

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

FAP ROUTE 658 (IL 29)
SECTION (F) J, T

DRAIN PIPE REPAIR
MASON COUNTY

C-96-030-16

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
658	(F) J, T	MASON	10	1
		ILLINOIS	CONTRACT NO. 72117	

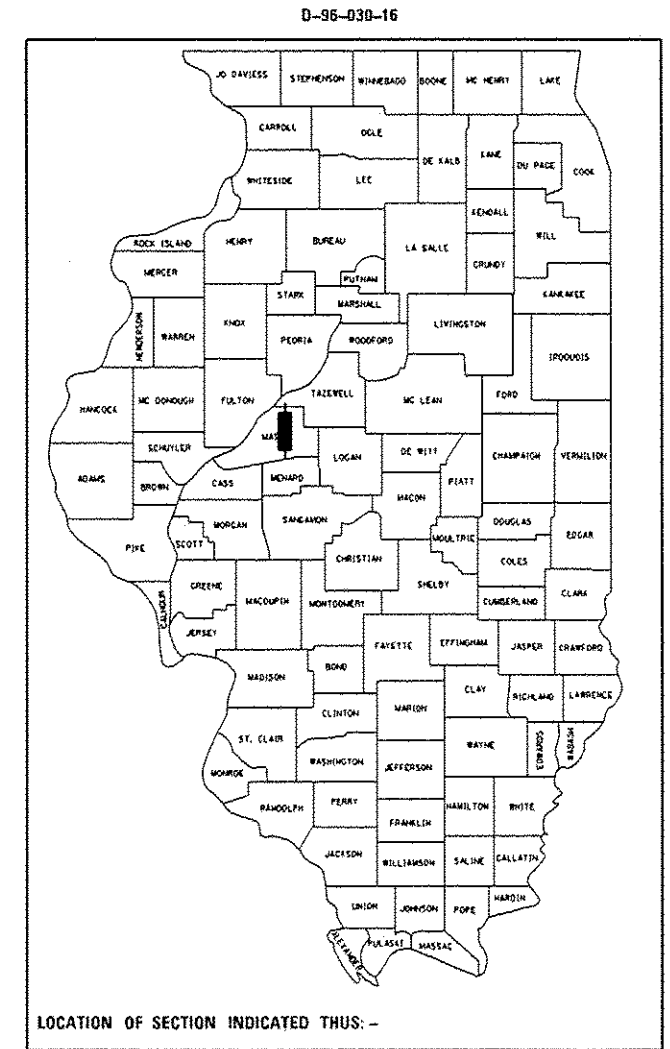
FOR INDEX OF SHEETS, SEE SHEET NO. 2

HIGHWAY CLASSIFICATION

F.A.P. Route 658 (IL 29)
(SLEEPY HOLLOW DITCH 1.3 MI. N. OF THE MENARD COUNTY LINE)

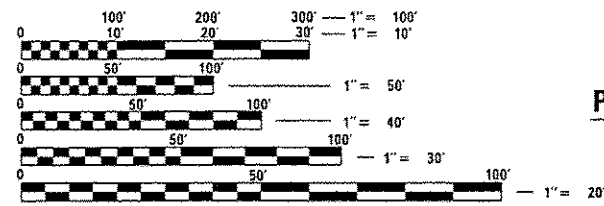
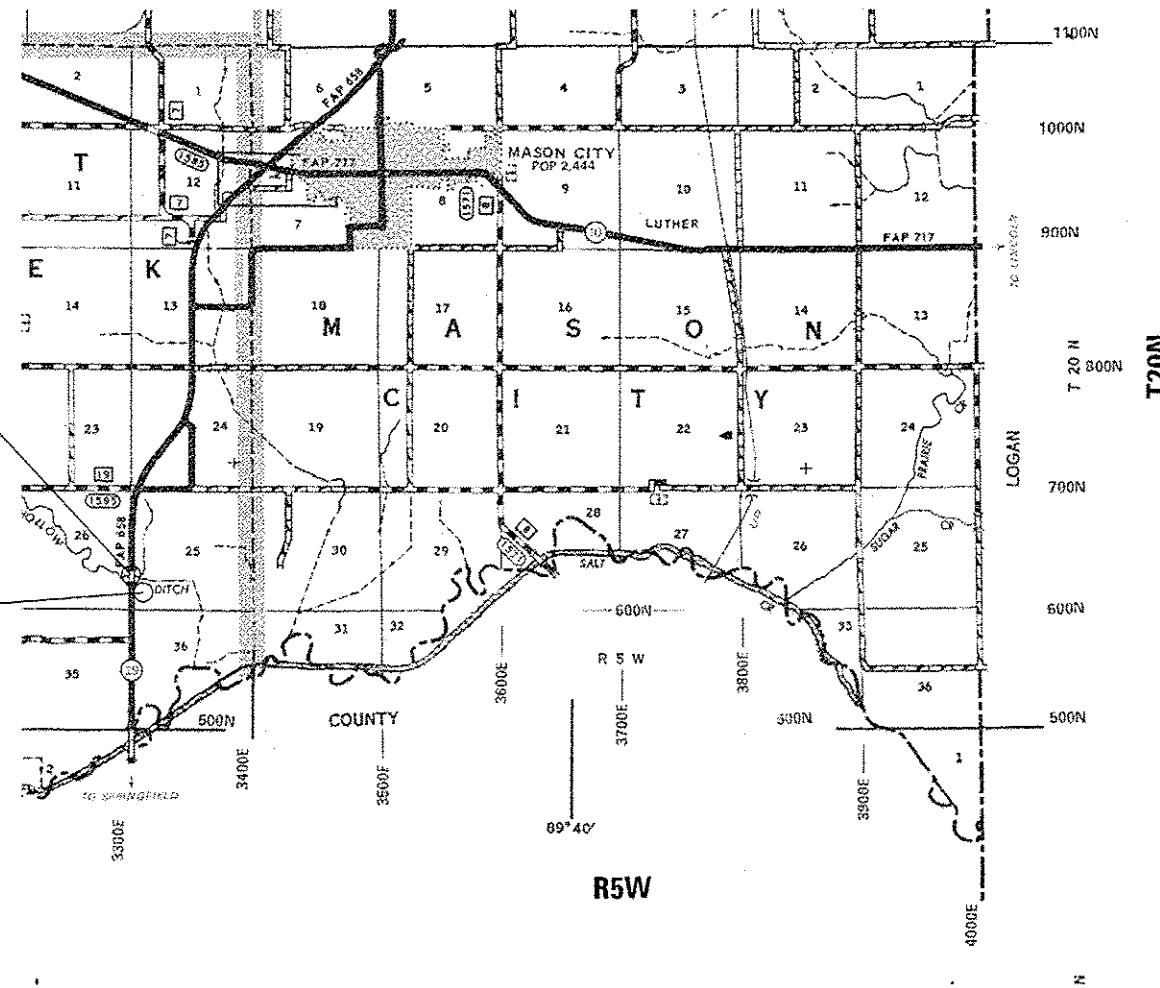
A.D.T. - 1,800 (2015) PV = 59.44%
PROJECTED A.D.T. - 2,200 (2035) SU = 29.17%
DESIGN SPEED - 60 mph MU = 11.39%
POSTED SPEED - 55 mph

CLASSIFICATION: MINOR ARTERIAL



SLEEPY HOLLOW DITCH
S.N. 063-0001
STA. 78 + 68.20

PROJECT LOCATION



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

TEAM ENGINEER: JAY EDWARDS (217) 785-0597
TEAM MANAGER: JONATHAN COX (217) 782-1378

GROSS LENGTH = 110' FT. = 0.02 MILE
NET LENGTH = 110' FT. = 0.02 MILE

CONTRACT NO. 72117

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED *March 24* 20 *16*

[Signature]
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

May 6 20 *16*
Matthew M. Addis, PE
ENGINEER OF DESIGN AND ENVIRONMENT

May 6 20 *16*
Ones Osman, PE
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS

GENERAL NOTES

- ① WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKS AND MONUMENTS UNTIL THE OWNER, AND AUTHORIZED SURVEYOR OR AGENT HAS WITNESSES OR OTHERWISE REFERENCED THEIR LOCATION.
- ② ANY REFERENCE TO A STANDARD IN THE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION, AS INDICATED BY THE SUB-NUMBER LISTED IN THE INDEX OF SHEETS, OR THE COPY OF THE STANDARD INCLUDED IN THE PLANS.
- ③ THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. THE JULIE NUMBER IS 800-892-0123. A MINIMUM OF FORTY-EIGHT HOURS ADVANCED NOTICE IS REQUIRED. ANY DAMAGE TO THE UNDERGROUND FACILITIES CAUSED BY THE CONTRACTOR SHALL BE REPAIRED TO THE SATISFACTION OF THE DEPARTMENT AT THE CONTRACTORS EXPENSE, INCLUDING TEMPORARY REPAIRS WHICH MAY BE REQUIRED TO KEEP THE FACILITY OPERATIONAL WHILE MATERIAL IS BEING OBTAINED TO MAKE PERMANENT REPAIRS.
- ④ THE LOCATIONS OF THOSE BURIED AND ABOVEGROUND UTILITIES SHOWN ARE APPROXIMATE, ARE SHOWN FOR CONTRACTOR INFORMATIONAL USE ONLY, AND ARE NOT TO BE REFERENCED FOR CONSTRUCTION PURPOSES. THE IMPLIED PRESENCE OR ABSENCE OF UTILITIES IS NOT TO BE CONSTRUED BY THE OWNER, ENGINEER, CONTRACTOR OR SUBCONTRACTORS TO BE AN ACCURATE AND COMPLETE REPRESENTATION OF UTILITIES THAT MAY OR MAY NOT EXIST ON THE CONSTRUCTION SITE. BURIED AND ABOVE GROUND UTILITY LOCATIONS, IDENTIFICATION, AND MARKING ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. REROUTING, DISCONNECTION, PROTECTION, ...ETC OF ANY UTILITIES MUST BE COORDINATED BETWEEN CONTRACTOR, UTILITY COMPANY, AND OWNER. SITE SAFETY, INCLUDING THE AVOIDANCE OF HAZARDOUS ASSOCIATED WITH BURIED AND ABOVE GROUND UTILITIES REMAIN THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- ⑤ IN ADDITION TO FIELD AND AERIAL SURVEYS, PLAN DIMENSIONS AND DETAILS RELATIVE TO THE EXISTING FACILITIES HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD. SUCH VARIATIONS SHALL NOT BE A CAUSE FOR ADDITIONAL COMPENSATION DUE TO A CHANGE IN THE SCOPE OF WORK. HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.
- ⑥ THE EXISTING ROAD SIGNS THAT INTERFERE WITH CONSTRUCTION SHALL BE RELOCATED AS DIRECTED BY THE ENGINEER. AFTER THE CONSTRUCTION IS COMPLETED, THE CONTRACTOR WILL REPLACE THE SIGNS AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- ⑦ EXISTING PAVEMENT DAMAGED DUE TO CONTRACTOR'S OPERATIONS, AND NOT OTHER WISE NECESSARY TO REPLACE, SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.
- ⑧ ANY EXCAVATION WITHIN THE CHANNEL OF SLEEPY HOLLOW CREEK SHALL BE INCLUDED IN THE COST FOR EARTH EXCAVATION AND WILL NOT BE MEASURED FOR PAYMENT.
- ⑨ ANY REMNANTS OF EXISTING 24" CMP LEFT AT BOTTOM OF SLEEPY HOLLOW CREEK SHALL BE REMOVED AND INCLUDED IN THE COST FOR PIPE CULVERT REMOVAL.
- ⑩ ALL SEEDING, MULCHING, FERTILIZER NUTRIENTS, & TREE REMOVAL FOR THIS PROJECT SHALL BE INCLUDED IN THE COST FOR EARTH EXCAVATION. TREE REMOVAL ON THE SOUTH SIDE OF SLEEPY HOLLOW DITCH SHALL BE LIMITED TO THE CONSTRUCTION LIMITS SHOWN ON THE PLANS TO PREVENT POSSIBLE SLOPE FALIURE OF THE EXISTING STEEP SLOPE. ~~ADDITIONAL TREE REMOVAL MUST BE APPROVED BY THE ENGINEER.~~ TREE REMOVAL ON THE NORTH SIDE OF SLEEPY HOLLOW DITCH MAY BE NEEDED TO ALLOW EQUIPMENT TO ACCESS THE LOWEST AREAS OF THE PROJECT.
- ⑪ NO GRAVEL SHALL BE ALLOWED FOR AGGREGATE SURFACE TYPE B.
- ⑫ PROP PIPE CULVERT CLASS D, TYPE 1 30" SHALL BE A CORRUGATED METAL PIPE.

INDEX OF SHEETS

- 1 COVER SHEET
- 2 INDEX OF SHEETS, LISTS OF STANDARDS, GENERAL NOTES AND COMMITMENTS
- 3 SUMMARY OF QUANTITIES
- 4 SCHEDULE OF QUANTITIES
- 5 PLAN & PROFILE SHEET
- 6 DRAINAGE DETAIL SHEET
- 7-10 CROSS-SECTION SHEETS (4)

STANDARDS

- 000001-06 STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
- 542401-02 METAL END SECTION FOR PIPE CULVERTS
- 701006-05 OFF ROAD OPERATIONS 2L, 2W 15' TO 24" FROM EDGE OF PAVEMENT *(PIPE CULVERT INSTALLATION)*
- 701301-04 LANE CLOSURE 2L, 2W SHORT TIME OPERATIONS (CLEANUP)
- 701901-05 TRAFFIC CONTROL DEVICES

THE ITALICIZED TEXT DESCRIBING STANDARDS ARE GENERAL USES FOR THE APPLICATION SPECIFIED AND NOT LIMITED TO THEM.

RATES OF APPLICATION TABLES

THE FOLLOWING RATES OF APPLICATION HAVE BEEN ASSUMED IN CALCULATING PLAN QUANTITIES.

BITUMINOUS MATERIALS (PRIME COAT):	0.05 LBS / SQ FT. (MILLING)
	0.025 LBS / SQ FT. (HMA LIFTS)
HMA SURFACE MIX C / BINDER (112 LBS):	0.056 TON / SQ YD ± in
AGGREGATE SHOULDERS:	1.90 TON / CU YD
NITROGEN FERTILIZER NUTRIENT:	90 LBS / ACRE
PHOSPHOROUS FERTILIZER NUTRIENT:	90 LBS / ACRE
POTASSIUM FERTILIZER NUTRIENT:	90 LBS / ACRE
AGRICULTURE GROUND LIMESTONE:	2 TON / ACRE
MULCH:	2 TONS / ACRE

COMMITMENTS

- ① THE RESIDENT ENGINEER SHALL CONTACT STUDIES AND PLANS CONCERNING ANY MAJOR PLAN CHANGE, TO MAKE SURE NO PREVIOUS COMMENTS (NOT LISTED) WERE MADE AFFECTING THE DESIGN AND ALLOW AN IMPROVED DESIGN FOR FUTURE PROJECTS.

DISTRICT SIX	
EXAMINED	March 15 th 20 16
<i>John C. Cunningham</i>	
OPERATIONS ENGINEER	

EXAMINED	March 18 20 16
<i>Ross Vanhambeek</i>	
PROJECT IMPLEMENTATION ENGINEER	

EXAMINED	March 22 20 16
<i>John P. Meyer</i>	
PROGRAM DEVELOPMENT ENGINEER	

0040

CONSTR. CODE

100% STATE

PIPE CULVERT

6-00991-0000

RURAL

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	
20200100	EARTH EXCAVATION	CU YD	162	162
28100105	STONE RIPRAP, CLASS A3	SQ YD	38	38
28100109	STONE RIPRAP, CLASS A5	SQ YD	210	210
28200200	FILTER FABRIC	SQ YD	248	248
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	4	4
50105220	PIPE CULVERT REMOVAL	FOOT	10	10
54200235	PIPE CULVERTS, CLASS D, TYPE 1 30"	FOOT	41	41
54215665	METAL END SECTIONS 30"	EACH	1	1
59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	7	7
63301210	REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL, TYPE A	FOOT	25	25
67100100	MOBILIZATION	LSUM	1	1
• Z0041500	PLUG EXISTING CULVERTS	EACH	1	1
• Z0065796	RIPRAP SLURRY	SQ YD	96	96

EARTH EXCAVATION

LOCATION	EARTH EXCAV (CU YD)	ADJUST SHRINKAGE 20% (CU YD)	EMBANKMENT (CU YD)	EARTHWORK BALANCE (CU YD)
FAP 658 (IL 29)				
10+48.55 TO 11+25.00	161.76	129.41	4.09	125.32
TOTAL =	162	129	5	125

DRAINAGE SCHEDULE

LOCATION	PIPE CULVT. REM (FOOT)	PIPE CULVT CL D T1 30" (FOOT)	METAL END SEC 30" (EACH)	CONTR LOW-STR MATL (CU YD)	PLUG EXISTING CULVERTS (EACH)
FAP 658 (IL 29)					
10+00.00 TO 10+10.00	10				
10+10.00 TO 10+70.00				7	1
10+00.00 TO 10+41.00		41			
10+41.00 TO 10+45.00			1		
TOTAL =	10	41	1	7	1

RIPRAP SCHEDULE

LOCATION	AREA (SQ FT)	STONE RIPRAP CL A3 (SQ YD)	STONE RIPRAP CL A5 (SQ YD)	FILTER FABRIC (SQ YD)	RIPRAP SLURRY (SQ YD)
FAP 658 (IL 29)					
10+45.00 TO 10+90.00	1472.01		163.56	163.56	79.60
Add 20% for 1:2 Slope					
10+90.00 TO 11+08.00	340.51	37.83		37.83	
11+08.00 TO 11+13.00	126.34		14.04	14.04	
TOTAL =		38	210	248	96

AGGREGATE SURFACE COURSE, TYPE B

LOCATION	AGG SURF CRSE TB (TON)
FAP 658 (IL 29)	
	Use 8" SC
12+00.00 TO 17+00.00	
Area= 69.87 Sq Ft. At Field Entrance	3.5
TOTAL =	4

REMOVE & REERECT STEEL
PLATE BEAM GUARDRAIL TYPE A

LOCATION	R&R SPBGR TY A (FOOT)
FAP 658 (IL 29)	
Guardrail Along Field Entrance	25.0
TOTAL =	25

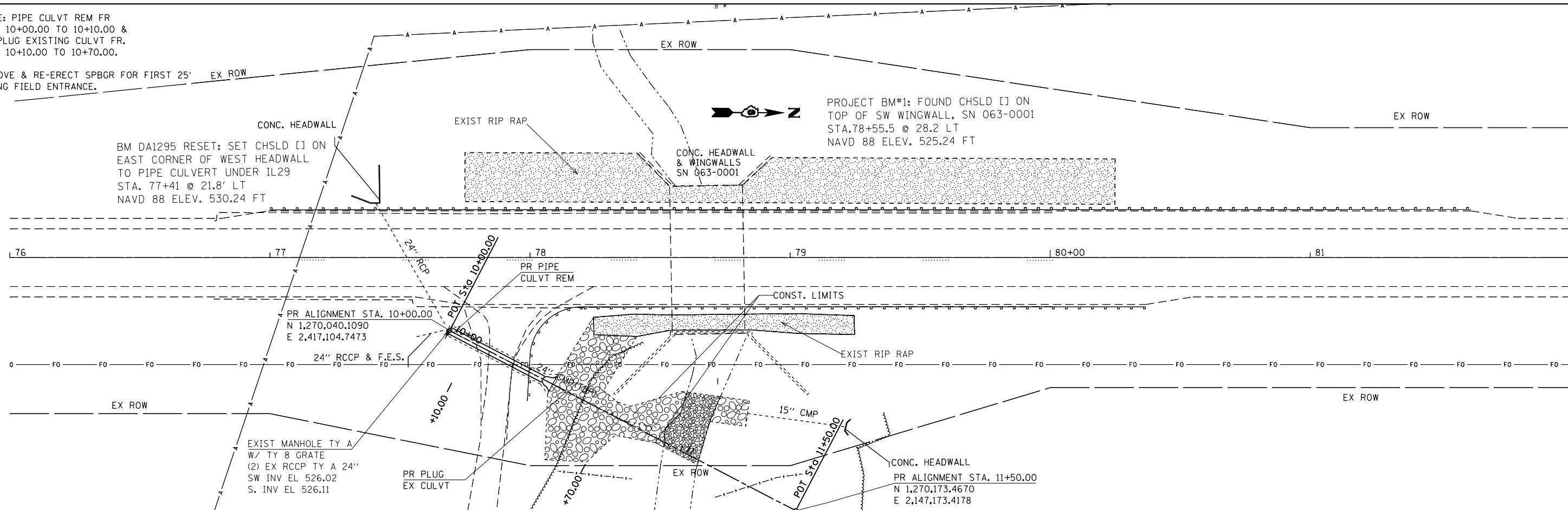
NOTE: PIPE CULVT REM FR
 STA. 10+00.00 TO 10+10.00 &
 PR PLUG EXISTING CULVT FR.
 STA. 10+10.00 TO 10+70.00.

REMOVE & RE-ERECT SPBGR FOR FIRST 25'
 ALONG FIELD ENTRANCE.

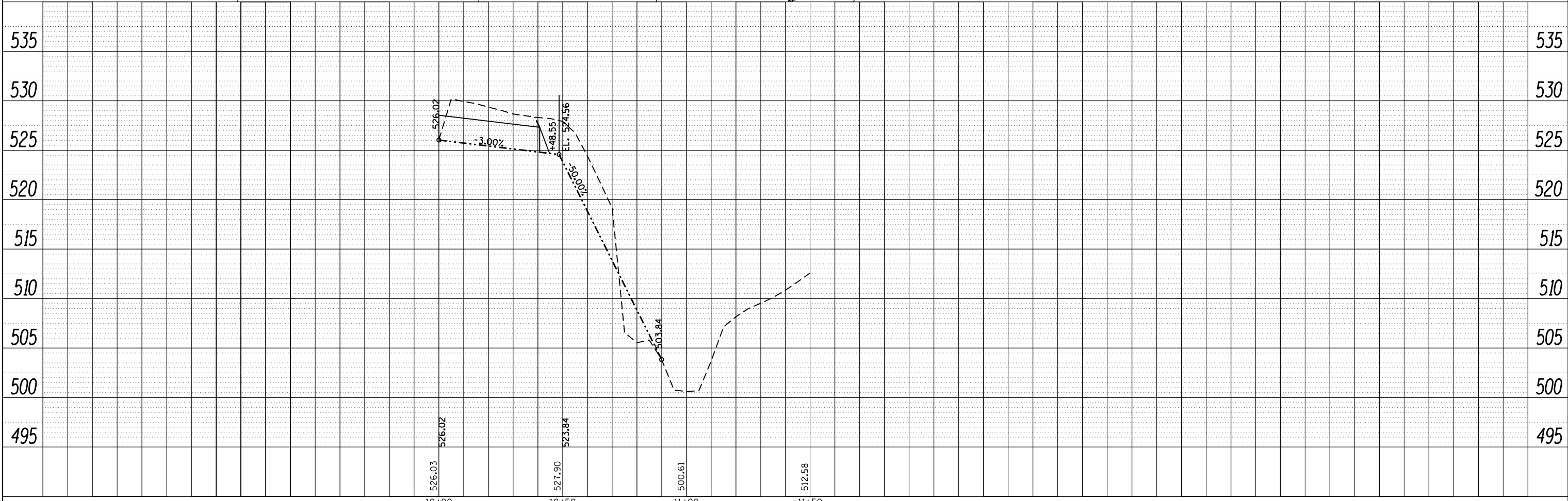
PROJECT BM#1: FOUND CHSLD [] ON
 TOP OF SW WINGWALL, SN 063-0001
 STA. 78+55.5 @ 28.2 LT
 NAVD 88 ELEV. 525.24 FT

BM DA1295 RESET: SET CHSLD [] ON
 EAST CORNER OF WEST HEADWALL
 TO PIPE CULVERT UNDER IL29
 STA. 77+41 @ 21.8' LT
 NAVD 88 ELEV. 530.24 FT

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	FILED	
	NO.	



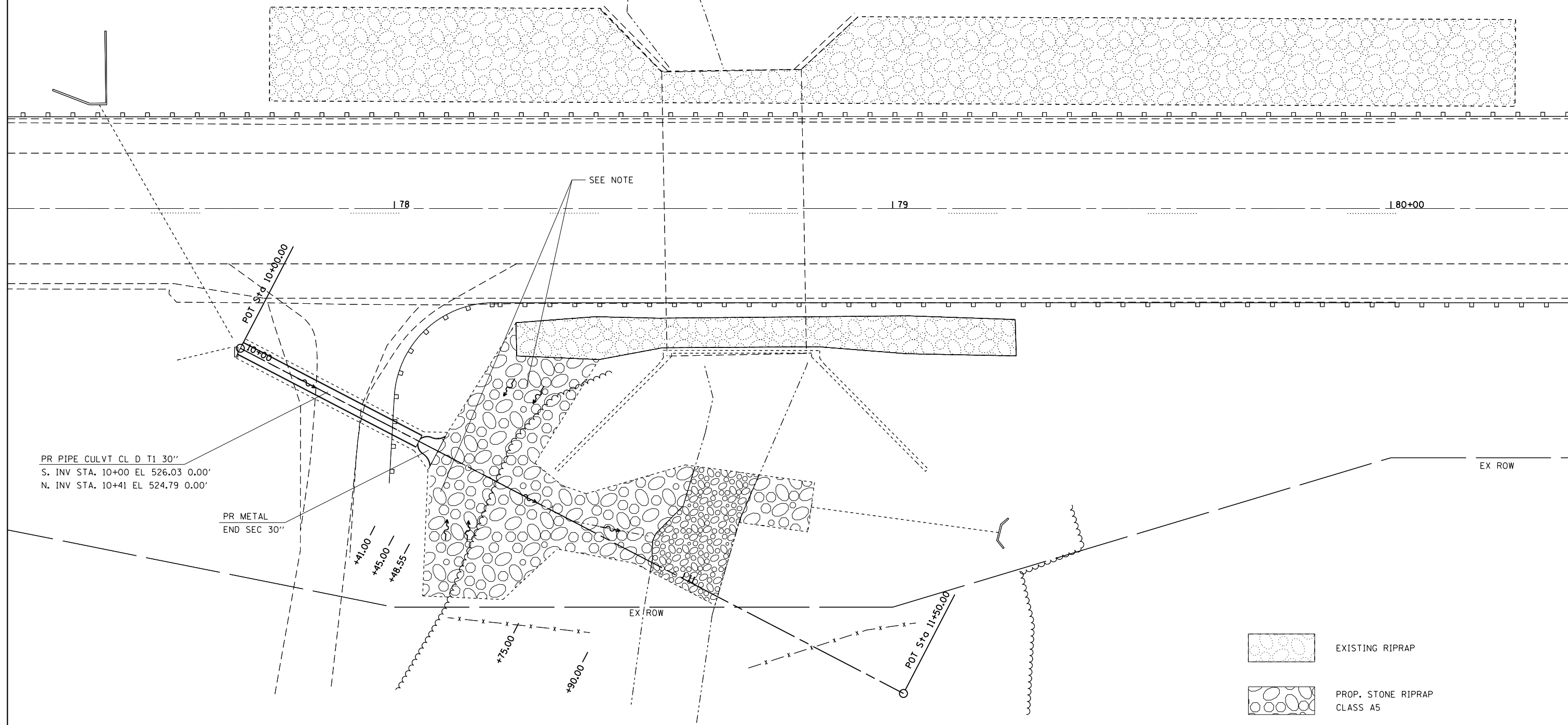
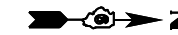
PROFILE	SURVEYED	DATE
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	GRADES	
	CHECKED	
	STRUCTURE	
	NOT AT THIS OFFICE	
	NO.	



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		CHECKED -	REVISED -			658	(F) J, T	MASON	10	5	
		DATE -	REVISED -			CONTRACT NO. 72117			ILLINOIS FED. AID PROJECT		
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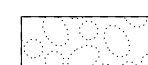


NOTE:
 AREA SHALL BE SLOPED TO DRAIN TO RIPRAP DITCH TO
 PREVENT WATER FROM SHEET FLOWING OFF THE PAVEMENT
 AND FLOWING DIRECTLY TO THE SLOPE OVER THE WINGWALL.

EX ROW



PR PIPE CULVT CL D T1 30"
 S. INV STA. 10+00 EL 526.03 0.00'
 N. INV STA. 10+41 EL 524.79 0.00'

PR METAL
 END SEC 30"

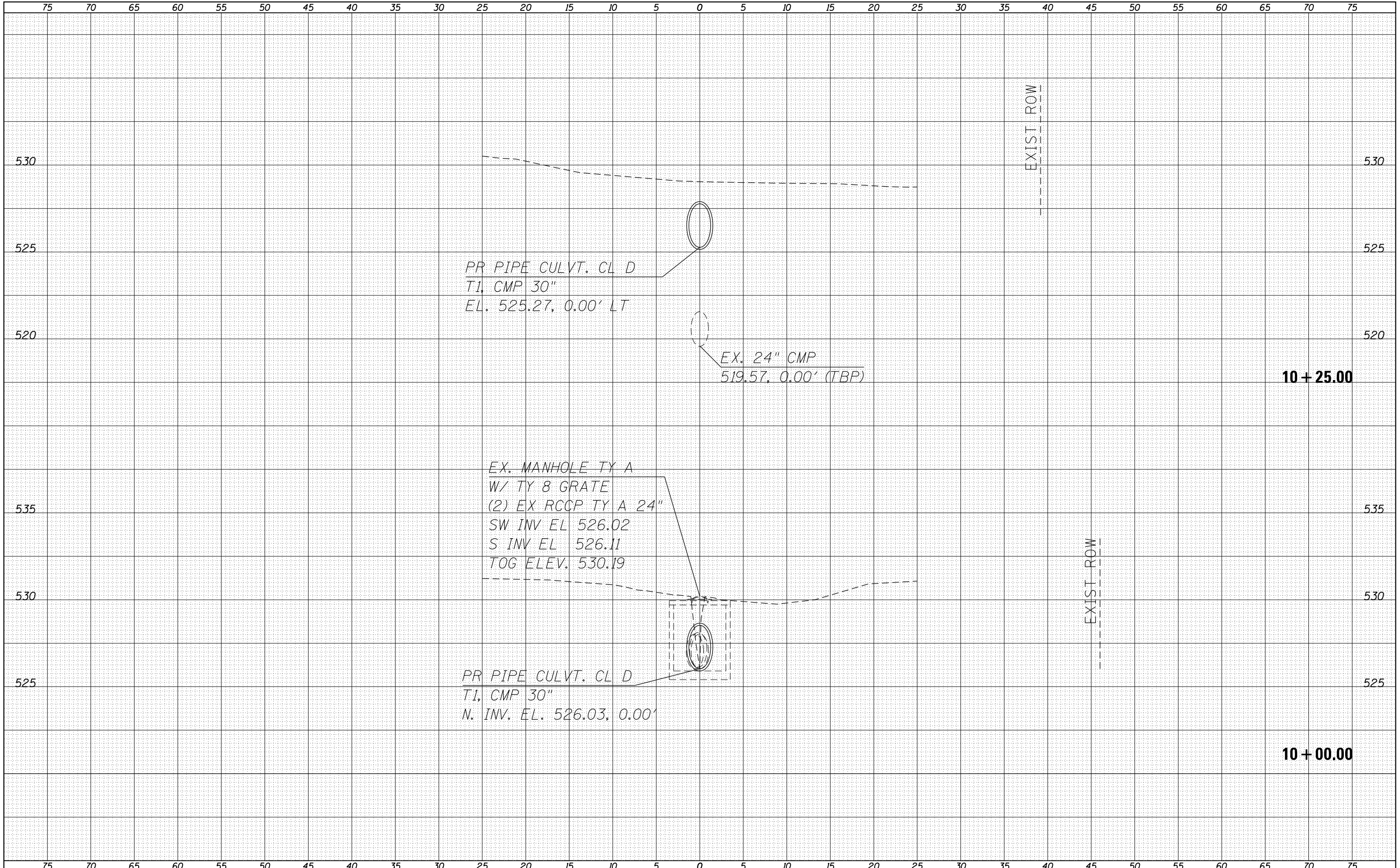
-  EXISTING RIPRAP
-  PROP. STONE RIPRAP CLASS A5
-  PROP. STONE RIPRAP CLASS A3 (IN STREAM)

FILE NAME =	USER NAME = Verenskifa	DESIGNED -	REVISED -
Default		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

DRAINAGE DETAIL SHEET			
SCALE:	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
658	(F) J, T	MASON	10	6
CONTRACT NO.			72117	
ILLINOIS FED. AID PROJECT				



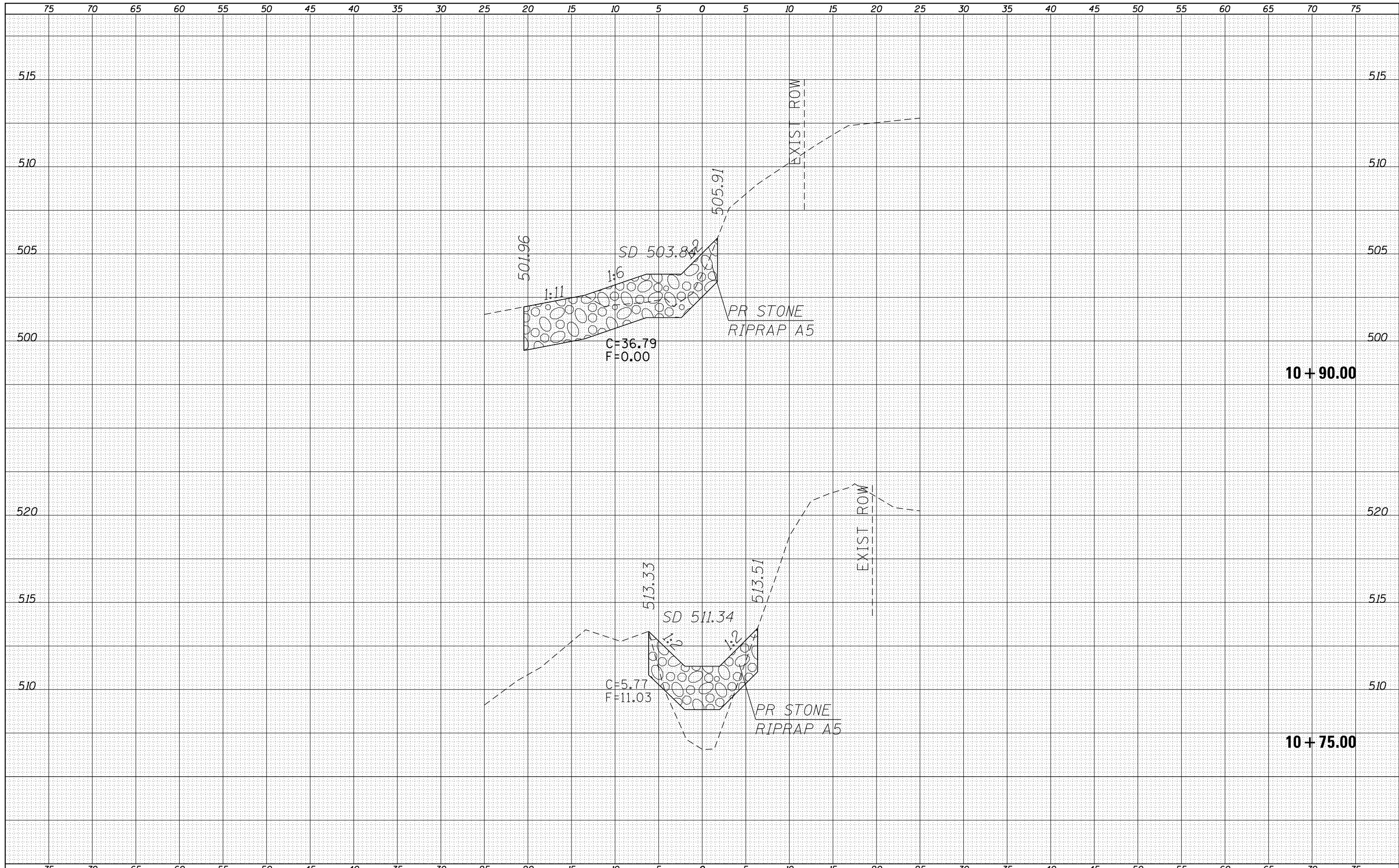
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SURVEYED	PLOTTED	DATE	BY
NO.			

DATE	BY	DATE	BY
ORIGINAL SURVEY	PLOTTED	DATE	BY
NO.			

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	PLOT SCALE = 10.0000 "/>					
	PLOT DATE = 3/24/2016					

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

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



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 DESIGNED - JWC
 CHECKED - JWC
 DATE - 3/24/2016

REVISIONS
 REVISION NO. | DATE | DESCRIPTION
 1 | | |
 2 | | |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

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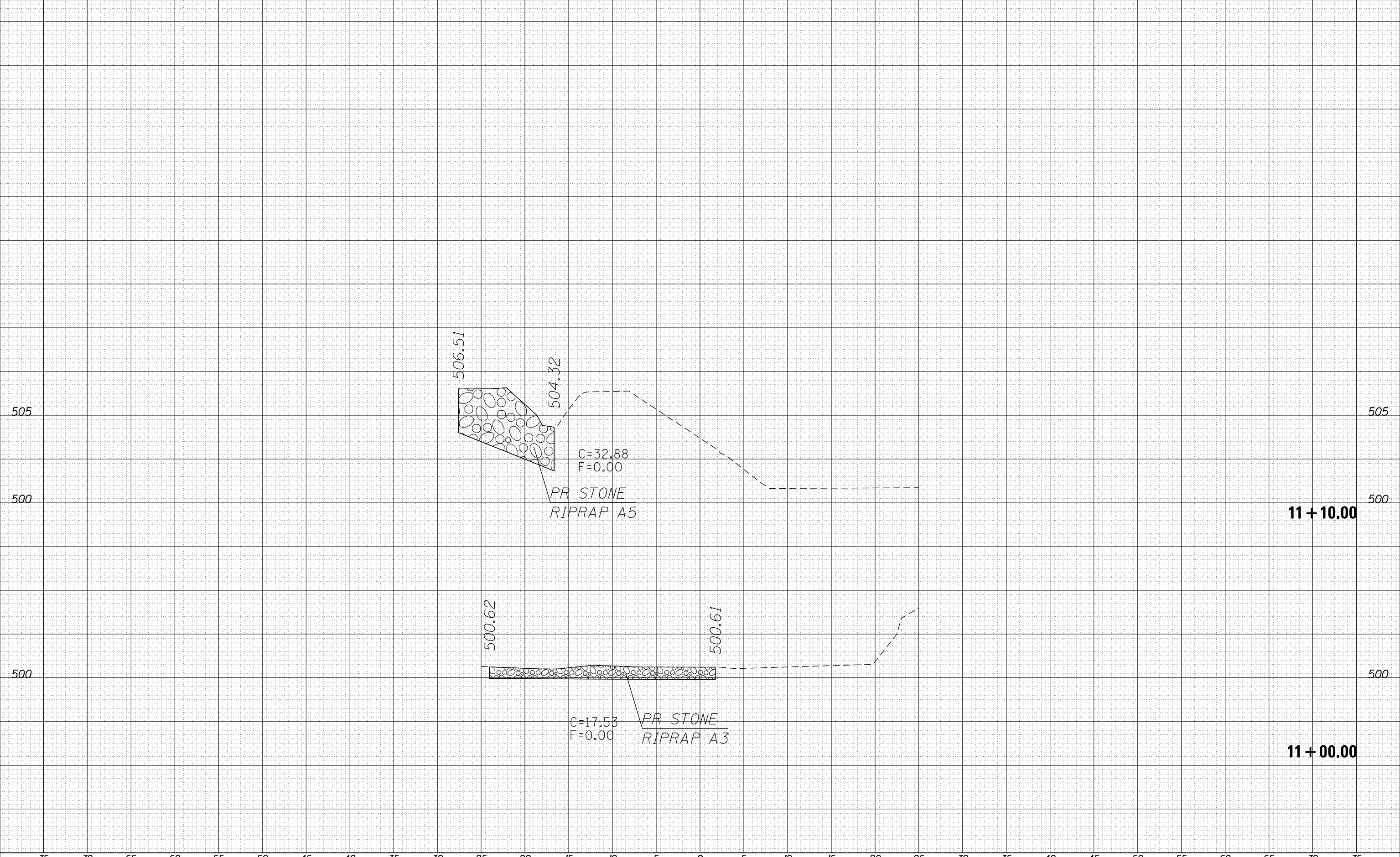
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
658	(F) J, T	MASON	10	9
CONTRACT NO.			72117	

ILLINOIS FED. AID PROJECT

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	DATE



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 PLOT SCALE = 10.0000 "/>

DESIGNED - JWC	REVISIONS
CHECKED - JWC	
DATE -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

SCALE: SHEET 4 OF 4 SHEETS STA. 11+00.00 TO STA. 11+10.00

F.A.P. RTE. 658	SECTION (F) J, T	COUNTY MASON	TOTAL SHEETS 10	SHEET NO. 10
CONTRACT NO. 72117				ILLINOIS FED. AID PROJECT