

ARDREY CHASE

CITY OF CHARLOTTE, MECKLENBURG COUNTY, N.C.



<http://development.charmeck.org>

Need detailed PE sealed sheet pile retaining wall drawings prior to construction; also need PE sealed shop drawings for Conspan prior to installation

ENGINEERING
PCO / DETENTION / DRAINAGE PLAN

EROSION CONTROL
NOTE: SCHEDULE PRE-CONSTRUCTION MEETING AT LEAST 48 HRS. PRIOR TO ANY LAND DISTURBING ACTIVITY USING THE ONLINE FORM AT <http://development.charmeck.org>

URBAN FORESTRY
TREE ORDINANCE

CDOT

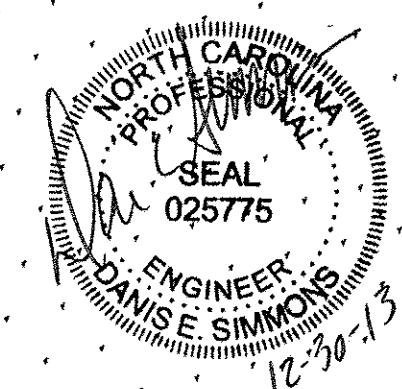
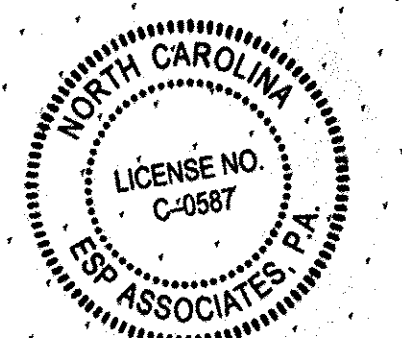
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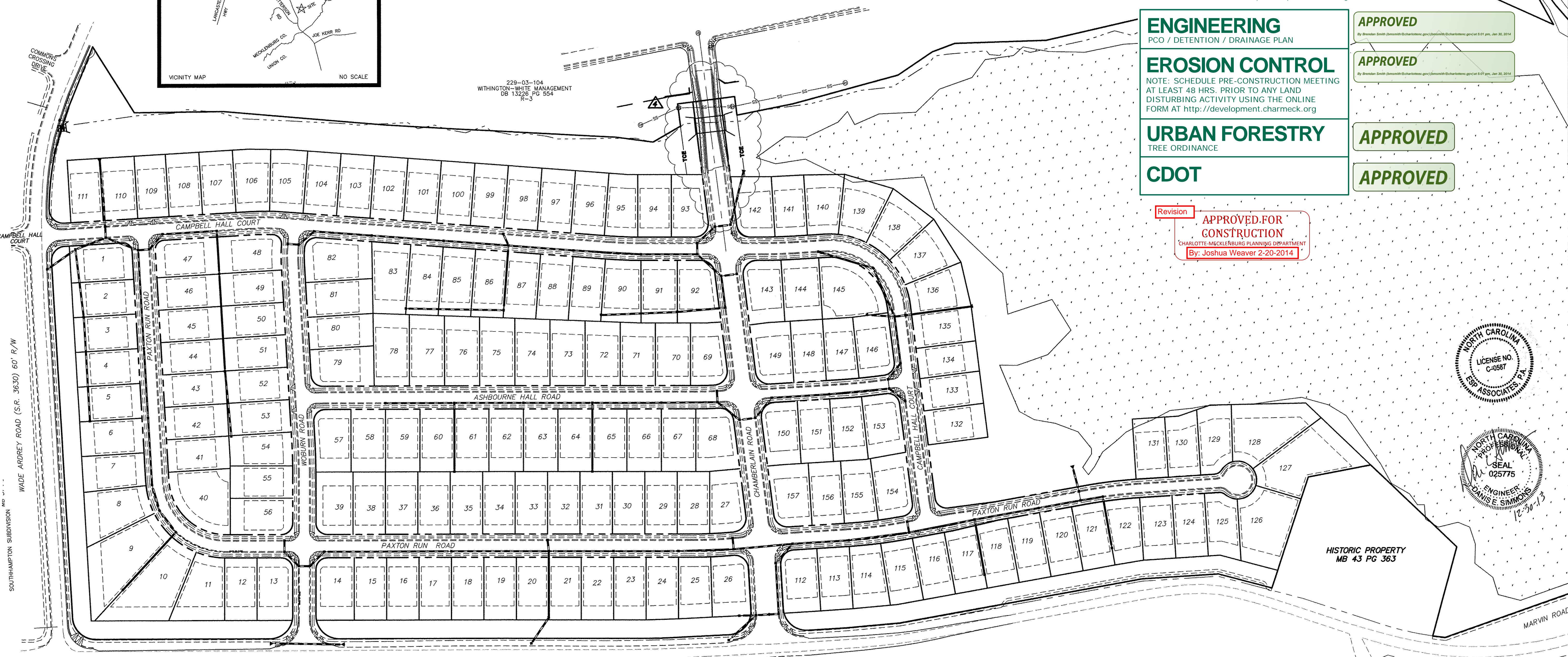
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Revision
APPROVED FOR CONSTRUCTION
CHARLOTTE-MECKLENBURG PLANNING DEPARTMENT
By: Joshua Weaver 2-20-2014



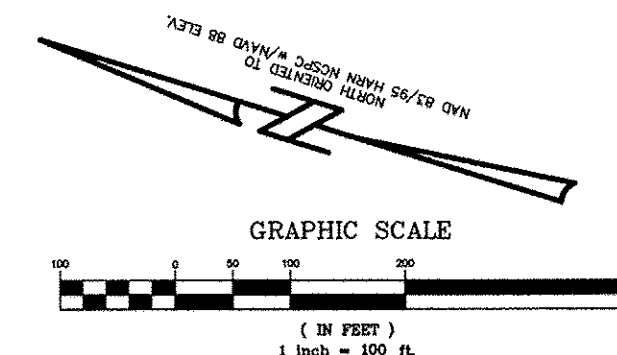
HISTORIC PROPERTY
MB 43 PG 363



ENGINEERING FIRM:
PLANS PREPARED BY: ESP ASSOCIATES, P.A.
ADDRESS: P.O. BOX 7030 CHARLOTTE, NC 28241
PHONE: (704) 583-4949

DEVELOPER
ADDRESS: CENTEX HOMES
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CHARLOTTE, NC 28226
PHONE: (704) 543-4922

MARVIN ROAD (S.R. 3635) 60' R/W



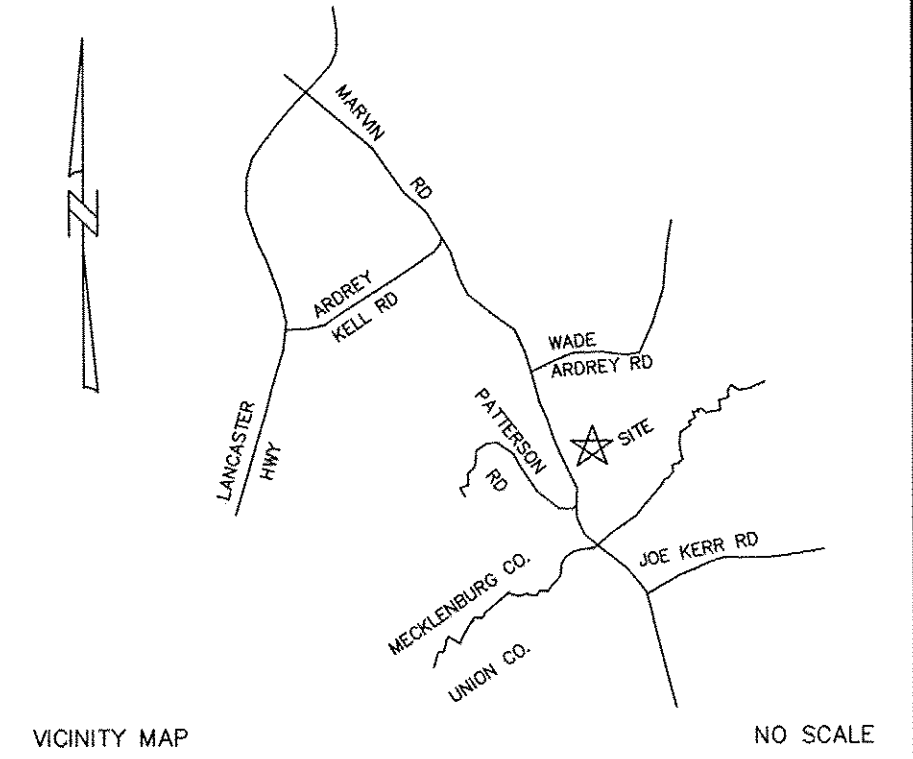
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SHEET NO. 3 OVERALL SITE PLAN (100 SCALE)	12/16/13
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SHEET NO. 9 OVERALL GRADING PLAN	12/16/13
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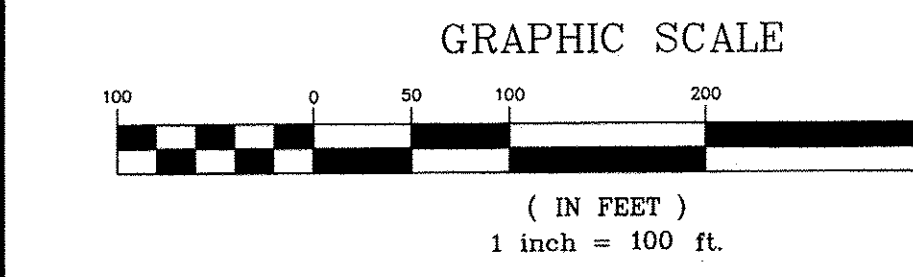
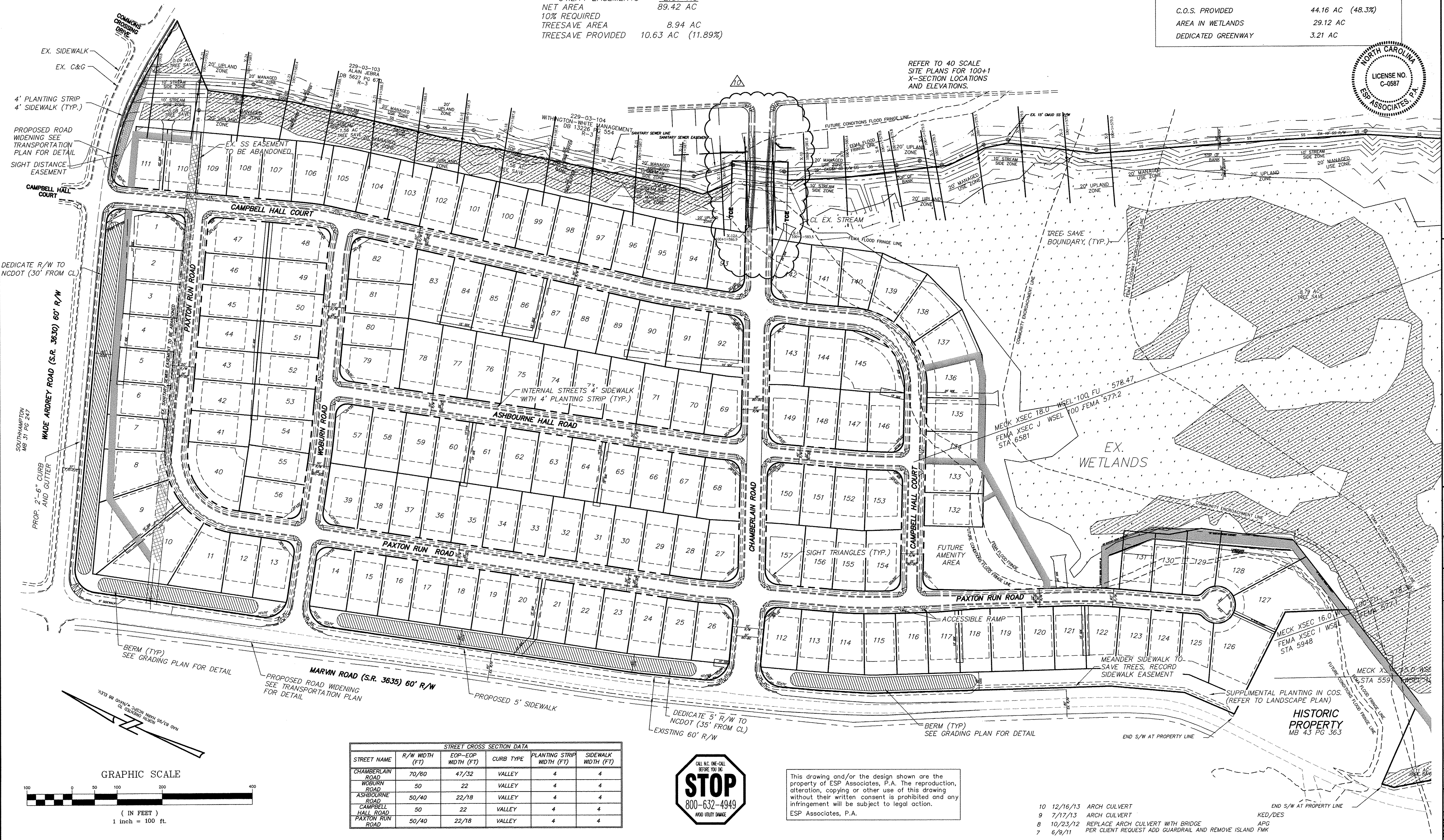
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SHEET NO. 74 MARVIN ROAD TRAFFIC CONTROL PHASE II	10/12/06



ARDREY CHASE
SHEET 1
TG21.400 - COVER.DWG



NO SCALE



STREET CROSS SECTION DATA					
STREET NAME	R/W WIDTH (FT)	EOP-EOP WIDTH (FT)	CURB TYPE	PLANTING STRIP WIDTH (FT)	SIDEWALK WIDTH (FT)
CHAMBERLAIN ROAD	70/60	47/32	VALLEY	4	4
WOBBURN ROAD	50	22	VALLEY	4	4
ASHBOURNE ROAD	50/40	22/18	VALLEY	4	4
CAMPBELL HALL ROAD	50	22	VALLEY	4	4
PAXTON RUN ROAD	50/40	22/18	VALLEY	4	4

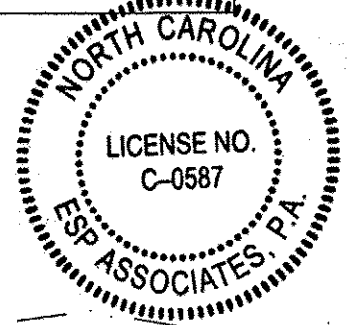


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- 10 12/16/13 ARCH CULVERT
- 9 7/17/13 ARCH CULVERT
- 8 10/23/12 REPLACE ARCH CULVERT WITH BRIDGE
- 7 6/9/11 PER CLIENT REQUEST ADD GUARDRAIL AND REMOVE ISLAND FMK

TREE SAVE DATA	
TOTAL SITE AREA	91.49 AC
-UTILITY EASEMENTS	2.07 AC
NET AREA	89.42 AC
10% REQUIRED TREESAVE AREA	8.94 AC
TREESAVE PROVIDED	10.63 AC (11.89%)

SITE DATA	
ZONING DISTRICT	R-3 CLUSTER
PROJECT SITE AREA	91.49 ACRES
TOTAL NO OF PROPOSED LOTS	157 LOTS
TAX PARCEL ID#S	229-031-02 229-031-13 229-031-01 229-031-05
MINIMUM LOT AREA	8,000 SQ. FT.
TYPICAL LOT SIZE	70' X 135'
MINIMUM LOT WIDTH	70'
FRONT SETBACK	20'
SIDE YARD	5' (10' CORNER)
REAR YARD	30' (45' EXTERNAL)
BUILDING HEIGHT	40'
TREE SAVE PROVIDED (SEE TREE SAVE DATA)	10.63 AC (11.89%)
G.O.S. PROVIDED	44.16 AC (48.3%)
AREA IN WETLANDS	29.12 AC
DEDICATED GREENWAY	3.21 AC



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OVERALL SITE PLAN

ARDREY CHASE

ENGINEER
DANIEL C. SIMMONS
SEAL 025775
NORTH CAROLINA PROFESSIONAL ENGINEER

NO.	DATE	REVISION	BY
1	2/20/06	REVIEW COMMENTS	PSC
2	4/24/06	REVIEW COMMENTS	SKF
3	08/08/06	REVIEW COMMENTS	PSC
4	8/23/06	REVIEW TREE SAVE DATA	PSC
5	5/22/07	REVIEW ROAD NAMES PER CHMC - CHAMBERLAIN, CAMPBELL HALL COURT AND ASHBOURNE HALL ROAD	LWH
6	4/23/08	ADDED STORM, SIGHT DISTANCE EASEMENT AND FUTURE AMENITY AREA	NH

3

PROJECT NO. 10221-400
SCALE 1"=100'
DATE 10/11/05
DRAWN BY JTW
CHECKED BY LWH
SHEET NO. 3

10221-400 - Wade Ardrey (1021-400) (revised Plan Sheets 10-26-13) 10221-400 - SITEWORK, OVERALL SITE-01, paper
X 10221-400 - Wade Ardrey (1021-400) (revised Plan Sheets 10-26-13) 10221-400 - SITEWORK, OVERALL SITE-01, paper



RETAINING WALL NOTES:

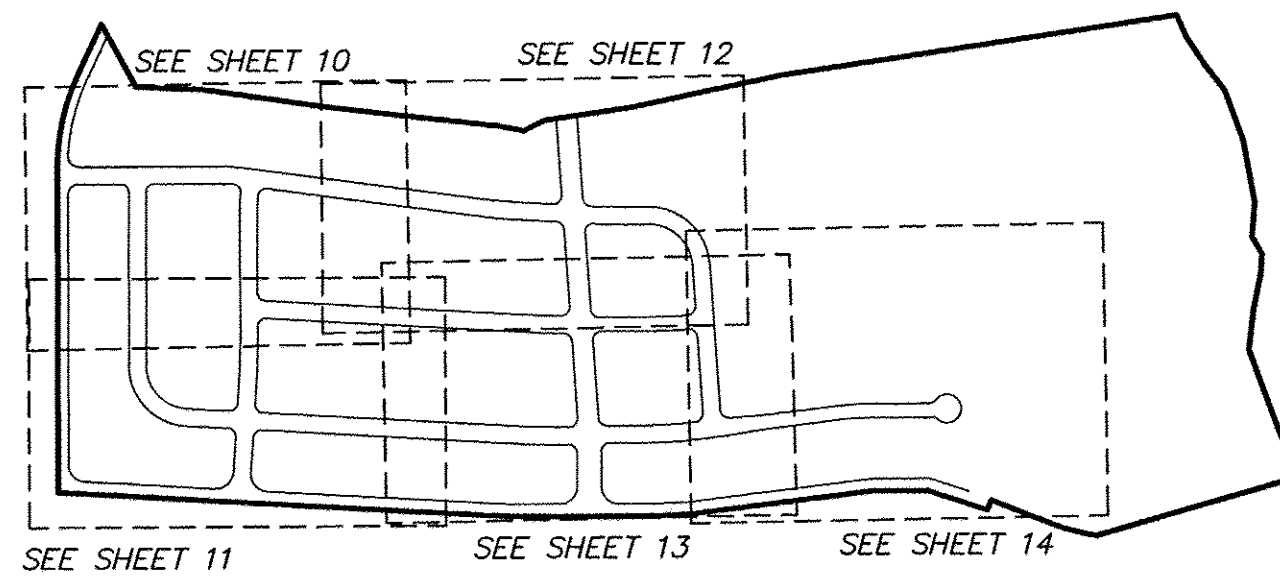
1. RETAINING WALL DESIGN BY CONTRACTOR. DESIGN OF ALL RETAINING WALLS IS TO BE PER NC BUILDING CODE SECTION 1610.3 AND PERFORMANCE SPECIFICATIONS.
2. CONTRACTOR SHALL PROVIDE DETAILED RETAINING WALL DESIGN DRAWINGS SEALED BY A NC LICENSED ENGINEER, SHALL BE PREPARED PRIOR TO CONSTRUCTION AND WILL BE SUBMITTED TO THE LOCAL AUTHORITY PRIOR TO CONSTRUCTION FOR APPROVAL.
3. CONTRACTOR SHALL PROVIDE A NC LICENSED ENGINEER TO PERFORM CONSTRUCTION OBSERVATION, VERIFYING IN A SEALED LETTER TO THE LOCAL AUTHORITY THAT RETAINING WALLS ARE CONSTRUCTED PER THE ENGINEERED DRAWINGS, IN COMPLIANCE WITH SECTION 1610.3 OF THE NC BUILDING CODE. CONTRACTOR SHALL OBTAIN BUILDING PERMIT FOR RETAINING WALL CONSTRUCTION.
4. PE SEALED SHOP DRAWINGS FOR RETAINING WALLS MUST BE SUBMITTED TO CITY ENGINEER PRIOR TO CONSTRUCTION.

TREE PROTECTION

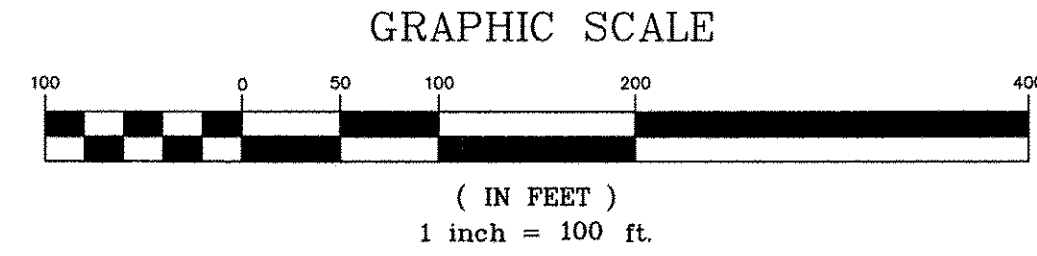
1. TREE PROTECTION FENCE/BARRICADES MUST MEET OR EXCEED TREE ORDINANCE GUIDELINES STANDARDS.
2. TREE PROTECTION FENCE/BARRICADES MUST BE INSTALLED BEFORE ANY DEMOLITION/CLEARING/GRADING/CONSTRUCTION, AND NOT REMOVED UNTIL AFTER AN INSPECTION BY URBAN FORESTRY STAFF.
3. NO SOIL DISTURBANCE OR COMPACTION, CONSTRUCTION MATERIALS, TRAFFIC, BURIAL PITS, TRENCHING OR OTHER LAND DISTURBING ACTIVITY ALLOWED IN TREE SAVE AREAS.
4. VIOLATIONS OF THE TREE PROTECTION REQUIREMENTS ARE SUBJECT TO FINES, AND/OR IMMEDIATE CORRECTIVE ACTION/MITIGATION.
5. URBAN FORESTER, GARY TURNER AT 704-336-4330, MUST BE NOTIFIED OF THE PRE-CONSTRUCTION MEETING.

S.W.I.M. NOTES

1. THE STREAMSIDE ZONE OF THE BUFFER MUST BE LEFT COMPLETELY UNDISTURBED. IN THE MANAGED USE ZONE, AT A LIMITED NUMBER OF TREES CAN BE REMOVED PROVIDED THAT THE TREE DENSITY REMAINING IS A MINIMUM OF 8 HEALTHY TREES OF A MINIMUM 6-INCH CALIPER PER 1,000 SQUARE FEET. REMOVAL OF EXISTING VEGETATION MUST BE PERFORMED IN SUCH A MANNER AS TO PREVENT DAMAGE TO THE ROOTS OF REMAINING TREES.
2. GRADING AND OTHER LAND DISTURBING ACTIVITIES ARE ALLOWED ONLY IN THE UPLAND ZONE; HOWEVER, THESE ACTIVITIES MUST BE PERFORMED IN SUCH A MANNER AS TO PREVENT DAMAGE TO THE ROOTS OF REMAINING TREES. GRASS OR OTHER SUITABLE GROUND COVER CAN BE APPLIED TO THE UPLAND ZONE.
3. THE OUTSIDE BOUNDARY OF THE BUFFER MUST BE CLEARLY MARKED WITH ORANGE FABRIC FENCING PRIOR TO ANY LAND DISTURBING ACTIVITIES (GRADING, TREE CUTTING OR STUMPING, ETC.).
4. THE OUTSIDE BOUNDARY OF THE STREAM BUFFER MUST BE PERMANENTLY MARKED WITH AN IRON PIN OR OTHER ACCEPTABLE PROPERTY CORNER MARKER AT STREET CROSSINGS AND THIS MARKER MUST BE CALLED OUT ON THE PLANS.



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NO.	DATE	REVISION	BY
12	12/16/13	ARCH CULVERT	BAM
11	7/17/13	ARCH CULVERT	KED/DES
10	10/23/12	REPLACED ARCH CULVERT WITH BRIDGE	APG
9	6/09/11	PER CLIENT REQUEST ADD GUARDRAIL AND REMOVE ISLAND	FMK
8	4/03/08	ADDED STORM 112B,112A,802,801,800 ADDED 15' SDE TO STORM 800-802	NJH
7	1/28/08	REPLACE BRIDGE WITH ARCH CULVERT	JKK
NO.	DATE	REVISION	BY

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CLIENT
OVERALL GRADING PLAN
SHEET TITLE
PROJECT
DRAWING
OVERALL GRADING
AROREY CHASE
CHARLOTTE (ETJ), N.C.

BY	DATE	REVISION
PSC	2/20/06	REVIEW COMMENTS
SKF	3/23/06	DEVELOPER COMMENTS
PSC	4/24/06	REVIEW COMMENTS
PSC	8/23/06	DEVELOPER COMMENTS
PSC	3/23/07	REVISED GRADES ALONG MARVIN AND WADE AROREY ROADS
JKK	7/6/07	REPLACE ARCH CULVERT WITH BRIDGE

PROJECT NO. 1021.400
SCALE 1"=100'
DATE 10/11/05
DRAWN BY JTW
CHECKED BY BAK
SHEET NO. 9

S.W.I.M. NOTES

1. THE STREAMSIDE ZONE OF THE BUFFER MUST BE LEFT COMPLETELY UNDISTURBED. IN THE MANAGED USE ZONE, AT A LIMITED NUMBER OF TREES CAN BE REMOVED PROVIDED THAT THE TREE DENSITY REMAINING IS A MINIMUM OF 8 HEALTHY TREES OF A MINIMUM 6-INCH CALIPER PER 1,000 SQUARE FEET. REMOVAL OF EXISTING VEGETATION MUST BE PERFORMED IN SUCH A MANNER AS TO PREVENT DAMAGE TO THE ROOTS OF REMAINING TREES.

2. GRADING AND OTHER LAND DISTURBING ACTIVITIES ARE ALLOWED ONLY IN THE UPLAND ZONE; HOWEVER, THESE ACTIVITIES MUST BE PERFORMED IN SUCH A MANNER AS TO PREVENT DAMAGE TO THE ROOTS OF REMAINING TREES. GRASS OR OTHER SUITABLE GROUND COVER CAN BE APPLIED TO THE UPLAND ZONE.

3. THE OUTSIDE BOUNDARY OF THE BUFFER MUST BE CLEARLY MARKED WITH ORANGE FABRIC FENCING PRIOR TO ANY LAND DISTURBING ACTIVITIES (GRADING, TREE CUTTING OR STUMPING, ETC.).

4. THE OUTSIDE BOUNDARY OF THE STREAM BUFFER MUST BE PERMANENTLY MARKED WITH AN IRON PIN OR OTHER ACCEPTABLE PROPERTY CORNER MARKER AT STREET CROSSINGS AND THIS MARKER MUST BE CALLED OUT ON THE PLANS.

TREE PROTECTION

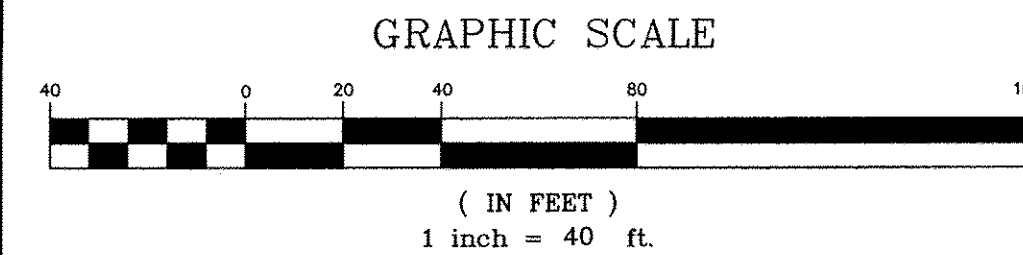
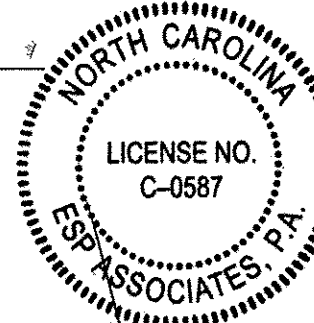
-TREE PROTECTION FENCE/BARRICADES MUST MEET OR EXCEED TREE ORDINANCE GUIDELINES STANDARDS.

-TREE PROTECTION FENCE/BARRICADES MUST BE INSTALLED BEFORE ANY DEMOLITION/CLEARING/GRADING/CONSTRUCTION, AND NOT REMOVED UNTIL AFTER AN INSPECTION BY URBAN FORESTRY STAFF.

-NO SOIL DISTURBANCE OR COMPACTION, CONSTRUCTION MATERIALS, TRAFFIC, BURIAL PITS, TRENCHING OR OTHER LAND DISTURBING ACTIVITY ALLOWED IN TREE SAVE AREAS.

-VIOLATIONS OF THE TREE PROTECTION REQUIREMENTS ARE SUBJECT TO FINES, AND/OR IMMEDIATE CORRECTIVE ACTION/MITIGATION.

-URBAN FORESTER, GARY TURNER AT 704-336-4330, MUST BE NOTIFIED OF THE PRE-CONSTRUCTION MEETING.



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GRADING PLAN (3 OF 5)

ARDREY CHASE

CHARLOTTE (ETD), N.C.

REVISIONS

NO.	DATE	REVISION	BY	CHK
1	12/16/13	ARCH CULVERT	BAM	
2	1/17/13	ARCH CULVERT	KED/DES	
3	10/23/12	REPLACED ARCH CULVERT WITH BRIDGE AND REVISED 100+1 FLOOD ELEVATIONS	APG	
4	4/3/08	REVISED RESIDUAL AT ARCH CULVERT	NJH	
5	7/6/07	REPLACE ARCH CULVERT WITH BRIDGE	JDK	
6	1/28/07	REPLACE BRIDGE WITH ARCH CULVERT	JDK	

PROJECT NO. 1021-400
SCALE 1"=40'
DATE 10/11/05
DRAWN BY JMW
CHECKED BY LNH
SHEET NO. 12

SEAL
025775
ENGINEER
MANIFEST SIMMONS
12-20-13

EROSION CONTROL NOTES

- All "Std." numbers refer to the Charlotte/Mecklenburg Land Development Standards Manual.
- On-site burial pits require an on-site demolition landfill permit from the Zoning Administrator.
- Any grading beyond the denuded limits shown on the plan is a violation of the City/County Erosion control Ordinance and is subject to a fine.
- Grading more than one acre without an approved Erosion Control Plan is a violation of the City/County Erosion Control Ordinance and is subject to a fine.
- All slopes must be seeded and mulched within 15 working days or 30 calendar days, whichever is shorter.
- All other areas, 15 working days or 21 calendar days whichever is shorter. Refer to Erosion Control Ordinance for additional requirements.
- Additional measures to control erosion and sediment may be required by a representative of the City Engineering Department.
- Slopes shall be graded no steeper than 2:1. Fill slopes greater than 10' require adequate terracing [CMLDS #30.16]
- A grading plan must be submitted for any lot grading exceeding one acre that was not previously approved.
- Temporary driveway permit for construction entrances in NCDOT right of way must be presented at pre-construction meeting.

Tree Protection

-Tree Protection fence/barricades must meet or exceed Tree Ordinance Guidelines Standards.

-Tree protection fence/barricades must be installed before any demolition/clearing/grading/construction, and not removed until after an inspection by Urban Forestry staff.

-No soil disturbance or compaction, construction materials, traffic, burial pits, trenching or other land disturbing activity allowed in tree save areas.

-Violations of the tree protection requirements are subject to fines, and/or immediate corrective action/mitigation.

-Urban forester, Gary Turner at 704-336-4330, must be notified of the pre-construction meeting.

S.W.I.M. Notes

The streamside zone of the buffer must be left completely undisturbed. In the managed use zone, at a limited number of trees can be removed provided that the tree density remaining is a minimum of 8 healthy trees of a minimum 6-inch caliper per 1,000 square feet. Removal of existing vegetation must be performed in such a manner as to prevent damage to the roots of remaining trees.

Grading and other land disturbing activities are allowed only in the upland zone; however, these activities must be performed in such a manner as to prevent damage to the roots of remaining trees. Grass or other suitable ground cover can be applied to the upland zone.

The outside boundary of the buffer must be clearly marked with orange fabric fencing prior to any land disturbing activities (grading, tree cutting or stumping, etc.).

The outside boundary of the stream buffer must be permanently marked with an iron pin or other acceptable property corner marker at street crossings and this marker must be called out on the plans.

ORIGINAL DENUDED AREA = 54.50 AC
REVISED DENUDED AREA = 0.54 AC

DENUDED LIMITS REVISED BASED ON WORK TO DATE COMPLETED. SITE WORK HAS BEEN COMPLETED EXCEPT PROPOSED BRIDGE CROSSING LOCATED WITHIN THE REVISED DENUDED LIMITS SHOWN.

LEGEND

- DENUDED LIMITS
- OUTLET RIP RAP PROTECTION
CMLDS #20.23
- TEMP. SILT DITCH
CMLDS #30.08
- TEMP. SILT FENCE
CMLDS #30.06
- HIGH HAZARD SILT FENCE
W/ ORANGE FLAGGING
- SILT FENCE STORM INLET
SEDIMENT TRAP
CMLDS #30.09
- TREE PROTECTION
FENCE
- TEMP. CONSTRUCTION
ENTRANCE
CMLDS #30.11A
- GRAVEL & RIP RAP
SEDIMENT BASIN
CMLDS #30.02 & 30.03
- RISER TYPE
SEDIMENT BASIN
CMLDS #30.01
- SB-1
- RB-1

RISER TYPE SEDIMENT BASIN DATA BLOCK										
BASIN NO.	RISER DIAMETER	BARREL DIAMETER	BARREL SLOPE	D	S	Y	H	Z	L	SEDIMENT STORAGE REQUIRED
1	36"	30"	1.11%	11.0"	6.5'	595.0	593.3	592.0	8.0'	18,886 (CF)
4	48"	36"	1.21%	10.5"	8.75'	586.9	585.2	584.0	8.0'	22,070 (CF)
5	54"	42"	1.35%	10.0"	8.0'	578.7	577.0	576.0	8.0'	19,290 (CF)
6	54"	42"	2.61%	10.35"	8.0'	578.8	577.2	576.0	8.0'	23,336 (CF)
8	48"	36"	2.64%	10.04"	9.0'	581.0	579.4	578.0	16.0'	25,278 (CF)

REMOVAL OF SEDIMENT BASIN
TO BE COORDINATED WITH
EROSION CONTROL INSPECTOR

DENUDED AREA = 54.50 AC

HIGH HAZARD SILT FENCE ANCHORED
WITH WASH STONE AND FLAGGED
WITH ORANGE TREE PROTECTION FENCE

PROP. LIMITS
OF DISTURBANCE

REVISED DENUDED LIMITS
(0.44 AC)

20' UPLAND
ZONE

20' MANAGED
USE ZONE

PROPERTY BOUNDARY
(TYP.)

20' MANAGED
USE ZONE

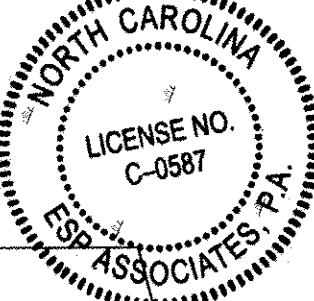
10' STREAM
SIDE ZONE

PROP. LIMITS
OF DISTURBANCE

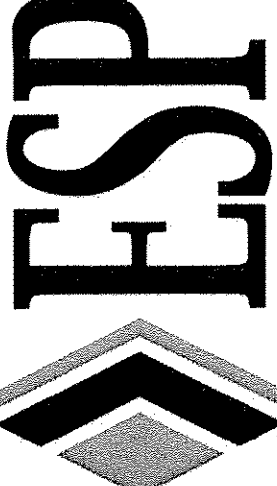
TEMP. SILT
FENCE (TYP.)

20' UPLAND
ZONE

WETLANDS



ESP Associates, P.A.
P.O. Box 7030
Charlotte, NC 28211
4321 E. 10th Ave.
Fort Mill, SC 29708
704.583.4949 (NC)
803.902.2440 (SC)
www.espassociates.com

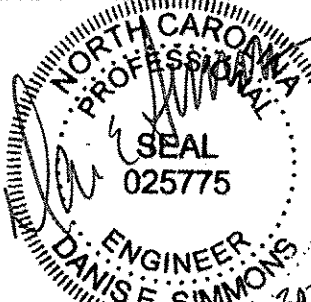


CENTEX HOMES

11121 CARMEL COMMONS BLVD.
SUITE 450
CHARLOTTE, NC 28226
(704) 543-4922

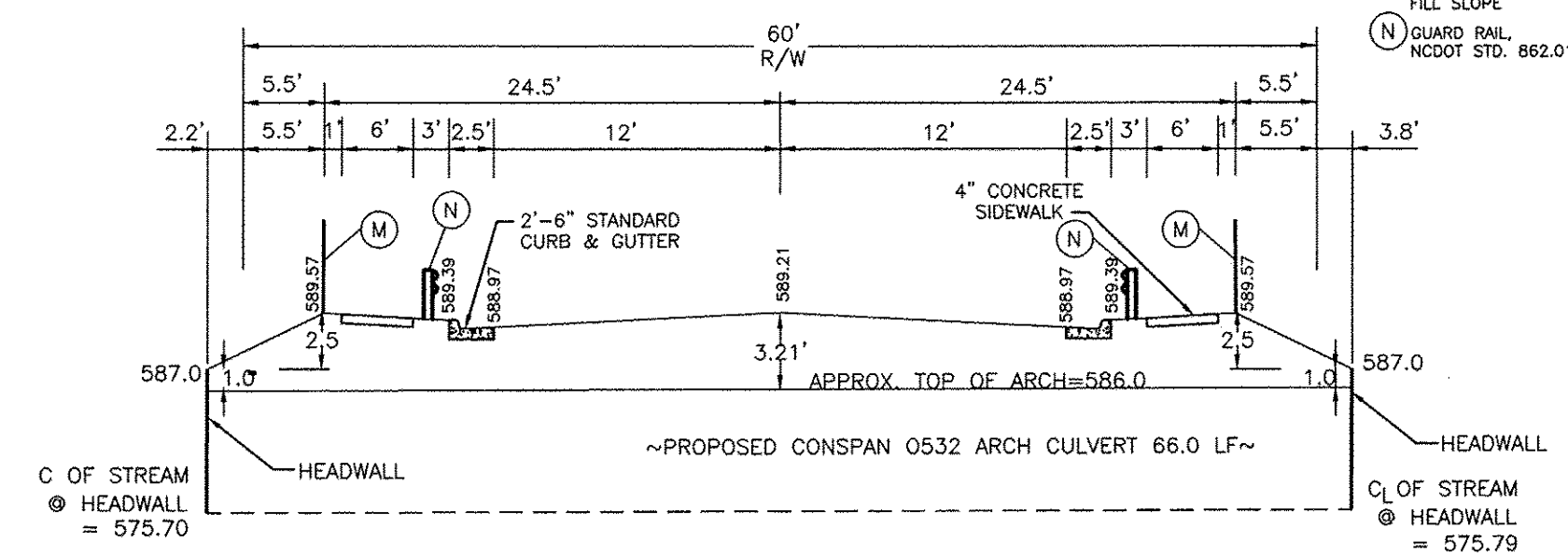
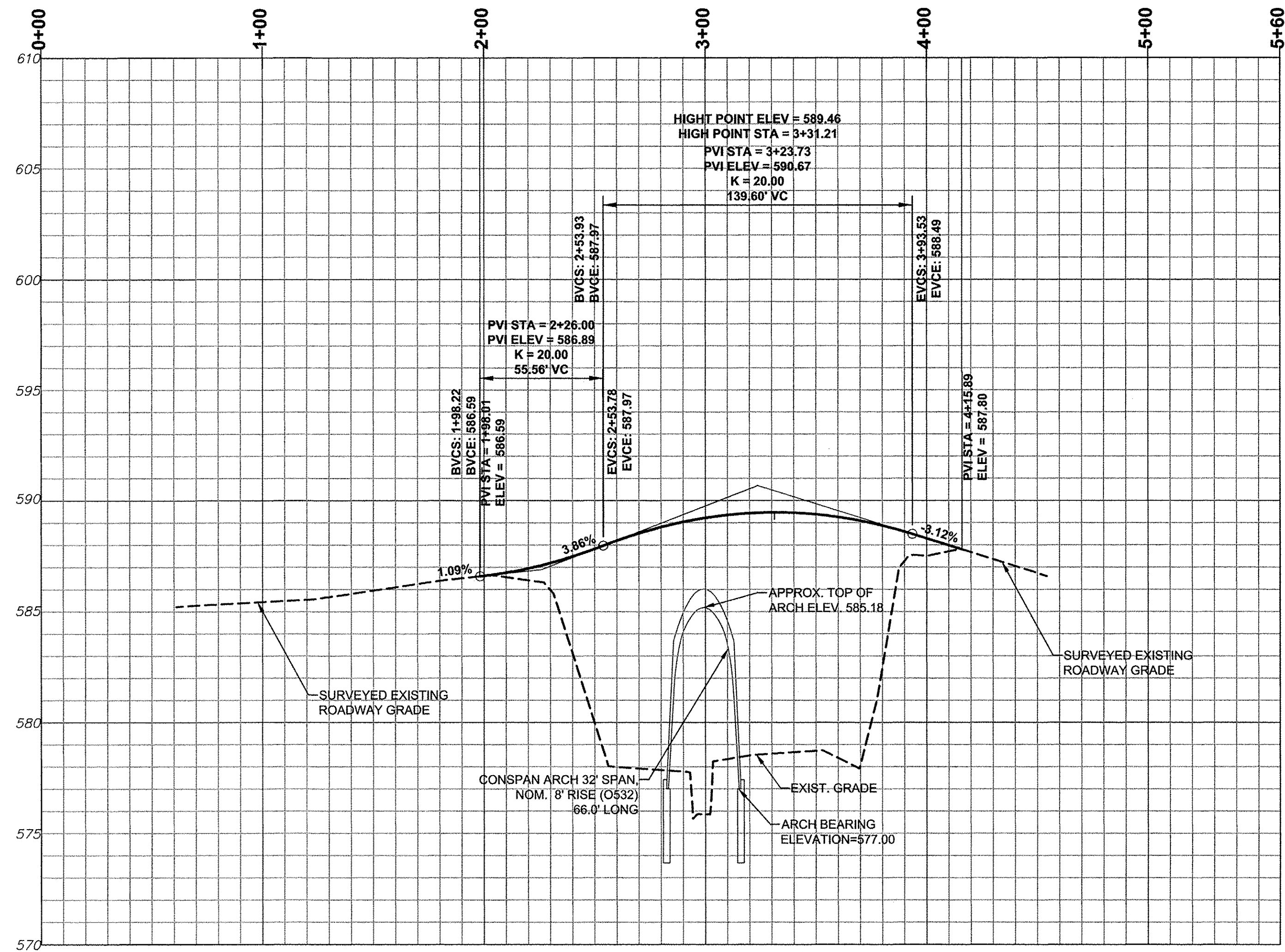
EROSION CONTROL PLAN (3 OF 5)
PHASE 2

ANDREY CHASE



PROJECT NO.	NO.	DATE	REVISION	BY	DATE	DESCRIPTION
1021.400	1	2/20/06	REVIEW COMMENTS	LWH	1/16/13	REPLACED ARCH CULVERT WITH BRIDGE
1021.400	2	3/23/06	DEVELOPER COMMENTS	LWH	2/0/11	REPLACED ARCH CULVERT WITH BRIDGE
1021.400	3	4/24/06	REVIEW COMMENTS	SKF		
1021.400	4	8/23/06	DEVELOPER COMMENTS	PSC		
1021.400	5	7/6/07	REPLACE ARCH CULVERT WITH BRIDGE	JKK		
1021.400	6	1/28/08	REPLACE BRIDGE WITH ARCH CULVERT	JKK		

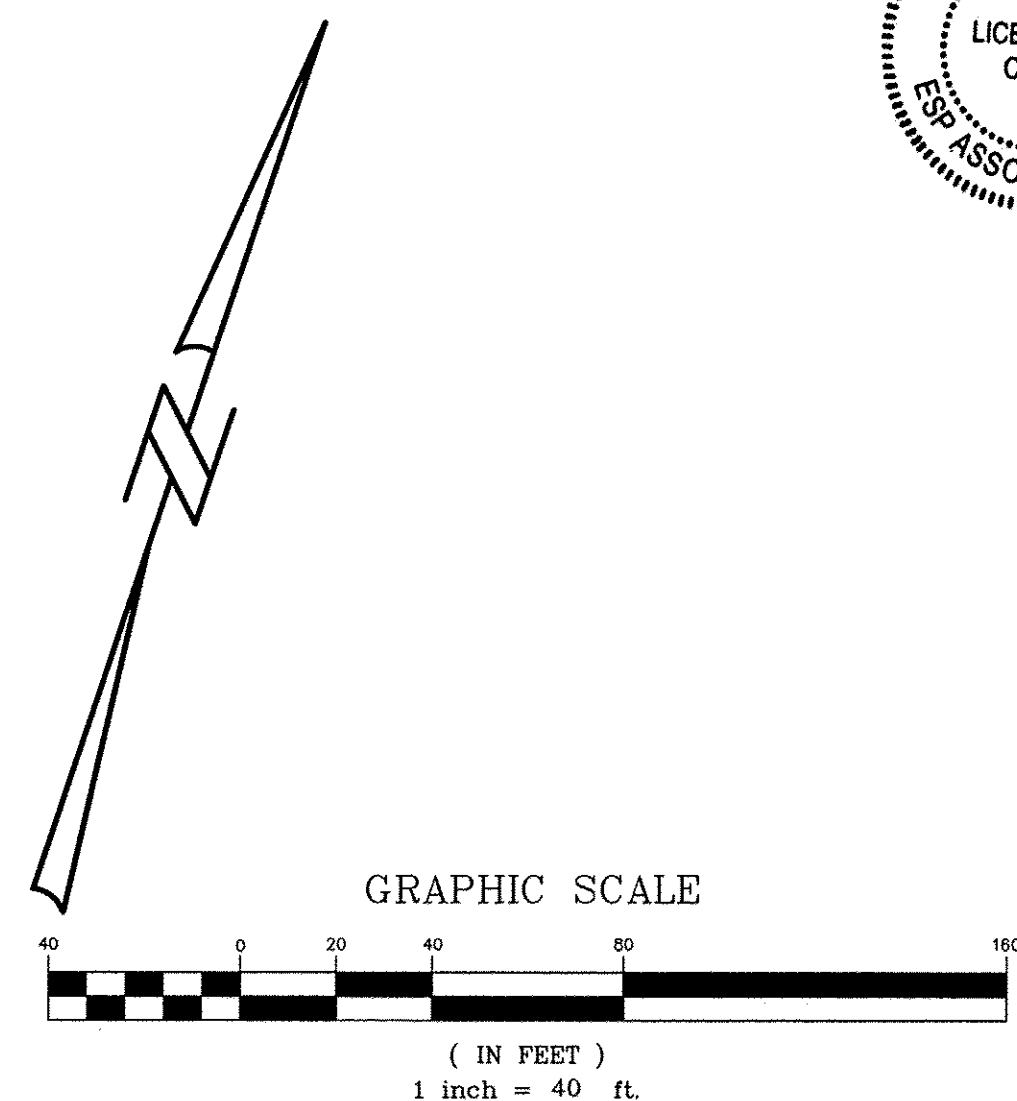
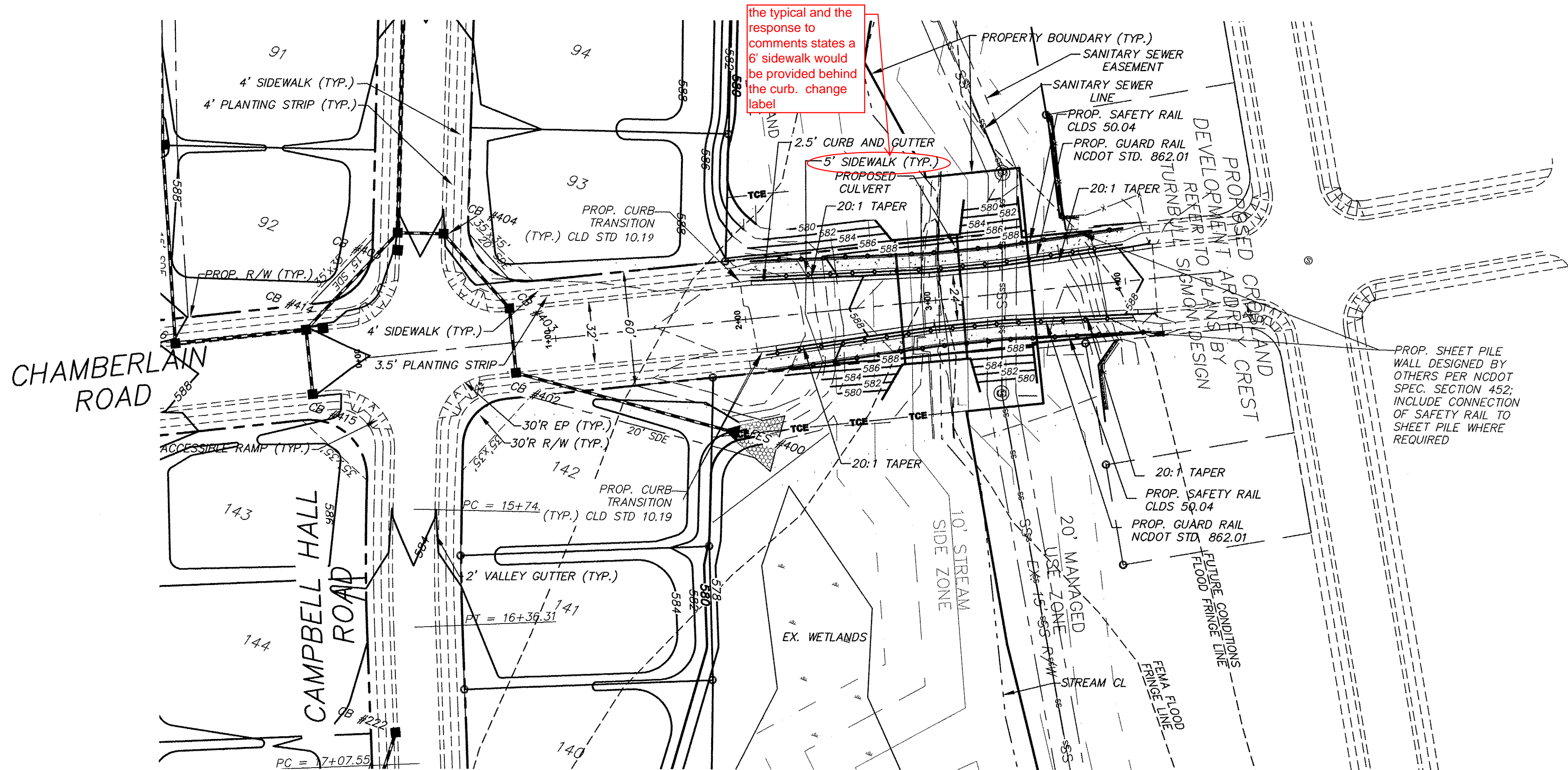
X:\1021.400 - Wade Andrey\1021.400.dwg (Revised Plot Sheets 10-28-13) 1021.400 - EROSION_P42.DWG, EC P42 (3), gspal



CULVERT CROSS SECTION (NTS)

REFER TO DETAIL SHEETS
FOR CULVERT CROSSING
AND HANDRAIL DETAILS

- ① SAFETY RAIL, CLD STD. 50.04
NOTE: PROVIDE A MINIMUM
1' BENCH ON FILL SLOPE
② GUARD RAIL, NCDOT STD. 862.01



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ESP Associates, P.A.

NO.	DATE	REVISION	BY
1	12/16/13	ARCH CULVERT	BAM
2	1/17/13	ARCH CULVERT	KED/DES
3	10/23/12	REPLACED ARCH CULVERT WITH BRIDGE	APG
4	4/03/08	MOVED CULVERT WING WALLS OUT OF CHAD	NJH
5	1/29/08	REPLACE BRIDGE WITH ARCH CULVERT	JKK

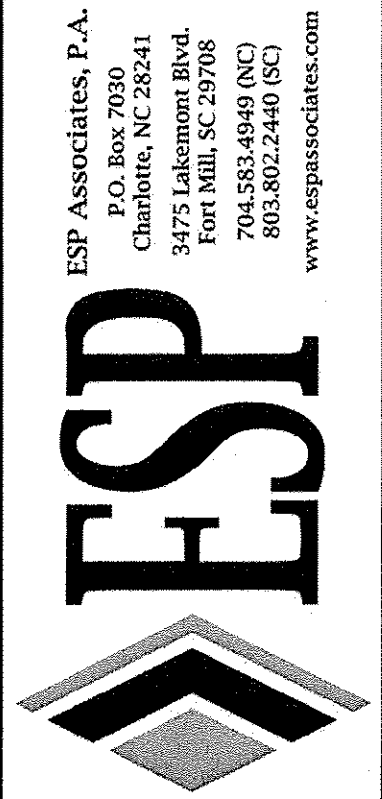
NO.	DATE	REVISION	BY
1	12/16/13	ARCH CULVERT	BAM
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4	4/03/08	MOVED CULVERT WING WALLS OUT OF CHAD	NJH
5	1/29/08	REPLACE BRIDGE WITH ARCH CULVERT	JKK

CHAMBERLAIN ROAD
PLAN AND PROFILE

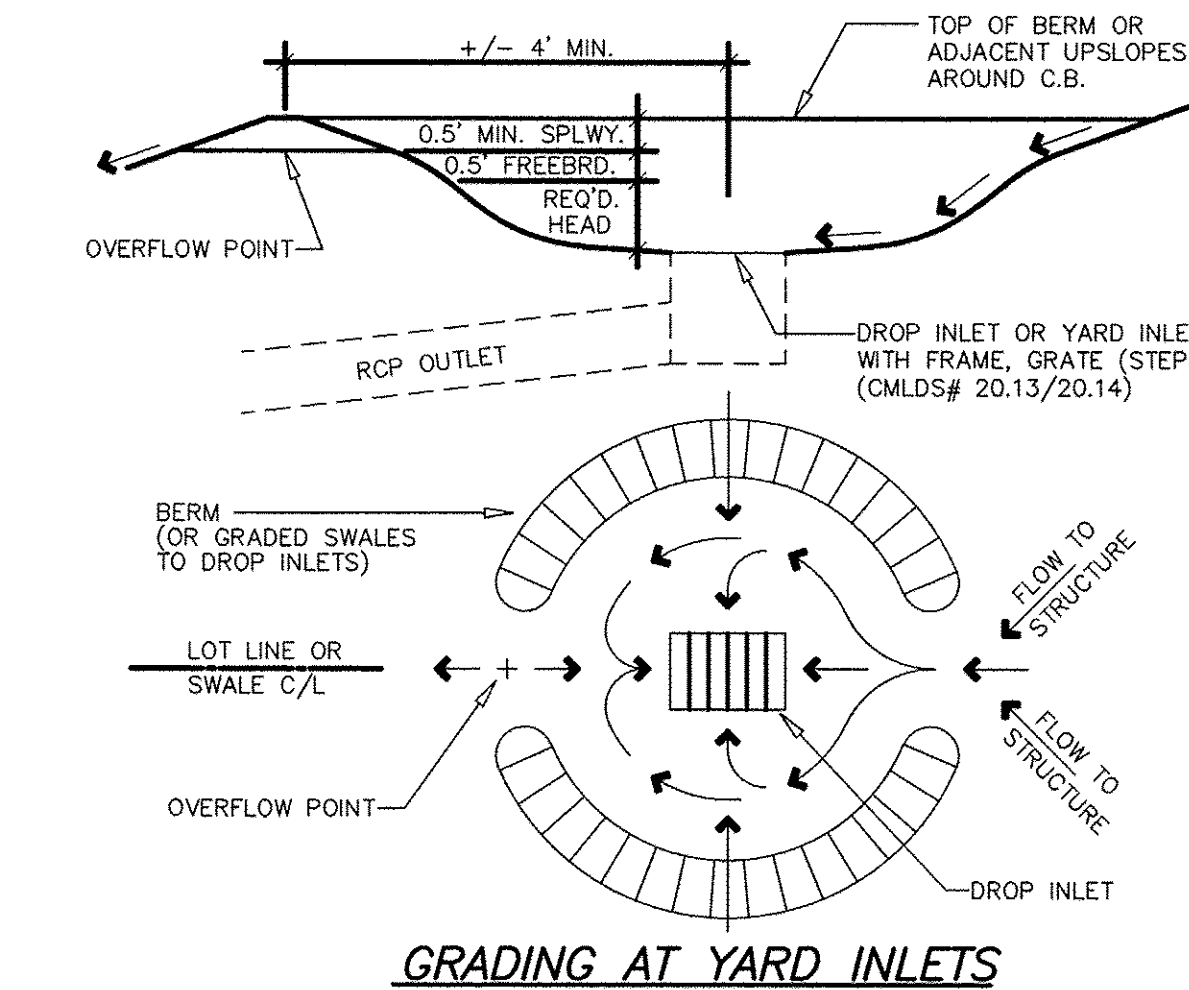
ARDREY CHASE

11121 CARMEL COMMONS BLVD.
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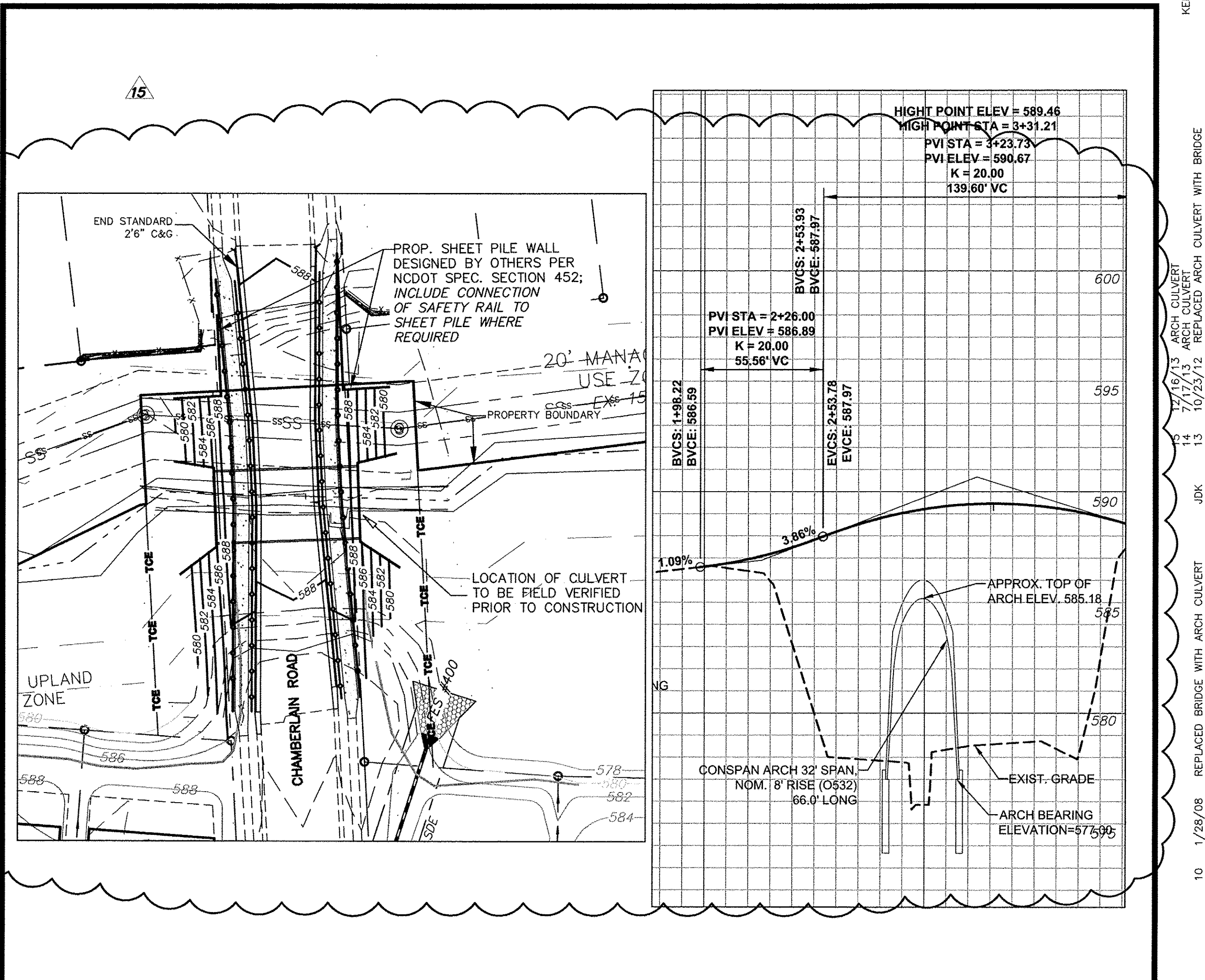
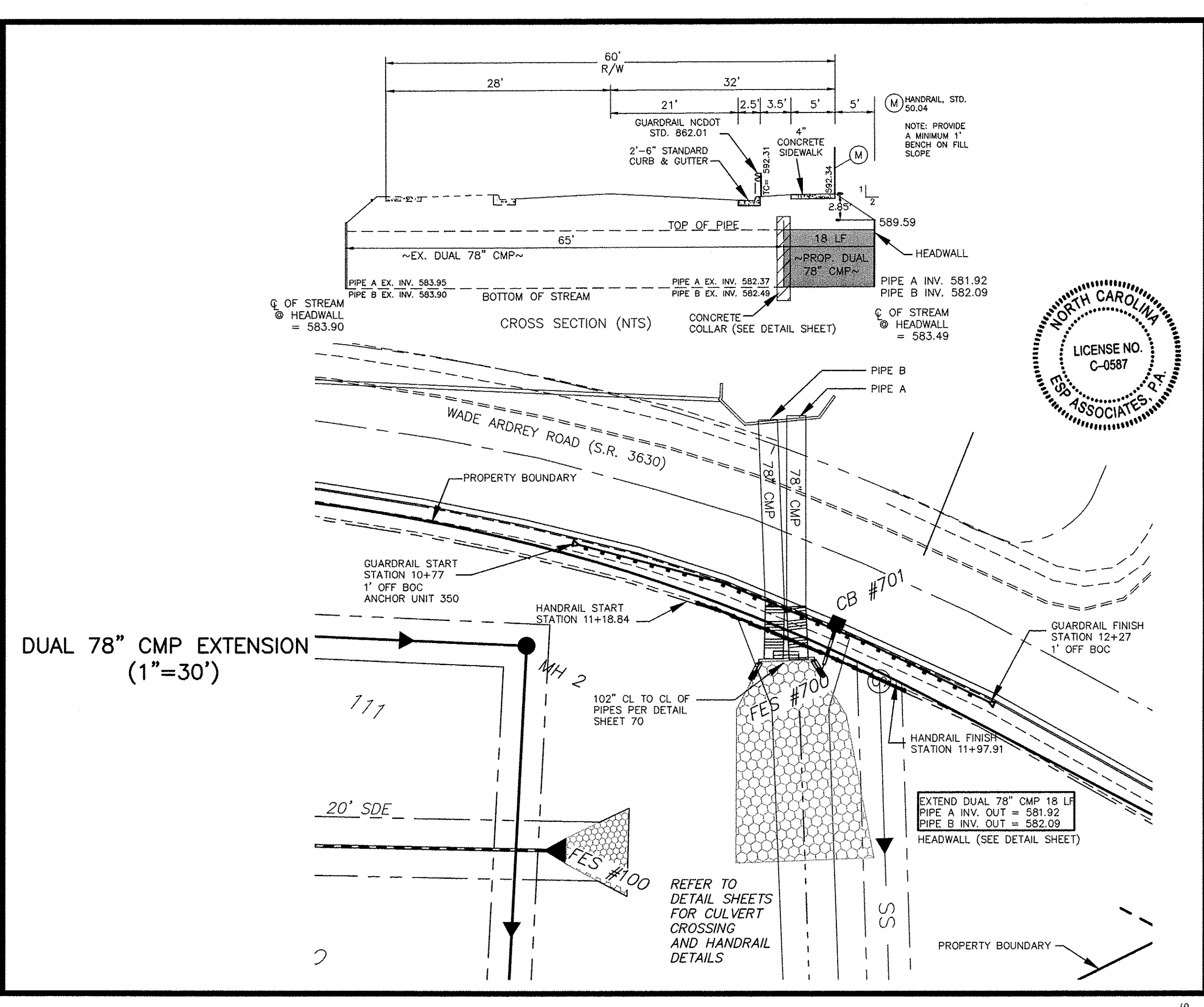
ESP ASSOCIATES, P.A.
P.O. Box 7030
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3475 Lakemont Blvd.
Fort Mill, SC 29708
704.582.4949 (NC)
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	Line ID	Pipe Size	Pipe Slope	Length	Invert Elevation	Invert Elevation	Rim Elevation	Rim Elevation
	Up ->Down	(in)	(%)	(ft)	Up (ft)	Down (ft)	Up (ft.)	Down (ft.)
	CB 101-FES 100	36	0.50	143.18	588.72	588.00	596.15	
	CB 102-CB 101	36	0.50	24.00	589.04	588.92	596.15	596.15
	CB 103-CB 102	30	0.63	74.73	590.01	588.94	597.96	596.15
	CB 104-CB 103	24	0.50	24.00	590.63	590.51	597.96	597.96
	CB 105-CB 104	24	3.70	43.84	592.45	590.83	597.28	597.66
	CB 106-CB 105	24	0.50	117.00	593.23	592.65	598.45	597.28
	YI 107-CB 106	15	4.38	93.00	598.05	593.98	602.76	598.45
	YI 108-YI 107	15	3.72	209.58	606.05	598.25	610.50	602.76
	CB 109-CB 108	15	4.53	212.00	600.99	591.38	608.56	597.96
	CB 110-CB 109	15	4.87	150.00	611.59	604.29	616.06	608.56
	CB 111-CB 110	15	4.53	145.43	618.38	611.79	623.15	616.06
	CB 114-CB 111	15	2.67	58.15	620.13	618.58	624.93	623.15
	CB 115-CB 114	15	1.36	58.15	621.12	620.33	625.87	624.93
	YI 112-CB 102	15	2.88	70.38	592.82	590.79	599.75	596.15
	CB 113-CB 112	15	7.36	74.07	599.27	593.82	603.02	599.75
	YI 116-CB 115	15	0.50	168.55	622.17	621.32	625.85	625.87
	YI 112A-YI 112	12	4.56	146.96	600.53	593.82	607.00	599.75
	YI 112B-YI 112A	12	4.50	225.00	610.85	600.73	617.00	607.00
*	CB 201-FES 200	42	0.50	146.55	573.73	573.00	579.19	
*	CB 202-CB 201	42	0.50	24.00	574.05	573.93	579.19	579.19
*	CB 203-CB 202	42	0.74	101.29	574.80	574.05	580.64	579.19
	CB 204-CB 203	36	3.10	43.84	576.66	575.30	582.66	580.64
	CB 205-CB 204	30	1.40	20.00	577.44	577.16	582.66	582.66
	CB 206-CB 205	15	1.23	43.84	579.23	578.69	582.73	582.66
	YI 218-CB 202	15	0.67	59.77	576.70	576.30	579.50	579.19
	CB 207-CB 205	30	3.59	129.99	582.31	577.64	588.01	582.66
	CB 208-CB 207	30	3.97	124.47	587.45	582.51	593.10	588.01
	CB 209-CB 208	30	2.90	55.93	589.27	587.65	597.27	593.10
	CB 210-CB 209	30	2.03	34.00	590.16	589.47	597.27	597.27
	CB 211-CB 210	30	0.51	61.24	590.67	590.36	595.95	597.27
	CB 212-CB 211	24	1.21	121.27	592.57	591.10	598.27	595.95
	CB 213-CB 212	24	1.79	148.88	595.43	592.77	601.13	598.27
	CB 214-CB 213	24	1.91	148.88	598.48	595.63	603.98	601.13
	CB 215-CB 214	18	1.92	148.88	601.84	598.98	606.84	603.98
	CB 216-CB 215	15	1.92	148.88	604.95	602.09	609.70	606.84
*	CB 221-CB 202	15	0.50	114.03	576.87	576.30	580.58	579.19
	CB 217-CB 211	15	1.33	24.00	592.17	591.85	595.95	595.95
	YI 219-CB 213	15	0.80	134.54	597.45	596.38	600.50	601.13
	YI 220-CB 215	15	0.50	148.00	602.83	602.09	606.00	606.84
	CB 222-CB 221	15	1.00	123.95	578.31	577.07	582.47	580.58
*	CB 301-FES 300	42	0.51	57.31	574.29	574.00	579.56	
*								



YI#	AREA	CFS	HEAD	NOTES
107	0.83	3.60	0.20	GRATE INLET STD. 20.13
108	0.54	2.32	0.25	GRATE INLET STD. 20.13
108A	0.75	3.21	0.25	GRATE INLET STD. 20.13
112	0.29	1.22	0.14	GRATE INLET STD. 20.13
116	0.71	3.10	0.20	GRATE INLET STD. 20.13
218	0.85	3.67	0.20	GRATE INLET STD. 20.13
219	1.19	5.11	0.17	GRATE INLET STD. 20.13
220	1.14	4.90	0.17	GRATE INLET STD. 20.13
323	1.02	4.39	0.26	GRATE INLET STD. 20.13
324	1.31	5.69	0.20	GRATE INLET STD. 20.13
322	0.79	3.38	0.21	GRATE INLET STD. 20.13
325	0.75	3.24	0.30	GRATE INLET STD. 20.13
331	0.72	3.10	0.07	GRATE INLET STD. 20.13
330	0.35	1.51	0.12	GRATE INLET STD. 20.13
419	0.95	4.10	0.30	GRATE INLET STD. 20.13
417	0.81	7.34	0.07	GRATE INLET STD. 20.13
417A	0.73	7.34	0.07	GRATE INLET STD. 20.13
420	1.04	4.46	0.12	GRATE INLET STD. 20.13
112A	0.47	1.98	0.14	GRATE INLET STD. 20.13
112B	0.70	2.95	0.19	GRATE INLET STD. 20.13
802	0.07	0.30	0.04	GRATE INLET STD. 20.13

[illegible]