AF 40369

N

ORIGINAL GRADING OF
EAST DETENTION POND

CONGAREE ROAD

10-PLACE T-HANGAR
55' x 258'

12-PLACE T-HANGAR
55' x 325'

100' x 100'

100' x 100'

SEE SHEET 13a FOR
BASIN DETAILS

SEE PROFILE OF
DETENTION BASIN

DITCH
REQUIRED

DITCH
REQUIRED

WASTE MATERIAL
IN THIS AREA

STA. 6+57.73

STA. 0+00

STA. 5+00

STA. 10+85.71

STA. 10+05.00

STA. 9+32.14

℄ R/W 18-36

689.11'

SCALE IN FEET
100 0 100 200

27

REPRO PRODUCTS

GREENVILLE DOWNTOWN AIRPORT
GREENVILLE, SOUTH CAROLINA

GRADING PLAN

REVISION	DATE	BY
ASPHALT REMOVAL DELETED	5/20/88	HFW
SAND RIP RAP TO HAND PLACED STONE	6/14/88	HFW
RECORD DRAWINGS	4-6-89	R.H.E.

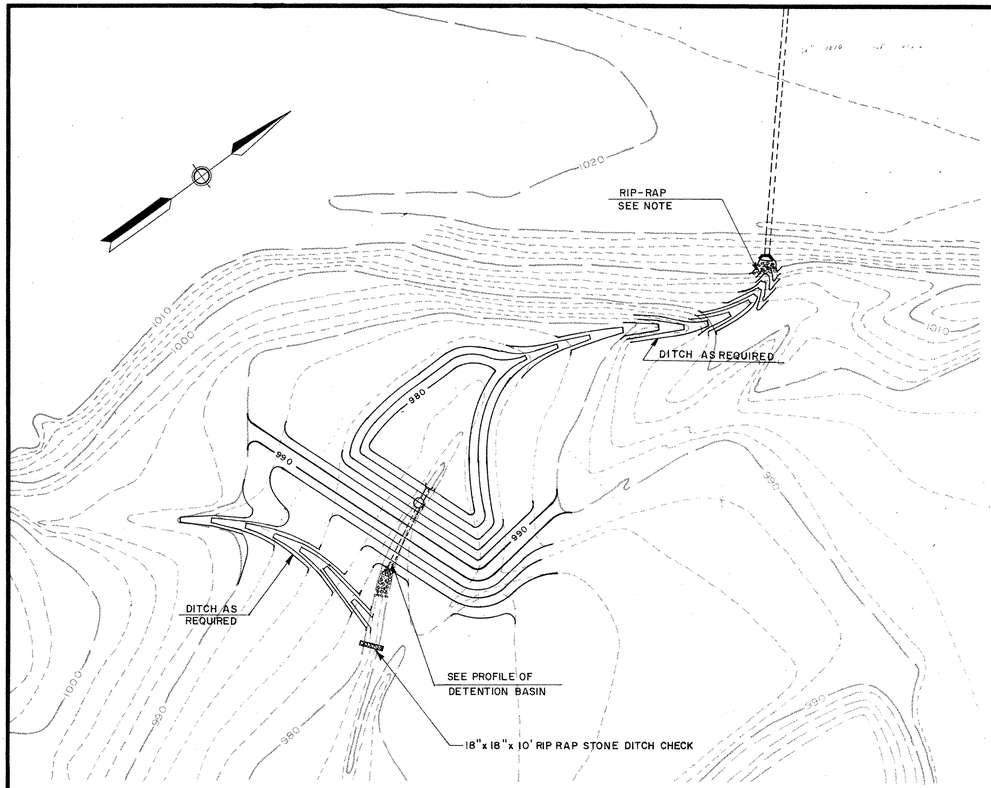
PROJECT NO. A27514
DESIGNED BY H.F.W.
DRAWN BY G.W.K.
CHECKED BY
REVIEWED BY
DATE AUGUST 4, 1987
SCALE AS SHOWN

Mayes, Sudderth & Etheredge, Inc.
Engineers Architects Planners

Atlanta, GA / Orlando, FL / North Little Rock, AR / Lexington, KY / Waycross, GA

DRAWING NO. 3

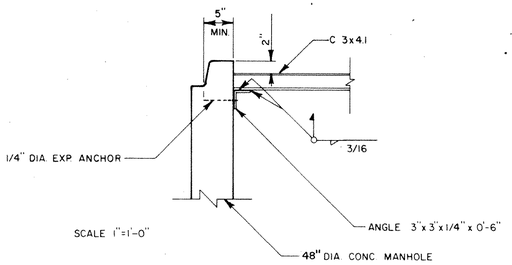
SHEET 3 OF 19



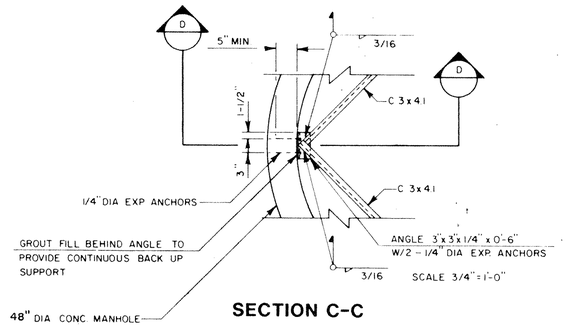
PLAN OF DETENTION BASIN

SCALE: 1"= 50'

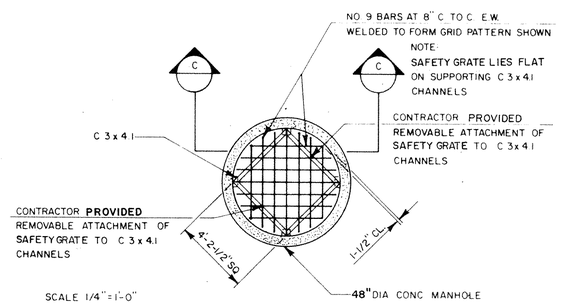
NOTE:
UNLESS NOTED THE NOMINAL WEIGHT OF ALL GRADED RIP-RAP STONE **WAS** 50 LBS. PER STONE. A RIP-RAP BLANKET EXTENDING FOR A LENGTH OF SIX (6) PIPE DIAMETERS AND A WIDTH OF TWO (2) PIPE DIAMETERS **WAS** INSTALLED AT ALL STORM DRAIN OUTLETS.



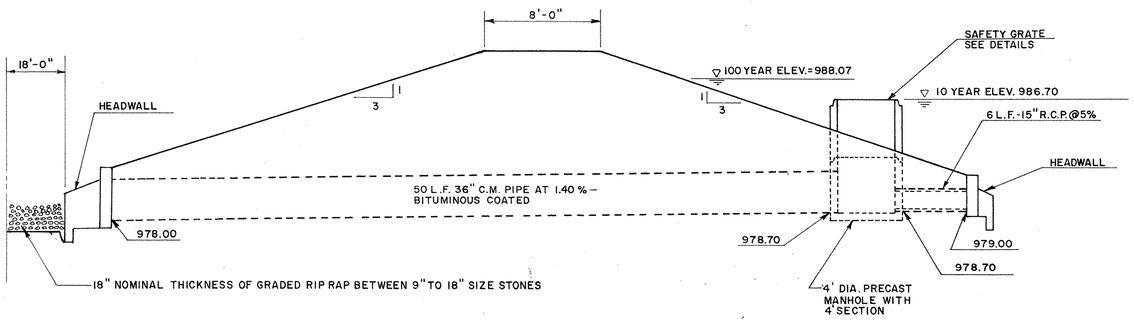
SECTION D-D



SECTION C-C



SAFETY GRATE



PROFILE OF DETENTION BASIN

SCALE: 1"= 5'

NOTES EMBANKMENT PLACEMENT

1. THE CONTRACTOR PROVIDED SUITABLE EQUIPMENT TO ACHIEVE SPECIFIED COMPACTION, INCLUDING BUT NOT LIMITED TO WATER-FILLED SHEEPSFOOT ROLLERS, RUBBER TIRED ROLLERS, HAND TAMPS AND SLEDS. ALL EQUIPMENT WAS IN GOOD WORKING ORDER. THE CONSTRUCTION SITE WAS MAINTAINED IN A NEAT, WORKMANLIKE MANNER, FREE OF LOOSE DEBRIS AND DISCARDED CONSTRUCTION MATERIALS.
2. IT WAS THE CONTRACTOR'S RESPONSIBILITY TO ACHIEVE FILL AND COMPACTION WITHOUT DAMAGE TO THE CONCRETE AND CORRUGATED STEEL CULVERTS. THE EARTHFILL ON EACH SIDE OF THE CULVERTS **WERE** KEPT AT APPROXIMATELY THE SAME LEVEL AS THE PLACING OF THE EARTHFILL PROGRESSES, AND THE CULVERTS **WERE** PROTECTED AGAINST DISPLACEMENTS OR OTHER DAMAGE.
3. NO FILL **WAS** PLACED ON FROZEN GROUND. ANY FILL PLACED FILL WHICH BECOMES FROZEN OR EXCESSIVELY WET OR DRY **WAS** CORRECTED TO COMPLY WITH PLANS AND SPECIFICATIONS AT NO ADDITIONAL COST TO THE OWNER, AND PRIOR TO PLACING ADDITIONAL LIFTS OR FILL, NO UNSUITABLE OR DAMAGED FILL (RAIN SILTATION, FREEZE, THAW, ETC.) **WAS** COVERED WITH ADDITIONAL FILL.
4. ALL UNSUITABLE MATERIAL (TOPSOIL, ORGANIC CLAYS, ROOTS, TREES) **WAS** PROMPTLY REMOVED FROM THE EMBANKMENT CONSTRUCTION SITE AND WASTED AT APPROVED LOCATIONS.
5. RIP-RAP **WAS** WELL GRATED WITH NOMINAL SIZE (GREATER THAN 70%) RANGING BETWEEN 9 INCHES TO 18 INCHES.
6. ALL FILL MATERIAL **WAS** CLEAN SOIL, FREE OF ORGANIC AND DELETERIOUS MATERIALS, AND ROCK/STONES OVER 3 INCHES IN DIAMETER, AND HAVE A P1 LESS THAN 30. ONLY CL, ML, AND MH MATERIALS (UNIFIED SOIL CLASSIFICATION SYSTEM) **WERE** USED IN THE EMBANKMENT, UNLESS SPECIFICALLY APPROVED IN WRITING BY THE ENGINEER.
7. ALL FILL **WAS** COMPACTED TO A MINIMUM OF 95 PERCENT OF ASTM D-698, WITH MOISTURE CONTENTS BEING MAINTAINED BETWEEN THE SOILS OPTIMUM MOISTURE AND 3 PERCENT ABOVE THAT VALUE.
8. ALL FILL **WAS** COMPACTED BY CONVENTIONAL EQUIPMENT SUCH AS SHEEPSFOOT ROLLER AND **WAS** PLACED IN 6 TO 8 INCH LIFTS LOOSE MEASURE AND COMPACTED. WHERE PORTABLE HAND EQUIPMENT **WAS** REQUIRED, MAXIMUM LIFT THICKNESS **WAS** 3 TO 4 INCHES LOOSE MEASURE.
9. THE OWNER **PROVIDED** GEOTECHNICAL TESTING SERVICES DURING CONSTRUCTION TO CONTROL FILL (COMPACTION AND MOISTURE CONTENT) AS EMBANKMENT **WAS** BEING CONSTRUCTED.
10. ALL REINFORCED CONCRETE PIPE JOINTS **WERE** O-RING, LOCK AND SEAL TYPE.
11. ALL REINFORCED CONCRETE PIPE **CONFORMED** TO ALL ASTM C76 OR AASHO M170 SPECIFICATIONS, CLASS OF PIPE IS 3.
12. FULLY BITUMINOUS COATED CORRUGATED STEEL PIPE **CONFORMED** TO ALL ASTM A444 OR ASSHO M218 SPECIFICATIONS, WALL THICKNESS OF PIPE IS 0.079 INCHES.

ORIGINAL GRADING OF EAST DETENTION POND

GREENVILLE DOWNTOWN AIRPORT

GREENVILLE, SOUTH CAROLINA

DETENTION BASIN PLAN

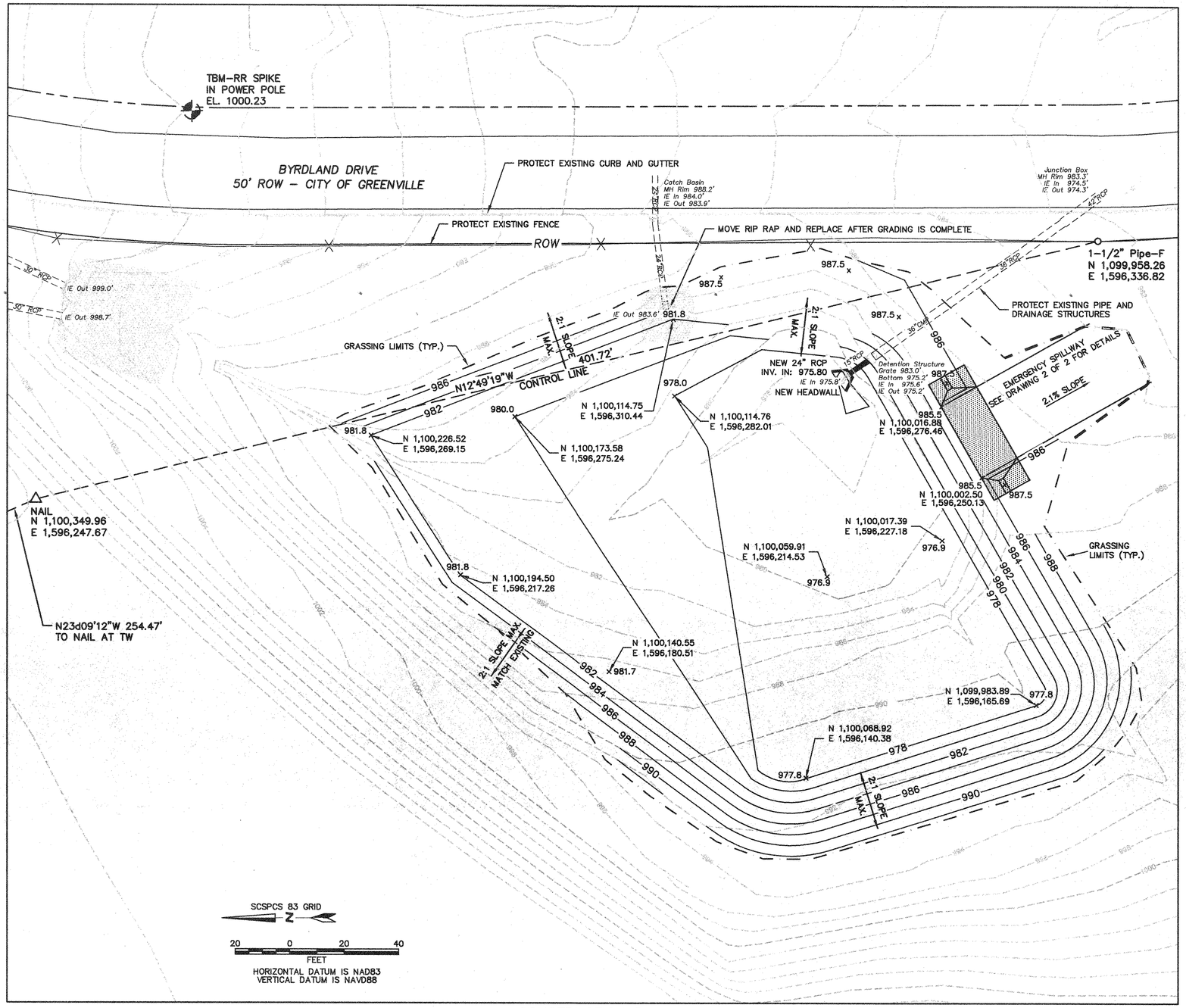
REVISION	BY	DATE
RECORD DRAWING	R.H.E.	4-6-89

PROJECT NO. A27514
DESIGNED BY J.E.Y.
DRAWN BY
CHECKED BY
REVIEWED BY
DATE SEPTEMBER 6, 1988
SCALE AS SHOWN

Mayes, Sudderth & Etheredge, Inc. Engineers Architects Planners
Atlanta, GA / Orlando, FL / North Little Rock, AR / Lexington, KY / Waycross, GA

DRAWING NO. 13a
SHEET 13a OF 19

REPRO PRODUCTS 302794



MODIFICATIONS TO GRADING OF EAST DETENTION POND - 2000 (PART OF T-HANGAR PROJECT)

LEGEND

- PROPERTY LINE
- GRASSING LIMIT
- EXISTING STONE RIPRAP
- PROPOSED STONE RIPRAP

NOTES

1) STONE FOR HAND PLACED RIPRAP SHALL BE PLACED TO A THICKNESS OF 12 INCHES. RIPRAP STONE SHALL VARY IN SIZE WITH NO PIECES WEIGHING MORE THAN 150 POUNDS. AT LEAST 20 PERCENT OF THE STONE PIECES SHALL WEIGH MORE THAN 60 POUNDS, AND NO MORE THAN 20 PERCENT OF THE STONE PIECES SHALL WEIGH LESS THAN 25 POUNDS.

2) GEOTEXTILE SHALL BE PLACED UNDER THE RIPRAP. GEOTEXTILE MATERIAL SHALL BE CLASS 2 TYPE B IN ACCORDANCE WITH SCDOT SUPPLEMENTAL SPECIFICATIONS "GEOTEXTILE FOR EROSION CONTROL UNDER RIPRAP."

3) TOPOGRAPHY WAS PROVIDED BY SURVEY AND MAPPING SERVICES, INC. OF WEST COLUMBIA, S.C. ADDITIONAL DETAIL WAS TAKEN FROM AERIAL MAPPING PROVIDED BY THE S.C. DEPARTMENT OF COMMERCE, DIVISION OF AERONAUTICS.

4) THE CONTRACTOR SHALL RETAIN AND PROTECT THE EXISTING POND OUTLET STRUCTURE. THE EXISTING 15" RCP INLET AND RETAINING WALL ATTACHED TO THE OUTLET STRUCTURE SHALL BE REMOVED AND REPLACED WITH 8 LF OF NEW 24" RCP WITH A NEW HEADWALL AS SHOWN.

5) THE POND SHALL BE EXCAVATED TO THE GRADES SHOWN. EXCESS EXCAVATION SHALL BE PLACED ELSEWHERE ON AIRPORT PROPERTY AS DIRECTED BY THE OWNER. ALL EXPOSED SOIL SHALL BE SEEDED WITH AN APPROVED GRASS MIXTURE AS SOON AS PRACTICABLE.

6) SEE SPILLWAY DETAIL FOR CROSS–SECTION OF DAM.

CONSTRUCTION PLAN

SUMMARY OF QUANTITIES

ITEM NO.	DESCRIPTION	UNITS	QUANTITIES ESTIMATED	QUANTITIES FINAL
SA–1–1	REMOVAL AND DISPOSAL OF HEADWALL AND RCP	L.S.	1	
SA–1–2	UNCLASSIFIED EXCAVATION	S.Y.	5875	
SA–1–3	24" DIAMETER CONCRETE CULVERT PIPE CLASS III	L.F.	8	
SA–1–4	24 INCH REINFORCED CONCRETE HEADWALL	L.S.	1	
SA–1–5	HAND PLACED RIP RAP	TON	43	
SA–1–6	GEOTEXTILE FOR EROSION CONTROL UNDER RIP RAP CLASS 2, TYPE B	S.Y.	82	
SA–1–7	SEEDING	AC.	4	
SA–1–8	MULCHING	AC.	4	
SA–1–9	SILT FENCE	L.F.	600	
SA–1–10	CLEAN OUT DITCH ALONG PIPER LANE	L.S.	1	
SA–1–11	SURGE STONE	TON	250	

3 DAYS BEFORE DIGGING IN SOUTH CAROLINA
CALL 1–800–922–0983
PALMETTO UTILITY LOCATION SERVICE

SOUTH CAROLINA PEARSON ENGINEERING No. C00338 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 9338 WILLIAM R PEARSON 5/25/2000

DESIGNED: WRP/ABM
DRAWN: MFM/ABM
CHECKED: WRP

PEARSON Engineering
PLANNERS ENGINEERS SURVEYORS
West Columbia, South Carolina

Greenville Airport Commission
Greenville Downtown Airport

CONSTRUCTION OF A 14 UNIT T–HANGAR FACILITY

Byrdland Drive Detention Basin Layout Plan

SUPPLEMENTAL AGREEMENT NO. 1

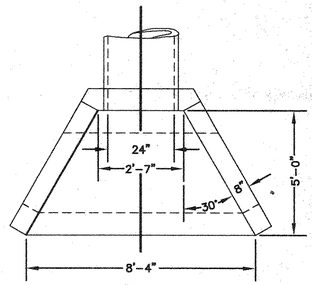
FILE NO.: 00114
SCALE: AS SHOWN
DATE: MAY 2000
SHEET NO.: 1 OF 2

NOTE:

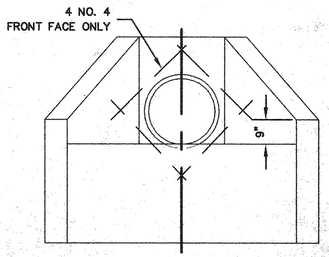
CONTRACTOR MAY INSTALL AN APPROVED PRECAST HEADWALL IN LIEU OF THE CAST IN PLACE TYPE.

CONCRETE FOR HEADWALLS SHALL CONFORM TO SCDOT SPECIFICATION 702 (Fc=3,000 PSI).

REINFORCING STEEL FOR HEADWALLS SHALL CONFORM TO SCDOT SPECIFICATION 703.

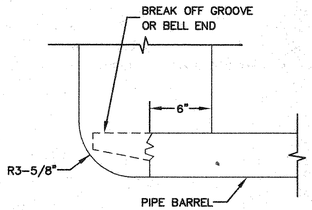


PLAN



ELEVATION

CONCRETE HEADWALL

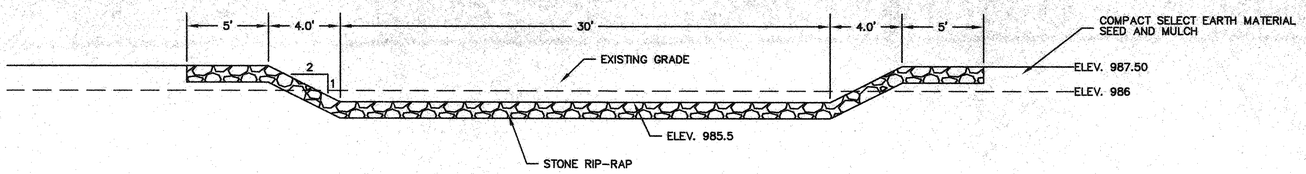


ROUNDED ENTRANCE

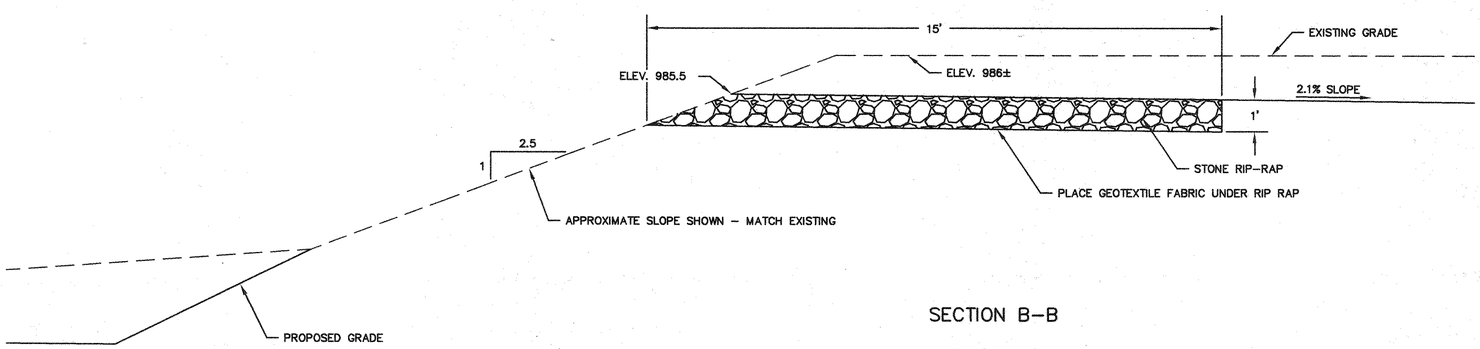
SECTION

SECTION THROUGH STANDPIPE WITH REINFORCED CONCRETE HEADWALL DETAIL

N.T.S.



SECTION A–A



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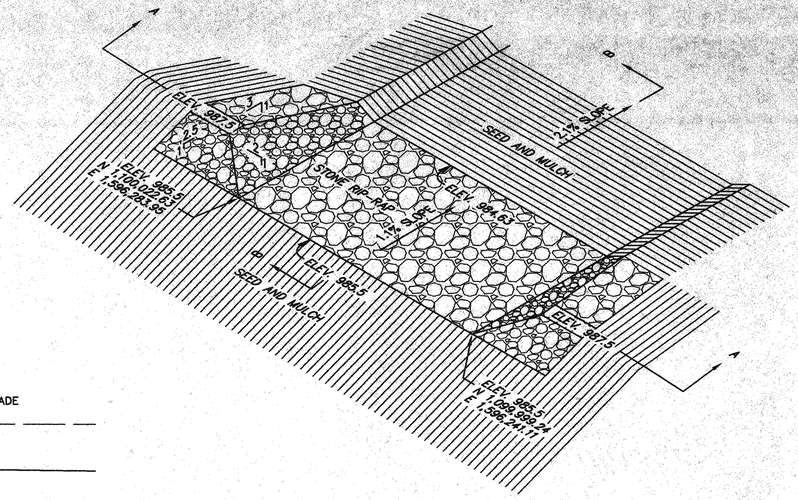

SPILLWAY SECTIONS AND ISOMETRIC

N.T.S.

MODIFICATIONS TO GRADING OF EAST DETENTION POND - 2000 (PART OF T-HANGAR PROJECT)

SOUTH CAROLINA PEARSON ENGINEERING No. C00338 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED No. 9338 PROFESSIONAL ENGINEER WILLIAM R PEARSON 5/29/00

DESIGNED: WRP/ABM
DRAWN: MFM/ABM
CHECKED: WRP

PEARSON Engineering
PLANNERS ENGINEERS SURVEYORS
West Columbia, South Carolina

Greenville Downtown Airport Commission

Greenville Downtown Airport

CONSTRUCTION OF A 14 UNIT T-HANGAR FACILITY

Byrdland Drive
Detention Basin Details

SUPPLEMENTAL AGREEMENT NO. 1

FILE NO.: 00114
SCALE: AS SHOWN
DATE: MAY, 2000
SHEET NO.: 2 OF 2