ROAD DESIGN PLANS
for
NEW HORIZON PARTNERSHIP, LLC
LAND LOTS 156, 157, 183, AND 184 - 4TH DISTRICT
CITY OF LOGANVILLE
WALTON COUNTY, GEORGIA

City of Loganville Planning & Development

Zoning Commission
Recommendation

- Case #A04-023
  New Horizon Partnership, LLC Hwy 81 S. Annexation 240.73 acres + or -

The Planning & Development Department has no objection to this annexation with the following conditions:
- A traffic light requested at the main commercial entrance and Twin Lakes Road.
- Maintain a 50-foot space of property along Hwy 81 to connect adjacent properties in the county.

Zoning Commission:

A motion was made to accept this annexation with the conditions recommended by the Planning & Development Department.

Motion Carried: 4 – 0

- Case #R04-024
  New Horizon Partnership, LLC Hwy 81 S. Rezone: R-44 to CH
  42.36 acres + or -

The Planning & Development Department has no objection to this rezone.

Zoning Commission:

A motion was made to accept this rezone.

Motion Carried: 4 – 0

- Case #R04-025
  New Horizon Partnership, LLC Hwy 81 S. Rezone: R-44 to O & I
  20.72 acres + or -

The Planning & Development Department has no objection to this rezone.

Zoning Commission:

A motion was made to accept this rezone.

Motion Carried: 4 – 0

- Case #R04-026CU
  New Horizon Partnership, LLC Hwy 81 S. Rezone: R-44 to R-22 Cond. Use
  133.71 acres + or - Walton Pond Estates and Walton Creek Estates

The Planning & Development Department has no objection to this rezone with the following conditions:
- Subdivision shall contain no more than 157 lots in Walton Pond Estates and 205 lots in Walton Creek Estates
- Lot size: An average of 9,000 sq. ft. lots
- 50 ft. road right-of-way
- Minimum front yard setback: 25 ft.
- Minimum side yard setback: 10 ft.
- Minimum rear yard setback: 35 ft.
- 4 ft. sidewalk, 2 feet behind curb constructed according to GA ADA Standards
- Entire yards shall be sodded
- A minimum of 2 trees, at least 2 inches in diameter and 8 ft. tall shall be planted or preserved on each individual lot, one in front and one in rear of lot
- Homes shall have front facades of brick, stone, stucco or combination with hardi-plank siding
- Minimum heated floor area shall be 2,000 sq. ft. and greater
- Must have a mandatory Home Owners Association for ownership and maintenance of all open space including detention ponds and lake area
- Minimum of 30% Green Space

Zoning Commission:

A motion was made to accept this rezone with the conditions recommended by the Planning & Development Department and the added condition of amenities such as a playground, swim, tennis and even basketball goals be included in the development.

Motion Carried: 4 – 0

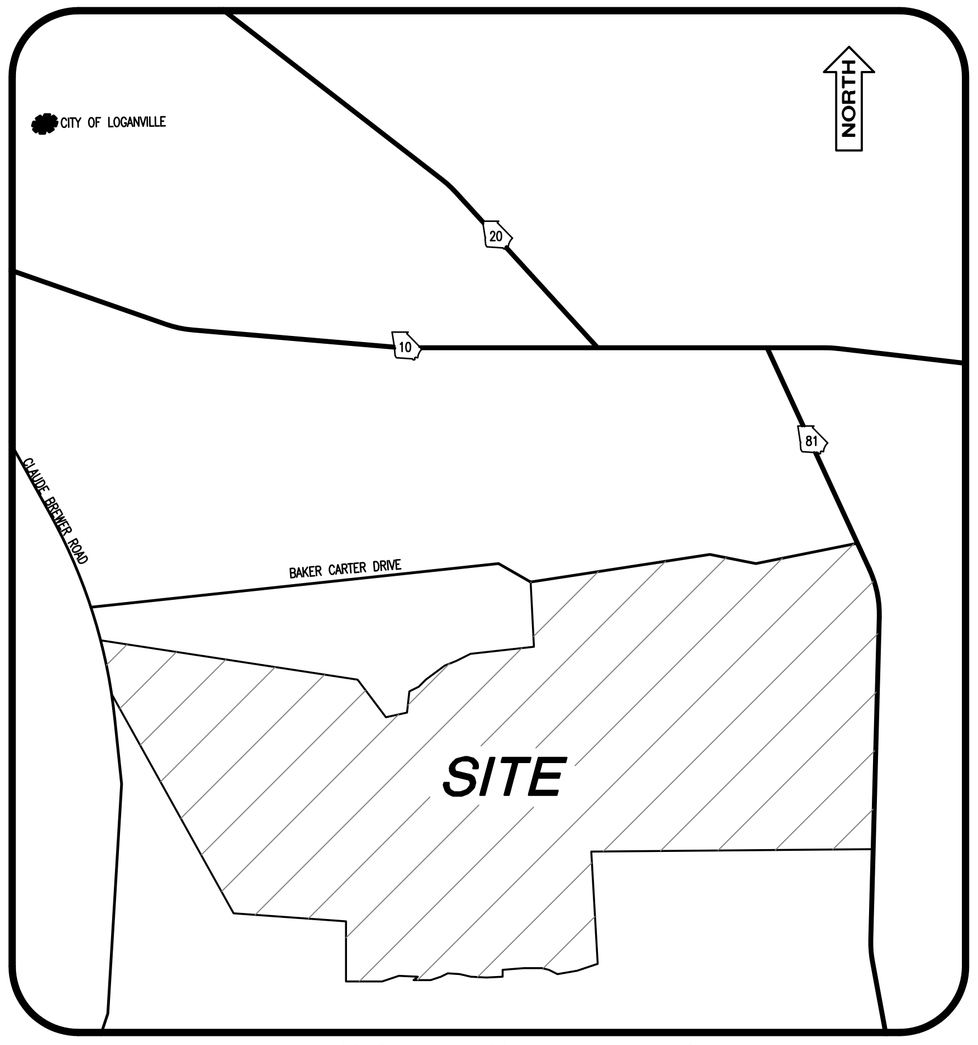
- Case #R04-027CU
  New Horizon Partnership, LLC Hwy 81 S. Rezone: R-44 to RM-8 CU

The Planning & Development Department has no objection to this rezone with the following conditions:
- Townhomes shall contain no more than 317 units.
- A minimum of 2,000 sq. ft. of heated floor space with a 1-car garage.
- A driveway shall be provided from Baker Carter Drive to the collector road in the development.

Zoning Commission:

A motion was made to accept this rezone with the conditions recommended by the Panning & Development Department, with the added condition of a playground to be provided and tenant owned not leased.

Motion Carried: 4 – 0



LOCATION MAP

AUGUST 12, 2005
REVISED 10/13/05
REVISED 12/12/05
REVISED 7/11/06

OWNER / DEVELOPER:

DAVID DERUSHA
2857 BRIDGEVIEW DRIVE
GAINESVILLE, GEORGIA 30507
PHONE: 678-410-1569
CONTACT: DAVID DERUSHA

ENGINEER:

Patton – Boyer, Inc.
LAND SURVEYORS & CIVIL ENGINEERS
909 ATLANTA HIGHWAY
GAINESVILLE, GEORGIA 30501
PHONE: (770) 532 - 6492
CONTACT: PAUL S. BOYER, PE

GEORGIA REGISTERED No. 18702 PROFESSIONAL ENGINEER PAUL S. BOYER

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IN EVENT OF EMERGENCY, CONTACT DAVID DERUSHA AT (678) 410-1569

THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES SHALL TAKE PLACE CONCURRENT WITH LAND DISTURBING ACTIVITIES

03-243.03

NOTES: A PORTION OF THIS PROPERTY IS NOT LOCATED WITHIN A FLOOD HAZARD AREA AS PER FIRM FLOOD INSURANCE RATE MAP OF WALTON COUNTY, GEORGIA COMMUNITY PANEL NO. 13297C0060 B EFFECTIVE DATE: FEBRUARY 16, 1990.

THE AREA LABELED AS FLOOD ZONE LIES WITHIN A SPECIAL FLOOD HAZARD AREA.

EQUIPMENT USED FOR MEASUREMENT: TOPCON G.T.S. 303.

IN MY OPINION, THIS PLAT IS A CORRECT REPRESENTATION OF THE LAND PLATTED, & HAS BEEN PREPARED IN CONFORMITY WITH THE MINIMUM STANDARDS AND REQUIREMENTS OF LAW.

AREA: TRACT – 1 213.74 ACRES
AREA: TRACT – 2 0.24 ACRES
AREA: TRACT – 3 2.29 ACRES
AREA: TRACT – 4 3.10 ACRES
AREA: TOTAL 219.37 ACRES

STATE WATERS BUFFER:
AN UNDISTURBED VEGETATIVE BUFFER MEETING COUNTY AND STATE REGULATIONS WILL BE PRESERVED ADJACENT TO ALL STREAMS AND LAKES. BUFFER IS TO BE MEASURED FROM THE TOP EDGE OF WATERS BANK.

WETLANDS STATEMENT:
TO THE BEST OF MY KNOWLEDGE, THIS SITE DOES NOT CONTAIN WETLANDS. NO FORMAL WETLANDS DELINEATION HAS PERFORMED ON THIS SITE.

NOTE:
NO FORMAL FLOOD STUDY HAS BEEN PERFORMED BY THIS COMPANY FOR THIS SITE. FLOOD ZONE SHOWN HEREON WAS SCALED FROM FIRM MAP AND IS APPROXIMATE.

THE FIELD DATA UPON WHICH THIS PLAT IS BASED HAS A CLOSURE PRECISION OF ONE FOOT IN 45,196 FEET AND AN ANGULAR ERROR OF 00'00'02" PER ANGLE POINT, AND WAS ADJUSTED USING LEAST SQUARES RULE. PARTY: C.P.

THIS PLAT (TRACT – 1) HAS BEEN CALCULATED FOR CLOSURE AND WAS FOUND TO BE ACCURATE WITHIN ONE FOOT IN 435,183 FEET.

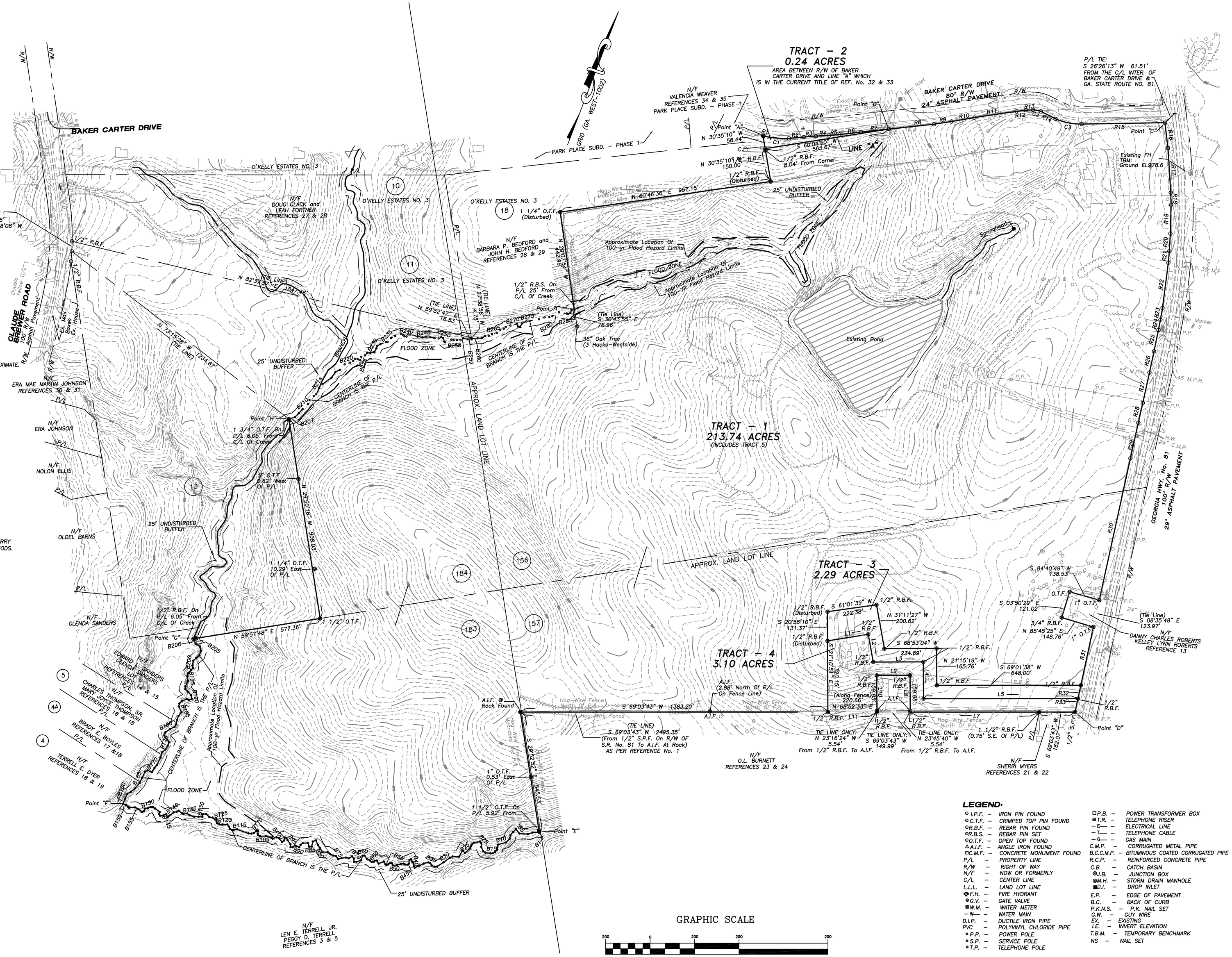
THIS PLAT (TRACT – 2) HAS BEEN CALCULATED FOR CLOSURE AND WAS FOUND TO BE ACCURATE WITHIN ONE FOOT IN 109,309 FEET.

THIS PLAT (TRACT – 3) HAS BEEN CALCULATED FOR CLOSURE AND WAS FOUND TO BE ACCURATE WITHIN ONE FOOT IN 280,950 FEET.

THIS PLAT (TRACT – 4) HAS BEEN CALCULATED FOR CLOSURE AND WAS FOUND TO BE ACCURATE WITHIN ONE FOOT IN 376,815 FEET.

CONTOUR INFORMATION:
CONTOURS SHOWN HEREON WERE COMPILED BY JACK W. BERRY & ASSOCIATES, Inc., USING STEREOPHOTOGRAMMETRIC METHODS.
DATE OF PHOTOGRAPHY: APRIL 3, 2004
CONTOUR INTERVAL: 2 FEET
CONTOUR DATUM: MEAN–SEA LEVEL

REFERENCES:
1. PLAT BOOK 85, PAGE 85
2. PLAT BOOK 7, PAGE 126
3. PLAT BOOK 7, PAGE 167
4. PLAT BOOK 24, PAGE 104
5. DEED BOOK 978, PAGES 385–386
6. PLAT BOOK 3, PAGE 218
7. PLAT BOOK 21, PAGE 41
8. PLAT BOOK 19, PAGE 99
9. DEED BOOK 144, PAGE 303
10. PLAT BOOK 23, PAGE 101
11. DEED BOOK 167, PAGE 619
12. PLAT BOOK 24, PAGE 199
13. DEED BOOK 1705, PAGE 396
14. DEED BOOK 208, PAGES 514–515
15. PLAT BOOK 17, PAGE 31
16. DEED BOOK 1383, PAGE 359
17. DEED BOOK 188, PAGE 254
18. PLAT BOOK 31, PAGE 133
19. DEED BOOK 188, PAGE 253
20. DEED BOOK 2119, PAGES 194–203
21. DEED BOOK 279, PAGES 523
22. PLAT BOOK 45, PAGE 172
23. DEED BOOK 112, PAGE 154
24. PLAT BOOK 7, PAGE 126
25. DEED BOOK 1301, PAGES 448
26. PLAT BOOK 21, PAGE 41
27. DEED BOOK 1487, PAGES 407–408
28. PLAT BOOK 19, PAGE 99
29. DEED BOOK 133, PAGE 140
30. DEED BOOK 256, PAGES 1–2
31. PLAT BOOK 6, PAGE 175
32. DEED BOOK 90, PAGES 181
33. PLAT BOOK 15 PAGE 230
34. DEED BOOK 1460, PAGES 329
35. PLAT BOOK 80 PAGE 92



LEGEND:

○ I.P.F.	– IRON PIN FOUND	□P.B.	– POWER TRANSFORMER BOX
○ C.T.F.	– CRIMPED TOP PIN FOUND	⊞T.R.	– TELEPHONE RISER
⊙R.B.F.	– REBAR PIN FOUND	–E–	– ELECTRICAL LINE
⊙R.B.S.	– REBAR PIN SET	–T–	– TELEPHONE CABLE
⊙O.T.F.	– OPEN TOP FOUND	–G–	– GAS MAIN
△A.I.F.	– ANGLE IRON FOUND	C.M.P.	– CORRUGATED METAL PIPE
□C.M.F.	– CONCRETE MONUMENT FOUND	B.C.C.M.P.	– BITUMINOUS COATED CORRUGATED PIPE
P/L	– PROPERTY LINE	R.C.P.	– REINFORCED CONCRETE PIPE
R/W	– RIGHT OF WAY	C.B.	– CATCH BASIN
N/F	– NOW OR FORMERLY	⊗J.B.	– JUNCTION BOX
C/L	– CENTER LINE	⊗M.H.	– STORM DRAIN MANHOLE
L.L.L.	– LAND LOT LINE	■D.I.	– DROP INLET
⊕F.H.	– FIRE HYDRANT	E.P.	– EDGE OF PAVEMENT
⊗G.V.	– GATE VALVE	B.C.	– BACK OF CURB
⊠W.M.	– WATER METER	P.K.N.S.	– P.K. NAIL SET
–W–	– WATER MAIN	G.W.	– GUY WIRE
D.I.P.	– DUCTILE IRON PIPE	EX.	– EXISTING
PVC	– POLYVINYL CHLORIDE PIPE	I.E.	– INVERT ELEVATION
●P.P.	– POWER POLE	T.B.M.	– TEMPORARY BENCHMARK
●S.P.	– SERVICE POLE	NS	– NAIL SET
●T.P.	– TELEPHONE POLE		

REVISIONS

NO.	DATE	REMARKS
1	12/05	COMMENTS
2.	7/11	COMMENTS

SEAL

GEORGIA REGISTERED No. 18702 PROFESSIONAL LAND SURVEYOR PAUL S. BOYER

THIS DRAWING, AS AN INSTRUMENT OF SERVICE, IS AND SHALL REMAIN THE PROPERTY OF THE ENGINEER AND SHALL NOT BE REPRODUCED, PUBLISHED, OR USED IN ANY WAY WITHOUT THE PERMISSION OF THE ENGINEER.

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AT THE SITE BEFORE PROCEEDING WITH EACH PHASE OF THE WORK.

Patton-Boyer, Inc.
CIVIL ENGINEERS & LAND SURVEYORS
600 ATLANTA HWY.
GAINESVILLE, GEORGIA 30501
PHONE (770) 532 – 6492
FAX (770) 532 – 1995

EXISTING SITE CONDITIONS:
FOR
NEW HORIZON PARTNERSHIP, LLC
CITY OF LOGANVILLE
WALTON COUNTY, GEORGIA 4TH DISTRICT
LAND LOTS 156, 157, 183, AND 184 –

SHEET NUMBER
C2 54
of
03–243.03 COVER

SCALE
1' = 200'

DATE
8/12/05

PROJECT NO.
03–243.03

POINT "A" TO POINT "B" ALONG THE R/W OF BAKER CARTER DRIVE

LINE	BEARING	DISTANCE
R1	N 84°44'49" E	2.75'

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING
C1	427.95'	114.12'	113.78'	S 74°28'32" W

LINE	BEARING	DISTANCE
R2	N 64°13'09" E	68.33'
R3	N 64°09'23" E	54.32'
R4	N 66°52'04" E	60.08'
R5	N 63°25'12" E	46.15'
R6	N 62°27'58" E	97.02'
R7	N 62°57'53" E	126.79'

POINT "B" TO POINT "C" ALONG THE R/W OF BAKER CARTER DRIVE

LINE	BEARING	DISTANCE
R8	N 62°57'53" E	203.76'
R9	N 60°13'01" E	79.75'
R10	N 59°20'48" E	104.77'
R11	N 60°33'59" E	191.19'
R12	N 62°35'09" E	42.27'
R13	N 66°21'42" E	32.19'

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING
C2	100.36'	36.63'	36.42'	S 79°56'14" W

LINE	BEARING	DISTANCE
R14	S 84°00'40" E	73.92'

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING
C3	288.75'	120.74'	119.86'	S 80°19'30" W

LINE	BEARING	DISTANCE
R15	N 68°05'14" E	374.17'

POINT "C" TO POINT "D" ALONG THE R/W OF STATE ROUTE No. 81

LINE	BEARING	DISTANCE
R16	S 27°56'39" E	115.07'
R17	S 24°26'39" E	200.71'
R18	S 22°17'36" E	54.72'
R19	S 19°41'04" E	129.86'
R20	S 17°27'05" E	79.75'
R21	S 16°04'21" E	51.66'
R22	S 13°34'15" E	204.26'
R23	S 10°54'09" E	54.67'
R24	S 09°57'37" E	46.39'
R25	S 09°18'42" E	98.59'
R26	S 08°49'48" E	97.59'
R27	S 08°35'48" E	139.98'
R28	S 08°11'28" E	91.16'
R29	S 08°22'39" E	164.46'
R30	S 08°33'25" E	653.12'
R31	S 08°47'53" E	267.92'
R32	S 08°33'56" E	61.55'
R33	S 09°01'29" E	61.76'

ALONG THE PROPERTY LINES

LINE	BEARING	DISTANCE
L1	N 59°55'36" E	185.52'
L2	S 31°07'25" E	126.62'
L3	N 68°50'29" E	225.21'
L4	S 21°19'57" E	165.66'
L5	N 69°02'30" E	694.34'
L7	S 69°03'43" W	579.43'
L8	N 21°14'03" W	165.54'
L9	S 68°52'33" W	149.77'
L10	S 21°09'30" E	165.06'
L11	S 69°03'43" W	220.66'

POINT "E" TO POINT "F" ALONG THE C/L OF BRANCH

LINE	BEARING	DISTANCE
B1	S 23°56'23" W	1.59'
B2	S 64°51'53" W	29.07'
B3	S 49°20'21" W	22.27'
B4	S 73°41'49" W	38.07'
B5	N 59°07'07" W	24.93'
B6	S 24°05'46" W	18.34'
B7	S 22°43'40" W	17.30'
B8	S 08°54'09" E	17.96'
B9	S 24°21'36" W	24.07'
B10	S 54°12'53" W	34.89'
B11	S 00°25'27" E	15.36'
B12	S 16°42'50" E	9.58'
B13	S 20°23'23" W	13.79'
B14	S 41°09'50" W	10.20'
B15	S 67°36'43" W	11.66'
B16	S 76°34'15" W	23.55'
B17	N 77°04'50" W	10.47'
B18	N 45°21'11" W	20.93'
B19	N 21°54'48" W	18.82'
B20	N 64°25'38" W	7.83'
B21	S 59°36'15" W	28.50'
B22	S 24°36'53" W	12.06'
B23	S 04°10'48" W	8.64'
B24	S 01°16'23" W	9.96'
B25	S 27°14'02" W	30.53'
B26	N 74°09'12" W	15.65'
B27	S 08°17'44" W	30.62'
B28	S 70°51'09" W	28.73'
B29	S 43°47'58" W	13.38'
B30	S 33°25'17" W	35.28'
B31	S 36°00'17" W	34.41'
B32	S 63°42'00" W	11.52'
B33	N 87°30'18" W	14.40'
B34	N 53°37'20" W	11.52'
B35	N 85°58'24" W	9.74'
B36	S 55°40'24" W	22.39'
B37	S 40°50'14" W	20.07'
B38	S 46°53'40" W	24.10'
B39	N 51°15'46" W	8.49'
B40	N 26°30'25" W	16.35'
B41	N 78°32'10" W	5.88'
B42	N 45°56'31" W	12.35'
B43	S 46°45'07" W	8.20'
B44	S 13°13'16" E	16.91'
B45	S 30°56'49" W	7.99'
B46	S 72°42'07" W	10.81'
B47	N 76°22'01" W	7.89'
B48	S 63°28'01" W	12.47'
B49	S 52°19'26" W	17.98'
B50	S 63°30'04" W	19.34'
B51	N 42°05'50" W	10.24'
B52	S 76°59'16" W	7.54'
B53	S 39°02'11" W	10.01'
B54	S 45°23'39" W	8.72'
B55	N 86°14'58" W	5.34'
B56	N 51°17'06" W	15.23'
B57	S 47°24'31" W	25.13'
B58	N 52°06'22" W	15.36'
B59	S 70°13'41" W	9.48'
B60	S 20°48'30" W	7.49'
B61	S 68°31'13" W	9.36'
B62	N 69°57'43" W	10.23'
B63	N 82°27'07" W	15.82'
B64	N 57°11'07" W	17.94'
B65	S 60°23'48" W	8.54'
B66	S 04°48'07" E	20.17'

POINT "E" TO POINT "F" (Continued) ALONG THE C/L OF BRANCH

LINE	BEARING	DISTANCE
B67	S 49°33'51" W	22.98'
B68	S 67°57'03" W	11.20'
B69	N 21°57'28" W	15.19'
B70	N 61°40'00" W	12.57'
B71	S 37°52'34" W	16.75'
B72	S 83°13'46" W	13.58'
B73	S 61°08'06" W	19.93'
B74	S 53°27'02" W	15.74'
B75	N 57°23'57" W	16.43'
B76	S 81°13'28" W	13.48'
B77	N 84°33'07" W	14.14'
B78	N 74°43'00" W	15.17'
B79	S 70°37'58" W	22.27'
B80	N 54°15'09" W	23.43'
B81	N 55°00'34" W	14.44'
B82	N 44°58'20" W	22.90'
B83	S 48°10'44" W	14.55'
B84	S 07°37'23" E	23.09'
B85	S 66°28'15" W	11.23'
B86	N 39°01'02" W	17.39'
B87	S 66°39'10" W	23.47'
B88	S 32°15'23" W	12.32'
B89	S 08°12'17" W	12.54'
B90	S 87°44'51" W	13.53'
B91	N 80°18'40" W	7.96'
B92	S 27°37'22" W	12.56'
B93	S 73°13'30" W	9.89'
B94	N 22°47'04" W	12.88'
B95	N 56°43'30" W	22.40'
B96	N 47°43'08" W	10.72'
B97	S 83°21'06" W	7.54'
B98	S 03°53'30" E	13.79'
B99	S 35°13'12" W	10.90'
B100	N 61°27'30" W	22.20'
B101	N 88°50'26" W	11.26'
B102	S 49°43'39" W	18.56'
B103	N 78°30'46" W	9.38'
B104	S 84°26'51" W	22.68'
B105	S 68°36'11" W	25.98'
B106	N 86°14'13" W	10.44'
B107	N 34°12'12" W	5.80'
B108	N 12°17'47" W	12.76'
B109	N 52°42'55" W	7.17'
B110	S 18°04'26" W	8.51'
B111	S 32°44'37" W	13.15'
B112	S 54°25'20" W	10.81'
B113	S 72°30'22" W	12.86'
B114	S 88°30'45" W	54.84'
B115	S 62°02'59" W	14.72'
B116	S 65°24'13" W	8.41'
B117	N 82°45'56" W	10.48'
B118	N 46°40'52" W	11.24'
B119	N 56°10'27" W	11.62'
B120	S 66°14'17" W	21.81'
B121	S 77°18'11" W	15.49'
B122	N 86°08'24" W	10.08'
B123	N 35°14'44" W	10.24'
B124	N 18°36'28" W	9.31'
B125	S 55°10'54" W	8.12'
B126	N 72°13'16" W	12.99'
B127	S 78°32'18" W	14.94'
B128	N 67°32'57" W	20.47'
B129	S 65°24'30" W	13.38'
B130	S 08°22'29" E	12.77'
B131	S 70°44'52" W	17.23'
B132	S 70°03'25" W	19.84'
B133	S 85°33'50" W	21.64'

POINT "E" TO POINT "F" (Continued) ALONG THE C/L OF BRANCH

LINE	BEARING	DISTANCE
B134	N 72°22'06" W	13.39'
B135	S 59°00'55" W	17.15'
B136	N 80°09'25" W	8.07'
B137	N 73°26'02" W	18.49'
B138	S 43°15'13" W	9.50'
B139	S 55°29'56" W	13.97'
B140	S 32°41'55" W	23.74'
B141	S 28°38'57" W	10.86'
B142	N 50°00'01" W	14.34'
B143	S 46°05'28" W	13.62'
B144	S 62°47'35" W	14.60'
B145	N 48°09'37" W	8.69'
B146	N 10°32'43" W	9.95'
B147	N 74°31'06" W	25.08'
B148	N 75°54'25" W	12.70'
B149	S 68°51'12" W	8.83'
B150	S 47°07'00" W	14.79'
B151	S 61°56'35" W	12.51'
B152	S 00°00'38" W	13.33'
B153	S 51°20'25" W	8.99'
B154	N 73°24'02" W	20.41'
B155	N 84°01'46" W	17.72'
B156	S 65°49'34" W	26.90'
B157	N 66°16'01" W	7.54'
B158	N 68°03'22" W	11.34'
B159	S 89°51'20" W	13.89'

POINT "F" TO POINT "G" ALONG THE C/L OF BRANCH

LINE	BEARING	DISTANCE
B160	N 00°32'20" E	24.56'
B161	N 04°05'20" E	24.16'
B162	N 39°10'01" E	18.11'
B163	N 29°38'48" E	23.19'
B164	N 19°47'13" E	33.28'
B165	N 04°16'48" E	26.19'
B166	N 06°24'34" E	30.47'
B167	N 41°44'50" E	12.29'
B168	S 88°11'22" E	20.37'
B169	N 11°32'45" E	21.92'
B170	N 18°23'31" E	18.20'
B171	N 04°10'45" E	36.22'
B172	N 02°54'27" W	25.29'
B173	N 27°35'48" E	19.00'
B174	N 13°04'04" E	17.79'
B175	N 01°16'13" E	19.42'
B176	N 61°07'07" W	11.85'
B177	N 54°57'18" W	25.94'
B178	N 01°36'46" W	14.75'
B179	N 34°07'59" E	24.68'
B180	N 43°17'51" E	23.56'
B181	N 10°27'30" E	14.43'
B182	N 09°31'36" W	20.43'
B183	N 00°54'38" W	17.66'
B184	N 16°46'26" E	22.23'
B185	N 46°43'06" W	28.14'
B186	N 09°13'27" W	13.53'
B187	N 26°38'08" E	15.88'
B188	N 44°01'17" E	23.45'
B189	N 67°40'08" E	22.72'
B190	N 32°51'38" W	16.42'
B191	N 60°17'45" W	19.20'
B192	N 67°28'42" W	18.66'
B193	N 18°22'51" W	11.20'
B194	N 03°48'06" E	27.46'
B195	N 27°59'55" W	22.26'
B196	N 03°59'22" W	13.83'
B197	N 21°17'31" E	17.74'
B198	N 19°17'18" E	14.10'
B199	N 31°08'41" W	11.33'
B200	N 11°30'28" W	21.58'
B201	N 26°57'43" E	16.07'
B202	N 29°27'08" E	20.13'
B203	N 02°12'45" W	20.55'
B204	N 32°15'43" W	20.91'
B205	N 76°51'47" W	23.60'
B206	N 44°10'23" W	23.92'

POINT "H" TO POINT "I" ALONG THE C/L OF BRANCH

LINE	BEARING	DISTANCE
B207	N 50°42'28" E	28.98'
B208	N 23°28'19" E	23.09'
B209	N 22°29'38" E	25.08'
B210	N 26°15'36" E	33.59'
B211	N 02°05'17" W	20.44'
B212	N 25°30'00" E	26.53'
B213	N 35°39'02" E	13.28'
B214	N 05°29'12" E	31.00'
B215	N 19°16'27" E	22.38'
B216	N 32°51'49" E	50.66'
B217	N 13°29'48" E	30.79'
B218	N 44°00'02" E	21.08'
B219	N 20°13'46" E	34.07'
B220	N 52°48'09" E	25.57'
B221	N 40°58'58" E	15.93'
B222	N 16°19'18" E	12.88'
B223	N 72°52'30" E	11.32'
B224	S 87°07'19" E	13.22'
B225	N 03°23'25" W	15.90'
B226	N 47°48'23" E	17.52'
B227	N 24°27'48" E	16.34'
B228	N 74°00'38" E	12.64'
B229	N 54°42'17" E	18.67'
B230	N 09°18'17" E	19.21'
B231	N 03°04'03" W	11.73'
B232	N 41°06'52" E	16.06'
B233	N 48°53'51" E	26.65'
B234	N 56°43'19" E	7.66'
B235	N 22°05'23" E	22.06'
B236	N 41°41'02" E	21.35'
B237	N 50°53'30" E	28.69'
B238	S 87°05'41" E	7.47'
B239	S 65°27'55" E	10.73'
B240	N 74°15'08" E	9.35'
B241	N 17°38'10" E	12.52'
B242	N 71°48'22" E	8.45'
B243	N 84°23'12" E	35.35'
B244	N 78°28'03" E	21.90'
B245	N 62°14'12" E	13.95'
B246	N 71°55'32" E	21.01'
B247	N 81°57'27" E	20.32'
B248	N 71°57'15" E	18.18'
B249	N 42°55'01" E	12.33'
B250	S 89°06'05" E	9.31'
B251	S 38°07'31" E	16.06'
B252	S 72°10'55" E	6.17'
B253	N 46°29'26" E	29.77'
B254	N 78°38'41" E	10.46'
B255	N 66°20'43" E	15.08'
B256	N 72°58'21" E	16.16'
B257	N 35°11'17" E	15.42'
B258	N 82°08'20" E	20.70'
B259	N 59°52'47" E	19.45'
B260	N 65°13'08" E	25.09'
B261	N 66°56'27" E	18.37'
B262	N 37°08'24" E	18.52'
B263	N 66°28'48" E	15.40'
B264	N 38°06'38" E	16.80'
B265	N 56°46'14" E	22.80'
B266	N 27°37'10" E	20.64'
B267	N 52°20'13" E	16.27'
B268	N 29°13'08" E	12.11'
B269	N 50°50'40" E	21.45'
B270	N 55°19'26" E	30.61'
B271	S 42°46'26" E	13.08'
B272	N 75°50'20" E	9.48'
B273	N 08°22'31" E	17.33'
B274	N 43°06'08" E	21.23'
B275	N 59°40'44" E	15.79'
B276	N 59°21'55" E	42.32'
B277	N 50°33'27" E	26.68'
B278	N 64°56'13" E	21.29'
B279	N 54°17'13" E	13.79'
B280	N 38°52'34" E	34.77'
B281	N 77°55'08" E	35.29'
B282	N 84°06'36" E	5.89'
B283	N 48°51'39" E	11.77'
B284	N 00°35'02" W	13.63'
B285	N 57°32'40" E	12.65'

REVISIONS

NO.	DATE	REMARKS
1	12/05	COMMENTS
2.	7/11	COMMENTS

SEAL

GEORGIA REGISTERED No. 18702 PROFESSIONAL LAND SURVEYOR PAUL S. BOYER

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THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AT THE SITE BEFORE PROCEEDING WITH EACH PHASE OF THE WORK.

Patton-Boyer, Inc.
LAND SURVEYORS & PLANNERS
609 ATLANTA HWY
MONROE, GEORGIA 30501
PHONE (770) 532 - 6492
FAX (770) 532 - 1995

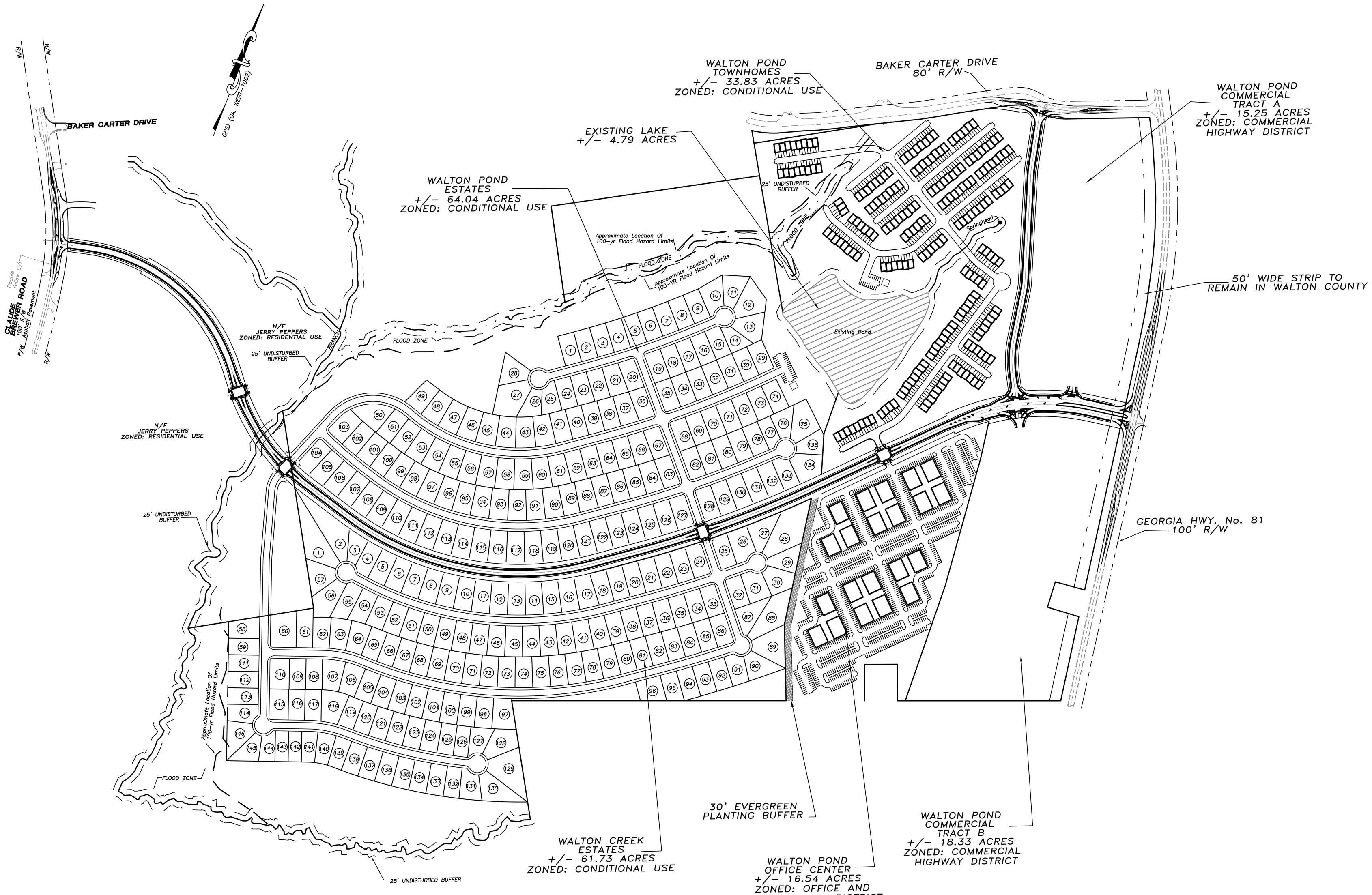
METES AND BOUNDS
FOR
NEW HORIZON PARTNERSHIP, LLC
CITY OF LOGANVILLE
WALTON COUNTY, GEORGIA
LAND LOTS 156, 157, 183, AND 184 - 4TH DISTRICT

SHEET NUMBER
C3 54
of
03-243.03 COVER

SCALE
N/A

DATE
8/12/05

PROJECT NO.
03-243.03



GRAPHIC SCALE

200 0 200 400 800

1 inch = 200 ft.

REVISIONS

NO.	DATE	REMARKS
1	12/05	COMMENTS
2.	7/11	COMMENTS

SEAL

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Patton-Boyer, Inc.
CIVIL ENGINEERS & LAND SURVEYORS
601 ATLANTA HWY
GAINESVILLE, GEORGIA 30501
PHONE (770) 532 - 6492
FAX (770) 532 - 1995

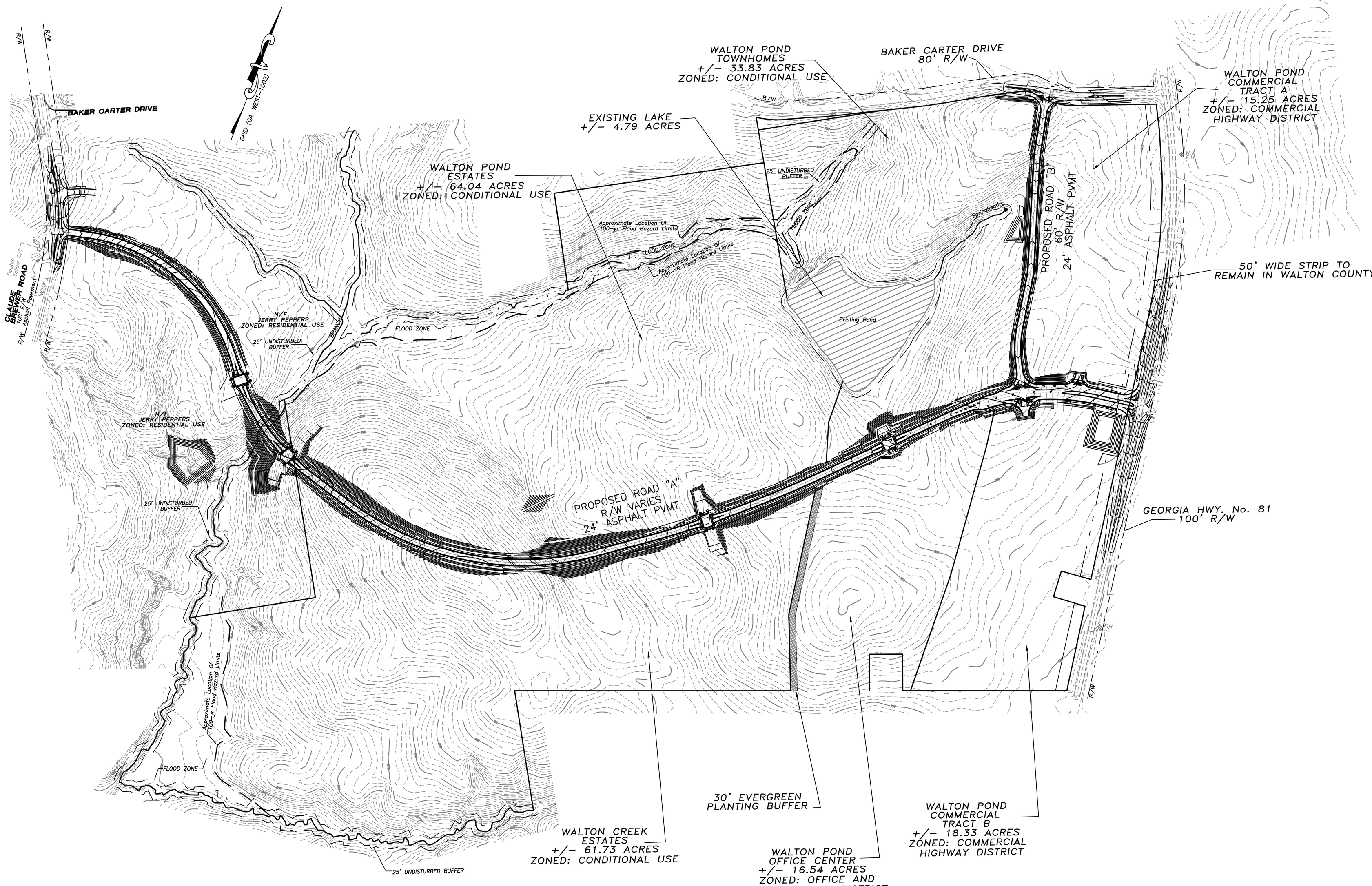
FUTURE LAYOUT PLAN:
FOR
NEW HORIZON PARTNERSHIP, LLC
CITY OF LOGANVILLE
WALTON COUNTY, GEORGIA
LAND LOTS 156, 157, 183, AND 184 - 4TH DISTRICT

SHEET NUMBER
C4 54
of
03-243.03 COVER

SCALE
1' = 200'

DATE
8/12/05

PROJECT NO.
03-243.03



GRAPHIC SCALE

200 0 200 400 800

1 inch = 200 ft.

REVISIONS

NO.	DATE	REMARKS
1	12/05	COMMENTS
2.	7/11	COMMENTS

SEAL

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Patton-Boyer, Inc.
CIVIL ENGINEERS & LAND SURVEYORS
601 ATLANTA HWY
GAINESVILLE, GEORGIA 30501
PHONE (770) 532 - 6492
FAX (770) 532 - 1995

OVERALL ROAD PLAN:
FOR
NEW HORIZON PARTNERSHIP, LLC
CITY OF LOGANVILLE
WALTON COUNTY, GEORGIA
LAND LOTS 156, 157, 183, AND 184 - 4TH DISTRICT

SHEET NUMBER
C5 54
of
03-243.03 COVER

SCALE
1' = 200'

DATE
8/12/05

PROJECT NO.
03-243.03

SEWER NOTE:

ALL SEWER LINE RUNS ARE "DRY RUNS" TO BE TAPPED WHEN FUTURE DEVELOPMENT TAKES PLACE.

NOTE:

BEFORE ANY UTILITY IS INSTALLED, THE ENTIRE WIDTH OF THE R/W SHALL BE ROUGH GRADED AND ALL CONCRETE CURBING SET AT FINAL GRADES.

IN GENERAL, THE DEEPEST UTILITIES SHOULD BE INSTALLED FIRST TO MINIMIZE ANY INTERFERENCE WITH LATERALS OR SERVICE LINES.

EACH UTILITY SHALL BE RESPONSIBLE FOR REPAIR OF ANY DAMAGE TO OTHER UTILITIES, OR TO THE STREET IMPROVEMENTS WITHIN THE R/W.

GENERAL CONSTRUCTION NOTES:

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF LOGANVILLE WATER AND SEWERAGE AUTHORITY REQUIREMENTS.

PRIOR TO PERFORMING ANY LAND DISTURBING ACTIVITIES, OR WHEN WORK IS TO BE PERFORMED WITHIN 10 FEET OF HIGH VOLTAGE OVERHEAD POWER LINES, THE CONTRACTOR IS REQUIRED BY LAW TO NOTIFY THE UTILITY PROTECTION CENTER AT 1-800-282-7411; 72 HOURS ADVANCE NOTICE IS REQUIRED.

ALL DISTURBED EARTH AREAS SHALL BE GRASSED IN ACCORDANCE WITH THE CITY OF LOGANVILLE SUBDIVISION REGULATIONS AS SOON AS POSSIBLE.

Water System will be put in according to City Specifications

24 Hour notice on all inspections.

All water mains and service lines must have tracer wire

The City of Loganville requires all water lines to be 8"or greater Ductile Iron pipe.

On all 10" water main Jack and Bores will need to have 20" casing.

All Fire Hydrants must be attached with anchor coupling.

Must maintain water and sewer utility's in all easements at a minimum of 10 ft. between utilities.

No valves will be located in or under pavement.

All water pipe joints and taps must be left open in order for visual inspections by water departments.

All Water valves must be located every 1000 ft.

SEE SHEET No. 51 FOR UTILITY LOCATION CROSS SECTION DETAIL

THE SPECIFIC LOCATIONS AND INSTALLATION OF WATERLINES, VALVES, HYDRANTS, AND SERVICES RELATIVE TO STREET CURBS AND RIGHT-OF-WAYS SHALL BE IN COMPLIANCE WITH THE LOCATIONS AND DISTANCES SET FORTH IN THE CITY OF LOGANVILLE WATER AND SEWERAGE AUTHORITY STANDARDS, (LATEST EDITION).

FIRE HYDRANTS ON NEW STREETS SHALL BE LOCATED AS NEAR TO THE STREET RIGHT-OF-WAY AS PRACTICAL.

WATER VALVES AT INTERSECTIONS SHALL BE LOCATED BEHIND THE CURB.

SERVICE LATERALS SHALL BE LOCATED WITH A MINIMUM BURY EQUAL TO THAT OF THE MAIN LINE WITHIN THE RIGHT-OF-WAY AND SHALLOWING TO A BURY OF 18 INCHES AT THE WATER METER LOCATION.

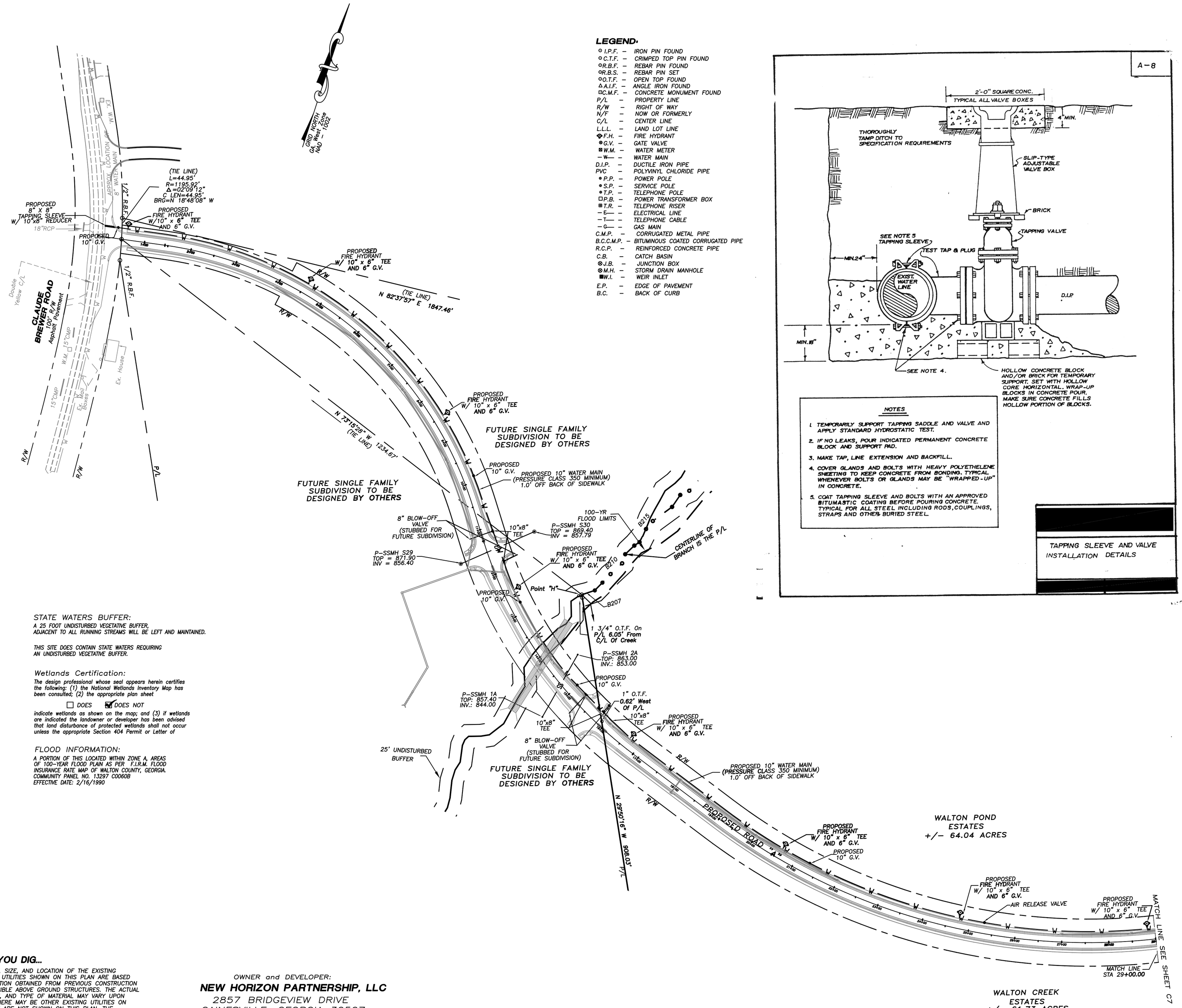
GENERAL INFORMATION FOR THE DEVELOPER:

AS A REMINDER TO THE DEVELOPER, ALL WATER DISTRIBUTION CONSTRUCTION IS INSPECTED AND TESTED AS PER AUTHORITY STANDARDS PRIOR TO FINAL ACCEPTANCE.

A CONTRACTOR INSTALLING THE PROPOSED WATER AND SEWER INFRASTRUCTURE IS REQUIRED TO HOLD A VALID UTILITY CONTRACTOR'S LICENSE IN THE STATE OF GEORGIA.

REVIEW OF PLANS BY CITY OF LOGANVILLE WATER AND SEWERAGE AUTHORITY IS FOR CONFORMANCE TO THE CITY OF LOGANVILLE WATER AND SEWERAGE AUTHORITY STANDARDS ONLY. ALL AND ANY OTHER NECESSARY PERMITS SUCH AS U.S. ARMY CORPS, GDOT, NPDES, ETC. ARE THE RESPONSIBILITY OF THE DEVELOPER.

REVIEW OF PLANS BY THE CITY OF LOGANVILLE WATER AND SEWERAGE AUTHORITY IS FOR COMPLIANCE WITH THE AUTHORITY'S WATER CONSTRUCTION STANDARDS AND DELEGATION REQUIREMENTS OF EPD ONLY. IT DOES NOT IMPLY, GRANT, OR CONSTITUTE SEWER AND/OR WATER CAPACITY BY THE AUTHORITY IN ANY MANNER. IT IS THE DEVELOPER'S RESPONSIBILITY TO ADDRESS CAPACITY SEPARATELY WITH THE APPROPRIATE REPRESENTATIVES.



LEGEND:

⊙ I.P.F.	–	IRON PIN FOUND
⊙ C.T.F.	–	CRIMPED TOP PIN FOUND
⊙ R.B.F.	–	REBAR PIN FOUND
⊙ R.B.S.	–	REBAR PIN SET
⊙ O.T.F.	–	OPEN TOP FOUND
△ A.I.F.	–	ANGLE IRON FOUND
⊡ C.M.F.	–	CONCRETE MONUMENT FOUND
P/L	–	PROPERTY LINE
R/W	–	RIGHT OF WAY
N/F	–	NOW OR FORMERLY
C/L	–	CENTER LINE
L.L.L.	–	LAND LOT LINE
⧫ F.H.	–	FIRE HYDRANT
⧫ G.V.	–	GATE VALVE
⧫ W.M.	–	WATER METER
— W —	–	WATER MAIN
D.I.P.	–	DUCTILE IRON PIPE
PVC	–	POLYVINYL CHLORIDE PIPE
⌖ P.P.	–	POWER POLE
● S.P.	–	SERVICE POLE
● T.P.	–	TELEPHONE POLE
⊡ P.B.	–	POWER TRANSFORMER BOX
■ T.R.	–	TELEPHONE RISER
— E —	–	ELECTRICAL LINE
— T —	–	TELEPHONE CABLE
— G —	–	GAS MAIN
C.M.P.	–	CORRUGATED METAL PIPE
B.C.C.M.P.	–	BITUMINOUS COATED CORRUGATED PIPE
R.C.P.	–	REINFORCED CONCRETE PIPE
C.B.	–	CATCH BASIN
⊗ J.B.	–	JUNCTION BOX
⊗ M.H.	–	STORM DRAIN MANHOLE
■ W.I.	–	WEIR INLET
E.P.	–	EDGE OF PAVEMENT
B.C.	–	BACK OF CURB

STATE WATERS BUFFER:

A 25 FOOT UNDISTURBED VEGETATIVE BUFFER, ADJACENT TO ALL RUNNING STREAMS WILL BE LEFT AND MAINTAINED.

THIS SITE DOES CONTAIN STATE WATERS REQUIRING AN UNDISTURBED VEGETATIVE BUFFER.

Wetlands Certification:

The design professional whose seal appears herein certifies the following: (1) the National Wetlands Inventory Map has been consulted; (2) the appropriate plan sheet

☐ DOES ☑ DOES NOT

indicate wetlands as shown on the map; and (3) if wetlands are indicated the landowner or developer has been advised that land disturbance of protected wetlands shall not occur unless the appropriate Section 404 Permit or Letter of

FLOOD INFORMATION:

A PORTION OF THIS LOCATED WITHIN ZONE A, AREAS OF 100-YEAR FLOOD PLAIN AS PER F.I.R.M. FLOOD INSURANCE RATE MAP OF WALTON COUNTY, GEORGIA. COMMUNITY PANEL NO. 13297 C0060B EFFECTIVE DATE: 2/16/1990

A-8

NOTES

1. TEMPORARILY SUPPORT TAPPING SADDLE AND VALVE AND APPLY STANDARD HYDROSTATIC TEST.
2. IF NO LEAKS, POUR INDICATED PERMANENT CONCRETE BLOCK AND SUPPORT PAD.
3. MAKE TAP, LINE EXTENSION AND BACKFILL.
4. COVER GLANDS AND BOLTS WITH HEAVY POLYETHELENE SHEETING TO KEEP CONCRETE FROM BONDING. TYPICAL WHENEVER BOLTS OR GLANDS MAY BE "WRAPPED-UP" IN CONCRETE.
5. COAT TAPPING SLEEVE AND BOLTS WITH AN APPROVED BITUMASTIC COATING BEFORE POURING CONCRETE. TYPICAL FOR ALL STEEL INCLUDING RODS, COUPLINGS, STRAPS AND OTHER BURIED STEEL.

TAPPING SLEEVE AND VALVE INSTALLATION DETAILS

UTILITIES PROTECTION CENTER, INC.

Call FREE
THROUGHOUT GEORGIA
1 – 800 – 282 – 7411
IN ATLANTA: 325 – 5000
THREE WORKING DAYS BEFORE YOU DIG
ITS THE LAW

100' 0 100' 200' 300'
GRAPHIC SCALE – 1 INCH = 100 FEET

BEFORE YOU DIG...

THE PRESENCE, SIZE, AND LOCATION OF THE EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED UPON INFORMATION OBTAINED FROM PREVIOUS CONSTRUCTION PLANS AND VISIBLE ABOVE GROUND STRUCTURES. THE ACTUAL LOCATION, SIZE, AND TYPE OF MATERIAL MAY VARY UPON EXCAVATION. THERE MAY BE OTHER EXISTING UTILITIES ON THIS SITE THAT ARE NOT SHOWN ON THIS PLAN. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES PRIOR TO ANY DEMOLITION, EXCAVATION, AND/OR CONSTRUCTION. THE CONTRACTOR IS ADVISED TO CONTACT THE LOCAL UNDERGROUND UTILITY LOCATOR SERVICE PRIOR TO ANY DEMOLITION, EXCAVATION, AND/OR CONSTRUCTION.

OWNER and DEVELOPER:
NEW HORIZON PARTNERSHIP, LLC
2857 BRIDGEVIEW DRIVE
GAINESVILLE, GEORGIA 30507
(24 Hour Contact)
MR. DAVID DERUSHA
PHONE: 678-410-1569

REVISIONS:

DATE	COMMENTS
12/05	ADDRESS COMMENTS
7/11/06	ADDRESS COMMENTS
11/01/08	REVISED MH 1A

SEAL

GEORGIA REGISTERED No. 18702 PROFESSIONAL ENGINEER PAUL S. BOYER

GEORGIA REGISTERED No. 2647 LAND SURVEYOR CHRIS W. PATTON

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Patton - Boyer, Inc.
LAND SURVEYORS & ENGINEERS
909 ATLANTA HIGHWAY
CAINESVILLE, GEORGIA 30501
(1877) 80 248 6492
PHONE (770) 532 - 1995
FAX (770) 532 - 1995

- NOT FOR FINAL RECORDING -

WATER MAIN CONSTRUCTION PLAN FOR:
FOR
NEW HORIZON PARTNERSHIP, LLC
CITY OF LOGANVILLE
WALTON COUNTY, GEORGIA

SHEET NUMBER
C6 OF 54
FILE NAME: 03-243.03 WATER

SCALE
1" = 100'

DATE
8/12/05

PROJECT NO.
03-243.03

STATE WATERS BUFFER:

A 25 FOOT UNDISTURBED VEGETATIVE BUFFER, ADJACENT TO ALL RUNNING STREAMS WILL BE LEFT AND MAINTAINED.

THIS SITE DOES CONTAIN STATE WATERS REQUIRING AN UNDISTURBED VEGETATIVE BUFFER.

Wetlands Certification:

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☐ DOES ☑ DOES NOT

indicate wetlands as shown on the map; and (3) if wetlands are indicated the landowner or developer has been advised that land disturbance of protected wetlands shall not occur unless the appropriate Section 404 Permit or Letter of

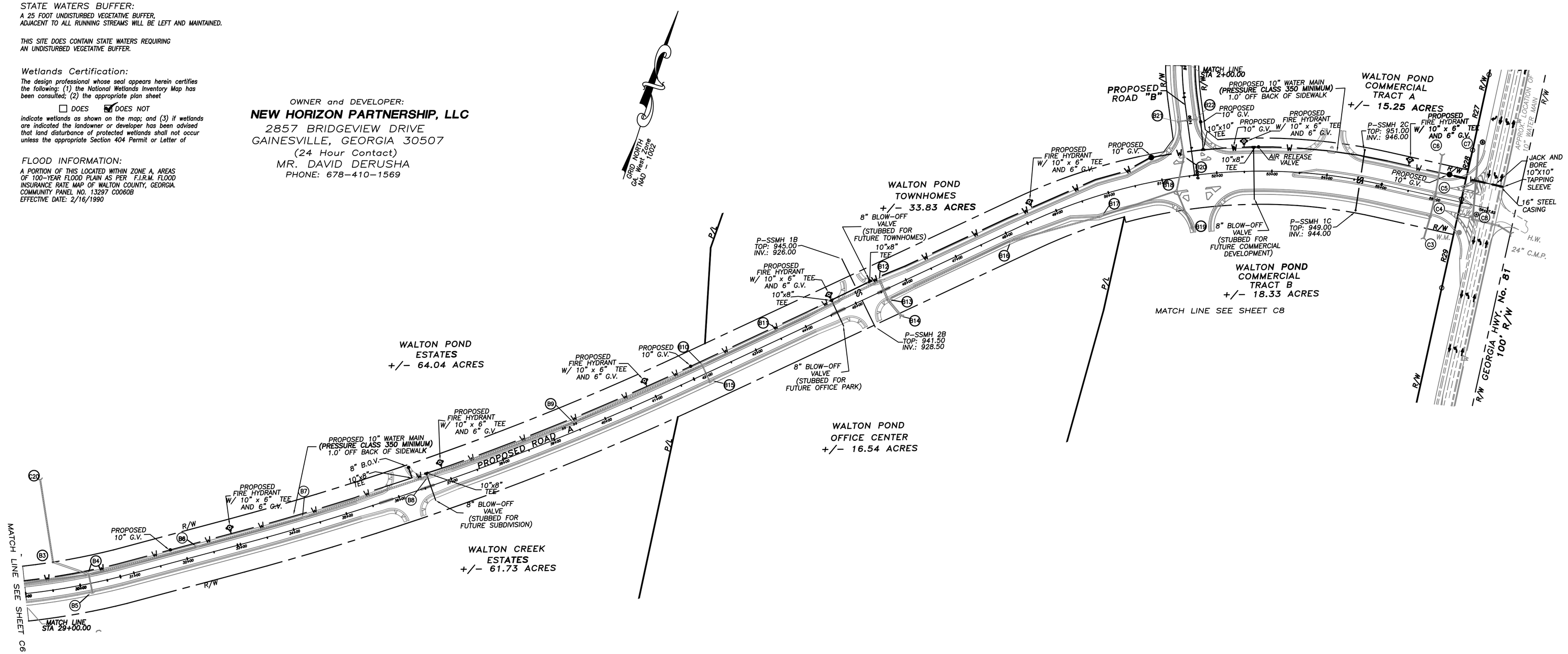
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OWNER and DEVELOPER:

NEW HORIZON PARTNERSHIP, LLC

2857 BRIDGEVIEW DRIVE
GAINESVILLE, GEORGIA 30507
(24 Hour Contact)
MR. DAVID DERUSHA
PHONE: 678-410-1569



LEGEND

⊙ I.P.F.	–	IRON PIN FOUND
⊙ C.T.F.	–	CRIMPED TOP PIN FOUND
⊙ R.B.F.	–	REBAR PIN FOUND
⊙ R.B.S.	–	REBAR PIN SET
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P/L	–	PROPERTY LINE
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C.M.P.	–	CORRUGATED METAL PIPE
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▦ W.I.	–	WEIR INLET
E.P.	–	EDGE OF PAVEMENT
B.C.	–	BACK OF CURB

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DATE	COMMENTS
12/05	ADDRESS COMMENTS
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GEORGIA REGISTERED No. 15702 PROFESSIONAL ENGINEER PAUL S. BOYER

GEORGIA REGISTERED No. 2647 LAND SURVEYOR CHRIS M. PATTON

THIS DRAWING, AS AN INSTRUMENT OF SERVICE, IS AND SHALL REMAIN THE PROPERTY OF THE ENGINEER AND SHALL NOT BE REPRODUCED, PUBLISHED, OR USED IN ANY WAY WITHOUT THE PERMISSION OF THE ENGINEER.

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AT THE SITE BEFORE PROCEEDING WITH EACH PHASE OF THE WORK.

Patton - Boyer, Inc.
LAND SURVEYORS & ENGINEERS
CIVIL CONSULTANTS
909 ATLANTA HIGHWAY
GAINESVILLE, GEORGIA 30501
(1877) 80 248 1502
PHONE (770) 532 – 6492
FAX (770) 532 – 1995

WATER MAIN CONSTRUCTION PLAN FOR:

FOR

NEW HORIZON PARTNERSHIP, LLC

CITY OF LOGANVILLE
WALTON COUNTY, GEORGIA

SHEET NUMBER
C7 OF 54

FILE NAME:
03-243.03 WATER

SCALE
1" = 100'

DATE
8/12/05

PROJECT NO.
03-243.03

STATE WATERS BUFFER:
A 25 FOOT UNDISTURBED VEGETATIVE BUFFER, ADJACENT TO ALL RUNNING STREAMS WILL BE LEFT AND MAINTAINED.

THIS SITE DOES CONTAIN STATE WATERS REQUIRING AN UNDISTURBED VEGETATIVE BUFFER.

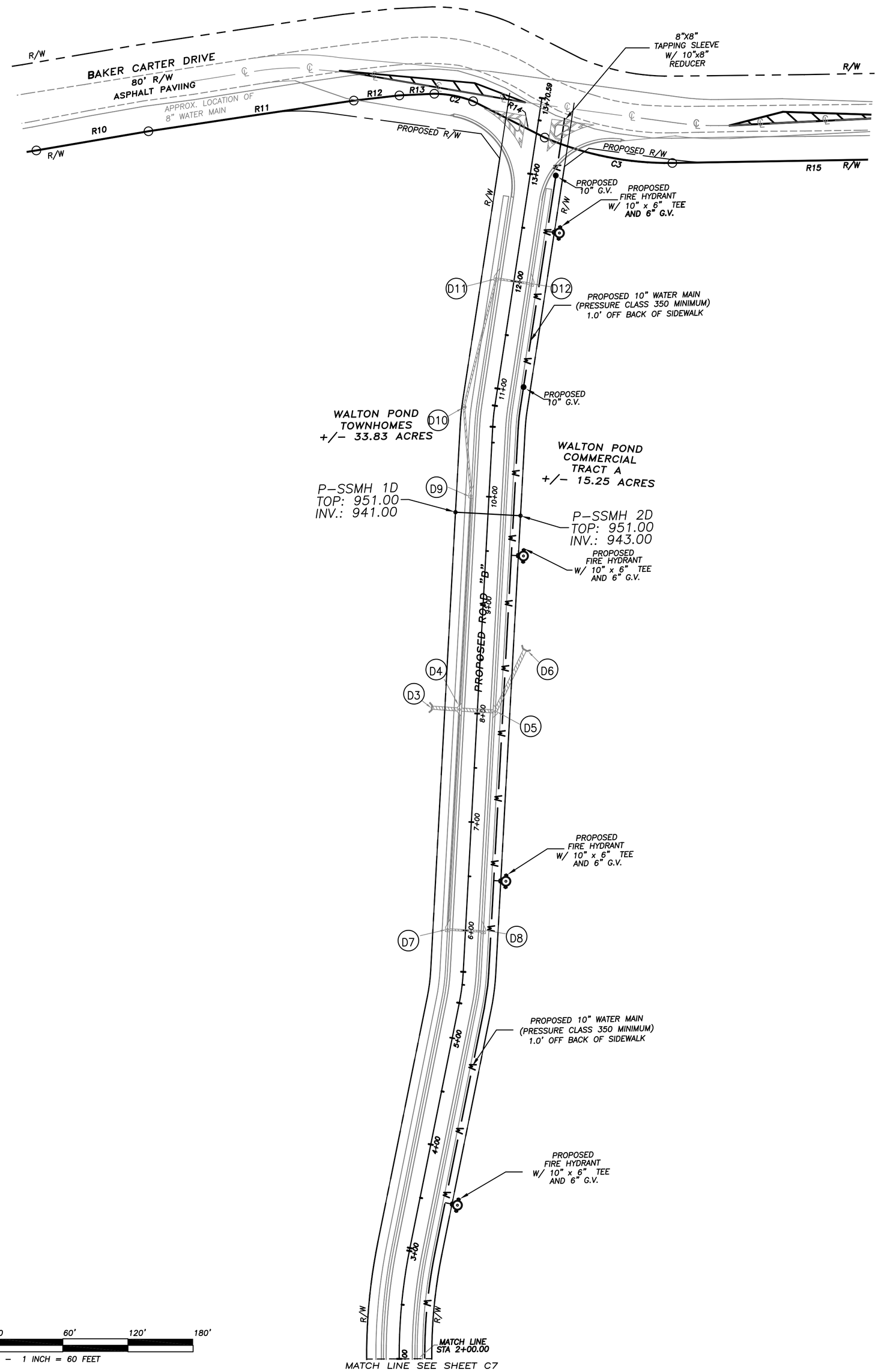
Wetlands Certification:
The design professional whose seal appears herein certifies the following: (1) the National Wetlands Inventory Map has been consulted; (2) the appropriate plan sheet

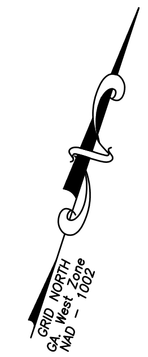
☐ DOES ☑ DOES NOT

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FLOOD INFORMATION:
A PORTION OF THIS LOCATED WITHIN ZONE A, AREAS OF 100-YEAR FLOOD PLAIN AS PER F.I.R.M. FLOOD INSURANCE RATE MAP OF WALTON COUNTY, GEORGIA. COMMUNITY PANEL NO. 13297 C0060B EFFECTIVE DATE: 2/16/1990

OWNER and DEVELOPER:
NEW HORIZON PARTNERSHIP, LLC
2857 BRIDGEVIEW DRIVE
GAINESVILLE, GEORGIA 30507
(24 Hour Contact)
MR. DAVID DERUSHA
PHONE: 678-410-1569





LEGEND:

⊙ I.P.F.	–	IRON PIN FOUND
⊙ C.T.F.	–	CRIMPED TOP PIN FOUND
⊙ R.B.F.	–	REBAR PIN FOUND
⊙ R.B.S.	–	REBAR PIN SET
⊙ O.T.F.	–	OPEN TOP FOUND
△ A.I.F.	–	ANGLE IRON FOUND
▣ C.M.F.	–	CONCRETE MONUMENT FOUND
P/L	–	PROPERTY LINE
R/W	–	RIGHT OF WAY
N/F	–	NOW OR FORMERLY
C/L	–	CENTER LINE
L.L.L.	–	LAND LOT LINE
◆ F.H.	–	FIRE HYDRANT
✱ G.V.	–	GATE VALVE
▣ W.M.	–	WATER METER
— W —	–	WATER MAIN
D.I.P.	–	DUCTILE IRON PIPE
PVC	–	POLYVINYL CHLORIDE PIPE
✱ P.P.	–	POWER POLE
✱ S.P.	–	SERVICE POLE
✱ T.P.	–	TELEPHONE POLE
☐ P.B.	–	POWER TRANSFORMER BOX
▣ T.R.	–	TELEPHONE RISER
— E —	–	ELECTRICAL LINE
— T —	–	TELEPHONE CABLE
— G —	–	GAS MAIN
C.M.P.	–	CORRUGATED METAL PIPE
B.C.C.M.P.	–	BITUMINOUS COATED CORRUGATED PIPE
R.C.P.	–	REINFORCED CONCRETE PIPE
C.B.	–	CATCH BASIN
⊗ J.B.	–	JUNCTION BOX
⊗ M.H.	–	STORM DRAIN MANHOLE
▣ W.I.	–	WEIR INLET
E.P.	–	EDGE OF PAVEMENT
B.C.	–	BACK OF CURB

BEFORE YOU DIG...
THE PRESENCE, SIZE, AND LOCATION OF THE EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED UPON INFORMATION OBTAINED FROM PREVIOUS CONSTRUCTION PLANS AND VISIBLE ABOVE GROUND STRUCTURES. THE ACTUAL LOCATION, SIZE, AND TYPE OF MATERIAL MAY VARY UPON EXCAVATION. THERE MAY BE OTHER EXISTING UTILITIES ON THIS SITE THAT ARE NOT SHOWN ON THIS PLAN. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES PRIOR TO ANY DEMOLITION, EXCAVATION, AND/OR CONSTRUCTION. THE CONTRACTOR IS ADVISED TO CONTACT THE LOCAL UNDERGROUND UTILITY LOCATOR SERVICE PRIOR TO ANY DEMOLITION, EXCAVATION, AND/OR CONSTRUCTION.

UTILITIES PROTECTION CENTER, INC.
Call FREE
THROUGHOUT GEORGIA
1 – 800 – 282 – 7411
IN ATLANTA: 325 – 5000
THREE WORKING DAYS BEFORE YOU DIG
ITS THE LAW

60' 0 60' 120' 180'
GRAPHIC SCALE – 1 INCH = 60 FEET

- NOT FOR FINAL RECORDING -

REVISIONS:

DATE	COMMENTS
12/05	ADDRESS COMMENTS
7/11/06	ADDRESS COMMENTS
11/16/06	ADD SEWER LINE D

SEAL

GEORGIA REGISTERED No. 18702 PROFESSIONAL ENGINEER PAUL S. BOYER

GEORGIA REGISTERED No. 2647 LAND SURVEYOR CHRIS W. PATTON

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(877) 80-248-6492
PHONE (770) 532 - 1995
FAX (770) 532 - 1995

WATER MAIN CONSTRUCTION PLAN FOR:
FOR
NEW HORIZON PARTNERSHIP, LLC
CITY OF LOGANVILLE
WALTON COUNTY, GEORGIA

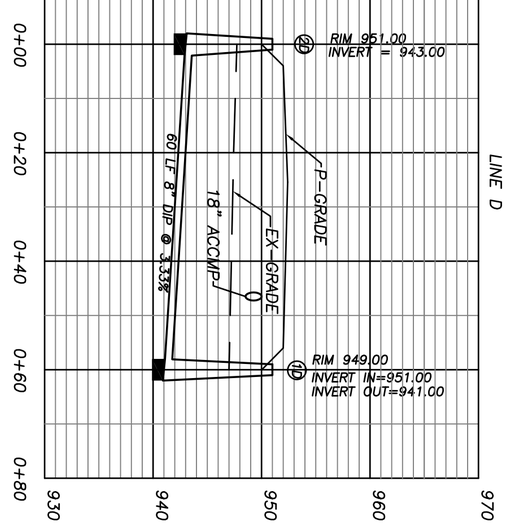
SHEET NUMBER
C8 OF 54
FILE NAME: 03-243.03 WATER
SCALE 1" = 60'
DATE 8/12/05
PROJECT NO. 03-243.03

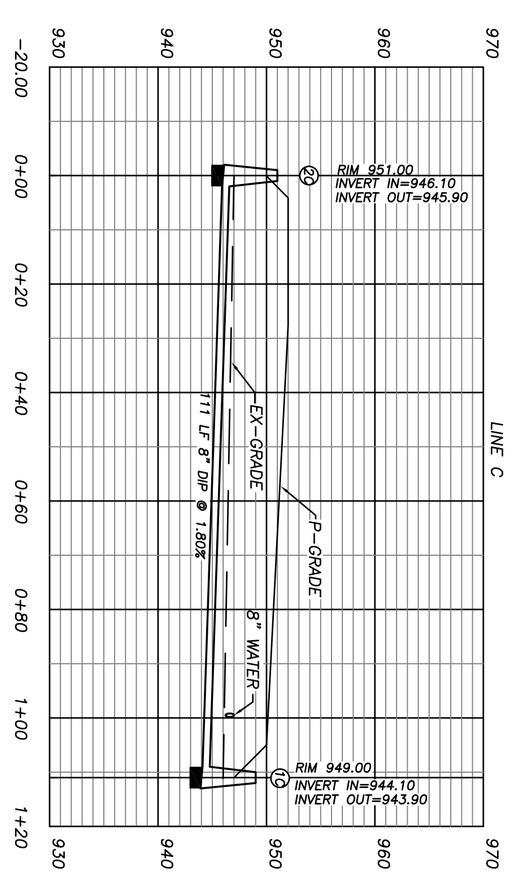
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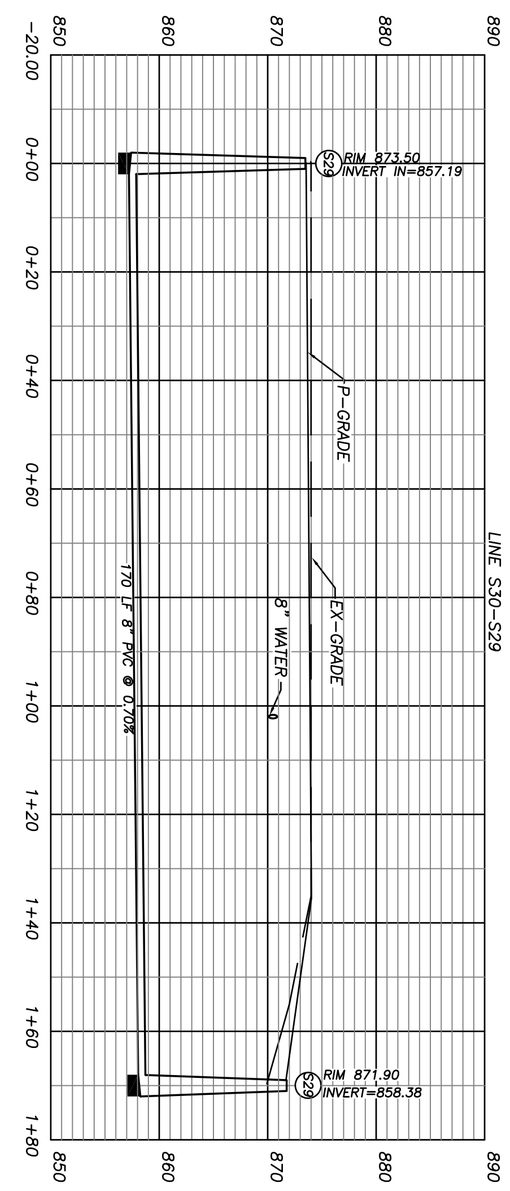
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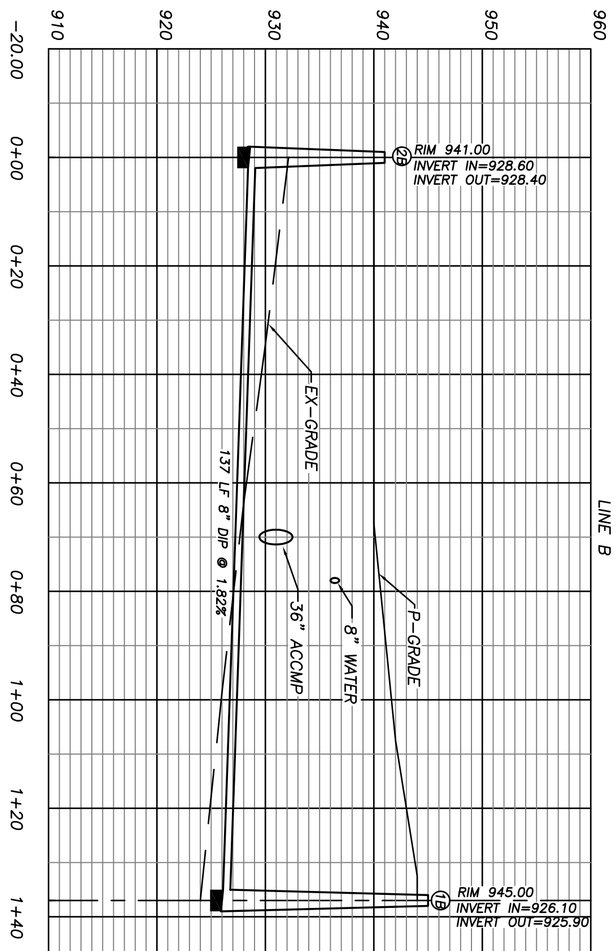
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0 20' 40' 60'
GRAPHIC SCALE – 1 INCH = 20 FEET

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SEWER PROFILES
FOR
NEW HORIZON PARTNERSHIP, LLC
CITY OF LOGANVILLE
WALTON COUNTY, GEORGIA

Patton – Boyer, Inc.
LAND SURVEYORS & CIVIL ENGINEERS
909 ATLANTA HIGHWAY
GAINESVILLE, GEORGIA 30501
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SEAL

GEORGIA REGISTERED No. 2641 CHRIS M. PATTON SURVEYOR

GEORGIA REGISTERED No. 19702 PROFESSIONAL ENGINEER PAUL S. BOYER

REVISIONS:	
DATE	COMMENTS
12/05	ADDRESS COMMENTS
7/11/06	ADDRESS COMMENTS
11/01/06	REVISED MH 1A
11/16/06	ADD SEWER LINE D

SHEET NUMBER C9 54 OF
FILE NAME: 03-243.03 WATER
SCALE 1" = 20'
DATE 8/12/05
PROJECT NO. 03-243.03

SOILS INFORMATION:

Soil Symbol	Soil Series	Slope	Erodibility	Permeability (in./ Hrs.)	Depth to Bedrock	Depth to Water Table	K Factor	Texture	Drainage
Alm	Alluvial Land	2–6 %	Severely	0.6–0.2	>72"	60"	.32	Sandy	Moderately Good
Alp	Alluvial Land, Mod. Wet	2–6 %	Moderate	2.0–6.0	>72"	0–30"	.32	Sandy	Poor
AnB3	Appling	2–6 %	Severely	0.6–2.0	>72"	>72"	.28	Sandy Clay Loam	Favorable
AnC3	Appling	6–10 %	Severely	0.6–2.0	>72"	60"	.28	Sandy Clay Loam	Favorable
AnD3	Appling	10–15 %	Severely	0.6–2.0	>72"	>8–20"	.28	Sandy Clay Loam	Favorable
AxB	Appling	2–6 %	Slight	0.6–2.0	>72"	>72"	.28	Coarse Sandy Loam	Favorable
AxB2	Appling	2–6 %	Moderate	0.6–2.0	>60"	>72"	.28	Coarse Sandy Loam	Favorable
AxC2	Appling	6–10 %	Moderate	0.6–2.0	48–63"	>72"	.28	Coarse Sandy Loam	Favorable
AxD2	Appling	10–15 %	Moderate	0.6–2.0	>72"	30–48"	.28	Coarse Sandy Loam	Favorable
CiB	Colfax	2–6 %	Slight	2.0–6.0	>60"	48–60"	.32	Sandy Loam	Poor
CZB3	Cecil	2–6 %	Severely	2.0–6.0	>10'	>5'	.28	Sandy Clay Loam	Favorable
CZC3	Cecil	6–10 %	Severely	2.0–6.0	>10'	>5'	.28	Sandy Clay Loam	Favorable
CZD3	Cecil	10–15 %	Severely	2.0–6.0	>10'	>5'	.28	Sandy Clay Loam	Favorable
CZD4	Cecil–Gullied Land	10–15 %	Severely	2.0–6.0	>10'	>5'	.28	Sandy Clay Loam	Favorable
DjB	Durham	2–6 %	Slight	2.0–6.0	>72"	>36"	.28	Loamy Coarse Sand	Well Drained
LCB	Louisburg	2–6 %	Slight	0.6–2.0	18"–48"	>60"	.28	Loamy Coarse Sand	Well Drained
LCC	Louisburg	6–10 %	Slight	0.6–2.0	18"–48"	>60"	.28	Loamy Coarse Sand	Well Drained
LCD	Louisburg	10–15 %	Slight	0.6–2.0	18"–48"	>60"	.28	Loamy Coarse Sand	Well Drained
MIC3	Madison	6–10 %	Severely	2.0–6.0	>72"	>60"	.28	Sandy Clay Loam	Seasonal High Water Table

STATE WATERS BUFFER:

A 25 FOOT UNDISTURBED VEGETATIVE BUFFER, ADJACENT TO ALL RUNNING STREAMS WILL BE LEFT AND MAINTAINED.

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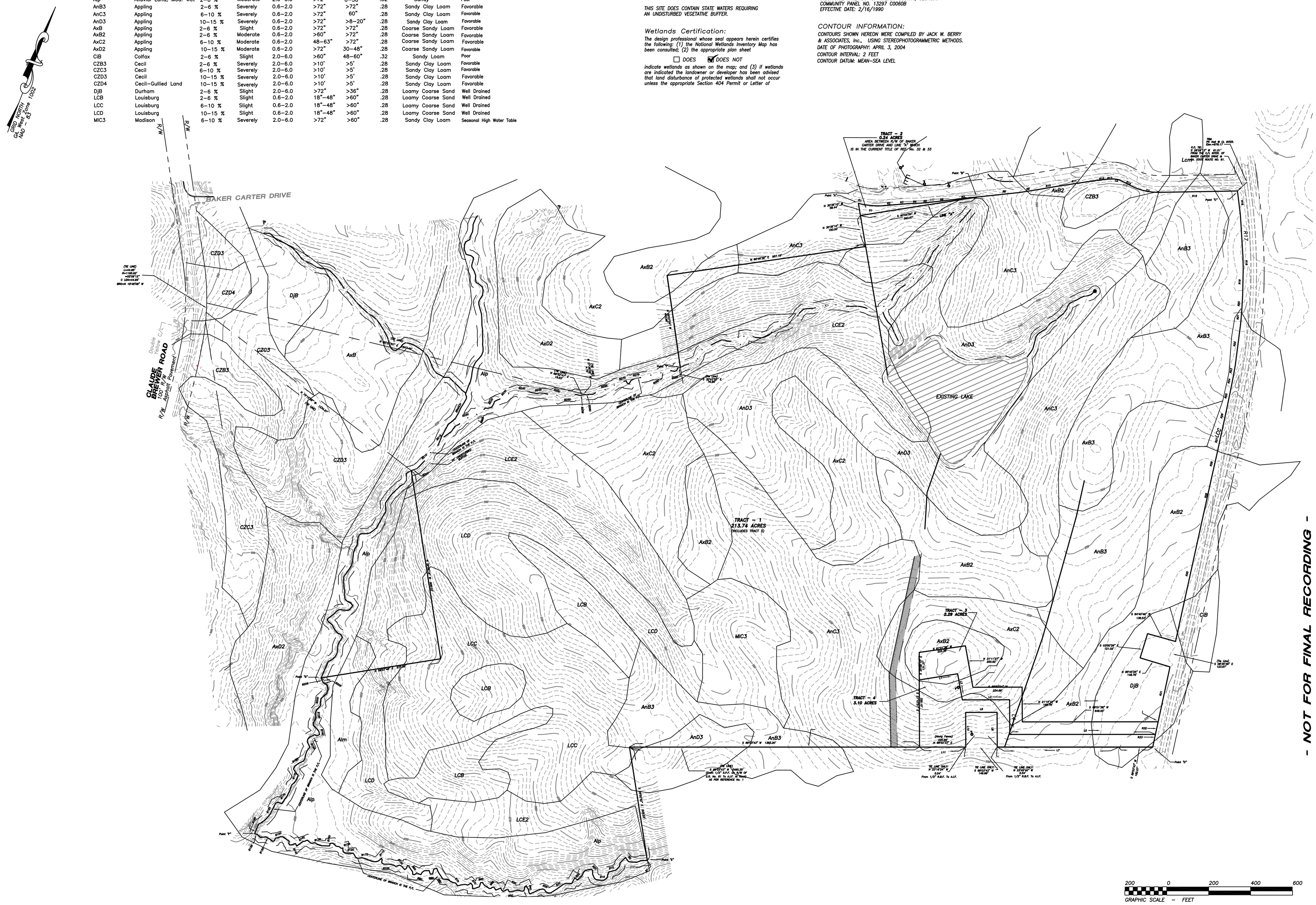
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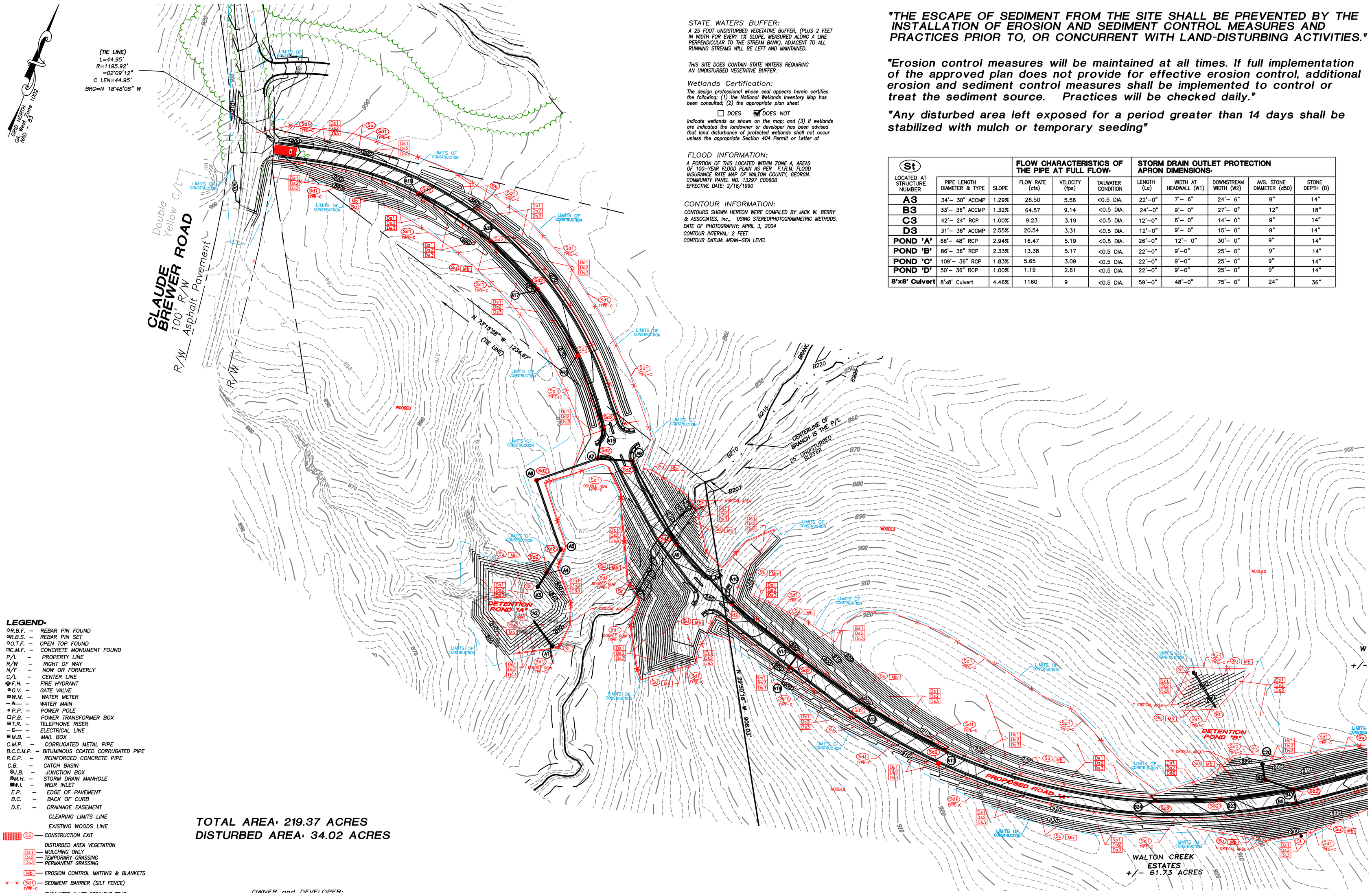
CONTOUR INFORMATION:

CONTOURS SHOWN HEREON WERE COMPILED BY JACK W. BERRY & ASSOCIATES, Inc., USING STEREOPHOTOGRAMMETRIC METHODS.
DATE OF PHOTOGRAPHY: APRIL 3, 2004
CONTOUR INTERVAL: 2 FEET
CONTOUR DATUM: MEAN–SEA LEVEL

SOILS INFORMATION:

SOIL INFORMATION TAKEN FROM SOIL SURVEY FOR WALTON COUNTY


GRID NORTH
GA West Zone 1002
NAD – 83
R/W
BAKER CARTER DRIVE
CLAUDE BRISENDINE ROAD
100' R/W
Asphalt Pavement
TRACT – 1
213.74 ACRES
(INCLUDES TRACT 5)
TRACT – 2
0.24 ACRES
AREA BETWEEN R/W OF BAKER CARTER DRIVE AND LINE "A" SHOWN IS IN THE CURRENT TITLE OF REC. No. 32 & 33
TRACT – 3
2.29 ACRES
TRACT – 4
3.10 ACRES
TRACT – 5
0.24 ACRES
AREA BETWEEN R/W OF BAKER CARTER DRIVE AND LINE "B" SHOWN IS IN THE CURRENT TITLE OF REC. No. 32 & 33
EXISTING LAKE
LINE "A"
LINE "B"
Point "A"
Point "B"
Point "C"
Point "D"
Point "E"
Point "F"
Point "G"
Point "H"
Point "I"
Point "J"
Point "K"
Point "L"
Point "M"
Point "N"
Point "O"
Point "P"
Point "Q"
Point "R"
Point "S"
Point "T"
Point "U"
Point "V"
Point "W"
Point "X"
Point "Y"
Point "Z"
CZD3
CZD4
DjB
AxB
AxC2
AxD2
Alp
CZB3
CZC3
LCE2
LCD
LCB
LCC
AnC3
AxB2
AnB3
AnD3
MIC3
AxB3
Alm
CiB
R/W 17
R/W 20
R/W 25
R/W 30
R/W 40
R/W 50
R/W 60
R/W 70
R/W 80
R/W 90
R/W 100
R/W 110
R/W 120
R/W 130
R/W 140
R/W 150
R/W 160
R/W 170
R/W 180
R/W 190
R/W 200
R/W 210
R/W 220
R/W



STATE WATERS BUFFER:

A 25 FOOT UNDISTURBED VEGETATIVE BUFFER, (PLUS 2 FEET IN WIDTH FOR EVERY 1% SLOPE, MEASURED ALONG A LINE PERPENDICULAR TO THE STREAM BANK), ADJACENT TO ALL RUNNING STREAMS WILL BE LEFT AND MAINTAINED.

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Wetlands Certification:

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DATE OF PHOTOGRAPHY: APRIL 3, 2004
CONTOUR INTERVAL: 2 FEET
CONTOUR DATUM: MEAN-SEA LEVEL

"THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH LAND-DISTURBING ACTIVITIES."

"Erosion control measures will be maintained at all times. If full implementation of the approved plan does not provide for effective erosion control, additional erosion and sediment control measures shall be implemented to control or treat the sediment source. Practices will be checked daily."

"Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding"

(St) LOCATED AT STRUCTURE NUMBER	PIPE LENGTH DIAMETER & TYPE	SLOPE	FLOW CHARACTERISTICS OF THE PIPE AT FULL FLOW. FLOW RATE (cfs)	VELOCITY (fps)	TAILWATER CONDITION	STORM DRAIN OUTLET PROTECTION APRON DIMENSIONS. LENGTH (La)	WIDTH AT HEADWALL (W1)	DOWNSTREAM WIDTH (W2)	AVG. STONE DIAMETER (d50)	STONE DEPTH (D)
A3	34'– 30" ACCMP	1.29%	26.50	5.56	<0.5 DIA.	22'–0"	7'– 6"	24'– 6"	9"	14"
B3	33'– 36" ACCMP	1.32%	64.57	9.14	<0.5 DIA.	24'–0"	9'– 0"	27'– 0"	12"	18"
C3	42'– 24" RCP	1.00%	9.23	3.19	<0.5 DIA.	12'–0"	6'– 0"	14'– 0"	9"	14"
D3	31'– 36" ACCMP	2.55%	20.54	3.31	<0.5 DIA.	12'–0"	9'– 0"	15'– 0"	9"	14"
POND 'A'	68'– 48" RCP	2.94%	16.47	5.19	<0.5 DIA.	26'–0"	12'– 0"	30'– 0"	9"	14"
POND 'B'	86'– 36" RCP	2.33%	13.38	5.17	<0.5 DIA.	22'–0"	9'–0"	25'– 0"	9"	14"
POND 'C'	109'– 36" RCP	1.83%	5.65	3.09	<0.5 DIA.	22'–0"	9'–0"	25'– 0"	9"	14"
POND 'D'	50'– 36" RCP	1.00%	1.19	2.61	<0.5 DIA.	22'–0"	9'–0"	25'– 0"	9"	14"
8'x8' Culvert	8'x8' Culvert	4.46%	1160	9	<0.5 DIA.	59'–0"	48'–0"	75'– 0"	24"	36"

LEGEND:

- ○R.B.F. – REBAR PIN FOUND
- ○R.B.S. – REBAR PIN SET
- ○O.T.F. – OPEN TOP FOUND
- ⊡C.M.F. – CONCRETE MONUMENT FOUND
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- M.H. – STORM DRAIN MANHOLE
- W.I. – WEIR INLET
- E.P. – EDGE OF PAVEMENT
- B.C. – BACK OF CURB
- D.E. – DRAINAGE EASEMENT
- CLEARING LIMITS LINE
- EXISTING WOODS LINE
- (Co) — CONSTRUCTION EXIT
- DISTURBED AREA VEGETATION
  - (Ds1) — MULCHING ONLY
  - (Ds2) — TEMPORARY GRASSING
  - (Ds3) — PERMANENT GRASSING
- (Mb) — EROSION CONTROL MATTING & BLANKETS
- (Sd1 TYPE-C) — SEDIMENT BARRIER (SILT FENCE)
- (Sd2) — EXCAVATED INLET SEDIMENT TRAP & CURB INLET FILTER
- (St) — STORM DRAIN OUTLET PROTECTION
- (Su) — SURFACE ROUGHENING
- (Rt) — RETROFITTING

100 0 100 200 300
GRAPHIC SCALE – FEET

TOTAL AREA: 219.37 ACRES
DISTURBED AREA: 34.02 ACRES

OWNER and DEVELOPER:
NEW HORIZON PARTNERSHIP, LLC
2857 BRIDGEVIEW DRIVE
GAINESVILLE, GEORGIA 30507
(24 Hour Contact)
MR. DAVID DERUSHA

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REVISIONS:

DATE	COMMENTS
10/13/05	PER SCS COMMENTS
12/05/05	PER COMMENTS
07/11/06	PER COMMENTS

SEAL

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GEORGIA REGISTERED No. 2647 LAND SURVEYOR CHRIS W. PATTON

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GAINESVILLE, GEORGIA 30501
PHONE (770) 532 – 6492
FAX (770) 532 – 1995

GRADING AND EROSION CONTROL PLAN:
FOR
NEW HORIZON PARTNERSHIP, LLC
CITY OF LOGANVILLE
WALTON COUNTY, GEORGIA

SHEET NUMBER
C11 OF 54
03-243.03 EROS

SCALE
1" = 100

DATE
8/12/05

PROJECT NO.
03-243.03

"THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH LAND-DISTURBING ACTIVITIES."

"Erosion control measures will be maintained at all times. If full implementation of the approved plan does not provide for effective erosion control, additional erosion and sediment control measures shall be implemented to control or treat the sediment source. Practices will be checked daily."

"Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding"

STATE WATERS BUFFER:

A 25 FOOT UNDISTURBED VEGETATIVE BUFFER, (PLUS 2 FEET IN WIDTH FOR EVERY 1% SLOPE, MEASURED ALONG A LINE PERPENDICULAR TO THE STREAM BANK), ADJACENT TO ALL RUNNING STREAMS WILL BE LEFT AND MAINTAINED.

THIS SITE DOES CONTAIN STATE WATERS REQUIRING AN UNDISTURBED VEGETATIVE BUFFER.

Wetlands Certification:

The design professional whose seal appears herein certifies the following: (1) the National Wetlands Inventory Map has been consulted; (2) the appropriate plan sheet

☐ DOES ☑ DOES NOT

indicate wetlands as shown on the map; and (3) if wetlands are indicated the landowner or developer has been advised that land disturbance of protected wetlands shall not occur unless the appropriate Section 404 Permit or Letter of

FLOOD INFORMATION:

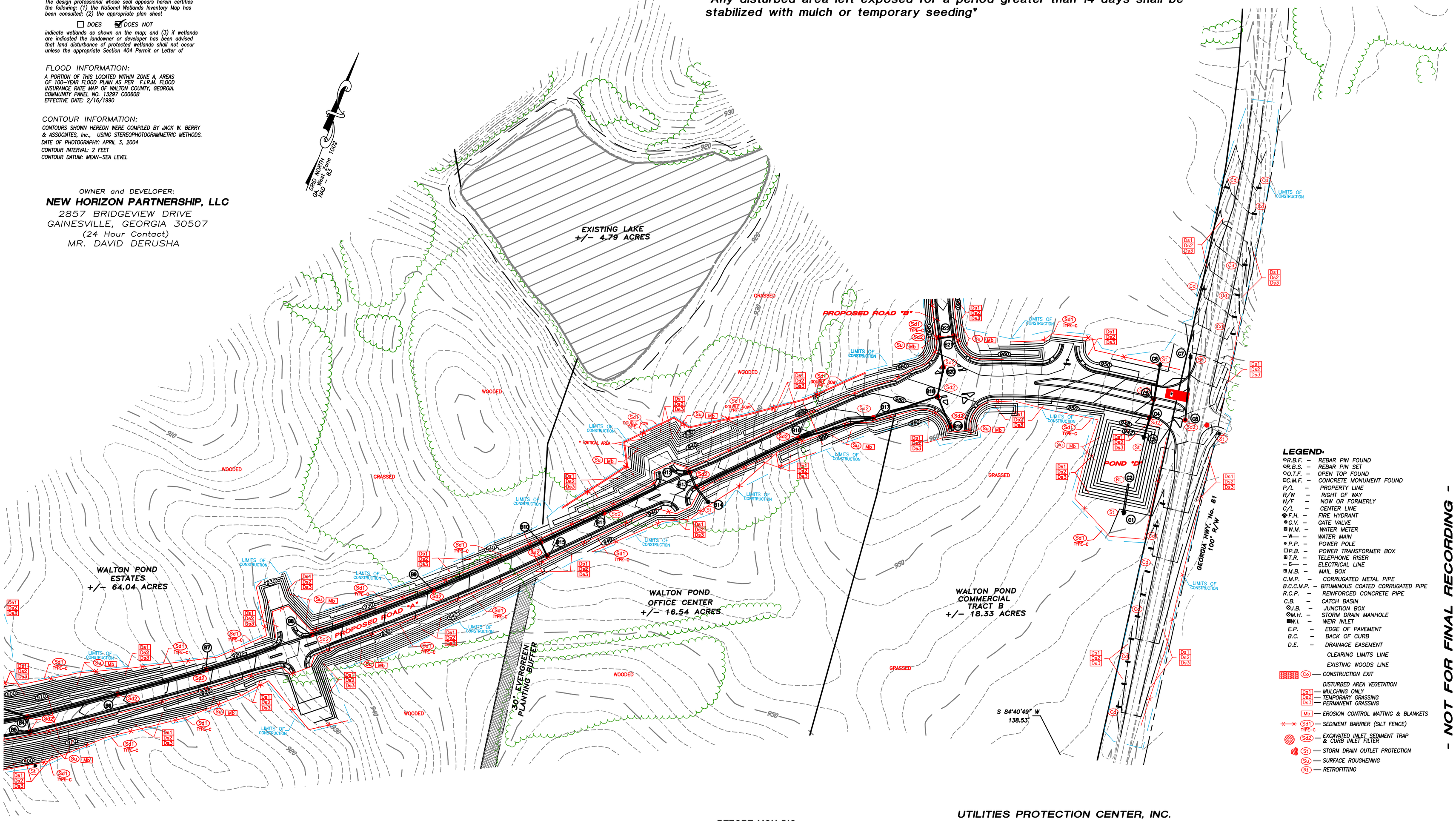
A PORTION OF THIS LOCATED WITHIN ZONE A, AREAS OF 100-YEAR FLOOD PLAIN AS PER F.I.R.M. FLOOD INSURANCE RATE MAP OF WALTON COUNTY, GEORGIA. COMMUNITY PANEL NO. 13297 C0060B EFFECTIVE DATE: 2/16/1990

CONTOUR INFORMATION:

CONTOURS SHOWN HEREON WERE COMPILED BY JACK W. BERRY & ASSOCIATES, Inc., USING STEREOPHOTOGRAMMETRIC METHODS.
DATE OF PHOTOGRAPHY: APRIL 3, 2004
CONTOUR INTERVAL: 2 FEET
CONTOUR DATUM: MEAN-SEA LEVEL

OWNER and DEVELOPER:
NEW HORIZON PARTNERSHIP, LLC
2857 BRIDGEVIEW DRIVE
GAINESVILLE, GEORGIA 30507
(24 Hour Contact)
MR. DAVID DERUSHA

GRID NORTH
Georgia West Zone
NAD 83 1002



LEGEND:

- ⊙R.B.F. – REBAR PIN FOUND
- ⊙R.B.S. – REBAR PIN SET
- ⊙O.T.F. – OPEN TOP FOUND
- ⊡C.M.F. – CONCRETE MONUMENT FOUND
- P/L – PROPERTY LINE
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- D.E. – DRAINAGE EASEMENT
- CLEARING LIMITS LINE
- EXISTING WOODS LINE
- Co — CONSTRUCTION EXIT
- DISTURBED AREA VEGETATION
- Ds1 — MULCHING ONLY
- Ds2 — TEMPORARY GRASSING
- Ds3 — PERMANENT GRASSING
- Mb — EROSION CONTROL MATTING & BLANKETS
- Sd1 TYPE-C — SEDIMENT BARRIER (SILT FENCE)
- Sd2 — EXCAVATED INLET SEDIMENT TRAP & CURB INLET FILTER
- St — STORM DRAIN OUTLET PROTECTION
- Su — SURFACE ROUGHENING
- Rt — RETROFITTING

TOTAL AREA: 219.37 ACRES
DISTURBED AREA: 34.02 ACRES

BEFORE YOU DIG...

THE PRESENCE, SIZE, AND LOCATION OF THE EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED UPON INFORMATION OBTAINED FROM PREVIOUS CONSTRUCTION PLANS AND VISIBLE ABOVE GROUND STRUCTURES. THE ACTUAL LOCATION, SIZE, AND TYPE OF MATERIAL MAY VARY UPON EXCAVATION. THERE MAY BE OTHER EXISTING UTILITIES ON THIS SITE THAT ARE NOT SHOWN ON THIS PLAN. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES PRIOR TO ANY DEMOLITION, EXCAVATION, AND/OR CONSTRUCTION. THE CONTRACTOR IS ADVISED TO CONTACT THE LOCAL UNDERGROUND UTILITY LOCATOR SERVICE PRIOR TO ANY DEMOLITION, EXCAVATION, AND/OR CONSTRUCTION.

UTILITIES PROTECTION CENTER, INC.

Call FREE
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1 – 800 – 282 – 7411
IN ATLANTA: 325 – 5000
THREE WORKING DAYS BEFORE YOU DIG
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100 0 100 200 300
GRAPHIC SCALE – FEET

REVISIONS:

DATE	COMMENTS
10/13/05	PER SCS COMMENTS
12/05/05	PER COMMENTS
07/11/06	PER COMMENTS

SEAL

GEORGIA REGISTERED No. 18702 PROFESSIONAL ENGINEER PAUL S. BOYER

GEORGIA REGISTERED No. 2641 LAND SURVEYOR CHRIS W. PATTON

THIS DRAWING, AS AN INSTRUMENT OF SERVICE, IS AND SHALL REMAIN THE PROPERTY OF THE ENGINEER AND SHALL NOT BE REPRODUCED, PUBLISHED, OR USED IN ANY WAY WITHOUT THE PERMISSION OF THE ENGINEER.

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AT THE SITE BEFORE PROCEEDING WITH EACH PHASE OF THE WORK.

Patton - Boyer Inc.
LAND SURVEYORS & CIVIL ENGINEERS
909 ATLANTA HIGHWAY
GAINESVILLE, GEORGIA 30501
(404) 534-2441
PHONE (770) 532-6492
FAX (770) 532-1995

- NOT FOR FINAL RECORDING -

GRADING AND EROSION CONTROL PLAN:
FOR
NEW HORIZON PARTNERSHIP, LLC
CITY OF LOGANVILLE,
WALTON COUNTY, GEORGIA

SHEET NUMBER
C12 54
OF
03-243.03 EROS

SCALE
1" = 100

DATE
8/12/05

PROJECT NO.
03-243.03

NARRATIVE:

I. DESCRIPTION:
THIS DEVELOPMENT IS LOCATED ON GA HWY 81 IN THE CITY OF LOGANVILLE, WALTON COUNTY, GEORGIA AND CONTAINS 273.39 ACRES. IMPROVEMENTS INCLUDE THE CONSTRUCTION OF A PROPOSED COLLECTOR ROAD DISTURBED ACREAGE: 34.02 ACRES TO BE DISTURBED (INCLUDING R/W) ZONED: CONDITIONAL ZONING, COMMERCIAL HIGHWAY DISTRICT, AND OFFICE AND INSTITUTIONAL DISTRICT

II. EXISTING SITE CONDITIONS:
TOPOGRAPHY: MODERATE TO STEEP SLOPE (5–33%)
VEGETATION: GRASSED AND KUDZU
DRAINAGE: SEE GRADING AND DRAINAGE PLAN

III. ADJACENT AREAS:
NORTH: BAKER CARTER ROAD AND RESIDENTIAL ZONING
MODERATE TO STEEP SLOPE (5–33%)
EAST: GA HWY 81
WEST: CLAUDE BREWER ROAD AND RESIDENTIAL ZONING
MODERATE TO STEEP SLOPE (5–33%)
SOUTH: RESIDENTIAL ZONING
MODERATE TO STEEP SLOPE (5–33%)

IV. CRITICAL AREAS: CARE SHALL BE TAKEN TO PROTECT NEARBY AREAS FROM SEDIMENT INFILTRATION. NO FLOODING OR CHANNEL DEGRADATION SHALL RESULT FROM DEVELOPMENT. SPECIAL ATTENTION WILL BE GIVEN TO FILLS OVER 5' IN HEIGHT.

V. GRADING:
DISTURBED EARTH VOLUME: (ESTIMATED)
FILL: 126,147 CY CUT: 127,800 CY

VI. PROPOSED CONSTRUCTION DATES:
BEGINNING: JUNE 2006
FINAL STABILIZATION: DECEMBER 2006

VII. EROSION CONTROL PLAN:
CLEARING TO BE KEPT TO A MINIMUM. A STONE PAD (Co) TO BE PLACED AT CONSTRUCTION EXIT TO PREVENT MUD TRACKING FROM THE SITE. ALL SLOPES TO BE SURFACE ROUGHENED (Su) TO PREVENT EXCESSIVE WASHING OF SLOPES. VEGETATION AND MULCH (Ds2,Ds3) WILL BE APPLIED TO APPLICABLE AREAS IMMEDIATELY AFTER GRADING IS COMPLETED. LAND DISTURBING WILL BE SCHEDULED TO LIMIT EXPOSURE OF BARE SOILS TO EROSIVE ELEMENTS. ALL EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO BEGINNING ANY LAND DISTURBING ACTIVITY.

VIII. SEDIMENT CONTROL PROGRAM:
SEDIMENT CONTROL WILL BE ACCOMPLISHED BY THE INSTALLATION OF REINFORCED SILT FENCE (Sd1) ALONG TOE OF ALL FILL SLOPES. INLET SEDIMENT TRAPS (Sd2) WILL BE USED AT ALL STORM DRAIN INLETS TO PREVENT SILT FROM ENTERING THE STORM DRAIN SYSTEM. VEGETATION AND MULCH (Ds2,Ds3) WILL BE APPLIED TO APPLICABLE AREAS TO PREVENT DUST AND SEDIMENT FROM LEAVING THESE AREAS. ALL SEDIMENT CONTROL MEASURES SHALL BE IN PLACE PRIOR TO BEGINNING LAND DISTURBING ACTIVITY.

IX. STANDARDS AND SPECIFICATIONS:
ALL DESIGNS WILL CONFORM TO AND ALL WORK WILL BE PERFORMED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE PUBLICATION ENTITLED "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA", LATEST EDITION.

X. MAINTENANCE STATEMENT:
SEDIMENT AND EROSION CONTROL MEASURES WILL BE INSPECTED DAILY. ANY DAMAGE OBSERVED WILL BE REPAIRED BY THE END OF THE DAY. CLEANOUT OF SEDIMENT CONTROL STRUCTURES WILL BE ACCOMPLISHED IN ACCORDANCE WITH THE SPECIFICATIONS AND SEDIMENT DISPOSAL ACCOMPLISHED BY SPREADING ON THE SITE. SEDIMENT BASINS AND BARRIERS WILL REMAIN IN PLACE UNTIL SEDIMENT CONTRIBUTING AREAS ARE STABILIZED. THE SEDIMENT FENCES AND BARRIERS WILL THEN BE REMOVED, AND THE AREAS OCCUPIED BY THESE STRUCTURES VEGETATED. GUIDELINES FOR THE MAINTENANCE OF ESTABLISHED VEGETATION WILL BE PROVIDED TO THE OWNER WHEN ALL DISTURBED AREAS ARE STABILIZED. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTION.

XI. "THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES SHALL TAKE PLACE PRIOR TO OR CONCURRENT WITH LAND DISTURBING ACTIVITIES."

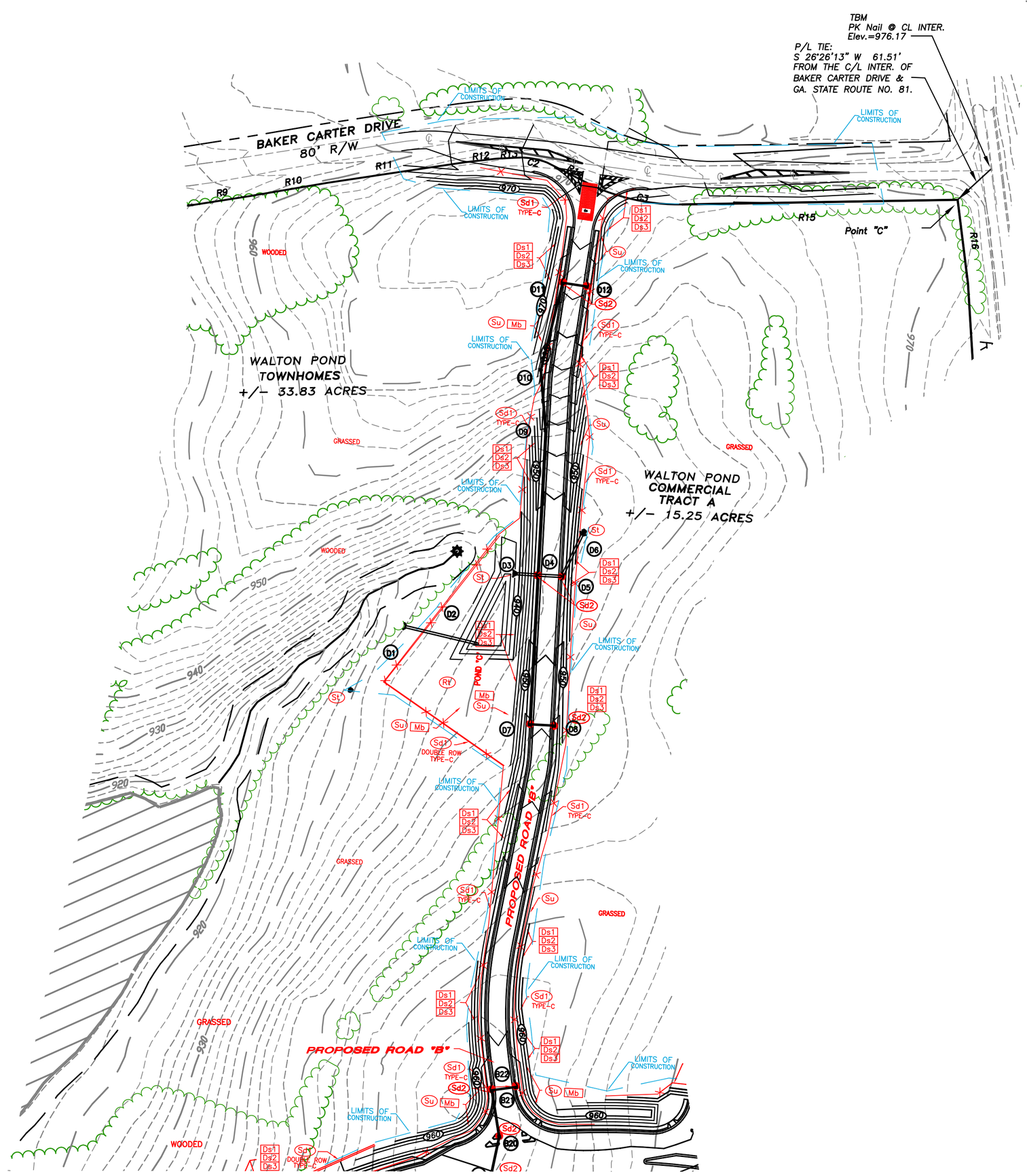
XII. PERMANENT STABILIZATION:
SITE TO BE STABILIZED BY MULCHING AND VEGETATING DISTURBED AREAS WITH GRASS (SEE GRASSING RATES DETAIL)

GRID NORTH
GA West Zone 1002
NAD – 83

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DATE OF PHOTOGRAPHY: APRIL 3, 2004
CONTOUR INTERVAL: 2 FEET
CONTOUR DATUM: MEAN–SEA LEVEL

2006

CONSTRUCTION SCHEDULE:	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
CLEARING / STUMP REMOVAL							
EROSION & SEDIMENT CONTROL INSTALLATION & MAINTENANCE							
GRADING							
TEMPORARY VEGETATION							
PAVING							
PERMANENT VEGETATION							
REMOVE TEMPORARY STRUCTURES							

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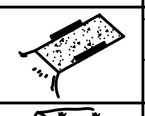
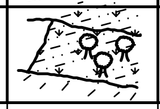
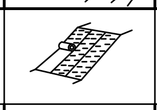
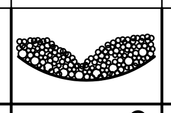
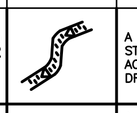
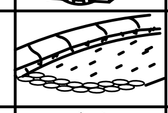
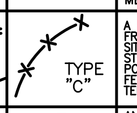
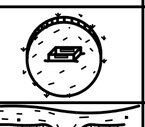
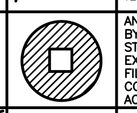
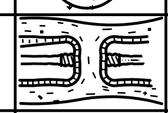
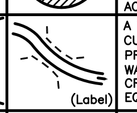
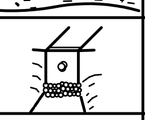
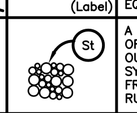
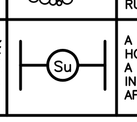
GRADING AND EROSION CONTROL PLAN:
FOR
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CITY OF LOGANVILLE
WALTON COUNTY, GEORGIA

SHEET NUMBER
C13 OF 54
03–243.03 EROS

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PROJECT NO.
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CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Co	CONSTRUCTION EXIT			A CRUSHED STONE PAD LOCATED AT THE CONSTRUC–TION SITE EXIT TO PROVIDE A PLACE FOR REMOVING MUD FROM TIRES THEREBY PROTECTING PUBLIC STREETS.
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)		Ds1	ESTABLISHING TEMPORARY PROTECTION FOR DISTURBED AREAS WHERE SEEDINGS MAY NOT HAVE A SUITABLE GROWING SEASON TO PRODUCE AN EROSION RETARDING COVER.
Ds2	DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)		Ds2	ESTABLISHING A TEMPORARY VEGETATIVE COVER WITH FAST GROWING SEEDINGS ON DISTURBED AREAS.
Ds3	DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)		Ds3	ESTABLISHING PERMANENT VEGETATIVE COVER SUCH AS TREES, SHRUBS, VINES, GRASSES, SOD, OR LEGUMES ON DISTURBED AREAS.
Mb	EROSION CONTROL MATTING AND BLANKETS		Mb	The installation of a protective covering (blanket) or soil stabilization mat on a prepared planting area of a steep slope, channel, or shoreline.
Rd	ROCK FILTER DAM			A PERMANENT OR TEMPORARY STONE FILTER DAM INSTALLED ACROSS SMALL STREAMS OR DRAINAGEWAYS.
Rt	RETROFITTING		Rt	A DEVICE OR STRUCTURE PLACED IN FRONT OF A PERMA–NENT STORMWATER DETENTION POND OUTLET STRUCTURE TO SERVE AS A TEMPORARY SEDI–MENT FILTER.
Sd1	SEDIMENT BARRIER			A BARRIER TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION SITE. IT MAY BE SANDBAGS, BALES OF STRAW OR HAY, BRUSH, LOGS AND POLES, GRAVEL, OR A SEDIMENT FENCE. THE BARRIERS ARE USUALLY TEMPORARY AND INEXPENSIVE.
Sd2	SEDIMENT TRAP, TEMPORARY			AN IMPOUNDING AREA CREATED BY EXCAVATING AROUND A STORM DRAIN DROP INLET. THE EXCAVATED AREA WILL BE FILLED AND STABILIZED ON COMPLETION OF CONSTRUCTION ACTIVITIES.
Sr	STREAM CROSSING, TEMPORARY			A TEMPORARY BRIDGE OR CULVERT–TYPE STRUCTURE PROTECTING A STREAM OR WATERCOURSE FROM DAMAGE BY CROSSING CONSTRUCTION EQUIPMENT.
St	STORM DRAIN OUTLET PROTECTION			A PAVED OR SHORT SECTION OF RIPRAP CHANNEL AT THE OUTLET OF A STORM DRAIN SYSTEM PREVENTING EROSION FROM THE CONCENTRATED RUNOFF.
Su	SURFACE ROUGHENING			A ROUGH SOIL SURFACE WITH HORIZONTAL DEPRESSIONS ON A CONTOUR OR SLOPES LEFT IN A ROUGHENED CONDITION AFTER GRADING.

LOCATION

A TEMPORARY CONSTRUCTION EXIT SHALL BE LOCATED AT EVERY ACCESS/EGRESS POINT OF THE CONSTRUCTION SITE WHERE EQUIPMENT AND/OR TRAFFIC LEAVES THE CONSTRUCTION AREA AND ENTERS A PUBLIC ROAD OR EXISTING PAVED AREA OF THE SITE WHICH IS NOT INVOLVED IN THE CURRENT PROJECT.

SIZE

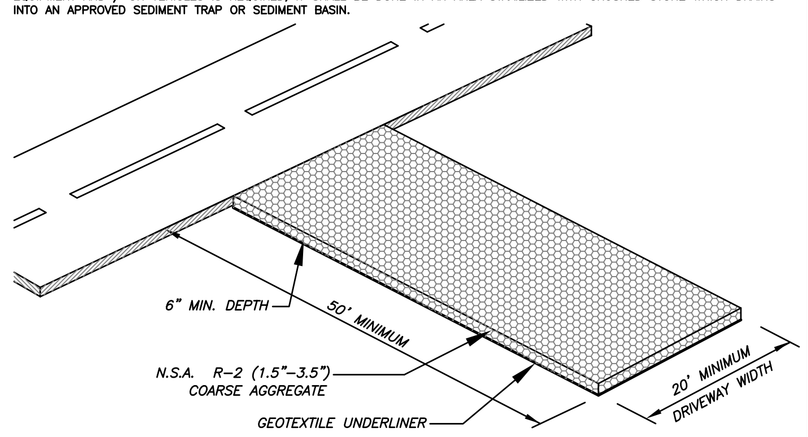
WIDTH – THE TEMPORARY CONSTRUCTION EXIT SHALL HAVE A MINIMUM WIDTH OF 30 FEET BUT SHALL NOT BE LESS THAN THE FULL WIDTH OF THE VEHICULAR ACCESS AREA.
LENGTH – MINIMUM LENGTH OF 50 FEET.

MAINTENANCE REQUIREMENTS

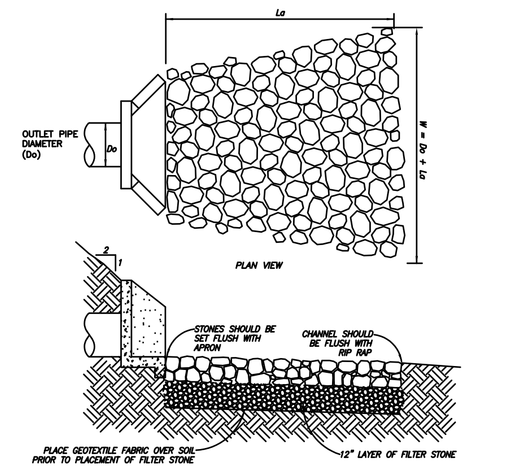
THE TEMPORARY CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR THE FLOW OF MUD ONTO PUBLIC RIGHTS–OF–WAY OR UNDISTURBED PAVED AREAS. THE EXIT MAY REQUIRE PERIODIC DRESSING WITH FRESH AND CLEAN #2 STONE AS CONDITIONS DICTATE. ALL MATERIALS (MUD, SOIL, SEDIMENT, ETC) SPILLED, DROPPED, WASHED, OR TRACKED FROM THE CONSTRUCTION AREA ONTO ROADWAYS AND OTHER PAVED AREAS SHALL BE REMOVED IMMEDIATELY.

GENERAL

WHEELS MUST BE CLEANED TO REMOVE MUD AND OTHER DEBRIS PRIOR TO ENTERING ONTO PAVED AREAS. WHEN WASHING OF EQUIPMENT AND / OR VEHICLES IS REQUIRED, IT SHALL BE DONE IN AN AREA STAAILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.



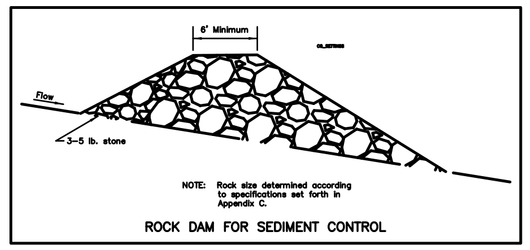
TEMPORARY CONSTRUCTION EXIT DETAIL (Co)



SECTION VIEW

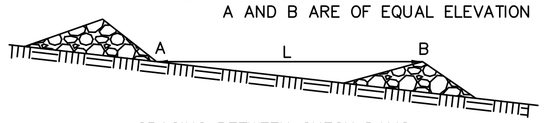
1. STONE FOR RIP RAP SHALL HAVE A MINIMUM SIZE OF 5" AND A MAXIMUM SIZE OF 12". INDIVIDUAL STONES SHALL WEIGH AT LEAST 50 POUNDS BUT NOT MORE THAN 100 POUNDS.
2. RIP RAP MAY BE FIELD STONE, ROUGH QUARRY STONE, OR CONCRETE RUBBLE. IT SHOULD BE HARD, ANGULAR, HIGHLY WEATHER RESISTING, AND WELL GRADED. THE STONE SHOULD HAVE A MINIMUM DENSITY OF 150#/CUBIC FOOT AND A MINIMUM THICKNESS OF 12". CRUSHER RUN OR POND SCREENINGS ARE NOT ACCEPTABLE.
3. RIP RAP MAY BE PLACED BY HAND OR MACHINE. RIP RAP SHOULD BE PLACED BY HAND AROUND HEADWALLS AND OTHER STRUCTURES TO AVOID DAMAGE TO THE STRUCTURE.
4. FILTER MATERIAL SHALL BE A 12" THICK LAYER OF #57 STONE OR 2" STONE. CRUSHER RUN OR POND SCREENINGS ARE ACCEPTABLE.

St *STORM DRAIN OUTLET PROTECTION DETAIL*

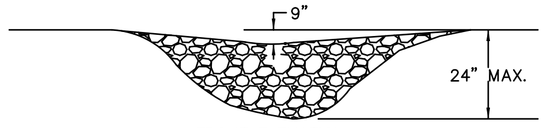


ROCK DAM FOR SEDIMENT CONTROL

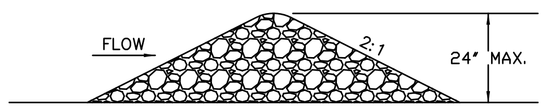
L = THE DISTANCE SUCH THAT POINTS A AND B ARE OF EQUAL ELEVATION



SPACING BETWEEN CHECK DAMS

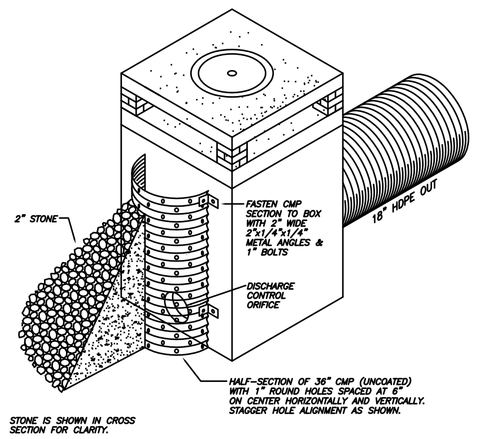


FRONT ELEVATION



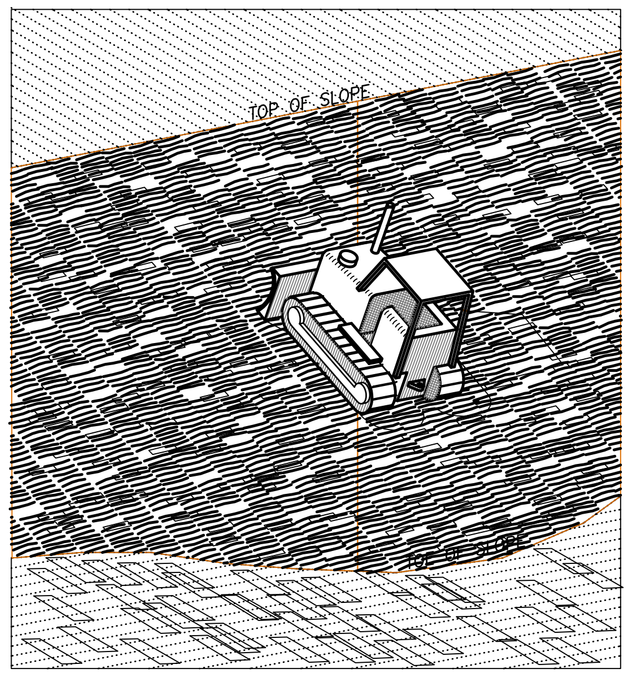
SIDE ELEVATION

(Cd) CHECK DAM



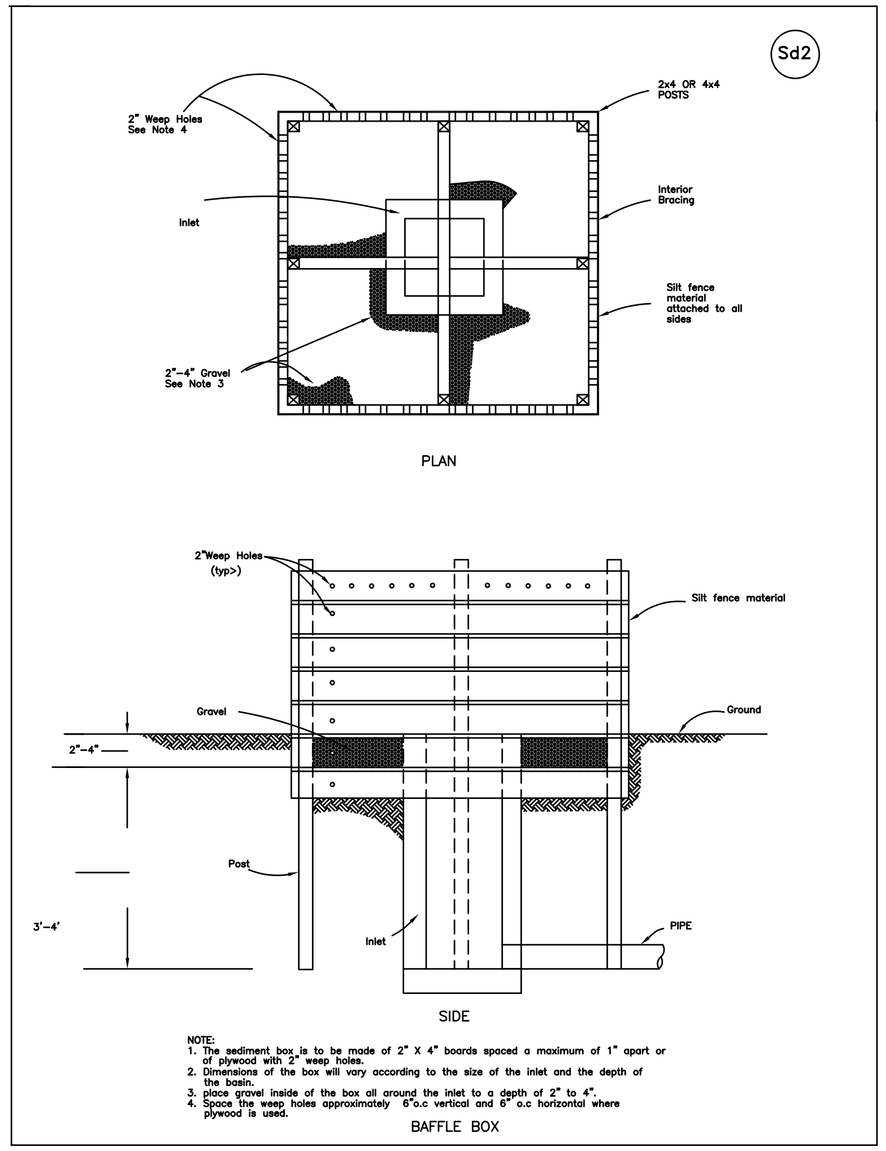
STONE IS SHOWN IN CROSS SECTION FOR CLARITY.

Rt
TO BE ATTACHED TO DISCHARGE CONTROL STRUCTURE



1. USE BULLDOZER INSTEAD OF FRONT END LOADER. FRONT END LOADERS HAVE SMOOTHER PADS ON THEIR TRACKS AND WILL NOT LEAVE GROOVES IN THE SLOPE.
2. GROUSER BARS ON DOZER TRACKS CREATE GROOVES PERPENDICULAR TO THE SLOPE.
3. DO NOT BACK DRAG THE SLOPE WITH THE DOZER BLADE ON THE FINAL PASS. FINISHED SLOPE IS TO BE COVERED WITH DOZER TRACKS AS SHOWN.
4. TRACKS IN SLOPE HELP HOLD GRASS SEED AND FERTILIZER IN PLACE AND AID IN SLOWING DOWN SURFACE WATER RUNNING DOWN SLOPE.

(Su) *SURFACE ROUGHENING DETAIL*



NOTE:
1. The sediment box is to be made of 2" X 4" boards spaced a maximum of 1" apart or of plywood with 2" weep holes.
2. Dimensions of the box will vary according to the size of the inlet and the depth of the basin.
3. place gravel inside of the box all around the inlet to a depth of 2" to 4".
4. Space the weep holes approximately 6"o.c vertical and 6" o.c horizontal where plywood is used.

BAFFLE BOX

Ds1 *MULCHING ONLY*

MULCHING SHALL CONSIST OF MATERIALS SUCH AS WHEAT STRAW OR GRASS HAY, PINE NEEDLES, SAWDUST, BARK, CHIPS, OR SHREDDED RESIDUES (CROPS, LEAVES, ETC.)

MATERIALS	RATE
GRAIN STRAW OR GRASS HAY	4–6" DEEP OR 7 BALES/1000 SF
PINE NEEDLES	4–6" DEEP OR 7 BALES/1000 SF
WOOD CHIPS	4–6" DEEP
SHREDDED RESIDUE	4–6" DEEP

Ds2 *TEMPORARY GRASSING*

TEMPORARY GRASSING SHALL CONSIST OF SOWING A QUICK GRASS SUCH AS RYE, BROWN TOP MILLET, OR A GRASS SUITABLE TO THE AREA AND SEASON. LIME AND FERTILIZER WILL BE OMITTED. MULCH IS NOT REQUIRED BUT SHOULD BE USED AS DICTATED BY SITE CONDITIONS.

SPECIES	RATE	PLANTING DATES
RYE GRASS	40–50#/ACRE	AUGUST – JANUARY
BROWN MILLET	30–40#/ACRE	APRIL – JULY
RYE	130–140#/ACRE	FEBRUARY – MARCH

DO NOT USE RYE GRASS IN MIXTURES, USE RYE GRAIN. RYE GRASS SHOULD ONLY BE USED ALONE ON AREAS THAT WILL BE DISTRUBED AT A LATER DATE (FUTURE PAVING, FUTURE BUILDING, ETC.)

Ds3 *PERMANENT GRASSING*

PERMANENT GRASSING SHALL CONSIST OF GROUND PREPARATION, LIMING, FERTILIZATION, MULCHING, AND SEEDING. THE GROUND SHALL BE PREPARED BY PLOWING AND DISKING TO A DEPTH NOT LESS THAN 4". FERTILIZER AND LIME SHALL BE UNIFORMLY MIXED WITH INTO THE GROUND, FERTILIZER AT THE RATE OF 1500#/ACRE AND LIME AT THE RATE OF 2 TON/ACRE. THE GROUND SHALL BE FINISHED OFF SMOOTH AND UNIFORM AND BE FREE OF ROCKS, CLODS, ROOTS, AND WEEDS. FERTILIZER SHALL BE 4–12–12, 6–12–12, OR 5–10–15. WEATHER PERMITTING, SEEDING SHALL BE DONE WITHIN 24 HOURS OF FERTILIZER APPLICATION. SEED SHALL BE UNIFORMLY SPREAD AT AT THE RATES SHOWN BELOW. MULCHING IS REQUIRED AND SHALL BE DONE IMMEDIATELY AFTER SEEDING. MULCH SHALL BE UNIFORMLY APPLIED OVER THE AREA LEAVING APPROXIMATELY 25% OF THE GROUND SURFACE EXPOSED. THE RATE OF APPLICATION SHALL BE DOUBLED ON SLOPES STEEPER THAN 4:1.

SPECIES	RATE	PLANTING DATES
TALL FESCUE	50#/ACRE	SEPTEMBER – OCTOBER
LESPEDEZA	40#/ACRE	MARCH – JULY
BERMUDA, COMMON (HULLED SEED)	10#/ACRE	APRIL–MAY

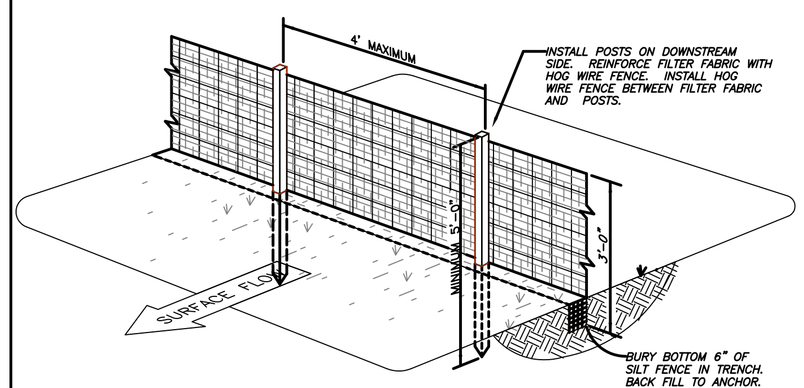
USE EL INOCULANT ON LESPEDEZA SEED. FOR SPRING PLANTING OF LESPEDEZA, MAKE SURE THE SEED IS SCARIFIED.

TEMPORARY AND PERMANENT VEGETATION SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF CHAPTER 6 OF "THE MANUAL FOR EROSION AND SEDIMENTATION CONTROL IN GEORGIA".

DISTURBED AREA STABILIZATION

Ds1 **Ds2** **Ds3** *DISTURBED AREA STABILIZATION*

1. SILT FENCE SHALL CONSIST OF WATER PERMEABLE FILTER MATERIAL COMPOSED OF STRONG ROT PROOF SYNTHETIC FIBERS FORMED INTO A MATRIX OF WOVEN FABRIC. THE FABRIC SHALL BE A PERVIOUS SHEET OF SYNTHETIC FIBERS ORIENTED IN A STABLE NETWORK SUCH THAT THE FIBERS RETAIN THEIR RELATIVE POSITION WITH RESPECT TO EACH OTHER. THE FABRIC SHALL BE FREE OF ANY TREATMENT OR COATING WHICH COULD ALTER THE FABRIC'S ABILITY TO WITHSTAND EXPOSURE TO PROLONGED SUNLIGHT OR HEAT.
2. THE EDGES OF THE FABRIC SHALL BE FINISHED TO PREVENT THE OUTER STRAND FROM PULLING AWAY FROM THE MATERIAL. THE FABRIC SHALL BE FREE OF DEFECTS OR FLAWS WHICH SIGNIFICANTLY AFFECT IT'S STRENGTH OR FILTERING PROPERTIES.
3. THE FABRIC SHALL HAVE A MINIMUM HEIGHT OF 36".
4. SHEETS OF FABRIC MAY BE SEWN OR BONDED TOGETHER TO FORM CONTINUOUS PIECES. NO DEVIATION FROM ANY STANDARD OR SPECIFICATION WILL BE PERMITTED DUE TO THE PRESENCE OF A SEAM.
5. STEEL POSTS ONLY.
6. FASTENERS CAN BE EITHER APPROVED STAPLES OR BUTTON HEAD NAILS. WIRE STAPLES SHALL BE A MINIMUM OF 17 GAUGE AND SHALL HAVE A CROWN WIDTH OF NO LESS THAN THREE–QUARTERS OF AN INCH. STAPLES SHALL BE EVENLY SPACED WITH A MINIMUM APPLICATION RATE OF 5 STAPLES PER POST. NAILS SHALL BE A MINIMUM OF 14 GAUGE, 1 INCH IN LENGTH, AND HAVE A MINIMUM THREE–QUARTER INCH HEAD. NAILS SHALL BE EVENLY SPACED WITH A MINIMUM APPLICATION RATE OF 4 NAILS PER POST.
7. TEMPORARY SILT FENCE INSTALLATION SHALL CONFORM TO THE STANDARDS SET FORTH IN THE GEORGIA SOIL CONSERVATION'S SERVICE "MANUAL FOR EROSION & SEDIMENT CONTROL IN GEORGIA".
8. THE CONTRACTOR SHALL MAINTAIN THE SILT FENCE UNTIL THE LAND DISTURBING ACTIVITY IS COMPLETE AND FINAL STABILIZATION IS ACHIEVED. FILTER FABRIC SHALL REMOVED AND REPLACED WHENEVER IT HAS DETERIORATED OR OTHERWISE BEEN DAMAGED TO SUCH AN EXTENT THAT IT REDUCES THE EFFECTIVENESS OF THE SILT FENCE.



(Sd1) *SEDIMENT BARRIER DETAIL*
TYPE C SILT FENCE

REVISIONS

NO.	DATE	REMARKS
1	12/05	COMMENTS
2.	7/11	COMMENTS

SEAL

GEORGIA REGISTERED No. 18702 PROFESSIONAL ENGINEER PAUL S. BOYER

THIS DRAWING, AS AN INSTRUMENT OF SERVICE, IS AND SHALL REMAIN THE PROPERTY OF THE ENGINEER AND SHALL NOT BE REPRODUCED, PUBLISHED OR USED IN ANY WAY WITHOUT THE PERMISSION OF THE ENGINEER.

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AT THE SITE BEFORE PROCEEDING WITH EACH PHASE OF THE WORK.

Patton–Boyer, Inc.
LAND SURVEYORS & CIVIL ENGINEERS
601 ATLANTA HWY
GAINESVILLE, GEORGIA 30501
PHONE (770) 532 – 6492
FAX (770) 532 – 1995

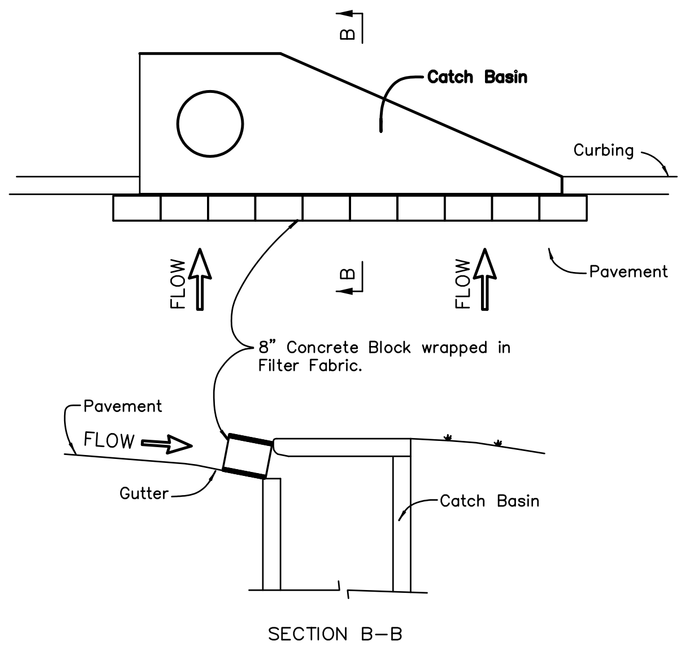
EROSION DETAILS:
FOR
NEW HORIZON PARTNERSHIP, LLC
CITY OF LOGANVILLE
WALTON COUNTY, GEORGIA
LAND LOTS 156, 157, 183, AND 184 – 4TH DISTRICT

SHEET NUMBER
C14 54
of
03–243.03 COVER

SCALE
N/A

DATE
8/12/05

PROJECT NO.
03–243.03



SECTION B–B

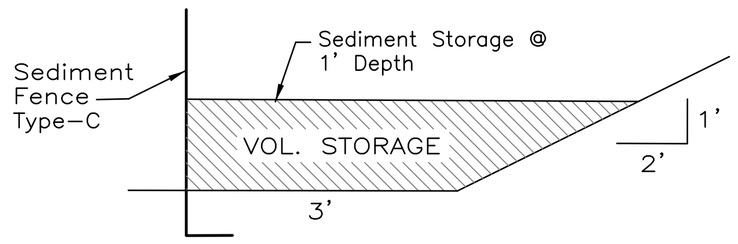
NOTE:
Install filter after any asphalt pavement installation.

Sd2 *CURB INLET FILTER DETAIL*

UTILIZING Sd1, (Sediment Barrier), FOR SEDIMENT STORAGE:

Storage Capacity is Computed at the Cleanout level of 1/2 height of Sediment fence times the entire length of silt fence.

AREA PER LF OF SEDIMENT FENCE x LINEAR LENGTH OF SEDIMENT FENCE:
3 SF x 24,958 LF = 74,874 CF = 2773 CY



STORAGE REQUIRED: 67 C.Y./ ACRE X 31.72 ACRES DISTURBED = 2125 C.Y.
STORAGE PROVIDE: 2773 C.Y.

Pond A
Retrofitting - Storage Calculations

1. *Required stormwater storage = 5190 cy (as determined by local ordinance)*
2. *Required sediment storage = 1620 cy (67 cy/ac * 24.18 ac disturbed area)*
3. *Total Required Storage = 5190 (1) + 1620 (2) = 6810 (3) cy*
4. *Available Storage = 7362 cy*
5. *Is the available storage (4) greater than the total required storage (3) ?*
   X yes ___no
6. *If "no", the sediment storage capacity of the pond must be increased. Choose the method to be used:*
   ___Raise the invert of the outlet structure _____ inches
   ___Undercut the pond _____ feet
   ___Other _____
7. *Clean–out elevation = 835.79 ft (Elevation corresponding to 22 cy/ac * 24.18 ac disturbed area)*
8. *Is the length–width ratio 2:1 or greater ?*
   X yes ___no
9. *If "no", the length of flow must be increased. Choose the method to be used:*
   ___ Baffles (Type of baffle:_____.)
   ___Other_____

Note the CMP diameter and height *if a half–round CMP retrofit is to be used.*
Diameter = 36 inches Height = 5.0 feet

Pond B
Retrofitting - Storage Calculations

1. *Required stormwater storage = 4700 cy (as determined by local ordinance)*
2. *Required sediment storage = 417 cy (67 cy/ac * 6.22 ac disturbed area)*
3. *Total Required Storage = 4700 (1) + 417 (2) = 5117 (3) cy*
4. *Available Storage = 8393 cy*
5. *Is the available storage (4) greater than the total required storage (3) ?*
   X yes ___no
6. *If "no", the sediment storage capacity of the pond must be increased. Choose the method to be used:*
   ___Raise the invert of the outlet structure _____ inches
   ___Undercut the pond _____ feet
   ___Other _____
7. *Clean–out elevation = 884.51 ft (Elevation corresponding to 22 cy/ac * 6.22 ac disturbed area)*
8. *Is the length–width ratio 2:1 or greater ?*
   X yes ___no
9. *If "no", the length of flow must be increased. Choose the method to be used:*
   ___ Baffles (Type of baffle:_____.)
   ___Other_____

Note the CMP diameter and height *if a half–round CMP retrofit is to be used.*
Diameter = 36 inches Height = 5.0 feet

Pond C
Retrofitting - Storage Calculations

1. *Required stormwater storage = 1254 cy (as determined by local ordinance)*
2. *Required sediment storage = 114 cy (67 cy/ac * 1.70 ac disturbed area)*
3. *Total Required Storage = 1254 (1) + 114 (2) = 1368 (3) cy*
4. *Available Storage = 1984 cy*
5. *Is the available storage (4) greater than the total required storage (3) ?*
   X yes ___no
6. *If "no", the sediment storage capacity of the pond must be increased. Choose the method to be used:*
   ___Raise the invert of the outlet structure _____ inches
   ___Undercut the pond _____ feet
   ___Other _____
7. *Clean–out elevation = 932.25 ft (Elevation corresponding to 22 cy/ac * 1.70 ac disturbed area)*
8. *Is the length–width ratio 2:1 or greater ?*
   X yes ___no
9. *If "no", the length of flow must be increased. Choose the method to be used:*
   ___ Baffles (Type of baffle:_____.)
   ___Other_____

Note the CMP diameter and height *if a half–round CMP retrofit is to be used.*
Diameter = 36 inches Height = 5.0 feet

Pond D
Retrofitting - Storage Calculations

1. *Required stormwater storage = 1285 cy (as determined by local ordinance)*
2. *Required sediment storage = 129 cy (67 cy/ac * 1.92 ac disturbed area)*
3. *Total Required Storage = 1285 (1) + 129 (2) = 1414 (3) cy*
4. *Available Storage = 2974 cy*
5. *Is the available storage (4) greater than the total required storage (3) ?*
   X yes ___no
6. *If "no", the sediment storage capacity of the pond must be increased. Choose the method to be used:*
   ___Raise the invert of the outlet structure _____ inches
   ___Undercut the pond _____ feet
   ___Other _____
7. *Clean–out elevation = 940.36 ft (Elevation corresponding to 22 cy/ac * 1.92 ac disturbed area)*
8. *Is the length–width ratio 2:1 or greater ?*
   X yes ___no
9. *If "no", the length of flow must be increased. Choose the method to be used:*
   ___ Baffles (Type of baffle:_____.)
   ___Other_____

Note the CMP diameter and height *if a half–round CMP retrofit is to be used.*
Diameter = 36 inches Height = 5.0 feet

Erosion Control Matting and Blankets (Mb)

Materials

All blanket and matting materials shall be on the Georgia Department of Transportation Qualified Products List (QPL # 62 for blankets, QPL # 49 for matting).

All blankets shall be nontoxic to vegetation and to the germination of seed and shall not be injurious to the unprotected skin of humans. At a minimum, the plastic netting shall be interwtined with the mulching material/fiber to maximize strength and provide for ease of handling.

Temporary Blankets

Machine produced temporary combination blankets shall have a consistent thickness with the organic material evenly distributed over the entire blanket area. All combination blankets shall have a minimum width of 48 inches. Machine produced combination blankets include the following:

a. **Straw blankets** are combination blankets that consist of weed-free straw from agricultural crops formed into a blanket. Blankets with a top side of photodegradable plastic mesh with a maximum mesh size of 5/16 x 5/16 inch and sewn to the straw with biodegradable thread is appropriate for slopes. The blanket shall have a minimum thickness of 3/8 inch and minimum dry weight of 0.5 pounds per square yard.

b. **Excelsior blankets** are combination blankets that consist of curled wood excelsior (80% of fibers are six inches or longer) formed into a blanket. The blanket shall have easy markings indicating the top side of the blanket and be smolder resistant. Blankets shall have photodegradable plastic mesh having a maximum mesh size of 1 1/2 x 3 inches. The blanket shall have a minimum thickness of 1/4 of an inch and a minimum dry weight of 0.8 pounds per square yard. Slopes require excelsior matting with the top side of the blanket covered in the plastic mesh, and for waterways, both sides of the blanket require plastic mesh.

c. **Coconut fiber blankets** are combination blankets that consist of 100% coconut fiber formed into a blanket. The minimum thickness of the blanket shall be 1/4 of an inch with a minimum dry weight of 0.5 pounds per square yard. Blankets shall have photodegradable plastic mesh, with a maximum mesh size of 3/8 x 3/8 inch and sewn to the fiber with a breakdown resistant synthetic yarn. Plastic mesh is required on both sides of the blanket if used in waterways. A maximum of two inches is allowable for the stitch pattern and row spacing.

d. **Wood fiber blankets** are combination blankets that consist of reprocessed wood fibers that do not possess or contain any growth or germination inhibiting factors. The blanket shall have a photodegradable plastic mesh, with a maximum mesh size of 5/8 x 3/4 inch, securely bonded to the top of the mat. The blanket shall have a minimum dry weight of 0.35 pounds per square yard. A maximum of two inches is allowable for the stitch pattern and row spacing. This practice shall be applied only to slopes.

e. **Jute Mesh** can be applied to slopes. Jute mesh with a 48 inch width shall show between 76 and 80 warplangs and a one yard length shall show between 39 to 43 weftings. The woven mesh shall be at least 45 inches wide. Yarn shall have a unit weight of at least 0.9 pounds per square yard, but not more than 1.5 pounds per square yard.

Site Preparation

After the site has been shaped and graded to the approved design, prepare a friable seedbed relatively free from clods and rocks more than one inch in diameter, and any foreign material that will prevent contact of the soil stabilization mat with the soil surface. Surface must be smooth to ensure proper contact of blankets or matting to the soil surface. If necessary, redirect any runoff from the ditch or slope during installation.

Staples

The following are considered appropriate stapling and staking materials.

Temporary Blankets

This includes straw, excelsior, coconut fiber, and wood fiber blankets. Staples shall be used to anchor temporary blankets. U-shaped wire (11 gauge or greater) staples with legs at least 6 inches in length and a crown of one inch or appropriate biodegradable staples can be used. Staples shall be of sufficient thickness for soil penetration without undue distortion.

Planting

Lime, fertilizer, and seed shall be applied in accordance with seeding or other type of planting plan completed prior to installation of temporary combination blankets or jute mesh. For permanent mats, the area must be brought to final grade, plowed, limed, and fertilized. After the permanent mat has been installed and backfilled, the entire area shall be grassed. Refer to specification **Ds3 - Disturbed Area Stabilization (With Permanent Vegetation).**

Installation

See Figure 6-7.1 for typical installation guidelines. Follow manufacturer's recommendations for laying and stapling.

Maintenance

All erosion control blankets and matting should be inspected periodically following installation, particularly after rainstorms to check for erosion and undermining. Any dislocation or failure should be repaired immediately. If washouts or breakage occurs, reinstall the material after repairing damage to the slope or ditch. Continue to monitor these areas until they become permanently stabilized.

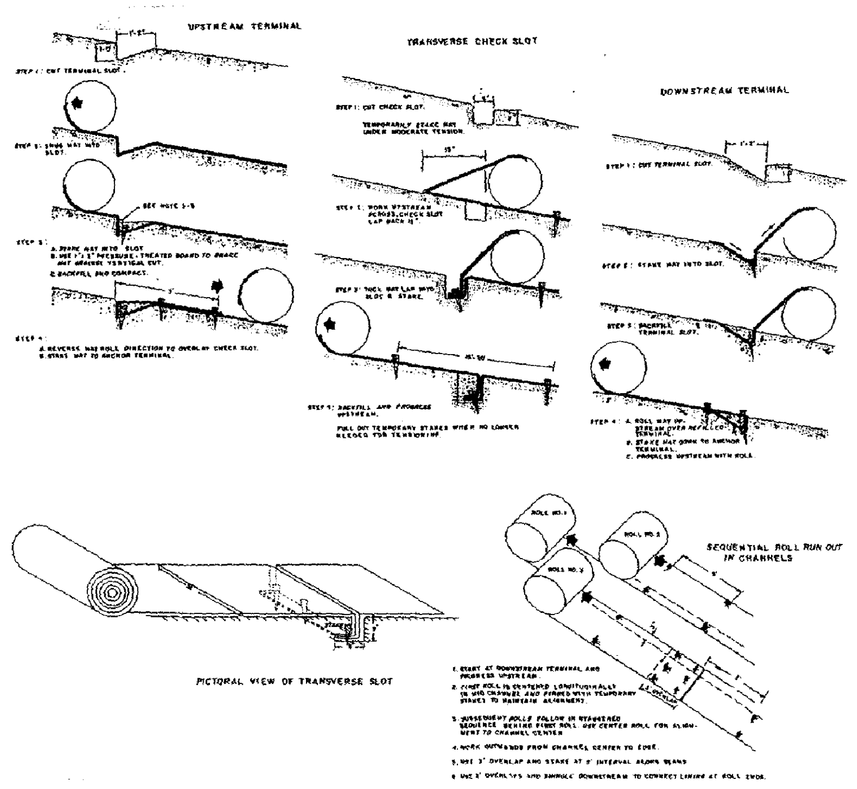
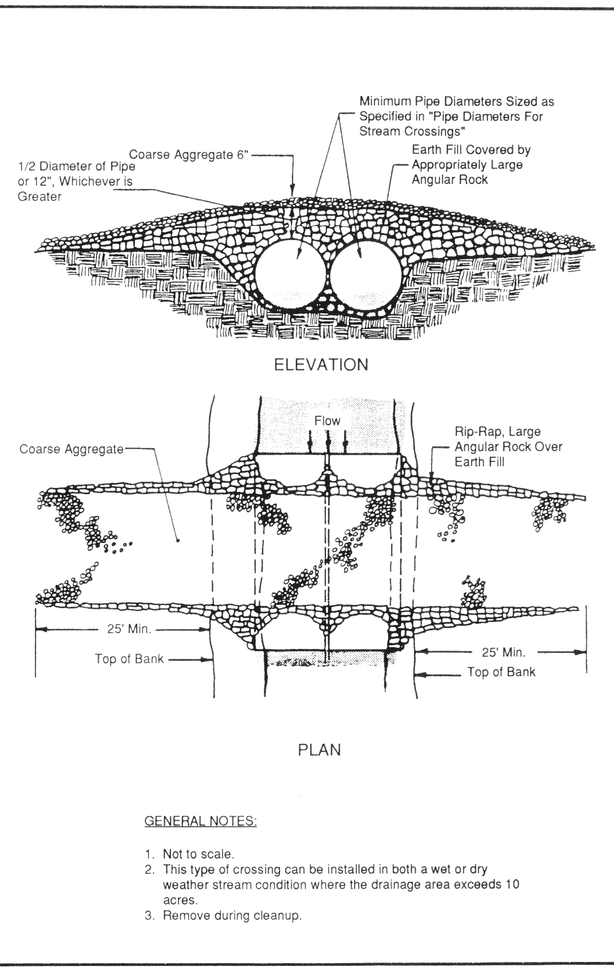


Figure 6-7.1 - Typical installation guidelines for matting and blankets



GENERAL NOTES:

1. Not to scale.
2. This type of crossing can be installed in both a wet or dry weather stream condition where the drainage area exceeds 10 acres.
3. Remove during cleanup.

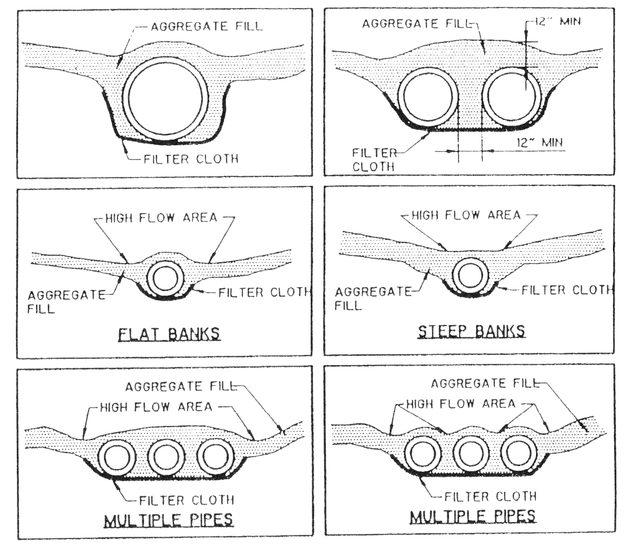


Figure 6-23.3 - Configuration of temporary culvert crossing.

REVISIONS

NO.	DATE	REMARKS
1	12/05	COMMENTS
2.	7/11	COMMENTS

SEAL

GEORGIA REGISTERED No. 18702 PROFESSIONAL ENGINEER PAUL S. BOYER

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Patton-Boyer, Inc.
LAND SURVEYORS & CIVIL ENGINEERS
604 ATLANTA HWY
GAINESVILLE, GEORGIA 30501
PHONE (770) 532 – 6492
FAX (770) 532 – 1995

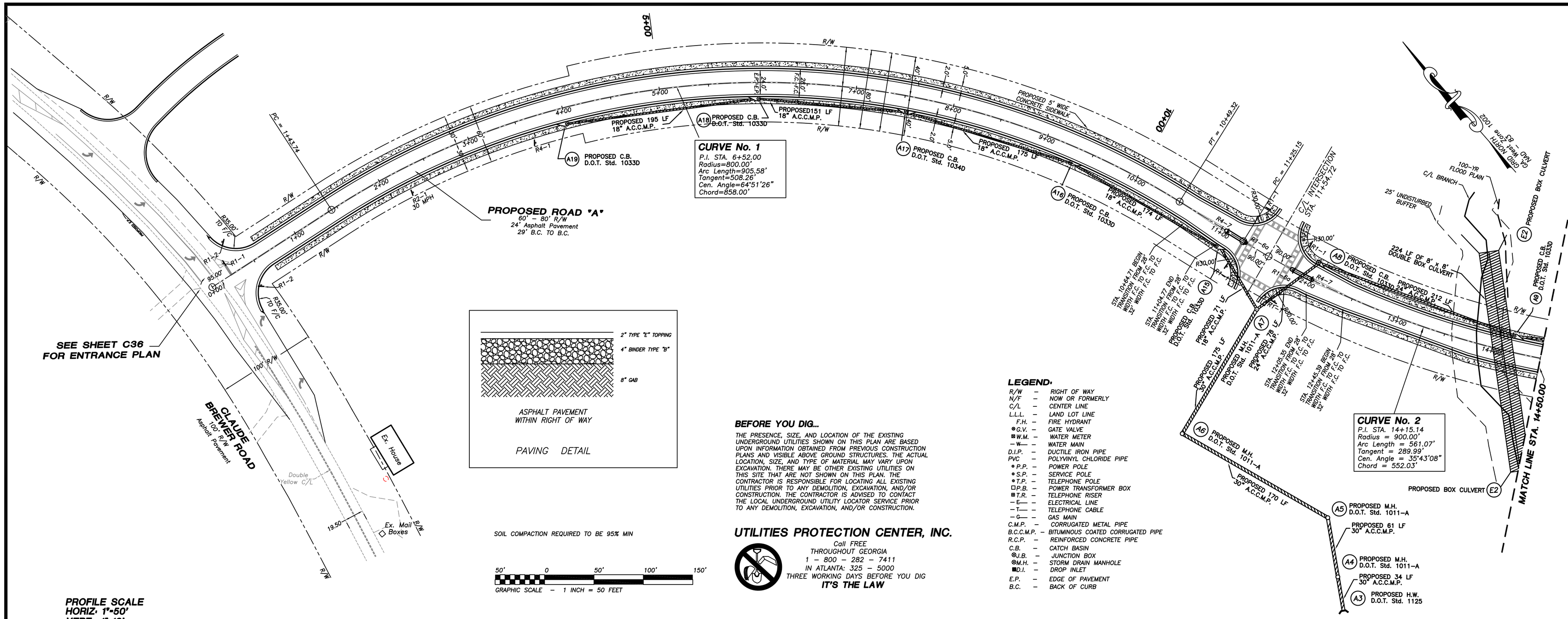
EROSION DETAILS:
FOR
NEW HORIZON PARTNERSHIP, LLC
CITY OF LOGANVILLE
WALTON COUNTY, GEORGIA 4TH DISTRICT
LAND LOTS 156, 157, 183, AND 184 –

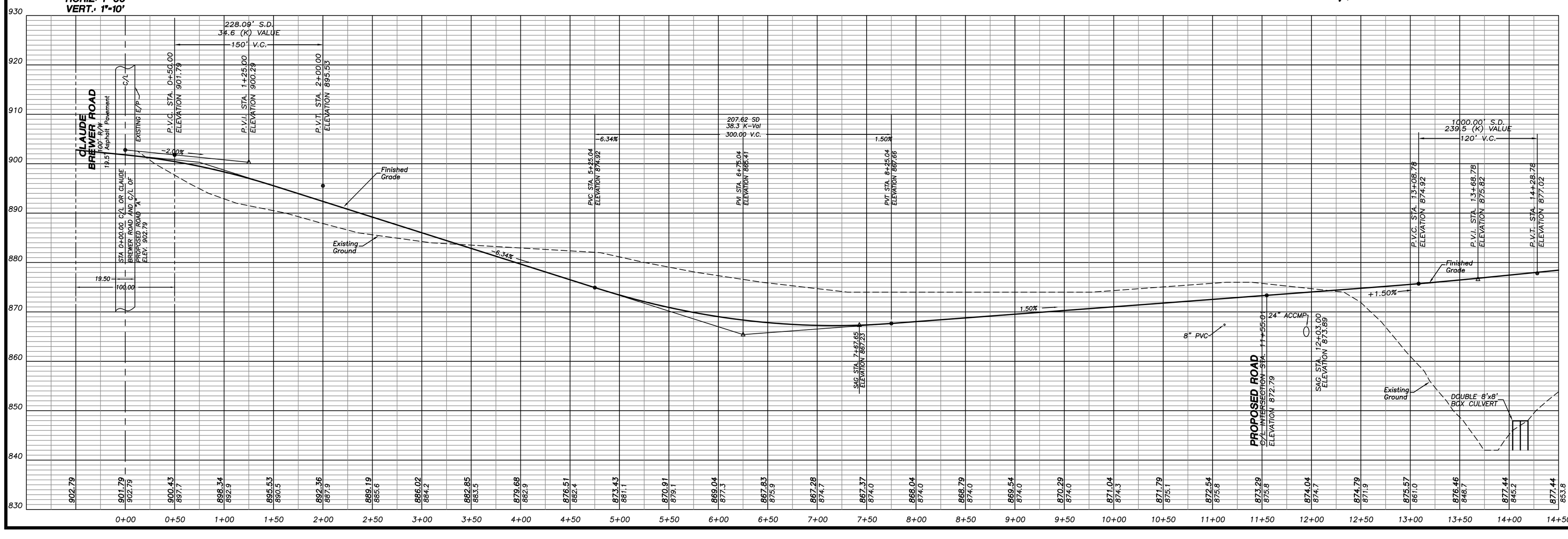
SHEET NUMBER
C15 54
of
03–243.03 COVER

SCALE
N/A

DATE
8/12/05

PROJECT NO.
03–243.03





REVISIONS:

DATE	COMMENTS
12/05	ADDRESS COMMENTS
7/11/06	ADDRESS COMMENTS

SEAL

GEORGIA REGISTERED No. 18702 PROFESSIONAL ENGINEER PAUL S. BOYER

GEORGIA REGISTERED No. 2641 LAND SURVEYOR CHRIS M. PATTON

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Parkton – Boyer, Inc.
LAND DEVELOPMENT CIVIL ENGINEERS
809 ATLANTA HIGHWAY
GAINESVILLE, GEORGIA 30501
PHONE (770) 532 – 1492
FAX (770) 532 – 1932

PROPOSED ROAD PLAN AND PROFILE FOR:
WALTON POND
NEW HORIZON PARTNERSHIP, LLC
LOCATED IN:
CITY OF LOGANVILLE
WALTON COUNTY, GEORGIA

SHEET NUMBER
C16 54
OF
03–243.03 MASTER ROAD

SCALE
1" = 50'

DATE
8/12/05

PROJECT NO.
03–243.03

PROPOSED ROAD PLAN AND PROFILE FOR:

NEW HORIZON PARTNERSHIP, LLC

WALTON POND

LOCATED IN:
CITY OF LOGANVILLE
WALTON COUNTY, GEORGIA

SHEET NUMBER
C17 54
OF
03-243.03 MASTER ROAD

SCALE
1" = 50'

DATE
8/12/05

PROJECT NO.
03-243.03

Pattillo - Bowyer Inc.
LAND SURVEYORS
ENGINEERS
3508 ATLANTA HIGHWAY
GAINESVILLE, GEORGIA 30501
(770) 867-2481 - 6492
PHONE (770) 532 - 6492
FAX (770) 532 - 1995

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SEAL

GEORGIA REGISTERED No. 26641 LAND SURVEYOR CHRIS M. PATTON

GEORGIA REGISTERED No. 18702 PROFESSIONAL ENGINEER PAUL S. BOWYER

REVISIONS:	DATE	COMMENTS
	12/05	ADDRESS COMMENTS
	7/11/06	ADDRESS COMMENTS

LEGEND:

R/W – RIGHT OF WAY
C/L – CENTER LINE
L.L.L. – LAND LOT LINE
F.H. – FIRE HYDRANT
N/F – NOW OR FORMERLY
G.V. – GATE VALVE
W.M. – WATER METER
W – WATER MAIN
D.I.P. – DUCTILE IRON PIPE
PVC – POLYVINYL CHLORIDE PIPE
P.P. – POWER POLE
S.P. – SERVICE POLE
T.P. – TELEPHONE POLE
P.B. – POWER TRANSFORMER BOX
T.R. – TELEPHONE RISER
E – ELECTRICAL LINE
T – TELEPHONE CABLE
G – GAS MAIN
C.M.P. – CORRUGATED METAL PIPE
R.C.P. – REINFORCED CONCRETE PIPE
R.C.A.P. – BITUMINOUS COATED CORRUGATED PIPE
C.B. – CATCH BASIN
D.B. – JUNCTION BOX
D.H. – STORM DRAIN MANHOLE
D.I. – DROP INLET
E.P. – EDGE OF PAVEMENT
B.C. – BACK OF CURB

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GRAPHIC SCALE – 1 INCH = 50 FEET

50' 0 50' 100' 150'

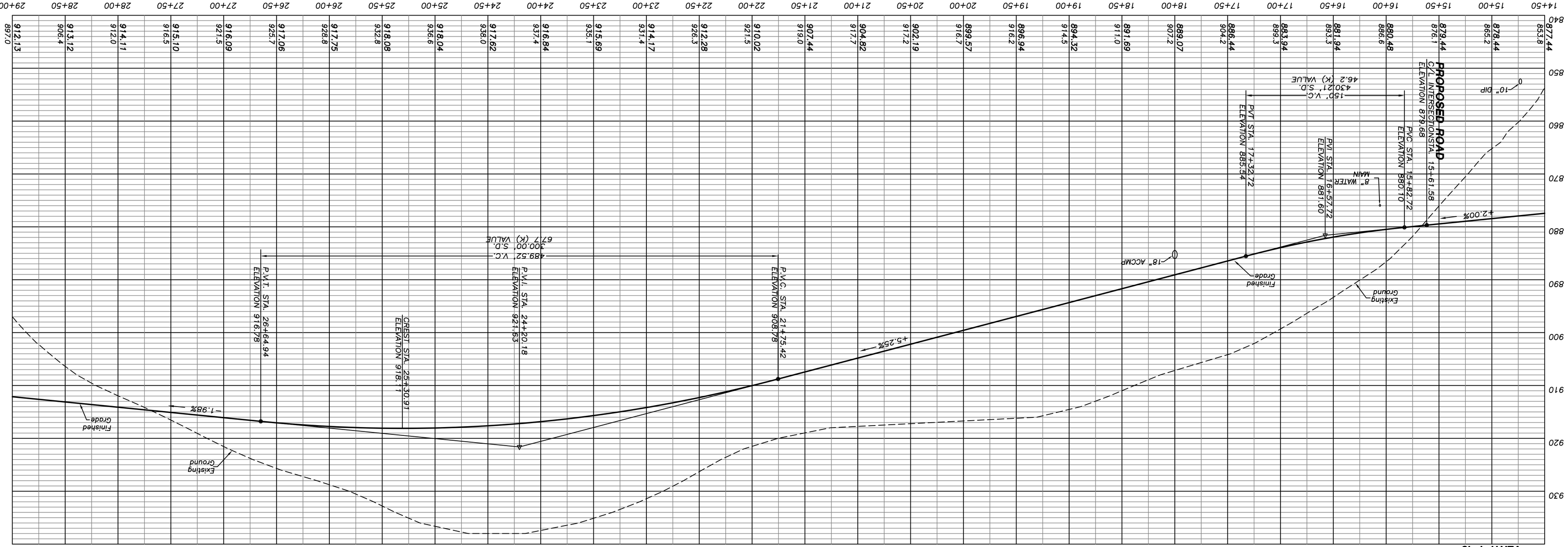
SOIL COMPACTION REQUIRED TO BE 95% MIN

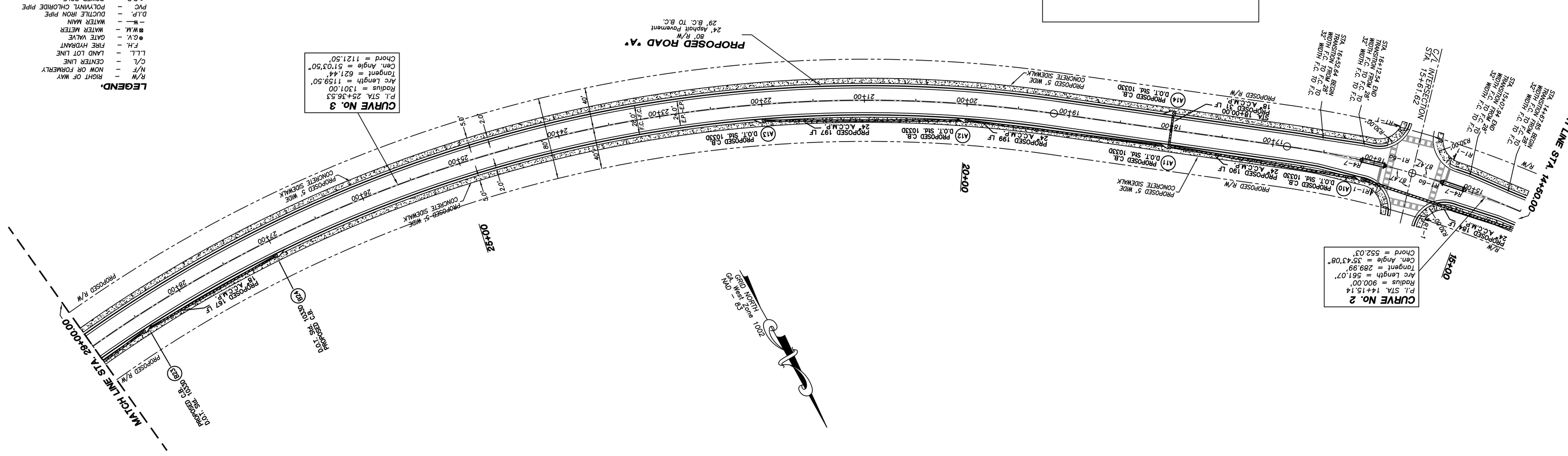
PAVING DETAIL

ASPHALT PAVEMENT WITHIN RIGHT OF WAY

2" TYPE 'E' TOPPING
4" BINDER TYPE 'B'
8" GAB

PROFILE SCALE
HORIZ. 1"=60'
VERT. 1"=10'




PROPOSED ROAD "A"
80' R/W
24' Asphalt Pavement
29' B.C. TO B.C.
CURVE No. 3
P.I. STA. 25+36.53
Radius = 1301.00
Tangent = 621.44
Cen. Angle = 51°03'50"
Chord = 1121.50'
CURVE No. 2
P.I. STA. 14+15.14
Radius = 900.00'
Tangent = 289.99'
Arc Length = 561.07'
Cen. Angle = 35°43'08"
Chord = 552.03'
MATCH LINE STA. 28+00.00
MATCH LINE STA. 14+50.00
20+00
26+00
18+00
PROPOSED R/W
PROPOSED 5' WIDE CONCRETE SIDEWALK
PROPOSED C.B. D.O.T. Std. 1030
A11 A12 A13 A14 A10
PROPOSED 199 LF 24" R.C.C.M.P.
PROPOSED 197 LF 24" R.C.C.M.P.
PROPOSED 190 LF 24" R.C.C.M.P.
PROPOSED 18" R.C.C.M.P. 157 LF
PROPOSED 24" R.C.C.M.P. 55 LF
PROPOSED 18" R.C.C.M.P. 55 LF
PROPOSED 24" R.C.C.M.P. 55

- NOT FOR FINAL RECORDING -

PROPOSED ROAD PLAN AND PROFILE FOR:

WALTON POND
NEW HORIZON PARTNERSHIP, LLC

LOCATED IN:
CITY OF LOGANVILLE
WALTON COUNTY, GEORGIA

SHEET NUMBER
C18 54
OF
03-243.03 MASTER ROAD

SCALE
1" = 50'

DATE
8/12/05

PROJECT NO.
03-243.03

Pattillo - Bower Inc.
LAND SURVEYING ENGINEERS
909 ATLANTA HIGHWAY
POST OFFICE BOX 2481
LOGANVILLE, GEORGIA 30501
PHONE (770) 466-2481 (877) 807 - 6492
FAX (770) 532 - 1995

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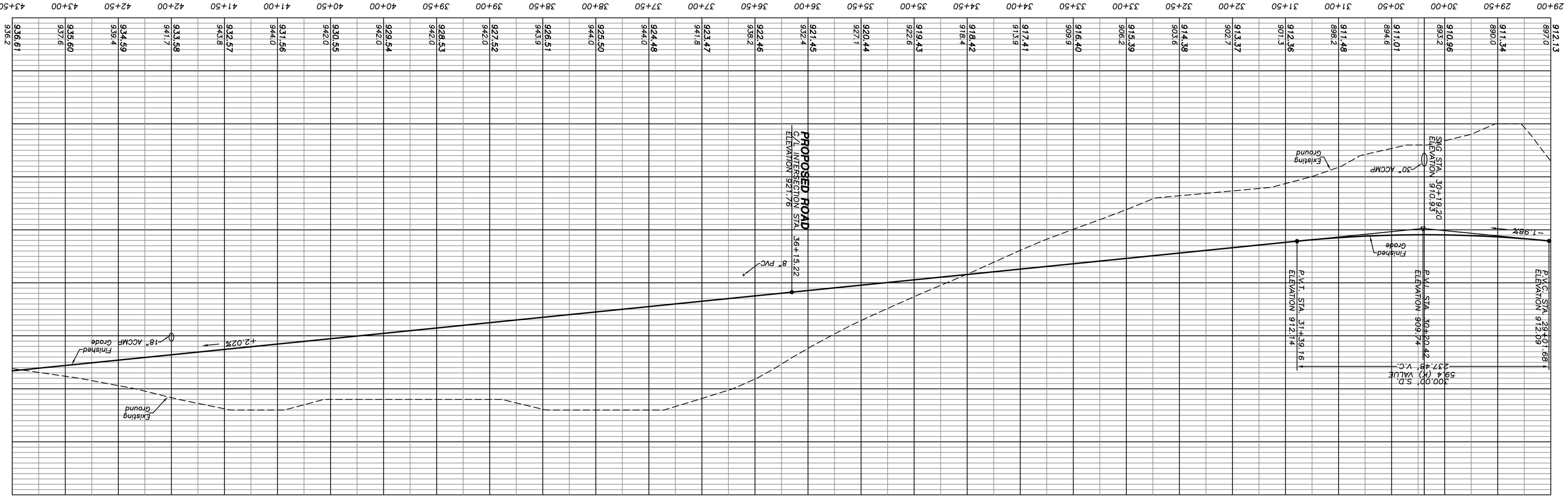
SEAL

GEORGIA REGISTERED No. 28417 LAND SURVEYOR — CHRIS M. PATTON

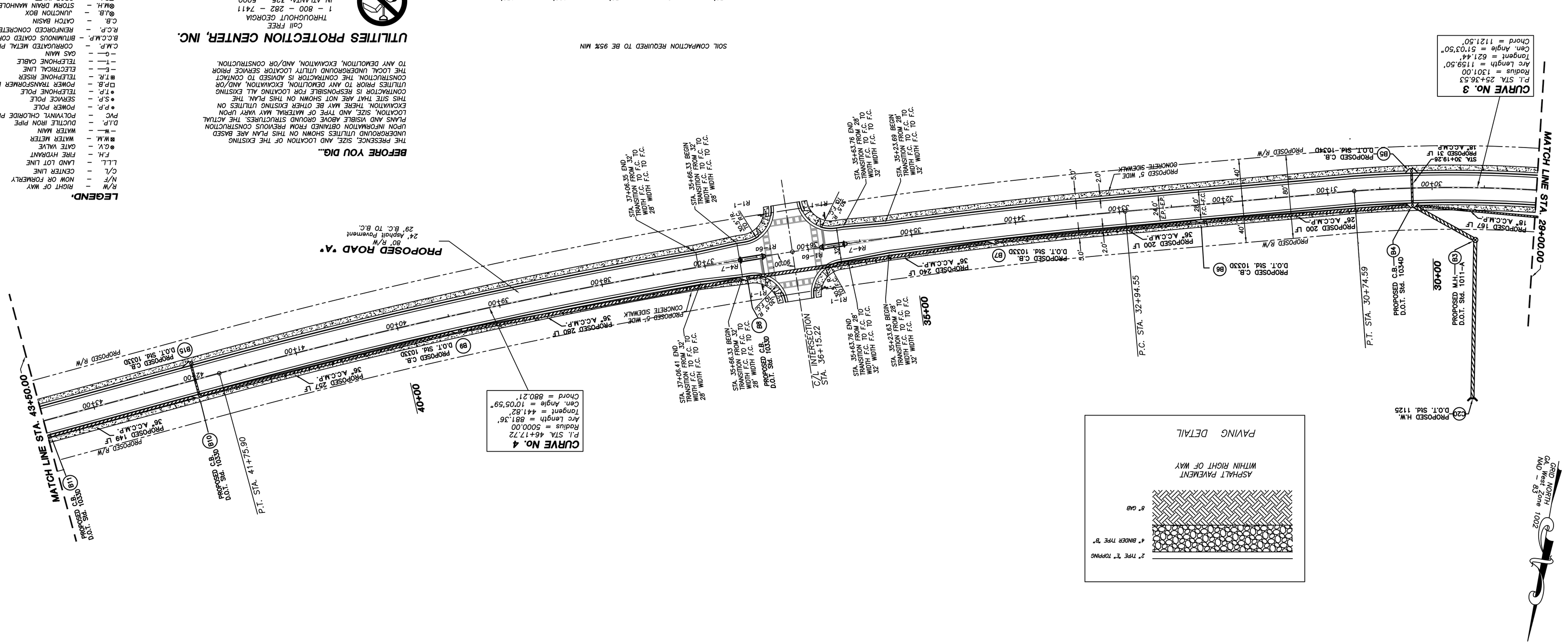
GEORGIA REGISTERED No. 18702 PROFESSIONAL ENGINEER — PAUL S. BOWER

REVISIONS:	COMMENTS	DATE
	ADDRESS COMMENTS	12/05
	ADDRESS COMMENTS	7/11/06
	ADDRESS COMMENTS	

PROFILE SCALE
HORIZ. 1"=50'
VERT. 1"=10'



PROPOSED ROAD "A"



PAVING DETAIL

SOIL COMPACTION REQUIRED TO BE 95% MIN

GRAPHIC SCALE - 1 INCH = 50 FEET

50' 0 50' 100' 150'

NORTH
GRID
NAD 83 - 1002

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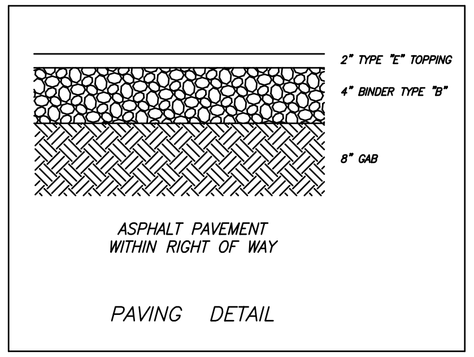
LEGEND:

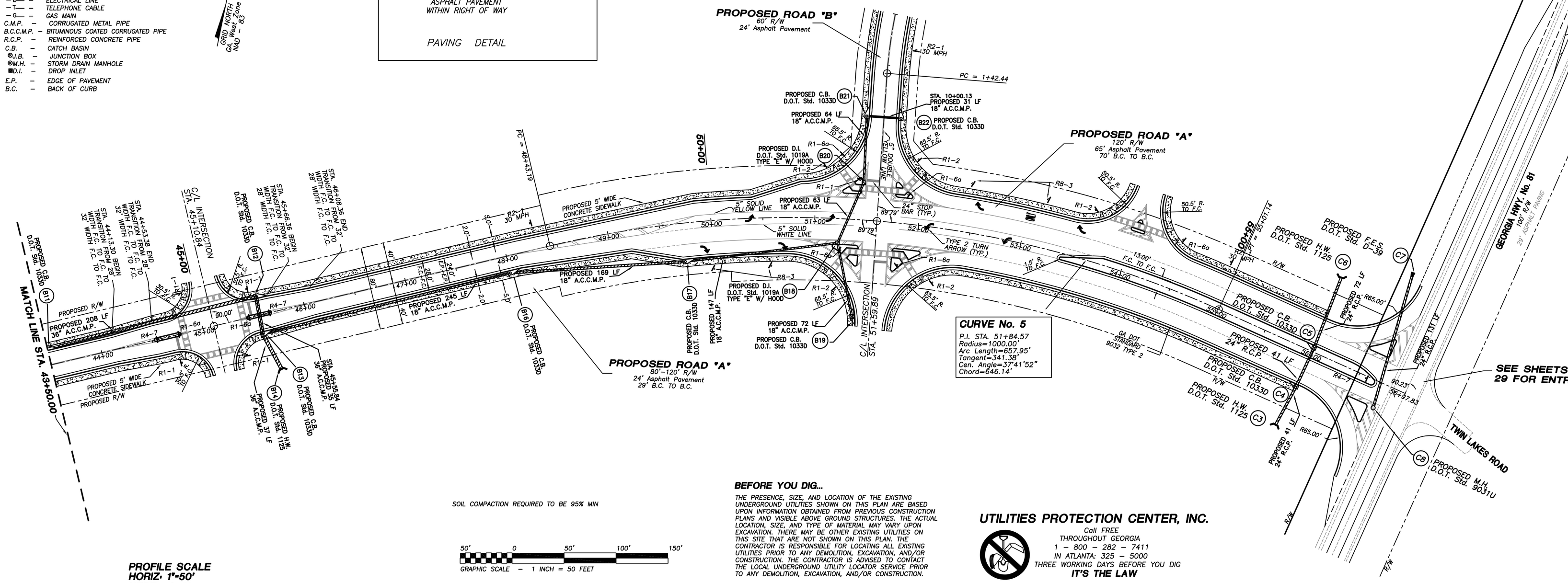
R/W	–	RIGHT OF WAY
N/F	–	NOW OR FORMERLY
C/L	–	CENTER LINE
L.L.	–	LAND LOT LINE
⊗ G.V.	–	GATE VALVE
F.H.	–	FIRE HYDRANT
⊠ W.M.	–	WATER METER
—W—	–	WATER MAIN
D.I.P.	–	DUCTILE IRON PIPE
PVC	–	POLYVINYL CHLORIDE PIPE
● P.P.	–	POWER POLE
● S.P.	–	SERVICE POLE
● T.P.	–	TELEPHONE POLE
□ P.B.	–	POWER TRANSFORMER BOX
⊞ T.R.	–	TELEPHONE RISER
—E—	–	ELECTRICAL LINE
—T—	–	TELEPHONE CABLE
—G—	–	GAS MAIN
C.M.P.	–	CORRUGATED METAL PIPE
R.C.P.	–	REINFORCED CONCRETE PIPE
B.C.M.P.	–	BITUMINOUS COATED CORRUGATED PIPE
C.B.	–	CATCH BASIN
⊗ J.B.	–	JUNCTION BOX
⊗ M.H.	–	STORM DRAIN MANHOLE
■ D.I.	–	DROP INLET
E.P.	–	EDGE OF PAVEMENT
B.C.	–	BACK OF CURB

LEGEND

R/W	–	RIGHT OF WAY
N/F	–	NOW OR FORMERLY
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M.H.	–	STORM DRAIN MANHOLE
D.I.	–	DROP INLET
E.P.	–	EDGE OF PAVEMENT
B.C.	–	BACK OF CURB

GRID NORTH
GA West Zone 1002
NAD 83





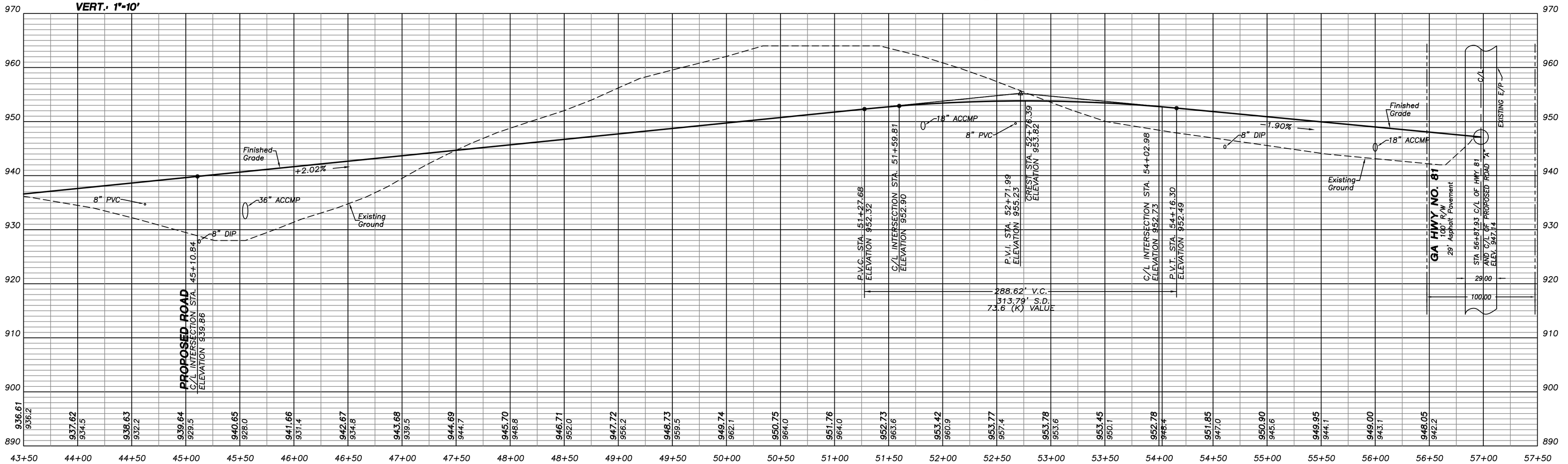
BEFORE YOU DIG...

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PROFILE SCALE
HORIZ: 1"=50'
VERT.: 1"=10'



REVISIONS:		
DATE	COMMENTS	
12/05	ADDRESS COMMENTS	
7/11/06	ADDRESS COMMENTS	

SEAL

GEORGIA REGISTERED No. 18702 PROFESSIONAL ENGINEER PAUL S. BOYER

GEORGIA REGISTERED No. 2641 LAND SURVEYOR CHRIS W. PATTON

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GAINESVILLE, GEORGIA 30501
(678) 207 – 2481
PHONE (770) 532 – 6492
FAX (770) 532 – 1995

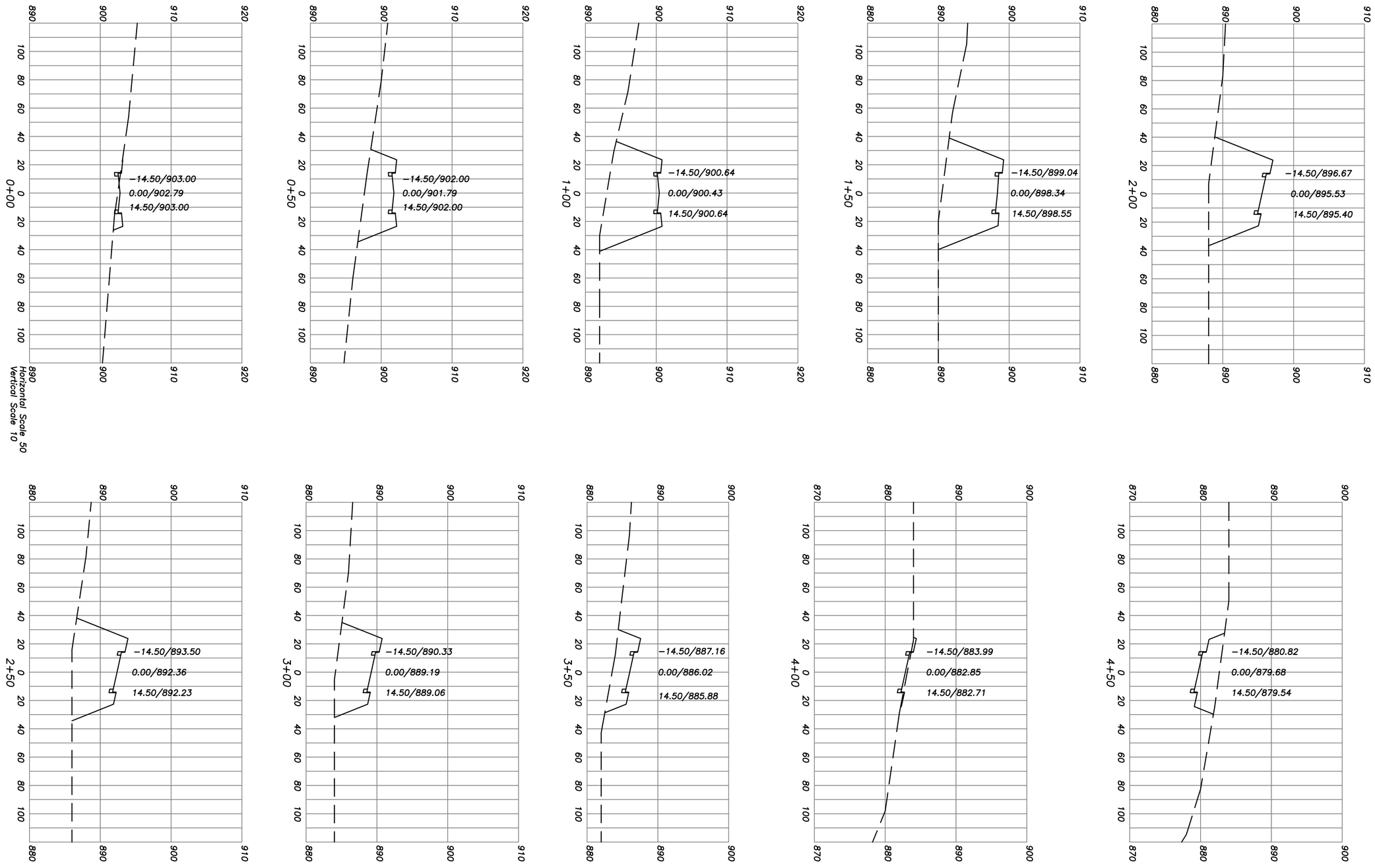
PROPOSED ROAD PLAN AND PROFILE FOR:
WALTON POND
NEW HORIZON PARTNERSHIP, LLC
LOCATED IN:
CITY OF LOGANVILLE
WALTON COUNTY, GEORGIA

SHEET NUMBER
C19 54
OF
03–243.03 MASTER ROAD

SCALE
1" = 50'

DATE
8/12/05

PROJECT NO.
03–243.03



GRAPHIC SCALE

1 inch = 50 ft.

PROPOSED ROAD "A" SECTION PROFILES:

FOR

NEW HORIZON PARTNERSHIP, LLC

CITY OF LOGANVILLE
WALTON COUNTY, GEORGIA

SHEET NUMBER C20 54 of

SCALE 1" = 50'

DATE 8/12/05

PROJECT NO. 03-243.03

Patton - Boyer, Inc.
LAND SURVEYORS & CIVIL ENGINEERS
909 ATLANTA HWY
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PHONE (770) 532 - 6492
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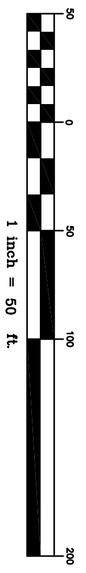
SEAL

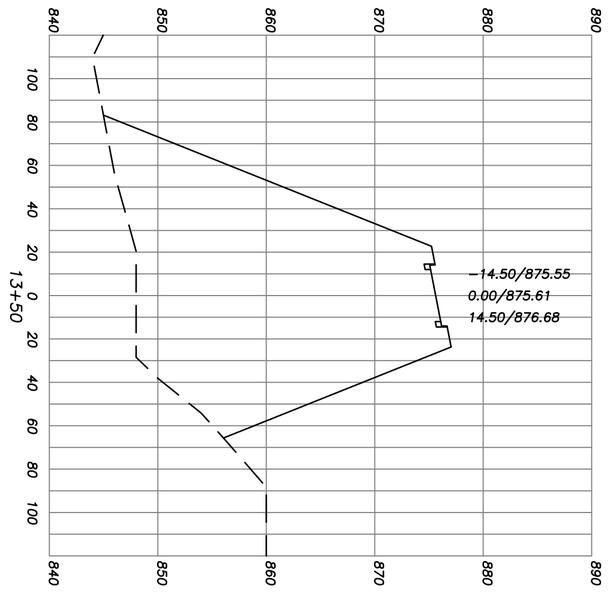
GEORGIA REGISTERED No. 19702 PROFESSIONAL ENGINEER PAUL S. BOYER

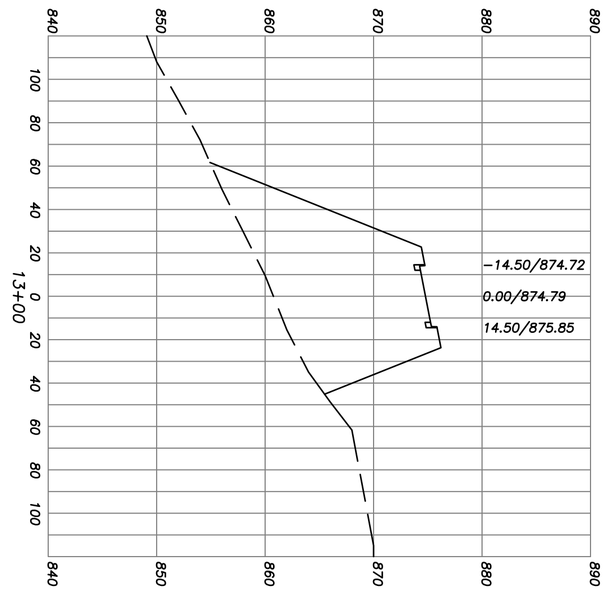
REVISIONS

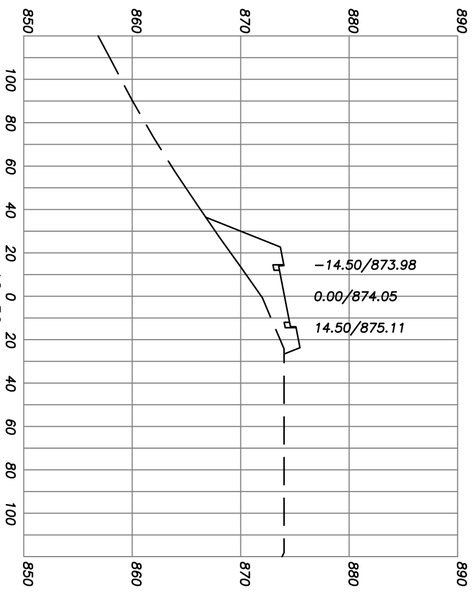
NO.	DATE	REMARKS
1.	12-05	ADDRESS COMMENTS
2.	7/11	ADDRESS COMMENTS

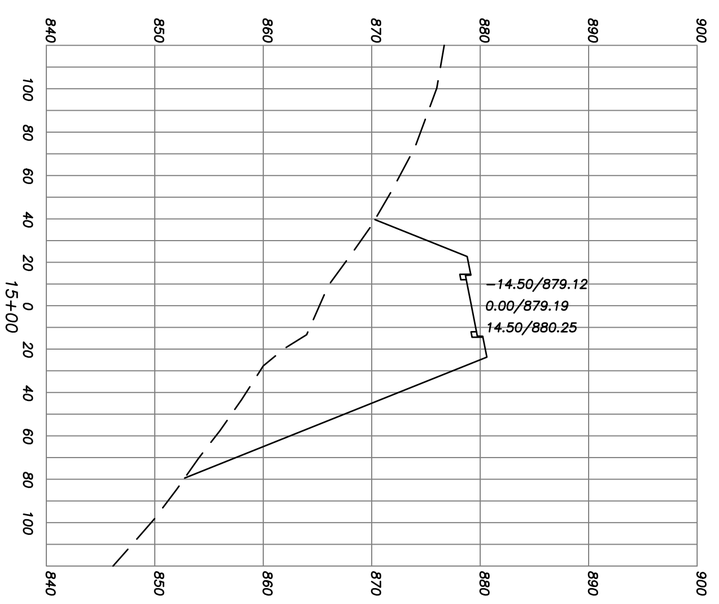
GRAPHIC SCALE

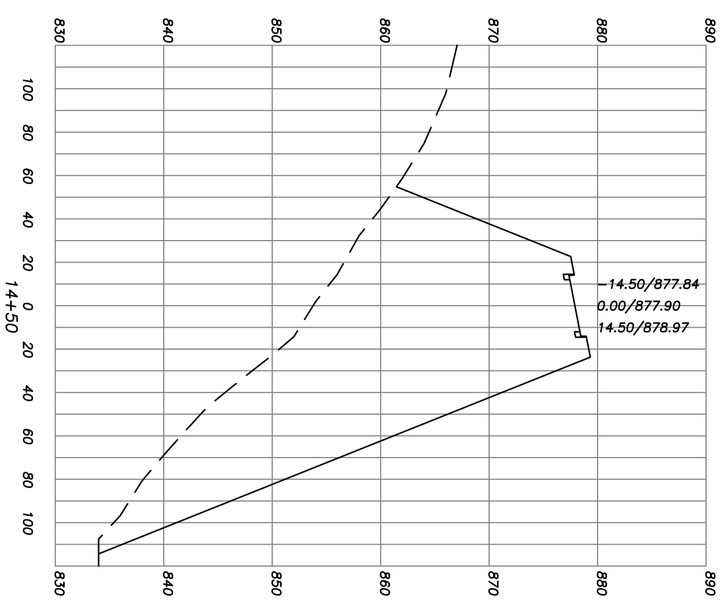


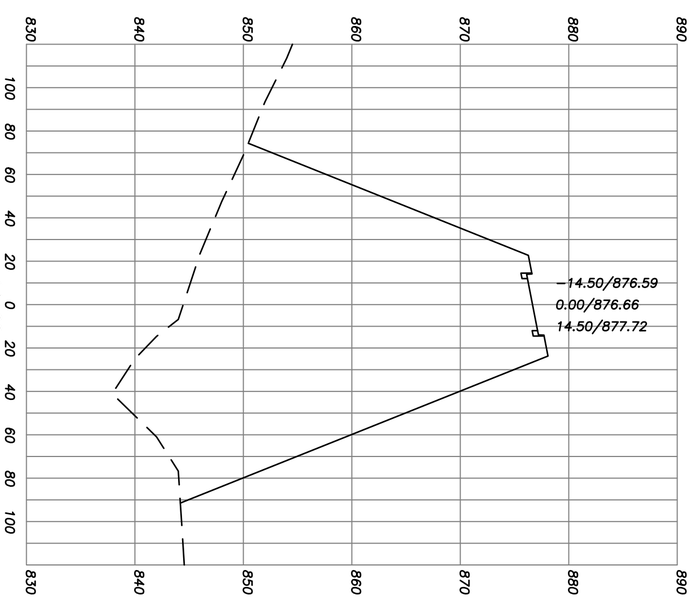


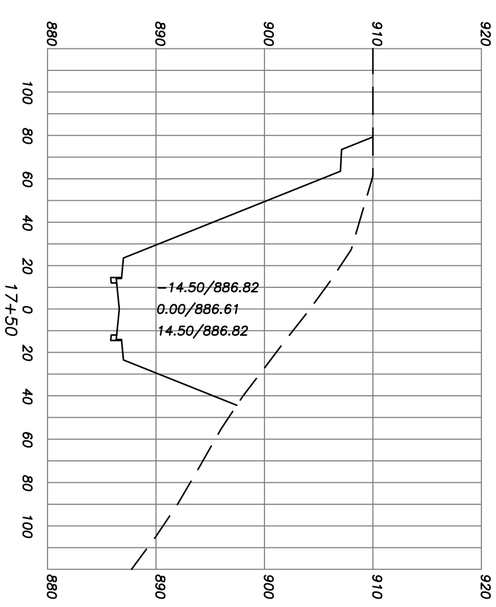


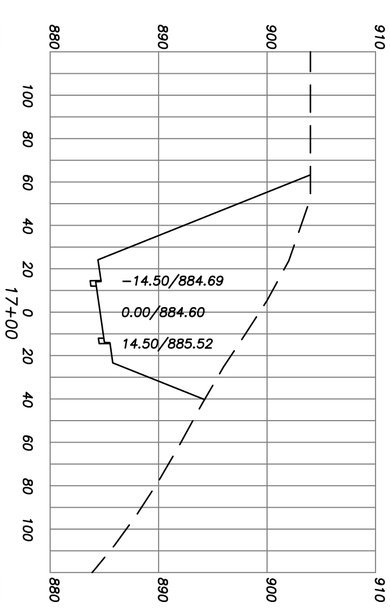


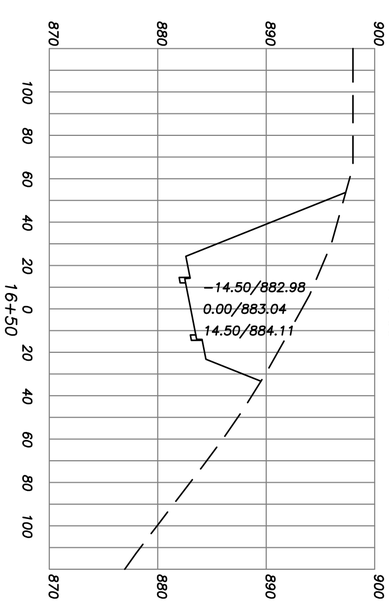


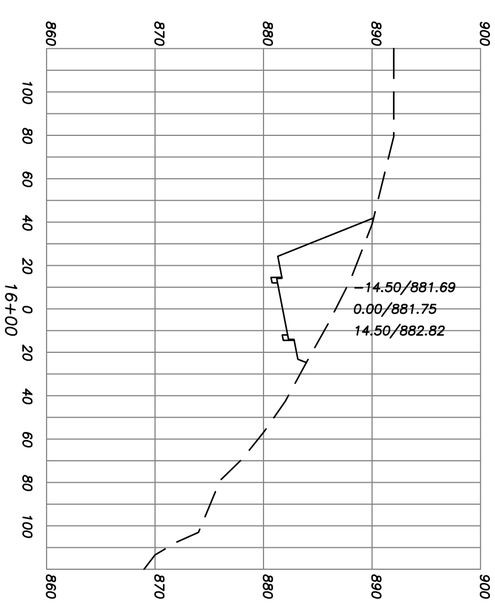


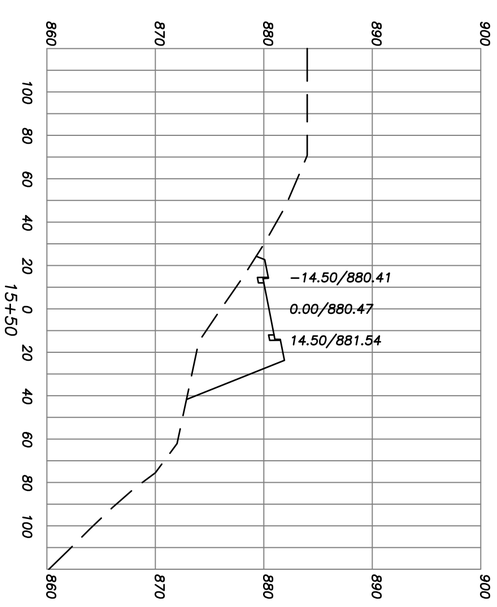


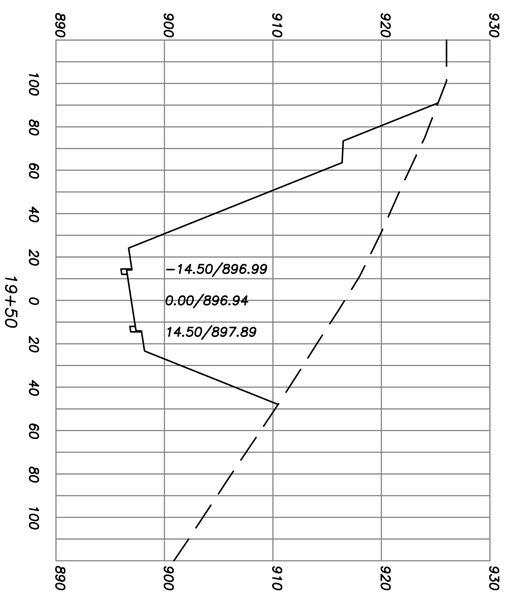


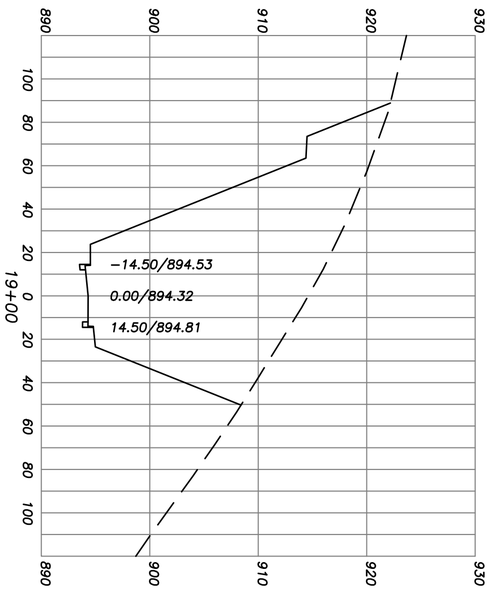


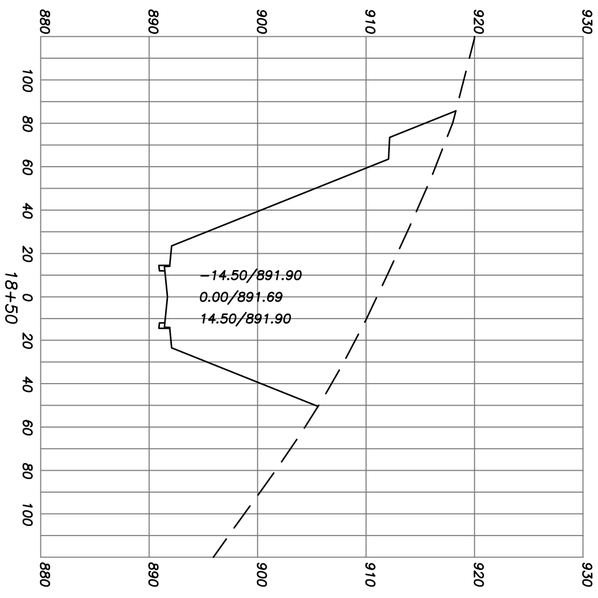


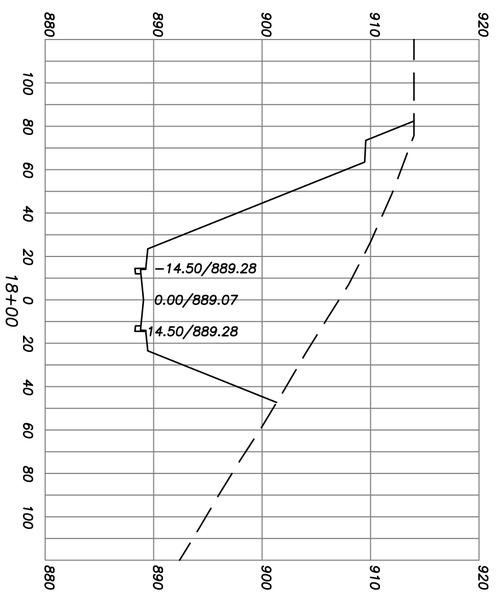


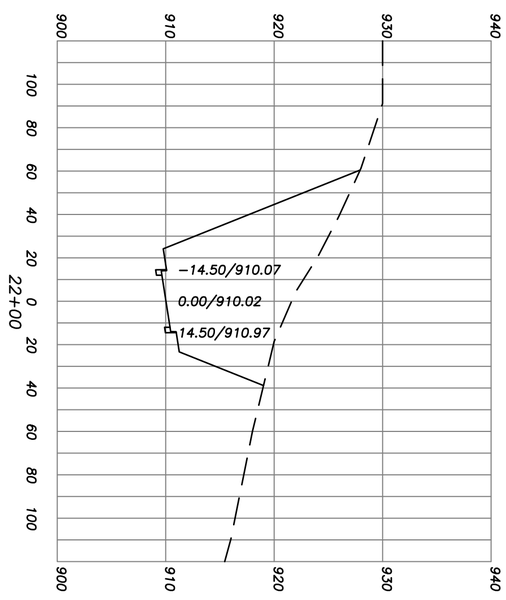


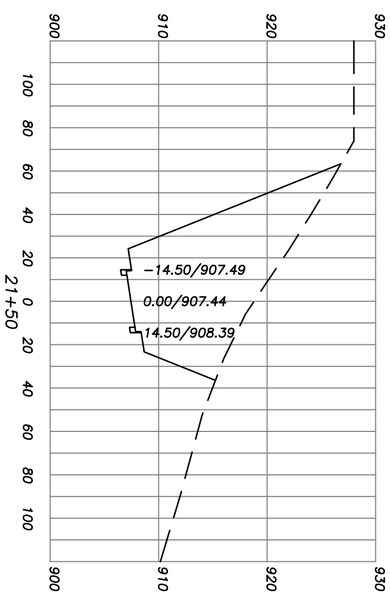


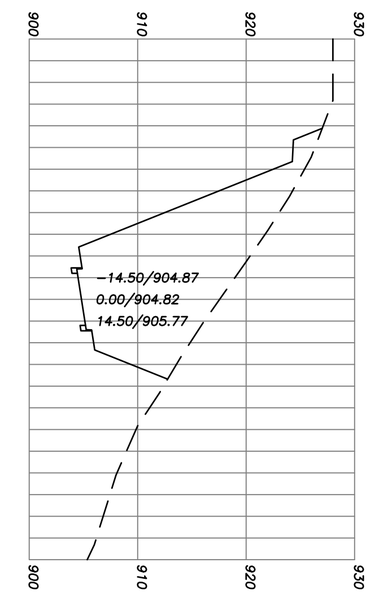


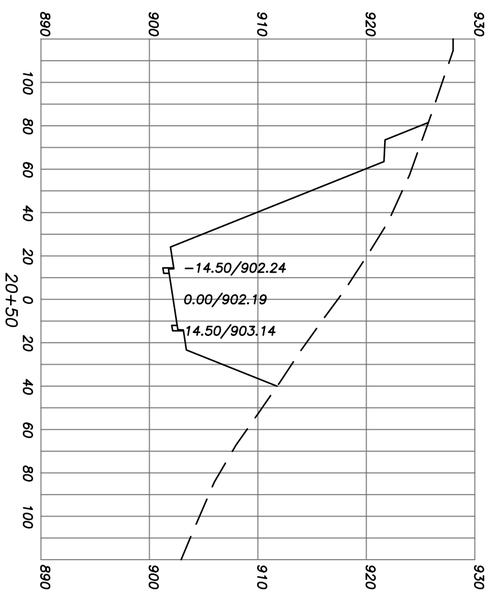


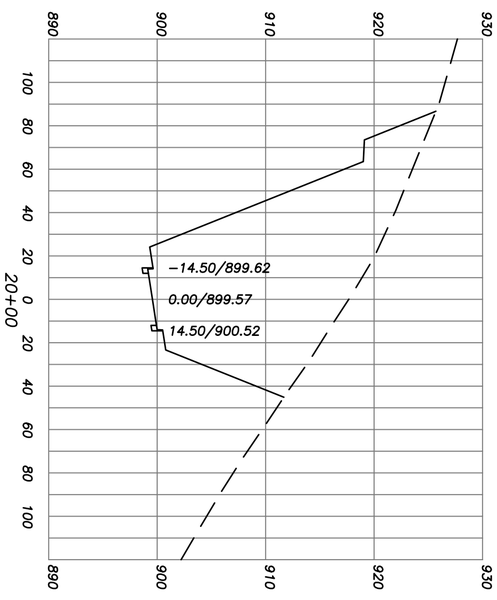












REVISIONS		
NO.	DATE	REMARKS
1.	12-05	ADDRESS COMMENTS
2.	7/11	ADDRESS COMMENTS

SEAL

GEORGIA REGISTERED No. 18702 PROFESSIONAL ENGINEER PAUL S. BOYER

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Patton – Boyer, Inc.
LAND SURVEYORS & CIVIL ENGINEERS
909 ATLANTA HWY
GAINESVILLE, GEORGIA 30501
PHONE (770) 532 – 6492
FAX (770) 532 – 1995

PROPOSED ROAD "A" SECTION PROFILES:

FOR

NEW HORIZON PARTNERSHIP, LLC

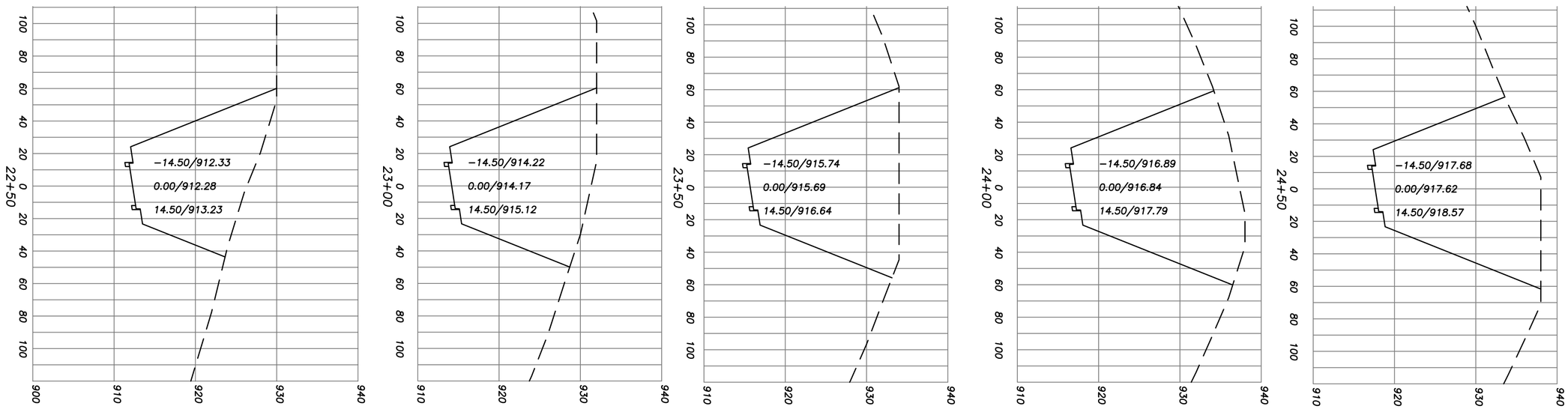
CITY OF LOGANVILLE
WALTON COUNTY, GEORGIA

SHEET NUMBER C21 54 of

SCALE 1' = 50'

DATE 8/12/05

PROJECT NO. 03-243.03



PROPOSED ROAD "A" SECTION PROFILES:
FOR
NEW HORIZON PARTNERSHIP, LLC
CITY OF LOGANVILLE
WALTON COUNTY, GEORGIA

SHEET NUMBER C22 54 of

SCALE 1' = 50'

DATE 8/12/05

PROJECT NO. 03-243.03

Patton-Boyer, Inc.
LAND SURVEYORS & CIVIL ENGINEERS
909 ATLANTA HWY
GAINESVILLE, GEORGIA 30501
PHONE (770) 532 - 6492
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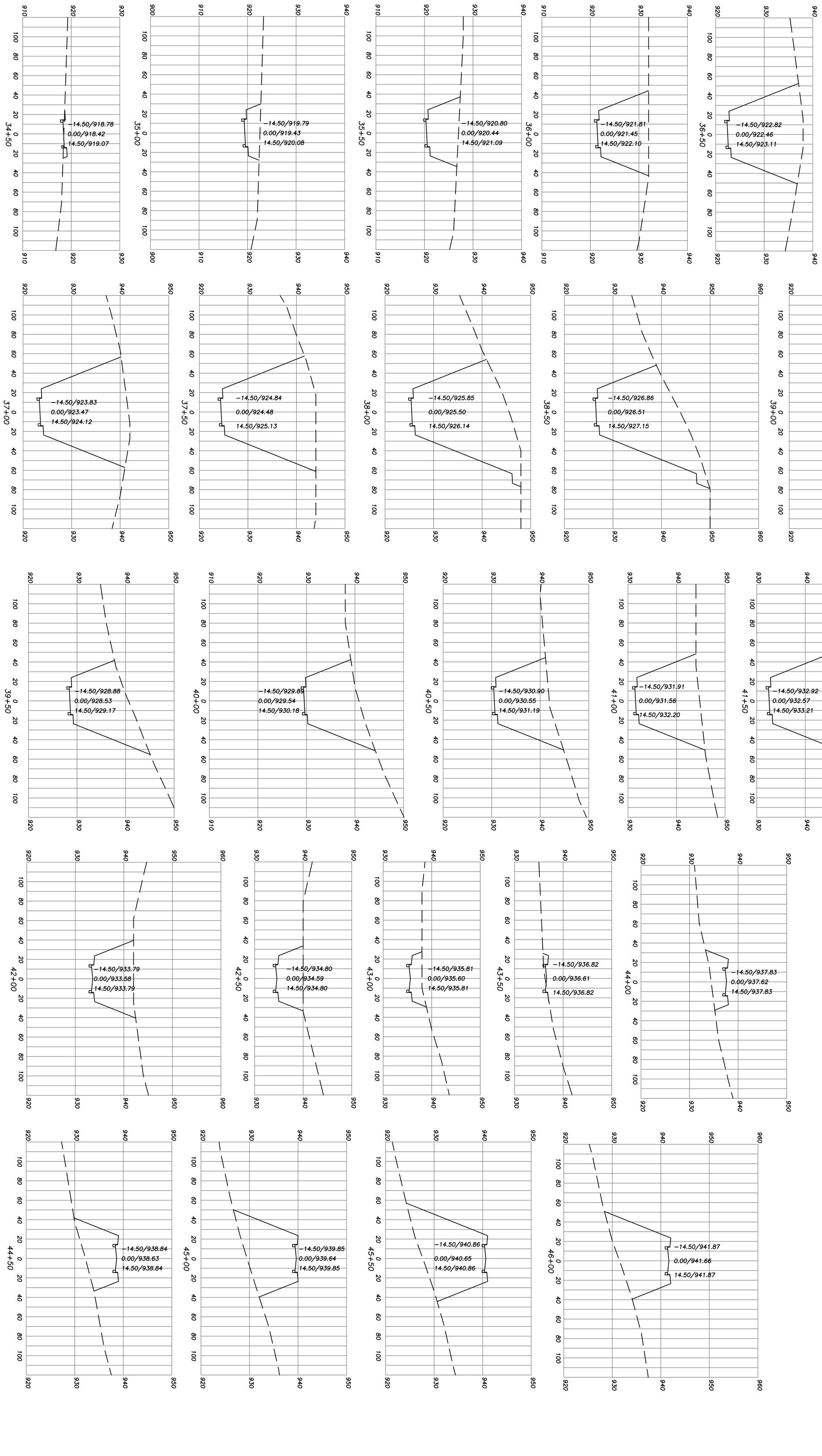
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SEAL

GEORGIA REGISTERED No. 18702 PROFESSIONAL ENGINEER PAUL S. BOYER

REVISIONS

NO.	DATE	REMARKS
1.	12-05	ADDRESS COMMENTS
2.	7/11	ADDRESS COMMENTS



GRAPHIC SCALE

1 inch = 50 ft.

PROPOSED ROAD "A" SECTION PROFILES:

FOR

NEW HORIZON PARTNERSHIP, LLC

CITY OF LOGANVILLE
WALTON COUNTY, GEORGIA

Patton – Boyer, Inc.
LAND SURVEYORS & CIVIL ENGINEERS
909 ATLANTA HWY
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SEAL

GEORGIA REGISTERED No. 18702 PROFESSIONAL ENGINEER JULIUS S. BOYER

REVISIONS

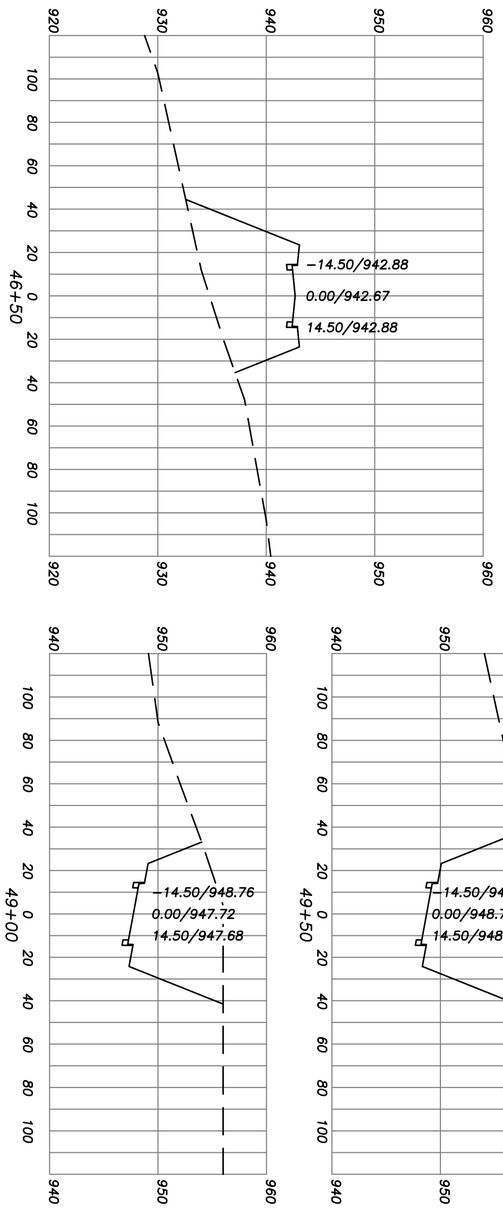
NO.	DATE	REMARKS
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2.	7/11	ADDRESS COMMENTS

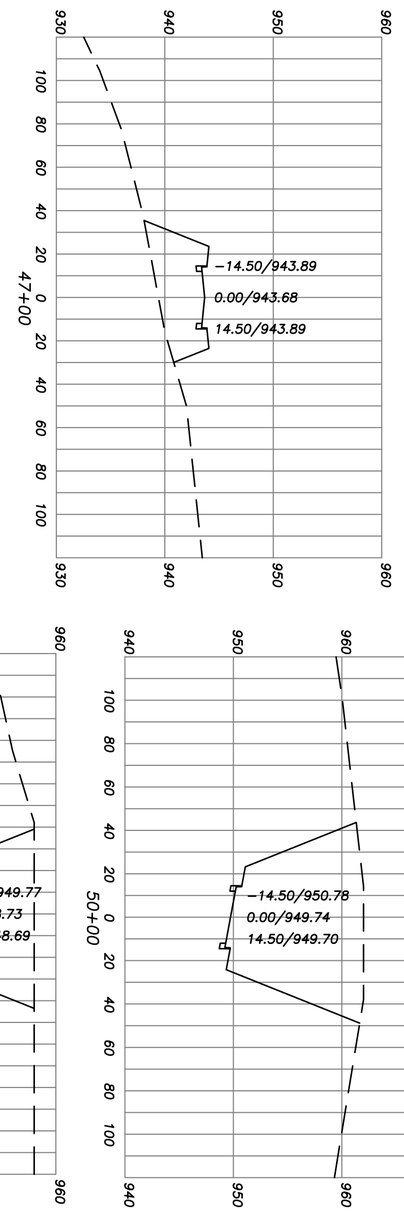
SHEET NUMBER C23 54 of

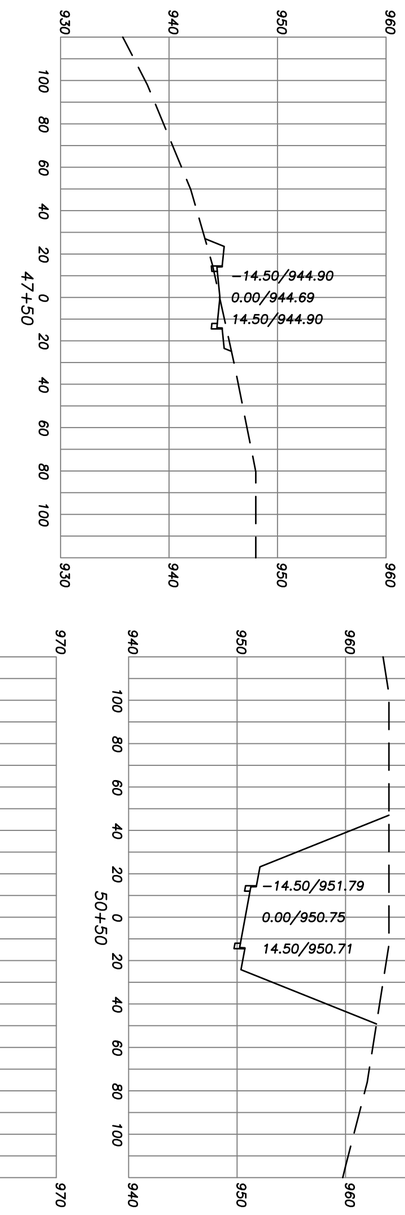
SCALE 1' = 50'

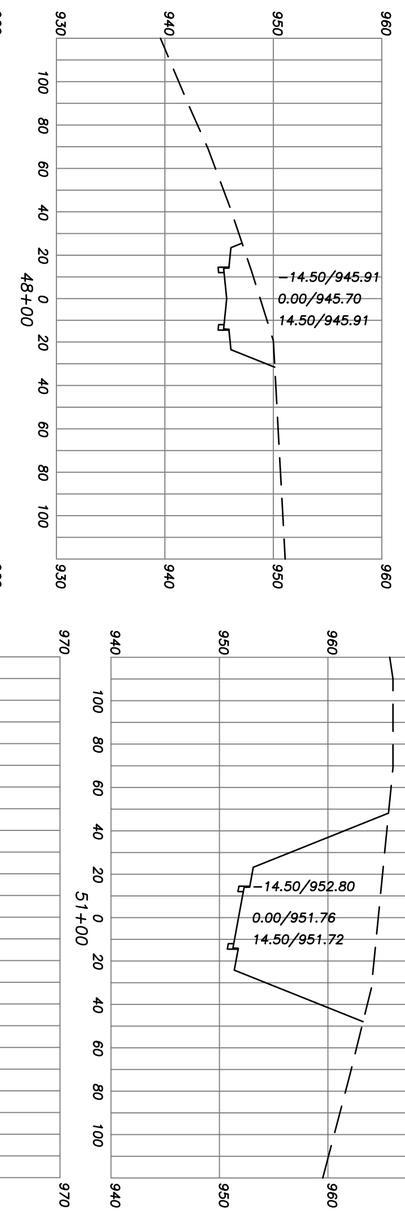
DATE 8/12/05

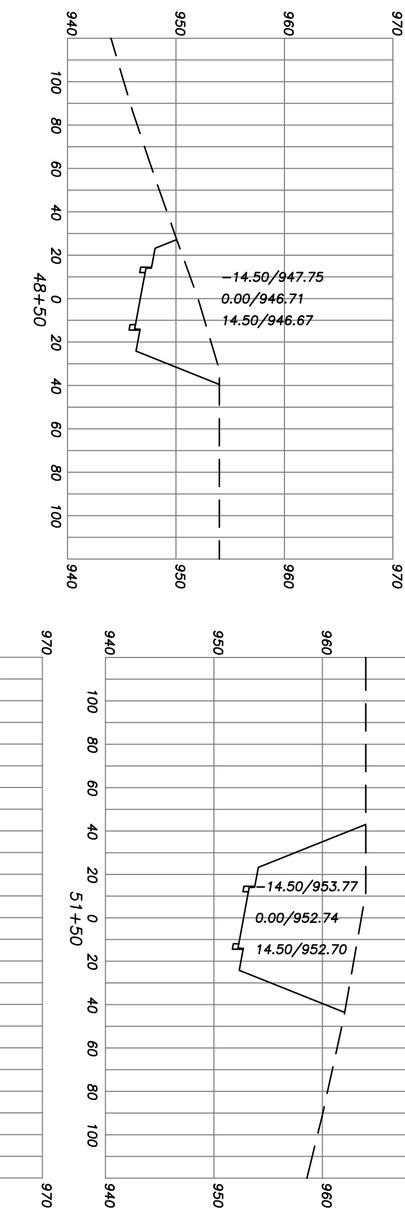
PROJECT NO. 03-243.03

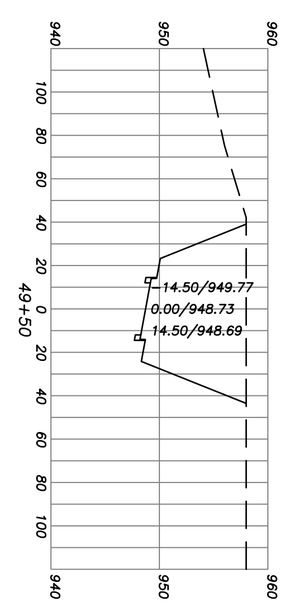


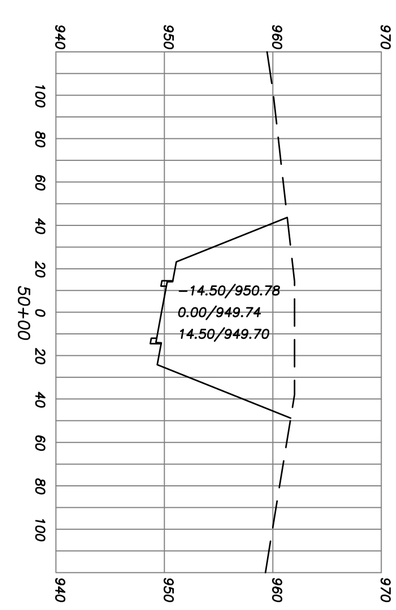


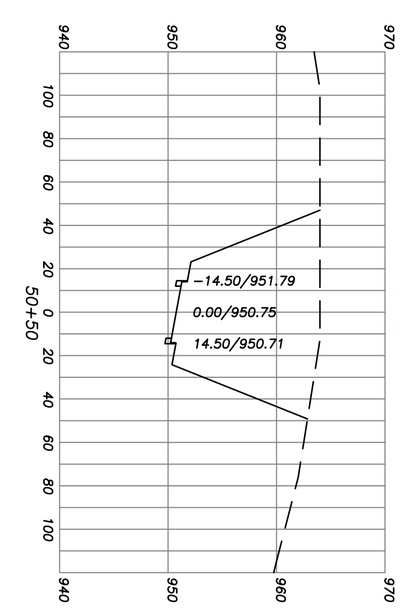


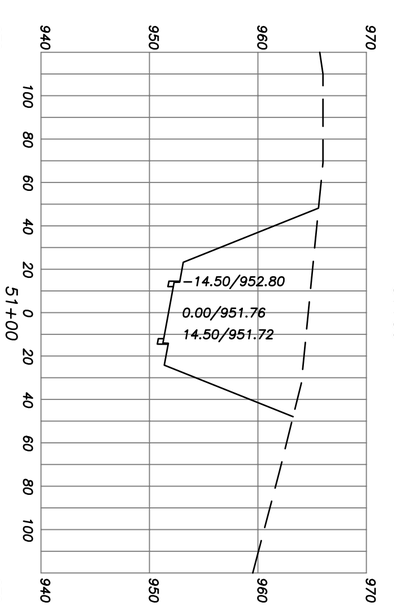


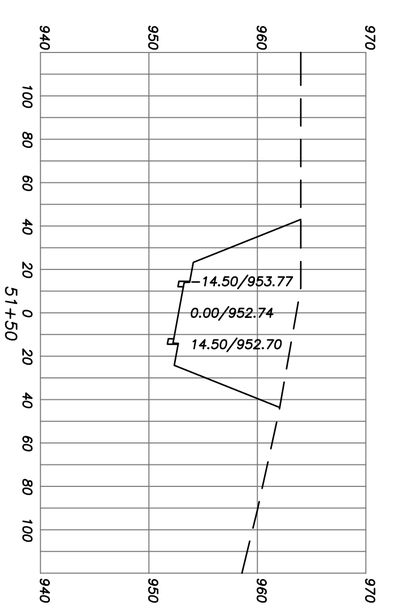


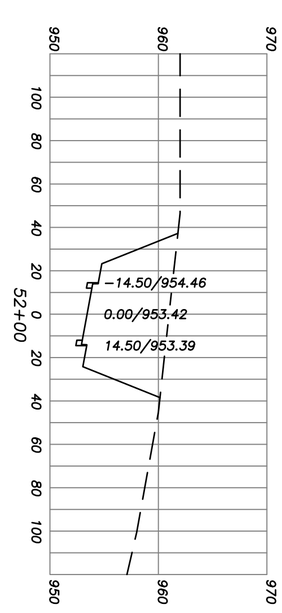


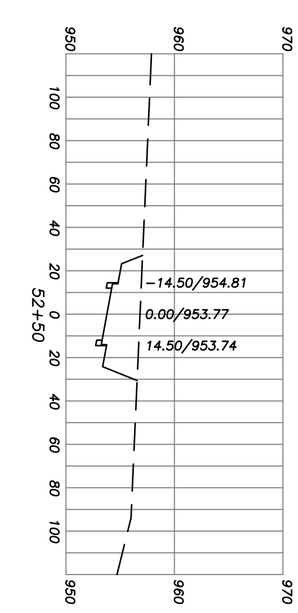


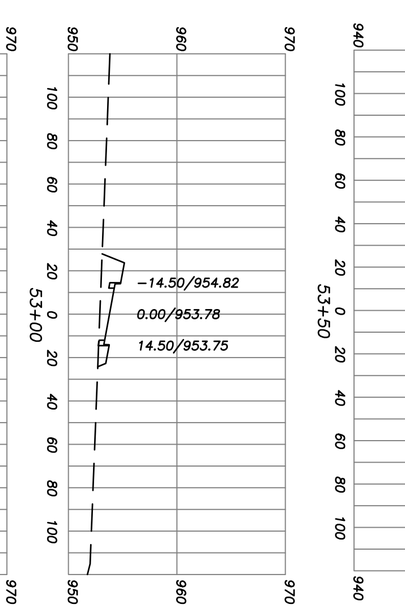


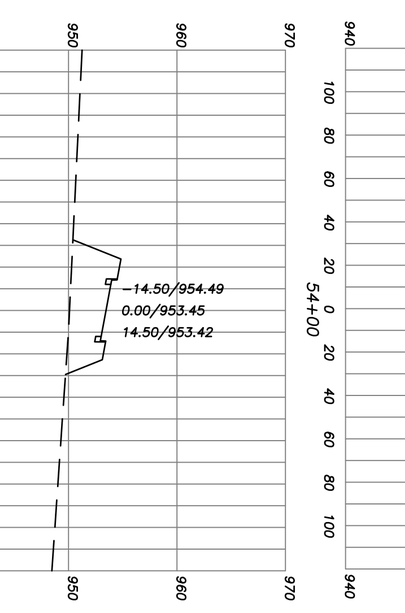


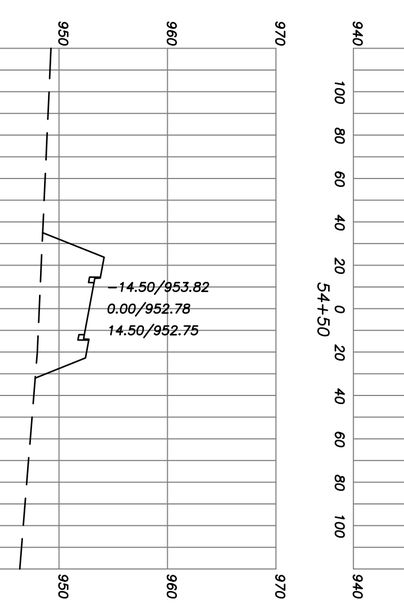


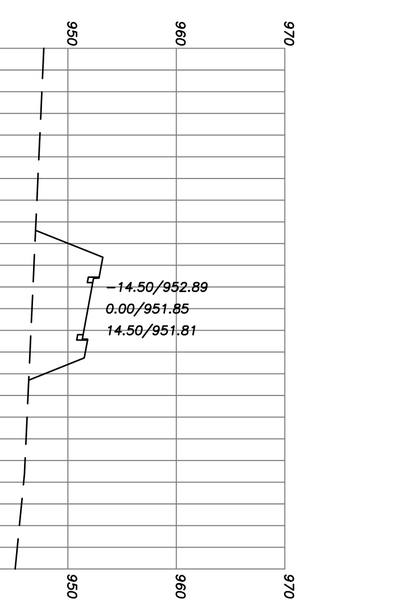


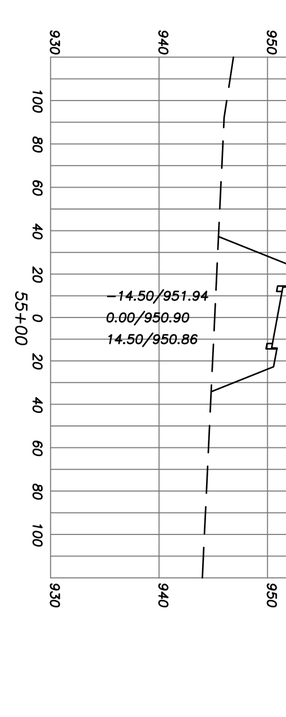


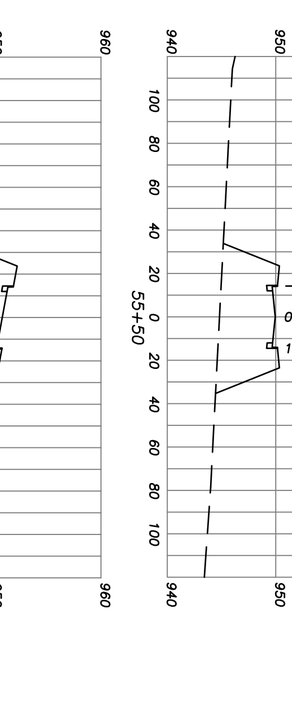


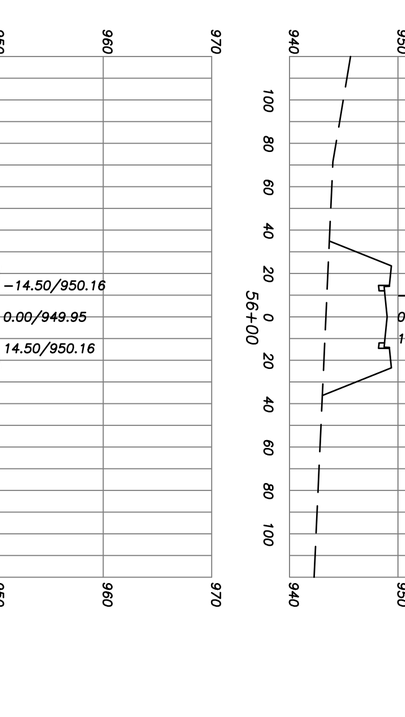


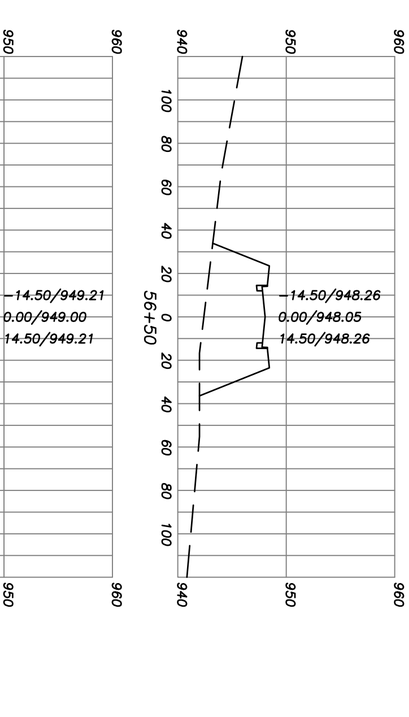


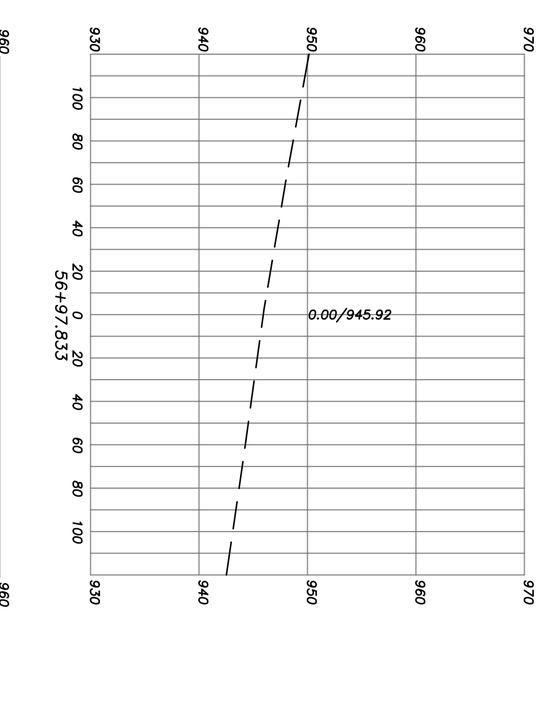












GRAPHIC SCALE

1 inch = 50 ft.

50 0 50 100 200

SHEET NUMBER C24 54 of

PROPOSED ROAD "A" SECTION PROFILES:
FOR
NEW HORIZON PARTNERSHIP, LLC
CITY OF LOGANVILLE
WALTON COUNTY, GEORGIA

SCALE 1' = 50'

DATE 8/12/05

PROJECT NO. 03-243.03

Patton - Boyer, Inc.
LAND SURVEYORS & CIVIL ENGINEERS
909 ATLANTA HWY
GAINESVILLE, GEORGIA 30501
PHONE (770) 532 - 6492
FAX (770) 532 - 1995

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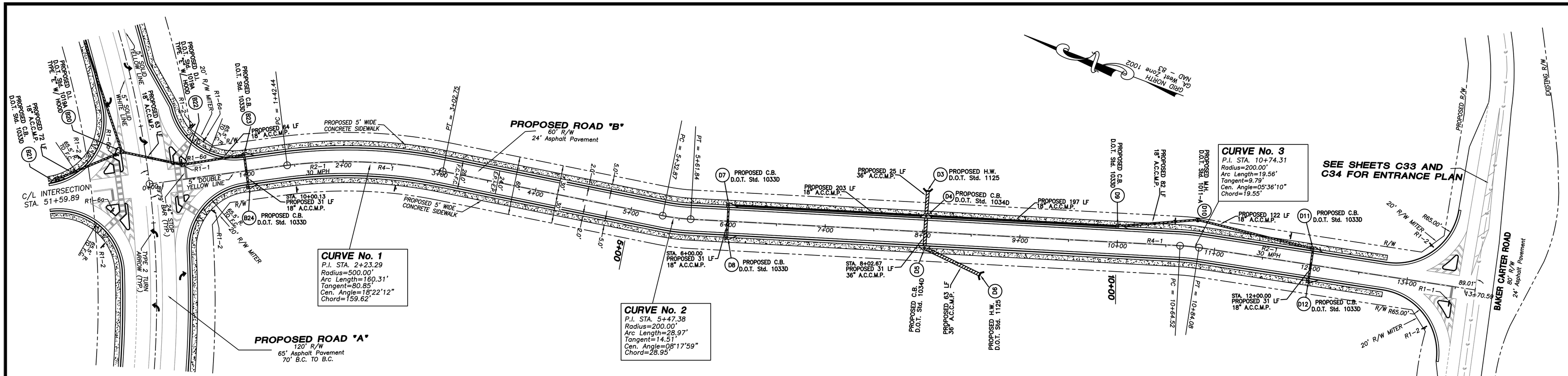
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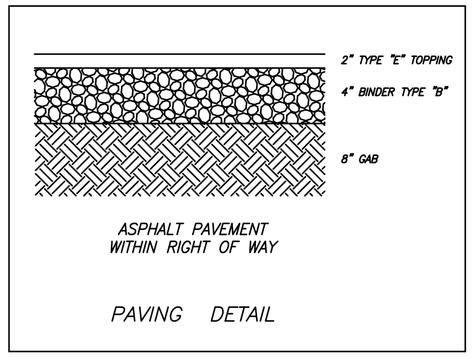
SEAL

GEORGIA REGISTERED No. 18702 PROFESSIONAL ENGINEER PAUL S. BOYER

REVISIONS

NO.	DATE	REMARKS
1.	12-05	ADDRESS COMMENTS
2.	7/11	ADDRESS COMMENTS





SOIL COMPACTION REQUIRED TO BE 95% MIN

50' 0 50' 100' 150'
GRAPHIC SCALE – 1 INCH = 50 FEET

BEFORE YOU DIG...

THE PRESENCE, SIZE, AND LOCATION OF THE EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED UPON INFORMATION OBTAINED FROM PREVIOUS CONSTRUCTION PLANS AND VISIBLE ABOVE GROUND STRUCTURES. THE ACTUAL LOCATION, SIZE, AND TYPE OF MATERIAL MAY VARY UPON EXCAVATION. THERE MAY BE OTHER EXISTING UTILITIES ON THIS SITE THAT ARE NOT SHOWN ON THIS PLAN. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES PRIOR TO ANY DEMOLITION, EXCAVATION, AND/OR CONSTRUCTION. THE CONTRACTOR IS ADVISED TO CONTACT THE LOCAL UNDERGROUND UTILITY LOCATOR SERVICE PRIOR TO ANY DEMOLITION, EXCAVATION, AND/OR CONSTRUCTION.

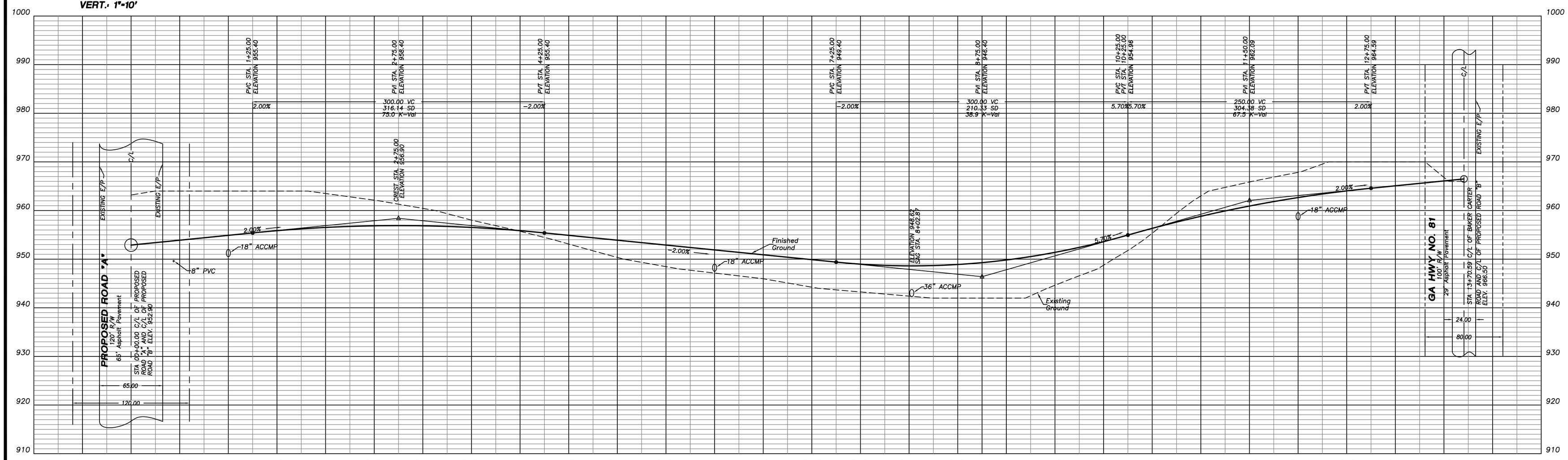
UTILITIES PROTECTION CENTER, INC.

Call FREE
THROUGHOUT GEORGIA
1 – 800 – 282 – 7411
IN ATLANTA: 325 – 5000
THREE WORKING DAYS BEFORE YOU DIG
IT'S THE LAW

LEGEND:

R/W	–	RIGHT OF WAY
N/F	–	NOW OR FORMERLY
C/L	–	CENTER LINE
L.L.L.	–	LAND LOT LINE
F.H.	–	FIRE HYDRANT
G.V.	–	GATE VALVE
W.M.	–	WATER METER
—W—	–	WATER MAIN
D.I.P.	–	DUCTILE IRON PIPE
PVC	–	POLYVINYL CHLORIDE PIPE
P.P.	–	POWER POLE
S.P.	–	SERVICE POLE
T.P.	–	TELEPHONE POLE
P.B.	–	POWER TRANSFORMER BOX
T.R.	–	TELEPHONE RISER
—E—	–	ELECTRICAL LINE
—T—	–	TELEPHONE CABLE
—G—	–	GAS MAIN
C.M.P.	–	CORRUGATED METAL PIPE
B.C.C.M.P.	–	BITUMINOUS COATED CORRUGATED PIPE
R.C.P.	–	REINFORCED CONCRETE PIPE
C.B.	–	CATCH BASIN
J.B.	–	JUNCTION BOX
M.H.	–	STORM DRAIN MANHOLE
D.I.	–	DROP INLET
E.P.	–	EDGE OF PAVEMENT
B.C.	–	BACK OF CURB

PROFILE SCALE
HORIZ. 1"=50'
VERT.: 1"=10'



REVISIONS:		
DATE	COMMENTS	
12/05	ADDRESS COMMENTS	
7/11/06	ADDRESS COMMENTS	

SEAL

GEORGIA REGISTERED No. 18702 PROFESSIONAL ENGINEER PAUL S. BOYER

GEORGIA REGISTERED No. 2641 LAND SURVEYOR CHRIS W. PATTON

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LAND SURVEYORS & ENGINEERS
909 ATLANTA HIGHWAY
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(1877) 607 2481
PHONE (770) 532 - 6492
FAX (770) 532 - 1995

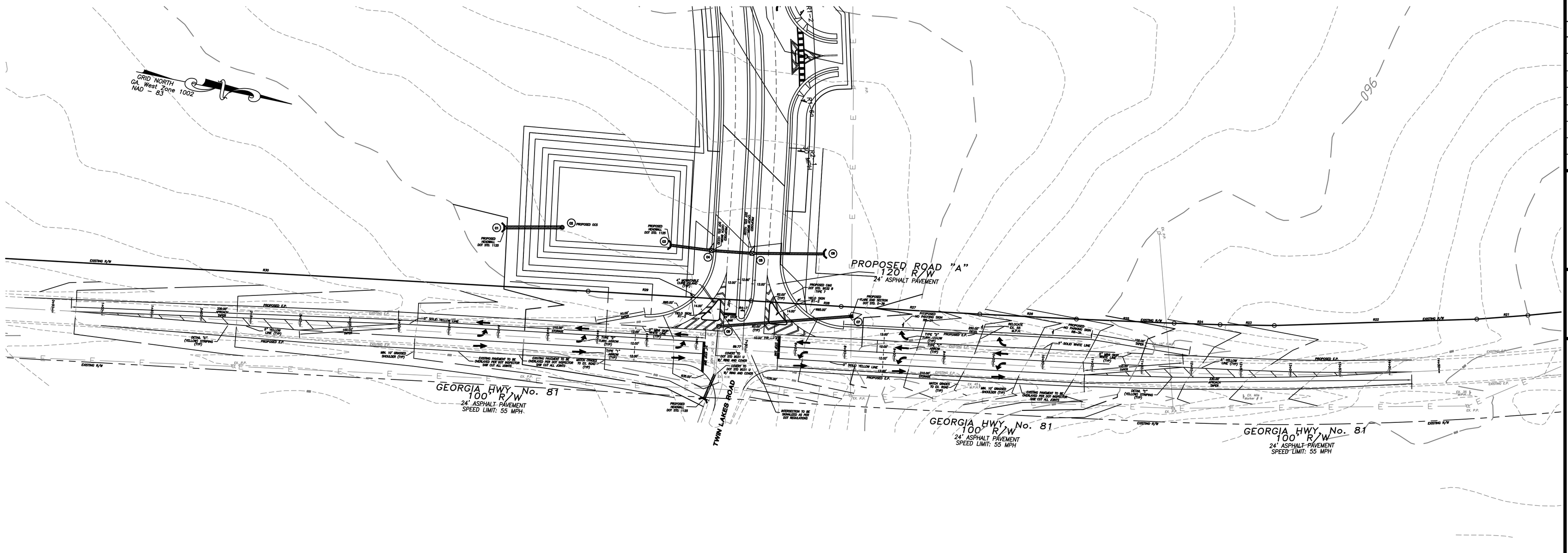
PROPOSED ROAD PLAN AND PROFILE FOR:
NEW HORIZON PARTNERSHIP, LLC
WALTON POND
LOCATED IN:
CITY OF LOGANVILLE
WALTON COUNTY, GEORGIA

SHEET NUMBER
C25 54
OF
03-243.03 MASTER ROAD

SCALE
1" = 50'

DATE
8/12/05

PROJECT NO.
03-243.03



FOR EROSION CONTROL MEASURES
SEE PAGE: C13

FOR SECTION PROFILES ALONG
GA HWY 81 SEE PAGE: C30–C31

FOR CONSTRUCTION AND STRIPING DETAILS
SEE PAGE: C48–C53

LEGEND:

- ○R.B.F. – REBAR PIN FOUND
- ●R.B.S. – REBAR PIN SET
- ○O.T.F. – OPEN TOP FOUND
- ⊡C.M.F. – CONCRETE MONUMENT FOUND
- P/L – PROPERTY LINE
- R/W – RIGHT OF WAY
- N/F – NOW OR FORMERLY
- C/L – CENTER LINE
- F.H. – FIRE HYDRANT
- G.V. – GATE VALVE
- W.M. – WATER METER
- W — WATER MAIN
- P.P. – POWER POLE
- P.B. – POWER TRANSFORMER BOX
- T.R. – TELEPHONE RISER
- E — ELECTRICAL LINE
- M.B. – MAIL BOX
- C.M.P. – CORRUGATED METAL PIPE
- B.C.C.M.P. – BITUMINOUS COATED CORRUGATED PIPE
- R.C.P. – REINFORCED CONCRETE PIPE
- C.B. – CATCH BASIN
- J.B. – JUNCTION BOX
- M.H. – STORM DRAIN MANHOLE
- W.I. – WEIR INLET
- E.P. – EDGE OF PAVEMENT
- B.C. – BACK OF CURB
- D.E. – DRAINAGE EASEMENT

STATE WATERS BUFFER:

A 25 FOOT UNDISTURBED VEGETATIVE BUFFER, (PLUS 2 FEET IN WIDTH FOR EVERY 1% SLOPE, MEASURED ALONG A LINE PERPENDICULAR TO THE STREAM BANK), ADJACENT TO ALL RUNNING STREAMS WILL BE LEFT AND MAINTAINED.

THIS SITE DOES CONTAIN STATE WATERS REQUIRING AN UNDISTURBED VEGETATIVE BUFFER.

Wetlands Certification:

The design professional whose seal appears herein certifies the following: (1) the National Wetlands Inventory Map has been consulted; (2) the appropriate plan sheet

☐ DOES ☑ DOES NOT

indicate wetlands as shown on the map; and (3) if wetlands are indicated the landowner or developer has been advised that land disturbance of protected wetlands shall not occur unless the appropriate Section 404 Permit or Letter of

FLOOD INFORMATION:

A PORTION OF THIS LOCATED WITHIN ZONE A, AREAS OF 100-YEAR FLOOD PLAIN AS PER F.I.R.M. FLOOD INSURANCE RATE MAP OF WALTON COUNTY, GEORGIA. COMMUNITY PANEL NO. 13297 C0060B EFFECTIVE DATE: 2/16/1990

CONTOUR INFORMATION:

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DATE OF PHOTOGRAPHY: APRIL 3, 2004
CONTOUR INTERVAL: 2 FEET
CONTOUR DATUM: MEAN-SEA LEVEL

OWNER and DEVELOPER:
NEW HORIZON PARTNERSHIP, LLC
2857 BRIDGEVIEW DRIVE
GAINESVILLE, GEORGIA 30507
(24 Hour Contact)
MR. DAVID DERUSHA
PHONE: 678-410-1569

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GRAPHIC SCALE

50 0 50 100 200
1 inch = 50 ft.

REVISIONS

NO.	DATE	REMARKS
1	12/05	COMMENTS
2.	7/11	COMMENTS

SEAL

GEORGIA REGISTERED No. 18702 PROFESSIONAL ENGINEER PAUL S. BOYER

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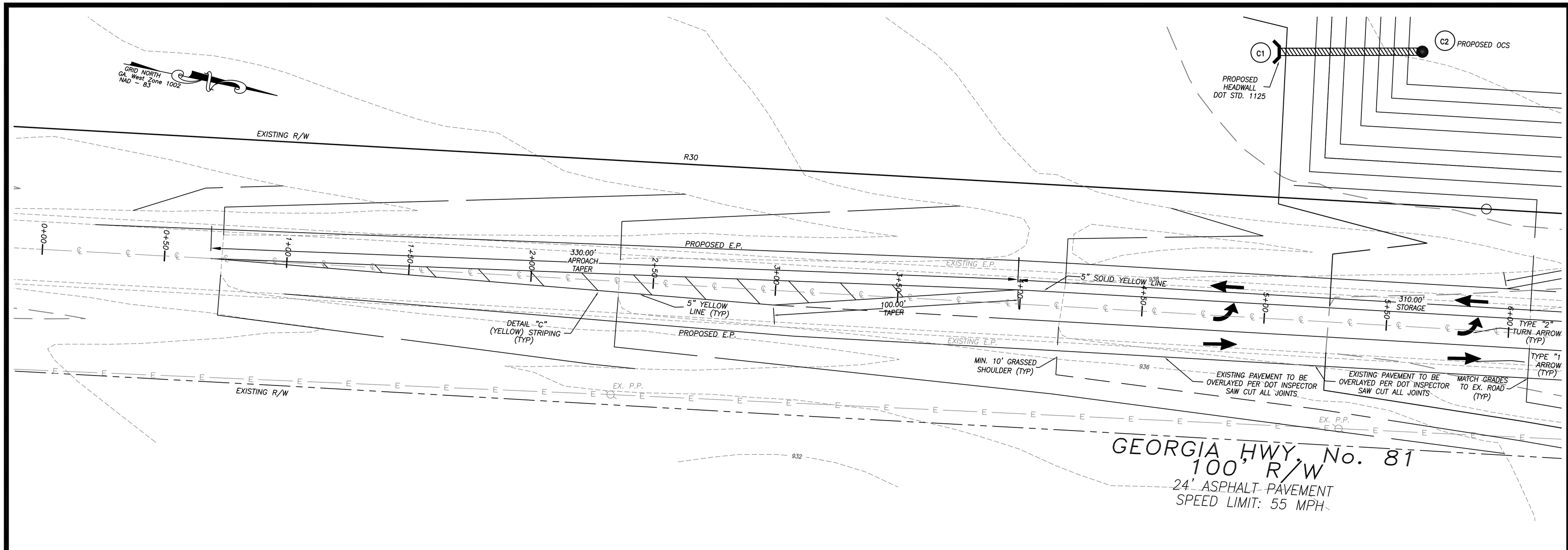
OVERALL GA HWY 81 ENTRANCE PLAN:
FOR
NEW HORIZON PARTNERSHIP, LLC
CITY OF LOGANVILLE
WALTON COUNTY, GEORGIA

SHEET NUMBER
C26 54
of
03-243.03 ENTRANCE

SCALE
1" = 50'

DATE
8/12/05

PROJECT NO.
03-243.03



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LEGEND:

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A 25 FOOT UNDISTURBED VEGETATIVE BUFFER, (PLUS 2 FEET IN WIDTH FOR EVERY 1% SLOPE, MEASURED ALONG A LINE PERPENDICULAR TO THE STREAM BANK), ADJACENT TO ALL RUNNING STREAMS WILL BE LEFT AND MAINTAINED.

THIS SITE DOES CONTAIN STATE WATERS REQUIRING AN UNDISTURBED VEGETATIVE BUFFER.

Wetlands Certification:

The design professional whose seal appears herein certifies the following: (1) the National Wetlands Inventory Map has been consulted; (2) the appropriate plan sheet

☐ DOES ☑ DOES NOT

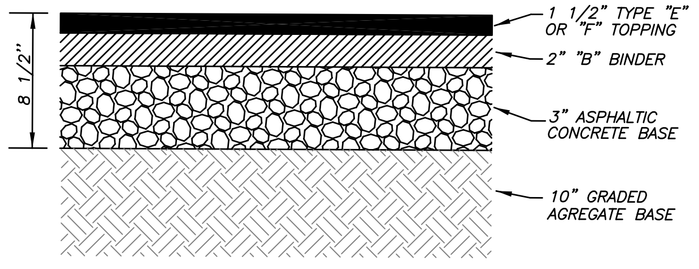
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PAVEMENT CROSS SECTION DETAIL

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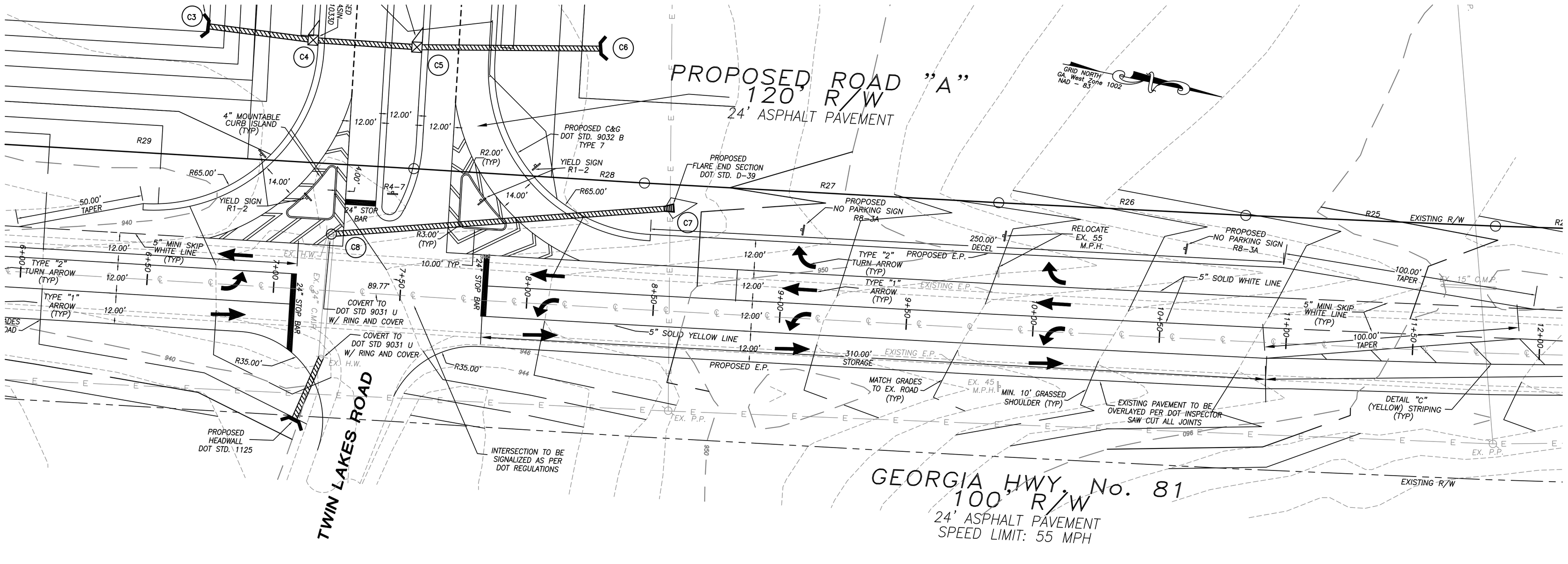
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SHEET NUMBER
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03–243.03 ENTRANCE

SCALE
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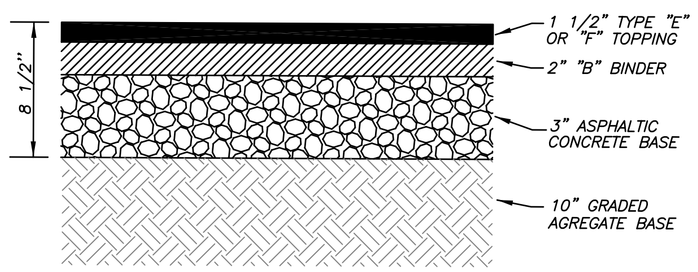
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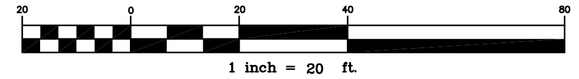
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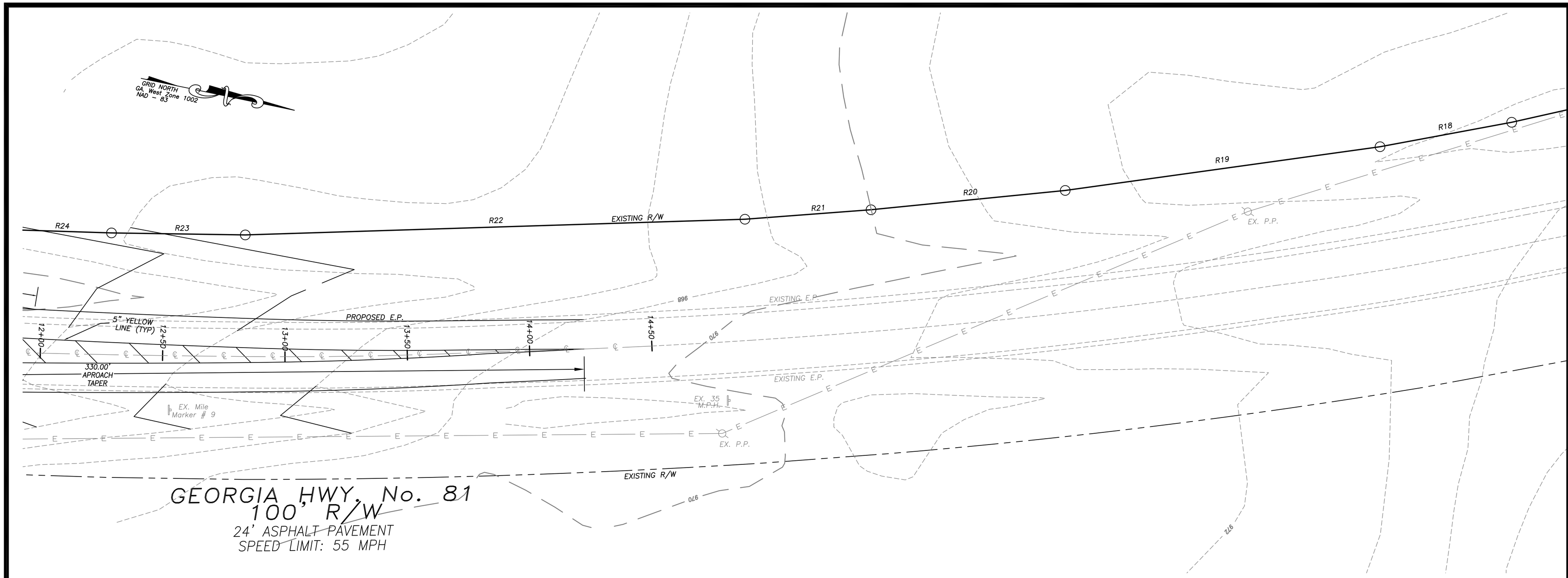
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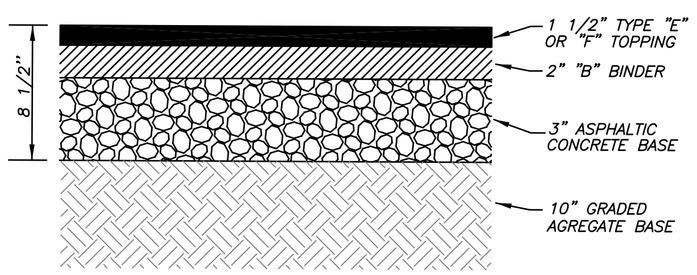
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J.B.	–	JUNCTION BOX
M.H.	–	STORM DRAIN MANHOLE
W.I.	–	WEIR INLET
E.P.	–	EDGE OF PAVEMENT
B.C.	–	BACK OF CURB
D.E.	–	DRAINAGE EASEMENT

STATE WATERS BUFFER:

A 25 FOOT UNDISTURBED VEGETATIVE BUFFER, (PLUS 2 FEET IN WIDTH FOR EVERY 1% SLOPE, MEASURED ALONG A LINE PERPENDICULAR TO THE STREAM BANK), ADJACENT TO ALL RUNNING STREAMS WILL BE LEFT AND MAINTAINED.

THIS SITE DOES CONTAIN STATE WATERS REQUIRING AN UNDISTURBED VEGETATIVE BUFFER.

Wetlands Certification:

The design professional whose seal appears herein certifies the following: (1) the National Wetlands Inventory Map has been consulted; (2) the appropriate plan sheet

☐ DOES ☑ DOES NOT

indicate wetlands as shown on the map; and (3) if wetlands are indicated the landowner or developer has been advised that land disturbance of protected wetlands shall not occur unless the appropriate Section 404 Permit or Letter of

FLOOD INFORMATION:

A PORTION OF THIS LOCATED WITHIN ZONE A, AREAS OF 100–YEAR FLOOD PLAIN AS PER F.I.R.M. FLOOD INSURANCE RATE MAP OF WALTON COUNTY, GEORGIA. COMMUNITY PANEL NO. 13297 C0060B EFFECTIVE DATE: 2/16/1990

CONTOUR INFORMATION:

CONTOURS SHOWN HEREON WERE COMPILED BY JACK W. BERRY & ASSOCIATES, Inc., USING STEREOPHOTOGRAMMETRIC METHODS. DATE OF PHOTOGRAPHY: APRIL 3, 2004
CONTOUR INTERVAL: 2 FEET
CONTOUR DATUM: MEAN–SEA LEVEL

GRAPHIC SCALE

20 0 20 40 80
1 inch = 20 ft.

REVISIONS

NO.	DATE	REMARKS
1	12/05	COMMENTS
2.	7/11	COMMENTS

SEAL

GEORGIA REGISTERED No. 18702 PROFESSIONAL ENGINEER PAUL S. BOYER

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Patton-Boyer, Inc.
CIVIL ENGINEERS & LAND SURVEYORS
600 ATLANTA HWY
GAINESVILLE, GEORGIA 30501
PHONE (770) 532 – 6492
FAX (770) 532 – 1995

GA HWY 81 ENTRANCE PLAN:
FOR
NEW HORIZON PARTNERSHIP, LLC
CITY OF LOGANVILLE
WALTON COUNTY, GEORGIA

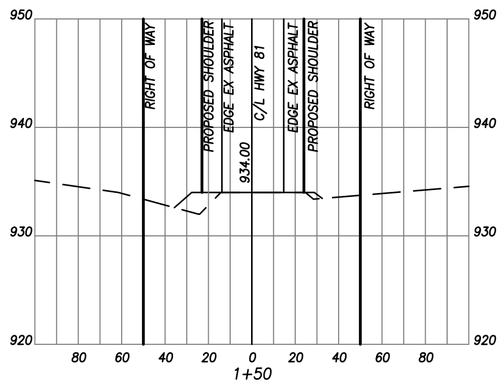
SHEET NUMBER
C29 54
of
03–243.03 ENTRANCE

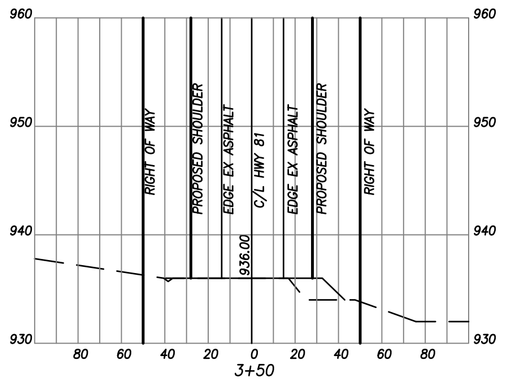
SCALE
1' = 20'

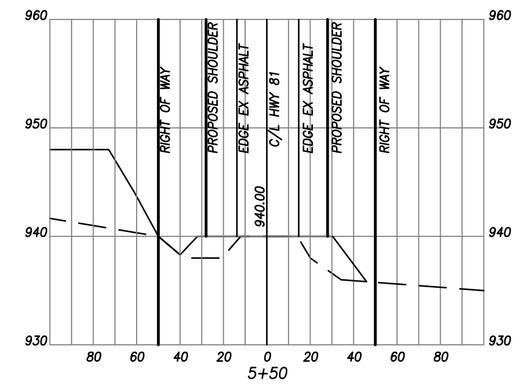
DATE
8/12/05

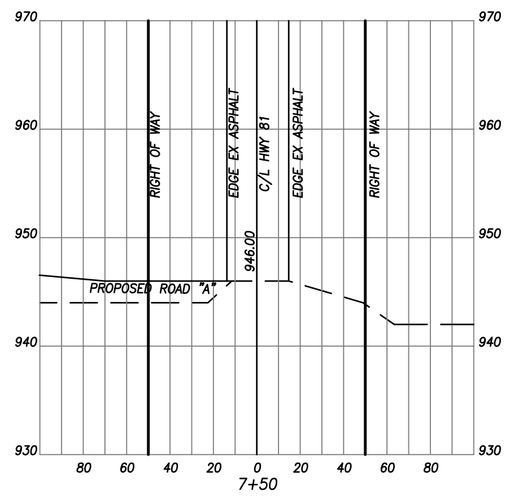
PROJECT NO.
03–243.03

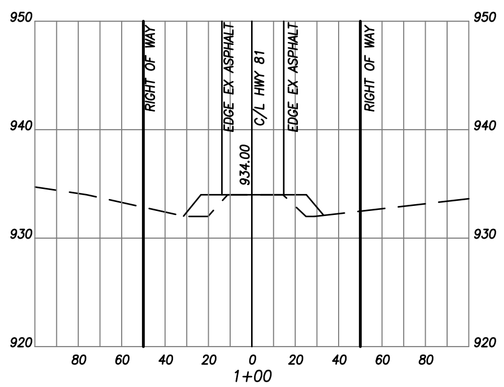
SECTION PROFILES ALONG HWY 81

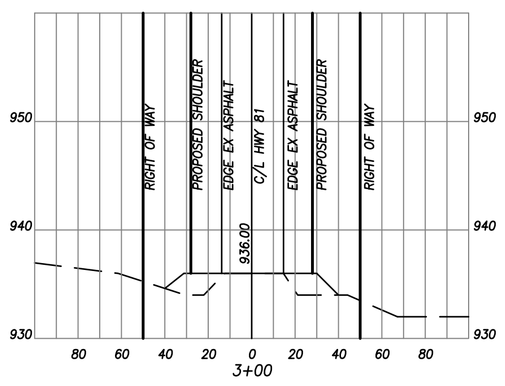


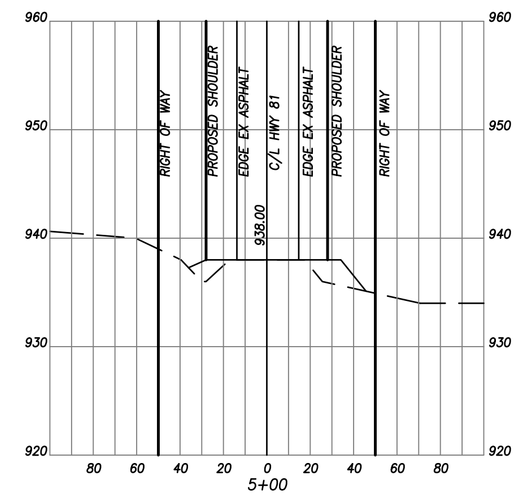


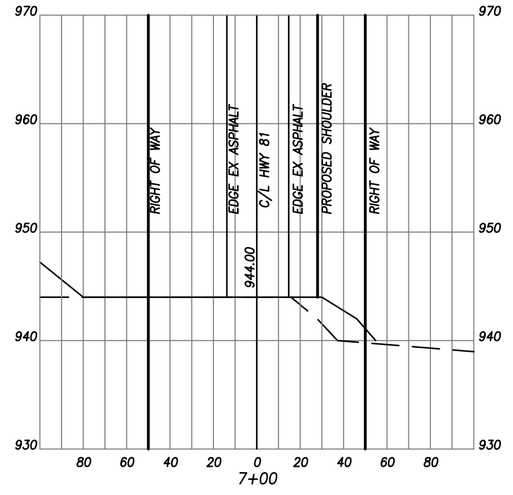


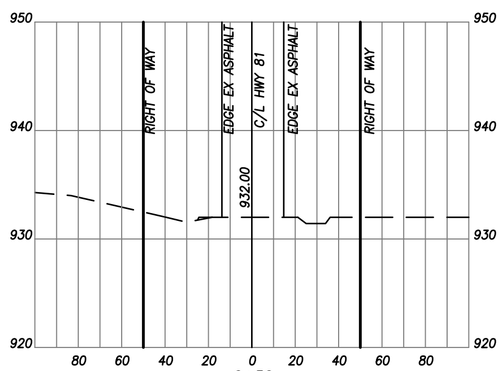


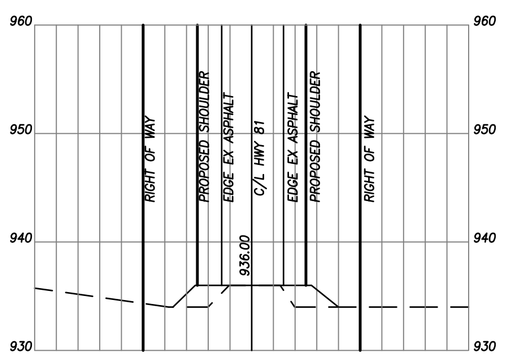


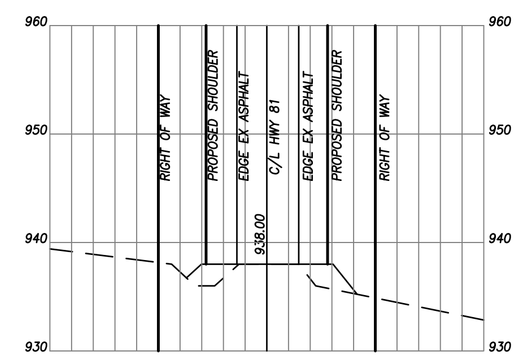


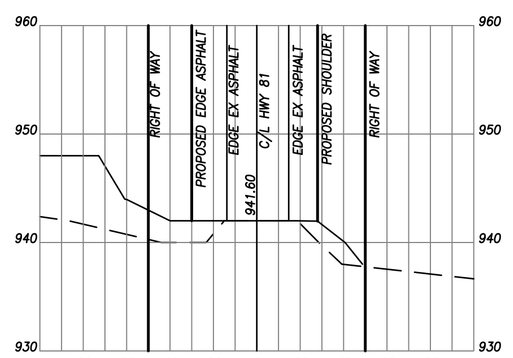


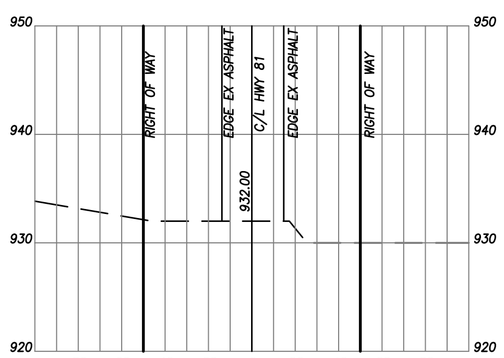


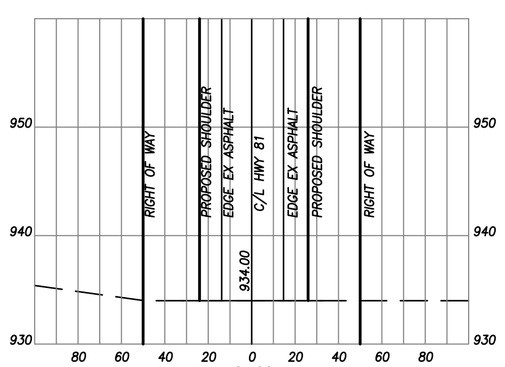


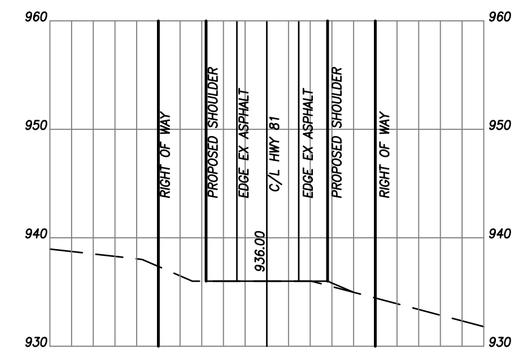


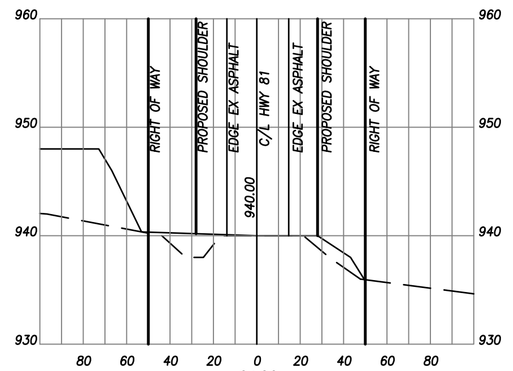












GRAPHIC SCALE

50 0 50 100 200

1 inch = 50 ft.

REVISIONS

NO.	DATE	REMARKS
1	12/05	COMMENTS
2.	7/11	COMMENTS

SEAL

GEORGIA REGISTERED No. 18702 PROFESSIONAL ENGINEER PAUL S. BOYER

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GA HWY 81 SECTION PROFILES:
FOR
NEW HORIZON PARTNERSHIP, LLC
CITY OF LOGANVILLE
WALTON COUNTY, GEORGIA

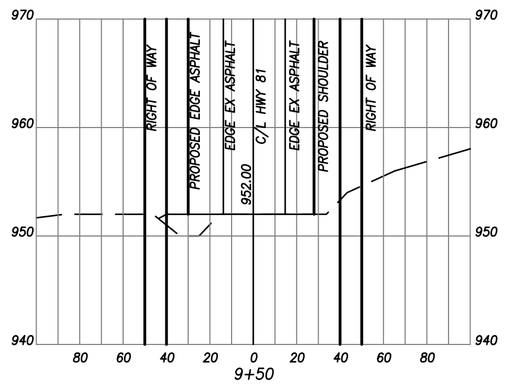
SHEET NUMBER
C30 54
of
03–243.03 ENTRANCE

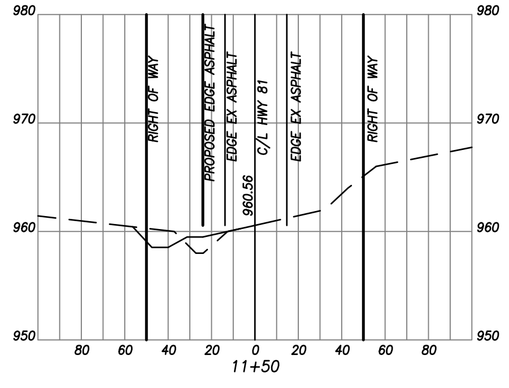
SCALE
1' = 50'

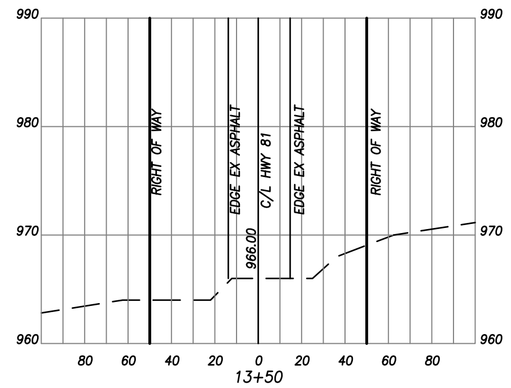
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8/12/05

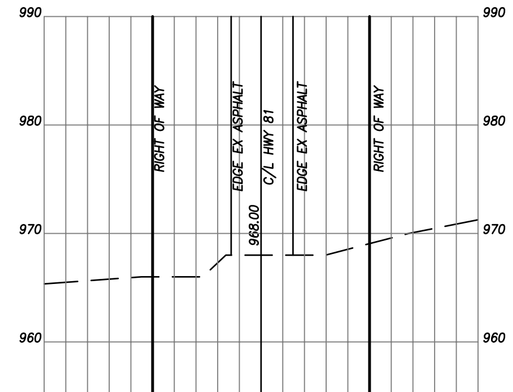
PROJECT NO.
03–243.03

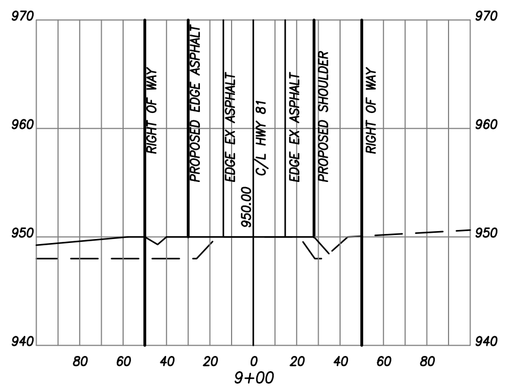
SECTION PROFILES ALONG HWY 81

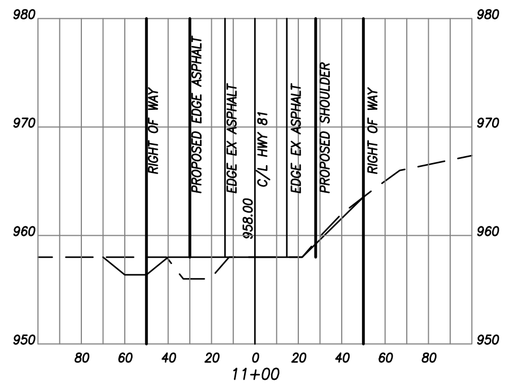


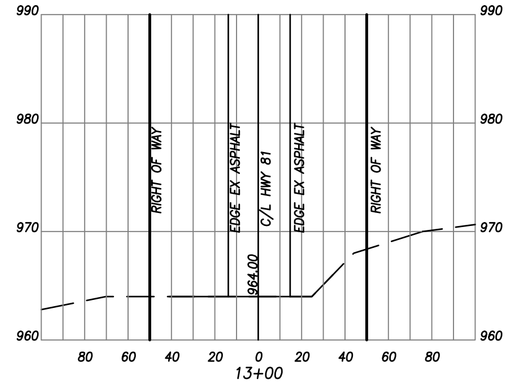


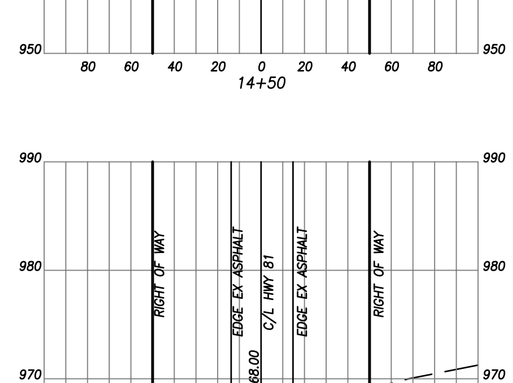


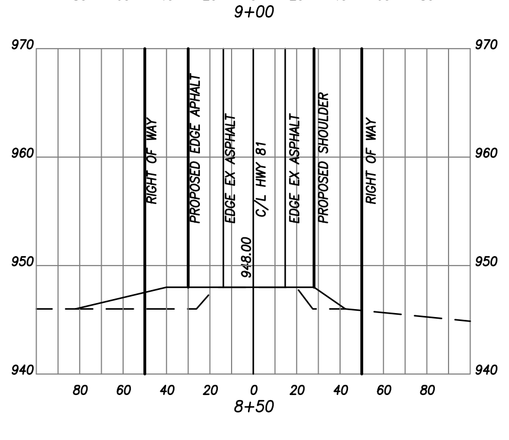


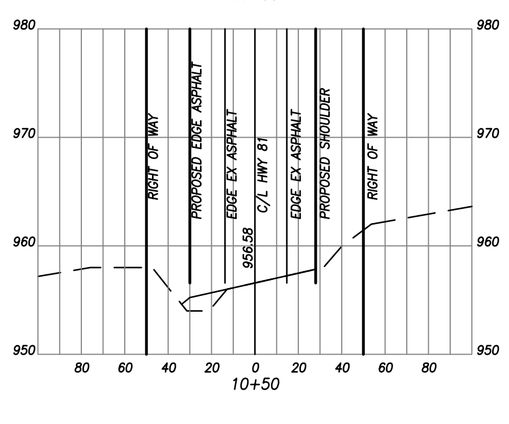


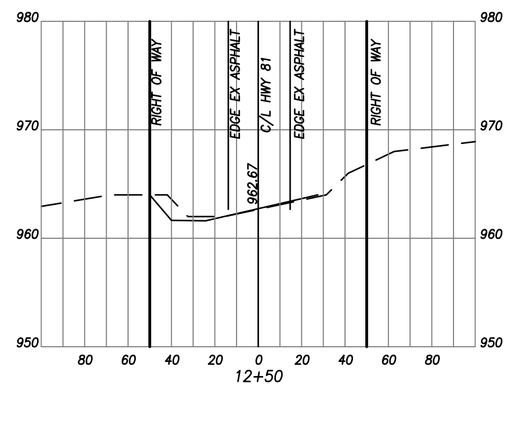


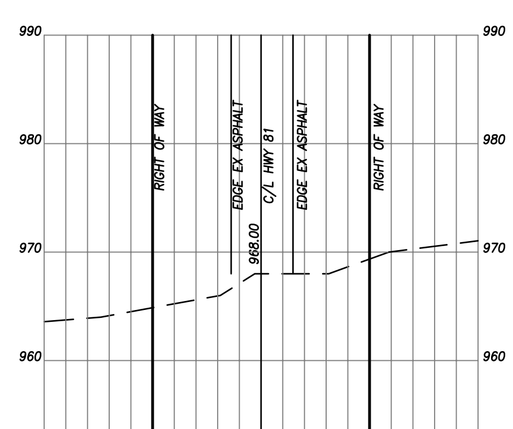


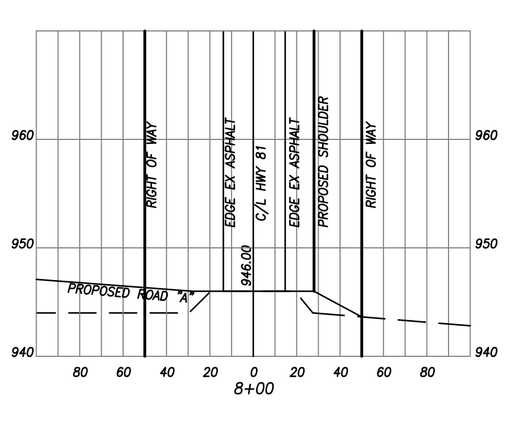


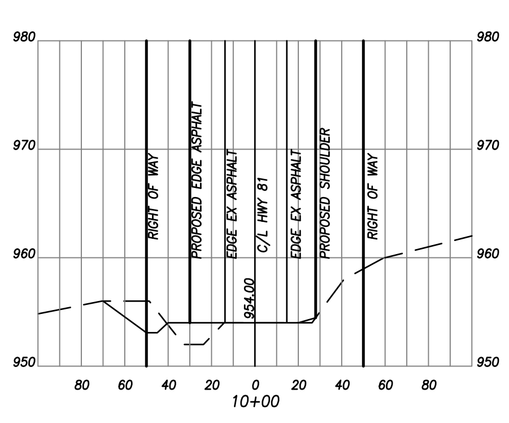


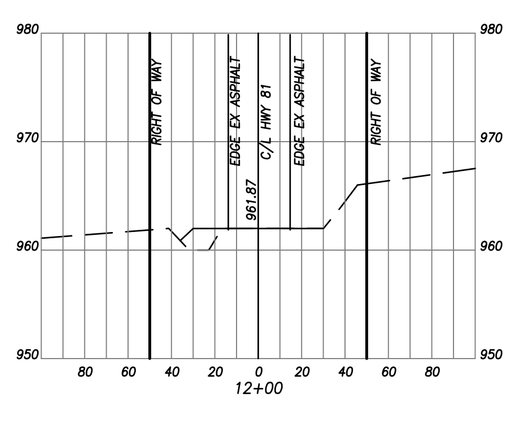












GRAPHIC SCALE

50 0 50 100 200

1 inch = 50 ft.

REVISIONS

NO.	DATE	REMARKS
1	12/05	COMMENTS
2.	7/11	COMMENTS

SEAL

GEORGIA REGISTERED No. 18702 PROFESSIONAL ENGINEER PAUL S. BOYER

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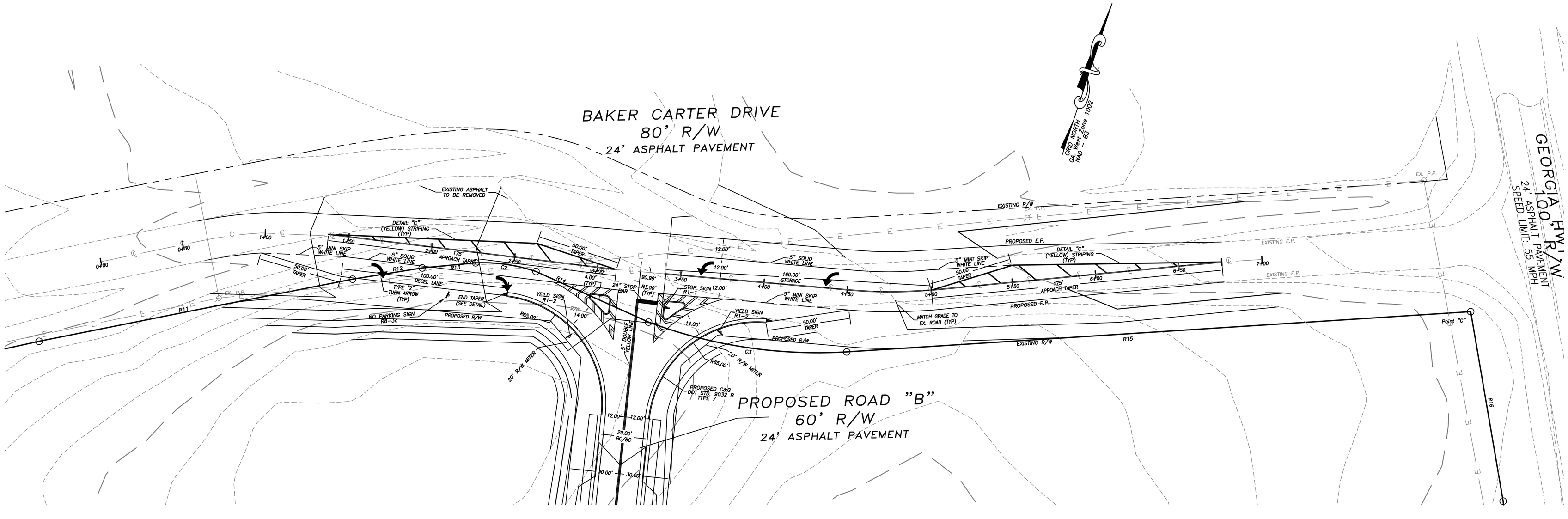
GA HWY 81 SECTION PROFILES:
FOR
NEW HORIZON PARTNERSHIP, LLC
CITY OF LOGANVILLE
WALTON COUNTY, GEORGIA

SHEET NUMBER
C31 54
of
03-243.03 ENTRANCE

SCALE
1' = 50'

DATE
8/12/05

PROJECT NO.
03-243.03



FOR EROSION CONTROL MEASURES
SEE PAGE: C13

FOR SECTION PROFILES ALONG
BAKER CARTER DRIVE SEE PAGE: C35

FOR CONSTRUCTION AND STRIPING DETAILS
SEE PAGE: C48–C53

LEGEND:

- ○R.B.F. – REBAR PIN FOUND
- ○R.B.S. – REBAR PIN SET
- ○O.T.F. – OPEN TOP FOUND
- □C.M.F. – CONCRETE MONUMENT FOUND
- P/L – PROPERTY LINE
- R/W – RIGHT OF WAY
- N/F – NOW OR FORMERLY
- C/L – CENTER LINE
- ◆F.H. – FIRE HYDRANT
- ⊗G.V. – GATE VALVE
- ⊠W.M. – WATER METER
- —W— – WATER MAIN
- ●P.P. – POWER POLE
- □P.B. – POWER TRANSFORMER BOX
- ⊞T.R. – TELEPHONE RISER
- —E— – ELECTRICAL LINE
- ⊞M.B. – MAIL BOX
- C.M.P. – CORRUGATED METAL PIPE
- B.C.C.M.P. – BITUMINOUS COATED CORRUGATED PIPE
- R.C.P. – REINFORCED CONCRETE PIPE
- C.B. – CATCH BASIN
- ⊗J.B. – JUNCTION BOX
- ⊗M.H. – STORM DRAIN MANHOLE
- ▣W.I. – WEIR INLET
- E.P. – EDGE OF PAVEMENT
- B.C. – BACK OF CURB
- D.E. – DRAINAGE EASEMENT

STATE WATERS BUFFER:

A 25 FOOT UNDISTURBED VEGETATIVE BUFFER, (PLUS 2 FEET IN WIDTH FOR EVERY 1% SLOPE, MEASURED ALONG A LINE PERPENDICULAR TO THE STREAM BANK), ADJACENT TO ALL RUNNING STREAMS WILL BE LEFT AND MAINTAINED.

THIS SITE DOES CONTAIN STATE WATERS REQUIRING AN UNDISTURBED VEGETATIVE BUFFER.

Wetlands Certification:

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☐ DOES ☑ DOES NOT

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CONTOUR INFORMATION:

CONTOURS SHOWN HEREON WERE COMPILED BY JACK W. BERRY & ASSOCIATES, Inc., USING STEREOPHOTOGRAMMETRIC METHODS.
DATE OF PHOTOGRAPHY: APRIL 3, 2004
CONTOUR INTERVAL: 2 FEET
CONTOUR DATUM: MEAN-SEA LEVEL

OWNER and DEVELOPER:
NEW HORIZON PARTNERSHIP, LLC
2857 BRIDGEVIEW DRIVE
GAINESVILLE, GEORGIA 30507
(24 Hour Contact)
MR. DAVID DERUSHA
PHONE: 678-410-1569

BEFORE YOU DIG...

THE PRESENCE, SIZE, AND LOCATION OF THE EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED UPON INFORMATION OBTAINED FROM PREVIOUS CONSTRUCTION PLANS AND VISIBLE ABOVE GROUND STRUCTURES. THE ACTUAL LOCATION, SIZE, AND TYPE OF MATERIAL MAY VARY UPON EXCAVATION. THERE MAY BE OTHER EXISTING UTILITIES ON THIS SITE THAT ARE NOT SHOWN ON THIS PLAN. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES PRIOR TO ANY DEMOLITION, EXCAVATION, AND/OR CONSTRUCTION. THE CONTRACTOR IS ADVISED TO CONTACT THE LOCAL UNDERGROUND UTILITY LOCATOR SERVICE PRIOR TO ANY DEMOLITION, EXCAVATION, AND/OR CONSTRUCTION.

UTILITIES PROTECTION CENTER, INC.

Call FREE
THROUGHOUT GEORGIA
1 – 800 – 282 – 7411
IN ATLANTA: 325 – 5000
THREE WORKING DAYS BEFORE YOU DIG
ITS THE LAW

GRAPHIC SCALE

30 0 30 60 120
1 inch = 30 ft.

REVISIONS

NO.	DATE	REMARKS
1	12/05	COMMENTS
2.	7/11	COMMENTS

SEAL

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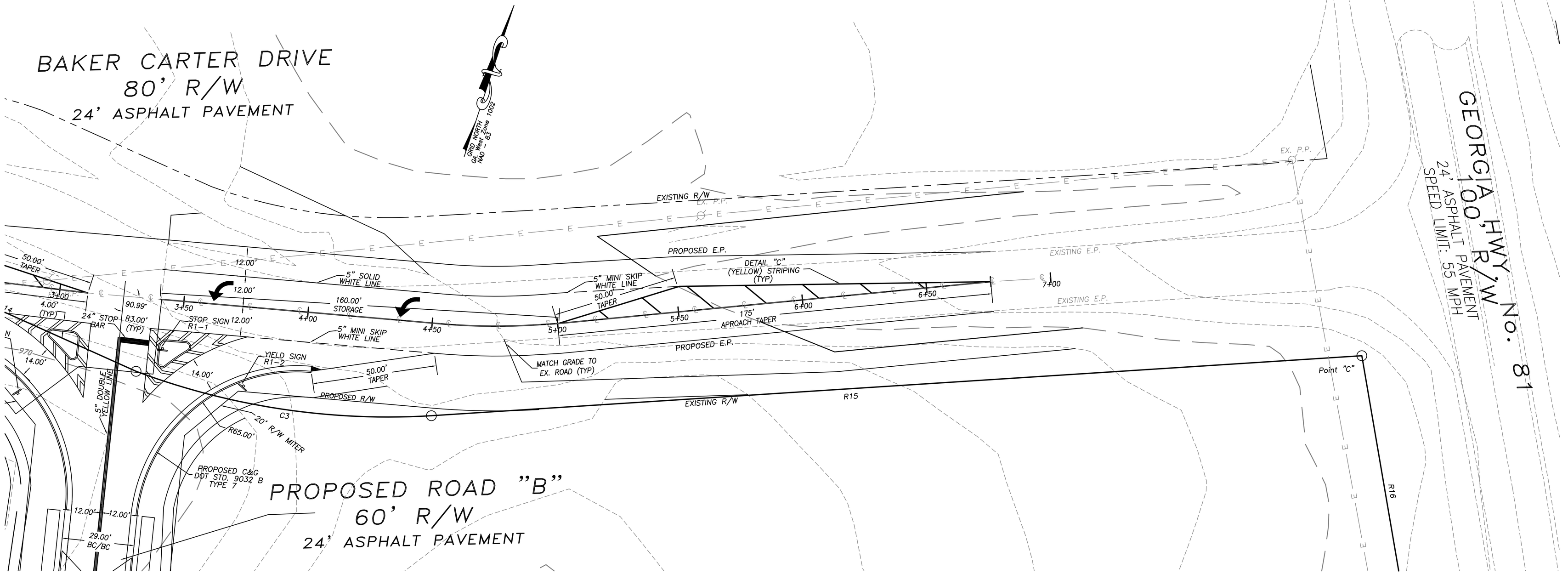
OVERALL BAKER CARTER ROAD ENTRANCE PLAN:
FOR
NEW HORIZON PARTNERSHIP, LLC
CITY OF LOGANVILLE
WALTON COUNTY, GEORGIA

SHEET NUMBER
C32 54
of
03-243.03 ENTRANCE

SCALE
1' = 30'

DATE
8/12/05

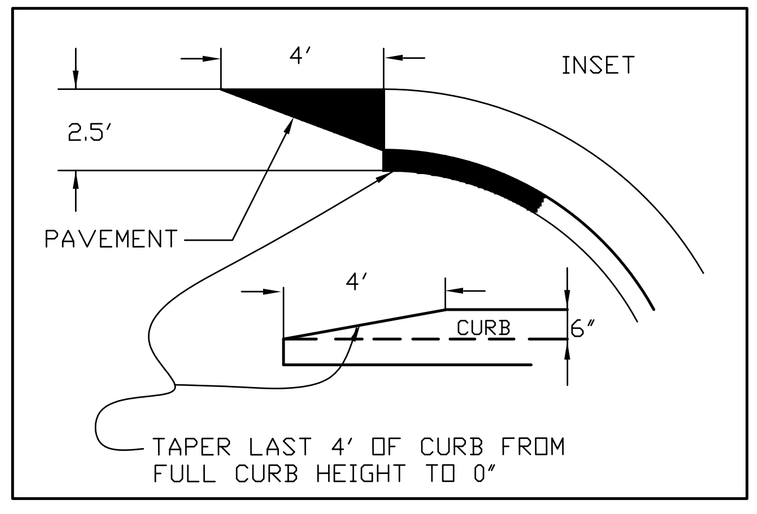
PROJECT NO.
03-243.03

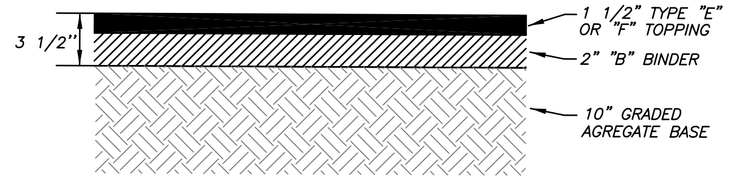


FOR EROSION CONTROL MEASURES
SEE PAGE: C13

FOR SECTION PROFILES ALONG
BAKER CARTER DRIVE SEE PAGE: C35

FOR CONSTRUCTION AND STRIPING DETAILS
SEE PAGE: C48–C53





PAVEMENT CROSS SECTION DETAIL

SAWCUT REQUIRED AT EDGE OF PAVEMENT TO PROVIDE JOINT UNIFORMITY.

LEGEND:

⊙R.B.F.	–	REBAR PIN FOUND
○R.B.S.	–	REBAR PIN SET
⊙O.T.F.	–	OPEN TOP FOUND
□C.M.F.	–	CONCRETE MONUMENT FOUND
P/L	–	PROPERTY LINE
R/W	–	RIGHT OF WAY
N/F	–	NOW OR FORMERLY
C/L	–	CENTER LINE
F.H.	–	FIRE HYDRANT
G.V.	–	GATE VALVE
W.M.	–	WATER METER
–W–	–	WATER MAIN
P.P.	–	POWER POLE
P.B.	–	POWER TRANSFORMER BOX
T.R.	–	TELEPHONE RISER
–E–	–	ELECTRICAL LINE
M.B.	–	MAIL BOX
C.M.P.	–	CORRUGATED METAL PIPE
B.C.C.M.P.	–	BITUMINOUS COATED CORRUGATED PIPE
R.C.P.	–	REINFORCED CONCRETE PIPE
C.B.	–	CATCH BASIN
J.B.	–	JUNCTION BOX
M.H.	–	STORM DRAIN MANHOLE
W.I.	–	WEIR INLET
E.P.	–	EDGE OF PAVEMENT
B.C.	–	BACK OF CURB
D.E.	–	DRAINAGE EASEMENT

STATE WATERS BUFFER:

A 25 FOOT UNDISTURBED VEGETATIVE BUFFER, (PLUS 2 FEET IN WIDTH FOR EVERY 1% SLOPE, MEASURED ALONG A LINE PERPENDICULAR TO THE STREAM BANK), ADJACENT TO ALL RUNNING STREAMS WILL BE LEFT AND MAINTAINED.

THIS SITE DOES CONTAIN STATE WATERS REQUIRING AN UNDISTURBED VEGETATIVE BUFFER.

Wetlands Certification:

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☐ DOES ☑ DOES NOT

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FLOOD INFORMATION:

A PORTION OF THIS LOCATED WITHIN ZONE A, AREAS OF 100-YEAR FLOOD PLAIN AS PER F.I.R.M. FLOOD INSURANCE RATE MAP OF WALTON COUNTY, GEORGIA. COMMUNITY PANEL NO. 13297 C0060B EFFECTIVE DATE: 2/16/1990

CONTOUR INFORMATION:

CONTOURS SHOWN HEREON WERE COMPILED BY JACK W. BERRY & ASSOCIATES, Inc., USING STEREOPHOTOGRAMMETRIC METHODS.
DATE OF PHOTOGRAPHY: APRIL 3, 2004
CONTOUR INTERVAL: 2 FEET
CONTOUR DATUM: MEAN-SEA LEVEL

OWNER and DEVELOPER:
NEW HORIZON PARTNERSHIP, LLC
2857 BRIDGEVIEW DRIVE
GAINESVILLE, GEORGIA 30507
(24 Hour Contact)
MR. DAVID DERUSHA
PHONE: 678-410-1569

GRAPHIC SCALE

20 0 20 40 80

1 inch = 20 ft.

BEFORE YOU DIG...

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REVISIONS

NO.	DATE	REMARKS
1	12/05	COMMENTS
2.	7/11	COMMENTS

SEAL

GEORGIA REGISTERED No. 18702 PROFESSIONAL ENGINEER PAUL S. BOYER

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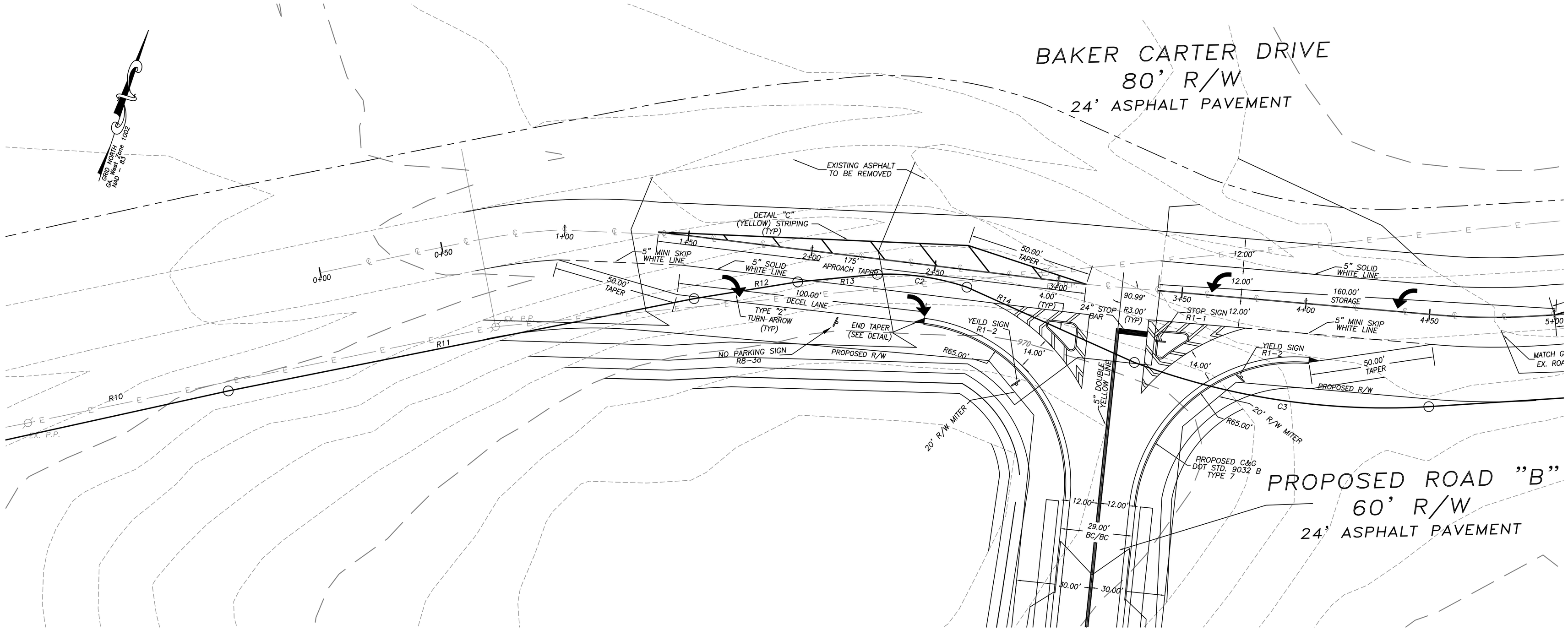
BAKER CARTER ROAD ENTRANCE PLAN:
FOR
NEW HORIZON PARTNERSHIP, LLC
CITY OF LOGANVILLE
WALTON COUNTY, GEORGIA

SHEET NUMBER
C33 54
of
03-243.03 ENTRANCE

SCALE
1' = 20'

DATE
8/12/05

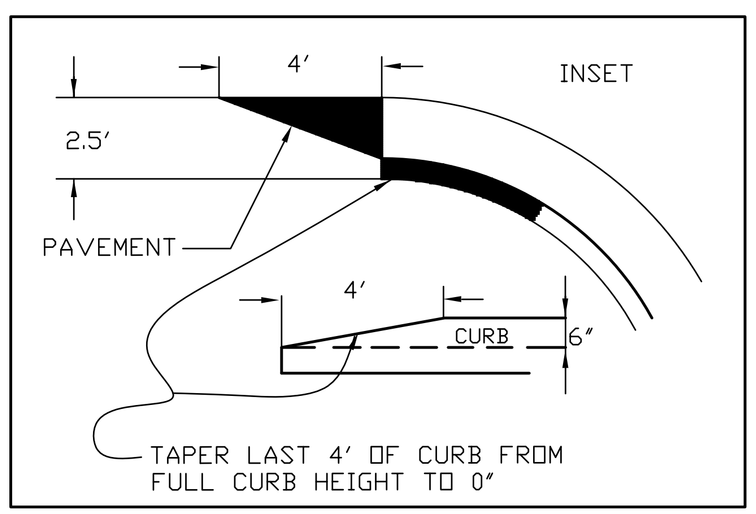
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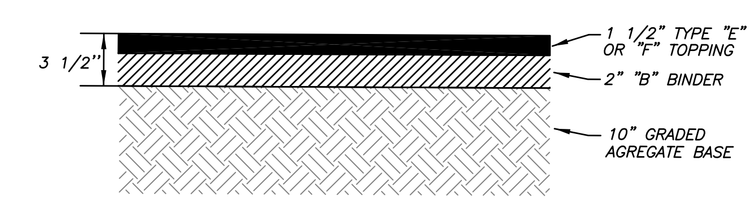


FOR EROSION CONTROL MEASURES
SEE PAGE: C13

FOR SECTION PROFILES ALONG
BAKER CARTER DRIVE SEE PAGE: C35

FOR CONSTRUCTION AND STRIPING DETAILS
SEE PAGE: C48–C53





PAVEMENT CROSS SECTION DETAIL

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BAKER CARTER ROAD ENTRANCE PLAN:
FOR
NEW HORIZON PARTNERSHIP, LLC
CITY OF LOGANVILLE
WALTON COUNTY, GEORGIA

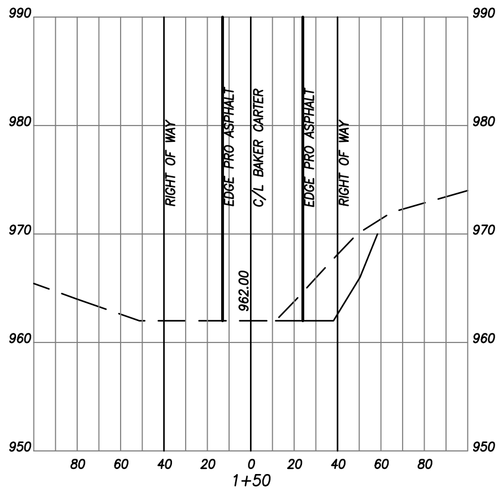
SHEET NUMBER
C34 54 of
03-243.03 ENTRANCE

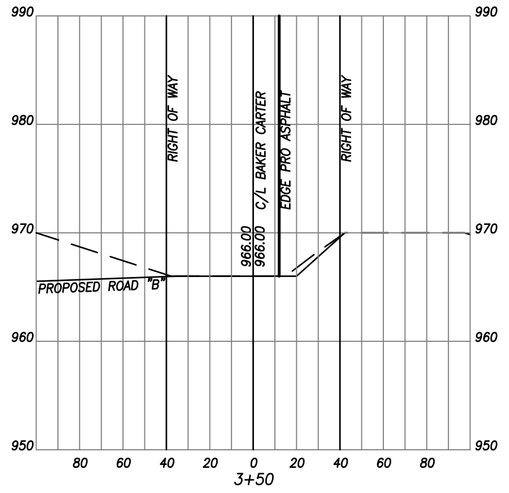
SCALE
1' = 20'

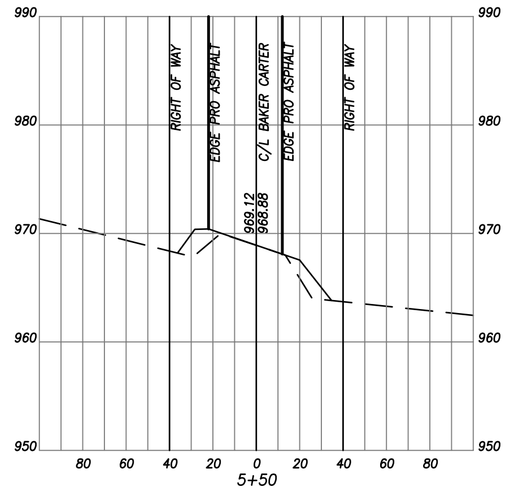
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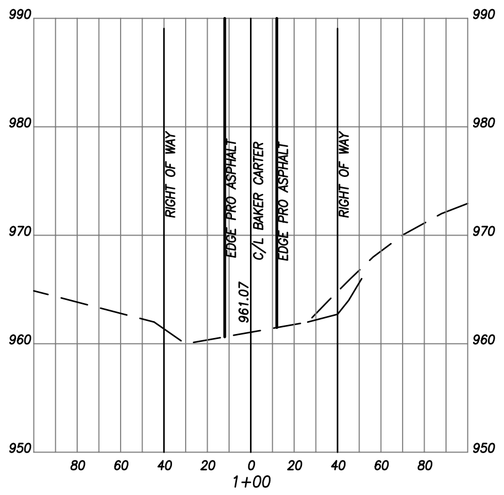
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03-243.03

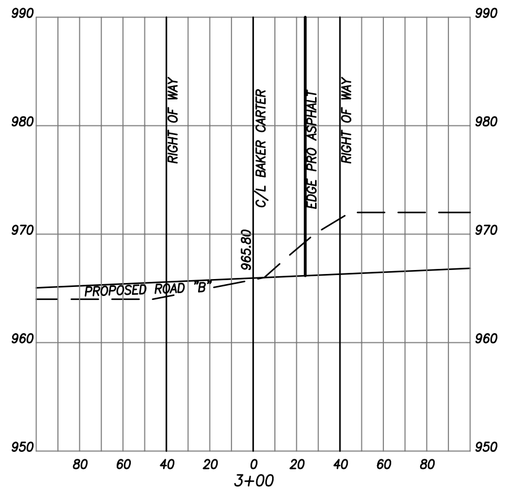
SECTION PROFILES ALONG BAKER CARTER DRIVE

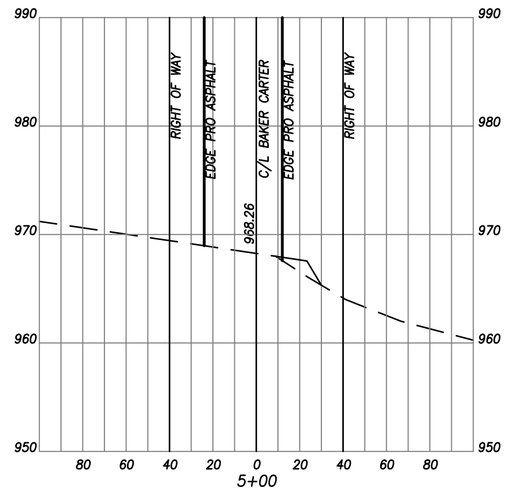


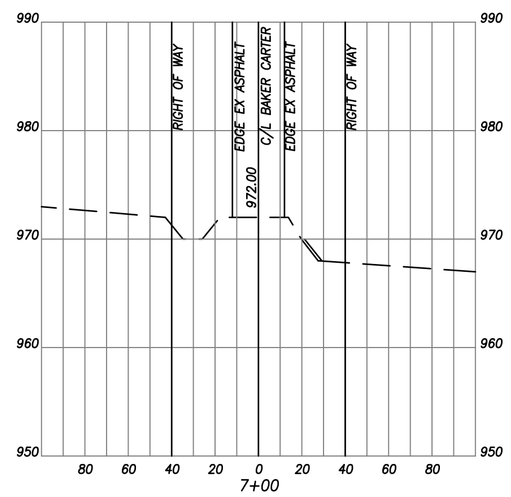


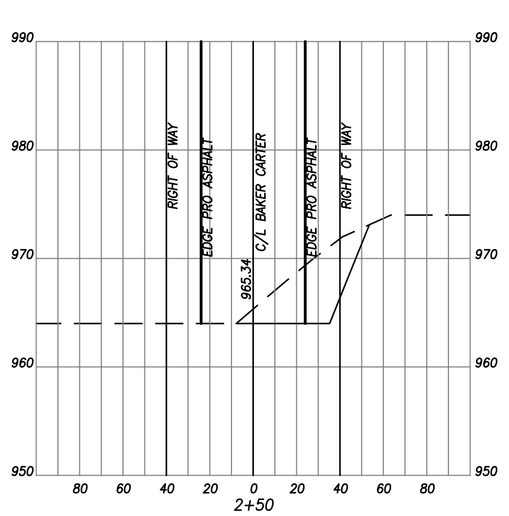


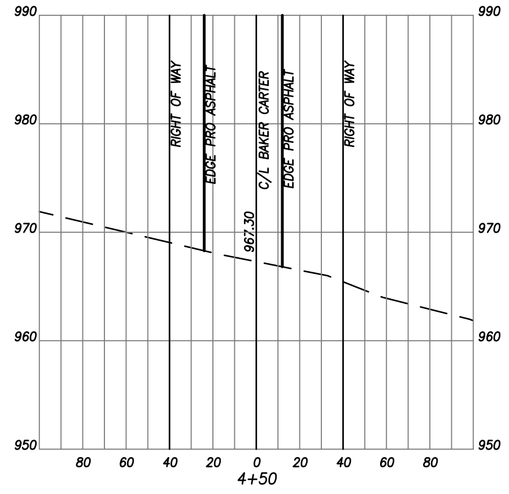


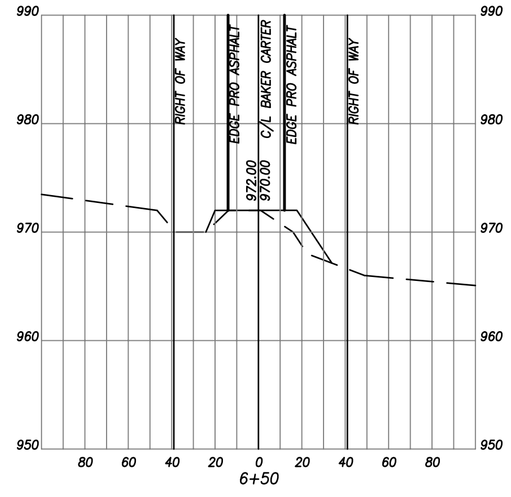


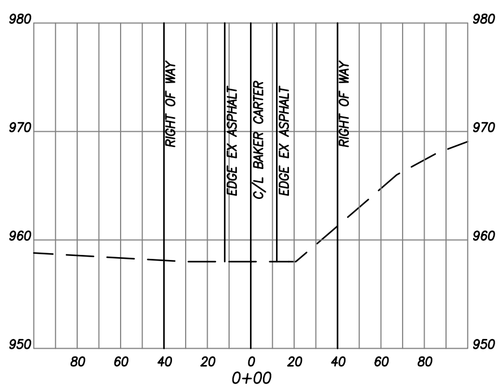


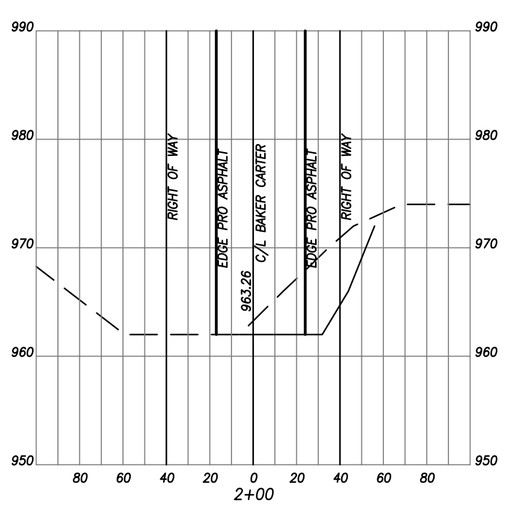


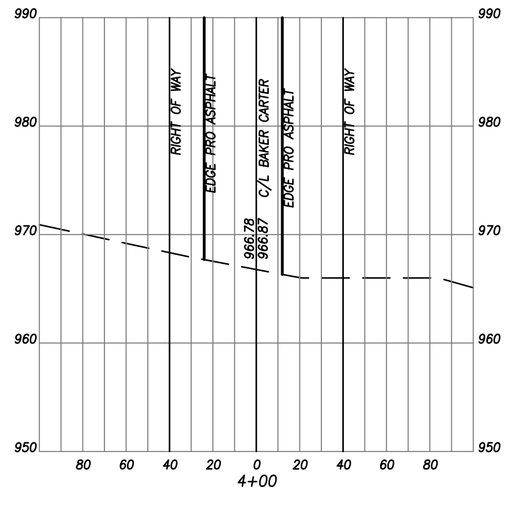


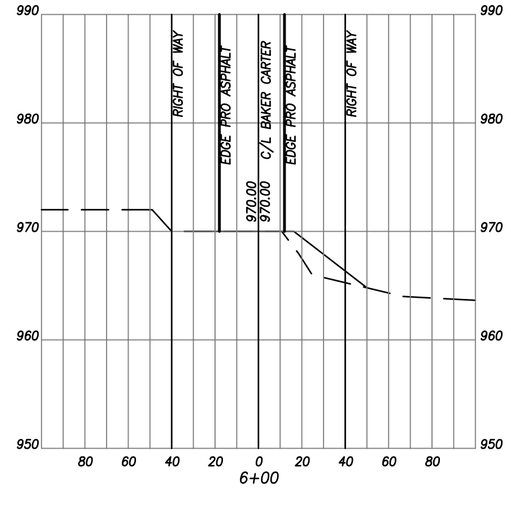












GRAPHIC SCALE

50 0 50 100 200

1 inch = 50 ft.

REVISIONS

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LAND SURVEYORS & CIVIL ENGINEERS
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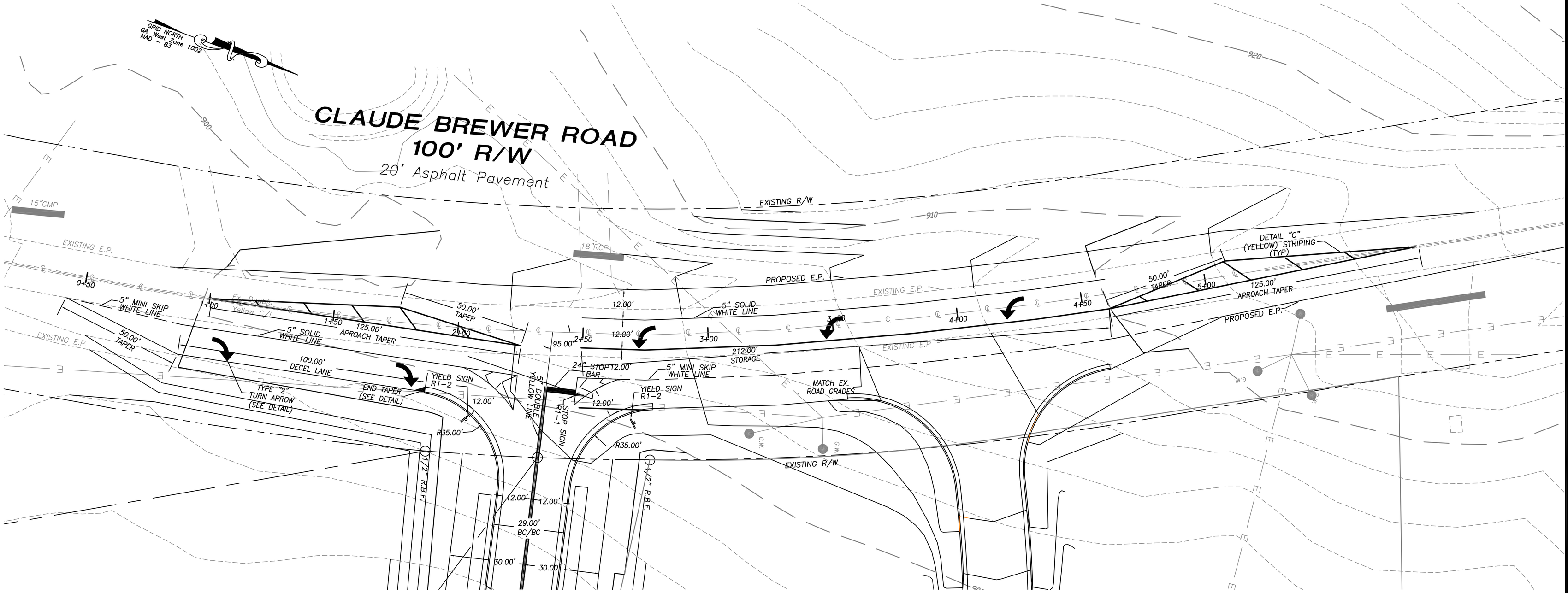
BAKER CARTER ROAD SECTION PROFILES:
FOR
NEW HORIZON PARTNERSHIP, LLC
CITY OF LOGANVILLE
WALTON COUNTY, GEORGIA

SHEET NUMBER
C35 54
of
03-243.03 ENTRANCE

SCALE
1' = 50'

DATE
8/12/05

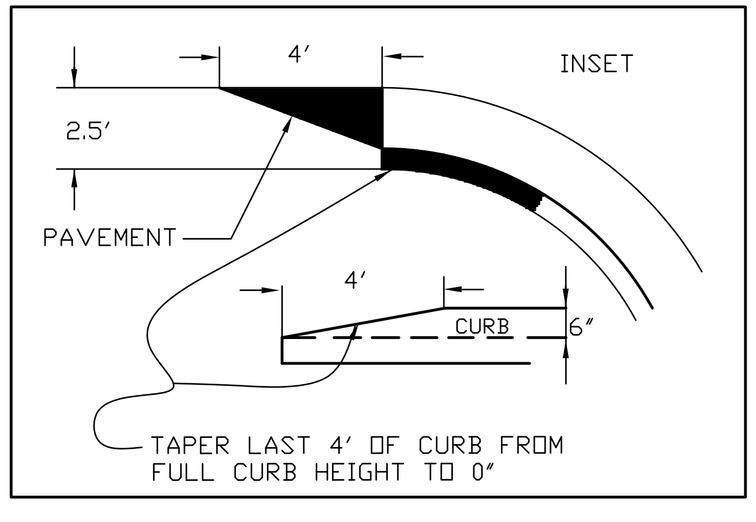
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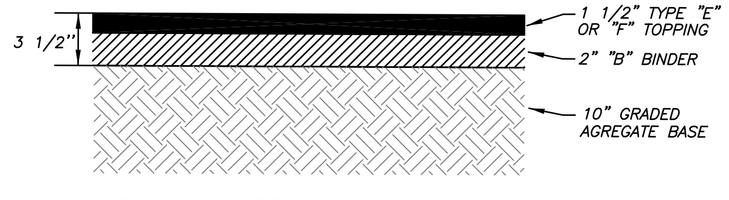


FOR EROSION CONTROL MEASURES
SEE PAGE: C11

FOR SECTION PROFILES ALONG
CLAUDE BREWER SEE PAGE: C37

FOR CONSTRUCTION AND STRIPING DETAILS
SEE PAGE: C48–C53





PAVEMENT CROSS SECTION DETAIL

SAWCUT REQUIRED AT EDGE OF PAVEMENT TO PROVIDE JOINT UNIFORMITY.

LEGEND:

- ⊙R.B.F. – REBAR PIN FOUND
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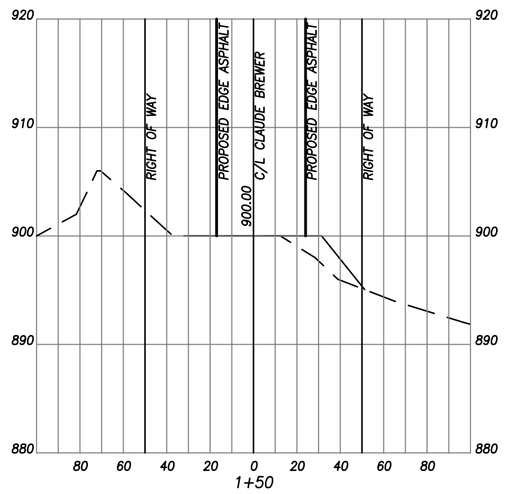
SHEET NUMBER
C36 54
of
03–243.03 ENTRANCE

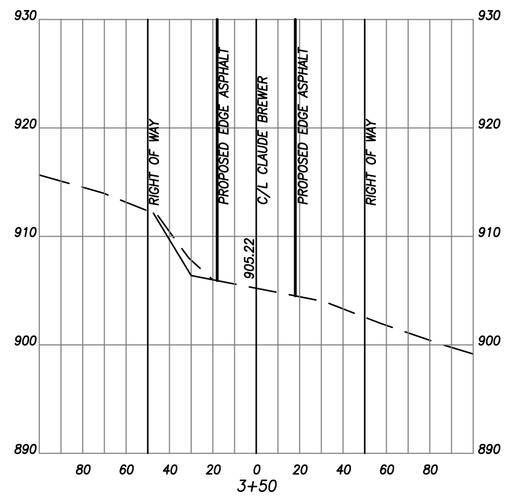
SCALE
1' = 20'

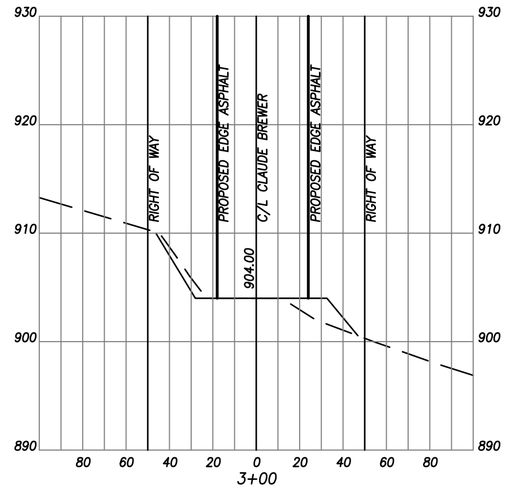
DATE
8/12/05

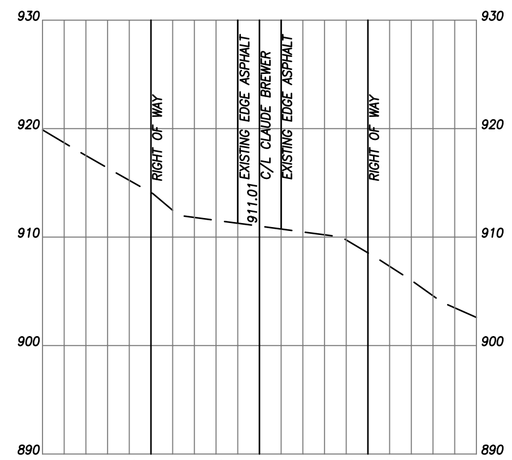
PROJECT NO.
03–243.03

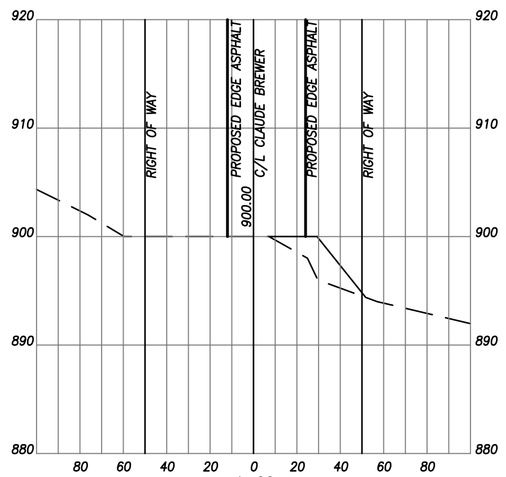
SECTION PROFILES ALONG CLAUDE BREWER ROAD

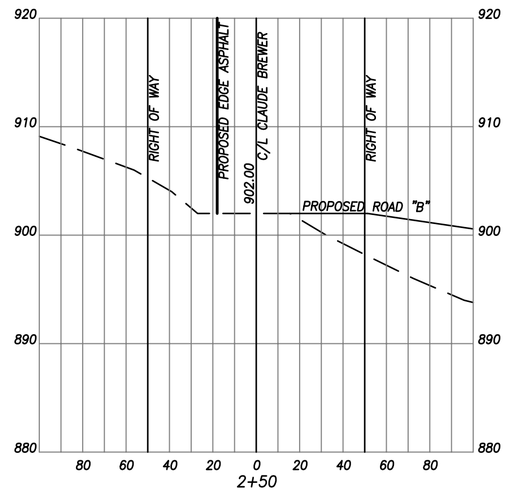


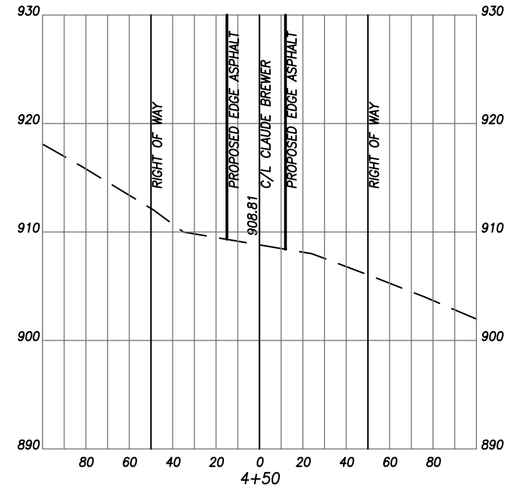


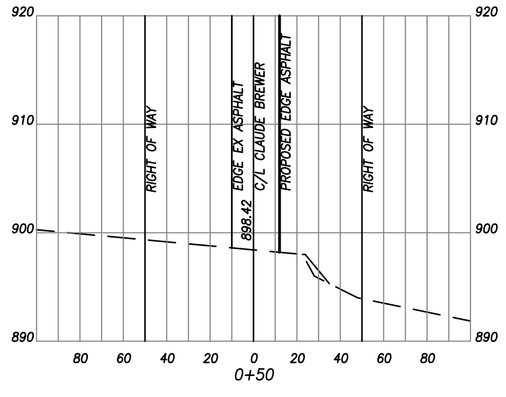


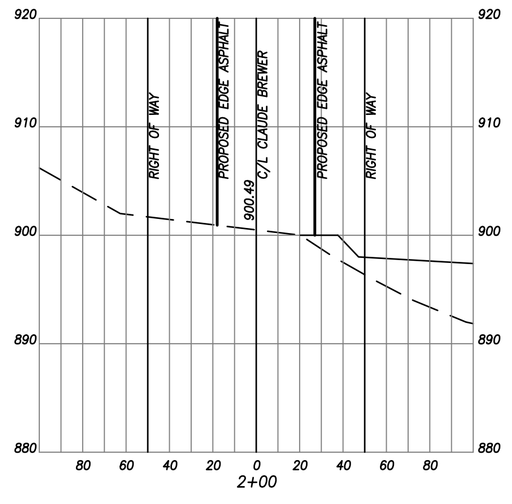


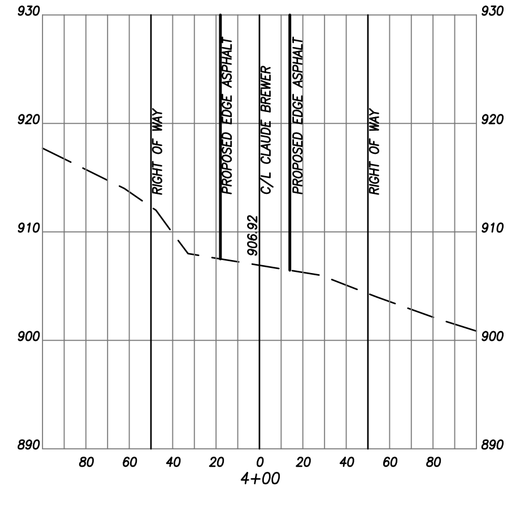


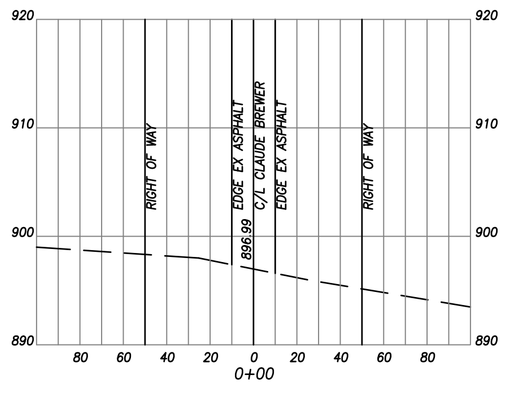












GRAPHIC SCALE

50 0 50 100 200

1 inch = 50 ft.

REVISIONS		
NO.	DATE	REMARKS
1	12/05	COMMENTS
2.	7/11	COMMENTS

SEAL

GEORGIA REGISTERED No. 18702 PROFESSIONAL ENGINEER PAUL S. BOYER

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CIVIL ENGINEERS & LAND SURVEYORS
604 ATLANTA HWY
GAINESVILLE, GEORGIA 30501
PHONE (770) 532 - 6492
FAX (770) 532 - 1995

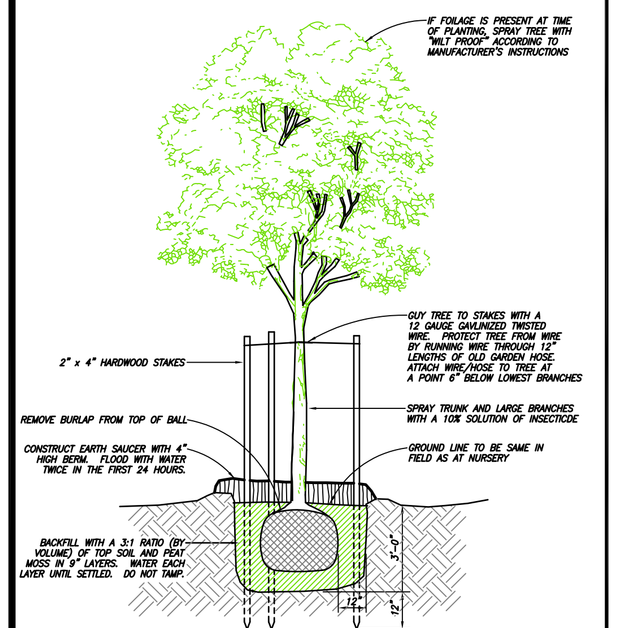
CLAUDE BREWER ROAD SECTION PROFILES:
FOR
NEW HORIZON PARTNERSHIP, LLC
CITY OF LOGANVILLE
WALTON COUNTY, GEORGIA

SHEET NUMBER
C37 54
of
03-243.03 ENTRANCE

SCALE
1' = 50'

DATE
8/12/05

PROJECT NO.
03-243.03



TREE PLANTING DETAIL

ACTIVE TREE PROTECTION – Type A

LEGEND·

- ⊙ I.P.F. – IRON PIN FOUND
- ⊙ C.T.F. – CRIMPED TOP PIN FOUND
- ⊙R.B.F. – REBAR PIN FOUND
- ⊙R.B.S. – REBAR PIN SET
- ⊙O.T.F. – OPEN TOP FOUND
- △ A.I.F. – ANGLE IRON FOUND
- ⊡C.M.F. – CONCRETE MONUMENT FOUND
- P/L – PROPERTY LINE
- R/W – RIGHT OF WAY
- N/F – NOW OR FORMERLY
- C/L – CENTER LINE
- L.L.L. – LAND LOT LINE
- ⊕F.H. – FIRE HYDRANT
- ⊗G.V. – GATE VALVE
- ⊠W.M. – WATER METER
- —W— – WATER MAIN
- D.I.P. – DUCTILE IRON PIPE
- PVC – POLYVINYL CHLORIDE PIPE
- ⊕P.P. – POWER POLE
- ⊕S.P. – SERVICE POLE
- ⊕T.P. – TELEPHONE POLE
- □P.B. – POWER TRANSFORMER BOX
- ⊞T.R. – TELEPHONE RISER
- —E— – ELECTRICAL LINE
- —T— – TELEPHONE CABLE
- —G— – GAS MAIN
- C.M.P. – CORRUGATED METAL PIPE
- B.C.C.M.P. – BITUMINOUS COATED CORRUGATED PIPE
- R.C.P. – REINFORCED CONCRETE PIPE
- C.B. – CATCH BASIN
- ⊗J.B. – JUNCTION BOX
- ⊗M.H. – STORM DRAIN MANHOLE
- ■W.I. – WEIR INLET
- E.P. – EDGE OF PAVEMENT
- B.C. – BACK OF CURB

STATE WATERS BUFFER:

A 25 FOOT UNDISTURBED VEGETATIVE BUFFER, ADJACENT TO ALL RUNNING STREAMS WILL BE LEFT AND MAINTAINED.

THIS SITE DOES CONTAIN STATE WATERS REQUIRING AN UNDISTURBED VEGETATIVE BUFFER.

Wetlands Certification:

The design professional whose seal appears herein certifies the following: (1) the National Wetlands Inventory Map has been consulted; (2) the appropriate plan sheet

☐ DOES ☑ DOES NOT

indicate wetlands as shown on the map; and (3) if wetlands are indicated the landowner or developer has been advised that land disturbance of protected wetlands shall not occur unless the appropriate Section 404 Permit or Letter of

FLOOD INFORMATION:

A PORTION OF THIS LOCATED WITHIN ZONE A, AREAS OF 100–YEAR FLOOD PLAIN AS PER F.I.R.M. FLOOD INSURANCE RATE MAP OF WALTON COUNTY, GEORGIA. COMMUNITY PANEL NO. 13297 C0060B EFFECTIVE DATE: 2/16/1990

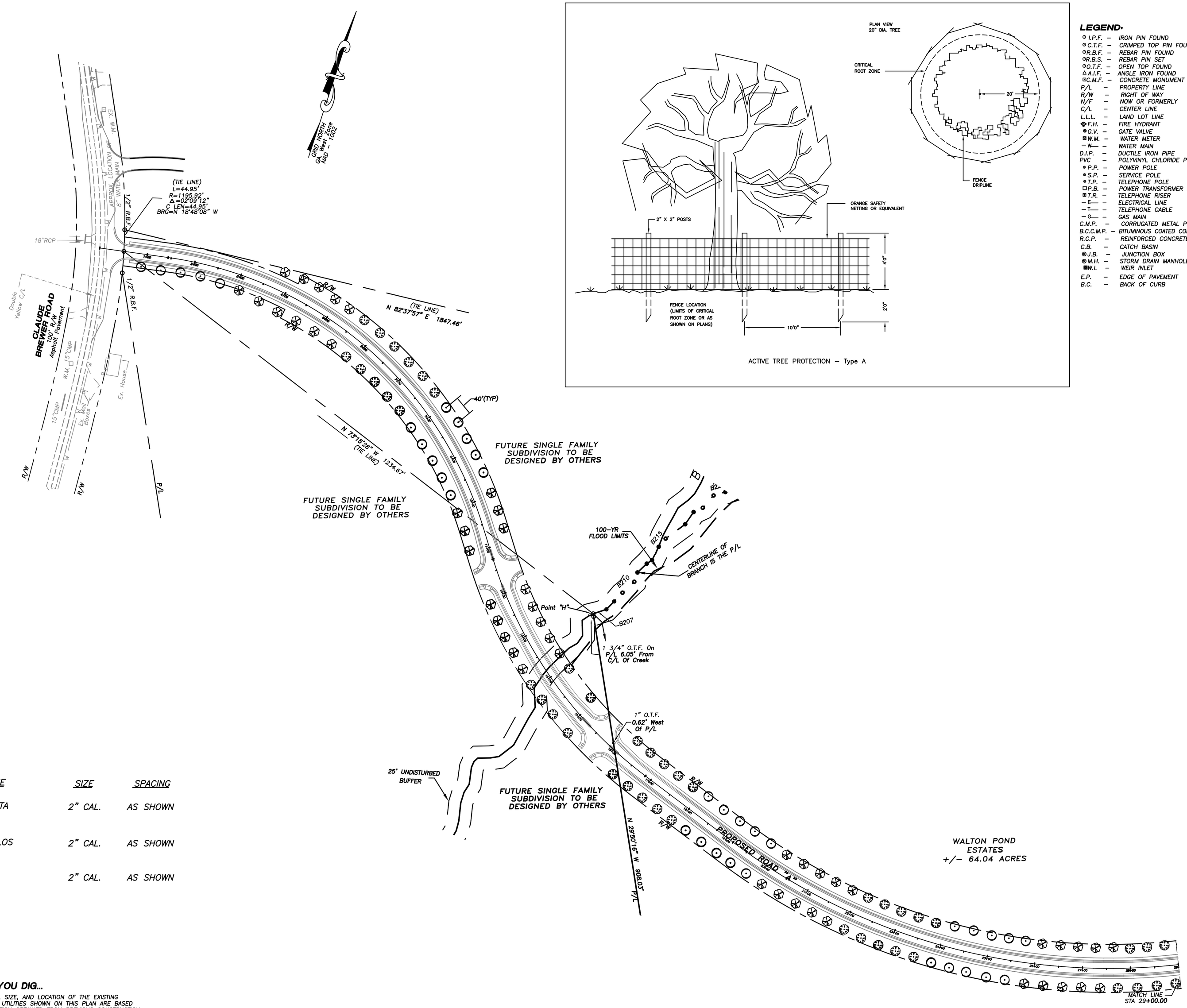
CONTOUR INFORMATION:

CONTOURS SHOWN HEREON WERE COMPILED BY JACK W. BERRY & ASSOCIATES, Inc., USING STEREOPHOTOGRAMMETRIC METHODS.
DATE OF PHOTOGRAPHY: APRIL 3, 2004
CONTOUR INTERVAL: 2 FEET
CONTOUR DATUM: MEAN–SEA LEVEL

OWNER and DEVELOPER:
NEW HORIZON PARTNERSHIP, LLC
2857 BRIDGEVIEW DRIVE
GAINESVILLE, GEORGIA 30507
(24 Hour Contact)
MR. DAVID DERUSHA
PHONE: 678–410–1569

LEGEND

SYMBOL	QUANTITY	COMMON NAME	BOTANICAL NAME	SIZE	SPACING
	87	SAW LEAF ZELKOVA	ZELKOVA SERRATA	2" CAL.	AS SHOWN
	77	WILLOW OAK	QUERCUS PHELLOS	2" CAL.	AS SHOWN
	75	RED MAPLE	ACER RUBRUM	2" CAL.	AS SHOWN



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100' 0 100' 200' 300'
GRAPHIC SCALE – 1 INCH = 100 FEET

BEFORE YOU DIG...

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REVISIONS:

DATE	COMMENTS
12/05	ADDRESS COMMENTS
7/11/06	ADDRESS COMMENTS

SEAL

GEORGIA REGISTERED No. 15702 PROFESSIONAL ENGINEER PAUL S. BOYER

GEORGIA REGISTERED No. 2647 LAND SURVEYOR CHRIS W. PATTON

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LAND SURVEYORS & ENGINEERS
909 ATLANTA HIGHWAY
GAINESVILLE, GEORGIA 30501
(1877) 80 248 6492
PHONE (770) 532 – 1995
FAX (770) 532 – 1995

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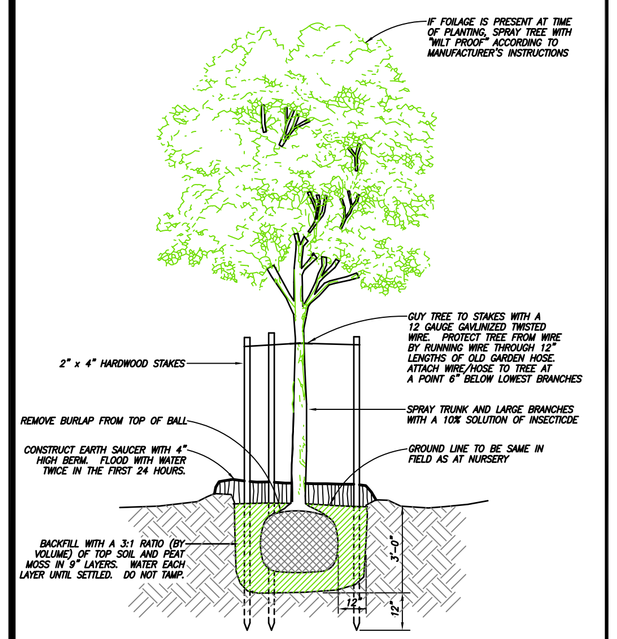
LANDSCAPE PLAN:
FOR
NEW HORIZON PARTNERSHIP, LLC
CITY OF LOGANVILLE
WALTON COUNTY, GEORGIA

SHEET NUMBER
C38 OF 54
FILE NAME: 03–243.03 WATER

SCALE
1" = 100'

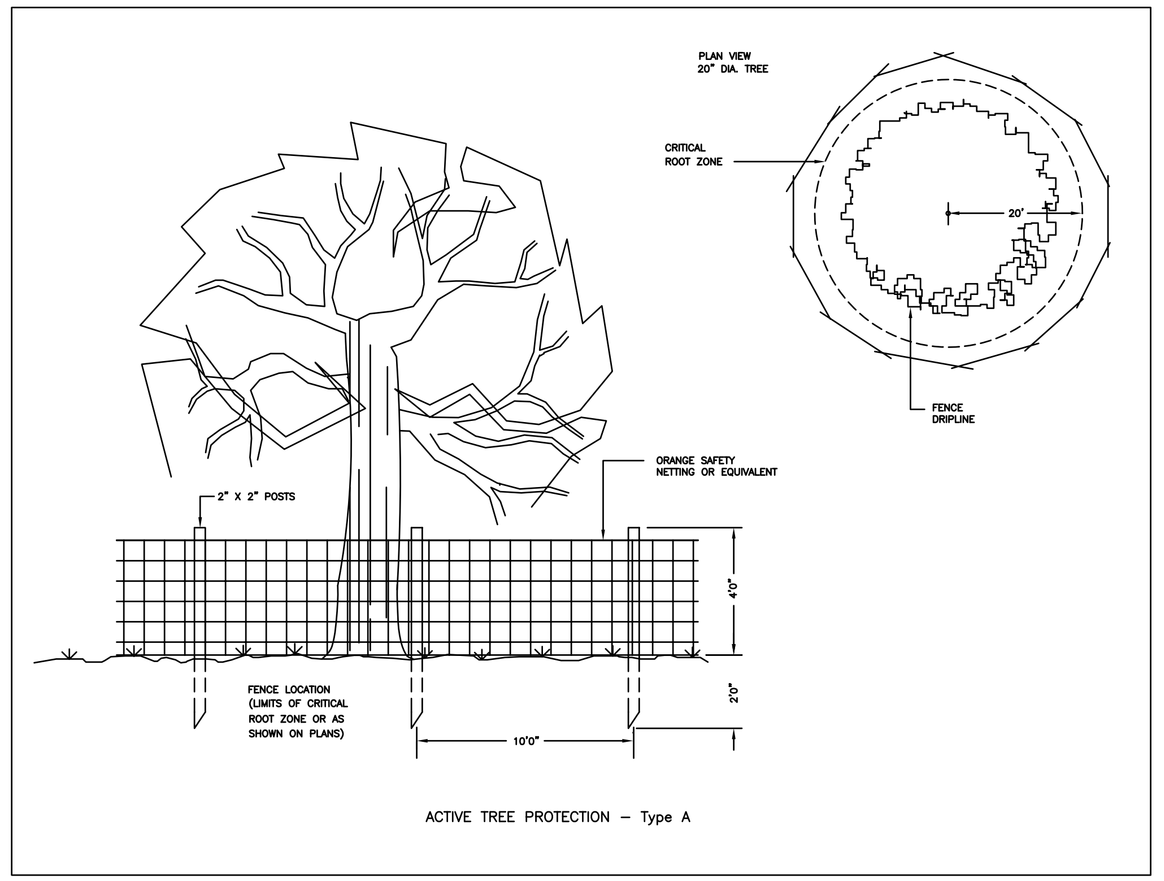
DATE
8/12/05

PROJECT NO.
03–243.03



TREE PLANTING DETAIL

GRID NORTH
Ga. West 1002
NAD 1927



ACTIVE TREE PROTECTION – Type A

LEGEND:

⊙ I.P.F.	–	IRON PIN FOUND
⊙ C.T.F.	–	CRIMPED TOP PIN FOUND
⊙ R.B.F.	–	REBAR PIN FOUND
⊙ R.B.S.	–	REBAR PIN SET
⊙ O.T.F.	–	OPEN TOP FOUND
△ A.I.F.	–	ANGLE IRON FOUND
⊡ C.M.F.	–	CONCRETE MONUMENT FOUND
P/L	–	PROPERTY LINE
R/W	–	RIGHT OF WAY
N/F	–	NOW OR FORMERLY
C/L	–	CENTER LINE
L.L.L.	–	LAND LOT LINE
F.H.	–	FIRE HYDRANT
G.V.	–	GATE VALVE
W.M.	–	WATER METER
– W –	–	WATER MAIN
D.I.P.	–	DUCTILE IRON PIPE
PVC	–	POLYVINYL CHLORIDE PIPE
P.P.	–	POWER POLE
S.P.	–	SERVICE POLE
T.P.	–	TELEPHONE POLE
P.B.	–	POWER TRANSFORMER BOX
T.R.	–	TELEPHONE RISER
– E –	–	ELECTRICAL LINE
– T –	–	TELEPHONE CABLE
– G –	–	GAS MAIN
C.M.P.	–	CORRUGATED METAL PIPE
B.C.C.M.P.	–	BITUMINOUS COATED CORRUGATED PIPE
R.C.P.	–	REINFORCED CONCRETE PIPE
C.B.	–	CATCH BASIN
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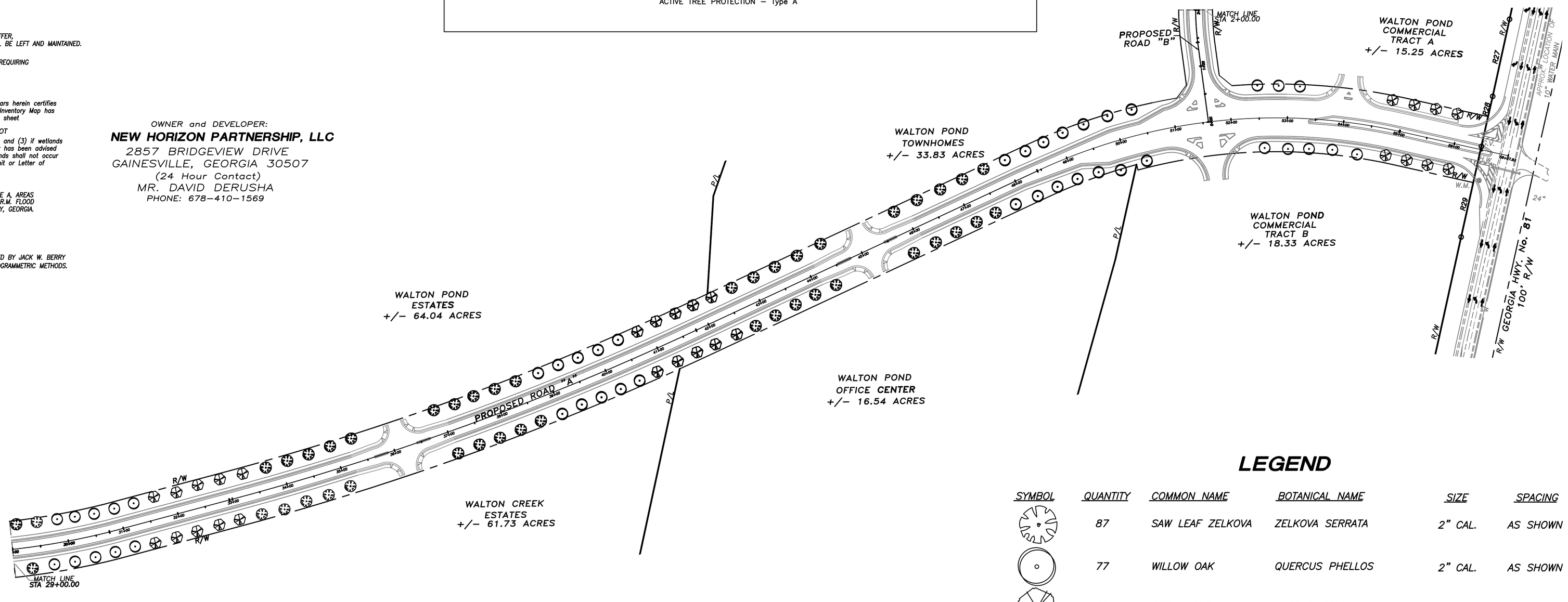
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CONTOUR INFORMATION:

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DATE OF PHOTOGRAPHY: APRIL 3, 2004
CONTOUR INTERVAL: 2 FEET
CONTOUR DATUM: MEAN-SEA LEVEL

OWNER and DEVELOPER:
NEW HORIZON PARTNERSHIP, LLC
2857 BRIDGEVIEW DRIVE
GAINESVILLE, GEORGIA 30507
(24 Hour Contact)
MR. DAVID DERUSHA
PHONE: 678-410-1569



LEGEND

SYMBOL	QUANTITY	COMMON NAME	BOTANICAL NAME	SIZE	SPACING
	87	SAW LEAF ZELKOVA	ZELKOVA SERRATA	2" CAL.	AS SHOWN
	77	WILLOW OAK	QUERCUS PHELLOS	2" CAL.	AS SHOWN
	75	RED MAPLE	ACER RUBRUM	2" CAL.	AS SHOWN

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100' 0 100' 200' 300'
GRAPHIC SCALE – 1 INCH = 100 FEET

REVISIONS:

DATE	COMMENTS
12/05	ADDRESS COMMENTS
7/11/06	ADDRESS COMMENTS

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GEORGIA REGISTERED No. 2647 LAND SURVEYOR CHRIS M. PATTON

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TOLL FREE (877) 80 532 – 6492
PHONE (770) 532 – 1995
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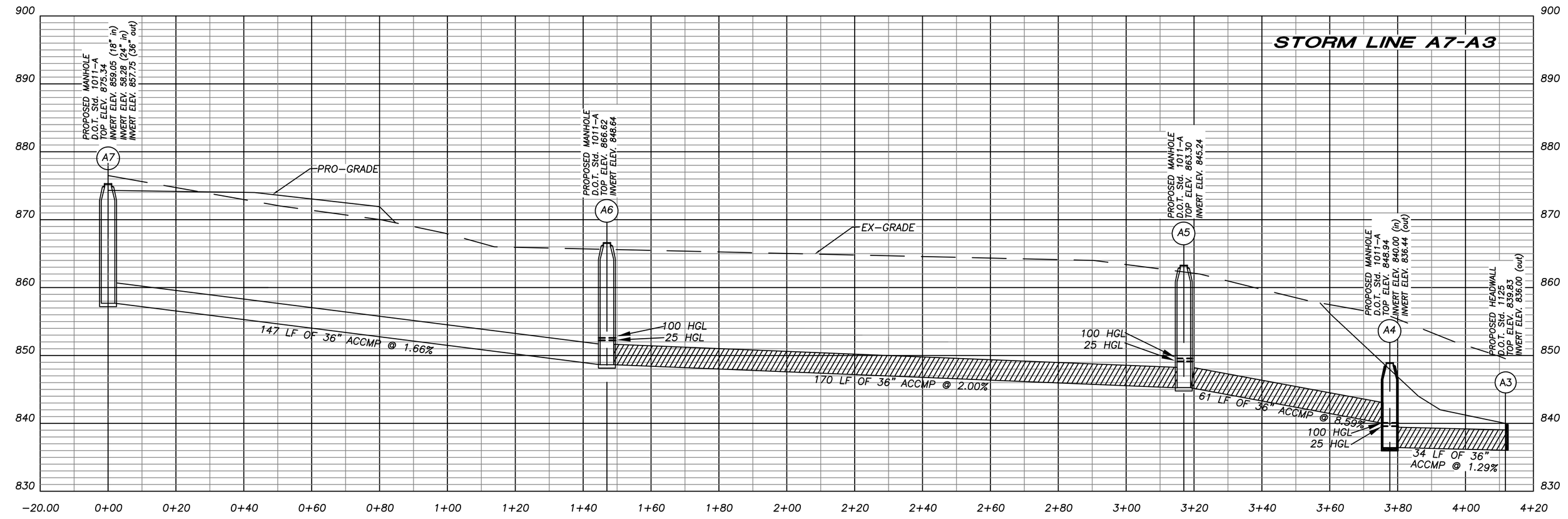
LANDSCAPE PLAN:
FOR
NEW HORIZON PARTNERSHIP, LLC
CITY OF LOGANVILLE
WALTON COUNTY, GEORGIA

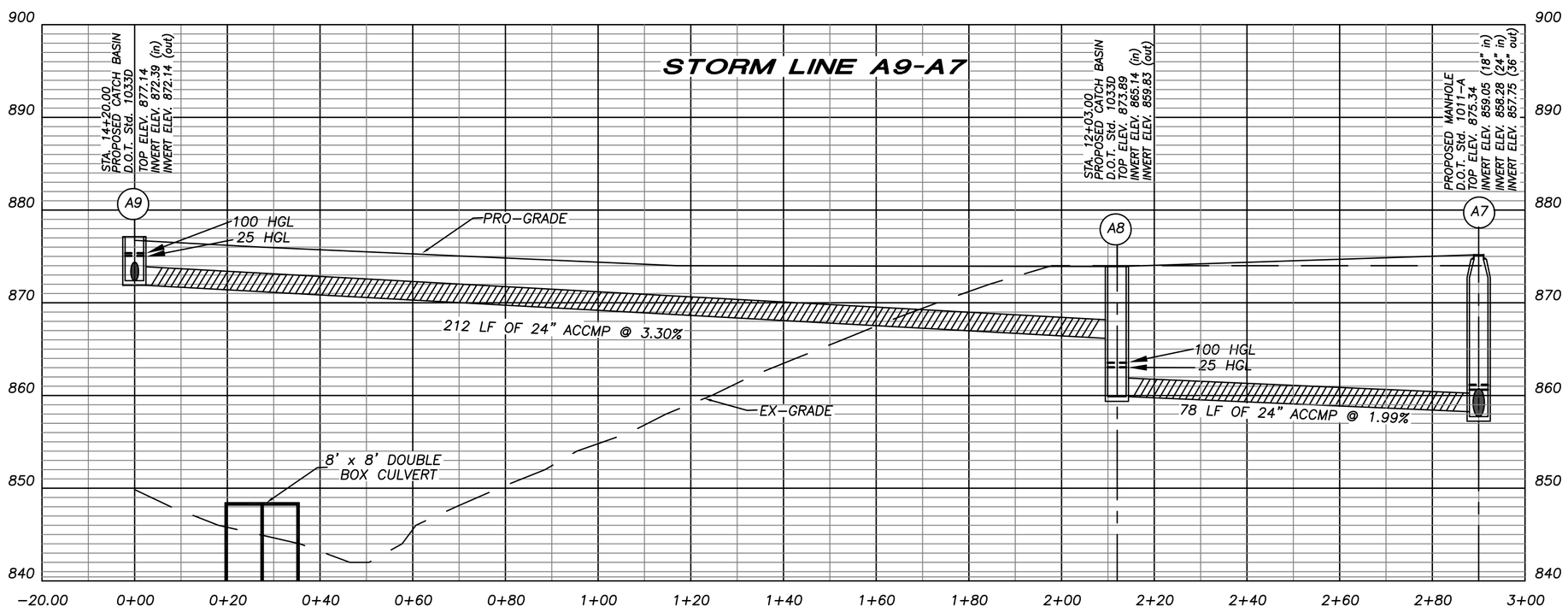
SHEET NUMBER
C39 OF 54
FILE NAME: 03-243.03 WATER

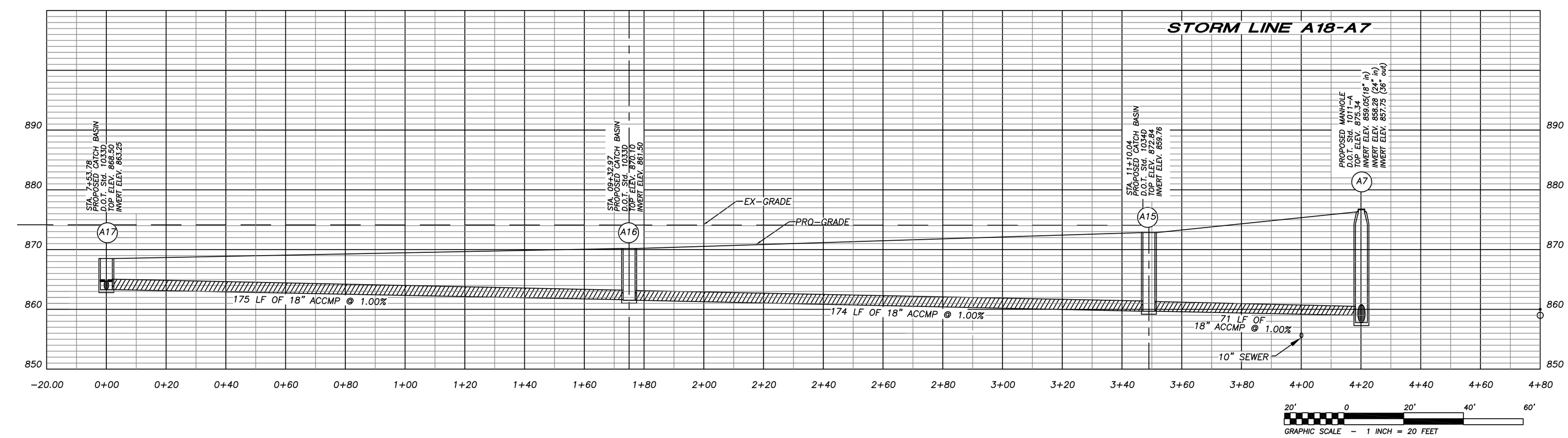
SCALE
1" = 100'

DATE
8/12/05

PROJECT NO.
03-243.03







SOIL COMPACTION REQUIRED TO BE 95% MIN

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REVISIONS:

DATE	COMMENTS
12/9/05	PER COMMENTS
7/11/06	PER COMMENTS
12/14/06	REVISED RUN A19-A7
1/3/07	REVISED RUN A19-A7

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GAINESVILLE, GEORGIA 30501
(677) 307 − 2481
PHONE (770) 532 − 1492
FAX (770) 532 − 1995

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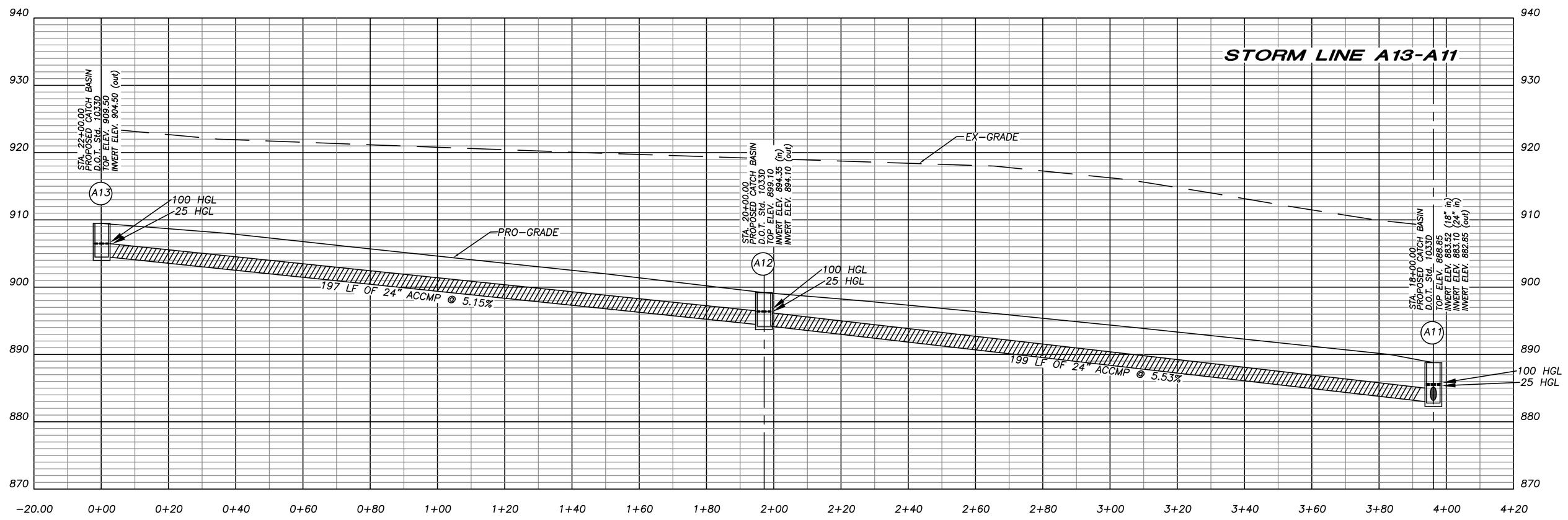
STORM DRAIN PROFILES FOR
WALTON POND
NEW HORIZON PARTNERSHIP, LLC
LOCATED IN:
CITY OF LOGANVILLE
WALTON COUNTY, GEORGIA

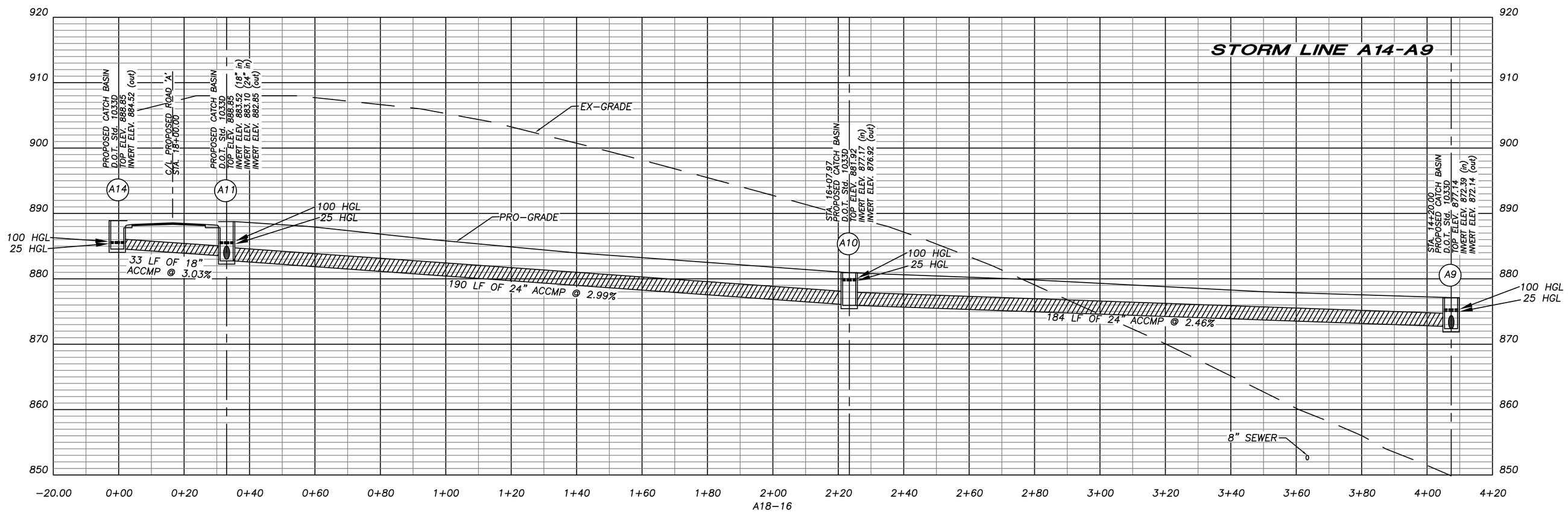
SHEET NUMBER
C40 54
OF
03−243.03 SD PROFILES

SCALE
1" = 20'

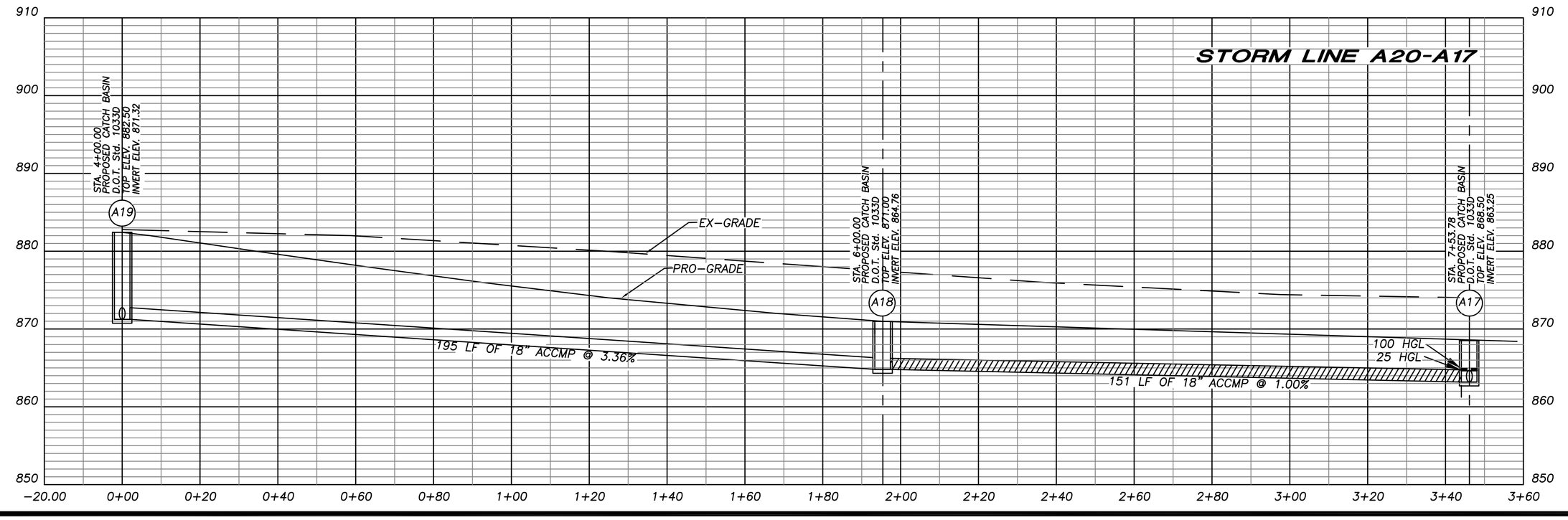
DATE
8/12/05

PROJECT NO.
03−243.03





A18-16



SOIL COMPACTION REQUIRED TO BE 95% MIN

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20' 0 20' 40' 60'
GRAPHIC SCALE – 1 INCH = 20 FEET

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REVISIONS:

DATE	COMMENTS
12/5/05	PER COMMENTS
7/11/06	PER COMMENTS
12/14/06	REVISED RUN A19-A7
1/3/07	REVISED RUN A19-A7

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PHONE (770) 532 – 1492
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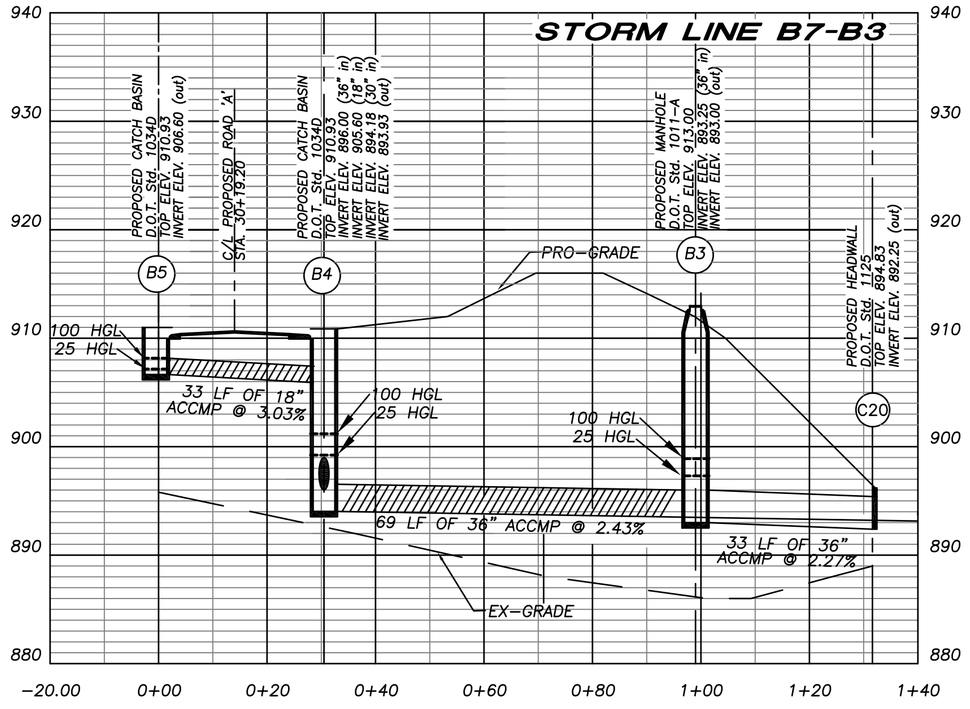
STORM DRAIN PROFILES FOR
WALTON POND
NEW HORIZON PARTNERSHIP, LLC
LOCATED IN:
CITY OF LOGANVILLE
WALTON COUNTY, GEORGIA

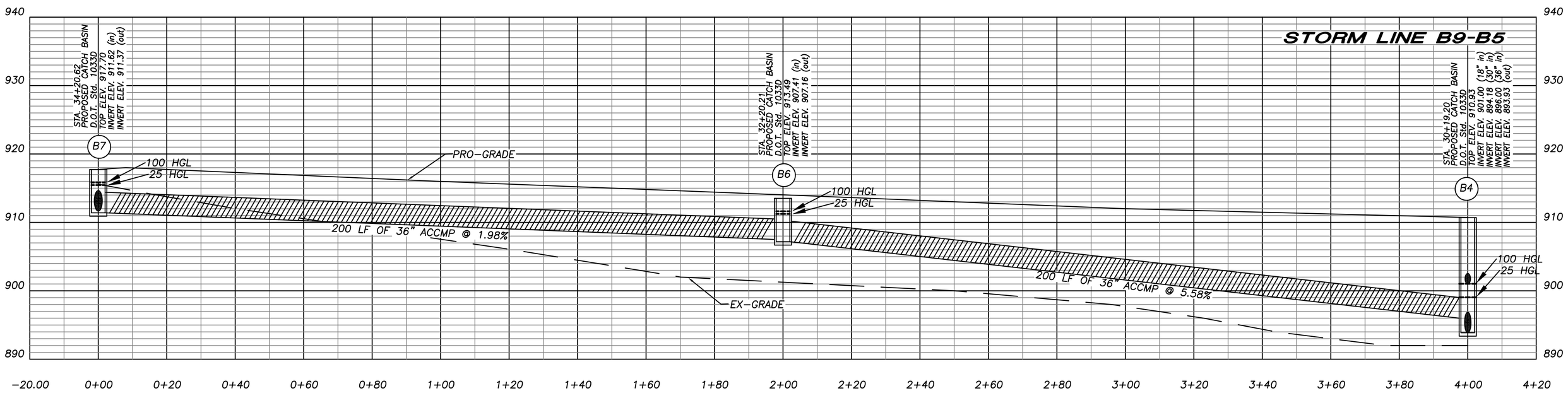
SHEET NUMBER
C41 54
OF
03-243.03 SD PROFILES

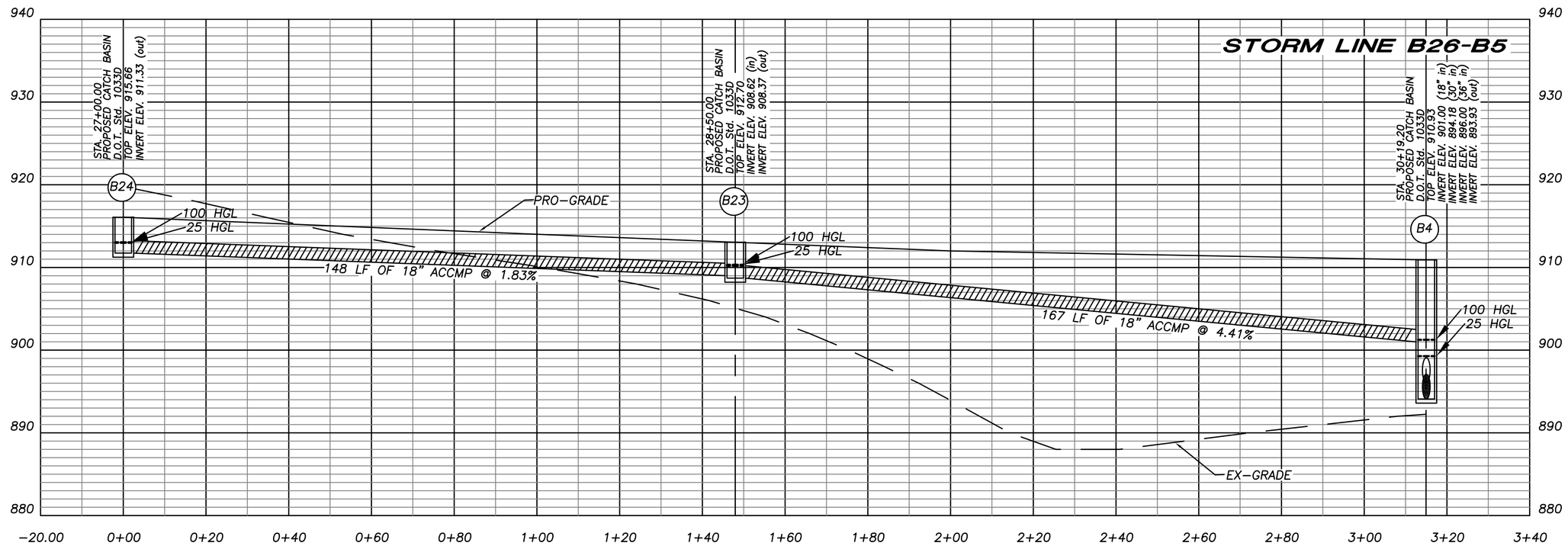
SCALE
1" = 20'

DATE
8/12/05

PROJECT NO.
03-243.03







SOIL COMPACTION REQUIRED TO BE 95% MIN

BEFORE YOU DIG...

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20' 0 20' 40' 60'
GRAPHIC SCALE – 1 INCH = 20 FEET

- NOT FOR FINAL RECORDING -

REVISIONS:

DATE	COMMENTS
12/5/05	PER COMMENTS
7/11/06	PER COMMENTS

GEORGIA REGISTERED No. 18702 PROFESSIONAL ENGINEER PAUL S. BOYLE

GEORGIA REGISTERED No. 2641 LAND SURVEYOR CHRIS M. PATTON

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CIVIL CONSULTANTS
929 ATLANTA HIGHWAY
CAMMING, GEORGIA 30501
(877) 80 248 6492
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FAX (770) 532 – 1995

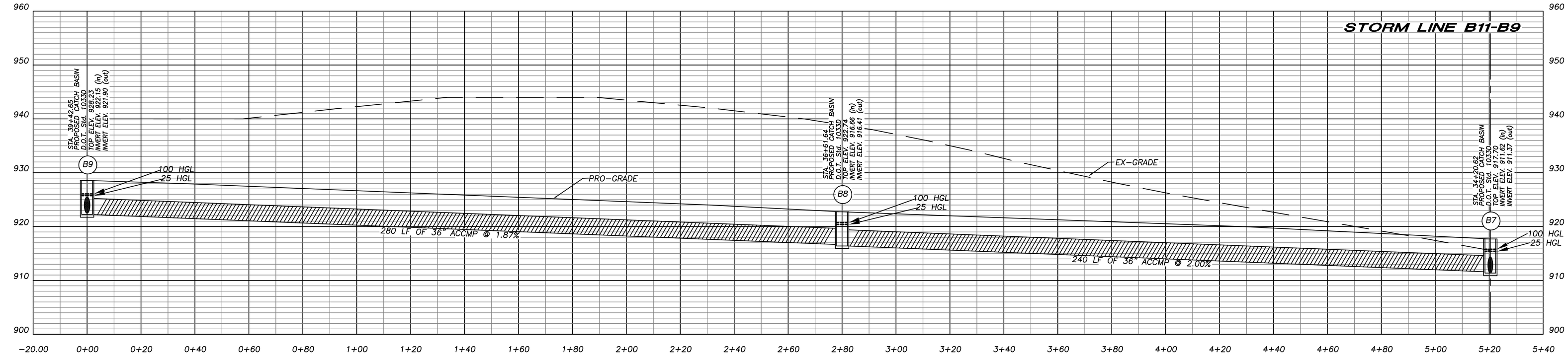
STORM DRAIN PROFILES FOR
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LOCATED IN:
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WALTON COUNTY, GEORGIA

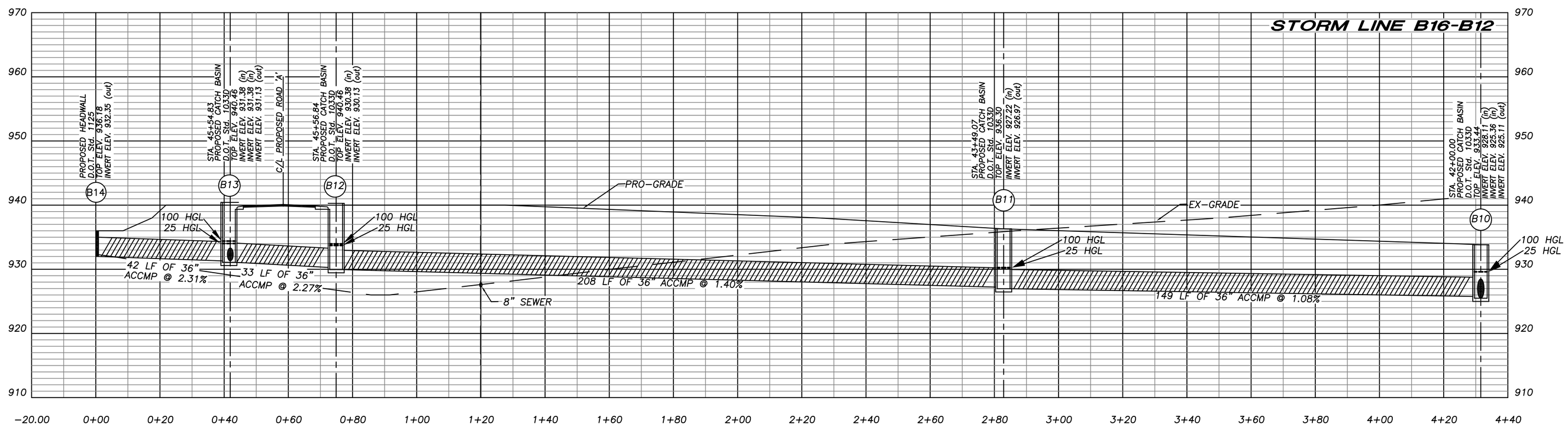
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OF
03-243.03 SD PROFILES

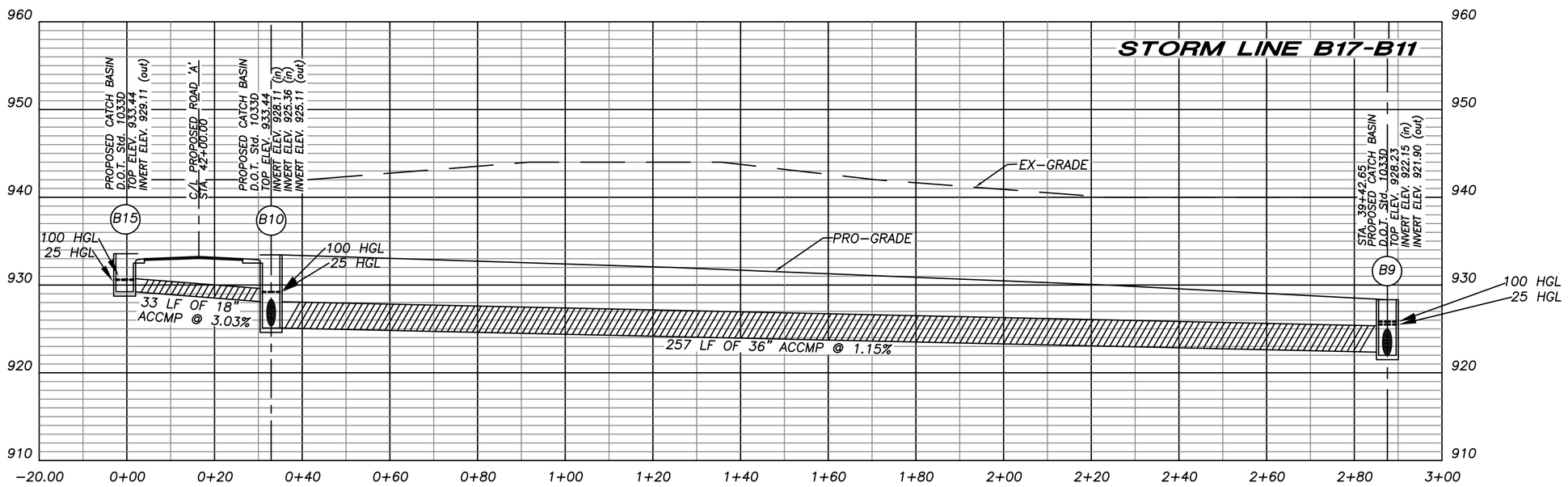
SCALE
1" = 20'

DATE
8/12/05

PROJECT NO.
03-243.03







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CAUMING, GEORGIA 30501
(877) 80 PATTON
PHONE (770) 532 – 6492
FAX (770) 532 – 1995

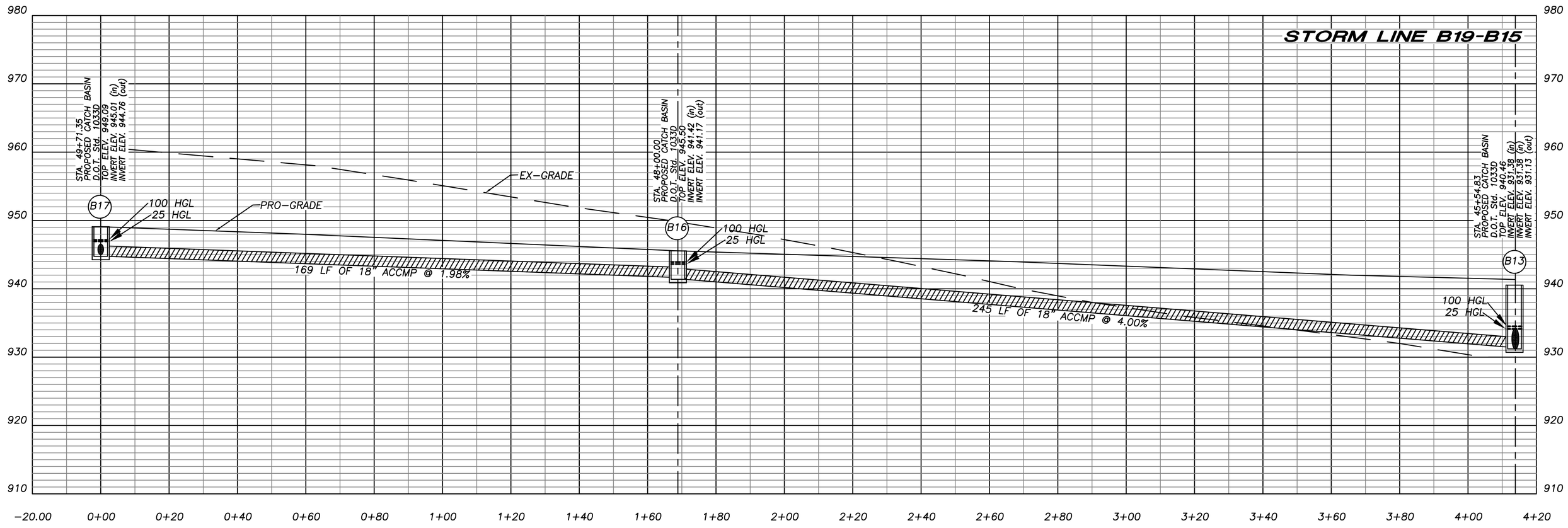
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LOCATED IN:
CITY OF LOGANVILLE
WALTON COUNTY, GEORGIA

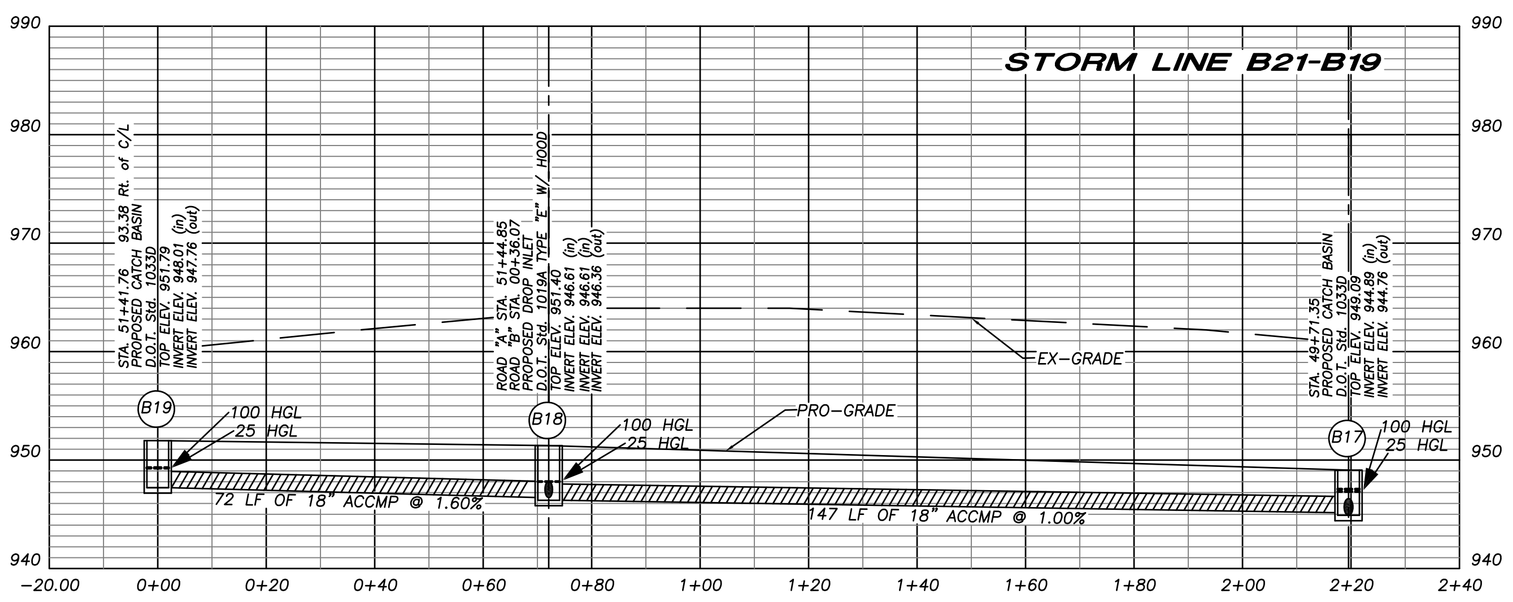
SHEET NUMBER
C43 54
OF
03–243.03 SD PROFILES

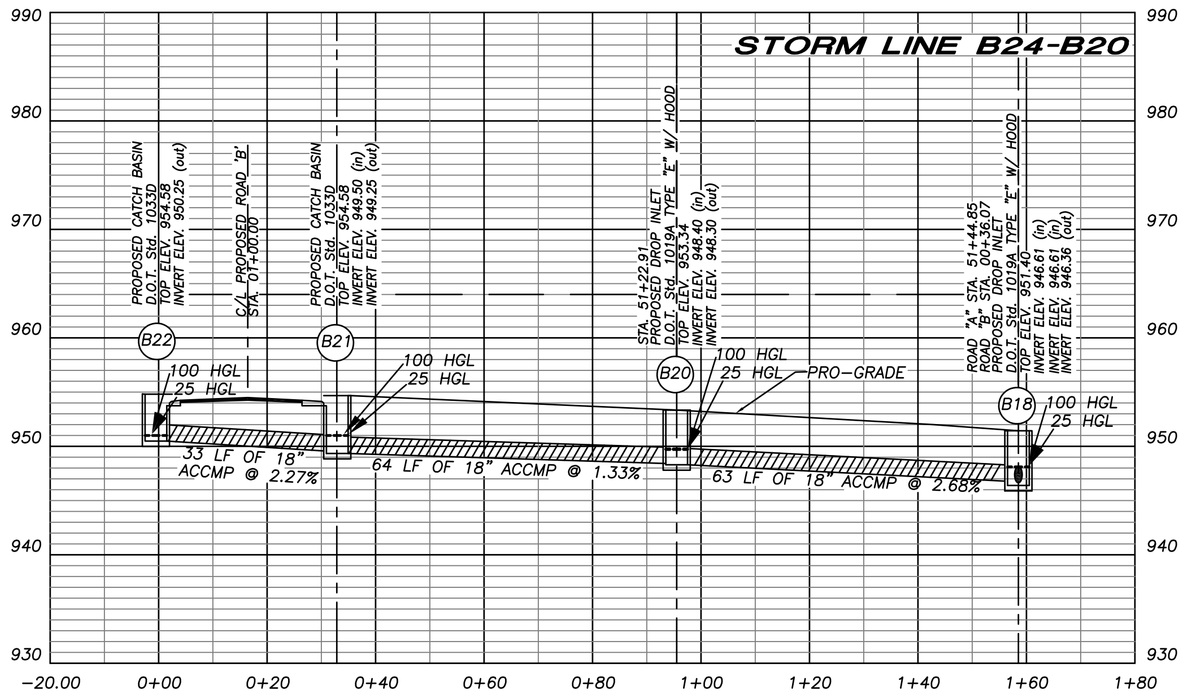
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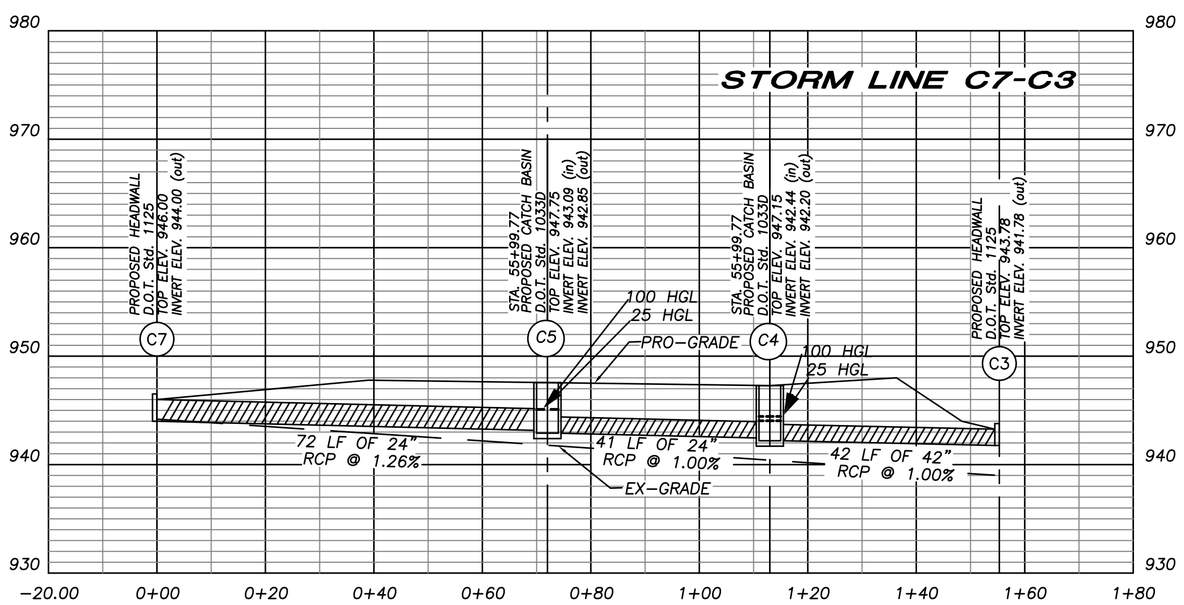
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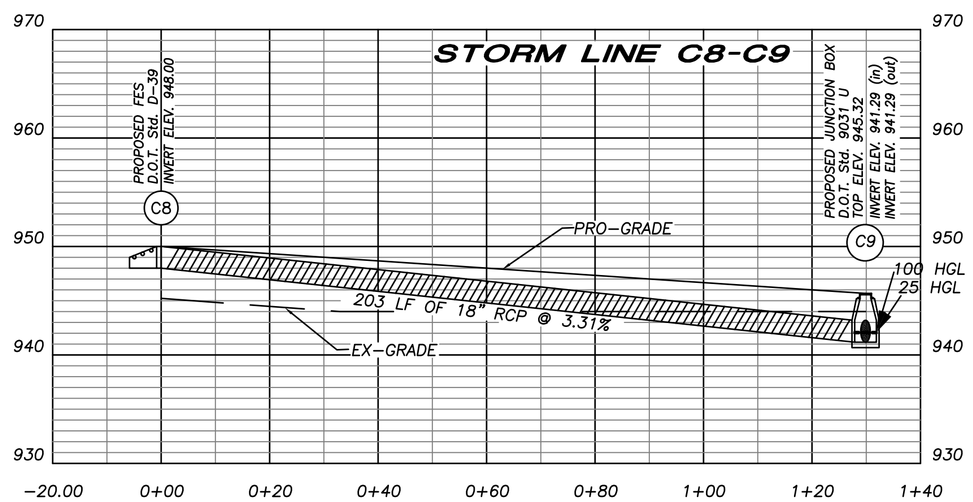
PROJECT NO.
03–243.03











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DATE	COMMENTS
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GEORGIA REGISTERED No. 2647 LAND SURVEYOR CHRIS M. PATTON

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(1877) 80 248 1481
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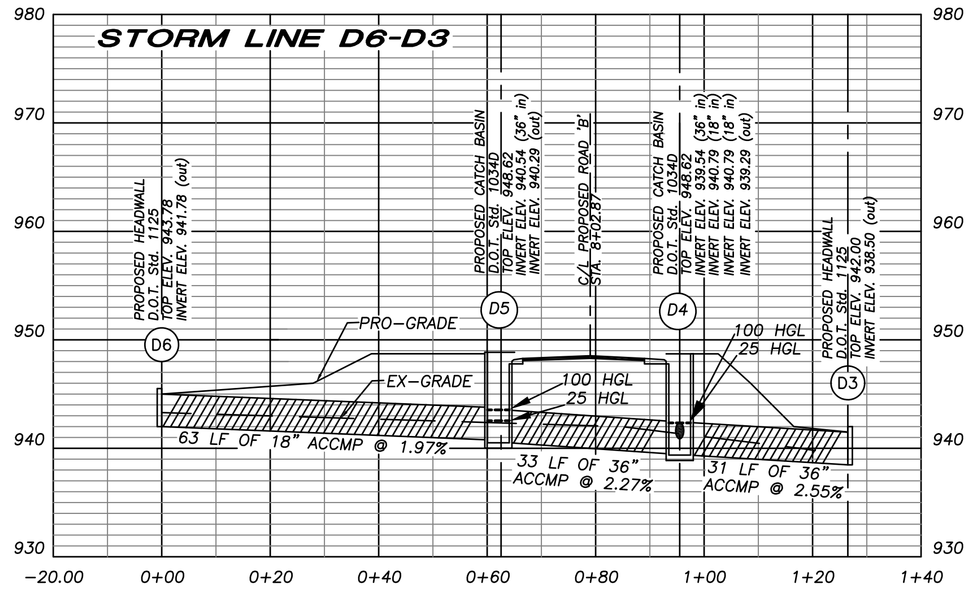
STORM DRAIN PROFILES FOR
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CITY OF LOGANVILLE
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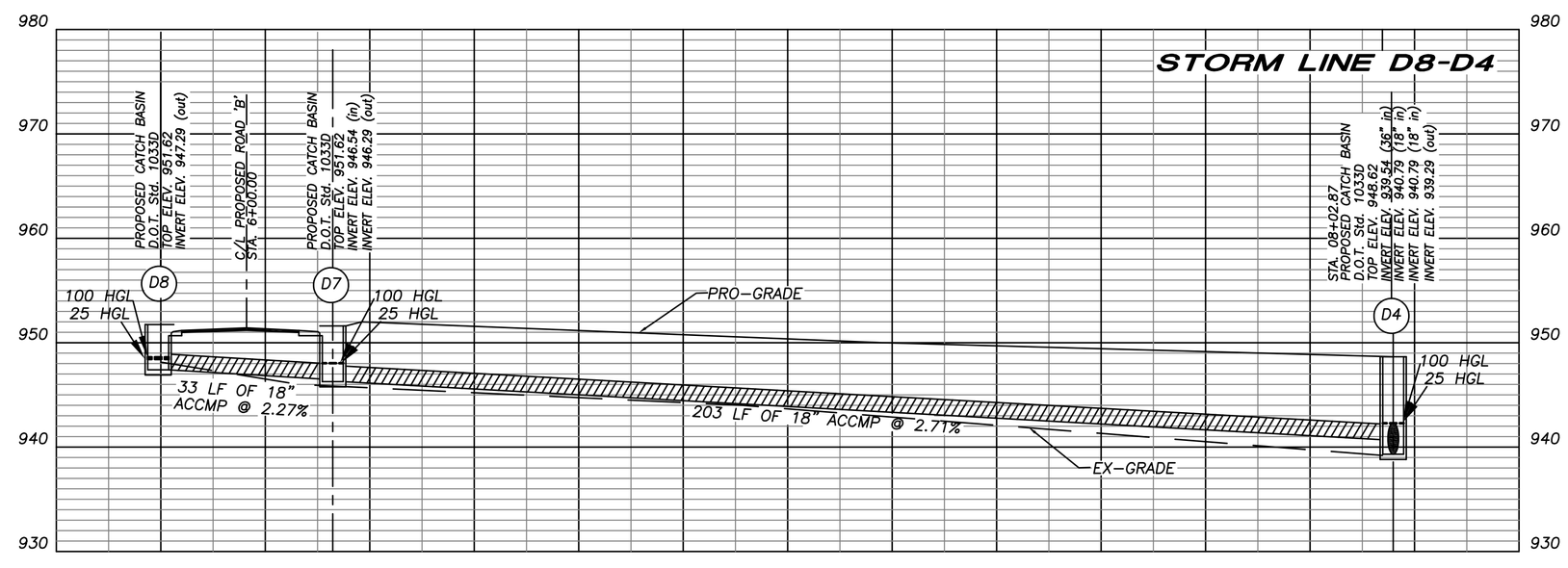
SHEET NUMBER
C44 54
OF
03-243.03 SD PROFILES

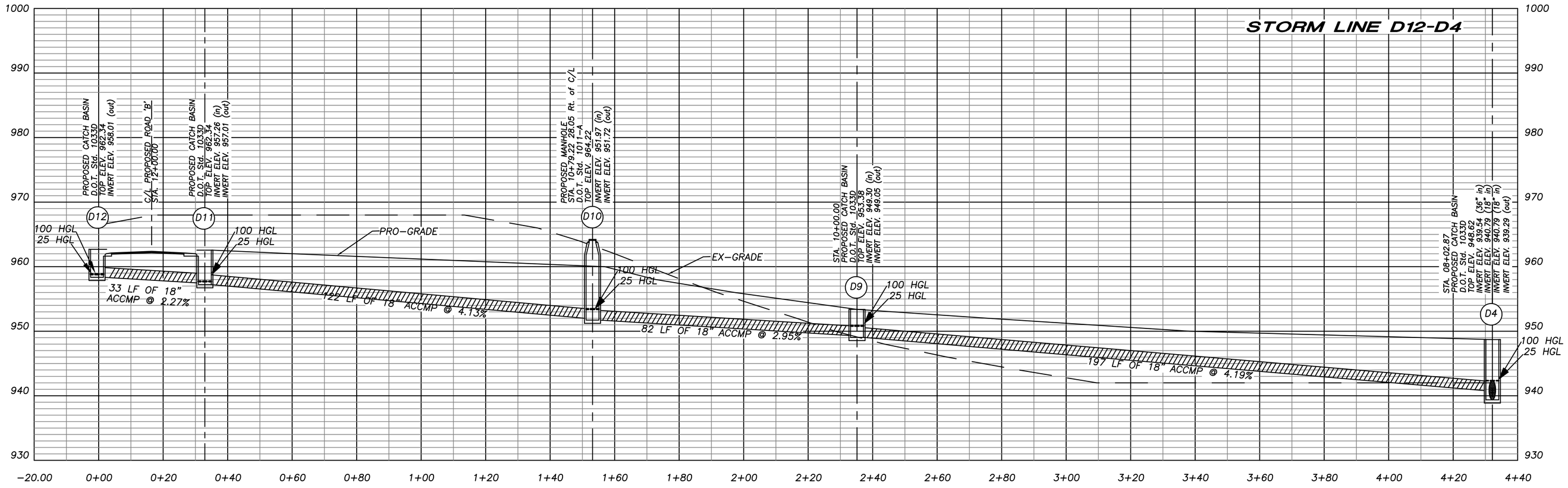
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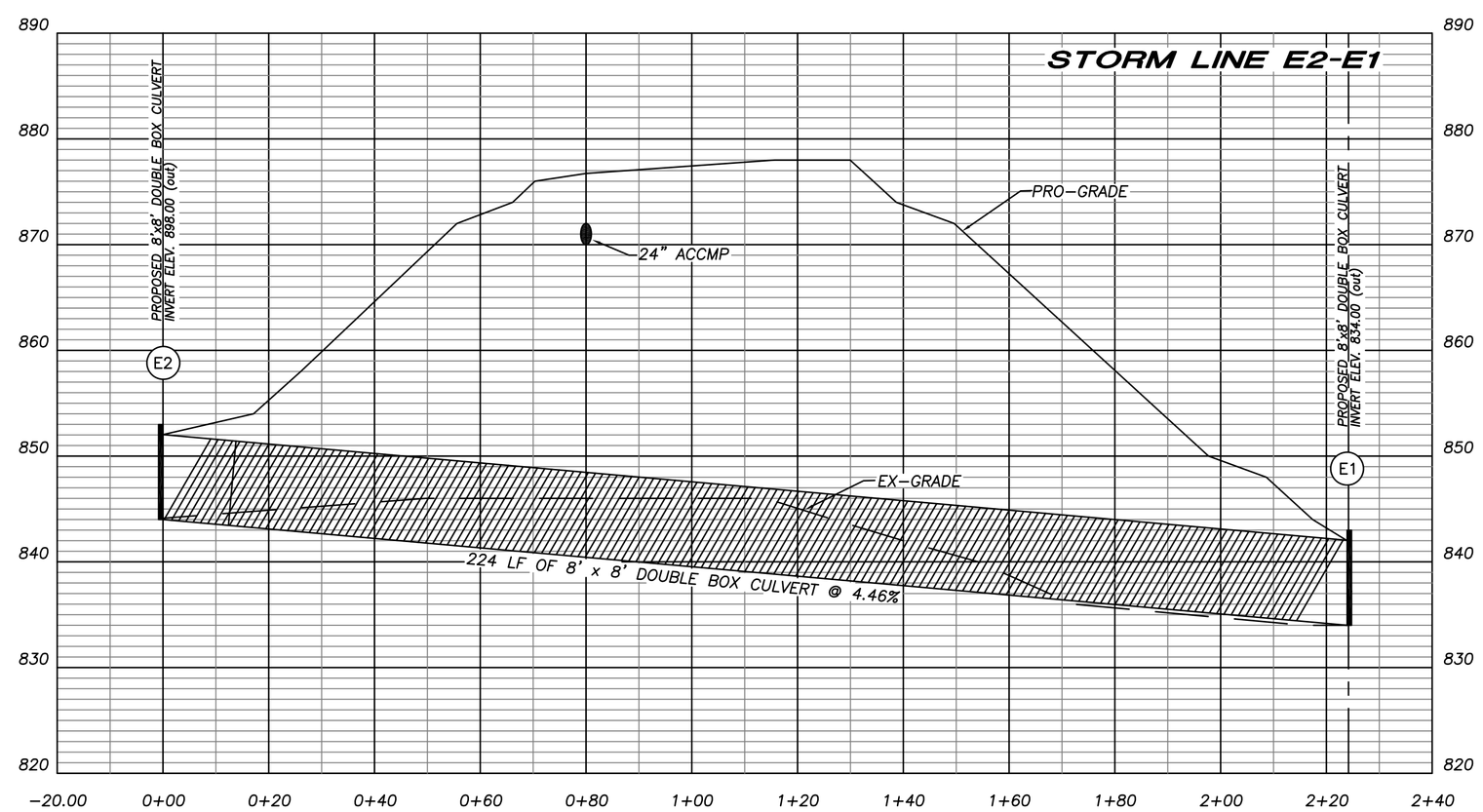
DATE
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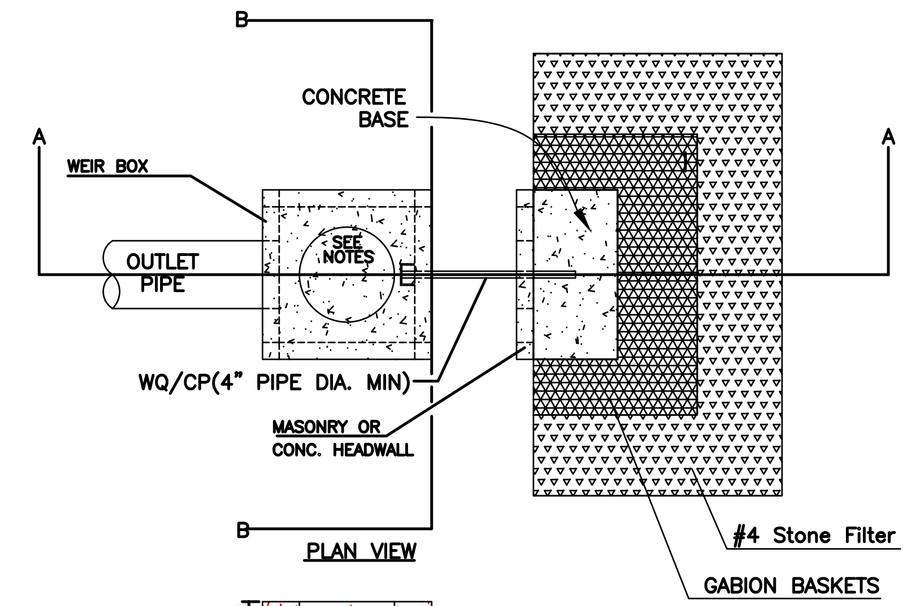
STORM DRAIN PROFILES FOR
WALTON POND
NEW HORIZON PARTNERSHIP, LLC
LOCATED IN:
CITY OF LOGANVILLE
WALTON COUNTY, GEORGIA

SHEET NUMBER
C45 54
OF
03–243.03 SD PROFILES

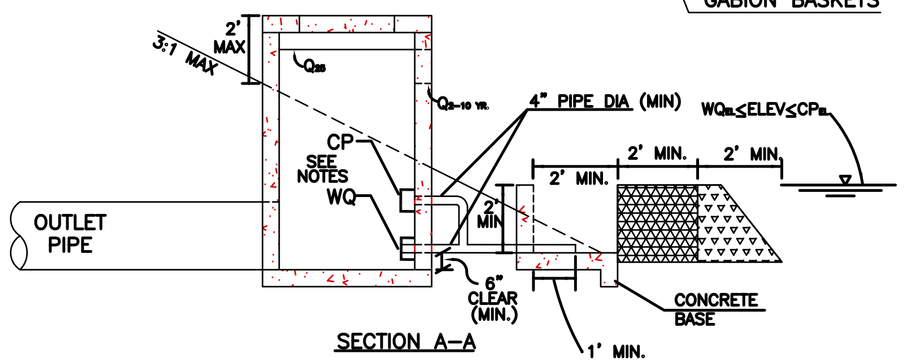
SCALE
1" = 20'

DATE
8/12/05

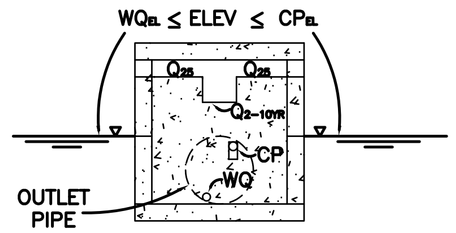
PROJECT NO.
03–243.03



PLAN VIEW



SECTION A–A



SECTION B–B

NOTES:

1.) WEIR CONFIGURATION SHOWN FOR CONCEPTUAL PURPOSES ONLY
2.) THREADED END CAP WITH ORIFICE REQ'D FOR ORIFICE DIA. < 4".
3.) REFER TO GC STD. DRAWING 629 FOR ORIFICE END–CAPS.
4.) REFER TO GC STD. DRAWING 611 FOR MANHOLE LID.
5.) STONE FILTER SHALL BE #4 STONE OR SMALLER.

TOP OF DAM = _____ FT

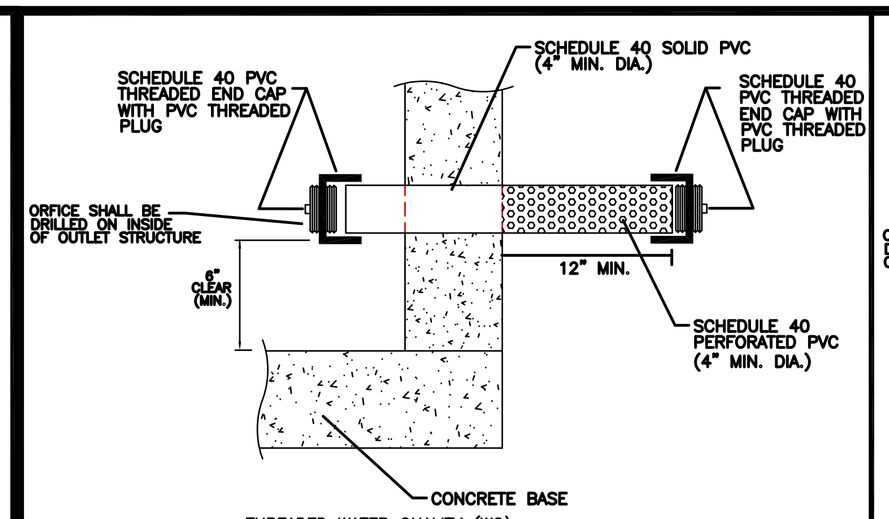
EMER. SPILLWAY = _____ FT

EVENT	ORIFICE/WEIR INV ELEV.	ORIFICE DIA. (IN)	WEIR LEN. (FT)	VOL. (CF)	WSEL
WQ					
CP					
2					
5					
10					
25					
100					

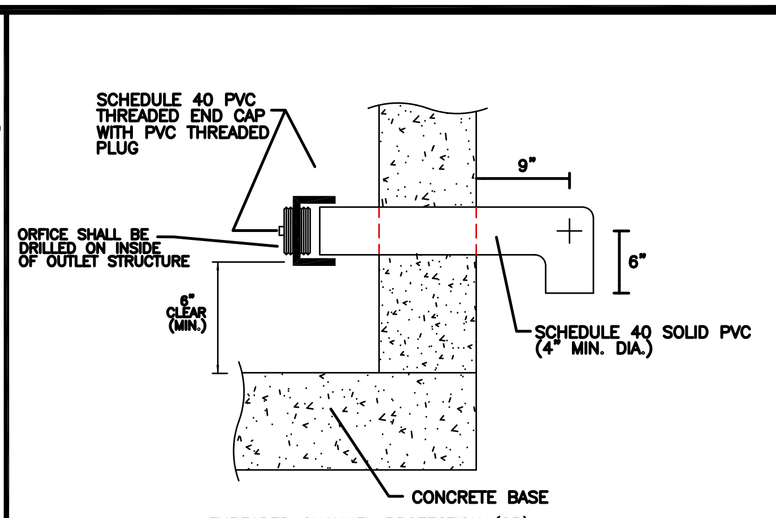
DEPARTMENT OF PLANNING & DEVELOPMENT
STANDARD DRAWING

OUTLET CONTROL STRUCTURE WITH GABION FILTER

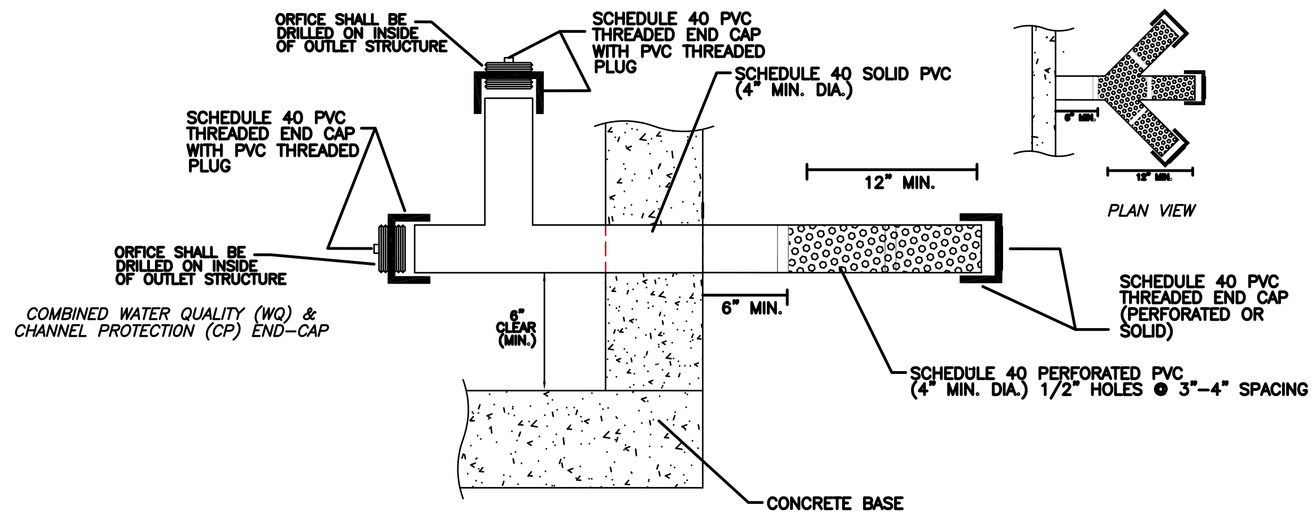
DATE: NOVEMBER 2002 SHEET: 616



THREADED WATER QUALITY (WQ) ORIFICE END–CAP



THREADED CHANNEL PROTECTION (CP) ORIFICE END–CAP



COMBINED WATER QUALITY (WQ) & CHANNEL PROTECTION (CP) END–CAP

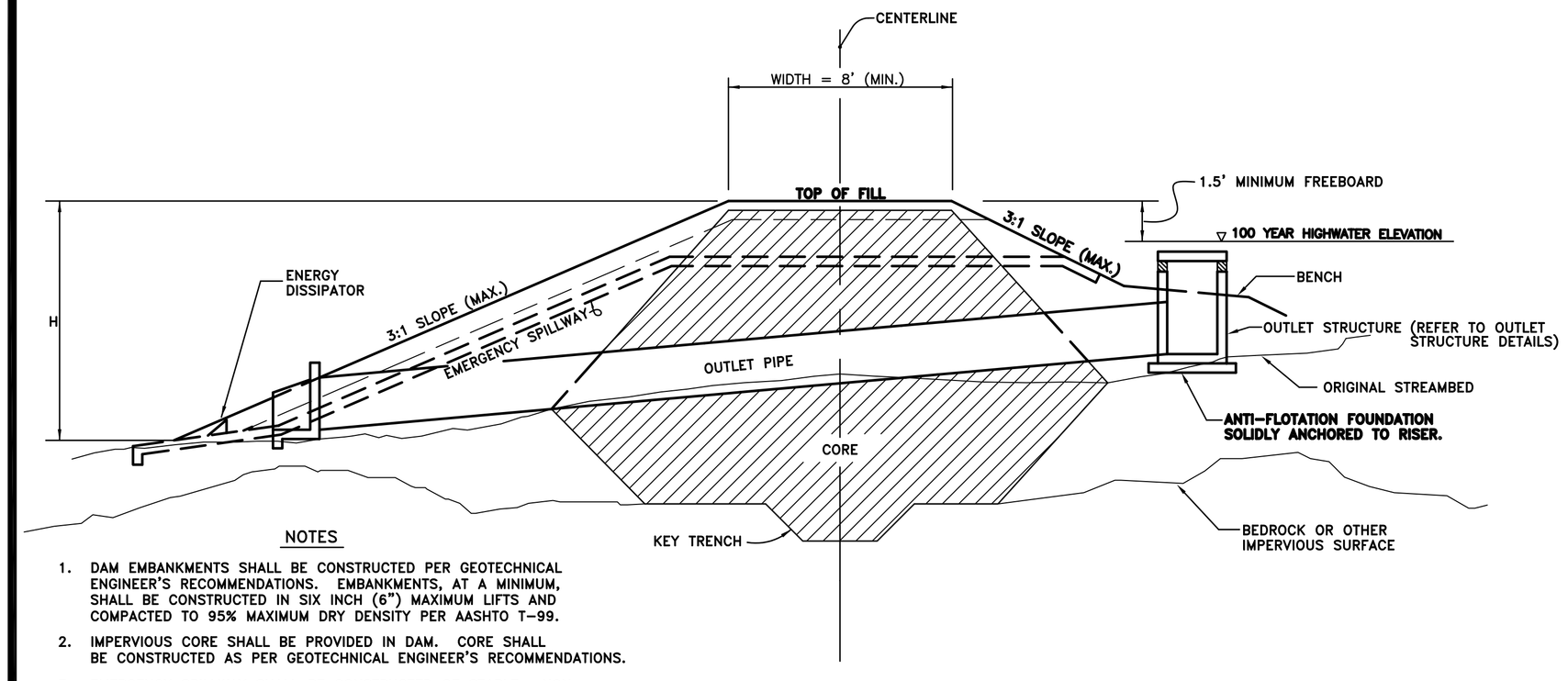
PLAN VIEW

NOTES (TO APPLY TO ALL):
1.) FILL GAP BETWEEN STRUCTURE & PVC WITH MORTAR OR INSTALL A FERNCO ADAPTER.
2.) SIZE ORIFICE AS REQUIRED
3.) FASTEN END CAP TO SYSTEM WITH PVC CEMENT.
4.) PIPE SIZES SHALL BE CONSISTENT.

DEPARTMENT OF PLANNING & DEVELOPMENT
STANDARD DRAWING

ORIFICE END–CAP DETAILS

DATE: NOVEMBER 2002 SHEET: 629



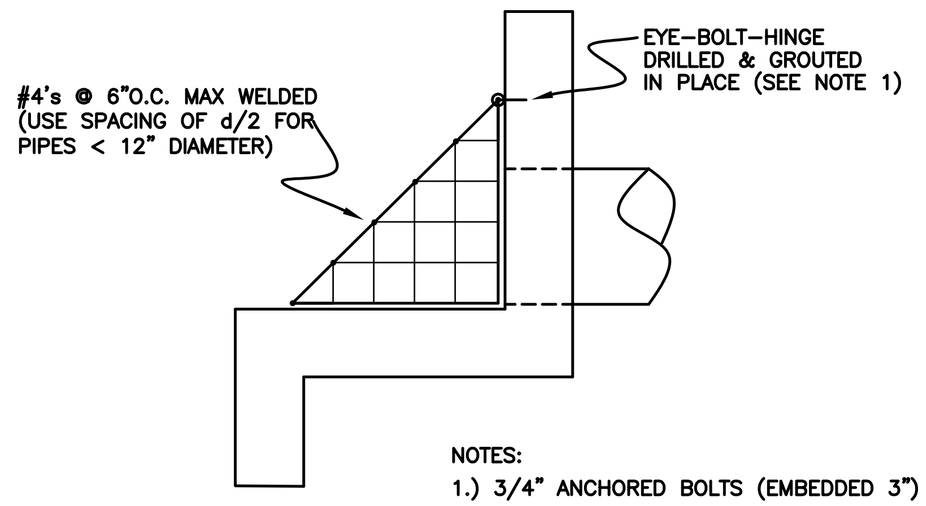
NOTES

1. DAM EMBANKMENTS SHALL BE CONSTRUCTED PER GEOTECHNICAL ENGINEER'S RECOMMENDATIONS. EMBANKMENTS, AT A MINIMUM, SHALL BE CONSTRUCTED IN SIX INCH (6") MAXIMUM LIFTS AND COMPACTED TO 95% MAXIMUM DRY DENSITY PER AASHTO T–99.
2. IMPERVIOUS CORE SHALL BE PROVIDED IN DAM. CORE SHALL BE CONSTRUCTED AS PER GEOTECHNICAL ENGINEER'S RECOMMENDATIONS.
3. EMERGENCY SPILLWAY SHALL BE CONSTRUCTED OF STABLE, NON–ERODIBLE MATERIAL PER GEOTECHNICAL ENGINEER'S RECOMMENDATION.
4. OUTLET PIPE SHALL BE REINFORCED CONCRETE PIPE IF H ≥ 9' AND STORAGE VOLUME ≥ 20 AC–FT. REFER TO SECTION 8.3 OF GWINNETT COUNTY DEVELOPMENT REGULATIONS FOR APPROVED PIPE MATERIALS.
5. BENCH SHALL BE A MINIMUM OF 10' AND SHOULD AVERAGE 15'. NO BENCH IS REQUIRED IF DAM SIDE SLOPE IS 4:1 OR FLATTER OR POOL < 4' DEEP.
6. REFER TO GC STD. DRAWING 630 FOR TRASHRACK DETAIL.

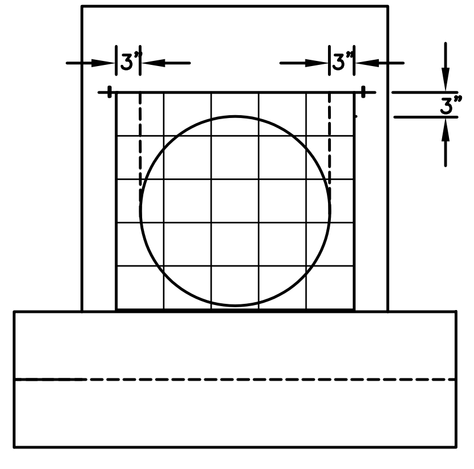
DEPARTMENT OF PLANNING & DEVELOPMENT
STANDARD DRAWING

EARTHFILL DAMS
MAX HEIGHT = 25'

DATE: AUGUST 2002 SHEET: 624



NOTES:
1.) 3/4" ANCHORED BOLTS (EMBEDDED 3")



DEPARTMENT OF PLANNING & DEVELOPMENT
STANDARD DRAWING

TRASHRACK FOR OUTLET CONTROL STRUCTURES

DATE: NOVEMBER 2002 SHEET: 628

REVISIONS

NO.	DATE	REMARKS
1	12/05	COMMENTS
2.	7/11	COMMENTS

SEAL

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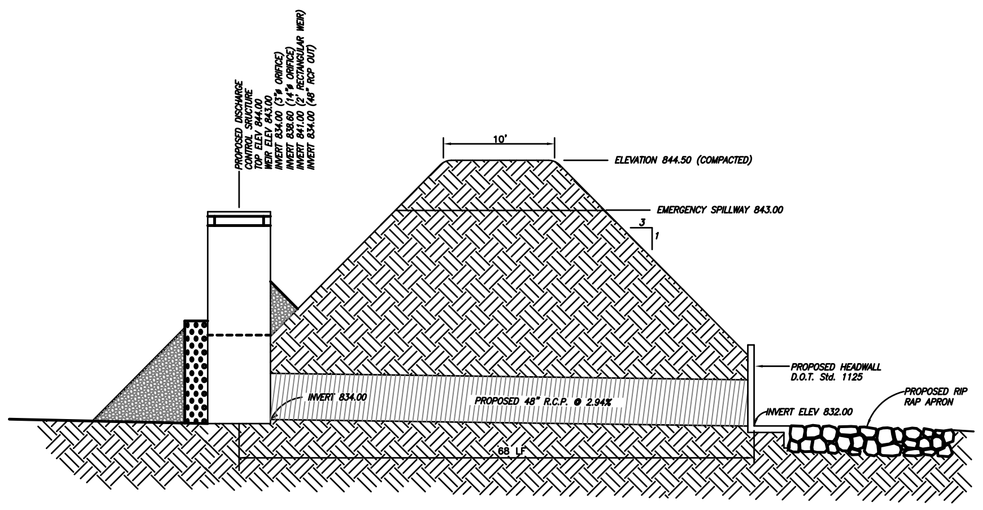
POND DETAILS:
FOR
NEW HORIZON PARTNERSHIP, LLC
CITY OF LOGANVILLE
WALTON COUNTY, GEORGIA
LAND LOTS 156, 157, 183, AND 184 – 4TH DISTRICT

SHEET NUMBER
C46 54
of
03–243.03 COVER

SCALE
N/A

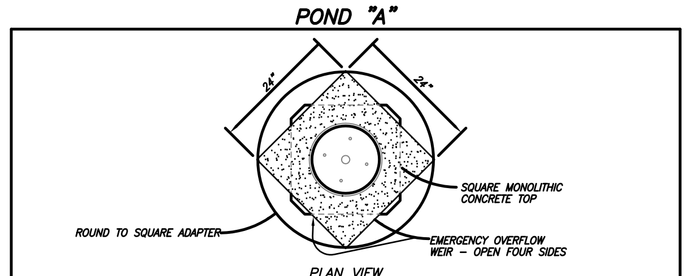
DATE
8/12/05

PROJECT NO.
03–243.03

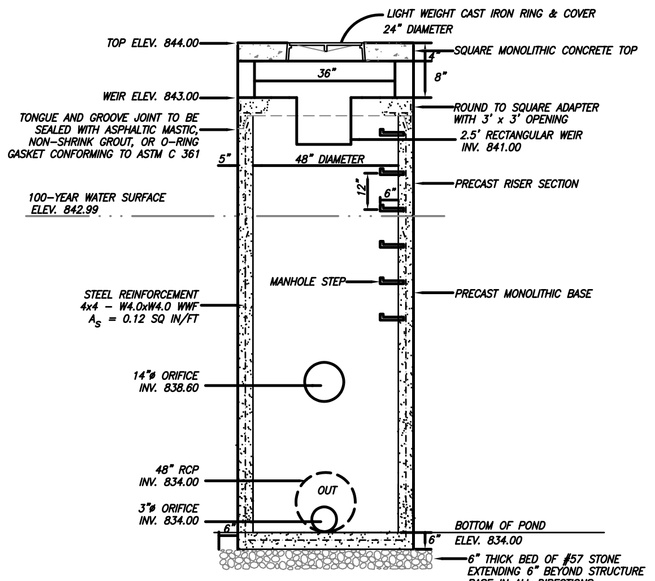


DETENTION POND "A"

POND "A"



PLAN VIEW

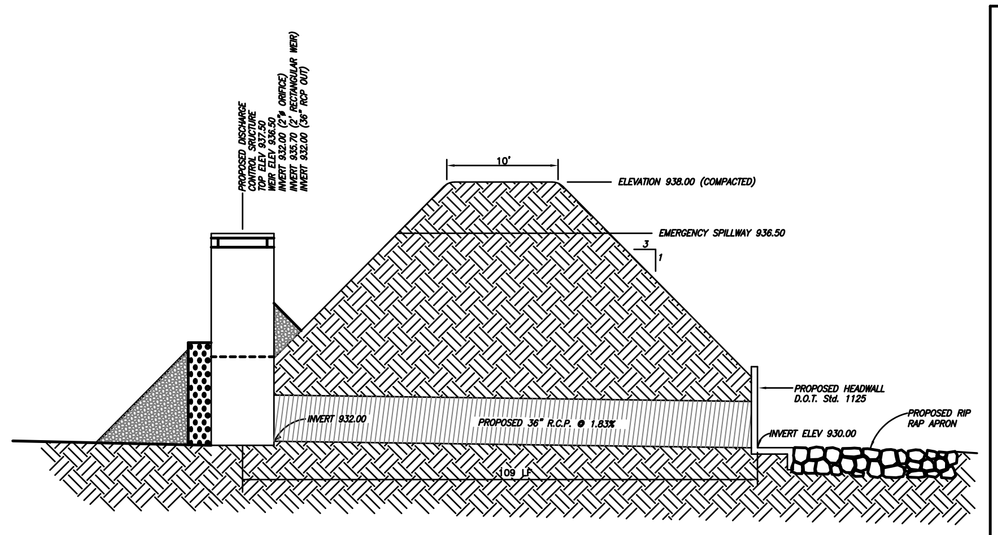


SECTION VIEW

1. ALL PRECAST SECTIONS SHALL BE MANUFACTURED IN ACCORDANCE WITH ASTM C 478.
2. CONCRETE FOR PRECAST SECTIONS SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4,000 PSI.
3. ALL MANHOLE STEPS SHALL CONFORM TO ASTM F 783.
4. ALL HOLES FOR PIPES SHALL BE CAST IN PLACE AT THE FACTORY OR CORED ON-SITE WITH A BORING MACHINE.
5. ALL GROUT USED IN MANHOLE CONSTRUCTION SHALL BE NON-SHRINKING, TYPE M, MORTAR CONFORMING TO ASTM C 270.

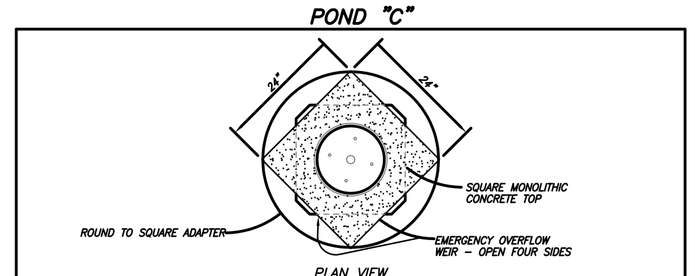
DISCHARGE CONTROL STRUCTURE DETAIL

PRECAST

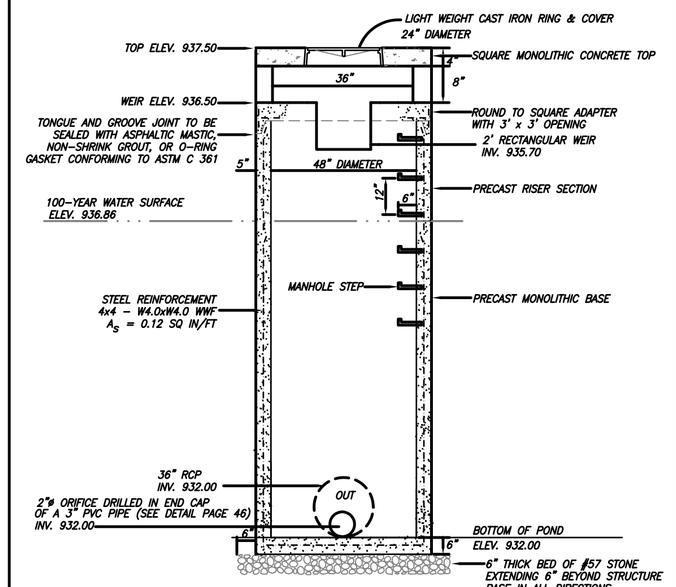


DETENTION POND "C"

POND "C"



PLAN VIEW

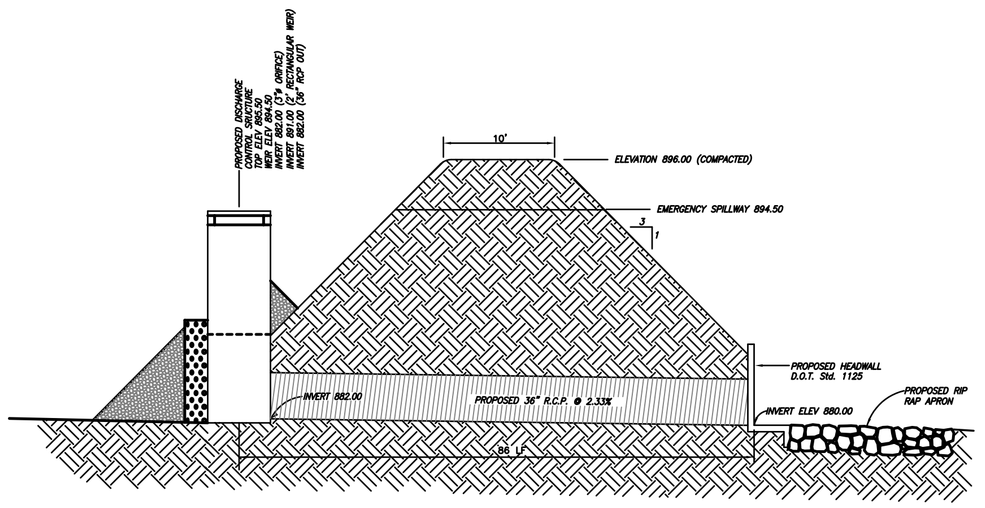


SECTION VIEW

1. ALL PRECAST SECTIONS SHALL BE MANUFACTURED IN ACCORDANCE WITH ASTM C 478.
2. CONCRETE FOR PRECAST SECTIONS SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4,000 PSI.
3. ALL MANHOLE STEPS SHALL CONFORM TO ASTM F 783.
4. ALL HOLES FOR PIPES SHALL BE CAST IN PLACE AT THE FACTORY OR CORED ON-SITE WITH A BORING MACHINE.
5. ALL GROUT USED IN MANHOLE CONSTRUCTION SHALL BE NON-SHRINKING, TYPE M, MORTAR CONFORMING TO ASTM C 270.

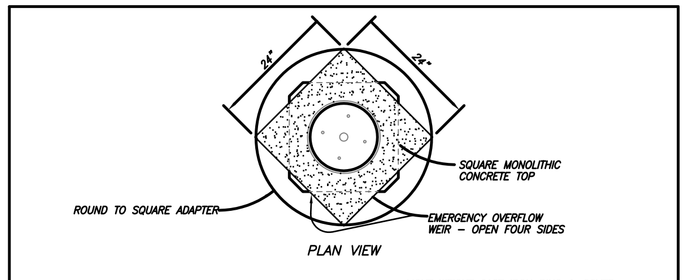
DISCHARGE CONTROL STRUCTURE DETAIL

PRECAST

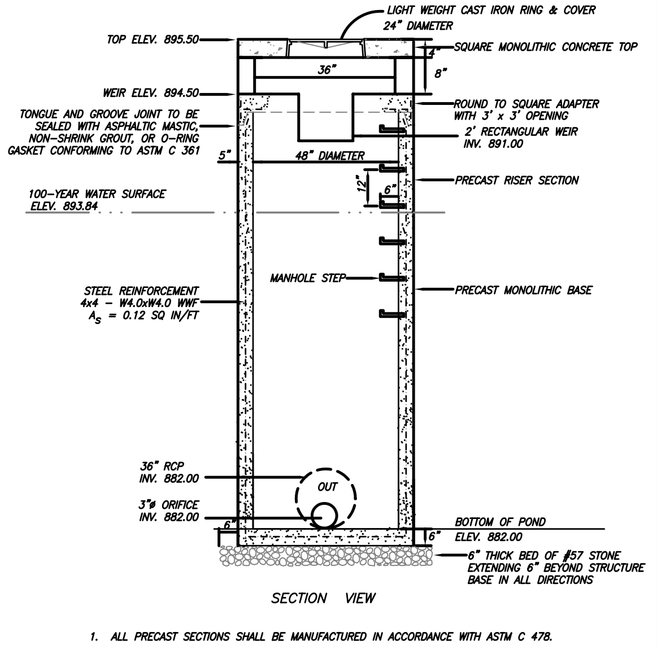


DETENTION POND "B"

POND "B"



PLAN VIEW

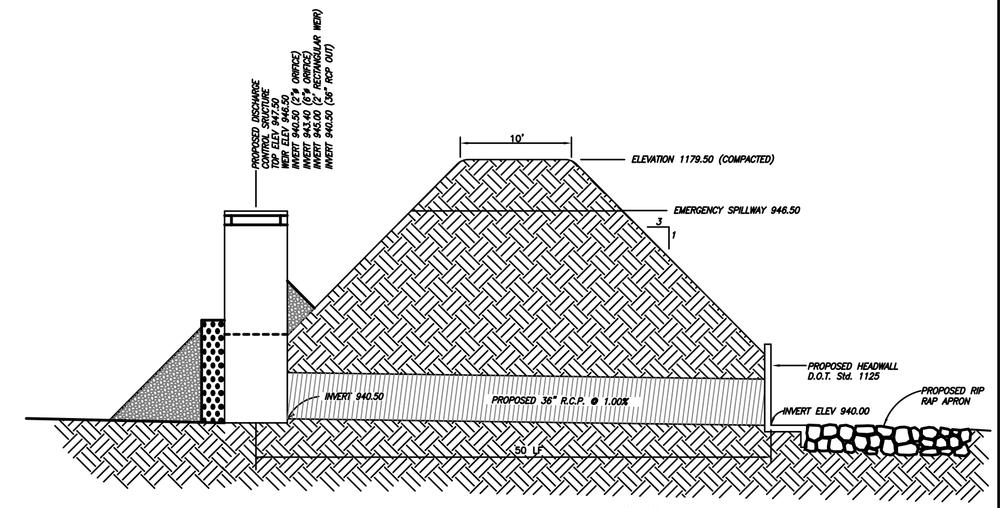


SECTION VIEW

1. ALL PRECAST SECTIONS SHALL BE MANUFACTURED IN ACCORDANCE WITH ASTM C 478.
2. CONCRETE FOR PRECAST SECTIONS SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4,000 PSI.
3. ALL MANHOLE STEPS SHALL CONFORM TO ASTM F 783.
4. ALL HOLES FOR PIPES SHALL BE CAST IN PLACE AT THE FACTORY OR CORED ON-SITE WITH A BORING MACHINE.
5. ALL GROUT USED IN MANHOLE CONSTRUCTION SHALL BE NON-SHRINKING, TYPE M, MORTAR CONFORMING TO ASTM C 270.

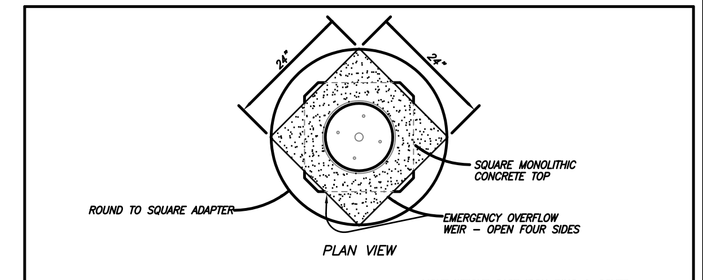
DISCHARGE CONTROL STRUCTURE DETAIL

PRECAST

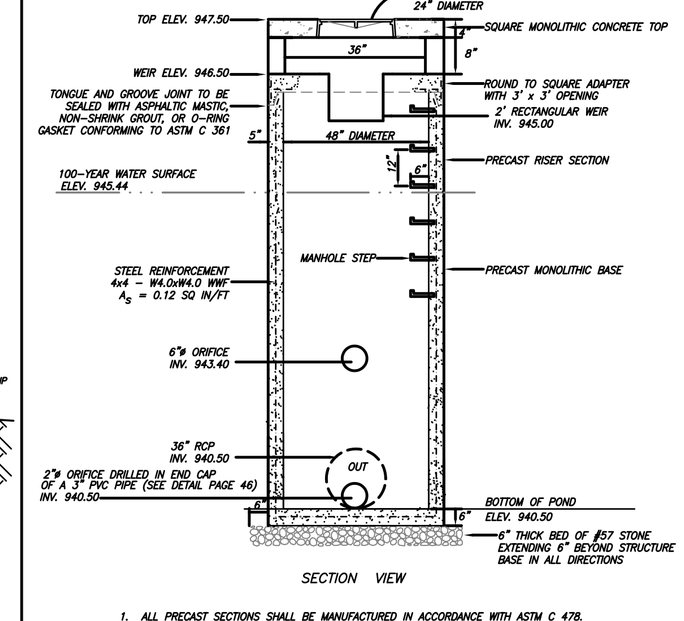


DETENTION POND "D"

POND "D"



PLAN VIEW



SECTION VIEW

1. ALL PRECAST SECTIONS SHALL BE MANUFACTURED IN ACCORDANCE WITH ASTM C 478.
2. CONCRETE FOR PRECAST SECTIONS SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4,000 PSI.
3. ALL MANHOLE STEPS SHALL CONFORM TO ASTM F 783.
4. ALL HOLES FOR PIPES SHALL BE CAST IN PLACE AT THE FACTORY OR CORED ON-SITE WITH A BORING MACHINE.
5. ALL GROUT USED IN MANHOLE CONSTRUCTION SHALL BE NON-SHRINKING, TYPE M, MORTAR CONFORMING TO ASTM C 270.

DISCHARGE CONTROL STRUCTURE DETAIL

PRECAST

REVISIONS

NO.	DATE	REMARKS
1	12/05	COMMENTS
2.	7/11	COMMENTS

SEAL

GEORGIA REGISTERED No. 18702 PROFESSIONAL ENGINEER PAUL S. BOYER

THIS DRAWING, AS AN INSTRUMENT OF SERVICE, IS AND SHALL REMAIN THE PROPERTY OF THE ENGINEER AND SHALL NOT BE REPRODUCED, PUBLISHED OR USED IN ANY WAY WITHOUT THE PERMISSION OF THE ENGINEER.

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AT THE SITE BEFORE PROCEEDING WITH EACH PHASE OF THE WORK.

Patton-Boyer, Inc.
CIVIL ENGINEERS & LAND SURVEYORS
600 ATLANTA HWY
GAINESVILLE, GEORGIA 30501
PHONE (770) 532 – 6492
FAX (770) 532 – 1995

POND DETAILS: FOR

NEW HORIZON PARTNERSHIP, LLC

CITY OF LOGANVILLE
WALTON COUNTY, GEORGIA
LAND LOTS 156, 157, 183, AND 184 – 4TH DISTRICT

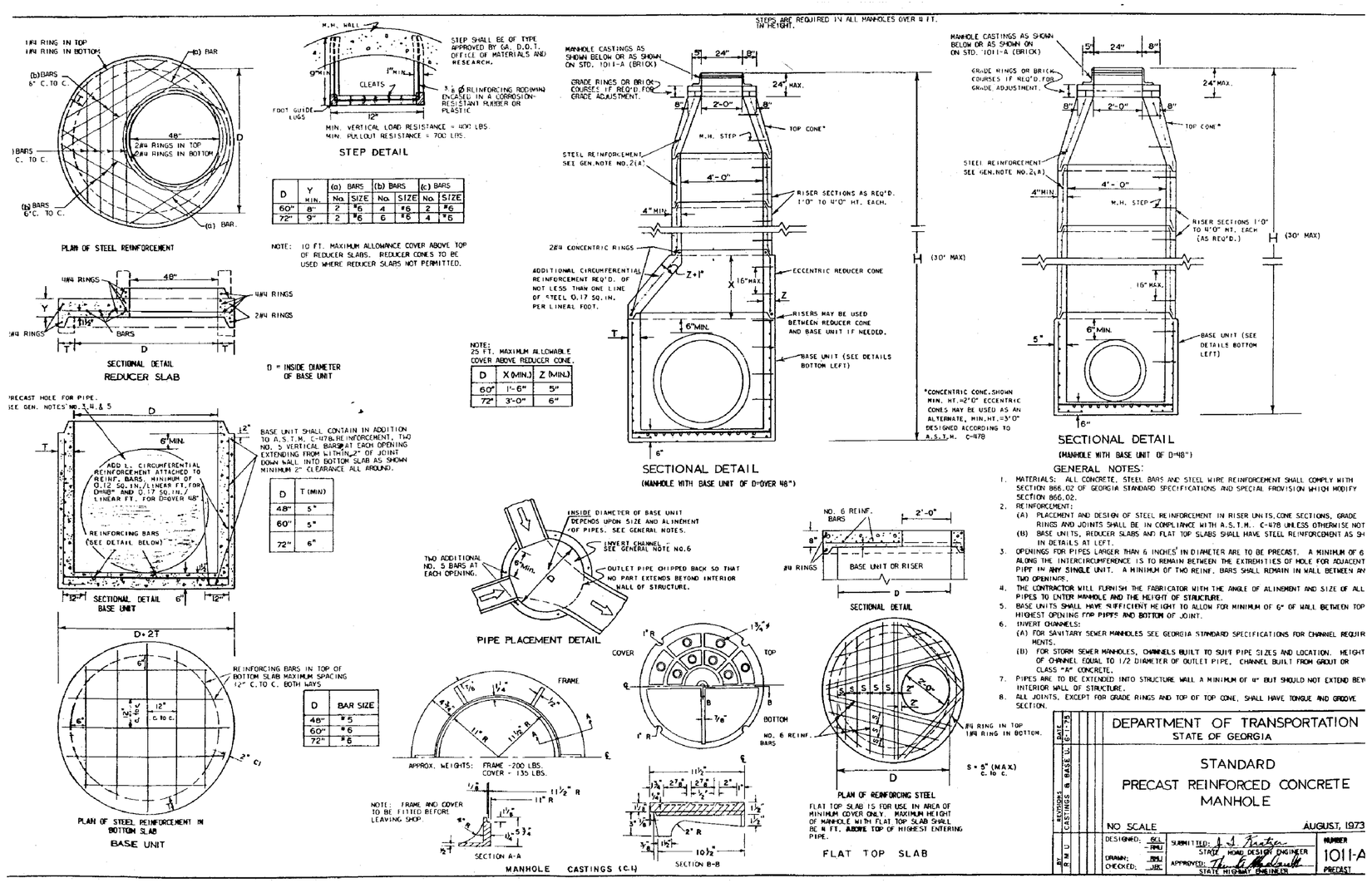
SHEET NUMBER

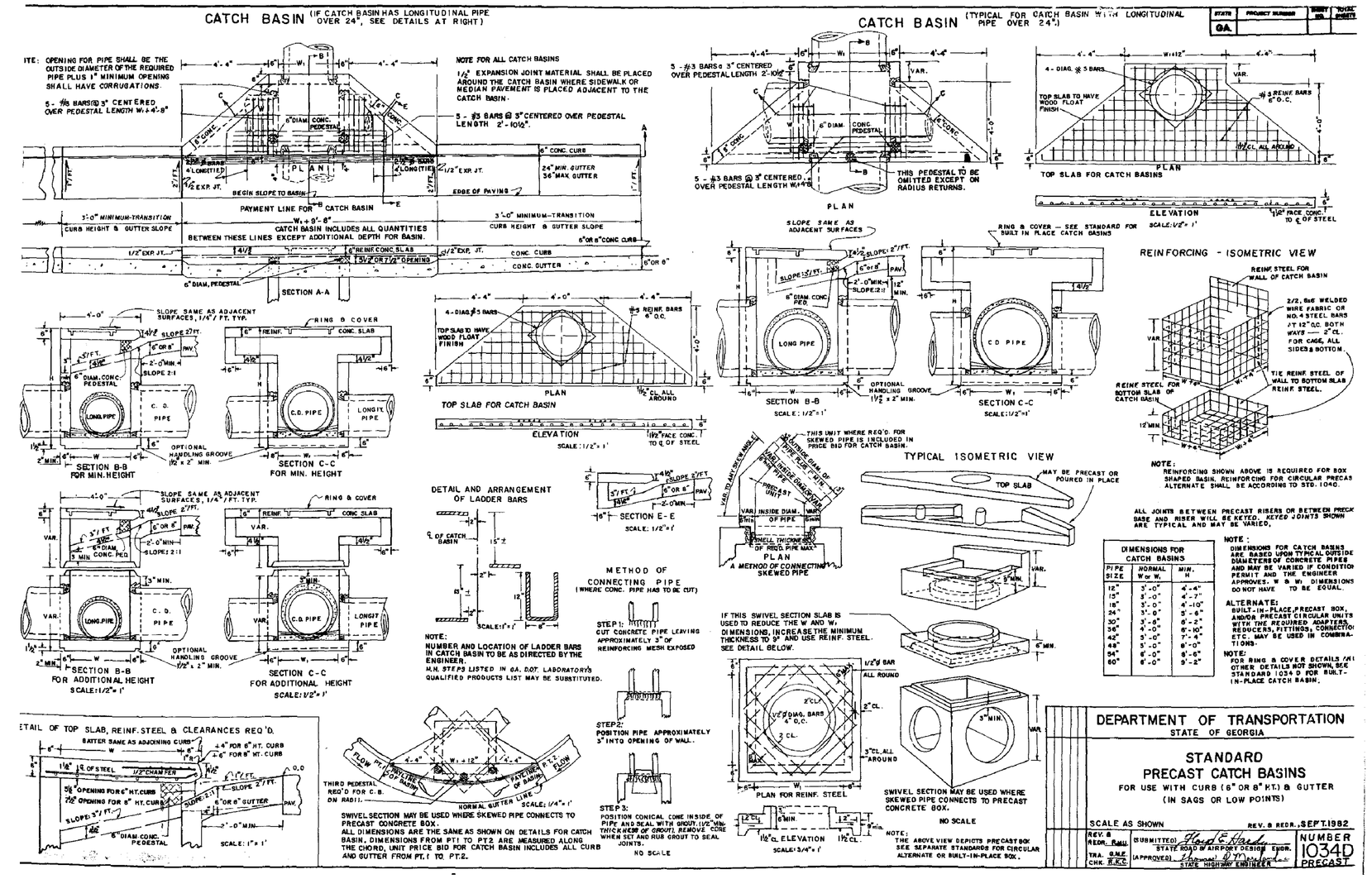
C47 54 of 03-243.03 COVER

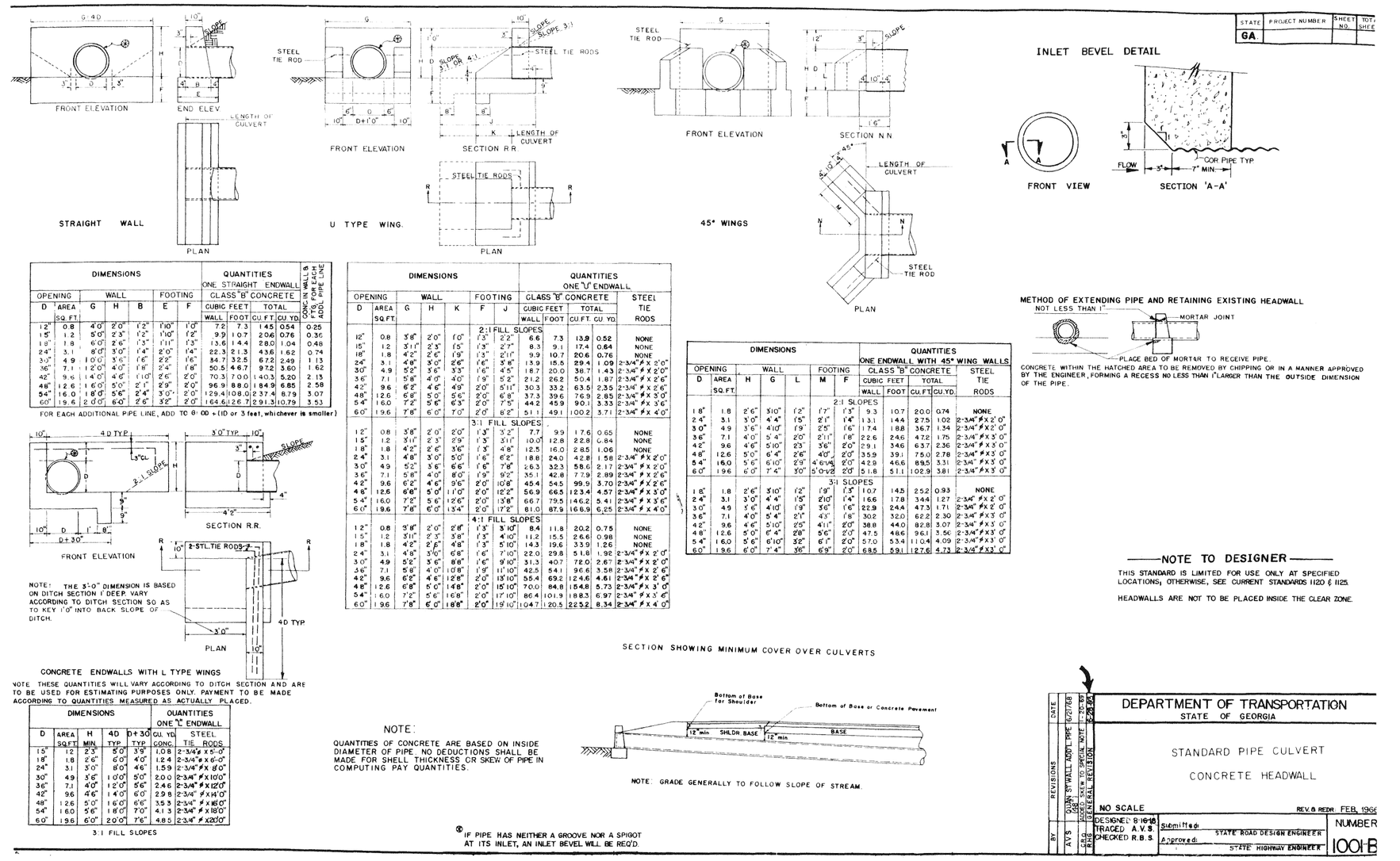
SCALE N/A

DATE 8/12/05

PROJECT NO. 03-243.03







REVISIONS

NO.	DATE	REMARKS
1	12/05	COMMENTS
2.	7/11	COMMENTS

SEAL

GEORGIA REGISTERED No. 18702 PROFESSIONAL ENGINEER PAUL S. BOYER

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Patton-Boyer, Inc.
LAND SURVEYORS & ENGINEERS
603 ATLANTIC HWY
GAINESVILLE, GEORGIA 30501
PHONE (770) 532 - 6492
FAX (770) 532 - 1995

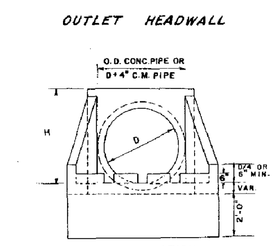
CONSTRUCTION DETAILS:
FOR
NEW HORIZON PARTNERSHIP, LLC
CITY OF LOGANVILLE
WALTON COUNTY, GEORGIA - 4TH DISTRICT
LAND LOTS 156, 157, 183, AND 184

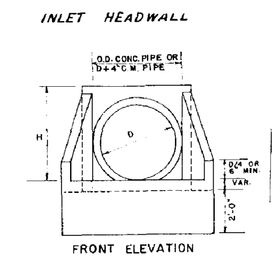
SHEET NUMBER
C48 54
of
03-243.03 COVER

SCALE
N/A

DATE
8/12/05

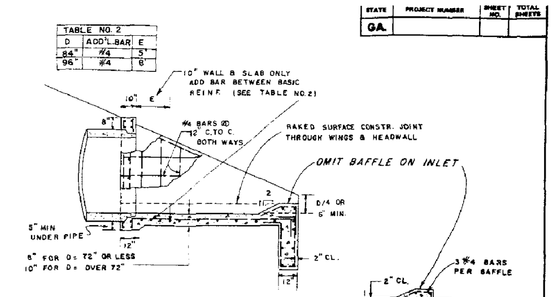
PROJECT NO.
03-243.03



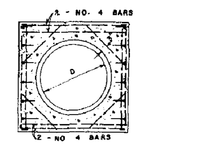


PLAN VIEW

PLAN VIEW



D = INSIDE DIAMETER OF PIPE



SECTION B-B (SINGLE PIPE LINE)

SECTION B-B (MULTIPLE PIPE LINE)

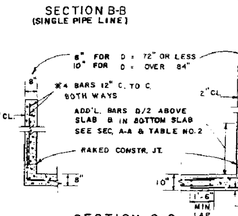
TABLE NO.1 - QUANTITIES FOR HEADWALLS

D	CU. YDS. CONCRETE (PAY QUANTITIES)* FOR SINGLE LINE			FOR EACH ADDL. LINE		LBS. STEEL (GIVEN FOR INFORMATION ONLY) FOR SINGLE LINE			ADD FOR EACH ADDL. LINE		
	INLET	OUTLET	INLET HDWL. W/TAP. PIPE	INLET	OUTLET	INLET	OUTLET	INLET HDWL. W/TAP. PIPE	INLET	OUTLET	INLET HDWL. W/TAP. PIPE
15"	0.87	0.93	—	0.60	0.66	102	113	—	73	83	—
18"	1.10	1.16	—	0.85	0.93	106	117	—	93	104	—
24"	1.61	1.69	1.78	1.29	1.37	127	138	158	124	134	122
30"	2.21	2.32	2.45	1.83	1.96	170	180	183	159	164	151
36"	2.93	3.05	3.29	2.49	2.63	236	254	233	196	212	191
42"	3.73	3.87	4.39	3.00	3.17	290	306	306	231	247	225
48"	4.62	4.80	5.11	3.58	3.74	335	351	381	265	281	257
54"	5.63	5.83	6.21	4.17	4.38	407	428	435	319	340	309
60"	6.72	6.93	7.42	4.82	5.01	456	477	499	360	391	347
72"	9.32	9.48	—	6.24	6.46	623	649	—	475	494	—
78"	24.84	15.19	—	9.25	9.29	1517	1549	—	1017	1064	—
96"	18.86	19.27	—	11.73	11.41	2118	2130	—	1523	1330	—

* NOTE: QUANTITIES SHOWN WILL BE ACTUAL PAY QUANTITIES FOR CLASS "A" CONCRETE INCLUDING REINFORCED STEEL, NO ADJUSTMENT WILL BE MADE FOR AS BUILT QUANTITIES.

D = INSIDE DIAMETER OF PIPE CULVERT

H = D + PIPE WALL THICKNESS + 8" FOR CONC. PIPE
H = D + 10" MIN. FOR C.M. PIPE



SECTION C-C

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD

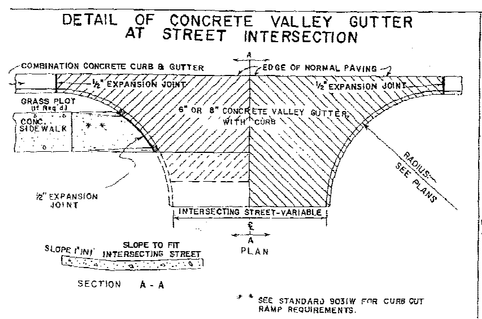
INLET HEADWALL - OUTLET HEADWALL
INLET HEADWALL WITH TAPERED PIPE

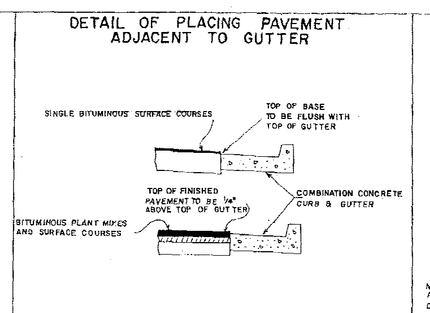
NO SCALE — NOVEMBER, 1960

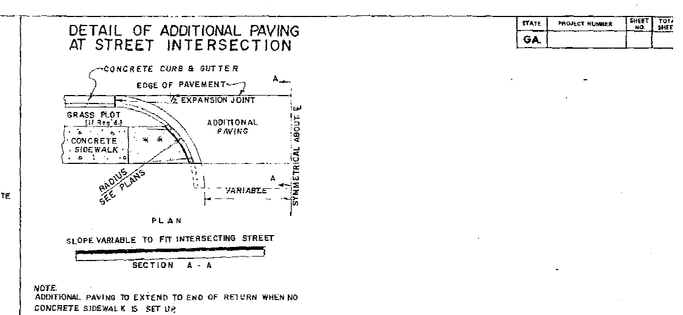
DES. J.T.G. — SUBMITTED: Charlie Hardy — STATE ROAD & AIRPORT DESIGN ENG.
DRN. C.M.W. — APPROVED: James D. Mitchell — STATE HIGHWAY ENGINEER
TRA. C.M.T.
CHK. R.M.D.

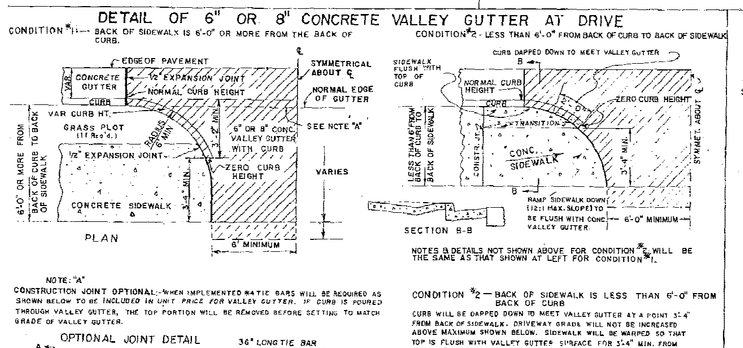
NUMBER 1125

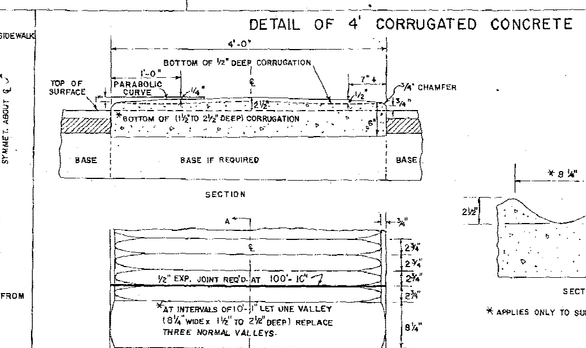
6" CONCRETE VALLEY GUTTER TO BE USED AND INTERSECTIONS











DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

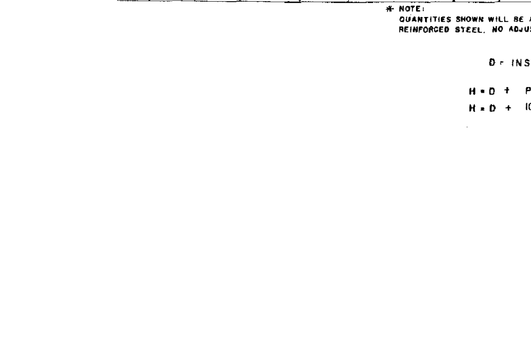
STANDARD

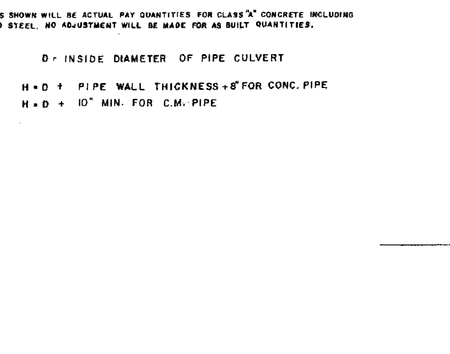
CONCRETE VALLEY GUTTER AT STREET INTERSECTIONS
6" OR 8" CONCRETE VALLEY GUTTER AT DRIVE
PLACING PAVEMENT ADJACENT TO GUTTER
ADDITIONAL PAVING AT STREET INTERSECTION
4' CORRUGATED CONCRETE MEDIAN

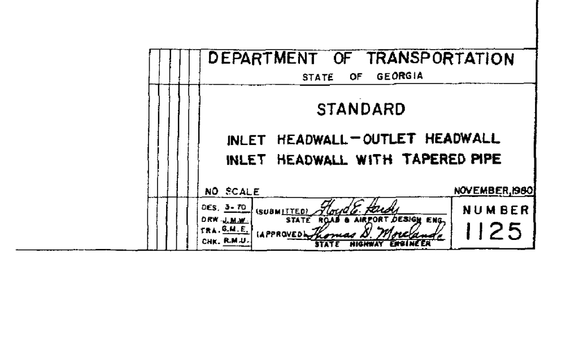
NO SCALE — REVISED TO INCORPORATE DEC. 1978

DES. W.L.G. — SUBMITTED: [illegible] — STATE ROAD & AIRPORT DESIGN ENGR.
DRN. C.E.M. — APPROVED: James D. Mitchell — STATE HIGHWAY ENGINEER
TRA. C.M.T.
CHK. R.M.D.

NUMBER 9031







STATE	PROJECT NUMBER	SHEET NO.	TOT. SHEE
GA.			

GENERAL NOTES

STEEL
Galvanized Steel shall meet A.A.S.H.T.O. Specifications.

CONNECTORS
Payment for End Section shall include Connection of the type required for the Side Drain used.

END SECTION COATINGS
Except where uncoated Galv Steel Pipe is allowed for Side Drain Pipe, End Sections shall be coated per Sec. 210.7 Specification, Sec's 444.05, 444.06, 444.07, or as approved by the G.D.O.T. Laboratory.

SAFETY BARS shall be Schedule 40 Galvanized Steel Pipe Pipe to be galvanized after forming. Safety Bars shall be required for all Safety End Sections. Coating of Galvanized Bars is not required.

MISCELLANEOUS DETAILS
Details of Construction Materials and Workmanship not shown on this drawing shall conform to the manufacturer's requirements, subject to approval by the G.D.O.T.'s Laboratory. A sample must be submitted to pre-qualify the product.

SIZES, DIMENSIONS, AND THICKNESSES

Pipe Dia (in.)	Min Thick. in.	Gage	A	H	W D+6"	Dimensions (inches) Overall Width	# L Dimensions Slope (S:1)	Length (in.)	Slope (S:1)	Length (in.)
15	.064	16	8	6	21	37	4:1	20	6:1	30
18	.064	16	8	6	24	40	4:1	32	6:1	48
24	.064	16	8	6	30	43	4:1	56	6:1	84
30	.109	12	12	9	36	60	4:1	80	6:1	120
36	.109	12	12	9	42	66	4:1	104	6:1	156
42	.109	12	16	12	48	80	4:1	129	6:1	192
48	.109	12	16	12	54	86	4:1	152	6:1	228

SEE STD. NO. 9031F FOR SLOPE AT SIDE ROAD OR AT DRIVE

SPECIAL NOTE:

WHERE THE LENGTH OF DITCH OR THE DISTANCE BETWEEN TOE POINTS OF END SECTIONS ON SEPARATE INSTALLATIONS WOULD BE LESS THAN 30 FT., CONTINUOUS PIPE WITH AN INTERMEDIATE INLET OR OTHER ALTERNATE MAY BE SPECIFIED INSTEAD.

Measurement: SAFETY END SECTIONS WILL BE MEASURED BY THE UNIT.

Payment: SAFETY END SECTIONS WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR EACH SECTION OF THE SPECIFIED SIZE.
PAYMENT WILL BE MADE UNDER:
Item No. 550, SAFETY END SECTION ___IN, ___ DRAIN, ___SLOPE

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAILS
SAFETY SLOPE END SECTION
(FOR SIDE DRAIN PIPE - OR FOR STORM DRAIN PIPE PARALLEL TO MAINLINE)

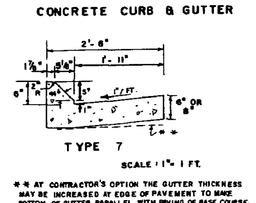
NO SCALE — SEPTEMBER, 1993

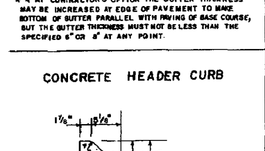
DES. B
REV.
DRN. C.M.W.
TRA. C.M.T.
CHK. R.M.D.

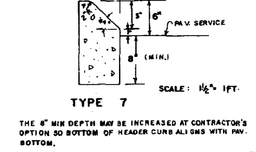
SUBMITTED: STATE ROAD & AIRPORT DESIGN ENG.
APPROVED: CHIEF ENGINEER

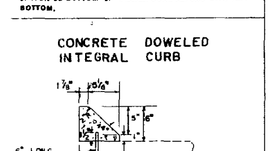
ID:

TYPE 7 CONCRETE CURB AND GUTTER TO BE USED ALONG ROADWAY

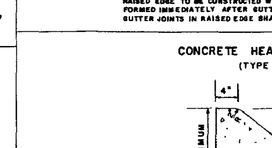


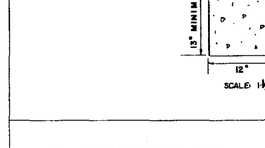


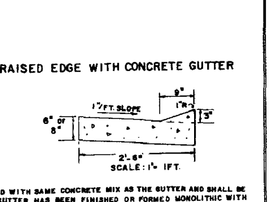


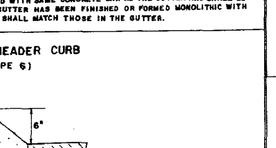


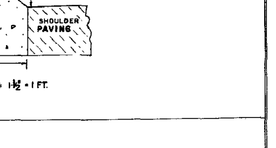


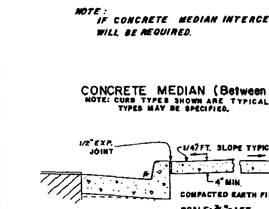


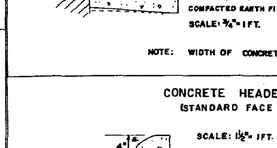


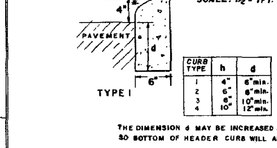


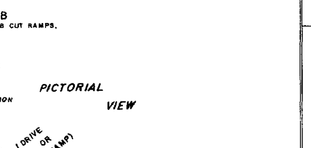












DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD

CONCRETE CURB & GUTTER
CONCRETE CURBS, CONCRETE MEDIANS

SCALE: AS SHOWN — APRIL, 1981

DES. R.M.D. — SUBMITTED: [illegible] — STATE ROAD & AIRPORT DESIGN ENGR.
DRN. R.M.D.
TRA. S.W.C.
CHK. R.M.D.
APPROVED: James D. Mitchell — STATE HIGHWAY ENGINEER

NUMBER 9032F

REVISIONS		
NO.	DATE	REMARKS
1	12/05	COMMENTS
2.	7/11	COMMENTS

SEAL

GEORGIA — REGISTERED — No. 18702 — PROFESSIONAL — ENGINEER — PAUL S. BOYER

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THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AT THE SITE BEFORE PROCEEDING WITH EACH PHASE OF THE WORK.

Patton-Boyer, Inc.
LAND SURVEYORS & ENGINEERS
600 ATLANTA HWY.
GAINESVILLE, GEORGIA 30501
PHONE (770) 532 - 6492
FAX (770) 532 - 1995

CONSTRUCTION DETAILS:
FOR
NEW HORIZON PARTNERSHIP, LLC
CITY OF LOGANVILLE
WALTON COUNTY, GEORGIA — 4TH DISTRICT
LAND LOTS 156, 157, 183, AND 184

SHEET NUMBER
C49 54
of
03-243.03 COVER

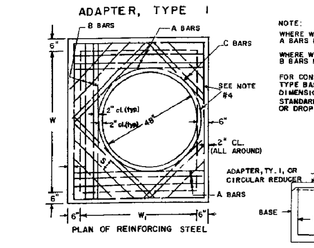
SCALE
N/A

DATE
8/12/05

PROJECT NO.
03-243.03

CIRCULAR PRECAST REINFORCED CONCRETE SECTIONS

ADAPTER, TYPE 1



PLAN OF REINFORCING STEEL

NOTE: WHERE W=48" ONLY, B BARS NOT REQUIRED. WHERE W=66" ONLY, B BARS NOT REQUIRED. FOR CONSTRUCTION OF BOX CULVERT TO CIRCULAR PIPE DIMENSIONS, SEE APPLICABLE STANDARDS FOR CATCH BASINS OR DROP INLETS.

SECTIONAL DETAIL

W IN IN	BAR SIZE	S	Y1 IN (MIN)	Y2 IN (MIN)
48"	#4	6"	6"	6"
54"	#4	6"	6"	6"
60"	#5	6"	8"	8"
66"	#5	6"	8"	8"
72"	#6	5 1/2"	9"	11"
84"	#6	5"	10"	12"

MIN. THICKNESS WHERE BMT OF FILL IS 12 FEET OR LESS, TOP OF SECTION TO BOTTOM OF PAVEMENT.

MIN. THICKNESS WHERE BMT OF FILL ABOVE ADAPTER, TYPE 1, OR CIRCULAR REDUCER IS 12 TO 18 FEET.

CIRCULAR RISER SECTIONS - DESIGN AND STEEL REINFORCEMENT TO COMPLY WITH A.S.T.M. C-478 FOR PRECAST MANHOLE SECTIONS WITH 12" TO 4'-0" EACH.

KEYED JOINT REQUIRED AT ALL SECTIONS UNLESS NOTED OTHERWISE

CIRCULAR BASE UNIT - WALL DESIGN AND REINFORCEMENT SHALL BE IDENTICAL TO RISER EXCEPT THAT MIN. ET THICKNESS =5" AND ALL PRECAST OPENINGS FOR PIPES SHALL HAVE TWO ADDITIONAL VERTICAL REINFORCING BARS AS SHOWN.

MIN WALL THICKNESS (T)		
D	BASE	RISER
48"	5"	5"
60"	5"	5"
72"	5"	5"

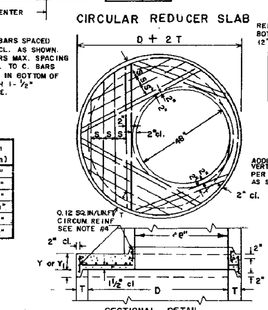
MATERIALS FOR BASE UNITS AND RISER SECTIONS SHALL MEET STANDARD SPECIFICATIONS FOR PRECAST MANHOLE SECTIONS.

D	MAX. PIPE SIZE
48"	30"
60"	42"
72"	48"

ADDITIONAL VERTICAL BARS EXTENDED AS SHOWN

48"-60" SIZE OF WELL LAPPED UNDER BOTTOM SLAB REINF. BARS ALL AROUND

CIRCULAR REDUCER SLAB



SECTIONAL DETAIL

REINF. STEEL BARS IN BOTTOM MAT SPACING 12", C. TO C. BOTH WAYS.

D	BAR SIZE	NO.
48"	#5	8
60"	#5	10
72"	#5	12

LEAK PROOF CONNECTION ALL AROUND EACH PIPE.

ADDITIONAL REINF. BARS, TWO PER OPENING, SPACED AS SHOWN.

PLAN OF REINFORCING STEEL IN BOTTOM SLAB

0.12 SQ.IN./LIN.FT. CIRCUMFERENTIAL REINF.

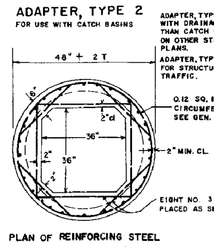
OUTLET PIPE-SET BELL OR GROOVE FLUSH WITH CORNERS OR BEVEL CORNERS 2" TO APPROX HYDRAULIC EFFICIENCY.

SECTION A-A

CONTRACTOR SHALL PROVIDE FABRICATOR WITH PIPE SIZES AND ALIGNMENT.

ADAPTER, TYPE 2

FOR USE WITH CATCH BASINS



PLAN OF REINFORCING STEEL

EIGHT NO. 3 REINF. BARS PLACED AS SHOWN.

SECTIONAL DETAIL

ADAPTER, TYPE 3

ADAPTER, TYPE 3, MAY BE USED WITH DRAINAGE STRUCTURES OTHER THAN CATCH BASINS, IF SO NOTED ON OTHER STANDARDS OR IN THE PLANS.

ADAPTER, TYPE 3, WILL BE USED WITH STRUCTURES WHICH ARE UNDER TRAFFIC.

0.12 SQ.IN./LIN.FT. CIRCUMFERENTIAL REINF. SEE GEN. NOTE NO. 4

NO. 6 BARS

NO. 4 REINF. BARS SPACED AT 12" C. BOTH WAYS

NO. 6 BARS

NO. 4 BARS

2" CL. ALL AROUND

PLAN OF REINFORCING STEEL

NO. 3 REINF. BARS

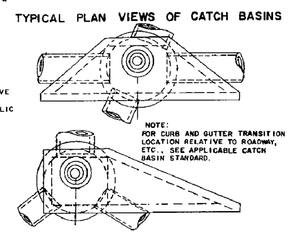
CLEARANCE FOR CIRCUM. REINF.

CLEARANCE FOR REINF.

JOINT DEPTH

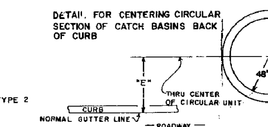
SECTIONAL DETAIL

TYPICAL PLAN VIEWS OF CATCH BASINS



NOTE: FOR CURB AND GUTTER TRANSITION LOCATION RELATIVE TO ROADWAY, ETC., SEE APPLICABLE CATCH BASIN STANDARD.

DETAIL FOR CENTERING CIRCULAR SECTION OF CATCH BASINS BACK OF CURB



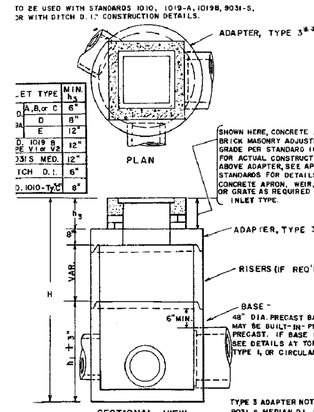
SECTIONAL DETAIL

GENERAL NOTES:

1. MANHOLE STEPS OF TYPE APPROVED BY GA. D.O.T. (E-78) IN LABORATORY OR SHOWN ON STDS. FOR PRECAST M.H.'S ARE REQUIRED IN ALL STRUCTURES WHERE H-OVER 4'-0". NUMBER, LOCATION, AND INSTALLATION TO BE AS DIRECTED BY THE ENGINEER.
2. ALL CIRCULAR SECTIONS WILL HAVE TONGUE AND GROOVE TYPE JOINT IN ACCORDANCE WITH A.S.T.M. C-478.
3. ALL PIPE OVER 24" IN DIAMETER MUST BE PRECAST.
4. ALL ADAPTERS AND REDUCER SLABS SHALL CONTAIN, IN ADDITION TO STEEL SHOWN, CIRCUMFERENTIAL REINFORCEMENT IN LIP AND EXTENDING INTO BODY OF SLAB AS SHOWN.
5. FOR CONSTRUCTION ABOVE ADAPTER, TYPE 3, AND TYPE 3, AND BELOW TYPE 1, SEE APPLICABLE GA. STDS. FOR CATCH BASINS AND DROP INLETS.
6. CIRCULAR SECTIONS SHOWN ON THIS STANDARD MAY BE SUBSTITUTED FOR THE SQUARE SECTIONS ON GA. STDS. AND CONSTRUCTION DETAILS FOR CATCH BASINS AND DROP INLETS, WHERE STRUCTURE HEIGHT, PIPE SIZE, AND ALIGNMENT PERMIT. SPECIFIED STRUCTURE HEIGHT SHALL BE SUFFICIENT TO ACCOMMODATE THE REQUIRED BASE SIZES, ADAPTERS, RISERS, AND TOP PORTION FOR ALLOWANCE OF THE CIRCULAR ALTERNATE.

DROP INLET WITH CIRCULAR SECTIONS

TO BE USED WITH STANDARDS 1010, 1019-A, 1019B, 9031-D, OR WITH DITCH D 3.1" CONSTRUCTION DETAILS.

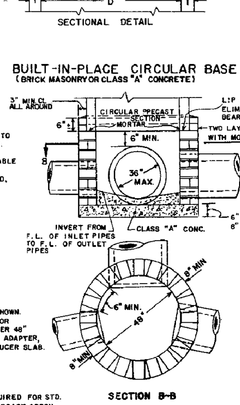


SECTIONAL VIEW

TYPE 3 ADAPTER NOT REQUIRED FOR STD. 9031-D MEDIAN D.I. & PRECAST APRON (IF USED) (SEE STANDARD 9031-B PRECAST)

BUILT-IN-PLACE CIRCULAR BASE

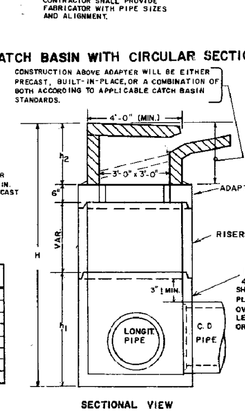
(CIRCLE MASONRY OR CLASS "A" CONCRETE)



SECTION B-B

CATCH BASIN WITH CIRCULAR SECTIONS

CONSTRUCTION ABOVE ADAPTER WILL BE EITHER PRECAST, BUILT-IN-PLACE, OR A COMBINATION OF BOTH ACCORDING TO APPLICABLE CATCH BASIN STANDARDS.



SECTIONAL VIEW

ID STD NO	CURB HEIGHT	MIN. ½	"L"
1033 C	6"	1'-0"	2'-0"
1033 D	8"	2'-0"	2'-0"
1033 E	6"	2'-0"	3'-0"
	8"	1'-11"	4'-0"
1033 F	6"	2'-11"	4'-0"
	8"	2'-11"	5'-0"
	10"	2'-11"	6'-0"
1034 D	6"	2'-3"	2'-0"
1034 E	8"	2'-3"	3'-0"
	6"	2'-0"	3'-0"
	8"	1'-11"	4'-0"
1034 F	6"	2'-1"	4'-0"
	8"	2'-1"	5'-0"
	10"	2'-1"	6'-0"

PIPE SIZE	MIN. "L"
12"	2'-3"
15"	2'-6"
18"	2'-9"
24"	3'-0"
30"	3'-6"
36"	4'-0"
42"	4'-3"
48"	5'-3"

REFERENCED STANDARD MAY BE PRECAST OR BUILT-IN PLACE.

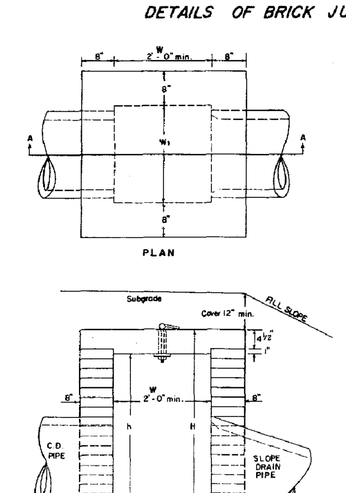
DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
STANDARD
CIRCULAR BASE UNITS AND RISERS FOR CATCH BASINS AND DROP INLETS
(CONSTRUCTION ALTERNATES)

NO SCALE — REV. & REISS. FEB. 1970 — NUMBER 1040

DESIGNED R.M.H. — SUBMITTED
DRAWN R.M.H.
TRACED A.W.S.
CHECKED R.M.H. — APPROVED

STATE HIGHWAY ENGINEER

DETAILS OF BRICK JUNCTION BOX



PLAN

METHOD OF LAYOUT FOR SKEWED PIPE

SECTION A-A

USE 6" THICK PLAIN NON-REINFORCED CONC. BOTTOM SLAB FOR W & W1 = 6'-0" THRU 8'-0"

USE 10" THICK PLAIN NON-REINF. CONC. BOTTOM SLAB FOR W & W1 = 8'-1" THRU 7'-0"

NOTE: MINIMUM OF THREE - 3/4"ø STEEL LADDER BARS ARE REQUIRED IN ALL JUNCTION BOXES WHERE H IS GREATER THAN 4'-0". NUMBER & LOCATION OF LADDER BARS IN JUNCTION BOX TO BE AS DIRECTED BY THE ENGINEER.

DETAIL AND ARRANGEMENT OF LADDER BARS

BEVEL DETAIL

BEVEL REQUIRED AT OUTLET PIPE WHICH BELL OR GROOVE SECTION IS NOT PROVIDED.

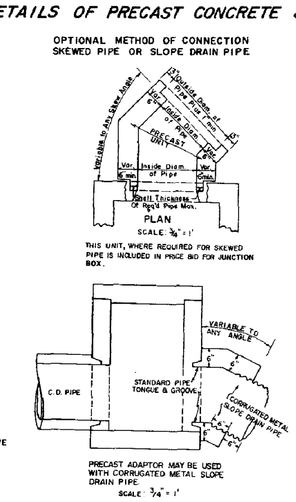
SECTIONAL VIEW

PLAN

REINFORCED STEEL FOR JUNCTION BOX COVER

DETAILS OF PRECAST CONCRETE JUNCTION BOX

OPTIONAL METHOD OF CONNECTION SKEWED PIPE OR SLOPE DRAIN PIPE



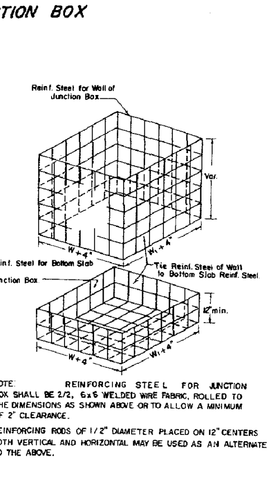
PLAN

SECTION A-A

HANDLING GROOVE (Optional)

PRECAST ADAPTOR MAY BE USED WITH CORRUGATED METAL SLOPE DRAIN PIPE.

SCALE: 3/4" = 1'



PLAN

THIS UNIT, WHERE REQUIRED FOR SKEWED PIPE IS INCLUDED IN PRICE BID FOR JUNCTION BOX.

Reinf. Steel for Bottom Slab of Junction Box

Reinf. Steel for Wall of Junction Box

Reinf. Steel for Bottom Slab

The Reinf. Steel of Wall & Bottom Slab Need Not Be Bent

NOTE: REINFORCING STEEL FOR JUNCTION BOX SHALL BE 1/2, 6x6 WELDED WIRE FABRIC ROLLED TO THE DIMENSIONS AS SHOWN ABOVE OR TO ALLOW A MINIMUM OF 2" CLEARANCE.

REINFORCING RODS OF 1'-2" DIAMETER PLACED ON 12" CENTERS BOTH VERTICAL AND HORIZONTAL MAY BE USED AS AN ALTERNATE TO THE ABOVE.

SECTION A-A

NO. 4 Bars at 6" C. C.

2" CL. ALL AROUND

REINF. STEEL FOR TRUNNION BOX COVER

CIRCULAR PRECAST JUNCTION BOX

BASIN AND TOP WILL HAVE DESIGN AND REINFORCEMENT ACCORDING TO A.S.T.M. C-478 EXCEPT WHERE INDICATED OTHERWISE. MATERIALS WILL COMPLY WITH GA. STD SPECIFICATIONS FOR PRECAST MANHOLE SECTIONS

D	T (MIN)	T1 (MIN)	MAX. PIPE SIZE	HEIGHT SIZE (in Bottom)
4'-0"	5"	6"	30"	12"
5'-0"	5"	6"	42"	12"
			48"	24"

PIPE SIZE	MIN. h	MIN. H
15"	1'-10"	3'-10"
18"	1'-10"	3'-10"
24"	2'-0"	4'-0"
30"	2'-3"	4'-3"
36"	2'-6"	4'-6"
42"	2'-9"	4'-9"
48"	3'-0"	5'-0"

NOTE: OPENINGS SHALL BE PRECAST FOR BOTH INLET AND OUTLET PIPES.

ADD'L "h" BARS, 2 PER OPENING

MIN. INSERT FOR OUTLET PIPE SIZES ≤ 30" = 3½" FOR 36" & LARGER CONC. PIPE

OUTLET PIPE - SET BELL OR GROOVE FLUSH WITH CORNERS FOR CONCRETE PIPES.

SECTIONAL VIEW

PLAN

SCALE: 3/4" = 1'

REINF. STEEL FOR JUNCTION BOX COVER

SECTIONAL VIEW

SCALE: 1" = 1'

ALTERNATE METHOD OF CONNECTING BOLT & RING

Washer, Bolt & Ring To Be Galvanized Steel Or Wrought Iron. Ring To Be Placed In Eye Of Bolt Before Leaving Shop.

EYE BOLT — NO SCALE — 4" WASHER

DETAILS OF BOLT, RING & WASHER FOR JUNCTION BOX COVER

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
STANDARD
JUNCTION BOXES

JUNCTION BOX (BRICK)
JUNCTION BOX (PRECAST)
JUNCTION BOX (CIRCULAR PRECAST)

SCALE AS SHOWN — JAN. 1969

DESIGNED — SUBMITTED
DRAWN D.W.H.
TRACED A.W.S.
CHECKED B.B.S. — APPROVED

STATE ROAD DESIGN ENGINEER
STATE HIGHWAY ENGINEER

NUMBER 9031 U

NO.	DATE	REMARKS
1	12/05	COMMENTS
2.	7/11	COMMENTS

SEAL

GEORGIA REGISTERED No. 18702 PROFESSIONAL ENGINEER PAUL S. BOYER

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THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AT THE SITE BEFORE PROCEEDING WITH EACH PHASE OF THE WORK.

Patton-Boyer, Inc.
LAND PLANNING & CIVIL ENGINEERS
909 ATLANTA HWY
GAINESVILLE, GEORGIA 30501
PHONE (770) 532 - 6492
FAX (770) 532 - 1995

CONSTRUCTION DETAILS:
FOR
NEW HORIZON PARTNERSHIP, LLC
CITY OF LOGANVILLE
WALTON COUNTY, GEORGIA
LAND LOTS 156, 157, 183, AND 184 — 4TH DISTRICT

SHEET NUMBER
C50 54
of
03-243.03 COVER

SCALE
N/A

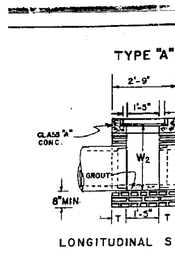
DATE
8/12/05

PROJECT NO.
03-243.03

TYPE "A" THRU TYPE "E" (WITH HOOD)

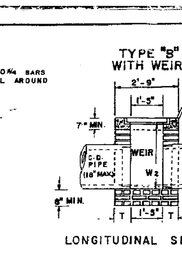
STATE	PROJECT NUMBER	SHT. NO.	TOTAL SHEETS
GA.			

TYPE "A"



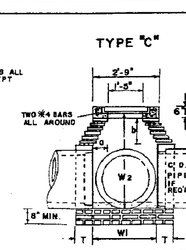
LONGITUDINAL SECTION

TYPE "B" WITH WEIR



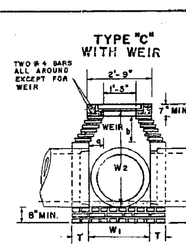
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TYPE "C"



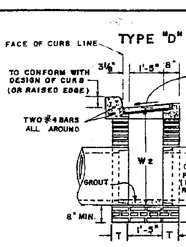
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TYPE "C" WITH WEIR



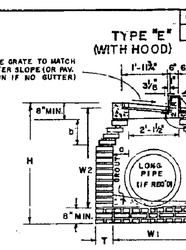
LONGITUDINAL SECTION

TYPE "D"

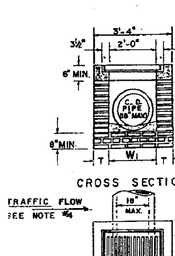


LONGITUDINAL SECTION

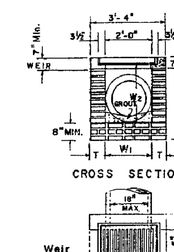
TYPE "E" (WITH HOOD)



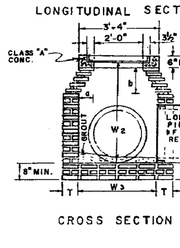
LONGITUDINAL SECTION



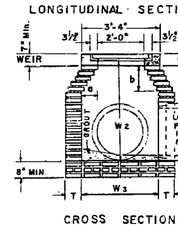
CROSS SECTION



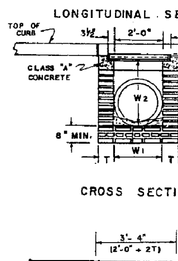
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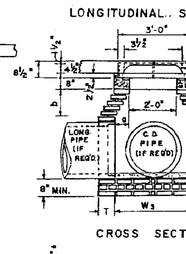
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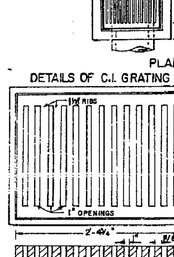
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CROSS SECTION

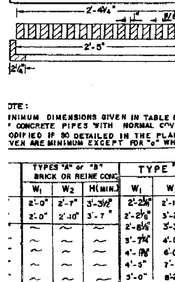


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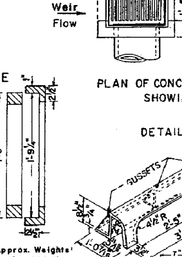


PLAN

DETAILS OF CI. GRATING & FRAME

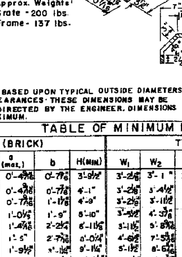


PLAN OF CONCRETE COPING SHOWING WEIR

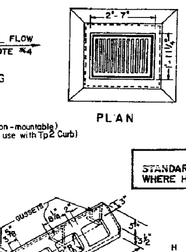


PLAN

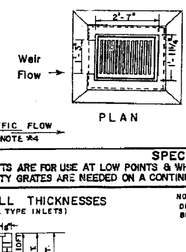
DETAIL OF "HOOD" (non-mountable) (use with 2'-6" Curb)



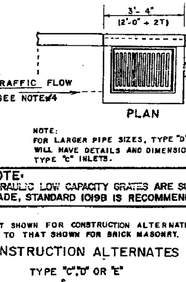
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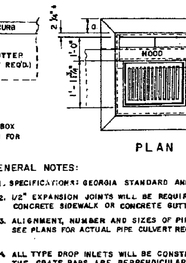
PLAN



PLAN



PLAN



SPECIAL NOTE:
STANDARD HOOD INLETS ARE FOR USE AT LOW POINTS & WHERE HYDRAULIC LOW CAPACITY GRATES ARE SUFFICIENT. WHERE HIGHER CAPACITY GRATES ARE NEEDED ON A CONTINUOUS GRADE, STANDARD 1019B IS RECOMMENDED.

GENERAL NOTES:

1. SPECIFICATIONS: GEORGIA STANDARD AND/OR SPECIAL PROVISIONS.
2. USE EXPANSION JOINTS WILL BE REQUIRED WHERE RIGID PAVEMENT, CONCRETE SIDEWALK OR CONCRETE GUTTER MEETS DROP INLETS.
3. ALIGNMENTS, NUMBER AND SIZES OF PIPES SHOWN ARE ONLY TYPICAL. SEE PLANS FOR ACTUAL AND CULVERT REQUIREMENTS.
4. ALL TYPE DROP INLETS WILL BE CONSTRUCTED (AS SHOWN) SO THAT THE THE GRATE BARS ARE PERPENDICULAR TO THE FLOW OF TRAFFIC EXCEPT ON LIMITED ACCESS PROJECTS OR WHERE BICYCLES ARE PROHIBITED.
5. BRICK MASONRY WITH CLASS "A" CONC. TOP PORTION IS SHOWN AS STANDARD CONSTRUCTION WITH ALTERNATES PERMITTED AS SHOWN. BOTTOM SLAB MAY BE 6" MIN. NON-REINFORCED CONCRETE. 8" BRICK OR 6" MIN. REINFORCED CONCRETE. SEE APPLICABLE STANDARDS FOR ALTERNATE PRECAST CONSTRUCTION.

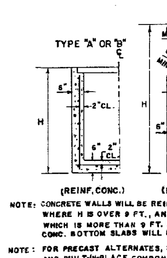
BRICK WALL THICKNESS (FOR ALL TYPE INLETS)

H	T
TO 10'	8"
TO 12'	12"
TO 20'	16"

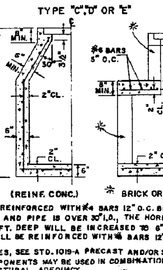
NOTE: DETAILS NOT SHOWN FOR CONSTRUCTION ALTERNATES WILL BE SIMILAR TO THAT SHOWN FOR BRICK MASONRY.

CONSTRUCTION ALTERNATES

TYPE "A" OR "B"



TYPE "C" OR "E"



(REINF. CONC.)



(REINF. CONC.)



BRICK OR 6" REINF. CONC.



NOTE: CONCRETE WALLS WILL BE REINFORCED WITH #4 BARS 12" O.C. BOTH WAYS, BOT WHERE H IS OVER 8 FT., AND PIPE IS OVER 30"ø. THE HORIZONTAL STEEL WHICH IS MORE THAN 5 FT. DEEP WILL BE INCREASED TO 8" SPACINGS. 8" CONC. BOTTOM SLABS WILL BE REINFORCED WITH #4 BARS 12" O.C. BOTH WAYS.

NOTE: FOR PRECAST ALTERNATES, SEE STD. 1019-A PRECAST ANCHOR STD. 1040, PRECAST AND MULTI-PLACE COMPONENTS MAY BE USED IN COMBINATIONS WHICH PROVIDE PROPER FITS AND STRUCTURAL ADEQUACY.

TABLE OF MINIMUM DIMENSIONS FOR DROP INLETS

TYPES "A" or "B" BRICK OR REINF. CONC.				TYPE "C" OR "D" (BRICK)						TYPE "E" (BRICK)						TYPE "C" OR "E" (REINFORCED CONCRETE)					
	W_1	W_2	H(MIN)		W_1	W_2	W_3 (MIN.)	b	H(MIN)		W_1	W_2	W_3 (MIN.)	b	H(MIN)		W_1	W_2	W_3 (MIN.)	b	H Conc.
24"	2'-1"	3'-3"	4'-0"	TYPE "C"	2'-5"	3'-0"	1'-10"	6"	3'-10"	TYPE "E"	2'-7"	3'-0"	2'-0"	6"	3'-10"	TYPE "C"	2'-7"	3'-0"	2'-0"	6"	3'-9"
30"	2'-6"	3'-9"	4'-6"		2'-8"	3'-3"	2'-1"	6"	4'-3"		2'-10"	3'-3"	2'-3"	6"	4'-3"		2'-10"	3'-3"	2'-3"	6"	4'-2"
36"	2'-11"	4'-3"	5'-0"		3'-0"	3'-6"	2'-4"	6"	4'-6"		3'-1"	3'-6"	2'-6"	6"	4'-6"		3'-1"	3'-6"	2'-6"	6"	4'-5"
42"	3'-4"	4'-9"	5'-6"		3'-3"	3'-9"	2'-7"	6"	4'-9"		3'-5"	3'-9"	2'-9"	6"	4'-9"		3'-5"	3'-9"	2'-9"	6"	4'-8"
48"	3'-9"	5'-3"	6'-0"		3'-6"	4'-0"	2'-10"	6"	5'-0"		3'-8"	4'-0"	3'-0"	6"	5'-0"		3'-8"	4'-0"	3'-0"	6"	4'-11"
"	"	"	"		3'-9"	4'-3"	3'-1"	6"	5'-3"		3'-11"	4'-3"	3'-3"	6"	5'-3"		3'-11"	4'-3"	3'-3"	6"	5'-2"
"	"	"	"		4'-0"	4'-6"	3'-4"	6"	5'-6"		4'-2"	4'-6"	3'-5"	6"	5'-6"		4'-2"	4'-6"	3'-5"	6"	5'-5"
"	"	"	"		4'-3"	4'-9"	3'-7"	6"	5'-9"		4'-5"	4'-9"	3'-8"	6"	5'-9"		4'-5"	4'-9"	3'-8"	6"	5'-8"
"	"	"	"		4'-6"	5'-0"	3'-10"	6"	6'-0"		4'-8"	5'-0"	3'-11"	6"	6'-0"		4'-8"	5'-0"	3'-11"	6"	5'-11"
"	"	"	"		4'-9"	5'-3"	4'-1"	6"	6'-3"		4'-11"	5'-3"	4'-2"	6"	6'-3"		4'-11"	5'-3"	4'-2"	6"	6'-2"
"	"	"	"		5'-0"	5'-6"	4'-4"	6"	6'-6"		5'-2"	5'-6"	4'-5"	6"	6'-6"		5'-2"	5'-6"	4'-5"	6"	6'-5"
"	"	"	"		5'-3"	5'-9"	4'-7"	6"	6'-9"		5'-5"	5'-9"	4'-8"	6"	6'-9"		5'-5"	5'-9"	4'-8"	6"	6'-8"
"	"	"	"		5'-6"	6'-0"	4'-10"	6"	7'-0"		5'-8"	6'-0"	4'-11"	6"	7'-0"		5'-8"	6'-0"	4'-11"	6"	6'-11"

NOTE: DIMENSIONS GIVEN IN TABLE BELOW ARE BASED UPON TYPICAL OUTSIDE DIAMETERS of CONCRETE PIPES WITH NORMAL COVER AND CLEARANCES. THESE DIMENSIONS MAY BE MODIFIED IF NECESSARY TO FIT ACTUAL CONDITIONS AS DIRECTED BY THE ENGINEER. MINIMUMS ARE MINIMUM EXCEPT FOR "b" WHICH IS MAXIMUM.

A CONTRACTOR SHALL SPECIFY EITHER MOUNTABLE OR NON-MOUNTABLE TO FOUNDRY IF HOOD IS REQUIRED.

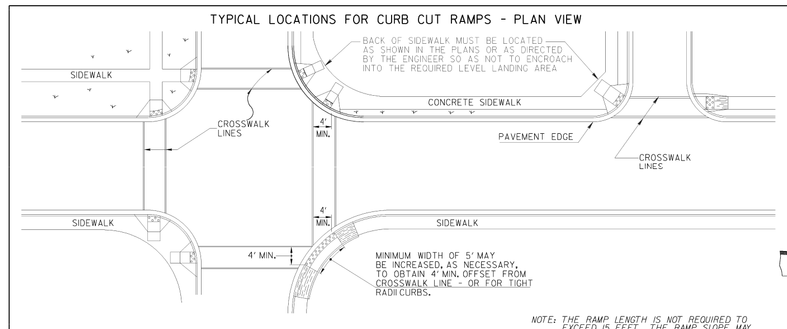
DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
STANDARD
DROP INLETS
(BUILT-IN-PLACE)

NO SCALE — REV. & REISS. APRIL, 1981 — NUMBER 1019A

DES. 12-51 — SUBMITTED
REV. B.B.G.
TRA. B.B.G.
CHK. B.B.G. — APPROVED

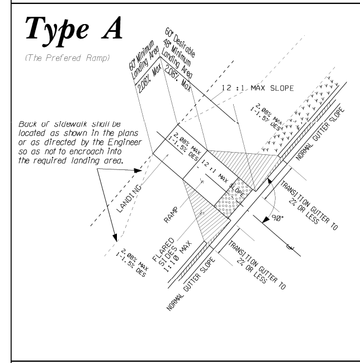
STATE ROAD & AIRPORT DESIGN ENGR.
STATE HIGHWAY ENGINEER

TYPICAL LOCATIONS FOR CURB CUT RAMPS - PLAN VIEW



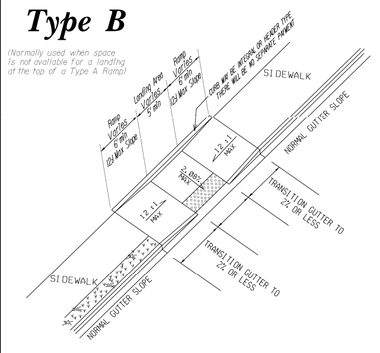
Type A

(The Preferred Ramp)



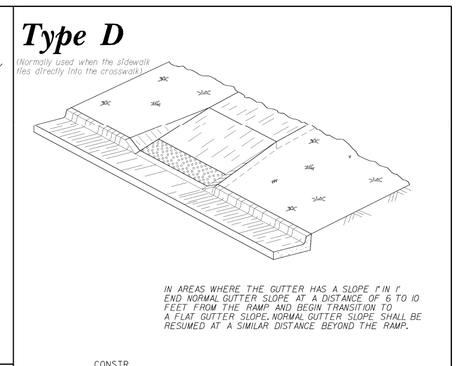
Type B

(Normally used when space is not available for a landing at the top of a Type A Ramp)



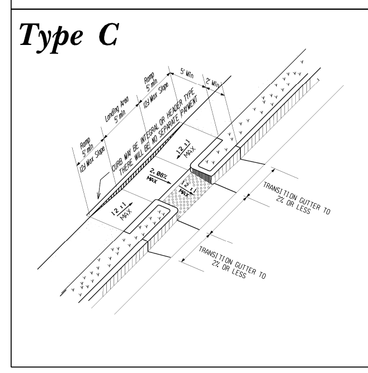
Type D

(Normally used when the sidewalk ties directly into the crosswalk)



IN AREAS WHERE THE GUTTER HAS A SLOPE OF 6' FT. END NORMAL GUTTER SLOPE AT A DISTANCE OF 6 TO 10 FEET FROM THE RAMP AND BEGIN TRANSITION TO MATCH THE CROSS SLOPE OF THE SIDEWALK. SHALL BE RESUMED AT A SIMILAR DISTANCE BEYOND THE RAMP.

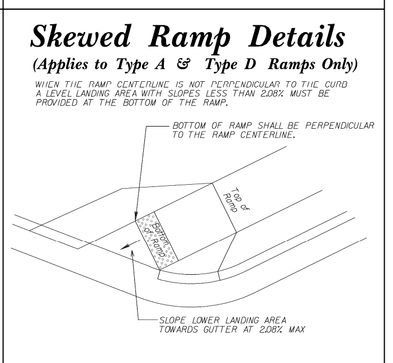
Type C



Skewed Ramp Details

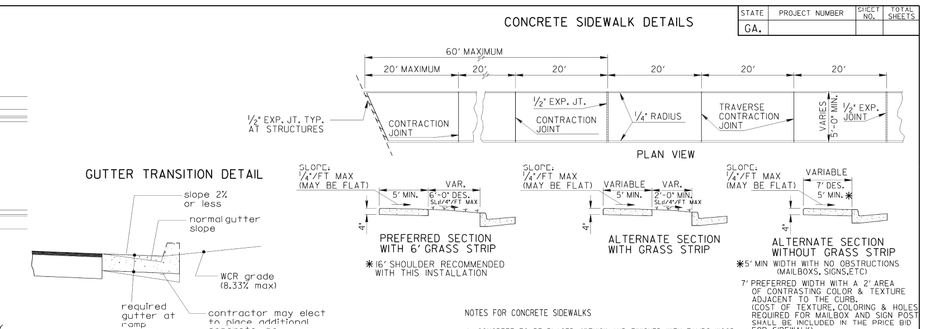
(Applies to Type A & Type D Ramps Only)

WHEN THE RAMP CENTERLINE IS NOT PERPENDICULAR TO THE CURB A LEVEL LANDING AREA WITH SLOPES LESS THAN 2.08% MUST BE PROVIDED AT THE BOTTOM OF THE RAMP.



CONCRETE SIDEWALK DETAILS

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



NOTES FOR CONCRETE SIDEWALKS

A. CONCRETE TO BE PLACED 4" THICK AND FINISHED WITH TAMPS, WOOD FLOATS AND STIFF-BRISTLE BROOM.

B. TRANSVERSE CONTRACTION JOINTS SHALL BE PLACED AT 20 FT. INTERVALS. ALL EDGES TO BE ROUNDED TO ¼" RADIUS.

C. ½" EXPANSION JOINTS SHALL BE PLACED, WHERE SIDEWALKS TIE INTO A STRUCTURE OR TERMINATE AT CURB, RAMPS OR DRIVEWAYS AND AT 60' INTERVALS.

NOTES FOR CURB CUT RAMPS:

1. CURB CUT RAMPS WILL BE LOCATED AS FOLLOWS UNLESS PLANS OR CONTRACT SPECIFY OTHERWISE.
   a) AT ALL PEDESTRIAN CROSSWALKS WHERE CURB IS CONSTRUCTED OR REPLACED.
   b) WHERE THE SIDEWALK, CONCRETE OR UNPAVED, IS INTERRUPTED BY THE CURB AT TURNOUTS OR AT INTERSECTIONS.
   c) AT OTHER LOCATIONS SUCH AS HOSPITALS, NURSING HOMES, REST AREAS, ETC., WHERE THE CURB WOULD OTHERWISE BE AN OBSTRUCTION TO THE PHYSICALLY DISABLED.
2. RAMPS WILL BE CONSTRUCTED FROM CONCRETE. SPECIFICATIONS FOR RAMP WILL BE THE SAME AS FOR CONCRETE SIDEWALK. RAMPS SHALL HAVE EITHER A ROUGH OR A TEXTURED FINISH.
3. DROP INLETS ARE NOT TO BE LOCATED DIRECTLY IN FRONT OF RAMPS. CATCH BASINS SHOULD BE LOCATED AT LEAST 10 FT. FROM RAMPS WHEN FEASIBLE.
4. WHERE RAMPS ARE LOCATED IN RADII, THE DIMENSIONS SHOWN FOR RAMP WIDTHS AND TAPERS ARE MEASURED PERPENDICULAR TO THE RAMP AND NOT ALONG THE CURVE.
5. WHERE UTILITY STRUCTURES CONFLICT, WHERE SIDEWALK GEOMETRY VARIES, AT SKEWED INTERSECTIONS, OR IN OTHER SPECIAL CASES, THE RAMP DESIGNS MAY BE MODIFIED BY THE DESIGNER OR ENGINEER, PROVIDED THAT THE WIDTH REMAINS AT 5' MINIMUM (EXCLUSIVE OF FLARES) AND NO SLOPE ON THE ACCESSIBLE PART OF THE RAMP IS STEEPER THAN 12:1.
6. LIN. FT. OF CURB AND GUTTER WILL INCLUDE THE TRANSITIONED CURB IN FRONT OF RAMPS. SQ. YDS. OF CONCRETE SIDEWALK AND CONCRETE MEDIAN PAVING WILL INCLUDE RAMPS. NO ADDITIONAL PAYMENT WILL BE MADE FOR CURB RAMPS.
   NO ADDITIONAL PAYMENT WILL BE MADE FOR SAWING AND REMOVING EXISTING SIDEWALK OR CURB WHERE NECESSARY FOR RAMP CONSTRUCTION.
7. WHEN A CURB RAMP IS PLACED ON EXISTING PAVEMENT, THE PAVEMENT SHALL BE REMOVED TO PROVIDE A MINIMUM THICKNESS OF 7 INCHES OF CONCRETE AT ALL LOCATIONS. NO SEPARATE PAYMENT WILL BE MADE FOR THE REMOVAL OF THE PAVEMENT.

This Detail Replaces Ga Standard 9031W

Guidelines For Usage On Metric Projects

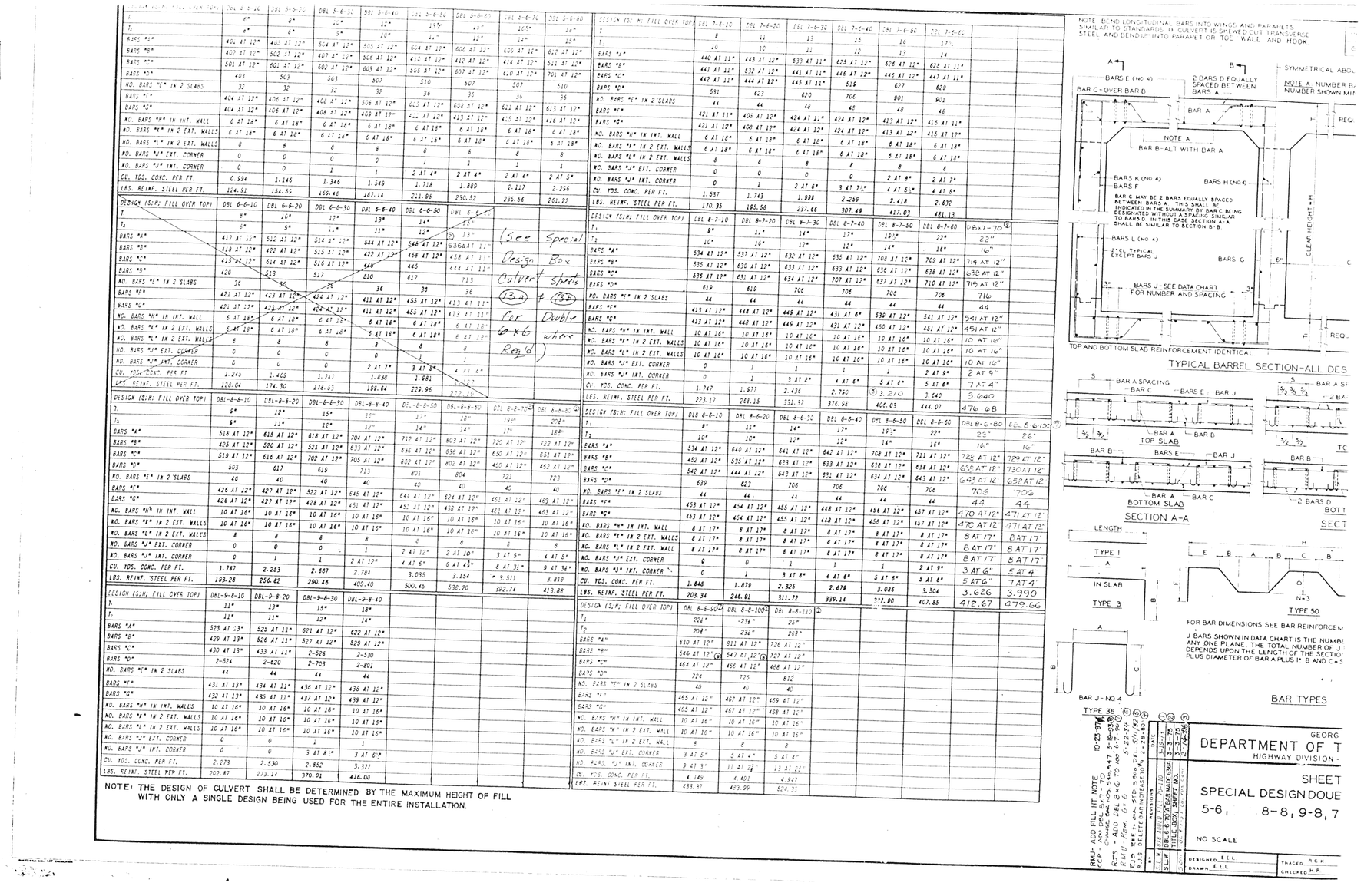
When these details are incorporated into plans and or projects that are being prepared or constructed in metric units, exact or precise conversion to metric units is not required. The dimensions shown that are in feet and inches may be converted to corresponding metric units using the following "Rounded Off" conversion factors: 1"=25mm, 4"=100mm, and 12" or 1'=300mm. All measurement notes that refer to linear feet and square yards shall be interpreted to mean linear meters and square meters.

NO.	DATE	REVISIONS
1	12/05	COMMENTS
2.	7/11	COMMENTS

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

SPECIAL DETAIL
CONCRETE SIDEWALK DETAILS
CURB CUT (WHEELCHAIR) RAMPS

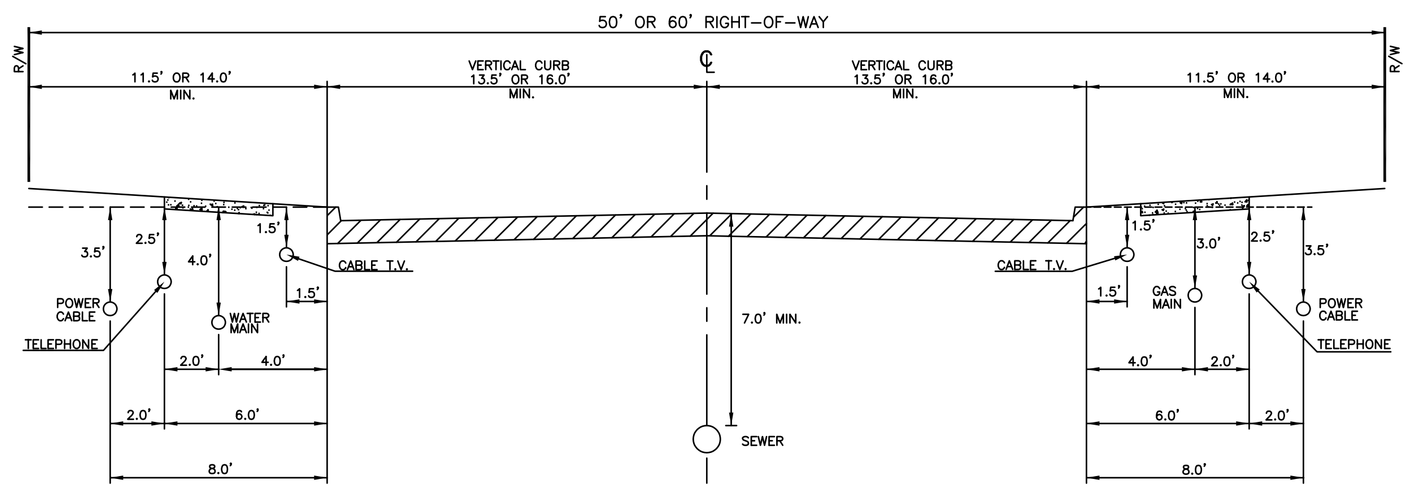
NO SCALE — MARCH 12, 2002 — A3



NOTE: THE DESIGN OF CULVERT SHALL BE DETERMINED BY THE MAXIMUM HEIGHT OF FILL WITH ONLY A SINGLE DESIGN BEING USED FOR THE ENTIRE INSTALLATION.

NORTH OR WEST

SOUTH OR EAST



NOTES:

1. THIS STANDARD DETAIL IS TO BE USED FOR UTILITY LOCATIONS WITHIN RIGHT-OF-WAY OF SUBDIVISIONS ONLY.
2. BEFORE ANY UTILITY IS INSTALLED, THE ENTIRE WIDTH OF THE RIGHT-OF-WAY SHALL BE ROUGH GRADED. SEE DEVELOPMENT REGULATIONS FOR TIMING OF WATER SYSTEM INSTALLATION.
3. IN GENERAL, THE DEEPEST UTILITIES SHOULD BE INSTALLED FIRST TO MINIMIZE ANY POSSIBLE INTERFERENCE WITH LATERALS OR SERVICE LINES.
4. IN CUL-DE-SAC OR EYEBROW TURNAROUNDS, THE DIMENSIONS FROM THE CURB SHALL VARY. HOWEVER, THE STANDARD UTILITY SPACING SHALL BE MAINTAINED.
5. BACKFILL OF ALL UTILITY TRENCHES CONSTRUCTED IN THE ROADWAY SHOULDER SHALL BE RETURNED TO 90% COMPACTION.
6. EACH UTILITY SHALL BE RESPONSIBLE FOR REPAIR OF ANY DAMAGE THEY CREATE TO OTHER UTILITY LINES, OR TO THE STREET IMPROVEMENTS WITHIN THE RIGHT-OF-WAY. NO UTILITY SHALL BE RESPONSIBLE FOR DAMAGES TO ANOTHER UTILITY WHICH IS LOCATED OUTSIDE THEIR ASSIGNED SPACE.
7. ANYONE DIGGING IN THE RIGHT-OF-WAY SHALL CALL THE "ONE CALL CENTER" AT 325-5000 TO HAVE UTILITIES LOCATED.
8. ONCE THE ROAD BASE HAS BEEN PLACED, ALL FURTHER INSTALLATION OF UTILITIES UNDER THE ROADWAY SHALL BE BORED OR OTHERWISE COMPLY WITH THE STREET CUT REQUIREMENTS OF SECTION 7.5 OF THE DEVELOPMENT REGULATIONS.

GWINNETT COUNTY
DEPARTMENT OF PLANNING & DEVELOPMENT
STANDARD DRAWING
Utility Placement in Rights-of-Way
DATE: SEPTEMBER 1993 SHEET: 501

REVISIONS

NO.	DATE	REMARKS
1	12/05	COMMENTS
2.	7/11	COMMENTS

SEAL

GEORGIA REGISTERED No. 18702 PROFESSIONAL ENGINEER PAUL S. BOYER

THIS DRAWING, AS AN INSTRUMENT OF SERVICE, IS AND SHALL REMAIN THE PROPERTY OF THE ENGINEER AND SHALL NOT BE REPRODUCED, PUBLISHED OR USED IN ANY WAY WITHOUT THE PERMISSION OF THE ENGINEER.

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AT THE SITE BEFORE PROCEEDING WITH EACH PHASE OF THE WORK.

Patton-Boyer, Inc.
LAND SURVEYORS & ENGINEERS
609 ATLANTA HWY.
GAINESVILLE, GEORGIA 30501
PHONE (770) 532 - 6492
FAX (770) 532 - 1995

CONSTRUCTION DETAILS:
FOR
NEW HORIZON PARTNERSHIP, LLC
CITY OF LOGANVILLE
WALTON COUNTY, GEORGIA
LAND LOTS 156, 157, 183, AND 184 - 4TH DISTRICT

SHEET NUMBER
C51 54
of
03-243.03 COVER

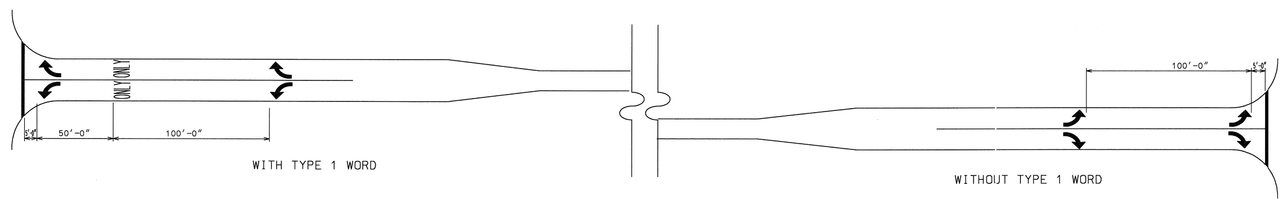
SCALE
N/A

DATE
8/12/05

PROJECT NO.
03-243.03

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

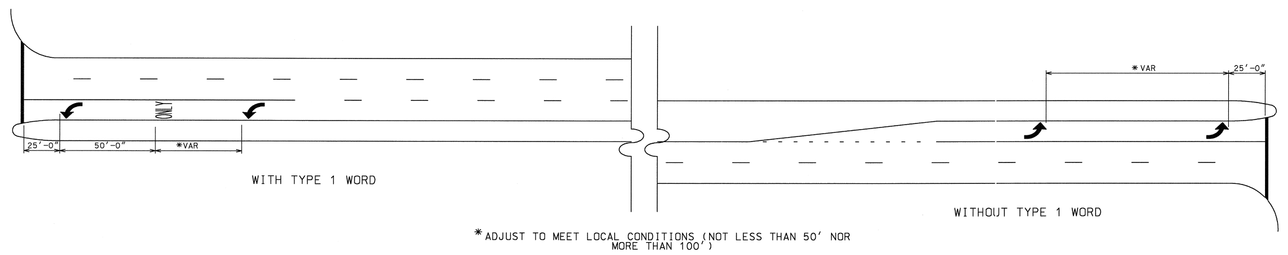
EXIT RAMPS



WITH TYPE 1 WORD

WITHOUT TYPE 1 WORD

SHORT TURN LANES

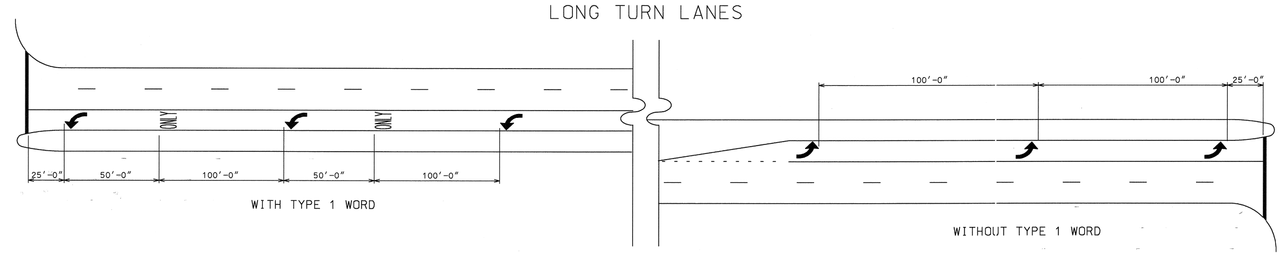


WITH TYPE 1 WORD

WITHOUT TYPE 1 WORD

*ADJUST TO MEET LOCAL CONDITIONS (NOT LESS THAN 50' NOR MORE THAN 100')

LONG TURN LANES



WITH TYPE 1 WORD

WITHOUT TYPE 1 WORD

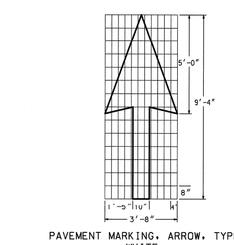
GENERAL NOTES:

1. SPACING OF TYPE 2 ARROW IS REPRESENTATIVE OF SPACING FOR TYPE 1. TYPE 3. TYPE 4. & TYPE 5 ARROWS.
2. ALL TURNING LANES SHALL HAVE A MINIMUM OF 2 ARROWS.
3. GROUND MOUNTED OR OVERHEAD SIGNING SHALL BE SUPPLEMENTED BY TYPE 1 WORD.

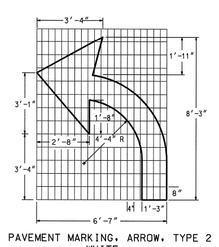
DATE	REVISIONS	GEORGIA DEPARTMENT OF TRANSPORTATION OFFICE OF TRAFFIC SAFETY & DESIGN
		DETAILS OF PAVEMENT MARKING ARROW LOCATION
		NO SCALE JANUARY 2000

T-12A

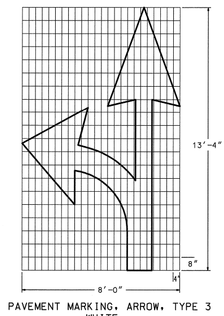
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



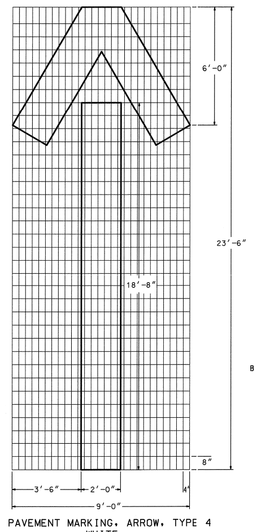
PAVEMENT MARKING. ARROW. TYPE 1
WHITE
(12.0 SQ. FT.)



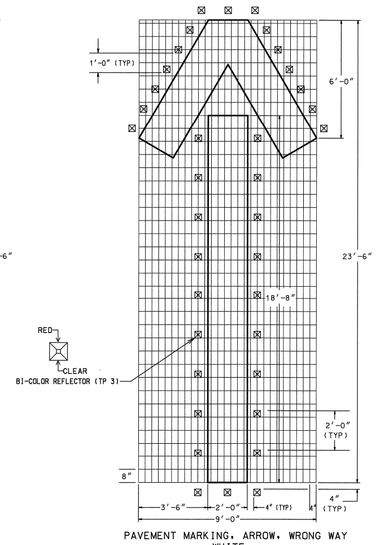
PAVEMENT MARKING. ARROW. TYPE 2
WHITE
(16.0 SQ. FT.)



PAVEMENT MARKING. ARROW. TYPE 3
WHITE
(28.5 SQ. FT.)

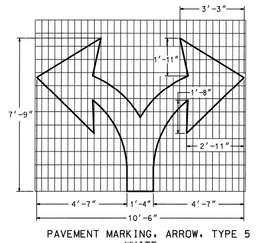


PAVEMENT MARKING. ARROW. TYPE 4
WHITE
(64.5 SQ. FT.)

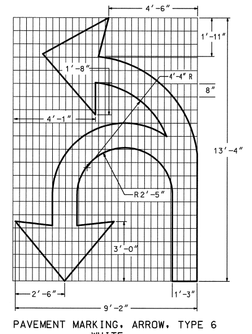


PAVEMENT MARKING. ARROW. WRONG WAY
WHITE
(64.5 SQ. FT.)

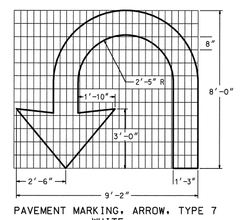
ARROW- WHITE REFLECTORIZED PAINT THERMOPLASTIC, AS SPECIFIED BY GEORGIA STANDARD SPECIFICATIONS. SECTION 665.



PAVEMENT MARKING. ARROW. TYPE 5
WHITE
(25.5 SQ. FT.)



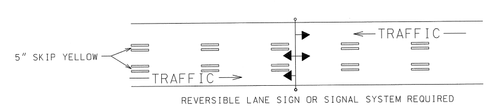
PAVEMENT MARKING. ARROW. TYPE 6
WHITE
(42.0 SQ. FT.)



PAVEMENT MARKING. ARROW. TYPE 7
WHITE
(26.0 SQ. FT.)

DATE	REVISIONS	GEORGIA DEPARTMENT OF TRANSPORTATION OFFICE OF TRAFFIC SAFETY & DESIGN
4-11-00	CHANGED LOCATION OF TP#6 ON WRONG WAY ARROW	DETAILS OF PAVEMENT MARKINGS-ARROWS
		NO SCALE JANUARY 2000

T-12B

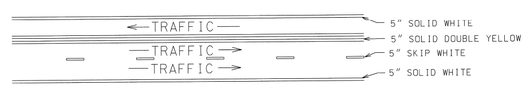


REVERSIBLE LANE SIGN OR SIGNAL SYSTEM REQUIRED

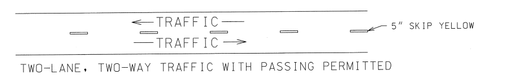
TWO-WAY TRAFFIC WITH A REVERSIBLE CENTER LANE



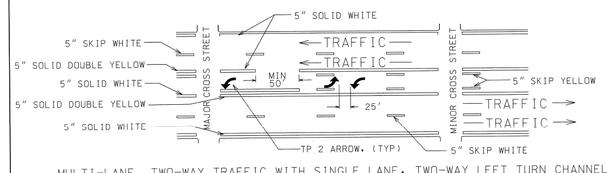
TWO-WAY TRAFFIC WHERE MOTORISTS IN A SINGLE LANE ARE PERMITTED TO PASS



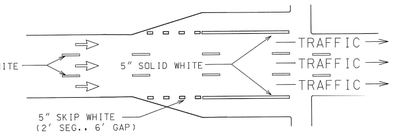
TWO-WAY TRAFFIC WHERE MOTORISTS IN A SINGLE LANE ARE NOT PERMITTED TO PASS



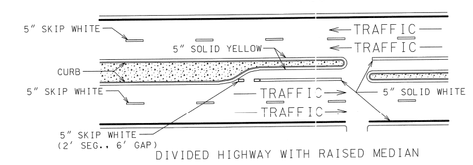
TWO-LANE, TWO-WAY TRAFFIC WITH PASSING PERMITTED



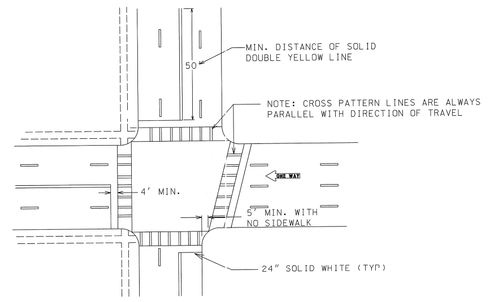
MULTI-LANE, TWO-WAY TRAFFIC WITH SINGLE LANE, TWO-WAY LEFT TURN CHANNELIZATION



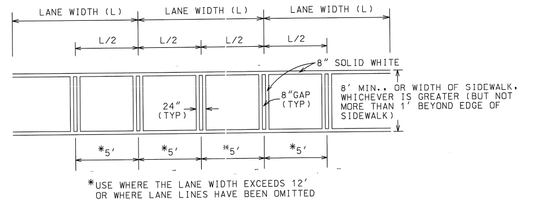
ONE-WAY TRAFFIC WITH ADDED TURN LANES



DIVIDED HIGHWAY WITH RAISED MEDIAN



TYPICAL LOCATION OF CROSSWALKS AND STOP BARS



*USE WHERE THE LANE WIDTH EXCEEDS 12' OR WHERE LANE LINES HAVE BEEN OMITTED

CROSSWALK DETAIL

GENERAL NOTES:

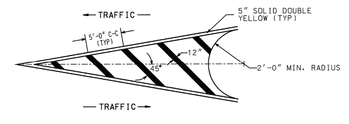
1. SPACING BETWEEEN DOUBLE LINES SHALL BE EQUAL TO THE LINE WIDTH.
2. EDGE LINES SHALL BE PLACED A MINIMUM OF 4 INCHES FROM THE NORMAL EDGE OF PAVEMENT.

DATE	REVISIONS	GEORGIA DEPARTMENT OF TRANSPORTATION OFFICE OF TRAFFIC SAFETY & DESIGN
		DETAILS OF PAVEMENT MARKING PLACEMENT NON-LIMITED ACCESS ROADWAY
		NO SCALE JANUARY 2000

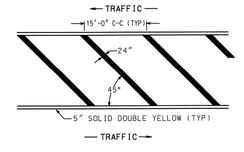
T-11A

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

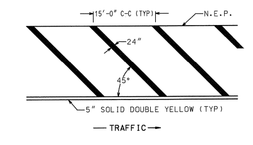
DETAIL "A" (YELLOW)



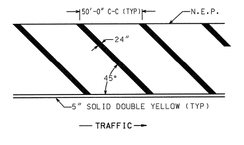
DETAIL "B" (YELLOW)



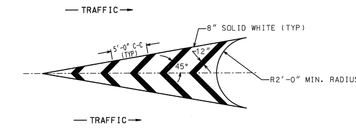
DETAIL "C" (YELLOW)



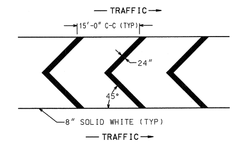
DETAIL "D" (YELLOW)



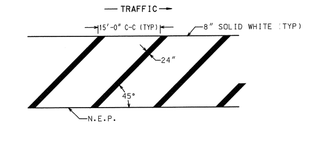
DETAIL "A" (WHITE)



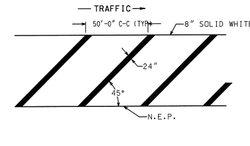
DETAIL "B" (WHITE)



DETAIL "C" (WHITE)



DETAIL "D" (WHITE)



GENERAL NOTES:

1. FOR YELLOW STRIPING. THE SQUARE YARDS SHOWN ON PLAN. SUMMARY AND DETAILED ESTIMATE SHEETS INCLUDES THE AREA WITHIN THE BORDERS. THE 5" SOLID DOUBLE YELLOW BORDERS SHALL BE SUMMARIZED AND PAID FOR SEPARATELY.
2. FOR WHITE STRIPING. THE SQUARE YARDS SHOWN ON PLAN. SUMMARY AND DETAILED ESTIMATE SHEETS INCLUDES THE AREA WITHIN THE BORDERS AS WELL AS THE 8" SOLID WHITE BORDER.

DATE	REVISIONS	GEORGIA DEPARTMENT OF TRANSPORTATION OFFICE OF TRAFFIC SAFETY & DESIGN
		DETAILS OF PAVEMENT MARKING HATCHING
		NO SCALE JANUARY 2000

T-14

REVISIONS

NO.	DATE	REMARKS
1	12/05	COMMENTS
2.	7/11	COMMENTS

SEAL

GEORGIA REGISTERED No. 18702 PROFESSIONAL ENGINEER PAUL S. BOYER

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THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AT THE SITE BEFORE PROCEEDING WITH EACH PHASE OF THE WORK.

Patton-Boyer, Inc.
LAND SURVEYORS & ENGINEERS
604 ATLANTA HWY
GAINESVILLE, GEORGIA 30501
PHONE (770) 532 - 6492
FAX (770) 532 - 1995

STRIPING DETAILS:
FOR
NEW HORIZON PARTNERSHIP, LLC
CITY OF LOGANVILLE
WALTON COUNTY, GEORGIA
LAND LOTS 156, 157, 183, AND 184 - 4TH DISTRICT

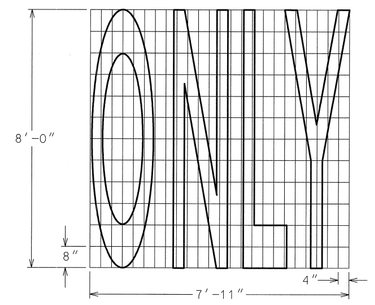
SHEET NUMBER
C52 54
of

SCALE
N/A

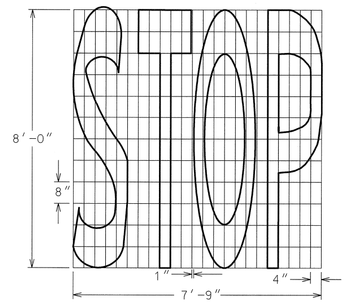
DATE
8/12/05

PROJECT NO.
03-243.03

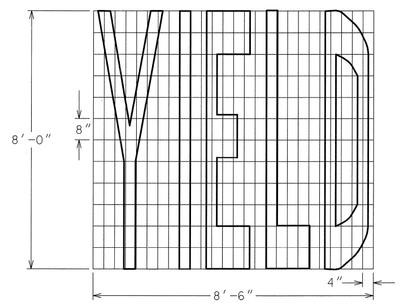
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



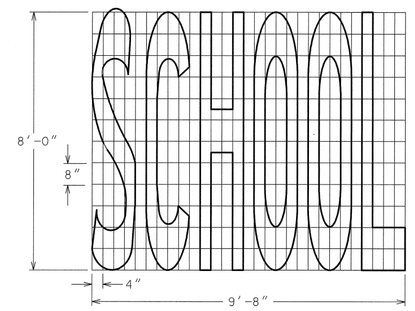
TYPE 1
AREA = 20.8 FT^2



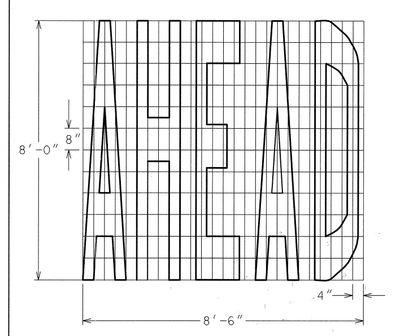
TYPE 2
AREA = 25.4 FT^2



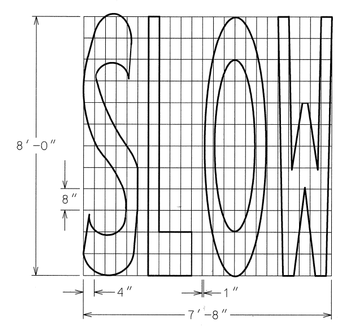
TYPE 15
AREA = 25.4 FT^2



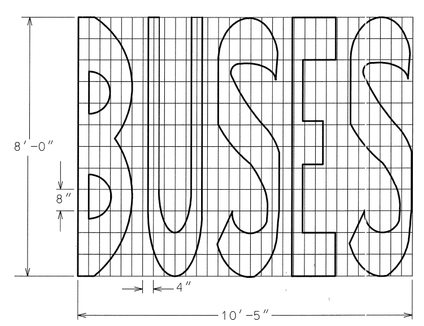
TYPE 3A
(SINGLE LANE)
AREA = 33.5 FT^2



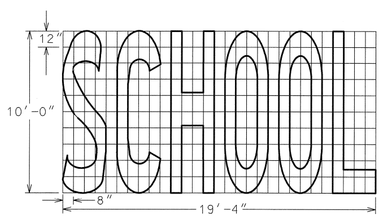
TYPE 4
AREA = 29.1 FT^2



TYPE 5
AREA = 25.4 FT^2



TYPE 6
AREA = 38.1 FT^2



TYPE 3B
(TWO LANES)
AREA = 85.0 FT^2

DATE	REVISIONS

GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF TRAFFIC SAFETY & DESIGN

DETAILS OF
PAVEMENT MARKING WORDS
SHEET 1 OF 2
NO SCALE JANUARY 2000

T-13A

T-13A

REVISIONS

NO.	DATE	REMARKS
1	12/05	COMMENTS
2.	7/11	COMMENTS

SEAL

GEORGIA
REGISTERED
No. 18702
PROFESSIONAL
ENGINEER
PAUL S. BOYER

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604 ATLANTA HWY
GAINESVILLE, GEORGIA 30501
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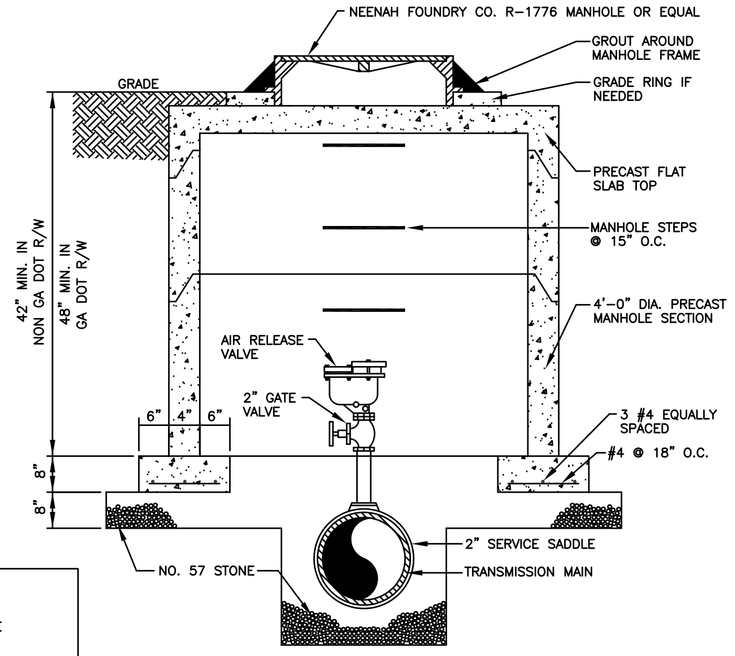
STRIPING DETAILS:
FOR
NEW HORIZON PARTNERSHIP, LLC
CITY OF LOGANVILLE
WALTON COUNTY, GEORGIA
LAND LOTS 156, 157, 183, AND 184 - 4TH DISTRICT

SHEET NUMBER
C53 54
of

SCALE
N/A

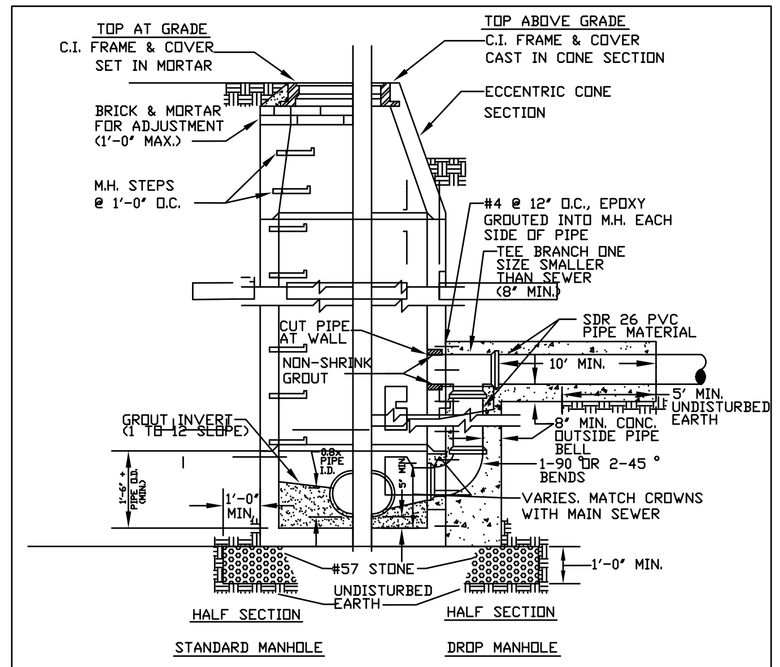
DATE
8/12/05

PROJECT NO.
03-243.03



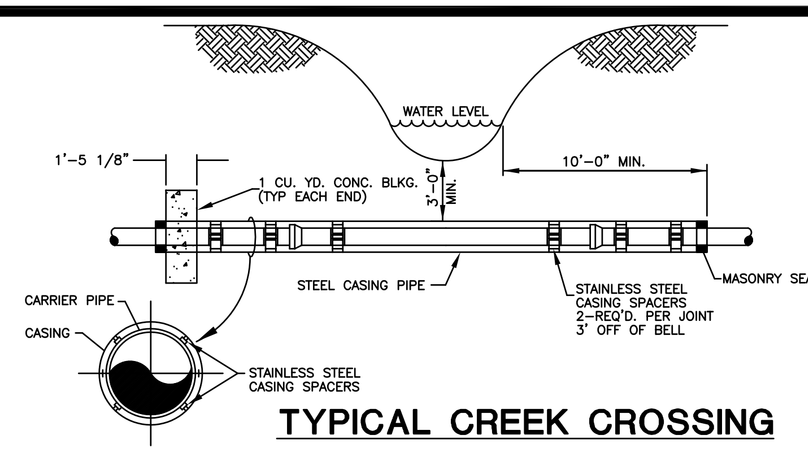
AIR RELEASE VALVE DETAIL

N.T.S.

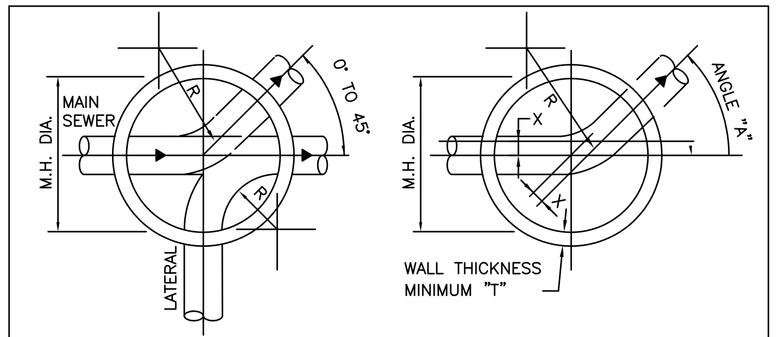


PRECAST CONCRETE MANHOLE DETAIL

NOTE:
RUBBER BOOTS REQUIRED AT ALL PIPE CONNECTIONS TO MANHOLE WITH THE EXCEPTION OF DROP CONNECTIONS.



TYPICAL CREEK CROSSING



STANDARD MANHOLE SCHEDULE OF GOVERNING DIMENSIONS

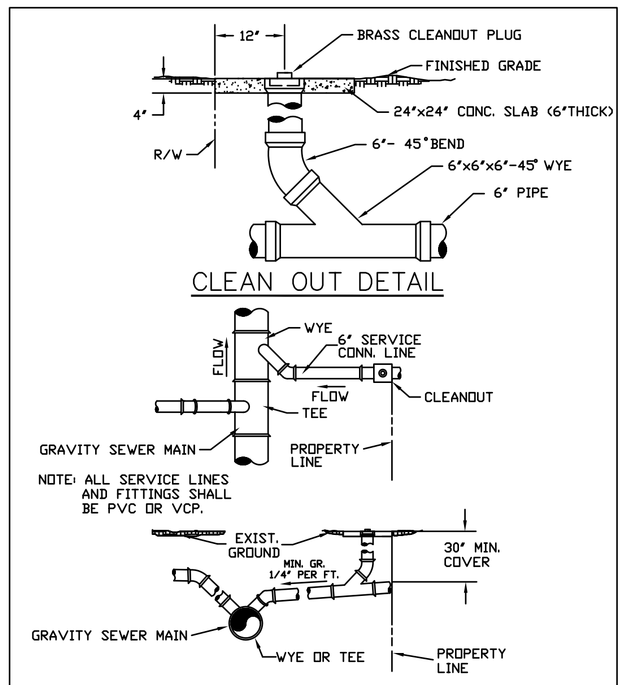
PIPE SIZE	ANGLE "A"	MH. DIA.	"T"	"X"
8" TO 12"	0° TO 90°	4'-0"	5"	0"
15" TO 18"	60° TO 90°	5'-0"	6"	6"
24" TO 36"	0° TO 90°	6'-0"	7"	0"

NOTE:
MINIMUM ℄ RADIUS (R) OF M.H. INVERT = 1.5 x PIPE DIAMETER

TYPICAL PLANS

STANDARD MANHOLE DETAIL

N.T.S.

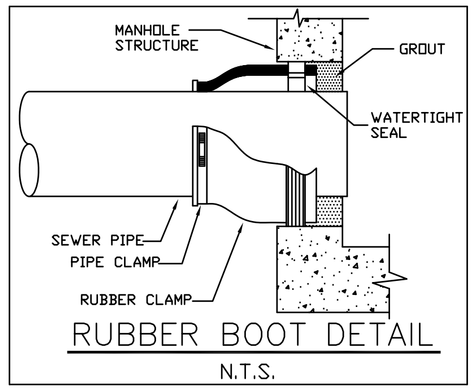


CLEAN OUT DETAIL

NOTE: ALL SERVICE LINES AND FITTINGS SHALL BE PVC OR VCP.

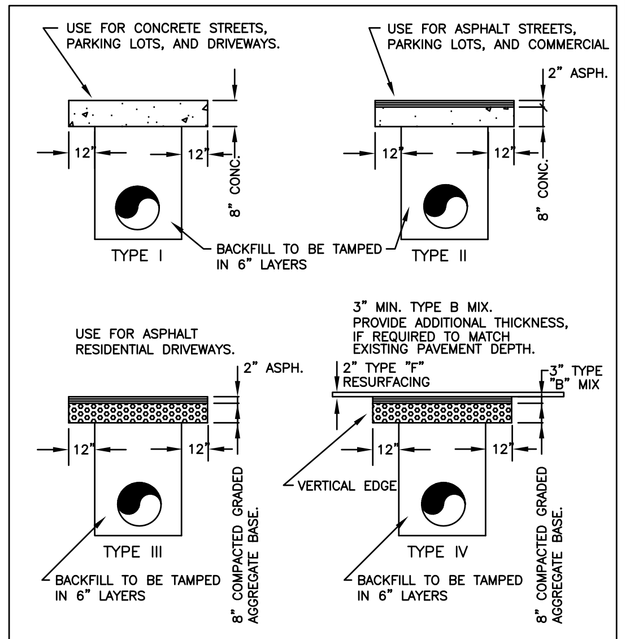
SERVICE CONNECTION DETAIL

NOTE:
CLEANOUT WITH BRASS PLUG REQUIRED AT PROPERTY LINE, RIGHT OF WAY LINE, OR EASEMENT LINE AS APPLICABLE.



RUBBER BOOT DETAIL

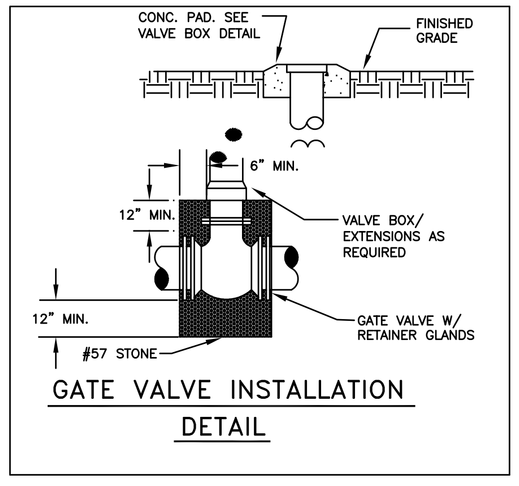
N.T.S.



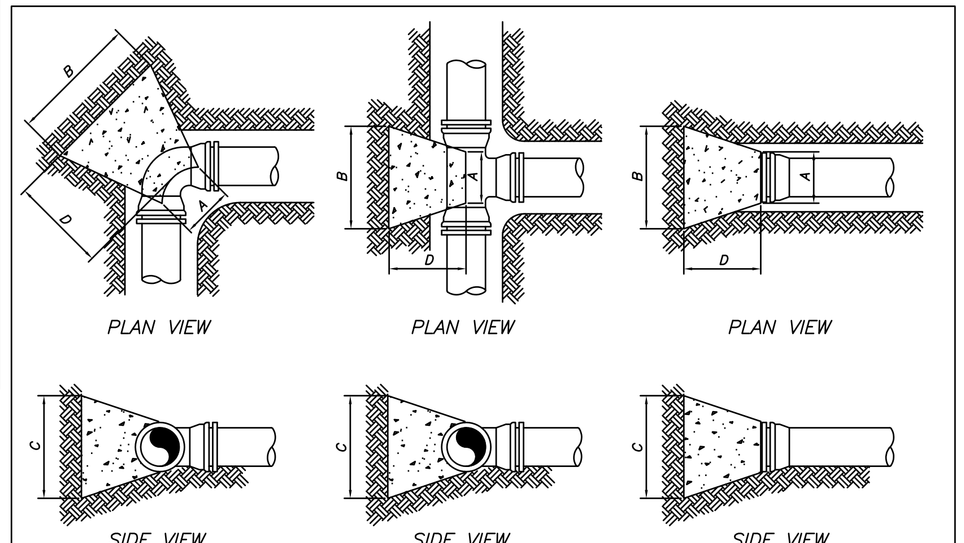
PAVEMENT REPLACEMENT DETAILS

N.T.S.

NOTE: USE 8" COMPACTED GRADED AGGREGATE BASE FOR REPLACEMENT AT GRAVEL DRIVES.



GATE VALVE INSTALLATION DETAIL

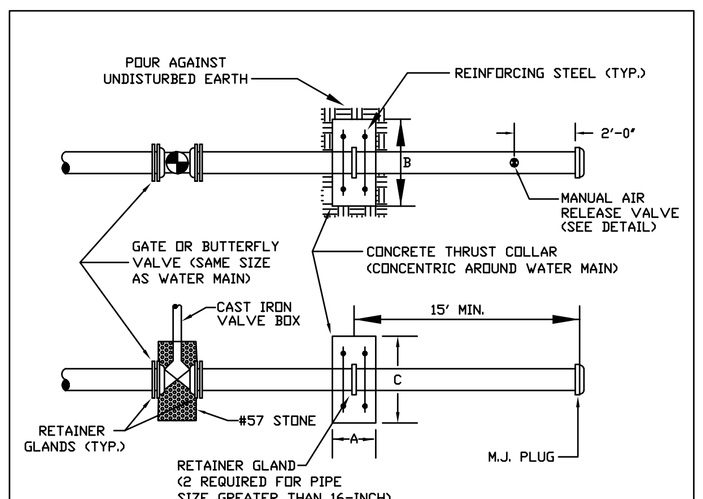


PIPE SIZE	90° BEND				45° BEND				22 1/2° BEND			
	A	B	C	D	A	B	C	D	A	B	C	D
18"	2'-0"	5'-6"	5'-6"	3'-6"	1'-0"	4'-0"	4'-3"	2'-6"	1'-3"	2'-9"	3'-0"	1'-6"
16"	1'-9"	5'-0"	5'-0"	3'-3"	1'-0"	3'-6"	3'-9"	2'-3"	1'-2"	2'-6"	2'-9"	1'-3"
14"	1'-7"	4'-3"	4'-3"	2'-8"	1'-0"	3'-0"	3'-6"	2'-0"	1'-1"	2'-3"	2'-6"	1'-3"
12"	1'-4"	3'-6"	3'-9"	2'-6"	1'-0"	2'-6"	3'-0"	2'-0"	1'-1"	2'-0"	2'-0"	1'-0"
10"	1'-3"	3'-0"	3'-3"	2'-3"	0'-9"	2'-3"	2'-6"	1'-6"	1'-0"	1'-9"	1'-9"	1'-0"
8"	1'-0"	2'-6"	2'-6"	1'-9"	0'-7"	1'-9"	2'-0"	1'-3"	1'-0"	1'-3"	1'-6"	1'-0"
6"	1'-0"	1'-9"	2'-0"	1'-6"	0'-7"	1'-6"	1'-6"	1'-0"	0'-9"	1'-3"	1'-3"	0'-9"

PIPE SIZE	11 1/4° BEND				TEE				PLUG			
	A	B	C	D	A	B	C	D	A	B	C	D
18"	1'-4"	2'-0"	2'-3"	1'-9"	2'-2"	4'-6"	4'-9"	3'-0"	2'-2"	4'-6"	4'-9"	3'-0"
16"	1'-3"	1'-9"	2'-0"	1'-6"	1'-6"	4'-0"	4'-6"	3'-0"	1'-6"	4'-0"	4'-6"	3'-0"
14"	1'-2"	1'-6"	1'-9"	1'-3"	1'-6"	3'-6"	3'-9"	2'-6"	1'-6"	3'-6"	3'-9"	2'-6"
12"	1'-2"	1'-6"	1'-6"	1'-3"	1'-3"	3'-0"	3'-3"	2'-3"	1'-3"	3'-0"	3'-3"	2'-3"
10"	1'-0"	1'-3"	1'-3"	1'-0"	1'-3"	2'-6"	2'-9"	2'-0"	1'-3"	2'-6"	2'-9"	2'-0"
8"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-0"	2'-3"	1'-6"	1'-0"	2'-0"	2'-3"	1'-6"
6"	0'-9"	0'-6"	0'-6"	0'-9"	1'-0"	1'-6"	1'-9"	1'-3"	1'-0"	1'-6"	1'-9"	1'-3"

1. THRUST BLOCKING TO BE CLASS "B" 2,000 PSI CONCRETE.
2. DIMENSIONS WERE CALCULATED USING A SOIL BEARING CAPACITY OF 2,000 PSF.
3. IF SOIL BEARING CAPACITY IS FOUND TO BE LESS THAN 2,000 PSF, THE CONTRACTOR SHALL INCREASE THESE DIMENSIONS.
4. THRUST BLOCKING SHALL BEAR AGAINST UNDISTURBED SOIL.
5. DESIGN PRESSURE = 150 PSI.

WATER LINE THRUST BLOCKING

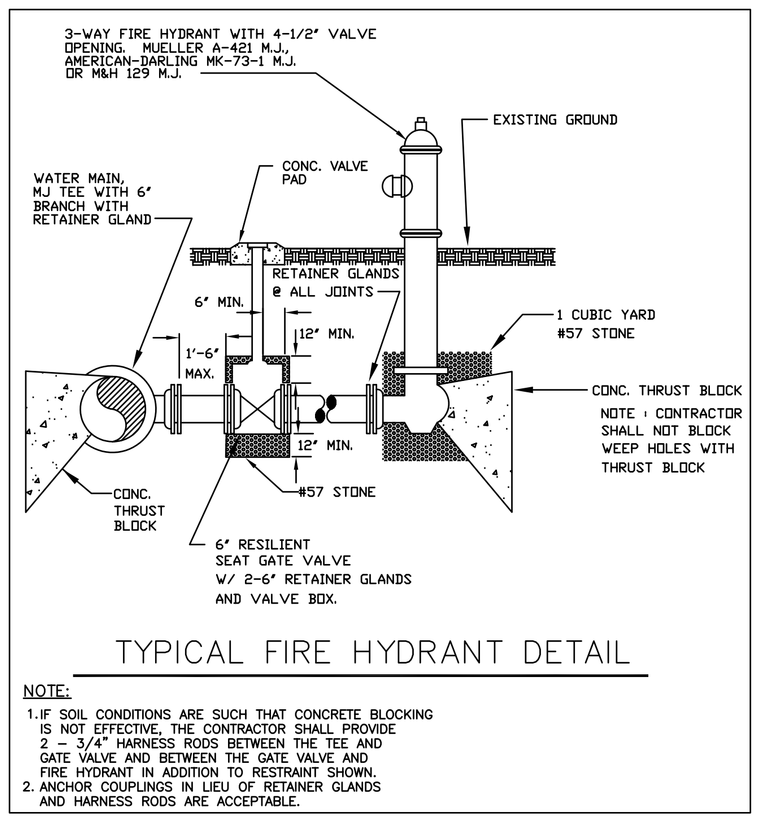


MAIN DIAMETER	CONC. COLLAR DIM.			STEEL REINFORCING
	A	B	C	
20"	1'-6"	7'-8"	7'-8"	#9 @ 12" O.C. E.W.E.F.
16"	1'-3"	6'-6"	6'-6"	#8 @ 12" O.C. E.W.E.F.
12"	1'-2"	5'-3"	5'-3"	#7 @ 12" O.C. E.W.E.F.
6" OR 8"	1'-0"	4'-0"	4'-0"	#6 @ 12" O.C. E.W.E.F.

TEST PRESSURE: 250 PSI
SOIL BEARING PRESSURE: 3000 PSF

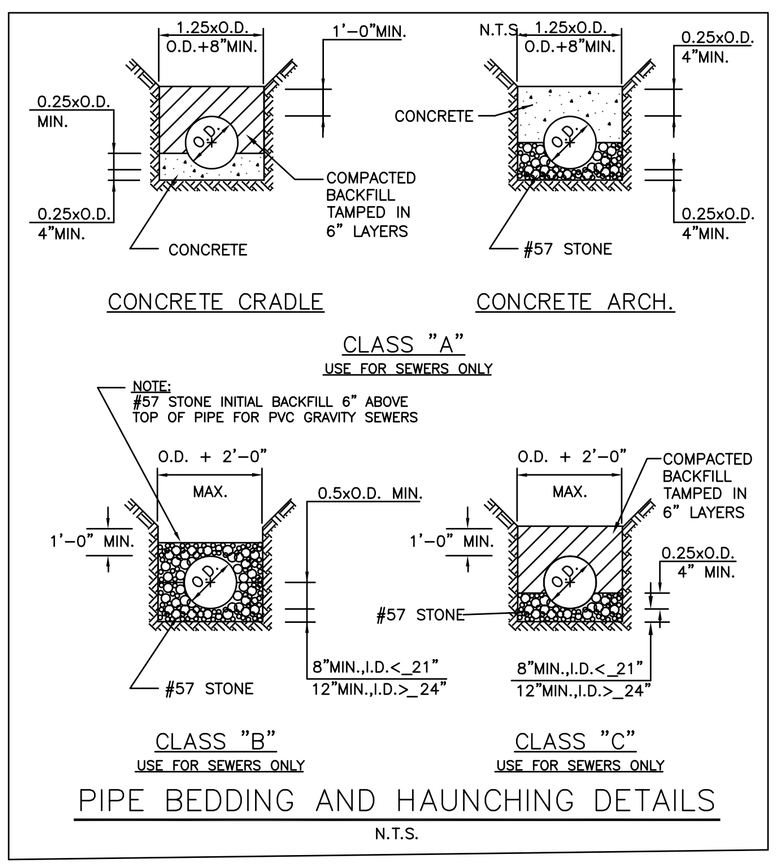
WATER MAIN TERMINATION DETAIL

NOTE:
FOR USE WHERE FUTURE WATER MAIN EXTENSION IS REQUIRED.



TYPICAL FIRE HYDRANT DETAIL

NOTE:
1. IF SOIL CONDITIONS ARE SUCH THAT CONCRETE BLOCKING IS NOT EFFECTIVE, THE CONTRACTOR SHALL PROVIDE 2 – 3/4" HARNESS RODS BETWEEN THE TEE AND GATE VALVE AND BETWEEN THE GATE VALVE AND FIRE HYDRANT IN ADDITION TO RESTRAINT SHOWN.
2. ANCHOR COUPLINGS IN LIEU OF RETAINER GLANDS AND HARNESS RODS ARE ACCEPTABLE.



PIPE BEDDING AND HAUNCHING DETAILS

N.T.S.

REVISIONS

NO.	DATE	REMARKS
1	12/05	COMMENTS
2.	7/11	COMMENTS

SEAL

GEORGIA REGISTERED No. 18702 PROFESSIONAL ENGINEER PAUL S. BOYER

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THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AT THE SITE BEFORE PROCEEDING WITH EACH PHASE OF THE WORK.

Patton-Boyer, Inc.
CIVIL ENGINEERS & LAND SURVEYORS
900 ATLANTA HWY
GAINESVILLE, GEORGIA 30501
PHONE (770) 532 – 6492
FAX (770) 532 – 1995

CONSTRUCTION DETAILS: FOR
NEW HORIZON PARTNERSHIP, LLC
CITY OF LOGANVILLE
WALTON COUNTY, GEORGIA 4TH DISTRICT
LAND LOTS 156, 157, 183, AND 184 –

SHEET NUMBER
C54 54 of
03-243.03 COVER

SCALE
N/A

DATE
8/12/05

PROJECT NO.
03-243.03