

# FOREST HILL CEMETERY IMPROVEMENTS 2017

CONTRACT NUMBER: 8002  
MUNIS NO. 17167-51-130

STORM SEWER AND ROADWAYS  
DESIGNED BY:



City of Madison  
Department of Public Works  
PARKS DIVISION  
City-County Building, Suite 104  
210 Martin Luther King, Jr. Blvd.  
PO Box 2987  
Madison, WI 53701-2987

play  
**MADISON  
PARKS**



## INDEX OF SHEETS

SHEET NO.	TITLE
1	TITLE
D1	TYPICAL SECTIONS
D2	SHEET INDEX AND OVERVIEW
P1-P5	ROADWAY RESURFACING PLANS
U1-U5	STORM SEWER PLANS
U-6	STORM SEWER SCHEDULE
IR-1.1	IRRIGATION OVERVIEW
IR1-IR5	IRRIGATION PLANS
IR6-IR7	IRRIGATION DETAILS
EC1-EC6	EROSION CONTROL PLAN

PROJECT:

FOREST HILL CEMETERY  
IMPROVEMENTS 2017

GOODMAN PARK  
ICE RINK  
37 VAN DEUSEN ST  
MADISON, WI 53703

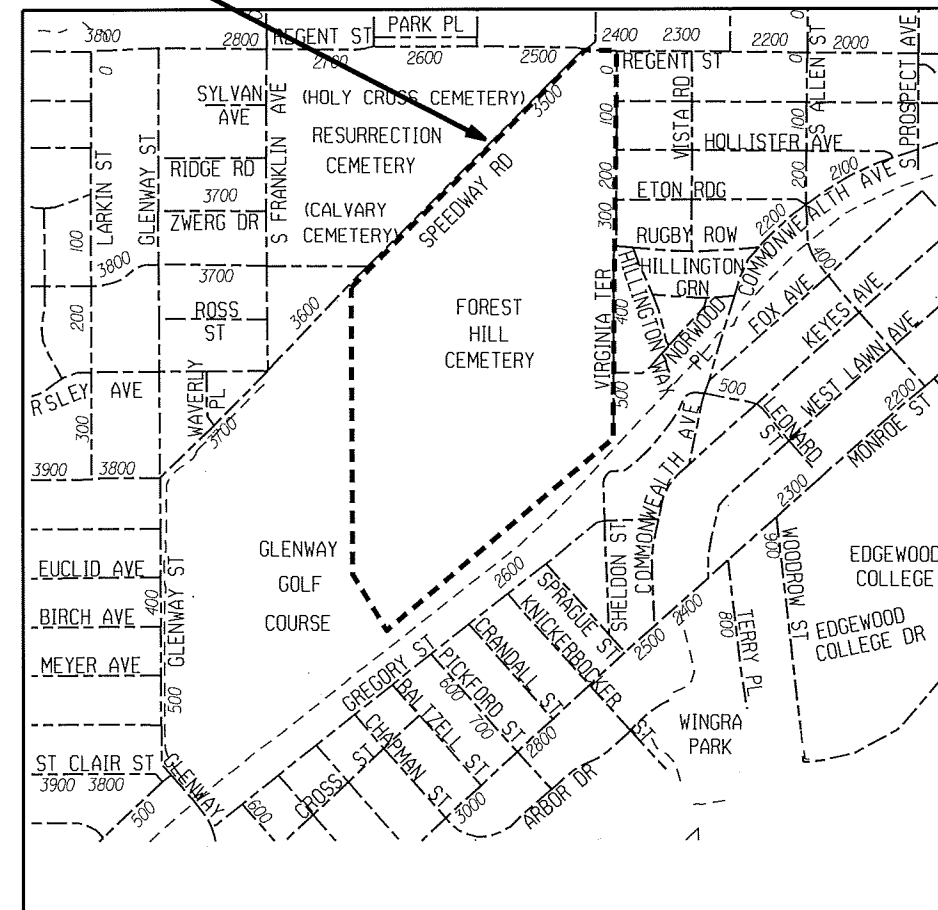
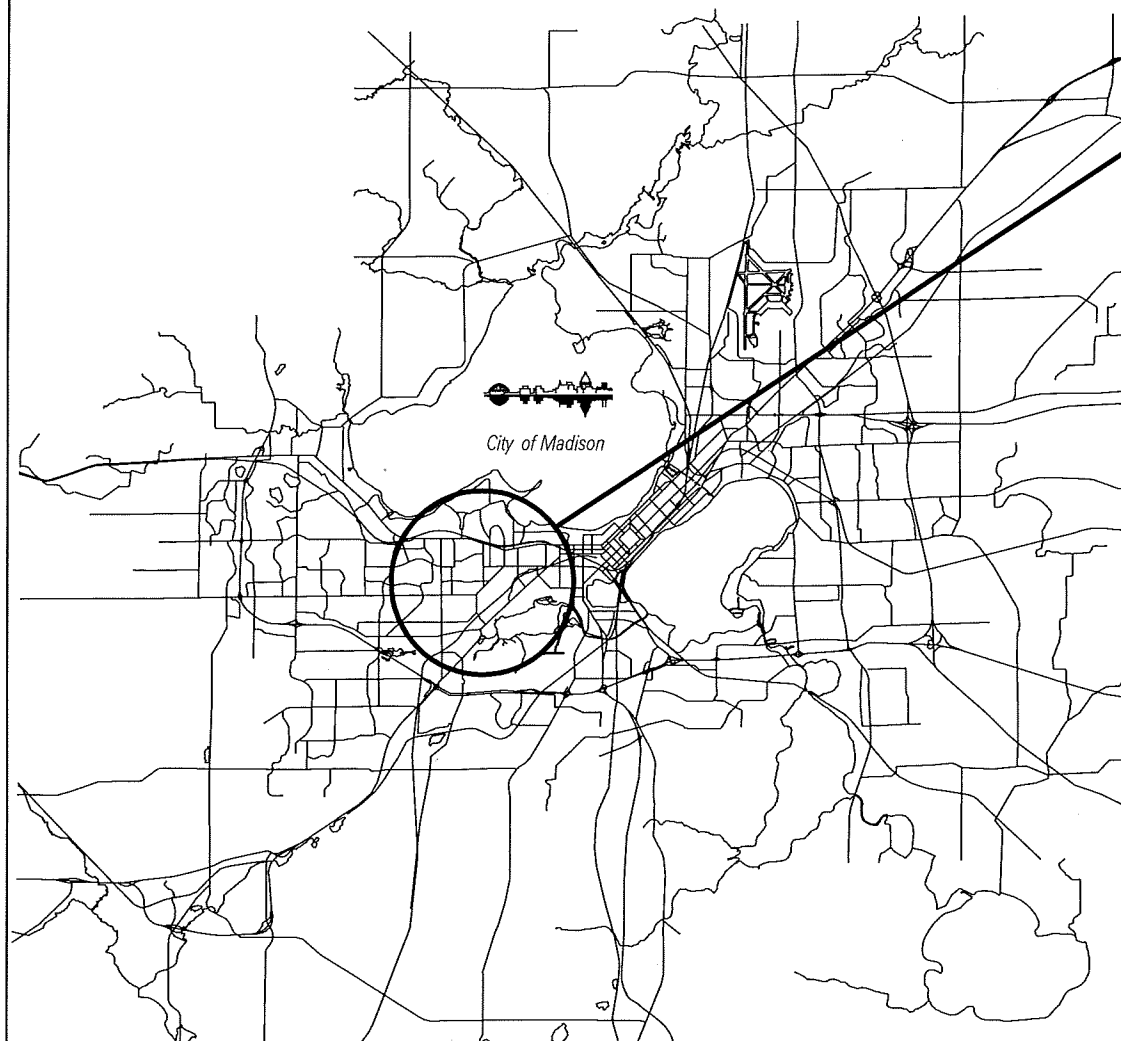
Although every effort has been made in preparing these plans and checking them for accuracy, the contractor and subcontractors must check all details and dimensions of their trade and be responsible for the same.

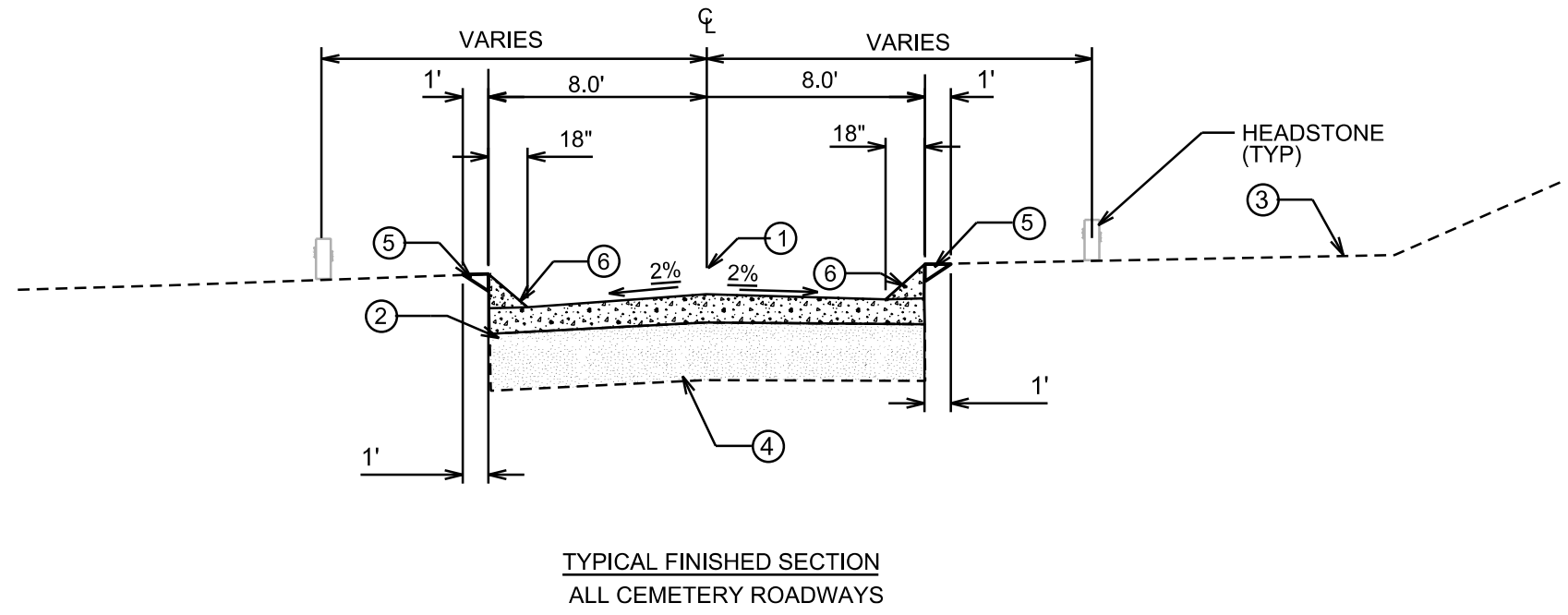
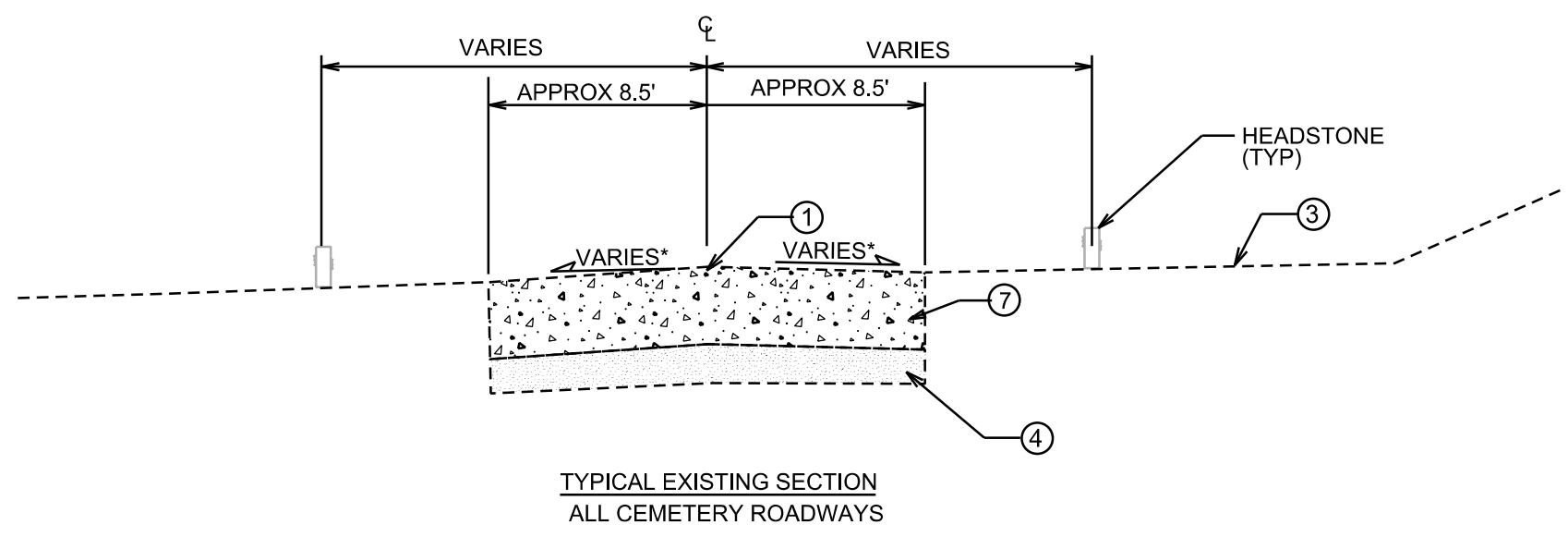
ITEM	DATE
Drawn by: CCS	4-21-17
Revised by:	

SHEET TITLE:  
**TITLE**

SHEET NUMBER:  
**1**

## PROJECT LOCATION





- ① POINT REFERRED TO ON PROFILE
- ② 3" E-0.3 ASPHALT PAVEMENT
- ③ EXISTING GROUND
- ④ PULVERIZED AND SHAPED ASPHALT AND BASE
- ⑤ GRAVEL SHOULDERING
- ⑥ 18" CARLSON SCREED EDGE OF PAVEMENT
- ⑦ EX ASPHALT PAVEMENT TO BE PULVERIZED (APPROX 7"-9")

**NOTE:**  
CARLSON SCREED RAISED EDGE OF PAVEMENT SHALL BE 4" HIGH AND 18" WIDE AND SHALL BE INCIDENTAL TO ASPHALT PAVEMENT.


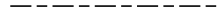

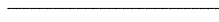

PLOT SCALE: \_\_\_\_\_

PLOT NAME: \_\_\_\_\_

REV. DATE: \_\_\_\_\_

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

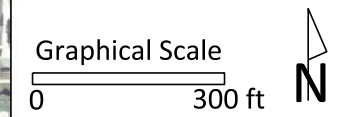


 PROPOSED STORM SEWER  
 EXISTING STORM SEWER (TO REMAIN)  
 AREAS OF CONSTRUCTION TO BE MONITORED BY ARCHEOLOGIST  
 EXISTING IRRIGATION  
 PROPOSED IRRIGATION



City of Madison  
 Department of Public Works  
**PARKS DIVISION**  
 City-County Building, Suite 104  
 210 Martin Luther King, Jr. Blvd.  
 Madison, WI 53703

*play*  
**MADISON  
 PARKS**



PROJECT:  
**FOREST HILL  
 CEMETERY  
 IMPROVEMENTS**

**FOREST HILL  
 CEMETERY  
 1 SPEEDWAY RD  
 MADISON, WI 53715**

Although every effort has been made in preparing these plans and checking them for accuracy, the contractor and subcontractors must check all details and dimensions of their trade and be responsible for the same.

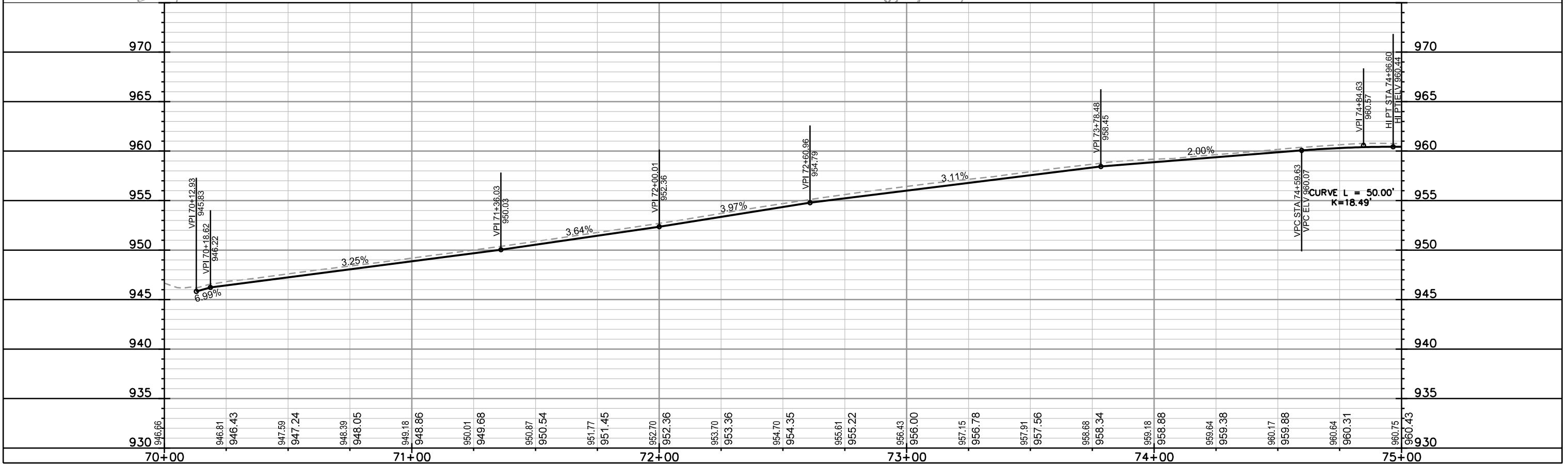
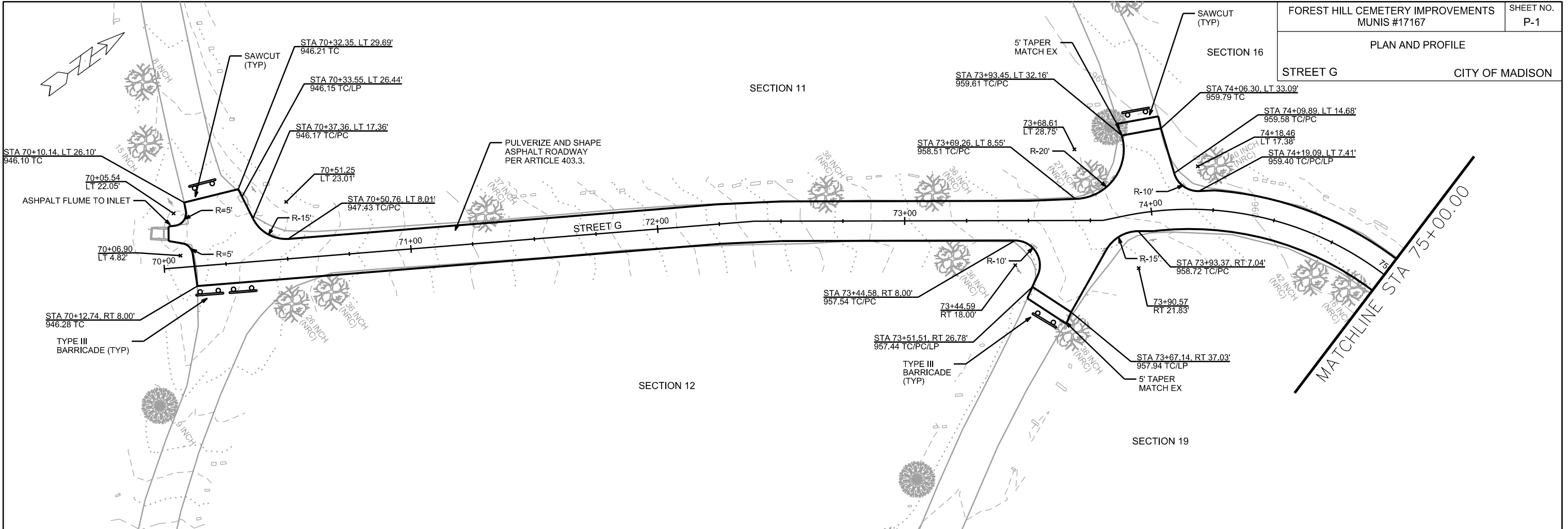
ITEM	DATE
Drawn by: CCS	1-9-2017

PUBLIC WORKS PROJECT #:  
**8002**

SHEET TITLE:  
**OVERVIEW**

SHEET NUMBER:  
**D-2**





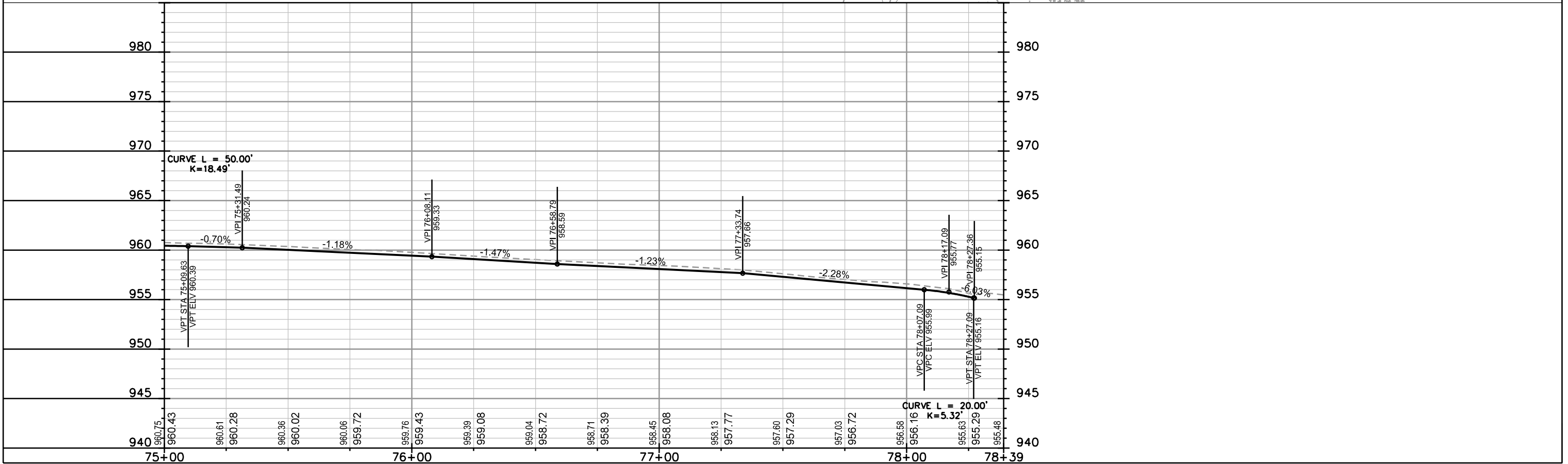
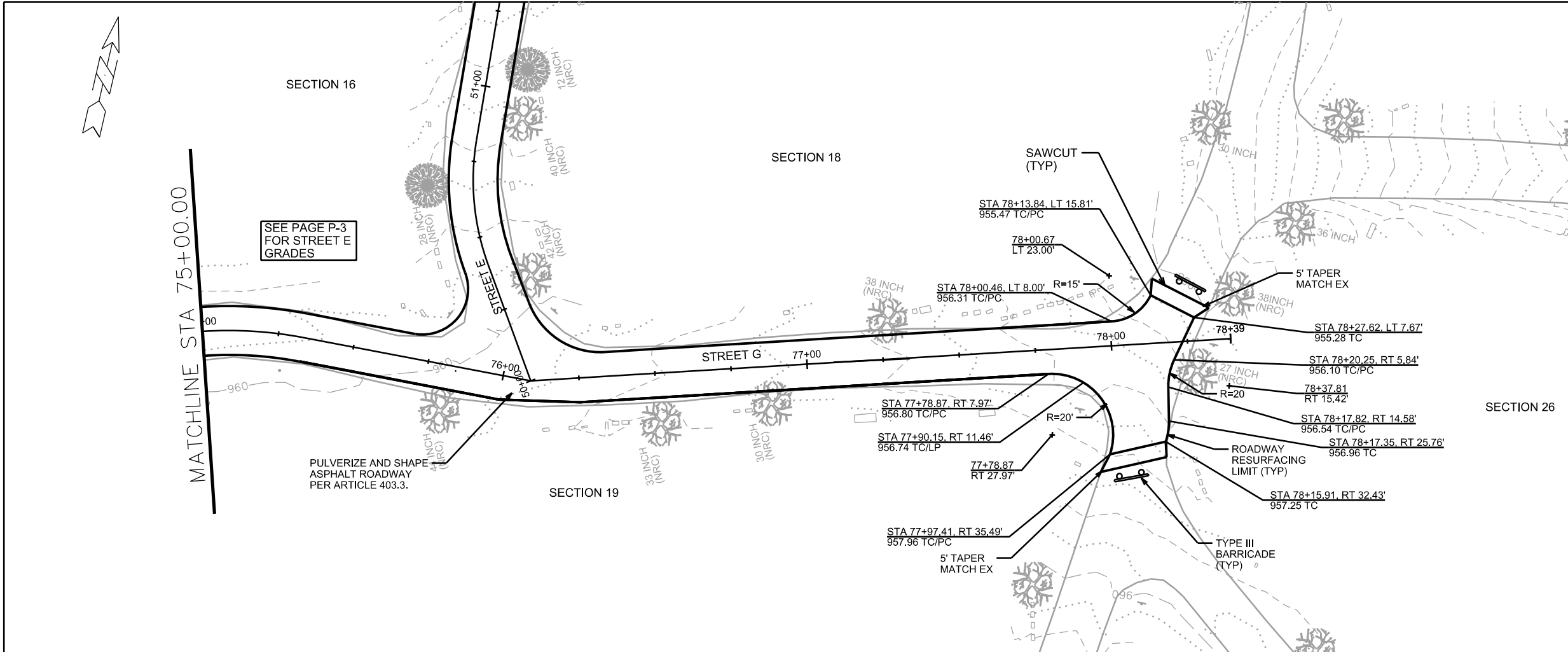
PLOT SCALE: \_\_\_\_\_

PLOT NAME: \_\_\_\_\_

REV. DATE: \_\_\_\_\_

ORIGINATOR: CITY OF MADISON, STREETS DIVISION





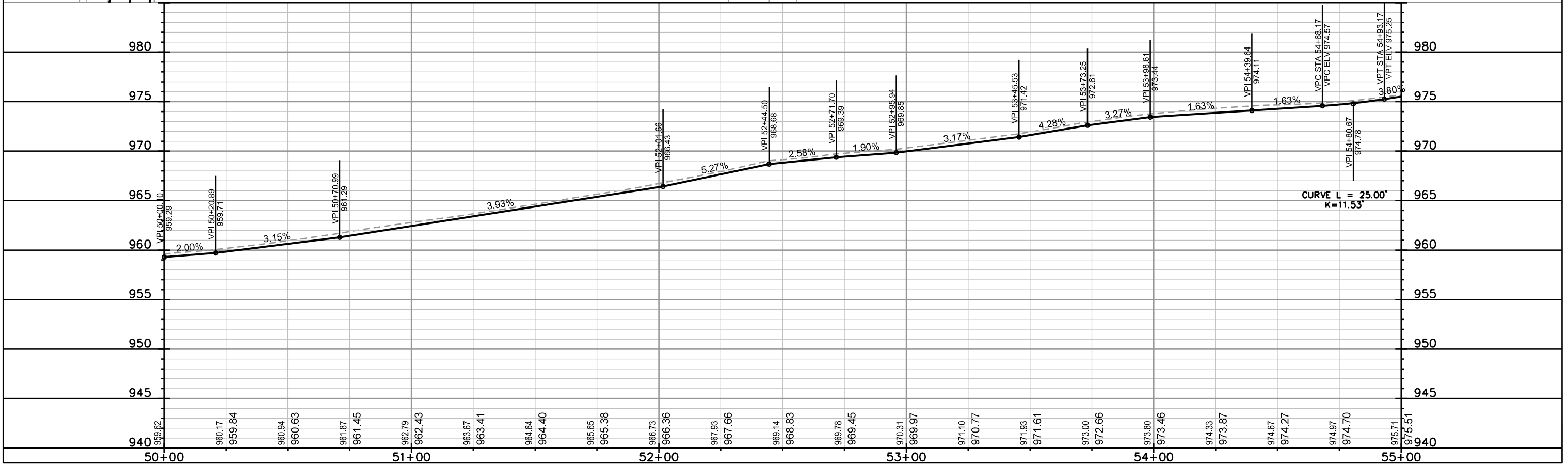
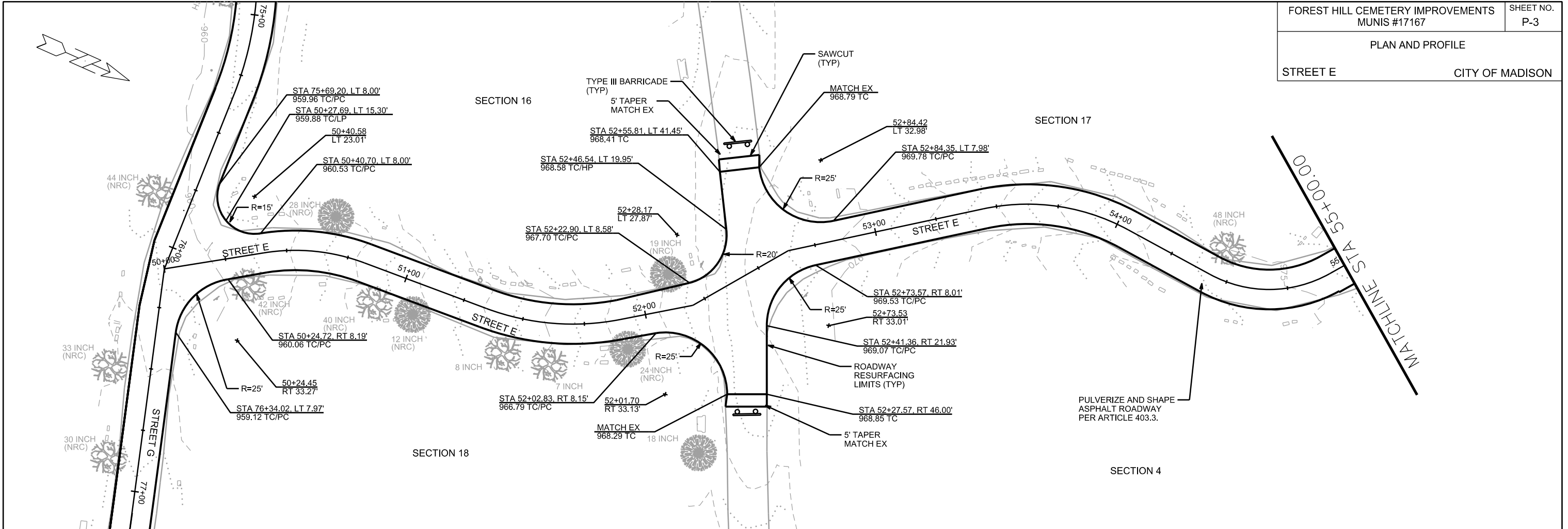
PLOT SCALE: \_\_\_\_\_

PLOT NAME: \_\_\_\_\_

REV. DATE: \_\_\_\_\_

ORIGINATOR: CITY OF MADISON, STREETS DIVISION





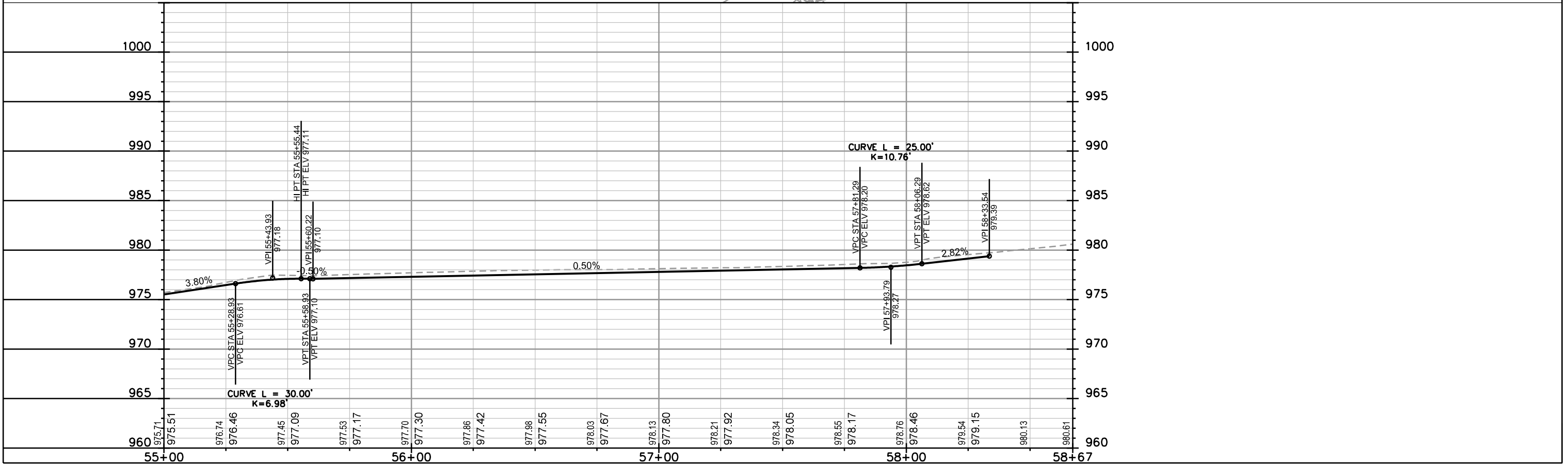
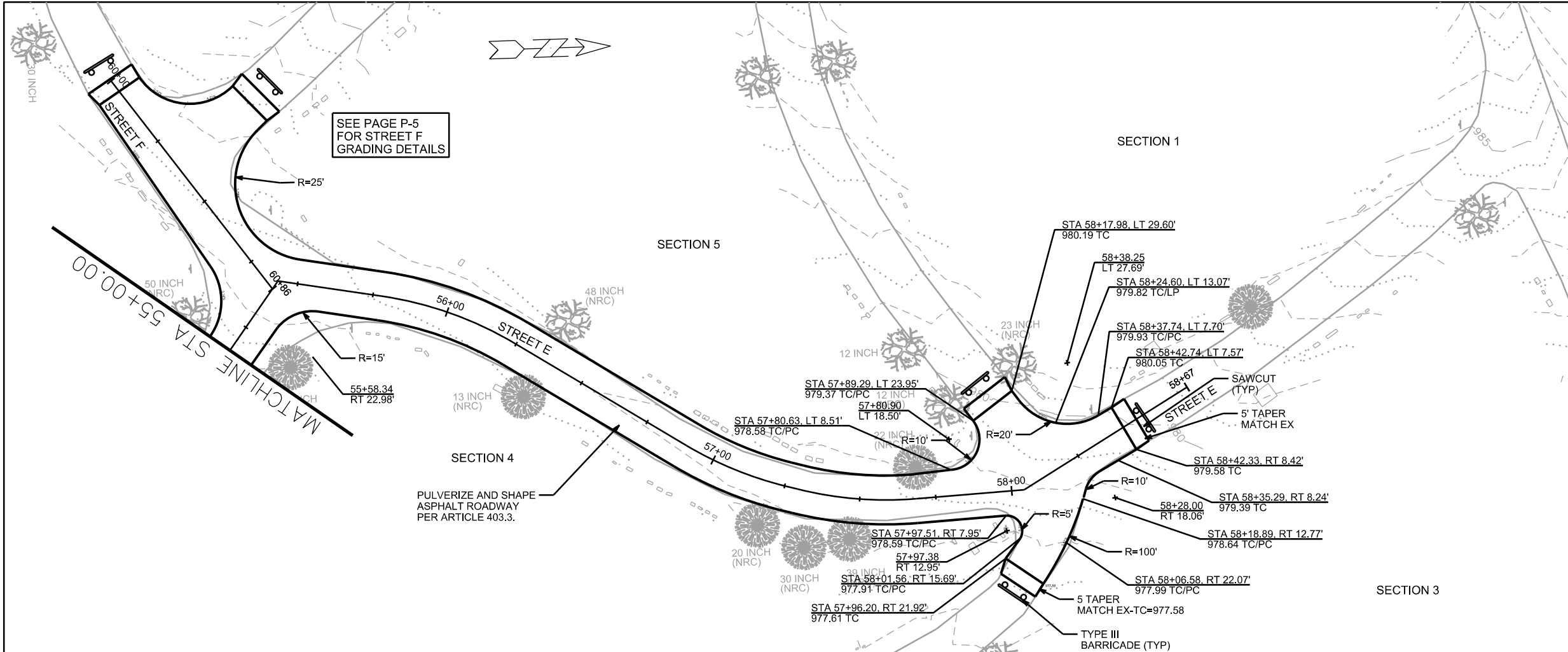
PLOT SCALE: \_\_\_\_\_

PLOT NAME: \_\_\_\_\_

REV. DATE: \_\_\_\_\_

ORIGINATOR: CITY OF MADISON, STREETS DIVISION





PLOT SCALE: \_\_\_\_\_

PLOT NAME: \_\_\_\_\_

REV. DATE: \_\_\_\_\_

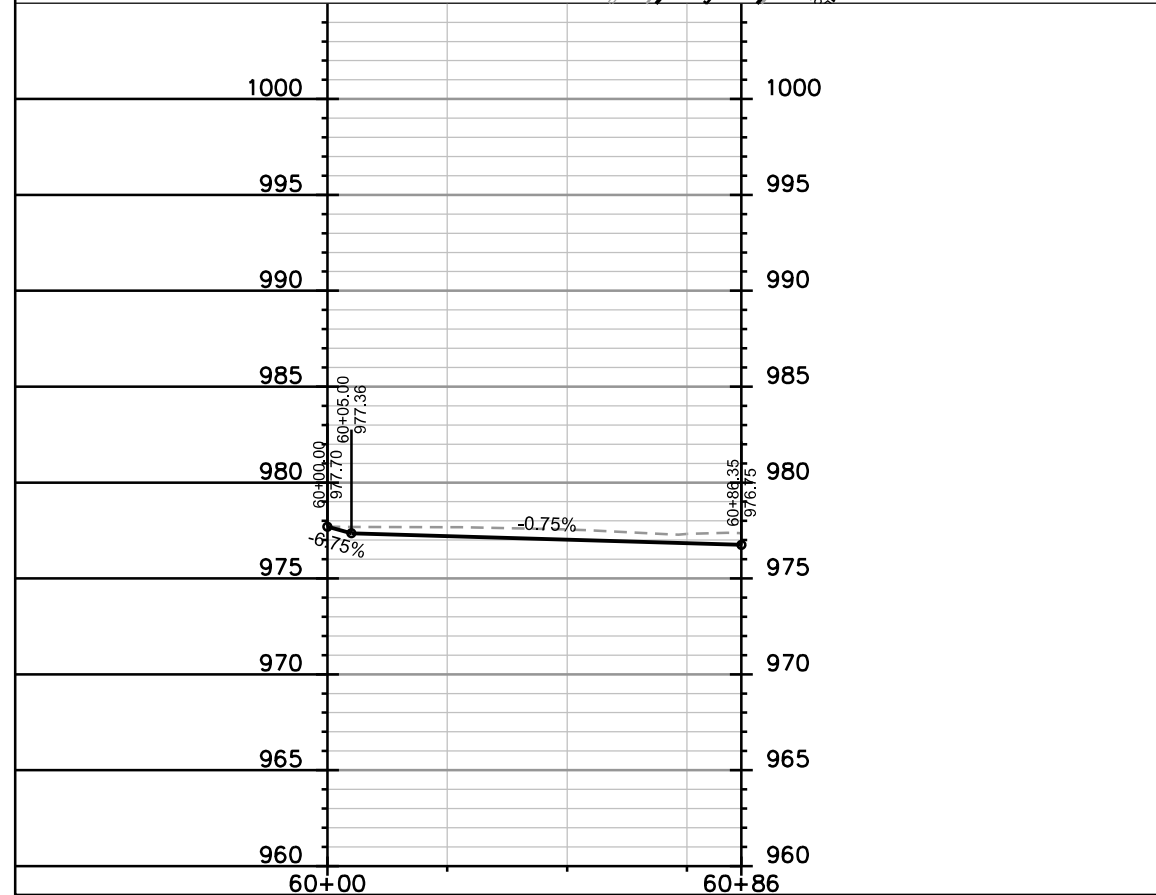
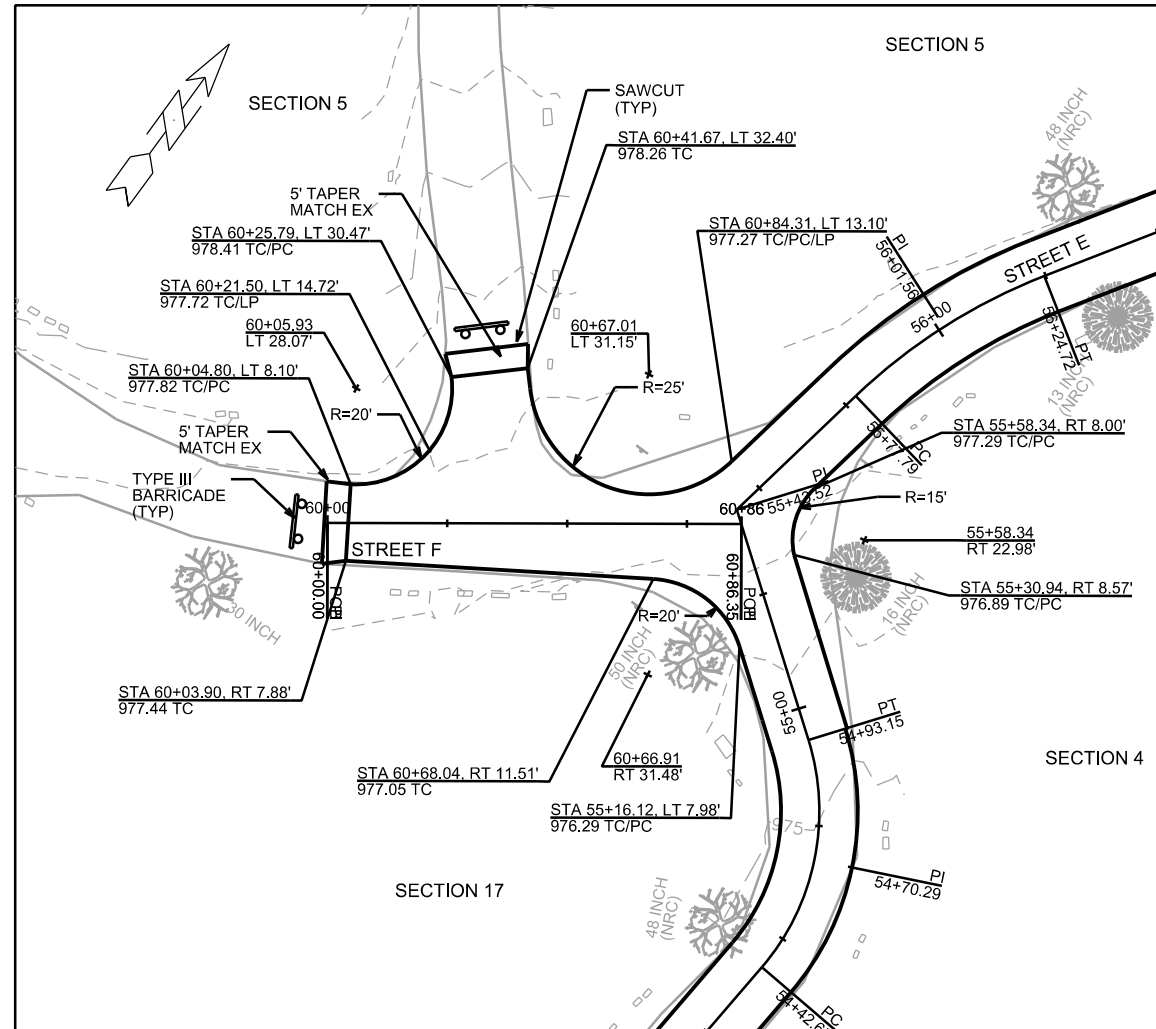
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



PLAN AND PROFILE

STREET F

CITY OF MADISON



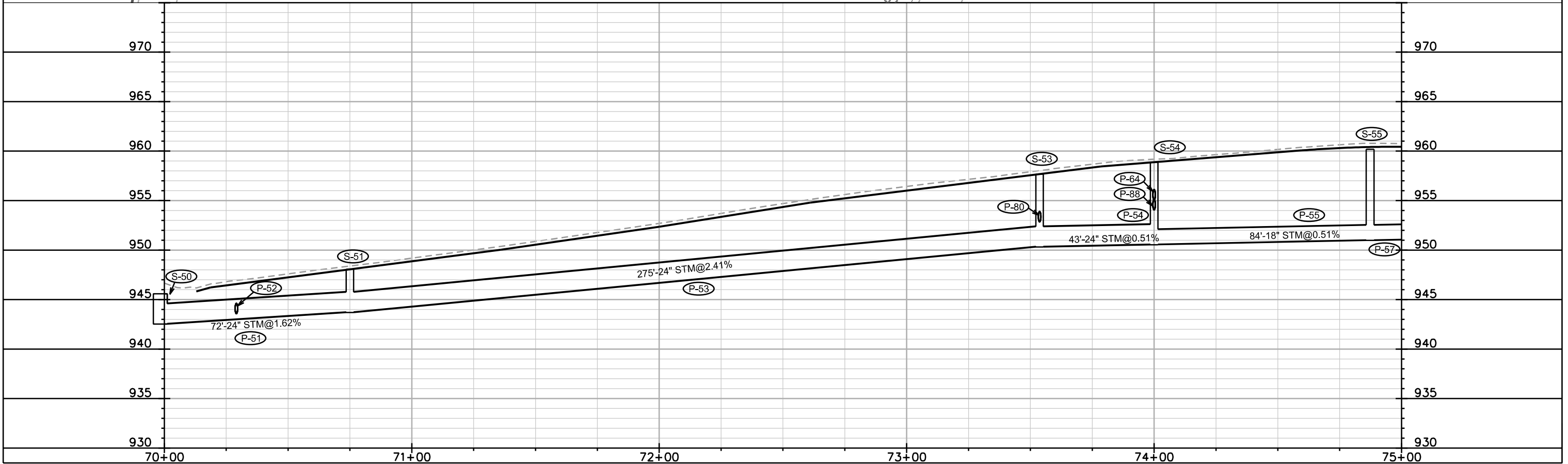
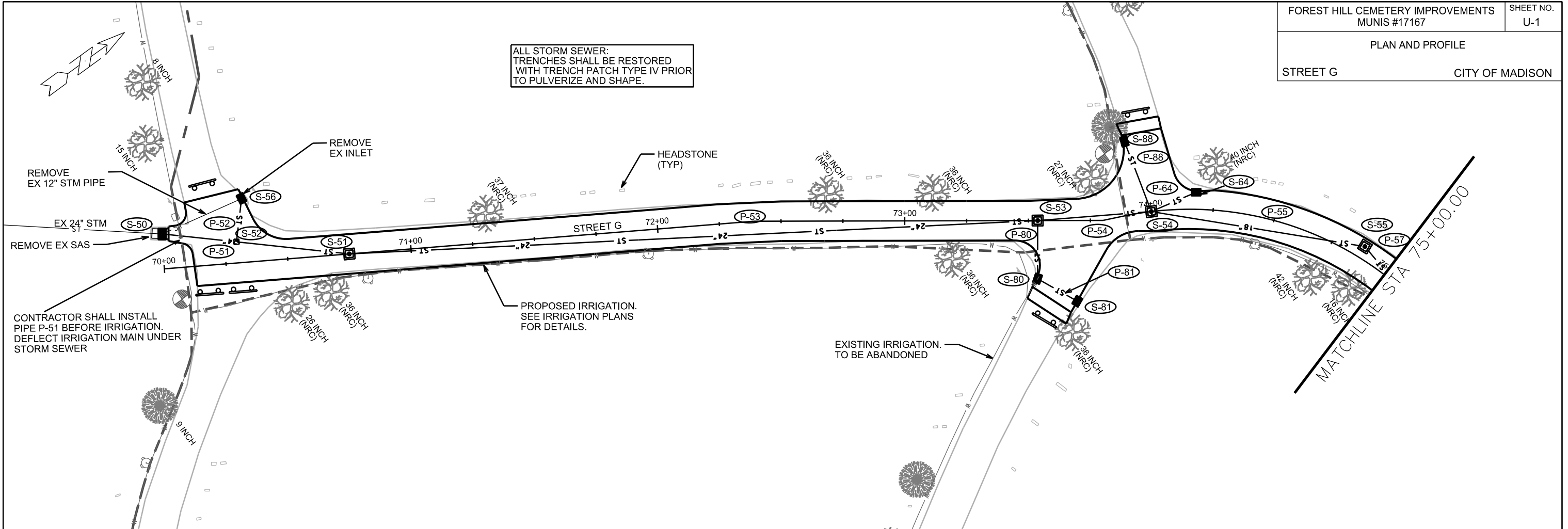
PLOT SCALE: \_\_\_\_\_

PLOT NAME: \_\_\_\_\_

REV. DATE: \_\_\_\_\_

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

ALL STORM SEWER TRENCHES SHALL BE RESTORED WITH TRENCH PATCH TYPE IV PRIOR TO PULVERIZE AND SHAPE.



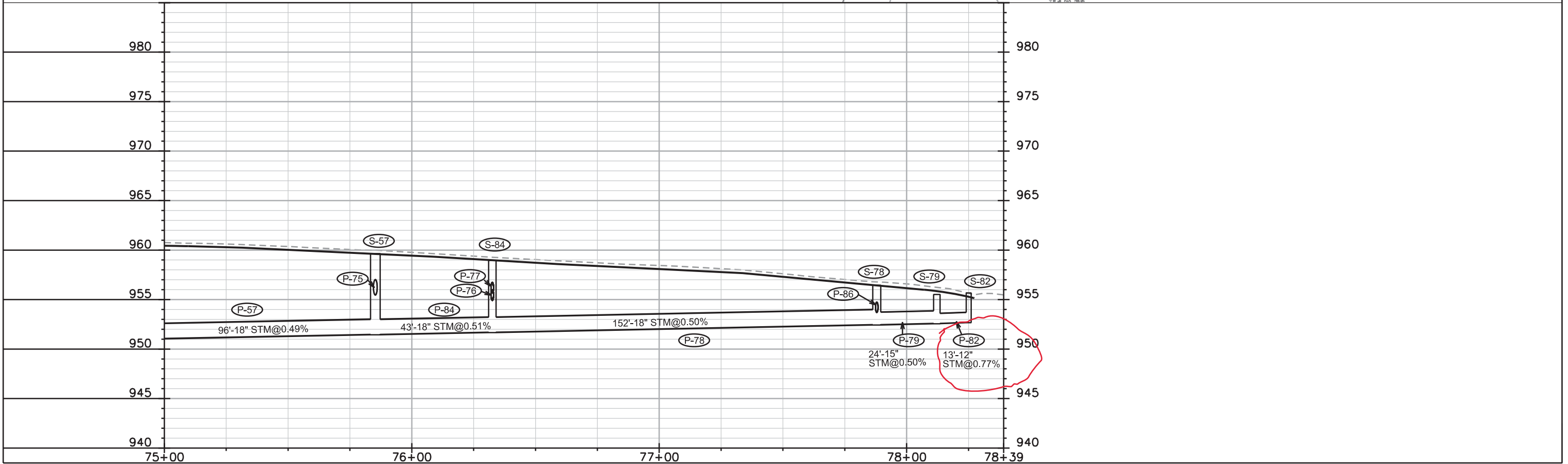
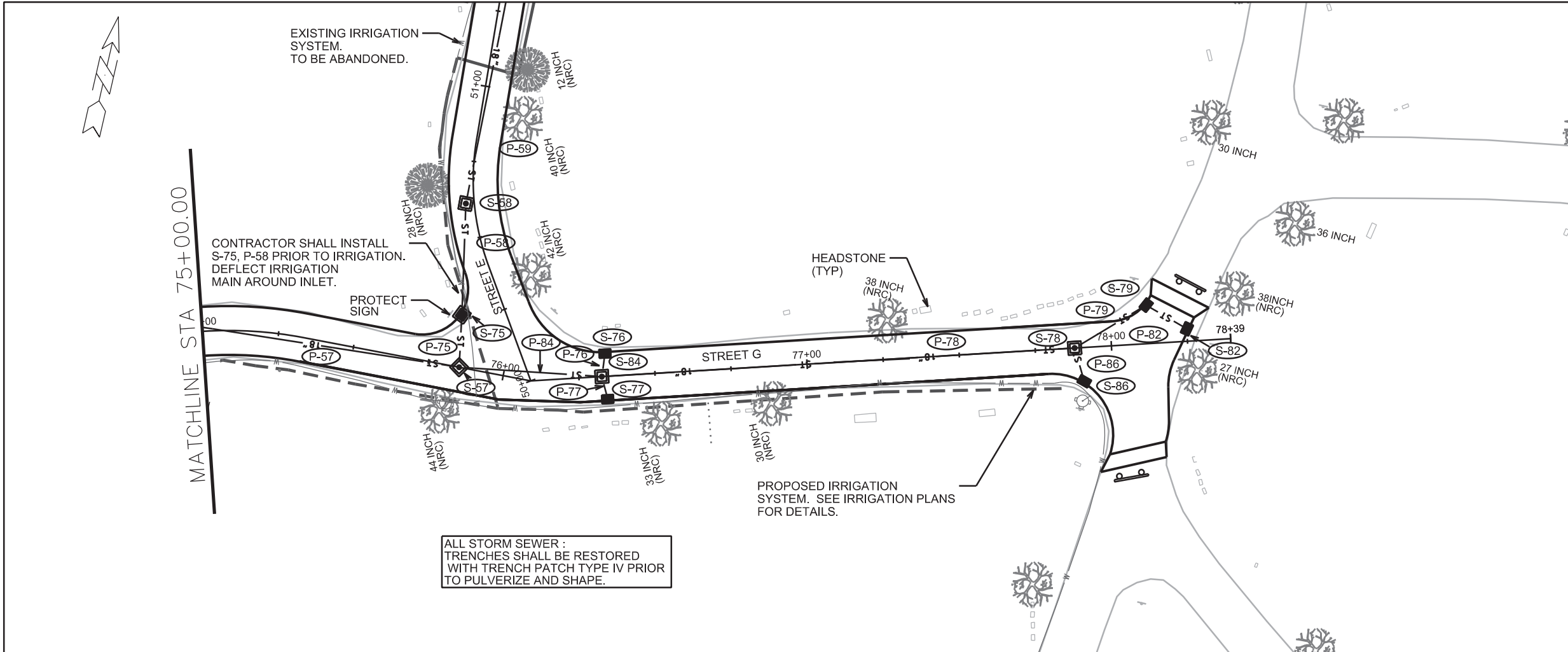
PLOT SCALE: \_\_\_\_\_

PLOT NAME: \_\_\_\_\_

REV. DATE: \_\_\_\_\_

ORIGINATOR: CITY OF MADISON, STREETS DIVISION





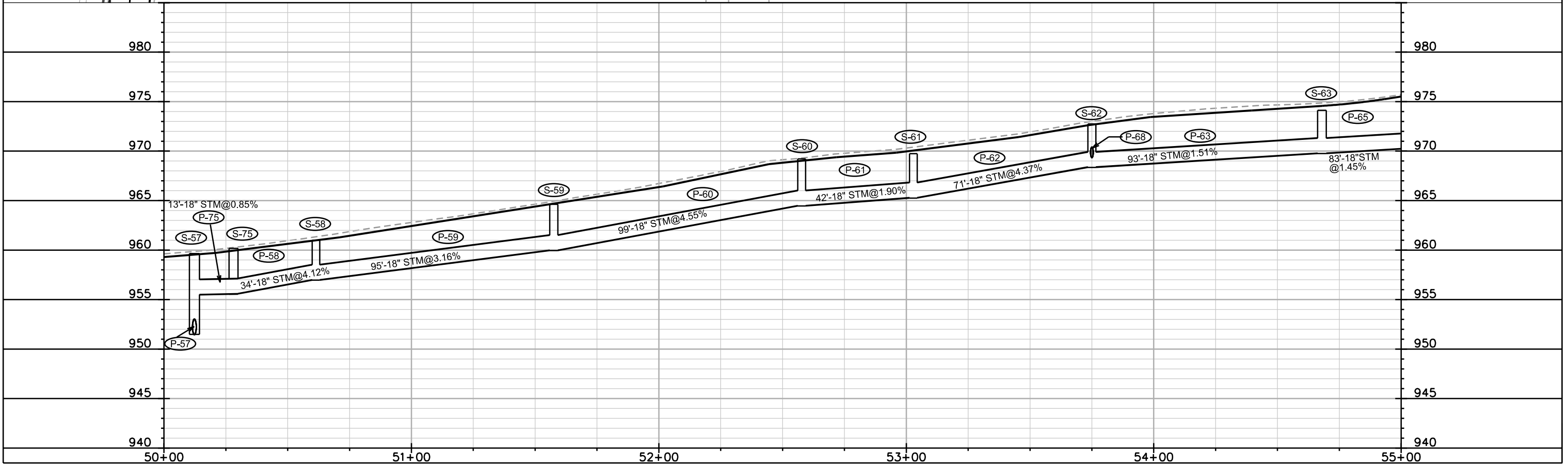
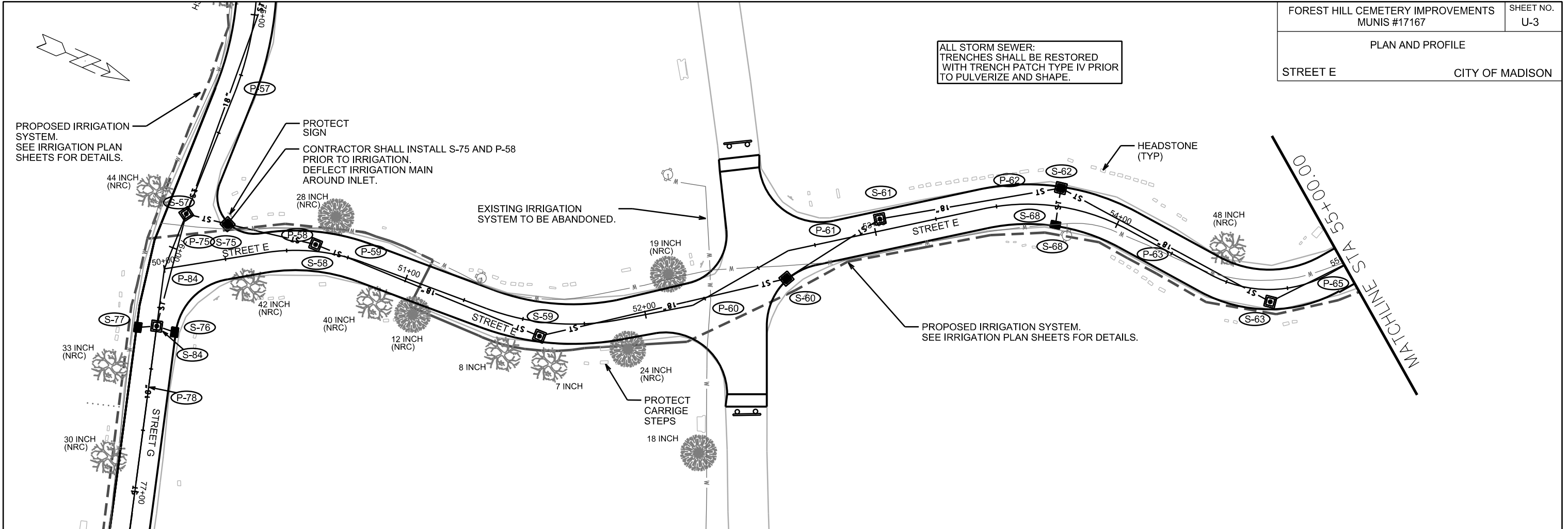
PLOT SCALE: \_\_\_\_\_

PLOT NAME: \_\_\_\_\_

REV. DATE: \_\_\_\_\_

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

ALL STORM SEWER TRENCHES SHALL BE RESTORED WITH TRENCH PATCH TYPE IV PRIOR TO PULVERIZE AND SHAPE.



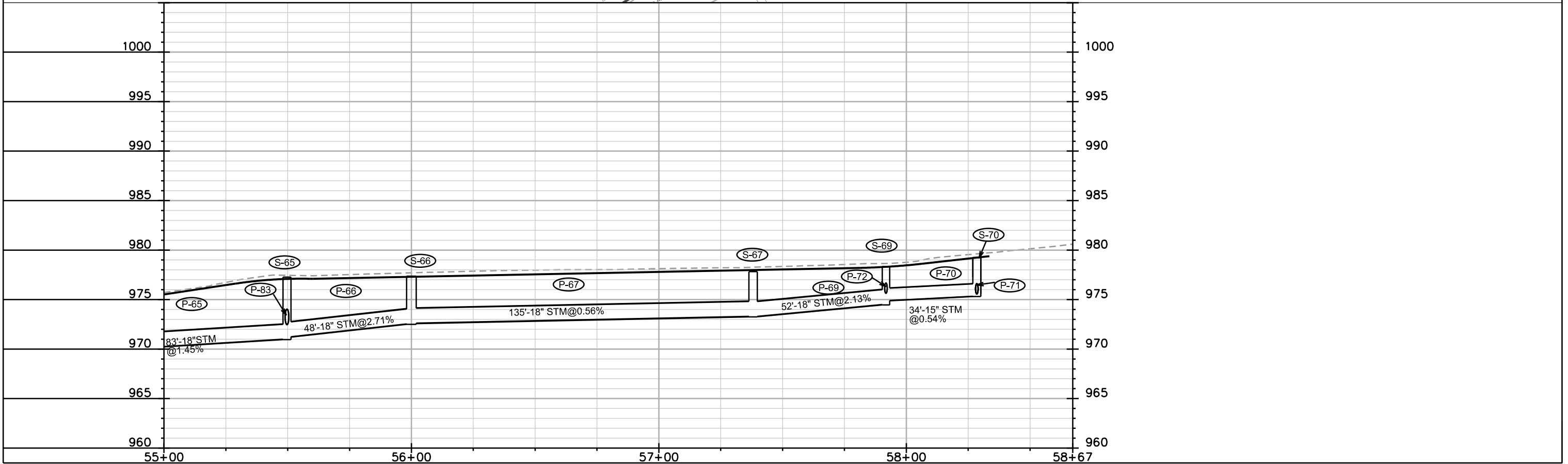
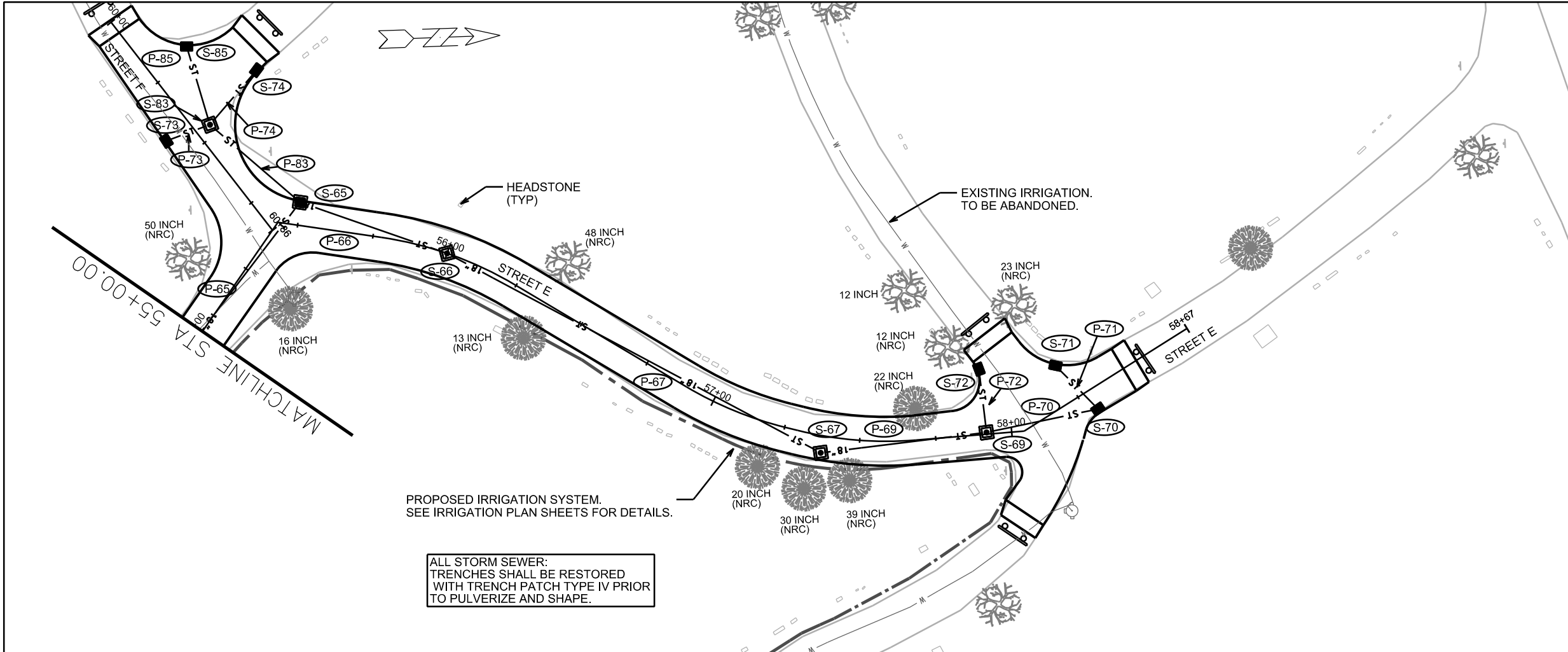
PLOT SCALE: \_\_\_\_\_

PLOT NAME: \_\_\_\_\_

REV. DATE: \_\_\_\_\_

ORIGINATOR: CITY OF MADISON, STREETS DIVISION





PLOT SCALE: \_\_\_\_\_

PLOT NAME: \_\_\_\_\_

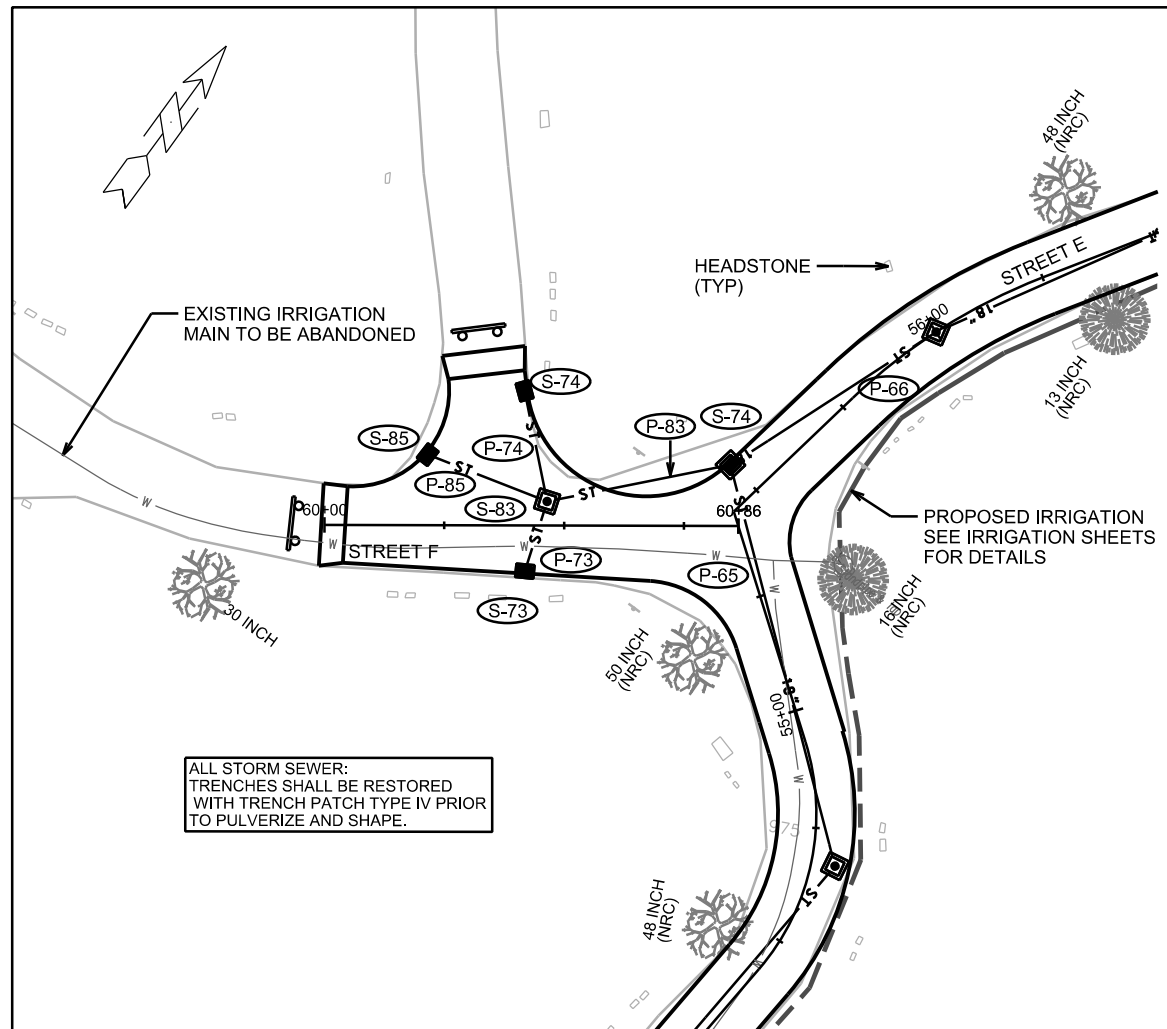
REV. DATE: \_\_\_\_\_

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

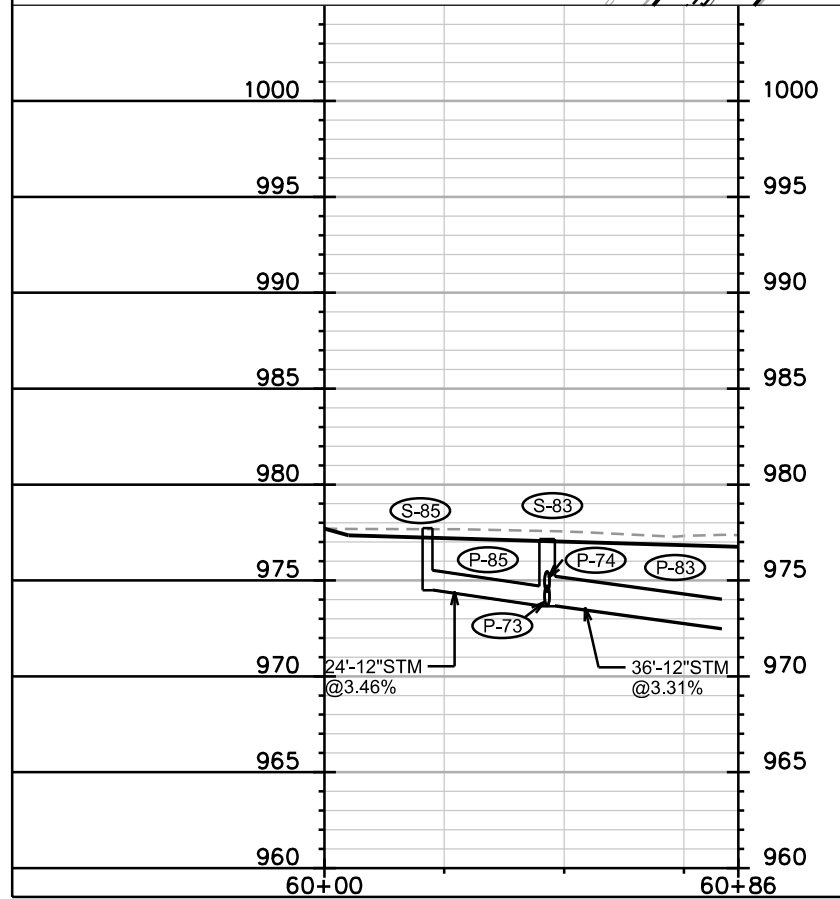
PLAN AND PROFILE

STREET F

CITY OF MADISON



ALL STORM SEWER:  
TRENCHES SHALL BE RESTORED  
WITH TRENCH PATCH TYPE IV PRIOR  
TO PULVERIZE AND SHAPE.



PLOT SCALE: \_\_\_\_\_

PLOT NAME: \_\_\_\_\_

REV. DATE: \_\_\_\_\_

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



# STORM SEWER SCHEDULE

FOREST HILL CEMETERY IMPROVEMENTS MUNIS #17167	SHEET NO. U-6
STORM SEWER SCHEDULE	
CITY OF MADISON	

## PROPOSED STORM STRUCTURES

## PROPOSED STORM PIPES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES	PIPE NO.	FROM (DNSTM)	TO (UPSTM)	DISCH. E.I.	INLET E.I.	PLAN LGTH (FT)	PIPE LGTH (FT)	SLOPE (%)	PIPE SIZE	TYPE	NOTES	
<b>STREET G</b>																			
* S-50	70+00.27	LT-14.14	TERRACE INL TYPE III	945.58	942.58	3.00	PER S.D.D. 5.7.12B	P-51	S-50	S-51	942.58	943.75	76.0	72.0	1.62%	24"	II		
S-51	70+75.00	RT-0'	3X3 SAS	948.05	943.75	4.30	W/R-1550-0054-OPEN; (2)	* P-52	S-52	S-56	<b>943.56</b>	943.75	17.0	16.0	1.19%	12"	II	NCM	
* S-52	70+29.96	LT-8.56	24"X12" TEE	---	<b>943.56</b>	---	PLACE MARKER BALL	P-53	S-51	S-53	943.75	950.37	278	275.0	2.41%	24"	II		
S-53	73+53.73	RT-0'	3X3 SAS	957.68	950.37	7.31	W/R-1550-0054-OPEN	P-54	S-53	S-54	950.37	950.59	46.0	43.0	0.51%	24"	II		
* S-54	74+00.00	RT-0'	3X3 SAS	958.87	950.59	8.28	W/R-1550-0054-OPEN	P-55	S-54	S-55	950.59	951.02	87.0	84.0	0.51%	18"	II		
S-55	74+87.31	LT-4.94	3X3 SAS	960.26	951.02	9.24	W/R-1550-0054-OPEN	P-57	S-55	S-57	951.02	951.49	99.0	96.0	0.49%	18"	II		
S-56	70+33.37	LT-25.85	H INLET	946.15	943.75	2.40	LP; FP; W/R-3067-7004-VB; (1)	P-58	S-75	S-58	955.60	957.00	37.0	34.0	4.12%	18"	II		
S-57	75+85.27	RT-0'	3X3 SAS	959.60	951.49	8.11	W/R-1550-0054-OPEN	P-59	S-58	S-59	957.00	960.00	98.0	95.0	3.16%	18"	II		
* S-64	74+18.02	LT-6.90	H INLET	<b>959.58</b>	956.20	3.38	LP; W/R-3067-7004-VB	P-60	S-59	S-60	960.00	964.50	103.0	99.0	4.55%	18"	II		
* S-75	75+82.94	LT-17.04	3X3 SAS	960.05	955.60	4.45	W/R-3067-7004-V	P-61	S-60	S-61	964.50	965.30	45.0	42.0	1.90%	18"	II		
* S-76	76+34.02	LT-7.47	H INLET	<b>959.12</b>	955.80	<b>3.32</b>	W/R-3067-7004-V	P-62	S-61	S-62	965.30	968.40	74.0	71.0	4.37%	18"	II		
* S-77	76+34.02	RT-7.50	H INLET	<b>959.12</b>	955.80	3.32	W/R-3067-7004-V	P-63	S-62	S-63	968.40	969.80	96.0	93.0	1.51%	18"	II		
S-78	77+87.92	RT-0'	3X3 SAS	956.43	952.47	3.96	W/R-1550-0054-OPEN	P-64	S-54	S-64	955.09	956.20	20.0	17.0	6.53%	12"	II	NCM	
S-79	78+12.19	LT-12.63	H INLET	955.56	952.59	2.97	W/R-3067-7004-V	P-65	S-63	S-65	969.80	971.00	86.0	83.0	1.45%	18"	II		
S-80	73+53.63	RT-23.48	H INLET	957.44	954.20	3.24	LP; W/R-3067-7004-VB	P-66	S-65	S-66	971.25	972.55	51.0	48.0	2.71%	18"	II	NCM	
S-81	73+69.65	RT-32.62	H INLET	957.98	954.78	3.20	W/R-3067-7004-V	P-67	S-66	S-67	972.55	973.30	139.0	135.0	0.56%	18"	II		
S-82	78+25.08	LT-4.06	H INLET	955.69	952.69	3.00	W/R-3067-7004-V	P-68	S-62	S-68	969.35	969.42	15.0	12.0	0.58%	12"	II	NCM	
S-84	76+32.55	RT-0'	3X3 SAS	958.97	951.71	7.26	W/R-1550-0054-OPEN	P-69	S-67	S-69	973.30	974.41	55.0	52.0	2.13%	18"	II		
S-86	77+90.43	RT-11.04	H INLET	956.74	953.54	3.20	LP; W/R-3067-7004-VB	P-70	S-69	S-70	975.16	975.34	37.0	34.0	0.54%	15"	II		
S-88	73+93.96	LT-29.57	H INLET	959.61	956.31	3.30	W/R-3067-7004-V	P-71	S-70	S-71	975.59	975.71	20.0	17.0	0.71%	12"	II	NCM	
<b>STREET E</b>																			
S-58	50+61.43	LT-2.76	3X3 SAS	961.03	957.00	4.03	W/R-1550-0054-OPEN	P-72	S-69	S-72	975.66	976.00	21.0	18.0	1.91%	12"	II	NCM	
* S-59	51+57.55	RT-5.75	3X3 SAS	<b>964.57</b>	960.00	4.57	W/R-1550-0054-OPEN	P-73	S-83	S-73	973.69	973.80	15.0	12.0	0.92%	12"	II		
S-60	52+57.73	RT-9.42	3X3 SAS	969.31	964.50	4.81	W/R-3067-7004-V	P-74	S-83	S-74	974.44	974.85	24.0	20.0	2.05%	12"	II	NCM	
S-61	53+02.83	LT-4.76	3X3 SAS	969.97	965.30	4.67	W/R-1550-0054-OPEN	* P-75	S-57	S-75	955.49	955.60	17	13.0	0.85%	18"	II	NCM	
* S-62	53+75.00	LT-7.50	3X3 SAS	972.83	968.40	4.43	W/R-3067-7004-V	P-76	S-84	S-76	955.71	<b>955.80</b>	8.0	5.0	<b>1.80%</b>	12"	II	NCM	
S-63	54+67.98	RT-4.99	3X3 SAS	974.45	969.80	4.65	W/R-1550-0054-OPEN	P-77	S-84	S-77	955.71	955.80	8.0	5.0	1.80%	12"	II	NCM	
S-66	56+00.00	RT-0'	3X3 SAS	977.30	972.55	4.75	W/R-1550-0054-OPEN	P-78	S-84	S-78	951.71	952.47	155.0	152.0	0.50%	18"	II		
S-67	57+38.08	RT-5.62	3X3 SAS	977.86	973.30	4.56	W/R-1550-0054-OPEN	P-79	S-78	S-79	952.47	952.59	27.0	24.0	0.50%	15"	II		
S-68	53+75.00	RT-7.51	H INLET	972.77	969.42	3.35	W/R-3067-7004-V	P-80	S-53	S-80	952.87	954.20	23.0	20.0	6.65%	12"	II	NCM	
* S-69	57+91.77	LT-0.59	3X3 SAS	978.36	974.41	3.95	W/R-1550-0054-OPEN	P-81	S-80	S-81	954.20	954.78	19.0	16.0	3.62%	12"	II		
S-70	58+28.50	RT-6.79	H INLET	979.39	975.34	4.05	W/R-3067-7004-V	* P-82	<b>S-79</b>	S-82	<b>952.59</b>	952.69	16.0	13.0	<b>0.77%</b>	12"	II		
S-71	58+24.26	LT-12.71	H INLET	979.82	975.71	4.11	LP; W/R-3067-7004-VB	P-83	S-65	S-83	972.50	973.69	39.0	36.0	3.31%	18"	II	NCM	
S-72	57+90.97	LT-21.46	H INLET	979.37	976.00	3.37	W/R-3067-7004-V	P-84	S-57	S-84	951.49	951.71	47.0	43.0	0.51%	18"	II		
* S-75	50+28.10	LT-13.79	3X3 SAS	<b>959.88</b>	<b>954.70</b>	<b>8.18</b>	LP; W/R-3067-7004-VB	P-85	S-83	S-85	973.69	974.52	27.0	24.0	3.46%	12"	II		
<b>STREET F</b>																			
* S-65	60+84.66	LT-12.75	3X3 SAS	977.27	971.00	6.27	LP; W/R-3067-7004-VB	P-86	S-78	S-86	953.47	953.54	11.0	8.0	0.87%	12"	II	NCM	
S-83	60+46.44	LT-5.03	3X3 SAS	977.16	973.69	3.47	W/R-1550-0054-OPEN	P-88	S-54	S-88	954.09	956.31	30.0	27.0	8.22%	12"	II	NCM	
* S-73	60+41.85	RT-9.52	H INLET	977.21	973.80	3.41	W/R-3067-7004-V												
* S-74	60+41.69	LT-28.08	H INLET	978.16	974.85	3.31	W/R-3067-7004-V												
* S-85	60+21.50	LT-14.72	H INLET	977.72	974.52	3.20	LP; W/R-3067-7004-VB												

**NOTE:** PLAN LENGTH IS FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE. PIPE LENGTH IS ACTUAL LENGTH OF PIPE FROM STRUCTURE WALL TO STRUCTURE WALL. SLOPE CALCULATED USING PIPE LENGTH.

### STANDARD NOTES:

- ABBREVIATIONS: AE = APRON ENDWALL; RCP = REINFORCED CONCRETE PIPE; HERCP = HORIZONTAL ELLIPTICAL REINFORCED CONCRETE PIPE; DNA = DOES NOT APPLY; SAS = SEWER ACCESS STRUCTURE; LP = LOW POINT INLET STRUCTURE; FP = FIELD POURED STRUCTURE; TR = TOP OF CONCRETE ROOF; NCM = NO CROWN MATCH FOR PIPES; UD = UNDERDRAIN

- APPROXIMATE DISCHARGE E.I. GIVEN, ADJUST E.I. AND PIPE SLOPE IN THE FIELD.

- TOP OF CASTING GRADE GIVEN IS THE TOP OF CURB FOR INLET STRUCTURES AND THE FLOWLINE OF THE CLOSED CASTING FOR SAS's.

- TOP OF CONCRETE ROOF (TR) IS 1.25' BELOW TOP OF CASTING UNLESS OTHERWISE NOTED.

- IF SELECTED- ALL REINFORCED CONCRETE PIPES TO BE CLASS III UNLESS OTHERWISE NOTED.

- SURVEYOR TO CONFIRM THAT ALL INLET STATION / OFFSETS LINE UP WITH PROPOSED CURB AND GUTTER.

- ALL STRUCTURES CALLED OUT AS FIELD POURED SHALL BE FIELD POURED. ALL OTHER STRUCTURES (NOT INDICATED AS FIELD POURED) SHALL BE SUBMITTED TO CITY PARKS FOR APPROVAL IF PRECAST STRUCTURES ARE PREFERRED. CONTACT COREY STELLJES OF CITY PARKS AT (608) 266-6518 FOR PRECAST APPROVALS, EMAIL SHOP DRAWINGS TO CSTELLJES@CITYOFMADISON.COM.

### SPECIFIC NOTES

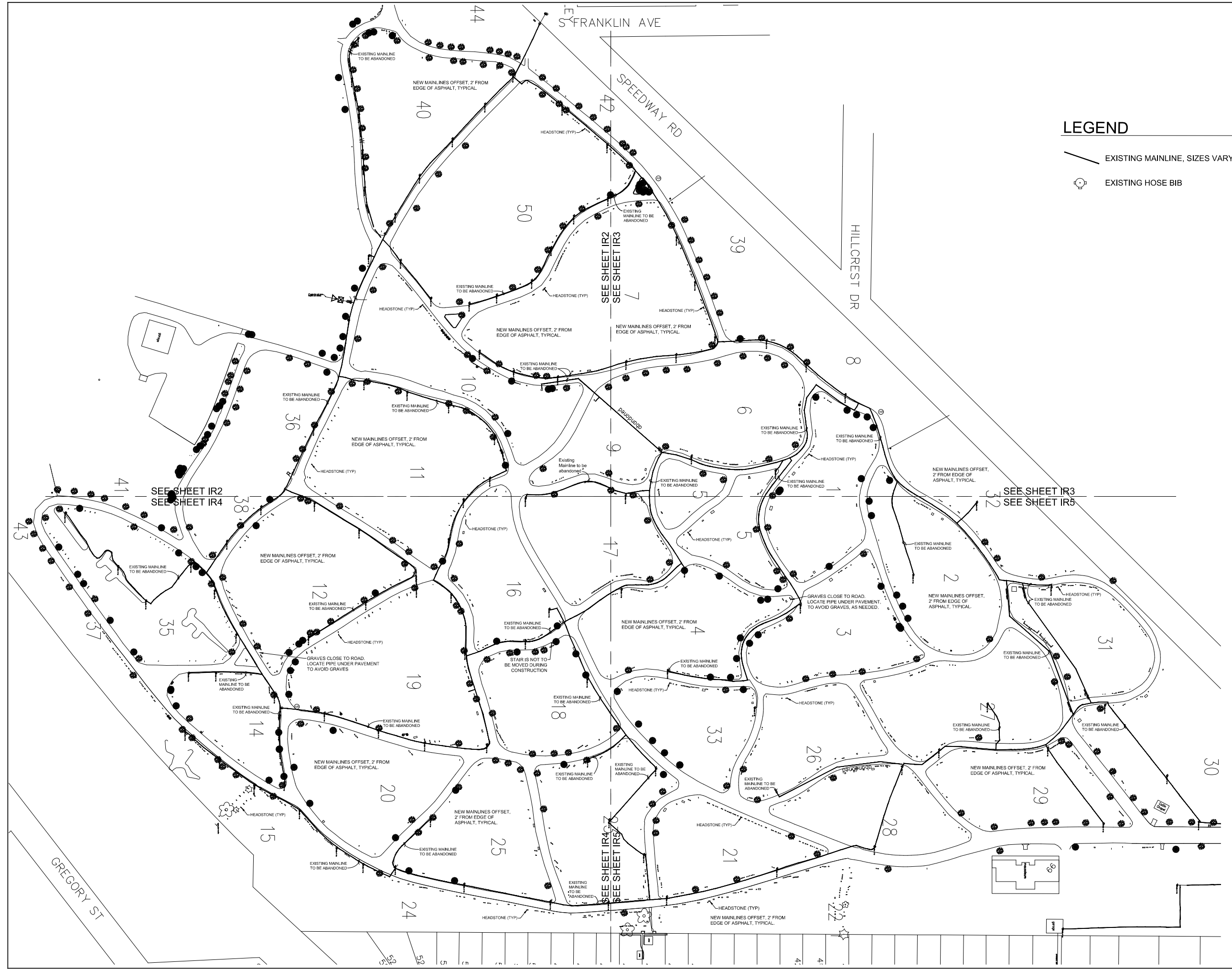
(1) STRUCTURE DEPTH REQUIRES THAT PIPE WALL BE POURED INTO STRUCTURE ROOF

(2) STRUCTURE DEPTH REQUIRES USE OF 4" CASTING

REVISIONS

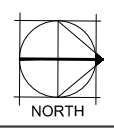
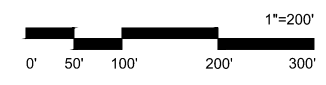
DATE: 04/21/17  
DRAWN: JDS  
CHECKED: DPF  
DOCUMENT NO.

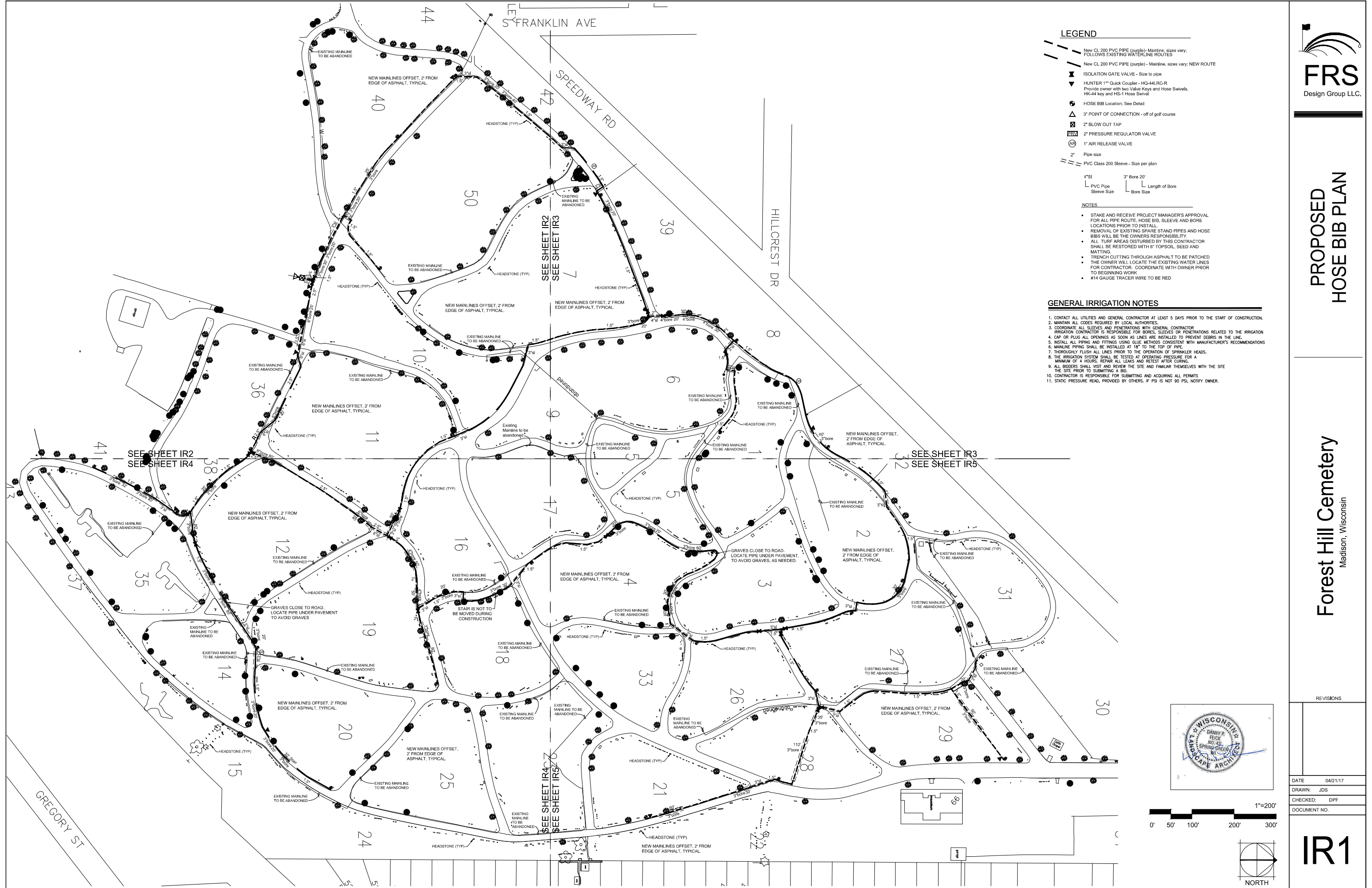
IR1.1



LEGEND

- EXISTING MAINLINE, SIZES VARY;
- EXISTING HOSE BIB





**LEGEND**

- New CL 200 PVC PIPE (purple) - Mainline, sizes vary; FOLLOWS EXISTING WATERLINE ROUTES
- New CL 200 PVC PIPE (purple) - Mainline, sizes vary; NEW ROUTE
- ISOLATION GATE VALVE - Size to pipe
- HUNTER 1" Quick Coupler - HQ-44RC-R. Provide owner with two Valve Keys and Hose Swivels. HK-44 key and HS-1 Hose Swivel
- HOSE BIB Location; See Detail
- 3" POINT OF CONNECTION - off of golf course
- 2" BLOW OUT TAP
- 2" PRESSURE REGULATOR VALVE
- 1" AIR RELEASE VALVE
- Pipe size
- PVC Class 200 Sleeve - Size per plan
- 4"SI PVC Pipe Sleeve Size
- 3" Bore 20" Length of Bore Bore Size

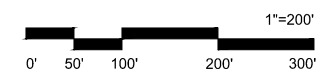
- NOTES**
- STAKE AND RECEIVE PROJECT MANAGER'S APPROVAL FOR ALL PIPE ROUTE, HOSE BIB, SLEEVE AND BORE LOCATIONS PRIOR TO INSTALL.
  - REMOVAL OF EXISTING SPARE STAND PIPES AND HOSE BIBS WILL BE THE OWNERS RESPONSIBILITY.
  - ALL TURF AREAS DISTURBED BY THIS CONTRACTOR SHALL BE RESTORED WITH 6" TOPSOIL, SEED AND MATTING.
  - TRENCH CUTTING THROUGH ASPHALT TO BE PATCHED
  - THE OWNER WILL LOCATE THE EXISTING WATER LINES FOR CONTRACTOR. COORDINATE WITH OWNER PRIOR TO BEGINNING WORK
  - #14 GAUGE TRACER WIRE TO BE RED

- GENERAL IRRIGATION NOTES**
1. CONTACT ALL UTILITIES AND GENERAL CONTRACTOR AT LEAST 5 DAYS PRIOR TO THE START OF CONSTRUCTION.
  2. MAINTAIN ALL CODES REQUIRED BY LOCAL AUTHORITIES.
  3. COORDINATE ALL SLEEVES AND PENETRATIONS WITH GENERAL CONTRACTOR
  4. CAP OR PLUG ALL OPENINGS AS SOON AS LINES ARE INSTALLED TO PREVENT DEBRIS IN THE LINE.
  5. INSTALL ALL PIPING AND FITTINGS USING GLUE METHODS CONSISTENT WITH MANUFACTURER'S RECOMMENDATIONS
  6. MAINLINE PIPING SHALL BE INSTALLED AT 15' TO THE TOP OF PIPE.
  7. THOROUGHLY FLUSH ALL LINES PRIOR TO THE OPERATION OF SPRINKLER HEADS.
  8. THE IRRIGATION SYSTEM SHALL BE TESTED AT OPERATING PRESSURE FOR A MINIMUM OF 4 HOURS. REPAIR ALL LEAKS AND RETEST AFTER CURING.
  9. ALL BIDDERS SHALL VISIT AND REVIEW THE SITE AND FAMILIAR THEMSELVES WITH THE SITE THE SITE PRIOR TO SUBMITTING A BID.
  10. CONTRACTOR IS RESPONSIBLE FOR SUBMITTING AND ACQUIRING ALL PERMITS
  11. STATIC PRESSURE READ, PROVIDED BY OTHERS. IF PSI IS NOT 90 PSI, NOTIFY OWNER.



**PROPOSED HOSE BIB PLAN**

**Forest Hill Cemetery**  
Madison, Wisconsin



REVISIONS	

DATE: 04/21/17  
DRAWN: JDS  
CHECKED: DPF  
DOCUMENT NO.

**IR1**



**LEGEND**

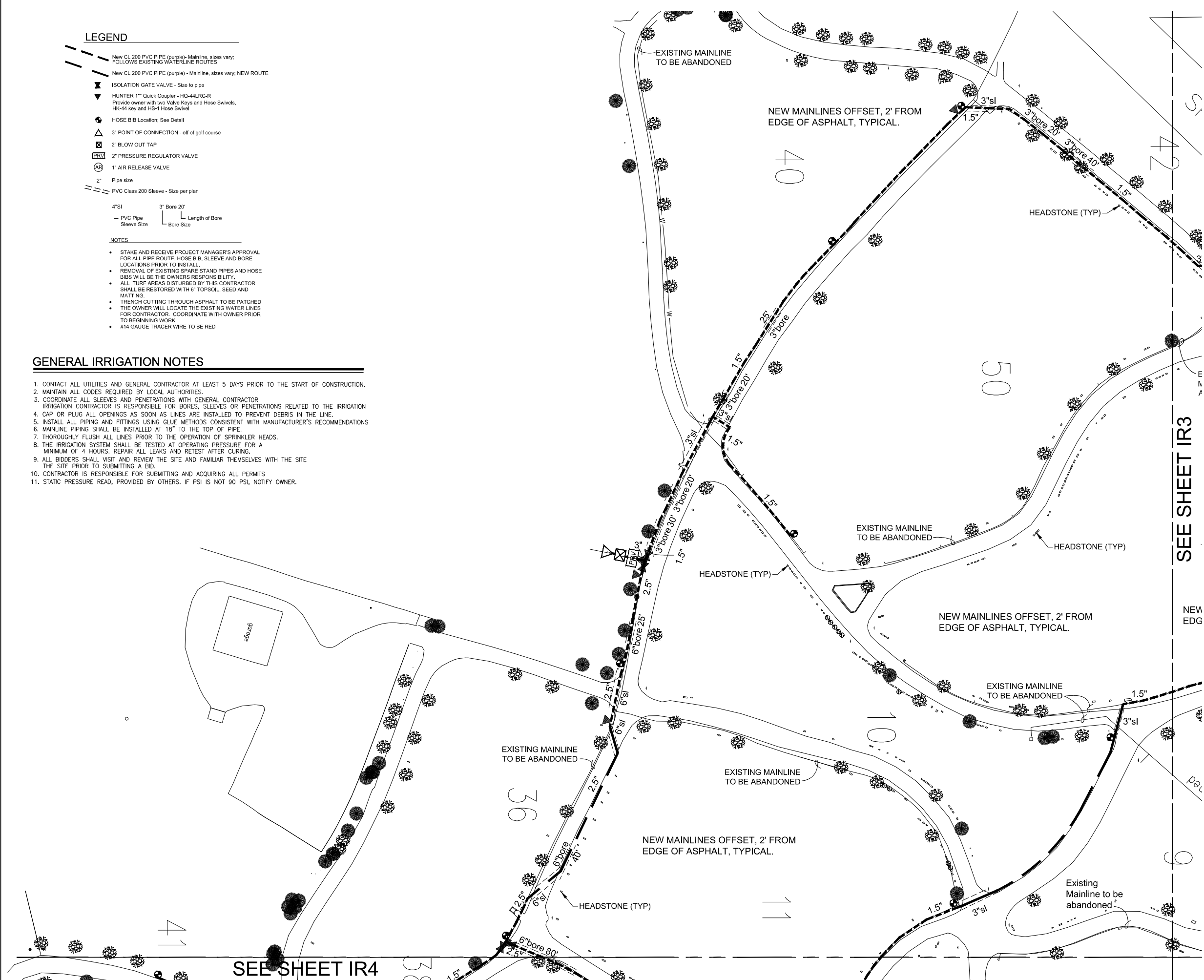
- New CL 200 PVC PIPE (purple) - Mainline, sizes vary; FOLLOWS EXISTING WATERLINE ROUTES
  - New CL 200 PVC PIPE (purple) - Mainline, sizes vary; NEW ROUTE
  - ISOLATION GATE VALVE - Size to pipe
  - HUNTER 1" Quick Coupler - HQ-44LRC-R  
Provide owner with two Valve Keys and Hose Swivels, HK-44 key and HS-1 Hose Swivel
  - HOSE BIB Location; See Detail
  - 3" POINT OF CONNECTION - off of golf course
  - 2" BLOW OUT TAP
  - 2" PRESSURE REGULATOR VALVE
  - 1" AIR RELEASE VALVE
  - 2" Pipe size
  - PVC Class 200 Sleeve - Size per plan
- 4" SI PVC Pipe Sleeve Size  
 3" Bore 20' Length of Bore Bore Size

**NOTES**

- STAKE AND RECEIVE PROJECT MANAGER'S APPROVAL FOR ALL PIPE ROUTE, HOSE BIB, SLEEVE AND BORE LOCATIONS PRIOR TO INSTALL.
- REMOVAL OF EXISTING SPARE STAND PIPES AND HOSE BIBS WILL BE THE OWNER'S RESPONSIBILITY.
- ALL TURF AREAS DISTURBED BY THIS CONTRACTOR SHALL BE RESTORED WITH 6" TOPSOIL, SEED AND MATTING.
- TRENCH CUTTING THROUGH ASPHALT TO BE PATCHED.
- THE OWNER WILL LOCATE THE EXISTING WATER LINES FOR CONTRACTOR. COORDINATE WITH OWNER PRIOR TO BEGINNING WORK.
- #14 GAUGE TRACER WIRE TO BE RED.

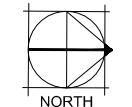
**GENERAL IRRIGATION NOTES**

1. CONTACT ALL UTILITIES AND GENERAL CONTRACTOR AT LEAST 5 DAYS PRIOR TO THE START OF CONSTRUCTION.
2. MAINTAIN ALL CODES REQUIRED BY LOCAL AUTHORITIES.
3. COORDINATE ALL SLEEVES AND PENETRATIONS WITH GENERAL CONTRACTOR. IRRIGATION CONTRACTOR IS RESPONSIBLE FOR BORES, SLEEVES OR PENETRATIONS RELATED TO THE IRRIGATION.
4. CAP OR PLUG ALL OPENINGS AS SOON AS LINES ARE INSTALLED TO PREVENT DEBRIS IN THE LINE.
5. INSTALL ALL PIPING AND FITTINGS USING GLUE METHODS CONSISTENT WITH MANUFACTURER'S RECOMMENDATIONS.
6. MAINLINE PIPING SHALL BE INSTALLED AT 18" TO THE TOP OF PIPE.
7. THOROUGHLY FLUSH ALL LINES PRIOR TO THE OPERATION OF SPRINKLER HEADS.
8. THE IRRIGATION SYSTEM SHALL BE TESTED AT OPERATING PRESSURE FOR A MINIMUM OF 4 HOURS. REPAIR ALL LEAKS AND RETEST AFTER CURING.
9. ALL BIDDERS SHALL VISIT AND REVIEW THE SITE AND FAMILIAR THEMSELVES WITH THE SITE PRIOR TO SUBMITTING A BID.
10. CONTRACTOR IS RESPONSIBLE FOR SUBMITTING AND ACQUIRING ALL PERMITS.
11. STATIC PRESSURE READ, PROVIDED BY OTHERS. IF PSI IS NOT 90 PSI, NOTIFY OWNER.

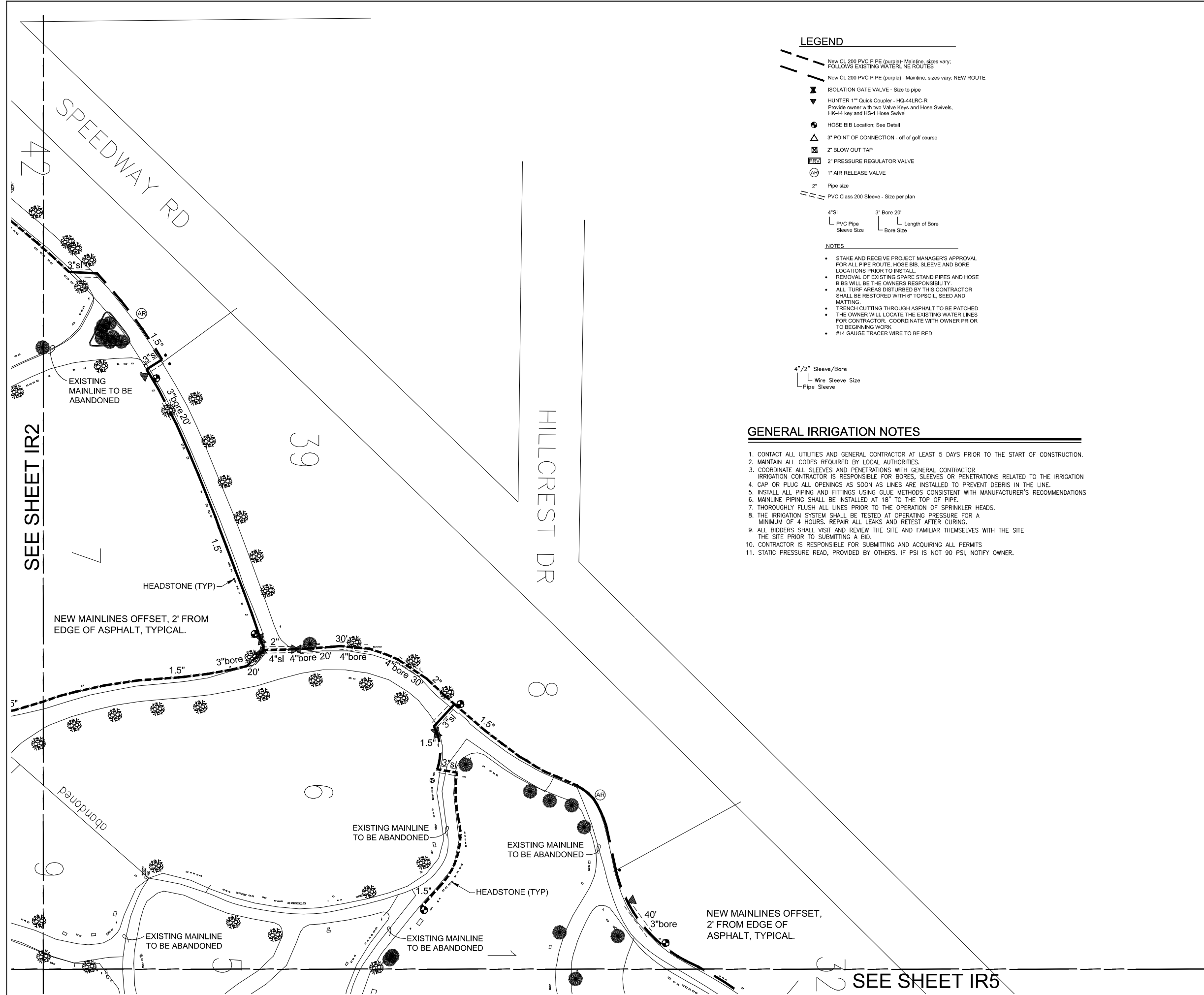


SEE SHEET IR3

SEE SHEET IR4

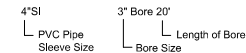






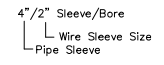
**LEGEND**

- New CL 200 PVC PIPE (purple) - Mainline, sizes vary; FOLLOWS EXISTING WATERLINE ROUTES
- New CL 200 PVC PIPE (purple) - Mainline, sizes vary; NEW ROUTE
- ISOLATION GATE VALVE - Size to pipe
- HUNTER 1" Quick Coupler - HQ-44LRC-R  
Provide owner with two Valve Keys and Hose Swivels, HK-44 key and HS-1 Hose Swivel
- HOSE BIB Location; See Detail
- 3" POINT OF CONNECTION - off of golf course
- 2" BLOW OUT TAP
- 2" PRESSURE REGULATOR VALVE
- 1" AIR RELEASE VALVE
- 2" Pipe size
- PVC Class 200 Sleeve - Size per plan



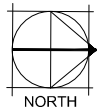
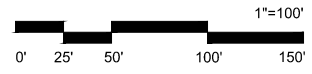
**NOTES**

- STAKE AND RECEIVE PROJECT MANAGER'S APPROVAL FOR ALL PIPE ROUTE, HOSE BIB, SLEEVE AND BORE LOCATIONS PRIOR TO INSTALL.
- REMOVAL OF EXISTING SPARE STAND PIPES AND HOSE BIBS WILL BE THE OWNER'S RESPONSIBILITY.
- ALL TURF AREAS DISTURBED BY THIS CONTRACTOR SHALL BE RESTORED WITH 6" TOPSOIL, SEED AND MATTING.
- TRENCH CUTTING THROUGH ASPHALT TO BE PATCHED
- THE OWNER WILL LOCATE THE EXISTING WATER LINES FOR CONTRACTOR. COORDINATE WITH OWNER PRIOR TO BEGINNING WORK
- #14 GAUGE TRACER WIRE TO BE RED



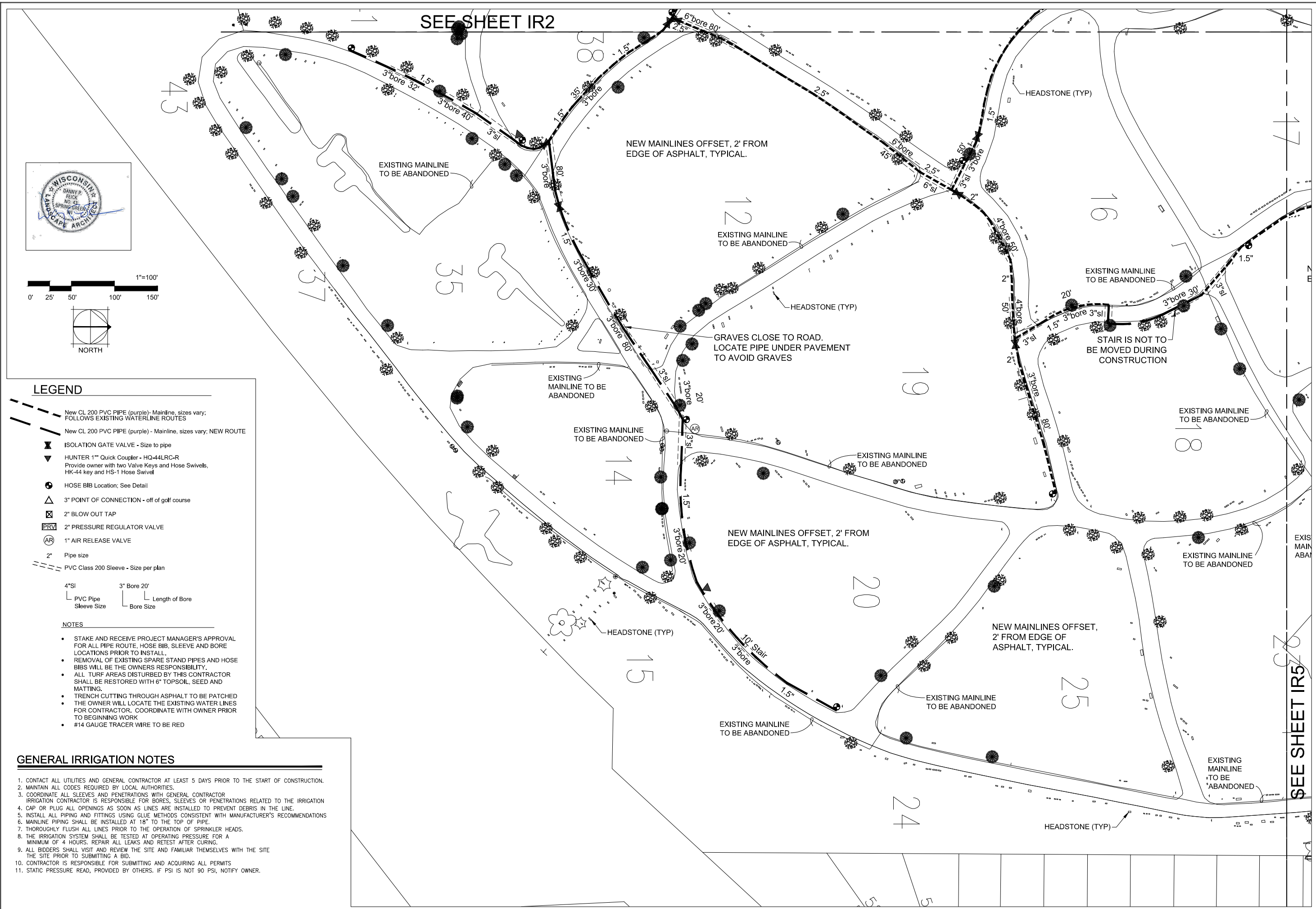
**GENERAL IRRIGATION NOTES**

1. CONTACT ALL UTILITIES AND GENERAL CONTRACTOR AT LEAST 5 DAYS PRIOR TO THE START OF CONSTRUCTION.
2. MAINTAIN ALL CODES REQUIRED BY LOCAL AUTHORITIES.
3. COORDINATE ALL SLEEVES AND PENETRATIONS WITH GENERAL CONTRACTOR. IRRIGATION CONTRACTOR IS RESPONSIBLE FOR BORES, SLEEVES OR PENETRATIONS RELATED TO THE IRRIGATION.
4. CAP OR PLUG ALL OPENINGS AS SOON AS LINES ARE INSTALLED TO PREVENT DEBRIS IN THE LINE.
5. INSTALL ALL PIPING AND FITTINGS USING GLUE METHODS CONSISTENT WITH MANUFACTURER'S RECOMMENDATIONS.
6. MAINLINE PIPING SHALL BE INSTALLED AT 18" TO THE TOP OF PIPE.
7. THOROUGHLY FLUSH ALL LINES PRIOR TO THE OPERATION OF SPRINKLER HEADS.
8. THE IRRIGATION SYSTEM SHALL BE TESTED AT OPERATING PRESSURE FOR A MINIMUM OF 4 HOURS. REPAIR ALL LEAKS AND RETEST AFTER CURING.
9. ALL BIDDERS SHALL VISIT AND REVIEW THE SITE AND FAMILIAR THEMSELVES WITH THE SITE THE SITE PRIOR TO SUBMITTING A BID.
10. CONTRACTOR IS RESPONSIBLE FOR SUBMITTING AND ACQUIRING ALL PERMITS.
11. STATIC PRESSURE READ, PROVIDED BY OTHERS. IF PSI IS NOT 90 PSI, NOTIFY OWNER.



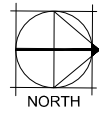
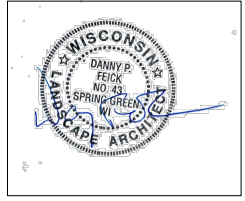
SEE SHEET IR5

SEE SHEET IR2



SEE SHEET IR2

SEE SHEET IR5



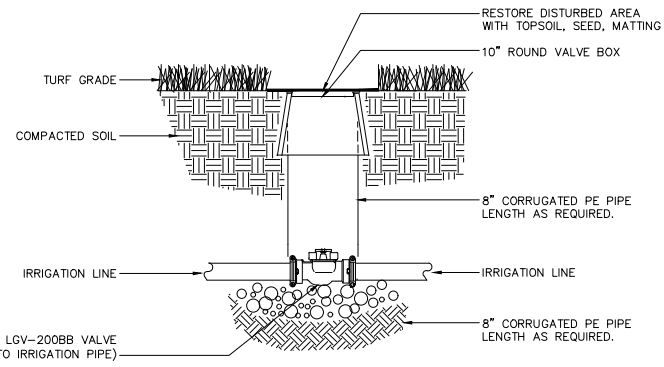
- LEGEND**
- New CL 200 PVC PIPE (purple) - Mainline, sizes vary; FOLLOWS EXISTING WATERLINE ROUTES
  - New CL 200 PVC PIPE (purple) - Mainline, sizes vary; NEW ROUTE
  - ISOLATION GATE VALVE - Size to pipe
  - HUNTER 1" Quick Coupler - HQ-44LRC-R  
Provide owner with two Valve Keys and Hose Swivels, HK-44 key and HS-1 Hose Swivel
  - HOSE BIB Location; See Detail
  - 3" POINT OF CONNECTION - off of golf course
  - 2" BLOW OUT TAP
  - 2" PRESSURE REGULATOR VALVE
  - 1" AIR RELEASE VALVE
  - Pipe size
  - PVC Class 200 Sleeve - Size per plan
- 4"SI      3" Bore 20'  
 PVC Pipe      Length of Bore  
 Sleeve Size      Bore Size

- NOTES**
- STAKE AND RECEIVE PROJECT MANAGER'S APPROVAL FOR ALL PIPE ROUTE, HOSE BIB, SLEEVE AND BORE LOCATIONS PRIOR TO INSTALL.
  - REMOVAL OF EXISTING SPARE STAND PIPES AND HOSE BIBS WILL BE THE OWNERS RESPONSIBILITY.
  - ALL TURF AREAS DISTURBED BY THIS CONTRACTOR SHALL BE RESTORED WITH 6" TOPSOIL, SEED AND MATTING.
  - TRENCH CUTTING THROUGH ASPHALT TO BE PATCHED
  - THE OWNER WILL LOCATE THE EXISTING WATER LINES FOR CONTRACTOR. COORDINATE WITH OWNER PRIOR TO BEGINNING WORK
  - #14 GAUGE TRACER WIRE TO BE RED

**GENERAL IRRIGATION NOTES**

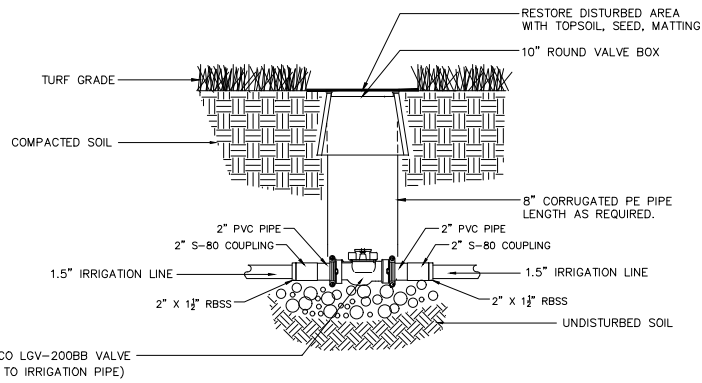
- CONTACT ALL UTILITIES AND GENERAL CONTRACTOR AT LEAST 5 DAYS PRIOR TO THE START OF CONSTRUCTION.
- MAINTAIN ALL CODES REQUIRED BY LOCAL AUTHORITIES.
- COORDINATE ALL SLEEVES AND PENETRATIONS WITH GENERAL CONTRACTOR IRRIGATION CONTRACTOR IS RESPONSIBLE FOR BORES, SLEEVES OR PENETRATIONS RELATED TO THE IRRIGATION
- CAP OR PLUG ALL OPENINGS AS SOON AS LINES ARE INSTALLED TO PREVENT DEBRIS IN THE LINE.
- INSTALL ALL PIPING AND FITTINGS USING GLUE METHODS CONSISTENT WITH MANUFACTURER'S RECOMMENDATIONS
- MAINLINE PIPING SHALL BE INSTALLED AT 18" TO THE TOP OF PIPE.
- THOROUGHLY FLUSH ALL LINES PRIOR TO THE OPERATION OF SPRINKLER HEADS.
- THE IRRIGATION SYSTEM SHALL BE TESTED AT OPERATING PRESSURE FOR A MINIMUM OF 4 HOURS. REPAIR ALL LEAKS AND RETEST AFTER CURING.
- ALL BIDDERS SHALL VISIT AND REVIEW THE SITE AND FAMILIAR THEMSELVES WITH THE SITE THE SITE PRIOR TO SUBMITTING A BID.
- CONTRACTOR IS RESPONSIBLE FOR SUBMITTING AND ACQUIRING ALL PERMITS
- STATIC PRESSURE READ, PROVIDED BY OTHERS. IF PSI IS NOT 90 PSI, NOTIFY OWNER.





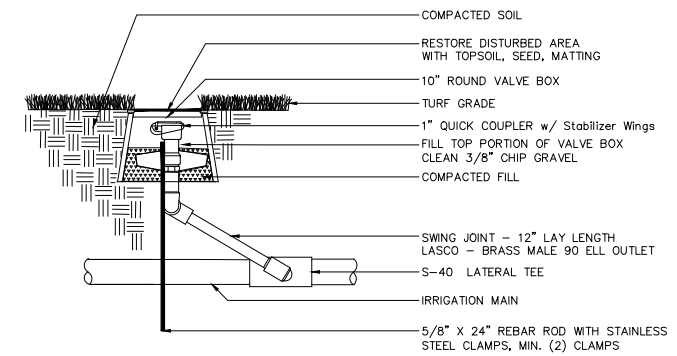
1 ISOLATION VALVE 2" and LARGER

NO SCALE



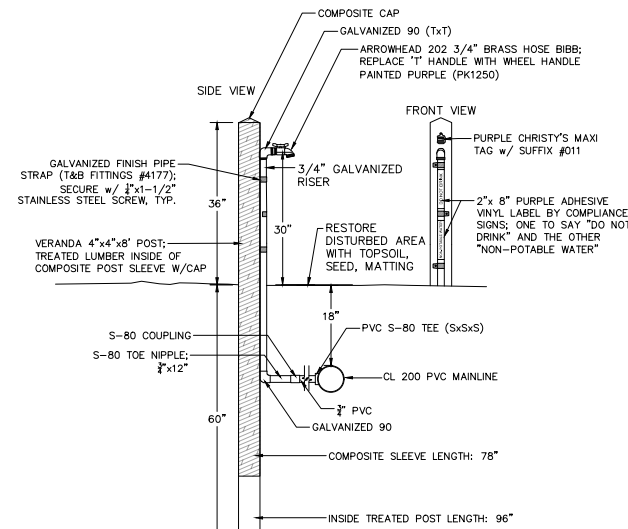
2 2" ISOLATION VALVE w/ 1.5" PIPE

NO SCALE



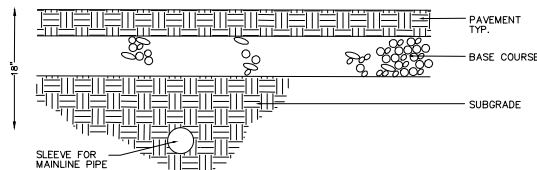
3 QUICK COUPLER VALVE

NO SCALE

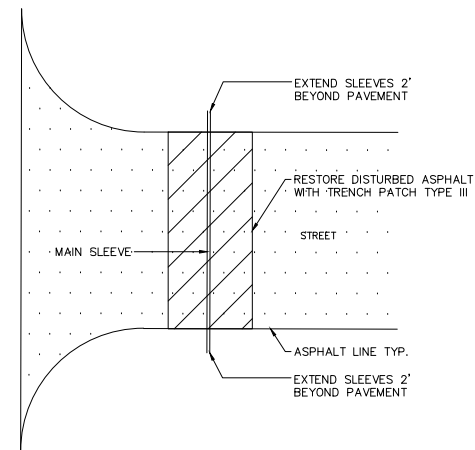


4 HOSE BIBB

NO SCALE

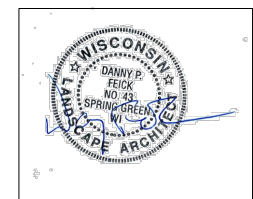


5 SLEEVING

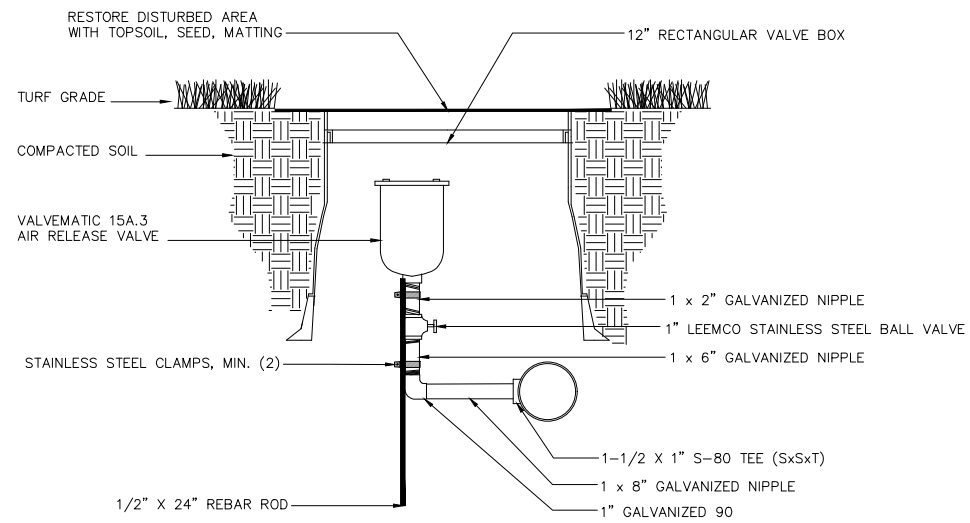


6 MAINLINE PIPE & TRACER TAPE

NO SCALE

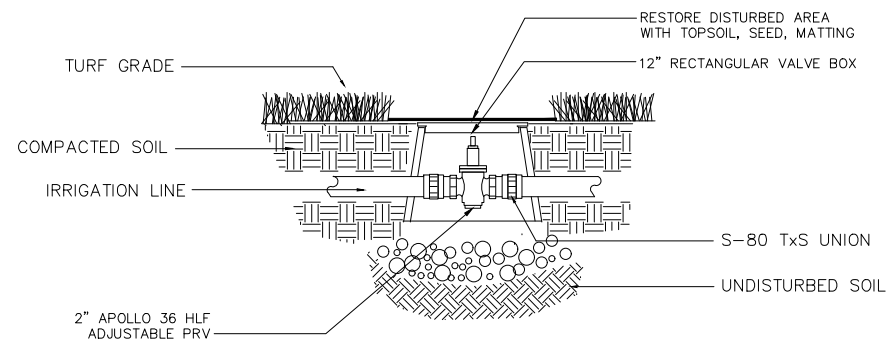






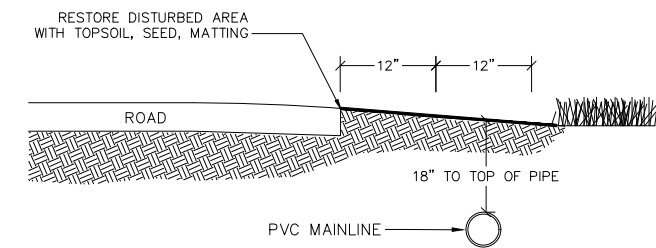
1 AIR RELEASE VALVE

NO SCALE



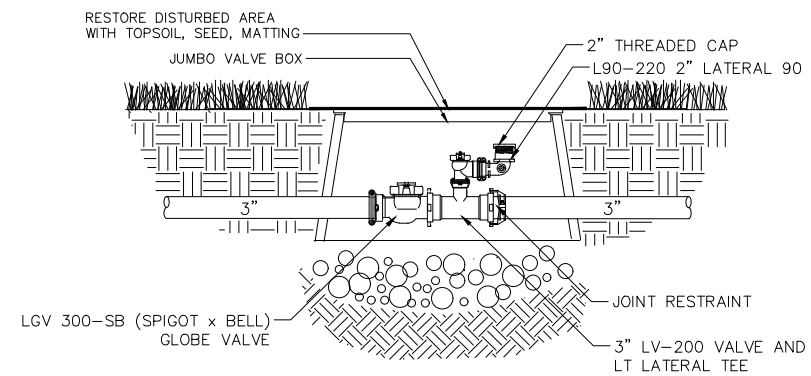
2 PRESSURE REDUCING VALVE

NO SCALE



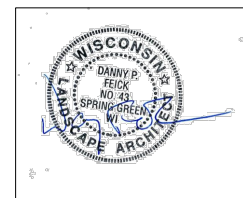
3 ROAD CROSS-SECTION

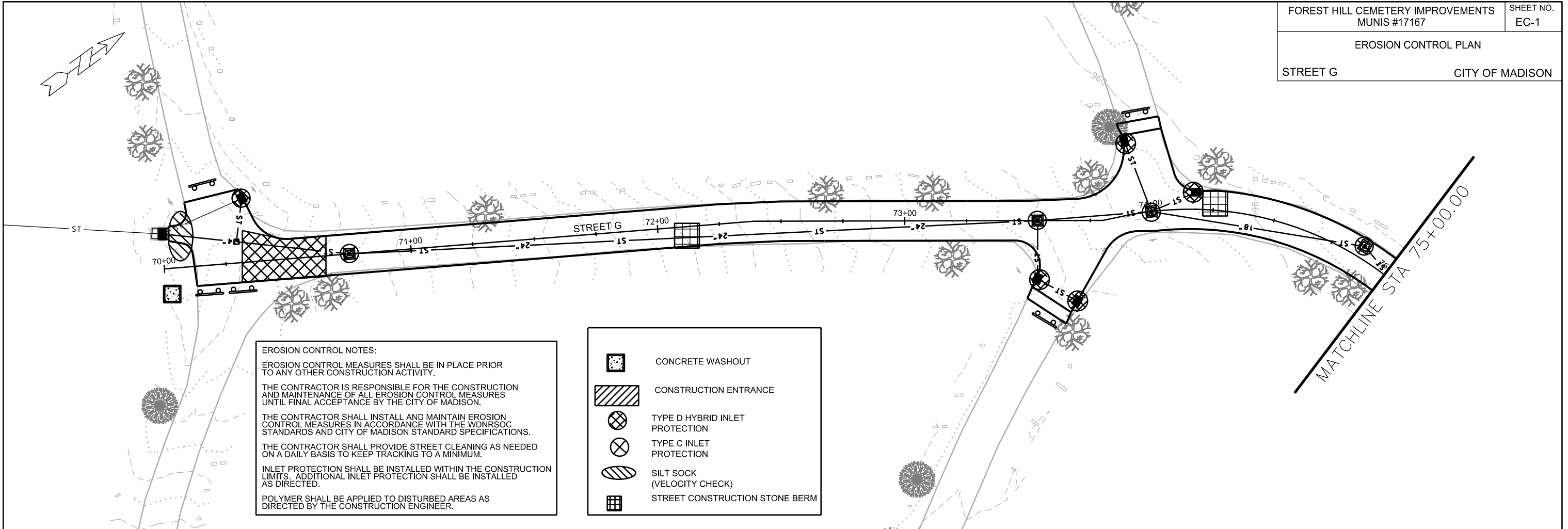
NO SCALE



4 BLOW OUT TEE @ P.O.C.

NO SCALE





**EROSION CONTROL NOTES:**

EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY.







THE CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES UNTIL FINAL ACCEPTANCE BY THE CITY OF MADISON.

THE CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH THE WDNR SOC STANDARDS AND CITY OF MADISON STANDARD SPECIFICATIONS.

THE CONTRACTOR SHALL PROVIDE STREET CLEANING AS NEEDED ON A DAILY BASIS TO KEEP TRACKING TO A MINIMUM.

INLET PROTECTION SHALL BE INSTALLED WITHIN THE CONSTRUCTION LIMITS. ADDITIONAL INLET PROTECTION SHALL BE INSTALLED AS DIRECTED.

POLYMER SHALL BE APPLIED TO DISTURBED AREAS AS DIRECTED BY THE CONSTRUCTION ENGINEER.

-  CONCRETE WASHOUT
-  CONSTRUCTION ENTRANCE
-  TYPE D HYBRID INLET PROTECTION
-  TYPE C INLET PROTECTION
-  SILT SOCK (VELOCITY CHECK)
-  STREET CONSTRUCTION STONE BERM

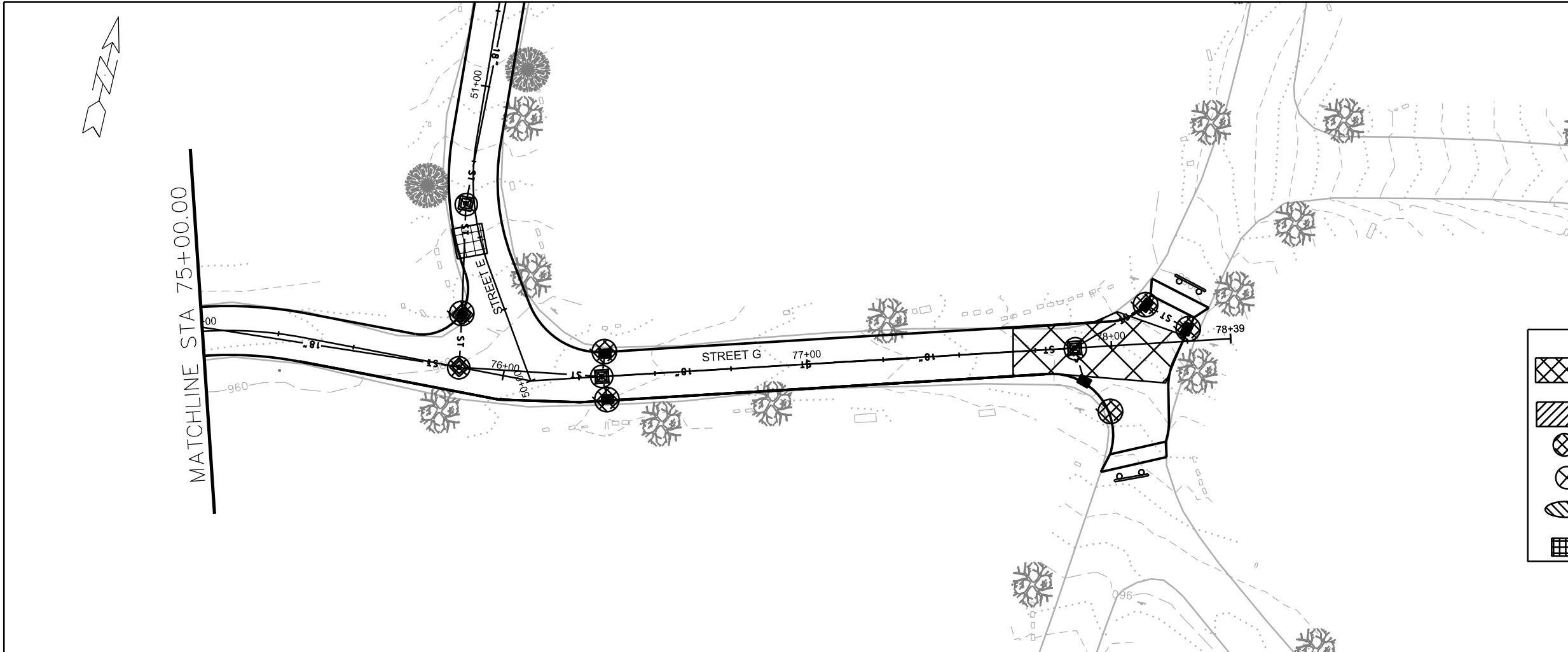








PLOT SCALE: \_\_\_\_\_

PLOT NAME: \_\_\_\_\_

REV. DATE: \_\_\_\_\_

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



	STREET CONSTRUCTION ENTRANCE BERM
	CONSTRUCTION ENTRANCE
	TYPE D HYBRID INLET PROTECTION
	TYPE C INLET PROTECTION
	SILT SOCK (VELOCITY CHECK)
	STREET CONSTRUCTION STONE BERM



**EROSION CONTROL NOTES:**

EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY.

THE CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES UNTIL FINAL ACCEPTANCE BY THE CITY OF MADISON.

THE CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH THE WDNR SOC STANDARDS AND CITY OF MADISON STANDARD SPECIFICATIONS.

THE CONTRACTOR SHALL PROVIDE STREET CLEANING AS NEEDED ON A DAILY BASIS TO KEEP TRACKING TO A MINIMUM.

INLET PROTECTION SHALL BE INSTALLED WITHIN THE CONSTRUCTION LIMITS. ADDITIONAL INLET PROTECTION SHALL BE INSTALLED AS DIRECTED.

POLYMER SHALL BE APPLIED TO DISTURBED AREAS AS DIRECTED BY THE CONSTRUCTION ENGINEER.

PLOT SCALE: \_\_\_\_\_

PLOT NAME: \_\_\_\_\_

REV. DATE: \_\_\_\_\_

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

**EROSION CONTROL NOTES:**

EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY.







THE CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES UNTIL FINAL ACCEPTANCE BY THE CITY OF MADISON.

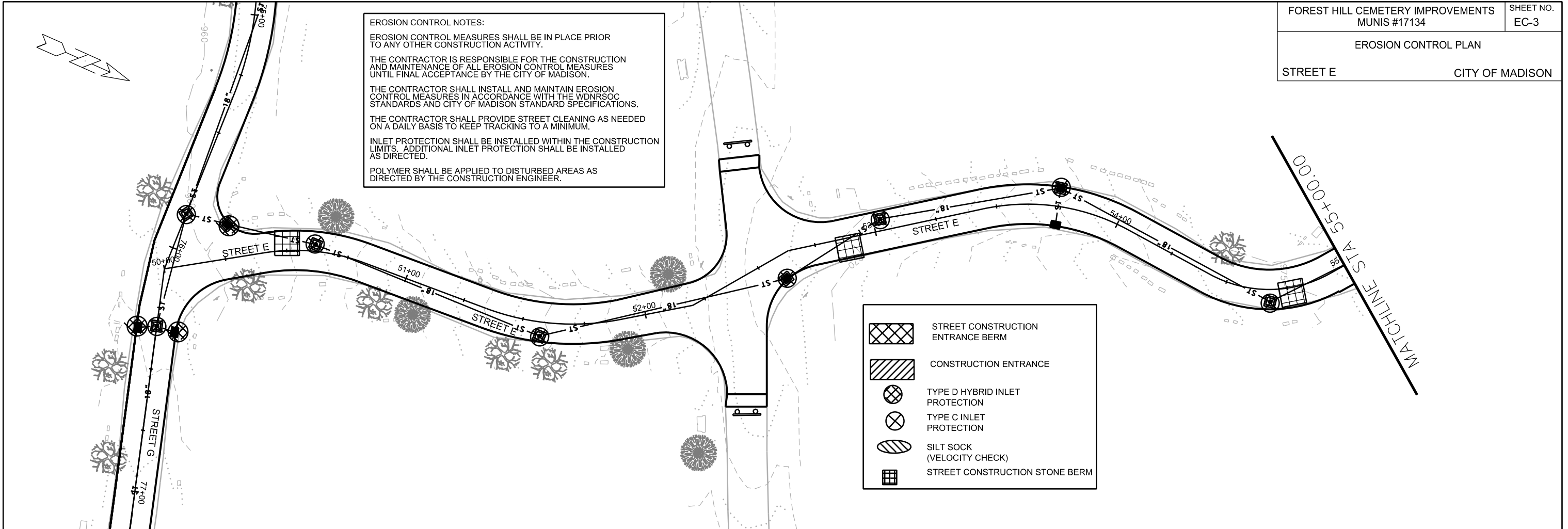
THE CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH THE WDNR SOC STANDARDS AND CITY OF MADISON STANDARD SPECIFICATIONS.

THE CONTRACTOR SHALL PROVIDE STREET CLEANING AS NEEDED ON A DAILY BASIS TO KEEP TRACKING TO A MINIMUM.

INLET PROTECTION SHALL BE INSTALLED WITHIN THE CONSTRUCTION LIMITS. ADDITIONAL INLET PROTECTION SHALL BE INSTALLED AS DIRECTED.

POLYMER SHALL BE APPLIED TO DISTURBED AREAS AS DIRECTED BY THE CONSTRUCTION ENGINEER.

-  STREET CONSTRUCTION ENTRANCE BERM
-  CONSTRUCTION ENTRANCE
-  TYPE D HYBRID INLET PROTECTION
-  TYPE C INLET PROTECTION
-  SILT SOCK (VELOCITY CHECK)
-  STREET CONSTRUCTION STONE BERM



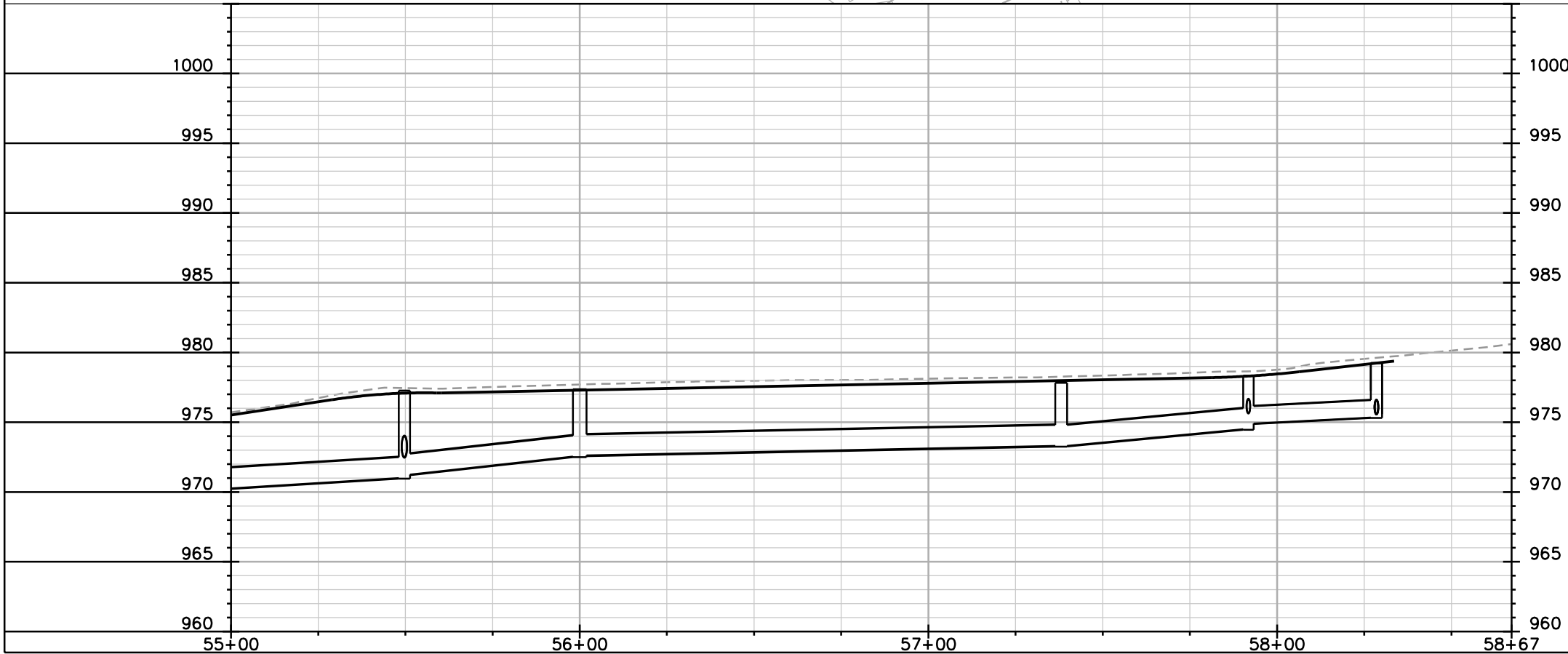
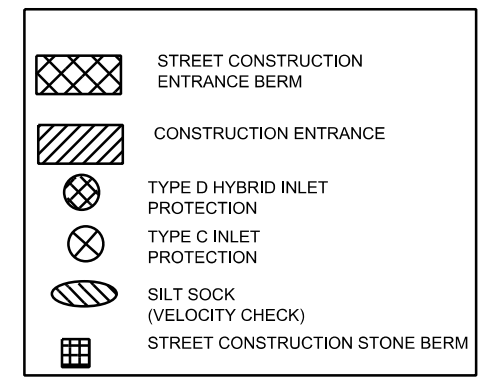
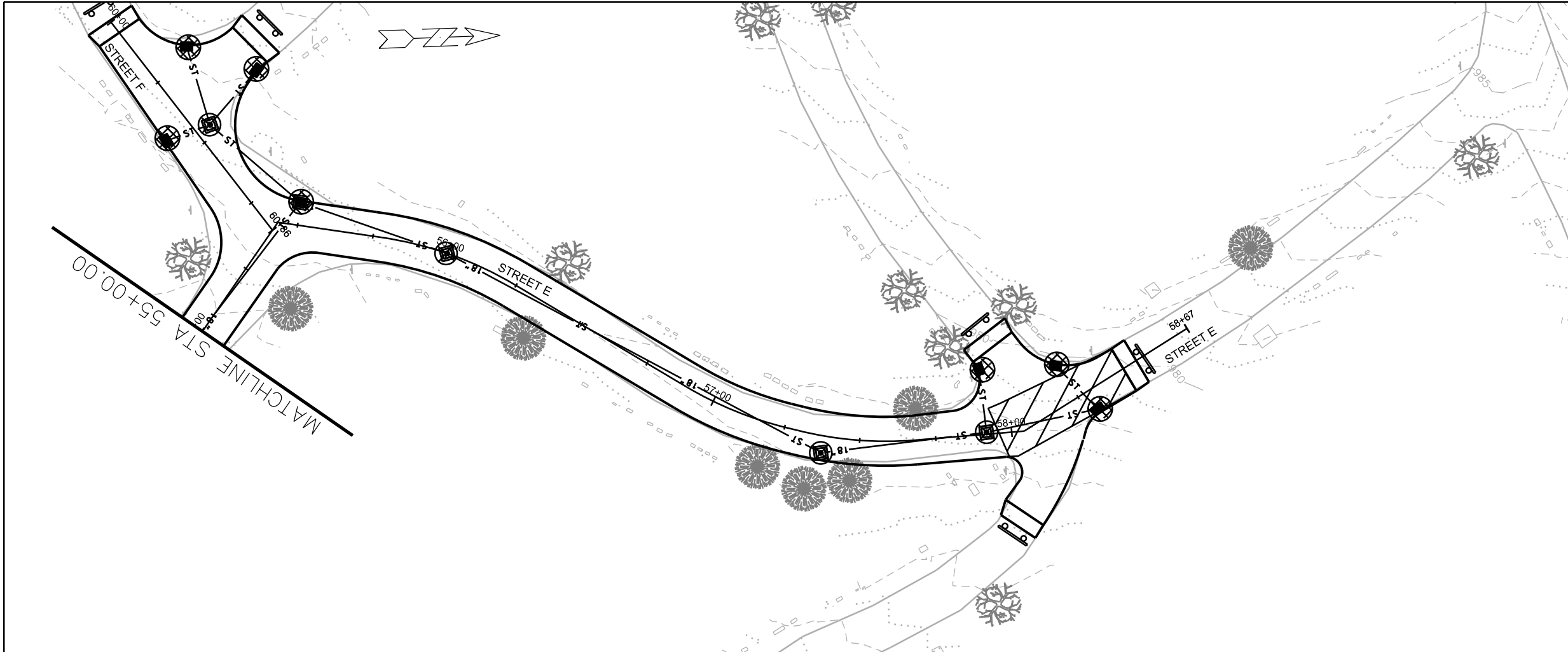
PLOT SCALE: \_\_\_\_\_

PLOT NAME: \_\_\_\_\_

REV. DATE: \_\_\_\_\_

ORIGINATOR: CITY OF MADISON, STREETS DIVISION





**EROSION CONTROL NOTES:**

EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY.

THE CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES UNTIL FINAL ACCEPTANCE BY THE CITY OF MADISON.

THE CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH THE WDNR SOC STANDARDS AND CITY OF MADISON STANDARD SPECIFICATIONS.

THE CONTRACTOR SHALL PROVIDE STREET CLEANING AS NEEDED ON A DAILY BASIS TO KEEP TRACKING TO A MINIMUM.

INLET PROTECTION SHALL BE INSTALLED WITHIN THE CONSTRUCTION LIMITS. ADDITIONAL INLET PROTECTION SHALL BE INSTALLED AS DIRECTED.

POLYMER SHALL BE APPLIED TO DISTURBED AREAS AS DIRECTED BY THE CONSTRUCTION ENGINEER.

PLOT SCALE: \_\_\_\_\_

PLOT NAME: \_\_\_\_\_

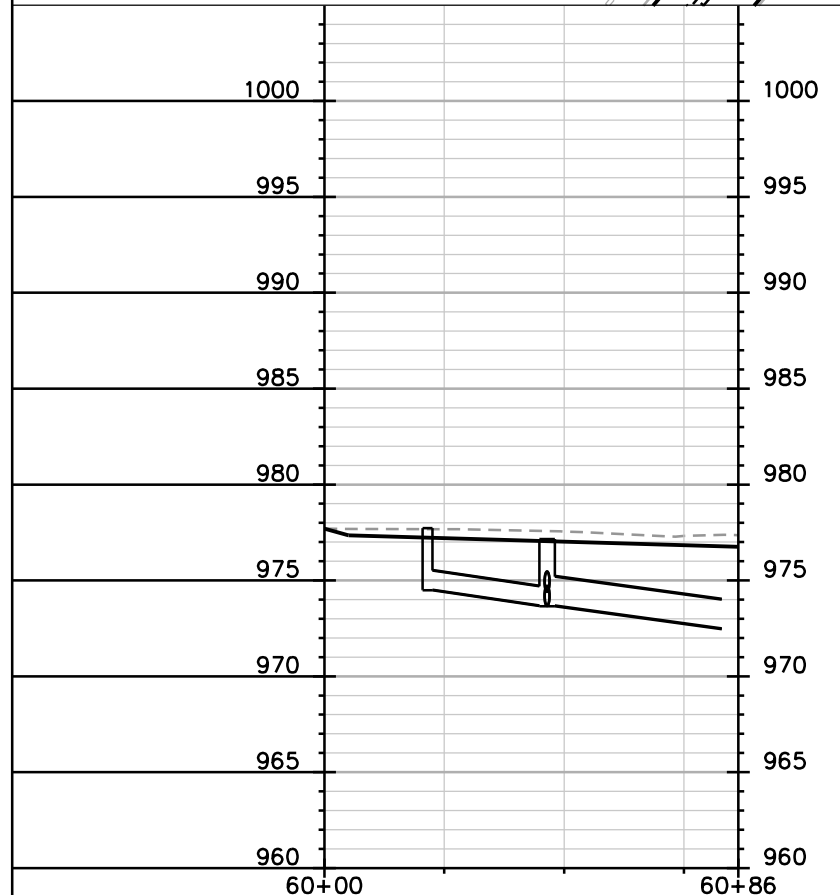
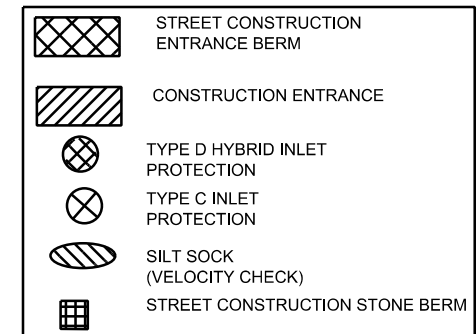
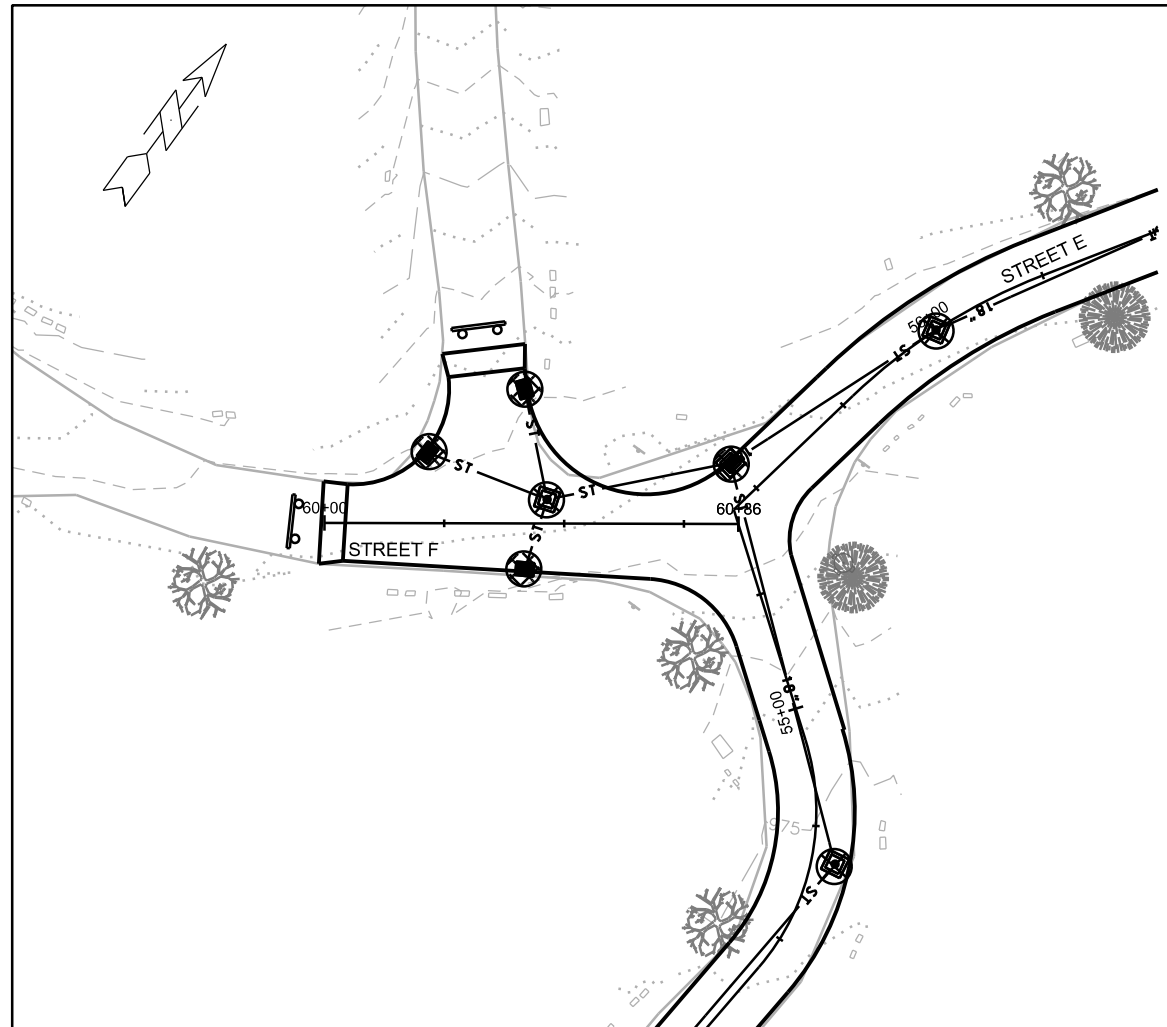
REV. DATE: \_\_\_\_\_

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

EROSION CONTROL PLAN

STREET F

CITY OF MADISON



**EROSION CONTROL NOTES:**

EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY.

THE CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES UNTIL FINAL ACCEPTANCE BY THE CITY OF MADISON.

THE CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH THE WDNR SOC STANDARDS AND CITY OF MADISON STANDARD SPECIFICATIONS.

THE CONTRACTOR SHALL PROVIDE STREET CLEANING AS NEEDED ON A DAILY BASIS TO KEEP TRACKING TO A MINIMUM.

INLET PROTECTION SHALL BE INSTALLED WITHIN THE CONSTRUCTION LIMITS. ADDITIONAL INLET PROTECTION SHALL BE INSTALLED AS DIRECTED.

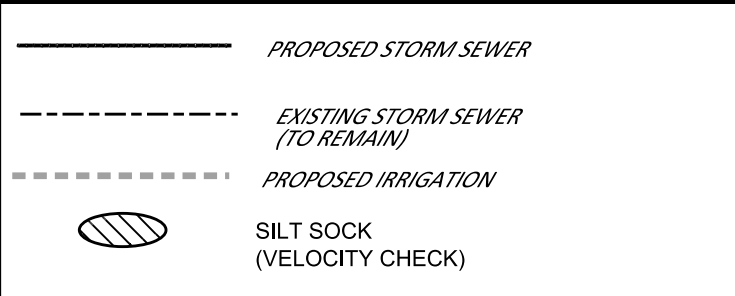
POLYMER SHALL BE APPLIED TO DISTURBED AREAS AS DIRECTED BY THE CONSTRUCTION ENGINEER.

PLOT SCALE: \_\_\_\_\_

PLOT NAME: \_\_\_\_\_

REV. DATE: \_\_\_\_\_

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



**EROSION CONTROL NOTES:**

EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY.

THE CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES UNTIL FINAL ACCEPTANCE BY THE CITY OF MADISON.

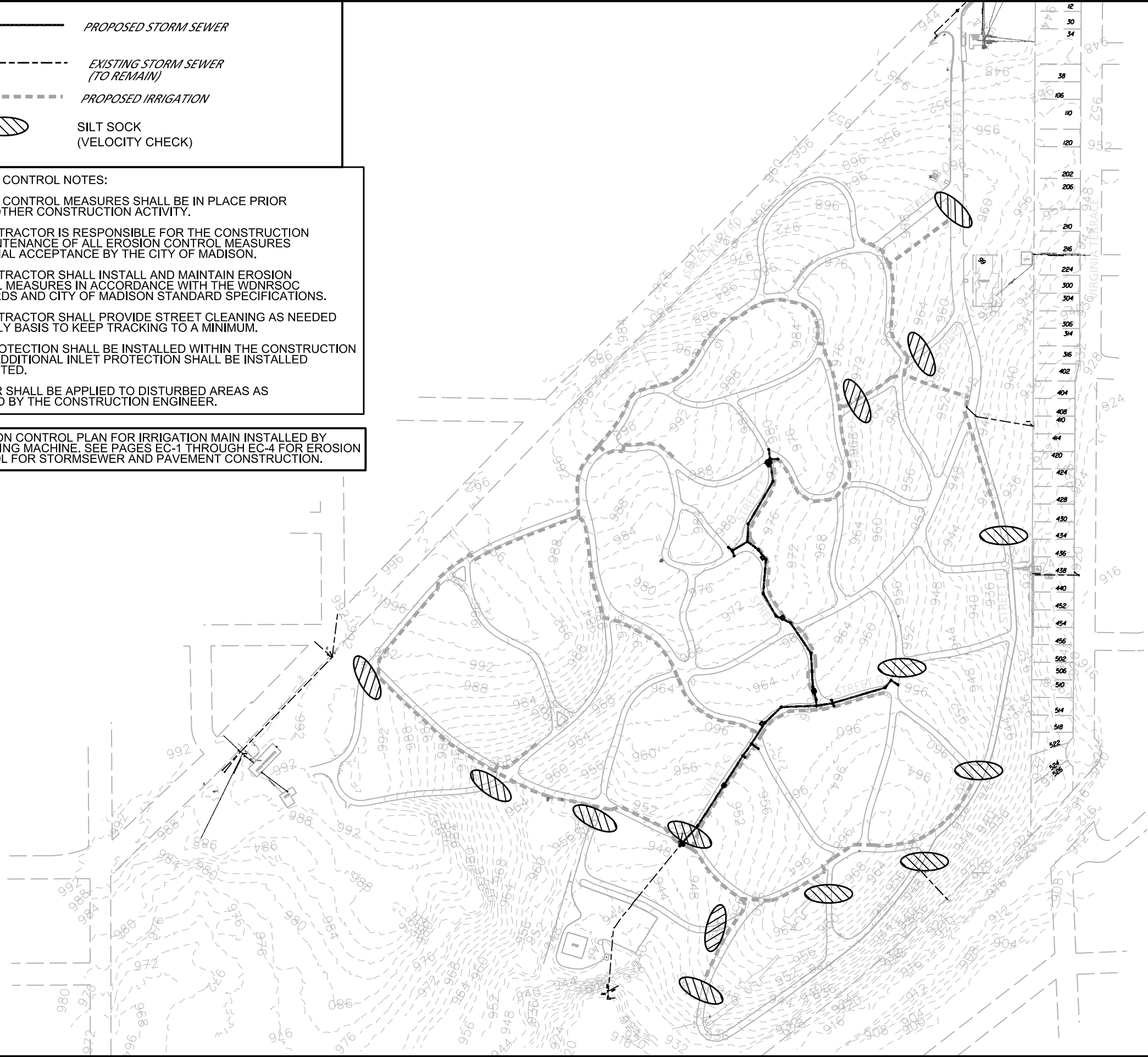
THE CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH THE WDNR SOC STANDARDS AND CITY OF MADISON STANDARD SPECIFICATIONS.

THE CONTRACTOR SHALL PROVIDE STREET CLEANING AS NEEDED ON A DAILY BASIS TO KEEP TRACKING TO A MINIMUM.

INLET PROTECTION SHALL BE INSTALLED WITHIN THE CONSTRUCTION LIMITS. ADDITIONAL INLET PROTECTION SHALL BE INSTALLED AS DIRECTED.

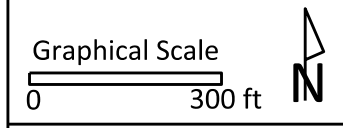
POLYMER SHALL BE APPLIED TO DISTURBED AREAS AS DIRECTED BY THE CONSTRUCTION ENGINEER.

\* EROSION CONTROL PLAN FOR IRRIGATION MAIN INSTALLED BY TRENCHING MACHINE. SEE PAGES EC-1 THROUGH EC-4 FOR EROSION CONTROL FOR STORMSEWER AND PAVEMENT CONSTRUCTION.



City of Madison  
 Department of Public Works  
**PARKS DIVISION**  
 City-County Building, Suite 104  
 210 Martin Luther King, Jr. Blvd.  
 Madison, WI 53703

*play*  
**MADISON**  
**PARKS**



PROJECT:

**FOREST HILL  
CEMETERY  
IMPROVEMENTS**

**FOREST HILL  
CEMETERY  
1 SPEEDWAY RD  
MADISON, WI 53715**

Although every effort has been made in preparing these plans and checking them for accuracy, the contractor and subcontractors must check all details and dimensions of their trade and be responsible for the same.

ITEM	DATE
Drawn by: CCS	1-9-2017

PUBLIC WORKS PROJECT #:  
**8002**

SHEET TITLE:  
**EROSION CONTROL  
PLAN- IRRIGATION**

SHEET NUMBER:  
**EC-6**