN ORDER THAT THERE BE NO FUTURE SETTLEMENT OR HORIZONTAL SHIFTING. THE MONUMENT SHALL BE PLACED IN A WAY THAT THE SURVEY POINT WILL FALL WITHIN THE PORTION OF THE PLAQUE PROVIDED FOR THAT PURPOSE. A REPRESENTATIVE FROM THE BUREAU OF PROGRAM DEVELOPMENT WILL LOCATE AND ETCH THE SURVEY POINT ON THE TABLET.
- THE CONTRACT UNIT PRICE FOR **PERMANENT SURVEY MARKERS, TYPE II** WILL BE PAYMENT IN FULL FOR FURNISHING AND INSTALLING THE MARKER.

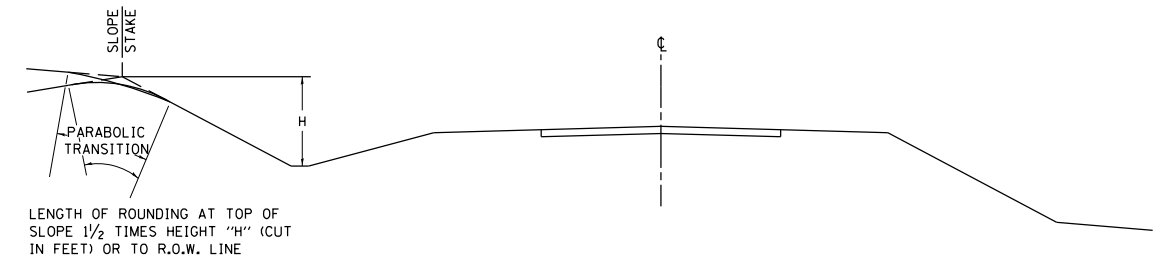


REVISIONS	
REDRAWN	2-15-89
REVISED	5-11-89
REVISED	8-18-94
REVISED	10-3-94

STD. 9-10

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

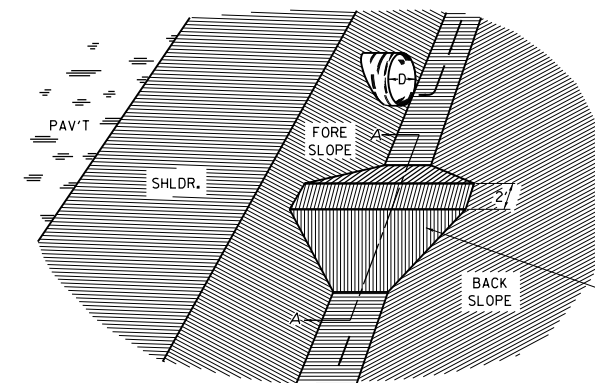
TYPICAL SECTIONS OF TRANSITIONS OF SLOPES AND INCIDENTAL GRADING



SECTION SHOWING TRANSITIONS OF PROPOSED SLOPES

NOTE:

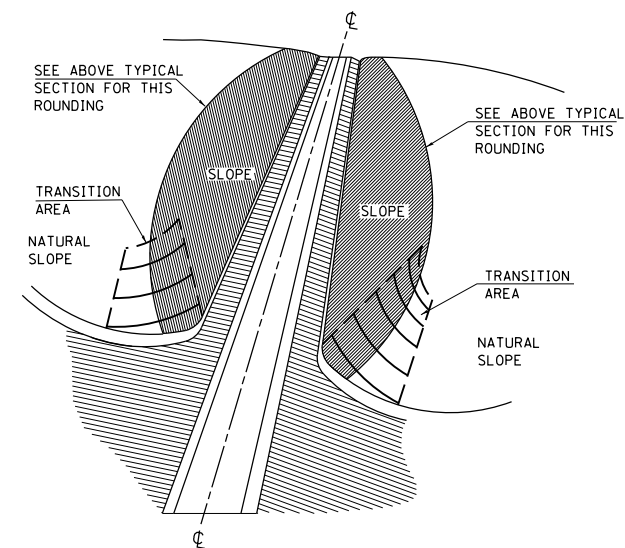
DITCH PLUG TO BE CONSTRUCTED AS DIRECTED BY THE ENGINEER, INCLUDED IN THE EARTH EXCAVATION



DITCH PLUG DETAIL

SECTION A-A

EARTH DITCH PLUG TO BE CONSTRUCTED AT LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER, AND TO BE CONSIDERED INCLUDED IN THE EARTH EXCAVATION.



DETAIL OF SLOPE TO NATURAL GROUND TRANSITION

TRANSITION GRADING

TRANSITION GRADING BETWEEN CUT AND FILL SLOPES AND BETWEEN CUT SLOPES AND NATURAL GROUND WILL BE REQUIRED ON THIS IMPROVEMENT. THE TRANSITION SHALL BE ROUNDED AND STREAMLINED IN ORDER TO BLEND THE CUT SLOPES AND THE FILL SLOPES INTO EACH OTHER AND INTO THE ADJACENT TERRAIN. THE SLOPES AS SHOWN ON THE CROSS SECTIONS IN THESE PLANS MAY BE VARIED SOMEWHAT IN THE TRANSITION AREAS AS DIRECTED BY THE ENGINEER IN ORDER TO MEET THIS GRADING REQUIREMENT. THE QUANTITIES OF EARTH EXCAVATION INVOLVED ARE INCLUDED IN THE BALANCE QUANTITIES SHOWN ON THE PLANS AND NO OTHER COMPENSATION WILL BE ALLOWED.

REVISIONS	
REDRAWN	2-15-89
REVISED	
REVISED	
REVISED	

STD. 9-17

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	PLOT DATE = 12/14/2012	DATE - 7/6/2012	REVISED -

CH2MHILL

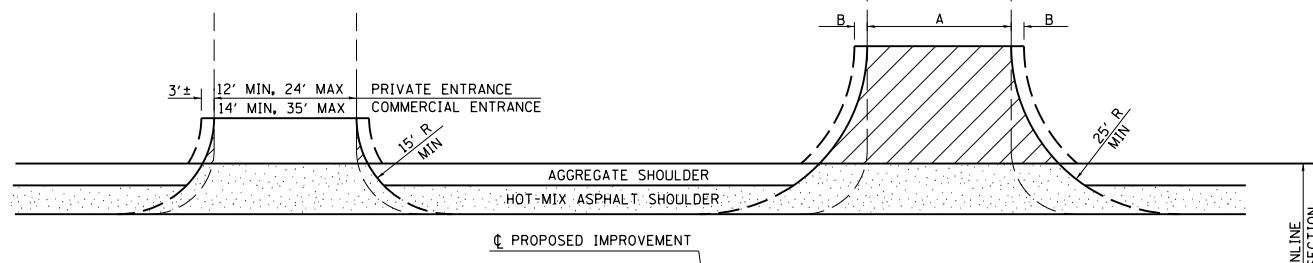
DISTRICT DETAILS
9-10, 9-17

SCALE: SHEET NO. 2 OF 4 SHEETS STA. TO STA.

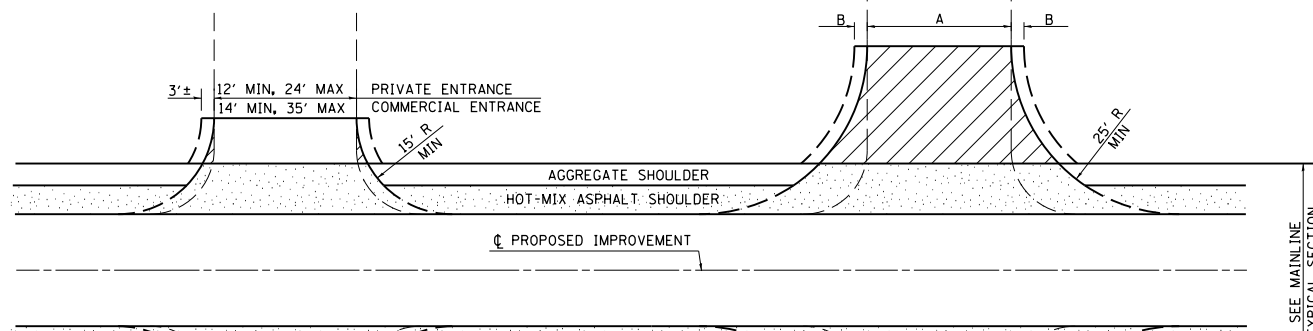
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
331	(1-3)R-3	WILLIAMSON	58	41
DRAWING NO.		CONTRACT NO. 78259		
ILLINOIS FED. AID PROJECT				

RURAL SIDE APPROACH DETAILS

PRIVATE AND COMMERCIAL ENTRANCES



SIDEROADS



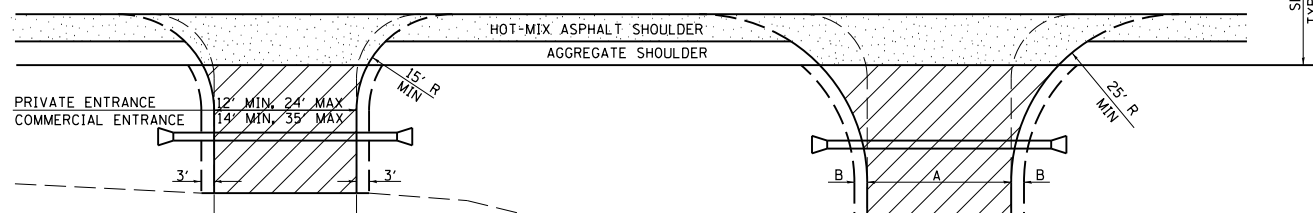
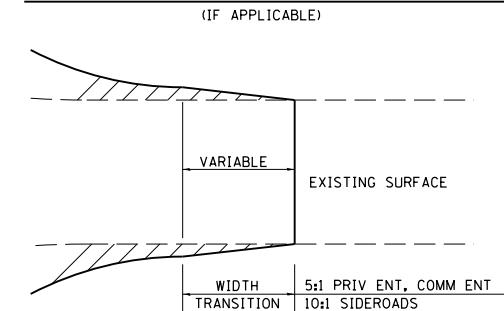
SIDEROAD DIMENSIONS (MIN.)

ADT	A (FT)	B (FT)
0 TO 250	18'	2'
250 TO 400	20'	2'
GREATER THAN 400	22'	4'

FIELD ENTRANCE TREATMENT

CONSTRUCT MAINLINE HOT-MIX ASPHALT AND AGGREGATE SHOULDERS THROUGH FIELD ENTRANCES.
IF A PIPE IS REQUIRED, PROVIDE A 22' WIDE EARTH EMBANKMENT WITH 15' RADII AT THE INTERSECTION.

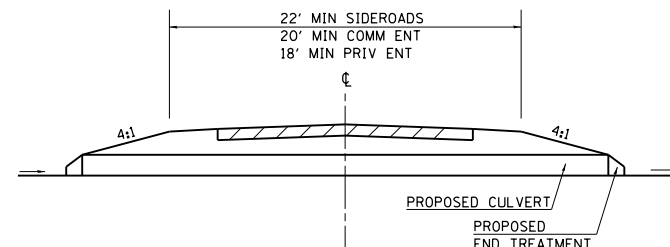
WIDTH TRANSITION DETAIL TO EXISTING



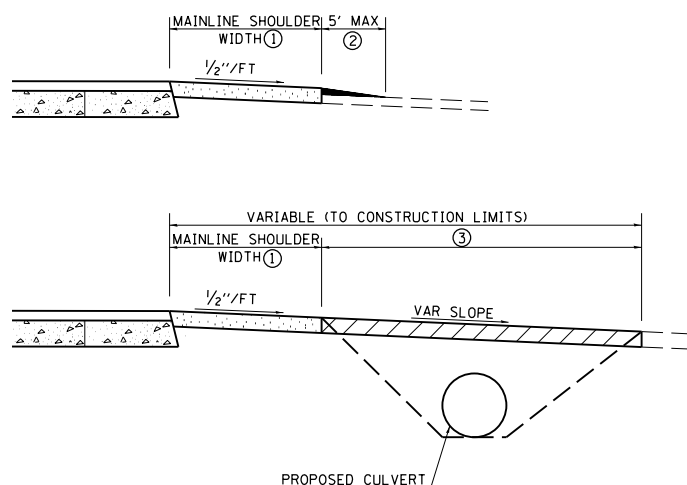
PRIVATE AND COMMERCIAL ENTRANCES (PROPOSED CULVERT)

SIDEROADS (PROPOSED CULVERT)

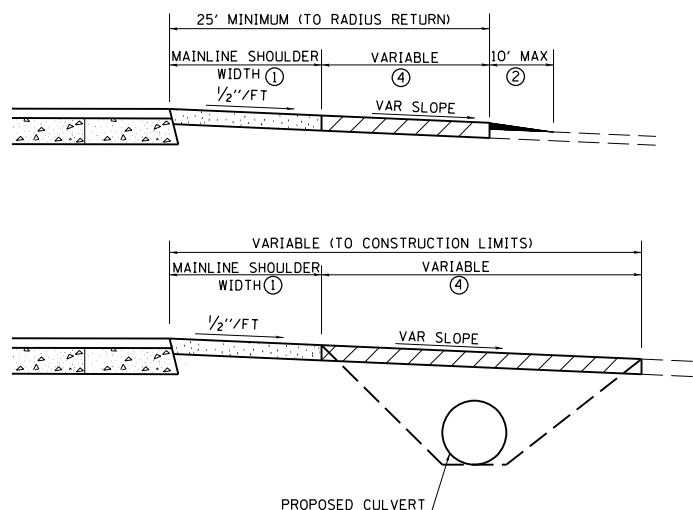
DETAIL FOR CALCULATING CULVERT LENGTH



PRIVATE AND COMMERCIAL ENTRANCES



SIDEROADS



LEGEND

- ① CONSTRUCT HOT-MIX ASPHALT SHOULDER "FULL SHOULDER WIDTH" THROUGH ENTRANCE/INTERSECTION UNLESS OTHERWISE SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- ② IF REQUIRED, AGGREGATE TAPER FOR EXISTING GRAVEL SURFACE; HOT-MIX ASPHALT TAPER FOR EXISTING HIGHER TYPE SURFACES.
- ③ 6" AGGREGATE SURFACE COURSE FOR EXISTING GRAVEL SURFACE; 2" HOT-MIX ASPHALT RESURFACING ON 4" AGGREGATE BASE COURSE FOR EXISTING HOT-MIX ASPHALT SURFACE; PCC DRIVEWAY PAVEMENT (6" - PE; 7" - CE) FOR EXISTING CONCRETE SURFACE.
- ④ 3" MINIMUM HOT-MIX ASPHALT RESURFACING ON 8" MINIMUM AGGREGATE BASE COURSE FOR EXISTING GRAVEL SURFACE OR OIL & CHIP SURFACE; MATCH EXISTING FOR EXISTING HIGHER TYPE SURFACES.

GENERAL NOTES

1. ENTRANCE LOCATIONS ARE TO COMPLY WITH IDOT'S POLICY "ACCESS TO STATE HIGHWAYS".
2. IN GENERAL, RELOCATED PRIVATE ENTRANCES ARE TO HAVE A 16' WIDE SURFACE WITH 3' WIDE SHOULDERS (22' WIDE EMBANKMENT).
3. SEE PLANS FOR PROPOSED PROFILE GRADES AT ENTRANCES/SIDEROADS. THE DESIRABLE MAXIMUM PROFILE GRADE FOR ENTRANCES ARE 12% FOR PE; 10% FOR CE.
4. ENTRANCE PIPE CULVERTS ARE TO BE A MINIMUM 15" DIAMETER AND NORMALLY REPLACED IN KIND; SIDEROAD PIPE CULVERTS ARE GENERALLY TO BE CONCRETE (18" MINIMUM DIAMETER).
5. THE INTERSECTION RADII OF SIDEROADS CONSTRUCTED TO FULL POLICY STANDARDS SHOULD COMPLY WITH THAT NOTED IN THE BUREAU OF LOCAL ROADS ADMINISTRATIVE POLICIES MANUAL (5-8-13).

REVISIONS

DRAWN	3-15-91
REVISED	10-02-91
REVISED	5-15-92
REVISED	1-20-00
REVISED	01-11-07
RESIZED	5-7-08

STD. 9-83

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	PLOT DATE = 12/14/2012	DATE - 7/6/2012	REVISED -

CH2MHILL

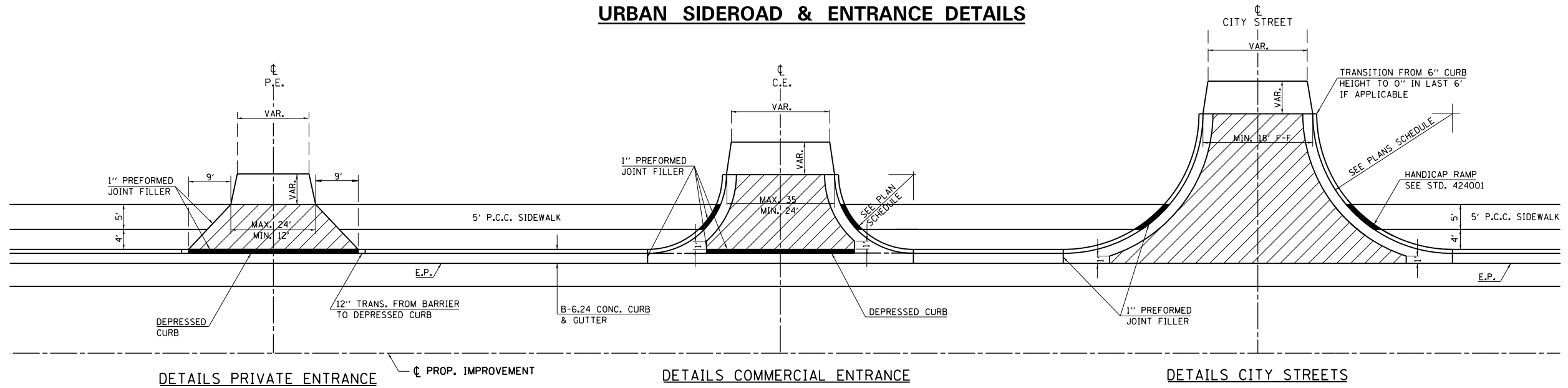
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT DETAILS
9-83**

SCALE: SHEET NO. 3 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
331	(1-3)R-3	WILLIAMSON	58	42
DRAWING NO.			CONTRACT NO. 78259	
ILLINOIS FED. AID PROJECT				

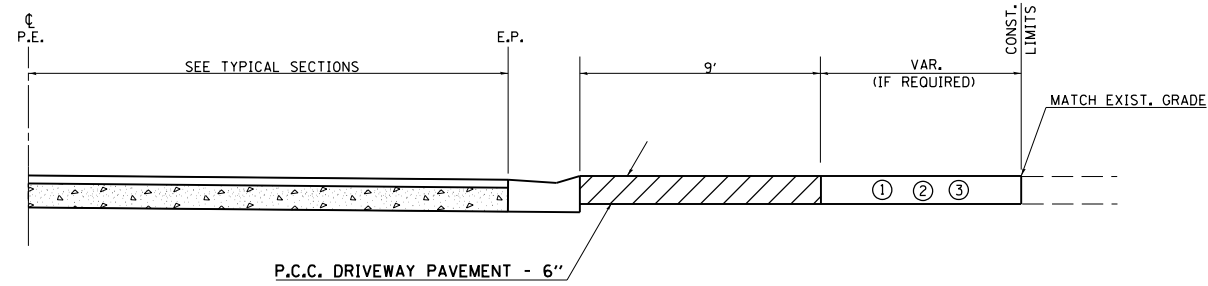
URBAN SIDEROAD & ENTRANCE DETAILS



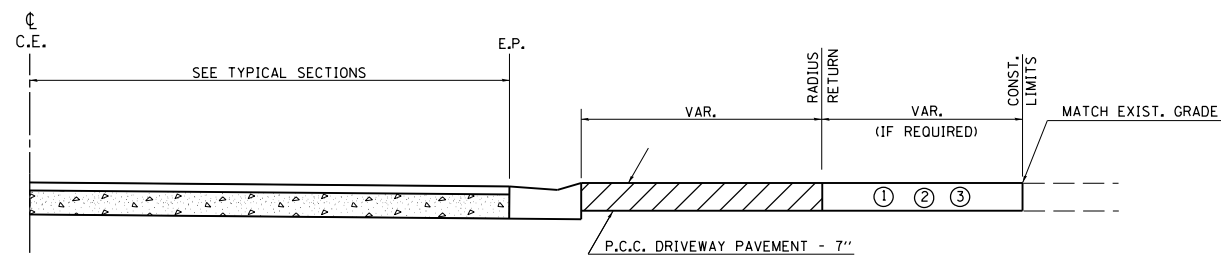
DETAILS PRIVATE ENTRANCE

DETAILS COMMERCIAL ENTRANCE

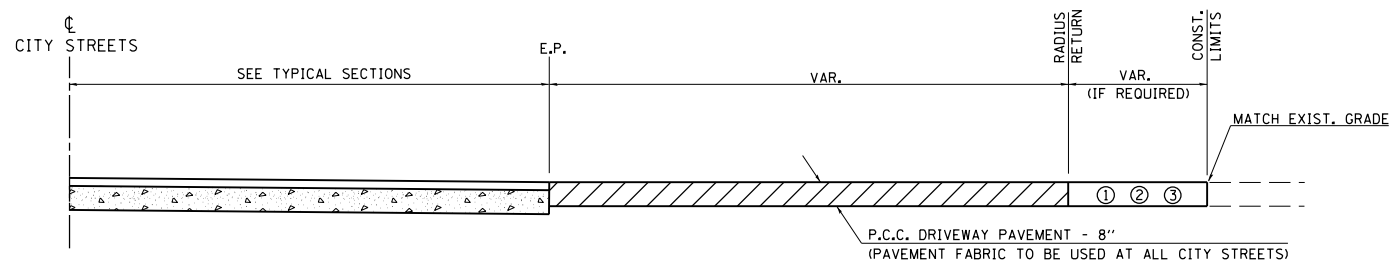
DETAILS CITY STREETS



PROFILE OF PRIVATE ENTRANCES



PROFILE OF COMMERCIAL ENTRANCES



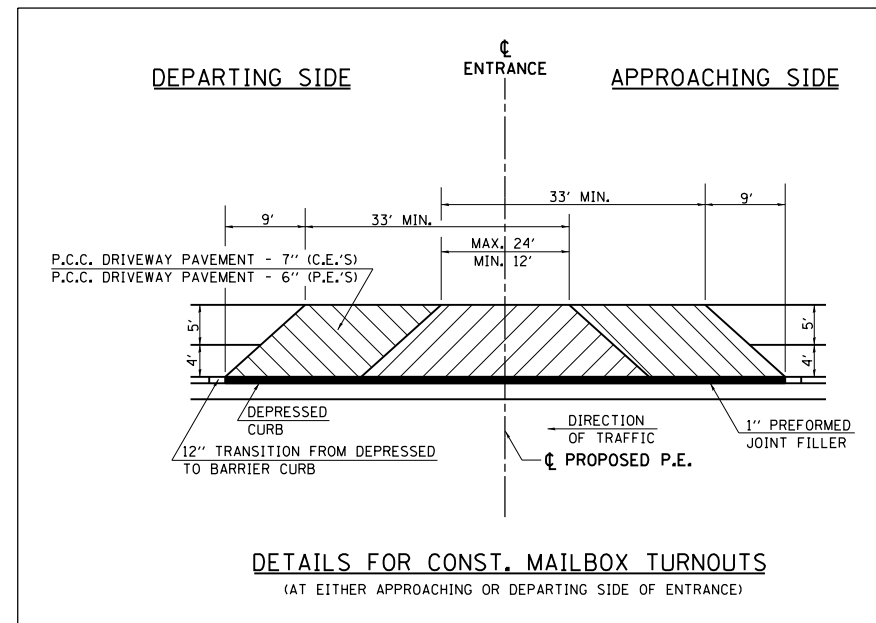
PROFILE OF CITY STREETS

GENERAL NOTES

1. SEE PLAN SCHEDULES FOR DIMENSIONS AND QUANTITIES.
2. SEE CROSS SECTIONS FOR PROPOSED PROFILE OF SIDEROAD AND ENTRANCES.
3. IN GENERAL, WIDTH TRANSITION TAPER RATES ARE TO BE 5:1 FOR ENTRANCES, AND 10:1 FOR CITY STREETS.
4. THE SAWING OF ALL JOINTS IN PCC DRIVEWAY PAVEMENT AT ALL LOCATIONS DESIGNATED BY THE ENGINEER, SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE PCC DRIVEWAY PAVEMENT.

LEGEND

- ① EXISTING AGGREGATE SURFACE:
CONSTRUCT AGGREGATE SURFACE CSE, TYPE A WEDGE TO MATCH EXISTING GRADE.
- ② EXISTING BITUMINOUS SURFACE:
USE 2" MIN. BITUMINOUS RESURFACING ON 4" MIN. (6" MIN. FOR CITY STREETS) AGGREGATE BASE COURSE.
- ③ EXISTING CONCRETE SURFACE:
P.C.C. DRIVEWAY PAVEMENT 6" P.E.'S
P.C.C. DRIVEWAY PAVEMENT 7" C.E.'S
P.C.C. DRIVEWAY PAVEMENT 8" CITY STREETS



DETAILS FOR CONST. MAILBOX TURNOUTS
(AT EITHER APPROACHING OR DEPARTING SIDE OF ENTRANCE)

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	PLOT DATE = 12/14/2012	DATE - 7/6/2012	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DISTRICT DETAILS	
9-84	
SCALE:	SHEET NO. 4 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
331	(1-3)R-3	WILLIAMSON	58	43
DRAWING NO.		CONTRACT NO. 78259		
ILLINOIS FED. AID PROJECT				

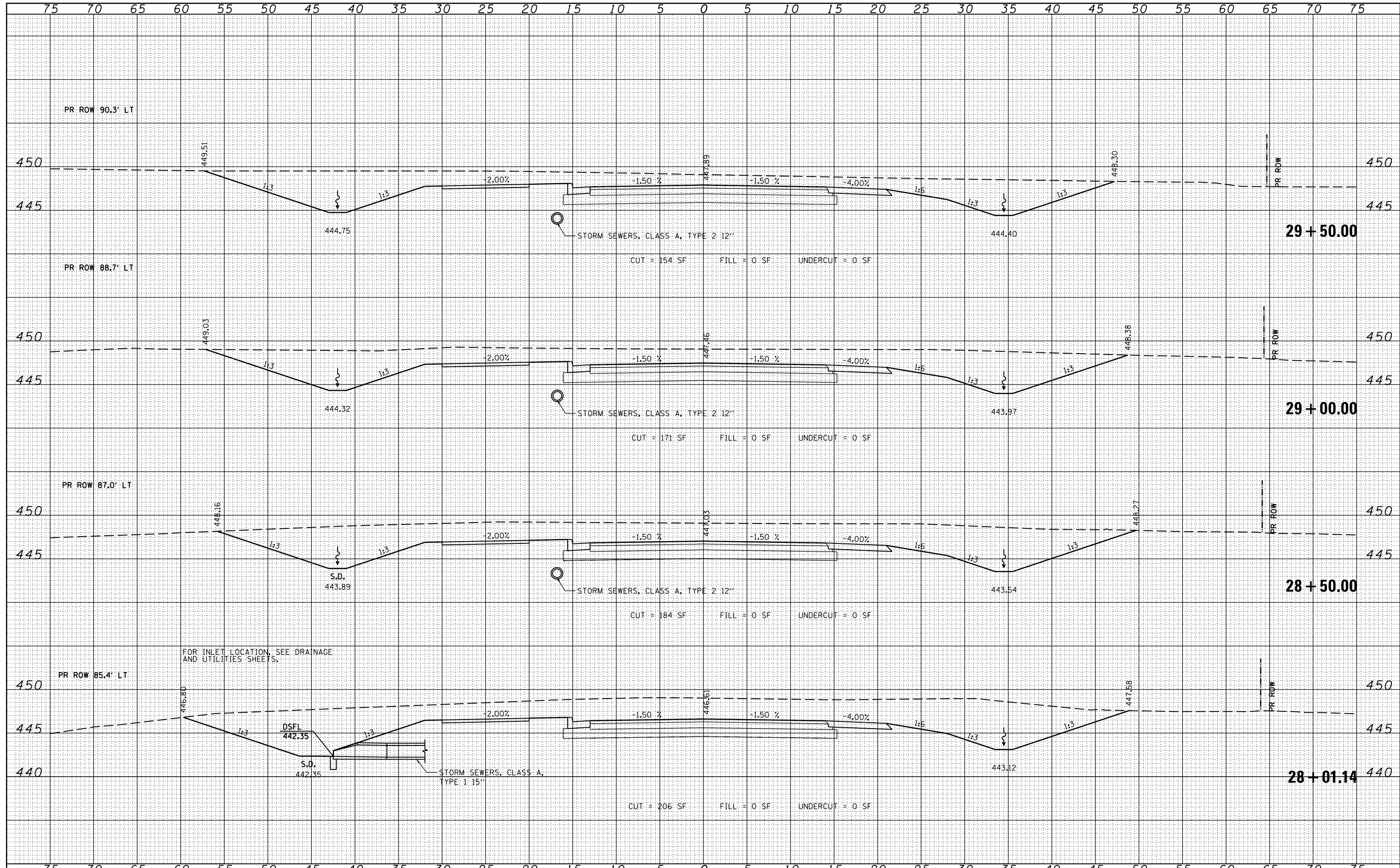
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REVISED	9-6-91
REVISED	10-21-91
REVISED	



STD. 9-84

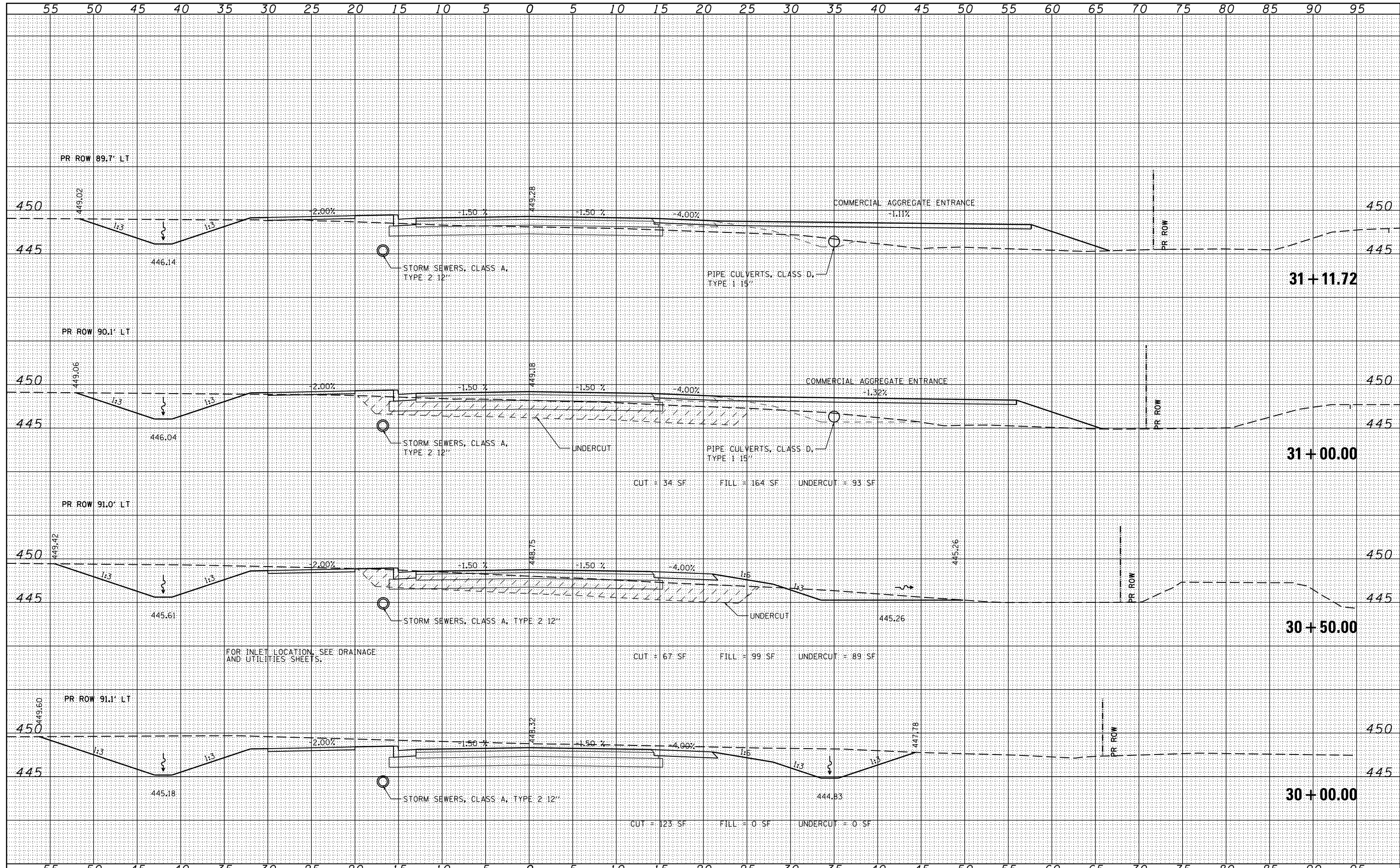
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NOTE BOOK	PLOTTED
NO.	TEMPLATE
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DATE	
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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED



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ORIGINAL SURVEY	
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PLATE	
AREAS CHECKED	
AREAS CHECKED	

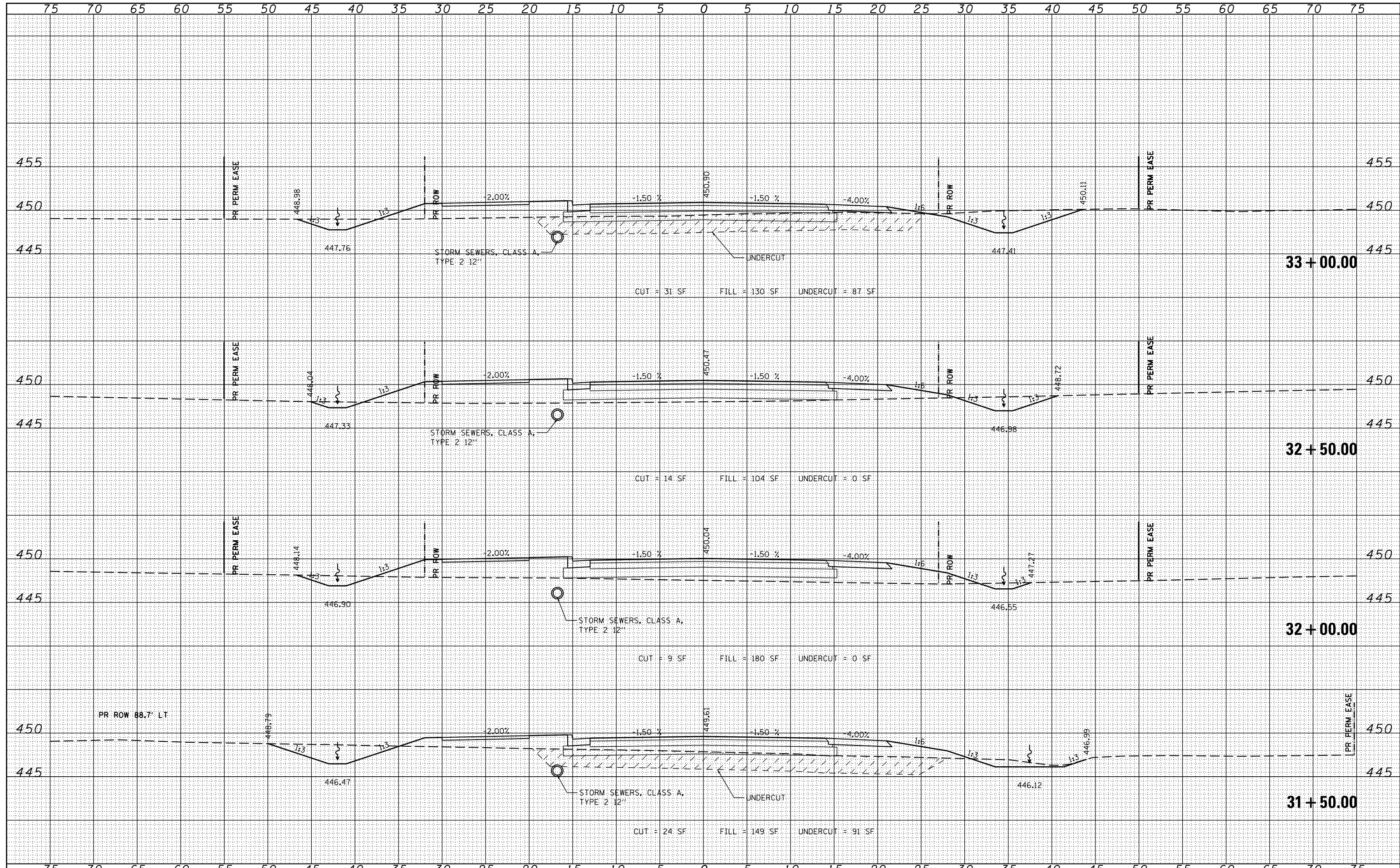
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ORIGINAL SURVEY	
NOTED BOOK	
PLATE	
AREAS CHECKED	
AREAS CHECKED	



FILE NAME =	USER NAME = sUsers	DESIGNED - CK	REVISIED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED CROSS SECTIONS NORTH FRONTAGE ROAD		F.A.P. R.T.E. 331	SECTION (1-3)R-3	COUNTY WILLIAMSON	TOTAL SHEETS 58	SHEET NO. 45	
CH2MHILL	es:\pw\work\p\dot\colemm\d0265445\0978259-sh\ssht-Nor th-Frontage.dgn	DRAWN - MP	REVISIED -		SCALE:	SHEET NO. 2 OF 15 SHEETS	STA. 30+00.00 TO STA. 31+11.72	DRAWING NO.	CONTRACT NO. 78259	ILLINOIS FED. AID PROJECT		
	PLOT SCALE = 10.0000 "/td> <td>CHECKED - DM</td> <td>REVISIED -</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	CHECKED - DM	REVISIED -									
	PLOT DATE = 2/22/2013	DATE - 7/6/2012	REVISIED -									

DATE	
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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

DATE	
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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED



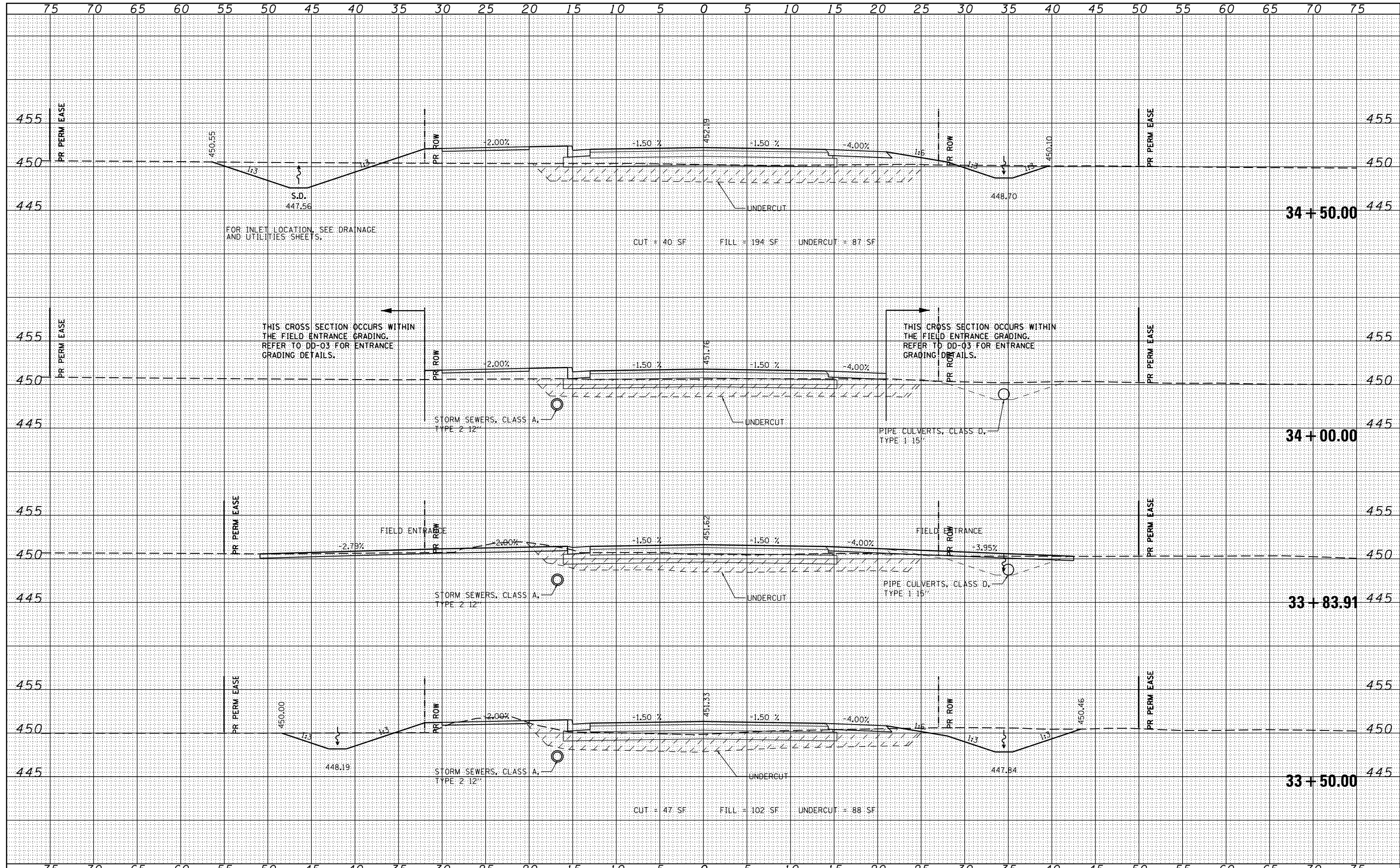
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es:\pw\work\p\dot\colemm\d0265445\0978259-sh\ssht-North-Frontage.dgn	DRAWN - MP	REVISED -	331			(1-3)R-3	WILLIAMSON	58	46	
PLOT SCALE = 10.0000' / in.	CHECKED - DM	REVISED -	DRAWING NO.			CONTRACT NO.		78259		
PLOT DATE = 2/22/2013	DATE - 7/6/2012	REVISED -	SCALE:			SHEET NO. 3 OF 15 SHEETS		STA. 31+50.00 TO STA. 33+00.00		

CH2MHILL

ILLINOIS FED. AID PROJECT

DATE	
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ORIGINAL SURVEY	
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NOTE BOOK	
AREAS CHECKED	



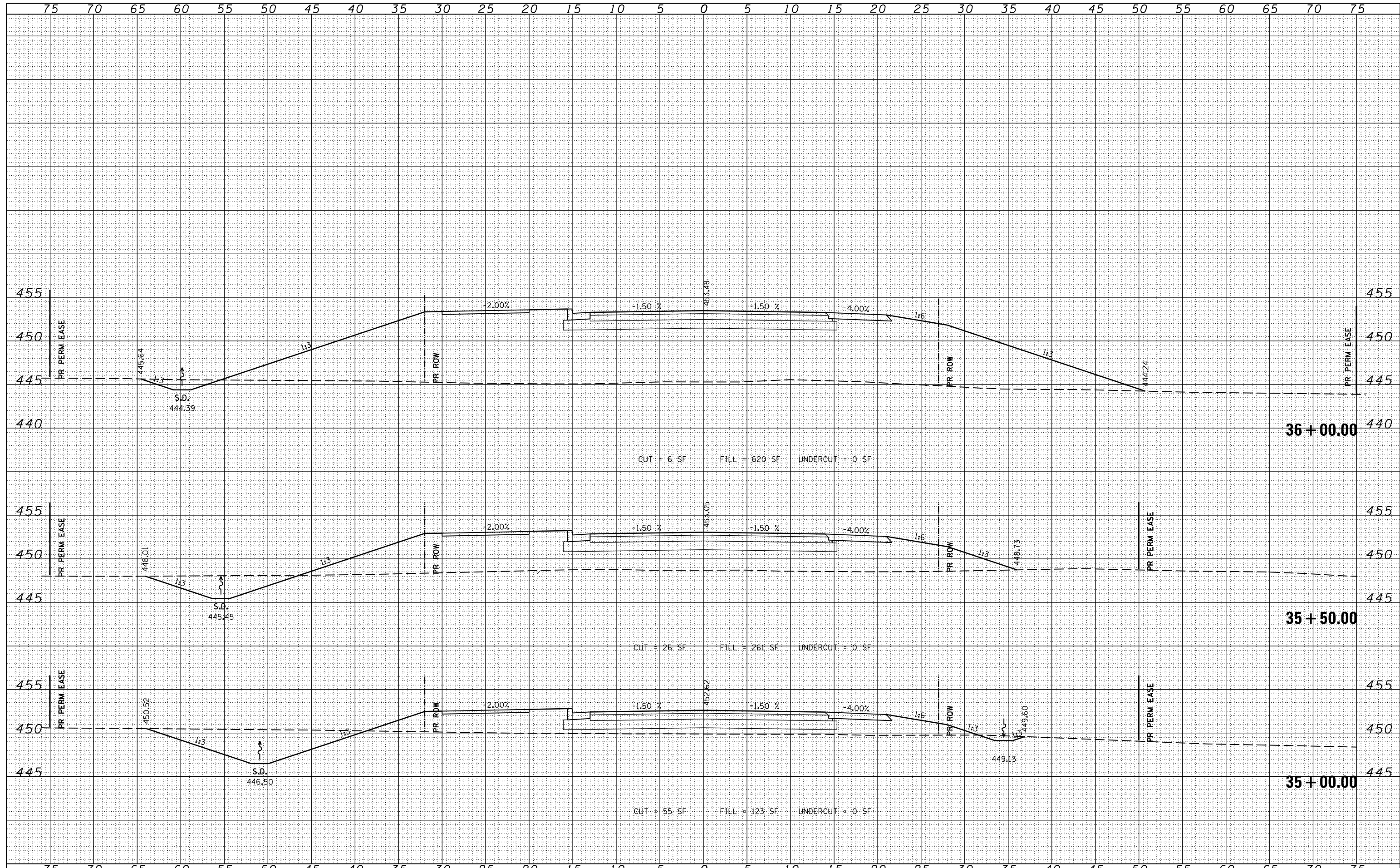
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es:\pw\work\p\dot\collem\0265445\0978259-sh\ssht-Nor th-Frontage.dgn		DRAWN - MP	REVISED -		331	(1-3)R-3	WILLIAMSON	58	47		
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PLOT DATE = 2/22/2013		DATE - 7/6/2012	REVISED -		SCALE:		SHEET NO. 4 OF 15 SHEETS		STA. 33+50.00 TO STA. 34+50.00		

CH2MHILL

ILLINOIS FED. AID PROJECT

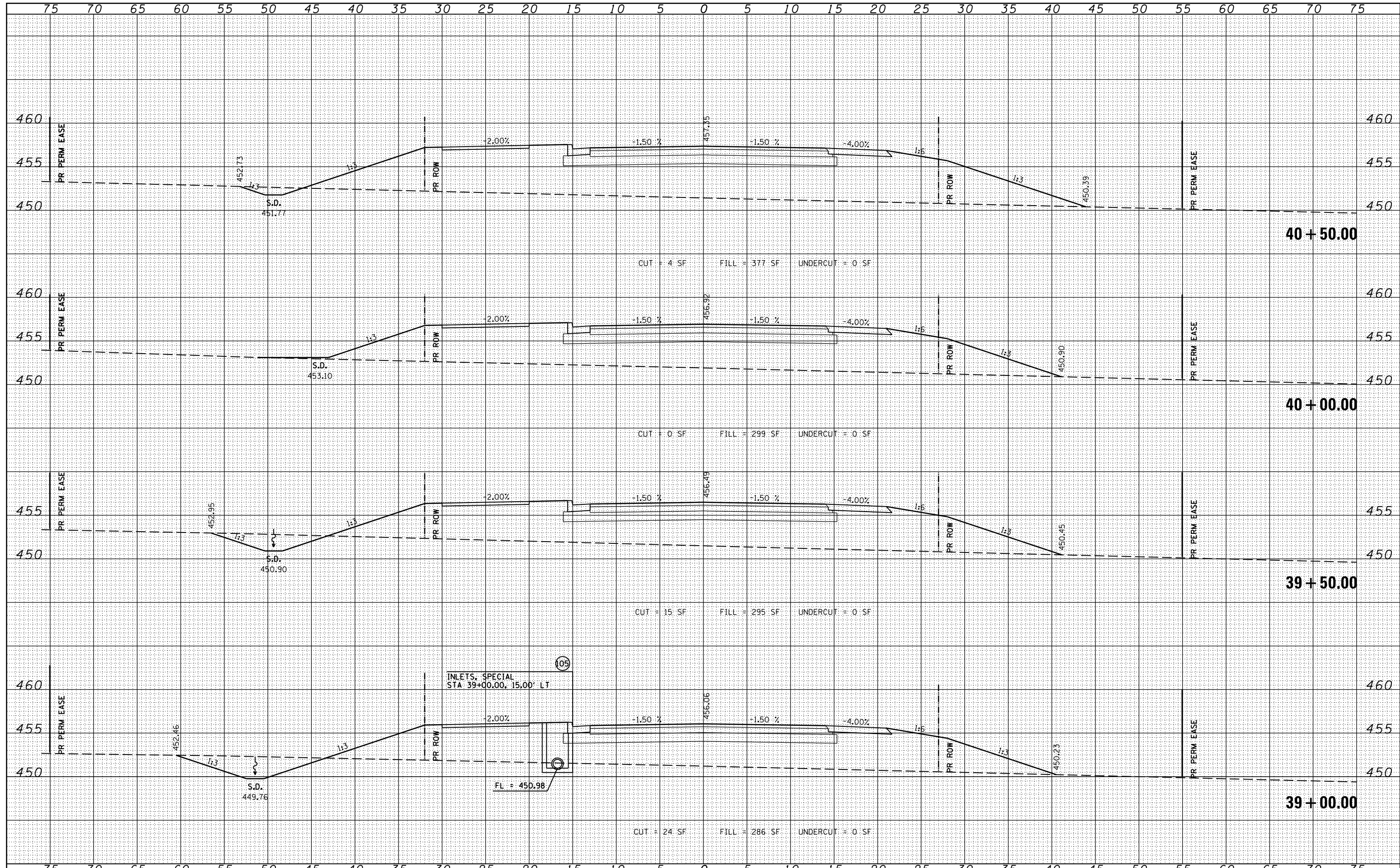
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NOTE BOOK	PLOTTED
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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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FINAL SURVEY	SURVEYED
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ORIGINAL SURVEY	SURVEYED
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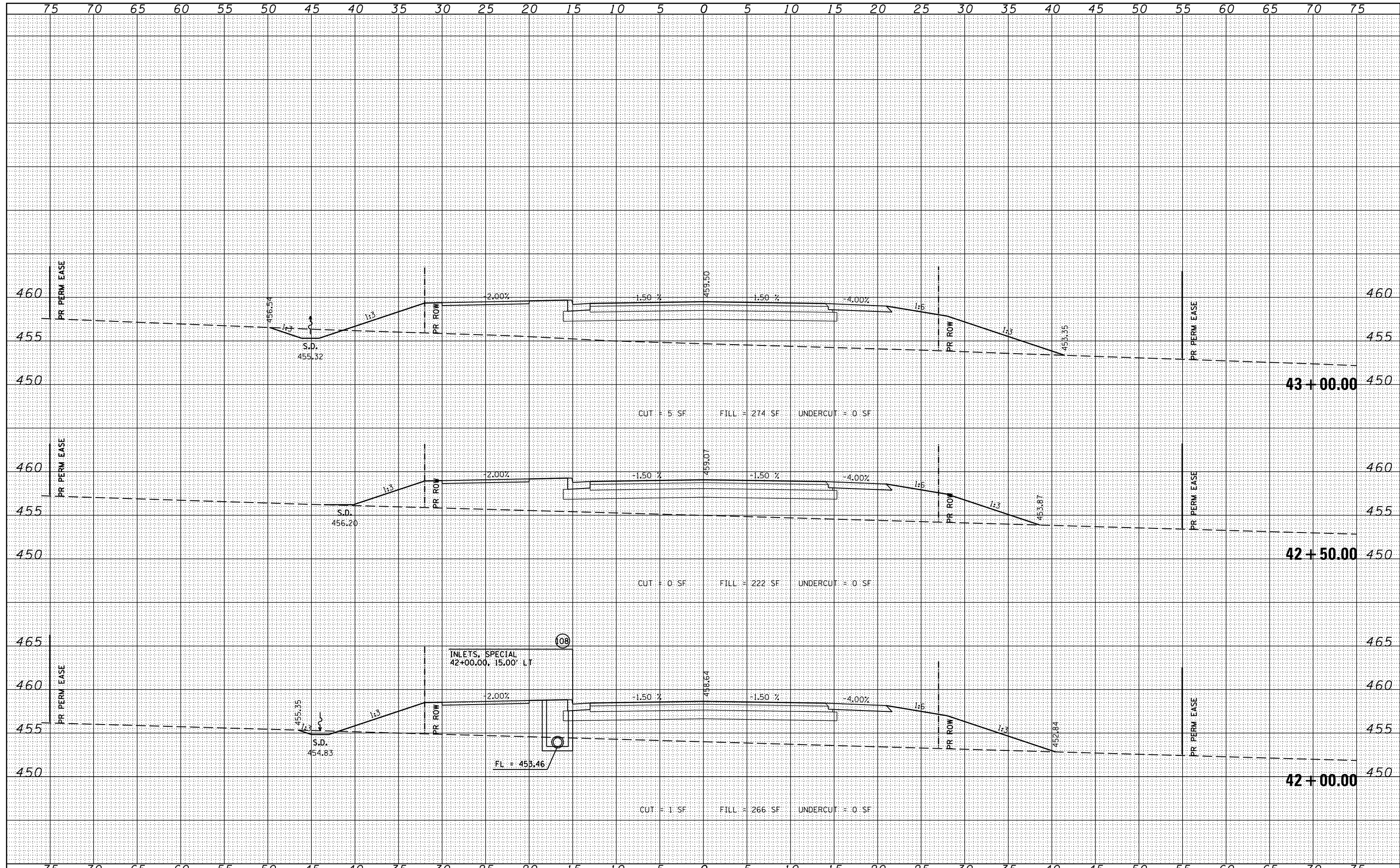


FILE NAME =	USER NAME = susers	DESIGNED - CK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED CROSS SECTIONS NORTH FRONTAGE ROAD		F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT SCALE = 10.0000' / in.		CHECKED - DM	REVISED -		DRAWING NO.		CONTRACT NO.		78259		
PLOT DATE = 2/22/2013		DATE - 7/6/2012	REVISED -		SCALE:		SHEET NO. 8 OF 15 SHEETS		STA. 39+00.00 TO STA. 40+50.00		



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ORIGINAL SURVEY	
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FILE NAME =
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 DATE - 7/6/2012

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PROPOSED CROSS SECTIONS
 NORTH FRONTAGE ROAD**

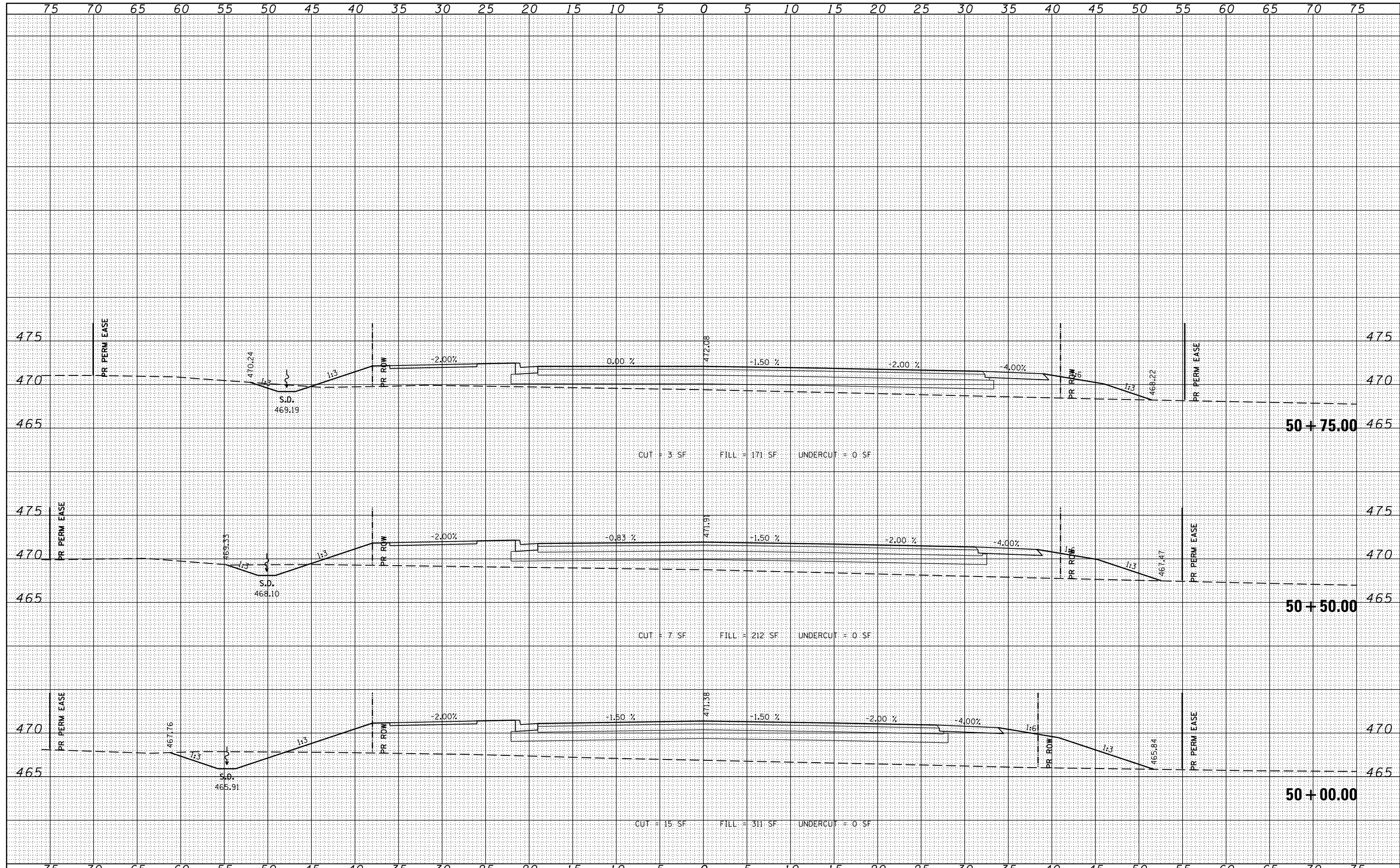
SCALE: SHEET NO. 10 OF 15 SHEETS STA. 42+00.00 TO STA. 43+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
331	(1-3)R-3	WILLIAMSON	58	53
DRAWING NO.		CONTRACT NO. 78259		
ILLINOIS FED. AID PROJECT				



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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED
	AREAS CHECKED



FILE NAME =	USER NAME = sUsers	DESIGNED - CK	REVISIED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED CROSS SECTIONS NORTH FRONTAGE ROAD		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
es:\pw\work\p\dot\colemm\d0265445\0978259-sh	ssht-Nor th-Frontage.dgn	DRAWN - MP	REVISIED -		331	(1-3)R-3	WILLIAMSON	58	58		
CH2MHILL	PLOT SCALE = 10.0000' / in.	CHECKED - DM	REVISIED -		DRAWING NO.		CONTRACT NO.		78259		
	PLOT DATE = 2/22/2013	DATE - 7/6/2012	REVISIED -		SCALE:		SHEET NO. 15 OF 15 SHEETS		STA. 50+00.00 TO STA. 50+75.00		

ILLINOIS FED. AID PROJECT