

SANITARY SEWER ADDITIONAL CONNECTIONS AND SERVICE CONNECTIONS

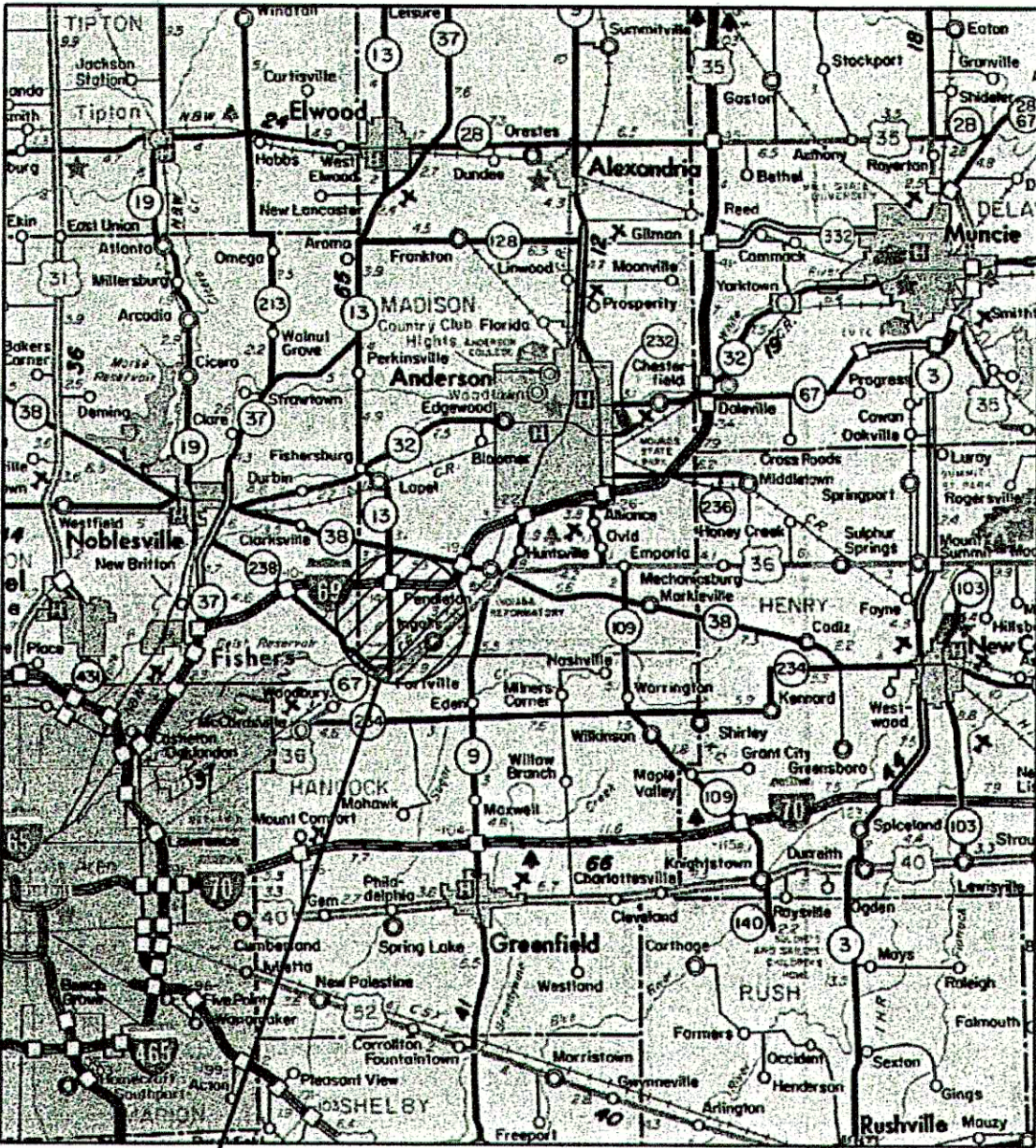
PROJECT FOR THE FALL CREEK REGIONAL WASTE DISTRICT MADISON COUNTY, IN.

IN COOPERATION WITH THE TOWN OF INGALLS

NOVEMBER 2004

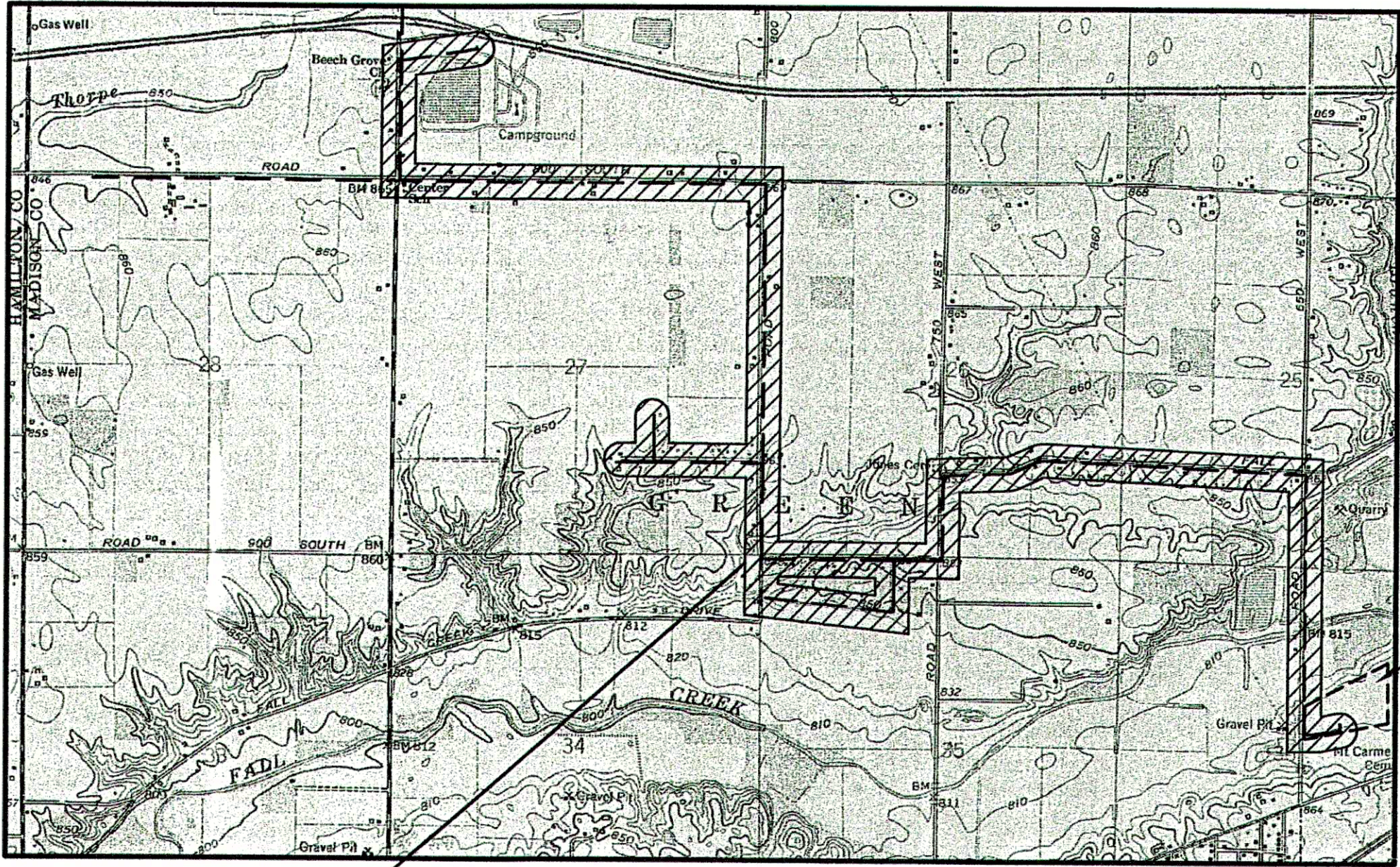
DOC GRANT #CF-04-103

AREA MAP



AREA
LOCATION

LOCATION MAP



PROJECT
LOCATION

FALL CREEK R.W.D. WASTEWATER
TREATMENT FACILITY LOCATION

RECORD DRAWING

This drawing has been revised from the original contract drawings to show minor / major changes made during construction. This drawing is not warranted to be complete and accurate in all respects.

GRW Engineers, Inc.

Date: 5-18-06 By: CJF

THESE PLANS CERTIFIED BY:

Michael P. Hunter, Professional Engineer



11/18/04

James W. Frazell, Professional Engineer



Thomas M. Schubert, Professional Engineer



PLANS PREPARED BY:

**TRIAD
ASSOCIATES
INC.**

INDIANAPOLIS, INDIANA



NOTE

ADDITIONAL RIGHT-OF-WAY OR EASEMENTS MAY
NEED TO BE ACQUIRED FOR INSTALLATION OF SEWER.



DON'T DIG BLIND
CALL BEFORE YOU DIG
1-800-382-5544
1-800-428-5200

PER INDIANA STATE LAW IS-69-1991, IT IS
AGAINST THE LAW TO EXCAVATE WITHOUT
NOTIFYING THE UNDERGROUND LOCATION SERVICE
TWO (2) WORKING DAYS BEFORE COMMENCING WORK.
NOTE: CONTRACTOR TO VERIFY ALL UTILITY LOCATIONS
PRIOR TO THE START OF CONSTRUCTION

LEGEND:	
	EXISTING STONE DRIVE
	EXISTING ASPHALT DRIVE
	EXISTING CONTOUR
	EXISTING FENCE
	EXISTING TREE/BUSH
	EXISTING DRAINAGE PIPE
	EXISTING MANHOLE
	EXISTING DRAINAGE INLET
	EXISTING POWER POLE
	EXISTING GUY WIRES
	EXISTING LIGHT POLE
	EXISTING MAILBOX
	EXISTING SECTION LINE
	EXISTING PROPERTY LINE
	EXISTING RIGHT-OF-WAY LINE
	EXISTING EASEMENT
	PROPOSED EASEMENT
	EXISTING SHORE LINE
	EXISTING GAS LINE
	EXISTING WATER LINE
	EXISTING UNDERGROUND ELECTRIC LINE
	PROPOSED FORCEMAIN LOCATION
	PROPOSED AIR/VAC RELEASE
	PROPOSED VALVE w/ BOX & RISER
	PROPOSED SERVICE CONNECTION
	PROPOSED VALVE VAULT

UTILITIES:	
INDIANA GAS COMPANY 2001 LOUISE STREET ANDERSON, INDIANA 46016 CONTACT: MR. MIKE JOHNSON TEL: (317) 592-4500	
GTE 1191 RICH ROAD RICHMOND, INDIANA 47374 CONTACT: MS. JOANN ANTHONY TEL: (317) 984-2251	
TCI CABLE 335 EAST 10th STREET ANDERSON, INDIANA 46016 CONTACT: MR. ROCKY BENNETT TEL: (765) 649-5228	
CINERGY / PSI 100 MILL CREEK ROAD NOBLESVILLE, INDIANA 46060 CONTACT: MR. TRACY GRADY TEL: (317) 776-5352	
CENTRAL INDIANA POWER 2243 EAST MAIN STREET GREENFIELD, INDIANA 46140 CONTACT: MR. GARY SARGENT TEL: (317) 462-4417	
INGALLS WATER 249 NORTH MERIDIAN STREET INGALLS, INDIANA 46048 CONTACT: MR. RANDY McVEY TEL: (317) 485-4321	
SPRINT 50 NORTH JACKSON STREET FRANK, INDIANA 46131 CONTACT: MS. NANCY PICKEREL TEL: (317) 736-5309	

TEMPORARY BENCHMARK INFORMATION:	
TBM #1a	BOX NOTCH CUT IN THE NORTHWEST CORNER OF THE SECOND LIGHT POLE CONCRETE PAD. THIS TBM IS ON THE TREATMENT PLANT SITE. ELEV. 842.36
TBM #1	SPIKE IN THE SOUTHEAST SIDE OF POWERPOLE #065277 AT THE NORTHWEST QUADRANT OF COUNTY ROAD 650W AND FALL CREEK DRIVE. ELEV. 861.26
TBM #2	SPIKE IN THE SOUTH SIDE OF POWERPOLE #B-2 98 SPPA 454 40 EAST OF 7144 FALL CREEK DRIVE. ELEV. 859.41
TBM #3	SPIKE IN THE SOUTHWEST SIDE OF POWERPOLE AT THE NORTH SIDE OF THE ROAD AT FALL CREEK DRIVE AND COUNTY ROAD 750W. ELEV. 854.43
TBM #4	SPIKE IN A POLE LOCATED 100 FEET WEST OF THE INTERSECTION OF COUNTY ROAD 900S AND COUNTY ROAD 750W. ELEV. 853.20
TBM #5	RAILROAD SPIKE WHICH WAS FOUND AT THE INTERSECTION OF COUNTY ROAD 800W AND COUNTY ROAD 875S. ELEV. 861.90
TBM #6	SPIKE IN THE WEST SIDE OF POWERPOLE #084-393 AT COUNTY ROAD 800S AND COUNTY ROAD 800W. ELEV. 868.44
TBM #7	SPIKE IN THE NORTH SIDE OF POWERPOLE ON COUNTY ROAD 800S. ELEV. 850.14
TBM #8	NOTCHED SQUARE IN WESTERLY BASE OF A LIGHT POLE ON THE NORTH SIDE OF THE I-69 NORTH BOUND ON RAMP. ELEV. 857.56

GENERAL NOTES:	
1.	CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES, STRUCTURES, ELEVATIONS, ETC. PRIOR TO CONSTRUCTION.
2.	CONTRACTOR TO MAINTAIN EXISTING PLANT OPERATION DURING CONSTRUCTION. ANY INTERFERENCE WITH OPERATION NECESSARY MUST BE APPROVED IN WRITING 48 HRS. IN ADVANCE. TREATMENT CANNOT BE JEOPARDIZED.
3.	ALL DISTURBED AREAS TO BE RESTORED TO ORIGINAL CONDITION IF NOT SPECIFIED OTHERWISE.
4.	ALL TEMPORARY PUMPING, BY-PASS STRUCTURES, ETC. NECESSARY SHALL BE INCLUDED IN THE CONTRACTOR'S BID.
5.	ALL 90° PIPING TURNS SHALL BE DONE WITH TWO (2) D.I.M.J. 45° ELBOWS UNLESS OTHERWISE SPECIFIED.
6.	SEE SHEET 21 FOR RESTRAINED JOINT DETAILS.
7.	CONTRACTOR TO TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING STRUCTURES DURING CONSTRUCTION.
8.	SEE DETAIL SHEET 21 FOR PIPE BEDDING REQUIREMENTS.
9.	SEE SHEETS 20 AND 21 FOR FURTHER PROPOSED PROJECT SPECIFIC DETAIL INFORMATION.
10.	SEE DETAIL SHEET 19 FOR LIFT STATION DETAILS.
11.	CONTRACTOR TO COORDINATE WITH ALL MECHANICAL AND ELECTRICAL WORK TO BE REQUIRED.
12.	CONTRACTOR SHALL CONTACT ALL UTILITIES FOR LOCATION OF EXISTING SERVICES FOR BOTH THE TREATMENT FACILITY AND FORCEMAIN ROUTE PRIOR TO CONSTRUCTION.
13.	SEE PLAN SHEET 20 FOR PROPOSED SERVICE CONNECTION VAULT INFORMATION.

BOARD OF TRUSTEES:

MORRIS E. McCURDY – PRESIDENT
AGON D. TOLBERT – MEMBER
DOUGLAS S. McGEE – MEMBER
DALLAS D. FOSTER – MEMBER
MARK A. JABLONSKI – MEMBER
DAVID K. PADGETT – MEMBER
JACK W. RHODES – MEMBER
EDWARD L. STERGAR, JR. – MEMBER
GREGORY L. VALENTINE – MEMBER

GENERAL MANAGER:

JOE ROWLETT

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SHEET INDEX:

SHEET No.	SHEET DESCRIPTION
1	TITLE SHEET
2	INDEX SHEET
3	PROJECT BASE MAP
4	PLANT CONNECTION PLAN AND PROFILE SHEET
5 – 15	PROPOSED SERVICE CONNECTION PLAN WITH EXISTING PLAN AND PROFILE SHEETS
16 – 18	PROPOSED PLAN AND PROFILE AND SERVICE CONNECTIONS
19	LIFT STATION DETAILS
20 – 21	PROPOSED MISCELLANEOUS DETAILS

CONSULTANT:

REVISIONS:

DATE	DESCRIPTION	BY
12-20-04	MISC. REVISIONS	BKY
5-18-06	RECORD DRAWINGS	CJF

APPROVED BY:



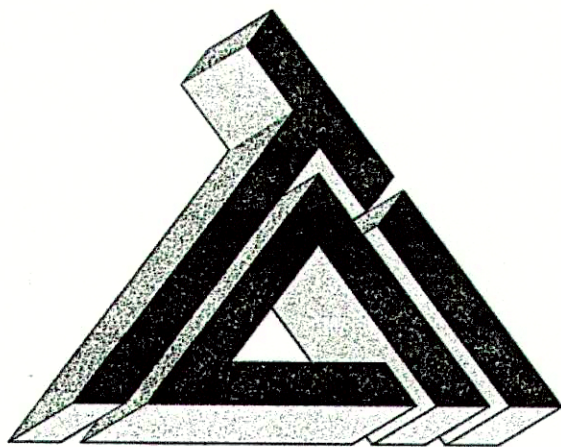
RECORD DRAWING

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GRW Engineers, Inc.

Date: 5-18-06 By: CJF

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TRIAD ASSOCIATES INC.
5835 LAWTON LOOP EAST DRIVE
INDIANAPOLIS, INDIANA 46216
PHONE: 317-377-5230 FAX: 317-377-5241

DESIGNED FOR:

FALL CREEK REGIONAL WASTE DISTRICT
SANITARY SEWER ADDITIONAL
CONNECTIONS AND SERVICE CONNECTIONS

SHEET TITLE:

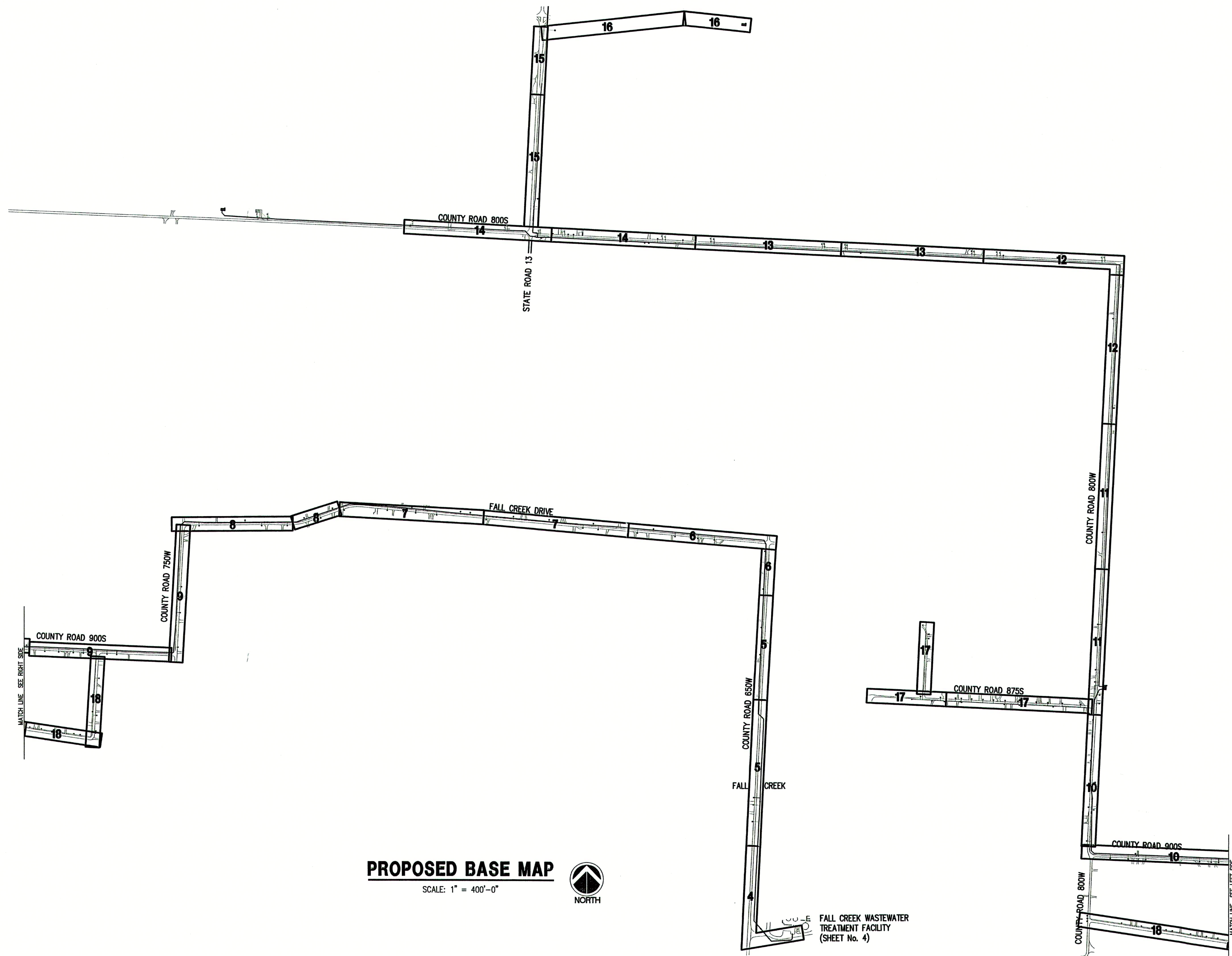
SHEET INDEX, GENERAL NOTES
AND DRAWING LEGEND SHEET

JOB NUMBER: 200402E	
SCALE: AS NOTED	CHECKED BY: J.W.F.
PLOT SCALE: 1 = 1	PLOT DATE: 12/20/04
DRAWN BY: DAP	DATE: NOVEMBER 2004
DESIGNED BY: Michael P. Hunter, P.E.	
DRAWING NAME: 200402E-IND	

SHEET No.

2

OF 21



CONSULTANT:

REVISIONS:

DATE	MISC. REVISIONS	BY
12-20-04	DESCRIPTION	BKY
5-18-06	RECORD DRAWINGS	CJF

APPROVED BY:



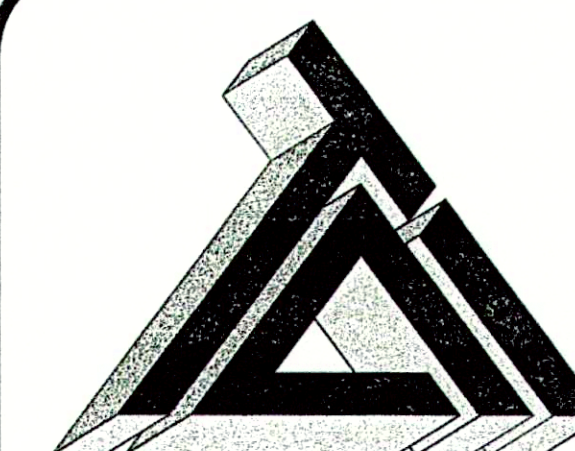
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SHEET TITLE:

PROJECT BASE MAP

JOB NUMBER: 200402E

SCALE: AS NOTED

PLOT SCALE: 1" = 50'

DRAWN BY: DAP

DESIGNED BY: Michael P. Hunter, P.E.

DRAWING NAME: 200402E-BAS

CHECKED BY: J.W.F.

PLOT DATE: 12/20/04

DATE: NOVEMBER 2004

SHEET No.


3

OF 21

CONSULTANT:

REVISIONS:		
DATE	DESCRIPTION	BY
12-20-04	MISC. REVISIONS	BY
5-18-06	RECORD DRAWINGS	CJF

APPROVED BY:



<p style="text-align: center;"><u>RECORD DRAWING</u></p> <p>This drawing has been revised from the original contract drawings to show minor/ major changes made during construction. This drawing is not warranted to be complete and accurate in all respects.</p> <p style="text-align: center;">GRW Engineers, Inc.</p> <p>Date: <u>5-18-06</u> By: <u>CJF</u></p>

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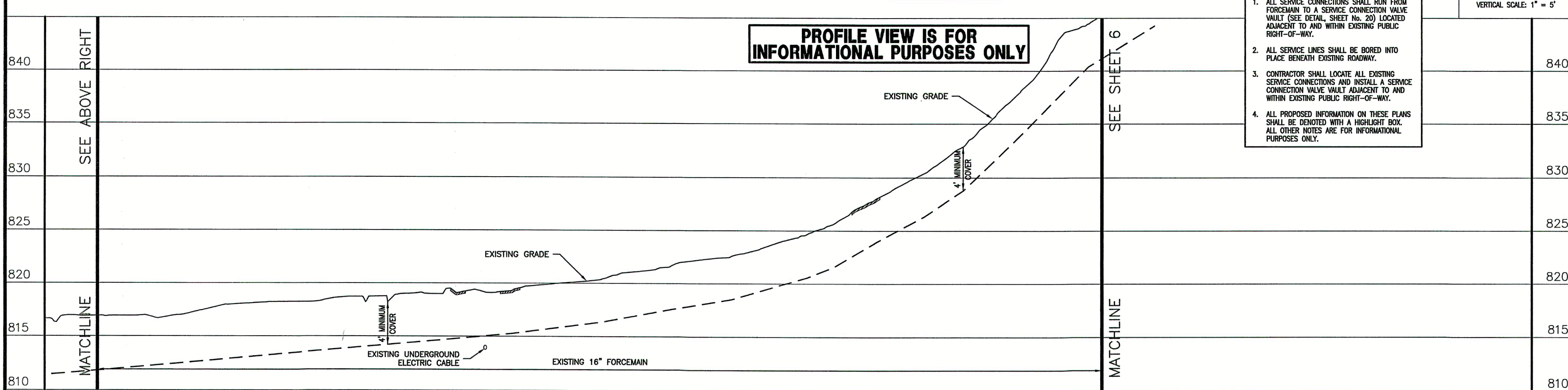
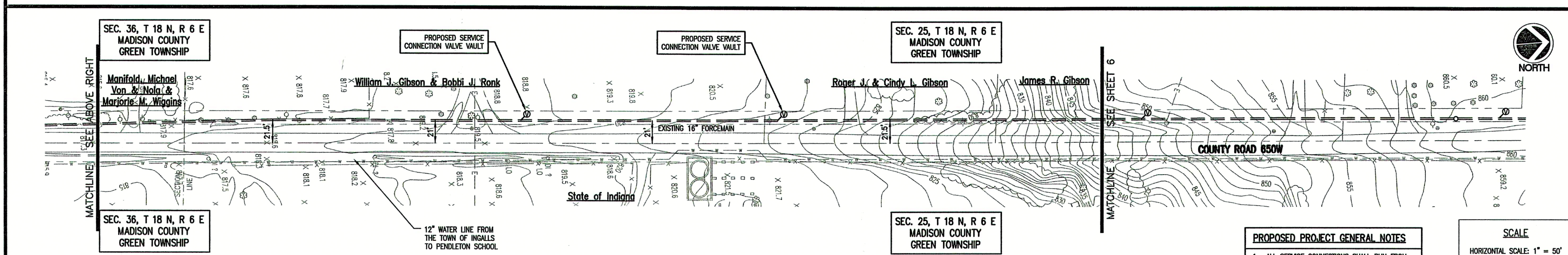
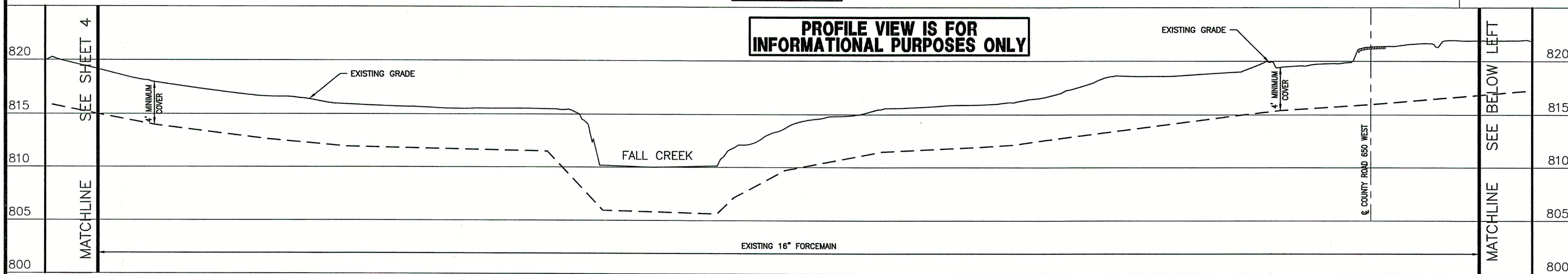
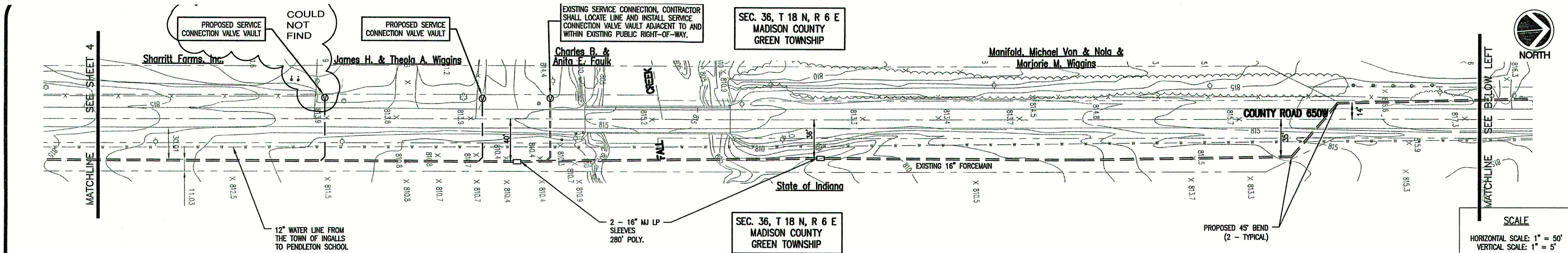
SHEET No. **4**
OF 21

4
OF 21



MATCHLINE

1. ALL SERVICE CONNECTIONS SHALL RUN FROM FOREMAN TO A SERVICE CONNECTION VALVE VAULT (SEE DETAIL, SHEET No. 20) LOCATED ADJACENT TO AND WITHIN EXISTING PUBLIC RIGHT-OF-WAY.
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SCALE
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'

CONSULTANT:

REVISIONS:

DATE	DESCRIPTION	BY
12-20-04	MISC. REVISIONS	BKY
5-18-06	RECORD DRAWINGS	CJF

APPROVED BY:

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DESIGNED FOR:

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SANITARY SEWER ADDITIONAL
CONNECTIONS AND SERVICE CONNECTIONS**

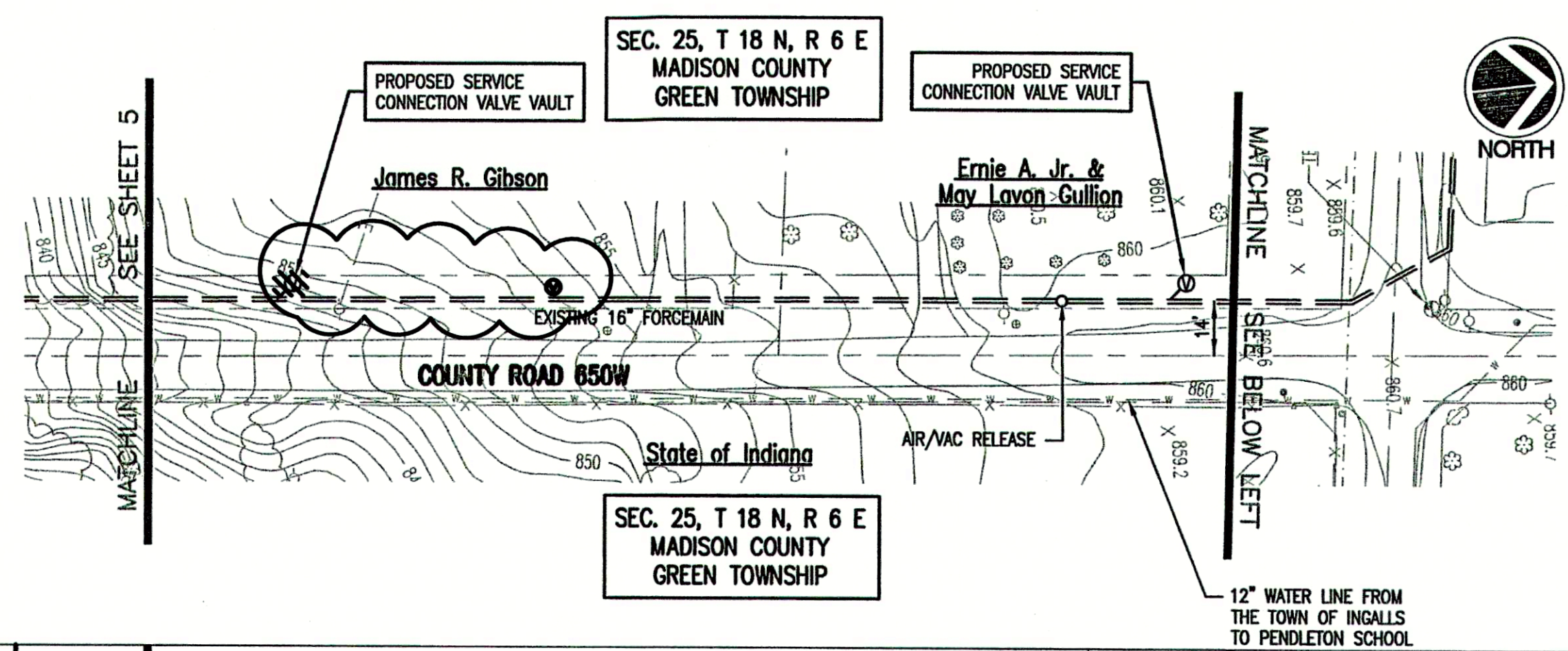
SHEET TITLE:
PROPOSED SERVICE CONNECTION PLAN
WITH EXISTING PLAN AND PROFILE

JOB NUMBER: 200402E	CHECKED BY: J.W.F.
SCALE: AS NOTED	PLOT DATE: 12/20/04
PLOT SCALE: 1" = 50'	DATE: NOVEMBER 2004
DRAWN BY: DAP	DESIGNED BY: Michael P. Hunter, P.E.
DRAWING NAME: 200403E-C5	

SHEET NO.

5

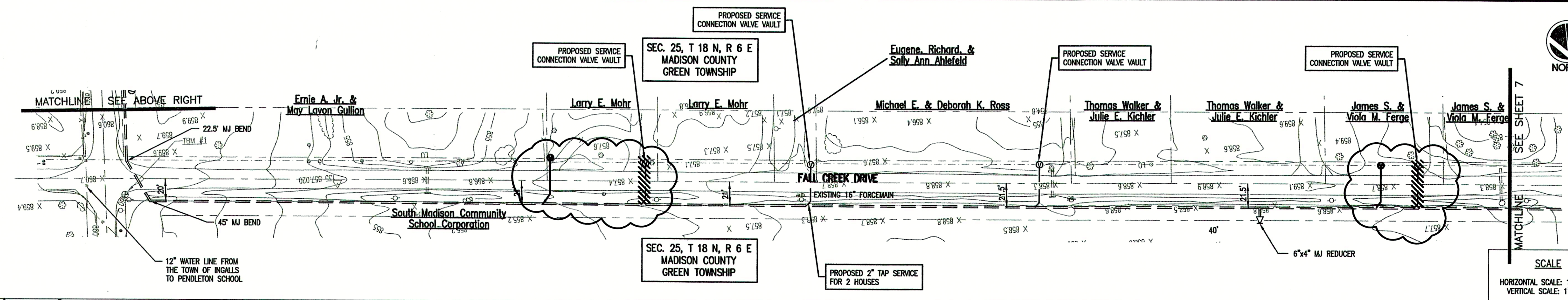
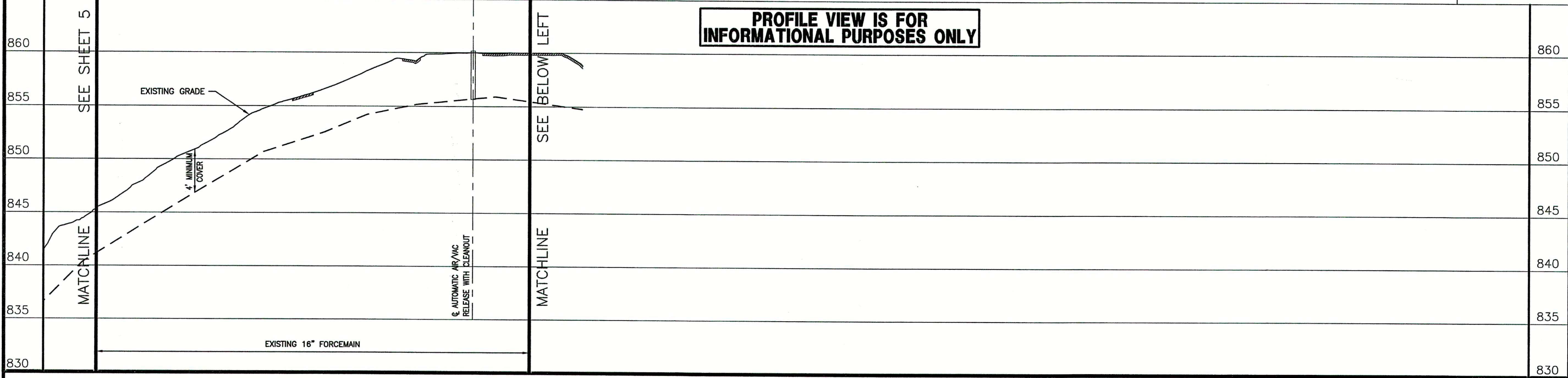
OF 21



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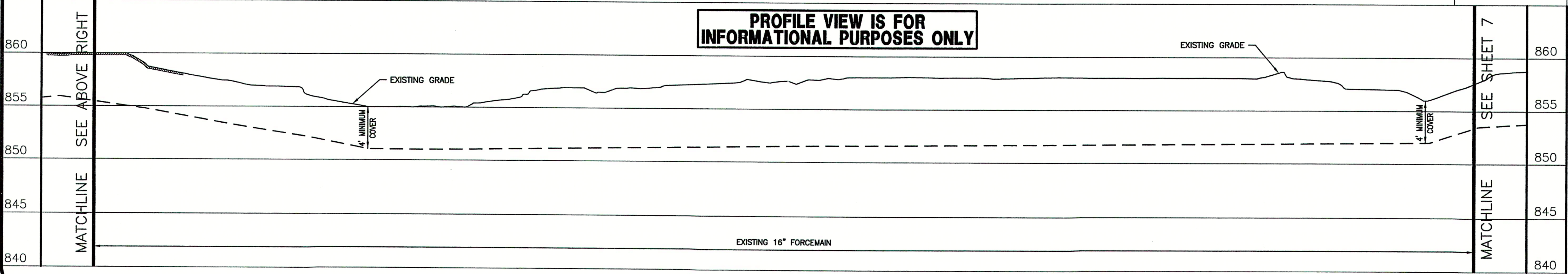
SCALE
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'

PROFILE VIEW IS FOR INFORMATIONAL PURPOSES ONLY



SCALE
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'

PROFILE VIEW IS FOR INFORMATIONAL PURPOSES ONLY



CONSULTANT:

REVISIONS:

DATE	DESCRIPTION	BY
12-8-04	REVISED PER F.C.R.W.D.	BKY
12-20-04	MISC. REVISIONS	BKY
5-18-06	RECORD DRAWINGS	CJF

APPROVED BY:



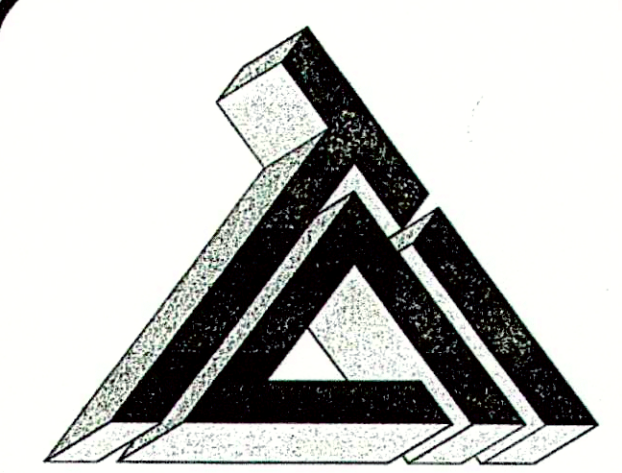
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SHEET TITLE:

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WITH EXISTING PLAN AND PROFILE

JOB NUMBER: 200402E

SCALE: AS NOTED CHECKED BY: J.W.F.

PLOT SCALE: 1" = 50' PLOT DATE: 12/20/04

DRAWN BY: DAP DATE: NOVEMBER 2004

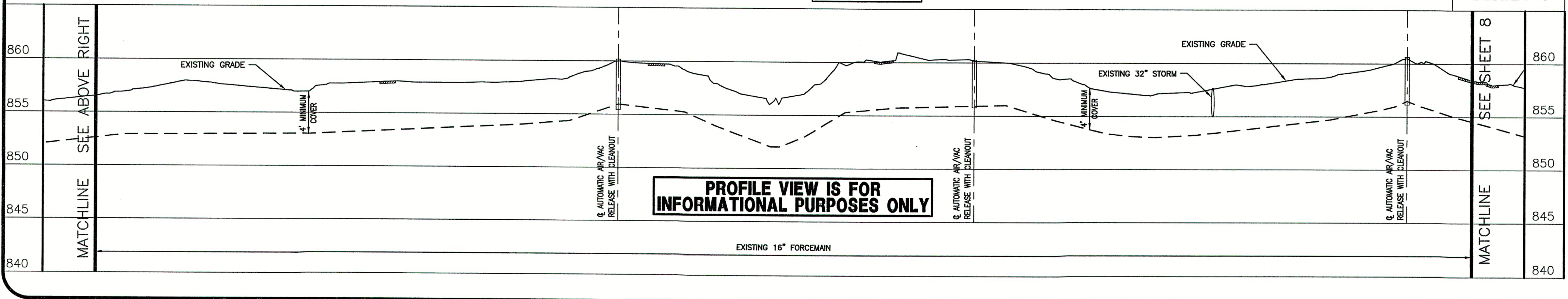
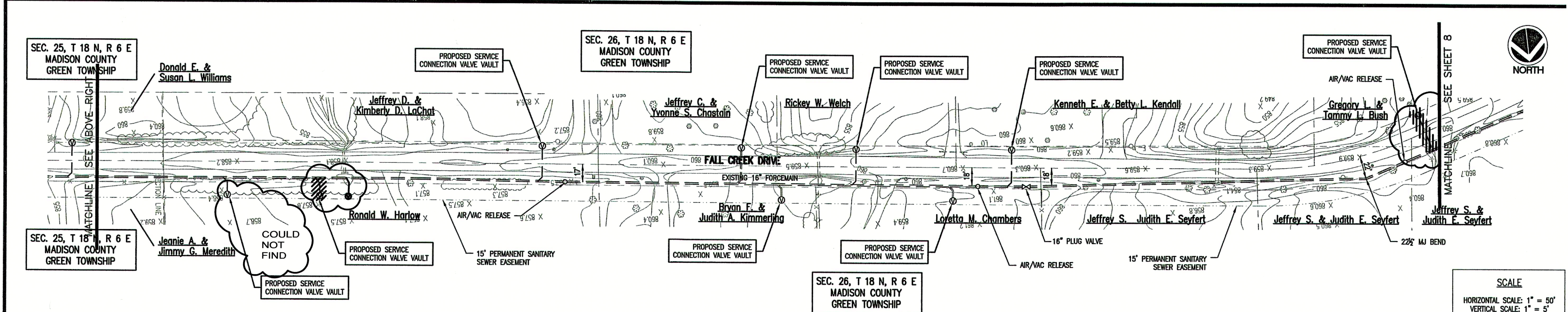
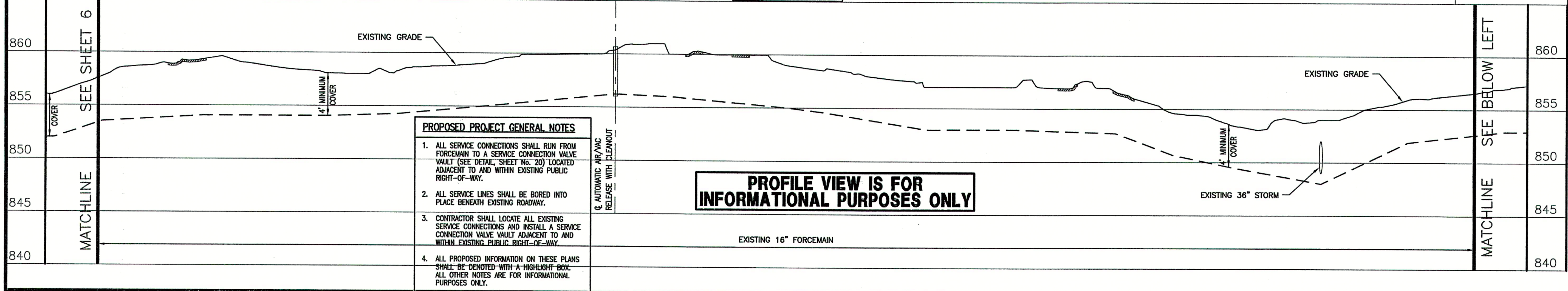
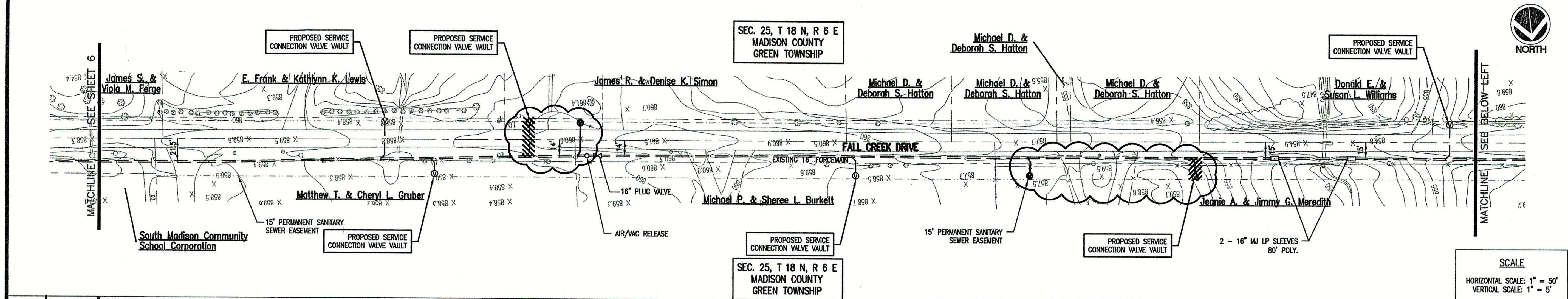
DESIGNED BY: Michael P. Hunter, P.E.

DRAWING NAME: 200402E-C6

SHEET No.

6

OF 21



CONSULTANT:

REVISIONS:

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12-8-04	REVISED PER F.C.R.W.D.	BKY
12-20-04	MISC. REVISIONS	BKY
5-18-06	RECORD DRAWINGS	CJF

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WITH EXISTING PLAN AND PROFILE

JOB NUMBER: 200402E

SCALE: AS NOTED

PLOT SCALE: 1" = 50'

DRAWN BY: DAP

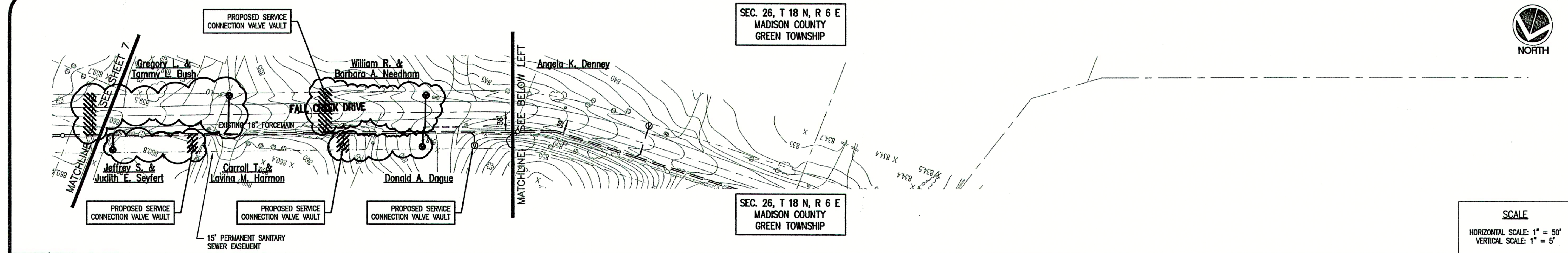
DESIGNED BY: Michael P. Hunter, P.E.

DRAWING NAME: 200402E-C7

SHEET No.

7

OF 21



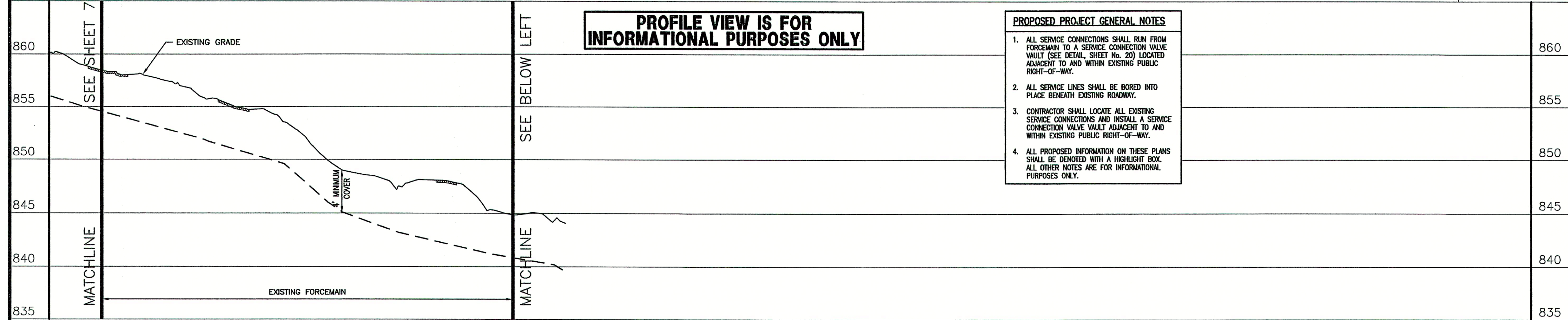
CONSULTANT:

REVISIONS:

DATE	DESCRIPTION	BY
12-8-04	REVISED PER F.C.R.W.D.	BKY
12-21-04	REVISED PER F.C.R.W.D.	BKY
5-18-06	RECORD DRAWINGS	CJF

SCALE

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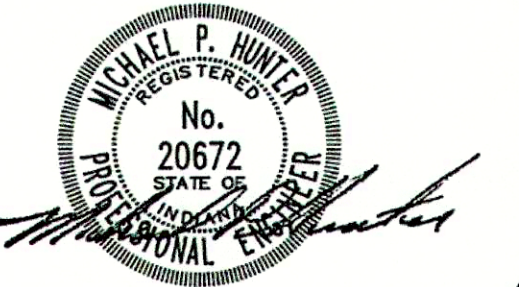


PROFILE VIEW IS FOR
INFORMATIONAL PURPOSES ONLY

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1. ALL SERVICE CONNECTIONS SHALL RUN FROM FORCEMAIN TO A SERVICE CONNECTION VALVE VAULT (SEE DETAIL, SHEET No. 20) LOCATED ADJACENT TO AND WITHIN EXISTING PUBLIC RIGHT-OF-WAY.
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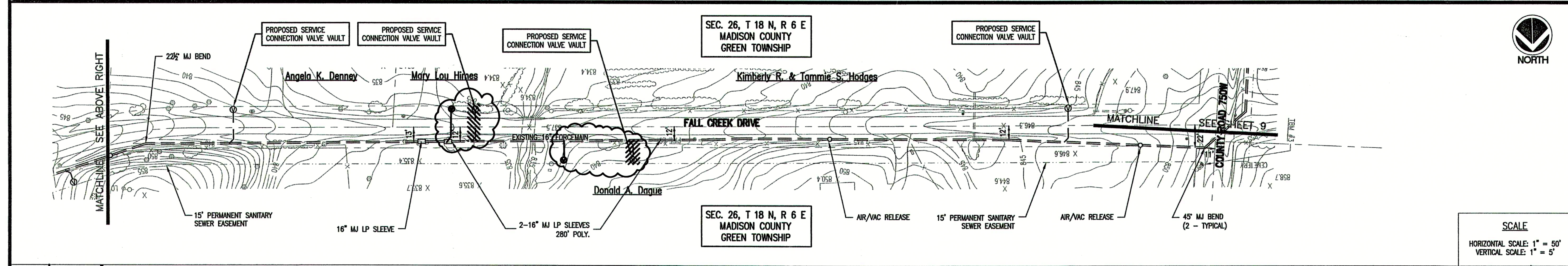
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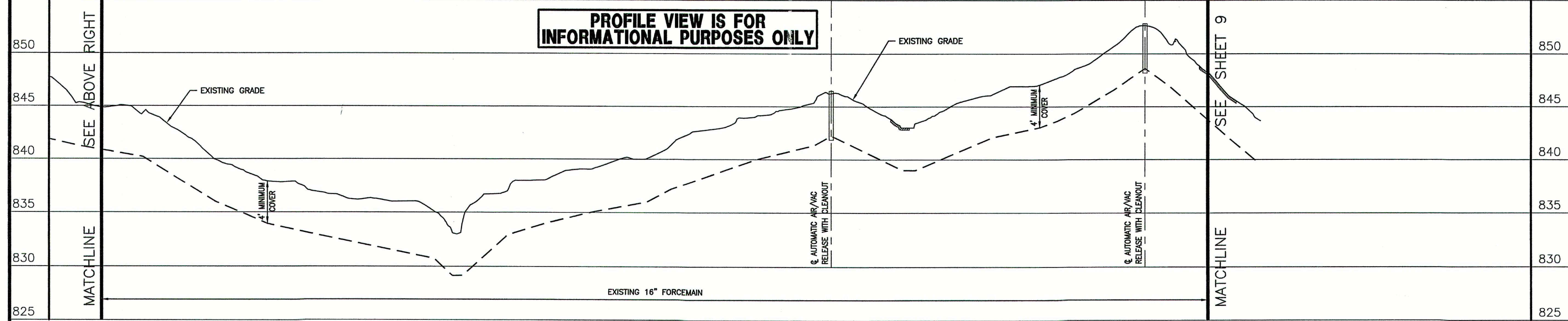
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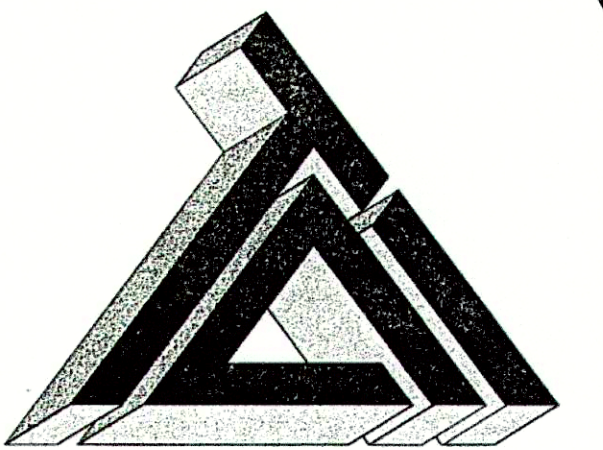


SCALE

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VERTICAL SCALE: 1" = 5'



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5835 LAWTON LOOP EAST DRIVE
INDIANAPOLIS, INDIANA 46216
PHONE: 317-377-5230 FAX: 317-377-5241

DESIGNED FOR:

FALL CREEK REGIONAL WASTE DISTRICT
SANITARY SEWER ADDITIONAL
CONNECTIONS AND SERVICE CONNECTIONS

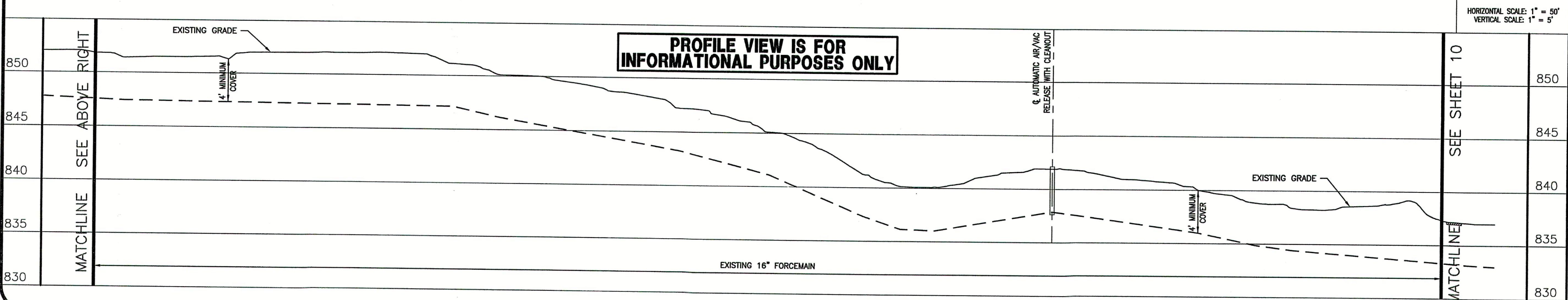
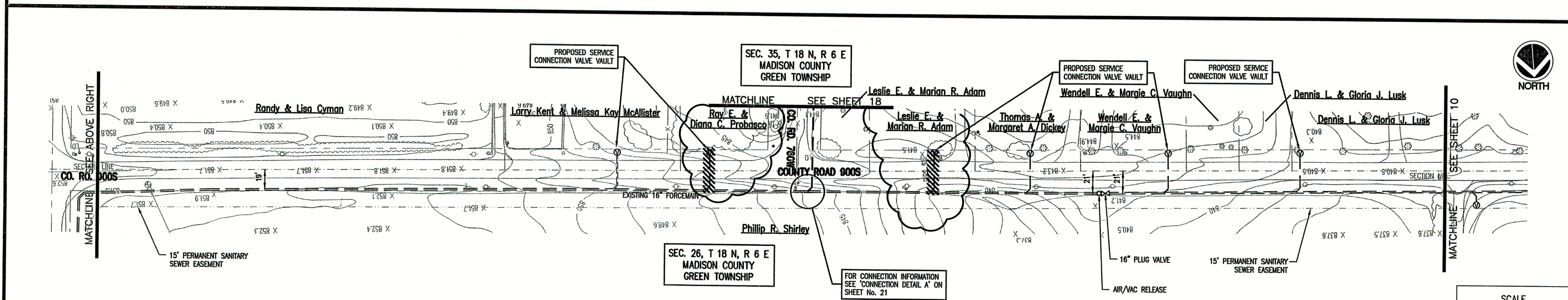
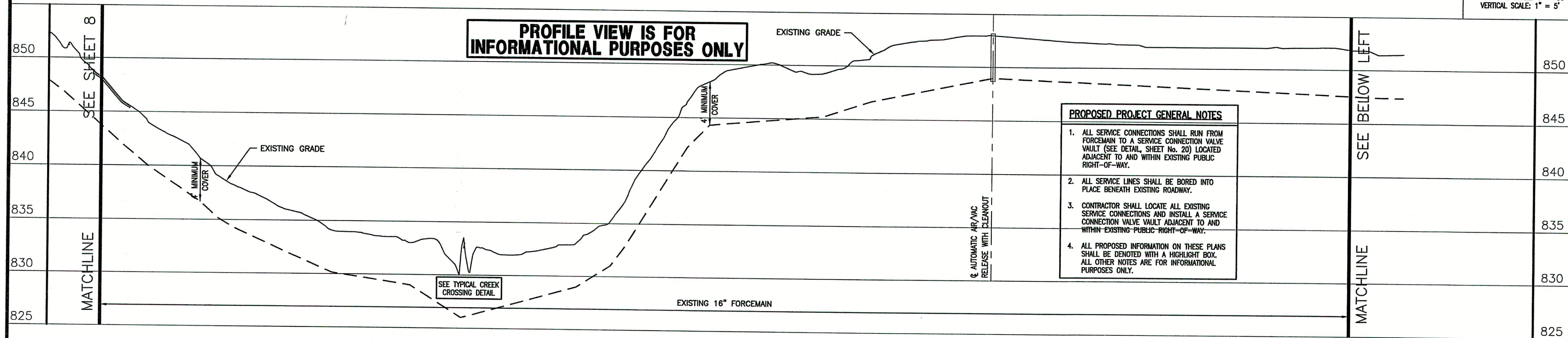
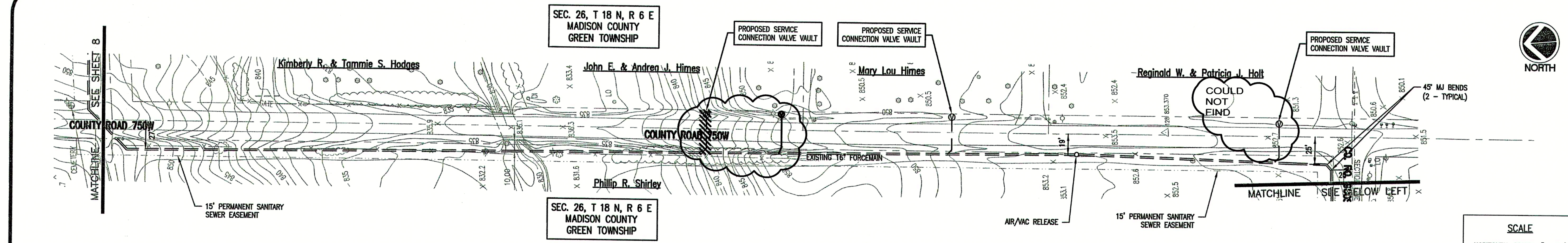
SHEET TITLE:
PROPOSED SERVICE CONNECTION PLAN
WITH EXISTING PLAN AND PROFILE

JOB NUMBER: 200402E
SCALE: AS NOTED
PLOT SCALE: 1" = 50'
DRAWN BY: DAP
CHECKED BY: J.W.F.
PLOT DATE: 12/21/04
DATE: NOVEMBER 2004
DESIGNED BY: Michael P. Hunter, P.E.
DRAWING NAME: 200402E-C8

SHEET No.

8

OF 21



CONSULTANT:

REVISIONS:

DATE	DESCRIPTION	BY
12-8-04	REVISED PER F.C.R.W.D.	BKY
12-21-04	REVISED PER F.C.R.W.D.	BKY
5-18-06	RECORD DRAWINGS	CJF

APPROVED BY:

RECORD DRAWING

This drawing has been reviewed from the original contract drawings to show minor/major changes made during construction. This drawing is not warranted to be complete and accurate in all respects.

GRW Engineers, Inc.

Date: 5-18-06 By: CJF

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TRIAD ASSOCIATES INC.
5835 LAWTON LOOP EAST DRIVE
INDIANAPOLIS, INDIANA 46216
PHONE: 317-377-5230 FAX: 317-377-5241

DESIGNED FOR:

FALL CREEK REGIONAL WASTE DISTRICT
SANITARY SEWER ADDITIONAL
CONNECTIONS AND SERVICE CONNECTIONS

SHEET TITLE:

PROPOSED SERVICE CONNECTION PLAN
WITH EXISTING PLAN AND PROFILE

JOB NUMBER: 200402E

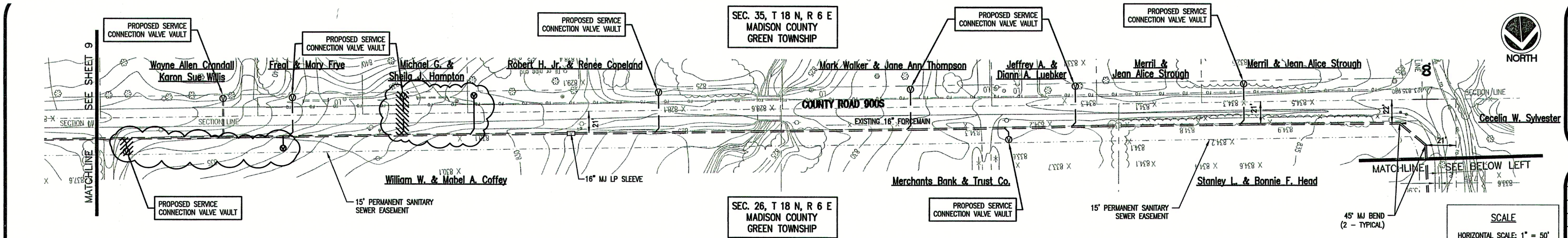
SCALE: AS NOTED

PLOT SCALE: 1" = 50'

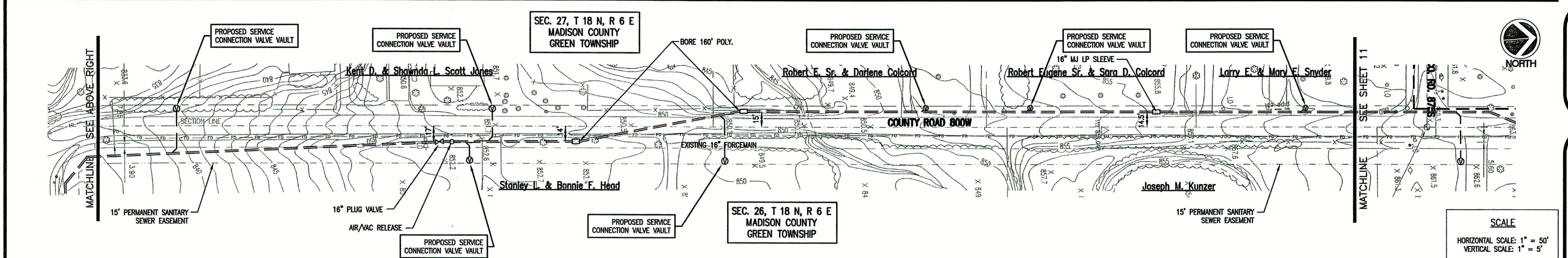
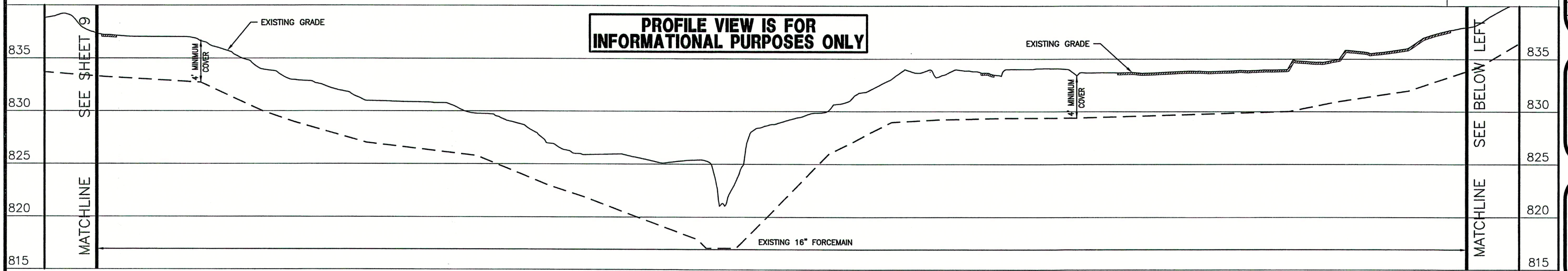
DRAWN BY: DAP

DESIGNED BY: Michael P. Hunter, P.E.

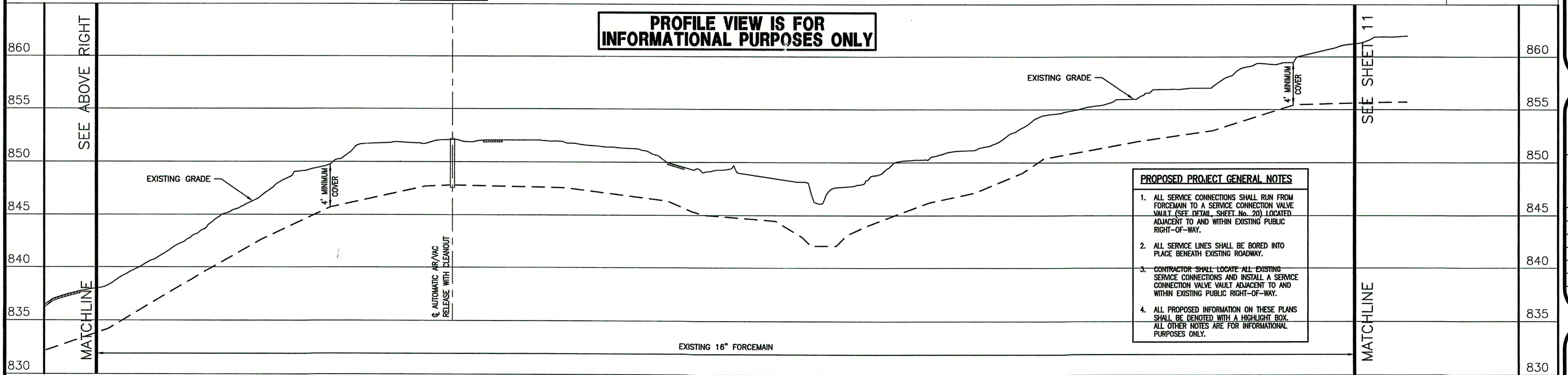
DRAWING NAME: 200402E-C9



SCALE
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'



SCALE
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'



- PROPOSED PROJECT GENERAL NOTES**
1. ALL SERVICE CONNECTIONS SHALL RUN FROM FORCE MAIN TO A SERVICE CONNECTION VALVE VAULT (SEE DETAIL SHEET No. 20) LOCATED ADJACENT TO AND WITHIN EXISTING PUBLIC RIGHT-OF-WAY.
 2. ALL SERVICE LINES SHALL BE BORED INTO PLACE BENEATH EXISTING ROADWAY.
 3. CONTRACTOR SHALL LOCATE ALL EXISTING SERVICE CONNECTIONS AND INSTALL A SERVICE CONNECTION VALVE VAULT ADJACENT TO AND WITHIN EXISTING PUBLIC RIGHT-OF-WAY.
 4. ALL PROPOSED INFORMATION ON THESE PLANS SHALL BE DENOTED WITH A HIGHLIGHT BOX. ALL OTHER NOTES ARE FOR INFORMATIONAL PURPOSES ONLY.

CONSULTANT:

REVISIONS:

DATE	DESCRIPTION	BY
12-8-04	REVISED PER F.C.R.W.D.	BKY
12-21-04	MISC. REVISIONS	BKY
5-18-06	RECORD DRAWINGS	CJF

APPROVED BY:



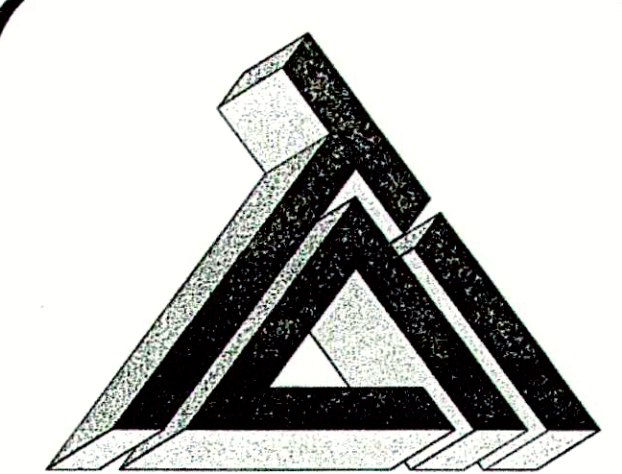
RECORD DRAWING

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GRW Engineers, Inc.

Date: 5-18-06 By: CJF

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TRIAD ASSOCIATES INC.
5835 LAWTON LOOP EAST DRIVE
INDIANAPOLIS, INDIANA 46216
PHONE: 317-377-5230 FAX: 317-377-5241

DESIGNED FOR:

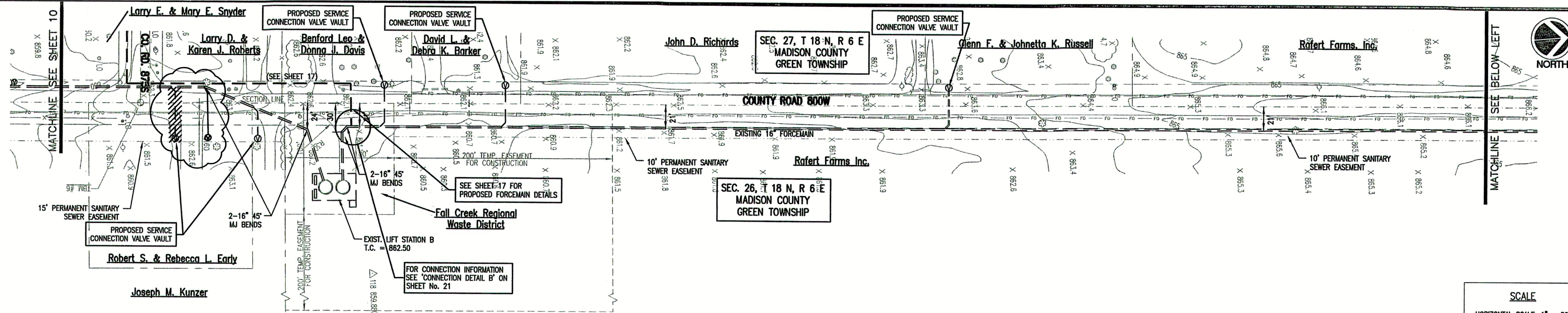
FALL CREEK REGIONAL WASTE DISTRICT
SANITARY SEWER ADDITIONAL
CONNECTIONS AND SERVICE CONNECTIONS

SHEET TITLE:
PROPOSED SERVICE CONNECTION PLAN
WITH EXISTING PLAN AND PROFILE

JOB NUMBER: 200402E	CHECKED BY: J.W.F.
SCALE: AS NOTED	PLOT DATE: 12/21/04
PLOT SCALE: 1" = 50'	DRAWN BY: DAP
DATE: NOVEMBER 2004	DESIGNED BY: Michael P. Hunter, P.E.
DRAWING NAME: 200402E-C10	

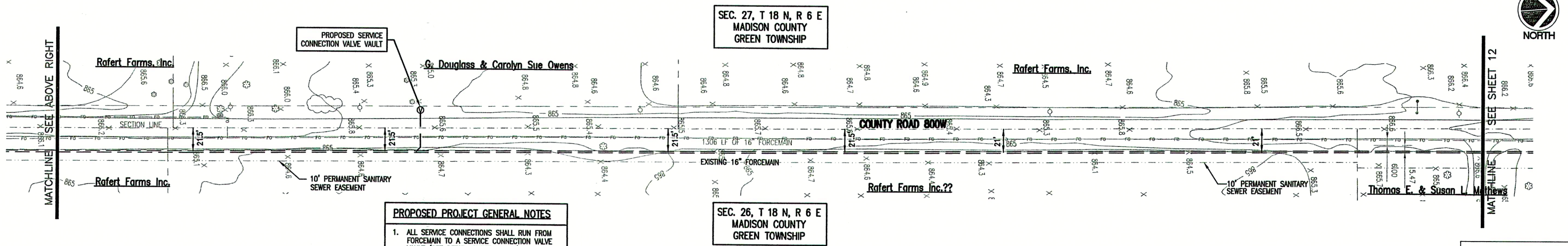
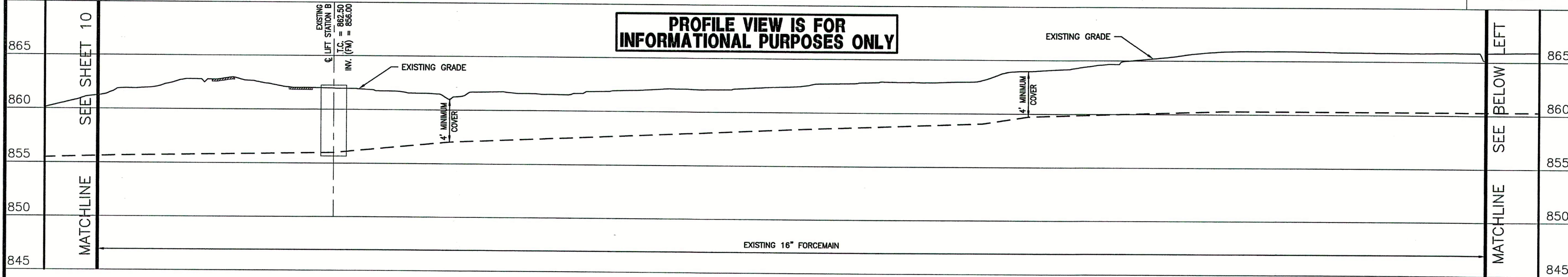
SHEET No.

10
OF 21



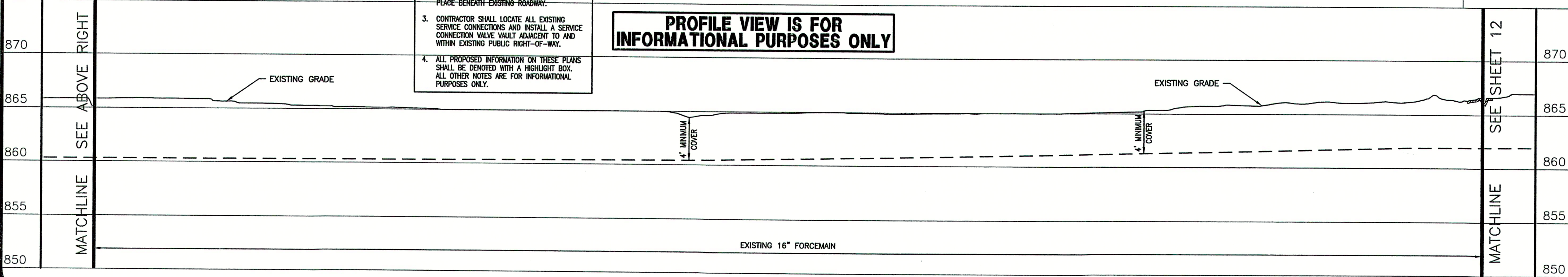
SCALE
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'

PROFILE VIEW IS FOR INFORMATIONAL PURPOSES ONLY



SCALE
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'

PROFILE VIEW IS FOR INFORMATIONAL PURPOSES ONLY



- PROPOSED PROJECT GENERAL NOTES**
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CONSULTANT:

REVISIONS:

DATE	DESCRIPTION	BY
12-8-04	REVISED PER F.C.R.W.D.	BKY
12-21-04	MISC. REVISIONS	BKY
5-18-06	RECORD DRAWINGS	CJF

APPROVED BY:

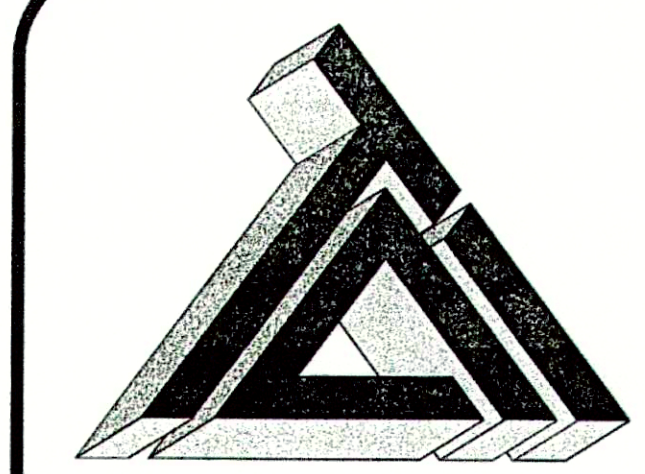


RECORD DRAWING

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GRW Engineers, Inc.
Date: 5-18-06 By: CJF

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TRIAD ASSOCIATES INC.
5835 LAWTON LOOP EAST DRIVE
INDIANAPOLIS, INDIANA 46216
PHONE: 317-377-5230 FAX: 317-377-5241

DESIGNED FOR:

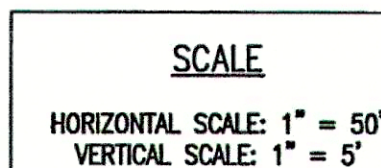
**FALL CREEK REGIONAL WASTE DISTRICT
SANITARY SEWER ADDITIONAL
CONNECTIONS AND SERVICE CONNECTIONS**

SHEET TITLE:
PROPOSED SERVICE CONNECTION PLAN
WITH EXISTING PLAN AND PROFILE

JOB NUMBER: 200402E	CHECKED BY: J.W.F.
SCALE: AS NOTED	PLOT DATE: 12/21/04
PLOT SCALE: 1" = 50'	DATE: APRIL 2001
DRAWN BY: DAP	DESIGNED BY: Michael P. Hunter, P.E.
DRAWING NAME: 200402E-C11	

SHEET NO.

11



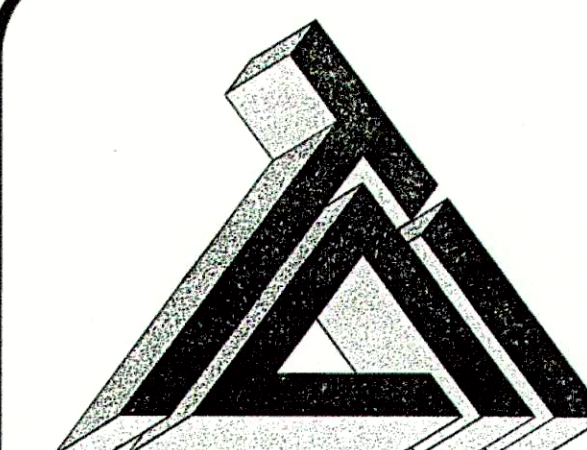
APPROVED BY:



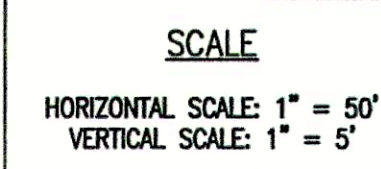
GRW Engineers, Inc.

Date: 5-18-06 By: CJF

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PHONE: 317-377-5230 FAX: 317-377-5241

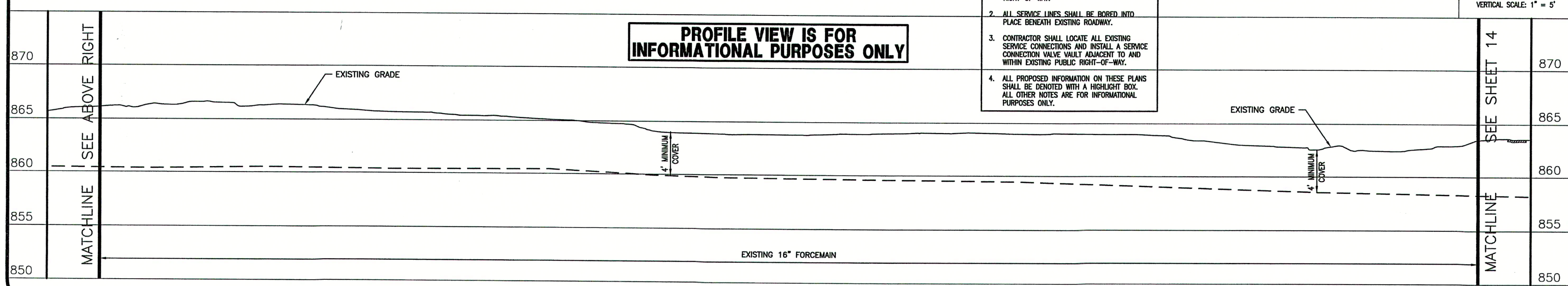
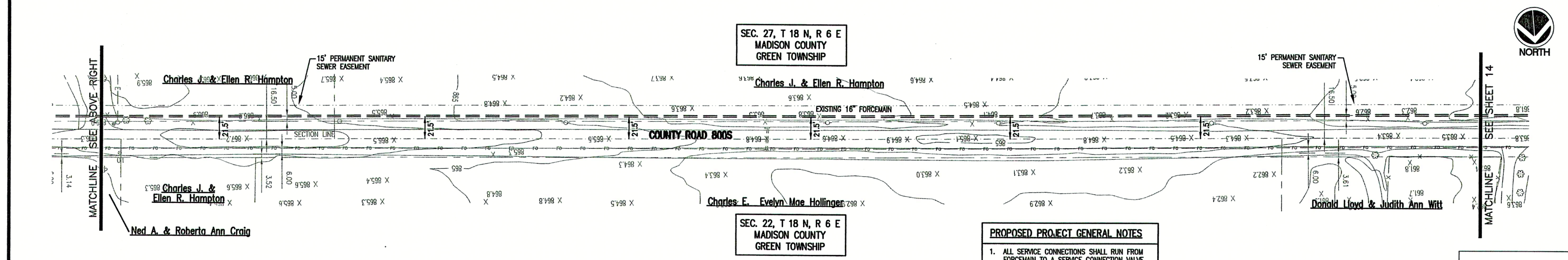
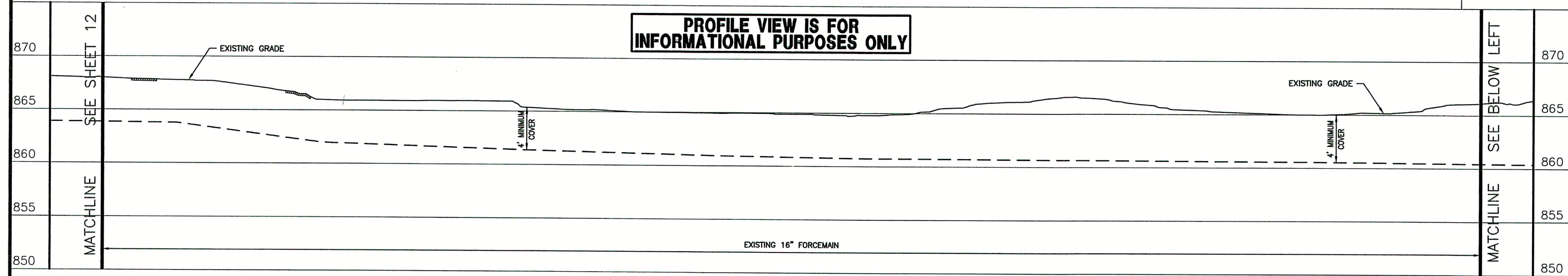
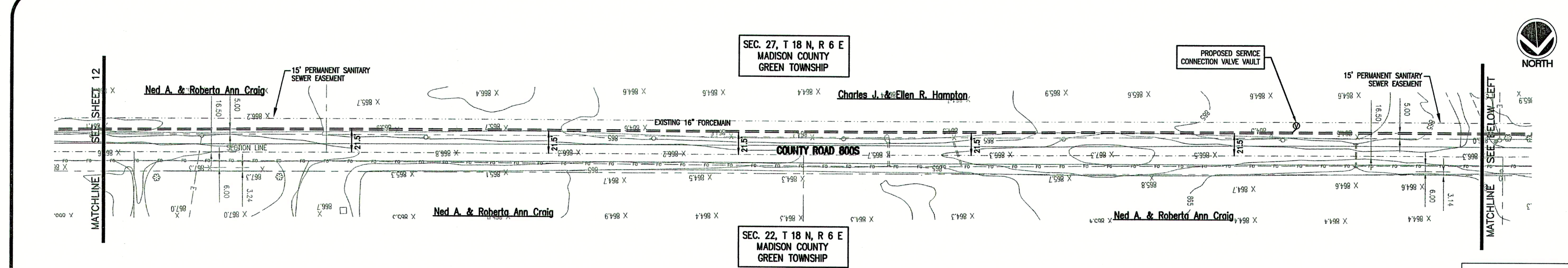


JOB NUMBER: 200402E	
SCALE: AS NOTED	CHECKED BY: J.W.F.
PLOT SCALE: 1 = 50	PLOT DATE: 12/21/04
DRAWN BY: DAP	DATE: NOVEMBER 2004
DESIGNED BY: Michael P. Hunter, P.E.	
DRAWING NAME: 200402E-C12	

SHEET No. 10

12

OF 2



- PROPOSED PROJECT GENERAL NOTES**
1. ALL SERVICE CONNECTIONS SHALL RUN FROM FORCEMAIN TO A SERVICE CONNECTION VALVE VAULT (SEE DETAIL, SHEET NO. 20) LOCATED ADJACENT TO AND WITHIN EXISTING PUBLIC RIGHT-OF-WAY.
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 3. CONTRACTOR SHALL LOCATE ALL EXISTING SERVICE CONNECTIONS AND INSTALL A SERVICE CONNECTION VALVE VAULT ADJACENT TO AND WITHIN EXISTING PUBLIC RIGHT-OF-WAY.
 4. ALL PROPOSED INFORMATION ON THESE PLANS SHALL BE DENOTED WITH A HIGHLIGHT BOX. ALL OTHER NOTES ARE FOR INFORMATIONAL PURPOSES ONLY.

CONSULTANT:

REVISIONS:

DATE	DESCRIPTION	BY
12-21-04	MISC. REVISIONS	BKY
5-18-06	RECORD DRAWINGS	CJF

APPROVED BY:

RECORD DRAWING

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GRW Engineers, Inc.
Date: 5-18-06 By: CJF

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TRIAD ASSOCIATES INC.
5835 LAWTON LOOP EAST DRIVE
INDIANAPOLIS, INDIANA 46216
PHONE: 317-377-5230 FAX: 317-377-5241

DESIGNED FOR:

FALL CREEK REGIONAL WASTE DISTRICT
SANITARY SEWER ADDITIONAL CONNECTIONS AND SERVICE CONNECTIONS

SHEET TITLE:

PROPOSED SERVICE CONNECTION PLAN WITH EXISTING PLAN AND PROFILE

JOB NUMBER: 200402E

SCALE: AS NOTED

PLOT SCALE: 1" = 50'

DRAWN BY: DAP

CHECKED BY: J.W.F.

PLOT DATE: 12/21/04

DATE: NOVEMBER 2004

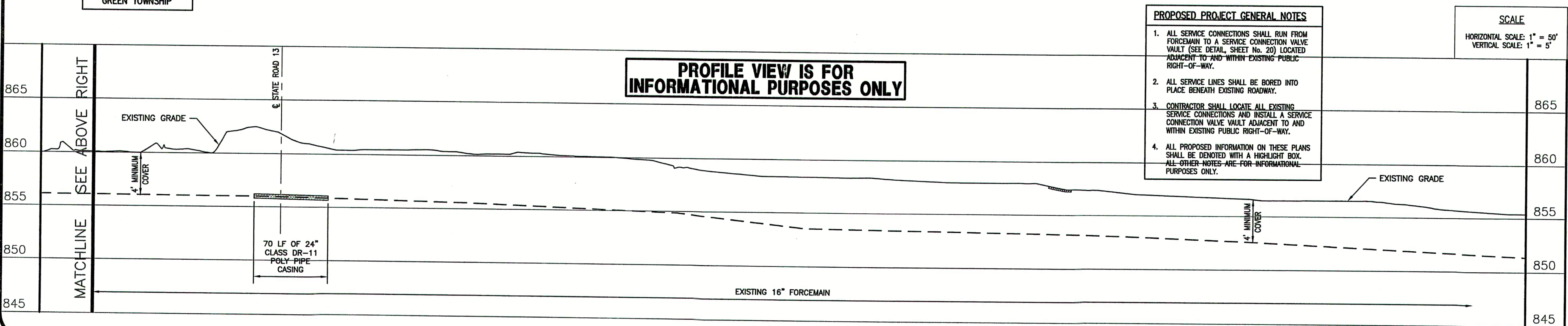
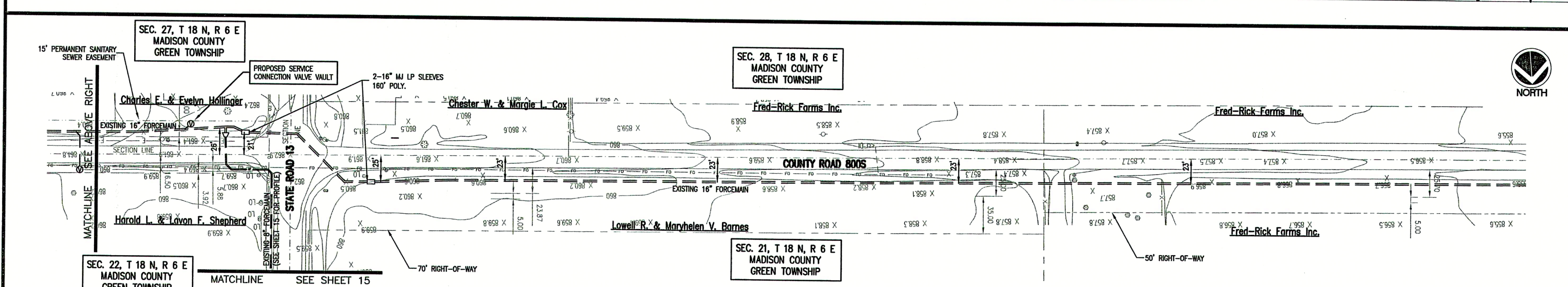
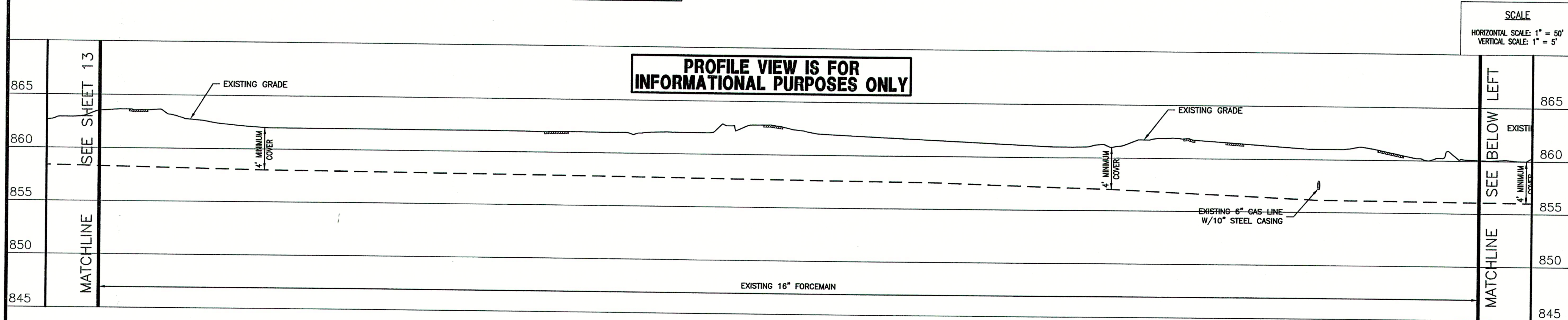
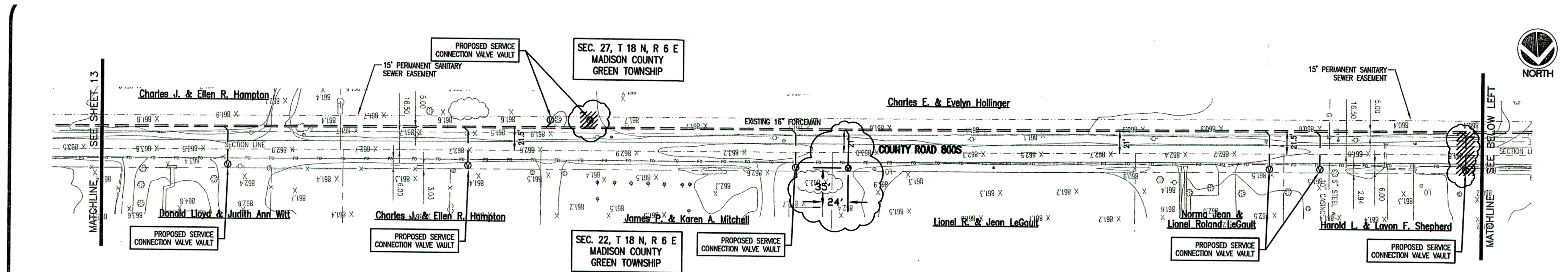
DESIGNED BY: Michael P. Hunter, P.E.

DRAWING NAME: 200402E-C13

SHEET No.

13

OF 21



- PROPOSED PROJECT GENERAL NOTES**
1. ALL SERVICE CONNECTIONS SHALL RUN FROM FORCEMAIN TO A SERVICE CONNECTION VALVE VAULT (SEE DETAIL SHEET No. 20) LOCATED ADJACENT TO AND WITHIN EXISTING PUBLIC RIGHT-OF-WAY.
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CONSULTANT:

REVISIONS:

DATE	DESCRIPTION	BY
12/21	MISC. REVISIONS	BNY
5-18-06	RECORD DRAWINGS	CJF

APPROVED BY:

Michael P. Hunter
No. 20672
Professional Engineer

RECORD DRAWING

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GRW Engineers, Inc.
Date: 5-18-06 By: CJF

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TRIAD ASSOCIATES INC.
5835 LAWTON LOOP EAST DRIVE
INDIANAPOLIS, INDIANA 46216
PHONE: 317-377-5230 FAX: 317-377-5241

DESIGNED FOR:

FALL CREEK REGIONAL WASTE DISTRICT
SANITARY SEWER ADDITIONAL CONNECTIONS AND SERVICE CONNECTIONS

SHEET TITLE:

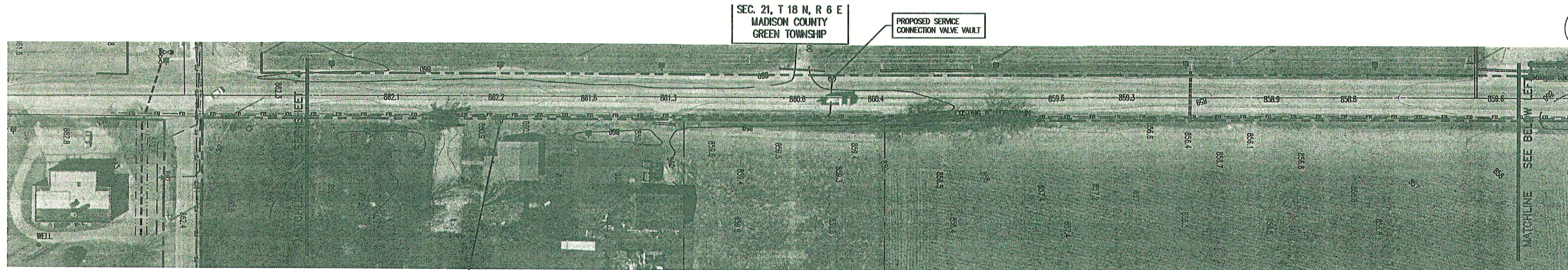
PROPOSED SERVICE CONNECTION PLAN WITH EXISTING PLAN AND PROFILE

JOB NUMBER: 200402E	CHECKED BY: J.W.F.
SCALE: AS NOTED	PLOT DATE: 12/21/04
PLOT SCALE: 1" = 50'	DRAWN BY: DAP
DATE: NOVEMBER 2004	DESIGNED BY: Michael P. Hunter, P.E.
DRAWING NAME: 200402E-C14	

SHEET No.

14

OF 21



CONSULTANT:

REVISIONS:

DATE	DESCRIPTION	BY
12-8-04	REVISED PER F.C.R.W.D.	BKY
12-21-04	MISC. REVISIONS	BKY
5-18-06	RECORD DRAWINGS	CJF

APPROVED BY:



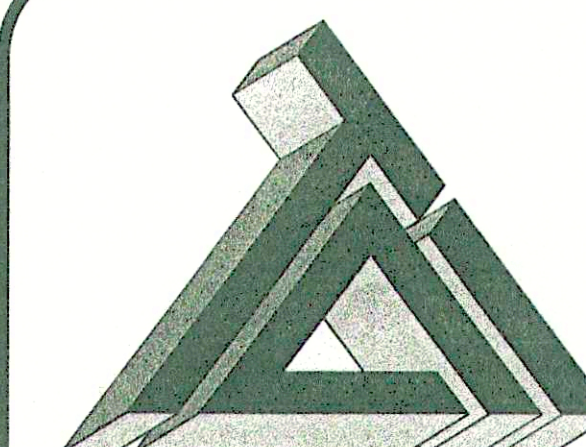
RECORD DRAWING

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GRW Engineers, Inc.

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TRIAD ASSOCIATES INC.
5835 LAWTON LOOP EAST DRIVE
INDIANAPOLIS, INDIANA 46216
PHONE: 317-377-5230 FAX: 317-377-5241

DESIGNED FOR:

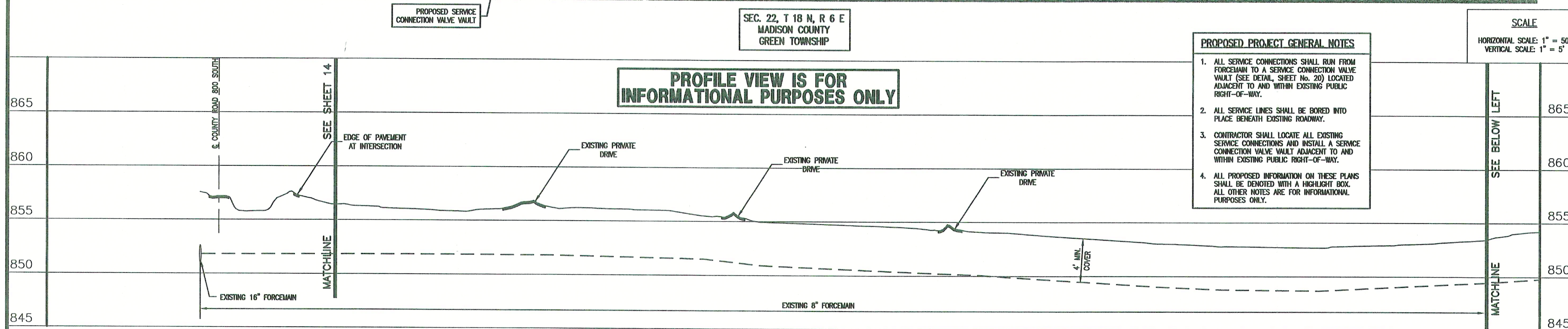
FALL CREEK REGIONAL WASTE DISTRICT
SANITARY SEWER ADDITIONAL
CONNECTIONS AND SERVICE CONNECTIONS

SHEET TITLE:
PROPOSED SERVICE CONNECTION PLAN
WITH EXISTING PLAN AND PROFILE

JOB NUMBER: 200402E
SCALE: AS NOTED CHECKED BY: J.W.F.
PLOT SCALE: 1" = 50' PLOT DATE: 12/21/04
DRAWN BY: DAP DATE: OCT. 2004
DESIGNED BY: Michael P. Hunter, P.E.
DRAWING NAME: CAREFREE-PP1

SHEET No.

15
OF 21



**PROFILE VIEW IS FOR
INFORMATIONAL PURPOSES ONLY**

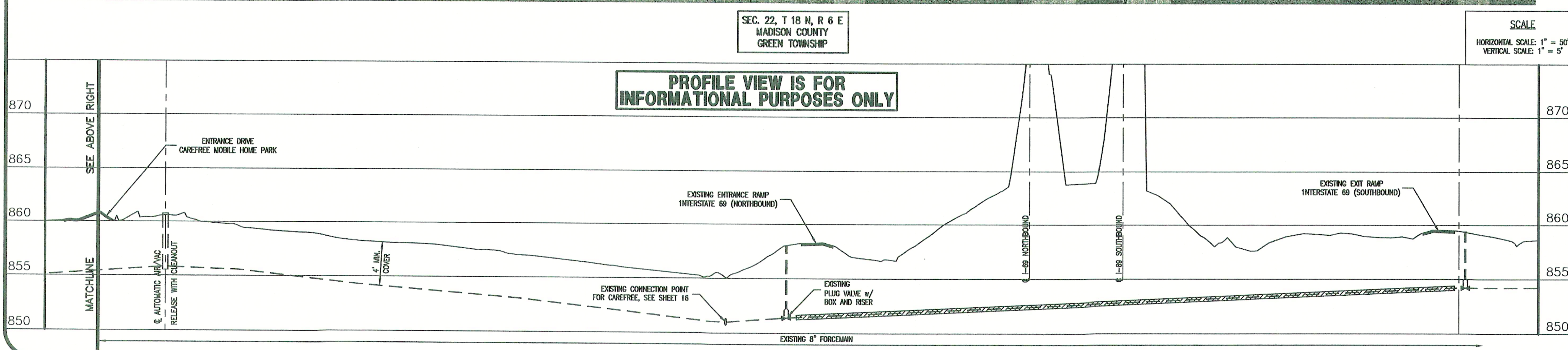
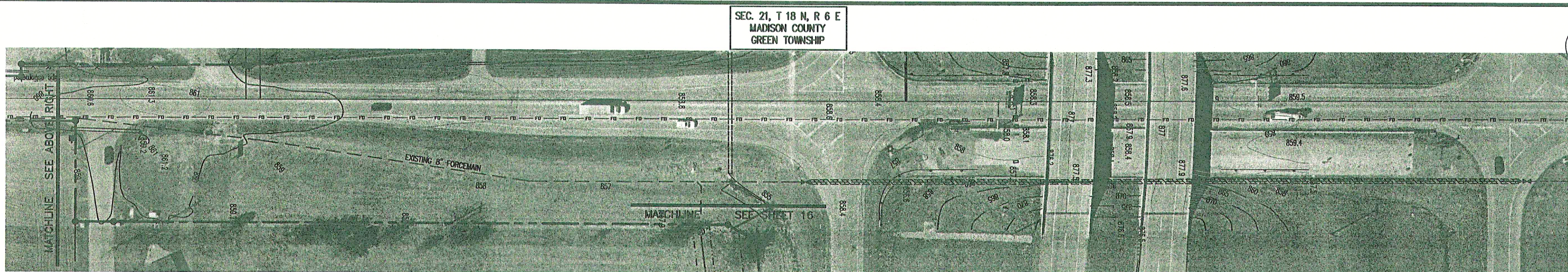
PROPOSED PROJECT GENERAL NOTES

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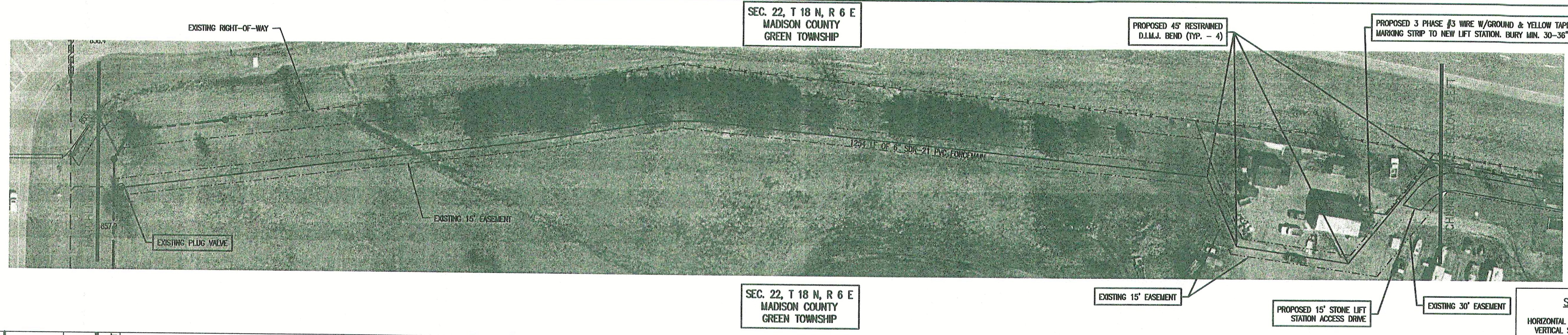
SCALE

HORIZONTAL SCALE: 1" = 50'

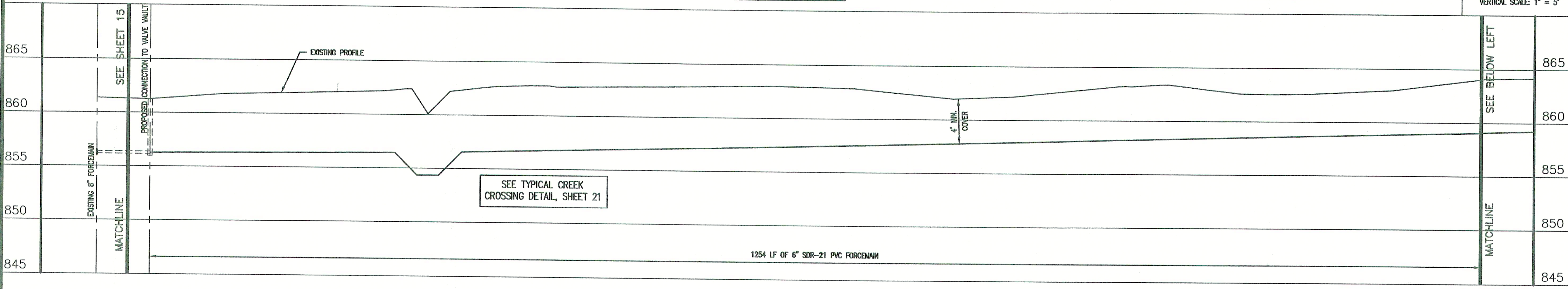
VERTICAL SCALE: 1" = 5'



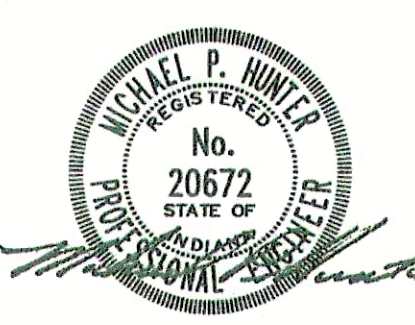
**PROFILE VIEW IS FOR
INFORMATIONAL PURPOSES ONLY**



CONSULTANT:		
REVISIONS:		
DATE	DESCRIPTION	BY
12-21-04	MISC. REVISIONS	BKY
5-18-06	RECORD DRAWINGS	CJF



APPROVED BY:

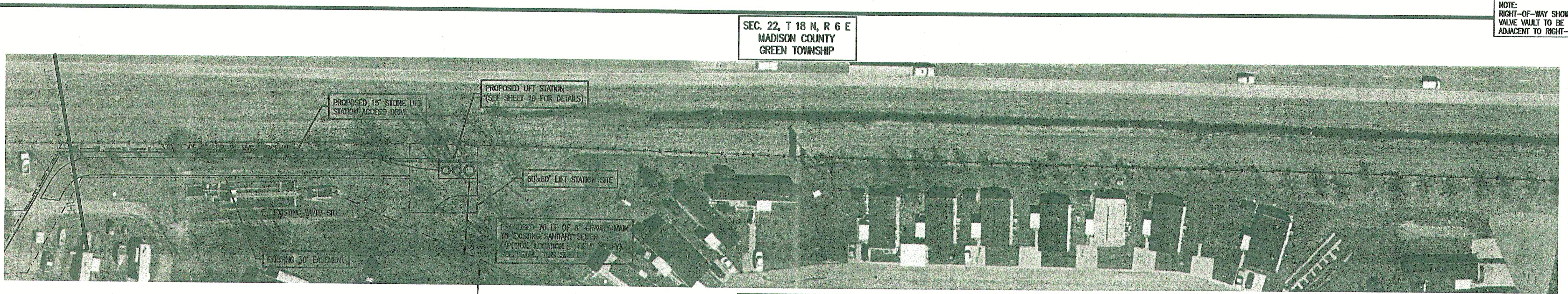


RECORD DRAWING

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GRW Engineers, Inc.

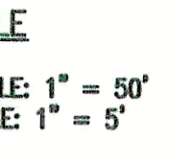
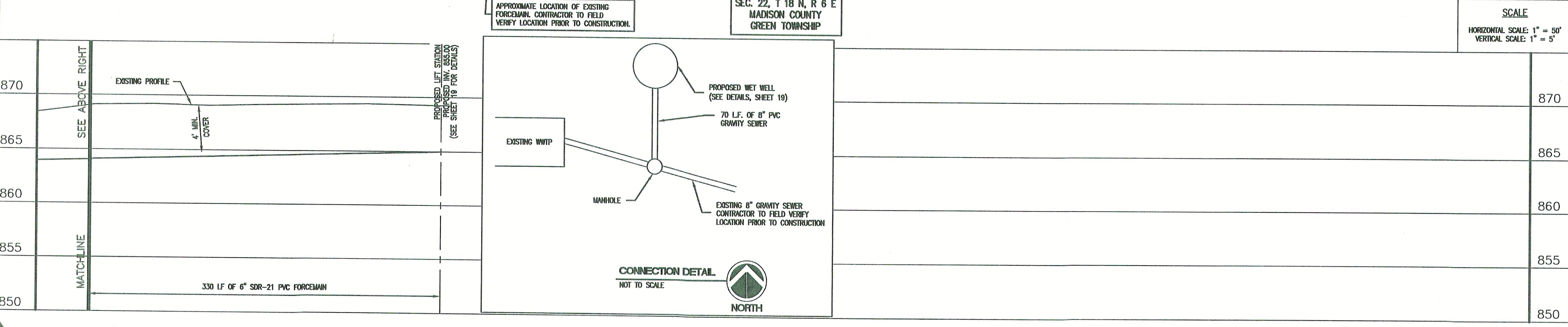
Date: 5-18-06 By: CJF



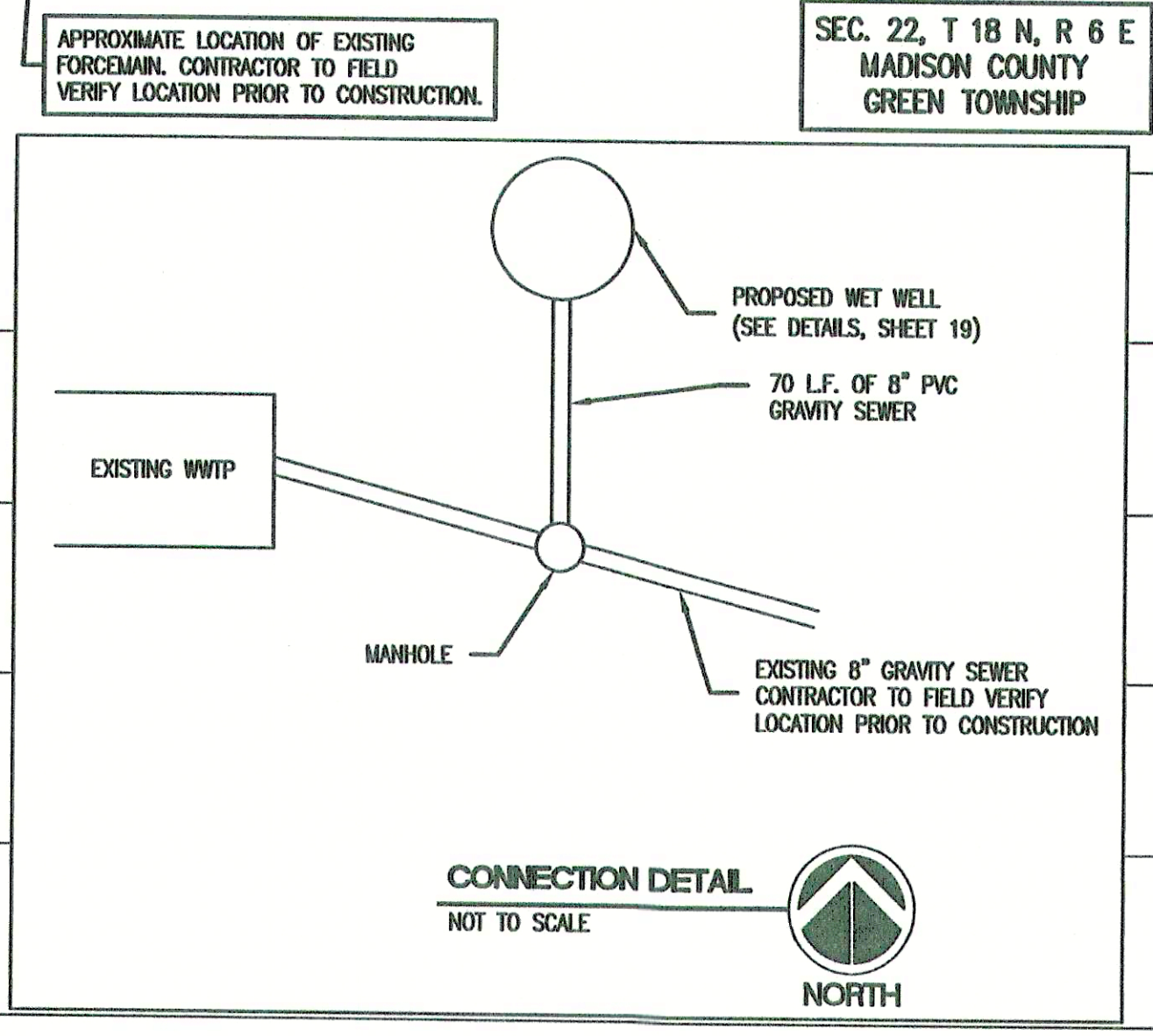
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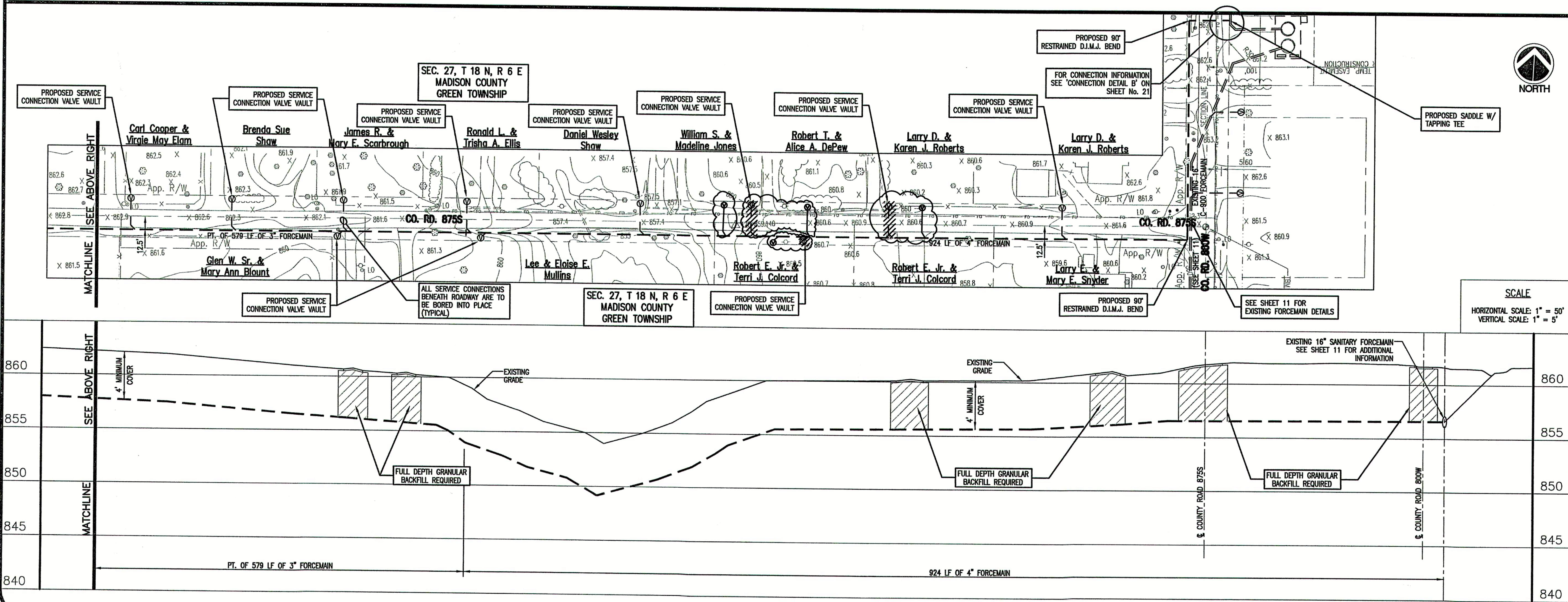
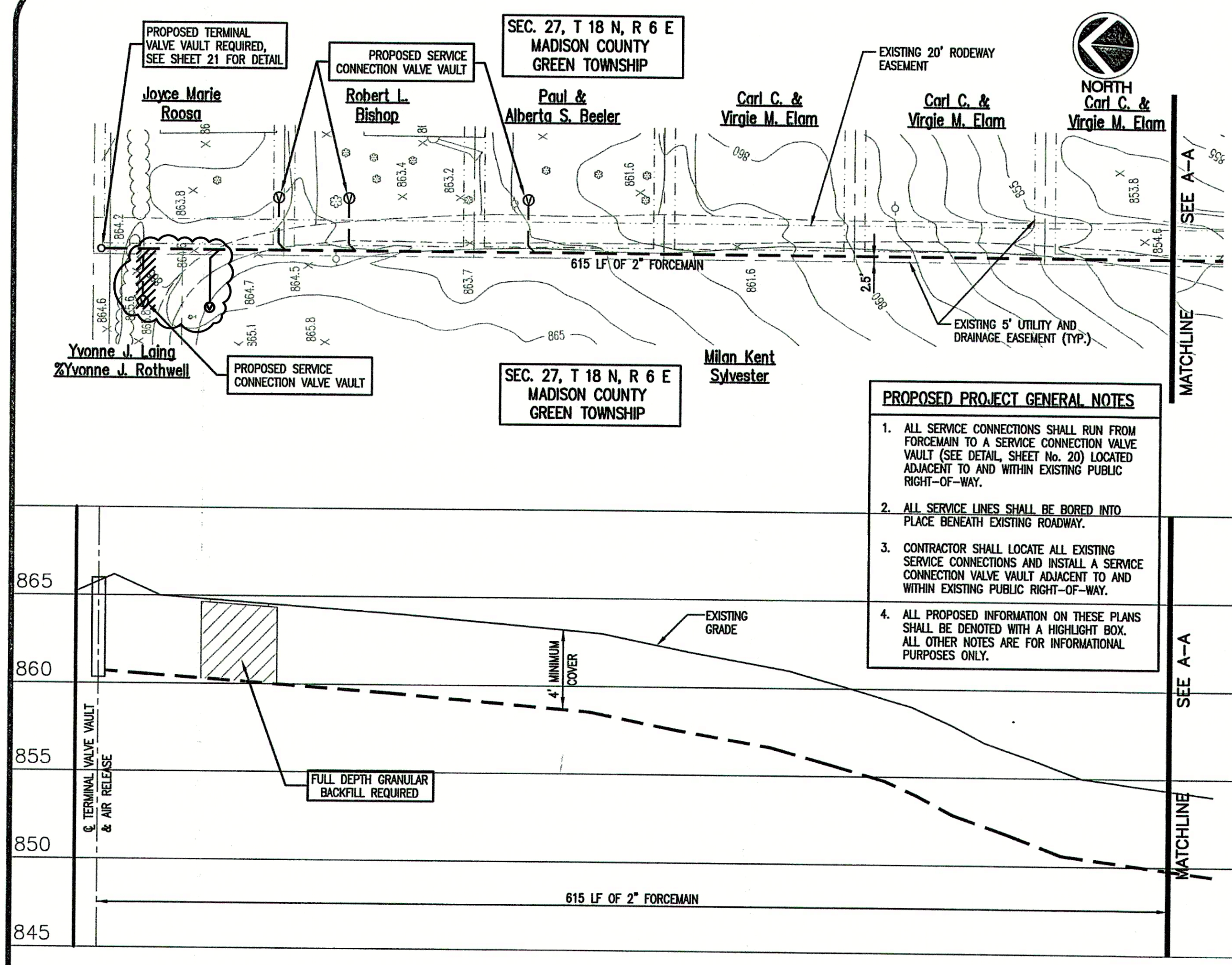


TRIAD ASSOCIATES INC.
5835 LAWTON LOOP EAST DRIVE
INDIANAPOLIS, INDIANA 46216
PHONE: 317-377-5230 FAX: 317-377-5241



DESIGNED FOR:	
FALL CREEK REGIONAL WASTE DISTRICT SANITARY SEWER ADDITIONAL CONNECTIONS AND SERVICE CONNECTIONS	
SHEET TITLE: PROPOSED PLAN AND PROFILE AND SERVICE CONNECTIONS	
JOB NUMBER: 200402E	CHECKED BY: J.W.F.
SCALE: AS NOTED	PLOT DATE: 12/21/04
PLOT SCALE: 1" = 50'	DATE: OCT. 2004
DRAWN BY: DAP	DESIGNED BY: Michael P. Hunter, P.E.
DRAWING NAME: CAREFREE-PP2	





CONSULTANT:

REVISIONS:

DATE	DESCRIPTION	BY
12-8-04	REVISED PER F.C.R.W.D.	BKY
12-21-04	MISC. REVISIONS	BKY
5-18-06	RECORD DRAWINGS	CJF

APPROVED BY:

RECORD DRAWING

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GRW Engineers, Inc.

Date: 5-18-06 By: CJF

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TRIAD ASSOCIATES INC.
5835 LAWTON LOOP EAST DRIVE
INDIANAPOLIS, INDIANA 46216
PHONE: 317-377-5230 FAX: 317-377-5241

DESIGNED FOR:

FALL CREEK REGIONAL WASTE DISTRICT
SANITARY SEWER ADDITIONAL
CONNECTIONS AND SERVICE CONNECTIONS

SHEET TITLE:

PROPOSED PLAN AND PROFILE
AND SERVICE CONNECTIONS

JOB NUMBER: 200402E

SCALE: AS NOTED

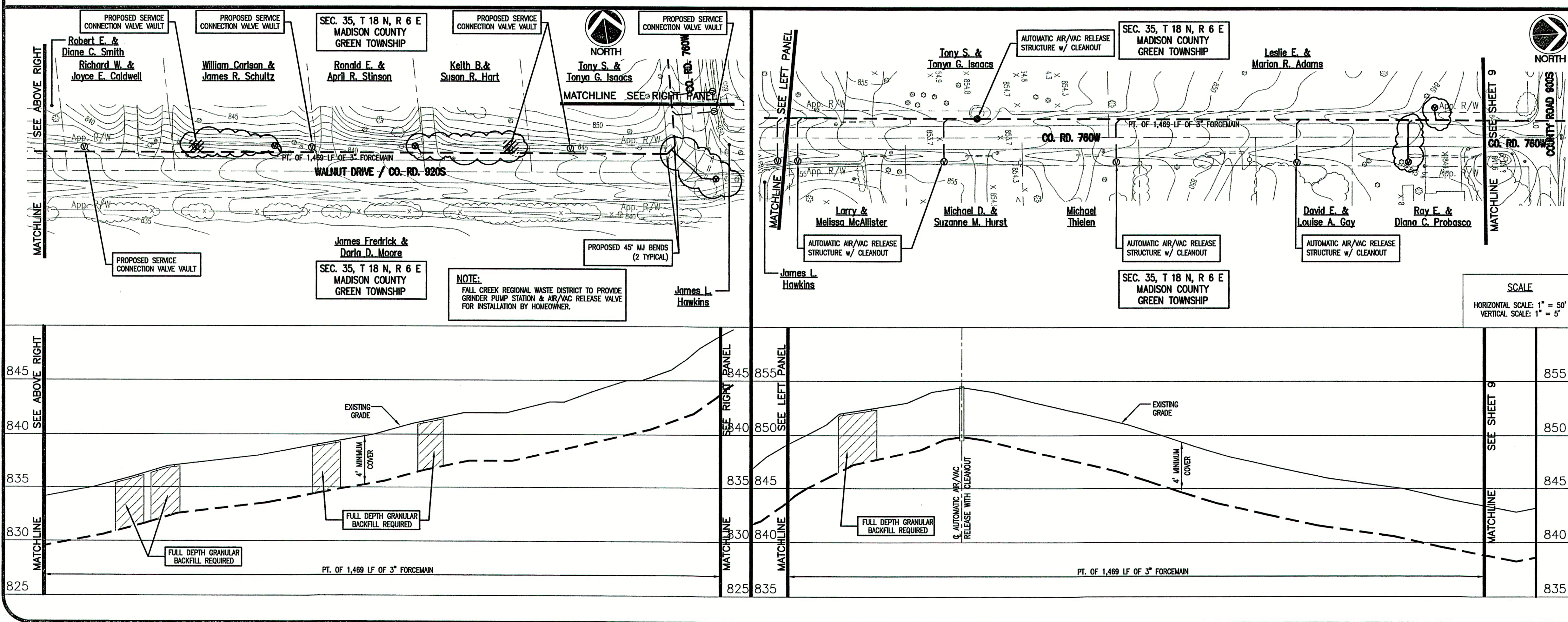
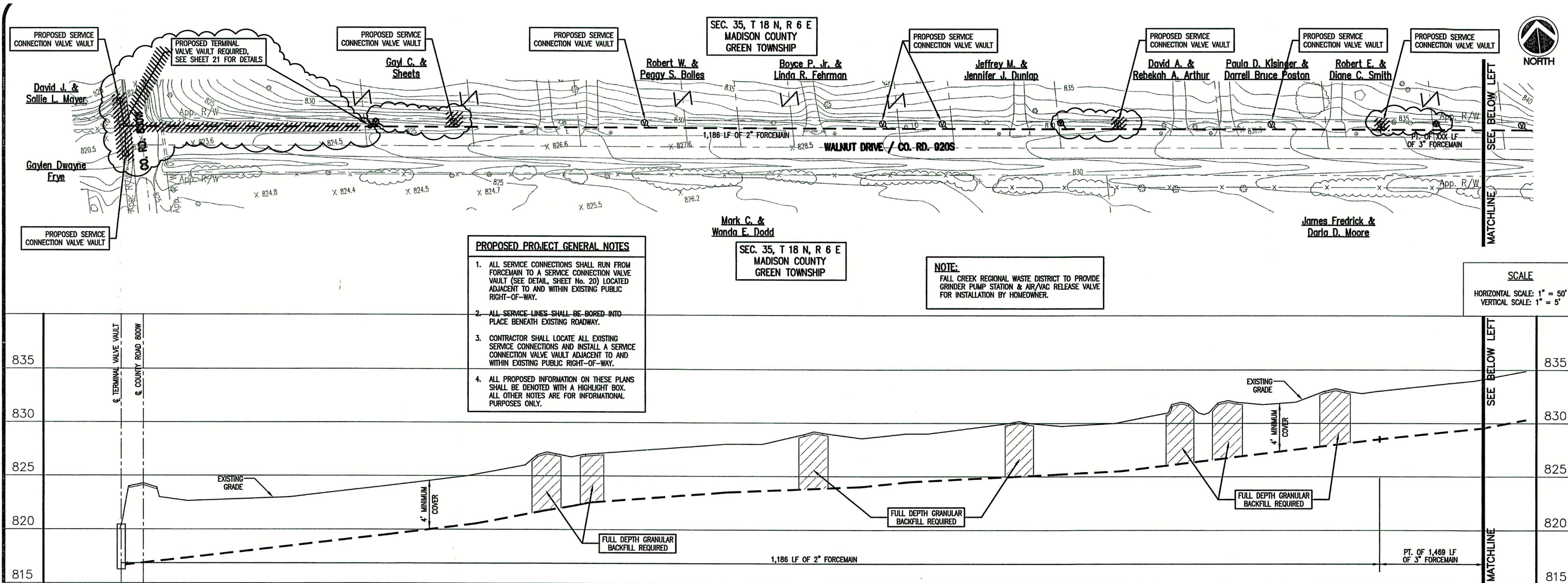
PLOT SCALE: 1" = 50'

DRAWN BY: JEC

DESIGNED BY: Michael P. Hunter, P.E.

DRAWING NAME: 200402E-C17

SHEET No. 17 OF 21



CONSULTANT:

REVISIONS:

DATE	DESCRIPTION	BY
12-8-04	REVISED PER F.C.R.W.D.	BKY
12-21-04	REVISED PER F.C.R.W.D.	BKY
5-18-06	RECORD DRAWINGS	CJF

APPROVED BY:

RECORD DRAWING

This drawing has been revised from the original contract drawings to show minor / major changes made during construction. This drawing is not warranted to be complete and accurate in all respects.

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PLOT SCALE: 1" = 50'

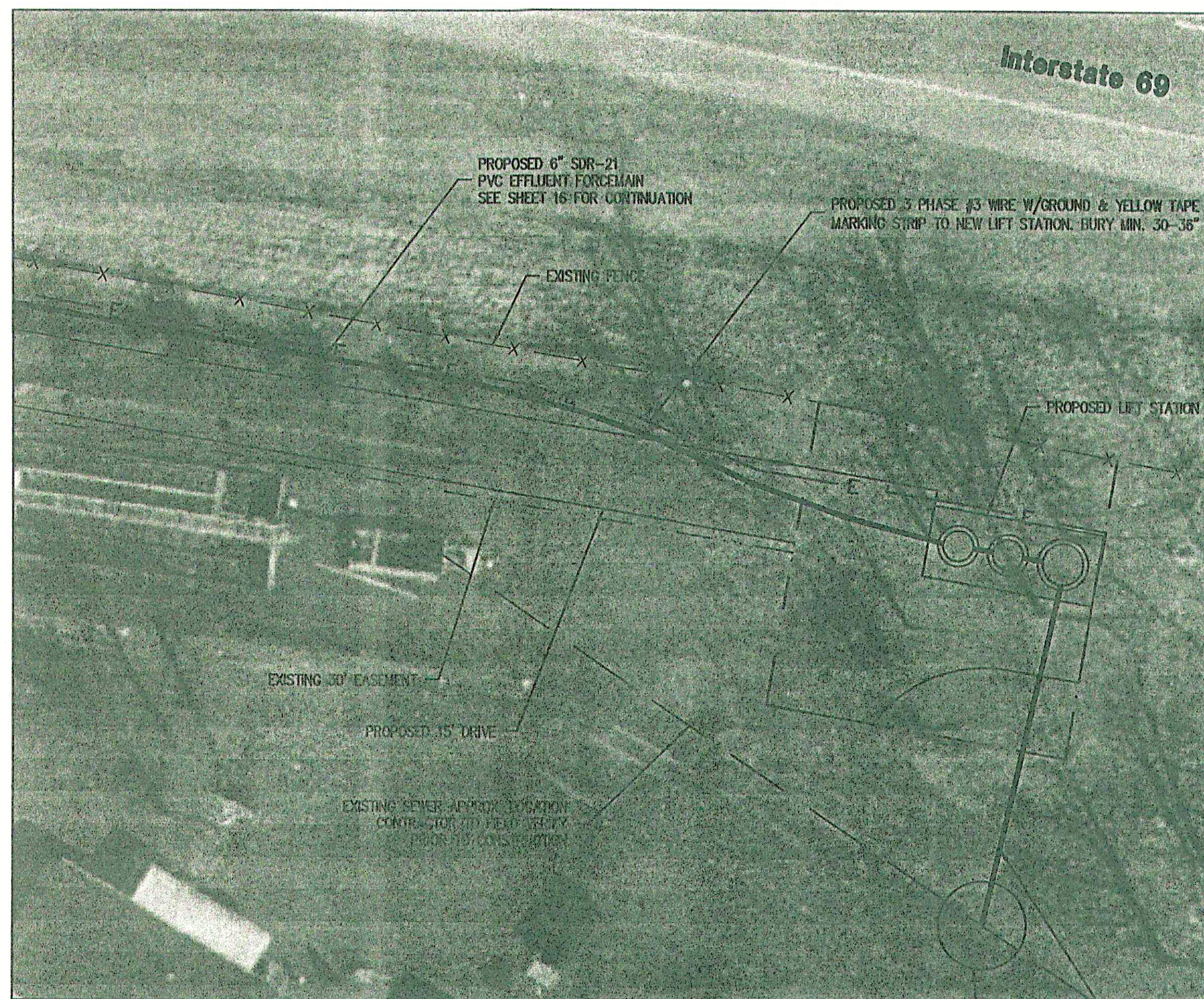
DRAWN BY: JEC / DAP

DATE: NOVEMBER 2004

DESIGNED BY: Michael P. Hunter, P.E.

DRAWING NAME: 200402E-C16

SHEET No.
18
OF 21



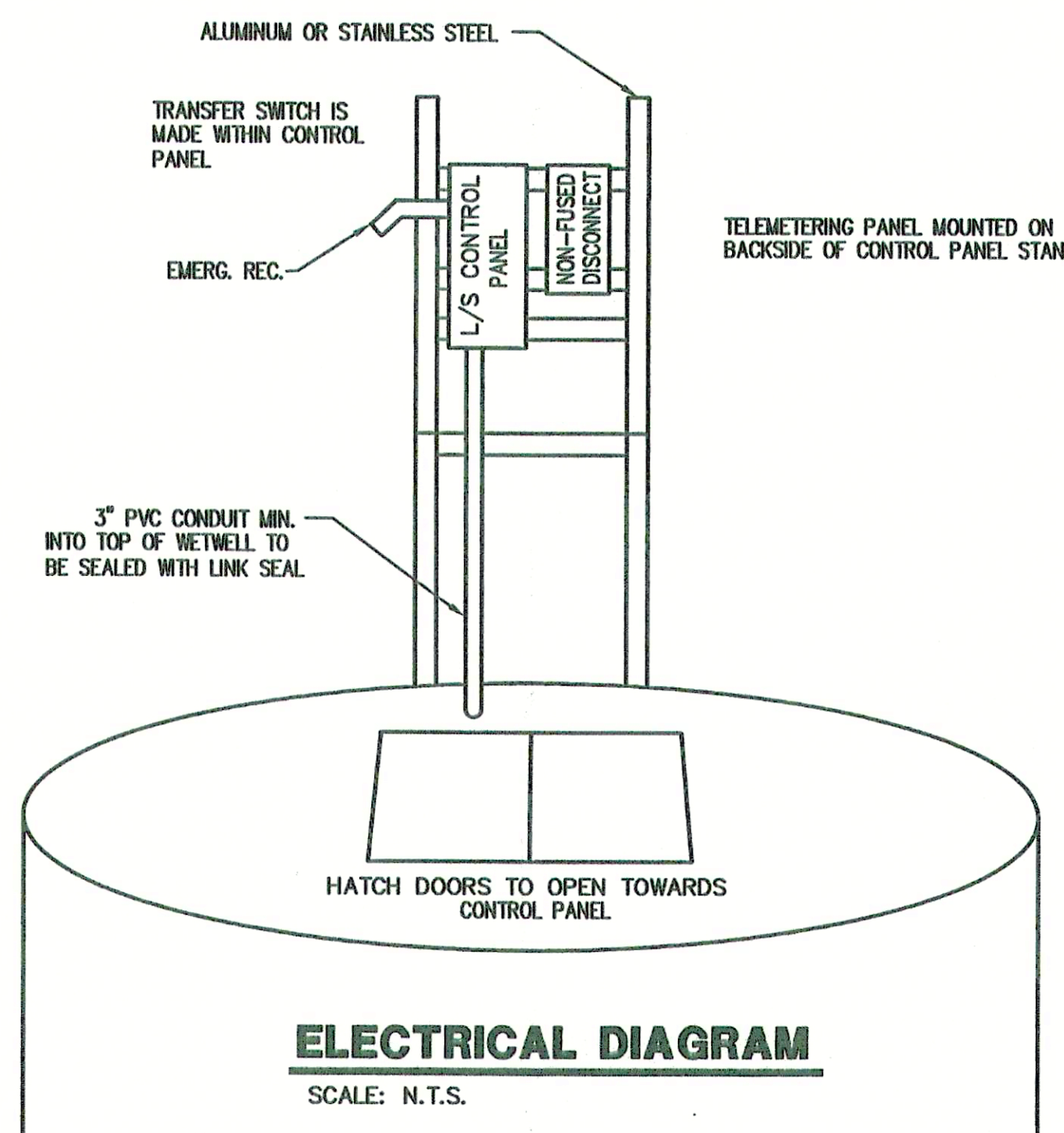
LIFT STATION PLAN VIEW

SCALE: 1" = 20'



PROPOSED 8" PVC
INFLUENT GRAVITY MAIN
(SEE SHEET 16 FOR DETAILS)

SEE SHEET 16 FOR
CONNECTION DETAIL

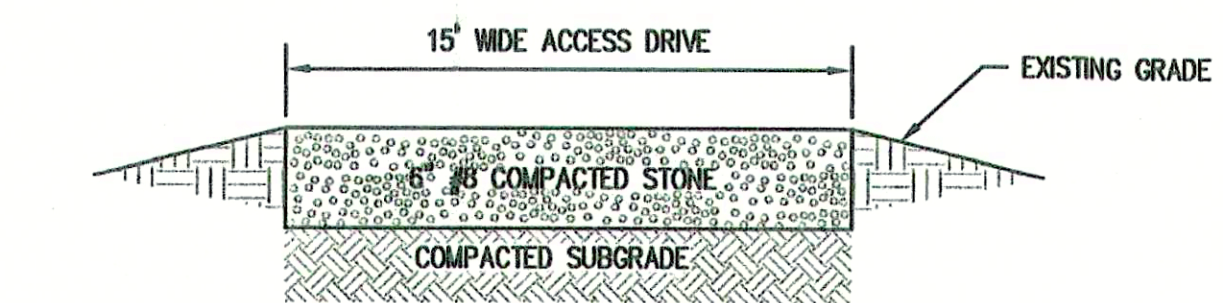


ELECTRICAL DIAGRAM

SCALE: N.T.S.

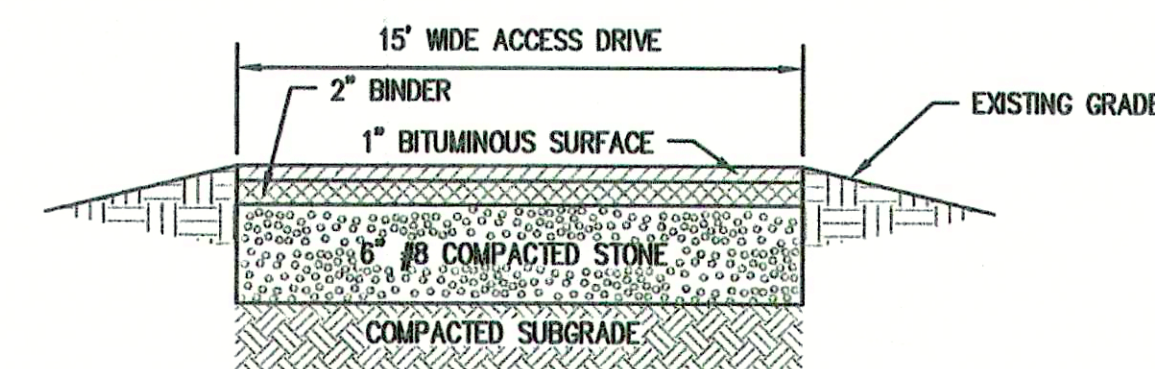
GENERAL NOTES:

1. CONTRACTOR TO VERIFY AVAILABLE POWER SOURCE PRIOR TO EQUIPMENT ORDER AND COORDINATE WORK WITH ELECTRIC UTILITY COMPANY.
2. PIPE PENETRATIONS TO UTILIZE FLEXIBLE BOOTS, CONNECTORS, CAST IN PLACE GASKETS, ETC. TO BE APPROVED BY ENGINEER PRIOR TO CONSTRUCTION.
3. CONTRACTOR TO INSTALL ALL EQUIPMENT IN COMPLETE ACCORDANCE WITH ALL MANUFACTURER'S RECOMMENDATIONS.
4. ALL FASTENERS, SUPPORTS, ETC. TO BE STAINLESS STEEL.
5. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION.
6. ALL CONCRETE TO BE MINIMUM F_c = 4000 psi. ALL REINFORCING STEEL TO BE MINIMUM F_y = 60,000 psi.
7. ALL FERROUS METAL SURFACES TO BE PREPARED AND PAINTED.
8. CONTRACTOR TO COORDINATE WITH ALL OTHER APPLICABLE PLAN SHEETS AND SPECIFICATIONS.
9. CONTRACTOR TO TEST ALL EQUIPMENT, PIPING, STRUCTURES, ETC. IN ACCORDANCE WITH THE SPECIFICATIONS, PRIOR TO PLACING THE STATION INTO SERVICE IN THE PRESENCE OF ENGINEERS AND MANUFACTURER'S REPRESENTATIVES.
10. CONCRETE STRUCTURE BELOW GRADE SHALL BE COATED WITH A BITUMINOUS COATING PER SPECIFICATIONS. INTERIOR TO BE COATED COATED WITH A HYDROGEN SULFIDE RESISTANT COATING.



LIFT STATION DRIVE CROSS SECTION

SCALE: N.T.S.



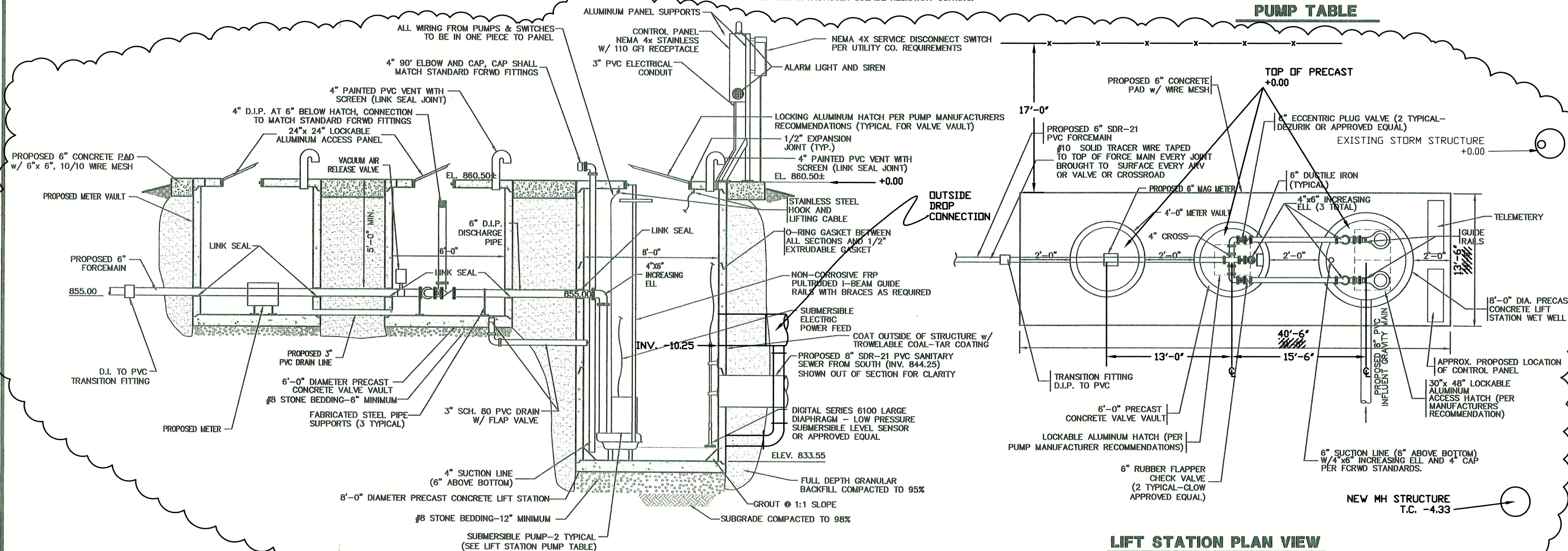
LIFT STATION DRIVE CROSS SECTION - ALTERNATE

SCALE: N.T.S.

PUMP DATA TABLE	
CAPACITY	220 GPM
TDH	65 FEET
HP(min.)	7.5
IMPELLER	8.25"
RPM	1750
VOLTAGE	120/208
PHASE	3
TYPE	NON-CLOG
DISCHARGE	4"

TRANSDUCER SET POINTS	
FLOAT FUNCTION	ELEVATION
PUMPS OFF	835.05
LEAD PUMP ON	840.25
ALARM	841.25
LAG PUMP ON	840.75

LIFT STATION PUMP TABLE



LIFT STATION PLAN VIEW

SCALE: N.T.S.

CONSULTANT:

REVISIONS:

DATE	DESCRIPTION	BY
12-8-04	REVISED PER F.C.R.W.D.	BKY
12-21-04	MISC. REVISIONS	BKY
5-18-06	RECORD DRAWINGS	CJF

APPROVED BY:



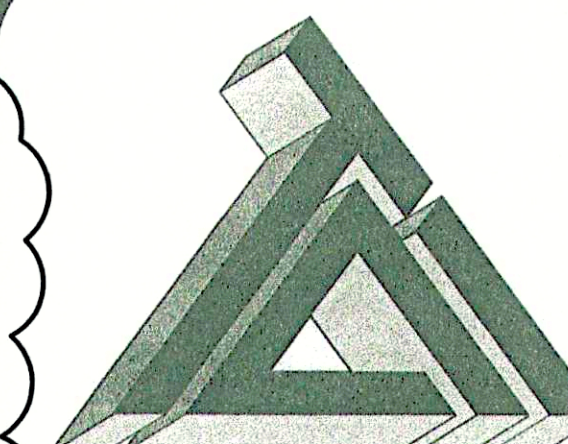
RECORD DRAWING

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DESIGNED FOR:

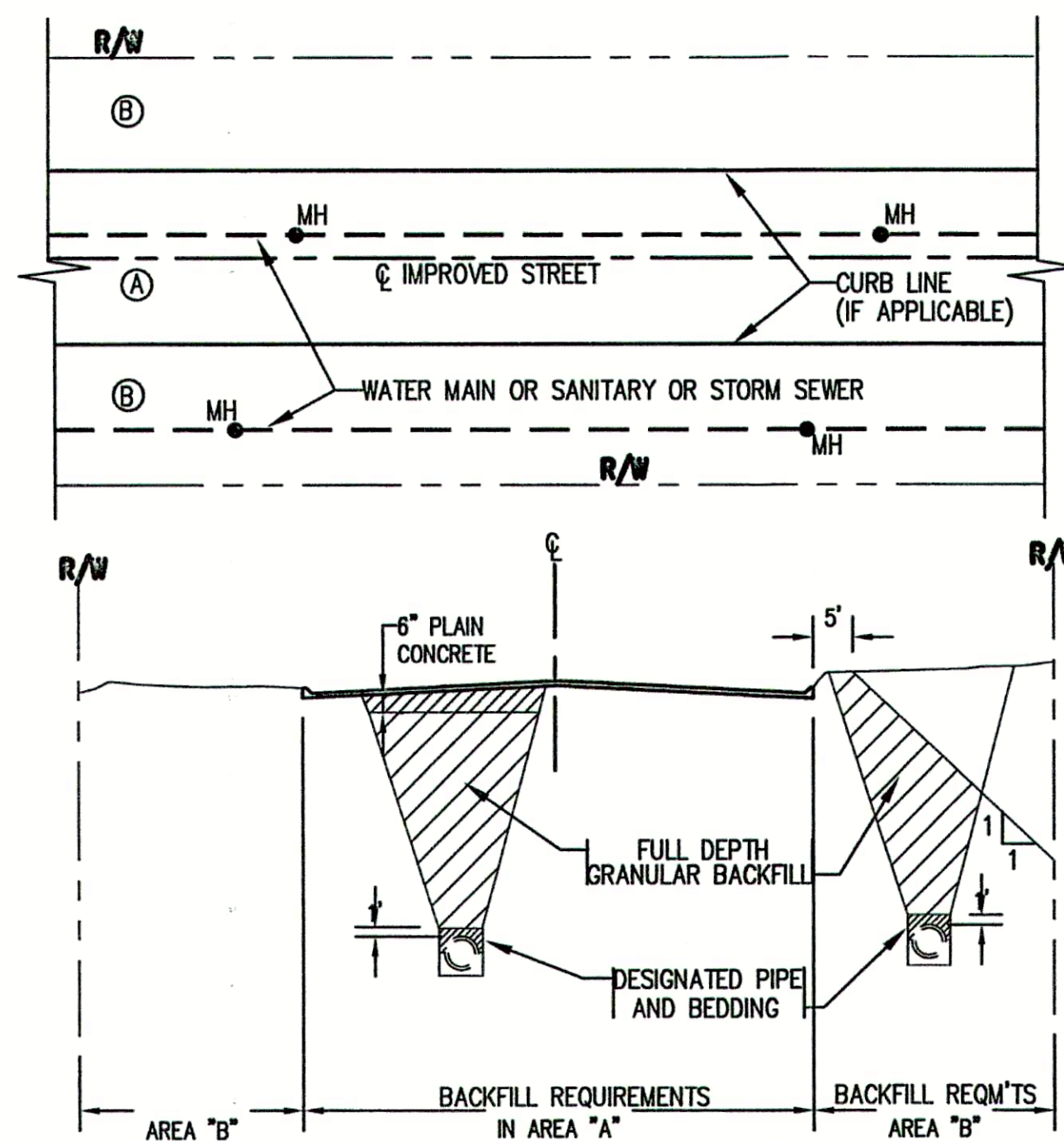
FALL CREEK REGIONAL WASTE DISTRICT
SANITARY SEWER ADDITIONAL
CONNECTIONS AND SERVICE CONNECTIONS

SHEET TITLE:
LIFT STATION DETAILS

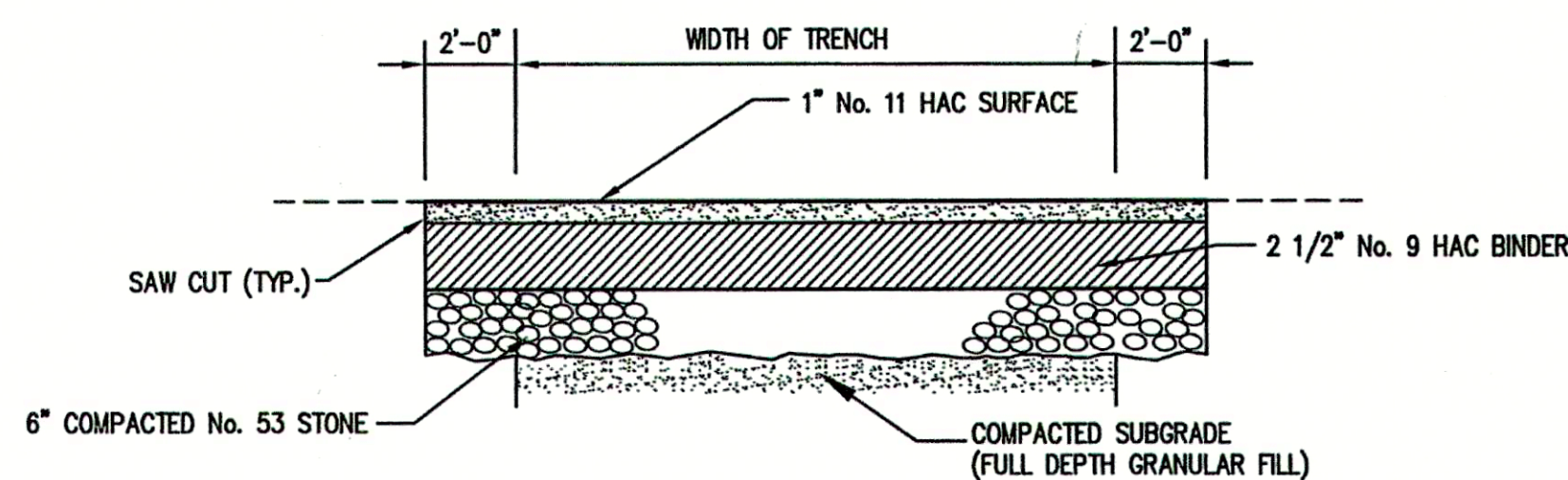
JOB NUMBER: 200402E	CHECKED BY: J.W.F.
SCALE: AS NOTED	PLOT DATE: 12/21/04
PLOT SCALE: 1" = 1'	DATE: OCT. 2004
DRAWN BY: BKY	DESIGNED BY: Michael P. Hunter, P.E.
DRAWING NAME: CAREFREE-LS-REV	

SHEET No.

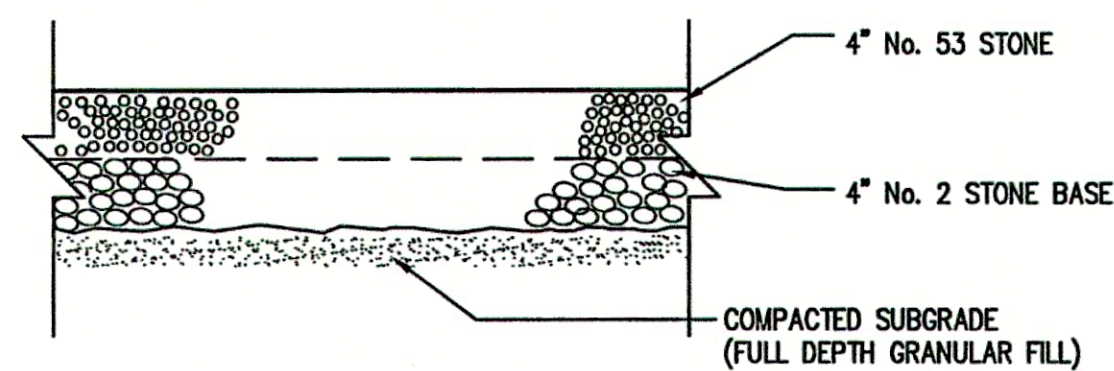
19
OF 21



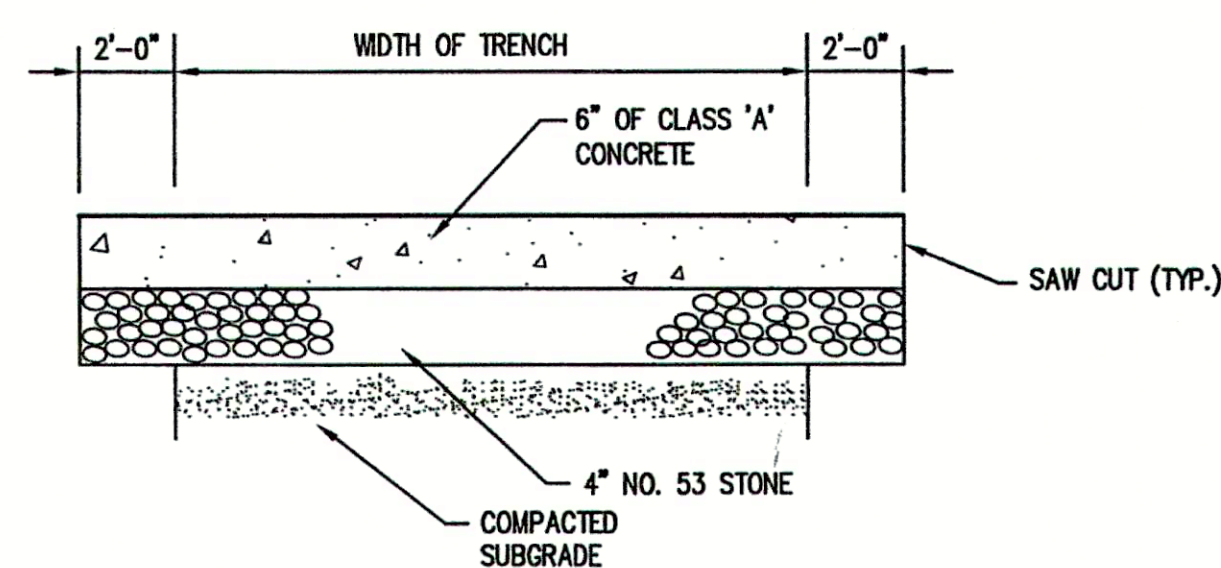
1 **BACKFILL REQUIREMENTS**
(FOR PIPELINES WITHIN RIGHT-OF-WAY FOR IMPROVED STREETS)



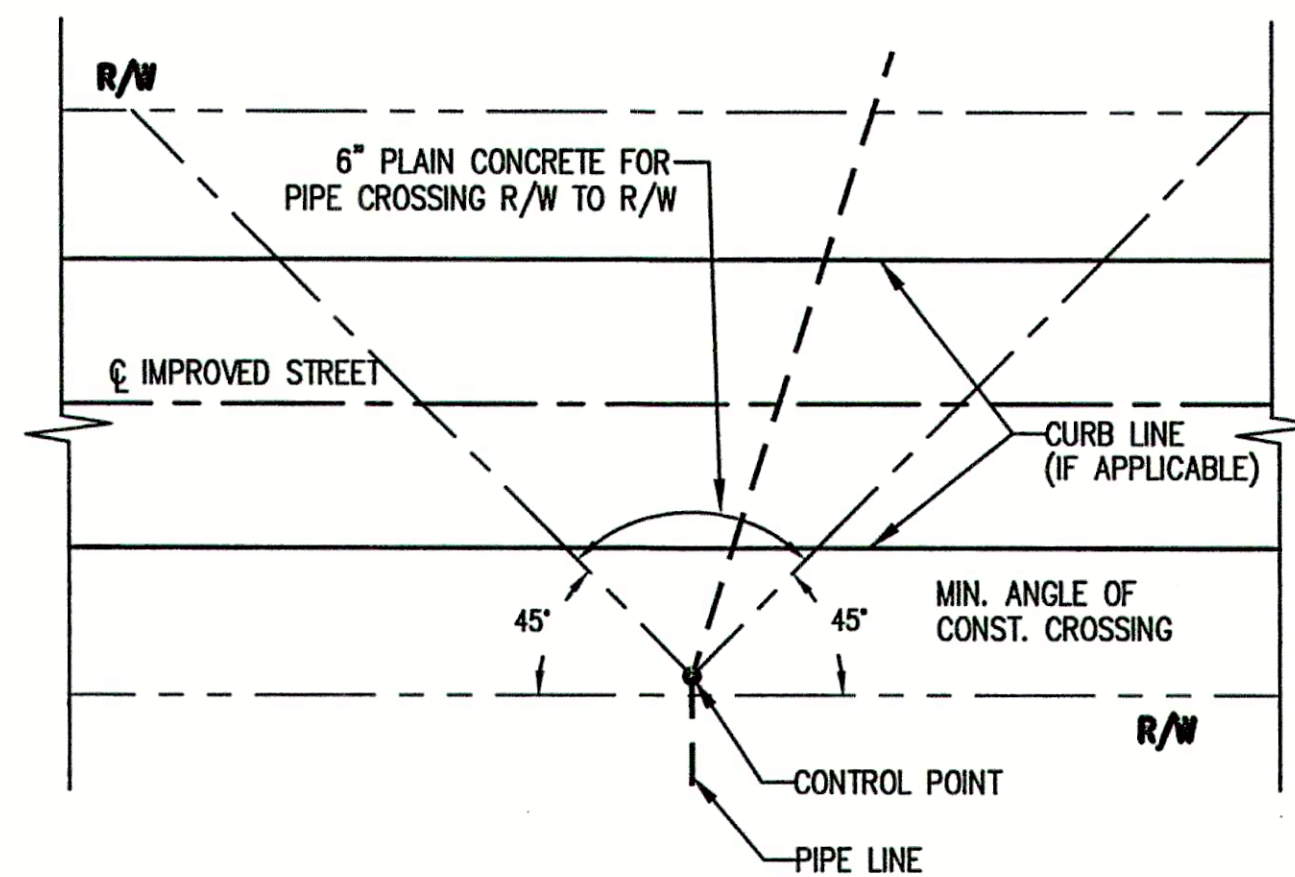
4 **ASPHALT DRIVE REPAIR DETAIL**
SCALE: N.T.S.



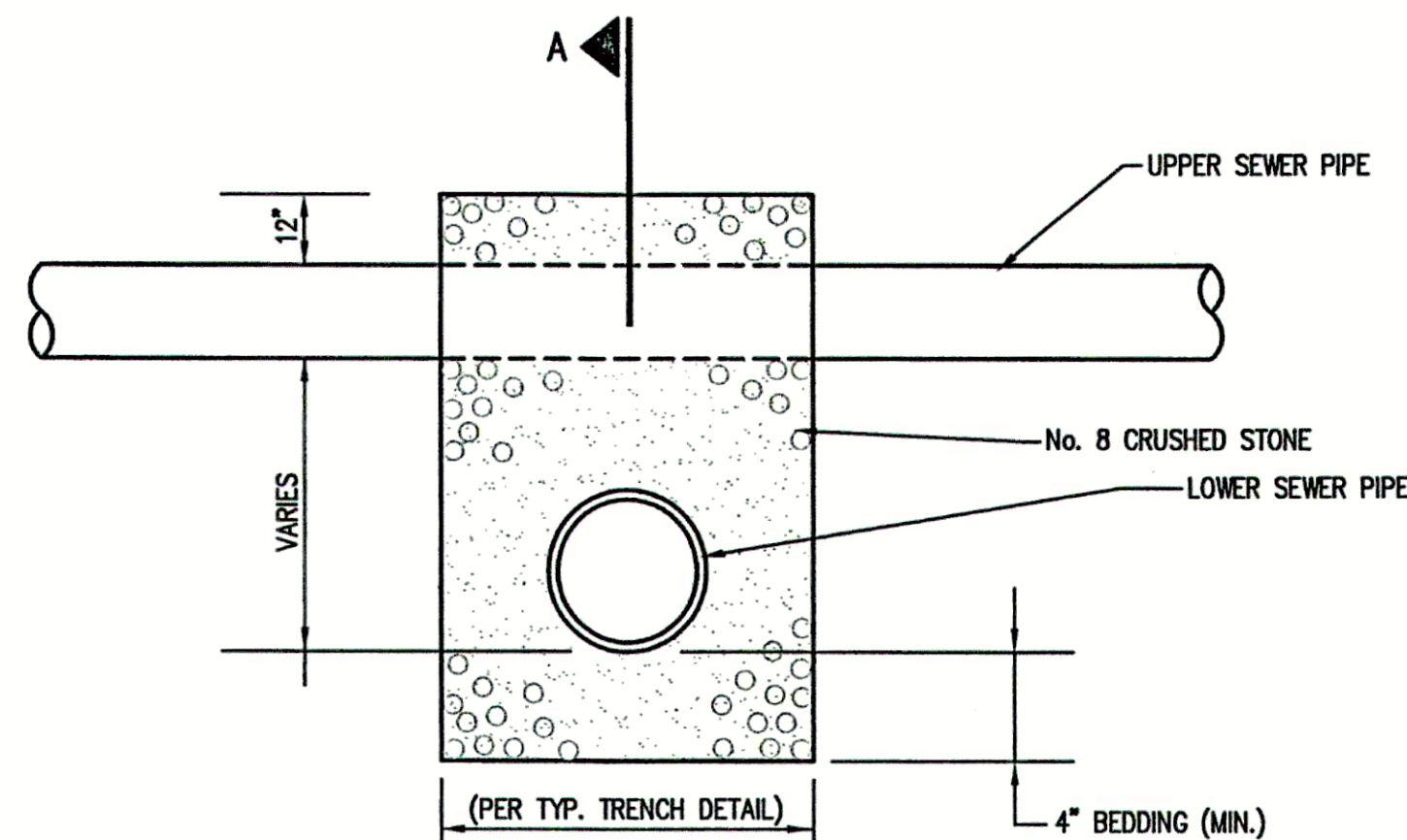
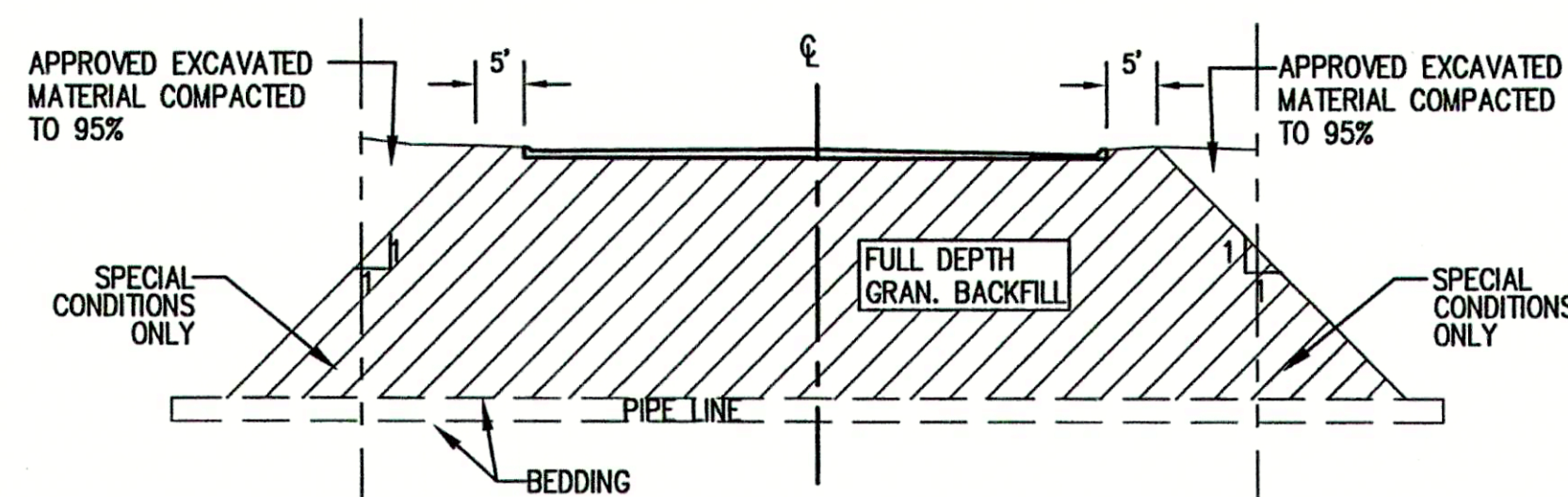
5 **STONE DRIVE REPAIR DETAIL**
SCALE: N.T.S.



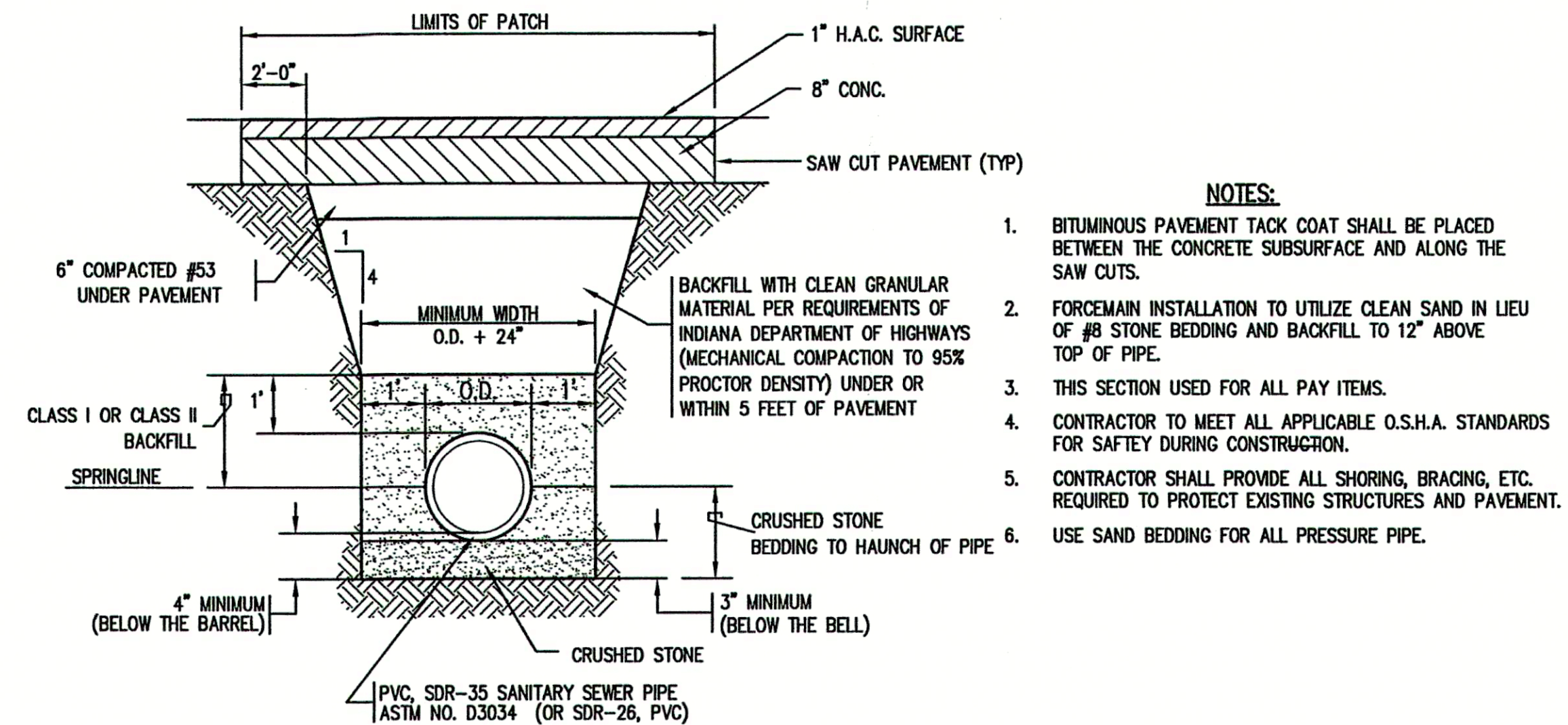
6 **CONCRETE DRIVE REPAIR DETAIL**
SCALE: N.T.S.



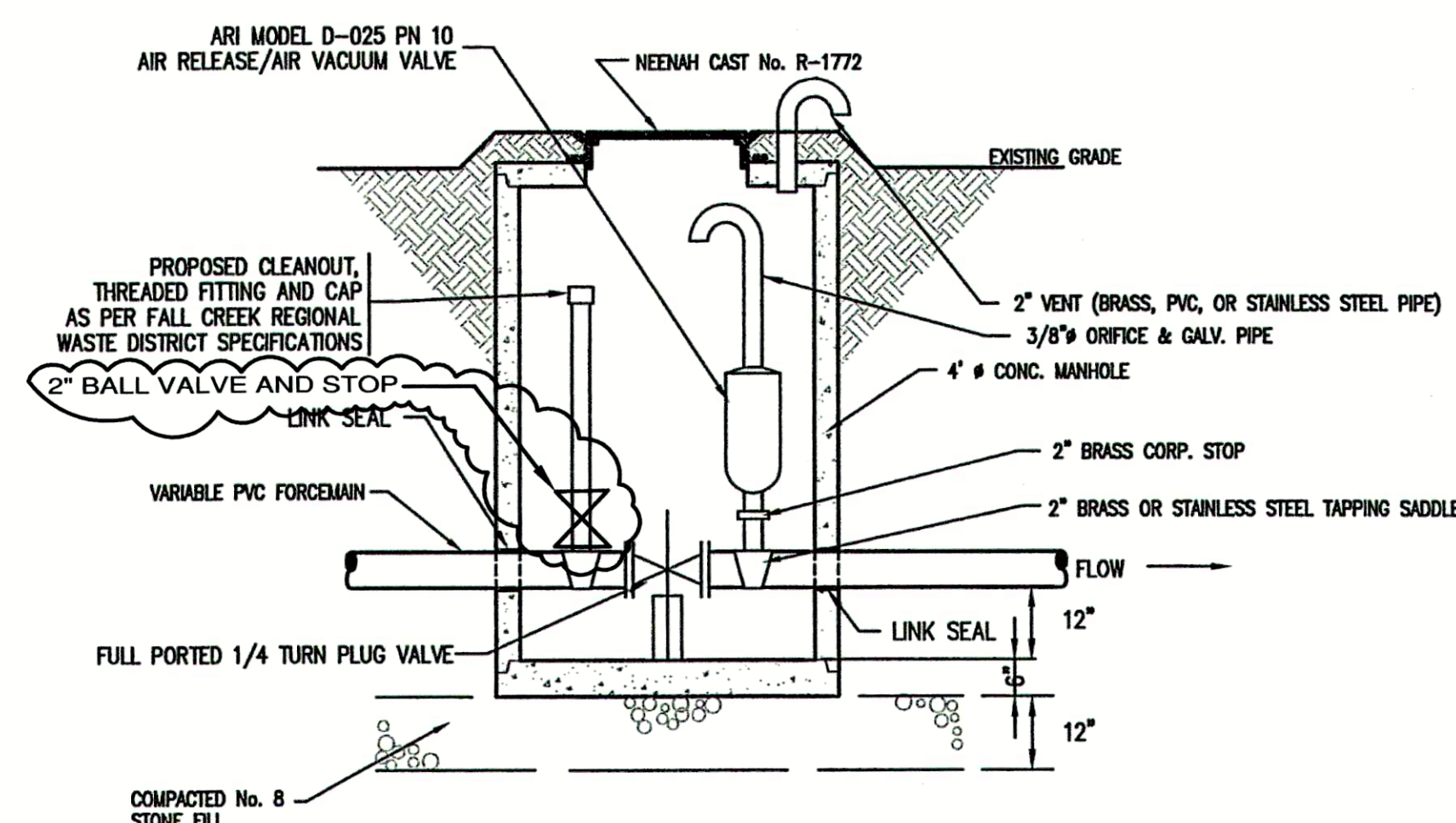
2 **BACKFILL REQUIREMENTS**
(FOR PIPELINES CROSSING RIGHT-OF-WAY FOR IMPROVED STREETS)



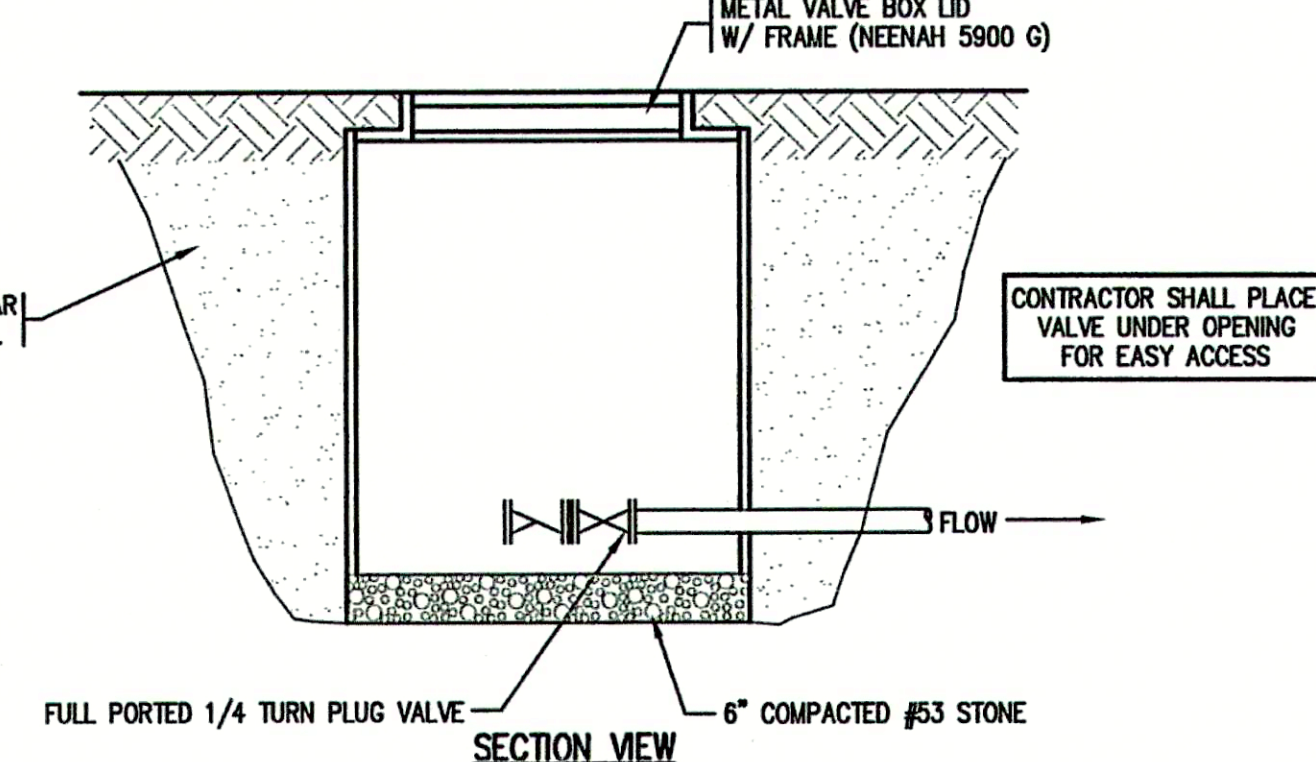
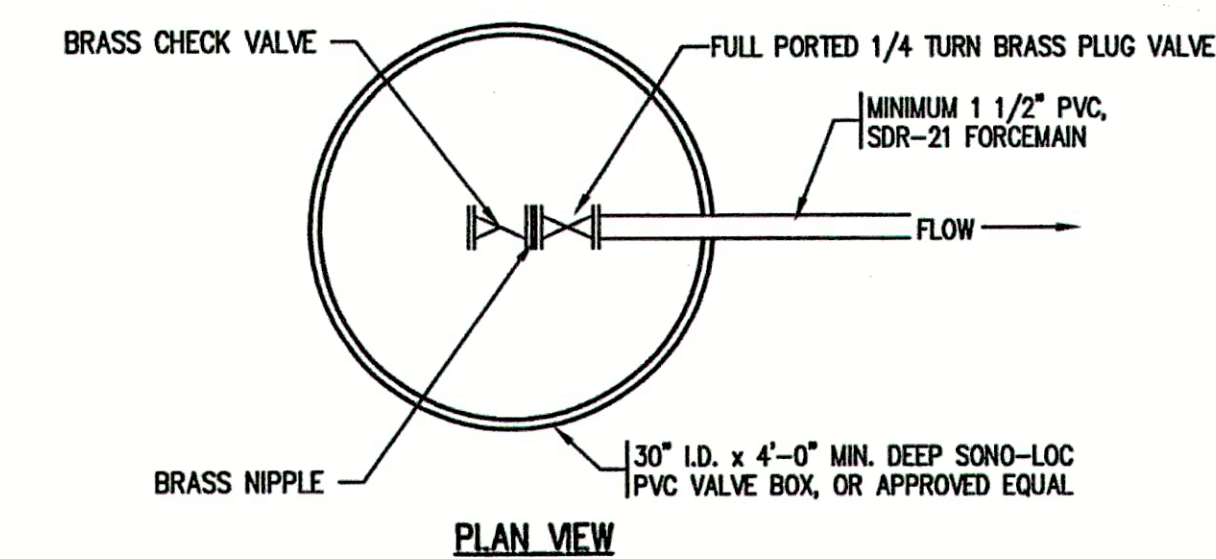
7 **STORM SEWER/SANITARY SEWER CROSSING DETAIL**
SCALE: N.T.S.



3 **TYPICAL TRENCH AND PAVEMENT PATCH DETAIL**
SCALE: N.T.S.



8 **VALVE VAULT w/ AIR / VAC RELIEF STRUCTURE**
SCALE: N.T.S.



9 **STANDARD SERVICE CONNECTION VALVE VAULT**
NOT TO SCALE

CONSULTANT:

REVISIONS:

DATE	DESCRIPTION	BY
12-8-04	REVISED PER F.C.R.W.D.	BKY
12-21-04	MISC. REVISIONS	BKY
5-18-06	RECORD DRAWINGS	CJF

APPROVED BY:



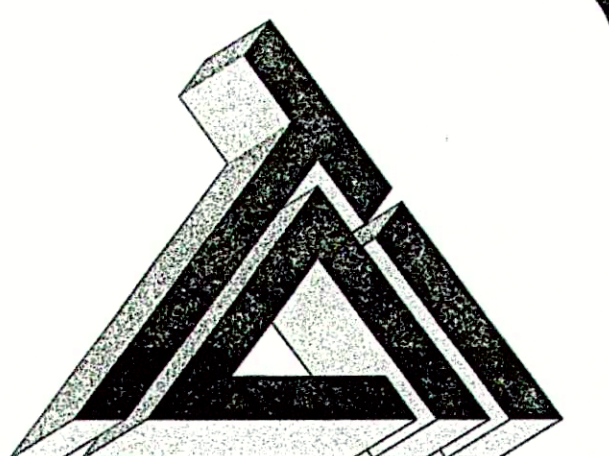
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DESIGNED FOR:

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SANITARY SEWER ADDITIONAL
CONNECTIONS AND SERVICE CONNECTIONS

SHEET TITLE:

PROPOSED MISCELLANEOUS DETAILS

JOB NUMBER: 200402E

SCALE: AS NOTED

PLOT SCALE: 1" = 1'

DRAWN BY: DAP

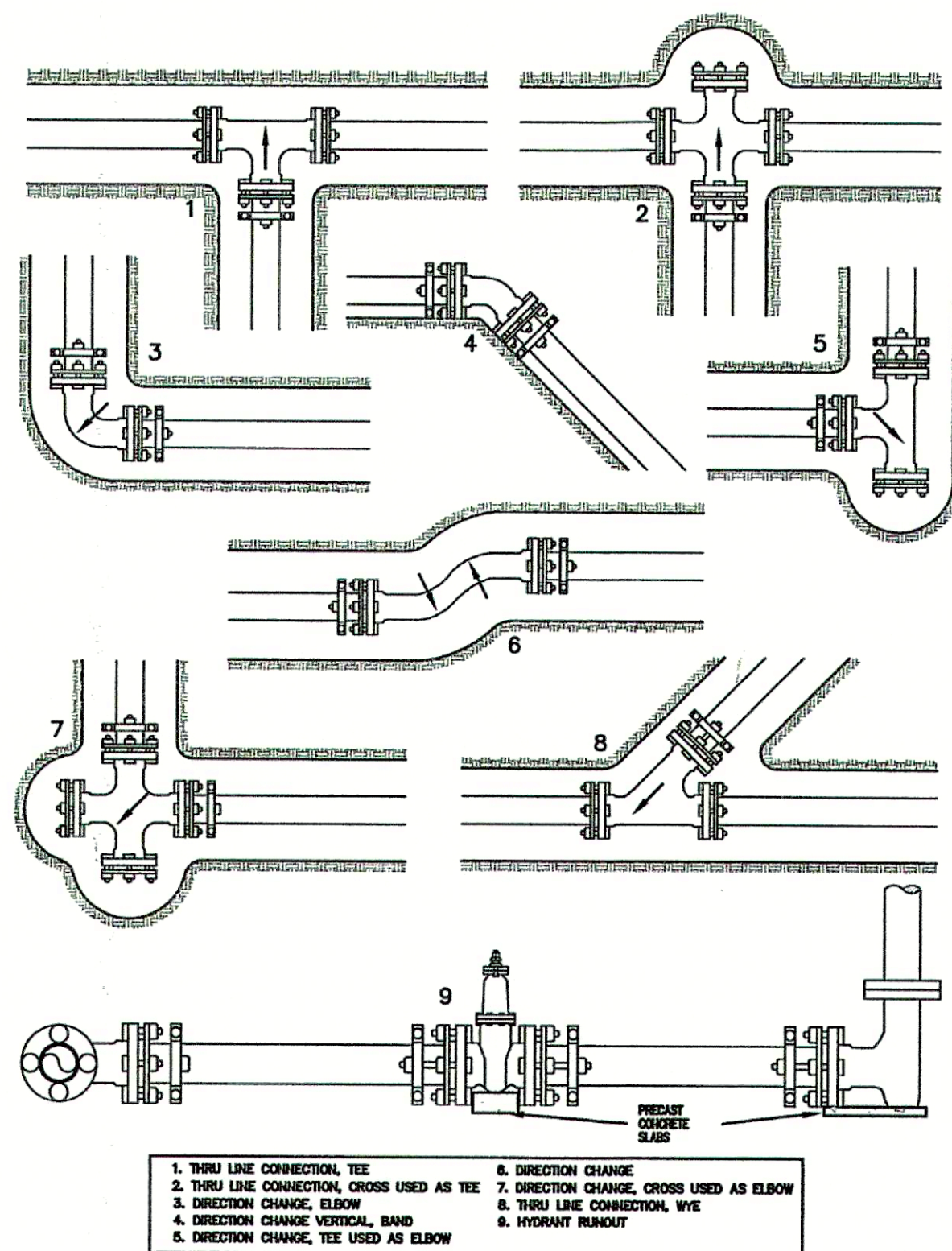
DESIGNED BY: Michael P. Hunter, P.E.

DRAWING NAME: 200402E-DET1

SHEET No.

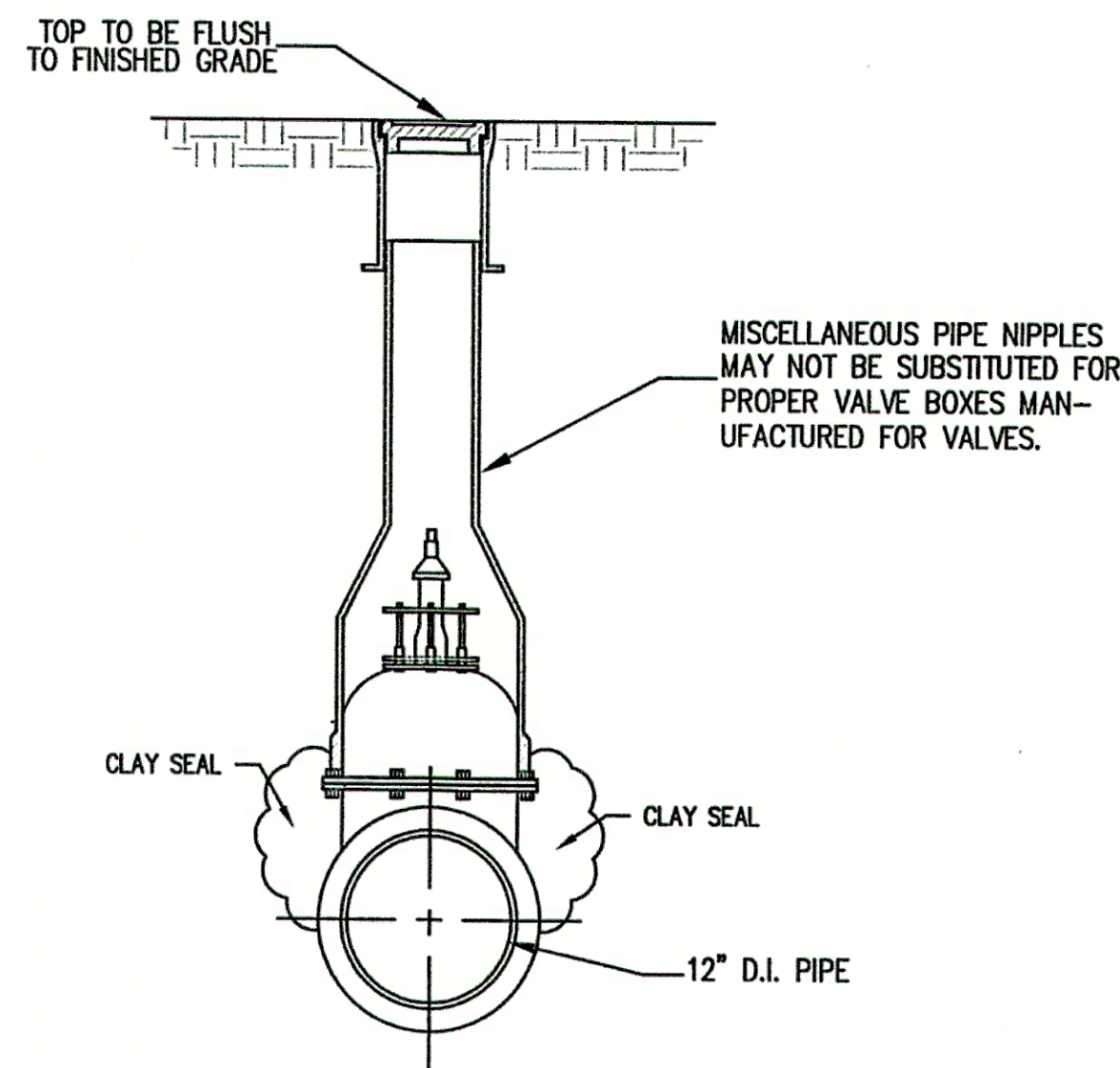
20

OF 21

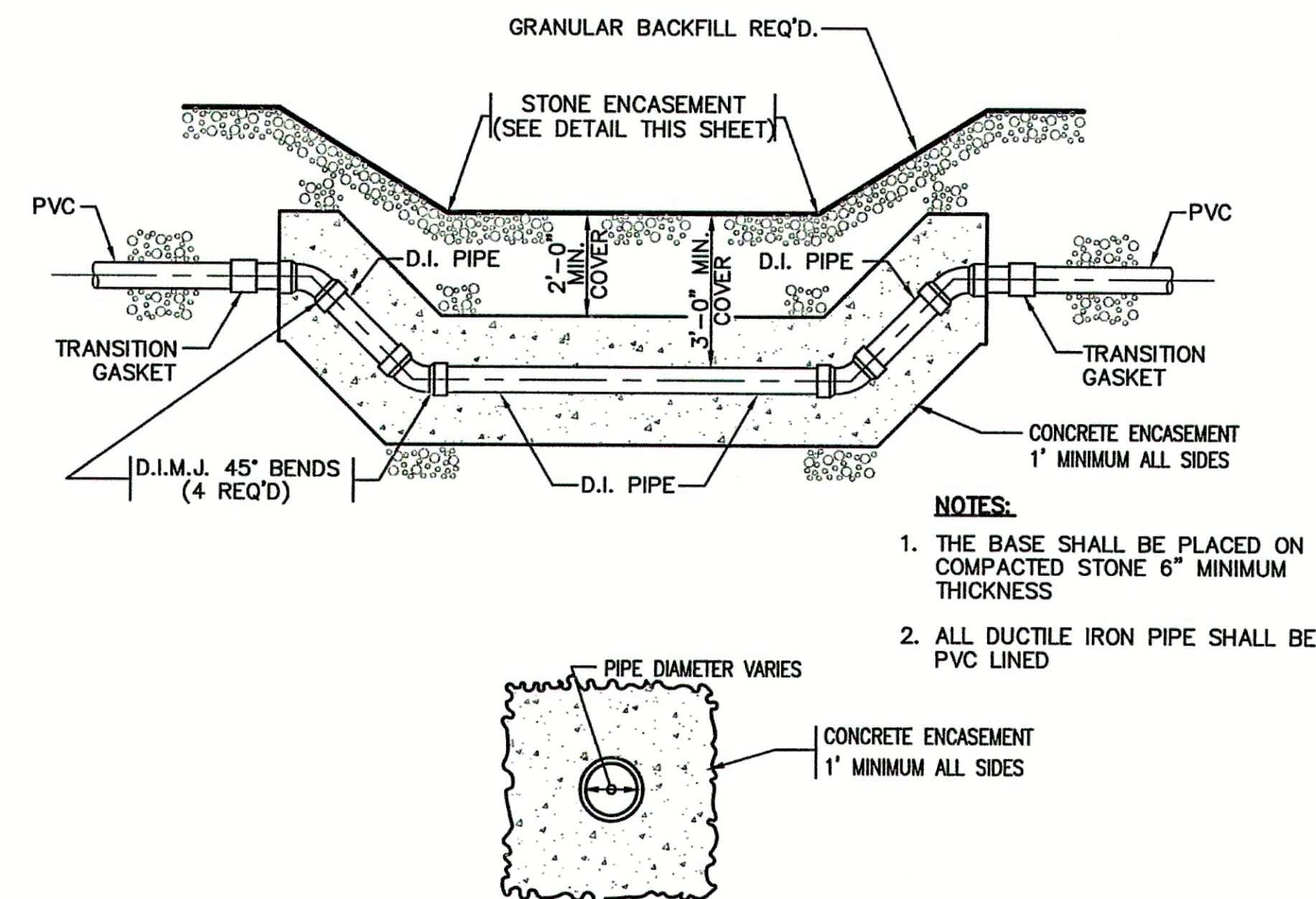


1. THRU LINE CONNECTION, TEE
2. THRU LINE CONNECTION, CROSS USED AS TEE
3. DIRECTION CHANGE, ELBOW
4. DIRECTION CHANGE VERTICAL, BEND
5. DIRECTION CHANGE, TEE USED AS ELBOW
6. DIRECTION CHANGE, CROSS USED AS ELBOW
7. DIRECTION CHANGE, CROSS USED AS TEE
8. THRU LINE CONNECTION, WYE
9. HYDRANT RUNOUT

1 TYPES OF JOINT RESTRAINING
NOT TO SCALE

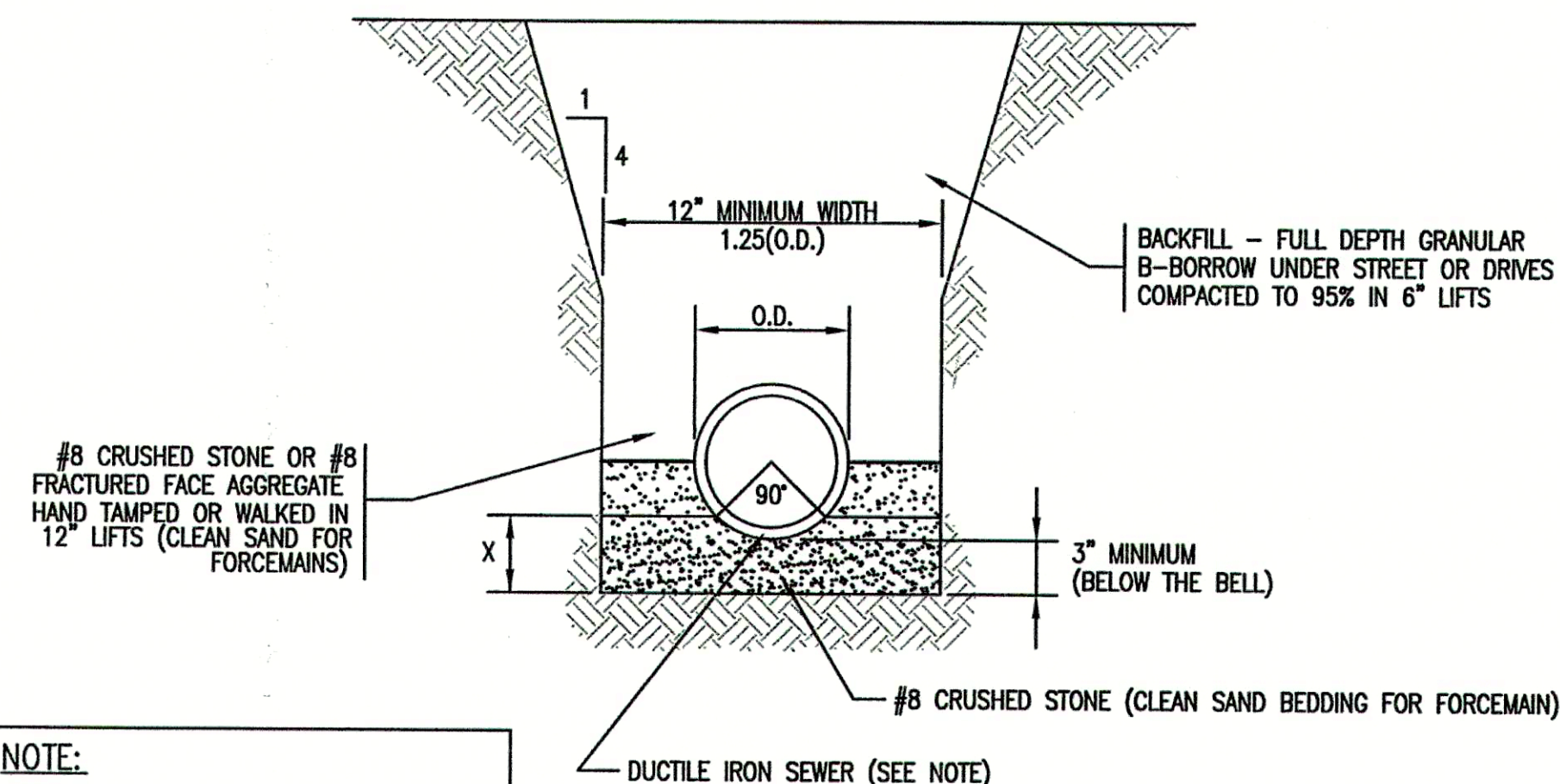


2 VALVE BOX SECTION
NOT TO SCALE



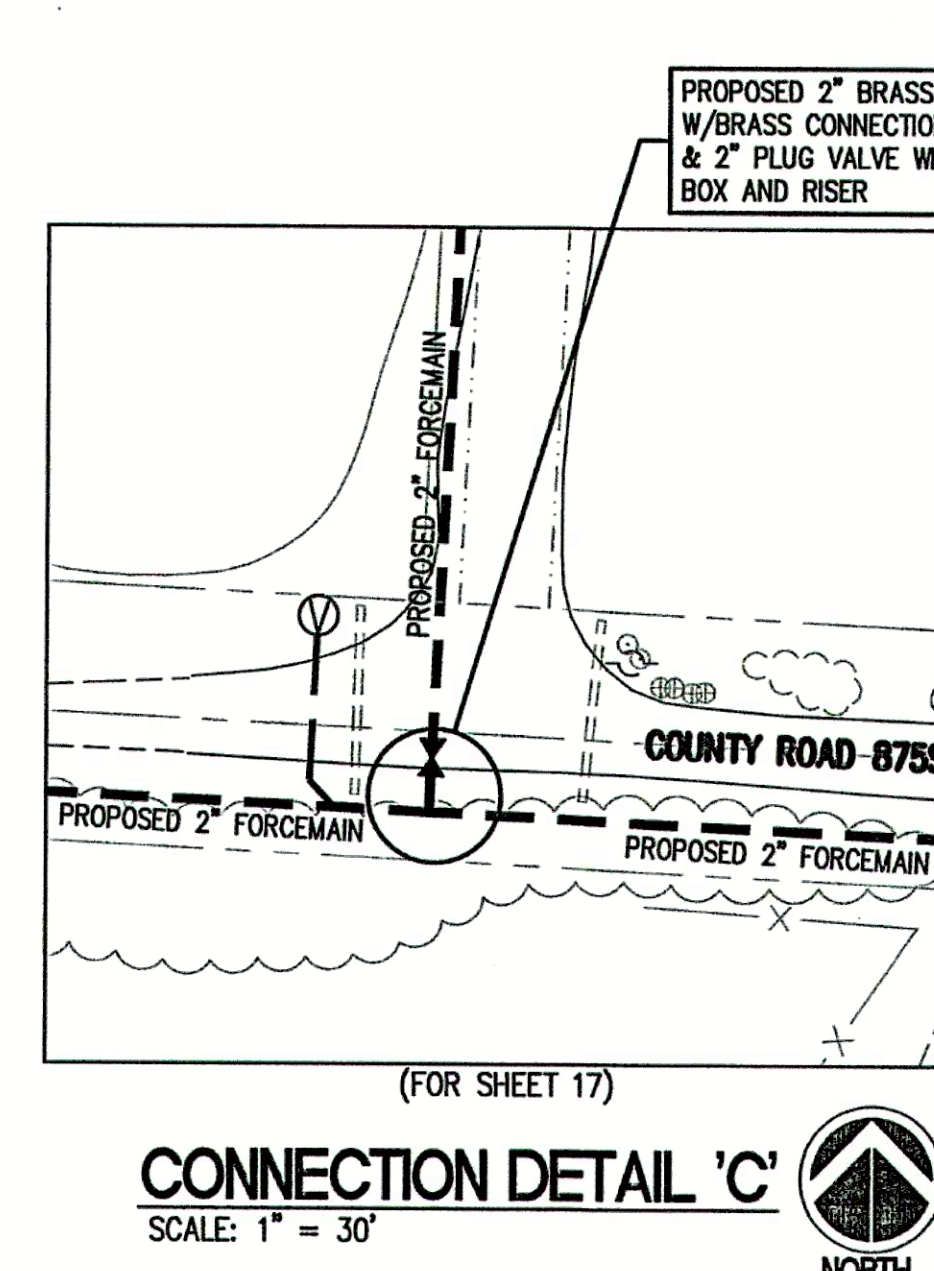
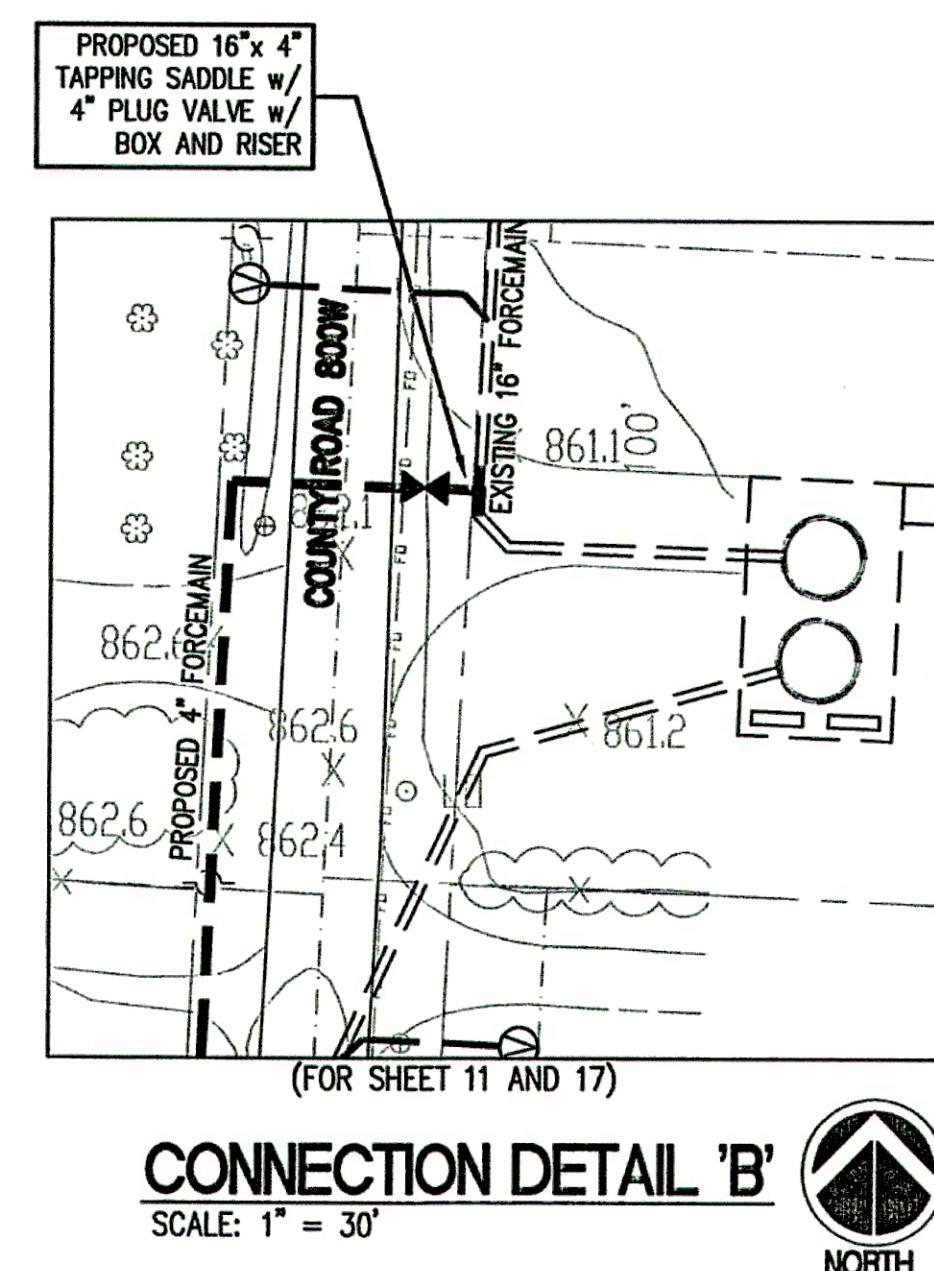
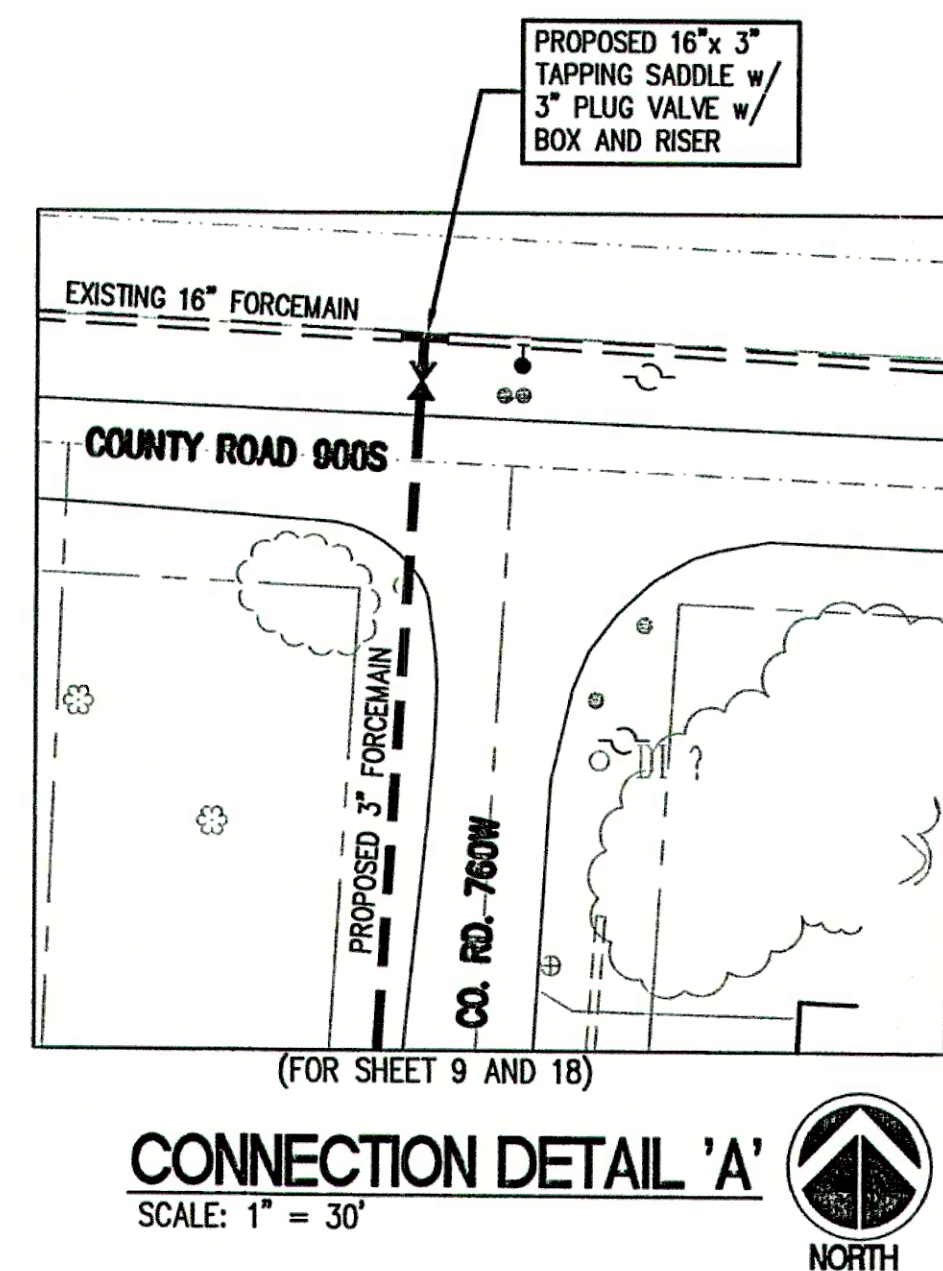
3 TYPICAL CREEK CROSSING FOR FORCEMAIN
NOT TO SCALE

PIPE SIZE	BELOW 8"	8" TO 15"	18" & OVER
BEDDING BELOW THE PIPE BARREL - "X"	O.D./8 4" MIN.	O.D./8 4" MIN.	O.D./8 4" MAX.



NOTE:
ANY PVC PIPING SHOWN ON PLANS ARE TO BE BACKFILLED WITH #8 STONE MATERIAL TO 12" ABOVE CROWN OF PIPE.

4 TYPICAL PIPE BEDDING DETAIL
NOT TO SCALE



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PROPOSED MISCELLANEOUS DETAILS

JOB NUMBER: 200402E
SCALE: AS NOTED
PLOT SCALE: 1" = 1'
DRAWN BY: DAP
DESIGNED BY: Michael P. Hunter, P.E.
DRAWING NAME: 200402E-DET2