

The Board of Supervisors met on 12/27/17 at 10:00 a.m. in the Story County Administration Building. Members present: Marty Chitty, Lauris Olson and Rick Sanders, with Sanders presiding. (all audio of meetings available at storycountyiowa.gov). Sanders added a personnel action for a new hire in the Sheriff's Office.

MINUTES: 12/19/17 Minutes will be considered at the 1/2/18 meeting.

PERSONNEL ACTIONS: 1) new hire in Sheriff's Office, effective 1/2/18, for Blake Davis at \$1,678.95/bw; effective 1/8/18 for Riley Auld at \$1,581.99/bw; 2) correction in Facilities, effective 12/24/17, for Kevin Warren at \$20.23/hr. Chitty moved, Olson seconded the approval of personnel actions with the addition of the new hire in the Sheriff's Office. Motion carried unanimously (MCU) on a roll call vote.

CLAIMS: 12/28/17 Claims of \$ 375,243.50 (run date 12/22/17, 33 pages, on file in the Auditor's Office) and authorize the Auditor to issue checks in payments of these claims and payment requests from BooST School Ready Service (\$24,804.80), BooST Early Childhood (\$3,842.69), Central Iowa Drug Task Force (CIDTF) (\$4,600.19), Emergency Management (\$497.94), E911 Surcharge (\$4,804.37), County Assessor (\$11,212.02), and Ames City Assessor (\$9,885.94). Sanders requested to remove the Parenting Way claims and refer them to the Civil Attorney after reports from the State Auditor. The Board concurred. Olson moved, Chitty seconded the approval of all claims with the exception of those for Parenting Way. Sanders clarified the Parenting Way claims will be referred to the Civil Attorney. Olson moved, Chitty seconded referring the Parenting Way claims to the Civil Attorney prior to consideration. Roll call vote. (MCU) Olson moved, Chitty seconded approval of amended claims as presented. Roll call vote. (MCU)

1. Agreement with Tyco SimplexGrinnell for fire alarm testing and inspection at the Human Services Center, 1/1/18-12/31/18, for \$2,559.05
2. Sheriff's Office to increase the mileage fee charged from \$.535 to \$.545 per mile to remain in line with the allowable fees permitted by the Internal Revenue Service (IRS), effective 1/1/18
3. 28E Agreements between Animal Control and the following Cities: Cambridge, Roland, Zearing, effective upon signature-6/30/18
4. Contract between Tyler Technologies, Inc. and Information Technology for software maintenance, effective 1/1/18-12/31/18, for \$35,148.00
5. Renewal of Class E Liquor License (LE) for Casey's General Store, 17005 US Highway 69, Ames, Iowa, including Class B Native Wine Permit, Class C Beer Permit (carryout beer), and Sunday Sales, effective 2/28/17-2/27/18
6. Final Plans for Bridge Replacement - RCB Culvert on 280th Street over Clear Creek, Section 2 of Collins Township and Section 35 of New Albany Township (Project No. L-C2B--73-85)
7. Final Plans for Farm-To-Market System PCC Pavement- Grade and New, Sections 21 and 22, Washington Township (Project No. FM-CO85(146)--55-85)
8. Final Plans for RCB Culvert Replacement -Twin Box on 690th Avenue, Section 5, Lincoln Township (Project No. L-LIN5--73-85)
9. Tax Suspension Recipient, owner of parcel 11-07-414-640
10. Acknowledgment of Appointment to the Compensation Board by the Treasurer of Rebecca Reisinger for a term expiring 6/30/19
11. Appointment to the Board of Adjustment of Steve McGill for a five-year term ending 12/31/22
12. Appointment to the Civil Service Commission of Laura Carlson for a six-year term expiring 12/31/23
13. Appointment to the Conservation Board of Craig Meyers for a five-year term expiring 12/31/22
14. Appointment to the Board of Health of Dr. John Kluge and Dr. John Paschen for three-year terms expiring 12/31/20
15. Appointment to the Central Iowa Community Services Advisory Council of Wendie Copper and Jennifer Ellis for two-year terms expiring 12/31/19
16. Appointment to the Planning and Zoning Commission of Kathy Mens for a five-year term ending 12/31/22
17. Road Closure Resolution: #18-26
18. Utility Permits: #18-48 - #18-50

Olson commented on applications by women for the various boards.

Roll call vote. (MCU)

LIAISON ASSIGNMENTS, COMMITTEE MEETINGS UPDATES, AND ANNOUNCEMENTS FROM THE

SUPERVISORS: Chitty commented on the prior week's liaison assignments comments from Olson and reported on the County Attorney's opinion regarding conversations between Chitty and Olson. Discussion took place.

Chitty moved, Olson seconded to adjourn at 10:35 a.m. Roll call vote. (MCU)

Story County
Board of Supervisors Meeting
Limited Agenda
12/27/17

1. CALL TO ORDER: 10:00 A.M.

2. PUBLIC COMMENT #1:

This comment period is for the public to address topics on today's agenda

3. PLEDGE OF ALLEGIANCE:

4. CONSIDERATION OF MINUTES:

I. 12/19/17 Minutes

Department Submitting Auditor

5. CONSIDERATION OF PERSONNEL ACTIONS:

I. Action Forms

1) new hire effective 1/8/18 in Sheriff's Office for Riley Auld @ \$1,581.99/bw; 2)
correction in Facilities effective 12/24/17 for Kevin Warren @ \$20.23/hr

Department Submitting HR

6. CONSIDERATION OF CLAIMS:

I. 12/28/17 Claims

Department Submitting Auditor

Documents:

CLAIMS 122817.PDF

7. CONSENT AGENDA:

(All items listed under the consent agenda will be enacted by one motion. There will be no separate discussion of these items unless a request is made prior to the time the Board votes on the motion.)

I. Consideration Of Agreement With Tyco SimplexGrinnell For Fire Alarm Testing And Inspection At The Human Services Center, 1/1/18-12/31/18, For \$2,559.05

Department Submitting Facilities Management

Documents:

TYCO.PDF

II. Consideration For The Sheriff's Office To Increase The Mileage Fee Charged From \$.535 To \$.545 Per Mile To Remain In Line With The Allowable Fees Permitted By The IRS Effective 01/01/2018

Department Submitting Sheriff

Documents:

IRS MILEAGE INCREASE.PDF

- III. Consideration Of 28E Agreements Between Animal Control And The Following Cities:
Cambridge, Roland, And Zearing Effective Upon Signature - 6/30/18

Department Submitting Auditor

Documents:

ACO AGREEMENTS.PDF

- IV. Consideration Of Contract Between Tyler Technologies, Inc. And Information Technology
For Software Maintenance, Effective 01/01/18-12/31/18, For \$35,148.00

Department Submitting Information Technology

Documents:

TYLERTECHNOLOGY.PDF

- V. Consideration Of Renewal Of Class E Liquor License (LE) For Casey's General Store,
17005 Hwy 69, Ames, IA. Including Class B Native Wine Permit, Class C Beer Permit
(Carryout Beer), And Sunday Sales Effective 2/28/17-2/27/18

Department Submitting Auditor

Documents:

RENEWAL CASEYS.PDF

- VI. Consideration Of Final Plans For Bridge Replacement - RCB Culvert On 280th Street
Over Clear Creek, Section 2 Of Collins Township And Section 35 Of New Albany
Township (Project No. L-C2B--73-85)

Department Submitting Engineer

Documents:

280TH CLEAR CREEK FINAL PLANS.PDF

- VII. Consideration Of Final Plans For Farm-To-Market System PCC Pavement- Grade And
New, Section 21 And 22, Washington Township (Project No. FM-CO85(146)--55-85)

Department Submitting Engineer

Documents:

530TH AVE FARM TO MARKET.PDF

VIII. Consideration Of Final Plans For RCB Culvert Replacement -Twin Box On 690th Ave.,
Section 5, Lincoln Township (Project No. L-LIN5--73-85

Department Submitting Engineer

Documents:

690TH CULVERT REPLACEMENT.PDF

IX. Consideration Of Tax Suspension Recipient

Department Submitting Board of Supervisors

Documents:

TAX SUSPENSION.PDF

X. Acknowledgement Of Appointment To The Compensation Board By The Treasurer Of
Rebecca Reisinger For A Term Expiring June 30, 2019

Department Submitting Board of Supervisors

XI. Consideration Of Appointment To The Board Of Adjustment For: Steve McGill For A Five
Year Term Ending 12/31/22

Department Submitting Board of Supervisors

XII. Consideration Of Appointment To The Civil Service Commission: Laura Carlson For A
Six Year Term Expiring 12/31/23

Department Submitting Board Of Supervisors

XIII. Consideration Of Appointment To The Conservation Board: Craig Meyers For A Five
Year Term Expiring 12/31/22

Department Submitting Board Of Supervisors

XIV. Consideration Of Appointments To The Board Of Health: Dr. John Kluge And Dr. John
Paschen For Three Year Terms Expiring 12/31/20

Department Submitting Board of Supervisors

XV. Consideration Of Appointments To The Central Iowa Community Services Advisory
Council: Wendie Copper And Jennifer Ellis For Two Year Terms Expiring 12/31/19

Department Submitting Board of Supervisors

XVI. Consideration Of Appointment For Planning And Zoning Commission For A 5 Year Term
Ending 12/31/2022 For Kathy Mens

Department Submitting BOS

XVII. Consideration Of Road Closure Resolution(S): #18-26

Department Submitting Engineer

Documents:

RC 18 26.PDF

XVIII. Consideration Of Utility Permit(S): #18-48; #18-49; #18-50

Department Submitting Engineer

Documents:

UT 18 048.PDF

UT 18 049.PDF

UT 18 050.PDF

8. PUBLIC FORUM #2:

Comments from the Public on Items not on this Agenda. The Board may not take any Action on the Comments due to the Requirements of the Open Meetings Law, but May Do So In the Future.

9. LIAISON ASSIGNMENTS, COMMITTEE MEETINGS UPDATES, AND ANNOUNCEMENTS FROM THE SUPERVISORS:

10. ADJOURNMENT:

Story County strives to ensure that its programs and activities do not discriminate on the basis of race, color, national origin, sex, age or disability. Persons requiring assistance, auxiliary aids or services, or accommodation because of a disability may contact the county's ADA coordinator at (515)382-7204.

P. 10

BOS office

And
BCS

APPROVED

DENIED

Board Member Initials: RS

Meeting Date: 12-27-17

Follow-up action: _____

tyco
SimplexGrinnell

D-U-N-S 09-4738007
FED. ID 58-2608861

District # 320
4170 Nw Urbandale Dr
URBANDALE, IA 50322-2067
515-278-4100

Bill To: 320-00289793

Story Co Facilities Management
900 6th St
NEVADA IA 50201-2004

INVOICE NO.

79843107

INVOICE DATE

12-01-17

CUSTOMER PO

CONTRACT #

604827

MODIFIER

R31-AUG-2015

PAYMENT TERMS

NET 30

Ship To: 320-89664673

Story County Human Services
126 S Kellogg Ave
AMES IA 50010-7030

Requestors Name: Hahn, Al

CONTRACT DESCRIPTION	CONTRACT START DATE	CONTRACT END DATE
STORY COUNTY HUMAN SERVICES 126 S KELLOGG 89664673	01-JAN-16	31-DEC-20

INVOICE NOTES:

This is your annual invoice for the test and inspect of the Fire Alarm system located at 126 S Kellogg Ave Ames IA 50010 for Story County Human Services.

Total Contract Amount	-	\$12,795.24	Amount Of Current Invoice	-	\$2,559.05
			Sales Tax	-	\$0.00
			Total Amount Included	-	\$2,559.05
			Payment Received	-	\$0.00

Total Amount Due  **\$2,559.05**



District # 320
4170 Nw Urbandale Dr
URBANDALE, IA 50322-2067
515-278-4100

INVOICE NO.

79843107

DATE OF INVOICE

12-01-17

INVOICE CONTRACT DETAIL

Service Plan Name	Billing Start Date	Billing End Date	Ship To Address	Covered Product	Qty	Description	Amount
Fire Alarm Test & Inspect	01-JAN-18	31-DEC-18	126 S Kellogg Ave, , AMES, IA	SYSTEM-FA-SMPLX	1	SIMPLEX 4004/4005	\$2,559.05
				4004/4005		SYSTEM	
				4005-9101	1	LIFEALARM FACP 8 IDS 4	
				S/N J92908GS		NAC BG	
				4602-9102	1	SERIAL ANNUNCIATOR-RCU	
				4098-9601	131	PHOTO DETECTOR	
				4098-9682	11	DETECTOR BASE 4-WIRE	
				4098-9613	4	HEAT DETECTOR 135 ROR	
				4904-9137	10	V/O 24VDC 15CD RED 1 HZ	
				2099-9754	17	MANUAL STATION - SINGLE ACTION	
				4903-9236	24	A/V 24VDC 15CD RED 1HZ HORIZ	
				4098-9429	8	HEAT DETECTOR CF135-2	
				4005-9810	1	AFMKT CCDACT FOR 4005	
				4098-9601	2	PHOTO DETECTOR	
				FA-SMK CLEAN	133	** IB ONLY ** CLEAN	
				FA-SENSVTY	133	** IB ONLY ** SENSITIVITY TEST	



Sheriff's Office

Story County
PAUL H. FITZGERALD, Sheriff



Emergency 911 • Office: 515-382-6566 • Fax #: 515-382-7479 • P.O. Box 265 • Nevada, Iowa 50201

December 18, 2017

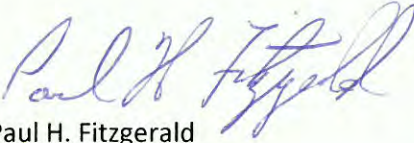
Rick Sanders, Chairperson
Story County Board of Supervisors
Marty Chitty
Lauris Olson

Dear Board of Supervisors:

It has come to the attention of my office, effective January 1, 2018 the IRS will increase their mileage rate from \$.535 to \$.545. As you are aware the Sheriff's mileage fee is governed by the Code of Iowa, Chapter 331.655(1)(j). Code of Iowa, Chapter 70A.9 states we may charge a mileage fee up to the maximum allowed under federal internal revenue service rules. To remain in line with the allowable fees permitted by the IRS, we would like to change our current \$.535 per mile to \$.545 per mile.

Therefore, we request your approval to increase the current mileage fee charged to the rate of \$.545 to be effective immediately.

Respectfully,


Paul H. Fitzgerald
Story County Sheriff

APPROVED **DENIED**
Board Member Initials: PS
Meeting Date: 12-27-17
Follow-up action: _____

APSH.

ALL IOWA SHERIFF'S OFFICES

ATTN: CIVIL DIVISIONS

EFFECTIVE JANUARY 1ST 2018 THE NEW ALLOWABLE IRS MILEAGE RATE
WILL BE 54.5 CENTS PER MILE

ANY QUESTIONS CONTACT CAPTAIN RANDY ROWLAND AT 319 892-6162
LINN COUNTY SHERIFFS OFFICE

S572/SAO

;201712150741/201712150741
S851 723
MESSAGE FROM S572
059759

Story County, Iowa

**BILLS MUST BE FULLY ITEMIZED WITH
INVOICES ATTACHED**

IN ACCOUNT WITH (Vendor) **Tyler Technologies, Inc**

Claim Number

Warrant Number

Date Paid
APPROVED BY BOARD OF
SUPERVISORS ON DATE

Date Paid

SUPERVISORS ON DATE

CODE NUMBER(S)

01000-09110-444-52

\$28,821.36

69000-10500-444-69

\$6,326.64

Board Member Initials:

APPROVED

DENIED

Meeting Date:

16-67-11

Follow-up action:

AMOUNT CLAIMED \$ \$35,148.00

\$35,148.00

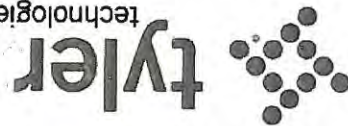
CLAIMANT SIGNATURE
(if applicable)

DEPARTMENT APPROVAL.

Invoice

Remittance:
 Tyler Technologies, Inc.
 (FEIN 75-2303920)
 P.O. Box 203556
 Dallas, TX 75320-3556

Empowering people who serve the public®



Questions:
 Tyler Technologies - Local Government
 Phone: 1-800-772-2260 Press 2, then 2
 Fax: 1-866-673-3274
 Email: ar@tylertech.com

Ship To: Story County
 Attn: Director Information Technology
 900 6th Street
 Nevada, IA 50201

Bill To: Story County
 Attn: Director Information Technology
 900 6th Street
 Nevada, IA 50201

Customer No.	Ord No	PO Number	Currency	Terms	Due Date
44700	79217	2012-0018 Amendment	USD	NET30	12/31/2017

Description
 Annual Subscription Fees: 01/01/2018-12/31/2018
 Extended Price 35,148.00

Milestone Details
 Description: Subscription Fees - Version 10 Property Tax Management
 Contract Amount: 175,740.00
 Percent Invoiced: 20%
 Amount Invoiced: 35,148.00

82% = IT
 18% = County Treasurer

****ATTENTION****
 Order your checks and forms from
 Tyler Business Forms at 877-749-2090 or
 tylerbusinessforms.com to guarantee
 100% compliance with your software.

Subtotal	35,148.00
Sales Tax	0.00
Invoice Total	35,148.00

email notice of renewal 12/20/17

Applicant License Application (LE0002103)

Name of Applicant: <u>Casey's Marketing Company</u>		
Name of Business (DBA): <u>Casey's General Store #2301</u>		
Address of Premises: <u>17005 Hwy 69</u>		
City <u>Gilbert</u>	County: <u>Story</u>	Zip: <u>50010</u>
Business	<u>(515) 233-5069</u>	
Mailing	<u>PO Box 3001</u>	
City <u>Ankeny</u>	State <u>IA</u>	Zip: <u>500218045</u>

Contact Person

Name	<u>JESSICA FISHER, Store Operations</u>	
Phone: <u>(515) 446-6404</u>	Email	<u>JESSICA.FISHER@caseys.com</u>

Classification Class E Liquor License (LE)

Term: 12 months

Effective Date: 02/28/2017

Expiration Date: 02/27/2018

Privileges:

Class B Native Wine Permit
Class C Beer Permit (Carryout Beer)
Class E Liquor License (LE)
Sunday Sales

~~APPROVED~~ **DENIED**
Board Member Initials: AS
Meeting Date: 12-27-17
Follow-up action: _____

Status of Business

BusinessType:	<u>Publicly Traded Corporation</u>		
Corporate ID Number:	<u>XXXXXXXXXX</u>	Federal Employer ID	<u>XXXXXXXXXX</u>

Ownership

42-0935283 Casey's General Stores, Inc.

First Name:	<u>42-0935283</u>	Last Name:	<u>Casey's General Stores, Inc.</u>	
City:	<u>Ankeny</u>	State:	<u>Iowa</u>	Zip: <u>50021-804</u>
Position:	<u>Owner</u>			
% of Ownership:	<u>100.00%</u>	U.S. Citizen:	<u>Yes</u>	

Michael Richardson

First Name:	<u>Michael</u>	Last Name:	<u>Richardson</u>	
City:	<u>Pleasant Hill</u>	State:	<u>Iowa</u>	Zip: <u>50327</u>
Position:	<u>President</u>			
% of Ownership:	<u>0.00%</u>	U.S. Citizen:	<u>Yes</u>	

Julia L. Jackowski

First Name:	<u>Julia L.</u>	Last Name:	<u>Jackowski</u>
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City: Urbandale

State: Iowa

Zip: 50322

Position: Secretary

% of Ownership: 0.00%

U.S. Citizen: Yes

James Pistillo

First Name: James

Last Name: Pistillo

City: Urbandale

State: Iowa

Zip: 50323

Position: Treasurer

% of Ownership: 0.00%

U.S. Citizen: Yes

JOHN SOUPENE

First Name: JOHN

Last Name: SOUPENE

City: ANKENY

State: Iowa

Zip: 50023

Position: VICE-PRESIDENT

% of Ownership: 0.00%

U.S. Citizen: Yes

Insurance Company Information

Insurance Company: Merchants Bonding Company

Policy Effective Date: 02/28/2017

Policy Expiration 01/01/1900

Bond Effective 2

Dram Cancel Date:

Outdoor Service Effective

Outdoor Service Expiration

Temp Transfer Effective

Temp Transfer Expiration Date:

Letting Date Mar. 20, 2018

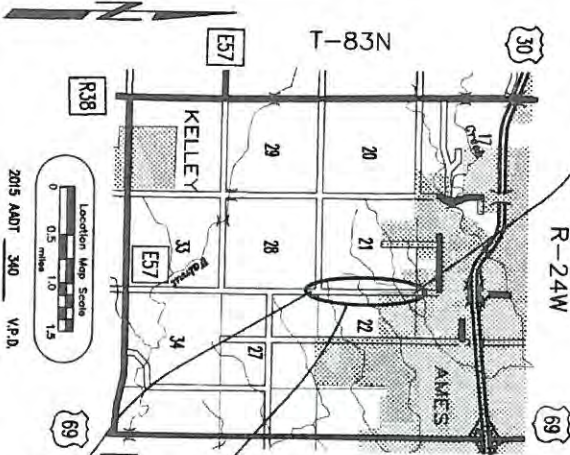
Proj. No. FM-C085(146)--55-85

ALL TRAFFIC CONTROL DEVICES SHALL BE PURCHASED, SPECIFIED, AND MAINTAINED BY THE CONTRACTOR.

COMMUNITY COLLEGIES WHOSE FACILITIES ARE SHOWN ON THE PLANS FOR SHOWN TO BE WITHIN THE CONSTRUCTION LIMITS SHALL BE NOTIFIED BY THE CONTRACTOR OF THE CONSTRUCTION STARTING DATE AND SUBSEQUENT WORK IN THE AREA.

ALLIANT ENERGY: 318-288-1315
CITY OF AMES UTILITY MAINTENANCE: 515-230-5162
CITY OF AMES ELECTRIC SERVICES: 515-230-5189
CITY OF AMES TRAFFIC: 515-231-3042
CENTRALINK: 720-578-8000
IOWA COMMUNICATIONS NETWORK: 515-725-4402
HUXLEY COMMUNICATIONS COOP: 515-597-2281
IOWA STATE UNIVERSITY: 515-294-2716
UNITE PRIVATE NETWORKS, LLC: 515-321-3336
XENIA RURAL WATER DISTRICT: 515-678-2117

CONTRACTOR SHALL CALL ONE CALL AT LEAST 48 HOURS PRIOR TO BEGINNING WORK. ONE CALL 1-800-292-6969



Location Map Scale



0 0.5 1.0 1.5 miles

2015 AADT 340 V.P.D.

Begin Project
Sta. -0+75.00

PROJECT LOCATION
ON 530TH AVE.; FROM
260TH ST., NORTH 0.7 MI.;
IN SECTIONS 21 AND 22 OF
T83N-R24W.

Scales: As Noted

CORPS OF ENGINEERS PERMIT

CONSTRUCT THIS PROJECT ACCORDING TO THE REQUIREMENTS OF U.S. ARMY CORPS OF ENGINEERS, DISTRICT OF THE COLUMBIA, PROJECT NO. COR-60-2-3072-10A. A COPY OF THIS PERMIT IS AVAILABLE FROM THE IDOW DOT WEBSITE. THE U.S. ARMY CORPS OF ENGINEERS RESERVES THE RIGHT TO VISIT THE SITE WITHOUT PRIOR NOTICE.
[HTTP://WWW.IDOWPERMITS.IDOWDOT.COM/A](http://www.idowpermits.idowdot.com/A)

FROM IT

This project is covered by the Iowa Department of Natural Resources NPDES General Permit No. 2. The contractor shall carry out the terms and conditions of General Permit No. 2 and the storm water pollution prevention plan which is a part of these contract documents. Refer to Section 2602 of the Standard Specifications for additional information.*

It was the sole structure responsible to provide waste crates or disposal sites for asbestos material (asbestos material or broken concrete) which is not desirable to be incorporated into the work involved on this project. These areas shall not impact subfloors or "skins Of The U.S." No payment for removal will be allowed for material located in these areas. No material shall be placed within the right-of-way, unless specifically stated in the plans.

Refer to Proposal Form for a list of applicable specifications.

On 530th Ave.; from 260th St., North 0.7 mi.; in Sections 21 and 22 of T83N-R24W.

IOWA
DEPARTMENT OF TRANSPORTATION
Highway Division
PLANS OF PROPOSED IMPROVEMENT ON THE
FARM-TO-MARKET ROAD SYSTEM
STORY COUNTY
PCC PAVEMENT-GRADE AND NEW

Project No. FM-C085(146)--55-85

Description

A.01	TITLE SHEET
C.01	QUANTITY INFORMATION SHEET
C.02	GENERAL NOTES SHEET
C.03	TYPICAL SECTION SHEET
C.04 - C.05	TABLES SHEETS
C.06 - C.07	POLLUTION PREVENTION PLAN SHEETS
D.01 - D.06	PLAN AND PROFILE SHEETS
R.01	EARTHWORK TABLES SHEET
V.01 - V.02	INTERSECTION DETAILS SHEET
W.01 - W.21	CROSS SECTION SHEETS

03-77-94

Div.	Location	Lin. Ft.	Miles
1	STA. -6473.00 TO STA. 39+50.00	4,023.00	0.782
1	STA. 1023+50.00 TO STA. 1023+34.89	84.89	0.016
	Total	4,108.89	0.778

Send Standard Wood Plugs singly to construction work on this project.

Number	Scope
DR-109	PIPE OILWERT (BEDDING AND BACKFILL)
DR-102	PIPE OILWERT (COVER AND CEMENT)
DR-103	PIPE OILWERT (INSTALLATION DETAILS)
DR-104	DEPTH OF COVER TABLES FOR CONCRETE AND CORRUGATED PIPE
DR-201	CONCRETE APRONS
DR-202	SUBDRAIN STANDARD (FARM TILE REPLACEMENT)
EC-201	SILT FENCE
ER-101	EMBANKMENT AND REBUILDING EMBANKMENTS
ER-102	ALLOWABLE PLACEMENT OF UNSATURABLE SOIL IN EMBANKMENTS
ER-201	RURAL ENTRANCE
PA-110	LINE TYPES
PA-120	STOP LINES AND ISLANDS
PA-101	JOINTS
PA-102	POC CLUMP DETAILS
PA-104	RAISED MEDIAN NOSE
SR-012	CIRCULAR AREA INTAKE
SR-004	CASTINGS FOR AREA INTAKES
TC-253	CASTINGS CLOSED TO TRAFFIC

Signature: David Wilson Date: 12-19-17

Witness of signing: I am this engineering student was prepared by me or
under the supervision of a duly Licensed Professional Engineer under the laws of the State of South
Carolina.

Signature: Darren E. Mason, P.E. 14651

By license renewed date is: December 31, 2018

Print name and address (enclosed by this circle)
(Circle submission unless specified laws)

Approved Story County
Board of Supervisors

Story County

Project Number: FM-C085(148)--55-85

Sheet No. A.01

Sheet Total: 38

QUANTITY INFORMATION SHEET

PROJ No. FM-C085(146)--55-85

ESTIMATED PROJECT QUANTITIES OF QUANTITIES (1 DIVISION PROJECT)

ITEM	ITEM CODE	ITEM	UNIT	TOTAL
1	2101-0850001	CLEARING AND GRUBBING	ACRE	9.9
2	2102-0425070	SPECIAL BACKFILL	TON	3,165.7
3	2102-2710070	EXCAVATION, CL. 10, ROADWAY AND BORROW	CY	9,842.0
4	2105-8425015	TOPSOIL, STRIP, SALVAGE AND SPREAD	CY	2,803.1
5	2121-7425010	GRAVULAR SHOULDER, TYPE A	TON	2,141.7
6	2123-7450020	SHOULDER FINISHING, EARTH	STA	80.6
7	2213-6745500	REMOVAL OF CURB	STA	0.06
8	2213-7100400	RELOCATION OF MAIL BOXES	STA	2.0
9	2301-1033090	STANDARD OR SLIP FORM PORTLAND CEMENT CONCRETE PAVEMENT, CLASS C, CLASS 3 DURABILITY, 9 IN.	SY	11,139.0
10	2315-8275025	SURFACING, DRIVEWAY, CLASS A CRUSHED STONE	TON	247.1
11	2402-6745650	REMOVAL OF EXISTING STRUCTURES	LS	1.00
12	2402-2720100	EXCAVATION, CLASS 20, FOR ROADWAY PIPE CULVERT	CY	143.0
13	2416-0100024	APPROXS, CONCRETE, 24 IN. DIA.	EACH	6.0
14	2416-0100048	APPROXS, CONCRETE, 48 IN. DIA.	EACH	6.0
15	2416-1180024	CULVERT, CONCRETE ROADWAY PIPE, 24 IN. DIA.	LF	150.0
16	2416-1180048	CULVERT, CONCRETE ROADWAY PIPE, 48 IN. DIA.	LF	146.0
17	2417-1040015	CULVERT, CORRUGATED METAL ENTRANCE PIPE, 15 IN. DIA.	LF	710.0
18	2435-0251218	INTAKE, SW-512, 18 IN.	EACH	7.0
19	2502-8212108	SUBDRAIN, PLASTIC PIPE, 6 IN.	LF	200.0
20	2502-8212108	SUBDRAIN, PLASTIC PIPE, 8 IN.	LF	80.0
21	2510-8745850	REMOVAL OF PAVEMENT	SY	59.7
22	2510-6750600	REMOVAL OF INTAKES AND UTILITY ACCESSSES	EACH	5.0
23	2512-1725256	CURB AND GUTTER, P.C. CONCRETE, 2.5 FT.	LF	209.4
24	2518-6910000	SAFETY CLOSURE	EACH	17.0
25	2526-8285000	CONSTRUCTION SURVEY	LS	1.00
26	2527-9263109	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	STA	111.76
27	2528-8445110	TRAFFIC CONTROL	LS	1.00
28	2533-4980005	MOBILIZATION	LS	1.00
29	2602-0000020	SILT FENCE	LF	712.0
30	2602-0000030	SILT FENCE FOR DITCH CHECKS	LF	1,584.0
31	2602-0000101	MAINTENANCE OF SILT FENCE OR SILT FENCE FOR DITCH CHECKS	LF	2,298.0
32	2602-0010010	MOBILIZATIONS, EROSION CONTROL	EACH	4.00
33	2602-0010020	MOBILIZATIONS, EMERGENCY EROSION CONTROL	EACH	4.00

ESTIMATE REFERENCE INFORMATION

- The entire site shall be cleared and grubbed from BOP to EOP and from ROW line to ROW line. Included in this bid item is 950 LF of woven fence removed and posted. NO burying of fencing materials will be allowed.
- Material is to be used on a pavement subbase. Quantity includes 3,136.1 Ton for machine and 3" paving pod on both sides and 29.6 Ton for intersection road. Contractor shall place special backfill using methods and precautions outlined in Section 2102. See roadway typical on Sheet C.03 for limits and dimensions.

ESTIMATE REFERENCE INFORMATION (cont.)

- Plan quantity is based on approximately 8,852.0 cy of fill (30% shrink factor) and 9,842.0 cy of cut. Of the fill amount, 6,374.4 cy is for roadway construction, 1,875.6 cy is for earth shoulders, and 802.0 cy is for embankment. See earthwork tables on Sheet R.01 for details.
- Item for the stockpiling and spreading of the topsoil. Contractor shall meet requirements for topsoil conservation practices. Topsoil to be spread to a minimum 4" on all disturbed areas from catch lines to the shoulders. Slopes to be finished smooth to allow for seeding. See Tabulation 103-4 on Sheet C.04 for quantity estimates and conditions. Finished grades on all slopes and ditches (excluding roadbed) shall be left low to accept topsoil thickness. It is assumed that the topsoil quantity is on-site.
- Item for the construction of granular shoulders from Sta. -0+75.0 to Sta. 39+50.0 both sides. Quantity was estimated using 140 pcf. See roadway typical on Sheet C.03 for details. Price bid shall include all labor, materials, and equipment necessary to construct granular shoulders.
- Item for finishing earth shoulders from Sta. -0+75.0 to Sta. 39+50.0. Quantity includes both left and right shoulder finishing. Class A compaction is required. See typical sections on Sheet C.03 for details. Contractor to use suitable on-site Class 10 Excavation to finish shoulders.
- Item for the removal of existing 24" wide curb terminations at the roundabout Sta. 78+52.2 Lt. and Rt. Bid price shall include curb sawcuts.
- See tabulation C.05 for mailbox relocation stationing. Item includes removal, relocation, and resetting of each mailbox. Contractor shall reuse each mailbox on a new 4"x4"x6" wood post. Front face of mailbox shall be even with the edge of shoulder and shall be 42" high. Posts shall be incidental to this bid item. Arrangements shall be made with each box holder and local postmaster prior to temporary relocation. Engineer will count each mailbox moved and contractor will be paid full unit price for each mailbox after final placement.
- Certified Plant Inspection (CPI) steel apply. Quantity includes 10,923.4 sy for machine paving, 128.1 sy for intersection and 78.88 sy for entrance inlet at Sta. 36+52.6 Rt. and 307.6 sy for roundabout transition. Contractor may use material method for determining time of opening. See typical section on Sheet C.03 and for more information.
- Item for entrance surfacing. See tabulation on Sheet C.05 for entrance itemization and stationing. Quantity was estimated at 140 pcf unit weight. Price bid shall include all material, equipment and labor necessary to place, compact, and finish entrance surfacing.
- Item for the removal and disposal of four existing roadway culverts. All structures shall become the property of the Contractor and removed from the project. Two of the structures consist of 3x2' concrete box culverts that have been extended with 30' metal pipe culverts. See Tabulation 110-2 on Sheet C.02 for details and notes on plan sheets.
- Item for excavation for roadway culvert pipe installations. See Tabulation 104-3 on Sheet C.04 for details. Suitable excavated material may be used to backfill the replacement culverts.
- Items for roadway pipe installations. Culverts shall be bedded with Class A crushed stone and backfilled up to D/2 with Class A crushed stone. All culvert sections shall be tied and wrapped. Type A Compaction required on all roadway pipe installations. See Tabulation 104-3 on Sheet C.04. Tying, wrapping, and the Class A crushed stone shall all be incidental to this item.
- Item for entrance pipe culverts. See Tabulation 102-3 on Sheet C.05 for itemization and stationing. Match inlet and outlet elevations to the new ditch grades.
- Item for furnishing and placing new SW-512 tie inlets. See Tabulation 104-5C on Sheet C.05 for details. Price bid shall include all materials, equipment, and labor necessary to place, grade, and finish SW-512 inlets.
- Item for furnishing and placing new tie: connecting the new SW-512 inlets to the old ties. See Tabulation 104-5C on Sheet C.05 for details. Road ties are common design features and are usually encountered during construction. Existing road ties that are found during the preliminary survey are identified on these plans; however, occasionally, existing road ties may not be found during the survey and only discovered during construction activities. This bid item includes all bends, fittings, and adapters.
- Items for the replacement of drainage the roadway crossings. Class A crushed stone shall be incidental to this item. See typical section on Sheet C.02 for details. Price bid shall include furnishing all materials, labor and equipment for replacing existing drainage the roadway crossings. All removed existing tie shall become the property of the Contractor. Plastic tie shall be non-perforated double-wall type. See Tabulation 104-5C on Sheet C.04 for details.

(Estimate Reference Information notes are continued on next sheet)

STORY COUNTY

FILE NUMBER & QUANTITY INFORMATION SHEET IS SENT-201-100-00000000

GENERAL NOTES SHEET

ESTIMATE REFERENCE INFORMATION (cont. from previous page)

ITEM NO.	DESCRIPTION
21.	Item includes 4.9 yd of existing 9" thick PCC at EOP and 54.8 yd of existing 6" thick PCC entrance paving at Sta. 36+52.6 RL. Item includes sawcuts.
22.	Item for removing and disposing of existing tile inlets that will not be re-incorporated into this project. See tabulation on Sheet C.04 for itemization. Price bid for this item shall include all labor and equipment necessary for the removal, hauling, and disposal of existing tile inlets.
23.	Contractor to may use slip-form or handwork methods to place standard curb, curb apron, and match for existing curb at EOP. Item includes a sloped median nose at EOP. See Standard Road Plans PV-102 for curb details, PV-104 for Sloped Nose details, and plan view on Sheet V.02 for layout and jointing details.
24.	See Tabulation 108-13A on Sheet C.04 for stationing.
25.	Item includes all grading and paving, setting blue tops, ROW atching, and resetting Section Corners (2) and property pins (4 parcels) and setting ROW pins (4 parcels) after paving. Item also includes any required documentation. Copies of documentation shall be provided to the Story County Secondary Roads Department upon completion. Digital surveying data files may be obtained by contacting Story County Secondary Roads at 515-382-7385 during office hours.
26.	See Tabulation 108-22 on Sheet C.05 for stationing and quantity.
27.	Item includes road closures on both 530th Ave. and 260th St. and hazard closures for roadway pipe culvert installations. See Standard Road Plans TC-252 and TC-418 for details.
28-30.	Erosion control measures shall be placed at the earliest practicable time. An Erosion Control Plan shall be submitted to the Engineer prior to the pre-construction meeting. See tabulations 100-17 and 100-18 on Sheet C.05 and Standard Road Plans EC-201 and EC-204 for details. The tabulations include estimated locations for placement of Silt Fence to address possible erosion during construction. Verify specific field adjustments and replacements.
31.	This item is included for cleanup and repair of the silt fence and silt fence for ditch checks during the project.
32-33.	Quantity is an estimate only. Contractor to be paid actual mobilizations and emergency mobilizations.

CONTROL POINTS INFORMATION

No.	Station	State Plane Coordinates			Description
		Offset	Northing	Easting	
1	0+00.00	0.00' Rt.	3455539.33	4883396.19	992.91 SW Corner, Sec. 22
2	26+37.01	0.00' Rt.	3458176.22	4883371.23	976.88 E½ Corner, Sec. 22
3	1000+00.00	0.00' Rt.	3455549.74	4880761.31	1010.64 N¼ Corner, Sec. 28
4	-26+41.08	0.00' Rt.	3452898.30	4883411.77	1001.26 W¼ Corner, Sec. 27

REMOVAL OF EXISTING STRUCTURES

No.	Location	Description	Remarks
1	2+94.3	24"x40" metal roadway pipe	
2	6+60.0	Typical 30"x40" metal roadway pipe	One is a 3'x2' RCB that has been extended with CURP, the other is only a CURP.
3	11+86.6	24"x40" metal roadway pipe	
4	24+05.1	30"x40" metal roadway pipe	This is a 5'x2' concrete box culvert that was extended with 30" metal pipes.
6	1025+86.6	24"x40" metal roadway pipe	

GENERAL NOTES:

Contractor to grade, improve drainage, widen shoulders, and pave 530th Avenue as per these plans. The prime Contractor shall be responsible for all erosion control measures and shall employ controls to reduce the exposure of the soils in the construction area adjacent to surface waters and wetlands, including planting and controlling erosion control measures during and after construction, and revegetation of all disturbed areas upon project completion.

Contractor shall maintain access to landowners during construction according to Article 1107.08 of the Standard Specifications. No extra payment shall be made for maintaining access.

CONTRACTOR'S WORK AREA:

The Contractor's work, and material storage area shall be defined by the Contractor and noted to the Engineer. Any area outside the Contractor's work, and material storage area that is disturbed by the Contractor shall be repaired to its original condition by the Contractor and no additional payment shall be made for this work.

UTILITY NOTES:

The Contractor shall call One Call at least 48 hours prior to beginning work. Utility companies found to be located within the construction area are listed on the title sheet of these plans. See Section 1107.15 of the Iowa DOT Standard Specifications For Highway And Bridge Construction, Series 2012, regarding utility related responsibilities.

EMERALD ASH BORER NOTE:

Any living, dead, cut or fallen material of the ash (Fraxinus spp.) including trees, nursery stock, logs, firewood, stumps, roots, branches, and composted or uncomposted saw chips can be freely moved within the yellow areas of the most recent Federal EAB Quarantine & Authorized Transit.

https://www.aphis.usda.gov/plant_health/plant_pest_info/emerald_ash_b/download/eab_quarantine_map.pdf.

Obtain appropriate Compliance Agreements from USDA APHIS PPQ prior to moving any of the above listed ash articles to areas outside the yellow zone on the map.

For questions, concerns, and general assistance, contact:

USDA APHIS PPQ, Iowa office, 515-414-3295

or

Iowa Department of Agriculture & Land Stewardship

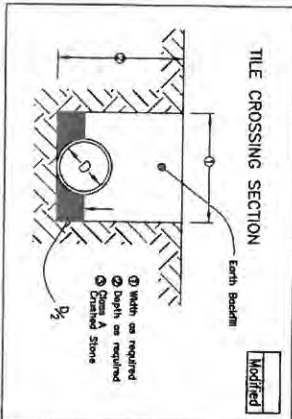
515-725-1470

Entomology@iowadagriculture.gov

INDIANA BAT HABITAT:

See Iowa DOT Specification 2101.01.

Story County will place and maintain detour signing, and apply seeding and mulching.



STORY COUNTY

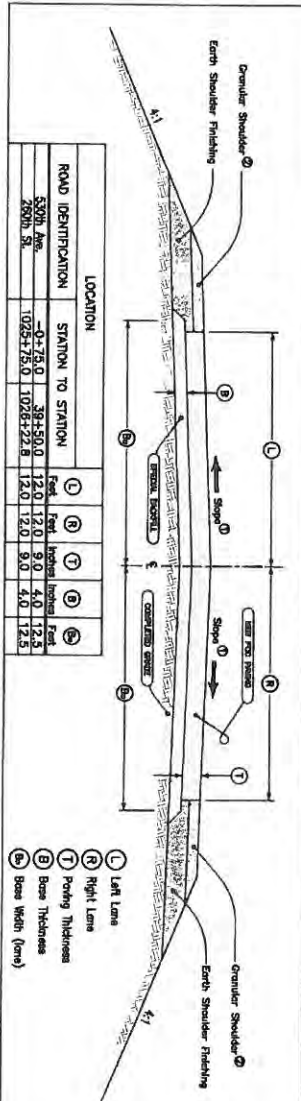
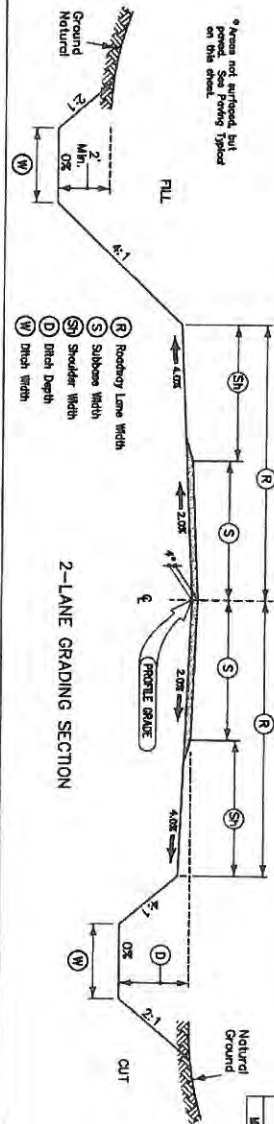
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Noted: existing structures may be modified or eliminated in order to accommodate proposed roadway or other location specifically designated by the Engineer.

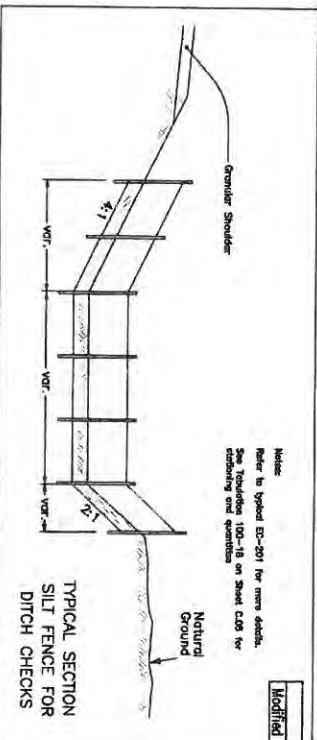
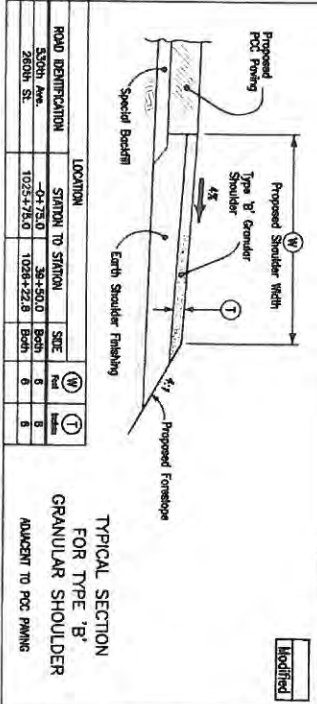
See Plan & Profile sheets for additional details of structures and backdrops.

LOCATION		DIMENSIONS							
ROAD IDENTIFICATION	STATION TO STATION	(R)	(S)	(S)	(D)	(W)			
530th Ave.	-0+75.0	21.5	15.0	6.5					
260th St.	1028+75.0	21.5	15.0	6.5					



Note: 1) Width of Right of Way to be established, except that the minimum width shall be 2.00 feet. 2) Refer to shoulder typology.

TYPICAL CROSS SECTION NEW PCC PAVING



DRAINAGE STRUCTURES BY ROAD CONTRACTOR

Length of unclassified pipe calculated is based on using Reinforced Concrete Pipe * Not a bid item ① Diameter or equivalent diameter ② UMC = Unclassified Pipe CWP = Corrugated Metal Pipe RCP = Reinforced Concrete Pipe LCP = Arch or Elliptical Low Clearance Pipe SARC = Steel Arch Pipe														
Drainage Area	Location	Type	Size	Kind of Pipe	Length New Const.	Bedding Class	Design Cover (H)	Comber* (DR102)	Apron Guard* (DR213)	Elbow* (DR141)	Diaphragm* (DR501)	Tee Section* (DR142)	"D" Section* (DR141)	Reducer*
Acres														
2+94.3	B	24	RCP	60	C	3.1	1	1						
6+60.0	B	48	RCP	104	C	1.6	2	2						
11+66.6	B	24	RCP	60	C	3.1	1	1						
24+03.1	B	48	RCP	42	C	0.8	1	1						
1026+88.6	B	24	RCP	40	C	1.6	1	1						
Flow Line Elevations														
Flow Line Elevations	Flow Line Elevations	Flow Line Elevations	Flow Line Elevations	Flow Line Elevations	Flow Line Elevations	Flow Line Elevations	Flow Line Elevations	Flow Line Elevations	Flow Line Elevations	Flow Line Elevations	Flow Line Elevations	Flow Line Elevations	Flow Line Elevations	Flow Line Elevations
985.89	984.91	981.83	981.22	985.77	985.23	972.35	972.15	980.59	980.81					
Dimensions														
Dimensions	Dimensions	Dimensions	Dimensions	Dimensions	Dimensions	Dimensions	Dimensions	Dimensions	Dimensions	Dimensions	Dimensions	Dimensions	Dimensions	Dimensions
24.6	27.4	25.0	27.0	26.1	27.9	20.5	21.5	20.4	18.6					
Skew														
Skew	Skew	Skew	Skew	Skew	Skew	Skew	Skew	Skew	Skew	Skew	Skew	Skew	Skew	Skew
RT	RT	RT	RT	RT	RT	RT	RT	RT	RT	RT	RT	RT	RT	RT
Dike														
Dike	Dike	Dike	Dike	Dike	Dike	Dike	Dike	Dike	Dike	Dike	Dike	Dike	Dike	Dike
Top	Top	Top	Top	Top	Top	Top	Top	Top	Top	Top	Top	Top	Top	Top
Elevation	Elevation	Elevation	Elevation	Elevation	Elevation	Elevation	Elevation	Elevation	Elevation	Elevation	Elevation	Elevation	Elevation	Elevation
28.8	29.0	27.4	27.9	27.4	27.9	23.9	23.9	23.9	23.9					
Class 20														
Class 20	Class 20	Class 20	Class 20	Class 20	Class 20	Class 20	Class 20	Class 20	Class 20	Class 20	Class 20	Class 20	Class 20	Class 20
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Flowable Mortar														
Flowable Mortar	Flowable Mortar	Flowable Mortar	Flowable Mortar	Flowable Mortar	Flowable Mortar	Flowable Mortar	Flowable Mortar	Flowable Mortar	Flowable Mortar	Flowable Mortar	Flowable Mortar	Flowable Mortar	Flowable Mortar	Flowable Mortar
Cy	Cy	Cy	Cy	Cy	Cy	Cy	Cy	Cy	Cy	Cy	Cy	Cy	Cy	Cy
Floodable Backfill*														
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Cy	Cy	Cy	Cy	Cy	Cy	Cy	Cy	Cy	Cy	Cy	Cy	Cy	Cy	Cy
Porous Backfill*														
Porous Backfill*	Porous Backfill*	Porous Backfill*	Porous Backfill*	Porous Backfill*	Porous Backfill*	Porous Backfill*	Porous Backfill*	Porous Backfill*	Porous Backfill*	Porous Backfill*	Porous Backfill*	Porous Backfill*	Porous Backfill*	Porous Backfill*
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Flooded Backfill														
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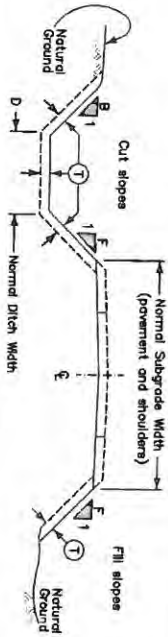
LIST OF SUBDRAIN WORK

No.	Station to Station	Type of Installation	Pipe	Aprons	Outlets	Connected Pipe	Trench Depth	Granular Material	Porous Backfill*	Class "A" Crushed Stone*	Remarks
1	23+26.9	DR-301 DR-302 DR-303	Concrete C.M.P. C.P. Coated, or Plastic	No.	No.	DR-201 DR-203 DR-304 DR-305	10.0	10.0		2.7	Tile crossing the roadway. Depth=4.5'
2	35+98.7	DR-302	Plastic	No.	No.	DR-121	10.0			2.7	Tile crossing the roadway. Depth=4.5'

REMOVAL OF INTAKES AND UTILITY ACCESSSES

No.	STATION	SIDE	REMARKS
1	2+98.9	RT	Remove and dispose of existing plastic manhole tile intake
2	6+60.2	RT	Remove and dispose of existing plastic manhole tile intake
3	11+66.6	RT	Remove and dispose of existing plastic manhole tile intake
4	23+26.2	RT	Remove and dispose of existing plastic manhole tile intake
5	23+26.2	RT	Remove and dispose of existing plastic manhole tile intake
6	23+26.2	RT	Remove and dispose of existing plastic manhole tile intake

TABULATION OF SPREADING TOPSOIL



Perform this work according to Section 2106. Prior to placing the topsoil, the area to be covered to a minimum depth of 3 inches. Appropriate adjustments have been made in the template quantities to reflect the final quantities of topsoil to be placed in the ditch bottom as detailed hereon.

TABULATION OF SAFETY CLOSURES

Note to Section 2106 of the Standard Specifications

STATION	ROAD QTY	HAZARD QTY	REMARKS
-1+00.0	1		Project Closure
2+94.3	2		Heard at roadway pipe installation
6+60.0	2		Heard at roadway pipe installation
11+66.6	2		Heard at roadway pipe installation
23+26.2	2		Heard at roadway pipe installation
24+03.1	2		Heard at roadway pipe installation
28+86.7	2		Heard at roadway pipe installation
1026+88.6	2		Heard at roadway pipe installation
38+50.0	1		Project Closure
1026+88.6	1		Project Closure
1026+88.6	1		Project Closure
3	14		TOTAL = 16.00

Placement Description				Topsoil Excavation Available From			
No.	Quantity	Location	Side	Slope	Amount	Station to Station	Remarks
1	932.2	-0+75	L	B, F, D	932.2	-0+75	From Stockpile
2	1,002.2	26+37	R	B, F, D	1,002.2	26+37	From Stockpile
3	446.4	26+37	L	B, F, D	446.4	26+37	From Stockpile
4	402.3	38+25	R	B, F, D	402.3	38+25	From Stockpile

110-12A
10-18-18

This Base PPP includes information on Roles and Responsibilities, Project Site Description, Controls, Maintenance Procedures, Inspection Requirements, Non-Storm Water Control, Potential Sources of Off Right-of-Way Pollution, and Definitions. This plan references other documents rather than repeating the information contained in the documents. A copy of this Base Pollution Prevention Plan, amended as needed per plan revisions or by contract modification, will be readily available for review.

the contractors shall conduct their operations in a manner that contrains pollutants, minimizes erosion, and prevents sediments from entering the water of the slide and leaving the Highway right-of-way. The prime contractor shall be responsible for compliance and implementation of the plan for their entire contract. This responsibility shall be further shared with subcontractors whose work is a source of potential pollution as defined in this PFP.

1. Prepares Base PPP included in the project plan
2. Prepares Notice of Intent (NOI) submitted to local agency
3. Signature authority on the Base PPP and NOI.

1. Inspected contractor/subcontractors are co-permittees with Story County and will sign a certification statement, referring to the permittee's obligations under the Clean Water Act and the National Pollutant Discharge Elimination Act (NPDES) permit, and the storm or erosion controls or involved in land disturbing project. Inspected contractor/subcontractors are anyone responsible for sedimentation or erosion control on a project.
2. Submit an Erosion Control Implementation Plan (ECP) according to Specifications Section 2602 and any additional plan notes.
3. Inspected contractor/subcontractors are required to submit a copy of the ECP to the permittee.
4. Supervise and implement good housekeeping practices.
5. Conduct joint required inspections of the site with inspection staff.
6. Comply with training and certification requirements of Specifications Section 2602.
7. Submit a copy of the ECP to the permittee.
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98. Submit a copy of the ECP to the permittee.
99. Submit a copy of the ECP to the permittee.
100. Submit a copy of the ECP to the permittee.

- B. The ppp covers approximately 8,600 tonnes of the construction project on Sishon way, controlled by the government. The ppp covers approximately 8,600 tonnes of the construction project on Sishon way, controlled by the government. The ppp covers approximately 8,600 tonnes of the construction project on Sishon way, controlled by the government.
- C. The ppp is located in an area of 2 and associated Carbon and Webster. The estimated required average runoff coefficient for this ppp after completion will be 0.32.
- D. South West Sishon way - Multiple sources of information compile the basic storm water site map including: Drainage patterns - Plan and Profile, photos and Situation drawings.

- [illegible]

sequence of major activities and for each activity defines the control measure and the timing during the construction process that the measure will be implemented.

Section 2601 and 2602 of the Standard Specifications define requirements to implement erosion and sediment control measures. Erosion and sediment control measures for construction projects may vary from the flow plan and orientation of the plan as it is documented by the engineer. Erosion and sediment control measures and treatment control plans may be required as determined by the inspector and/or contractor during these water monitoring activities. If the work involved is not applicable to any contract item, the work will be paid for according to Article 109.03 paragraph 8.

EROSION AND SEDIMENT CONTROLS

- 1) The project will stabilize the existing vegetation or natural buffers in portions of the site where construction activities have occurred.
- 2) Stabilization practices shall be initiated as soon as practicable in portions of the site where construction activities have occurred or temporarily or permanently ceased.
- 3) Temporary stabilizing seeding shall be completed on the disturbed areas as constructed; if construction activity is not planned to occur in a disturbed area for at least 21 days, the area shall be stabilized by temporary seeding or mulching.
- 4) Permanent and Temporary Stabilization practices to be used for this project are located in the Estimated Project Impacts (100-02, 100-1A, or 100-1C) and Eutricha Reclamation Plan. The project shall be constructed in accordance with the plan. Turf/erosion damage detection or construction of the practices to be used on this project are referenced in the Standard Road Plans Collection.
- 5) Removal of existing vegetation with right-of-way or easements will not on vegetative buffer strips.

110-12A
10-18-10

- a) Structural provisions will be implemented to divert flows from exposed soils and ditches or otherwise limit runoff and the provide 2500 cubic feet of storage per acre defined or established structural provisions may include, but not be limited to, water control structures, levees, floodwalls, and controls to direct storm water to designated areas.
- b) Structural provisions to be used for this project can be located in the Estimated Project Quantities (100-04), 100-1a, or 100-1b, as applicable. Structural provisions (100-04) located in the C areas of the plan, as well as all other item or specific inundation. Typical drawings for this project can be found on the B sheets of the plan or are referenced in the Standard Flood Plans inundation.
- c) Storm Water Management during the construction phase to control pollutants in storm water discharge that will occur after construction operations have been completed. The project will include provisions to control pollutants, including, but not limited to, silt fences and staking length of outlet channel as necessary to provide a non-erosion velocity for storm structure to other than specific inundation. Storm water management (100-44) located on the C sheets of the plan, as well as all other item or specific inundation. The installation of these devices may be subject to Section 104 of the Clean Water Act.

- a. Contractor shall use of unused construction materials and construction materials wastes shall comply with applicable state and local waste disposal, recycling laws, or applicable state regulations. In the event of a conflict with other governmental orders, the more restrictive law, rules or regulations shall apply.
- b. Material shall be segregated, stored, and disposed in accordance with applicable state and local laws.
- c. Material shall be stored in a manner that minimizes dust, noise, and odors.
- d. Material Delivery, Storage and Use - Implement procedures to prevent discharge of construction materials at self and nearby streets, and lawns.
- e. Stockpile Management - Install controls to reduce or eliminate discharge of storm water from stockpiles of soil and bedding.
- f. Waste Disposal - Do not discharge any materials, including building materials, into waters of the state, except as authorized by a Section 404 permit.

- e) **Concrete Readiness and Workshop - Mortar** - Develops temporary concrete manual facilities for fixing cast concrete structures. Provides directions to truck drivers where designated mortar facilities are located. Designated mortar areas must be marked with yellow flagging. Mortar facilities must be located in areas where trucks can safely turn around to ensure these facilities do not interfere with normal traffic flow.
 - 7) **Concrete Growing/Driving Slurry** - Do not discharge slurry to a waterbody or storm drain. Slurry may be applied on sidewalks and equipment storage and maintenance areas - Perform an area flushing and maintenance in accordance with the Department's concrete disposal procedures.
 - a) **Equipment and Equipment Storage** - Store equipment and other debris in proper disposal and maintenance in accordance with the Department's concrete disposal procedures and ground water from rain water.
 - b) **Other Management** - Ensure employee properly disposes of their waste.
 - d) **Personnel** are also to be taken to prevent, secure, removal of discharging discharge point.
- During the course of the project, it is possible that situations will arise where unknown materials will be encountered. Upon the occurrence of this, the following actions should be taken:
1. **Approach** the situation with caution.
 2. **Identify** the situation.
 3. **Assess** the situation.
 4. **Report** the situation to the appropriate authority.
 5. **Follow** the instructions of the appropriate authority.
 6. **Document** the situation.
 7. **Review** the situation.
 8. **Take** the appropriate action.
 9. **Follow** the instructions of the appropriate authority.
 10. **Document** the situation.
 11. **Review** the situation.
 12. **Take** the appropriate action.
 13. **Follow** the instructions of the appropriate authority.
 14. **Document** the situation.
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the contractor is required to maintain all temporary steele and shoring control measures in proper working order, including clearing, splicing, or replacing them throughout the contract period. This shall begin when the fixtures have lost 50% of their capacity.

- Inspections shall be made jointly by the contractor and the contracting authority at least once every seven calendar days. Storm water monitoring inspections will include:
1. Name and qualifications of the personnel conducting the inspection.
 2. Summary of the scope of the inspection.
 3. Name and qualifications of the personnel with detailed access for the effectiveness in preventing impacts to receiving waters.
 4. Storm sewers and treatment control measures which disturbed areas for the effectiveness in preventing impacts to receiving waters.
 5. Storm sewers and treatment control measures which disturbed areas for the effectiveness in preventing impacts to receiving waters.
 6. Identity corrective actions required to maintain or improve storm water management and sediment control measures.
 7. Storm water monitoring inspection reports in the approved log. Incorporate any additional erosion and sediment control measures required to maintain or improve storm water management and sediment control measures.
 8. Immediately taken corrective actions on all deficiencies found within 3 calendar days of the inspection.

the various materials (i.e., impelled and rebounded substrate) and slope droths. The velocity of the discharges from these features may be controlled by the use of pitto blocks. Once a stone, gravel or other appropriate materials. This also includes uncombusted groundbeater from dewatering operations, which will be controlled as discussed in Section III of the PPP.

- POTENTIAL SOURCES OF OFF-RIGHT-OF-WAY (ROW) POLLUTION (i.e., sediment, and other forms of pollution) may be transported onto highway right-of-way (ROW) as a result of a storm event. Potential sources of pollution located outside highway ROW are beyond the control of this PPP. Pollution within highway ROW will be conveyed and controlled per this PPP.

Amended PPP – May include Plan Revisions or Contract Modifications for new items, alarm water monitoring inspection reports, and Notebook entries made by the inspector.

- Signature Authority** – Representative from Designer, Contractor/Subcontractor, or RCE/inspector authorized to sign various storm water documents.

POLLUTION PREVENTION PLAN SHEET

PROJ No. FM-C085(146)--55-85

POLLUTION PREVENTION PLAN

110-12A
10-18-18

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information and that I am personally submitting it, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Darren Moon
Signature

DARREN MOON
Printed or Typed Name

Signature

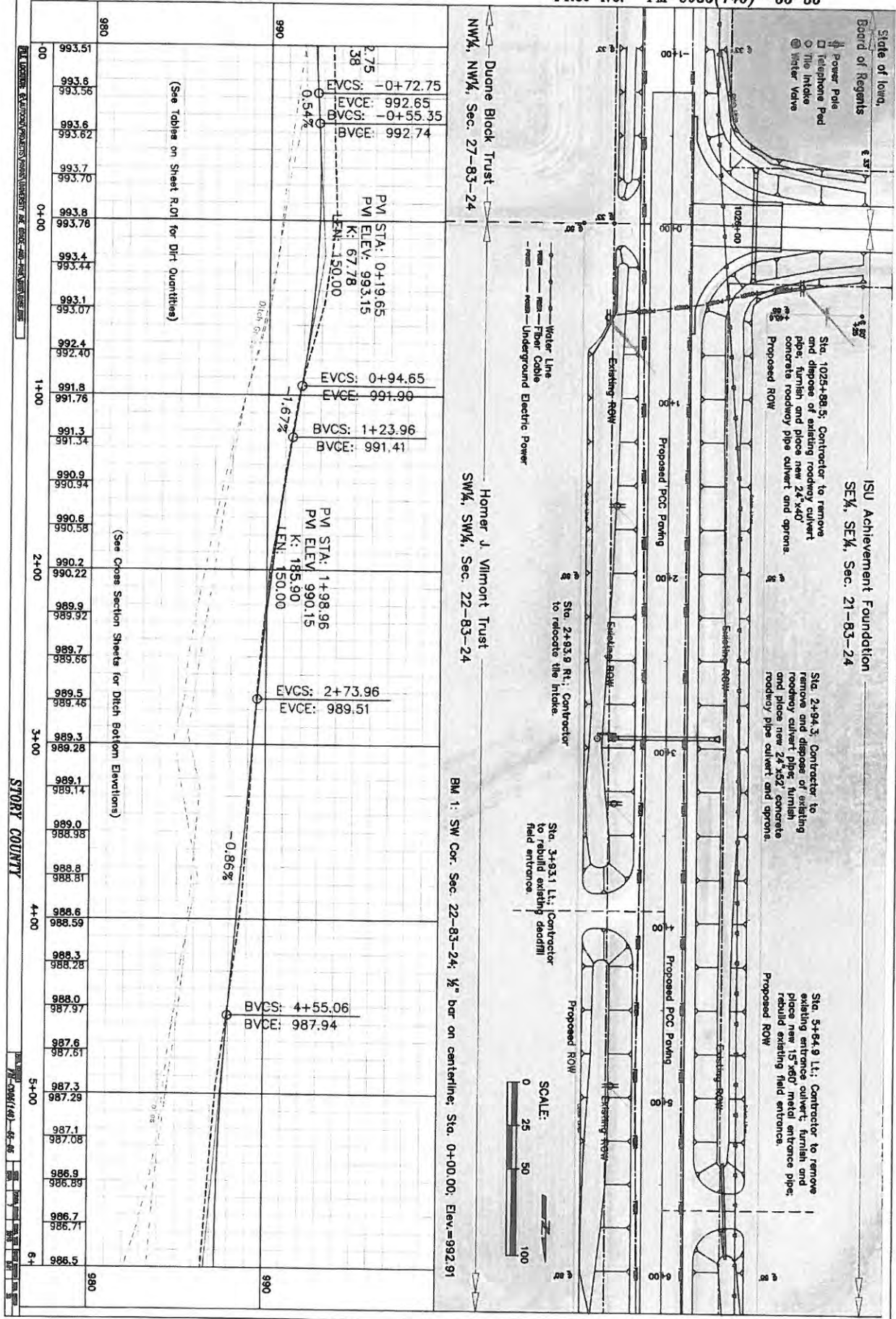
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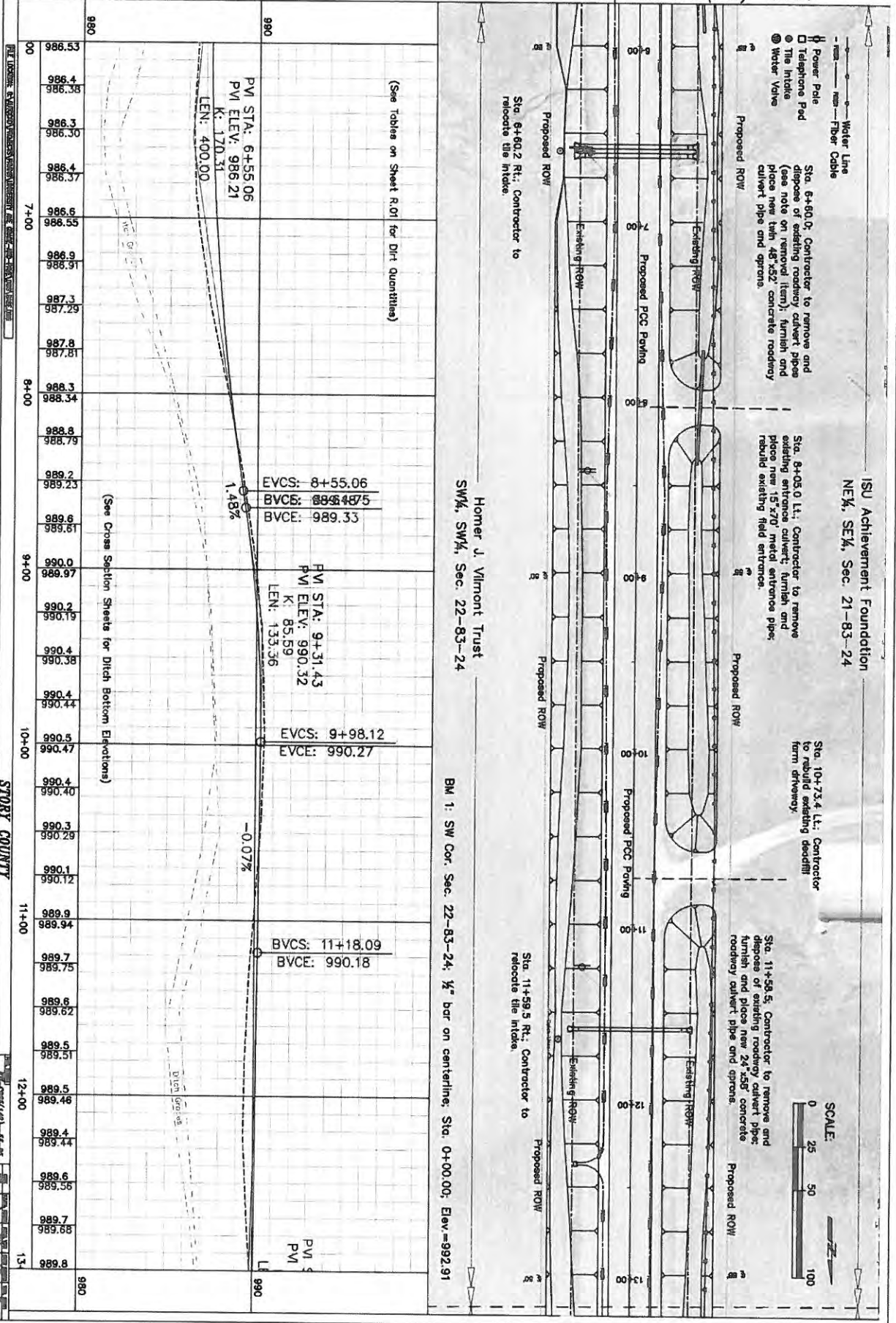
STORY COUNTY

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APPROVED BY: [Signature]

PROJ No. FM-C085(146)--55-85



PLAN AND PROFILE SHEET



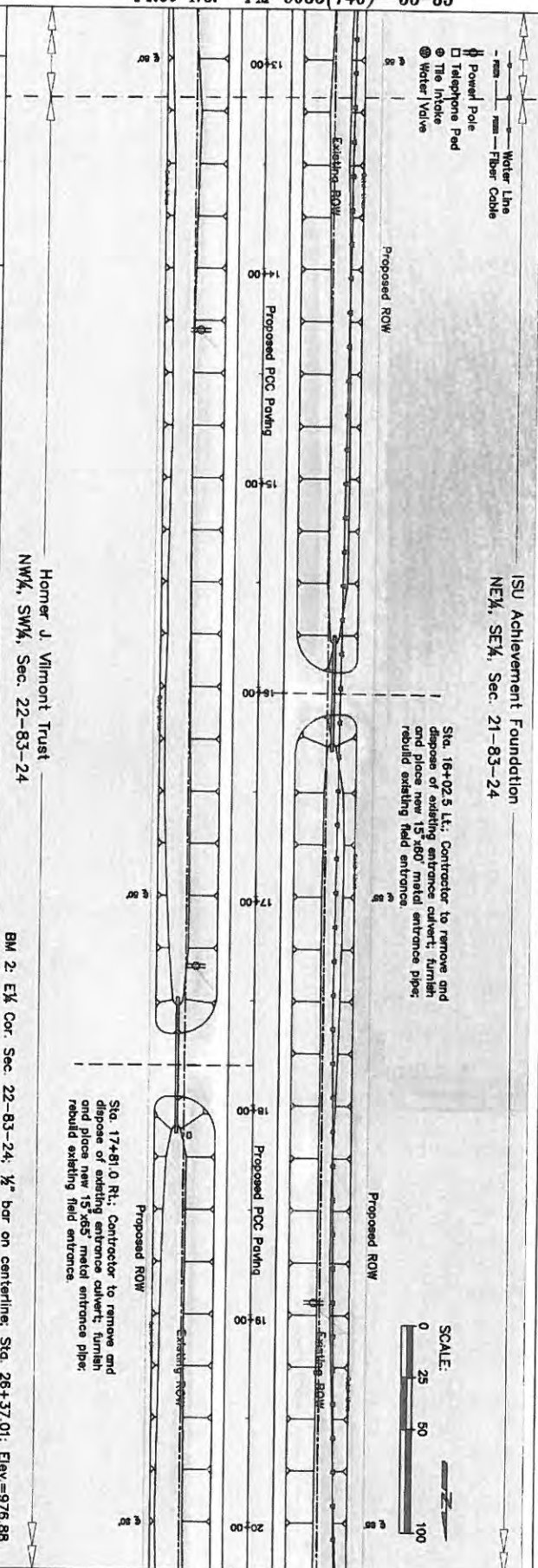
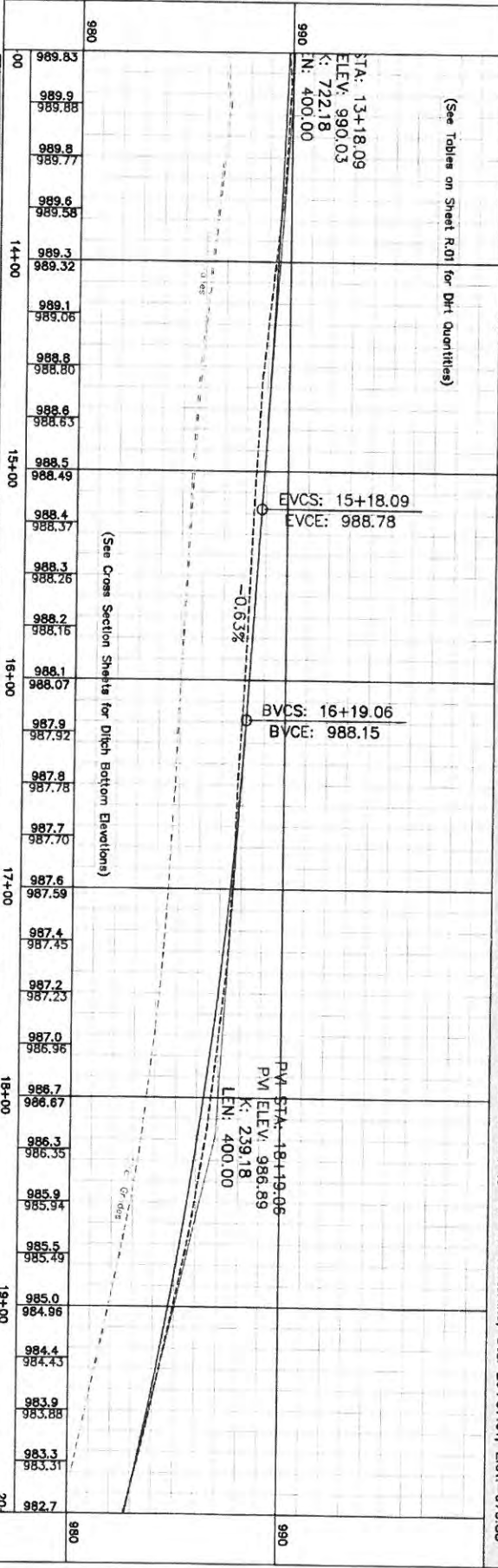
PLAN AND PROFILE SHEET

PROJ No. FM-C085(146)--55-85

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STORY COUNTY

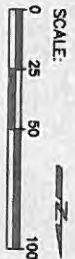
FM-C085(146)--55-85



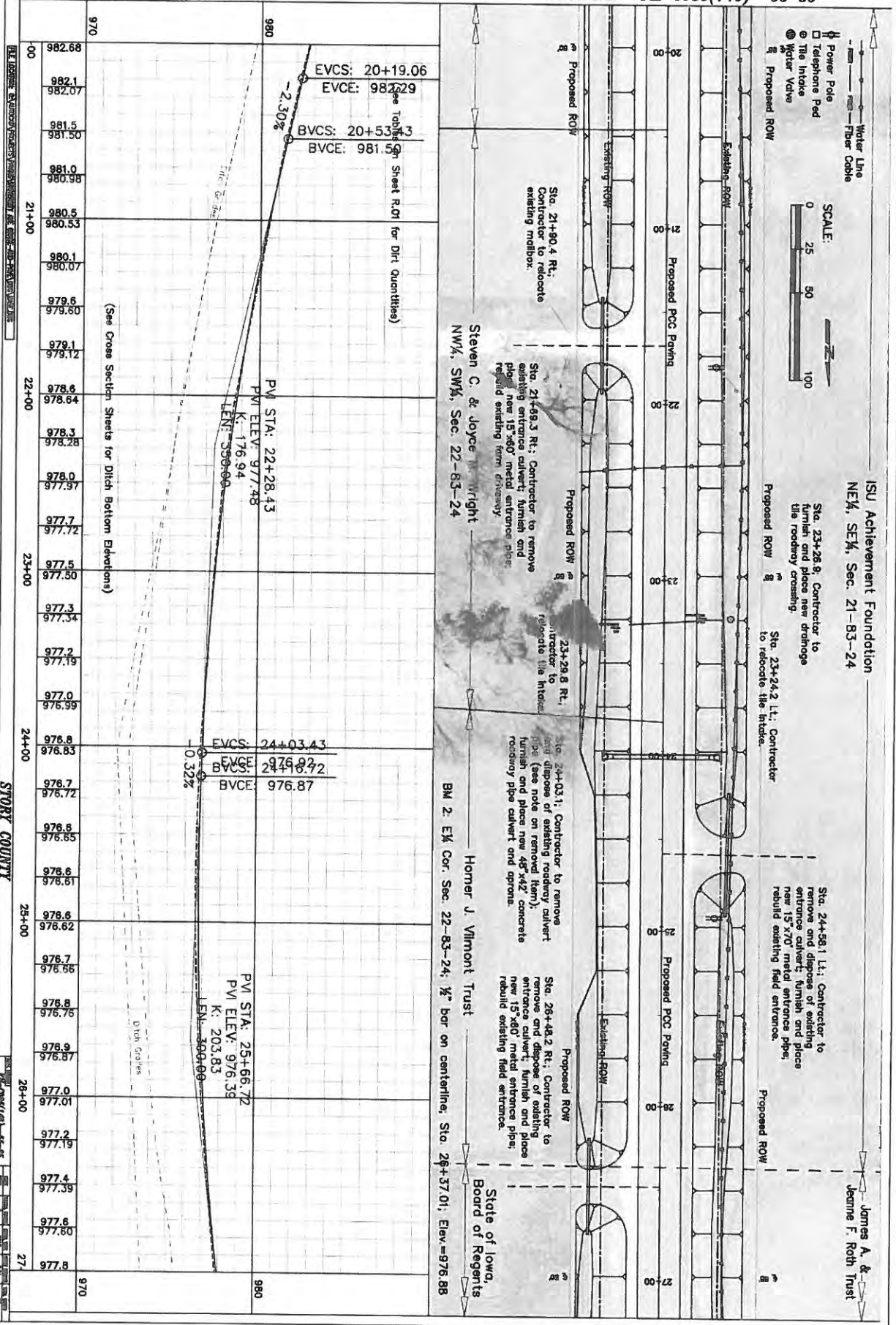
ISU Achievement Foundation
NE 1/4, SE 1/4, Sec. 21-83-24

Sta. 16+02.5 LT: Contractor to remove and dispose of existing entrance culvert, furnish and place new 15\"/>

Sta. 17+81.0 RT: Contractor to remove and dispose of existing entrance culvert, furnish and place new 15\"/>

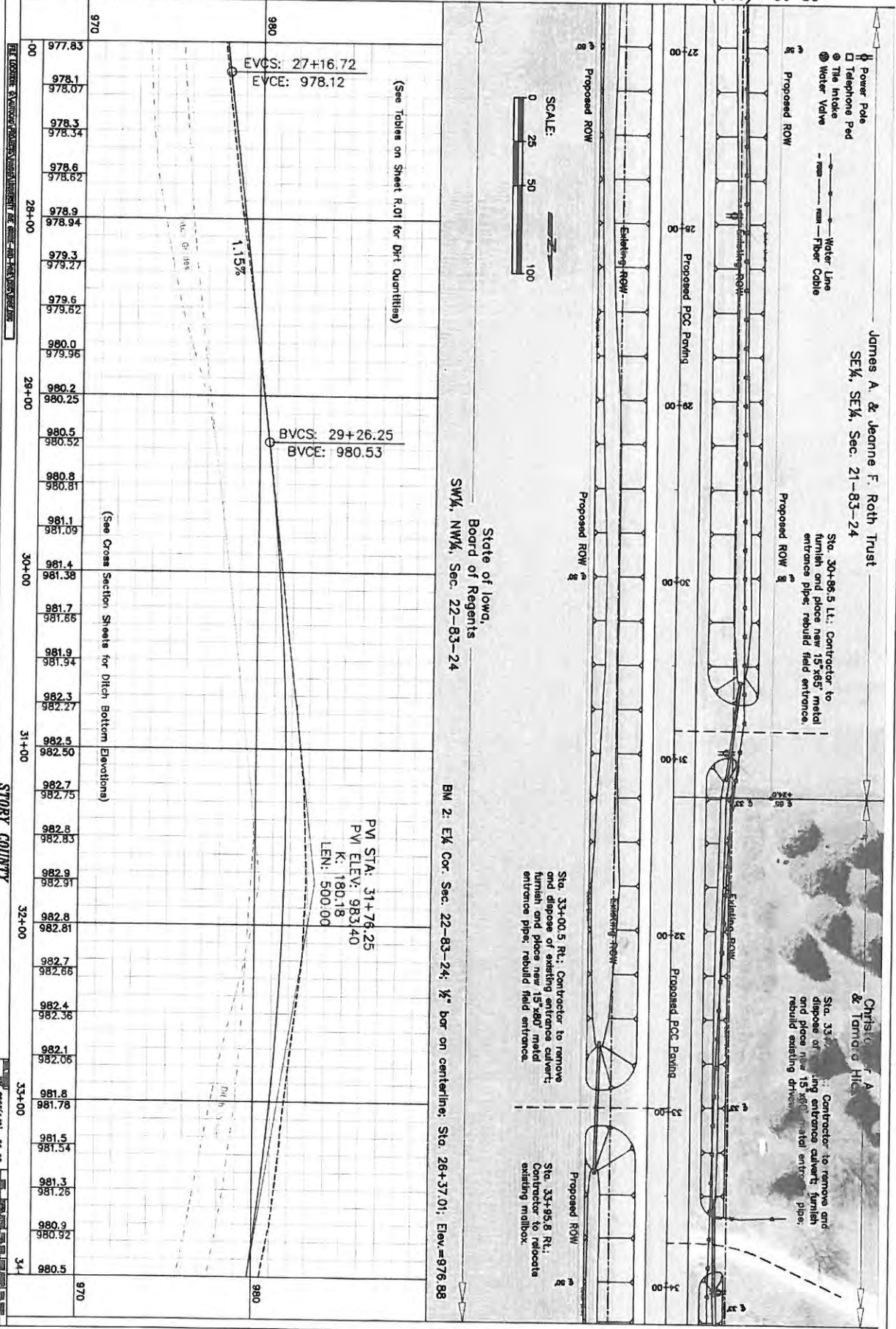


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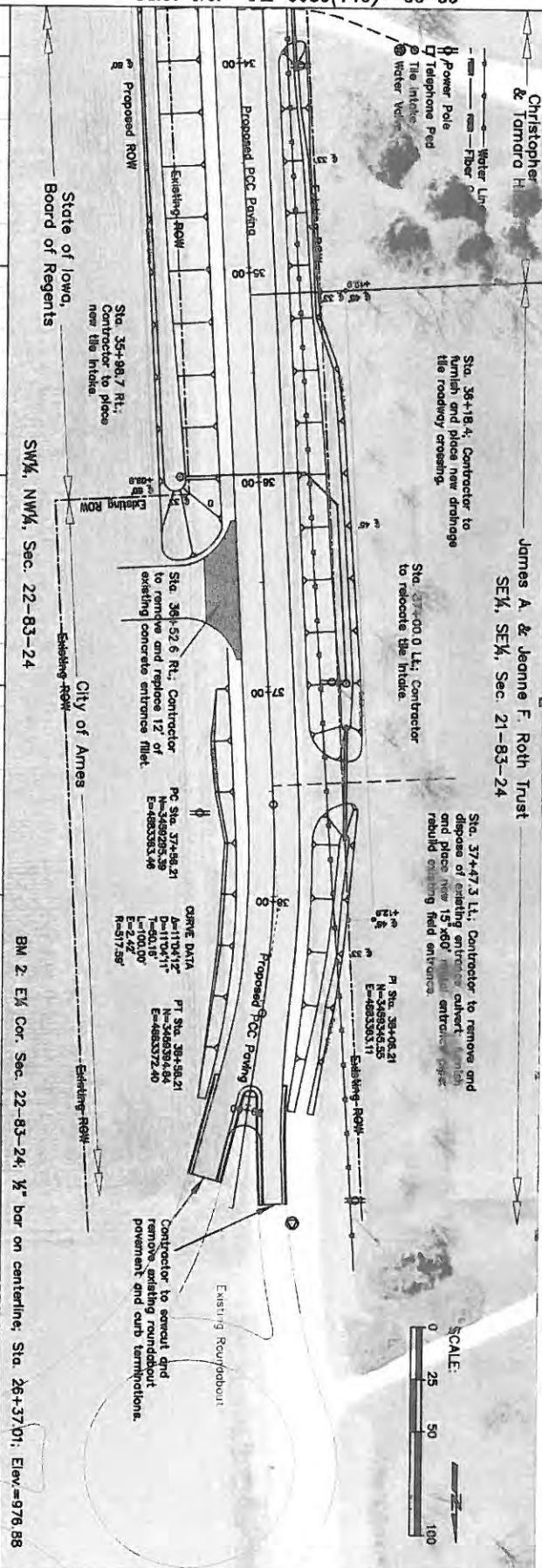
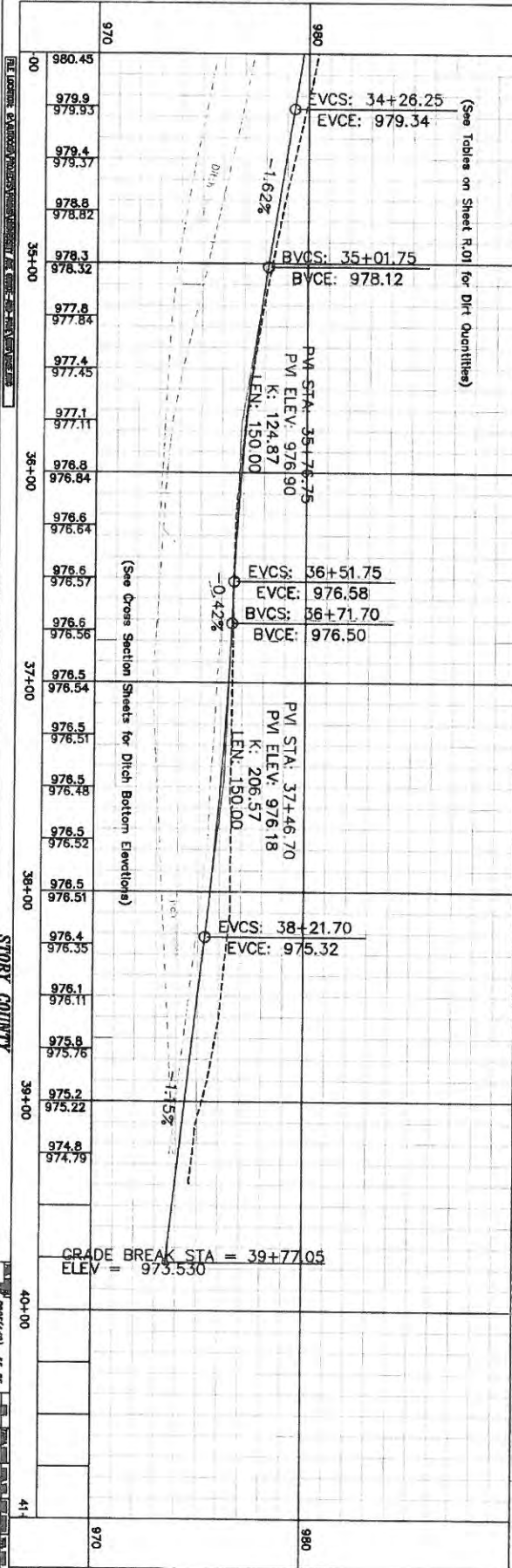
PLAN AND PROFILE SHEET

PROJ No. FM-C085(146)--55-85



PLAN AND PROFILE SHEET

PROJ No. FM-C085(146)--55-85



STORY COUNTY

FM-C085(146)--55-85

[illegible]

Total Volume Table									
Station	IP	Flow	Col Area	IP Volume	Col Volume	Conversion	IP Vol	Conversion	Col Vol
44-00-00	15.35	177.35	8.31	14.83			148.35		448.35
44-10-00	15.44	177.35	16.79						516.70
44-15-00	23.10	113.65	25.15	107.20					516.70
44-20-00	23.10	104.85	25.15			775.14			1492.85
45-00-00	30.40	80.71	40.17	83.50					1633.40
45-05-00	23.30	70.51	43.35	70.51					1774.35
45-10-00	40.31	63.40	63.40	63.40					2732.85
45-15-00	62.40	63.40	67.91	30.19					3013.40
45-20-00	119.33	4.33	130.20	110.45					3533.40
45-25-00	146.41	14.41	150.80	130.35					3727.44
45-30-00	172.20	14.41	179.33	151.31					3978.44
45-35-00	182.00	14.41	186.43	161.31					4134.41
45-40-00	182.00	14.41	186.43	161.31					4295.41
45-45-00	182.00	14.41	186.43	161.31					4456.41
45-50-00	182.00	14.41	186.43	161.31					4617.41
45-55-00	182.00	14.41	186.43	161.31					4778.41
45-60-00	182.00	14.41	186.43	161.31					4939.41
45-65-00	182.00	14.41	186.43	161.31					5100.41
45-70-00	182.00	14.41	186.43	161.31					5261.41
45-75-00	182.00	14.41	186.43	161.31					5422.41
45-80-00	182.00	14.41	186.43	161.31					5583.41
45-85-00	182.00	14.41	186.43	161.31					5744.41
45-90-00	182.00	14.41	186.43	161.31					5905.41
45-95-00	182.00	14.41	186.43	161.31					6066.41
46-00-00	182.00	14.41	186.43	161.31					6227.41
46-05-00	182.00	14.41	186.43	161.31					6388.41
46-10-00	182.00	14.41	186.43	161.31					6549.41
46-15-00	182.00	14.41	186.43	161.31					6710.41
46-20-00	182.00	14.41	186.43	161.31					6871.41
46-25-00	182.00	14.41	186.43	161.31					7032.41
46-30-00	182.00	14.41	186.43	161.31					7193.41
46-35-00	182.00	14.41	186.43	161.31					7354.41
46-40-00	182.00	14.41	186.43	161.31					7515.41
46-45-00	182.00	14.41	186.43	161.31					7676.41
46-50-00	182.00	14.41	186.43	161.31					7837.41
46-55-00	182.00	14.41	186.43	161.31					7998.41
46-60-00	182.00	14.41	186.43	161.31					8159.41
46-65-00	182.00	14.41	186.43	161.31					8320.41
46-70-00	182.00	14.41	186.43	161.31					8481.41
46-75-00	182.00	14.41	186.43	161.31					8642.41
46-80-00	182.00	14.41	186.43	161.31					8803.41
46-85-00	182.00	14.41	186.43	161.31					8964.41
46-90-00	182.00	14.41	186.43	161.31					9125.41
46-95-00	182.00	14.41	186.43	161.31					9286.41
47-00-00	182.00	14.41	186.43	161.31					9447.41
47-05-00	182.00	14.41	186.43	161.31					9608.41
47-10-00	182.00	14.41	186.43	161.31					9769.41
47-15-00	182.00	14.41	186.43	161.31					9930.41
47-20-00	182.00	14.41	186.43	161.31					10091.41
47-25-00	182.00	14.41	186.43	161.31					10252.41
47-30-00	182.00	14.41	186.43	161.31					10413.41
47-35-00	182.00	14.41	186.43	161.31					10574.41
47-40-00	182.00	14.41	186.43	161.31					10735.41
47-45-00	182.00	14.41	186.43	161.31					10896.41
47-50-00	182.00	14.41	186.43	161.31					11057.41
47-55-00	182.00	14.41	186.43	161.31					11218.41
47-60-00	182.00	14.41	186.43	161.31					11379.41
47-65-00	182.00	14.41	186.43	161.31					11540.41
47-70-00	182.00	14.41	186.43	161.31					11701.41
47-75-00	182.00	14.41	186.43	161.31					11862.41
47-80-00	182.00	14.41	186.43	161.31					12023.41
47-85-00	182.00	14.41	186.43	161.31					12184.41
47-90-00	182.00	14.41	186.43	161.31					12345.41
47-95-00	182.00	14.41	186.43	161.31					12506.41
48-00-00	182.00	14.41	186.43	161.31					12667.41

Total Volume Table									
Station	Flow Rate	Out Area	Flow Volume	Est. Volume	Displacement	Est. Vol.	Displacement	Est. Vol.	Est. Volume
01-01-01	0.28	10.00	0.27	10.00	0.00	0.00	0.00	0.00	0.00
01-01-02	0.28	10.00	0.27	10.00	0.00	0.00	0.00	0.00	0.00
01-01-03	0.28	10.00	0.27	10.00	0.00	0.00	0.00	0.00	0.00
01-01-04	0.28	10.00	0.27	10.00	0.00	0.00	0.00	0.00	0.00
01-01-05	0.28	10.00	0.27	10.00	0.00	0.00	0.00	0.00	0.00
01-01-06	0.28	10.00	0.27	10.00	0.00	0.00	0.00	0.00	0.00
01-01-07	0.28	10.00	0.27	10.00	0.00	0.00	0.00	0.00	0.00
01-01-08	0.28	10.00	0.27	10.00	0.00	0.00	0.00	0.00	0.00
01-01-09	0.28	10.00	0.27	10.00	0.00	0.00	0.00	0.00	0.00
01-01-10	0.28	10.00	0.27	10.00	0.00	0.00	0.00	0.00	0.00
01-01-11	0.28	10.00	0.27	10.00	0.00	0.00	0.00	0.00	0.00
01-01-12	0.28	10.00	0.27	10.00	0.00	0.00	0.00	0.00	0.00
01-01-13	0.28	10.00	0.27	10.00	0.00	0.00	0.00	0.00	0.00
01-01-14	0.28	10.00	0.27	10.00	0.00	0.00	0.00	0.00	0.00
01-01-15	0.28	10.00	0.27	10.00	0.00	0.00	0.00	0.00	0.00
01-01-16	0.28	10.00	0.27	10.00	0.00	0.00	0.00	0.00	0.00
01-01-17	0.28	10.00	0.27	10.00	0.00	0.00	0.00	0.00	0.00
01-01-18	0.28	10.00	0.27	10.00	0.00	0.00	0.00	0.00	0.00
01-01-19	0.28	10.00	0.27	10.00	0.00	0.00	0.00	0.00	0.00
01-01-20	0.28	10.00	0.27	10.00	0.00	0.00	0.00	0.00	0.00
01-01-21	0.28	10.00	0.27	10.00	0.00	0.00	0.00	0.00	0.00
01-01-22	0.28	10.00	0.27	10.00	0.00	0.00	0.00	0.00	0.00
01-01-23	0.28	10.00	0.27	10.00	0.00	0.00	0.00	0.00	0.00
01-01-24	0.28	10.00	0.27	10.00	0.00	0.00	0.00	0.00	0.00
01-01-25	0.28	10.00	0.27	10.00	0.00	0.00	0.00	0.00	0.00
01-01-26	0.28	10.00	0.27	10.00	0.00	0.00	0.00	0.00	0.00
01-01-27	0.28	10.00	0.27	10.00	0.00	0.00	0.00	0.00	0.00
01-01-28	0.28	10.00	0.27	10.00	0.00	0.00	0.00	0.00	0.00
01-01-29	0.28	10.00	0.27	10.00	0.00	0.00	0.00	0.00	0.00
01-01-30	0.28	10.00	0.27	10.00	0.00	0.00	0.00	0.00	0.00
01-01-31	0.28	10.00	0.27	10.00	0.00	0.00	0.00	0.00	0.00
01-01-32	0.28	10.00	0.27	10.00	0.00	0.00	0.00	0.00	0.00
01-01-33	0.28	10.00	0.27	10.00	0.00	0.00	0.00	0.00	0.00
01-01-34	0.28	10.00	0.27	10.00	0.00	0.00	0.00	0.00	0.00
01-01-35	0.28	10.00	0.27	10.00	0.00	0.00	0.00	0.00	0.00
01-01-36									

Station	PI	Ave	Std. Ave	PI	Volume	Std. Volume	Countdown (s)	Std. Countdown	Std. Wt
14460400	32.83	70.01	10.44	83.02	7789.87	3761.44	3761.44	87.42	87.42
14460401	42.53	71.83	10.87	81.26	7820.19	3763.44	3763.44	86.71	86.71
14460402	44.87	63.33	10.26	63.03	7820.19	3763.44	3763.44	86.71	86.71
14460403	42.87	64.43	10.29	61.46	7820.19	3763.44	3763.44	86.71	86.71
14460404	52.79	63.44	10.37	69.37	7820.19	3763.44	3763.44	86.71	86.71
14460405	52.82	63.43	10.35	69.37	7820.19	3763.44	3763.44	86.71	86.71
14460406	57.29	63.43	10.35	69.37	7820.19	3763.44	3763.44	86.71	86.71
14460407	52.79	63.44	10.36	69.37	7820.19	3763.44	3763.44	86.71	86.71
14460408	52.79	63.44	10.36	69.37	7820.19	3763.44	3763.44	86.71	86.71
14460409	52.79	63.44	10.36	69.37	7820.19	3763.44	3763.44	86.71	86.71
14460410	52.79	63.44	10.36	69.37	7820.19	3763.44	3763.44	86.71	86.71
14460411	52.79	63.44	10.36	69.37	7820.19	3763.44	3763.44	86.71	86.71
14460412	52.79	63.44	10.36	69.37	7820.19	3763.44	3763.44	86.71	86.71
14460413	52.79	63.44	10.36	69.37	7820.19	3763.44	3763.44	86.71	86.71
14460414	52.79	63.44	10.36	69.37	7820.19	3763.44	3763.44	86.71	86.71
14460415	52.79	63.44	10.36	69.37	7820.19	3763.44	3763.44	86.71	86.71
14460416	52.79	63.44	10.36	69.37	7820.19	3763.44	3763.44	86.71	86.71
14460417	52.79	63.44	10.36	69.37	7820.19	3763.44	3763.44	86.71	86.71
14460418	52.79	63.44	10.36	69.37	7820.19	3763.44	3763.44	86.71	86.71
14460419	52.79	63.44	10.36	69.37	7820.19	3763.44	3763.44	86.71	86.71
14460420	52.79	63.44	10.36	69.37	7820.19	3763.44	3763.44	86.71	86.71
14460421	52.79	63.44	10.36	69.37	7820.19	3763.44	3763.44	86.71	86.71
14460422	52.79	63.44	10.36	69.37	7820.19	3763.44	3763.44	86.71	86.71
14460423	52.79	63.44	10.36	69.37	7820.19	3763.44	3763.44	86.71	86.71
14460424	52.79	63.44	10.36	69.37	7820.19	3763.44	3763.44	86.71	86.71
14460425	52.79	63.44	10.36	69.37	7820.19	3763.44	3763.44	86.71	86.71
14460426	52.79	63.44	10.36	69.37	7820.19	3763.44	3763.44	86.71	86.71
14460427	52.79	63.44	10.36	69.37	7820.19	3763.44	3763.44	86.71	86.71
14460428	52.79	63.44	10.36	69.37	7820.19	3763.44	3763.44	86.71	86.71
14460429	52.79	63.44	10.36	69.37	7820.19	3763.44	3763.44	86.71	86.71
14460430	52.79	63.44	10.36	69.37	7820.19	3763.44	3763.44	86.71	86.71
14460431	52.79	63.44	10.36	69.37	7820.19	3763.44	3763.44	86.71	86.71
14460432	52.79	63.44	10.36	69.37	7820.19	3763.44	3763.44	86.71	86.71
14460433	52.79	63.44	10.36	69.37	7820.19	3763.44	3763.44	86.71	86.71
14460434	52.79	63.44	10.36	69.37	7820.19	3763.44	3763.44		

Edition	Total Volume Told						Pd. Volume
	Pt. Avos	Old Age	Wife	175 Volume	Compendium	Old Mt.	
1946-48	16,149	18,488	18,488	329,613	64,811	177,726	
1948-50	19,420	17,791	18,344	329,613	64,811	177,726	
1950-52	20,111	17,245	17,245	329,613	64,811	177,726	
1952-54	20,111	17,245	17,245	329,613	64,811	177,726	
1954-56	20,111	17,245	17,245	329,613	64,811	177,726	
1956-58	20,111	17,245	17,245	329,613	64,811	177,726	
1958-60	20,111	17,245	17,245	329,613	64,811	177,726	
1960-62	20,111	17,245	17,245	329,613	64,811	177,726	
1962-64	20,111	17,245	17,245	329,613	64,811	177,726	
1964-66	20,111	17,245	17,245	329,613	64,811	177,726	
1966-68	20,111	17,245	17,245	329,613	64,811	177,726	
1968-70	20,111	17,245	17,245	329,613	64,811	177,726	
1970-72	20,111	17,245	17,245	329,613	64,811	177,726	
1972-74	20,111	17,245	17,245	329,613	64,811	177,726	
1974-76	20,111	17,245	17,245	329,613	64,811	177,726	
1976-78	20,111	17,245	17,245	329,613	64,811	177,726	
1978-80	20,111	17,245	17,245	329,613	64,811	177,726	
1980-82	20,111	17,245	17,245	329,613	64,811	177,726	
1982-84	20,111	17,245	17,245	329,613	64,811	177,726	
1984-86	20,111	17,245	17,245	329,613	64,811	177,726	
1986-88	20,111	17,245	17,245	329,613	64,811	177,726	
1988-90	20,111	17,245	17,245	329,613	64,811	177,726	
1990-92	20,111	17,245	17,245	329,613	64,811	177,726	
1992-94	20,111	17,245	17,245	329,613	64,811	177,726	
1994-96	20,111	17,245	17,245	329,613	64,811	177,726	
1996-98	20,111	17,245	17,245	329,613	64,811	177,726	
1998-2000	20,111	17,245	17,245	329,613	64,811	177,726	
2000-2002	20,111	17,245	17,245	329,613	64,811	177,726	
2002-2004	20,111	17,245	17,245	329,613	64,811	177,726	
2004-2006	20,111	17,245	17,245	329,613	64,811	177,726	
2006-2008	20,111	17,245	17,245	329,613	64,811	177,726	
2008-2010	20,111	17,245	17,245	329,613	64,811	177,726	
2010-2012	20,111	17,245	17,245	329,613	64,811	177,726	
2012-2014	20,111	17,245	17,245	329,613	64,811	177,726	
2014-2016	20,111	17,245	17,245	329,613	64,811	177,726	
2016-2018	20,111	17,245	17,245	329,613	64,811	177,726	
2018-2020	20,111	17,245	17,245	329,613	64,811	177,726	
2020-2022	20,111	17,245	17,245	329,613	64,811	177,726	
2022-2024	20,111	17,245	17,245	329,613	64,811	177,726	
2024-2026	20,111	17,245	17,245	329,613	64,811	177,726	
2026-2028	20,111	17,245	17,245	329,613	64,811	177,726	
2028-2030	20,111	17,245	17,245	329,613	64,811	177,726	
2030-2032	20,111	17,245	17,245	329,613	64,811	177,726	
2032-2034	20,111	17,245	17,245	329,613	64,811	177,726	
2034-2036	20,111	17,245	17,245	329,613	64,811	177,726	
2036-2038	20,111	17,245	17,245	329,613	64,811	177,72	

Station	Total Volume Tons					Cumulative Tot Vol	Rate Volume
	PR Area	Ord Area	PR Volume	Ord Volume	Vol		
2000-00-01	25.71	44.82	65.29	32.83	408.23	6477.25	198.54
2000-00-02	34.18	34.18	44.45	44.35	499.53	6640.51	198.75
2000-00-03	41.18	64.67	82.82	51.32	638.18	6844.18	197.63
2000-00-04	42.17	42.17	42.71	42.87	671.23	6912.18	197.25
2000-00-05	42.38	42.38	42.38	32.17	688.43	6983.43	196.62
2000-00-06	42.38	42.38	42.38	42.38	698.15	7024.15	196.45
2000-00-07	44.15	44.15	44.15	44.15	7024.15	7068.15	196.17
2000-00-08	45.12	45.12	45.12	45.12	7068.15	7113.15	195.79
2000-00-09	45.12	45.12	45.12	45.12	7113.15	7158.15	195.41
2000-00-10	45.12	45.12	45.12	45.12	7158.15	7203.15	195.03
2000-00-11	45.12	45.12	45.12	45.12	7203.15	7248.15	194.65
2000-00-12	45.12	45.12	45.12	45.12	7248.15	7293.15	194.27
2000-00-13	45.12	45.12	45.12	45.12	7293.15	7338.15	193.89
2000-00-14	45.12	45.12	45.12	45.12	7338.15	7383.15	193.51
2000-00-15	45.12	45.12	45.12	45.12	7383.15	7428.15	193.13
2000-00-16	45.12	45.12	45.12	45.12	7428.15	7473.15	192.75
2000-00-17	45.12	45.12	45.12	45.12	7473.15	7518.15	192.37
2000-00-18	45.12	45.12	45.12	45.12	7518.15	7563.15	191.99
2000-00-19	45.12	45.12	45.12	45.12	7563.15	7608.15	191.61
2000-00-20	45.12	45.12	45.12	45.12	7608.15	7653.15	191.23
2000-00-21	45.12	45.12	45.12	45.12	7653.15	7698.15	190.85
2000-00-22	45.12	45.12	45.12	45.12	7698.15	7743.15	190.47
2000-00-23	45.12	45.12	45.12	45.12	7743.15	7788.15	190.09
2000-00-24	45.12	45.12	45.12	45.12	7788.15	7833.15	189.71
2000-00-25	45.12	45.12	45.12	45.12	7833.15	7878.15	189.33
2000-00-26	45.12	45.12	45.12	45.12	7878.15	7923.15	188.95
2000-00-27	45.12	45.12	45.12	45.12	7923.15	7968.15	188.57
2000-00-28	45.12	45.12	45.12	45.12	7968.15	8013.15	188.19
2000-00-29	45.12	45.12	45.12	45.12	8013.15	8058.15	187.81
2000-00-30	45.12	45.12	45.12	45.12	8058.15	8103.15	187.43
2000-00-31	45.12	45.12	45.12	45.12	8103.15	8148.15	187.05
2000-00-32	45.12	45.12	45.12	45.12	8148.15	8193.15	186.67
2000-00-33	45.12	45.12	45.12	45.12	8193.15	8238.15	186.29
2000-00-34	45.12	45.12	45.12	45.12	8238.15	8283.15	185.91
2000-00-35	45.12	45.12	45.12	45.12	8283.15	8328.15	185.53
2000-00-36	45.12	45.12	45.12	45.12	8328.15	8373.15	185.15
2000-00-37	45.12	45.12	45.12	45.12	8373.15	8418.15	184.77
2000-00-38	45.12	45.12	45.12	45.12	8418.15	8463.15	184.39

Dataset	Target Variable: Total						
	Age	Sex	Ohl Age	Ohl Sex	PII Number	Col Volume	Questions Col Vol
2019-01-01	20.88	31.39	16.63	44.42	61.37	60624.0	7764.0
2019-01-02	20.88	31.39	16.63	44.42	61.37	60624.0	7764.0
2019-01-03	20.88	31.39	16.63	44.42	61.37	60624.0	7764.0
2019-01-04	20.88	31.39	16.63	44.42	61.37	60624.0	7764.0
2019-01-05	20.88	31.39	16.63	44.42	61.37	60624.0	7764.0
2019-01-06	20.88	31.39	16.63	44.42	61.37	60624.0	7764.0
2019-01-07	20.88	31.39	16.63	44.42	61.37	60624.0	7764.0
2019-01-08	20.88	31.39	16.63	44.42	61.37	60624.0	7764.0
2019-01-09	20.88	31.39	16.63	44.42	61.37	60624.0	7764.0
2019-01-10	20.88	31.39	16.63	44.42	61.37	60624.0	7764.0
2019-01-11	20.88	31.39	16.63	44.42	61.37	60624.0	7764.0
2019-01-12	20.88	31.39	16.63	44.42	61.37	60624.0	7764.0
2019-01-13	20.88	31.39	16.63	44.42	61.37	60624.0	7764.0
2019-01-14	20.88	31.39	16.63	44.42	61.37	60624.0	7764.0
2019-01-15	20.88	31.39	16.63	44.42	61.37	60624.0	7764.0
2019-01-16	20.88	31.39	16.63	44.42	61.37	60624.0	7764.0
2019-01-17	20.88	31.39	16.63	44.42	61.37	60624.0	7764.0
2019-01-18	20.88	31.39	16.63	44.42	61.37	60624.0	7764.0
2019-01-19	20.88	31.39	16.63	44.42	61.37	60624.0	7764.0
2019-01-20	20.88	31.39	16.63	44.42	61.37	60624.0	7764.0
2019-01-21	20.88	31.39	16.63	44.42	61.37	60624.0	7764.0
2019-01-22	20.88	31.39	16.63	44.42	61.37	60624.0	7764.0
2019-01-23	20.88	31.39	16.63	44.42	61.37	60624.0	7764.0
2019-01-24	20.88	31.39	16.63	44.42	61.37	60624.0	7764.0
2019-01-25	20.88	31.39	16.63	44.42	61.37	60624.0	7764.0
2019-01-26	20.88	31.39	16.63	44.42	61.37	60624.0	7764.0
2019-01-27	20.88	31.39	16.63	44.42	61.37	60624.0	7764.0
2019-01-28	20.88	31.39	16.63	44.42	61.37	60624.0	7764.0
2019-01-29	20.88	31.39	16.63	44.42	61.37	60624.0	7764.0
2019-01-30	20.88	31.39	16.63	44.42	61.37	60624.0	7764.0
2019-01-31	20.88	31.39	16.63	44.42	61.37	60624.0	7764.0
2019-02-01	20.88	31.39	16.63	44.42	61.37	60624.0	7764.0
2019-02-02	20.88	31.39	16.63	44.42	61.37	60624.0	7764.0
2019-02-03	20.88	31.39	16.63	44.42	61.37	60624.0	7764.0
2019-02-04	20.88	31.39	16.63	44.42	61.37	60624.0	7764.0
2019-02-05	20.88	31.39	16.63	44.42	61.37	60624.0	7764.0
2019-02-06	20.88	31.39	16.63	44.42	61.37	60624.0	7764.0
2019-02-07	20.88	31.39	16.63	44.42	61.37	60624.0	7764.0
2019-02-08	20.88	31.39	16.63	44.42	61.37	60624.0	7764.0
2019-02-09	20.88	31.39	16.63	44.42	61.37	60624.0	7764.0
2019-02-10	20.88	31.39	16.63	44.42	61.37	60624.0	7764.0
2019-02-11	20.88	31.39	16.63	44.42	61.37	60624.0	7764.0
2019-02-12	20.88	31.39	16.63	44.42	61.37	60624.0	7764.0
2019-02-13	20.88	31.39	16.63	44.42	61.37	60624.0	7764.0
2019-02-14	20.88	31.39	16.63	44.42	61.37	60624.0	7764.0
2019-02-15	20.88	31.39	16.63	44.42	61.37	60624.0	7764.0
2019-02-16	20.88	31.39	16.63	44.42	61.37	60624.0	7764.0
2019-02-17	20.88	31.39	16.63	44.42	61.37	60624.0	7764.0
2019-02-18	20.88	31.39	16.63	44.42	61.37	60624.0	7764.0
2019-02-19	20.88	31.39	16.63	44.42	61.37	60624.0	7764.0
2019-02-20	20.88	31.39	16.63	44.42	61.37	60624.0	7764.0

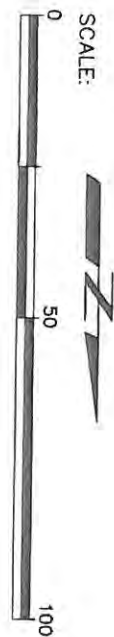
Station	TV Area	Rel Area	Net Volume	Test Volume	Counting Net Vol	Net Volume
994-995	3.54	3.20	4.65	4.80	9794.54	5412.69
996-997	3.43	3.20	4.65	4.80	9794.54	5391.52
998-999	3.43	3.20	4.65	4.80	9794.54	5391.52
1000-1001	3.43	3.20	4.65	4.80	9794.54	5391.52
1002-1003	3.43	3.20	4.65	4.80	9794.54	5391.52
1004-1005	3.43	3.20	4.65	4.80	9794.54	5391.52
1006-1007	3.43	3.20	4.65	4.80	9794.54	5391.52
1008-1009	3.43	3.20	4.65	4.80	9794.54	5391.52
1010-1011	3.43	3.20	4.65	4.80	9794.54	5391.52
1012-1013	3.43	3.20	4.65	4.80	9794.54	5391.52
1014-1015	3.43	3.20	4.65	4.80	9794.54	5391.52
1016-1017	3.43	3.20	4.65	4.80	9794.54	5391.52
1018-1019	3.43	3.20	4.65	4.80	9794.54	5391.52
1020-1021	3.43	3.20	4.65	4.80	9794.54	5391.52
1022-1023	3.43	3.20	4.65	4.80	9794.54	5391.52
1024-1025	3.43	3.20	4.65	4.80	9794.54	5391.52
1026-1027	3.43	3.20	4.65	4.80	9794.54	5391.52
1028-1029	3.43	3.20	4.65	4.80	9794.54	5391.52
1030-1031	3.43	3.20	4.65	4.80	9794.54	5391.52
1032-1033	3.43	3.20	4.65	4.80	9794.54	5391.52
1034-1035	3.43	3.20	4.65	4.80	9794.54	5391.52
1036-1037	3.43	3.20	4.65	4.80	9794.54	5391.52
1038-1039	3.43	3.20	4.65	4.80	9794.54	5391.52
1040-1041	3.43	3.20	4.65	4.80	9794.54	5391.52
1042-1043	3.43	3.20	4.65	4.80	9794.54	5391.52
1044-1045	3.43	3.20	4.65	4.80	9794.54	5391.52
1046-1047	3.43	3.20	4.65	4.80	9794.54	5391.52
1048-1049	3.43	3.20	4.65	4.80	9794.54	5391.52
1050-1051	3.43	3.20	4.65	4.80	9794.54	5391.52
1052-1053	3.43	3.20	4.65	4.80	9794.54	5391.52
1054-1055	3.43	3.20	4.65	4.80	9794.54	5391.52
1056-1057	3.43	3.20	4.65	4.80	9794.54	5391.52
1058-1059	3.43	3.20	4.65	4.80	9794.54	5391.52
1060-1061	3.43	3.20	4.65	4.80	9794.54	5391.52
1062-1063	3.43	3.20	4.65	4.80	9794.54	5391.52
1064-1065	3.43	3.20	4.65	4.80	9794.54	5391.52
1066-1067	3.43	3.20	4.65	4.80	9794.54	5391.52
1068-1069	3.43	3.20	4.65	4.80	9794.54	5391.52
1070-1071	3.43	3.20	4.65	4.80	9794.54	5391.52
1072-1073	3.43	3.20	4.65	4.80	9794.54	5391.52
1074-1075	3.43	3.20	4.65	4.80	9794.54	5391.52
1076-1077	3.43	3.20	4.65	4.80	9794.54	5391.52
1078-1079	3.43	3.20	4.65	4.80	9794.54	5391.52
1080-1081	3.43	3.20	4.65	4.80	9794.54	5391.52
1082-1083	3.43	3.20	4.65	4.80	9794.54	5391.52
1084-1085	3.43	3.20	4.65	4.80	9794.54	5391.52
1086-1087	3.43	3.20	4.65	4.80	9794.54	5391.52
1088-1089	3.43	3.20	4.65	4.80	9794.54	5391.52
1090-1091	3.43	3.20	4.65	4.80	9794.54	5391.52
1092-1093	3.43	3.20	4.65	4.80	9794.54	5391.52
1094-1095	3.43	3.				

[illegible]

NOTE:
A shrink factor of 30% has been applied to these tables.

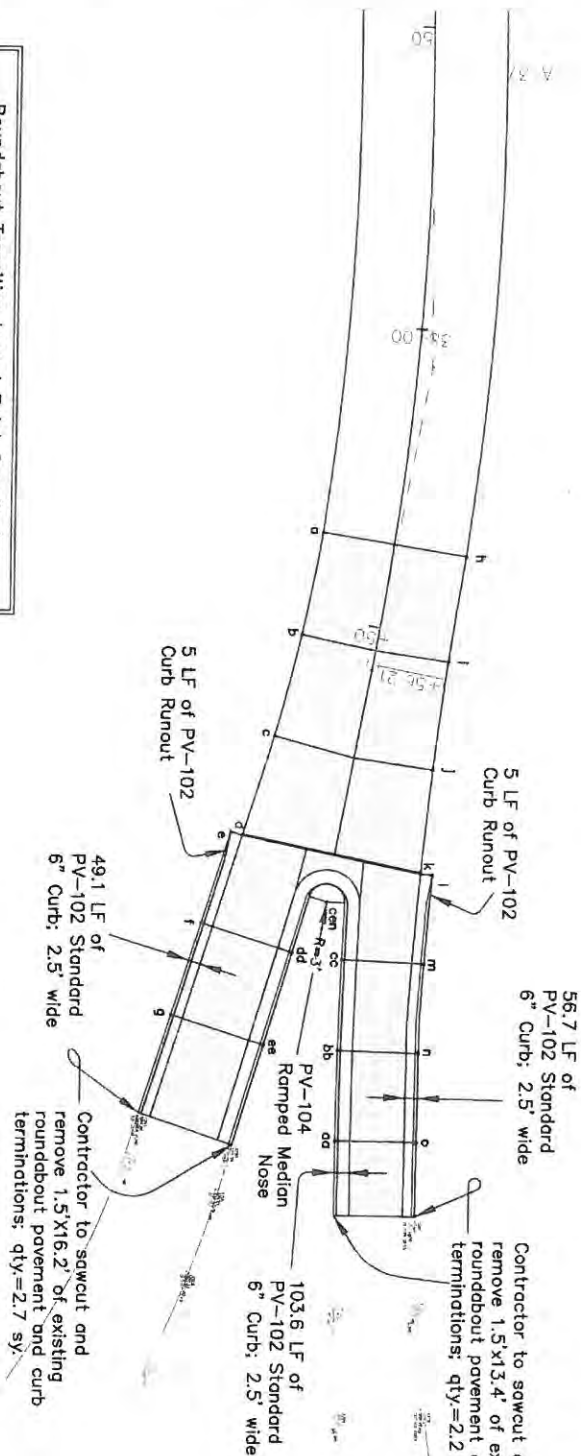
INTERSECTION DETAILS SHEET

PROJ No. FM-C085(146)--55-85



Roundabout Transition Layout

See PV-101 for joint types and locations.
All longitudinal joints will be KT-2 or L-2 unless noted otherwise.
Expansion joint abutting median nose blockout.



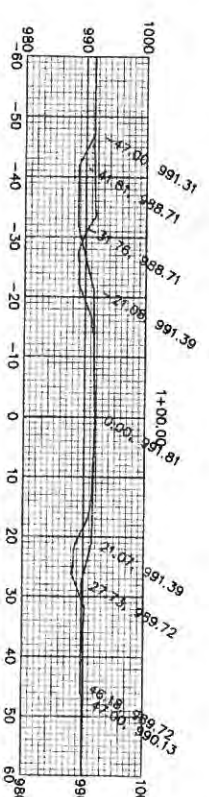
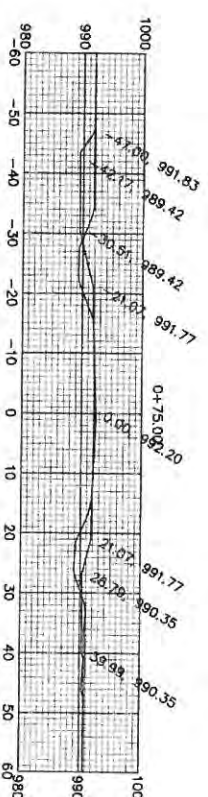
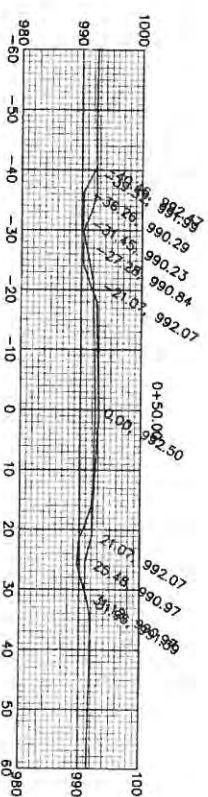
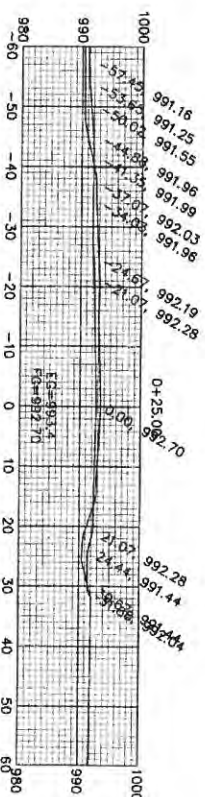
Roundabout Transition Layout Point Coordinates

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b	3459389.956	4883384.242	n	3459459.009	4883363.998
c	3459406.718	4883388.587	o	3459473.801	4883364.155
d	3459423.214	4883393.701	q	3459473.897	4883377.638
e	3459422.616	4883395.610	r	3459458.699	4883377.406
f	3459437.891	4883400.379	cc	3459443.706	4883376.944
g	3459453.163	4883405.148	dd	3459442.829	4883385.206
h	3459376.473	4883357.142	ee	3459457.959	4883385.792
i	3459394.261	4883359.893	cen	3459434.123	4883379.530
j	3459412.007	4883382.201			
k	3459429.294	4883386.033			
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STORY COUNTY

FM-C085(146)--55-85

PROJ No. FM-C085(146)--55-85



CROSS SECTIONS SHEET

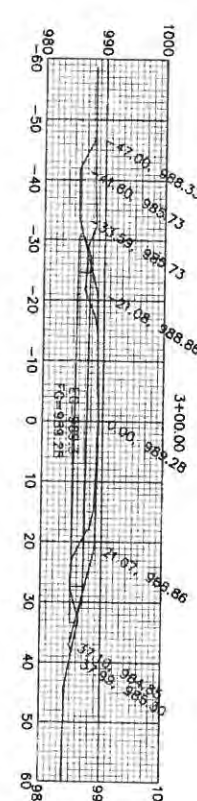
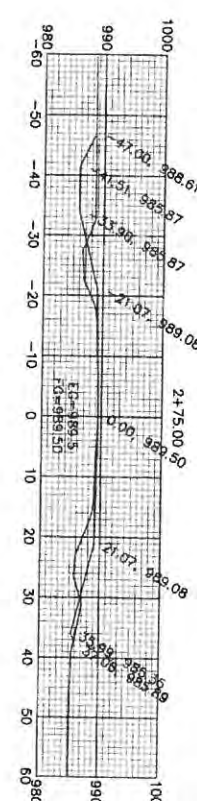
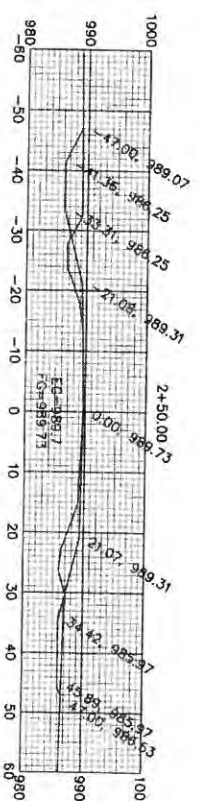
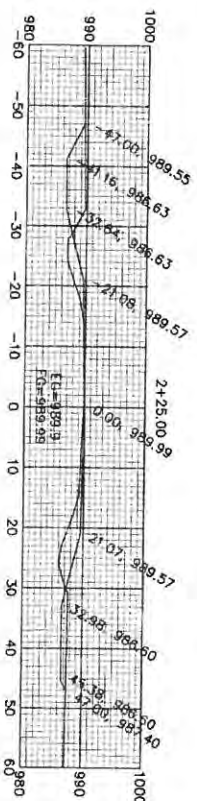
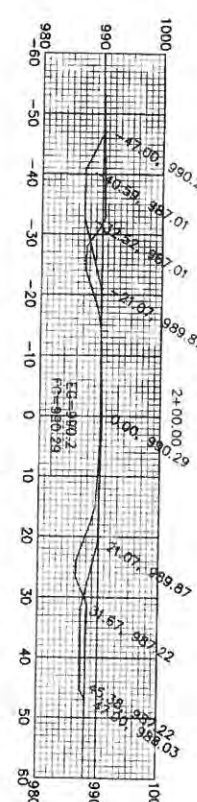
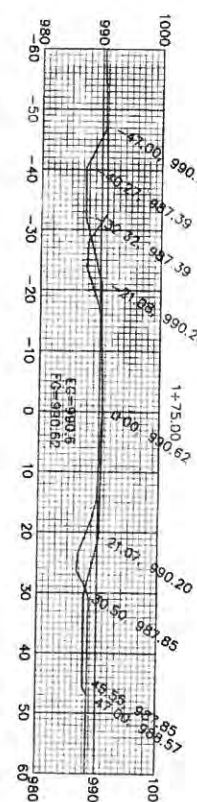
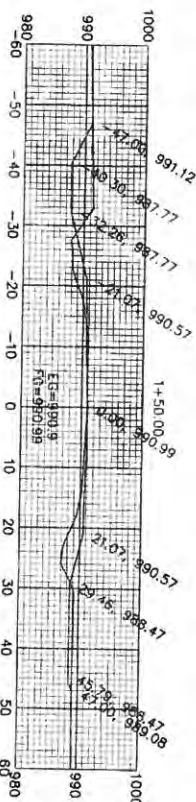
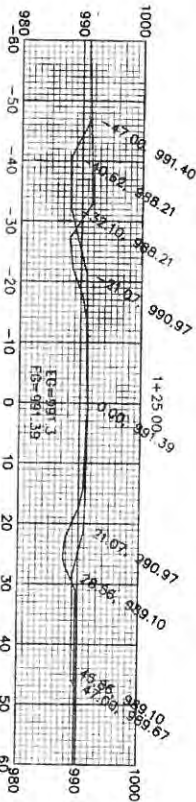
PROJ No. FM-C085(146)--55-85

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STORY COUNTY

11-C085(146)--55-85

11-C085(146)--55-85



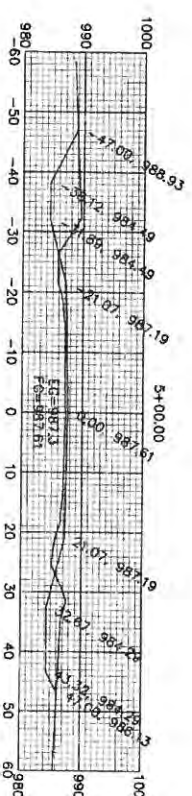
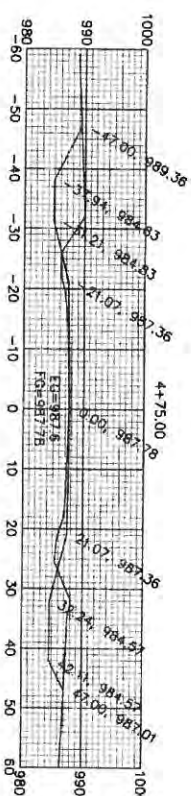
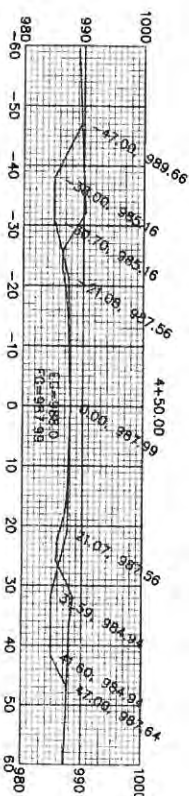
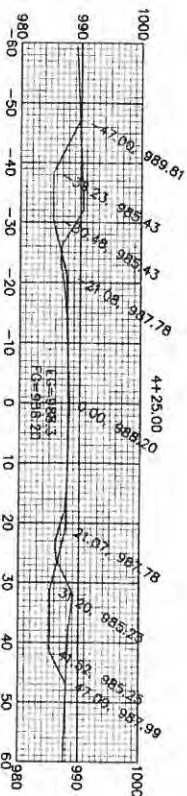
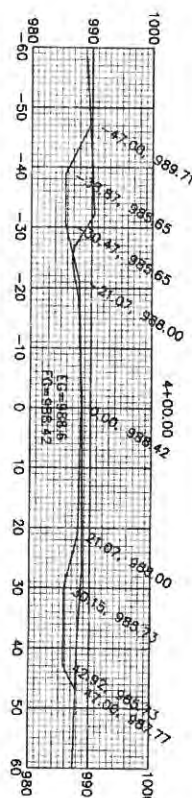
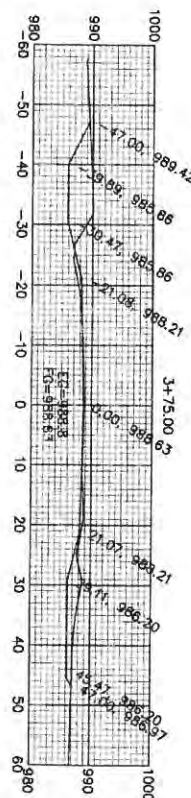
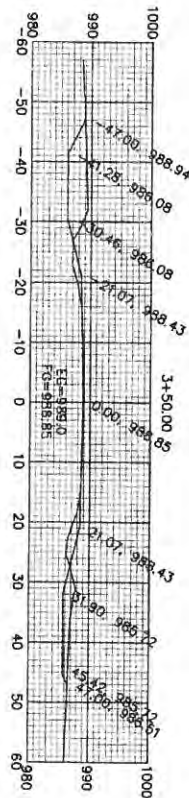
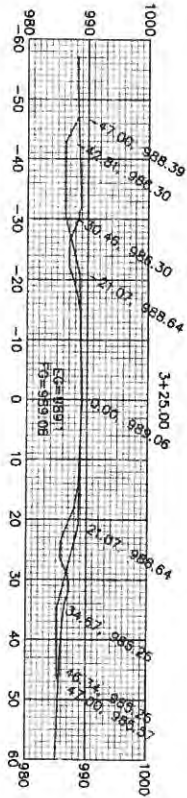
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PROJ No. FM-C085(146)--55-85

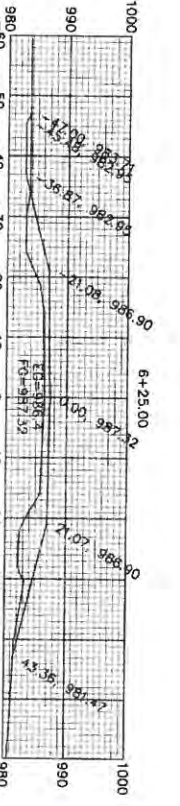
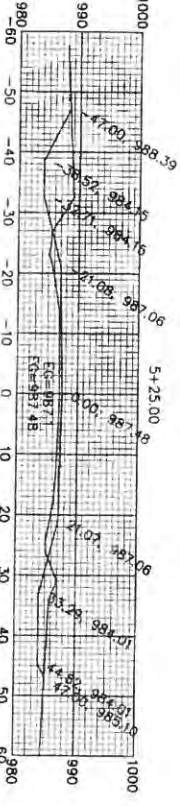
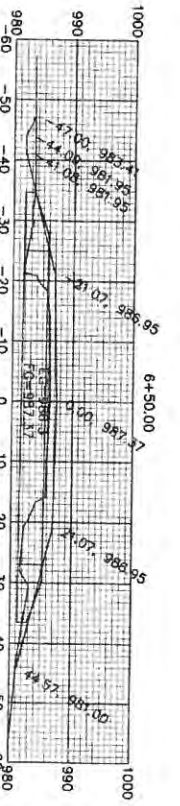
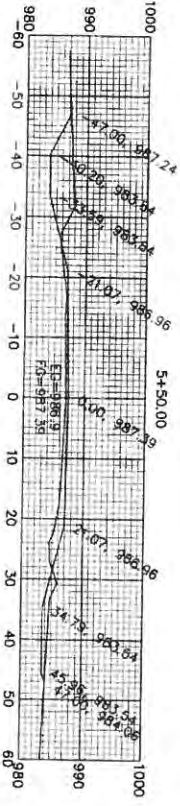
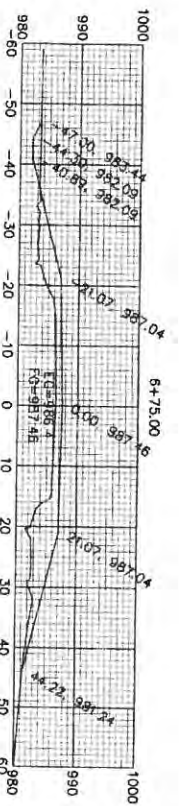
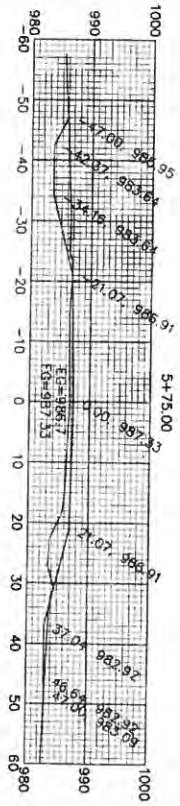
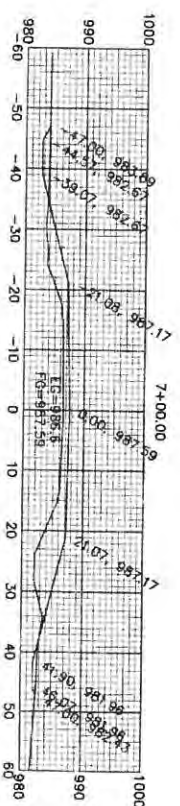
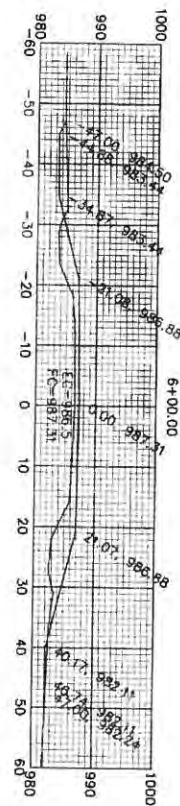
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STORY COUNTY

FILE NAME: FM-C085(146)--55-85



PROJ No. FM-C085(146)--55-85



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STORY COUNTY

PH-C026(146)-65-05

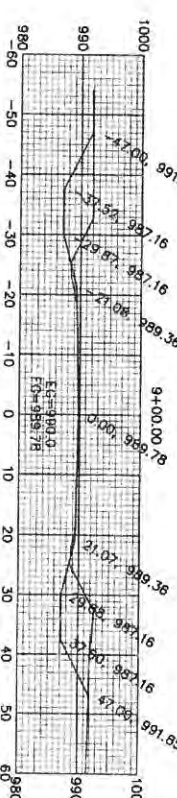
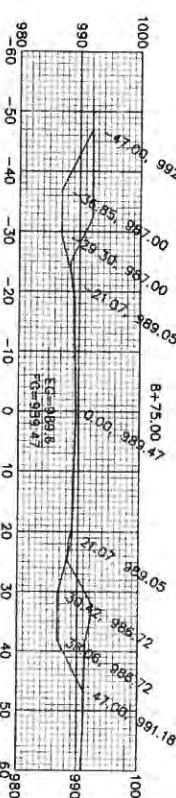
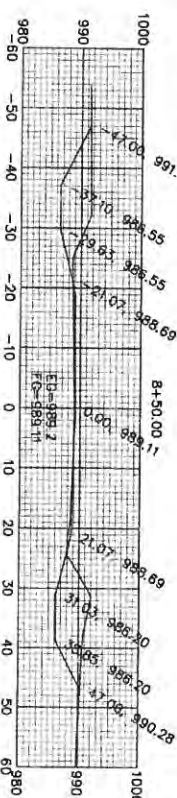
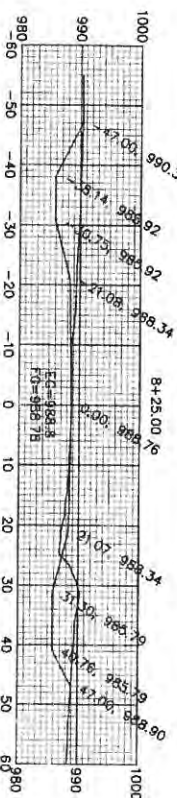
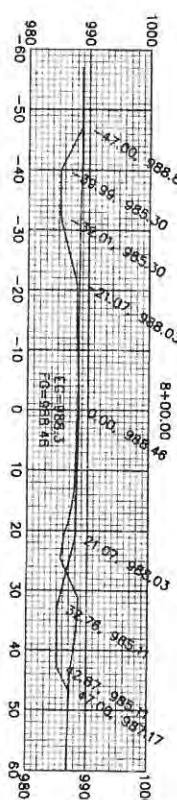
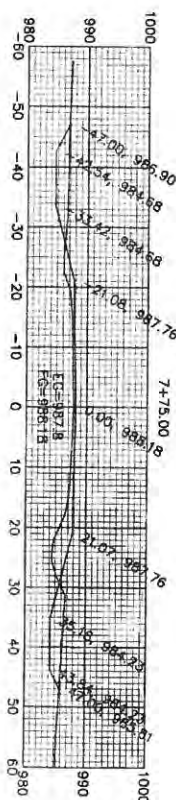
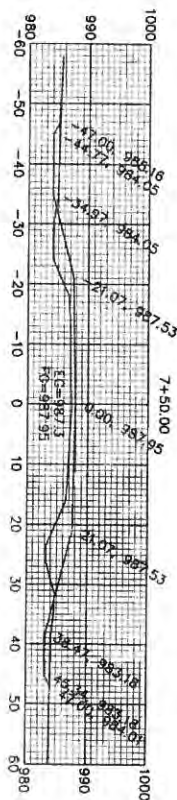
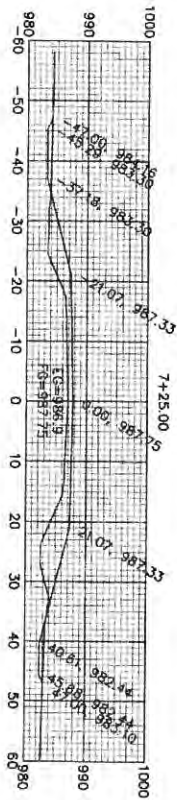
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STORY COUNTY

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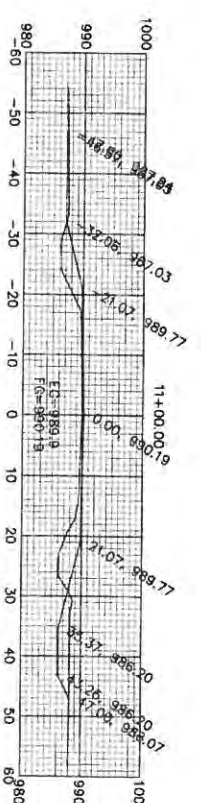
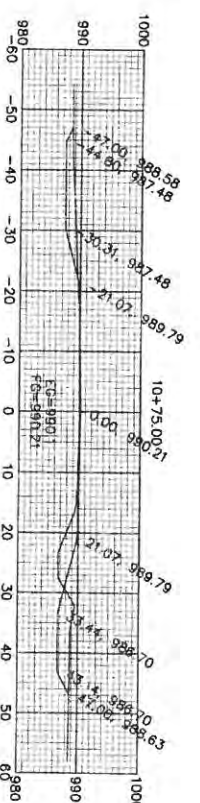
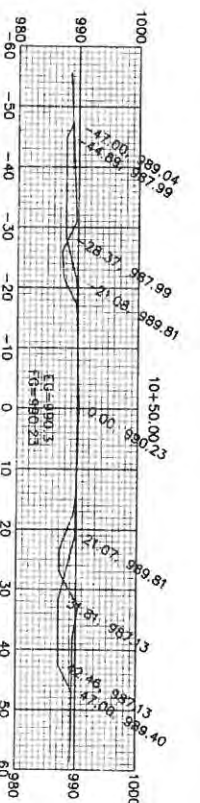
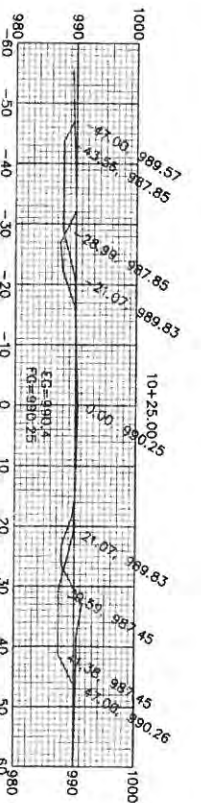
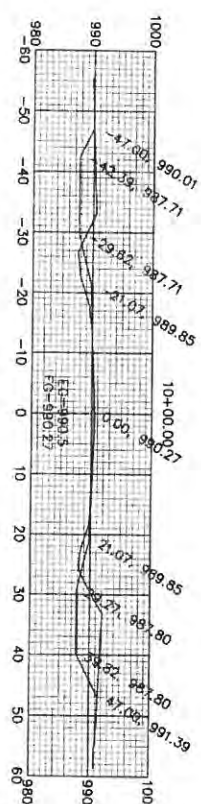
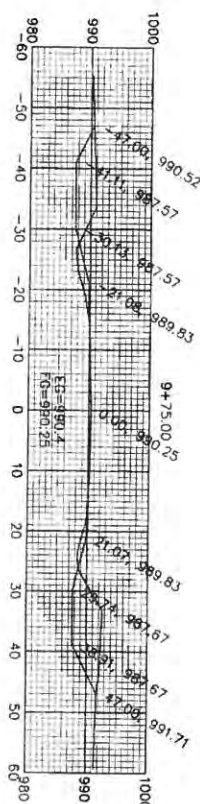
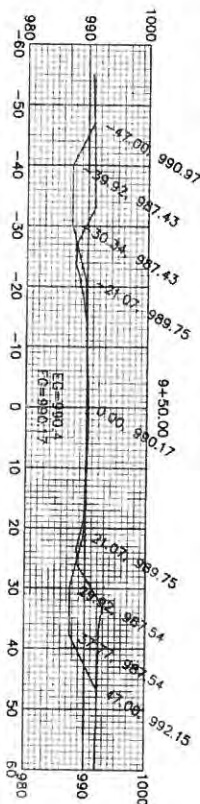
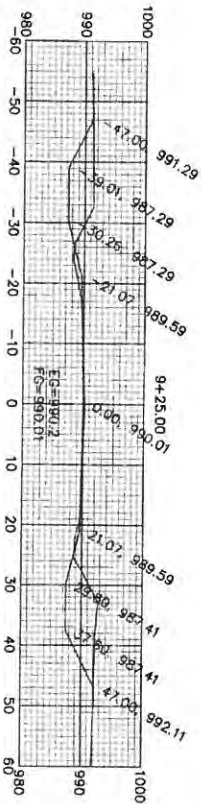
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STORY COUNTY

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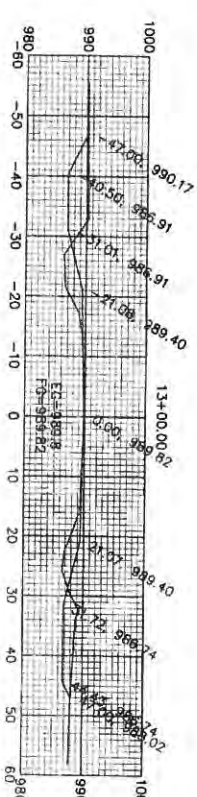
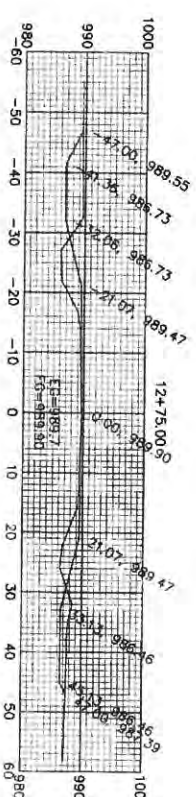
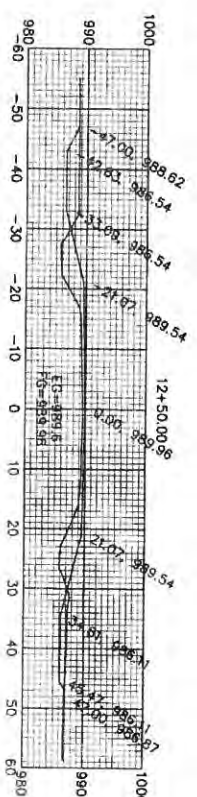
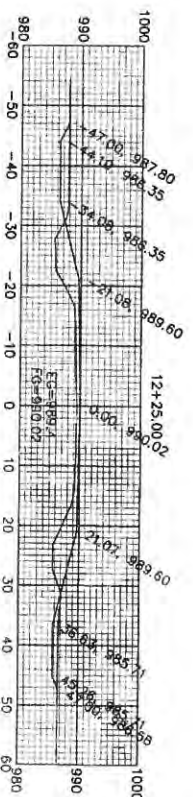
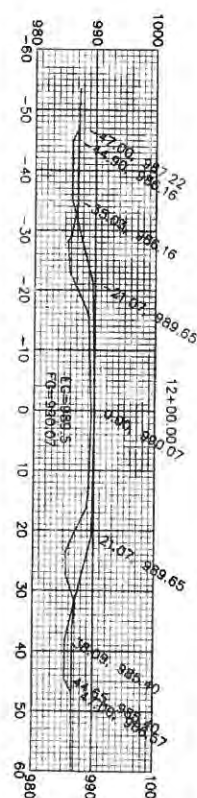
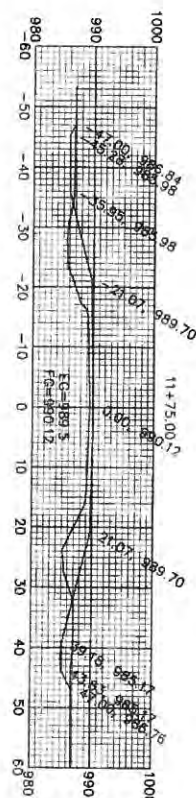
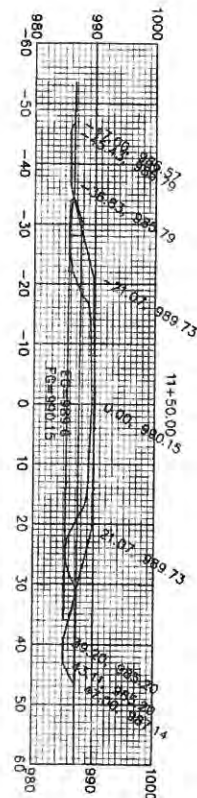
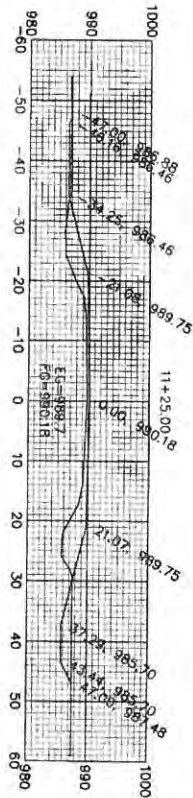
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PROJ No. FM-C085(146)--55-85

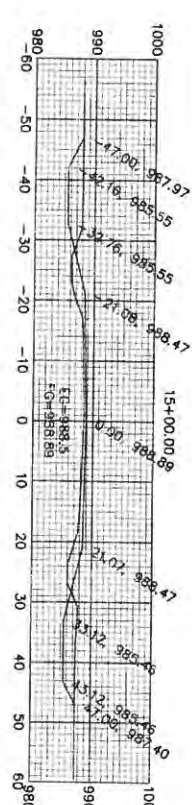
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STORY COUNTY

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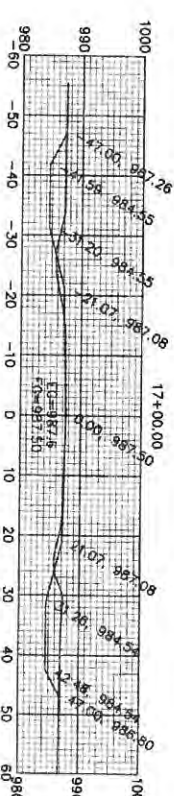


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YH-C086(146)-65-05	REV	7	2016	W.01	36
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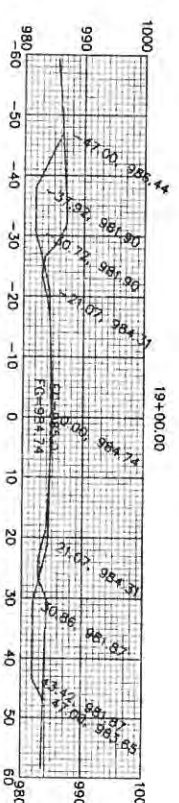
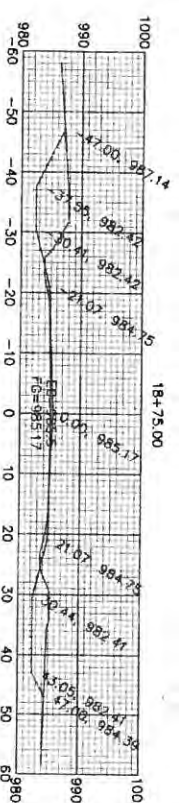
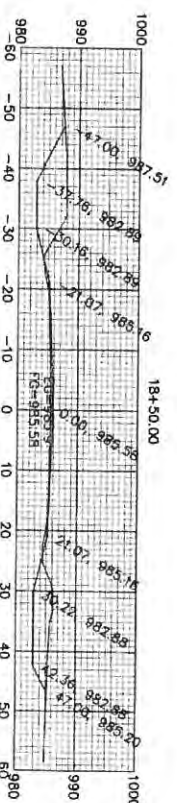
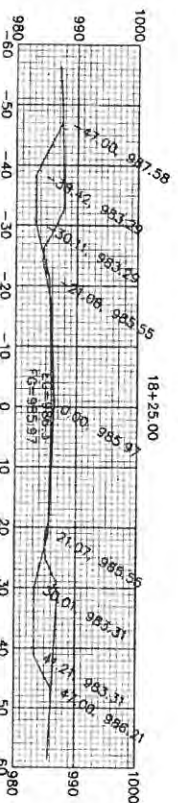
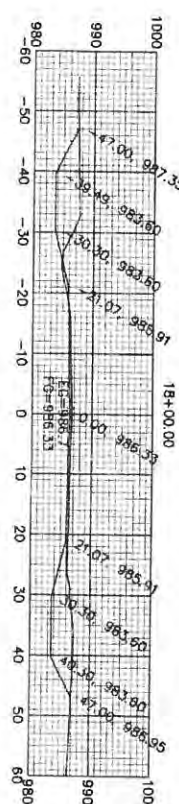
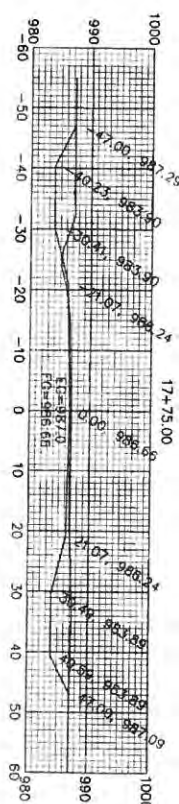
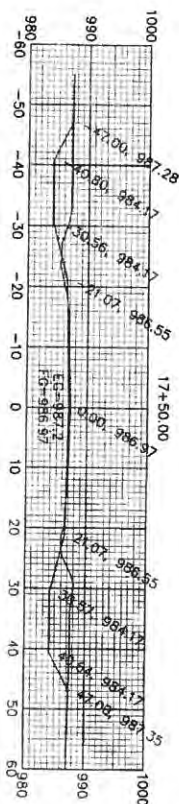
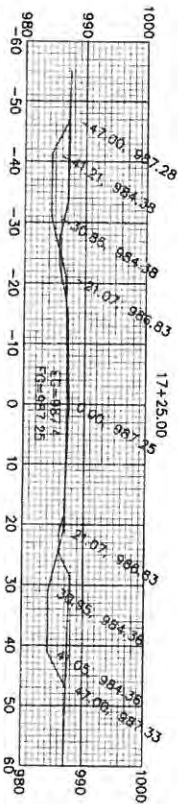


PH-C005(148)--56-86

CROSS SECTIONS SHEET

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STORY COUNTY

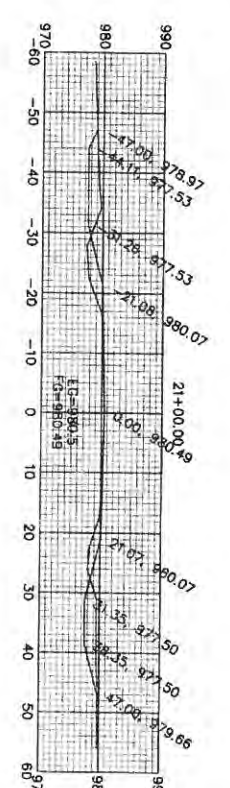
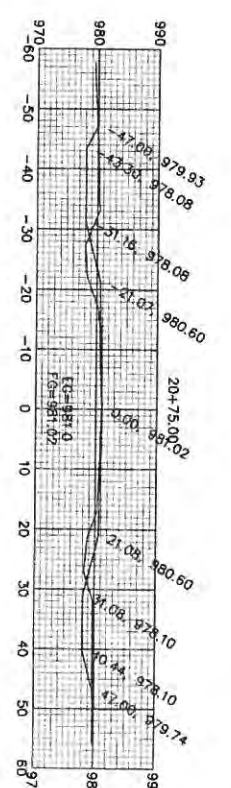
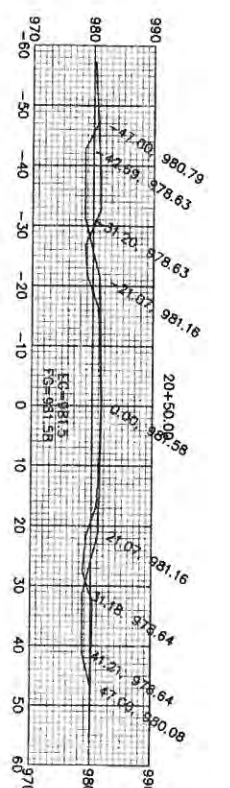
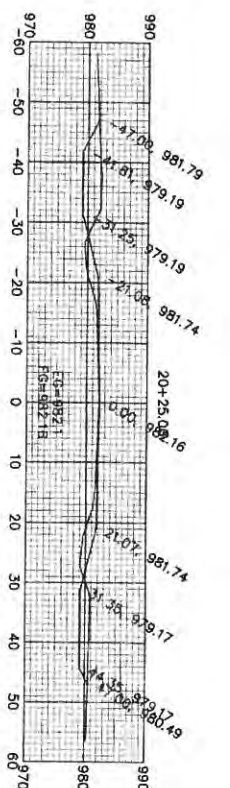
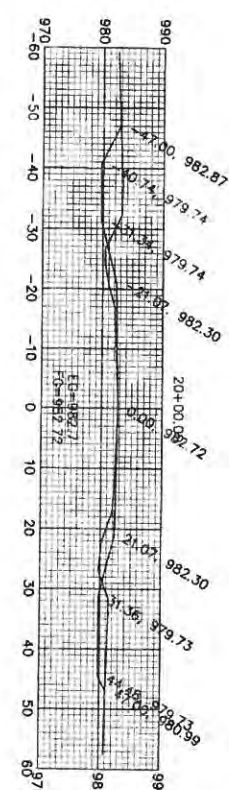
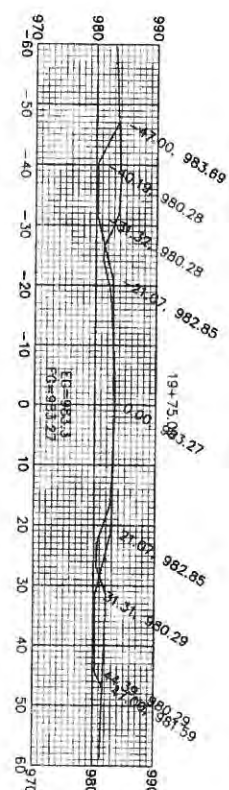
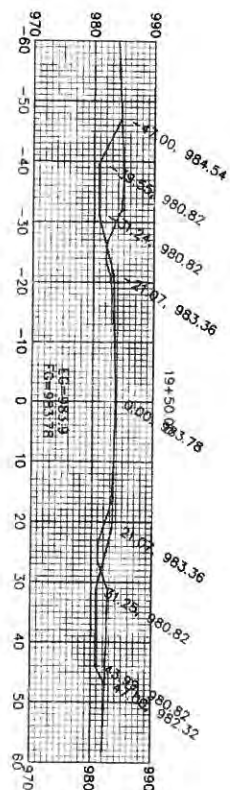
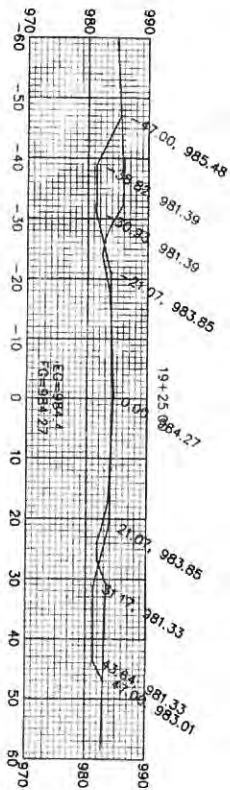
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146-55-85

THE LONDON & WINDSOR POLICE DEPARTMENT HAS GRANT-NO-200-100-000-000-000

STORY COUNTY

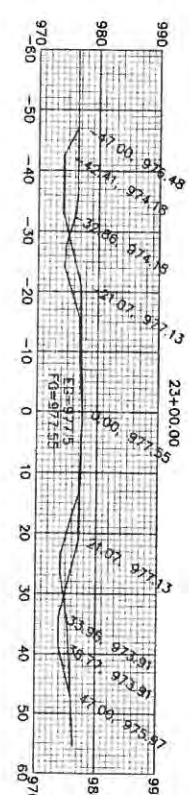
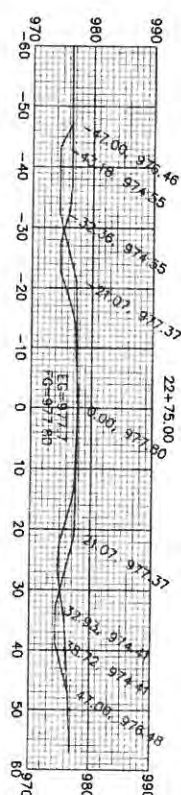
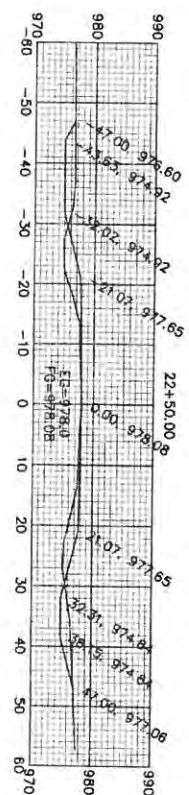
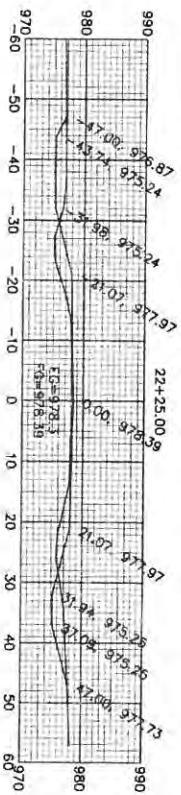
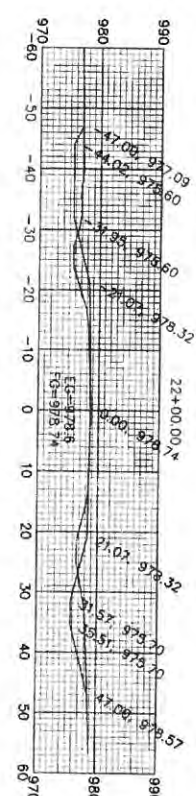
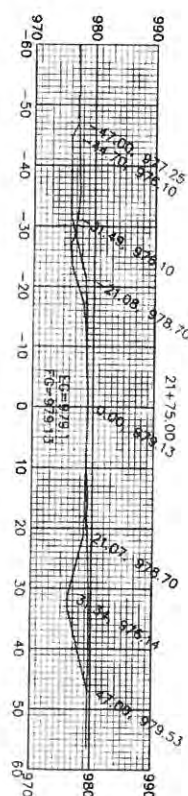
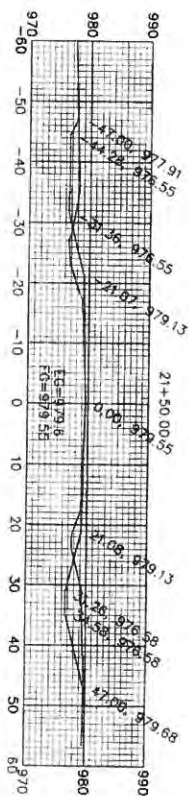
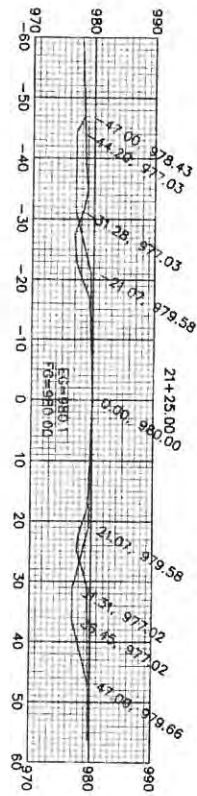
FM-C085(146)--55-85



CROSS SECTIONS SHEET

PROJ No. FM-C085(146)--55-85

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STORY COUNTY

146-55-85

146-55-85

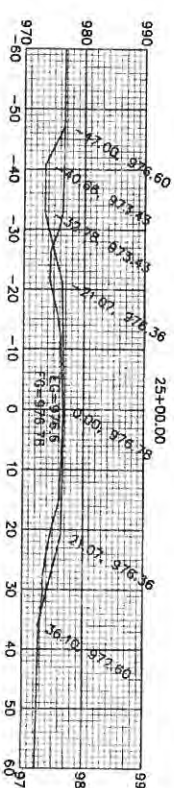
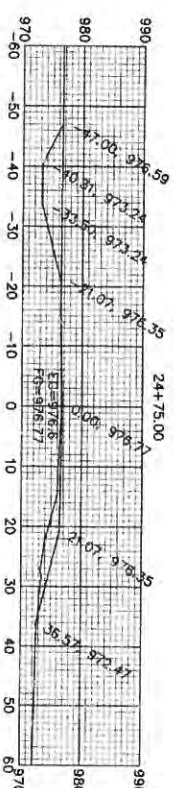
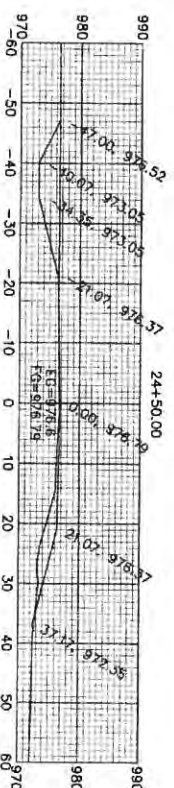
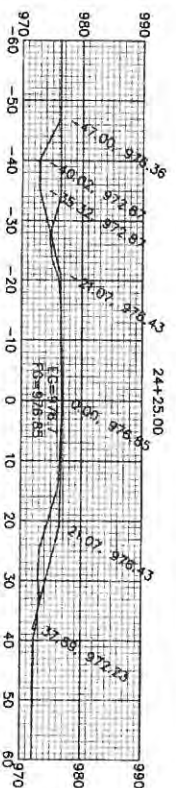
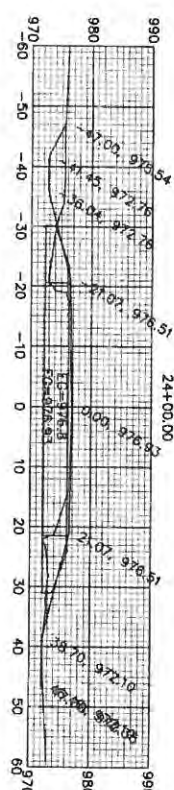
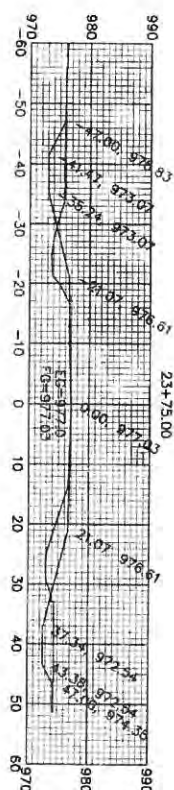
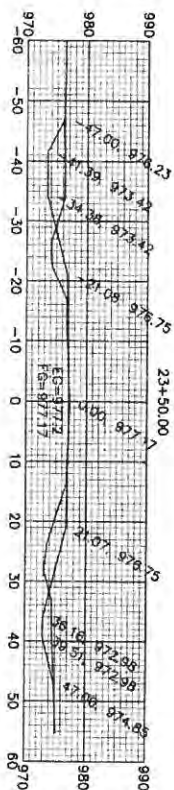
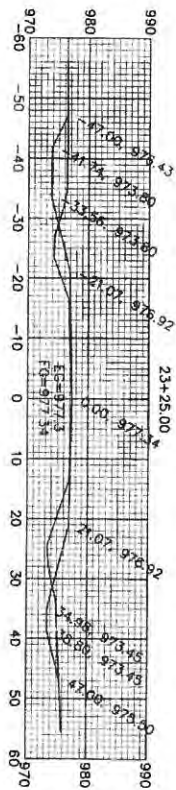
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PROJ No. FM-C085(146)--55-85

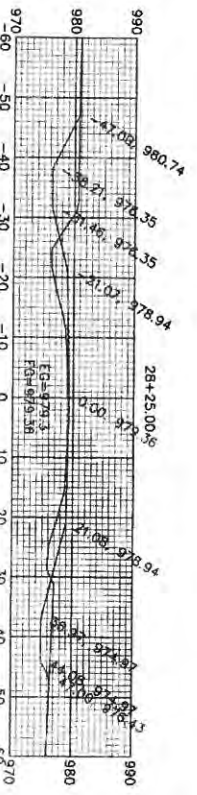
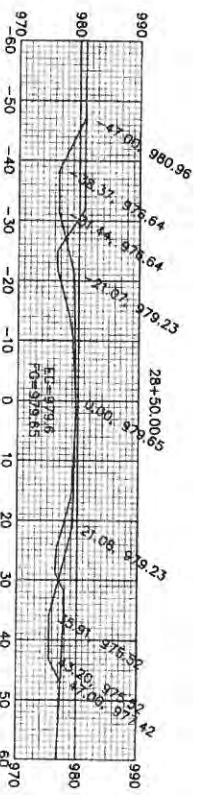
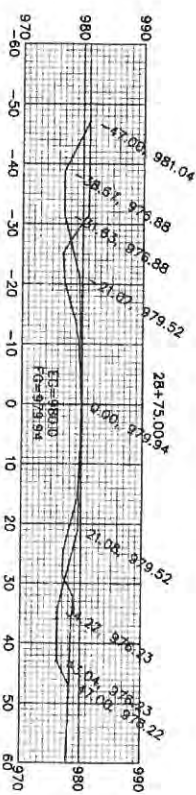
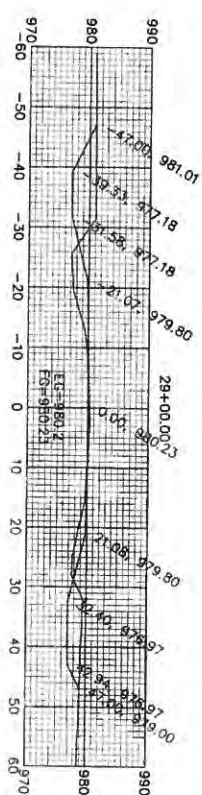
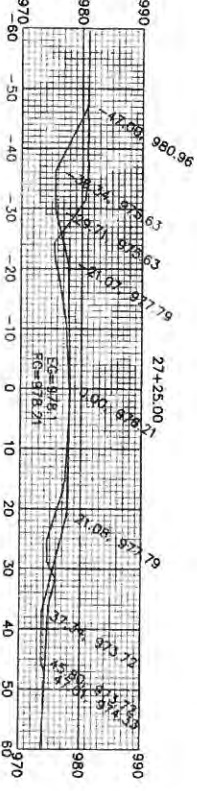
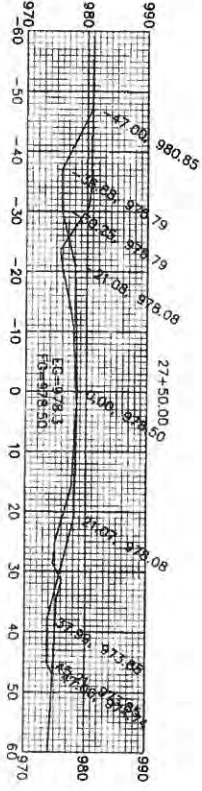
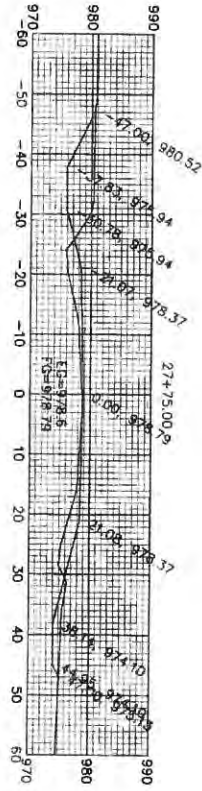
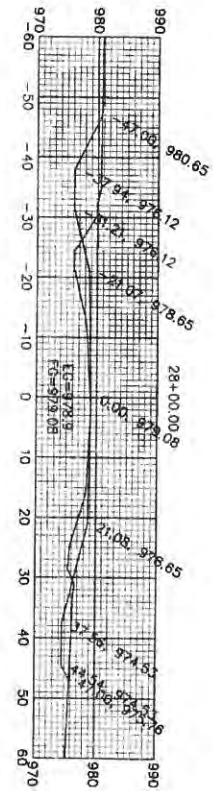
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STORY COUNTY

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STORY COUNTY

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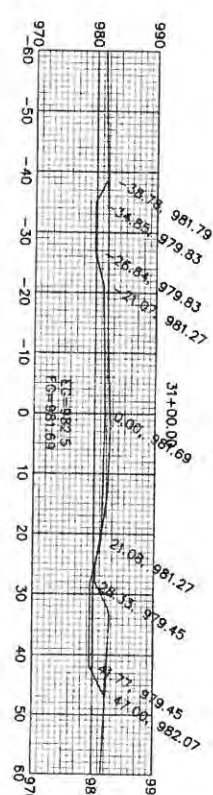
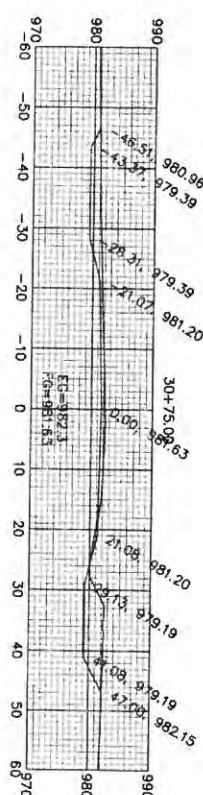
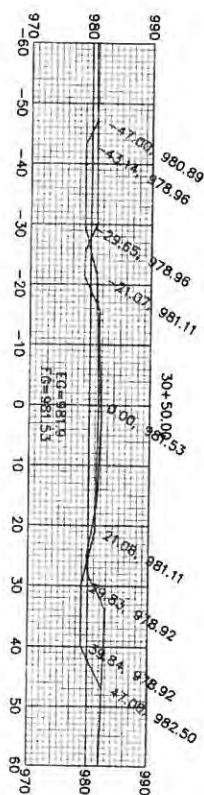
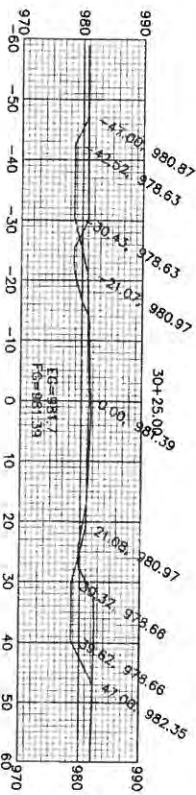
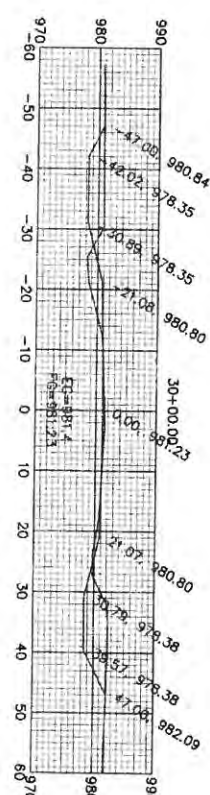
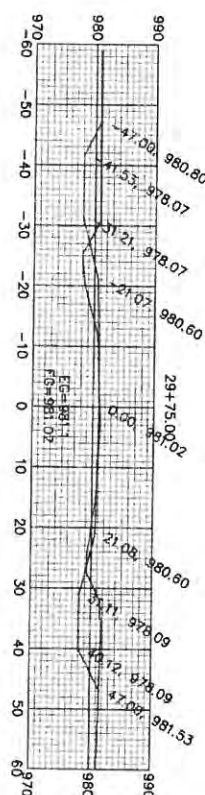
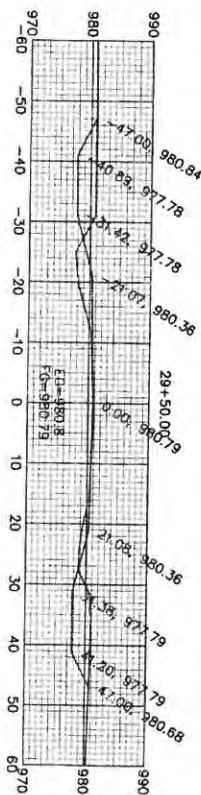
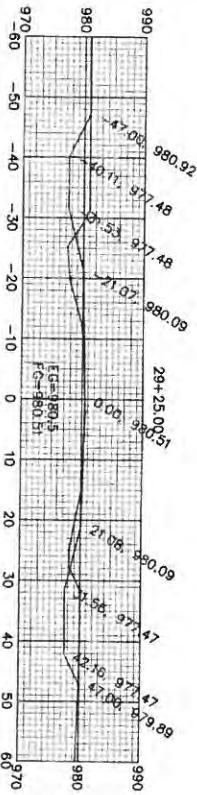
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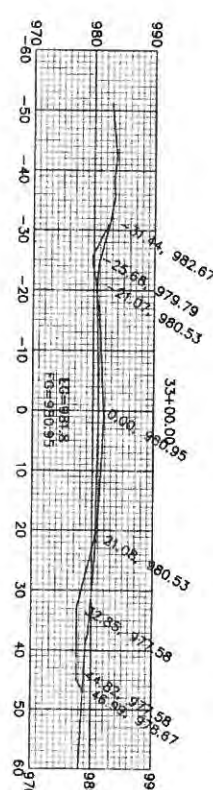
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STORY COUNTY

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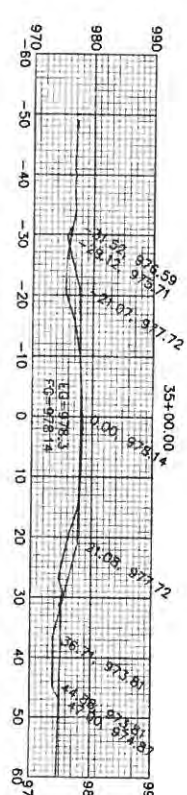


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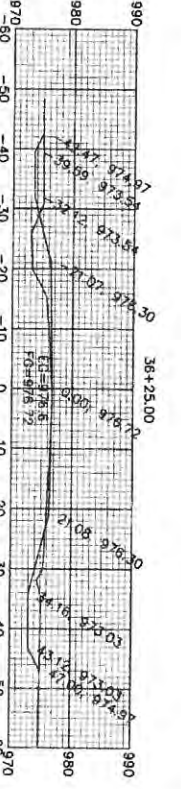
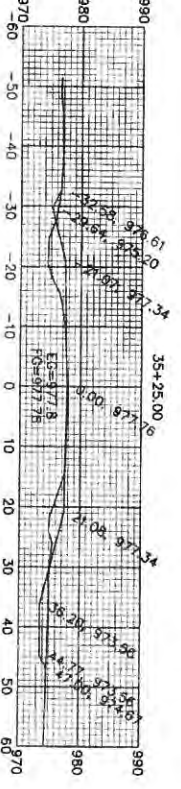
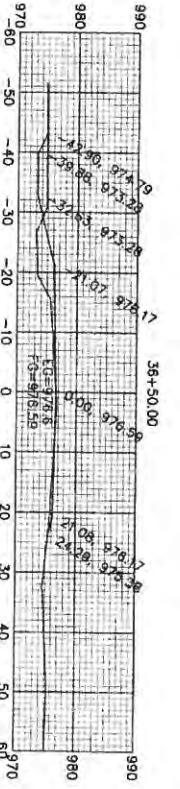
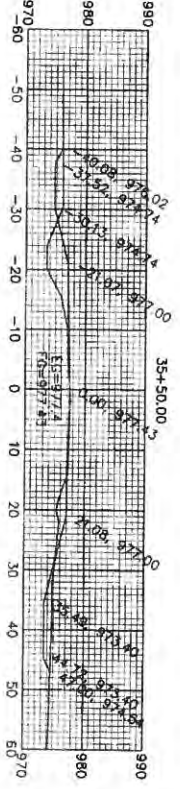
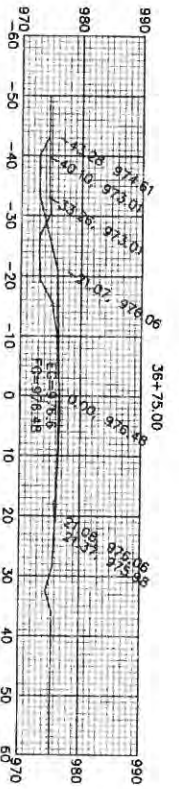
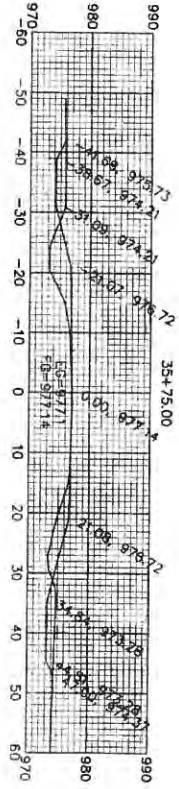
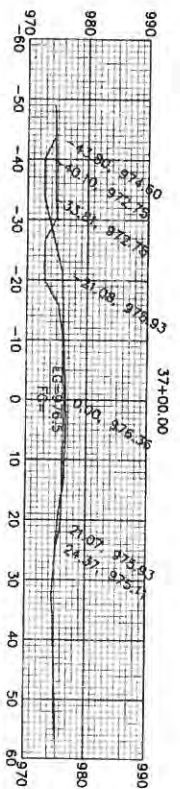
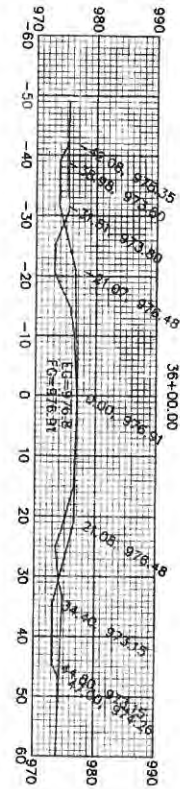
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PROJ No. FM-C085(146)--55-85



74-2085(146)-65-86	SEARCHED	INDEXED	SERIALIZED	FILED
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	FBI - NEW YORK	FBI - NEW YORK	FBI - NEW YORK	FBI - NEW YORK

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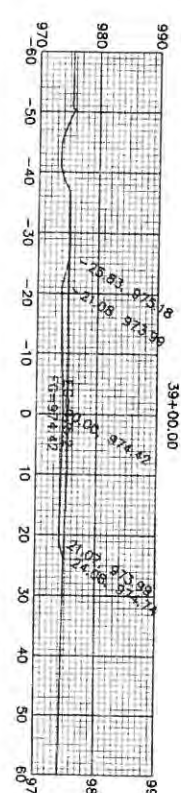
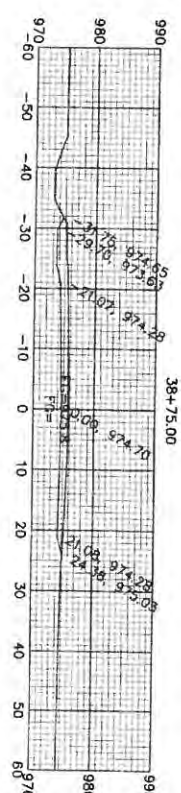
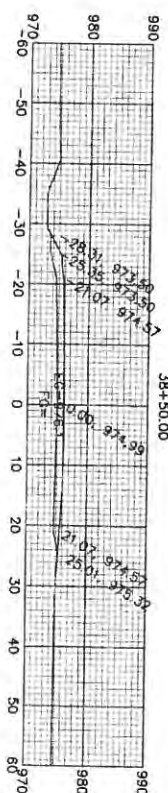
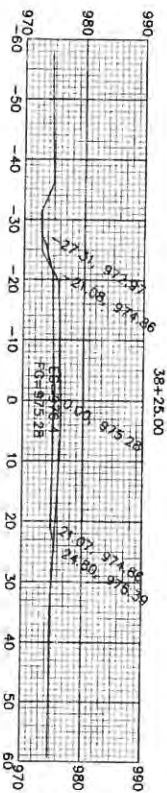
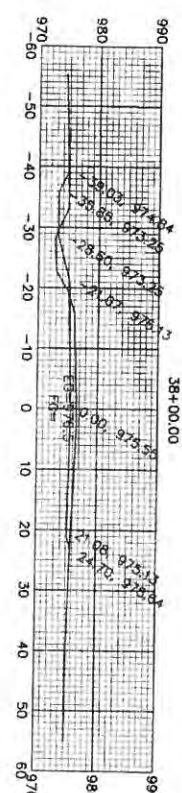
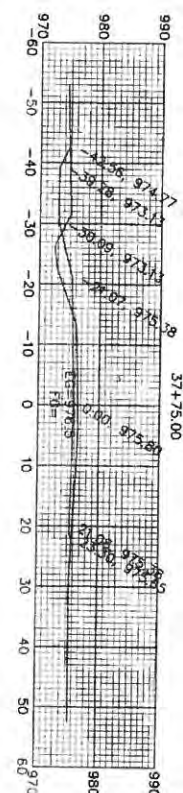
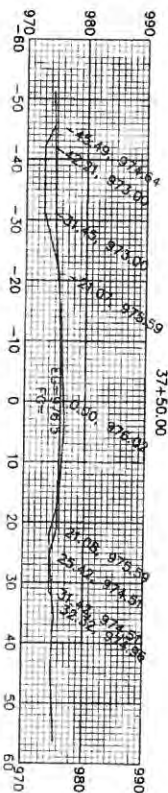
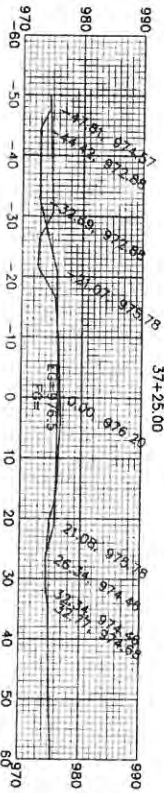
STORY COUNTY

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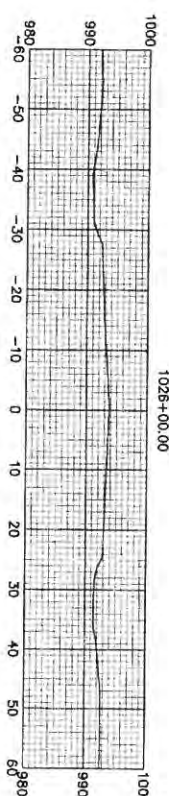
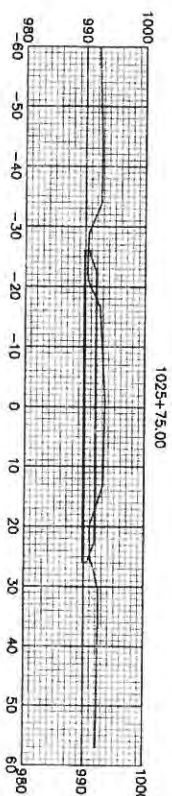
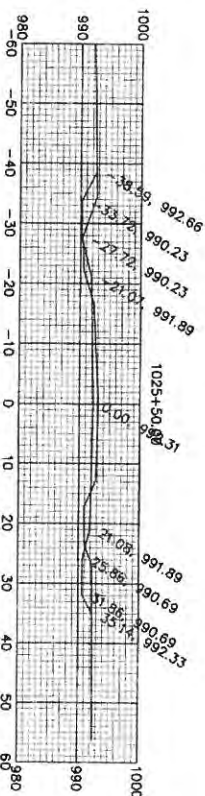
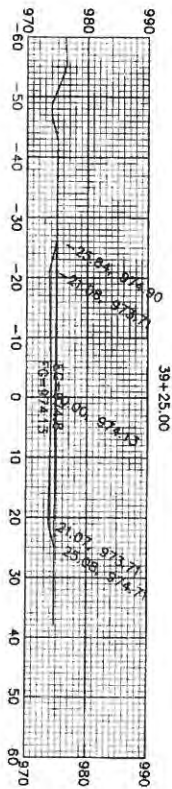
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STORY COUNTY

DATE: 7/14/03
 FILE: FM-C085(146)-46-46
 SHEET: 3 OF 3
 DRAWN BY: J. B. BROWN
 CHECKED BY: J. B. BROWN



STORY COUNTY

Letting Date Feb. 27, 2018

BRIDGE REPLACEMENT-RCB CULVERT

Proj. No. L-C2B--73-85

PROJECT TRAFFIC CONTROL PLAN

THIS ROAD WILL BE CLOSED TO THROUGH TRAFFIC DURING CONSTRUCTION. LOCAL TRAFFIC TO ADJACENT PROPERTIES WILL BE MAINTAINED AS PROVIDED FOR IN ARTICLE 1107.06 OF THE CURRENT STANDARD SPECIFICATIONS FOR IOWA HIGHWAYS. THE PROJECT WILL BE CONDUCTED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR IOWA HIGHWAYS, LATEST EDITION, AND STANDARD TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS AS ADOPTED BY THE DEPARTMENT PER 701 OF THE IOWA ADMINISTRATIVE CODE (IAC) CHAPTER 130. ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED, AND MAINTAINED BY THE CONTRACTOR.

UTILITY INFORMATION

UTILITY COMPANIES WHOSE FACILITIES ARE SHOWN ON THE PLANS OR SHOWN TO BE WITHIN THE CONSTRUCTION LIMITS SHALL BE NOTIFIED BY THE CONTRACTOR OF THE CONSTRUCTION STARTING DATE AND SCHEDULED WORK IN THE AREA.
STORY COUNTY WATER ASSN. 641-782-7011
STORY COUNTY SEWER 641-782-7011
STORY COUNTY ELECTRIC 641-782-7011
CONSUMERS ENERGY 641-724-1642

CONTRACTOR SHALL CALL ONE CALL AT LEAST 48 HOURS PRIOR TO BEGINNING WORK. ONE CALL 1-800-292-6899

It shall be the contractor's responsibility to provide such areas or easements which are not designated to be incorporated into the work. The contractor shall be responsible for obtaining all necessary permits from the U.S. No payment for easement will be allowed for the right-of-way, unless specifically stated in the plans.

IOWA

DEPARTMENT OF TRANSPORTATION

Highway Division
PLANS OF PROPOSED IMPROVEMENT ON THE

LOCAL ROAD SYSTEM STORY COUNTY BRIDGE REPLACEMENT-RCB CULVERT

On 280th St. over Clear Creek; in Sections 2 of T82N-R21W and 35 of T83N-R21W.

Refer to Proposed Form for a list of applicable specifications.

It shall be the contractor's responsibility to provide such areas or easements which are not designated to be incorporated into the work. The contractor shall be responsible for obtaining all necessary permits from the U.S. No payment for easement will be allowed for the right-of-way, unless specifically stated in the plans.

CORPS OF ENGINEERS PRINT

CONSTRUCT THIS PROJECT ACCORDING TO THE REQUIREMENTS OF THE U.S. ARMY CORPS OF ENGINEERS, DISTRICT NO. 13, CHICAGO, ILL. A COPY OF THIS PRINT IS AVAILABLE FROM THE IOWA DISTRICT OFFICE OF THE U.S. ARMY CORPS OF ENGINEERS. CONTRACTORS UPON REQUEST THE U.S. ARMY CORPS OF ENGINEERS RESERVES THE RIGHT TO VISIT THE SITE WITHOUT PRIOR NOTICE.

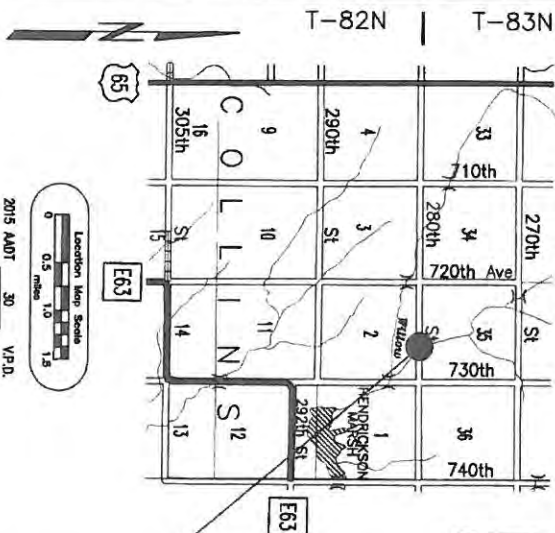
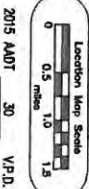
Scales: As Noted



PROJECT LOCATION

ON 280TH ST. OVER CLEAR CREEK; IN SECTION 2 OF T82N-R21W AND SECTION 35 OF T83N-R21W.

DESIGN FOR:
TWIN 12'x7'x42" PRE-CAST CONCRETE BOX CULVERT ON 5' SKEN.



Project No. L-C2B--73-85

Sheet Total: 10

INDEX OF SHEETS

No.	Description
A-01	TITLE SHEET
C-01	QUANTITY INFORMATION SHEET
C-02	GENERAL NOTES SHEET
C-03	TABLETATION SHEET
C-04	CULVERT DETAIL SHEET
D-01	PLAN AND PROFILE SHEET
M-01-M-04	CROSS SECTION SHEETS

MILEAGE SUMMARY

Dv.	Location	Ln. Ft.	Miles
1	STA. 7+75 TO STA. 8+75	200.00	0.038
Total		200.00	0.038

STANDARD ROAD PLANS

Number	Date	Description
DR-101	04-18-17	PIPE CULVERT (BEDDING AND BACKFILL)
DR-102	04-21-15	PIPE CULVERT (COVER AND CEMENT)
DR-103	04-21-15	PIPE CULVERT (INSTALLATION DETAILS)
DR-104	04-18-16	DEPTH OF COVER TABLES FOR CONCRETE AND CORRUGATED PIPE
DR-302	10-20-15	SUBURBAN OUTLETS (STANDARD SUBURBAN, PRESSURE RELEASE AND SPECIAL)
DR-305	04-21-15	EMBANKMENT AND REBUILDING EMBANKMENTS
DR-101	10-17-17	RURAL ENTRANCE
DR-501	10-20-15	ROUTES CLOSED TO TRAFFIC
DR-252	04-18-16	

SEND SHOP DRAWINGS TO:
STORY COUNTY ENGINEER
837 N AVE
NEWADA, IOWA 50201

I hereby certify that this engineering document was prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.
Signed: *[Signature]* Date: 12-19-17
Dariusz B. Miron, P.E., 14851
My license renewed date is December 31, 2018.
(Print or stamp name and title in this space)
(Enter subdivisions unless specified here)

Approved Story County Board of Supervisors
[Signature]
Approved Story County Board of Supervisors
[Signature]

Story County

Project Number: L-C2B--73-85

Sheet No. A.01

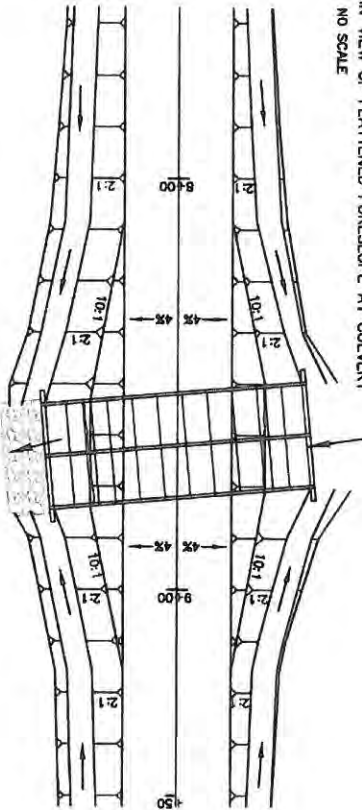
ESTIMATED PROJECT QUANTITIES OF QUANTITIES
(1 DIVISION PROJECT)

ITEM	ITEM CODE	ITEM	UNIT	TOTAL
1	2101-0850001	CLEARING AND GRUBBING	ACRE	0.4
2	2102-2710070	EXCAVATION, CL 10, ROADWAY AND BORROW	CY	443.9
3	2104-2710020	EXCAVATION, CLASS 10, CHANNEL	CY	42.0
4	2401-6745625	REMOVAL OF EXISTING BRIDGE	LS	1.0
5	2402-2720000	EXCAVATION, CLASS 20	CY	157.8
6	2415-2100000	PRECAST CONCRETE BOX CULVERT, TWIN 12X7	LF	42.0
7	2415-2200000	PRECAST CONCRETE BOX CULVERT END SECTION, TWIN 12X7	EACH	2.0
8	2417-1040018	CULVERT, CORRUGATED METAL ENTRANCE PIPE, 18 IN. DIA.	LF	54.0
9	2417-1040036	CULVERT, CORRUGATED METAL ENTRANCE PIPE, 36 IN. DIA.	LF	54.0
10	2502-8211206	SUBDRAIN, PLASTIC PIPE, 6 IN.	LF	45.0
11	2502-8221305	SUBDRAIN, PLASTIC PIPE, 6 IN.	EACH	1.00
12	2507-3250005	ENGINEER FABRIC	SY	50.0
13	2507-6800061	REVIEWMENT, CLASS E	TON	35.0
14	2518-6910000	SAFETY CLOSURE	EACH	4.0
15	2528-8445110	TRAFFIC CONTROL	LS	1.0
16	2533-4980005	MOBILIZATION	LS	1.0

GENERAL NOTES

Story County to stake culvert control and right-of-way, maintain detour signing, furnish and place granular surfacing on roadway, apply seeding and mulching, and place erosion control measures.

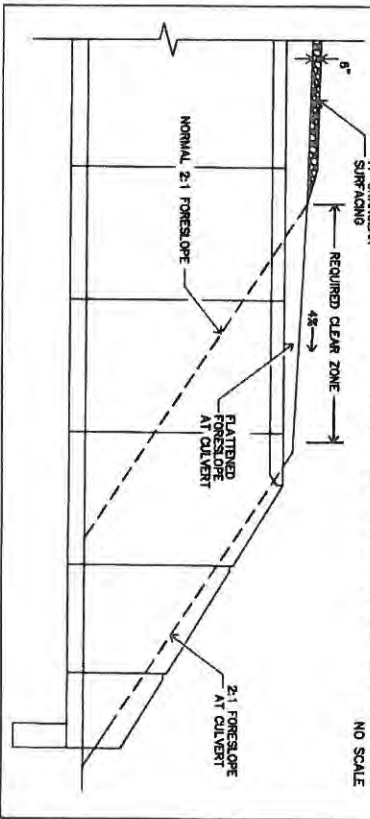
PLAN VIEW OF FLATTENED FORESLOPE AT CULVERT
NO SCALE



ESTIMATE REFERENCE INFORMATION

ITEM NO.	DESCRIPTION
1.	Entire project to be cleared and grubbed from BOP to EOP and from ROW line to ROW line.
2.	Plan quantity is based on approximately 443.9 CY of roadway fill (50% asphalt factory) and 283.6 CY of roadway cut. Contractor shall furnish suitable material from borrow to achieve dirt balance. Type A compaction required. No payment for overhaul will be made. This item includes stripping, stockpiling, and spreading topsoil. Topsoil to be spread to a minimum 4" on all disturbed areas from catch points to edge of road. Slopes to be flattened smooth to allow for seeding.
3.	Item for the excavation for the outlet splash basin and matching the stream at the inlet. Quantity estimated at 22.0 cy for excavating a basin 26'x10'x2' on the outlet and 20.0 cy for inlet matching. Suitable excavated material may be used to supplement the Class 10 Roadway quantity, with the approval of the Engineer.
4.	The existing structure is a single span 24'x18' steel beam bridge with concrete high wall abutments on a 0 skew. Materials from the old structure shall become the property of the Contractor according to article 1104.08 of the Standard Specifications, and removed from the site. Burying removal materials on site will not be allowed.
5.	Item for excavation for culvert. Suitable material may be used to backfill culvert and supplement Class 10 roadway quantity with approval from the Engineer.
6.-7.	Precast RC8 culvert shall be a twin 12'x7'x42" culvert with straight end sections. The culvert shall be supplied by the Contractor as per plan, which includes dropwalls. See Tabulation 104-4 on Sheet C.03 for details. All joints shall be tied flush with the bars. Culvert requires approximately 120 tons of 1" material for culvert bedding. Bedding material shall be incidental to this item.
10.	Item for relocation of existing lines. Road ties are common design features and are usually encountered during construction. Existing road ties that are found during the preliminary survey are identified on these plans; however, occasionally, existing road ties may not be found and only discovered during construction activities. This bid item includes all above, fittings, adaptors, etc. that are necessary to relocate ties. See Tabulation 104-5c on Sheet C.03.
11.	Item includes 1 outlet for 6" road tie.
12.-13.	Items for the construction of rock splash basins at outlet. See Tabulation 100-23 on Sheet C.03 for stationing and quantities, and Typical 4404 on Sheet C.04 for details. Contractor to exercise care in placing revetment during construction of the inlet splash basin to prevent damage to the relocated tie that lies under the basin.
14.	See Tabulation 108-13A on Sheet C.03 for stationing and quantities.
15.	See Standard Road Plan TO-252 for details.

SECTION VIEW OF FLATTENED FORESLOPE AT CULVERT
NO SCALE



GENERAL NOTES

GENERAL NOTES:

Contractor to construct a twin 12"x7'42" pre-cast concrete box culvert on a 5' skew on 280th St. over an unnamed creek and grade approaches.

It shall be the contractor's responsibility to provide waste areas or disposal sites for excess material (excavated material or broken concrete) which is not desirable to be incorporated into the work involved on this project. These areas shall not impact wetlands or "waters of the U.S." No credit for overfill will be allowed for material hauled to these sites. No material shall be placed within the right-of-way, unless specifically stated in the plans.

Construction activities, equipment, and materials shall be kept out of the streams, wetlands, or other bodies of water to the maximum extent practicable.

CONTRACTOR'S WORK AREA:

The Contractor's work and material storage area shall be defined by the Contractor and noted to the Engineer. Any area outside the Contractor's work and material storage area that is disturbed by the Contractor shall be repaired to its original condition by the Contractor and no additional payment shall be made for this work.

UTILITY NOTES:

The Contractor shall call One Call at least 48 hours prior to beginning work. Utility companies found to be located within the construction area are listed on the title sheet of these plans. See Section 1107.15 of the Iowa DOT Standard Specifications For Highway And Bridge Construction, Series 2012, regarding utility related responsibilities.

EMERALD ASH BORER NOTE:

Dispose of all wood material generated as a result of cleaning and/or grubbing according to the Iowa Department of Agriculture and Land Stewardship's Emerald Ash Borer (EAB) Quarantine Order. For more information refer to http://www.iowadnr.gov/cedb_regulations.html.

INDIANA BAT HABITAT:

See Iowa DOT Specification 210.01.

HAZARDOUS MATERIALS NOTES:

A scrape sample was taken from one area of this bridge to get an indication of the existence of the level of total Chromium and total lead. Analysis of total lead on this sample was 10,300 mg/kg. Analysis of total Chromium on this sample was 1,110 mg/kg. The analyses show the existence of these two toxic constituents. Levels indicated by these tests would not be considered hazardous under the federal and state requirements. No other constituents were analyzed. The bidder should conduct a hazardous waste survey and testing and analysis for any purpose other than as an indication of the existence of these two toxic constituents.

The Contractor shall exercise care during the removal of existing structures to prevent any point from coming loose. Should any point come off, the Contractor shall collect and dispose of the point according to Section 2506 of the Standard Specifications.

Before delivery of any salvaged materials that may contain toxic constituents, the Contractor shall provide a

- a copy of the lab results of this scrape sample
- a signature block for the receiving facility to confirm their receipt of this information
- notification that salvaged materials include point that may contain toxic constituents at levels that may be hazardous to employees or the environment

A copy of this notice, signed by the receiving facility, shall be returned to the Engineer before any hazardous material is removed from the site.

All costs associated with removal and disposal of hazardous materials shall be incidented to the "Removal of Existing Bridge" bid item.

An asbestos survey was conducted and found no asbestos at this site.

PRE-CAST CULVERT NOTES

INSTALLATION NOTES:

The culvert shall be a twin 12"x7' pre-cast culvert with abutment end sections.

Precast concrete box culvert sections shall be laid with the grooves end of each section up-grade, and the sections shall be tightly joined. Joint openings between sections should be on light or medium sand. The bottom of the culvert shall be sealed with a flexible water tight 1 inch butyl rope gasket. The joint Butyl rope gasket shall be installed in accordance with the recommendations of the manufacturer and shall extend vertically 6 inches above the bottom flange. All joints shall be trimmed clean on the inside after setting. The contractor shall also place a 2 foot wide piece of engineering fabric around the top and sides of each precast joint. The fabric shall be centered with 1 foot on each side of the joint. The fabric shall be attached to the walls and top of each section to prevent the fabric from slipping off the joint during backfilling operations. Attachment methods shall be approved by the engineer.

All costs including material and labor associated with providing the engineering fabric and installing it as required shall be included in the bid item Precast Concrete Box Culvert. The engineering fabric shall meet the minimum requirements of 4198.07c of the Iowa DOT Standard Specifications. During backfilling the compaction adjacent to the bottom corner rods shall be accomplished with a mechanical hand compactor. The contractor shall furnish and install fitting hole plugs for each section. Lifting holes shall be plugged with a precast concrete plug, sealed and covered with mastic or mortar.

DESIGN REQUIREMENTS:

The precast culvert sections shall meet the minimum requirements of ASTM C 1577. Table 1 sections that are designed for combined earth dead load and ASDM H-43. Any precast box culvert designs submitted that vary from the ASTM C 1577 standard, shall be designed and sealed by a professional engineer, duly registered in the State of Iowa. Minimum length of precast sections shall be 4.0 feet. Minimum culvert wall thickness shall be 8 inches.

PRE-CONSTRUCTION NOTES:

The Contractor shall submit details of the proposed precast box sections to the Story County engineers office for approval. These details shall include a station plan, culvert barrel cross sections showing steel, and end section details. The length in linear feet of precast concrete box culvert will be based on the plan quantity.

For the number of linear feet given on the plan, the Contractor will be paid the contract unit price per linear foot. The payment shall be full compensation for furnishing all materials, labor and equipment necessary to complete the work except for items in end sections and Class 20 Excavation.

For each precast box culvert end section installed the Contractor will be paid the contract price for each. The payment shall be full compensation for furnishing all materials (including dropwalls), labor and equipment necessary to complete the work except for items in precast concrete box culvert and Class 20 Excavation.

Dropwalls shall be precast.

The Contractor shall furnish culvert ties for all joints. The main section joints will have one tie on each side of the barrel and the last barrel section will be attached to the end sections with two ties per side. Culvert ties shall be included in the cost for precast concrete box culvert. The rods will be 1 inch in diameter steel and shall meet requirements of ASTM A 709 grade 35 or equivalent. Culvert tie assemblies shall be galvanized or painted according to 2408.30 of the Iowa DOT Standard Specifications. Keytie topcoat not required.

TABULATION OF SAFETY CLOSURES

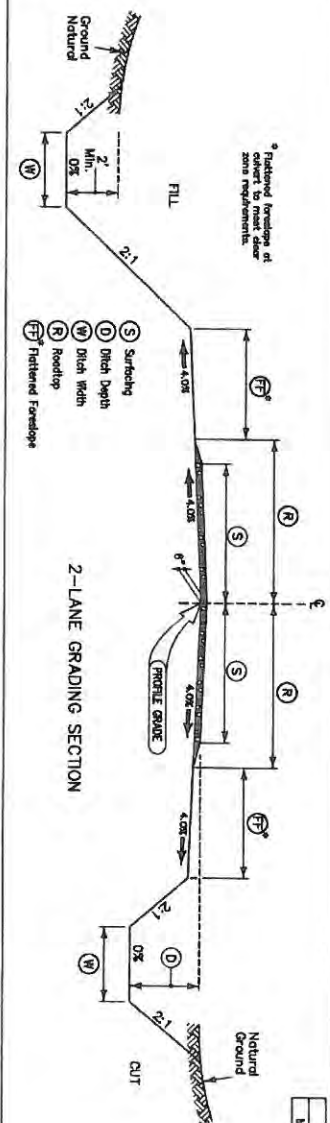
Refer to Section 2106 of the Standard Specifications

STATION	CLOSURE TYPE		REMARKS
	ROAD QTY.	HAZARD QTY.	
7+80.0	1	1	
7+78.0		1	
8+78.0	1	1	
10+00.0			
	2	2	TOTAL = 4.00

Normal section shown may be modified
appropriately to areas of improvement
and cross sections for
drainage structures and
structures designed by the Engineer.

See Plan & Profile sheets
and cross sections for
drainage structures and
structures designed by the Engineer.

LOCATION		DIMENSIONS									
ROAD IDENTIFICATION	SIDE	STATION TO STATION	(F)	(D)	(W)	(R)	(S)	(F)	(D)	(W)	(R)
280th St.	Lt.	7+75.0	8+08.9	8+08.9	8+08.9	8+08.9	8+08.9	8+08.9	8+08.9	8+08.9	8+08.9
280th St.	Lt.	8+08.9	8+48.1	8+48.1	8+48.1	8+48.1	8+48.1	8+48.1	8+48.1	8+48.1	8+48.1
280th St.	Lt.	8+48.1	8+75.2	8+75.2	8+75.2	8+75.2	8+75.2	8+75.2	8+75.2	8+75.2	8+75.2
280th St.	Lt.	8+75.2	9+18.8	9+18.8	9+18.8	9+18.8	9+18.8	9+18.8	9+18.8	9+18.8	9+18.8
280th St.	Lt.	9+18.8	9+75.0	9+75.0	9+75.0	9+75.0	9+75.0	9+75.0	9+75.0	9+75.0	9+75.0
280th St.	Lt.	9+75.0	10+12.1	10+12.1	10+12.1	10+12.1	10+12.1	10+12.1	10+12.1	10+12.1	10+12.1
280th St.	Lt.	10+12.1	10+51.0	10+51.0	10+51.0	10+51.0	10+51.0	10+51.0	10+51.0	10+51.0	10+51.0
280th St.	Lt.	10+51.0	10+83.1	10+83.1	10+83.1	10+83.1	10+83.1	10+83.1	10+83.1	10+83.1	10+83.1
280th St.	Lt.	10+83.1	11+23.4	11+23.4	11+23.4	11+23.4	11+23.4	11+23.4	11+23.4	11+23.4	11+23.4
280th St.	Lt.	11+23.4	11+75.0	11+75.0	11+75.0	11+75.0	11+75.0	11+75.0	11+75.0	11+75.0	11+75.0



DRAINAGE STRUCTURES BY CULVERT CONTRACTOR

Location	Size	Type	Length ft.	No. of Apertures	Flow Line Elevation	Dimensions - Lk. Ft.	Slow Ahead	By Road Contractor	Remarks
8+86.00	12x7	Twin RCB	42.0	2	896.20	21.1	20.9	167.8	167.8
8+00.0	12x7	CMP	54.0	-	896.95	27.0	27.0	167.8	167.8
8+21.0	12x7	CMP	54.0	-	897.70	27.0	27.0	167.8	167.8

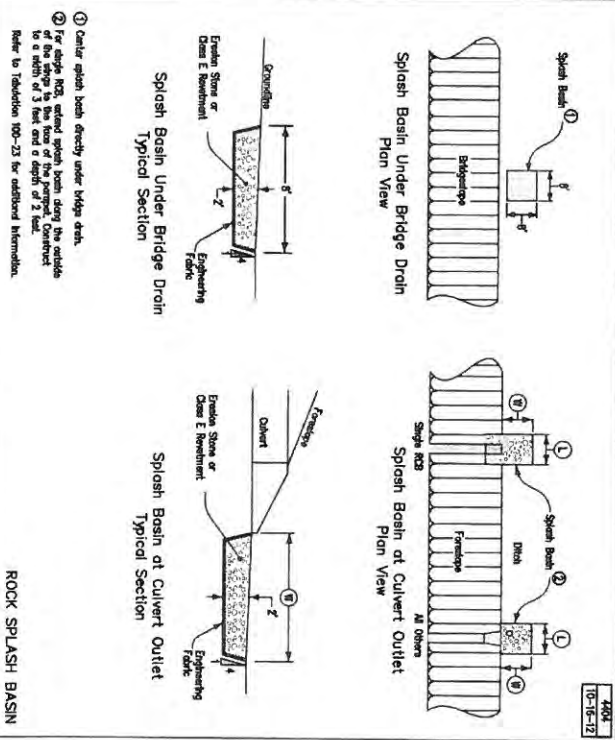
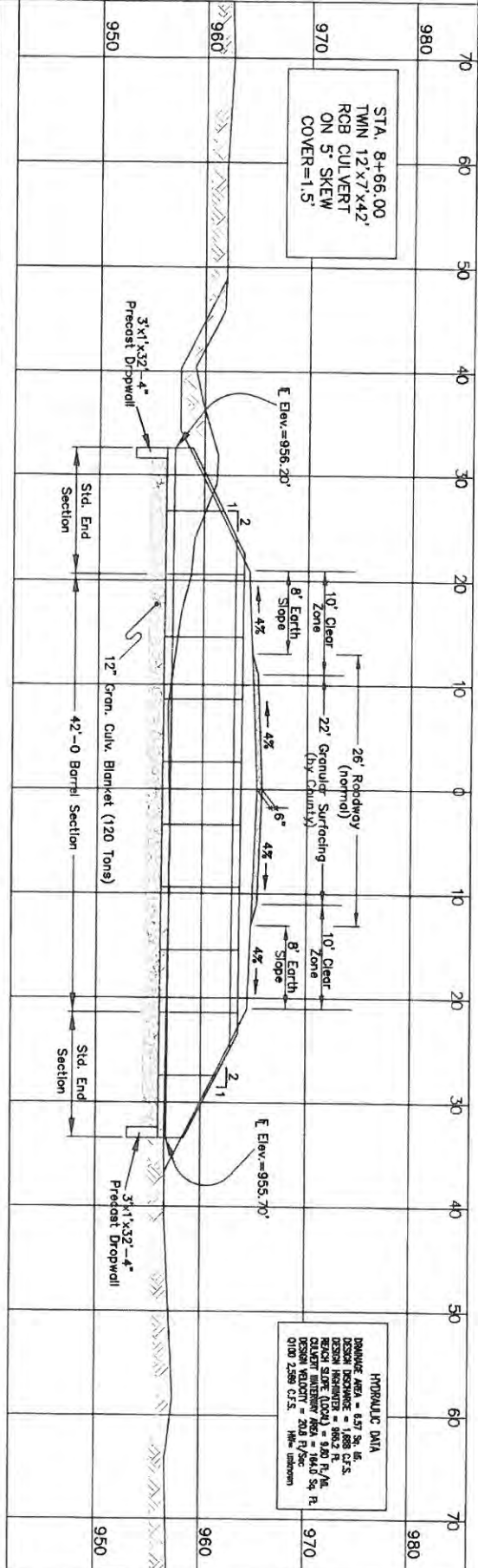
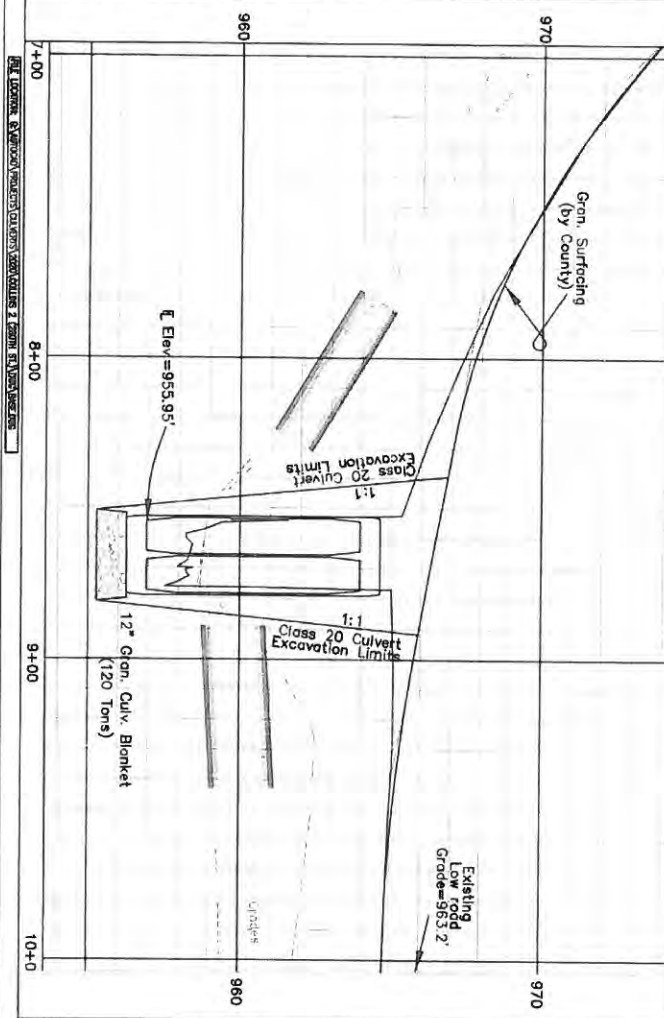
LIST OF SUBDRAIN WORK

No.	Station to Station	Type of Installation	Pipe C.M.P. Control	Apertures	Outlets	Remarks
1	8+48.0	11' RL	DR-301	DR-303	DR-304	DR-305
2			DR-303	DR-303	DR-304	DR-305
3			DR-303	DR-303	DR-304	DR-305

ROCK EROSION CONTROL

Location	Begin Station	End Station	Side Lk./Rt.	Type 1	Type 2	Type 3	Type 4	Type 5	Remarks
280th St.	8+54.8	8+83.6	37.8' Rt.	28	10				Placed at RCB outlet.

PROJ No. L-C2B--73-85



STORY COUNTY

ROCK SPLASH BASIN

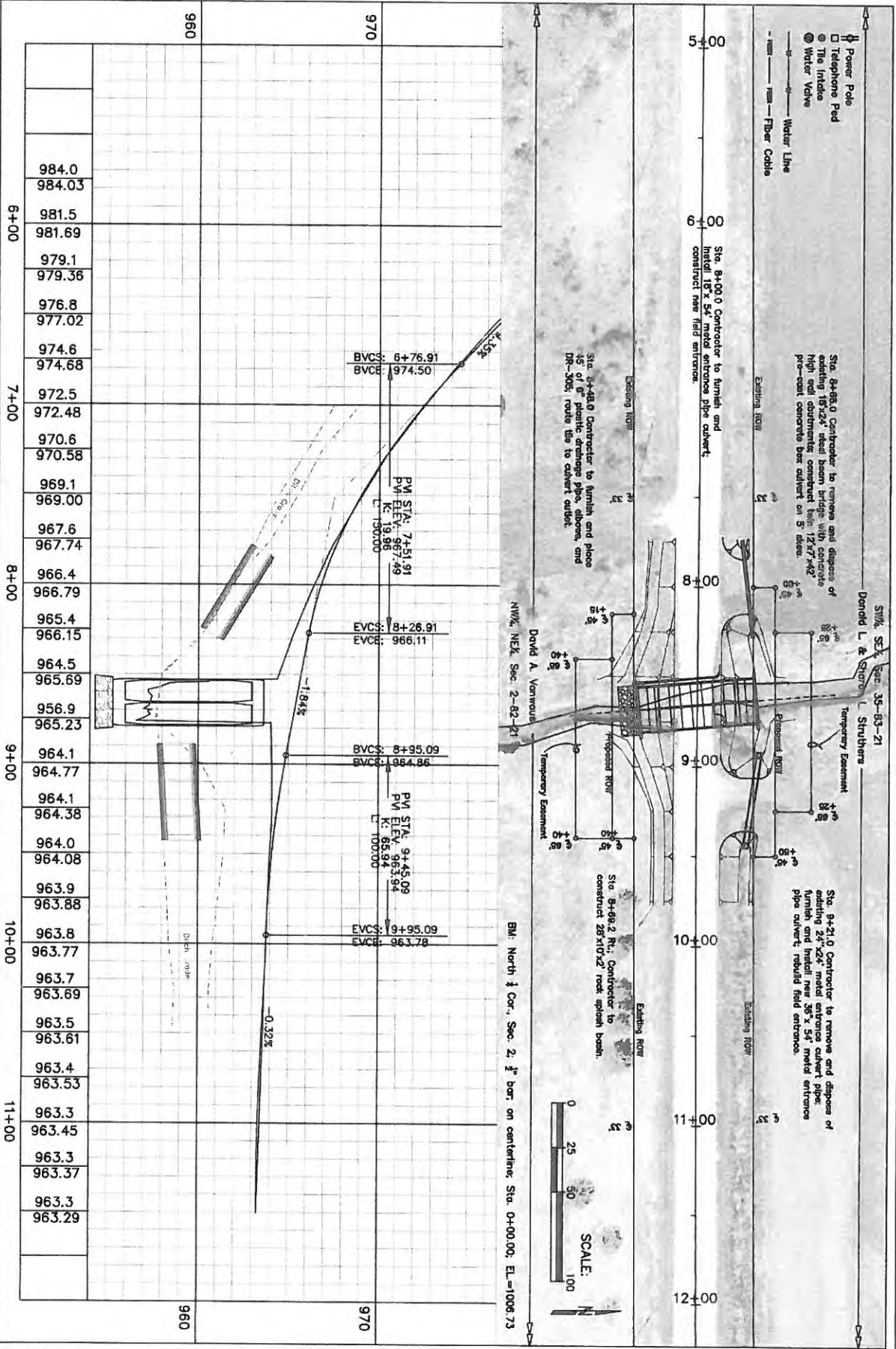
PLAN AND PROFILE SHEET

PROJ No. L-C2B--73-85

STORY COUNTY

STORY COUNTY

L-C2B--73-85



CROSS SECTIONS SHEET

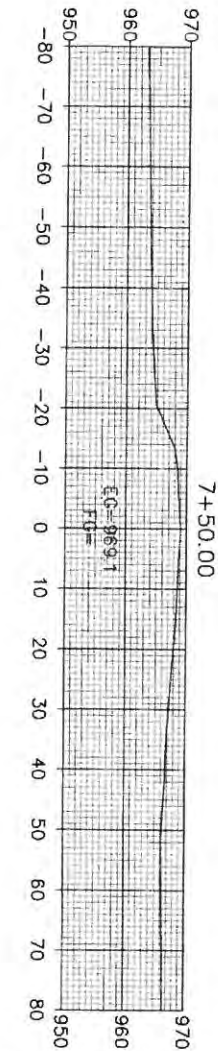
PROJ No. L-C2B--73-85

SEE LOCATION MAP FOR PROJECT LOCATION AND STATIONING

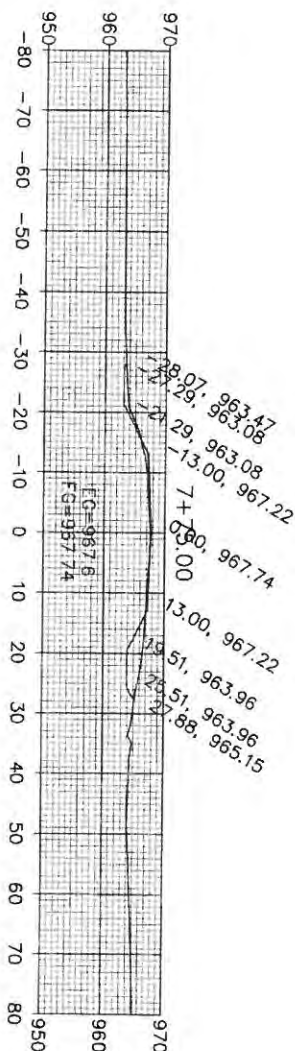
STORY COUNTY

PROJECT L-C2B--73-85

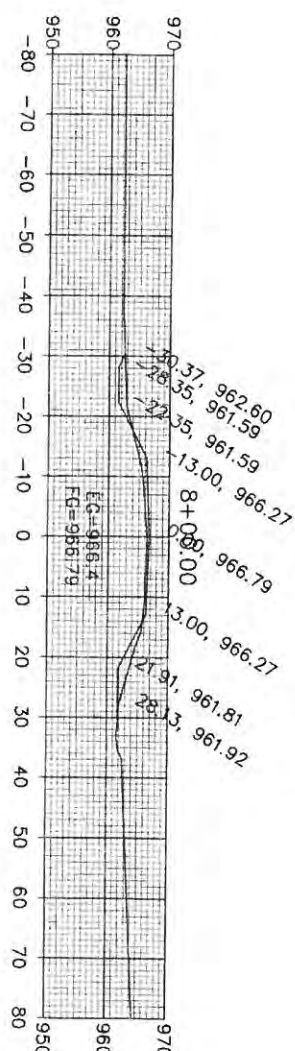
DATE 10/1/85



Sta. 7+50.00	
Cut Area	0.00
Fill Area	0.00
Cut Vol	0.00
Fill Vol	0.00

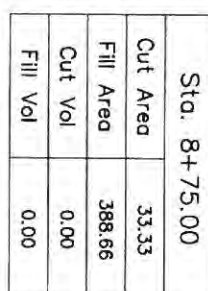
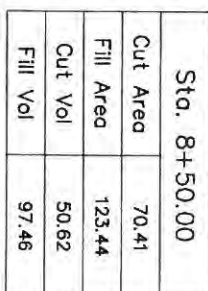
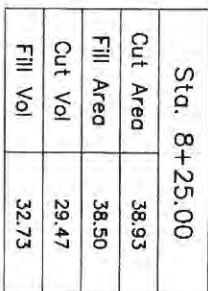


Sta. 7+75.00	
Cut Area	28.74
Fill Area	6.50
Cut Vol	13.31
Fill Vol	3.91



Sta. 8+00.00	
Cut Area	24.73
Fill Area	15.88
Cut Vol	24.75
Fill Vol	13.47

PROJ No. L-C2B--73-85



CROSS SECTIONS SHEET

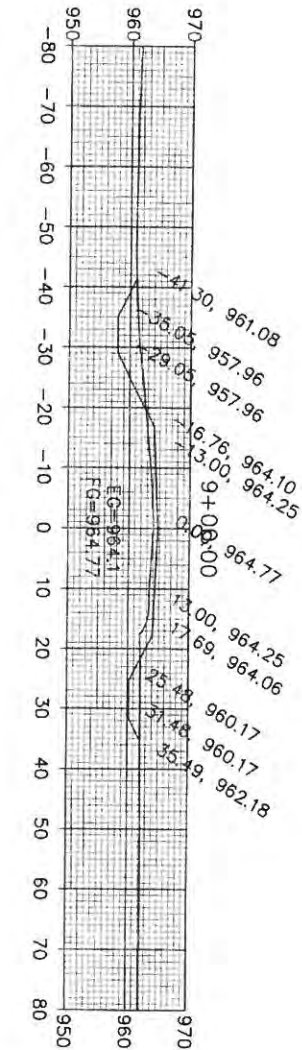
PROJ No. L-C2B--73-85

THE FOLLOWING INFORMATION PERTAINS TO THE CROSS SECTIONS SHEET:

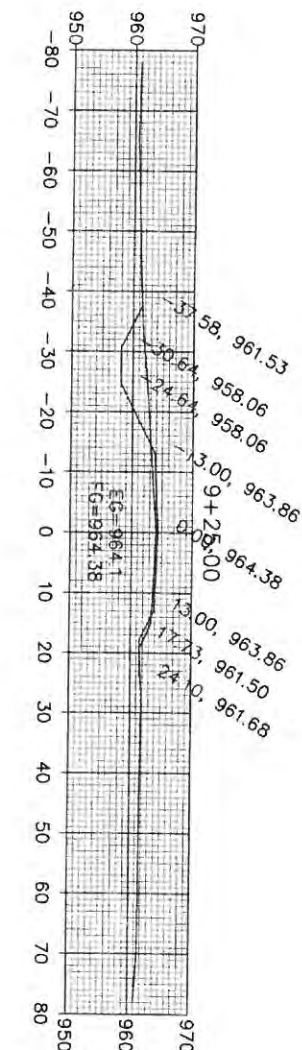
STORY COUNTY

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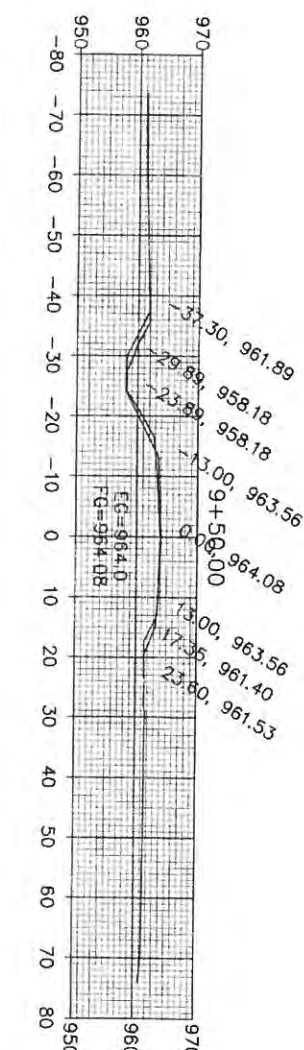
DATE: 10/1/85



Sta. 9+00.00	
Cut Area	69.98
Fill Area	35.53
Cut Vol	47.83
Fill Vol	255.30



Sta. 9+25.00	
Cut Area	63.19
Fill Area	10.54
Cut Vol	61.66
Fill Vol	27.73



Sta. 9+50.00	
Cut Area	16.61
Fill Area	4.85
Cut Vol	36.95
Fill Vol	9.26

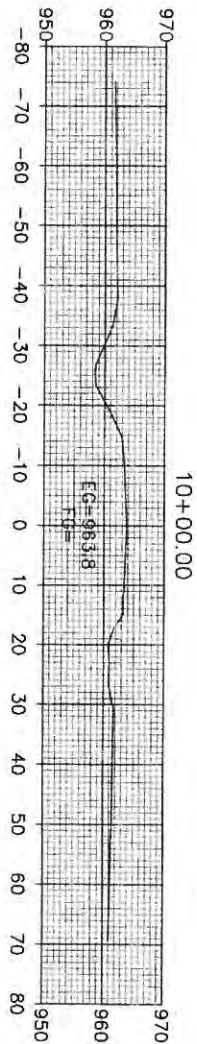
CROSS SECTIONS SHEET

PROJ No. L-C2B--73-85

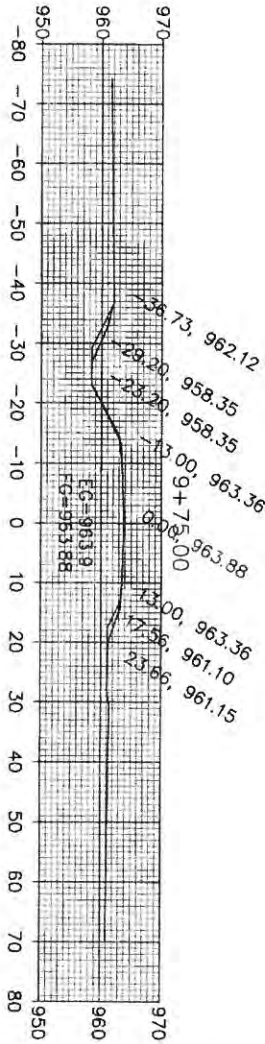
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STORY COUNTY

FILE LOCATION: 8-201002 PROJECTS/STATIONING/STATIONING 1. STATION 97.1000-97.1000



Sta. 10+00.00	
Cut Area	0.00
Fill Area	0.00
Cut Vol	5.67
Fill Vol	0.54



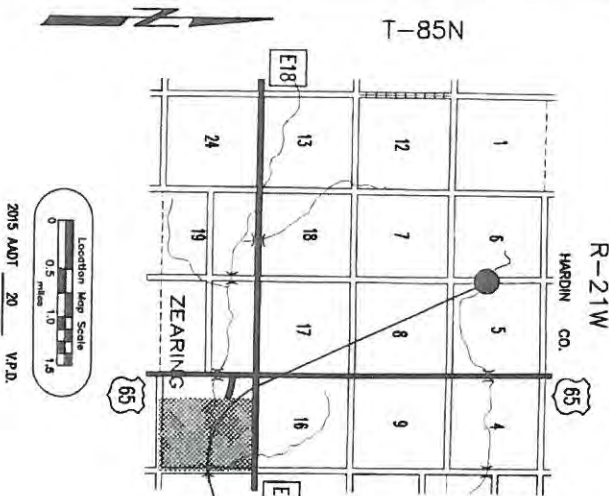
Sta. 9+75.00	
Cut Area	12.25
Fill Area	0.90
Cut Vol	13.36
Fill Vol	3.46

STORY COUNTY

RCB CULVERT REPLACEMENT-TWIN BOX Proj. No. L-LIN5--73-85

Letting Date Feb. 27, 2018

THE IOWA STATE ROAD DESIGNATION IS SHOWN WITHIN 5 MILES OF THE PROJECT.



Location Map Scale
0 0.5 1.0 1.5
miles
2015 AADT 20 VPD

PROJECT LOCATION
STA 3+61.40 ON 890TH AVE.;
0.094 MILES SOUTH OF THE
WEST QUARTER CORNER OF
SECTION 5-85-21.

DESIGN FOR:
SINGLE 12'x14' PRE-CAST
CONCRETE BOX CULVERT
ON 4° SKEW



CONSTRUCT THIS PROJECT ACCORDING TO THE REQUIREMENTS OF U.S. ARMY CORPS OF ENGINEERS STANDARD DRAWINGS AND SPECIFICATIONS, LATEST EDITION, AND THE IOWA DOT MANUAL. A COPY OF THIS PERMIT IS AVAILABLE FROM THE IOWA DOT WEBSITE (http://www.iowadot.com/permits/permits.htm). THE U.S. ARMY CORPS OF ENGINEERS RESERVES THE RIGHT TO VISIT THE SITE WITHOUT PRIOR NOTICE.

Scales: As Noted

Refer to Proposal Form for a list of applicable specifications.

On 690th Ave., 0.094 miles South of the
West Quarter Corner of Section 5-85-21.

SECONDARY ROAD SYSTEM STORY COUNTY RCB CULVERT REPLACEMENT -TWIN BOX

IOWA
DEPARTMENT OF TRANSPORTATION
Highway Division
PLANS OF PROPOSED IMPROVEMENT ON THE

Project No. L-LIN5--73-85

INDEX OF SHEETS

No.	Description
A-01	TITLE SHEET
C-01	QUANTITY INFORMATION SHEET
C-02	GENERAL NOTES SHEET
C-03	VEGETATION SHEET
C-04	CULVERT DETAIL SHEET
D-01	PLAN AND PROFILE SHEET
W-01	CROSS SECTIONS
W-03	

MILEAGE SUMMARY

Dw.	Location	Ln. Ft.	Miles
1	STA. 2+80.00 TO STA. 4+50.00	200.00	0.36
Total		200.00	0.36

STANDARD ROAD PLANS

Number	Date	Title
DR-101	04-10-17	PIPE CULVERT (BEDDING AND BACKFILL)
DR-302	10-20-15	SUBURBAN STANDARD (PAV. TILE REPLACEMENT)
DR-305	04-23-15	SUBURBAN OUTLETS (STANDARD, PRESSURE RELEASE AND SPECIAL)
TC-202	04-19-18	ROUTES CLOSED TO TRAFFIC

SEND SHOP DRAWINGS TO:
STORY COUNTY ENGINEER
837 N. AVE.
NEVADA, IOWA 50201



I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.
Doreen R. Hoen, P.E. 14891
12-19-17
Date

Approved Story County
Board of Supervisors
[Signature]
Marilyn

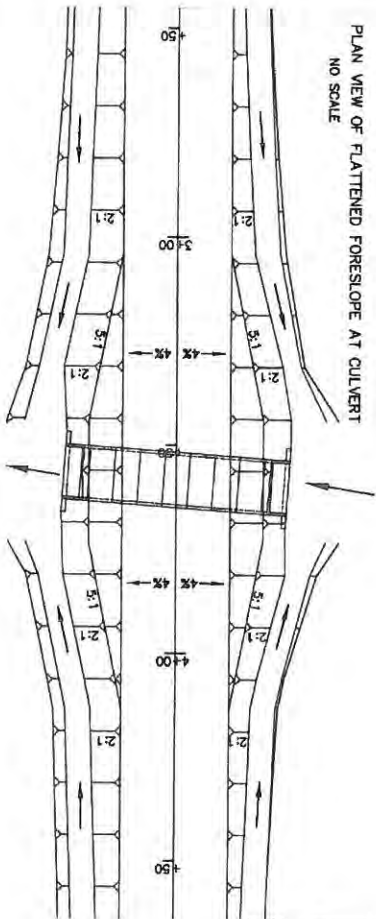
Story County Project Number: L-LIN5--73-85 Sheet No. A.01

100-1A
07-15-97

Contractor shall maintain access to individual properties during construction, and any associated work shall be considered incidental to this project.

Story County to stake culvert control and right-of-way, apply seeding and mulching, place erosion control devices, and granular surfacing on roadway.

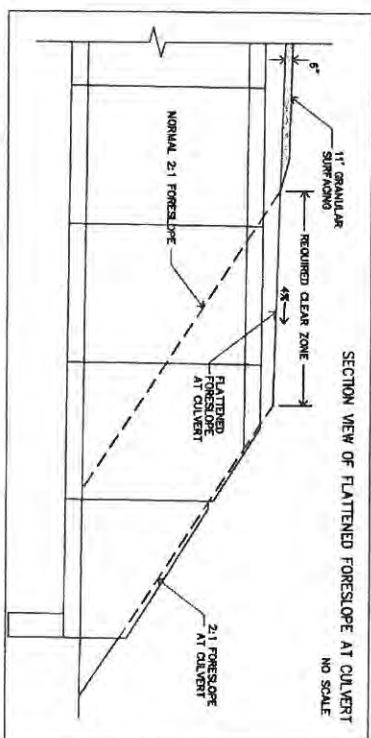
PLAN VIEW OF FLATTENED FORESLOPE AT CULVERT
NO SCALE



DESCRIPTION

1.	The entire project shall be cleared and grubbed from BGP to EOP and from ROW line to ROW line.
2.	Plan quantity is based on approximately 274.8 CY of fill (30% shrink factor) and 215.0 CY of cut. Contractor to supply and place all existing curb, drainage, Type A compaction required. No payment for overhead will be made. Additional 5% of this item includes the stripping, stockpiling, and spreading topsoil. Topsoil to be placed to a minimum of 4" on all disturbed areas from each point to edge of road. Slopes to be finished smooth to allow for seeding. See Cross Section sheets for station-by-station dirt quantities.
3.	Item for excavation below streambed for rock splash basin. Excavated material may be used as fill for any channel relocation or diked and wasted on roadway foreslopes.
4.	Material from the old structure shall become the property of the Contractor according to article 1104.08 of the Standard Specifications, and removed from site. The existing structure is a single 8'x18' concrete box culvert on a 10' skew with concrete wing walls and barrier rails.
5.	Item for excavation for culvert placement. Suitable material may be used to backfill culvert and supplement Class 10 roadway quantity with approval from the Engineer.
6.-7.	Present RCB culvert shall be a single 12'x7'x42" with struts and sections on the outlet and inlet. The culvert shall be supplied by the Contractor as per plan, which includes dropwalls. See Tabulation 104-4 on Sheet C.03 and notes on Sheet C.02 for details. All joints shall be wrapped with fabric bedding and tied with the Cors. Approximately 72 tons of 1" rock is required under the box for bedding. The bedding is incidental to bid this item.
8.-9.	Item for relocation of field tile; may also be used for the relocation of existing road tiles. Road tiles are common design features and are usually encountered during construction. Existing road tiles that are found during the preliminary survey are identified on these plans; however, occasionally, additional road tiles may not be found during the survey and only discovered during construction activities. This bid item includes tiles found as well as tiles not found, but believed to exist.
10.-11.	Items for the construction of rock splash basins of both inlet and outlet. See Tabulation 100-23 on Sheet C.03 for stationing and quantities, and Typical 4404 on Sheet C.04 for details.
12.	Item for the removal, stockpiling, and reuse of existing rebar and broken concrete. Preliminary survey shows several pieces of broken concrete lying in the streambed and on the stream banks. Rebar and broken concrete shall be reused to armor the streambanks at culvert outlet. Quantity is an estimate only. Contractor shall be paid actual quantity by measuring the stockpile and computing its volume. Basis of Payment shall be in cubic yards as computed by measurements.
13.	See Tabulation 108-13A on Sheet C.03 for stationing and quantities.
14.	See Standard Road Plan TC-232 for details.

SECTION VIEW OF FLATTENED FORESLOPE AT CULVERT



GENERAL NOTES:

Contractor to construct a single 12x7'x42" pre-cast concrete box culvert on a 4° skew, on 890th Ave. over an unnamed field waterway, and grade approaches.

It shall be the contractor's responsibility to provide waste areas or disposal sites for excess material (excavated material or broken concrete) which is not desirable to be incorporated into the work involved on the project. These areas shall not impact wetlands or "waters Of The U.S." No payment for overhead will be allowed for material hauled to these sites. No material shall be placed within the right-of-way, unless specifically stated in the plans.

Construction activities, equipment, and materials shall be kept out of the streams, wetlands, or other bodies of water to the maximum extent practicable.

CONTRACTOR'S WORK AREA:

The Contractor's work and material storage area shall be defined by the Contractor and noted to the Engineer. Any area outside the Contractor's work and material storage area that is disturbed by the Contractor shall be repaired to its original condition by the Contractor and no additional payment shall be made for this work.

UTILITY NOTES:

The contractor shall call one toll at least 48 hours prior to beginning work. Utility companies found to be located with in the construction area are listed on the title sheet of these plans. See Section 1107.15 of the Iowa DOT Standard Specifications for Highway And Bridge Construction, Series 2012, regarding utility related responsibilities.

SHOP DRAWING NOTES:

Working drawings and calculations shall be furnished by the Contractor and certified by a licensed engineer in the State of Iowa, and shall be submitted to the Story County Engineer for review and approval. Refer to Section 1105.03 for additional information.

EMERALD ASH BORER NOTE:

dispose of on wood material generated as a result of clearing and/or grubbing according to the Iowa Department of Agriculture and Land Stewardship's Emerald Ash Borer (EAB) Quarantine Order. For more information refer to http://www.iowatreepests.com/eab_regulations.html.

INDIANA BAT HABITAT:

See Iowa DOT Specification Section 2101.01

TABULATION OF SAFETY CLOSURES

Refer to Section 2510 of the Standard Specifications

STATION	CLOSURE TYPE		REMARKS
	ROAD QTY.	HAZARD QTY.	
2+50.0	1		
2+75.0		1	
4+00.0		1	
4+50.0	1		
	2	2	TOTAL = 4.00

GENERAL NOTES

PRE-CAST CULVERT NOTES

INSTALLATION NOTES:

Precast concrete box cistern sections shall be laid with the grooves and the sections shall be tightly joined. Joint openings between sections should be as tight as practicable and limited to a maximum of $\frac{1}{8}$ inch openings. The joint between the bottom of the cistern shall be sealed with a flexible water tight 1 inch bury rope gasket as per Materials L.A. 491.03.6. Bury ropes shall be conformances with the recommendations of the manufacturer and shall extend vertically 6 inches above the bottom flange. All joints shall be sealed on the inside after setting. The contractor shall also place a 2 inch wide piece of engineering fabric around the top and sides of the cistern and shall be covered with 1 foot on each side of the joint. The fabric shall be attached to the walls and top of the cistern to prevent the fabric from slipping off the joint during backfilling operations. Attachment methods shall be approved by the engineer.

An extra including materials, equipment, and labor necessary for installing the culvert as detailed herein, shall be included in the bid item Present Concrete Box Culvert. The engineering fabric shall meet the material requirements or set forth in 4185.01 of the Iowa DOT Standard Specifications. During backfilling the composition adjacent to the bottom corner wall shall be accomplished with a mechanical hand compactor. The contractor shall furnish and install fitting hole plugs for each section. Lifting holes shall be plugged with a precast concrete plug, sealed and covered with mastic or mortar.

DESIGN REQUIREMENTS:

The precast culvert sections shall meet the minimum requirements of ASTM C 1377. Table 1 sections that are designed for the design earth and flood and ASHSTO HL-93 live load conditions. Any precast box culvert that is designed for a design length of precast sections shall be designed and checked by a professional engineer, currently registered in the State of Iowa. Minimum length of precast sections shall be 4.0 feet. Minimum culvert wall thickness shall be 8 inches.

PRE-CONSTRUCTION NOTES:

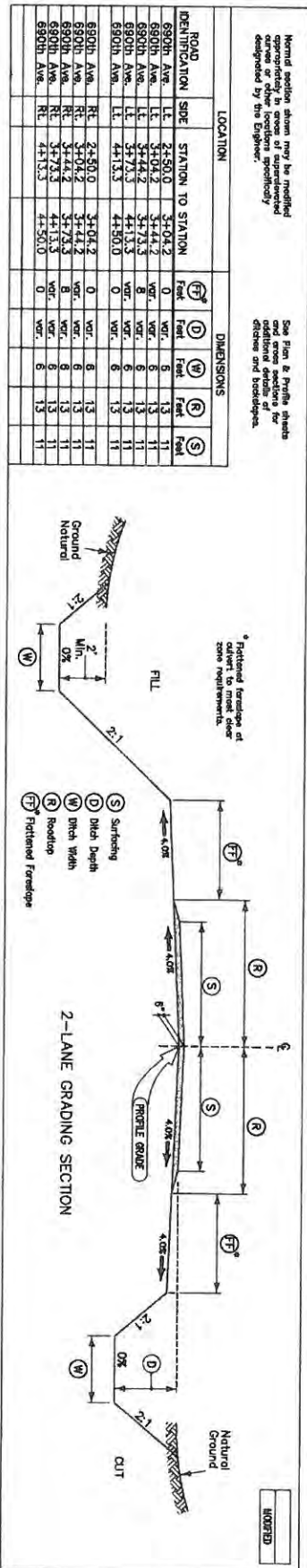
The contractor shall submit details of the proposed precast box sections to the Story County engineers office for approval. These details shall include a situation plan, culvert barrel cross sections showing steel, and end section details. The length in linear feet of precast concrete box culvert will be based on the plan quantity.

For the number of linear feet given on the plan, the Contractor will be paid the contract unit price per linear foot. The payment shall be full compensation for furnishing all materials, labor and equipment necessary to complete the work except for items in and sections and Class 20 Excavation.

For each precast box culvert and section installed the Contractor will be paid the contract price for each. The payment shall be full compensation for furnishing all materials (including portlands and dropalls), labor and equipment necessary to complete the work except for items in precast concrete box culvert and Class 20 Excavation.

Drop walls shall be precast.

The Contractor shall furnish clean steel for all joints. The main section joints will have one (1) on each side of the barrel and the joint barrel section will be attached to the end sections with two (2) per side. Current ties shall be included in the coat for precast concrete box culvert. The rods will be 1 inch in diameter steel and shall meet requirements of ASTM A 709 grade 36 or equal. Current tie assemblies shall be galvanized or painted according to 2405.30 of the Iowa DOT Standard Specifications. Acrylic topcoat not required.



DRAINAGE STRUCTURES BY CULVERT CONTRACTOR

Location	Size	Type	Length No. of New Feet	Flow Line Direction	Dimensions - Ln. Ft.				Sewer Ahead				By Road Contractor				Floodable*																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Total	Left	Right	Other	Degrees	Lt.	Rt.	Ditch Location Station	Top Elev.	Type	Comp. Backfill	Qu. Yds.	Floodable Backfill (A)	Floodable Backfill (B)	Floodable Backfill (A+B)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
3+61.40	12x7	Single RCB	42.0	Left	1110.65	1110.50																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										</

LIST OF SUBDRAIN WORK

No.	Location	Type of Installation	Pipe	Apertures	Outlets	Connected Pipe	Trench	Granular Material	Porous Backfill	Class "A" Crushed Stone*	Remarks
1	3+42.0 LL 3+42.0 RT	DR-301, DR-302, DR-303	Plastic	10	10						Field drainage tile relocation

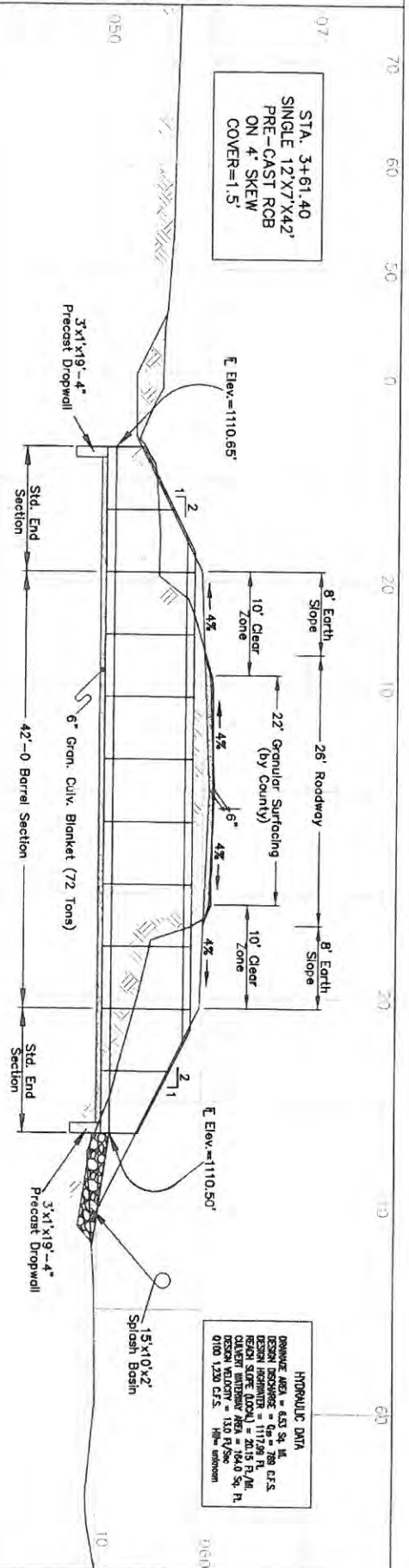
ROCK DITCH CHECK/DITCHES/FUMES/SPLASH BASINS/SLOPE PROTECTION

Road Identification	Station	Side	Mandatory* Location (yes or no)	Rock Ditch Check	Rock Ditch	Rock Fume	Rock Splash Basin	Rock Slope Protection	Erosion Stone TON	Eng. Fabric SY	Remarks
890th Ave.	3+58.8	36 RT	yes				X		15	10	Placed at RCB outlet.

CULVERT DETAIL SHEET

PROJ No. L-LIN5--73-85

THE DESIGNER'S RESPONSIBILITY IS TO PROVIDE A DESIGN THAT MEETS THE REQUIREMENTS OF THE PROJECT.



STA. 3+61.40
SINGLE 12'X7'X42"
PRE-CAST RCB
ON 4' SKEW
COVER=1.5'

Elev.=1110.65'

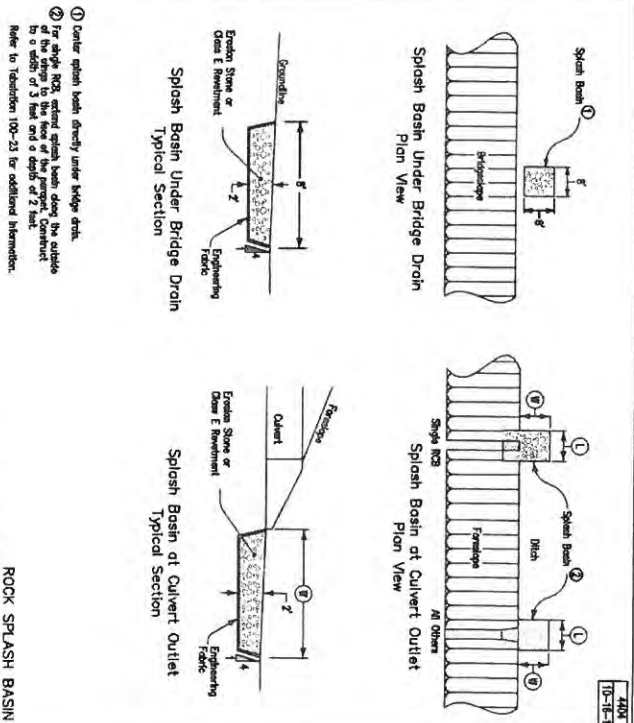
Elev.=1110.50'

HYDRAULIC DATA
DRAINAGE AREA = 6.51 Sq. Mi.
DESIGN DISCHARGE = $Q_d = 788$ C.F.S.
DESIGN HEADWATER = 1117.28 Ft. A.M.
DESIGN SLOPE (0.0024) = 20.15 Ft./Mi.
DESIGN VELOCITY = 10.0 Ft./Sec.
DESIGN FLOODING = 10.0 Ft. A.M.
DESIGN FLOODING = 10.0 Ft. A.M.

STORY COUNTY

L-LIN5--73-85

ROCK SPLASH BASIN



- Center splash basin directly under bridge drain.
- For splash basins located under bridge drains, the outside of the basin shall be at least 3 feet from the centerline of the roadway.

Refer to Revision 100-25 for additional information.

4404
15-16-73

PLAN AND PROFILE SHEET

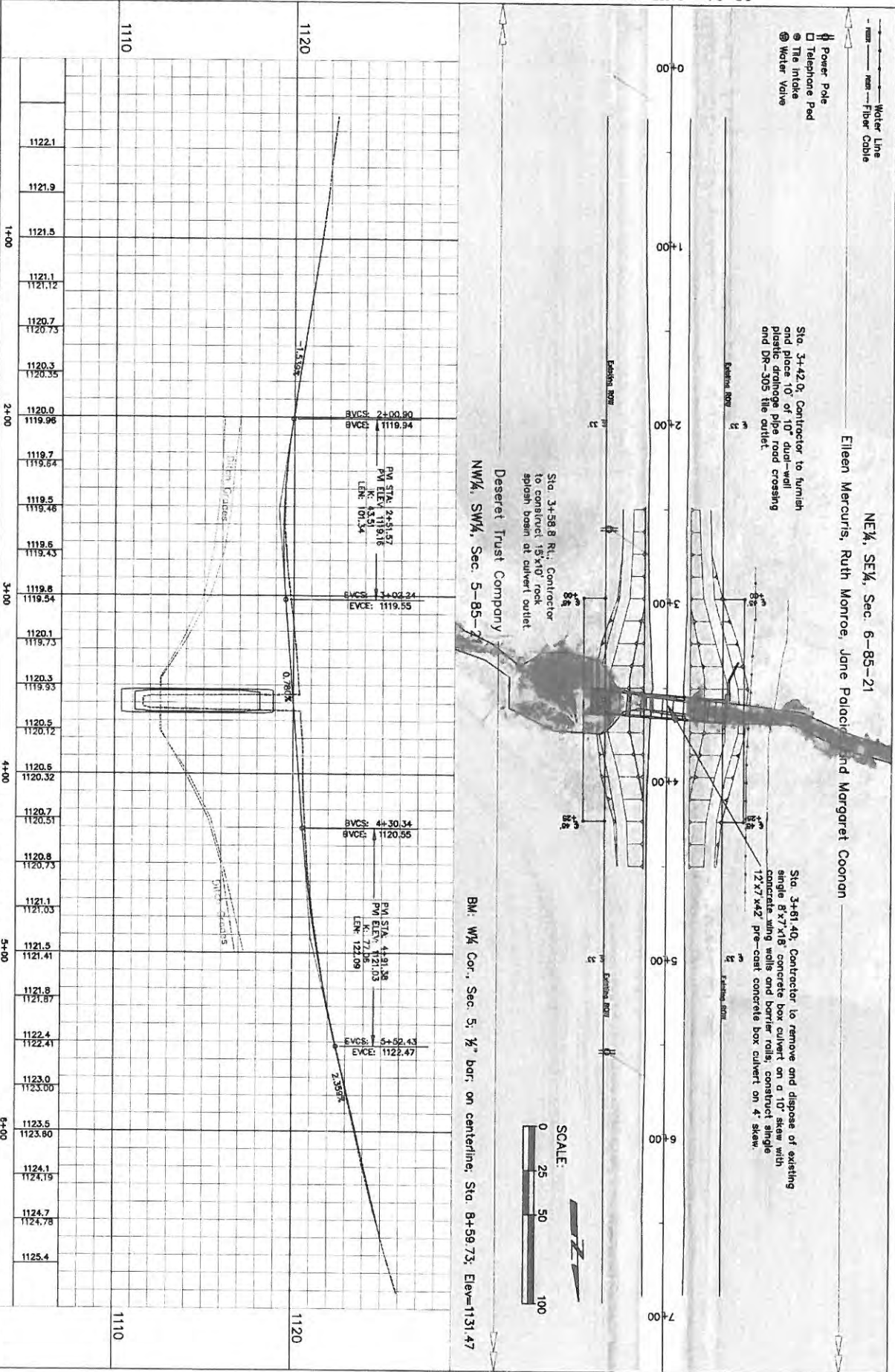
PROJ No. L-LIN5--73-85

THE WORKING DRAWINGS SHALL BE USED IN ACCORDANCE WITH THE SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 1983 EDITION, AS AMENDED.

STORY COUNTY

1-4-1985-73-85

1-4-1985-73-85



CROSS SECTIONS SHEET

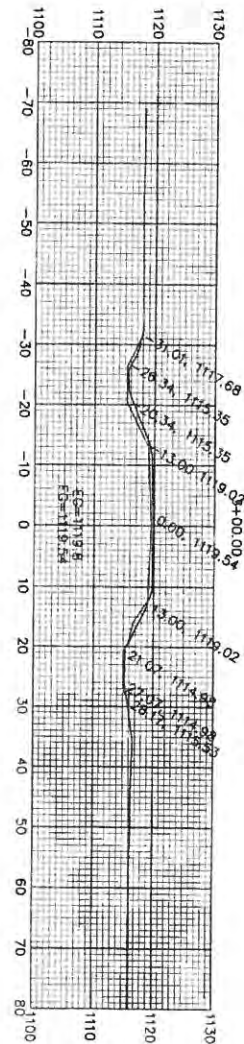
PROJ No. L-LIN5--73-85

THE ENGINEER & ARCHITECT ASSOCIATES, P.C. 10000 10000

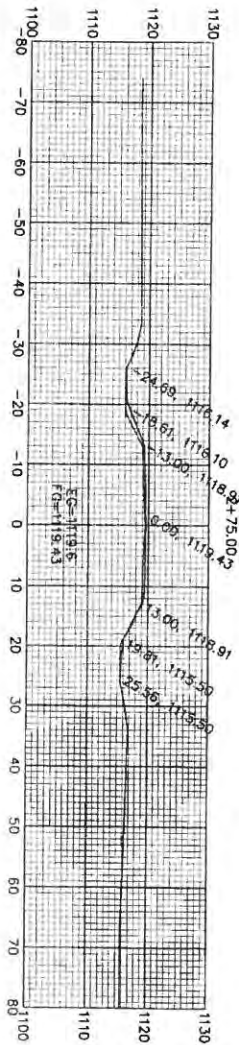
STORY COUNTY

1-2476-73-85

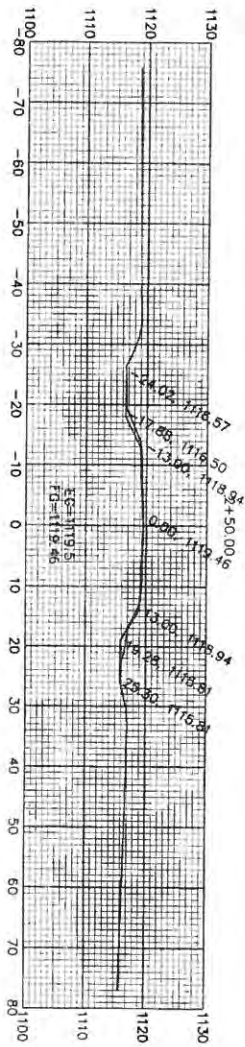
DATE	1-2476-73-85
BY	1-2476-73-85
CHECKED	1-2476-73-85
APPROVED	1-2476-73-85



Sta. 3+00.00	
Cut Area	22.69
Fill Area	3.64
Cut Vol	16.76
Fill Vol	2.21



Sta. 2+75.00	
Cut Area	13.50
Fill Area	0.03
Cut Vol	11.63
Fill Vol	0.02



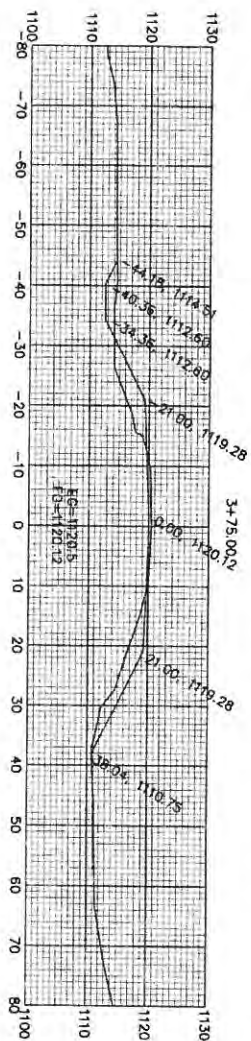
Sta. 2+50.00	
Cut Area	11.63
Fill Area	0.00
Cut Vol	53.82
Fill Vol	0.00

FILE LOCATION: E:\PROJECTS\LIN5\DATA\STATION 3 CROSS.SHEET

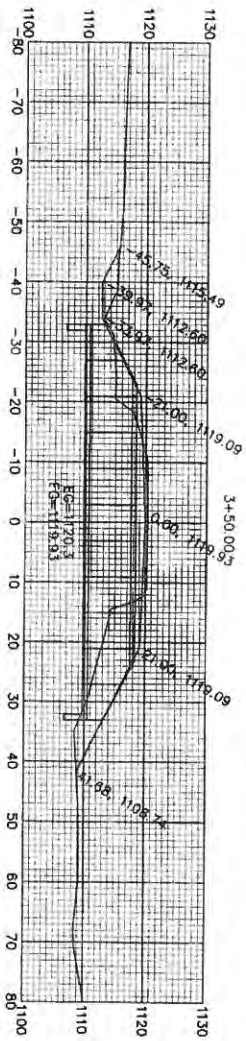
STORY COUNTY

L-LIN5--73-85

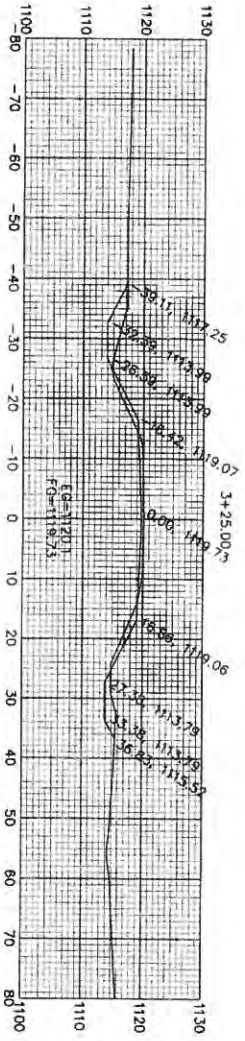
DATE	BY	CHECKED	DATE
7/27/85	J	J	7/27/85



Sta. 3+75.00	
Cut Area	24.71
Fill Area	75.10
Cut Vol	4.73
Fill Vol	49.30



Sta. 3+50.00	
Cut Area	32.18
Fill Area	150.30
Cut Vol	36.52
Fill Vol	99.76



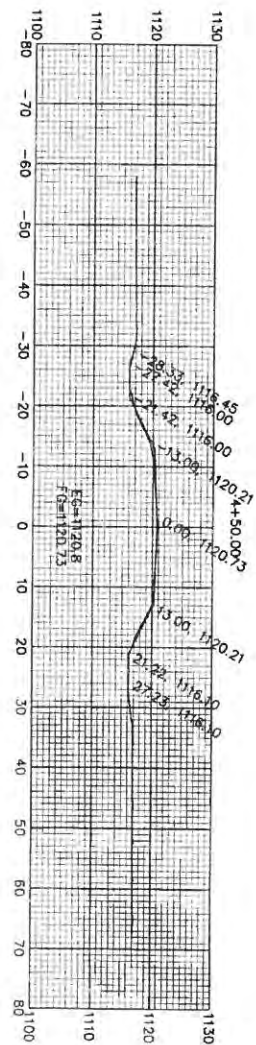
Sta. 3+25.00	
Cut Area	46.71
Fill Area	15.46
Cut Vol	32.13
Fill Vol	11.49

FILE LOCATION: L-LIN5\WALLES CROSS\SECTION 5 (STORY).DWG

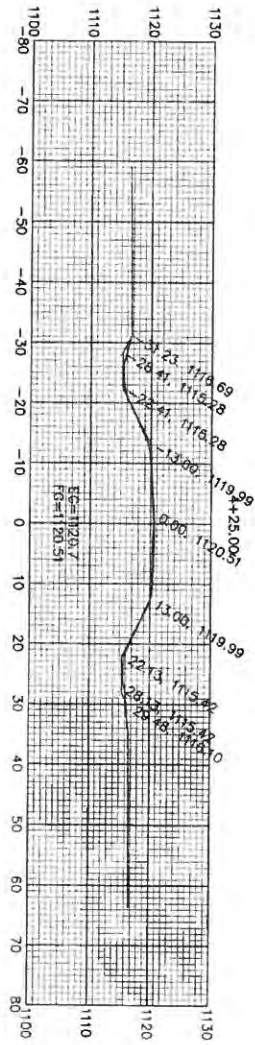
STORY COUNTY

FILE NO: L-LIN5--73-85

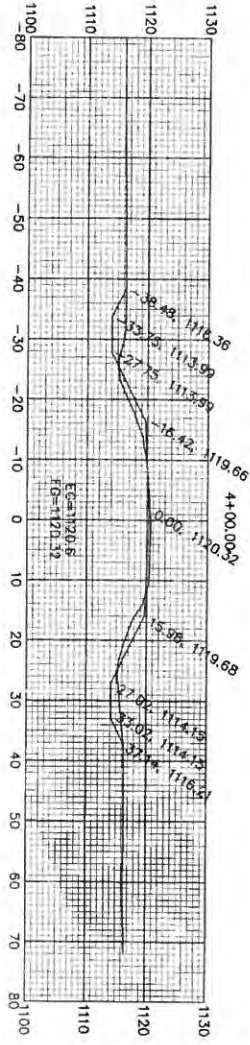
DATE: 7/2/94



Sta. 4+50.00
Cut Area 1.73
Fill Area 5.41
Cut Vol 5.00
Fill Vol 4.91



Sta. 4+25.00
Cut Area 9.08
Fill Area 2.74
Cut Vol 21.71
Fill Vol 16.25



Sta. 4+00.00
Cut Area 37.81
Fill Area 24.27
Cut Vol 28.95
Fill Vol 59.81

MEMO

To: Alissa Wignall
From: Rhonda Sykes, Property Tax Supervisor
Subject: Tax Suspension Recipients
Date: December 19, 2017

The following is an additional tax suspension recipient(s) who must be verified for continued eligibility by the Board of Supervisors:

Theresa Louise Coffman
718 C Ave
Nevada IA 50201
1107414640

eligible

APPROVED

DENIED

Board Member Initials: RS
Meeting Date: 12-27-17
Follow-up Actions: _____

NOTICE OF APPOINTMENT

PERSON APPOINTED: Rebecca Reisinger

BOARD COMMISSION OR COMMITTEE APPOINTED TO:

Compensation Board

LENGTH OF TERM: 2 years

(IS THIS APPOINTMENT TO FILL AN UNEXPIRED TERM? no

IF SO, WHO'S TERM? _____

WHO NEEDS TO BE NOTIFIED? Treasurer

DATE APPOINTED: 12/27/2017

DATE OF TERM EXPIRED: 06/30/2019

APPROVED **DENIED**
Board Member Initials: RS
Meeting Date: 12-27-17
Follow-up action: _____

NOTICE OF APPOINTMENT

PERSON APPOINTED: Steve McGill

BOARD COMMISSION OR COMMITTEE APPOINTED TO:

Board of Adjustment

LENGTH OF TERM: 5 years

(IS THIS APPOINTMENT TO FILL AN UNEXPIRED TERM? no

IF SO, WHO'S TERM? _____

WHO NEEDS TO BE NOTIFIED? Board of Supervisors

DATE APPOINTED: 12/27/2017

DATE OF TERM EXPIRED: 12/31/2022

APPROVED DENIED
Board Member Initials: RS
Meeting Date: 12-27-17
Follow-up action: _____

NOTICE OF APPOINTMENT

PERSON APPOINTED: Laura Carlson

BOARD COMMISSION OR COMMITTEE APPOINTED TO:

Civil Service Commission

LENGTH OF TERM: 6 years

(IS THIS APPOINTMENT TO FILL AN UNEXPIRED TERM? no

IF SO, WHO'S TERM? _____

WHO NEEDS TO BE NOTIFIED? Board of Supervisors

DATE APPOINTED: 12/27/2017

DATE OF TERM EXPIRED: 12/31/2023

APPROVED

DENIED

Board Member Initials: RS

Meeting Date: 12-27-17

Follow-up action: _____

NOTICE OF APPOINTMENT

PERSON APPOINTED: Craig Meyers

BOARD COMMISSION OR COMMITTEE APPOINTED TO:

Conservation Board

LENGTH OF TERM: 5 years

(IS THIS APPOINTMENT TO FILL AN UNEXPIRED TERM? no

IF SO, WHO'S TERM? _____

WHO NEEDS TO BE NOTIFIED? Board of Supervisors

DATE APPOINTED: 12/27/2017

DATE OF TERM EXPIRED: 12/31/2022

~~APPROVED~~ DENIED
Board Member Initials: RS
Meeting Date: 12-27-17
Follow-up action: _____

NOTICE OF APPOINTMENT

PERSON APPOINTED: Dr. John Kluge and Dr. John Paschen

BOARD COMMISSION OR COMMITTEE APPOINTED TO:

Board of Health

LENGTH OF TERM: 3 years

(IS THIS APPOINTMENT TO FILL AN UNEXPIRED TERM? no

IF SO, WHO'S TERM? _____

WHO NEEDS TO BE NOTIFIED? Board of Supervisors

DATE APPOINTED: 12/27/2017

DATE OF TERM EXPIRED: 12/31/2020

APPROVED

DENIED

Board Member Initials: RS

Meeting Date: 12-27-17

Follow-up action: _____

NOTICE OF APPOINTMENT

PERSON APPOINTED: Wendie Copper And Jennifer Ellis

BOARD COMMISSION OR COMMITTEE APPOINTED TO:

Central Iowa Community Services Advisory Council

LENGTH OF TERM: 2 years

(IS THIS APPOINTMENT TO FILL AN UNEXPIRED TERM? no

IF SO, WHO'S TERM? _____

WHO NEEDS TO BE NOTIFIED? Board of Supervisors

DATE APPOINTED: 12/27/2017

DATE OF TERM EXPIRED: 12/31/2019

APPROVED

DENIED

Board Member Initials: WCE

Meeting Date: 12-27-17

Follow-up action: _____

NOTICE OF APPOINTMENT

PERSON APPOINTED: Kathy Mens

BOARD COMMISSION OR COMMITTEE APPOINTED TO:

Planning and Zoning Commission

LENGTH OF TERM: 5 years

(IS THIS APPOINTMENT TO FILL AN UNEXPIRED TERM? no

IF SO, WHO'S TERM? _____

WHO NEEDS TO BE NOTIFIED? Board of Supervisors

DATE APPOINTED: 12/27/2017

DATE OF TERM EXPIRED: 12/31/2022

APPROVED **DENIED**
Board Member Initials: KMS
Meeting Date: 12-27-17
Follow-up action: _____

Closure No. 18-26

Date 12/19/2017

Resolution

BE IT RESOLVED

by the Board of Supervisors of Story County, Iowa, to approve the road closure(s) for the purpose of Bridge Repair in Lincoln Twp. Sect. 19, 20 on 690th Ave. from 135th St. to 140th St.

Motion by: Olson

Seconded by: Chitty

Olson ☒ Aye
☐ Nay
☐ Absent

Sanders ☒ Aye
☐ Nay
☐ Absent

Chitty ☒ Aye
☐ Nay
☐ Absent



Story County Board of Supervisors

STORY COUNTY UTILITY PERMIT

Date 12/19/17

To the Board of Supervisors, Story County, Iowa:

The Intertek Power and Light Company, incorporated under the laws of Iowa, with its principal place of business at 1284 XE Plaza Ames IA 50011, does hereby make application requesting permission to occupy certain portions of public right-of-way and that the County Engineer be directed to establish the location of lines of transmission of Natural Gas on secondary route W 190th from 3715 W 190th St to N/A a distance of N/A miles.

Agreements: The utility company, corporation, applicant, permittee, or licensee, (hereinafter referred to as the permittee) agrees that the following stipulations shall govern under this permit.

1. The Permittee will file a plat setting out the location of proposed line on the secondary route and that the description of the proposed installation including type, height, and spacing of poles, maximum voltage, lengths of cross arms, minimum clearance and number of wires, type, size and capacity of underground cables, conduits, tile lines, and pipe lines, maximum working pressures for pipe lines carrying gas or flammable petroleum products are described as follows:

See Attached Map

2. The installation shall meet the requirements of county, state, and federal laws, franchise rules, and of the Iowa State Commerce Commission Regulations and Directives, Utilities Division, the Iowa State Department of Health, and any other laws or regulations applicable.
3. The Permittee shall be fully responsible for any future adjustments of its facilities within the established highway right-of-way caused by highway construction or maintenance operations.
4. Story County assumes no responsibility for damages to the Permittee's property occasioned by any construction or maintenance operations on said highways.
5. The Permittee shall take all reasonable precautions during the construction and maintenance of said installation to protect and safeguard the lives and property of the traveling public and adjacent property owners.
6. The Permittee, and its contractors, shall carry on the construction or repair of the accommodated utility with serious regard to the safety of the public. Traffic protection shall be in accordance with Part VI of the current Iowa Department of Transportation Manual on Uniform Control Devices for Streets and Highways.
7. The Permittee shall be responsible for any damage resulting to said highways because of the construction operation, or maintenance of said utility, and shall reimburse Story County for any expenditure the County may have to make on said highways because of said permittee's utility having been constructed, operated, and maintained thereon.
8. The Permittee shall indemnify and save harmless Story County from any and all causes of action, suits at law or in equity, or losses, damages, claims, or demands, and from any and all

liability and expense of whatsoever nature for, on account of or due to the acts or omissions of said Permittee's officers, members, agents, representatives, contractors, employees or assigns arising out of or in connection with its (or their) use or occupancy of the public highway under this permit.

9. Noncompliance with any of the terms of permit, or agreement, may be considered cause for shut down of utility construction operations, or revocation of the permit.

10. The following special requirements, if applicable, shall apply to this permit:

Whenever the route of the proposed cable line runs along a paved secondary highway, the location of said cable shall be constructed on top of the road shoulder so as to be within approximately two-feet of the pavement edge.

Whenever the route of the proposed cable line runs along a dirt or gravel surfaced highway, the location of said cable shall be constructed on top of the road surface and as near possible to the shoulder line

Whenever a cross road culvert or bridge is encountered along the route of the proposed cable lines, said cable shall be constructed around the ends of said cross road culvert or bridge even though this looping is not designated on the situation plans attached hereto.

The crossing of the cable line from one side of the highway to the other shall be accomplished at a near right angle rather than diagonally so as to disturb the roadbed of the traveled way as little as possible.

Whenever the route of the proposed cable line is to cross a paved highway, such crossing shall be in a bored hole rather than open cut trench.

Date _____

Interstate Power and Light Co.
Name of Company (Applicant - Permittee)

John Sikes 515-382-1204
by _____ Phone no.

Recommended for Approval:

Date 12-19-17

[Signature]
County Engineer 515-382-7355
Phone no.

Approved:

Date 12-27-17

[Signature]
Chair, Board of Supervisors
Story County, Iowa

Three (3) copies of this form will be required for each installation. A plat shall be attached to each copy submitted.

[illegible]

3715 W 190TH

Google earth

© 2017 Google

Handwritten annotations on the map include:

- 1" PE Service 50 FT
- Base Row
- The for finding
- for 1518
- Row work ahead
- W 190th St
- 400 ft

STORY COUNTY UTILITY PERMIT

Date 12/21/17

To the Board of Supervisors, Story County, Iowa:

The MCC IOWA, LLC Company, incorporated under the laws of Iowa, with its principal place of business at 2205 INGERSOLL AVE, DES MOINES, IA 50312, does hereby make application requesting permission to occupy certain portions of public right-of-way and that the County Engineer be directed to establish the location of lines of transmission of 24-count fiber cable on secondary route 500th Ave, from existing vault near cell tower to Entrance 900 500th Ave, a distance of 0.059 (310 LF) miles.

Agreements: The utility company, corporation, applicant, permittee, or licensee, (hereinafter referred to as the permittee) agrees that the following stipulations shall govern under this permit.

1. The Permittee will file a plat setting out the location of proposed line on the secondary route and that the description of the proposed installation including type, height, and spacing of poles, maximum voltage, lengths of cross arms, minimum clearance and number of wires, type, size and capacity of underground cables, conduits, tile lines, and pipe lines, maximum working pressures for pipe lines carrying gas or flammable petroleum products are described as follows:
2. The installation shall meet the requirements of county, state, and federal laws, franchise rules, and of the Iowa State Commerce Commission Regulations and Directives, Utilities Division, the Iowa State Department of Health, and any other laws or regulations applicable.
3. The Permittee shall be fully responsible for any future adjustments of its facilities within the established highway right-of-way caused by highway construction or maintenance operations.
4. Story County assumes no responsibility for damages to the Permittee's property occasioned by any construction or maintenance operations on said highways.
5. The Permittee shall take all reasonable precautions during the construction and maintenance of said installation to protect and safeguard the lives and property of the traveling public and adjacent property owners.
6. The Permittee, and its contractors, shall carry on the construction or repair of the accommodated utility with serious regard to the safety of the public. Traffic protection shall be in accordance with Part VI of the current Iowa Department of Transportation Manual on Uniform Control Devices for Streets and Highways.
7. The Permittee shall be responsible for any damage resulting to said highways because of the construction operation, or maintenance of said utility, and shall reimburse Story County for any expenditure the County may have to make on said highways because of said permittee's utility having been constructed, operated, and maintained thereon.
8. The Permittee shall indemnify and save harmless Story County from any and all causes of action, suits at law or in equity, or losses, damages, claims, or demands, and from any and all

liability and expense of whatsoever nature for, on account of or due to the acts or omissions of said Permittee's officers, members, agents, representatives, contractors, employees or assigns arising out of or in connection with its (or their) use or occupancy of the public highway under this permit.

9. Noncompliance with any of the terms of permit, or agreement, may be considered cause for shut down of utility construction operations, or revocation of the permit.

10. The following special requirements, if applicable, shall apply to this permit:

Whenever the route of the proposed cable line runs along a paved secondary highway, the location of said cable shall be constructed on top of the road shoulder so as to be within approximately two-feet of the pavement edge.

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Whenever a cross road culvert or bridge is encountered along the route of the proposed cable lines, said cable shall be constructed around the ends of said cross road culvert or bridge even though this looping is not designated on the situation plans attached hereto.

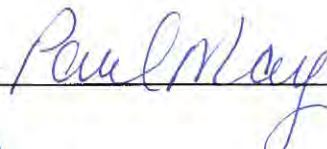
The crossing of the cable line from one side of the highway to the other shall be accomplished at a near right angle rather than diagonally so as to disturb the roadbed of the traveled way as little as possible.

Whenever the route of the proposed cable line is to cross a paved highway, such crossing shall be in a bored hole rather than open cut trench.

Date 12-19-2017

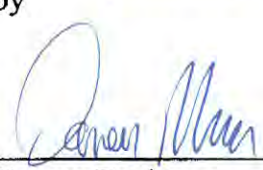
MCC IOWA, LLC (MEDIACOM)

Name of Company (Applicant - Permittee)

Paul May  515-246-1890
by Phone no.

Recommended for Approval:

Date 12-21-17

 515-382-7355
County Engineer Phone no.

Approved:

Date 12-27-17


Chair, Board of Supervisors
Story County, Iowa

Three (3) copies of this form will be required for each installation. A plat shall be attached to each copy submitted.



NOTE:
DIRECTIONAL BORE 1 EA. 2" PVC CONDUIT WITH A 24-COUNT FIBER OPTIC CABLE FROM AN EXISTING MEDIACOM VAULT EAST OF 500TH AVE (Y AVE) NORTH TO A NEW MEDIACOM VAULT PLACEMENT. THE PURPOSE FOR THIS INSTALLATION IS TO REPLACE A DAMAGED CABLE.

PROJECT NO. 18837-APP
PROJECT NAME: 988 500TH AVE
PROJECT DATE: JAN 2017
DESIGNED BY: JASATSCHEK
CHECKED BY: TADAMS
DRAWN BY: JASATSCHEK
CDD DATE: 12/9/17

NO.	DATE	BY	REVISION DESCRIPTION

CenturyLink
UTILITIES CONSTRUCTION CONTRACTOR

MEDIACOM UTILITY PERMIT
IOWA DOT - DISTRICT 1
AMES, IOWA - STORY COUNTY

LOCATION PLAN
STORY COUNTY UTILITY PERMIT APPLICATION

STORY COUNTY UTILITY PERMIT

Date 12/21/17

To the Board of Supervisors, Story County, Iowa:

The MCC IOWA, LLC Company, incorporated under the laws of Iowa, with its principal place of business at 2205 INGERSOLL AVE, DES MOINES, IA 50312, does hereby make application requesting permission to occupy certain portions of public right-of-way and that the County Engineer be directed to establish the location of lines of transmission of 0.750" & 0.625" coax on secondary route Dartmoor Rd, from 3265 Dartmoor Rd to 2818 State Ave, a distance of 0.089 (468 LF) miles.

Agreements: The utility company, corporation, applicant, permittee, or licensee, (hereinafter referred to as the permittee) agrees that the following stipulations shall govern under this permit.

1. The Permittee will file a plat setting out the location of proposed line on the secondary route and that the description of the proposed installation including type, height, and spacing of poles, maximum voltage, lengths of cross arms, minimum clearance and number of wires, type, size and capacity of underground cables, conduits, tile lines, and pipe lines, maximum working pressures for pipe lines carrying gas or flammable petroleum products are described as follows:
2. The installation shall meet the requirements of county, state, and federal laws, franchise rules, and of the Iowa State Commerce Commission Regulations and Directives, Utilities Division, the Iowa State Department of Health, and any other laws or regulations applicable.
3. The Permittee shall be fully responsible for any future adjustments of its facilities within the established highway right-of-way caused by highway construction or maintenance operations.
4. Story County assumes no responsibility for damages to the Permittee's property occasioned by any construction or maintenance operations on said highways.
5. The Permittee shall take all reasonable precautions during the construction and maintenance of said installation to protect and safeguard the lives and property of the traveling public and adjacent property owners.
6. The Permittee, and its contractors, shall carry on the construction or repair of the accommodated utility with serious regard to the safety of the public. Traffic protection shall be in accordance with Part VI of the current Iowa Department of Transportation Manual on Uniform Control Devices for Streets and Highways.
7. The Permittee shall be responsible for any damage resulting to said highways because of the construction operation, or maintenance of said utility, and shall reimburse Story County for any expenditure the County may have to make on said highways because of said permittee's utility having been constructed, operated, and maintained thereon.
8. The Permittee shall indemnify and save harmless Story County from any and all causes of action, suits at law or in equity, or losses, damages, claims, or demands, and from any and all

liability and expense of whatsoever nature for, on account of or due to the acts or omissions of said Permittee's officers, members, agents, representatives, contractors, employees or assigns arising out of or in connection with its (or their) use or occupancy of the public highway under this permit.

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Whenever the route of the proposed cable line is to cross a paved highway, such crossing shall be in a bored hole rather than open cut trench.

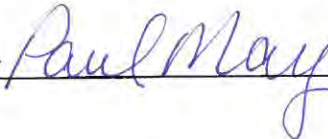
Date 12-18-2017

MCC IOWA, LLC (MEDIACOM)

Name of Company (Applicant - Permittee)

Paul May

by



515-246-1890

Phone no.

Recommended for Approval:

Date 12-21-17



County Engineer

515-382-7355

Phone no.

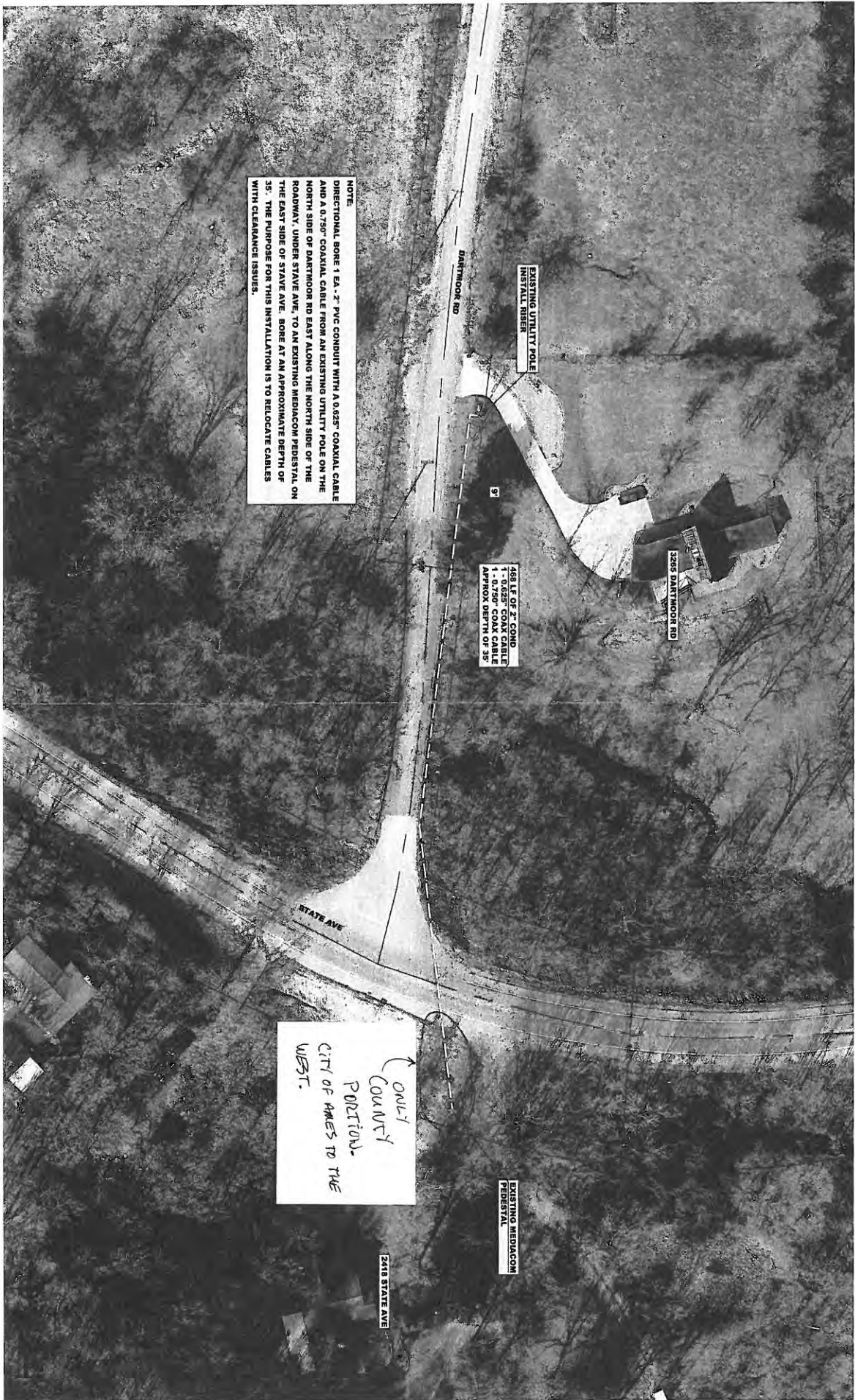
Approved:

Date 12-21-17



Chair, Board of Supervisors
Story County, Iowa

Three (3) copies of this form will be required for each installation. A plat shall be attached to each copy submitted.



NOTE:
DIRECTIONAL BORE 1 EA. 2" PVC CONDUIT WITH A 0.625" COAXIAL CABLE AND A 0.750" COAXIAL CABLE FROM AN EXISTING UTILITY POLE ON THE NORTH SIDE OF BARTMOOR RD EAST ALONG THE NORTH SIDE OF THE ROADWAY, UNDER STAVE AVE, TO AN EXISTING MEDIACOM PEDESTAL ON THE EAST SIDE OF STAVE AVE. BORE AT AN APPROXIMATE DEPTH OF 35'. THE PURPOSE FOR THIS INSTALLATION IS TO RELOCATE CABLES WITH CLEARANCE ISSUES.

ONLY
COUNTY
PORTION -
CITY OF AMES TO THE
WEST.

PROJECT NO. 180821-001
PROJECT NAME 2418 STATE AVE RD
PROJECT DATE JAN 2015
CNO DATE 12/14/17

NO	DATE	BY	REVISION DESCRIPTION

COLUMBIAN DATA LINK
UTILITIES CONSTRUCTION CONTRACTOR

MEDIACOM UTILITY PERMIT
IOWA DOT - DISTRICT 1
AMES, IOWA - STORY COUNTY

LOCATION PLAN
UTILITY PERMIT APPLICATION