

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	2015-089B	MCHENRY	34	1
		ILLINOIS	CONTRACT NO. 62B94	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

FOR LIST OF HIGHWAY STANDARDS, SEE SHEET NO. 2

PROJECT IS LOCATED IN DUNHAM AND HARTLAND TOWNSHIP

TRAFFIC DATA:

U.S. ROUTE 14
S.N. 056-0194 2016 ADT = 6,300
S.N. 056-0193 2016 ADT = 6,300
S.N. 056-0269 2016 ADT = 7,750

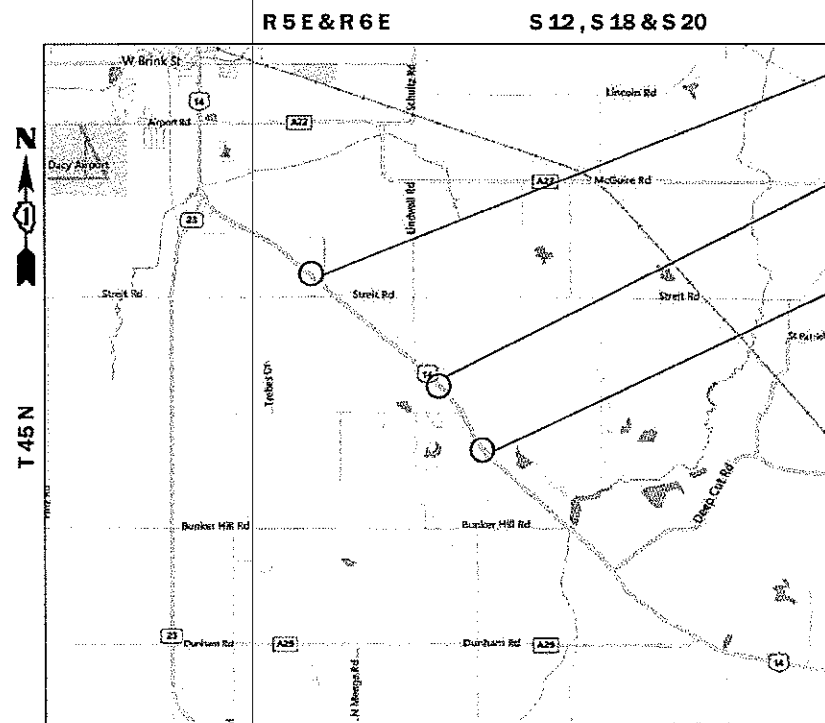
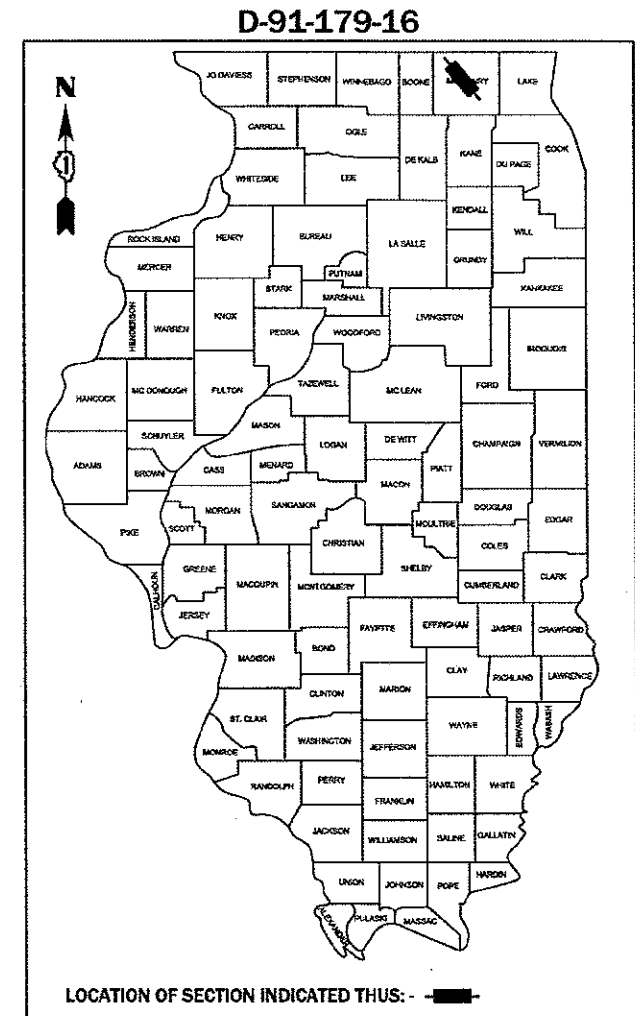
DESIGN DESIGNATION = OTHER PRINCIPAL ARTERIAL

DESIGN SPEED = 55 MPH
POSTED SPEED = 55 MPH

PROPOSED HIGHWAY PLANS

FAP ROUTE 305 (U.S. ROUTE 14)
OVER UNNAMED DITCHES
SECTION 2015-089B
PROJECT: NHPP-LGYL (394)
CULVERT REHABILITATION
MCHENRY COUNTY

C-91-179-16



PROJECT LOCATION 1
S.N. 056-0194
0.9 MILES SOUTH OF IL 23

PROJECT LOCATION 2
S.N. 056-0193
2.4 MILES SOUTH OF IL 23

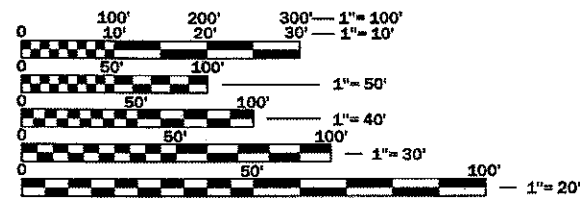
PROJECT LOCATION 3
S.N. 056-0269
3.1 MILES SOUTH OF IL 23

DUNHAM AND HARTLAND TOWNSHIP

LOCATION MAP

NOT TO SCALE

GROSS AND NET LENGTH = 1320 FT = 0.25 MILES



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: RAGHAD ADEIS - DAHHAN (847) 705 - 4237
PROJECT MANAGER: FAWAD AQUEEL (847) 705 - 4247

CONTRACT NO. 62B94



Fred M. Lin, P.E.
ILLINOIS REGISTERED ENGINEER NO. 062-056704
REGISTRATION EXPIRES NOV. 30, 2019

PREPARED BY:
LIN ENGINEERING, LTD.
WESTMONT, IL 60559
(630) 323-5168

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
SUBMITTED January 30, 2018
Anthony J. Conroy REGIONAL ENGINEER
Mar 23, 2018
Andrew ENGINEER OF DESIGN AND ENVIRONMENT
Mar 23, 2018
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

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- 19-24 PROPOSED CULVERT LINER DETAILS
- 25-32 CROSS SECTIONS
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HIGHWAY STANDARDS

- 000001-06 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 280001-07 TEMPORARY EROSION CONTROL SYSTEMS
- 542201-02 REINFORCED CONCRETE END SECTIONS FOR PIPE CULVERTS, 15" (375 MM) THRU 36" (900 MM) DIAMETER SKEWED WITH ROADWAY
- 542301-03 PRECAST REINFORCED CONCRETE FLARED END SECTION
- 701006-05 OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5 M) TO 24" (600 MM) FROM PAVEMENT EDGE
- 701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- 701311-03 LANE CLOSURE, 2L, 2W, MOVING OPERATIONS-DAY ONLY
- 701336-06 LANE CLOSURE, 2L, 2W, WORK AREAS IN SERIES, FOR SPEEDS 45±MPH
- 701901-07 TRAFFIC CONTROL DEVICES

DISTRICT STANDARDS

- BD-51 BENCHING DETAIL FOR EMBANKMENT WIDENING
- TC-22 ARTERIAL ROAD INFORMATION SIGN

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

NITROGEN FERTILIZER NUTRIENTS	90 LB/ACRE
PHOSPHORUS FERTILIZER NUTRIENTS	90 LB/ACRE
POTASSIUM FERTILIZER NUTRIENTS	90 LB/ACRE

GENERAL NOTES

1. ANY EXISTING CONCRETE COLLARS ENCOUNTERED WILL BE REMOVED AND DISPOSED OF, COST OF THIS WORK SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR CONCRETE HEADWALL REMOVAL OR PIPE CULVERT REMOVAL.
2. ALL ELEVATIONS IN THE PLANS ARE BASED UPON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
3. PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO VARIATIONS FOUND IN THE FIELD. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING MATERIALS. ANY ADJUSTMENTS PROPOSED BY THE CONTRACTOR MUST BE APPROVED BY THE ENGINEER. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED BASED UPON THE UNIT PRICE.
4. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL J.U.L.I.E. AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS UTILITIES. 48 HOUR NOTIFICATION IS REQUIRED.
5. THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING THE TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OR HER OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE HERETO. THIS WORK SHALL BE PER ARTICLES 105.07 AND 107.31 OF THE STANDARD SPECIFICATIONS.
6. ABANDONED UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE OF THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER.
7. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES WHICH HAVE UTILITIES PRESENT IN THE PROJECT AREA BEFORE ANY WORK IS STARTED. ALL UTILITY COMPANIES, CITY OF HARVARD, AND MCHENRY COUNTY SHOULD BE NOTIFIED BY THE CONTRACTOR AT LEAST 3 DAYS PRIOR TO THE START OF CONSTRUCTION. ALL UTILITIES MUST BE STAKED PRIOR TO CONSTRUCTION.
8. MEMBERS OF J.U.L.I.E. KNOWN TO BE WITHIN THE LIMITS OF THE IMPROVEMENT ARE: COMED, AT&T, AND NICOR.
9. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE, COUNTY, OR MUNICIPAL PROPERTY WITHOUT WRITTEN PERMISSION FROM THE JURISDICTIONAL AGENCY OR MUNICIPALITY.
10. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
11. THE CONTRACTOR SHALL USE CARE IN REMOVING, GRADING OR EXCAVATION NEAR ALL EXISTING ITEMS WHICH WILL REMAIN. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
12. THE EXISTING GROUND COVER SHALL REMAIN IN ANY AREA WHERE THERE IS NO PROPOSED GRADING.
13. THE CONTRACTOR SHALL LIMIT ALL CONSTRUCTION ACTIVITIES TO REMAIN IN THE EXISTING RIGHT OF WAY.
14. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS, AS REQUIRED, PRIOR TO COMMENCING WITH CONSTRUCTION.
15. THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN ACCESS TO ALL EXISTING PROPERTIES PER ARTICLE 107.09 AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
16. ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OUTSIDE THE REMOVAL LIMITS SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

18. WHERE SECTION, SUBSECTION, SUBDIVISION, OR PROPERTY MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR, OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THE MONUMENT'S LOCATION.
19. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO ASSURE THAT NO DEBRIS FALLS INTO THE WATERWAYS. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF THE VARIOUS PAY ITEMS.
20. THE RESIDENT ENGINEER SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS PRIOR TO THE PLACEMENT OF ANY TEMPORARY TRAFFIC CONTROL DEVICES.
21. THE RESIDENT ENGINEER SHALL CONTACT THE AREA TRAFFIC FIELD ENGINEER WALTER CZARNY AT (847) 438-2300 A MINIMUM OF TWO WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
22. THE CONTRACTOR SHALL MAKE A REASONABLE EFFORT TO MINIMIZE THE SIZE OF DISTURBED AREAS.
23. SILT FENCE SHALL BE IN GOOD WORKING ORDER PRIOR TO THE START OF CONSTRUCTION ACTIVITIES. THEY SHALL REMAIN IN PLACE UNTIL DISTURBED AREAS ARE ADEQUATELY STABILIZED.
24. SILT FENCE SHALL BE INSTALLED PER IDOT STANDARD 280001. THE CONTRACTOR SHALL INSPECT AND CLEAR THE SILT FENCE WEEKLY, OR AFTER A RAINFALL EVENT OF 0.5" OR GREATER. THE COST OF THIS WORK SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR PERIMETER EROSION BARRIER.
25. THE CONTRACTOR SHALL ENSURE THAT EXPOSED AREAS HAVE ADEQUATE TEMPORARY SEEDING OR OTHER STABILIZATION PER THE NPDES 1 AND 14 DAY RULE.
26. CONCRETE WASHOUT AREAS SHALL BE ADEQUATELY SIGNED AND MAINTAINED. CONCRETE WASHOUT SHALL NOT ENTER ANY DRAINAGE STRUCTURE.
27. THE CONTRACTOR SHALL ENSURE THAT ALL MUD, SEDIMENT, AND DEBRIS RESULTING FROM CONSTRUCTION RELATED ACTIVITIES SHALL BE CONTAINED WITHIN THE PROJECT LIMITS.
28. THE CONTRACTOR SHALL MINIMIZE THE AMOUNT OF DUST THAT LEAVES THE SITE WHEN NEAR RESIDENTIAL PROPERTY.
29. THE COST OF PUSHING THE PIPE CULVERT THROUGH THE EXISTING BOX CULVERT WILL BE INCLUDED IN THE COST OF PIPE CULVERTS, CLASS A, TYPE 2 OF THE RESPECTIVE SIZE, NO ADDITIONAL COMPENSATION WILL BE PROVIDED TO THE CONTRACTOR FOR THIS WORK.
30. THE COST OF THE BULKHEAD AND FORMING USED WHEN PLACING THE CONTROLLED LOW-STRENGTH MATERIAL WILL BE INCLUDED IN THE COST OF CONTROLLED LOW-STRENGTH MATERIAL. NO ADDITIONAL COMPENSATION WILL BE PROVIDED TO THE CONTRACTOR FOR THIS WORK.

COMMITMENTS

NONE



USER NAME = Lin	DESIGNED - MA	REVISED -
PLLOT SCALE = 2.0000' / in.	DRAWN - MA	REVISED -
PLLOT DATE = 1/25/2018	CHECKED - ST	REVISED -
	DATE = 12/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

U.S. ROUTE 14 OVER UNNAMED DITCHES GENERAL NOTES			
SCALE: N.T.S.	SHEET 1 OF 1 SHEETS	STA.	TO STA.

F.A.P. RTE. 305	SECTION 2015-089B	COUNTY MCHENRY	TOTAL SHEETS 34	SHEET NO. 2
CONTRACT NO. 62894				
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FEDERAL / 20% STATE FUNDS	
				ROADWAY	
				0004	URBAN
20200100	EARTH EXCAVATION	CU YD	85	85	
20400800	FURNISHED EXCAVATION	CU YD	550	550	
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	2,272	2,272	
25000310	SEEDING, CLASS 4	ACRE	0.50	0.50	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	30	30	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	30	30	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	30	30	
25100115	MULCH, METHOD 2	ACRE	0.50	0.50	
28000305	TEMPORARY DITCH CHECKS	FOOT	210	210	
28000400	PERIMETER EROSION BARRIER	FOOT	1,139	1,139	
28100107	STONE RIPRAP, CLASS A4	SQ YD	14	14	
28200200	FILTER FABRIC	SQ YD	14	14	
48101500	AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	378	378	
50104400	CONCRETE HEADWALL REMOVAL	EACH	4	4	

* SPECIALTY ITEM



USER NAME = Lin	DESIGNED - MA	REVISED -
PLOT SCALE = 2.0000' / in.	DRAWN - MA	REVISED -
PLOT DATE = 1/31/2018	CHECKED - ST	REVISED -
	DATE - 12/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

U.S. ROUTE 14 OVER UNNAMED DITCHES
SUMMARY OF QUANTITIES

SCALE: N.T.S. SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	2015-089B	MCHENRY	34	3
CONTRACT NO. 62894				
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FEDERAL / 20% STATE FUNDS	
				ROADWAY	
				0004	
				URBAN	
50105220	PIPE CULVERT REMOVAL	FOOT	64		64
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	2		2
54213681	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 36"	EACH	4		4
542A1069	PIPE CULVERTS, CLASS A, TYPE 2 24"	FOOT	83		83
542A1081	PIPE CULVERTS, CLASS A, TYPE 2 36"	FOOT	162		162
59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	168		168
63200310	GUARDRAIL REMOVAL	FOOT	358		358
66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	84		84
66900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1		1
66900530	SOIL DISPOSAL ANALYSIS	EACH	3		3
67000400	ENGINEER'S FIELD OFFICE - TYPE A	CAL MO	6		6
67100100	MOBILIZATION	LSUM	1		1
X0326390	CONCRETE SLAB REMOVAL	SQ YD	14		14
X7010216	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	LSUM	1		1
Z0005305	BOX CULVERTS TO BE CLEANED	FOOT	151		151

* SPECIALTY ITEM



USER NAME = Lin
 PLOT SCALE = 2.0000" = 1'
 PLOT DATE = 1/31/2018

DESIGNED - MA
 DRAWN - MA
 CHECKED - ST
 DATE - 12/2017

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

U.S. ROUTE 14 OVER UNNAMED DITCHES
 SUMMARY OF QUANTITIES
 SCALE: N.T.S. SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	2015-089B	MCHENRY	34	4
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62B94	

Revised

REV

EXCAVATION TABLE

EARTH EXCAVATION	EARTH EXC. ADJ. FOR SHRINKAGE (15%)	EMBANKMENT	EARTHWORK BALANCE (+/-)
(CU YD)	(CU YD)	(CU YD)	(CU YD)
85	75	620	550

FROM STATION	TO STATION	LT/RT	TOPSOIL FURNISH AND PLACE, 4"	SEEDING, CLASS 4	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	MULCH, METHOD 2
			SQ YD	ACRE	POUND	POUND	POUND	ACRE
1024+50.00	1026+50.00	LT	628.86	0.13	7.80	7.80	7.80	0.13
1025+00.00	1026+50.00	RT	461.57	0.10	5.72	5.72	5.72	0.10
1099+50.00	1100+50.00	LT	157.15	0.03	1.95	1.95	1.95	0.03
1099+50.00	1100+50.00	RT	200.26	0.04	2.48	2.48	2.48	0.04
1137+50.00	1139+00.00	LT	429.19	0.09	5.32	5.32	5.32	0.09
1137+50.00	1139+00.00	RT	394.36	0.08	4.89	4.89	4.89	0.08
ROUNDED TOTAL			2,272	0.50	30	30	30	0.50

PERIMETER EROSION BARRIER

FROM STATION	TO STATION	LT/RT	FOOT
1024+50.00	1026+50.00	LT	258.14
1025+00.00	1026+50.00	RT	203.65
1099+50.00	1100+50.00	LT	141.03
1099+50.00	1100+50.00	RT	135.64
1137+50.00	1139+00.00	LT	199.80
1137+50.00	1139+00.00	RT	199.85
ROUNDED TOTAL			1,139

STONE RIPRAP, CLASS A4

FROM STATION	TO STATION	LT/RT	SQ YD
1100+10.13	1100+27.04	LT	13.47
ROUNDED TOTAL			14

FILTER FABRIC

FROM STATION	TO STATION	LT/RT	SQ YD
1100+10.13	1100+27.04	LT	13.47
ROUNDED TOTAL			14

AGGREGATE SHOULDER, TYPE B 6"

FROM STATION	TO STATION	LT/RT	SQ YD
1024+50.00	1026+50.00	LT	88.89
1025+00.00	1026+50.00	RT	66.67
1099+50.00	1100+50.00	LT	44.54
1099+50.00	1100+50.00	RT	44.35
1137+50.00	1139+00.00	LT	66.36
1137+50.00	1139+00.00	RT	66.98
ROUNDED TOTAL			378

CONCRETE HEADWALL REMOVAL

STATION	LT/RT	EACH
1025+30.12	LT	1
1025+30.24	RT	1
1100+03.10	RT	1
1100+12.89	LT	1
TOTAL		4

PIPE CULVERT REMOVAL

STATION	LT/RT	FOOT
1025+30.12	LT	10.31
1025+30.24	RT	11.89
1100+03.10	RT	23.64
1100+12.89	LT	17.45
ROUNDED TOTAL		64

PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"

STATION	LT/RT	EACH
1138+09.68	RT	1
1138+10.10	LT	1
TOTAL		2

PRECAST REINFORCED CONCRETE FLARED END SECTIONS 36"

STATION	LT/RT	EACH
1025+30.09	LT	1
1025+30.26	RT	1
1100+01.36	RT	1
1100+12.23	LT	1
TOTAL		4

PIPE CULVERTS, CLASS A, TYPE 2 24"

STATION	LT/RT	FOOT
1138+09.90	LT/RT	82.69
ROUNDED TOTAL		83

PIPE CULVERTS, CLASS A, TYPE 2 36"

STATION	LT/RT	FOOT
1025+30.18	LT/RT	87.45
1100+06.36	LT/RT	74.24
ROUNDED TOTAL		162

CONTROLLED LOW-STRENGTH MATERIAL

STATION	LT/RT	CU YD
1025+30.18	LT/RT	67.32
1100+06.36	LT/RT	46.43
1138+09.90	LT/RT	53.64
ROUNDED TOTAL		168

GUARDRAIL REMOVAL

FROM STATION	TO STATION	LT/RT	FOOT
1136+89.77	1139+31.21	LT	179.02
1137+51.11	1138+67.32	RT	178.68
ROUNDED TOTAL			358

CONCRETE SLAB REMOVAL

FROM STATION	TO STATION	LT/RT	SQ YD
1100+10.13	1100+27.09	LT	13.47
ROUNDED TOTAL			14

BOX CULVERTS TO BE CLEANED

STATION	LT/RT	FOOT
1025+30.18	LT/RT	62.83
1100+06.36	LT/RT	43.33
1138+09.90	LT/RT	44.08
ROUNDED TOTAL		151

TEMPORARY INFORMATION SIGNING

STATION	LT/RT	SQ FT
1015+00.00	RT	16.00
1020+00.00	RT	16.00
1031+50.00	LT	16.00
1036+50.00	LT	16.00
1089+50.00	RT	16.00
1094+50.00	RT	16.00
1105+50.00	LT	16.00
1110+50.00	LT	16.00
1126+85.00	RT	16.00
1131+85.00	RT	16.00
1144+50.00	LT	16.00
1149+50.00	LT	16.00
ROUNDED TOTAL		192

TEMPORARY DITCH CHECKS

STATION	LT/RT	FOOT
1025+00.00	LT	27.27
1025+00.00	RT	27.27
1025+50.00	LT	24.24
1025+00.00	RT	24.24
1100+00.00	LT	10.61
1099+89.89	RT	10.61
1100+28.20	LT	10.61
1100+28.20	RT	10.61
1137+50.00	LT	21.21
1137+50.00	RT	21.21
1139+00.00	LT	10.61
1139+00.00	RT	10.61
ROUNDED TOTAL		210



USER NAME = Lin	DESIGNED - MA	REVISED -
	DRAWN - MA	REVISED -
PLOT SCALE = 2,0000' / in.	CHECKED - ST	REVISED -
PLOT DATE = 1/25/2018	DATE - 12/2017	REVISED -

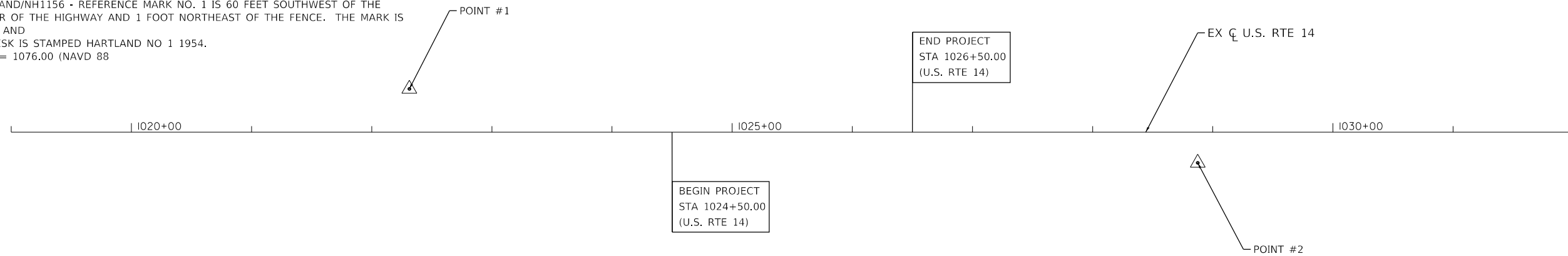
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**U.S. ROUTE 14 OVER UNNAMED DITCHES
SCHEDULE OF QUANTITIES**

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

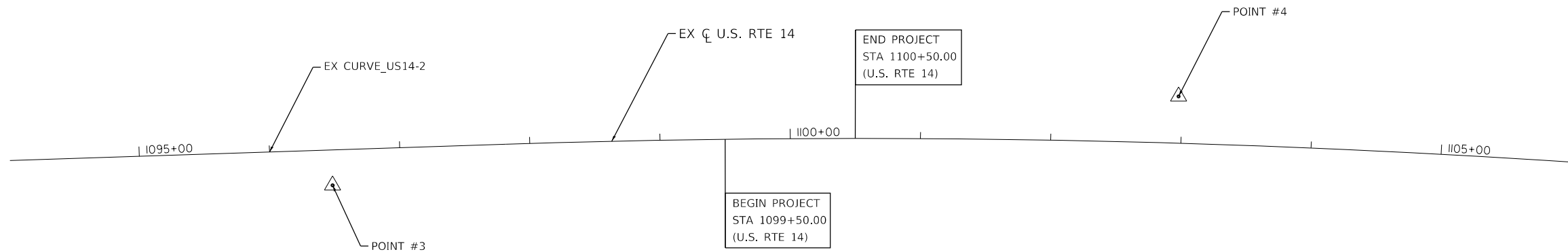
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	2015-089B	MCHENRY	34	6
CONTRACT NO. 62B94			ILLINOIS FED. AID PROJECT	

BENCHMARK: HARTLAND/NH1156 - REFERENCE MARK NO. 1 IS 60 FEET WEST OF THE CENTER OF THE HIGHWAY AND 1 FOOT NORTHEAST OF THE FENCE. THE MARK IS FLUSH AND THE DISK IS STAMPED HARTLAND NO 1 1954. ELEV. = 1076.00 (NAVD 88)



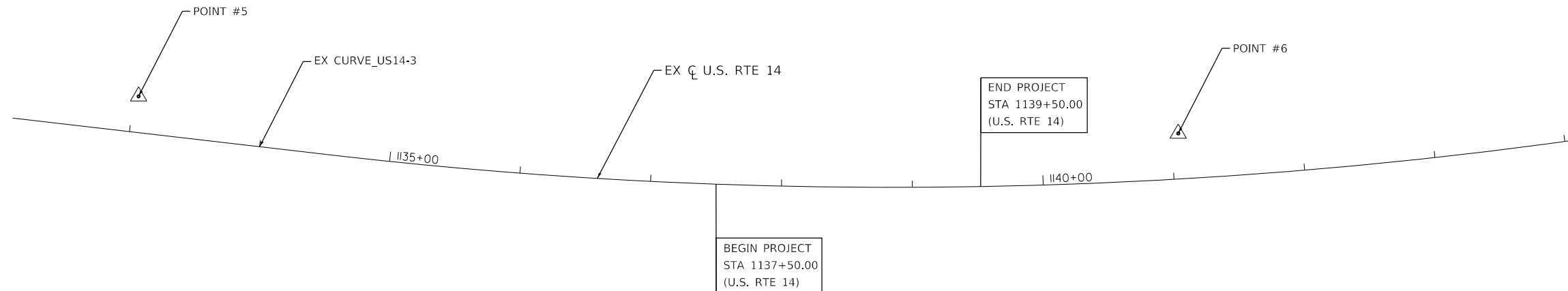
S.N. 056-0194

EXIST. CURVE EX_US14-2
 PI STA. = 1113+65.71
 I = 21° 44' 56" (RT)
 D = 0° 41' 41"
 R = 8,245.70'
 T = 1,584.06'
 L = 3,129.99'
 E = 150.78'
 e = _____
 T.R. = _____
 S.E. RUN = _____
 P.C. STA. = 1097+81.65
 P.T. STA. = 1129+11.64

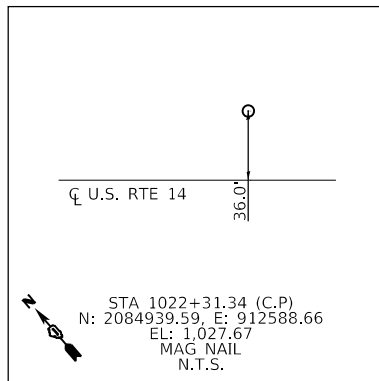
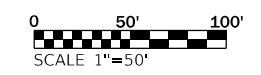


S.N. 056-0193

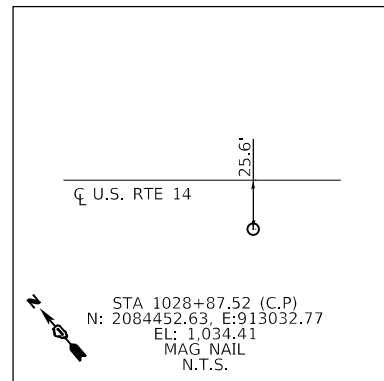
EXIST. CURVE EX_US14-3
 PI STA. = 1141+08.00
 I = 19° 48' 51" (LT)
 D = 1° 31' 26"
 R = 3,760.00'
 T = 656.70'
 L = 1,300.29'
 E = 56.92'
 e = _____
 T.R. = _____
 S.E. RUN = _____
 P.C. STA. = 1134+51.30
 P.T. STA. = 1147+51.59



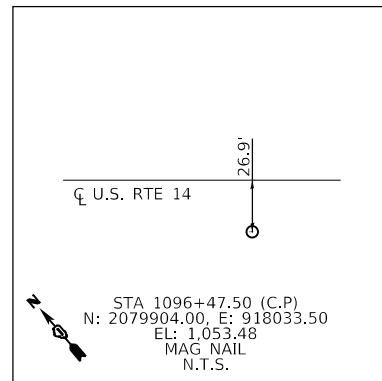
S.N. 056-0269



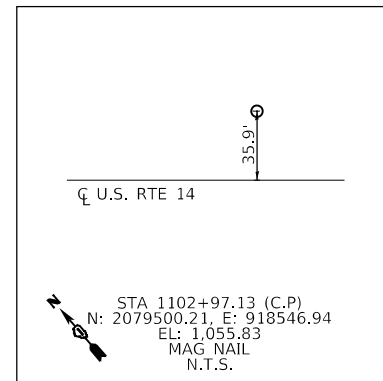
CONTROL POINT #1



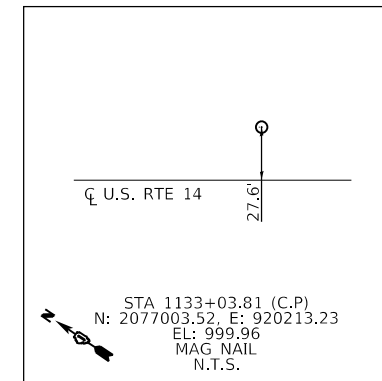
CONTROL POINT #2



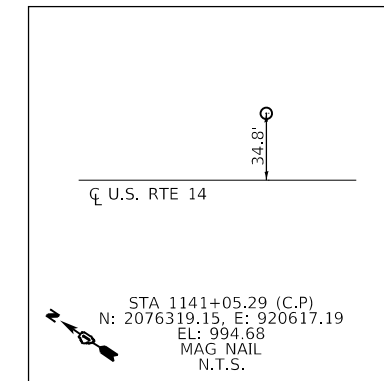
CONTROL POINT #3



CONTROL POINT #4



CONTROL POINT #5



CONTROL POINT #6



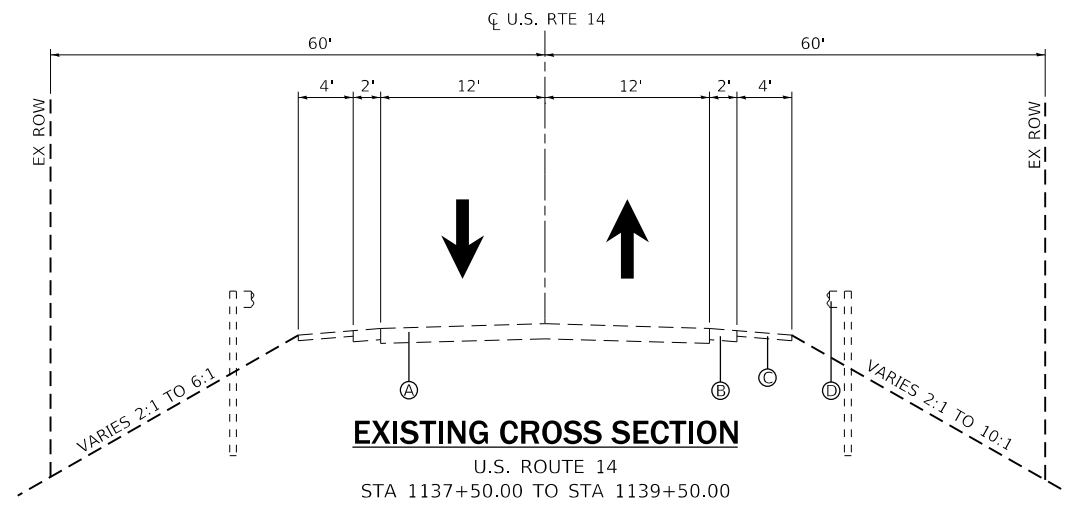
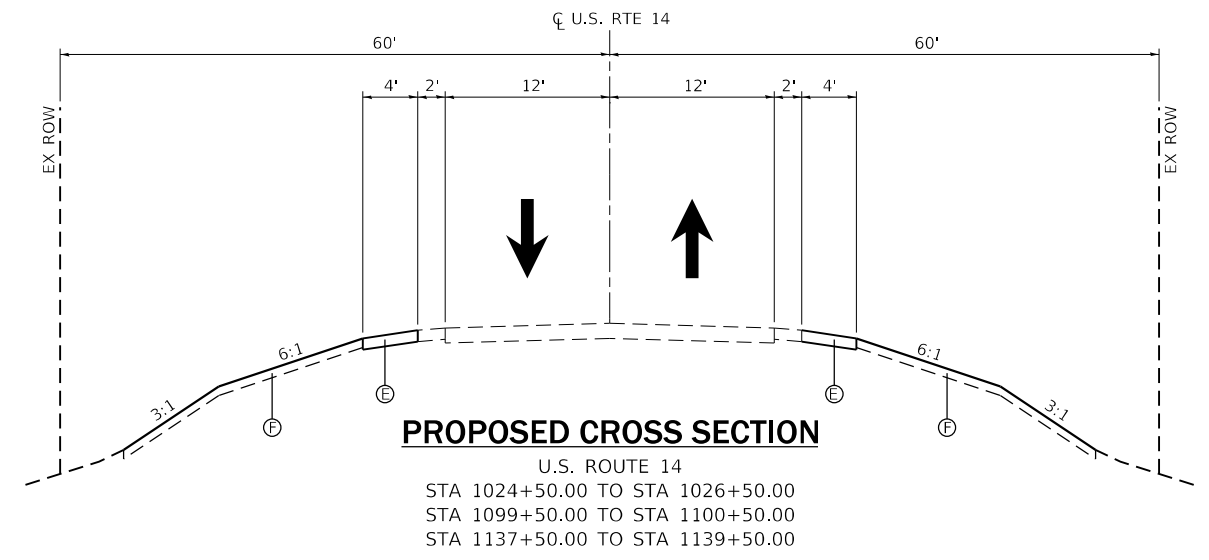
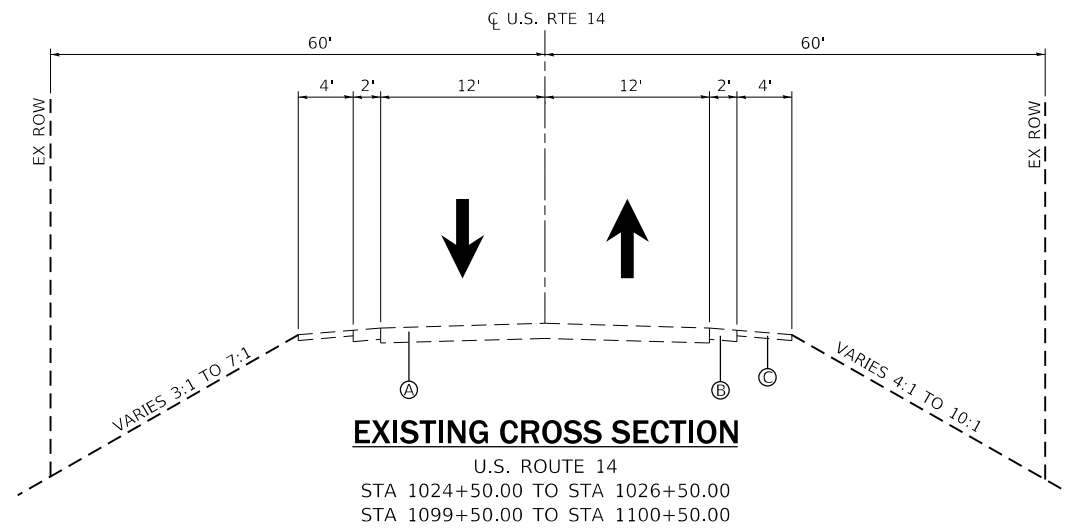
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PLOT DATE = 12/28/2017	CHECKED - ST	REVISED -
	DATE - 12/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**U.S. ROUTE 14 OVER UNNAMED DITCHES
ALIGNMENT, TIES AND BENCHMARKS**

SCALE: 1"=50' SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	2015-089B	MCHENRY	34	7
CONTRACT NO. 62B94			ILLINOIS FED. AID PROJECT	



LEGEND

- Ⓐ EXISTING BITUMINOUS PAVEMENT
- Ⓑ EXISTING PAVED SHOULDER
- Ⓒ EXISTING GRAVEL SHOULDER
- Ⓓ EXISTING GUARDRAIL
- Ⓔ PROPOSED 6" AGGREGATE SHOULDER
- Ⓕ PROPOSED 4" TOPSOIL FURNISH IN PLACE

USER NAME = Lin	DESIGNED - RC	REVISED -
	DRAWN - RC	REVISED -
PLOT SCALE = 1/4" = 14.0000' / in.	CHECKED - ST	REVISED -
PLOT DATE = 12/28/2017	DATE - 12/2017	REVISED -

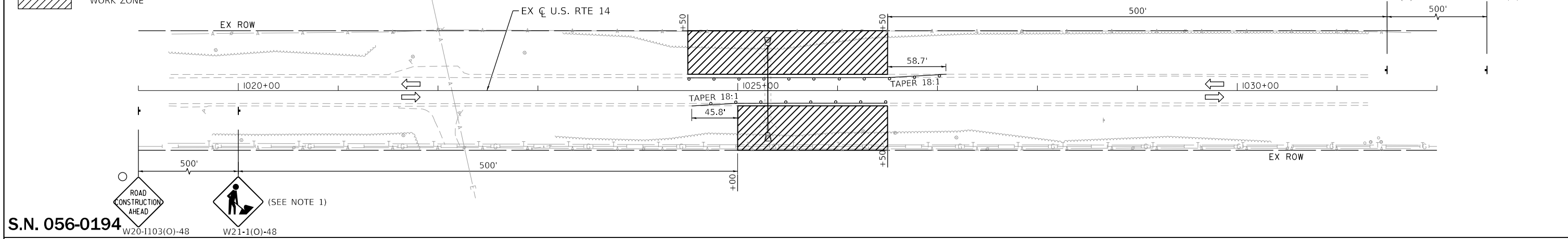
U.S. ROUTE 14 OVER UNNAMED DITCHES TYPICAL SECTIONS		
SCALE: N.T.S.	SHEET 1 OF 1 SHEETS	STA. TO STA.

F.A.P. RTE. 305	SECTION 2015-089B	COUNTY MCHENRY	TOTAL SHEETS 34	SHEET NO. 8
			CONTRACT NO. 62B94	
ILLINOIS FED. AID PROJECT				

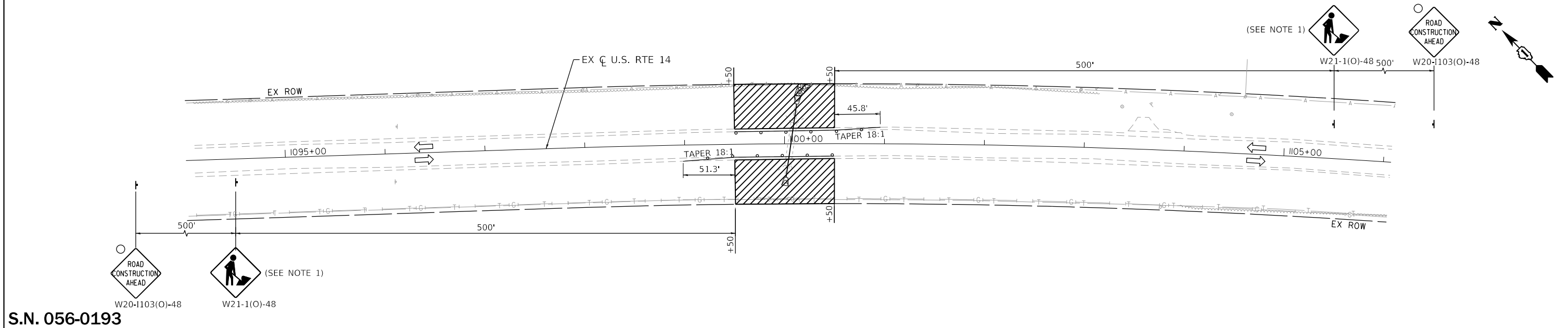
LEGEND

- ↑ SIGN
- DRUMS AT 25' CENTERS APPROACHING,
50' CENTERS THROUGH WORK ZONE
- ▨ WORK ZONE

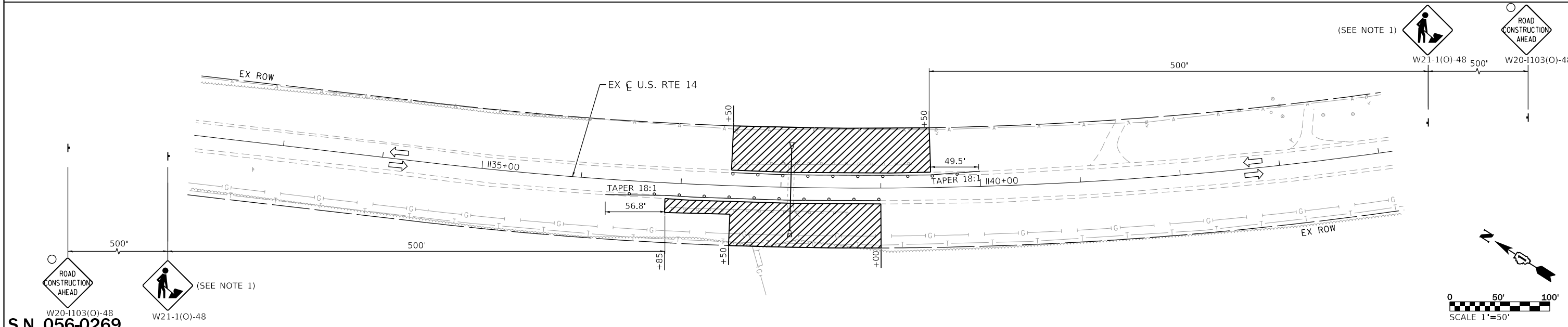
NOTE:
1. MUST BE REMOVED WHEN WORKERS ARE NOT PRESENT FOR MORE THAN ONE HOUR



S.N. 056-0194



S.N. 056-0193



S.N. 056-0269

Lin Engineering, Ltd.
Consulting Engineers
Westmont, Illinois

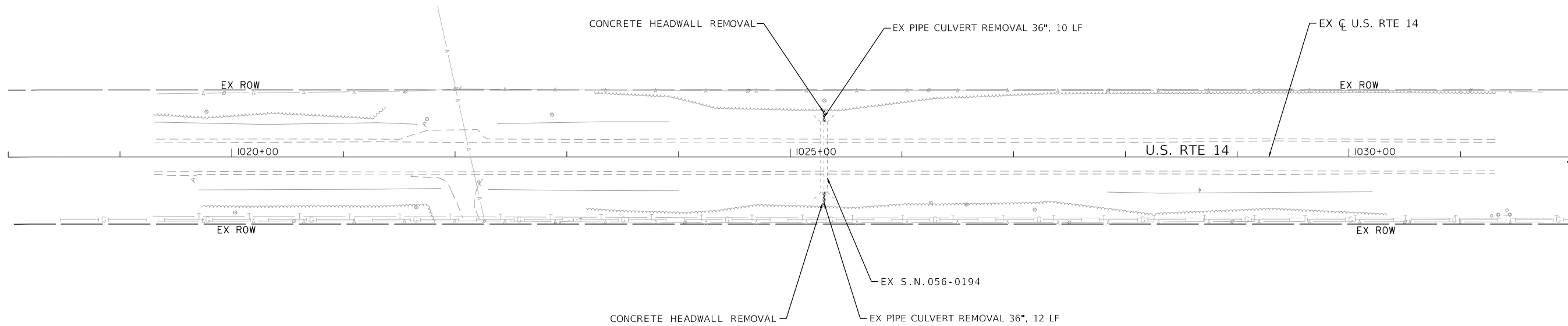
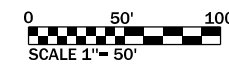
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DRAWN - MA	REVISED -	
PLOT SCALE = 100,0000' / in.	CHECKED - ST	REVISED -
PLOT DATE = 12/28/2017	DATE - 12/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**U.S. ROUTE 14 OVER UNNAMED DITCHES
MAINTENANCE OF TRAFFIC PLAN**

SCALE: 1"=50' SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	2015-089B	MCHENRY	34	9
CONTRACT NO. 62B94			ILLINOIS FED. AID PROJECT	



REMOVAL LEGEND

- PIPE CULVERT REMOVAL
- GUARDRAIL REMOVAL

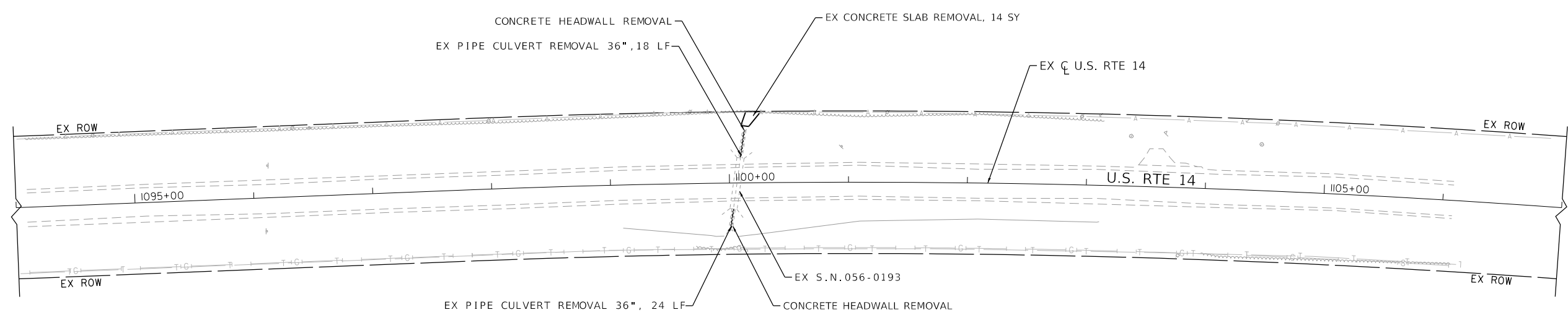
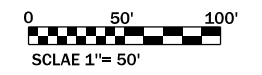
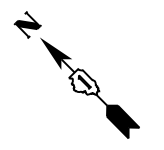


USER NAME = Lin	DESIGNED - MA	REVISED -
	DRAWN - MA	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - ST	REVISED -
PLOT DATE = 12/28/2017	DATE - 12/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

U.S. ROUTE 14 OVER UNNAMED DITCHES REMOVAL PLAN		
SCALE: 1"=50'	SHEET 1 OF 3 SHEETS	STA. 1018+00.00 TO STA. 1032+00.00

F.A.P. RTE. 305	SECTION 2015-089B	COUNTY MCHENRY	TOTAL SHEETS 34	SHEET NO. 10
			CONTRACT NO. 62B94	
ILLINOIS FED. AID PROJECT				



REMOVAL LEGEND

- PIPE CULVERT REMOVAL
- GUARDRAIL REMOVAL

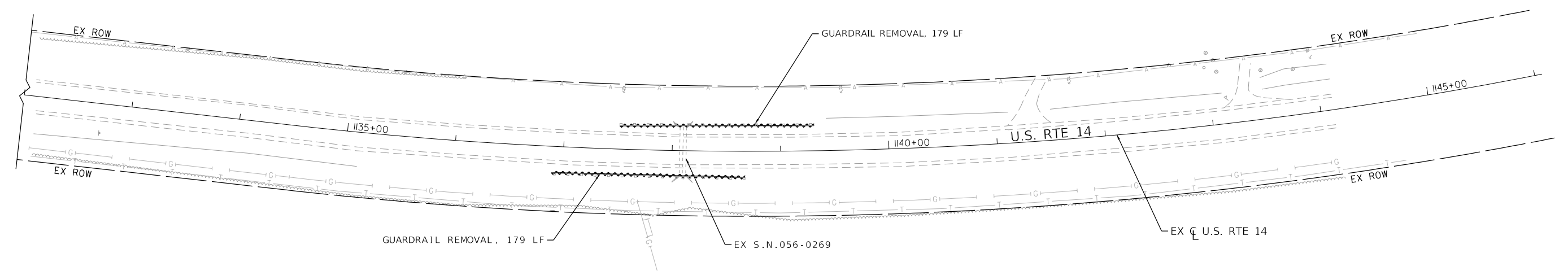
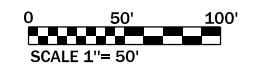
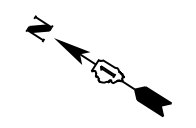


USER NAME = Lin	DESIGNED - MA	REVISED -
	DRAWN - MA	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - ST	REVISED -
PLOT DATE = 12/28/2017	DATE - 12/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

U.S. ROUTE 14 OVER UNNAMED DITCHES REMOVAL PLAN		
SCALE: 1"=50'	SHEET 2 OF 3 SHEETS	STA. 1094+00.00 TO STA. 1107+00.00

F.A.P. RTE. 305	SECTION 2015-089B	COUNTY MCHENRY	TOTAL SHEETS 34	SHEET NO. 11
			CONTRACT NO. 62B94	
ILLINOIS FED. AID PROJECT				



REMOVAL LEGEND

- PIPE CULVERT REMOVAL
- GUARDRAIL REMOVAL

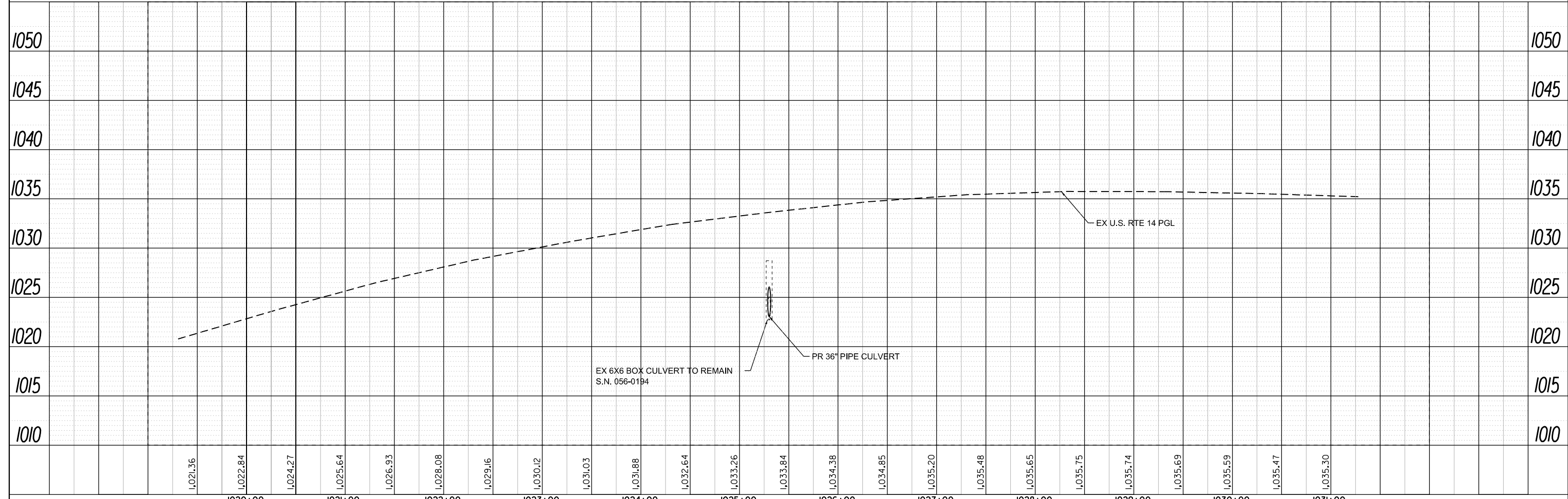
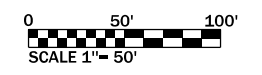
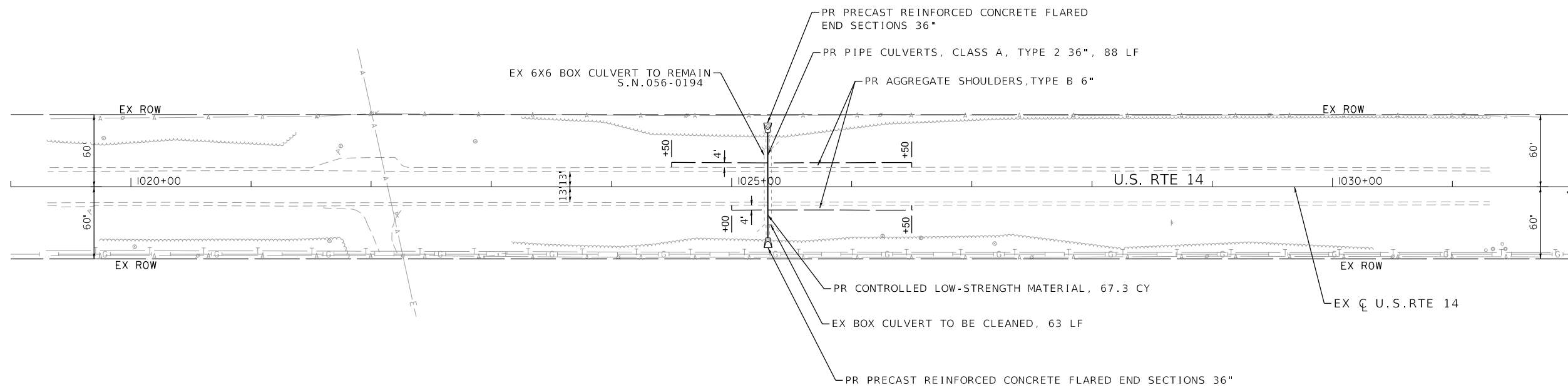
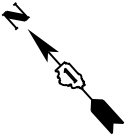


USER NAME = Lin	DESIGNED - MA	REVISED -
	DRAWN - MA	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - ST	REVISED -
PLOT DATE = 12/28/2017	DATE - 12/2017	REVISED -

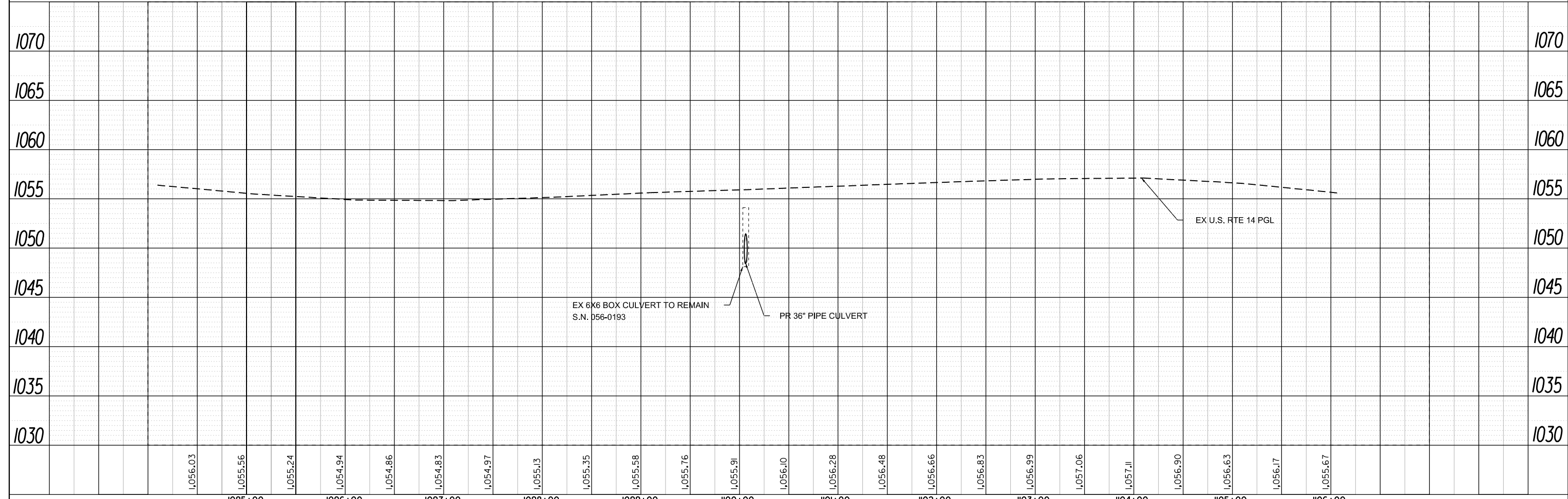
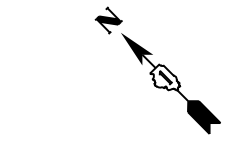
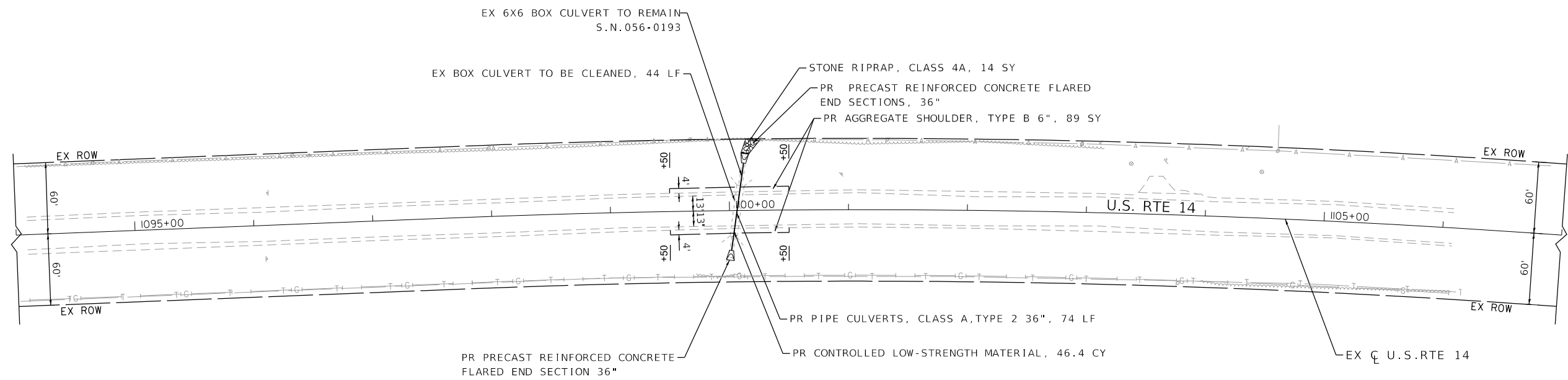
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

U.S. ROUTE 14 OVER UNNAMED DITCHES REMOVAL PLAN		
SCALE: 1"=50'	SHEET 3 OF 3 SHEETS	STA. 1132+00.00 TO STA. 1145+00.00

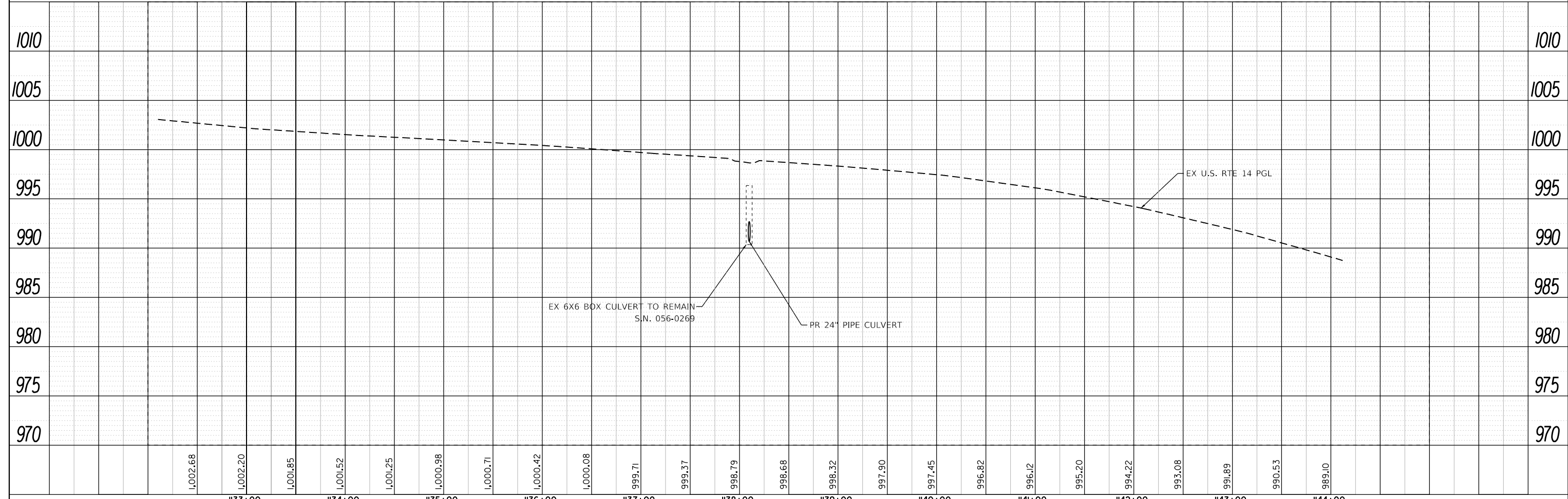
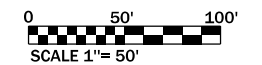
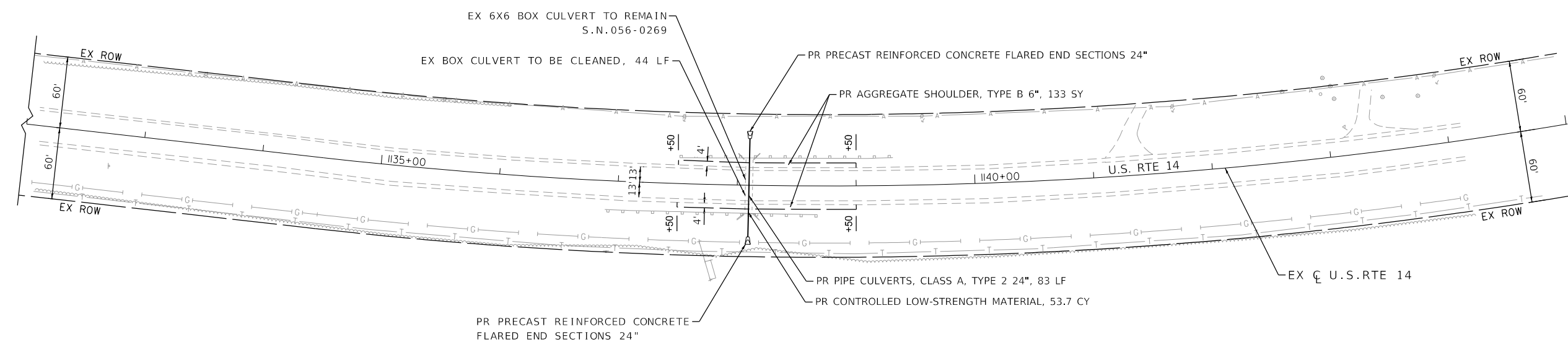
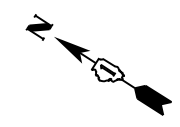
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	2015-089B	MCHENRY	34	12
CONTRACT NO. 62B94				
ILLINOIS FED. AID PROJECT				



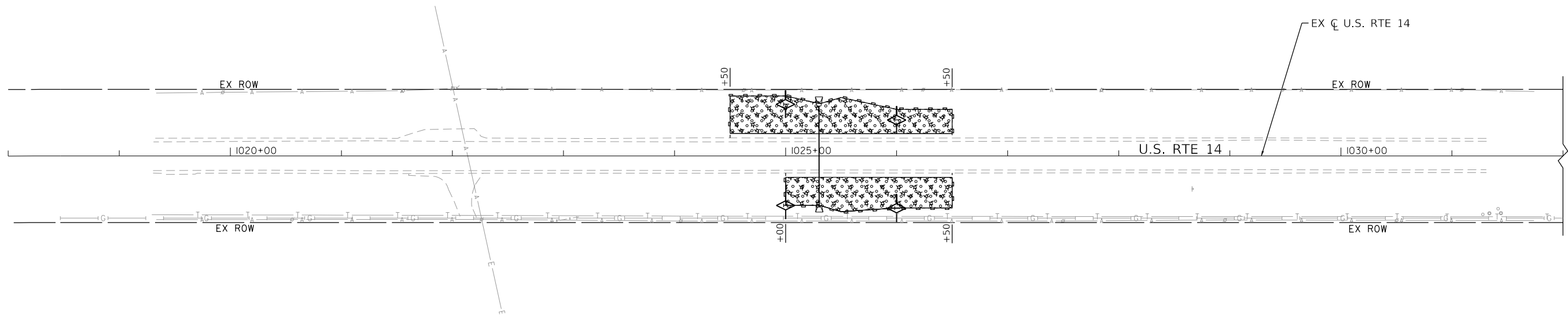
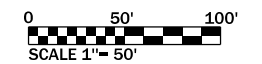
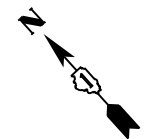
LIN ENGINEERING, LTD. Consulting Engineers Westmont, Illinois	USER NAME = Lin	DESIGNED - MA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	U.S. ROUTE 14 OVER UNNAMED DITCHES PLAN & PROFILE				F.A.P. RTE. 305	SECTION 2015-089B	COUNTY MCHENRY	TOTAL SHEETS 34	SHEET NO. 13
	PLOT SCALE = 100,0000' / in.	CHECKED - ST	REVISED -		SCALE: 1"=50' SHEET 1 OF 3 SHEETS STA. 1018+00.00 TO STA. 1032+00.00				CONTRACT NO. 62B94				
	PLOT DATE = 1/25/2018	DATE - 12/2017	REVISED -						ILLINOIS FED. AID PROJECT				



LIN ENGINEERING, LTD. Consulting Engineers Westmont, Illinois	USER NAME = Lin	DESIGNED - MA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	U.S. ROUTE 14 OVER UNNAMED DITCHES PLAN & PROFILE	F.A.P. RTE. 305 SECTION 2015-089B COUNTY MCHENRY TOTAL SHEETS 34 SHEET NO. 14 CONTRACT NO. 62B94 ILLINOIS FED. AID PROJECT
	PLOT SCALE = 100,0000' / in.	CHECKED - ST	REVISED -			
	PLOT DATE = 1/25/2018	DATE - 12/2017	REVISED -			
	SCALE: 1"=50' SHEET 2 OF 3 SHEETS STA. 1094+00.00 TO STA. 1107+00.00					



	1133+00	1134+00	1135+00	1136+00	1137+00	1138+00	1139+00	1140+00	1141+00	1142+00	1143+00	1144+00							
 LIN ENGINEERING, LTD. Consulting Engineers Westmont, Illinois	USER NAME = Lin	DESIGNED - MA	REVISD -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION U.S. ROUTE 14 OVER UNNAMED DITCHES PLAN & PROFILE SCALE: 1"=50' SHEET 3 OF 3 SHEETS STA. 1132+00.00 TO STA. 1145+00.00									F.A.P. RTE. 305	SECTION 2015-089B	COUNTY MCHENRY	TOTAL SHEETS 34	SHEET NO. 15		
	PLOT SCALE = 100,0000' / in.	CHECKED - ST	REVISD -										CONTRACT NO. 62B94					ILLINOIS FED. AID PROJECT	
	PLOT DATE = 1/25/2018	DATE - 12/2017	REVISD -																



EROSION CONTROL LEGEND

- SEEDING, CLASS 4
- MULCH, METHOD 2
- PERIMETER EROSION BARRIER
- TEMPORARY DITCH CHECKS



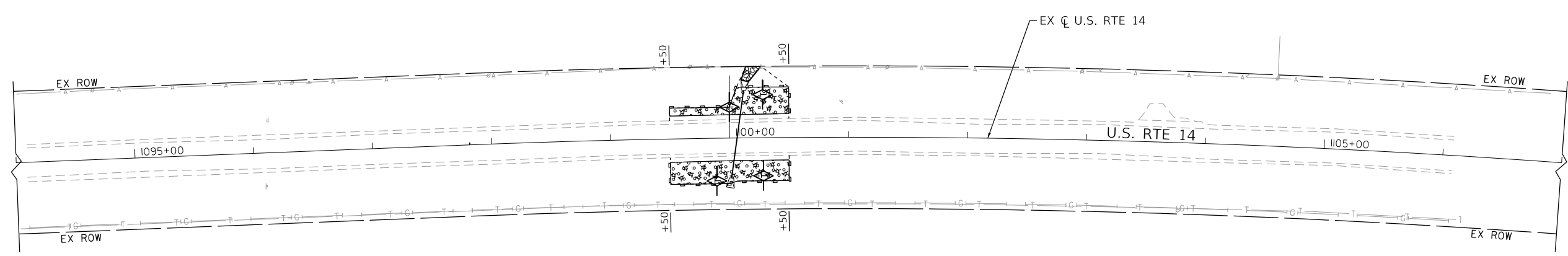
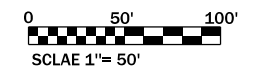
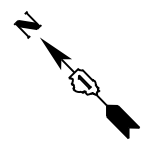
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	DRAWN - MA	REVISED -
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PLOT DATE = 12/28/2017	DATE - 12/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**U.S. ROUTE 14 OVER UNNAMED DITCHES
EROSION CONTROL PLAN**

SCALE: 1"=50' SHEET 1 OF 3 SHEETS STA. 1018+00.00 TO STA. 1032+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	2015-089B	MCHENRY	34	16
CONTRACT NO. 62B94				
ILLINOIS FED. AID PROJECT				



EROSION CONTROL LEGEND

- SEEDING, CLASS 4
- MULCH, METHOD 2
- PERIMETER EROSION BARRIER
- TEMPORARY DITCH CHECKS

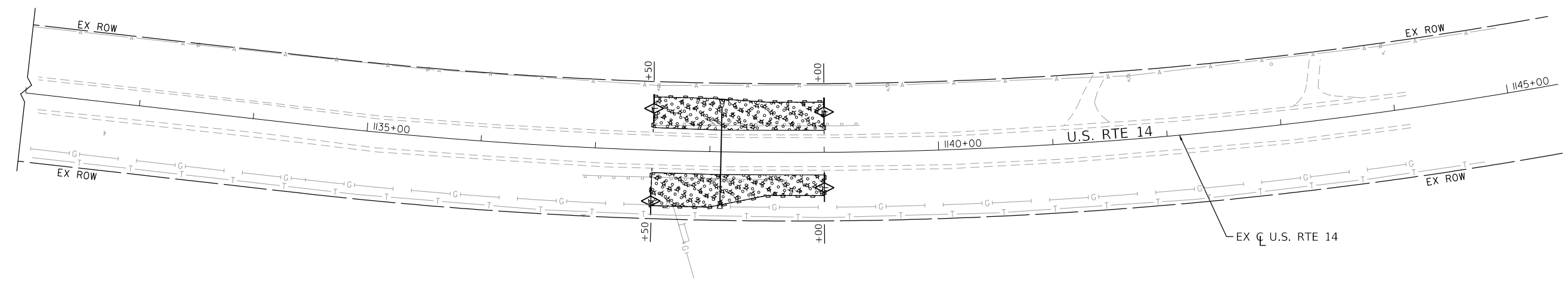
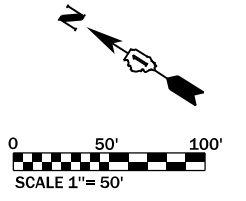


USER NAME = Lin	DESIGNED - MA	REVISED -
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PLOT DATE = 12/28/2017	DATE - 12/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

U.S. ROUTE 14 OVER UNNAMED DITCHES EROSION CONTROL PLAN	
SCALE: 1"=50'	SHEET 2 OF 3 SHEETS
STA. 1094+00.00 TO STA. 1107+00.00	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	2015-089B	MCHENRY	34	17
CONTRACT NO. 62B94				
ILLINOIS FED. AID PROJECT				



EROSION CONTROL LEGEND

- SEEDING, CLASS 4
- MULCH, METHOD 2
- PERIMETER EROSION BARRIER
- TEMPORARY DITCH CHECKS

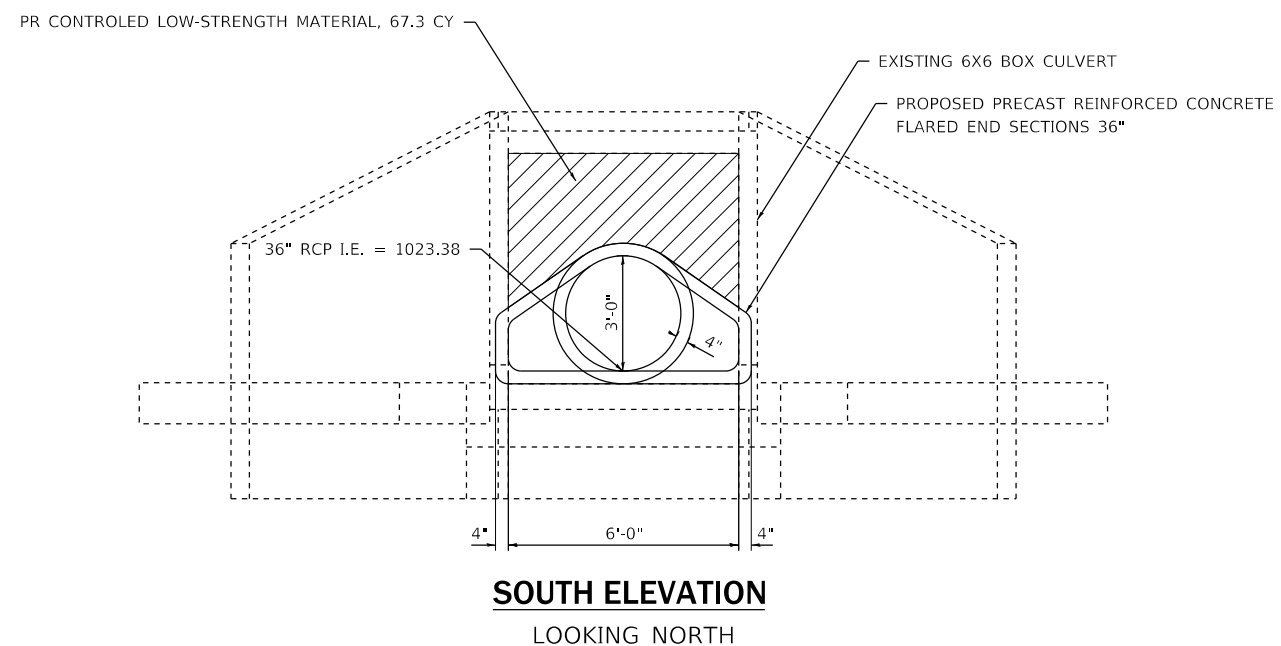
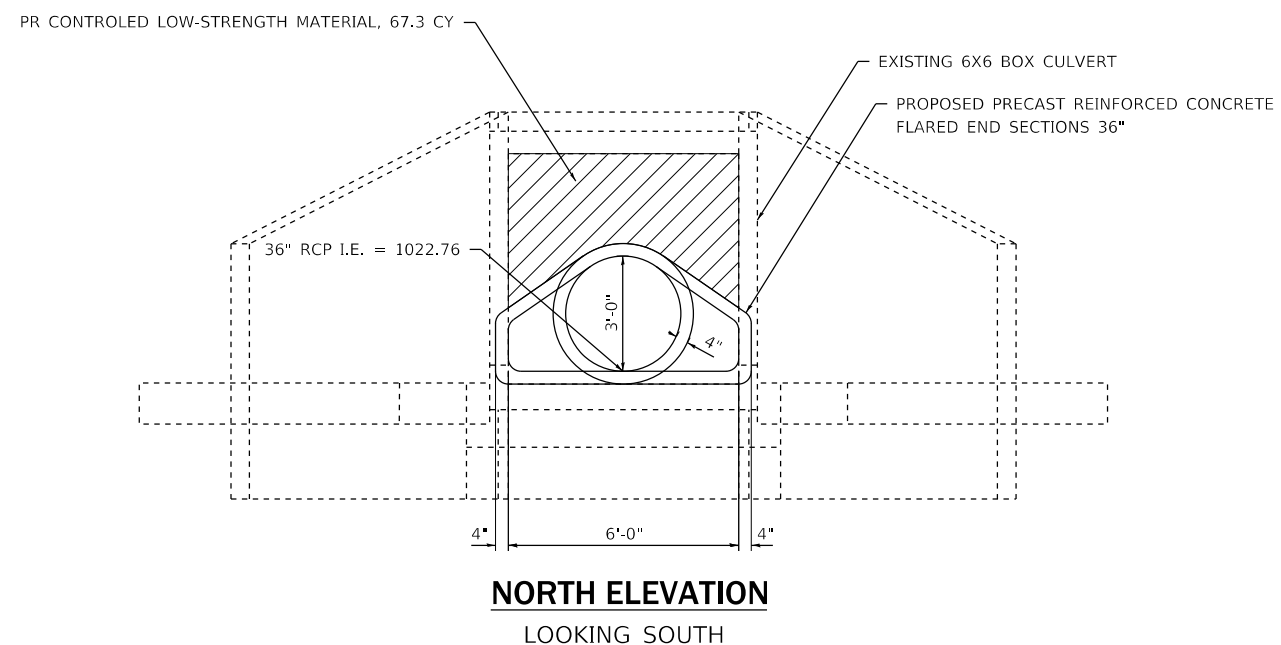
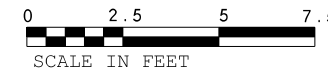


USER NAME = Lin	DESIGNED - MA	REVISED -
	DRAWN - MA	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - ST	REVISED -
PLOT DATE = 12/28/2017	DATE - 12/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

U.S. ROUTE 14 OVER UNNAMED DITCHES EROSION CONTROL PLAN		
SCALE: 1"=50'	SHEET 3 OF 3 SHEETS	STA. 1132+00.00 TO STA. 1145+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	2015-089B	MCHENRY	34	18
CONTRACT NO. 62B94				
ILLINOIS FED. AID PROJECT				



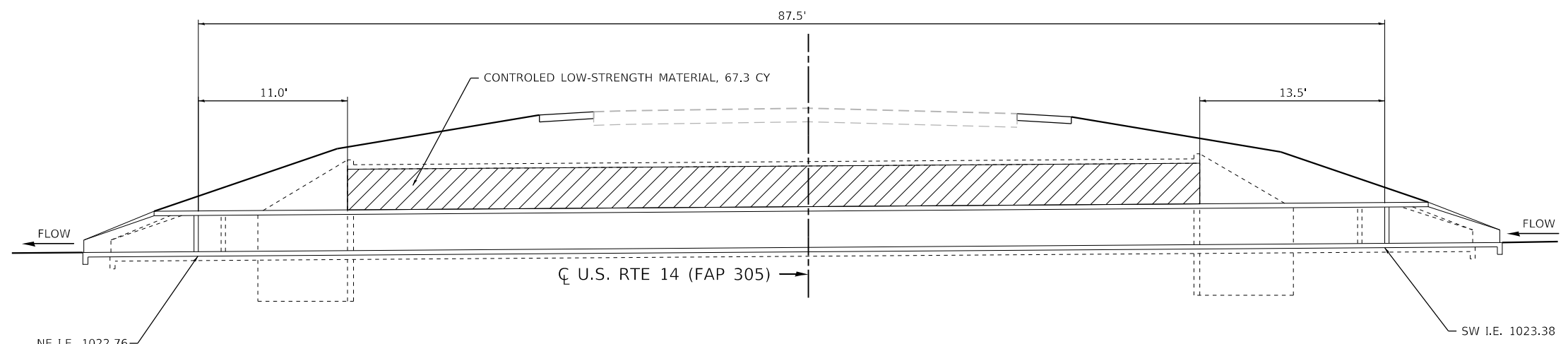
LEGEND

 CONTROLLED LOW-STRENGTH MATERIAL

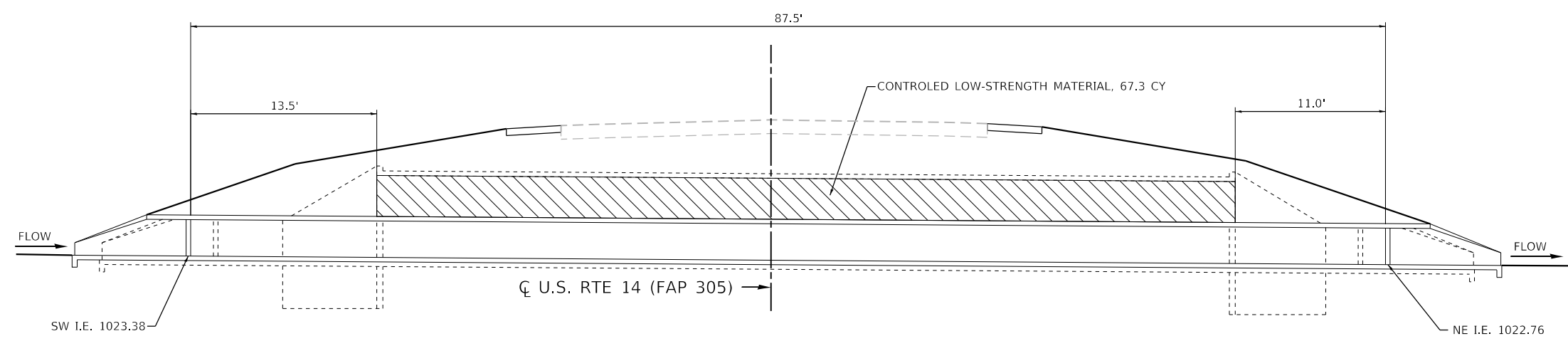
S.N. 056-0194

USER NAME = Lin	DESIGNED - MA	REVISED -
	DRAWN - MA	REVISED -
PLOT SCALE = 5,0000' / in.	CHECKED - ST	REVISED -
PLOT DATE = 12/28/2017	DATE - 12/2017	REVISED -

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	2015-089B	MCHENRY	34	19
			CONTRACT NO. 62B94	
ILLINOIS FED. AID PROJECT				



PROPOSED CROSS SECTION
LOOKING SOUTHEAST



PROPOSED CROSS SECTION
LOOKING NORTHWEST

LEGEND

CONTROLLED LOW-STRENGTH MATERIAL

S.N. 056-0194



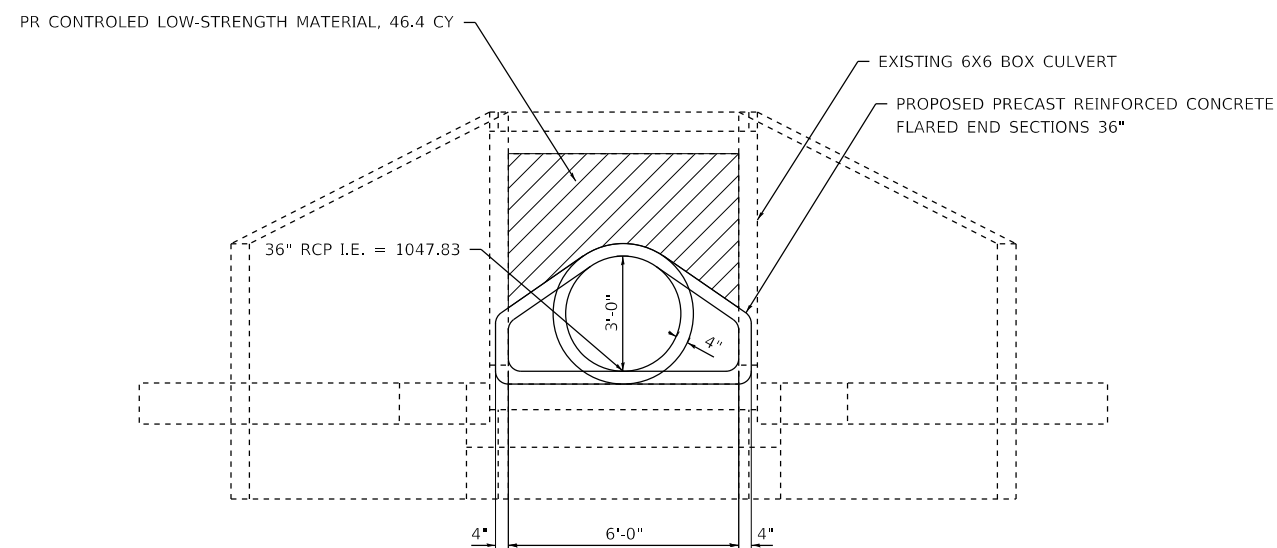
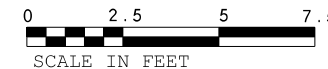
USER NAME = Lin	DESIGNED - MA	REVISED -
	DRAWN - MA	REVISED -
PLOT SCALE = 10.0000' / in.	CHECKED - ST	REVISED -
PLOT DATE = 12/28/2017	DATE - 12/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CULVERT LINER DETAIL (S.N. 056-0194)
PROPOSED CROSS SECTIONS

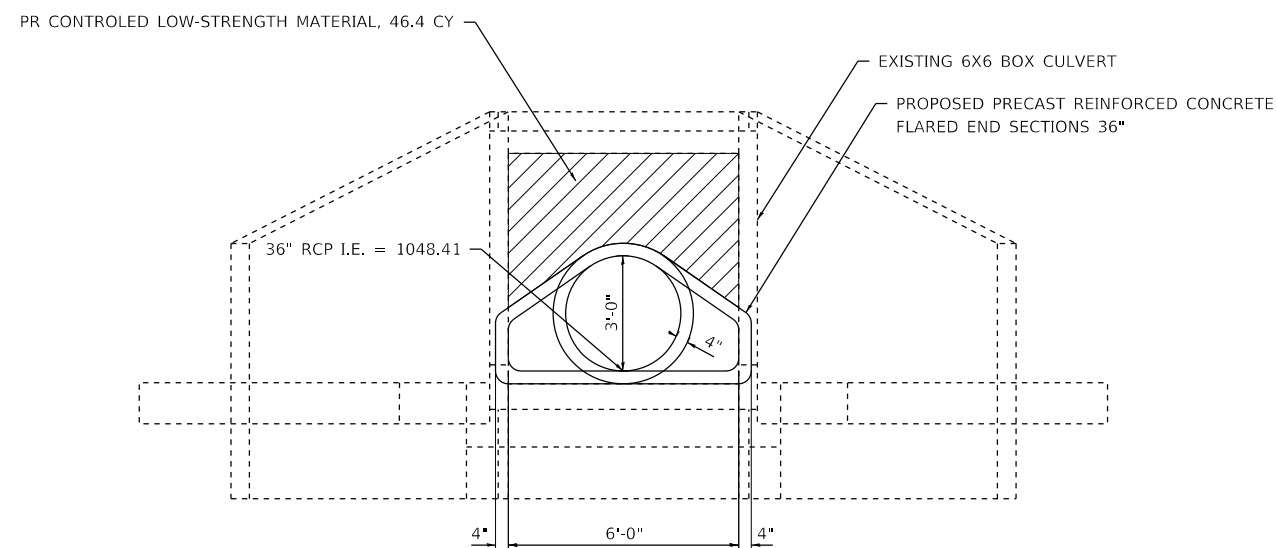
SCALE: 1"=5' SHEET 2 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	2015-089B	MCHENRY	34	20
CONTRACT NO. 62B94				
ILLINOIS FED. AID PROJECT				



NORTHEAST ELEVATION

LOOKING SOUTHWEST



SOUTHWEST ELEVATION

LOOKING NORTHEAST

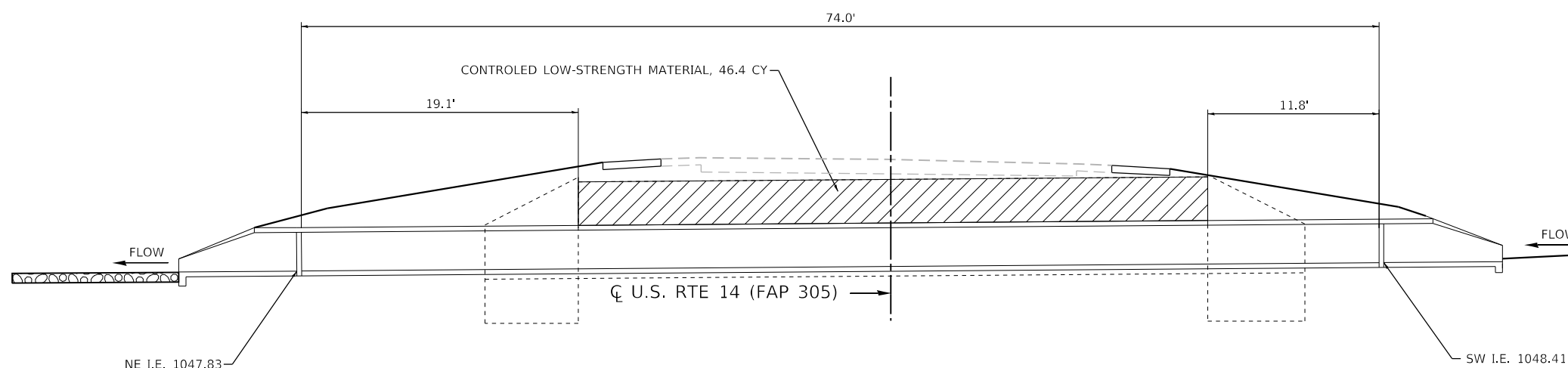
LEGEND

 CONTROLLED LOW-STRENGTH MATERIAL

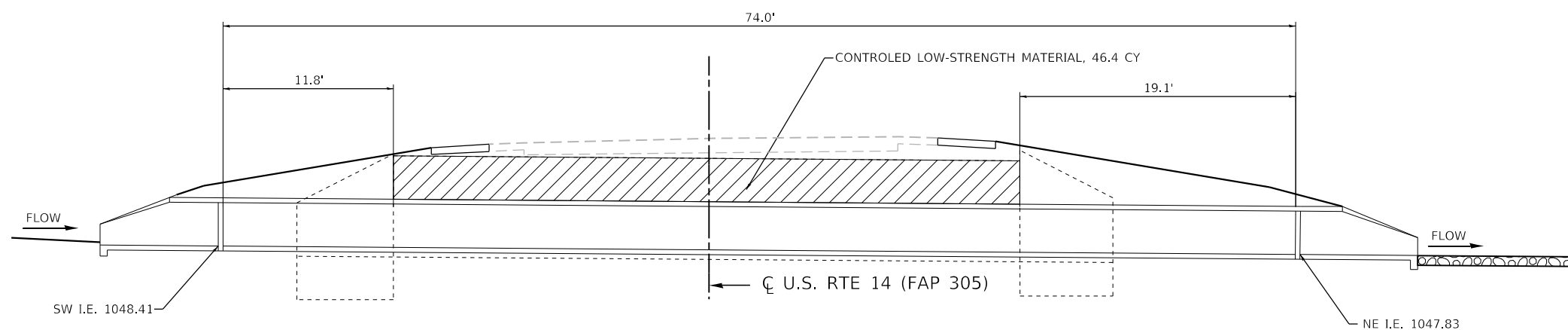
S.N. 056-0193

USER NAME = Lin	DESIGNED - MA	REVISED -
	DRAWN - MA	REVISED -
PLOT SCALE = 5,0000' / in.	CHECKED - ST	REVISED -
PLOT DATE = 12/28/2017	DATE - 12/2017	REVISED -

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	2015-089B	MCHENRY	34	21
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62B94	



PROPOSED CROSS SECTION
LOOKING SOUTHEAST



PROPOSED CROSS SECTION
LOOKING NORTHWEST

LEGEND

 CONTROLLED LOW-STRENGTH MATERIAL

S.N. 056-0193



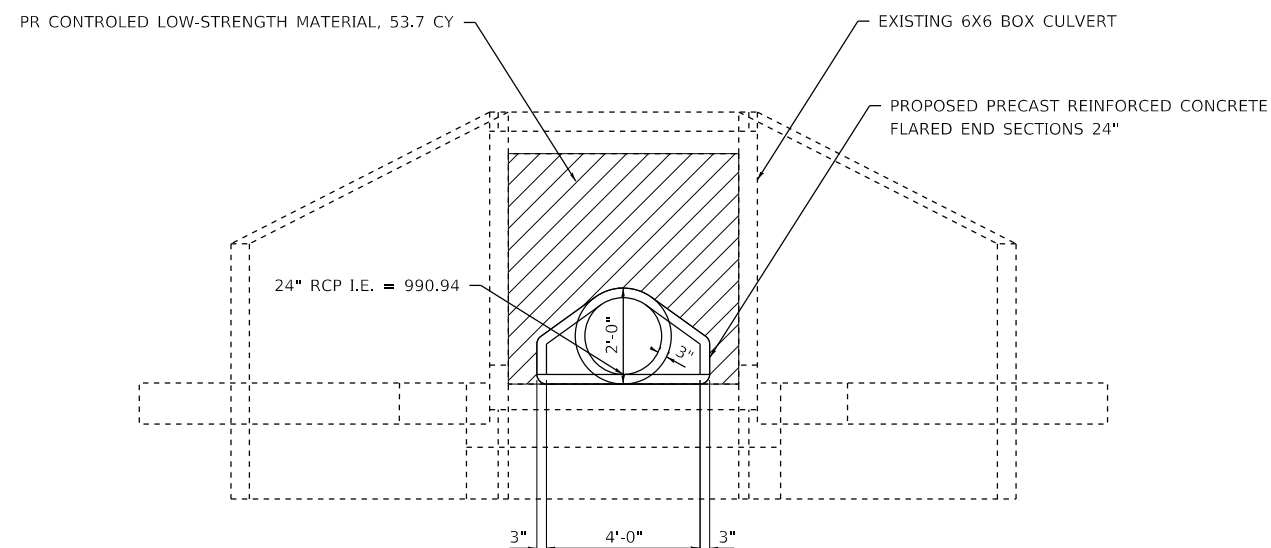
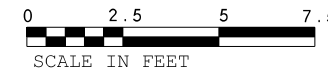
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	DRAWN - MA	REVISED -
PLOT SCALE = 10.0000' / in.	CHECKED - ST	REVISED -
PLOT DATE = 12/28/2017	DATE - 12/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

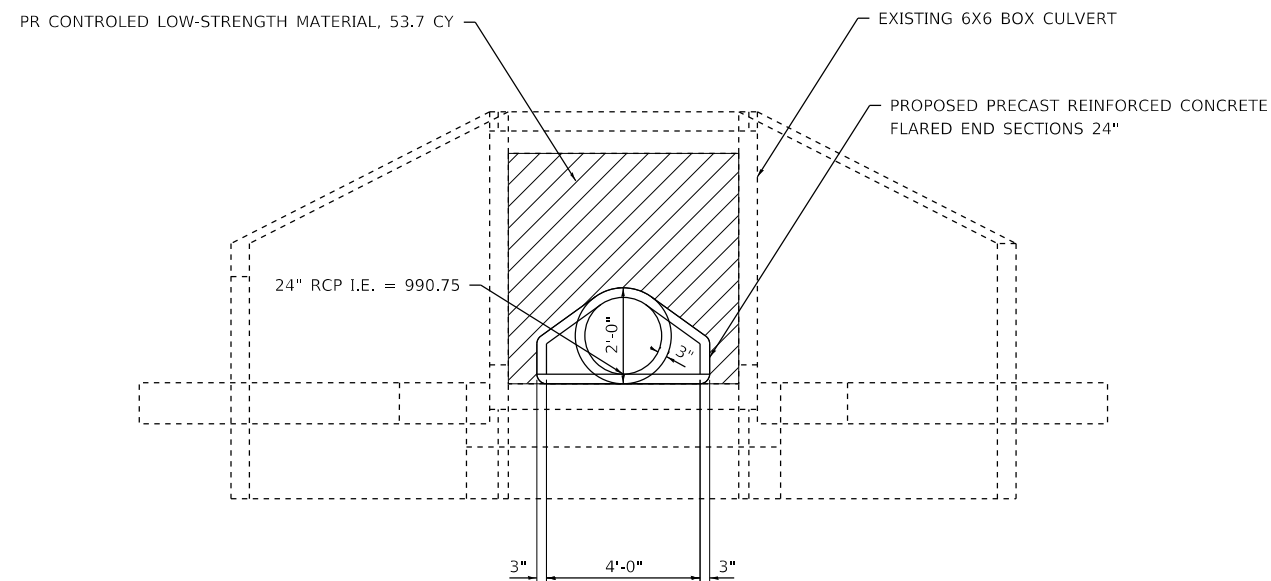
PROPOSED CULVERT LINER DETAIL (S.N. 056-0193)
PROPOSED CROSS SECTIONS

SCALE: 1"=5' SHEET 4 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	2015-089B	MCHENRY	34	22
CONTRACT NO. 62B94				
ILLINOIS FED. AID PROJECT				



NORTHEAST ELEVATION
LOOKING SOUTHWEST



SOUTHWEST ELEVATION
LOOKING NORTHEAST

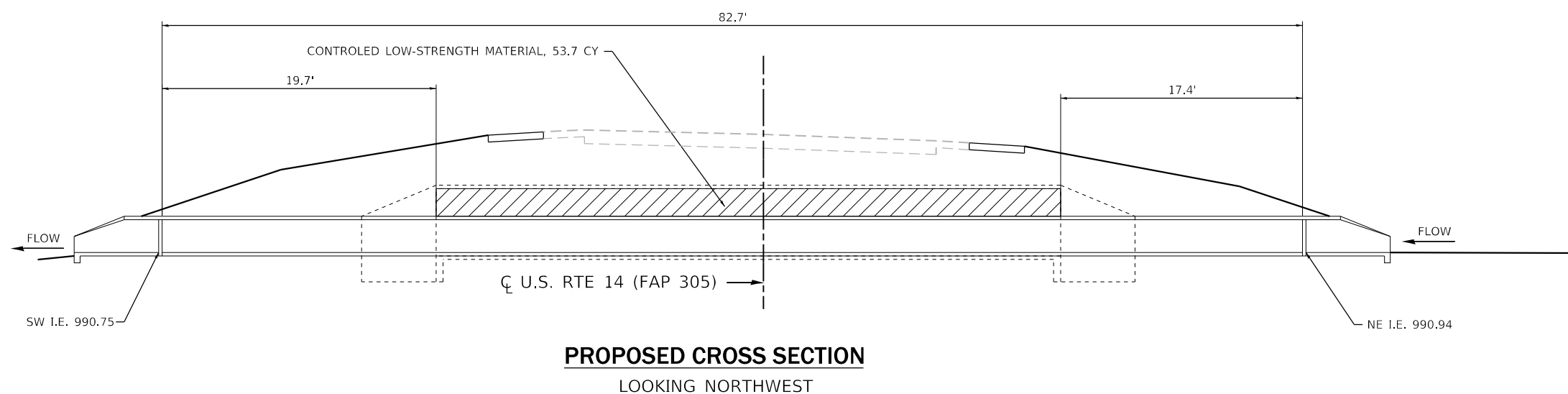
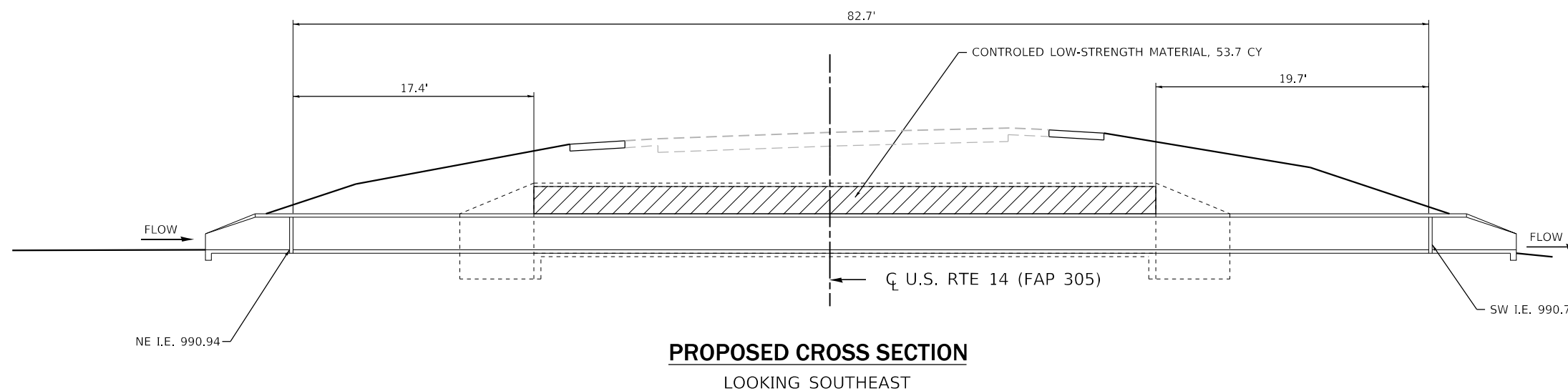
LEGEND

 CONTROLLED LOW-STRENGTH MATERIAL

S.N. 056-0269

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PLOT DATE = 12/28/2017	DATE - 12/2017	REVISED -

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	2015-089B	MCHENRY	34	23
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62B94	



LEGEND

CONTROLLED LOW-STRENGTH MATERIAL

S.N. 056-0269



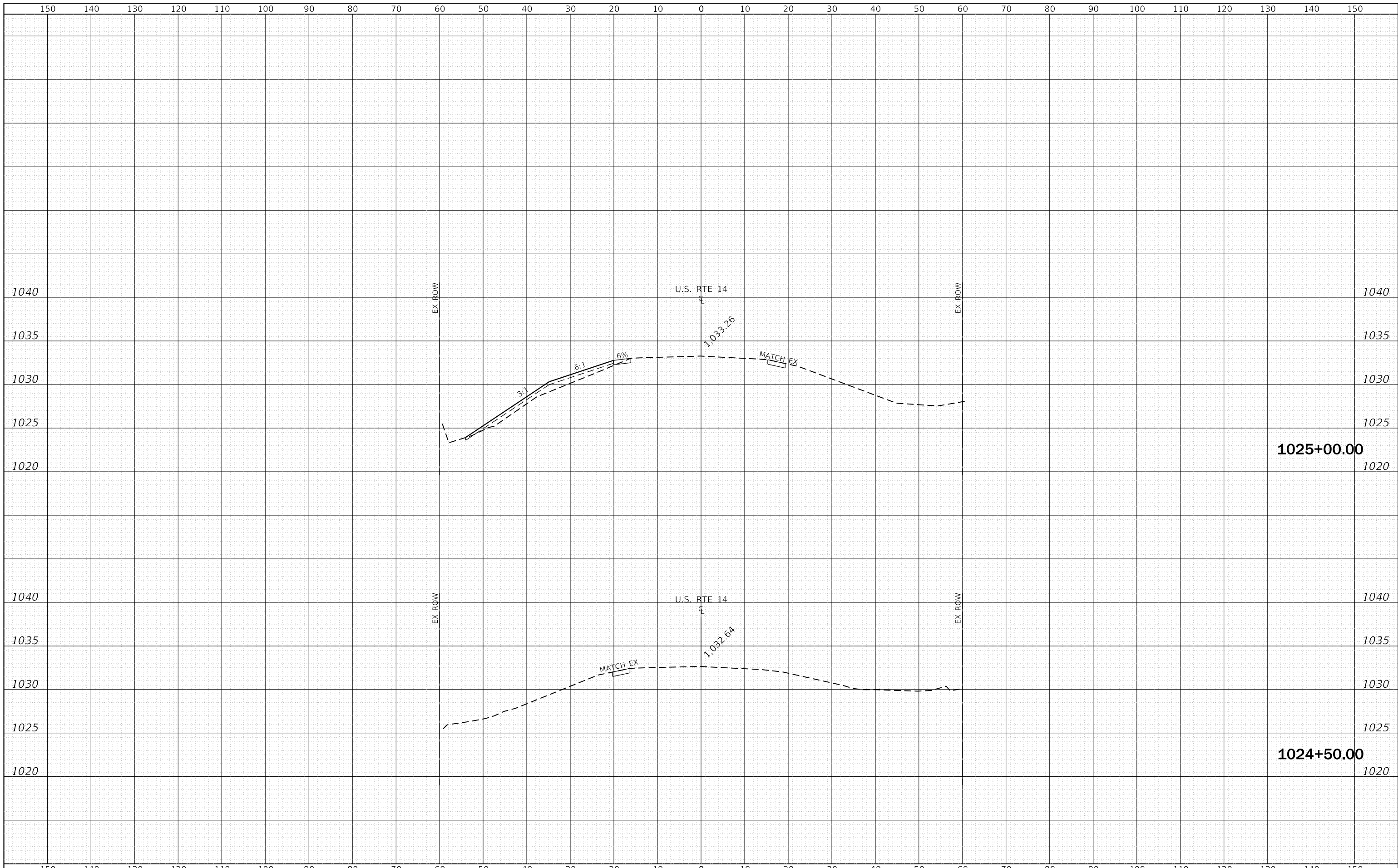
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PLOT DATE = 12/28/2017	DATE - 12/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CULVERT LINER DETAIL (S.N. 056-0269)
PROPOSED CROSS SECTIONS

SCALE: 1"=5' SHEET 6 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	2015-089B	MCHENRY	34	24
			CONTRACT NO. 62B94	
ILLINOIS FED. AID PROJECT				



LIN ENGINEERING, LTD.
 Consulting Engineers
 Westmont, Illinois

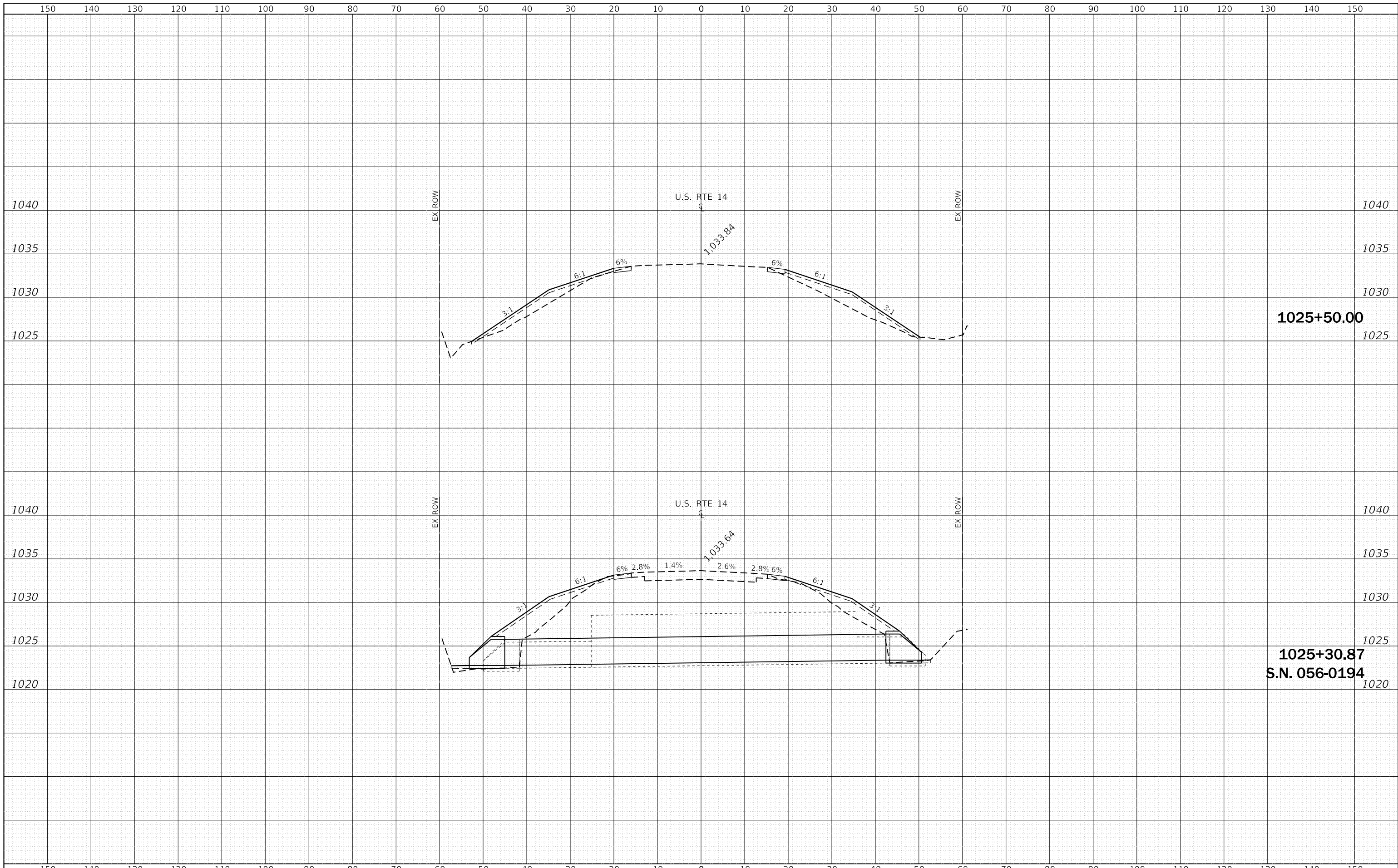
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	DATE - 12/2017	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**U.S. ROUTE 14 OVER UNNAMED DITCHES
 CROSS SECTIONS**

SCALE: 1"=10'H, 5'V SHEET 1 OF 8 SHEETS STA. 1024+50.00 TO STA. 1025+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	2015-089B	MCHENRY	34	25
			CONTRACT NO. 62B94	
ILLINOIS FED. AID PROJECT				



1025+50.00

1025+30.87
S.N. 056-0194

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Consulting Engineers
Westmont, Illinois

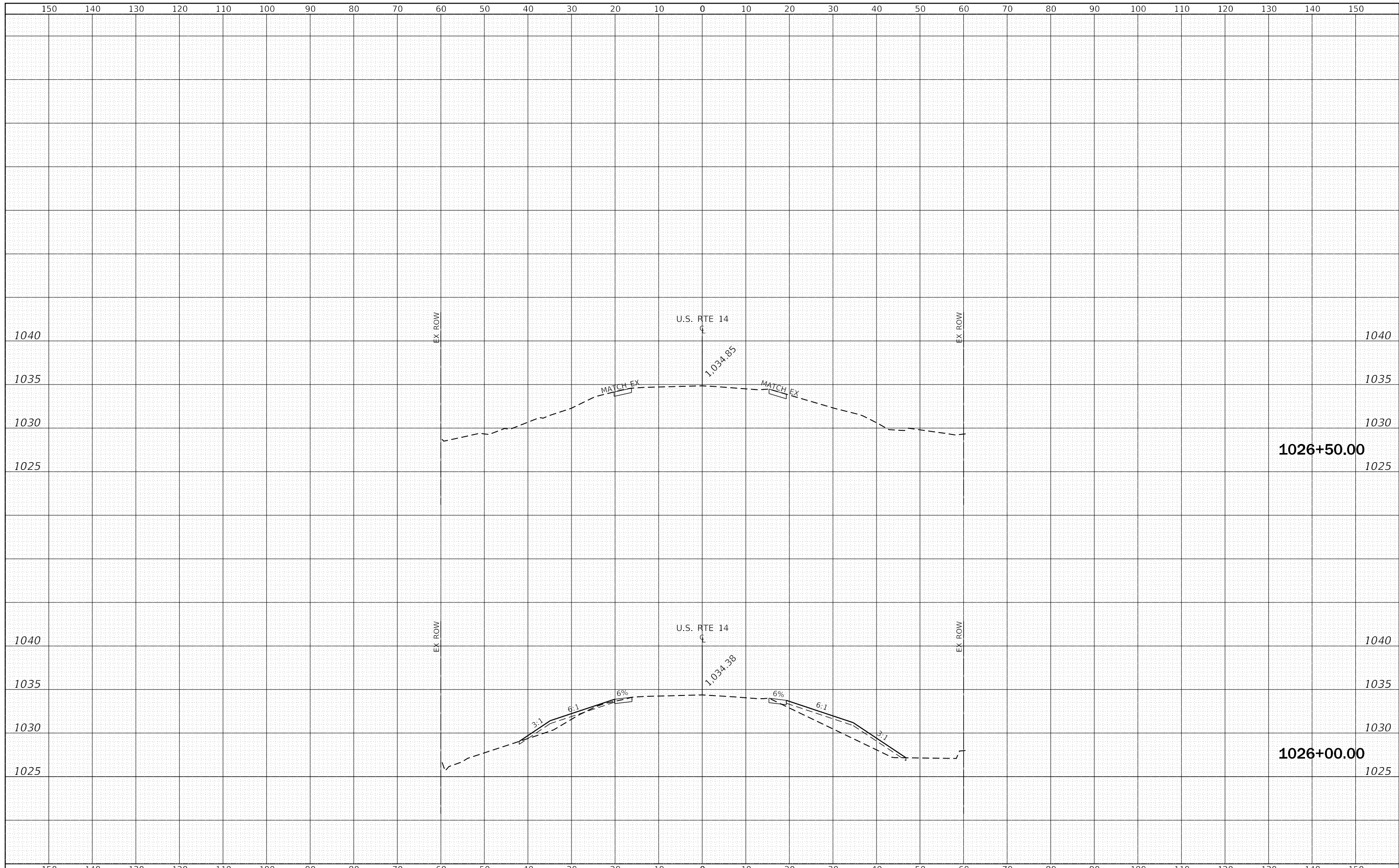
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PLOT DATE = 1/25/2018	CHECKED - ST	REVISED -
	DATE - 12/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**U.S. ROUTE 14 OVER UNNAMED
DITCHES
CROSS SECTIONS**

SCALE: 1"=10'H, 5'V SHEET 2 OF 8 SHEETS STA. 1025+30.87 TO STA. 1025+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	2015-089B	MCHENRY	34	26
			CONTRACT NO. 62B94	
ILLINOIS FED. AID PROJECT				



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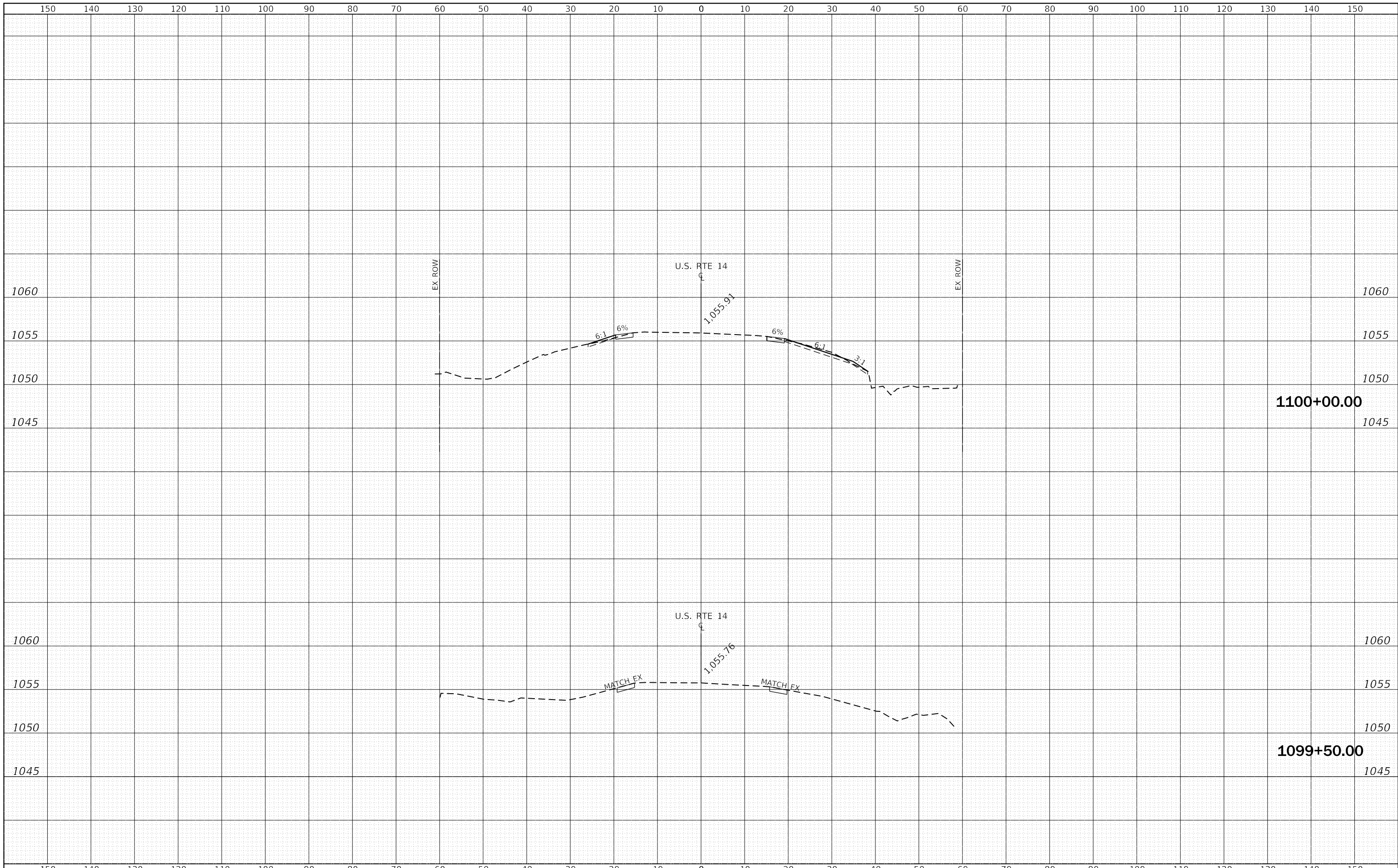
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	DRAWN - RC	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - ST	REVISED -
PLOT DATE = 12/28/2017	DATE - 12/2017	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**U.S. ROUTE 14 OVER UNNAMED
 DITCHES
 CROSS SECTIONS**

SCALE: 1"=10'H, 5'V SHEET 3 OF 8 SHEETS STA. 1026+00.00 TO STA. 1026+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	2015-089B	MCHENRY	34	27
			CONTRACT NO. 62B94	
ILLINOIS FED. AID PROJECT				



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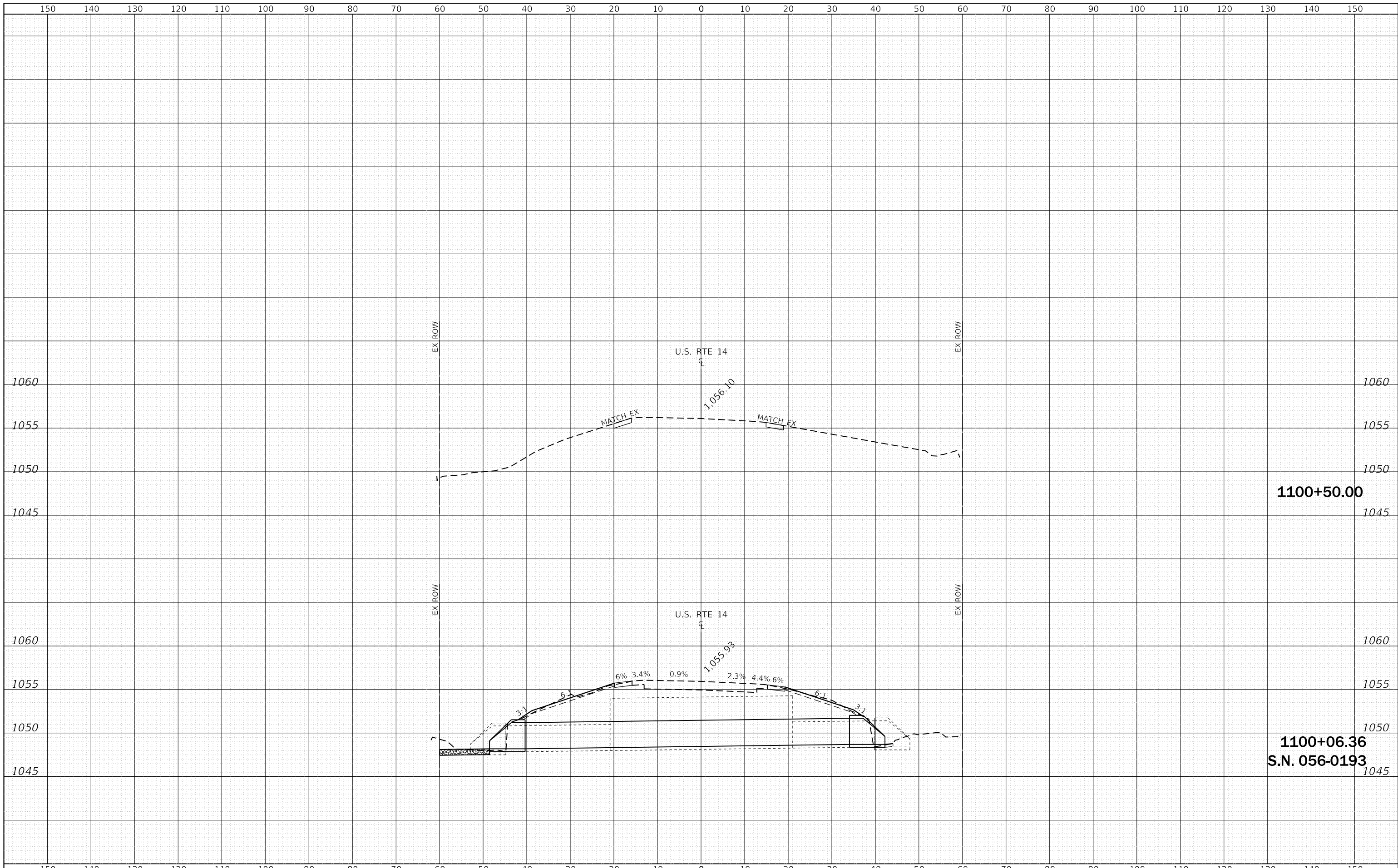
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PLOT SCALE = 20.0000' / in.	DRAWN - RC	REVISED -
PLOT DATE = 12/28/2017	CHECKED - ST	REVISED -
	DATE - 12/2017	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**U.S. ROUTE 14 OVER UNNAMED DITCHES
 CROSS SECTIONS**

SCALE: 1"=10'H, 5'V SHEET 4 OF 8 SHEETS STA. 1099+50.00 TO STA. 1100+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	2015-089B	MCHENRY	34	28
				CONTRACT NO. 62B94
ILLINOIS FED. AID PROJECT				



1100+50.00

1100+06.36
S.N. 056-0193

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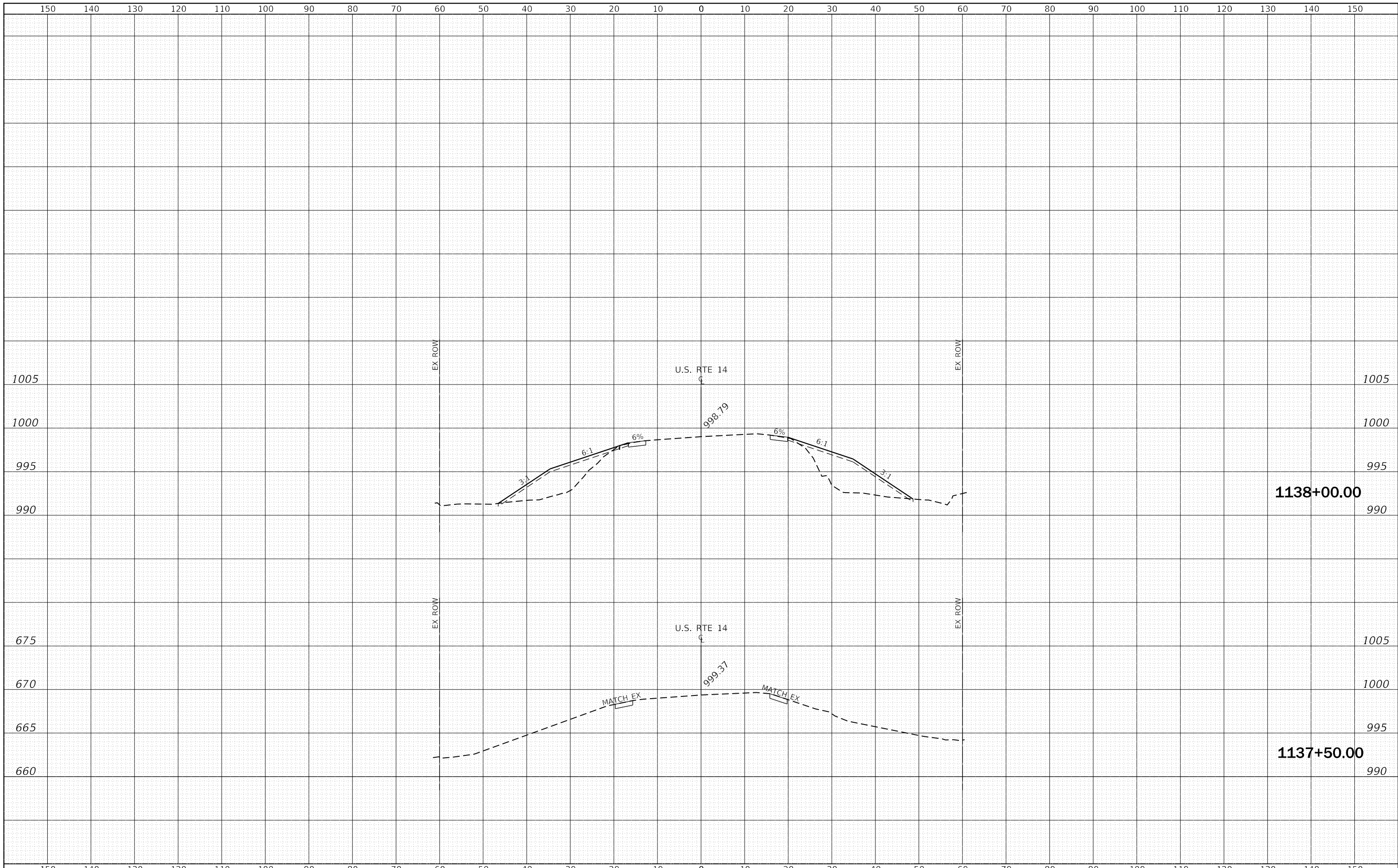
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PLOT SCALE = 20.0000' / in.	CHECKED - ST	REVISIED -
PLOT DATE = 12/28/2017	DATE - 12/2017	REVISIED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**U.S. ROUTE 14 OVER UNNAMED DITCHES
CROSS SECTIONS**

SCALE: 1"=10'H, 5'V SHEET 5 OF 8 SHEETS STA. 1100+06.36 TO STA. 1100+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	2015-089B	MCHENRY	34	29
			CONTRACT NO. 62B94	
ILLINOIS FED. AID PROJECT				



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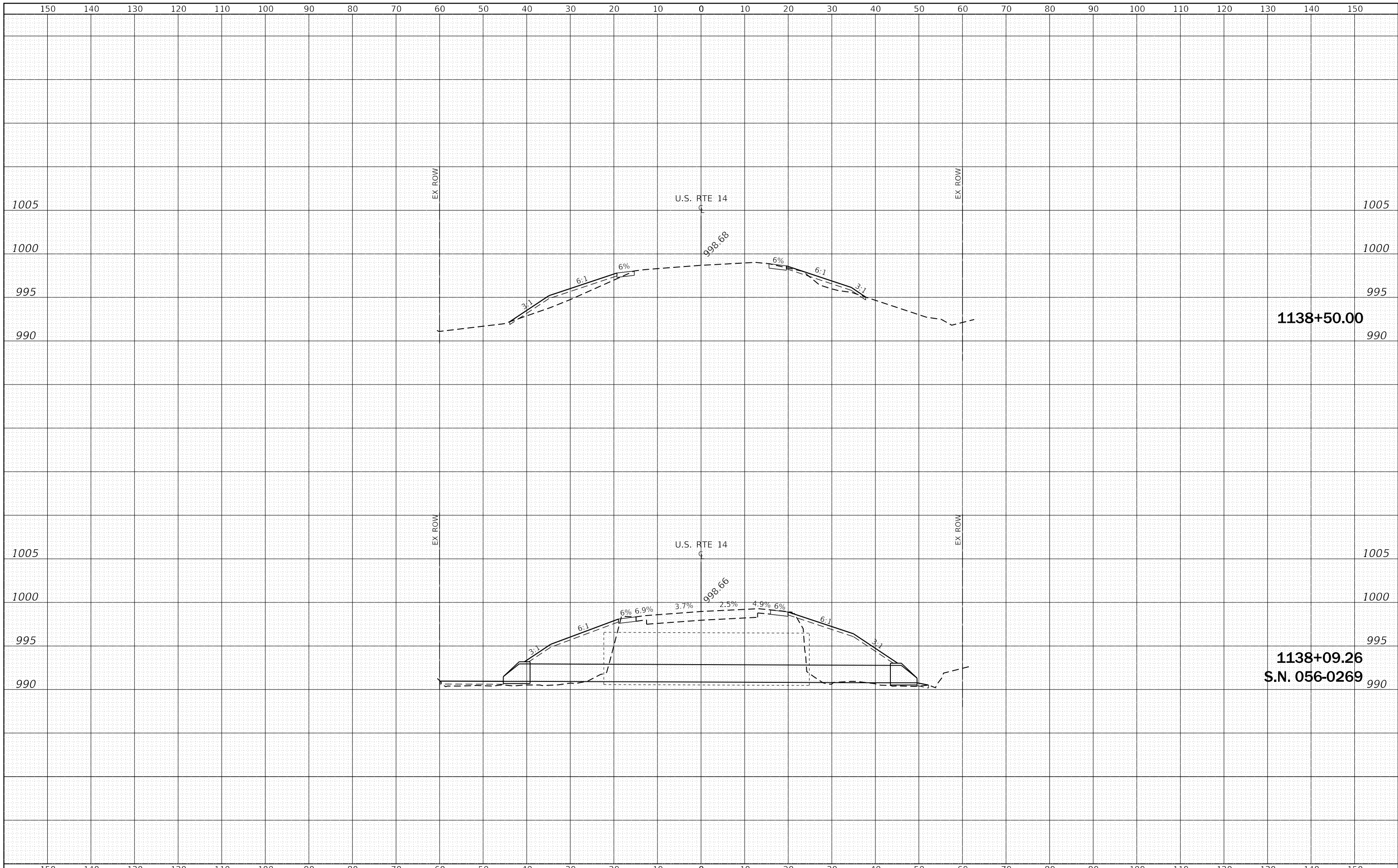
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PLOT SCALE = 20.0000' / in.	DRAWN - RC	REVISED -
PLOT DATE = 12/28/2017	CHECKED - ST	REVISED -
	DATE - 12/2017	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**U.S. ROUTE 14 OVER UNNAMED
 DITCHES
 CROSS SECTIONS**

SCALE: 1"=10'H, 5'V SHEET 6 OF 8 SHEETS STA. 1137+50.00 TO STA. 1138+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	2015-089B	MCHENRY	34	30
			CONTRACT NO. 62B94	
ILLINOIS FED. AID PROJECT				



1138+50.00

1138+09.26
S.N. 056-0269

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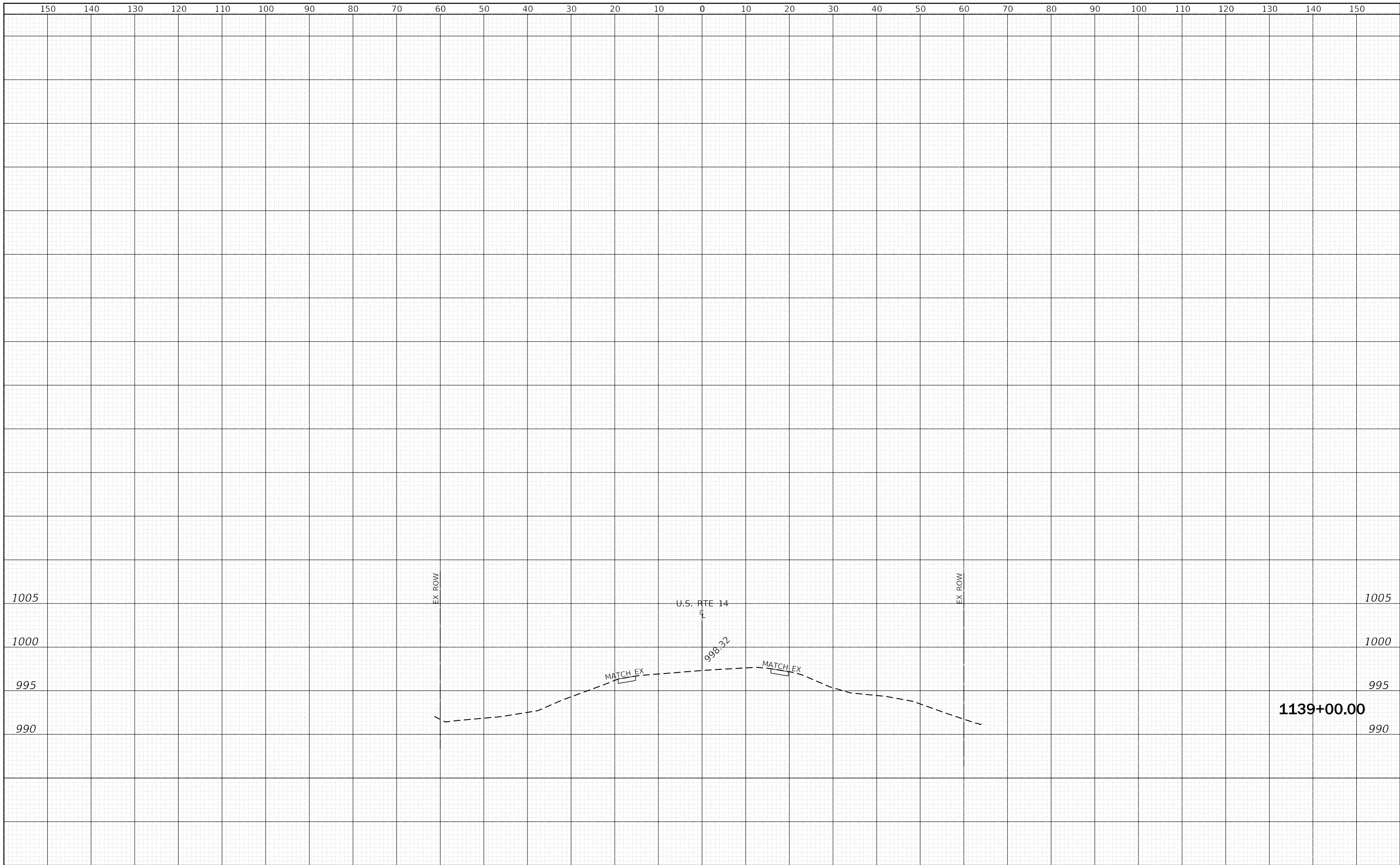
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	DRAWN - RC	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - ST	REVISED -
PLOT DATE = 12/28/2017	DATE - 12/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**U.S. ROUTE 14 OVER UNNAMED
DITCHES
CROSS SECTIONS**

SCALE: 1"=10'H, 5'V SHEET 7 OF 8 SHEETS STA. 1138+09.26 TO STA. 1138+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	2015-089B	MCHENRY	34	31
			CONTRACT NO. 62B94	
ILLINOIS FED. AID PROJECT				



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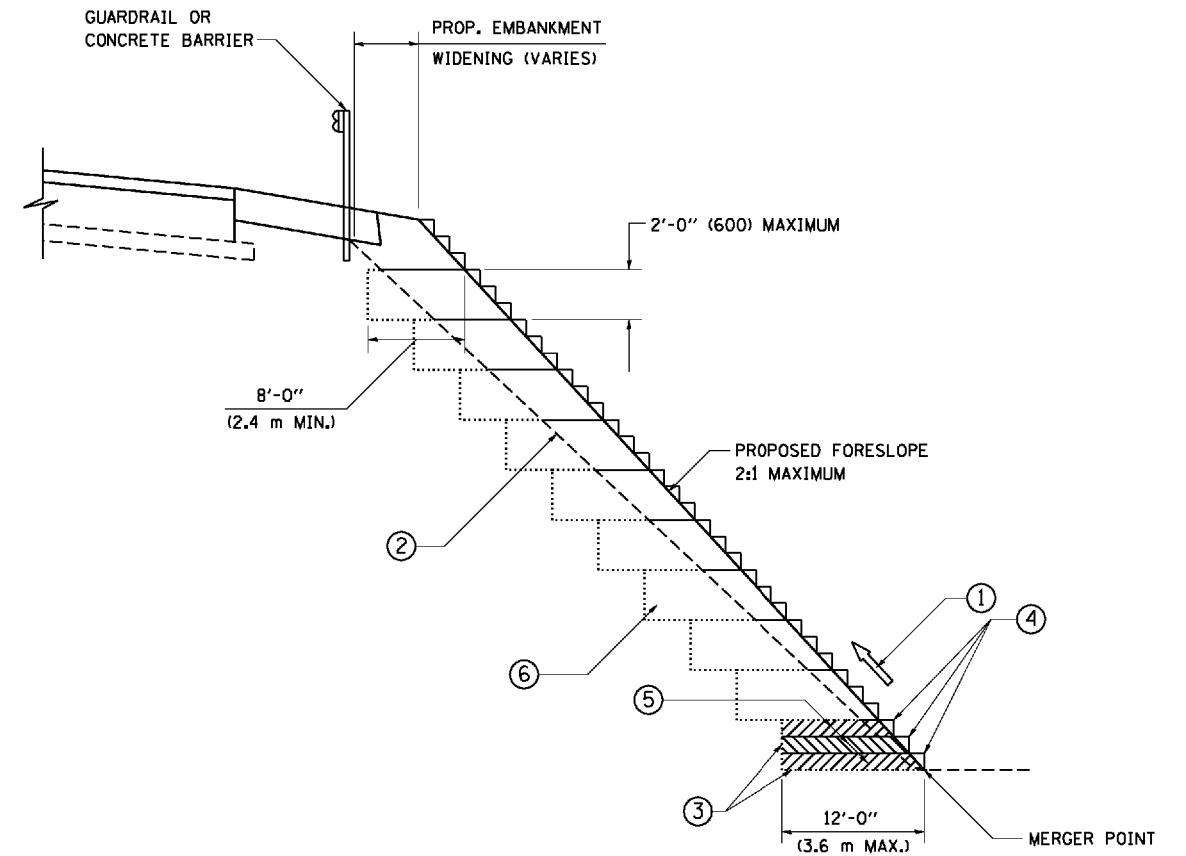
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PLOT DATE = 12/28/2017	DATE - 12/2017	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**U.S. ROUTE 14 OVER UNNAMED DITCHES
 CROSS SECTIONS**

SCALE: 1"=10'H, 5'V SHEET 8 OF 8 SHEETS STA. 1139+00.00 TO STA. 1139+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	2015-089B	MCHENRY	34	32
			CONTRACT NO. 62B94	
			ILLINOIS FED. AID PROJECT	



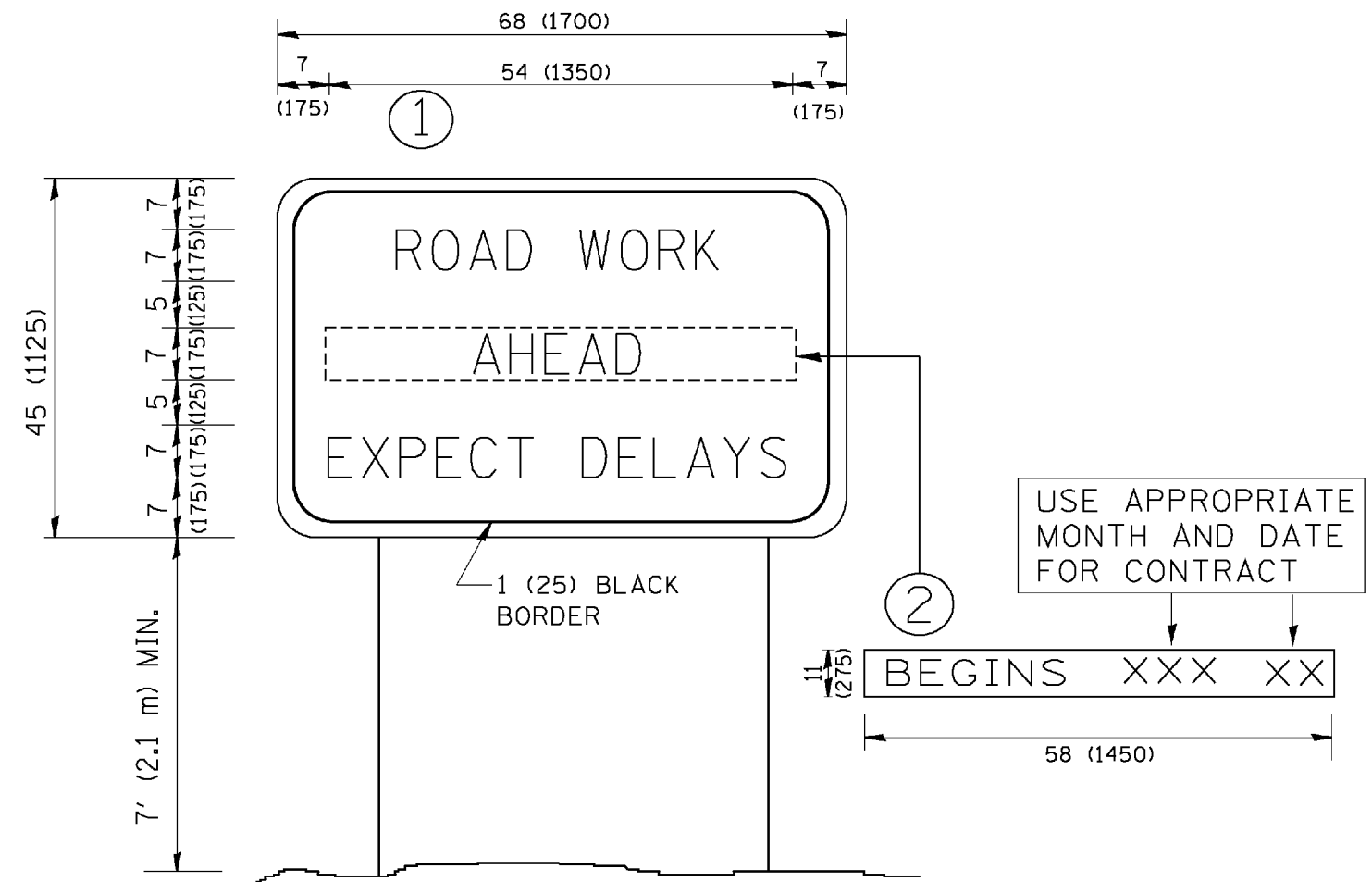
**TYPICAL BENCHING DETAIL
FOR EMBANKMENT**

NOTES:

- ① CONSTRUCT SUCCEEDING BENCH CUTS AND EMBANKMENT PLACEMENT AND COMPACTION FROM BOTTOM TO TOP IN STAIRSTEP FASHION.
- ② EXISTING FORESLOPE PREPARED IN ACCORDANCE WITH ARTICLE 205.03 OF THE STANDARD SPECIFICATIONS.
- ③ BENCH CUT EXISTING SLOPE TYPICAL FOR EACH STEP.
- ④ TRIM TO FINAL SLOPE.
- ⑤ EQUAL 8-INCH (200) LIFTS OF EMBANKMENT COMPACTED IN ACCORDANCE WITH ARTICLE 205.05 OF THE STANDARD SPECIFICATIONS.
- ⑥ EXCAVATION OF BENCH CUTS WITHIN EXISTING EMBANKMENT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC METER OR CUBIC YARD FOR "EARTH EXCAVATION". THIS PRICE WILL INCLUDE ALL LABOR AND MATERIAL, NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- ⑦ SLOPES SHALL BE BENCHED ACCORDING TO THIS DETAIL WHEN THE SLOPE IS STEEPER THAN 4:1 AND THE HEIGHT IS GREATER THAN 5' (1.5 m).

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)
UNLESS OTHERWISE SHOWN.

DESIGNED - DRAWN - CADD CHECKED - S.E.B DATE - 06-16-04 PLOT SCALE = 100,0000' / in. PLOT DATE = 12/28/2017	DESIGNED - DRAWN - CADD CHECKED - S.E.B DATE - 06-16-04	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BENCHING DETAIL FOR EMBANKMENT WIDENING		F.A.P. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.
	SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.	305 2015-089B MCHENRY 34 33 ILLINOIS FED. AID PROJECT				



NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

DESIGNED - DRAWN -	DESIGNED - R. MIRS 09-15-97	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ARTERIAL ROAD INFORMATION SIGN		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN - R. MIRS 12-11-97				305	2015-089B	MCHENRY	34	34
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISOR - T. RAMMACHER 02-02-99	SCALE: NONE		SHEET 1 OF 1 SHEETS		STA.	TO STA.	
PLOT DATE = 12/28/2017	DATE -	REVISOR - C. JUCIUS 01-31-07			TC-22		ILLINOIS FED. AID PROJECT CONTRACT NO. 62B94		