

# SUNVIEW ADDITION, ALFONT AND REFORMATORY ROAD SANITARY SEWER PROJECT

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

1998

SRF PROJECT NO. CS 18207701

DIVISION II

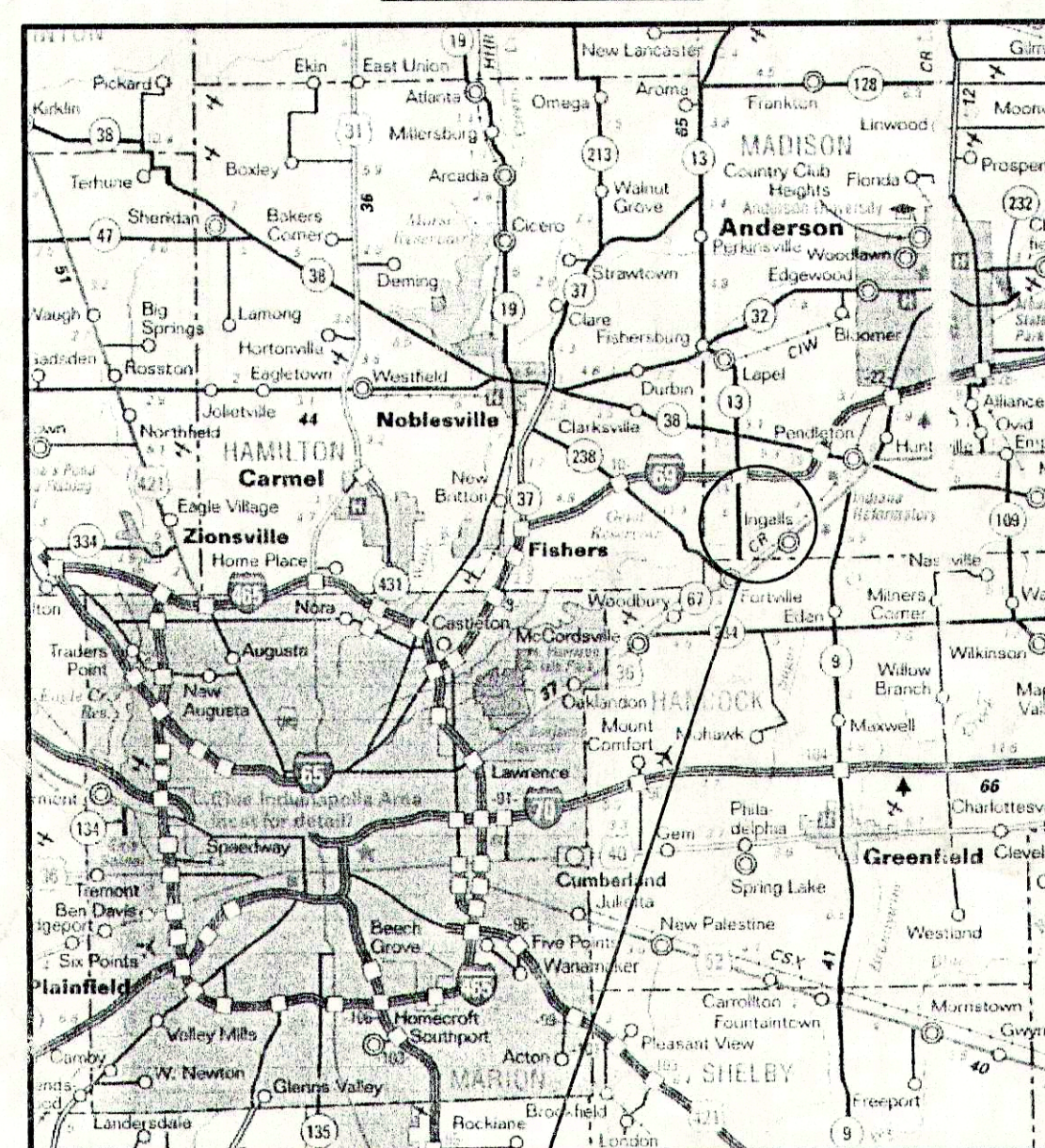
CONTRACT 'C'

JOE ROWLETT - GENERAL MANAGER

## SHEET INDEX

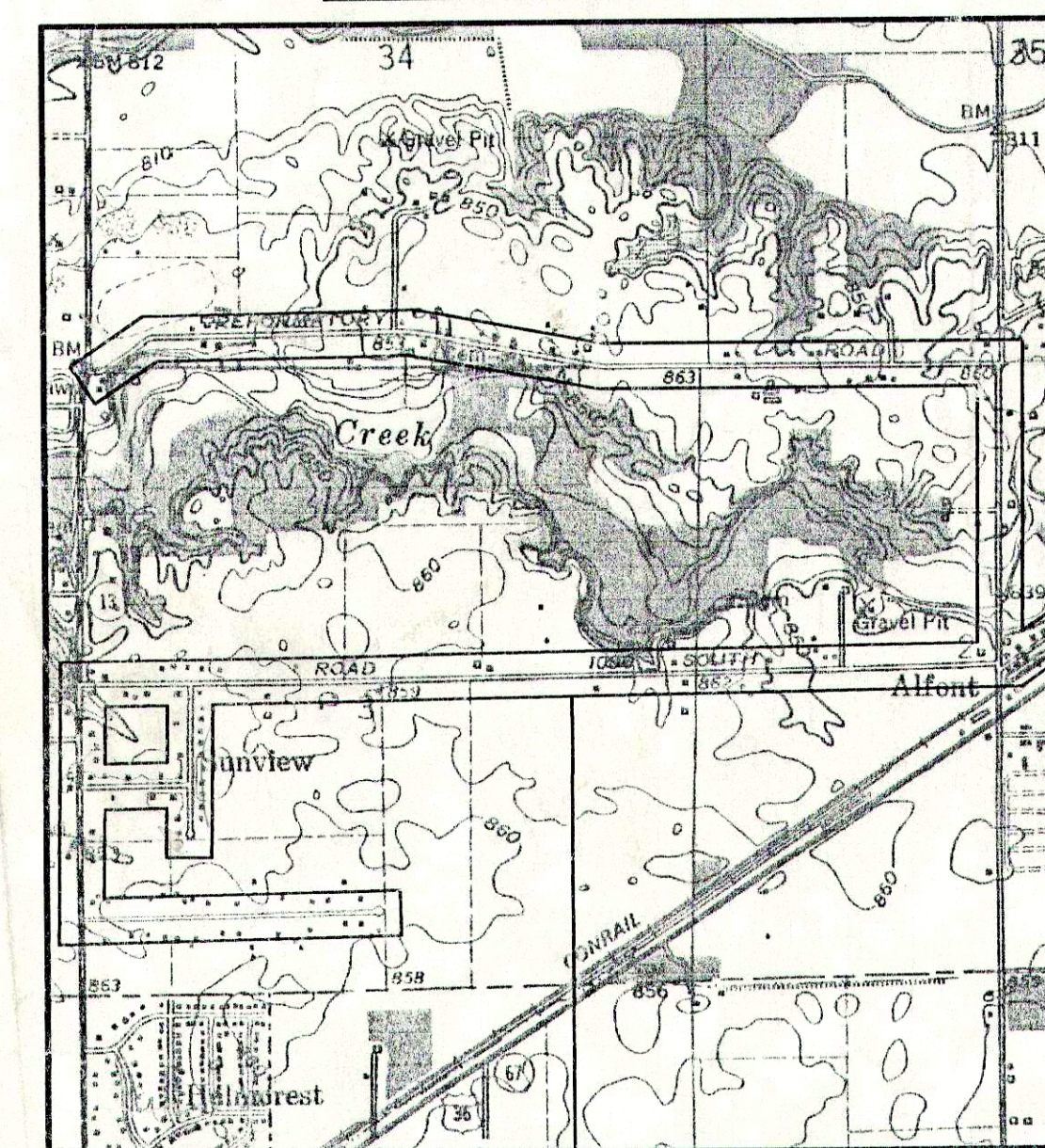
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31	WEST INGALLS LIFT STATION
32-33	STANDARD SANITARY SEWER DETAILS

AREA MAP



AREA  
LOCATION

LOCATION MAP



PROJECT  
LOCATION

## FALL CREEK REGIONAL WASTE DISTRICT BOARD

Mr. William Clark - President  
Mr. Morris McCurdy - Member  
Mr. Doug McGee - Member  
Mr. Mark Jablonski - Member  
Mr. Agon Tolbert - Member  
Mr. Dallas Foster - Member  
Mr. Jack Kasdorf - Member  
Mr. Timothy Green - Member  
Mr. John Ellingwood - Member  
Mr. Joe Rowlett - General Manager

## ATTORNEY

Mr. Randall Sorrell

## PLANS PREPARED BY:

**TRIAD**  
ASSOCIATES  
INC.  
INDIANAPOLIS, INDIANA

## THESE PLANS CERTIFIED BY:

James W. Frazell, Professional Engineer

**RECORD DRAWING**

August 23, 2001

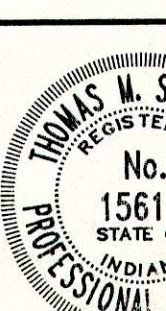
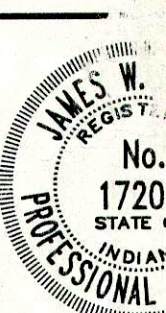
Thomas M. Schubert, Professional Engineer

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



DON'T DIG BLIND  
CALL BEFORE YOU DIG  
1-800-392-5544  
INDIANA  
1-800-428-5200

PER INDIANA STATE LAW 15-69-1991, 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



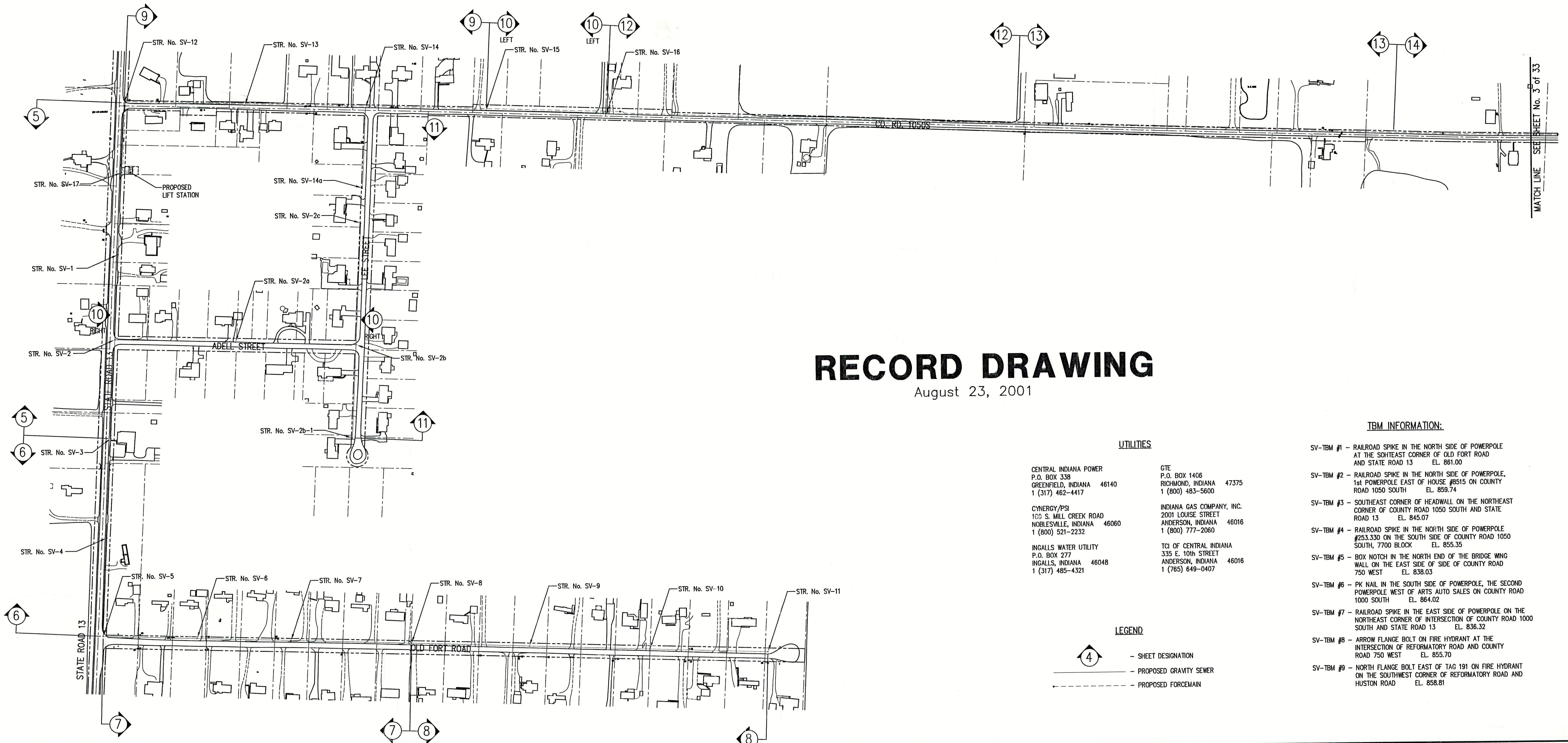


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# RECORD DRAWING

August 23, 2001

## UTILITIES

CENTRAL INDIANA POWER  
P.O. BOX 338  
GREENFIELD, INDIANA 46140  
1 (317) 462-4417

CYNERGY/PSI  
100 S. MILL CREEK ROAD  
NORLESVILLE, INDIANA 46060  
1 (800) 521-2232

INGALLS WATER UTILITY  
P.O. BOX 277  
INGALLS, INDIANA 46048  
1 (317) 485-4321

GTE  
P.O. BOX 1406  
RICHMOND, INDIANA 47375  
1 (800) 483-5600

INDIANA GAS COMPANY, INC.  
2001 LOUISE STREET  
ANDERSON, INDIANA 46016  
1 (800) 777-2060

TOI OF CENTRAL INDIANA  
335 E. 10th STREET  
ANDERSON, INDIANA 46016  
1 (765) 649-0407

## LEGEND

- 4 - SHEET DESIGNATION
- PROPOSED GRAVITY SEWER
- PROPOSED FORCEMAIN

## TBM INFORMATION:

- SV-TBM #1 - RAILROAD SPIKE IN THE NORTH SIDE OF POWERPOLE AT THE SOUTHEAST CORNER OF OLD FORT ROAD AND STATE ROAD 13 EL. 861.00
- SV-TBM #2 - RAILROAD SPIKE IN THE NORTH SIDE OF POWERPOLE, 1st POWERPOLE EAST OF HOUSE #8515 ON COUNTY ROAD 1050 SOUTH EL. 859.74
- SV-TBM #3 - SOUTHEAST CORNER OF HEADWALL ON THE NORTHEAST CORNER OF COUNTY ROAD 1050 SOUTH AND STATE ROAD 13 EL. 845.07
- SV-TBM #4 - RAILROAD SPIKE IN THE NORTH SIDE OF POWERPOLE #253.330 ON THE SOUTH SIDE OF COUNTY ROAD 1050 SOUTH, 7700 BLOCK EL. 855.35
- SV-TBM #5 - BOX NOTCH IN THE NORTH END OF THE BRIDGE WING WALL ON THE EAST SIDE OF SIDE OF COUNTY ROAD 750 WEST EL. 838.03
- SV-TBM #6 - PK NAIL IN THE SOUTH SIDE OF POWERPOLE, THE SECOND POWERPOLE WEST OF ARTS AUTO SALES ON COUNTY ROAD 1000 SOUTH EL. 864.02
- SV-TBM #7 - RAILROAD SPIKE IN THE EAST SIDE OF POWERPOLE ON THE NORTHEAST CORNER OF INTERSECTION OF COUNTY ROAD 1000 SOUTH AND STATE ROAD 13 EL. 836.32
- SV-TBM #8 - ARROW FLANGE BOLT ON FIRE HYDRANT AT THE INTERSECTION OF REFORMATORY ROAD AND COUNTY ROAD 750 WEST EL. 855.70
- SV-TBM #9 - NORTH FLANGE BOLT EAST OF TAG 191 ON FIRE HYDRANT ON THE SOUTHWEST CORNER OF REFORMATORY ROAD AND HUSTON ROAD EL. 858.81

AREA BASE MAP 1  
NOT TO SCALE



FILE NAME:	SUNBASE1	PLOT SCALE:	1=175	PLOT DATE:	02/15
NO.	DATE	DESCRIPTION	BY		

**TRIAD ASSOCIATES INC.**  
INDIANAPOLIS, INDIANA

APPROVED BY:  
THOMAS M. SCHUBERT  
No. 15614  
STATE OF INDIANA  
REGISTERED PROFESSIONAL ENGINEER  
Thomas M. Schubert, P.E.

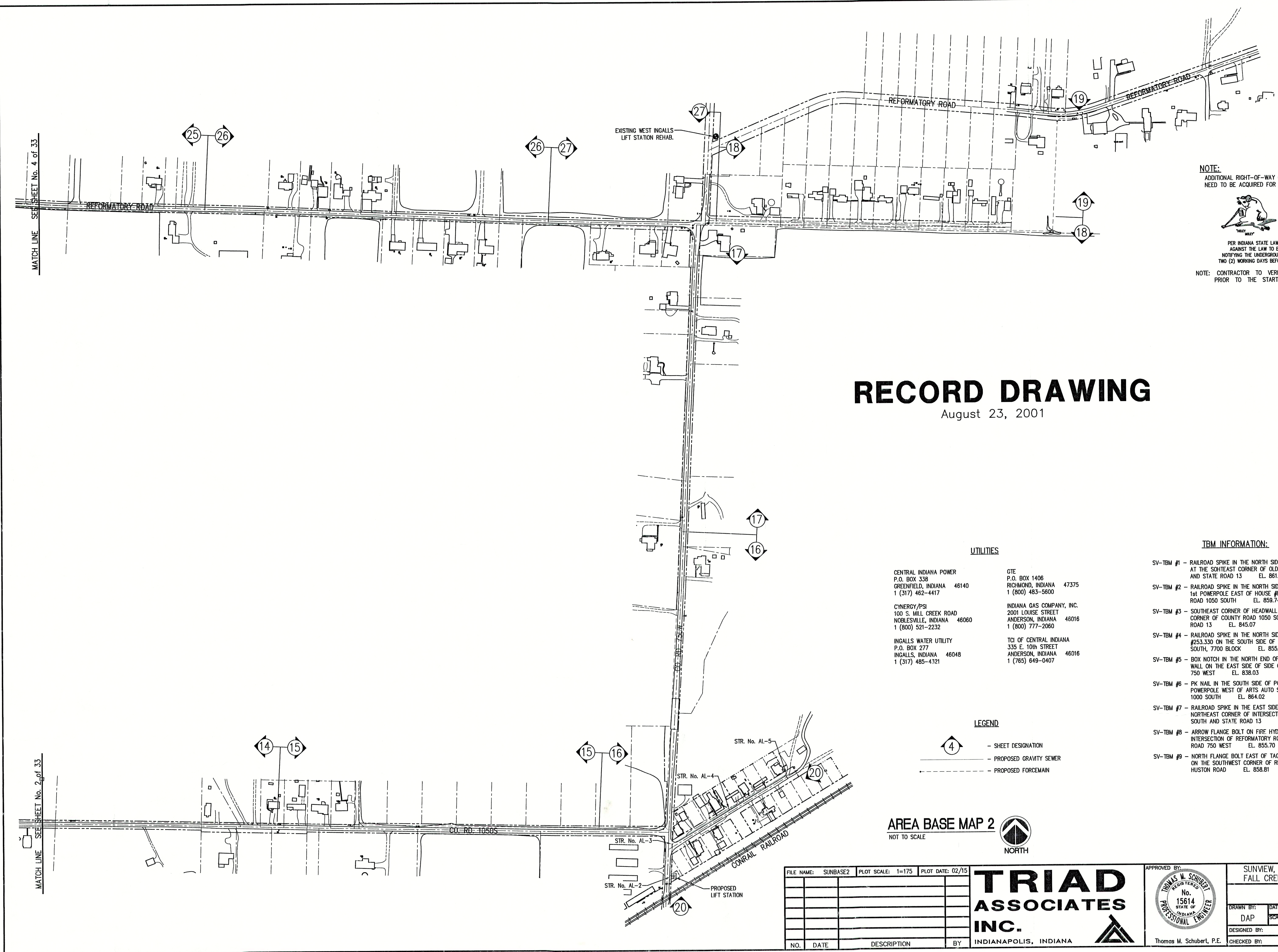
SUNVIEW, ALFONTO, REFORMATORY ROAD  
FALL CREEK REGIONAL WASTE DISTRICT

PROJECT BASE MAP

DRAWN BY:	DATE	PROJECT No.	SHEET No.
DAP	04/12/98	98008A	2
DESIGNED BY:	SCALE		
D.A. Pauling	AS NOTED		
CHECKED BY:			
James W. Frazell, P.E.			

33





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1-800-428-5200

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# RECORD DRAWING

August 23, 2001

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AREA BASE MAP 2  
NOT TO SCALE

NORTH

FILE NAME: SUNBASE2	PLOT SCALE: 1=175	PLOT DATE: 02/15
<b>TRIAD ASSOCIATES INC.</b>		
INDIANAPOLIS, INDIANA		
NO.	DATE	DESCRIPTION
BY		
APPROVED BY: THOMAS M. SCHUBERT, P.E.		
SUNVIEW, ALFONT, REFORMATORY ROAD FALL CREEK REGIONAL WASTE DISTRICT		
PROJECT BASE MAP		
DRAWN BY: DAP	DATE: 04/12/98	PROJECT No. 98008A
DESIGNED BY: D.A. Pauling	SCALE: AS NOTED	SHEET No. 3
CHECKED BY: James W. Frazell, P.E.		OF 33

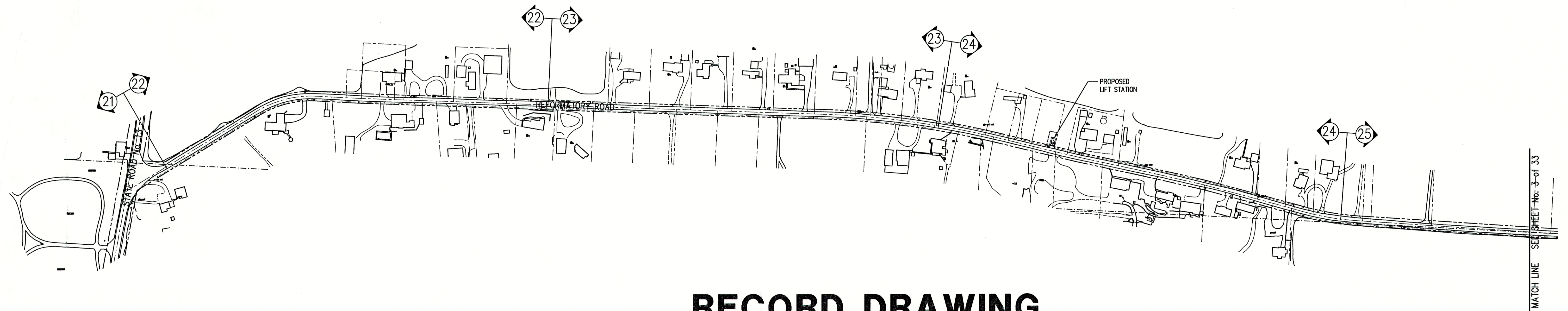


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## RECORD DRAWING

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CYNERGY/PSI 100 S. MILL CREEK ROAD NOBLESVILLE, INDIANA 46060 1 (800) 521-2232	INDIANA GAS COMPANY, INC. 2001 LOUISE STREET ANDERSON, INDIANA 46016 1 (800) 777-2060
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### LEGEND

- 4 - SHEET DESIGNATION
- PROPOSED GRAVITY SEWER
- PROPOSED FORCEMAIN

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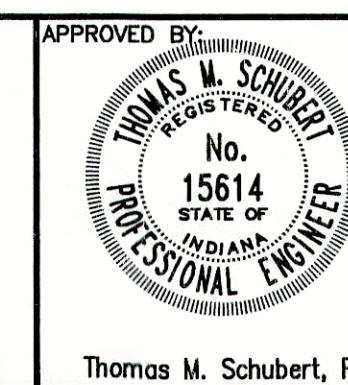
AREA BASE MAP 3  
NOT TO SCALE



FILE NAME: SUNBASE3		PLOT SCALE: 1=175		PLOT DATE: 11/2	
NO.	DATE	DESCRIPTION			BY

**TRIAD**  
**ASSOCIATES**  
**INC.**

INDIANAPOLIS, INDIANA



Thomas M. Schubert, P.E.

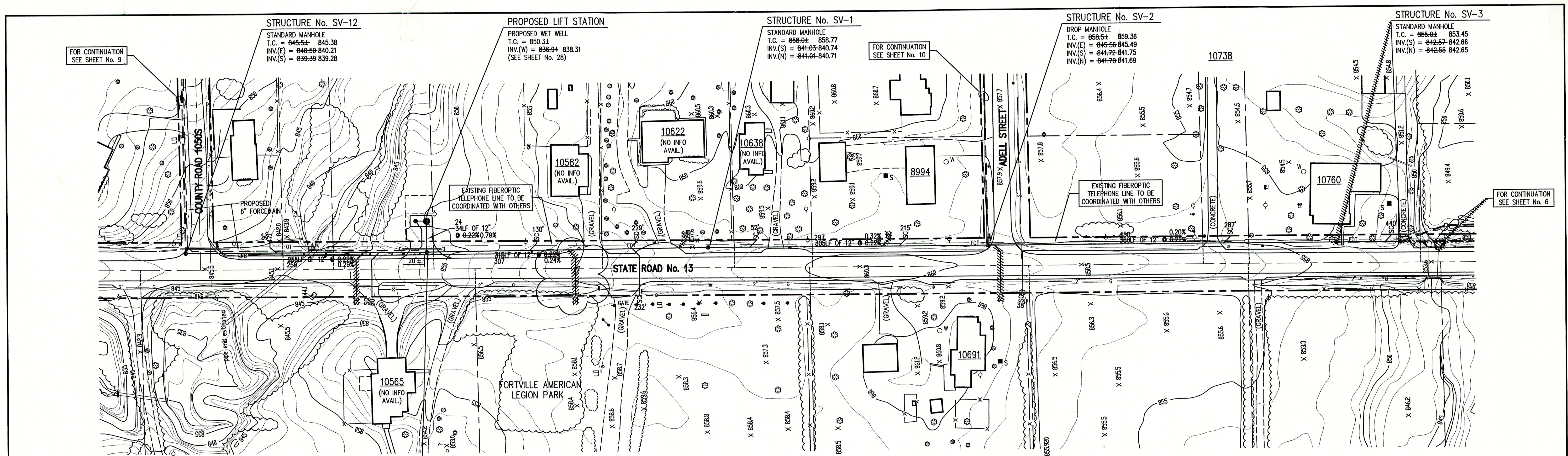
SUNVIEW, ALFONT, REFORMATORY ROAD  
FALL CREEK REGIONAL WASTE DISTRICT

PROJECT BASE MAP

DRAWN BY:	DATE	04/12/98	PROJECT No.	98008A	SHEET No.	4
DAP	SCALE	AS NOTED	DESIGNED BY:	D.A. Pauling	CHECKED BY:	James W. Frazell, P.E.

33





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OR  
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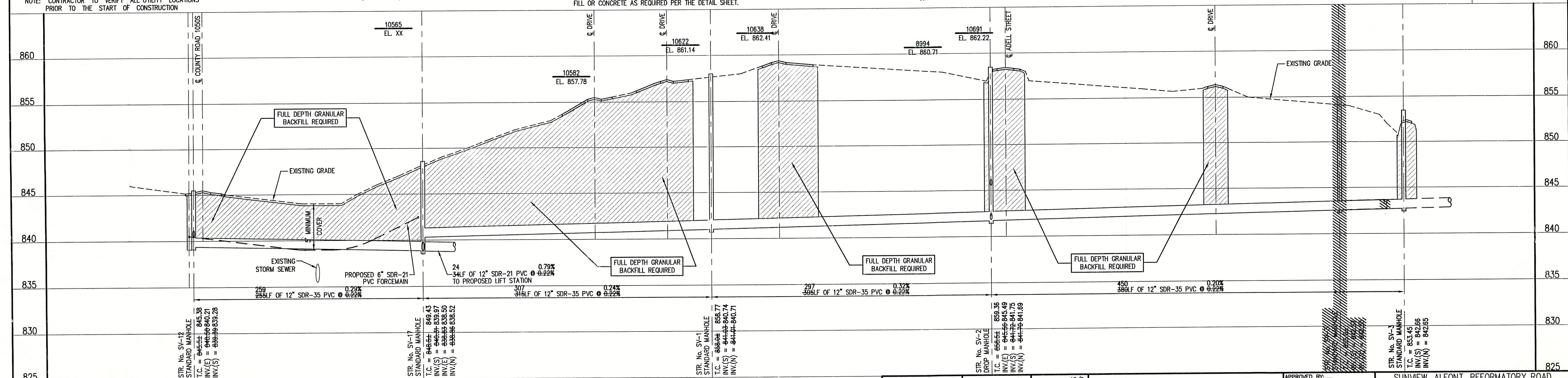
**NOTE:** CONTRACTOR TO VERIFY ALL UTILITY LOCATIONS  
PRIOR TO THE START OF CONSTRUCTION

# **LEGEND:**

TREE	1085	CONTOUR	---	UNDERGROUND ELECTRIC LINE
POWER POLE	X	FENCE	---	UNDERGROUND TELEPHONE LINE
GUY WIRE	WH	EXIST. SANITARY SEWER w/ MANHOLE	---	APPROX. RIGHT-OF-WAY
FIRE HYDRANT	SC	NEW SANITARY SEWER w/ MANHOLE	---	APPROX. CORPORATE LIMITS
MAILBOX	SC	NEW SANITARY SERVICE CONNECTION	---	APPROX. PROPERTY LINE
FLAGPOLE	4" W	WATER LINE	---	EXISTING WATER WELL
SPOT SHOT	2" G	GAS LINE	---	EXISTING SEPTIC TANK



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



## **RECORD DRAWING**

August 23, 2001

### **NOTE:**

THE CONTRACTOR SHALL INCLUDE IN THE COSTS FOR SANITARY PIPE,  
ALL WATER SERVICE RECONNECTIONS, STORM SEWER RECONNECTION,  
WATER MAIN RELOCATIONS, CONCRETE RECONSTRUCTION, AND  
SIDEWALK RECONSTRUCTION AS REQUIRED TO INSTALL NEW WORK  
AS SHOWN ON THE DRAWINGS.

FILE NAME: SUN_2REV-RD		PLOT SCALE: 1=50	PLOT DATE: 12/5
NO.	DATE	DESCRIPTION	BY

**TRIAD ASSOCIATES INC.**  
INDIANAPOLIS, INDIANA

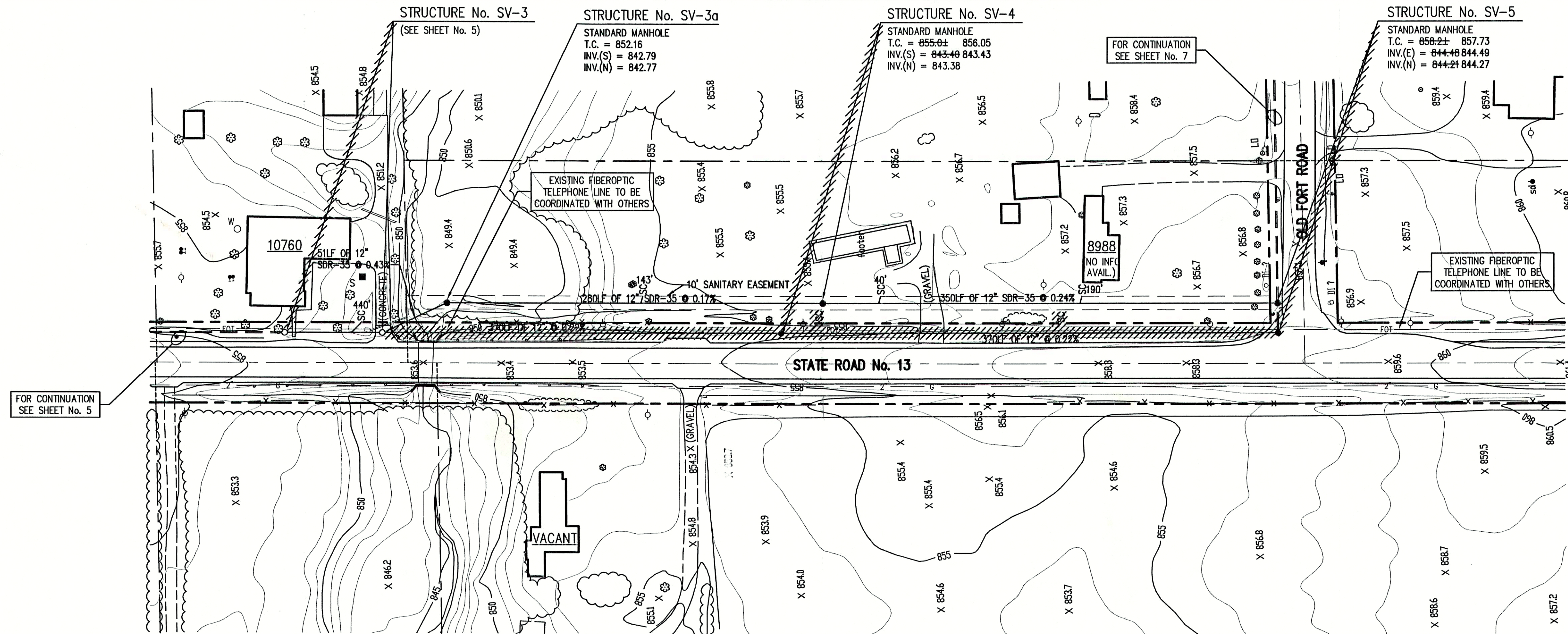
APPROVED BY:  
**THOMAS M. SCHUBERT**  
REGISTERED PROFESSIONAL ENGINEER  
No. 15614  
STATE OF INDIANA

SUNVIEW, ALFONT, REFORMATORY ROAD  
FALL CREEK REGIONAL WASTE DISTRICT

**PLAN AND PROFILE**

DRAWN BY: DAP  
DATE: 04/12/98  
SCALE: AS NOTED  
PROJECT No. 98008A  
SHEET No. 5  
DESIGNED BY: D.A. Pauling  
CHECKED BY: James W. Frazell, P.E.





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#### GENERAL NOTES:

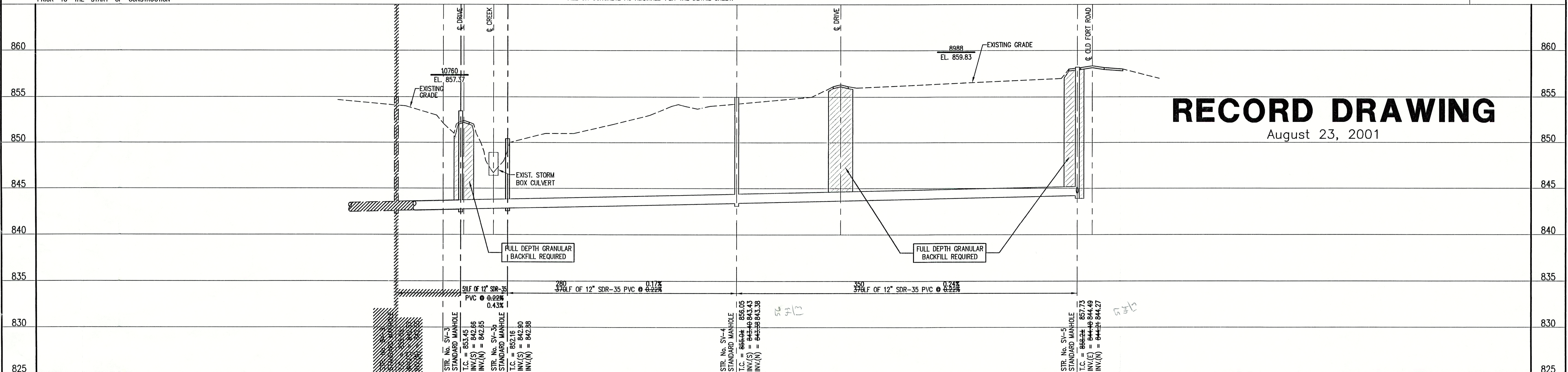
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- CONTRACTOR SHALL MAINTAIN A MINIMUM 10'-0" HORIZONTAL AND 18" VERTICAL SEPARATION BETWEEN SEWER AND WATER MAINS.
- ALL PROPOSED TOP OF CASTING ELEVATIONS ARE APPROXIMATE. THE CONTRACTOR SHALL ADJUST FINAL ELEVATIONS AS REQUIRED TO BE FLUSH WITH PAVEMENT.
- ALL SEWER TRENCHES SHALL BE BACKFILLED WITH FULL DEPTH COMPACTED GRANULAR BACKFILL ("B" BORROW) UNDER OR WITHIN 5' OF EDGE OF PAVEMENT.
- THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID TO BECOME FAMILIAR WITH ALL SITE CONDITIONS.
- THE CONTRACTOR SHALL PROVIDE THE REQUIRED MEANS FOR MAINTAINING SAFE TRAFFIC AT ALL TIMES.
- CONTRACTOR SHALL RESTORE ALL DISTURBED LAWN AREAS, STREETS, WALKS, DRIVES, ETC. AS SHOWN ON DRAWINGS, IN THE SPECIFICATIONS, OR TO AT LEAST PRE-EXISTING CONDITIONS.
- ALL UTILITY CROSSINGS SHALL BE PROTECTED AND SUPPORTED WITH GRANULAR FILL OR CONCRETE AS REQUIRED PER THE DETAIL SHEET.

#### LEGEND:

TREE	1085	CONTOUR	— E —	UNDERGROUND ELECTRIC LINE
POWER POLE	X	FENCE	— T —	UNDERGROUND TELEPHONE LINE
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FIRE HYDRANT	SC	NEW SANITARY SEWER w/ MANHOLE	—	APPROX. CORPORATE LIMITS
MAILBOX	—	NEW SANITARY SERVICE CONNECTION	—	APPROX. PROPERTY LINE
FLAGPOLE	—	WATER LINE	—	EXISTING WATER WELL
SPOT SHOT	—	GAS LINE	—	EXISTING SEPTIC TANK



**SCALE:**  
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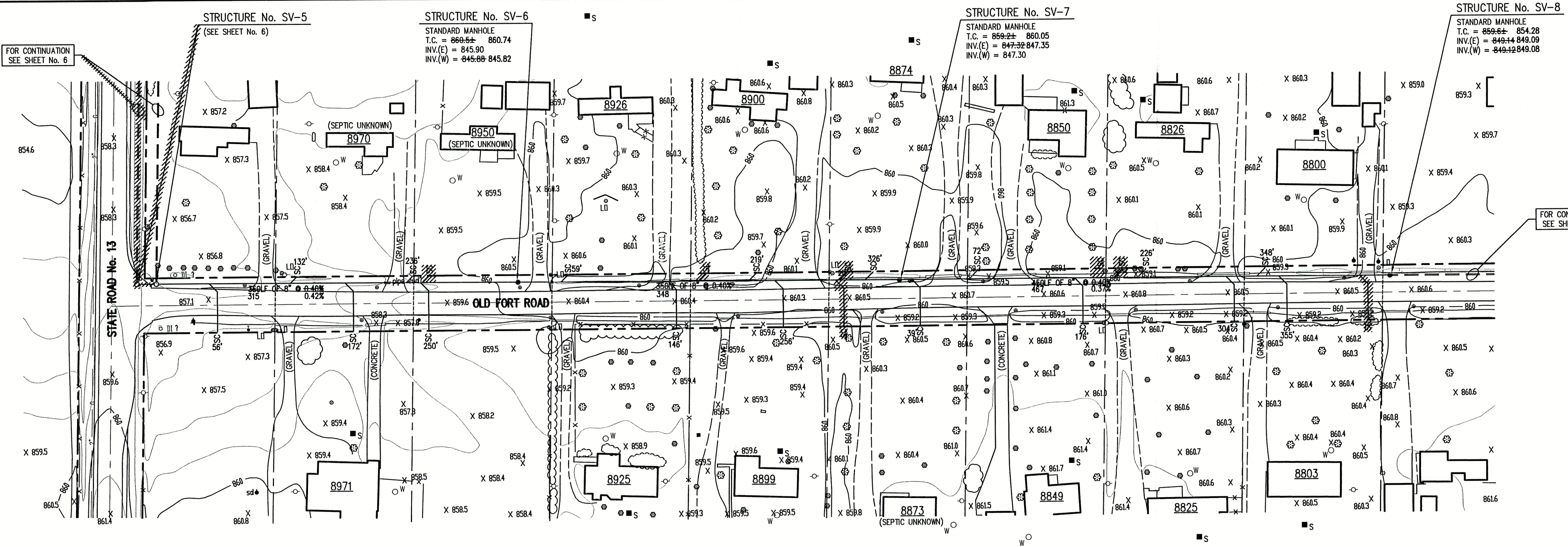
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NO.	DATE	DESCRIPTION	BY		

**TRIAD ASSOCIATES INC.**  
INDIANAPOLIS, INDIANA

APPROVED BY:  
**THOMAS M. SCHUBERT**  
No. 15614  
STATE OF INDIANA  
PROFESSIONAL ENGINEER  
Thomas M. Schubert, P.E.

SUNVIEW, ALFONT, REFORMATORY ROAD  
FALL CREEK REGIONAL WASTE DISTRICT  
PLAN AND PROFILE  
DRAWN BY: DAP  
SCALE: AS NOTED  
PROJECT No. 98008A  
SHEET No. 6  
DESIGNED BY: D.A. Pauling  
CHECKED BY: James W. Frazell, P.E.  
OF 33





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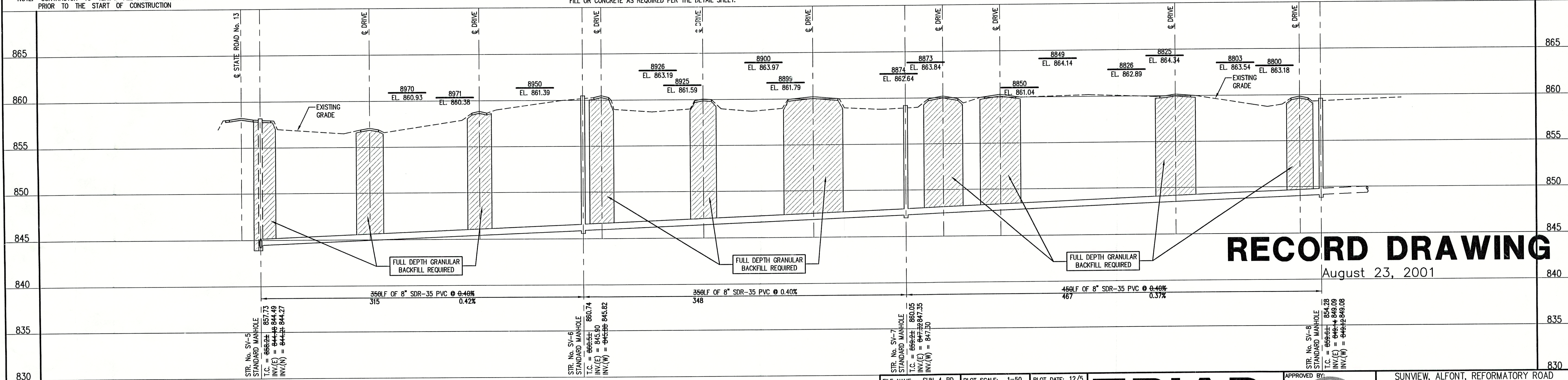
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LEGEND:

- TREE
- POWER POLE
- GUW WIRE
- FIRE HYDRANT
- MAILBOX
- FLAGPOLE
- SPOT SHOT
- CONTOUR
- FENCE
- EXIST. SANITARY SEWER w/ MANHOLE
- NEW SANITARY SEWER w/ MANHOLE
- NEW SANITARY SERVICE CONNECTION
- WATER LINE
- GAS LINE
- UNDERGROUND ELECTRIC LINE
- UNDERGROUND TELEPHONE LINE
- APPROX. RIGHT-OF-WAY
- APPROX. CORPORATE LIMITS
- APPROX. PROPERTY LINE
- EXISTING WATER WELL
- EXISTING SEPTIC TANK



SCALE:  
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August 23, 2001

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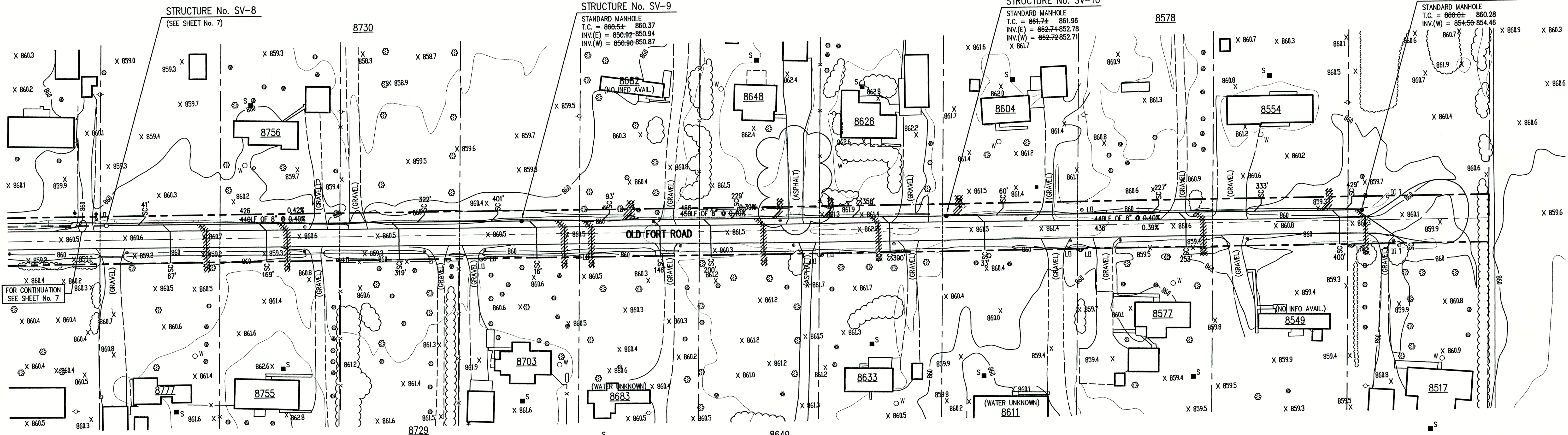
FILE NAME:	SUN_4-RD	PLOT SCALE:	1"=50'	PLOT DATE:	12/5
NO.	DATE	DESCRIPTION	BY		

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INDIANAPOLIS, INDIANA

APPROVED BY:  
THOMAS M. SCHUBERT  
No. 15614  
STATE OF INDIANA  
PROFESSIONAL ENGINEER

SUNVIEW, ALFONT, REFORMATORY ROAD FALL CREEK REGIONAL WASTE DISTRICT			
PLAN AND PROFILE			
DRAWN BY:	DATE	PROJECT No.	SHEET No.
DAP	04/12/98	98008A	7
DESIGNED BY:	D.A. Pauling		
CHECKED BY:	James W. Frazell, P.E.		





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 15-69-1991, 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

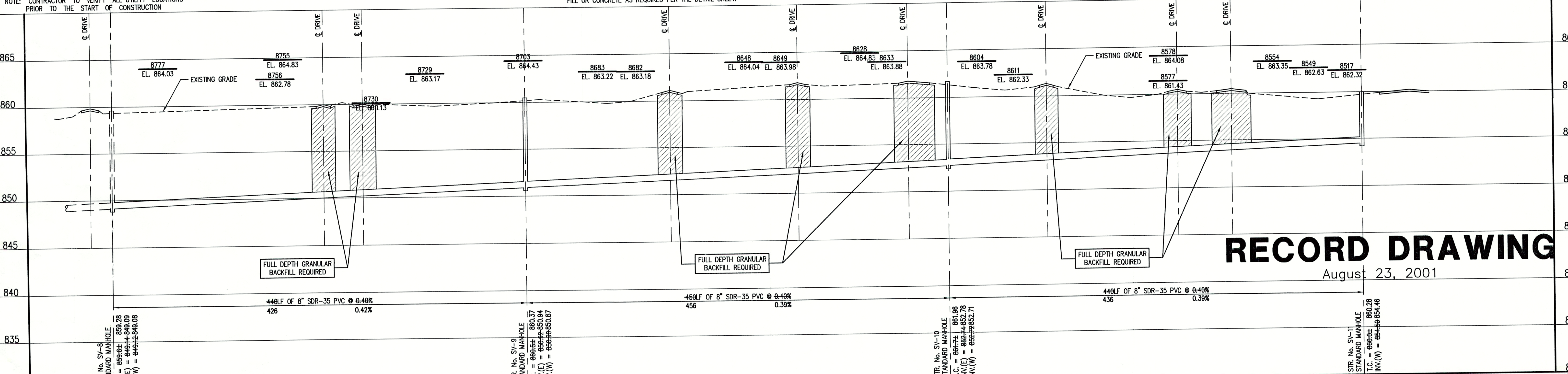
# GENERAL NOTES:

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- CONTRACTOR SHALL MAINTAIN A MINIMUM 10'-0" HORIZONTAL AND 18" VERTICAL SEPARATION BETWEEN SEWER AND WATER MAINS.
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•	TREE	1085	CONTOUR	---	UNDERGROUND ELECTRIC LINE
○	POWER POLE	---	FENCE	---	UNDERGROUND TELEPHONE LINE
+	GUY WIRE	---	EXIST. SANITARY SEWER w/ MANHOLE	---	APPROX. RIGHT-OF-WAY
+	FIRE HYDRANT	---	NEW SANITARY SEWER w/ MANHOLE	---	APPROX. CORPORATE LIMITS
+	MAILBOX	---	NEW SANITARY SERVICE CONNECTION	---	APPROX. PROPERTY LINE
+	FLAGPOLE	---	WATER LINE	---	EXISTING WATER WELL
+	SPOT SHOT	---	GAS LINE	---	EXISTING SEPTIC TANK



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



## RECORD DRAWING

August 23, 2001

NOTE:  
THE CONTRACTOR SHALL INCLUDE IN THE COSTS FOR SANITARY PIPE, ALL WATER SERVICE RECONNECTIONS, STORM SEWER RECONNECTION, WATER MAIN RELOCATIONS, CONCRETE RECONSTRUCTION, AND SIDEWALK RECONSTRUCTION AS REQUIRED TO INSTALL NEW WORK AS SHOWN ON THE DRAWINGS.

FILE NAME: SUN_SREV-RD		PLOT SCALE: 1=50		PLOT DATE: 11/19	
NO.	DATE	DESCRIPTION			BY

**TRIAD ASSOCIATES INC.**  
INDIANAPOLIS, INDIANA

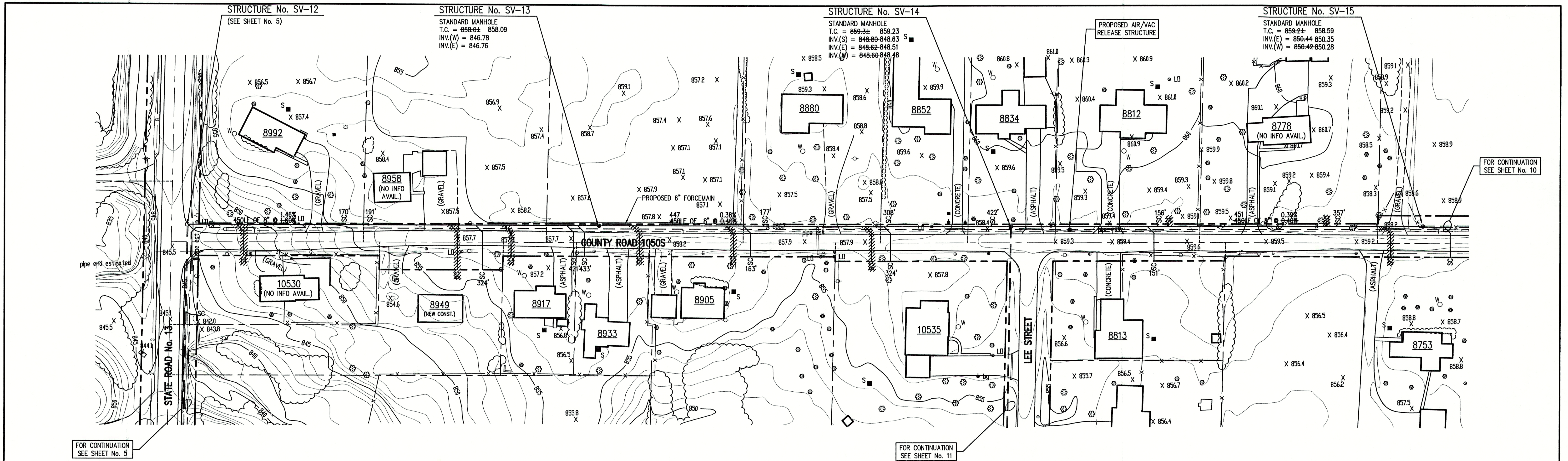
APPROVED BY:  
THOMAS M. SCHUBERT  
REGISTERED PROFESSIONAL ENGINEER  
No. 15614  
STATE OF INDIANA  
Thomas M. Schubert, P.E.

SUNVIEW, ALFONT, REFORMATORY ROAD  
FALL CREEK REGIONAL WASTE DISTRICT

PLAN AND PROFILE

DRAWN BY: DAP  
DATE: 04/12/98  
SCALE: AS NOTED  
PROJECT No.: 98008A  
SHEET No.: 8  
DESIGNED BY: D.A. Pauling  
CHECKED BY: James W. Frazell, P.E.





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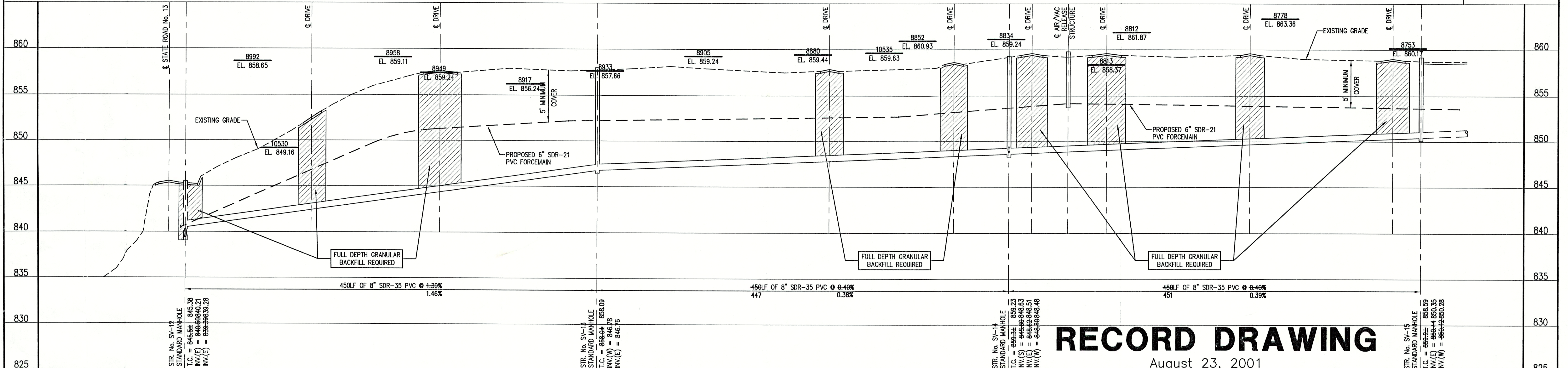
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LEGEND:	
1085	CONTOUR
—X—X—	FENCE
—MH—	EXIST. SANITARY SEWER w/ MANHOLE
—SC—	NEW SANITARY SEWER w/ MANHOLE
—W—	NEW SANITARY SERVICE CONNECTION
—4"—W—	WATER LINE
—2"—G—	GAS LINE
—E—	UNDERGROUND ELECTRIC LINE
—T—	UNDERGROUND TELEPHONE LINE
---	APPROX. RIGHT-OF-WAY
---	APPROX. CORPORATE LIMITS
---	APPROX. PROPERTY LINE
○ W	EXISTING WATER WELL
■ S	EXISTING SEPTIC TANK
•	TREE
○	POWER POLE
+	GUY WIRE
+	FIRE HYDRANT
MB	MAILBOX
FP	FLAGPOLE
X 1085.2	SPOT SHOT



**SCALE:**  
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VERTICAL 1" = 5'



## RECORD DRAWING

August 23, 2001

FILE NAME: SUN\_REV-RD PLOT SCALE: 1"=50' PLOT DATE: 11/19

NO.	DATE	DESCRIPTION	BY

**TRIAD ASSOCIATES INC.**  
INDIANAPOLIS, INDIANA

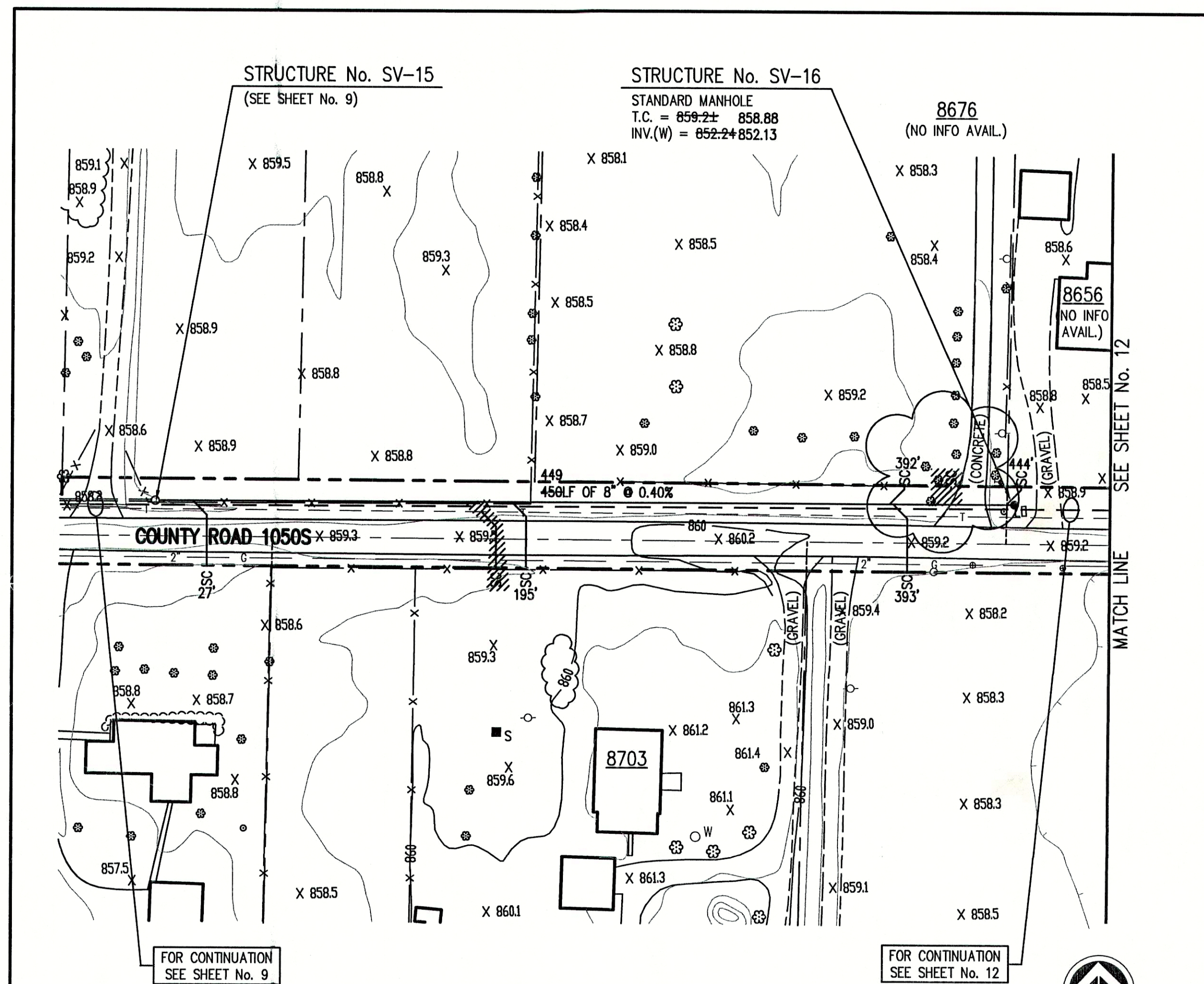
APPROVED BY:  
THOMAS M. SCHUBERT  
No. 15614  
STATE OF INDIANA  
PROFESSIONAL ENGINEER  
Thomas M. Schubert, P.E.

SUNVIEW, ALFONT, REFORMATORY ROAD  
FALL CREEK REGIONAL WASTE DISTRICT  
**PLAN AND PROFILE**  
DRAWN BY: DAP DATE: 04/12/98 PROJECT No. 98008A SHEET No. 9  
SCALE: AS NOTED  
DESIGNED BY: D.A. Pauling  
CHECKED BY: James W. Frazell, P.E.

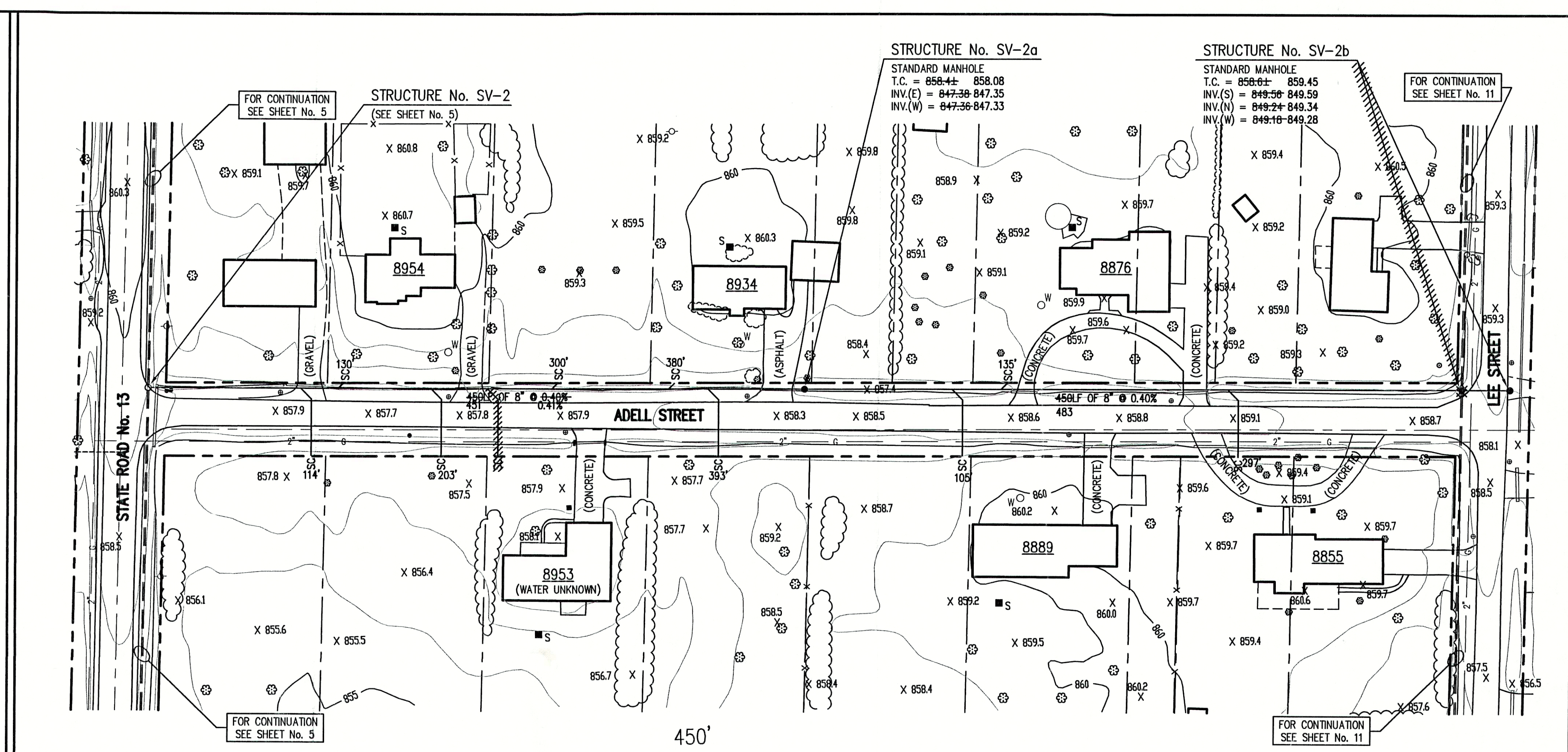
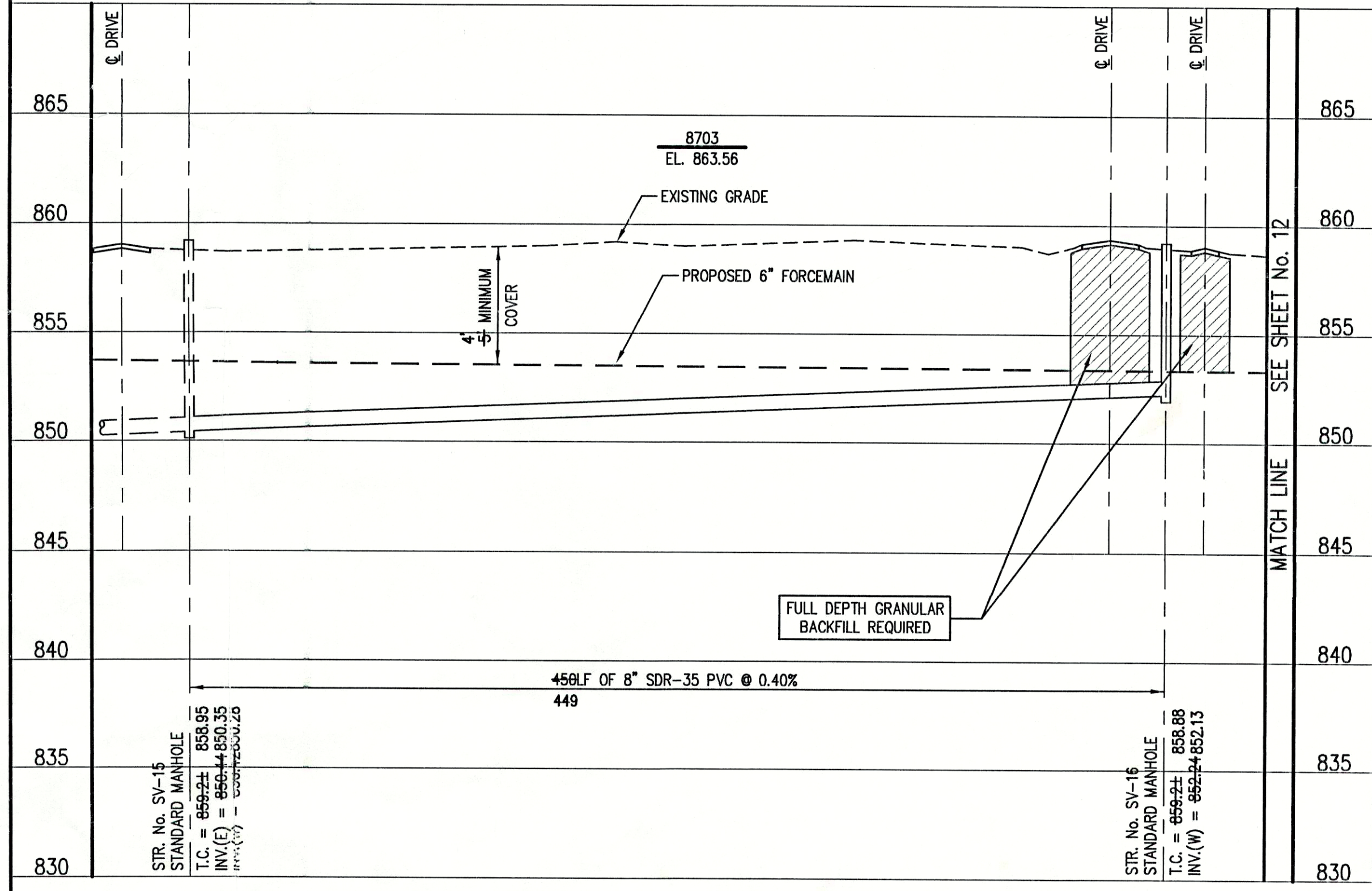
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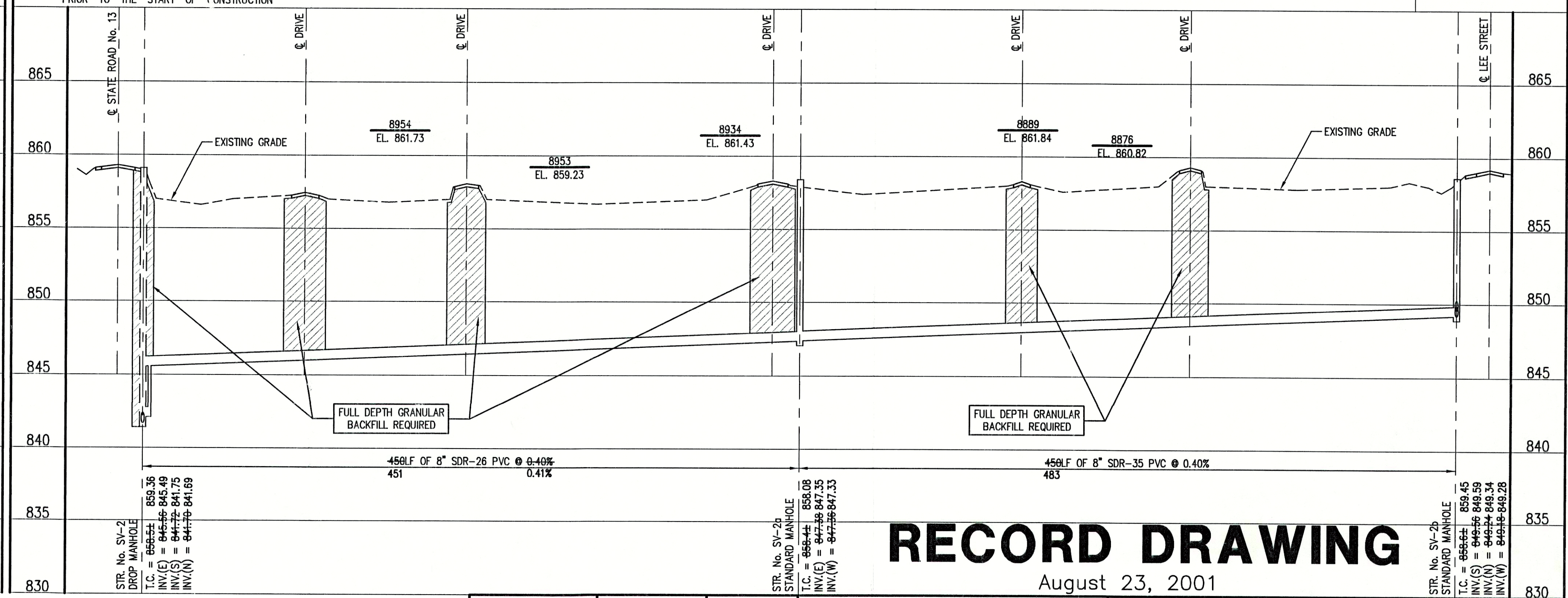
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- LEGEND:**
- TREE
  - POWER POLE
  - GUY WIRE
  - FIRE HYDRANT
  - MAILBOX
  - FLAGPOLE
  - SPOT SHOT
  - CONTOUR
  - FENCE
  - EXIST. SANITARY SEWER w/ MANHOLE
  - NEW SANITARY SEWER w/ MANHOLE
  - NEW SANITARY SERVICE CONNECTION
  - WATER LINE
  - GAS LINE
  - UNDERGROUND ELECTRIC LINE
  - UNDERGROUND TELEPHONE LINE
  - APPROX. RIGHT-OF-WAY
  - APPROX. CORPORATE LIMITS
  - APPROX. PROPERTY LINE
  - EXISTING WATER WELL
  - EXISTING SEPTIC TANK



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



**RECORD DRAWING**

August 23, 2001

FILE NAME: SUN\_BREV.RD PLOT SCALE: 1"=50' PLOT DATE: 11/19

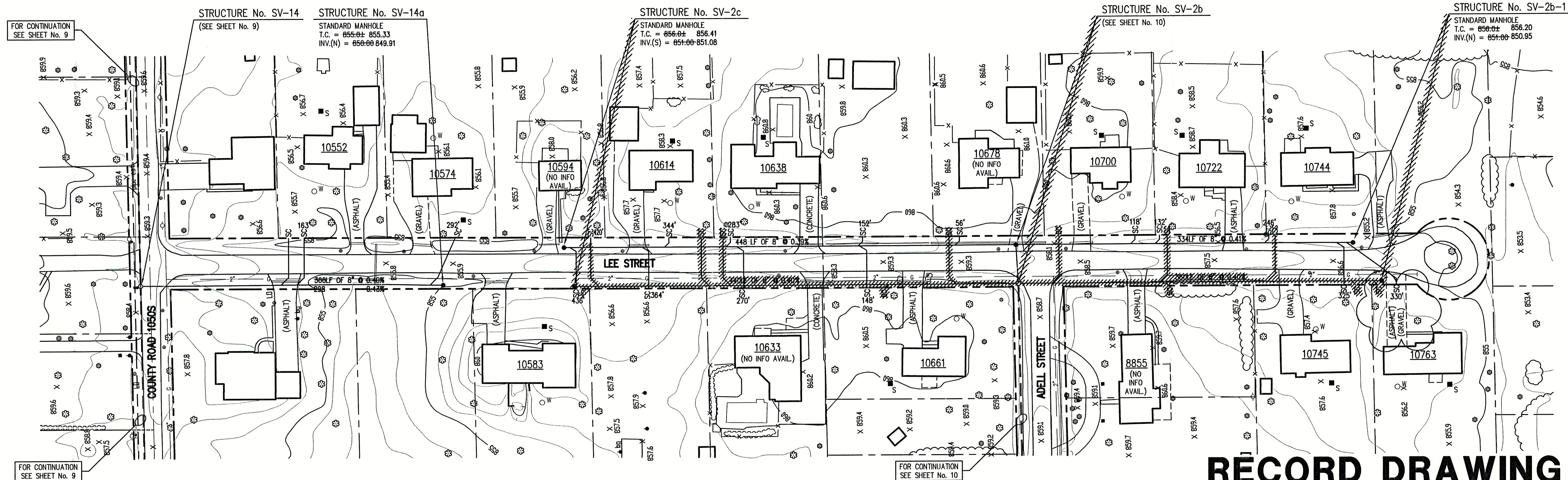
NO.	DATE	DESCRIPTION	BY

**TRIAD ASSOCIATES INC.**  
INDIANAPOLIS, INDIANA

APPROVED BY:  
**THOMAS M. SCHUBERT**  
No. 15614  
STATE OF INDIANA  
PROFESSIONAL ENGINEER  
Thomas M. Schubert, P.E.

SUNVIEW, ALFONT, REFORMATORY ROAD  
FALL CREEK REGIONAL WASTE DISTRICT  
**PLAN AND PROFILE**  
DRAWN BY: DAP DATE: 04/12/98 PROJECT No. 98008A SHEET No. 10  
DESIGNED BY: D.A. Pauling CHECKED BY: James W. Frazell, P.E. OF 33





# RECORD DRAWING

August 23, 2001

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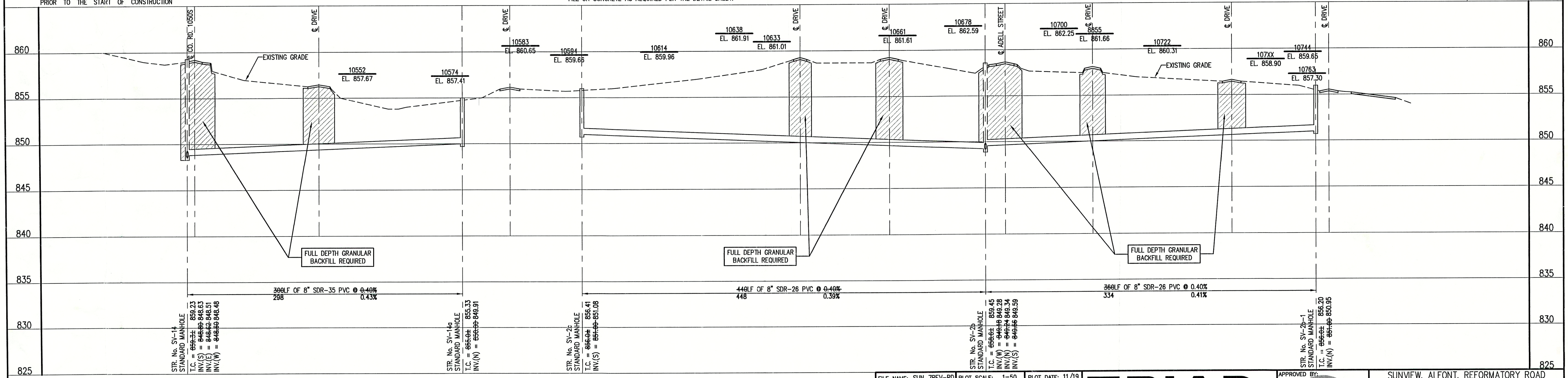
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- LEGEND:
- 1085 CONTOUR
  - POWER POLE
  - GUY WIRE
  - FIRE HYDRANT
  - MAILBOX
  - FLAGPOLE
  - SPOT SHOT
  - FENCE
  - EXIST. SANITARY SEWER w/ MANHOLE
  - NEW SANITARY SEWER w/ MANHOLE
  - NEW SANITARY SERVICE CONNECTION
  - WATER LINE
  - GAS LINE
  - UNDERGROUND ELECTRIC LINE
  - UNDERGROUND TELEPHONE LINE
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FILE NAME:	SUN_7REV-RD	PLOT SCALE:	1"=50'	PLOT DATE:	11/19
NO.	DATE	DESCRIPTION	BY		

**TRIAD ASSOCIATES INC.**  
INDIANAPOLIS, INDIANA

APPROVED BY:  
THOMAS M. SCHUBERT  
No. 15614  
STATE OF INDIANA  
PROFESSIONAL ENGINEER  
Thomas M. Schubert, P.E.

SUNVIEW, ALFONT, REFORMATORY ROAD  
FALL CREEK REGIONAL WASTE DISTRICT

PLAN AND PROFILE

DRAWN BY: DAP  
DATE: 04/12/98  
SCALE: AS NOTED  
PROJECT No. 98008A  
SHEET No. 11  
DESIGNED BY: D.A. Pauling  
CHECKED BY: James W. Frazell, P.E.  
Of 33







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LEGEND:

TREE	— X — X —	CONTOUR	— — — — —
POWER POLE	— X — X —	FENCE	— — — — —
GUY WIRE	— X — X —	EXIST. SANITARY SEWER w/ MANHOLE	— — — — —
FIRE HYDRANT	— X — X —	NEW SANITARY SEWER w/ MANHOLE	— — — — —
MAILBOX	— X — X —	NEW SANITARY SERVICE CONNECTION	— — — — —
FLAGPOLE	— X — X —	WATER LINE	— — — — —
SPOT SHOT	— X — X —	GAS LINE	— — — — —

UNDERGROUND ELECTRIC LINE  
UNDERGROUND TELEPHONE LINE  
APPROX. RIGHT-OF-WAY  
APPROX. CORPORATE LIMITS  
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EXISTING WATER WELL  
EXISTING SEPTIC TANK  
NEW GRINDER PUMP VALVE VAULT



SCALE:  
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**RECORD DRAWING**  
August 23, 2001

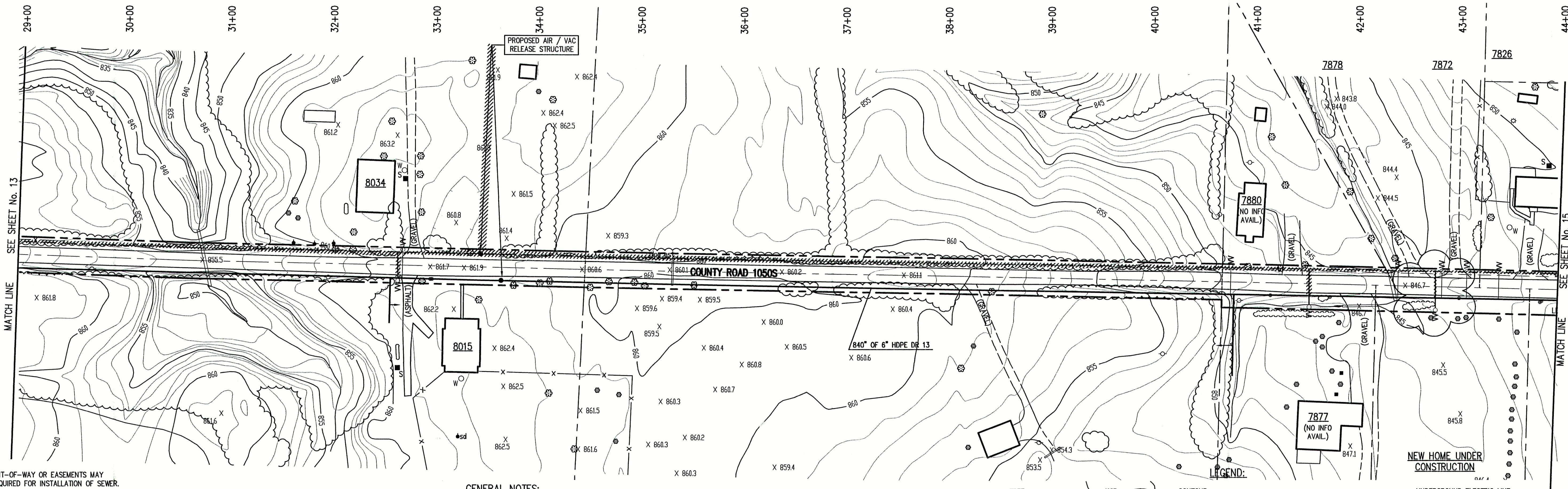
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NO.	DATE	DESCRIPTION	BY

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INDIANAPOLIS, INDIANA

APPROVED BY:  
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PROFESSIONAL ENGINEER

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FALL CREEK REGIONAL WASTE DISTRICT  
PLAN AND PROFILE  
DRAWN BY: DAP  
DATE: 04/12/98  
SCALE: AS NOTED  
PROJECT No. 98008A  
DESIGNED BY: D.A. Pauling  
CHECKED BY: James W. Frazell, P.E.  
SHEET No. 13  
OF 33





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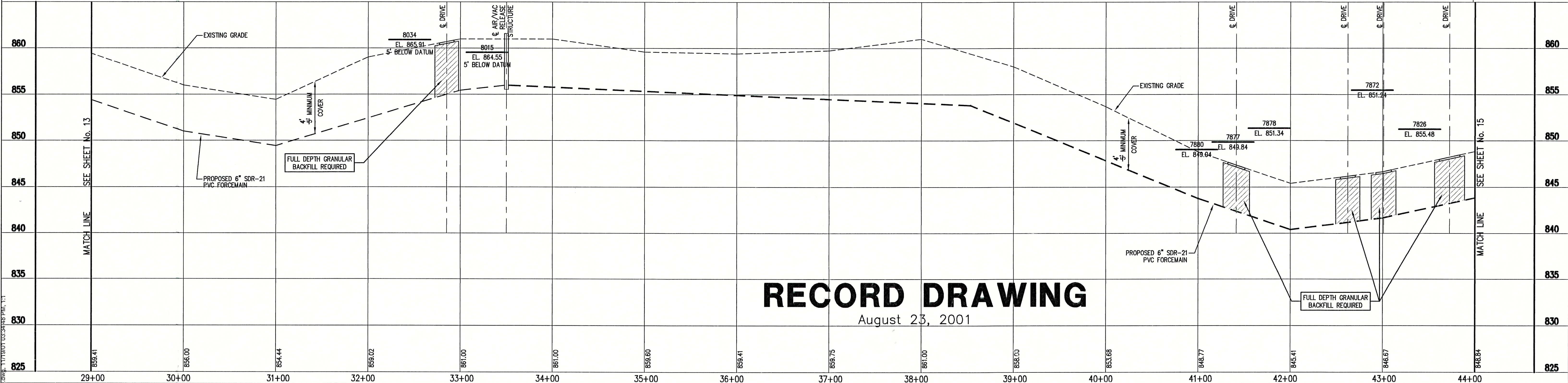
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- LEGEND:
- |              |        |                                  |           |                              |
|--------------|--------|----------------------------------|-----------|------------------------------|
| TREE         | 1085   | CONTOUR                          | — E —     | UNDERGROUND ELECTRIC LINE    |
| POWER POLE   | — X —  | FENCE                            | — T —     | UNDERGROUND TELEPHONE LINE   |
| GUY WIRE     | — M —  | EXIST. SANITARY SEWER w/ MANHOLE | — — —     | APPROX. RIGHT-OF-WAY         |
| FIRE HYDRANT | — SC — | NEW SANITARY SEWER w/ MANHOLE    | — · — · — | APPROX. CORPORATE LIMITS     |
| MAILBOX      | — 4" — | NEW SANITARY SERVICE CONNECTION  | — · — · — | APPROX. PROPERTY LINE        |
| FLAGPOLE     | — 2" — | WATER LINE                       | — O —     | EXISTING WATER WELL          |
| SPOT SHOT    | — 2" — | GAS LINE                         | — S —     | EXISTING SEPTIC TANK         |
|              |        |                                  | — W —     | NEW GRINDER PUMP VALVE VAULT |



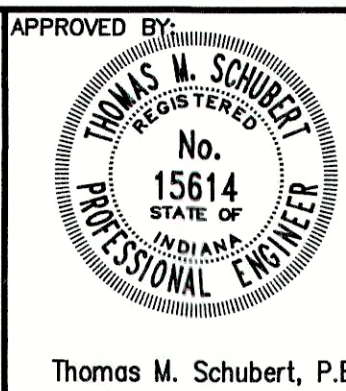
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August 23, 2001

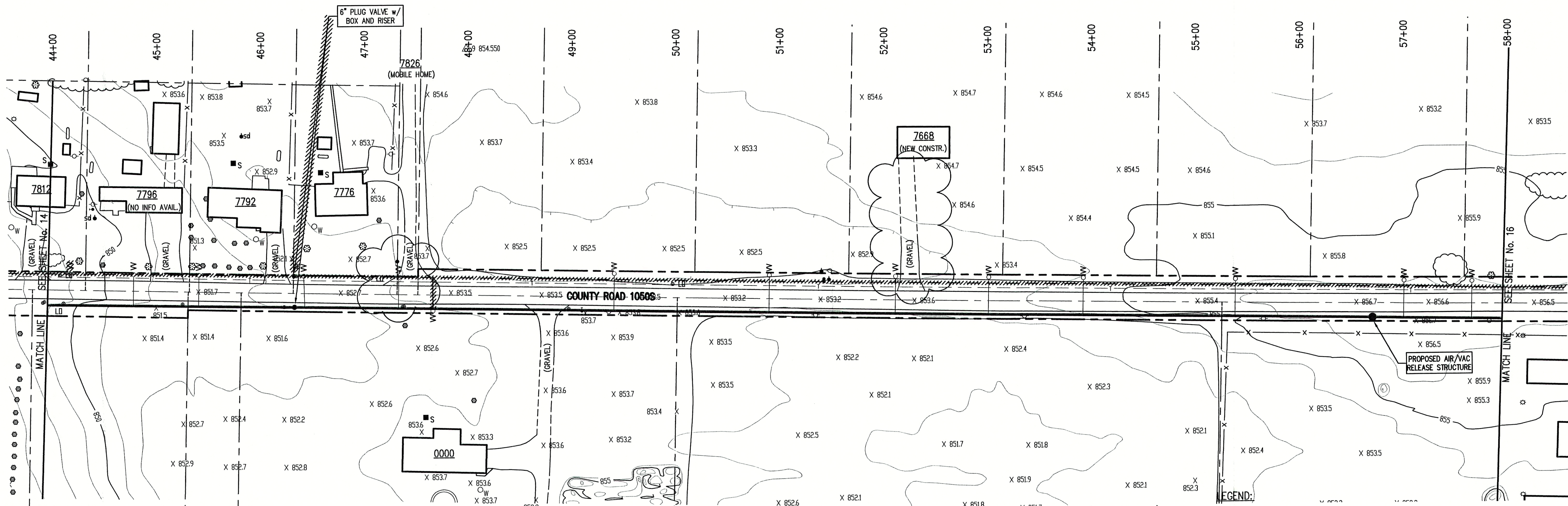
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NO.	DATE	DESCRIPTION	BY

**TRIAD ASSOCIATES INC.**  
INDIANAPOLIS, INDIANA



SUNVIEW, ALFONT, REFORMATORY ROAD FALL CREEK REGIONAL WASTE DISTRICT			
PLAN AND PROFILE			
DRAWN BY: DAP	DATE: 04/12/98	PROJECT No.: 98008A	SHEET No.: 14
DESIGNED BY: D.A. Pauling	SCALE: AS NOTED	CHECKED BY: James W. Frazell, P.E.	33 OF





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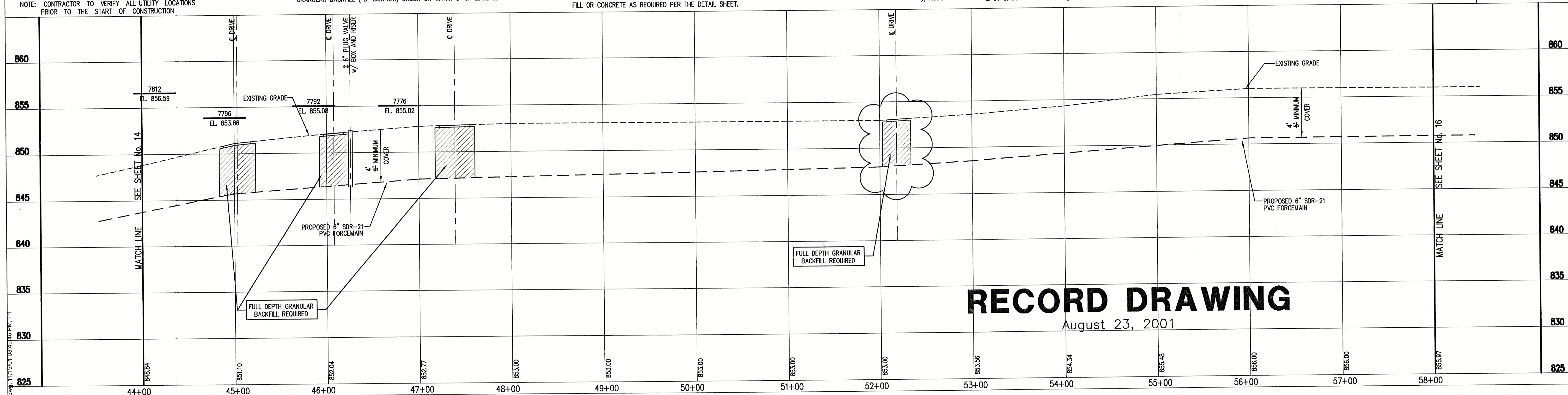
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- ALL UTILITY CROSSINGS SHALL BE PROTECTED AND SUPPORTED WITH GRANULAR FILL OR CONCRETE AS REQUIRED PER THE DETAIL SHEET.

TREE	1065	CONTOUR	UNDERGROUND ELECTRIC LINE
POWER POLE	X	FENCE	UNDERGROUND TELEPHONE LINE
GUY WIRE	---	EXIST. SANITARY SEWER w/ MANHOLE	APPROX. RIGHT-OF-WAY
FIRE HYDRANT	SC	NEW SANITARY SEWER w/ MANHOLE	APPROX. CORPORATE LIMITS
MAILBOX	---	NEW SANITARY SERVICE CONNECTION	APPROX. PROPERTY LINE
FLAGPOLE	---	WATER LINE	EXISTING WATER WELL
SPOT SHOT	---	GAS LINE	EXISTING SEPTIC TANK
			NEW GRINDER PUMP VALVE VAULT



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

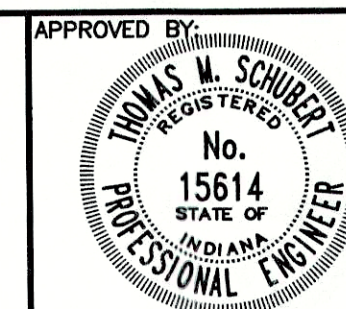


## RECORD DRAWING

August 23, 2001

FILE NAME: RCP04001-RD		PLOT SCALE: 1=1	PLOT DATE: 11/06
NO.	DATE	DESCRIPTION	BY

**TRIAD ASSOCIATES INC.**  
INDIANAPOLIS, INDIANA



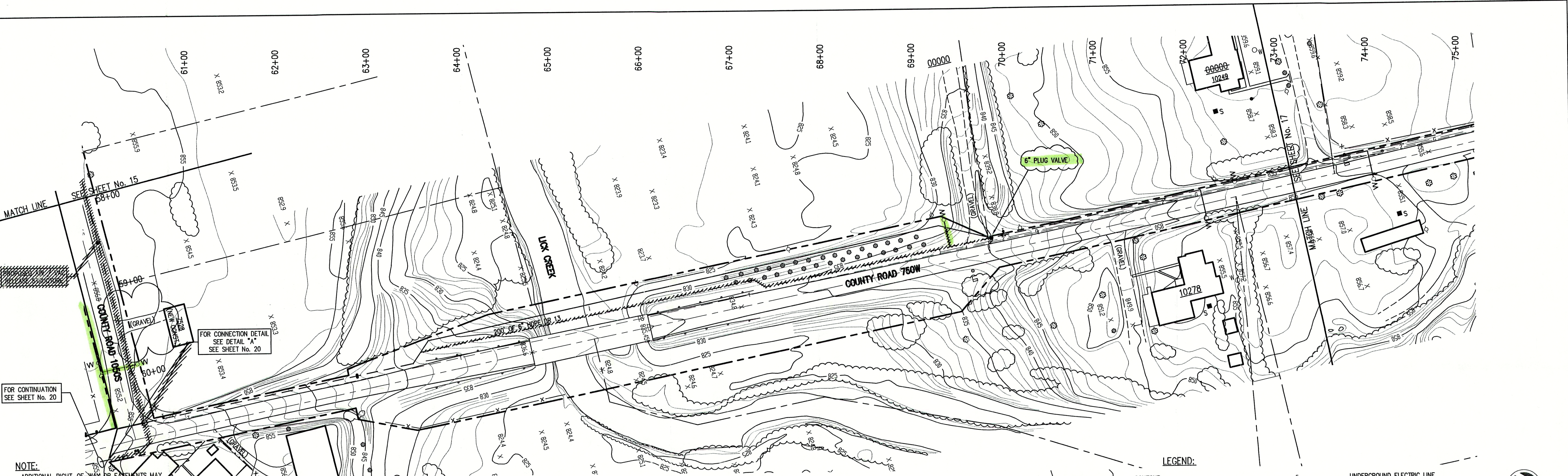
Thomas M. Schubert, P.E.

SUNVIEW, ALFONT, REFORMATORY ROAD  
FALL CREEK REGIONAL WASTE DISTRICT

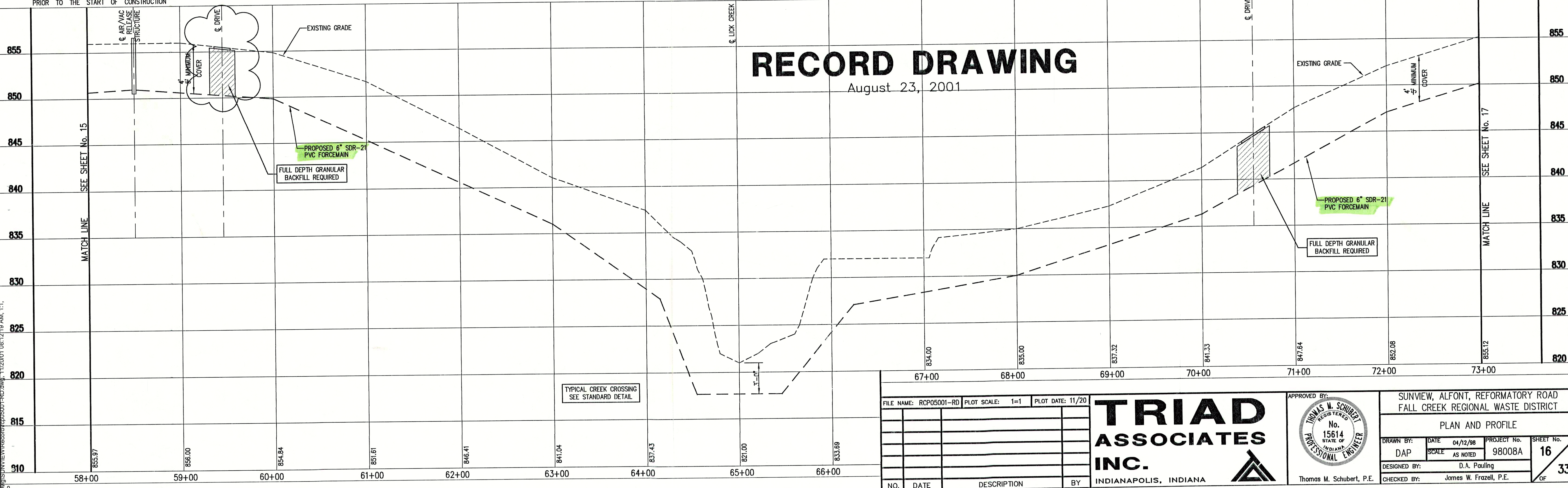
#### PLAN AND PROFILE

DRAWN BY: DAP	DATE: 04/12/98	PROJECT No. 98008A	SHEET No. 15
DESIGNED BY: D.A. Pauling	SCALE: AS NOTED	CHECKED BY: James W. Frazell, P.E.	33





- NOTE:** ADDITIONAL RIGHT-OF-WAY OR EASEMENTS MAY NEED TO BE ACQUIRED FOR INSTALLATION OF SEWER.
- GENERAL NOTES:**
1. ALL UTILITY LOCATIONS ARE APPROXIMATE. THE CONTRACTOR SHALL HAVE ALL UTILITIES FIELD VERIFIED AND MARKED PRIOR TO CONSTRUCTION.
  2. CONTRACTOR SHALL MAINTAIN A MINIMUM 10'-0" HORIZONTAL AND 18" VERTICAL SEPARATION BETWEEN SEWER AND WATER MAINS.
  3. ALL PROPOSED TOP OF CASTING ELEVATIONS ARE APPROXIMATE. THE CONTRACTOR SHALL ADJUST FINAL ELEVATIONS AS REQUIRED TO BE FLUSH WITH PAVEMENT.
  4. ALL SEWER TRENCHES SHALL BE BACKFILLED WITH FULL DEPTH COMPACTED GRANULAR BACKFILL ("B" BORROW) UNDER OR WITHIN 5' OF EDGE OF PAVEMENT.
  5. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID TO BECOME FAMILIAR WITH ALL SITE CONDITIONS.
  6. THE CONTRACTOR SHALL PROVIDE THE REQUIRED MEANS FOR MAINTAINING SAFE TRAFFIC AT ALL TIMES.
  7. CONTRACTOR SHALL RESTORE ALL DISTURBED LAWN AREAS, STREETS, WALKS, DRIVES, ETC. AS SHOWN ON DRAWINGS, IN THE SPECIFICATIONS, OR TO AT LEAST PRE-EXISTING CONDITIONS.
  8. ALL UTILITY CROSSINGS SHALL BE PROTECTED AND SUPPORTED WITH GRANULAR FILL OR CONCRETE AS REQUIRED PER THE DETAIL SHEET.
- LEGEND:**
- |              |           |                                  |           |
|--------------|-----------|----------------------------------|-----------|
| TREE         | 1085      | CONTOUR                          | — — — — — |
| POWER POLE   | — X — X — | FENCE                            | — — — — — |
| GUY WIRE     | — — — — — | EXIST. SANITARY SEWER w/ MANHOLE | — — — — — |
| FIRE HYDRANT | — • —     | NEW SANITARY SEWER w/ MANHOLE    | — — — — — |
| MAILBOX      | — SC —    | NEW SANITARY SERVICE CONNECTION  | — — — — — |
| FLAGPOLE     | — 4" —    | WATER LINE                       | — — — — — |
| SPOT SHOT    | — 2" —    | GAS LINE                         | — — — — — |
- SCALE:**  
HORIZONTAL 1" = 50'  
VERTICAL 1" = 5'



# RECORD DRAWING

August 23, 2001

FILE NAME: RCP05001-RD			
PLOT SCALE: 1"=1'		PLOT DATE: 11/20	
NO.	DATE	DESCRIPTION	BY

**TRIAD ASSOCIATES INC.**

INDIANAPOLIS, INDIANA

APPROVED BY:

THOMAS M. SCHUBERT, P.E.

No. 15614

STATE OF INDIANA

PROFESSIONAL ENGINEER

SUNVIEW, ALFONTO, REFORMATORY ROAD

FALL CREEK REGIONAL WASTE DISTRICT

PLAN AND PROFILE

DRAWN BY:	DATE	PROJECT NO.	SHEET NO.
DAP	04/12/98	98008A	16
DESIGNED BY:	SCALE	AS NOTED	
D.A. Pauling			
CHECKED BY:			
James W. Frazell, P.E.			

33



**NOTE:**

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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

**GENERAL NOTES:**

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- LEGEND:**
- TREE
  - POWER POLE
  - GUY WIRE
  - FIRE HYDRANT
  - MAILBOX
  - FLAGPOLE
  - SPOT SHOT
  - CONTOUR
  - FENCE
  - EXIST. SANITARY SEWER w/ MANHOLE
  - NEW SANITARY SEWER w/ MANHOLE
  - NEW SANITARY SERVICE CONNECTION
  - WATER LINE
  - GAS LINE
  - UNDERGROUND ELECTRIC LINE
  - UNDERGROUND TELEPHONE LINE
  - APPROX. RIGHT-OF-WAY
  - APPROX. CORPORATE LIMITS
  - APPROX. PROPERTY LINE
  - EXISTING WATER WELL
  - EXISTING SEPTIC TANK
  - NEW GRINDER PUMP VALVE VAULT



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

# **RECORD DRAWING**

August 23, 2001

FILE NAME: RCP06001-RD		PLOT SCALE: 1=1	PLOT DATE: 12/5
NO.	DATE	DESCRIPTION	BY

**TRIAD ASSOCIATES INC.**  
INDIANAPOLIS, INDIANA

APPROVED BY:  
**THOMAS M. SCHUBERT**  
REGISTERED PROFESSIONAL ENGINEER  
No. 15614  
STATE OF INDIANA

SUNVIEW, ALFONT, REFORMATORY ROAD  
FALL CREEK REGIONAL WASTE DISTRICT

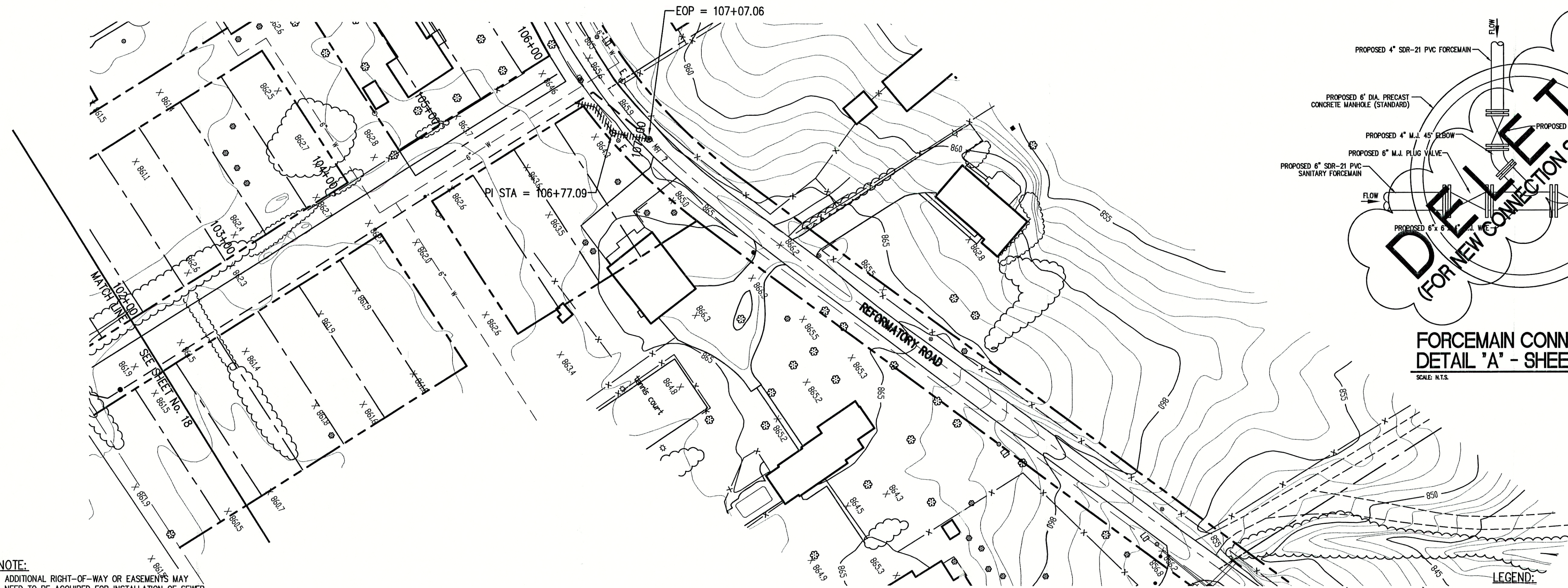
**PLAN AND PROFILE**

DRAWN BY: DATE 04/12/98 PROJECT No. 98008A SHEET No. 17  
DAP SCALE AS NOTED  
DESIGNED BY: D.A. Pauling  
CHECKED BY: James W. Frazell, P.E.









NOTE:  
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DON'T DIG BLIND  
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INDIANA  
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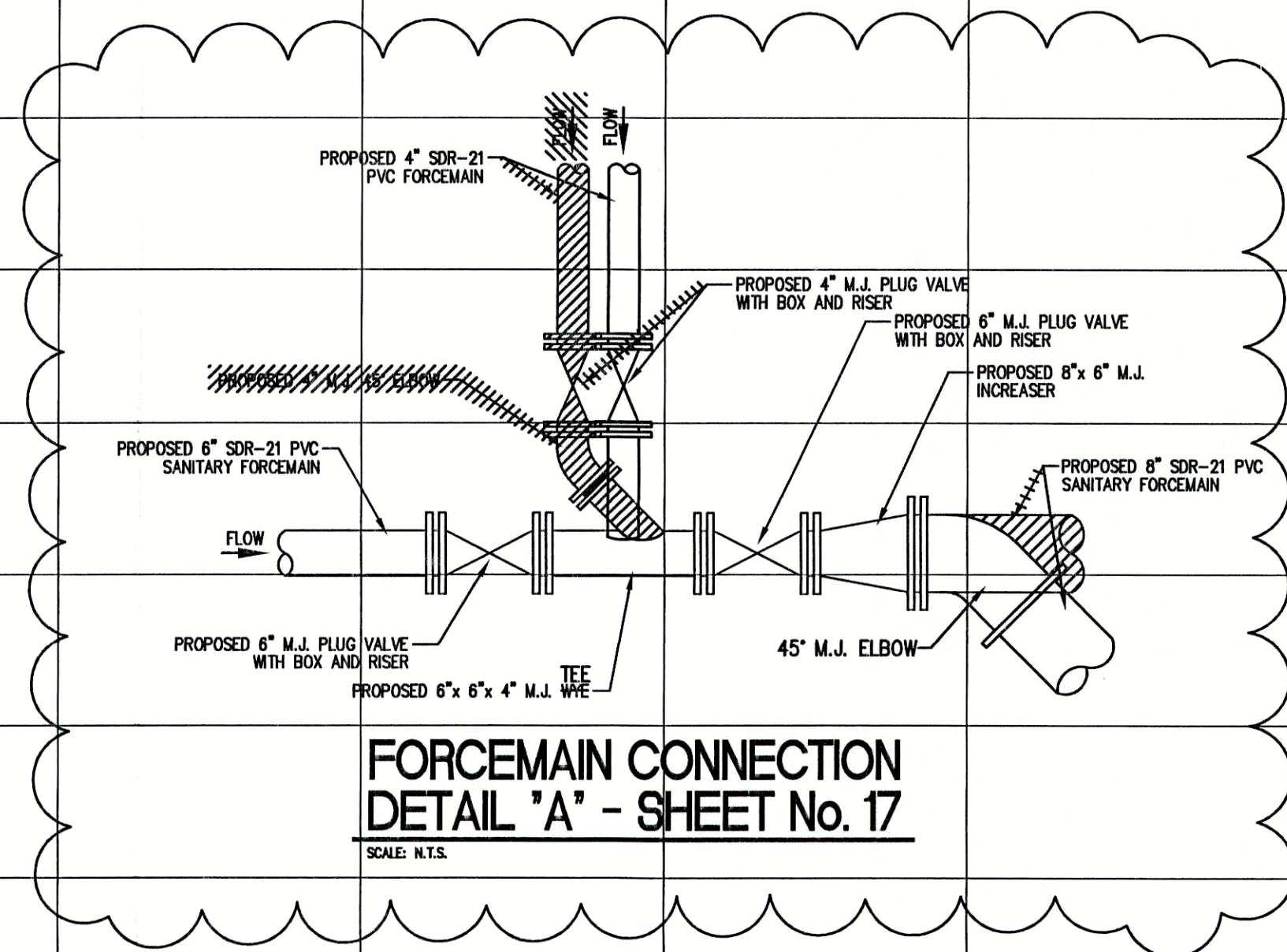
- LEGEND:
- |              |        |                                  |     |                            |
|--------------|--------|----------------------------------|-----|----------------------------|
| TREE         | —X—X—  | CONTOUR                          | —E— | UNDERGROUND ELECTRIC LINE  |
| POWER POLE   | —X—X—  | FENCE                            | —T— | UNDERGROUND TELEPHONE LINE |
| GUY WIRE     | —MH—   | EXIST. SANITARY SEWER w/ MANHOLE | —   | APPROX. RIGHT-OF-WAY       |
| FIRE HYDRANT | —      | NEW SANITARY SEWER w/ MANHOLE    | —   | APPROX. CORPORATE LIMITS   |
| MAILBOX      | —SC—   | NEW SANITARY SERVICE CONNECTION  | —   | APPROX. PROPERTY LINE      |
| FLAGPOLE     | —4"—W— | WATER LINE                       | —   | EXISTING WATER WELL        |
| SPOT SHOT    | —2"—G— | GAS LINE                         | —   | EXISTING SEPTIC TANK       |
- W/O — NEW GRINDER PUMP VALVE VAULT



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

## RECORD DRAWING

August 23, 2001



### FORCEMAIN CONNECTION DETAIL 'A' - SHEET No. 17

SCALE: N.T.S.

FILE NAME: RCP08001-RD PLOT SCALE: 1=1 PLOT DATE: 12/5

NO.	DATE	DESCRIPTION	BY

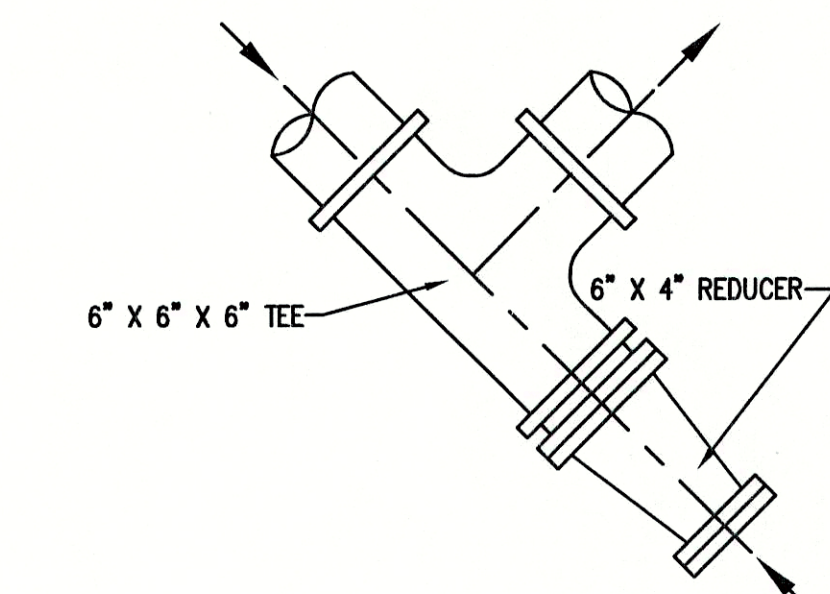
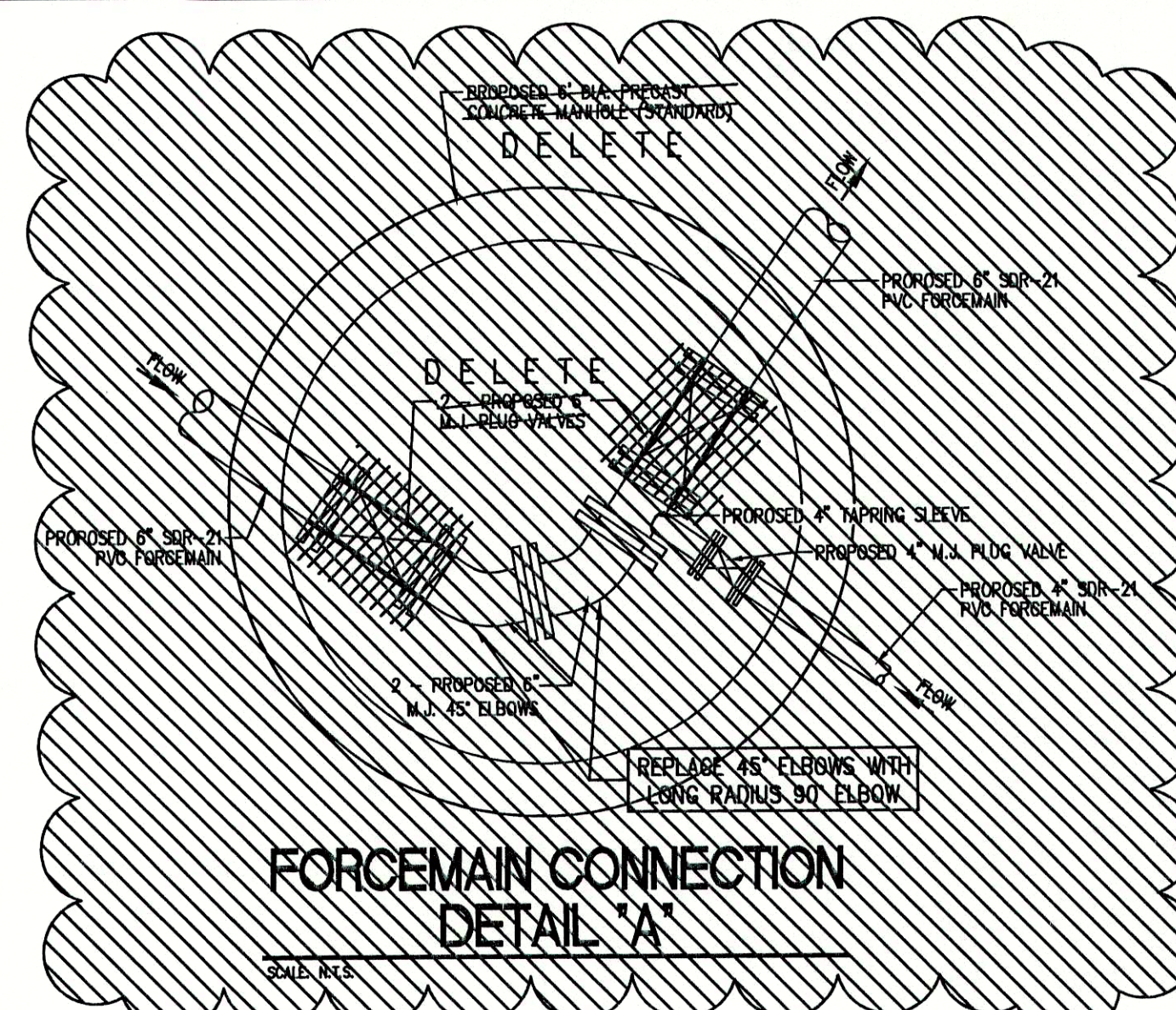
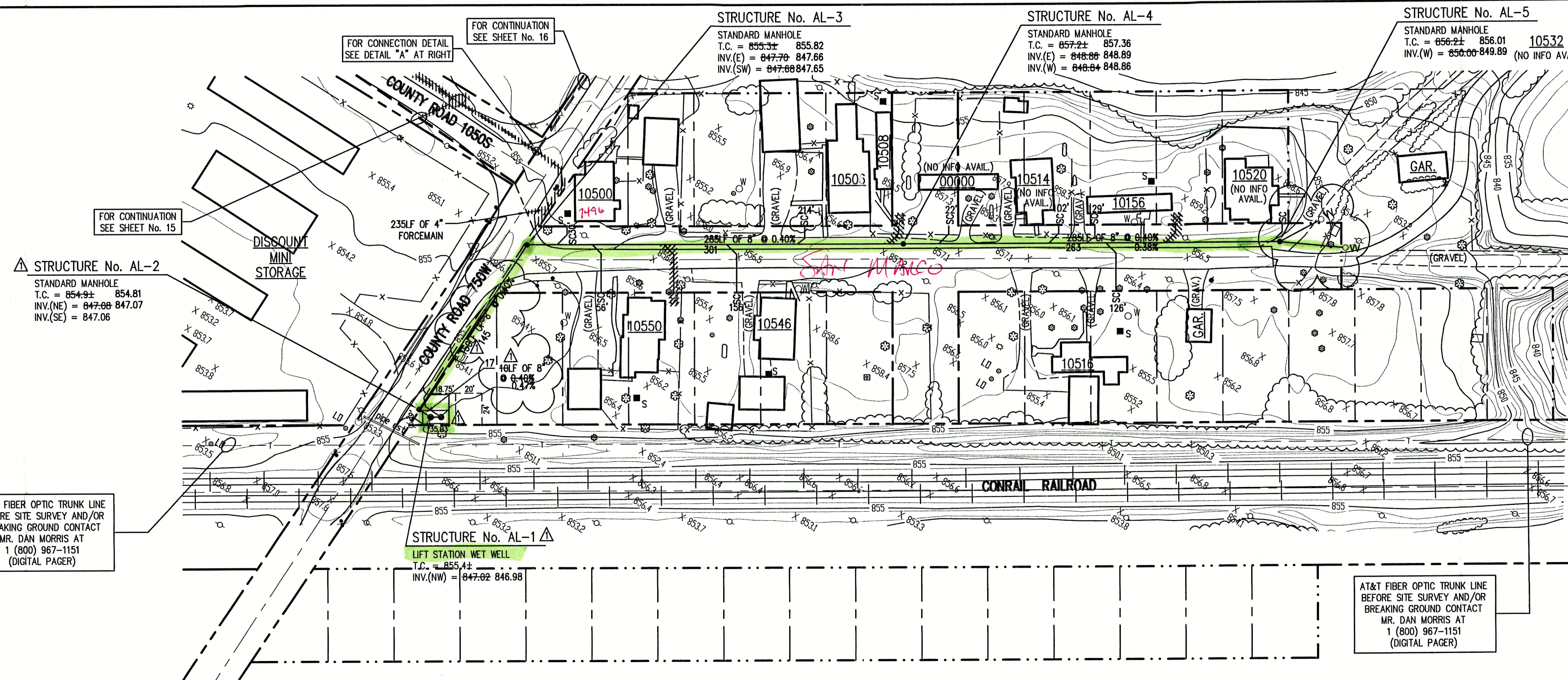
**TRIAD  
ASSOCIATES  
INC.**  
INDIANAPOLIS, INDIANA

APPROVED BY:  
**THOMAS M. SCHUBERT**  
REGISTERED  
No. 15614  
STATE OF INDIANA  
PROFESSIONAL ENGINEER  
Thomas M. Schubert, P.E.

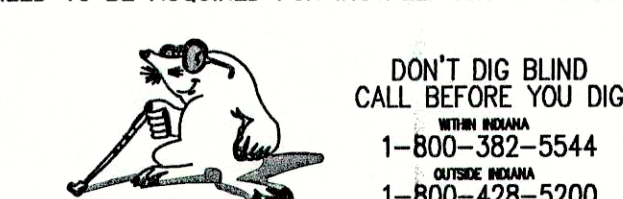
SUNVIEW, ALFONT, REFORMATORY ROAD  
FALL CREEK REGIONAL WASTE DISTRICT  
PLAN AND PROFILE  
DRAWN BY: DAP DATE: 04/12/98 PROJECT No. 98008A SHEET No. 19  
SCALE: AS NOTED  
DESIGNED BY: D.A. Pauling  
CHECKED BY: James W. Frazell, P.E.

33





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DON'T DIG BLIND  
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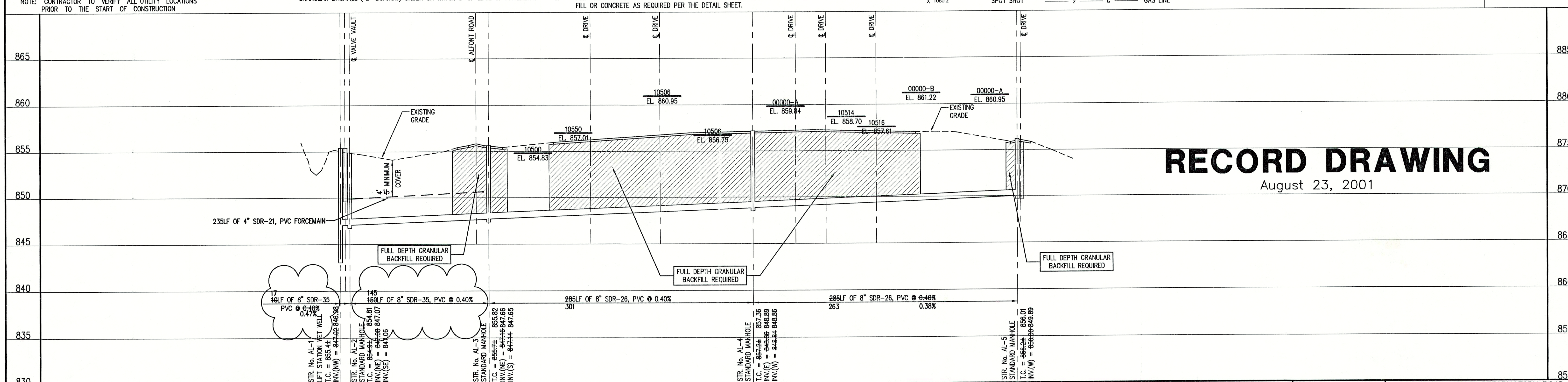
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- TREE
  - POWER POLE
  - GUY WIRE
  - FIRE HYDRANT
  - MAILBOX
  - FLAGPOLE
  - SPOT SHOT
  - CONTOUR
  - FENCE
  - EXIST. SANITARY SEWER w/ MANHOLE
  - NEW SANITARY SEWER w/ MANHOLE
  - NEW SANITARY SERVICE CONNECTION
  - WATER LINE
  - GAS LINE
  - UNDERGROUND ELECTRIC LINE
  - UNDERGROUND TELEPHONE LINE
  - APPROX. RIGHT-OF-WAY
  - APPROX. CORPORATE LIMITS
  - APPROX. PROPERTY LINE
  - EXISTING WATER WELL
  - EXISTING SEPTIC TANK



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



# **RECORD DRAWING** August 23, 2001

**NOTE:**  
THE CONTRACTOR SHALL INCLUDE IN THE COSTS FOR SANITARY PIPE, ALL WATER SERVICE RECONNECTIONS, STORM SEWER RECONNECTION, WATER MAIN RELOCATIONS, CONCRETE RECONSTRUCTION, AND SIDEWALK RECONSTRUCTION AS REQUIRED TO INSTALL NEW WORK AS SHOWN ON THE DRAWINGS.

FILE NAME:	ALF_REV-RD	PLOT SCALE:	1=50	PLOT DATE:	12/7
DATE:	7/28/99	DESCRIPTION:	LIFT STATION RELOCATED	BY:	D.A.P.
NO.		DATE		DESCRIPTION	BY

**TRIAD ASSOCIATES INC.**  
INDIANAPOLIS, INDIANA

APPROVED BY:   
Thomas W. Schubert, P.E.

SUNVIEW, ALFONT, REFORMATORY ROAD  
FALL CREEK REGIONAL WASTE DISTRICT

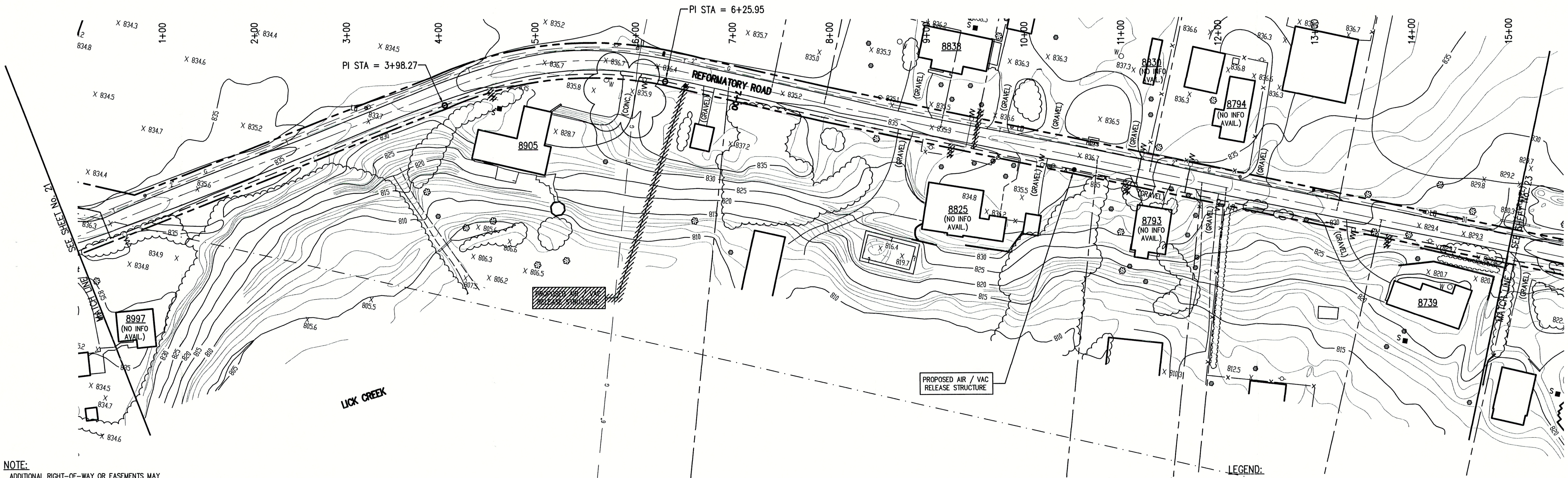
PLAN AND PROFILE

DRAWN BY:	DATE	PROJECT No.	SHEET No.
DAP	04/12/98	98008A	20
DESIGNED BY:	SCALE		
D.A. Pauling	AS NOTED		
CHECKED BY:			
James W. Frazell, P.E.			33









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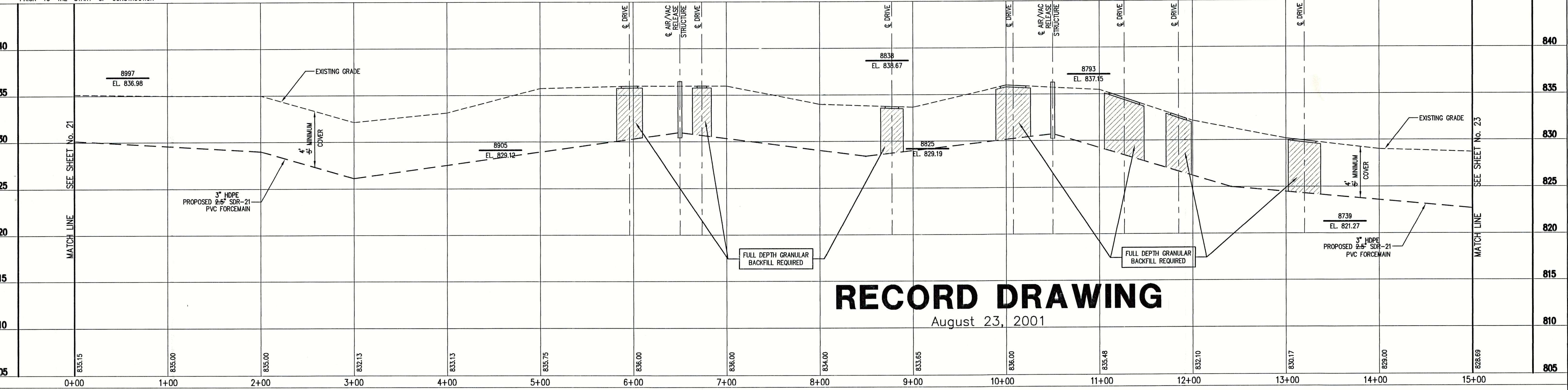
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- LEGEND:
- TREE
  - POWER POLE
  - GUY WIRE
  - FIRE HYDRANT
  - MAILBOX
  - FLAGPOLE
  - SPOT SHOT
  - 1085
  - CONTOUR
  - FENCE
  - EXIST. SANITARY SEWER w/ MANHOLE
  - NEW SANITARY SEWER w/ MANHOLE
  - NEW SANITARY SERVICE CONNECTION
  - WATER LINE
  - GAS LINE
  - UNDERGROUND ELECTRIC LINE
  - UNDERGROUND TELEPHONE LINE
  - APPROX. RIGHT-OF-WAY
  - APPROX. CORPORATE LIMITS
  - APPROX. PROPERTY LINE
  - EXISTING WATER WELL
  - EXISTING SEPTIC TANK
  - NEW GRINDER PUMP VALVE VAULT



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



RECORD DRAWING  
August 23, 2001

FILE NAME: RCP01002-RD		PLOT SCALE: 1=1		PLOT DATE: 11/20	
NO.	DATE	DESCRIPTION	BY		

**TRIAD ASSOCIATES INC.**

INDIANAPOLIS, INDIANA

APPROVED BY:

THOMAS M. SCHUBERT  
REGISTERED  
No. 15614  
STATE OF INDIANA  
PROFESSIONAL ENGINEER

Thomas M. Schubert, P.E.

SUNVIEW, ALFONT, REFORMATORY ROAD  
FALL CREEK REGIONAL WASTE DISTRICT

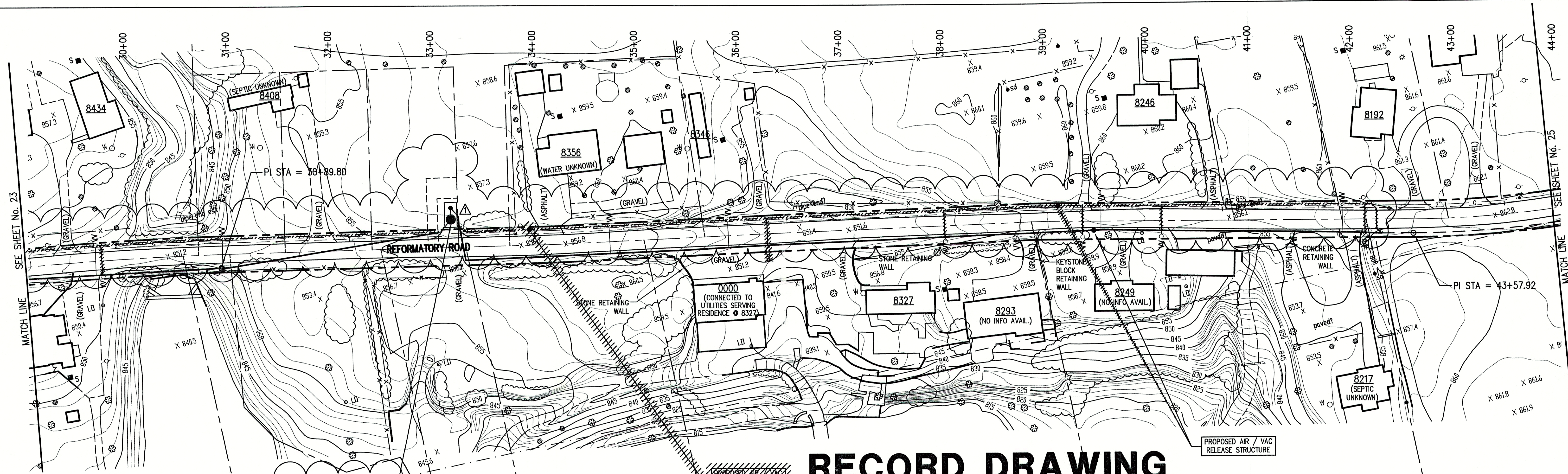
PLAN AND PROFILE

DRAWN BY:	DATE	PROJECT No.	SHEET No.
DAP	04/12/98	98008A	22
DESIGNED BY:	AS NOTED	D.A. Pauling	33
CHECKED BY:		James W. Frazell, P.E.	OF









# RECORD DRAWING

August 23, 2001

NOTE:  
ADDITIONAL RIGHT-OF-WAY OR EASEMENTS MAY  
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PER INDIANA STATE LAW IS-69-1991, IT IS  
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NOTE: CONTRACTOR TO VERIFY ALL UTILITY LOCATIONS  
PRIOR TO THE START OF CONSTRUCTION

PROPOSED LIFT-STATION  
PROPOSED WET WELL  
T.C. = 857.4±  
INV.(IN) = 852.00  
INV.(OUT) = 852.00

### GENERAL NOTES:

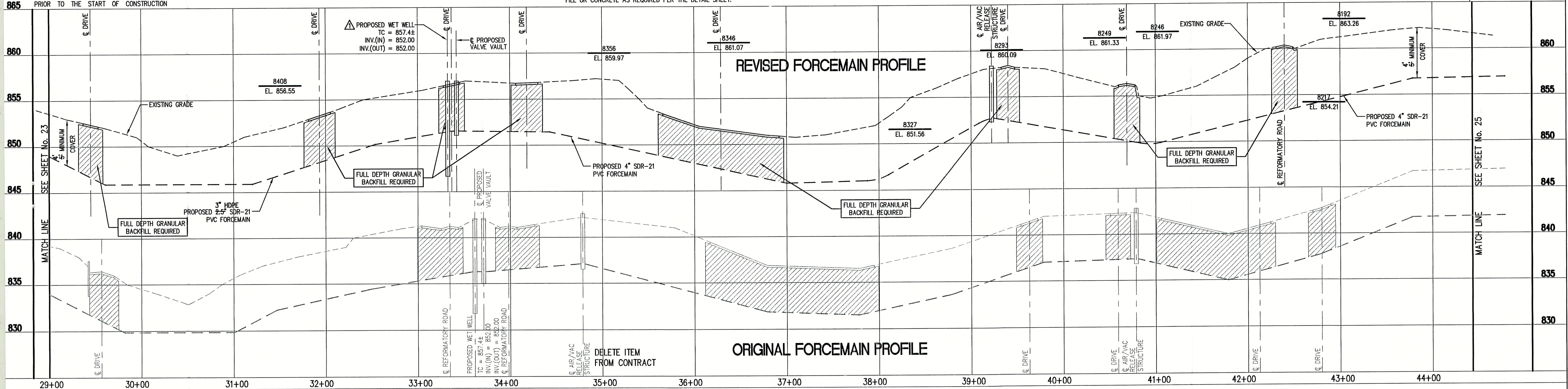
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### LEGEND:

- |          |              |            |                                  |
|----------|--------------|------------|----------------------------------|
| •        | TREE         | 1085       | CONTOUR                          |
| ○        | POWER POLE   | — X — X —  | FENCE                            |
| —        | GUY WIRE     | — MH —     | EXIST. SANITARY SEWER w/ MANHOLE |
| •        | FIRE HYDRANT | — SC —     | NEW SANITARY SEWER w/ MANHOLE    |
| MB       | MAILBOX      | — 4" — W — | NEW SANITARY SERVICE CONNECTION  |
| FP       | FLAGPOLE     | — 2" — G — | WATER LINE                       |
| X 1085.2 | SPOT SHOT    |            | GAS LINE                         |
| — E —    |              |            | UNDERGROUND ELECTRIC LINE        |
| — T —    |              |            | UNDERGROUND TELEPHONE LINE       |
| —        |              |            | APPROX. RIGHT-OF-WAY             |
| —        |              |            | APPROX. CORPORATE LIMITS         |
| —        |              |            | APPROX. PROPERTY LINE            |
| ○ W      |              |            | EXISTING WATER WELL              |
| ■ S      |              |            | EXISTING SEPTIC TANK             |
| WO       |              |            | NEW GRINDER PUMP VALVE VAULT     |



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



FILE NAME: RCP03002-RD PLOT SCALE: 1=1 PLOT DATE: 12/6			
07/14/99	LIFT STATION RELOCATED	D.A.P.	
NO.	DATE	DESCRIPTION	BY

**TRIAD ASSOCIATES INC.**

INDIANAPOLIS, INDIANA

APPROVED BY:

Thomas M. Schubert, P.E.

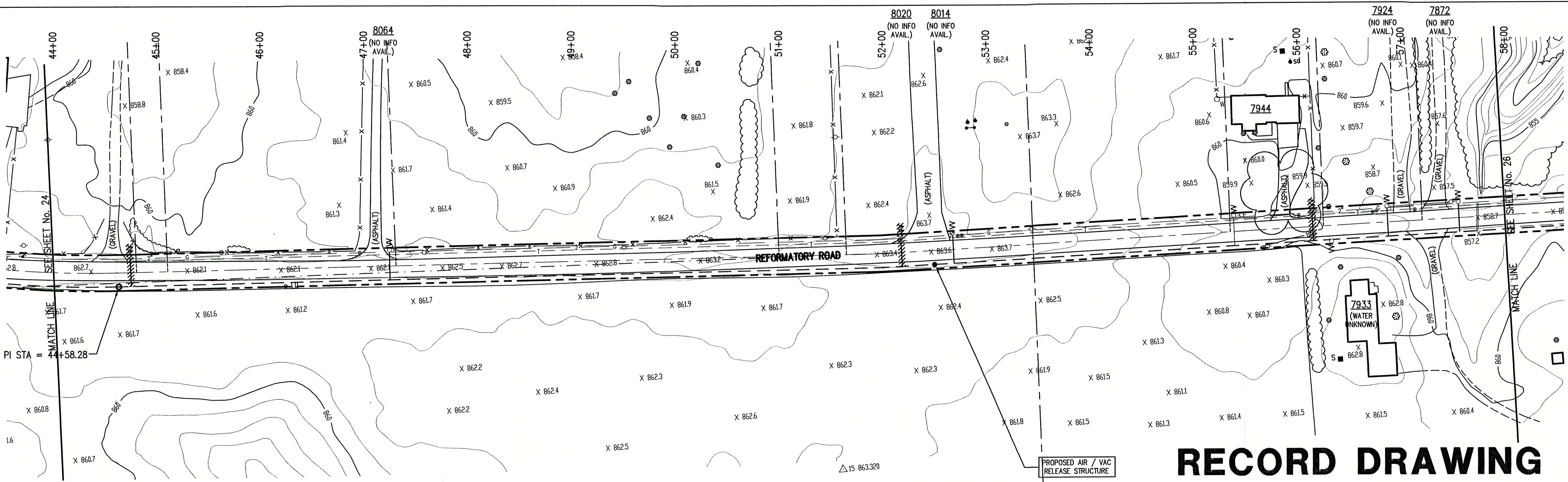
SUNVIEW, ALFONT, REFORMATORY ROAD  
FALL CREEK REGIONAL WASTE DISTRICT

PLAN AND PROFILE

DRAWN BY:	DATE	PROJECT No.	SHEET No.
DAP	04/12/98	98008A	24
DESIGNED BY:	AS NOTED		
D.A. Pauling			
CHECKED BY:			
James W. Frazell, P.E.			

33





# RECORD DRAWING

August 23, 2001

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

PER INDIANA STATE LAW IS-68-1981, IT IS  
AGAINST THE LAW TO EXCAVATE WITHOUT  
NOTIFYING THE UNDERGROUND LOCATION SERVICE  
TWO (2) WORKING DAYS BEFORE COMMENCING WORK.

NEW BRUNSWICK  
1-800-382-5544  
1-800-428-5200

NOTE: CONTRACTOR TO VERIFY ALL UTILITY LOCATIONS  
PRIOR TO THE START OF CONSTRUCTION

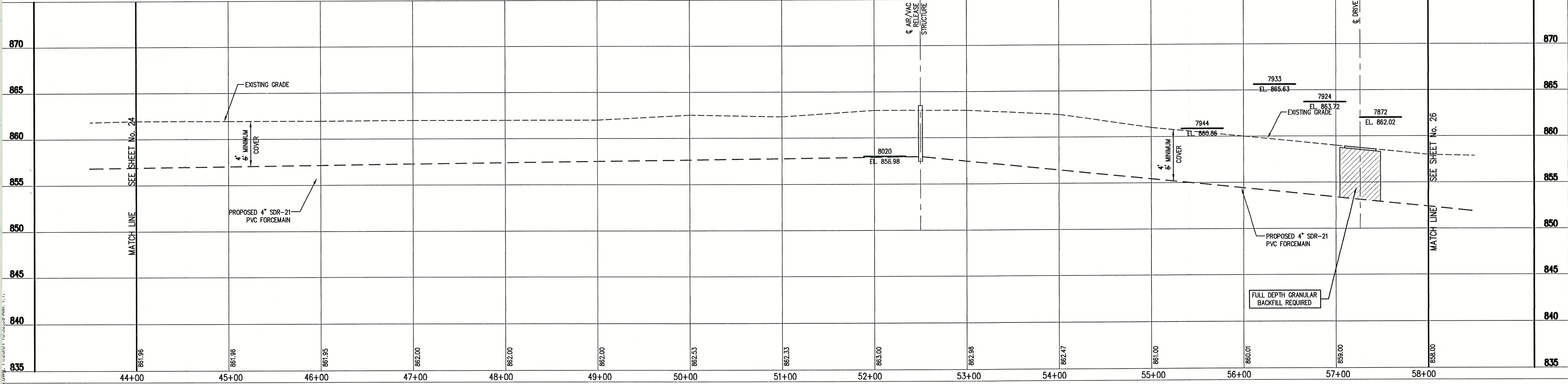
## GENERAL NOTES:

- ALL UTILITY LOCATIONS ARE APPROXIMATE. THE CONTRACTOR SHALL HAVE ALL UTILITIES FIELD VERIFIED AND MARKED PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL MAINTAIN A MINIMUM 10'-0" HORIZONTAL AND 18" VERTICAL SEPARATION BETWEEN SEWER AND WATER MAINS.
- ALL PROPOSED TOP OF CASTING ELEVATIONS ARE APPROXIMATE. THE CONTRACTOR SHALL ADJUST FINAL ELEVATIONS AS REQUIRED TO BE FLUSH WITH PAVEMENT.
- ALL SEWER TRENCHES SHALL BE BACKFILLED WITH FULL DEPTH COMPACTED GRANULAR BACKFILL ("B" BORROW) UNDER OR WITHIN 5' OF EDGE OF PAVEMENT.
- THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID TO BECOME FAMILIAR WITH ALL SITE CONDITIONS.
- THE CONTRACTOR SHALL PROVIDE THE REQUIRED MEANS FOR MAINTAINING SAFE TRAFFIC AT ALL TIMES.
- CONTRACTOR SHALL RESTORE ALL DISTURBED LAWN AREAS, STREETS, WALKS, DRIVES, ETC. AS SHOWN ON DRAWINGS, IN THE SPECIFICATIONS, OR TO AT LEAST PRE-EXISTING CONDITIONS.
- ALL UTILITY CROSSINGS SHALL BE PROTECTED AND SUPPORTED WITH GRANULAR FILL OR CONCRETE AS REQUIRED PER THE DETAIL SHEET.

- ### LEGEND:
- |              |        |                                  |                              |
|--------------|--------|----------------------------------|------------------------------|
| TREE         | 1085   | CONTOUR                          | UNDERGROUND ELECTRIC LINE    |
| POWER POLE   | X      | FENCE                            | UNDERGROUND TELEPHONE LINE   |
| GUY WIRE     | —X—X—  | EXIST. SANITARY SEWER w/ MANHOLE | APPROX. RIGHT-OF-WAY         |
| FIRE HYDRANT | SC     | NEW SANITARY SEWER w/ MANHOLE    | APPROX. CORPORATE LIMITS     |
| MAILBOX      | —4"—W— | NEW SANITARY SERVICE CONNECTION  | APPROX. PROPERTY LINE        |
| FLAGPOLE     | —2"—G— | WATER LINE                       | EXISTING WATER WELL          |
| SPOT SHOT    | —2"—G— | GAS LINE                         | EXISTING SEPTIC TANK         |
|              |        |                                  | NEW GRINDER PUMP VALVE VAULT |



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



FILE NAME: RCP04002-RD		PLOT SCALE: 1=1	PLOT DATE: 11/20
NO.	DATE	DESCRIPTION	BY

**TRIAD ASSOCIATES INC.**

INDIANAPOLIS, INDIANA

APPROVED BY:

THOMAS M. SCHUBERT  
No. 15614  
STATE OF INDIANA  
PROFESSIONAL ENGINEER

Thomas M. Schubert, P.E.

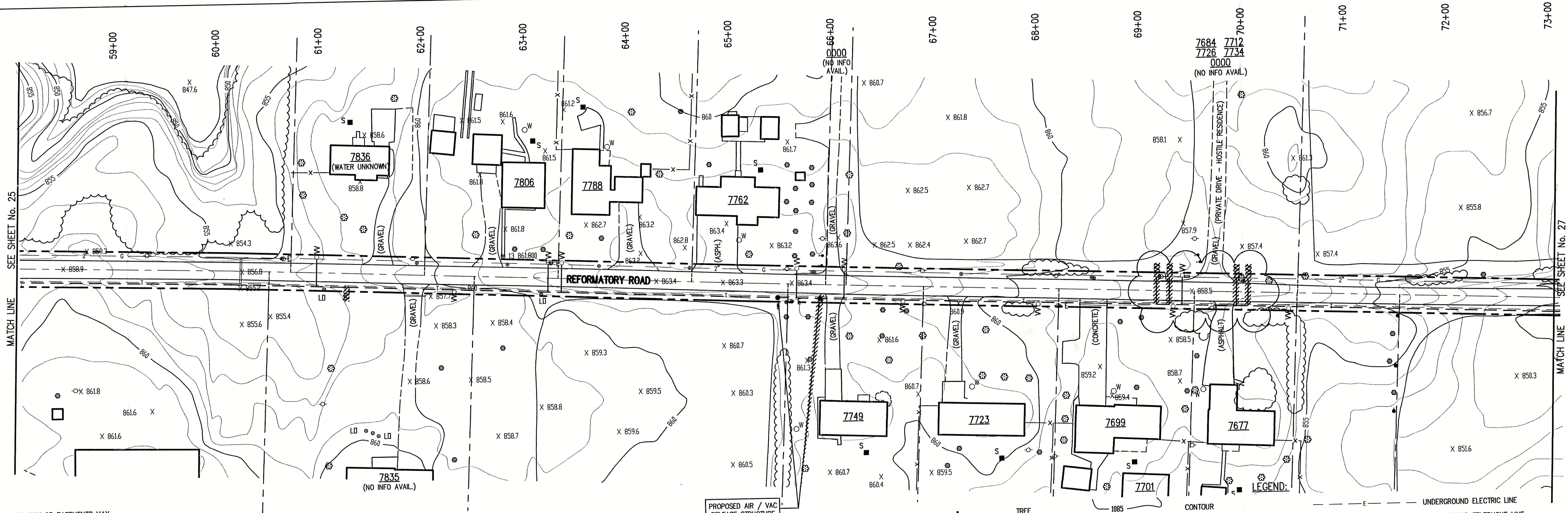
SUNVIEW, ALFONT, REFORMATORY ROAD  
FALL CREEK REGIONAL WASTE DISTRICT

PLAN AND PROFILE

DRAWN BY:	DATE	04/12/98	PROJECT No.	98008A	SHEET No.	25
DAP	SCALE	AS NOTED	DESIGNED BY:	D.A. Pauling	CHECKED BY:	James W. Frazell, P.E.

33





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



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

PER INDIANA STATE LAW 15-69-1991, 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

#### GENERAL NOTES:

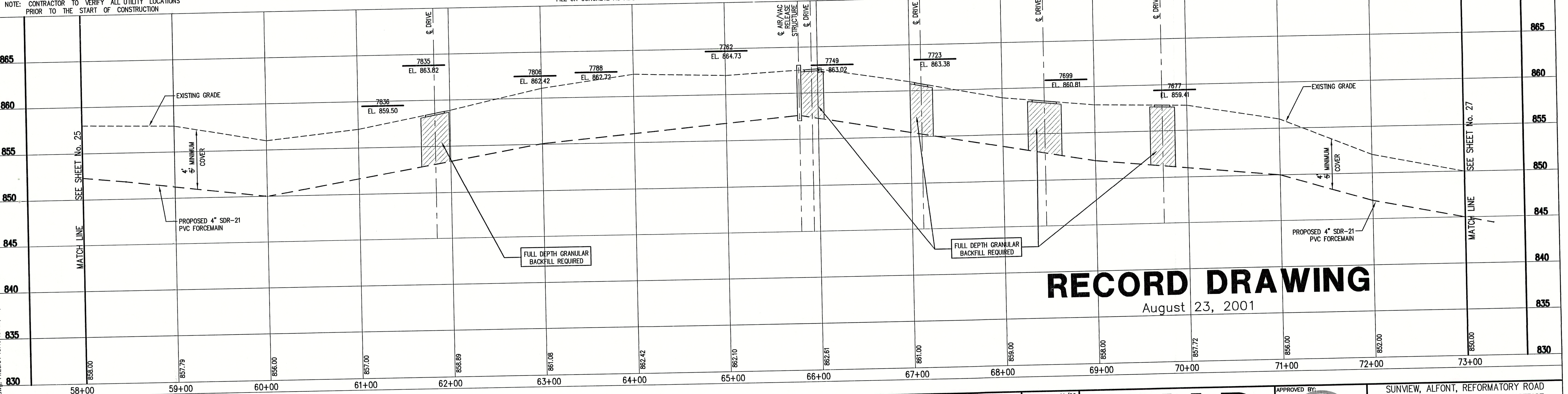
- ALL UTILITY LOCATIONS ARE APPROXIMATE. THE CONTRACTOR SHALL HAVE ALL UTILITIES FIELD VERIFIED AND MARKED PRIOR TO CONSTRUCTION.
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- ALL PROPOSED TOP OF CASTING ELEVATIONS ARE APPROXIMATE. THE CONTRACTOR SHALL ADJUST FINAL ELEVATIONS AS REQUIRED TO BE FLUSH WITH PAVEMENT.
- ALL SEWER TRENCHES SHALL BE BACKFILLED WITH FULL DEPTH COMPACTED GRANULAR BACKFILL ("B" BORROW) UNDER OR WITHIN 5' OF EDGE OF PAVEMENT.
- THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID TO BECOME FAMILIAR WITH ALL SITE CONDITIONS.
- THE CONTRACTOR SHALL PROVIDE THE REQUIRED MEANS FOR MAINTAINING SAFE TRAFFIC AT ALL TIMES.
- CONTRACTOR SHALL RESTORE ALL DISTURBED LAWN AREAS, STREETS, WALKS, DRIVES, ETC. AS SHOWN ON DRAWINGS, IN THE SPECIFICATIONS, OR TO AT LEAST PRE-EXISTING CONDITIONS.
- ALL UTILITY CROSSINGS SHALL BE PROTECTED AND SUPPORTED WITH GRANULAR FILL OR CONCRETE AS REQUIRED PER THE DETAIL SHEET.

PROPOSED AIR / VAC  
RELEASE STRUCTURE

- |              |                                     |                              |
|--------------|-------------------------------------|------------------------------|
| TREE         | CONTOUR                             | UNDERGROUND ELECTRIC LINE    |
| POWER POLE   | FENCE                               | UNDERGROUND TELEPHONE LINE   |
| GUY WIRE     | EXIST. SANITARY<br>SEWER w/ MANHOLE | APPROX. RIGHT-OF-WAY         |
| FIRE HYDRANT | NEW SANITARY SEWER w/ MANHOLE       | APPROX. CORPORATE LIMITS     |
| MAILBOX      | NEW SANITARY SERVICE CONNECTION     | APPROX. PROPERTY LINE        |
| FLAGPOLE     | WATER LINE                          | EXISTING WATER WELL          |
| SPOT SHOT    | GAS LINE                            | EXISTING SEPTIC TANK         |
|              |                                     | NEW GRINDER PUMP VALVE VAULT |



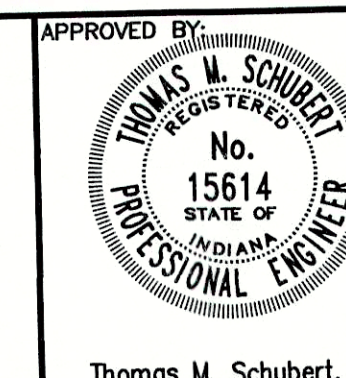
**SCALE:**  
HORIZONTAL 1" = 50'  
VERTICAL 1" = 5'



**RECORD DRAWING**  
August 23, 2001

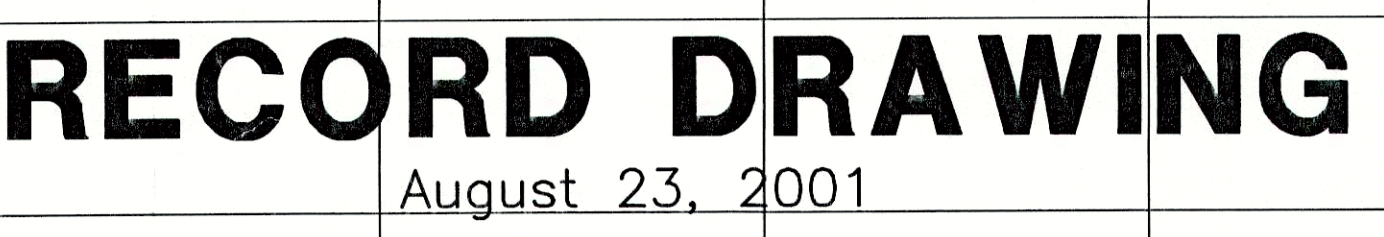
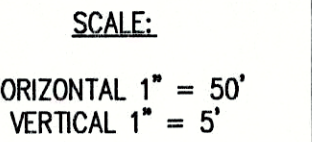
FILE NAME: RCP05002-RD		PLOT SCALE: 1=1	PLOT DATE: 11/20
NO.	DATE	DESCRIPTION	BY

**TRIAD  
ASSOCIATES  
INC.**  
INDIANAPOLIS, INDIANA



SUNVIEW, ALFONT, REFORMATORY ROAD FALL CREEK REGIONAL WASTE DISTRICT			
PLAN AND PROFILE			
DRAWN BY: DAP	DATE: 04/12/98	PROJECT No. 98008A	SHEET No. 26
DESIGNED BY: D.A. Pauling	CHECKED BY: James W. Frazell, P.E.	33	





FILE NAME: RCP06002-RD		PLOT SCALE: 1=1	PLOT DATE: 12/5	<div><div>TRIAD ASSOCIATES INC.</div><div>INDIANAPOLIS, INDIANA</div><div></div></div>															
NO.	DATE	DESCRIPTION	BY	<div><div>APPROVED BY:  Thomas M. Schubert, P.E.</div><div><div>SUNVIEW, ALFONT, REFORMATORY ROAD FALL CREEK REGIONAL WASTE DISTRICT</div><div>PLAN AND PROFILE</div><div><table><tr><td>DRAWN BY:</td><td>DATE 04/12/98</td><td>PROJECT No.</td><td rowspan="2">SHEET No. 27</td></tr><tr><td>DAP</td><td>SCALE AS NOTED</td><td>98008A</td></tr><tr><td colspan="3">DESIGNED BY: D.A. Pauling</td><td rowspan="2">33</td></tr><tr><td colspan="3">CHECKED BY: James W. Frazell, P.E.</td></tr></table></div><div>OF</div></div></div>		DRAWN BY:	DATE 04/12/98	PROJECT No.	SHEET No. 27	DAP	SCALE AS NOTED	98008A	DESIGNED BY: D.A. Pauling			33	CHECKED BY: James W. Frazell, P.E.		
DRAWN BY:	DATE 04/12/98	PROJECT No.	SHEET No. 27																
DAP	SCALE AS NOTED	98008A																	
DESIGNED BY: D.A. Pauling			33																
CHECKED BY: James W. Frazell, P.E.																			





August 23, 2001

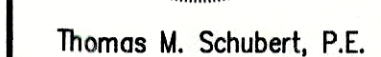
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CAPACITY	220 GPM
TDH	87 FEET
HP(min.)	20
RPM	1750
VOLTAGE	230/460
PHASE	3
TYPE	NON-CLOG
DISCHARGE	4"

<u>FLOAT FUNCTION</u>	<u>ELEVATION</u>
PUMPS OFF	832.03
LEAD PUMP ON	835.57
ALARM	837.07
LAG PUMP ON	836.57

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. 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 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 MANUFACTURERS REPRESENTATIVES.
10. CONCRETE STRUCTURE BELOW GRADE SHALL BE COATED WITH A BITUMINOUS COATING PER SPECIFICATIONS.

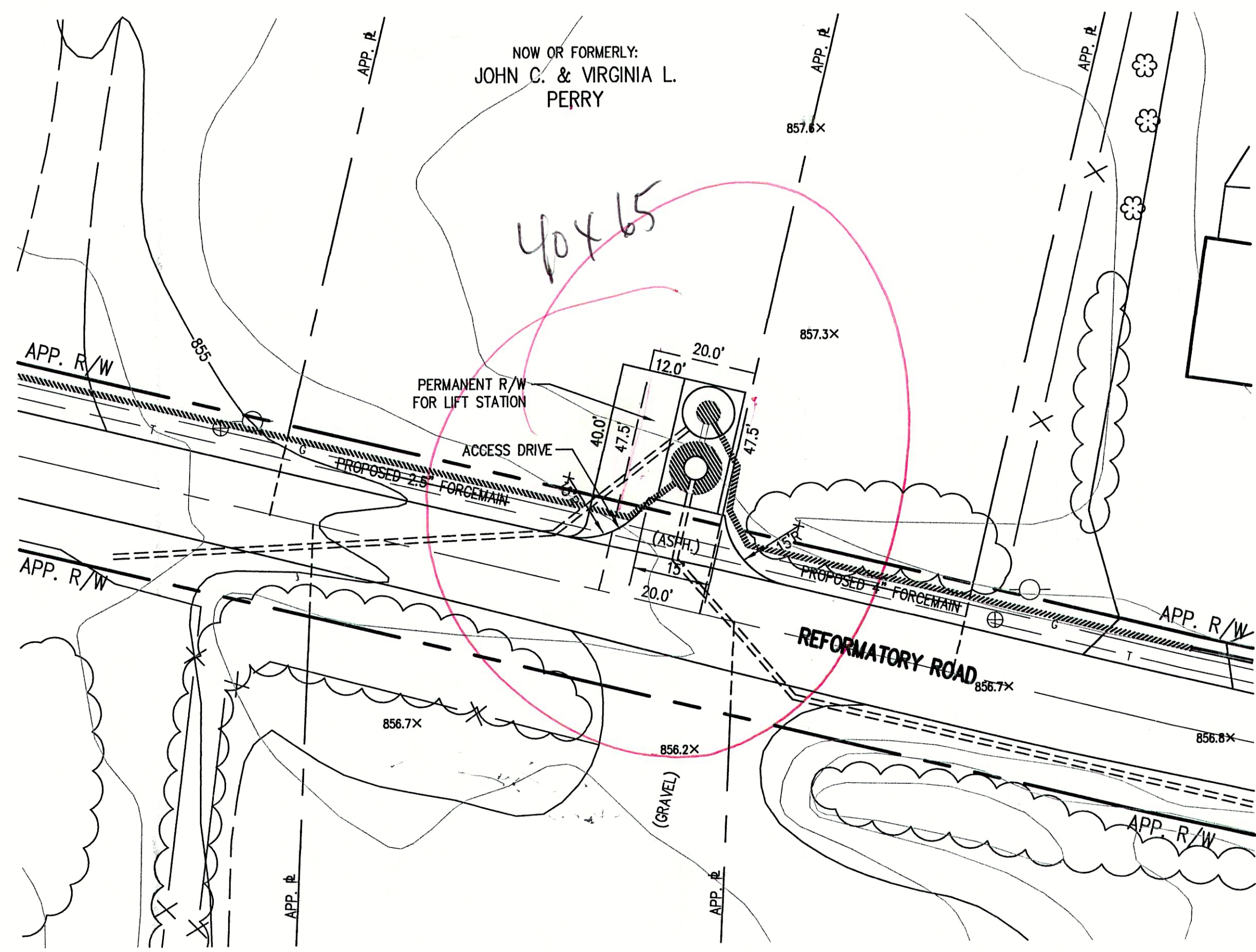


**TRIAD**  
**ASSOCIATES**  
**INC.**  
INDIANAPOLIS, INDIANA

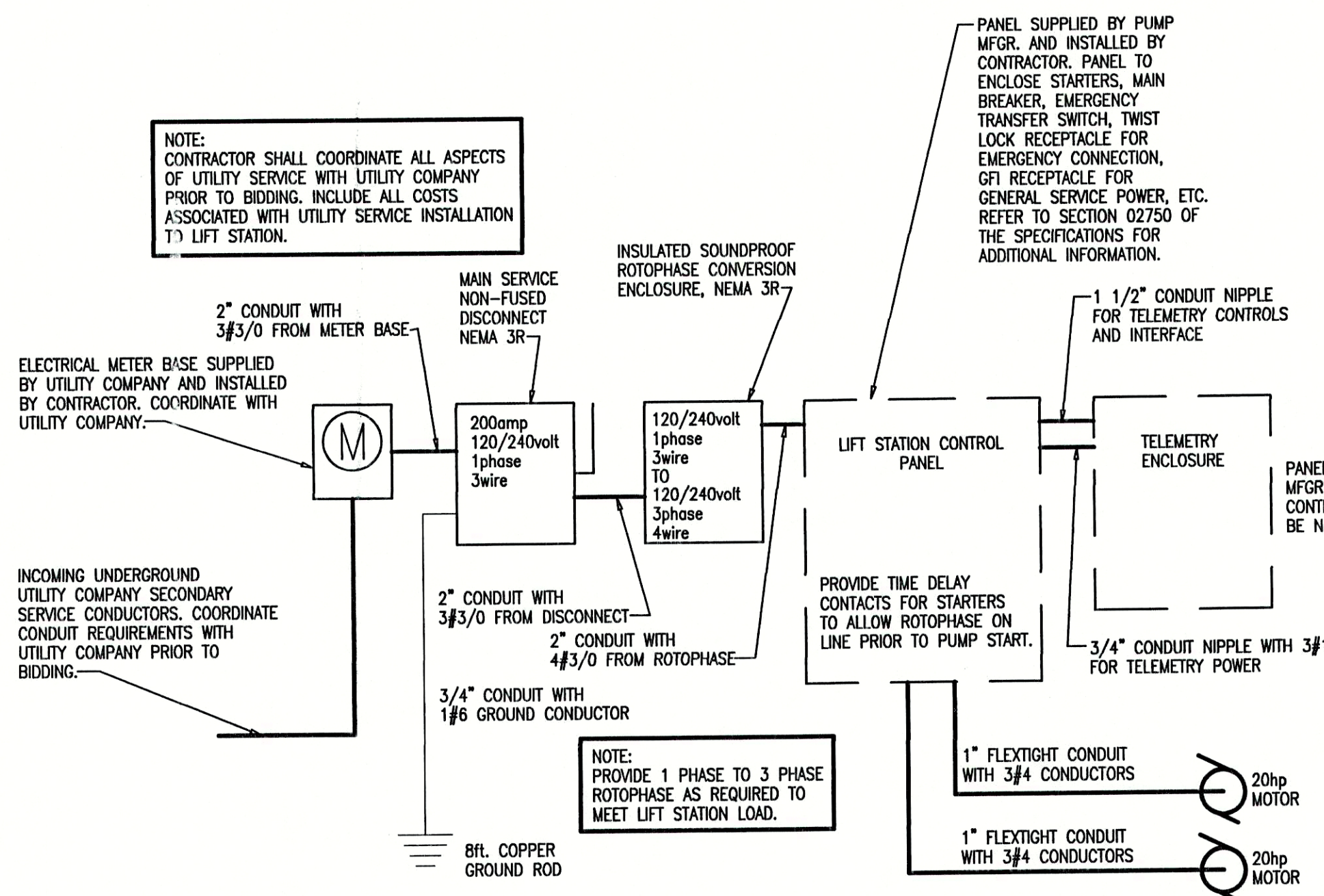


SUNVIEW, ALFONT, REFORMATORY ROAD FALL CREEK REGIONAL WASTE DISTRICT			
LIFT STATION DETAIL			
DRAWN BY: <div style="border: 1px solid black; padding: 2px; text-align: center;">DAP</div>	DATE <div style="border: 1px solid black; padding: 2px; text-align: center;">4/12/98</div>	PROJECT No. <div style="border: 1px solid black; padding: 2px; text-align: center;">98008A</div>	SHEET No. <div style="border: 1px solid black; padding: 2px; text-align: center; font-size: 24pt;">28</div>
SCALE <div style="border: 1px solid black; padding: 2px; text-align: center;">AS NOTED</div>		DESIGNED BY: <div style="border: 1px solid black; padding: 2px; text-align: center;">D.A. Pauling</div>	
CHECKED BY: <div style="border: 1px solid black; padding: 2px; text-align: center;">James W. Frazzell, P.E.</div>		OF <div style="border: 1px solid black; padding: 2px; text-align: center; font-size: 24pt;">33</div>	

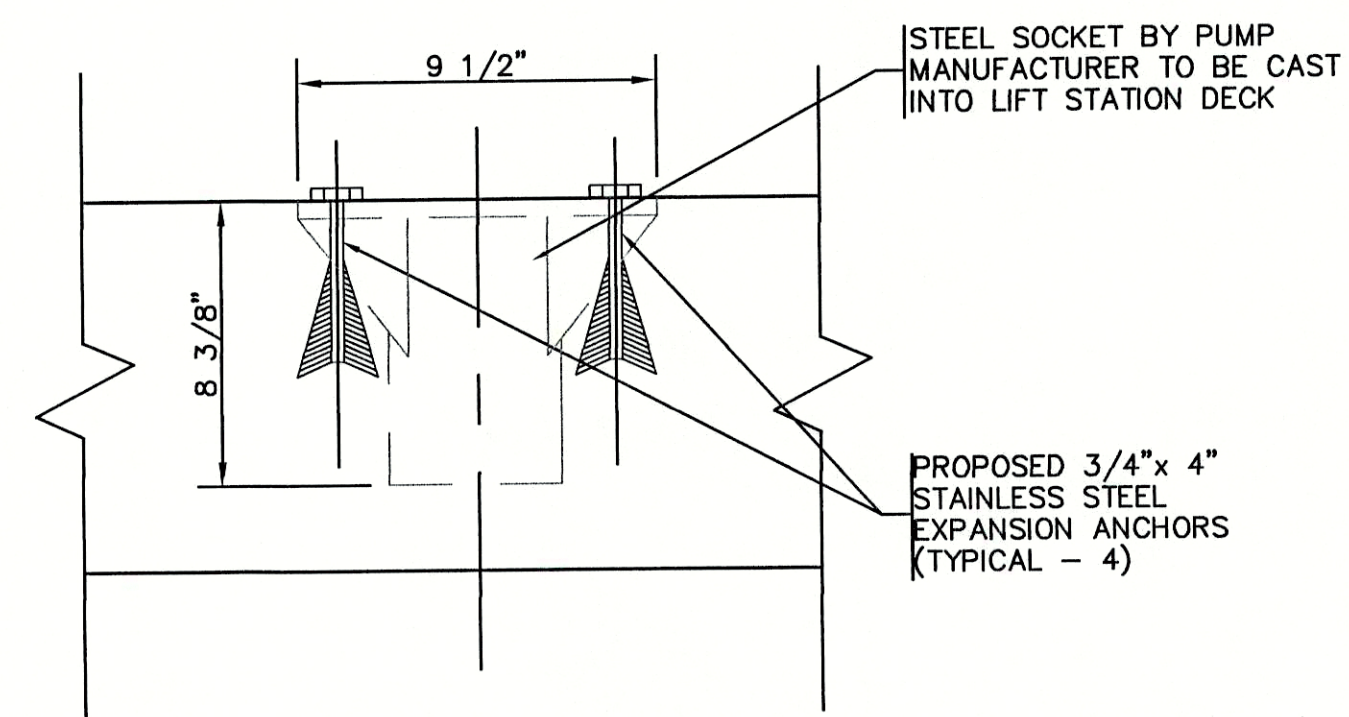




1 LIFT STATION PLAN VIEW  
SCALE: N.T.S.



ELECTRICAL POWER  
RISER DIAGRAM  
SCALE: N.T.S.



0 PORTABLE HOIST SLAB SOCKET DETAIL  
SCALE: N.T.S.

# RECORD DRAWING

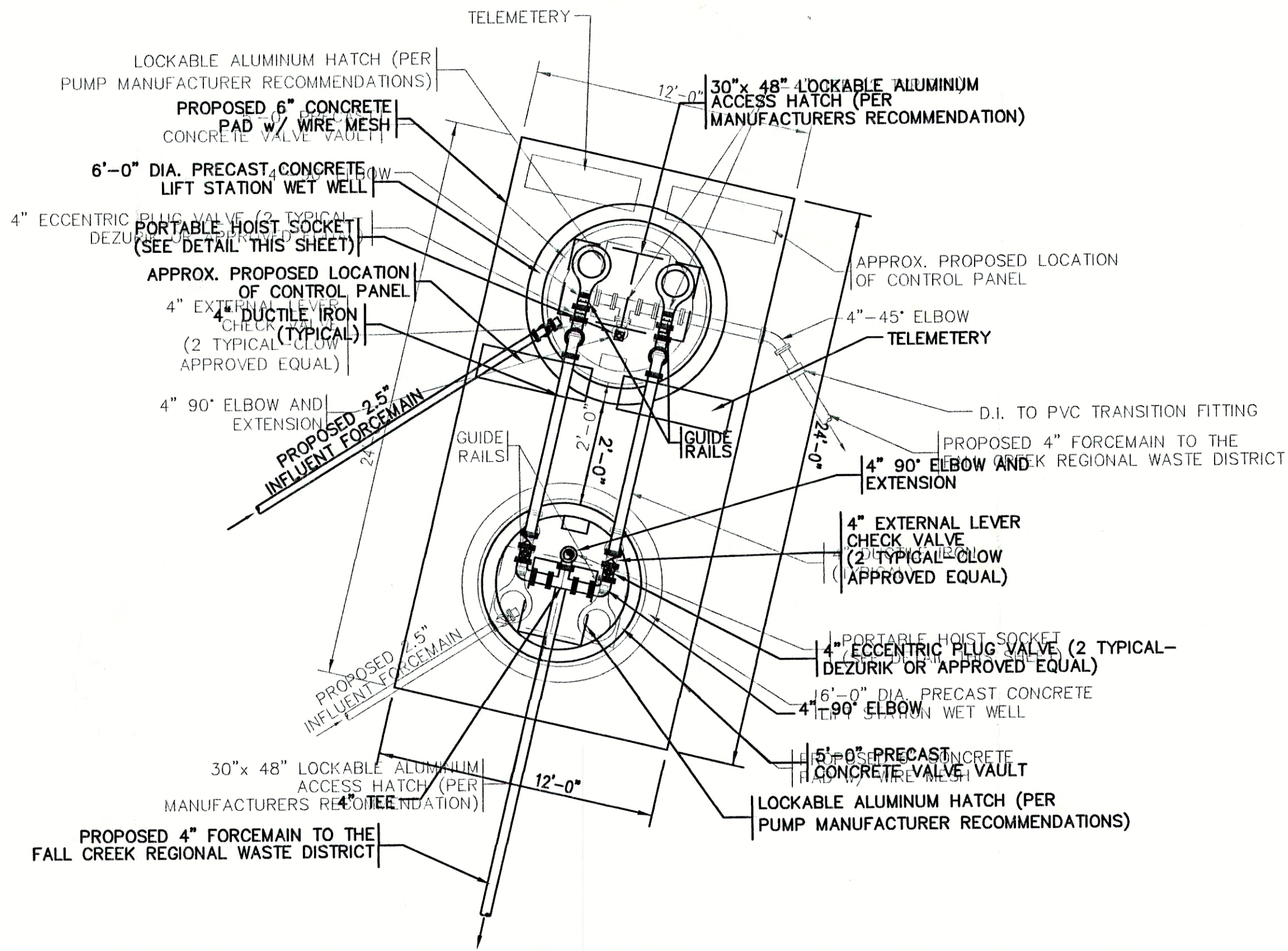
August 23, 2001

## LIFT STATION PUMP TABLE

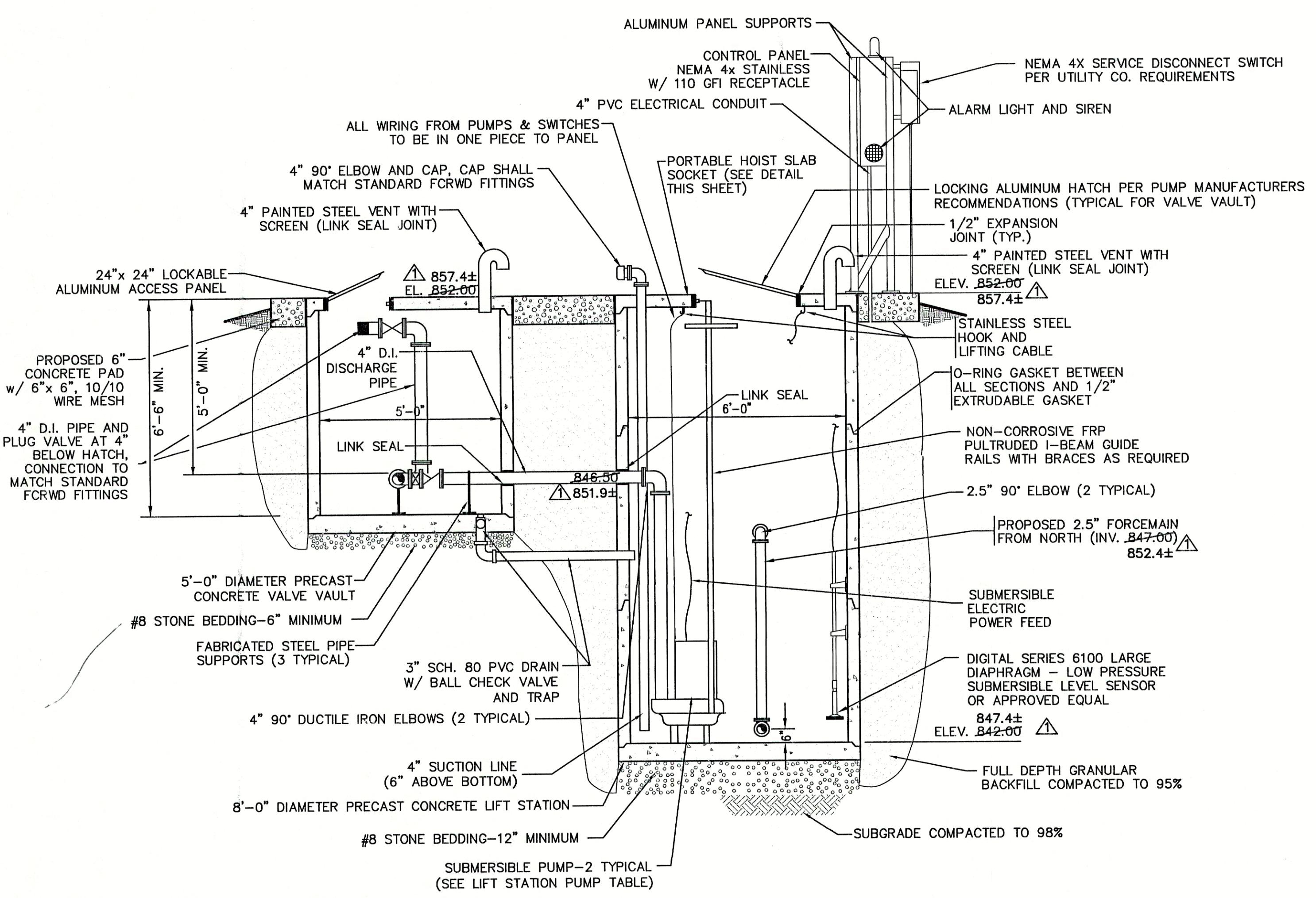
PUMP DATA TABLE	
CAPACITY	100 GPM
TDH	65 FEET
HP(min.)	15
RPM	1750
VOLTAGE	230/460
PHASE	3
TYPE	NON-CLOG
DISCHARGE	4"

TRANSDUCER SET POINTS	
FLOAT FUNCTION	ELEVATION
PUMPS OFF	842.83
LEAD PUMP ON	846.76
ALARM	848.26
LAG PUMP ON	847.76

- GENERAL NOTES:
- CONTRACTOR TO VERIFY AVAILABLE POWER SOURCE PRIOR TO EQUIPMENT ORDER AND COORDINATE WORK WITH ELECTRIC UTILITY COMPANY.
  - PIPE PENETRATIONS TO UTILIZE FLEXIBLE BOOTS, CONNECTORS, CAST IN PLACE GASKETS, ETC. APPROVED BY ENGINEER PRIOR TO CONSTRUCTION.
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  - REFER TO SPECIFICATIONS FOR FURTHER INFORMATION.
  - ALL CONCRETE TO BE MINIMUM F'c = 4000 psi. ALL REINFORCING STEEL TO BE MINIMUM Fy = 60,000 psi.
  - ALL FERROUS METAL SURFACES TO BE PREPARED AND PAINTED.
  - CONTRACTOR TO COORDINATE WITH ALL OTHER APPLICABLE PLAN SHEETS AND SPECIFICATIONS.
  - 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.
  - CONCRETE STRUCTURE BELOW GRADE SHALL BE COATED WITH A BITUMINOUS COATING PER SPECIFICATIONS.



0 LIFT STATION PLAN VIEW  
SCALE: N.T.S.



0 LIFT STATION SECTION  
SCALE: N.T.S.

FILE NAME: REF_LSI REV-RD	PLOT SCALE: 1=1	PLOT DATE: 11/20
2/22/00	REVISED ELEVATIONS @ DETAIL	D.A.P.
NO.	DATE	DESCRIPTION
BY		

**TRIAD ASSOCIATES INC.**  
INDIANAPOLIS, INDIANA

APPROVED BY:  
THOMAS M. SCHUBERT  
REGISTERED PROFESSIONAL ENGINEER  
No. 15614  
STATE OF INDIANA

SUNVIEW, ALFONT, REFORMATORY ROAD  
FALL CREEK REGIONAL WASTE DISTRICT

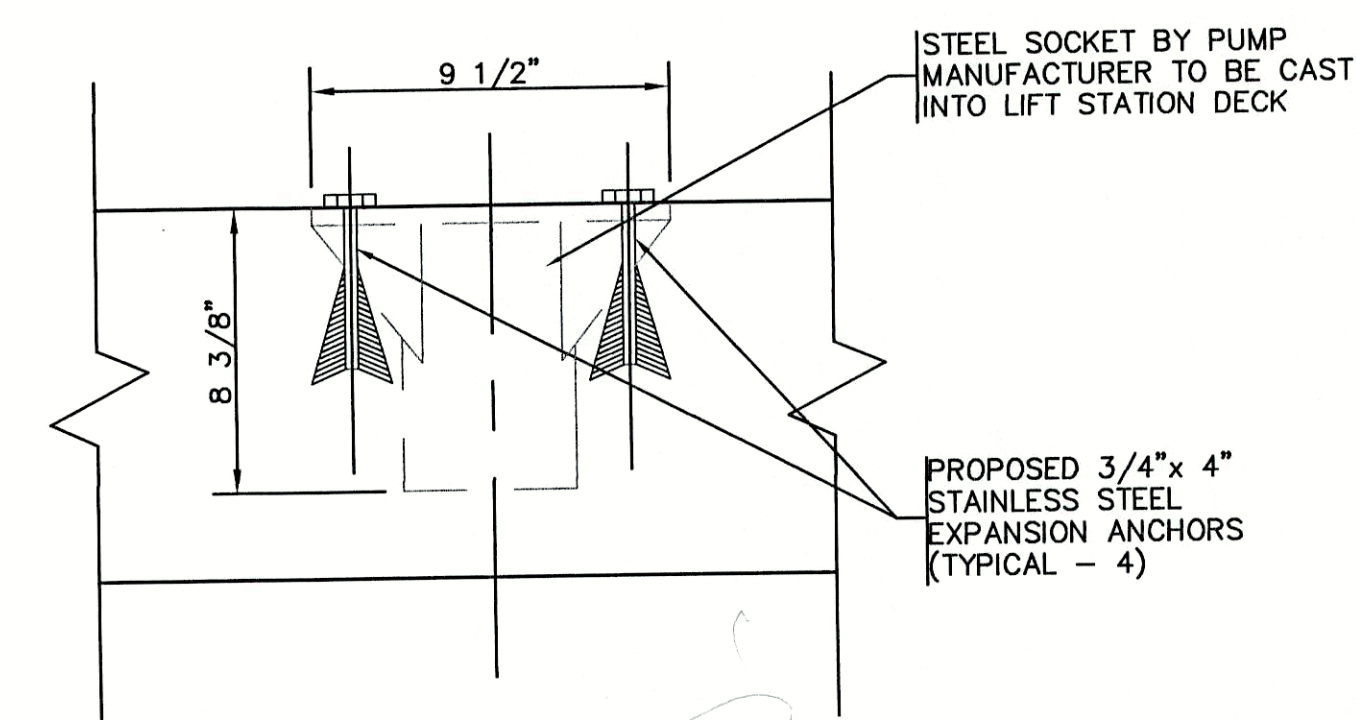
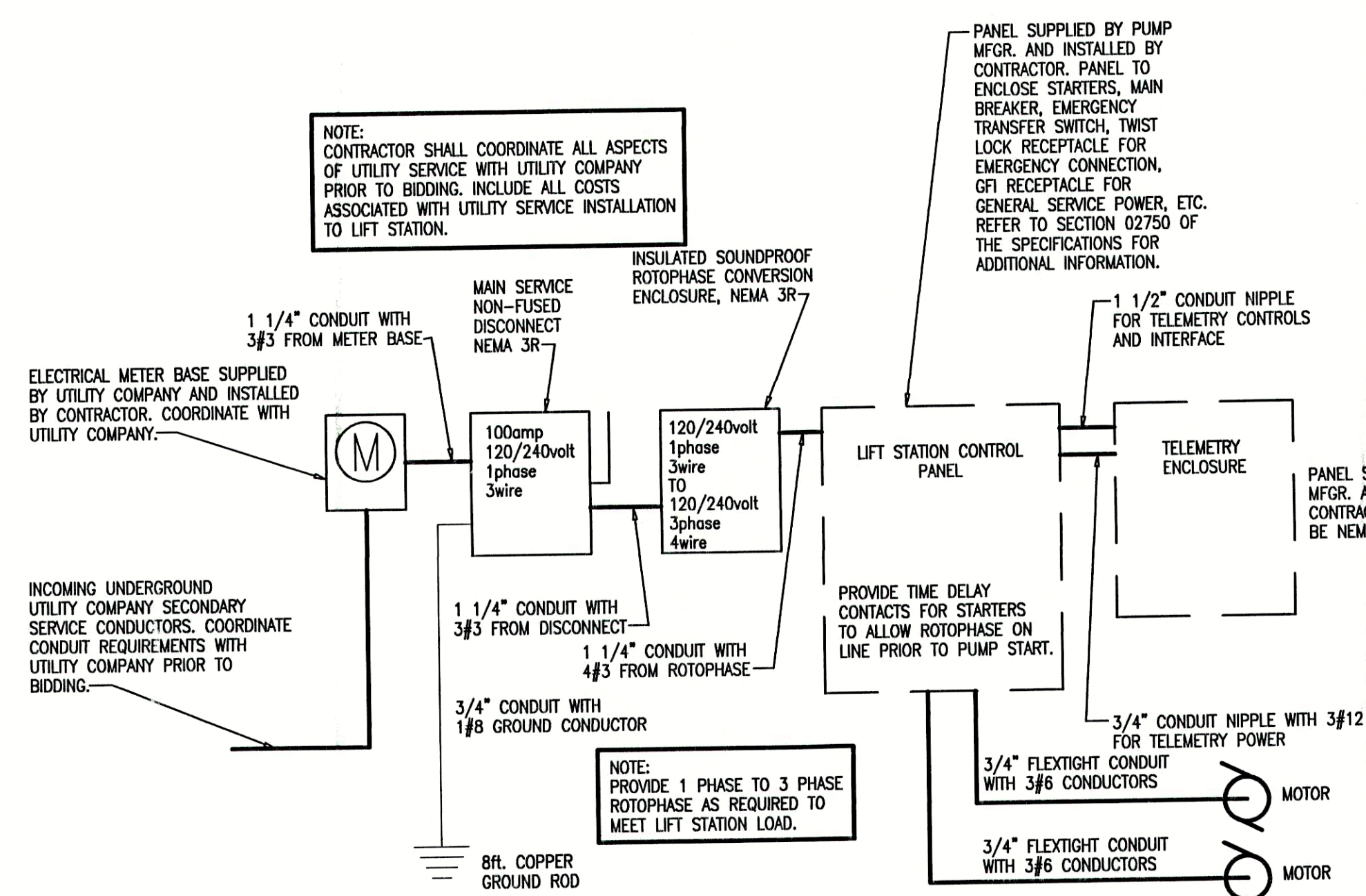
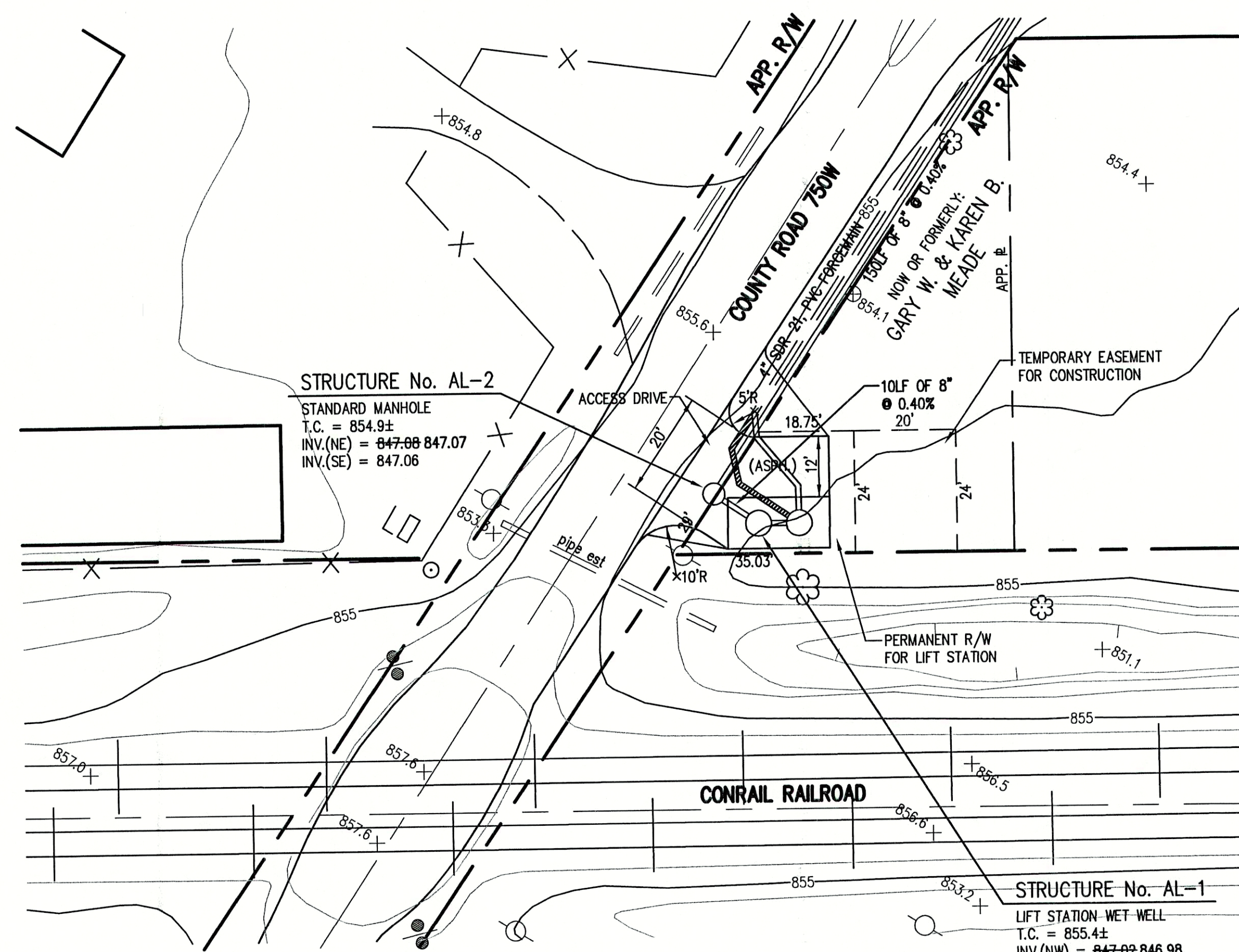
LIFT STATION DETAIL

DRAWN BY: DATE 4/12/98 PROJECT No. 98008A SHEET No. 29

DESIGNED BY: D.A. Pauling

CHECKED BY: James W. Frazell, P.E.



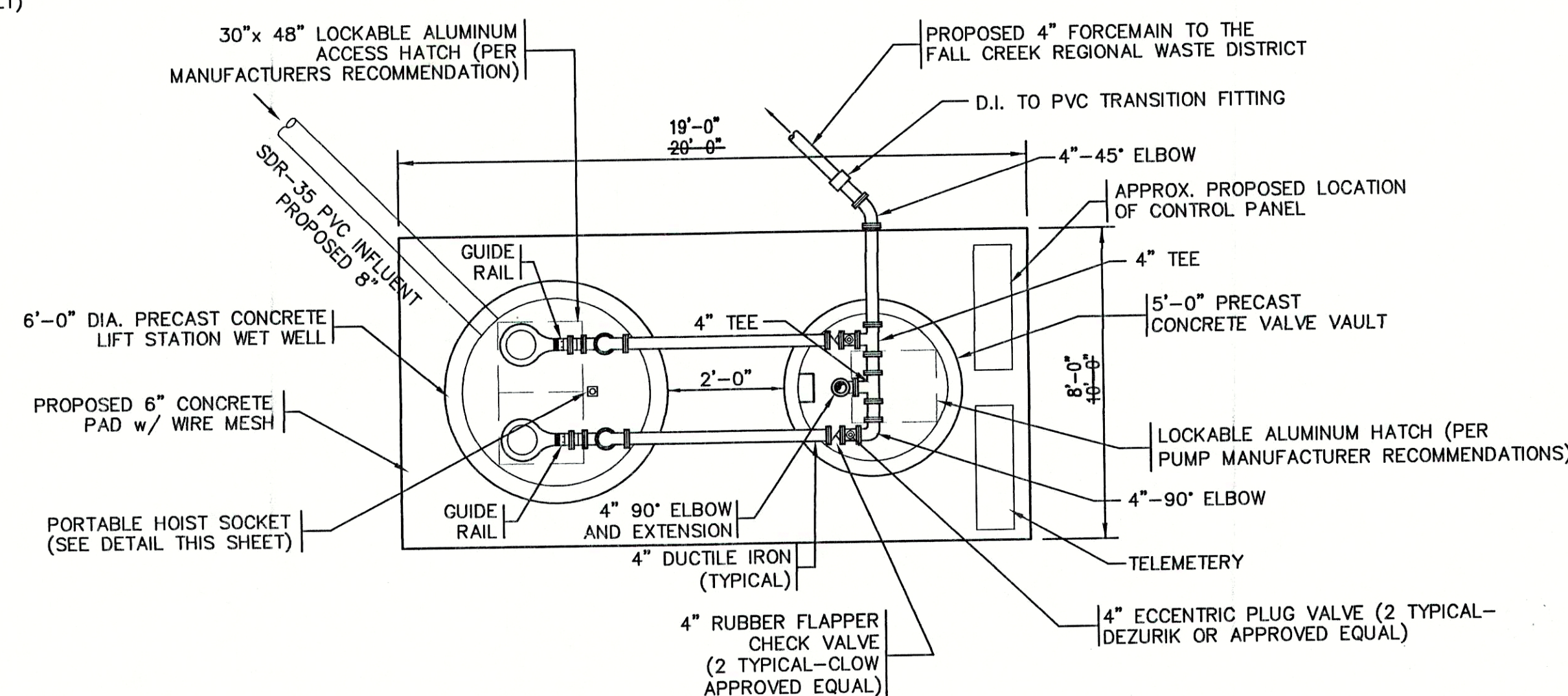
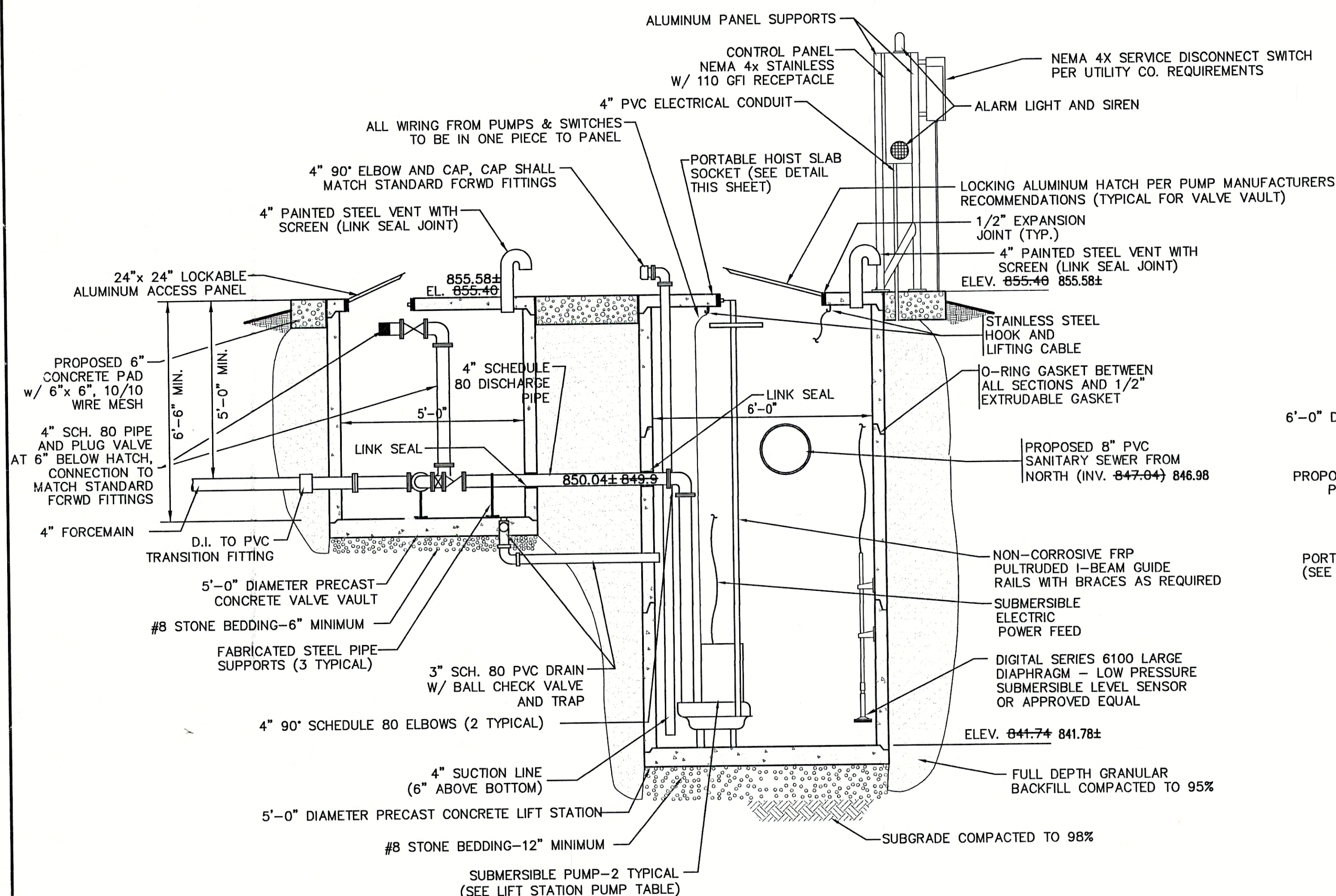


## LIFT STATION PUMP TABLE

CAPACITY	100 GPM
TDH	67 FEET
HP(min.)	5
RPM	1750
VOLTAGE	230/460
PHASE	3
TYPE	NON-CLOG
DISCHARGE	4"

#### TRANSDUCER SET POINTS

<u>FLOAT FUNCTION</u>	<u>ELEVATION</u>
PUMPS OFF	842.57
LEAD PUMP ON	845.50
ALARM	847.00
LAG PUMP ON	846.50




FILE NAME: ALF_LSIREV-R1		PLOT SCALE: 1=1	PLOT DATE: 11/20/88
NO.	DATE	DESCRIPTION	BY

**TRIAD**  
**ASSOCIATES**  
**INC.**  
INDIANAPOLIS, INDIANA



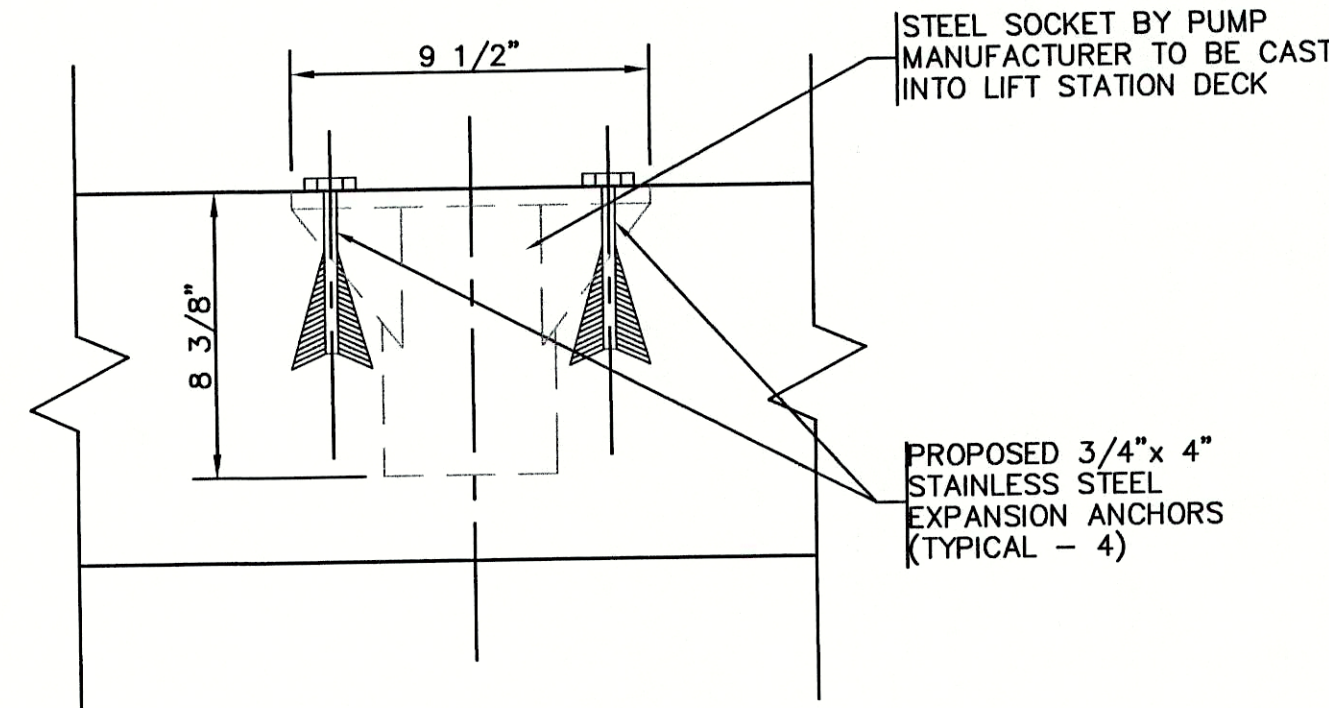
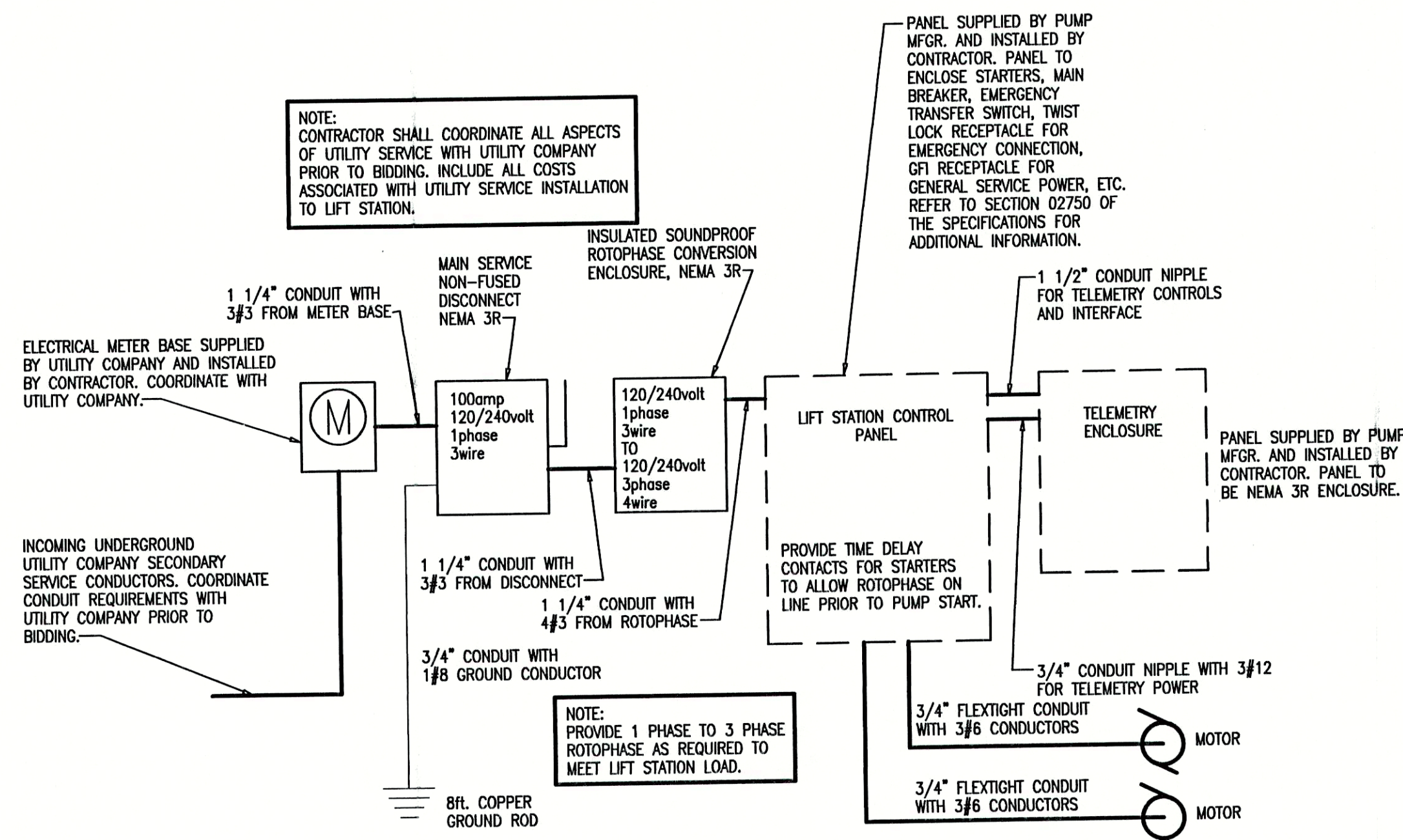
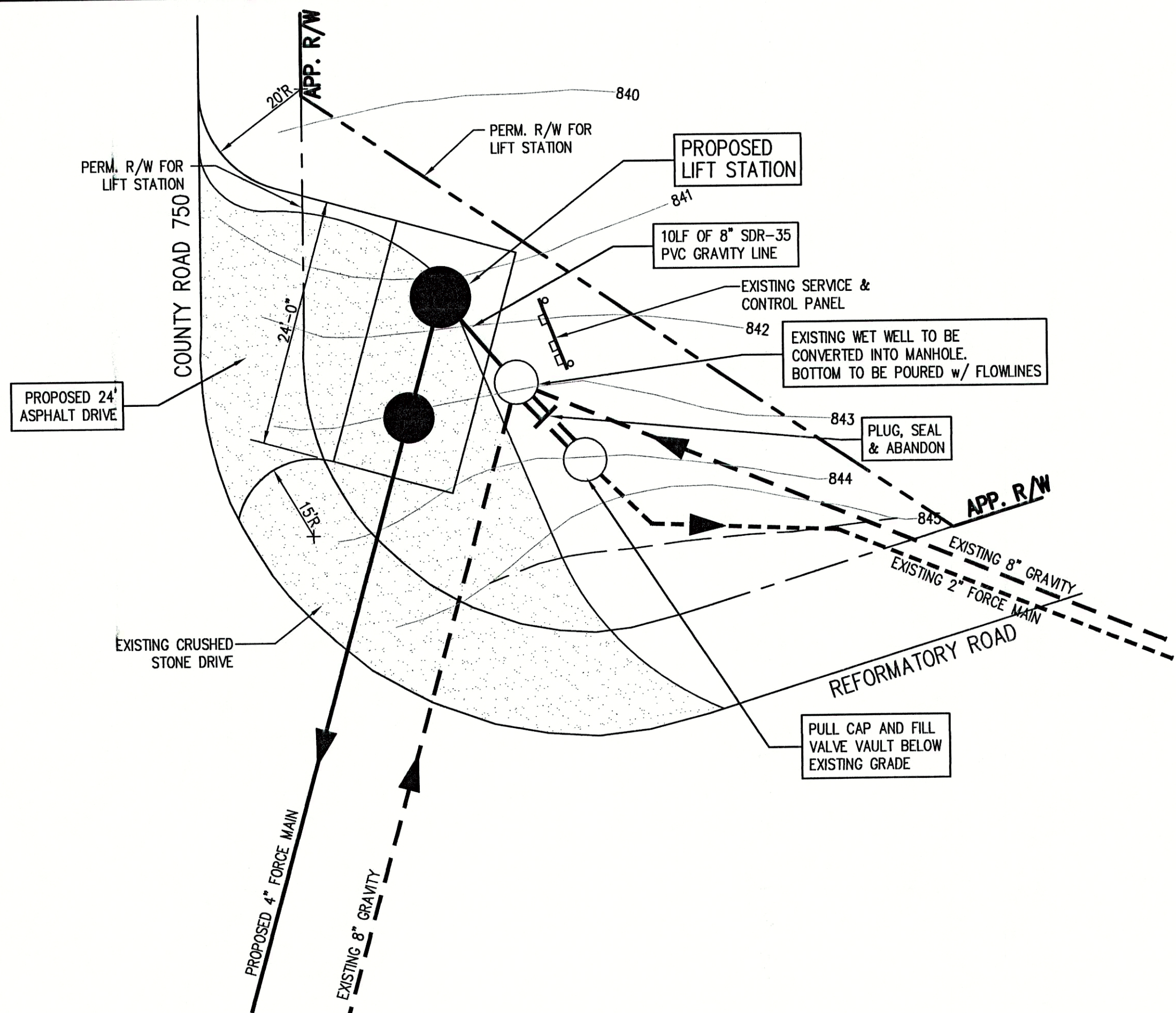
APPROVED BY:



Thomas M. Schubert,

SUNVIEW, ALFONT, AND REFORMATORY ROAD			
FALL CREEK REGIONAL WASTE DISTRICT			
LIFT STATION DETAIL			
DRAWN BY: DAP	DATE 4/12/98	PROJECT No. 98008A	SHEET No. 30
SCALE AS NOTED		33	
DESIGNED BY: D.A. Pauling		33	
CHECKED BY: James W. Frazell, P.E.		OF	





## LIFT STATION PUMP TABLE

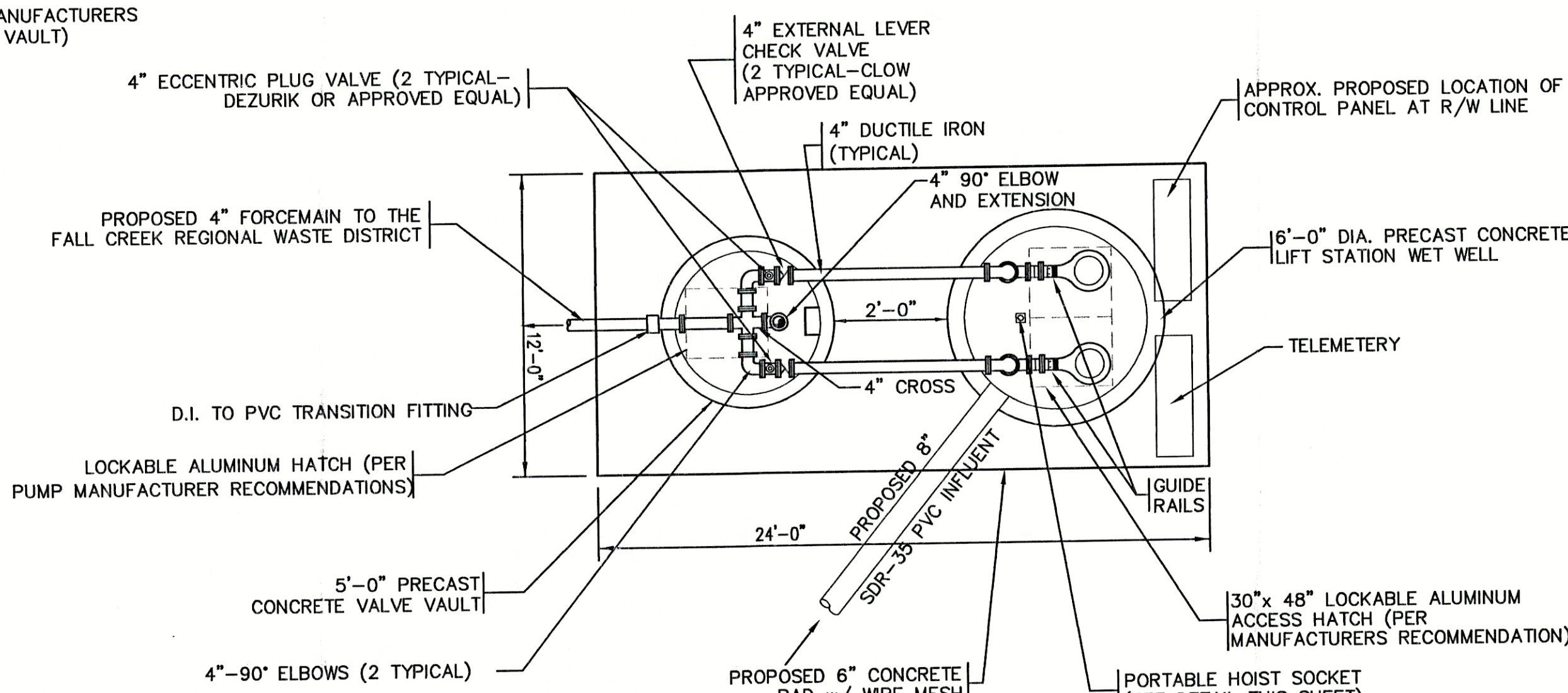
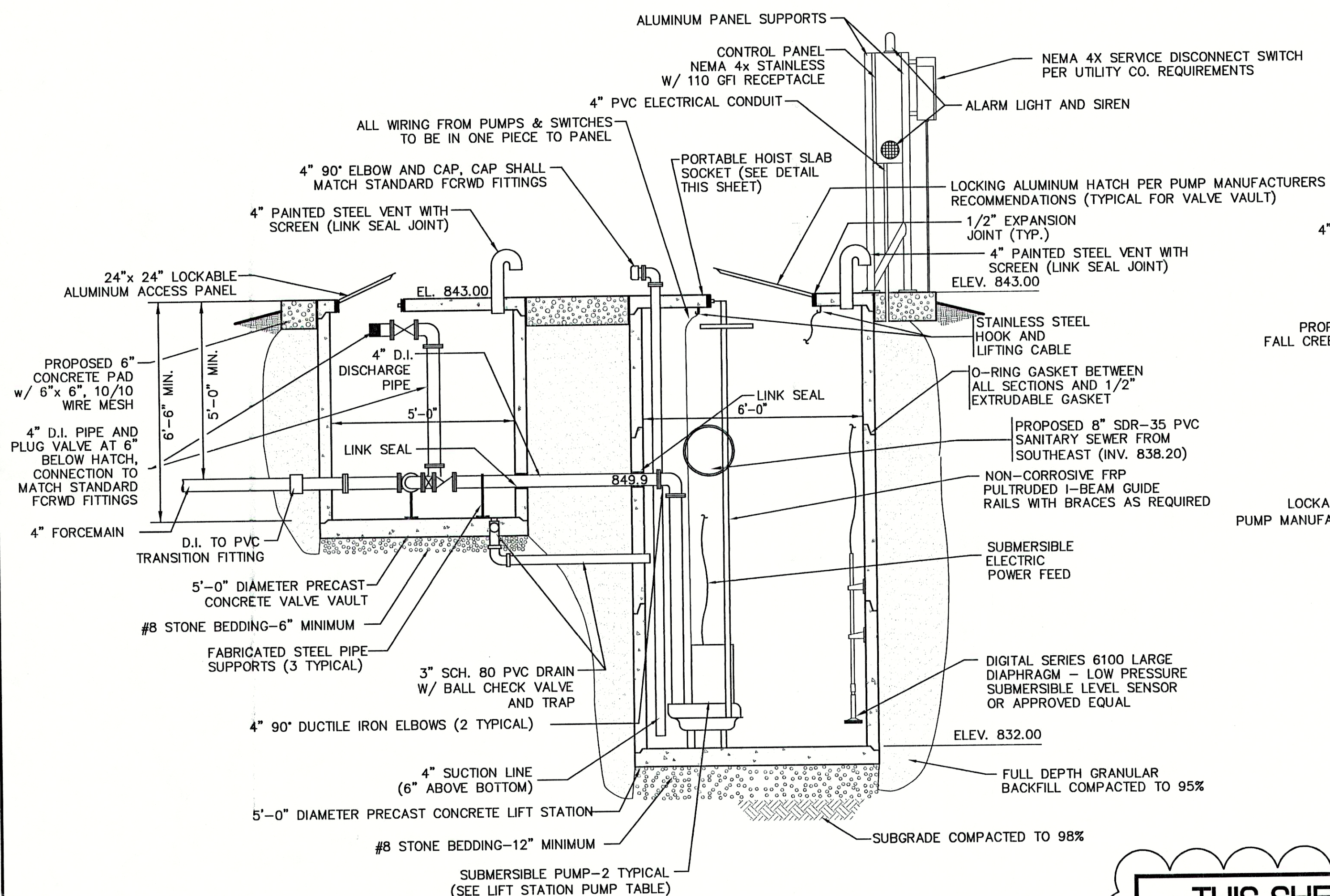
PUMP DATA TABLE	
CAPACITY	100 GPM
TDH	34 FEET
HP(min.)	5
RPM	1150
VOLTAGE	230/460
PHASE	3
TYPE	NON-CLOG
DISCHARGE	4"

## TRANSDUCER SET POINTS

FLOAT FUNCTION	ELEVATION
PUMPS OFF	832.83
LEAD PUMP ON	836.76
ALARM	838.26
LAG PUMP ON	837.76

## GENERAL NOTES:

- CONTRACTOR TO VERIFY AVAILABLE POWER SOURCE PRIOR TO EQUIPMENT ORDER AND COORDINATE WORK WITH ELECTRIC UTILITY COMPANY.
- PIPE PENETRATIONS TO UTILIZE FLEXIBLE BOOTS, CONNECTORS, CAST IN PLACE GASKETS, ETC. APPROVED BY ENGINEER PRIOR TO CONSTRUCTION.
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- REFER TO SPECIFICATIONS FOR FURTHER INFORMATION.
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- CONTRACTOR TO COORDINATE WITH ALL OTHER APPLICABLE PLAN SHEETS AND SPECIFICATIONS.
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- CONCRETE STRUCTURE BELOW GRADE SHALL BE COATED WITH A BITUMINOUS COATING PER SPECIFICATIONS.



THIS SHEET IS TO BE OMITTED FROM CONTRACT

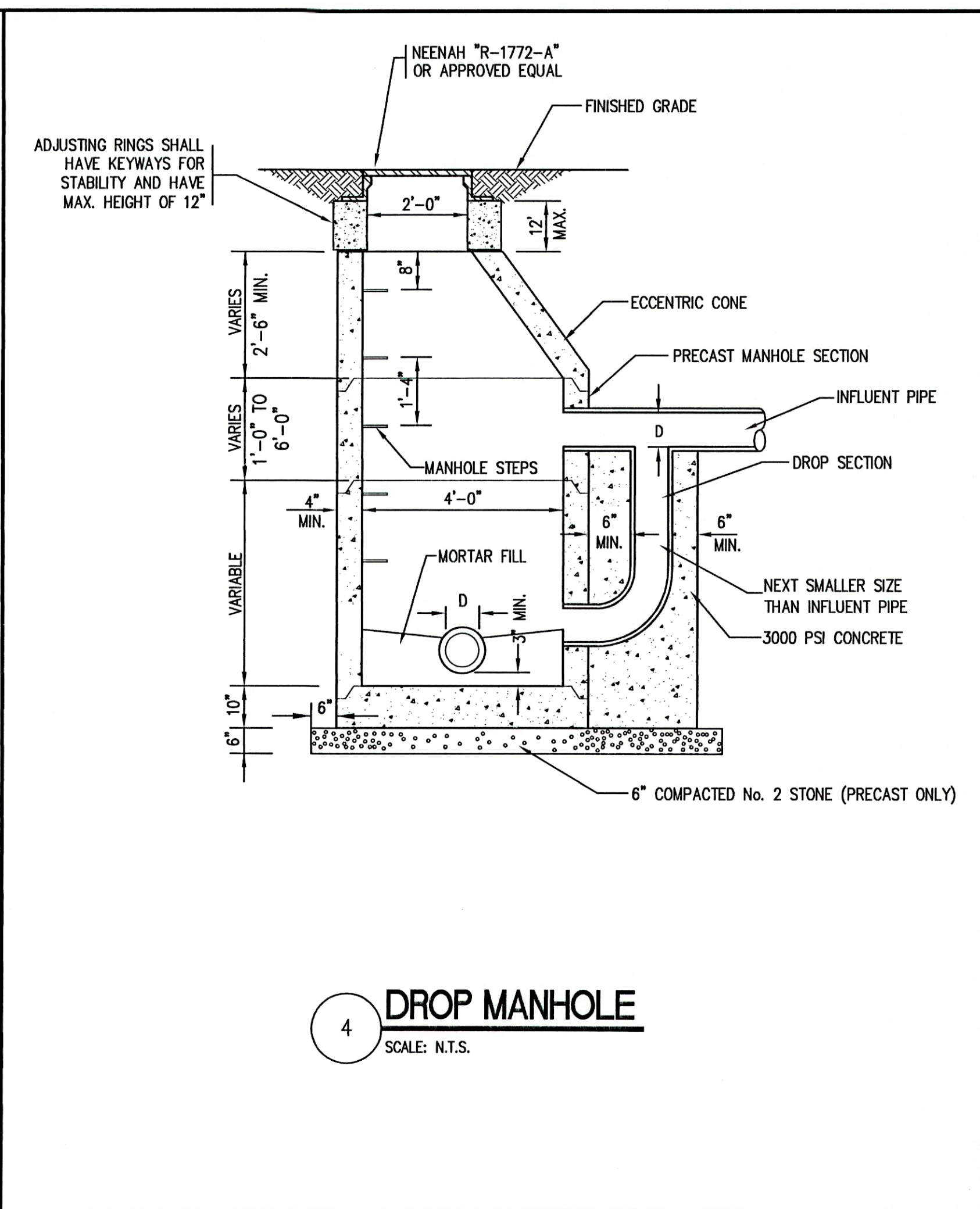
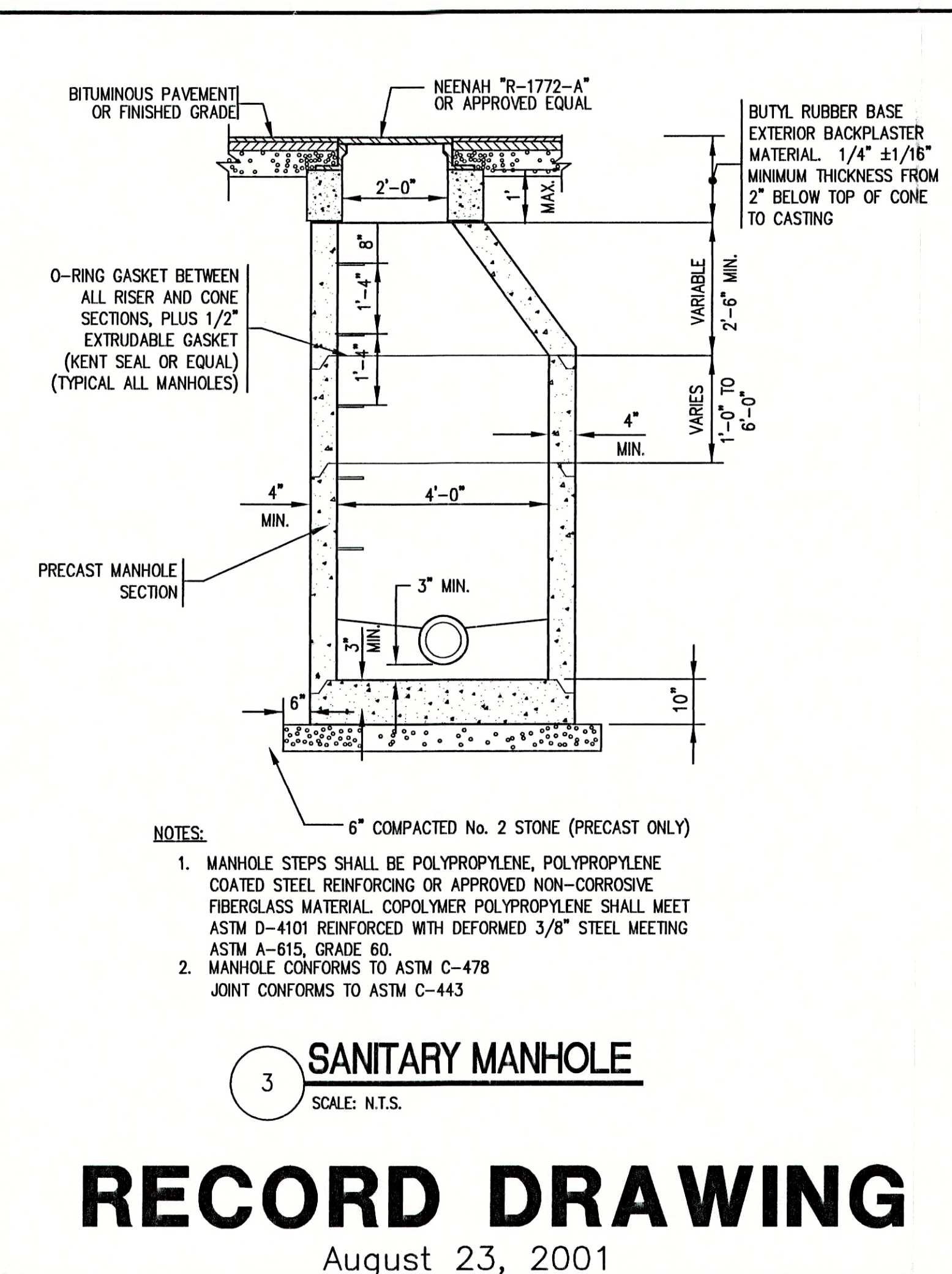
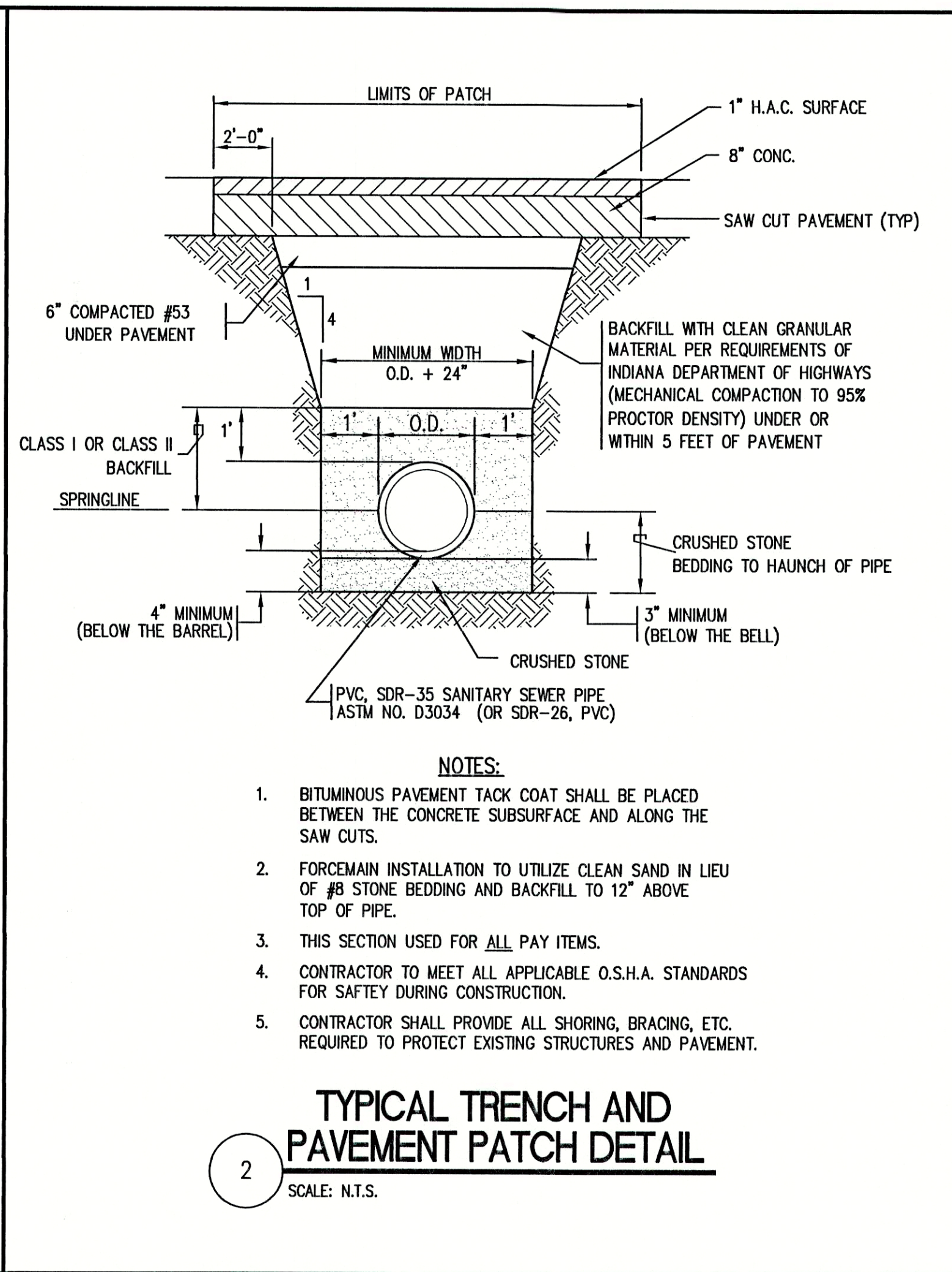
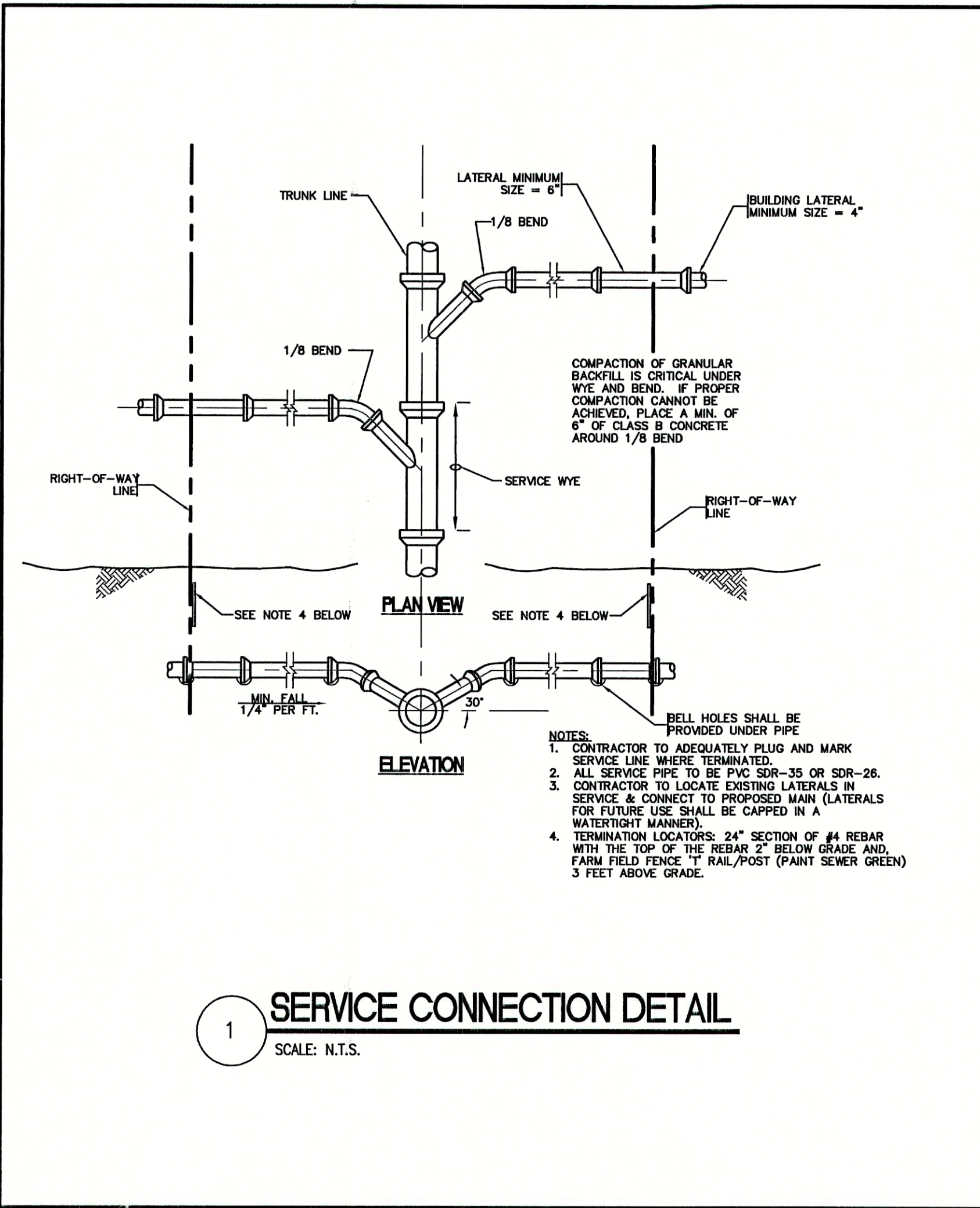
FILE NAME:ALF_LS2REV-RD		PLOT SCALE: 1=1	PLOT DATE: 11/06
NO.	DATE	DESCRIPTION	BY

**TRIAD ASSOCIATES INC.**  
INDIANAPOLIS, INDIANA

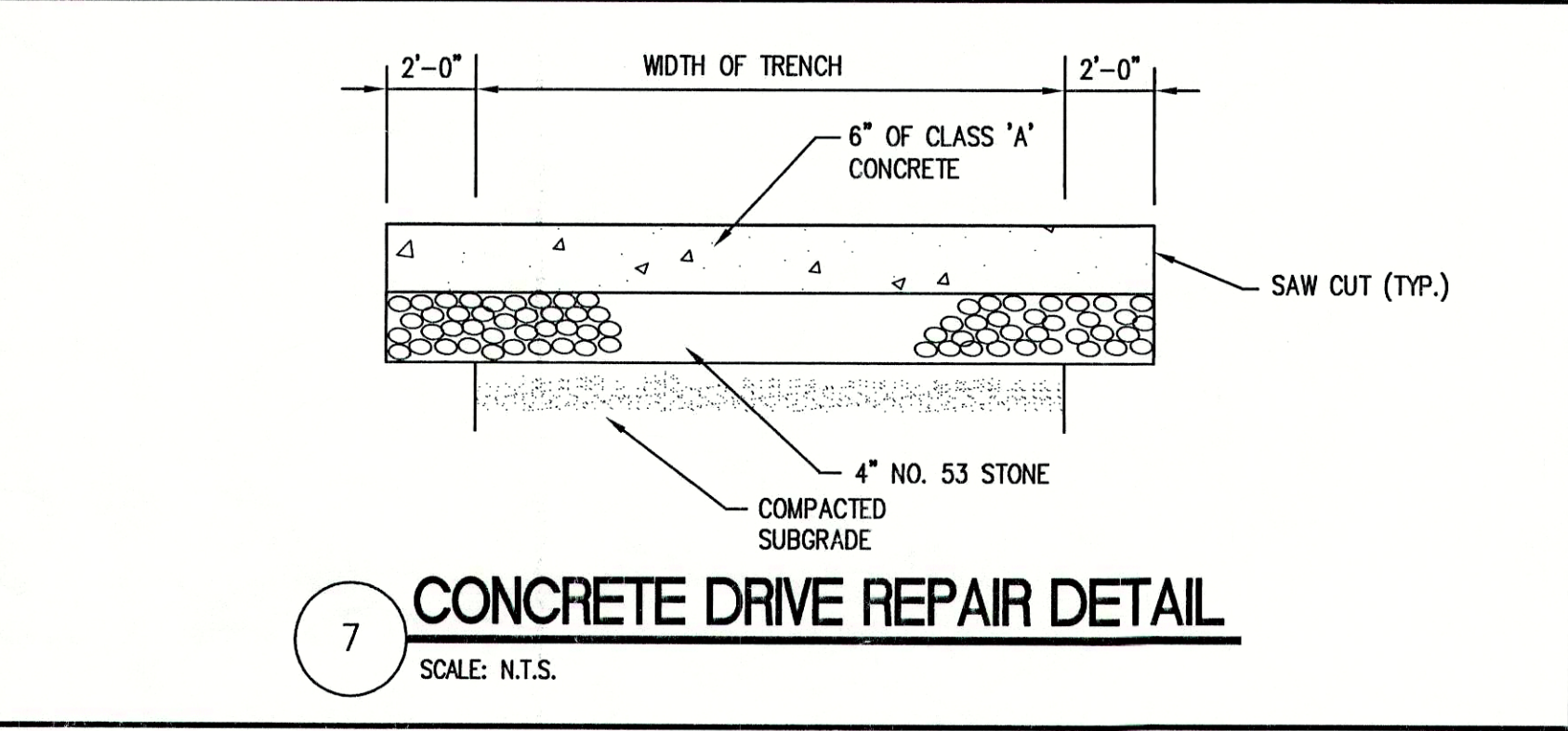
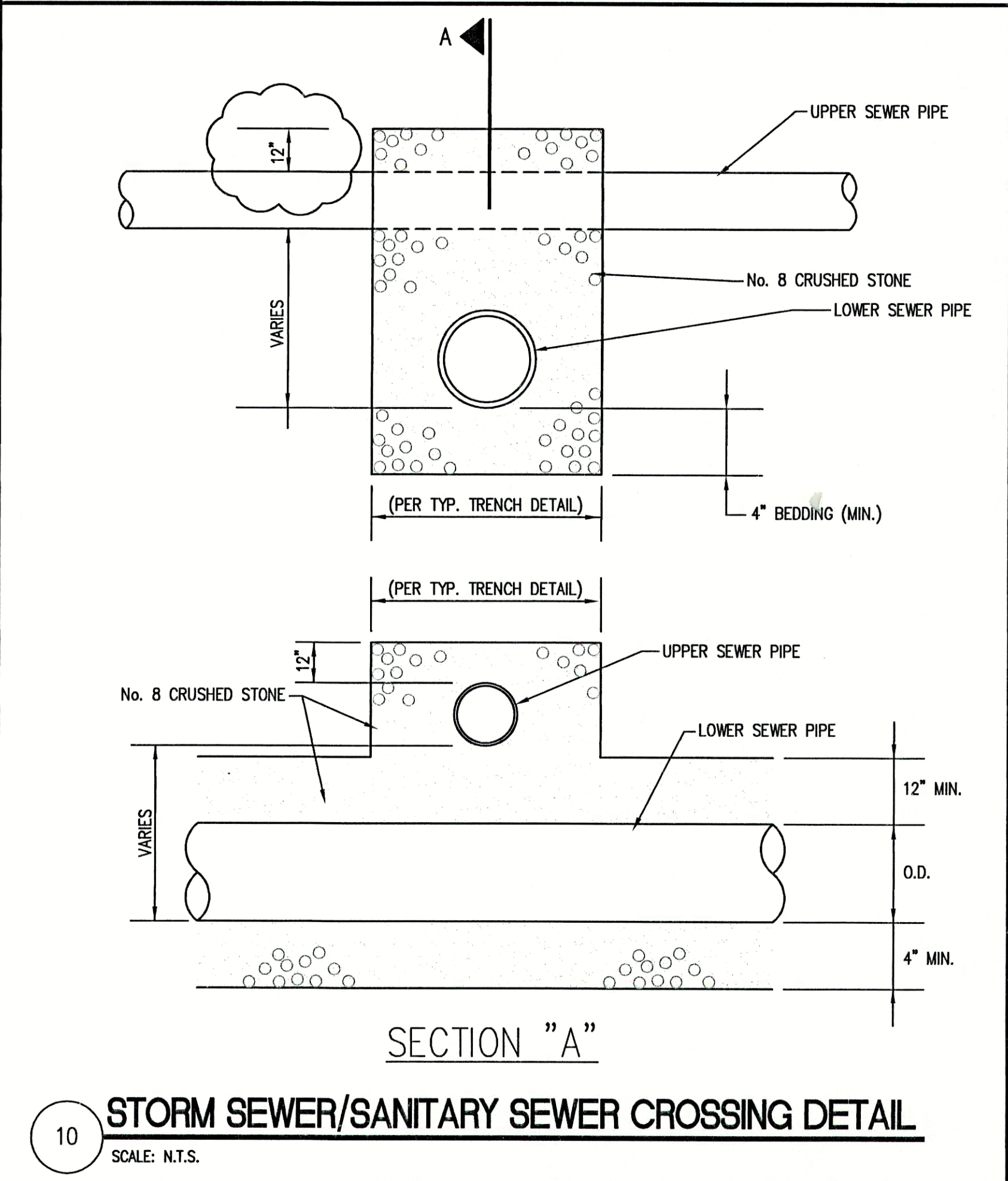
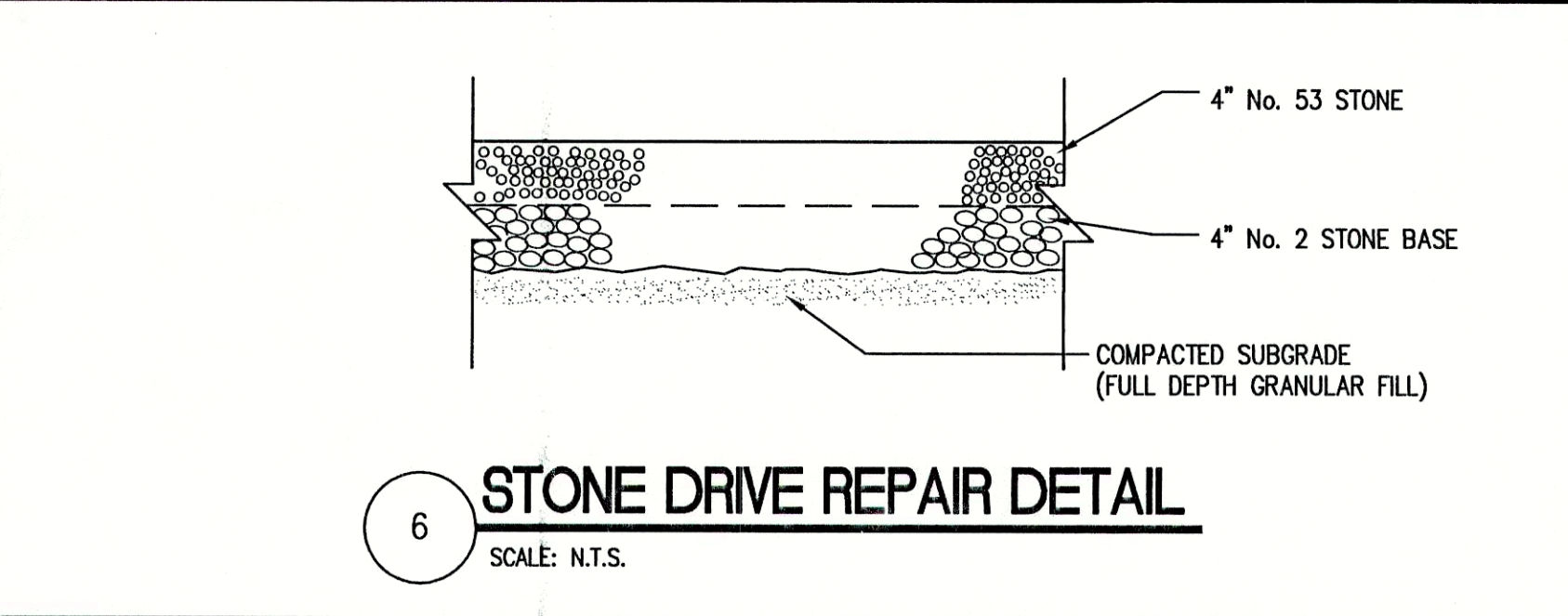
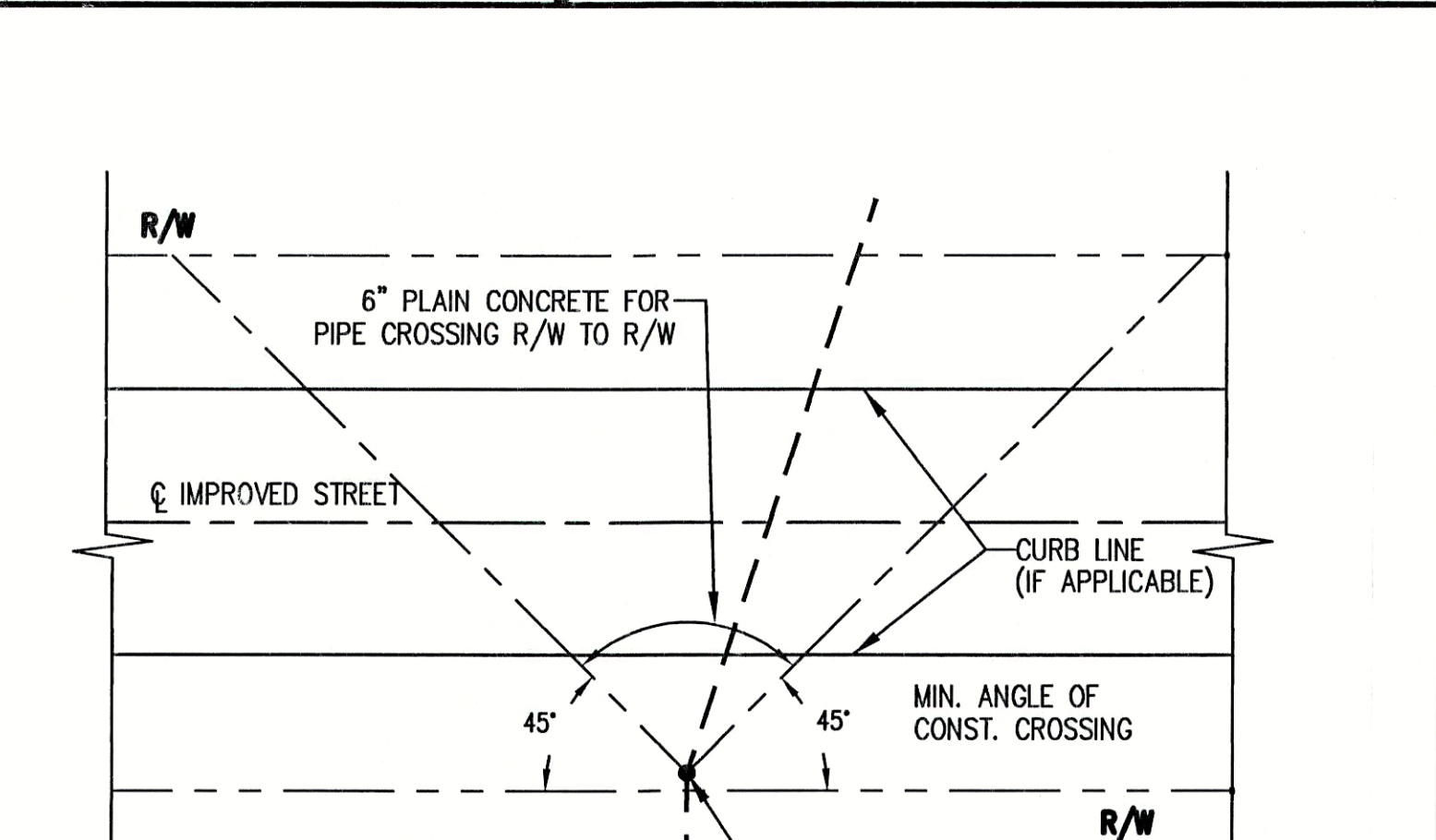
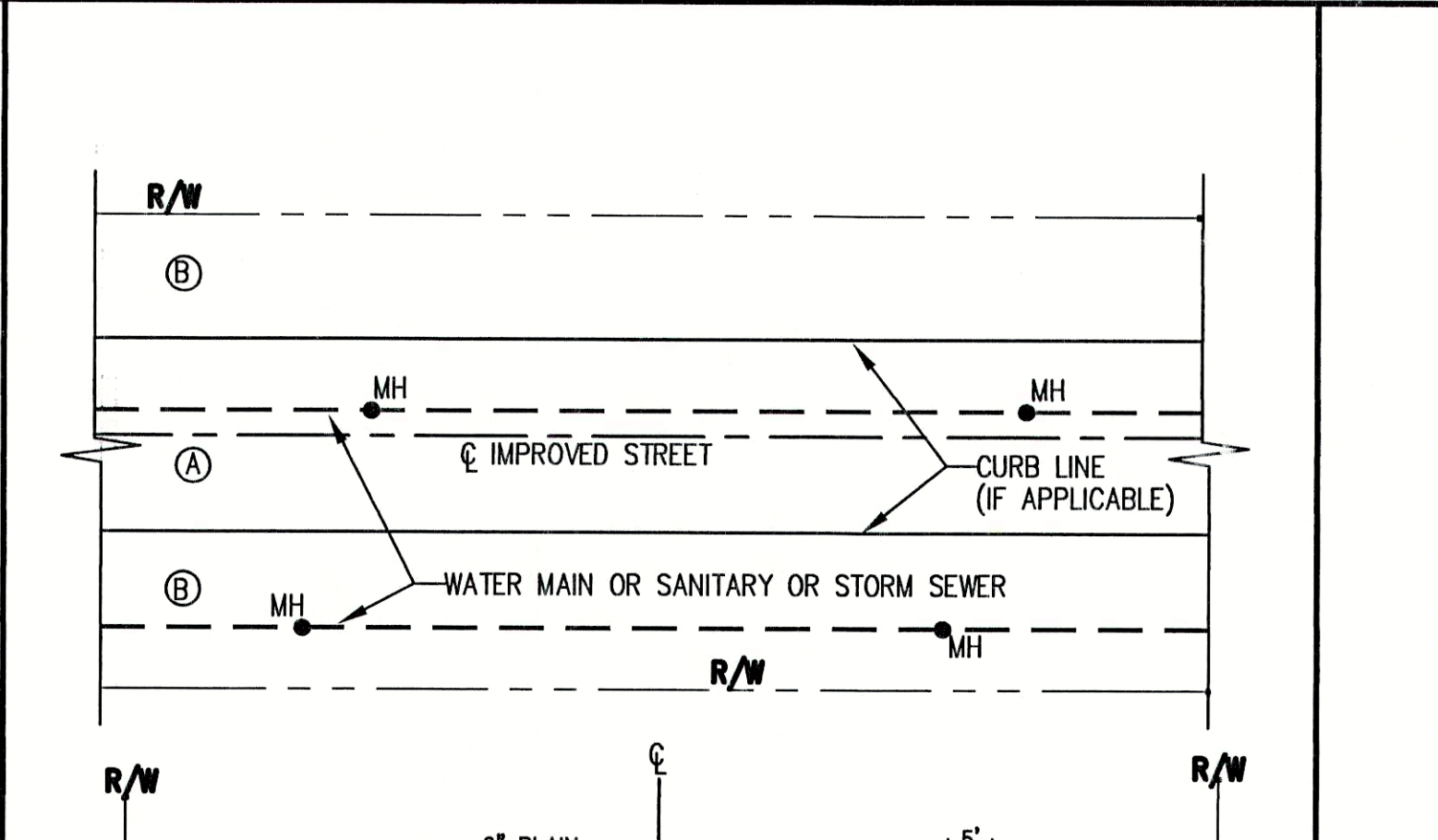
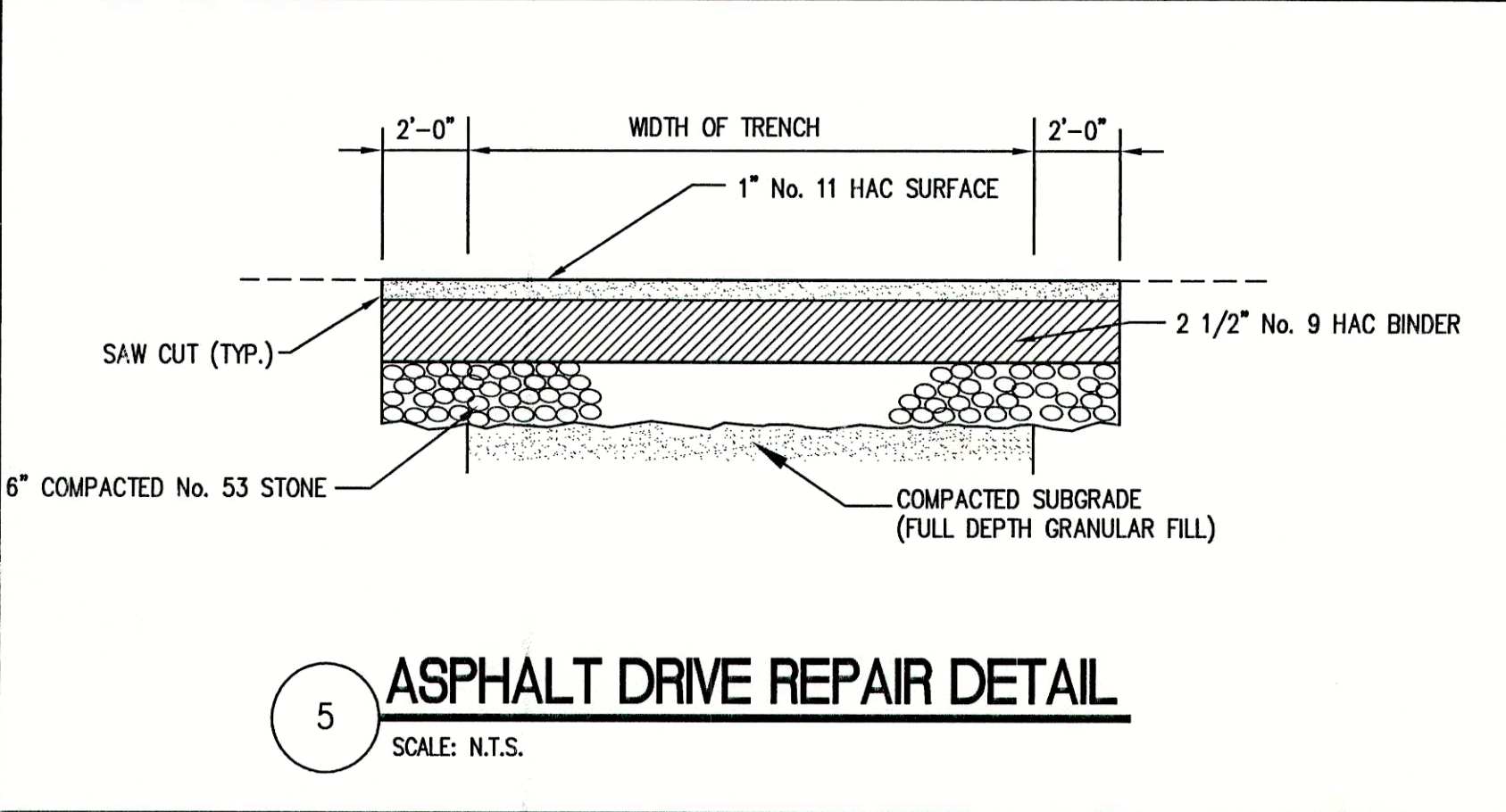
APPROVED BY:  
THOMAS M. SCHUBERT  
No. 15614  
REGISTERED PROFESSIONAL ENGINEER  
Thomas M. Schubert, P.E.

SUNVIEW, ALFONT, AND REFORMATORY ROAD FALL CREEK REGIONAL WASTE DISTRICT			
LIFT STATION DETAIL			
DRAWN BY: DAP	DATE: 4/12/98	PROJECT No. 98008A	SHEET No. 31
DESIGNED BY: D.A. Pauling	SCALE: AS NOTED	CHECKED BY: James W. Frazell, P.E.	OF 33





# **RECORD DRAWING** August 23, 2001

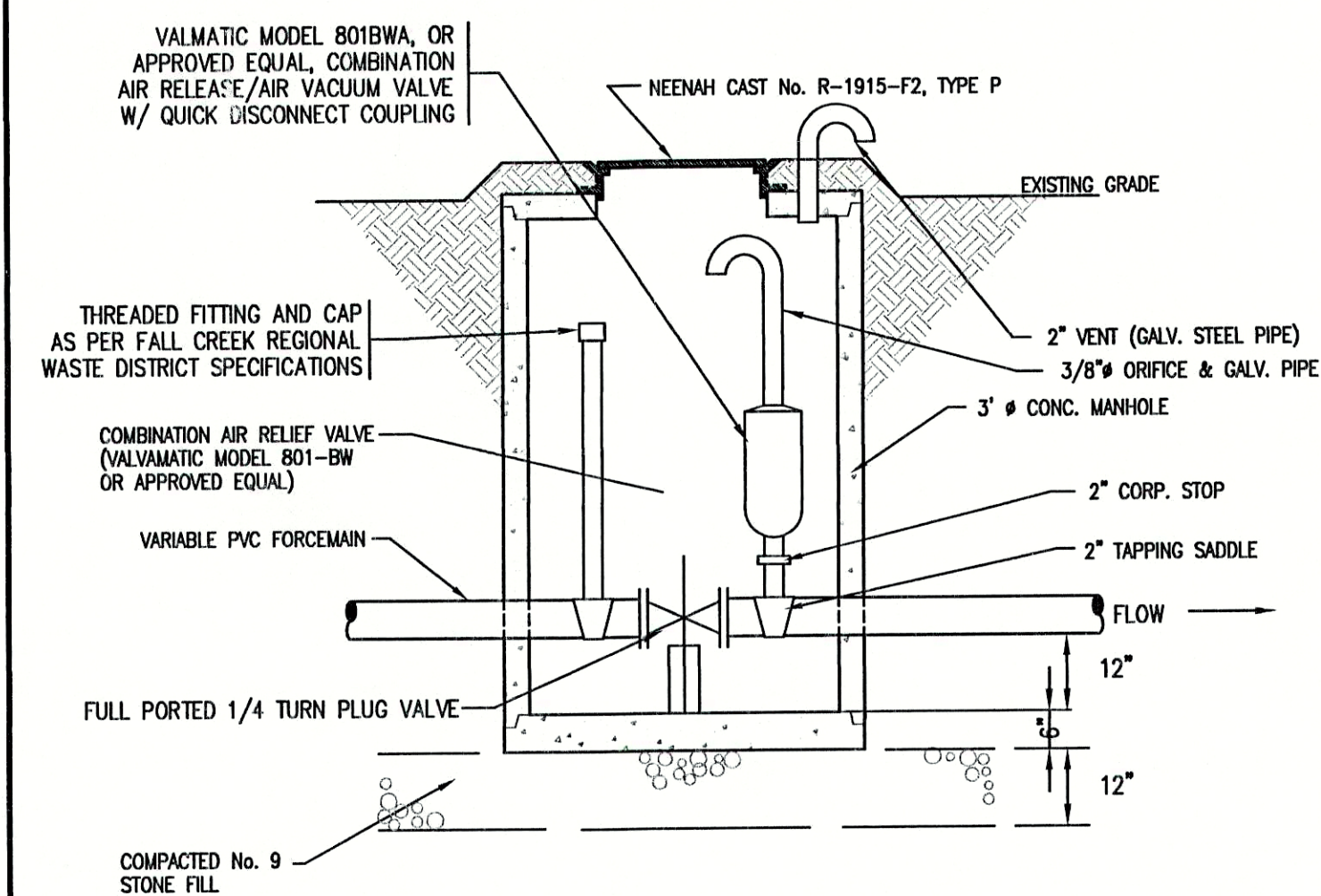
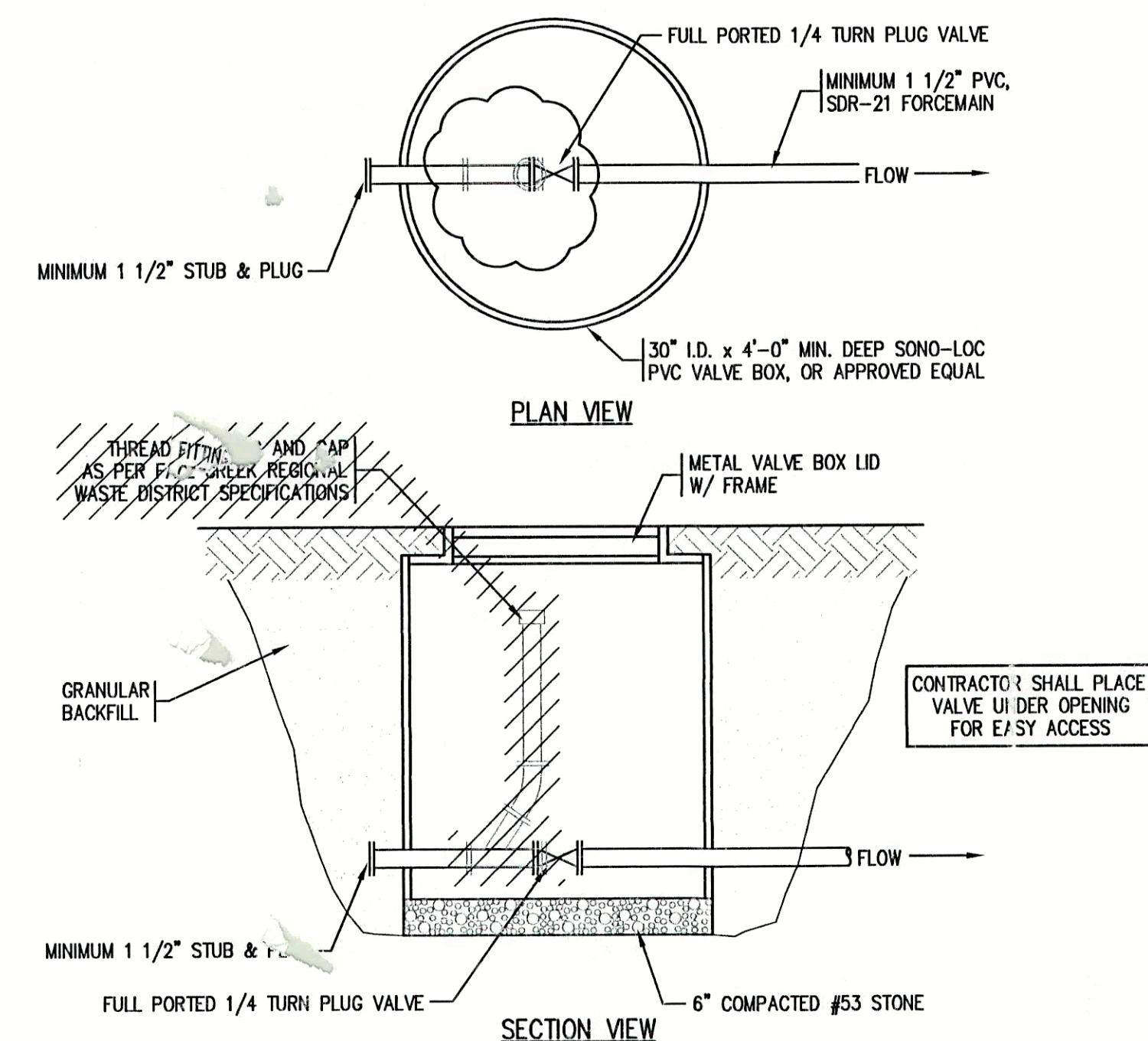


FILE NAME: SUN_DETIR-RD PLOT SCALE: 1=1 PLOT DATE: 11/06				<b>TRIAD ASSOCIATES INC.</b> INDIANAPOLIS, INDIANA		APPROVED BY:  Thomas M. Schubert, P.E.	SUNVIEW, ALFONT, REFORMATORY ROAD		PROJECT No. 98008A SHEET No. 32 OF 33
NO. DATE DESCRIPTION BY							FALL CREEK REGIONAL WASTE DISTRICT		
DESIGNED BY: D.A. Pauling CHECKED BY: James W. Frazell, P.E.				STANDARD SANITARY SEWER DETAILS		DRAWN BY: DAP DATE: 04/12/98 SCALE: AS NOTED		PROJECT No. 98008A SHEET No. 32 OF 33	



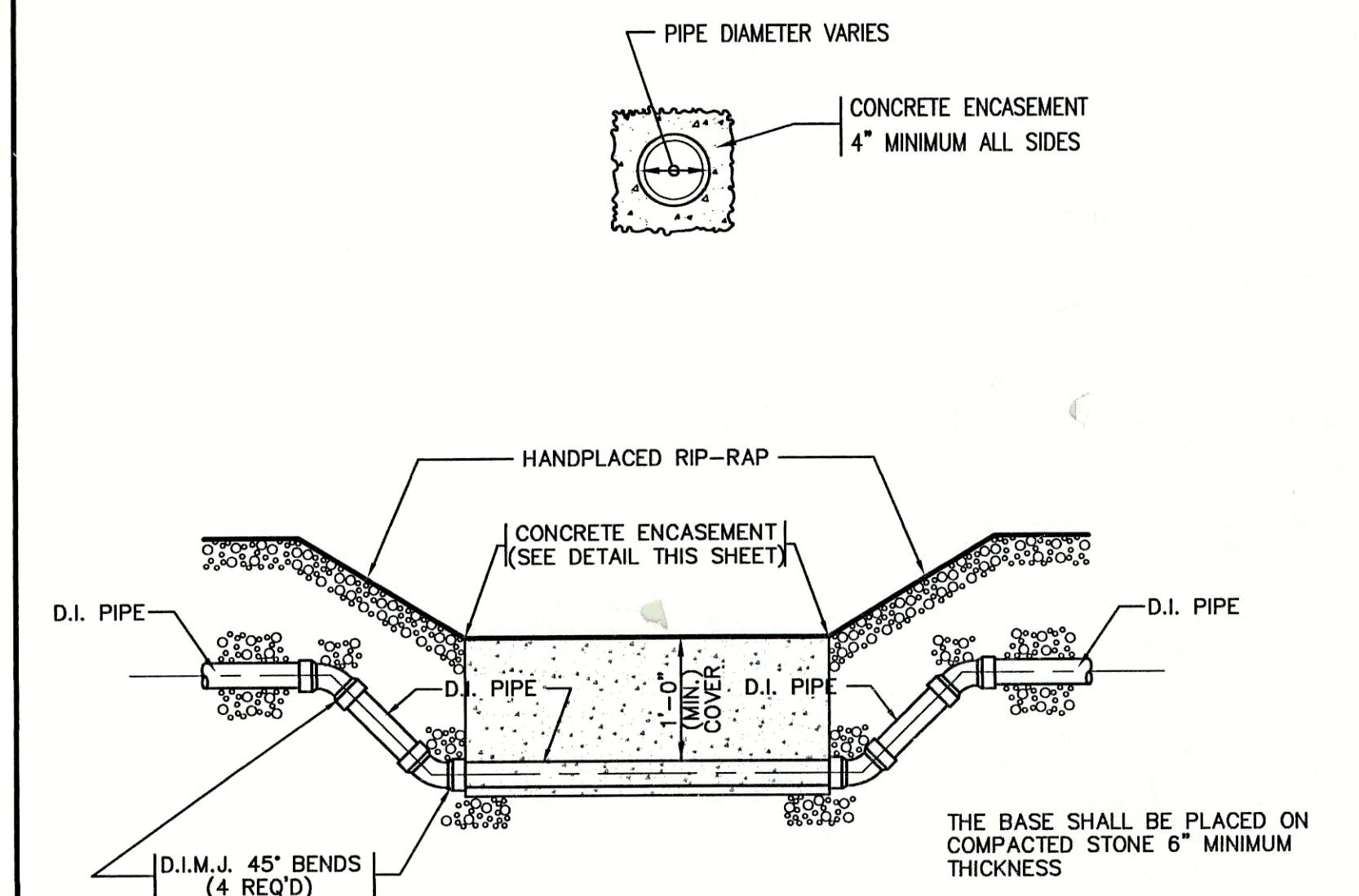
# RECORD DRAWING

August 23, 2001



**VALVE VAULT w/ AIR / VAC RELIEF STRUCTURE**

SCALE: N.T.S.



**TYPICAL CREEK CROSSING**

SCALE: N.T.S.

FILE NAME: SUN_DET2R-RD		PLOT SCALE: 1=1	PLOT DATE: 11/06
NO.	DATE	DESCRIPTION	BY

**TRIAD ASSOCIATES INC.**

INDIANAPOLIS, INDIANA

APPROVED

THOMAS M. SCHUBERT

No. 15614

STATE OF INDIANA

PROFESSIONAL ENGINEER

Thomas M. Schubert, P.E.

SUNVIEW, ALFON, REFORMATORY ROAD

FALL CREEK REGIONAL WASTE DISTRICT

STANDARD SANITARY SEWER DETAILS

DRAWN BY: DAP

DATE: 04/12/98

SCALE: AS NOTED

PROJECT No. 98008A

DESIGNED BY: D.A. Pauling

CHECKED BY: James W. Frazell, P.E.

SHEET No. 33

OF 33