64

816116-1

1723

Oversized Drawings

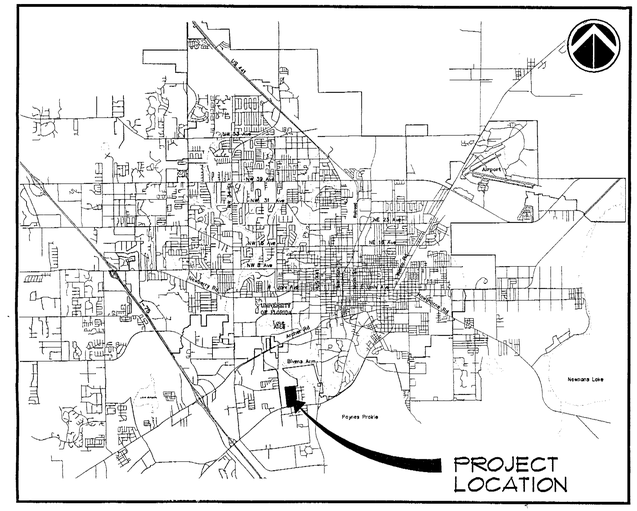
1723

CONSTRUCTION DRAWINGS

FOR

"MADERA CLUSTER DEVELOPMENT" PHASE I

LYING IN LOT 6 OF THE NAPIER GRANT,
TOWNSHIP 10 SOUTH, RANGE 20 EAST
CITY OF GAINESVILLE, FLORIDA



VICINITY MAP
N.T.S.

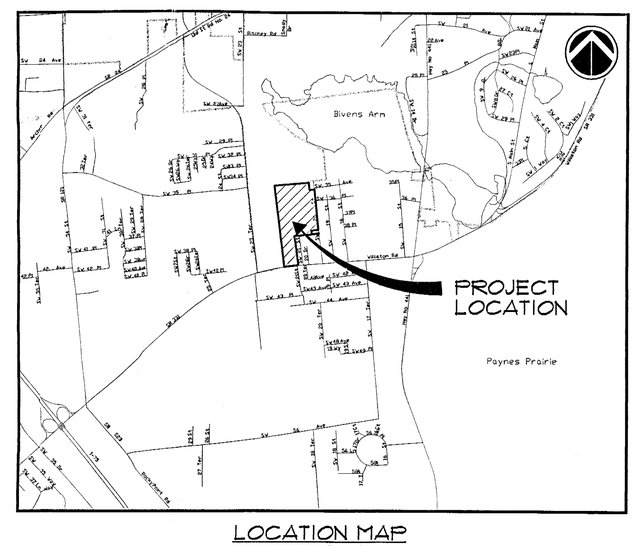
ROADWAY AND TRAFFIC DESIGN STANDARDS (BOOKLET DATE JANUARY 2000)

(INDEXES LISTED BELOW ARE LISTED FOR QUICK REFERENCE. CONTRACTOR SHALL REFER TO DESIGN STANDARDS BOOKLET FOR INDEXES NOT LISTED BUT WHICH MAY BE REQUIRED TO COMPLETE CONSTRUCTION)

INDEX NO.	DESCRIPTION
102	ROCK BAG, BAILED HAY, BAILED STRAW AND SILT FENCE BARRIERS (3 SHEETS)
104	EROSION CONTROL (2 SHEETS)
201	SUPPLEMENTARY DETAILS FOR MANHOLES AND INLETS
205	COVER HEIGHT (4 SHEETS)
232	DITCH BOTTOM INLETS–TYPES C,D,E AND H (5 SHEETS)
272	CROSS DRAIN MITERED END SECTION (8 SHEETS)
281	DITCH PAVEMENT AND SODDING (2 SHEETS)
300	CURB & CURB AND GUTTER
304	PUBLIC SIDEWALK CURB RAMPS (5 SHEETS)
500	REMOVAL OF ORGANIC AND PLASTIC MATERIAL (2 SHEETS)
505	EMBANKMENT UTILIZATION (3 SHEETS)
600	GENERAL INFORMATION FOR TRAFFIC CONTROL THROUGH WORK ZONES (10 SHEETS)

INDEX

SHEETS	TITLE
C0.00	COVER SHEET/CONTENTS OF SET
C0.10	CONSTRUCTION DETAILS AND NOTES
C0.20	MASTER DRAINAGE PLAN
C1.00	GRADING AND DRAINAGE SITE PLAN
C2.00–C2.10	WATER AND SANITARY SEWER SITE PLAN
C3.00–C3.08	SANITARY SEWER AND ROADWAY PLAN AND PROFILE
C3.10–C3.11	OFF-SITE FORCE MAIN PLAN AND PROFILE
C4.00–C4.10	ROADWAY CROSS SECTIONS
C4.20	S.R. NO. 331 AND ENTRANCE IMPROVEMENT PLAN
C5.00	LIFT STATION SITE PLAN
C5.10	LIFT STATION MECHANICAL/ELECTRICAL PLAN
C5.20	LIFT STATION MECHANICAL SECTION AND DETAILS
C5.30	LIFT STATION ELECTRICAL SECTION AND DETAILS
C5.40	LIFT STATION DETAILS
LS–1	STORMWATER BASIN 2 LANDSCAPE PLAN
LS–2	CRANE BUFFER LANDSCAPE PLAN
PLAT	RECORD PLAT (2 SHEETS)



LOCATION MAP
SCALE: 1"=600'

DATE	REVISION

DATE: DECEMBER 14, 2001

DEVELOPER:
GREENTRUST, L.L.C.
3909 NEWBERRY ROAD, SUITE A
GAINESVILLE, FLORIDA 32607
(352)376-2444

40-001-816616-1

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FEB 04 2002
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GREENTRUST
GAINESVILLE, FLORIDA

JOB NO.: 01-268
SHEET NO.: C0.00

PROJECT: MADERA CLUSTER DEVELOPMENT PHASE I
SHEET TITLE: COVER SHEET AND CONTENTS OF SET

DESIGNED BY: R.J.WALPOLE, P.E.
DRAWN BY: C.C. POSADA
CHECKED BY: R.F.CAUSSEAUX, P.E.

COMPUTER FILE: 01-268CV.DWG
DATE: DECEMBER 14, 2001

C&E Causseaux & Ellington, Inc.
Engineering • Surveying • Planning
EB-0000275
6011 NW 1st Place, Gainesville, Florida 32607
Phone: (352) 331-1976 Fax: (352) 331-2976 mailbox@ce-civil.com

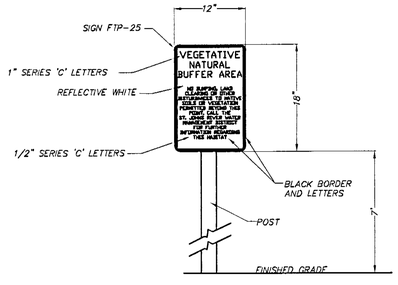
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALE ACCORDINGLY.

REVISIONS
DATE

SEAL
ROBERT F. CAUSSEAUX
39421

APPROVED BY: [signature]
DATE: 2/1/02

PLOT SCALE: 01-268dwg
PLOT DATE: 01-02-02

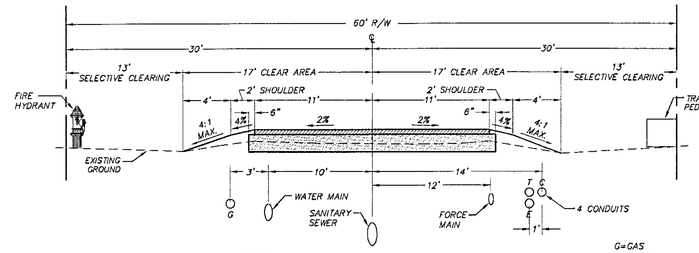


SIGN NOTES:

1. SIGN CONSTRUCTION, DESIGN AND PLACEMENT SHALL COMPLY WITH STATE AND LOCAL STATUTES.

VEGETATIVE NATURAL BUFFER SIGN DETAIL

NTS



NOTES:

1. UTILITIES TO HAVE A MINIMUM OF 36" OF COVER UNLESS STATED OTHERWISE.

2. PROPOSED 4' WIDE PAVED PATH TO BE FIELD LOCATED WITHIN THE PROPOSED R/W TO PRESERVE EXISTING TREES AND VEGETATION.

3. CLEARING AROUND PROPOSED TRANSFORMER PAD AND FIRE HYDRANT SHALL NOT EXCEED A 10'x10' AREA, WITH THE PROPOSED STRUCTURE IN THE CENTER OF THE CLEARING.

G=GAS
C=CABLE
E=ELECTRIC
T=TELEPHONE
W=WATER

60' R/W UTILITY ALLOCATION DESIGN SPEED = 20 MPH

NTS

WATER AND SANITARY SEWER NOTES

1. ALL WATER AND SEWER INSTALLATIONS SHALL COMPLY WITH G.R.U. CONSTRUCTION STANDARDS AND SPECIFICATIONS.

2. A MINIMUM OF 10'(FT) HORIZONTAL AND 18"(IN) VERTICAL SEPARATION SHALL BE MAINTAINED BETWEEN ANY PROPOSED WATER MAIN AND SANITARY SEWER LINE.

3. THE 6"& 8" PVC WATER MAINS SHALL HAVE A DR-18 RATING. ALL 6" & 8" DIP WATER MAINS SHALL BE CLASS 51. ALL 2" PVC MAINS SHALL BE SCHEDULE 40 PIPE. ALL WATER SERVICES SHALL BE 1" POLYBUTYLENE, AND ENCASED IN 3" PVC WHEN PLACED UNDER THE PAVEMENT. ALL 2' WATER MAINS SHALL BE ENCASED IN 3" SCH 40 PVC WHEN PLACED UNDER PAVEMENT. THE 3" PVC CASING SHALL EXTEND 3'(FT) BEYOND THE EDGE OF PAVEMENT. ALL 6" AND 8" WATER MAINS UNDER PAVEMENT SHALL BE DIP EXTENDING 3' BEYOND EDGE OF PAVEMENT.

4. ALL 5/8" WATER METERS AND ASSEMBLIES SHALL BE INSTALLED BY G.R.U. AT THE R/W LINE. (SEE PLAN FOR SPECIFIC LOCATION).

5. ALL SEWER PIPE SHALL HAVE AN ASTM RATING OF 3034. ALL SERVICES SHALL BE 4" PVC SLOPED AT LEAST 1.00% TOWARD THE MAIN AND HAVE A CLEANOUT INSTALLED AT THE ELEVATION GIVEN.

6. SEWER SERVICES SHALL TERMINATE AT THE MIDPONT OF THE FRONT LOT LINES AND AT THE R/W LIMITS OR AT THE LIMITS OF THE 5' P.U.E., AS SHOWN AND NOTED ON THE PLANS.

7. NO PERMANENT STRUCTURES, EXISTING TREES OR PROPOSED TREES SHALL BE WITHIN 10' OF ANY WATER MAIN OR 15' OF ANY WASTWATER MAIN EXCEPT AS SHOWN HEREON.

8. PROPOSED TRANSFORMER LOCATIONS ARE INDICATED AS :
PROPOSED SECONDARY ENCLOSURE LOCATIONS ARE INDICATED AS SE
PROPOSED CONDUIT LINES ARE INDICATED AS :
PROPOSED STREET LIGHT AND PEDESTAL ARE INDICATED AS :

LOCATIONS ARE AS PROVIDED AND DESIGNED BY G.R.U.

9. WHEN WATER METER ASSEMBLIES ARE LOCATED AT A SECONDARY PEDESTAL LOCATION, PROVIDE A MINIMUM OF 5' SEPARATION BETWEEN THE SECONDARY PEDESTAL AND WATER METER ASSEMBLY. WHEN LOCATED AT TRANSFORMERS, EACH METER WILL BE SERVED BY ITS OWN TAP AND VALVE (I.E. NO DOUBLE SERVICE AT TRANSFORMER LOCATIONS).

10. ALL LOTS WITH A DESIGNATED MINIMUM FINISH FLOOR ELEVATION SHALL BE CONSTRUCTED TO THE MINIMUM FINISH FLOOR ELEVATION OR AN APPROVED BACKWATER VALVE SHALL BE PLACED ON THE SANITARY SEWER SERVICE.

GENERAL NOTES:

1. THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL LOCATION AND VERTICAL LOCATION OF ALL EXISTING UTILITIES WITHIN THE LIMITS OF CONSTRUCTION PRIOR TO COMMENCING WORK. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONTINUING CONSTRUCTION.

2. ALL CONSTRUCTION SHOWN ON THESE PLANS SHALL BE PERFORMED TO THE STANDARDS AND SPECIFICATIONS ESTABLISHED BY THE CITY OF GAINESVILLE PUBLIC WORKS DEPARTMENT. THIS INCLUDES BOTH MATERIALS AND WORKMANSHIP.

3. THE CONTRACTOR SHALL PROVIDE PROPER SIGNAGE AND TRAFFIC CONTROL IN THE AREA OF CONSTRUCTION ON THE JOB SITE AND WHEN WORKING IN OR ACCESSING PUBLIC RIGHTS-OF-WAY.

4. THE CONTRACTOR SHALL EXERCISE CARE TO AVOID DAMAGE TO ALL EXISTING UTILITIES. THE REPAIR AND/OR REPLACEMENT OF ALL EXISTING UTILITIES DAMAGED OR DESTROYED DURING THE CONSTRUCTION SHALL BE THE CONTRACTORS RESPONSIBILITY.

5. THE CONTRACTOR SHALL STOCKPILE TOPSOIL AND CONSTRUCTION MATERIALS IN AREAS DESIGNATED BY THE OWNER.

6. THE CONTRACTOR SHALL MAINTAIN IN HIS POSSESSION A COPY OF THE WATER MANAGEMENT DISTRICT CONSTRUCTION PERMIT. HE SHALL BE RESPONSIBLE FOR ADHERENCE TO ALL CONDITIONS CONTAINED IN THE PERMIT.

7. THE CONTRACTOR SHALL NOTIFY THE CITY OF GAINESVILLE PUBLIC WORKS DEPARTMENT AT LEAST 24 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION AND AT PERTINENT STAGES OF THE WORK, AS DIRECTED BY CITY INSPECTORS.

8. THE CONTRACTOR SHALL UNDERCUT ALL UNSUITABLE MATERIAL ENCOUNTERED BENEATH THE PROPOSED LIMEROCK BASE COURSE TO A DEPTH OF 18 INCHES BELOW THE BOTTOM OF THE BASE AND SHALL BACKFILL WITH CLEAN SUITABLE FILL MEETING FDOT ROAD AND BRIDGE CONSTRUCTION STANDARDS AND SPECIFICATIONS.

9. THE ROADWAY CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE FDOT STANDARDS AND SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (JANUARY 2000).

10. ALL CONCRETE USED SHALL BE 3,000 PSI MINIMUM.

11. ALL STORM SEWER PIPE SHALL BE CLASS III REINFORCED CONCRETE PIPE.

12. ALL STORM SEWER CURB INLETS AND DITCH BOTTOM INLETS SHALL CONFORM TO THE REFERENCED FDOT INDEX (FDOT INDEX NO.'S 201, 232, 262). A CHAIN SHALL BE REQUIRED ON ALL DITCH BOTTOM INLET GRATES.

13. ALL CONCRETE STRUCTURES SHALL HAVE ALL EXPOSED EDGES CHAMFERED 3/4" AND CLASS I SURFACE FINISH.

14. SOD SHALL BE PLACED AROUND ALL STRUCTURES AS DIRECTED BY THE FDOT INDEX NO. 281. ALL OTHER DISTURBED AREAS SHALL BE SEEDED AND MULCHED. SOD SHALL BE PINNED ON SIDE SLOPES WHERE SLOPES ARE STEEPER THAN 4 TO 1 SLOPE, TYPICAL.

15. ALL WATER DISTRIBUTION AND WASTEWATER COLLECTION CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH GRU SPECIFICATIONS.

16. A PRE-CONSTRUCTION CONFERENCE SHALL BE REQUIRED. THE CONTRACTOR, ENGINEER OF RECORD AND THE OWNER SHALL MEET WITH THE CITY OF GAINESVILLE PUBLIC WORKS DEPT. PRIOR TO INITIATION OF SITE CONSTRUCTION.

17. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL ROADWAY AND DRAINAGE STRUCTURE MATERIALS, AND ALL UTILITY STRUCTURES TO THE ENGINEER FOR APPROVAL PRIOR TO ORDERING MATERIALS OR STRUCTURES. A MINIMUM OF FIVE COPIES OF SHOP DRAWINGS ARE REQUIRED.

18. ANY CHANGE ORDER REQUESTS, SITE REVISIONS, AND PAY REQUESTS MUST BE SUBMITTED TO AND APPROVED BY THE ENGINEER OF RECORD.

19. ALL CONSTRUCTION PERFORMED WITHIN SR 331 RIGHT-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH F.D.O.T. STANDARDS AND SPECIFICATIONS AND THE F.D.O.T. PERMIT.

20. UNDERDRAINS ARE NOT EXPECTED TO BE REQUIRED. THE CITY OF GAINESVILLE PUBLIC WORKS DEPARTMENT, DURING FIELD INSPECTION, SHALL DETERMINE THE NECESSITY FOR UNDERDRAINS, AND PROVIDE THE EXACT LOCATION AND REQUIREMENTS. THE CONTRACTOR SHALL INSTALL UNDERDRAINS AS REQUIRED BY CITY SPECIFICATIONS AND STANDARDS.

21. SUBSOIL EXCAVATION IS NOT EXPECTED TO BE REQUIRED. THE CITY OF GAINESVILLE PUBLIC WORKS DEPARTMENT, DURING FIELD INSPECTION, SHALL DETERMINE THE NECESSITY FOR UNDERCUTTING. EXCAVATION SHALL BE A MINIMUM OF 18" BELOW THE LIMEROCK BASE. THE CONTRACTOR SHALL EVACUATE ALL UNSUITABLE MATERIAL AND BACKFILL WITH APPROVED MATERIALS, PER CITY SPECIFICATIONS AND STANDARDS.

22. THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY EXISTING INFRASTRUCTURE LOCATIONS PRIOR TO BEGINNING ANY PORTION OF CONSTRUCTION. THE CONTRACTOR SHALL REPORT TO THE ENGINEER OF RECORD ANY SIGNIFICANT DISCREPANCIES. THE CONTRACTOR SHALL EXERCISE CARE TO PROTECT EXISTING INFRASTRUCTURE FROM DAMAGE AND SHALL BE RESPONSIBLE TO REPAIR ALL DAMAGES DUE TO NEW CONSTRUCTION.

23. THE CONTRACTOR IS RESPONSIBLE FOR EROSION/SEDIMENTATION CONTROL PRACTICES DURING CONSTRUCTION TO MINIMIZE ON-SITE EROSION/SEDIMENTATION AND TO PROTECT AGAINST DAMAGE TO OFF-SITE PROPERTY. THE FOLLOWING PRACTICES SHALL BE EMPLOYED:

A. EROSION AND SEDIMENTATION CONTROL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. AREAS OF OFF-SITE DISCHARGE DURING CONSTRUCTION SHALL BE PROTECTED WITH A SEDIMENT BARRIER PER F.D.O.T. INDEX NUMBER 102 TO PREVENT OFF-SITE DISCHARGE OF SEDIMENTS. TEMPORARY SEED AND MULCH SHOULD BE USED TO CONTROL ON-SITE EROSION WHEN IT IS NOT PRACTICAL TO ESTABLISH PERMANENT VEGETATION. SOD SHALL BE PLACED AS EARLY AS POSSIBLE ON ALL SLOPES STEEPER THEN 5 FEET HORIZONTAL TO 1 FOOT VERTICAL. SOD SHALL BE PINNED AS REQUIRED. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE MAINTAINED IN WORKING ORDER THROUGHOUT THE CONSTRUCTION PHASE. THE CONTRACTOR SHALL INSPECT AND REPAIR AS NECESSARY THE EROSION/SEDIMENTATION PROTECTION AT THE END OF EACH WORKING DAY. NOTE: EROSION/SEDIMENTATION CONTROL SHALL BE PLACED PRIOR TO SITE EXCAVATION AND FILLING, AND SHALL REMAIN IN PLACE UNTIL SITE VEGETATION AND LANDSCAPING IS COMPLETE. ALL SLOPES 3:1 OR STEEPER REQUIRE LAPPED OR PEGGED SOD.

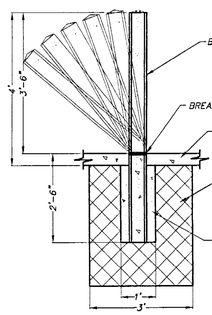
B. ALL INLET STRUCTURES AND PIPE SHALL BE PROTECTED FROM SILTATION BY CONSTRUCTING INLET PROTECTION AS DEFINED IN THE FDOT STANDARDS.

C. PERMANENT VEGETATIVE STABILIZATION SHALL BE APPLIED ON FINE GRADED SITES AS SOON AS PRACTICAL. TEMPORARY SEEDING SHOULD BE EMPLOYED TO PREVENT EXPOSURE OF BARREN SOILS UNTIL PERMANENT VEGETATION CAN BE APPLIED.

24. LIMEROCK CONTINGENCY PLAN:
IF LIMEROCK IS ENCOUNTERED DURING EXCAVATION OF THE SWALES OR IF A SINKHOLE FORMS IN THE AREA OF A DRAINAGE SWALE THE ENGINEER OF RECORD SHALL BE NOTIFIED BY EITHER THE CONTRACTOR OR THE ESTABLISHED OPERATION AND MAINTENANCE ENTITY. THE ENGINEER OF RECORD SHALL INSPECT THE REPAIRED AREA UPON COMPLETION OF THE REPAIR.

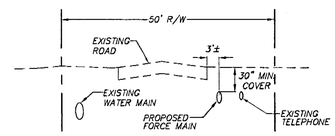
WHERE LIMEROCK IS ENCOUNTERED DURING EXCAVATION OF THE SWALES, THE LIMEROCK SHALL BE OVER EXCAVATED BY 2 FEET AND REPLACED WITH CLAYEY SOILS THAT EXTEND 2 FEET BEYOND THE PERIMETER OF THE LIMEROCK OUTCROPPING. THE CLAYEY SOIL SHALL HAVE AT LEAST 30% PASSING THE NO. 200 SIEVE, COMPACTED TO 95% OF STANDARD PROCTOR, AND COMPACTED IN A WET CONDITION WITH MOISTURE 2% - 4% ABOVE OPTIMUM.

ALL SWALES SHALL BE INSPECTED MONTHLY FOR SINKHOLE OCCURRENCE. SHOULD A SINKHOLE OCCUR, THE AREA SHALL BE REPAIRED AS SOON AS POSSIBLE. REPAIR SHALL INCLUDE FILLING (LIMEROCK SUCH AS ROAD BASE MATERIAL, CLAY/SAND MIXTURE, OR CONCRETE IF NECESSARY). A 2-FOOT DEEP CAP THAT EXTENDS 2 FEET BEYOND THE PERIMETER OF THE SINKHOLE SHALL BE CONSTRUCTED WITH CLAYEY SOILS. THE CLAYEY SOIL SHALL HAVE AT LEAST 30% PASSING THE NO. 200 SIEVE, COMPACTED TO 95% OF STANDARD PROCTOR, AND COMPACTED IN A WET CONDITION WITH MOISTURE 2% - 4% ABOVE OPTIMUM. THE CLAY SOIL CAP SHALL BE REGRADED TO PREVENT CONCENTRATION OF WATERS (PONDING) AND REVEGETATED.



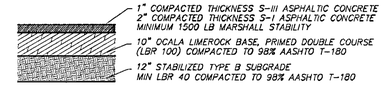
BREAK AWAY BOLLARD DETAIL

NTS



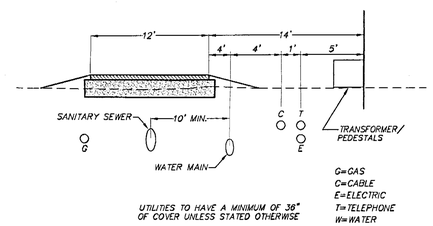
SW 21ST STREET

NTS



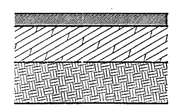
FDOT PAVEMENT DETAIL FOR PAVEMENT WITHIN FDOT ROW

NTS



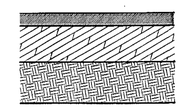
ONE-WAY PRIVATE DRIVE UTILITY ALLOCATION

NTS



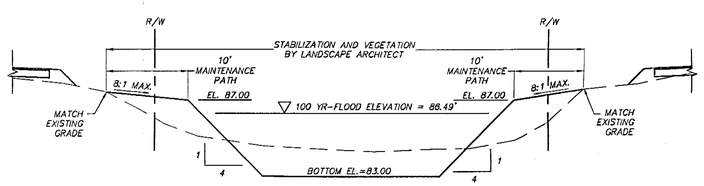
ASPHALT PAVEMENT DETAIL

NTS



PEDESTRIAN/TRAIL PAVEMENT DETAIL

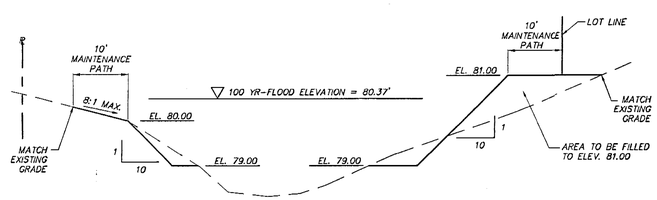
NTS



STORMWATER MANAGEMENT FACILITY #2 SECTION

(SEE SHEET C0.20)

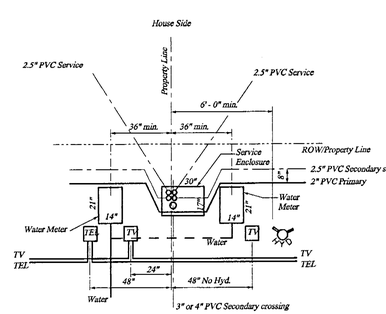
NTS



PHASE II STORMWATER MANAGEMENT FACILITY #1 SECTION

(SEE SHEET C0.20)

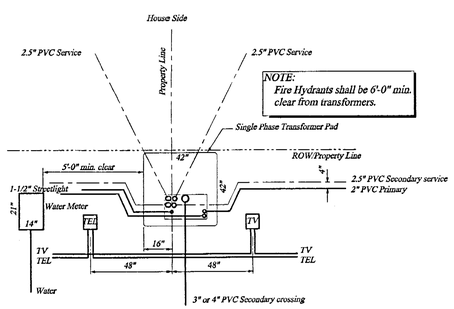
NTS



Typical 60' R.O.W

Service Enclosure

Not to Scale



Typical 60' R.O.W.

Single Phase Transformer Pad

Not to Scale

ALLOCATION PLAN WITH PUE DETAILS (TYP.) (AS PROVIDED BY GRU)

NTS

RECEIVED
FEB 04 2002
PAL

CLIENT: GREENTRUST GAINESVILLE, FLORIDA

JOB NO.: 01-268 SHEET NO.: C0.10

PROJECT: MADERA CLUSTER HOUSE DEVELOPMENT

SHEET TITLE: CONSTRUCTION DETAILS AND NOTES

DESIGNED BY: R.J.WALPOLE, P.E.
DRAWN BY: C.C. POSADA
CHECKED BY: R.P.CAUSSEUAX, P.E.

COMPUTER FILE: 01-268D01.DWG
DATE: DECEMBER 14, 2001

C&E Causseaux & Ellington, Inc.
Engineering • Surveying • Planning
EB-0000205
6011 NW 1st Place, Gainesville, Florida 32607
Phone: (352) 331-1976 Fax: (352) 331-2476 mailbox@ce-civil.com

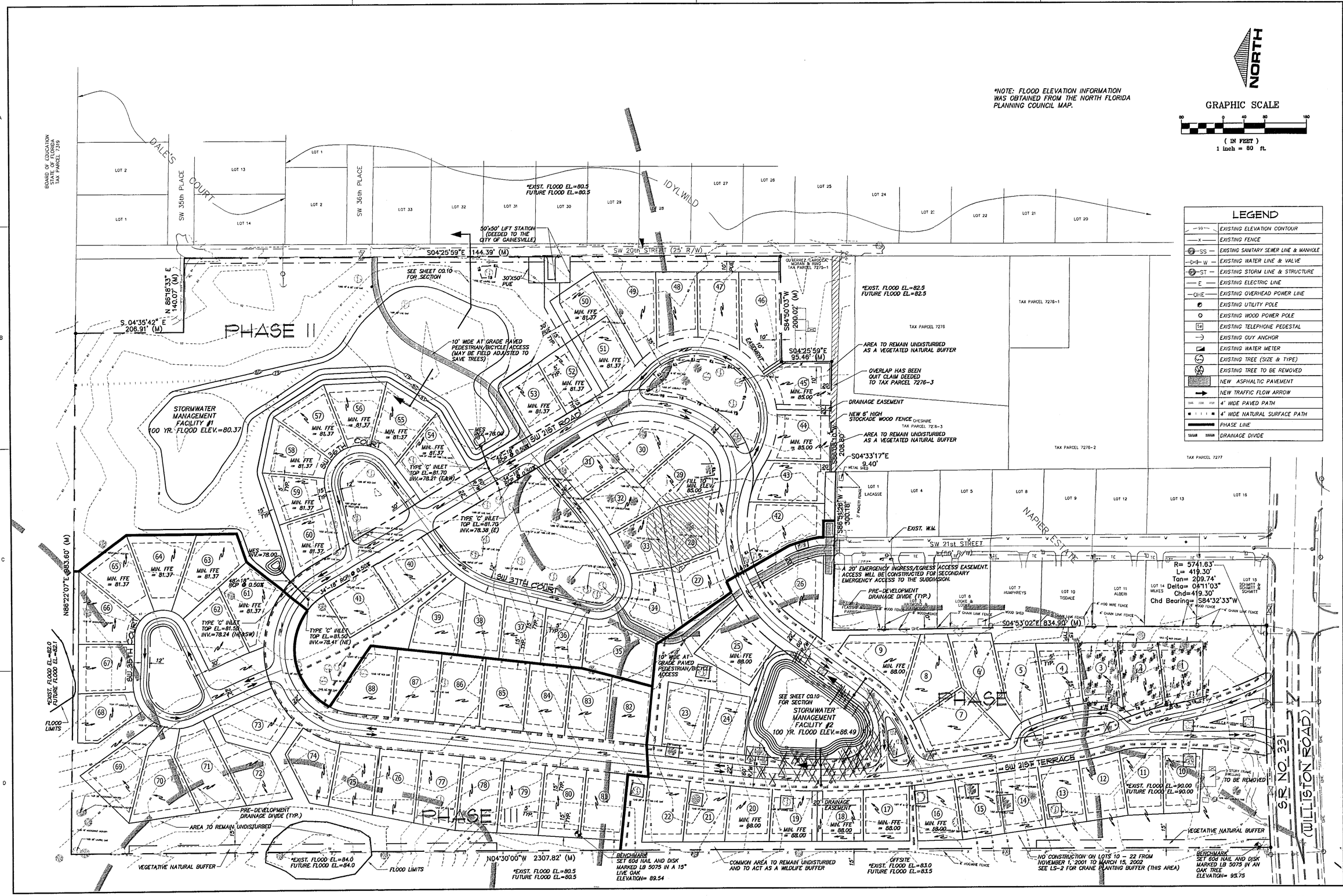
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH, ADJUST SCALES ACCORDINGLY.

REVISIONS

DATE

APPROVED BY: ROBERT P. CAUSSEUAX
DATE: 2/11/02
PE No. 39421

PLOT ID: C.C.P. 01-268D01
01/30/02 08:41



*NOTE: FLOOD ELEVATION INFORMATION WAS OBTAINED FROM THE NORTH FLORIDA PLANNING COUNCIL MAP.

RECEIVED
FEB 04 2002
PAL

CLIENT: GREENTRUST GAINESVILLE, FLORIDA
JOB NO.: 01-268
SHEET NO.: C0.20
PROJECT: MADERA CLUSTER DEVELOPMENT PHASE I
SHEET TITLE: MASTER DRAINAGE PLAN
DESIGNED BY: R.J.WALPOLE, P.E.
DRAWN BY: C.R. POSADA
CHECKED BY: R.P.CAUSSEAUX, P.E.
COMPUTER FILE: 01-268MP.DWG
DATE: DECEMBER 14, 2001

C&E Causseaux & Ellington, Inc.
Engineering • Surveying • Planning
6011 NW 1st Place Gainesville, Florida 32607
Phone: (352) 331-1976 Fax: (352) 331-2476 mailbox@ce-civil.com

VERIFY SCALE BAR IS ONE INCH ON YOUR DRAWING BEFORE SCALING ACCORDINGLY.
0 1" IF NOT ONE INCH, ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

REVISIONS
DATE

SEAL
RORY P. CAUSSEAUX
39421

APPROVED BY: RPC
DATE: 12/12/02
PLOT SCALE: 1"=80'
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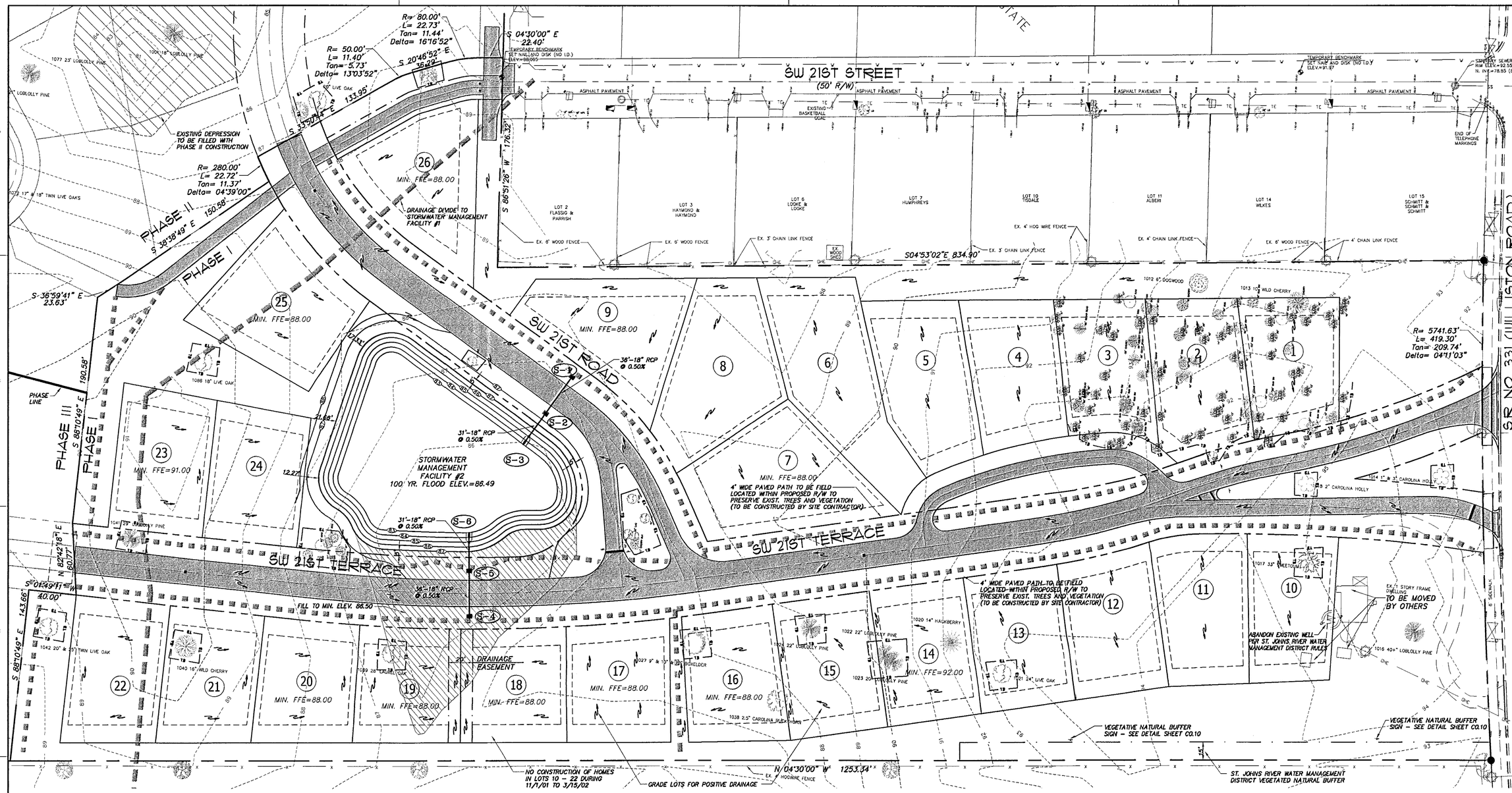

STORMWATER STRUCTURE SCHEDULE

IDENTIFICATION	DESCRIPTION	TOP	PIPE INVERT(S)	STATION/OFFSET
S-1	TYPE 'C' SURFACE INLET WITH TRAVERSABLE SLOTS (2) AND STEEL GRATE PER FDOT INDEX NO 232	86.50	83.34 (W)	STA. 118+07.00 19' LT.
S-2	TYPE 'C' SURFACE INLET WITH TRAVERSABLE SLOTS (2) AND STEEL GRATE PER FDOT INDEX NO 232	86.50	83.16 (E) 83.16 (W)	STA. 118+07.00 19' RT.
S-3	MITERED END SECTION PER FDOT INDEX NO 272	N/A	83.00	STA. 118+07.00 51' RT.
S-4	TYPE 'C' SURFACE INLET WITH TRAVERSABLE SLOTS (2) AND STEEL GRATE PER FDOT INDEX NO 232	86.20	83.34 (E)	STA. 18+17.00 19' RT.
S-5	TYPE 'C' SURFACE INLET WITH TRAVERSABLE SLOTS (2) AND STEEL GRATE PER FDOT INDEX NO 232	86.20	83.16 (W) 83.16 (E)	STA. 18+17.00 19' LT.
S-6	MITERED END SECTION PER FDOT INDEX NO 272	N/A	83.00	STA. 18+17.00 51' LT.

LEGEND

THIS STANDARD LEGEND IS ALL INCLUSIVE AND MAY INCLUDE ITEMS NOT FOUND IN THIS SET OF PLANS

99	EXISTING ELEVATION CONTOUR		EXISTING LIGHT		EXISTING TREE TO BE REMOVED		NEW WATER METER		NEW DRAINAGE SWALE
95.2	EXISTING SPOT ELEVATION		EXISTING UTILITY POLE		EXISTING SHRUBS		NEW WATER MAIN WITH GATE VALVE & BOX		NEW 18" AREA DRAIN
X	EXISTING FENCE		EXISTING WOOD POWER POLE		EXISTING STRUCTURE		NEW FIRE HYDRANT ASSEMBLY		NEW STORM SURFACE INLET
SS	EXISTING SANITARY SEWER LINE & MANHOLE		EXISTING TELEPHONE PEDESTAL		PROJECT BENCHMARK	MH#2	NEW MANHOLE AND SEWER MAIN		DIRECTION OF SURFACE DRAINAGE FLOW
W	EXISTING WATER LINE & VALVE		EXISTING GUY ANCHOR		NEW BUILDING	C/O INV=	NEW CLEANOUT		NEW STORM CURB INLET
ST	EXISTING STORM LINE & STRUCTURE		EXISTING WELL		NEW ASPHALTIC PAVEMENT	FF=	NEW FINISH FLOOR ELEVATION	S-10	NEW STORM STRUCTURE IDENTIFICATION
E	EXISTING ELECTRIC LINE		EXISTING WATER METER		NEW CONCRETE PAVEMENT	SF	NEW SILT FENCE LINE	100.00	NEW SPOT ELEVATION
OHW	EXISTING OVERHEAD UTILITY WIRES		EXISTING FIRE HYDRANT		NEW TRAFFIC FLOW ARROW		DRAINAGE DIVIDE		4' WIDE PAVED PATH
GAS	EXISTING GAS LINE		EXISTING TREE (SIZE & TYPE)	TB	NEW TREE BARRICADE	150	NEW ELEVATION CONTOUR		4' WIDE NATURAL SURFACE PATH

NORTH

GRAPHIC SCALE

40 0 20 40 80

(IN FEET)
1 inch = 40 ft.

CLIENT: GREENTRUST GAINESVILLE, FLORIDA

JOB NO.: 01-268 SHEET NO.: C1.00

PROJECT: MASTER'S CLUSTER DEVELOPMENT PHASE I

SHEET TITLE: GRADING AND DRAINAGE SITE PLAN

DESIGNED BY: R.J.WALPOLE, P.E.
DRAWN BY: C.C. POSADA
CHECKED BY: R.P.CAUSSEUAX, P.E.

COMPUTER FILE: 01-268PG.DWG
DATE: DECEMBER 14, 2001

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REVISIONS | DATE

SEAL
RORY P. CAUSSEAUX
39421

APPROVED BY: RPC
DATE:
PLOT SCALE: 1:40
PLOT DATE: 01-268PG
ATOM / NW 8 PAL

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PAL

NOTE:
SEE SHEET C0.10 FOR NOTES.

NORTH

GRAPHIC SCALE
40 0 20 40 80
(IN FEET)
1 inch = 40 ft.

WATER FITTING SCHEDULE

① 1 – 3" BLOW-OFF ASSEMBLY	⑦ 1 – 8"x2" SADDLE 1 – 2" GATE VALVE AND BOX 2 – 5/8" WATER METER GANG ASSEMBLY
② 1 – 8"x8"x8" TEE W/REACTION BLOCK 2 – 8" GATE VALVE AND BOX	⑧ 1 – 8"x8"x8" TEE W/REACTION BLOCK 3 – 8" GATE VALVE AND BOX
③ 1 – 8"x8"x6" ANCHORING TEE W/REACTION BLOCK 1 – 6" GATE VALVE AND BOX 1 – FIRE HYDRANT ASSEMBLY	⑨ 1 – 8" TAP BY GRU 1 – 8" GATE VALVE AND BOX
④ 1 – 8" 11.25° BEND W/REACTION BLOCK	⑩ 1 – 8" GATE VALVE AND BOX
⑤ 1 – 8"x2" SADDLE 1 – 2" GATE VALVE AND BOX 1 – 5/8" WATER METER GANG ASSEMBLY	⑪ REMOVE EXISTING BLOWOFF CONNECT TO EXIST. WATER LINE
⑥ 1 – 8" 45° BEND W/REACTION BLOCK	NOTE: ALL VALVES UNDER PAVEMENT SHALL BE RESILIENT WEDGE WITH A SQUARE OPERATING NUT.

SW 20TH STREET (25' R/W)
405.35'
LIFT STATION SEE SHEETS C5.00 – C5.40 FOR DETAILS
50'x50' AREA TO BE DEEDED TO THE CITY OF GAINESVILLE
VIBURNUM HEDGE 3'-0" TALL 3' O.C. TO SCREEN LIFT STATION
30'x50' PUE
4" PVC FORCE MAIN
8" PVC S.S. (REFER TO PLAN AND PROFILE SHEETS FOR PIPE LENGTHS AND INVERTS)
PROPOSED ELECTRIC
FUTURE LOT LINES (TYP.)
GUTIERREZ, LAROCCA, MORAN & RING TAX PARCEL 7275-1
EX. 2 STORY FRAME & CONCRETE BLOCK DWELLING
EASEMENT TO TAX PARCEL #7275-1
DRAINAGE EASEMENT
OVERLAP TO BE QUIT CLAIM DEEDED TO TAX PARCEL 7276-3
CHESHIRE TAX PARCEL 7276-3
NAPIER ESTATE
EX. METAL SHED
EX. 3' PICKETT FENCE
LOT 1 LAGASSE
LOT 4
LOT 5
LOT 8
PHASE II
PHASE I
S 04°30'00" E 22.40'
TEMPORARY BENCHMARK SET NAIL AND DISK (NO I.D.) ELEV=88.00
SW 21ST STREET (50' R/W)
ASPHALT PAVEMENT
EXISTING BASKETBALL GOAL
4" PVC FORCE MAIN
S 86°51'26" W 176.32'
LOT 2 FLASIG & PARRISH
LOT 3 HAYWOOD & HAYWOOD
LOT 6 LOOKE & LOOKE
LOT 7 HUMPHREYS
EX. 6' WOOD FENCE
EX. 3' CHAIN LINK FENCE
EX. WOOD SHED
S04°53'02"E 834.90'
EX. 4' HOG
R= 80.00' L= 22.73' Tan= 11.44' Delta= 16°16'52"
R= 50.00' L= 11.40' Tan= 5.73' Delta= 13°03'52"
S 20°46'52" E 35.29'
S 50°34'4" E 133.95'
R= 280.00' L= 22.72' Tan= 11.37' Delta= 04°39'00"
S 38°38'49" E 150.58'
S 36°59'41" E 23.63'
8" PVC W.M.
8" DIP W.M.
8" PVC S.S.
1-2" PVC FOR GAS SERVICE
PROPOSED ELECTRIC & GAS
26 MIN. FFE=88.00
25 MIN. FFE=88.00
9 MIN. FFE=88.00
PHASE II
PHASE I
SW 21ST
MH#1
MH#2
MH#3
MH#4
MH#5
MH#6
MH#7
MH#8
MH#9
MH#10
MH#11
35' PUE
30' PUE
80' PUE
1062 32" LAUREL OAK
1063 25" LOBLOLLY PINE
1008 24" LOBLOLLY PINE
1007 10" & 18" RED OAK
1009 20" LIVE OAK
1005 24" LOBLOLLY PINE
1006 24" LIVE OAK
1004 15" RED OAK
1002 12" SWEETGUM
1010 17" LOBLOLLY PINE
1059 31" AND 20" TWIN LIVE OAKS
1064 24" LOBLOLLY PINE
1066 18" MOCKERNUT HICKORY
1079 (5) 9" TO 16" LIVE OAKS
1065 22" LOBLOLLY PINE
1068 15" LOBLOLLY PINE
1070 20" LOBLOLLY PINE
1080 22" LIVE OAK
1067 26" LOBLOLLY PINE
1069 10" LOBLOLLY PINE
1076 11" & 25" TWIN LIVE OAK
1001 18" LOBLOLLY PINE
1077 23" LOBLOLLY PINE
1071 21" LOBLOLLY PINE
1081 20" LIVE OAK
1082 TRIPLE 27" OAK
1083 17" RED OAK
1075 18" LOBLOLLY PINE
1073 31" LAUREL OAK
1078 14" RED OAK
1072 17" & 18" TWIN LIVE OAKS
1074 13" RED OAK

GREENTRUST GAINESVILLE, FLORIDA
SHEET NO.: C2.00
JOB NO.: 01-268
PROJECT: MADERA CLUSTER DEVELOPMENT PHASE 1
SHEET TITLE: WATER AND SANITARY SEWER SITE PLAN
DESIGNED BY: R.J. WALPOLE, P.E.
DRAWN BY: C.C. POSADA
CHECKED BY: R.P. CAUSSEAUX, P.E.
COMPUTER FILE: 01-268WS.DWG
DATE: DECEMBER 14, 2001

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EB-0000029
6011 NW 1st Place, Gainesville, Florida 32607
Phone: (352) 331-1976 Fax: (352) 331-2476 mailbox@ce-civil.com

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REVISIONS
DATE

RORY P. CAUSSEAUX
39421

APPROVED BY:
DATE: 7/1/02

PLOT ID:C.C.P. 01-268WS
01/31/02 15:49

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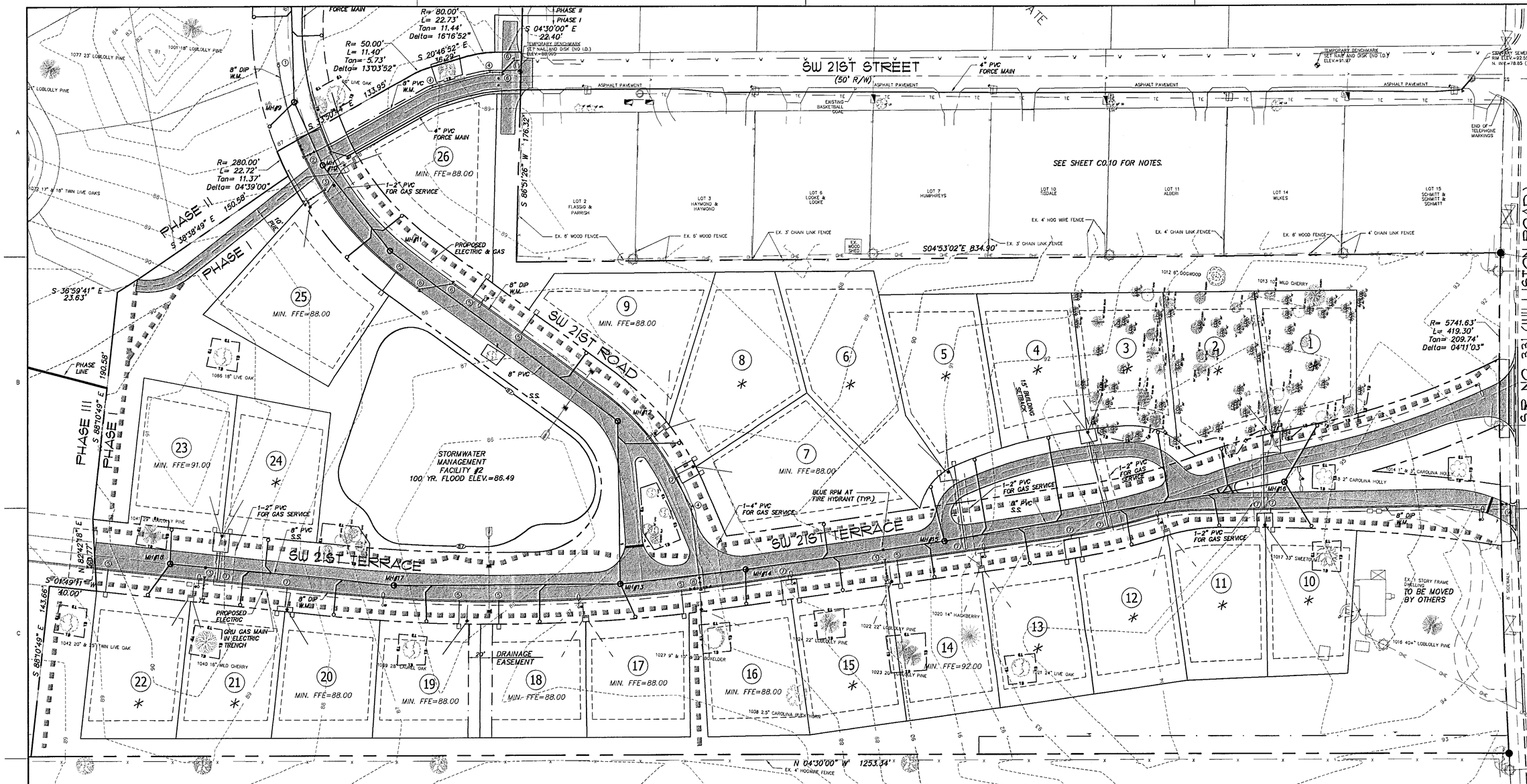

NOTE: FINISHED FLOOR ELEVATIONS SHOWN HEREON ARE SHOWN FOR THE PURPOSES OF ESTABLISHING MINIMUM FINISHED FLOOR ELEVATIONS TO PREVENT SEWAGE BACKFLOW. ALL LOTS WITH ✱ MUST HAVE A GRU APPROVED SEWAGE BACKFLOW PREVENTION DEVICE INSTALLED ON THE SANITARY SEWER LATERAL.

WATER FITTING SCHEDULE

① 1 – 3" BLOW-OFF ASSEMBLY	⑦ 1 – 8"x2" SADDLE 1 – 2" GATE VALVE AND BOX 2 – 5/8" WATER METER GANG ASSEMBLY
② 1 – 8"x8"x8" TEE W/REACTION BLOCK 2 – 8" GATE VALVE AND BOX	⑧ 1 – 8"x8"x8" TEE W/REACTION BLOCK 3 – 8" GATE VALVE AND BOX
③ 1 – 8"x8"x8" ANCHORING TEE W/REACTION BLOCK 1 – 8" GATE VALVE AND BOX 1 – FIRE HYDRANT ASSEMBLY	⑨ 1 – 8" TAP BY GRU 1 – 8" GATE VALVE AND BOX
④ 1 – 8" 11.25° BEND W/REACTION BLOCK	⑩ 1 – 8" GATE VALVE AND BOX
⑤ 1 – 8"x2" SADDLE 1 – 2" GATE VALVE AND BOX 1 – 5/8" WATER METER GANG ASSEMBLY	⑪ REMOVE EXISTING BLOWOFF CONNECT TO EXIST. WATER LINE
⑥ 1 – 8" 45° BEND W/REACTION BLOCK	NOTE: ALL VALVES UNDER PAVEMENT SHALL BE RESILIENT WEDGE WITH A SQUARE OPERATING NUT.

LEGEND

THIS STANDARD LEGEND IS ALL INCLUSIVE AND MAY INCLUDE ITEMS NOT FOUND IN THIS SET OF PLANS

99	EXISTING ELEVATION CONTOUR		EXISTING LIGHT		EXISTING TREE TO BE REMOVED		NEW WATER METER		NEW DRAINAGE SWALE
95.2	EXISTING SPOT ELEVATION		EXISTING UTILITY POLE		EXISTING SHRUBS		NEW WATER MAIN WITH GATE VALVE & BOX		NEW 18" AREA DRAIN
x	EXISTING FENCE		EXISTING WOOD POWER POLE		EXISTING STRUCTURE		NEW FIRE HYDRANT ASSEMBLY		NEW STORM SURFACE INLET
SS	EXISTING SANITARY SEWER LINE & MANHOLE		EXISTING TELEPHONE PEDESTAL		PROJECT BENCHMARK	MH#2	NEW MANHOLE AND SEWER MAIN		DIRECTION OF SURFACE DRAINAGE FLOW
W	EXISTING WATER LINE & VALVE		EXISTING GUY ANCHOR		NEW BUILDING	C/O IN=2	NEW CLEANOUT		NEW STORM CURB INLET
ST	EXISTING STORM LINE & STRUCTURE		EXISTING WELL		NEW ASPHALTIC PAVEMENT	FF=	NEW FINISH FLOOR ELEVATION	S-10	NEW STORM STRUCTURE IDENTIFICATION
E	EXISTING ELECTRIC LINE		EXISTING WATER METER		NEW CONCRETE PAVEMENT	SF	NEW SILT FENCE LINE	.100.00	NEW SPOT ELEVATION
OHW	EXISTING OVERHEAD UTILITY WIRES		EXISTING FIRE HYDRANT		NEW TRAFFIC FLOW ARROW		DRAINAGE DIVIDE		4' WIDE PAVED PATH
GAS	EXISTING GAS LINE		EXISTING TREE (SIZE & TYPE)	TB	NEW TREE BARRICADE	150	NEW ELEVATION CONTOUR		4' WIDE NATURAL SURFACE PATH

CLIENT: GREENTRUST GAINESVILLE, FLORIDA

JOB NO.: 01-268

SHEET NO.: C2.10

PROJECT: MARCITA CLUSTER DEVELOPMENT PHASE I

SHEET TITLE: WATER AND SANITARY SEWER SITE PLAN

DESIGNED BY: R.J.WALPOLE, P.E.
DRAWN BY: C.C. POSADA
CHECKED BY: R.P. CAUSSEUAX, P.E.

COMPUTER FILE: 01-268WS.DWG
DATE: DECEMBER 14, 2001

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REVISIONS | DATE

SEAL: ROBERT P. CAUSSEAUX 39421

APPROVED BY: 12/11/01
DATE:

PLOT SCALE: 01-268WS
PLOT DATE: 02/14/02, 9:52

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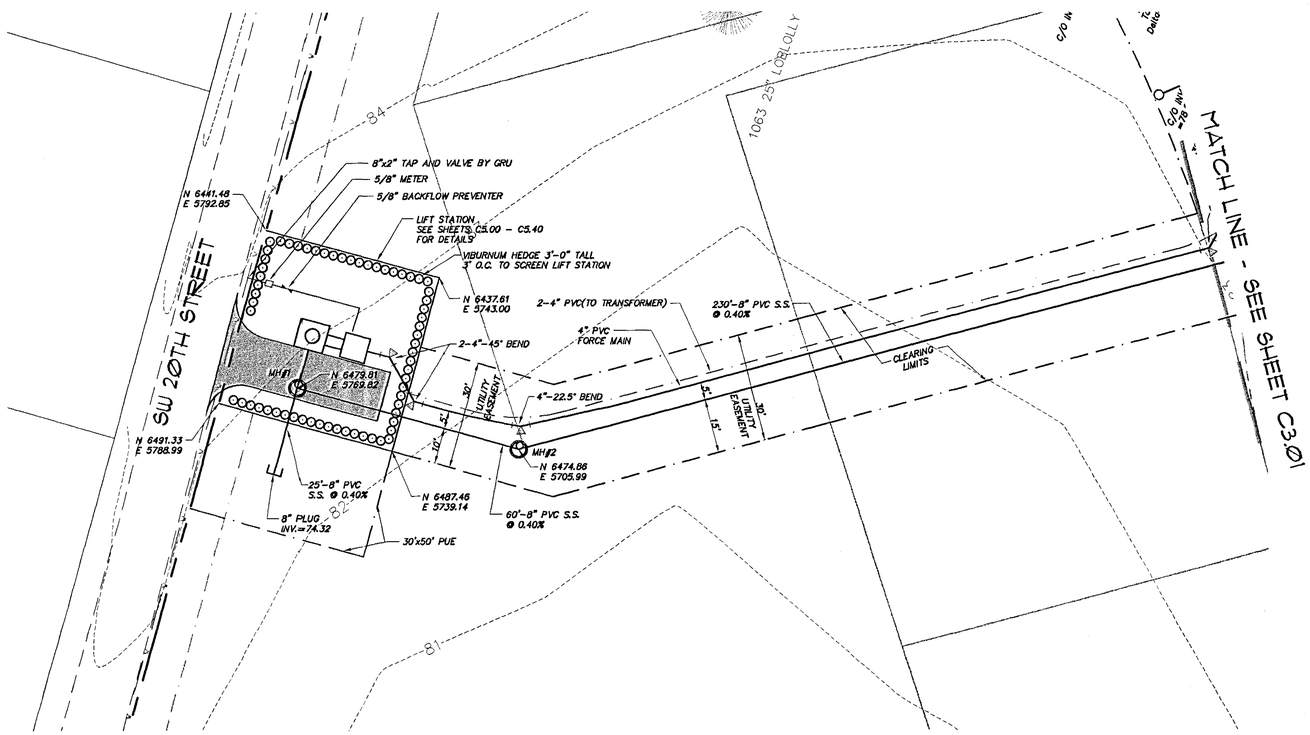
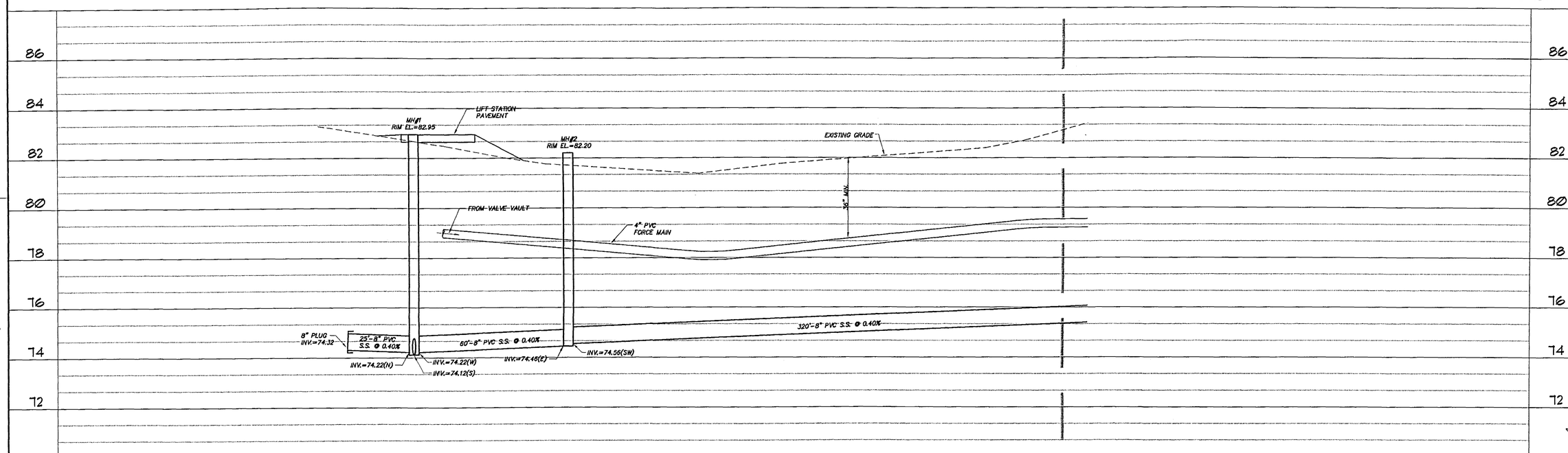


SCALE: 1" = 20' HORIZ.
1" = 2' VERT.



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CLIENT: GREENTRUST GAINESVILLE, FLORIDA
JOB NO.: 01-268
SHEET NO.: C3.00

PROJECT: MADERA CLUSTER DEVELOPMENT PHASE I
SHEET TITLE: SANITARY SEWER AND ROADWAY PLAN AND PROFILE

DESIGNED BY: R.J.WALPOLE, P.E.
DRAWN BY: C.C. POSADA
CHECKED BY: R.P.CAUSSEUAX, P.E.

COMPUTER FILE: 01-268PP.DWG
DATE: DECEMBER 14, 2001

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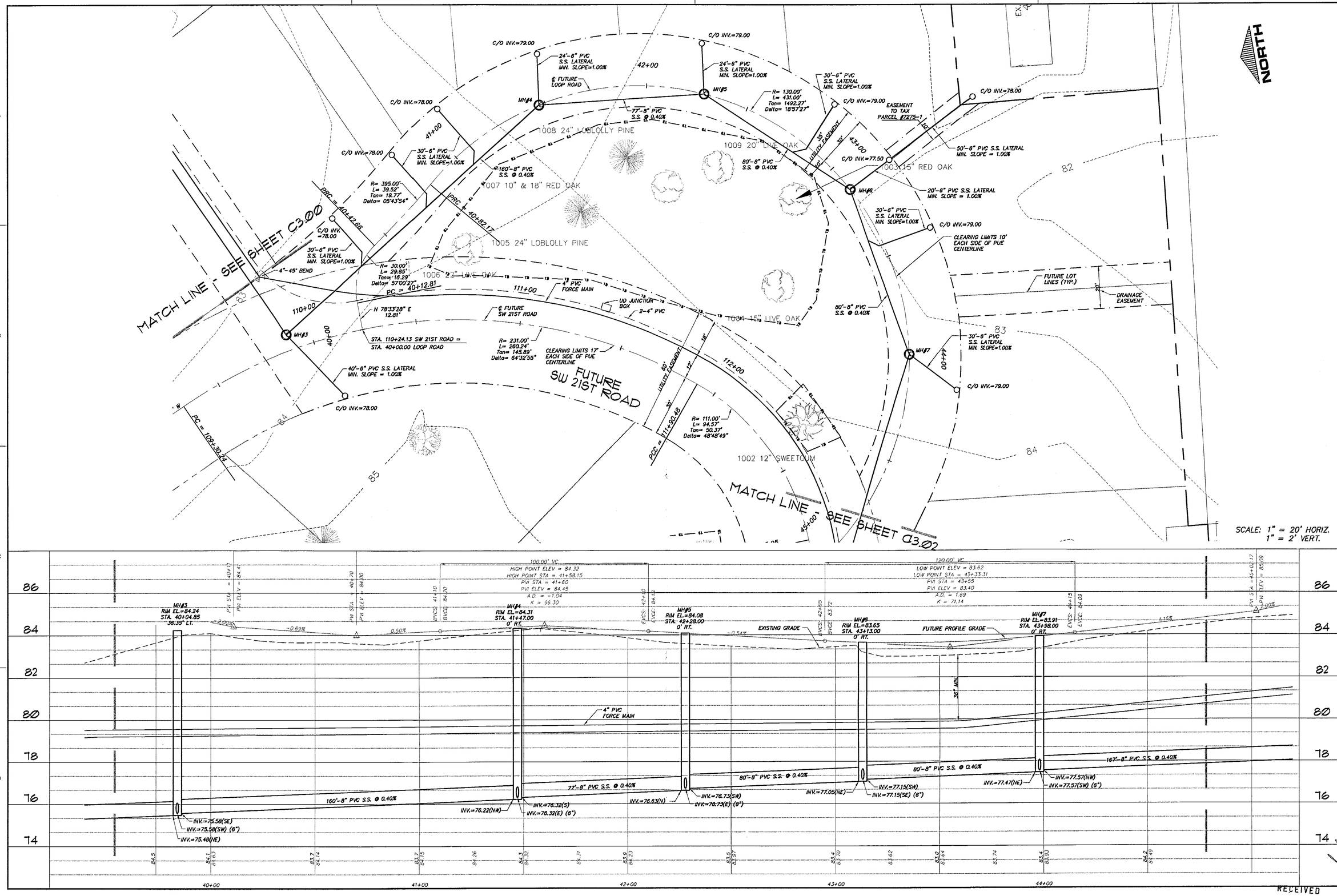
DESIGNED BY:
DATE: 1/31/02

PLOT BY: C.C.P. 01-268pp
01/31/02 10:42



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CLIENT: GREENTRUST GAINESVILLE, FLORIDA

JOB NO.: 01-268 SHEET NO.: C3.01

PROJECT: LADERA CLUSTER DEVELOPMENT PHASE I

SHEET TITLE: SANITARY SEWER AND ROADWAY PLAN AND PROFILE

DESIGNED BY: R.J.WALPOLE, P.E.
DRAWN BY: C.C. POSADA
CHECKED BY: R.F.CAUSSEUAX, P.E.

COMPUTER FILE: 01-268PP.DWG
DATE: DECEMBER 14, 2001

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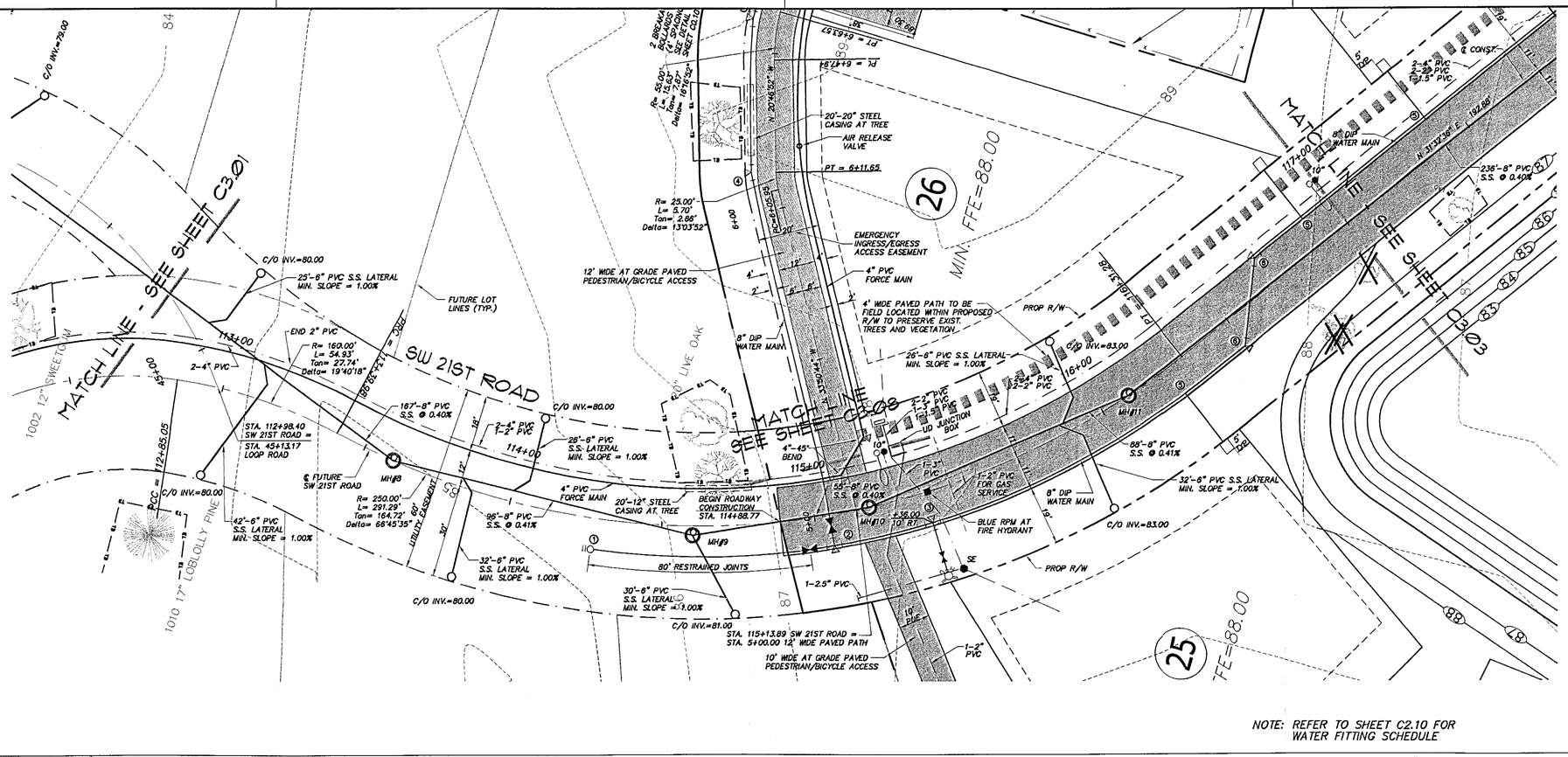
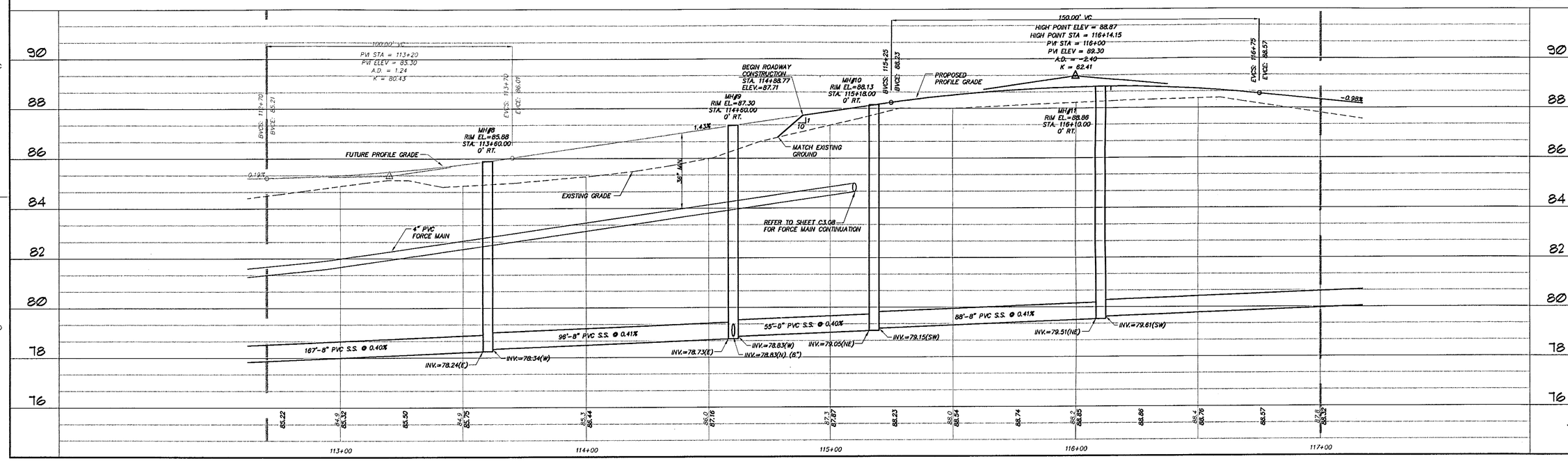
PLOT DATE: 02/01/02 15:42



NOTE: REFER TO SHEET C2.10 FOR WATER FITTING SCHEDULE

SCALE: 1" = 20' HORIZ. 1" = 2' VERT.



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CLIENT: GREENTRUST, GAINESVILLE, FLORIDA
JOB NO.: 01-268
SHEET NO.: C3.02
PROJECT: MADERA CLUSTER DEVELOPMENT (PHASE I)
SHEET TITLE: SANITARY SEWER AND ROADWAY PLAN AND PROFILE
COMPUTER FILE: 01-268PP.DWG
DATE: DECEMBER 14, 2001
DESIGNED BY: J.W. NOLE, P.E.
DRAWN BY: C.C. POSADA
CHECKED BY: R.P. CAUSSEUAX, P.E.

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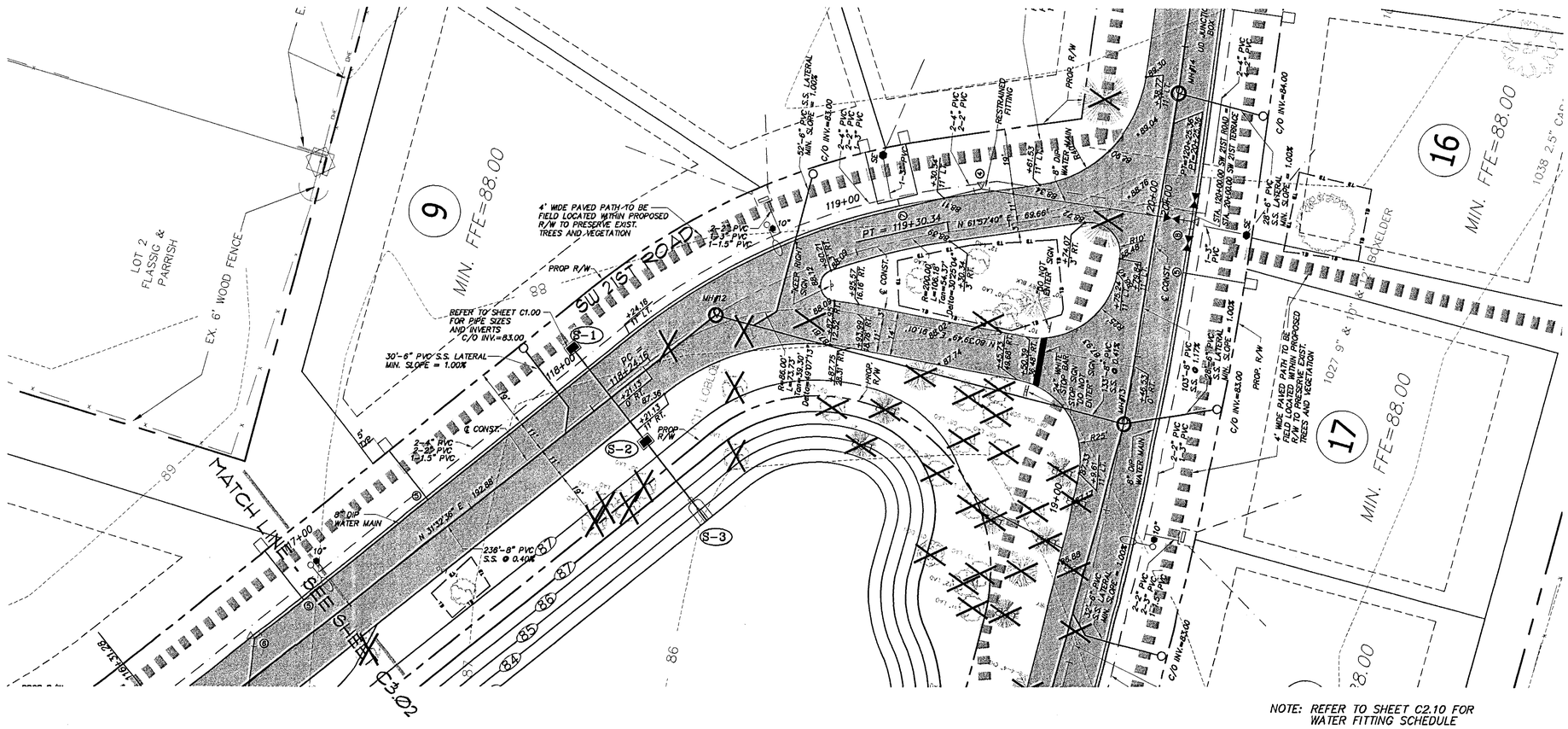
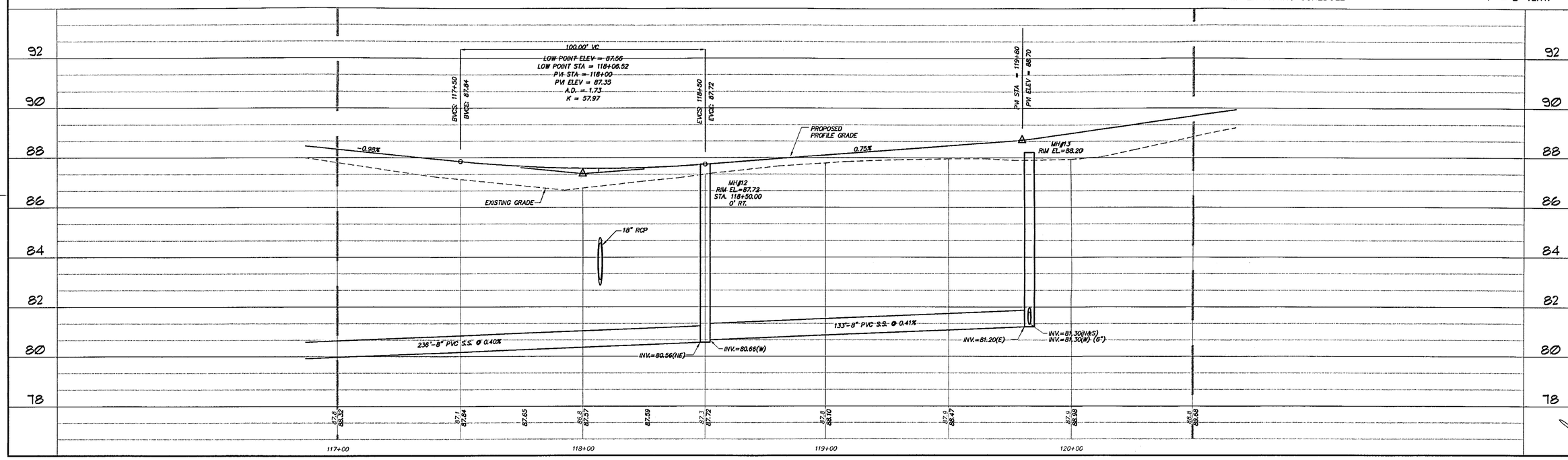


NOTE: REFER TO SHEET C2.10 FOR WATER FITTING SCHEDULE

SCALE: 1" = 20' HORIZ.
1" = 2' VERT.



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CLIENT: GREENTRUST GAINESVILLE, FLORIDA
JOB NO.: 01-268
SHEET NO.: C3.03
PROJECT: MADERA CLUSTER DEVELOPMENT PHASE I
SHEET TITLE: SANITARY SEWER AND ROADWAY PLAN AND PROFILE
DESIGNED BY: R.J.WALPOLE, P.E.
DRAWN BY: C.C. POSADA
CHECKED BY: R.P.CAUSSEUAX, P.E.
COMPUTER FILE: 01-268PP.DWG
DATE: DECEMBER 14, 2001

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REVISIONS
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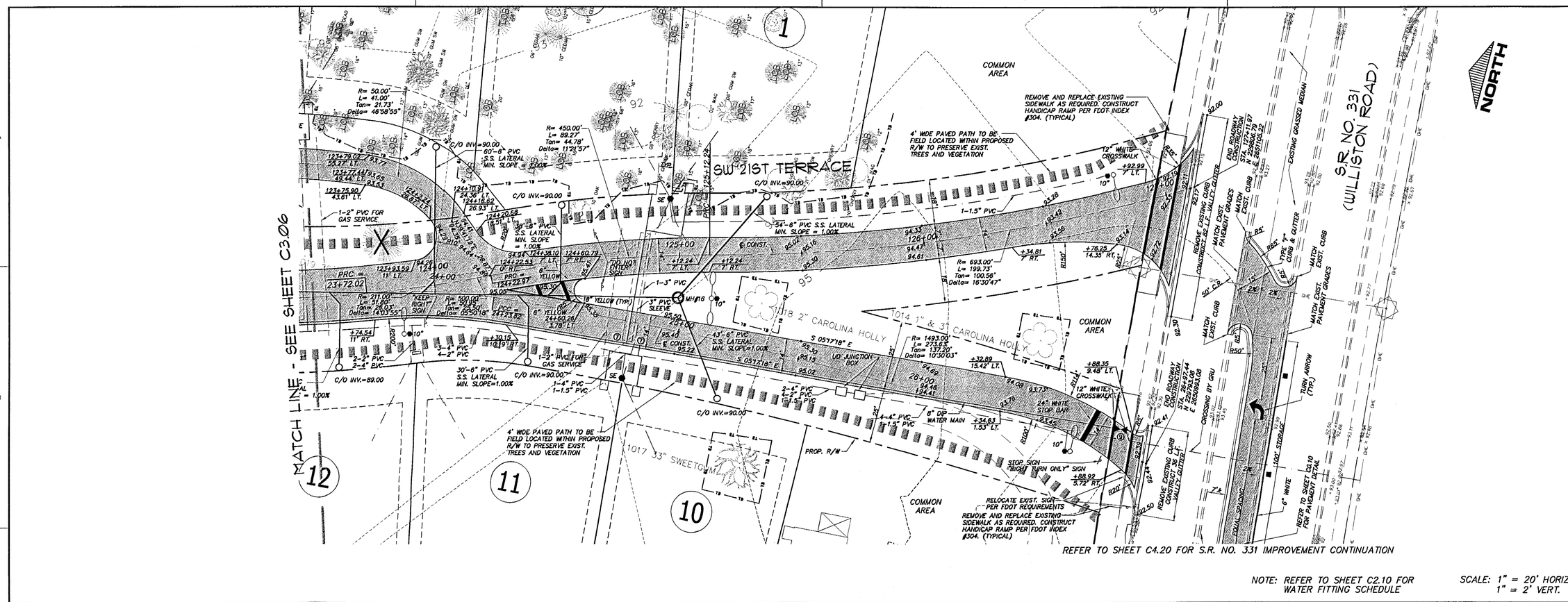
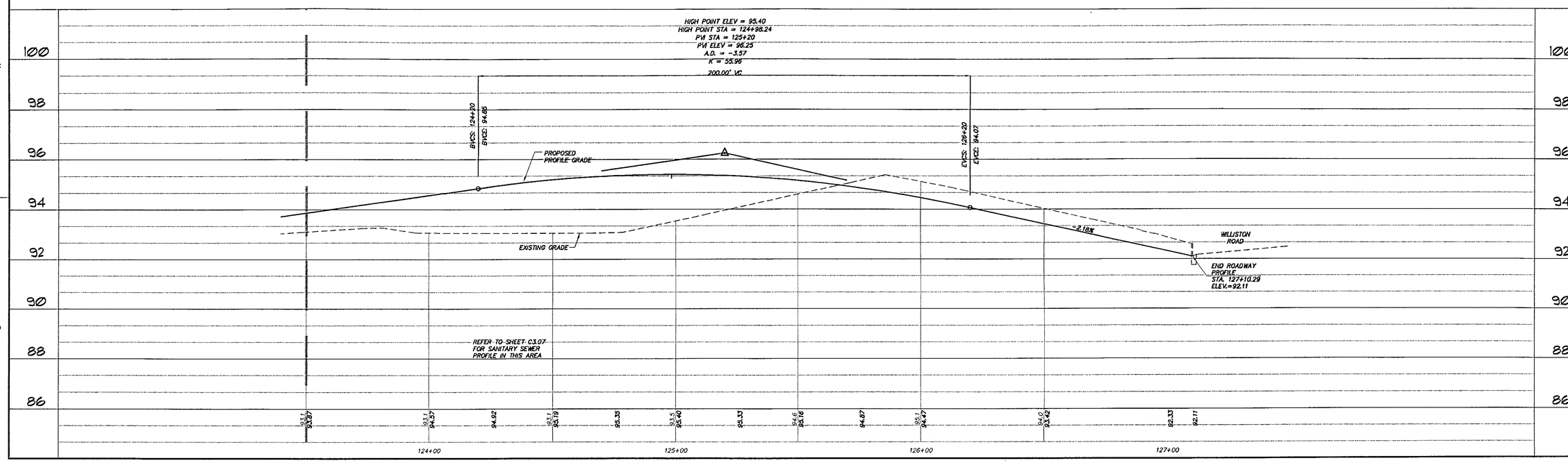
APPROVED BY:
DATE: 1/31/02
PLOT BY: C.C.P. 01-Bishop
01/31/02 19:46



NOTE: REFER TO SHEET C2.10 FOR WATER FITTING SCHEDULE

SCALE: 1" = 20' HORIZ. 1" = 2' VERT.



GREENTRUST
GAINESVILLE, FLORIDA

JOB NO.: 01-268
SHEET NO.: C3.04

PROJECT: MADERA CLUSTER DEVELOPMENT PHASE 1

SHEET TITLE: SANITARY SEWER AND ROADWAY PLAN AND PROFILE

DESIGNED BY: R.P. CAUSSEUAX, P.E.
DRAWN BY: C.C. POSADA
CHECKED BY: R.P. CAUSSEUAX, P.E.

COMPUTER FILE: 01-268PP.DWG
DATE: DECEMBER 14, 2001

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VERT. SCALE: BAR IS 1" ON ORIGINAL DRAWING
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REVISIONS

DATE

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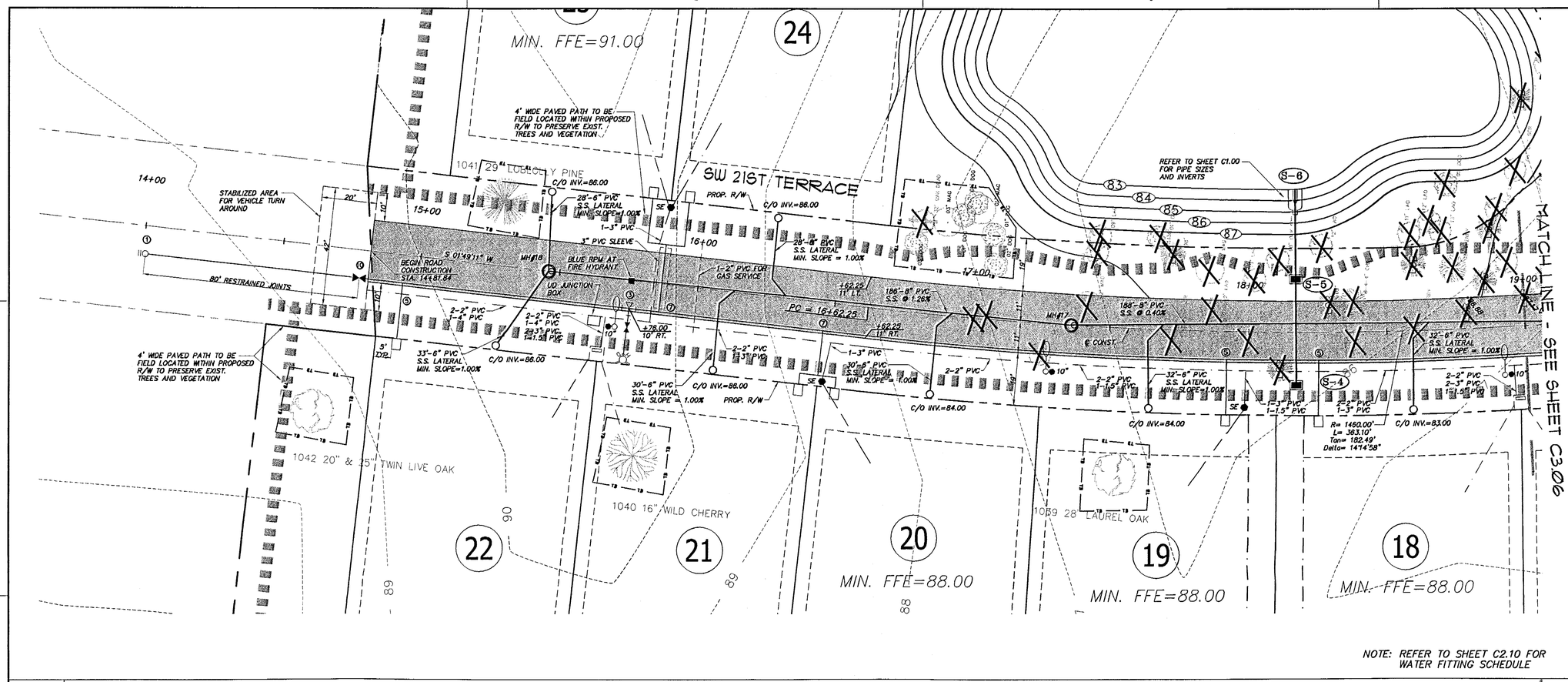
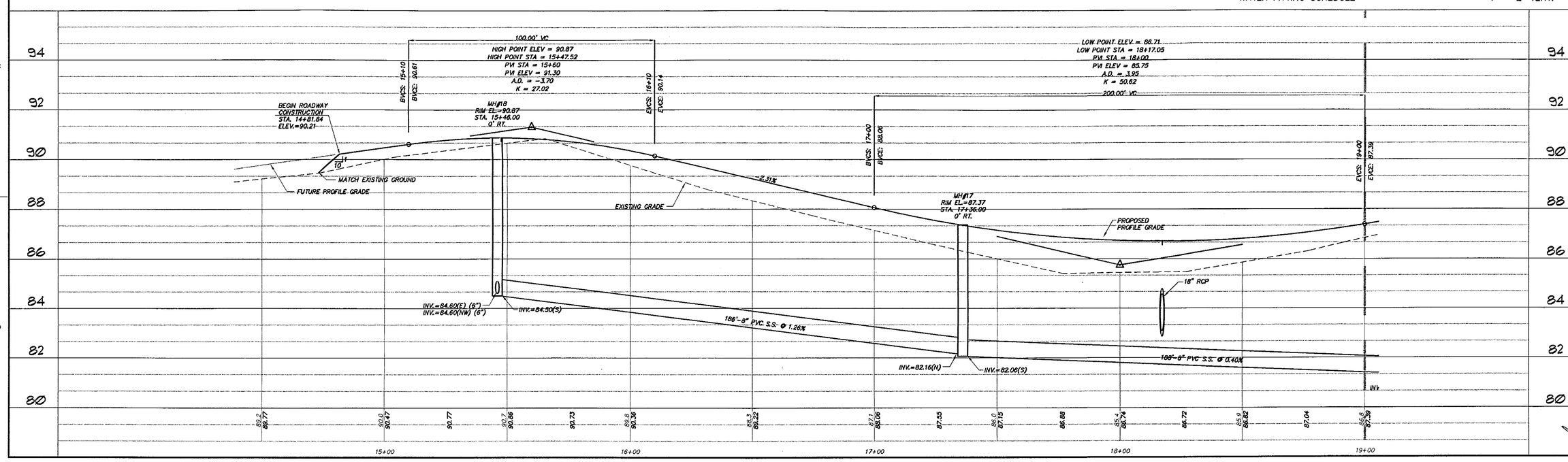
APPROVED BY: DATE: 2/11/02

PLOT ID: C.E.P. 01-268pp
02/01/02 11:00



NOTE: REFER TO SHEET C2.10 FOR WATER FITTING SCHEDULE

SCALE: 1" = 20' HORIZ.
1" = 2' VERT.



CLIENT: GREEN TRUST GAINESVILLE, FLORIDA

JOB NO.: 01-268

SHEET NO.: C3.05

PROJECT: MADERA CLUSTER DEVELOPMENT PHASE I

SHEET TITLE: SANITARY SEWER AND ROADWAY PLAN AND PROFILE

DESIGNED BY: R.J.WALPOLE, P.E.

DRAWN BY: C.D. FONSECA

CHECKED BY: R.P.CAUSSEUAX, P.E.

COMPUTER FILE: 01-268PP.DWG

DATE: DECEMBER 14, 2001

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REVISIONS

DATE

SEAL

APPROVED BY: [signature]
DATE: 12/12/02

PLOT SCALE: 01-268pp
PLOT DATE: 12/12/02 10:46

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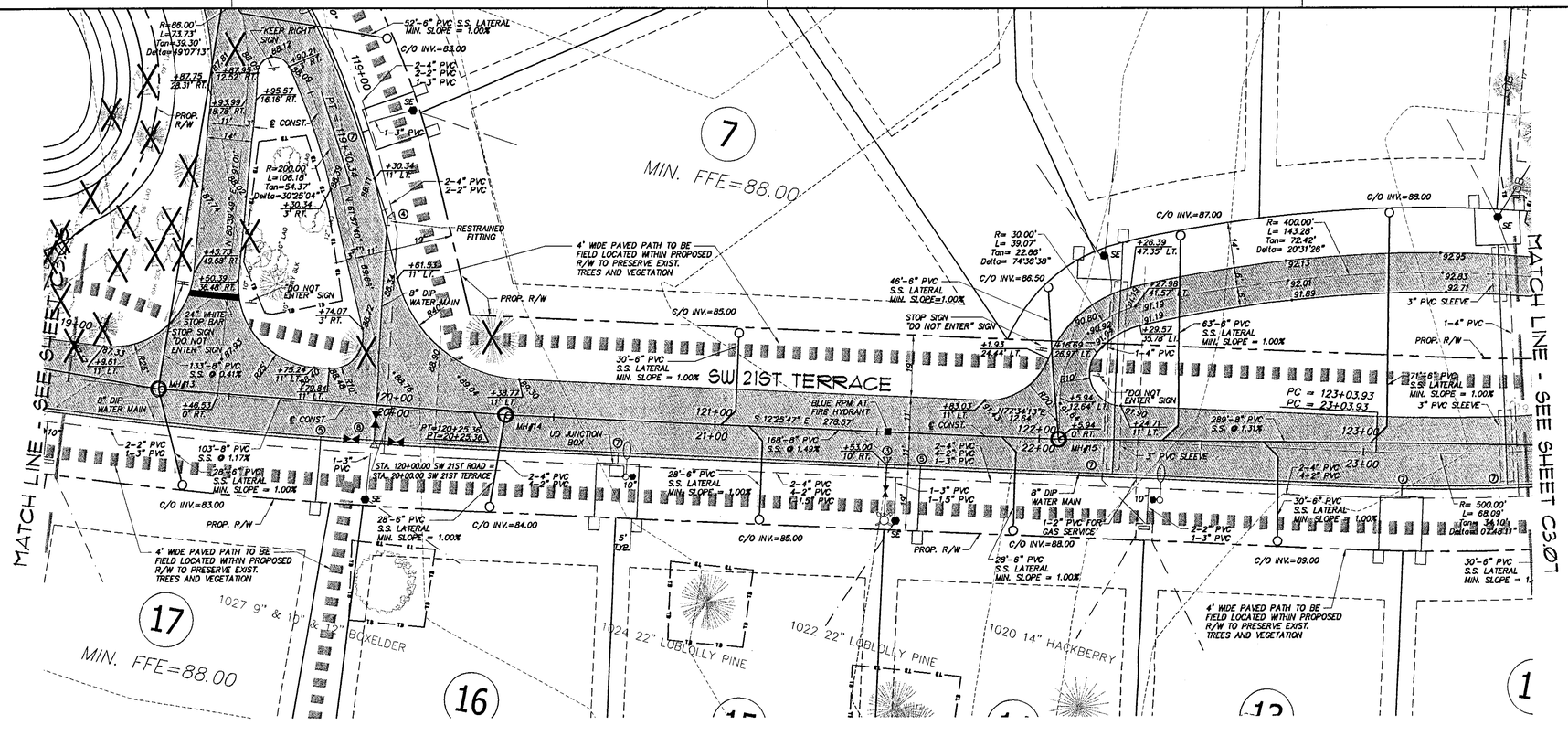
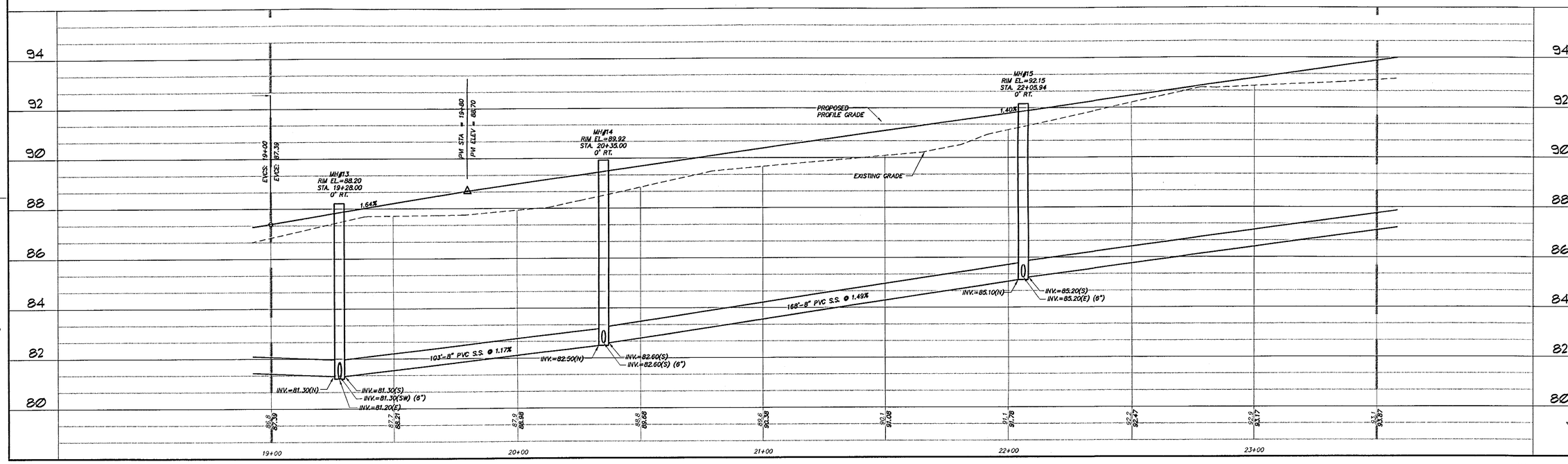
PAL





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CLIENT: GREENTRUST, GAINESVILLE, FLORIDA
JOB NO.: 01-268
SHEET NO.: C3.06
PROJECT: MADERA CLUSTER DEVELOPMENT PHASE I
SHEET TITLE: SANITARY SEWER AND ROADWAY PLAN AND PROFILE
DESIGNED BY: R.J.WALPOLE, P.E.
DRAWN BY: J.CASADA
CHECKED BY: R.P.CAUSSEAUX, P.E.
COMPUTER FILE: 01-268PP.DWG
DATE: DECEMBER 14, 2001

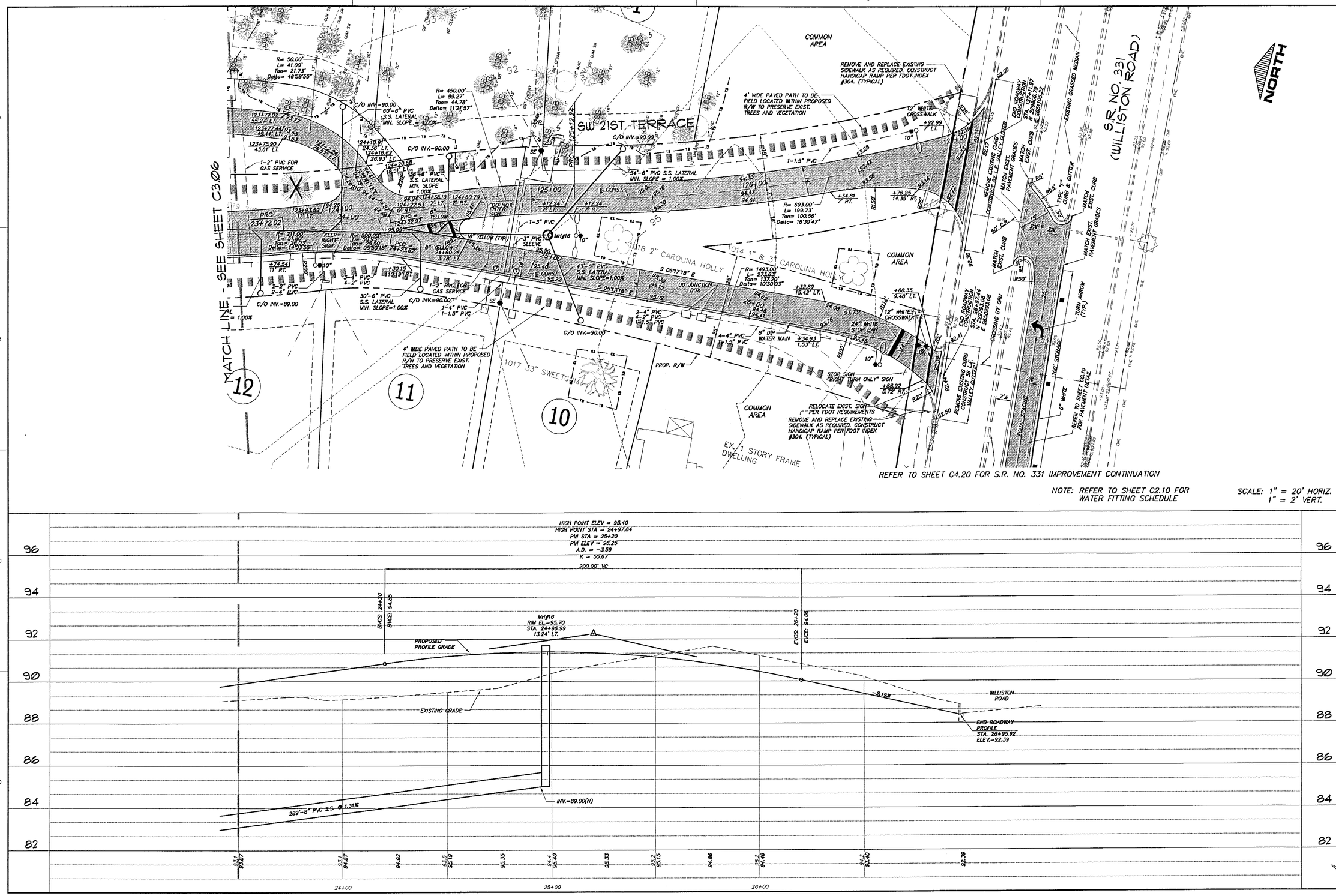
G&E Caussaux & Ellington, Inc.
Engineering • Surveying • Planning
6011 NW 1st Place, Gainesville, Florida 32607
Phone: (352) 331-1976 Fax: (352) 331-2476 mailbox@ce-civil.com

1" NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

REVISIONS
DATE

SEAL

APPROVED BY:
DATE:
PLOT @ C-2.2 01/31/02 19:46



CLIENT: GREENTRUST GAINESVILLE, FLORIDA

JOB NO.: 01-268 SHEET NO.: C3.07

PROJECT: MADERA CLUSTER DEVELOPMENT PHASE I

SHEET TITLE: SANITARY SEWER AND ROADWAY PLAN AND PROFILE

DESIGNED BY: R.J. WALPOLE, P.E. DRAWN BY: C.C. POSADA CHECKED BY: R.P. CAUSSEAUX, P.E.

COMPUTER FILE: 01-268PP.DWG DATE: DECEMBER 14, 2001

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Engineering • Surveying • Planning
6011 NW 1st Place, Gainesville, Florida 32607
Phone: (352) 331-1976 Fax: (352) 331-2476 mailbox@ce-civil.com

BAR IS ONE INCH ON ORIGINAL DRAWING 0 1" NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

REVISIONS | DATE

SEAL

PLOT SCALE: 01-268pp

PLOT DATE: 02/01/02 11:00

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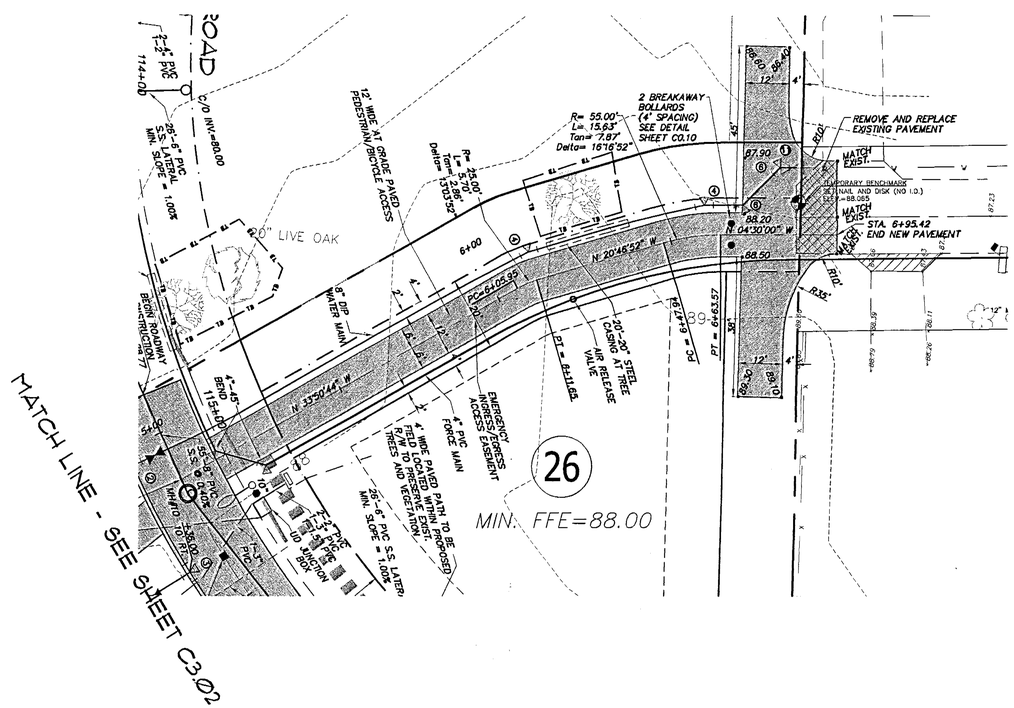
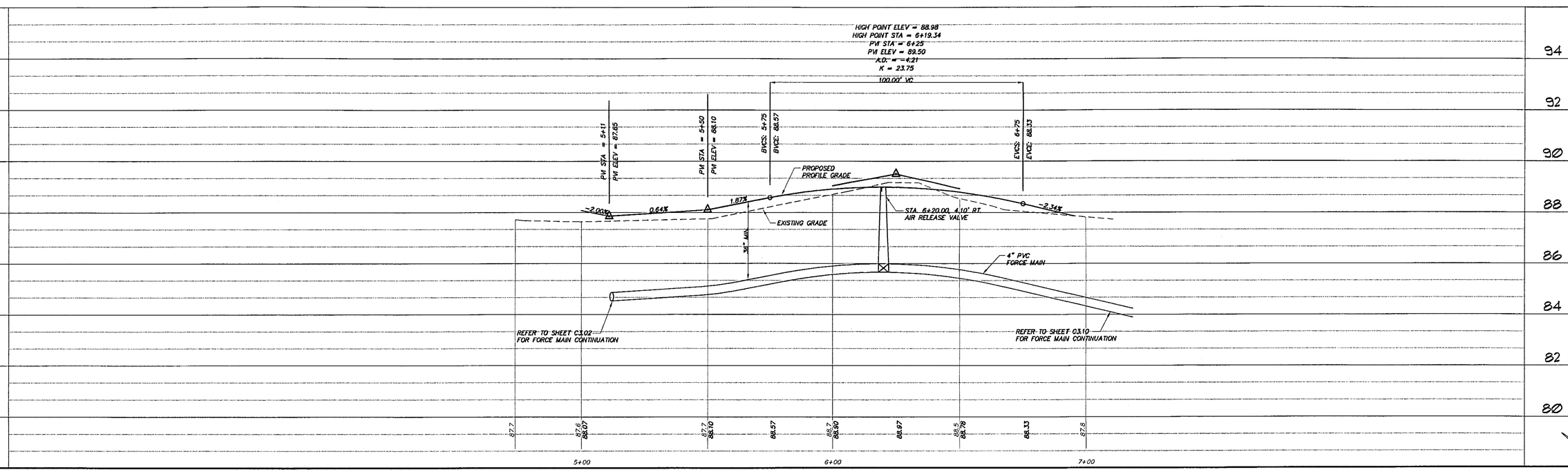


NORTH

NOTE: REFER TO SHEET C2.10 FOR WATER FITTING SCHEDULE

SCALE: 1" = 20' HORIZ.
1" = 2' VERT.



CLIENT:	GREEN TRUST GAINESVILLE, FLORIDA
PROJECT:	MADERA CLUSTER DEVELOPMENT PHASE I
JOB NO:	01-268
SHEET NO:	C3.08
SHEET TITLE:	SANITARY SEWER AND ROADWAY PLAN AND PROFILE
DESIGNED BY:	R.J.WALPOLE, P.E.
DRAWN BY:	C.C.FERNANDA
CHECKED BY:	R.P.CAUSSEUAX, P.E.
COMPUTER FILE:	01-268PP.DWG
DATE:	DECEMBER 14, 2001

"ALWAY SCALE BAR ON DRAWING" 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

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Phone: (352) 331-1976 Fax: (352) 331-2476 mailbox@ce-civil.com

REVISIONS

DATE	

SEAL

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DATE:
PLOT ID:C.D. 01-268pp
01/31/02 19:42

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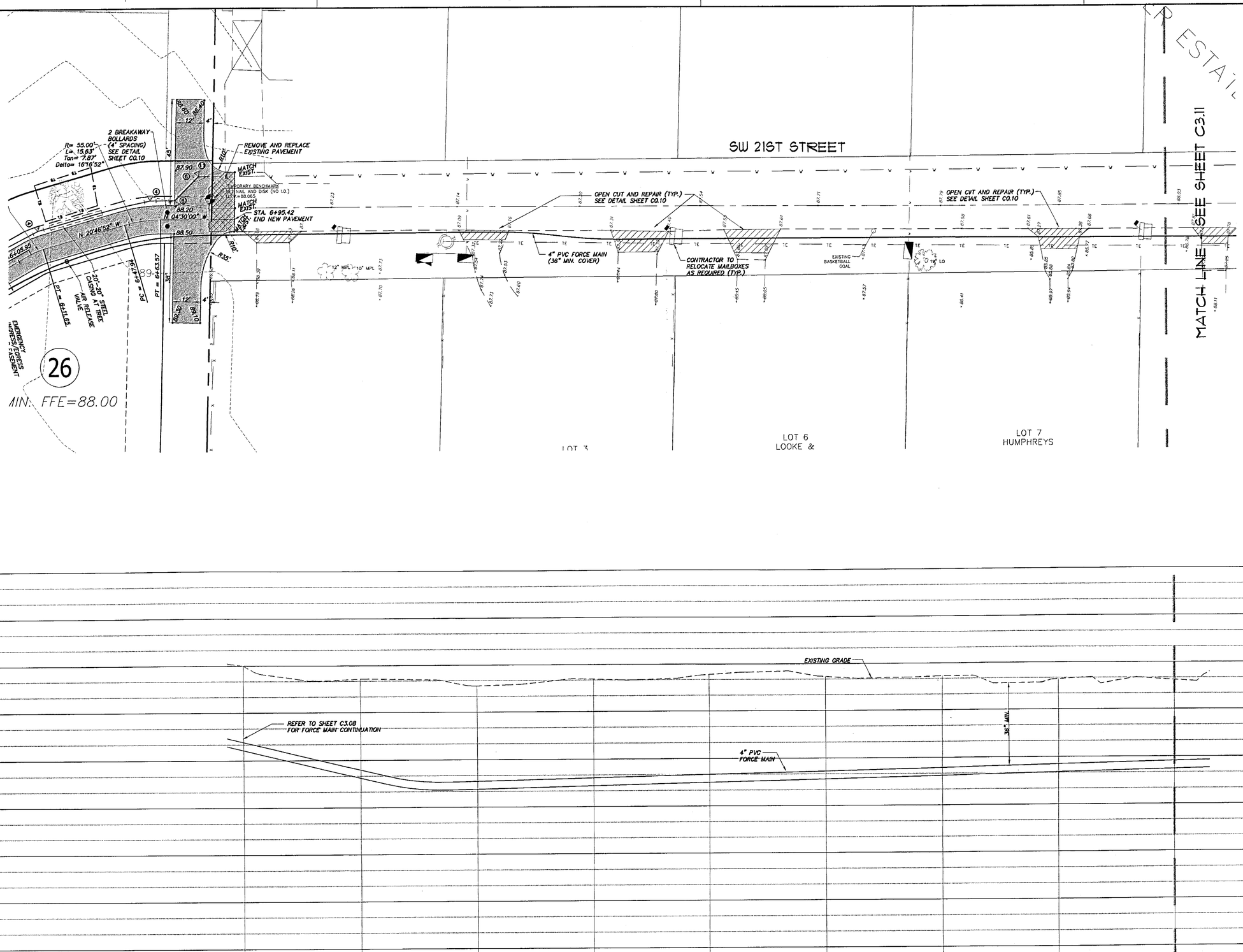
FEB 04 2002
PAL



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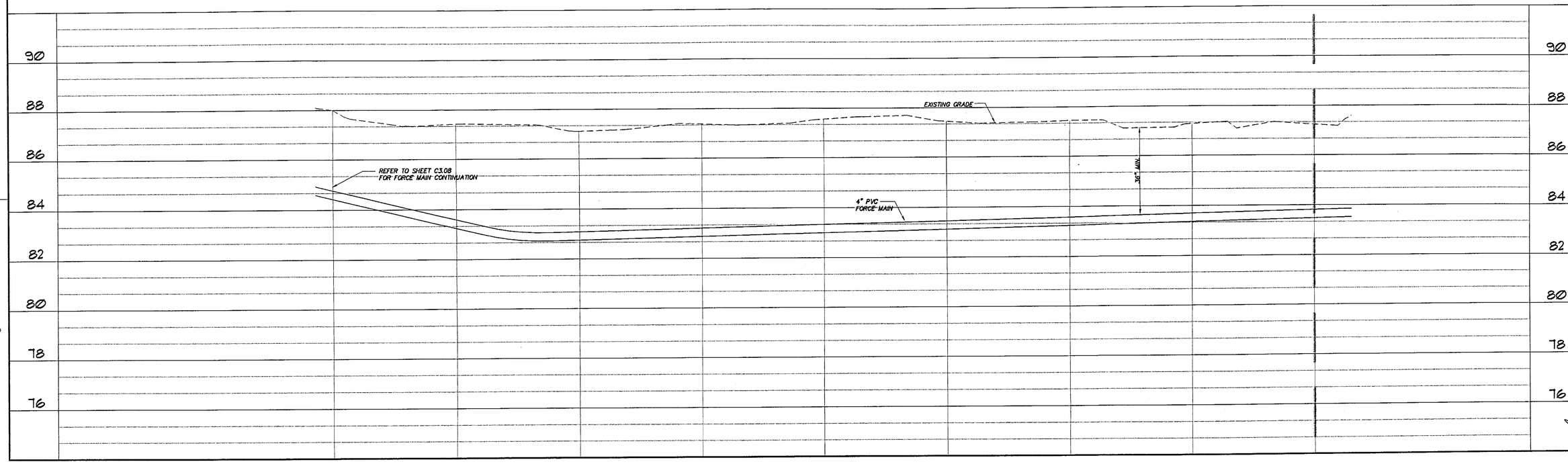
1" = 2' VERT.



RECEIVED
FEB 04 2002
PAL

CLIENT: GREENTRUST, GAINESVILLE, FLORIDA
JOB NO.: 01-268
SHEET NO.: C3.10
PROJECT: HADFIELD CLUSTER DEVELOPMENT PHASE I
SHEET TITLE: OFF-SITE FORCE MAIN PLAN AND PROFILE
DESIGNED BY: R.J.WALPOLE, P.E.
DRAWN BY: C.C. POSADA
CHECKED BY: R.F.CAUSSEAUX, P.E.
COMPUTER FILE: 01-268PP.DWG
DATE: DECEMBER 14, 2001

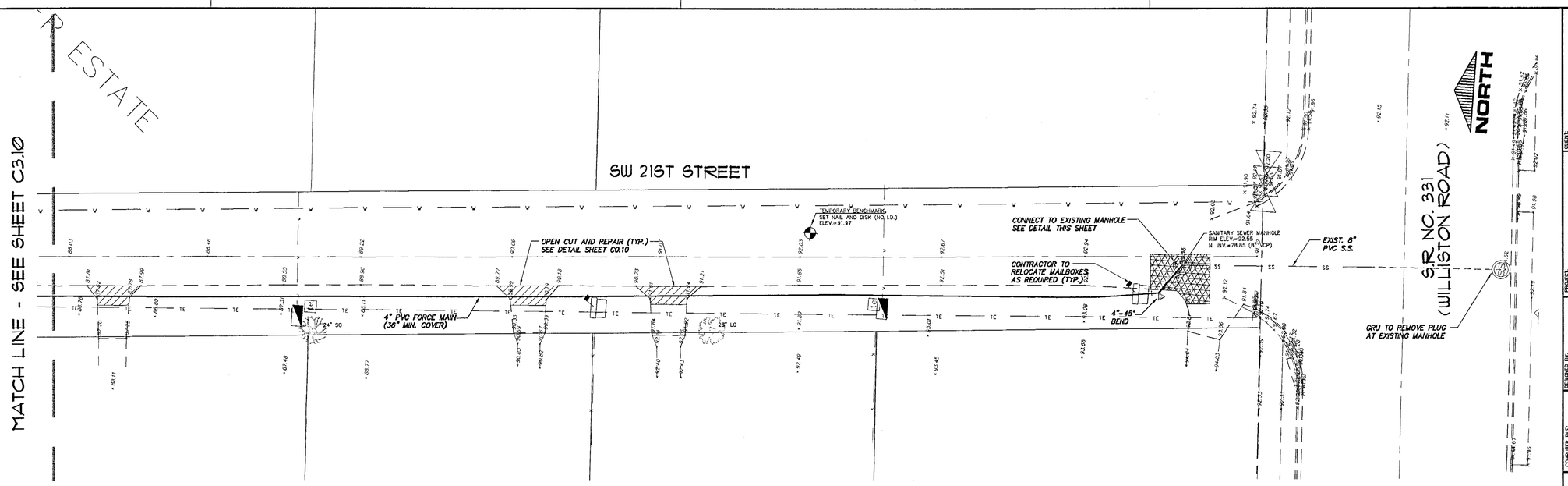
Causseaux & Ellington, Inc.
Engineering • Surveying • Planning
6011 NW 1st Place, Gainesville, Florida 32607
Phone: (352) 331-1976 Fax: (352) 331-2476 mailbox@ce-civil.com

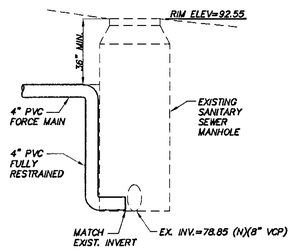
VERT. SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1" 2"
IF NOT 1" USE THIS SCALE FOR SHEETS INCLUDED SCALES ACCORDINGLY

REVISIONS
DATE

SEAL

APPROVED BY:
DATE:
PLOT @ C.C.P. 01/31/02 19:42 01-268pp

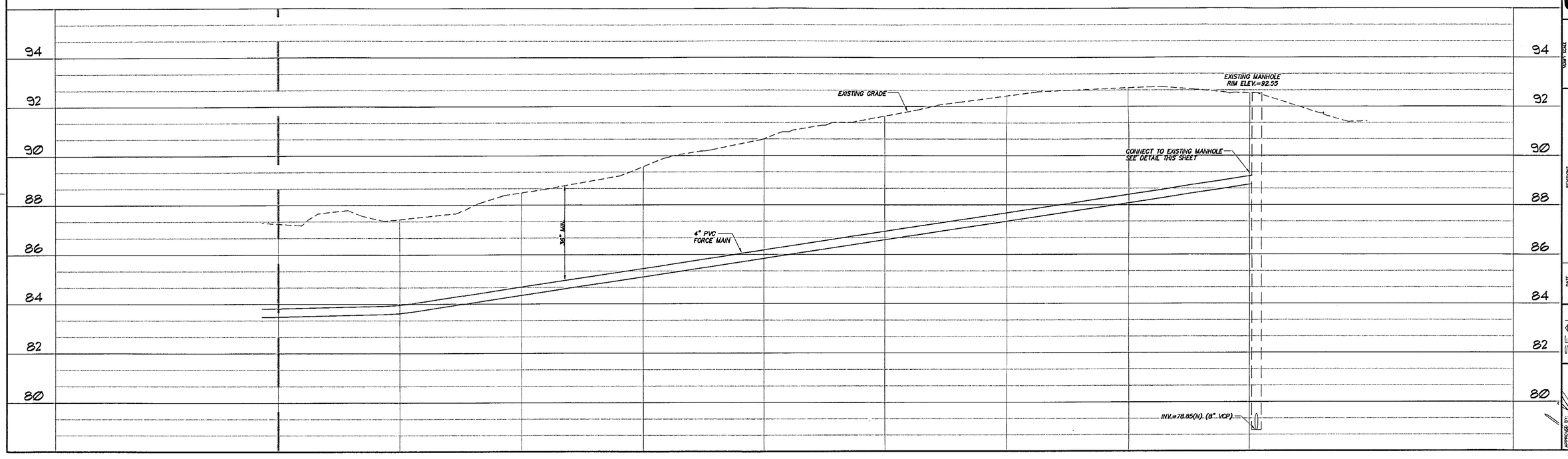




MANHOLE CONNECTION DETAIL

NTS

SCALE: 1" = 20' HORIZ.
1" = 2' VERT.



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FEB 04 2002
PAL

CLIENT: GREENTRUST GAINESVILLE, FLORIDA

JOB NO.: 01-268

SHEET NO.: C3.11

PROJECT: MADERA CLUSTER DEVELOPMENT

SHEET TITLE: OFF-SITE FORCE MAIN PLAN AND PROFILE

DESIGNED BY: R.J.WALPOLE, P.E.

DRAWN BY: C.C. POSADA

CHECKED BY: R.P.CAUSSEUAX, P.E.

COMPUTER FILE: 01-268PP.DWG

DATE: DECEMBER 14, 2001

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YOUR SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING

0 1"

IF NOT ONE INCH, ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

REVISIONS

DATE

SEAL

APPROVED BY:

DATE: 12/11/02

PLOT © C.E.I. 01-268pp 01/30/02 15:42

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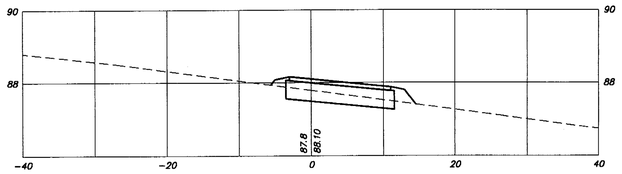

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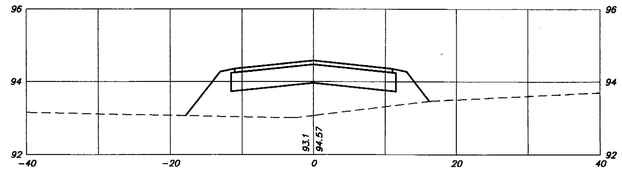

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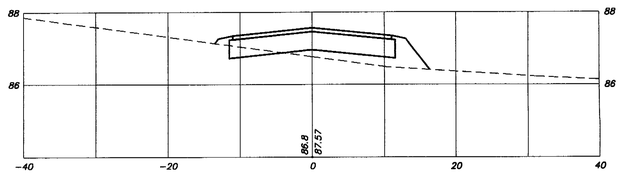

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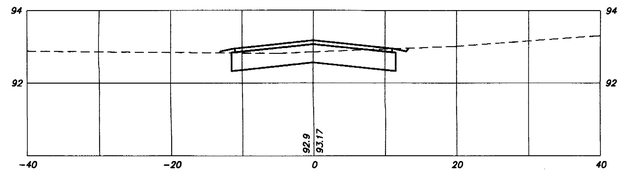

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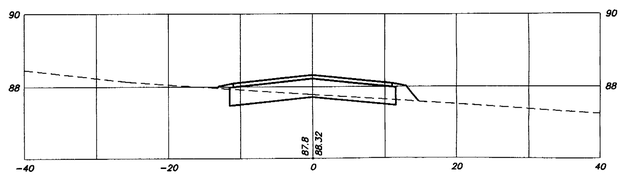

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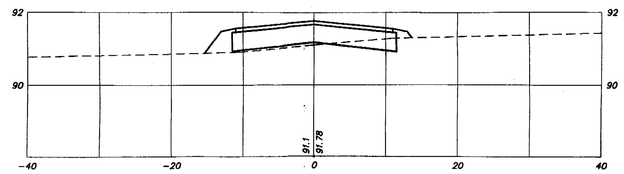

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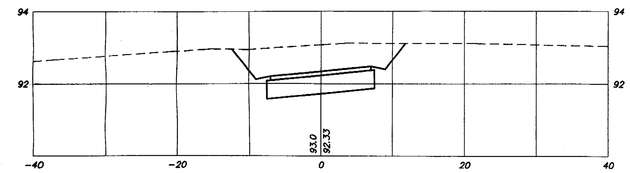

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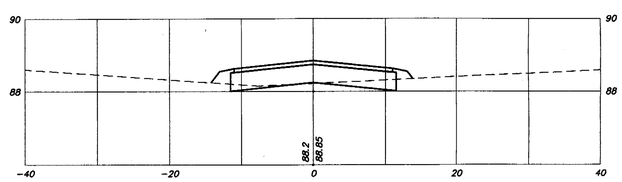

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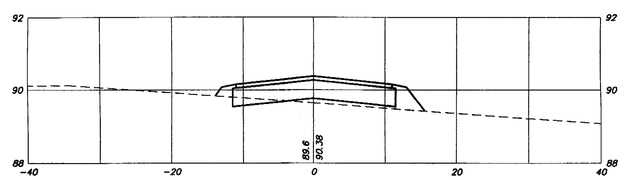

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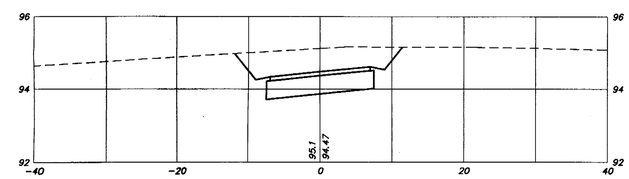

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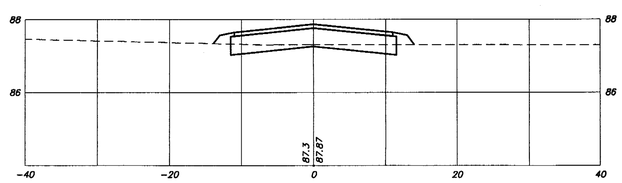
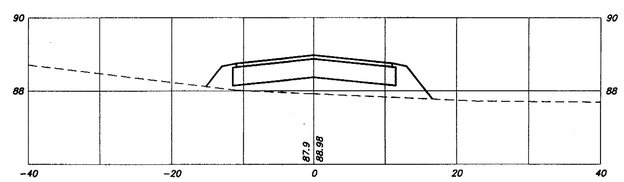


SW 21ST ROAD

120+00



SW 21ST ROAD

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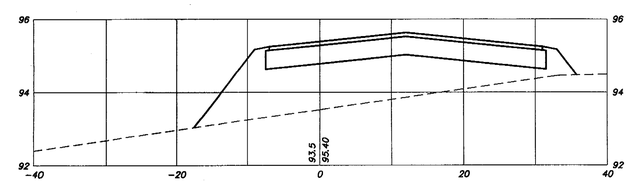

SW 21ST TERRACE

SCALE: 1" = 10' HORIZ.
1" = 2' VERT.

CLIENT: GREENTRUST GAINESVILLE, FLORIDA

JOB NO.: 01-268 SHEET NO.: C4.00

PROJECT: MADERA CLUSTER DEVELOPMENT PHASE I

SHEET TITLE: ROADWAY CROSS SECTIONS

DESIGNED BY: R.J.WALPOLE, P.E.
DRAWN BY: C.C.SOSADA
CHECKED BY: R.P.CAUSSEUAX, P.E.

COMPUTER FILE: 01-268CS.DWG
DATE: DECEMBER 14, 2001

C&E Causseaux & Ellington, Inc.
Engineering • Surveying • Planning
6011 NW 1st Place, Gainesville, Florida 32607
Phone: (352) 331-1976 Fax: (352) 331-2476 mailbox@ce-civil.com

"IDEAL" SCALE
BASED ON PLOTTING ON 24x36 PAPER
0 1" 2"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

REVISIONS | DATE

SEAL
ANTHONY P. CAUSSEAUX
39421

APPROVED BY: [signature]
DATE: 1/21/02

PLOT BY: C.C.P. 01-268CS
PLOT TIME: 01/21/02 20:16

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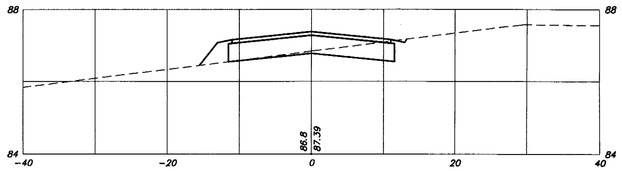
19+00



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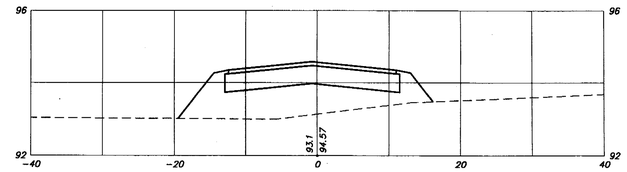

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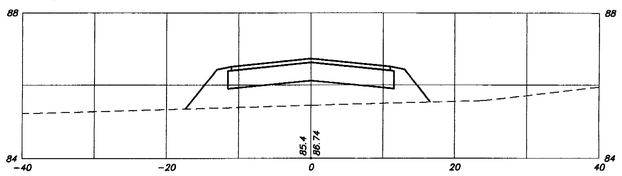

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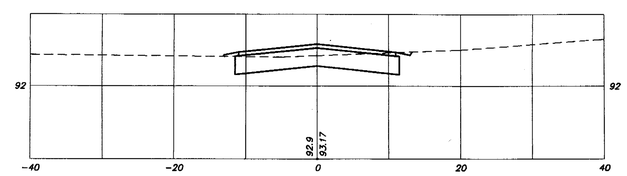

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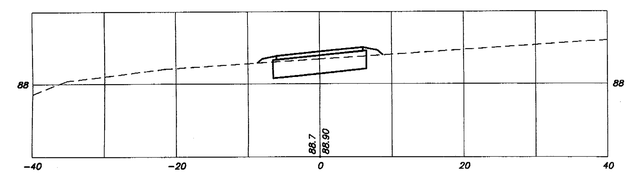

12' PAVED PATH

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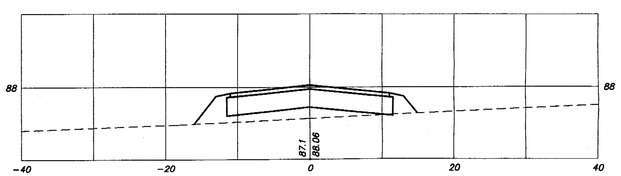

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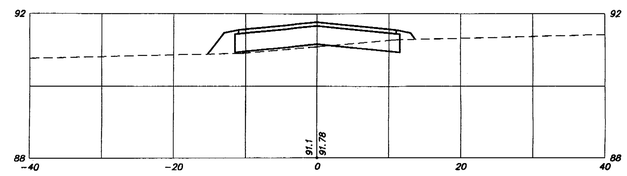

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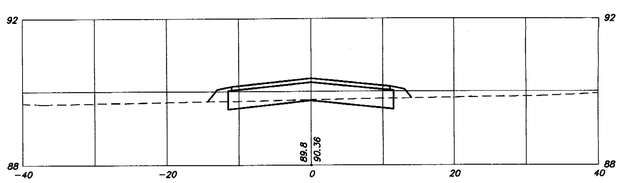

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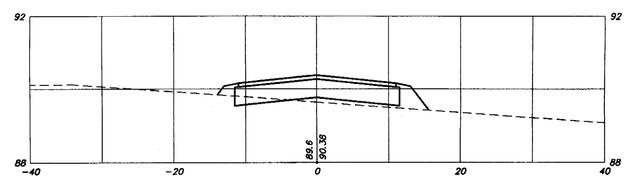

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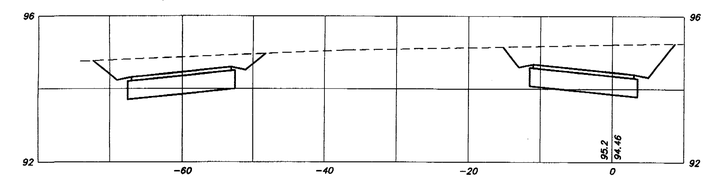

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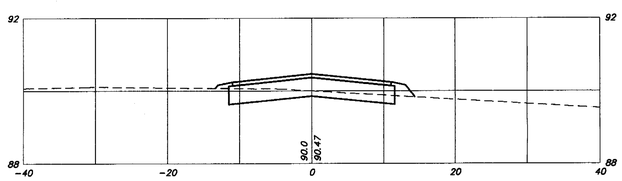
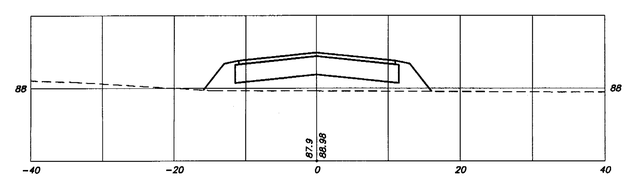


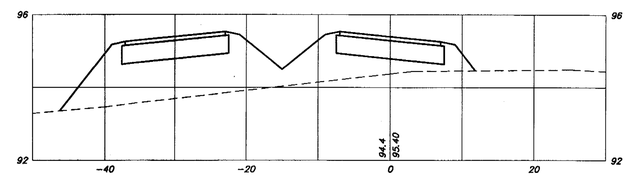
SW 21ST TERRACE

20+00



SW 21ST TERRACE

25+00



SW 21ST TERRACE

SCALE: 1" = 10' HORIZ.
1" = 2' VERT.

CLIENT: CRESLENT REALTY GAINESVILLE, FLORIDA

JOB NO.: 01-268 SHEET NO.: C4.10

PROJECT: MADERA CLUSTER DEVELOPMENT PHASE I

SHEET TITLE: ROADWAY CROSS SECTIONS

DESIGNED BY: R.J.WALPOLE, P.E.
DRAWN BY: C.C. POSADA
CHECKED BY: R.P.CAUSSEUAX, P.E.

COMPUTER FILE: 01-268CS.DWG
DATE: DECEMBER 14, 2001

C&E Causseaux & Ellington, Inc.
Engineering • Surveying • Planning
EB-0000075
6011 NW 1st Place, Gainesville, Florida 32607
Phone: (352) 331-1976 Fax: (352) 331-2476 mail@ce-civil.com

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

REVISIONS

DATE

SEAL
ROBERT P. CAUSSEAUX
39421

APPROVED BY:
DATE: 2/1/02

PLOT SCALE: 1:1
PLOT DATE: 01/30/02 09:48

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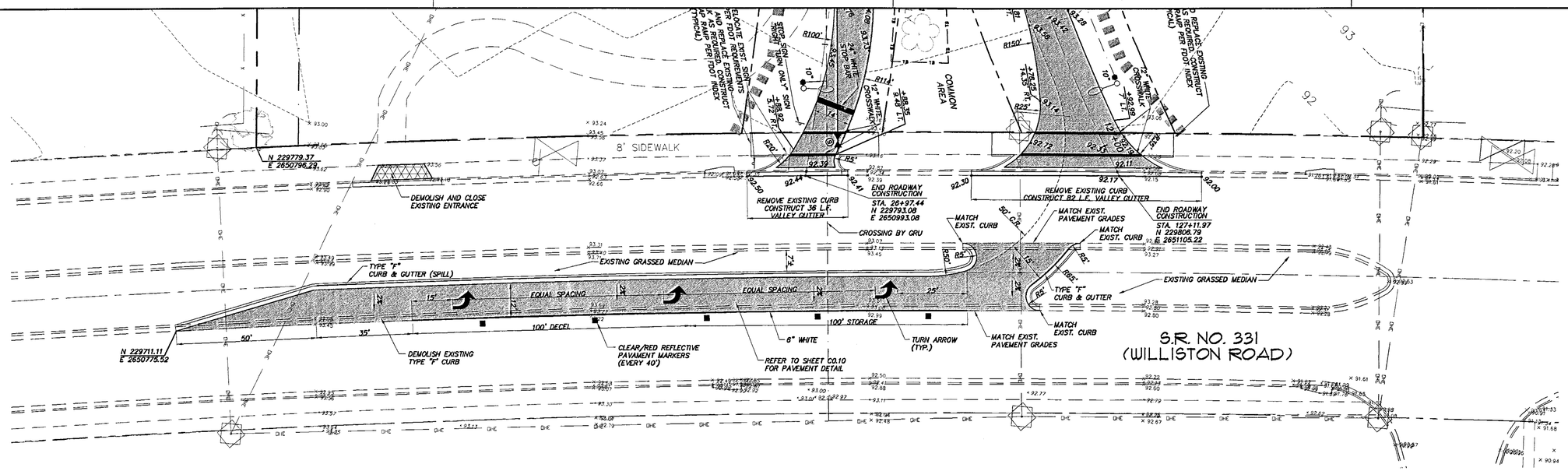
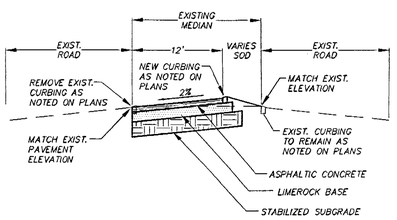


NORTH

GRAPHIC SCALE

20 0 10 20 40

(IN FEET)
1 inch = 20 ft.



NOTE: SEE ASPHALT PAVEMENT DETAIL FOR SECTION THICKNESS AND CONSTRUCTION

S.R. NO. 331
TYPICAL ROADWAY SECTION

NTS

GENERAL NOTES

1. DIMENSIONS ARE FROM EDGE OF PAVEMENT TO EDGE OF PAVEMENT.
2. ALL NEW TRAFFIC CONTROL DEVICES (SIGNS AND PAVEMENT MARKINGS) SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND FDOT STANDARDS.
3. ALL WORK IN THE RIGHT-OF-WAY SHALL BE PER FDOT INDEX NO. 613.
4. ALL DISTURBED AREAS IN THE RIGHT-OF-WAY SHALL BE SODDED WITH BAHAIA.
5. THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL LOCATION AND VERTICAL LOCATION OF ALL EXISTING UTILITIES WITHIN THE LIMITS OF THE PARCELS SHOWN PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL CALL ALL UTILITY COMPANIES TO HAVE THE LOCATIONS OF ALL UTILITIES FIELD MARKED PRIOR TO COMMENCEMENT OF CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONTINUING CONSTRUCTION.
6. ALL FINAL STRIPING SHALL BE THERMOPLASTIC WITH REFLECTIVE PAVEMENT MARKINGS.
7. ALL SUB-SOIL EXCAVATION SHALL BE A MINIMUM OF 24" BELOW THE BOTTOM OF BASE COURSE.
8. SEE THIS SHEET AND SHEET C0.10 FOR TYPICAL CONSTRUCTION SECTIONS.
9. ALL STRIPING PLACEMENT SHALL COMPLY WITH FLORIDA DEPARTMENT OF TRANSPORTATION STANDARDS.
10. COORDINATES SHOWN ARE STATE PLANE COORDINATES. REFER TO PLAT FOR ADDITIONAL CONTROL.

CLIENT: GREENTRUST GAINESVILLE, FLORIDA

JOB NO.: 01-268 SHEET NO.: C4.20

PROJECT: MASTER CLUSTER DEVELOPMENT PHASE I

SHEET TITLE: S.R. NO. 331 AND ENTRANCE IMPROVEMENT PLAN

DESIGNED BY: R.J.WALPOLE, P.E.
DRAWN BY: C.C. VOSSLER
CHECKED BY: R.F.CAUSSEUAX, P.E.

COMPUTER FILE: 01-268PP.DWG
DATE: DECEMBER 14, 2001

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REVISIONS

DATE

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APPROVED BY:
DATE: 12/12/01

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PLOT DATE: 02/01/02 11:09

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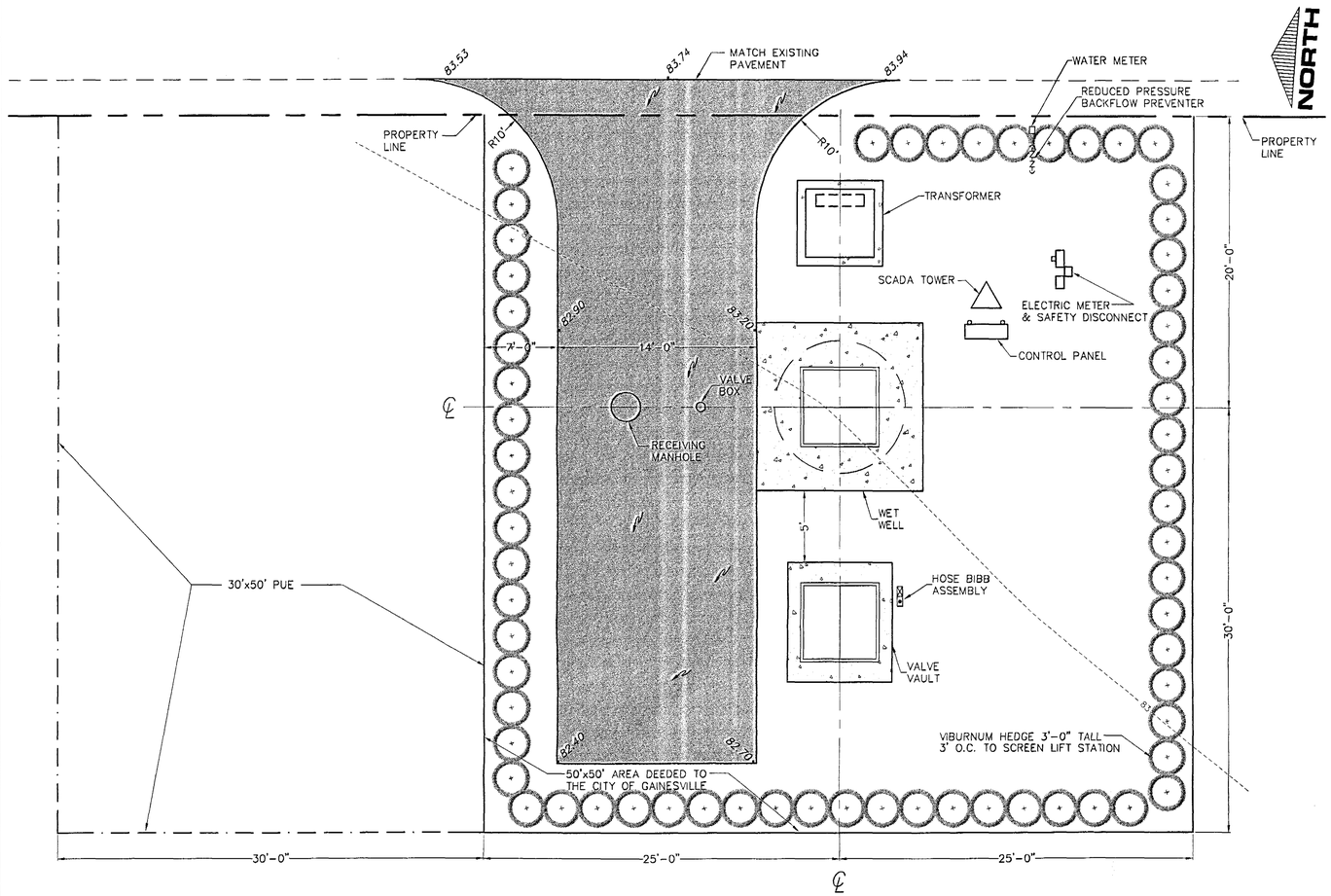
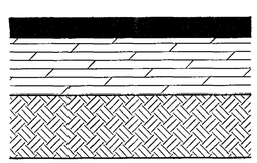


LIFT STATION SITE/CIVIL PLAN

N.T.S.

LEGEND

- CHAIN LINK FENCE ON PROPERTY LINE (SEE DETAIL THIS SHEET)
- CONCRETE PAD OR COVER
- ASPHALT PAVEMENT



1-1/4" TYPE S-III ASPHALTIC CONCRETE

8" LIMEROCK BASE, PRIMED
COMPACTION 98% MODIFIED PROCTOR

12" STABILIZED SUBGRADE LBR 40
COMPACTION 98% MODIFIED PROCTOR

ASPHALT PAVEMENT DETAIL

N.T.S.

SITE / CIVIL NOTES

1. CONTRACTOR SHALL GRADE SITE TO PROVIDE POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES.

2. CONSTRUCT ASPHALT PAVING IN ACCORDANCE WITH THESE DRAWINGS AND DETAILS.

3. ASPHALT PAVEMENT SHALL BE PLACED TO ENSURE POSITIVE DRAINAGE AWAY FROM STRUCTURES AND SHALL NOT CONTAIN AREAS THAT ALLOW WATER TO ACCUMULATE.

4. SOLID SOD SITE WITH ARGENTINE BAHIA. SOD SHALL, AT TIME OF PLACING, BE FRESH CUT, LIVE, MOIST, AND HAVE ADEQUATE ROOT SYSTEM AT LEAST 1" THICK.

5. SOD SHALL BE KEPT IN A MOIST CONDITION FOR AT LEAST 2 WEEKS AFTER PLACING. CONTRACTOR SHALL WATER SOD NO LESS THAN EVERY OTHER DAY AT A RATE OF 3/4" TO 1" PER APPLICATION.

GENERAL NOTES

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THESE DRAWINGS AND WITH THE LATEST EDITION OF THE GAINESVILLE REGIONAL UTILITIES (GRU) WATER AND WASTEWATER STANDARDS AND APPROVED MATERIALS MANUAL.

2. ALL WORK SHALL BE INSPECTED BY A GRU UTILITY INSPECTOR. CONTRACTOR SHALL PROVIDE 48 HOURS NOTICE (TELEPHONE (352) 334-3400, EXT. 1614) PRIOR TO BEGINNING CONSTRUCTION.

3. CONTRACTOR SHALL COORDINATE STARTUP OF THE LIFT STATION PUMPS AND CONTROL PANEL WITH PUMP SUPPLIER AND GRU WATER AND WASTEWATER ENGINEERING.

4. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS OF THE PRECAST STRUCTURES, PUMPS, AND CONTROL PANEL FOR REVIEW AND ACCEPTANCE PRIOR TO BEGINNING CONSTRUCTION.

5. CONTRACTOR SHALL PROTECT OFF-SITE AREAS FROM EROSION AND SEDIMENT DISCHARGES AT ALL TIMES DURING CONSTRUCTION AND UNTIL PERMANENT VEGETATION IS ESTABLISHED AND ACCEPTED.

6. CONTRACTOR SHALL LOCATE AND PROTECT, OR RELOCATE AS APPROVED BY GRU, ALL EXISTING UTILITIES AND FACILITIES. UTILITY SERVICE SHALL NOT BE DISRUPTED UNLESS APPROVED BY AND COORDINATED WITH GRU.

7. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH ALL FEDERAL, STATE, AND LOCAL SAFETY REQUIREMENTS AND REGULATIONS. THE PROJECT MAY REQUIRE SHEETING, SHORING, BRACING AND/OR SLOPING FOR EXCAVATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING ACTUAL REQUIREMENTS AND SHALL SUBMIT SIGNED AND SEALED ENGINEERING DESIGN PLANS AND SPECIFICATIONS, PREPARED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA.

8. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL AS APPROPRIATE FOR PREVAILING WORK CONDITIONS IN ACCORDANCE WITH THE LATEST REVISION OF THE FLORIDA DEPARTMENT OF TRANSPORTATION'S ROADWAY AND TRAFFIC DESIGN STANDARDS.

9. CONTRACTOR SHALL PERMIT GRU PERSONNEL ACCESS TO THE SITE AT ALL TIMES DURING CONSTRUCTION.

10. THESE DRAWINGS ARE INTENDED TO COMPLIMENT WRITTEN SPECIFICATIONS IN ORDER TO PROVIDE COMPLETE INFORMATION NECESSARY TO CONSTRUCT THE LIFT STATION IN ACCORDANCE WITH GRU STANDARDS FOR WATER AND WASTEWATER SYSTEMS. THE CONTRACTOR SHALL UTILIZE GRU'S WATER AND WASTEWATER SYSTEM MATERIALS AND CONSTRUCTION STANDARDS MANUAL (LATEST REVISION) TO CONSTRUCT THE FACILITIES.

CLIENT: GREEN TRUST GAINESVILLE, FLORIDA
JOB NO.: 01-268
SHEET NO.: C5.00
PROJECT: MADERA CLUSTER DEVELOPMENT PHASE I
SHEET TITLE: LIFT STATION SITE PLAN
DESIGNED BY: R.J.WALPOLE, P.E.
DRAWN BY: C.C.F.SOSADA
CHECKED BY: R.P.CAUSSEUAX, P.E.
COMPUTER FILE: 01-268-LS1.DWG
DATE: DECEMBER 14, 2001

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Phone: (352) 331-1976 Fax: (352) 331-2476 mailbox@ce-civil.com

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APPROVED BY: [signature]
DATE: 01/31/02
PMT ID-C.D.: 01-268-LS1
01/31/02 09:58

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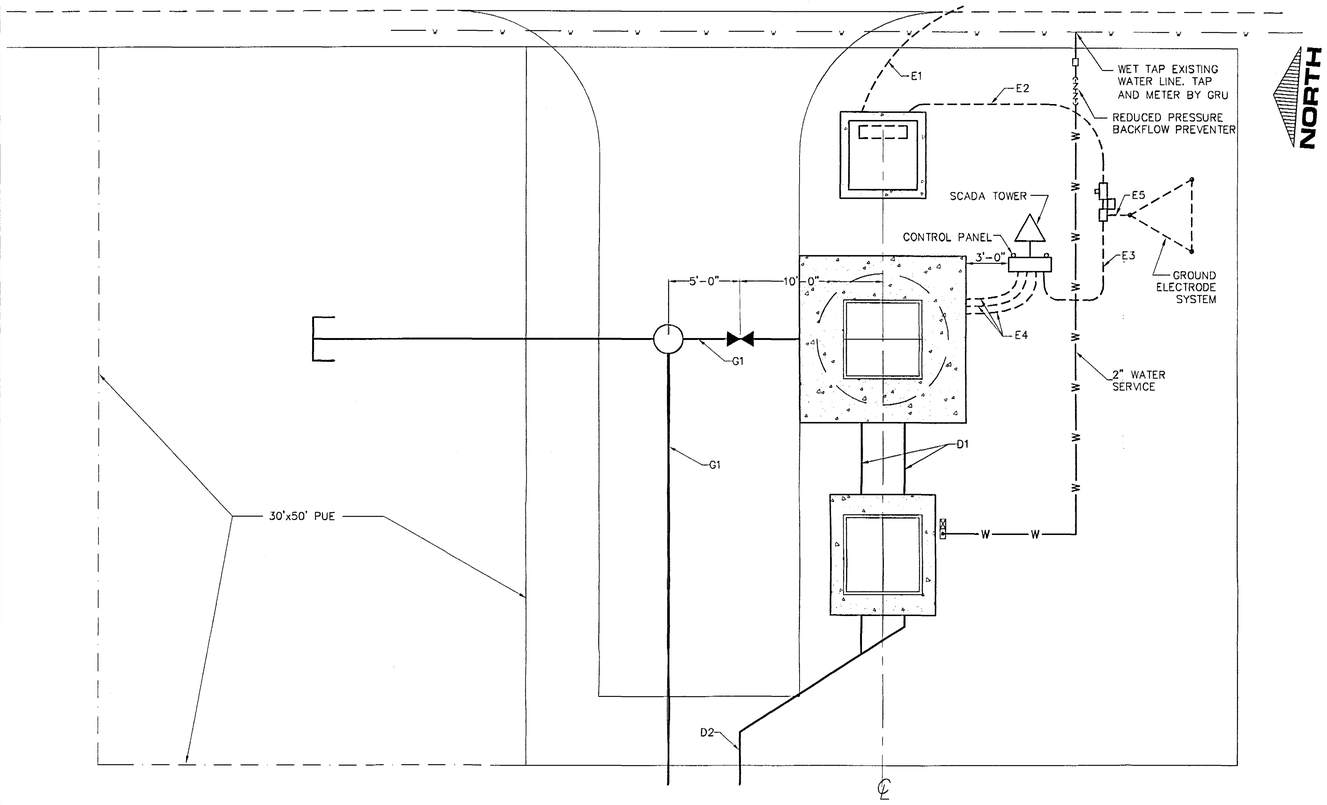


MECHANICAL/ELECTRICAL PLAN

N.T.S.

MECHANICAL SUMMARY DATA

PUMP MODEL NUMBER / HP RATING	CP 3102
PUMP IMPELLER NUMBER	434
PUMP DISCHARGE PIPE SIZE	4"
PUMP GUIDE RAIL SIZE	2"
WET WELL LINER MATERIAL	BITUMINOUS
WET WELL HATCH DOOR STYLE	SINGLE
BYPASS VALVE / CONNECTOR SIZE	4"

ELECTRICAL SUMMARY DATA

SERVICE ENTRANCE CURRENT RATING	100 AMP
SAFETY DISCONNECT FUSE RATING	100 AMP, TIME DELAY
TRANSFORMER SIZE	75 KVA
TRANSFORMER PAD SIZE	96"x84"
ELECTRIC METER TYPE	PLUG IN
ELECTRIC METER SIZE	600 VOLT, 3 PHASE, 200 AMP
SECONDARY METER SIZE	208 VOLT, 3 PHASE
CONTROL PANEL TYPE	POST MOUNT
CONTROL PANEL SIZE	36"x36"x10"

PIPE SCHEDULE

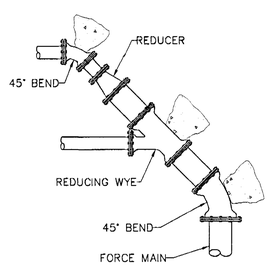
G1 = 8" DIP
D1 = 4" DUCTILE IRON
D2 = 4" PVC

ELECTRICAL SCHEDULE

E1 = 2 [4" C, EMPTY]
E2 = [2" C, 3#3, 1#6N, 1#8G]
E3 = [2" C, 3#3, 1#6N, 1#8G]
E4 = 2 [2" C, PUMP CONDUCTOR]
[2" C, CONTROL CABLES]
E5 = [1#6G]

LEGEND

- CHAIN LINK FENCE ON PROPERTY LINE
- CONCRETE PAD OR COVER
- W — UNDERGROUND WATER SERVICE
- UNDERGROUND ELECTRIC LINE
- UNDERGROUND SEWER LINE
- GATE VALVE AND BOX



DISCHARGE PIPING CONNECTION DETAIL

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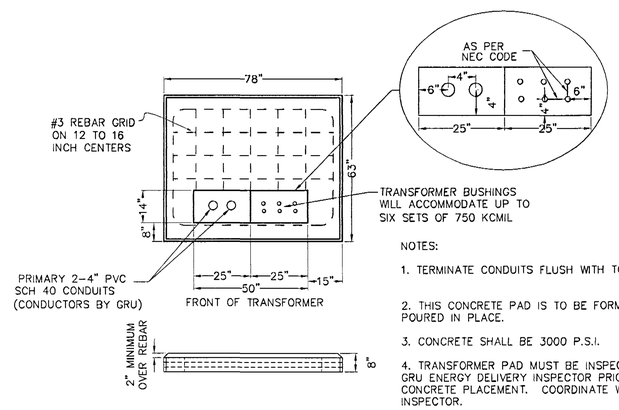
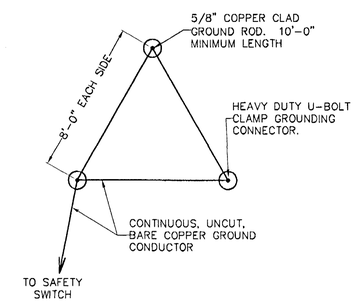


NOTES:

1. TERMINATE CONDUITS FLUSH WITH TOP OF PAD
2. THIS CONCRETE PAD IS TO BE FORMED AND POURED IN PLACE.
3. CONCRETE SHALL BE 3000 P.S.I.
4. TRANSFORMER PAD MUST BE INSPECTED BY GRU ENERGY DELIVERY INSPECTOR PRIOR TO CONCRETE PLACEMENT. COORDINATE WITH UTILITY INSPECTOR.

TRANSFORMER PAD DETAIL

N.T.S.



ELECTRICIAN SHALL TEST GROUND ELECTRODE SYSTEM FOR RESISTANCE. THE GROUND ELECTRODE SYSTEM RESISTANCE TO GROUND SHALL BE NO GREATER THAN 5 OHMS.

GROUND ELECTRODE SYSTEM DETAIL

N.T.S.

CLIENT: GREENTRUST GAINESVILLE, FLORIDA
JOB NO.: 01-268
SHEET NO.: C5.10
PROJECT: HADERA CLUSTER DEVELOPMENT PHASE 1
SHEET TITLE: LIFT STATION MECHANICAL/ELECTRICAL PLAN
DESIGNED BY: R.J.WALPOLE, P.E.
DRAWN BY: C.C. POSADA
CHECKED BY: R.F.CAUSSEAUX, P.E.
COMPUTER FILE: 01-268-LS2.DWG
DATE: DECEMBER 14, 2001

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REVISIONS | DATE

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APPROVED BY: | DATE: 12/11/02

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MECHANICAL MATERIALS SCHEDULE

MARK	ITEM	TYPE	QTY.	UNIT
1	SUBMERSIBLE SEWAGE PUMP		2	EA
2	PUMP BASE / DISCHARGE ELBOW		2	EA
3	ANCHOR BOLT		8	EA
4	UPPER GUIDE RAIL BRACKET		2	EA
5	INTERMEDIATE GUIDE RAIL BRACKET		2	EA
6	GUIDE RAIL		4	EA
7	PUMP LIFTING CABLE		2	EA
8	CABLE HOLDER		1	EA
9	DISCHARGE PIPE	FL x PE	2	EA
10	BEND	FL x FL	2	EA
11	PIPE SUPPORT		4	EA
12	–		–	–
13	CLEANOUT (FLOOR DRAIN)		1	EA
14	ACCESS FRAME & COVER – WETWELL		AS REQ'D	--
15	INFLUENT PIPE		AS REQ'D	--
16	TEE	MJ x MJ x MJ	1	EA
17	BEND	MJ x MJ	1	EA
18	REACTION BLOCK		2	EA
19	FILLET		1	EA
20	REINFORCING STEEL		AS REQ'D	--
21	WETWELL		1	EA
22	WETWELL LINER		N/A	--
23	JOINT SEALER		AS REQ'D	--
24	PIPE COUPLING		2	EA
25	RESTRAINING GLAND		2	EA

MECHANICAL MATERIALS SCHEDULE

MARK	ITEM	TYPE	QTY.	UNITS
26	FLANGE COUPLING ADAPTER		4	EA
27	DISCHARGE PIPE	FL x PE	4	EA
28	ACCESS FRAME & COVER – VALVE BOX		1	EA
29	VALVE VAULT		1	EA
30	CHECK VALVE	FL x FL	2	EA
31	PLUG VALVE	FL x FL	2	EA
32	TAPPED CAP	FL x FPT	2	EA
33	REDUCING TEE	FL x FL x FL	1	EA
34	HOSE COUPLING W/ QUICK CONNECT	MPT	1	EA
35	DRAIN PIPE		AS REQ'D	--
36	BACKWATER VALVE		1	EA
37	P-TRAP		1	EA
38	BALL VALVE		1	EA
39	WATER PIPE / FITTINGS		AS REQ'D	--
40	HOSE BIBB		1	EA
41	VENT RETURN		AS REQ'D	EA
42	GROUT		AS REQ'D	--
43	PUMP CONDUCTOR		2	EA
44	FLOAT SWITCH		1	EA
45				
46				
47				
48				
49				
50				

DIMENSION SCHEDULE

VARIABLE DIMENSIONS	DIMENSION (FT.)	DESCRIPTION
AA	6.0	WETWELL DIAMETER
BB	4.0	WETWELL HATCH OPENING LENGTH
CC	2.5	WETWELL HATCH OPENING WIDTH
DD	1.5	WETWELL CL TO PUMP CL
EE	0.80	WETWELL CL TO HATCH OPENING
FF	0.167	PUMP BENCH HEIGHT
GG	0.9167	PUMP MINIMUM WATER DEPTH
HH	7.0	VALVE BOX LENGTH

ELEVATION SCHEDULE

VARIABLE ELEVATIONS	ELEVATIONS (FT.)	DESCRIPTION
A	83.80	WETWELL COVER & VALVE VAULT TOP
B	74.08	UPPER INLET PIPE INVERT
C	70.00	LOWER INLET PIPE INVERT
D	69.75	FLOOR OF WETWELL (W/O BENCH)
E	74.00	HIGH WATER ALARM
F	73.00	LAG PUMP ON
G	72.00	LEAD PUMP ON
H	71.00	PUMP OFF

STRUCTURAL/MECHANICAL NOTES

1. STRUCTURAL DESIGN FOR ALL PRECAST CONCRETE STRUCTURES SHALL BE THE RESPONSIBILITY OF THE PRECAST MANUFACTURER AND SHALL CONFORM TO ASTM STANDARDS FOR PRECAST STRUCTURES.

2. COMPACT SUBGRADE BENEATH CONCRETE STRUCTURES TO 98% MODIFIED PROCTOR PRIOR TO INSTALLATION.

3. STABILIZE SUB BASE BENEATH CONCRETE STRUCTURES WITH 12" (MINIMUM) OF GRAVEL IF CONDITIONS ARE WET OR SUB BASE SOILS ARE LOOSE.

4. BACKFILL AROUND STRUCTURES IN 12" LIFTS COMPACTING TO 95% MODIFIED PROCTOR.

5. BACKFILL UPPER 3 FEET BENEATH STRUCTURES AND ACCESS DRIVEWAY TO 98% MODIFIED PROCTOR.

6. SEAL ALL PENETRATIONS IN CONCRETE STRUCTURES WITH TYPE II LEAN CEMENT GROUT.

7. INSTALL PUMP BASES, GUIDE RAILS, AND DISCHARGE PIPING PLUMB, LEVEL, AND SQUARE.

8. INSTALL BENCH FOR PUMP BASE PER APPROVED MANUFACTURER'S SHOP DRAWINGS.

9. UNLESS OTHERWISE SPECIFIED, ALL ACCESSORIES AND FASTENERS SHALL BE 316 STAINLESS STEEL FASTENERS. INSTALL ANTI-SEIZING COMPOUND ON ALL STAINLESS STEEL FASTENERS.

10. INSTALL FILLET AFTER THE INSTALLATION OF ALL PUMP EQUIPMENT. FILLET SHALL BE CONSTRUCTED WITH A SLOPE OF 2 : 1 (VERTICAL : HORIZONTAL).

11. COAT ALL METALS THAT ARE NOT ALUMINUM OR STAINLESS STEEL AND ARE LOCATED IN THE WETWELL OR VALVE VAULT WITH 10 MILS (DRY FILM THICKNESS) OF BLACK, HIGH-SOLIDS EPOXY. (TNEMEC SERIES 69 HI-BUILD EPOXYLINE II). COATING SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION AND SHALL NOT BE IMMERSED UNTIL FULL CURE IS ACHIEVED.

12. COAT ALL ALUMINUM SURFACES IN CONTACT WITH CONCRETE WITH BITUMINOUS COATING PRIOR TO INSTALLATION.

13. INSTALL 2" PVC WATER SERVICE PIPING. GRU WILL FURNISH AND INSTALL WATER METER.

14. PUMP BASES, PUMP ANCHOR BOLTS, UPPER AND INTERMEDIATE GUIDE RAIL BRACKETS, GUIDE RAILS, CABLE HANGER, PUMP LIFTING CABLES, CONTROL PANEL & FLOAT SWITCHES SHALL BE PROVIDED BY PUMP SUPPLIER.

15. UPPER & INTERMEDIATE GUIDE RAIL BRACKETS, GUIDE RAILS, & CABLE HANGER SHALL BE 304 STAINLESS STEEL.

16. INSTALL INTERMEDIATE GUIDE RAIL BRACKETS WHEN GUIDE RAILS EXCEED 20'-0" IN LENGTH.

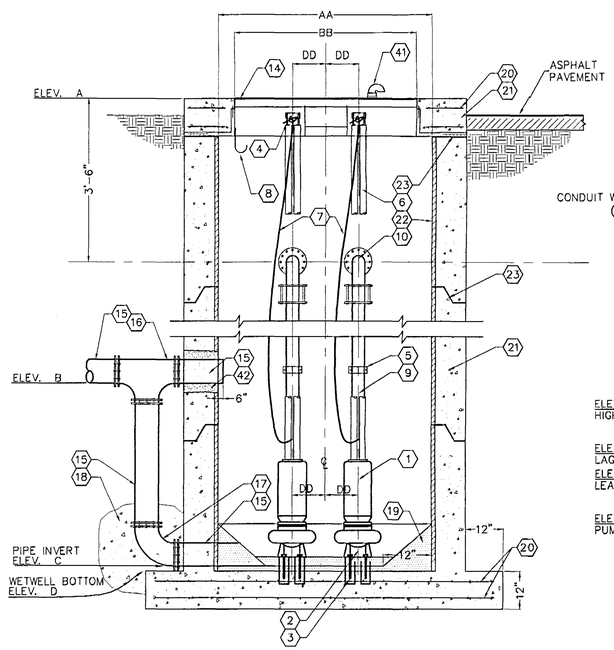
17. PROVIDE CHECK VALVES WITH EXTERNAL WEIGHT & ARM.

18. PROVIDE PLUG VALVES WITH 2" SQUARE NUT OPERATOR.

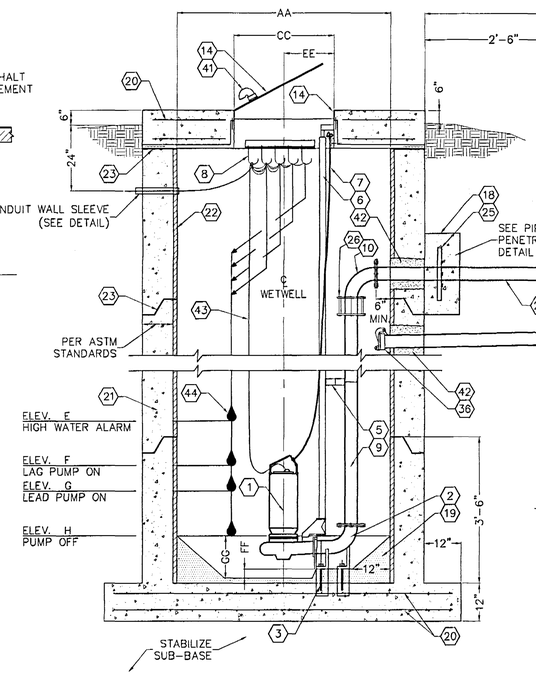
19. ANCHOR BOLTS FOR PUMP BASES SHALL BE 316 STAINLESS STEEL, EPOXY TYPE, 3/4" MINIMUM, LENGTH AS REQUIRED. OTHER ANCHOR BOLTS SHALL BE 316 STAINLESS STEEL, MECHANICAL WEDGE TYPE, 3/8" MINIMUM DIAMETER, LENGTH AS REQUIRED.

20. APPLY COATING TO STEEL PIPE SUPPORTS BEFORE INSTALLING.

21. ALL WORK MUST COMPLY WITH THESE DRAWINGS AND WITH THE WRITTEN SPECIFICATIONS CONTAINED IN GRU'S WATER AND WASTEWATER SYSTEM MATERIAL AND CONSTRUCTION STANDARDS MANUAL.



CROSS SECTION WETWELL
N.T.S.



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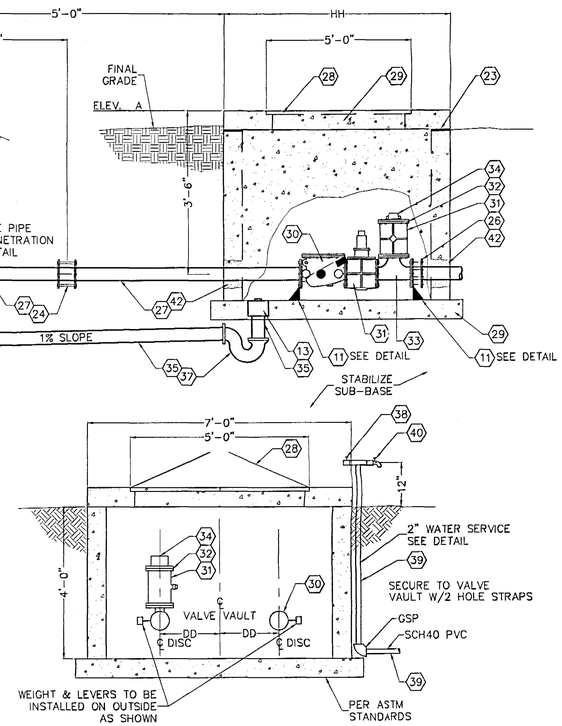

CROSS SECTION VALVE VAULT
N.T.S.

CLIENT: GREENTRUST GAINESVILLE, FLORIDA
JOB NO.: 01-268
SHEET NO.: C5.20
PROJECT: MAGNOLIA CLUSTER DEVELOPMENT PHASE I
SHEET TITLE: LIFT STATION MECHANICAL SECTION AND DETAILS
DESIGNED BY: R.J.WALPOLE, P.E.
DRAWN BY: C.C. POSADA
CHECKED BY: R.P.CAUSSEAUX, P.E.
COMPUTER FILE: 01-268-LS3.DWG
DATE: DECEMBER 14, 2001
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Phone: (352) 331-1976, Fax: (352) 331-2476, mail@ce-civil.com
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DATE: 12/11/02
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ELECTRICAL MATERIALS SCHEDULE

MARK	ITEM	QTY.	UNIT
51	TRANSFORMER	1	EA
52	TRANSFORMER PAD	1	EA
53	ELECTRIC METER	1	EA
54	SAFETY SWITCH	1	EA
55	CONCRETE SUPPORT POST	1	EA
56	CONDUIT SUPPORT STRUT	AS REQ'D	--
57	THREADED HUB	AS REQ'D	--
58	CONTROL PANEL SUPPORT RACK	1	EA
59	CONTROL PANEL	1	EA
60	CONDUIT SEALING FITTING	3	EA
61	SCADA TOWER	1	EA
62	CONDUIT	AS REQ'D	--
63	CONCRETE	AS REQ'D	--
64	GRAVEL - #57 STONE	--	--
65	CONTROL PANEL SOLAR SHIELD	--	--
66	CONCRETE PAD	--	--
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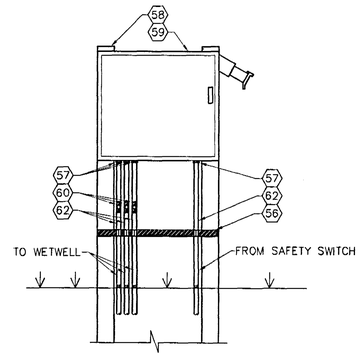
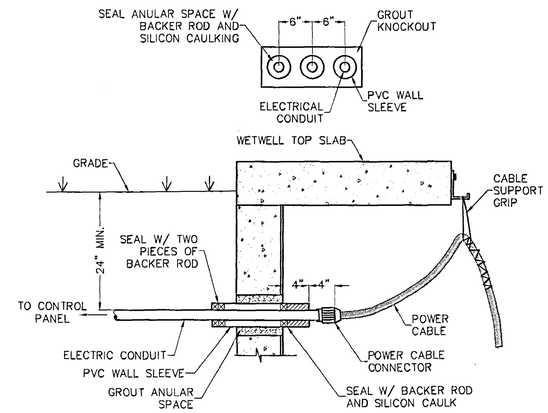


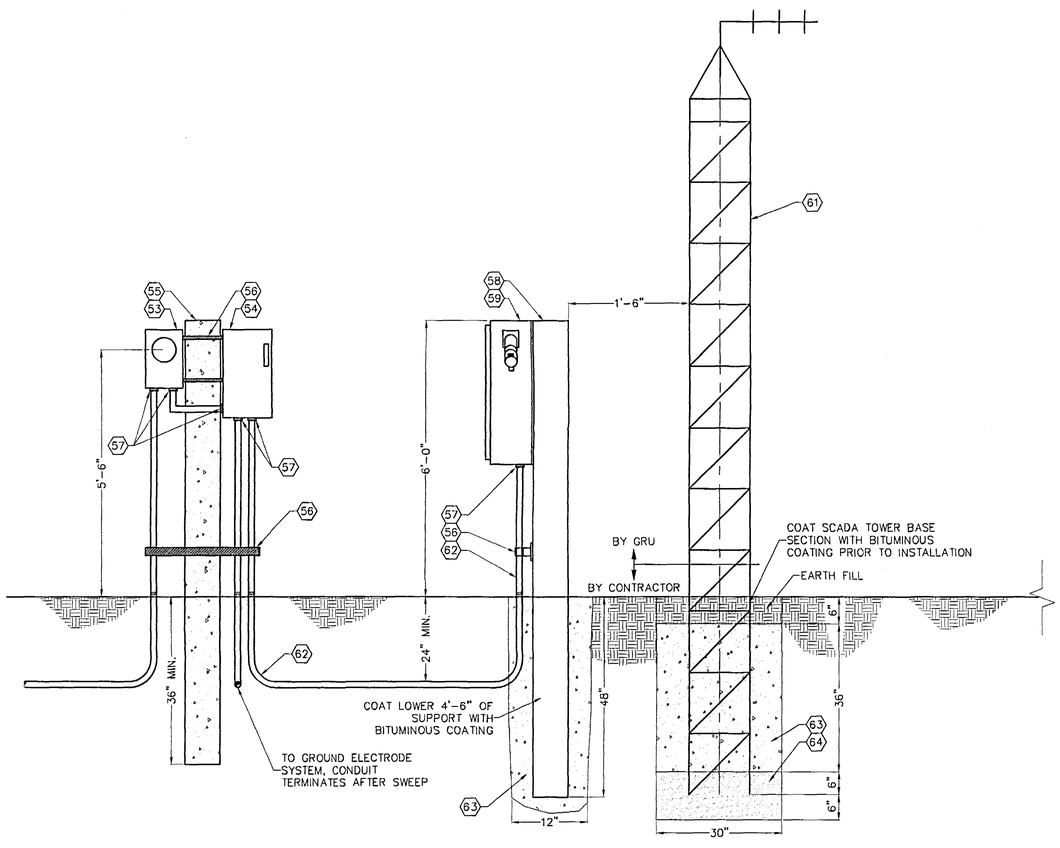
CROSS SECTION POLE MOUNTED CONTROL PANEL

N.T.S.



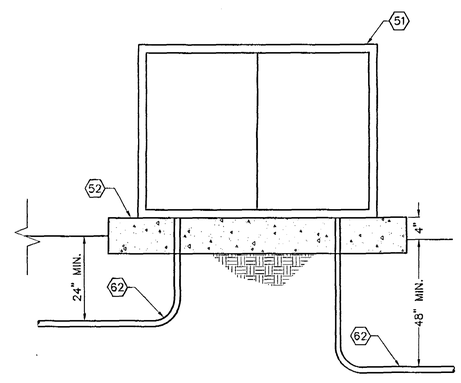
ELECTRICAL WALL PENETRATION DETAIL

N.T.S.



ELECTRICAL SECTION POLE MOUNTED PANEL

N.T.S.



ELECTRICAL NOTES

1. ALL ELECTRICAL WORK SHALL BE PERFORMED BY AN ELECTRICAL CONTRACTOR LICENSED IN THE STATE.

2. CONTRACTOR SHALL OBTAIN AN ELECTRICAL BUILDING PERMIT FROM THE APPROPRIATE AUTHORITY - CITY OF GAINESVILLE OR ALACHUA COUNTY. IF THE SITE IS LOCATED IN THE COUNTY, THE CONTRACTOR MUST OBTAIN PERMITS FROM BOTH AGENCIES. THE CITY OF GAINESVILLE ELECTRICAL INSPECTOR WILL PERFORM ALL INSPECTIONS.

3. OBTAIN METER CAN FROM GRU ENERGY DELIVERY. COORDINATE WITH UTILITY INSPECTOR.

4. PRIMARY CONDUIT SHALL BE SCHEDULED 40 PVC CONDUIT WITH LONG RADIUS, RIGID, GALVANIZED STEEL SWEEPS. COAT EXTERIOR OF SWEEPS WITH BITUMINOUS COATING PRIOR TO INSTALLATION.

5. PRIMARY CONDUCTOR AND TRANSFORMER WILL BE FURNISHED AND INSTALLED BY GRU ENERGY DELIVERY.

6. BELOW GRADE SECONDARY CONDUIT AND FITTINGS SHALL BE SCHEDULE 80 PVC CONDUIT.

7. ABOVE GRADE SECONDARY CONDUIT AND FITTINGS SHALL BE RIGID, ALUMINUM CONDUIT.

8. CONDUCTOR SHALL BE COPPER, THWN.

9. CONDUIT SUPPORT SHALL BE 12 GAUGE, 1-5/8" X 1-5/8" ALUMINUM STRUT WITH STAINLESS STEEL HARDWARE.

10. USE ANTI-SEIZING LUBRICANT ON ALL ALUMINUM THREADED FITTINGS.

11. INSTALL MEYERS TYPE THREADED HUBS ON ALL CONDUIT PENETRATIONS INTO ELECTRICAL CABINETS.

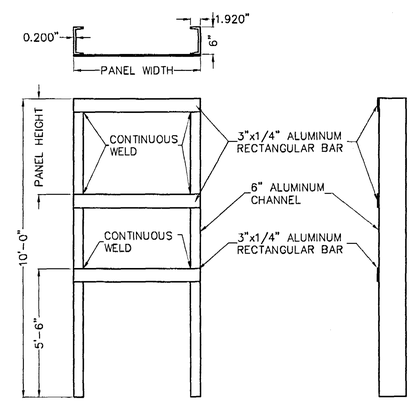
12. OBTAIN BASE SECTION FOR SCADA TOWER FROM GRU. COORDINATE WITH UTILITY INSPECTOR.

13. COAT ALL ALUMINUM SURFACES IN CONTACT WITH CONCRETE WITH BITUMINOUS COATING PRIOR TO INSTALLATION.

14. FASTENERS, ANCHOR BOLTS, AND OTHER HARDWARE SHALL BE STAINLESS STEEL. INSTALL ANTI-SEIZING COMPOUND ON ALL STAINLESS STEEL FASTENERS.

15. TRANSFORMER PAD MUST BE INSPECTED BY GRU ENERGY DELIVERY INSPECTOR PRIOR TO CONCRETE PLACEMENT. COORDINATE WITH UTILITY INSPECTOR.

16. ALL WORK MUST COMPLY WITH THESE DRAWINGS AND WITH THE WRITTEN SPECIFICATIONS CONTAINED IN GRU'S WATER AND WASTEWATER SYSTEM MATERIAL AND CONSTRUCTION STANDARDS MANUAL.



PANEL SUPPORT RACK DETAIL

N.T.S.

C&E Causseaux & Ellington, Inc.
Engineering • Surveying • Planning
6011 NW 1st Place, Gainesville, Florida 32607
Phone: (352) 331-1976 Fax: (352) 331-2476 mail@ce-cei.com

CLIENT:	GREENTRUST GAINESVILLE, FLORIDA
JOB NO.:	01-268
SHEET NO.:	C5.30
PROJECT:	LAUDERA CLUSTER DEVELOPMENT PHASE I
SHEET TITLE:	LIFT STATION ELECTRICAL SECTION AND DETAILS
DESIGNED BY:	R.J.WALPOLE, P.E.
DRAWN BY:	C.C. POSADA
CHECKED BY:	R.P.CAUSSEUAX, P.E.
COMPUTER FILE:	01-268-LS4.DWG
DATE:	DECEMBER 14, 2001
VERIFY SCALE	BAR IS ONE INCH ON ORIGINAL DRAWING 1" 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALE ACCORDINGLY
REVISIONS	
DATE	
APPROVED BY:	
DATE:	12/11/02
PLOT ID: C.C.P.	01-268-LS4
PLOT DATE:	10/30/02 10:03

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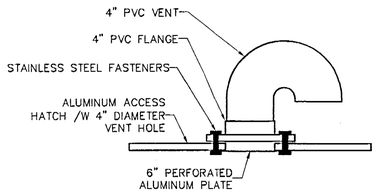
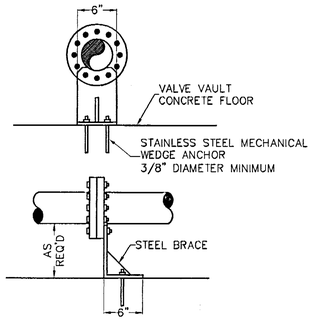


WETWELL VENT DETAIL

N.T.S.

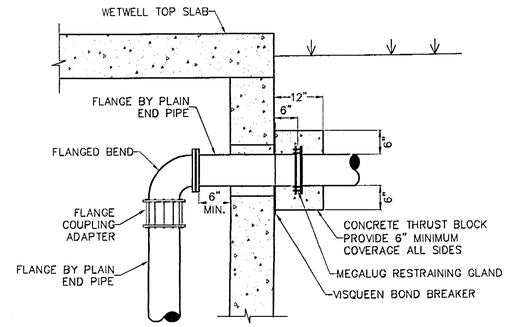


NOTES:
1. CONSTRUCT PIPE SUPPORT WITH 1/4" STEEL PLATE.

2. COAT SUPPORT WITH 2 COATS HIGH-SOLIDS EPOXY (2 PART) PRIOR TO INSTALLATION.

PIPE SUPPORT DETAIL

N.T.S.



PIPE PENETRATION DETAIL

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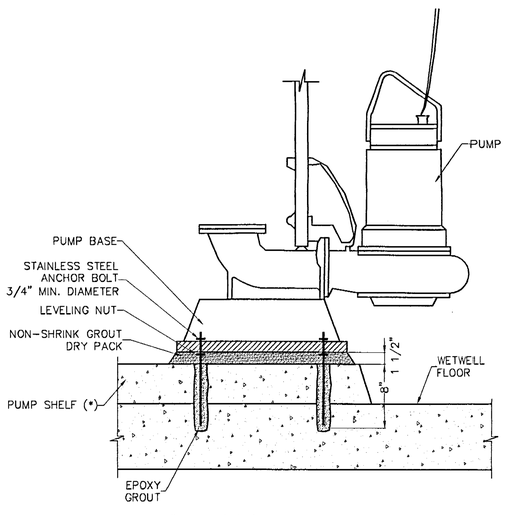

* - PUMP SHELF IF REQUIRED BY MANUFACTURER.

PUMP BASE DETAIL

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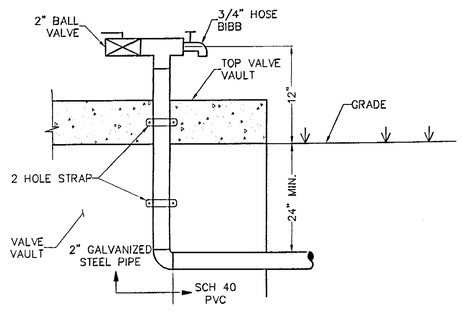

HOSE BIBB ASSEMBLY DETAIL

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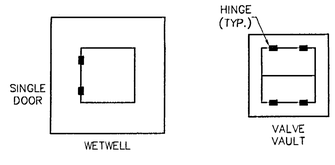

WETWELL HATCH DOOR ORIENTATION DETAIL

N.T.S.

CLIENT: GREENTRUST GAINESVILLE, FLORIDA

JOB NO.: 01-268 SHEET NO.: C5.40

PROJECT: MADERA CLUSTER DEVELOPMENT PHASE 1

SHEET TITLE: LIFT STATION DETAILS

DESIGNED BY: R.J.WALPOLE, P.E.
DRAWN BY: C.S. PRADA
CHECKED BY: R.P.CAUSSEUAX, P.E.

COMPUTER FILE: 01-268-LS5.DWG
DATE: DECEMBER 14, 2001

CE Causseaux & Ellington, Inc.
Engineering • Surveying • Planning
6011 NW 1st Place, Gainesville, Florida 32607
Phone: (352) 331-1976 Fax: (352) 331-2476 mailbox@ce-civil.com

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH, ON THIS SHEET, ADJUST SCALES ACCORDINGLY

REVISIONS

DATE

SEAL

APPROVED BY:
DATE:

PLOT ID: 01-268-LS5
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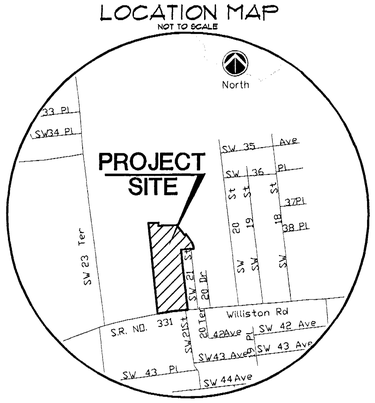
PLAT BOOK __ ,PAGE __
SHEET ONE OF TWO

LOCATION MAP
NOT TO SCALE



MADERA CLUSTER DEVELOPMENT
PHASE I

LYING IN LOT 6 OF THE NAPIER GRANT, TOWNSHIP 10 SOUTH, RANGE 20 EAST, IN THE CITY OF GAINESVILLE, ALACHUA COUNTY, FLORIDA

Causseaux & Ellington, Inc.
Engineering • Surveying • Planning
6011 NW 1st Place, Gainesville, Florida 32607
Phone: (352) 331-1976 Fax: (352) 331-2476

M.A.R. 01-3798plat
01/04/02 17:15

SURVEYOR'S NOTES:

1. BEARINGS HEREON ARE REFERRED TO AN ASSUMED VALUE OF N04°30'00"W FOR THE WEST LINE OF LOT 6 OF THE NAPIER GRANT AS SHOWN HEREON, SAID BEARING IS IDENTICAL WITH THE PLAT OF THE THOMAS NAPIER GRANT RECORDED IN DEED BOOK I, PAGE 591 OF THE PUBLIC RECORDS OF ALACHUA COUNTY, FLORIDA.

2. THE ERROR OF CLOSURE FOR THE BOUNDARY OF THIS PLAT DOES NOT EXCEED 1':10.000'.

3. BUILDING SETBACK REQUIREMENTS (MINIMUM) UNLESS OTHERWISE SHOWN.
PRINCIPAL: FRONT = 15' REAR = 15' SIDE INTERIOR = 5' SIDE STREET = 10'
ACCESSORY: FRONT = 15' REAR = 15' SIDE = 10'

4. BENCHMARKS SHOWN HEREON ARE NGVD 1929, BASED ON UNITED STATES COAST AND GEODETIC SURVEY BENCHMARK, NAMED "BM #B-268", HAVING A PUBLISHED ELEVATION OF 116.939 FEET.

5. THERE IS A TOTAL OF 0.193 ACRES± OF COMMON SPACE & P.U.E.
THERE IS A TOTAL OF 0.814 ACRES± OF COMMON SPACE & DRAINAGE EASEMENT.
THERE IS A TOTAL OF 2.724 ACRES± OF COMMON SPACE.
THERE IS A TOTAL OF 0.071 ACRES± OF EMERGENCY INGRESS/EGRESS ACCESS & P.U.E.

6. THERE SHALL BE NO IMPROVEMENTS CONSTRUCTED IN THE 20 FOOT DRAINAGE EASEMENT ON LOTS 18 AND 19.

7. COORDINATES SHOWN HEREON ARE BASED ON NORTH AMERICAN DATUM 1983 PER STATIONS A-109 & A-110 SHOWN ON THE ALACHUA COUNTY DENSIFICATION SURVEY CONTROL MAPS. THE BEARING STRUCTURE USED FOR THIS PLAT IS ROTATED 01 DEGREES 56 MINUTES AND 59 SECONDS CLOCKWISE FROM THE BEARING STRUCTURE USED ON THE ALACHUA COUNTY DENSIFICATION SURVEY.

NOTE: THIS PROPERTY IS LOCATED IN FEDERAL FLOOD ZONE "C", AREAS OF MINIMAL FLOODING, AS INTERPOLATED FROM F.I.R.M. PANEL NO. 120001 0450 A, EFFECTIVE 9/28/84.

NOTICE:
THIS PLAT, AS RECORDED IN ITS GRAPHIC FORM, IS THE OFFICIAL DEPICTION OF THE SUBDIVIDED LANDS DESCRIBED HEREIN AND WILL IN NO CIRCUMSTANCES BE SUPPLANTED IN AUTHORITY BY ANY OTHER GRAPHIC OR DIGITAL FORM OF THE PLAT. THERE MAY BE ADDITIONAL RESTRICTIONS THAT ARE NOT RECORDED ON THIS PLAT THAT MAY BE FOUND IN THE PUBLIC RECORDS OF THIS COUNTY.

ALL PLATTED UTILITY EASEMENTS SHALL PROVIDE THAT SUCH EASEMENTS SHALL ALSO BE EASEMENTS FOR THE CONSTRUCTION, INSTALLATION, MAINTENANCE, AND OPERATION OF CABLE TELEVISION SERVICES; PROVIDED, HOWEVER, NO SUCH CONSTRUCTION, INSTALLATION, MAINTENANCE, AND OPERATION OF CABLE TELEVISION SERVICES SHALL INTERFERE WITH THE FACILITIES AND SERVICES OF AN ELECTRIC TELEPHONE, GAS, OR OTHER PUBLIC UTILITY. IN THE EVENT A CABLE TELEVISION COMPANY DAMAGES THE FACILITIES OF A PUBLIC UTILITY, IT SHALL BE SOLELY RESPONSIBLE FOR THE DAMAGES.

SURVEYOR'S CERTIFICATION:

I DO HEREBY CERTIFY THAT THIS PLAT ENTITLED "MADERA CLUSTER DEVELOPMENT PHASE I" IS A TRUE AND CORRECT REPRESENTATION OF A SURVEY MADE OF THE DESCRIBED LANDS, UNDER MY RESPONSIBLE DIRECTION AND SUPERVISION AND THAT THIS PLAT AND SURVEY COMPLIES WITH ALL REQUIREMENTS AS SET FORTH IN CHAPTER 177 OF THE FLORIDA STATUTES.

DATE

KEVIN J. FLANAGAN
PROFESSIONAL SURVEYOR AND MAPPER

FLORIDA REGISTRATION NUMBER 3942
CAUSSEAUX & ELLINGTON, INC. LB NUMBER 5075

LEGAL DESCRIPTION: (PREPARED BY SURVEYOR)

A PARCEL OF LAND LYING IN LOT 6 OF THE NAPIER GRANT, TOWNSHIP 10 SOUTH, RANGE 20 EAST, ALACHUA COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGIN AT THE INTERSECTION OF THE WEST LINE OF SAID LOT 6 AND THE NORTH RIGHT-OF-WAY LINE OF STATE ROAD NUMBER 331 (A.K.A. WILLISTON ROAD - A 100' RIGHT-OF-WAY);
THENCE NORTH 04 DEGREES 30 MINUTES 00 SECONDS WEST ALONG THE WEST LINE OF SAID LOT 6, 1253.34 FEET;
THENCE DEPARTING SAID WEST LINE SOUTH 88 DEGREES 10 MINUTES 49 SECONDS EAST, 143.66 FEET;
THENCE SOUTH 01 DEGREES 49 MINUTES 11 SECONDS WEST, 40.00 FEET;
THENCE NORTH 82 DEGREES 42 MINUTES 18 SECONDS EAST, 60.77 FEET;
THENCE SOUTH 88 DEGREES 10 MINUTES 49 SECONDS EAST, 190.58 FEET;
THENCE SOUTH 36 DEGREES 59 MINUTES 41 SECONDS EAST, 23.63 FEET;
THENCE SOUTH 38 DEGREES 38 MINUTES 49 SECONDS EAST, 150.58 FEET TO THE INTERSECTION WITH A NON-TANGENT CURVE TO THE RIGHT, CONCAVE SOUTHEASTERLY, AND HAVING A RADIUS OF 280.00 FEET;
THENCE NORTHEASTERLY ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 04 DEGREES 39 MINUTES 00 SECONDS, 22.72 FEET, SAID ARC BEING SUBTENDED BY A CHORD BEARING AND DISTANCE OF NORTH 61 DEGREES 00 MINUTES 37 SECONDS EAST, 22.72 FEET TO THE END OF SAID CURVE;
THENCE SOUTH 33 DEGREES 50 MINUTES 44 SECONDS EAST, 133.95 FEET TO THE POINT OF CURVATURE OF A CURVE TO THE RIGHT, CONCAVE SOUTHWESTERLY, AND HAVING A RADIUS OF 50.00 FEET;
THENCE SOUTHEASTERLY ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 13 DEGREES 03 MINUTES 52 SECONDS, 11.40 FEET TO THE POINT OF TANGENCY, SAID ARC BEING SUBTENDED BY A CHORD BEARING AND DISTANCE SOUTH 27 DEGREES 18 MINUTES 48 SECONDS EAST, 11.38 FEET;
THENCE SOUTH 20 DEGREES 46 MINUTES 52 SECONDS EAST, 36.29 FEET TO THE POINT OF CURVATURE OF A CURVE TO THE RIGHT, CONCAVE SOUTHWESTERLY, AND HAVING A RADIUS OF 80.00 FEET;
THENCE SOUTHEASTERLY ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 16 DEGREES 16 MINUTES 52 SECONDS, 22.73 FEET TO THE POINT OF TANGENCY, SAID ARC BEING SUBTENDED BY A CHORD BEARING AND DISTANCE OF SOUTH 12 DEGREES 38 MINUTES 26 SECONDS EAST, 22.66 FEET;
THENCE SOUTH 04 DEGREES 30 MINUTES 00 SECONDS EAST, 22.40 FEET TO THE NORTH LINE OF NAPIER ESTATE AS RECORDED IN PLAT BOOK "E" PAGE 16 OF THE PUBLIC RECORDS OF ALACHUA COUNTY, FLORIDA;
THENCE SOUTH 86 DEGREES 51 MINUTES 26 SECONDS WEST, 176.32 FEET ALONG SAID NORTH LINE TO THE NORTHWEST CORNER OF SAID NAPIER ESTATE;
THENCE SOUTH 04 DEGREES 53 MINUTES 02 SECONDS EAST, 834.90 FEET ALONG THE WEST LINE OF SAID NAPIER ESTATE TO THE POINT OF INTERSECTION WITH THE NORTH RIGHT-OF-WAY LINE OF STATE ROAD 331 (100' RIGHT-OF-WAY), SAID POINT BEING ON A NON-TANGENT CURVE TO THE LEFT, CONCAVE SOUTHERLY, AND HAVING A RADIUS OF 5741.63 FEET;
THENCE WESTERLY ALONG SAID NORTH RIGHT-OF-WAY LINE AND ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 04 DEGREES 11 MINUTES AND 03 SECONDS, 419.30 FEET TO THE POINT OF BEGINNING, SAID ARC BEING SUBTENDED BY A CHORD BEARING AND DISTANCE OF SOUTH 84 DEGREES 32 MINUTES 33 SECONDS WEST, 419.21 FEET.

THE ABOVE DESCRIBED PARCEL CONTAINS 12.223 ACRES, MORE OR LESS.

OWNER'S CERTIFICATION AND DEDICATION:

COMES NOW GREENTRUST, LLC., A FLORIDA LIMITED LIABILITY COMPANY, AND DOES HEREBY CERTIFY TO BE THE DEVELOPER AND OWNER OF RECORD OF THE LANDS HEREIN DESCRIBED AND HAVE CAUSED SAID LANDS TO BE SURVEYED AND PLATTED TO BE KNOWN AS "MADERA CLUSTER DEVELOPMENT PHASE 1" AND DOES HEREBY DEDICATE TO THE PUBLIC FOREVER THE STREET RIGHTS-OF-WAY, PUBLIC UTILITIES EASEMENTS AND THE 20 FOOT EMERGENCY INGRESS/EGRESS AND P.U.E. AS SHOWN HEREON. COMMON SPACE IS HEREBY CONVEYED TO THE MADERA HOME OWNERS ASSOCIATION, INC. COMMON SPACE & DRAINAGE EASEMENT AREAS ARE SUBJECT TO THE PUBLIC RIGHT TO DISCHARGE STORMWATER OVER THE ENTIRETY OF SAID COMMON SPACE AND DRAINAGE EASEMENT AREAS.

WITNESS

WENDY BRATZEL, PRINCIPAL
GREENTRUST, LLC. - DECLARANT/DEVELOPER

WITNESS

NOTARY:

STATE OF FLORIDA
COUNTY OF ALACHUA
THE FOREGOING INSTRUMENT WAS ACKNOWLEDGED BEFORE ME THIS ___ DAY OF DECEMBER, BY WENDY BRATZEL (name), PRINCIPAL (title), OF GREENTRUST LLC., A LIMITED LIABILITY COMPANY, ON BEHALF OF THE COMPANY. SHE IS PERSONALLY KNOWN TO ME OR WHO HAS PRODUCED _____ AS IDENTIFICATION AND WHO DID/DID NOT TAKE AN OATH.

(official notary signature and notary seal)

(name of notary, printed or stamped)

CLERK OF THE COURT:

HEREBY RECEIVED AND FILED THIS PLAT FOR RECORD THIS ___DAY OF _____, YEAR OF 200_.

CLERK OF THE CIRCUIT COURT DEPUTY CLERK

MORTGAGEE'S APPROVAL:

GREENTRUST LLC., A FLORDIA LIMITED LIABILITY COMPANY, AS MORTGAGEE, HOLDER OF THAT CERTAIN MORTGAGE RECORDED IN OFFICIAL RECORD BOOK 2401, PAGE 1943 OF THE PUBLIC RECORDS OF ALACHUA COUNTY, FLORIDA, AND DOES HEREBY CONSENT AND AGREE TO THE PLATTING OF THE LANDS ENCOMPASSED IN THIS PLAT AND TO THE DEDICATION SHOWN HEREON.

SIGNATURE: _____ MORTGAGEE: GREENTRUST

DATED: _____ ADDRESS: 13743 LAKESIDE DRIVE CLARKSVILLE, MD

BY: WENDY BRATZEL

WITNESS TITLE: PRINCIPAL

WITNESS

NOTARY:

STATE OF FLORIDA
COUNTY OF ALACHUA
THE FOREGOING INSTRUMENT WAS ACKNOWLEDGED BEFORE ME THIS ___ DAY OF DECEMBER, BY WENDY BRATZEL (name), PRINCIPAL (title), OF GREENTRUST LLC., A LIMITED LIABILITY COMPANY, ON BEHALF OF THE COMPANY. SHE IS PERSONALLY KNOWN TO ME OR WHO HAS PRODUCED _____ AS IDENTIFICATION AND WHO DID/DID NOT TAKE AN OATH.

(official notary signature and notary seal)

(name of notary, printed or stamped)

APPROVAL OF THE CITY OF GAINESVILLE:

WE THE UNDERSIGNED DO HEREBY CERTIFY THIS PLAT CONFORMS TO THE REQUIREMENTS OF THE CITY OF GAINESVILLE, COUNTY OF ALACHUA, STATE OF FLORIDA ORDINANCES AND REGULATIONS AS FOLLOWS:

SURVEYING REQUIREMENTS: TO CHAPTER 177.081 (1), FLORIDA STATUTES — CITY SURVEYOR — DATE

ENGINEERING REQUIREMENTS: — PUBLIC WORKS DIRECTOR — DATE

ACCEPTED BY THE PLAN BOARD: — COMMUNITY DEVELOPMENT DIRECTOR — DATE

LEGALITY OF DEDICATION: — CITY ATTORNEY — DATE

UTILITY REQUIREMENTS: — UTILITY MANAGER — DATE

AS CONFORMS TO THE LAWS OF THE STATE OF FLORIDA AND ADAPTABILITY TO CITY PLANS: — CITY MANAGER — DATE

ACCEPTED BY CITY COMMISSION: — CLERK OF CITY COMMISSION — DATE

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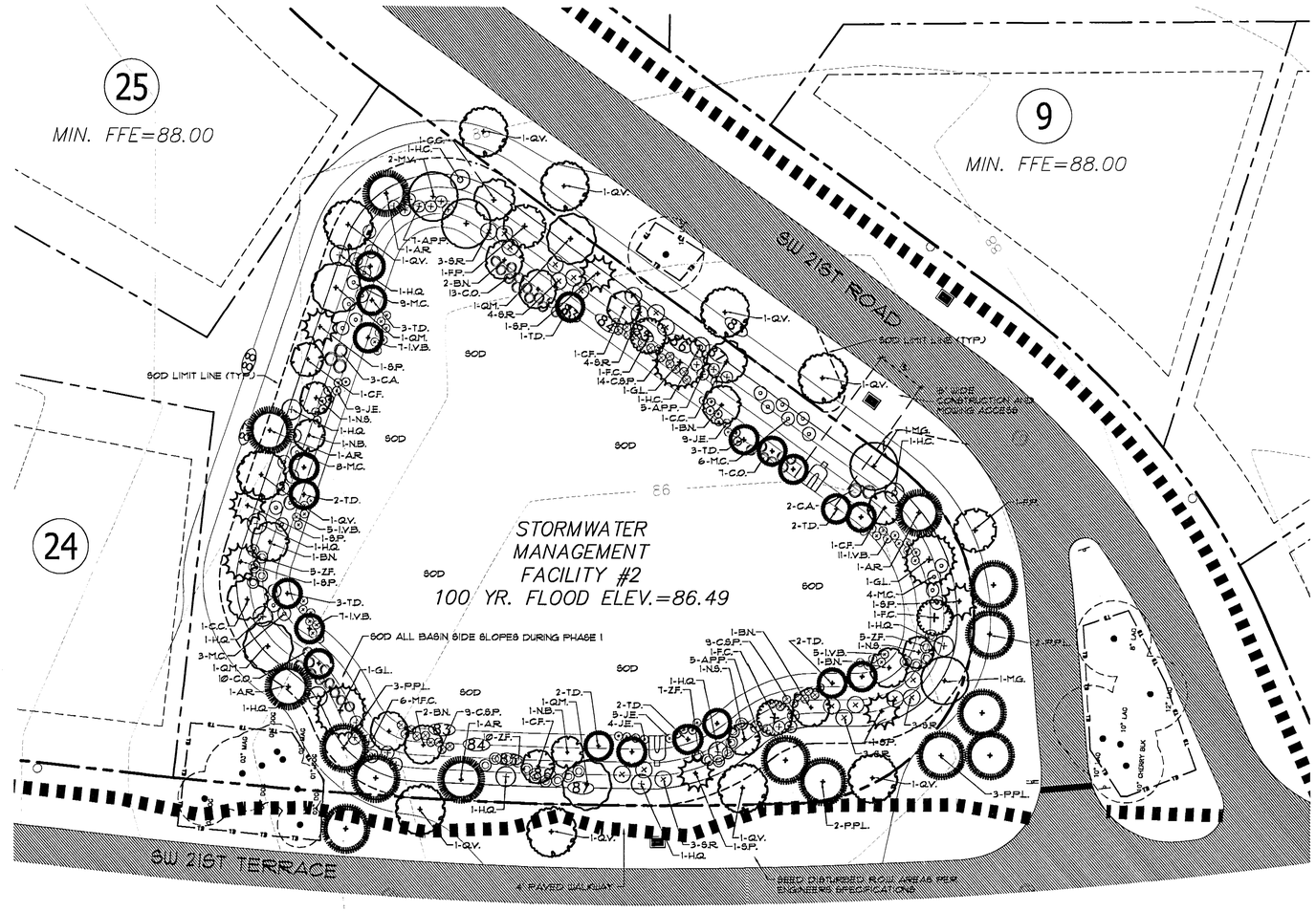
LANDSCAPE PLANTING NOTES:

1. LANDSCAPE CONTRACTOR SHALL CALL THE CITY PARKS DIVISION AT (352) 334-2171 TO SCHEDULE AN ON-SITE MEETING PRIOR TO PURCHASING ANY PLANT MATERIAL.
2. CONTRACTOR SHALL VERIFY THE LOCATION OF UTILITIES AND EXISTING TREES AND VEGETATION PRIOR TO THE COMMENCEMENT OF THE LANDSCAPE WORK.
3. THE CONTRACTOR SHALL PROTECT ALL TREES DESIGNATED TO BE SAVED FROM DAMAGE DURING CONSTRUCTION USING TREE BARRICADES WITH REASONABLE PROTECTION ZONES AS CONSTRUCTION PERMITS. NO STORAGE OF FUEL OR CONSTRUCTION MATERIALS SHALL BE PERMITTED AROUND TREES TO BE SAVED.
4. ALL TREES AND SHRUBS SHALL BE OF THE SIZES AS CALLED FOR IN THE LANDSCAPE MATERIAL SCHEDULE. ANY MATERIALS AS DETERMINED BY THE LANDSCAPE ARCHITECT AS NOT MEETING THE SIZES AND QUALITY AS CALLED FOR SHALL BE REMOVED FROM THE SITE.
5. ALL PLANT MATERIAL SHALL BE FLORIDA #1 OR BETTER AS OUTLINED BY GRADES AND STANDARDS FOR NURSERY PLANTS, DIVISION OF PLANT INDUSTRY, FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES. PLANT MATERIAL SHALL BE CLEARLY IDENTIFIED AS FLORIDA #1 OR BETTER ON EITHER LABELS OR INVOICES.
6. MULCH ALL DISTURBED AREA WITH THREE (3) INCH MINIMUM LAYER OF PINE BARK NUGGETS AS INDICATED.
7. WATER ALL PLANT MATERIAL IMMEDIATELY AFTER PLANTING. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE WATER AND IRRIGATION FUNCTIONING ADEQUATELY FROM THE TIME OF PLANTING UNTIL ONE YEAR AFTER ACCEPTANCE BY THE OWNER, TO INSURE THAT THE PLANT MATERIAL SURVIVES.
8. IF QUANTITIES DIFFER BETWEEN PLAN AND SCHEDULE, THOSE ON THE PLAN SHALL GOVERN. THE CONTRACTOR SHALL VERIFY THAT THE QUANTITIES INDICATED WILL PROVIDE THE COVERAGE AS SPECIFIED AND REPORT ANY DISCREPANCIES TO THE LANDSCAPE ARCHITECT AT THE TIME OF BIDDING.
9. ALL PLANT MATERIAL SHALL BE GUARANTEED ONE YEAR AFTER ACCEPTANCE BY THE OWNER.
10. ALL SHRUB MATERIAL SHALL BE PLANTED IN STAGGERED ROWS, SPACED ON CENTER (O.C.) AS INDICATED.
11. WATERING WILL BE ACCOMPLISHED BY THE USE OF AN UNDERGROUND IRRIGATION SYSTEM.
12. ALL TREES SHALL BE STAKED AS NEEDED AND USING BIODEGRADABLE TWINE. THE LANDSCAPE CONTRACTOR WILL RETURN WITHIN ONE YEAR TO REMOVE STAKES.
13. OSMOCOTE 'FLORIDA BLEND' SLOW RELEASE FERTILIZER IS TO BE INSTALLED IN EACH PLANTING HOLE PRIOR TO INSTALLATION OF ALL SHRUBS AND GROUND COVERS, FOLLOWING THE MANUFACTURERS SPECIFICATIONS.
14. ALL TREES WRAPPED IN BURLAP, PLANTING BAGS, OR ANY OTHER FABRIC WILL HAVE THIS MATERIAL CUT ON FOUR SIDES THE ENTIRE LENGTH OF THE BALL, AND MATERIAL REMOVED FROM THE SITE.
15. REMOVAL OF ALL CONSTRUCTION DEBRIS, LIMEROCK, EXCESS OF BUILDERS SAND, CONCRETE AND MORTAR DEBRIS, EXISTING WEEDS AND GRASSES, AND ALL FOREIGN MATERIALS IN THE PLANTING BED AND SOD AREAS SHALL BE REMOVED AND CLEAN FLORIDA FILL OF pH 5.5-6.5 SHALL BE INSTALLED PRIOR TO ANY INSTALLATION OF PLANTS OR TREES.
16. ALL TREES AND SHRUBS IN SOD TO BE IN A (4) FOOT MINIMUM MULCHED RING AROUND TRUNK OR SHRUB BASE.
17. ALL TREES PLANTED IN SOD TO HAVE (10) INCH PLASTIC PROTECTOR (BLACK FLEXIBLE 6" PIPE) AROUND TRUNK BASE TO PROTECT FROM MOWING DAMAGE.
18. TREE HOLES WILL BE TWICE THE DIAMETER OF THE CONTAINER AND OF EQUAL DEPTH.



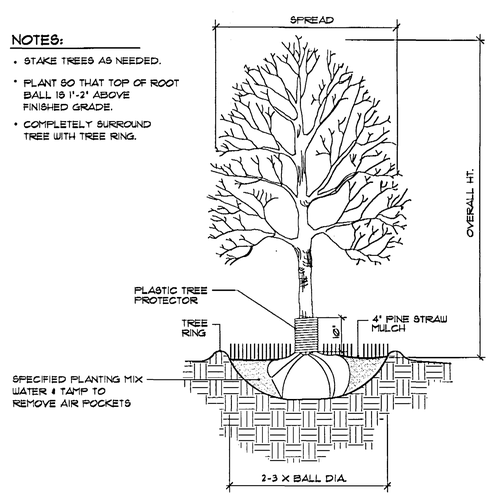
LANDSCAPE MATERIALS SCHEDULE:

SYM.	QTY.	COMMON NAME	BOTANICAL NAME	SIZE	SPACING/REMARKS
• BASIN TREES-PHASE I					
A.R.	5	Red Maple	Acer rubrum	30 Gal.	Florida #1
B.N.	8	River Birch	Betula nigra	30 Gal.	Florida #1
C.C.	3	Redbud	Cercis canadensis	15 Gal.	Florida #1
C.F.	4	Swamp Dogwood	Cornus foemia	15 Gal.	Florida #1
F.C.	3	Pop Ash	Fraxinus caroliniana	15 Gal.	Florida #1
F.P.	2	Green Ash	Fraxinus pennsylvania	15 Gal.	Florida #1
G.L.	3	Loblolly Bay	Gordonia lasianthus	15 Gal.	Florida #1
M.G.	2	Southern Magnolia	Magnolia grandiflora	30 Gal.	Florida #1
M.V.	2	Sweet Bay	Magnolia virginiana	15 Gal.	Florida #1
N.B.	2	Swamp Tupelo	Nyssa biflora	15 Gal.	Florida #1
N.S.	3	Black Gum	Nyssa sylvatica	15 Gal.	Florida #1
P.P.L.	10	Longleaf Pine	pinus palustris	15 Gal.	Florida #1
Q.M.	4	Basket Oak	Quercus michauxii	15 Gal.	Florida #1
Q.V.	10	Live Oak	Quercus virginiana	30 Gal.	Florida #1
S.P.	7	Cabbage Palm	Sabal palmetto	FG	12'-14' ct, no-boots
T.D.	20	Bald Cypress	Taxodium distichum	15 Gal.	Florida #1
• BASIN SHRUBS-PHASE I					
A.P.P.	17	Pipe-Stem Wood	Agarista populifolia	1 Gal.	Florida #1
C.A.	5	Stringlily	Crinum americanum	3 Gal.	Florida #1
C.O.	30	Buttonbush	Cephalanthus occidentalis	1 Gal.	Florida #1
C.S.P.	32	Yellow Canna	Canna sp.	3 Gal.	Florida #1
H.C.	3	Scarlet Hibiscus	Hibiscus coccineus	1 Gal.	Florida #1
H.Q.	9	Oakleaf Hydrangea	Hydrangea quercifolia	3 Gal.	Florida #1
I.V.B.	35	Blue Flag Iris	Iris virginica	1 Gal.	Florida #1
J.E.	27	Softrush	Juncus effusus	1 Gal.	Florida #1
M.C.	30	Wax Myrtle	Myrica cerifera	3 Gal.	Florida #1
M.F.C.	6	Simpson's Stopper	Myrcianthes fragans 'Compacta'	3 Gal.	Florida #1
S.R.	20	Silver Saw Palmetto	Serenoa Repens	3 Gal.	Florida #1
Z.F.	27	Coontie	Zamia floridana	1 Gal.	Florida #1
• MISCELLANEOUS					
SOD	30,000 SQFT.	Bermudagrass 'TIF 419'	Cynodon dactylon 'TIF 419'		Mow with sharp blade at 4" raised cut
MULCH	*	Pine Straw Mulch			4" minimum layer, Mulch all disturbed areas

* Landscape Contractor shall provide totals for sod and mulch and verify all plant quantities prior to bid.

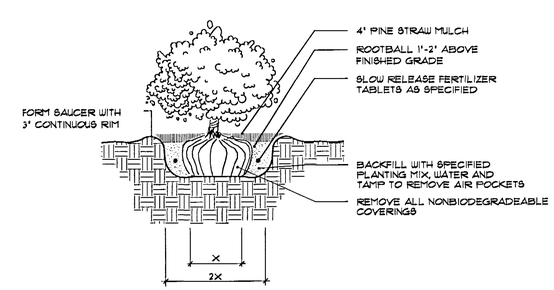
NOTES:

- STAKE TREES AS NEEDED.
- PLANT SO THAT TOP OF ROOT BALL IS 1'-2' ABOVE FINISHED GRADE.
- COMPLETELY SURROUND TREE WITH TREE RING.



TREE PLANTING DETAIL

SCALE: NOT TO SCALE



SHRUB PLANTING DETAIL

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McCLAIN DESIGN GROUP, INC.
LANDSCAPE ARCHITECTURAL AND GRAPHIC SERVICES
GAINESVILLE, FLORIDA EMAIL: MDGTREE@AOL.COM
FAX: (352) 372-6822 PHONE: (352) 372-2808

MADERA CLUSTER DEVELOPMENT

STORMWATER BASIN #1 LANDSCAPE PLAN

GAINESVILLE, FLORIDA

DATE: 01-21-02

SUBMITTAL DATE:

REVISIONS:

NO.	DATE:

NORTH:

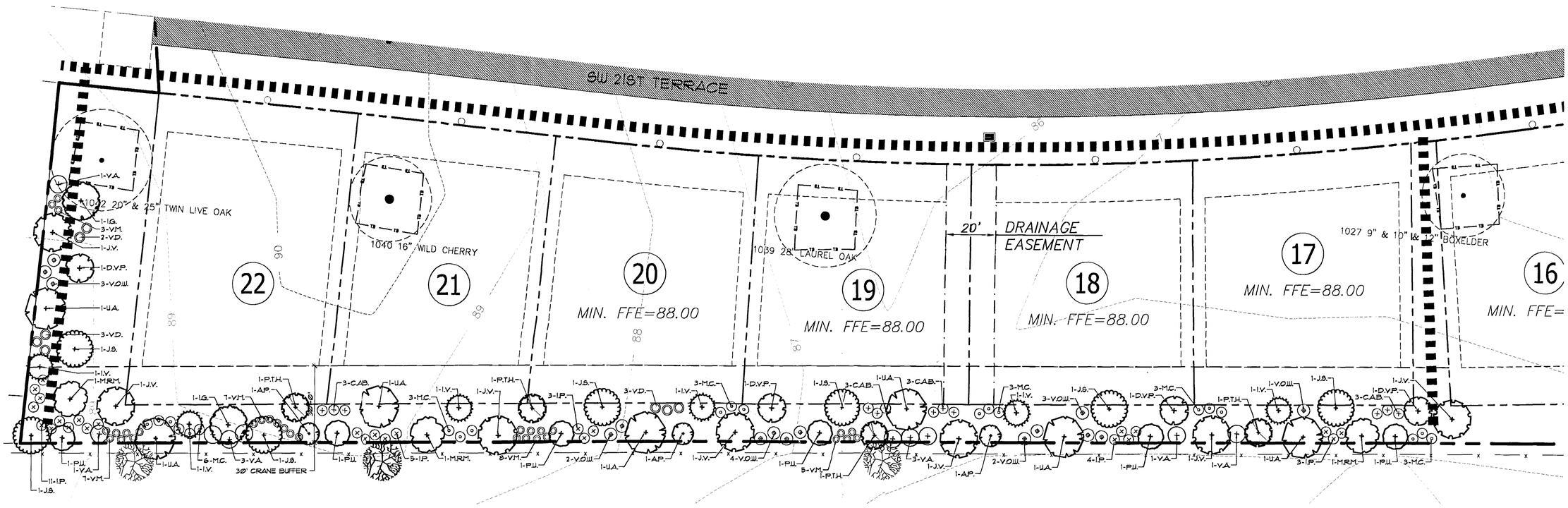
0 ONE INCH 1"

SCALE: 1"=20'-0"

JOB NO: 02-001

SHEET #: LS-1

Project No. 02-001
Drawing By: Kori Soderholm - Plot Time: Feb 01, 2002 - 11:08am
Drawing Name: L:\McDesk Design Group\2000\02-001 (Madera)\MDG Drawings\Landscape Plan\02001001.dwg



LANDSCAPE MATERIALS SCHEDULE:

SYM.	QTY.	COMMON NAME	BOTANICAL NAME	SIZE	SPACING/REMARKS
• BUFFER TREES: To be located within existing vegetation, in 30' buffer area behind lots 17-22, as shown.					
A.P.	3	Dwarf Paw Paw	Asimina parviflora	7 Gal.	Florida #1
D.V.P.	4	Persimmon	Diospyros virginiana	7 Gal.	Florida #1
I.G.	2	Gallberry	Ilex glabra	7 Gal.	Florida #1
I.V.	6	Yaupon Holly	Ilex vomitoria	15 Gal.	Florida #1
J.S.	7	Southern Red Cedar	Juniperus silicicola	15 Gal.	Florida #1
J.V.	7	Eastern Red Cedar	Juniperus virginiana	15 Gal.	Florida #1
M.R.M.	3	Mulberry	Morus rubra	7 Gal.	Florida #1
P.T.H.	4	Hoptree	Ptelea trifoliate	7 Gal.	Florida #1
P.U.	6	Flatwoods Plum	Prunus umbellata	15 Gal.	Florida #1
U.A.	7	Winged Elm	Ulmas alata	30 Gal.	Florida #1
• BUFFER SHRUBS: To be located within existing vegetation, in 30' buffer area behind lots 17-22, as shown. Stagger shrubs between proposed trees for a natural appearance.					
C.A.B.	12	American Beautyberry	Callicarpa americana	1 Gal.	Florida #1
I.P.	26	Florida Yellow Anise	Illicium parviflorum	3 Gal.	Florida #1
M.C.	21	Wax Myrtle	Myrica cerifera	3 Gal.	Florida #1
V.A.	10	Sparkleberry	Vaccinium arboreum	3 Gal.	Florida #1
V.D.	8	Southern Arrow-Wood	Viburnum dentatum	1 Gal.	Florida #1
V.M.	30	Ground Blueberry	Vaccinium myrsinites	1 Gal.	Florida #1
V.O.W.	15	Walter's Viburnum	Viburnum obovatum	3 Gal.	Florida #1
• MISCELLANEOUS					
MULCH	*	Pine Straw Mulch			4" minimum layer

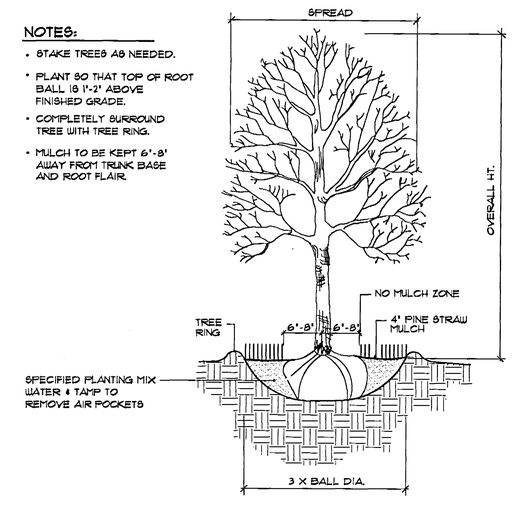
* Landscape Contractor shall provide totals for mulch and verify all plant quantities prior to bid.

LANDSCAPE PLANTING NOTES:

1. LANDSCAPE CONTRACTOR SHALL CALL THE CITY PARKS DIVISION AT (352) 334-2171 TO SCHEDULE AN ON-SITE MEETING PRIOR TO PURCHASING ANY PLANT MATERIAL.
2. CONTRACTOR SHALL VERIFY THE LOCATION OF UTILITIES AND EXISTING TREES AND VEGETATION PRIOR TO THE COMMENCEMENT OF THE LANDSCAPE WORK.
3. THE CONTRACTOR SHALL PROTECT ALL TREES DESIGNATED TO BE SAVED FROM DAMAGE DURING CONSTRUCTION USING TREE BARRICADES WITH REASONABLE PROTECTION ZONES AS CONSTRUCTION PERMITS. NO STORAGE OF FUEL OR CONSTRUCTION MATERIALS SHALL BE PERMITTED AROUND TREES TO BE SAVED.
4. ALL TREES AND SHRUBS SHALL BE OF THE SIZES AS CALLED FOR IN THE LANDSCAPE MATERIAL SCHEDULE. ANY MATERIALS AS DETERMINED BY THE LANDSCAPE ARCHITECT AS NOT MEETING THE SIZES AND QUALITY AS CALLED FOR SHALL BE REMOVED FROM THE SITE.
5. ALL PLANT MATERIAL SHALL BE FLORIDA #1 OR BETTER AS OUTLINED BY GRADES AND STANDARDS FOR NURSERY PLANTS, DIVISION OF PLANT INDUSTRY, FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES. PLANT MATERIAL SHALL BE CLEARLY IDENTIFIED AS FLORIDA #1 OR BETTER ON EITHER LABELS OR INVOICES.
6. MULCH ALL DISTURBED AREA WITH THREE (3) INCH MINIMUM LAYER OF PINE BARK NUGGETS AS INDICATED.
7. WATER ALL PLANT MATERIAL IMMEDIATELY AFTER PLANTING. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE WATER AND IRRIGATION FUNCTIONING ADEQUATELY FROM THE TIME OF PLANTING UNTIL ONE YEAR AFTER ACCEPTANCE BY THE OWNER, TO INSURE THAT THE PLANT MATERIAL SURVIVES.
8. IF QUANTITIES DIFFER BETWEEN PLAN AND SCHEDULE, THOSE ON THE PLAN SHALL GOVERN. THE CONTRACTOR SHALL VERIFY THAT THE QUANTITIES INDICATED WILL PROVIDE THE COVERAGE AS SPECIFIED AND REPORT ANY DISCREPANCIES TO THE LANDSCAPE ARCHITECT AT THE TIME OF BIDDING.
9. ALL PLANT MATERIAL SHALL BE GUARANTEED ONE YEAR AFTER ACCEPTANCE BY THE OWNER.
10. ALL SHRUB MATERIAL SHALL BE PLANTED IN STAGGERED ROWS, SPACED ON CENTER (O.C.) AS INDICATED.
11. WATERING WILL BE ACCOMPLISHED BY THE USE OF AN UNDERGROUND IRRIGATION SYSTEM.
12. ALL TREES SHALL BE STAKED AS NEEDED AND USING BIODEGRADABLE TWINE. THE LANDSCAPE CONTRACTOR WILL RETURN WITHIN ONE YEAR TO REMOVE STAKES.
13. OSMOCOTE "FLORIDA BLEND" SLOW RELEASE FERTILIZER IS TO BE INSTALLED IN EACH PLANTING HOLE PRIOR TO INSTALLATION OF ALL SHRUBS AND GROUND COVERS, FOLLOWING THE MANUFACTURERS SPECIFICATIONS.
14. ALL TREES WRAPPED IN BURLAP, PLANTING BAGS, OR ANY OTHER FABRIC WILL HAVE THIS MATERIAL CUT ON FOUR SIDES THE ENTIRE LENGTH OF THE BALL, AND MATERIAL REMOVED FROM THE SITE.
15. REMOVAL OF ALL CONSTRUCTION DEBRIS, LIMEROCK, EXCESS OF BUILDERS SAND, CONCRETE AND MORTAR DEBRIS, EXISTING WEEDS AND GRASSES, AND ALL FOREIGN MATERIALS IN THE PLANTING BED AND SOD AREAS SHALL BE REMOVED AND CLEAN FLORIDA FILL OF pH 5.5-6.5 SHALL BE INSTALLED PRIOR TO ANY INSTALLATION OF PLANTS OR TREES.
16. TREE HOLES WILL BE TWICE THE DIAMETER OF THE CONTAINER AND OF EQUAL DEPTH.

NOTES:

- STAKE TREES AS NEEDED.
- PLANT SO THAT TOP OF ROOT BALL IS 1'-2' ABOVE FINISHED GRADE.
- COMPLETELY SURROUND TREE WITH TREE RING.
- MULCH TO BE KEPT 6'-8' AWAY FROM TRUNK BASE AND ROOT FLAIR.



TREE PLANTING DETAIL

SCALE: NOT TO SCALE

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McCLAIN DESIGN GROUP, INC.
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GAINESVILLE, FLORIDA EMAIL: MDGTREE@AOL.COM
FAX: (352) 372-6622 PHONE: (352) 372-2808

MADERA CLUSTER DEVELOPMENT

GAINESVILLE, FLORIDA

CRANE BUFFER LANDSCAPE PLAN

DATE: 01-21-02

SUBMITTAL DATE:

REVISIONS:

NO.:	DATE:

NORTH:

0 ONE INCH 1"

SCALE: 1"=20'-0"

JOB NO: 02-001

SHEET #: LS-2

Project No. 02-001
Drawing By: Kurt Soderholm - Plot Time: Feb 01, 2002 - 11:20am
Drawing Name: C:\MyDocs\Design Group\02001\02-001 Madera\MDG Drawings\Landscape Plan\02001001.dwg

PLAT BOOK __ ,PAGE __
SHEET TWO OF TWO

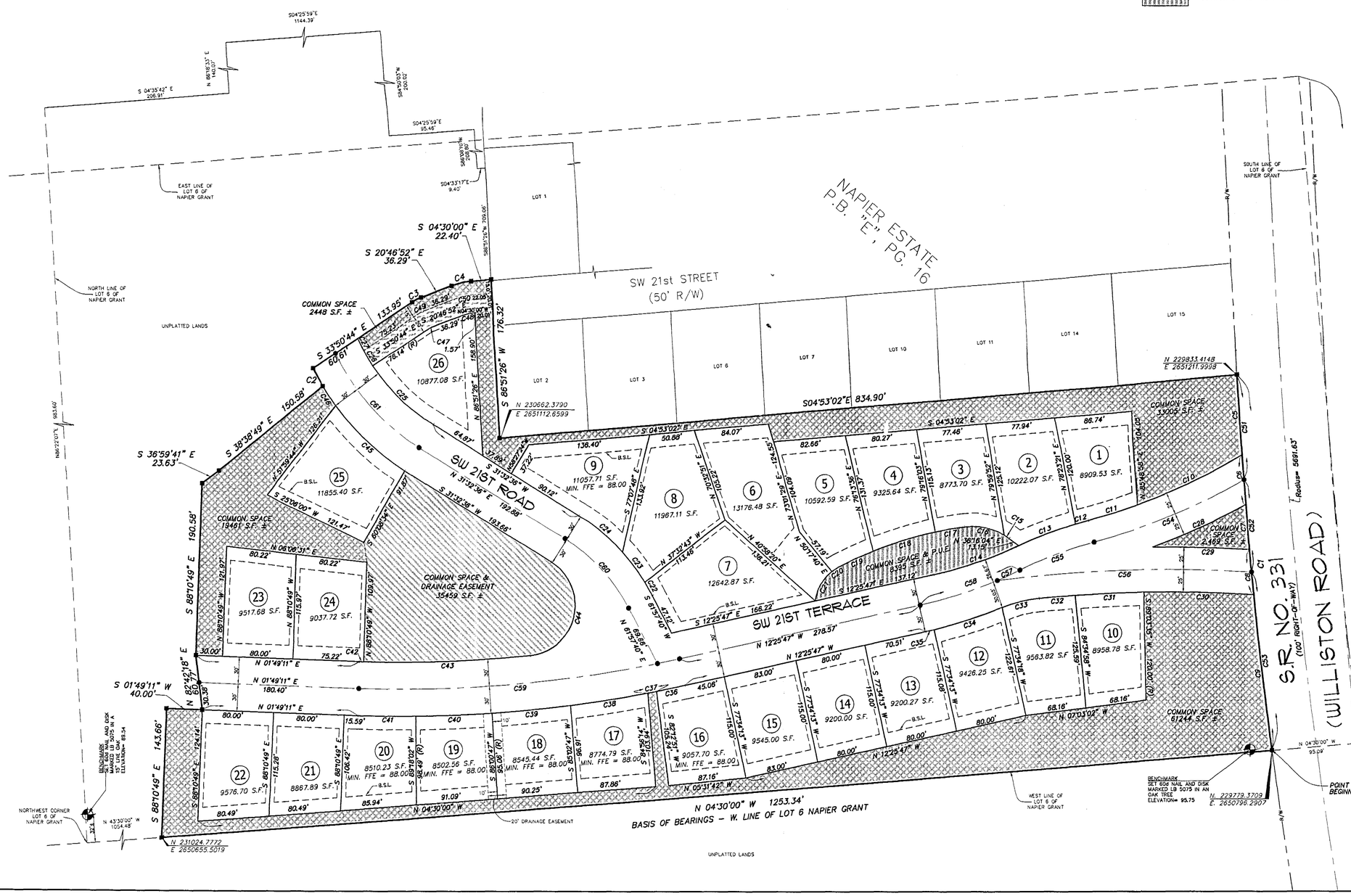
MADERA CLUSTER DEVELOPMENT
PHASE I
LYING IN LOT 6 OF THE NAPIER GRANT, TOWNSHIP 10 SOUTH, RANGE 20 EAST, IN THE CITY OF GAINESVILLE, ALACHUA COUNTY, FLORIDA

Causeaux & Ellington, Inc.
Engineering • Surveying • Planning
6011 NW 1st Place, Gainesville, Florida 32607
Phone: (352) 331-1976 Fax: (352) 331-2476

M.A.R. 01-3790plat
01/04/02 17:15

GRAPHIC SCALE
(IN FEET)
1 inch = 60 ft.

LEGEND:
P.B. = PLAT BOOK
PG. = PAGE
P.R.M. = PERMANENT REFERENCE MONUMENT
R/W = RIGHT-OF-WAY
(R) = RADIAL
P.U.E. = PUBLIC UTILITY EASEMENT
B.S.L. = BUILDING SETBACK LINE
ID. = IDENTIFICATION
MIN. FFE. = MINIMUM FINISHED FLOOR ELEVATION
● = PERMANENT CONTROL POINT (NAIL & DISK LB 5075) TO BE PLACED
□ = P.R.M. 4"X4" CONCRETE MONUMENT FOUND (ID. AS SHOWN)
■ = PERMANENT REFERENCE MONUMENT (LB 5075) PLACED
= SITE BENCHMARK (AS SHOWN)
BUILDING SETBACK LINES
= 20' EMERGENCY INGRESS/EGRESS ACCESS & P.U.E.
= COMMON SPACE AND DRAINAGE EASEMENT
= COMMON SPACE
= COMMON SPACE AND P.U.E.


NAPIER ESTATE P.B. "E", PG. 16
SW 21st STREET (50' R/W)
SW 21ST ROAD
SW 21ST TERRACE
S.R. NO. 331 (100' RIGHT-OF-WAY) (WILLISTON ROAD)
COMMON SPACE & DRAINAGE EASEMENT 35459 S.F. ±
COMMON SPACE 19461 S.F. ±
COMMON SPACE 2448 S.F. ±
COMMON SPACE 3,005 S.F. ±
COMMON SPACE 2,469 S.F. ±
COMMON SPACE 81,244 S.F. ±
COMMON SPACE & P.U.E. 8395 S.F. ±
N 04°30'00" W 1253.34'
BASIS OF BEARINGS – W. LINE OF LOT 6 NAPIER GRANT
POINT OF BEGINNING
SOUTHWEST CORNER OF LOT 6 OF NAPIER GRANT
NORTHWEST CORNER LOT 6 OF NAPIER GRANT
EAST LINE OF LOT 6 OF NAPIER GRANT
NORTH LINE OF LOT 6 OF NAPIER GRANT
SOUTH LINE OF LOT 6 OF NAPIER GRANT
WEST LINE OF LOT 6 OF NAPIER GRANT
UNPLATTED LANDS
20' DRAINAGE EASEMENT
BENCHMARK SET 60d NAIL AND DISK MARKED LB 5075 IN AN OAK TREE ELEVATION= 95.75
N 229779.3709 E 2650796.2907
N 229833.4148 E 2651211.9998
N 230662.3790 E 2651112.6599
N 231024.7772 E 2650655.5019
S 04°53'02" E 834.90'
S 86°51'26" W 176.32'
S 04°30'00" E 22.40'
S 20°46'52" E 36.29'
S 33°50'44" E 60.61'
S 38°38'49" E 150.58'
S 36°59'41" E 23.63'
S 01°49'11" W 40.00'
S 88°10'49" E 143.66'
S 88°10'49" E 190.58'
N 43°30'00" W 1044.48'
N 04°30'00" W 95.09'
R Radius= 5691.63'
N85°01'22"E 145.57'
N85°01'21"E 98.56'
N 88°16'33" E 140.07'
S 04°35'42" E 206.91'
S 04°25'59" E 1144.39'
S 04°25'59" E 95.46'
S 04°33'17" E 9.40'
S 04°25'03" W 200.02'
S 85°51'26" W 100.00'
S 85°51'26" W 100.04'
N 86°51'26" E 158.90'
S 86°51'26" E 158.90'
N 01°49'11" E 180.40'
N 12°25'47" W 278.57'
N 05°31'42" W 87.16'
N 07°03'02" W 68.16'
N 04°30'00" W 1044.48'
N 88°10'49" W 160.97'
N 88°10'49" W 121.97'
N 88°10'49" W 115.97'
N 88°10'49" W 124.14'
N 88°10'49" W 115.28'
N 88°10'49" W 106.42'
N 88°10'49" W 103.94'
N 88°10'49" W 96.91'
N 88°10'49" W 90.06'
N 88°10'49" W 90.25'
N 88°10'49" W 91.09'
N 88°10'49" W 85.94'
N 88°10'49" W 80.49'
N 88°10'49" W 80.49'
N 88°10'49" W 80.22'
N 88°10'49" W 80.22'
N 88°10'49" W 75.22'
N 88°10'49" W 30.00'
N 88°10'49" W 30.39'
N 88°10'49" W 60.77'
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N 88°10'49" W 80.00

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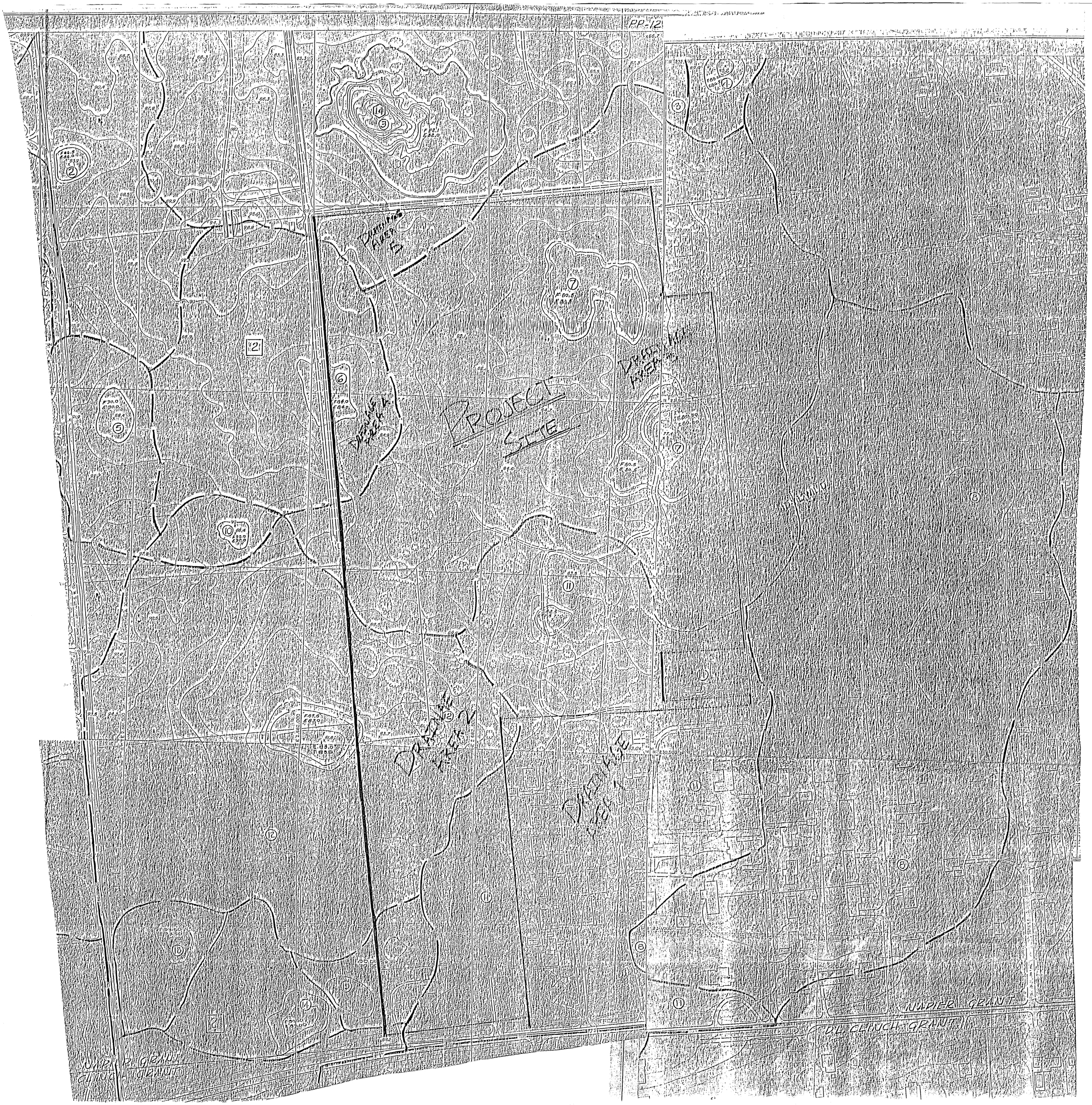

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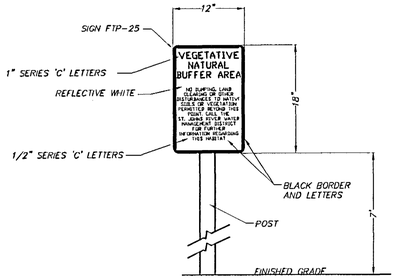
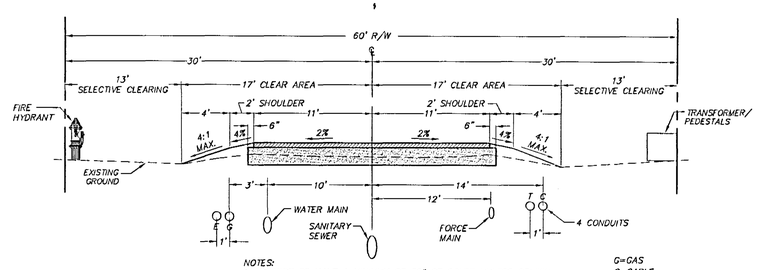


SIGN NOTES:

1. SIGN CONSTRUCTION, DESIGN AND PLACEMENT SHALL COMPLY WITH STATE AND LOCAL STATUTES.

VEGETATIVE NATURAL BUFFER SIGN DETAIL

NTS



NOTES:

1. UTILITIES TO HAVE A MINIMUM OF 36" OF COVER UNLESS STATED OTHERWISE.

2. PROPOSED 4' WIDE PAVED PATH TO BE FIELD LOCATED WITHIN THE PROPOSED R/W TO PRESERVE EXISTING TREES AND VEGETATION.

3. PROPOSED TRANSFORMER PADS SHALL HAVE A 10' CLEARED AREA IN FRONT AND 4' CLEARED AREA ON EACH SIDE. CLEARING AROUND FIRE HYDRANTS SHALL NOT EXCEED A 10'x10' AREA, WITH THE PROPOSED STRUCTURE IN THE CENTER OF THE CLEARING.

G=GAS
C=CABLE
E=ELECTRIC
T=TELEPHONE
W=WATER

60' R/W UTILITY ALLOCATION DESIGN SPEED = 20 MPH

NTS

WATER AND SANITARY SEWER NOTES

1. ALL WATER AND SEWER INSTALLATIONS SHALL COMPLY WITH G.R.U. CONSTRUCTION STANDARDS AND SPECIFICATIONS.

2. A MINIMUM OF 10'(FT) HORIZONTAL AND 18"(IN) VERTICAL SEPARATION SHALL BE MAINTAINED BETWEEN ANY PROPOSED WATER MAIN AND SANITARY SEWER LINE.

3. THE 6"& 8" PVC WATER MAINS SHALL HAVE A DR-18 RATING. ALL 6" & 8" DIP WATER MAINS SHALL BE CLASS 51. ALL 2" PVC MAINS SHALL BE SCHEDULE 40 PIPE. ALL WATER SERVICES SHALL BE 1" POLYBUTYLENE, AND ENCASED IN 3" PVC WHEN PLACED UNDER THE PAVEMENT. ALL 2" WATER MAINS SHALL BE ENCASED IN 3" SCH 40 PVC WHEN PLACED UNDER PAVEMENT. THE 3" PVC CASING SHALL EXTEND 3'(FT) BEYOND THE EDGE OF PAVEMENT. ALL 6" AND 8" WATER MAINS UNDER PAVEMENT SHALL BE DIP EXTENDING 3' BEYOND EDGE OF PAVEMENT.

4. ALL 5/8" WATER METERS AND ASSEMBLIES SHALL BE INSTALLED BY G.R.U. AT THE R/W LINE. (SEE PLAN FOR SPECIFIC LOCATION).

5. ALL SEWER PIPE SHALL HAVE AN ASTM RATING OF 3034. ALL SERVICES SHALL BE 4" PVC SLOPED AT LEAST 1.00% TOWARD THE MAIN AND HAVE A CLEANOUT INSTALLED AT THE ELEVATION GIVEN.

6. SEWER SERVICES SHALL TERMINATE AT THE MIDPOINT OF THE FRONT LOT LINES AND AT THE R/W LIMITS OR AT THE LIMITS OF THE 5' P.U.E., AS SHOWN AND NOTED ON THE PLANS.

7. NO PERMANENT STRUCTURES, EXISTING TREES OR PROPOSED TREES SHALL BE WITHIN 10' OF ANY WATER MAIN OR 15' OF ANY WASTEWATER MAIN EXCEPT AS SHOWN HEREON.

8. PROPOSED TRANSFORMER LOCATIONS ARE INDICATED AS : ☐
   PROPOSED SECONDARY ENCLOSURE LOCATIONS ARE INDICATED AS ● SE
   PROPOSED CONDUIT LINES ARE INDICATED AS : — — — — — — —
   PROPOSED STREET LIGHT AND PEDESTAL ARE INDICATED AS : ○—○

   LOCATIONS ARE AS PROVIDED AND DESIGNED BY G.R.U.

9. WHEN WATER METER ASSEMBLIES ARE LOCATED AT A SECONDARY PEDESTAL LOCATION, PROVIDE A MINIMUM OF 5' SEPARATION BETWEEN THE SECONDARY PEDESTAL AND WATER METER ASSEMBLY. WHEN LOCATED AT TRANSFORMERS, EACH METER WILL BE SERVED BY ITS OWN TAP AND VALVE (I.E. NO DOUBLE SERVICE AT TRANSFORMER LOCATIONS).

10. ALL LOTS WITH A DESIGNATED MINIMUM FINISH FLOOR ELEVATION SHALL BE CONSTRUCTED TO THE MINIMUM FINISH FLOOR ELEVATION OR AN APPROVED BACKWATER VALVE SHALL BE PLACED ON THE SANITARY SEWER SERVICE.

GENERAL NOTES:

1. THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL LOCATION AND VERTICAL LOCATION OF ALL EXISTING UTILITIES WITHIN THE LIMITS OF CONSTRUCTION PRIOR TO COMMENCING WORK. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONTINUING CONSTRUCTION.

2. ALL CONSTRUCTION SHOWN ON THESE PLANS SHALL BE PERFORMED TO THE STANDARDS AND SPECIFICATIONS ESTABLISHED BY THE CITY OF GAINESVILLE PUBLIC WORKS DEPARTMENT. THIS INCLUDES BOTH MATERIALS AND WORKMANSHIP.

3. THE CONTRACTOR SHALL PROVIDE PROPER SIGNAGE AND TRAFFIC CONTROL IN THE AREA OF CONSTRUCTION ON THE JOB SITE AND WHEN WORKING IN OR ACCESSING PUBLIC RIGHTS-OF-WAY.

4. THE CONTRACTOR SHALL EXERCISE CARE TO AVOID DAMAGE TO ALL EXISTING UTILITIES. THE REPAIR AND/OR REPLACEMENT OF ALL EXISTING UTILITIES DAMAGED OR DESTROYED DURING THE CONSTRUCTION SHALL BE THE CONTRACTORS RESPONSIBILITY.

5. THE CONTRACTOR SHALL STOCKPILE TOPSOIL AND CONSTRUCTION MATERIALS IN AREAS DESIGNATED BY THE OWNER.

6. THE CONTRACTOR SHALL MAINTAIN IN HIS POSSESSION A COPY OF THE WATER MANAGEMENT DISTRICT CONSTRUCTION PERMIT. HE SHALL BE RESPONSIBLE FOR ADHERENCE TO ALL CONDITIONS CONTAINED IN THE PERMIT.

7. THE CONTRACTOR SHALL NOTIFY THE CITY OF GAINESVILLE PUBLIC WORKS DEPARTMENT AT LEAST 24 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION AND AT PERTINENT STAGES OF THE WORK, AS DIRECTED BY CITY INSPECTORS.

8. THE CONTRACTOR SHALL UNDERCUT ALL UNSUITABLE MATERIAL ENCOUNTERED BENEATH THE PROPOSED LIMEROCK BASE COURSE TO A DEPTH OF 18 INCHES BELOW THE BOTTOM OF THE BASE AND SHALL BACKFILL WITH CLEAN SUITABLE FILL MEETING FDOT ROAD AND BRIDGE CONSTRUCTION STANDARDS AND SPECIFICATIONS.

9. THE ROADWAY CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE FDOT STANDARDS AND SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (JANUARY 2000).

10. ALL CONCRETE USED SHALL BE 3,000 PSI MINIMUM.

11. ALL STORM SEWER PIPE SHALL BE CLASS III REINFORCED CONCRETE PIPE.

12. ALL STORM SEWER CURB INLETS AND DITCH BOTTOM INLETS SHALL CONFORM TO THE REFERENCED FDOT INDEX (FDOT INDEX NO.'S 201, 232, 282). A CHAIN SHALL BE REQUIRED ON ALL DITCH BOTTOM INLET GRATES.

13. ALL CONCRETE STRUCTURES SHALL HAVE ALL EXPOSED EDGES CHAMFERED 3/4" AND CLASS I SURFACE FINISH.

14. SOD SHALL BE PLACED AROUND ALL STRUCTURES AS DIRECTED BY THE FDOT INDEX NO. 281. ALL OTHER DISTURBED AREAS SHALL BE SEEDED AND MULCHED. SOD SHALL BE PINNED ON SIDE SLOPES WHERE SLOPES ARE STEEPER THAN 4 TO 1 SLOPE, TYPICAL.

15. ALL WATER DISTRIBUTION AND WASTEWATER COLLECTION CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH GRU SPECIFICATIONS.

16. A PRE-CONSTRUCTION CONFERENCE SHALL BE REQUIRED. THE CONTRACTOR, ENGINEER OF RECORD AND THE OWNER SHALL MEET WITH THE CITY OF GAINESVILLE PUBLIC WORKS DEPT. PRIOR TO INITIATION OF SITE CONSTRUCTION.

17. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL ROADWAY AND DRAINAGE STRUCTURE MATERIALS, AND ALL UTILITY STRUCTURES TO THE ENGINEER FOR APPROVAL PRIOR TO ORDERING MATERIALS OR STRUCTURES. A MINIMUM OF FIVE COPIES OF SHOP DRAWINGS ARE REQUIRED.

18. ANY CHANGE ORDER REQUESTS, SITE REVISIONS, AND PAY REQUESTS MUST BE SUBMITTED TO AND APPROVED BY THE ENGINEER OF RECORD.

19. ALL CONSTRUCTION PERFORMED WITHIN SR 331 RIGHT-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH F.D.O.T. STANDARDS AND SPECIFICATIONS AND THE F.D.O.T. PERMIT.

20. UNDERDRAINS ARE NOT EXPECTED TO BE REQUIRED. THE CITY OF GAINESVILLE PUBLIC WORKS DEPARTMENT, DURING FIELD INSPECTION, SHALL DETERMINE THE NECESSITY FOR UNDERDRAINS, AND PROVIDE THE EXACT LOCATION AND REQUIREMENTS. THE CONTRACTOR SHALL INSTALL UNDERDRAINS AS REQUIRED BY CITY SPECIFICATIONS AND STANDARDS.

21. SUBSOIL EXCAVATION IS NOT EXPECTED TO BE REQUIRED. THE CITY OF GAINESVILLE PUBLIC WORKS DEPARTMENT, DURING FIELD INSPECTION, SHALL DETERMINE THE NECESSITY FOR UNDERCUTTING. THE LIMITS OF REQUIRED UNDERCUTTING EXCAVATION SHALL BE A MINIMUM OF 18" BELOW THE LIMEROCK BASE. THE CONTRACTOR SHALL EVACUATE ALL UNSUITABLE MATERIAL AND BACKFILL WITH APPROVED MATERIALS, PER CITY SPECIFICATIONS AND STANDARDS.

22. THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY EXISTING INFRASTRUCTURE LOCATIONS PRIOR TO BEGINNING ANY PORTION OF CONSTRUCTION. THE CONTRACTOR SHALL REPORT TO THE ENGINEER OF RECORD ANY SIGNIFICANT DISCREPANCIES. THE CONTRACTOR SHALL EXERCISE CARE TO PROTECT EXISTING INFRASTRUCTURE FROM DAMAGE AND SHALL BE RESPONSIBLE TO REPAIR ALL DAMAGES DUE TO NEW CONSTRUCTION.

23. THE CONTRACTOR IS RESPONSIBLE FOR EROSION/SEDIMENTATION CONTROL PRACTICES DURING CONSTRUCTION TO MINIMIZE ON-SITE EROSION/SEDIMENTATION AND TO PROTECT AGAINST DAMAGE TO OFF-SITE PROPERTY. THE FOLLOWING PRACTICES SHALL BE EMPLOYED:

A. EROSION AND SEDIMENTATION CONTROL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. AREAS OF OFF-SITE DISCHARGE DURING CONSTRUCTION SHALL BE PROTECTED WITH A SEDIMENT BARRIER PER F.D.O.T. INDEX NUMBER 102 TO PREVENT OFF-SITE DISCHARGE OF SEDIMENTS. TEMPORARY SEED AND MULCH SHOULD BE USED TO CONTROL ON-SITE EROSION WHEN IT IS NOT PRACTICAL TO ESTABLISH PERMANENT VEGETATION. SOD SHALL BE PLACED AS EARLY AS POSSIBLE ON ALL SLOPES STEEPER THEN 5 FEET HORIZONTAL TO 1 FOOT VERTICAL. SOD SHALL BE PINNED AS REQUIRED. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE MAINTAINED IN WORKING ORDER THROUGHOUT THE CONSTRUCTION PHASE. THE CONTRACTOR SHALL INSPECT AND REPAIR AS NECESSARY THE EROSION/SEDIMENTATION PROTECTION AT THE END OF EACH WORKING DAY. NOTE: EROSION/SEDIMENTATION CONTROL SHALL BE PLACED PRIOR TO SITE EXCAVATION AND FILLING, AND SHALL REMAIN IN PLACE UNTIL SITE VEGETATION AND LANDSCAPING IS COMPLETE. ALL SLOPES 3:1 OR STEEPER REQUIRE LAPPED OR PEGGED SOD.

B. ALL INLET STRUCTURES AND PIPE SHALL BE PROTECTED FROM SILTATION BY CONSTRUCTING INLET PROTECTION AS DEFINED IN THE FDOT STANDARDS.

C. PERMANENT VEGETATIVE STABILIZATION SHALL BE APPLIED ON FINE GRADED SITES AS SOON AS PRACTICAL. TEMPORARY SEEDING SHOULD BE EMPLOYED TO PREVENT EXPOSURE OF BARREN SOILS UNTIL PERMANENT VEGETATION CAN BE APPLIED.

24. LIMEROCK CONTINGENCY PLAN:
IF LIMEROCK IS ENCOUNTERED DURING EXCAVATION OF THE BASIN OR IF A SINKHOLE FORMS IN THE AREA OF A DRAINAGE BASIN THE ENGINEER OF RECORD AND THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT SHALL BE NOTIFIED BY EITHER THE CONTRACTOR OR THE ESTABLISHED OPERATION AND MAINTENANCE ENTITY. THE ENGINEER OF RECORD SHALL INSPECT THE REPAIRED AREA UPON COMPLETION OF THE REPAIR.

WHERE LIMEROCK IS ENCOUNTERED DURING EXCAVATION OF THE BASIN, THE LIMEROCK SHALL BE OVER EXCAVATED BY 3 FEET AND REPLACED WITH CLAYEY SOILS, THAT EXTEND 2 FEET BEYOND THE PERIMETER OF THE LIMEROCK OUTCROPPING. THE CLAYEY SOIL SHALL HAVE AT LEAST 30% PASSING THE NO. 200 SIEVE, COMPACTED TO 95% OF STANDARD PROCTOR, AND COMPACTED IN A WET CONDITION WITH MOISTURE 2% - 4% ABOVE OPTIMUM.

ALL BASINS SHALL BE INSPECTED MONTHLY FOR SINKHOLE OCCURRENCE. SHOULD A SINKHOLE OCCUR, THE AREA SHALL BE REPAIRED AS SOON AS POSSIBLE. REPAIR SHALL INCLUDE FILLING (LIMEROCK SUCH AS ROAD BASE MATERIAL, CLAY/SAND MIXTURE, OR CONCRETE IF NECESSARY). A 2-FOOT DEEP CAP THAT EXTENDS 2 FEET BEYOND THE PERIMETER OF THE SINKHOLE SHALL BE CONSTRUCTED WITH CLAYEY SOILS. THE CLAYEY SOIL SHALL HAVE AT LEAST 30% PASSING THE NO. 200 SIEVE, COMPACTED TO 95% OF STANDARD PROCTOR, AND COMPACTED IN A WET CONDITION WITH MOISTURE 2% - 4% ABOVE OPTIMUM. THE CLAY SOIL CAP SHALL BE REGRADED TO PREVENT CONCENTRATION OF WATERS (PONDING) AND REVEGETATED.

81616-1

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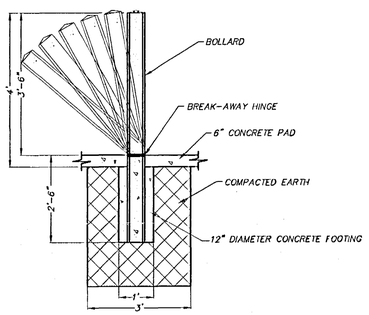
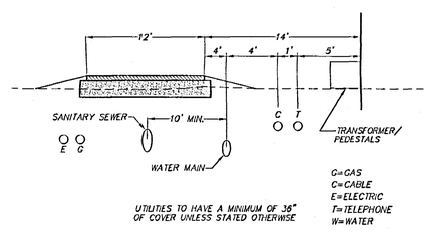
PAL



BREAK AWAY BOLLARD DETAIL

NTS



ONE-WAY PRIVATE DRIVE UTILITY ALLOCATION

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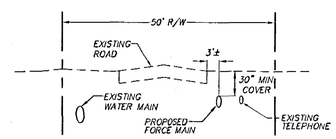

SW 21ST STREET

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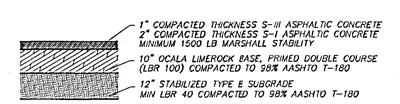
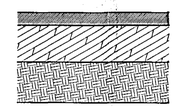


FDOT PAVEMENT DETAIL FOR PAVEMENT WITHIN FDOT ROW

NTS



ASPHALT PAVEMENT DETAIL

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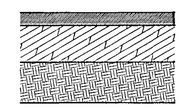

PEDESTRIAN/TRAIL PAVEMENT DETAIL

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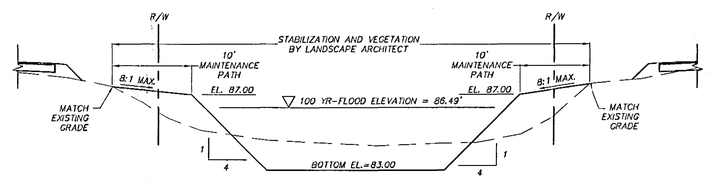
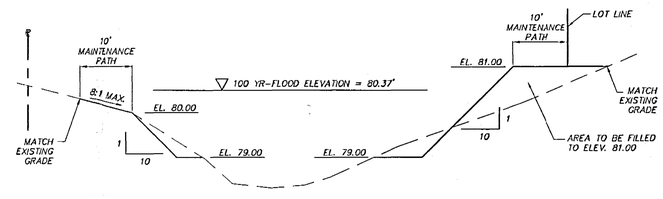


STORMWATER MANAGEMENT FACILITY #2 SECTION

(SEE SHEET C0.20)

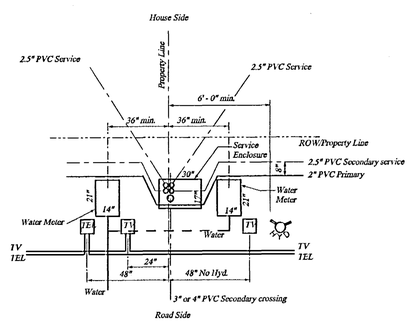
NTS



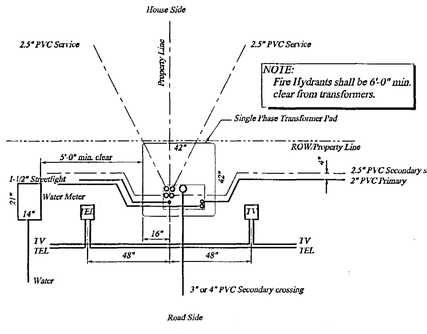
PHASE II STORMWATER MANAGEMENT FACILITY #1 SECTION

(SEE SHEET C0.20)

NTS



Typical 60' R.O.W.
Service Enclosure
Not to Scale



Typical 60' R.O.W.
Single Phase Transformer Pad
Not to Scale

ALLOCATION PLAN WITH PUE DETAILS (TYP.) (AS PROVIDED BY GRU)

NTS

CLIENT: GREEN TRUST GAINESVILLE, FLORIDA

PROJECT: MADERA CLUSTER DEVELOPMENT PHASE I

SHEET TITLE: CONSTRUCTION DETAILS AND NOTES

JOB NO.: 01-268

SHEET NO.: C0.10

DESIGNED BY: R.J.WALPOLE, P.E.
DRAWN BY: C.C. POSADA
CHECKED BY: R.P.CAUSSEAUX, P.E.

COMPUTER FILE: 01-268DT.DWG
DATE: DECEMBER 14, 2001

CE Causseaux & Ellington, Inc.
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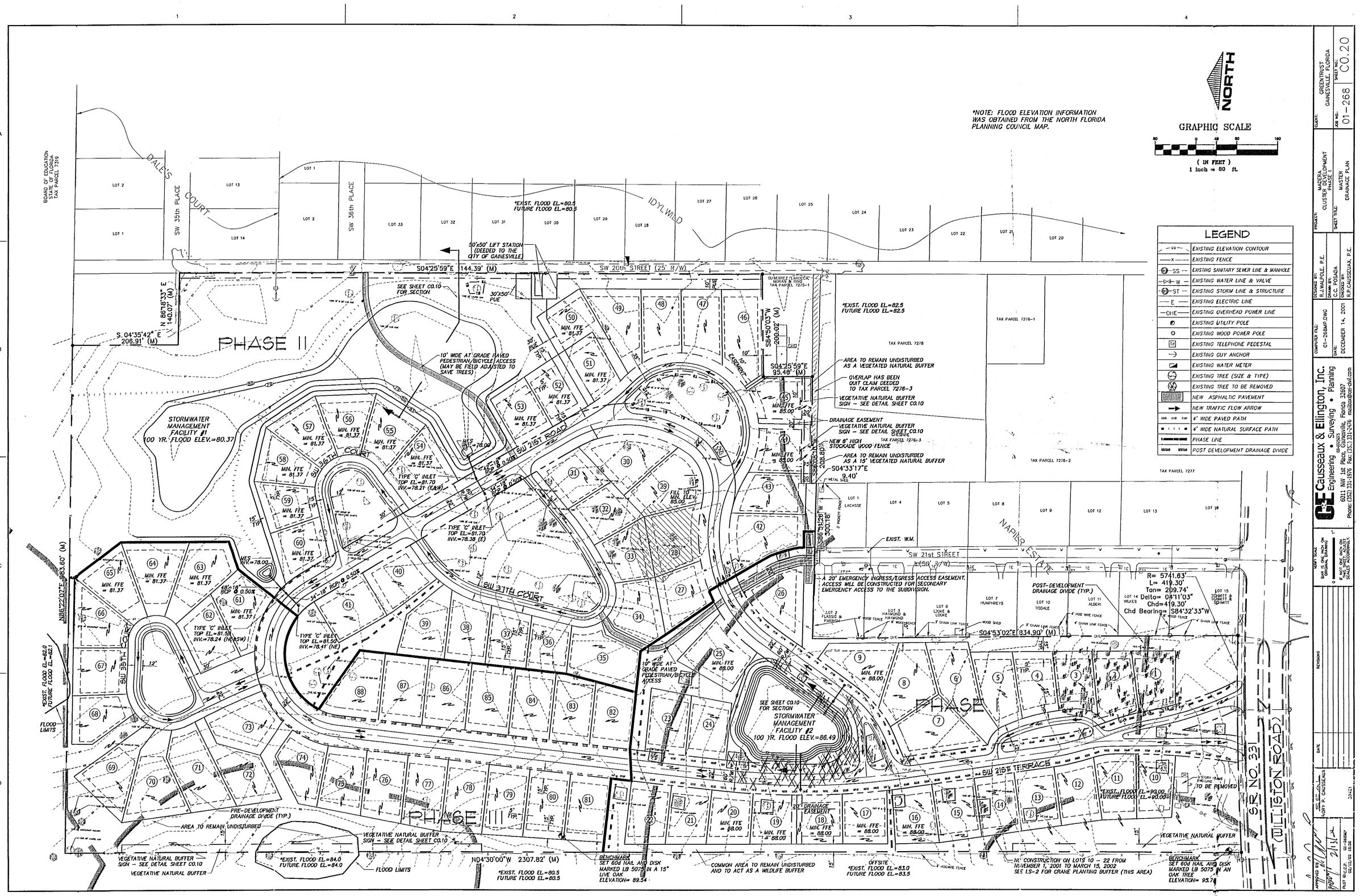
6011 NW 1st Place, Gainesville, Florida 32607
Phone: (352) 331-1976 Fax: (352) 331-2476 mailbox@ce-civil.com

MAP/ PLAT SHEET: SEE PLAT SHEET ON ORIGINAL DRAWING
0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

REVISIONS

DATE	

APPROVED BY: RONY P. CAUSSEAUX
DATE: 2/19/02
PLOT SCALE: 1:1
PLOT DATE: 02/18/02 14:37
DWG. NO. 01-268DT
39-131



CLIENT: GREENTRUST GAINESVILLE, FLORIDA
JOB NO.: 01-268
SHEET NO.: C0.20

PROJECT: MADERA CLUSTER DEVELOPMENT PHASE I
SHEET TITLE: MASTER DRAINAGE PLAN

DESIGNED BY: R.J. WALPOLE, P.E.
DRAWN BY: C.C. POSADA
CHECKED BY: R.P. CAUSSEAUX, P.E.

COMPUTER FILE: 01-268MP.DWG
DATE: DECEMBER 14, 2001

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REVISIONS

DATE

GARY P. CAUSSEAUX 33421

PART 60.C.2.D. 02/13/02 15:08

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FEB 14 2002
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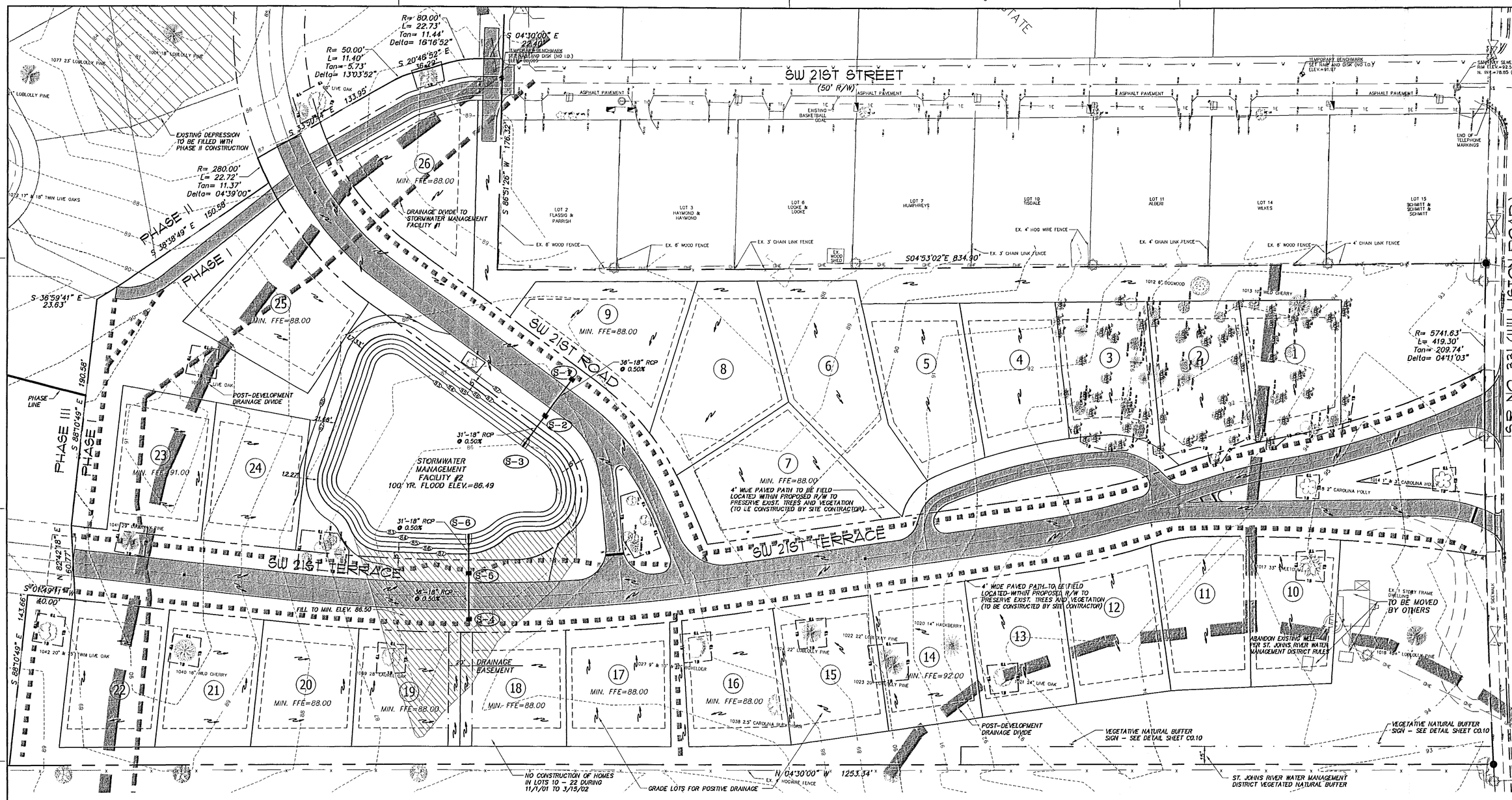
816116-1



STORMWATER STRUCTURE SCHEDULE

INDENTIFICATION	DESCRIPTION	TOP	PIPE INVERT(S)	STATION/OFFSET
S-1	TYPE 'C' SURFACE INLET WITH TRAVERSABLE SLOTS (2) AND STEEL GRATE PER FDOT INDEX NO 232	86.50	83.34 (W)	STA. 118+07.00 19' LT.
S-2	TYPE 'C' SURFACE INLET WITH TRAVERSABLE SLOTS (2) AND STEEL GRATE PER FDOT INDEX NO 232	86.50	83.16 (E) 83.16 (W)	STA. 118+07.00 19' RT.
S-3	MITERED END SECTION PER FDOT INDEX NO 272	N/A	83.00	STA. 118+07.00 51' RT.
S-4	TYPE 'C' SURFACE INLET WITH TRAVERSABLE SLOTS (2) AND STEEL GRATE PER FDOT INDEX NO 232	86.20	83.34 (E)	STA. 18+17.00 19' RT.
S-5	TYPE 'C' SURFACE INLET WITH TRAVERSABLE SLOTS (2) AND STEEL GRATE PER FDOT INDEX NO 232	86.20	83.16 (W) 83.16 (E)	STA. 18+17.00 19' LT.
S-6	MITERED END SECTION PER FDOT INDEX NO 272	N/A	83.00	STA. 18+17.00 51' LT.

LEGEND

THIS STANDARD LEGEND IS ALL INCLUSIVE AND MAY INCLUDE ITEMS NOT FOUND IN THIS SET OF PLANS

99	EXISTING ELEVATION CONTOUR		EXISTING LIGHT		EXISTING TREE TO BE REMOVED		NEW WATER METER		NEW DRAINAGE SWALE
95.2	EXISTING SPOT ELEVATION		EXISTING UTILITY POLE		EXISTING SHRUBS		NEW WATER MAIN WITH GATE VALVE & BOX		NEW 18" AREA DRAIN
x	EXISTING FENCE		EXISTING WOOD POWER POLE		EXISTING STRUCTURE		NEW FIRE HYDRANT ASSEMBLY		NEW STORM SURFACE INLET
SS	EXISTING SANITARY SEWER LINE & MANHOLE		EXISTING TELEPHONE PEDESTAL		PROJECT BENCHMARK	MH#2	NEW MANHOLE AND SEWER MAIN		DIRECTION OF SURFACE DRAINAGE FLOW
W	EXISTING WATER LINE & VALVE		EXISTING GUY ANCHOR		NEW BUILDING	C/O INV=	NEW CLEANOUT		NEW STORM CURB INLET
ST	EXISTING STORM LINE & STRUCTURE		EXISTING WELL		NEW ASPHALTIC PAVEMENT	FF=	NEW FINISH FLOOR ELEVATION	S-10	NEW STORM STRUCTURE IDENTIFICATION
E	EXISTING ELECTRIC LINE		EXISTING WATER METER		NEW CONCRETE PAVEMENT	SF	NEW SILT FENCE LINE	100.00	NEW SPOT ELEVATION
OHW	EXISTING OVERHEAD UTILITY WIRES		EXISTING FIRE HYDRANT		NEW TRAFFIC FLOW ARROW		DRAINAGE DIVIDE		4' WIDE PAVED PATH
GAS	EXISTING GAS LINE		EXISTING TREE (SIZE & TYPE)	TB	NEW TREE BARRICADE	150	NEW ELEVATION CONTOUR		4' WIDE NATURAL SURFACE PATH

NORTH

GRAPHIC SCALE

40 20 0 20 40 80

(IN FEET)
1 inch = 40 ft.

CLIENT: GREENTRUST GAINESVILLE, FLORIDA

JOB NO.: 01-268

SHEET NO.: C1.00

PROJECT: MADERA CLUSTER DEVELOPMENT PHASE I

SHEET TITLE: GRADING AND DRAINAGE SITE PLAN

DESIGNED BY: R.J. WALPOLE, P.E.
DRAWN BY: C.C. POSADA
CHECKED BY: R.P. CAUSSEUAX, P.E.

COMPUTER FILE: 01-268PC.DWG

DATE: DECEMBER 14, 2001

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VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1 INCH
IF NOT ONE INCH, THEN PLOT WILL BE NOT SCALED ACCORDINGLY.

REVISIONS

DATE

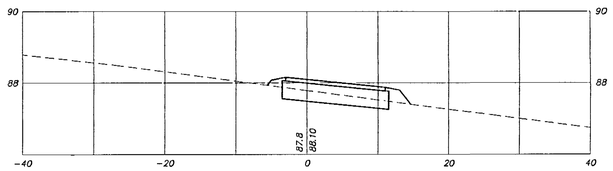
R.P. CAUSSEUAX, P.E.
FLORIDA REG. NO. 39421

APPROVED BY: 2/12/02
DATE:

PLOT SCALE: 01-268PG
PLOT DATE: 02/12/02 11:08

RECEIVED
FEB 14 2002
PAL

119+00



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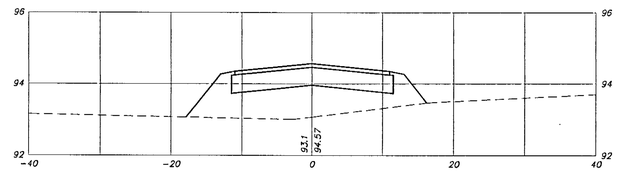

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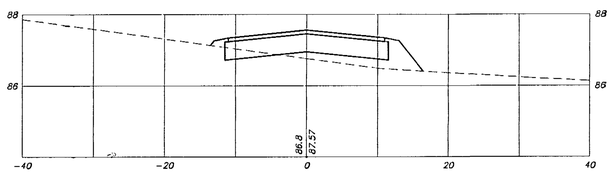

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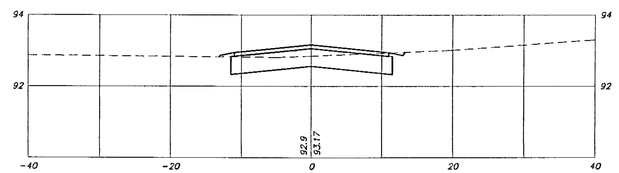

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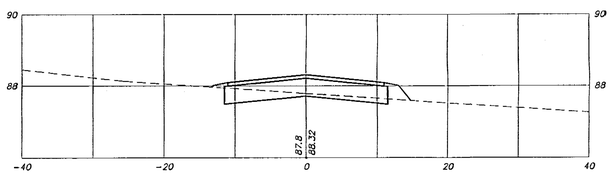

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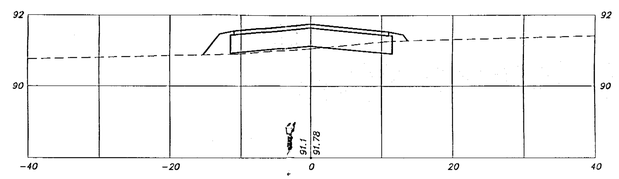

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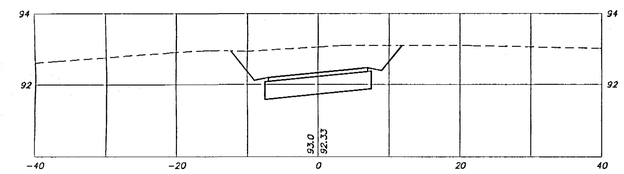

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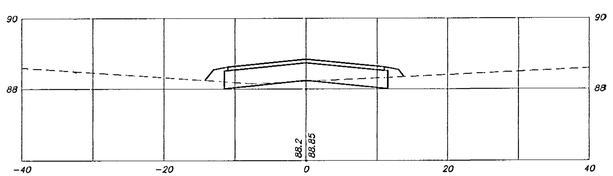

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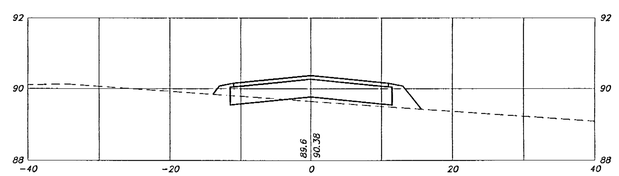

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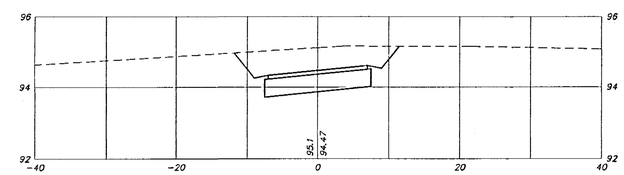

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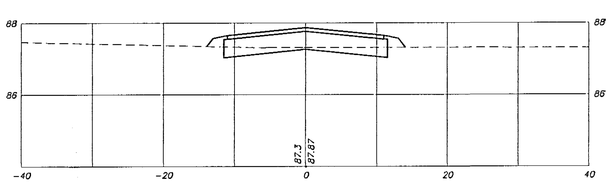

SW 21ST ROAD

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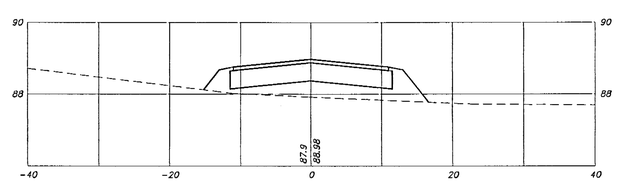

SW 21ST ROAD

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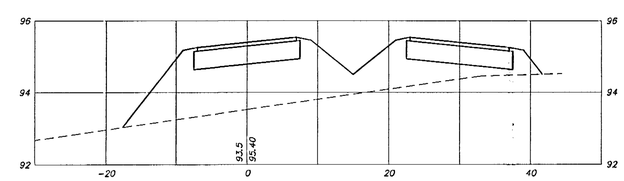

SW 21ST TERRACE

SCALE: 1" = 10' HORIZ.
1" = 2' VERT.

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FEB 14 2002
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CLIENT: GREENTRUST GAINESVILLE, FLORIDA

JOB NO.: 01-268 SHEET NO.: C4.00

PROJECT: MADERA CLUSTER DEVELOPMENT PHASE I

SHEET TITLE: ROADWAY CROSS SECTIONS

DESIGNED BY: R.J.WALPOLE, P.E.
DRAWN BY: C.L.CASSADA
CHECKED BY: R.P.CAUSSEUAX, P.E.

COMPUTER FILE: 01-268CS.DWG
DATE: DECEMBER 14, 2001

Causseaux & Ellington, Inc.
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6011 NW 1st Place
Gainesville, Florida 32607
Phone: (352) 331-1976 Fax: (352) 331-2476 mailbox@ce-civil.com

VARY SCALE BASED ON ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, SCALE ACCORDINGLY.

REVISIONS

DATE

HENRY P. CAUSSEAUX
34421

APPROVED BY:
DATE: 2/13/02

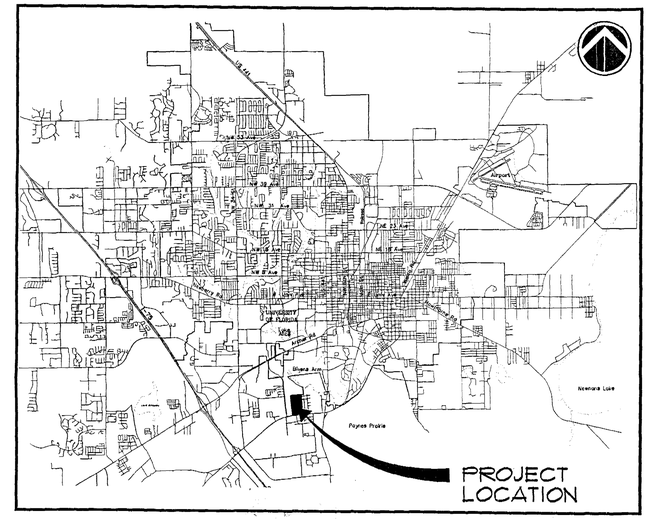
PLOT DATE: 02/13/02 TIME: 10:44 FILE: 01-268CS

CONSTRUCTION DRAWINGS

FOR

"MADERA CLUSTER DEVELOPMENT" PHASE I

LYING IN LOT 6 OF THE NAPIER GRANT,
TOWNSHIP 10 SOUTH, RANGE 20 EAST
CITY OF GAINESVILLE, FLORIDA



VICINITY MAP
N.T.S.

ROADWAY AND TRAFFIC DESIGN STANDARDS (BOOKLET DATE JANUARY 2000)

(INDEXES LISTED BELOW ARE LISTED FOR QUICK REFERENCE. CONTRACTOR SHALL REFER TO DESIGN STANDARDS BOOKLET FOR INDEXES NOT LISTED BUT WHICH MAY BE REQUIRED TO COMPLETE CONSTRUCTION)

INDEX NO.	DESCRIPTION
102	ROCK BAG, BAILED HAY, BAILED STRAW AND SILT FENCE BARRIERS (3 SHEETS)
104	EROSION CONTROL (2 SHEETS)
201	SUPPLEMENTARY DETAILS FOR MANHOLES AND INLETS
205	COVER HEIGHT (4 SHEETS)
232	DITCH BOTTOM INLETS-TYPES C,D,E AND H (5 SHEETS)
272	CROSS DRAIN MITERED END SECTION (6 SHEETS)
281	DITCH PAVEMENT AND SODDING (2 SHEETS)
300	CURB & CURB AND GUTTER
304	PUBLIC SIDEWALK CURB RAMPS (5 SHEETS)
500	REMOVAL OF ORGANIC AND PLASTIC MATERIAL (2 SHEETS)
505	EMBANKMENT UTILIZATION (3 SHEETS)
600	GENERAL INFORMATION FOR TRAFFIC CONTROL THROUGH WORK ZONES (10 SHEETS)

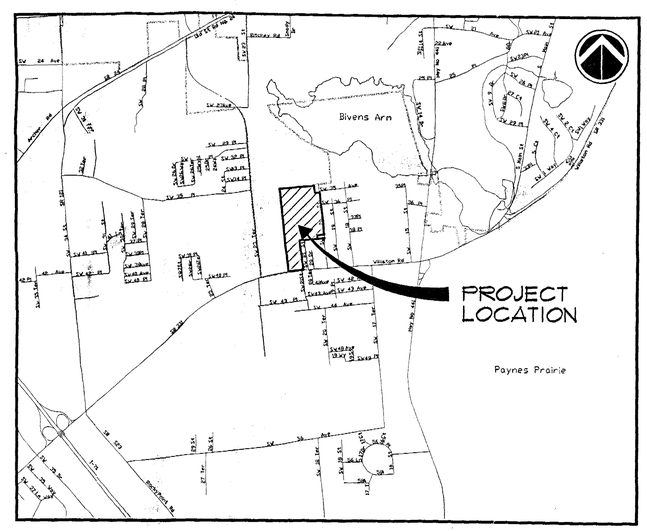
INDEX

SHEETS	TITLE
C0.00	COVER SHEET/CONTENTS OF SET
C0.10	CONSTRUCTION DETAILS AND NOTES
C0.20	MASTER DRAINAGE PLAN
C1.00	GRADING AND DRAINAGE SITE PLAN
C2.00–C2.10	WATER AND SANITARY SEWER SITE PLAN
C3.00–C3.08	SANITARY SEWER AND ROADWAY PLAN AND PROFILE
C3.10–C3.11	OFF-SITE FORCE MAIN PLAN AND PROFILE
C4.00–C4.10	ROADWAY CROSS SECTIONS
C5.00	LIFT STATION SITE PLAN
C5.10	LIFT STATION MECHANICAL/ELECTRICAL PLAN
C5.20	LIFT STATION MECHANICAL SECTION AND DETAILS
C5.30	LIFT STATION ELECTRICAL SECTION AND DETAILS
C5.40	LIFT STATION DETAILS
LS-1	ORDINANCE LANDSCAPE PLAN (BY OTHERS)
PLAT	RECORD PLAT (2 SHEETS)

DATE	REVISION

DATE: DECEMBER 14, 2001

DEVELOPER:
GREENTRUST, L.L.C.
3909 NEWBERRY ROAD, SUITE A
GAINESVILLE, FLORIDA 32607
(352)376-2444



LOCATION MAP
SCALE: 1"=600'

RECEIVED
DEC 19 2001
PAL

CLIENT: GREENTRUST GAINESVILLE, FLORIDA
JOB NO.: 01-268
SHEET NO.: C0.00
PROJECT: MADERA CLUSTER DEVELOPMENT PHASE I
SHEET TITLE: COVER SHEET AND CONTENTS OF SET
DESIGNED BY: R.J.WALPOLE, E.I.
DRAWN BY: C.C. POSADA
CHECKED BY: R.P.CAUSSEUAX, P.E.
COMPUTER FILE: 01-268CV.DWG
DATE: DECEMBER 14, 2001

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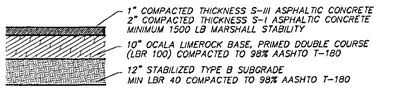
REVISIONS | DATE

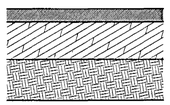
SEAL: RORY P. CAUSSEAUX 34421

DATE: 12/17/01
APPROVED BY: [signature]
PLAT REVIEW: 12/20/01 14:17



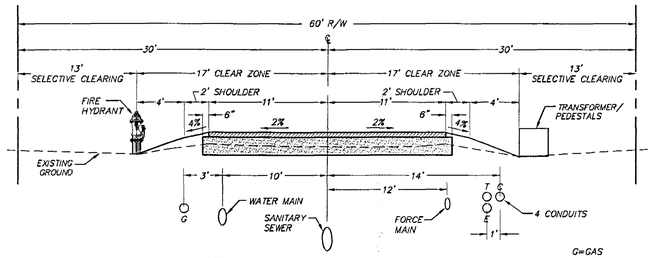
FDOT PAVEMENT DETAIL FOR PAVEMENT WITHIN FDOT ROW

NTS



ASPHALT PAVEMENT DETAIL

NTS



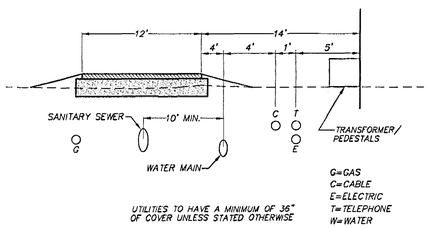
NOTES:
1. UTILITIES TO HAVE A MINIMUM OF 36" OF COVER UNLESS STATED OTHERWISE.

2. PROPOSED 4' WIDE PAVED PATH TO BE FIELD LOCATED WITHIN THE PROPOSED R/W TO PRESERVE EXISTING TREES AND VEGETATION.

3. CLEARING AROUND PROPOSED TRANSFORMER PAD AND FIRE HYDRANT SHALL NOT EXCEED A 10'x10' AREA, WITH THE PROPOSED STRUCTURE IN THE CENTER OF THE CLEARING.

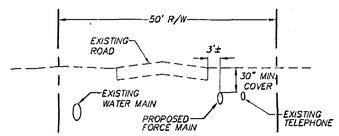
60' R/W UTILITY ALLOCATION DESIGN SPEED = 20 MPH

NTS



ONE-WAY PRIVATE DRIVE UTILITY ALLOCATION

NTS



SW 21ST STREET

NTS

WATER AND SANITARY SEWER NOTES

1. ALL WATER AND SEWER INSTALLATIONS SHALL COMPLY WITH G.R.U. CONSTRUCTION STANDARDS AND SPECIFICATIONS.

2. A MINIMUM OF 10'(FT) HORIZONTAL AND 18"(IN) VERTICAL SEPARATION SHALL BE MAINTAINED BETWEEN ANY PROPOSED WATER MAIN AND SANITARY SEWER LINE.

3. THE 6"& 8" PVC WATER MAINS SHALL HAVE A DR-18 RATING. ALL 6" & 8" DIP WATER MAINS SHALL BE CLASS 51. ALL 2" PVC MAINS SHALL BE SCHEDULE 40 PIPE. ALL WATER SERVICES SHALL BE 1" POLYBUTYLENE, AND ENCASED IN 3" PVC WHEN PLACED UNDER THE PAVEMENT. ALL 2" WATER MAINS SHALL BE ENCASED IN 3" SCH 40 PVC WHEN PLACED UNDER PAVEMENT. THE 3" PVC CASING SHALL EXTEND 3'(FT) BEYOND THE EDGE OF PAVEMENT. ALL 6" AND 8" WATER MAINS UNDER PAVEMENT SHALL BE DIP EXTENDING 3' BEYOND EDGE OF PAVEMENT.

4. ALL 5/8" WATER METERS AND ASSEMBLIES SHALL BE INSTALLED BY G.R.U. AT THE R/W LINE. (SEE PLAN FOR SPECIFIC LOCATION).

5. ALL SEWER PIPE SHALL HAVE AN ASTM RATING OF 3034. ALL SERVICES SHALL BE 4" PVC SLOPED AT LEAST 1.00% TOWARD THE MAIN AND HAVE A CLEANOUT INSTALLED AT THE ELEVATION GIVEN.

6. SEWER SERVICES SHALL TERMINATE AT THE MIDPOINT OF THE FRONT LOT LINES AND AT THE R/W LIMITS OR AT THE LIMITS OF THE 5' P.U.E., AS SHOWN AND NOTED ON THE PLANS.

7. NO PERMANENT STRUCTURES, EXISTING TREES OR PROPOSED TREES SHALL BE WITHIN 10' OF ANY WATER MAIN OR 15' OF ANY WASTEWATER MAIN EXCEPT AS SHOWN HEREON.

8. PROPOSED TRANSFORMER LOCATIONS ARE INDICATED AS : ▭
PROPOSED SECONDARY PEDESTAL LOCATIONS ARE INDICATED AS : ● SP
PROPOSED CONDUIT LINES ARE INDICATED AS : — · — · — · —

LOCATIONS ARE AS PROVIDED AND DESIGNED BY G.R.U.

9. WHEN WATER METER ASSEMBLIES ARE LOCATED AT A SECONDARY PEDESTAL LOCATION, PROVIDE A MINIMUM OF 5' SEPARATION BETWEEN THE SECONDARY PEDESTAL AND WATER METER ASSEMBLY. WHEN LOCATED AT TRANSFORMERS, EACH METER WILL BE SERVED BY ITS OWN TAP AND VALVE (I.E. NO DOUBLE SERVICE AT TRANSFORMER LOCATIONS).

10. ALL LOTS WITH A DESIGNATED MINIMUM FINISH FLOOR ELEVATION SHALL BE CONSTRUCTED TO THE MINIMUM FINISH FLOOR ELEVATION OR AN APPROVED BACKWATER VALVE SHALL BE PLACED ON THE SANITARY SEWER SERVICE.

GENERAL NOTES:

1. THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL LOCATION AND VERTICAL LOCATION OF ALL EXISTING UTILITIES WITHIN THE LIMITS OF CONSTRUCTION PRIOR TO COMMENCING WORK. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONTINUING CONSTRUCTION.

2. ALL CONSTRUCTION SHOWN ON THESE PLANS SHALL BE PERFORMED TO THE STANDARDS AND SPECIFICATIONS ESTABLISHED BY THE CITY OF GAINESVILLE PUBLIC WORKS DEPARTMENT. THIS INCLUDES BOTH MATERIALS AND WORKMANSHIP.

3. THE CONTRACTOR SHALL PROVIDE PROPER SIGNAGE AND TRAFFIC CONTROL IN THE AREA OF CONSTRUCTION ON THE JOB SITE AND WHEN WORKING IN OR ACCESSING PUBLIC RIGHTS-OF-WAY.

4. THE CONTRACTOR SHALL EXERCISE CARE TO AVOID DAMAGE TO ALL EXISTING UTILITIES. THE REPAIR AND/OR REPLACEMENT OF ALL EXISTING UTILITIES DAMAGED OR DESTROYED DURING THE CONSTRUCTION SHALL BE THE CONTRACTORS RESPONSIBILITY.

5. THE CONTRACTOR SHALL STOCKPILE TOPSOIL AND CONSTRUCTION MATERIALS IN AREAS DESIGNATED BY THE OWNER.

6. THE CONTRACTOR SHALL MAINTAIN IN HIS POSSESSION A COPY OF THE WATER MANAGEMENT DISTRICT CONSTRUCTION PERMIT. HE SHALL BE RESPONSIBLE FOR ADHERENCE TO ALL CONDITIONS CONTAINED IN THE PERMIT.

7. THE CONTRACTOR SHALL NOTIFY THE CITY OF GAINESVILLE PUBLIC WORKS DEPARTMENT AT LEAST 24 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION AND AT PERTINENT STAGES OF THE WORK, AS DIRECTED BY CITY INSPECTORS.

8. THE CONTRACTOR SHALL UNDERCUT ALL UNSUITABLE MATERIAL ENCOUNTERED BENEATH THE PROPOSED LIMEROCK BASE COURSE TO A DEPTH OF 18 INCHES BELOW THE BOTTOM OF THE BASE AND SHALL BACKFILL WITH CLEAN SUITABLE FILL MEETING FDOT ROAD AND BRIDGE CONSTRUCTION STANDARDS AND SPECIFICATIONS.

9. THE ROADWAY CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE FDOT STANDARDS AND SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (JANUARY 2000).

10. ALL CONCRETE USED SHALL BE 3,000 PSI MINIMUM.

11. ALL STORM SEWER PIPE SHALL BE CLASS III REINFORCED CONCRETE PIPE.

12. ALL STORM SEWER CURB INLETS AND DITCH BOTTOM INLETS SHALL CONFORM TO THE REFERENCED FDOT INDEX (FDOT INDEX NO.'S 201, 232, 262). A CHAIN SHALL BE REQUIRED ON ALL DITCH BOTTOM INLET GRATES.

13. ALL CONCRETE STRUCTURES SHALL HAVE ALL EXPOSED EDGES CHAMFERED 3/4" AND CLASS I SURFACE FINISH.

14. SOD SHALL BE PLACED AROUND ALL STRUCTURES AS DIRECTED BY THE FDOT INDEX NO. 281. ALL OTHER DISTURBED AREAS SHALL BE SEEDED AND MULCHED. SOD SHALL BE PINNED ON SIDE SLOPES WHERE SLOPES ARE STEEPER THAN 4 TO 1 SLOPE, TYPICAL.

15. ALL WATER DISTRIBUTION AND WASTEWATER COLLECTION CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH GRU SPECIFICATIONS.

16. A PRE-CONSTRUCTION CONFERENCE SHALL BE REQUIRED. THE CONTRACTOR, ENGINEER OF RECORD AND THE OWNER SHALL MEET WITH THE CITY OF GAINESVILLE PUBLIC WORKS DEPT. PRIOR TO INITIATION OF SITE CONSTRUCTION.

17. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL ROADWAY AND DRAINAGE STRUCTURE MATERIALS, AND ALL UTILITY STRUCTURES TO THE ENGINEER FOR APPROVAL PRIOR TO ORDERING MATERIALS OR STRUCTURES. A MINIMUM OF FIVE COPIES OF SHOP DRAWINGS ARE REQUIRED.

18. ANY CHANGE ORDER REQUESTS, SITE REVISIONS, AND PAY REQUESTS MUST BE SUBMITTED TO AND APPROVED BY THE ENGINEER OF RECORD.

19. ALL CONSTRUCTION PERFORMED WITHIN SR 331 RIGHT-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH F.D.O.T. STANDARDS AND SPECIFICATIONS AND THE F.D.O.T. PERMIT.

20. UNDERDRAINS ARE NOT EXPECTED TO BE REQUIRED. THE CITY OF GAINESVILLE PUBLIC WORKS DEPARTMENT, DURING FIELD INSPECTION, SHALL DETERMINE THE NECESSITY FOR UNDERDRAINS, AND PROVIDE THE EXACT LOCATION AND REQUIREMENTS. THE CONTRACTOR SHALL INSTALL UNDERDRAINS AS REQUIRED BY CITY SPECIFICATIONS AND STANDARDS.

21. SUBSOIL EXCAVATION IS NOT EXPECTED TO BE REQUIRED. THE CITY OF GAINESVILLE PUBLIC WORKS DEPARTMENT, DURING FIELD INSPECTION, SHALL DETERMINE THE NECESSITY FOR UNDERCUTTING. THE LIMITS OF REQUIRED UNDERCUTTING EXCAVATION SHALL BE A MINIMUM OF 18" BELOW THE LIMEROCK BASE. THE CONTRACTOR SHALL EVACUATE ALL UNSUITABLE MATERIAL AND BACKFILL WITH APPROVED MATERIALS, PER CITY SPECIFICATIONS AND STANDARDS.

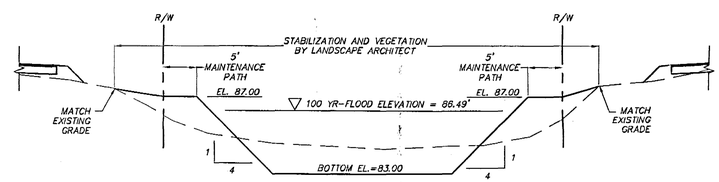
22. THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY EXISTING INFRASTRUCTURE LOCATIONS PRIOR TO BEGINNING ANY PORTION OF CONSTRUCTION. THE CONTRACTOR SHALL REPORT TO THE ENGINEER OF RECORD ANY SIGNIFICANT DISCREPANCIES. THE CONTRACTOR SHALL EXERCISE CARE TO PROTECT EXISTING INFRASTRUCTURE FROM DAMAGE AND SHALL BE RESPONSIBLE TO REPAIR ALL DAMAGES DUE TO NEW CONSTRUCTION.

23. THE CONTRACTOR IS RESPONSIBLE FOR EROSION/SEDIMENTATION CONTROL PRACTICES DURING CONSTRUCTION TO MINIMIZE ON-SITE EROSION/SEDIMENTATION AND TO PROTECT AGAINST DAMAGE TO OFF-SITE PROPERTY. THE FOLLOWING PRACTICES SHALL BE EMPLOYED:

A. EROSION AND SEDIMENTATION CONTROL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. AREAS OF OFF-SITE DISCHARGE DURING CONSTRUCTION SHALL BE PROTECTED WITH A SEDIMENT BARRIER PER F.D.O.T. INDEX NUMBER 102 TO PREVENT OFF-SITE DISCHARGE OF SEDIMENTS. TEMPORARY SEED AND MULCH SHOULD BE USED TO CONTROL ON-SITE EROSION WHEN IT IS NOT PRACTICAL TO ESTABLISH PERMANENT VEGETATION. SOD SHALL BE PLACED AS EARLY AS POSSIBLE ON ALL SLOPES STEEPER THEN 5 FEET HORIZONTAL TO 1 FOOT VERTICAL. SOD SHALL BE PINNED AS REQUIRED. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE MAINTAINED IN WORKING ORDER THROUGHOUT THE CONSTRUCTION PHASE. THE CONTRACTOR SHALL INSPECT AND REPAIR AS NECESSARY THE EROSION/SEDIMENTATION PROTECTION AT THE END OF EACH WORKING DAY. NOTE: EROSION/SEDIMENTATION CONTROL SHALL BE PLACED PRIOR TO SITE EXCAVATION AND FILLING, AND SHALL REMAIN IN PLACE UNTIL SITE VEGETATION AND LANDSCAPING IS COMPLETE. ALL SLOPES 3:1 OR STEEPER REQUIRE LAPPED OR PEGGED SOD.

B. ALL INLET STRUCTURES AND PIPE SHALL BE PROTECTED FROM SILTATION BY CONSTRUCTING INLET PROTECTION AS DEFINED IN THE FDOT STANDARDS.

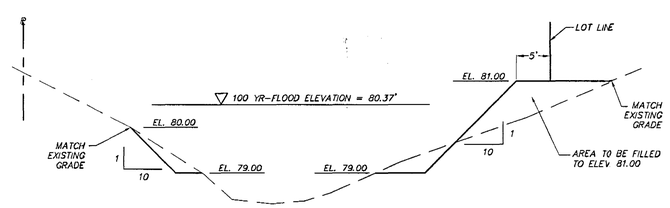
C. PERMANENT VEGETATIVE STABILIZATION SHALL BE APPLIED ON FINE GRADED SITES AS SOON AS PRACTICAL. TEMPORARY SEEDING SHOULD BE EMPLOYED TO PREVENT EXPOSURE OF BARREN SOILS UNTIL PERMANENT VEGETATION CAN BE APPLIED.



STORMWATER MANAGEMENT FACILITY #1 SECTION

(SEE SHEET C0.20)

NTS



PHASE II STORMWATER MANAGEMENT FACILITY #2 SECTION

(SEE SHEET C0.20)

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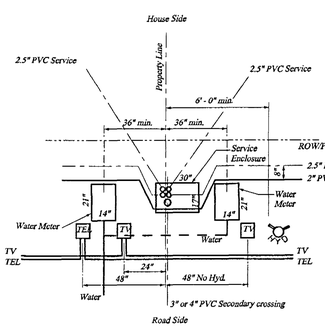
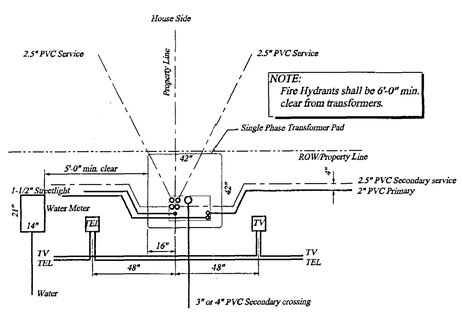


Typical 60' R.O.W
Service Enclosure
Not to Scale



Typical 60' R.O.W.
Single Phase Transformer Pad
Not to Scale

ALLOCATION PLAN WITH PUE DETAILS (TYP.) (AS PROVIDED BY GRU)

NTS

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CLIENT: GREENTRUST GAINESVILLE, FLORIDA

JOB NO.: 01-268 SHEET NO.: C0.10

PROJECT: MADERA CLUSTER DEVELOPMENT PHASE I

SHEET TITLE: CONSTRUCTION DETAILS AND NOTES

DESIGNED BY: R.J.WALPOLE, E.I.
DRAWN BY: J.C. POSADA
CHECKED BY: R.P.CAUSSEUAX, P.E.

COMPUTER FILE: 01-268DT.DWG
DATE: DECEMBER 14, 2001

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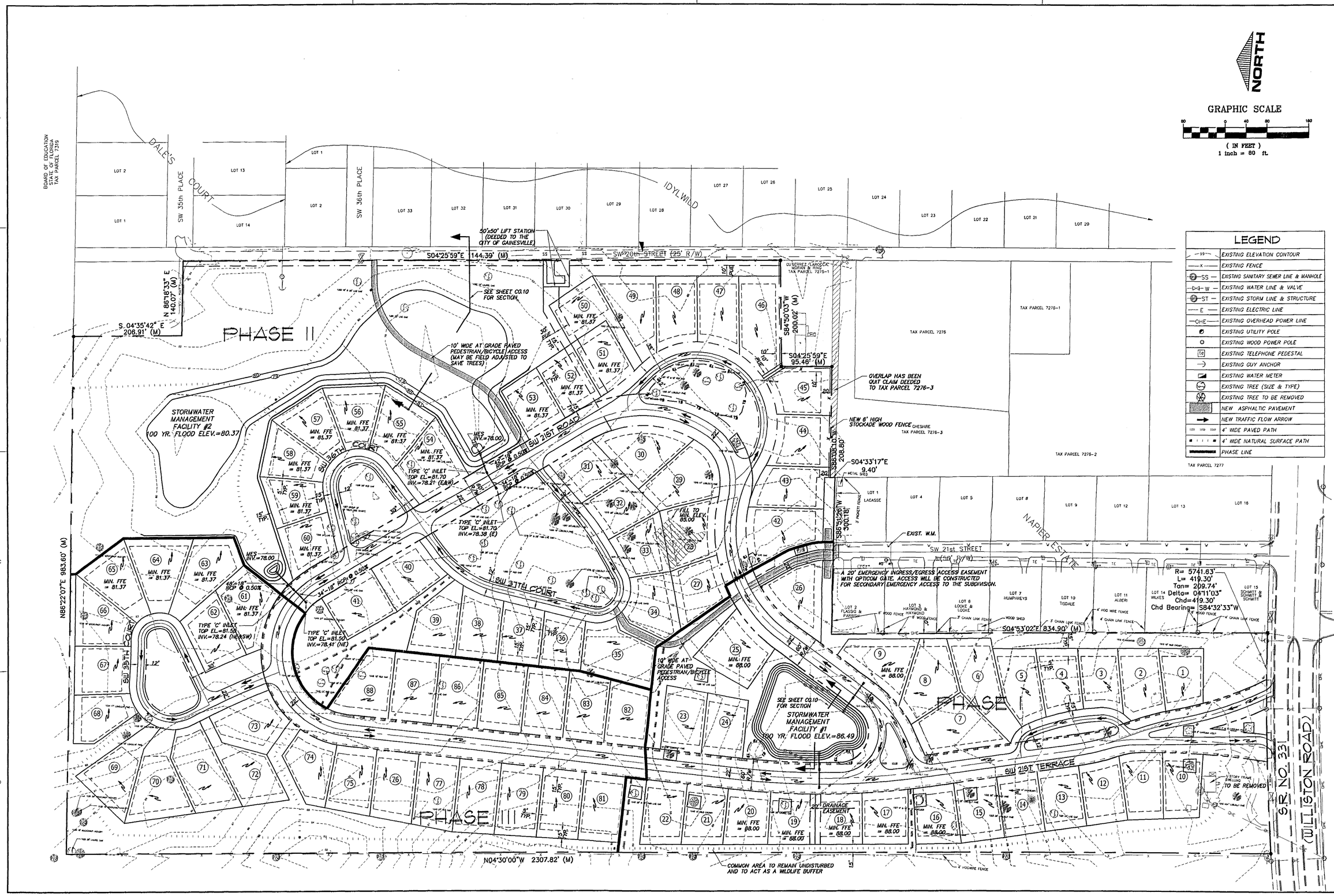
VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH, ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

REVISIONS | DATE

SEAL: RORY P. CAUSSEAUX 39421

DATE: 12/10/01
APPROVED BY: [signature]
PLOT DATE: 12/10/01 14:55



CLIENT: GREENTRUST GAINESVILLE, FLORIDA

JOB NO.: 01-268 SHEET NO.: C0.20

PROJECT: MADERA CLUSTER DEVELOPMENT PHASE I

SHEET TITLE: MASTER DRAINAGE PLAN

DESIGNED BY: R.J.WALPOLE, E.I. DRAWN BY: K.L. PEDRANDA CHECKED BY: R.P.CAUSSEUAX, P.E.

COMPUTER FILE: 01-268MP.DWG DATE: DECEMBER 14, 2001

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"DRAFT" SCALE USE ONLY WHEN PLOTTING ON 8.5"x11" PAPER. IF NOT ONE INCH ON 24"x36" PLOT, ADJUST SCALES ACCORDINGLY.

REVISIONS

DATE

SEAL RORY P. CAUSSEAUX 39421

DATE: 12/10/01

PREPARED BY: R.J.W. CHECKED BY: R.P.C. PLOT SCALE: 1"=80' PLOT DATE: 12/10/01 FILE: 01-268MP

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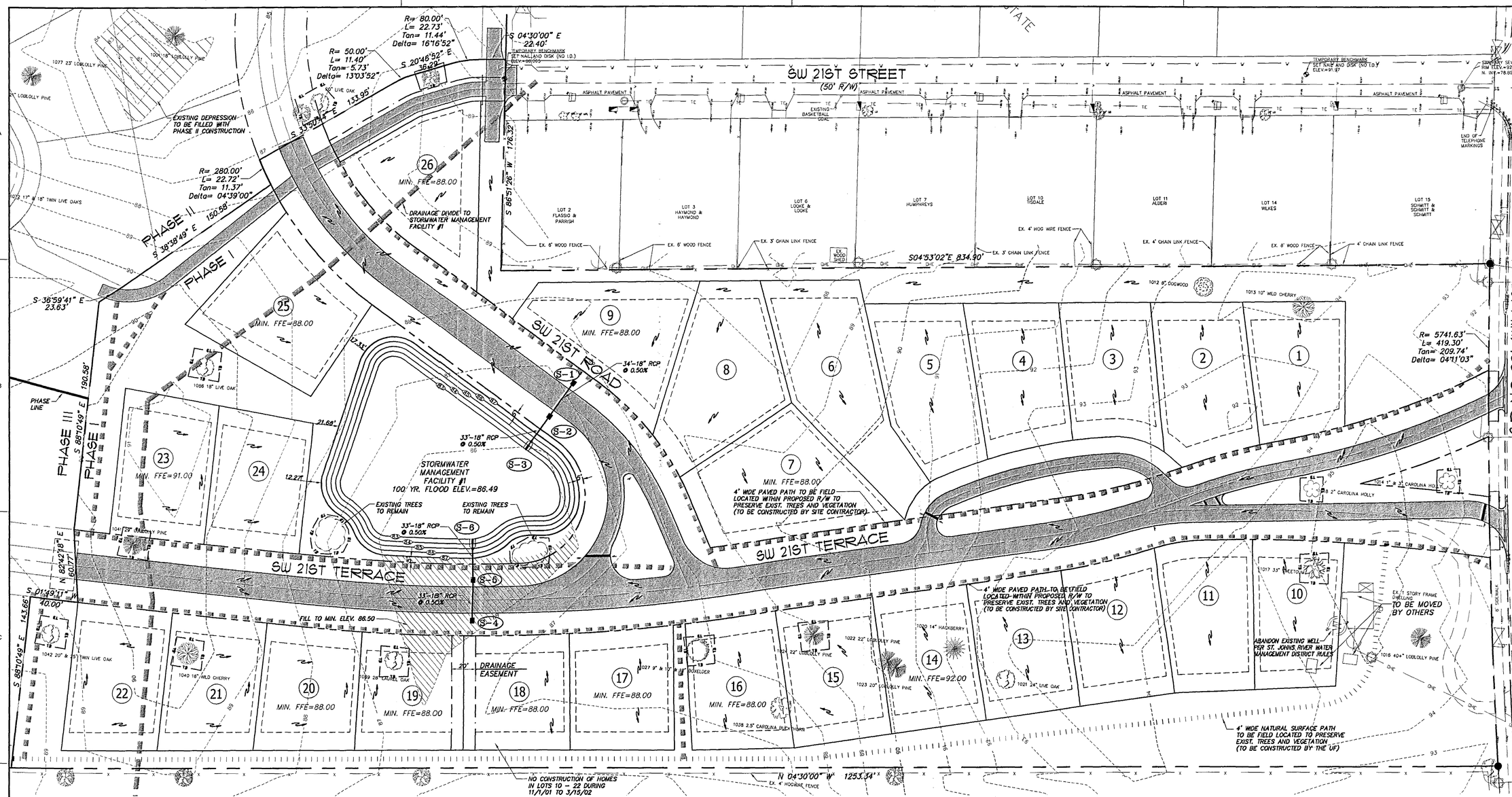

STORMWATER STRUCTURE SCHEDULE

INDENTIFICATION	DESCRIPTION	TOP	PIPE INVERT(S)	STATION/OFFSET
S-1	TYPE 'C' SURFACE INLET WITH TRAVERSABLE SLOTS (2) AND STEEL GRATE PER FDOT INDEX NO 232	86.50	83.34 (W)	STA. 118+07.00 17' LT.
S-2	TYPE 'C' SURFACE INLET WITH TRAVERSABLE SLOTS (2) AND STEEL GRATE PER FDOT INDEX NO 232	86.50	83.17 (E) 83.17 (W)	STA. 118+07.00 17' RT.
S-3	MITERED END SECTION PER FDOT INDEX NO 272	N/A	83.00	STA. 118+07.00 51' RT.
S-4	TYPE 'C' SURFACE INLET WITH TRAVERSABLE SLOTS (2) AND STEEL GRATE PER FDOT INDEX NO 232	86.20	83.34 (E)	STA. 18+17.00 17' RT.
S-5	TYPE 'C' SURFACE INLET WITH TRAVERSABLE SLOTS (2) AND STEEL GRATE PER FDOT INDEX NO 232	86.20	83.17 (W) 83.17 (E)	STA. 18+17.00 17' LT.
S-6	MITERED END SECTION PER FDOT INDEX NO 272	N/A	83.00	STA. 18+17.00 51' LT.

LEGEND

THIS STANDARD LEGEND IS ALL INCLUSIVE AND MAY INCLUDE ITEMS NOT FOUND IN THIS SET OF PLANS

99	EXISTING ELEVATION CONTOUR		EXISTING LIGHT		EXISTING TREE TO BE REMOVED		NEW WATER METER		NEW DRAINAGE SWALE
95.3	EXISTING SPOT ELEVATION		EXISTING UTILITY POLE		EXISTING SHRUBS		NEW WATER MAIN WITH GATE VALVE & BOX		NEW 18" AREA DRAIN
X	EXISTING FENCE		EXISTING WOOD POWER POLE		EXISTING STRUCTURE		NEW FIRE HYDRANT ASSEMBLY		NEW STORM SURFACE INLET
SS	EXISTING SANITARY SEWER LINE & MANHOLE	TE	EXISTING TELEPHONE PEDESTAL		PROJECT BENCHMARK	MH#2	NEW MANHOLE AND SEWER MAIN		DIRECTION OF SURFACE DRAINAGE FLOW
W	EXISTING WATER LINE & VALVE		EXISTING GUY ANCHOR		NEW BUILDING	C/O INV=	NEW CLEANOUT		NEW STORM CURB INLET
ST	EXISTING STORM LINE & STRUCTURE	W	EXISTING WELL		NEW ASPHALTIC PAVEMENT	FF=	NEW FINISH FLOOR ELEVATION	S-10	NEW STORM STRUCTURE IDENTIFICATION
E	EXISTING ELECTRIC LINE		EXISTING WATER METER		NEW CONCRETE PAVEMENT	SF	NEW SILT FENCE LINE	100.00	NEW SPOT ELEVATION
OHW	EXISTING OVERHEAD UTILITY WIRES		EXISTING FIRE HYDRANT		NEW TRAFFIC FLOW ARROW		DRAINAGE DIVIDE		4' WIDE PAVED PATH
GAS	EXISTING GAS LINE		EXISTING TREE (SIZE & TYPE)	TB	NEW TREE BARRICADE	100	NEW ELEVATION CONTOUR		4' WIDE NATURAL SURFACE PATH

CLIENT: GREENTRUST GAINESVILLE, FLORIDA

JOB NO.: 01-268

SHEET NO.: C1.00

PROJECT: MADERA CLUSTER DEVELOPMENT PHASE I

SHEET TITLE: GRADING AND DRAINAGE SITE PLAN

DESIGNED BY: R.J. WALPOLE, E.I. DRAWN BY: C.E. POSADA CHECKED BY: R.P. CAUSSEAUX, P.E.

COMPUTER FILE: 01-268PC.DWG

DATE: DECEMBER 14, 2001

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Phone: (352) 331-1976 Fax: (352) 331-2476 mailbox@ce-civil.com

"ROAD" SCALE 1 in. = 1 in. OR 1 in. = 10 ft. 0 5 10 20 30 40 50 60 70 80 90 100 1" 2" 3" 4" 5" 6" 7" 8" 9" 10"

1" NOT HERE, INDICATES THAT THIS DRAWING IS NOT TO SCALE ACCORDING TO THE ORIGINAL

REVISIONS

DATE

SEAL ROBY P. CAUSSEAUX 39421

DATE 12/19/01

APPROVED BY

PLOT DATE: 12/10/01 TIME: 16:19

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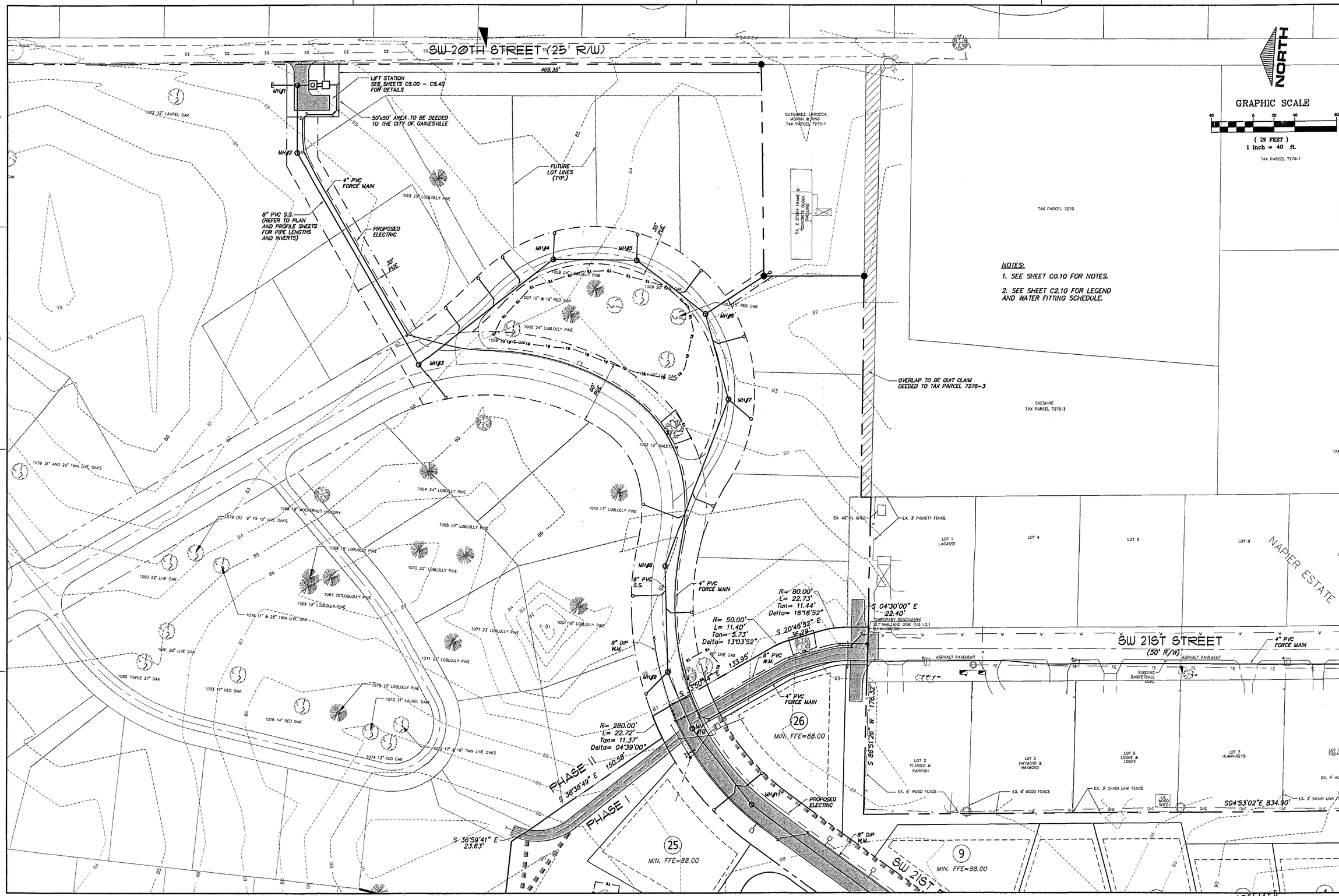

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GREENTRUST
GAINESVILLE, FLORIDA

JOB NO.: 01-268
SHEET NO.: C2.00

MADERA CLUSTER DEVELOPMENT PLAN

SHEET TITLE: WATER AND SANITARY SEWER SITE PLAN

DESIGNED BY: R.J. WALPOLE, E.I.
DRAWN BY: C.C. POSADA
CHECKED BY: R.P. CAUSSEAUX, P.E.

COMPUTER FILE: 01-268WS.DWG
DATE: DECEMBER 14, 2001

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HORIZ. SCALE: BAR IS ONE INCH ON ORIGINAL DRAWING
0 1" HORIZ. SCALE: 1" = 40'
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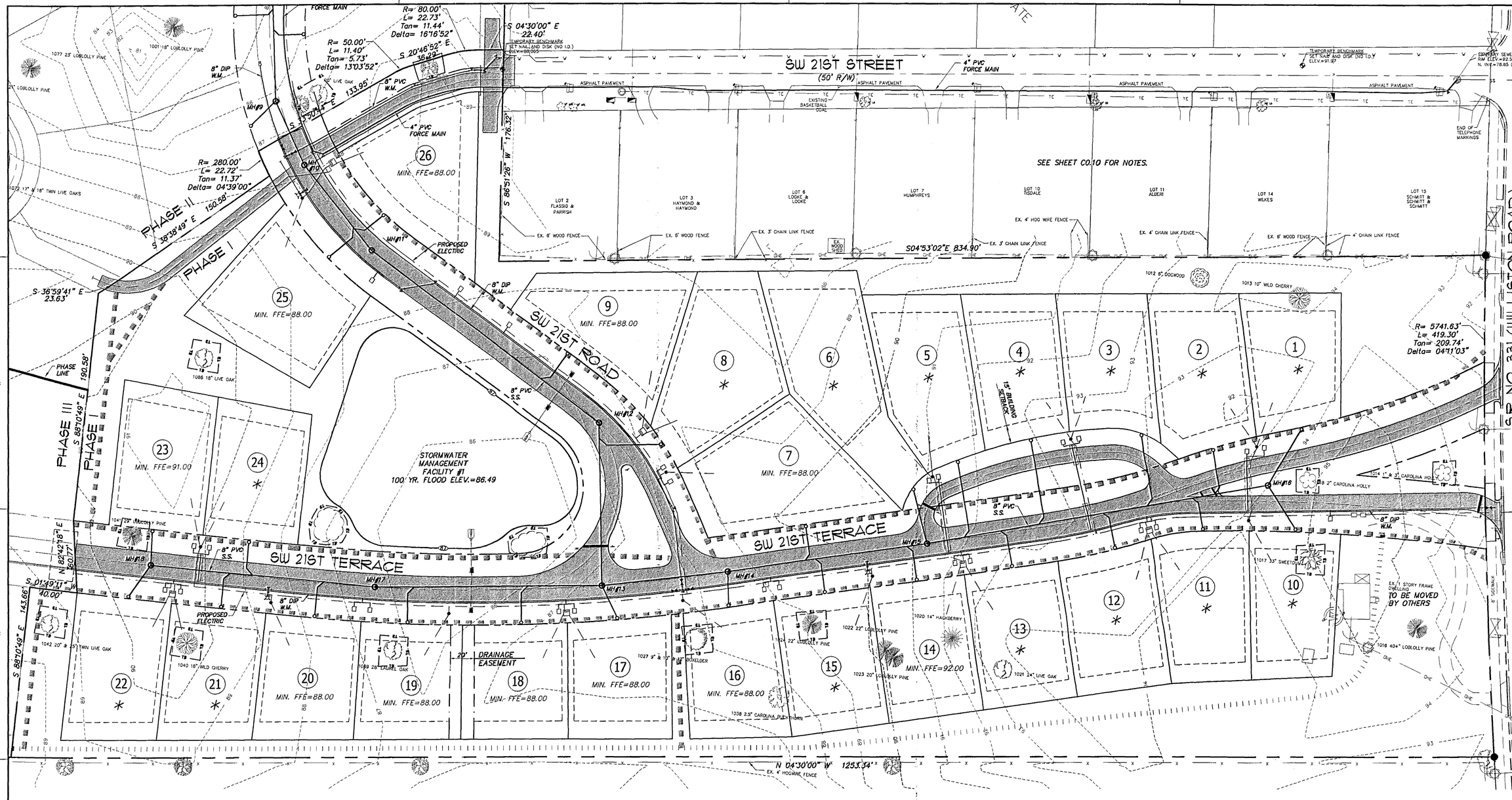
REVISIONS | DATE

SEAL: ROBT P. CAUSSEAUX 39421

DATE: 12/17/01

APPROVED BY: KGT Engr. 01-268WS 12/10/01 10:32



NOTE: FINISHED FLOOR ELEVATIONS SHOWN HEREON ARE SHOWN FOR THE PURPOSES OF ESTABLISHING MINIMUM FINISHED FLOOR ELEVATIONS TO PREVENT SEWAGE BACKFLOW. ALL LOTS WITH ✱ MUST HAVE A GRU APPROVED SEWAGE BACKFLOW PREVENTION DEVICE INSTALLED ON THE SANITARY SEWER LATERAL.

WATER FITTING SCHEDULE

① 1 – 2" BLOW-OFF ASSEMBLY	⑦ 1 – 8"x2" SADDLE 1 – 2" GATE VALVE AND BOX 2 – 5/8" WATER METER GANG ASSEMBLY
② 1 – 8"x8"x8" TEE W/REACTION BLOCK 2 – 8" GATE VALVE AND BOX	⑧ 1 – 8"x8"x8" TEE W/REACTION BLOCK 3 – 8" GATE VALVE AND BOX
③ 1 – 8"x8"x8" ANCHORING TEE W/REACTION BLOCK 1 – 6" GATE VALVE AND BOX 1 – FIRE HYDRANT ASSEMBLY	⑨ WET TAP EXIST. WATER LINE 1 – 8" GATE VALVE AND BOX
④ 1 – 8" 11.25° BEND W/REACTION BLOCK	⑩ 1 – 8" GATE VALVE AND BOX
⑤ 1 – 8"x2" SADDLE 1 – 2" GATE VALVE AND BOX 1 – 5/8" WATER METER GANG ASSEMBLY	⑪ REMOVE EXISTING BLOWOFF CONNECT TO EXIST. WATER LINE
⑥ 1 – 8" 45° BEND W/REACTION BLOCK	NOTE: ALL VALVES UNDER PAVEMENT SHALL BE RESILIENT WEDGE WITH A SQUARE OPERATING NUT.

LEGEND

THIS STANDARD LEGEND IS ALL INCLUSIVE AND MAY INCLUDE ITEMS NOT FOUND IN THIS SET OF PLANS

—99—	EXISTING ELEVATION CONTOUR		EXISTING LIGHT		EXISTING TREE TO BE REMOVED		NEW WATER METER		NEW DRAINAGE SWALE
99.5	EXISTING SPOT ELEVATION		EXISTING UTILITY POLE		EXISTING SHRUBS		NEW WATER MAIN WITH GATE VALVE & BOX		NEW 18" AREA DRAIN
—x—	EXISTING FENCE		EXISTING WOOD POWER POLE		EXISTING STRUCTURE		NEW FIRE HYDRANT ASSEMBLY		NEW STORM SURFACE INLET
—SS—	EXISTING SANITARY SEWER LINE & MANHOLE		EXISTING TELEPHONE PEDESTAL		PROJECT BENCHMARK	MH#2	NEW MANHOLE AND SEWER MAIN		DIRECTION OF SURFACE DRAINAGE FLOW
—W—	EXISTING WATER LINE & VALVE		EXISTING GUY ANCHOR		NEW BUILDING	C/O INV=	NEW CLEANOUT		NEW STORM CURB INLET
—ST—	EXISTING STORM LINE & STRUCTURE		EXISTING WELL		NEW ASPHALTIC PAVEMENT	FF=	NEW FINISH FLOOR ELEVATION	S-10	NEW STORM STRUCTURE IDENTIFICATION
—E—	EXISTING ELECTRIC LINE		EXISTING WATER METER		NEW CONCRETE PAVEMENT	—SF—	NEW SILT FENCE LINE	.100.00	NEW SPOT ELEVATION
—OHW—	EXISTING OVERHEAD UTILITY WIRES		EXISTING FIRE HYDRANT		NEW TRAFFIC FLOW ARROW		DRAINAGE DIVIDE		4' WIDE PAVED PATH
—GAS—	EXISTING GAS LINE		EXISTING TREE (SIZE & TYPE)	—TB—	NEW TREE BARRICADE	150	NEW ELEVATION CONTOUR		4' WIDE NATURAL SURFACE PATH

NORTH

GRAPHIC SCALE

40 0 20 40 80

(IN FEET)
1 inch = 40 ft.

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CLIENT: GREENTRUST GAINESVILLE, FLORIDA

JOB NO.: 01-268

SHEET NO.: C2.10

PROJECT: MADERA CLUSTER DEVELOPMENT PHASE I

SHEET TITLE: WATER AND SANITARY SEWER SITE PLAN

DESIGNED BY: R.J.WALPOLE, E.I.
DRAWN BY: C.J. PESSOLA
CHECKED BY: R.P. CAUSSEUAX, P.E.

COMPUTER FILE: 01-268WS.DWG

DATE: DECEMBER 14, 2001

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Engineers Surveyors Planners
6011 NW 1st Place Gainesville, Florida 32607
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REVISIONS

DATE

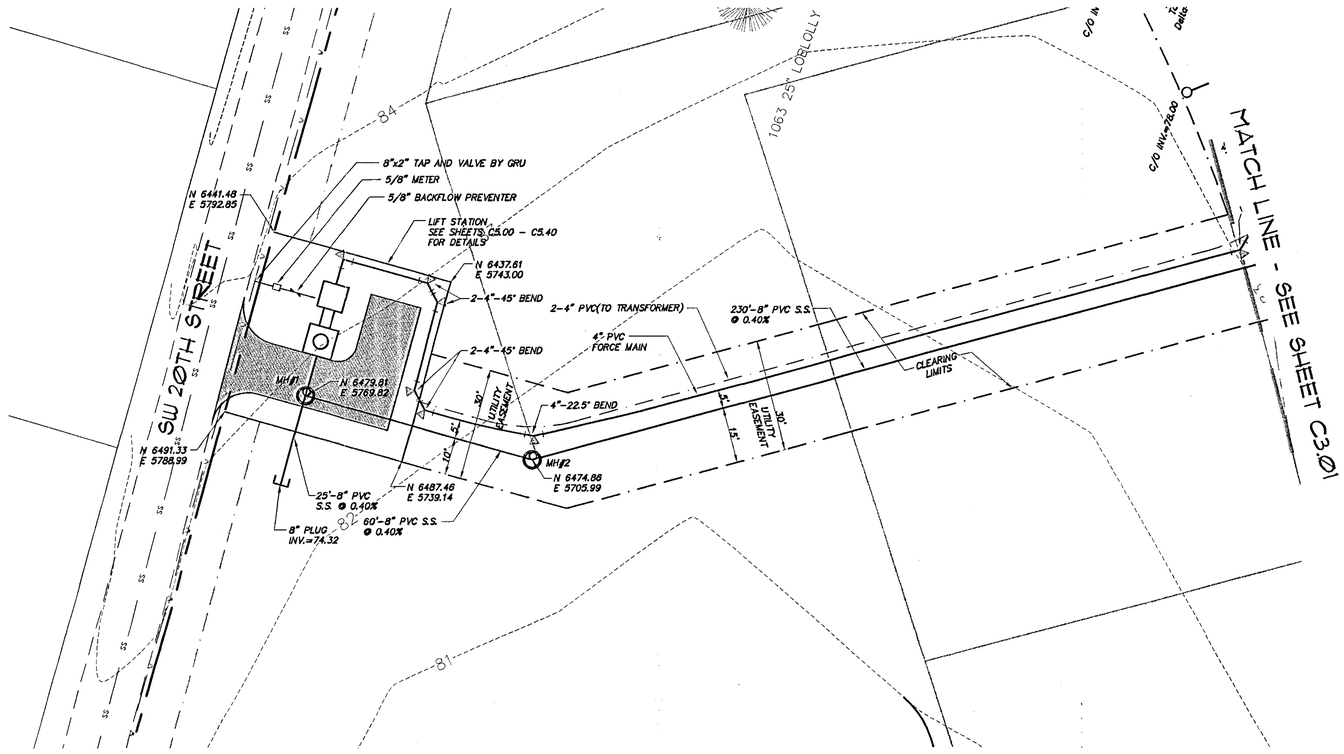
SEAL: ROBERT P. CAUSSEAUX 39421

DATE: 12/12/01

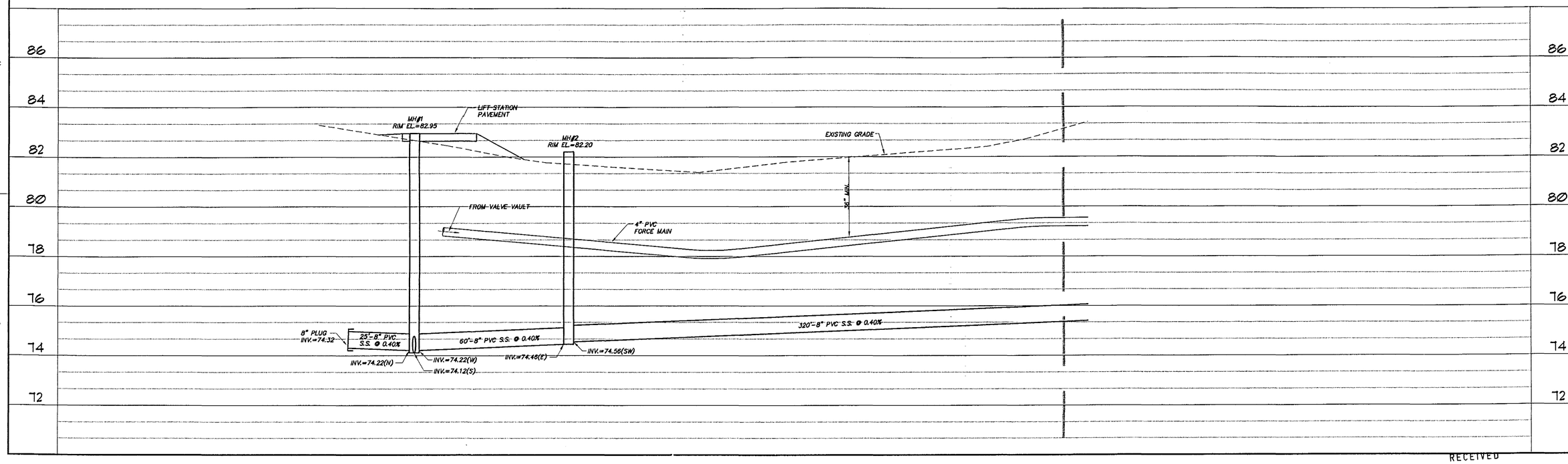
APPROVED BY: R.P.C.

PROJECT NO.: 01-268WS

DATE: OCT. 01 1999



SCALE: 1" = 20' HORIZ.
1" = 2' VERT.



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CLIENT: GREENTRUST GAINESVILLE, FLORIDA
JOB NO.: 01-268
SHEET NO.: C3.00
PROJECT: MADERA CLUSTER DEVELOPMENT PHASE I
SHEET TITLE: SANITARY SEWER AND ROADWAY PLAN AND PROFILE
DESIGNED BY: R.J.WALPOLE, E.I.
DRAWN BY: C.C. POSADA
CHECKED BY: R.P.CAUSSEAUX, P.E.
COMPUTER FILE: 01-268PP.DWG
DATE: DECEMBER 14, 2001

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DATE

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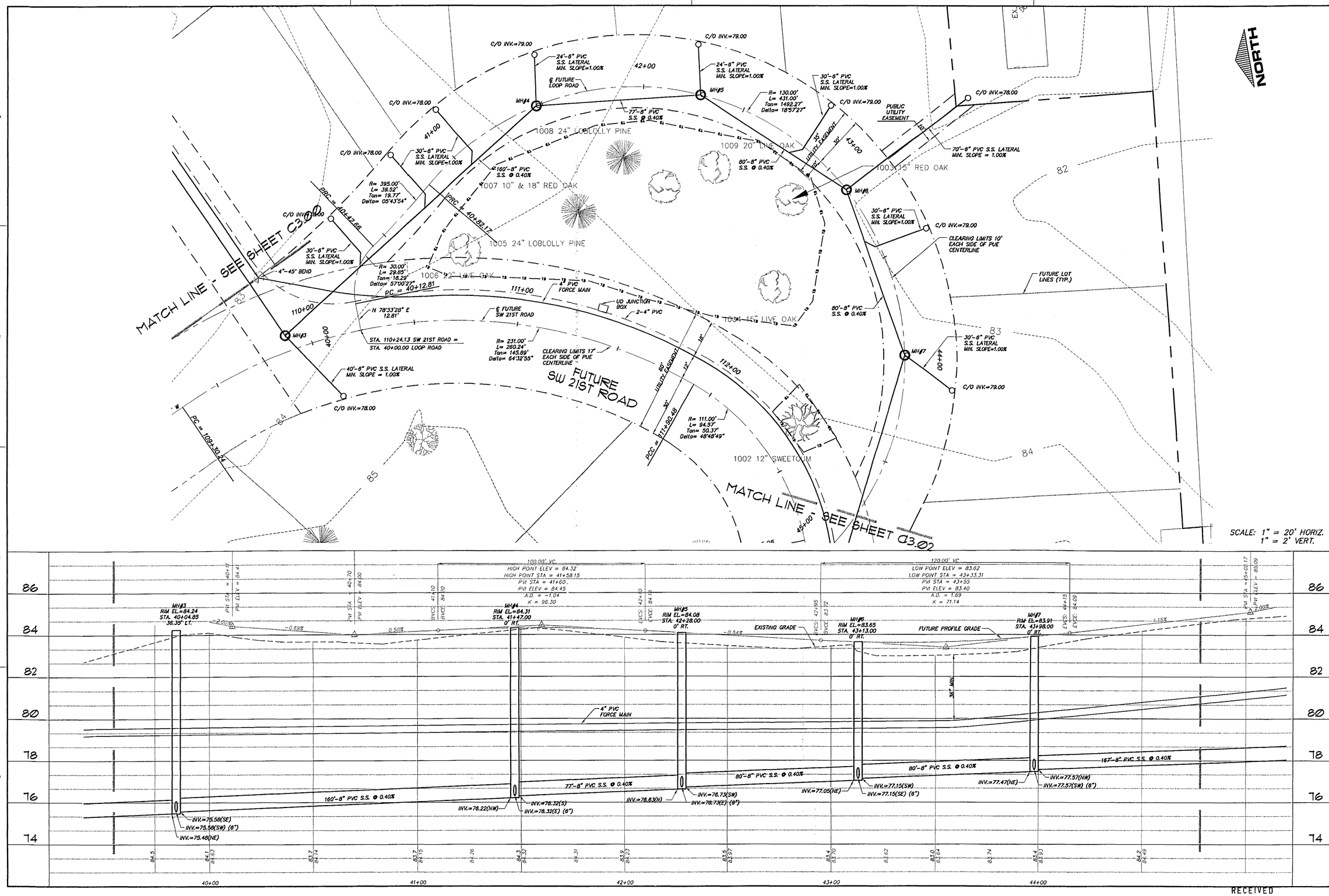
DATE: 12/12/01
APPROVED BY: R.P. Causseaux
Jr. P.E. No. 24576
02/10/01 15:50



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CLIENT: GREENTRUST GAINESVILLE, FLORIDA

JOB NO.: 01-268 SHEET NO.: C3.01

PROJECT: MARTERA CLUSTER DEVELOPMENT PHASE I

SHEET TITLE: SANITARY SEWER AND ROADWAY PLAN AND PROFILE

DESIGNED BY: R.J.WALPOLE, E.I.
DRAWN BY: C.C. POSADA
REVIEWED BY: R.P.CAUSSEUAX, P.E.

COMPUTER FILE: 01-268PP.DWG
DATE: DECEMBER 14, 2001

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DATE 12/17/01
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PROJ. ENGR. 01-268pp
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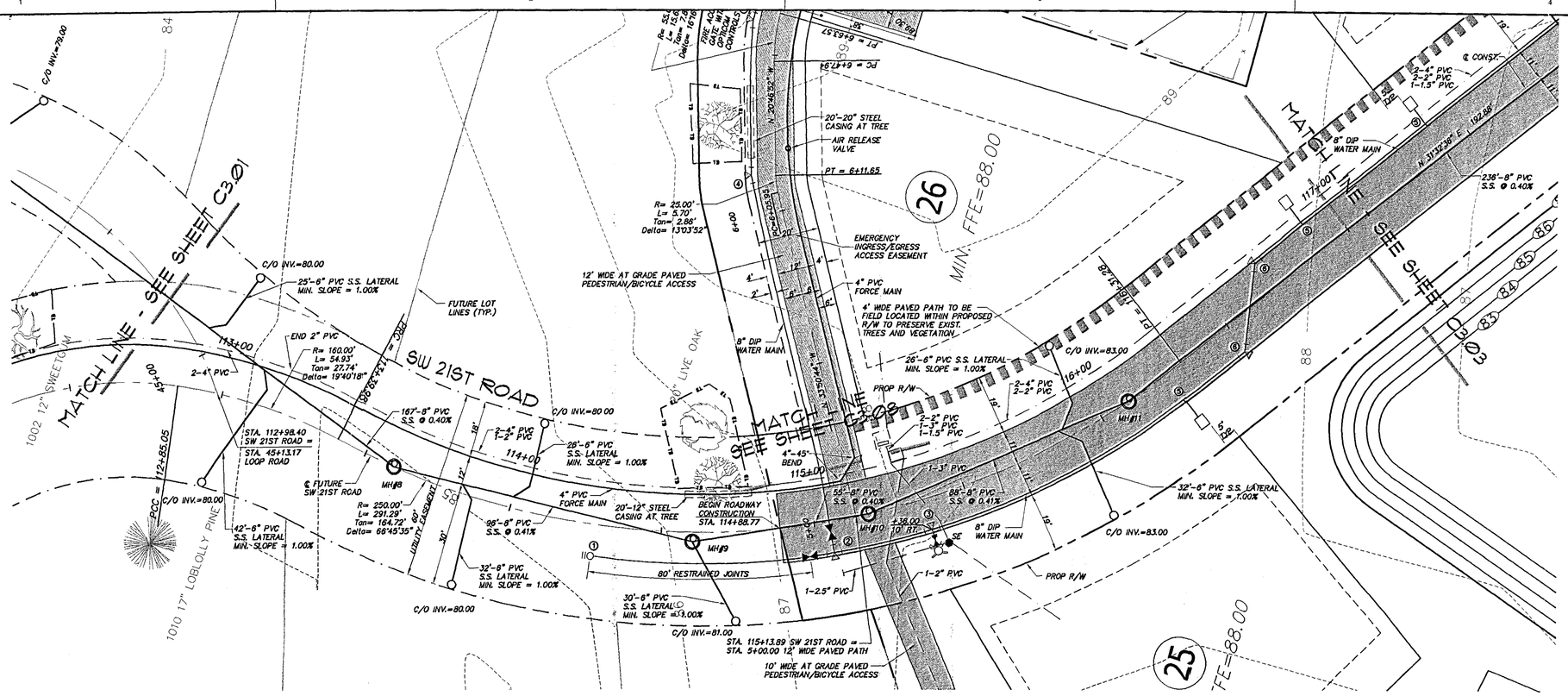
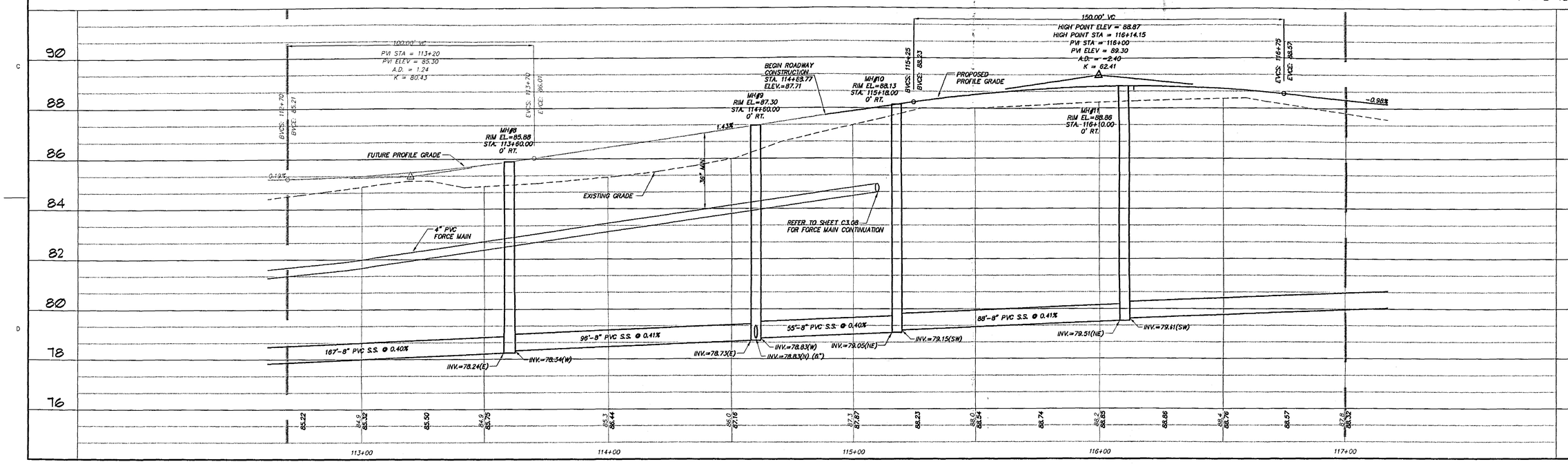


NOTE: REFER TO SHEET C2.10 FOR WATER FITTING SCHEDULE

SCALE: 1" = 20' HORIZ.
1" = 2' VERT.



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CLIENT:	GREENTRUST GAINESVILLE, FLORIDA
JOB NO.:	01-268
SHEET NO.:	C3.02
PROJECT:	NADER'S CLUSTER DEVELOPMENT PHASE I
SHEET TITLE:	SANITARY SEWER AND ROADWAY PLAN AND PROFILE
DESIGNED BY:	R.J. WALPOLE, E.I.
DRAWN BY:	C.C. POSADA
CHECKED BY:	R.F. CAUSSEAUX, P.E.
DATE:	DECEMBER 14, 2001
COMPUTER FILE:	01-268PP.DWG

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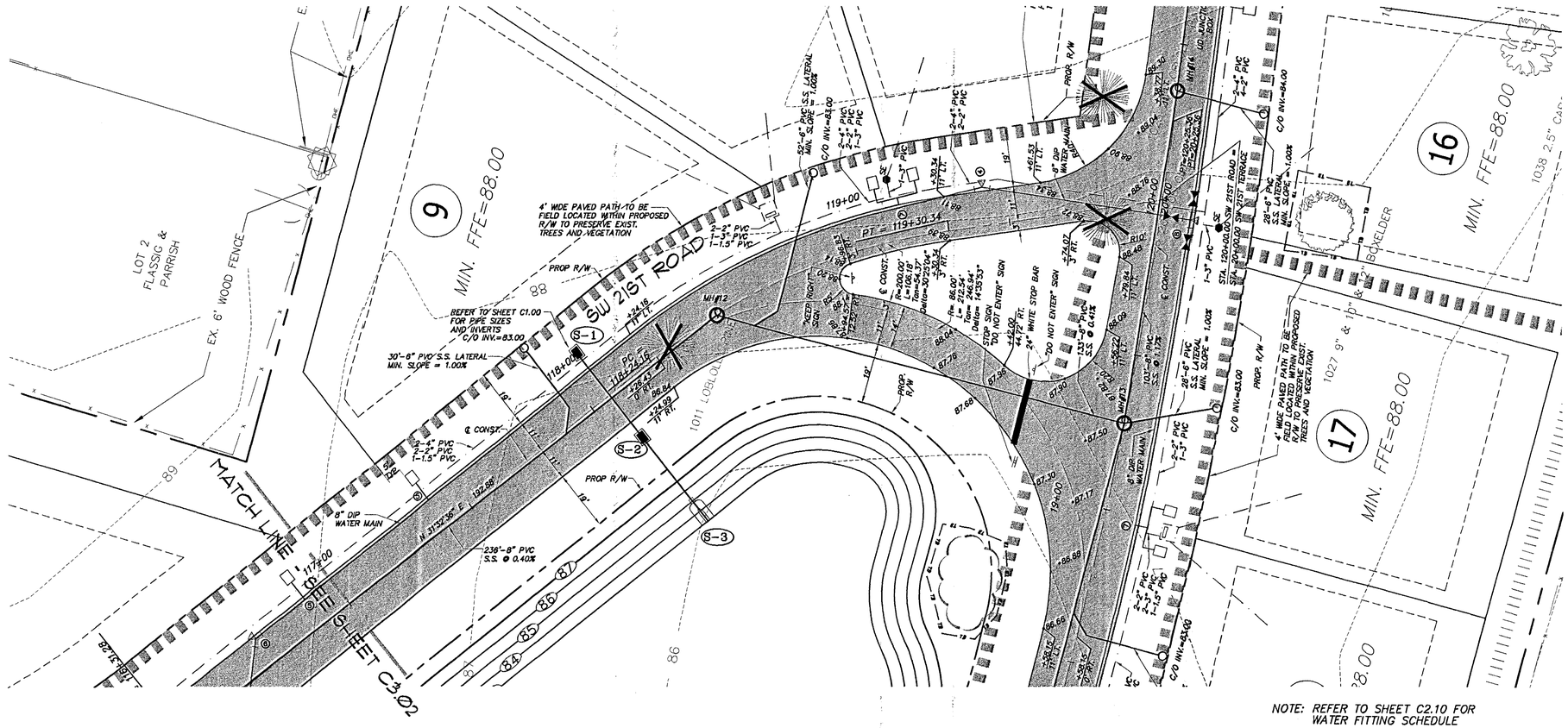
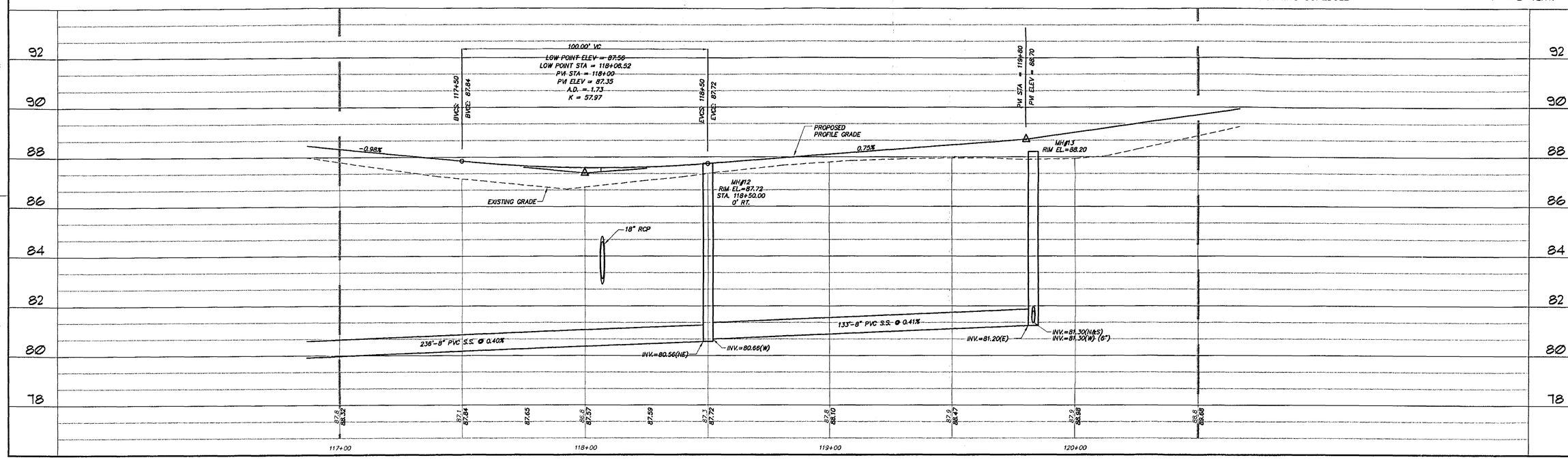
DATE: 12/12/01
APPROVED BY: [signature]
PLOT DATE: 12/12/01 01-268pp
DRZ 19.19 19.00



NOTE: REFER TO SHEET C2.10 FOR WATER FITTING SCHEDULE

SCALE: 1" = 20' HORIZ.
1" = 2' VERT.



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CLIENT: GREENTRUST GAINESVILLE, FLORIDA

JOB NO.: 01-268

SHEET NO.: C3.03

PROJECT: MADERA CLUSTER DEVELOPMENT PHASE 1

SHEET TITLE: SANITARY SEWER AND ROADWAY PLAN AND PROFILE

DESIGNED BY: R.J. WALDRON, E.I.

DRAWN BY: C.C. POSADA

CHECKED BY: R.P. CAUSSEUAX, P.E.

COMPUTER FILE: 01-268PP.DWG

DATE: DECEMBER 14, 2001

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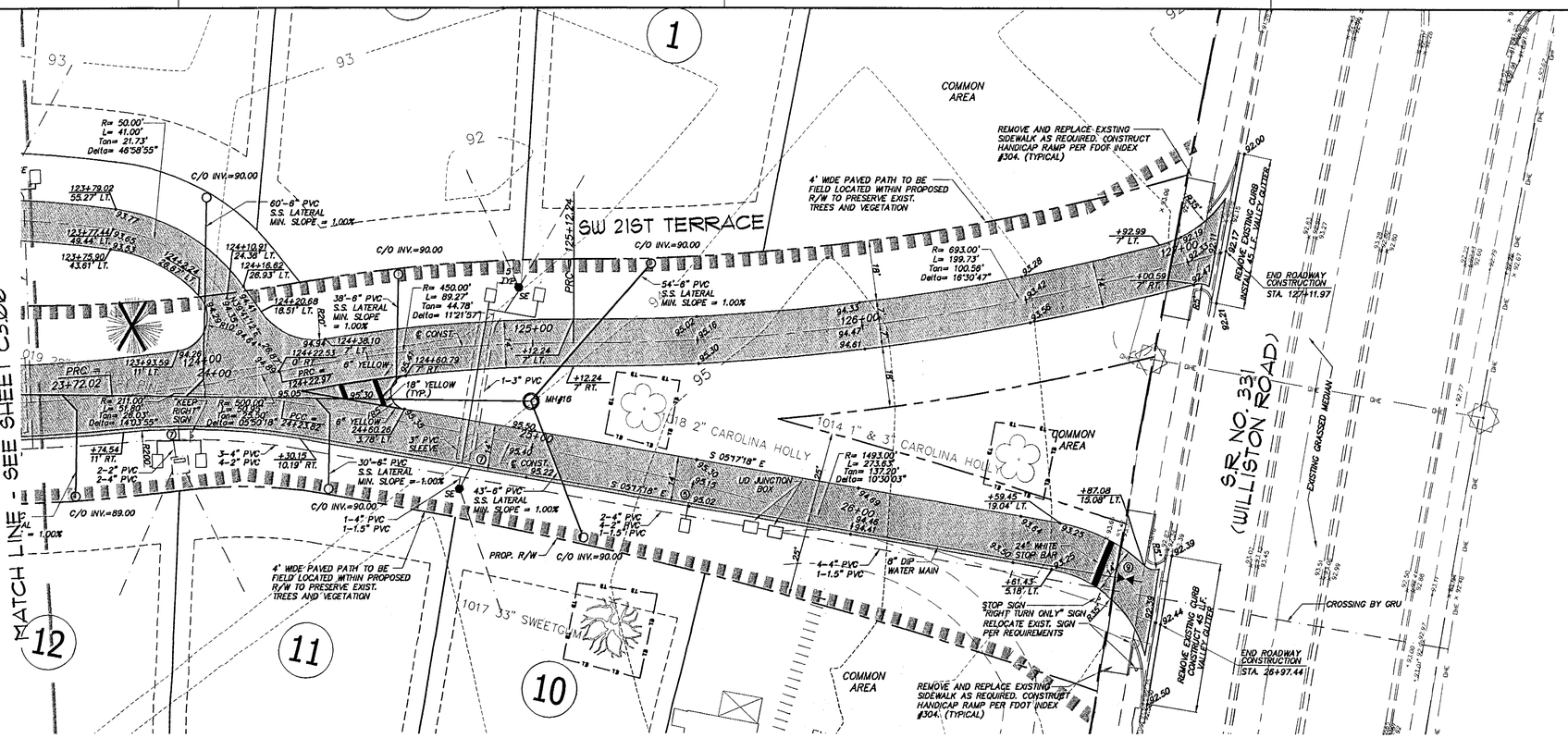
DATE: 12/14/01

APPROVED BY: R.P. CAUSSEUAX, P.E.

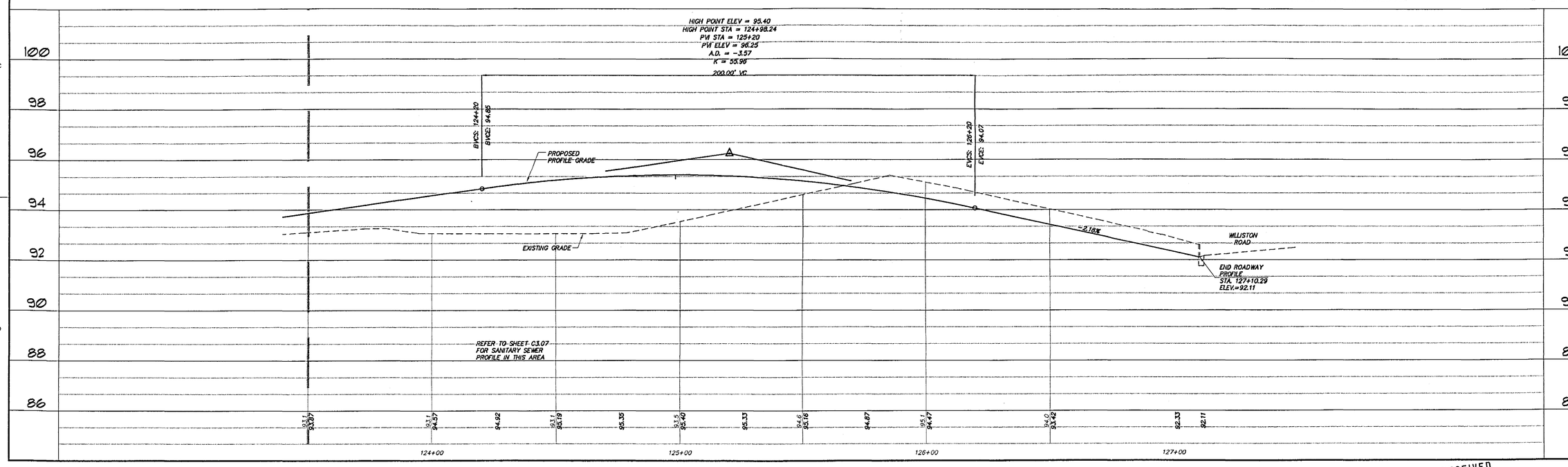
PLOT SCALE: 1"=20'Horiz. 1"=2'Vert.

PLOT DATE: 12/10/01 15:00



NOTE: REFER TO SHEET C2.10 FOR WATER FITTING SCHEDULE

SCALE: 1" = 20' HORIZ.
1" = 2' VERT.



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CLIENT: GREENTRUST GAINESVILLE, FLORIDA
JOB NO.: 01-268
SHEET NO.: C3.04
PROJECT: MADERA CLUSTER DEVELOPMENT PHASE 1
SHEET TITLE: SANITARY SEWER AND ROADWAY PLAN AND PROFILE
DESIGNED BY: R.J.WALPOLE, E.I.
DRAWN BY: C.C. POSADA
CHECKED BY: R.P.CAUSSEAUX, P.E.
COMPUTER FILE: 01-268PP.DWG
DATE: DECEMBER 14, 2001

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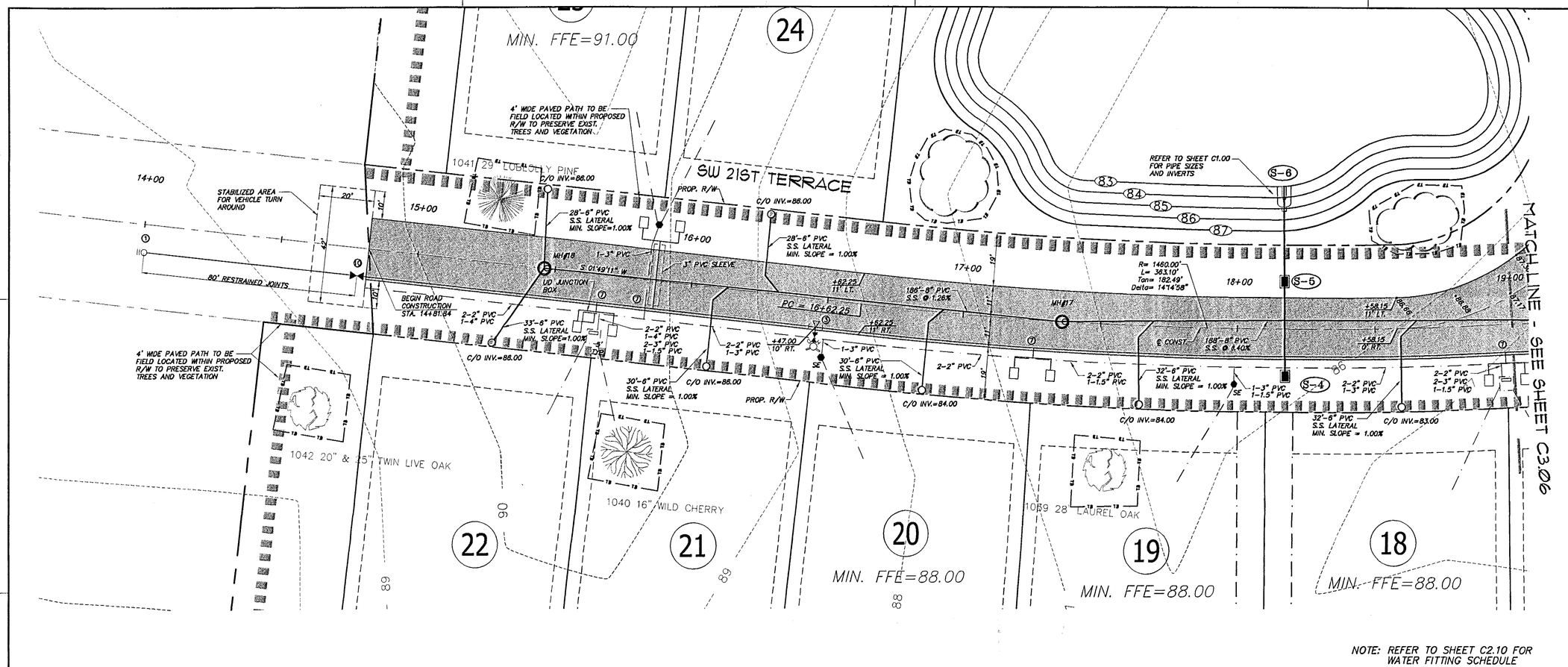
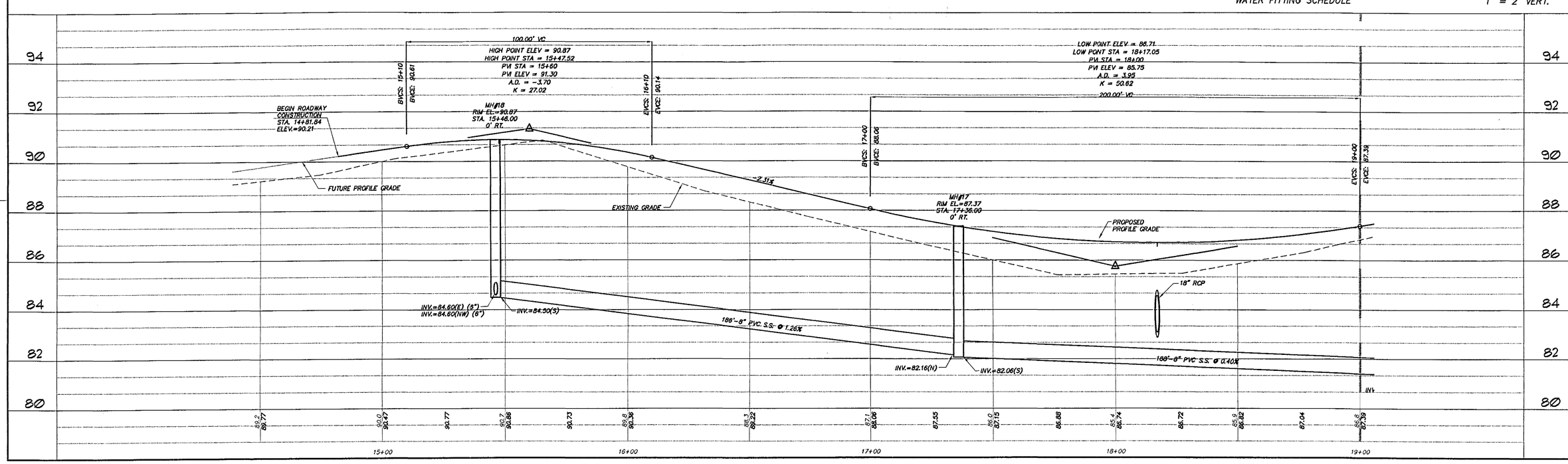
DATE: 12/12/01
APPROVED BY:
FDOT ID/CST: 01-268PP
02/10/01 10:00



NOTE: REFER TO SHEET C2.10 FOR WATER FITTING SCHEDULE

SCALE: 1" = 20' HORIZ.
1" = 2' VERT.



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CLIENT: GREENTRUST GAINESVILLE, FLORIDA
JOB NO.: 01-268
SHEET NO.: C3.05

PROJECT: MADERA CLUSTER DEVELOPMENT PHASE I
SHEET TITLE: SANITARY SEWER AND ROADWAY PLAN AND PROFILE

DESIGNED BY: R.J. WALPOLE, E.I.
DRAWN BY: P.C. PICADA
CHECKED BY: R.P. CAUSSEUAX, P.E.

COMPUTER FILE: 01-268PP.DWG
DATE: DECEMBER 14, 2001

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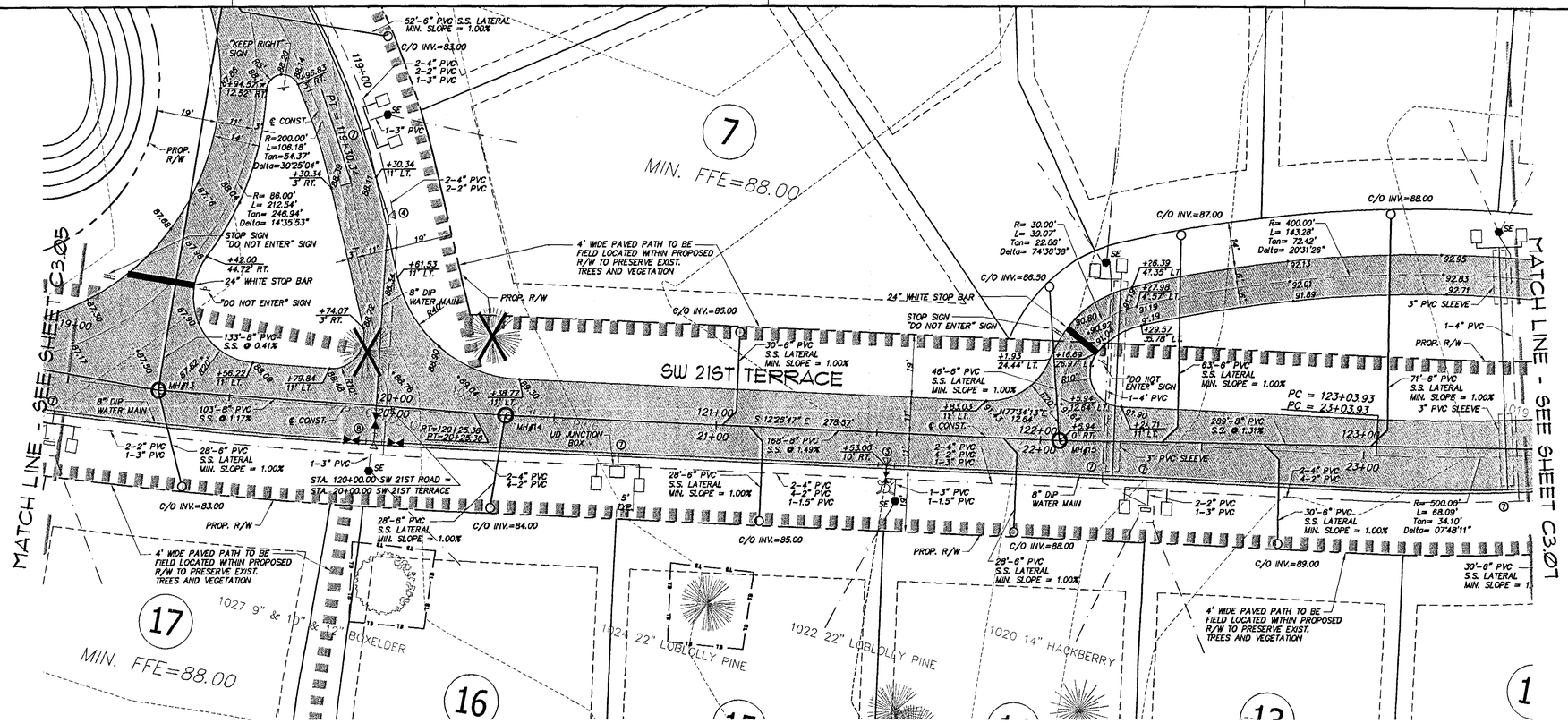
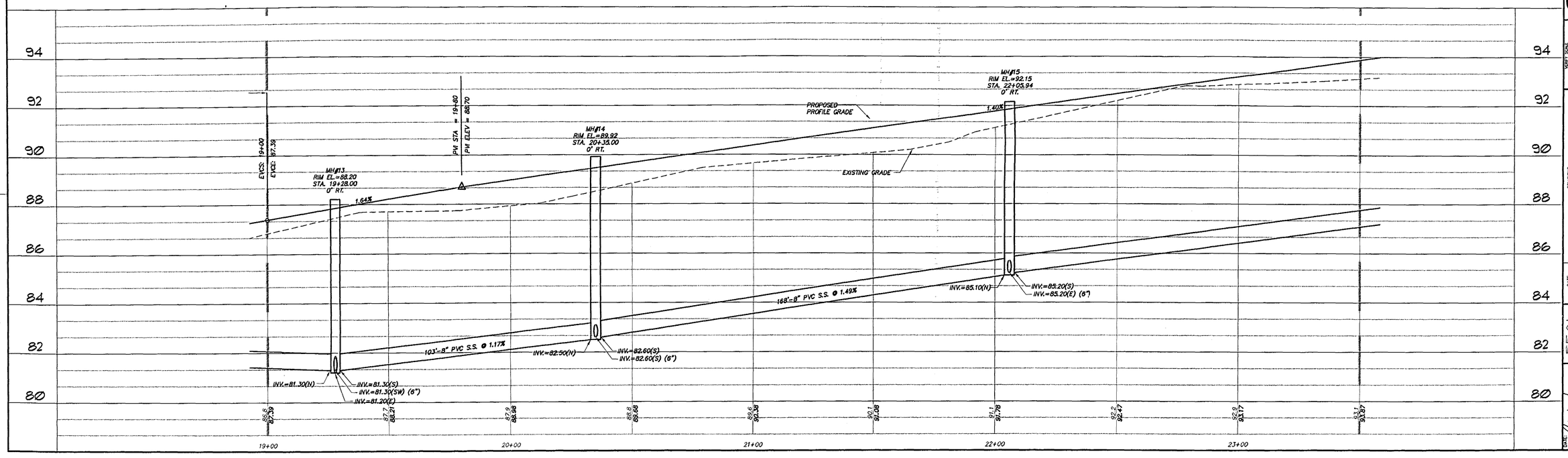
APPROVED BY: R.P. Caussaux
12/10/01 18:00



NOTE: REFER TO SHEET C2.10 FOR WATER FITTING SCHEDULE

SCALE: 1" = 20' HORIZ.
1" = 2' VERT.



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CLIENT: GREEN TRUST GAINESVILLE, FLORIDA
JOB NO.: 01-268
SHEET NO.: C3.06
PROJECT: MADERA CLUSTER DEVELOPMENT PHASE I
SHEET TITLE: SANITARY SEWER AND ROADWAY PLAN AND PROFILE
DESIGNED BY: R.J.WALPOLE, E.I.
DRAWN BY: J.CLAYSON
CHECKED BY: R.P.CAUSSEUAX, P.E.
COMPUTER FILE: 01-268PP.DWG
DATE: DECEMBER 14, 2001

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DATE

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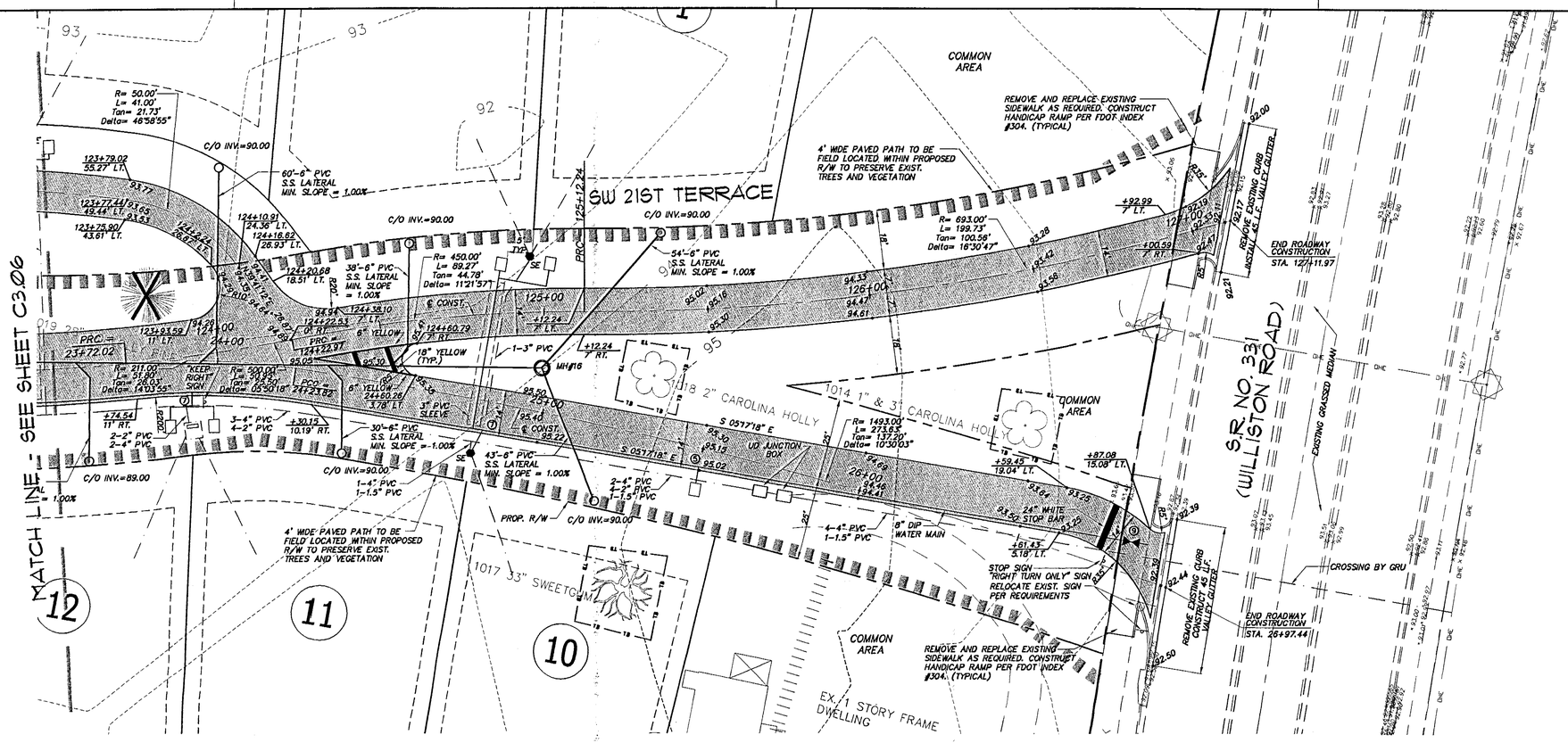
DATE: 12/12/01
APPROVED BY: R.P. Causseaux
Plot By: gu_clayson
12/10/01 16:50


SW 21ST TERRACE
(WILLISTON ROAD) S.R. NO. 331
MATCH LINE - SEE SHEET C3.06
COMMON AREA
NORTH
REMOVE AND REPLACE EXISTING SIDEWALK AS REQUIRED. CONSTRUCT HANDICAP RAMP PER FDOT INDEX #304. (TYPICAL)
4' WIDE PAVED PATH TO BE FIELD LOCATED WITHIN PROPOSED R/W TO PRESERVE EXIST. TREES AND VEGETATION
END ROADWAY CONSTRUCTION STA. 127+11.97
END ROADWAY CONSTRUCTION STA. 26+97.44
REMOVE EXISTING CURB INSTALL E.I.F. VALLEY GUTTER
EXISTING GRASSED MEDIAN
CROSSING BY GRU
STOP SIGN "RIGHT TURN ONLY" SIGN. RELOCATE EXIST. SIGN PER REQUIREMENTS
24" WHITE STOP BAR
8" DIP WATER MAIN
1014 1" & 3" CAROLINA HOLLY
1018 2" CAROLINA HOLLY
1017 33" SWEETGUM
EX. 1 STORY FRAME DWELLING
PROP. R/W
C/O INV.=90.00
C/O INV.=89.00
60'-6" PVC S.S. LATERAL MIN. SLOPE = 1.00%
39'-6" PVC S.S. LATERAL MIN. SLOPE = 1.00%
54'-6" PVC S.S. LATERAL MIN. SLOPE = 1.00%
43'-6" PVC S.S. LATERAL MIN. SLOPE = 1.00%
30'-6" PVC S.S. LATERAL MIN. SLOPE = 1.00%
MH#16
1-3" PVC
1-4" PVC
1-1.5" PVC
2-4" PVC
2-2" PVC
2-4" PVC
1-2" PVC
3-4" PVC
4-2" PVC
2-2" PVC
2-4" PVC
4-4" PVC
1-1.5" PVC
3" PVC SLEEVE
18" YELLOW (TYP.)
6" YELLOW
"KEEP RIGHT" SIGN
UD JUNCTION BOX
S 05°17'18" E
R= 693.00' L= 199.73' Tan= 100.56' Delta= 16°30'47"
R= 1493.00' L= 273.65' Tan= 137.20' Delta= 10°30'03"
R= 450.00' L= 89.27' Tan= 44.78' Delta= 11°21'37"
R= 50.00' L= 41.00' Tan= 21.73' Delta= 46°58'55"
R= 211.00' L= 51.93' Tan= 26.09' Delta= 14°03'55"
R= 500.00' L= 213.23' Tan= 108.00' Delta= 05°30'18"
PRC= 23+72.02
PRC= 24+23.82
PRC= 24+97.84
PRC= 25+12.24
PRC= 25+20.00
PRC= 26+00.00
PRC= 26+97.44
PRC= 27+11.97
123+79.02 55.27' LT.
123+77.44 49.44' LT.
123+75.90 43.61' LT.
123+93.59 11' LT.
124+10.91 24.36' LT.
124+16.62 28.93' LT.
124+20.68 18.51' LT.
124+38.10 7' LT.
124+22.53 8' RT.
124+22.97 8' LT.
124+60.79 8' RT.
124+60.26 3.78' LT.
+74.54 11' RT.
+30.15 10.19' RT.
+12.24 7' RT.
+92.99 7' LT.
+00.99 7' RT.
+87.08 15.08' LT.
+59.45 19.04' LT.
+61.43 5.18' LT.
R=0.24%
R=0.19%
R=0.31%
R=0.24%
R=0.19%
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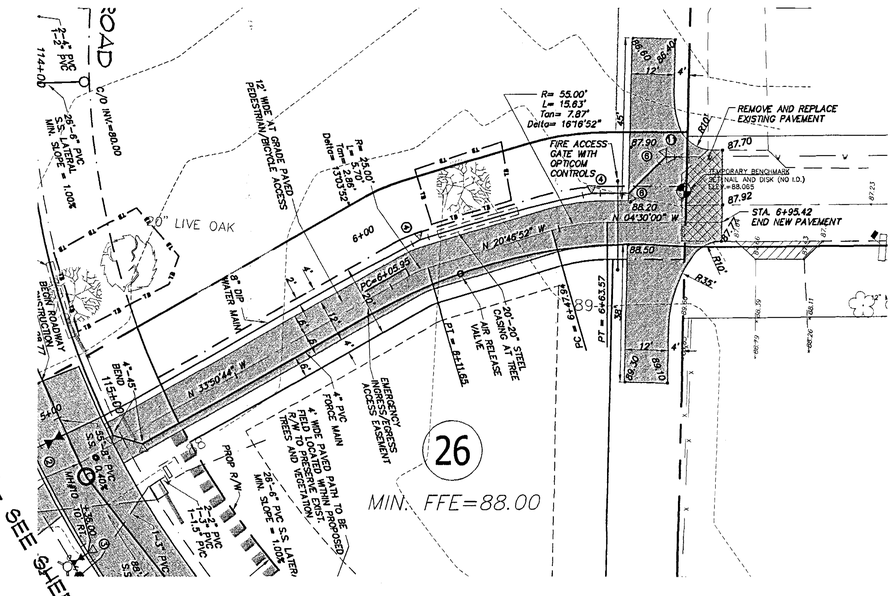
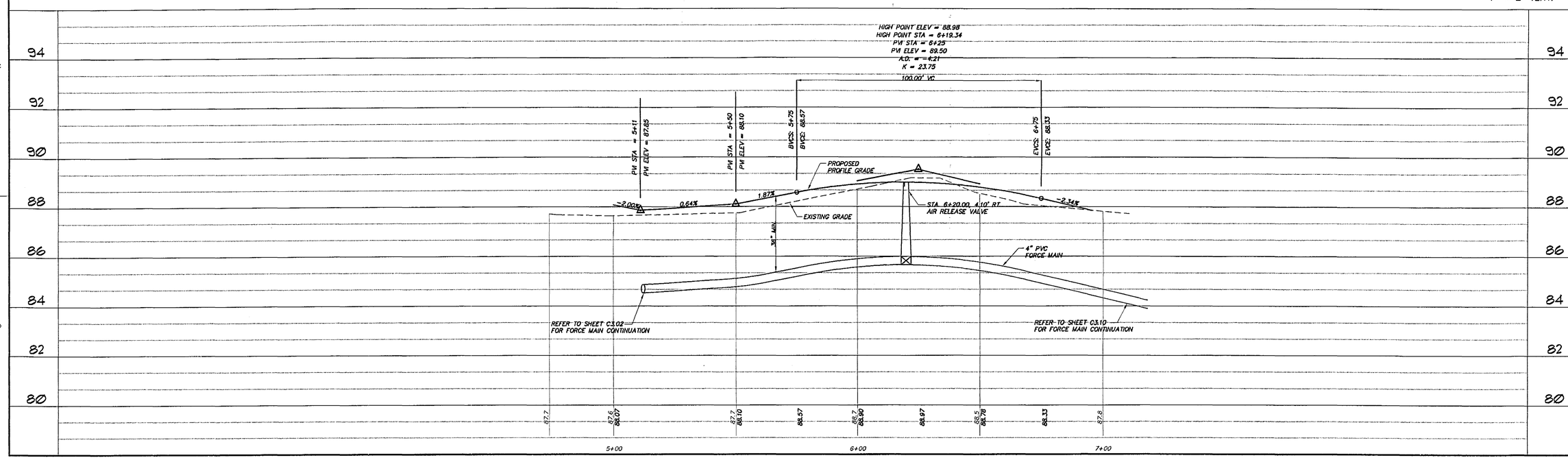
R=0.24%
R=0.19%
R=0.31%



NORTH

NOTE: REFER TO SHEET C2.10 FOR WATER FITTING SCHEDULE

SCALE: 1" = 20' HORIZ.
1" = 2' VERT.



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CLIENT: GREENTRUST GAINESVILLE, FLORIDA
JOB NO.: 01-268
SHEET NO.: C3.08

PROJECT: MADERA CLUSTER DEVELOPMENT PHASE I
SHEET TITLE: SANITARY SEWER AND ROADWAY PLAN AND PROFILE

COMPUTER FILE: 01-268PP.DWG
DATE: DECEMBER 14, 2001
DESIGNED BY: R.J. WALPOLE, E.I.
DRAWN BY: D.J. DEGADA
CHECKED BY: R.P. CAUSSEUAX, P.E.

CE Causseaux & Ellington, Inc.
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DATE

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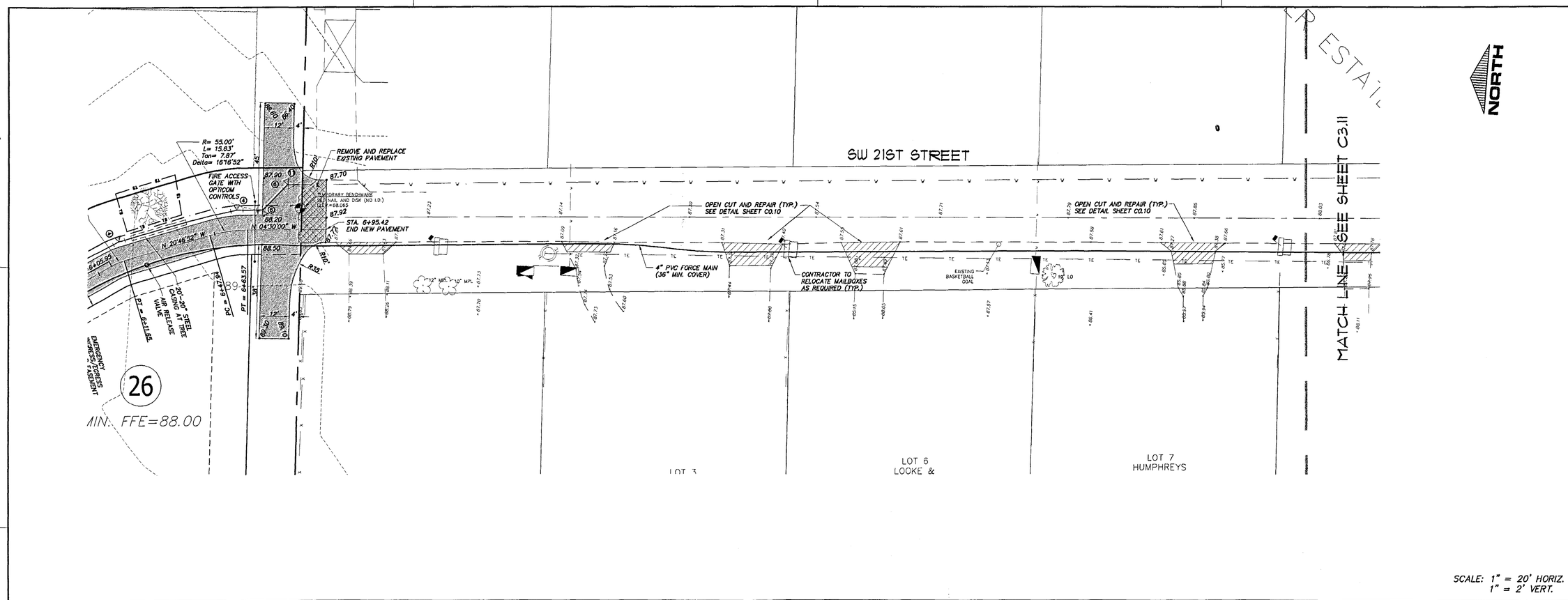
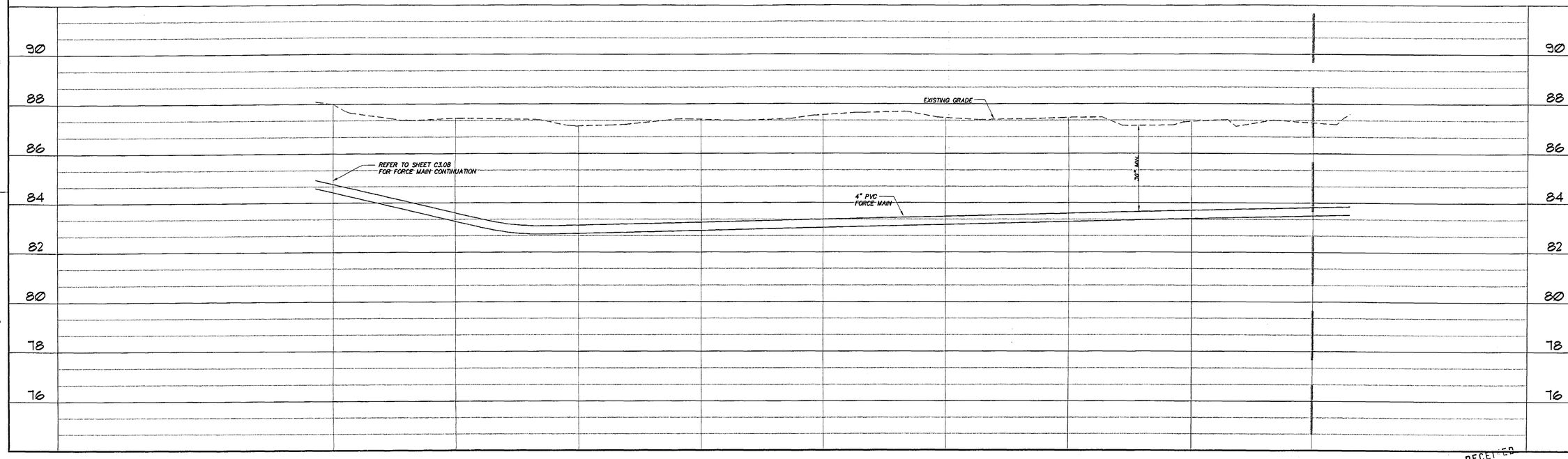
DATE: 12/17/01
APPROVED BY: R.P. Causseaux, Jr. P.E. 12/17/01
01-268pp
12/17/01



SCALE: 1" = 20' HORIZ.
1" = 2' VERT.



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CLIENT: GREENTRUST GAINESVILLE, FLORIDA
JOB NO.: 01-268
SHEET NO.: C3.10
PROJECT: MADERA CLUSTER DEVELOPMENT PHASE I
SHEET TITLE: OFF-SITE FORCE MAIN PLAN AND PROFILE
DESIGNED BY: R.J.WALPOLE, E.I.
DRAWN BY: C.J.VERSSIDA
CHECKED BY: R.P.CAUSSEUAX, P.E.
COMPUTER FILE: 01-268PP.DWG
DATE: DECEMBER 14, 2001

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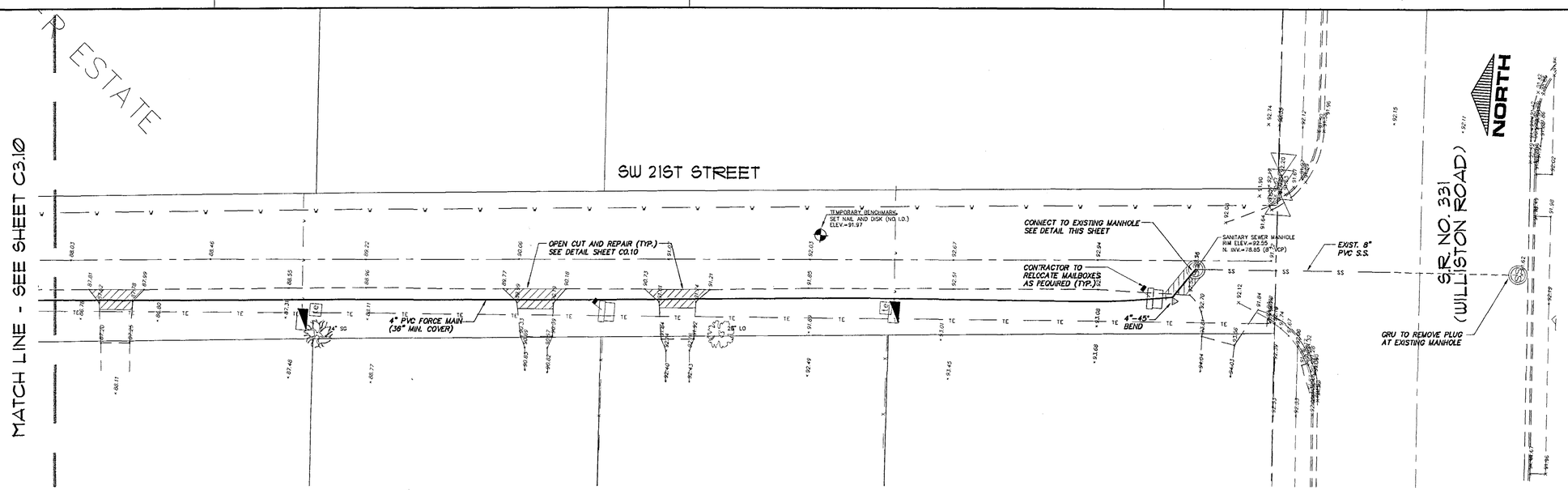
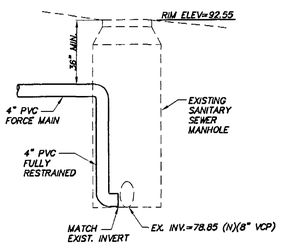
REVISIONS
DATE
SEAL
DATE 12/14/01
APPROVED BY
PLOT DATE 12/10/01 10:03

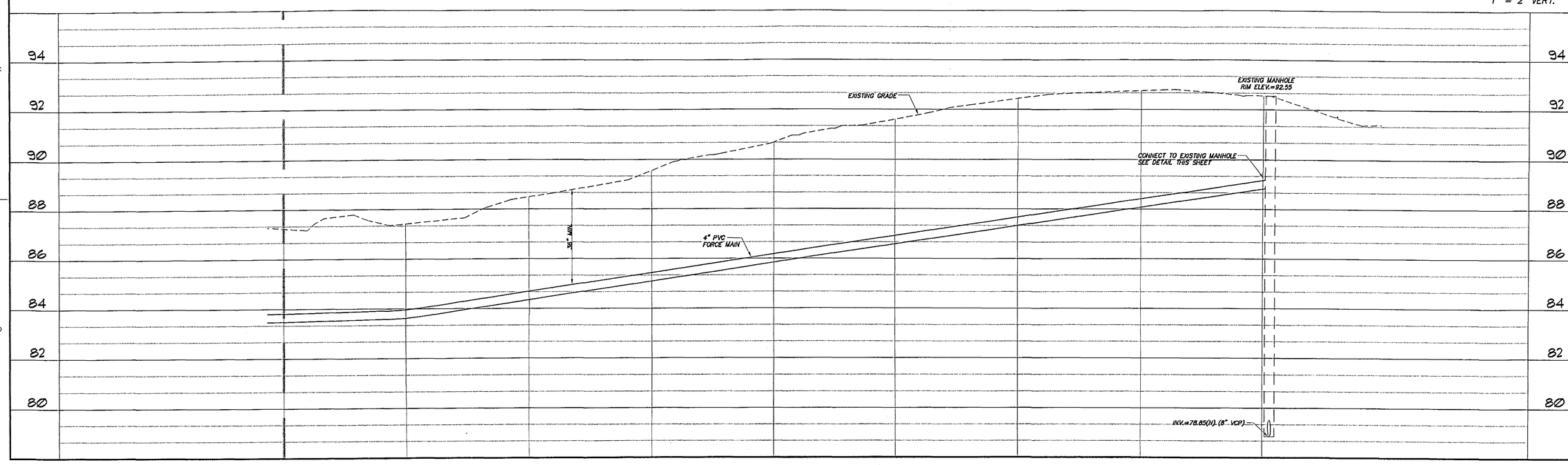




MANHOLE CONNECTION DETAIL

NTS

SCALE: 1" = 20' HORIZ.
1" = 2' VERT.



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SHEET NO.: C3.11
PROJECT: MADERA CLUSTER DEVELOPMENT PHASE I
SHEET TITLE: OFF-SITE FORCE MAIN PLAN AND PROFILE
DESIGNED BY: R.J. WOOLSEY, E.I.
DRAWN BY: C.C. POSADA
CHECKED BY: R.P. CAUSSEAUX, P.E.
COMPUTER FILE: 01-268PP.DWG
DATE: DECEMBER 14, 2001

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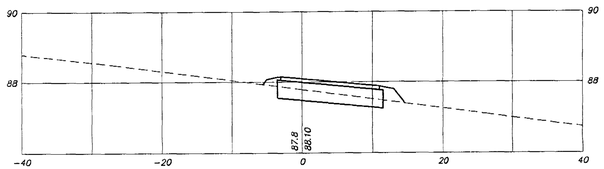
Phone: (352) 331-1976 Fax: (352) 331-2476 mailbox@ce-civil.com

NOT TO SCALE
BAR IS ON BLACK ON ORIGINAL DRAWING
0 1" IF NOT 1" THEN ADJUST SCALES ACCORDINGLY.

REVISIONS
DATE
SEAL
APPROVED BY: R.P.C.
PLOT ID: C.P.
12/19/01 01-268pp
DATE: 12/19/01

119+00



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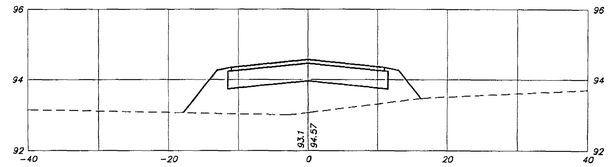

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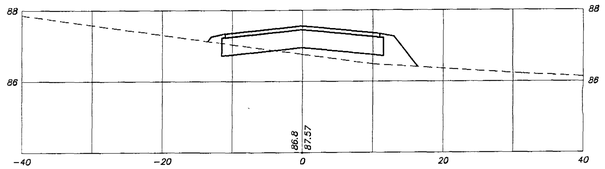

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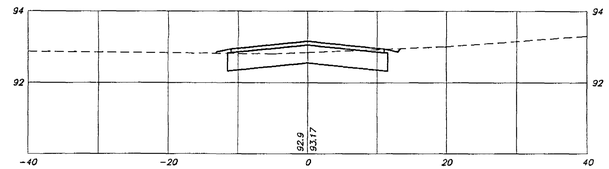

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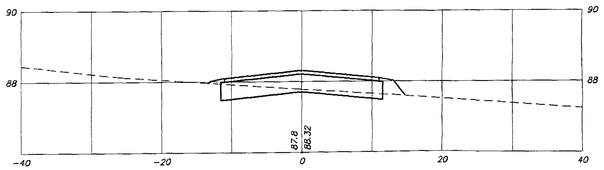

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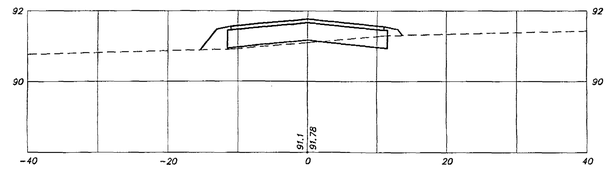

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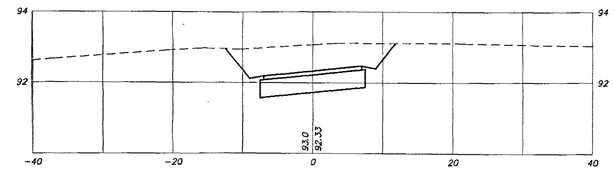

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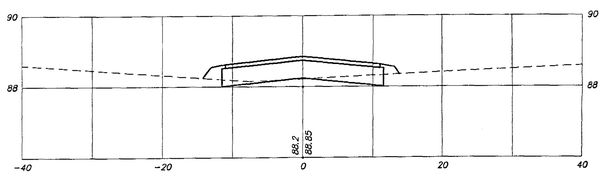

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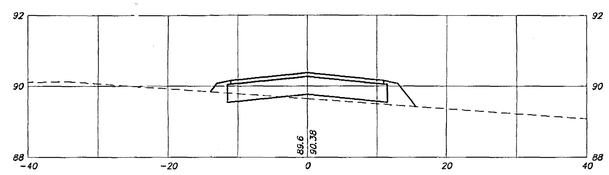

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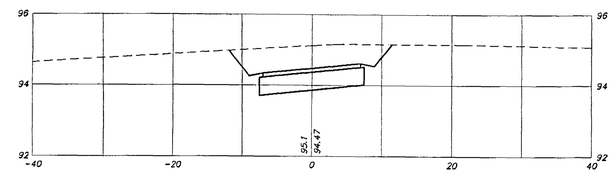

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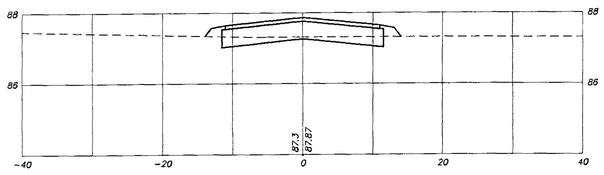

SW 21ST ROAD

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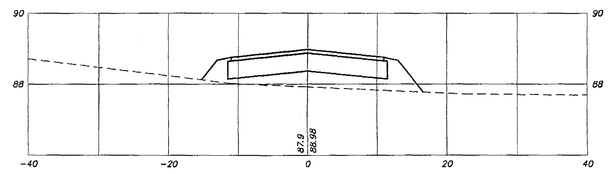
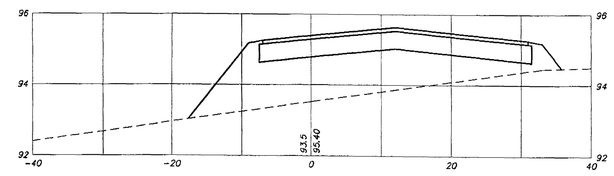


SW 21ST ROAD

125+00



SW 21ST TERRACE

SCALE: 1" = 10' HORIZ.
1" = 2' VERT.

RECEIVED
DEC 19 2001
PAL

CLIENT: GREENTRUST GAINESVILLE, FLORIDA

JOB NO.: 01-268 SHEET NO.: C4.00

PROJECT: MADERA CLUSTER DEVELOPMENT PHASE I

SHEET TITLE: ROADWAY CROSS SECTIONS

DESIGNED BY: R.J.WAYDOLE, E.I.
DRAWN BY: C.C. POSADA
CHECKED BY: R.P.CAUSSEAUX, P.E.

COMPUTER FILE: 01-268CS.DWG
DATE: DECEMBER 14, 2001

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GRAPH SCALE: BAR ON DRAWING ON ORIGINAL DRAWING 0 1" 2"
IF NOT ONE INCH ON THIS SHEET, SCALES ACCORDINGLY.

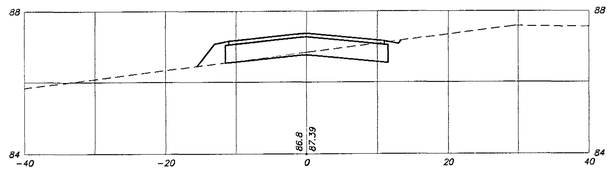
REVISIONS

DATE

ROBERT P. CAUSSEAUX 39421

DATE: 12/13/01
APPROVED BY: ROBERT P. CAUSSEAUX
01-268.DWG 12/10/01 16:19

19+00



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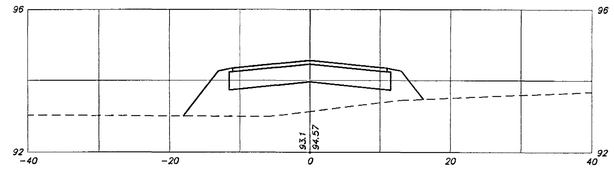

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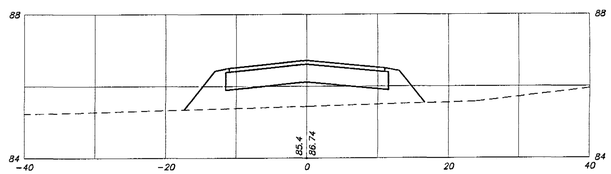

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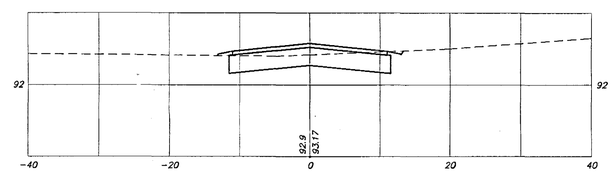

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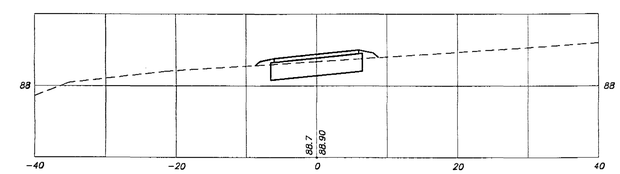

12' PAVED PATH

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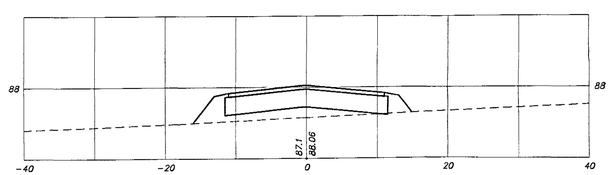

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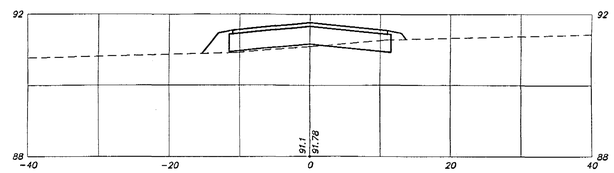

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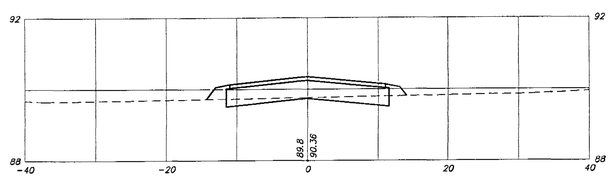

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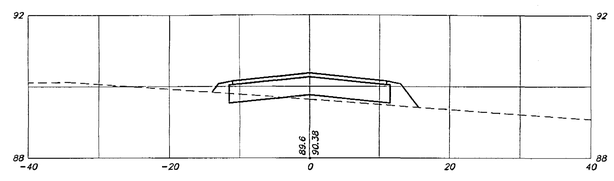

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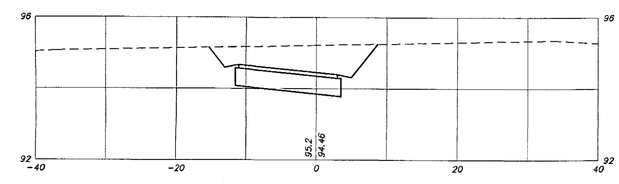

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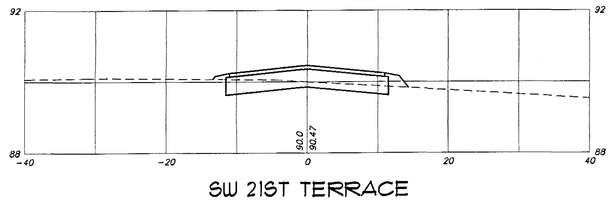

SW 21ST TERRACE

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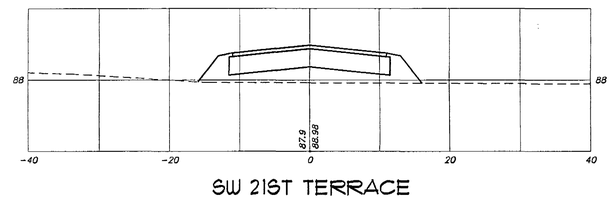

SW 21ST TERRACE

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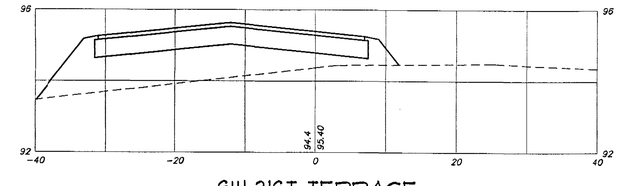

SW 21ST TERRACE

SCALE: 1" = 10' HORIZ.
1" = 2' VERT.

RECEIVED
DEC 19 2001
PAL

CLIENT: GREENTRUST GAINESVILLE, FLORIDA

JOB NO.: 01-268 SHEET NO.: C4.10

PROJECT: MADERA CLUSTER DEVELOPMENT PHASE I

SHEET TITLE: ROADWAY CROSS SECTIONS

DESIGNED BY: R.J.WALPOLE, E.I.
DRAWN BY: C.C. POSADA
CHECKED BY: R.P.CAUSSEUAX, P.E.

COMPUTER FILE: 01-268CS.DWG
DATE: DECEMBER 14, 2001

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Phone: (352) 331-1976 Fax: (352) 331-2476 mailbox@ce-civil.com

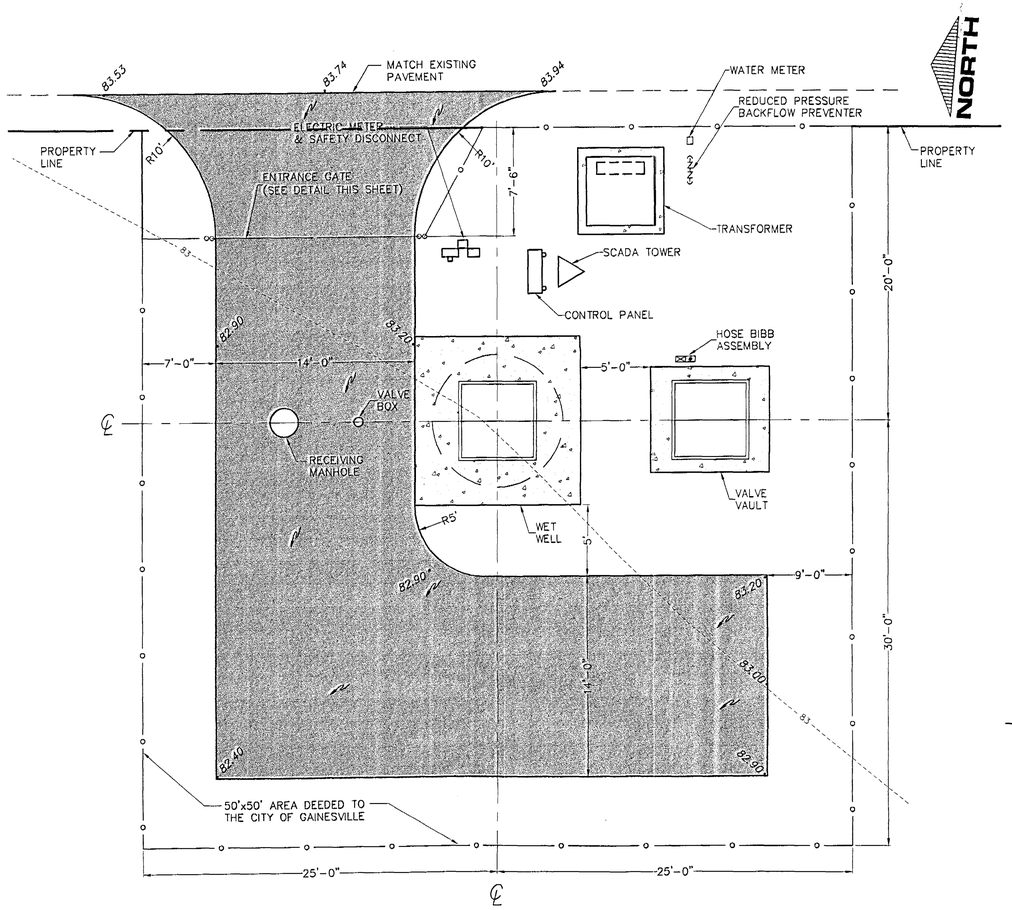
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1" NOT ONE INCH IN THIS SHEET, MODIFY SCALES ACCORDINGLY

REVISIONS

DATE

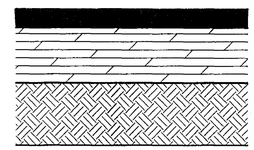
SEAL: ROBERT P. CAUSSEUAX 39421

DATE: 12/14/01
APPROVED BY: [signature]
PART OF PLAN: 01-268CS
12/10/01 16:19



LIFT STATION SITE/CIVIL PLAN

N.T.S.



ASPHALT PAVEMENT DETAIL

N.T.S.

SITE / CIVIL NOTES

1. CONTRACTOR SHALL GRADE SITE TO PROVIDE POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES.

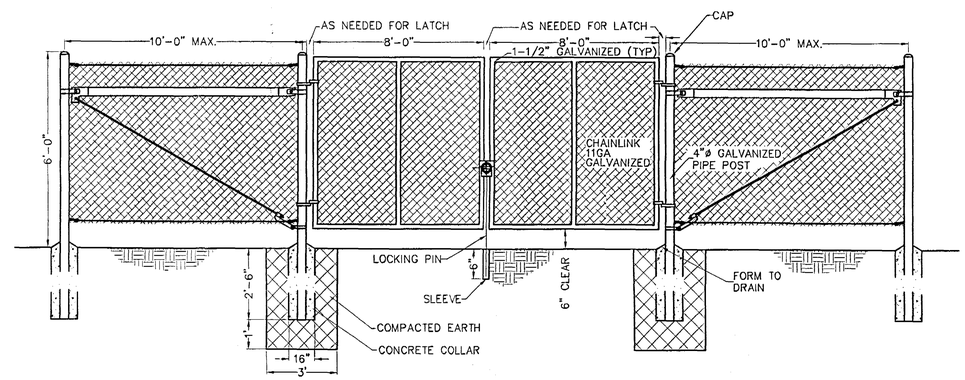
2. CONSTRUCT ASPHALT PAVING IN ACCORDANCE WITH THESE DRAWINGS AND DETAILS.

3. ASPHALT PAVEMENT SHALL BE PLACED TO ENSURE POSITIVE DRAINAGE AWAY FROM STRUCTURES AND SHALL NOT CONTAIN AREAS THAT ALLOW WATER TO ACCUMULATE.

4. SOLID SOD SITE WITH ARGENTINE BAHIA. SOD SHALL, AT TIME OF PLACING, BE FRESH CUT, LIVE, MOIST, AND HAVE ADEQUATE ROOT SYSTEM AT LEAST 1" THICK.

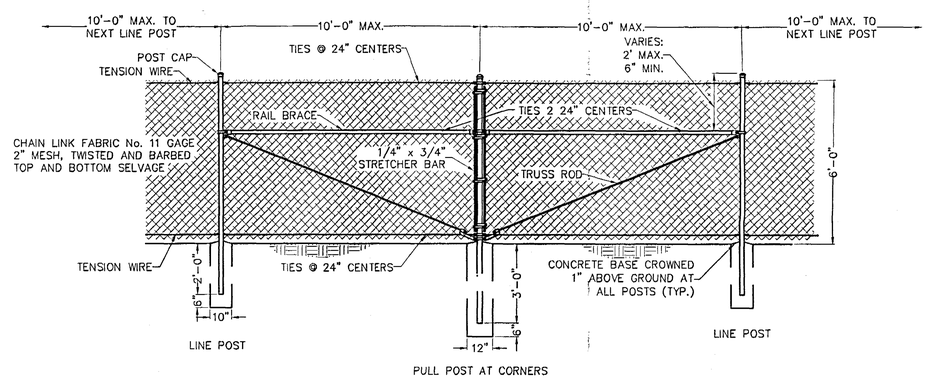
5. SOD SHALL BE KEPT IN A MOIST CONDITION FOR AT LEAST 2 WEEKS AFTER PLACING. CONTRACTOR SHALL WATER SOD NO LESS THAN EVERY OTHER DAY AT A RATE OF 3/4" TO 1" PER APPLICATION.

6. CONSTRUCT CHAIN-LINK FENCE ENCLOSURE WITH GATED ACCESS IN ACCORDANCE WITH THESE DRAWINGS AND DETAILS.



CHAINLINK GATE DETAIL

N.T.S.



CHAINLINK FENCE DETAIL

N.T.S.

LEGEND

- CHAIN LINK FENCE ON PROPERTY LINE (SEE DETAIL THIS SHEET)
- CONCRETE PAD OR COVER
- ASPHALT PAVEMENT

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DEC 19 2001
PAL

CLIENT:	GREENTRUST GAINESVILLE, FLORIDA
JOB NO.:	01-268
SHEET NO.:	C5.00
PROJECT:	MADERA CLUSTER DEVELOPMENT PHASE I
SHEET TITLE:	LIFT STATION SITE PLAN
DESIGNED BY:	R. LAWRYPOLE, E.I.
DRAWN BY:	C.C. POSADA
CHECKED BY:	R.P. CAUSSEAUX, P.E.
COMPUTER FILE:	01-268-LS1.DWG
DATE:	DECEMBER 14, 2001

C&E Causseaux & Ellington, Inc.
Engineering • Surveying • Planning
6011 NW 1st Place, Gainesville, Florida 32607
Phone: (352) 331-1976 Fax: (352) 331-2476 mailbox@ce-civil.com

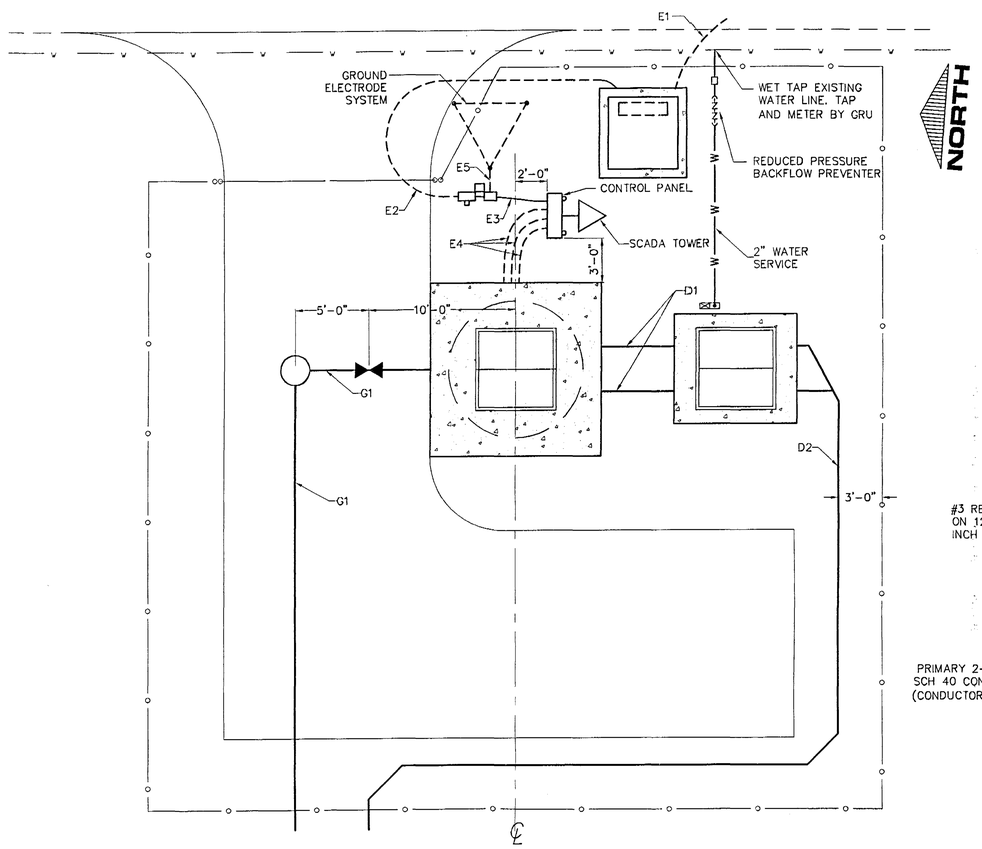
"WARNING" BAR IS EQUAL ON ORIGINAL DRAWING 0 1"
IF NOT ONE INCH, ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

REVISIONS

DATE:

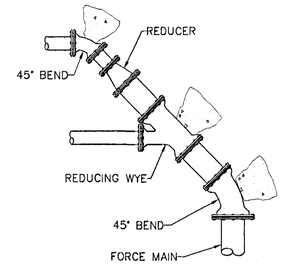
SEAL

DATE: 12/19/01
APPROVED BY: R.P.C.
FOR REVIEW 01-268-.pdf 12/10/01 16:00



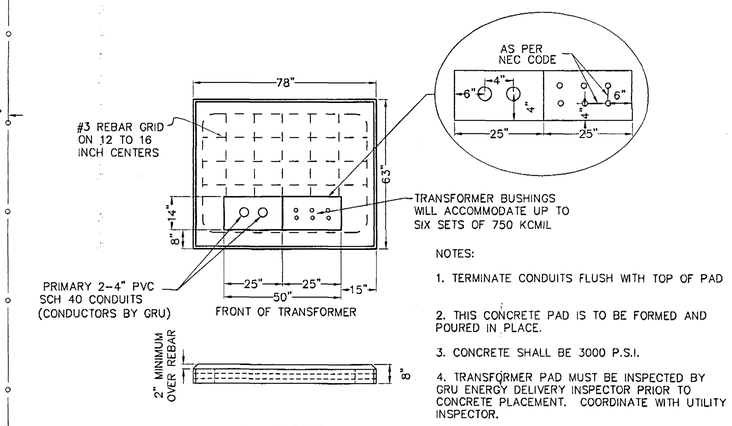
MECHANICAL/ELECTRICAL PLAN

N.T.S.



DISCHARGE PIPING CONNECTION DETAIL

N.T.S.



NOTES:

1. TERMINATE CONDUITS FLUSH WITH TOP OF PAD
2. THIS CONCRETE PAD IS TO BE FORMED AND POURED IN PLACE.
3. CONCRETE SHALL BE 3000 P.S.I.
4. TRANSFORMER PAD MUST BE INSPECTED BY GRU ENERGY DELIVERY INSPECTOR PRIOR TO CONCRETE PLACEMENT. COORDINATE WITH UTILITY INSPECTOR.

TRANSFORMER PAD DETAIL

N.T.S.

MECHANICAL SUMMARY DATA

PUMP MODEL NUMBER / HP RATING	CP 3102
PUMP IMPELLER NUMBER	434
PUMP DISCHARGE PIPE SIZE	4"
PUMP GUIDE RAIL SIZE	5"
WET WELL LINER MATERIAL	BITUMINOUS
WET WELL HATCH DOOR STYLE	DOUBLE
BYPASS VALVE / CONNECTOR SIZE	4"

ELECTRICAL SUMMARY DATA

SERVICE ENTRANCE CURRENT RATING	
SAFETY DISCONNECT FUSE RATING	
TRANSFORMER SIZE	
TRANSFORMER PAD SIZE	
ELECTRIC METER TYPE	
ELECTRIC METER SIZE	
SECONDARY METER SIZE	
CONTROL PANEL TYPE	POST MOUNT

NEED GRU INPUT 12/14/01

PIPE SCHEDULE

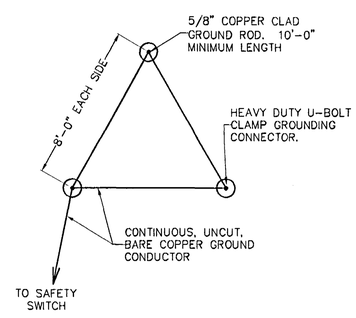
G1 = 8" PVC
D1 = 4" DUCTILE IRON
D2 = 4" PVC

ELECTRICAL SCHEDULE

E1 = 2 [4" C, EMPTY]
E2 = [2" C, 3#___, 1#__G]
E3 = [2" C, 3#___, 1#__N, 1#G]
E4 = 2 [2" C, PUMP CONDUCTOR]
[2" C, CONTROL CABLES]
E5 = [1#__G]

LEGEND

- CHAIN LINK FENCE ON PROPERTY LINE
- CONCRETE PAD OR COVER
- W — UNDERGROUND WATER SERVICE
- UNDERGROUND ELECTRIC LINE
- UNDERGROUND SEWER LINE
- GATE VALVE AND BOX



ELECTRICIAN SHALL TEST GROUND ELECTRODE SYSTEM FOR RESISTANCE. THE GROUND ELECTRODE SYSTEM RESISTANCE TO GROUND SHALL BE NO GREATER THAN 5 OHMS.

GROUND ELECTRODE SYSTEM DETAIL

N.T.S.

RECEIVED
DEC 19 2001
PAL

CLIENT: GREEN TRUST GAINESVILLE, FLORIDA
JOB NO.: 01-268
SHEET NO.: C5.10
PROJECT: MADERA CLUSTER DEVELOPMENT PHASE I
SHEET TITLE: LIFT STATION MECHANICAL/ELECTRICAL PLAN
DESIGNED BY: R.J.WALPOLE, E.I.
DRAWN BY: C.C. POSADA
CHECKED BY: R.P.CAUSSEUAX, P.E.
COMPUTER FILE: 01-268-LS2.DWG
DATE: DECEMBER 14, 2001

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VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

REVISIONS | DATE | SEAL

DATE: 12/17/01
PLOT SCALE: 1:1
PLOT DATE: 01-268-LS2
FILENAME: 1-C5.10

MECHANICAL MATERIALS SCHEDULE

MARK	ITEM	TYPE	QTY.	UNIT
1	SUBMERSIBLE SEWAGE PUMP		2	EA
2	PUMP BASE / DISCHARGE ELBOW		2	EA
3	ANCHOR BOLT		8	EA
4	UPPER GUIDE RAIL BRACKET		2	EA
5	INTERMEDIATE GUIDE RAIL BRACKET		2	EA
6	GUIDE RAIL		4	EA
7	PUMP LIFTING CABLE		2	EA
8	CABLE HOLDER		1	EA
9	DISCHARGE PIPE	FL x PE	2	EA
10	BEND	FL x FL	2	EA
11	PIPE SUPPORT		4	EA
12	–		–	–
13	CLEANOUT (FLOOR DRAIN)		1	EA
14	ACCESS FRAME & COVER – WETWELL		AS REQ'D	--
15	INFLUENT PIPE		AS REQ'D	--
16	TEE	MJ x MJ x MJ	1	EA
17	BEND	MJ x MJ	1	EA
18	REACTION BLOCK		2	EA
19	FILLET		1	EA
20	REINFORCING STEEL		AS REQ'D	--
21	WETWELL		1	EA
22	WETWELL LINER		1	EA
23	JOINT SEALER		AS REQ'D	--
24	PIPE COUPLING		2	EA
25	RESTRAINING GLAND		2	EA

MECHANICAL MATERIALS SCHEDULE

MARK	ITEM	TYPE	QTY.	UNITS
26	FLANGE COUPLING ADAPTER		4	EA
27	DISCHARGE PIPE	FL x PE	4	EA
28	ACCESS FRAME & COVER – VALVE BOX		1	EA
29	VALVE VAULT		1	EA
30	CHECK VALVE	FL x FL	2	EA
31	PLUG VALVE	FL x FL	2	EA
32	TAPPED CAP	FL x FPT	2	EA
33	REDUCING TEE	FL x FL x FL	1	EA
34	HOSE COUPLING W/ QUICK CONNECT	MPT	1	EA
35	DRAIN PIPE		AS REQ'D	--
36	BACKWATER VALVE		1	EA
37	P-TRAP		1	EA
38	BALL VALVE		1	EA
39	WATER PIPE / FITTINGS		AS REQ'D	--
40	HOSE BIBB		1	EA
41	VENT RETURN		AS REQ'D	EA
42	GROUT		AS REQ'D	--
43	PUMP CONDUCTOR		2	EA
44	FLOAT SWITCH		1	EA
45				
46				
47				
48				
49				
50				

DIMENSION SCHEDULE

VARIABLE DIMENSIONS	DIMENSION (FT.)	DESCRIPTION
AA	6.0	WETWELL DIAMETER
BB	4.0	WETWELL HATCH OPENING LENGTH
CC	2.5	WETWELL HATCH OPENING WIDTH
DD	1.5	WETWELL CL TO PUMP CL
EE	0.80	WETWELL CL TO HATCH OPENING
FF	0.167	PUMP BENCH HEIGHT
GG	0.9167	PUMP MINIMUM WATER DEPTH
HH	7.0	VALVE BOX LENGTH

ELEVATION SCHEDULE

VARIABLE ELEVATIONS	ELEVATIONS (FT.)	DESCRIPTION
A	83.80	WETWELL COVER & VALVE VAULT TOP
B	74.08	UPPER INLET PIPE INVERT
C	70.00	LOWER INLET PIPE INVERT
D	69.75	FLOOR OF WETWELL (W/O BENCH)
E	74.00	HIGH WATER ALARM
F	73.00	LAG PUMP ON
G	72.00	LEAD PUMP ON
H	71.00	PUMP OFF

STRUCTURAL/MECHANICAL NOTES

1. STRUCTURAL DESIGN FOR ALL PRECAST CONCRETE STRUCTURES SHALL BE THE RESPONSIBILITY OF THE PRECAST MANUFACTURER AND SHALL CONFORM TO ASTM STANDARDS FOR PRECAST STRUCTURES.

2. COMPACT SUBGRADE BENEATH CONCRETE STRUCTURES TO 98% MODIFIED PROCTOR PRIOR TO INSTALLATION.

3. STABILIZE SUB BASE BENEATH CONCRETE STRUCTURES WITH 12" (MINIMUM) OF GRAVEL IF CONDITIONS ARE WET OR SUB BASE SOILS ARE LOOSE.

4. BACKFILL AROUND STRUCTURES IN 12" LIFTS COMPACTING TO 95% MODIFIED PROCTOR.

5. BACKFILL UPPER 3 FEET BENEATH STRUCTURES AND ACCESS DRIVEWAY TO 98% MODIFIED PROCTOR.

6. SEAL ALL PENETRATIONS IN CONCRETE STRUCTURES WITH TYPE II LEAN CEMENT GROUT.

7. INSTALL PUMP BASES, GUIDE RAILS, AND DISCHARGE PIPING PLUMB, LEVEL, AND SQUARE.

8. INSTALL BENCH FOR PUMP BASE PER APPROVED MANUFACTURER'S SHOP DRAWINGS.

9. UNLESS OTHERWISE SPECIFIED, ALL ACCESSORIES AND FASTENERS SHALL BE 316 STAINLESS STEEL FASTENERS. INSTALL ANTI-SEIZING COMPOUND ON ALL STAINLESS STEEL FASTENERS.

10. INSTALL FILLET AFTER THE INSTALLATION OF ALL PUMP EQUIPMENT. FILLET SHALL BE CONSTRUCTED WITH A SLOPE OF 2 : 1 (VERTICAL : HORIZONTAL).

11. COAT ALL METALS THAT ARE NOT ALUMINUM OR STAINLESS STEEL AND ARE LOCATED IN THE WETWELL OR VALVE VAULT WITH 10 MILS (DRY FILM THICKNESS) OF BLACK, HIGH-SOLIDS EPOXY. (TNEMEC SERIES 69 HI-BUILD EPOXYLINE II). COATING SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION AND SHALL NOT BE IMMERSED UNTIL FULL CURE IS ACHIEVED.

12. COAT ALL ALUMINUM SURFACES IN CONTACT WITH CONCRETE WITH BITUMINOUS COATING PRIOR TO INSTALLATION.

13. INSTALL 2" PVC WATER SERVICE PIPING. GRU WILL FURNISH AND INSTALL WATER METER.

14. PUMP BASES, PUMP ANCHOR BOLTS, UPPER AND INTERMEDIATE GUIDE RAIL BRACKETS, GUIDE RAILS, CABLE HANGER, PUMP LIFTING CABLES, CONTROL PANEL & FLOAT SWITCHES SHALL BE PROVIDED BY PUMP SUPPLIER.

15. UPPER & INTERMEDIATE GUIDE RAIL BRACKETS, GUIDE RAILS, & CABLE HANGER SHALL BE 304 STAINLESS STEEL.

16. INSTALL INTERMEDIATE GUIDE RAIL BRACKETS WHEN GUIDE RAILS EXCEED 20'-0" IN LENGTH.

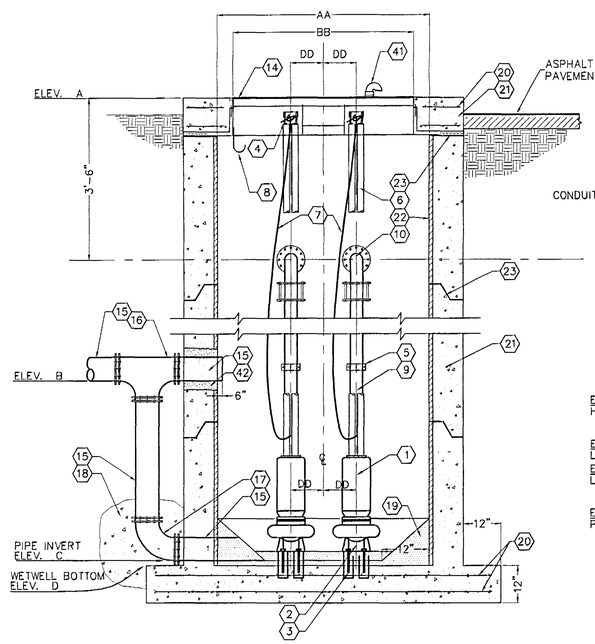
17. PROVIDE CHECK VALVES WITH EXTERNAL WEIGHT & ARM.

18. PROVIDE PLUG VALVES WITH 2" SQUARE NUT OPERATOR.

19. ANCHOR BOLTS FOR PUMP BASES SHALL BE 316 STAINLESS STEEL, EPOXY TYPE, 3/4" MINIMUM, LENGTH AS REQUIRED. OTHER ANCHOR BOLTS SHALL BE 316 STAINLESS STEEL, MECHANICAL WEDGE TYPE, 3/8" MINIMUM DIAMETER, LENGTH AS REQUIRED.

20. APPLY COATING TO STEEL PIPE SUPPORTS BEFORE INSTALLING.

21. ALL WORK MUST COMPLY WITH THESE DRAWINGS AND WITH THE WRITTEN SPECIFICATIONS CONTAINED IN GRU'S WATER AND WASTEWATER SYSTEM MATERIAL AND CONSTRUCTION STANDARDS MANUAL.



CROSS SECTION WETWELL
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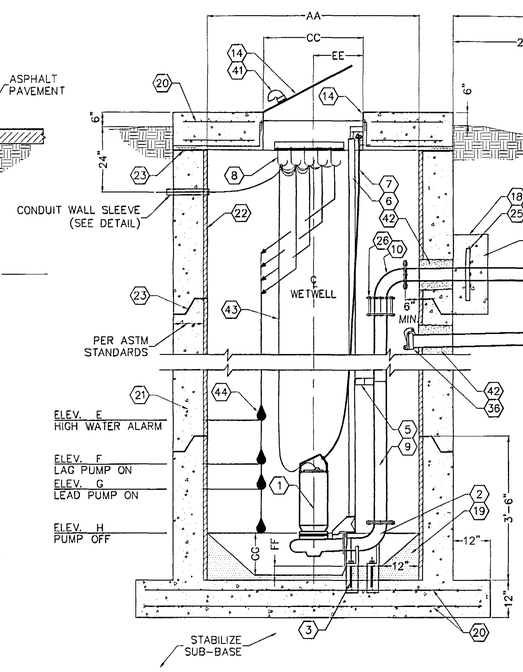

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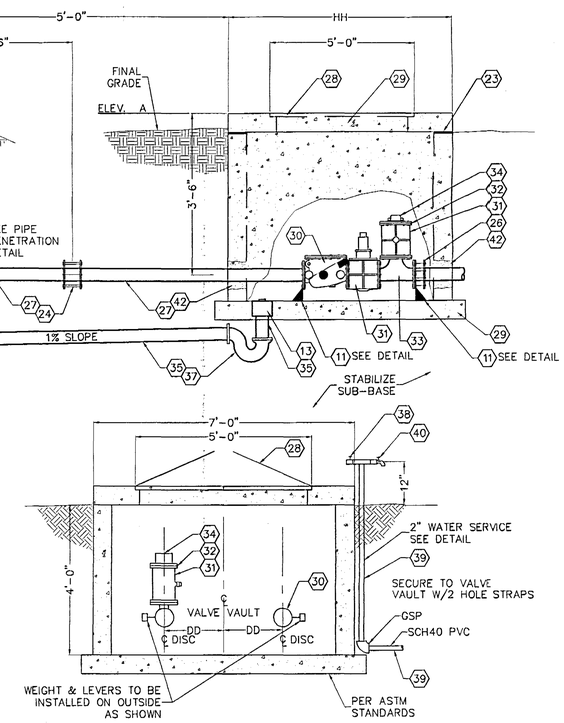

CROSS SECTION VALVE VAULT
N.T.S.

RECEIVED
DEC 19 2001
PAL

CLIENT: GREEN TRUST GAINESVILLE, FLORIDA
SHEET NO.: C5.20
JOB NO.: 01-268
PROJECT: MADERA CLUSTER DEVELOPMENT PHASE I
SHEET TITLE: LIFT STATION MECHANICAL SECTION AND DETAILS
DESIGNED BY: R.J.WALPOLE, E.I.
DRAWN BY: J.VIGIL/DA
CHECKED BY: R.P.CAUSSEUAX, P.E.
COMPUTER FILE: 01-268-LS3.DWG
DATE: DECEMBER 14, 2001

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Engineering • Surveying • Planning
6011 NW 1st Place, Gainesville, Florida 32607
Phone: (352) 331-1976 Fax: (352) 331-2476 mailbox@ce-civil.com

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
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REVISIONS
DATE
SEAL
DATE: 12/13/01
APPROVED BY: R.P. CAUSSEUAX
PROJECT NO.: 01-268-LS3
DATE: 12/13/01

ELECTRICAL MATERIALS SCHEDULE

MARK	ITEM	QTY.	UNIT
51	TRANSFORMER	1	EA
52	TRANSFORMER PAD	1	EA
53	ELECTRIC METER	1	EA
54	SAFETY SWITCH	1	EA
55	CONCRETE SUPPORT POST	1	EA
56	CONDUIT SUPPORT STRUT	AS REQ'D	--
57	THREADED HUB	AS REQ'D	--
58	CONTROL PANEL SUPPORT RACK	1	EA
59	CONTROL PANEL	1	EA
60	CONDUIT SEALING FITTING	3	EA
61	SCADA TOWER	1	EA
62	CONDUIT	AS REQ'D	--
63	CONCRETE	AS REQ'D	--
64	GRAVEL - #57 STONE	--	--
65	CONTROL PANEL SOLAR SHIELD	--	--
66	CONCRETE PAD	--	--
67			
68			
69			
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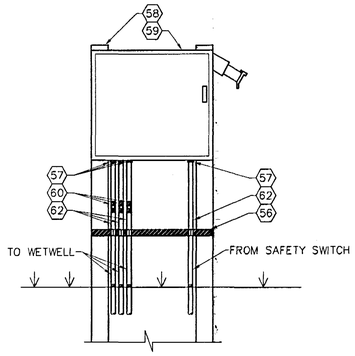
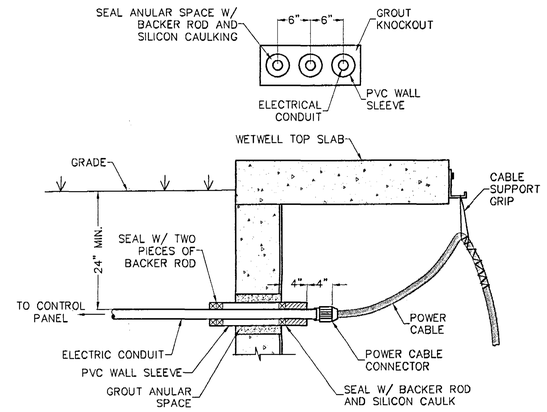


CROSS SECTION POLE MOUNTED CONTROL PANEL

N.T.S.



ELECTRICAL WALL PENETRATION DETAIL

N.T.S.

ELECTRICAL NOTES

1. ALL ELECTRICAL WORK SHALL BE PERFORMED BY AN ELECTRICAL CONTRACTOR LICENSED IN THE STATE.

2. CONTRACTOR SHALL OBTAIN AN ELECTRICAL BUILDING PERMIT FROM THE APPROPRIATE AUTHORITY – CITY OF GAINESVILLE OR ALACHUA COUNTY. IF THE SITE IS LOCATED IN THE COUNTY, THE CONTRACTOR MUST OBTAIN PERMITS FROM BOTH AGENCIES. THE CITY OF GAINESVILLE ELECTRICAL INSPECTOR WILL PERFORM ALL INSPECTIONS.

3. OBTAIN METER CAN FROM GRU ENERGY DELIVERY. COORDINATE WITH UTILITY INSPECTOR.

4. PRIMARY CONDUIT SHALL BE SCHEDULED 40 PVC CONDUIT WITH LONG RADIUS, RIGID, GALVANIZED STEEL SWEEPS. COAT EXTERIOR OF SWEEPS WITH BITUMINOUS COATING PRIOR TO INSTALLATION.

5. PRIMARY CONDUCTOR AND TRANSFORMER WILL BE FURNISHED AND INSTALLED BY GRU ENERGY DELIVERY.

6. BELOW GRADE SECONDARY CONDUIT AND FITTINGS SHALL BE SCHEDULE 80 PVC CONDUIT.

7. ABOVE GRADE SECONDARY CONDUIT AND FITTINGS SHALL BE RIGID, ALUMINUM CONDUIT.

8. CONDUCTOR SHALL BE COPPER, THWN.

9. CONDUIT SUPPORT SHALL BE 12 GAUGE, 1-5/8" X 1-5/8" ALUMINUM STRUT WITH STAINLESS STEEL HARDWARE.

10. USE ANTI-SEIZING LUBRICANT ON ALL ALUMINUM THREADED FITTINGS.

11. INSTALL MEYERS TYPE THREADED HUBS ON ALL CONDUIT PENETRATIONS INTO ELECTRICAL CABINETS.

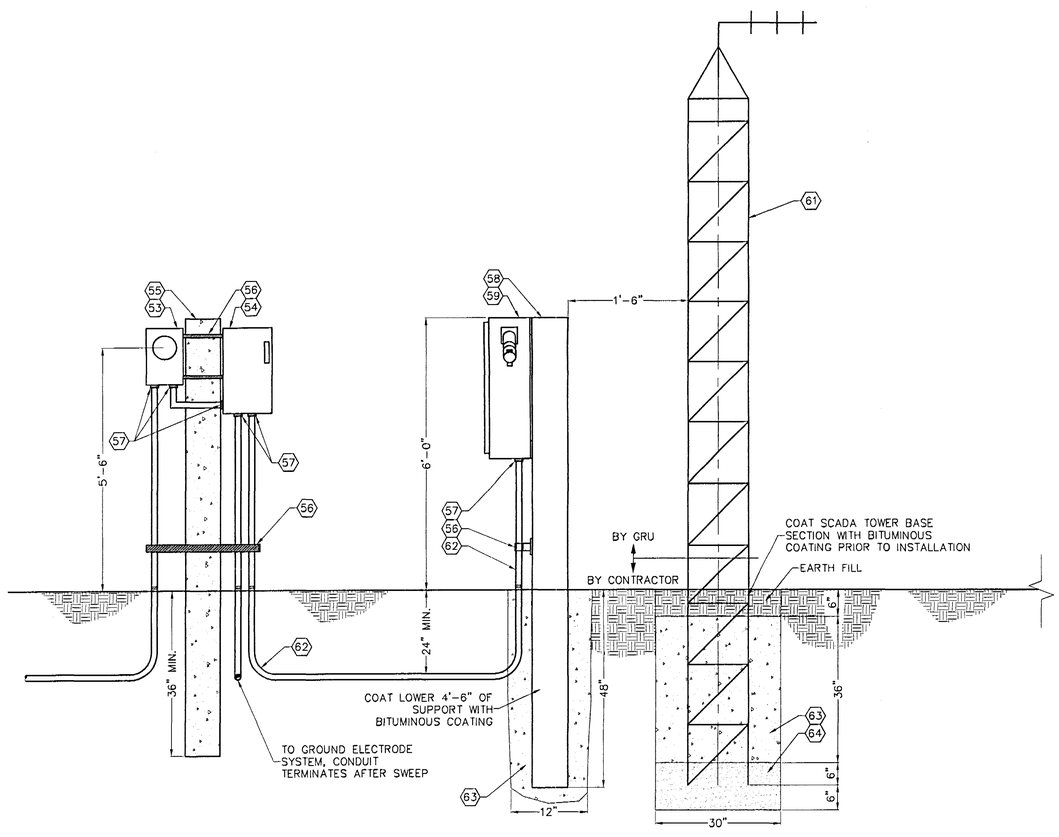
12. OBTAIN BASE SECTION FOR SCADA TOWER FROM GRU. COORDINATE WITH UTILITY INSPECTOR.

13. COAT ALL ALUMINUM SURFACES IN CONTACT WITH CONCRETE WITH BITUMINOUS COATING PRIOR TO INSTALLATION.

14. FASTENERS, ANCHOR BOLTS, AND OTHER HARDWARE SHALL BE STAINLESS STEEL. INSTALL ANTI-SEIZING COMPOUND ON ALL STAINLESS STEEL FASTENERS.

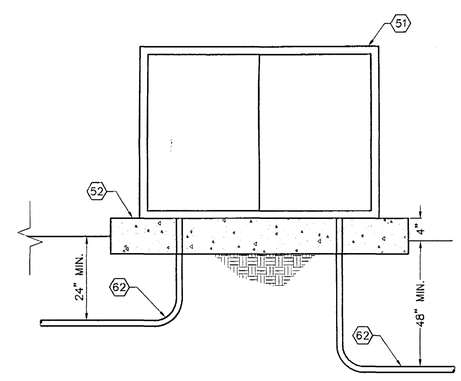
15. TRANSFORMER PAD MUST BE INSPECTED BY GRU ENERGY DELIVERY INSPECTOR PRIOR TO CONCRETE PLACEMENT. COORDINATE WITH UTILITY INSPECTOR.

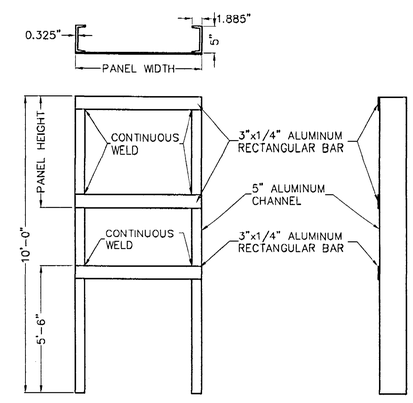
16. ALL WORK MUST COMPLY WITH THESE DRAWINGS AND WITH THE WRITTEN SPECIFICATIONS CONTAINED IN GRU'S WATER AND WASTEWATER SYSTEM MATERIAL AND CONSTRUCTION STANDARDS MANUAL.



ELECTRICAL SECTION POLE MOUNTED PANEL

N.T.S.





PANEL SUPPORT RACK DETAIL

N.T.S.

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DEC 19 2001
PAI

CLIENT: GREENTRUST GAINESVILLE, FLORIDA
JOB NO.: 01-268
SHEET NO.: C5.30
PROJECT: MADERA CLUSTER DEVELOPMENT PHASE I
SHEET TITLE: LIFT STATION ELECTRICAL SECTION AND DETAILS
DESIGNED BY: R.J.WALPOLE, E.I.
DRAWN BY: C.C. POSADA
CHECKED BY: R.P.CAUSSEUX, P.E.
COMPUTER FILE: 01-268-L54.DWG
DATE: DECEMBER 14, 2001

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6011 NW 1st Place, Gainesville, Florida 32607
Phone: (352) 331-1976 Fax: (352) 331-2476 mail@ce-civil.com

VIEW'S SCALE
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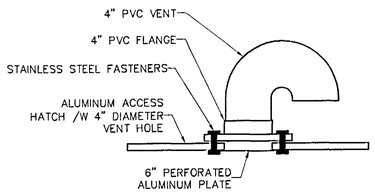
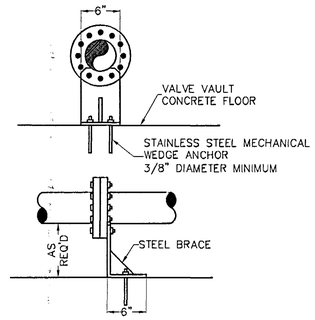
DATE
SEAL
DATE: 12/14/01
APPROVED BY:
PLOT SCALE: 1" = 1'-0"
PLOT DATE: 01-268-L54 12/13/01 09:46



WETWELL VENT DETAIL

N.T.S.

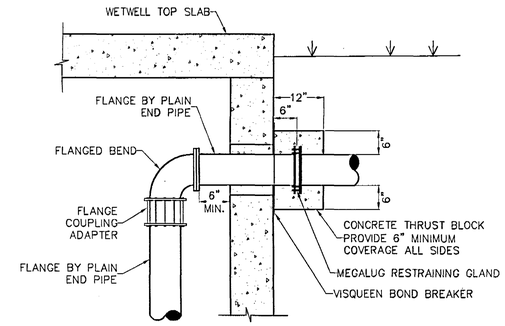


NOTES:
1. CONSTRUCT PIPE SUPPORT WITH 1/4" STEEL PLATE.

2. COAT SUPPORT WITH 2 COATS HIGH-SOLIDS EPOXY (2 PART) PRIOR TO INSTALLATION.

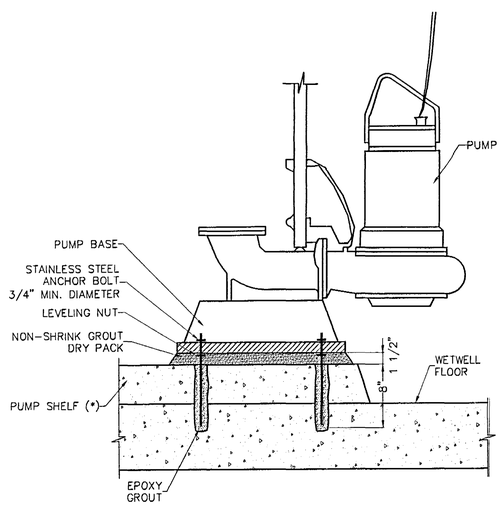
PIPE SUPPORT DETAIL

N.T.S.



PIPE PENETRATION DETAIL

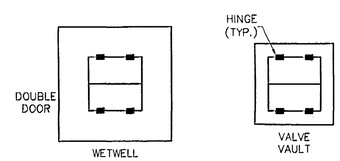
N.T.S.



* – PUMP SHELF IF REQUIRED BY MANUFACTURER.

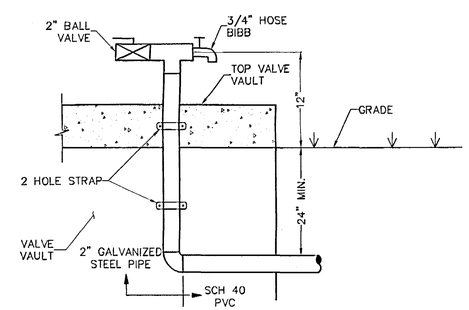
PUMP BASE DETAIL

N.T.S.



WETWELL HATCH DOOR ORIENTATION DETAIL

N.T.S.



HOSE BIBB ASSEMBLY DETAIL

N.T.S.

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CLIENT: GREENTRUST GAINESVILLE, FLORIDA
JOB NO.: 01-268
SHEET NO.: C5.40
PROJECT: MASTER CLUSTER DEVELOPMENT PHASE I
SHEET TITLE: LIFT STATION DETAILS
DESIGNED BY: R.J.WALPOLE, E.I.
DRAWN BY: C.C. POSADA
CHECKED BY: R.P.CAUSSEUAX, P.E.
COMPUTER FILE: 01-268-LS5.DWG
DATE: DECEMBER 14, 2001

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Phone: (352) 331-1976 Fax: (352) 331-2476 mail@ce-civil.com

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REVISIONS | DATE

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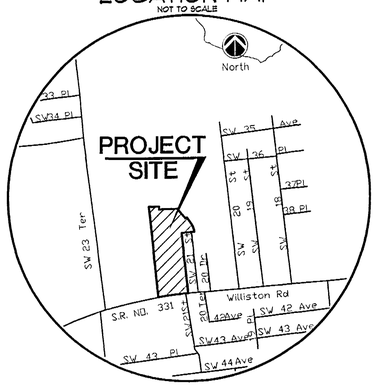
DATE: 12/17/01
APPROVED BY: R.P. CAUSSEUAX
PROJ. NO. 01-268-LS5
EST. COMP. DATE: 12/17/01

PLAT BOOK __ ,PAGE __
SHEET ONE OF TWO

LOCATION MAP
NOT TO SCALE



MADERA CLUSTER DEVELOPMENT
PHASE I

LYING IN LOT 6 OF THE NAPIER GRANT, TOWNSHIP 10 SOUTH, RANGE 20 EAST, IN THE CITY OF GAINESVILLE, ALACHUA COUNTY, FLORIDA

Causseaux & Ellington, Inc.
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Phone: (352) 331-1976 Fax: (352) 331-2476

M.A.R. 01-3798plat
12/13/01 09:48

SURVEYOR'S NOTES:

1. BEARINGS HEREON ARE REFERRED TO AN ASSUMED VALUE OF N04°30'00"W FOR THE WEST LINE OF LOT 6 OF THE NAPIER GRANT AS SHOWN HEREON, SAID BEARING IS IDENTICAL WITH THE PLAT OF THE THOMAS NAPIER GRANT RECORDED IN DEED BOOK I, PAGE 591 OF THE PUBLIC RECORDS OF ALACHUA COUNTY, FLORIDA.

2. THE ERROR OF CLOSURE FOR THE BOUNDARY OF THIS PLAT DOES NOT EXCEED 1':10.000'.

3. BUILDING SETBACK REQUIREMENTS (MINIMUM) UNLESS OTHERWISE SHOWN.
PRINCIPAL: FRONT = 15' REAR = 15' SIDE INTERIOR = 5' SIDE STREET = 10'
ACCESSORY: FRONT = 15' REAR = 15' SIDE = 10'

4. BENCHMARKS SHOWN HEREON ARE NGVD 1929, BASED ON UNITED STATES COAST AND GEODETIC SURVEY BENCHMARK, NAMED "BM #B-268", HAVING A PUBLISHED ELEVATION OF 116.939 FEET.

5. THERE IS A TOTAL OF 0.193 ACRES± OF COMMON SPACE & P.U.E.
THERE IS A TOTAL OF 0.814 ACRES± OF COMMON SPACE & DRAINAGE EASEMENT.
THERE IS A TOTAL OF 2.724 ACRES± OF COMMON SPACE.
THERE IS A TOTAL OF 0.071 ACRES± OF EMERGENCY INGRESS/EGRESS ACCESS & P.U.E.

6. THERE SHALL BE NO IMPROVEMENTS CONSTRUCTED IN THE 20 FOOT DRAINAGE EASEMENT ON LOTS 18 AND 19.

NOTE: THIS PROPERTY IS LOCATED IN FEDERAL FLOOD ZONE "C", AREAS OF MINIMAL FLOODING, AS INTERPOLATED FROM F.I.R.M. PANEL NO. 120001 0450 A, EFFECTIVE 9/28/84.

NOTICE:
THIS PLAT, AS RECORDED IN ITS GRAPHIC FORM, IS THE OFFICIAL DEPICTION OF THE SUBDIVIDED LANDS DESCRIBED HEREIN AND WILL IN NO CIRCUMSTANCES BE SUPPLANTED IN AUTHORITY BY ANY OTHER GRAPHIC OR DIGITAL FORM OF THE PLAT. THERE MAY BE ADDITIONAL RESTRICTIONS THAT ARE NOT RECORDED ON THIS PLAT THAT MAY BE FOUND IN THE PUBLIC RECORDS OF THIS COUNTY.

ALL PLATTED UTILITY EASEMENTS SHALL PROVIDE THAT SUCH EASEMENTS SHALL ALSO BE EASEMENTS FOR THE CONSTRUCTION, INSTALLATION, MAINTENANCE, AND OPERATION OF CABLE TELEVISION SERVICES; PROVIDED, HOWEVER, NO SUCH CONSTRUCTION, INSTALLATION, MAINTENANCE, AND OPERATION OF CABLE TELEVISION SERVICES SHALL INTERFERE WITH THE FACILITIES AND SERVICES OF AN ELECTRIC TELEPHONE, GAS, OR OTHER PUBLIC UTILITY. IN THE EVENT A CABLE TELEVISION COMPANY DAMAGES THE FACILITIES OF A PUBLIC UTILITY, IT SHALL BE SOLELY RESPONSIBLE FOR THE DAMAGES.

SURVEYOR'S CERTIFICATION:

I DO HEREBY CERTIFY THAT THIS PLAT ENTITLED "MADERA CLUSTER DEVELOPMENT PHASE I" IS A TRUE AND CORRECT REPRESENTATION OF A SURVEY MADE OF THE DESCRIBED LANDS, UNDER MY RESPONSIBLE DIRECTION AND SUPERVISION AND THAT THIS PLAT AND SURVEY COMPLIES WITH ALL REQUIREMENTS AS SET FORTH IN CHAPTER 177 OF THE FLORIDA STATUTES.

DATE _____ KEVIN J. FLANAGAN
PROFESSIONAL SURVEYOR AND MAPPER

FLORIDA REGISTRATION NUMBER 3942
CAUSSEAUX & ELLINGTON, INC. LB NUMBER 5075

LEGAL DESCRIPTION: (PREPARED BY SURVEYOR)

A PARCEL OF LAND LYING IN LOT 6 OF THE NAPIER GRANT, TOWNSHIP 10 SOUTH, RANGE 20 EAST, ALACHUA COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGIN AT THE INTERSECTION OF THE WEST LINE OF SAID LOT 6 AND THE NORTH RIGHT-OF-WAY LINE OF STATE ROAD NUMBER 331 (A.K.A. WILLISTON ROAD - A 100' RIGHT-OF-WAY);
THENCE NORTH 04 DEGREES 30 MINUTES 00 SECONDS WEST ALONG THE WEST LINE OF SAID LOT 6, 1253.34 FEET;
THENCE DEPARTING SAID WEST LINE SOUTH 88 DEGREES 10 MINUTES 49 SECONDS EAST, 143.66 FEET;
THENCE SOUTH 01 DEGREES 49 MINUTES 11 SECONDS WEST, 40.00 FEET;
THENCE NORTH 82 DEGREES 42 MINUTES 18 SECONDS EAST, 60.77 FEET;
THENCE SOUTH 88 DEGREES 10 MINUTES 49 SECONDS EAST, 190.58 FEET;
THENCE SOUTH 36 DEGREES 59 MINUTES 41 SECONDS EAST, 23.63 FEET;
THENCE SOUTH 38 DEGREES 38 MINUTES 49 SECONDS EAST, 150.58 FEET TO THE INTERSECTION WITH A NON-TANGENT CURVE TO THE RIGHT, CONCAVE SOUTHEASTERLY, AND HAVING A RADIUS OF 280.00 FEET;
THENCE NORTHEASTERLY ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 04 DEGREES 39 MINUTES 00 SECONDS, 22.72 FEET, SAID ARC BEING SUBTENDED BY A CHORD BEARING AND DISTANCE OF NORTH 61 DEGREES 00 MINUTES 37 SECONDS EAST, 22.72 FEET TO THE END OF SAID CURVE;
THENCE SOUTH 33 DEGREES 50 MINUTES 44 SECONDS EAST, 133.95 FEET TO THE POINT OF CURVATURE OF A CURVE TO THE RIGHT, CONCAVE SOUTHWESTERLY, AND HAVING A RADIUS OF 50.00 FEET;
THENCE SOUTHEASTERLY ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 13 DEGREES 03 MINUTES 52 SECONDS, 11.40 FEET TO THE POINT OF TANGENCY, SAID ARC BEING SUBTENDED BY A CHORD BEARING AND DISTANCE SOUTH 27 DEGREES 18 MINUTES 48 SECONDS EAST, 11.38 FEET;
THENCE SOUTH 20 DEGREES 46 MINUTES 52 SECONDS EAST, 36.29 FEET TO THE POINT OF CURVATURE OF A CURVE TO THE RIGHT, CONCAVE SOUTHWESTERLY, AND HAVING A RADIUS OF 80.00 FEET;
THENCE SOUTHEASTERLY ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 16 DEGREES 16 MINUTES 52 SECONDS, 22.73 FEET TO THE POINT OF TANGENCY, SAID ARC BEING SUBTENDED BY A CHORD BEARING AND DISTANCE OF SOUTH 12 DEGREES 38 MINUTES 26 SECONDS EAST, 22.66 FEET;
THENCE SOUTH 04 DEGREES 30 MINUTES 00 SECONDS EAST, 22.40 FEET TO THE NORTH LINE OF NAPIER ESTATE AS RECORDED IN PLAT BOOK "E" PAGE 16 OF THE PUBLIC RECORDS OF ALACHUA COUNTY, FLORIDA;
THENCE SOUTH 86 DEGREES 51 MINUTES 26 SECONDS WEST, 176.32 FEET ALONG SAID NORTH LINE TO THE NORTHWEST CORNER OF SAID NAPIER ESTATE;
THENCE SOUTH 04 DEGREES 53 MINUTES 02 SECONDS EAST, 834.90 FEET ALONG THE WEST LINE OF SAID NAPIER ESTATE TO THE POINT OF INTERSECTION WITH THE NORTH RIGHT-OF-WAY LINE OF STATE ROAD 331 (100' RIGHT-OF-WAY), SAID POINT BEING ON A NON-TANGENT CURVE TO THE LEFT, CONCAVE SOUTHERLY, AND HAVING A RADIUS OF 5741.63 FEET;
THENCE WESTERLY ALONG SAID NORTH RIGHT-OF-WAY LINE AND ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 04 DEGREES 11 MINUTES AND 03 SECONDS, 419.30 FEET TO THE POINT OF BEGINNING, SAID ARC BEING SUBTENDED BY A CHORD BEARING AND DISTANCE OF SOUTH 84 DEGREES 32 MINUTES 33 SECONDS WEST, 419.21 FEET.

THE ABOVE DESCRIBED PARCEL CONTAINS 12.223 ACRES, MORE OR LESS.

OWNER'S CERTIFICATION AND DEDICATION:

COMES NOW GREENTRUST, LLC., A FLORIDA LIMITED LIABILITY COMPANY, AND DOES HEREBY CERTIFY TO BE THE DEVELOPER AND OWNER OF RECORD OF THE LANDS HEREIN DESCRIBED AND HAVE CAUSED SAID LANDS TO BE SURVEYED AND PLATTED TO BE KNOWN AS "MADERA CLUSTER DEVELOPMENT PHASE 1" AND DOES HEREBY DEDICATE TO THE PUBLIC FOREVER THE STREET RIGHTS-OF-WAY, PUBLIC UTILITIES EASEMENTS AND THE 20 FOOT EMERGENCY INGRESS/EGRESS AND P.U.E. AS SHOWN HEREON. COMMON SPACE IS HEREBY CONVEYED TO THE MADERA HOME OWNERS ASSOCIATION, INC. COMMON SPACE & DRAINAGE EASEMENT AREAS ARE SUBJECT TO THE PUBLIC RIGHT TO DISCHARGE STORMWATER OVER THE ENTIRETY OF SAID COMMON SPACE AND DRAINAGE EASEMENT AREAS.

WITNESS _____ WENDY BRATZEL, PRINCIPAL
GREENTRUST, LLC. - DECLARANT/DEVELOPER

WITNESS _____

NOTARY:

STATE OF FLORIDA
COUNTY OF ALACHUA
THE FOREGOING INSTRUMENT WAS ACKNOWLEDGED BEFORE ME THIS ___ DAY OF DECEMBER, BY WENDY BRATZEL (name), PRINCIPAL (title), OF GREENTRUST LLC. , A LIMITED LIABILITY COMPANY, ON BEHALF OF THE COMPANY. SHE IS PERSONALLY KNOWN TO ME OR WHO HAS PRODUCED _____ AS IDENTIFICATION AND WHO DID/DID NOT TAKE AN OATH.

(official notary signature and notary seal)

(name of notary, printed or stamped)

CLERK OF THE COURT:

HEREBY RECEIVED AND FILED THIS PLAT FOR RECORD THIS ___DAY OF_____, YEAR OF 200_.

CLERK OF THE CIRCUIT COURT DEPUTY CLERK

MORTGAGEE'S APPROVAL:

GREENTRUST LLC., A FLORDIA LIMITED LIABILITY COMPANY, AS MORTGAGEE, HOLDER OF THAT CERTAIN MORTGAGE RECORDED IN OFFICIAL RECORD BOOK 2401, PAGE 1943 OF THE PUBLIC RECORDS OF ALACHUA COUNTY, FLORIDA, AND DOES HEREBY CONSENT AND AGREE TO THE PLATTING OF THE LANDS ENCOMPASSED IN THIS PLAT AND TO THE DEDICATION SHOWN HEREON.

SIGNATURE: _____ MORTGAGEE: GREENTRUST

DATED: _____ ADDRESS: 13743 LAKESIDE DRIVE CLARKSVILLE, MD

BY: WENDY BRATZEL

WITNESS _____ TITLE: PRINCIPAL

WITNESS _____

NOTARY:

STATE OF FLORIDA
COUNTY OF ALACHUA
THE FOREGOING INSTRUMENT WAS ACKNOWLEDGED BEFORE ME THIS ___ DAY OF DECEMBER, BY WENDY BRATZEL (name), PRINCIPAL (title), OF GREENTRUST LLC. , A LIMITED LIABILITY COMPANY, ON BEHALF OF THE COMPANY. SHE IS PERSONALLY KNOWN TO ME OR WHO HAS PRODUCED _____ AS IDENTIFICATION AND WHO DID/DID NOT TAKE AN OATH.

(official notary signature and notary seal)

(name of notary, printed or stamped)

APPROVAL OF THE CITY OF GAINESVILLE:

WE THE UNDERSIGNED DO HEREBY CERTIFY THIS PLAT CONFORMS TO THE REQUIREMENTS OF THE CITY OF GAINESVILLE, COUNTY OF ALACHUA, STATE OF FLORIDA ORDINANCES AND REGULATIONS AS FOLLOWS:

SURVEYING REQUIREMENTS: TO CHAPTER 177.081 (1), FLORIDA STATUTES _____ CITY SURVEYOR DATE

ENGINEERING REQUIREMENTS: _____ PUBLIC WORKS DIRECTOR DATE

ACCEPTED BY THE PLAN BOARD: _____ COMMUNITY DEVELOPMENT DIRECTOR DATE

LEGALITY OF DEDICATION: _____ CITY ATTORNEY DATE

UTILITY REQUIREMENTS: _____ UTILITY MANAGER DATE

AS CONFORMS TO THE LAWS OF THE STATE OF FLORIDA AND ADAPTABILITY TO CITY PLANS: _____ CITY MANAGER DATE

ACCEPTED BY CITY COMMISSION: _____ CLERK OF CITY COMMISSION DATE

PLAT BOOK __ ,PAGE __
SHEET TWO OF TWO

Causseaux & Ellington, Inc.
Engineering • Surveying • Planning
6011 NW 1st Place, Gainesville, Florida 32607
Phone: (352) 331-1976 Fax: (352) 331-2476

M.A.R. 01-3708plat
12/13/01 08:45

MADERA CLUSTER DEVELOPMENT

PHASE I

LYING IN LOT 6 OF THE NAPIER GRANT, TOWNSHIP 10 SOUTH, RANGE 20 EAST, IN THE CITY OF GAINESVILLE, ALACHUA COUNTY, FLORIDA

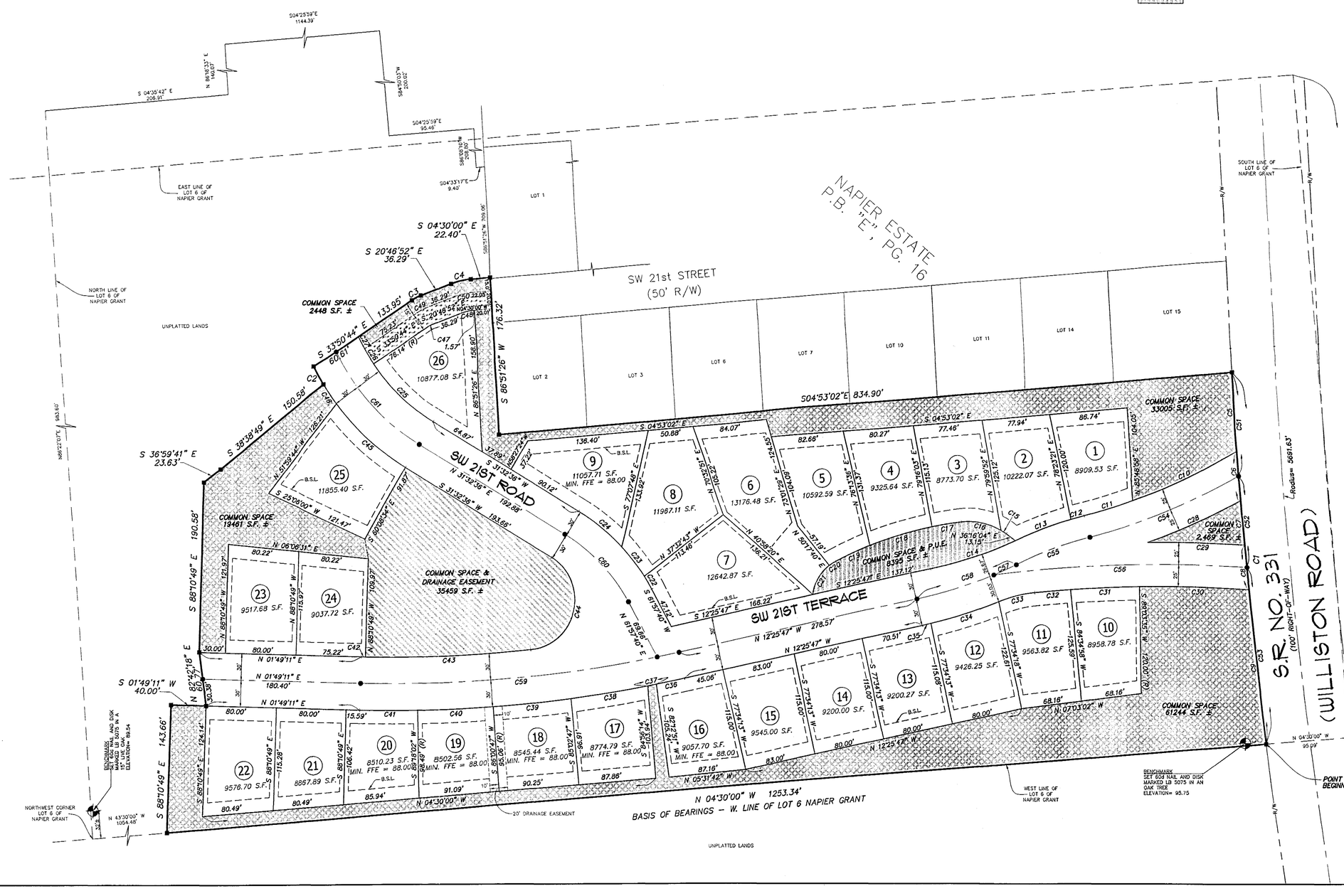
GRAPHIC SCALE

60 0 30 60 120 240

(IN FEET)
1 inch = 60 ft.

LEGEND:

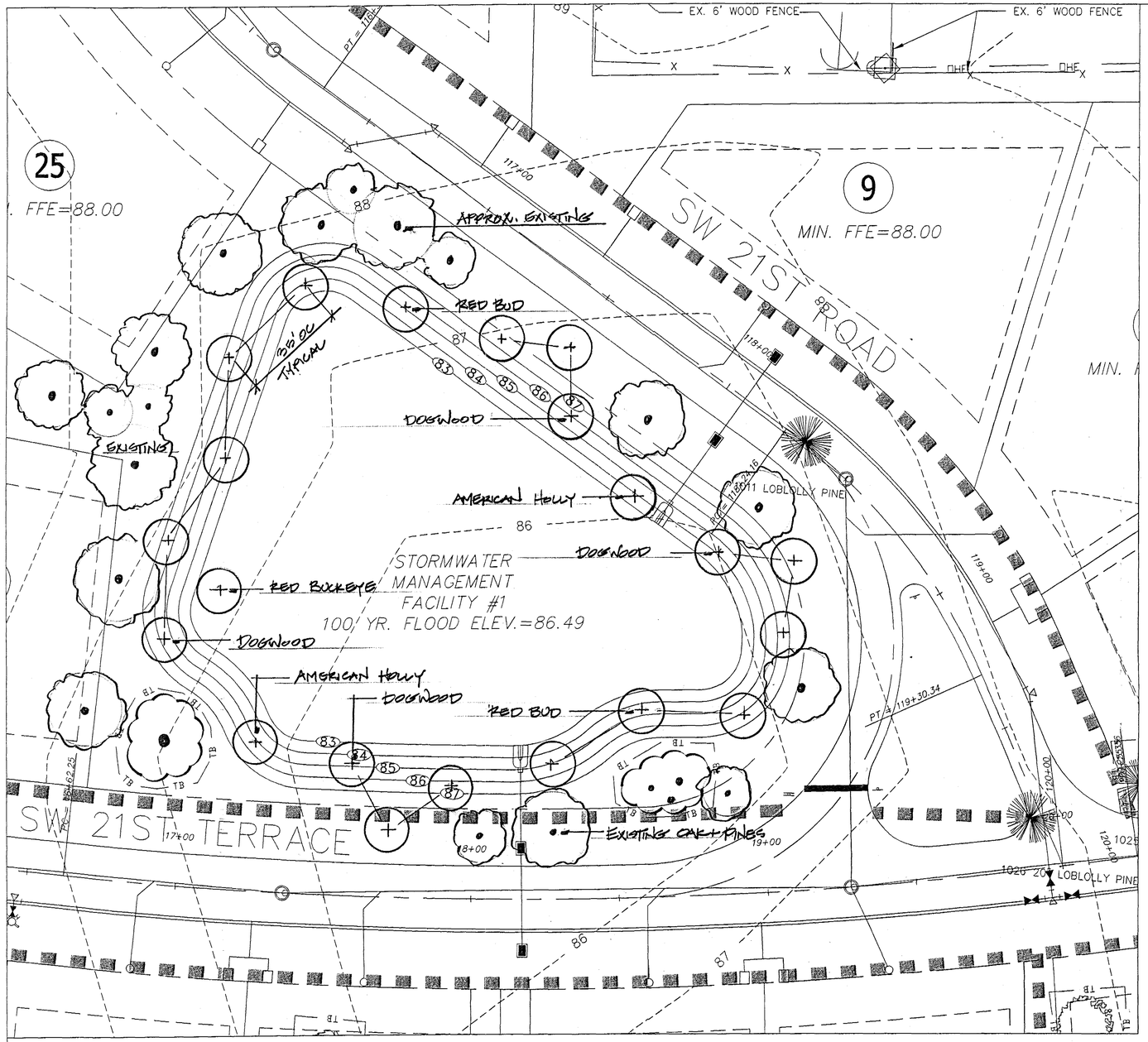
P.B. = PLAT BOOK
PG. = PAGE
P.R.M. = PERMANENT REFERENCE MONUMENT
R/W = RIGHT-OF-WAY
(R) = RADIAL
P.U.E. = PUBLIC UTILITY EASEMENT
B.S.L. = BUILDING SETBACK LINE
ID. = IDENTIFICATION
MIN. FFE. = MINIMUM FINISHED FLOOR ELEVATION
● = PERMANENT CONTROL POINT (NAIL & DISK LB 5075) TO BE PLACED
⊡ = P.R.M. 4"X4" CONCRETE MONUMENT FOUND (ID. AS SHOWN)
■ = PERMANENT REFERENCE MONUMENT (LB 5075) PLACED
= SITE BENCHMARK (AS SHOWN)
BUILDING SETBACK LINES
= 20' EMERGENCY INGRESS/EGRESS ACCESS & P.U.E.
= COMMON SPACE AND DRAINAGE EASEMENT
= COMMON SPACE
= COMMON SPACE AND P.U.E.



CURVE TABLE						
CURVE	LENGTH	RADIUS	DELTA	TANGENT	CHORD	CD. BNG.
C1	419.30	5741.63	04°11'03"	209.74	419.21	S84°32'33"W
C2	22.72	280.00	04°39'00"	11.37	22.72	N61°00'37"E
C3	11.40	50.00	13°03'52"	5.73	11.38	S27°18'48"E
C4	22.73	80.00	16°16'52"	11.44	22.66	S12°38'26"E
C5	88.91	5741.63	00°53'14"	44.46	88.91	S86°11'28"W
C6	55.30	5741.63	00°33'07"	27.65	55.30	S85°28'17"W
C7	50.21	5741.63	00°30'04"	25.10	50.21	S84°58'42"W
C8	50.66	5741.63	00°30'20"	25.33	50.66	S84°26'30"W
C9	174.22	5741.63	01°44'19"	87.12	174.21	S83°19'11"W
C10	130.05	668.00	11°09'17"	65.23	129.84	N25°13'46"W
C11	57.67	668.00	04°56'49"	28.86	57.66	N17°10'43"W
C12	15.35	475.00	01°51'06"	7.68	15.35	S15°37'52"E
C13	68.01	475.00	08°12'11"	34.06	67.95	N20°39'30"W
C14	101.15	470.00	12°19'49"	50.77	100.95	N18°35'41"W
C15	7.06	70.00	05°46'35"	3.53	7.05	N33°22'47"E
C16	46.20	70.00	37°48'59"	23.98	45.37	N11°35'00"E
C17	33.51	420.00	04°34'17"	16.76	33.50	N09°36'38"W
C18	73.40	420.00	10°00'46"	36.79	73.30	N16°54'09"W
C19	43.32	420.00	05°54'37"	21.68	43.31	N24°51'50"W
C20	8.84	50.00	10°07'55"	4.43	8.83	N32°53'07"W
C21	38.54	50.00	44°09'53"	20.28	37.59	N60°02'01"W
C22	16.60	230.00	04°08'06"	8.30	16.60	N59°53'37"E
C23	42.20	230.00	10°30'48"	21.16	42.14	N52°34'10"E
C24	63.30	230.00	15°46'10"	31.85	63.10	N39°25'41"E
C25	94.50	220.00	24°36'41"	47.99	93.78	N43°50'56"E
C26	20.03	220.00	05°12'57"	10.02	20.02	N58°45'45"E
C27	15.12	220.00	03°56'18"	7.56	15.12	N63°20'22"E
C28	114.76	718.00	09°09'28"	57.50	114.64	S24°16'25"E
C29	108.99	1518.00	04°06'50"	54.52	108.97	N01°31'04"E
C30	123.72	1468.00	04°49'44"	61.90	123.68	N01°28'27"E
C31	77.61	1468.00	03°01'44"	38.81	77.60	N02°27'17"W
C32	40.61	1468.00	01°35'06"	20.31	40.61	N04°45'43"W
C33	43.10	148.80	16°35'47"	21.70	42.95	N13°51'09"W
C34	80.43	530.00	08°41'43"	40.29	80.36	N17°48'11"W
C35	9.49	530.00	01°01'32"	4.74	9.49	N12°56'33"W
C36	32.95	1490.00	01°16'01"	16.48	32.95	N11°47'46"W
C37	10.05	1490.00	00°23'12"	5.03	10.05	N10°58'10"W
C38	87.90	1490.00	03°22'48"	43.96	87.88	N09°05'10"W
C39	88.66	1490.00	03°24'34"	44.34	88.65	N05°41'29"W
C40	85.49	1490.00	03°17'14"	42.76	85.48	N02°20'35"W
C41	65.51	1490.00	02°31'09"	32.76	65.51	N00°33'37"E
C42	4.78	1430.00	00°11'30"	2.39	4.78	S01°43'26"W
C43	187.10	1430.00	07°29'47"	93.68	186.96	S02°07'12"E
C44	139.36	58.00	142°35'18"	165.39	108.08	S77°09'45"E
C45	106.34	280.00	21°45'33"	53.82	105.70	S42°25'22"W
C46	26.31	280.00	05°22'58"	13.16	26.30	N55°59'38"E
C47	3.42	15.00	13°03'52"	1.72	3.41	S27°18'48"E
C48	12.79	45.00	16°16'52"	6.44	12.74	S12°38'26"E
C49	7.98	35.00	13°03'52"	4.01	7.96	S27°18'48"E
C50	18.47	65.00	16°16'52"	9.30	18.41	S12°38'26"E
C51	116.70	5741.63	01°09'52"	58.35	116.70	S86°03'09"W
C52	103.03	5741.63	01°01'41"	51.52	103.03	S84°57'22"W
C53	199.57	5741.63	01°59'29"	99.79	199.56	S83°26'46"W
C54	182.38	693.00	15°04'45"	91.72	181.86	N22°14'41"W
C55	89.27	450.00	11°21'57"	44.78	89.12	N20°23'17"W
C56	287.14	1493.00	11°01'09"	144.01	286.70	N01°46'59"W
C57	28.17	500.00	03°13'39"	14.09	28.16	N24°27'26"W
C58	119.04	500.00	13°38'29"	59.80	118.76	N19°15'01"W
C59	363.10	1460.00	14°14'59"	182.49	362.17	N05°18'18"W
C60	106.18	200.00	30°25'04"	54.37	104.94	N46°45'08"E
C61	142.50	250.00	32°39'33"	73.25	140.58	N47°52'22"E

RECEIVED
DEC 19 2001

RE-PLOTTED:



PERIMETER TREE LOCATION PLAN

NORTH SCALE 1" = 20'-0"

PLANT LIST

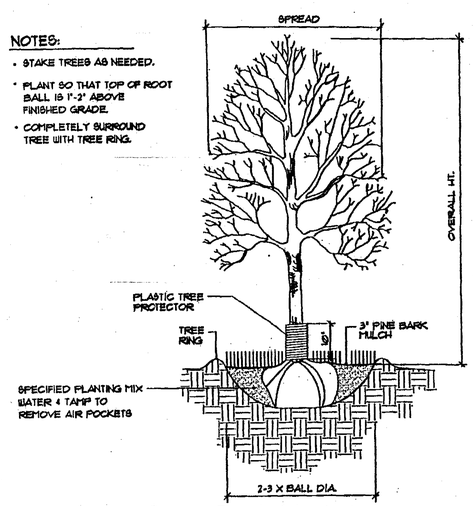
AESCULUS PAVIA	RED BUCKEYE	15g, 6-8' OA, 1" calip
CERCIS CANADENSIS	RED BUD	15g, 6-8' OA, 1" calip
CORNUS FLORIDA	DOGWOOD	15g, 6-8' OA, 1" calip
ILEX OPACA	AM. HOLLY	15g, 6-8' OA, 1" calip.

LANDSCAPE PLANTING NOTES:

1. LANDSCAPE CONTRACTOR SHALL CALL THE CITY PARKS DIVISION AT (352) 334-2711 TO SCHEDULE AN ON-SITE MEETING PRIOR TO PURCHASING ANY PLANT MATERIAL.
2. CONTRACTOR SHALL VERIFY THE LOCATION OF UTILITIES AND EXISTING TREES AND VEGETATION PRIOR TO THE COMMENCEMENT OF THE LANDSCAPE WORK.
3. THE CONTRACTOR SHALL PROTECT ALL TREES DESIGNATED TO BE SAVED FROM DAMAGE DURING CONSTRUCTION USING TREE BARRICADES WITH REASONABLE PROTECTION ZONES AS CONSTRUCTION PERMITS. NO STORAGE OF FUEL OR CONSTRUCTION MATERIALS SHALL BE PERMITTED AROUND TREES TO BE SAVED.
4. ALL TREES AND SHRUBS SHALL BE OF THE SIZES AS CALLED FOR IN THE LANDSCAPE MATERIAL SCHEDULE. ANY MATERIALS AS DETERMINED BY THE LANDSCAPE ARCHITECT AS NOT MEETING THE SIZES AND QUALITY AS CALLED FOR SHALL BE REMOVED FROM THE SITE.
5. ALL PLANT MATERIAL SHALL BE FLORIDA #1 OR BETTER AS OUTLINED BY GRADES AND STANDARDS FOR NURSERY PLANTS, DIVISION OF PLANT INDUSTRY, FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES. PLANT MATERIAL SHALL BE CLEARLY IDENTIFIED AS FLORIDA #1 OR BETTER ON EITHER LABELS OR INVOICES.
6. MULCH ALL DISTURBED AREA WITH THREE (3) INCH MINIMUM LAYER OF PINE BARK NUGGETS AS INDICATED.
7. WATER ALL PLANT MATERIAL IMMEDIATELY AFTER PLANTING. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE WATER AND IRRIGATION FUNCTIONING ADEQUATELY FROM THE TIME OF PLANTING UNTIL ONE YEAR AFTER ACCEPTANCE BY THE OWNER, TO INSURE THAT THE PLANT MATERIAL SURVIVES.
8. IF QUANTITIES DIFFER BETWEEN PLAN AND SCHEDULE, THOSE ON THE PLAN SHALL GOVERN. THE CONTRACTOR SHALL VERIFY THAT THE QUANTITIES INDICATED WILL PROVIDE THE COVERAGE AS SPECIFIED AND REPORT ANY DISCREPANCIES TO THE LANDSCAPE ARCHITECT AT THE TIME OF BIDDING.
9. ALL PLANT MATERIAL SHALL BE GUARANTEED ONE YEAR AFTER ACCEPTANCE BY THE OWNER.
10. ALL SHRUB MATERIAL SHALL BE PLANTED IN STAGGERED ROWS, SPACED ON CENTER (OC.) AS INDICATED.
11. WATERING WILL BE ACCOMPLISHED BY THE USE OF AN UNDERGROUND IRRIGATION SYSTEM.
12. ALL TREES SHALL BE STAKED AS NEEDED AND USING BIODEGRADABLE TWINE. THE LANDSCAPE CONTRACTOR WILL RETURN WITHIN ONE YEAR TO REMOVE STAKES.
13. OSMOCOTE "FLORIDA BLEND" SLOW RELEASE FERTILIZER IS TO BE INSTALLED IN EACH PLANTING HOLE PRIOR TO INSTALLATION OF ALL SHRUBS AND GROUND COVERS, FOLLOWING THE MANUFACTURERS SPECIFICATIONS.
14. ALL TREES WRAPPED IN BURLAP, PLANTING BAGS, OR ANY OTHER FABRIC WILL HAVE THIS MATERIAL CUT ON FOUR SIDES THE ENTIRE LENGTH OF THE BALL, AND MATERIAL REMOVED FROM THE SITE.
15. REMOVAL OF ALL CONSTRUCTION DEBRIS, LIMEROCK, EXCESS OF BUILDERS SAND, CONCRETE AND MORTAR DEBRIS, EXISTING WEEDS AND GRASSES, AND ALL FOREIGN MATERIALS IN THE PLANTING BED AND SOD AREAS SHALL BE REMOVED AND CLEAN FLORIDA FILL OF pH 5.5-6.5 SHALL BE INSTALLED PRIOR TO ANY INSTALLATION OF PLANTS OR TRE
16. ALL TREES IN SOD TO BE IN A (4) FOOT MINIMUM MULCHED RING AROUND TRUNK.
17. ALL TREES PLANTED IN SOD TO HAVE (10) INCH PLASTIC PROTECTOR (BLACK FLEXIBLE 6" PIPE) AROUND TRUNK BASE TO PROTECT FROM MOWING DAMAGE.
18. TREE HOLES WILL BE TWICE THE DIAMETER OF THE CONTAINER AND OF EQUAL DEPTH.

NOTES:

- STAKE TREES AS NEEDED.
- PLANT SO THAT TOP OF ROOT BALL IS 1"-2" ABOVE FINISHED GRADE.
- COMPLETELY SURROUND TREE WITH TREE RING.



TREE PLANTING DETAIL NTS

RECEIVED
DEC 19 2001
PAL

START DATE: PROJECT No.:

REVISIONS

MADERA CLUSTER DEVELOPMENT
GAINESVILLE, FLORIDA

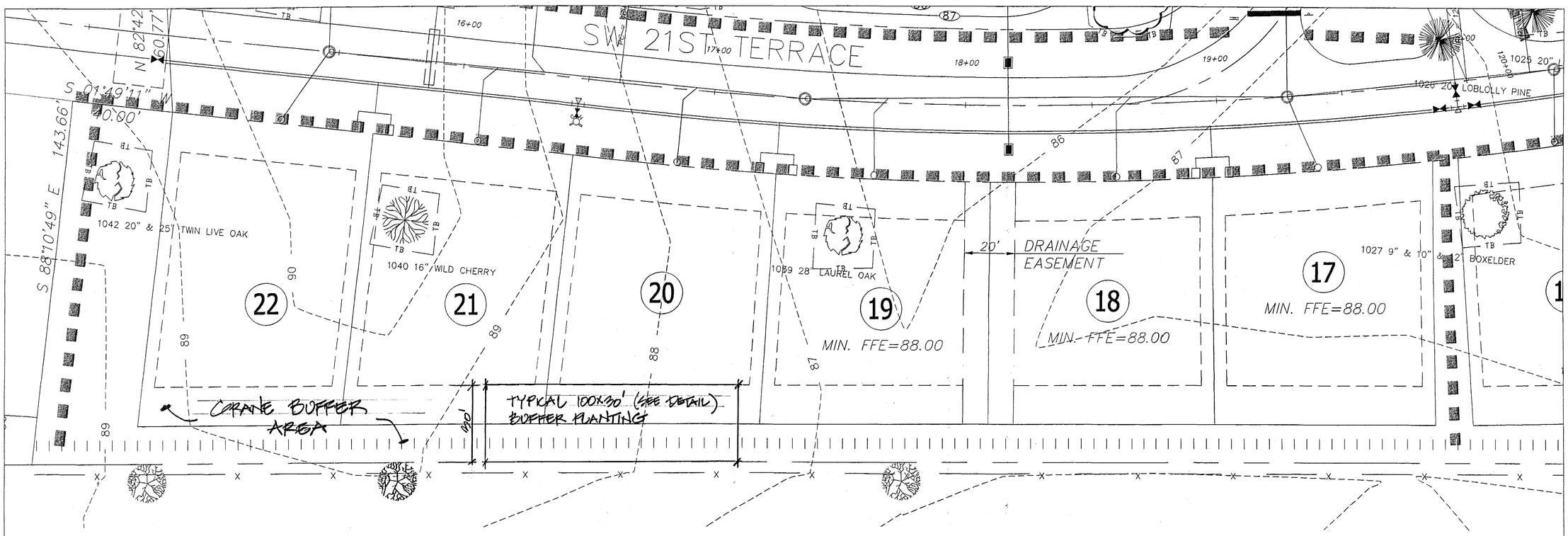
DAVID DOYLE, LANDSCAPE ARCHITECTURE
CHRISTIANS, FL 32709
407-862-1933

STORMWATER FACILITY #1
TREE LOCATION PLAN
12.19.01

DESIGNED BY: DMD
DRAWN BY: DMD
CHECKED BY:
PLOT DATE:
SCALE:

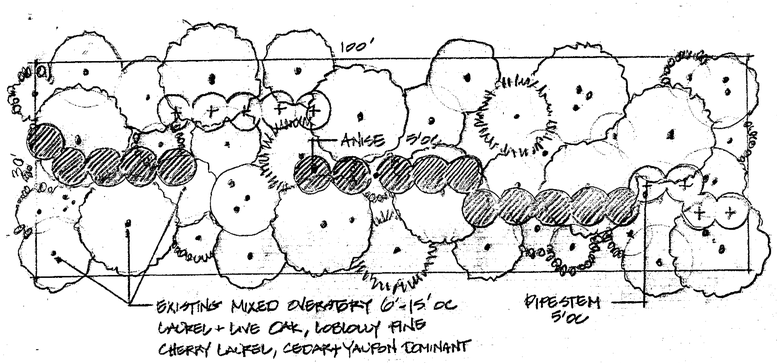
SHEET No. LS-1

RE-PLOTTED:



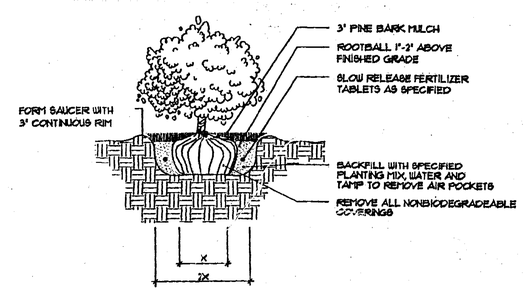
CRANE BUFFER PLANTING

NORTH SCALE 1" = 20'



TYPICAL 30' CRANE BUFFER PLANTING DETAIL

SCALE 1" = 10'-0"



SHRUB PLANTING DETAIL

SCALE: NOT TO SCALE

PLANT LIST

ILLICIUM PARVIFLORUM	YELLOW ANISE	3-7g	24-30" OA, 5'OC
AGARISTA PYRULIFOLIA	PIFE STEM	3-7g	24-30" OA, 5'OC

RECEIVED DEC 19 2001 PAL

START DATE: PROJECT No.:

REVISIONS

NOT APPROVED FOR CONSTRUCTION UNTIL SIGNED IN RED INK

MADERA CLUSTER DEVELOPMENT
GAINESVILLE, FLORIDA

DAVID DRYLIE, LANDSCAPE ARCHITECT
GAINESVILLE, FL 32609
407-568-1333

CRANE BUFFER PLANTING DETAILS
12.14.01

DESIGNED BY:
DRAWN BY:
CHECKED BY:
PLOT DATE:
SCALE:

SHEET No. LS-2