

NARRATIVE

1. SOIL TYPE: X CLAY SAND
2. IS THE PROJECT LOCATED IN A HIGH QUALITY WATER ZONE?
YES X NO
3. ARE THERE ANY WETLANDS ADJOINING THIS PROJECT?
YES X NO

SITE DESCRIPTION

This project is located along SR 1579 in Broadway in Lee County, NC.

The area surrounding this project primarily consists of commercial businesses and open fields. The drainage consists of roadway ditches that lead to existing ditches and drainage structures.

PROJECT DESCRIPTION

The project will consist of clearing, grubbing, drainage, grading for the base and paving. The major land disturbing activities will consist of clearing and grading within the right of way. Temporary and permanent erosion control measures will be installed.

MAINTENANCE SCHEDULE

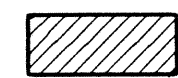
1. INSPECT WEEKLY AND AFTER EACH RAINFALL USE THE DEPARTMENT OF TRANSPORTATION'S EROSION CONTROL INSPECTION REPORT.
2. MAINTAIN EROSION CONTROL DEVICES AS FOLLOWS:
- A. SILT DITCH - REMOVE SEDIMENT FROM THE FLOW AREA AND REPAIR THE DIVERSION RIDGE - CAREFULLY CHECK OUTLETS AND MAKE TIMELY REPAIRS AS NEEDED.
- B. SILT FENCE - REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE - AVOID UNDERMINING THE FENCE.
- C. SLOPE DRAINS - INSPECT THE SLOPE DRAINS AND SUPPORTING DIVERSIONS.
- D. SEDIMENT BASIN - REMOVE SEDIMENT AND RESTORE THE BASIN TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT ACCUMULATES TO ONE-HALF THE DESIGN DEPTH - CHECK THE EMBANKMENT, SPILLWAYS, AND OUTLET FOR EROSION DAMAGE, AND INSPECT THE EMBANKMENT FOR PIPING AND SETTLEMENT - REMOVE ALL TRASH AND OTHER DEBRIS FROM THE RISER AND POOL AREA.
- E. CHECK DAM - REMOVE SETTLEMENT ACCUMULATED BEHIND THE DAMS AS NEEDED TO PREVENT DAMAGE TO CHANNEL VEGETATION - ADD STONE TO DAMS AS NEEDED TO MAINTAIN DESIGN HEIGHT AND CROSS SECTION.
- F. ROCK DAM - REMOVE SEDIMENT AND RESTORE ORIGINAL VOLUME WHEN SEDIMENT ACCUMULATES TO ONE-HALF THE DESIGN VOLUME - CHECK THE STRUCTURE FOR EROSION, PIPING, AND ROCK DISPLACEMENT AFTER EACH SIGNIFICANT RAINSTORM AND REPAIR IMMEDIATELY.
- G. DROP INLET PROTECTION (TYPE C) - REMOVE SEDIMENT FROM THE POOL AREAS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN.
- H. SEDIMENT TRAP - REMOVE SEDIMENT AND RESTORE THE TRAP TO ITS ORIGINAL DIMENSIONS WHEN SETTLEMENT HAS ACCUMULATED TO ONE-HALF THE DESIGN DEPTH OF THE TRAP - CHECK THE STRUCTURE FOR DAMAGE FROM EROSION OR PIPING TO ENSURE IT IS A MINIMUM OF 15 FT. BELOW THE LOW POINT OF THE EMBANKMENT.

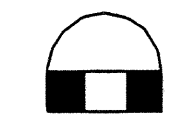
NOTE: SEDIMENT SHOULD BE PLACED IN DESIGNATED DISPOSAL AREAS AND NOT ALLOWED TO FLOW INTO STREAMS OR DRAINAGE WAYS DURING STRUCTURE REMOVAL.

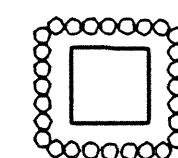
GENERAL CONSIDERATIONS

1. THE LAW REQUIRES INSTALLATION AND MAINTENANCE OF SUFFICIENT EROSION CONTROL PRACTICES TO RETAIN SEDIMENT WITHIN THE BOUNDARIES OF THE SITE. IT ALSO REQUIRES THAT SURFACES BE NON EROSION AND STABLE WITHIN TWENTY-ONE (21) CALENDAR DAYS AFTER THE COMPLETION OF ANY GRADING ACTIVITIES.
2. FIT THE DEVELOPMENT TO THE SITE - FOLLOW THE NATURAL CONTOURS AS MUCH AS POSSIBLE. PRESERVE AND USE NATURAL DRAINAGE SYSTEMS.
3. LIMIT CLEARING AND GRUBBING - CLEARLY DEFINE WORK LIMIT LINES. GRADE TO MINIMIZE CUT-AND-FILL SLOPES. PRESERVE NATURAL BUFFER AREAS, AND LIMIT THE TIME THAT BARE SOIL IS EXPOSED.
4. PROTECT THE SOIL SURFACE - LIMIT THE EXTENT OF DISTURBANCE AND STABILIZE THE SOIL SURFACE IMMEDIATELY. ONCE THE SURFACE HAS BEEN DISTURBED, IT IS SUBJECT TO ACCELERATED EROSION AND SHOULD BE PROTECTED WITH APPROPRIATE COVER, SUCH AS MULCH OR VEGETATION IN AN EXPEDIENT MANNER.
5. SEDIMENT BASINS AND TRAPS - SELECT SITES AND INSTALL SEDIMENT BASINS AND TRAPS BEFORE OTHER CONSTRUCTION ACTIVITIES ARE STARTED. ALSO CONSIDER LOCATIONS FOR DIVERSIONS, OPEN CHANNELS, AND STORM DRAINS AT THIS TIME SO THAT ALL SEDIMENT-LADEN TO RUN OFF CAN BE DIRECTED TO AN IMPOUNDMENT STRUCTURE BEFORE LEAVING THE CONSTRUCTION SITE. INSTALL ALL MEASURES AND RELEASE POINTS PRIOR TO CLEARING AND GRUBBING.
6. ONCE AN AREA IS DISTURBED, IT IS SUBJECT TO ACCELERATED EROSION. EROSION CONTROL CAN BE ACHIEVED BY:
- * LIMITING THE SIZE OF THE CLEARING AND TIME OF EXPOSURE BY PROPER SCHEDULING.
 - * REDUCING THE AMOUNT OF RUNOFF OVER THE DISTURBED SURFACE.
 - * LIMITING GRADES AND LENGTHS OF SLOPES, AND
 - * RE-ESTABLISHING PROTECTIVE COVER IMMEDIATELY AFTER LAND DISTURBING ACTIVITIES ARE COMPLETED OR WHEN CONSTRUCTION ACTIVITIES ARE DELAYED FOR THIRTY (30) OR MORE WORKING DAYS



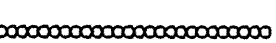



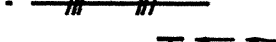
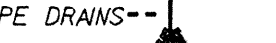











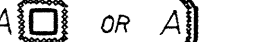
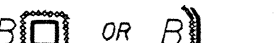
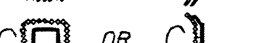
7. STABILIZE CONSTRUCTION ACCESS AREAS, CONSTRUCTION ROADS, AND PARKING AREA DURING INITIAL ACTIVITIES. TRY TO KEEP ROAD GRADES TO A MINIMUM GENERALLY NEVER EXCEEDING 12%.
8. CLEAR BORROW AND WASTE DISPOSAL AREAS AS NEEDED AND PROTECT THEM FROM SURFACE RUNOFF. SLOPE ALL AREAS TO PROVIDE POSITIVE DRAINAGE, AND STABILIZE BARE SOIL SURFACES WITH PERMANENT VEGETATION OR MULCH AS SOON AS FINAL GRADES ARE PREPARED. DIRECT ALL RUNOFF THAT CONTAINS SEDIMENT TO A SEDIMENT-TRAPPING DEVICE. IN LARGE BORROW AND DISPOSAL SITES, SHAPE AND DEEPEN THE LOWER END TO FORM AN IN-PLACE SEDIMENT TRAP.
9. ONLY SEDIMENT-FREE RUNOFF MAY BE DISCHARGED FROM CONSTRUCTION SITES DIRECTLY INTO STREAMS. ENSURE THAT ALL OTHER FLOWS ENTER FROM DESILTING POOLS FORMED BY SEDIMENT TRAPS OR BARRIERS.
10. AREAS ADJOINING STREAMS SHOULD BE LEFT UNDISTURBED AS BUFFERS, WHERE NATURAL BUFFERS ARE NOT AVAILABLE, PROVIDE ARTIFICIAL BUFFERS, WHERE WORK IS REQUIRED ALONG A STREAM, PROVIDE MECHANICAL OR ARTIFICIAL BUFFER (25 FEET MINIMUM REQUIRED).
11. BEFORE MOVING TO NEXT JOB SITE, REVIEW ALL MEASURES FOR EFFECTIVENESS; MAKE ANY ADJUSTMENTS, CLEAR-OUTS, OR REPAIRS; CALL ROADSIDE ENVIRONMENTAL DEPARTMENT FOR INSTALLATION OF A DITCH LINER AND SEEDING AND MULCHING OF ALL DISTURBED AREAS.
12. CONTINUE TO CHECK AND MAINTAIN ALL MEASURES AFTER EACH SIGNIFICANT RAINFALL UNTIL ALL DISTURBED AREAS BECOME STABILIZED.
13. FILL IN ALL SILT BASINS AND SILT DITCHES, REMOVE ALL SILT FENCES AND SLOPE DRAINS, REDISTRIBUTE ALL STONE FROM SILT CHECKS, SEDIMENT DAMS, AND SILT SCREENS. SEED AND MULCH DISTURBED AREAS.

 = 13 @ 3' X 6' X 2'

 = 1 @ 8' X 16' X 3'

 = 35 @ 12 CF (Type C)

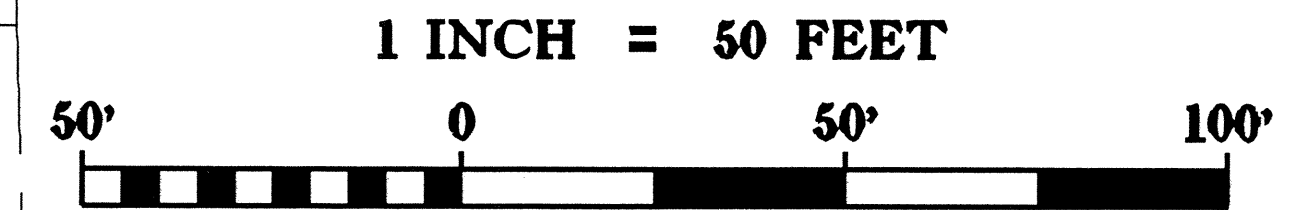
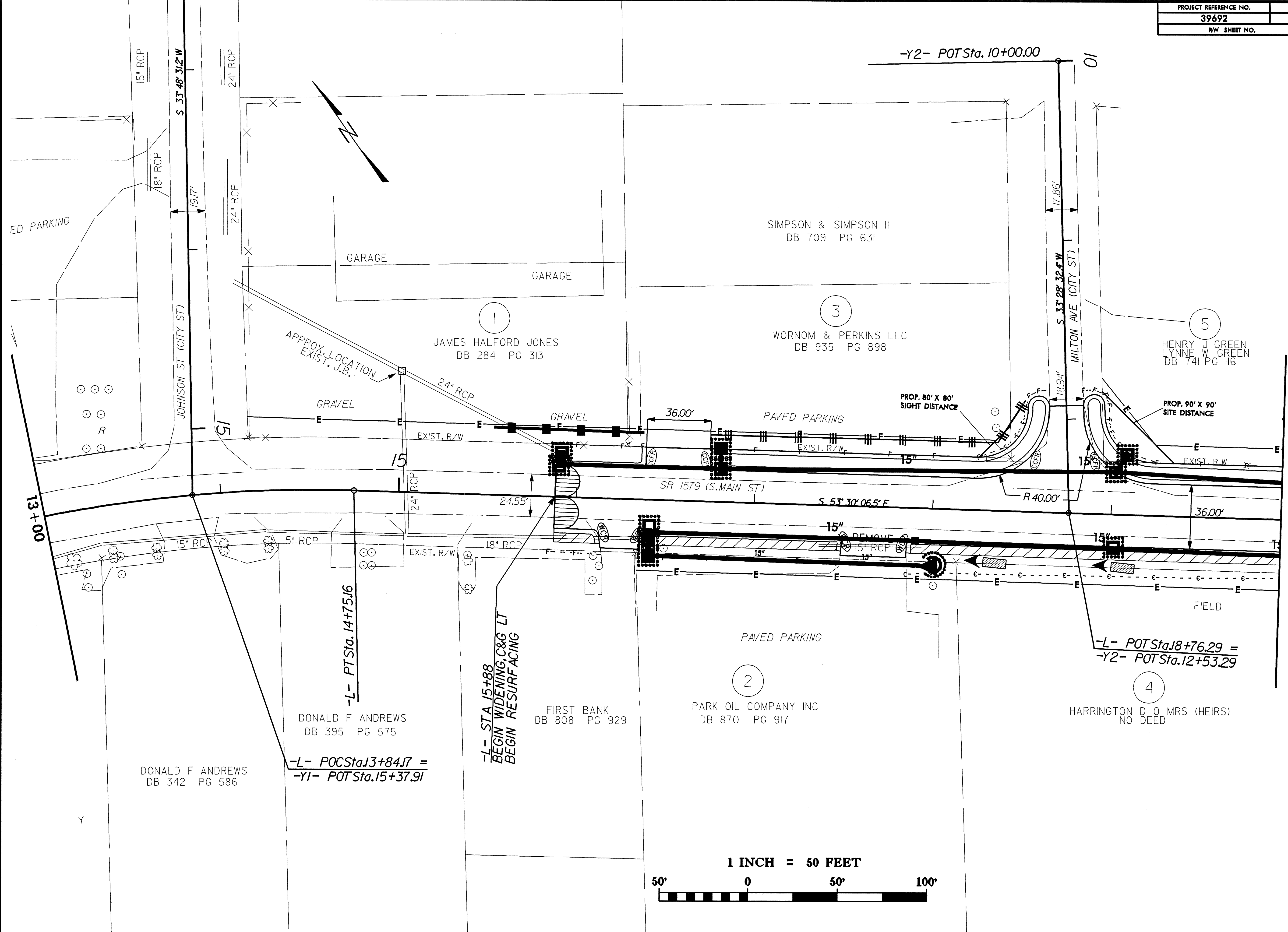
EROSION CONTROL DETAILS AND SPECIFICATIONS

STD.*	DESCRIPTION	SYMBOL
	EROSION CONTROL MATTING	
	SYNTHETIC ROVING	
	STONE	
1630.D3	TEMPORARY SILT DITCH	
1630.D5	TEMPORARY DIVERSION	
1605.D1	TEMPORARY SILT FENCE	
1622.D1	GUIDE FOR TEMPORARY BERMS & SLOPE DRAINS	
1630.D1	SILT BASIN TYPE-A	
1630.D2	SILT BASIN TYPE-B	
1633.D1	TEMPORARY ROCK SILT CHECK TYPE-A	
1633.D2	TEMPORARY ROCK SILT CHECK TYPE-B	
1634.D1	TEMPORARY ROCK SEDIMENT DAM TYPE-A	
1634.D2	TEMPORARY ROCK SEDIMENT DAM TYPE-B	
1635.D1	ROCK PIPE INLET SEDIMENT TRAP TYPE A	
1636.D1	ROCK SILT SCREEN	
1630.D4	STILLING BASIN FOR PUMPED EFFLUENT	
ROCK INLET SEDIMENT PROTECTION		
1632.D1	TRAP TYPE-A	 OR 
1632.D2	TRAP TYPE-B	 OR 
1632.D3	TRAP TYPE-C	 OR 

B.17/99

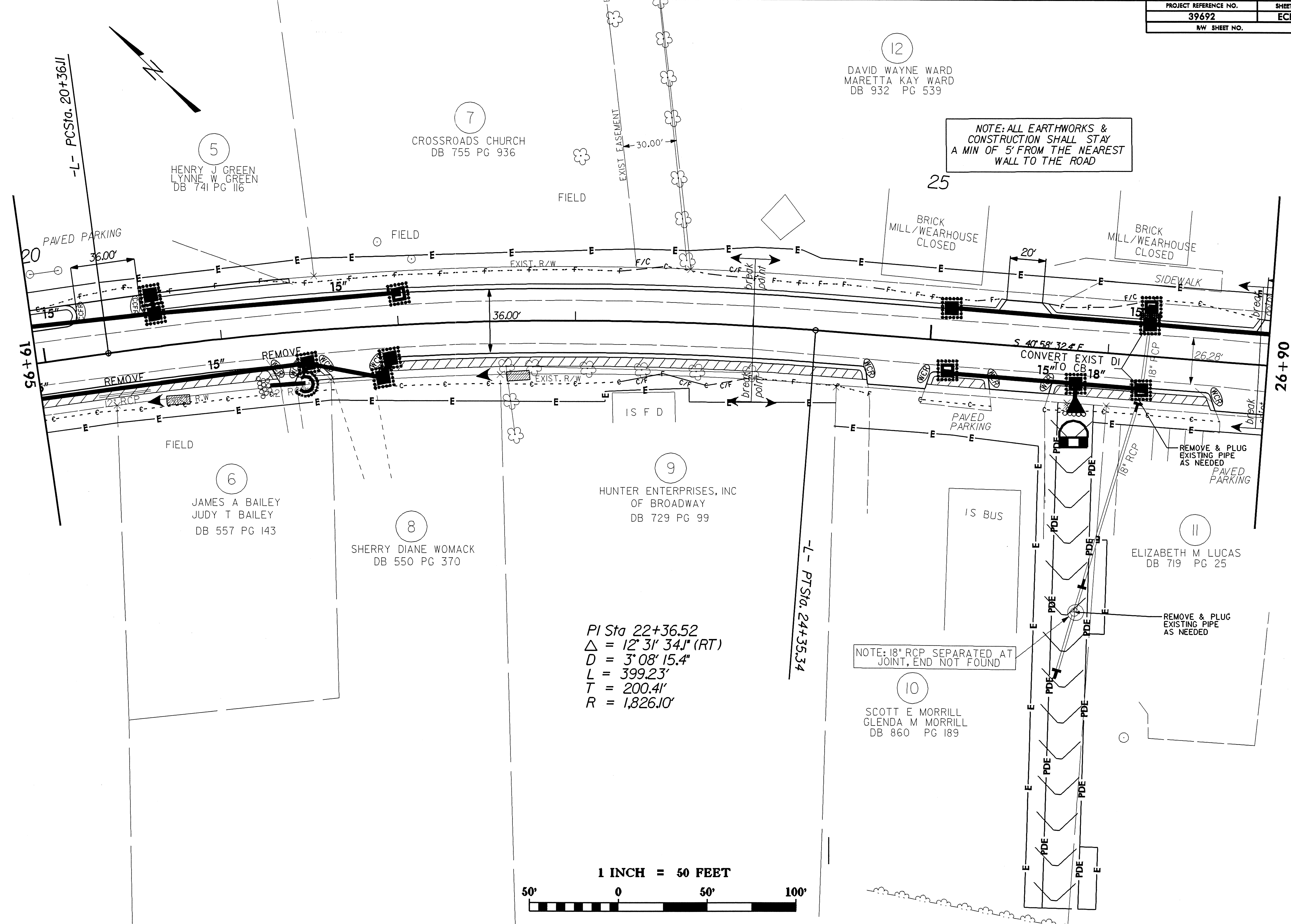
REVISIONS

14-AUG-2006 10:17
 DR: NRDY: LEE: scf: 1579
 1579-ecp-2.dgn



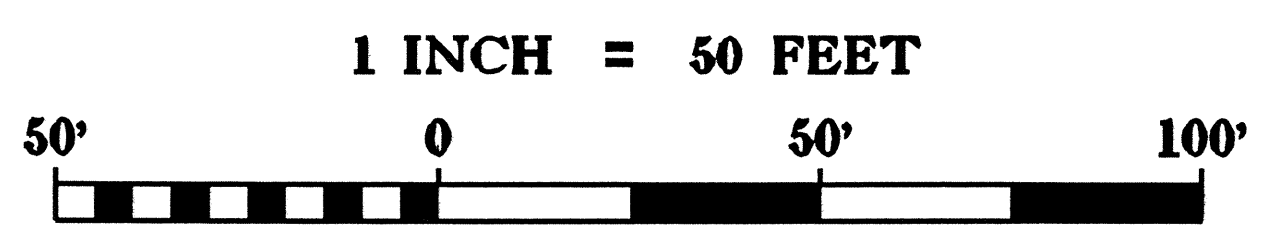
12
DAVID WAYNE WARD
MARETTA KAY WARD
DB 932 PG 539

NOTE: ALL EARTHWORKS & CONSTRUCTION SHALL STAY A MIN OF 5' FROM THE NEAREST WALL TO THE ROAD



PI Sta 22+36.52
 $\Delta = 12^\circ 31' 34''$ (RT)
 $D = 3' 08'' 15.4''$
 $L = 399.23'$
 $T = 200.41'$
 $R = 1,826.10'$

NOTE: 18" RCP SEPARATED AT JOINT, END NOT FOUND



REVISIONS

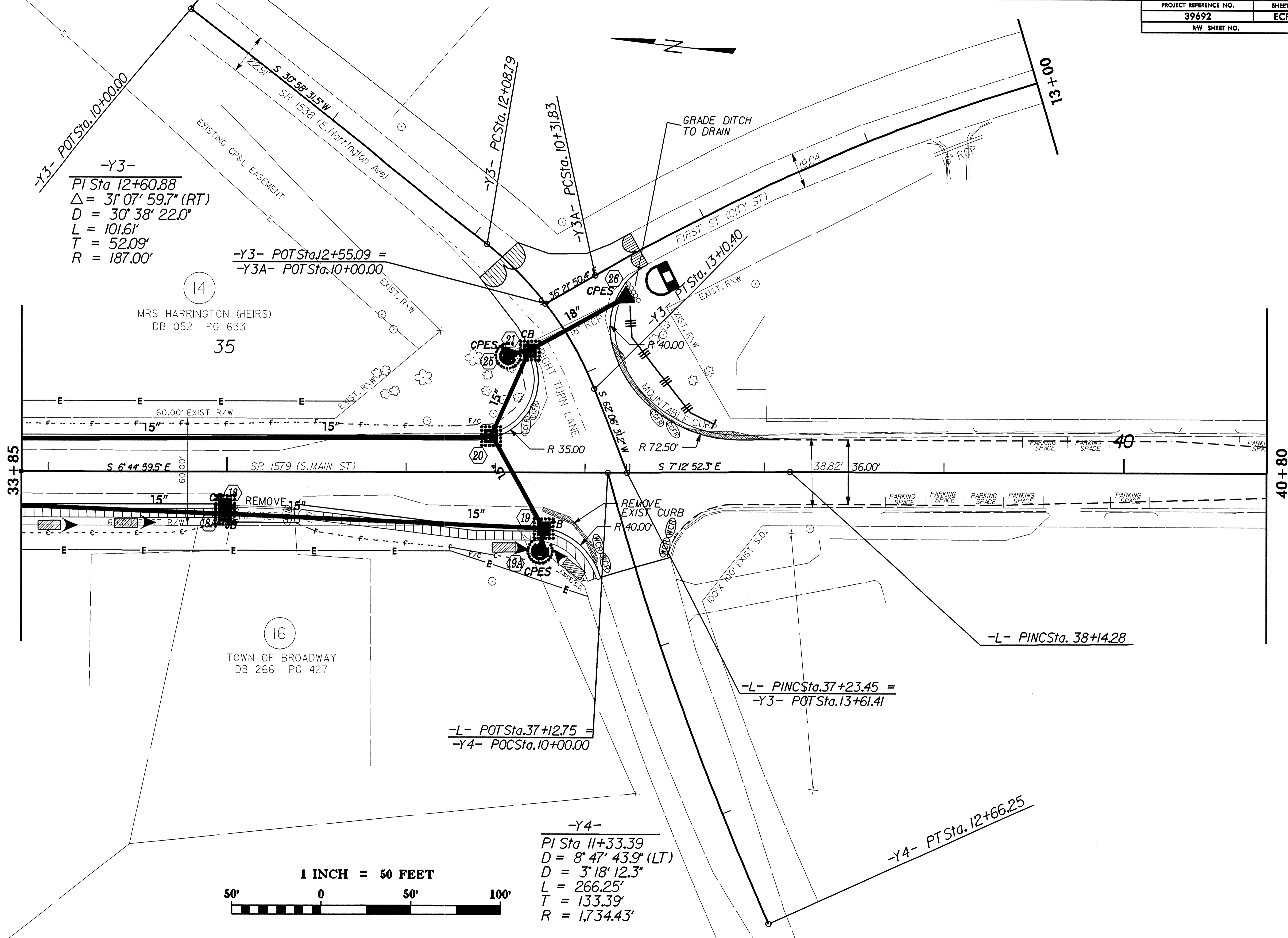
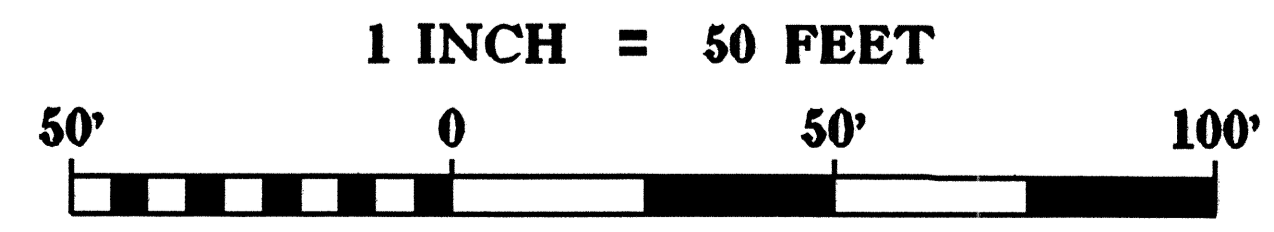
14-AUG-2006 10:17 D:\RDY\LEE\1579\1579\roadway\psh\sr1579_eep_3.dgn
 8/17/99

8/17/99

-Y3-
 PI Sta 12+60.88
 $\Delta = 31^{\circ} 07' 59.7''$ (RT)
 $D = 30^{\circ} 38' 22.0''$
 $L = 101.61'$
 $T = 52.09'$
 $R = 187.00'$

-Y3- POTSta.12+55.09 =
 -Y3A- POTSta.10+00.00

-Y4-
 PI Sta 11+33.39
 $D = 8^{\circ} 47' 43.9''$ (LT)
 $D = 3^{\circ} 18' 12.3''$
 $L = 266.25'$
 $T = 133.39'$
 $R = 1,734.43'$

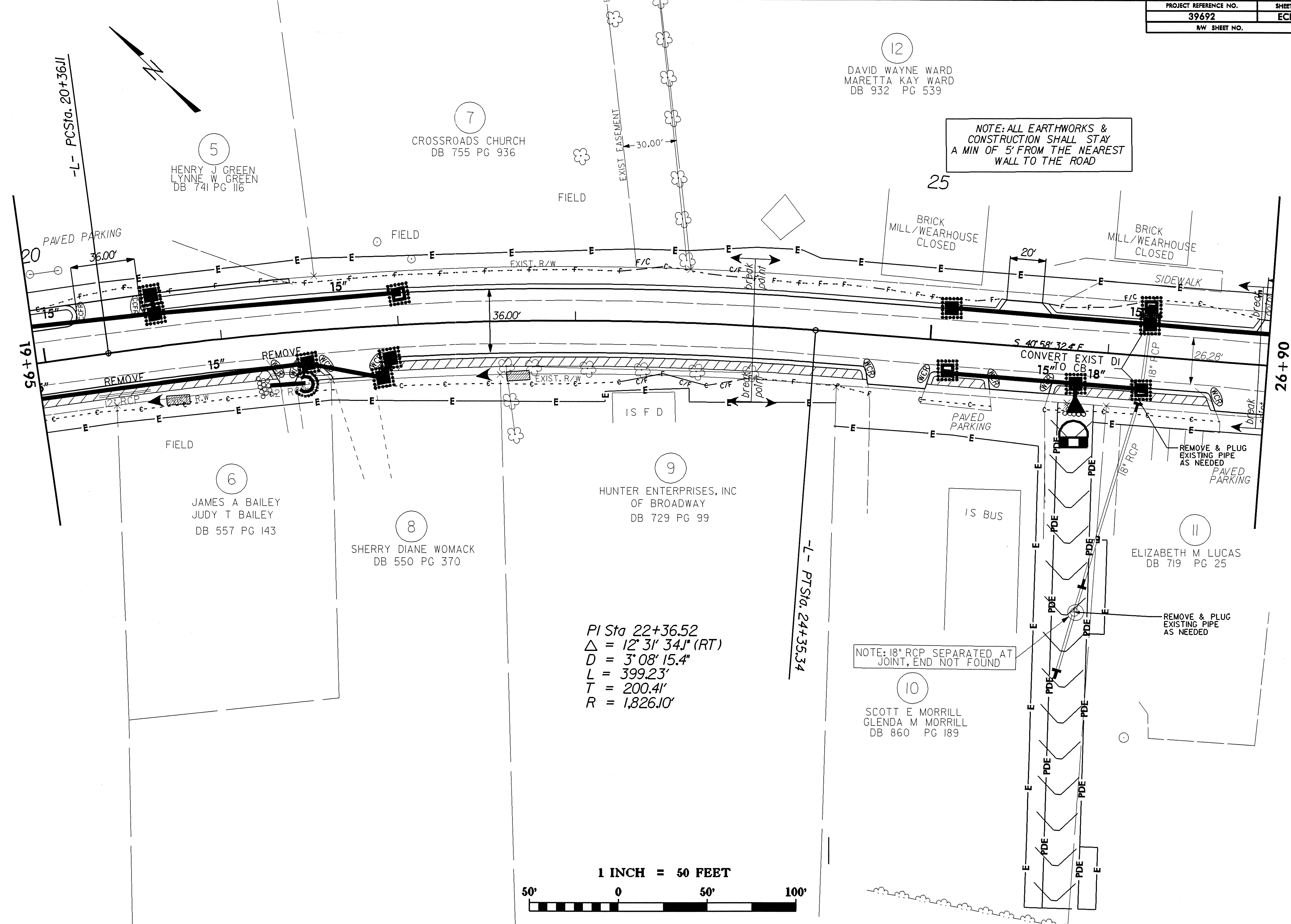


REVISIONS

14-AUG-2006 10:17:79 h:\broadway\psh\ar1579_eop_5.dgn
 DEAN KLEIN

12
 DAVID WAYNE WARD
 MARETTA KAY WARD
 DB 932 PG 539

NOTE: ALL EARTHWORKS & CONSTRUCTION SHALL STAY A MIN OF 5' FROM THE NEAREST WALL TO THE ROAD

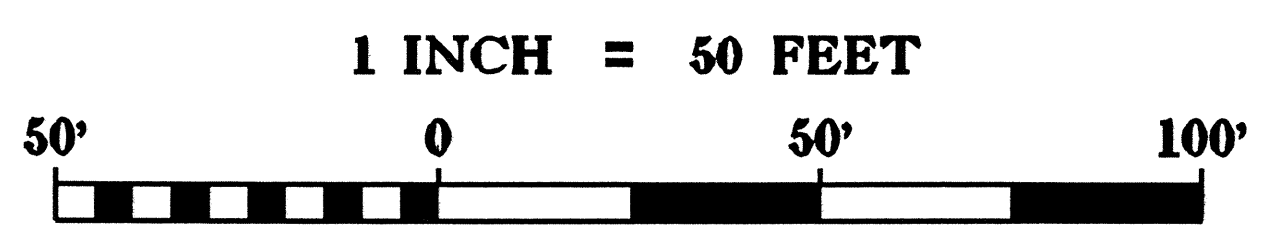


-L- PCSta. 20+36.11

-L- PTSta. 24+35.34

PI Sta 22+36.52
 $\Delta = 12^\circ 31' 34''$ (RT)
 $D = 3' 08'' 15.4''$
 $L = 399.23'$
 $T = 200.41'$
 $R = 1,826.10'$

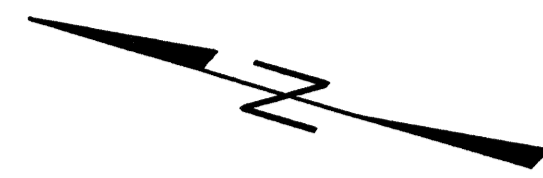
NOTE: 18" RCP SEPARATED AT JOINT, END NOT FOUND



REVISIONS

14-AUG-2006 10:17
 D:\RDY\LEE\1579\1579\roadway\psh\sr1579_eep_3.dgn

8/17/99



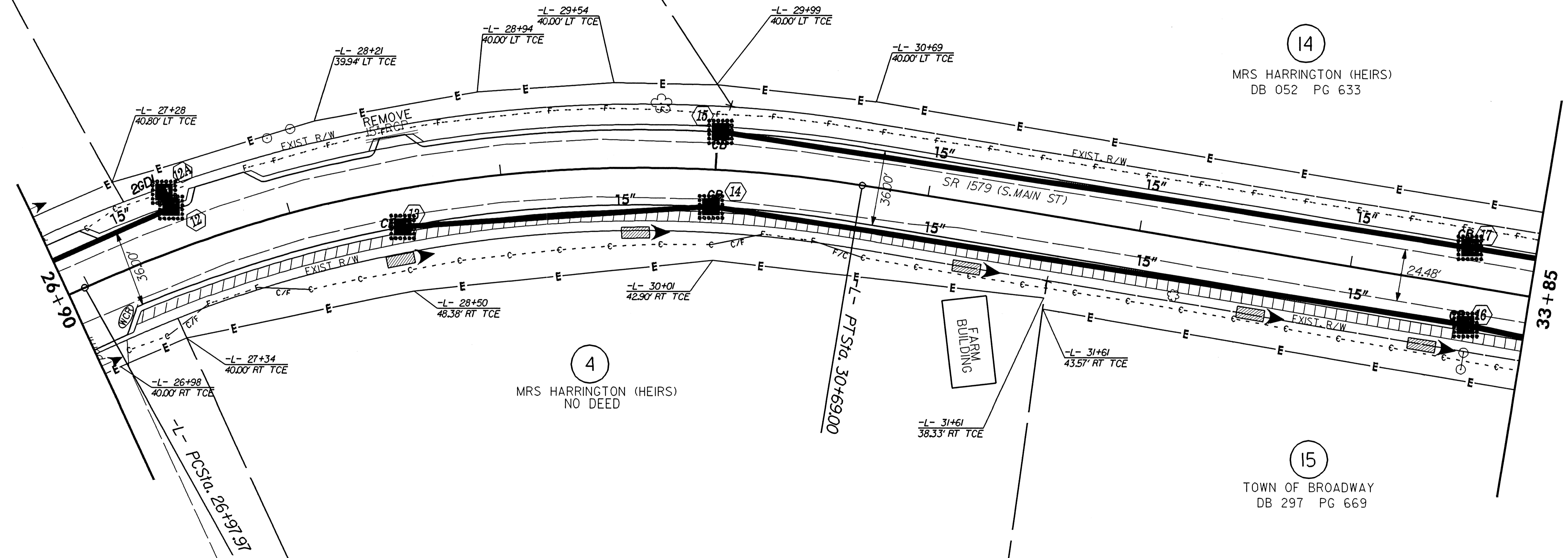
13
DAVID HARRINGTON
DB 690 PG 670

30

14
MRS HARRINGTON (HEIRS)
DB 052 PG 633

15
TOWN OF BROADWAY
DB 297 PG 669

4
MRS HARRINGTON (HEIRS)
NO DEED



PI Sta 28+89.20	PI Sta 28+89.20
$\Delta = 34^{\circ} 13' 26.6''$ (RT)	$\Delta = 34^{\circ} 13' 26.6''$ (RT)
D = 9' 13' 27.0"	D = 9' 13' 27.0"
L = 371.03'	L = 371.03'
T = 191.23'	T = 191.23'
R = 621.15'	R = 621.15'

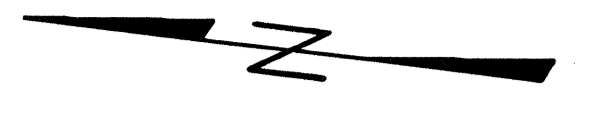
1 INCH = 50 FEET



REVISIONS

SYTIME
V
L
S
E
R
V
I
C
E
S

8/17/99



-Y3-
 PI Sta 12+60.88
 $\Delta = 31^{\circ} 07' 59.7''$ (RT)
 $D = 30^{\circ} 38' 22.0''$
 $L = 101.61'$
 $T = 52.09'$
 $R = 187.00'$

-Y3- POTSta.12+55.09 =
 -Y3A- POTSta.10+00.00

14
 MRS HARRINGTON (HEIRS)
 DB 052 PG 633

35

33+85

40+80

S 6°44'59.5"E SR 1579 (S.MAIN ST)

S 7°12'52.3"E

16
 TOWN OF BROADWAY
 DB 266 PG 427

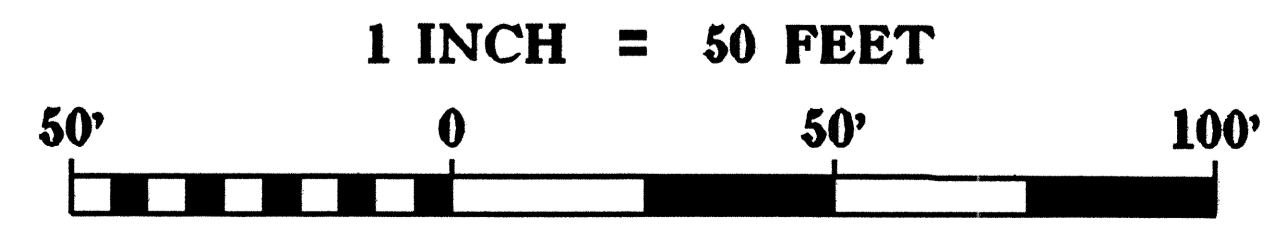
-L- PINCSta. 38+14.28

-L- POTSta.37+12.75 =
 -Y4- POCSta.10+00.00

-L- PINCSta.37+23.45 =
 -Y3- POTSta.13+61.41

-Y4-
 PI Sta 11+33.39
 $D = 8^{\circ} 47' 43.9''$ (LT)
 $D = 3^{\circ} 18' 12.3''$
 $L = 266.25'$
 $T = 133.39'$
 $R = 1,734.43'$

-Y4- PTSta. 12+66.25



REVISIONS

14-AUG-2006 10:17:79 h:\broadway\psh\ar1579_eop_5.dgn
 DEAN KLEIN

8/17/99

REVISIONS

14-AUG-2006 10:17
 D:\RDY\LEE\SP1579\BOD\adway\psh\sr1579_eop-6.dgn

