4-24-09 Letting, Item 135

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(13X)I-3	MACON	7	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 74342		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED
HIGHWAY PLANS

F.A.P. ROUTE 323 (U.S. ROUTE 36)
SECTION (13X)I–3

RCCP CULVERT INSTALLATION
MACON COUNTY
C–97–110–08

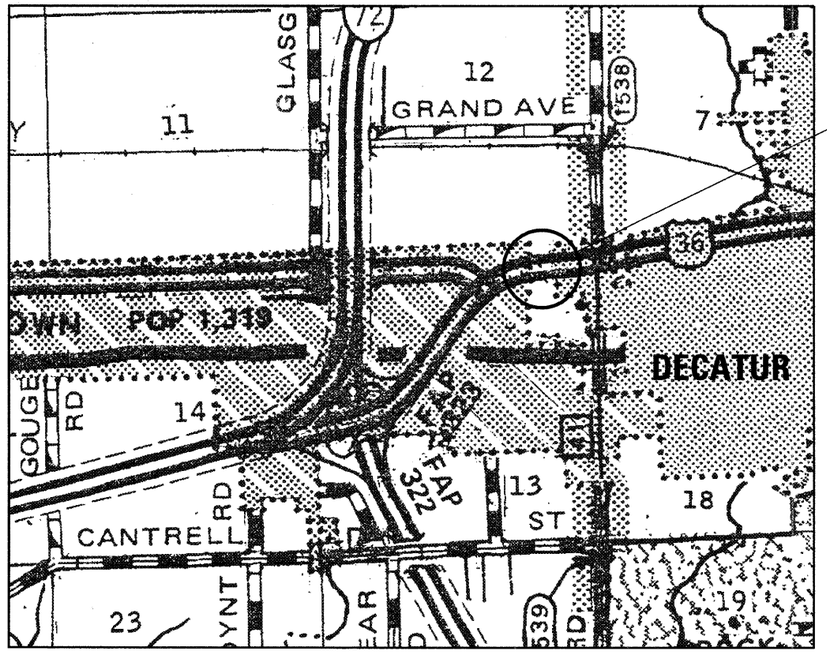
FOR INDEX OF SHEETS, SEE SHEET NO. 2

2007 ADT = 8500

D–97–058–08

LOCATION OF SECTION INDICATED THUS: –

N



F.A.P. ROUTE 323
SECTION (13X)I–3
MACON COUNTY
STATION 635 + 87

GROSS LENGTH = 100 FT. = 0.019 MILE
NET LENGTH = 100 FT. = 0.019 MILE

0 100' 200' 300' — 1" = 100'
0 10' 20' 30' — 1" = 10'
0 50' 100' — 1" = 50'
0 50' 100' — 1" = 40'
0 50' 100' — 1" = 30'
0 50' 100' — 1" = 20'

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: TOM RONAN

CONTRACT NO. 74342

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED February 3 20 09

Roger L. Dickell
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

March 27, 2009
Charles J. Ingersoll /D
ENGINEER OF DESIGN AND ENVIRONMENT

March 27, 2009
Christine M. Reed /D
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

GENERAL NOTES

THIS SECTION SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PLANS, THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", ADOPTED JANUARY 1, 2007; THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" INDICATED ON THE CHECK SHEET, AND THE SPECIAL PROVISIONS INCLUDED IN THE PROPOSAL.

THE WORK INCLUDED IN THIS SECTION CONSISTS OF JACKING A 48" PIPE CULVERT BENEATH U.S. ROUTE 36, REROUTING AN EXISTING FIELD TILE, GRADING AND SHAPING DITCHES, RIPRAP PLACEMENT, TRAFFIC CONTROL, AND ANY OTHER WORK NECESSARY TO COMPLETE THIS SECTION. THE PROPOSED PIPE WILL BE INSTALLED TO THE EAST OF AND PARALLEL TO THE TWO EXISTING PIPE CULVERTS BENEATH U.S. ROUTE 36 AND SHALL BE LOCATED AT APPROXIMATELY STATION 635+87.7. THE PROPOSED PIPE CULVERT SHALL BE PLACED SO THAT THE OUTSIDE OF THE WEST SIDE OF THE PROPOSED PIPE IS 5 FT FROM THE OUTSIDE OF THE EAST SIDE OF THE ORIGINAL 48" CMP.

THE PROPOSED PROJECT IS LOCATED ON U.S. ROUTE 36 IN MACON COUNTY, APPROXIMATELY 1300 FEET WEST OF WYCKLES ROAD.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING THE UTILITY COMPANIES LOCATE THEIR FACILITIES ON SITE PRIOR TO ANY CONSTRUCTION AND WILL BE HELD RESPONSIBLE FOR THE MAINTENANCE AND PRESERVATION OF THE FACILITIES. THE CONTRACTOR SHALL CALL J.U.L.I.E. AT 1-800-892-0123 FOR UTILITY LOCATIONS.

THE INVERT ELEVATIONS AND TOP OF LID ELEVATION FOR THE INLET LOCATED AT RT STA 635+64 WERE ESTIMATED USING AN EXISTING SURVEY AND PROPOSED CROSS SECTIONS FROM AN EXISTING SET OF AS-BUILT PLANS. THE CONTRACTOR WILL BE RESPONSIBLE FOR MAKING ADJUSTMENTS TO THE DRAINAGE STRUCTURE IN ORDER TO MATCH FIELD ELEVATIONS AND CONDITIONS. THIS WORK WILL BE INCLUDED IN THE CONTRACT UNIT PRICE PER EACH FOR INLETS, TYPE B, TYPE 1 FRAME CLOSED LID.

A PORTION OF THE EXISTING HEADWALLS WILL BE REMOVED TO MAKE ROOM FOR THE PROPOSED 48" PIPE TO BE JACKED INTO PLACE. THE PORTION OF THE EXISTING HEADWALL THAT WILL BE REMOVED WILL BE DETERMINED AS PER THE DETAILS SHOWN ON SHEET 5 OF THE PLANS OR AS DIRECTED BY THE ENGINEER. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC YARD FOR CONCRETE HEADWALL REMOVAL.

THE EXISTING 12" FIELD TILE THAT OUTLETS ON THE EAST SIDE OF THE SOUTH HEADWALL WILL BE REMOVED FROM THE SOUTH HEADWALL TO THE LOCATION OF THE PROPOSED INLET, TYPE B AS SHOWN ON SHEET 4 OF THE PLANS. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR EXISTING FIELD TILE REMOVAL.

ELEVATIONS ARE BASED OFF THE FOLLOWING BENCHMARKS:

BENCHMARK: A CHISELED SQUARE ON THE SOUTH SIDE OF THE TOP OF FOUNDATION OF IDOT LIGHT STANDARD LOCATED 0.1 MILES EAST OF THE CENTERLINE OF WYCKLES ROAD ON THE SOUTH SIDE OF ROUTE 36 R.O.W.
ELEVATION 671.77

TEMPORARY BENCHMARK # 1: A CHISELED SQUARE ON THE SOUTH HEADWALL OF DUAL CULVERTS UNDER US ROUTE 36 LOCATED APPROXIMATELY 1200 FEET WEST OF WYCKLES ROAD
ELEVATION: 660.62

TEMPORARY BENCHMARK # 2: A CHISELED SQUARE ON THE NORTH HEADWALL OF DUAL CULVERTS UNDER US ROUTE 36 LOCATED APPROXIMATELY 1200 FEET WEST OF WYCKLES ROAD
ELEVATION: 661.90

INDEX OF SHEETS

THE FOLLOWING STANDARDS ARE PART OF THESE PLANS AND ARE INCLUDED FOLLOWING SHEET NUMBER 7:

000001-05	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-04	TEMPORARY EROSION CONTROL SYSTEMS
542301-02	PRECAST REINFORCED CONCRETE FLARED END SECTION
602306-02	INLET • TYPE B
701101-02	OFF-ROAD OPERATIONS, MULTILANE, 15• TO 24• FROM PAVEMENT EDGE
701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15• AWAY
701421-02	LANE CLOSURE, MULTILANE, DAY ONLY, SPEEDS 45 MPH TO 55 MPH
701901-01	TRAFFIC CONTROL DEVICES

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES & INDEX OF SHEETS				F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -						323	(13X)I-3	MACON	7	2
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -								CONTRACT NO. 74342		
	PLOT DATE = $DATE$	DATE -	REVISED -		SCALE: NA	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES

CODE NO	ITEM	UNIT	TOTAL QUANTITIES (URBAN)	CONSTRUCTION TYPE CODE (100% STATE) YOO7
21400100	GRADING AND SHAPING DITCHES	FOOT	110	110
25001000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.2	0.2
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	20	20
28000300	TEMPORARY DITCH CHECKS	EACH	3	3
28000500	INLET AND PIPE PROTECTION	EACH	3	3
28100107	STONE RIPRAP, CLASS A4	SQ YD	124	124
28200200	FILTER FABRIC	SQ YD	124	124
50104300	CONCRETE HEADWALL REMOVAL	CU YD	1	1
54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	1	1
54213693	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 48"	EACH	2	2
542JA048	PIPE CULVERTS, CLASS A 48" (JACKED)	FOOT	172	172
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	34	34
60240215	INLETS, TYPE B, TYPE 1 FRAME, CLOSED LID	EACH	1	1
67100100	MOBILIZATION	L SUM	1	1
70100310	TRAFFIC CONTROL AND PROTECTION, STANDARD 701421	L SUM	1	1
X0324079	EXISTING FIELD TILE REMOVAL	FOOT	32	32

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		DRAWN -	REVISED -
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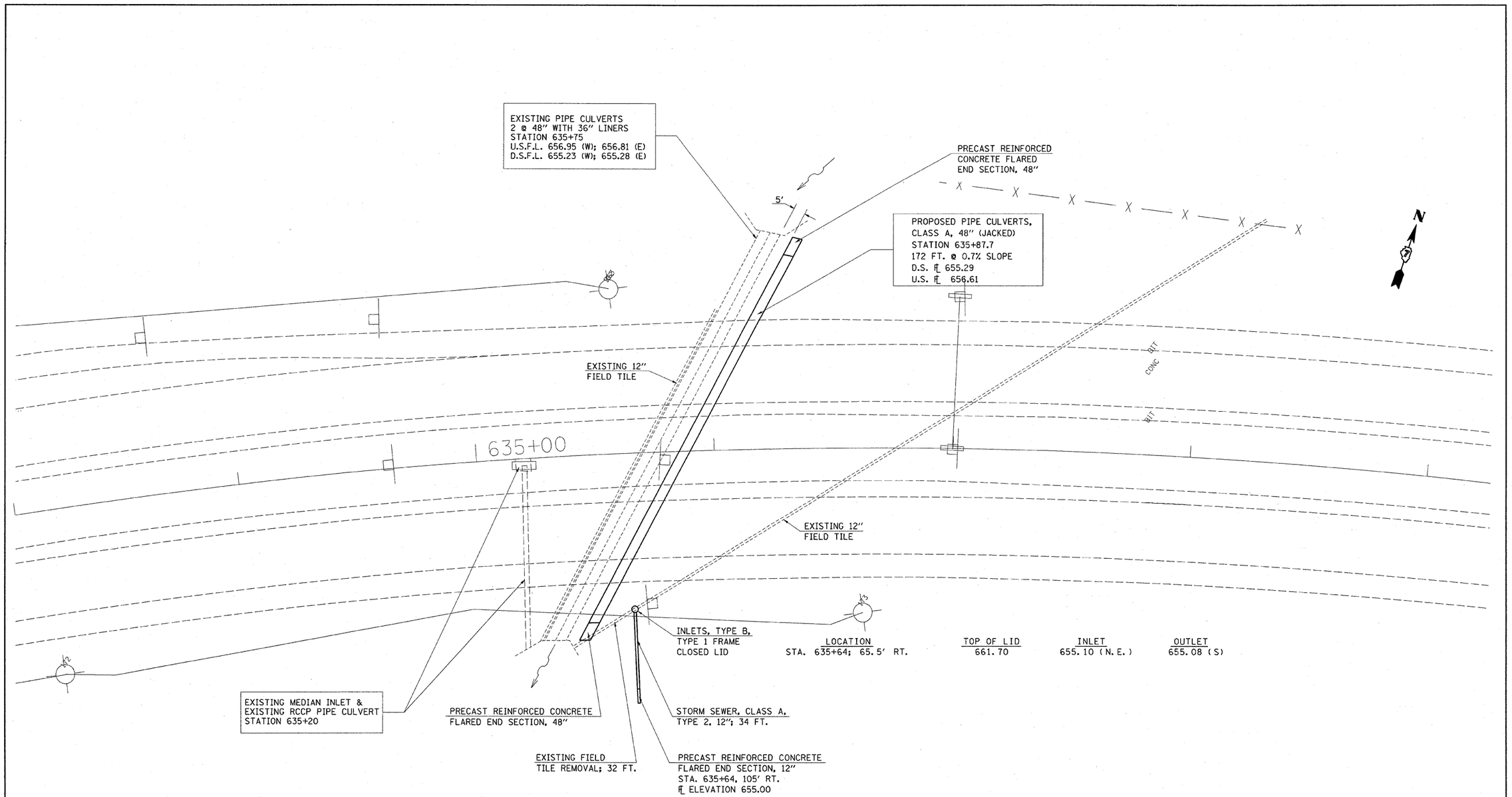
	PLOT DATE = $DATE$	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(13X)I-3	MACON	7	3
		CONTRACT NO. 74342		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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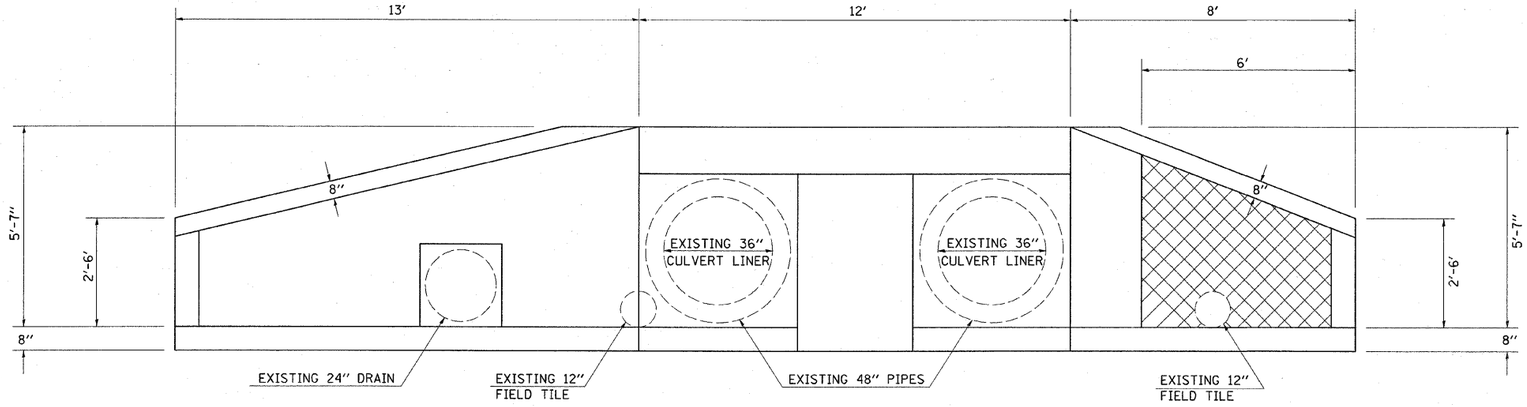
	PLOT DATE = 2/3/2009	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN & ELEVATION

SCALE: 20 | SHEET NO. 1 OF 1 SHEETS | STA. 633+00 | TO STA. 639+00

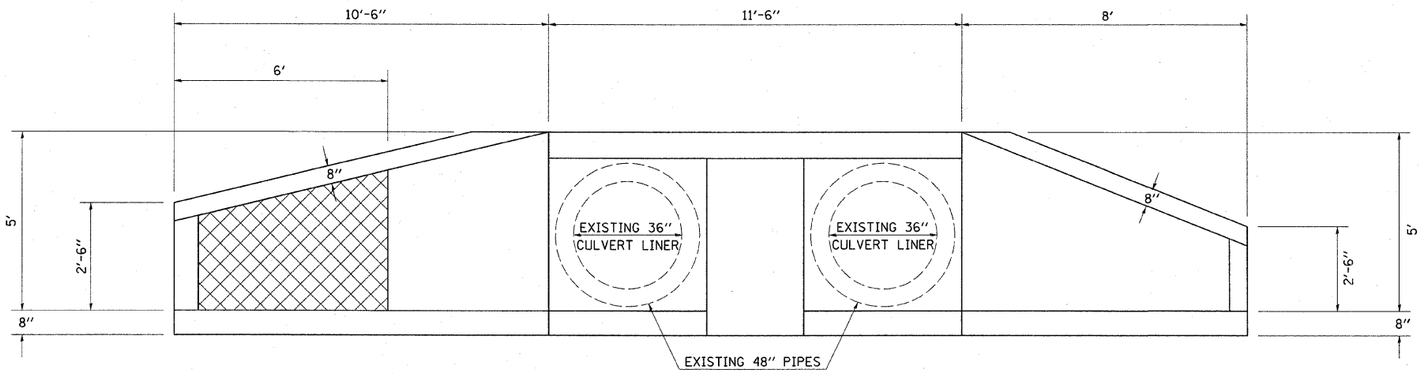
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(13X)I-3	MACON	7	4
		CONTRACT NO. 74342		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



SOUTH HEADWALL
(LOOKING NORTH)

CONCRETE HEADWALL REMOVAL

LOCATION	QUANTITY
SOUTH HEADWALL	0.5 CU. YD.
NORTH HEADWALL	0.5 CU. YD.
TOTAL =	1.0 CU. YD.



NORTH HEADWALL
(LOOKING SOUTH)

CONCRETE HEADWALL REMOVAL

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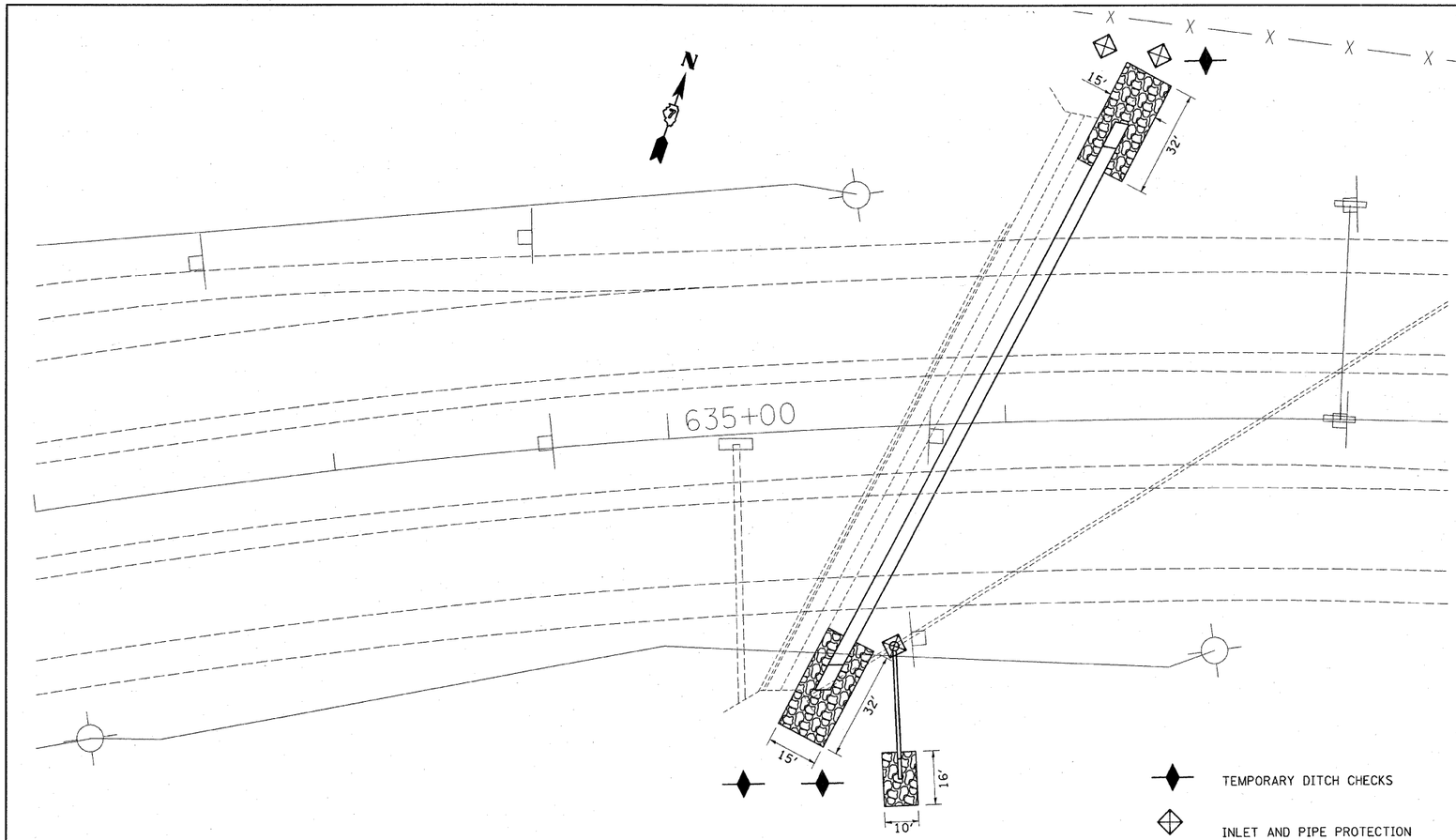
	PLOT DATE = 2/3/2009	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONCRETE HEADWALL REMOVAL DETAILS

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(13X)I-3	MACON	7	5
		CONTRACT NO. 74342		
		ILLINOIS FED. AID PROJECT		



SEEDING SCHEDULE		
TEMPORARY EROSION CONTROL SEEDING	20	POUND
SEEDING CLASS 2 (SPECIAL)	0.20	ACRES

INLET AND PIPE PROTECTION		
STATION LT 636+25	1	EACH
STATION LT 636+37	1	EACH
STATION RT 635+64	1	EACH
TOTAL	3	EACH

TEMPORARY DITCH CHECKS		
STATION LEFT 636+60	1	EACH
STATION RIGHT 635+25	1	EACH
STATION RIGHT 635+40	1	EACH
TOTAL	3	EACH

GRADING AND SHAPING DITCHES					
LEFT	636+40	TO	637+00	60	FEET
RIGHT	635+50	TO	636+00	50	FEET
			TOTAL	110	FEET

EROSION CONTROL GENERAL NOTES

EROSION CONTROL MEASURES AT THE START OF CONSTRUCTION:

1. THE AREAS OF EXCAVATION AND EMBANKMENT PLACEMENT SHALL BE MANAGED FOR THE PURPOSES OF CONTROLLING EROSION WITHIN THE IMPROVEMENT AREA, REDUCING WATER FLOW BY TEMPORARY DIVERSION, MINIMIZING SILTATION AT THE RIGHT-OF-WAY LINE, AND ESTABLISHING VEGETATIVE COVER WHICH WILL BECOME PERMANENT VEGETATION AND ACT AS AN EROSION CONTROL BARRIER. WORK AT THE START OF CONSTRUCTION SHALL CONSIST OF THE FOLLOWING:

   (a) AREAS OF EXISTING VEGETATION (WOODS AND GRASSLANDS) OUTSIDE THE PROPOSED CONSTRUCTION LIMITS SHALL BE IDENTIFIED FOR PRESERVING AND SHALL BE PROTECTED FROM MOWING, BRUSH CUTTING, TREE REMOVAL, AND OTHER ACTIVITIES THAT WOULD BE DETRIMENTAL TO THEIR MAINTENANCE AND DEVELOPMENT.

   (b) DEAD, DISEASED, OR UNSUITABLE VEGETATION WITHIN THE SITE SHALL BE REMOVED AS DIRECTED BY THE ENGINEER.

   (c) BARE AND SPARSELY VEGETATED GROUND IN HIGHLY ERODIBLE AREAS AS DETERMINED BY THE ENGINEER SHALL BE TEMPORARILY SEEDED AT THE START OF CONSTRUCTION WHEN NO CONSTRUCTION ACTIVITIES ARE EXPECTED WITHIN SEVEN CALENDAR DAYS.

EROSION CONTROL MEASURES DURING CONSTRUCTION:

1. DURING CONSTRUCTION, AREAS OUTSIDE THE CONSTRUCTION LIMITS AS OUTLINED PREVIOUSLY HEREIN SHALL BE PROTECTED FROM DAMAGING EFFECTS OF CONSTRUCTION. THE CONTRACTOR SHALL NOT USE THIS AREA FOR PARKING OF VEHICLES OR CONSTRUCTION EQUIPMENT, STORAGE OF MATERIALS, OR OTHER CONSTRUCTION RELATED ACTIVITIES.

   (a) WITHIN THE CONSTRUCTION ZONE, CRITICAL AREAS WHICH HAVE A HIGH FLOW OF WATER, AS DETERMINED BY THE ENGINEER, SHALL REMAIN UNDISTURBED UNTIL CONTINUOUS OPERATIONS CAN ENSURE TIMELY COMPLETION OF WORK IN THESE AREAS TO MINIMIZE SOIL EROSION.

   (b) EARTH STOCKPILES SHALL BE TEMPORARILY SEEDED IF THEY ARE TO REMAIN UNUSED FOR MORE THAN FOURTEEN CALENDAR DAYS.

EROSION CONTROL MEASURES AFTER FINAL GRADING:

1. EXCAVATION AND EMBANKMENT AREAS SHALL BE PERMANENTLY SEEDED WHEN FINAL GRADE. EROSION CONTROL BLANKET SHALL BE PLACED ON ALL DISTURBED AREAS.

   (a) TEMPORARY EROSION CONTROL SYSTEMS SHALL REMAIN IN PLACE WITH PROPER MAINTENANCE UNTIL PERMANENT EROSION CONTROL IS IN PLACE AND WORKING PROPERLY WITH ALL PROPOSED TURF AREAS SEEDED AND A PROPER STAND ESTABLISHED.

STONE RIPRAP, CLASS A4		
Station		
RT 635+40	53	SQ YD
LT 636+35	53	SQ YD
RT 635+64	18	SQ YD
TOTAL	124	SQ YD

FILTER FABRIC		
Station		
RT 635+40	53	SQ YD
LT 636+35	53	SQ YD
RT 635+64	18	SQ YD
TOTAL	124	SQ YD

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	PLOT DATE = 2/3/2009	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL

SCALE: 20 | SHEET NO. 1 OF 1 SHEETS | STA. 633+00 | TO STA. 639+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(13X)I-1	MACON	7	6
		CONTRACT NO. 74342		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

BORING LOGS
SECTION (13X)I-3
PIPE CULVERT, EAST OF HARRISTOWN BLVD.

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

Date 6/1608

ROUTE FAP 36 (US 36) DESCRIPTION Pipe Culvert, East of Harristown Blvd LOGGED BY E. Sandschafer

SECTION (13X)I-3 LOCATION NE 1/4, SEC. 13, TWP. 16 N, RNG. 1 E, 3 PM

COUNTY Macon DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. N/A
Station 058-pipeculv

BORING NO. 1
Station 635+21
Offset 52.00ft Rt
Ground Surface Elev. 662.91 ft

Surface Water Elev. 654.99 ft
Stream Bed Elev. 654.89 ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After ____ Hrs. Backfilled ft

DEPTH (ft)	BLOWS (/6")	UCS (tsf)	MOIST (%)
662.41			
6" shoulder mixture of crushed aggregate and clay.			
Very stiff to medium, damp, dark gray, CLAY.	3		
	4 7	2.9 B	20
-5	4		
	5 7	2.2 B	23
	2		
	3 4	1.3 B	29
-10	2		
	2 4	0.6 B	21
	2		
	6 7	2.4 B	14
648.41			
Very stiff, damp, gray, CLAY LOAM TILL. -15	8		
	8 12	4.0 B	11
	5		
	8 12	2.9 B	11
-20	5		
Very stiff, damp, gray, CLAY LOAM TILL. (continued) 641.91		7 11	2.6 B	11
Extent of exploration. -25				
Benchmark: BM 53 chiseled square on West end of South existing pipe culvert headwall, Sta 635+55 = 660.37' elevation. -30				
-35				
-40				

Latitude W 89 deg 42.655 min, Longitude N 39 deg 39.773 min, Map Datum WGS 84

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

Date 6/1608

ROUTE FAP 36 (US 36) DESCRIPTION Pipe Culvert, East of Harristown Blvd LOGGED BY E. Sandschafer

SECTION (13X)I-3 LOCATION NE 1/4, SEC. 13, TWP. 16 N, RNG. 1 E, 3 PM

COUNTY Macon DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. N/A
Station 058-pipeculv

BORING NO. 2
Station 636+30
Offset 55.00ft Lt
Ground Surface Elev. 665.34 ft

Surface Water Elev. 654.99 ft
Stream Bed Elev. 654.89 ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After ____ Hrs. Backfilled ft

DEPTH (ft)	BLOWS (/6")	UCS (tsf)	MOIST (%)
664.84			
6" shoulder mixture of crushed aggregate and clay.			
Stiff to medium, damp, red/grayblack, CLAY.	6		
	7 8	5.1 B	12
-5	4		
	4 6	1.5 PP	22
	2		
	4 4	1.0 B	25
655.84			
Stiff, damp, gray, CLAY LOAM. -10	3		
	4 4	1.3 B	25
653.34			
Medium, damp, gray, SILTY CLAY.	2		
	3 2	0.7 PP	23
650.84			
Hard, damp, gray, CLAY LOAM TILL. -15	6		
	10 16	4.4 B	12
	7		
	11 14	4.6 B	11
-20	5		
Hard, damp, gray, CLAY LOAM TILL. (continued) 644.34		8 11	3.5 B	12
Extent of exploration. -25				
Benchmark: BM 53 chiseled square on West end of South existing pipe culvert headwall, Sta 635+55 = 660.37' elevation. -30				
-35				
-40				

Latitude W 89 deg 43.561 min, Longitude N 39 deg 39.705 min, Map Datum WGS 84

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

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	PLOT DATE = 2/3/2009	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(13X)I-3	MACON	7	7
		CONTRACT NO. 74342		
	ILLINOIS FED. AID PROJECT			