

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS**

**PLANS FOR PROPOSED
HIGHWAY BRIDGE PROGRAM
FAU ROUTE 5208 (ORTH ROAD)
over UNNAMED BRANCH OF BEAVER CREEK**

**SECTION 07-00081-00-BR
BOONE COUNTY
PROJECT BRM-5099(078)
JOB # C-92-060-08**

INDEX OF SHEETS

1. TITLE SHEET
2. GENERAL NOTES, SUMMARY OF QUANTITIES, TYPICAL SECTION AND REMOVAL PLAN
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5. TRAFFIC CONTROL PLAN
6. CULVERT GENERAL PLAN AND ELEVATION
7. CULVERT END SECTION DETAILS
8. SOIL BORINGS
- 9-12. CROSS SECTIONS

LIST OF STANDARDS

280001-04	TEMPORARY EROSION CONTROL SYSTEMS
442201-03	CLASS C AND D PATCHES
515001-03	NAME PLATE FOR BRIDGES
630001-08	STEEL PLATE BEAM GUARDRAIL
630101-08	GUARDRAIL MOUNTED ON EXISTING CULVERTS
630301-05	SHOULDER WIDENING FOR TYPE 1 SPL GUARDRAIL TERMINALS
631011-05	TRAFFIC BARRIER TERMINAL, TYPE 2
635006-03	REFLECTOR AND TERMINAL MARKER REPLACEMENT
701006-03	OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701301-03	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATION
701901-01	TRAFFIC CONTROL DEVICES
720011-01	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
728001-01	TELESCOPING STEEL SIGN SUPPORT
729001-01	APPLICATIONS OF TYPES A & B METAL POSTS
BLR 21-8	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
BLR 22-6	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

UTILITY NAME	TYPE	PHONE NUMBER
SBC 2404 8th AVENUE ROCKFORD, IL 61108	TELEPHONE	(815) 394-7276
VERIZON NORTH, INC. 112 WEST ELM SYCAMORE, IL 60178	TELEPHONE	(815) 895-1538
NICOR 4651 LINDEN ROAD ROCKFORD, IL 61109	GAS	(815) 965-5416
COMED 123 ENERGY AVENUE ROCKFORD, IL 61109	ELECTRIC	(815) 490-2320
COMCAST 4450 KISHWAUKEE ST. ROCKFORD, IL 61109	CABLE TV	(815) 395-8977

UTILITY NOTE

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 ABOVEGROUND UTILITY LOCATION, IDENTIFICATION, AND MARKING ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. REROUTING, DISCONNECTION, PROTECTION, ETC. OF ANY UTILITIES MUST BE COORDINATED AMONG THE CONTRACTOR, UTILITY COMPANY, AND OWNER. SITE SAFETY, INCLUDING THE AVOIDANCE OF HAZARDS, ASSOCIATED WITH BURIED AND ABOVEGROUND UTILITIES REMAIN THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

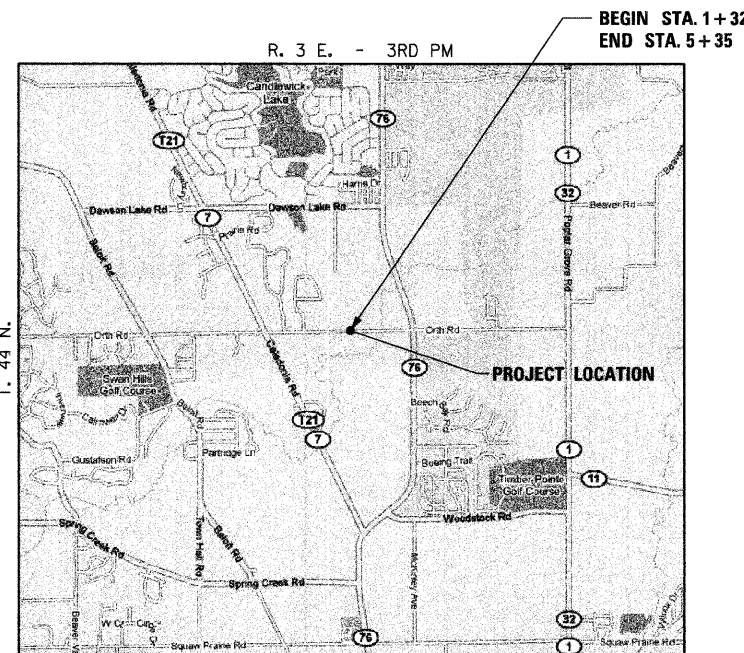
**J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123**

CONTRACT NO. 85442

PROJECT LOCATION



LOCATION OF SECTION INDICATED THIS: - [shaded area]



LOCATION MAP
SCALE IN FEET
NET LENGTH = 403 FEET (0.08 MILES)

PROPOSED IMPROVEMENTS:

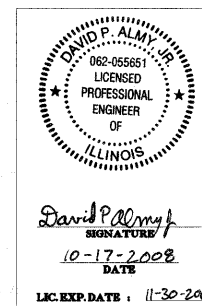
REMOVAL AND REPLACEMENT OF THE EXISTING CULVERT CARRYING ORTH ROAD OVER UNNAMED BRANCH OF BEAVER CREEK AT STA. 3+41. NEW STRUCTURE CONSISTS OF A TWO-CELL PRECAST CONCRETE BOX CULVERT. PROPOSED STR. NO. 004-5013.

TRAFFIC DATA:

FUNCTIONAL CLASSIFICATION: RURAL COLLECTOR
2008 ADT : 1800
DESIGN SPEED : 50 MPH (LEVEL) 3 R POLICY

PLAN SHEET SCALES: HORIZ. = 20
VERT. = 5

CROSS SECTION SHT. SCALES: HORIZ. = 10
VERT. = 5



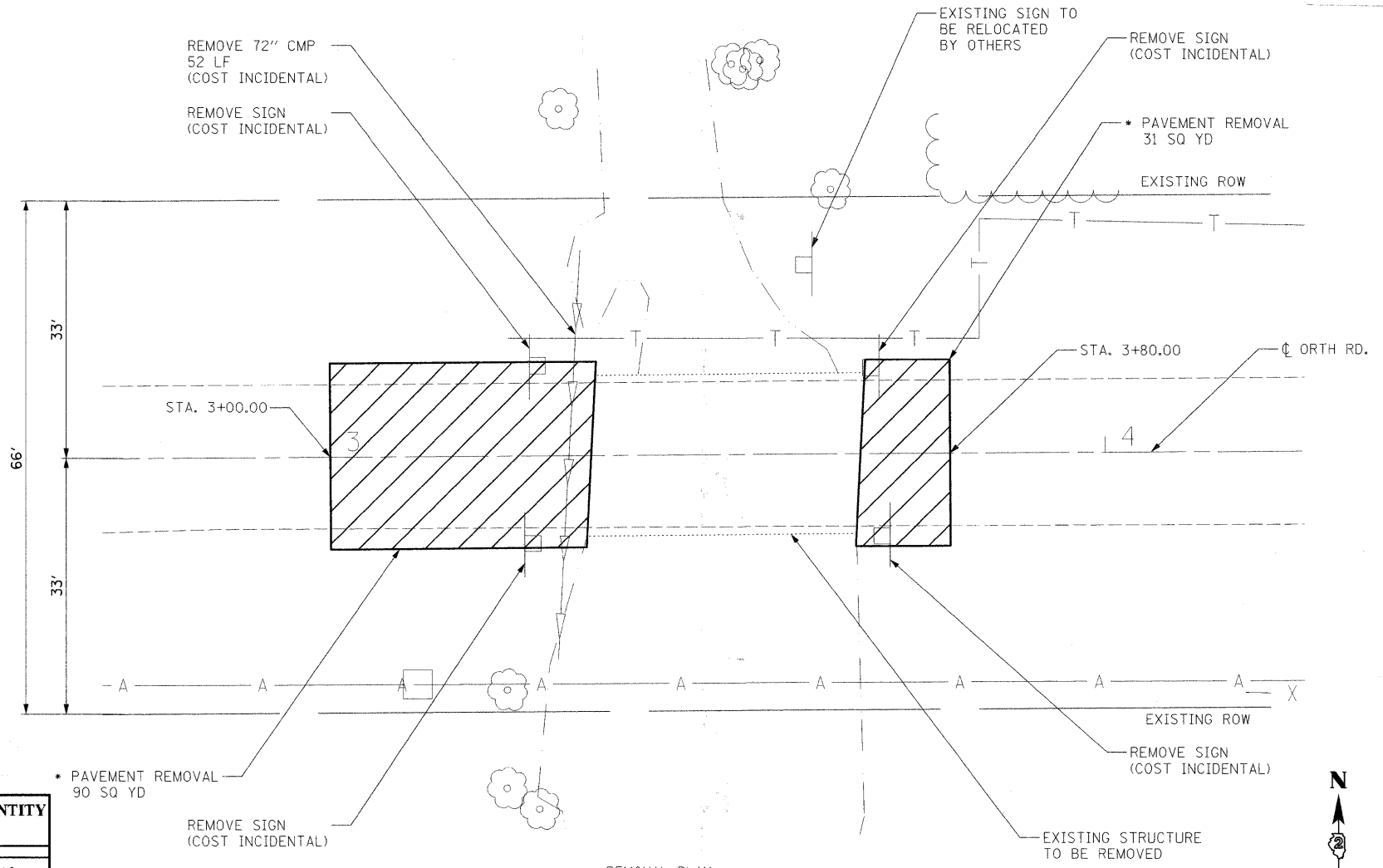
**ILLINOIS DESIGN FIRM
LICENSE NO: 184-001-084**

APPROVED <u>Oct. 17th</u> 20 <u>08</u> <i>[Signature]</i> TIMBERLAKE VILLAGE PRESIDENT
APPROVED <u>Oct. 17th</u> 20 <u>08</u> <i>[Signature]</i> BOONE COUNTY ENGINEER
PASSED <u>20</u> <i>[Signature]</i> DISTRICT 2 ENGINEER OF LOCAL ROADS & STREETS
RELEASING FOR BID BASED ON LIMITED REVIEW <u>20</u> <i>[Signature]</i> DEPUTY DIRECTOR OF HIGHWAYS, REGION 2 ENGINEER STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**

GENERAL NOTES

1. THE CONSTRUCTION SHALL BE GOVERNED BY THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS", CURRENT EDITION.
2. 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 THEIR FACILITIES. THE CONTRACTOR, ON SITE, SHALL DETERMINE THE EXACT LOCATIONS OF THE UTILITIES. THE CONTRACTOR SHALL CALL J.U.L.I.E. @ 1-800-892-0123 FOR UTILITY LOCATIONS.
3. THE CONTRACTOR WILL BE RESPONSIBLE FOR REPAIRS TO ANY UTILITY LINES AND EXISTING IMPROVEMENTS TO REMAIN THAT ARE DAMAGED AS A RESULT OF THE WORK.
4. ACCESS SHALL BE MAINTAINED TO ALL PROPERTIES DURING ALL STAGES OF CONSTRUCTION.
5. EXCESS MATERIAL, IF NOT USED FOR OTHER ON-SITE PURPOSES, SHALL BE COMPLETELY REMOVED FROM THE CONSTRUCTION SITE AND DISPOSED OF OFF-SITE BY THE CONTRACTOR.
6. THE WORK AREA SHALL BE POSITIVELY DRAINED DURING CONSTRUCTION. FINAL GRADES SHALL BE PROTECTED AGAINST DAMAGE FROM EROSION, SEDIMENTATION, AND TRAFFIC.
7. WHERE PROPOSED CONSTRUCTION ABUTS EXISTING APPURTENANCES, A SAWCUT SHALL BE MADE TO ACHIEVE A NEAT BUTT JOINT. THE SAWCUT IS TO BE INCLUDED IN THE COST OF THE CLASS D PATCHES.
8. WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE COUNTY 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 THEIR LOCATION.
9. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCY IMMEDIATELY.



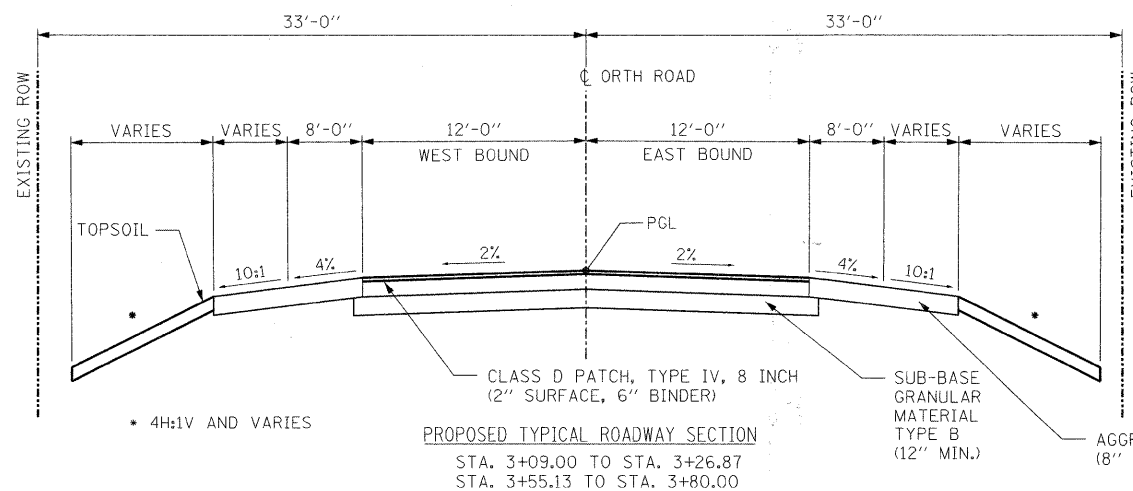
SUMMARY OF QUANTITIES

ITEM NUMBER	ITEM CONSTRUCTION TYPE CODE : X088-2A	UNIT	QUANTITY
* 20900110	POROUS GRANULAR BACKFILL	CU YD	410
25100630	EROSION CONTROL BLANKET	SQ YD	340
28000300	TEMPORARY DITCH CHECKS	EACH	9
28000400	PERIMETER EROSION BARRIER	FOOT	230
28100109	STONE RIPRAP, CLASS A5	SQ YD	85
28200200	FILTER FABRIC	SQ YD	85
* 31101000	SUB-BASE GRANULAR MATERIAL, TYPE B	TON	158
44201747	CLASS D PATCH, TYPE IV, 8 INCH	SQ YD	213
48101200	AGGREGATE SHOULDERS, TYPE B	TON	341
* 50100200	REMOVAL OF EXISTING STRUCTURES	L SUM	1
51500100	NAME PLATES	EACH	1
* 54021206	PRECAST CONCRETE BOX CULVERT 12' X 6' (M273)	FOOT	95
Δ 63000000	STEEL PLATE BEAM GUARDRAIL, TYPE A	FOOT	100
Δ 63000005	STEEL PLATE BEAM GUARDRAIL, TYPE B	FOOT	50
Δ* 63000155	STEEL PLATE BEAM GUARDRAIL, ATTACHED TO STRUCTURES (SPECIAL)	FOOT	75
Δ 63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	2
Δ 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2
Δ 67100100	MOBILIZATION	L SUM	1
* 70103700	TRAFFIC CONTROL COMPLETE	L SUM	1
Δ 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	2
* XX002053	LANDSCAPE RESTORATION	L SUM	1
* XX006821	CONCRETE TRUCK WASHOUT	L SUM	2
* Z0013798	CONSTRUCTION LAYOUT	L SUM	1
* Z0038700	PERMANENT BENCH MARKS	EACH	1
* XX007153	BOX CULVERT WINGWALL	EACH	4

Δ SPECIALTY ITEMS

* PAVEMENT REMOVAL 90 SQ YD

* COST OF PAVEMENT REMOVAL INCLUDED WITH CLASS D PATCH



	HMA SURFACE	HMA BINDER
PG GRADE	PG58-28	PG58-28
DESIGN AIR VOIDS	4% AT N50	4%
MIXTURE COMPOSITION	IL-9.5 OR IL-12.5	IL-19.0



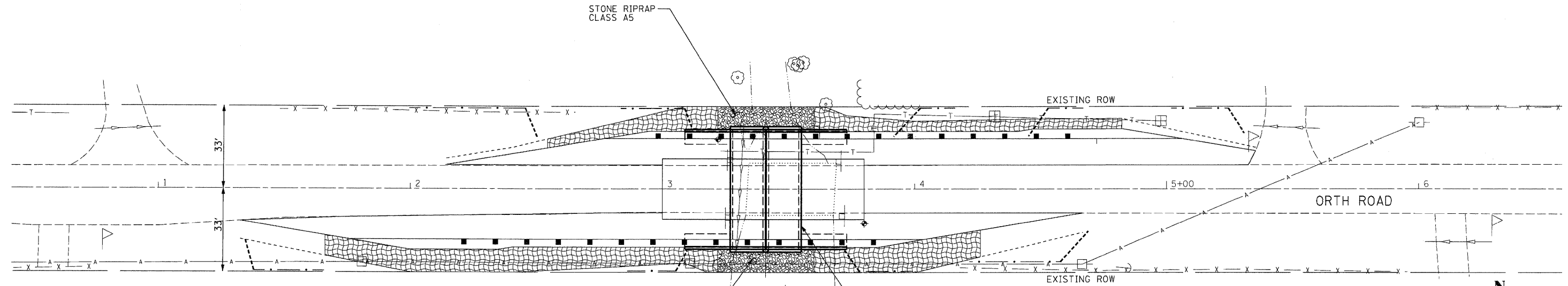
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 DESIGNED - DPA
 DRAWN - MWH
 CHECKED - DPA
 DATE - 10/17/08
 REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ORTH ROAD BOX CULVERT
 GENERAL NOTES, SUMMARY OF QUANTITIES,
 TYPICAL SECTION AND REMOVAL PLAN

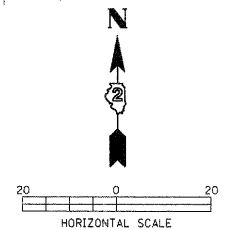
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5208	07-00081-0-BR	BOONE	12	2
CONTRACT NO.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



NOTE:
SEED ALL DISTURBED AREAS IN ACCORDANCE WITH THE LANDSCAPE RESTORATION SPECIAL PROVISION.

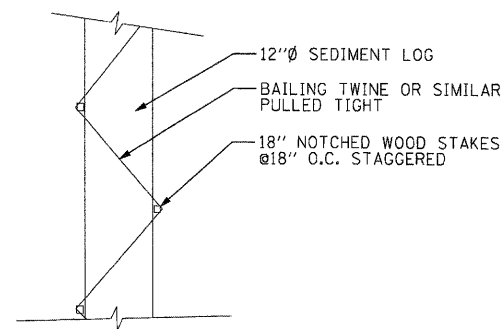
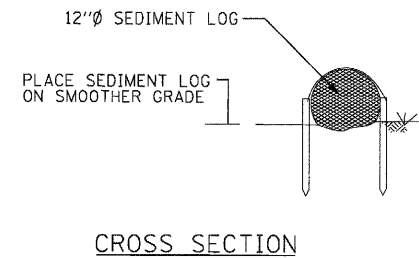
STONE RIPRAP CLASS A5
PROPOSED PRECAST BOX CULVERT



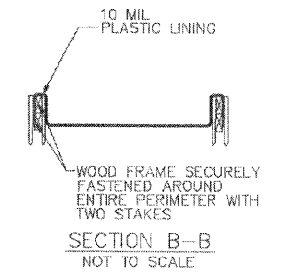
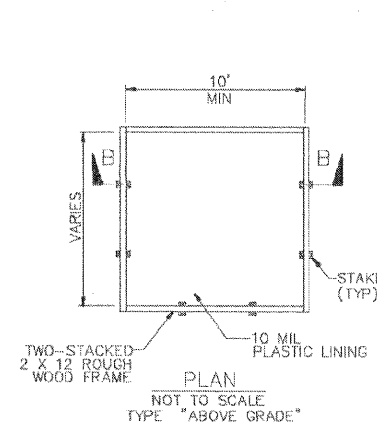
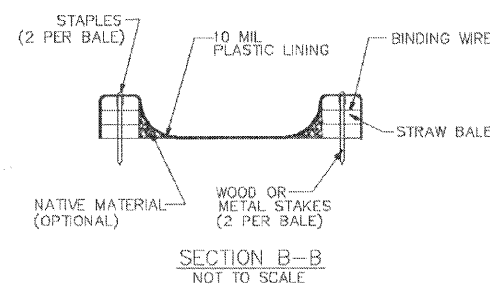
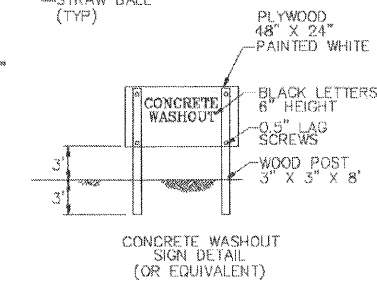
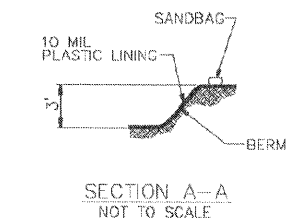
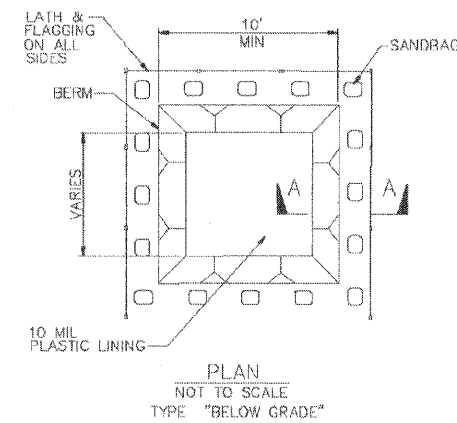
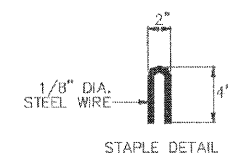
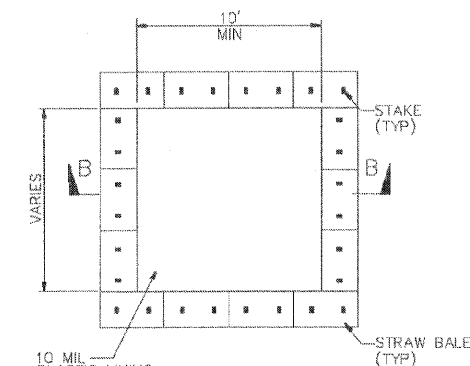
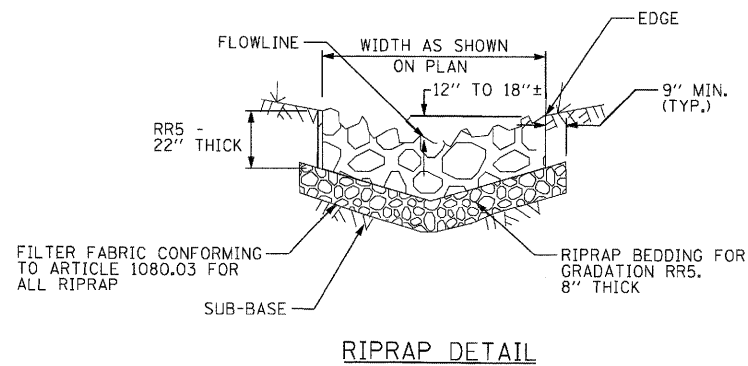
LEGEND

- PERIMETER EROSION BARRIER
- RR5 RIPRAP
- EROSION CONTROL BLANKET
- TEMPORARY DITCH CHECK
- FLOWLINE

HANSON
Hanson Professional Services Inc.



**PERIMETER EROSION BARRIER
TEMPORARY DITCH CHECK DETAIL**



- NOTES**
- ACTUAL LAYOUT DETERMINED IN FIELD.
 - THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FT. OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

CONCRETE TRUCK WASHOUT DETAIL

LAYOUT: MWH 07/25/08 Husse0041
 DRAWN: MWH 10/17/08 10/16/2008
 REVIEWED: DPA 10/17/08 10/16/2008
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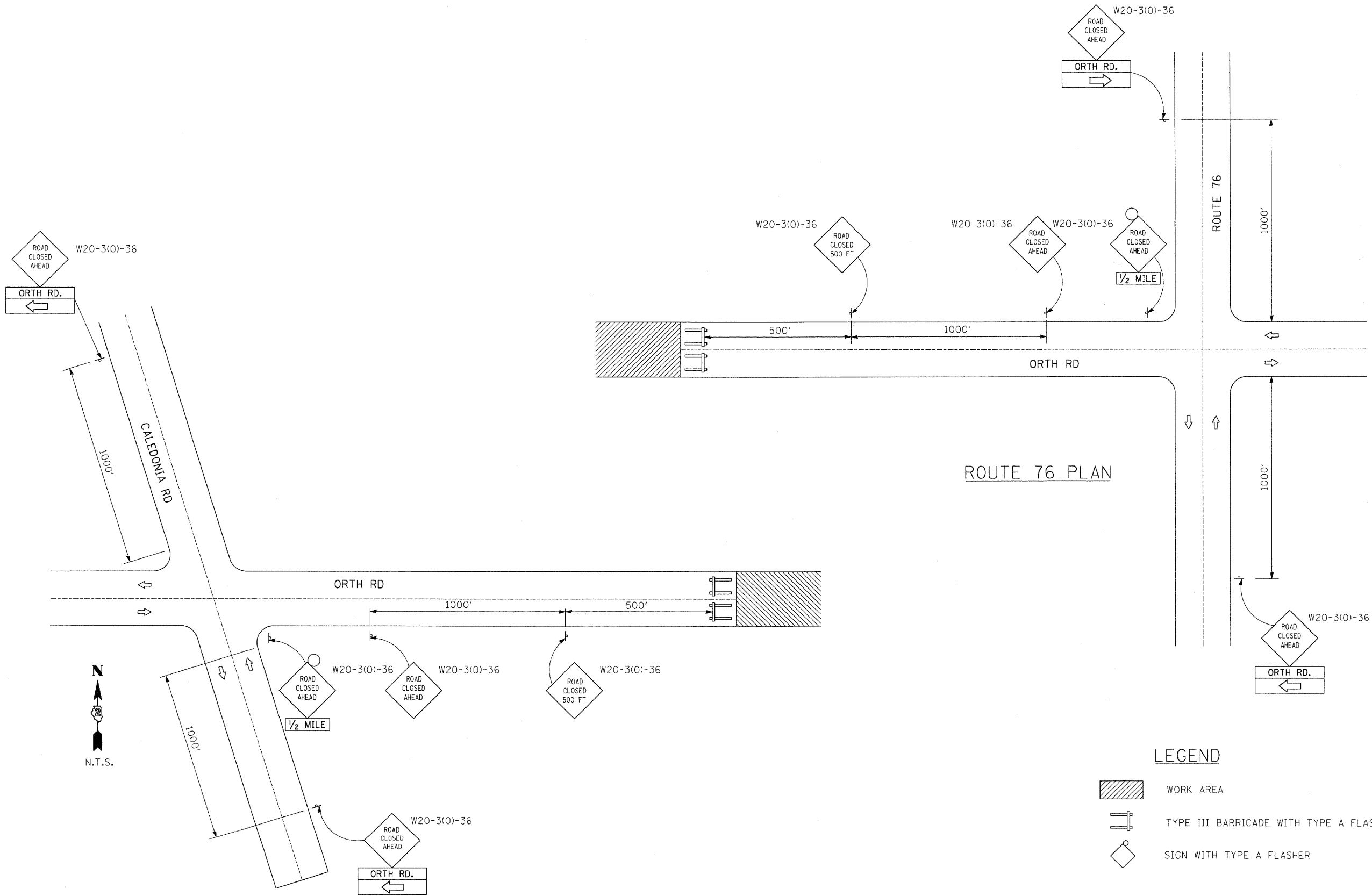
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**




**ORTH ROAD BOX CULVERT
EROSION CONTROL PLAN**

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F.A. RTE. 5208	SECTION 07-00081-0-BR	COUNTY BOONE	TOTAL SHEETS 12	SHEET NO. 4
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT		CONTRACT NO.		



LEGEND

-  WORK AREA
-  TYPE III BARRICADE WITH TYPE A FLASHERS
-  SIGN WITH TYPE A FLASHER

CALEDONIA ROAD PLAN

ROUTE 76 PLAN

LAYOUT	MWH	10/17/08	Huss004H
DRAWN	MWH	10/17/08	10/16/2008
REVIEWED	DPA	10/17/08	10/17/08

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		CHECKED - DPA	REVISED -
		DATE - 10/17/08	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ORTH ROAD BOX CULVERT
TRAFFIC CONTROL PLAN**

SCALE: AS SHOWN SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			12	5
CONTRACT NO.		ILLINOIS FED. AID PROJECT		

PROJECT **Orth Road Bridge, 07-00081-0-BR, P-92-052-08, Boone Co., IL**

CLIENT **Hanson Professional Services, Inc., Rockford, Illinois**

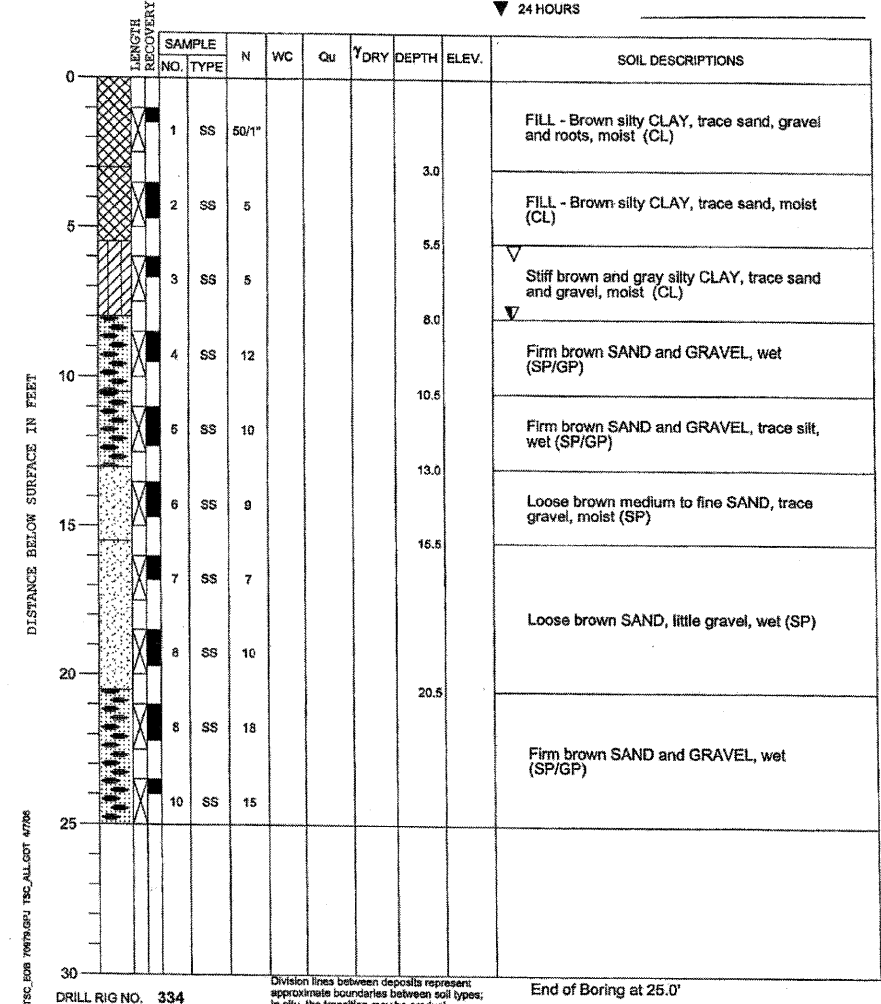
BORING **1** DATE STARTED **4-4-08** DATE COMPLETED **4-4-08** JOB **L-70,979**

ELEVATIONS WATER LEVEL OBSERVATIONS

GROUND SURFACE **821.30** WHILE DRILLING **8.0'**

END OF BORING **6.0'** AT END OF BORING **6.0'**

24 HOURS



PROJECT **Orth Road Bridge, 07-00081-0-BR, P-92-052-08, Boone Co., IL**

CLIENT **Hanson Professional Services, Inc., Rockford, Illinois**

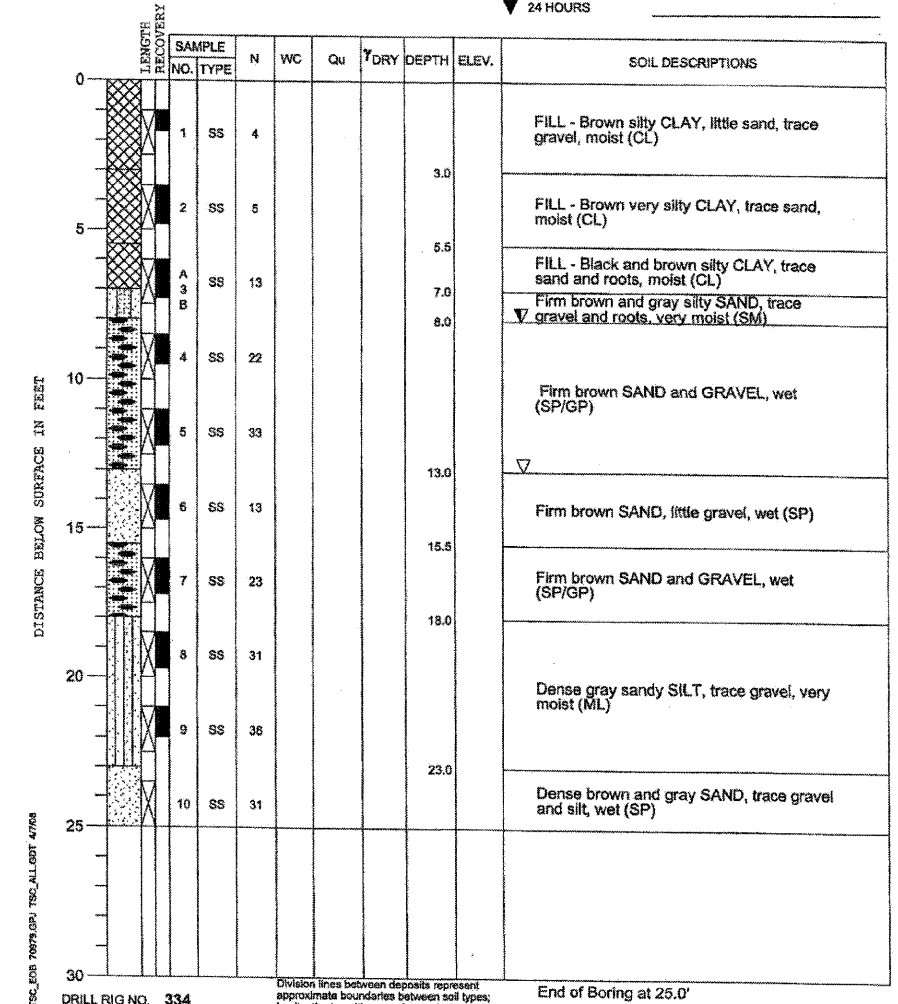
BORING **2** DATE STARTED **4-4-08** DATE COMPLETED **4-4-08** JOB **L-70,979**

ELEVATIONS WATER LEVEL OBSERVATIONS

GROUND SURFACE **822.03** WHILE DRILLING **8.0'**

END OF BORING **13.0'** AT END OF BORING **13.0'**

24 HOURS



11/19/08 AM
 10/16/2008
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LAYOUT	MR.	07/17/08
DRAWN	MGR	07/31/08
REVIEWED	JRR	07/31/08

Corporate License Number 184-001-084

BORING LOGS

**ORTH ROAD BOX CULVERT
 OVER BRANCH OF BEAVER CREEK
 FAU 5208
 SECTION 07-00081-00-BR
 BOONE COUNTY, ILLINOIS
 STATION 3+41
 STRUCTURE NO. 004-5013**

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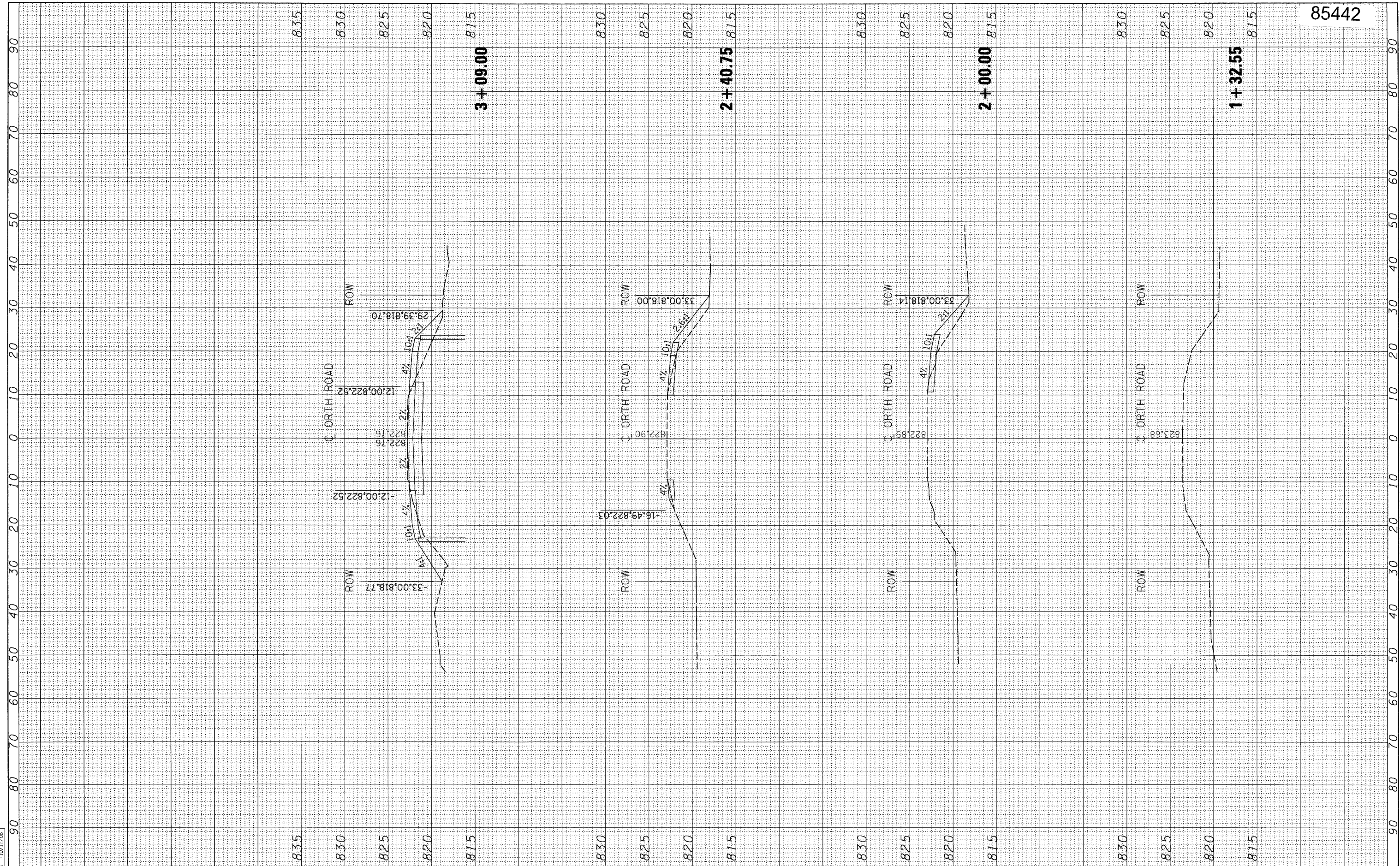
JOB NO.
08L0031
DATE
10/17/08

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



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

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DRAWN	MWH	10/17/08
REVIEWED	DPA	10/17/08

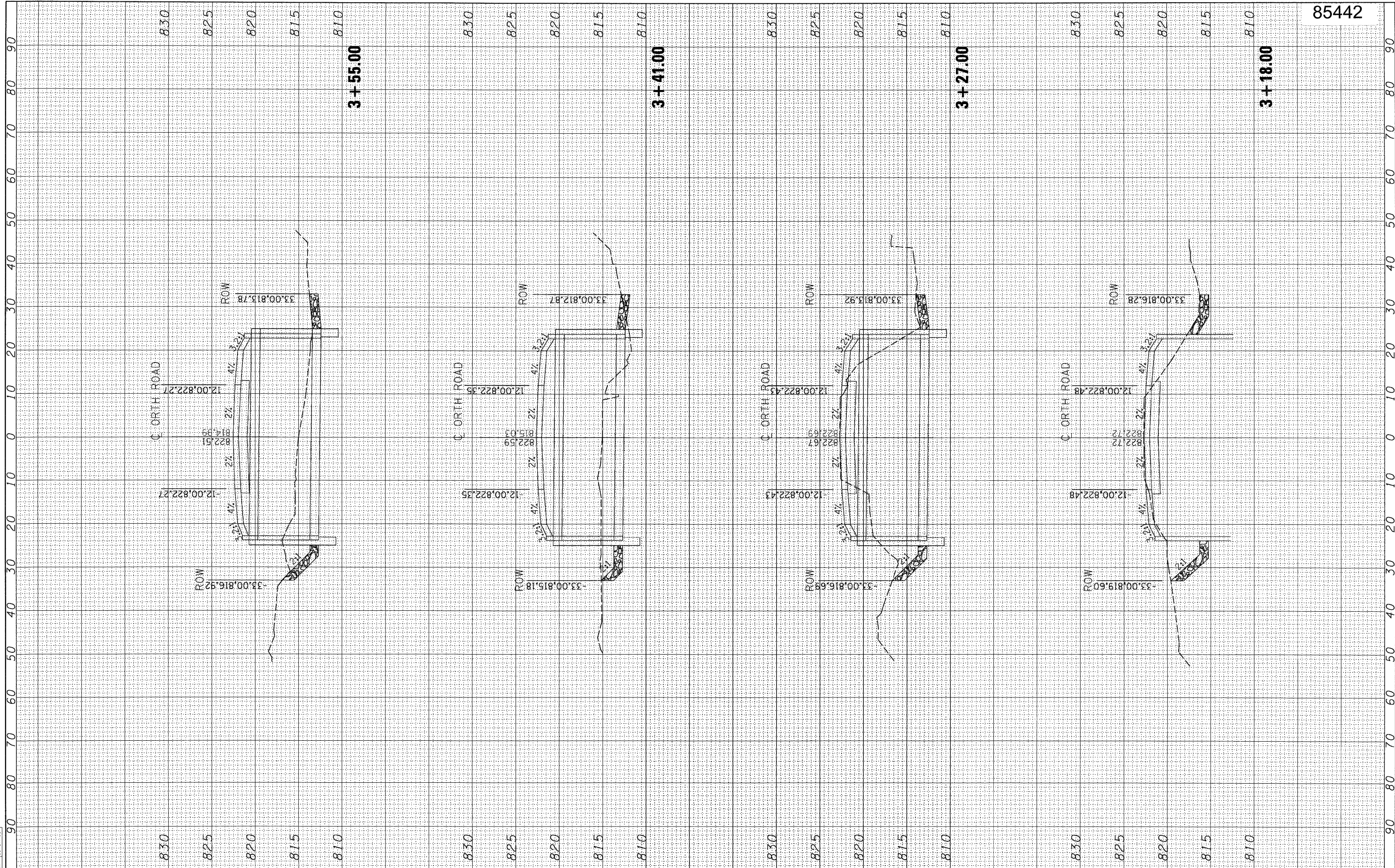


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PLOT DATE = 10/16/2008		DATE - 10/17/08	REVISED -			CONTRACT NO.							

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

ORIGINAL SURVEY	BY	DATE
SURVEYED		
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NOTE BOOK		
AREAS CHECKED		
NO.		

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REVIEWED	DPA	10/17/08



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ORTH ROAD BOX CULVERT
CROSS SECTIONS**

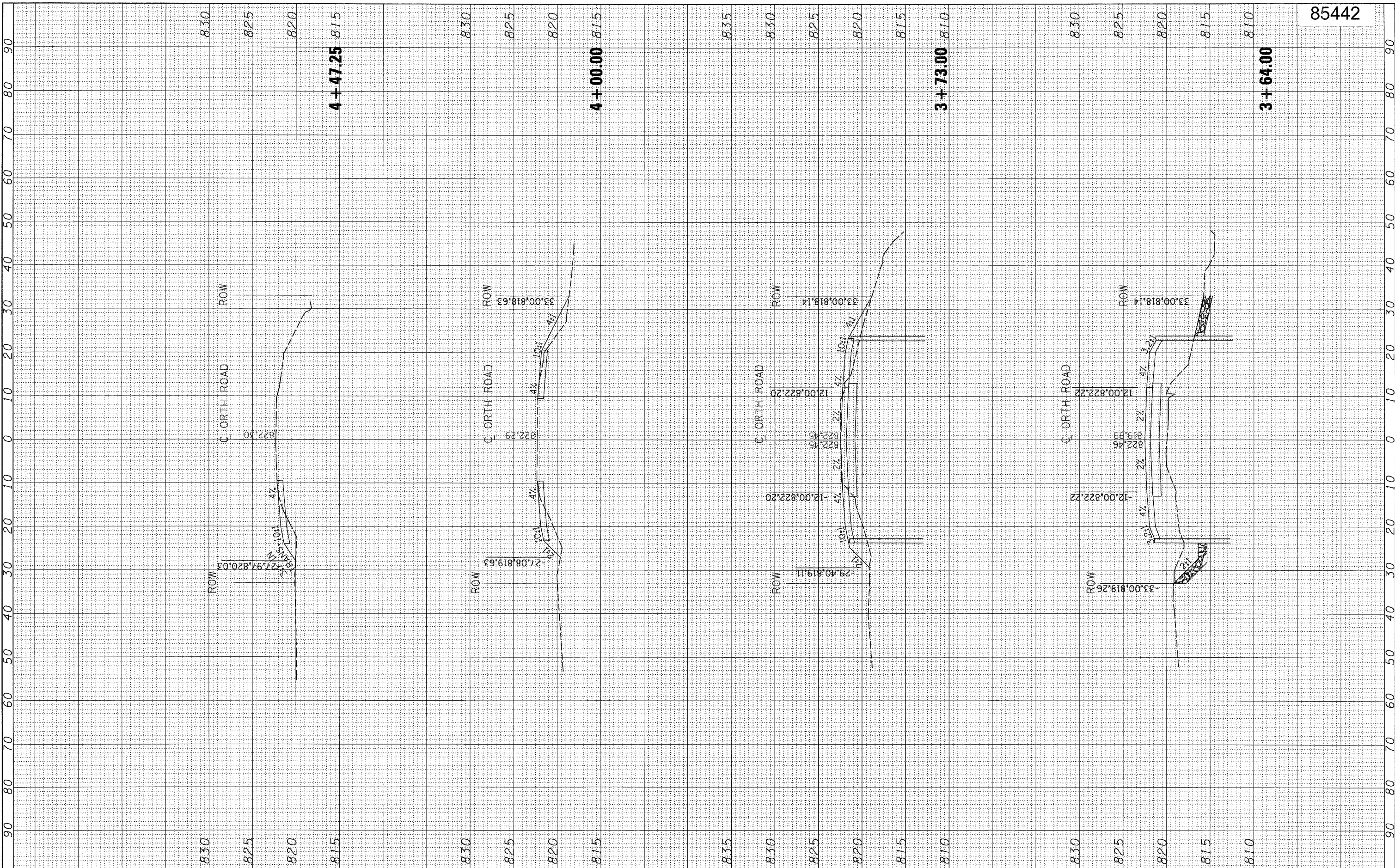
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CONTRACT NO.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

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NOTE BOOK	PLOTTED		
NO.	AREAS CHECKED		

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

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REVIEWED	DPA	10/17/08



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	DATE - 10/17/08	REVISED -

REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ORTH ROAD BOX CULVERT
CROSS SECTIONS**

SCALE: AS SHOWN SHEET NO. OF SHEETS STA. 3+64.00 TO STA. 4+47.25

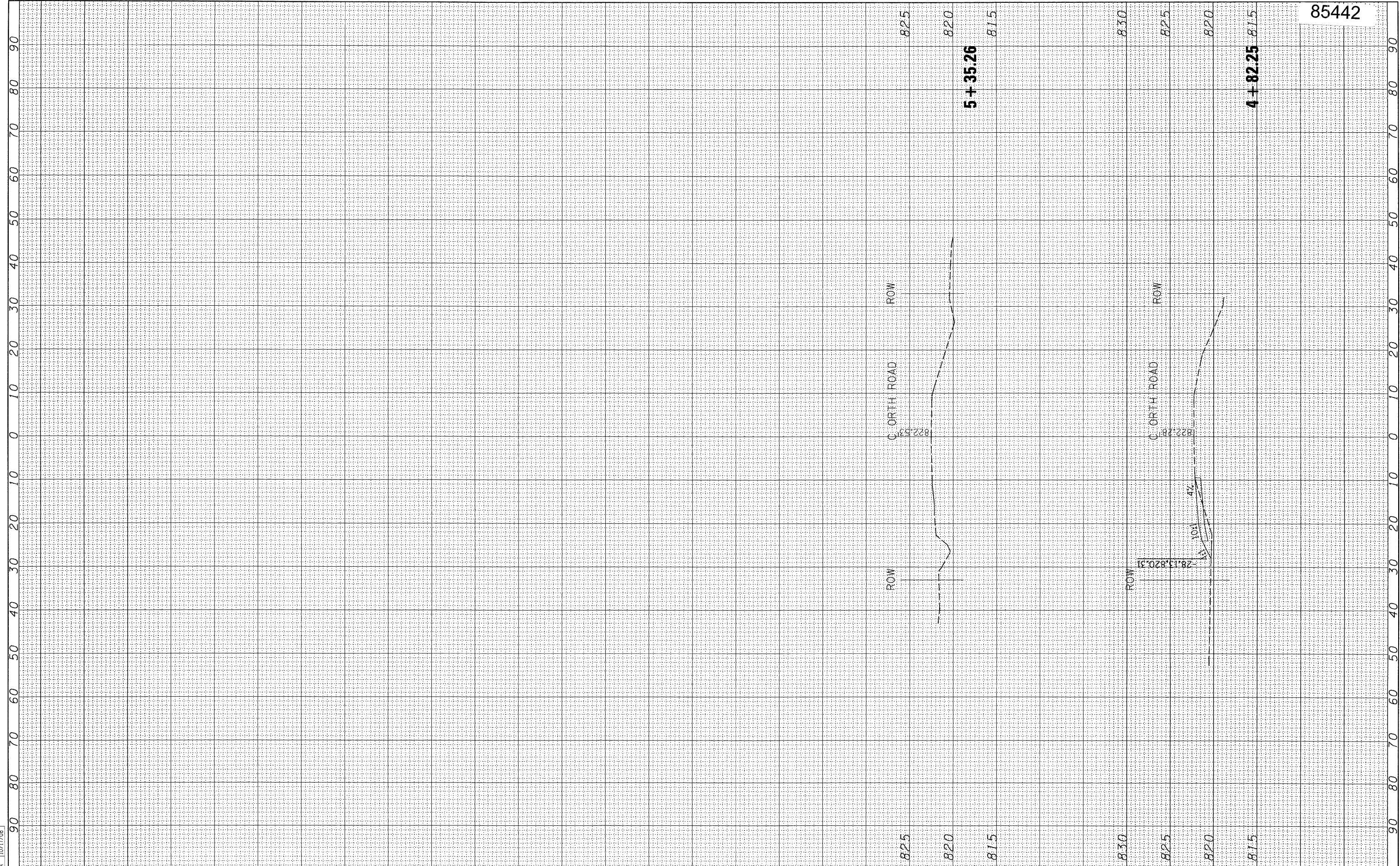
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CONTRACT NO.				

85442

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CHECKED		
NOTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

ORIGINAL SURVEY	BY	DATE
CHECKED		
NOTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

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REVIEWED	DPA	10/17/08



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REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ORTH ROAD BOX CULVERT
 CROSS SECTIONS**

SCALE: AS SHOWN SHEET NO. OF SHEETS STA. 4+82.25 TO STA. 5+35.26

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			12	12
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
CONTRACT NO.				