

# CAMBRIDGE SECTION TWO

## RESIDENTIAL SUBDIVISION

### RECORD DRAWINGS

#### APPROVALS

##### SANITARY SEWER PLANS

RECOMMENDED BY: TRAVIS HILDEBRANDT, DIRECTOR ENGINEERING SERVICES , DATE: \_\_\_\_\_

APPROVED BY: EVANSVILLE WATER AND SEWER UTILITY BOARD , DATE: \_\_\_\_\_

##### DRAINAGE PLANS

RECOMMENDED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

Bill Jeffers, Vanderburgh County Surveyor  
VANDERBURGH COUNTY DRAINAGE BOARD

APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

Troy Tornatto

APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

Bill Nix

APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

Jeff Karo

##### ROADWAY PLANS

RECOMMENDED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

John Stoll, P.E. Vanderburgh County Engineer  
VANDERBURGH COUNTY COMMISSIONERS

APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

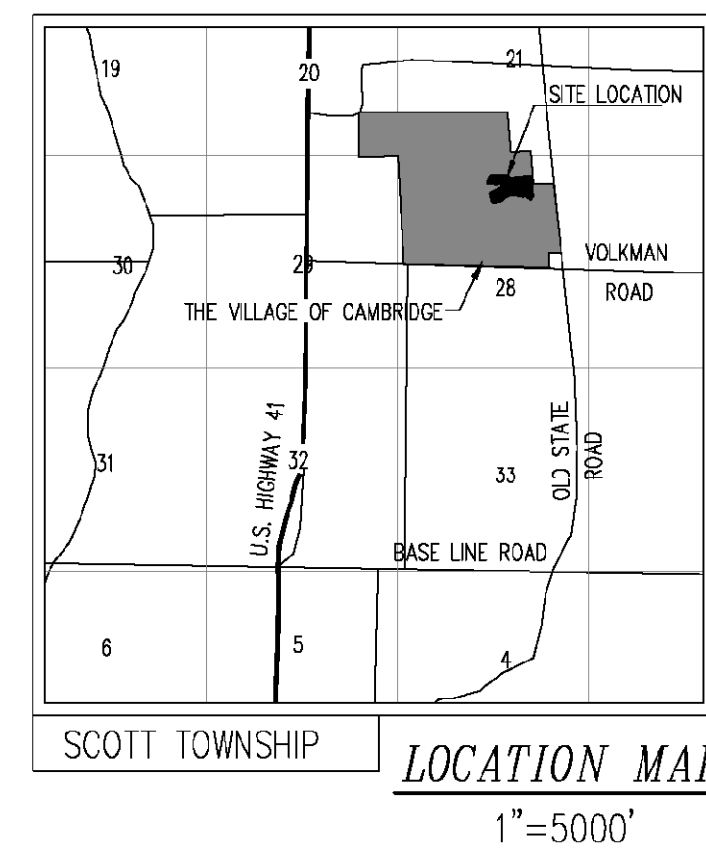
Jeff Karo

APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

Bill Nix

APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

Troy Tornatto



#### SHEET INDEX

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**RECORD  
DRAWING**

By: \_\_\_\_\_

Date: \_\_\_\_\_

#### NOTIFICATION REQUIREMENTS

THE CONTRACTORS SHALL NOTIFY ALL UTILITIES 48 HOURS BEFORE BEGINNING WORK FOR FIELD LOCATIONS. THE UTILITIES TO BE NOTIFIED INCLUDE THE FOLLOWING:

- VECTREN
  - EVANSVILLE WATER & SEWER UTILITY
  - SBC
  - TCI OF EVANSVILLE
- 1-800-382-5544

THE FOLLOWING GOVERNMENTAL AGENCIES SHALL BE NOTIFIED 24 HOURS PRIOR TO BEGINNING WORK AND ON A DAILY BASIS THEREAFTER WHEN PERFORMING THE WORK LISTED BELOW:

**STORM SEWERS, STREET SUBGRADE, & STREETS**  
VANDERBURGH COUNTY ENGINEER 435-5773

**SANITARY SEWERS**  
EVANSVILLE WATER & SEWER UTILITY OPERATIONS DEPT.  
421-2130

~~**SITECON, Inc.**  
Engineers-Surveyors  
10335 Hedden Road, Suite 2  
Evansville, Indiana 47725  
(812) 868-0877~~

Dimensions on these drawings shall be those responsible for scale dimensions. Contractors shall verify and be responsible for all dimensions and conditions shown on this plan and SECTION, Inc. must be notified of any variations from the dimensions and conditions shown by these drawings.

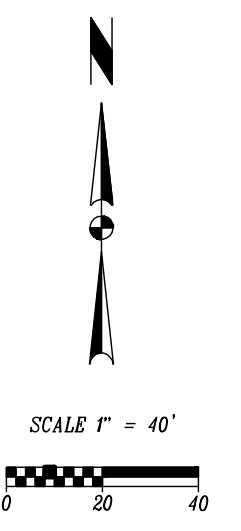
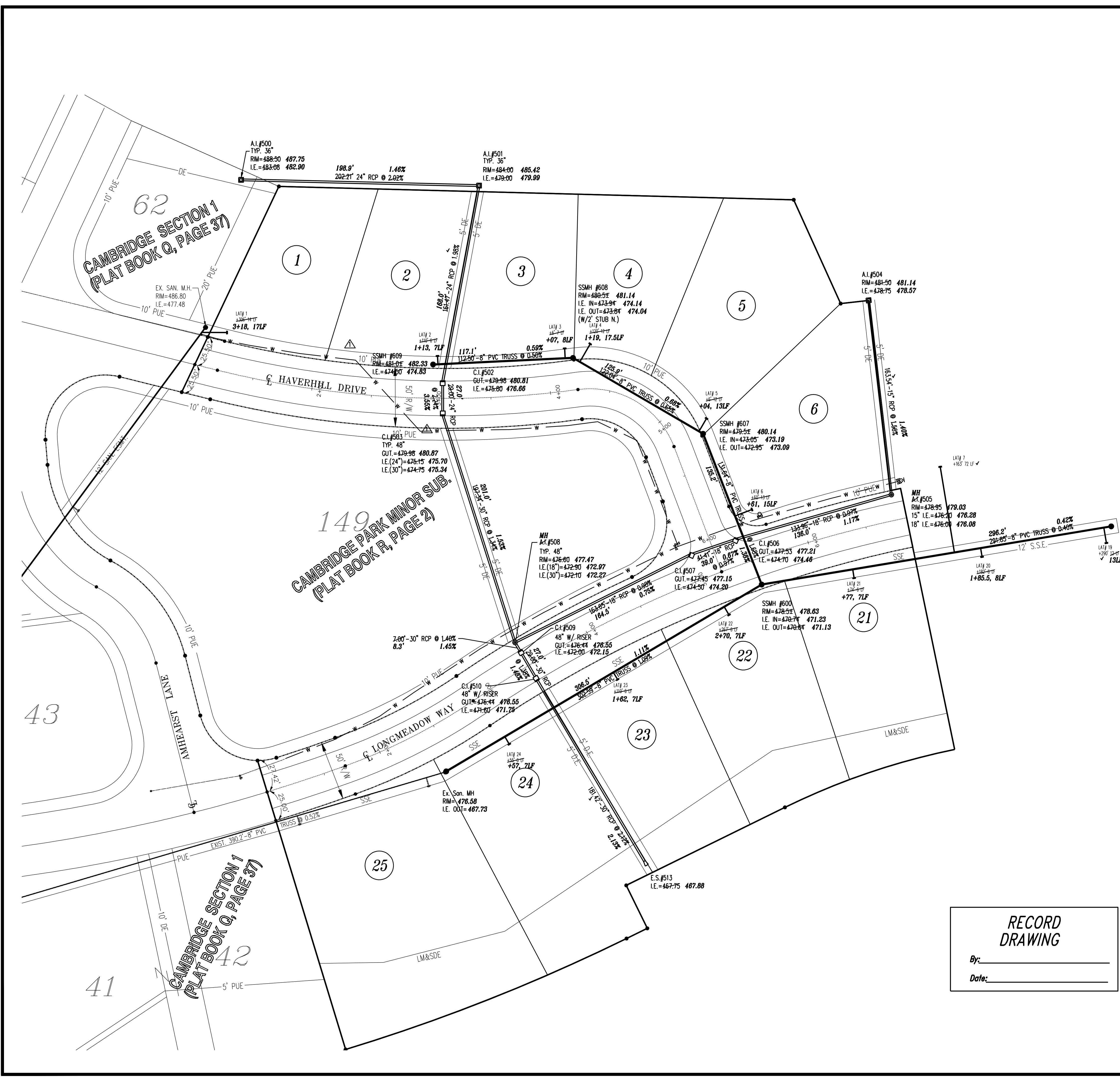


Project: CAMBRIDGE SECTION TWO  
 Sheet Title: RECORD INDEX

Revisions	No.	Date	Description

Checked By: SBT Job Number: 08-47  
 Drawn By: RAS Date: 12-18-08

Sheet Number:  
**INDEX**



THE FOLLOWING LOCAL GOVERNMENTAL AGENCY SHALL BE NOTIFIED 24 HOURS PRIOR TO BEGINNING WORK AND ON A DAILY BASIS WHEN PERFORMING THE WORK LISTED BELOW:

STORM SEWERS, STREET SUBGRADE, STREETS  
 VANDERBURG COUNTY ENGINEER 812-435-5773

SANITARY SEWERS  
 EVANSVILLE WATER & SEWER UTILITY OPERATIONS DEPT. 812-421-2130

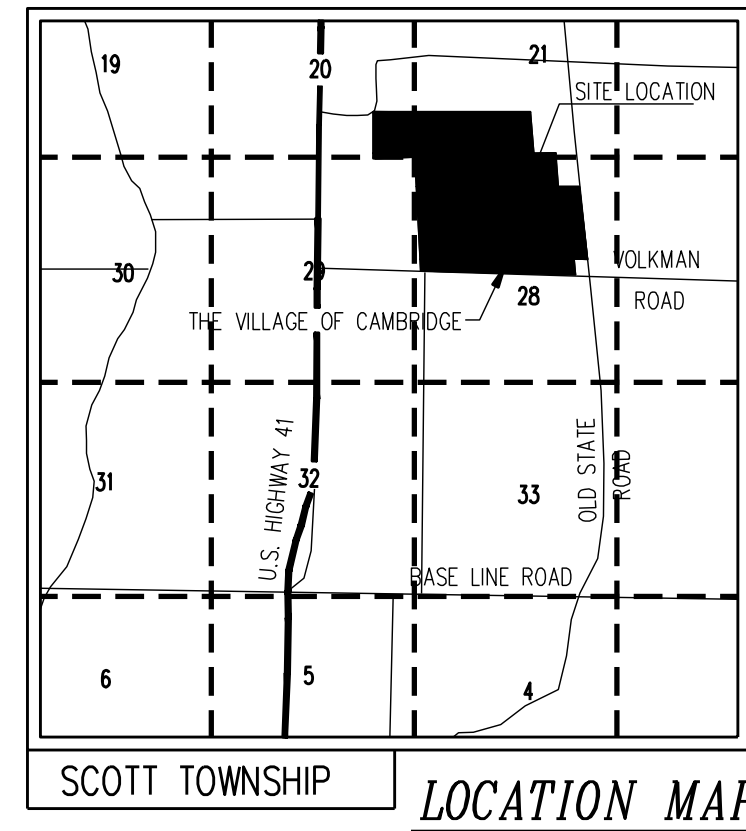
- GENERAL SITE**
- WORK COVERS ALL EARTHWORK, SEWERS, PIPING AND OTHER RELATED WORK FOR THE DEVELOPMENT OF CAMBRIDGE SECTION TWO.
  - THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE AND FEDERAL CODES, ORDINANCES, RULES, REGULATIONS, ORDERS AND OTHER LEGAL REQUIREMENTS OF MUNICIPAL AUTHORITIES WHICH BEAR ON THE PERFORMANCE OF THE WORK.
  - ALL FIELD ENGINEERING SHALL BE SUPPLIED BY THE OWNER.
  - ALL BUILDING PAD FILL MATERIAL SHALL BE COMPACTED TO 95% (STANDARD PROCTOR).
  - PROOF ROLLING REQUIRED ON ALL SUBGRADES.

**RECORD DRAWING**

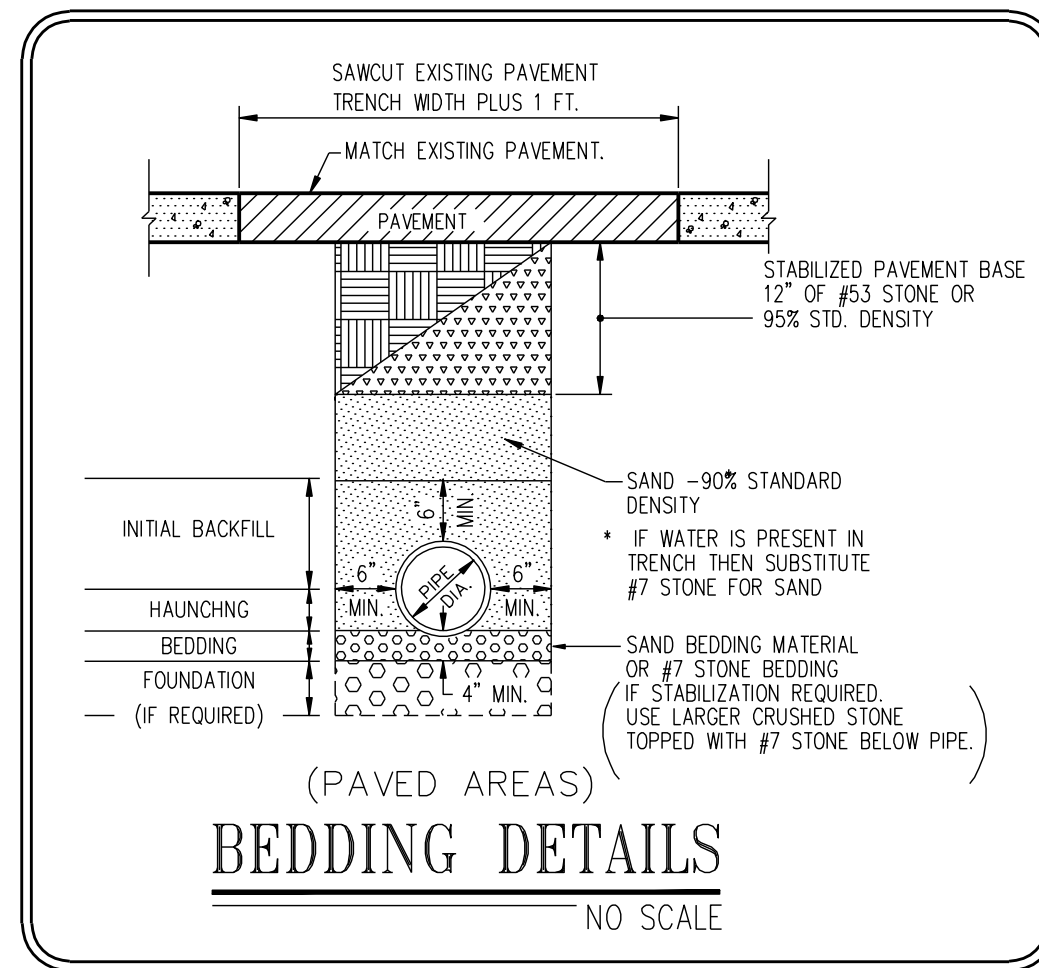
By: \_\_\_\_\_  
 Date: \_\_\_\_\_

**CURVE TABLE**

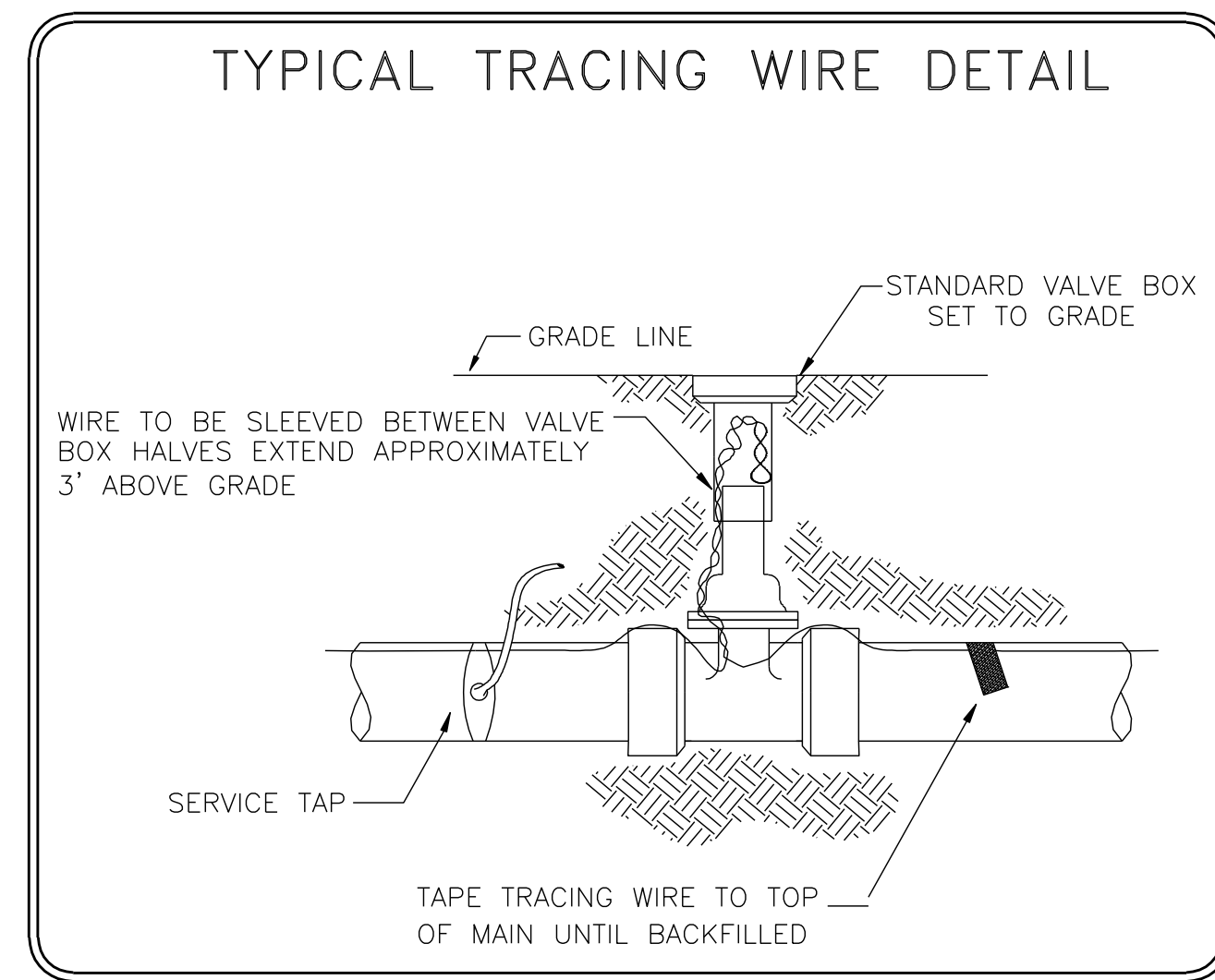
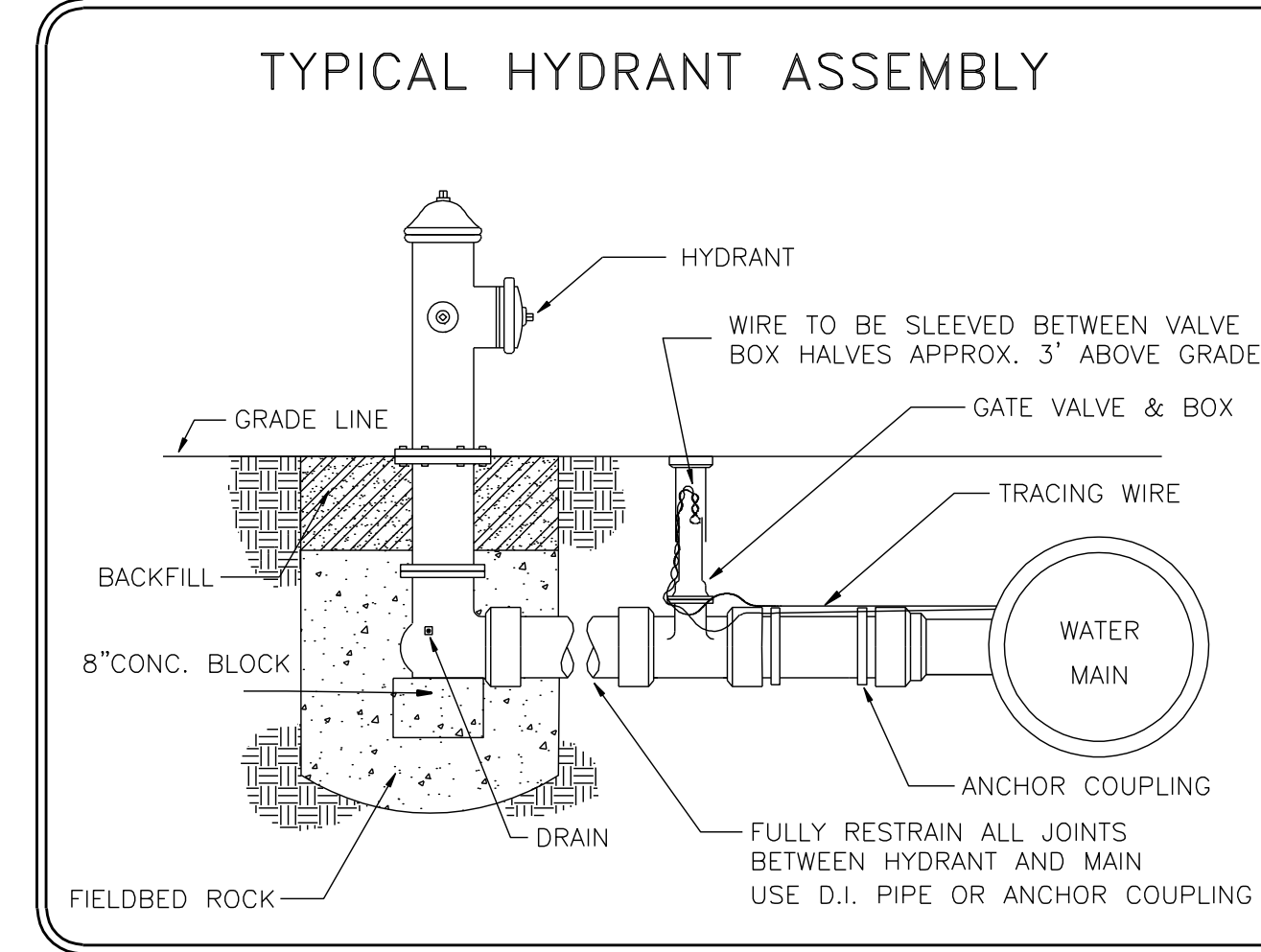
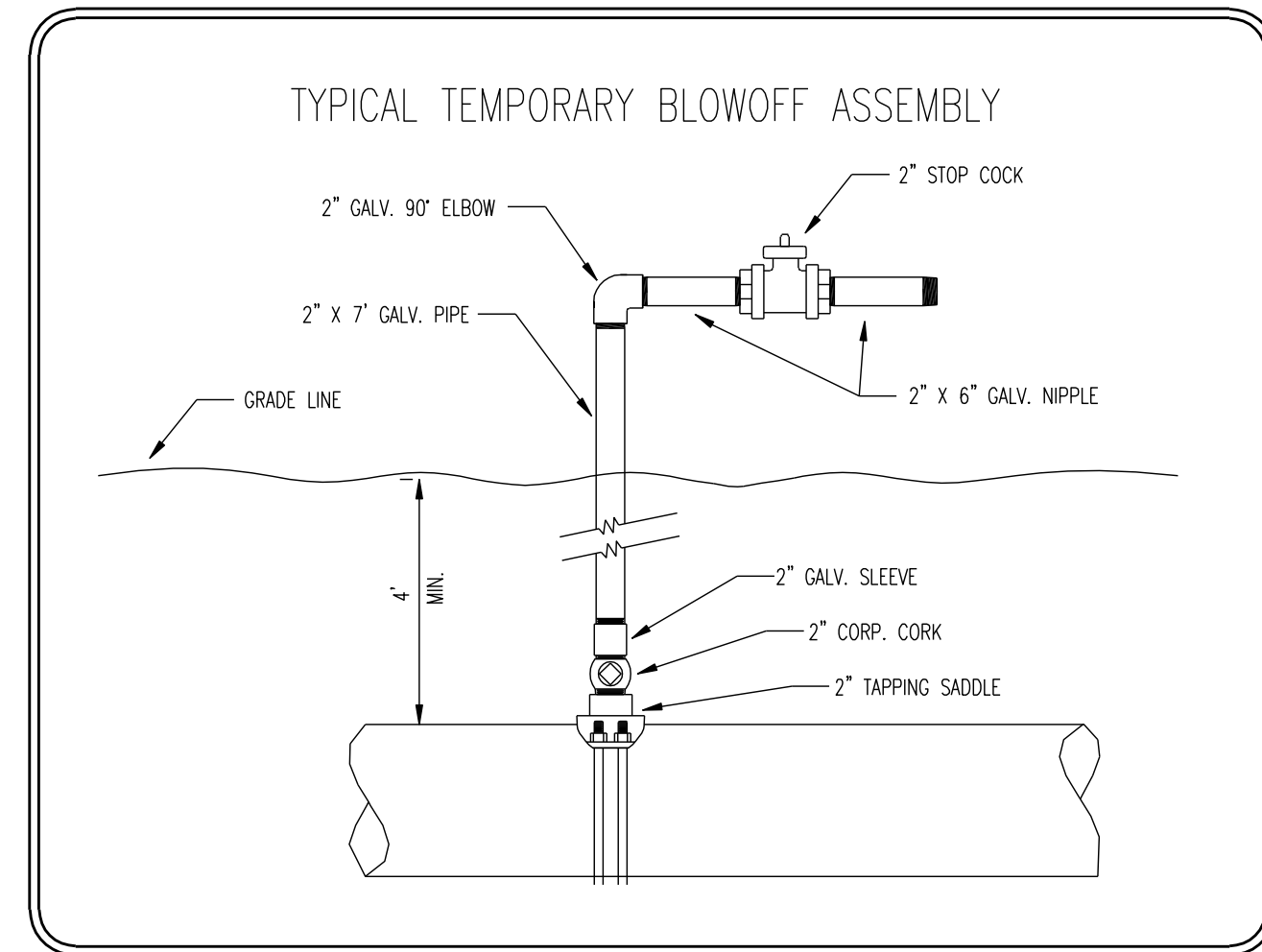
CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	DELTA ANGLE	TANGENT
CURVE #1	800.00'	303.63'	301.81'	S86°55'54"E	21°44'45"	153.66'
CURVE #2	75.00'	100.77'	93.36'	S59°18'48"E	76°58'57"	59.64'
CURVE #3	1350.00'	68.89'	68.88'	N7°35'07"E	02°55'25"	34.45'
CURVE #4	485.50'	120.24'	119.94'	N63°01'42"E	1°41'26"	60.43'
CURVE #5	1014.50'	234.52'	234.00'	N62°33'20"E	13°14'42"	117.78'
CURVE #6	1014.50'	224.82'	224.36'	N75°31'36"E	12°41'56"	112.87'



SCOTT TOWNSHIP LOCATION MAP  
1"=5000'

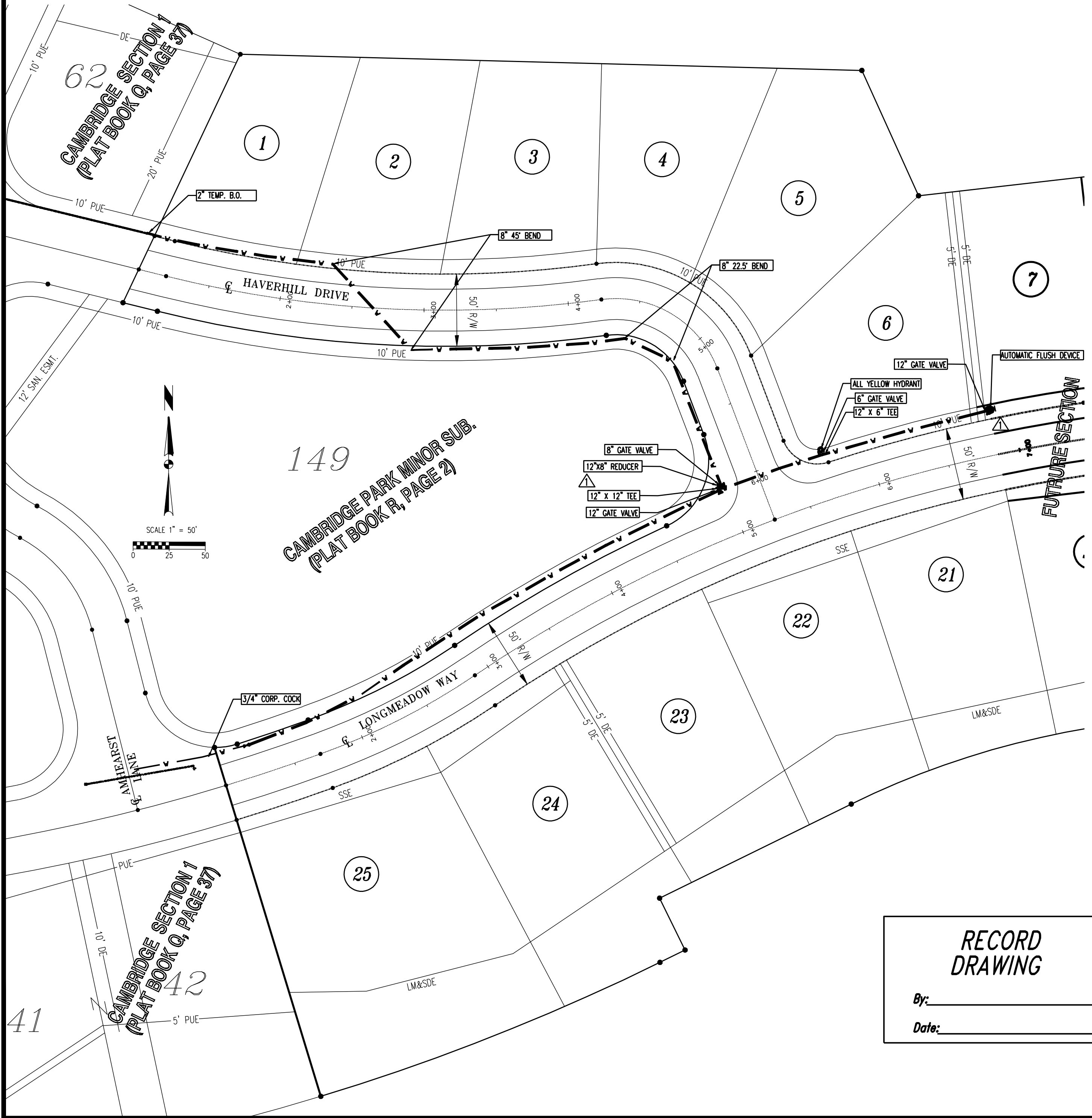


(PAVED AREAS)  
**BEDDING DETAILS**  
NO SCALE

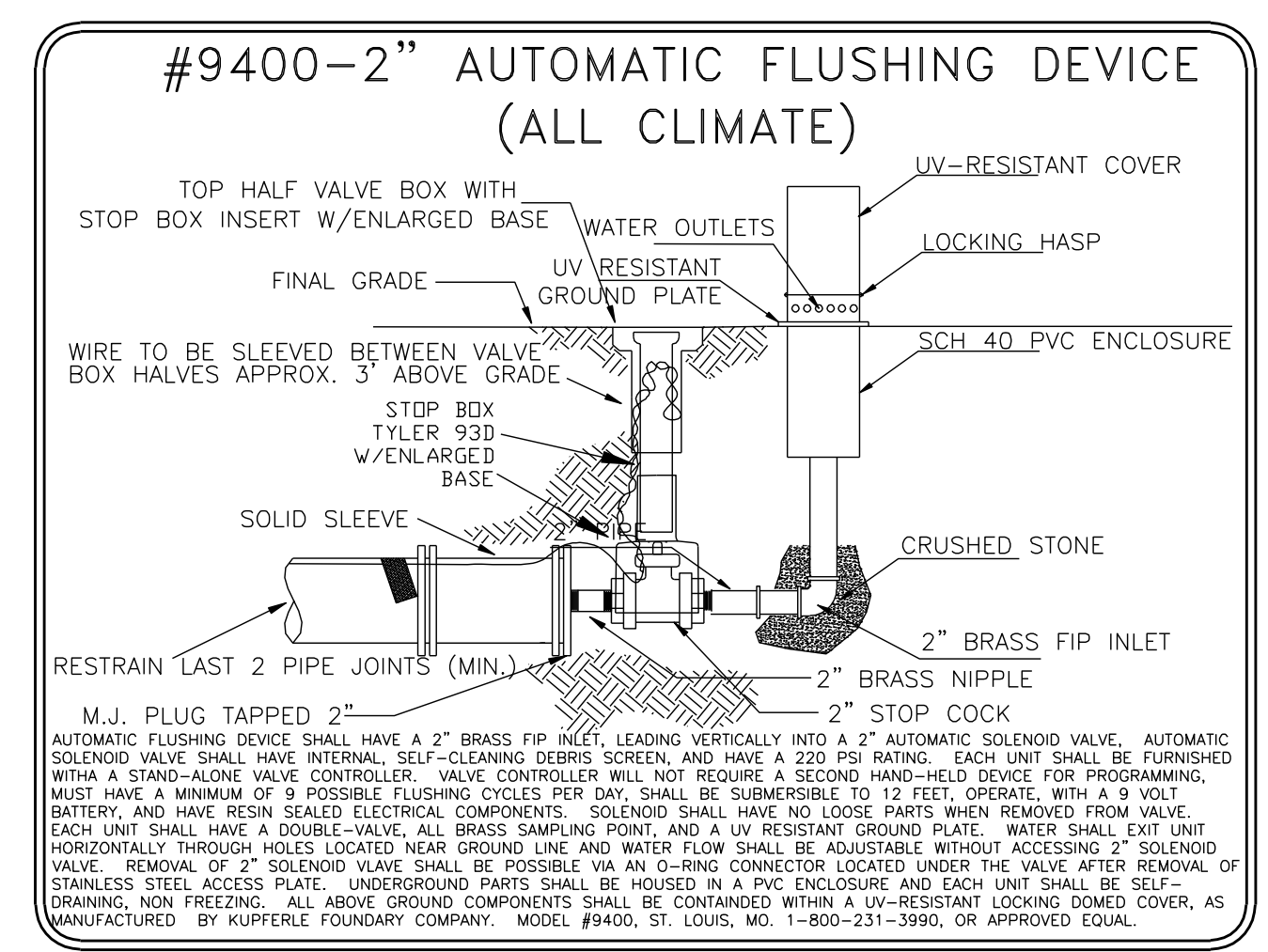


MATERIAL LIST		CHLORINATION NOTE	
597'	12" C-900 PVC PLASTIC PIPE	CHLORINATE THROUGH 3/4" CORP. COCK @ ① AND BLOWOFF THROUGH BLOW OFF ASSEMBLY AT ② & ③.	
479'	8" C-900 PVC PLASTIC PIPE		
2	12" GATE VALVE		
4	VALVE BOXES		
1	8" GATE VALVE		
1	6" GATE VALVE		
1	12" X 6" TEE		
1	12" X 6" TEE		
1	ALL YELLOW HYDRANT		
1	TEMPORARY BLOW OFF ASSEMBLY		
2	12" 22.5° BENDS		
2	12" 45° BENDS		
1	3/4" CORP. COCKS		
1	AUTOMATIC FLUSH DEVICE		

- GENERAL NOTES**
- PVC PIPE MAY BE BENT NO MORE THAN 12.3 INCHES OVER A 20' JOINT. USE FITTINGS AS NECESSARY TO PREVENT OVER-DEFLECTION OF PIPE.
  - ALL RESTRAINED JOINTS PER EVANSVILLE WATER SEWER UTILITY SPECIFICATIONS.
  - ALL BLOW OFF ASSEMBLIES SHALL HAVE PIPE JOINTS, PRIOR TO BLOW OFF, RESTRAINED WITH SERIES 1500 RESTRAINERS, IN ACCORDANCE WITH THE JOINT RESTRAINT MANUFACTURERS SPECIFICATIONS.
  - ALL FIRE HYDRANTS TO BE LOCATED SO THAT THEY DO NOT INTERFERE WITH THE SIDEWALKS, (WHERE REQUIRED).
  - CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE AND FEDERAL CODES, ORDINANCES, RULES, REGULATIONS, ORDERS AND OTHER LEGAL REQUIREMENTS OF MUNICIPAL AUTHORITIES WHICH BEAR ON THE PERFORMANCE OF THE WORK.
  - THE CONTRACTOR IS CAUTIONED THAT THE LOCATION AND / OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CONTACT THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. CONTRACTOR SHALL LOCATE EXISTING UTILITIES AND ESTABLISH ELEVATIONS AND CLEARANCES WITH PROPOSED IMPROVEMENTS PRIOR TO INITIATING CONSTRUCTION. INDIANA UNDERGROUND UTILITY LOCATE SERVICE (I.U.P.S.) PHONE: 1-(800)-382-5544
  - MATERIAL SPECIFICATIONS SHALL BE IN CONFORMANCE WITH APPLICABLE PORTIONS OF THE INDOT STANDARD SPECIFICATIONS, (LATEST EDITION) UNLESS SPECIFICALLY STATED OTHERWISE ON THESE PLANS, CONTRACT DOCUMENTS, OR LOCAL CODE.
  - MINIMUM OF 18 INCH VERTICAL AND 10 FEET HORIZONTAL CLEARANCE TO BE MAINTAINED BETWEEN WATERLINES AND SEWERS.
  - REMOVE ALL 2" TEMPORARY BLOW OFFS AND REPLACE 2" CORP COCK WITH PLUG PRIOR TO FINAL ACTIVATION.
  - ALL SHORT NIPPLES (16" OR LESS) BETWEEN FITTINGS AND VALVES TO BE ANCHOR COUPLING OR DUCTILE IRON PIPE.
  - MINIMUM DEPTH FOR WATERMAINS IS FOUR FEET.



**RECORD DRAWING**  
By: \_\_\_\_\_  
Date: \_\_\_\_\_



Blankenberger Brothers, Inc. logo and name.

Project: CAMBRIDGE SECTION TWO  
Sheet Title: WATERLINE EXTENSION RECORD DRAWING

Revisions	Description	Date	By

Scale: 1"=50'  
Checked By: SBT Job Number: 08-47  
Drawn By: RAS Date: 12-01-08  
Sheet Number: WE-1

THE FOLLOWING LOCAL GOVERNMENTAL AGENCY SHALL BE NOTIFIED 24 HOURS PRIOR TO BEGINNING WORK AND ON A DAILY BASIS WHEN PERFORMING THE WORK LISTED BELOW:

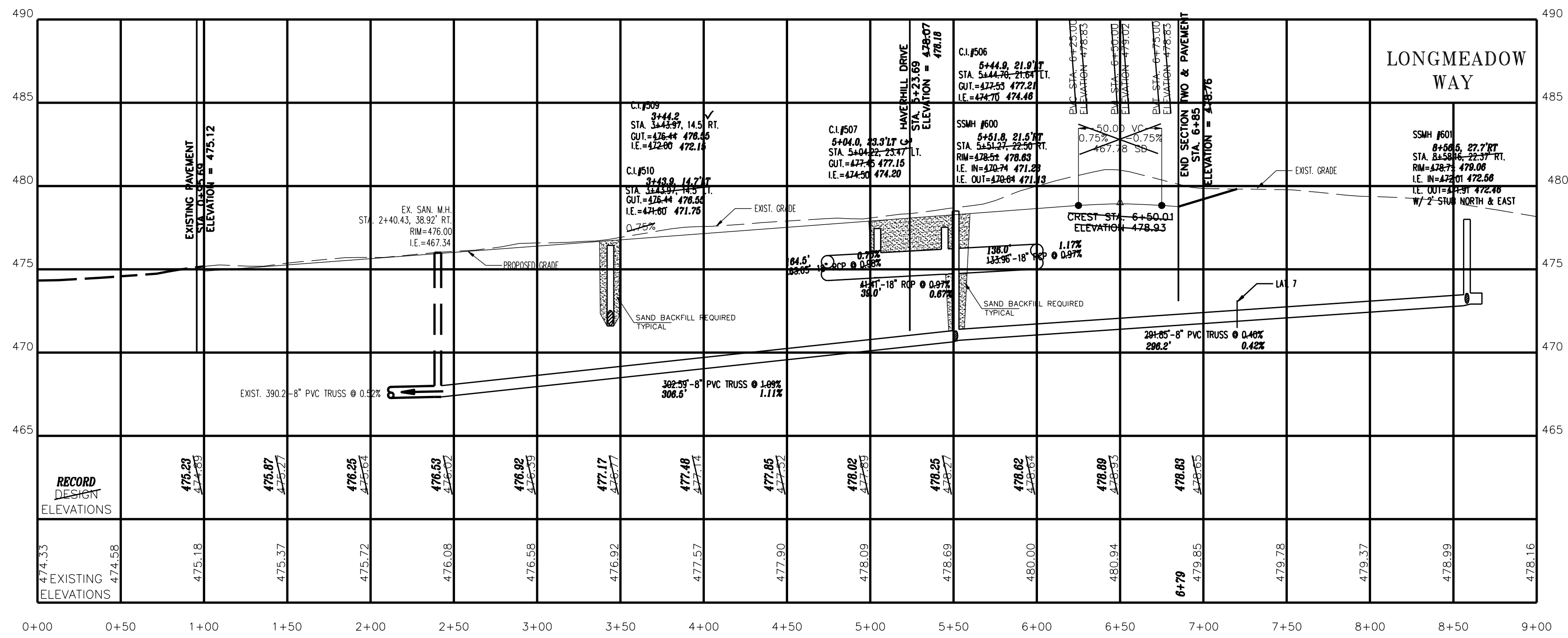
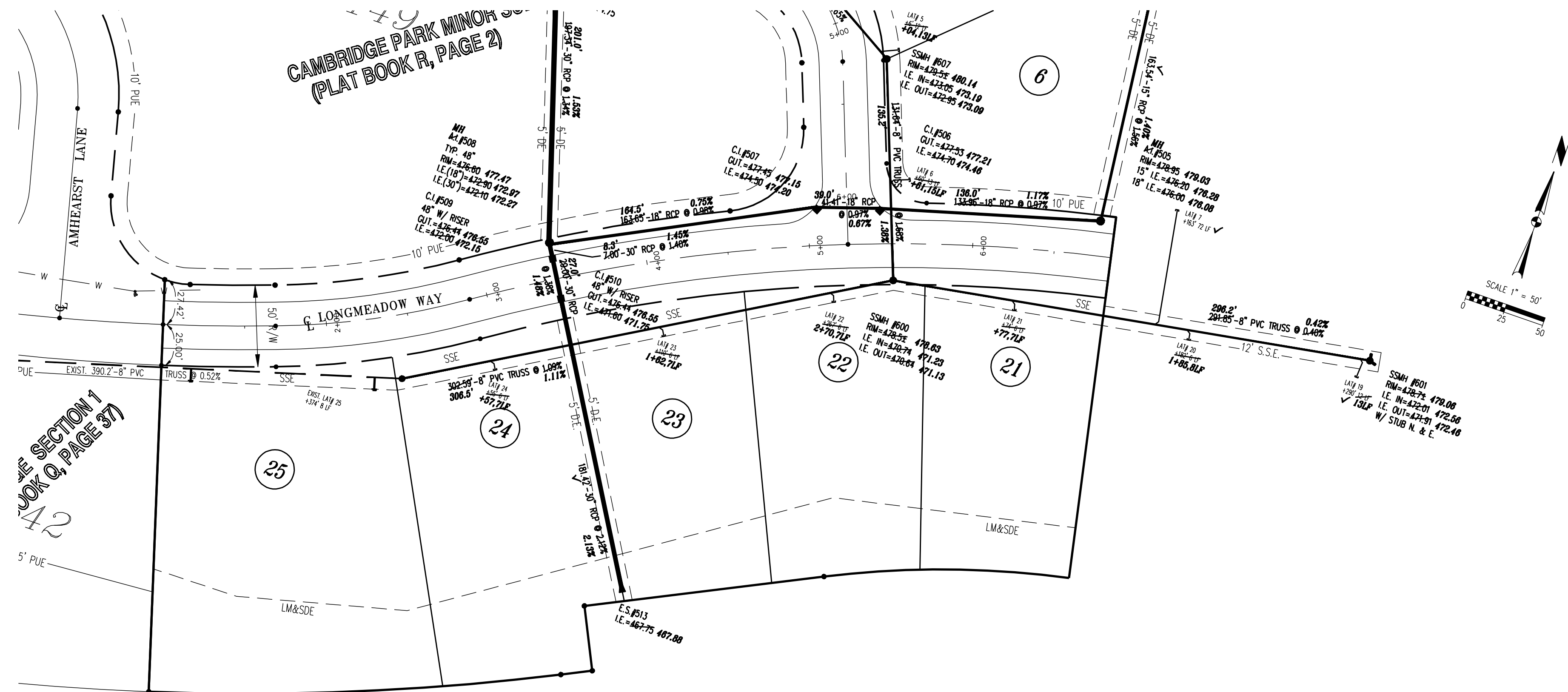
STORM SEWERS, STREET SUBGRADE, STREETS  
 VANDERBURGH COUNTY ENGINEER 812-435-5773  
 SANITARY SEWERS  
 EVANSVILLE WATER & SEWER UTILITY OPERATIONS DEPT. 812-421-2130

GENERAL SITE

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- ALL FIELD ENGINEERING SHALL BE SUPPLIED BY THE OWNER.
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- PROOF ROLLING REQUIRED ON ALL SUBGRADES.

CURVE TABLE

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	DELTA ANGLE	TANGENT
CURVE #1	800.00'	303.63'	301.81'	S86°55'54"E	21°44'45"	153.66'
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CURVE #6	1014.50'	224.82'	224.36'	N75°31'36"E	1°24'15"	112.87'



**RECORD DRAWING**  
 By: \_\_\_\_\_  
 Date: \_\_\_\_\_

The contractor on these drawings shall be responsible for all dimensions and conditions. Contractors shall verify all dimensions and conditions on the ground before starting work. The contractor shall be responsible for all dimensions and conditions. Contractors shall verify all dimensions and conditions on the ground before starting work.



Project: **CAMBRIDGE SECTION TWO**  
 Sheet Title: **LONGMEADOW WAY**

No.	By	Date	Description

Scale: 1"=50'  
 Checked By: SBT Job Number: 08-47  
 Drawn By: RAS Date: 12-18-08

Sheet Number: **RP-1**

THE FOLLOWING LOCAL GOVERNMENTAL AGENCY SHALL BE NOTIFIED 24 HOURS PRIOR TO BEGINNING WORK AND ON A DAILY BASIS WHEN PERFORMING THE WORK LISTED BELOW:

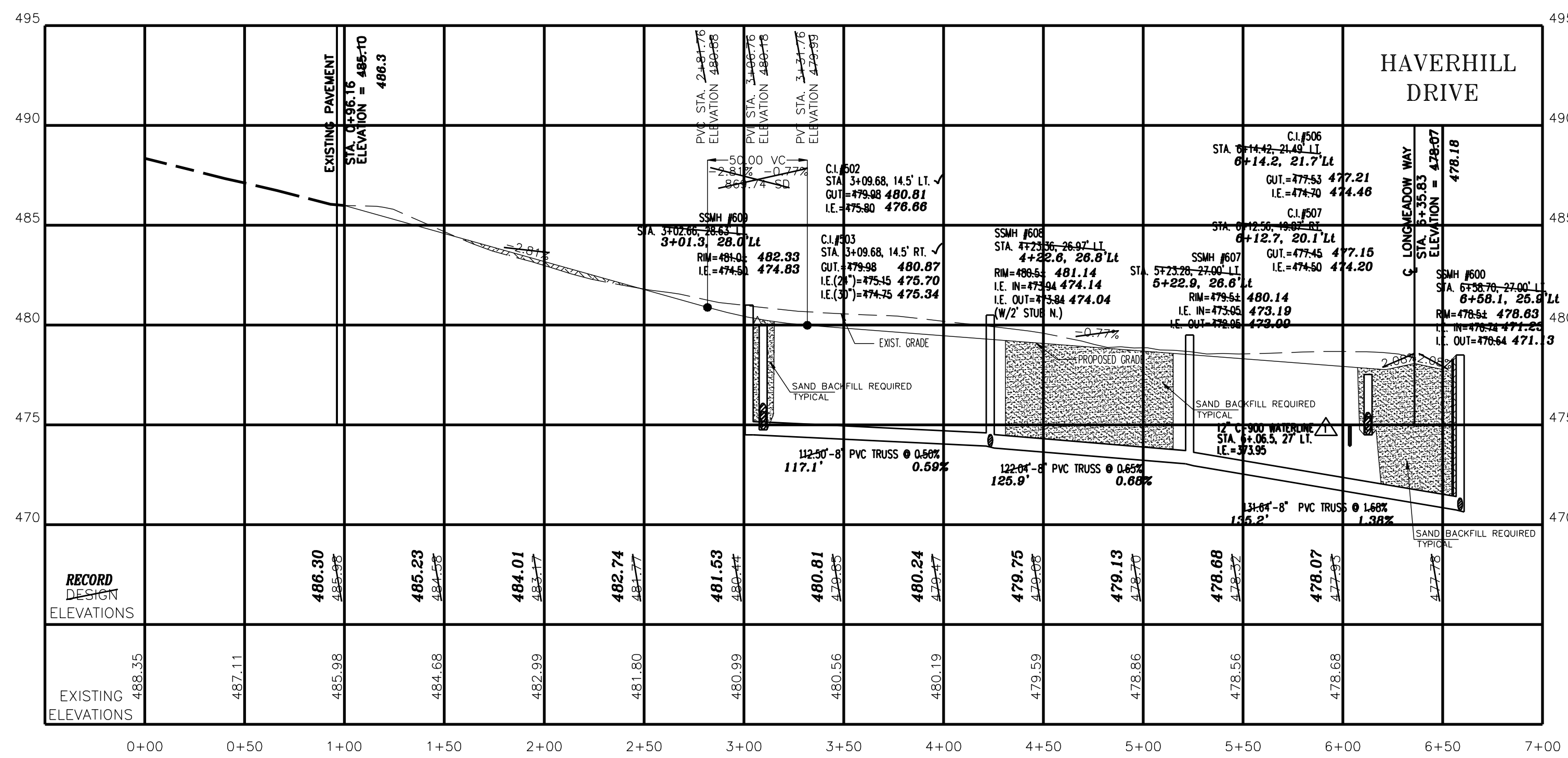
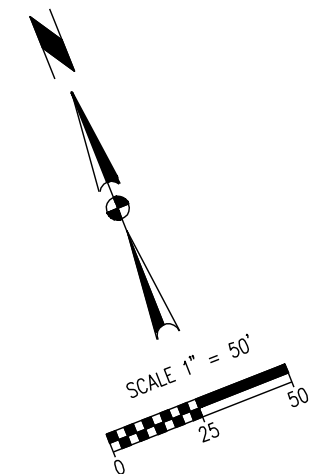
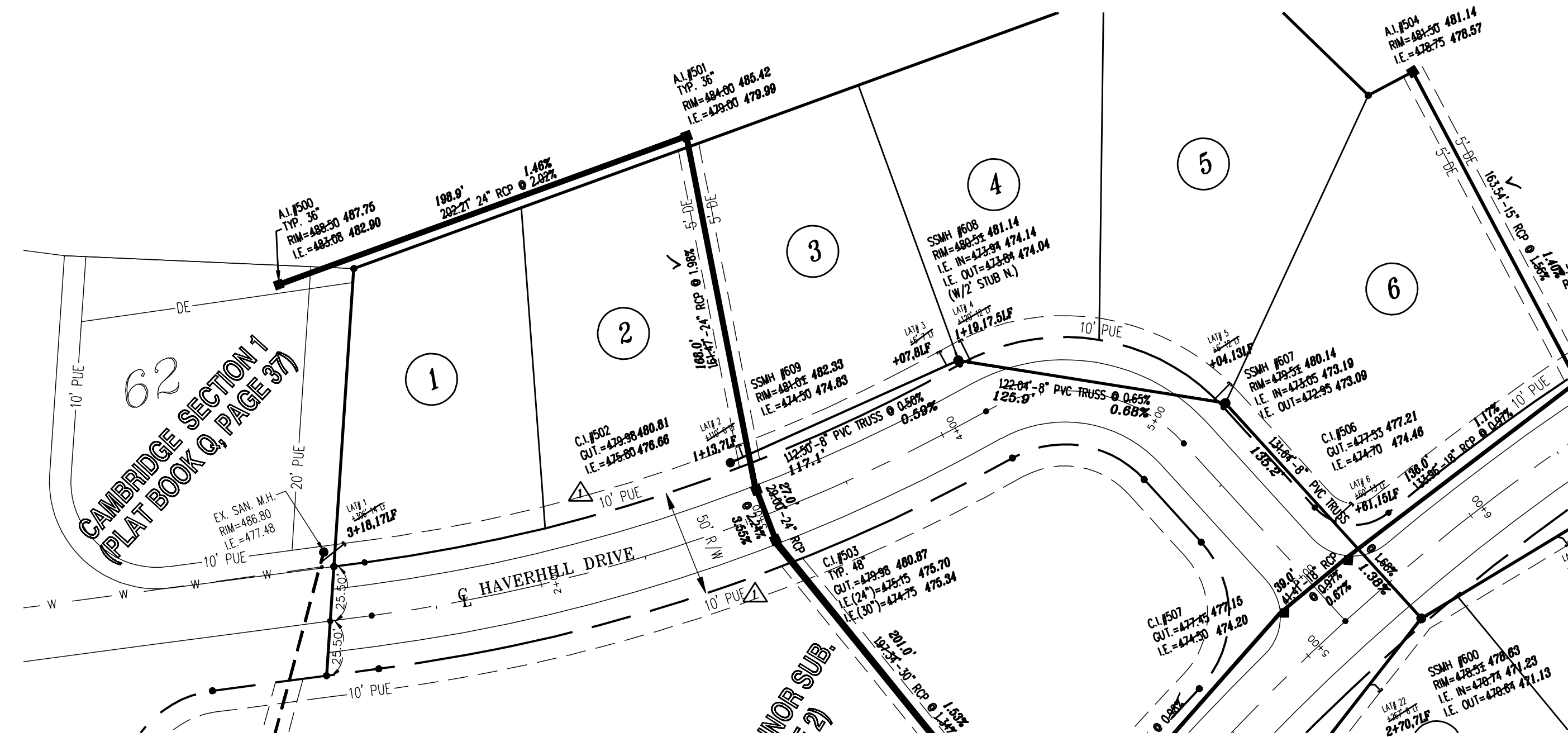
- STORM SEWERS, STREET SUBGRADE, STREETS  
VANDERBURGH COUNTY ENGINEER 812-435-5773
- SANITARY SEWERS  
EVANSVILLE WATER & SEWER UTILITY OPERATIONS DEPT. 812-421-2130

GENERAL SITE

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CURVE #6	1014.50'	224.82'	224.36'	N75°31'36"E	1°24'50"	112.87'



**RECORD DRAWING**

By: \_\_\_\_\_

Date: \_\_\_\_\_

Blankenberger Brothers, Inc. is not responsible for any errors or omissions in this drawing. The user of this drawing shall be responsible for all dimensions and conditions. The user shall verify all dimensions and conditions on the ground before construction. The user shall be responsible for any variations from the conditions and dimensions shown on this drawing.



Project: CAMBRIDGE SECTION TWO

Sheet Title: HAVERHILL DRIVE

No.	By	Date	Description

Scale: 1"=50'

Checked By: SBT Job Number: 08-47

Drawn By: RAS Date: 12-18-08

Sheet Number: RP-2

# STORM STRUCTURE TABLE

STRUCTURE NUMBER	STRUCTURE TYPE	CASTING	COVER/GRATE
500	A.I.-TYPE "36"	E.J. 6610	OPEN
501	A.I.-TYPE "36"	E.J. 6610	OPEN
502	C.I.-TYPE "J"	E.J. 7030	M4
503	C.I.-TYPE "48" W/ RISER	E.J. 7030	M4
504	A.I.-TYPE "E"	E.J. 6610	OPEN
505	A.I.-TYPE "E"	<del>E.J. 6610</del>	<del>OPEN</del>
506	C.I.-TYPE "J"	E.J. 7030	M3
507	C.I.-TYPE "J"	E.J. 7030	M3
508	A.I.-TYPE "48"	<del>E.J. 6610</del>	<del>OPEN</del>
509	C.I.-TYPE "48" W/ RISER	E.J. 7030	M4
510	C.I.-TYPE "48" W/ RISER	E.J. 7030	M4
513	30" CONC. END SECTION	-----	---

SOLID LID  
SOLID LID

FOR DITCH FLOWLINES OF 0% - 2% USE "VERDYOL ERO-MAT STANDARD" EROSION CONTROL BLANKET OR APPROVED EQUAL.



TYP. DITCH SECTION  
DITCH SLOPE 2.00% N.T.S.

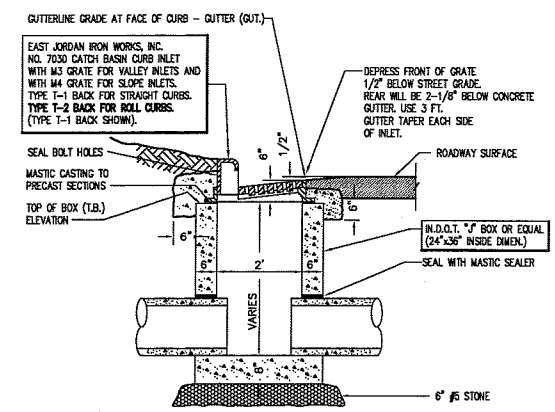
## GENERAL NOTES

- GENERAL SITE**
- WORK COVERS ALL EARTHWORK, SEWERS, PAVING AND OTHER RELATED WORK FOR THE DEVELOPMENT OF "CAMBRIDGE SECTION TWO."
  - THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE AND FEDERAL CODES, ORDINANCES, RULES, REGULATIONS, ORDERS AND OTHER LEGAL REQUIREMENTS OF MUNICIPAL AUTHORITIES WHICH BEAR ON THE PERFORMANCE OF THE WORK.
  - ALL FIELD ENGINEERING SHALL BE SUPPLIED BY THE OWNER.
  - CONTRACTOR SHALL NOTIFY COUNTY ENGINEER BEFORE PLACING ANY STRUCTURE OR LINE UNDER PROPOSED ROADWAYS 435-5773
- EXCAVATING**
- ROADWAY SUBGRADE COMPACTION TESTS SHALL BE PERFORMED AT CONTRACTORS EXPENSE.
  - SUFFICIENT SOIL SAMPLES ARE TO BE TAKEN BY THE CONTRACTOR FROM THE ROADWAY SUBGRADE AFTER THE TOPSOIL IS REMOVED OR FROM BORROW AREAS IN ORDER TO OBTAIN ACCURATE PROCTOR VALUES FOR SUBSEQUENT SUBGRADE DENSITY TESTING.
  - SUBGRADE IS TO BE COMPACTED IN ACCORDANCE WITH VANDERBURGH COUNTY ROAD STANDARDS.
  - SUBGRADE DENSITY IS TO BE TESTED AT A MINIMUM OF ONE TEST PER SECTION OF ROADWAY CONNECTED BY AN INTERSECTION. OTHERS MAY BE REQUESTED AT THE DISCRETION OF THE INSPECTOR OR ENGINEER.
  - DRAWINGS DO NOT REPRESENT A BALANCE BETWEEN BORROW AND FILL MATERIAL.
  - TOP SOIL WILL BE SALVAGED & PLACED IN ALL AREAS OF THE SITE EXCEPT FOR A 40' STRIP BEHIND THE 20' BUILDING SETBACK LINE, AREAS WHERE STREETS WILL BE CONSTRUCTED, AND AREAS BELOW THE NORMAL POOL OF THE RETENTION BASIN.
- STORM SEWERS**
- ALL STORM SEWERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH VANDERBURGH COUNTY STANDARDS.
  - ALL LENGTHS OF STORM SEWER PIPE TERMINATING OR BEGINNING WITH END SECTIONS REFER TO THE DISTANCE FROM THE CENTERLINE OF STRUCTURE TO THE FLOWLINE OF THE END SECTION.

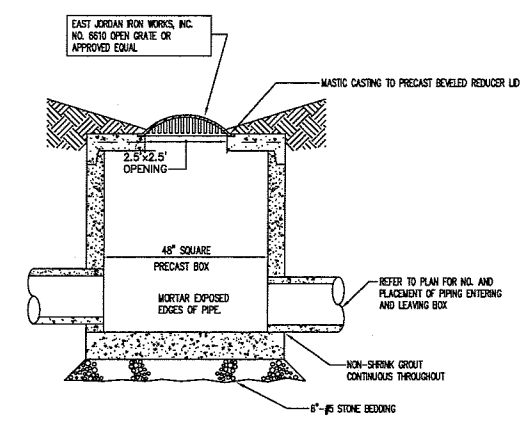
Written dimensions on these drawings shall have precedence over all other dimensions and conditions on the job and SITECON, Inc. must be notified of any variations from the dimensions and conditions shown by these drawings.

**SITECON, Inc.**  
Engineers-Surveyors  
10935 Hedden Rd. Suite 2  
Evansville, Indiana 47725  
(812) 868-0877

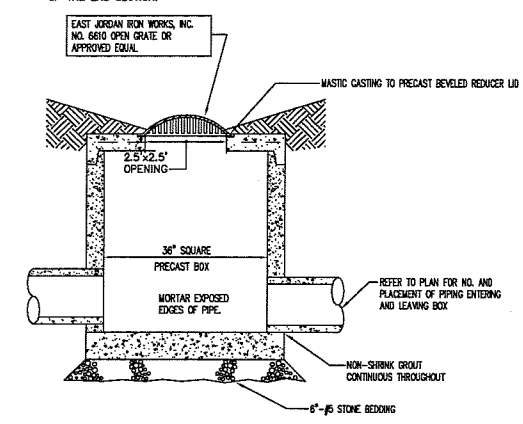
Project: CAMBRIDGE SECTION TWO  
Sheet Title: STORM DETAILS



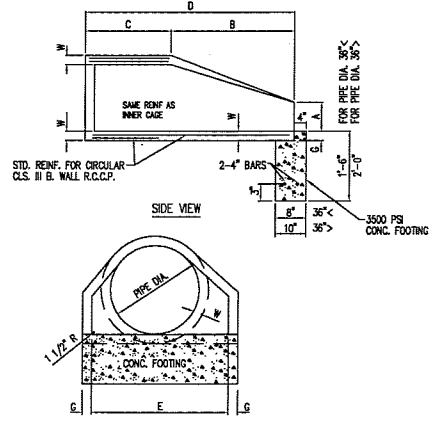
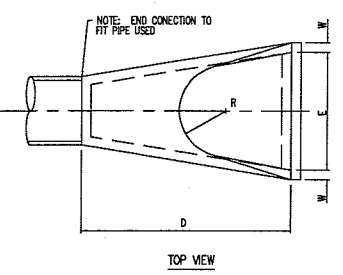
CURB INLET DETAIL  
TYPE "J-7030" SCALE: N.T.S.



MANHOLE-TYPE "48"  
SCALE: N.T.S.

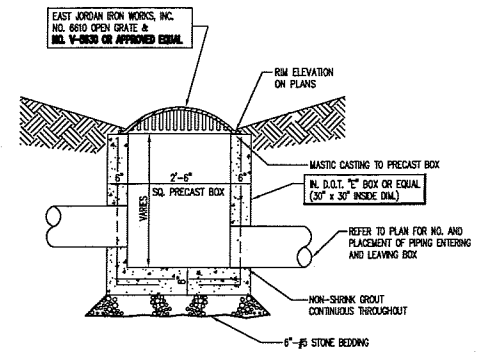


MANHOLE-TYPE "36"  
SCALE: N.T.S.

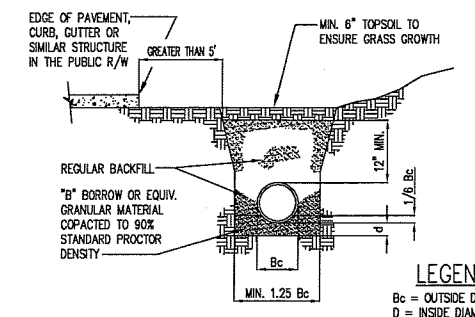


PIPE DIA.	WGT. (LBS)	WALL	A	B	C	D	E	G	R	SLOPE
12"	530	2"	5"	2'-0"	4'-1/8"	6'-0 7/8"	2'-0"	2"	9"	2:1
15"	740	2 1/4"	6"	2'-3"	3'-10"	6'-1"	2'-6"	2 1/4"	11"	2:1
18"	990	2 1/2"	10"	2'-3"	3'-10"	6'-1"	3'-0"	2 1/2"	12"	2:1
21"	1280	2 3/4"	10"	2'-11"	3'-2"	6'-1"	3'-6"	2 3/4"	13"	2:1
24"	1520	3"	10"	3'-7 1/2"	2'-4"	6'-1 1/2"	4'-0"	3"	14"	2:1
27"	1830	3 1/4"	10 1/2"	4'-0"	2'-1 1/2"	6'-1 1/2"	4'-6"	3 1/4"	14 1/2"	3:1
30"	2190	3 1/2"	1'-0"	4'-6"	1'-3 3/4"	6'-1 3/4"	6'-0"	3 1/2"	15"	3:1
36"	3200	3 3/4"	1'-1 1/2"	4'-10 1/2"	3'-3 1/4"	6'-3 1/4"	6'-6"	3 3/4"	17 1/2"	3:1
36"	4100	4"	1'-3"	3'-3"	2'-10 3/4"	6'-1 3/4"	6'-0"	4"	20"	3:1
42"	5380	4 1/2"	1'-5"	6'-3"	2'-11"	6'-2"	6'-5"	4 1/2"	22"	3:1
48"	6550	5"	2'-0"	6'-0"	2'-2"	6'-2"	7'-0"	5"	22"	3:1
54"	8240	5 1/2"	2'-3"	5'-5"	2'-11"	6'-4"	7'-8"	5 1/2"	24"	2:1
60"	8130	6"	2'-11"	5'-0"	3'-3"	6'-3"	6'-0"	5"	21"	2:1
66"	10710	6 1/2"	2'-5"	8'-0"	2'-3"	6'-3"	6'-0"	5 1/2"	21"	2:1
72"	12520	7"	3'-0"	6'-6"	1'-9"	6'-3"	6'-0"	6"	21"	1.66:1
78"	14770	7 1/2"	3'-0"	7'-6"	1'-9"	6'-3"	6'-0"	6 1/2"	21"	1.66:1
84"	18160	8"	3'-0"	7'-5 1/2"	1'-9"	6'-3 1/2"	10'-0"	6 1/2"	21"	1.5:1

CONCRETE END SECTION DETAIL  
SCALE: N.T.S.



AREA INLET DETAIL  
TYPE "E-6610" SCALE: N.T.S.

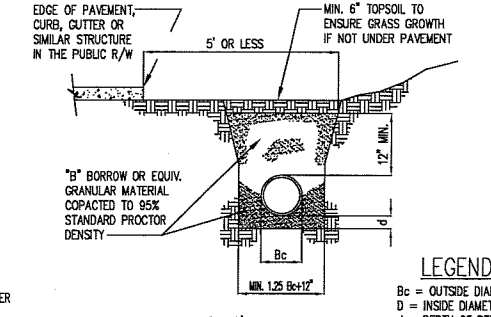


NOTE: ALL BEDDING & INITIAL BACKFILL SHALL BE INSTALLED IN 6" TO 12" BALANCED LIFTS. A MINIMUM 9" OF CLEARANCE SHALL BE PROVIDED ON EACH SIDE OF THE INSTALLED PIPE.

LEGEND:  
Bc = OUTSIDE DIAMETER  
D = INSIDE DIAMETER  
d = DEPTH OF BEDDING MATERIAL BELOW PIPE

DEPTH OF BEDDING MATERIAL BELOW PIPE (d) min.  
27" & SMALLER: 3"  
30" TO 60": 4"  
66" & LARGER: 6"

PIPE BEDDING DETAIL  
RCP - CLASS III OR IV SCALE: N.T.S.



NOTE: ALL BEDDING & INITIAL BACKFILL SHALL BE INSTALLED IN 6" TO 12" BALANCED LIFTS. A MINIMUM 9" OF CLEARANCE SHALL BE PROVIDED ON EACH SIDE OF THE INSTALLED PIPE.

LEGEND:  
Bc = OUTSIDE DIAMETER  
D = INSIDE DIAMETER  
d = DEPTH OF BEDDING MATERIAL BELOW PIPE

DEPTH OF BEDDING MATERIAL BELOW PIPE (d) min.  
27" & SMALLER: 3"  
30" TO 60": 4"  
66" & LARGER: 6"

PIPE BEDDING DETAIL  
RCP - CLASS III OR IV SCALE: N.T.S.

No.	By	Date	Description

Scale: AS NOTED  
Designed By: NRM Job Number: 543-08-B  
Drawn By: NRM Date: 07-21-08  
Sheet Number: DETAIL-STORM  
**DE-3**