Springstead Engineering, inc.
Consulting Engineers — Planners — Surveyors

727 South 14th Street
Leesburg, Florida 34748

Lake (904) 787-1414
Sumter (904) 793-3639
Fax (904) 787-7221

February 9, 1999

D.E.P.
FEB 10 1999
Southwest District Tampa

Ms. Susan J. Pelz, P.E.
Solid Waste Section
Southwest District
Department of Environmental Protection
3804 Coconut Palm Drive
Tampa, Florida 33619

RE: **Composting Facility Finishing Building #2**
Pending Permit No. 126940-003-SC, Sumter County
SEI File No. 921100.010

Dear Ms. Pelz:

We are in receipt of your fax dated 2/4/99 regarding the draft RAI for the above referenced permit. Please find the following responses:

1. Sheet 2 of 7, Site Plan. Please specify the date of the contours shown. Please clarify if the proposed asphalt is milled asphalt or finished asphalt pavement.

1. **The original contours for the site were developed using aerial photogrammetry from 3/30/94 and are shown around the perimeter of the site. The existing WRA contours on the south and west sides of the MRF buildings were developed and checked soon after the MRF and digester were completed. The contours for the existing WRA-1 shown on the revised site plan were obtained 1/18/99. The spot shots on the driveway to the existing finish building were gathered on 10/26/98.**

   The proposed asphalt will be milled (Please refer to the revised site plan).

2. Sheet 4 of 7, Foundation Plan. Please provide the grades outside the building.

2. **Please refer to the revised site plan included with this response.**

3. Sheets 5 and 6 of 7, Elevations. Please note the finished grade elevations outside the building for the elevation views. Sheet 6 of 7 appears to show the new building joining the existing building. If this is the case, please provide details on the building connections, and the joining of the foundations. If the buildings will not be connected, please explain (and provide details as necessary) how

FILE

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stormwater which enters the area between the buildings, and how spillage from the Scarab's movement between buildings, will be managed.

3. **The south end bent of the existing building will be the north end bent of the new building. The column supporting the south end of the old building will also support the north end of the new building. The foundation and column are the same size as the existing interior columns so no structural changes are necessary to accommodate the new building at this location. Roofing will be continuous from the existing to the new building. No gap will be present in the roofing between the existing building and the building addition.**

I trust this information meets your needs at this time. Should you have any questions, please contact our office.

Very truly yours,
Springstead Engineering, Inc.

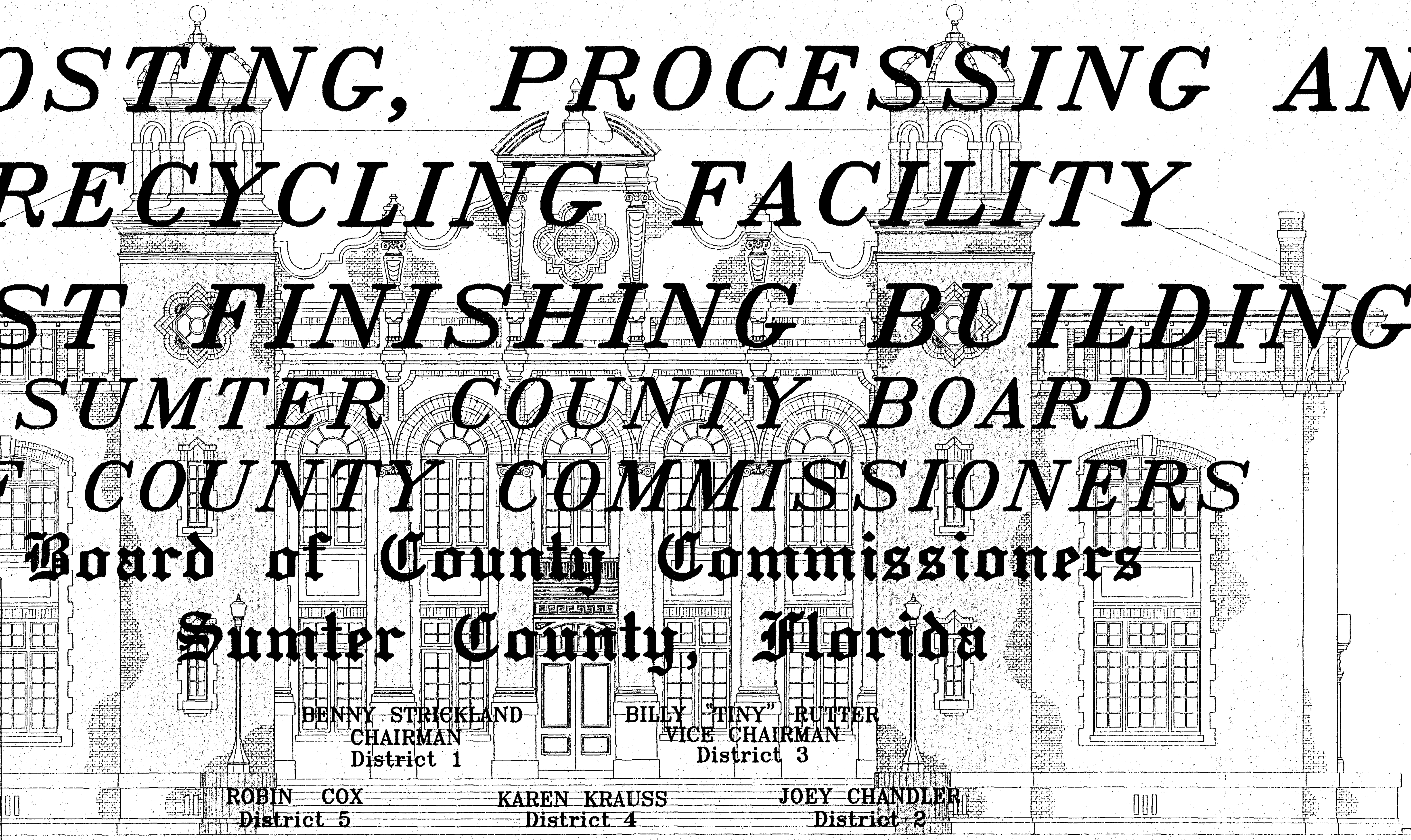
2/9/99

David W. Springstead, P.E.
Florida Registration No. 48229

DWS/jai

952911
①

SUMTER COUNTY
COMPOSTING, PROCESSING AND RECYCLING FACILITY
COMPOST FINISHING BUILDING-2
SUMTER COUNTY BOARD OF COUNTY COMMISSIONERS
Board of County Commissioners
Sumter County, Florida



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BILLY "TINY" RUTTER
VICE CHAIRMAN
District 3

ROBIN COX
District 5

KAREN KRAUSS
District 4

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COUNTY ADMINISTRATOR

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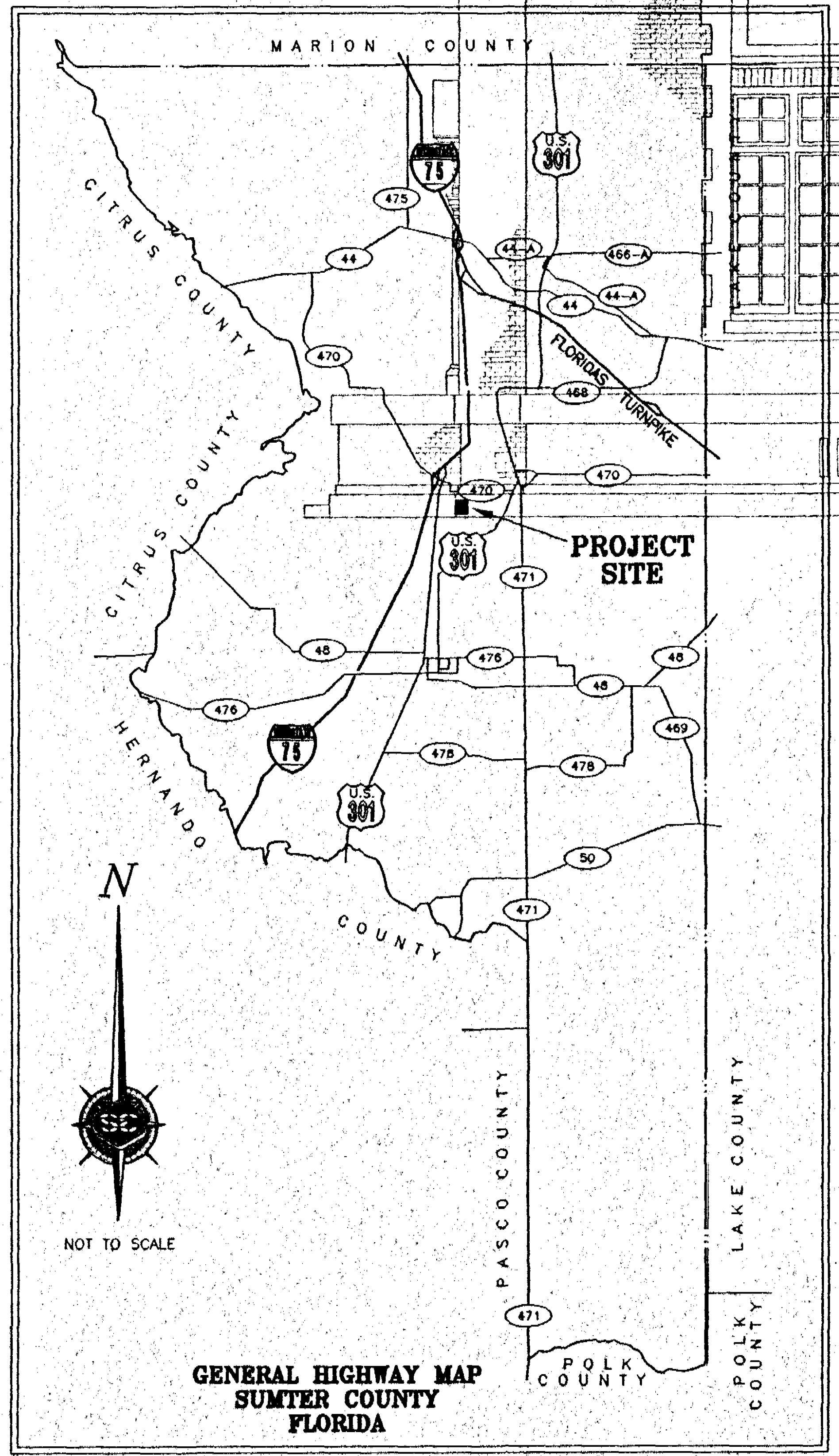
DIRECTOR OF PUBLIC WORKS

TOMMY HURST
ASST. DIRECTOR OF PUBLIC WORKS

TERRY HURST
FACILITY DIRECTOR



GENERAL HIGHWAY MAP
SUMTER COUNTY
FLORIDA

INDEX

DESCRIPTION	SHEET
COVER SHEET	1
SITE PLAN	2
FLOOR PLAN	3
FOUNDATION PLAN	4
ELEVATIONS	5
ELEVATIONS	6
ELECTRICAL PLAN	7
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D.E.P.
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Southwest District Tampa

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
FEB 1 0 1999
SOUTHWEST DISTRICT TAMPA

REV.	BY:	DESCRIPTION	DATE:	DRAWN

CLIENT: SUMTER COUNTY BOARD OF COUNTY COMMISSIONERS
PROJECT: COMPOST FINISHING BUILDING-2
DRAWING: COVER SHEET
1 of 7

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SCALE:	FILE:	DATE:
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RMC-3	JMW	

DRAWING: COVER SHEET
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92-1100.010	OF: 7

DAVID W. SPRINGSTEAD

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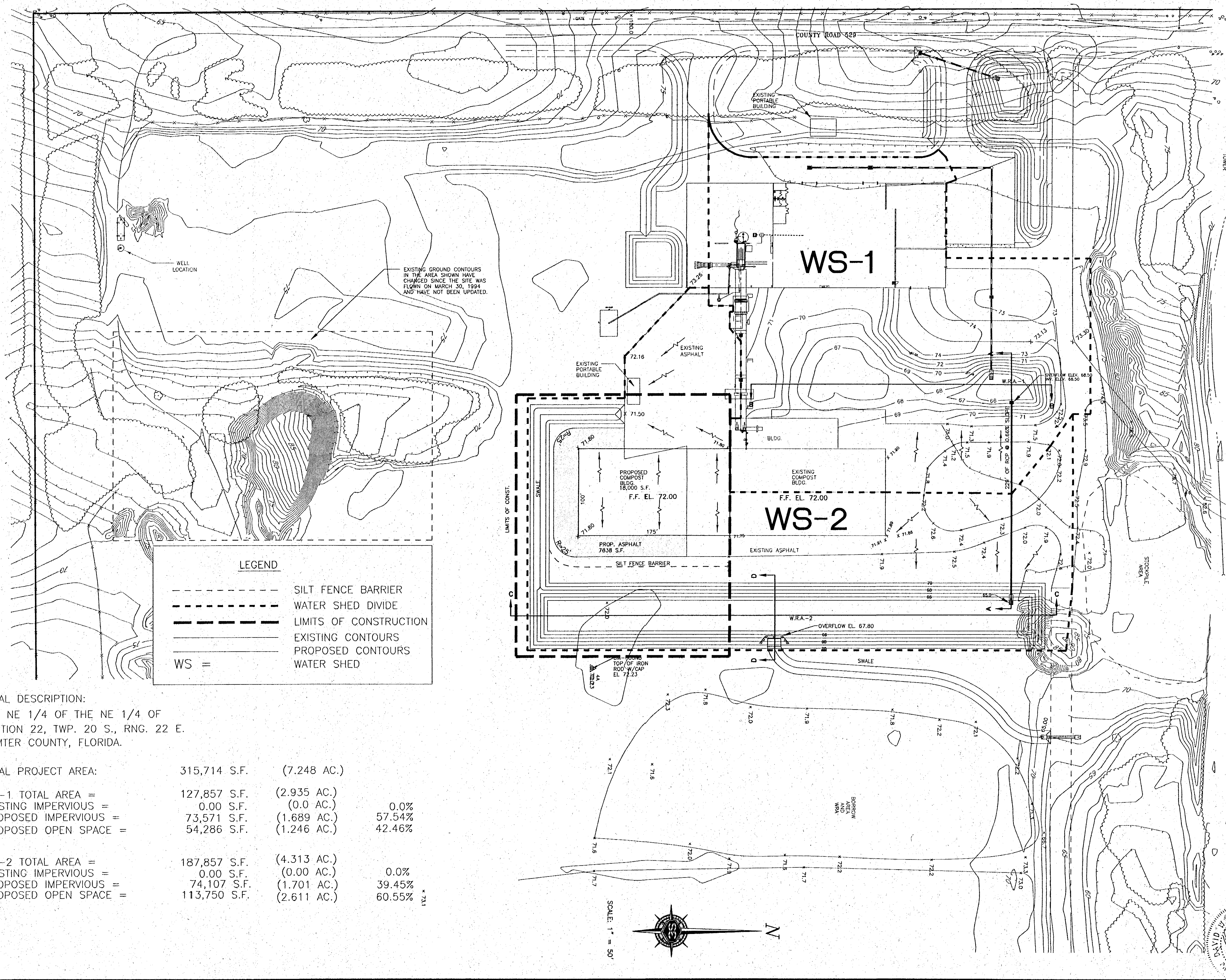

EXISTING GROUND CONTOURS IN THE AREA SHOWN HAVE CHANGED SINCE THE SITE WAS FLOWN ON MARCH 30, 1994 AND HAVE NOT BEEN UPDATED.

LEGEND

- - - - - - - -	SILT FENCE BARRIER
- - - - - - - -	WATER SHED DIVIDE
▬ ▬ ▬ ▬	LIMITS OF CONSTRUCTION
————————	EXISTING CONTOURS
————————	PROPOSED CONTOURS
WS =	WATER SHED

LEGAL DESCRIPTION:

THE NE 1/4 OF THE NE 1/4 OF
SECTION 22, TWP. 20 S., RNG. 22 E.
SUMTER COUNTY, FLORIDA.

TOTAL PROJECT AREA:	315,714 S.F.	(7.248 AC.)	
WS-1 TOTAL AREA =	127,857 S.F.	(2.935 AC.)	
EXISTING IMPERVIOUS =	0.00 S.F.	(0.0 AC.)	0.0%
PROPOSED IMPERVIOUS =	73,571 S.F.	(1.689 AC.)	57.54%
PROPOSED OPEN SPACE =	54,286 S.F.	(1.246 AC.)	42.46%
WS-2 TOTAL AREA =	187,857 S.F.	(4.313 AC.)	
EXISTING IMPERVIOUS =	0.00 S.F.	(0.00 AC.)	0.0%
PROPOSED IMPERVIOUS =	74,107 S.F.	(1.701 AC.)	39.45%
PROPOSED OPEN SPACE =	113,750 S.F.	(2.611 AC.)	60.55%

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RMC-3	CHANGES PER D.E.P. RAI	02-09-99	

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PROJECT:
COMPOST FINISHING BUILDING-2

DRAWING:
SITE PLAN

2 of 7

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SCALE:	FILE:	DATE:
1" = 50'	COMSITE	12/98
DESIGN:	**DRAWN:**	**CHECKED:**
RMC-3	lmw	

DRAWING: SITE PLAN COMPOST FINISHING BLDG.-2

CLIENT: SCBCC

JOB NO.:	SHEET: 2
921100.010	OF: 7

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
FEB 10 1999
SOUTHWEST DISTRICT
TAMPA

DAVID W. SPRINGSTEAD
2/9/99

FEB 09 1999

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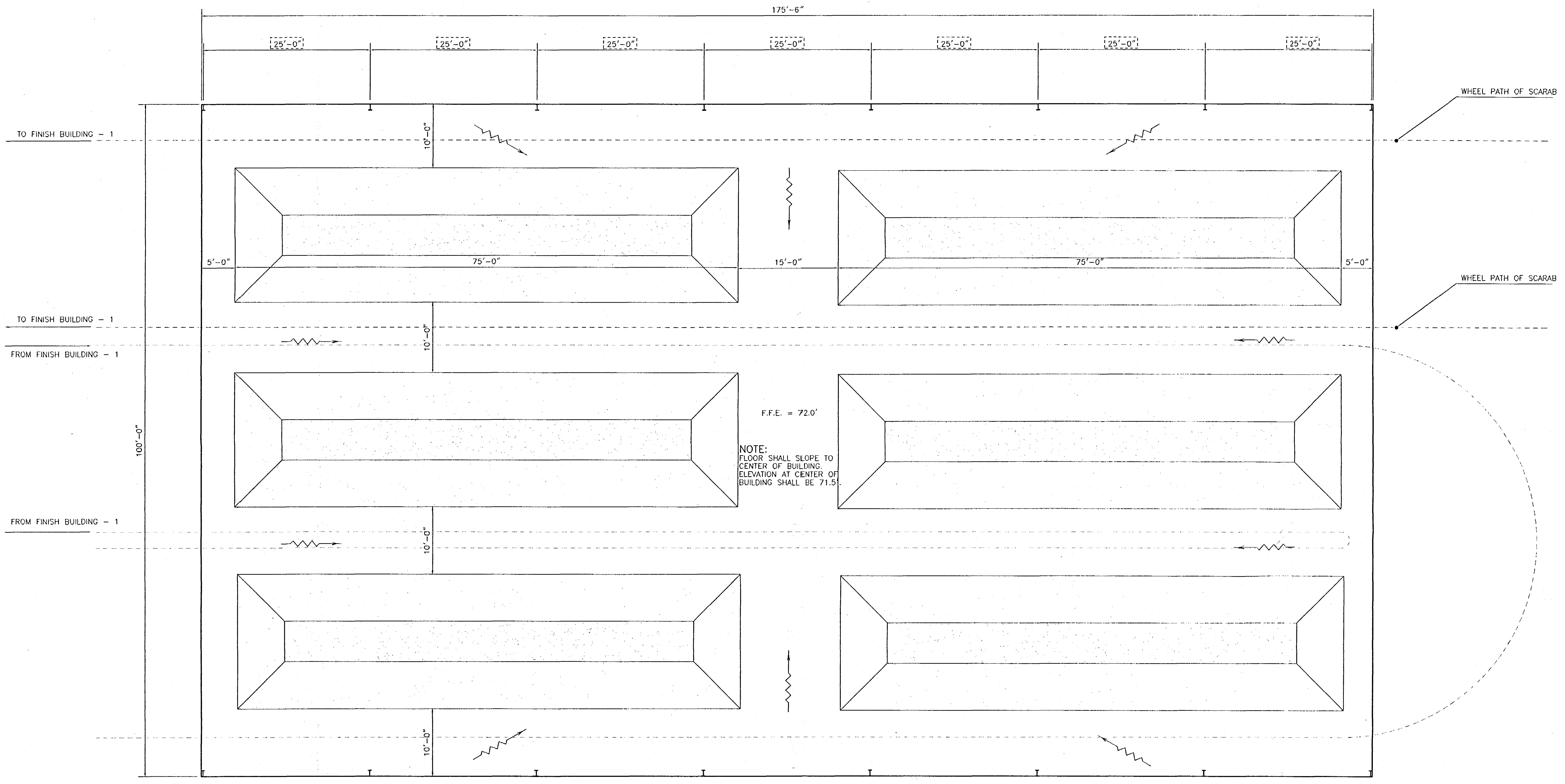

NOTE:
FLOOR SHALL SLOPE TO CENTER OF BUILDING. ELEVATION AT CENTER OF BUILDING SHALL BE 71.5'.

COMPOST FINISH BUILDING ADDITION DESIGN CAPACITY:

TOTAL VOLUME OF COMPOST IN EACH ROW = 229.2 CY
TOTAL VOLUME OF COMPOST IN BUILDING ADDITION – 229.2 CY X 6 ROWS = 1,375 CY
TOTAL VOLUME OF COMPOST IN TOTAL BUILDING = 2,520 CY

25'-0" = BAY WIDTH

NOTE:
BAY WIDTH MAY BE REDUCED TO 20'-0" IF BUILDING IS LENGTHENED TO 180'-0".

NORTH

FLOOR PLAN
SCALE: 1/8" = 1'-0"

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
FEB 1 0 1999
SOUTHWEST DISTRICT
TAMPA

DAVID W. SPRINGSTEAD
NO. 48217

REV. BY:	DESCRIPTION	DATE:	DRAWN

CLIENT:
SUMTER COUNTY BOARD OF COUNTY COMMISSIONERS
PROJECT:
COMPOST FINISHING BUILDING-2
DRAWING:
FLOOR PLAN

3 of 7

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SCALE:	FILE:	DATE:
1/8"=1'	FL	1/08/99
DESIGN:	DRAWN:	CHECKED:
RMC-3		

DRAWING:
COMPOST FINISHING BUILDING
FLOOR PLAN

CLIENT:
SCBCC

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921100.010	OF: 7

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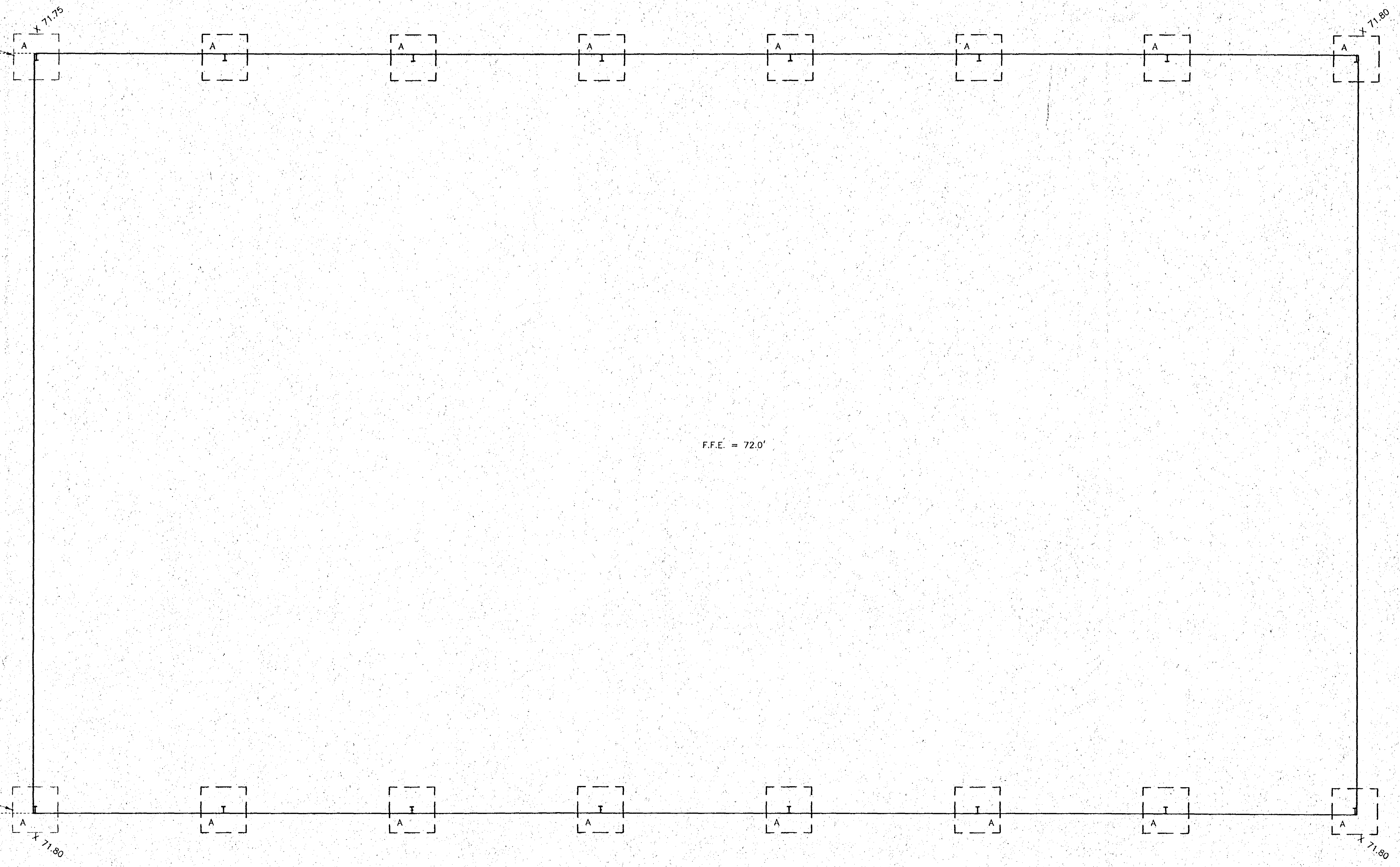
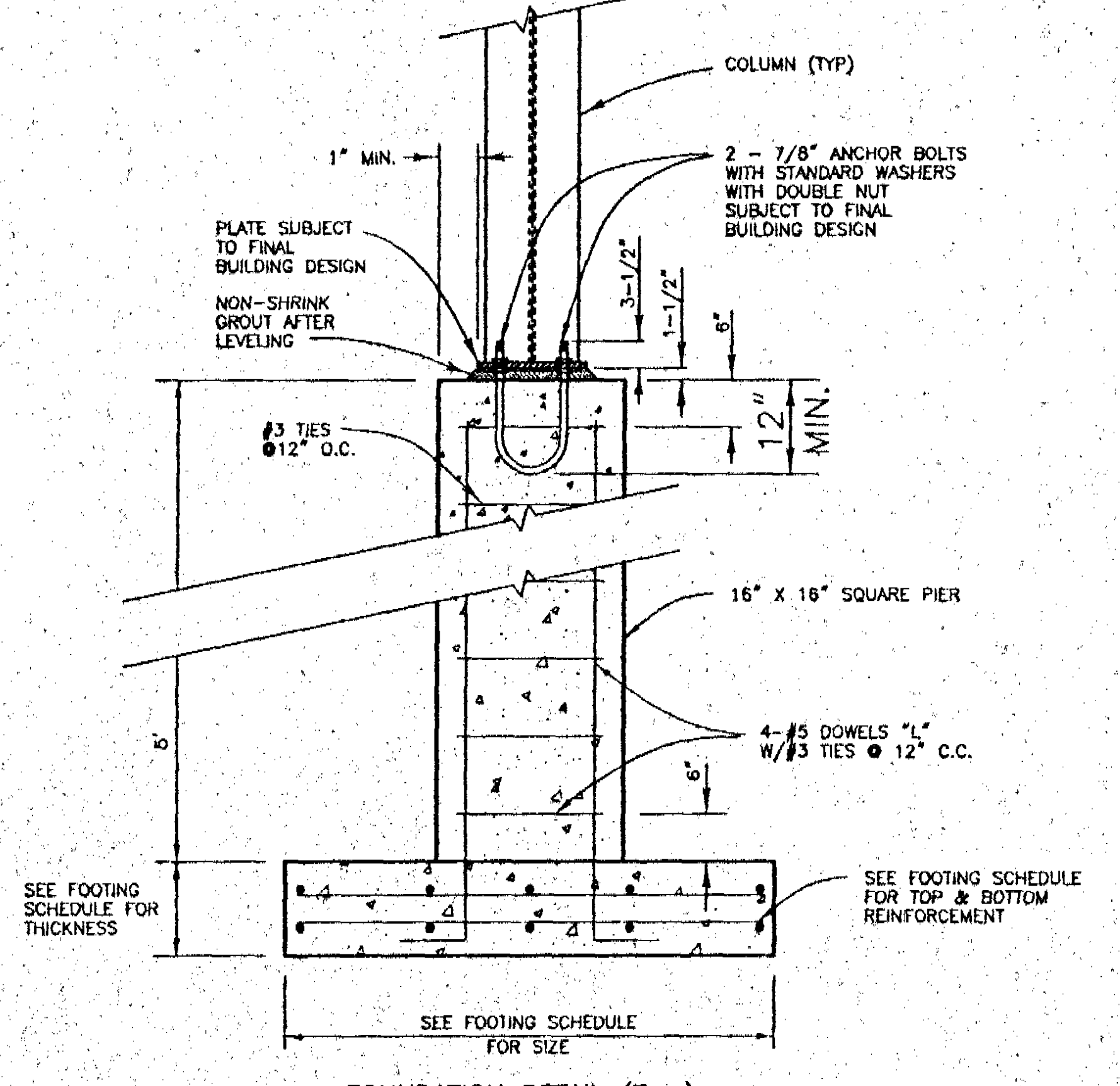
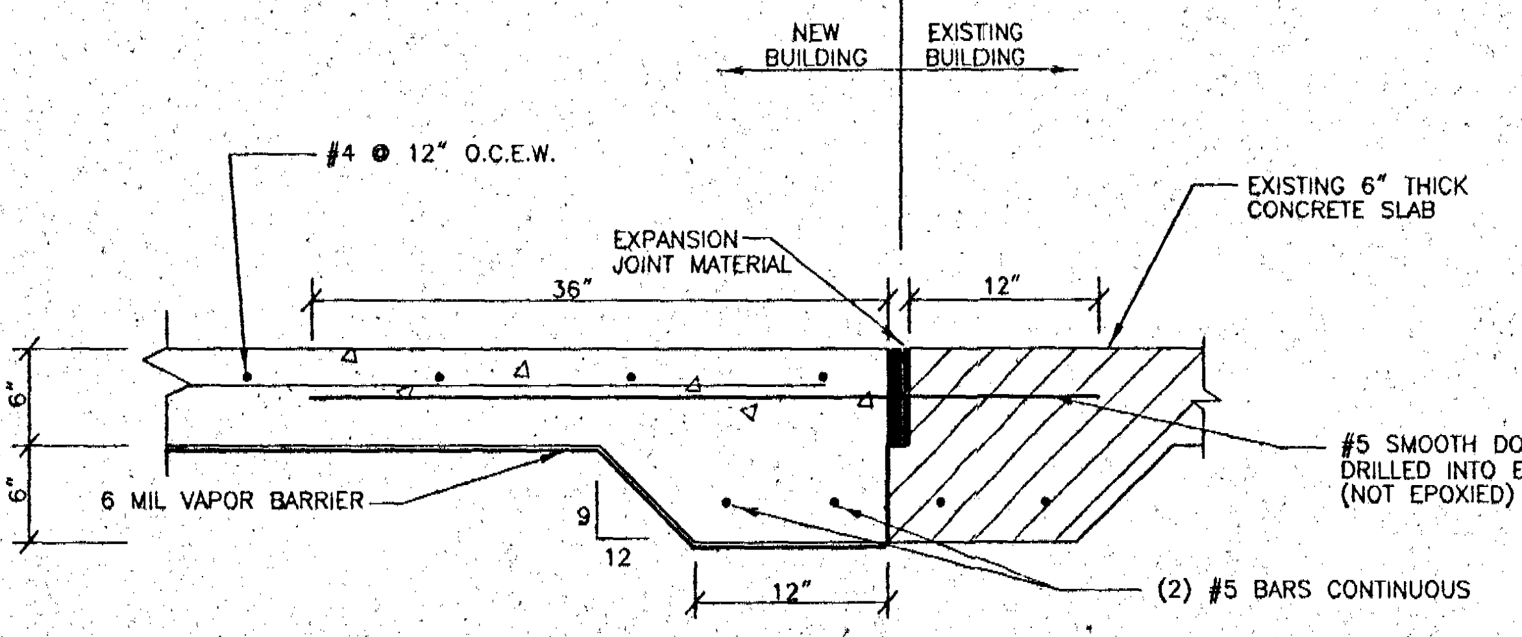



COLUMN (TYP)
1" MIN.
2 – 7/8" ANCHOR BOLTS WITH STANDARD WASHERS WITH DOUBLE NUT SUBJECT TO FINAL BUILDING DESIGN
PLATE SUBJECT TO FINAL BUILDING DESIGN
NON-SHRINK GROUT AFTER LEVELING
3-1/2"
1-1/2"
6"
12" MIN.
#3 TIES @12" O.C.
16" X 16" SQUARE PIER
5'
4-#5 DOWELS "L" W/#3 TIES @ 12" C.C.
6"
SEE FOOTING SCHEDULE FOR THICKNESS
SEE FOOTING SCHEDULE FOR TOP & BOTTOM REINFORCEMENT
SEE FOOTING SCHEDULE FOR SIZE

FOUNDATION DETAIL (Typ.)
not to scale



1. PROVIDE 3" CLEAR COVER AROUND REINFORCEMENT IN CONCRETE EXPOSED TO EARTH.

SLAB EDGE DETAIL
SCALE: NOT TO SCALE

FOUNDATION NOTES:

1. ALL CONCRETE TO BE 3000 P.S.I. AT 28 DAY STRENGTH.
2. BILLET STEEL BARS FOR REINFORCING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-615, GRADE 60,
3. FOUNDATION DESIGN IS BASED ON A SOIL BEARING CAPACITY OF 3000 PSF AS INDICATED IN SOILS REPORT BY CENTRAL TESTING LABORATORIES.
4. SOIL SHALL BE TREATED FOR TERMITES BY A LICENSED EXTERMINATOR.
5. COMPACTION OF SOIL UNDER ALL CONCRETE TO BE 95% MAXIMUM DRY DENSITY BY MODIFIED PROCTOR.
6. FINAL FOUNDATION DESIGN SUBJECT TO BUILDING DESIGN BY MANUFACTURER.
7. STEEL REINFORCING TO HAVE 3" COVER FOR FACES OF FOUNDATION PERMANENTLY EXPOSED TO EARTH AND 2" FOR CONCRETE EXPOSED TO WEATHER, 1-1 1/2" ELSEWHERE.
8. 6 MIL VAPOR BARRIER REQUIRED BENEATH FOUNDATIONS AND SLAB..
9. FLOOR SLAB THICKNESS WILL BE 6" WITH #4 REBAR @ 12" O.C., BOTH WAYS.
10. FILL MATERIAL, IF NECESSARY, WILL BE AVAILABLE ON SITE.

FOOTING SCHEDULE

MARK	SIZE (L X W X T)	REBAR REQUIREMENTS
A	6'-0" X 6'-0" X 48"	7 #5 EACH WAY TOP & BOTTOM @ 11" O.C.

NORTH

FOUNDATION PLAN
SCALE: 1/8" = 1'-0"

REV. BY:	DESCRIPTION	DATE:	DRAWN
RMC-3	CHANGES PER D.E.P. RAI	02-09-99	

CLIENT: SUMTER COUNTY BOARD OF COUNTY COMMISSIONERS
PROJECT: COMPOST FINISHING BUILDING-2
DRAWING: FOUNDATION PLAN
4 of 7

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SCALE:	FILE:	DATE:
1/8"=1'	FNDFIN1	1/08/99
DESIGN:	DRAWN:	CHECKED:
RMC-3		

DRAWING:
COMPOST FINISHING BUILDING
FOUNDATION PLAN
CLIENT:
SCBCC
JOB NO.: 921100.010
SHEET: 4
OF: 7

DAVID W. SPRINGSTEAD

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
FEB 10 1999
SOUTHWEST DISTRICT TAMPA

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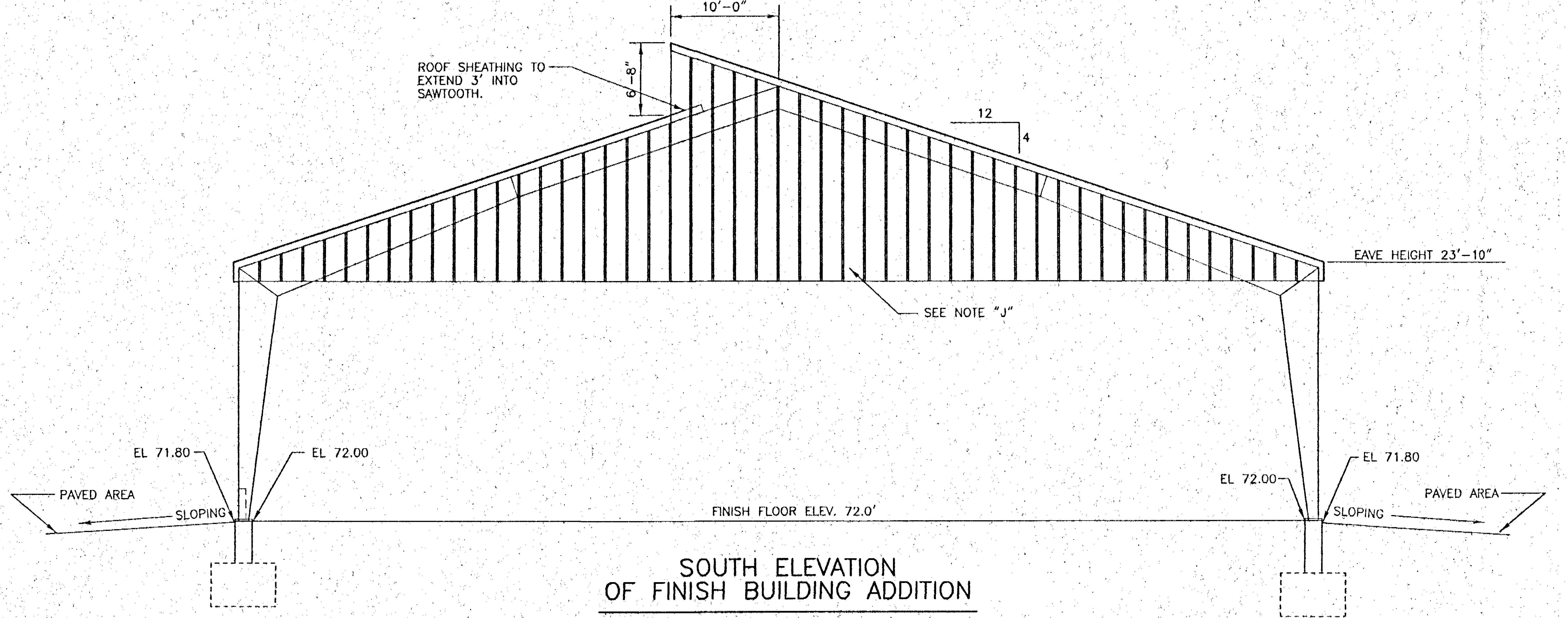
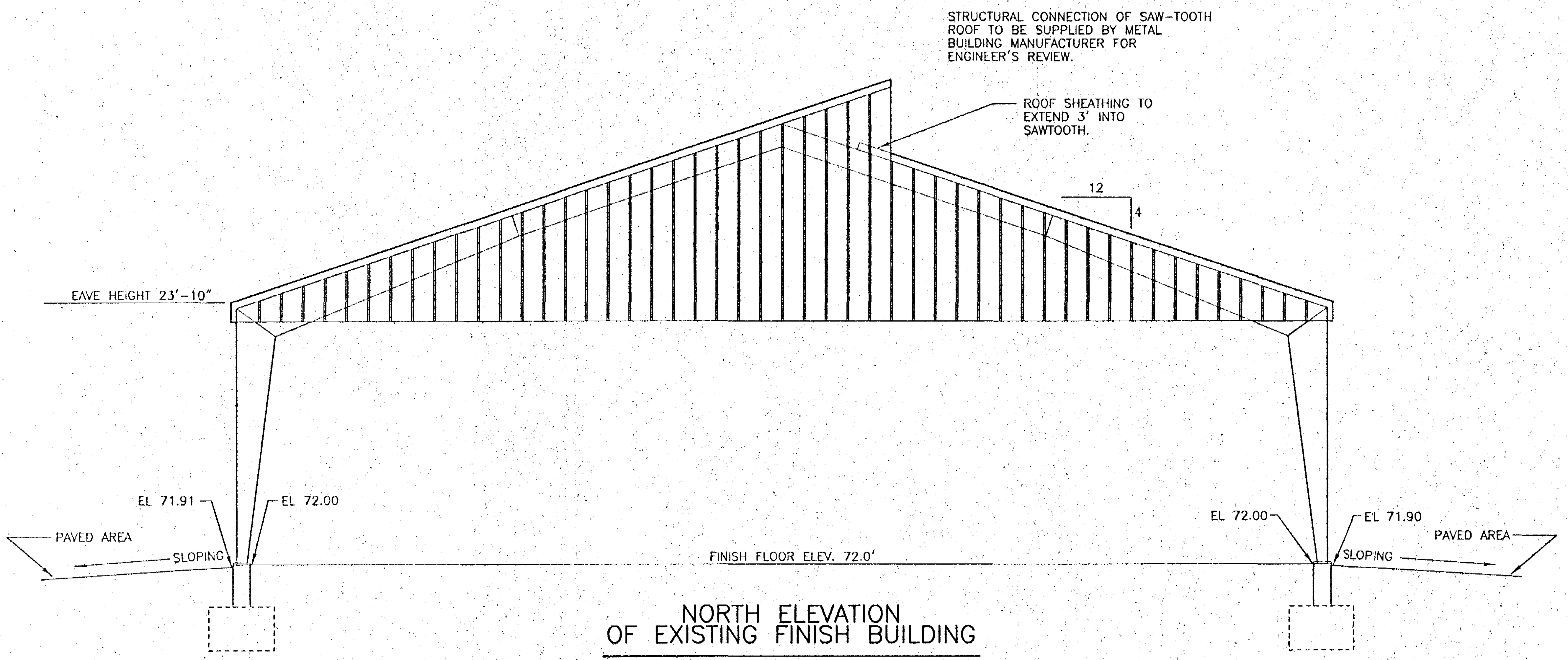


SOUTH ELEVATION
OF FINISH BUILDING ADDITION

SCALE: 1/8" = 1'-0"


STRUCTURAL CONNECTION OF SAW-TOOTH ROOF TO BE SUPPLIED BY METAL BUILDING MANUFACTURER FOR ENGINEER'S REVIEW.
ROOF SHEATHING TO EXTEND 3' INTO SAWTOOTH.
12
4
EAVE HEIGHT 23'-10"
EL 71.91
EL 72.00
PAVED AREA
SLOPING
FINISH FLOOR ELEV. 72.0'
EL 72.00
EL 71.90
PAVED AREA
SLOPING

NORTH ELEVATION
OF EXISTING FINISH BUILDING

SCALE: 1/8" = 1'-0"

PRE-ENGINEERED & PREFABRICATED METAL BUILDINGS (MB) NOTES:

A. THE METAL BUILDING SHALL BE A PRE-ENGINEERED STRUCTURE TO THE MANUFACTURER'S STANDARD CONSTRUCTION SPECIFICATIONS AND AGREEMENTS WITH THE OWNER. OVERALL DIMENSIONS SHALL CONFORM TO THOSE SHOWN ON THE DRAWINGS. DESIGN LOADS SHALL COMPLY WITH THE STANDARD BUILDING CODES AS FOLLOWS:

BUILDING DESIGN FOR WIND LOADS PER SBC_{88} SEC 1205:

WITH BUILDING USE OCCUPANCY FACTOR		1.15
WITH FASTEST MILE WIND VELOCITY		100 MPH
WITH WIND VELOCITY PRESSURE @	0-15' HEIGHT	21 PSF
	20' HEIGHT	23 PSF

BUILDING DESIGN ROOF LIVE LOAD:

WITH TRIBUTARY AREA 0 TO 200 FT^2	20 PSF
WITH TRIBUTARY AREA 201 TO 600 FT^2	16 PSF
WITH TRIBUTARY AREA OVER 600 FT^2	12 PSF

B. THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR THE METAL BUILDING SHALL CONFORM TO THE REQUIREMENTS OF EITHER THE AISC SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS OR THE AISC LOAD AND RESISTANCE FACTOR DESIGN SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS.

C. THE DESIGN FABRICATION AND ERECTION OF COLD-FORMED STEEL CONSTRUCTION FOR THE METAL BUILDING SHALL CONFORM TO THE AISC SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS. ALL INDIVIDUAL STRUCTURAL MEMBERS AND ASSEMBLED PANELS OF COLD-FORMED STEEL CONSTRUCTION, OF CORROSIVE RESISTANT STEEL OR OF STEEL HAVING CORROSION RESISTANT METALLIC OR OTHER APPROVED COATING, SHALL BE PROTECTED AGAINST CORROSION WITH AN ACCEPTABLE SHOP COAT OF PAINT, ENAMEL, OR OTHER APPROVED PROTECTION.

D. DETAILS OF DESIGN, WORKMANSHIP AND TECHNIQUE FOR WELDING, INSPECTION OF WELDING, AND QUALIFICATION OF WELDING OPERATORS SHALL CONFORM TO THE AWS STRUCTURAL WELDING CODE, AND THE AISC SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS.

E. THE BUILDING MANUFACTURER WILL FURNISH COMPLETE CONSTRUCTION DRAWINGS FOR THE PROPER IDENTIFICATION AND ASSEMBLY OF ALL BUILDING PARTS. THESE DRAWINGS WILL SHOW ANCHOR BOLT DETAILS AND SETTINGS, TRANSVERSE CROSS-SECTIONS, SIDE-WALLS, ENDWALLS, FACIAS, SOFFITS, ROOF FRAMING, BRACING, SHEETING, FLASHING DETAILS, GUTTERS AND DOWNSPOUTS AND ACCESSORY INSTALLATION DETAILS. NO OPENINGS OR HOLES THROUGH THE METAL ROOF WILL BE ACCEPTED BY THE OWNER. THESE DRAWINGS AND ALL DESIGN WORK SHALL BE PERFORMED BY A FLORIDA PROFESSIONAL ENGINEER WHO UNDERTAKES THE WORK OF A "SPECIALTY ENGINEER" AND SHALL ALSO PERFORM THE FOLLOWING SERVICES:

1. PREPARE, SEAL, SIGN AND DATE AND SUBMIT FOUR (4) COMPLETE SETS OF BUILDING PLANS WITH THE COLUMN REACTIONS TO BE SUPPORTED BY THE FOUNDATION FLOOR SLAB AND THE ANCHOR BOLT SETTING PLAN AND SLAB EDGE DETAILS TO THE ENGINEER FOR REVIEW AND APPROVAL BEFORE FABRICATION.
2. CONTRACTOR IS TO OBTAIN PERMIT FROM APPLICABLE AGENCIES.
3. PREPARE, SEAL, SIGN AND DATE AND SUBMIT TO THE PROJECT ENGINEER SIX (6) SETS OF THE COMPLETED BUILDING PLANS TO THE BUILDING DEPARTMENT FOR REVIEW AND FILING.

F. THE REINFORCED CONCRETE BUILDING FLOOR SLAB FOUNDATION AND ALL ANCHOR BOLTS SHALL BE FURNISHED AND CONSTRUCTED BY THE GENERAL CONTRACTOR. ALL COLUMN BASE PLATES WILL BE ERECTED ON ANCHOR BOLTS WITH DOUBLE NUTS ON 1½" GROUT.

G. THE ERECTION OF THE METAL BUILDING AND THE INSTALLATION OF ACCESSORIES SHALL BE PERFORMED IN ACCORDANCE WITH THE BUILDING MANUFACTURER'S CONSTRUCTION DRAWINGS BY A QUALIFIED ERECTOR USING PROPER TOOLS AND EQUIPMENT IN ACCORDANCE WITH THE STANDARDS OF THE AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS. THERE SHALL BE NO FIELD MODIFICATIONS TO PRIMARY STRUCTURAL MEMBERS EXCEPT AS AUTHORIZED IN WRITING.

H. STRUCTURAL CONNECTION DETAIL OF SAW-TOOTH ROOF TO BE SUPPLIED BY METAL BUILDING MANUFACTURER FOR ENGINEER'S REVIEW.

I. BUILDING FRAME TO BE RIGID-NO CABLE BRACING IN OPENINGS.

J. GABLE SIDING FROM SOUTH END OF EXISTING FINISH BUILDING SHALL BE REMOVED AND PLACED ON SOUTH GABLE OF FINISH BUILDING ADDITION.

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
FEB 1 0 1999
SOUTHWEST DISTRICT
TAMPA

2/5/99

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RMC-3	CHANGES PER D.E.P. RAI	02-09-99	

CLIENT: SUMTER COUNTY BOARD OF COUNTY COMMISSIONERS

PROJECT: COMPOST FINISHING BUILDING-2

DRAWING: ELEVATIONS

5 of 7

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SCALE:	FILE:	DATE:
1/8"=1'	ELEV	1/08/99
DESIGN:	DRAWN:	CHECKED:
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DRAWING:
COMPOST FINISHING BUILDING
ELEVATIONS

CLIENT:
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JOB NO.:	SHEET: 5
921100.010	OF: 7

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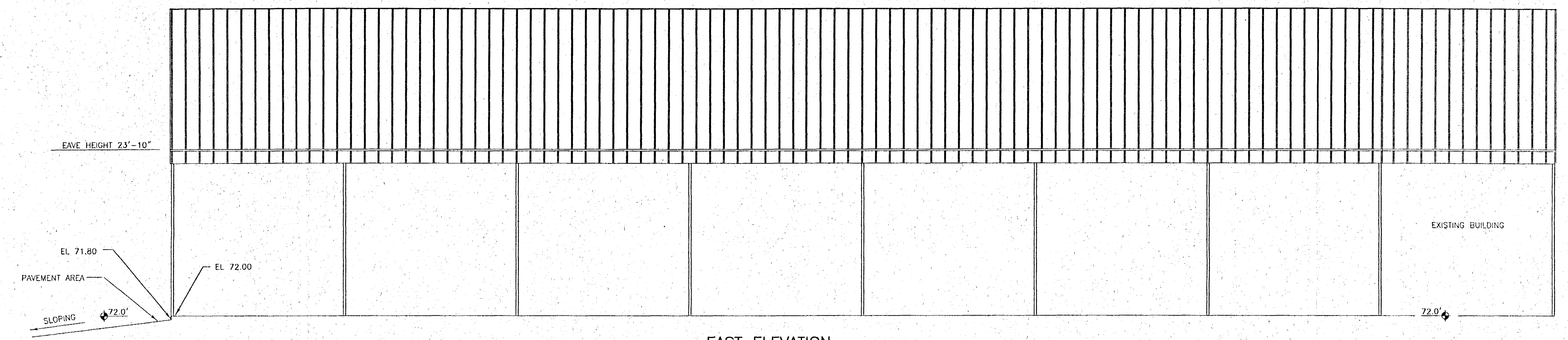
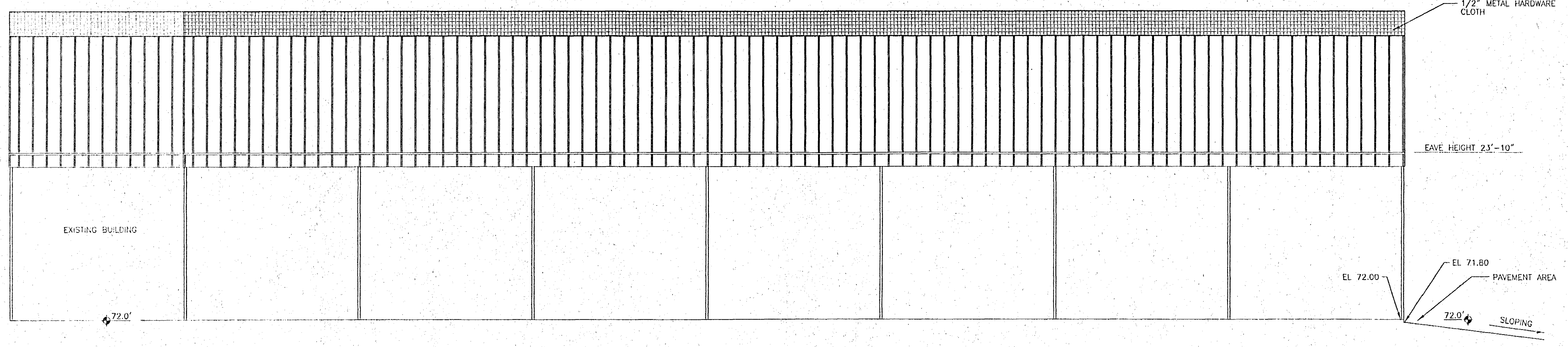


EAST ELEVATION

SCALE: 1/8" = 1'-0"

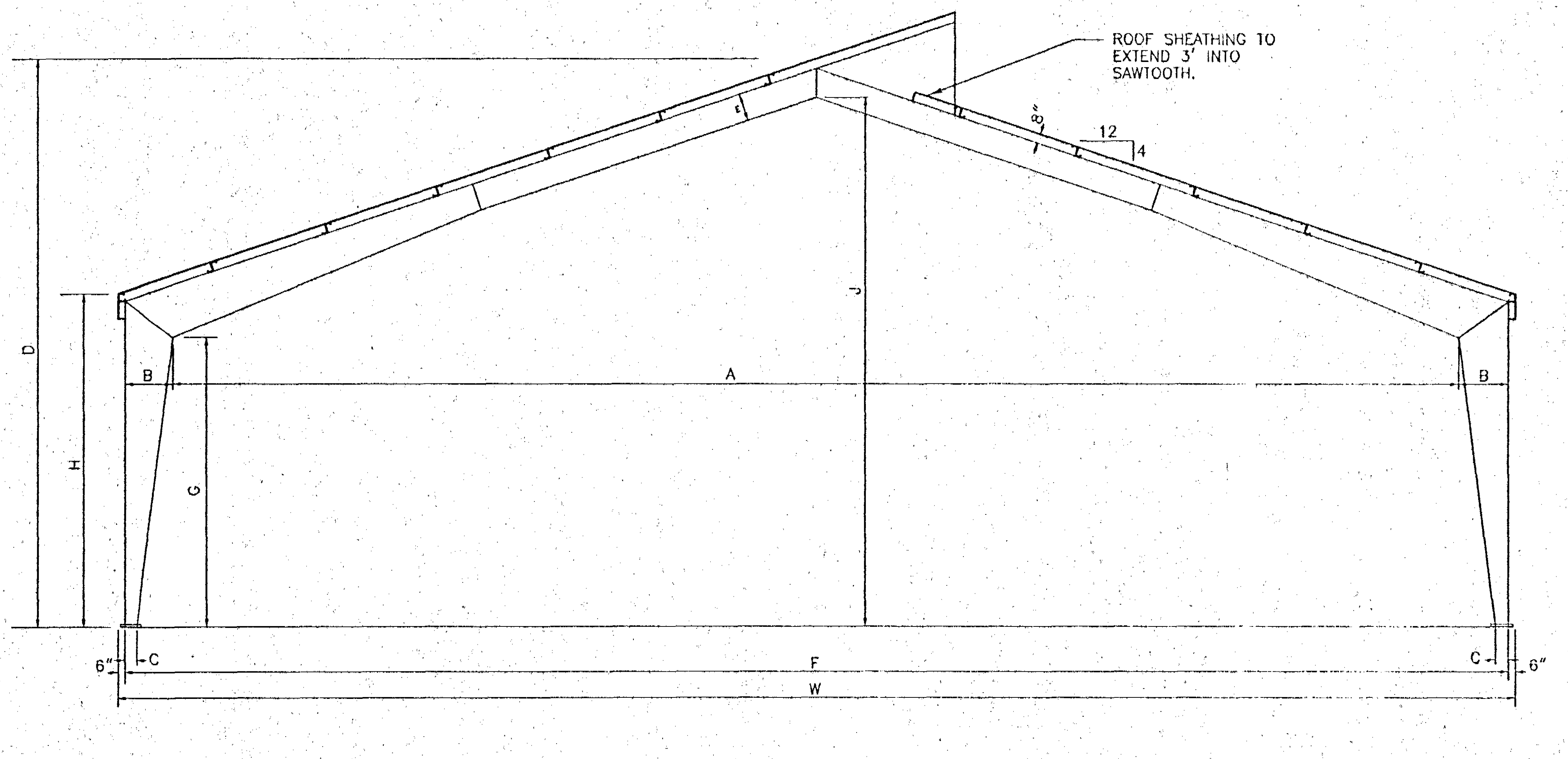


WEST ELEVATION

SCALE: 1/8" = 1'-0"

NOTE:
NO METAL BUILDING SIDING WILL BE CONSTRUCTED ON THE BUILDING

RIGID FRAME DIMENSIONS									
WIDTH	EAVE	DIMENSIONS (all figures rounded off to nearest 1/8")							
W	H	A	B	C	D	E	F	G	J
100'-0"	23'-10"	91'-10"	3'-7"	11"	40'-6"	1'-9 3/8"	99'-0"	20'-8 5/8"	37'-10 3/4"



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SOUTHWEST DISTRICT
TAMPA

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CLIENT:
SUMTER COUNTY BOARD OF COUNTY COMMISSIONERS

PROJECT:
COMPOST FINISHING BUILDING-2

DRAWING:
ELEVATIONS

6 of 7

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1/8"=1'	ELEV	1/08/99
DESIGN:	DRAWN:	CHECKED:
RMC-3		

DRAWING:
COMPOST FINISHING BUILDING
ELEVATIONS

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921100.010	OF: 7

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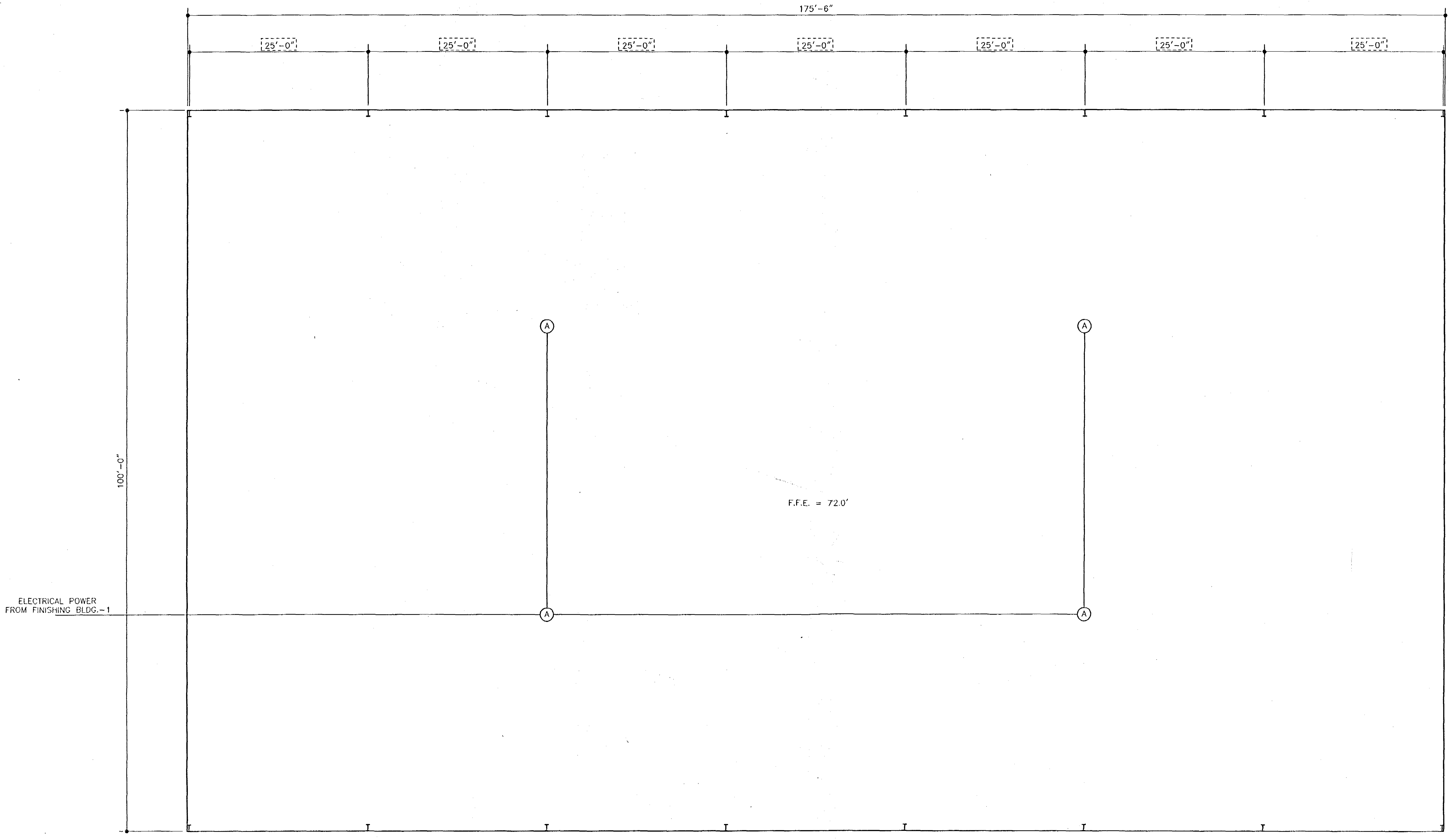

LEGEND

Ⓐ LITHONIA THS 200S A16 480 MOUNTED AT 20'

NORTH

FLOOR PLAN

SCALE: 1/8" = 1'-0"

REV. BY:	DESCRIPTION	DATE:	DRAWN

CLIENT:
SUMTER COUNTY BOARD OF COUNTY COMMISSIONERS

PROJECT:
COMPOST FINISHING BUILDING-2

DRAWING:
ELECTRICAL PLAN

7 of 7

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1/8"=1'	ELEC	1/08/99
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RMC-3		

DRAWING:
COMPOST FINISHING BUILDING
ELECTRICAL PLAN

CLIENT:
SCBCC

JOB NO.:	SHEET: 7
921100.010	OF: 7

FLORIDA DEPARTMENT OF
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TAMPA

DAVID W. SPRINGSTEAD

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