

ITEM NO. 8A

TOTAL NUMBER OF SHEETS = 38
CONTRACT NO. = MR020

THE CITY OF MORRIS, ILLINOIS
MORRIS MUNICIPAL AIRPORT
JAMES R. WASHBURN FIELD

CONSTRUCTION PLANS
FOR
CONSTRUCT ACCESS ROAD AND BRIDGE
ILLINOIS PROJECT NO. C09-4255
A.I.P. PROJECT NO. 3-17-0071-B18

LATITUDE 41°-25'-31.8" LONGITUDE 88°-25'-7.2"
ELEVATION 585.01

DATE: DECEMBER 2012
RUNWAY CATEGORY B, GROUP II

SUMMARY OF QUANTITIES				
ITEM	DESCRIPTION	UNIT	ESTIMATED QUANTITY	RECORD QUANTITY
AR 150510	ENGINEER'S FIELD OFFICE	L.S.	1	0
AR 151450	CLEARING & GRUBBING	ACRE	0.31	0
AR 152410	UNCLASSIFIED EXCAVATION	C.Y.	39,200	0
AR 152540	SOIL STABILIZATION FABRIC	S.Y.	8,067	0
AR 156510	SILT FENCE	L.F.	7,680	0
AR 156511	DITCH CHECK	EACH	85	0
AR 156531	EROSION CONTROL BLANKET	S.Y.	20,137	0
AR 156544	RIPRAP - GRADATION NO. 4	S.Y.	712	0
AR 209606	CRUSHED AGGREGATE BASE COURSE - 6"	S.Y.	7,663	0
AR 209610	CRUSHED AGGREGATE BASE COURSE - 10"	S.Y.	66	0
AR 209613	CRUSHED AGGREGATE BASE COURSE - 13"	S.Y.	338	0
AR 701430	30" RCP, CLASS III	L.F.	64	0
AR 701512	12" RCP, CLASS IV	L.F.	312	0
AR 701515	15" RCP, CLASS IV	L.F.	48	0
AR 701518	18" RCP, CLASS IV	L.F.	108	0
AR 701524	24" RCP, CLASS IV	L.F.	56	0
AR 752412	PRECAST REINFORCED CONC. FES 12"	EACH	22	0
AR 752415	PRECAST REINFORCED CONC. FES 15"	EACH	2	0
AR 752418	PRECAST REINFORCED CONC. FES 18"	EACH	4	0
AR 752424	PRECAST REINFORCED CONC. FES 24"	EACH	2	0
AR 752430	PRECAST REINFORCED CONC. FES 30"	EACH	2	0
AR 801325	RAP AGGREGATE SURFACE, 3"	S.Y.	8,067	0
AR 801326	STOP SIGN AND POST	EACH	1	0
AR 801327	TRAFFIC CONTROL	L.S.	1	0
AR 801328	CONCRETE STRUCTURES	C.Y.	45.4	0
AR 801329	CONCRETE ENCASEMENT	C.Y.	4.8	0
AR 801330	PRECAST PRESTRESSED CONCRETE DECK BEAMS (33" DEPTH)	S.F.	2,315	0
AR 801331	REINFORCEMENT BARS, EPOXY COATED	LB.	3,860	0
AR 801332	STEEL RAILING, TYPE SM	L.F.	168	0
AR 801333	FURNISHING STEEL PILES HP 12x53	L.F.	372	0
AR 801334	DRIVING PILES	EACH	2	0
AR 801335	TEST PILE STEEL HP 12X53	EACH	1	0
AR 801336	NAME PLATES	EACH	1	0
AR 90510	SEEDING	ACRE	7.6	0
AR 90510	MULCHING	ACRE	3.8	0

STANDARDS

- BLR 21-9 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
- 701001-02 OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
- 701006-04 OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
- 701201-04 LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
- 701901-02 TRAFFIC CONTROL DEVICES

INDEX OF SHEETS

PAGE NO.	DESCRIPTION
1	COVER SHEET
2	CONSTRUCTION SAFETY PLAN
3	DIMENSIONAL LAYOUT PLAN & TYPICAL SECTIONS
4-10	DETAILS
11-12	EROSION CONTROL PLAN
13-19	PLAN & PROFILES
20-21	DITCH GRADING PLAN
22-31	BRIDGE PLANS & DETAILS
32-38	CROSS SECTIONS

BENCHMARK DATA

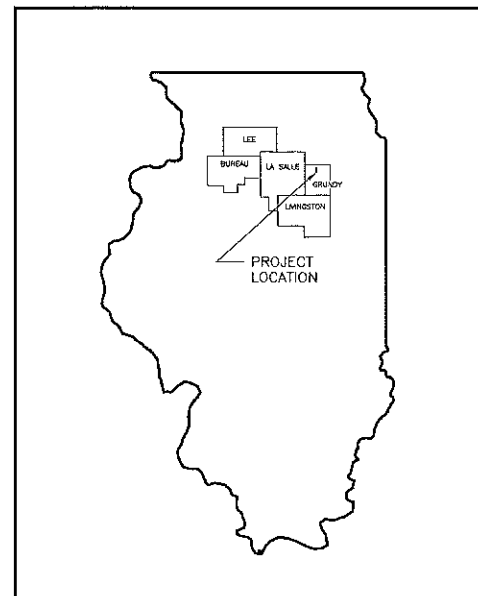
DESCRIPTION	ELEVATION METRIC	ELEVATION ENGLISH
S.E. CORNER OF CONCRETE BASE FOR OLD WIND SOCK AT OFFICE BLDG.	179.558	(589.10)
BRASS PLUG IN WEST WALL @ GRACE LUTH. CHURCH	179.783	(589.84)

DESCRIPTION

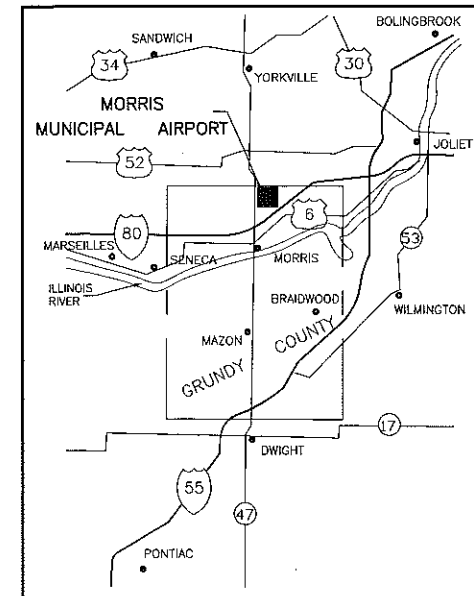
MORRIS MUNICIPAL AIRPORT
SECTIONS 10 & 15, TOWNSHIP 34N., RANGE 7E. OF 3RD P.M.
GRUNDY COUNTY, SARATOGA TOWNSHIP

UNDERGROUND UTILITY INFORMATION

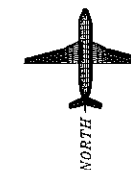
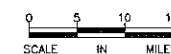
UTILITY SERVICE	PERSON TO CONTACT	TELEPHONE NO.
ELECTRIC - COMMONWEALTH EDISON	JULIE (JOINT UTILITY LOCATING INFORMATION FOR EXCAVATORS)	1-800-892-0123
TELEPHONE - AT&T	JULIE (JOINT UTILITY LOCATING INFORMATION FOR EXCAVATORS)	1-800-892-0123
NATURAL GAS - NICOR	JULIE (JOINT UTILITY LOCATING INFORMATION FOR EXCAVATORS)	1-800-892-0123



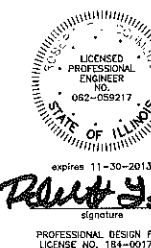
LOCATION MAP
NOT TO SCALE



VICINITY MAP



4-1-13
date



Illinois Department of Transportation
Division of Aeronautics

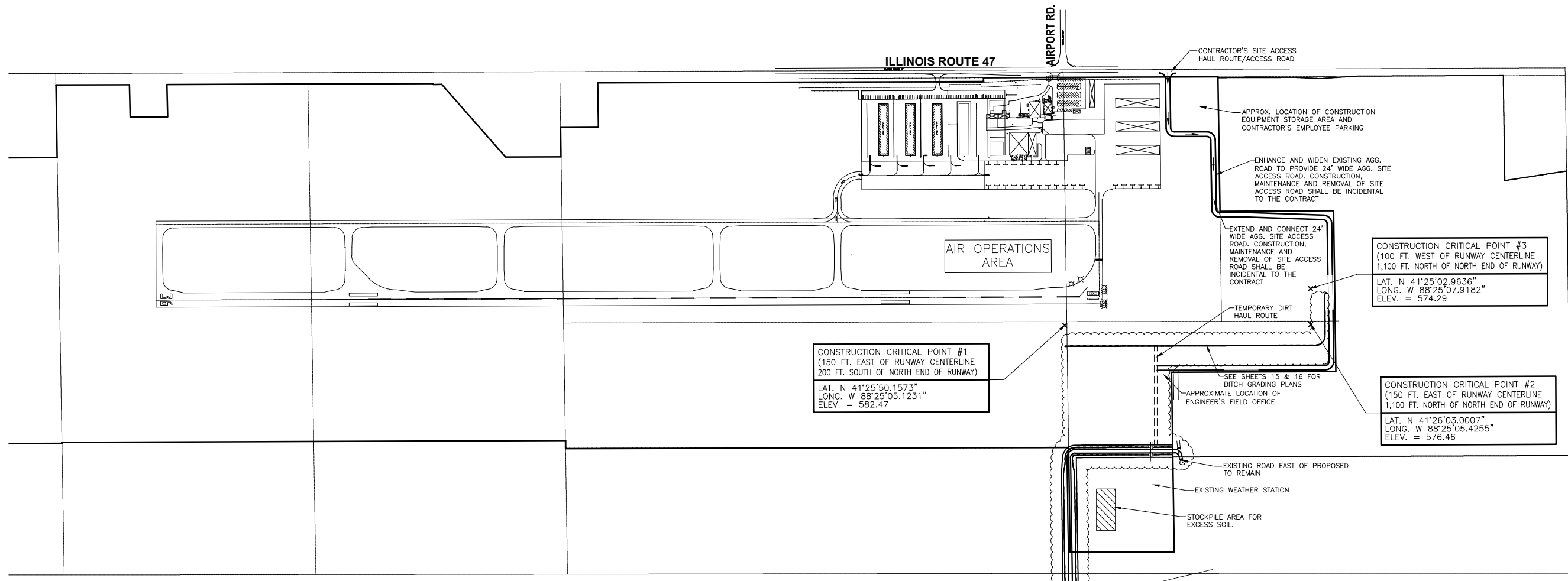
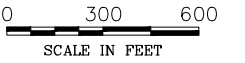
APPROVED _____ CHIEF ENGINEER
DATE _____ 20 ____

CITY OF MORRIS

APPROVED *Paul Y. Lee* MAYOR
DATE 4-2-2013 20 13
APPROVED *John D. Eng...* CITY CLERK
DATE 4-2-2013 20 13

CHAMLIN ASSOCIATES
PERU ILLINOIS MORRIS

SUBMITTED BY: *Paul Y. Lee* ENGINEER
DATE April 1 20 13
JOB NO. 1002.76
PROFESSIONAL DESIGN FIRM LICENSE NO.: 184-001717



WORK AREA

18' ROAD WITHIN 80' RIGHT-OF-WAY

VALLEY RUN CREEK

ASHLEY ROAD

PROPOSED BRIDGE

LEGEND

— BRL — LIMITS OF CONSTRUCTION BUILDING RESTRICTION LINE (BRL)

- SEQUENCE OF CONSTRUCTION**
1. PHASE I: (CONSTRUCT ACCESS ROAD)
 - a. PUT UP CONSTRUCTION SIGNAGE AND BARRICADES.
 - b. STRIP AND STOCKPILE TOPSOIL FROM ALL LOCATIONS.
 - c. GRADE DITCH EAST OF PROPOSED RUNWAY EXTENSION. TRANSPORT FILL TO ACCESS ROAD.
 - d. GRADE ACCESS ROAD.
 - e. DRIVE BRIDGE PILES
 - f. CONSTRUCT CONCRETE BRIDGE STRUCTURES
 - g. INSTALL CULVERTS
 - h. PLACE CRUSHED AGGREGATE BASE
 - i. PLACE PRECAST BRIDGE BEAMS
 - j. PLACE RAP AGGREGATE SURFACE COURSE
 - k. COMPLETE BRIDGE
 - l. COMPLETE FINISH GRADING
 - m. INSTALL STOP SIGN
 - n. APPLY FERTILIZER, SEEDING, MULCHING AND EROSION CONTROL BLANKET.
 - o. CLEAN WORK AREA.
 - p. REMOVE CONSTRUCTION SIGNAGE AND BARRICADES.

- SAFETY PLAN NOTES**
- 1.) THE SEQUENCE OF CONSTRUCTION SHOWN ON THIS SHEET IS INTENDED TO ALLOW ORDERLY AND SAFE CONSTRUCTION.
 - 2.) BARRICADES SHALL BE PLACED AND MAINTAINED AS SHOWN HEREIN, AS INDICATED IN THE SPECIAL PROVISIONS AND AS DIRECTED BY THE ENGINEER. PLACEMENT AND MAINTENANCE OF BARRICADES ARE INCIDENTAL TO CONTRACT.
 - 3.) ALL BARRICADES, MARKINGS, LATHE, FLAGGING, AND TRAFFIC CONTROL ITEMS ARE INCIDENTAL TO THE CONTRACT.
 - 4.) ALL IDOT TYPE III BARRICADES SHALL HAVE FOUR STANDARD SIZE SAND BAGS PER LEG.

- GENERAL NOTES AND SCOPE OF WORK**
- 1.) SCOPE OF WORK: THIS PROJECT CONSISTS OF CONSTRUCTION OF A 3800' ACCESS ROAD AND BRIDGE TO THE EAST OF EXISTING RUNWAY 18/36 INCLUDING ALL NECESSARY EARTHWORK, GRADING, DRAINAGE AND EROSION CONTROL.
 - 2.) THE MAXIMUM ANTICIPATED CONSTRUCTION EQUIPMENT HEIGHT IS 30'-0".
 - 3.) THE CONTRACTOR SHALL USE THE DESIGNATED ACCESS ROAD AS SHOWN ON THIS SHEET. THE CONTRACTOR SHALL MAINTAIN THE PROPOSED ACCESS ROAD THROUGHOUT THE COURSE OF THE PROJECT. AT THE CONCLUSION OF THE PROJECT, ANY AREAS DAMAGED OUTSIDE THE AREAS SHOWN FOR CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE. RESTORATION OF THE ACCESS ROAD WILL BE CONSIDERED INCIDENTAL TO THE PROJECT.
 - 4.) THE CONTRACTOR SHALL INVESTIGATE EXISTING DRAINAGE PIPES AND FIELD TILES TO DETERMINE THEIR EXTENT. ALL FIELD TILES AND DRAIN PIPES SHALL BE EXTENDED, REROUTED, OR MAINTAINED TO PROVIDE CONTINUOUS UNOBSTRUCTED DRAINAGE. SAID MAINTENANCE WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
 - 5.) PUMPING GROUND WATER AND/OR STORM WATER FROM THE WORK AREA IS CONSIDERED INCIDENTAL TO THE PROJECT.
 - 6.) DUE TO THE CLOSE PROXIMITY TO AIRCRAFT OPERATIONS, THE CONTRACTOR IS REQUIRED TO STRICTLY ADHERE TO THE GUIDELINES REGARDING CONSTRUCTION SAFETY AS SET FORTH IN FAA ADVISORY CIRCULAR 150/5370-2E

POINT OF CONTACT
 AIRPORT MANAGER:
 JEFF VOGEN
 MORRIS MUNICIPAL AIRPORT
 9980 N. RTE. 47
 MORRIS, IL 60450
 (815) 942-1600

LOCATION	EARTHWORK SUMMARY		
	CUT (COMPUTED EXISTING IN PLACE) (CY) (A)	FILL (COMPUTED COMPACTED IN PLACE) (CY) (B)	SHORTAGE(-) OR EXCESS(+) (CY) (C) (A(0.80)-B)
GENERAL SITE AREA	18,050	21,150	-6,710
PAY ITEMS: AR 152410	UNCLASSIFIED EXCAVATION		39,200 C.Y.

CHAMLIN & ASSOCIATES, INC. © 2009
 Drawing Name: H:\A\ADBA\1\1002-86\VTOP 2-15-12.dwg Last Modified: Mar 08, 2013 - 2:01pm Plotted on: Mar 08, 2013 - 3:03pm by markb

DRAWN BY: MAB	REVISIONS			
CHECKED BY: RTS	LEVEL	BY	DATE	DESCRIPTION
CREATED: 11/8/12	1	MAB	3/8/13	REVISED PER IDA COMMENTS

CHAMLIN & ASSOCIATES

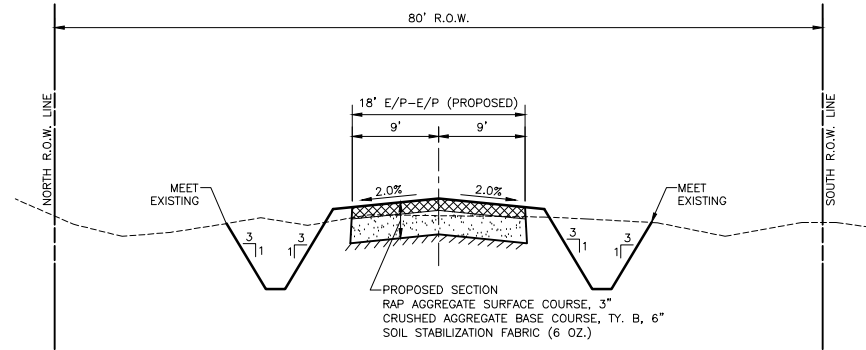
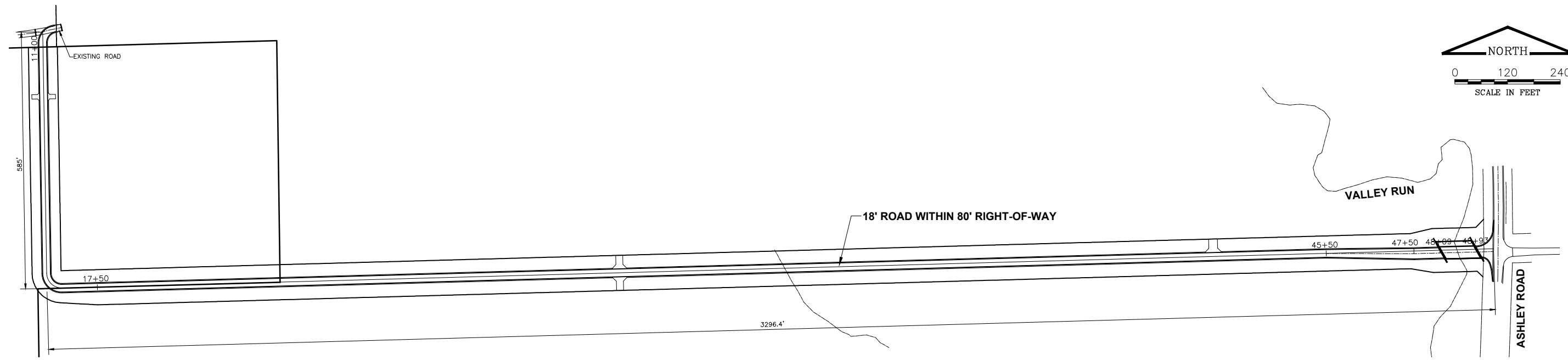
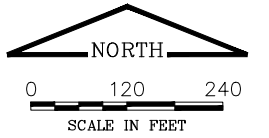
PERU MORRIS
ILLINOIS

MORRIS AIRPORT ACCESS ROAD
 CITY OF MORRIS, GRUNDY COUNTY, ILLINOIS

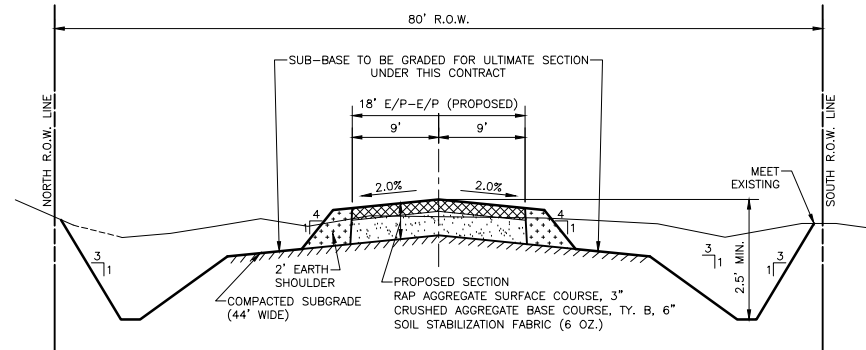
CONSTRUCTION SAFETY PLAN

APPROVED
 FOR CONSTRUCTION

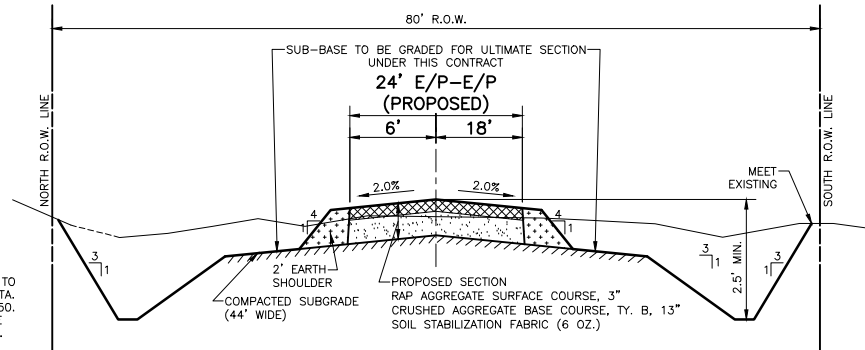
CURRENT AS OF: 03/08/13	
SCALE: 1 = 300	SHEET 2
FILE NO.:	OF 38



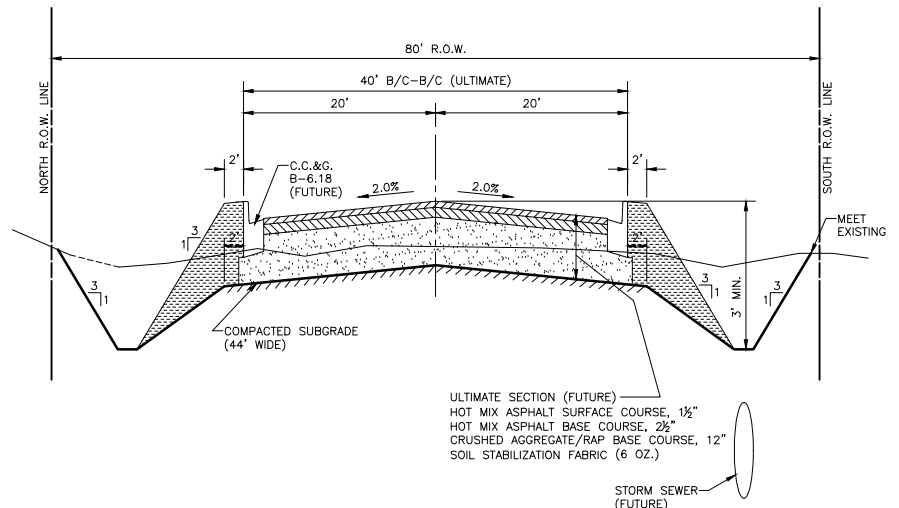
MORRIS AIRPORT ACCESS ROAD
STA. 10+59.45 to STA. 17+50
PROPOSED TYPICAL SECTION
NOT TO SCALE



MORRIS AIRPORT ACCESS ROAD
STA. 17+50 to STA. 45+50
PROPOSED TYPICAL SECTION
NOT TO SCALE



MORRIS AIRPORT ACCESS ROAD
STA. 47+50 to STA. 48+09 (BRIDGE)
PROPOSED TYPICAL SECTION
NOT TO SCALE



MORRIS AIRPORT ACCESS ROAD
STA. 17+50 to STA. 45+50
ULTIMATE SECTION (FUTURE)
NOT TO SCALE

CHAMLIN & ASSOCIATES, INC. © 2009
Drawing Name: H:\A\020-MR020-88\ETOP0 2-15-12.dwg Last Modified: Mar 08, 2013 - 2:01pm Plotted on: Mar 08, 2013 - 3:04pm by markb

REVISIONS				
LEVEL	BY	DATE	DESCRIPTION	
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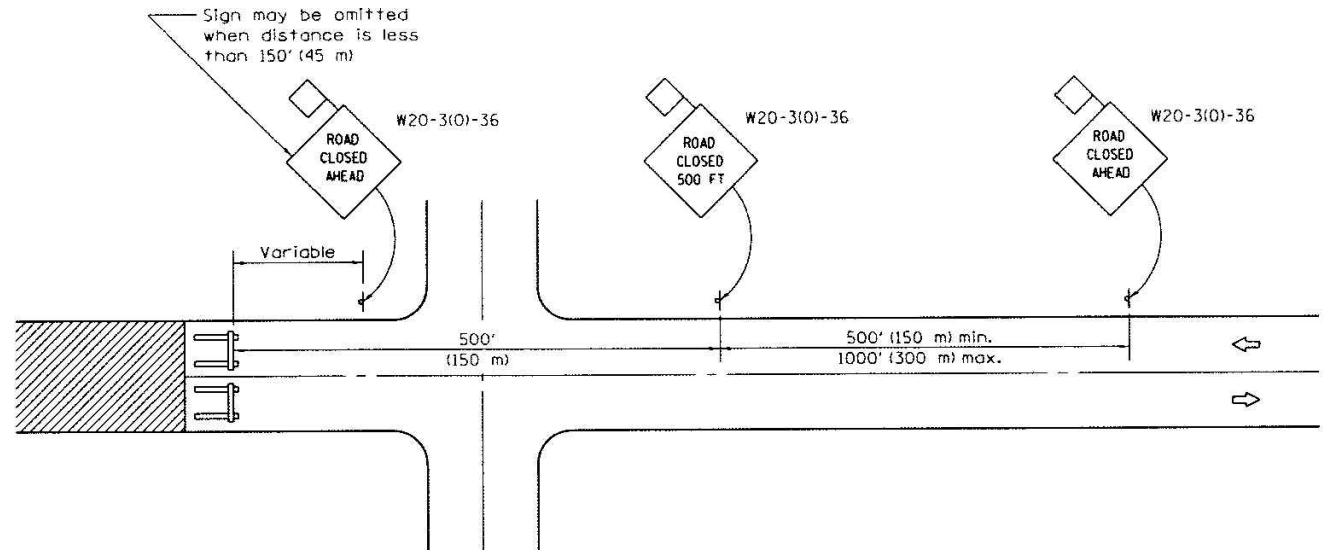
CHAMLIN & ASSOCIATES
PERU MORRIS
ILLINOIS

MORRIS AIRPORT ACCESS ROAD
CITY OF MORRIS, GRUNDY COUNTY, ILLINOIS

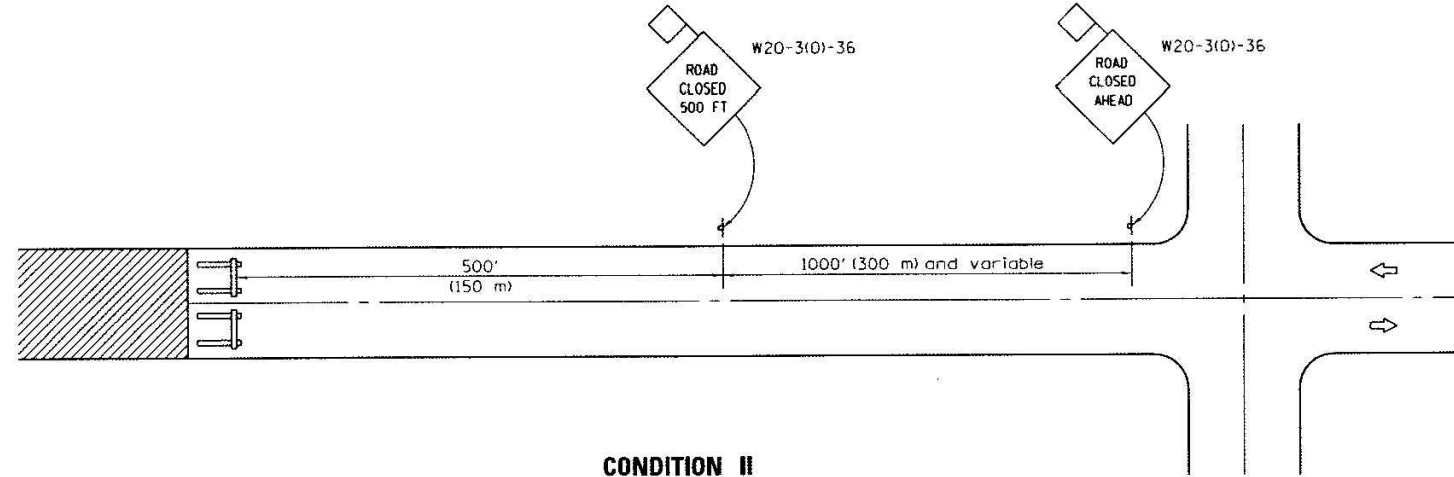
DIMENSIONAL LAYOUT PLAT & TYPICAL SECTIONS

APPROVED
FOR CONSTRUCTION

CURRENT AS OF: 03/08/13	SHEET 3
SCALE: 1" = 120'	OF 38
FILE NO.:	






CONDITION I
When distance from closure to crossroad is less than 1500' (450 m)



CONDITION II
When distance from closure to crossroad is greater than 1500' (450 m)

SYMBOLS

-  Work area
-  Type III Barricade
-  Sign with 18x18 (450x450) min. orange flag attached

GENERAL NOTES

Type III Barricades and R11-2-4830 signs shall be positioned as shown in "Road Closed To All Traffic" detail on Highway Standard 701901.

Two Type A Low Intensity Flashing Lights shall be used on each approach in advance of the work area during hours of darkness. One light shall be installed above the barricades and the other above the first advance warning sign.

All warning signs shall have minimum dimensions of 36 x 36 (900 x 900) and have a black legend on an orange reflectorized background.

When fluorescent signs are used, orange flags are not required.

Longitudinal dimensions may be adjusted to fit field conditions.

When the distance between the barricade and the intersection is between 1500' (450 m) and 2000' (600 m), the advance sign shall be placed at the intersection. When the distance between the barricade and the intersection is over 2000' (600 m), an additional sign shall be placed at the intersection. The additional sign shall give the distance to the barricade in miles or fractions of a mile.

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

APPROVED January 1, 2012
ENGINEER OF LOCAL ROADS AND STREETS

APPROVED January 1, 2012
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

DATE	REVISIONS
1-1-12	Omitted two notes from GENERAL NOTES.
1-1-09	Switched units to English (metric).

TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

STANDARD B.L.R. 21-9

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Drawing Name: H:\A\DRB\1\1002-86\CTOPD 2-15-12.dwg Last Modified: Mar 08, 2013 - 2:01pm Plotted on: Mar 08, 2013 - 3:04pm by markb

LEVEL	BY	DATE	REVISIONS	DESCRIPTION
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DRAWN BY: MAB
CHECKED BY: RTS
CREATED: 11/8/12

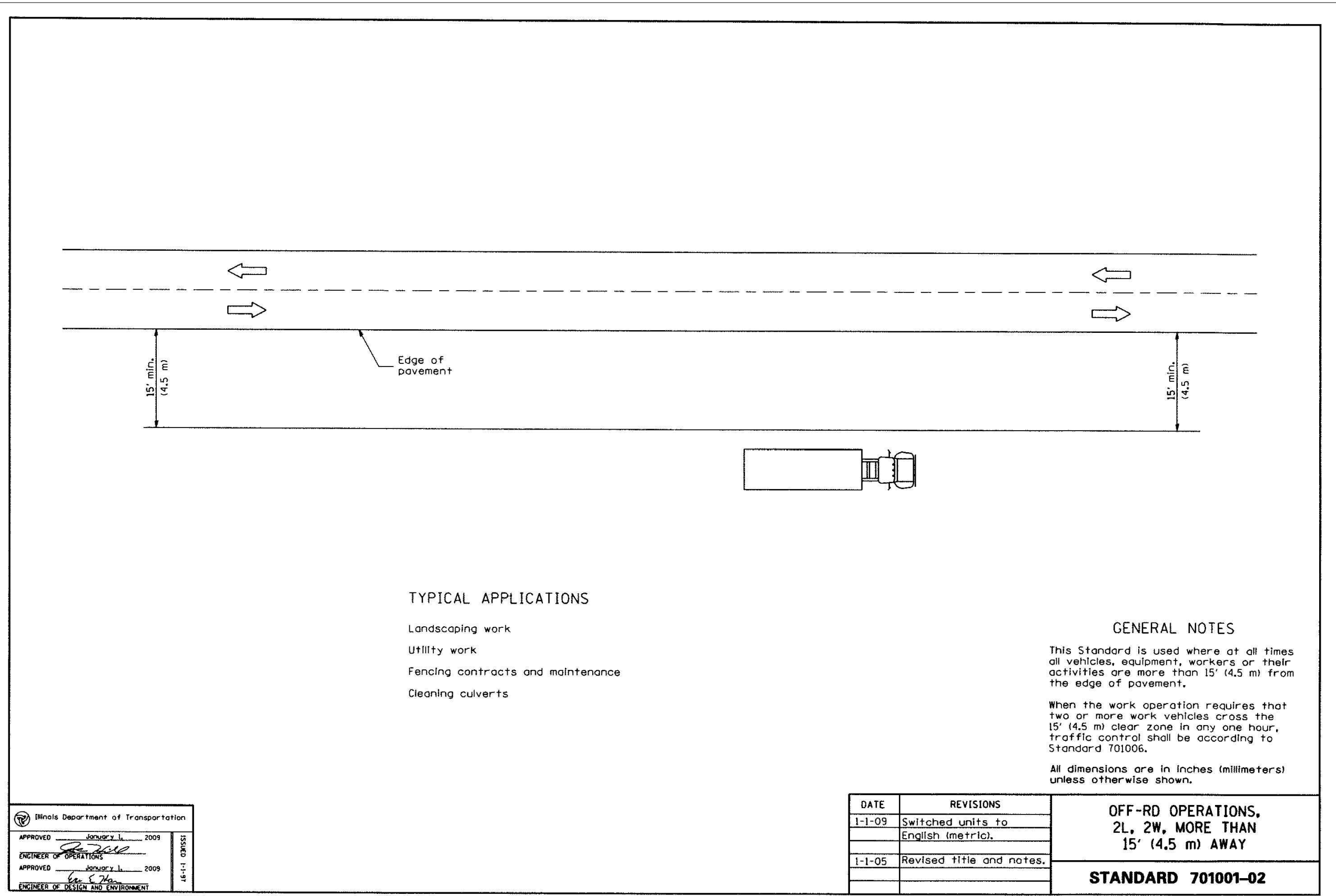
CHAMLIN & ASSOCIATES
PERU MORRIS
ILLINOIS

MORRIS AIRPORT ACCESS ROAD
CITY OF MORRIS, GRUNDY COUNTY, ILLINOIS

DETAILS

APPROVED
FOR CONSTRUCTION

CURRENT AS OF: 03/08/13	SHEET 4
SCALE: 1 = 120	OF 38
FILE NO.:	



Illinois Department of Transportation	
APPROVED <u>January 1, 2009</u> ENGINEER OF OPERATIONS	ISSUED 1-1-09
APPROVED <u>January 1, 2009</u> ENGINEER OF DESIGN AND ENVIRONMENT	

DATE	REVISIONS
1-1-09	Switched units to English (metric).
1-1-05	Revised title and notes.

**OFF-RD OPERATIONS,
 2L, 2W, MORE THAN
 15' (4.5 m) AWAY**
STANDARD 701001-02

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 Drawing Name: H:\A\DRB\1\1002-86\CTOPD 2-15-12.dwg Last Modified: Mar 08, 2013 - 2:01pm Plotted on: Mar 08, 2013 - 3:05pm by markb

LEVEL	BY	DATE	REVISIONS	DESCRIPTION
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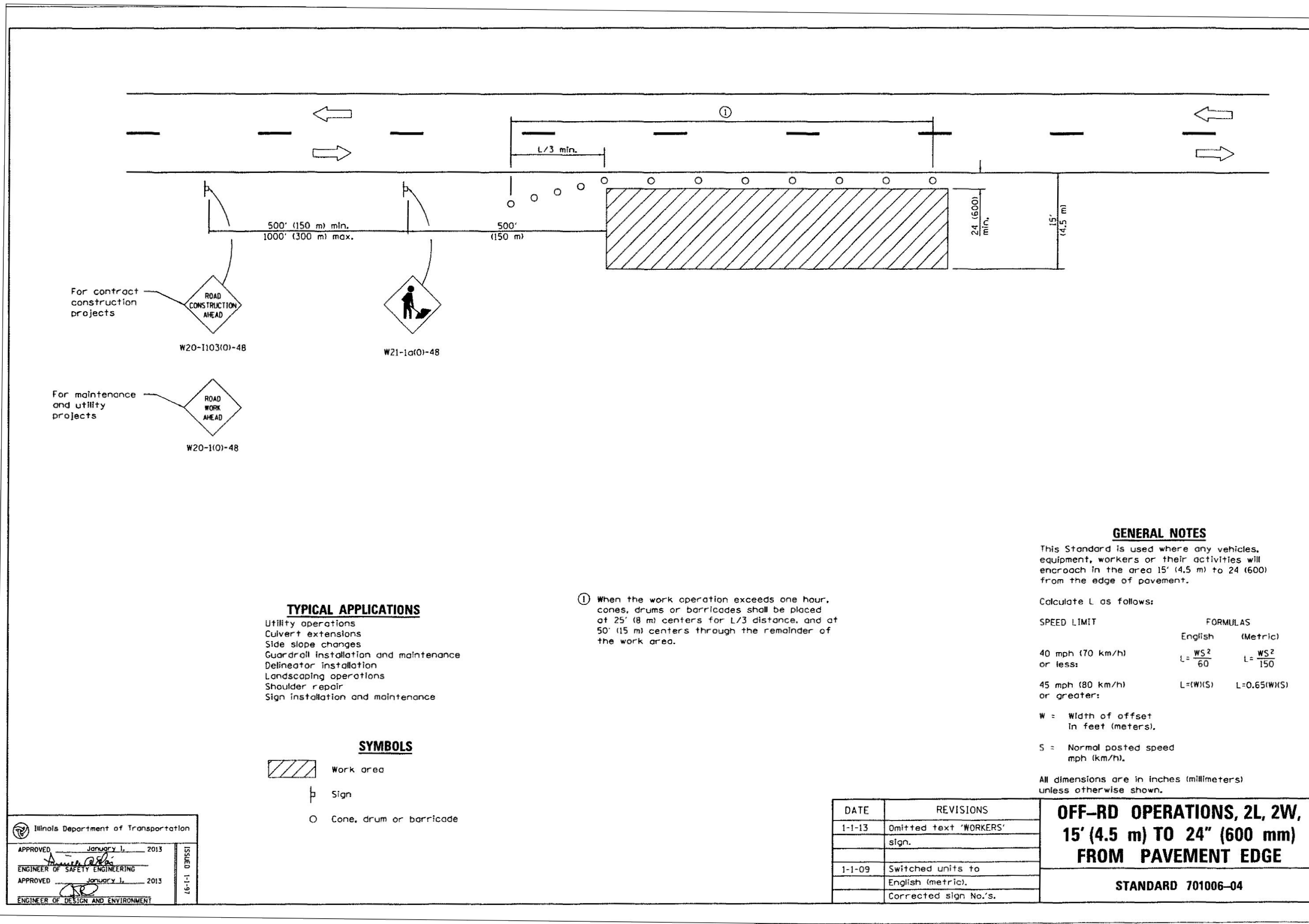
CHAMLIN & ASSOCIATES
 PERU MORRIS ILLINOIS

MORRIS AIRPORT ACCESS ROAD
CITY OF MORRIS, GRUNDY COUNTY, ILLINOIS

DETAILS

APPROVED
 FOR CONSTRUCTION

CURRENT AS OF: 03/08/13	
SCALE: 1 = 120	SHEET 5
FILE NO.:	OF 38



For contract construction projects
ROAD CONSTRUCTION AHEAD
 W20-1103(0)-48

For maintenance and utility projects
ROAD WORK AHEAD
 W20-11(0)-48

TYPICAL APPLICATIONS

- Utility operations
- Culvert extensions
- Side slope changes
- Guardrail installation and maintenance
- Delineator installation
- Landscaping operations
- Shoulder repair
- Sign installation and maintenance

SYMBOLS

- Work area
- Sign
- Cone, drum or barricade

① When the work operation exceeds one hour, cones, drums or barricades shall be placed at 25' (8 m) centers for L/3 distance, and at 50' (15 m) centers through the remainder of the work area.

GENERAL NOTES

This Standard is used where any vehicles, equipment, workers or their activities will encroach in the area 15' (4.5 m) to 24' (600 mm) from the edge of pavement.

Calculate L as follows:

SPEED LIMIT	FORMULAS	
	English	(Metric)
40 mph (70 km/h) or less:	$L = \frac{WS^2}{60}$	$L = \frac{WS^2}{150}$
45 mph (80 km/h) or greater:	$L = (W)(S)$	$L = 0.65(W)(S)$

W = Width of offset in feet (meters).
 S = Normal posted speed mph (km/h).

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

APPROVED January 1, 2013
 ENGINEER OF SAFETY ENGINEERING

APPROVED January 1, 2013
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

DATE	REVISIONS
1-1-13	Omitted text 'WORKERS' sign.
1-1-09	Switched units to English (metric). Corrected sign No.'s.

**OFF-RD OPERATIONS, 2L, 2W,
 15' (4.5 m) TO 24" (600 mm)
 FROM PAVEMENT EDGE**

STANDARD 701006-04

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 Drawing Name: H:\A\DR\11002-86\CTOPD 2-15-12.dwg Last Modified: Mar 08, 2013 - 2:01pm Plotted on: Mar 08, 2013 - 3:06pm by markb

LEVEL	BY	DATE	REVISIONS	DESCRIPTION
1	MAB	3/8/13	REVISED PER IDA COMMENTS	

DRAWN BY: MAB
 CHECKED BY: RTS
 CREATED: 11/8/12

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 PERU MORRIS
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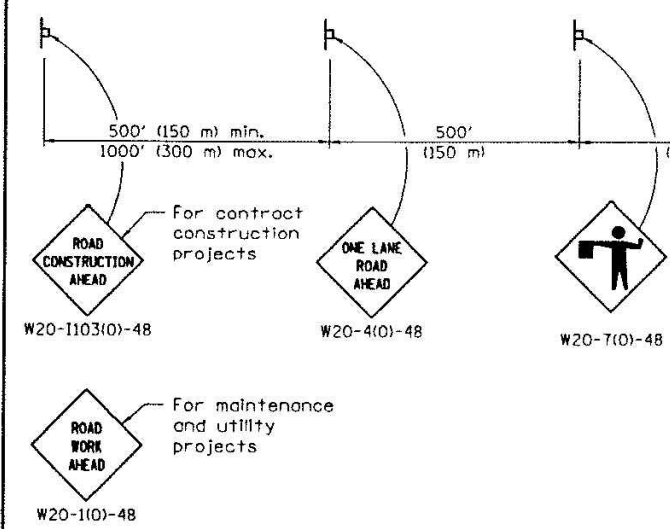
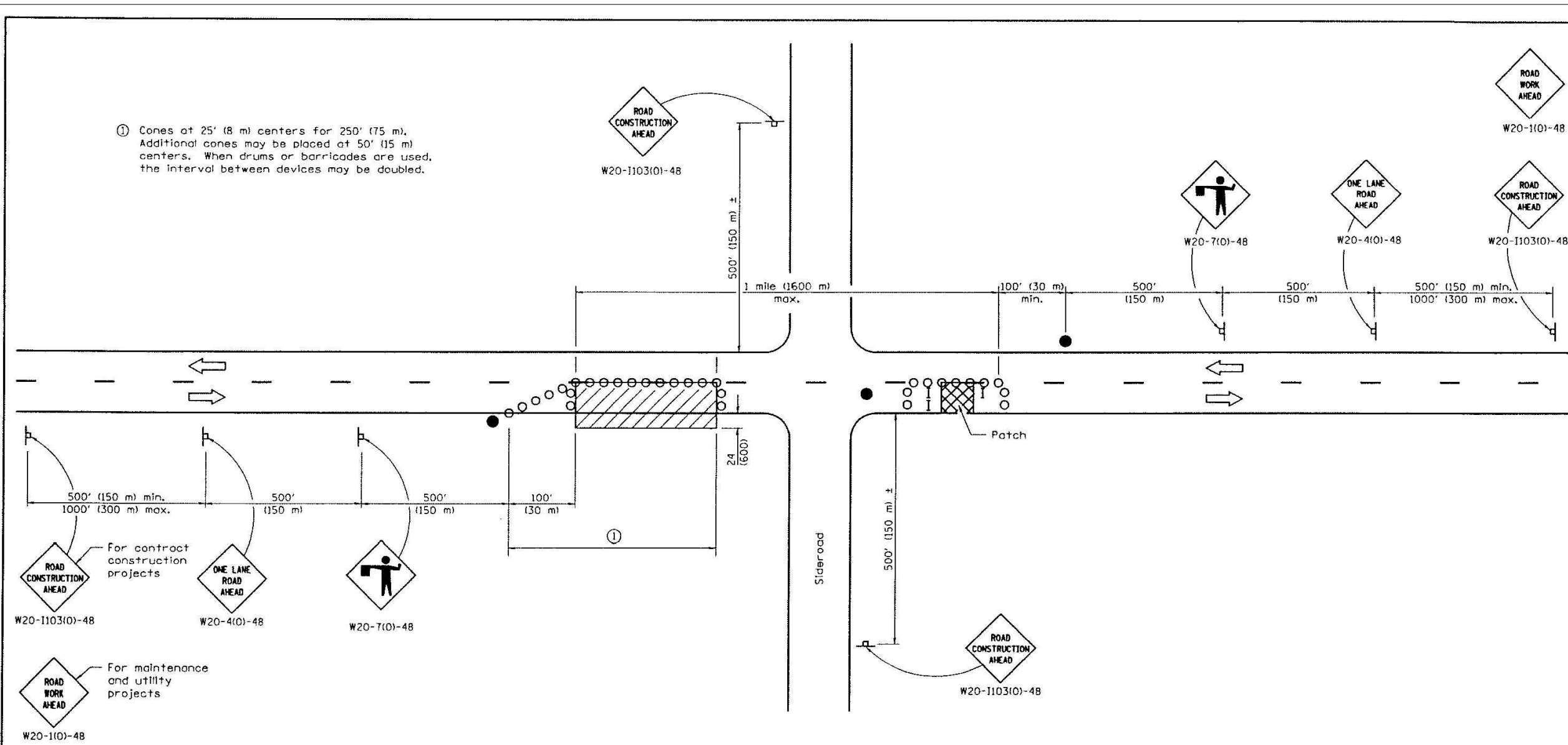
MORRIS AIRPORT ACCESS ROAD
 CITY OF MORRIS, GRUNDY COUNTY, ILLINOIS

DETAILS

APPROVED FOR CONSTRUCTION

CURRENT AS OF: 03/08/13
 SCALE: 1" = 120'
 SHEET 6 OF 38

① Cones at 25' (8 m) centers for 250' (75 m). Additional cones may be placed at 50' (15 m) centers. When drums or barricades are used, the interval between devices may be doubled.



SYMBOLS

- Work area
- Sign
- Barricade or drum
- Cone, drum or barricade
- Flagger with traffic control sign

TYPICAL APPLICATIONS

- Isolated patching
- Utility operations
- Storm sewer
- Culverts
- Cable placement

GENERAL NOTES

This Standard is used where at any time, any vehicles, equipment, workers or their activities will encroach in the area between the center line and a line 24 (600) outside the edge of pavement for daylight operation.

When the distance between successive work areas exceeds 2000' (600 m), additional warning signs, flaggers, and taper shall be placed as shown.

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

APPROVED January 1, 2011
 ENGINEER OF SAFETY ENGINEERING

APPROVED January 1, 2011
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

DATE	REVISIONS
1-1-11	Revised flagger sign.
1-1-09	Switched units to English (metric).
	Corrected sign No.'s.

**LANE CLOSURE, 2L, 2W,
 DAY ONLY,
 FOR SPEEDS ≥ 45 MPH**

STANDARD 701201-04

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 Drawing Name: H:\A\ADBA\1\1002-86\CTOPD 2-15-12.dwg Last Modified: Mar 08, 2013 - 2:01pm Plotted on: Mar 08, 2013 - 3:06pm by markb

LEVEL	BY	DATE	REVISIONS	DESCRIPTION
1	MAB	3/8/13	REVISED PER IDA COMMENTS	

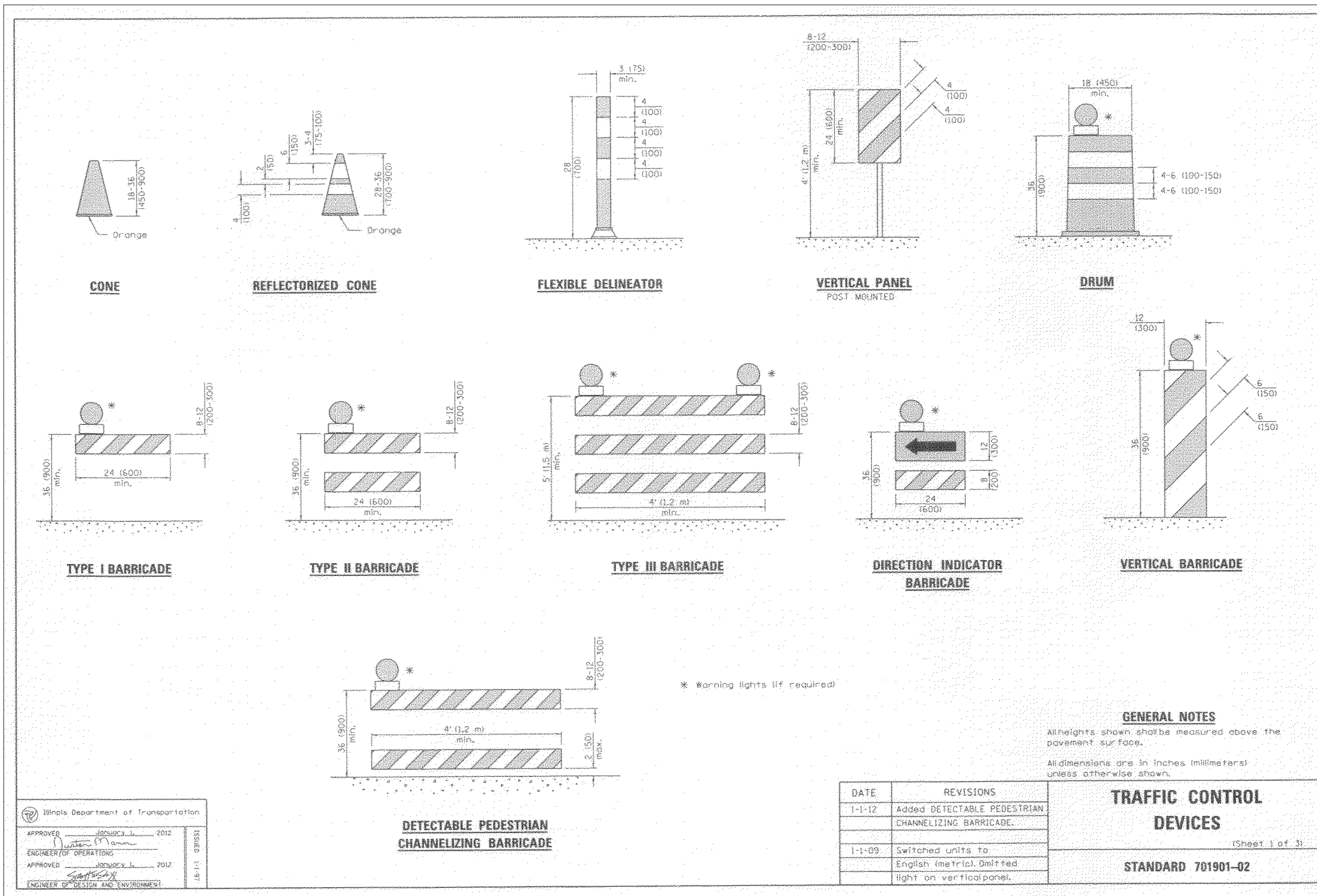
CHAMLIN & ASSOCIATES
 PERU MORRIS
 ILLINOIS

MORRIS AIRPORT ACCESS ROAD
 CITY OF MORRIS, GRUNDY COUNTY, ILLINOIS

DETAILS

APPROVED
 FOR CONSTRUCTION

CURRENT AS OF: 03/08/13	SHEET 7
SCALE: 1" = 120'	OF 38
FILE NO.:	



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Drawing Name: H:\A\DR\11\1002-86\TOPD 2-15-12.dwg Last Modified: Mar 08, 2013 - 2:01pm Plotted on: Mar 08, 2013 - 3:07pm by mark

DRAWN BY: MAB	REVISIONS			
CHECKED BY: RTS	LEVEL	BY	DATE	DESCRIPTION
CREATED: 11/8/12	1	MAB	3/8/13	REVISED PER IDA COMMENTS

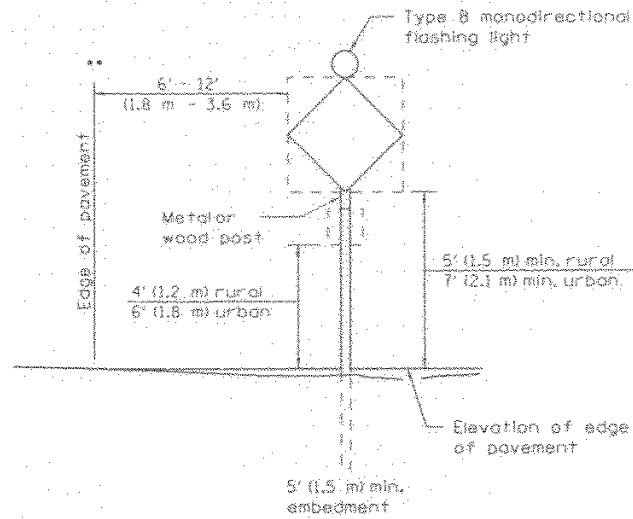
CHAMLIN & ASSOCIATES
PERU MORRIS ILLINOIS

MORRIS AIRPORT ACCESS ROAD
CITY OF MORRIS, GRUNDY COUNTY, ILLINOIS

DETAILS

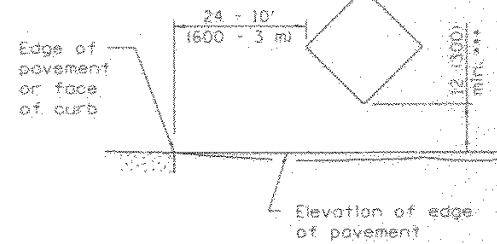
APPROVED FOR CONSTRUCTION

CURRENT AS OF: 03/08/13	
SCALE: 1" = 120'	SHEET 8
FILE NO.:	OF 38



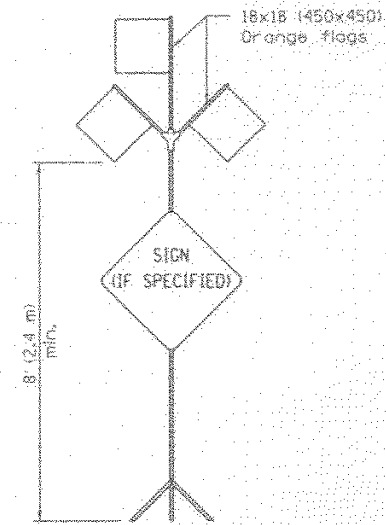
POST MOUNTED SIGNS

** When curb or paved shoulder are present this dimension shall be 24 (600) to the face of curb or 6' (1.8 m) to the outside edge of the paved shoulder.

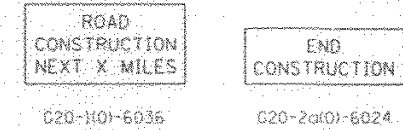


SIGNS ON TEMPORARY SUPPORTS

*** When work operations exceed four days, this dimension shall be 5' (1.5 m) min. If located behind other devices, the height shall be sufficient to be seen by motorists.

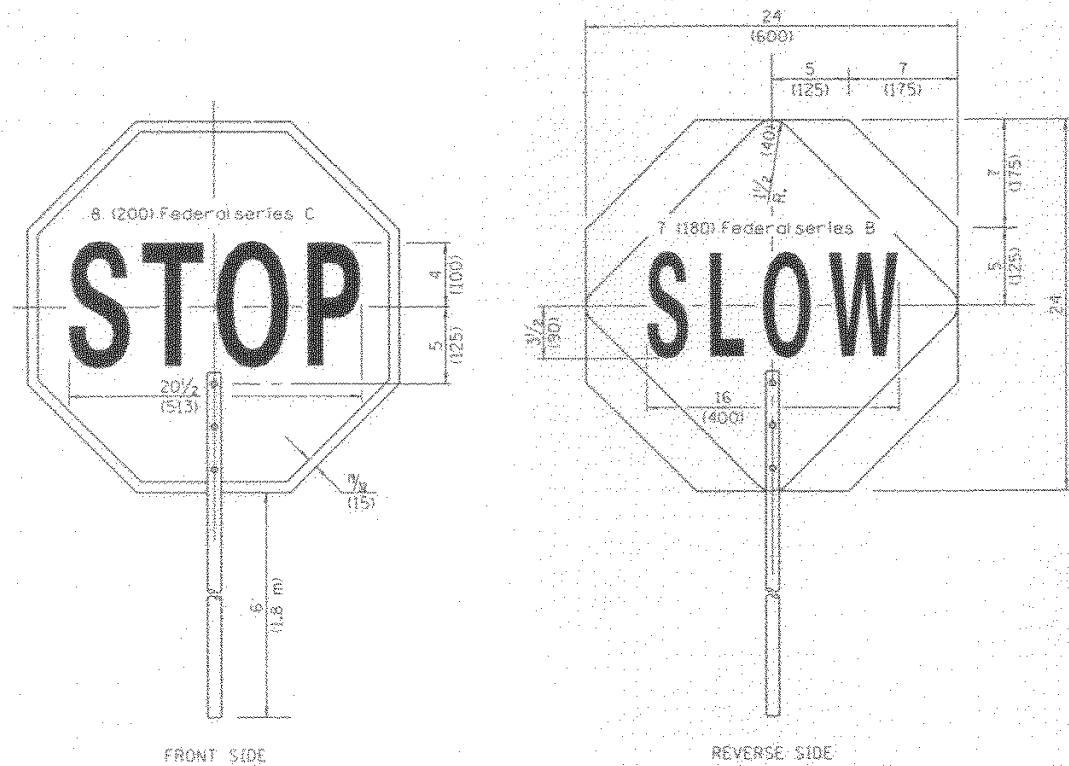


HIGH LEVEL WARNING DEVICE



This signing is required for all projects 2 miles (3200 m) or more in length.
 ROAD CONSTRUCTION NEXT X MILES sign shall be placed 500' (150 m) in advance of project limits.
 END CONSTRUCTION sign shall be erected at the end of the job unless another job is within 2 miles (3200 m).
 Dual sign displays shall be utilized on multi-lane highways.

WORK LIMIT SIGNING



FLAGGER TRAFFIC CONTROL SIGN

All dimensions are in inches (millimeters) unless otherwise shown.

TRAFFIC CONTROL DEVICES

(Sheet 2 of 3)

STANDARD 701901-02

Illinois Department of Transportation	
APPROVED	January 1, 2012
<i>Justin Mann</i>	
ENGINEER OF OPERATIONS	
APPROVED	January 1, 2012
<i>Scott Smith</i>	
ENGINEER OF DESIGN AND ENVIRONMENT	

CHAMLIN & ASSOCIATES, INC. © 2009
 Drawing Name: H:\A\DR\11002-86\TPO 2-15-12.dwg Last Modified: Mar 08, 2013 - 2:01pm Plotted on: Mar 08, 2013 - 3:07pm by mark

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CHECKED BY: RTS	1	MAB	3/8/13	REVISED PER IDA COMMENTS
CREATED: 11/8/12				

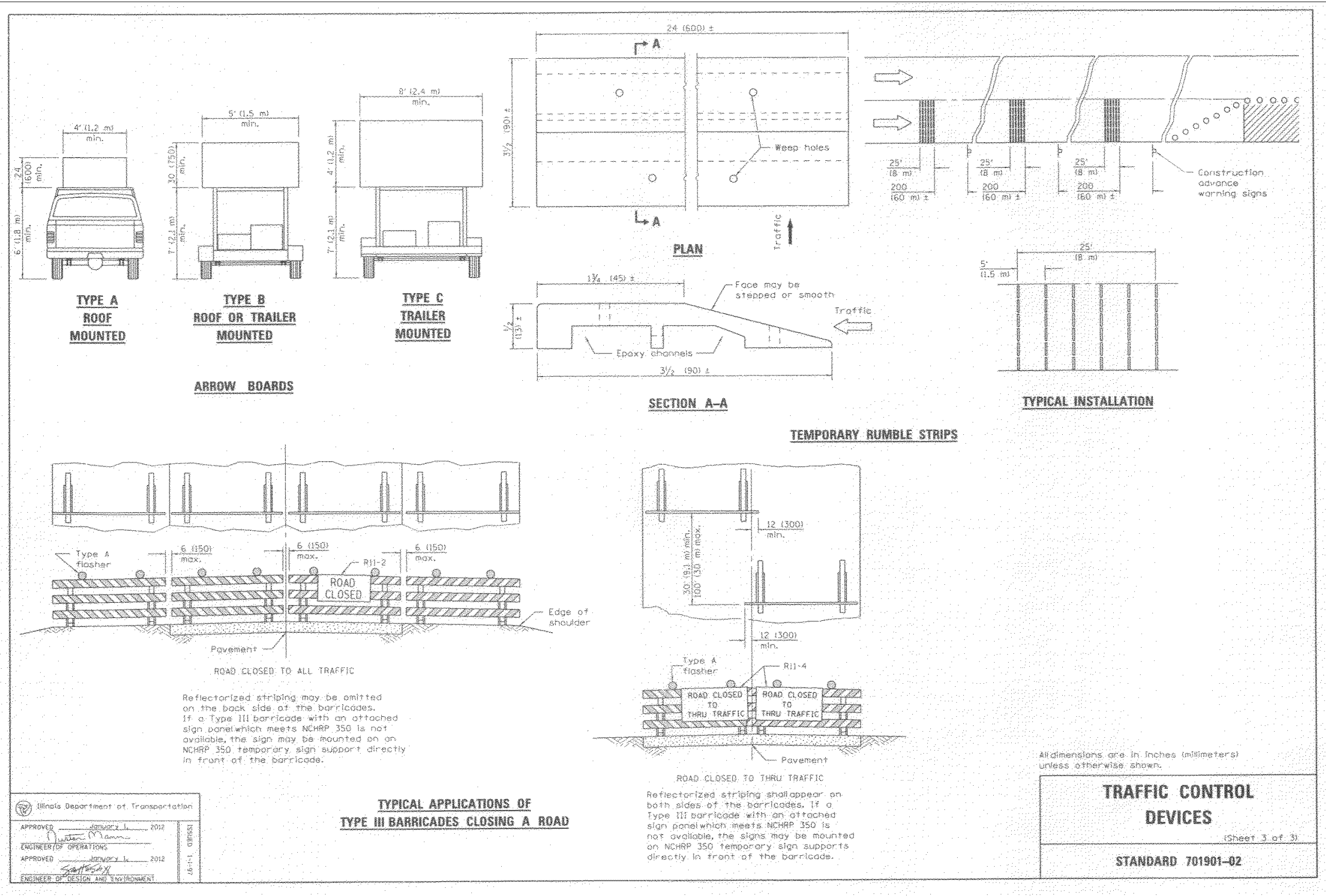
CHAMLIN & ASSOCIATES
 PERU MORRIS ILLINOIS

MORRIS AIRPORT ACCESS ROAD
 CITY OF MORRIS, GRUNDY COUNTY, ILLINOIS

DETAILS

APPROVED FOR CONSTRUCTION

CURRENT AS OF: 03/08/13
 SCALE: 1" = 120'
 SHEET 9 OF 38



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 Drawing Name: H:\A\DR\111002-86\CTOP 2-15-12.dwg Last Modified: Mar 08, 2013 - 2:01pm Plotted on: Mar 08, 2013 - 3:08pm by mark

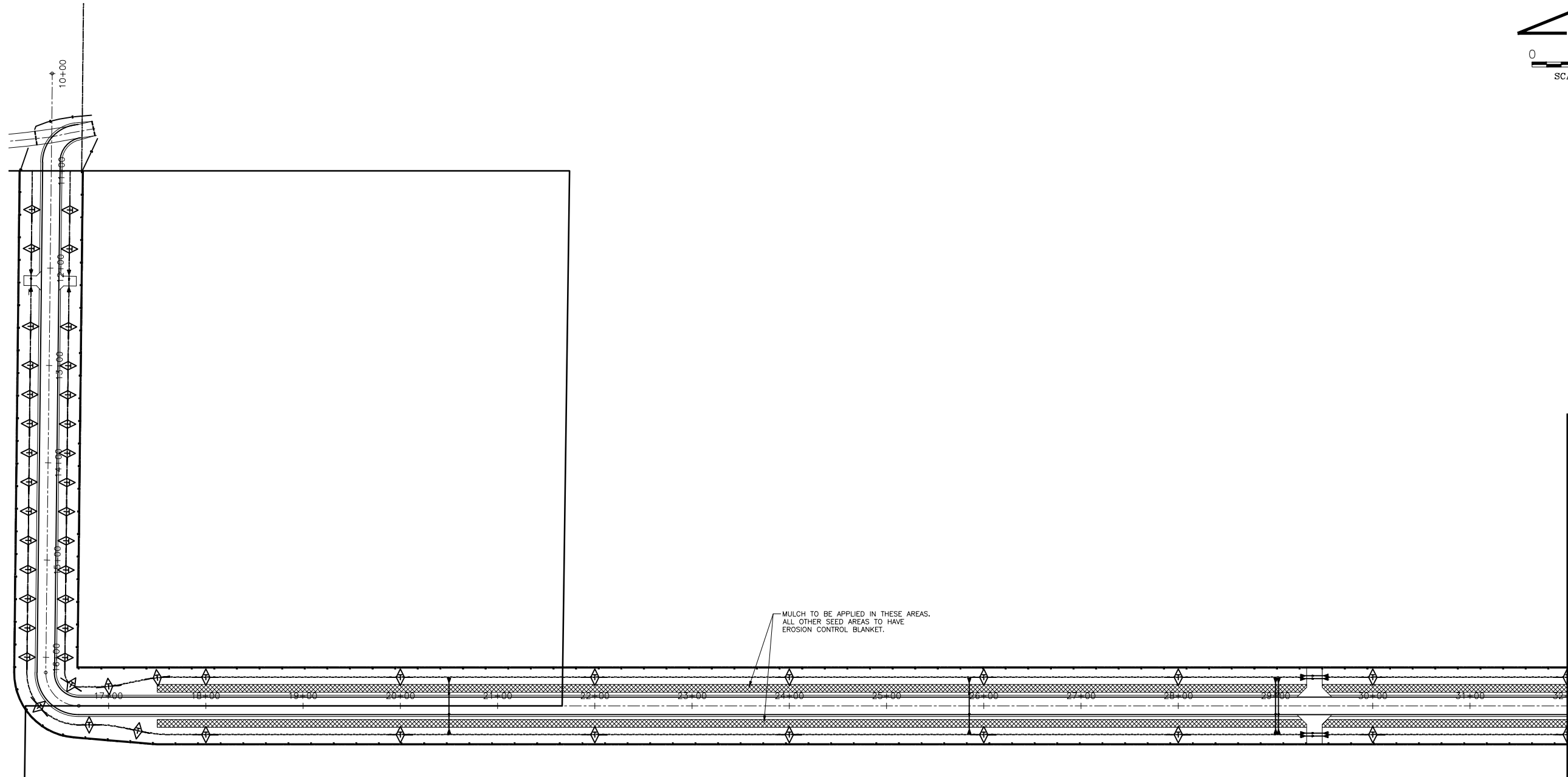
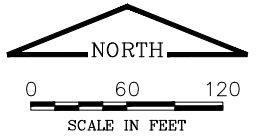
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CHECKED BY: RTS	LEVEL	BY	DATE	DESCRIPTION
CREATED: 11/8/12	1	MAB	3/8/13	REVISED PER IDA COMMENTS

PERU MORRIS
 ILLINOIS

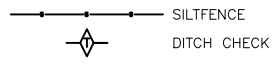
MORRIS AIRPORT ACCESS ROAD
 CITY OF MORRIS, GRUNDY COUNTY, ILLINOIS

DETAILS

APPROVED FOR CONSTRUCTION
 CURRENT AS OF: 03/08/13
 SCALE: 1" = 120'
 SHEET 10 OF 38



MATCHLINE STA. 32+00 SEE SHEET 6



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Drawing Name: H:\ADBA\1\1002-86\10PO 2-15-12.dwg Last Modified: Mar 08, 2013 - 2:01pm Plotted on: Mar 08, 2013 - 3:08pm by markb

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CHECKED BY: RTS	LEVEL	BY	DATE	DESCRIPTION
CREATED: 11/8/12	1	MAB	3/8/13	REVISED PER IDA COMMENTS

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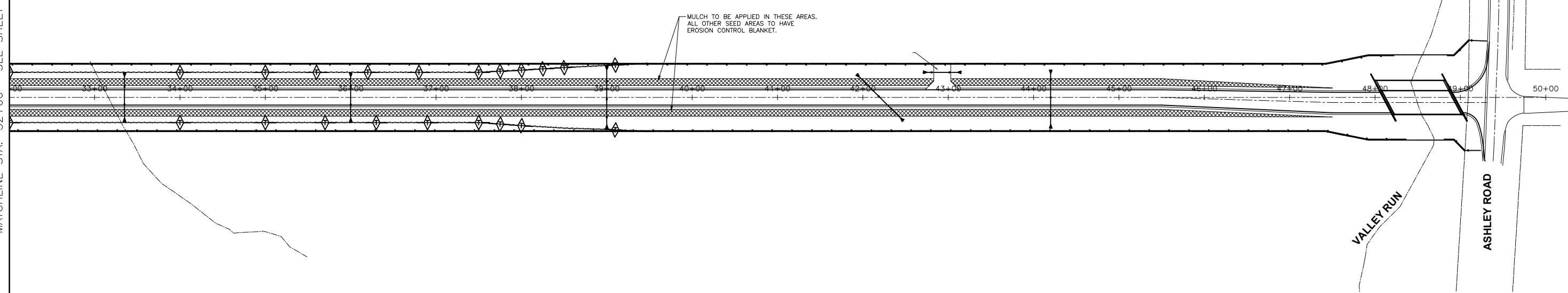
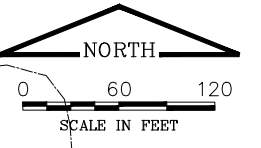
MORRIS AIRPORT ACCESS ROAD
CITY OF MORRIS, GRUNDY COUNTY, ILLINOIS

EROSION CONTROL PLAN

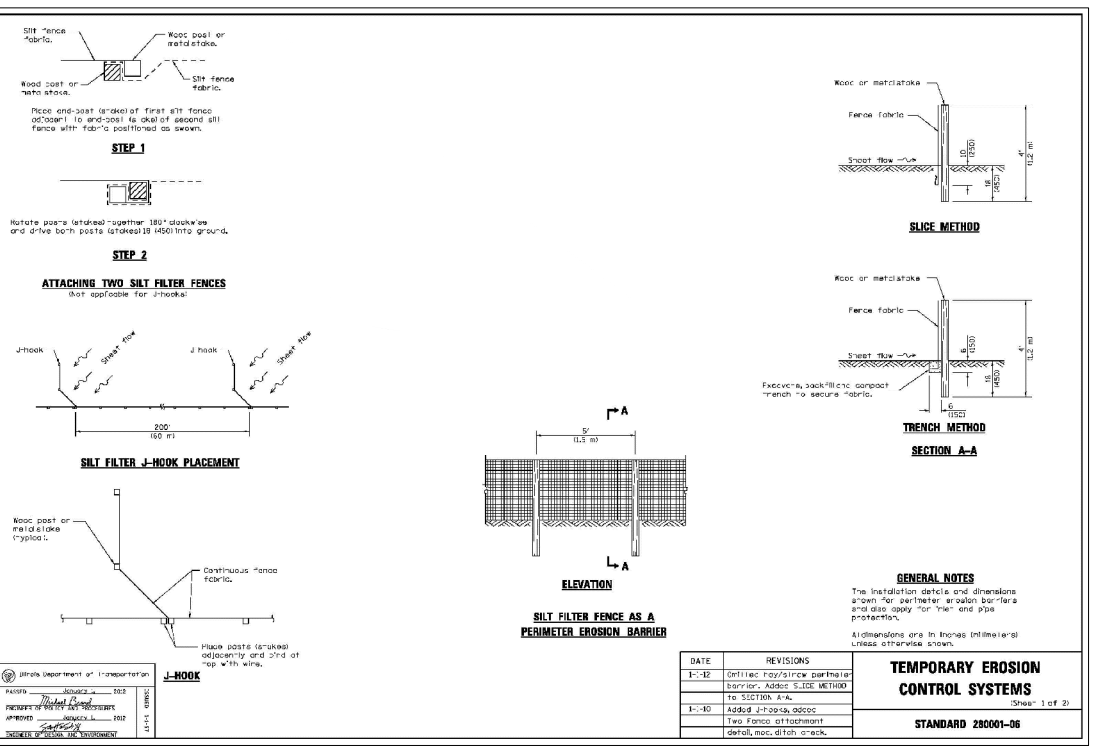
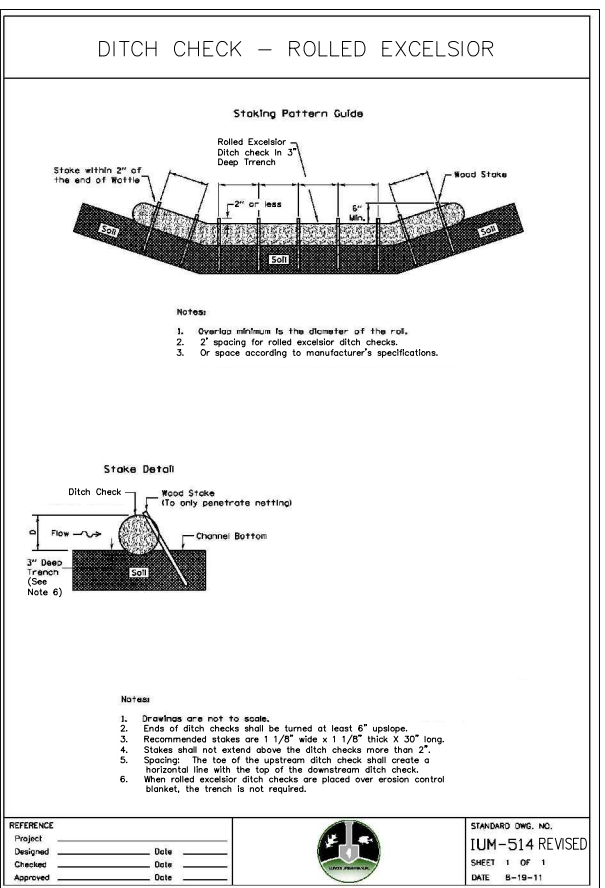
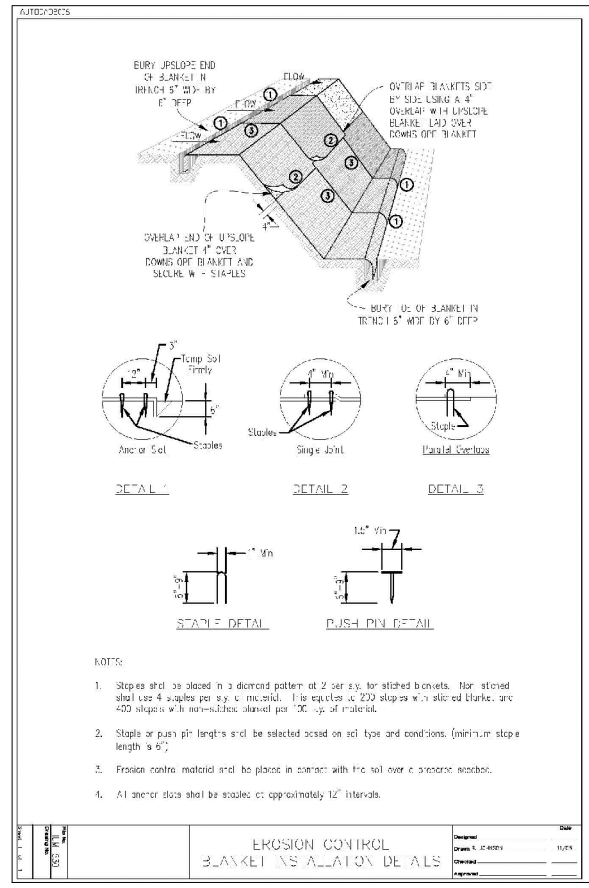
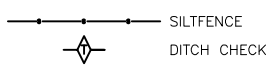
APPROVED
FOR CONSTRUCTION

CURRENT AS OF: 03/08/13	
SCALE: 1 = 50	SHEET 11
FILE NO.:	OF 38

MATCHLINE STA. 32+00 SEE SHEET 5



MULCH TO BE APPLIED IN THESE AREAS.
ALL OTHER SEED AREAS TO HAVE
EROSION CONTROL BLANKET.



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Drawing Name: H:\A\0202-86\CTOPD 2-15-12.dwg Last Modified: Mar 08, 2013 - 2:01pm Plotted on: Mar 08, 2013 - 3:08pm by mark

DRAWN BY: MAB	REVISIONS			
CHECKED BY: RTS	LEVEL	BY	DATE	DESCRIPTION
CREATED: 11/8/12	1	MAB	3/8/13	REVISED PER IDA COMMENTS

CHAMLIN & ASSOCIATES
PERU MORRIS
ILLINOIS

MORRIS AIRPORT ACCESS ROAD
CITY OF MORRIS, GRUNDY COUNTY, ILLINOIS

EROSION CONTROL PLAN

APPROVED FOR CONSTRUCTION

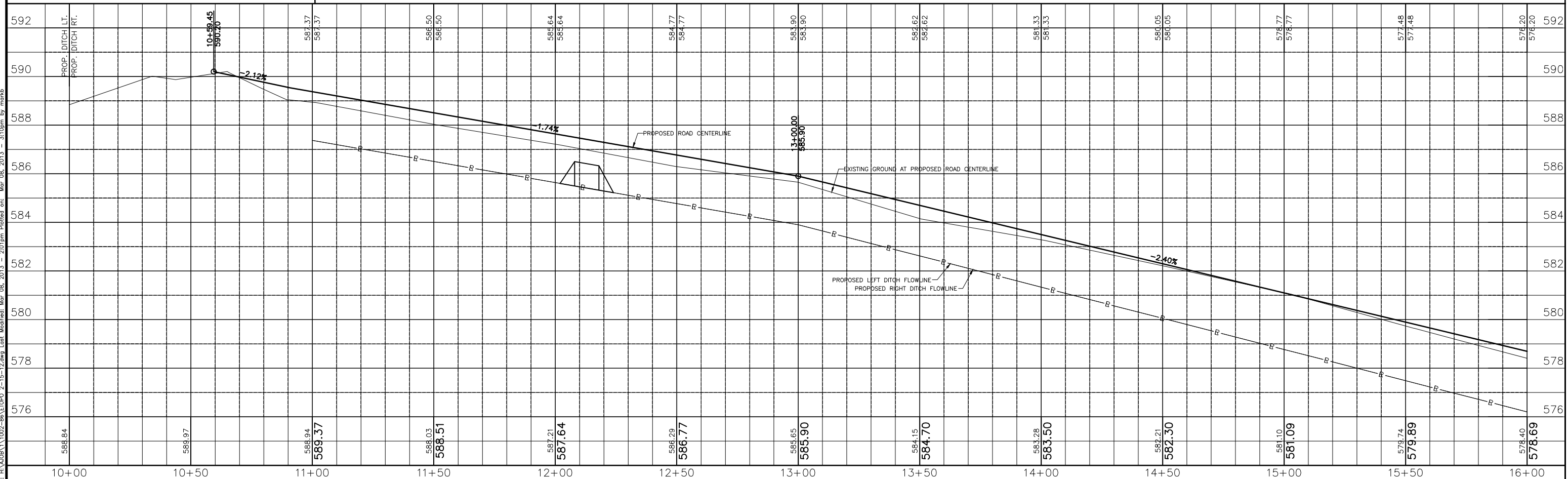
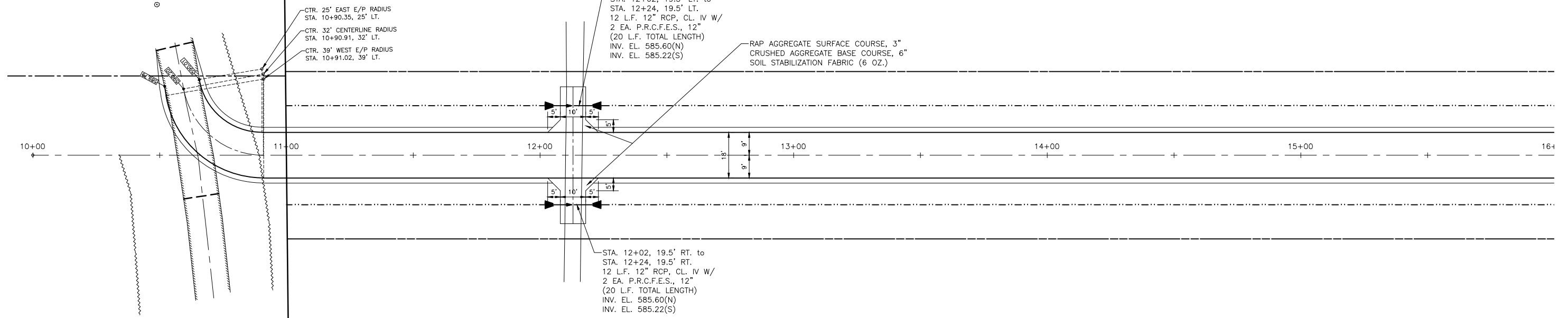
CURRENT AS OF: 03/08/13

SCALE: 1" = 50'

FILE NO.:

SHEET 12 OF 38

CENTERLINE CURVE DATA
 $\Delta = 79^{\circ}25'50"$
 $R = 32.00'$
 $T = 26.58'$
 $L = 44.36'$
 P.C. STA. 10+59.45, 26.13' LT.
 P.I. STA. 10+64.33, T.L.
 P.T. STA. 10+90.91, T.L.



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 Drawing Name: H:\A\0811\1002-86\ETOPD 2-15-12.dwg Last Modified: Mar 08, 2013 - 2:01pm Plotted on: Mar 08, 2013 - 3:10pm by marb

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CHECKED BY: RTS	LEVEL 1	BY MAB	DATE 3/8/13
		REVISOR	DESCRIPTION
		REVISED PER	IDA COMMENTS



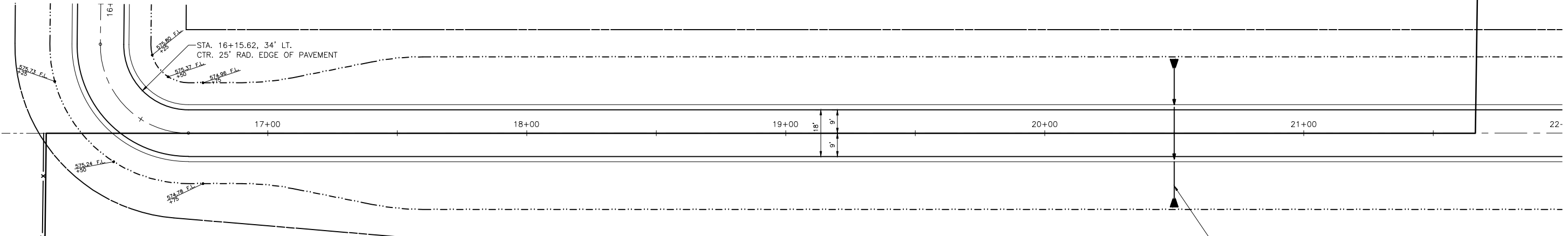
PERU MORRIS
 ILLINOIS

MORRIS AIRPORT ACCESS ROAD
 CITY OF MORRIS GRUNDY COUNTY ILLINOIS

PLAN & PROFILE

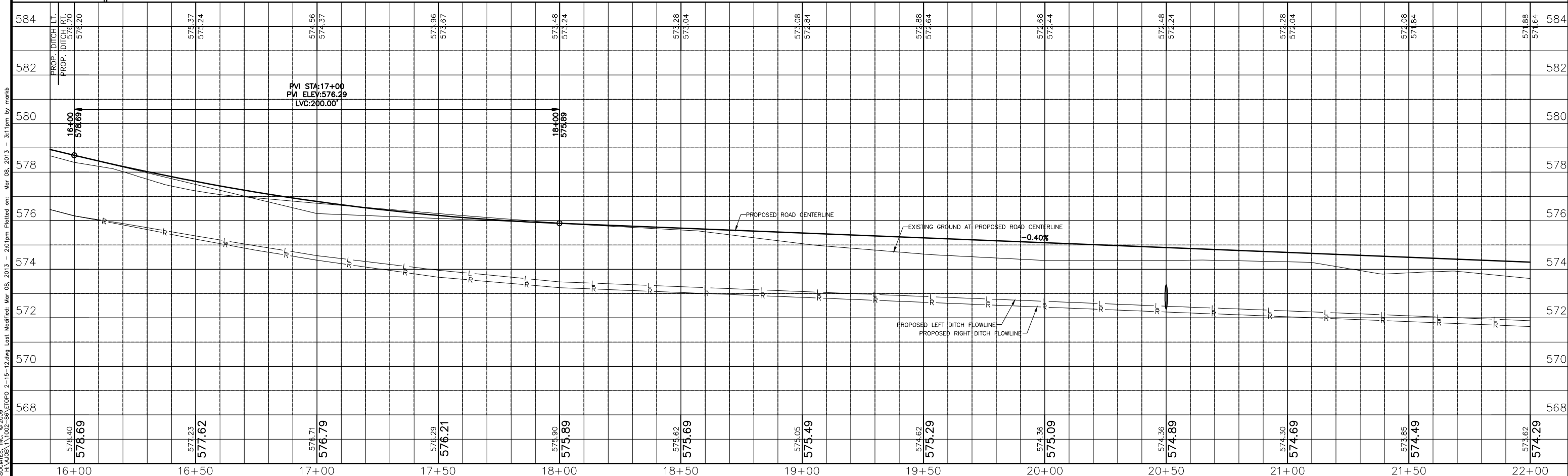
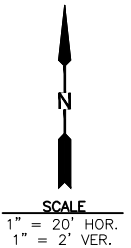
APPROVED
 FOR CONSTRUCTION

CURRENT AS OF: 03/08/13
 SCALE: 1" = 20'
 SHEET 13



CENTERLINE CURVE DATA
 $\Delta = 90^{\circ}37'23''$
 $R = 34.00'$
 $T = 34.37'$
 $L = 53.78'$
 P.C. STA. 16+15.62
 P.I. STA. 16+42.51
 P.T. STA. 16+69.40

STA. 20+50, 30' LT. TO 30' RT.
 48 L.F. 12" RCP, CL. IV @ 0.40% W/
 2 EA. P.R.C.F.E.S., 12"
 (60 L.F. TOTAL LENGTH)
 INV. EL. 572.48 (N)
 INV. EL. 572.24 (S)



PVI STA:17+00
 PVI ELEV:576.29
 LVC:200.00

-0.40%

DRAWN BY: MAB	REVISIONS			
CHECKED BY: RTS	LEVEL	BY	DATE	DESCRIPTION
CREATED: 3/5/12	1	MAB	3/8/13	REVISED PER IDA COMMENTS

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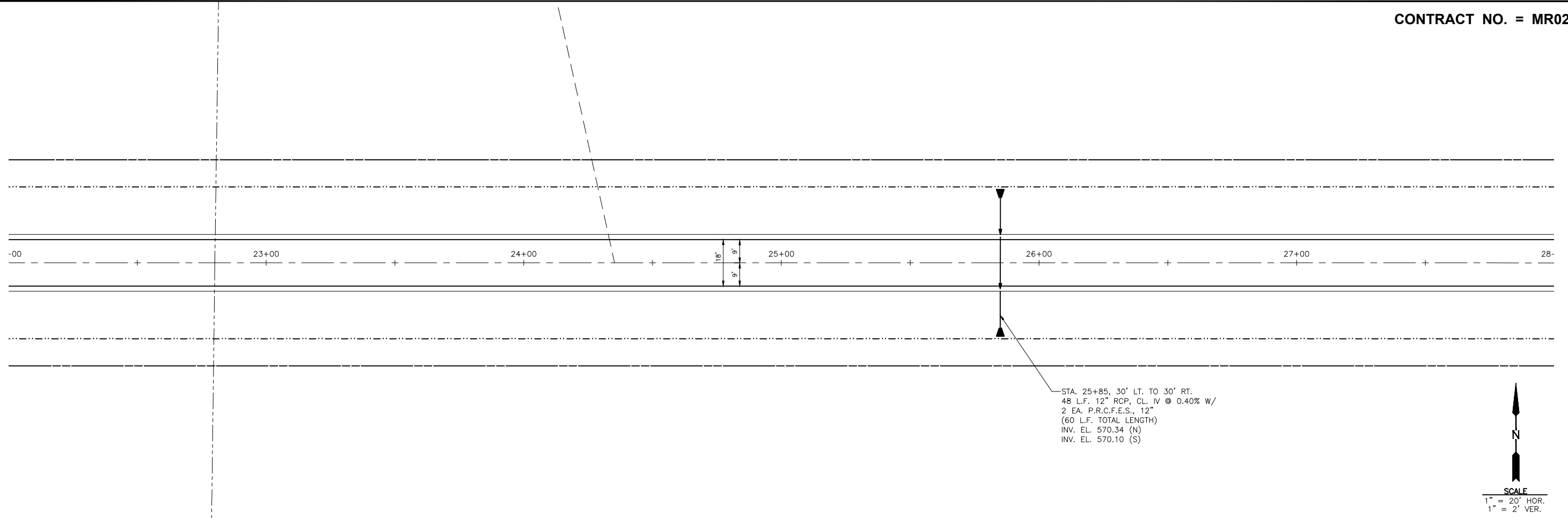
MORRIS AIRPORT ACCESS ROAD
 CITY OF MORRIS, GRUNDY COUNTY, ILLINOIS

PLAN & PROFILE

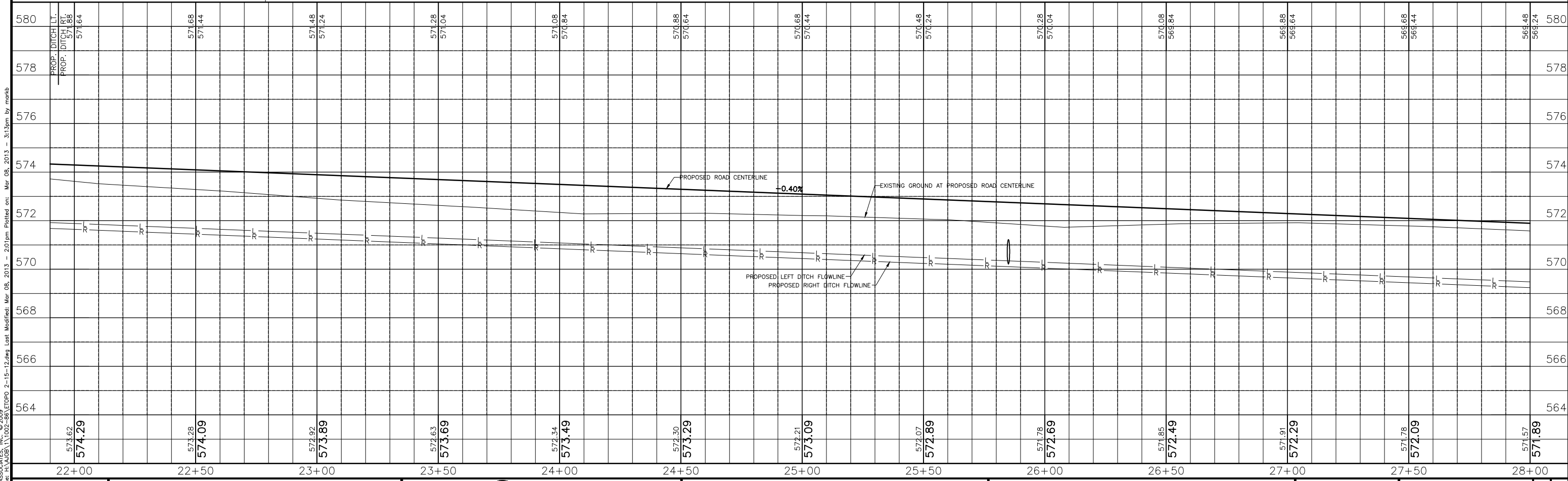
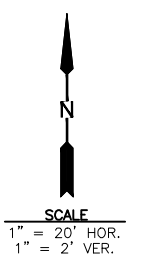
APPROVED FOR CONSTRUCTION

CURRENT AS OF: 03/08/13
 SCALE: 1" = 20'
 SHEET 14 OF 38

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 Drawing Name: H:\A\08\11\02-86\ETOP0 2-15-12.dwg Last Modified: Mar 08, 2013 - 2:01pm Plotted on: Mar 08, 2013 - 3:11pm by markb



STA. 25+85, 30' LT. TO 30' RT.
 48 L.F. 12" RCP, CL. IV @ 0.40% W/
 2 EA. P.R.C.F.E.S., 12"
 (60 L.F. TOTAL LENGTH)
 INV. EL. 570.34 (N)
 INV. EL. 570.10 (S)



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 Drawing Name: H:\A\08\11\002-86\ETOP0 2-15-12.dwg Last Modified: Mar 08, 2013 - 2:01pm Plotted on: Mar 08, 2013 - 3:13pm by markb

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CHECKED BY: RTS	LEVEL	BY	DATE	DESCRIPTION
CREATED: 3/5/12	1	MAB	3/8/13	REVISED PER IDA COMMENTS

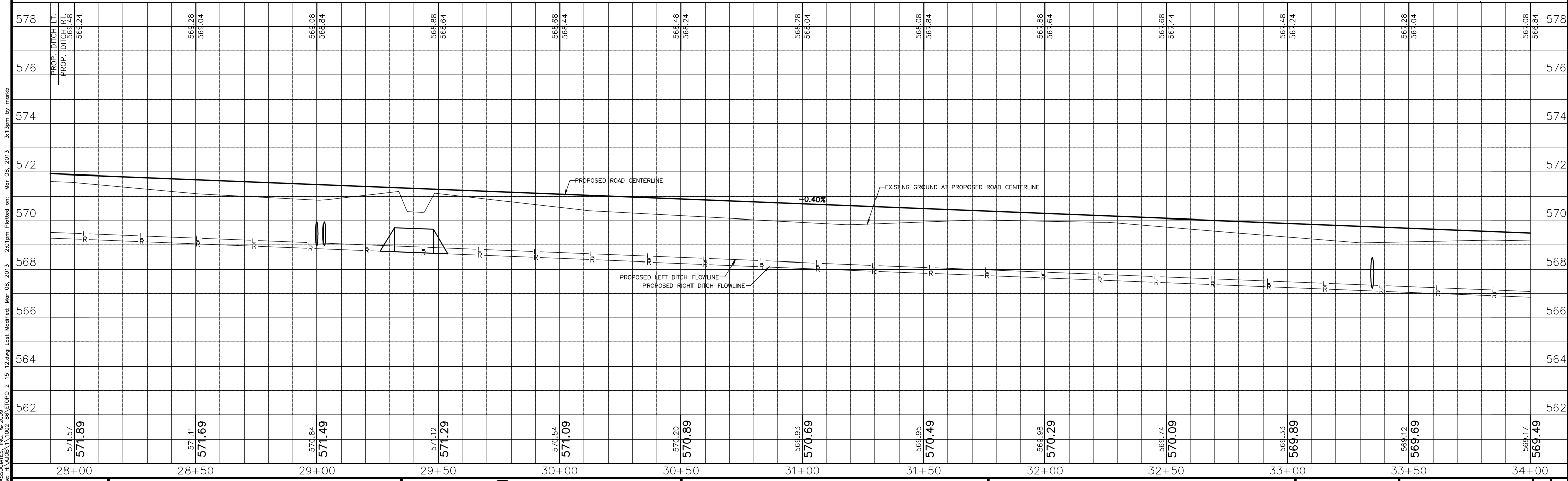
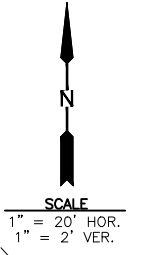
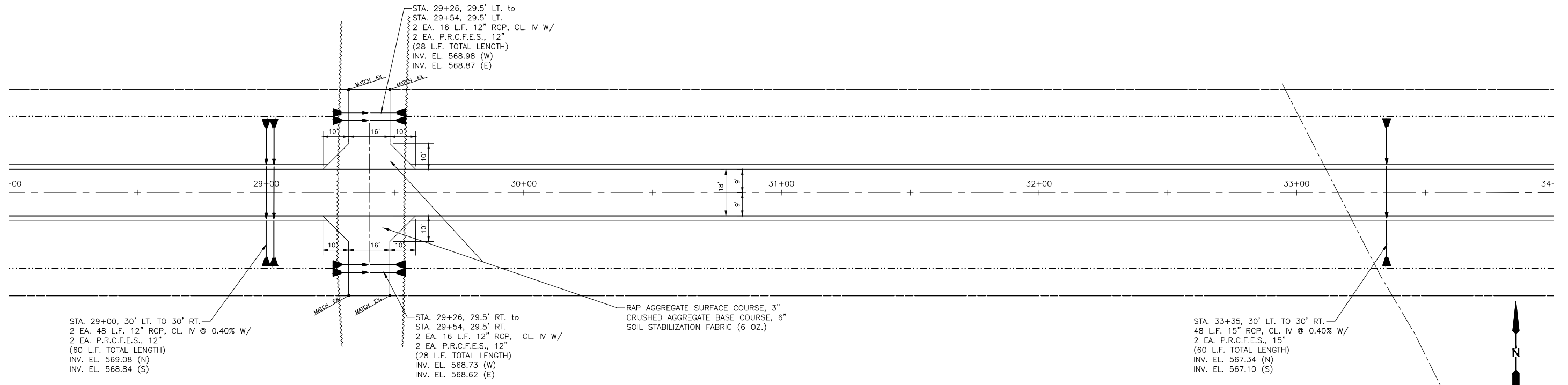

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MORRIS AIRPORT ACCESS ROAD
 CITY OF MORRIS, GRUNDY COUNTY, ILLINOIS

PLAN & PROFILE

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 FOR CONSTRUCTION

CURRENT AS OF: 03/08/13	SHEET 15
SCALE: 1" = 20'	OF 38
FILE NO.:	



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CHECKED BY: RTS	LEVEL	BY	DATE	DESCRIPTION
CREATED: 3/5/12	1	MAB	3/8/13	REVISED PER IDA COMMENTS

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PERU MORRIS
ILLINOIS

MORRIS AIRPORT ACCESS ROAD
CITY OF MORRIS, GRUNDY COUNTY, ILLINOIS

PLAN & PROFILE

APPROVED FOR CONSTRUCTION

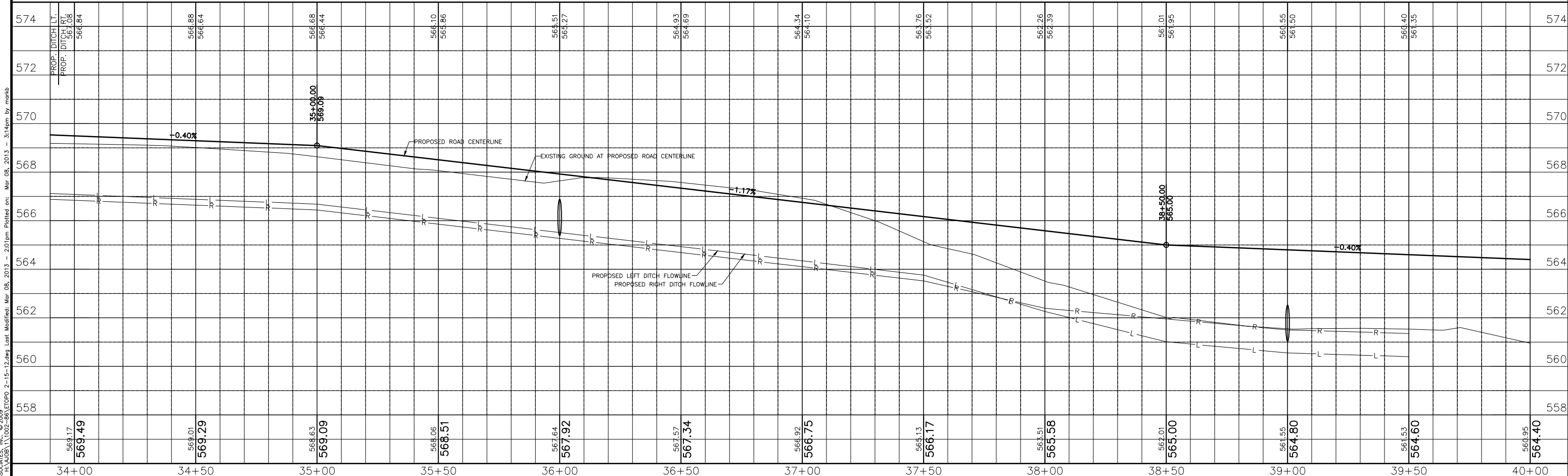
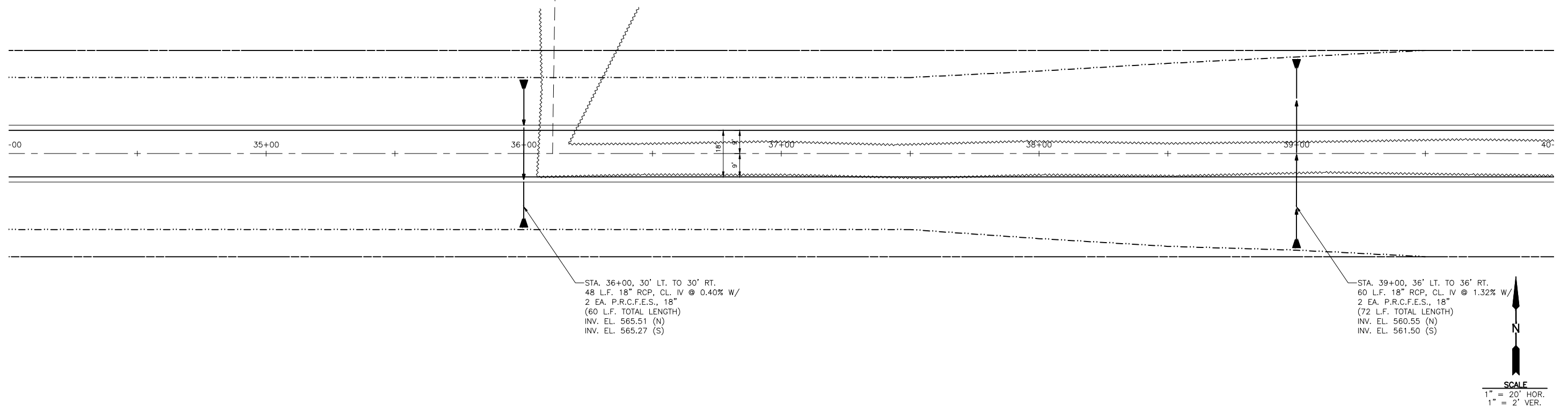
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SCALE: 1" = 20'

FILE NO.:

SHEET 16 OF 38

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Drawing Name: H:\A\08\11\02-86\ETOP0 2-15-12.dwg Last Modified: Mar 08, 2013 - 2:01pm Plotted on: Mar 08, 2013 - 3:13pm by marb



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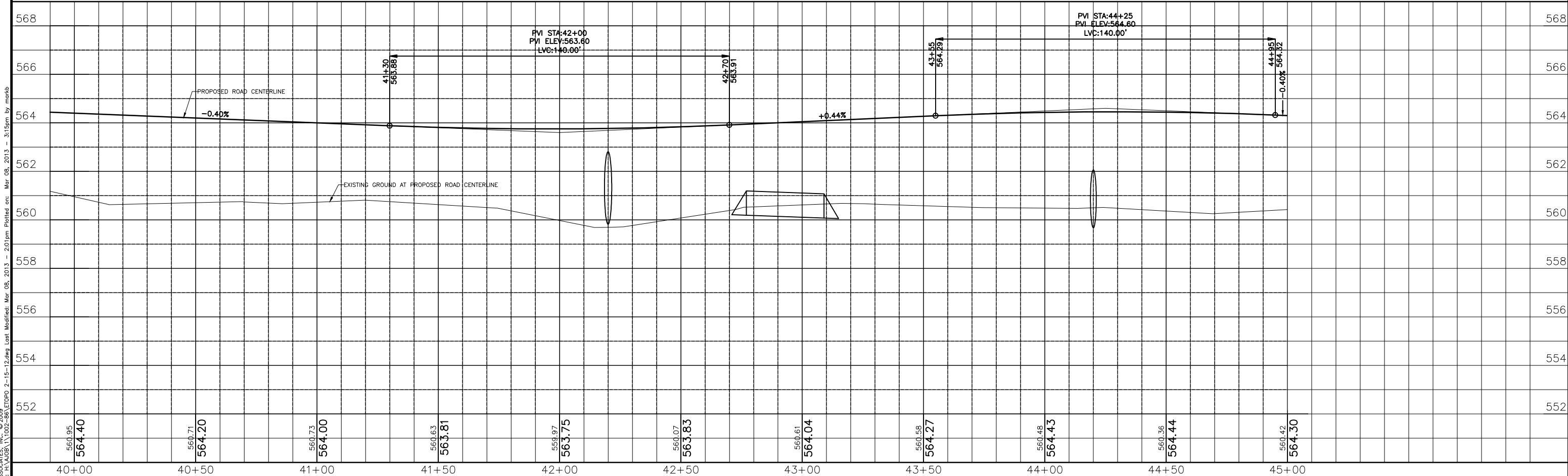
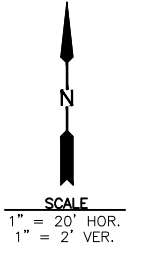
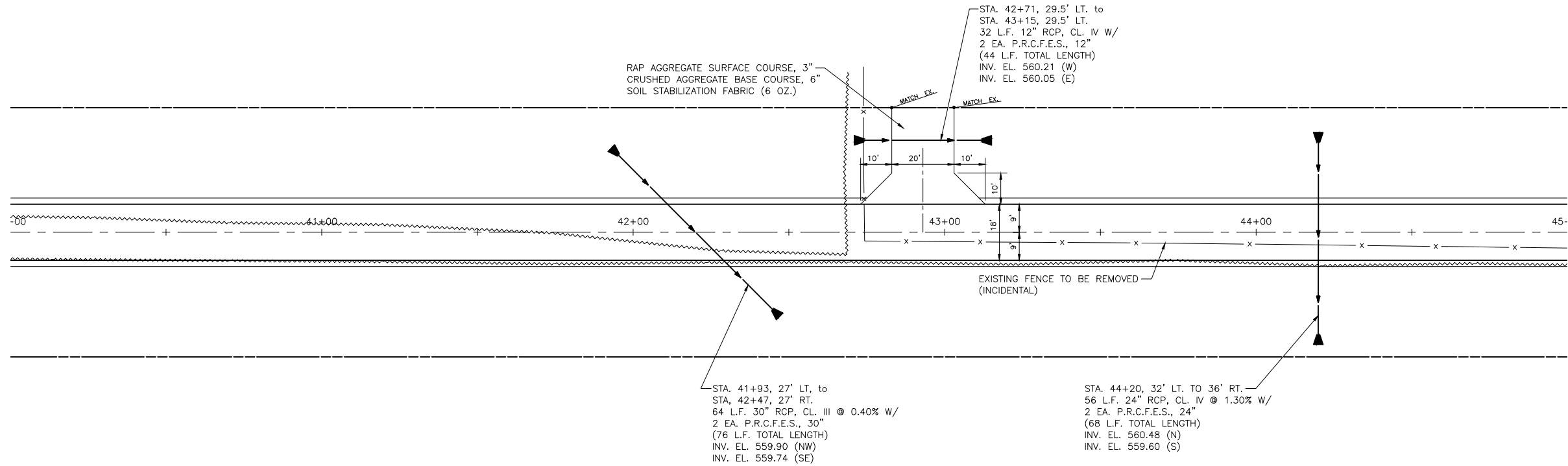
PERU MORRIS
 ILLINOIS

MORRIS AIRPORT ACCESS ROAD
 CITY OF MORRIS, GRUNDY COUNTY, ILLINOIS

PLAN & PROFILE

APPROVED
 FOR CONSTRUCTION

CURRENT AS OF: 03/08/13	SHEET 17
SCALE: 1" = 20'	OF 38
FILE NO.:	



560.95	560.71	560.73	560.63	559.97	560.07	560.61	560.58	560.48	560.36	560.42
564.40	564.20	564.00	563.81	563.75	563.83	564.04	564.27	564.43	564.44	564.30
40+00	40+50	41+00	41+50	42+00	42+50	43+00	43+50	44+00	44+50	45+00

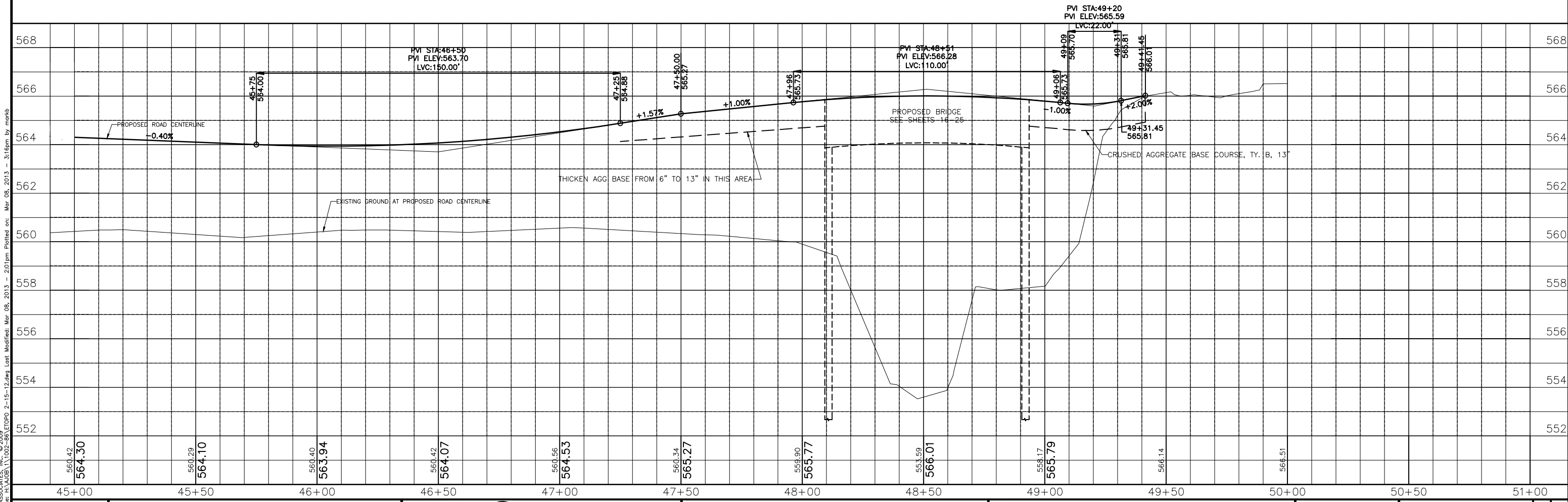
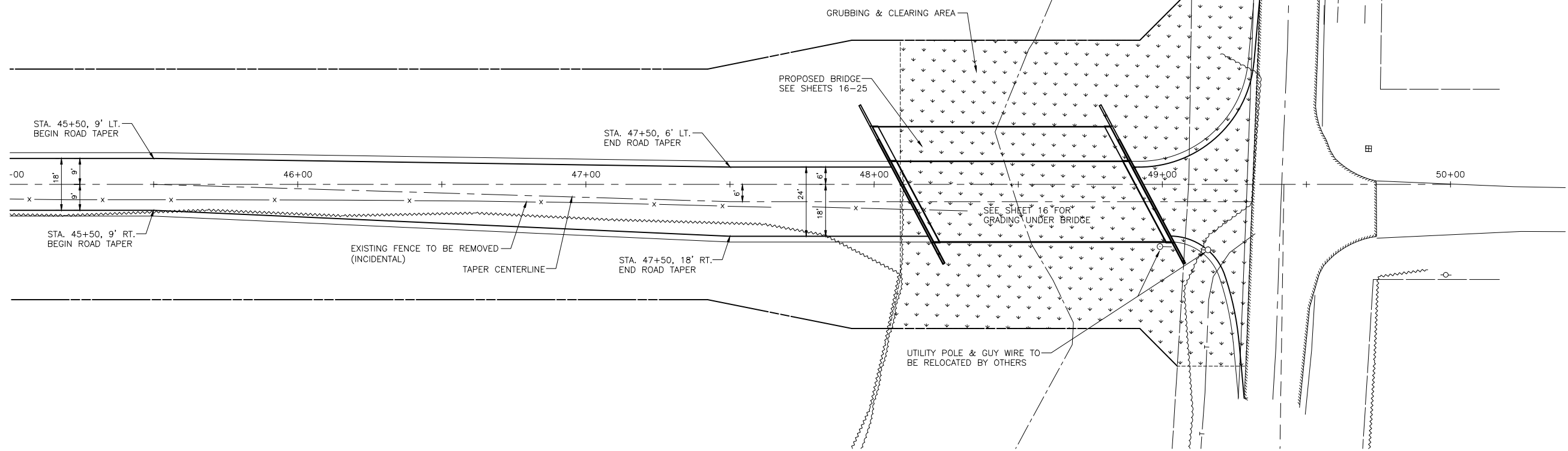
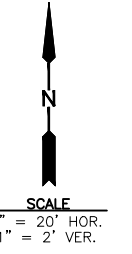
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CHECKED BY: RTS	LEVEL 1	BY MAB	DATE 3/8/13
		REVISOR	DESCRIPTION
			REVISED PER IDA COMMENTS

CHAMLIN & ASSOCIATES
 PERU MORRIS ILLINOIS
MORRIS AIRPORT ACCESS ROAD
 CITY OF MORRIS GRUNDY COUNTY ILLINOIS

PLAN & PROFILE

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 CURRENT AS OF: 03/08/13
 SCALE: 1" = 20'
 SHEET 18

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 Drawing Name: H:\A\0811\1002-86\ETOP0 2-15-12.dwg Last Modified: Mar 08, 2013 - 2:01pm Plotted on: Mar 08, 2013 - 3:15pm by marib



560.42 564.30	560.29 564.10	560.40 563.94	560.42 564.07	560.56 564.53	560.34 565.27	559.90 565.77	553.59 566.01	558.17 563.79	566.14	566.51
45+00	45+50	46+00	46+50	47+00	47+50	48+00	48+50	49+00	49+50	50+00

MORRIS AIRPORT ACCESS ROAD
 CITY OF MORRIS, GRUNDY COUNTY, ILLINOIS

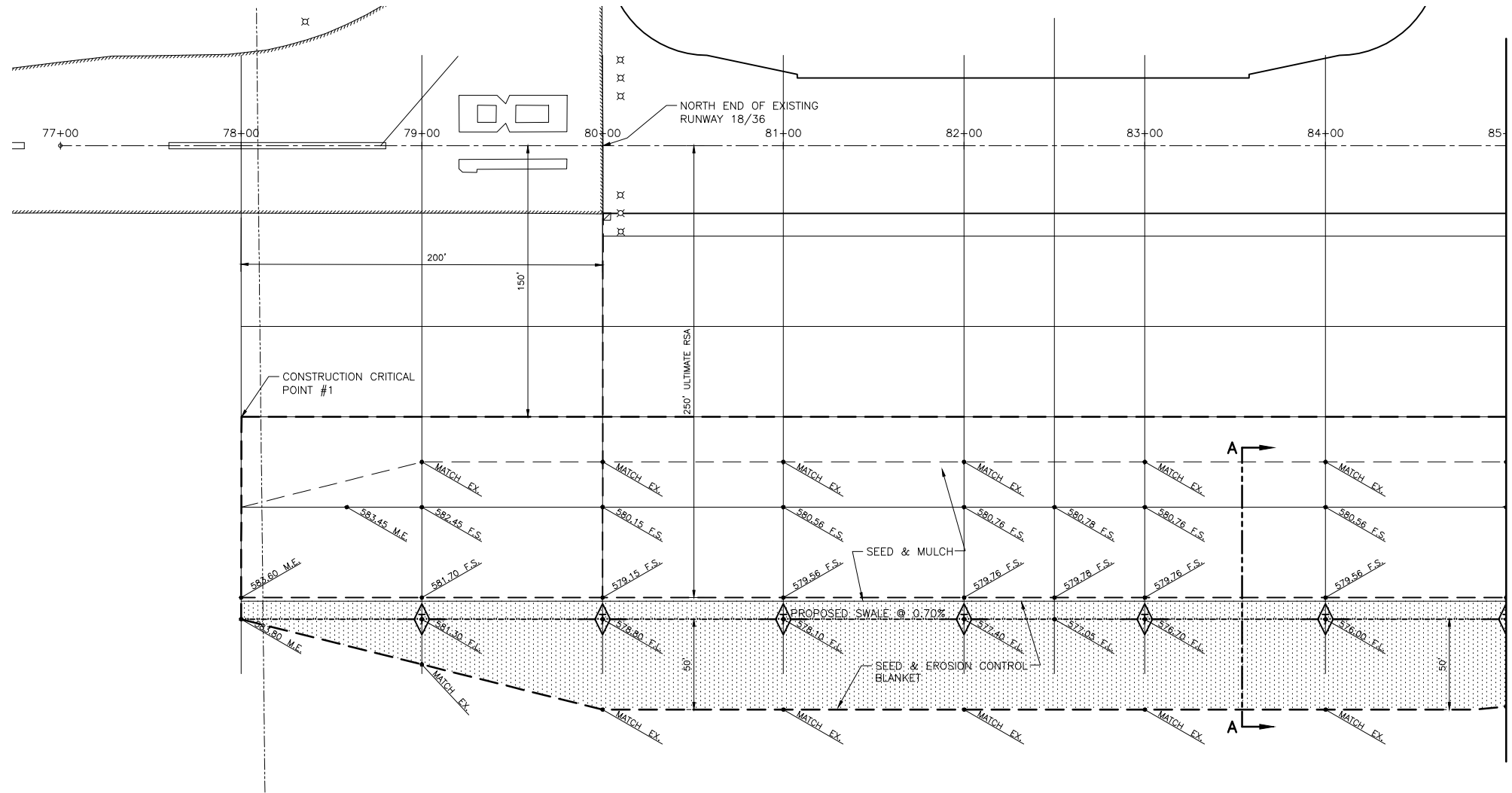
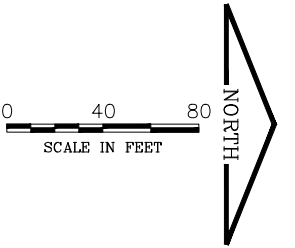
PLAN & PROFILE

APPROVED FOR CONSTRUCTION
 CURRENT AS OF: 03/08/13
 SCALE: 1" = 20'
 SHEET 19 OF 38

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 CHECKED BY: RTS
 CREATED: 3/5/12

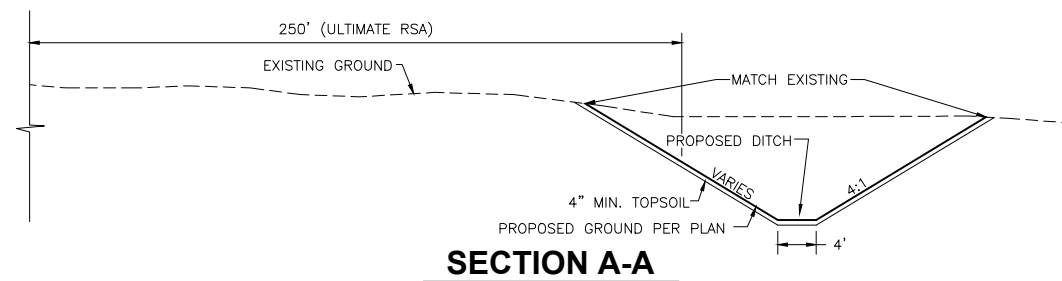
LEVEL	BY	DATE	REVISIONS	DESCRIPTION
1	MAB	3/8/13	REVISED PER IDA COMMENTS	



MATCHLINE STA. 85+00 SEE SHEET 15

LEGEND

	SILT FENCE
	TEMPORARY DITCH CHECK
	EROSION CONTROL BLANKET



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Drawing Name: H:\A\DR\1\1002-86\ETOPD 2-15-12.dwg Last Modified: Mar 08, 2013 - 2:01pm Plotted on: Mar 08, 2013 - 3:17pm by markb

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CHECKED BY: RTS	LEVEL	BY	DATE	DESCRIPTION
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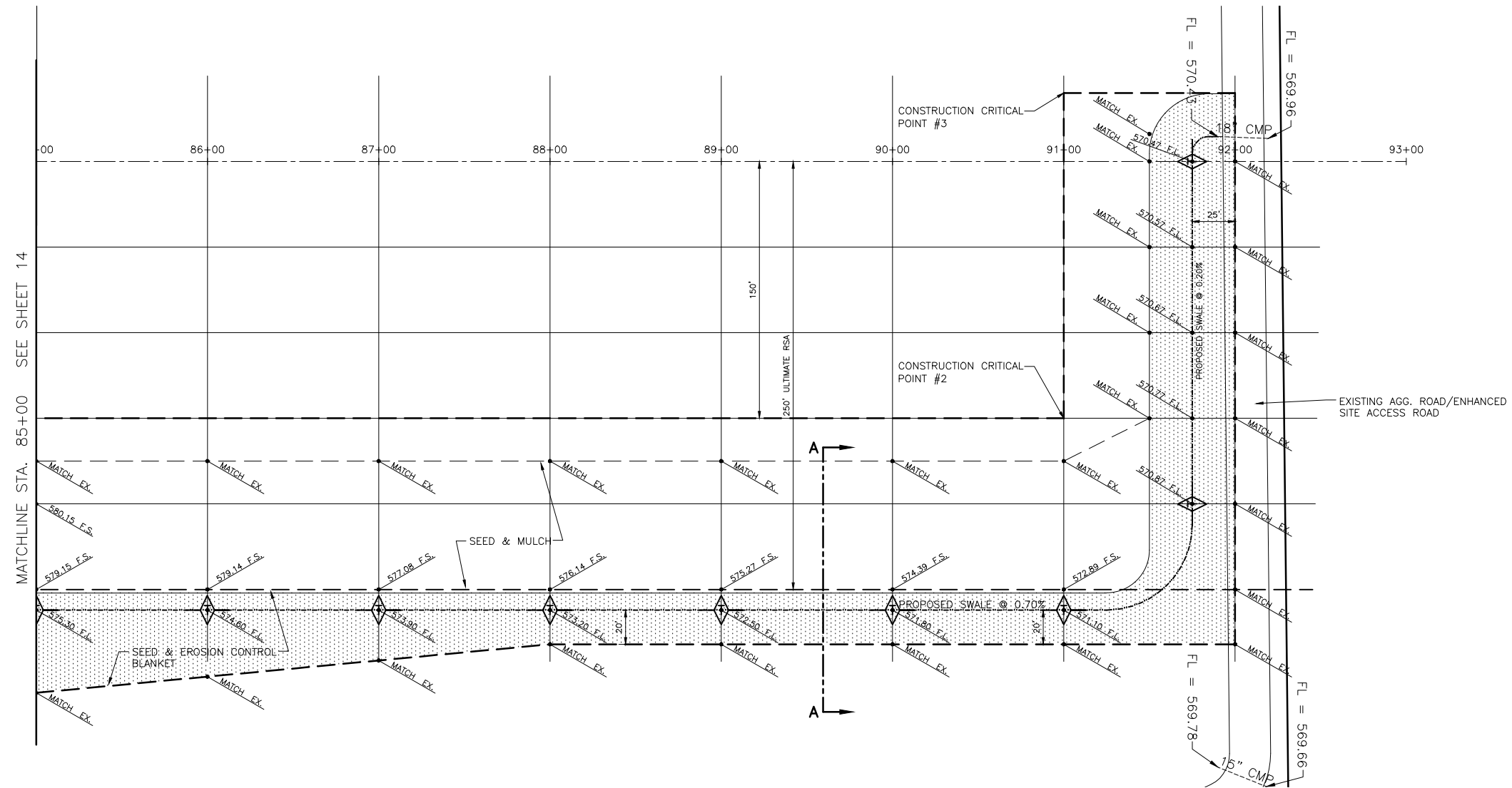
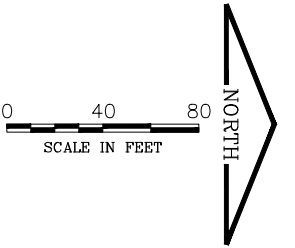
CHAMLIN & ASSOCIATES
PERU MORRIS
ILLINOIS

MORRIS AIRPORT ACCESS ROAD
CITY OF MORRIS, GRUNDY COUNTY, ILLINOIS

DITCH GRADING PLAN

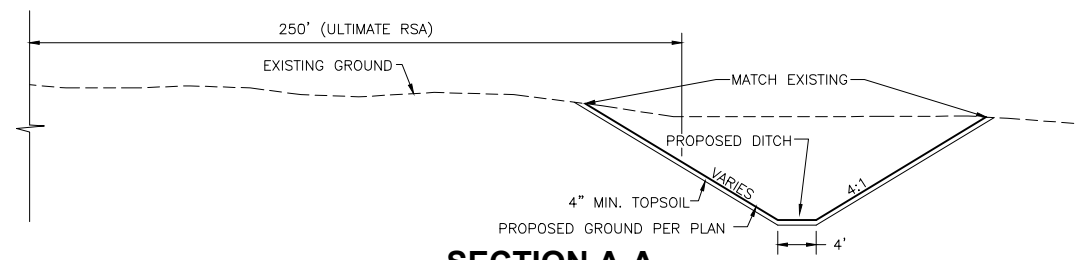
APPROVED
FOR CONSTRUCTION

CURRENT AS OF: 03/08/13	SHEET 20
SCALE: 1 = 40	OF 38
FILE NO.:	



LEGEND

- SILT FENCE
- TEMPORARY DITCH CHECK
- EROSION CONTROL BLANKET



SECTION A-A

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Drawing Name: H:\A\DR\11\1002-88\ETOP0 2-15-12.dwg Last Modified: Mar 08, 2013 - 2:01pm Plotted on: Mar 08, 2013 - 3:19pm by markb

DRAWN BY: MAB	REVISIONS			
CHECKED BY: RTS	LEVEL	BY	DATE	DESCRIPTION
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ILLINOIS

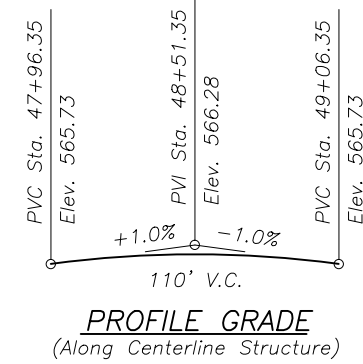
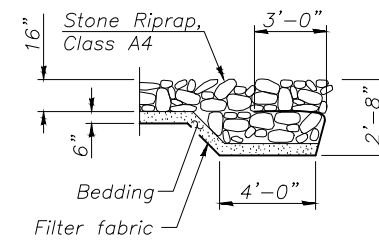
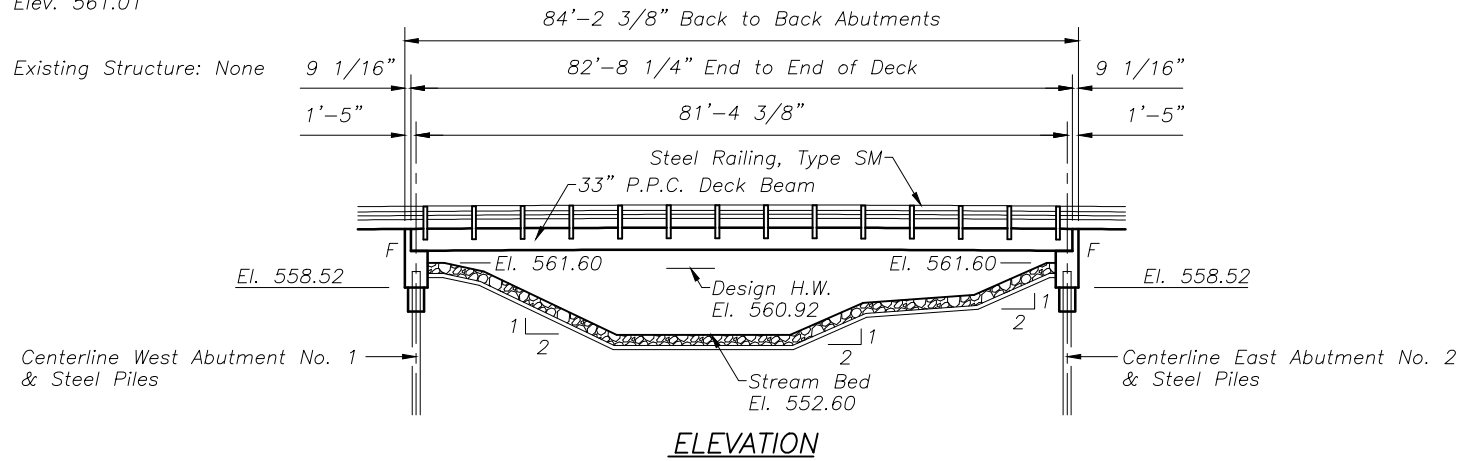
MORRIS AIRPORT ACCESS ROAD
CITY OF MORRIS, GRUNDY COUNTY, ILLINOIS

DITCH GRADING PLAN

APPROVED
FOR CONSTRUCTION

CURRENT AS OF: 03/08/13	SHEET 21
SCALE: 1 = 40	OF 38
FILE NO.:	

Bench Mark:
Railroad spike in power pole 200'± south of
Whitman Road on west side of Ashley Road.
Elev. 561.01



VALLEY RUN
BUILT 20__ BY
CITY OF MORRIS
STATION 48+51.35
STR. NO. 032-7013 LOADING HL-93

NAME PLATE
See Std. 515001

GENERAL NOTES

Bridge construction shall be in accordance with the Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, adopted January 1, 2012, the Illinois Department of Transportation Supplemental and Recurring Special Provisions, adopted January 1, 2012, the special provisions, and these plans.

Reinforcement bars designated (E) shall be epoxy coated.

Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the engineer.

The cost for excavation at the abutments shall be considered as included in the contract unit price for Concrete Structures.

INDEX OF SHEETS

- 1 General Plan
- 2 Superstructure Details
- 3-4 PPC Deck Beam Details
- 5 Steel Railing, Type SM
- 6 West Abutment Details
- 7 East Abutment Details
- 8 Pile Details
- 9-10 Soil Boring Sheets

DESIGN SPECIFICATIONS

2012 AASHTO LRFD Bridge Design Specifications, 6th Edition

DESIGN STRESSES

Precast units:
f'c = 6,000 psi
f'ci = 5,000 psi
fs' = 270,000 psi (1/2 Dia. Strand)
fs'i = 201,960 psi (1/2 Dia. Strand)
fy = 65,000 psi (Welded wire fabric)
fy = 60,000 psi (Reinf.)
Field units:
f'c = 3,500 psi
fy = 60,000 psi (Reinf.)

LOADING HL-93

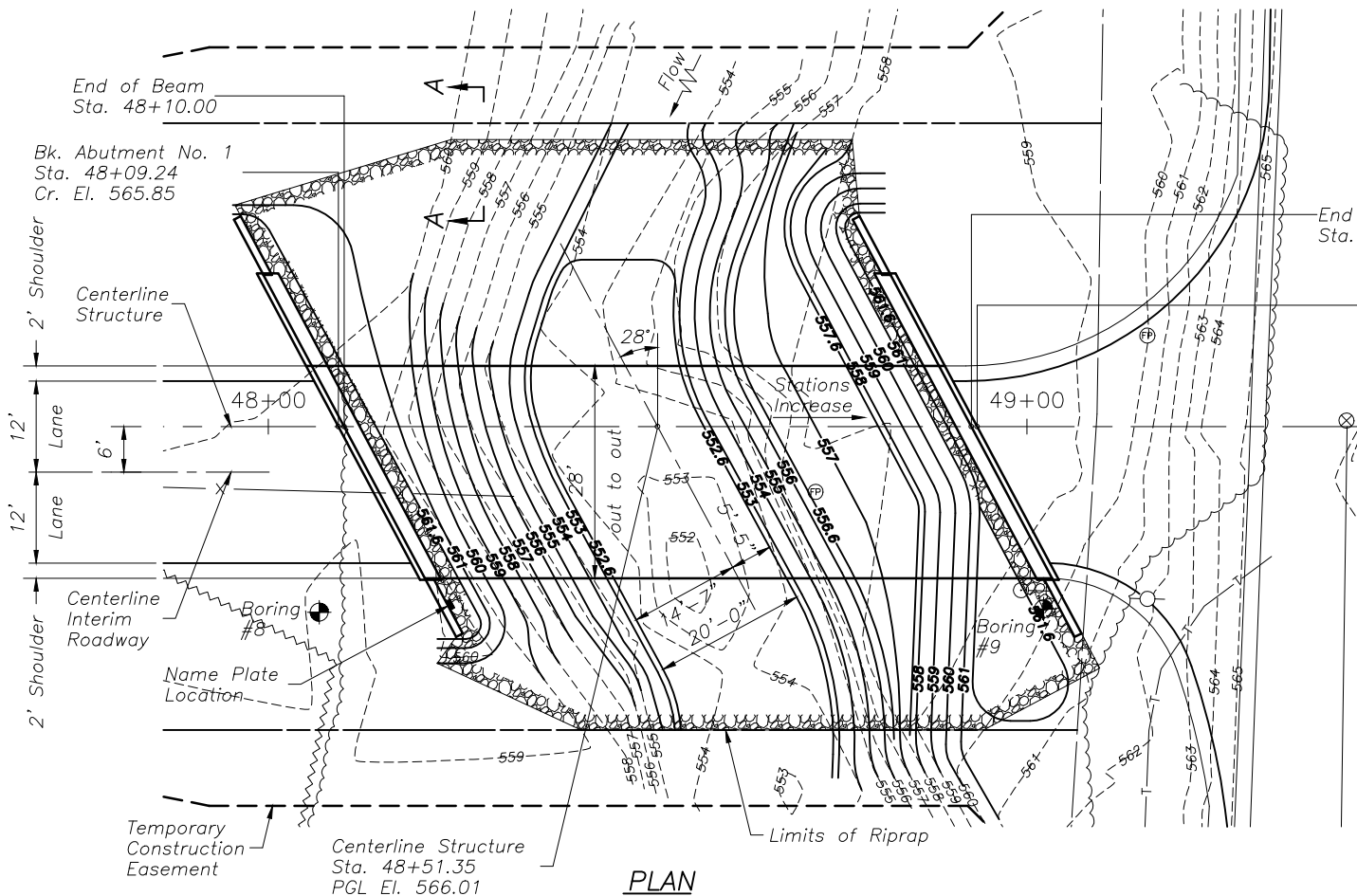
Allow 50#/sq. ft. for future wearing surface.

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (SD1) = 0.056g
Design Spectral Acceleration at 0.2 sec. (SDS) = 0.130g
Soil Site Class = C

TOTAL BILL OF MATERIAL

ITEM NO.	ITEM	UNIT	SUPER	SUB	TOTAL
AR 156544	Stone Riprap, Class A4	Sq Yd	--	712	712
AR 801328	Concrete Structures	Cu Yd	--	45.4	45.4
AR 801329	Concrete Encasement	Cu Yd	--	4.8	4.8
AR 801330	Precast Prestressed Concrete Deck Beams (33" Depth)	Sq Ft	2315	--	2315
AR 801331	Reinforcement Bars, Epoxy Coated	Pound	--	3860	3860
AR 801332	Steel Railing, Type SM	Foot	166	--	166
AR 801333	Furnishing Steel Piles HP12x53	Foot	--	372	372
AR 801334	Driving Piles	Foot	--	372	372
AR 801335	Test Pile Steel HP12x53	Each	--	2	2
AR 801336	Name Plates	Each	--	1	1



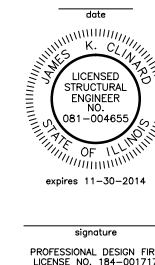
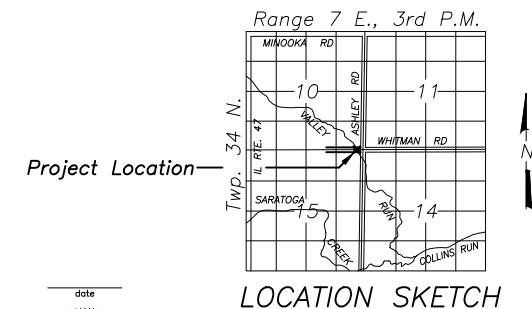
DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	W. Abut.	E. Abut.
	559.02	559.02

WATERWAY INFORMATION

Drainage Area = 13.8 Sq. Mi. Low Grade Elev. 563.94 @ Sta. 48+06

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Prop.	Headwater El. Prop.
Design	10	933	305	560.3	--	560.2
Base	50	1380	342	560.9	0.1	561.0
Overtopping	100	1560	361	561.2	0.1	561.3
Max. Calc.	500	1990	387	561.6	0.3	561.9



I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current "AASHTO LRFD Bridge Design Specifications".

GENERAL PLAN
WHITMAN ROAD OVER VALLEY RUN
GRUNDY COUNTY
STA. 48+51.35
SN 032-7013

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LEVEL	BY	DATE	DESCRIPTION
1	MAB	3/8/13	REVISED PER IDA COMMENTS

DATE: 12/12

CHAMLIN & ASSOCIATES

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MORRIS AIRPORT ACCESS ROAD
CITY OF MORRIS, GRUNDY COUNTY, ILLINOIS

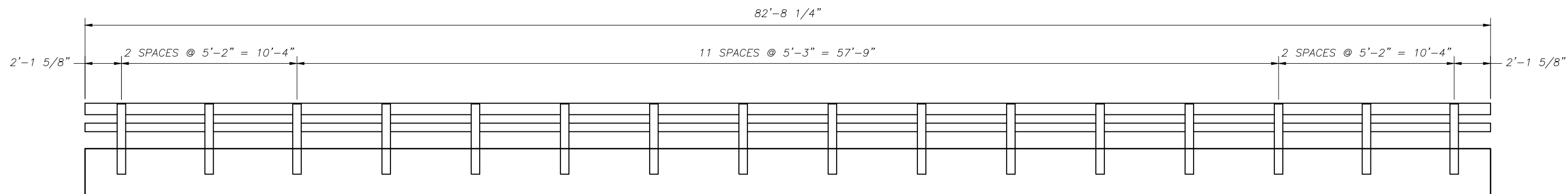
GENERAL PLAN
STRUCTURE NO. 032-7013
SHEET NO. 1 OF 10 SHEETS

APPROVED FOR CONSTRUCTION

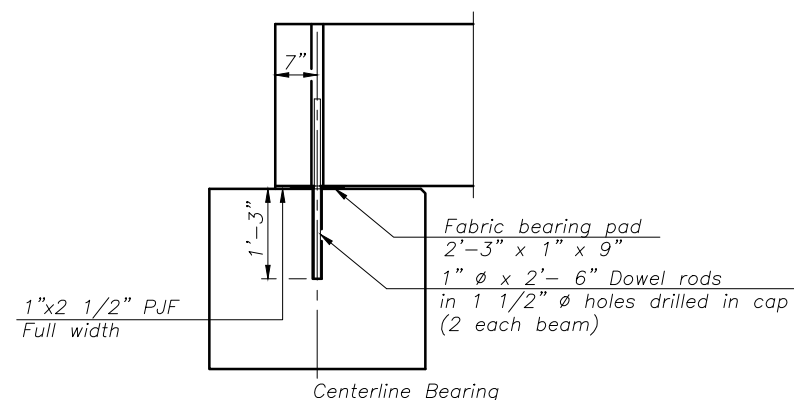
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SCALE: AS NOTED SHEET 22

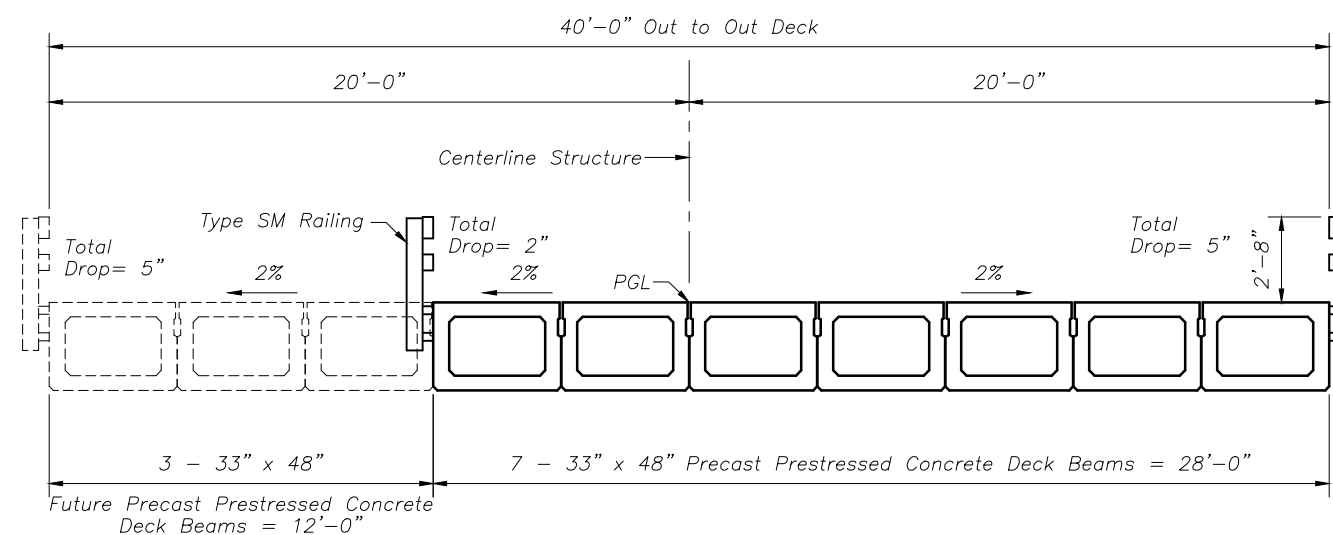
FILE NO.: 1002.86 OF 38



RAIL POST SPACING DETAIL



SECTION THRU ABUTMENT



CROSS SECTION

Notes:

After beams have been erected, holes shall be drilled into substructure and anchor dowels placed. Dowel holes shall be filled with non-shrink grout to top of beam and allowed to cure min. 24 hrs. prior to grouting the shear keys.
 All horizontal dimensions are at right angles to beam ends.
 See sheets 4 of 10 for bearing pad details.

Dimensions are at Rt L's to centerline Abutment.

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CHECKED BY: JKC	LEVEL	BY	DATE	DESCRIPTION
DATE: 12/12	1	MAB	3/8/13	REVISED PER IDA COMMENTS

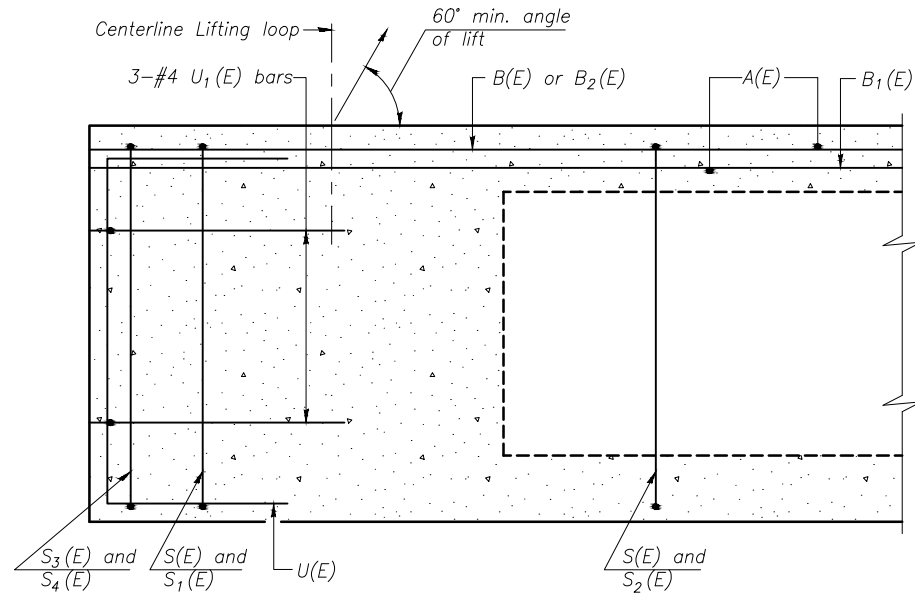
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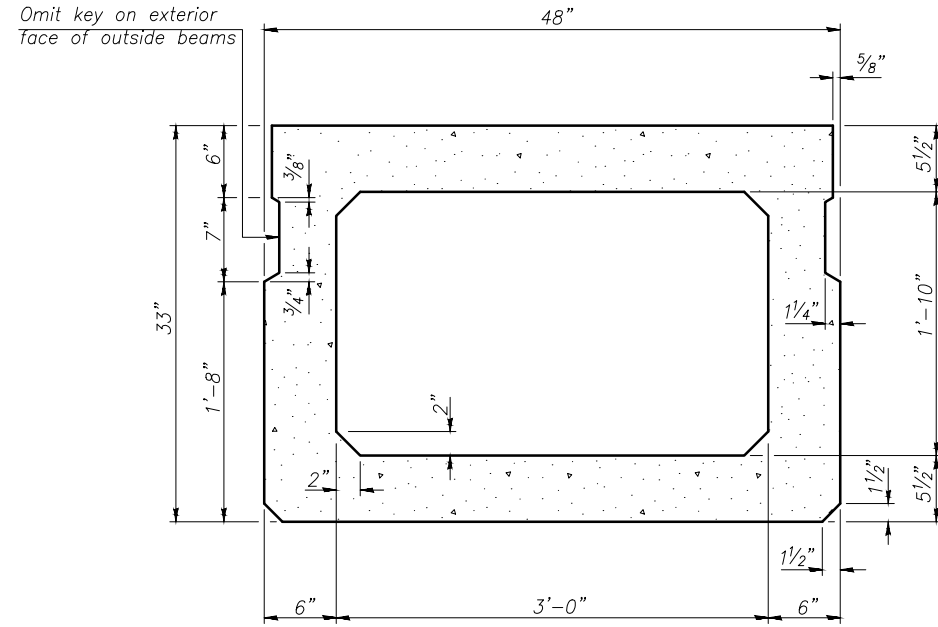
SUPERSTRUCTURE DETAILS
STRUCTURE NO. 032-7013
 SHEET NO. 2 OF 10 SHEETS

APPROVED FOR CONSTRUCTION

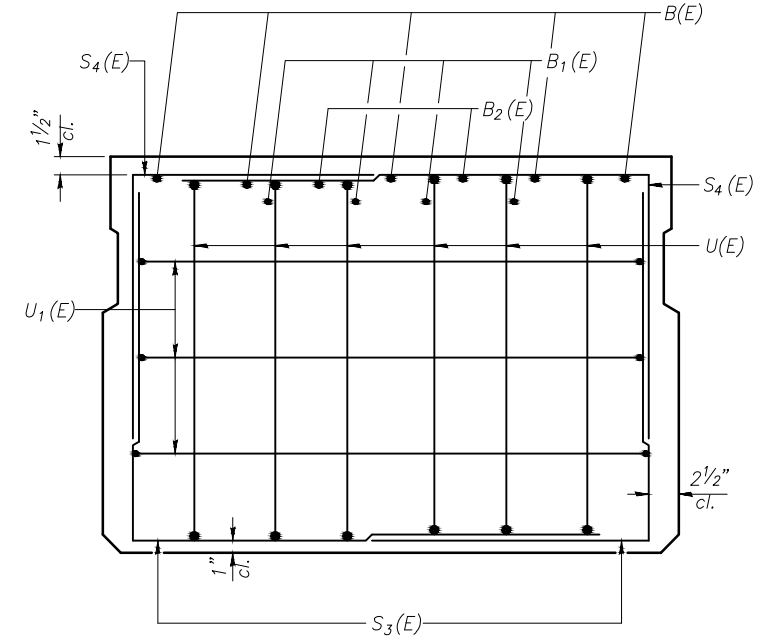
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SCALE: AS NOTED	SHEET 23
FILE NO.: 1002.86	OF 38



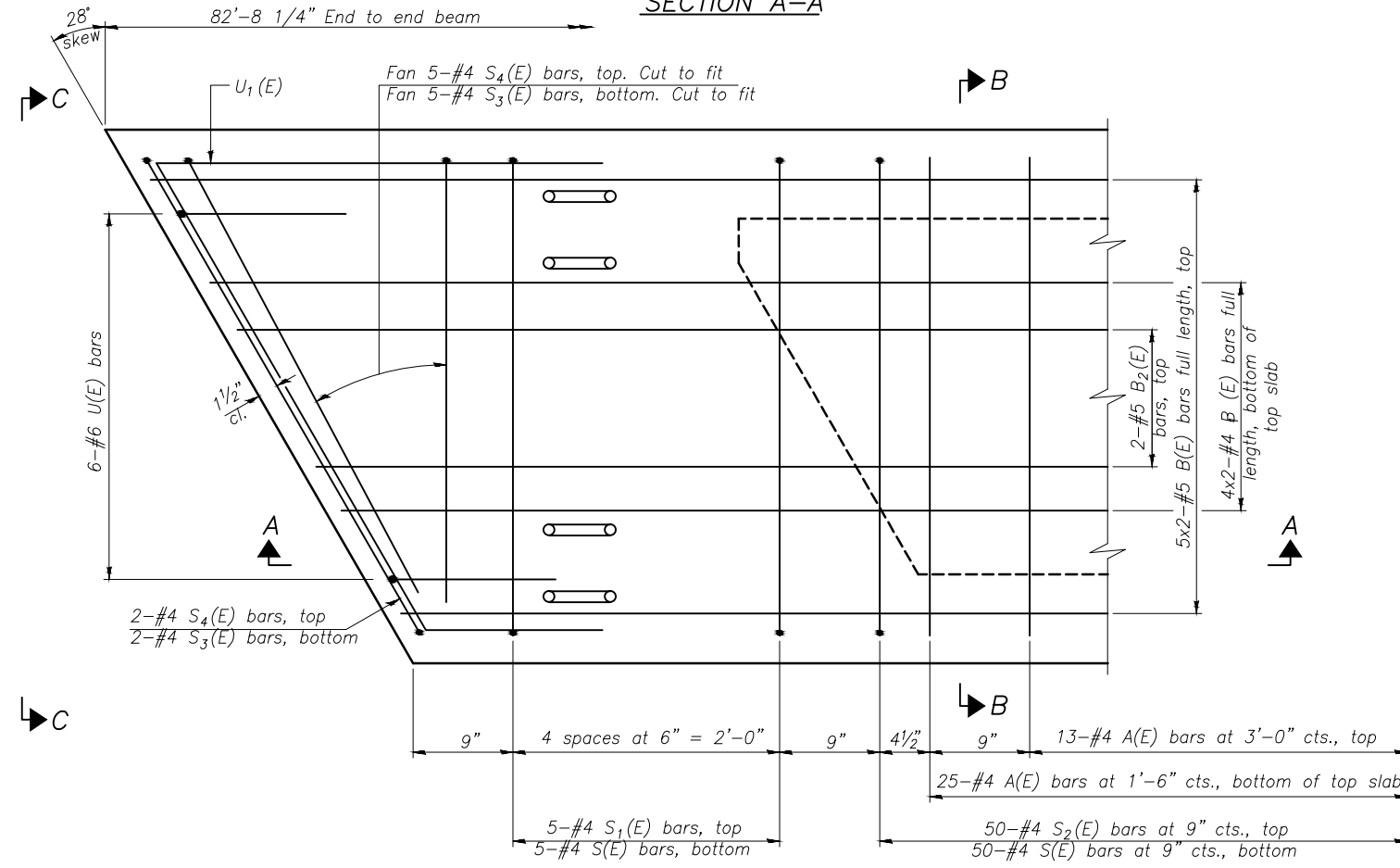
SECTION A-A



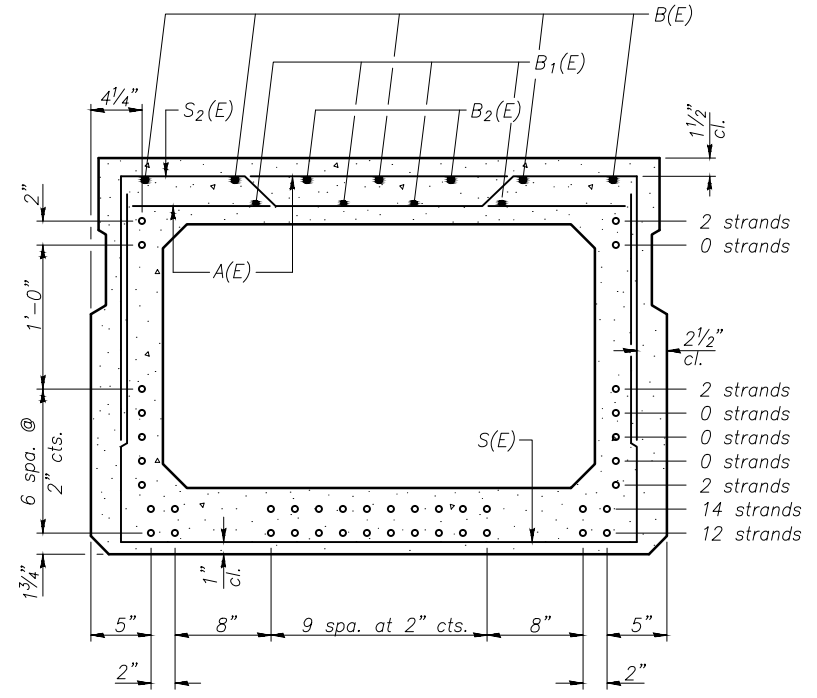
SECTION B-B
(Showing dimensions)



VIEW C-C



PLAN VIEW



SECTION B-B

(Showing reinforcement and permissible strand locations)
Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)	76	#4	3'-7"	—
B(E)	10	#5	42'-6"	—
B1(E)	8	#4	42'-3"	—
B2(E)	4	#5	10'-0"	—
S(E)	109	#4	8'-5"	—
S1(E)	10	#4	7'-3"	┌┐
S2(E)	109	#4	7'-6"	┌┐
S3(E)	14	#4	6'-5"	┌┐
S4(E)	14	#4	6'-10"	┌┐
U(E)	12	#6	5'-0"	┌┐
U1(E)	6	#4	8'-4"	┌┐

Note: See sheet 4 of 10 for additional details and Bill of Material.

MINIMUM BAR LAP
#4 bar = 2'-0"
#5 bar = 2'-6"

Note: Spacing of S(E) and S2(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.

PD-3348-R 7-1-10

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DATE: 12/12					

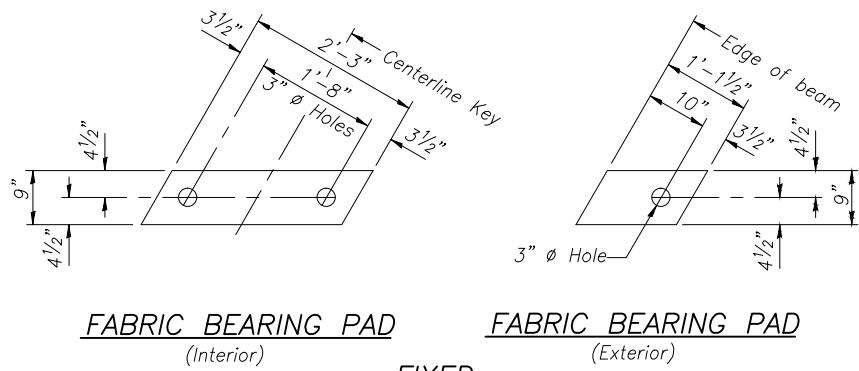
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PERU MORRIS ILLINOIS

MORRIS AIRPORT ACCESS ROAD
CITY OF MORRIS, GRUNDY COUNTY, ILLINOIS

33" x 48" PPC DECK BEAM DETAILS
STRUCTURE NO. 032-7013
SHEET NO. 3 OF 10 SHEETS

APPROVED FOR CONSTRUCTION

CURRENT AS OF: 3/8/13	SHEET 24
SCALE: AS NOTED	OF 38
FILE NO.: 1002.86	

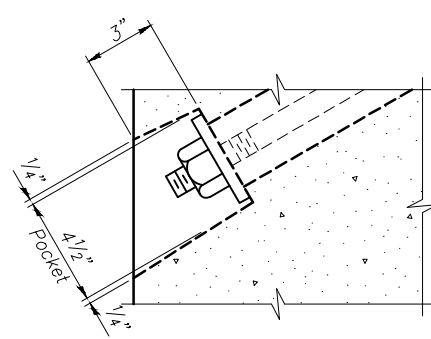


FABRIC BEARING PAD
(Interior)

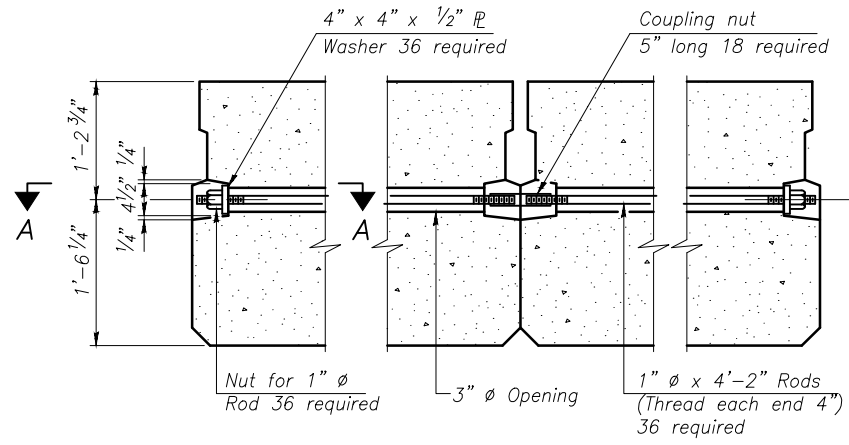
FABRIC BEARING PAD
(Exterior)

FIXED

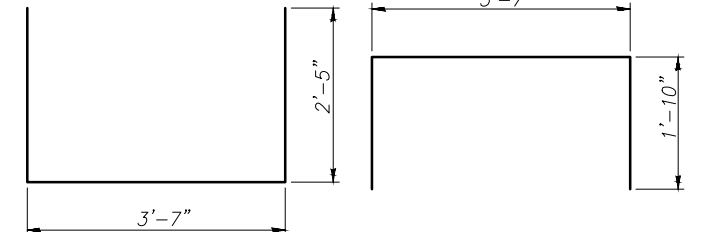
Notes:
All bearing pads shall be 1" thick.
Omit holes when using expansion bearings.
Expansion bearing pad shall be bonded to the substructure.



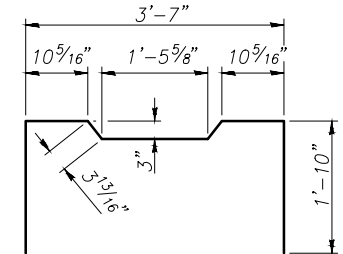
SECTION A-A



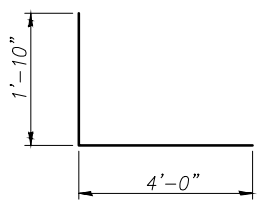
TYPICAL TRANSVERSE TIE ASSEMBLY



BAR S(E)

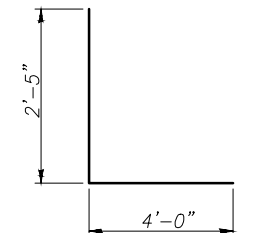


BAR S2(E)

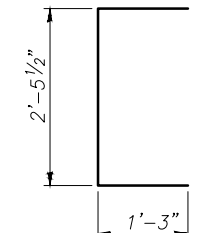


BAR S4(E)

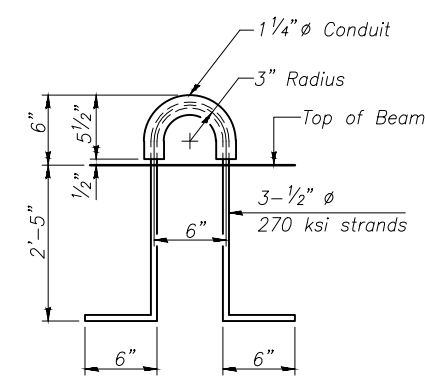
BAR S1(E)



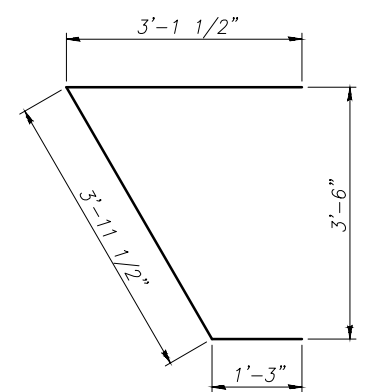
BAR S3(E)



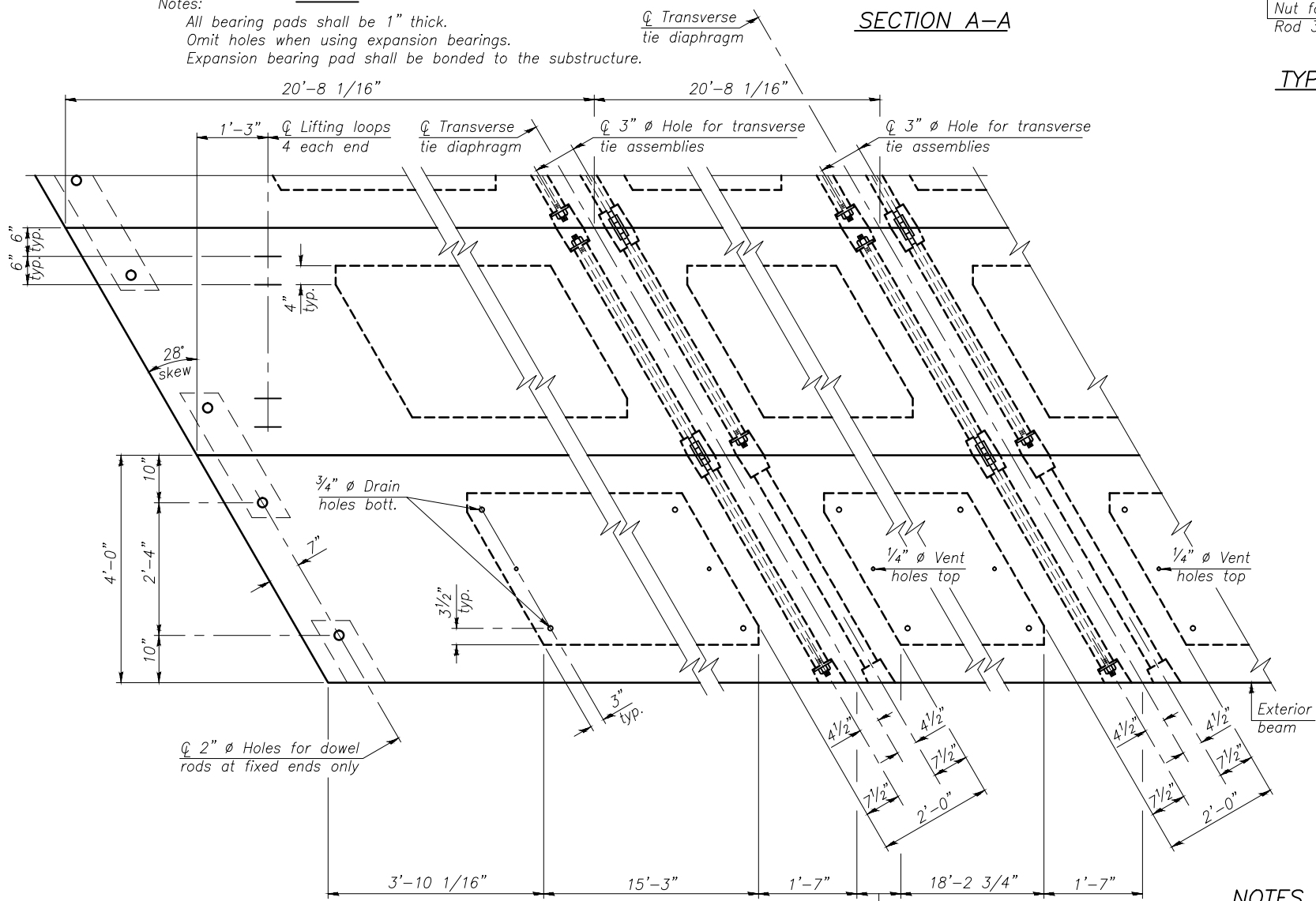
BAR U(E)



LIFTING LOOP DETAIL



BAR U1(E)



PLAN VIEW

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270.
The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in.
The 1" diameter rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.
Reinforcement bars shall conform to ASTM A 706, Grade 60.
Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.
A minimum 1/2" diameter lifting pin shall be used to engage the lifting loops during handling.
Corrosion Inhibitor, per Article 1020.05(b)(12) and 1021.06 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.
Compressive strength of prestressed concrete, f'c, shall be 6000 psi.
Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (33" depth)	Sq. Ft.	2315
---	---------	------

Note: Connect beams in pairs with the transverse tie configuration shown.

PD-3348-RD 7-1-10

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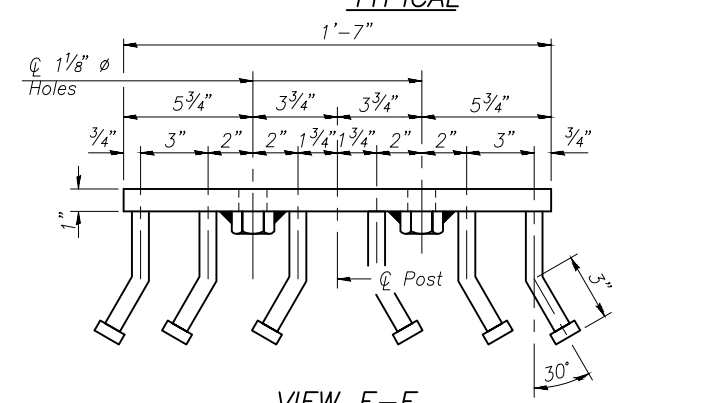
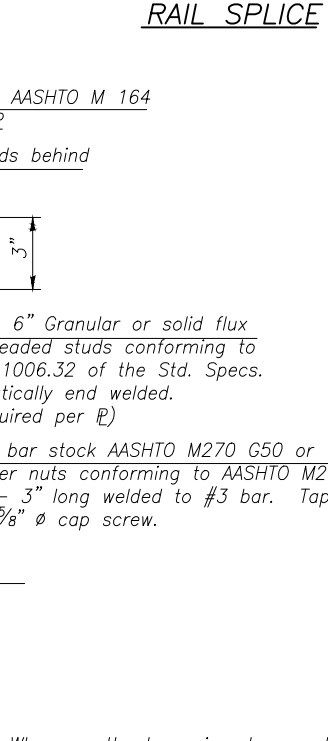
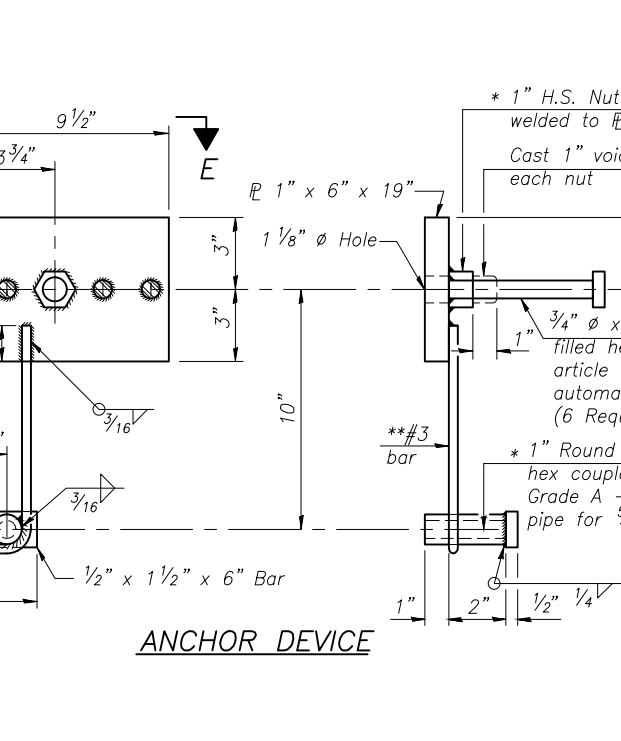
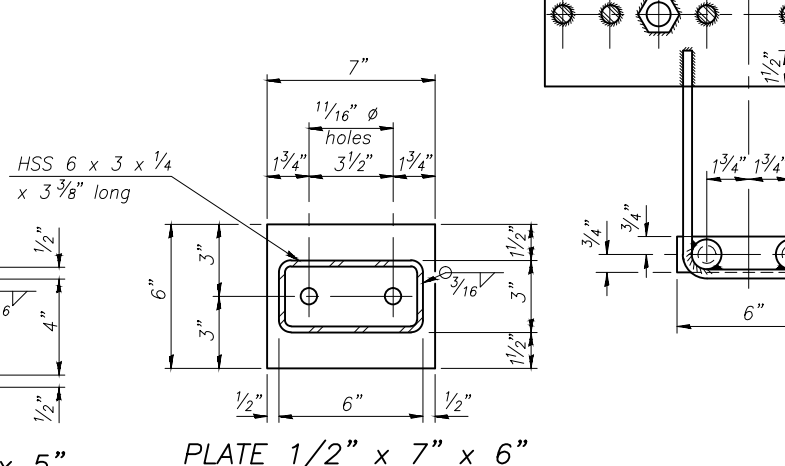
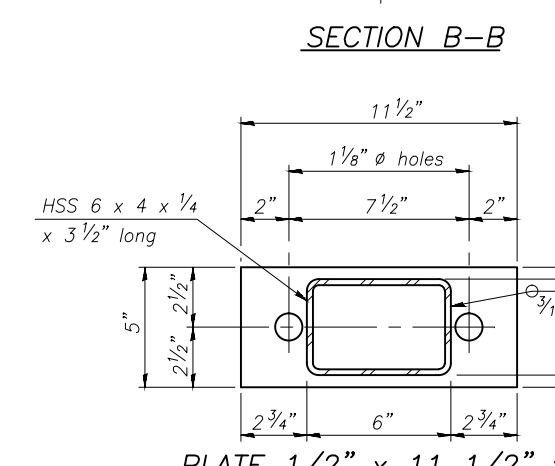
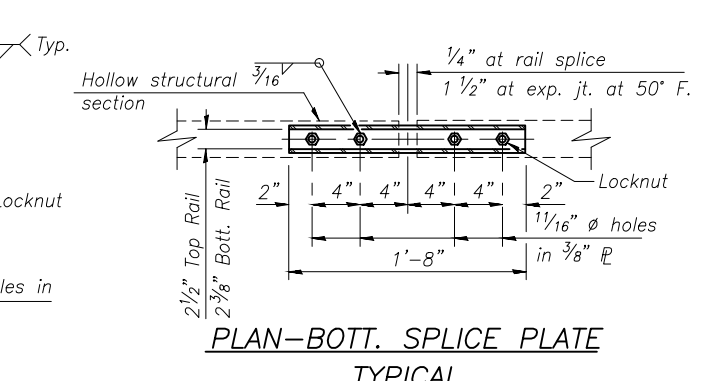
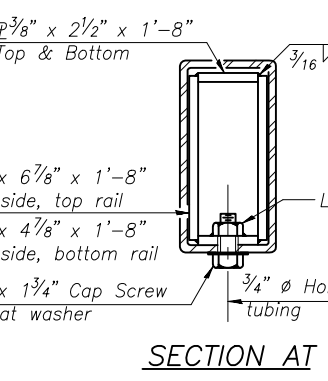
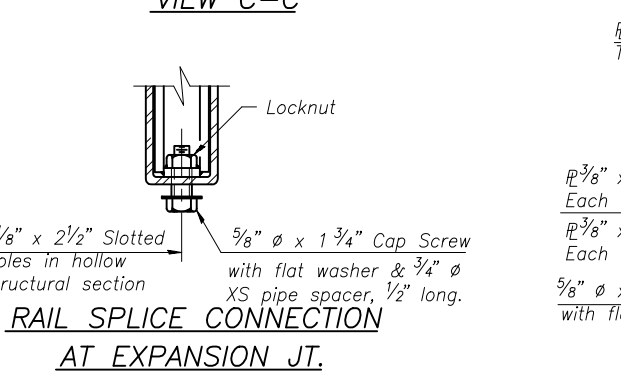
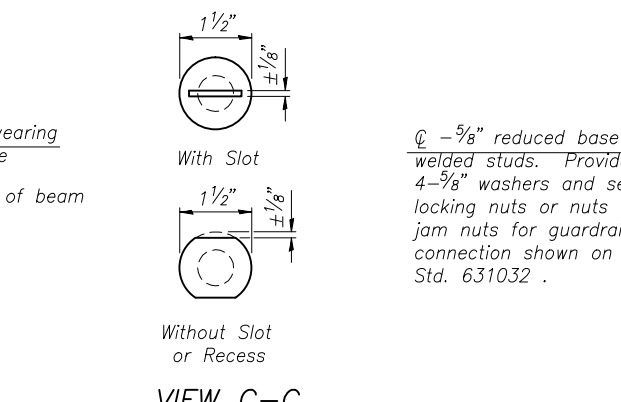
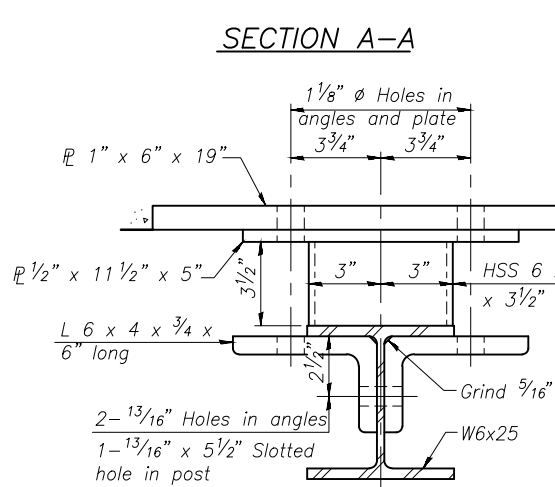
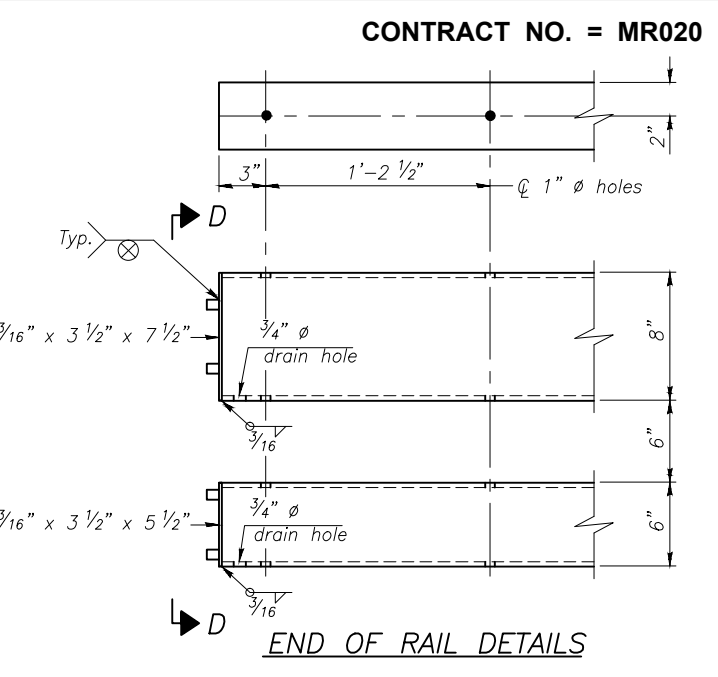
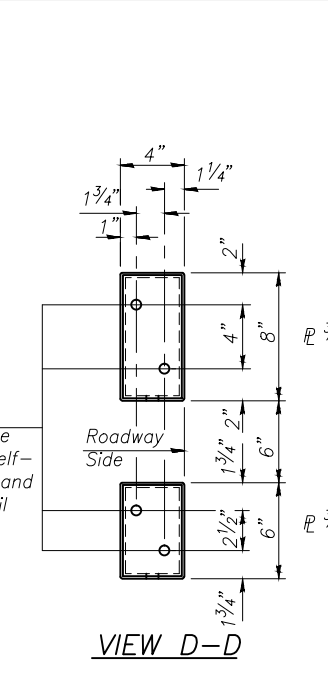
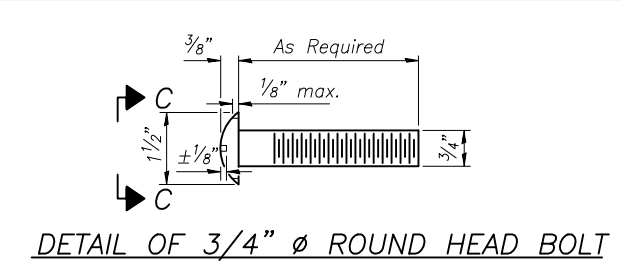
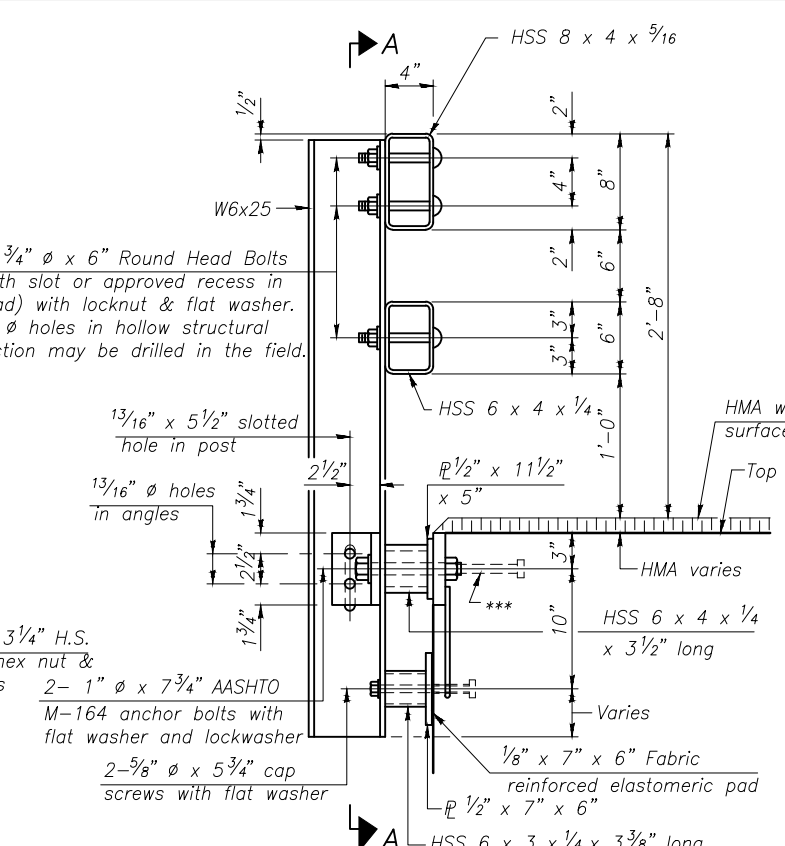
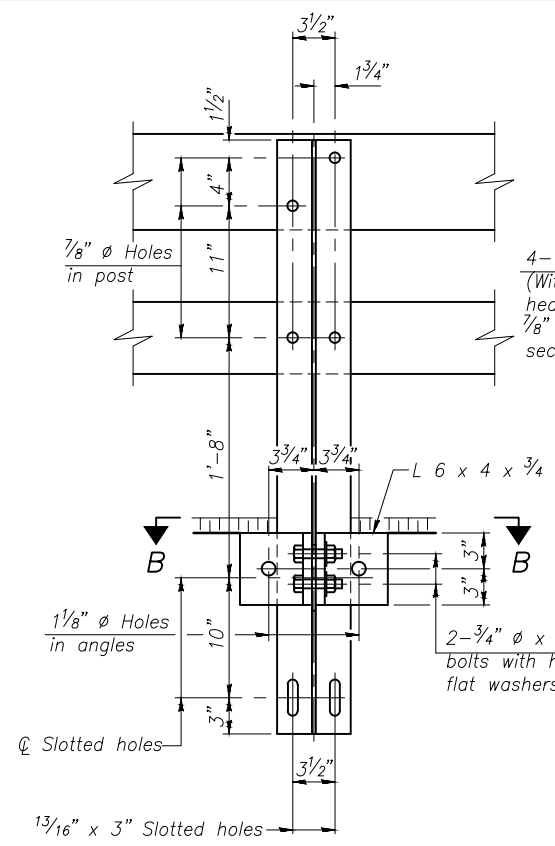
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MORRIS AIRPORT ACCESS ROAD
CITY OF MORRIS, GRUNDY COUNTY, ILLINOIS

33" x 48" PPC DECK BEAM DETAILS
STRUCTURE NO. 032-7013
SHEET NO. 4 OF 10 SHEETS

APPROVED FOR CONSTRUCTION

CURRENT AS OF: 3/8/13	SHEET 25
SCALE: AS NOTED	OF 38
FILE NO.: 1002.86	



Notes:
 All field drilled holes shall be coated with an approved zinc rich paint before erection.
 For multi-span bridges, sufficient 1/4" x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Railing, Type SM.
 All steel rail members shall be galvanized according to Article 509.05 of the Standard Specifications.
 *** The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device.

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type SM	Foot	166

R-34HMAWS 7-1-10 (6'-3" Maximum Post Spacing) (1/4" minimum to 3/8" maximum HMA thickness)

*Threaded areas shall be plugged or blocked off during casting of beam. Galvanized after fabrication.

** Whenever the lower insert assemblies interfere with strand locations, the #3 bars shall be cut and adjusted in order to allow raising or lowering of the lower inserts. Maximum adjustment not to exceed 1/2".

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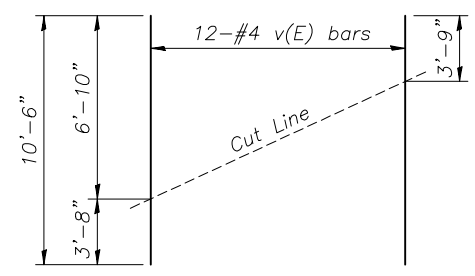
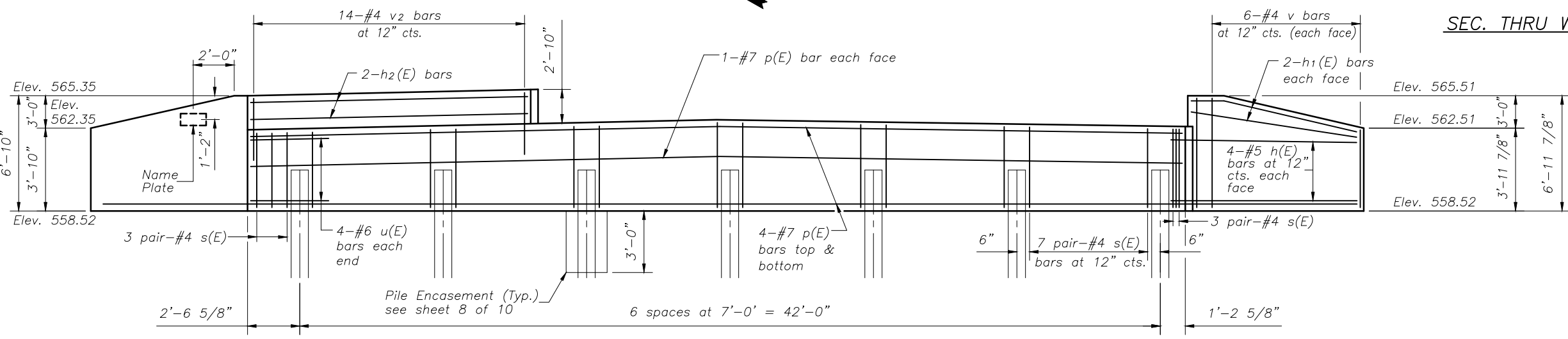
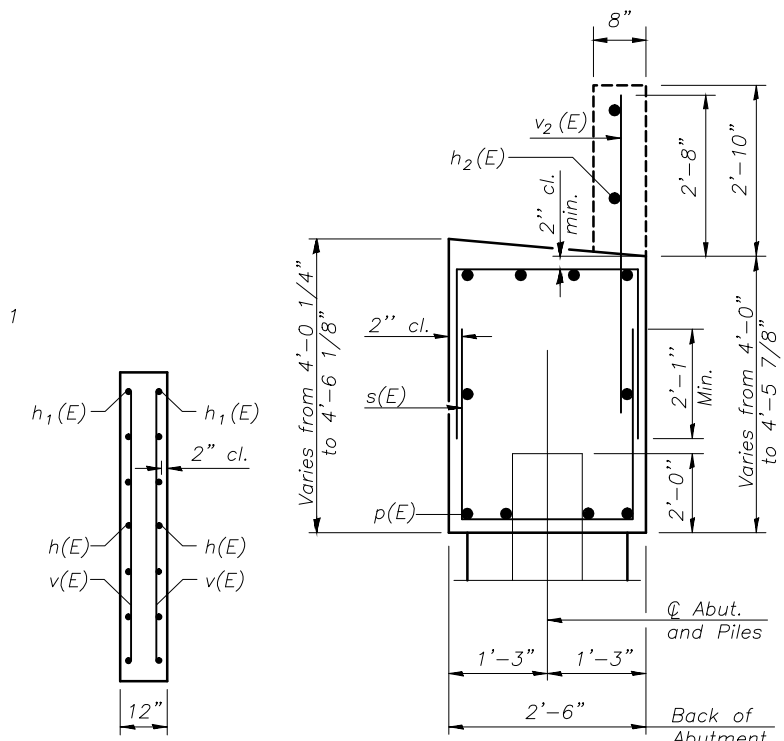
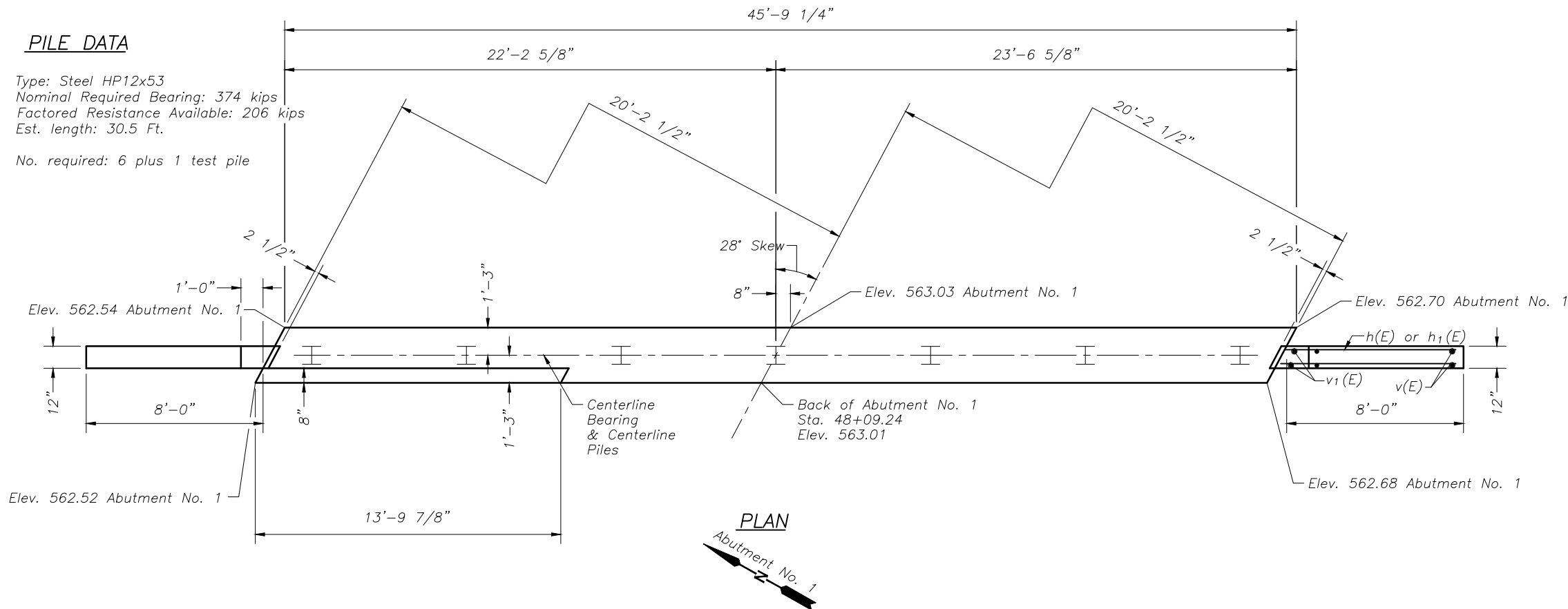
MORRIS AIRPORT ACCESS ROAD CITY OF MORRIS, GRUNDY COUNTY, ILLINOIS

STEEL RAILING, TYPE SM STRUCTURE NO. 032-7013 SHEET NO. 5 OF 10 SHEETS

APPROVED FOR CONSTRUCTION CURRENT AS OF: 3/8/13 SCALE: AS NOTED SHEET 26 OF 38 FILE NO.: 1002.86

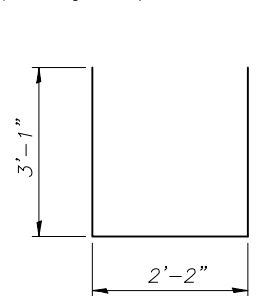
PILE DATA

Type: Steel HP12x53
 Nominal Required Bearing: 374 kips
 Factored Resistance Available: 206 kips
 Est. length: 30.5 Ft.
 No. required: 6 plus 1 test pile

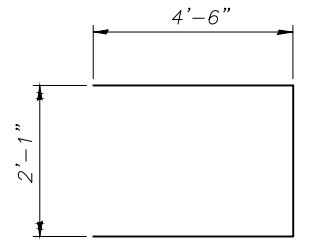


FIELD CUTTING DIAGRAM
 Order v(E) full length. Cut as shown and use remainder of bars in opposite wingwall.

ELEVATION
 (Looking East)



BAR s(E)



BAR u(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	8	#5	7'-9"	—
h1(E)	8	#5	10'-0"	—
h2(E)	2	#5	13'-6"	—
p(E)	10	#7	45'-6"	—
s(E)	96	#4	8'-4"	U
u(E)	8	#6	11'-1"	□
v(E)	12	#4	10'-6"	—
v1(E)	4	#4	6'-7"	—
v2(E)	14	#4	5'-8"	—
Concrete Structures			Cu. Yd.	22.7
Reinforcement Bars, Epoxy Coated			Pound	1930
Furnishing Steel Piles HP12x53			Foot	183
Driving Piles			Foot	183
Test Pile, Steel HP12x53			Each	1
Concrete Encasement			Cu. Yd.	2.4

For details of piles and Concrete Encasement, see sheet 8 of 10.

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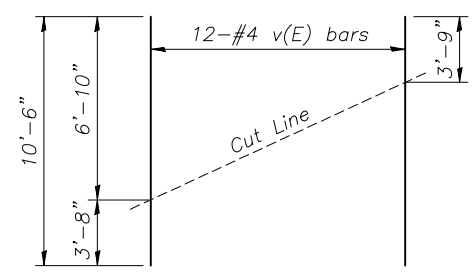
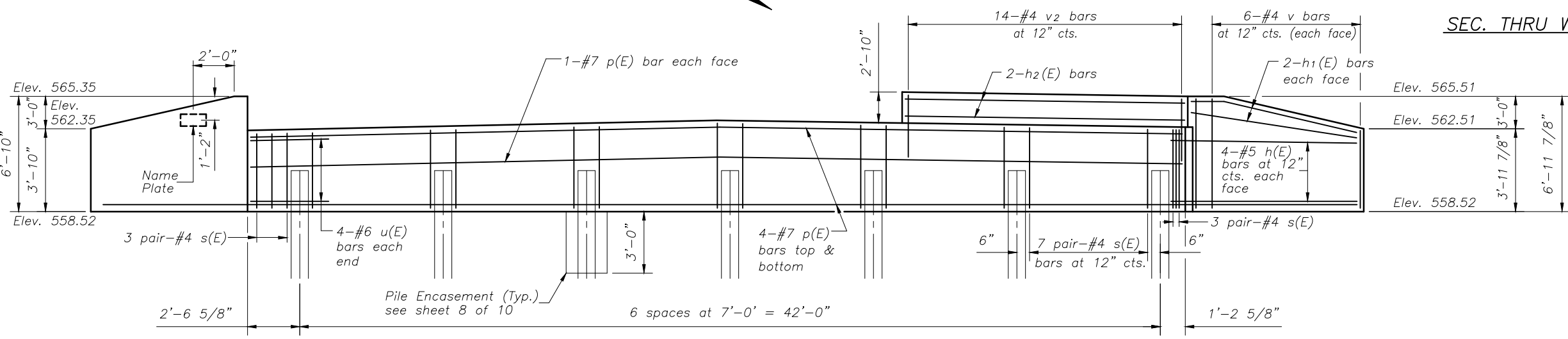
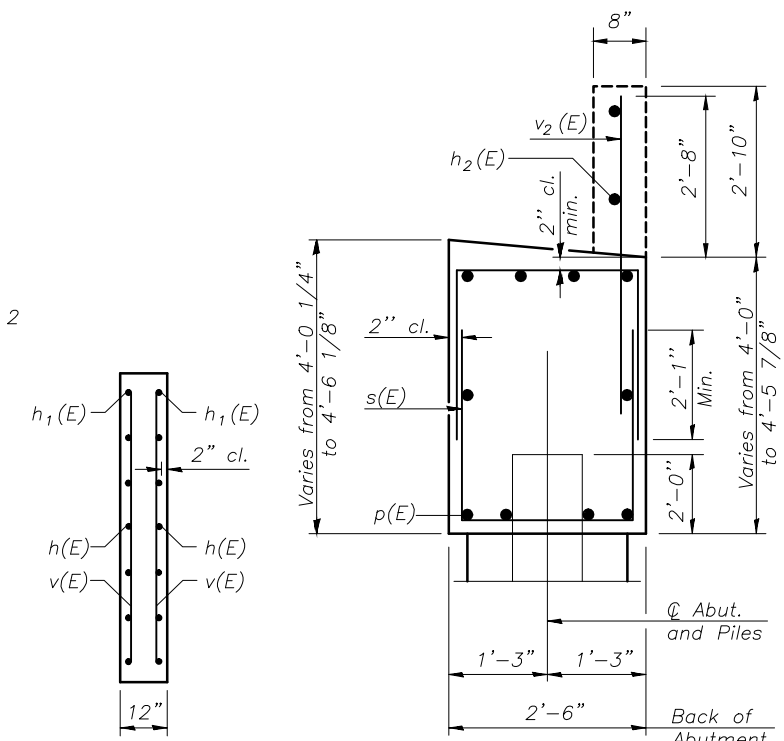
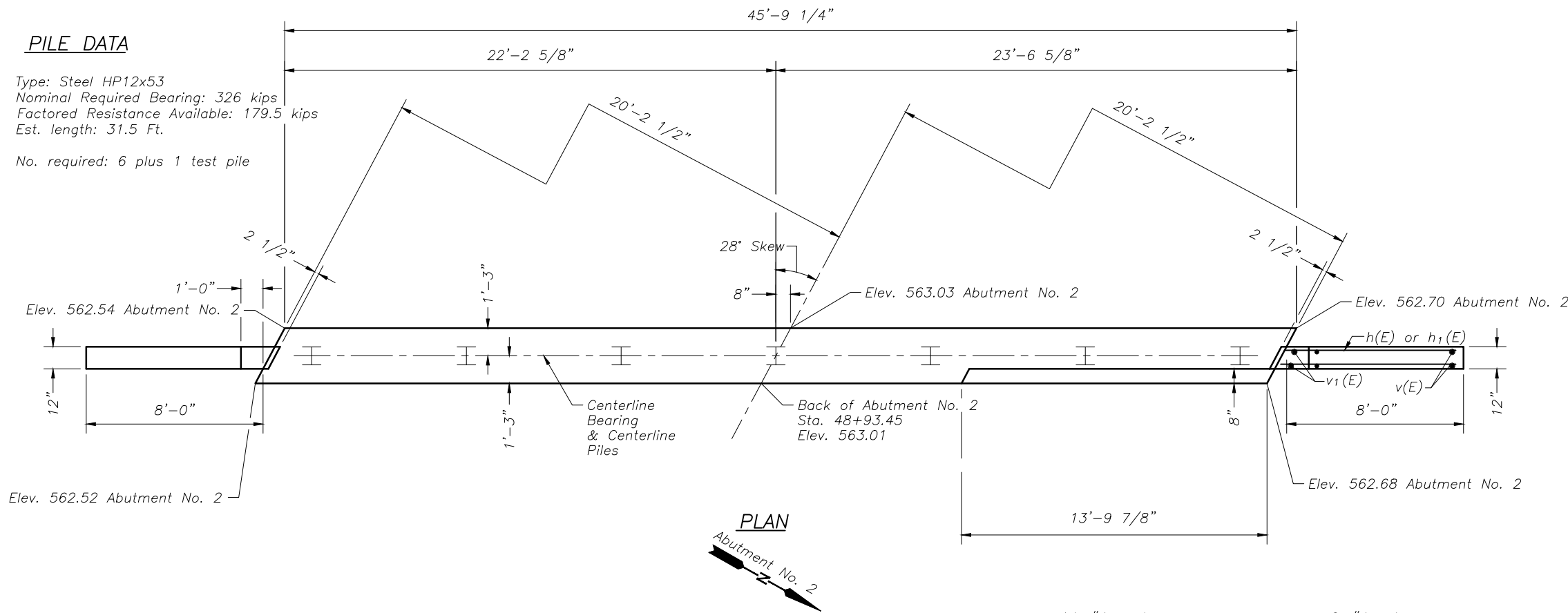
ABUTMENT NO. 1
STRUCTURE NO. 032-7013
 SHEET NO. 6 OF 10 SHEETS

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SCALE: AS NOTED	OF 38
FILE NO.: 1002.86	

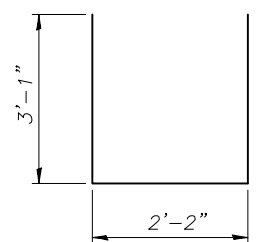
PILE DATA

Type: Steel HP12x53
 Nominal Required Bearing: 326 kips
 Factored Resistance Available: 179.5 kips
 Est. length: 31.5 Ft.
 No. required: 6 plus 1 test pile

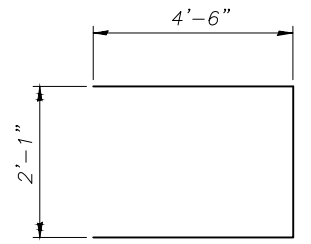


FIELD CUTTING DIAGRAM
 Order v(E) full length. Cut as shown and use remainder of bars in opposite wingwall.

ELEVATION
 (Looking West)



BAR s(E)



BAR u(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	8	#5	7'-9"	—
h1(E)	8	#5	10'-0"	—
h2(E)	2	#5	13'-6"	—
p(E)	10	#7	45'-6"	—
s(E)	96	#4	8'-4"	U
u(E)	8	#6	11'-1"	U
v(E)	12	#4	10'-6"	—
v1(E)	4	#4	6'-7"	—
v2(E)	14	#4	5'-8"	—
Concrete Structures			Cu. Yd.	22.7
Reinforcement Bars, Epoxy Coated			Pound	1930
Furnishing Steel Piles HP12x53			Foot	189
Driving Piles			Foot	189
Test Pile, Steel HP12x53			Each	1
Concrete Encasement			Cu. Yd.	2.4

For details of piles and Concrete Encasement, see sheet 8 of 10.

CHAMLIN & ASSOCIATES, INC. © 2012
 Drawing Name: H:\A08\11\1002-B6\PERU BRIDGE PLANS\02-6-7-ABUTS.dwg Last Modified: Mar 08, 2013 - 2:18pm Plotted on: Mar 08, 2013 - 3:34pm by marib

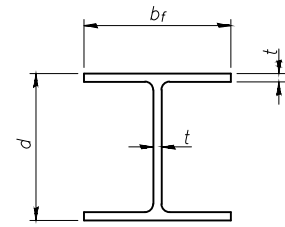
DRAWN BY: LAG	REVISIONS			
CHECKED BY: JKC	LEVEL	BY	DATE	DESCRIPTION
DATE: 12/12	1	MAB	3/8/13	REVISED PER IDA COMMENTS

CHAMLIN & ASSOCIATES
 PERU MORRIS ILLINOIS

MORRIS AIRPORT ACCESS ROAD
 CITY OF MORRIS, GRUNDY COUNTY, ILLINOIS

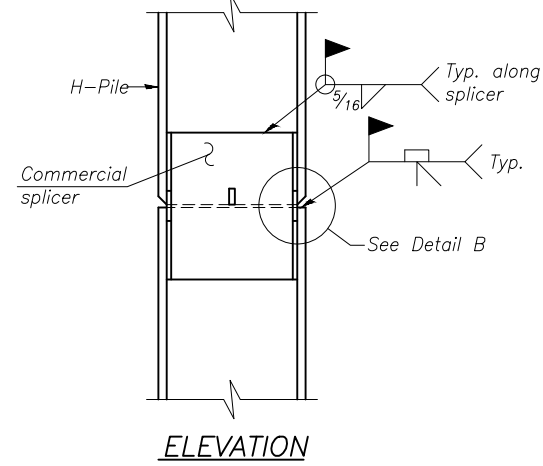
ABUTMENT NO. 2
STRUCTURE NO. 032-7013
 SHEET NO. 7 OF 10 SHEETS

APPROVED FOR CONSTRUCTION
 CURRENT AS OF: 3/8/13
 SCALE: AS NOTED SHEET 28
 FILE NO.: 1002.86 OF 38

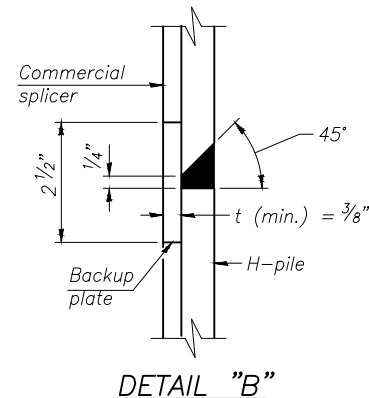


STEEL PILE TABLE

Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1 1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1 1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11 3/4"	12"	7/16"	24"
HP 10x57	10"	10 1/4"	9/16"	24"
x42	9 3/4"	10 1/8"	7/16"	24"
HP 8x36	8"	8 1/8"	7/16"	18"

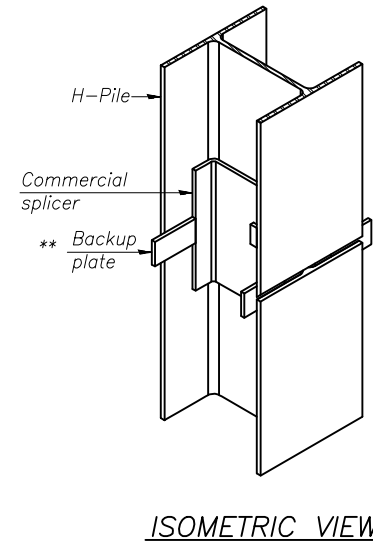


ELEVATION

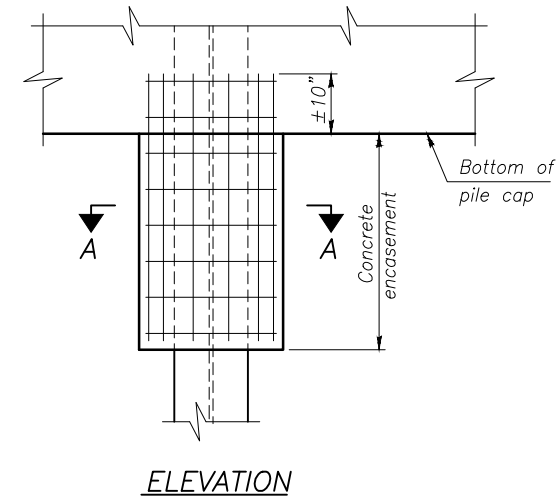


DETAIL "B"

WELDED COMMERCIAL SPLICE

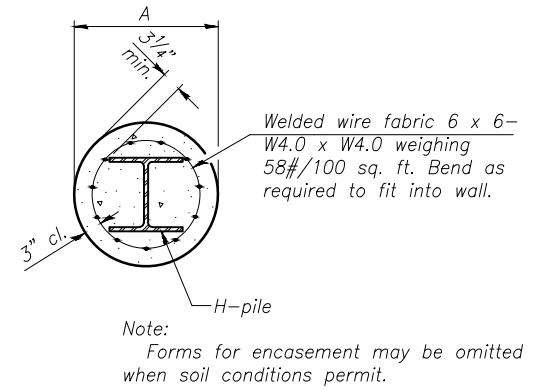


ISOMETRIC VIEW



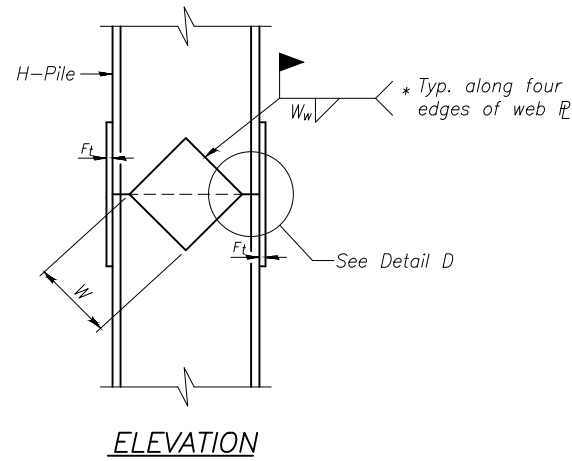
ELEVATION

PILE ENCASEMENT

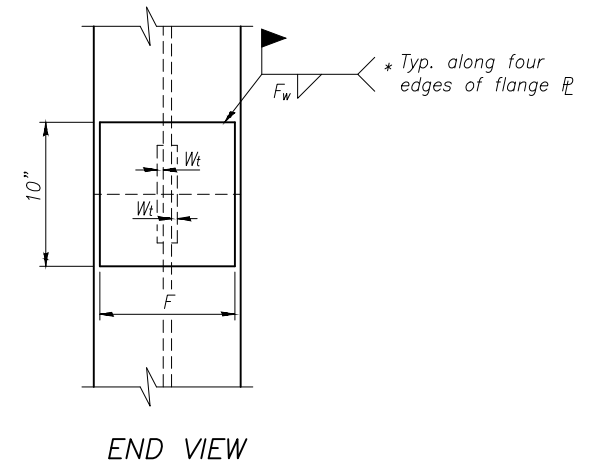


SECTION A-A

Note:
Forms for encasement may be omitted when soil conditions permit.

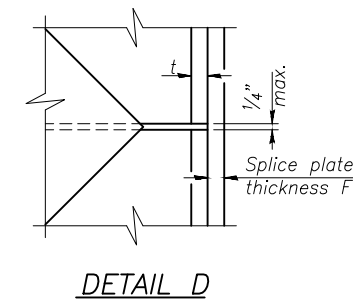


ELEVATION



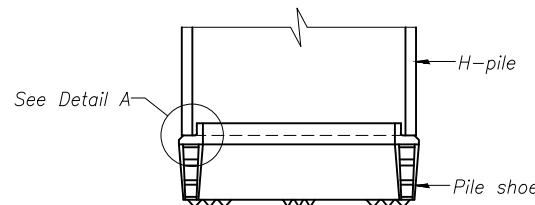
END VIEW

Designation	F	F _t	F _w	W	W _t	W _w
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	1 1/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	1 1/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	1 1/16"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"

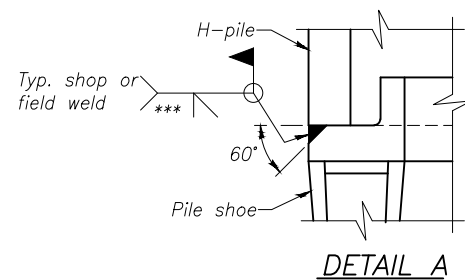


DETAIL D

WELDED PLATE FIELD SPLICE

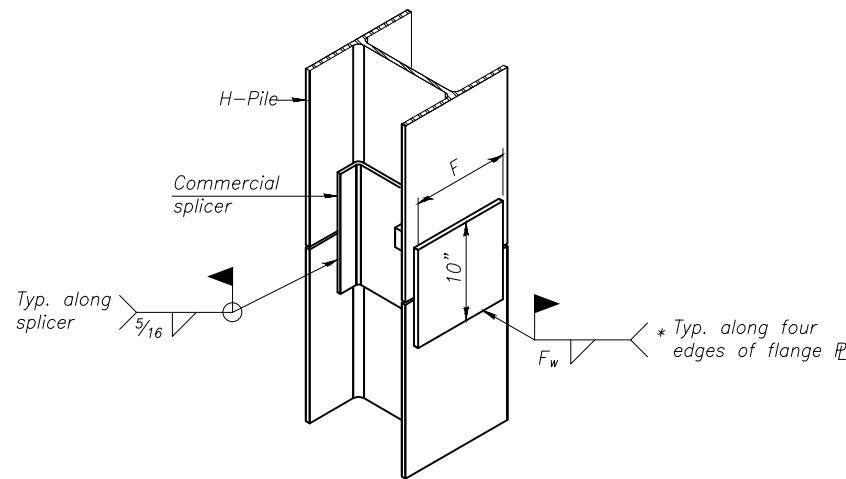


ELEVATION



DETAIL A

H-PILE SHOE ATTACHMENT



ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

* Interrupt welds 1/4" from end of web and/or each flange.

** Remove portions of backup plates that extend outside the flanges.

*** Weld size per pile shoe manufacturer (5/16" min.).

Note:
The steel H-piles shall be according to AASHTO M270 Grade 50.

F-HP

1-27-12

LEVEL	BY	DATE	DESCRIPTION
1	MAB	3/8/13	REVISED PER IDA COMMENTS

CHAMLIN & ASSOCIATES PERU MORRIS ILLINOIS

MORRIS AIRPORT ACCESS ROAD CITY OF MORRIS, GRUNDY COUNTY, ILLINOIS

PILE DETAILS STRUCTURE NO. 032-7013 SHEET NO. 8 OF 10 SHEETS

APPROVED FOR CONSTRUCTION CURRENT AS OF: 3/8/13 SCALE: AS NOTED SHEET 29 OF 38 FILE NO.: 1002.86

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Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354
Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net

BORING LOG

Sheet 1 of 2

Client: Chamlin & Associates
Project Name: Morris Airport Expansion
Project Site: Morris, Illinois

Boring No. B-8
Surface Elev. 558.49
Auger Depth 35' Rotary Depth NA
Start Date 02/25/12 Finish Date 02/25/12

Location: Per Sketch

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES					DRILLED BY Jeff Safranski CME-55
				Sample No.	Sample Type	Qu. (USF)	N Value (Blows)	Blows/Shear	
558.49									REMARKS
557.49	Medium To Loose Brown And Gray Silt And Silty Loam		1						
556.49			2						
555.49			3	1	SS	---	10	---	18
554.49	Very Stiff Gray Clay Loam Till		4						
553.49			5						
552.49			6	2	SS	---	7	---	21
551.49	Dense Gray Clay Loam Till		7						
550.49			8						
549.49			9	3	SS	3.2	24	S	11
548.49	Very Dense Gray Clay With Limestone Fragments		10						
547.49			11						
546.49			12	4	SS	4.7	40	S	10
545.49	Dense Gray Clay Loam Till		13						
544.49			14						
543.49			15	5	SS	4.4	46	S	10
542.49	Very Dense Gray Clay Loam Till With Limestone Fragments		16						
541.49			17						
540.49			18	6	SS	---	77	---	10
539.49	Dense Gray Clay Loam Till		19						
538.49			20						
			21	7	SS	---	33	---	11
			22						
			23						
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Groundwater Data: Static water level at time of subsurface investigation = elevation 550.5
Comments:

Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354
Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net

BORING LOG

Sheet 2 of 2

Client: Chamlin & Associates
Project Name: Morris Airport Expansion
Project Site: Morris, Illinois

Boring No. B-8
Surface Elev. 558.49
Auger Depth 35' Rotary Depth NA
Start Date 02/25/12 Finish Date 02/25/12

Location: Per Sketch

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES					DRILLED BY Jeff Safranski CME-55	
				Sample No.	Sample Type	Qu. (USF)	N Value (Blows)	Blows/Shear		Moisture (%)
558.49									REMARKS	
536.49	Dense Gray Clay Loam Till		22							
535.49			23	9	SS	4.8	30	S	12	
534.49			24							
533.49	Very Stiff Gray Clay Loam Till		25							
532.49			26							
531.49			27	10	SS	---	32	---	13	
530.49	Dense Gray Clay Loam Till		28							
529.49			29							
528.49			30	11	SS	5.0	37	S	11	
527.49	Very Dense Gray Clay With Limestone Fragments		31							
526.49			32							
525.49			33	12	SS	---	100 8"	---	---	
524.49	Auger Refusal Limestone		34							
523.49			35							
522.49			36	13	SS	---	100 1"	---	---	
521.49			37							
520.49			38							
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518.49			40							
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			95							

Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354

BORING LOG
Sheet 1 of 2

Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net

Client: Chamlin & Associates
Project Name: Morris Airport Expansion
Project Site: Morris, Illinois

Boring No. B-9
Surface Elev. 560.21
Auger Depth 33.5' Rotary Depth NA
Start Date 02/25/12 Finish Date 02/25/12

Location: Per Sketch

DEPTH (ELEV.)	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES					DRILLED BY	REMARKS
				Sample No.	Sample Type	Qu. (USF)	N Value (Blows)	Blow/Shear Measure (%)		
560.21									Jeff Safranski CME-55	
559.21	Stiff Black To Brownish Gray Silty Clay		1							
558.21			2							
557.21			3	1	SS	1.7	9	B	22	
556.21	Medium Brown Silt		4							
555.21			5	2	SS	---	21	---	19	
554.21	Very Stiff Gray Clay Loam Till		6							
553.21			7							
552.21			8	3	SS	3.1	20	S	15	
551.21	Dense Gray Clay Loam Till		9							
550.21			10	4	SS	4.7	37	S	12	
549.21			11							
548.21			12							
547.21	Dense Gray Clay Loam Till		13	5	SS	4.3	41	S	11	
546.21			14							
545.21			15	6	SS	5.2	48	S	10	
544.21			16							
543.21			17							
542.21			18	7	SS	4.6	35	S	12	
541.21		19								
540.21		20	8	SS	---	46	---	10		

Groundwater Data: No groundwater encountered at time of subsurface investigation.
Comments:

Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354

BORING LOG
Sheet 2 of 2

Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net

Client: Chamlin & Associates
Project Name: Morris Airport Expansion
Project Site: Morris, Illinois

Boring No. B-9
Surface Elev. 560.21
Auger Depth 33.5' Rotary Depth NA
Start Date 02/25/12 Finish Date 02/25/12

Location: Per Sketch

DEPTH (ELEV.)	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES					DRILLED BY	REMARKS
				Sample No.	Sample Type	Qu. (USF)	N Value (Blows)	Blow/Shear Measure (%)		
560.21									Jeff Safranski CME-55	
558.21	Dense Gray Clay Loam Till		22							
557.21			23	9	SS	4.5	36	S	11	
556.21			24							
555.21	Dense Gray Clay Loam Till		25							
554.21			26	10	SS	---	35	---	12	
553.21	Dense Gray Clay Loam Till		27							
552.21			28	11	SS	5.2	33	S	11	
551.21			29							
550.21	Dense Gray Clay Loam Till		30							
549.21			31	12	SS	4.5	42	S	11	
548.21			32							
547.21			33	13	SS	---	100 5'	---	---	
546.21	Very Dense Gray Clay With Limestone Fragments		34							
545.21	Auger Refusal		35							
544.21			36							
543.21			37							
542.21			38							
541.21			39							
540.21			40							
539.21			41							

Groundwater Data: No groundwater encountered at time of subsurface investigation.
Comments:

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DRAWING NAME: H:\AUG11\1002-B6\PERU BRIDGE PLANS\009-10-SOIL-BORS.dwg Last Modified: Mar 08, 2013 - 2:27pm Plotted on: Mar 08, 2013 - 3:37pm by markb

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DATE: 12/12	1	MAB	3/8/13	REVISED PER IDA COMMENTS

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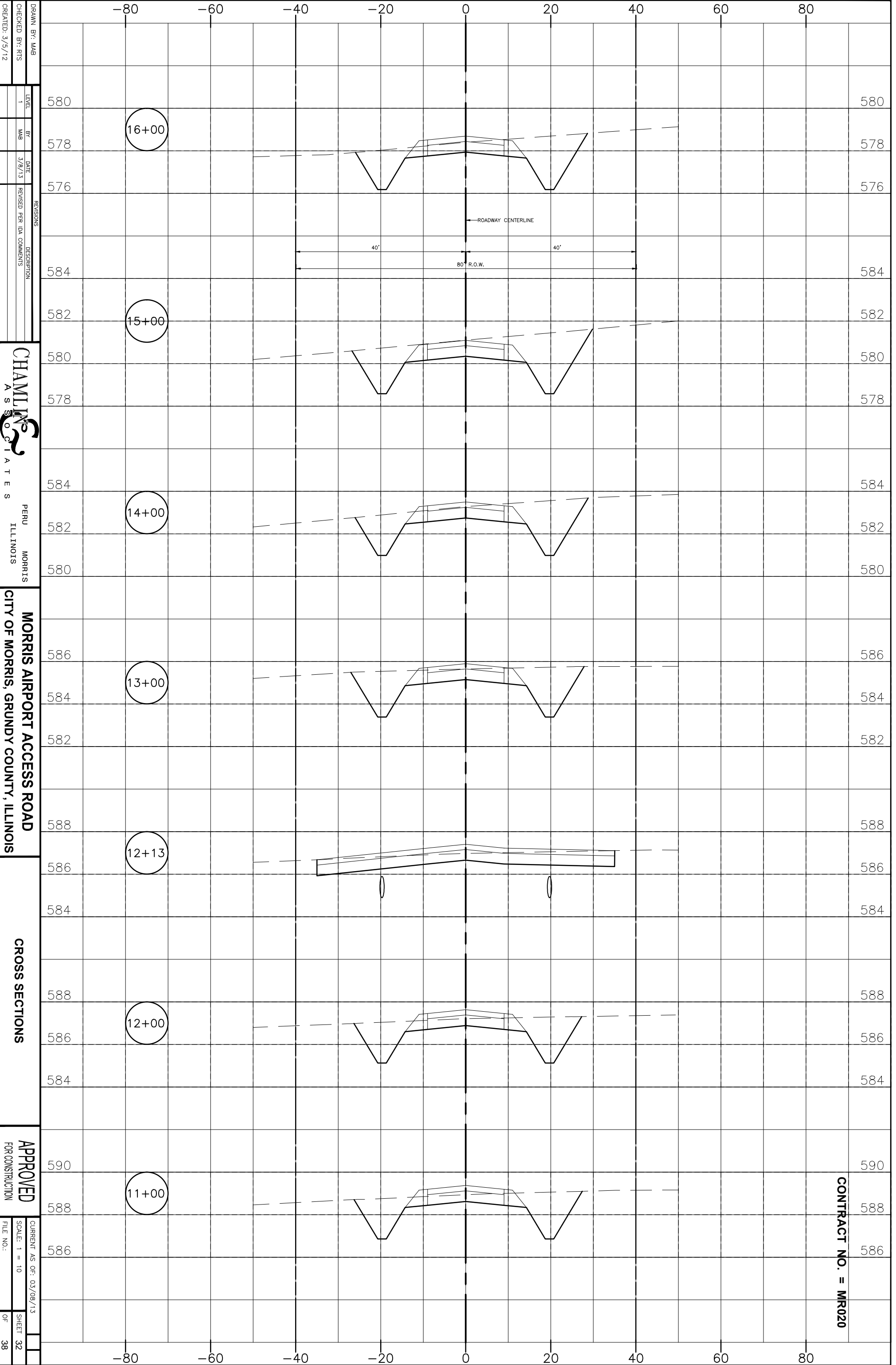
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SOIL BORINGS
STRUCTURE NO. 032-7013
SHEET NO. 10 OF 10 SHEETS

APPROVED FOR CONSTRUCTION

CURRENT AS OF: 3/8/13
SCALE: NONE
FILE NO.: 1002.86

SHEET 31 OF 38



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CREATED: 3/5/12

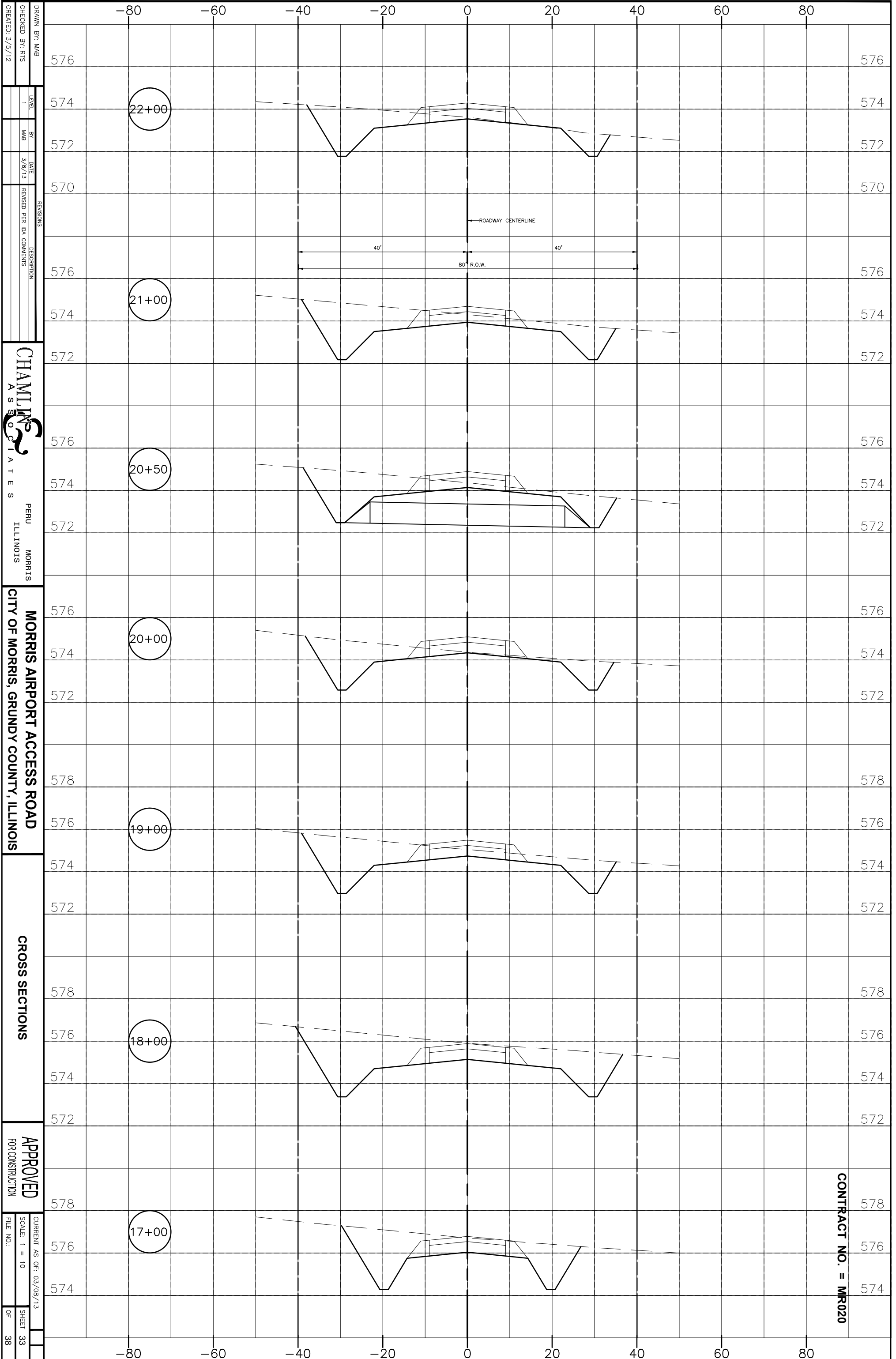
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BY: MAB
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DESCRIPTION

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CROSS SECTIONS

APPROVED FOR CONSTRUCTION
CURRENT AS OF: 03/08/13
SCALE: 1 = 10
FILE NO.:
SHEET 32 OF 38

CONTRACT NO. = MR020



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CREATED: 3/5/12
LEVEL: 1
BY: MAB
DATE: 3/8/13
REVISIONS
DESCRIPTION

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CROSS SECTIONS

APPROVED FOR CONSTRUCTION
 CURRENT AS OF: 03/08/13
 SCALE: 1" = 10'
 SHEET 33 OF 38

CONTRACT NO. = MR020

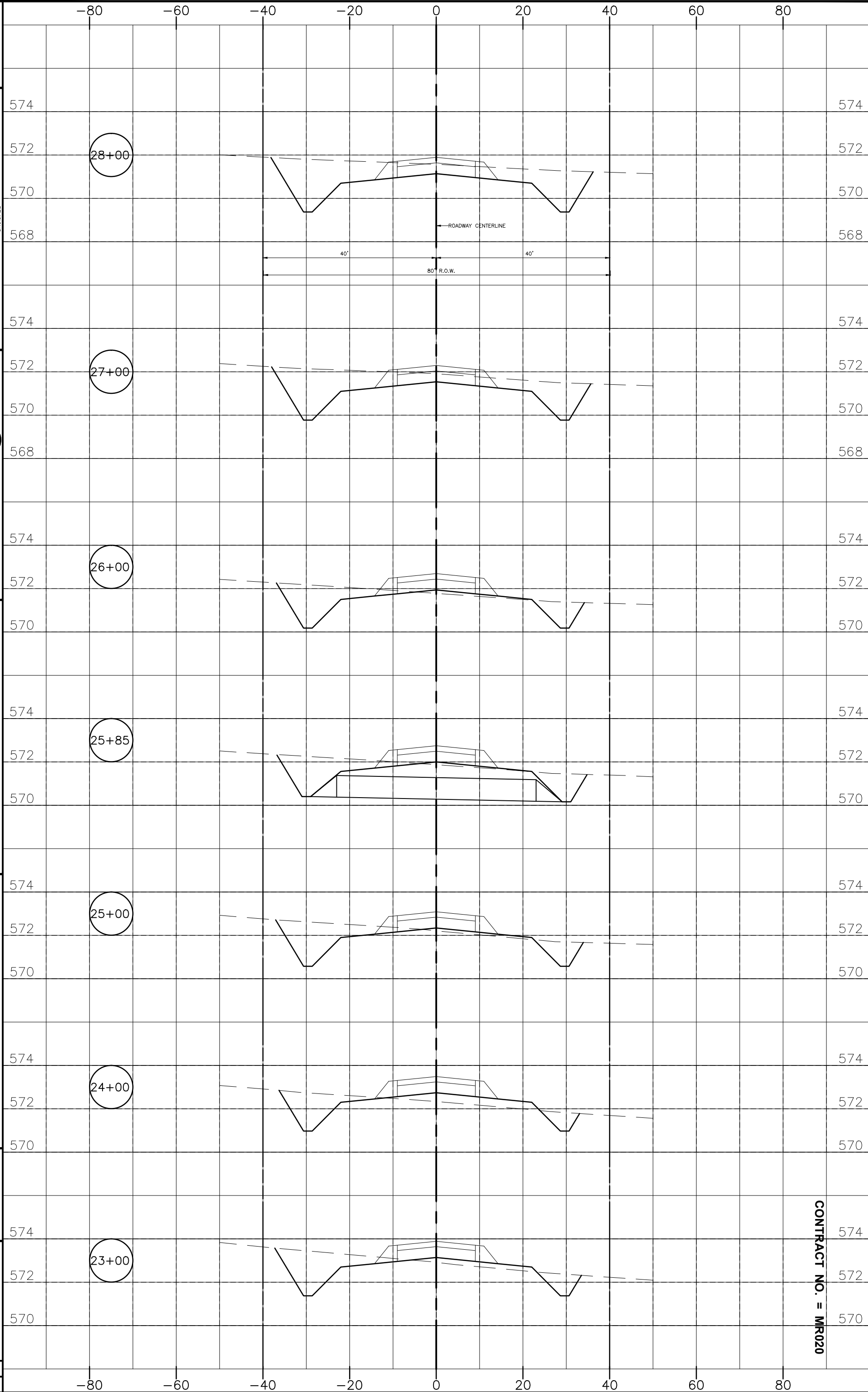
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REVISIONS	
DESCRIPTION	PERU MORRIS ILLINOIS

CHAMLIN & ASSOCIATES
 PERU MORRIS ILLINOIS

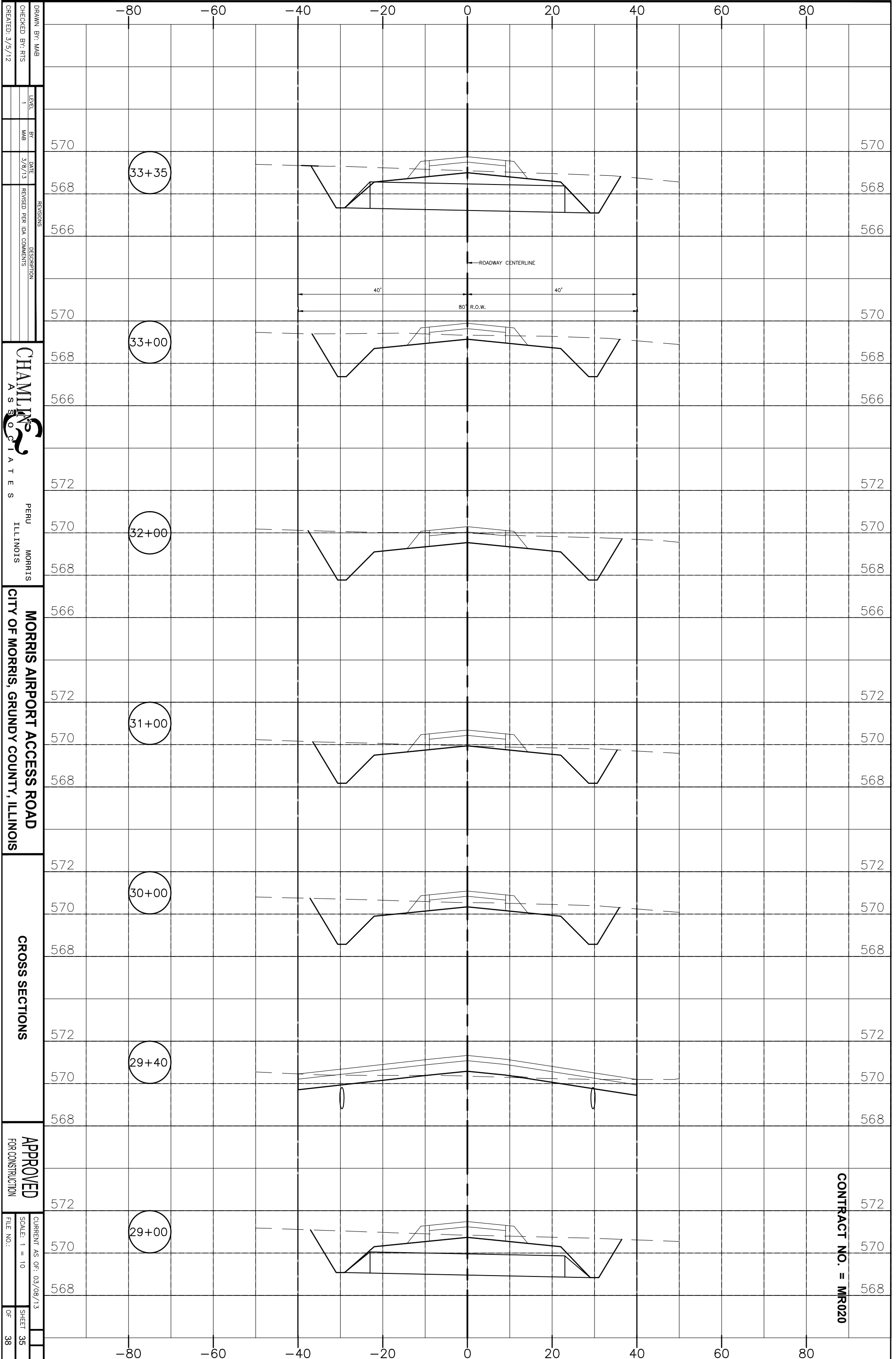
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 CITY OF MORRIS, GRUNDY COUNTY, ILLINOIS

CROSS SECTIONS

APPROVED FOR CONSTRUCTION
 CURRENT AS OF: 03/08/13
 SCALE: 1 = 10
 SHEET 34 OF 38



CONTRACT NO. = MR020



DRAWN BY: MAB
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DATE: 3/5/12
LEVEL: 1
BY: MAB
DATE: 3/8/13
REVISIONS
DESCRIPTION

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CROSS SECTIONS

APPROVED FOR CONSTRUCTION
CURRENT AS OF: 03/08/13
SCALE: 1" = 10'
SHEET 35 OF 38

CONTRACT NO. = MR020

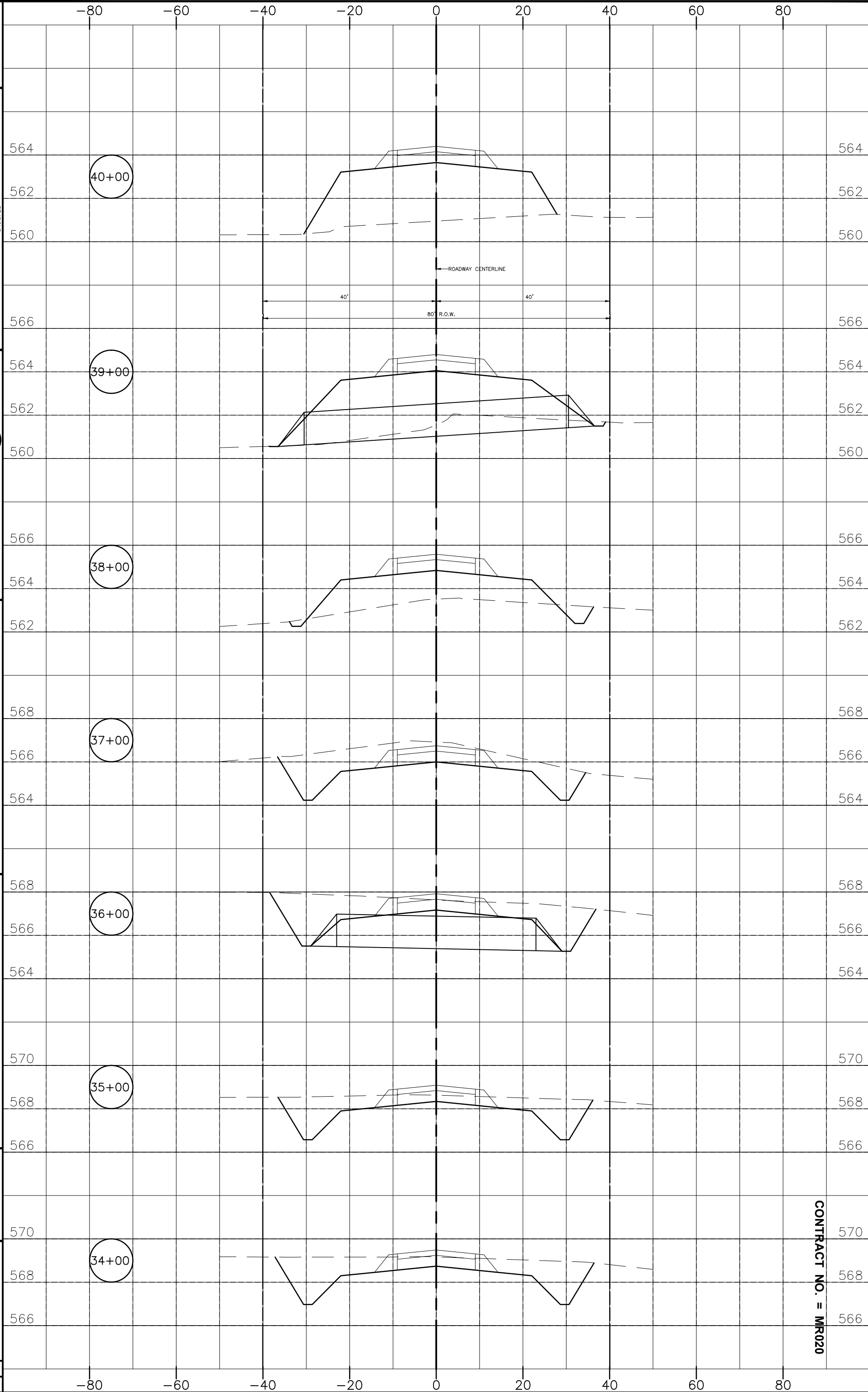
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DATE: 3/5/12
LEVEL: 1
BY: MAB
DATE: 3/8/13
REVISIONS
DESCRIPTION

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CROSS SECTIONS

APPROVED FOR CONSTRUCTION
 CURRENT AS OF: 03/08/13
 SCALE: 1 = 10
 SHEET 36 OF 38



CONTRACT NO. = MR020

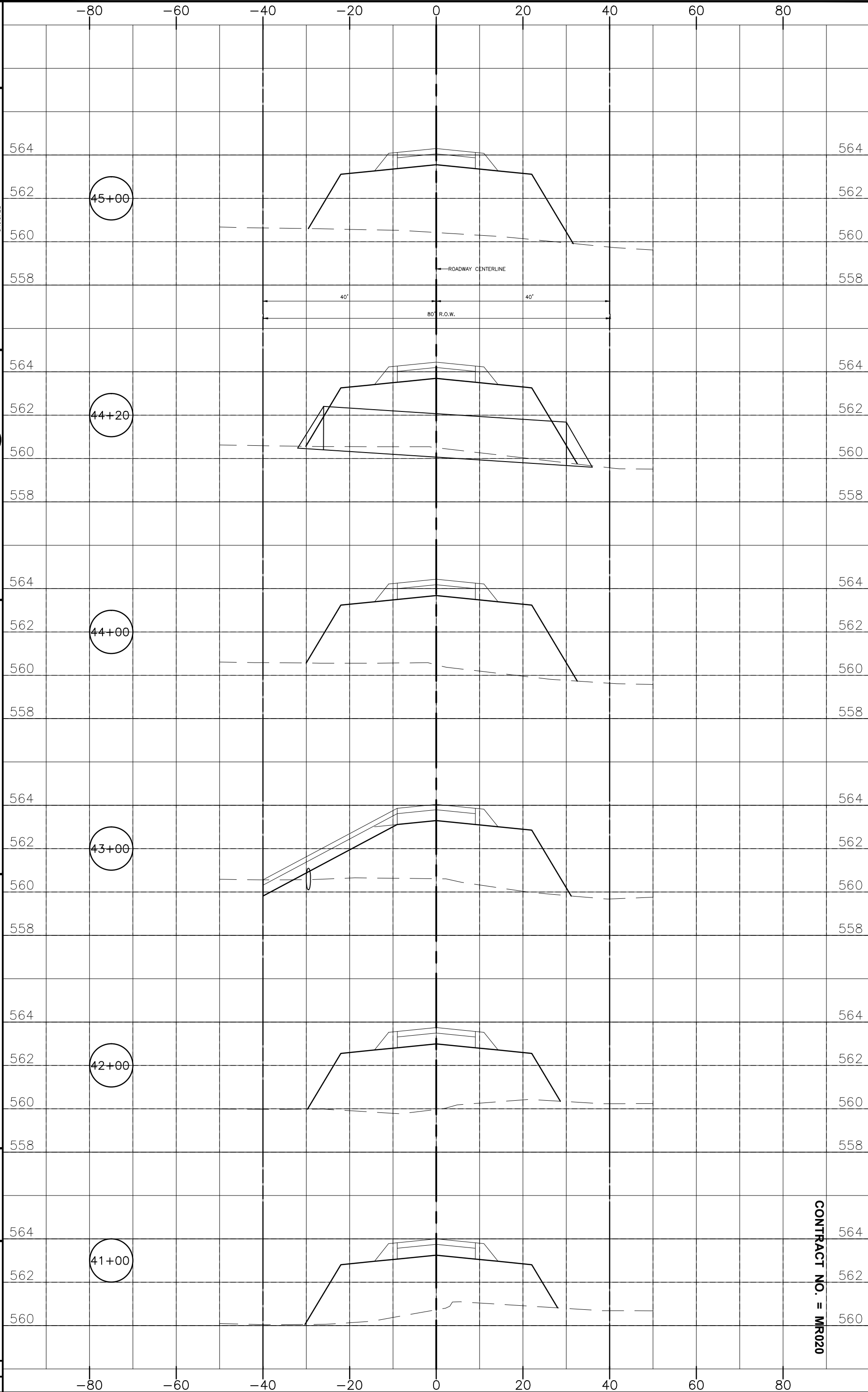
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CHECKED BY: FRS
CREATED: 3/5/12
LEVEL: 1
BY: MAB
DATE: 3/8/13
REVISIONS
DESCRIPTION

CHAMLIN & ASSOCIATES
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MORRIS AIRPORT ACCESS ROAD
 CITY OF MORRIS, GRUNDY COUNTY, ILLINOIS

CROSS SECTIONS

APPROVED FOR CONSTRUCTION
 CURRENT AS OF: 03/08/13
 SCALE: 1" = 10'
 SHEET 37 OF 38



CONTRACT NO. = MR020

DRAWN BY: MAB
CHECKED BY: FRS
CREATED: 3/5/12
LEVEL: 1
BY: MAB
DATE: 3/8/13
REVISIONS
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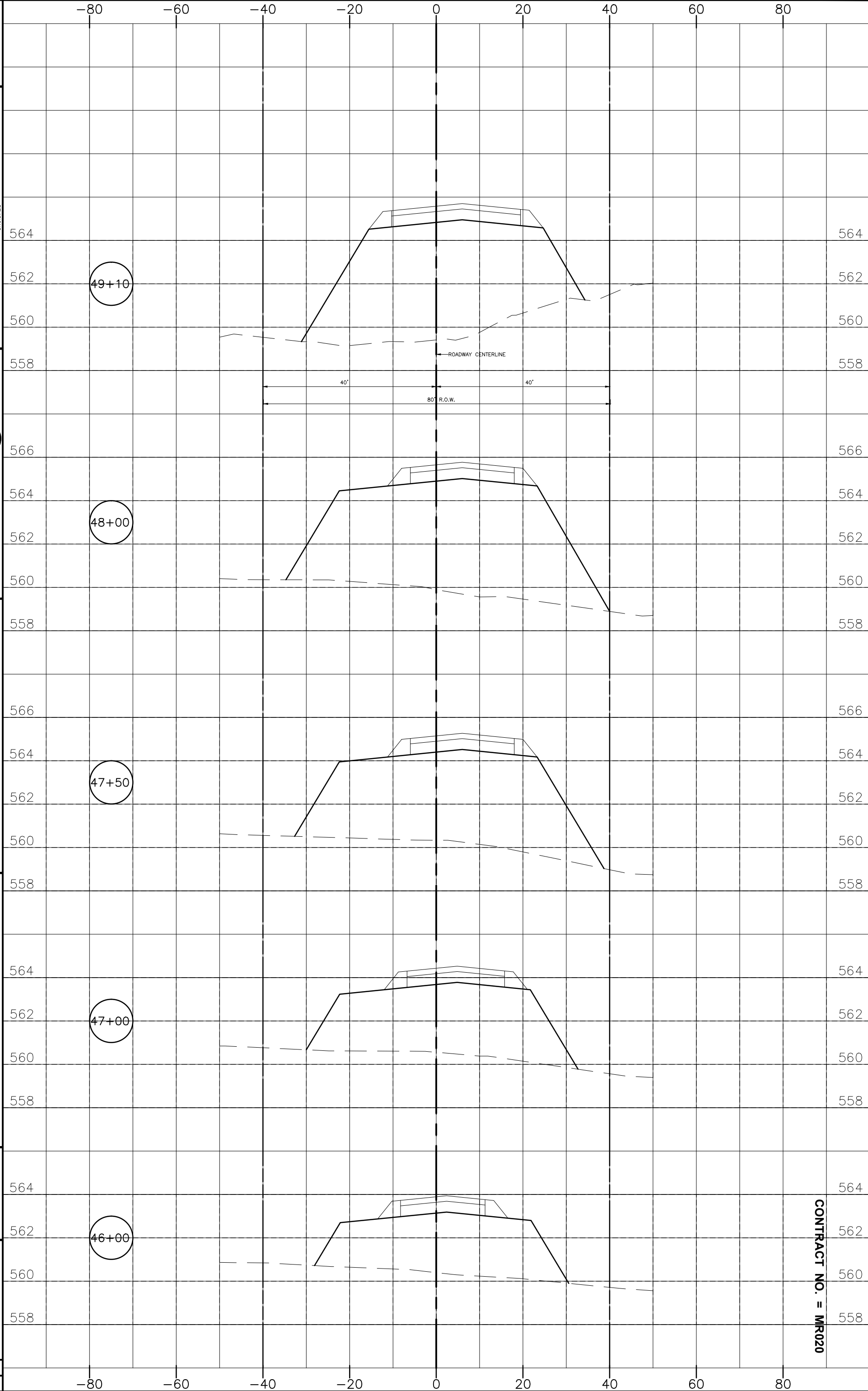
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 PERU MORRIS
 ILLINOIS

MORRIS AIRPORT ACCESS ROAD
 CITY OF MORRIS, GRUNDY COUNTY, ILLINOIS

CROSS SECTIONS

APPROVED FOR CONSTRUCTION

CURRENT AS OF: 03/08/13
SCALE: 1 = 10
SHEET 38
OF 38



CONTRACT NO. = MR020