

CONSTRUCTION DRAWINGS
FUELING STATION 47

124 S.W. CHAD PL.

COLUMBIA COUNTY, FLORIDA

FOR

G.W. HUNTER, INC.

OCTOBER, 2012

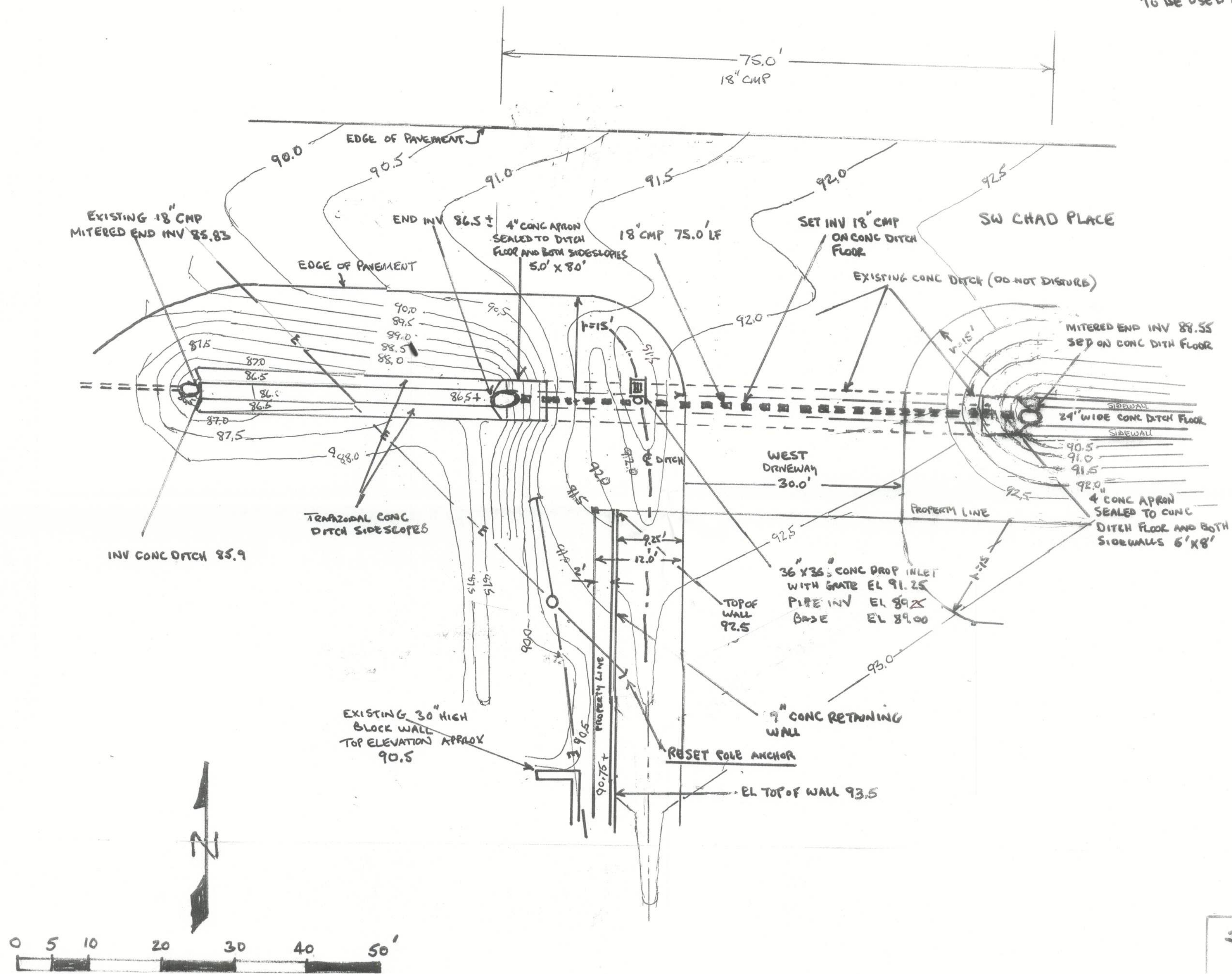
REVISION NO 1 NOVEMBER 28, 2012

REVISION NO 2 DECEMBER 20, 2012



JEROME J. LESZKIEWICZ, P.E.
CONSULTING ENGINEER
787 S.E. EVERGREEN DRIVE
LAKE CITY, FLORIDA

NOTE: FIFTEEN FOOT RADIUS CORNERS
TO BE USED ON EAST DRIVEWAY



SCALE: 1" = 10'

JEROME J. LESZKIEWICZ, P.E.
CONSULTING ENGINEER

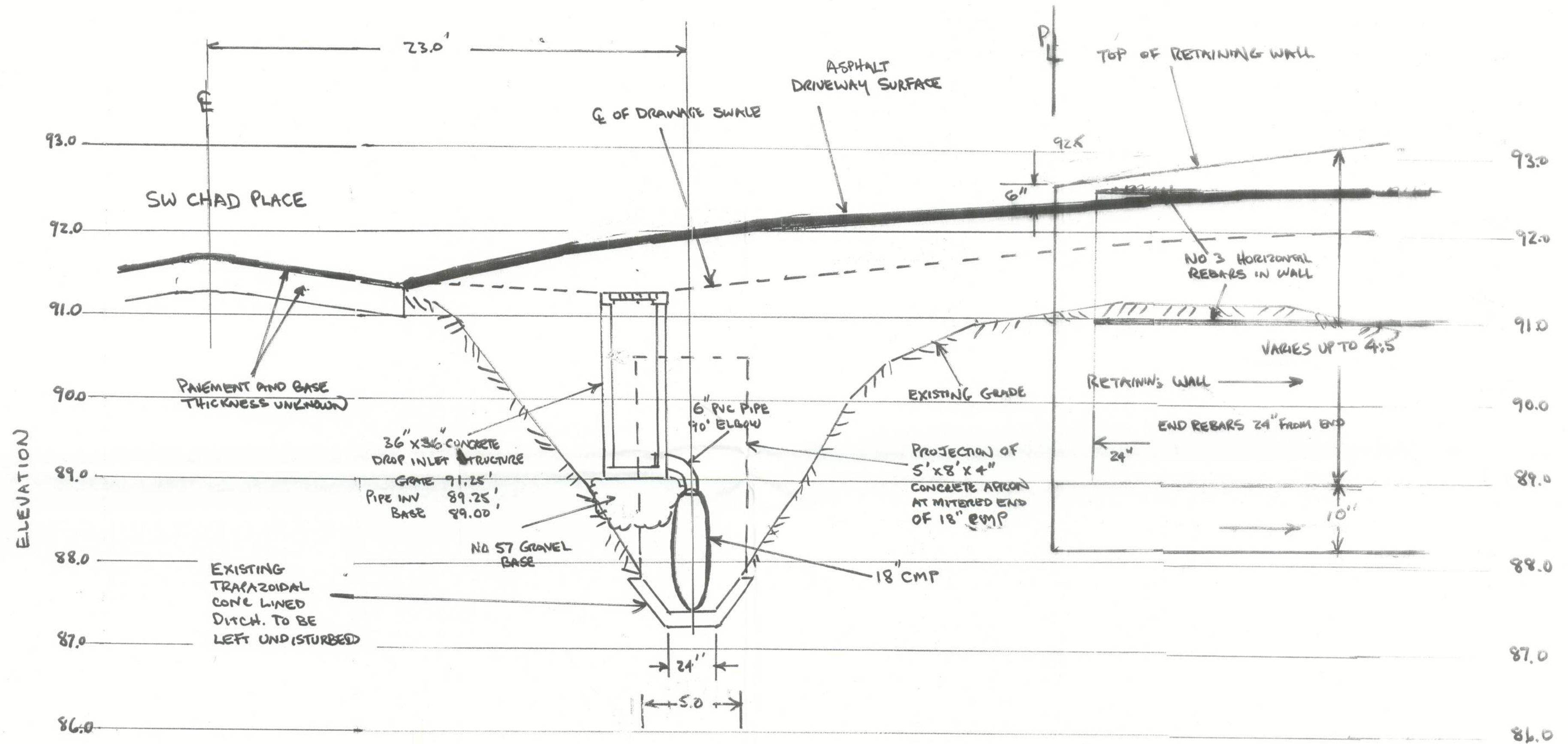
GW HUNTER, INC.
FUELING STATION 47
COLUMBIA COUNTY FLORIDA
WEST ENTRANCE & DITCH
ENLARGEMENT

REVISED 11/28/12 SHEET 10

REVISION 2 12/20/12

NORTH

SOUTH



SCALE: HORIZONTAL 1" = 4.0'
VERTICAL 1" = 1.0'

SECTION D-D
RETAINING WALL / END WALL PROFILE
ACROSS COUNTY DRAINAGE DITCH

NOTE:
LENGTH OF ENTIRE RETAINING WALL
152.0'

REVISION 2 12/20/12

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CONSULTING ENGINEER

GW HUNTER, INC.
FUELING STATION 47
COLUMBIA COUNTY FLORIDA

RETAINING WALL / DITCH END
WALL PROFILE

REVISION 11/28/12 SHEET 11

Permit # 30727

CONSTRUCTION DRAWINGS FUELING STATION 47

124 S.W. CHAD PL.

COLUMBIA COUNTY, FLORIDA

FOR

G.W. HUNTER, INC.

OCTOBER, 2012

REVISION NO 1 NOVEMBER 28, 2012

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JEROME J. LESZKIEWICZ, P.E.
CONSULTING ENGINEER
787 S.E. EVERGREEN DRIVE
LAKE CITY, FLORIDA

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* REVISION NO 1 11/28/12 ** REVISION NO 2 12/20/12

NOTES

- DESIGN IS IN ACCORDANCE WITH THE CURRENT FLORIDA BUILDING CODE, AND 2012 SUPPLEMENT
- FINAL DESIGN OF THE CANOPY STRUCTURE, FUELING ISLAND PUMPS, UNDERGROUND FUEL LINES AND ELECTRICAL, CONTROL PANEL, AND FUEL STORAGE TANK IS THE RESPONSIBILITY OF OTHERS AND IS NOT CERTIFIED BY THE ENGINEER'S SIGNATURE AND SEAL ON THESE PLANS.
- ALL BRUSH, WEEDS AND GRASSES WITHIN THE AREA DESIGNATED FOR TOPSOIL REMOVAL (SHEET 5) SHALL BE CLEARED AND GRUBBED. BOTH EXISTING DRIVEWAY ENTRANCES AND DIRT ROADS ACROSS THE COUNTRY DRAINAGE DITCH SHALL BE EXCAVATED AND REMOVED, ALONG WITH ANY EXISTING CULVERT PIPE.
- TOPSOIL REMOVAL**
ALL TOPSOIL CONTAINING ORGANICS AND ROOTS WITHIN THE AREA DESIGNATED ON SHEET SHALL BE STRIPPED TO A DEPTH OF 6 INCHES AND STOCKPILED ON SITE FOR USE AS NON-STRUCTURAL FILL SOIL TO BUILD UP GRADE AROUND THE FUELING STATION PAVEMENT AREA AS SHOWN ON SHEET

5. BACKFILLING OF TREE STUMP HOLES

A TOTAL OF SEVEN TREE STUMP HOLES LOCATED ON SHEET 5 UP TO 10 FT IN DIAMETER AND 6 FEET DEEP SHALL BE BACKFILLED WITH STRUCTURAL FILL. STRUCTURAL FILL SHOULD CONSIST OF AN INORGANIC, NON-PLASTIC, GRANULAR SOIL CONTAINING LESS THAN 12 PERCENT MATERIAL PASSING THE NO 200 MESH SIEVE (RELATIVELY CLEAN SAND WITH A UNIFIED SOIL CLASSIFICATION OF SP OR SP-SM). LOOSE SOILS IN THE STUMP EXCAVATIONS SHOULD BE REMOVED, THEN THE EXPOSED SURFACES (BOTTOM AND SIDES OF EXCAVATIONS) SHOULD BE RECOMPACTED, TESTED AND STABILIZED PRIOR TO BACKFILLING. STRUCTURAL FILL SHOULD BE PLACED IN THIN LOOSE LIFTS NOT TO EXCEED 12 INCHES IN THICKNESS AND COMPACTED WITH OVERLAPPING PASSES OF A RELATIVELY HEAVY WEIGHT DRUM ROLLER (WITH THE VIBRATORY FUNCTION DISENGAGED) HAVING A TOTAL OPERATING STATIC WEIGHT (WEIGHT OF FUEL AND WATER INCLUDED) OF AT LEAST 5 TONS AND A DRUM DIAMETER OF 5 FEET. FOR WORK BEHIND EQUIPMENT, THE MAXIMUM LOOSE THICKNESS SHALL NOT EXCEED 6 INCHES.

EACH LIFT SHOULD BE THOROUGHLY COMPACTED TO PROVIDE A DENSITY EQUIVALENT TO AT LEAST 98 PERCENT OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D-1557).

6. EXPOSED SUBGRADE

EXPOSED SUBGRADE WITHIN THE PAVEMENT AREAS WHERE IMPORTED STABILIZED SOIL IS TO BE PLACED SHALL BE PROPERLY PREPARED, RECOMPACTED AND PROOFROLLED WITH A FULLY-LOADED, TANDEM-AXLE DUMP TRUCK OR SIMILAR PNEUMATIC-TIRED EQUIPMENT. ANY SOFT OR LOOSE SOILS FOUND DURING THE PROOFROLLING PROCEDURE SHALL BE UNDERCUT AND REPLACED WITH SUITABLE, WELL-COMPACTED, ENGINEERED FILL.

7. STABILIZED SOIL LAYER

IN ALL AREAS TO RECEIVE ASPHALT AND CONCRETE PAVEMENT, THE LIMEROCK BASE LAYER MUST BE UNDERLAIN BY A 12" LAYER OF STABILIZED SOIL PROVIDING AN LBR OF 40. THE EXISTING FINE SAND SUBGRADE HAS AN LBR OF LESS THAN 20. CONTRACTOR MAY ELECT TO ESTABLISH A CUT GRADE AT THE BOTTOM OF THE DESIGNATED STABILIZED SOIL LAYER AND IMPORT STABILIZED SOIL THAT WILL MEET THE LBR 40 REQUIREMENT. CONTRACTOR MAY ALSO CHOOSE TO ESTABLISH CUT GRADE CONSISTENT WITH 6" TOPSOIL REMOVAL, AND BLEND MATERIAL SUCH AS LIMEROCK WITH THE IN-SITU SOIL TO ACHIEVE AN LBR OF 40 TO THE REQUIRED DEPTH.

THE 12" LIFT SHOULD BE THOROUGHLY COMPACTED TO PROVIDE A DENSITY EQUIVALENT TO AT LEAST 98 PERCENT OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D-1557).

8. LIMEROCK BASE

LIMEROCK BASE SHALL MEET THE REQUIREMENTS OF THE CURRENT FDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION." THE SELECTED BASE MATERIAL SHOULD BE COMPACTED TO 98 PERCENT OF ITS MAXIMUM DRY DENSITY AS DETERMINED BY THE MODIFIED PROCTOR TEST (ASTM D-1557). THE BASE SHALL HAVE A MINIMUM LBR VALUE OF 100 WHEN COMPACTED TO 98 PERCENT OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY.

9. CONSTRUCTION MONITORING AND TESTING

CONTRACTOR SHALL RETAIN THE SERVICES OF AN INDEPENDENT, 3RD PARTY MATERIALS TESTING LABORATORY THROUGHOUT THE COURSE OF THE CONTRACT TO TEST SAMPLES OF IMPORTED OFF-SITE MATERIALS PROPOSED FOR USE AS STRUCTURAL FILL TO DETERMINE COMPACTION AND CLASSIFICATION CHARACTERISTICS. THE TESTING LABORATORY SHALL PERFORM IN-PLACE FIELD DENSITY TESTS IN THE PROOFROLLED SUBGRADE AND IN EACH LIFT OF STRUCTURAL FILL OR BACKFILL TO VERIFY THE REQUIRED DEGREE OF COMPACTION HAS BEEN ACHIEVED. IN-PLACE DENSITY TESTS SHALL ALSO BE PERFORMED AT REPRESENTATIVE LOCATIONS IN THE BEARING LEVEL SOILS IN THE RETAINING WALL FOOTING EXCAVATION BOTTOMS.

DENSITY TESTING SHALL BE IN ACCORDANCE WITH THE FOLLOWING SCHEDULE:

AREA	MINIMUM DENSITY TEST FREQUENCY
CONCRETE SLABS	1 TEST PER 2000 FT ² PER LIFT IN EXPOSED SUBGRADE, STABILIZED SOIL LAYER AND LIMEROCK BASE
ASPHALT PAVEMENT	1 TEST PER 2000 FT ² PER LIFT IN EXPOSED SUBGRADE, STABILIZED SOIL LAYER AND LIMEROCK BASE
STUMP HOLE BACKFILL	3 TESTS PER EACH TREE STUMP LOCATION
RETAINING WALL/CONTROL BOX WALL FOOTING	1 TEST PER 100 LINEAL FEET OF BEARING SURFACE

CONCRETE CYLINDER SAMPLES SHALL BE TAKEN FROM THE CONCRETE POUR AND TESTED FOR 28 DAY COMPRESSIVE STRENGTH AS FOLLOWS

	NUMBER
9" CONCRETE FUELING PAD AND TANK PAD	6 AT REPRESENTATIVE LOCATIONS
CANOPY FOUNDATIONS	2 TOTAL
RETAINING WALL	3 TOTAL IN FOOTING 2 TOTAL IN WALL

JEROME J. LESZKIEWICZ, P.E.
CONSULTING ENGINEER

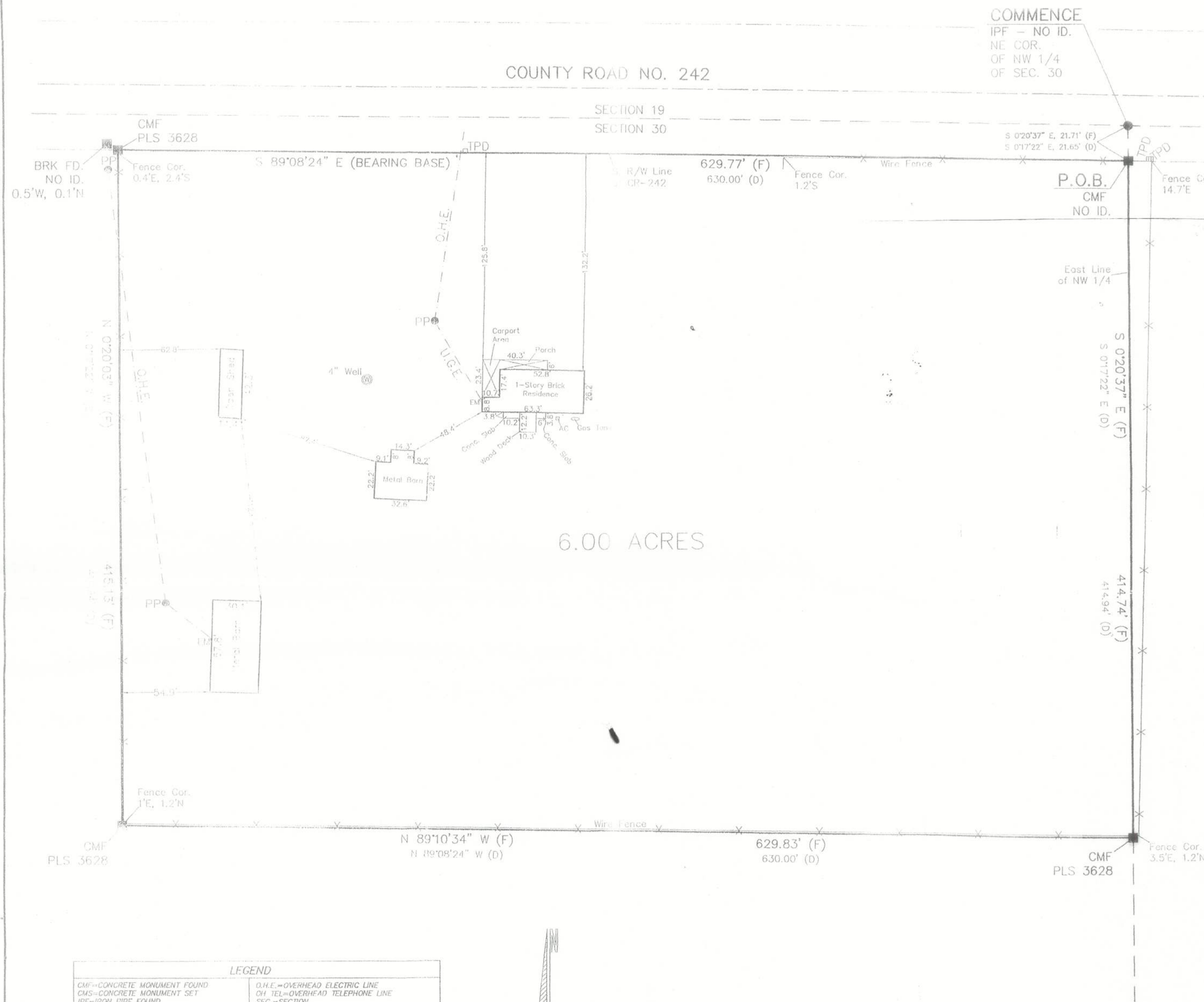
GW HUNTER, INC.
FUELING STATION 47
COLUMBIA COUNTY FLORIDA
CONTENT AND NOTES

REVISED 12/20/12

REVISED 11/28/12 SHEET 2

BOUNDARY SURVEY

IN SECTION 30
TOWNSHIP 4 SOUTH, RANGE 17 EAST
COLUMBIA COUNTY, FLORIDA



DESCRIPTION:

COMMENCE at the Northeast corner of the Northwest 1/4 of Section 30, Township 4 South, Range 17 East, then run S 00°17'22" E, along the East line of said Northwest 1/4, a distance of 21.65 feet, to a point on the South Right-of-Way line of County Road No. 242, for the POINT OF BEGINNING. Thence continue along said East line of the Northwest 1/4, S 00°17'22" E, a distance of 414.94 feet; thence run N 89°08'24" W, a distance of 630.00 feet; thence run N 00°17'22" E, a distance of 414.94 feet, to a point on the South Right-of-Way line of County Road No. 242; thence run S 89°08'24" E, along said South Right-of-Way line of County Road No. 242, a distance of 630.00 feet to the POINT OF BEGINNING. Containing 6.00 acres, more or less.

NOTES:

- 1.) Monumentation is as shown and designated on the face of the plat.
- 2.) Boundary based on monumentation found in place, description furnished by client, prior survey by this Company.
- 3.) Bearings projected from Southerly Right-of-Way line of County Road No. 242 and based on above referenced prior survey by this Company.
- 4.) Interior improvements were located by field ties.
- 5.) Underground encroachments, if present, were not located with this survey.
- 6.) This survey was made without benefit of a title search. There may be additional easements, restrictions, etc. not shown hereon but found in the Public Records. Issues regarding title, land use & zoning, easements & other encumbrances are not a part of the scope of a Boundary Survey and can only be revealed with a title search.
- 7.) Date of field survey completion: September 27, 2006.
- 8.) Examination of the Flood Insurance Rate Maps (FIRM) for Columbia County shows that, per said maps, the described parcel lies within Flood Zone "X", which according to said maps is outside of the 500 year flood plain (ref: Community Panel No. 120070 0175 B).

LEGEND	
CMF--CONCRETE MONUMENT FOUND	O.H.E.--OVERHEAD ELECTRIC LINE
CMS--CONCRETE MONUMENT SET	OH TEL--OVERHEAD TELEPHONE LINE
IPF--IRON PIPE FOUND	SEC--SECTION
IPS--IRON PIPE SET	RGE--RANGE
PLS--PROFESSIONAL LAND SURVEYOR	TWP--TOWNSHIP
P.S.M--PROFESSIONAL SURVEYOR & MAPPER	COR--CORNER
R/W--RIGHT-OF-WAY	NE--NORTHEAST
CL--CENTER LINE	NW--NORTHWEST
PL--PROPERTY LINE	SW--SOUTHWEST
PP--POWER POLE	SE--SOUTHEAST
TPD--TELEPHONE PEDESTAL	LD--LICENSED BUSINESS
IRC--IRON REBAR & CAP	P.O.B.--POINT OF BEGINNING
NO ID--NO IDENTIFICATION	(F)--FIELD MEASUREMENTS
U.G.E.--UNDERGROUND ELECTRIC	(D)--DEED MEASUREMENTS
EM--ELECTRIC METER	FD--FOUND
BRK--	

CERTIFIED TO:

- 1.) CPGroup Investments, LLC
- 2.) Millennium Bank
- 3.) Terry McDavid
- 4.) Attorneys' Title Insurance Fund, Inc.
- 5.) First American Title Insurance Company
- 6.) Old Republic National Title Insurance Company

NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL RAISED SEAL OF A FLORIDA REGISTERED PROFESSIONAL SURVEYOR AND MAPPER

Timothy A. Delbene, P.L.S.
Florida Reg. No. 5594
DATE: ____/____/2006



Donald F. Lee and Associates, Inc.

SURVEYORS ENGINEERS
140 Northwest Ridgewood Avenue, Lake City, Florida 32055
Phone: (386) 755-6166 FAX: (386) 755-6167
Certificate of Authorization # LB 7042

Date: 09/28/2006

Drafting: A V G/T A D

Computations: A V G

Checked: T A D

WESTFIELD GROUP

Scale: 1"=50'

Field Book: 05-455

Work Order: 06-5099

File: A-34-28 A



DANIEL & GORE, LLC

Professional Surveying and Mapping

P.O. BOX 1501
LAKE CITY, FL 32056
PH.: (386) 208-4176
Fax: (904) 339-9229

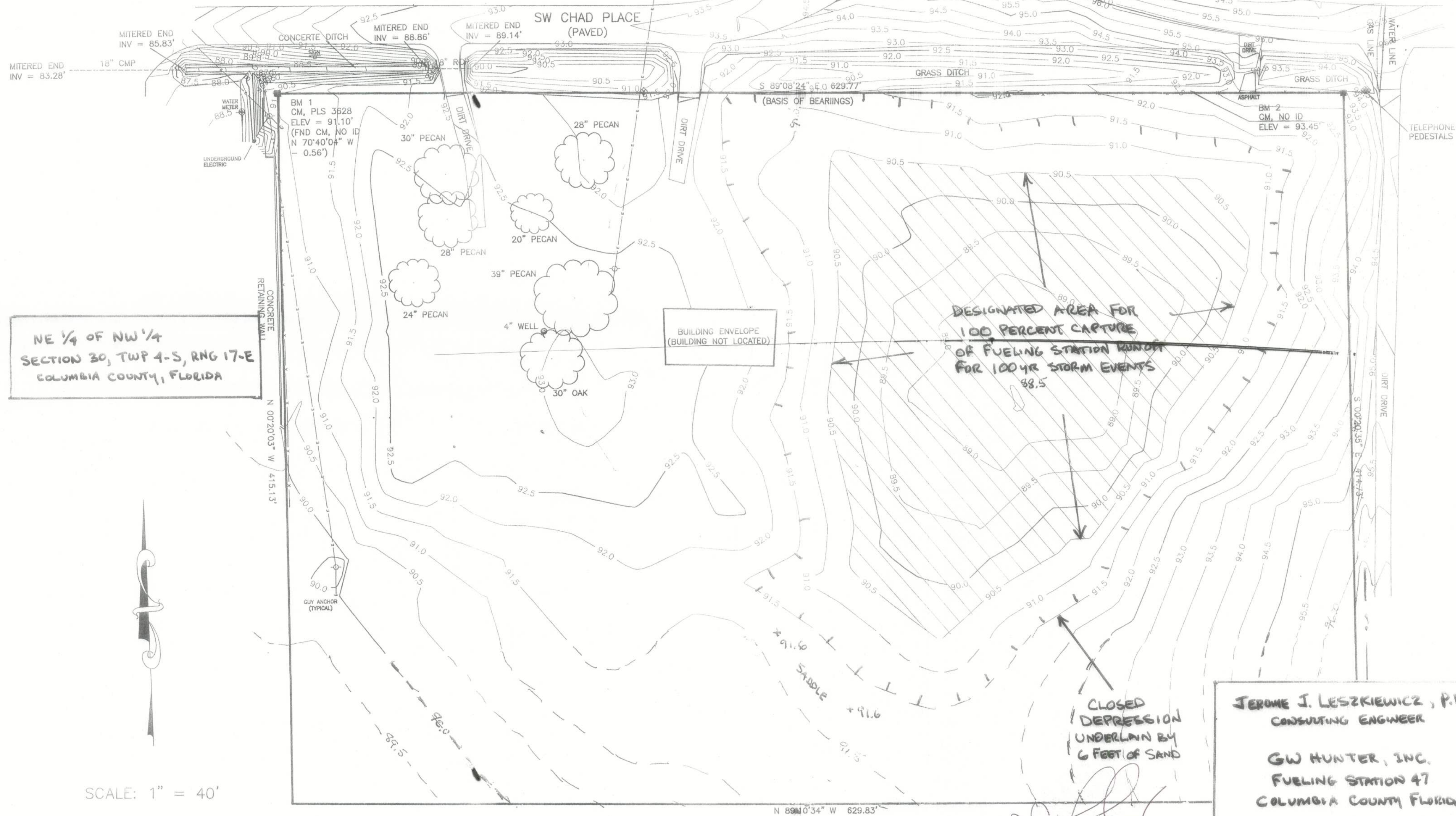
9916 84th TER.
LIVE OAK, FL 32060
Email: sdaniel@dgsurveying.com
LICENSE NO. LB 7683

Scott Daniel

BRIAN SCOTT DANIEL, PSM
PROFESSIONAL SURVEYOR AND MAPPER
FLORIDA CERTIFICATE NO. 6449

8-3-12
DATE OF CERTIFICATE

07/30/12
DATE OF FIELD SURVEY



KEY: 91.0
91.5
SURVEY BY DANIEL & GORE, LLC
7/30/12
ESTIMATED TOPOGRAPHY
BY J. LESZKIEWICZ, P.E.
FROM FIELD RECONNAISSANCE
8/14/12

NE 1/4 OF NW 1/4
SECTION 30, TWP 4-S, RNG 17-E
COLUMBIA COUNTY, FLORIDA

BUILDING ENVELOPE
(BUILDING NOT LOCATED)

DESIGNATED AREA FOR
100 PERCENT CAPTURE
OF FUELING STATION RUNOFF
FOR 100 YR STORM EVENTS

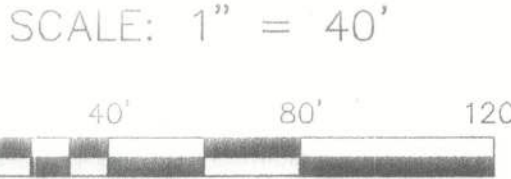
CLOSED
DEPRESSION
UNDERLAIN BY
6 FEET OF SAND

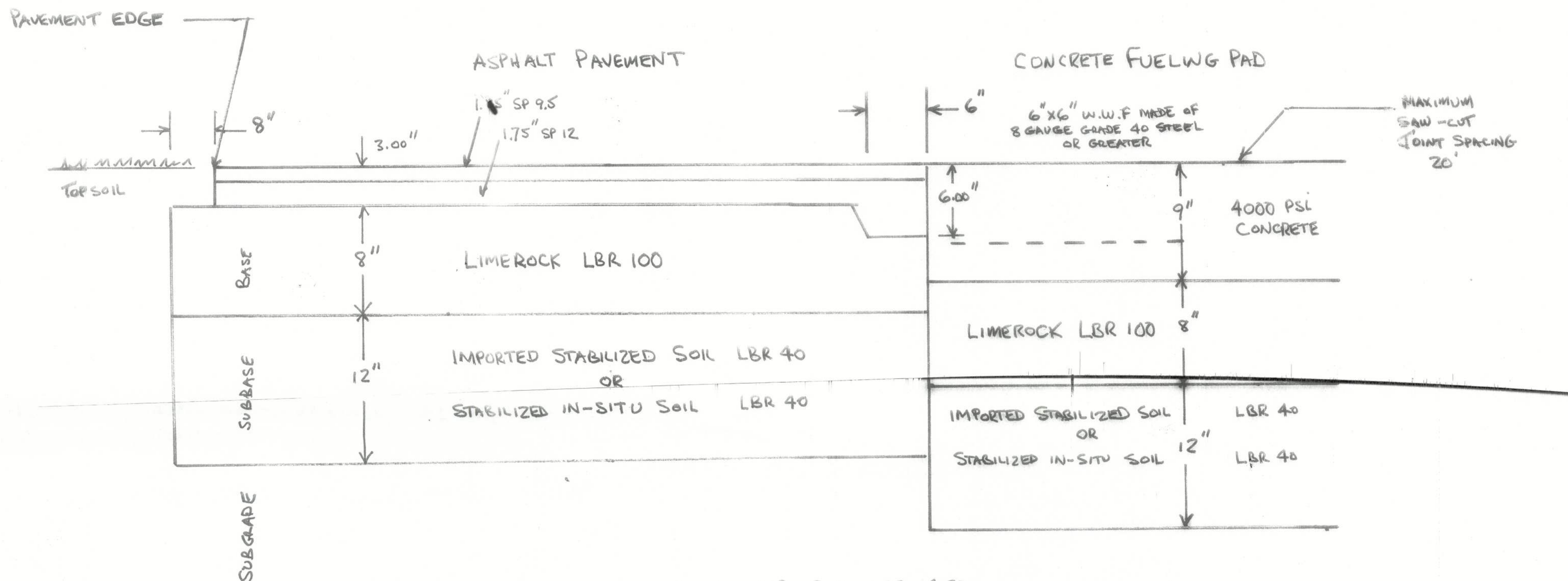
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FUELING STATION 47
COLUMBIA COUNTY FLORIDA

SITE TOPOGRAPHIC MAP

SHEET 4





UNDISTURBED SOIL LBR < 20
12" MINIMUM THICKNESS
OVER TOP OF CLAY

[Signature]
53482
11/28/12

NOTE: STABILIZATION OF IN-SITU
SOILS MAY BE ACHIEVED BY
BLENDING IN LIMEROCK IN
ACCORDANCE WITH FDOT
STANDARDS

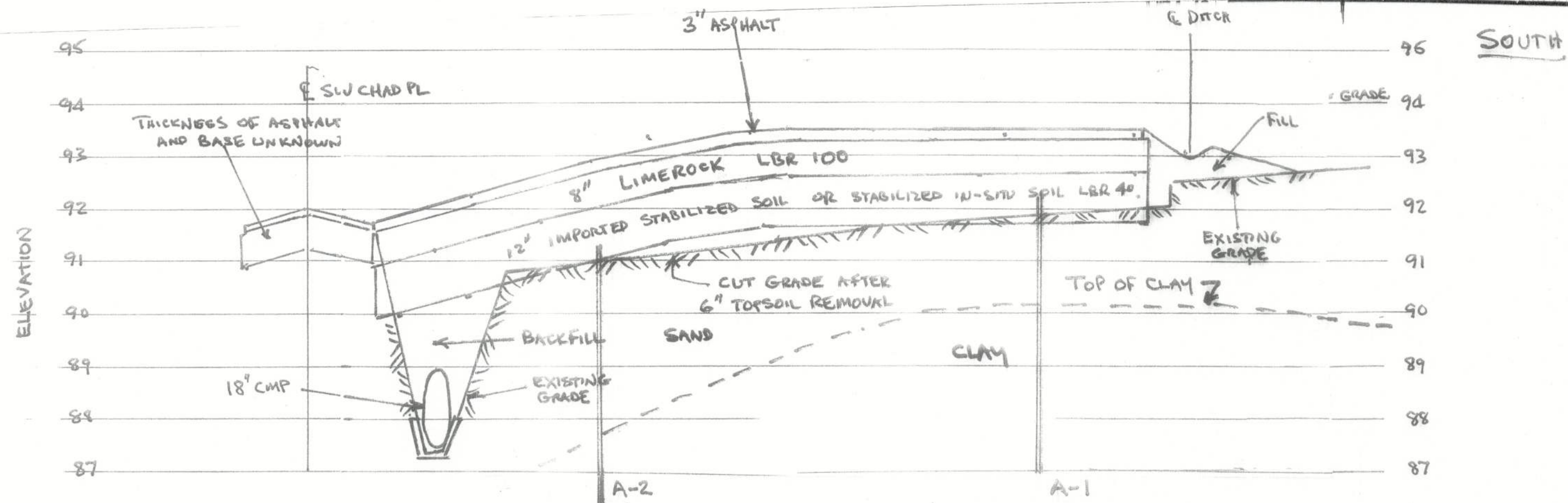
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GW HUNTER, INC.
FUELING STATION AT
COLUMBIA COUNTY FLORIDA

PAVEMENT AND FUELING PAD
SECTIONS

REVISED 11/28/12 SHEET 7

NORTH

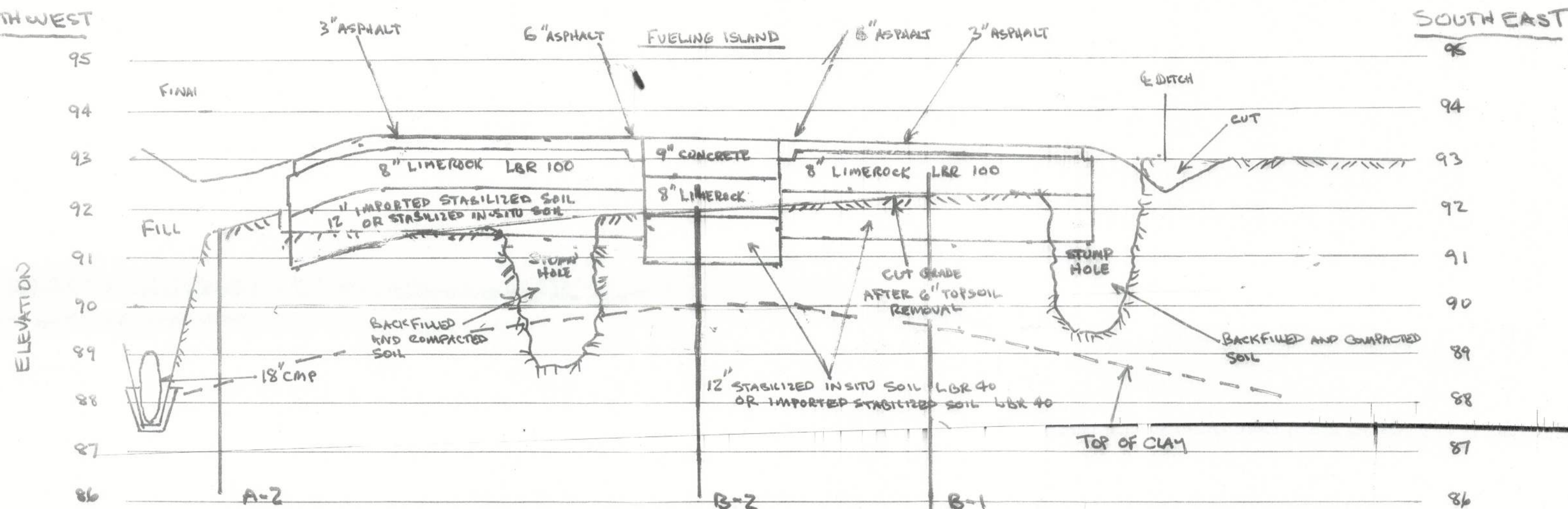


SECTION A-A

PROFILE OF WEST ENTRANCE

SCALE: HORIZONTAL 1" = 20'
VERTICAL 1" = 2'

NORTH WEST

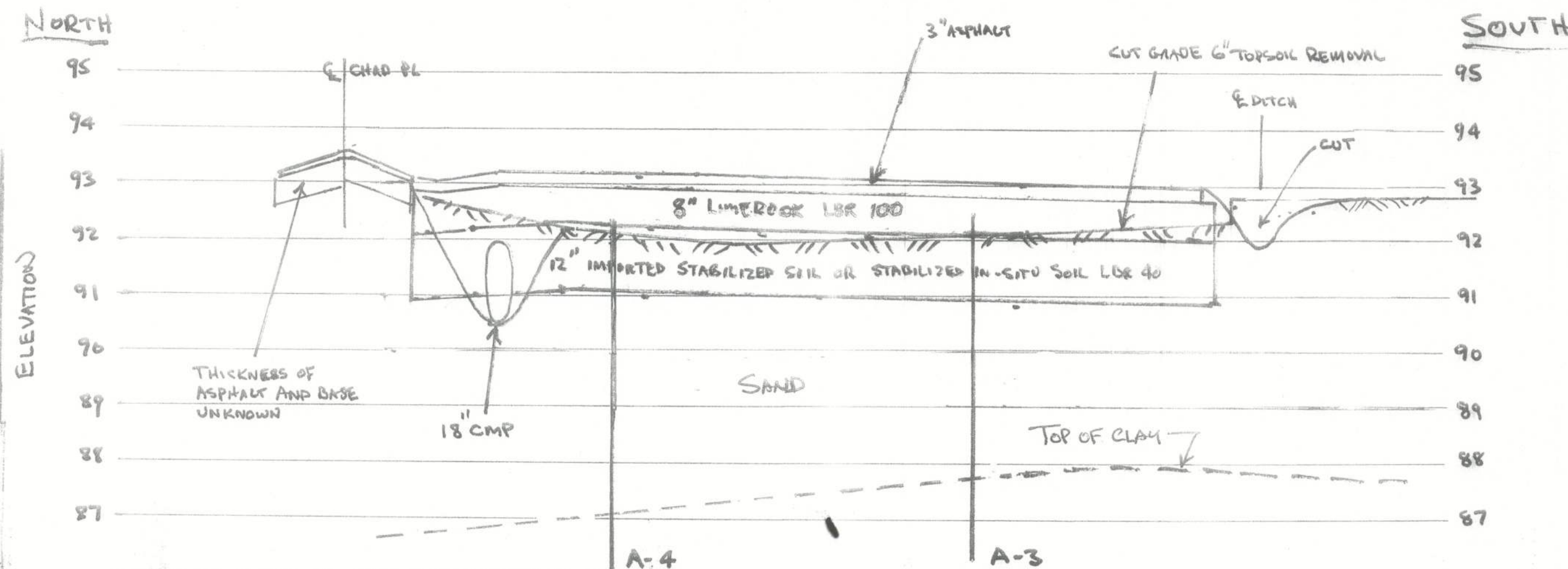


SECTION B-B

PROFILE THROUGH FUELING ISLANDS
PARALLEL TO SLOPE OF
PAVEMENT

SCALE: HORIZONTAL 1" = 20'
VERTICAL 1" = 2'

NORTH



SECTION C-C

PROFILE OF EAST ENTRANCE

SCALE: HORIZONTAL 1" = 20'
VERTICAL 1" = 2'

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GW HUNTER, INC.
FUELING STATION 47
COLUMBIA COUNTY FLORIDA
PAVEMENT PROFILES

REVISED 11/28/12 SHEET 8

ENLARGEMENT AREA
SEE SHEET 10
REVISION 2

2' TAPER 9' LONG WING WALL 6' X 5' CONCRETE APRON

EXISTING CONC DITCH (DO NOT DISTURB)

EXISTING CONC DITCH
(DO NOT DISTURB)

PIPE INV 87.40
(ON TOP OF CONC
DITCH FLOOR)

18" CMP, 58' LONG
TOP EL 92.85

MITERED END
INV. 88.55
(ON TOP OF CONC
DITCH FLOOR)

GASOLINE
FUELING
ISLAND

DIESEL
FUELING
ISLAND

EDGE OF
ASPHALT PAVEMENT

EDGE OF
CANOPY

9" CONCRETE
FUELING
PAD

8" CONCRETE
FUEL TANK PAD
14.0' X 33.5'

FUEL TANK
10.0' X 31.5'

TANK
VENTS

EXISTING
4" IRRIGATION WELL
(RAISE CAP FROM 92.9
TO 93.2')

NEW ELECTRIC
DROP POLE

18" CMP, 73' LONG

MITERED END
INV 90.40

MITERED END
INV 90.55

4' 6" DEEP DITCH

4' 6" DEEP DITCH

NOTE: ALL SHALLOW, ON-SITE
DRAINAGE DITCHES SHALL BE
TODDED UP BOTH SIDESLOPES
A DISTANCE OF 30' FROM THE
DITCH INVERT WITH BERMUDA
GRASS PER FDOT STANDARDS

NOTE: ALL AREAS DISTURBED BY CONSTRUCTION
SHALL BE SEEDED AND MULCHED PER
FDOT STANDARDS

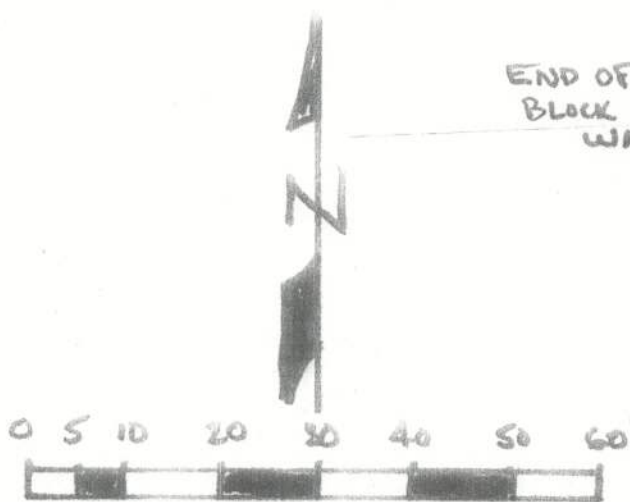
THE REGRADED COUNTY DRAINAGE DITCH
SHALL BE SODDED ON THE DITCH FLOOR
AND 5' UP BOTH SIDESLOPES (SEE SHEET 13)
WITH BAHIA GRASS AS PER FDOT STANDARDS

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FUELING STATION 47
COLUMBIA COUNTY FLORIDA

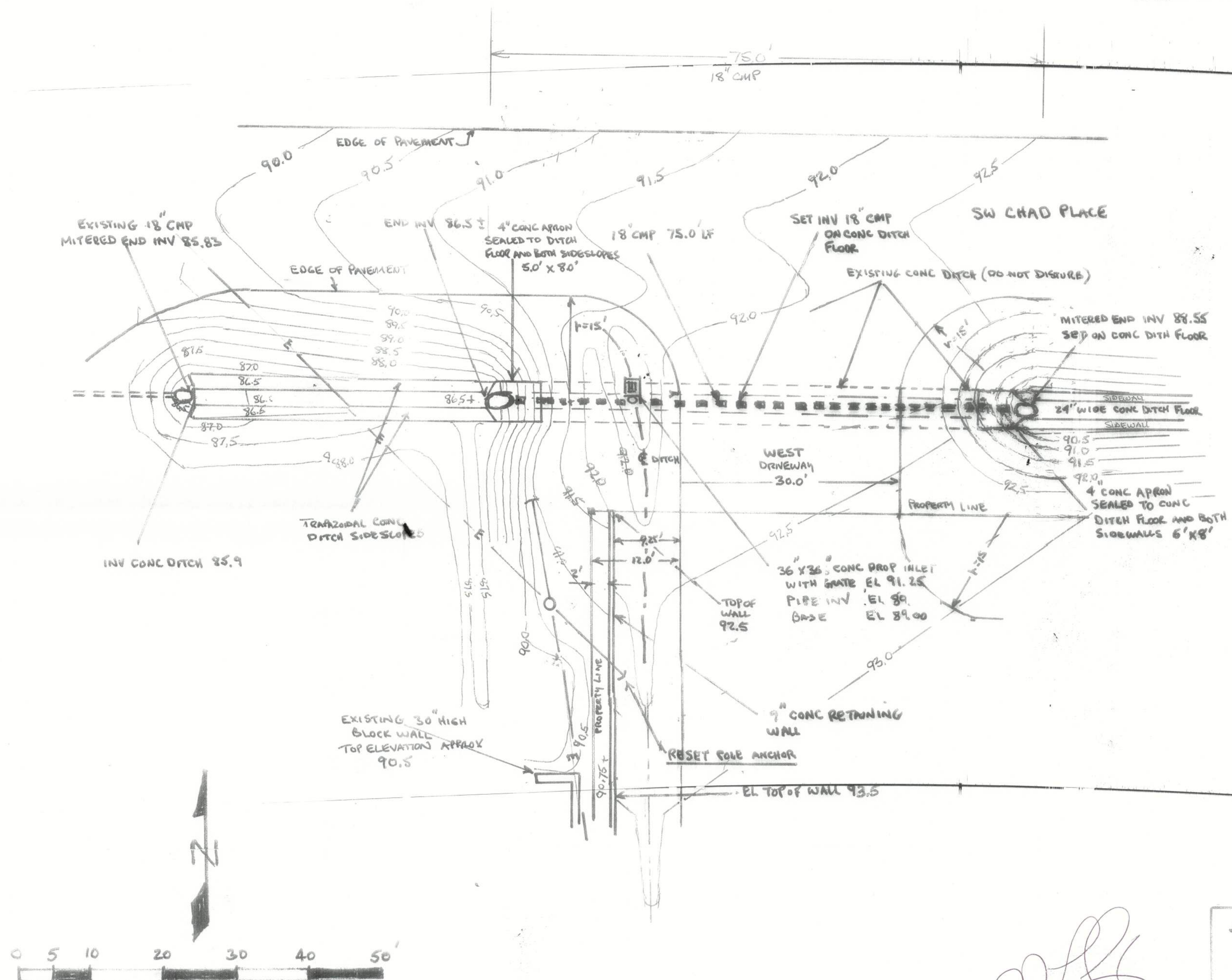
GRADING AND DRAINAGE PLAN

REVISED 11/28/12 SHEET 9



SCALE: 1" = 20'

NOTE: FIFTEEN FOOT RADIUS CORNERS
TO BE USED ON EAST DRIVEWAY



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12/20/12

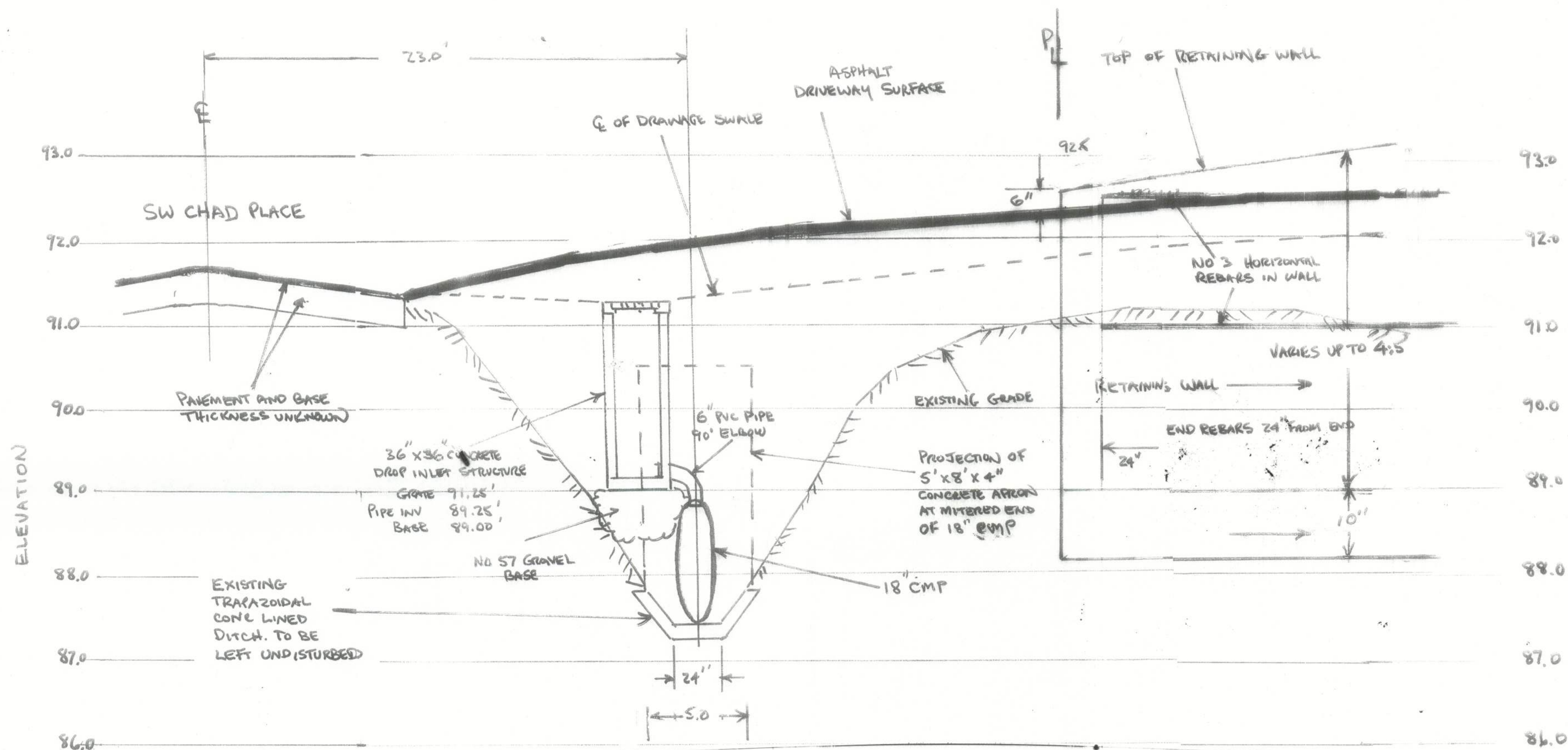
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JEROME J. LESZKIEWICZ, P.E.
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GW HUNTER, INC.
FUELING STATION #7
COLUMBIA COUNTY FLORIDA
WEST ENTRANCE & DITCH
ENLARGEMENT
REVISED 11/28/12 SHEET 10

NORTH

SOUTH



SCALE: HORIZONTAL 1" = 4.0'
VERTICAL 1" = 1.0'

SECTION D-D
RETAINING WALL / END WALL PROFILE
ACROSS COUNTY DRAINAGE DITCH

NOTE:
LENGTH OF ENTIRE RETAINING WALL
152.0'

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53482
12/20/12

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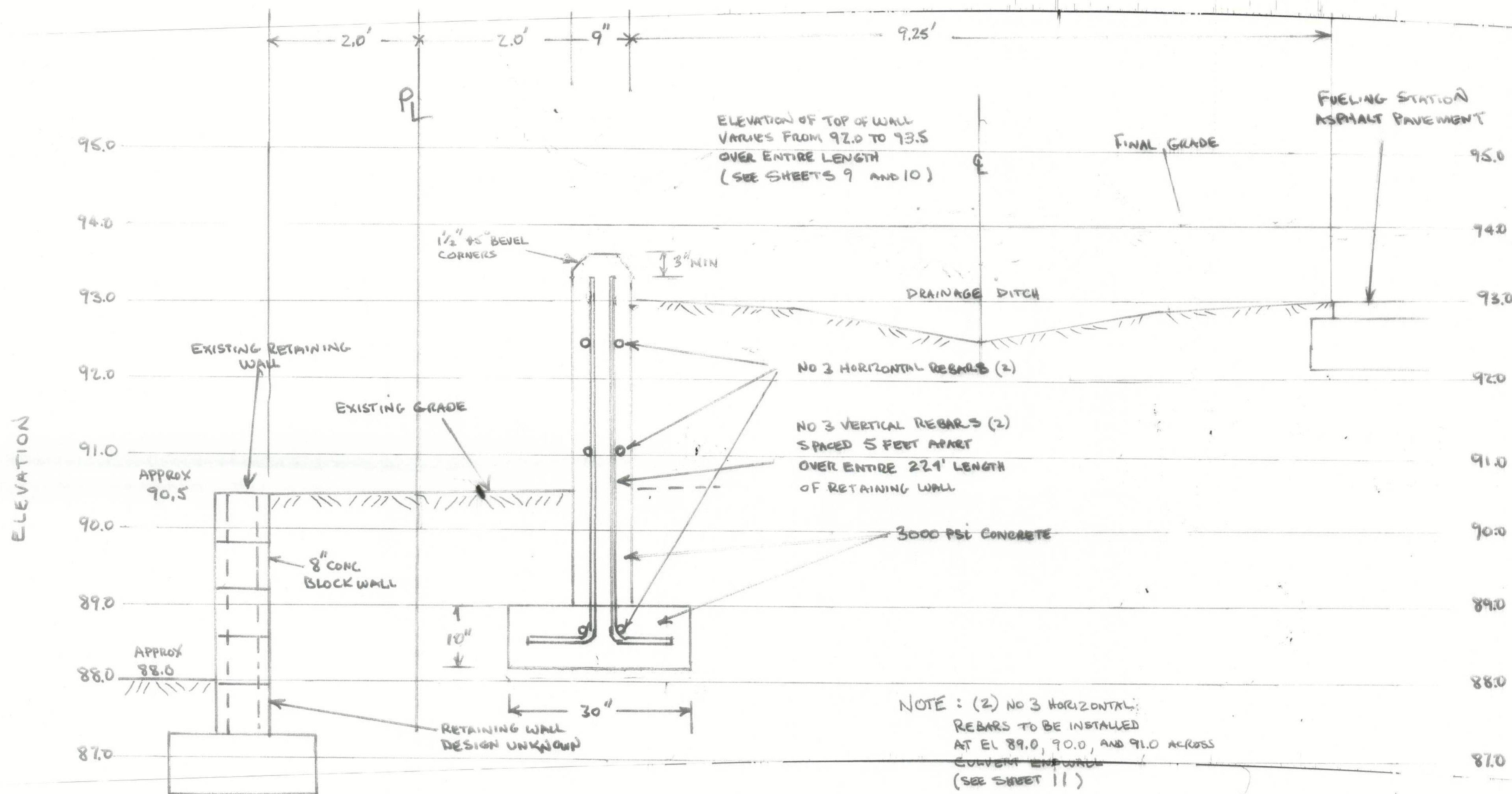
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FUELING STATION 47
COLUMBIA COUNTY FLORIDA

RETAINING WALL / DITCH END
WALL PROFILE

REVISION 11/28/12 SHEET 11

WEST

EAST



SCALE: HORIZONTAL 1" = 1.0'
VERTICAL 1" = 1.0'

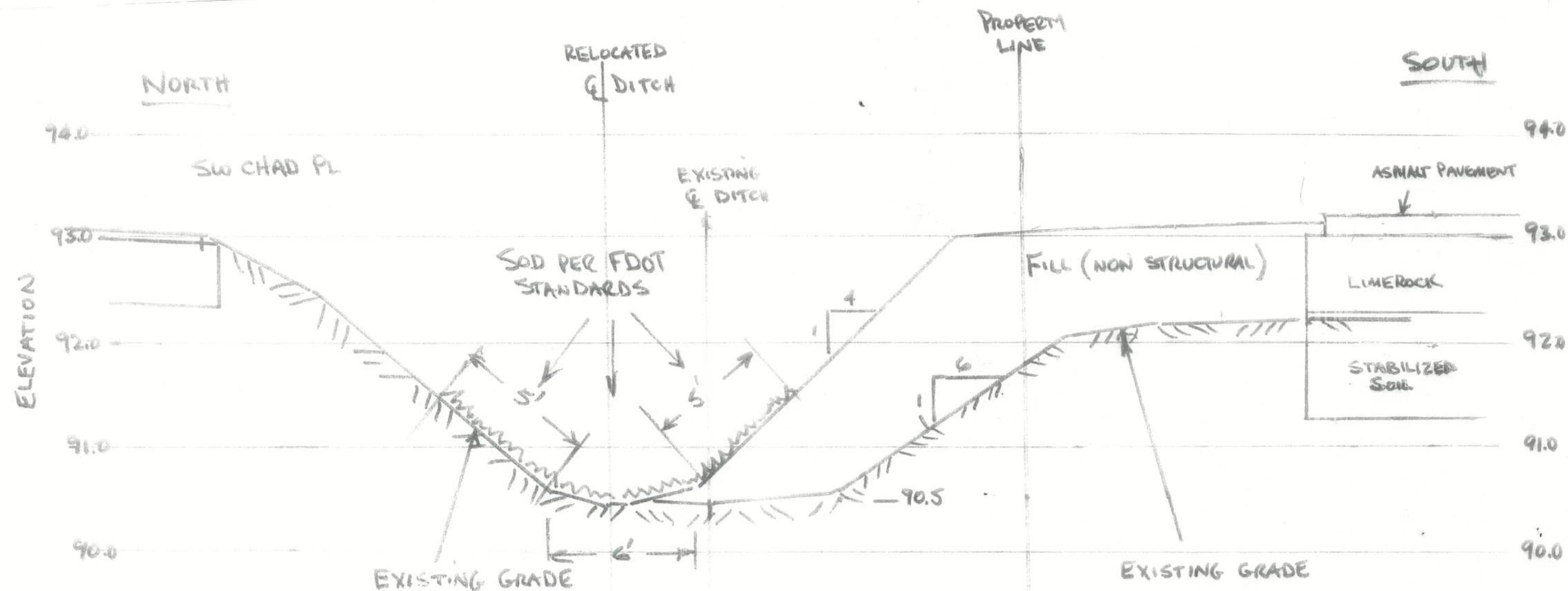
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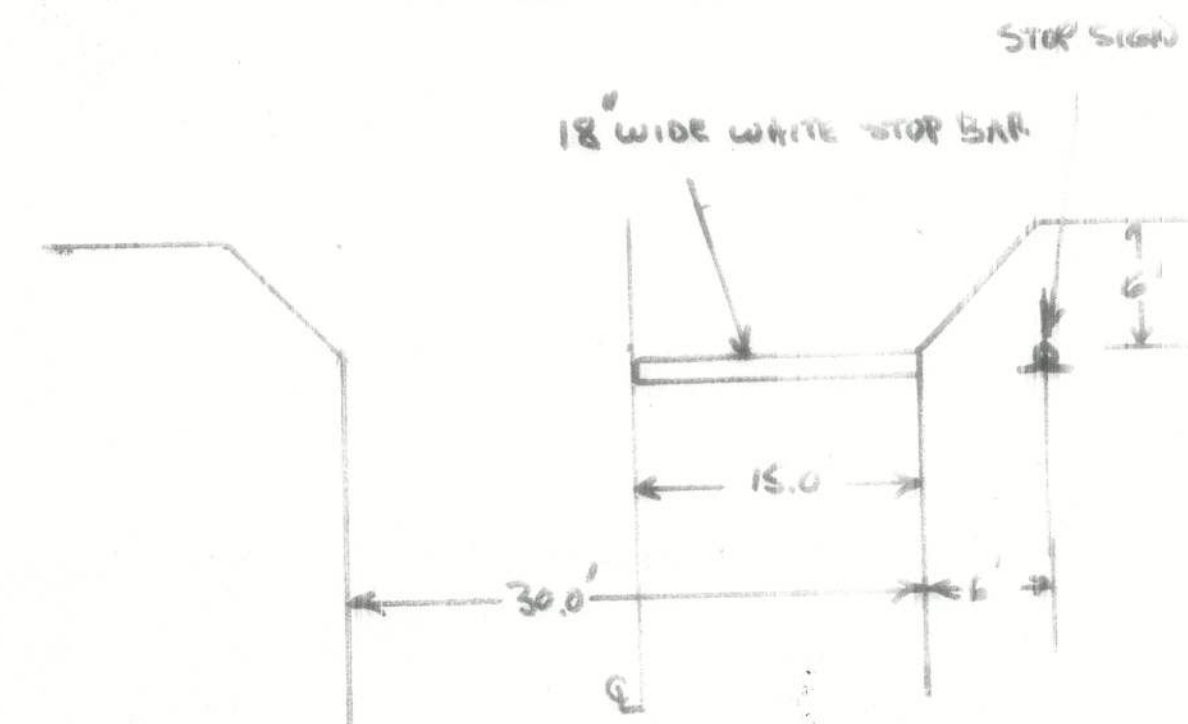
RETAINING WALL DESIGN

REVISED 11/28/12 SHEET 12

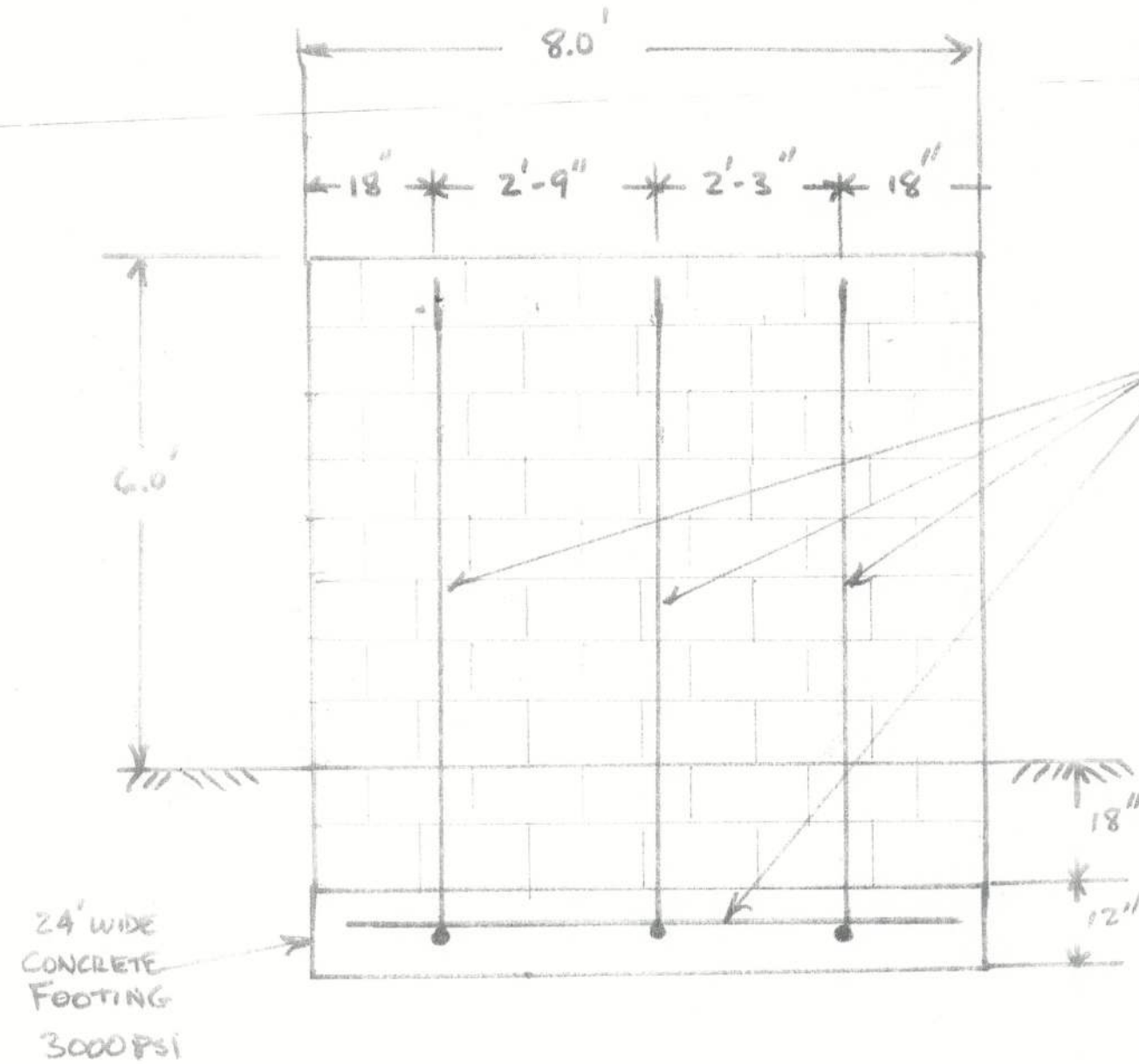


SECTION E-E
RECONSTRUCTED SOUTH BANK OF
COUNTY DRAINAGE DITCH

SW CHAD PLACE

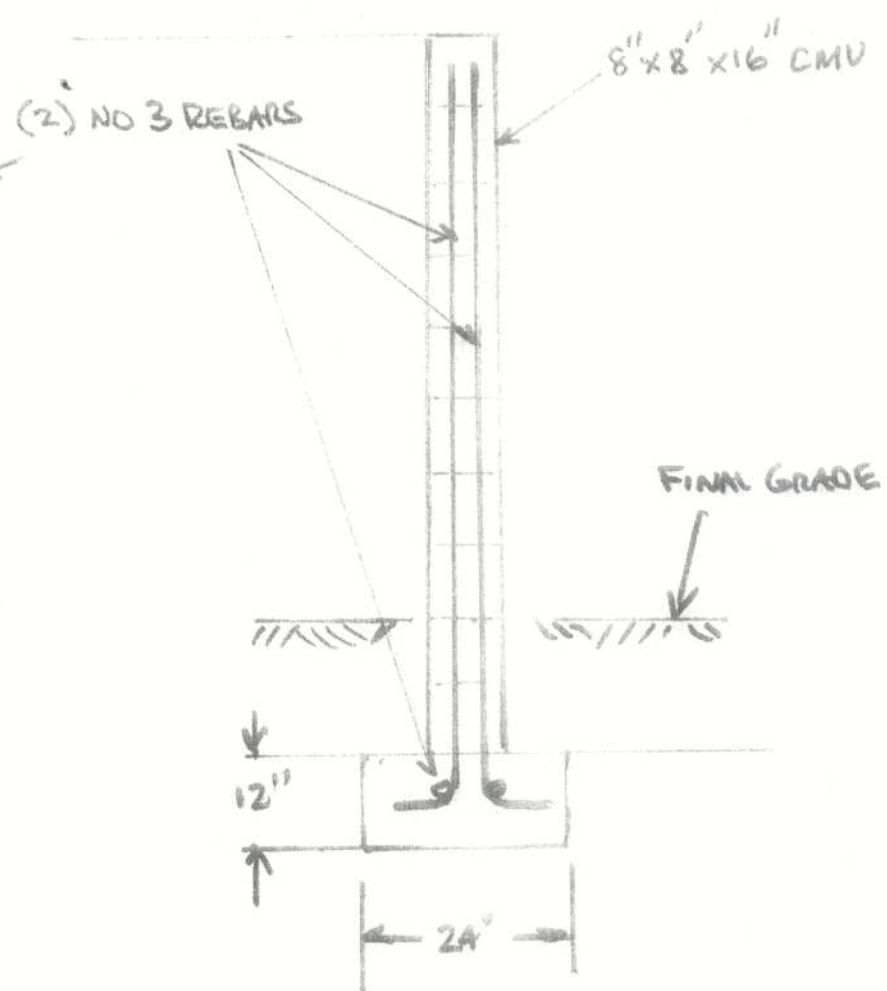


ENTRANCE DRIVEWAY
PAVEMENT MARKING AND SIGNAGE



CONTROL PANEL BLOCK WALL

CONCRETE FILLED
BLOCK WALL



53482
11/28/12

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FUELING STATION 47
COLUMBIA COUNTY FLORIDA

MISCELLANEOUS DETAILS

REVISED 11/28/12 SHEET 13

