STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	1C.070011, ETC.	1	21

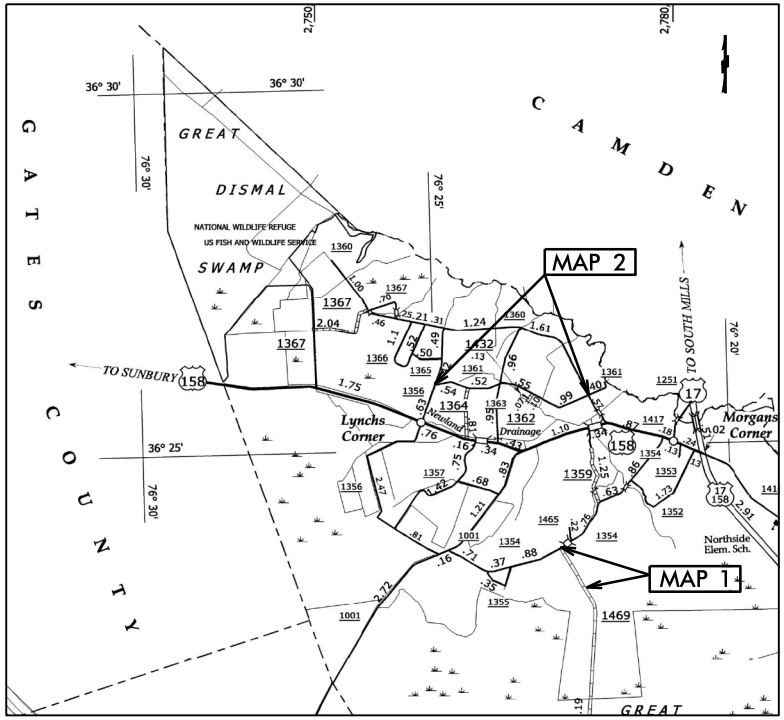
STATE PROJ.NO.	F.A. PROJ.NO.	DESCRIPTION
1C.070011		MAP 1
1C.070040		MAP 2

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PASQUOTANK COUNTY

LOCATION: MAP 1 SR 1469 FROM SR 1354 TO STATION 32+44
MAP 2 SR 1361 FROM SR 1356 TO SR 1360

TYPE OF WORK: PIPE REPLACEMENT, WIDENING, RESURFACING & PAVEMENT MARKINGS



WBS ELEMENT: 1C.070011, ETC.

CONTRACT NO. :

NTS

PROJECT LENGTH

LENGTH OF ROADWAY PROJECT MAP 1 0.60 MI.
LENGTH OF ROADWAY PROJECT MAP 2 2.58 MI.

Prepared in the Office of:
DIVISION OF HIGHWAYS
113 Airport Dr., Edenton NC, 27932

2012 STANDARD SPECIFICATIONS

LETTING DATE:

W.B. HOBBS, P.E.
DIVISION PROJECT MANAGER

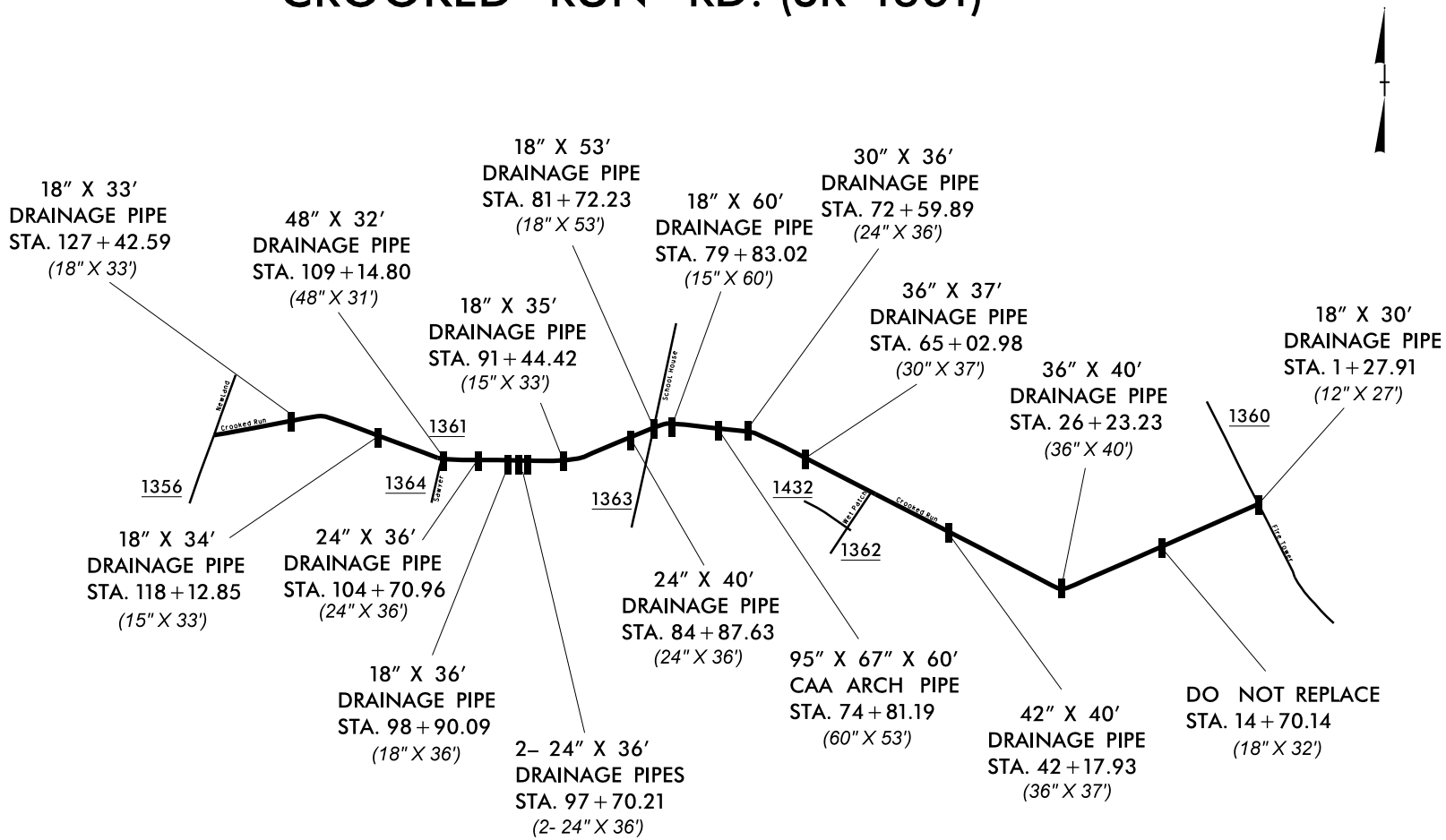
C.E. SLACHTA
DIVISION PROPOSALS ENGINEER

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO.	SHEET NO.
1C.070011, ETC.	1A

(EXISTING PIPE)

PROPOSED PIPE REPLACEMENTS
CROOKED RUN RD. (SR 1361)



REVISIONS

27-AUG-2012 16:30
C:\Documents and Settings\bwbass\Desktop\DESIGN FILES\16_CrookedRun\1C.070011_ETC.dgn

PROJECT REFERENCE NO.	SHEET NO.
1C.070011, ETC.	2

PAVEMENT SCHEDULE

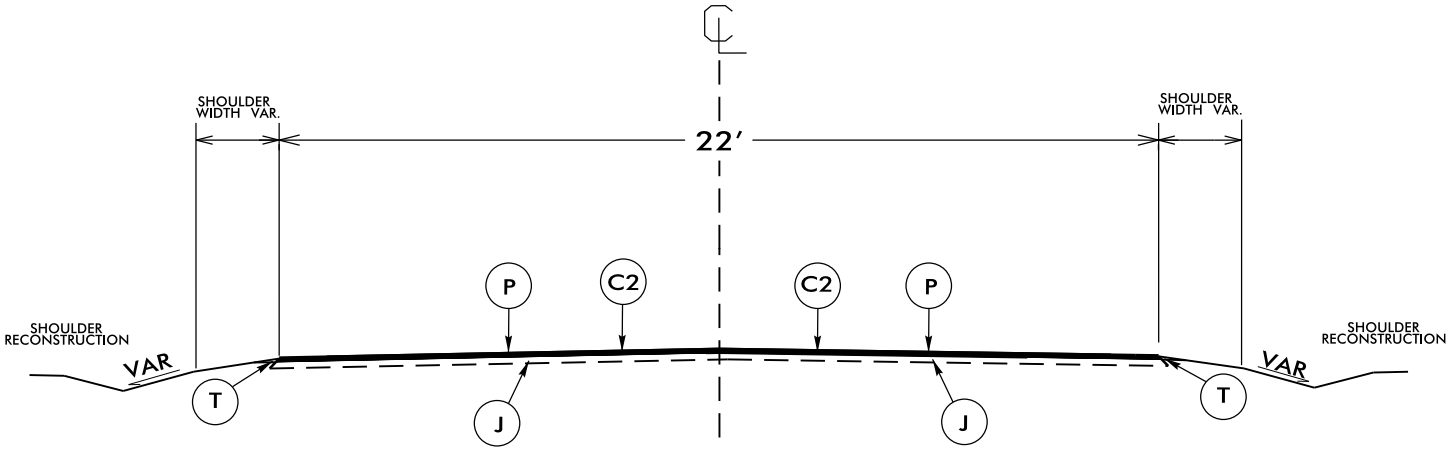
C2	PROP. APPROX. 2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
J	EXISTING AGGREGATE BASE COURSE
P	PRIME COAT TO BE APPLIED AT AN AVERAGE RATE 0.35 GAL. PER SQ YD
T	EARTH MATERIAL

NOTES:

*ALL PAVED S.R. ROADS TO BE RESURFACED TO THE ENDS OF THE RADI., OR AS DIRECTED BY THE ENGINEER

*EDGES, PAVEMENT WIDENING, INTERSECTIONS, AND BRIDGE FLARES ARE INCLUDED IN THE TABLE OF QUANTITIES

*PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE



TYPICAL SECTION NO.1

USE WITH MAP 1

NTS

PROJECT REFERENCE NO.	SHEET NO.
1C.070011, ETC.	2A

PAVEMENT SCHEDULE

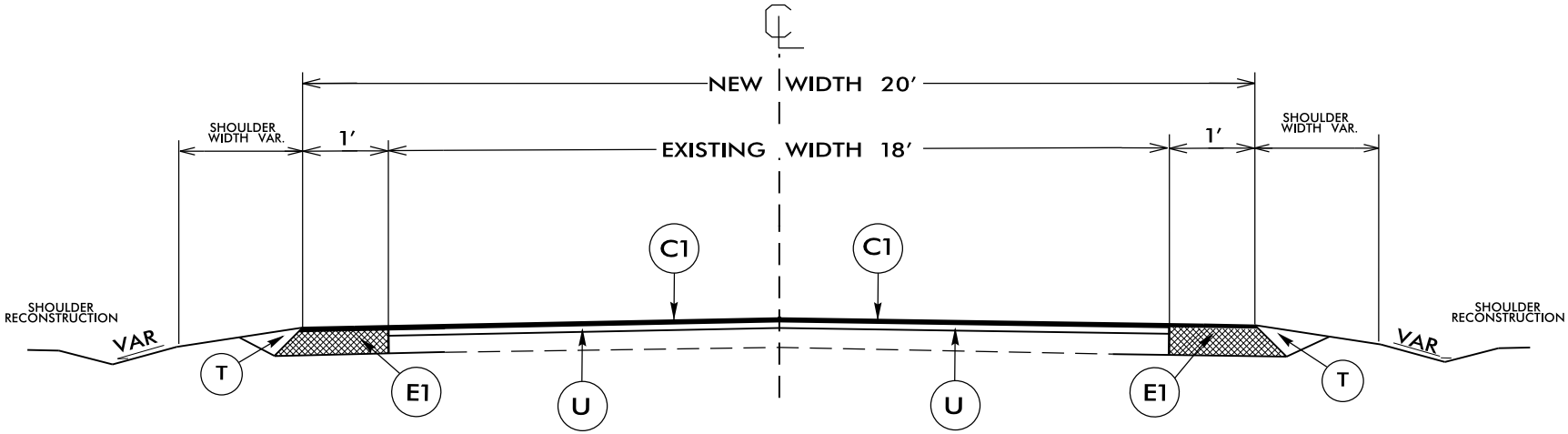
C1	PROP. APPROX. 1½″ ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
E1	PROP. APPROX. 5½″ ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.
T	EARTH MATERIAL.
U	EXISTING PAVEMENT.

NOTES:

*ALL PAVED S.R. ROADS TO BE RESURFACED TO THE ENDS OF THE RADI., OR AS DIRECTED BY THE ENGINEER

*EDGES, PAVEMENT WIDENING, INTERSECTIONS, AND BRIDGE FLARES ARE INCLUDED IN THE TABLE OF QUANTITIES

*PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE



TYPICAL SECTION NO.2

USE WITH MAP 2

NTS

PROJECT REFERENCE NO.	SHEET NO.
1C.070011, ETC.	3A

CROOKED RUN RD. (SR 1361)

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
SUB–REGIONAL & REGIONAL
LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48" & UNDER)

STATION	LOCATION (LT,RT, OR CL)	STRUCTURE NO.	DRAINAGE PIPE (RCP or CAAP) 12"	15"	18"	24"	30"	36"	42"	48"	DO NOT USE RCP	DO NOT USE CSP	DO NOT USE CAAP	DO NOT USE HDPE	DO NOT USE PVC	EXISTING PIPE LIN.FT.	REMARKS
1+06	X	301			30							X		X	X	27	12" CROSS–LINE
14+47	X	302										X		X	X	–	DO NOT REPLACE
26+03	X	303						40				X		X	X	40	36" CROSS–LINE
41+98	X	304							40			X		X	X	37	36" CROSS–LINE
64+89	X	305						37				X		X	X	37	30" CROSS–LINE
72+44	X	306					36					X		X	X	36	24" CROSS–LINE
79+78	X	308			60							X		X	X	60	15" CROSS–LINE
81+58	X	309			53							X		X	X	53	18" CROSS–LINE
85+43	X	310				40						X		X	X	36	24" CROSS–LINE
91+34	X	311			35							X		X	X	33	15" CROSS–LINE
97+62	X	312				72						X		X	X	72	24" CROSS–LINE
98+79	X	313			36							X		X	X	36	18" CROSS–LINE
104+60	X	314				36						X		X	X	36	24" CROSS–LINE
109+03	X	315								32		X		X	X	31	48" CROSS–LINE
118+06	X	316			34							X		X	X	33	15" CROSS–LINE
127+35	X	317			33							X		X	X	33	18" CROSS–LINE
TOTAL					281	148	36	77	40	32						600 (TOTAL)	

ABBREVIATIONS

C.B. CATCH BASIN
N.D.I. NARROW DROP INLET
D.I. DROP INLET
G.D.I. GRATED DROP INLET
G.D.I. (N.S.) GRATED DROP INLET (NARROW SLOT)
J.B. JUNCTION BOX
M.H. MANHOLE
T.B.D.I. TRAFFIC BEARING DROP INLET
T.B.J.B. TRAFFIC BEARING JUNCTION BOX

CROOKED RUN RD. (SR 1361)

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 54" & OVER)

STATION	LOCATION (LT,RT, OR CL)	STRUCTURE NO.	CORRUGATED ALLUMINUM ALLOY ARCH PIPE RISE 67" / SPAN 95" / .135	EXISTING PIPE LIN.FT.	REMARKS
74+66	X	307	60	53	60" CROSSLINE
TOTAL			60	53 (TOTAL)	

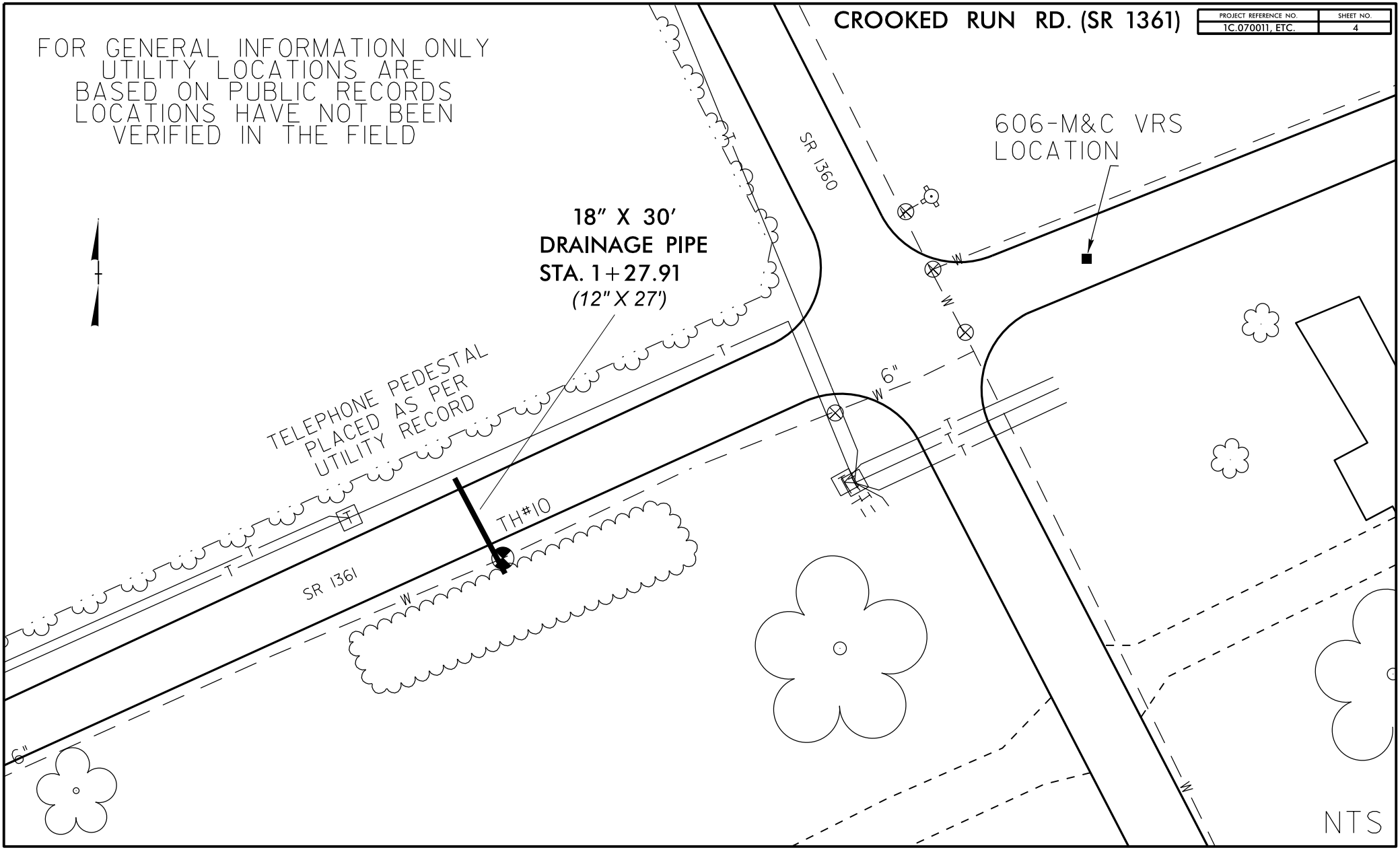
ABBREVIATIONS

C.B. CATCH BASIN
N.D.I. NARROW DROP INLET
D.I. DROP INLET
G.D.I. GRATED DROP INLET
G.D.I. (N.S.) GRATED DROP INLET (NARROW SLOT)
J.B. JUNCTION BOX
M.H. MANHOLE
T.B.D.I. TRAFFIC BEARING DROP INLET
T.B.J.B. TRAFFIC BEARING JUNCTION BOX

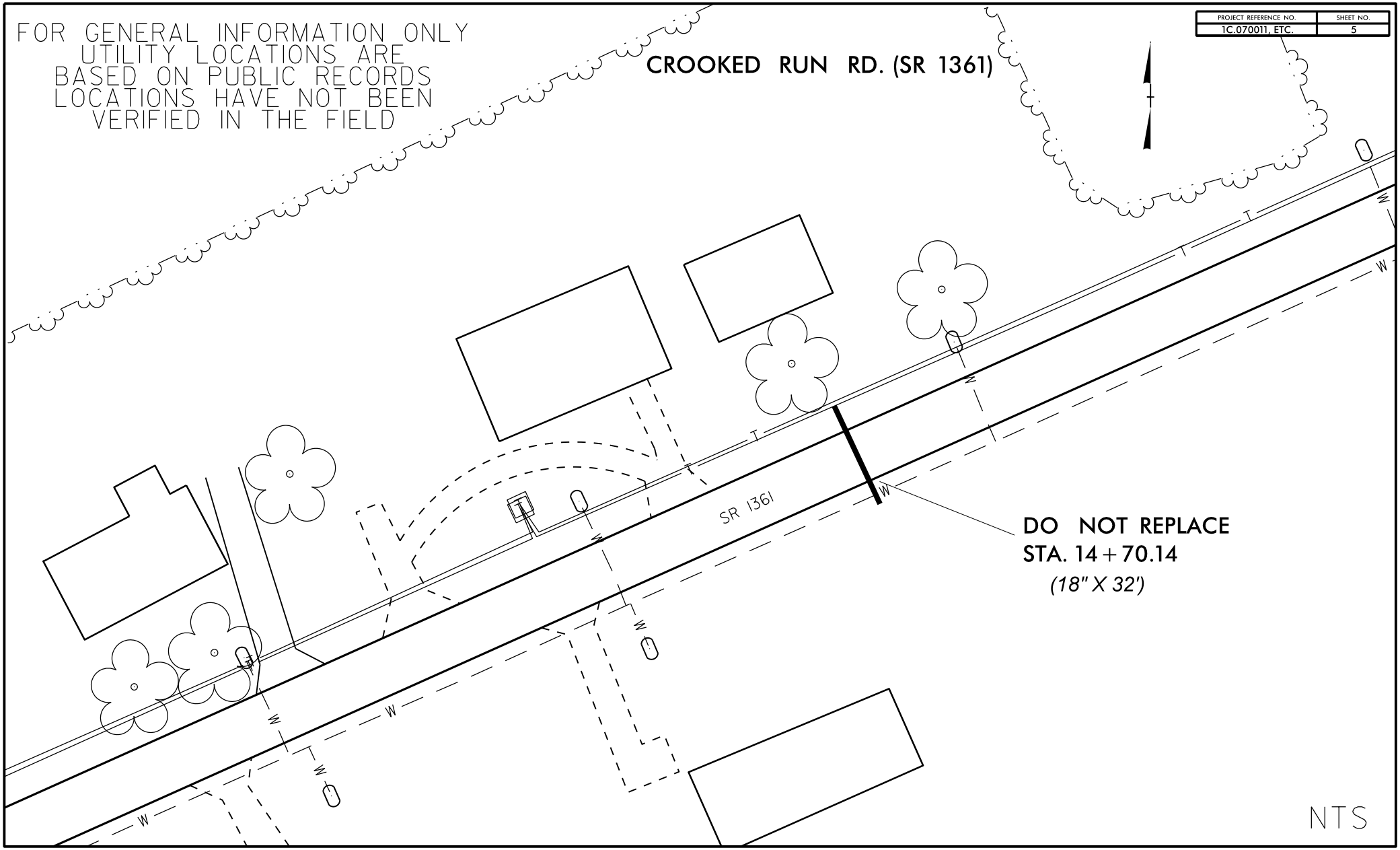
27-AUG-2012 16:31
DESIGN FILES\16_CrookedRun\1C.070011_ETC.dgn

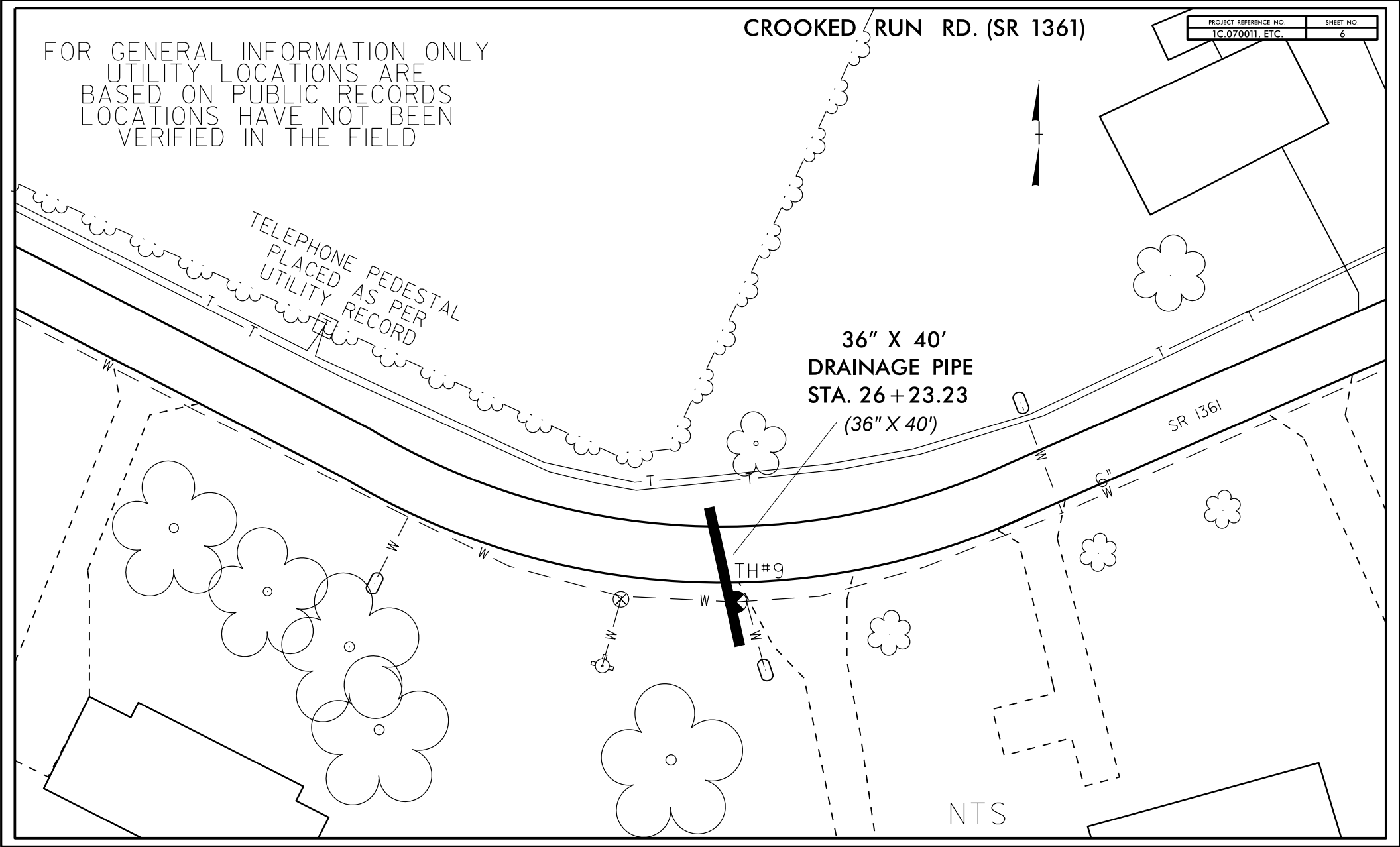
CROOKED RUN RD. (SR 1361)

PROJECT REFERENCE NO.	SHEET NO.
1C.070011, ETC.	4

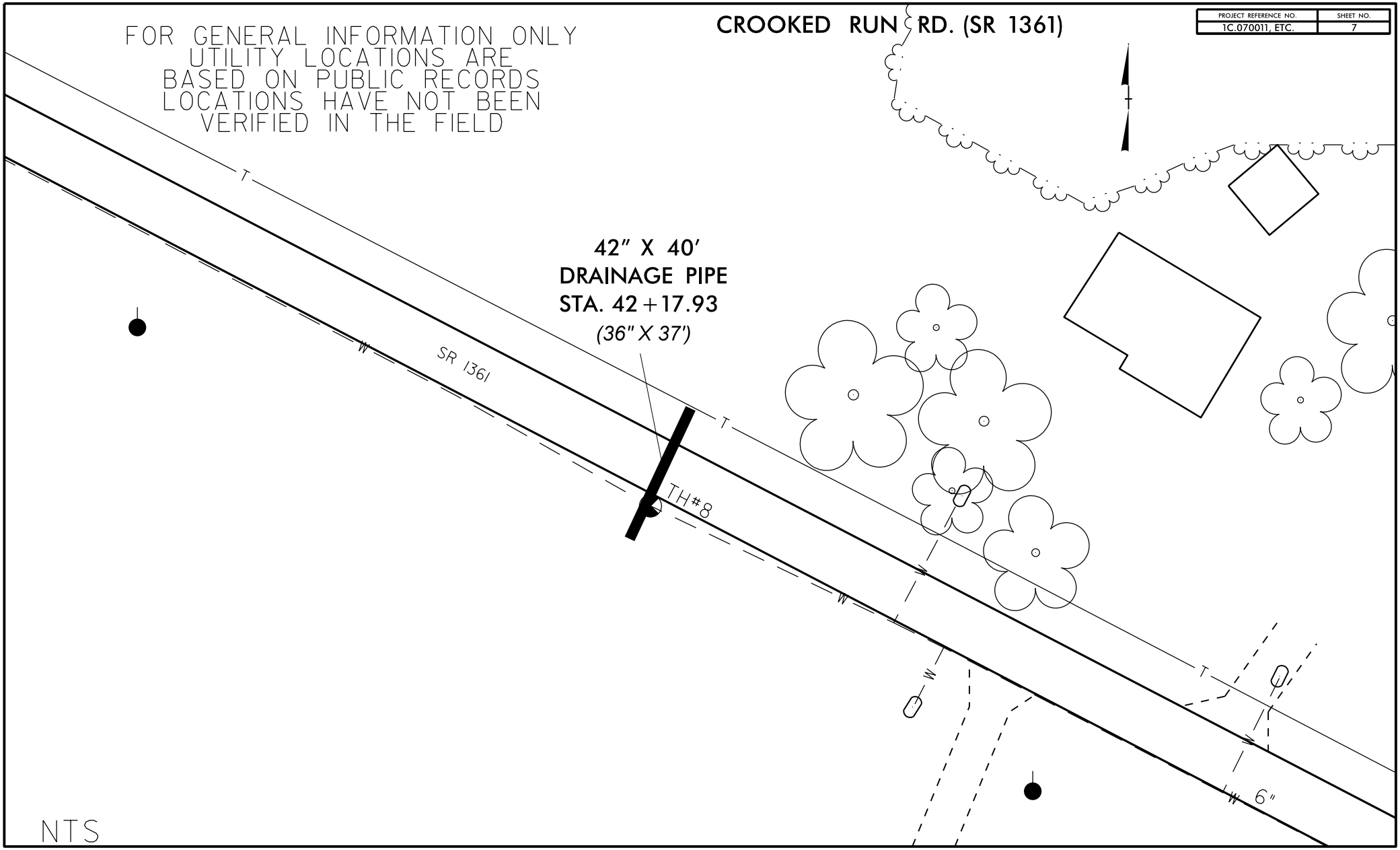


PROJECT REFERENCE NO.	SHEET NO.
1C.070011, ETC.	5



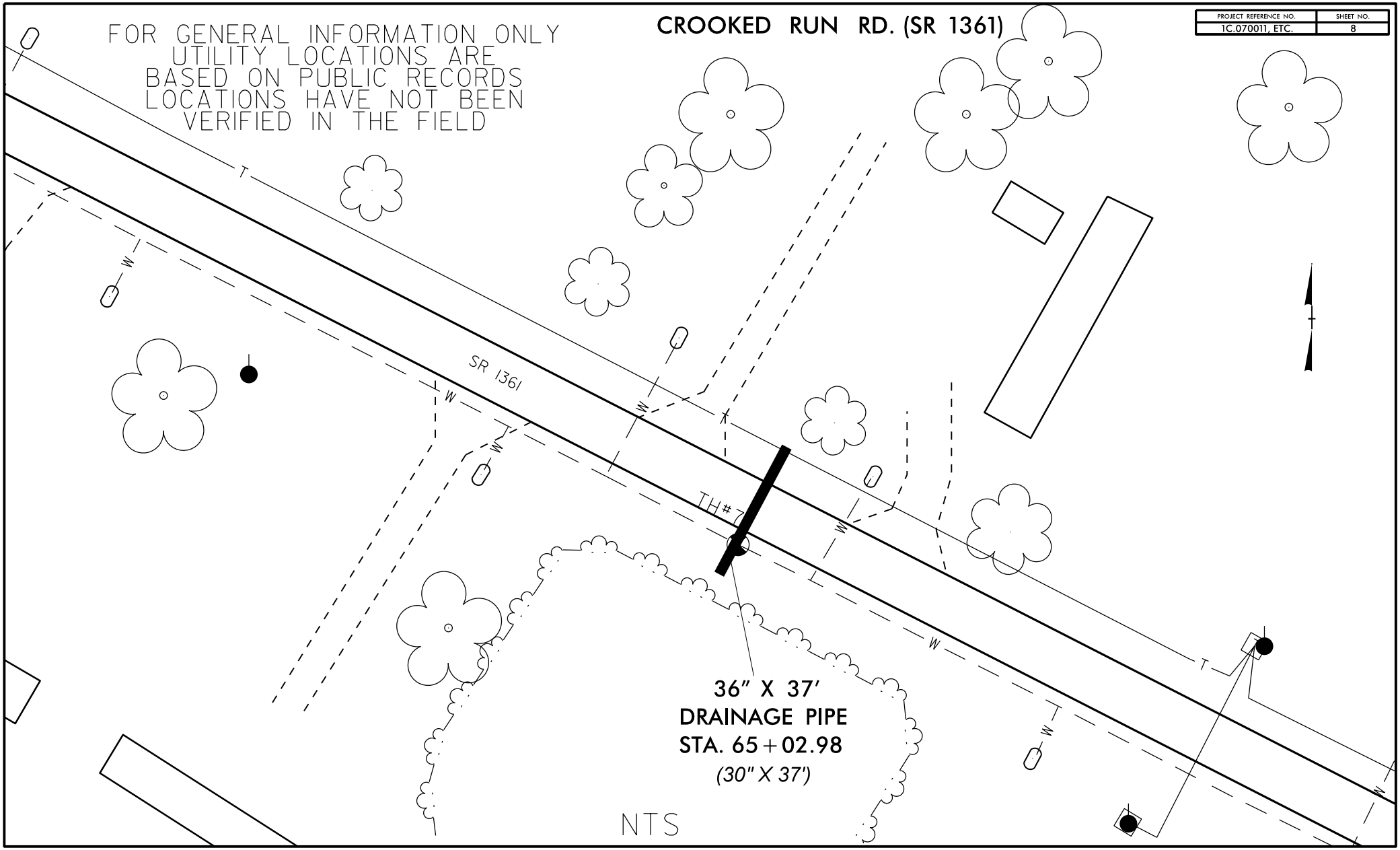

CROOKED RUN RD. (SR 1361)
PROJECT REFERENCE NO.
1C.070011, ETC.
SHEET NO.
6
FOR GENERAL INFORMATION ONLY
UTILITY LOCATIONS ARE
BASED ON PUBLIC RECORDS
LOCATIONS HAVE NOT BEEN
VERIFIED IN THE FIELD
TELEPHONE PEDESTAL
PLACED AS PER
UTILITY RECORD
36" X 40'
DRAINAGE PIPE
STA. 26+23.23
(36" X 40')
SR 1361
6"
TH#9
NTS

PROJECT REFERENCE NO.	SHEET NO.
1C.070011, ETC.	7



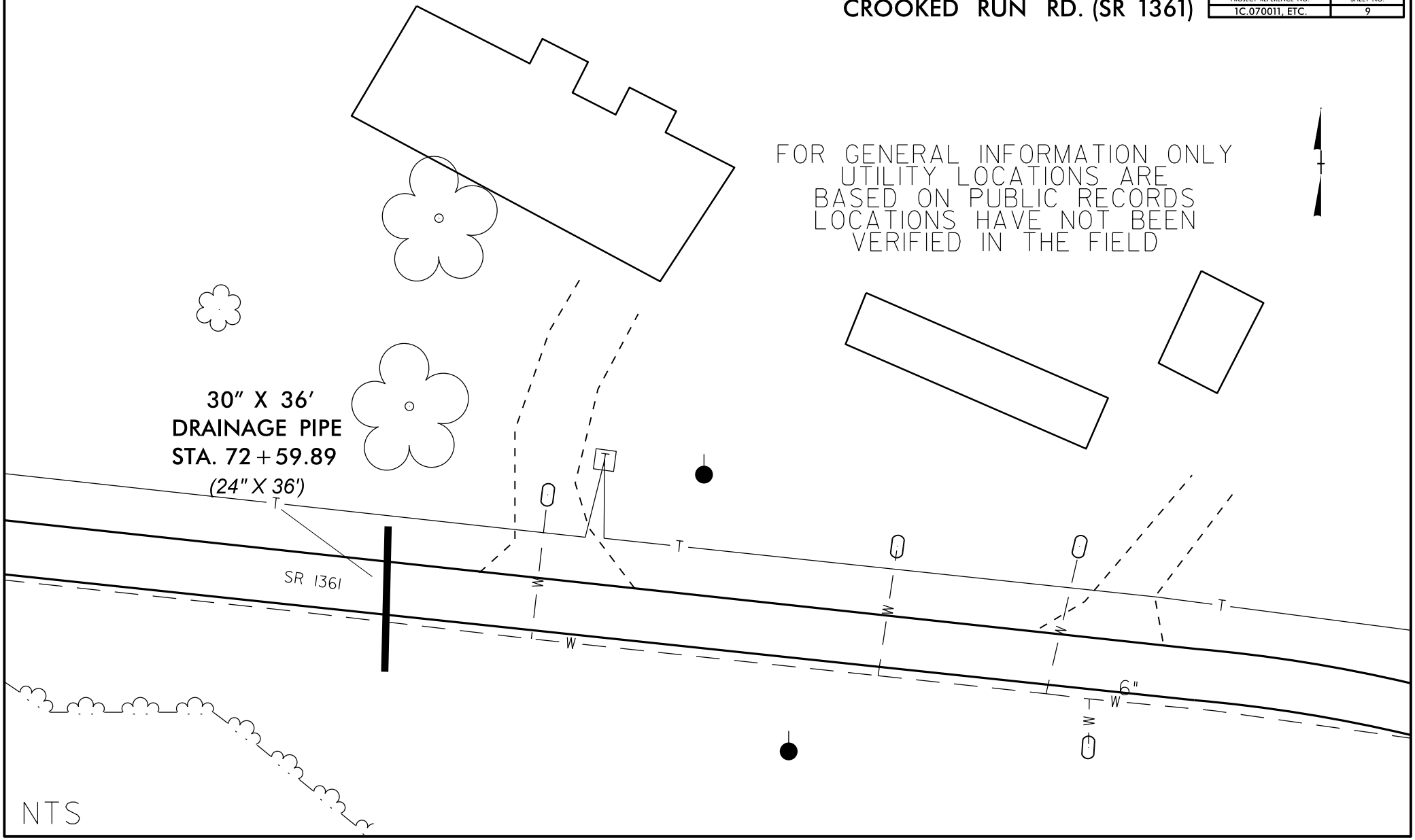
PROJECT REFERENCE NO.	SHEET NO.
1C.070011, ETC.	8

CROOKED RUN RD. (SR 1361)



CROOKED RUN RD. (SR 1361)

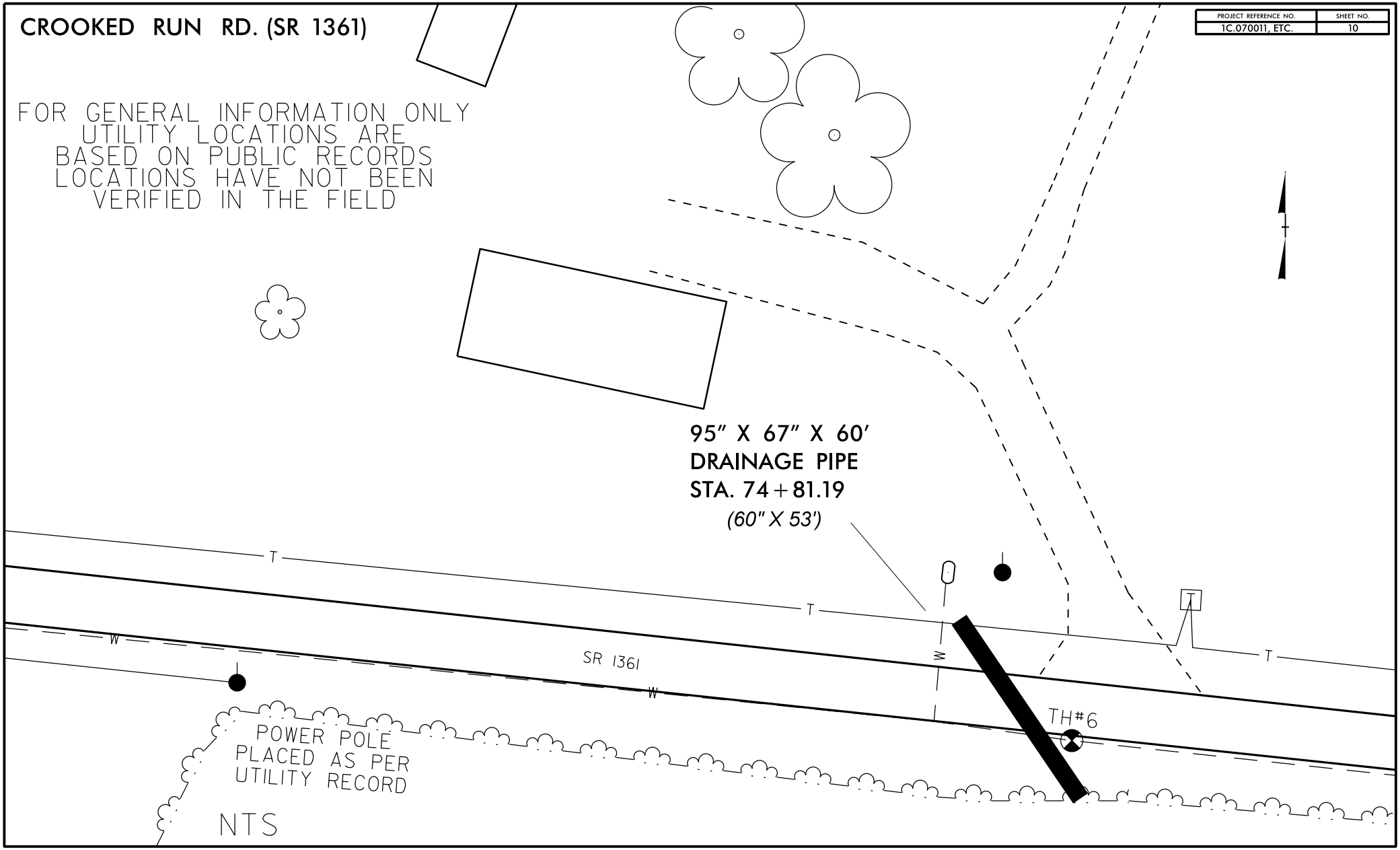
PROJECT REFERENCE NO.	SHEET NO.
1C.070011, ETC.	9



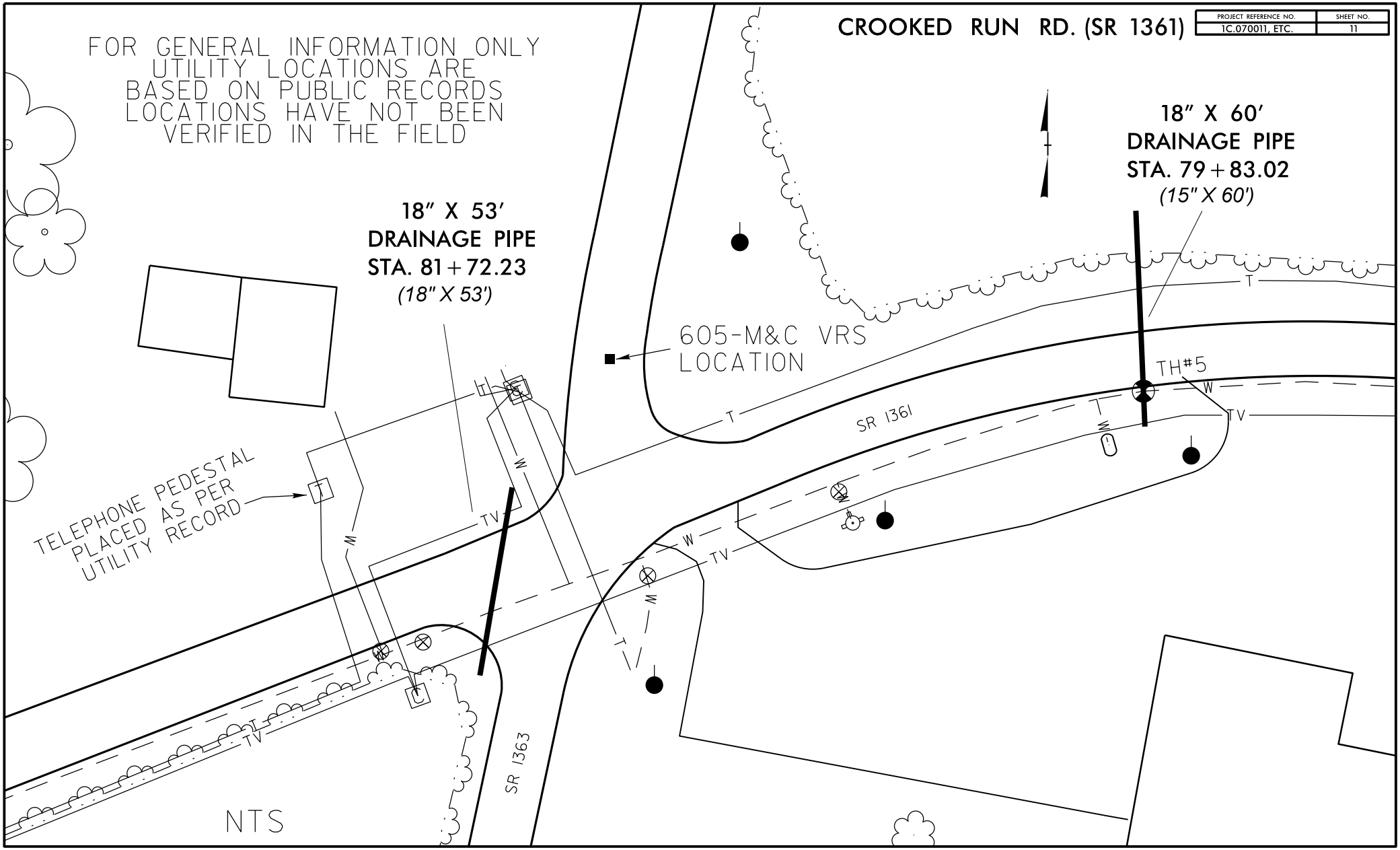
PROJECT REFERENCE NO.	SHEET NO.
1C.070011, ETC.	10

CROOKED RUN RD. (SR 1361)

FOR GENERAL INFORMATION ONLY
UTILITY LOCATIONS ARE
BASED ON PUBLIC RECORDS
LOCATIONS HAVE NOT BEEN
VERIFIED IN THE FIELD



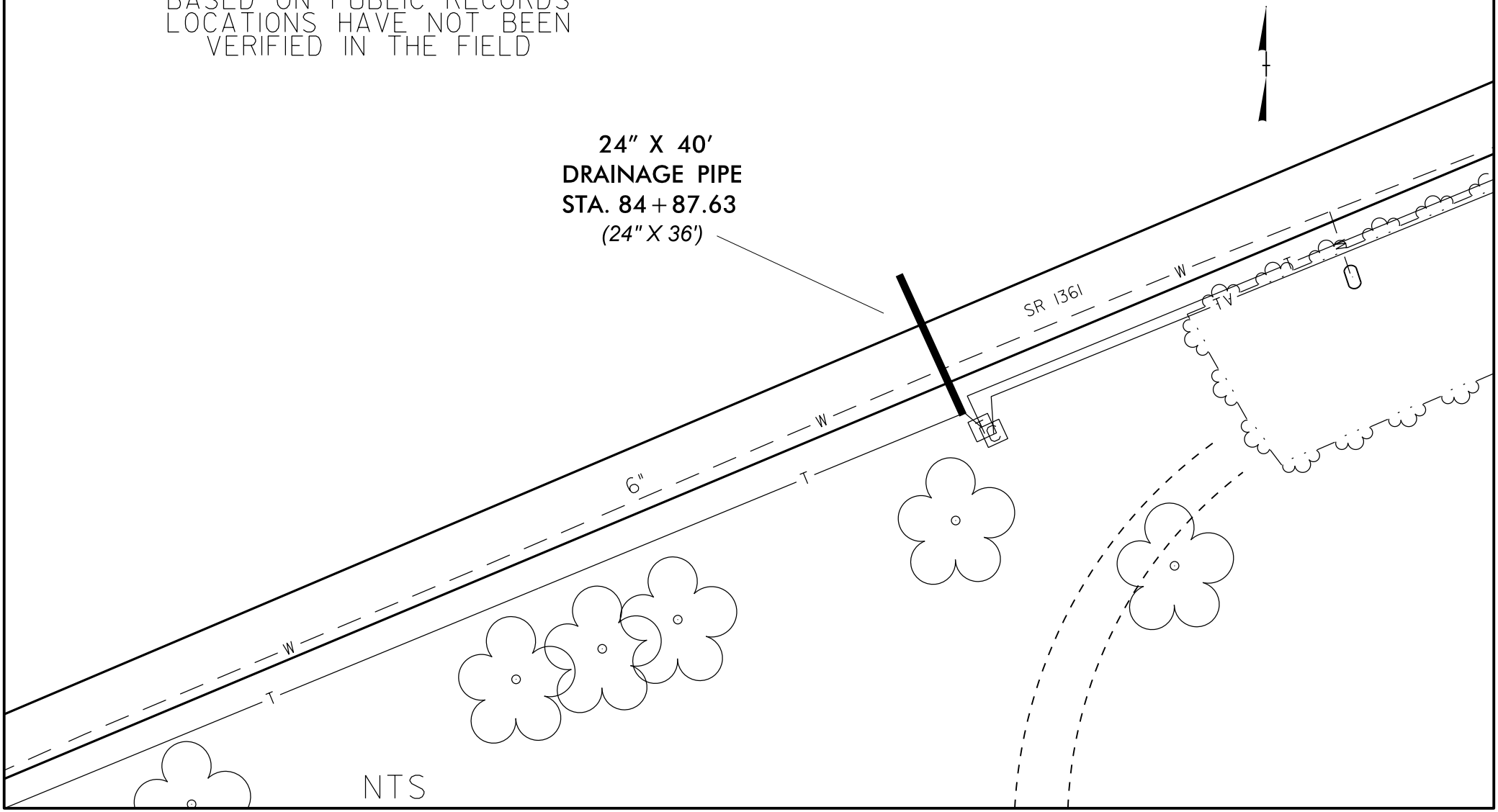
NTS


CROOKED RUN RD. (SR 1361)
PROJECT REFERENCE NO.
1C.070011, ETC.
SHEET NO.
11
FOR GENERAL INFORMATION ONLY
UTILITY LOCATIONS ARE
BASED ON PUBLIC RECORDS
LOCATIONS HAVE NOT BEEN
VERIFIED IN THE FIELD
18" X 53'
DRAINAGE PIPE
STA. 81+72.23
(18" X 53')
18" X 60'
DRAINAGE PIPE
STA. 79+83.02
(15" X 60')
605-M&C VRS
LOCATION
TH#5
SR 1361
SR 1363
TELEPHONE PEDESTAL
PLACED AS PER
UTILITY RECORD
T
W
TV
NTS

CROOKED RUN RD. (SR 1361)

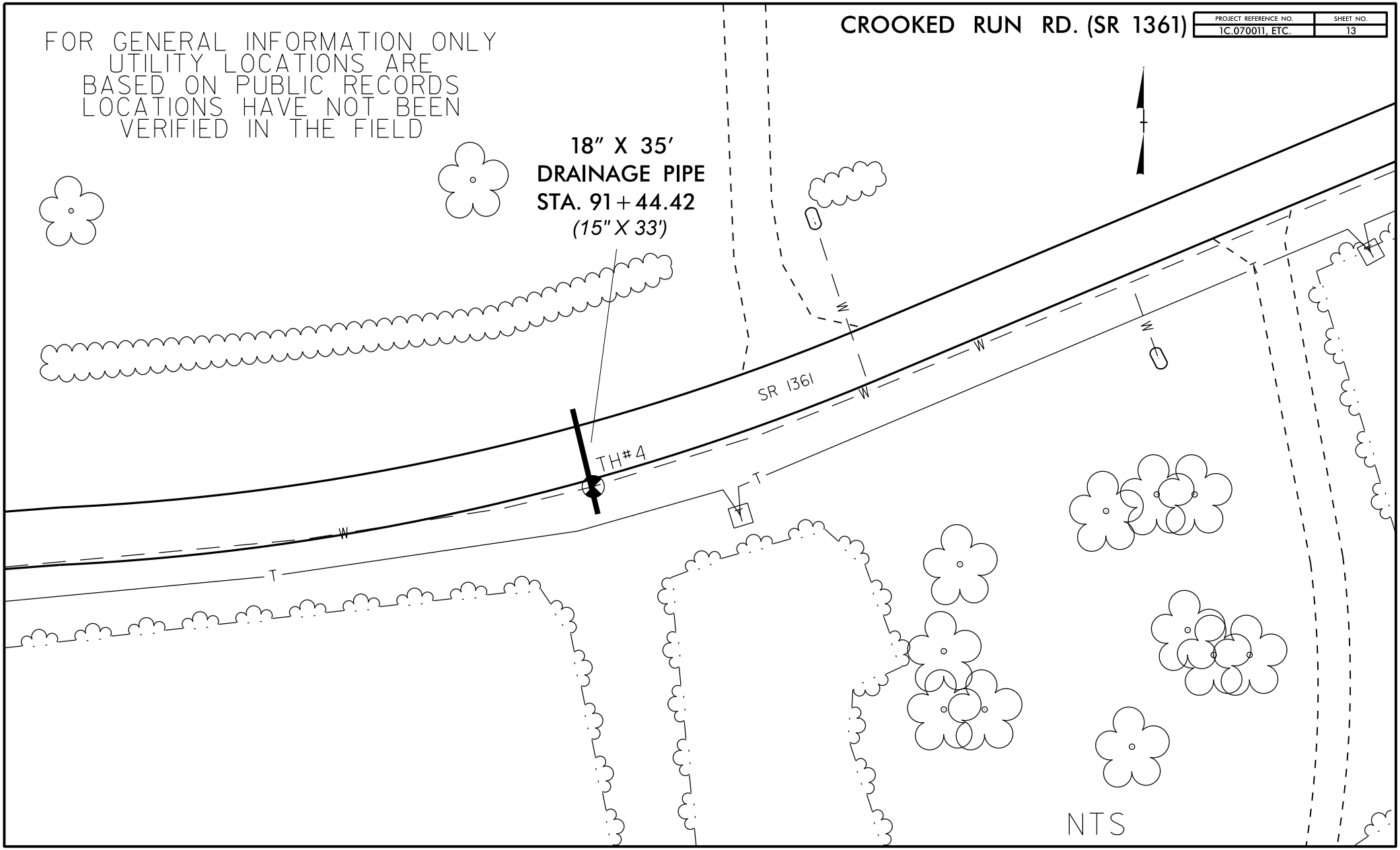
PROJECT REFERENCE NO.	SHEET NO.
1C.070011, ETC.	12

FOR GENERAL INFORMATION ONLY
UTILITY LOCATIONS ARE
BASED ON PUBLIC RECORDS
LOCATIONS HAVE NOT BEEN
VERIFIED IN THE FIELD



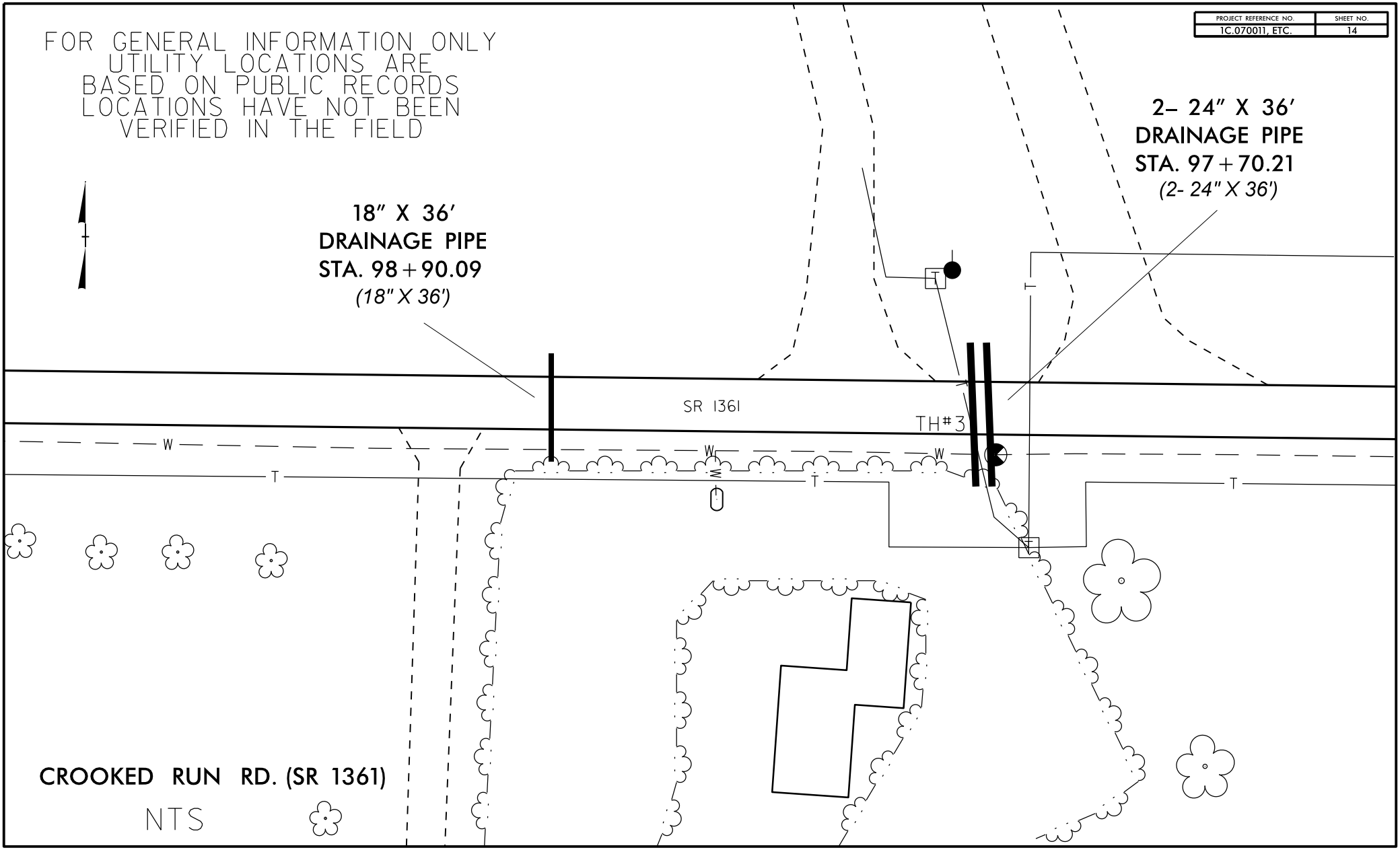
CROOKED RUN RD. (SR 1361)

PROJECT REFERENCE NO.	SHEET NO.
1C.070011, ETC.	13



PROJECT REFERENCE NO.	SHEET NO.
1C.070011, ETC.	14

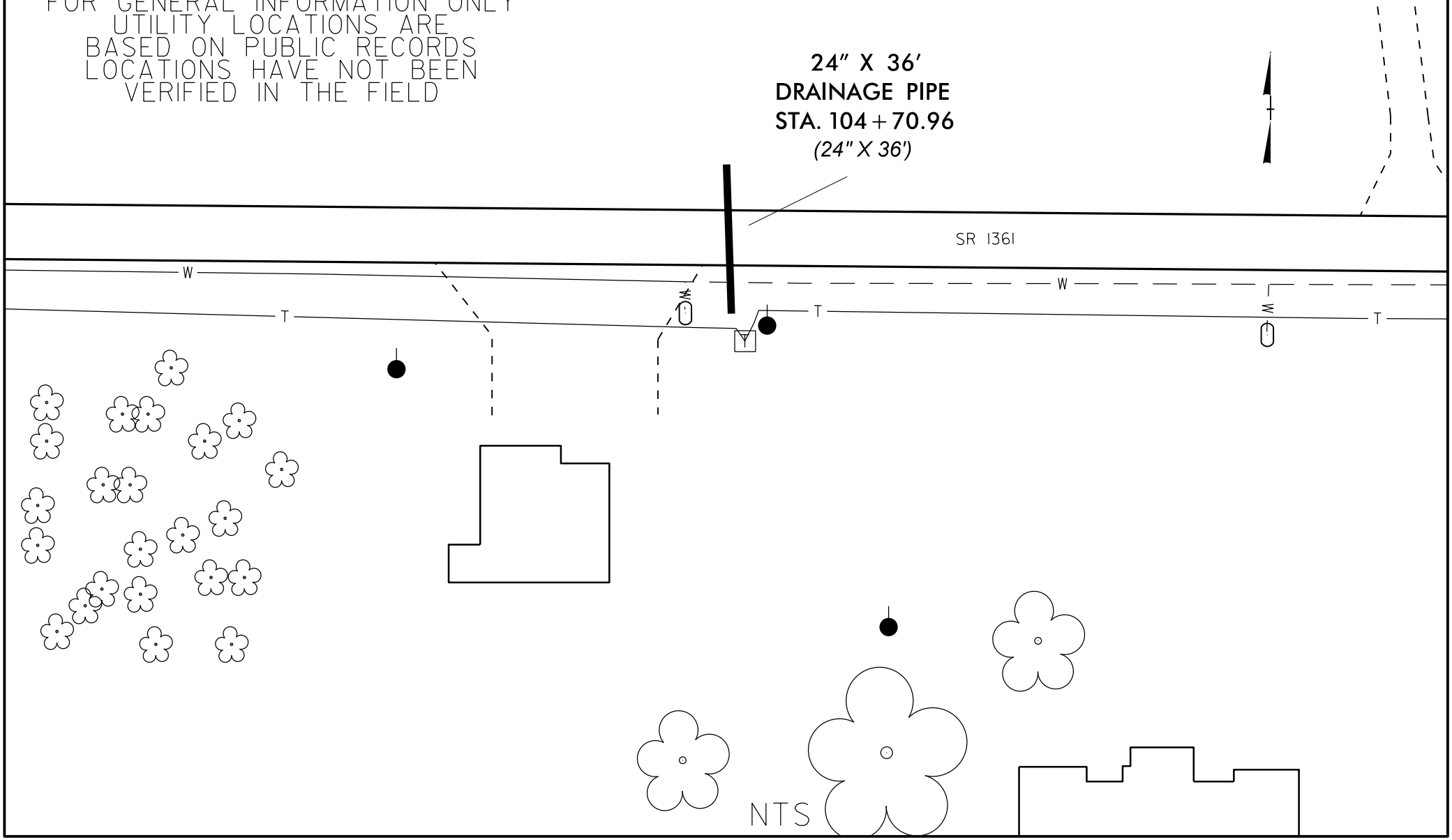
FOR GENERAL INFORMATION ONLY
UTILITY LOCATIONS ARE
BASED ON PUBLIC RECORDS
LOCATIONS HAVE NOT BEEN
VERIFIED IN THE FIELD



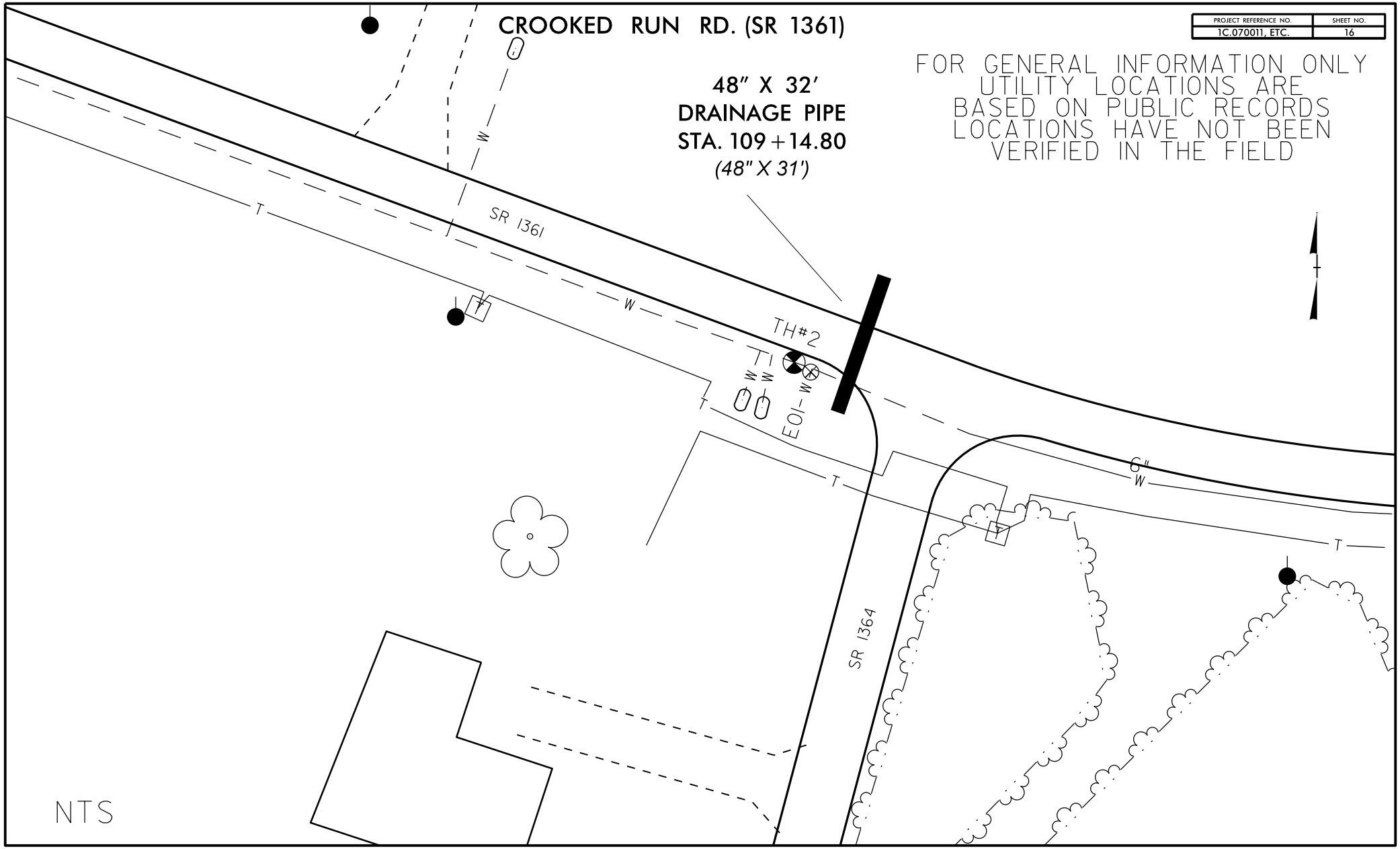
CROOKED RUN RD. (SR 1361)

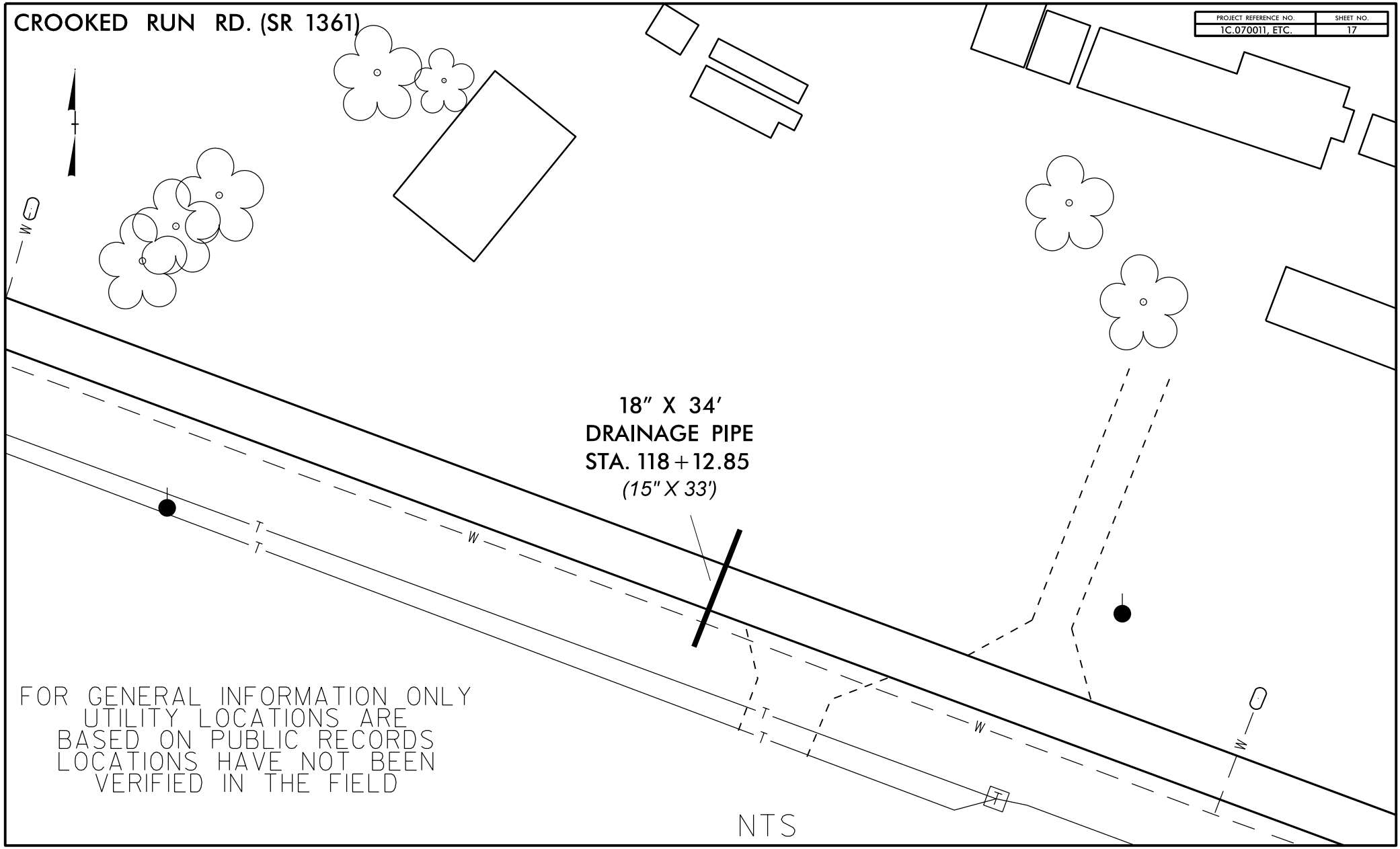
PROJECT REFERENCE NO.	SHEET NO.
1C.070011, ETC.	15

FOR GENERAL INFORMATION ONLY
UTILITY LOCATIONS ARE
BASED ON PUBLIC RECORDS
LOCATIONS HAVE NOT BEEN
VERIFIED IN THE FIELD



PROJECT REFERENCE NO.	SHEET NO.
1C.070011, ETC.	16

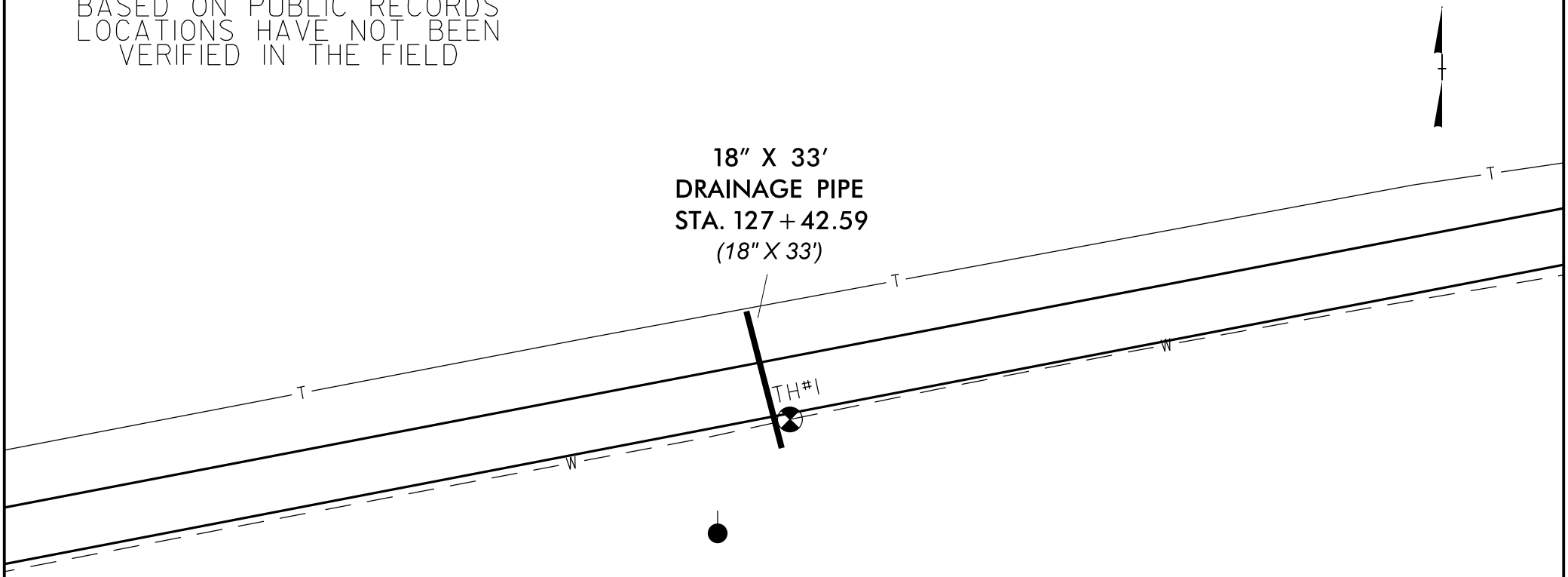



CROOKED RUN RD. (SR 1361)
PROJECT REFERENCE NO.
1C.070011, ETC.
SHEET NO.
17
18" X 34'
DRAINAGE PIPE
STA. 118+12.85
(15" X 33')
W
T
FOR GENERAL INFORMATION ONLY
UTILITY LOCATIONS ARE
BASED ON PUBLIC RECORDS
LOCATIONS HAVE NOT BEEN
VERIFIED IN THE FIELD
NTS

CROOKED RUN RD. (SR 1361)

PROJECT REFERENCE NO.	SHEET NO.
1C.070011, ETC.	18

FOR GENERAL INFORMATION ONLY
UTILITY LOCATIONS ARE
BASED ON PUBLIC RECORDS
LOCATIONS HAVE NOT BEEN
VERIFIED IN THE FIELD



NTS

PROJECT NO.	SHEET NO.	TOTAL NO.
1C.070011, ETC.		

SUMMARY OF QUANTITIES

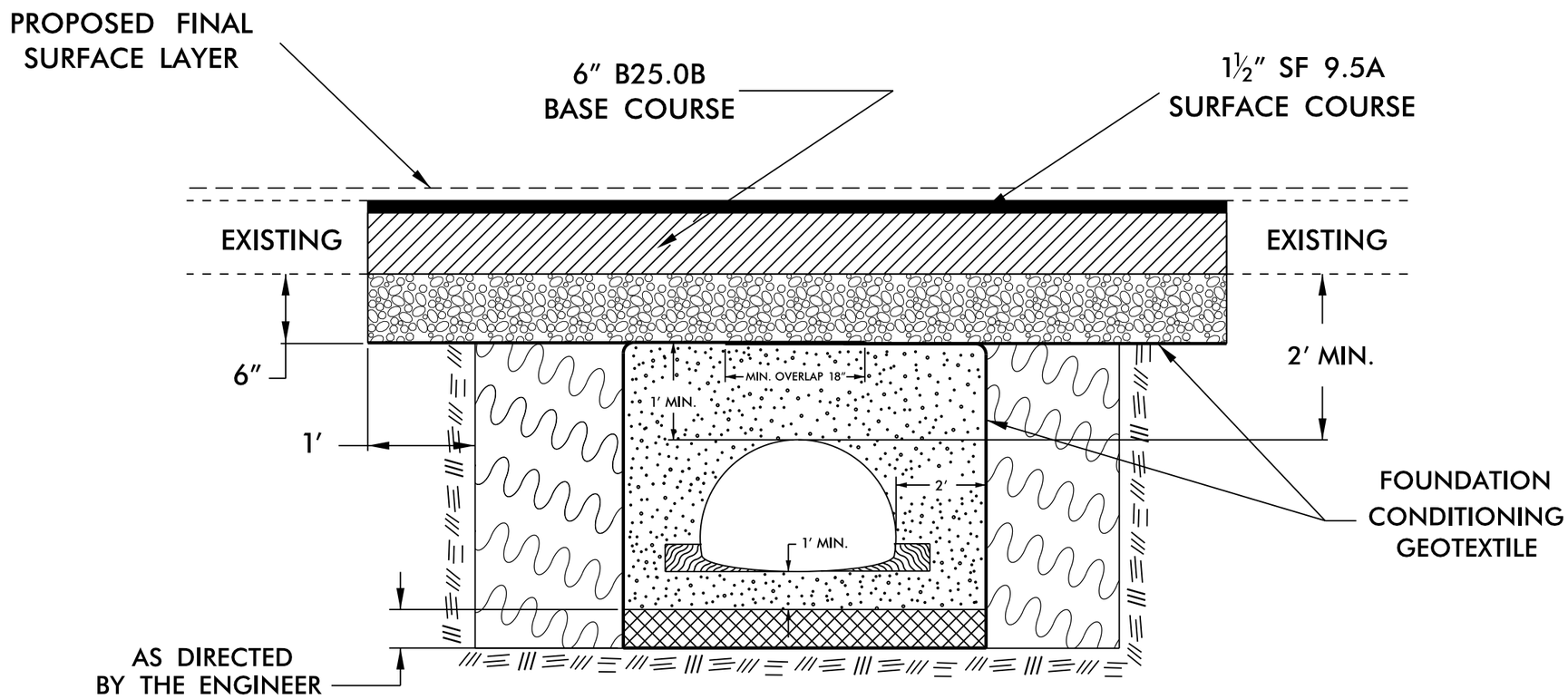
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	FINAL SURFACE TESTING REQUIRED	LENGTH MI	WIDTH FT	MOBILIZATION LS	BORROW CY	CONDITIONING EXISTING BASE MSY	PRIME COAT GAL	FOUNDATION CONDITIONING MATERIAL, MINOR STRUCTURES TONS	FOUNDATION CONDITIONING GEOTEXTILE SY	AGGREGATE BASE COURSE TON	18" DRAINAGE PIPE LF	24" DRAINAGE PIPE LF	30" DRAINAGE PIPE LF	36" DRAINAGE PIPE LF	42" DRAINAGE PIPE LF	48" DRAINAGE PIPE LF	95" X 67" CAA Pipe Arch, (.135" Thick Single Pipe, 60 Feet Long) EA	INCIDENTAL STONE BASE TON	SHOULDER RECONSTRUCTION SMI	BASE COURSE, B25.0B TON	SURFACE COURSE, SF9.5A TON	SURFACE COURSE, S9.5B TON	ASPHALT BINDER FOR PLANT MIX TON	ASPHALT PLANT MIX PAVEMENT REPAIR TON	RIP RAP, CLASS B TON	TEMPORARY SILT FENCE LF	MATTING FOR EROSION CONTROL SY	WATTLE LF	POLYACRYLAMIDE (PAM) LB	SEED & MULCHING ACR
1C.070011	Pasquotank	1	SR 1469	FROM SR 1354 TO STATION 32 + 44	1	NO	0.6	22	1	30	8.0	2,710											100	1.2			961	58			100		40	7	0.5
1C.070040	Pasquotank	2	SR 1361	FROM SR 1356 TO SR 1360	2	NO	2.58	18	*	115			130	766	123	281	148	36	77	40	32	1	100	5.16	1,413	2552		233	126	60	650	64	250	14	2.6
TOTAL							**3.18**		**1**	**145**	**8.0**	**2,710**	**130**	**766**	**123**	**281**	**148**	**36**	**77**	**40**	**32**	**1**	**200**	**6.36**	**1,413**	**2,552**	**961**	**291**	**126**	60	**750**	**64**	**290**	**21**	**3.1**

THERMOPLASTIC AND PAINT QUANTITIES

					LENGTH	WIDTH	TEMPORARY TRAFFIC CONTROL LS	4" X 90 M WHITE THERMO LF	4" X 120 M YELLOW THERMO LF
1C.070011	Pasquotank	1	SR 1469	FROM SR 1354 TO	0.6	22	1	6,456	3,960
1C.070040	Pasquotank	3	SR 1361	FROM SR 1356 TO SR 1360	2.58	18	*	27,500	17,028
TOTAL					**3.18**		**1**	**33,956**	**20,988**

PROJECT REFERENCE NO.	SHEET NO.

INSTALLATION DETAIL



CORRUGATED ALUMINUM ALLOY PIPE ARCH WITH OR WITHOUT HEADWALL

- #57 STONE
- SELECT BACKFILL MATERIAL CLASS III OR CLASS II OR OTHER APPROVED MATERIAL BY THE ENGINEER
- SELECT MATERIAL CLASS V OR VI FOR FOUNDATION CONDITIONING. ENCAPSULATE WITH ENGINEERING FABRIC AS DIRECTED BY THE ENGINEER
- AGGREGATE BASE COURSE
- TAKE CARE TO FULLY COMPACT HAUNCH ZONE OF PIPE BACKFILL
- UNDISTURBED EARTH MATERIAL

– NOT TO SCALE –

REVISIONS

09-MAR-2012 11:44
C:\DX\Current Projects\DIVISION PROPOSALS\IC.070011, ETC. (Crooked Run Rd_Pear Tree & Sandy Road)(Sent To Raleigh)\Plan Sheets\IC.070011, ETC Title & Typicals.dgn

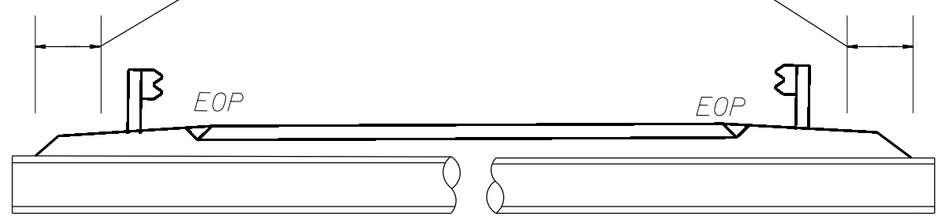
PROJECT REFERENCE NO.	SHEET NO.
IC.070011, ETC.	

NOTES: Less than 5' - 10' undisturbed buffer from ROW, ditchline, water feature, or drainage inlet, add BMP.

BMP Options: Wattle or Silt Fence

EROSION CONTROL DETAIL

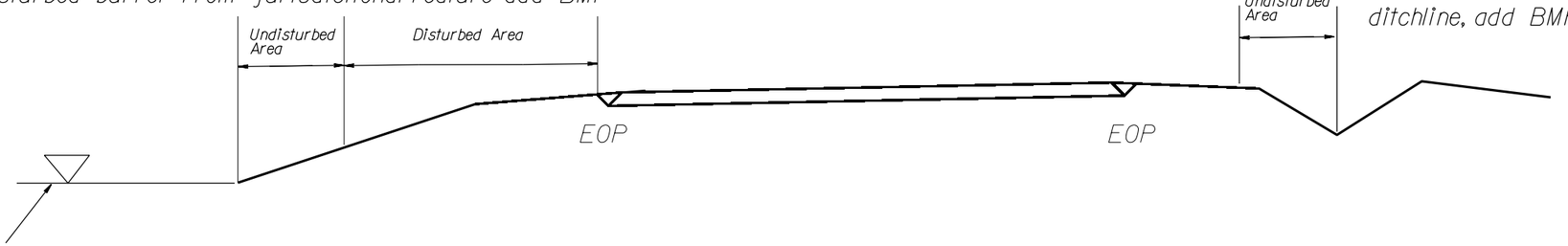
< 5' - 10' Undisturbed buffer add BMP



Pipe/Culvert

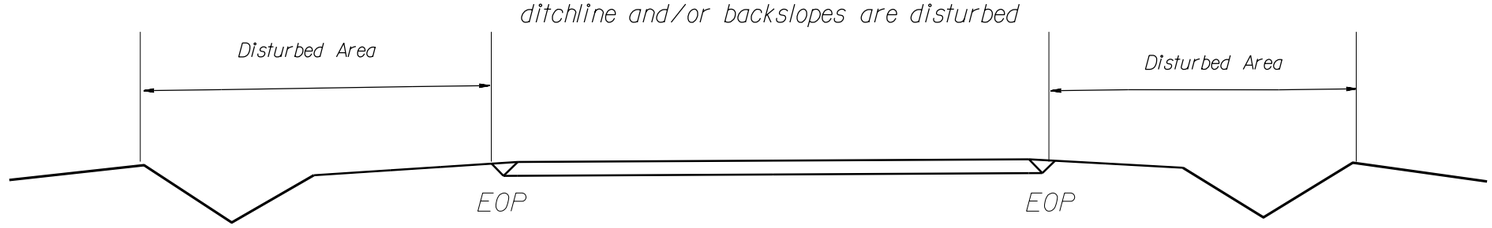
< 5' - 10' Undisturbed buffer from jurisdictional feature add BMP

< 5' - 10' Undisturbed buffer from ditchline, add BMP

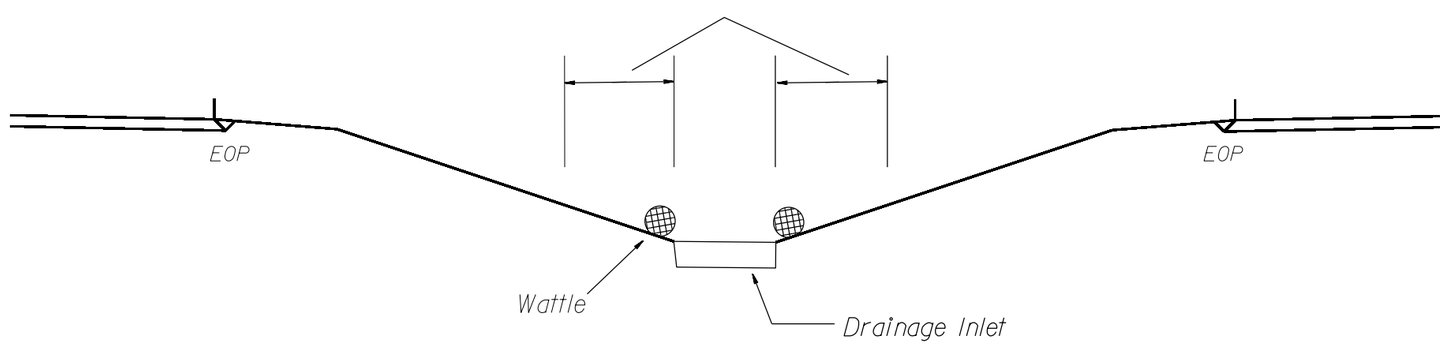


Jurisdictional Feature

Use BMP's if shoulders and/or frontslopes and/or ditchline and/or backslopes are disturbed



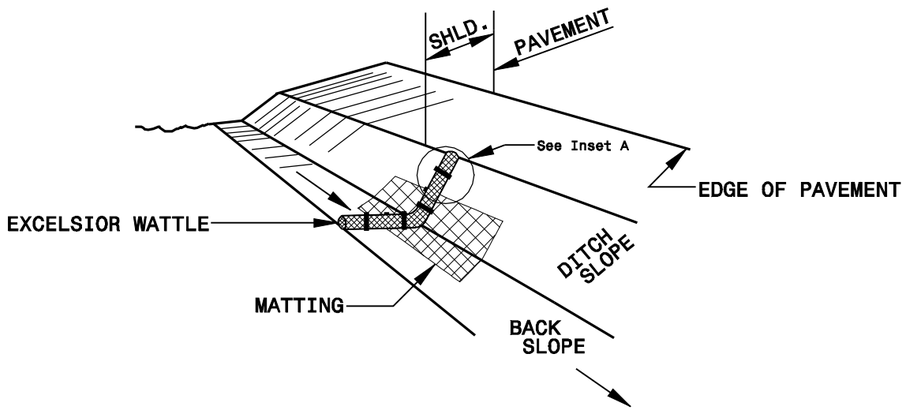
< 5' - 10' Undisturbed buffer from inlet, add wattle



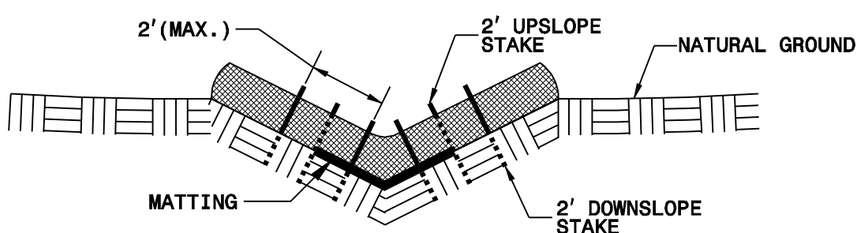
NOT TO SCALE

PROJECT REFERENCE NO.	SHEET NO.
X-XXXX	EC-2G
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

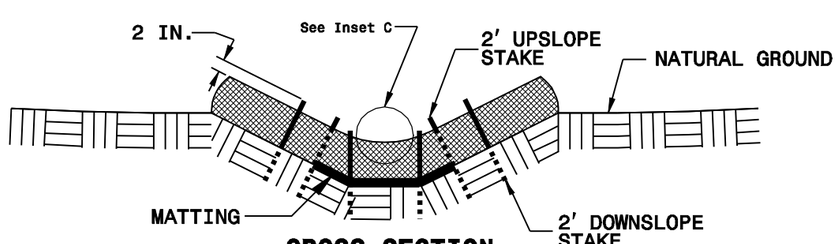
WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL



ISOMETRIC VIEW



CROSS SECTION VEE DITCH



CROSS SECTION TRAPEZOIDAL DITCH

NOTES:

USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.

USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.

ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.

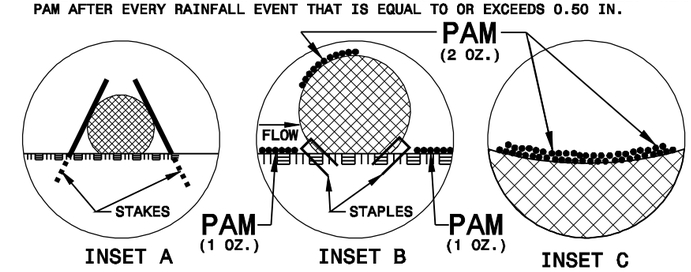
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

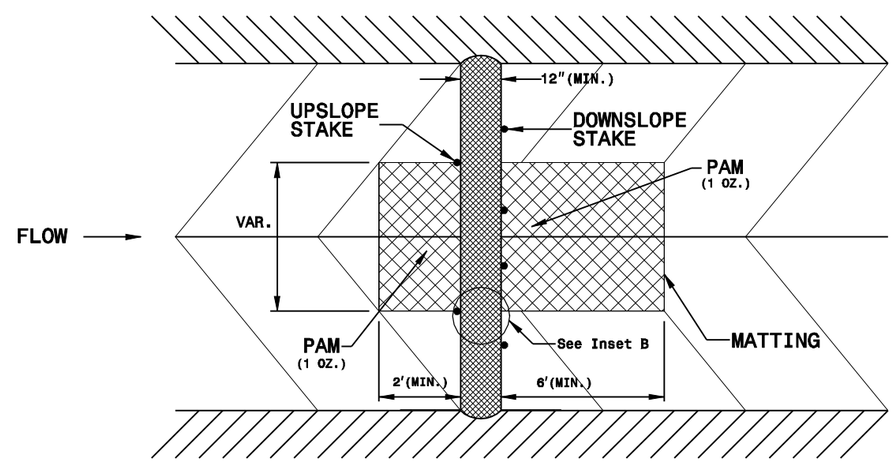
INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.

PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH WATTLE.

INITIALLY APPLY 2 OUNCES OF ANIONIC OR NEUTRALLY CHARGED PAM OVER WATTLE WHERE WATER WILL FLOW AND 1 OUNCE OF PAM ON MATTING ON EACH SIDE OF WATTLE. REAPPLY PAM AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.50 IN.

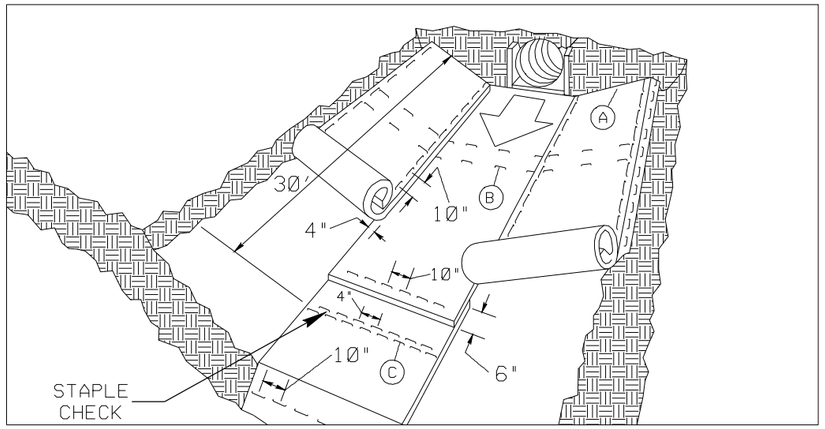




TOP VIEW

PROJECT REFERENCE NO.	SHEET NO.
X-XXXX	EC-2G
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

MATTING INSTALLATION DETAIL



MATTING IN DITCHES

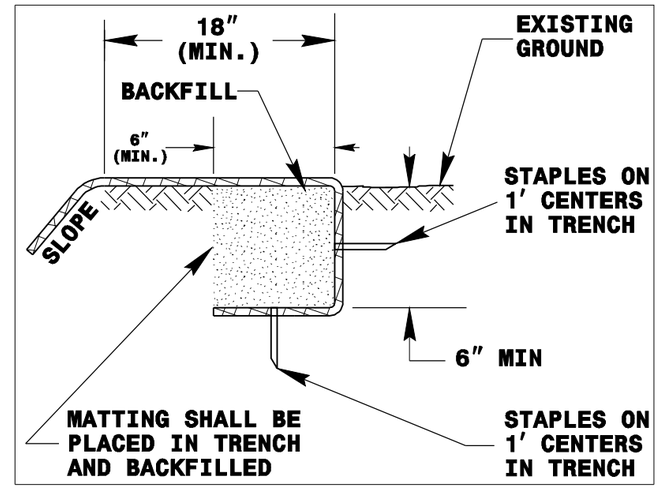
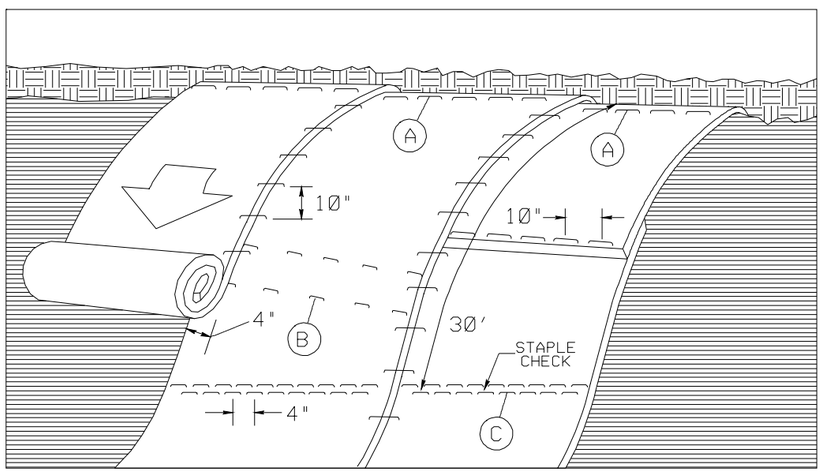


DIAGRAM (A)



MATTING ON SLOPES

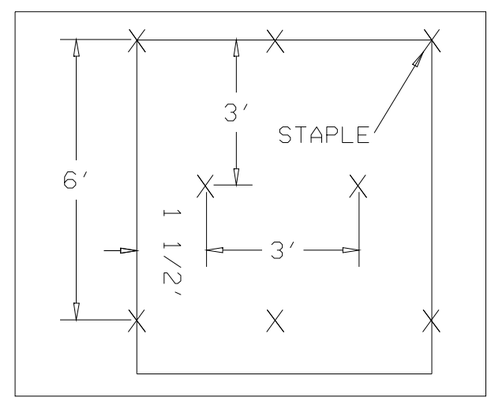


DIAGRAM (B)

STAPLE CHECK PATTERN

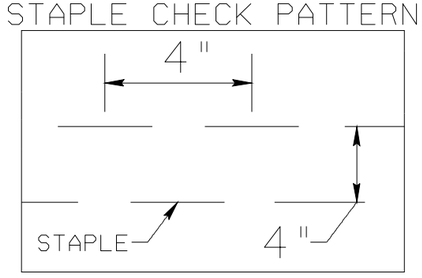


DIAGRAM (C)

NOTES:

THIS DETAIL APPLIES TO STRAW, EXCELSIOR, AND PERMANENT SOIL REINFORCEMENT MAT (PSRM) INSTALLATION.

STAPLES SHALL BE NO. 11 GAUGE STEEL WIRE FORMED INTO A "U" SHAPE WITH A MINIMUM THROAT WIDTH OF 1 INCH AND NOT LESS THAN 6 INCHES IN LENGTH.

NOT TO SCALE