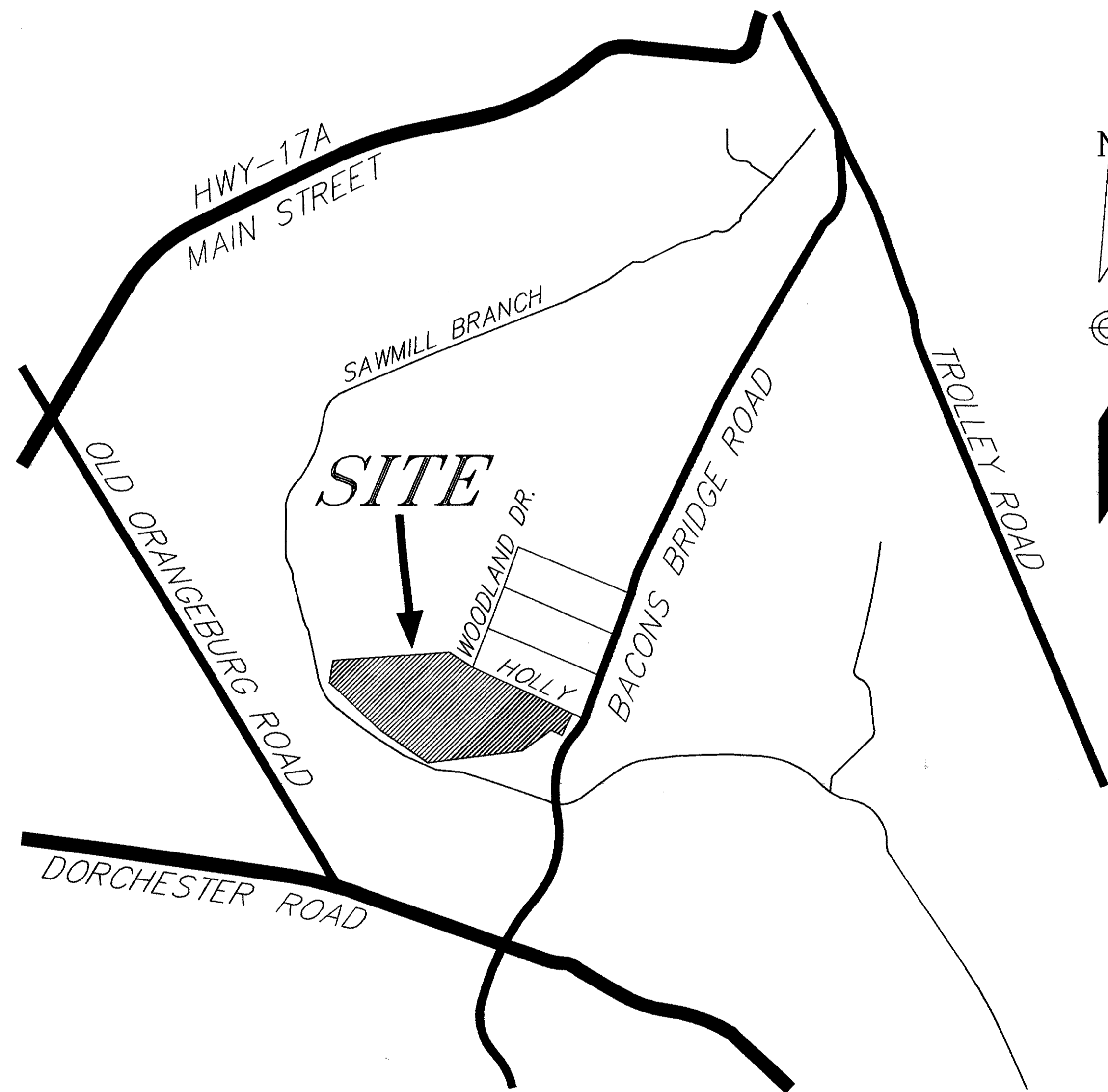


PHASE II-ARBOR OAKS SUBDIVISION

LOCATED IN
THE TOWN OF SUMMERVILLE
DORCHESTER COUNTY, SOUTH CAROLINA

SHT. NO.	SHEET INDEX	CURRENT REVISION
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25	EROSION CONTROL PLAN	-- 01-29-2002
26	EROSION CONTROL PLAN	-- 01-29-2002
27	EROSION CONTROL PLAN	-- 01-29-2002
28	EROSION CONTROL DETAILS	-- 01-29-2002



CONTACTS

WATER
 SUMMERVILLE CPW
 CHRIS KAHLER
 PHONE: 875-8761

SEWER
 SUMMERVILLE CPW
 CHRIS KAHLER
 PHONE: 875-8761

ROADS & DRAINAGE

TOWN OF SUMMERVILLE
 ENGINEERING
 MATT HALTER
 PHONE: 871-6000

ELECTRIC

SCE&G
 CHUCK HYATT
 PHONE: 851-4917

PHONE

BELLSOUTH
 HENRY DOMINGO
 PHONE: 722-5074

CABLE

TIME-WARNER CABLE
 BARBARA TAYLOR
 PHONE: 871-8710

CONTRACTOR

ROGERS & SON, INC.
 FRED SKIPPER
 PHONE: 873-7796

OWNER:

GRAMLING BROTHERS
REAL ESTATE AND DEVELOPMENT
 P.O. Box 389
 GRAMLING, SOUTH CAROLINA 29348
 (864) 472-2157

ENGINEER:

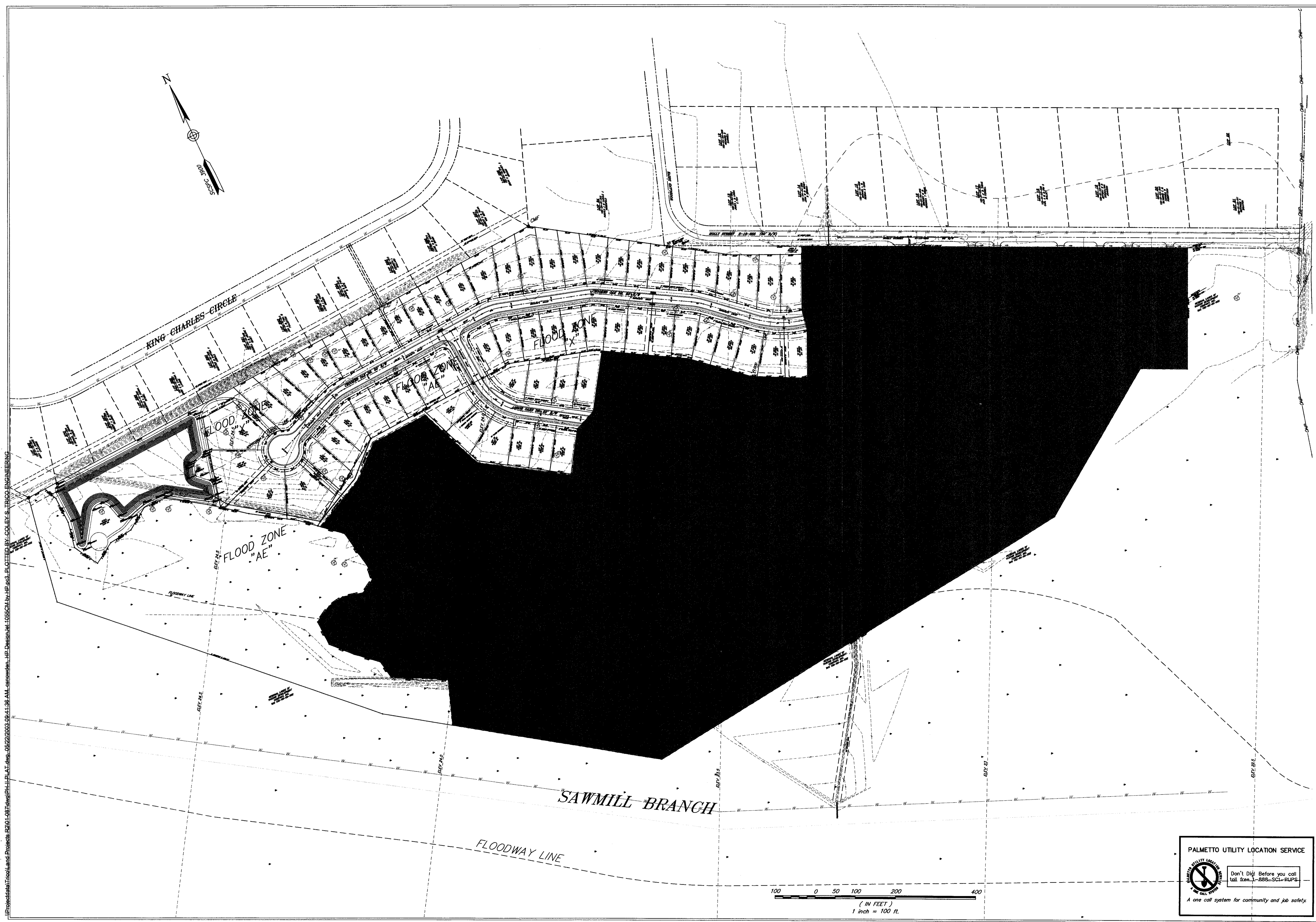


4425 BELLE OAKS DRIVE
 NORTH CHARLESTON, SOUTH CAROLINA 29405
 (843) 740-7700

APPROVED
Matthew J. Halter
 MATTHEW HALTER, P.E., L.S.
 TOWN ENGINEER
 TOWN OF SUMMERVILLE, SC
 DATE: 6-19-03

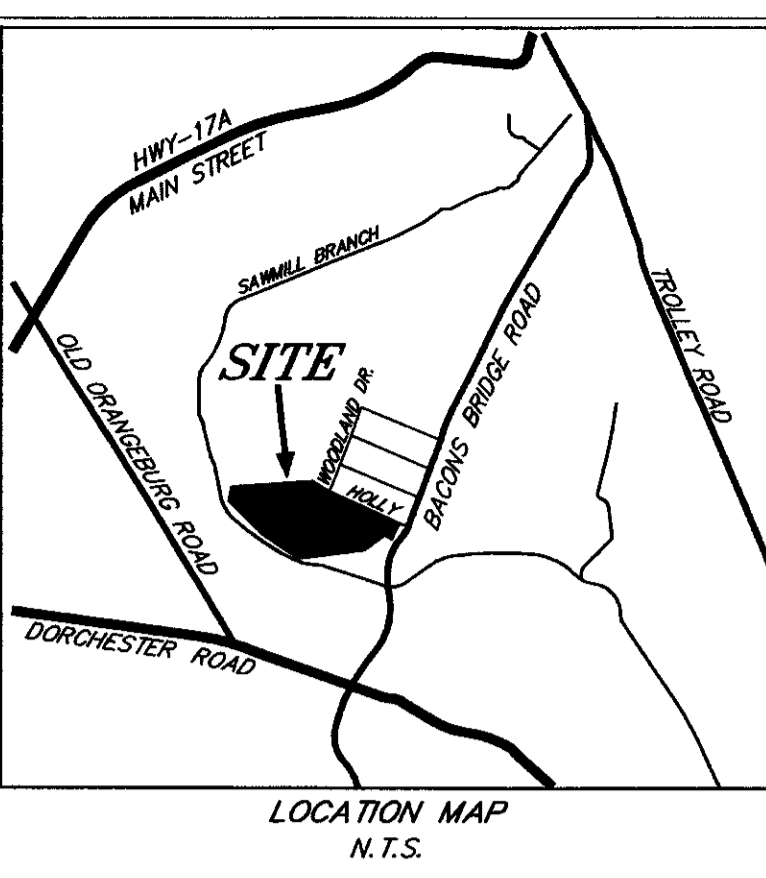
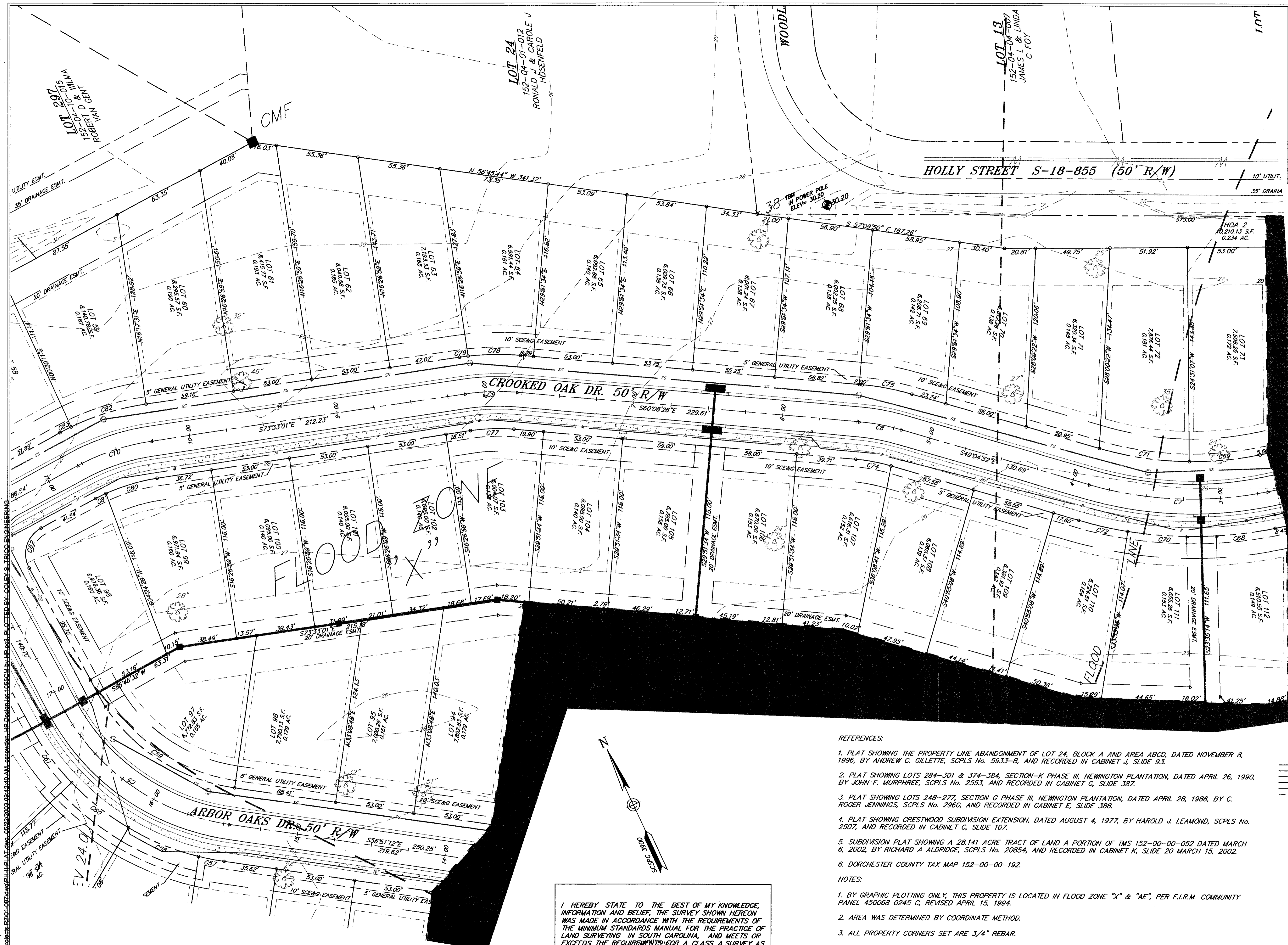
DESIGNED: MEL	DRAWN: MEL	CHECKED: MEC	APPROVED: MEC	SCALE: 1"=30'	DATE: 29 JANUARY 2002	PROJECT NO.: 01-087	SHEET 7 of 28
TITLE COVER SHEET PHASE II OF ARBOR OAKS SUBDIVISION LOCATED IN THE TOWN OF SUMMERVILLE DORCHESTER COUNTY, SOUTH CAROLINA							
REVISIONS NO. DATE REVISION LIST 1 04/23/03 2 5/22/03							

\Projects\trico\1 and Project R201_087\dwg\PHI-II.PLT.dwg, 06/05/2003 07:19:06 AM, mhamb, L1, TRICO ENGINEERING CONSULTANTS PLOTTED BY: M. LAMB



I:\Projects\Arbor Oaks\Projects_R2\01-087.dwg\PLAT.dwg_05/22/2003 09:41:36 AM. ssnawden_HP DesignJet 1055CM by HP ps3_PLOTTED BY COLEV.S. TRICO ENGINEERING

<p>DESIGNED : MEL DRAWN : MEL CHECKED : TFB APPROVED : TFB SCALE : 1" = 100' DATE : 29 JANUARY 2002 PROJECT NO : 07-087 SHEET 2 OF 29</p>	<p style="text-align: center;"> PALMETTO UTILITY LOCATION SERVICE Don't Dig! Before you call toll free 1-888-SCI-RUPS. A one call system for community and job safety. </p>						
<p> TRICO ENGINEERING CONSULTANTS, INC. 4425 Belle Oaks Drive North Charleston, South Carolina 29405 Phone: (843) 740-7700 Fax: (843) 740-7707 trico@tricoengineering.com Civil Engineering - Surveying - Landscape Architecture Land Planning - Wetland Consulting - GPS Services Visit us at http://www.tricoengineering.com </p>							
<p> TITLE OVERALL PLAN PHASE II OF ARBOR OAKS SUBDIVISION LOCATED IN THE TOWN OF SUMMERVILLE DORCHESTER COUNTY, SOUTH CAROLINA </p>							
<p> SOUTH CAROLINA TRICO ENGINEERING CONSULTANTS, INC. No. 000516 CERTIFICATE OF AUTHORITY </p>							
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;">NO.</th> <th style="width: 10%;">DATE</th> <th style="width: 85%;">REVISIONS</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">5/22/03</td> <td>ADDED NEW & EXISTING DRAINAGE EASEMENTS</td> </tr> </tbody> </table>		NO.	DATE	REVISIONS	1	5/22/03	ADDED NEW & EXISTING DRAINAGE EASEMENTS
NO.	DATE	REVISIONS					
1	5/22/03	ADDED NEW & EXISTING DRAINAGE EASEMENTS					



ADJACENT PROPERTIES

LOT	TMS	OWNER
12	152-04-04-006	RICHARD D. GARNELL
13	152-04-04-007	JAMES L. & LINDA C. FOY
14	152-04-04-008	MICHAEL L. & REBEKA B. COOK
15	152-04-04-009	JOHN W. & BRENDA B. GROOM
16	152-04-04-010	GREORY M. & VERONICA T. GIBBLE
17	152-04-04-011	JOHN L. & PATRICIA D. FENDEL
18	152-04-04-012	CARL A. & KIM S. BAILEY
19	152-04-04-013	GETTYE W. & BRANTON
20	152-04-04-014	RAMON C. & AMANDA R. ROBERTSON
21	152-04-04-015	GETTYE W. & BRANTON
22	152-04-04-016	GETTYE W. & BRANTON
23	152-04-04-017	FRANK L. & CAROLE J. WOODFIELD
24	152-04-04-018	GAVY G. & KIMBERLY S. COCCAME
25	152-04-04-019	W. MICHAEL & BONNIE C. FOMER
26	152-04-04-020	ROBERT A. & SUSAN L. GALLIST
27	152-04-04-021	FREDERICK A. & DONNA J. SHOREL
28	152-04-04-022	MARK S. & CYNTHIA S. LAUNCE
29	152-04-04-023	QUEENY & MARTHA K. LEBOLD
30	152-04-04-024	LOUIS L. & FRANCES D. GARDY
31	152-04-04-025	JOHN A. & TRINA B. FULLETON
32	152-04-04-026	LOUIS L. & FRANCES D. GARDY
33	152-04-04-027	LAMPSON B. & ELEANOR R. WHITE
34	152-04-04-028	KENNETH L. BALLARD
35	152-04-04-029	DAVID W. & SARAH H. BROWN
36	152-04-04-030	ROBERT D. & WELMA VAN GENT
37	152-04-04-031	BRYAN C. & VERONICA S. GRAMM

SITE SUMMARY

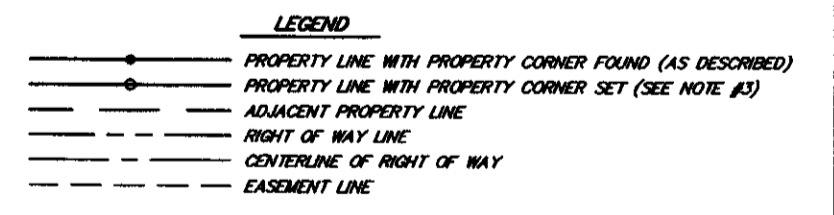
TOTAL JURISDICTIONAL WETLAND:	8.828 acres
TOTAL RIGHT OF WAY:	2.386 acres
TOTAL HOME OWNERS ASSOCIATION:	6.526 acres
TOTAL LOT ACREAGE:	10.401 acres
TOTAL SITE:	28.141 acres

LINE	BEARING	LENGTH
L1	N 64°53'35" W	116.64

I HEREBY STATE TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THE SURVEY SHOWN HEREON WAS MADE IN ACCORDANCE WITH THE REQUIREMENTS OF THE MINIMUM STANDARDS MANUAL FOR THE PRACTICE OF LAND SURVEYING IN SOUTH CAROLINA, AND MEETS OR EXCEEDS THE REQUIREMENTS FOR A CLASS A SURVEY AS SPECIFIED THEREIN.

RICHARD A. ALDRIDGE
REGISTERED PROFESSIONAL SURVEYOR
SOUTH CAROLINA
NO. 20854
P.L.S. 20854

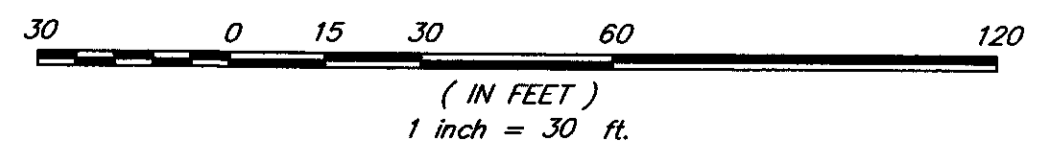
- REFERENCES:**
- PLAT SHOWING THE PROPERTY LINE ABANDONMENT OF LOT 24, BLOCK A AND AREA ABCD, DATED NOVEMBER 8, 1996, BY ANDREW C. GILLETTE, SCPLS No. 5933-B, AND RECORDED IN CABINET J, SLIDE 93.
 - PLAT SHOWING LOTS 284-301 & 374-384, SECTION-K PHASE III, NEWINGTON PLANTATION, DATED APRIL 26, 1990, BY JOHN F. MURPHREE, SCPLS No. 2553, AND RECORDED IN CABINET G, SLIDE 387.
 - PLAT SHOWING LOTS 248-277, SECTION G PHASE III, NEWINGTON PLANTATION, DATED APRIL 28, 1986, BY C. ROGER JENNINGS, SCPLS No. 2960, AND RECORDED IN CABINET E, SLIDE 388.
 - PLAT SHOWING CRESTWOOD SUBDIVISION EXTENSION, DATED AUGUST 4, 1977, BY HAROLD J. LEAMOND, SCPLS No. 2507, AND RECORDED IN CABINET C, SLIDE 107.
 - SUBDIVISION PLAT SHOWING A 28.141 ACRE TRACT OF LAND A PORTION OF TMS 152-00-00-052 DATED MARCH 6, 2002, BY RICHARD A. ALDRIDGE, SCPLS No. 20854, AND RECORDED IN CABINET K, SLIDE 20 MARCH 15, 2002.
 - DORCHESTER COUNTY TAX MAP 152-00-00-192.
- NOTES:**
- BY GRAPHIC PLOTTING ONLY, THIS PROPERTY IS LOCATED IN FLOOD ZONE "X" & "AE", PER F.I.R.M. COMMUNITY PANEL 450068 0245 C, REVISED APRIL 15, 1994.
 - AREA WAS DETERMINED BY COORDINATE METHOD.
 - ALL PROPERTY CORNERS SET ARE 3/4" REBAR.



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PRELIMINARY PLAT
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DORCHESTER COUNTY, SOUTH CAROLINA

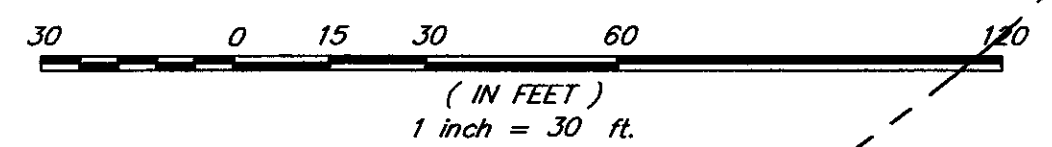
DESIGNED: MEL
DRAWN: MEL
CHECKED: RAA
APPROVED: RAA
SCALE: 1"=30'
DATE: 29 JANUARY 2002
PROJECT NO.: 07-087
SHEET 3 OF 28

NO. DATE
1 5/22/03
ADDED NEW & EXISTING DRAINAGE EASEMENTS
REVISIONS

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CURVE TABLE					
CURVE	RADIUS	LENGTH	TANGENT	CHORD	DELTA BEARING
C1	175.00	5.16	2.58	5.16	1°41'20"
C2	175.00	215.89	123.95	202.30	70°37'05"
C3	180.00	148.82	74.41	148.82	85°30'42"E
C4	150.00	36.51	18.26	36.51	21°33'01"E
C5	150.00	139.44	75.21	134.47	53°15'39"E
C6	175.00	36.26	18.19	36.19	11°52'16"
C7	250.00	120.79	61.60	119.62	27°40'59"
C8	150.00	28.95	14.52	28.91	11°03'34"
C9	150.00	35.11	17.63	35.03	13°24'36"
C10	150.00	52.47	26.51	52.20	20°02'31"
C11	150.00	49.81	25.14	49.58	19°01'31"
C12	348.86	121.42	61.33	120.81	19°56'29"
C13	110.00	54.92	28.05	54.36	28°36'31"
C14	110.00	17.04	8.54	17.02	8°52'25"
C15	415.67	108.77	55.20	108.45	15°07'50"
C16	500.00	67.83	33.87	67.58	7°44'58"
C17	170.00	123.08	64.58	120.41	41°28'56"
C18	20.00	31.42	20.00	28.28	90°00'00"
C19	20.00	31.42	20.00	28.28	90°00'00"
C20	20.00	30.83	19.42	27.86	88°18'36"
C21	25.00	6.79	3.42	6.77	15°34'05"
C22	25.00	14.23	7.32	14.04	32°37'18"
C23	50.00	57.63	32.49	54.49	66°02'04"
C24	50.00	36.00	18.92	35.23	41°15'24"
C25	50.00	43.20	23.05	41.87	49°30'25"
C26	50.00	42.92	22.89	41.62	49°11'15"
C27	50.00	61.43	35.27	57.64	70°23'39"
C28	25.00	10.46	5.31	10.38	23°57'50"
C29	25.00	10.57	5.37	10.49	24°13'33"
C30	20.00	27.30	16.25	25.23	78°11'50"
C31	200.00	37.76	18.93	37.70	10°48'58"
C32	200.00	46.95	23.58	46.84	13°26'58"
C33	150.00	114.20	60.03	111.46	43°37'19"
C34	200.00	55.12	27.74	54.95	15°47'31"
C35	200.00	54.64	27.49	54.48	15°39'17"
C36	150.00	75.10	38.35	74.32	28°41'06"
C37	200.00	10.83	5.42	10.83	3°06'08"
C38	20.00	17.45	9.33	16.90	49°58'41"
C39	50.00	28.07	14.42	27.70	32°09'53"
C40	50.00	120.28	128.68	93.30	137°49'48"
C41	25.00	39.27	25.00	35.36	90°00'00"
C42	50.00	17.45	8.81	17.35	19°59'41"
C43	20.00	17.45	8.81	16.90	49°59'41"
C44	185.00	13.54	6.77	13.53	4°11'33"
C45	185.00	53.65	27.01	53.46	16°36'55"
C46	135.00	101.14	53.08	98.79	42°55'33"
C47	185.00	50.75	25.54	50.59	15°43'05"
C48	185.00	48.17	24.22	48.04	14°55'11"
C49	185.00	56.83	28.64	56.60	17°35'58"
C50	135.00	101.14	53.08	98.79	42°55'33"

CURVE	RADIUS	LENGTH	TANGENT	CHORD	DELTA BEARING
C51	185.00	54.27	27.33	54.07	16°48'23"
C52	175.00	6.92	3.41	6.92	21°33'57"
C53	175.00	46.30	23.33	46.06	15°02'31"
C54	20.00	29.94	18.58	27.22	85°46'28"
C55	125.00	47.09	23.83	46.81	21°35'03"
C56	20.00	31.42	20.00	28.28	90°00'00"
C57	175.00	17.41	8.71	17.40	5°42'02"
C58	175.00	50.88	25.62	50.70	16°39'30"
C59	125.00	116.20	62.68	112.06	53°15'40"
C60	175.00	48.84	24.58	48.68	15°59'29"
C61	175.00	45.54	22.90	45.41	14°54'39"
C62	20.00	31.42	20.00	28.28	90°00'00"
C63	20.00	31.42	20.00	28.28	90°00'00"
C64	200.00	15.55	7.78	15.55	4°27'17"
C65	200.00	25.89	12.96	25.87	7°24'58"
C66	150.00	7.83	3.92	7.83	2°59'27"
C67	150.00	23.25	11.65	23.22	8°52'48"
C68	275.00	49.68	24.91	49.62	10°21'05"
C69	225.00	47.73	23.96	47.64	12°09'16"
C70	275.00	49.46	24.80	49.40	10°18'21"
C71	225.00	60.98	30.68	60.79	15°31'42"
C72	275.00	33.72	16.88	33.70	7°01'33"
C73	125.00	24.13	12.10	24.09	11°03'34"
C74	175.00	33.78	16.94	33.73	11°03'34"
C75	125.00	29.26	14.70	29.19	13°24'36"
C76	175.00	35.03	17.57	34.97	11°29'05"
C77	175.00	5.93	2.97	5.93	1°06'31"
C78	125.00	35.96	18.10	35.83	16°28'51"
C79	125.00	37.77	19.14	37.63	16°28'51"
C80	125.00	37.77	19.14	37.63	16°28'51"
C81	125.00	37.77	19.14	37.63	16°28'51"
C82	175.00	32.88	16.44	32.82	17°18'44"
C83	175.00	6.34	3.17	6.34	2°43'42"
C84	125.00	2.92	1.46	2.92	1°20'12"
C85	125.00	38.59	19.45	38.44	17°41'19"
C86	175.00	33.61	16.86	33.56	11°00'18"
C87	175.00	24.50	12.27	24.48	8°01'13"
C88	25.00	21.02	11.17	20.40	48°10'01"
C89	50.00	21.89	11.12	21.71	25°04'58"
C90	50.00	18.55	9.90	19.42	22°23'55"
C91	50.00	39.89	21.07	38.84	45°42'30"
C92	50.00	41.98	22.32	40.76	48°06'10"
C93	50.00	38.93	20.51	37.95	44°36'34"
C94	50.00	38.47	20.24	37.53	44°04'55"
C95	50.00	33.50	17.40	32.87	38°23'08"
C96	50.00	6.98	3.50	6.98	8°00'33"
C97	25.00	21.04	11.19	20.42	48°12'45"



**PRELIMINARY PLAT
PHASE II OF ARBOR OAKS SUBDIVISION
LOCATED IN
THE TOWN OF SUMMERVILLE
DORCHESTER COUNTY, SOUTH CAROLINA**

4425 Belle Oaks Drive
North Charleston, SC 29405
Phone: (843) 740-2707
Fax: (843) 740-2707
www.tricoengineering.com

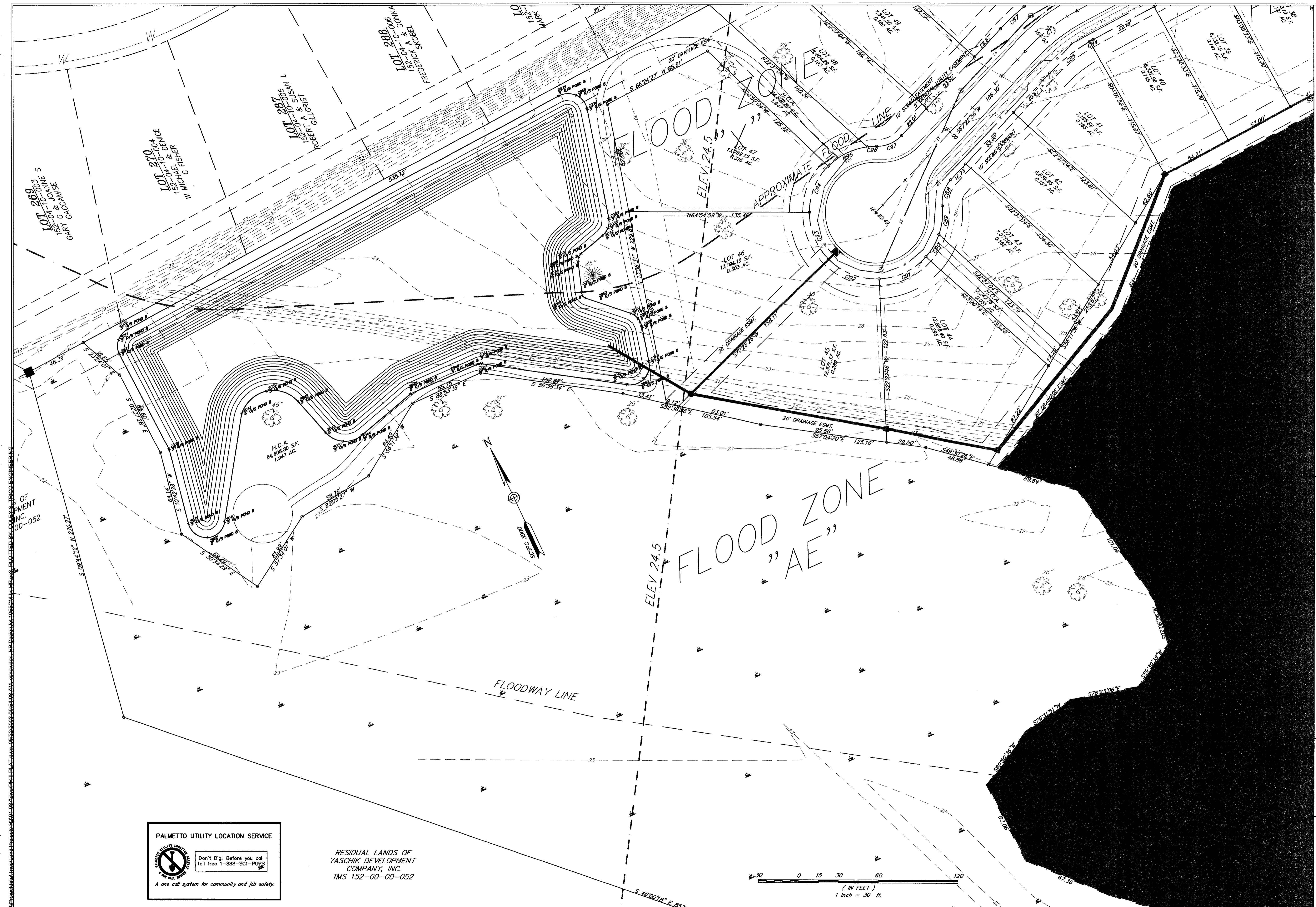
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Civil Engineering - Surveying - Landscape Architecture
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Don't Dig! Before you call
toll free 1-888-SCI-PUPS

A one call system for community and job safety.

DESIGNED: MEL
 DRAWN: MEL
 CHECKED: RAA
 APPROVED: RAA
 SCALE: 1"=30'
 DATE: 29 JANUARY 2002
 PROJECT NO.: 01-087
 SHEET 4 OF 28



PROJECT: 152-00-00-052
 DATE: 01/08/02
 TIME: 10:00 AM
 DRAWN BY: M.L.
 CHECKED BY: R.A.A.
 APPROVED BY: R.A.A.
 DATE: 01/08/02
 SCALE: 1"=30'
 PROJECT NO.: 152-00-00-052
 SHEET: 5 OF 28

PALMETTO UTILITY LOCATION SERVICE

Don't Dig! Before you call, toll free 1-888-3C1-PUSS.

A one call system for community and job safety.

RESIDUAL LANDS OF
 YASCHIK DEVELOPMENT
 COMPANY, INC.
 TMS 152-00-00-052

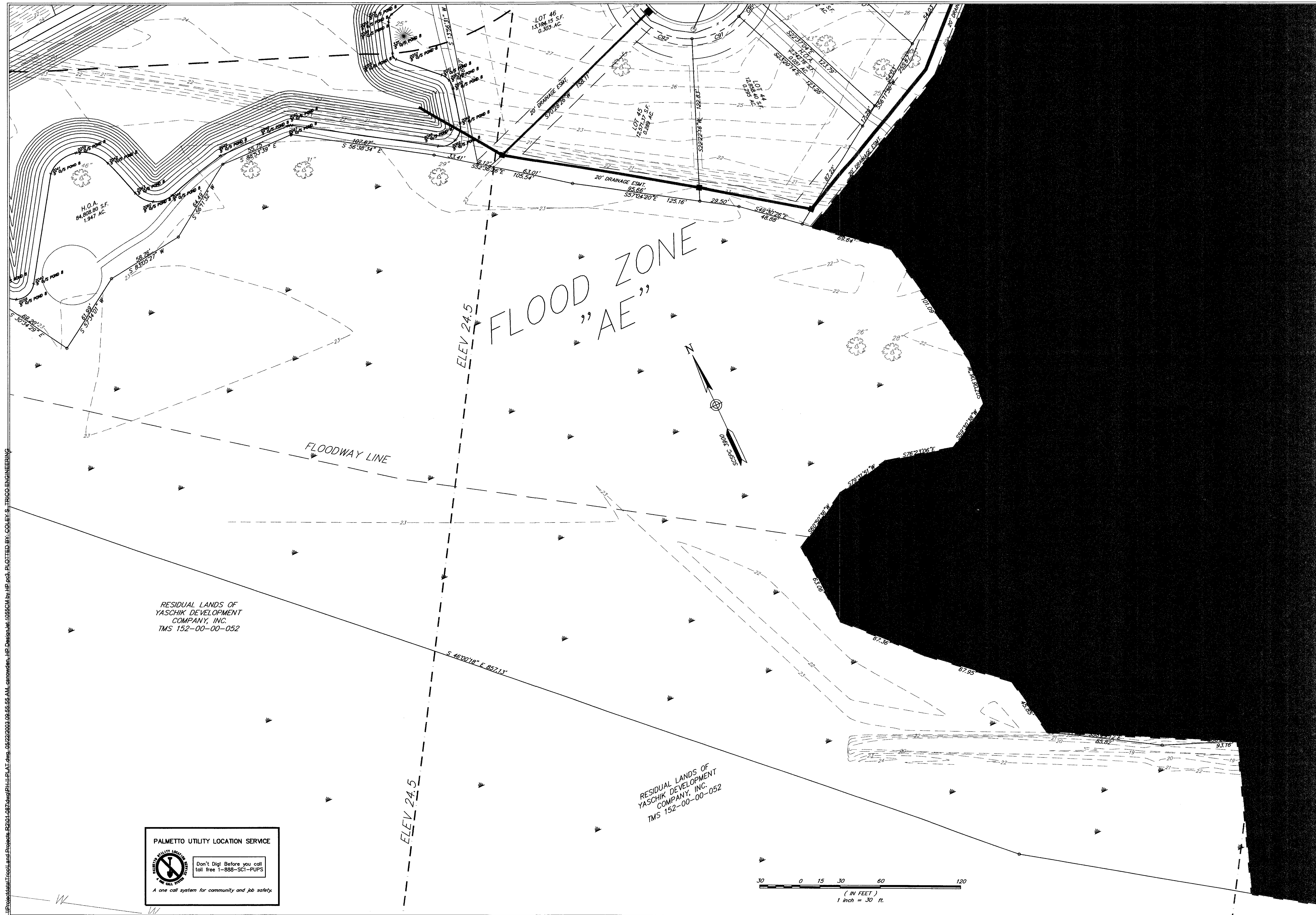
TRICO ENGINEERING CONSULTANTS, INC.
 4425 Belle Oaks Drive
 South Carolina, 29405
 Phone: (843) 740-7700
 Fax: (843) 740-7707
 info@tricoengineering.com
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PROFESSIONAL ENGINEER
 RICHARD A. RICHARDS
 No. 2884

TITLE
 PRELIMINARY PLAT
 PHASE II OF ARBOR OAKS SUBDIVISION
 LOCATED IN
 THE TOWN OF SUMMERSVILLE
 DORCHESTER COUNTY, SOUTH CAROLINA

NO.	DATE	ADDED NEW & EXISTING DRAINAGE EASEMENTS: HOA TEXT	REVISIONS
1	5/22/03		



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DESIGNED: MEL
 DRAWN: MEL
 CHECKED: RAA
 APPROVED: RAA
 SCALE: 1" = 30'
 DATE: 29 JANUARY 2002
 PROJECT NO.: 01-087
 SHEET 6 OF 28

SOUTH CAROLINA
 REGISTERED PROFESSIONAL ENGINEER
 No. 2084
 RICHARD A. COLE

SOUTH CAROLINA
 ENGINEERING CONSULTANTS
 No. 00016
 CERTIFICATE OF AUTHORITY

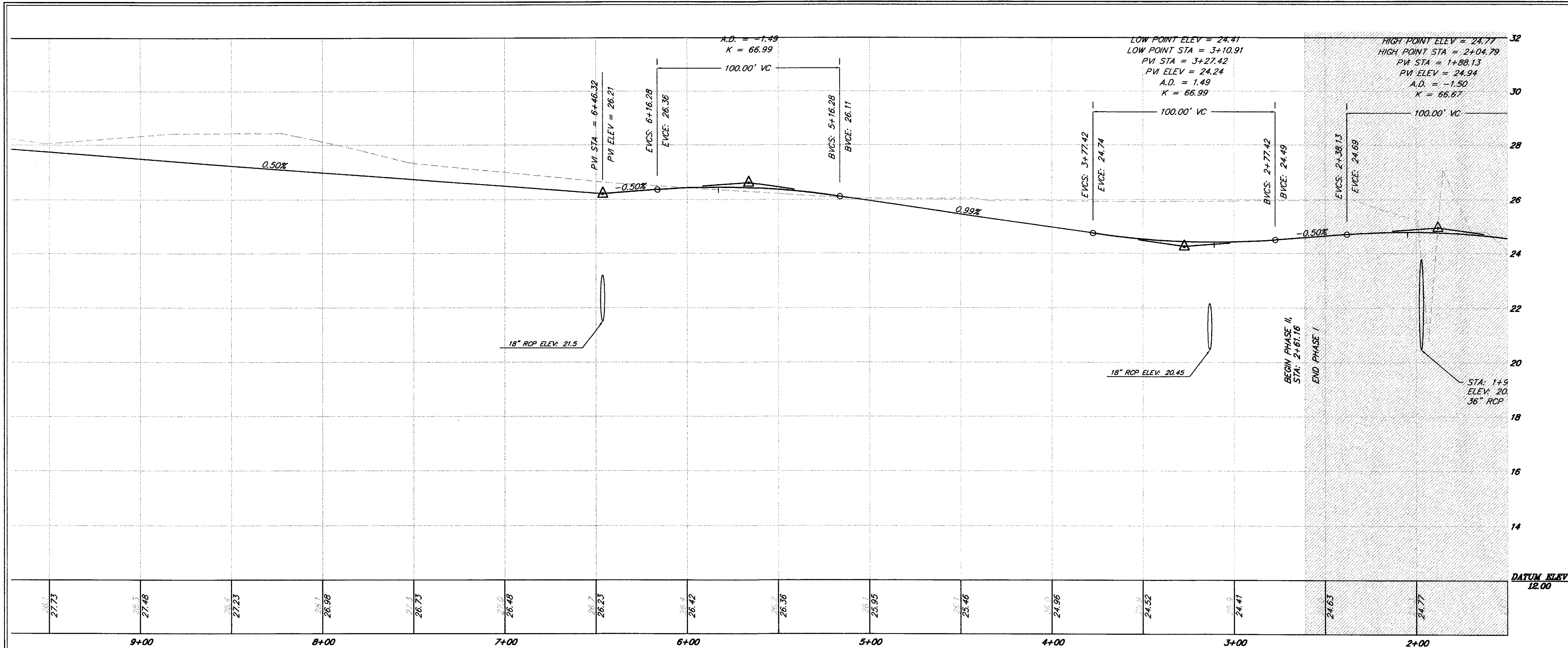
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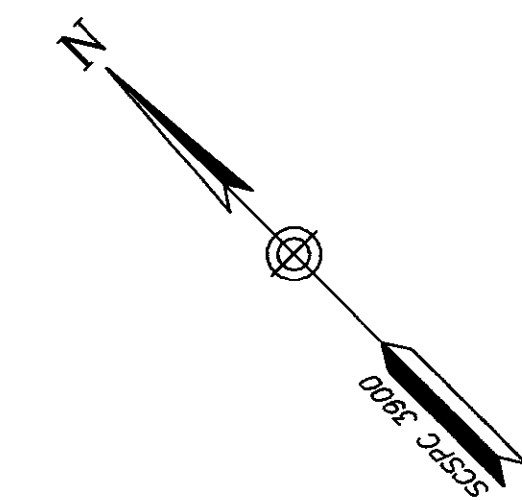
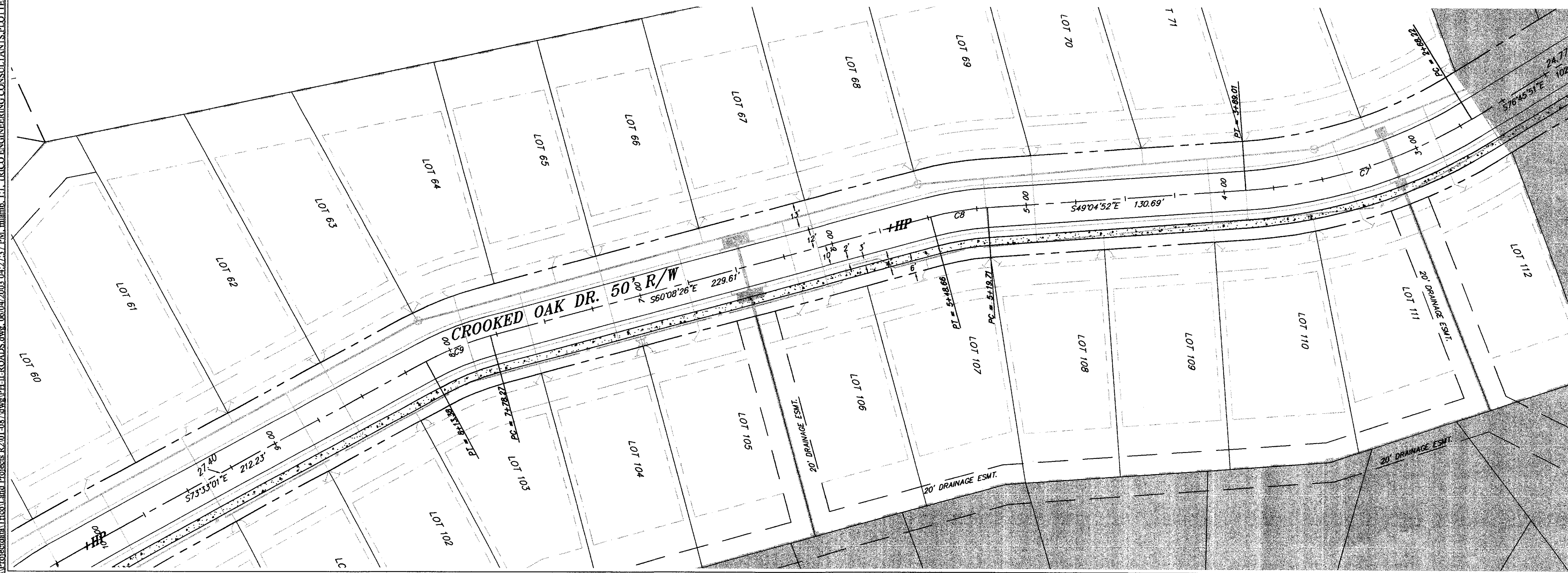
TITLE
PRELIMINARY PLAT
PHASE II OF ARBOR OAKS SUBDIVISION
LOCATED IN
THE TOWN OF SUMMERVILLE
DORCHESTER COUNTY, SOUTH CAROLINA

NO.	DATE	REVISIONS
1	5/22/03	ADDED FLOOD ZONE AND HIGH TEXT

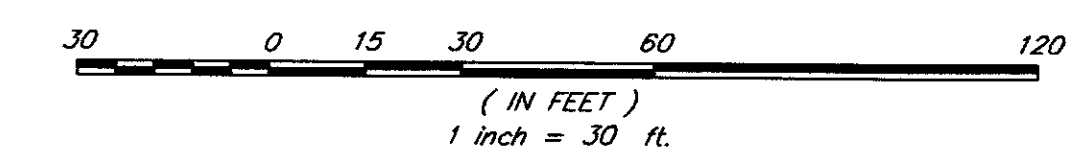
Project: Palmetto and Projects 82101.087.dwg: PHJ:ROADS.dwg, 06/04/2003 04:22:37 PM, amlmb, I.I. TRICO ENGINEERING CONSULTANTS PLOTTED BY: M. LAMB



CROOKED OAK DR.
HORIZONTAL SCALE: 1"=30'
VERTICAL SCALE: 1"=2'



CT	250.00	120.79	61.60	119.62	27°40'59"	S82°55'21"E
CB	150.00	28.95	14.52	28.91	11°33'54"	S54°36'39"E
CS	150.00	35.11	17.63	35.03	13°24'36"	S86°30'43"E



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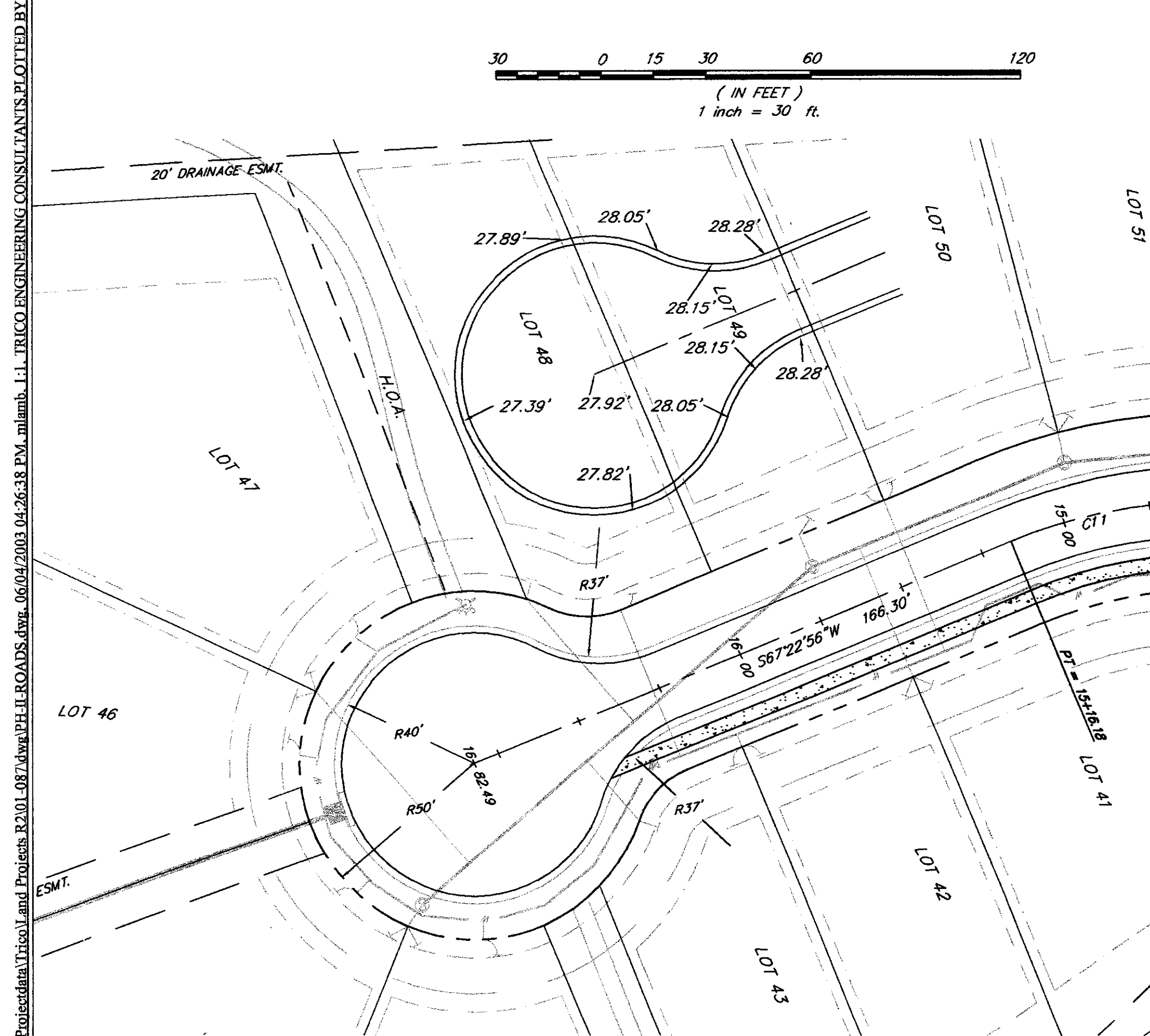
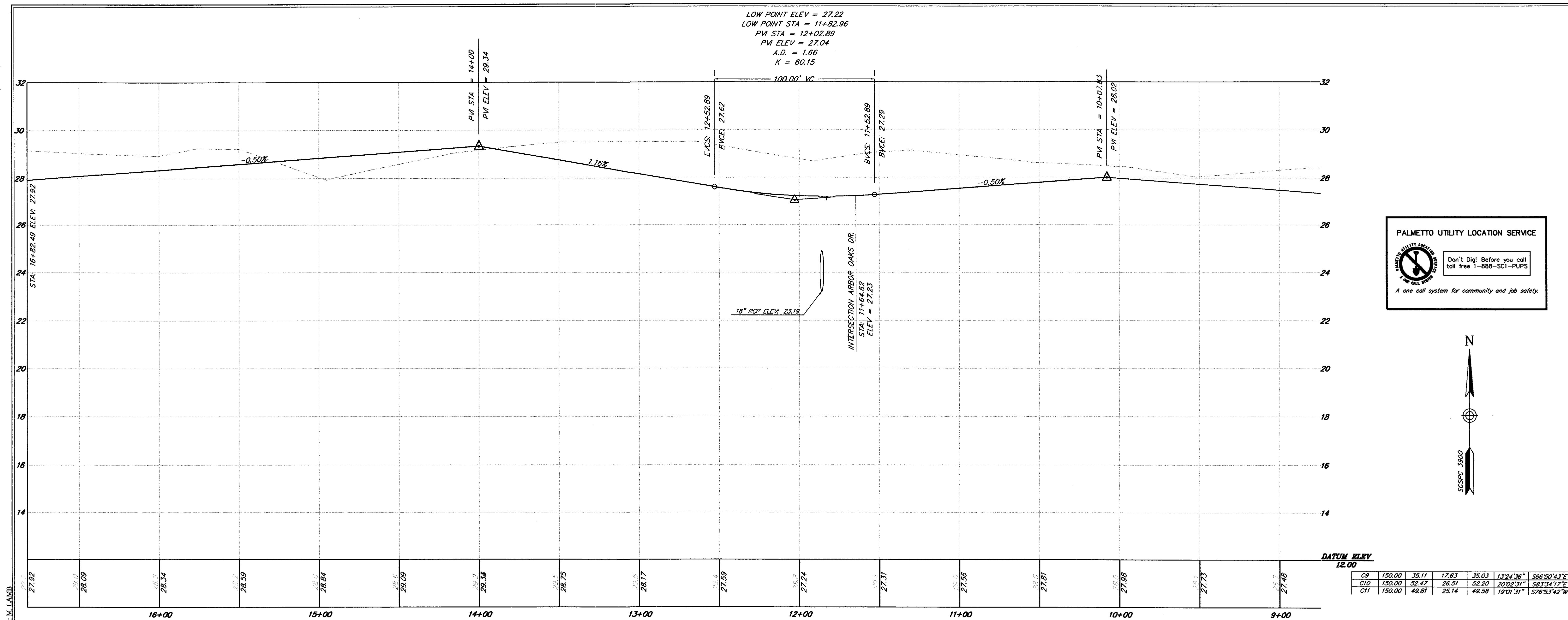
TRICO ENGINEERING CONSULTANTS, INC.
4425 Balls Bluffs Drive
North Charleston, SC 29405
Phone: (843) 246-2707
Fax: (843) 246-2707
www.tricoengineering.com

ENGINEERING CONSULTANTS, INC.
No. 000516
CERTIFICATE OF AN INDEPENDENT BOARD OF ENGINEERS

DESIGNED: MEL
DRAWN: MEL
CHECKED: TFB
APPROVED: TFB
SCALE: 1"=30'
DATE: 29 JANUARY 2002
PROJECT NO.: 01-087
SHEET 7 OF 28

TITLE
ROADWAY PLANS
PHASE II OF ARBOR OAKS SUBDIVISION
LOCATED IN
THE TOWN OF SUMMERSVILLE
DORCHESTER COUNTY, SOUTH CAROLINA

NO.	DATE	REVISIONS
2	6/4/03	RAISED CROOKED OAKS DR. FROM STA. 3+00-14+00
1	04/03/03	REVISED CURVE TABLE



CROOKED OAK DR.
 HORIZONTAL SCALE: 1"=30'
 VERTICAL SCALE: 1"=2'



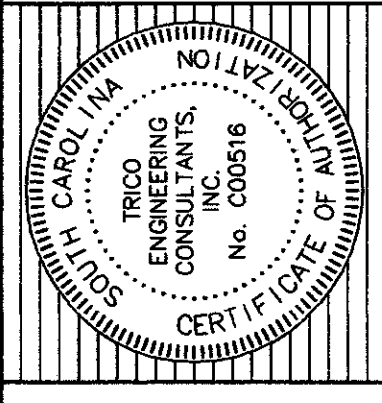
DATUM ELEV 12.00

C9	150.00	35.11	17.63	38.03	1324.96"	S86°50'43"E
C10	150.00	52.47	26.51	52.20	2002.31"	S81°34'17"E
C11	150.00	49.81	25.14	49.58	1901.31"	S76°53'42"W

Plotted: 06/04/2003 04:26:38 PM. mimb. l.l. TRICO ENGINEERING CONSULTANTS PLOTTED BY: M. LAMB

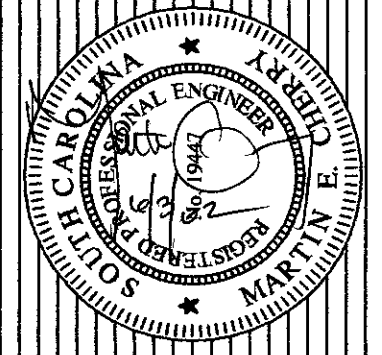
NO.	DATE	REVISIONS
3	6/4/03	RAISED CROOKED OAKS DR. 1' FROM STA. 3+00-14+00
2	5/22/03	ADDED SLOPE TEXT TO PROFILE
1	04/03/03	REVISED CURVE TABLE

TITLE
 ROADWAY PLANS
 PHASE II OF ARBOR OAKS SUBDIVISION
 LOCATED IN
 THE TOWN OF SUMMERSVILLE
 DORCHESTER COUNTY, SOUTH CAROLINA



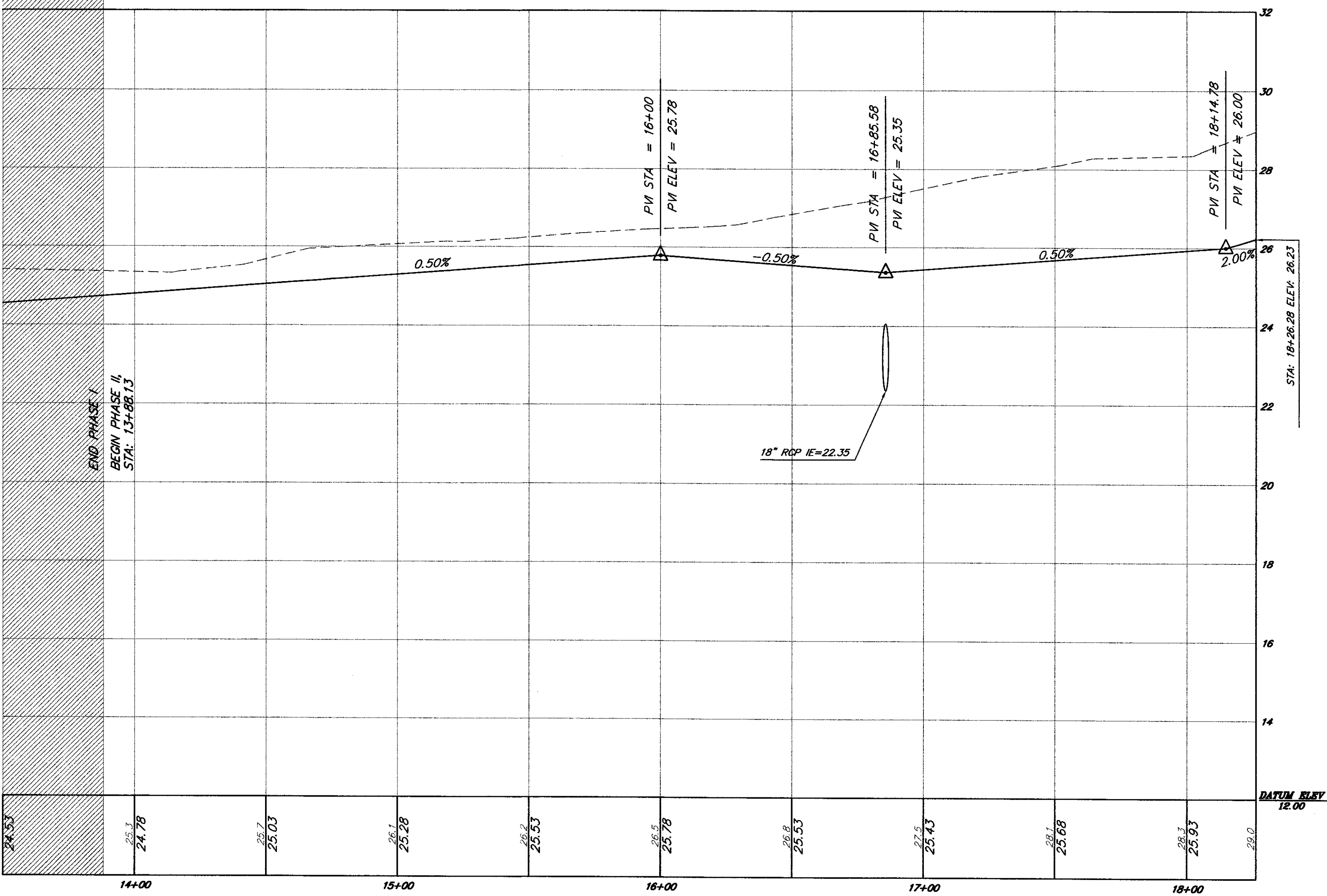
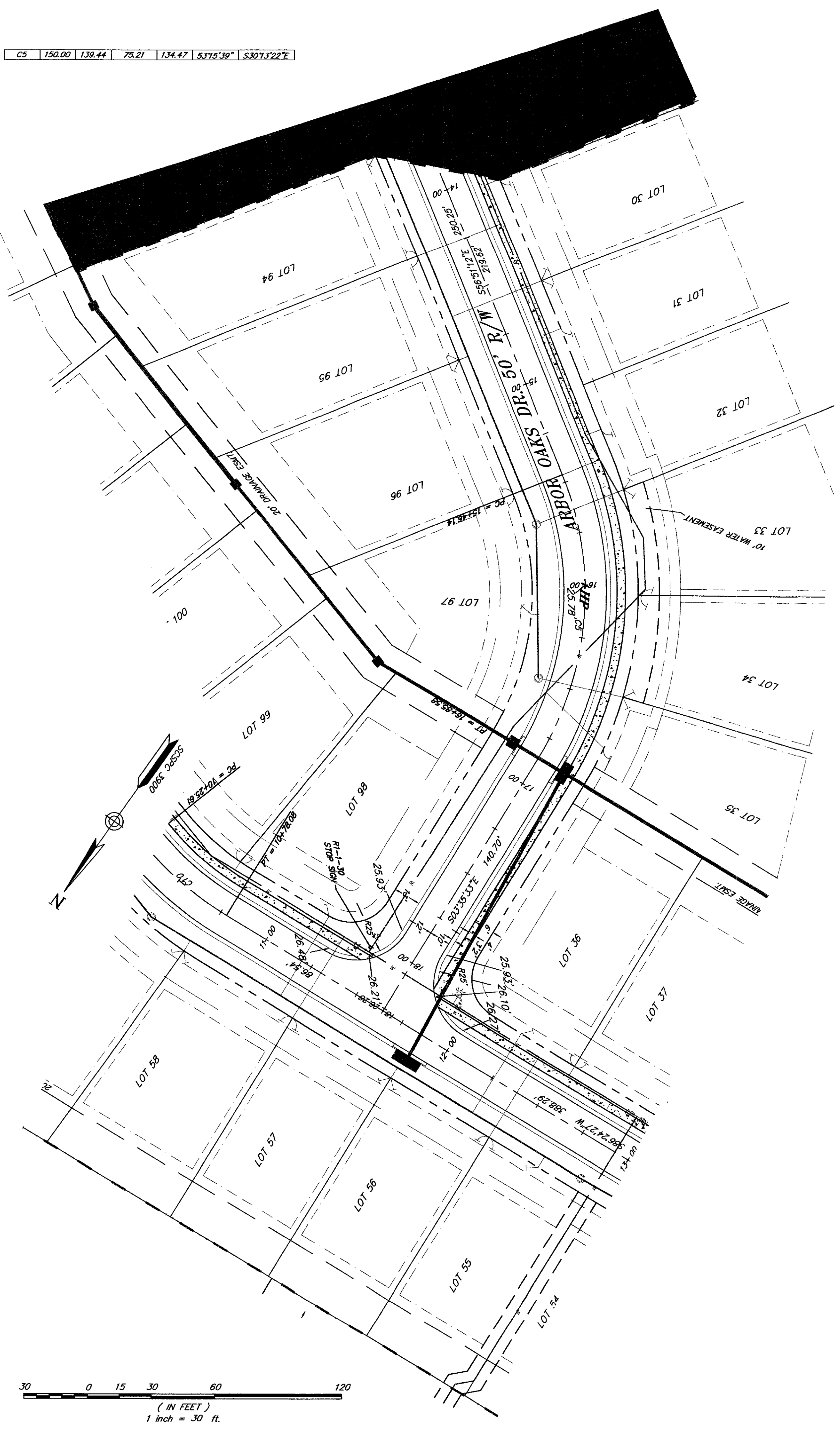
TRICO
 ENGINEERING CONSULTANTS, INC.
 4428 Belle Oaks Drive
 North Charleston, SC 29405
 South Carolina License No. 5816
 Phone: (843) 740-2700
 Fax: (843) 740-2707
 info@tricoengineering.com

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DESIGNED: MEL
 DRAWN: MEL
 CHECKED: TFB
 APPROVED: TFB
 SCALE: 1"=30'
 DATE: 29 JANUARY 2002
 PROJECT NO.: 01-087
 SHEET 8 OF 28

C5 150.00 139.44 75.21 134.47 5375.39° S3073'22"E



ARBOR OAKS DR.
HORIZONTAL SCALE: 1"=30'
VERTICAL SCALE: 1"=2'

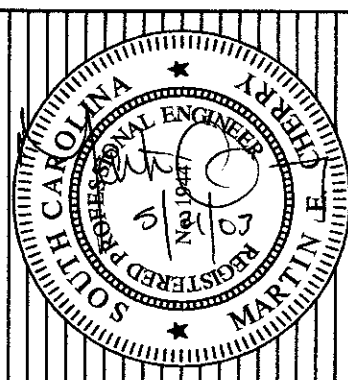
30 0 15 30 60 120
(IN FEET)
1 inch = 30 ft.

PALMETTO UTILITY LOCATION SERVICE

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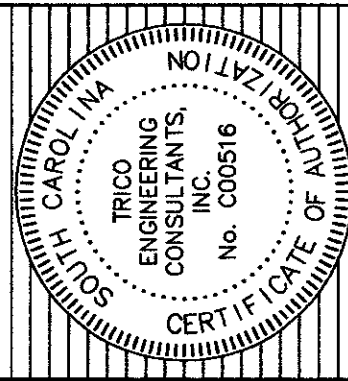
A one call system for community and job safety.

DESIGNED: MEL
DRAWN: MEL
CHECKED: TFB
APPROVED: TFB
SCALE: 1"=30'
DATE: 29 JANUARY 2002
PROJECT NO.: 01-087
SHEET 9 OF 29



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4425 Belle Oaks Drive
South Charleston, SC 29405
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info@tricoengineering.com

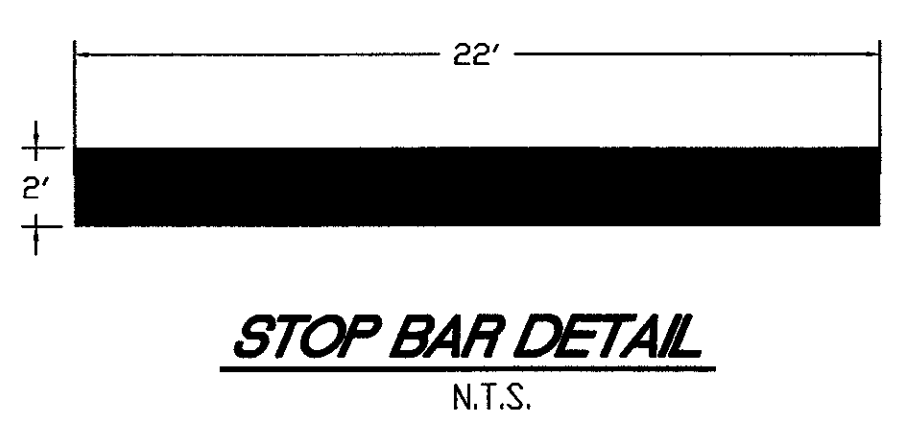
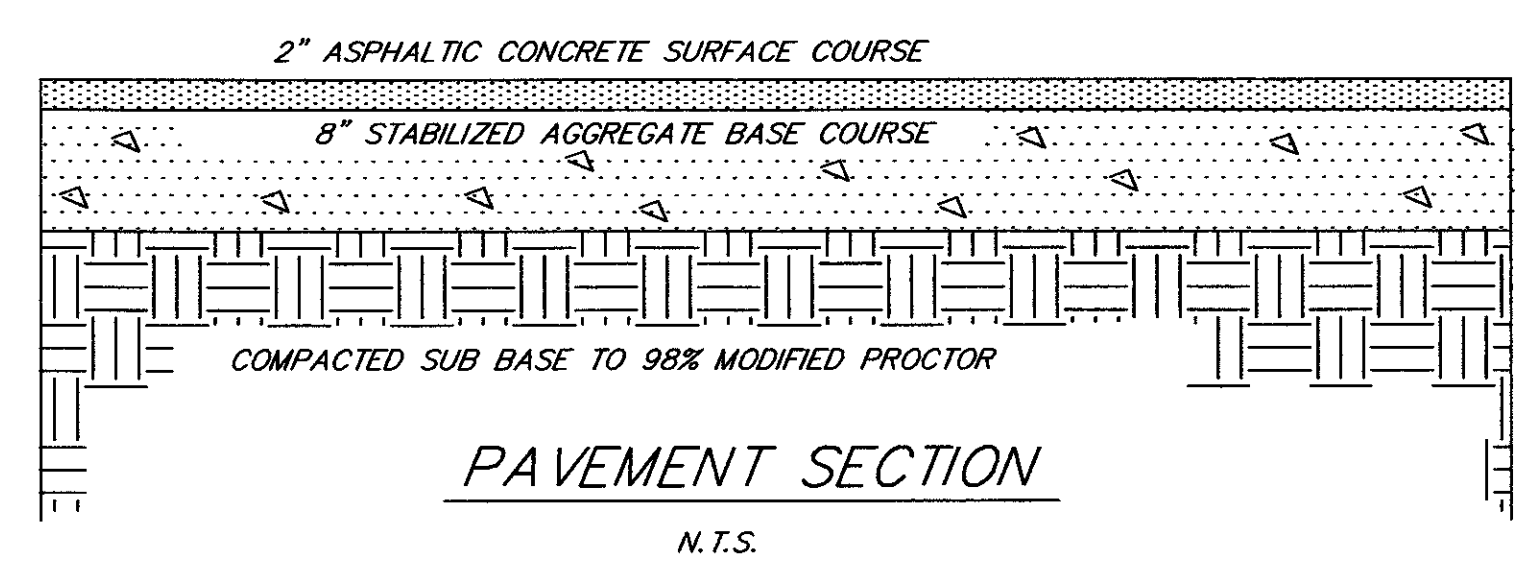
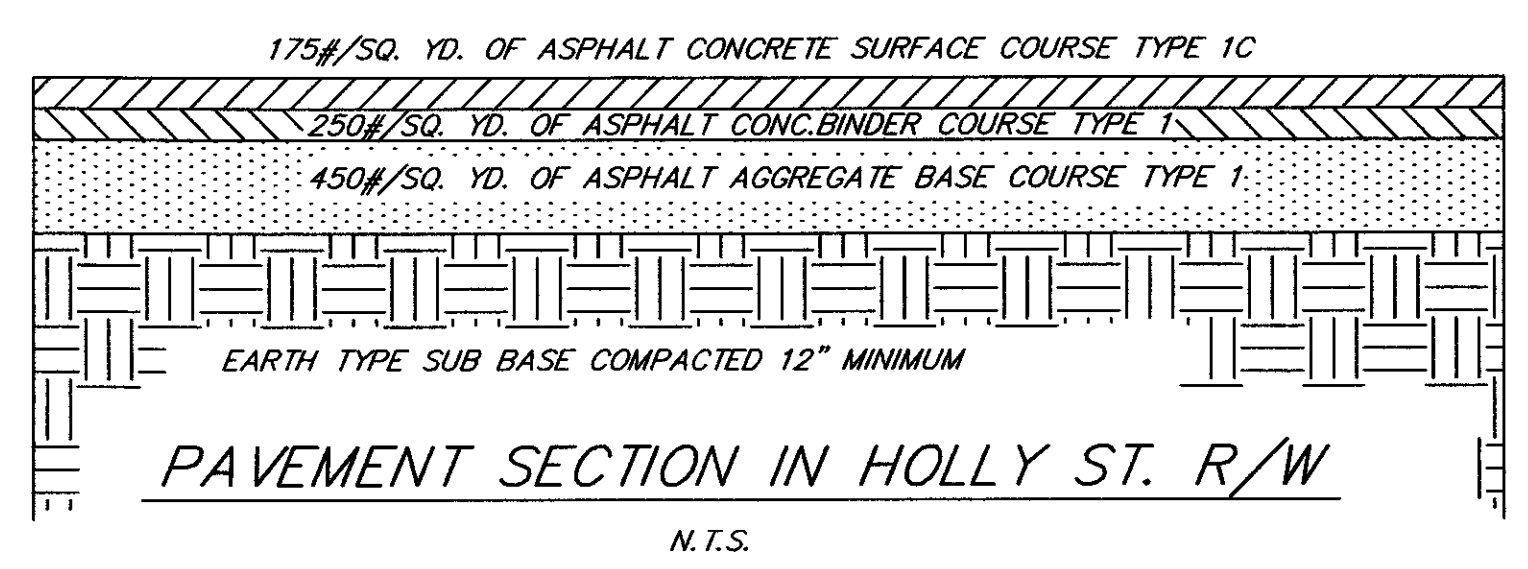
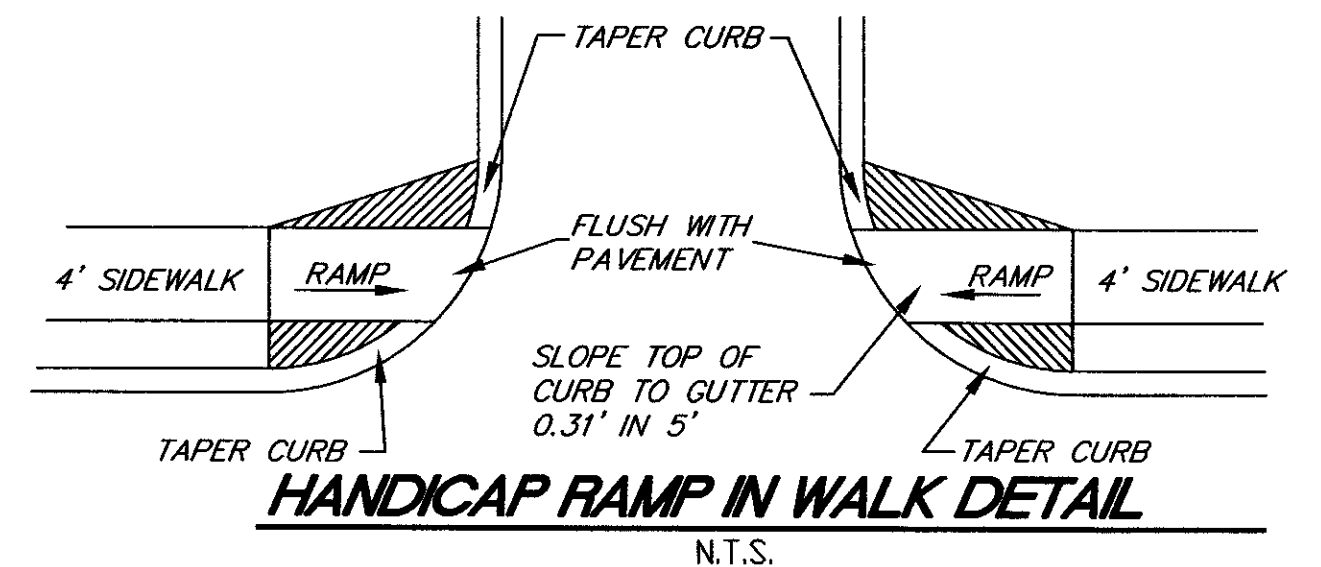
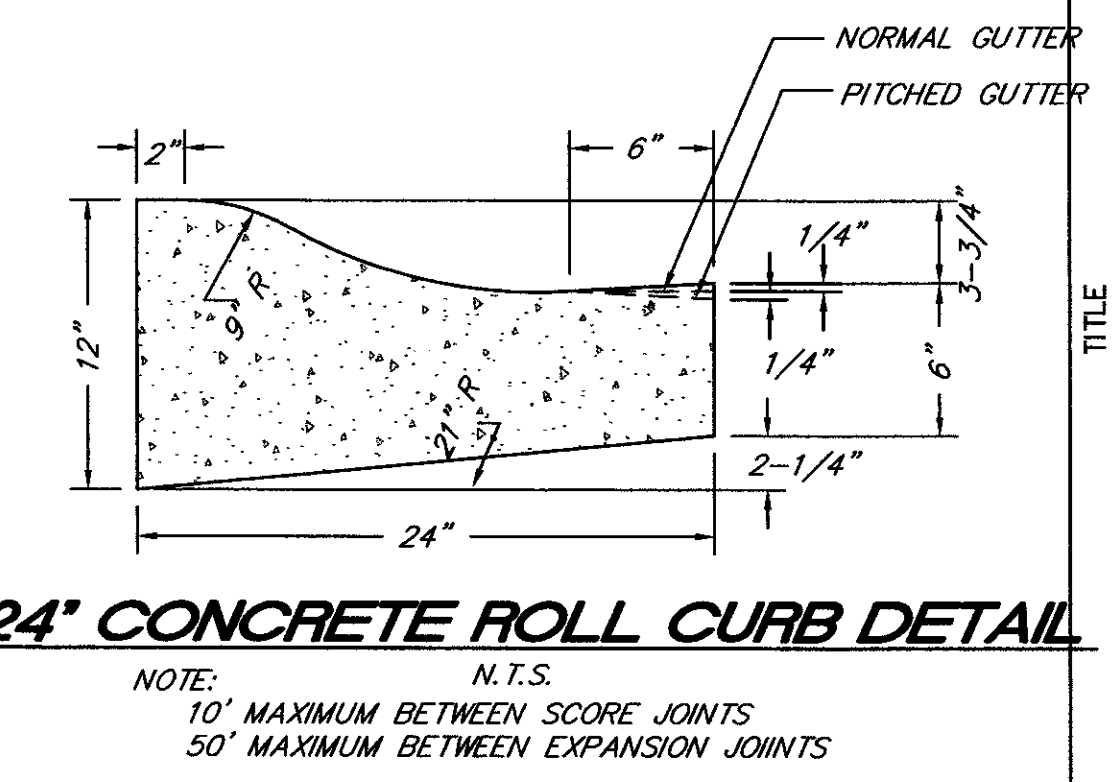
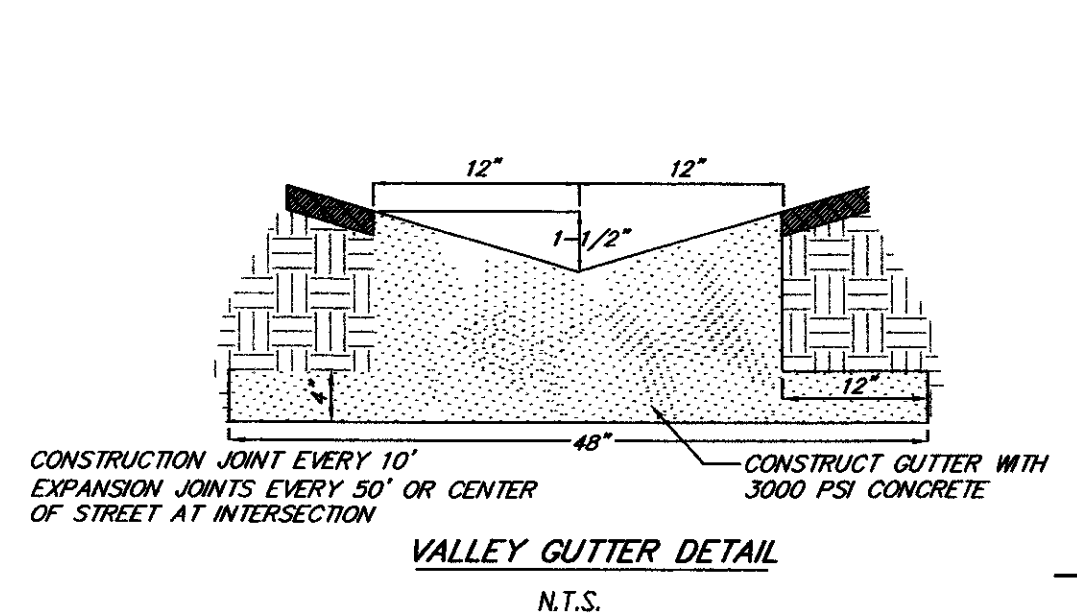
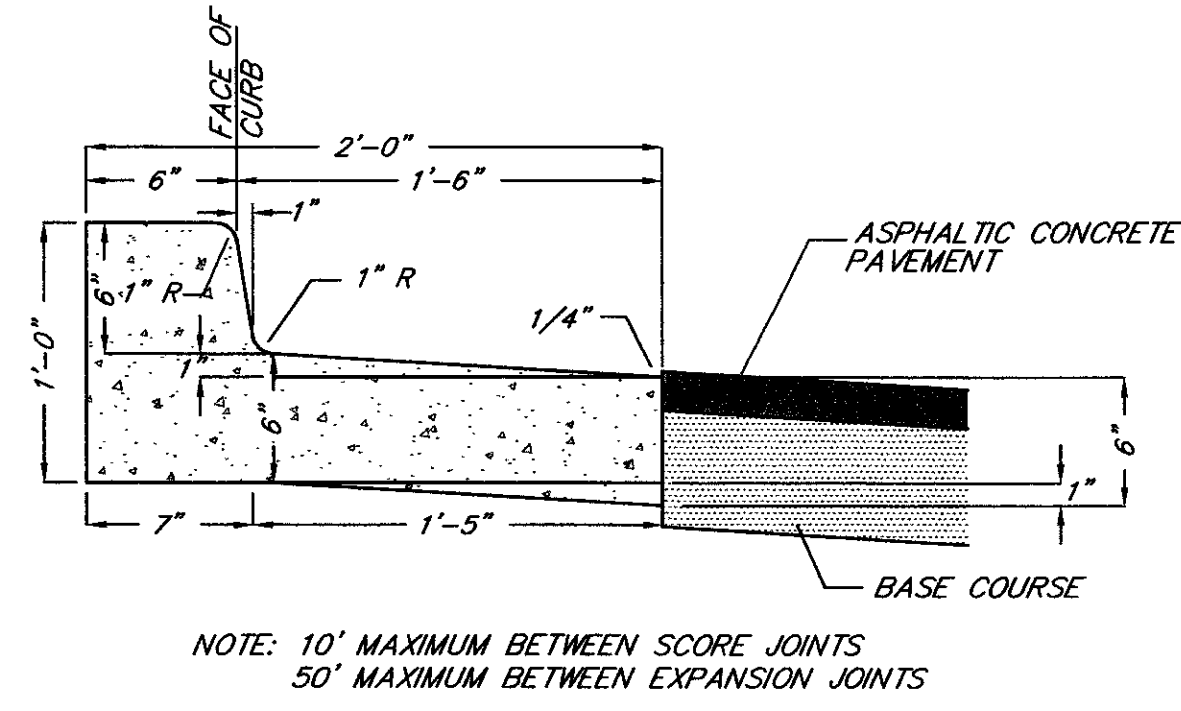
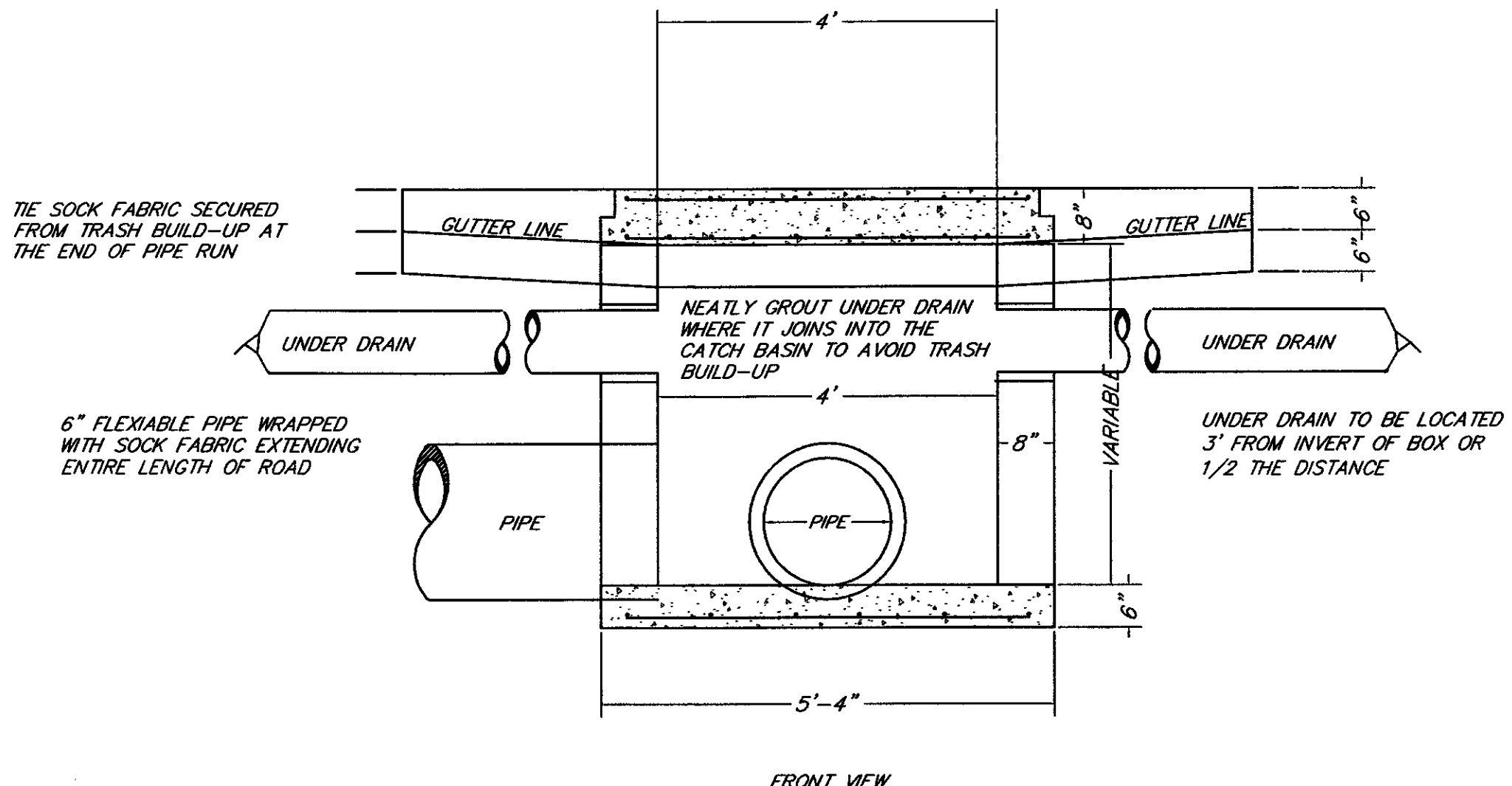
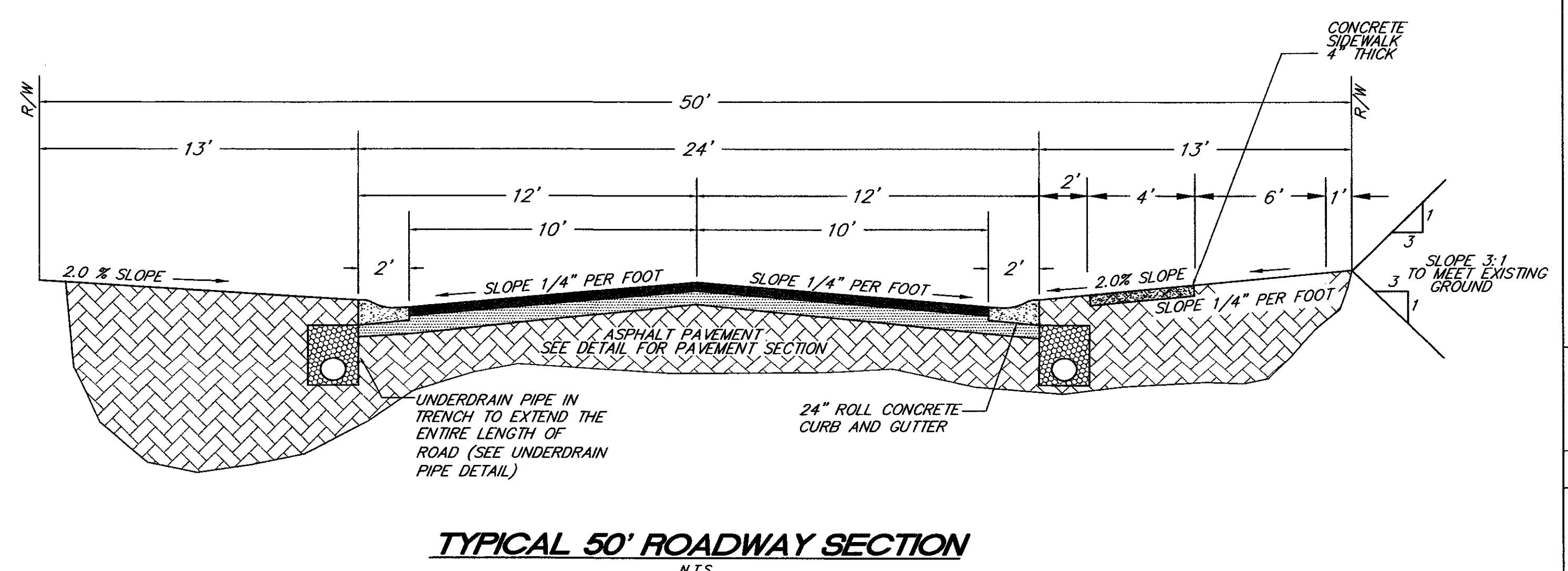
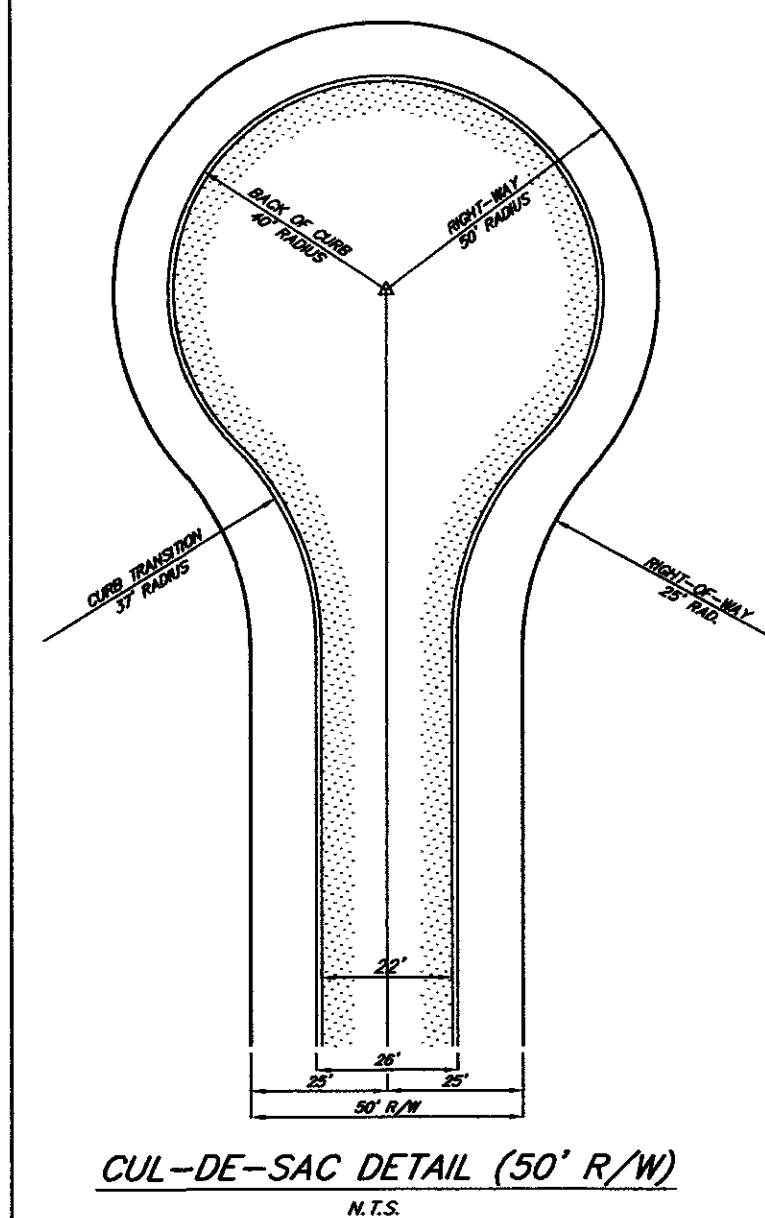
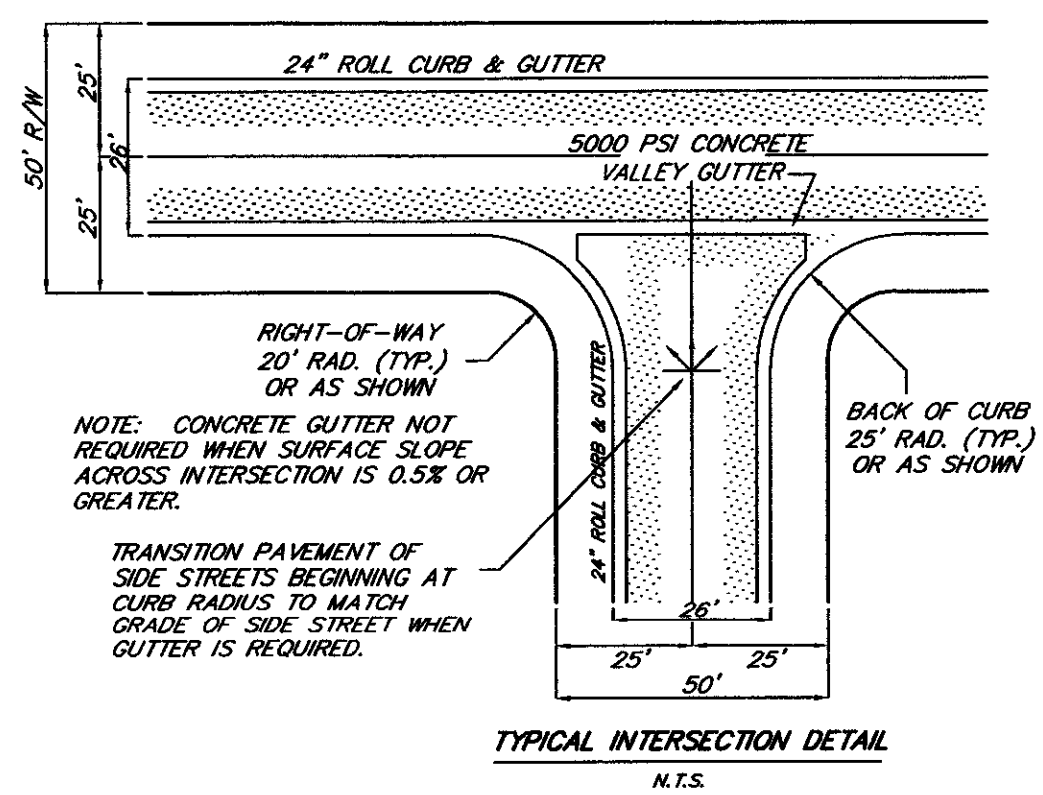
Civil Engineering - Surveying - Landscape Architecture
Land Planning - Wetland Consulting - GIS Services
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TITLE
ROADWAY PLANS
PHASE II OF ARBOR OAKS SUBDIVISION
LOCATED IN
THE TOWN OF SUMMERVILLE
DORCHESTER COUNTY, SOUTH CAROLINA

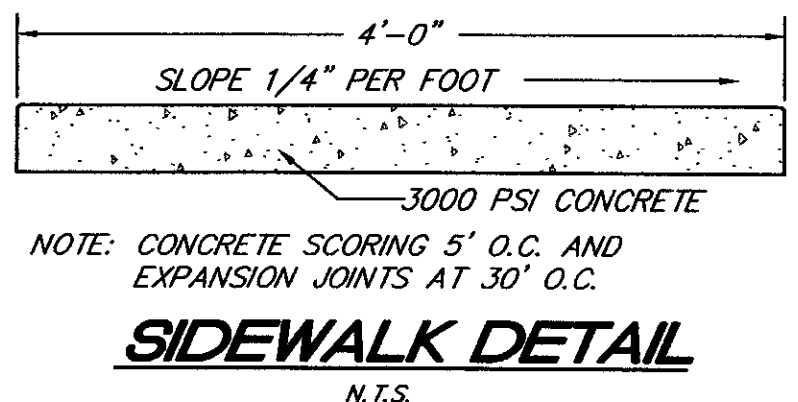
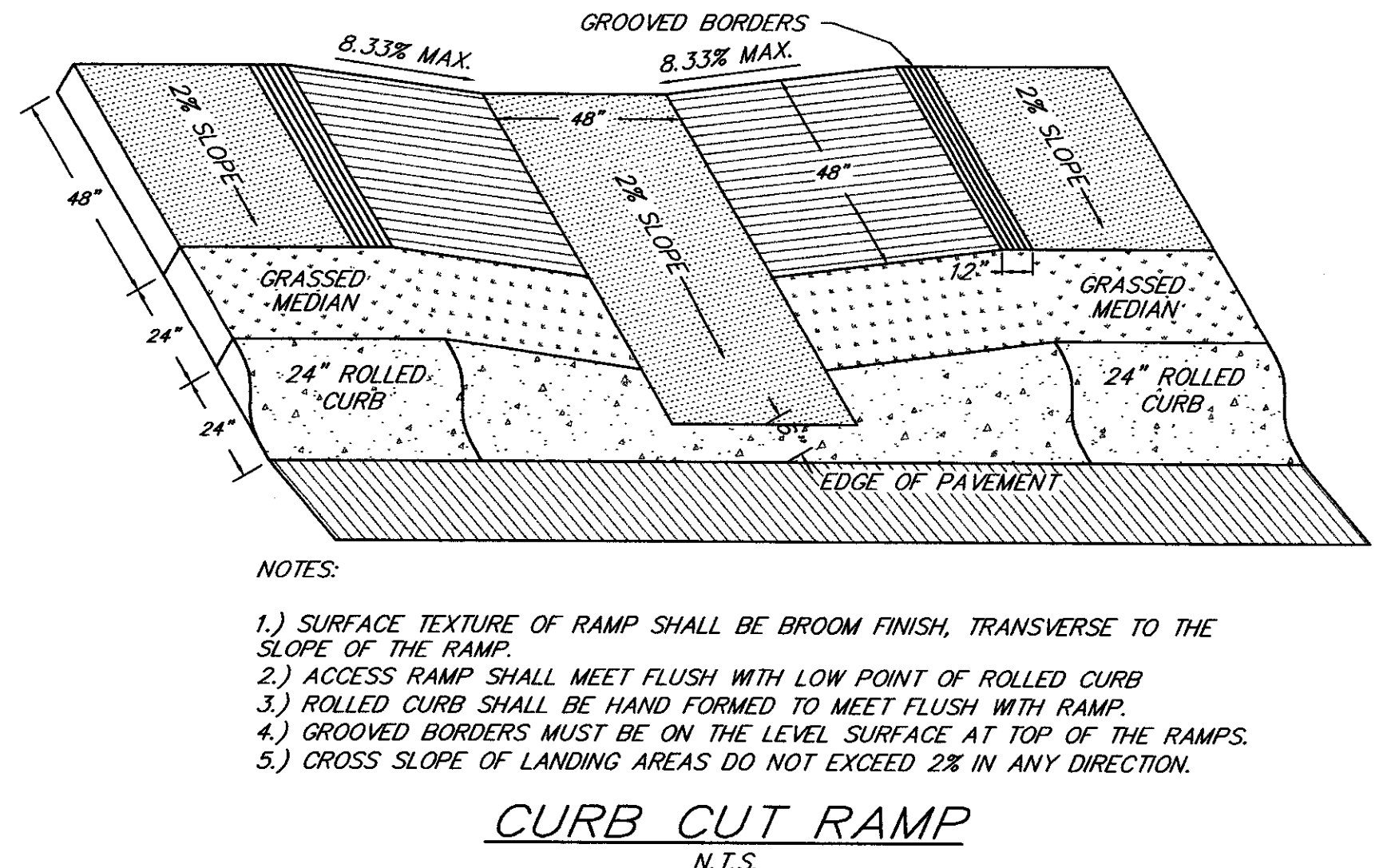
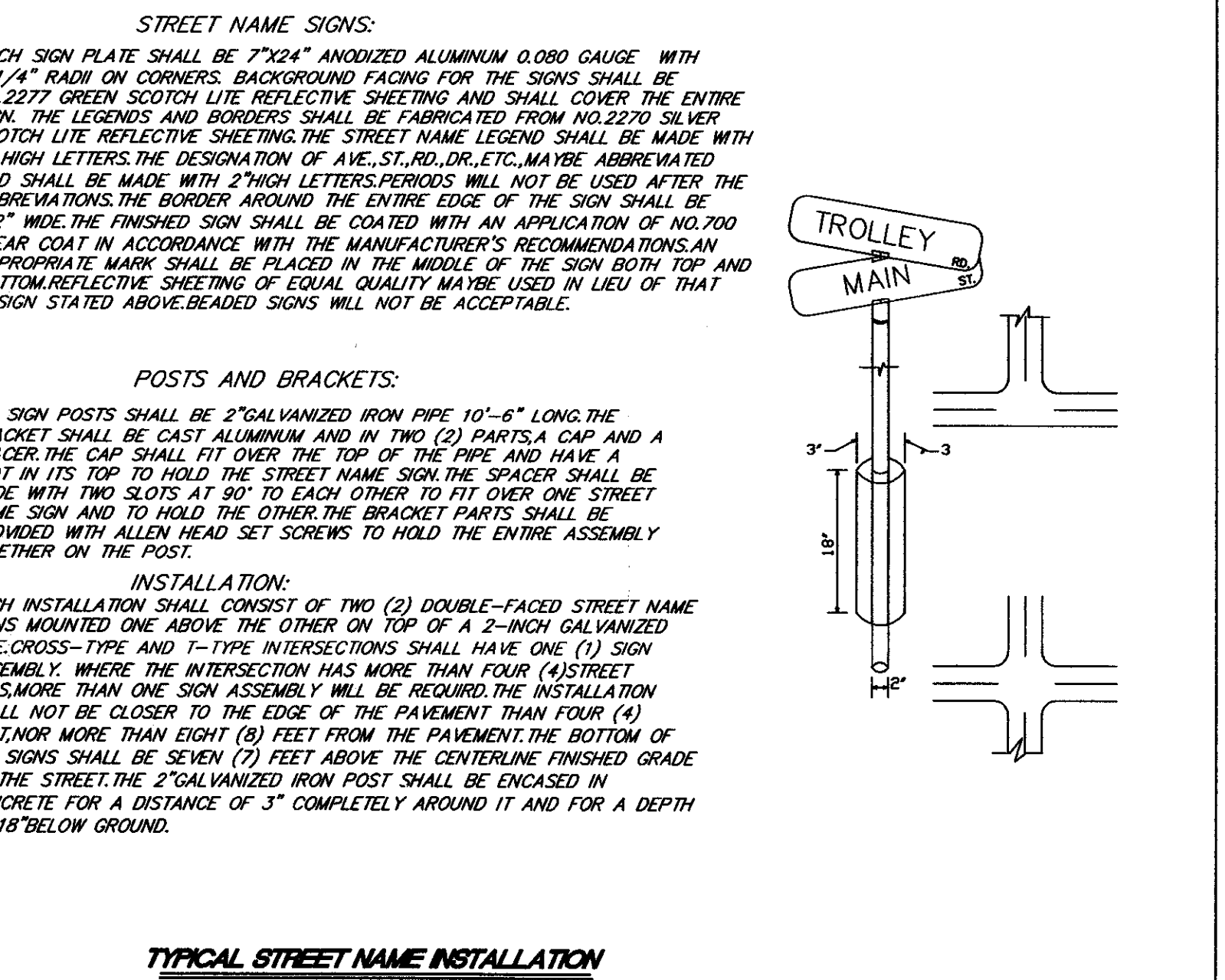
NO.	DATE	REVISIONS
2	5/22/03	ADDED SLOPE TEXT TO PROFILE
1	04/23/03	REVISED CURVE TABLE

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CONSTRUCTION NOTES:

1. TOPOGRAPHICAL INFORMATION BY TRICO ENGINEERING CONSULTANTS.
2. THE LOCATION OF EXISTING UTILITIES ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE LOCATIONS, SIZES, AND ELEVATIONS PRIOR TO BEGINNING WORK.
3. SHOULD THE CONTRACTOR FIND ANY DISCREPANCIES ON THE DRAWINGS OR IN THE FIELD PRIOR TO BEGINNING WORK OR DURING CONSTRUCTION, HE/SHE SHALL IMMEDIATELY NOTIFY THE ENGINEER.
4. CONTRACTOR SHALL VERIFY THAT OWNER OR ENGINEER HAS OBTAINED ALL NECESSARY PERMITS FOR CONSTRUCTION PRIOR TO THE START OF THE PROJECT.
5. EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO BEGINNING OF ANY WORK.
6. UNIFORMLY GRADE TOP SOIL AT ADJACENT PROPERTY LINES TO MEET EXISTING GRADE AND TO PROVIDE POSITIVE DRAINAGE. ALL AREAS DISTURBED SHALL BE SEEDED AND MULCHED IN ACCORDANCE WITH SCDOT ITEM 810.
7. CONTRACTOR SHALL SAW CUT EXISTING PAVEMENT EDGES PRIOR TO CONSTRUCTION OF NEW SIDEWALKS AND REPAIR ALL DAMAGE TO EXISTING PAVEMENT AT ENTRANCE WAYS. CONTRACTOR SHALL CONSTRUCT ENTRANCE WAYS IN ACCORDANCE WITH THE REQUIREMENTS AND CONDITIONS OF THE S.C. HIGHWAY DEPT. SPECIFICATIONS.
8. CONTRACTOR SHALL REPAIR ALL DAMAGE TO EXISTING PAVEMENT AND CURBING AT ENTRANCE WAYS IN ACCORDANCE WITH THE REQUIREMENTS AND CONDITIONS OF SCDOT SPECIFICATIONS.
9. ANY UTILITIES DAMAGED THAT ARE NOT TO BE REMOVED SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE. PRIOR TO COMMENCING WITH EXCAVATION, CONTRACTOR SHALL NOTIFY PALMETTO UTILITY LOCATOR SERVICE AT 1-800-922-0983 FOR LOCATIONS OF UNDERGROUND UTILITIES.
10. ALL PIPE ENDS NOT CONSTRUCTED WITH STRUCTURES WILL BE RIP-RAPPED AS SHOWN IN DETAIL.
11. SILT FENCING SHALL BE PLACED ALONG TOE OF SLOPES ON BOTH SIDES OF ROADWAY EMBANKMENT IN FILL AREAS, AND OVER THE INLET END OF ALL EXPOSED STORM DRAINAGE PIPES. SILT FENCING IS TO BE MAINTAINED UNTIL ALL SLOPES HAVE BEEN STABILIZED AND GRASSSED, AND NO FURTHER EROSION IS EVIDENT.
12. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE BEEN TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED, UNLESS ACTIVITY IN THAT PORTION OF THE SITE WILL RESUME WITHIN 21 DAYS.
13. ALL SEDIMENT CONTROL MEASURES SHALL BE INSPECTED AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND AFTER ANY STORM EVENT OF GREATER THAN 0.5 INCHES OF PRECIPITATION DURING ANY 24-HR PERIOD. ALL SEDIMENT CONTROL FEATURES SHALL BE MAINTAINED UNTIL FINAL STABILIZATION HAS BEEN OBTAINED.
14. WHEN WORK IN A LIVE WATERWAY IS PERFORMED, PRECAUTIONS SHALL BE TAKEN TO MINIMIZE ENCROACHMENT, CONTROL SEDIMENT TRANSPORT AND STABILIZE THE WORK AREA TO THE GREATEST EXTENT POSSIBLE DURING CONSTRUCTION.



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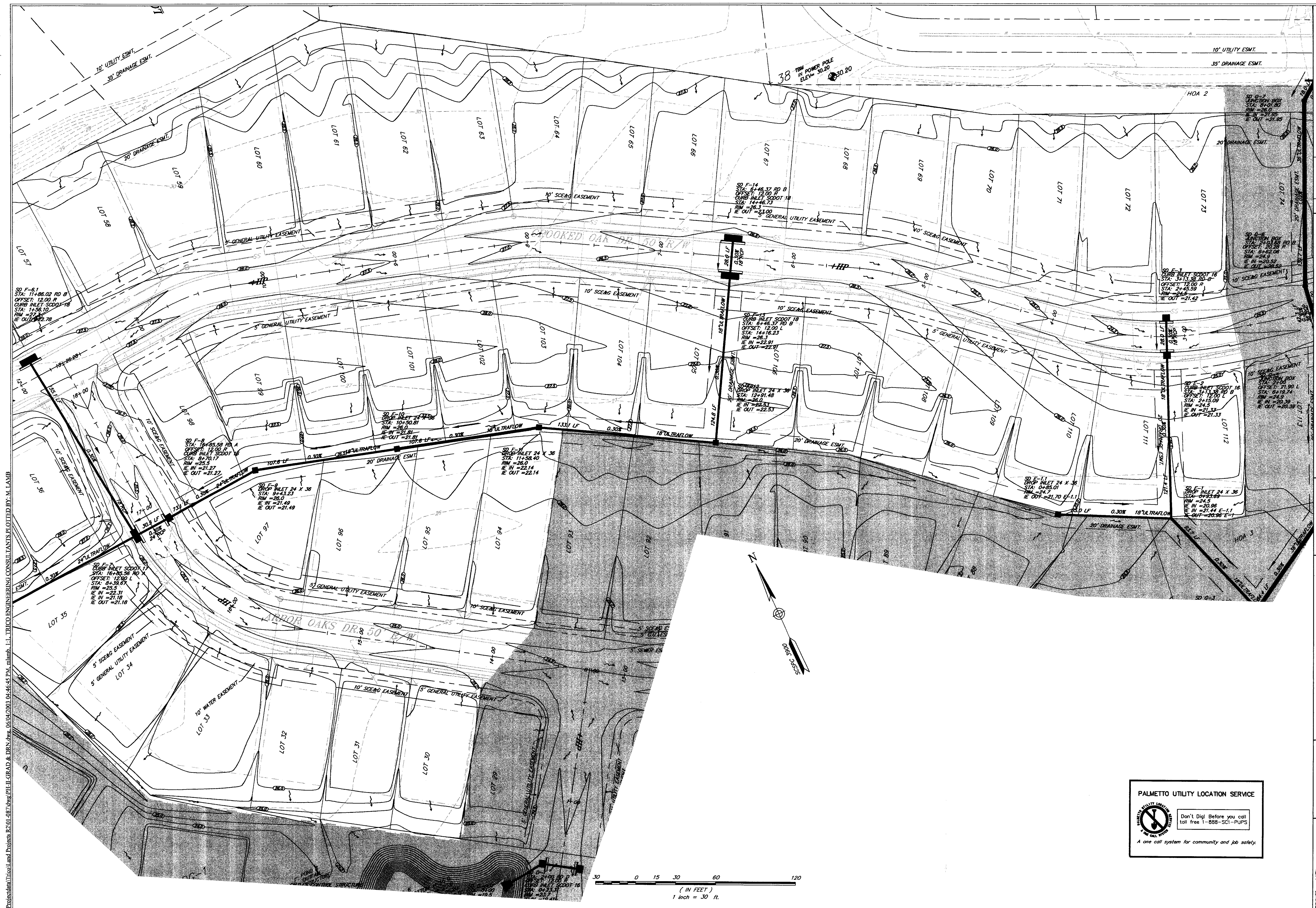
TRICO ENGINEERING CONSULTANTS, INC.
4425 Belle Oaks Drive
North Charleston, SC 29405
Phone: (843) 740-2700
Fax: (843) 740-2707
info@tricoengineering.com

REVISIONS

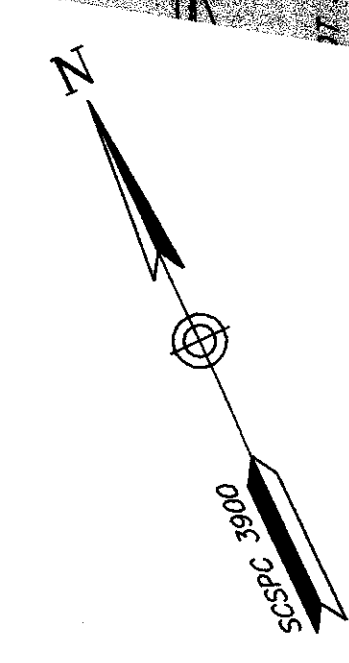
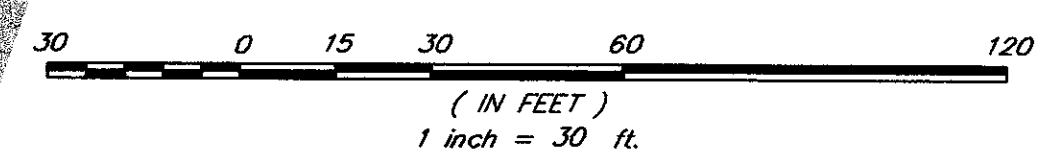
NO.	DATE

TITLE
ROADWAY DETAILS
PHASE II OF ARBOR OAKS SUBDIVISION
LOCATED IN
THE TOWN OF SUMMERVILLE
DORCHESTER COUNTY, SOUTH CAROLINA

DESIGNED: MEL
DRAWN: MEL
CHECKED: TFB
APPROVED: TFB
SCALE: 1" = 30'
DATE: 29 JANUARY 2002
PROJECT NO.: 01-087
SHEET: 10 of 28

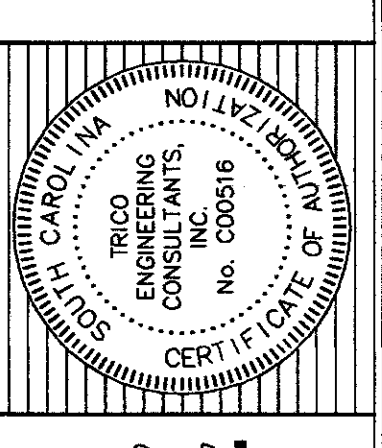


\\Procedura\Trico\1 and Procters R2\01-487.dwg\PH.LI.GRAD & DRN.dwg, 06/04/2003 04:46:45 PM, mlamb, L.I. TRICO ENGINEERING CONSULTANTS PLOTTED BY: M. LAMB



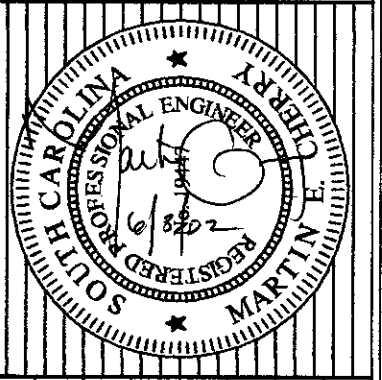
NO.	DATE	REVISIONS
1	5/22/03	ADDED NEW & EXISTING DRAINAGE EASEMENTS
2	6/04/03	REVISED RIM ELEVATIONS ON CROOKED OAKS DR.

GRADING AND DRAINAGE PLAN
PHASE II OF ARBOR OAKS SUBDIVISION
 LOCATED IN
THE TOWN OF SUMMERVILLE
DORCHESTER COUNTY, SOUTH CAROLINA



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 Summerville, SC 29405
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 info@tricoengineering.com
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PALMETTO UTILITY LOCATION SERVICE

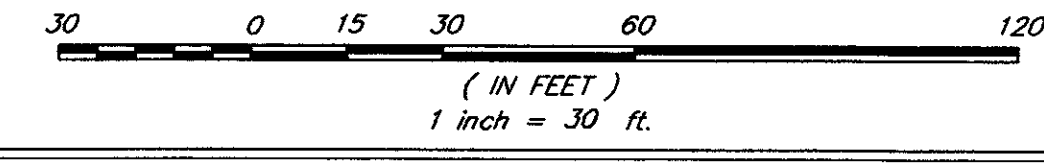
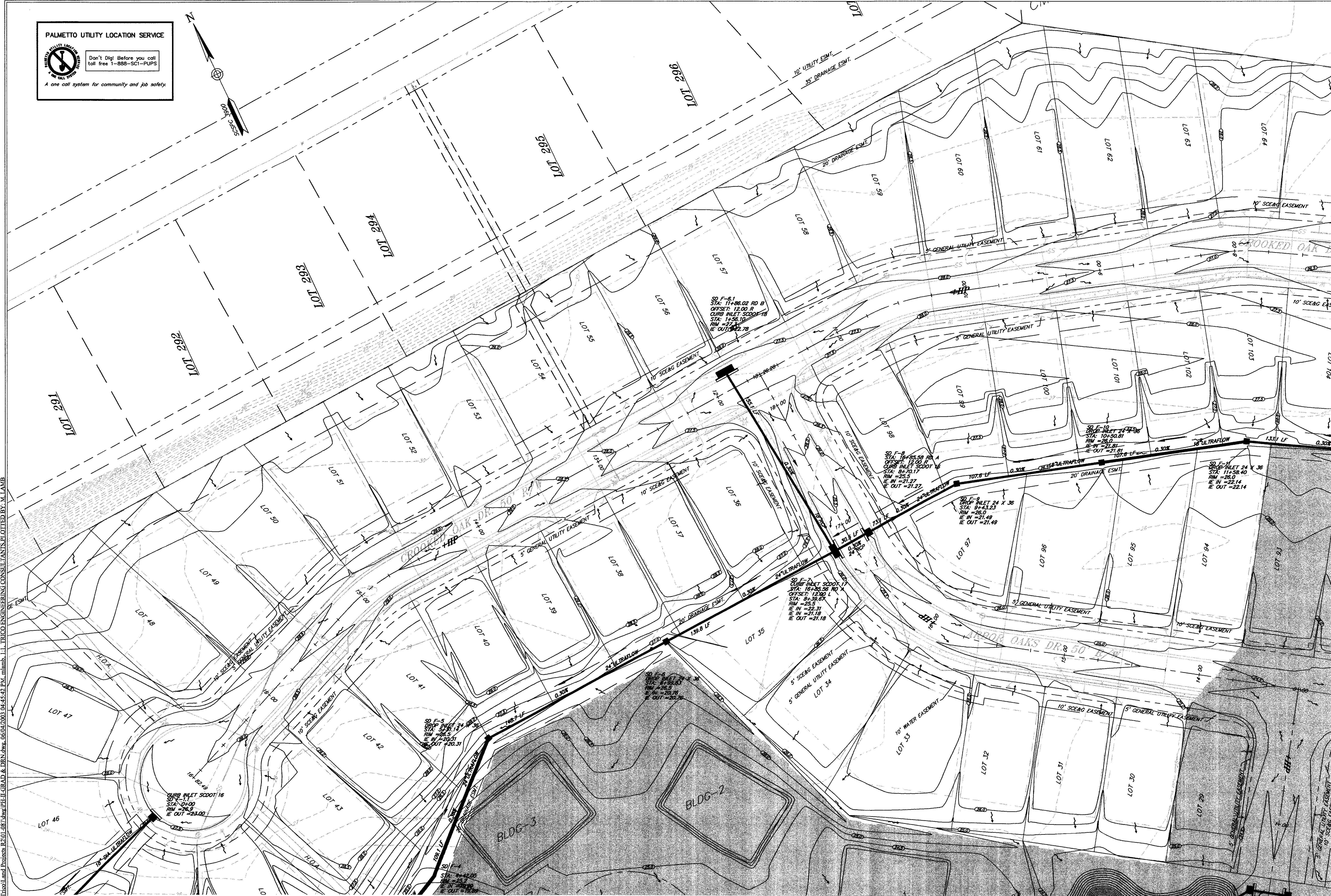
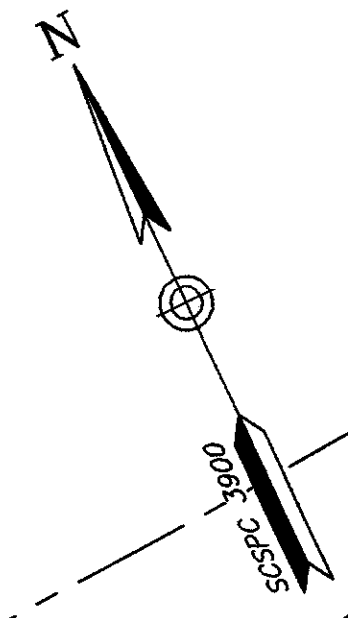
 Don't Dig! Before you call
 toll free 1-888-SC1-PUPS
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DESIGNED: MEL	DATE: 29 JANUARY 2002
DRAWN: MEL	PROJECT NO. 01-087
CHECKED: TFB	SHEET 11 OF 28
APPROVED: TFB	
SCALE: 1"=30'	

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Projected/Title and Project: B2101-087.dwg/PHI-GRAD & DRN.dwg, 06/04/2003 04:45:42 PM, mimbh, I-1, TRICO ENGINEERING CONSULTANTS PLOTTED BY: M.LAMB

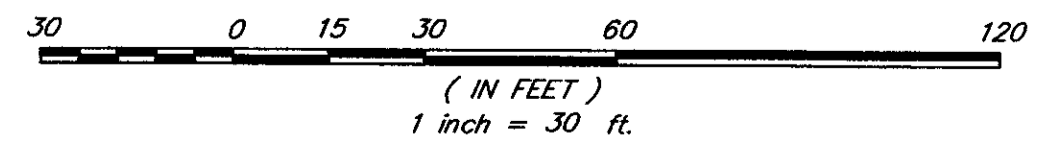
DESIGNED: MEL		TRICO ENGINEERING CONSULTANTS, INC. ENGINEERING CONSULTANTS, INC. 4425 Belle Oaks Drive South Carolina 29405 Phone: (843) 740-7700 Fax: (843) 740-7707 trico@tricoengineering.com									
DRAWN: MEL											
CHECKED: TFB											
APPROVED: TFB											
SCALE: 1" = 30'											
DATE: 29 JANUARY 2002		GRADING AND DRAINAGE PLAN PHASE II OF ARBOR OAKS SUBDIVISION LOCATED IN THE TOWN OF SUMMERVILLE DORCHESTER COUNTY, SOUTH CAROLINA									
PROJECT NO.: 01-087	<table border="1"> <tr> <th>NO.</th> <th>DATE</th> <th>REVISIONS</th> </tr> <tr> <td>2</td> <td>6/04/03</td> <td>REVISED RM ELEVATIONS ON CROOKED OAKS DR.</td> </tr> <tr> <td>1</td> <td>5/22/03</td> <td>ADDED NEW & EXISTING DRAINAGE EASEMENTS</td> </tr> </table>	NO.	DATE	REVISIONS	2	6/04/03	REVISED RM ELEVATIONS ON CROOKED OAKS DR.	1	5/22/03	ADDED NEW & EXISTING DRAINAGE EASEMENTS	SHEET 12 OF 28
NO.	DATE	REVISIONS									
2	6/04/03	REVISED RM ELEVATIONS ON CROOKED OAKS DR.									
1	5/22/03	ADDED NEW & EXISTING DRAINAGE EASEMENTS									

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I:\Projects\Tico\Land\Projects R201-087\dwg\PH-I-GRAD & DRN.dwg, 05/22/2003, 10:13:07 AM, sanowden, HP, DesignPlot, 1055CM by HP_p03, PLOTTED BY: COLEY, S., TRICO ENGINEERING



DESIGNED: MEL	DATE: 29 JANUARY 2002
DRAWN: MEL	PROJECT NO.: 01-087
CHECKED: TFB	SHEET 13 OF 28
APPROVED: TFB	
SCALE: 1"=30'	

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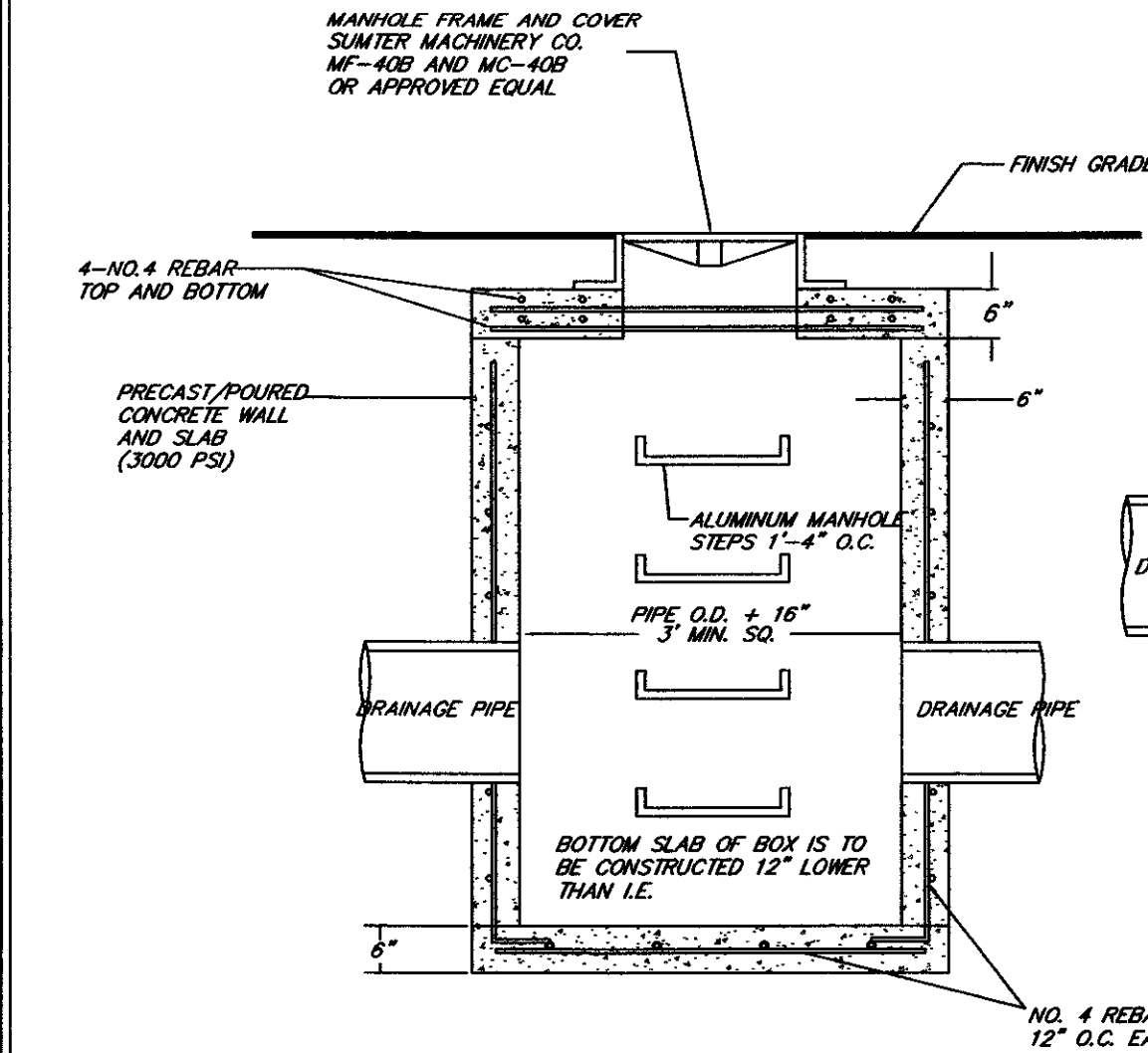
REGISTERED PROFESSIONAL ENGINEER
STATE OF SOUTH CAROLINA
No. 60816
COSTA F. CAY, C.E.

TITLE
GRADING AND DRAINAGE PLAN
PHASE II OF ARBOR OAKS SUBDIVISION
LOCATED IN
THE TOWN OF SUMMERVILLE
DORCHESTER COUNTY, SOUTH CAROLINA

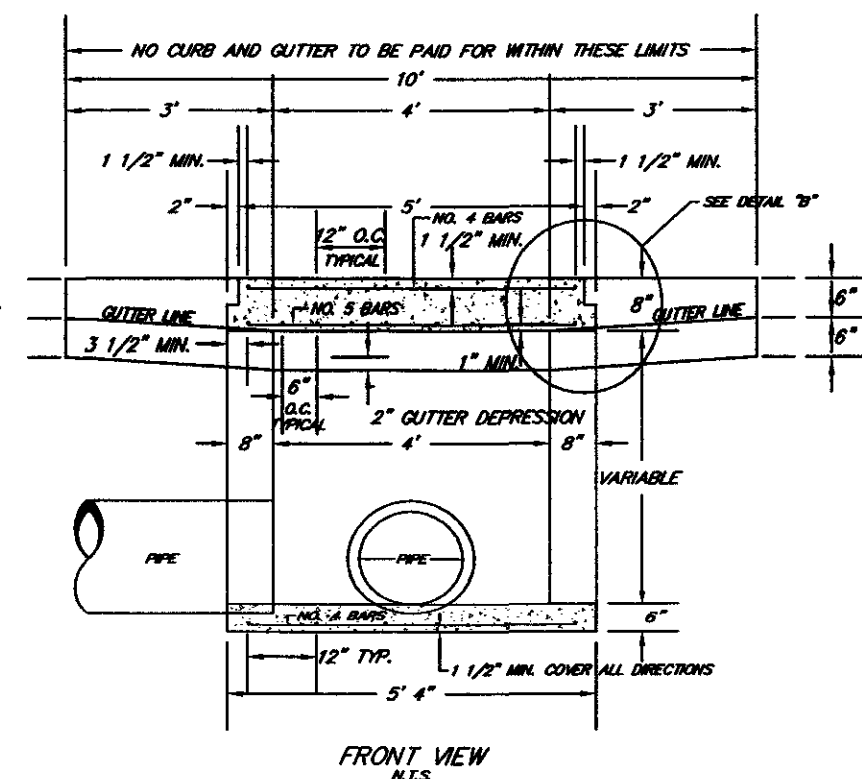
NO.	DATE	ADDED NEW & EXISTING DRAINAGE EASEMENTS	REVISIONS
1	5/22/03		

CONSTRUCTION NOTES:

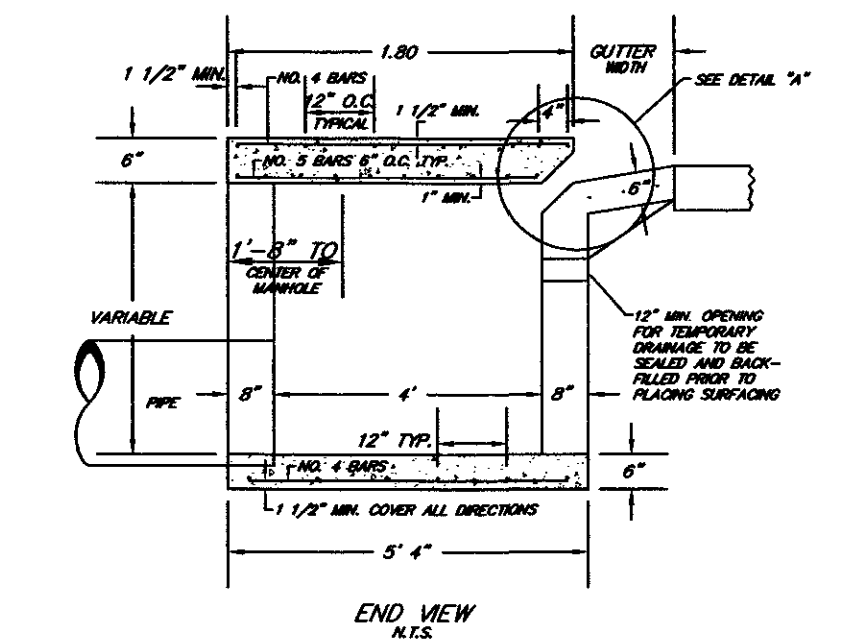
1. ALL ELEVATIONS ARE BASED ON NGVD 29, ON SITE BENCHMARK LOCATED IN A POWER POLE NEAR LOT 68 AT ELEVATION 30.20'.
2. ALL WORK, METHODS, EQUIPMENT AND MATERIALS ARE TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE TOWN OF SUMMERVILLE ROAD CODE AND SPECIFICATIONS, LATEST EDITION.
3. ALL STREET RIGHT OF WAYS, SANITARY SEWER EASEMENTS, AND DRAINAGE EASEMENTS TO BE CLEARED 100% AND ALL DEBRIS REMOVED.
4. THE LOCATIONS OF EXISTING UTILITIES IS APPROXIMATE, THE CONTRACTOR SHALL VERIFY THE LOCATIONS, SIZES AND ELEVATIONS PRIOR TO BEGINNING WORK. SHOULD THE CONTRACTOR FIND ANY DISCREPANCIES ON THE DRAWINGS OR IN THE FIELD PRIOR TO BEGINNING WORK OR DURING CONSTRUCTION, HE SHALL IMMEDIATELY NOTIFY THE ENGINEER.
5. CONTRACTOR SHALL VERIFY OWNER OR ENGINEER HAS OBTAINED ALL NECESSARY PERMITS FOR CONSTRUCTION PRIOR TO THE START OF THE PROJECT.
6. PIPE UNDERDRAINS WILL BE CONSTRUCTED ALONG 100% OF ALL ROADWAY CURB INLETS AND JUNCTION BOXES, AND ALL AREAS DEEMED NECESSARY BY THE PROJECT ENGINEER OR COUNTY ENGINEER AND WILL BE CONSTRUCTED IN ACCORDANCE WITH THE SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, LATEST EDITION.
7. ALL SWALE DITCHES SHALL BE GRADED, PRIOR TO COMPLETION OF STREETS, TO GRADES SET BY THE DESIGN ENGINEER WITH THE APPROVAL OF THE TOWN OF SUMMERVILLE ENGINEER.
8. UNIFORMLY GRADE TOP SOIL BEHIND CURB AND GUTTER AT ADJACENT PROPERTY LINES TO MEET EXISTING GRADES AT PROPERTY LINE.
9. GRADE TO ENSURE POSITIVE DRAINAGE. FINISHED SURFACES SHALL FREE FROM SURFACE IRREGULARITIES.
10. THE SITE MUST BE CLEARED AND GRUBBED PRIOR TO PLACING EARTHWORK FILL. UNSUITABLE "POCKETS" OF COMPRESSIBLE SOILS SHALL BE REMOVED, BACKFILLED, AND COMPACTED WITH SUITABLE SOIL.
11. SHOULDERS OF ROADWAYS SHALL BE LEFT IN GOOD CONDITION, THAT IS ACCEPTABLE TO THE TOWN OF SUMMERVILLE AND ALL TOPSOIL AND GRASS THAT IS DISTURBED SHALL BE REPLACED IN ACCORDANCE WITH THE S.C. DEPT. OF TRANSPORTATION.
12. ALL PIPE ENDS NOT CONSTRUCTED WITH STRUCTURES WILL BE RIPRAPPED AS SHOWN IN DETAIL.
13. EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO BEGINNING OF ANY WORK.
14. TOPOGRAPHICAL SURVEY PROVIDED BY TRICO ENGINEERING CONSULTANTS.
15. ALL UTILITIES TO BE INSTALLED BEFORE CURB & GUTTER OR S.A.B.C. INSTALLED.



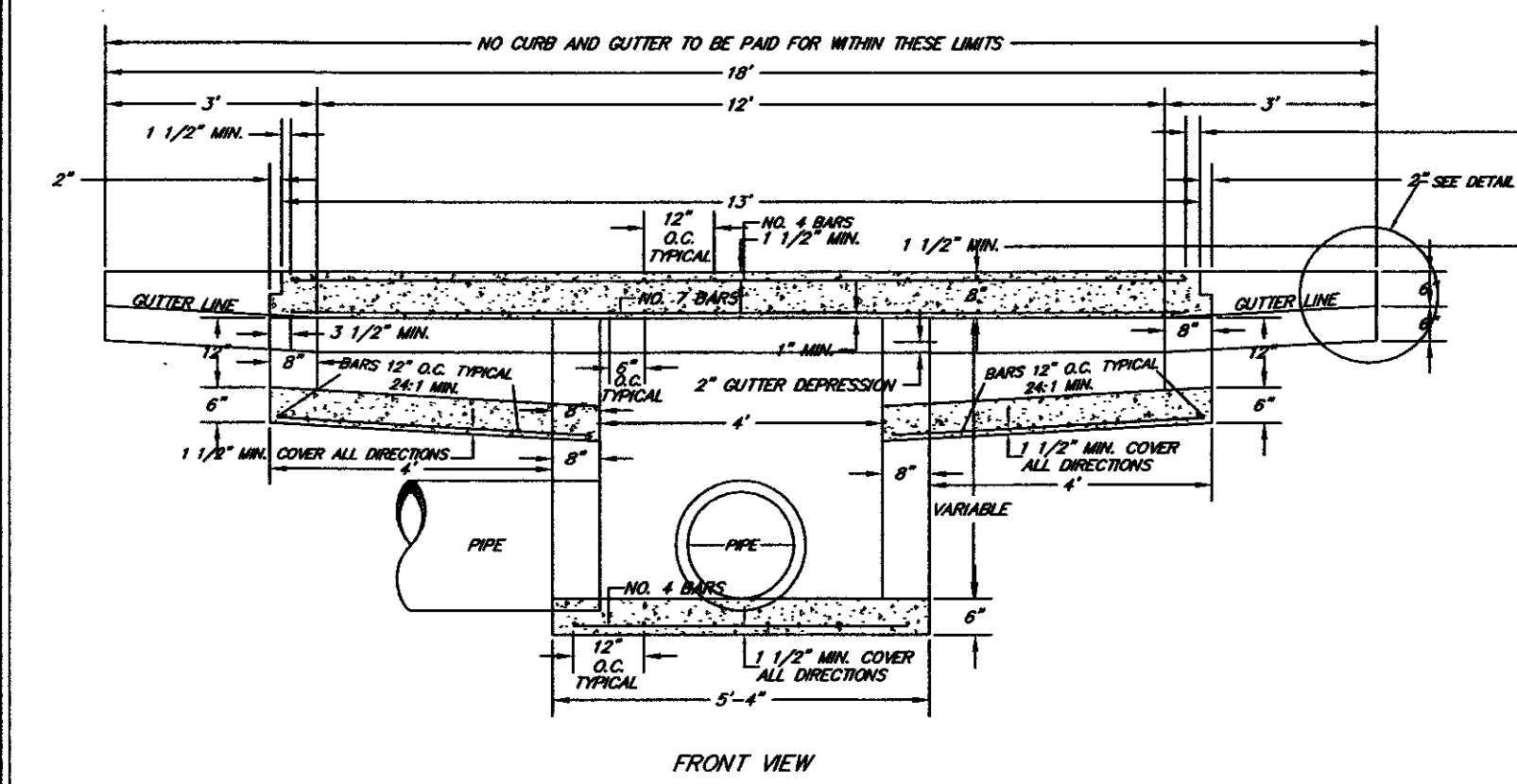
JUNCTION BOX DETAIL
N.T.S.



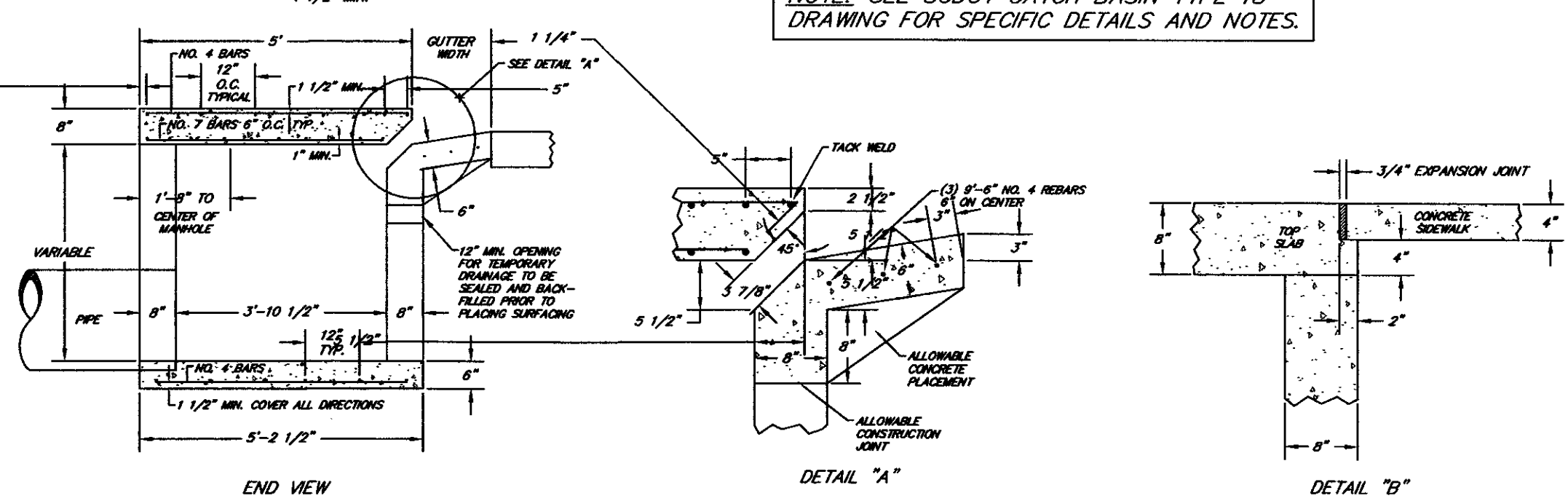
SCDOT CATCH BASIN TYPE 16
N.T.S.



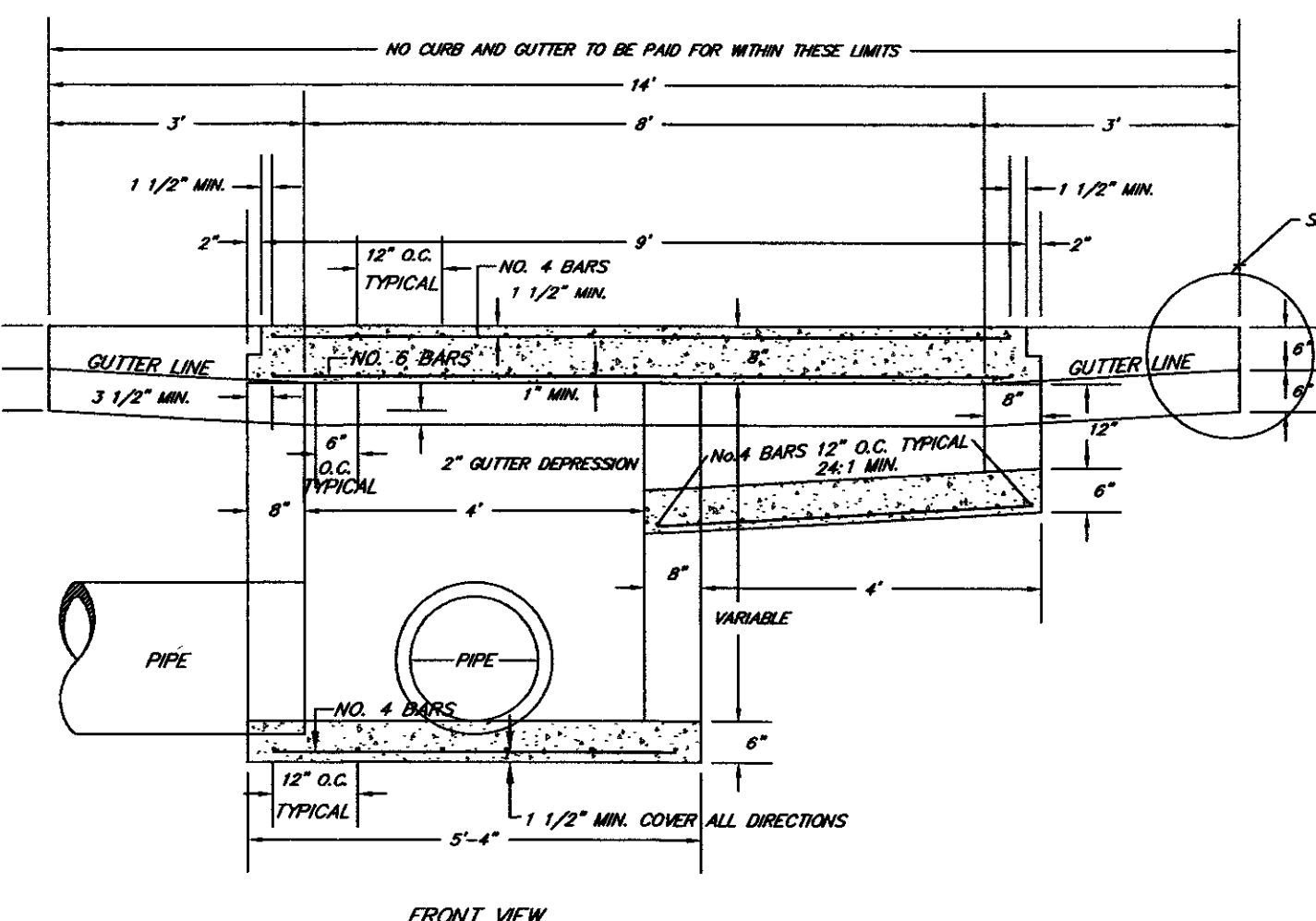
SCDOT CATCH BASIN TYPE 17
N.T.S.



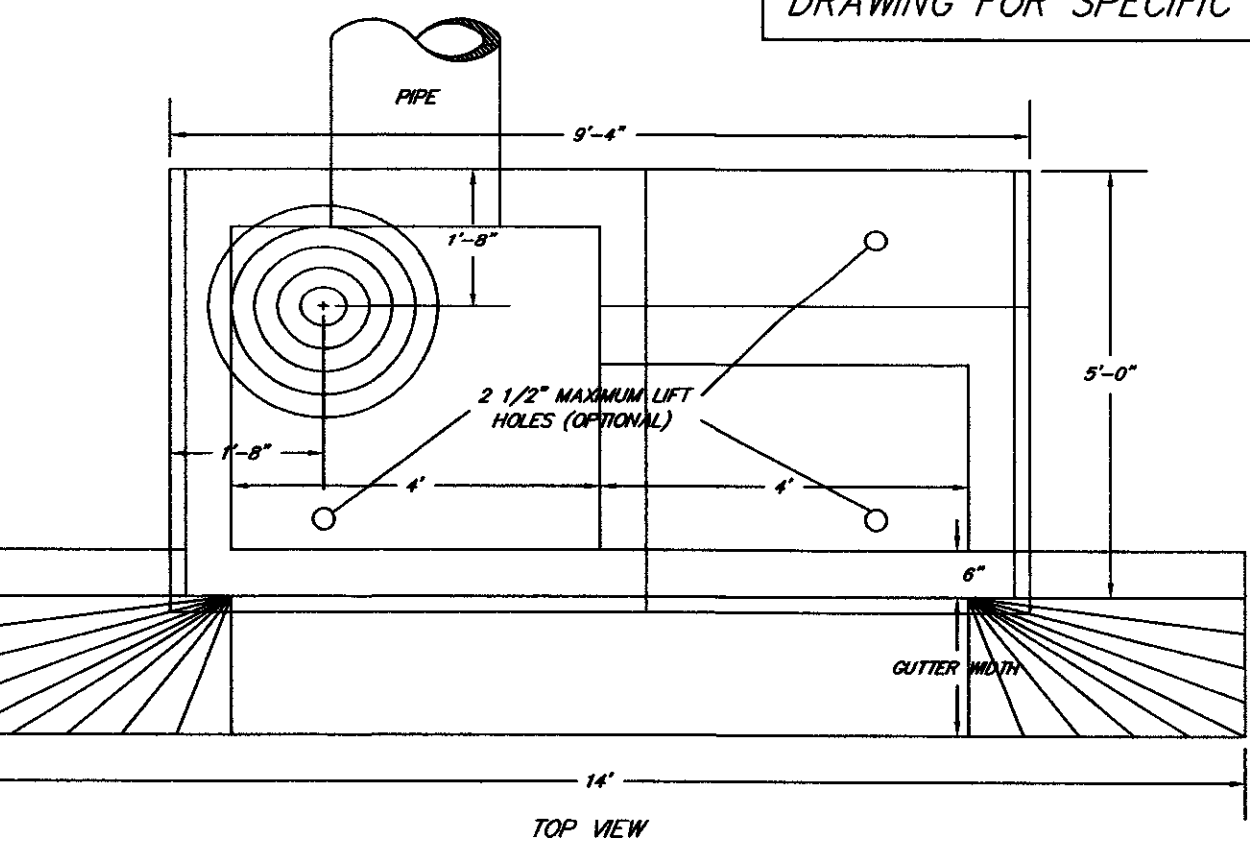
SCDOT CATCH BASIN TYPE 18
N.T.S.



- NOTES:**
1. FOR CONSTRUCTION OF THE CATCH BASIN WALLS EITHER BRICK MASONRY OR CLASS "A" CONCRETE MAY BE USED FOR CONCRETE THE WALLS ARE TO BE 6 IN. THICK WITH A REINFORCING STEEL AREA OF 0.20 SQ. IN. PER FT. FOR BRICK THE WALLS ARE TO BE 8 IN. THICK. THE INTERIOR DIMENSIONS ARE TO REMAIN AS SHOWN FOR OTHER TYPE CONSTRUCTION.
 2. THE BOTTOM SLAB OF THE BOX SHALL BE A MINIMUM OF 6 IN. THICK CLASS A CONCRETE WITH A REINFORCING STEEL AREA OF 0.20 SQ. IN. PER FT. WIRE MESH MAY BE USED IN LIEU OF STEEL BARS PROVIDED A MINIMUM OF 0.20 SQ. IN. PER FT. IS MET.
 3. FOR CONSTRUCTION OF THE CATCH BASIN TOP CLASS A OR BETTER CONCRETE SHALL BE USED WITH REINFORCING STEEL AS SHOWN.
 4. MORTAR SHALL BE TYPE S OR M.
 5. IF DESIRED THESE ITEMS MAY BE PRE CAST PRIOR TO INSTALLATION IN LIEU OF BEING CAST IN PLACE. THE USE OF PRECAST UNITS WILL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF OBTAINING SATISFACTORY INSTALLATIONS. SEE STANDARD DRAWINGS FOR PRECAST STRUCTURES FOR ADDITIONAL DETAILS AND SPECIFICATIONS.
 6. REINFORCING STEEL SHALL BE DEFORMED AND SHALL CONFORM TO AASHTO M 31, GRADE 60. WIRE MESH SHALL CONFORM TO AASHTO M 55 AND M 221.
 7. IF STRUCTURE DEPTH EXCEEDS 4'-6", METAL STEPS ARE TO BE PLACED ON WALL. SEE SCDOT STANDARD DRAWING 719-18.
 8. WHEN IT IS NECESSARY TO PLACE A CATCH BASIN IN A CURVE, THE FACE OF THE CATCH BASIN TOP SHALL CONFORM TO THE HORIZONTAL CURVATURE OF THE ADJACENT CURB WHEN THE RADIUS IS 100 FEET OR LESS. OTHERWISE, THE TOP SHALL BE RECTANGULAR WITH SQUARE CORNERS. IN ALL CASES, THE BACK OF THE CATCH BASIN SHOULD FOLLOW THE SAME ALIGNMENT AS ITS FACE.
 9. SEE SCDOT STANDARD DRAWING 719-7 FOR DETAIL OF MANHOLE CASTING AND COVER.
 10. LIFT HOLES MAY BE PLACED AS NECESSARY. ALL LIFT HOLES IN THE LID SHALL BE GROUTED SHUT PRIOR TO COMPLETION OF THE INSTALLATION.
 11. THE CONTRACT UNIT PRICE FOR CATCH BASINS SHALL INCLUDE THE COST OF FURNISHING ALL MATERIALS AND WORK INCIDENTAL TO THE CONSTRUCTION OF THE STRUCTURE COMPLETE IN PLACE AS SHOWN, INCLUDING THE CURB AND GUTTER, IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

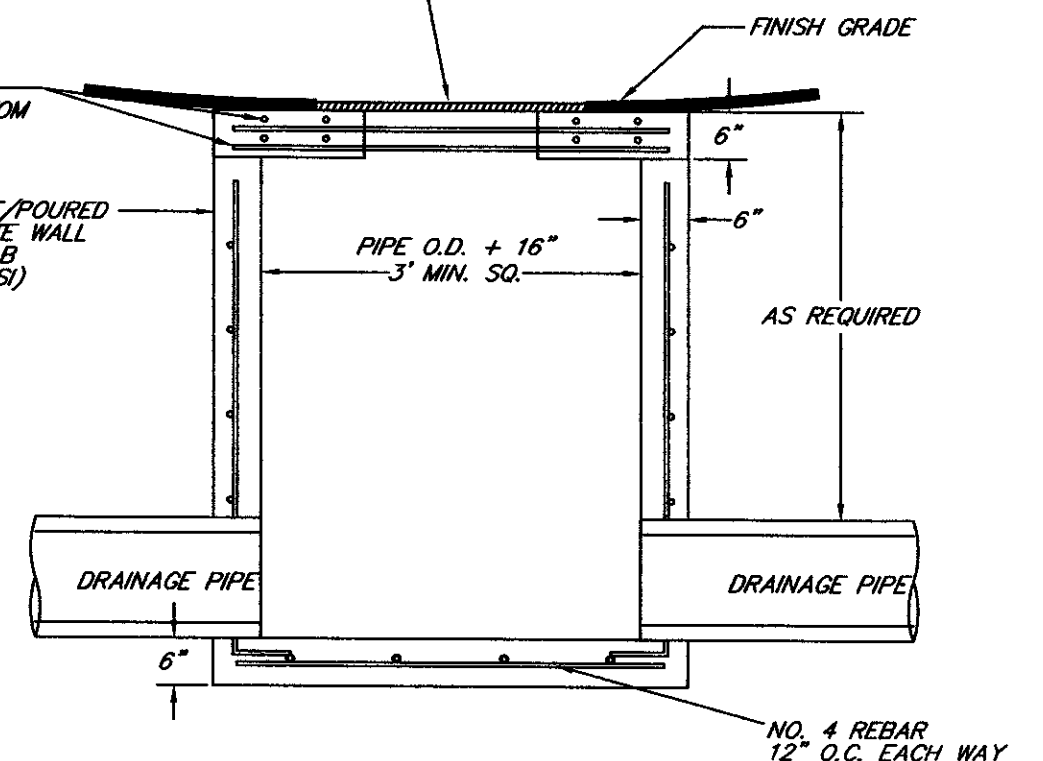
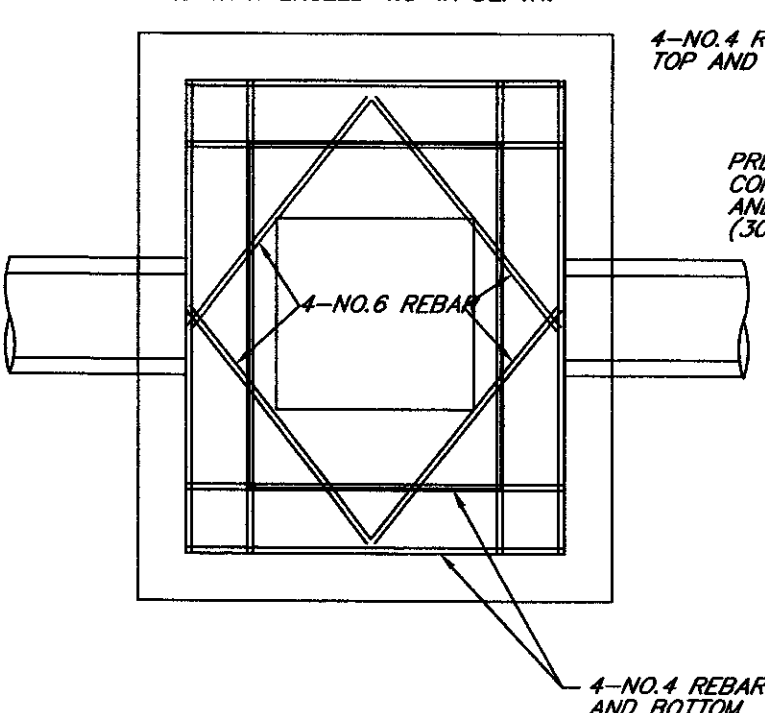


SCDOT CATCH BASIN TYPE 17
N.T.S.

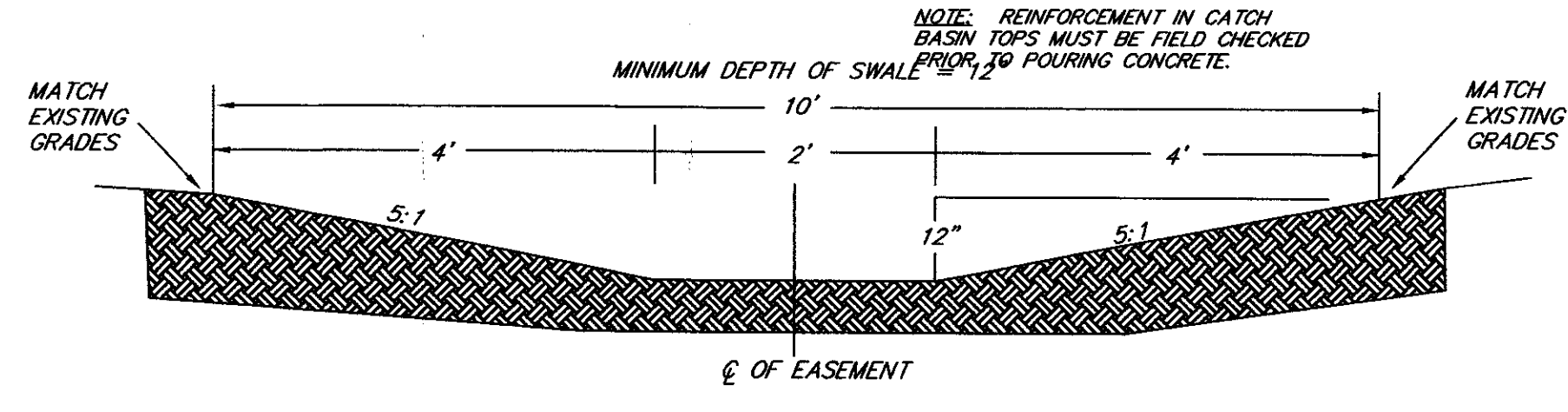


SCDOT CATCH BASIN TYPE 17
N.T.S.

- NOTES:**
1. FOR CONSTRUCTION OF THE CATCH BASIN WALLS EITHER BRICK MASONRY OR CLASS "A" CONCRETE MAY BE USED. FOR CONCRETE THE WALLS ARE TO BE 6 IN. THICK WITH A REINFORCING STEEL AREA OF 0.20 SQ. INCH PER FT. FOR BRICK THE WALLS ARE TO BE 8 IN. THICK.
 2. THE BOTTOM SLAB OF THE BOX SHALL BE A MINIMUM OF 6 IN. THICK CLASS A CONCRETE WITH A REINFORCING STEEL AREA OF 0.20 SQ. INCH PER FT. WIRE MESH MAY BE USED IN LIEU OF STEEL BARS PROVIDED A MINIMUM OF 0.20 SQ. INCH PER FT. IS MET.
 3. FOR CONSTRUCTION OF THE CATCH BASIN TOP CLASS A OR BETTER CONCRETE SHALL BE USED WITH REINFORCING STEEL AS SHOWN.
 4. MORTAR SHALL BE TYPE S OR M.
 5. IF DESIRED THESE ITEMS MAY BE PRE CAST PRIOR TO INSTALLATION IN LIEU OF BEING CAST IN PLACE. THE USE OF PRE CAST UNITS WILL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF OBTAINING SATISFACTORY INSTALLATIONS. SEE STANDARD DRAWINGS FOR PRE CAST STRUCTURES FOR ADDITIONAL DETAILS AND SPECIFICATIONS.
 6. REINFORCING STEEL SHALL BE DEFORMED AND SHALL CONFORM TO AASHTO M 31, GRADE 60. WIRE MESH SHALL CONFORM TO AASHTO M 55, AND M 221.
 7. THE NUMBER OF BOX OPENINGS SHALL BE CONSTRUCTED, AS DIRECTED BY THE ENGINEER, TO FIT FIELD CONDITIONS.
 8. STEPS ARE REQUIRED IN ALL DRAINAGE STRUCTURES THAT EXCEED 4.5' IN DEPTH.



DROP INLET DETAIL
N.T.S.



GRASSED EARTH SWALE DETAIL
N.T.S.

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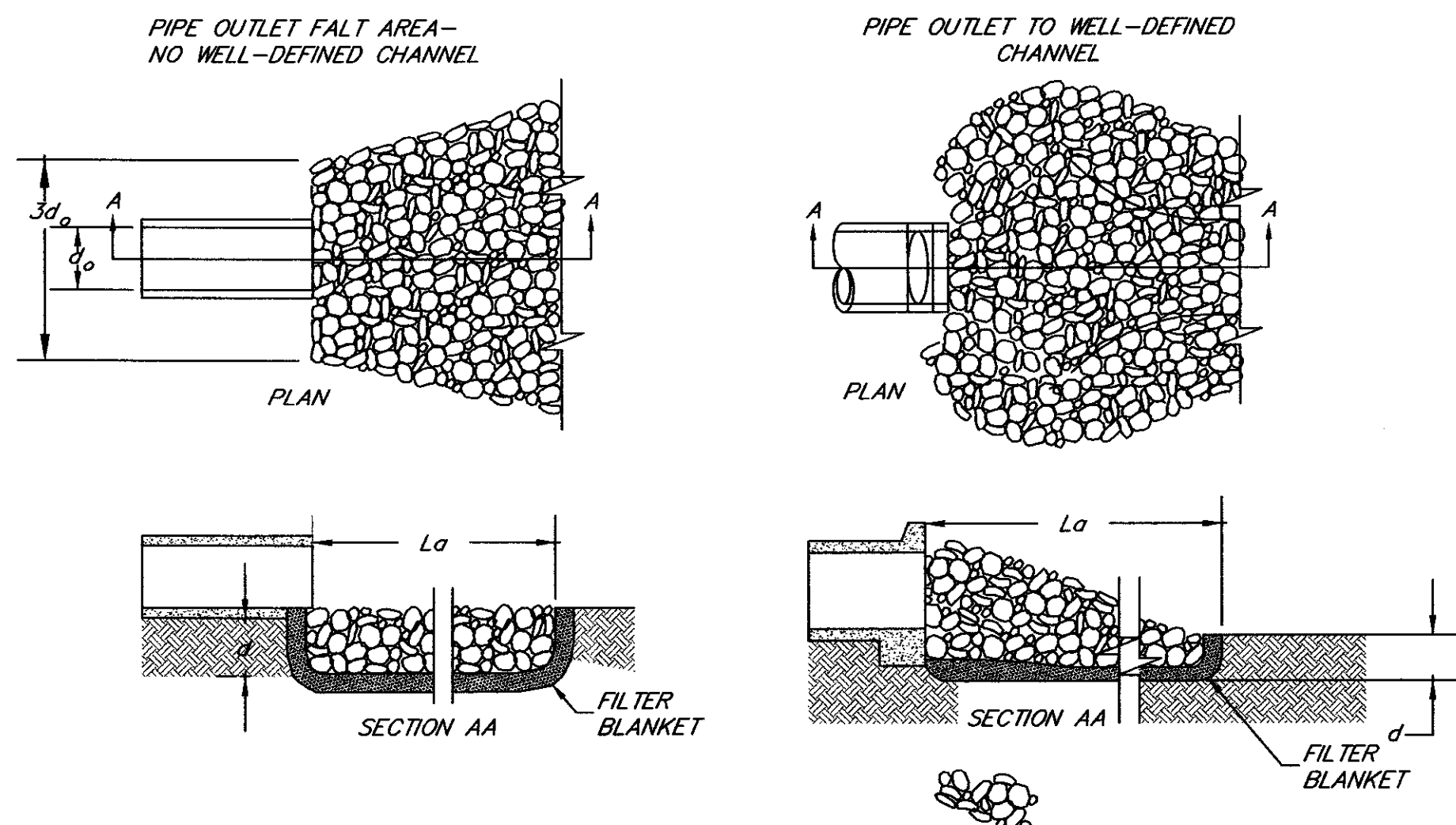
4425 Belle Oaks Drive
North Charleston, SC 29405
Phone: (843) 740-2700
Fax: (843) 740-2707
info@tricoengineering.com

Civil Engineering - Surveying - Landscape Architecture
Land Planning - Wetland Consulting - GIS Services
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DESIGNED: MEL
DRAWN: MEL
CHECKED: TEB
APPROVED: TEB
SCALE: 1"=30'
DATE: 29 JANUARY 2002
PROJECT NO.: 07-087
SHEET 14 OF 29

TITLE: **GRADING AND DRAIN DETAILS**
PHASE II OF ARBOR OAKS SUBDIVISION
LOCATED IN
THE TOWN OF SUMMERVILLE
DORCHESTER COUNTY, SOUTH CAROLINA

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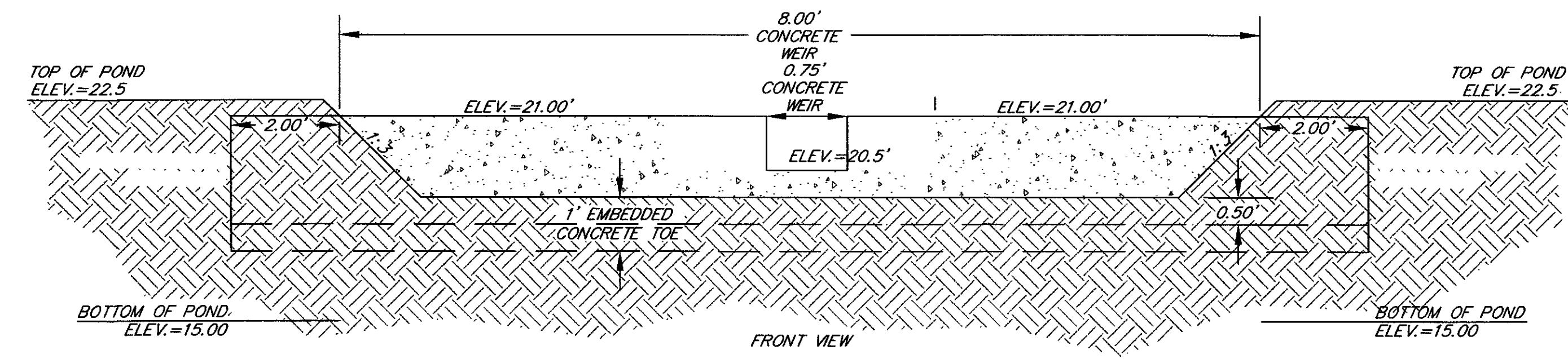
- NOTES:**
1. L_a IS THE LENGTH OF THE RIPRAP APRON.
 2. $d = 1.5$ TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESS THAN 6".
 3. IN A WELL-DEFINED CHANNEL EXTEND THE APRON UP THE CHANNEL BANKS TO AN ELEVATION OF 6" ABOVE THE MAXIMUM TAILWATER DEPTH OR TO THE TOP OF THE BANK, WHICHEVER IS LESS.
 4. A FILTER BLANKET OR FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE RIPRAP AND SOIL FOUNDATION.

OUTLET STABILIZATION STRUCTURE
N.T.S.

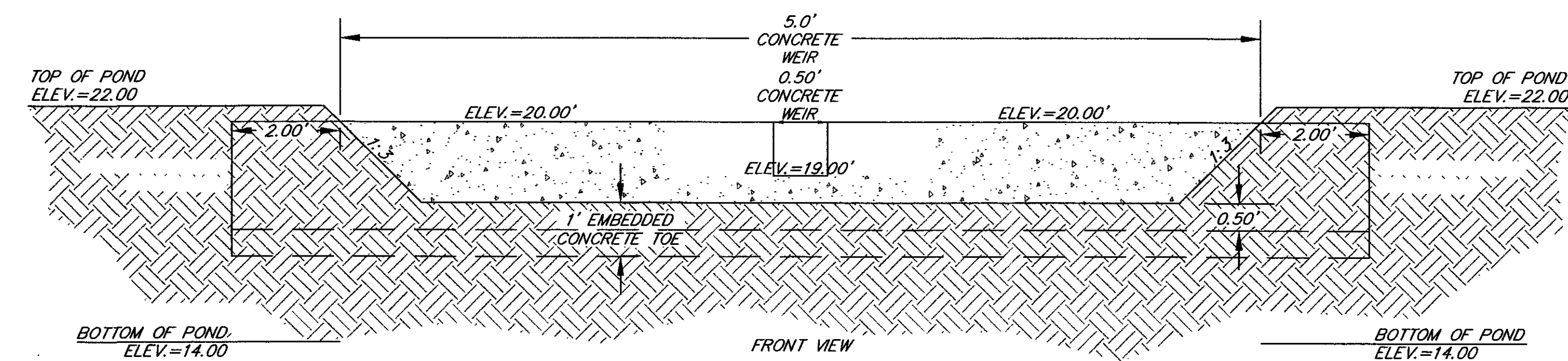
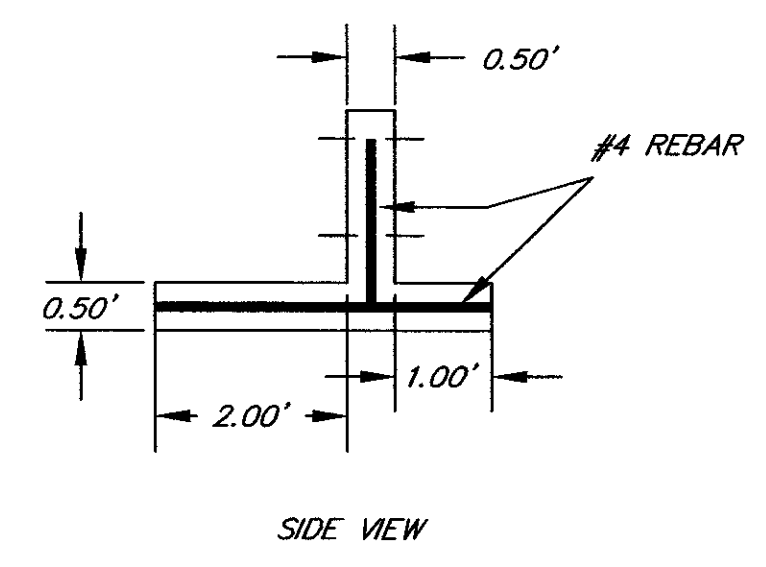
(1) = PIPE OUTLET TO HAVE BEVELED END WITH NO FLARE
 (2) = PIPE OUTLET TO HAVE FLARED END

PIPE OUTLET	PIPE DIA. (in.)	# PIPES	SD (ft.)	L_a (ft.)	W (ft.)	d (in.)
N/A-1	24	1	6	5	8	9
N/O-2	24	1	6	5	8	9

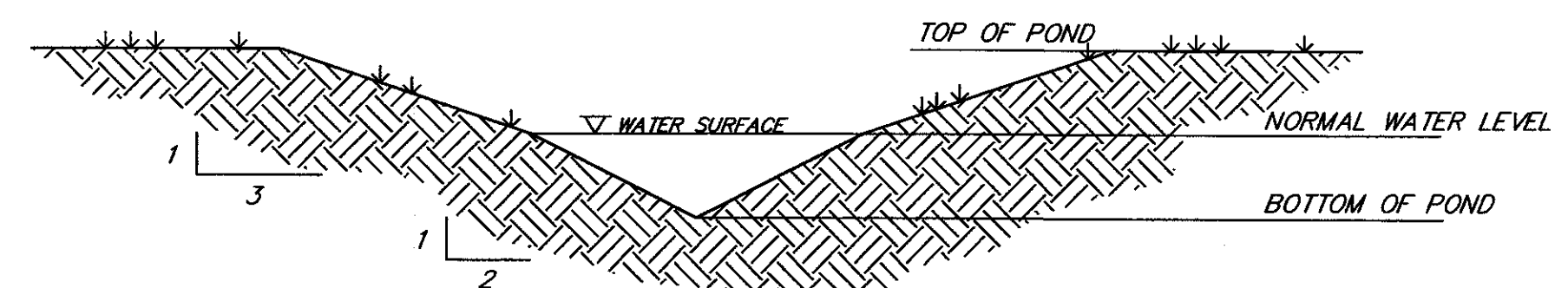
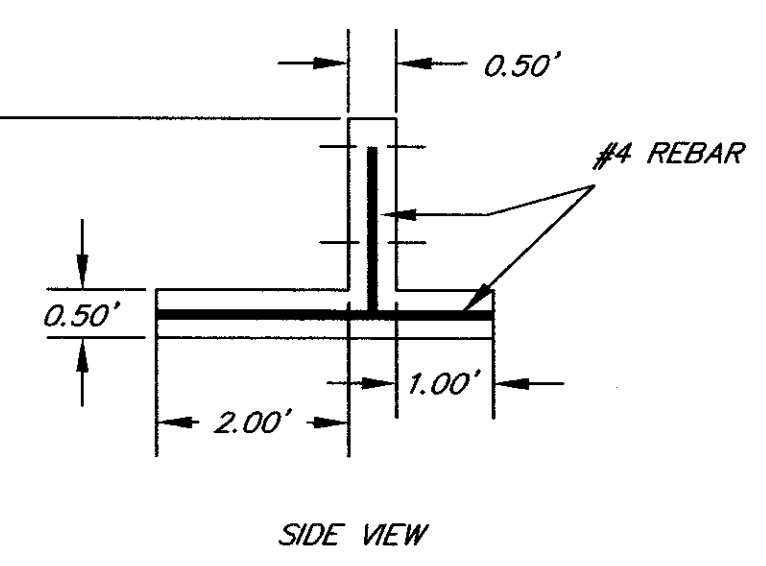
RIP-RAP DIMENSIONS



POND 1 OUTLET CONTROL DEVICE
N.T.S.



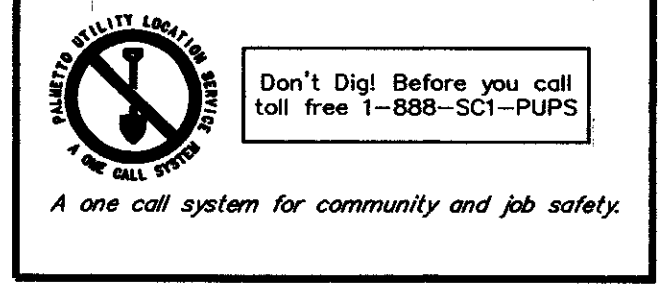
POND 2 OUTLET CONTROL DEVICE
N.T.S.



TYPICAL POND SECTION
N.T.S.

NOTE: DETAIL TO SHOW 3:1 SLOPE ABOVE NORMAL WATER AND 2:1 BELOW NORMAL WATER FOR ALL PONDS

PALMETTO UTILITY LOCATION SERVICE



DESIGNED : MEL
DRAWN : MEL
CHECKED : TFB
APPROVED : TFB
SCALE : 1"=30'
DATE : 29 JANUARY 2002
PROJECT NO. : 07-087
SHEET 15 **OF** 28

TRICO ENGINEERING CONSULTANTS, INC.
 4425 Belle Oaks Drive
 North Charleston, SC 29405
 Phone (843) 740-9700
 Fax (843) 740-7707
 info@tricoengineering.com
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 Land Planning - Wetland Consulting - GIS Services
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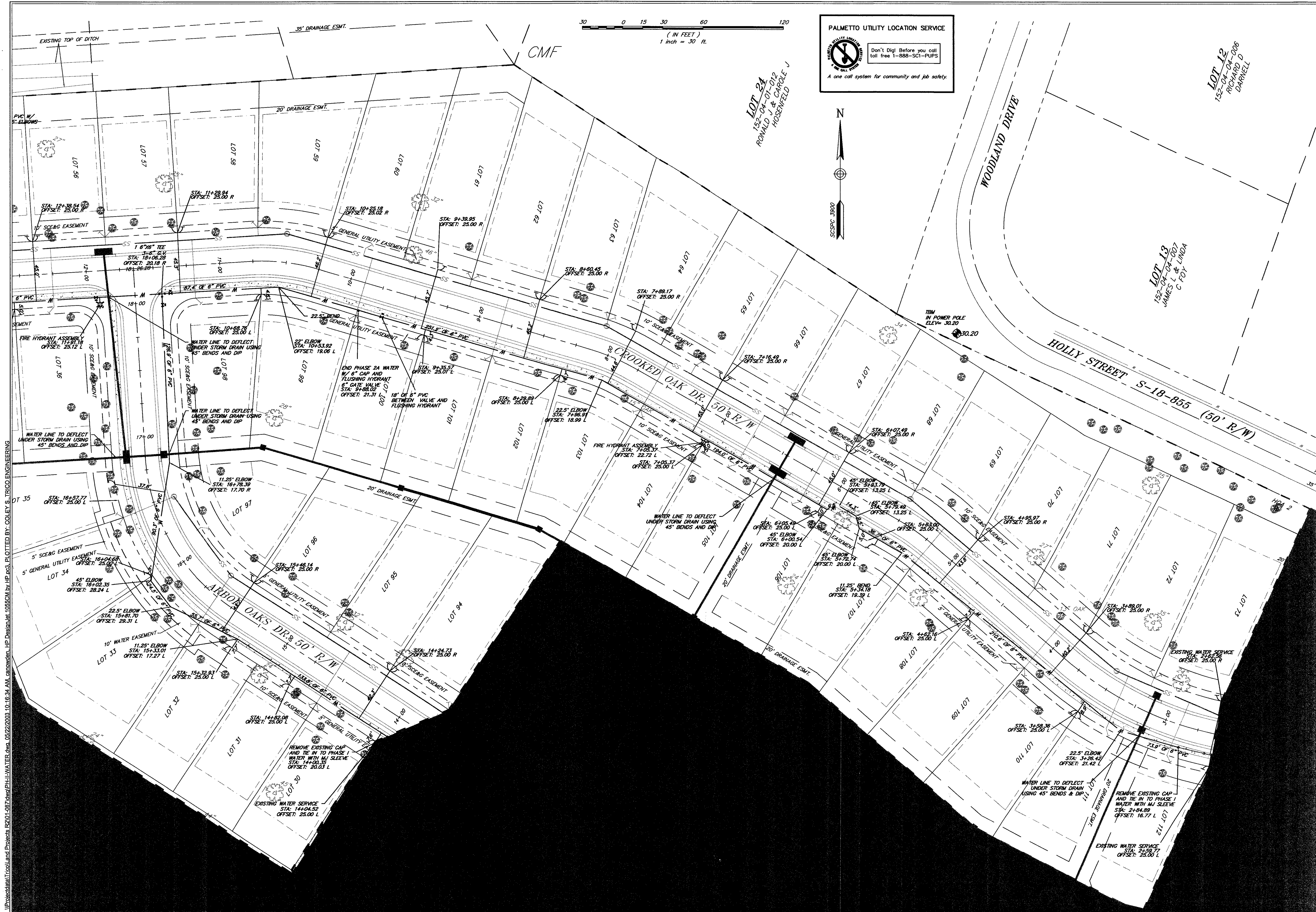
THE TOWN OF SUMMERVILLE
 DORCHESTER COUNTY, SOUTH CAROLINA
GRADING AND DRAIN. DETAILS
 PHASE II OF ARBOR OAKS SUBDIVISION
 LOCATED IN

TITLE: GRADING AND DRAIN. DETAILS
 PHASE II OF ARBOR OAKS SUBDIVISION
 LOCATED IN THE TOWN OF SUMMERVILLE
 DORCHESTER COUNTY, SOUTH CAROLINA

ADDED RIP RAP DETAIL, REMOVED TRASH RACK DETAIL
 REVISIONS
 NO. DATE
 1 5/29/03

CAROLINA PROFESSIONAL ENGINEERS AND SURVEYORS
 STATE OF SOUTH CAROLINA
 TRICO ENGINEERING CONSULTANTS, INC.
 No. 000516
 CERTIFICATE OF AUTHORITY

ENGINEERING CONSULTANTS, INC.
 PROFESSIONAL ENGINEERS
 STATE OF SOUTH CAROLINA
 MARK T. TRICO



\Projects\Titol\and Projects R2101-087.dwg\PH1\WATER.dwg, 05/22/2003 10:16:34 AM, smowden, HP Design\at_1055CM by HP.m3, TRICO ENGINEERING

DESIGNED: MEL	DATE: 29 JANUARY 2002
DRAWN: MEL	PROJECT NO.: 01-087
CHECKED: TFB	SHEET 16 OF 28
APPROVED: TFB	
SCALE: 1"=30'	

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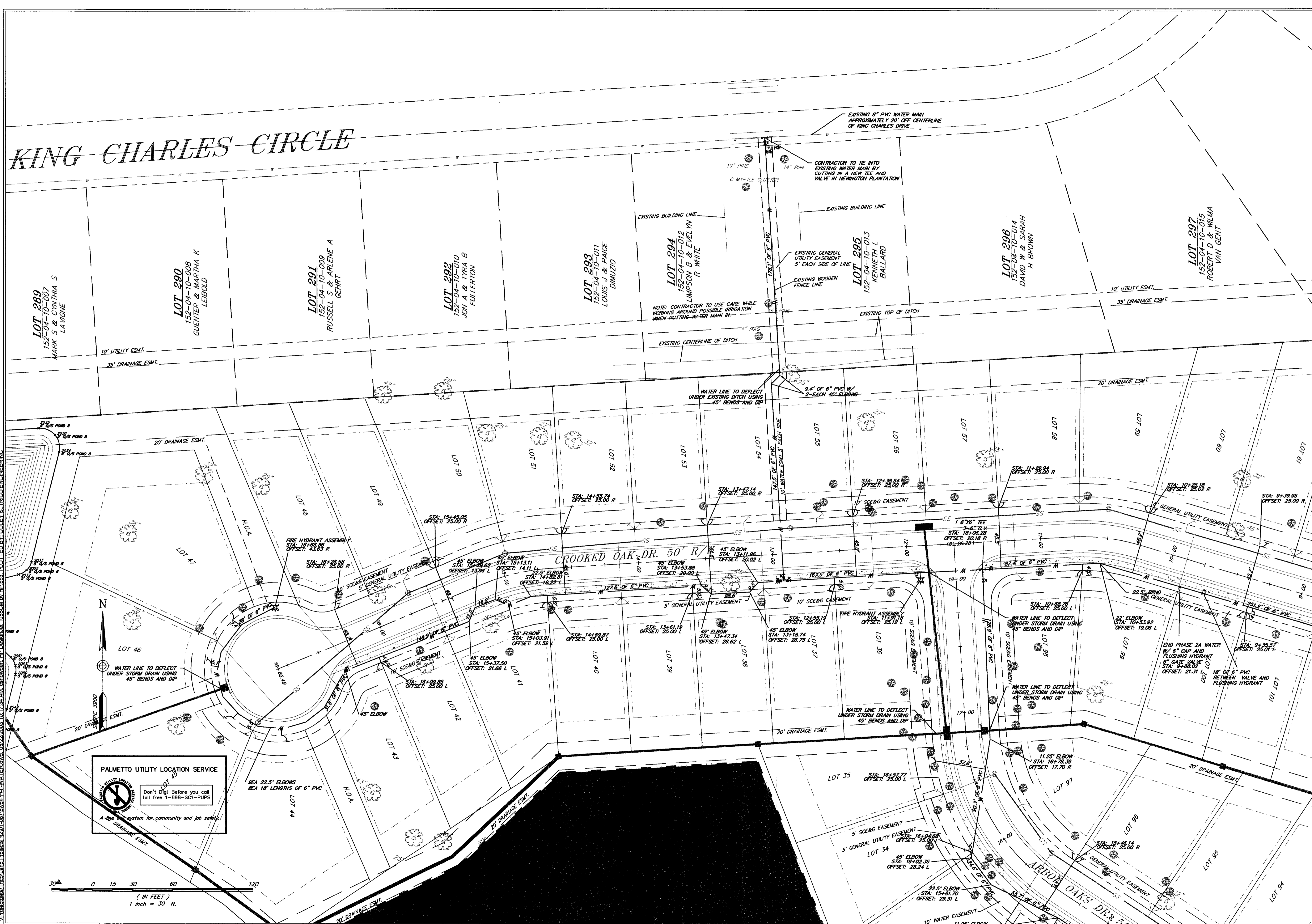
TITLE
WATER PLAN
 PHASE II OF ARBOR OAKS SUBDIVISION
 LOCATED IN
 THE TOWN OF SUMMERVILLE
 DORCHESTER COUNTY, SOUTH CAROLINA

LOT 12
 152-04-04-006
 RICHARD D
 DARNELL

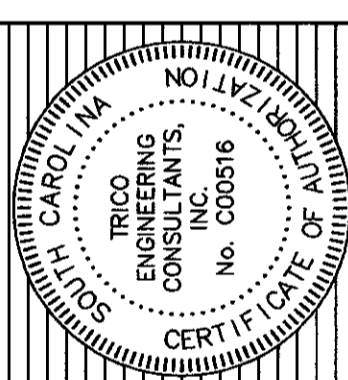
LOT 13
 152-04-04-007
 JAMES L & LINDA
 C FOLY

LOT 24
 152-04-01-012
 RONALD J & CAROLE J
 HOSENFELD

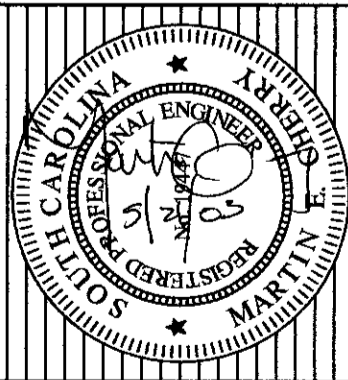
KING CHARLES CIRCLE



TITLE
WATER PLAN
 PHASE II OF ARBOR OAKS SUBDIVISION
 LOCATED IN
 THE TOWN OF SUMMERVILLE
 DORCHESTER COUNTY, SOUTH CAROLINA



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 South Carolina 29405
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 ENGINEERING CONSULTANTS, INC.
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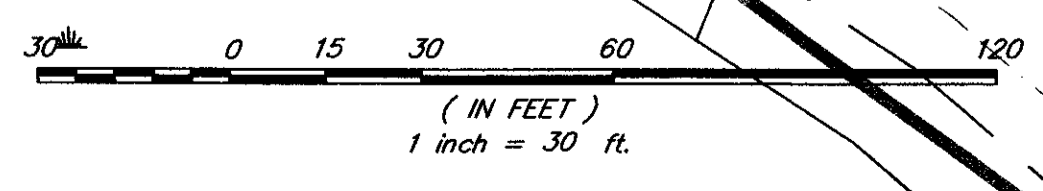
REVISIONS
 NO. DATE
 17 OF 28

RESIGNED: MEL
 DRAWN: MEL
 CHECKED: TEB
 APPROVED: TEB
 SCALE: 1"=30'
 DATE: 29 JANUARY 2002
 PROJECT NO.: 01-087
 SHEET 17 OF 28

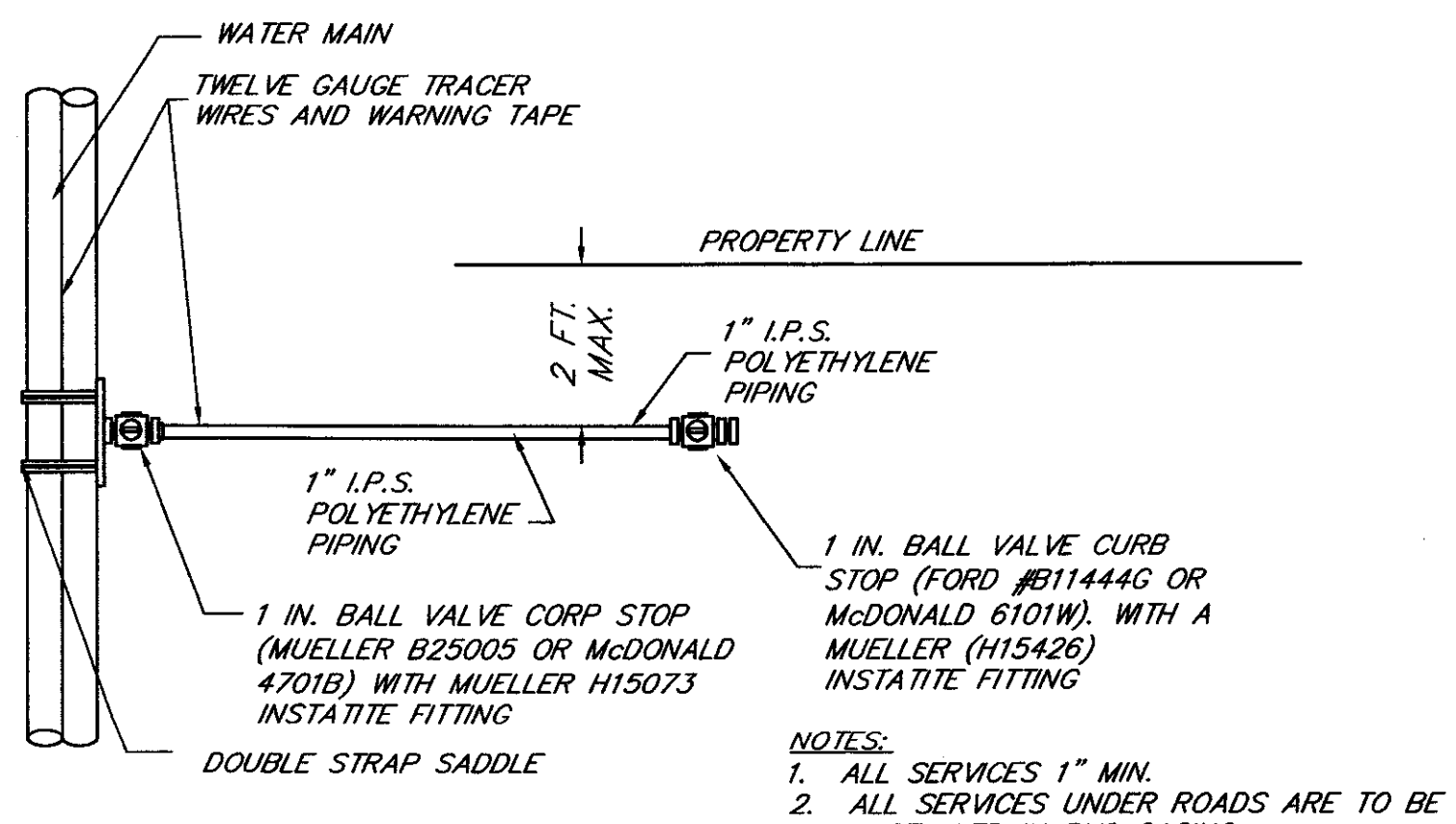
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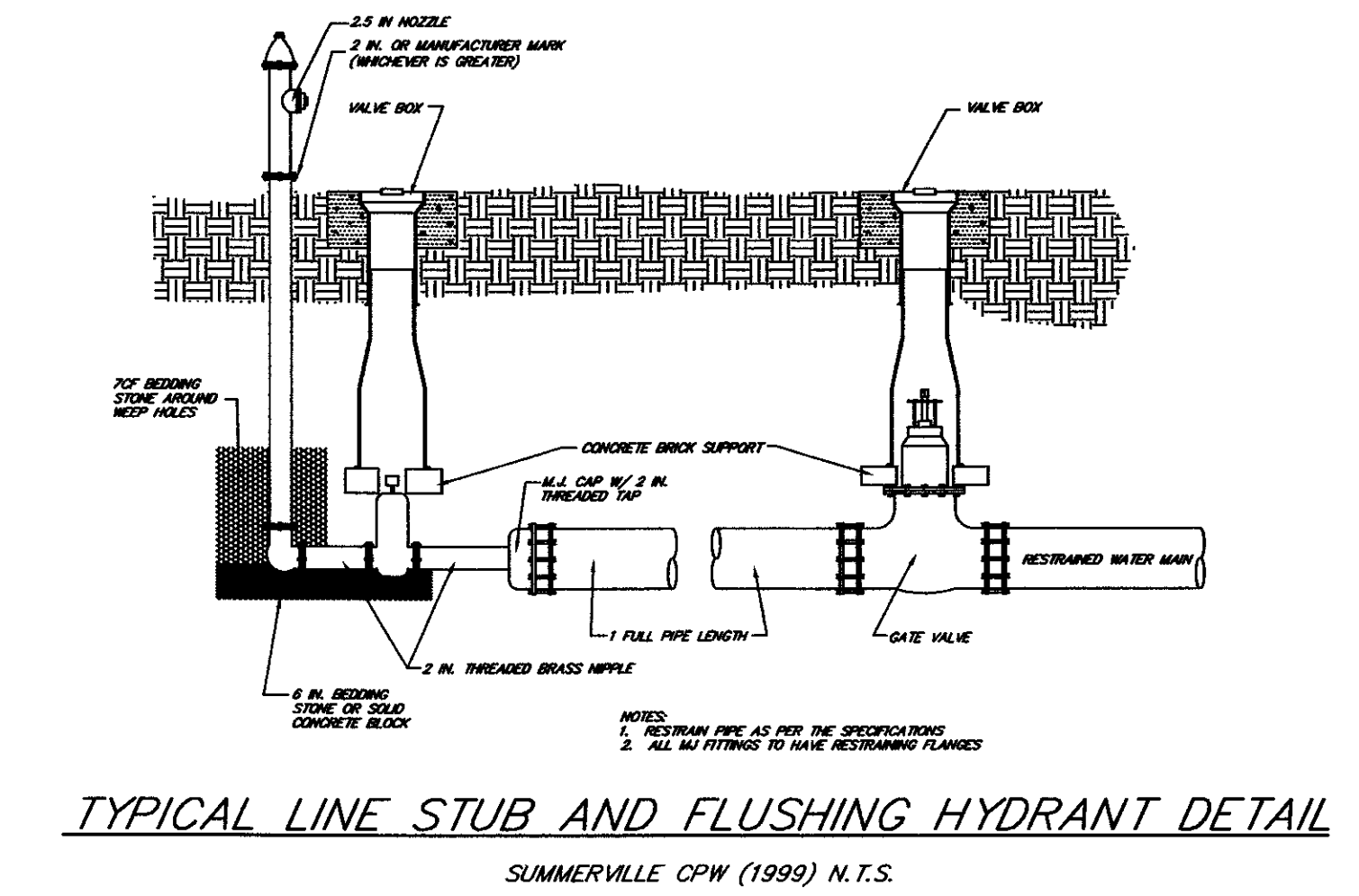
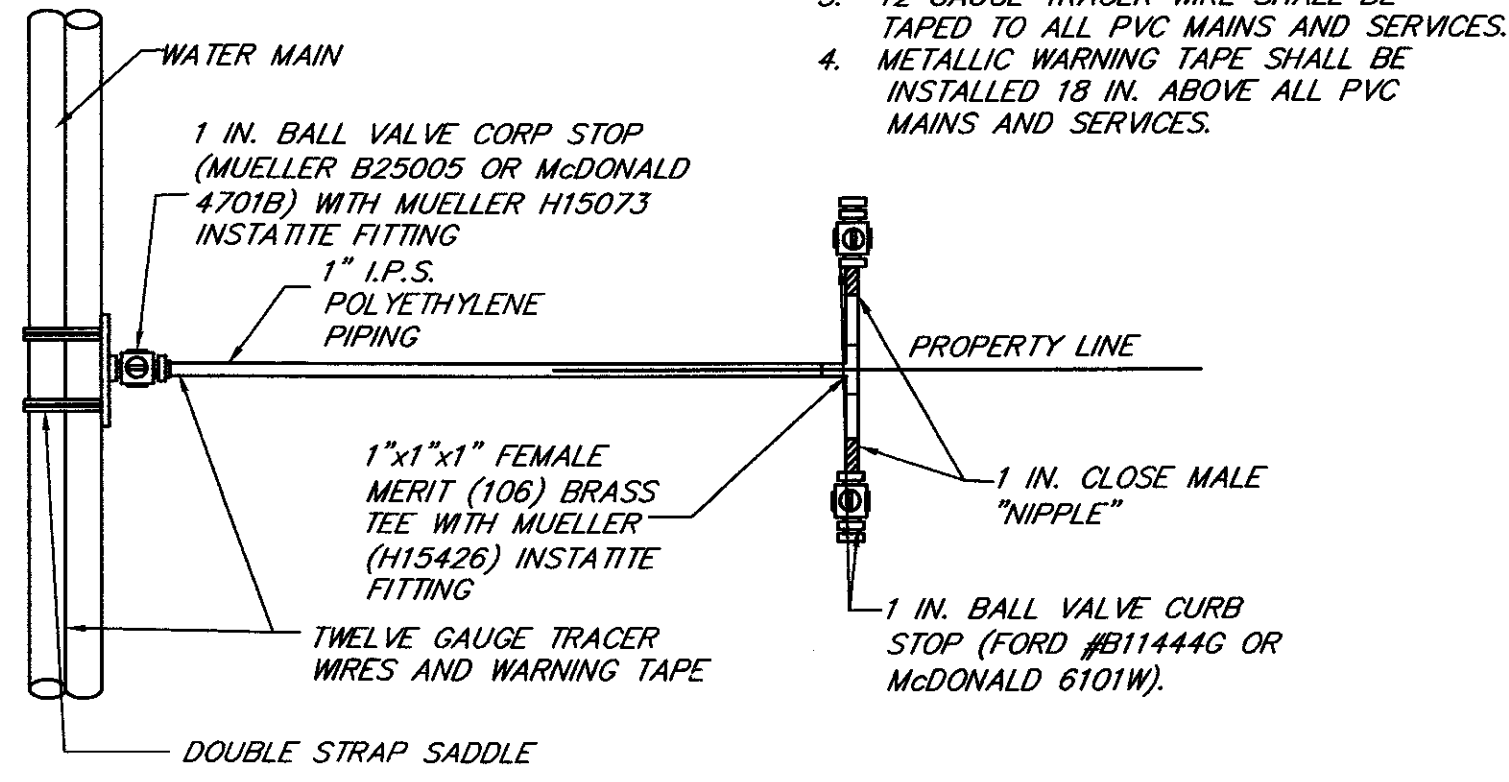
A GPS location system for community and job safety.



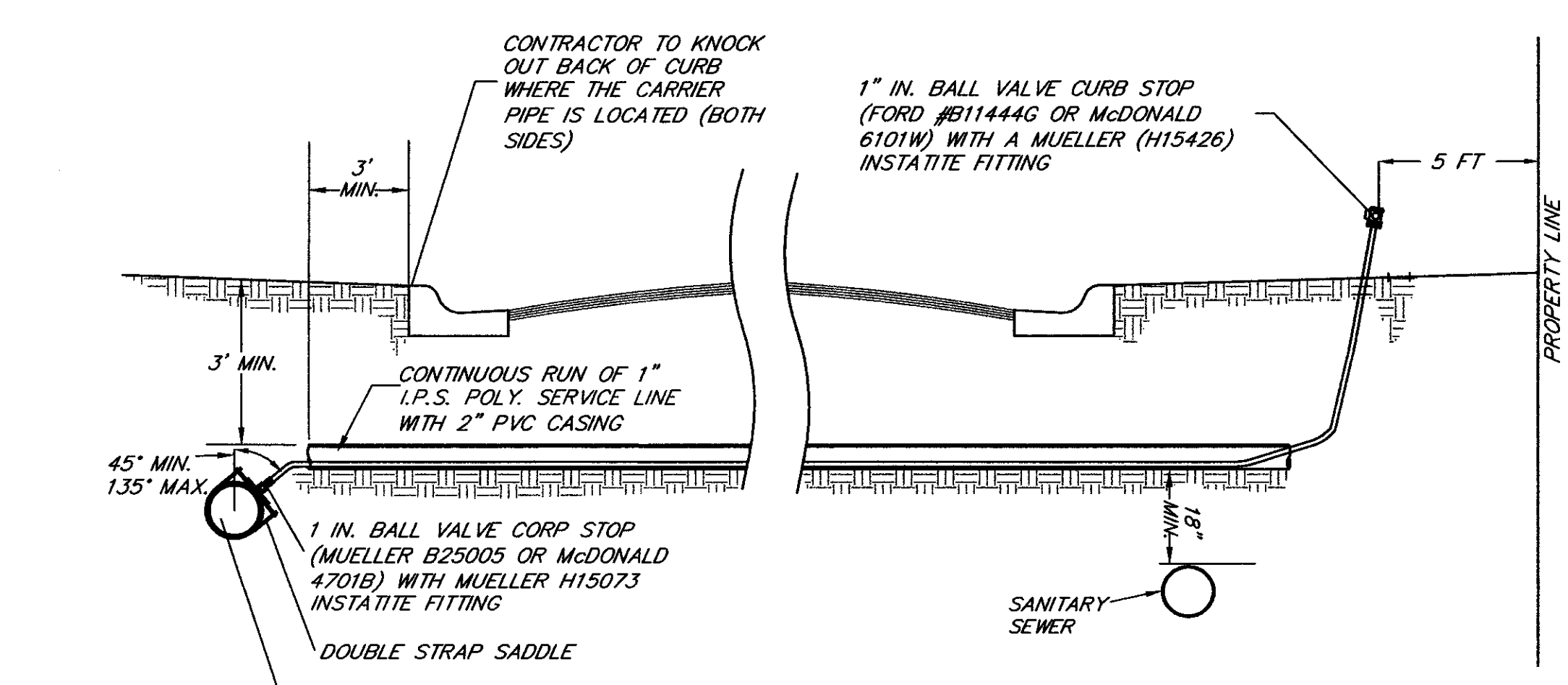
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TYPICAL WATER SERVICE - PLAN VIEW
N.T.S.



TYPICAL LINE STUB AND FLUSHING HYDRANT DETAIL
SUMMERVILLE CPW (1999) N.T.S.



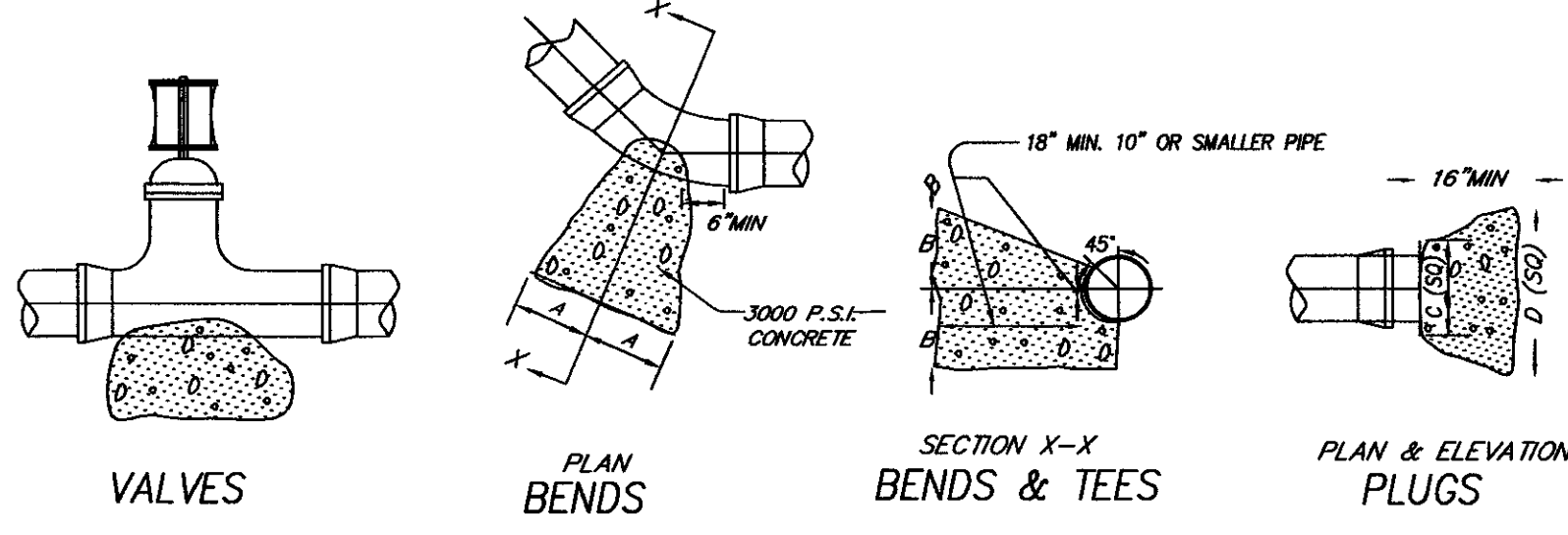
TYPICAL DOMESTIC WATER SERVICE CARRIER PIPE FOR LONG SIDE SERVICES
N.T.S.

- CONSTRUCTION NOTES:**
- PIPE FITTINGS, PACKING, JOINTING MATERIALS, VALVES AND FIRE HYDRANTS SHALL CONFORM TO SECTION C OF THE AMERICAN WATER WORKS ASSOCIATION (AWWA) STANDARDS. ALL MATERIALS OR PRODUCTS WHICH COME INTO CONTACT WITH DRINKING WATER SHALL MEET SOPW SPECIFICATIONS & BE CERTIFIED AS MEETING THE SPECIFICATIONS OF THE AMERICAN NATIONAL STANDARD INSTITUTE/NATIONAL SANITATION FOUNDATION STANDARD 61, DRINKING WATER SYSTEM COMPONENTS - HEALTH EFFECTS.
 - CONSTRUCTION SPECIFICATIONS SHALL INCORPORATE THE PROVISIONS OF SECTION C OF THE AMERICAN WATER WORKS ASSOCIATION (AWWA) STANDARDS, SOPW SPECIFICATIONS AND/OR MANUFACTURER'S RECOMMENDED INSTALLATION PROCEDURES. THE MOST STRINGENT STANDARD SHALL PREVAIL.
 - A CONTINUOUS AND UNIFORM BEDDING SHALL BE PROVIDED IN THE TRENCH FOR ALL BURIED PIPE. BACK-FILL MATERIAL SHALL BE TAMPED IN LAYERS AROUND THE PIPE AND TO A SUFFICIENT HEIGHT ABOVE THE PIPE TO ADEQUATELY SUPPORT AND PROTECT THE PIPE. STONES, OTHER THAN CRUSHED BEDDING, SHALL NOT COME IN CONTACT WITH THE PIPE AND SHALL NOT BE WITHIN SIX (6) INCHES OF THE PIPE.
 - ALL WATER MAINS SHALL BE PROVIDED WITH A MINIMUM THIRTY-SIX (36) INCHES OF COVER.
 - ALL TEES, BENDS, PLUGS AND HYDRANTS ON LINES TWO INCHES IN DIAMETER AND LARGER SHALL BE PROVIDED WITH REACTION BLOCKING, THE RODS OR OTHER APPROVED RESTRAINING METHODS TO PREVENT MOVEMENT.
 - WATER LINE PRESSURE TEST @ 150 PSI SHALL BE HELD FOR A MINIMUM OF TWO HOURS WITH A REPRESENTATIVE FROM SOPW PRESENT. FINAL INSPECTION SHALL NOT BE SCHEDULED UNTIL ASBUILT DRAWINGS ARE PREPARED.
 - CHLORINATION RATES AND SAMPLING FOR DISINFECTION OF WATER MAIN TO BE DONE IN ACCORDANCE WITH SUMMERVILLE CPW ENGINEERING MANUAL, SECTION II PARAGRAPH 2.3.17, PAGES 19-20.
 - HYDRANT LEADS SHALL BE A MINIMUM OF SIX (6) INCHES IN DIAMETER. AUXILIARY GATE VALVES SHALL BE INSTALLED IN ALL HYDRANT LEADS.
 - NO VALVES TO BE CONSTRUCTED UNDER CURB.
 - USE MECHANICAL JOINT BENDS TO GET PIPE AROUND CUL-DE-SACS AND CURVES.
 - TAPE #12 SINGLE STRAND TO ALL MAINS AND SERVICES. INSTALL 3" METALLIC WARNING TAPE 18" ABOVE ALL MAINS AND SERVICES.
 - LOCATE FIRE HYDRANTS & VALVES ON OR AS CLOSE TO PROPERTY LINE AS POSSIBLE.
 - ALL UTILITIES TO BE INSTALLED BEFORE CURB/GUTTER OR SABC INSTALLED.
 - UTILITY CONTRACTOR SHALL RECOMPACT TRENCH CUTS IN ROADWAY UNDER STRICT COMPACTION CONTROL SUPERVISED BY THE ENGINEER, AND SOPW REPRESENTATIVES.
 - CONTRACTORS SHALL VERIFY ALL EXISTING UTILITIES AS TO LOCATION, SIZE, ELEVATION AND MATERIAL PRIOR TO ANY CONSTRUCTION. CONTRACTOR SHALL ALSO NOTIFY ALL UTILITY COMPANIES OR AGENCIES THAT WILL BE AFFECTED DURING CONSTRUCTION OF THIS PROJECT PRIOR TO START.
 - CONTRACTOR WILL BE RESPONSIBLE FOR SECURING ALL NECESSARY PERMITS, OR VERIFYING OWNER HAS OBTAINED PERMITS NEEDED FOR ALL PHASES OF CONSTRUCTION PRIOR TO START OF PROJECT.
 - IN THE EVENT OF A CONFLICT WITH WATER, SEWER, DRAINAGE, OR OTHER UTILITY LINES, THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER AND FIELD ADJUST TO AVOID CONFLICTS.
 - ALL SERVICES THAT RUN BENEATH PAVEMENT WILL BE PLACED IN 2" PVC CASING.
 - INSTALLATION OF THE WATER MAIN SHALL BE A MINIMUM OF 2' OFF THE BACK OF THE CURB.
 - ALL BLOCKING AND STRAPPING SHALL REMAIN OPEN FOR INSPECTION BY SOPW.
 - ALL PVC PIPE USED MUST BE C900 PVC.
 - SOPW SHALL BE NOTIFIED IN WRITING PRIOR TO START OF CONSTRUCTION.
 - WATER MAIN CONSTRUCTION SHALL NOT BE INITIATED UNTIL FINAL ROAD & R/W GRADES (±0.5') ARE ACHIEVED.
 - ALL BENDS SHALL BE MARKED WITH 2" CAPPED PVC PIPE UNTIL ASBUILT SURVEYS ARE COMPLETE.

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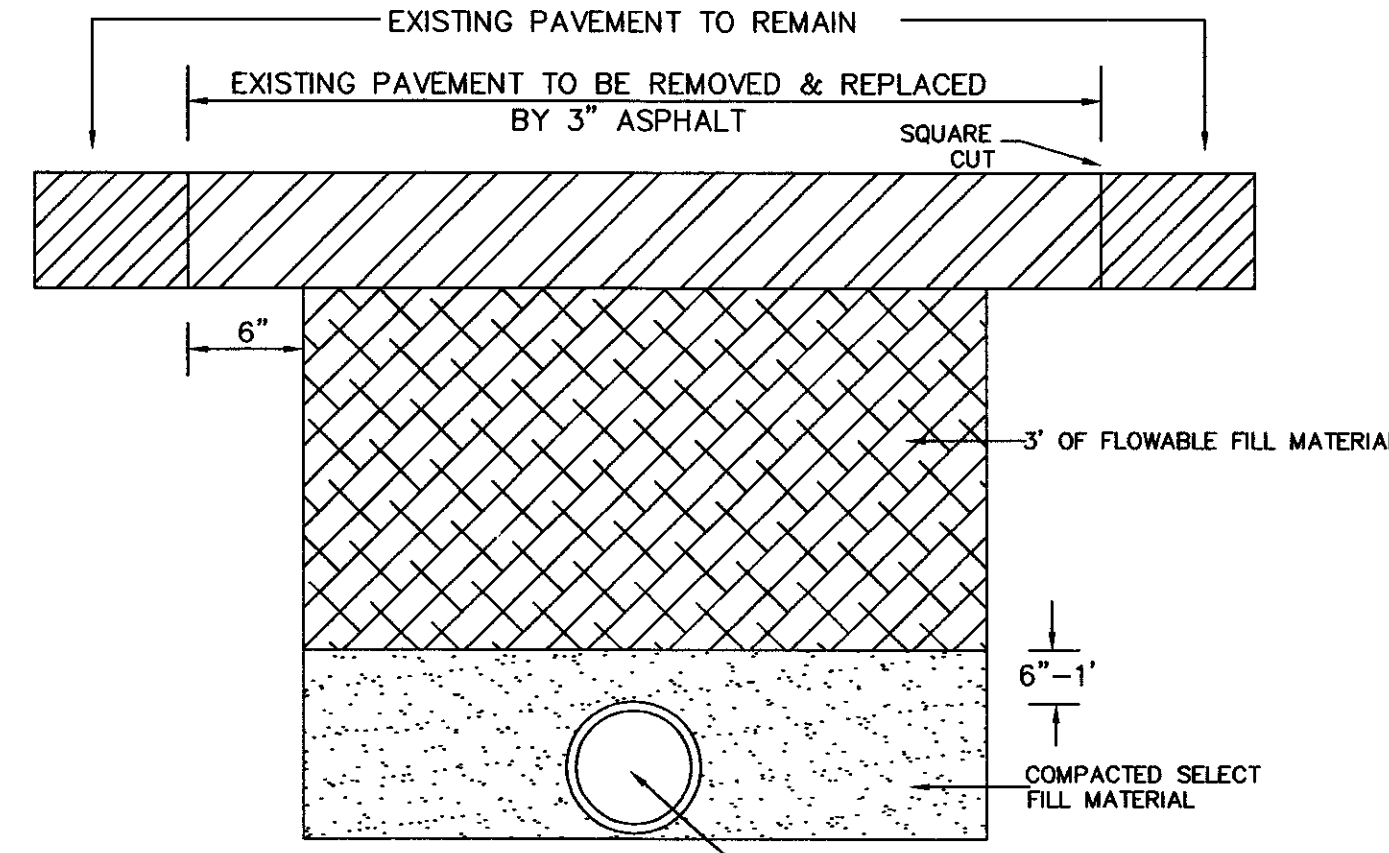
A one call system for community and job safety.



SIZE	1/4 BEND		1/8 BEND		1/16 BEND		TEES		PLUGS	
	A	B	A	B	A	B	A	B	C	D
4" & SMALLER	6"	10"	5"	10"	3"	6"	5"	12"	6"	14"
6"	16"	10"	9"	10"	6"	8"	10"	12"	10"	21"
8"	22"	13"	12"	13"	8"	10"	13"	16"	12"	29"

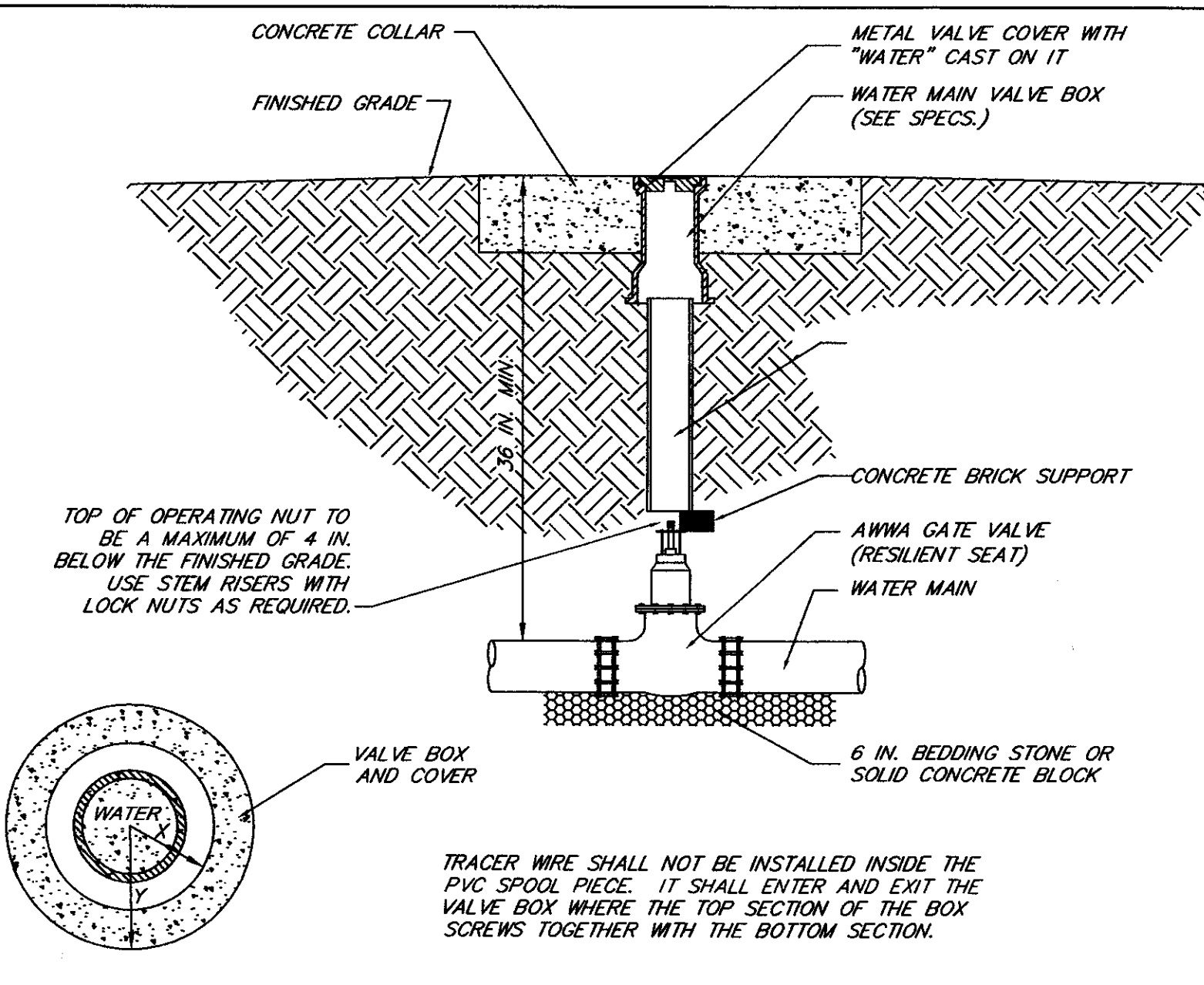
TYPICAL THRUST BLOCK LOCATIONS FOR HORIZONTAL CHANGES IN DIRECTION

- NOTES:
- CONCRETE TO BE FORMED WITH 3/4" PLYWOOD.
 - BENDS AND/OR FITTINGS TO BE WRAPPED WITH POLYETHYLENE.
 - 6" STONE OR SOLID BLOCK REQUIRED UNDER BENDS / FITTINGS.
 - FITTINGS WITHIN 10' OF EACH OTHER SHALL BE RODDED TOGETHER WITH 3/4" ALL THREAD ROD (2 MIN.).
 - RESTRAINING FLANGES REQUIRED ON ALL FITTINGS. ALL FITTINGS TO BE M.J.
 - ALL BENDS SHALL BE MARKED WITH PVC PIPES TO GROUND SURFACE UNTIL AFTER AS-BUILT SURVEY IS COMPLETED.



TYPICAL ROAD CUT DETAIL
N.T.S.

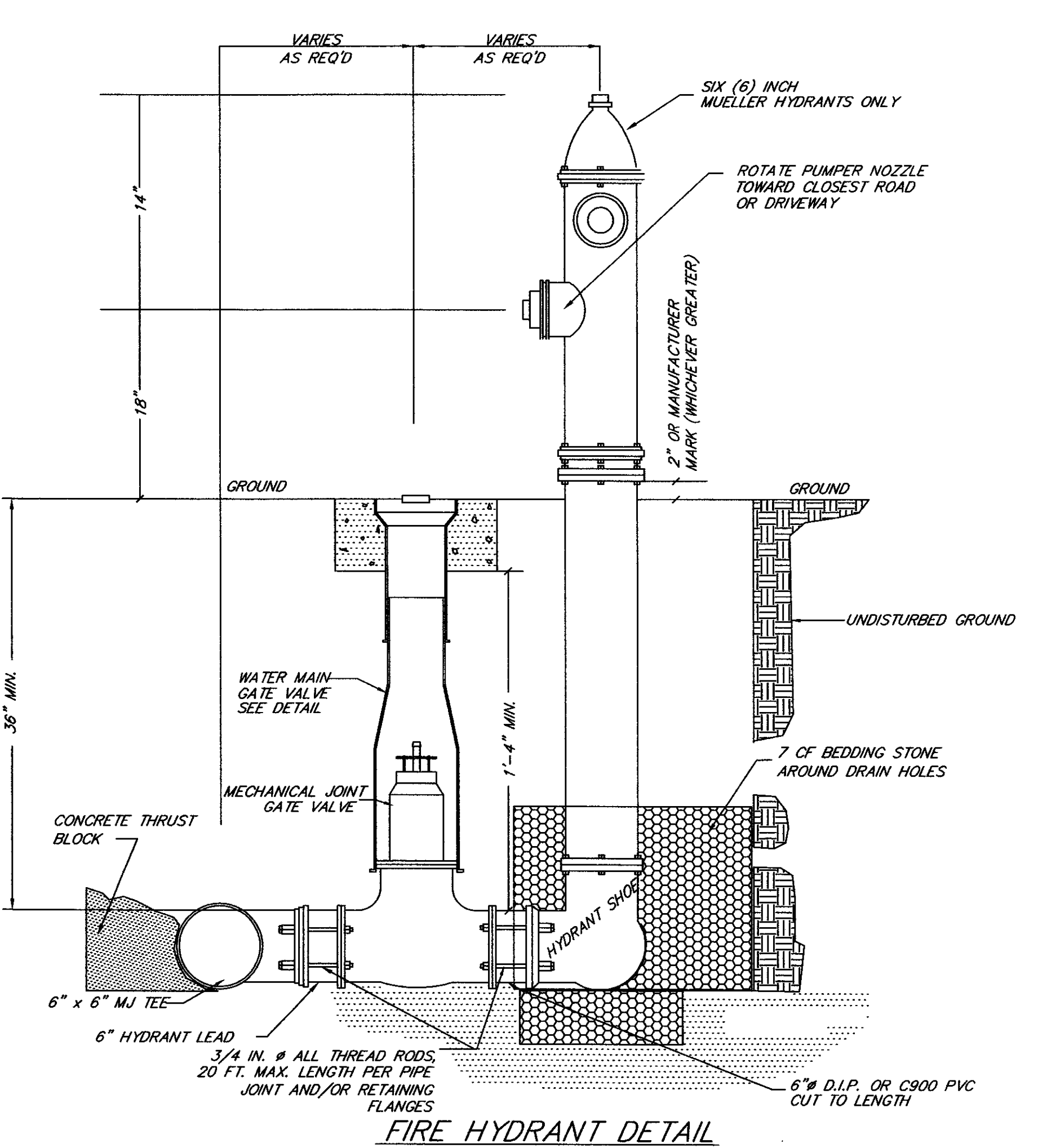
- STEEL PLATES SECURED WITH ASPHALT "RAMPS" SHALL BE REQUIRED UNTIL THE FILL HAS SET
- ASPHALT SHALL BE TYPE 1B



TYPICAL GATE VALVE DETAIL
N.T.S.

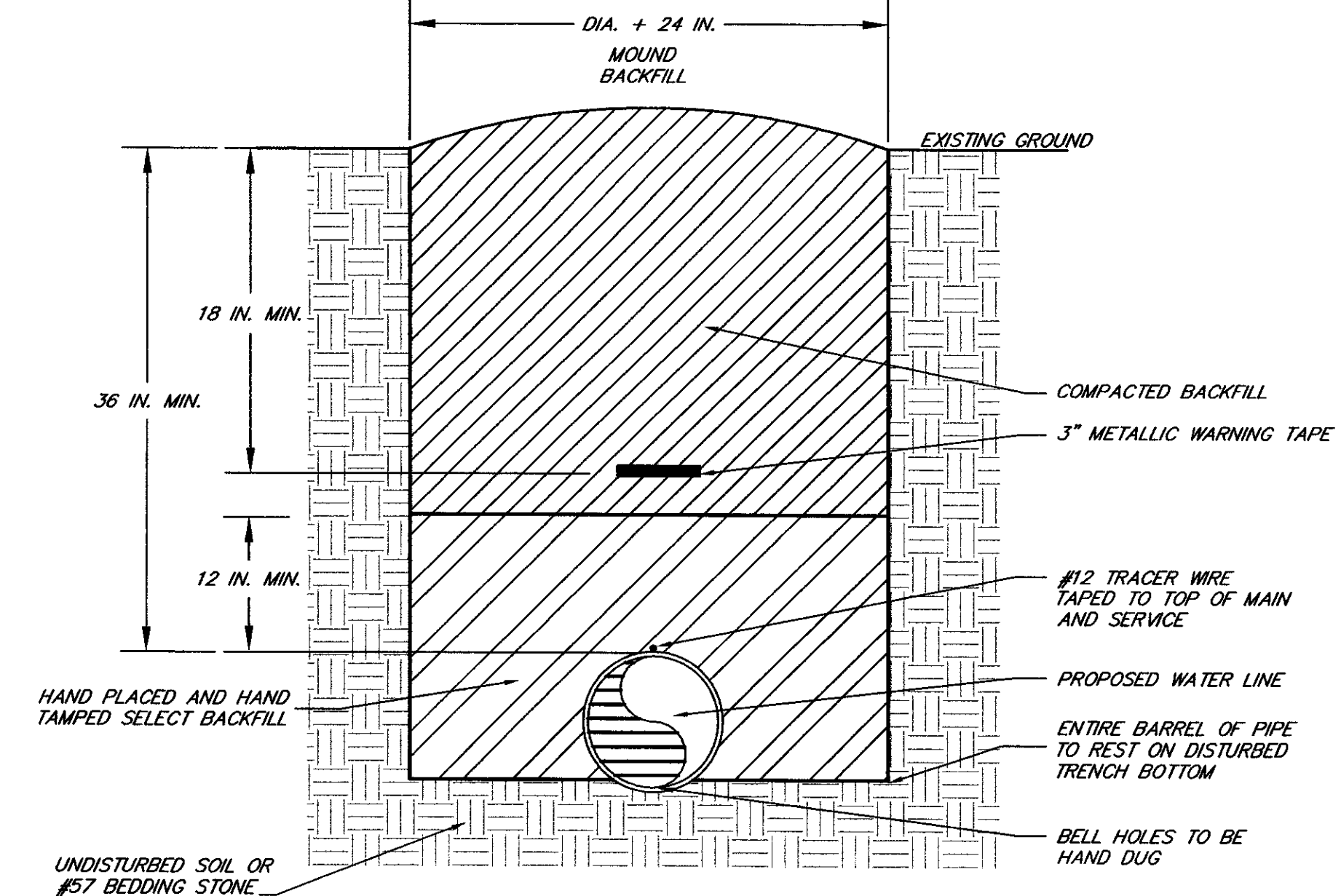
X=DIA. OF BOX + 2" MIN.
Y=16" MINIMUM
Z=MINIMUM 2" THICK

- NOTES:
- PVC SPOOL PIECE CUT TO DESIRED LENGTH. PIPE SHALL STOP EVENLY WITH THE BOTTOM OF THE OPERATING NUT AND SHALL NOT REST ON THE BODY OF THE VALVE. SPOOL PIECE TO BE CUT FROM 6 IN. WATER MAIN PIPE.

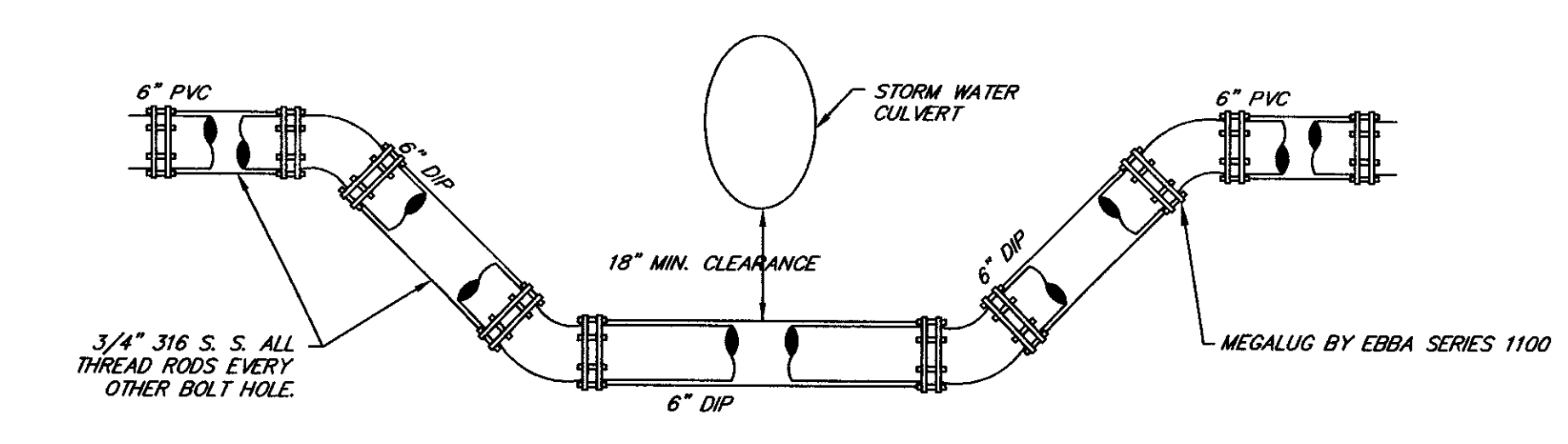


FIRE HYDRANT DETAIL
N.T.S.

- NOTES:
- HYDRANTS SHALL BE PAINTED YELLOW WITH WHITE CAPS & BONNET. DO NOT PAINT OPERATING NUT OR OIL RESERVOIR.
 - ALL MJ FITTINGS SHALL BE RESTRAINED WITH RESTRAINING FLANGES AND ALL THREAD ROD.
 - ALL PIPE AND FITTINGS CONTACT WITH CONCRETE BEDDING SHALL BE WRAPPED IN POLYETHYLENE.
 - A MINIMUM THICKNESS OF 6 IN. BEDDING STONE OR A SOLID CONCRETE BLOCK IS REQUIRED UNDER ALL FITTINGS, VALVES AND HYDRANTS.



TYPICAL WATER PIPE BEDDING DETAIL
N.T.S.



TYPICAL WATER/STORM DRAIN CROSSING DETAIL
N.T.S.

REVISIONS

DATE

NO.

TITLE

WATER DETAILS

PHASE II OF ARBOR OAKS SUBDIVISION

LOCATED IN

THE TOWN OF SUMMERVILLE

DORCHESTER COUNTY, SOUTH CAROLINA

NO. 00016

CERTIFIED DATE OF

1425 Belle Oaks Drive
South Carolina 29405
Phone: (843) 740-7700
Fax: (843) 740-7707
info@tricoengineering.com

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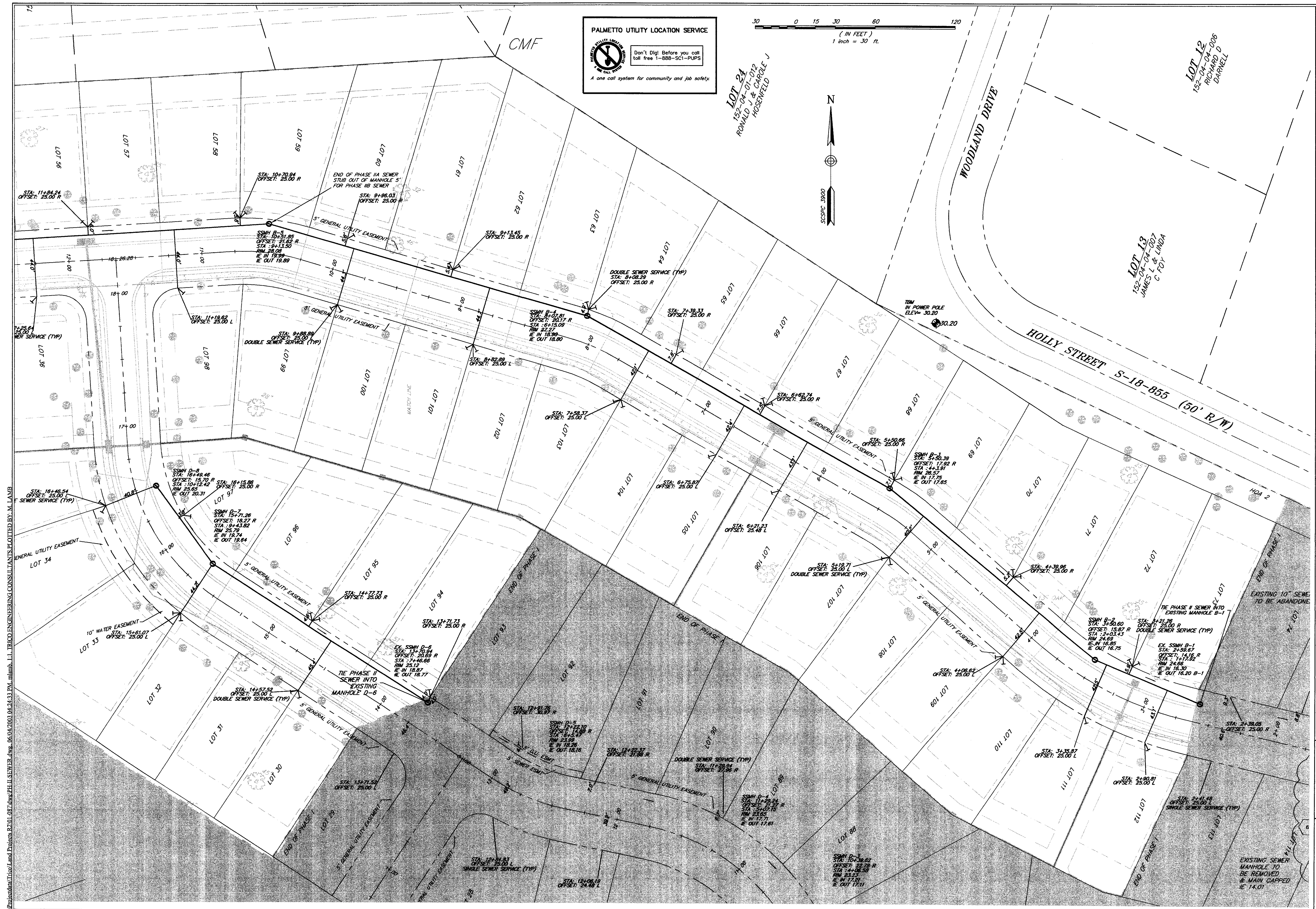
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SCALE: N.T.S.

DATE: 29 JANUARY 2002

PROJECT NO.: 01-087

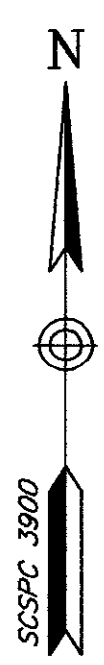
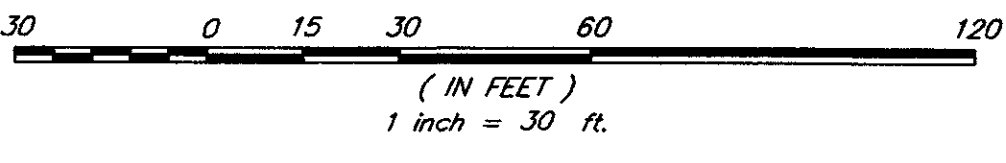
SHEET 18 OF 28



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LOT 24
152-04-01-012
RONALD J & CAROLE J
HOSENFELD J

LOT 12
152-04-04-006
RICHARD D
DARNELL

LOT 13
152-04-04-007
JAMES L & LINDA
C FOY

DESIGNED: MEL	DATE: 29 JANUARY 2002
DRAWN: MEL	PROJECT NO.: 01-087
CHECKED: TFB	SHEET 19 OF 28
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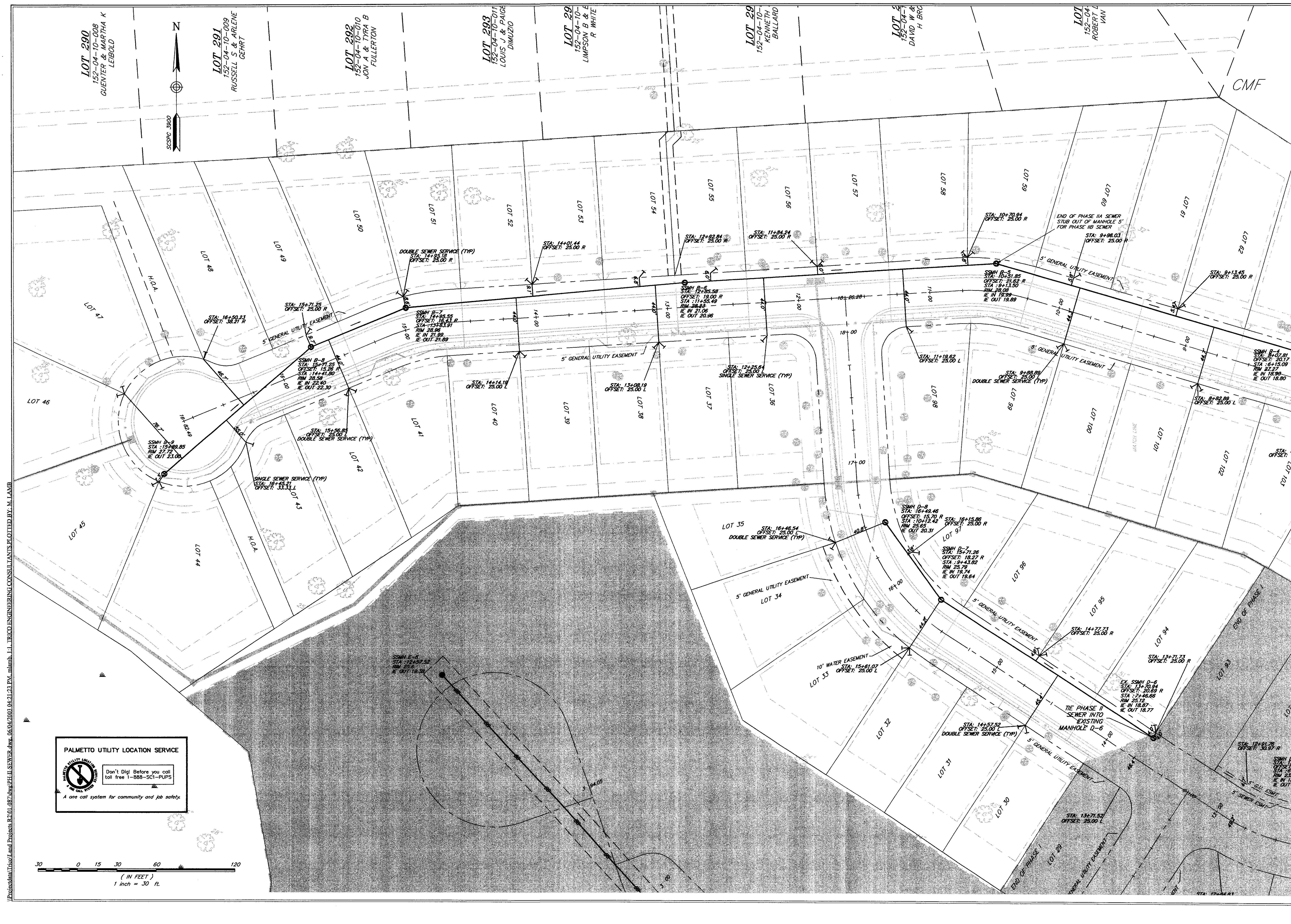
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REVISIONS

NO.	DATE	REVISIONS
1	6/24/03	REVISED MP'S B-2 THRU B-3 R/W ELEVATIONS

TITLE
SEWER PLAN
PHASE II OF ARBOR OAKS SUBDIVISION
LOCATED IN
THE TOWN OF SUMMERVILLE
DORCHESTER COUNTY, SOUTH CAROLINA

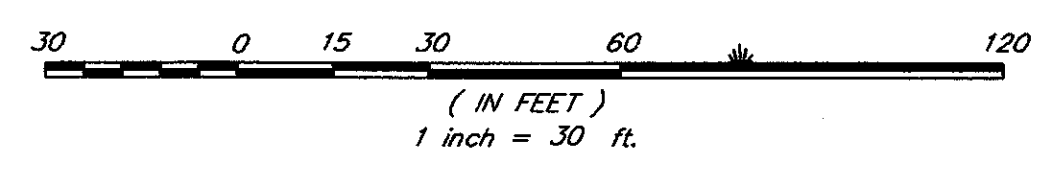


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PALMETTO UTILITY LOCATION SERVICE

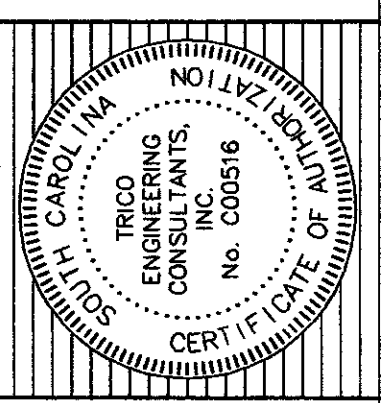
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NO.	DATE	REVISIONS
1	6/04/03	REVISED MP. B-6 R/W ELEVATION

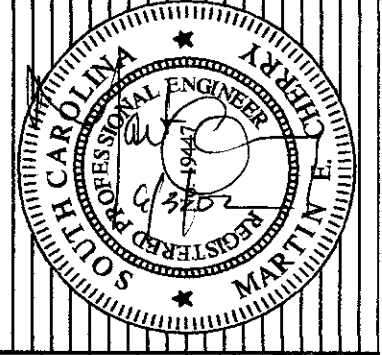
TITLE
SEWER PLAN
 PHASE II OF ARBOR OAKS SUBDIVISION
 LOCATED IN
 THE TOWN OF SUMMERVILLE
 DORCHESTER COUNTY, SOUTH CAROLINA



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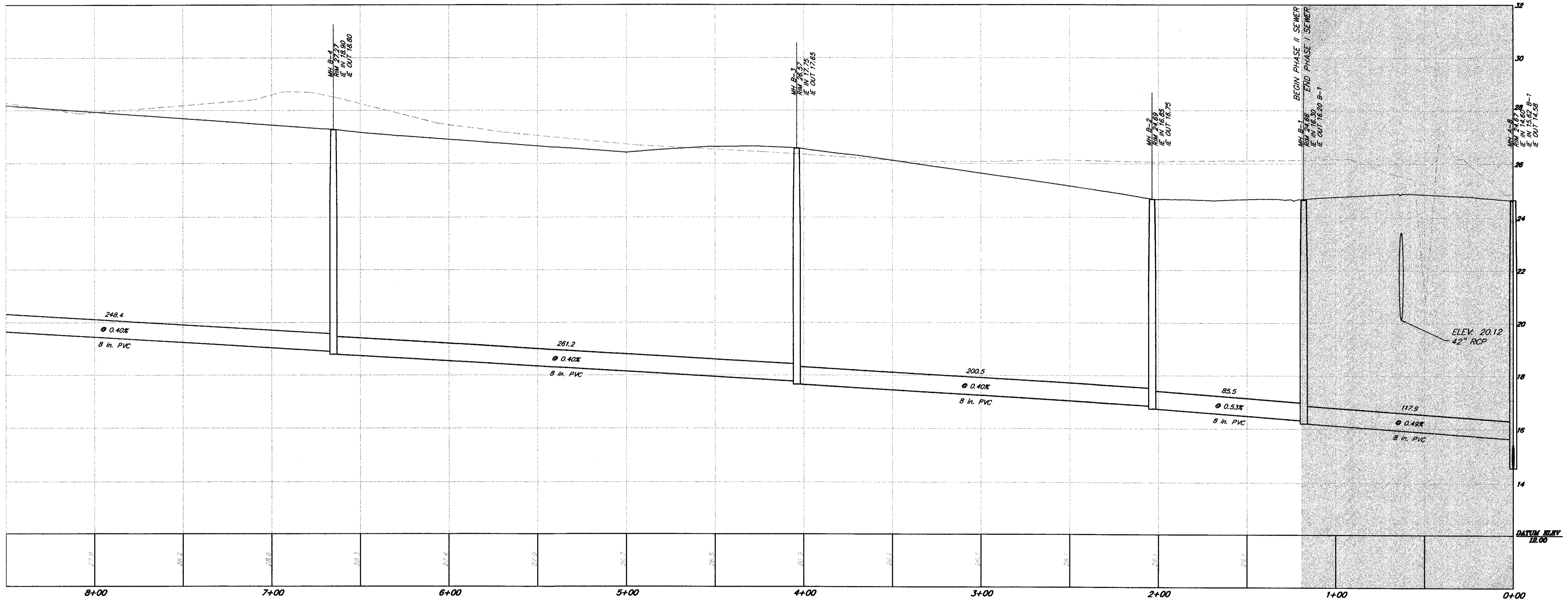
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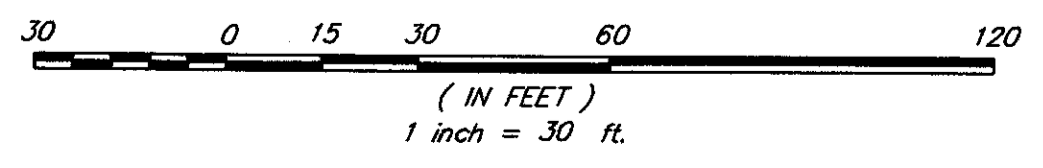


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 SCALE: 1"=30'
 DATE: 29 JANUARY 2002
 PROJECT NO.: 01-087
 SHEET 20 OF 28

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SEWER "B"
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 VERTICAL SCALE: 1"=2'

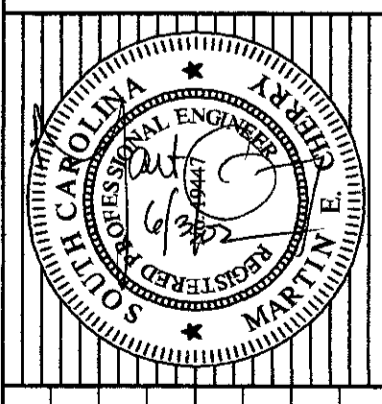


PALMETTO UTILITY LOCATION SERVICE

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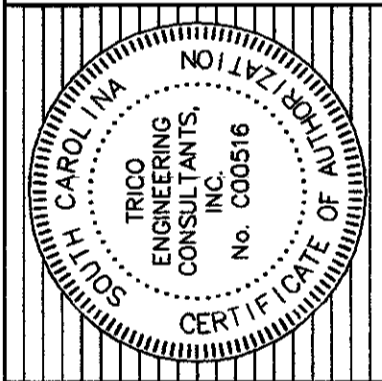
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 SHEET 21 OF 28



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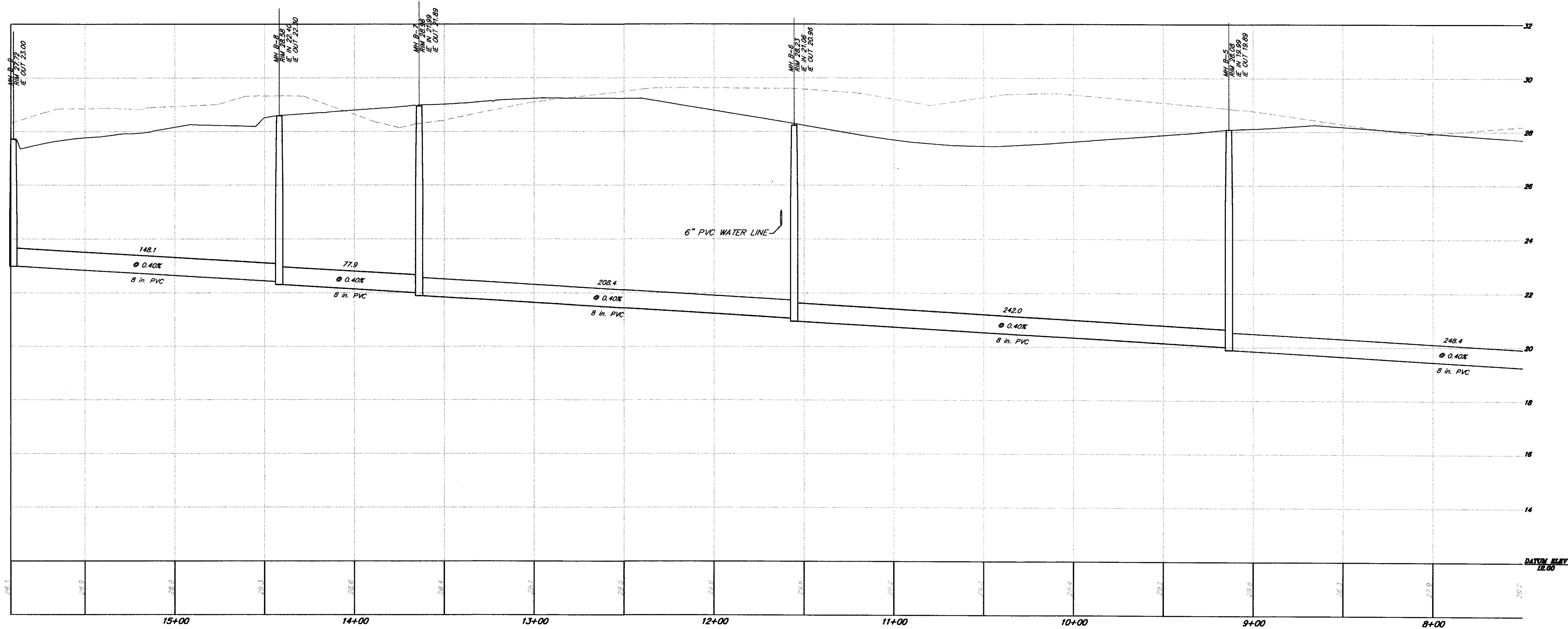
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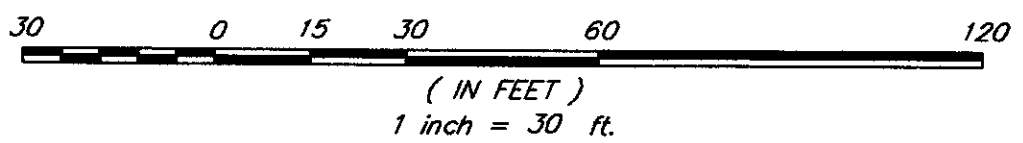
TITLE
SEWER PROFILE
 PHASE II OF ARBOR OAKS SUBDIVISION
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 DORCHESTER COUNTY, SOUTH CAROLINA

NO.	DATE	REVISIONS
1	6/24/02	REVISED MANHOLE RIM ELEVATIONS B-6 THRU B-2

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VERTICAL SCALE: 1"=2'

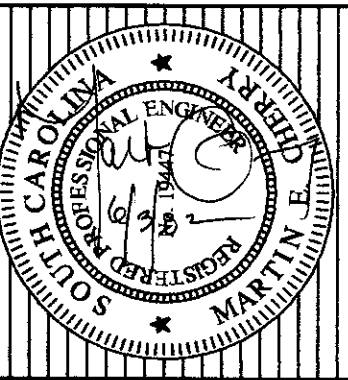


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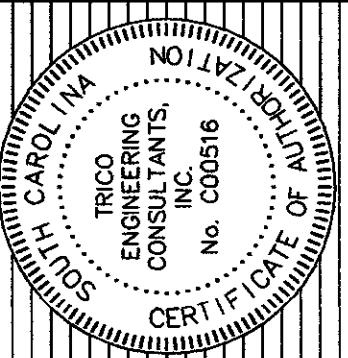
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SHEET 22 of 28



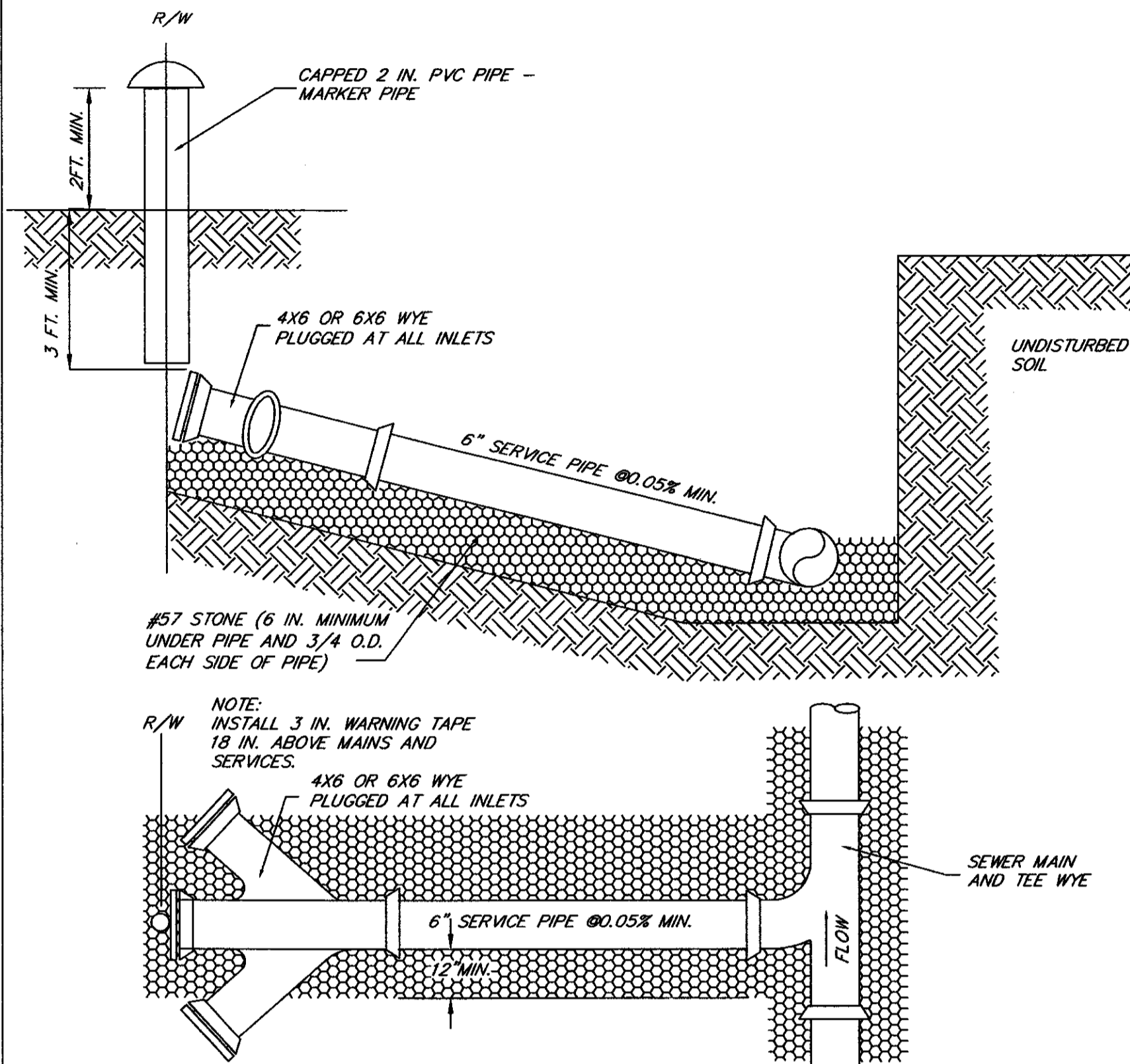
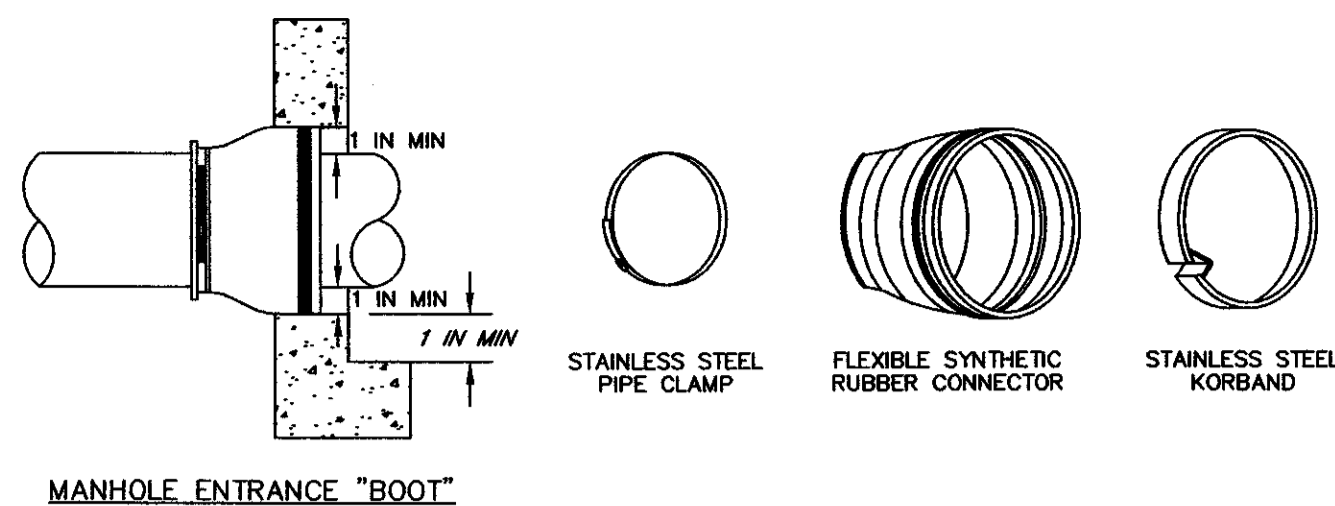
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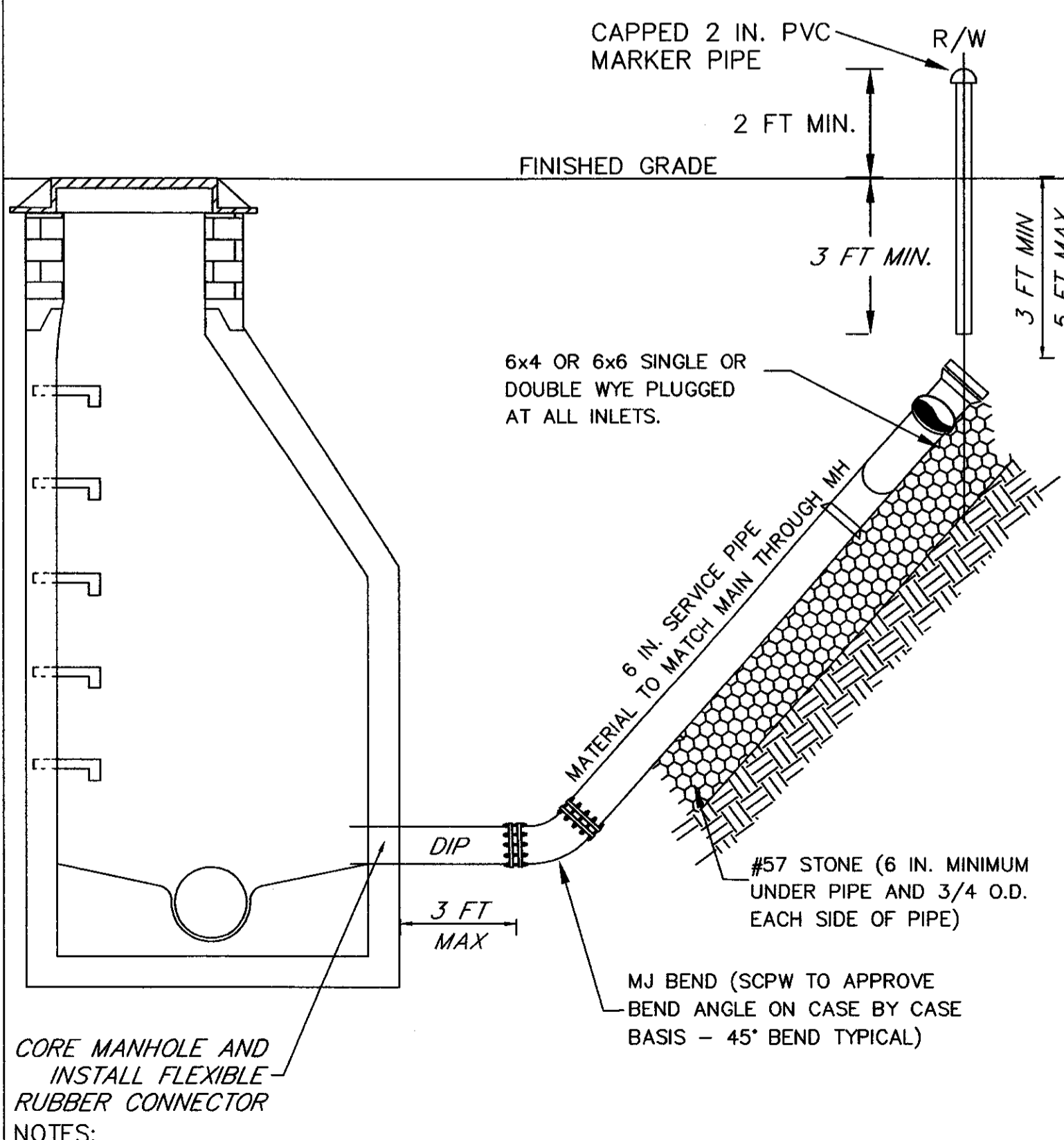
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DORCHESTER COUNTY, SOUTH CAROLINA

NO.	DATE	REVISIONS
1	6/04/03	REVISED MANHOLE RIM ELEVATIONS B-2 THRU B-6

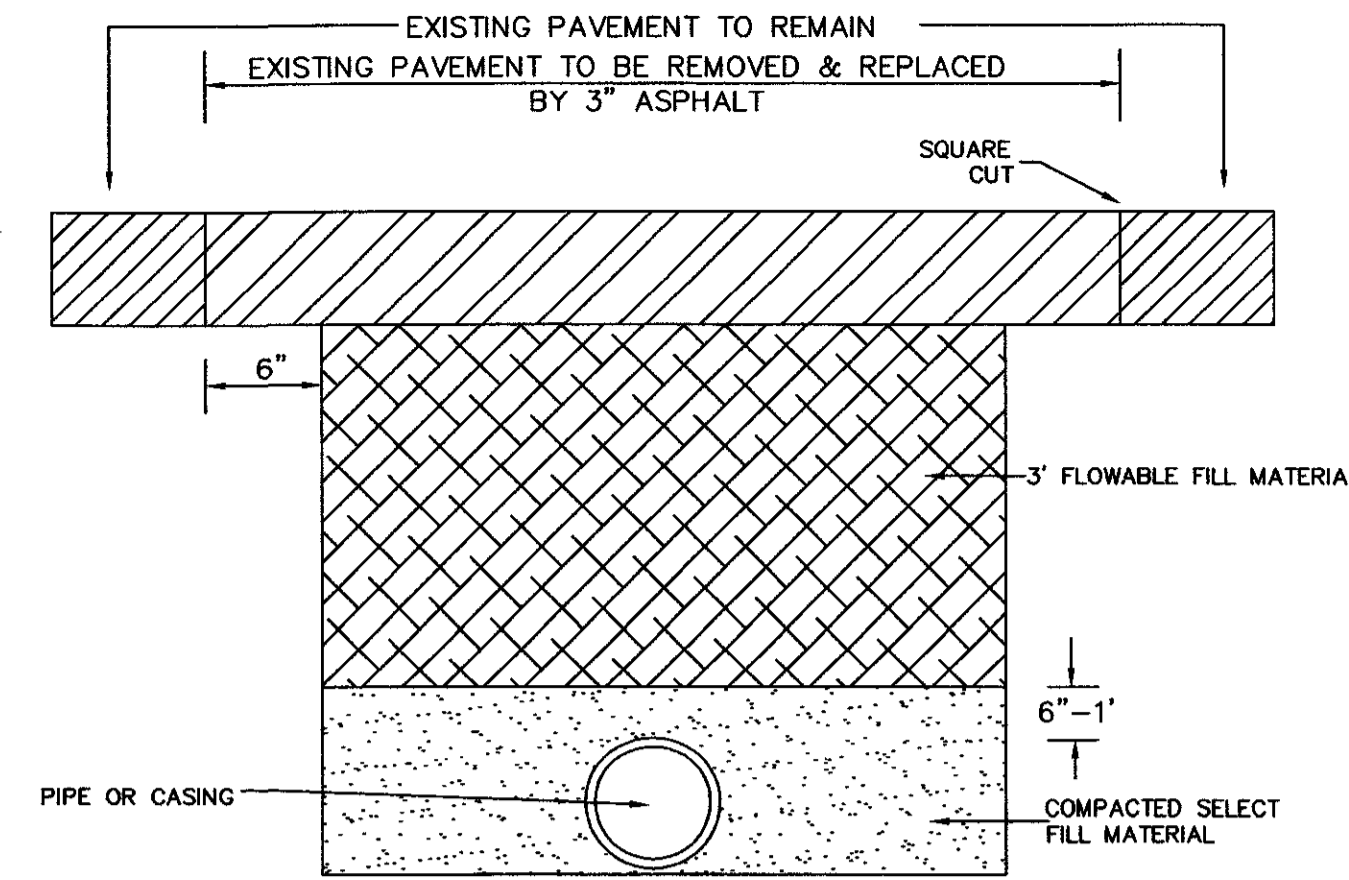


TYPICAL SEWER SERVICE CONNECTION DETAIL

SUMMERVILLE CPW (1999) N.T.S.

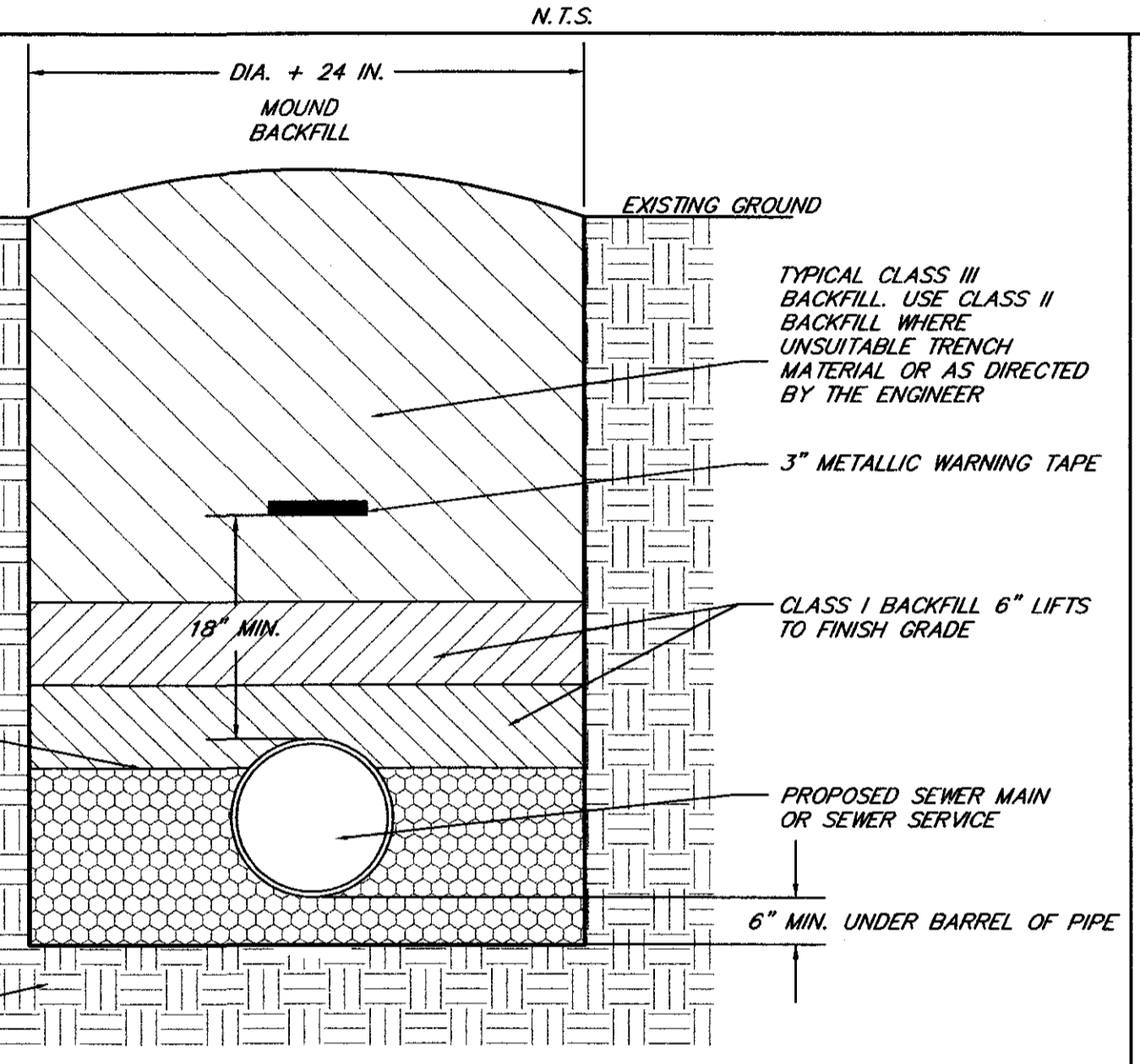


NOTES:
1. INVERT OF SERVICE SHALL BE LESS THAN 1.5 FT ABOVE THE OUTLET PIPE INVERT.
2. CHANNEL SHALL BE CONSTRUCTED TO DIVERT SERVICE FLOW TOWARD THE OUTLET PIPE.



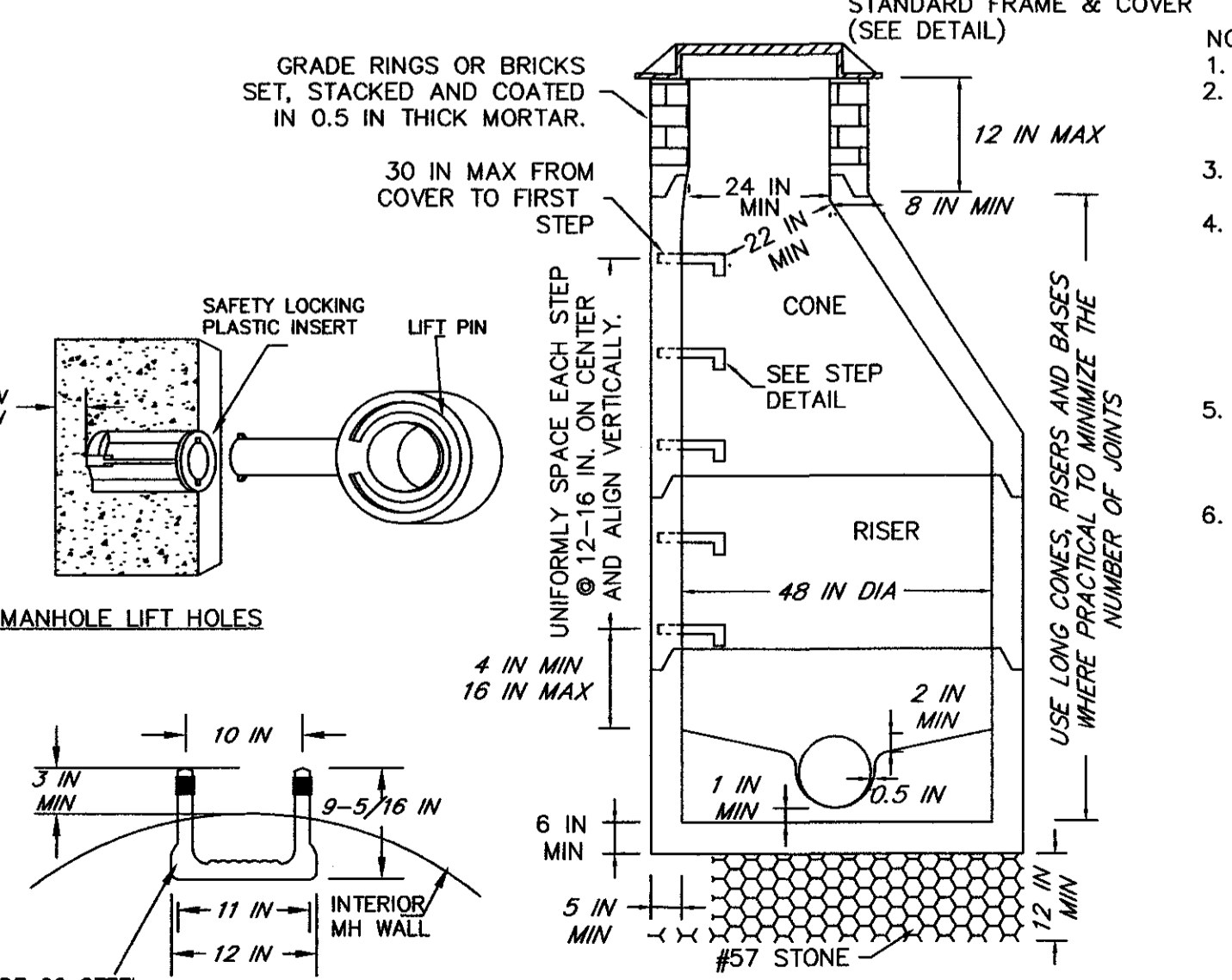
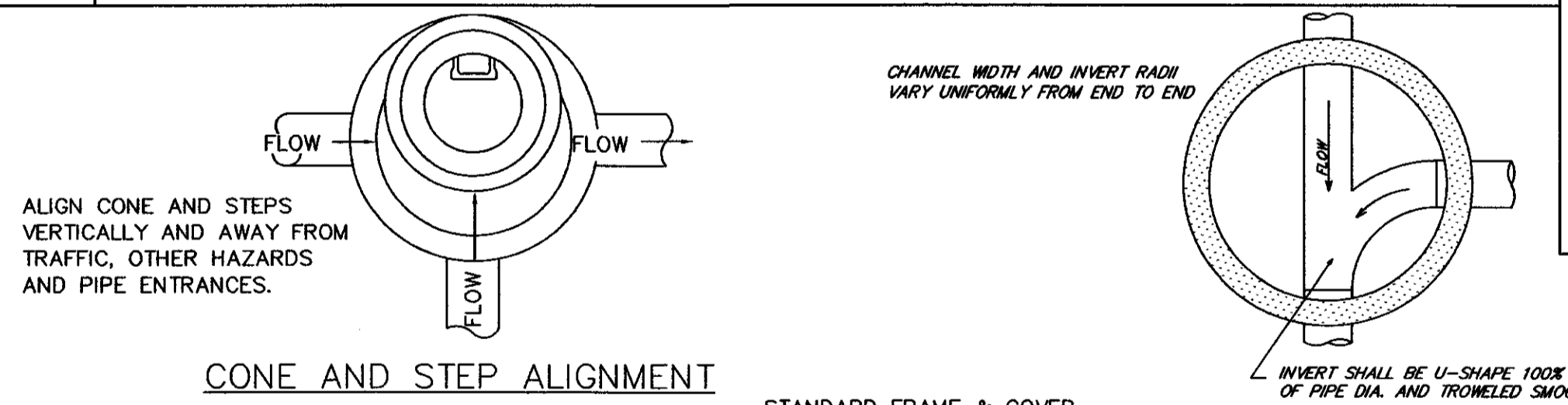
* STEEL PLATES SECURED WITH ASPHALT "RAMPS" SHALL BE REQUIRED UNTIL THE FILL HAS SET
* ASPHALT SHALL BE TYPE 1B

PIPE PLACEMENT AND BACKFILL DETAIL



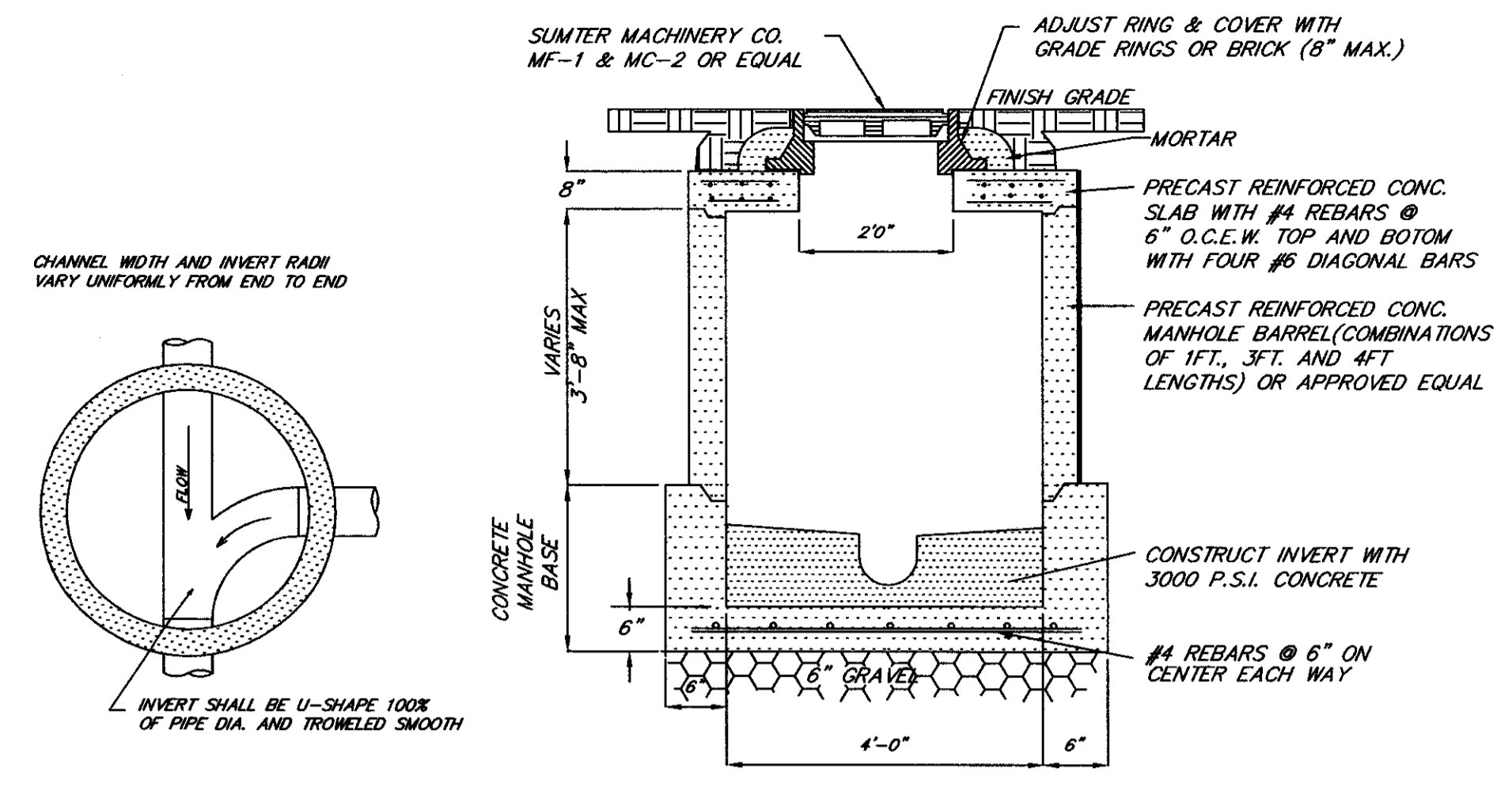
MINIMUM ACCEPTABLE BEDDING DETAIL FOR TYPICAL GRAVITY SEWER MAIN AND SERVICE

SUMMERVILLE CPW (1999) N.T.S.



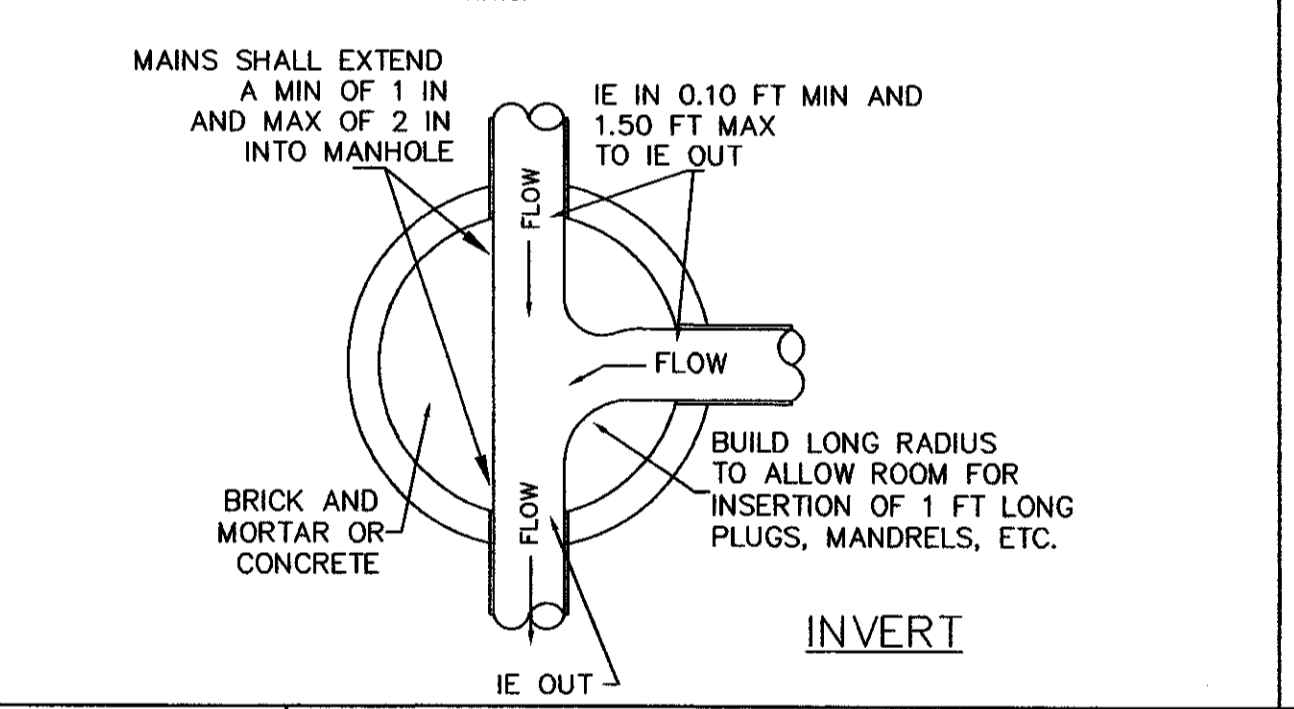
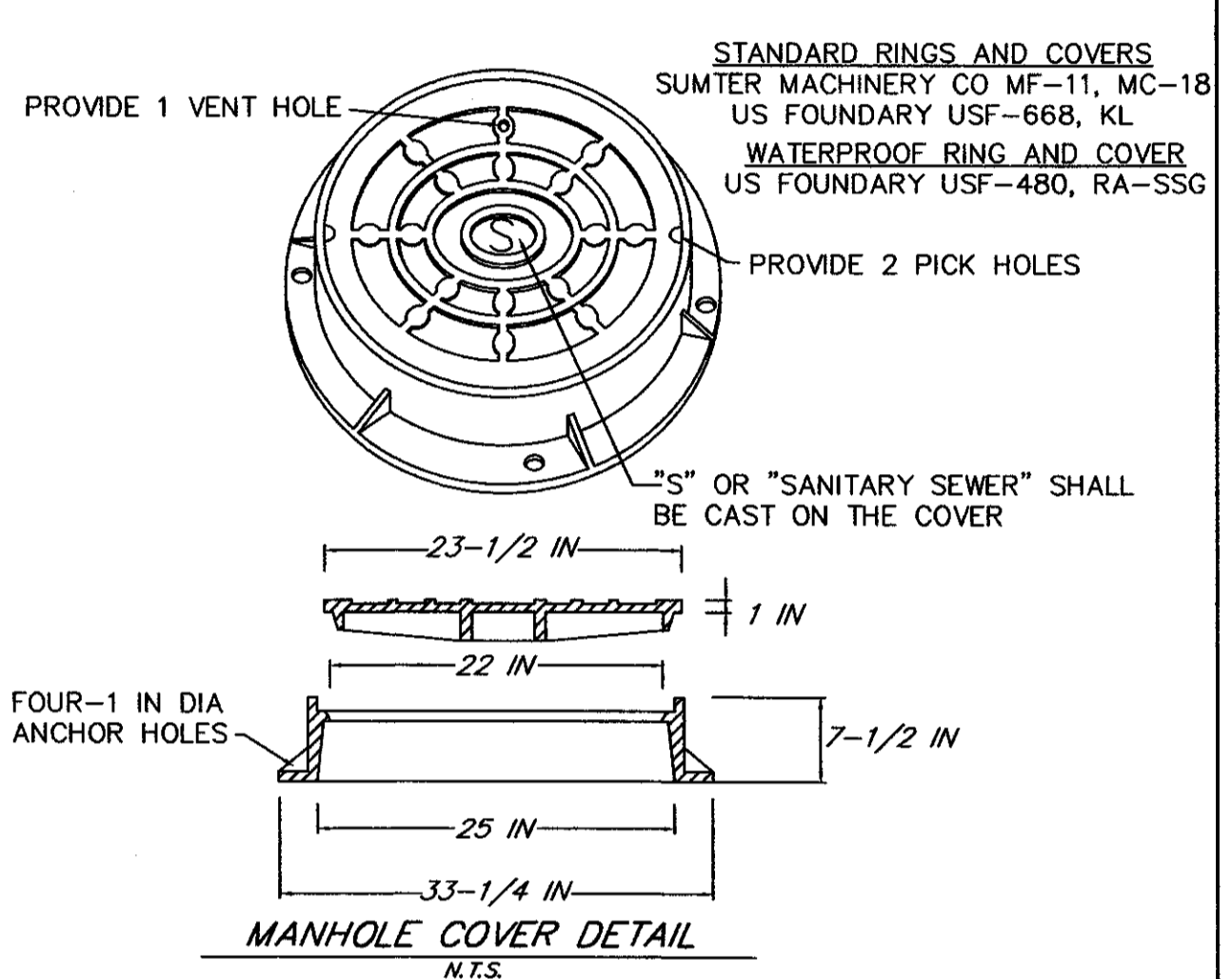
TYPICAL MANHOLE LAYOUT

N.T.S.



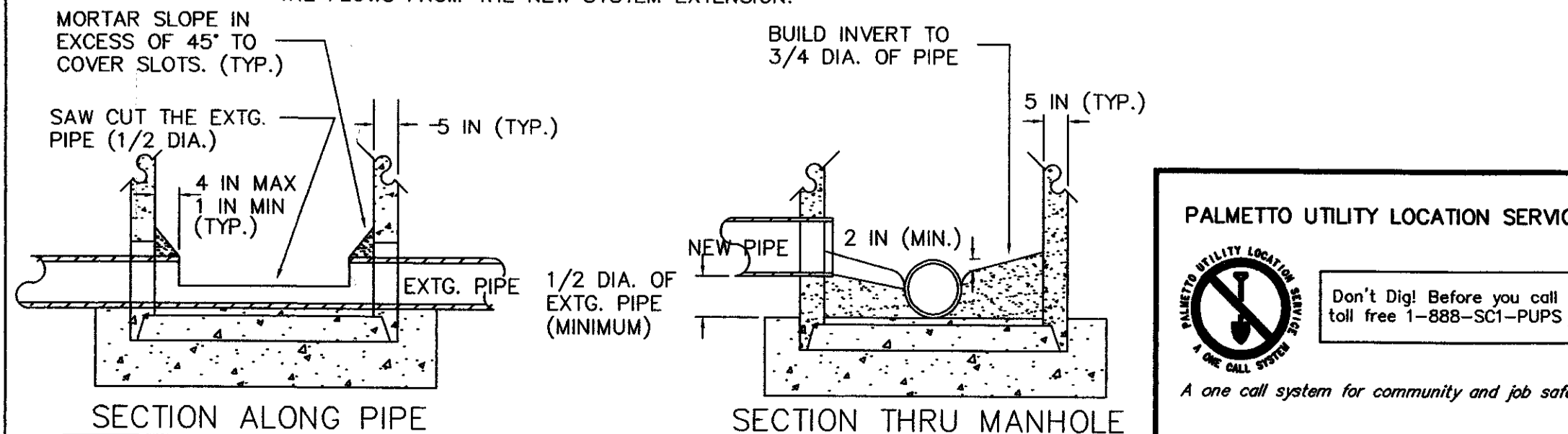
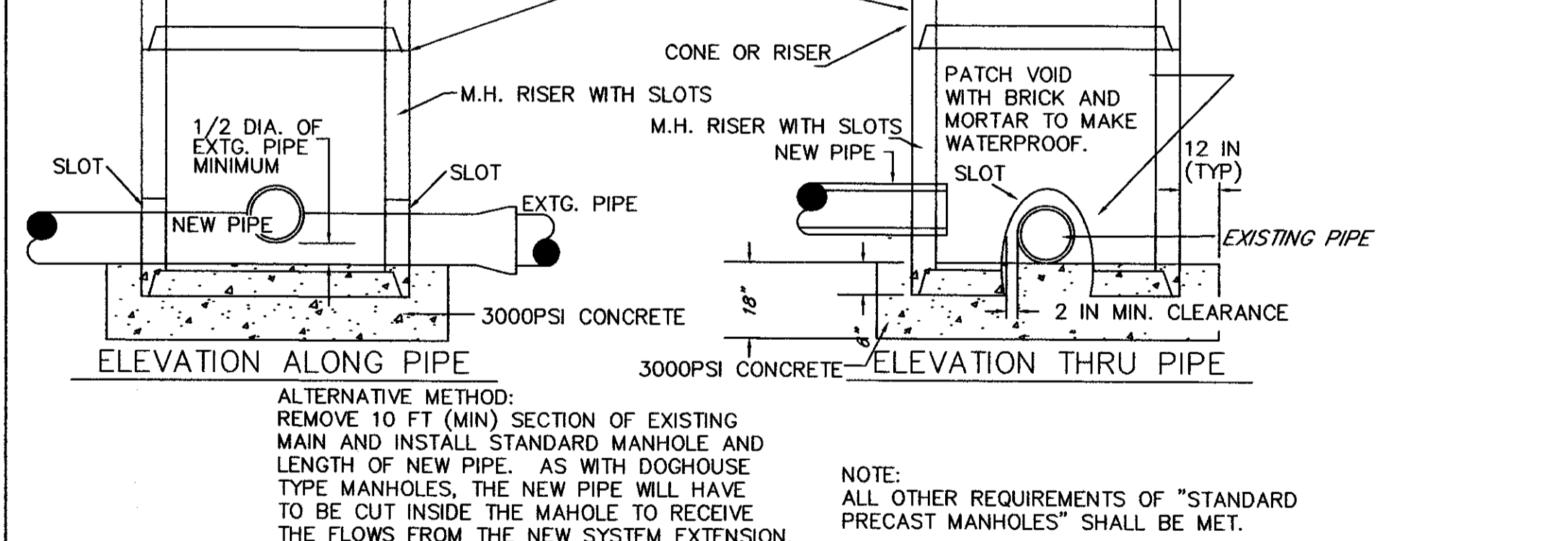
SHALLOW MANHOLE DETAIL

N.T.S.



INVERT

N.T.S.



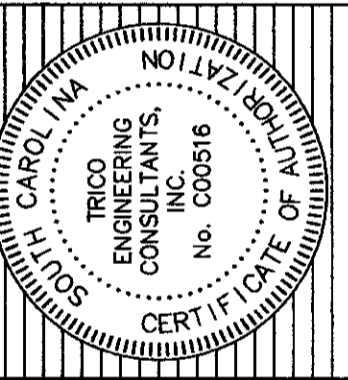
SECTION ALONG PIPE SECTION THRU MANHOLE

N.T.S.

- SEWER CONSTRUCTION NOTES:
- CONTRACTOR SHALL VERIFY EXISTING INVERT ELEVATIONS, MATERIALS AND LOCATION OF EXISTING SANITARY SEWER LINES AND MANHOLES BEING TIED INTO PRIOR TO CONSTRUCTION.
 - CONTRACTOR SHALL USE A SECTION OF 8" DIA. POLYLINE D.I.P. AT ANY CROSSING OF SANITARY SEWER LINE AND STORM DRAINAGE PIPE OR BOTTOM OF DRAINAGE STRUCTURE, OR POTABLE WATER LINE WITH LESS THAN 18" VERTICAL OR 10' HORIZONTAL SEPARATION. ALONG WITH 8" DIA. D.I.P., TWO D.I.P. - PVC ADAPTERS OR APPROVED EQUAL WILL BE CONSTRUCTED AT BOTH ENDS OF D.I.P.
 - CONTRACTOR WILL BE RESPONSIBLE FOR SECURING ALL NECESSARY PERMITS NEEDED FOR ALL PHASES OF CONSTRUCTION PRIOR TO THE START OF THE PROJECT.
 - NO MANHOLES OR WATER VALVE BOXES WILL BE ALLOWED IN EITHER THE ASPHALT PAVEMENT OR THE CONCRETE CUTTER.
 - ALL SEWER LINES INTO MANHOLES WILL HAVE A MINIMUM ANGLE OF 90 DEGREES TO DOWNSTREAM SEWER LINE.
 - THE BACKFILLING OF PIPELINE TRENCHES SHALL BE STARTED IMMEDIATELY AFTER THE PIPE WORK HAS BEEN INSPECTED. THE INITIAL BACKFILL MATERIAL PLACED TO A HEIGHT OF ONE (1) FOOT ABOVE THE TOP OF THE PIPE, SHALL CONSIST OF APPROVED BACKFILL MATERIAL FREE FROM ORGANIC MATTER AND DELETERIOUS SUBSTANCES, CONTAINING NO ROCKS OR LUMPS OVER TWO INCHES IN ANY DIMENSION. IT SHALL BE CAREFULLY PLACED AND COMPACTED THROUGHOUT ENTIRE AREA BACKFILLED. BACKFILL SHALL BE DEPOSITED IN 6" LAYERS (BEFORE COMPACTION) AND THOROUGHLY COMPACTED WITH POWER TOOLS TO 95% OF THEORETICAL MAXIMUM DENSITY, MODIFIED PROCTOR ASTM-D-1557.
 - WHERE TRENCHES ARE NOT UNDER PAVEMENT, SIDEWALKS, OR IN ALLEYS, THE BACKFILL SHALL BE COMPACTED TO A SUFFICIENT DENSITY TO PREVENT SETTLEMENT. ANY DEFICIENCY IN THE BACKFILLING OF THE TRENCHES, OR DEPRESSIONS CAUSED BY SETTLEMENT, SHALL BE REPAIRED.
 - WHERE PIPE TRENCHES ARE CUT ACROSS OR ALONG PAVEMENT, TRENCHES SHALL BE BACKFILLED WITH SELECT FILL MATERIAL PLACED AND COMPACTED IN 6" LIFTS. REPLACEMENT OF ROAD BASE AND ASPHALT SHALL BE IN ACCORDANCE WITH S.C.D.H.P.T. REGULATIONS. (SEE SEWER DETAIL SHEET)
 - BACKFILLING AROUND STRUCTURES SHALL BE DONE IN THE MANNER SPECIFIED ABOVE FOR PIPE TRENCHES BY POWER TAMPING FOR THE FULL DEPTH OF CUT FROM THE BOTTOM OF THE FINISHED GRADE.
 - ALL BACKFILLING SHALL BE DONE IN SUCH A MANNER AS WILL NOT DISTURB OR INJURE THE PIPES OR MANHOLES AGAINST WHICH IT IS BEING PLACED. ANY PIPE OR STRUCTURE INJURED, DAMAGED, OR MOVED FROM ITS PROPER LINE OR GRADE DURING BACKFILLING OPERATIONS SHALL BE UNCOVERED, REPAIRED AND THEN RE-BACKFILLED AS HEREIN SPECIFIED.
 - ANY DUCTILE IRON PIPE USED IN CONSTRUCTION SHALL BE POLYETHYLENE OR CALCIUM ALUMINATE LINED, AND SHALL BE COATED ON THE INTERIOR WITH PROTECTO 401 OR SEWERCOAT.
- SEWER NOTES:
- ADJUST MANHOLE RIM ELEVATIONS TO MATCH FINAL GRADE WHEN NECESSARY.
 - IN THE EVENT OF A CONFLICT WITH WATER, SEWER, DRAINAGE OR OTHER UTILITY LINES, THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER AND FIELD ADJUST TO AVOID CONFLICTS.

ALL MATERIAL AND CONSTRUCTION MUST MEET SUMMERVILLE CPW REQUIREMENTS.

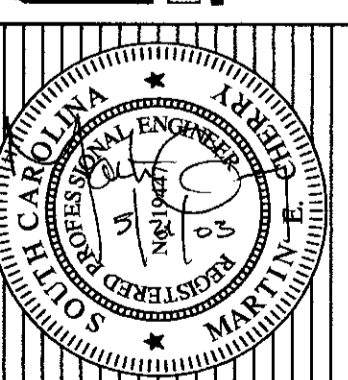
TITLE
SEWER DETAILS
PHASE II OF ARBOR OAKS SUBDIVISION
LOCATED IN
THE TOWN OF SUMMERVILLE
DORCHESTER COUNTY, SOUTH CAROLINA



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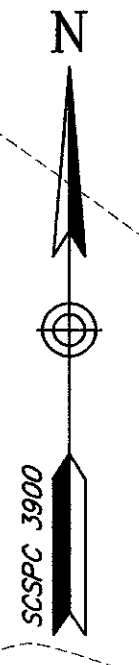
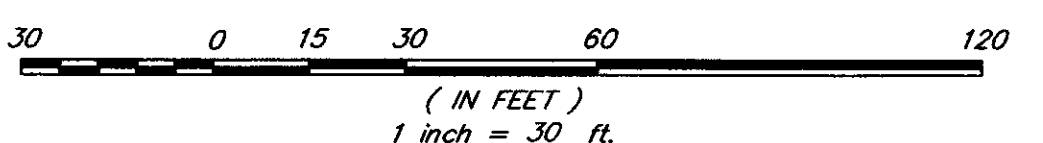
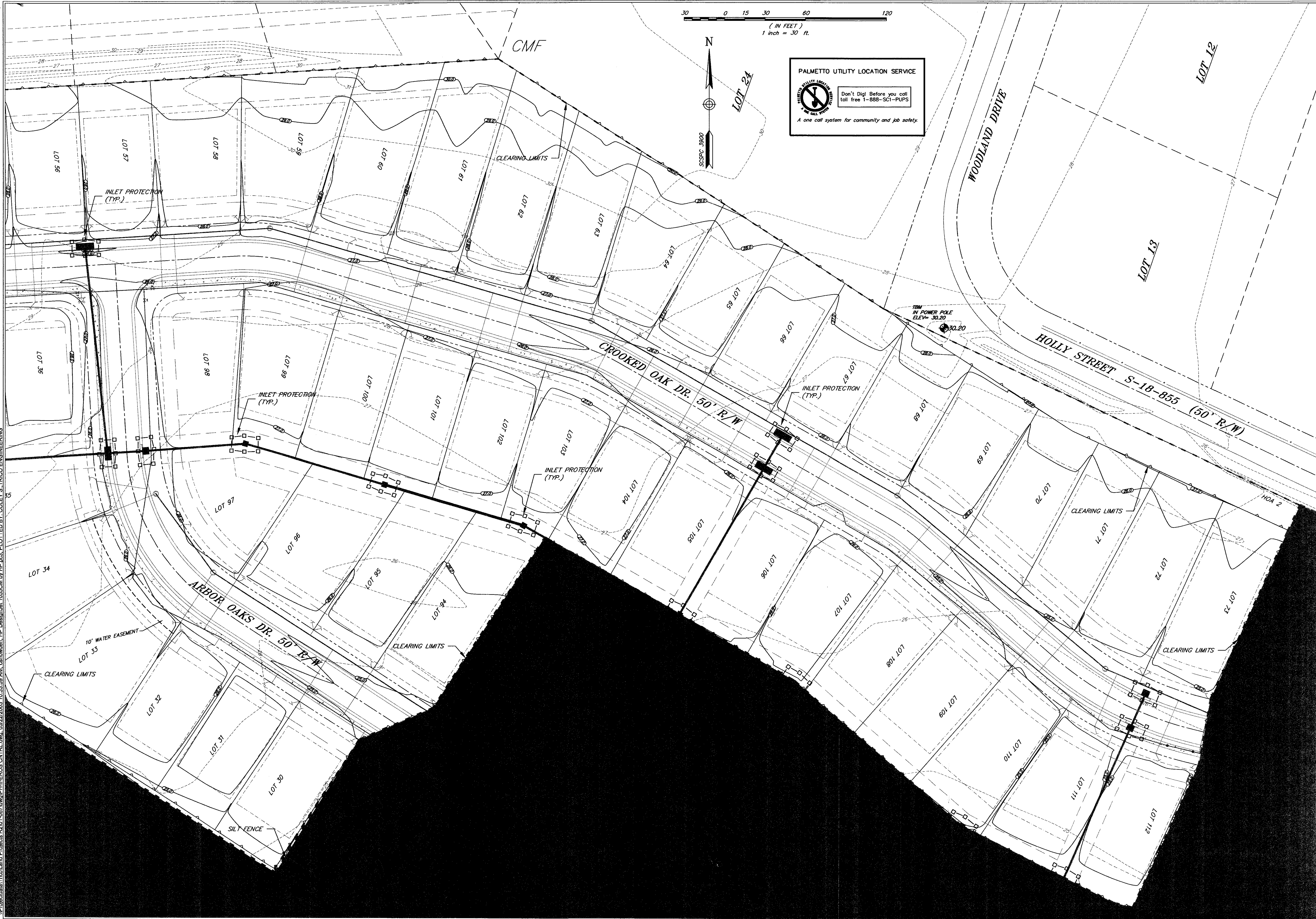
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DATE: 29 JANUARY 2002
PROJECT NO.: 01-087
SHEET 24 OF 28

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PROJECT NO. : 01-087			
SHEET 25			OF 28

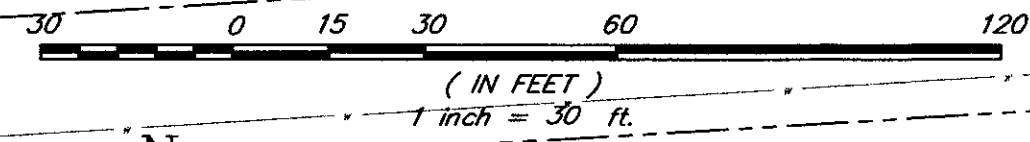
TITLE
EROSION CONTROL PLAN
 PHASE II OF ARBOR OAKS SUBDIVISION
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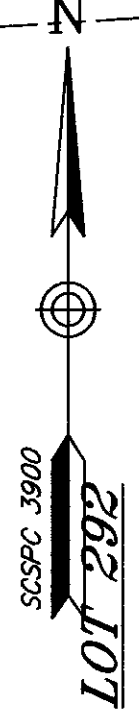
KING CHARLES CIRCLE



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LOT 287

LOT 288

LOT 289

LOT 290

LOT 291

LOT 292

LOT 293

LOT 294

LOT 295

LOT 296

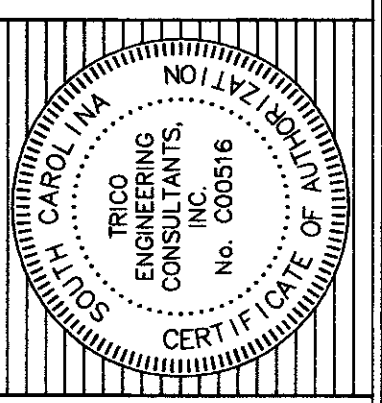
POND 8
50963.06 S.F.
1.170 AC.

CROOKED OAK DR. 50' R/W

JURISDICTIONAL
WETLANDS

NO.	DATE	REVISIONS

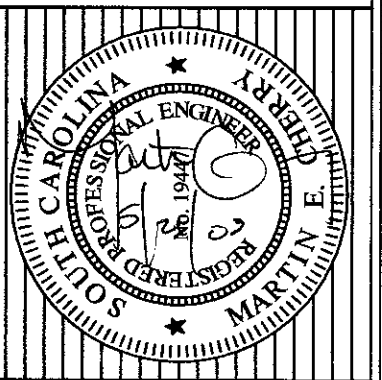
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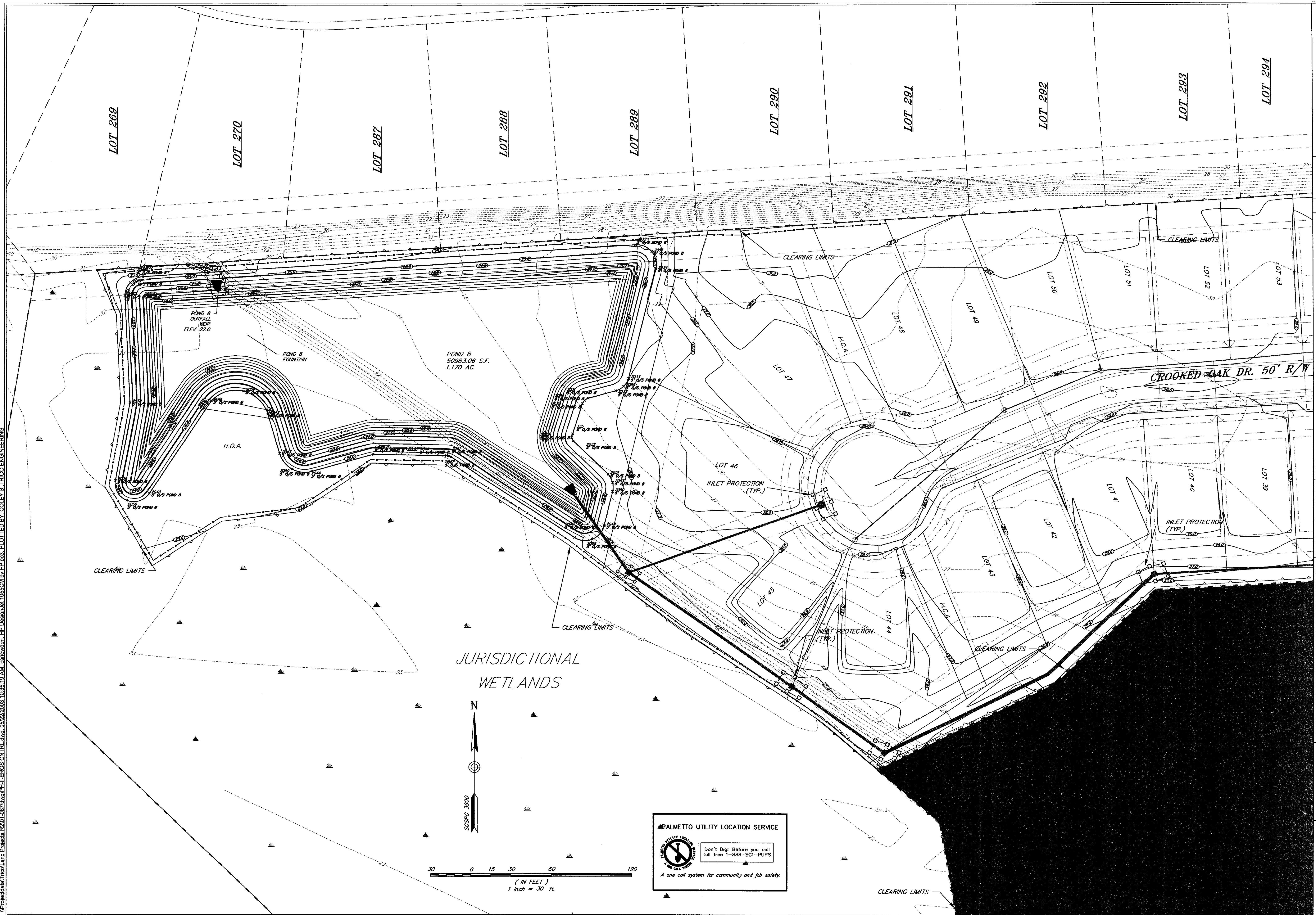
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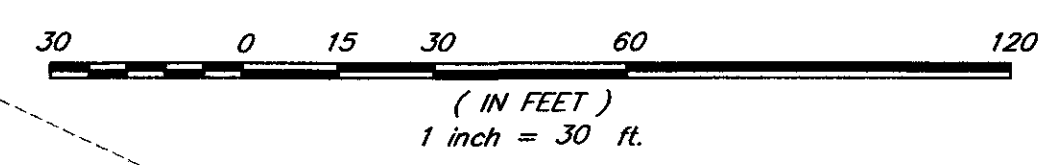
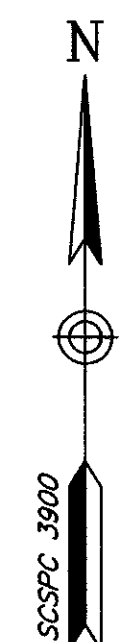
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 SHEET 26 OF 28

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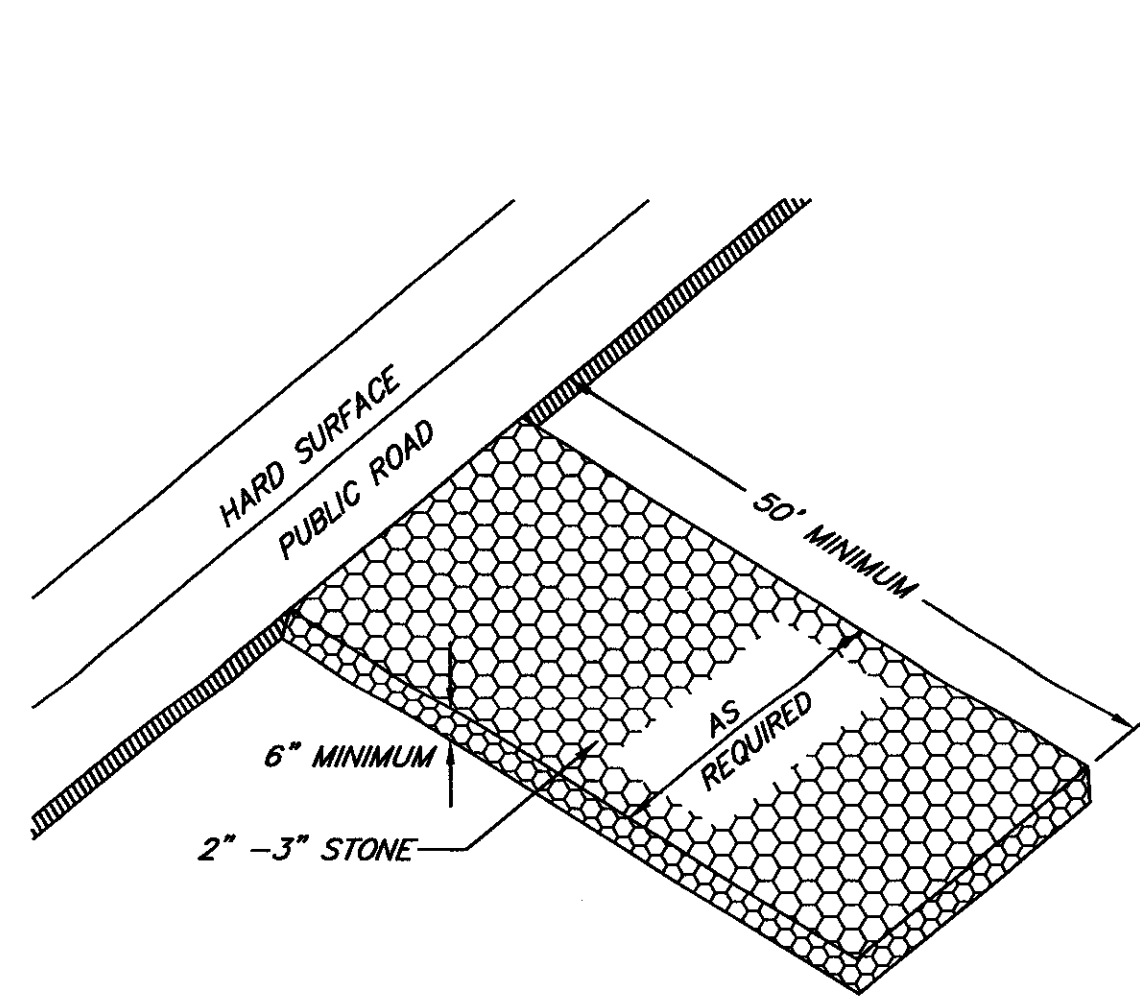
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COUNTY OF DORCHESTER
REGISTERED PROFESSIONAL ENGINEER
No. 10487
MARTIN E. ...

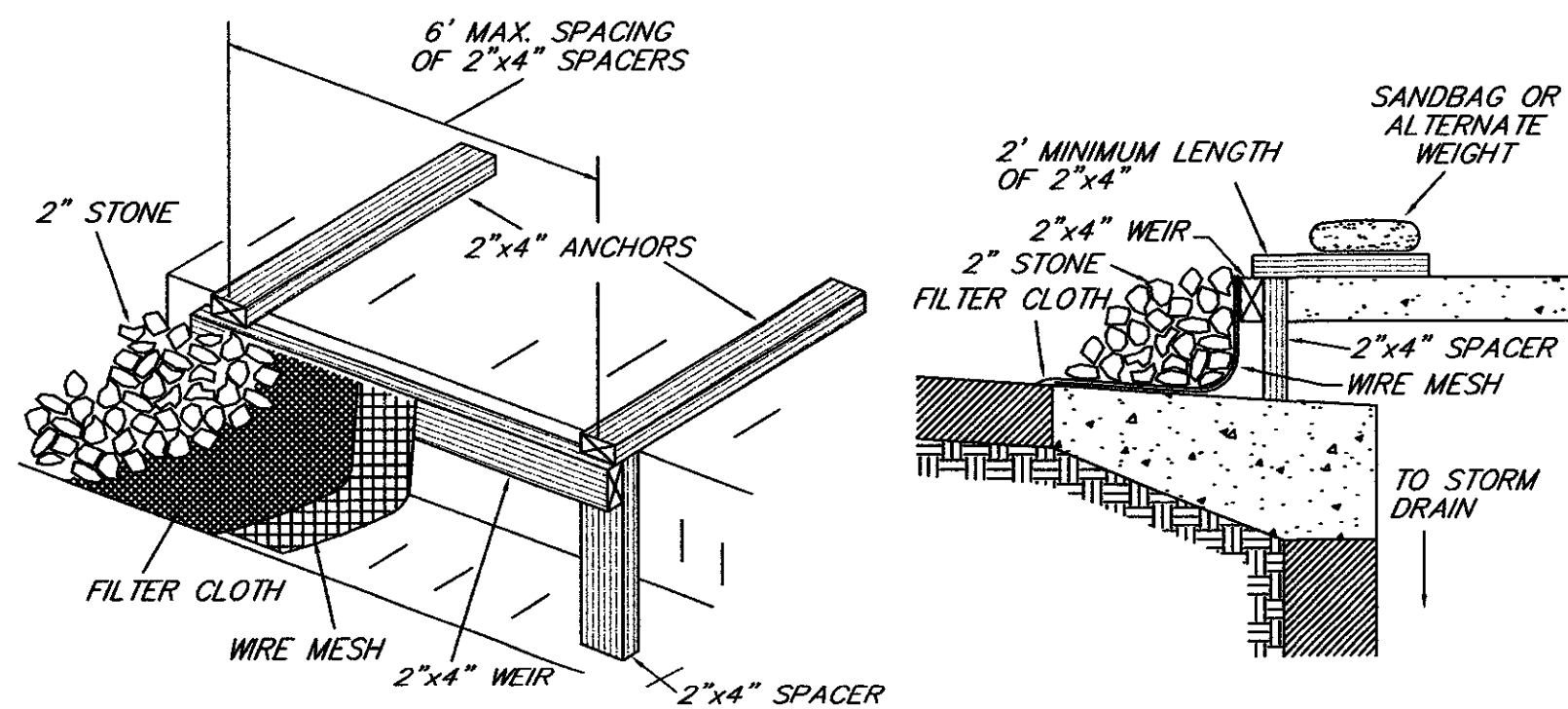
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DORCHESTER COUNTY, SOUTH CAROLINA

NO.	DATE	REVISIONS

N:\Projects\2003\10-29-03\10-29-03.dwg, 08/22/2003, 10:38:54 AM, cstrawden, HP Design\10550M by HP, p3, PLOTTED BY: COLEY S., TRICO ENGINEERING



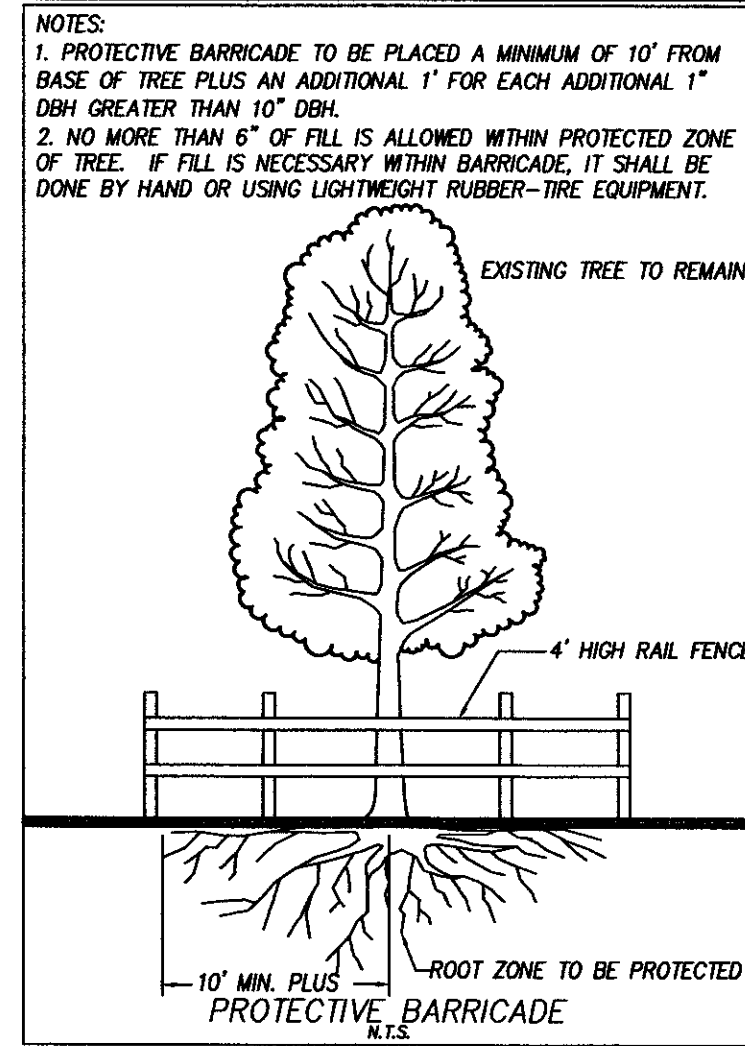
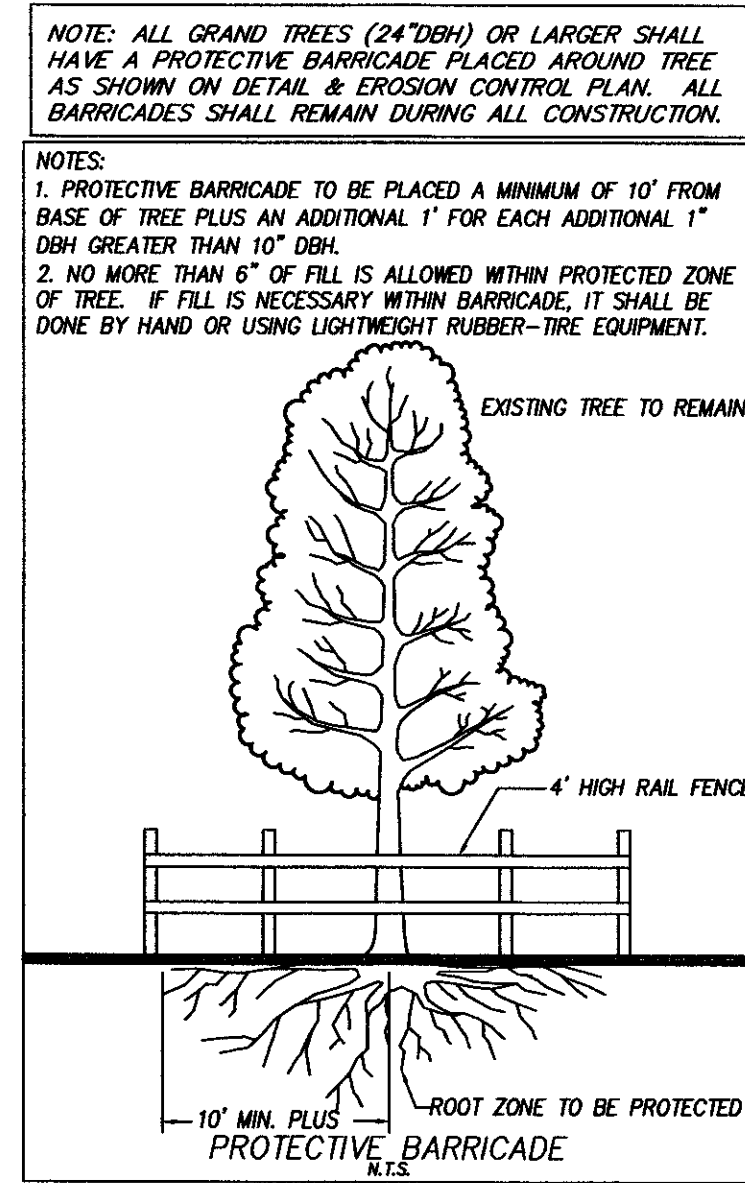
CONSTRUCTION ENTRANCE
N.T.S.



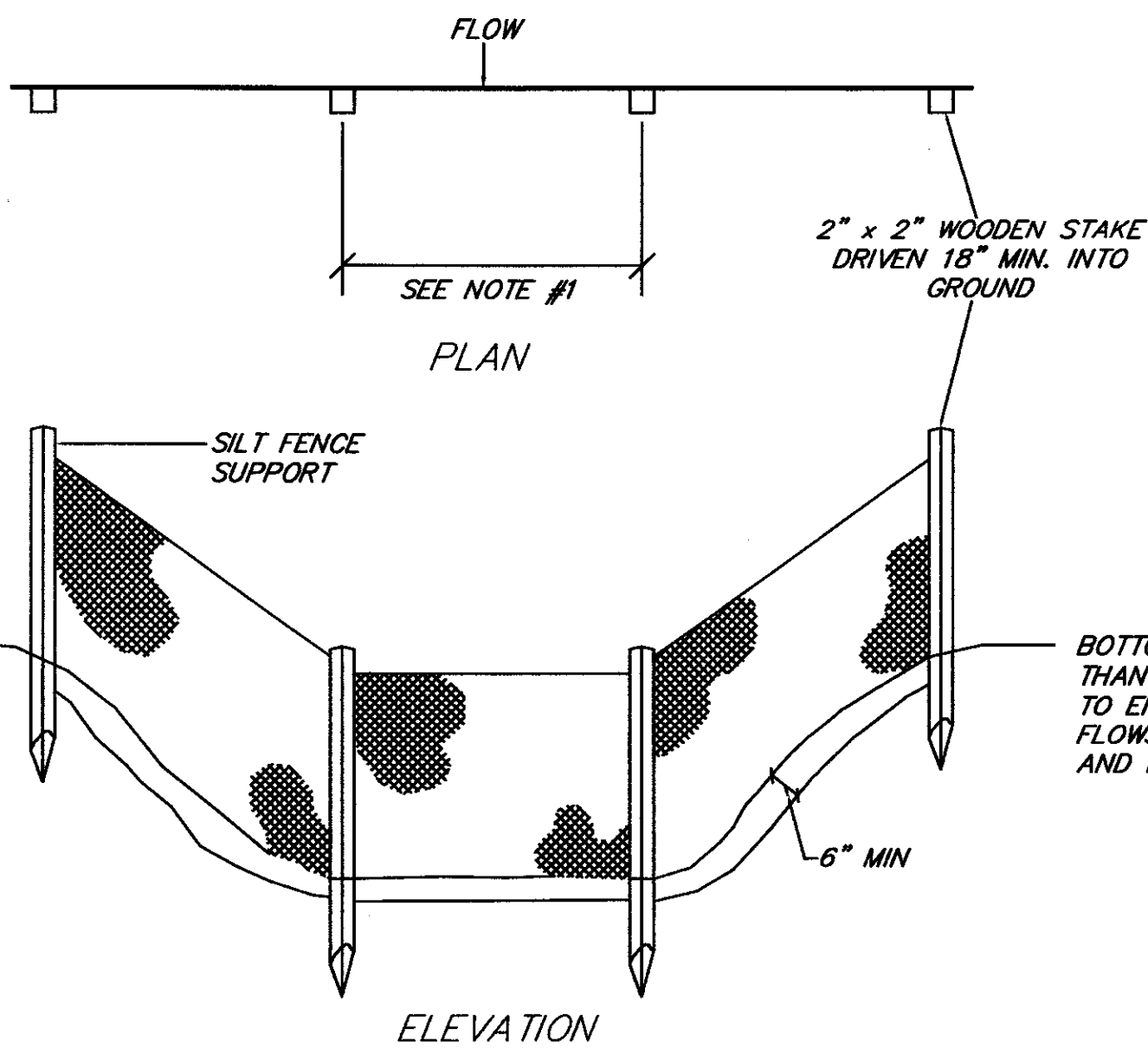
CURB INLET PROTECTION
N.T.S.

1. ATTACH A CONTINUOUS PIECE OF WIRE MESH (30" MINIMUM WIDTH BY THROAT LENGTH PLUS 4") TO THE 2" x 4" WEIR (MEASURING THROAT LENGTH PLUS 2") AS SHOWN ON THE STANDARD DRAWING.
2. PLACE A CONTINUOUS PIECE OF APPROVED FILTER CLOTH (40 - 60 SIEVE) OF THE SAME DIMENSIONS AS THE WIRE MESH OVER THE WIRE MESH AND SECURELY ATTACH IT TO THE 2" x 4" WEIR.
3. SECURELY NAIL THE 2" x 4" WEIR TO A 9" LONG VERTICAL SPACER TO BE LOCATED BETWEEN THE WEIR AND THE INLET FACE (MAX. 6" APART).
4. PLACE THE ASSEMBLY AGAINST THE INLET THROAT AND NAIL (MINIMUM 2" LENGTHS OF 2" x 4" TO THE TOP OF THE WEIR AT SPACER LOCATIONS). THESE 2" x 4" ANCHORS SHALL EXTEND ACROSS THE INLET AND BE HELD IN PLACE BY SANDBAGS OR ALTERNATE WEIGHT.
5. THE ASSEMBLY SHALL BE PLACED SO THAT THE END SPACERS ARE A MINIMUM 1' BEYOND BOTH ENDS OF THE THROAT OPENING.
6. FORM THE 1/2" x 1/2" WIRE MESH AND THE FILTER CLOTH TO THE CONCRETE GUTTER AND AGAINST THE FACE OF THE CURB ON BOTH SIDES OF THE INLET. PLACE CLEAN 2" STONE OVER THE WIRE MESH AND FILTER CLOTH IN SUCH A MANNER TO PREVENT WATER FROM ENTERING THE INLET UNDER OR AROUND THE FILTER CLOTH.
7. THIS TYPE OF PROTECTION MUST BE INSPECTED FREQUENTLY AND THE FILTER CLOTH AND STONE REPLACED WHEN CLOGGED WITH SEDIMENT.
8. ASSURE THAT STORM FLOW DOES NOT BYPASS THE INLET BY INSTALLING A TEMPORARY OR ASPHALT DIKE TO DIRECT THE FLOW TO THE INLET.

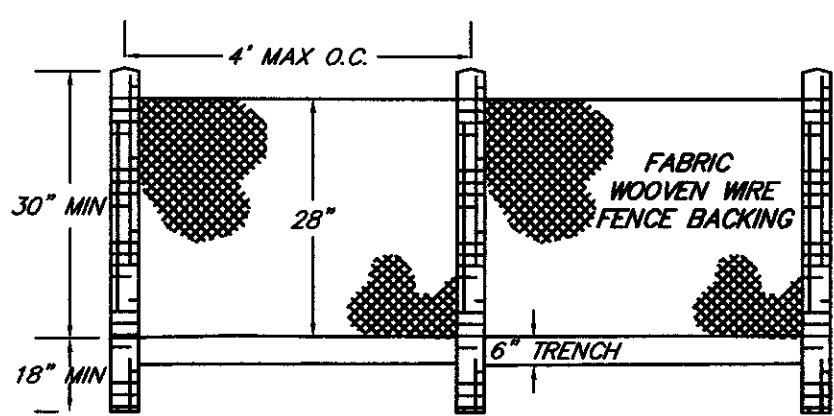
CURB INLET PROTECTION DETAIL
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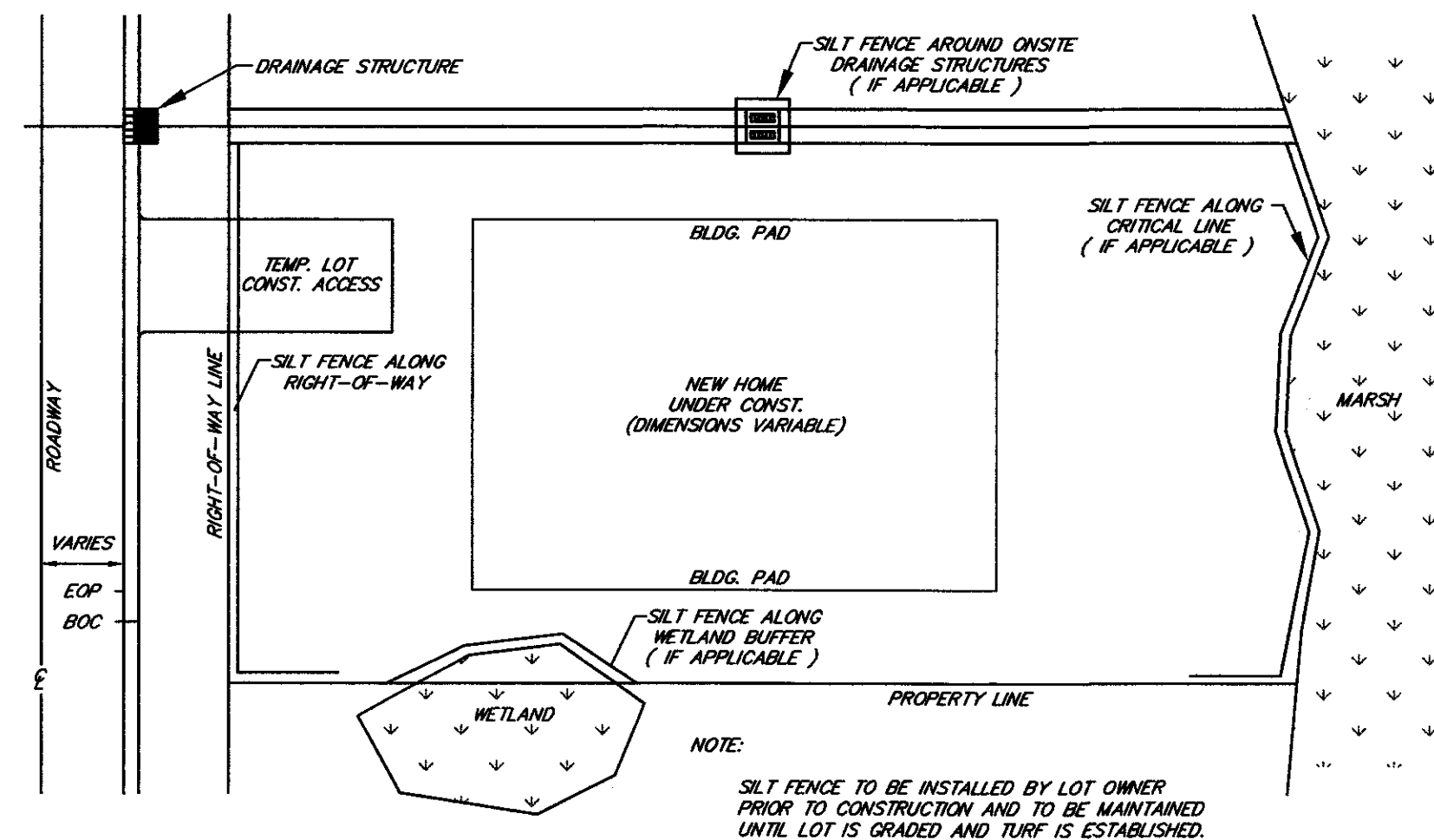
- NOTES:**
1. SPACING OF SUPPORTS (8 TO 10 FEET WITH WIRE MESH SUPPORT FENCE OR NO MORE THAN 6 FEET APART WITHOUT WIRE FENCE).
 2. MAXIMUM SILT FENCE HEIGHT (36 INCHES ABOVE GROUND).
 3. MINIMUM 6 INCH OVERLAP AT JOINTS AND JOINTS ARE ONLY TO BE AT SUPPORTS.
 4. MIN. BURRY DEPTH OF SILT FENCE IS 6 INCHES BELOW GRADE.



SILT FENCE DETAIL
N.T.S.



WIRE BACK SILT FENCE DETAIL
N.T.S.



TYPICAL LOT SILT FENCE DETAIL
N.T.S.

- *****SILT FENCE ADJACENT TO WETLANDS WILL BE TYPE C (36") WITH WOVEN WIRE REINFORCEMENT*****
- 1) MINIMUM LENGTH BETWEEN POST WILL BE 4'
 - 2) STEEL POST MUST BE USED FOR TYPE C (36") FENCE
 - 3) SIZE OF POST WILL BE NO SMALLER THAN 1.38"/16"

CONSTRUCTION NOTES:

1. ALL ELEVATIONS ARE BASED ON NGVD 29.
2. ALL WORK, METHODS, EQUIPMENT AND MATERIALS ARE TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE TOWN OF SUMMERVILLE ROAD CODE AND SPECIFICATIONS, LATEST EDITION.
3. ALL STREET RIGHT OF WAYS, SANITARY SEWER EASEMENTS, AND DRAINAGE EASEMENTS TO BE CLEARED 100% AND ALL DEBRIS REMOVED.
4. THE LOCATIONS OF EXISTING UTILITIES IS APPROXIMATE, THE CONTRACTOR SHALL VERIFY THE LOCATIONS, SIZES AND ELEVATIONS PRIOR TO BEGINNING WORK. SHOULD THE CONTRACTOR FIND ANY DISCREPANCIES ON THE DRAWINGS OR IN THE FIELD PRIOR TO BEGINNING WORK OR DURING CONSTRUCTION, HE SHALL IMMEDIATELY NOTIFY THE ENGINEER.
5. CONTRACTOR SHALL VERIFY OWNER OR ENGINEER HAS OBTAINED ALL NECESSARY PERMITS FOR CONSTRUCTION PRIOR TO THE START OF THE PROJECT.
6. PIPE UNDERDRAINS WILL BE CONSTRUCTED ALONG 100% OF ALL ROADWAY CURBS, INLETS AND JUNCTION BOXES, AND ALL AREAS DEEMED NECESSARY BY THE PROJECT ENGINEER OR CITY ENGINEER AND WILL BE CONSTRUCTED IN ACCORDANCE WITH THE SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, LATEST EDITION.
7. ALL SWALE DITCHES SHALL BE GRADED, PRIOR TO COMPLETION OF STREETS, TO GRADES SET BY THE DESIGN ENGINEER WITH THE APPROVAL OF THE TOWN OF SUMMERVILLE ENGINEER.
8. UNIFORMLY GRADE TOP SOIL BEHIND CURB AND GUTTER AT ADJACENT PROPERTY LINES TO MEET EXISTING GRADES AT PROPERTY LINE.
9. GRADE TO ENSURE POSITIVE DRAINAGE. FINISHED SURFACES SHALL FREE FROM SURFACE IRREGULARITIES.
10. THE SITE MUST BE CLEARED AND GRUBBED PRIOR TO PLACING EARTHWORK FILL. UNSUITABLE "POCKETS" OF COMPRESSIBLE SOILS SHALL BE REMOVED, BACKFILLED, AND COMPACTED WITH SUITABLE SOIL.
11. SHOULDERS OF ROADWAYS SHALL BE LEFT IN GOOD CONDITION, THAT IS ACCEPTABLE TO THE CITY OF NORTH CHARLESTON AND ALL TOPSOIL AND GRASS THAT IS DISTURBED SHALL BE REPLACED IN ACCORDANCE WITH THE S.C. DEPT. OF TRANSPORTATION.
12. ALL PIPE ENDS NOT CONSTRUCTED WITH STRUCTURES WILL BE RIPRAPPED AS SHOWN IN DETAIL.
13. EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO BEGINNING OF ANY WORK.
14. TOPOGRAPHICAL SURVEY PROVIDED BY TRICO ENGINEERING CONSULTANTS.
15. ALL UTILITIES TO BE INSTALLED BEFORE CURB & GUTTER OR S.A.B.C. INSTALLED.

EROSION CONTROL NOTES:

1. IF NECESSARY, SLOPES WHICH EXCEED EIGHT (8) VERTICAL FEET SHOULD BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS. IN ADDITION TO HYDROSEEDING. IT MAY BE NECESSARY TO INSTALL TEMPORARY SLOPE DRAINS DURING CONSTRUCTION. TEMPORARY BERMS MAY BE NEEDED DAILY UNTIL THE SLOPE IS BROUGHT TO GRADE.
2. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN FOURTEEN (14) DAYS AFTER WORK HAS CEASED, UNLESS ACTIVITY IN THAT PORTION OF THE SITE WILL RESUME WITHIN TWENTY-ONE (21) DAYS.
3. ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED EVERY SEVEN (7) DAYS OR AFTER EACH RAINFALL OCCURRENCE THAT EXCEEDS ONE-HALF (0.5) INCH. DAMAGED OR INEFFECTIVE DEVICES SHALL BE REPAIRED OR REPLACED, AS NECESSARY.
4. PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION.
5. ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFFSITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.
6. THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING MUD ONTO THE PAVED ROADWAY FROM CONSTRUCTION AREAS. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT, AS MAY BE REQUIRED.
7. RESIDENTIAL SUBDIVISIONS REQUIRE EROSION CONTROL FEATURES FOR INFRASTRUCTURE AS WELL AS FOR INDIVIDUAL LOT CONSTRUCTION. INDIVIDUAL PROPERTY OWNERS SHALL FOLLOW THESE PLANS DURING LOT CONSTRUCTION OR PROVIDE AN INDIVIDUAL PLAN MEETING SECTION R 72-307 OF THE STORMWATER MANAGEMENT AND SEDIMENT REDUCTION ACT. PROVIDE A DETAIL.

SEEDING RATES FOR TEMPORARY SEEDINGS

SPECIES	RATE PER 1,000 sq. ft.	RATE PER ACRE	PLANTING DATES COASTAL
RYE	3 POUNDS	2-3 BU.	10/1-3/1
RYEGRASS	1 POUNDS	40-50 LBS.	8/15-3/1
RYE AND ANNUAL LESPEDEZA	1 1/2 POUNDS	1-1 1/2 BU.	2/1-3/1
	1/2 POUND	20-25 LBS.	2/1-3/1
WEEDGRASS	0.2 POUNDS	4-6 LBS.	2/15-8/15
SLUDGRASS	1 POUND	35-45 LBS.	4/1-7/15
BROWNTOP	1 POUND	30-40 LBS.	4/1-7/15
MILLET	3 POUNDS	2-3 BU.	11/1-1/15

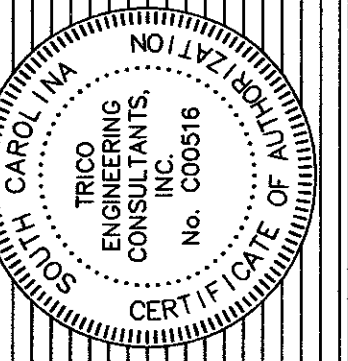
UNUSUAL SITE CONDITIONS MAY REQUIRE HEAVIER SEEDING RATES. SEEDING DATES MAY NEED TO BE ALTERED TO FIT TEMPERATURE VARIATIONS AND LOCAL CONDITIONS.
ALL DISTURBED AREAS MUST BE GRASSED IN ACCORDANCE WITH S.C.D.O.T. STANDARD SPECS. PRIOR TO ACCEPTANCE BY BERKELEY COUNTY.

SEEDING SCHEDULE

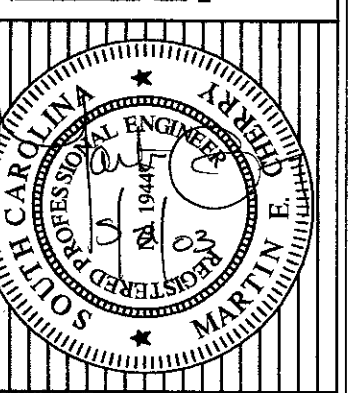
SEQUENCE OF CONSTRUCTION

1. INSTALL PERIMETER EROSION CONTROL
2. CLEARING & GRUBBING
3. INSTALL STORMDRAIN INFRASTRUCTURE
4. INSTALL SEDIMENT BASINS & TRAPS
5. INSTALL PERIMETER CONTROLS
6. UTILITY INSTALLATION
7. ROAD GRADING
8. COMPLETION OF SITE GRADING
9. FINAL GRADING & LANDSCAPE STABILIZATION
10. REMOVAL OF SEDIMENT CONTROLS

TITLE
EROSION CONTROL PLAN
 PHASE II OF ARBOR OAKS SUBDIVISION
 LOCATED IN
 THE TOWN OF SUMMERVILLE
 DORCHESTER COUNTY, SOUTH CAROLINA



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DESIGNED : MEL
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 SCALE : 1"=30'
 DATE : 29 JANUARY 2002
 PROJECT NO. : 01-087
 SHEET 28 of 28