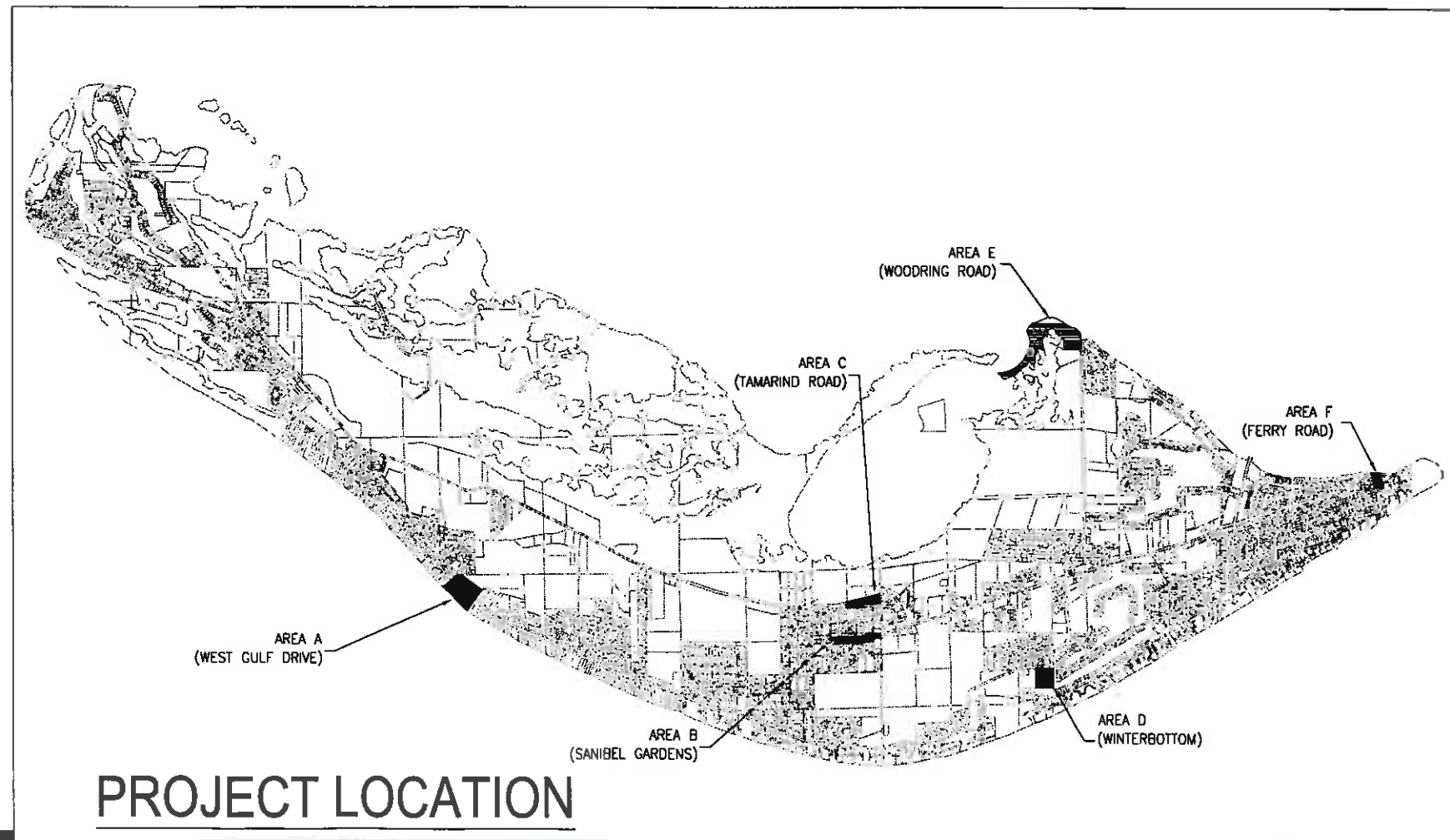
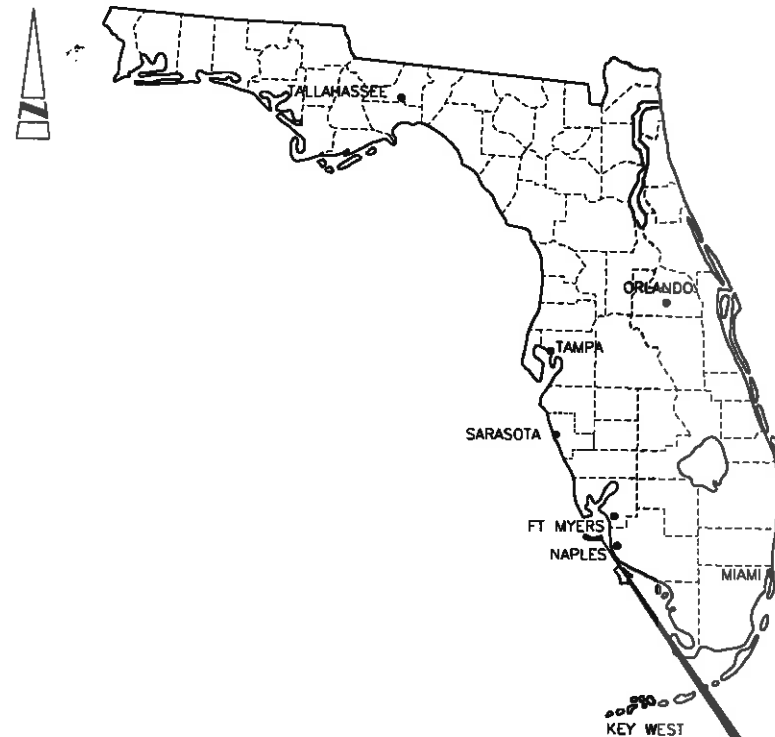


SANIBEL SEWER SYSTEM EXPANSION PROJECT PHASE 4



PROJECT LOCATION

BOYLE
ENGINEERING CORPORATION

4415 Metro Parkway, Suite 404
Fort Myers, Florida 33916 FL
Engineering Business No. EB-2007
Telephone: (239) 278-7996

ISSUED FOR BIDDING

NOT TO BE USED FOR CONSTRUCTION

ALFRED J. MITTL, PE #59913
PROJECT MANAGER

JUNE 12, 2008

Alfred J. Mittl 7/25/08
SIGNATURE DATE

USFPA: 10/10/08
Sanibel Engineering
Sanibel Engineering

SHT. NO.	DWG ID	DRAWING DESCRIPTION	SHT. NO.	DWG ID	DRAWING DESCRIPTION
1	G-001	COVER SHEET			
2	G-002	INDEX & DRAFTING LEGEND			
3	G-003	GENERAL NOTES			
4	G-004	DRAWING KEY SHEET LOW PRESSURE SYSTEMS			
5	G-005	DRAWING KEY SHEET GRAVITY SYSTEMS			
6	C-101	AREA A LAYOUT KEY - WEST GULF DRIVE			
7	C-102	AREA A LAYOUT 1 - WEST GULF DRIVE			
8	C-103	AREA B LAYOUT KEY - SANIBEL GARDENS			
9	C-104	AREA B LAYOUT 1 - SANIBEL GARDENS			
10	C-105	AREA B LAYOUT 2 - SANIBEL GARDENS			
11	C-106	AREA B LAYOUT 3 - SANIBEL GARDENS			
12	C-107	AREA C LAYOUT KEY - TAMARIND ROAD			
13	C-108	AREA C LAYOUT 1 - TAMARIND ROAD			
14	C-109	AREA C LAYOUT 2 - TAMARIND ROAD			
15	C-110	AREA C LAYOUT 3 - TAMARIND ROAD			
16	C-111	AREA D LAYOUT KEY - WINTERBOTTOM			
17	C-112	AREA D LAYOUT 1 - WINTERBOTTOM			
18	C-113	AREA D LAYOUT 2 - WINTERBOTTOM			
19	C-114	AREA E LAYOUT KEY - WOODRING ROAD			
20	C-115	AREA E LAYOUT 1 - WOODRING ROAD			
21	C-116	AREA E LAYOUT 2 - WOODRING ROAD			
22	C-117	AREA E LAYOUT 3 - WOODRING ROAD			
23	C-118	AREA E LAYOUT 4 - WOODRING ROAD			
24	C-119	AREA E LAYOUT 5 - WOODRING ROAD			
25	C-120	AREA E LAYOUT 6 - WOODRING ROAD			
26	C-121	AREA E LAYOUT 7 - WOODRING ROAD			
27	C-122	AREA E LAYOUT 8 - WOODRING ROAD			
28	C-123	AREA E LAYOUT 9 - WOODRING ROAD			
29	C-124	AREA F LAYOUT KEY - FERRY ROAD			
30	C-125	AREA F LAYOUT 1 - FERRY ROAD			
31	C-501	DETAILS			
32	C-502	DETAILS			
33	C-503	DETAILS			
34	C-504	FIBERGLASS LIFT STATION DETAILS			
35	C-505	PRECAST CONCRETE LIFT STATION DETAILS			
36	E-001	ELECTRICAL SYMBOLS AND ABBREVIATIONS			
37	E-101	AREA A ELECTRICAL PLAN - WEST GULF DRIVE			
38	E-102	AREA B ELECTRICAL PLAN 1 - SANIBEL GARDENS			
39	E-103	AREA B ELECTRICAL PLAN 2 - SANIBEL GARDENS			
40	E-104	AREA C ELECTRICAL PLAN - TAMARIND ROAD			
41	E-105	AREA D ELECTRICAL PLAN - WINTERBOTTOM			
42	E-106	AREA E ELECTRICAL PLAN 1 - WOODRING ROAD			
43	E-107	AREA E ELECTRICAL PLAN 2 - WOODRING ROAD			
44	E-108	AREA E ELECTRICAL PLAN 3 - WOODRING ROAD			
45	E-109	AREA E ELECTRICAL PLAN 4 - WOODRING ROAD			
46	E-110	AREA E ELECTRICAL PLAN 5 - WOODRING ROAD			
47	E-111	AREA H ELECTRICAL PLAN - FERRY ROAD			
48	E-501	TYPE I GRINDER PUMP CONTROL PANEL DETAILS			
49	E-502	TYPE II GRINDER PUMP CONTROL PANEL DETAILS			
50	E-503	TYPE I GRINDER PUMP CONTROL PANEL DETAILS INSTALLATION DETAILS			
51	E-504	TYPE II GRINDER PUMP CONTROL PANEL DETAILS INSTALLATION DETAILS			
52	E-505	SUBMERSIBLE PUMP CONTROL PANEL DETAILS			
53	E-506	SUBMERSIBLE PUMP CONTROL PANEL INSTALLATION DETAILS			
54	E-507	ELECTRICAL DETAILS			

DRAFTING LEGEND

EXISTING	NEW
BASELINE RIGHT OF WAY PROPERTY LINE EASEMENT LINE CENTERLINE SANITARY FORCE MAIN SANITARY GRAVITY SEWER WATER MAIN NONPOTABLE WATER MAIN GAS MAIN STORM DRAIN RAW WATER MAIN GUY WIRE and ANCHOR SURVEY REFERENCE VALVES PIPE CULVERT CATV RISER TELEPHONE RISER WATER METER WATER VALVE FIRE HYDRANT TRANSFORMER ANCHOR DRAINAGE INLET SEAGRAPE UNKNOWN CITRUS PINE GUMBO LIMBO PALM OAK BANYON CLEANOUT MAILBOX SIGN SANITARY MANHOLE DRAINAGE MANHOLE ELECTRIC BOX CONCRETE POLE LIGHT POLE ORNAMENTAL AUSTRALIAN PINE MYRTLE	PROJECT BASELINE SANITARY FORCE MAIN SANITARY GRAVITY SEWER WATER MAIN STORM DRAIN SWALE VALVE REDUCER BEND (FITTING) PLUG, WYE TEE, CROSS PRECAST CONCRETE LIFT STATION WET WELL AND VALVE VAULT DUPLEX FIBERGLASS LIFT STATION WET WELL AND VALVE VAULT SIMPLEX FIBERGLASS LIFT STATION WET WELL AND VALVE VAULT SANITARY SEWER MANHOLE

DRAFTING SYMBOLOGY

SECTION LETTER DRAWING NUMBER ON WHICH SECTION IS SHOWN. A DASH (-) INDICATES THAT SECTION IS SHOWN ON THE SAME SHEET.	WATER SURFACE ELEVATION NORTH ARROW DETAIL NUMBER DRAWING NUMBER ON WHICH DETAIL IS SHOWN. A DASH (-) INDICATES THAT DETAIL IS SHOWN ON THE SAME SHEET.	DETAIL SCALE: 1/4" = 1'-0"
---	--	--

ISSUED FOR BIDDING
NOT TO BE USED FOR CONSTRUCTION

DESIGNED BY	VFS	PROJECT ENGINEER	ALFRED J. MITTL, PE
DRAWN BY	ARM	REG. NUMBER	59913
CHECKED BY	AJM	EXP. DATE	02/28/09
DATE	6/12/08	PROJECT NUMBER	20117.01
		WALD STANDARDS	BOYLE

BOYLE
ENGINEERING CORPORATION
4415 Metro Parkway, Suite 404
Fort Myers, Florida 33916
Tel: (239) 278-7996 Fax: (239) 278-0913
FL Engineering Business Number EB-2005
WWW.BOLEENGINEERING.COM



City of Sanibel
650 Dunlop Road
Sanibel, Florida 33957
Phone (239) 472-6297
Fax (239) 472-6341

SANIBEL SEWER SYSTEM EXPANSION PROJECT
PHASE 4

INDEX & DRAFTING LEGEND

G-002
2
OF 54 SHEETS

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- ## PIPING AND FITTINGS

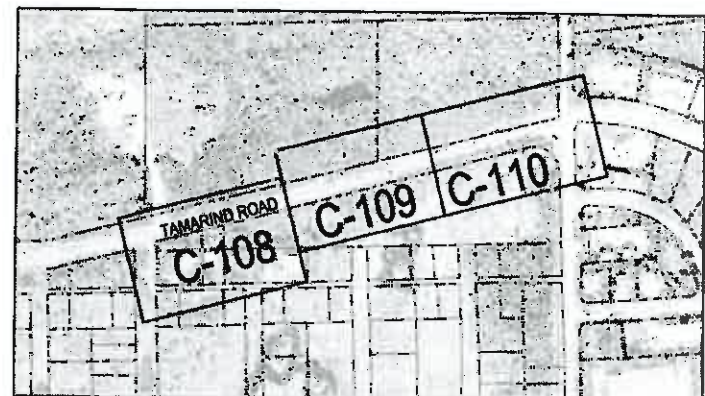
- ## SANITARY LATERALS

- Countdown
7/25/08

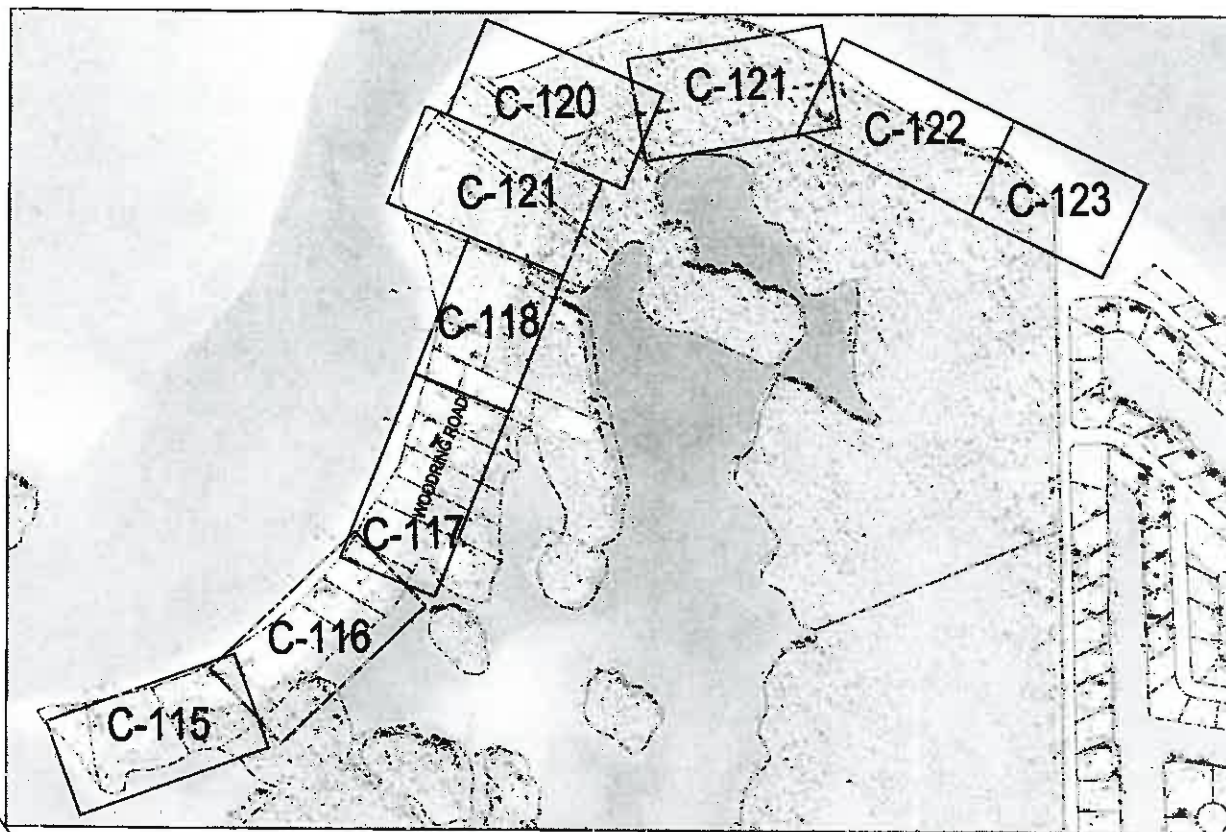
EXCAVATION LIMITS - TEMPORARY RESTORATION - FINAL RESTORATION

1. THE LENGTH OF OPEN OR EXCAVATED TRENCH FOR SANITARY SEWER OR FORCE MAIN CONSTRUCTION IS LIMITED TO 300 FEET (150 FEET WHERE PIPE HAS BEEN INSTALLED AND 150 FEET IN ADVANCE OF PIPE LAYING). UNDER NO CIRCUMSTANCES SHALL TRENCH EXCAVATION EXCEED THIS LENGTH.
2. AT THE END OF EACH WORKING DAY, TRENCHES AND EXCAVATIONS SHALL BE BACKFILLED. UNDER NO CIRCUMSTANCES SHALL TRENCHES REMAIN OPEN AT THE END OF THE WORKING DAY.
3. TRENCHES SHALL BE BACKFILLED, COMPACTED, BROUGHT TO GRADE (WITH BASE AS REQUIRED), GRADED AND SEALED (SAND AND PRIMER SEAL ON PAVED ROADS) WITHIN 24 HOURS AFTER UTILITY CONSTRUCTION. THIS TEMPORARY RESTORATION SHALL BE MAINTAINED BY THE CONTRACTOR TO ALLOW NORMAL TRAFFIC UNTIL FINAL RESTORATION IS CONSTRUCTED.
4. NO MORE THAN TWO (2) AREAS AS SHOWN ON G-1 COVER SHEET MAY BE UNDER CONSTRUCTION AT ANY GIVEN TIME.
5. THE CONTRACTOR SHALL NOT PLACE ANY FILL MATERIALS WITHIN A WETTED DITCH OR WETLAND AREA WHEN WORKING ADJACENT TO EITHER TYPE OF AREA.
6. DEWATERING MAY BE REQUIRED IN SOME AREAS TO ACHIEVE THE NECESSARY EXCAVATION AND SUBSEQUENT CONSTRUCTION, BACKFILLING, AND COMPACTING. DEWATERING WILL BE INCLUDED IN THE PIPE BID ITEM. NO EXTRA COMPENSATION FOR DEWATERING WILL BE ALLOWED. CONTRACTOR WILL BE RESPONSIBLE FOR OBTAINING ANY NECESSARY DEWATERING PERMIT. ALL DEWATERING SHALL BE IN ACCORDANCE WITH 01065. THERE ARE VARIOUS STRETCHES OF WETLAND AREAS WHICH SHALL NOT RECEIVE ANY REMOVED WATER.
7. PRIOR TO HIS/HER BID PREPARATION, THE CONTRACTOR MUST FAMILIARIZE HIM/HERSELF WITH THE GEOTECHNICAL ENGINEERING ANALYSIS AND REPORT AND THE OVERALL SITE CONDITION AS HE/SHE DETERMINES NECESSARY TO UNDERSTAND THE LIMIT AND DEPTH OF EXPECTED ORGANIC SILT PEAT AREAS, ADEQUACY OF EXISTING MATERIALS AS FILL, DEWATERING REQUIREMENTS, CLEAN FILL REQUIRED FROM OFFSITE, AND MATERIALS TO BE DISPOSED OF OFFSITE ALL OF WHICH WILL AFFECT HIS/HER PRICING. ANY DELAY, INCONVENIENCE OR ADDITIONAL EXPENSE CAUSED TO THE CONTRACTOR DUE TO INADEQUATE INVESTIGATION OF EXISTING CONDITIONS SHALL BE INCIDENTAL TO THE CONTRACT AND NO EXTRA COMPENSATION WILL BE ALLOWED. THE MATERIALS ANTICIPATED TO BE ENCOUNTERED DURING CONSTRUCTION MAY REQUIRE DRYING PRIOR TO USE AS BACKFILL AND THE CONTRACTOR MAY HAVE TO BRING IN MATERIALS AT NO EXTRA COST FROM OFFSITE TO MEET THE REQUIREMENTS FOR COMPACTION AND PROPER FILL.
8. NATIVE AND ORNAMENTAL TREES 8 INCHES OR LESS AFFECTED BY CONSTRUCTION SHALL BE INVENTORIED AND REPLACED WITH NURSERY GRADE TREES; NATIVE TREES GREATER THAN 8 INCHES SHALL BE RELOCATED. NON-NATIVE VEGETATION SHALL BE REMOVED AND DISPOSED OF IN PROPER MANNER. THE COSTS FOR VEGETATION RESTORATION OR REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE FOR PIPELINE CONSTRUCTION. NO SEPARATE PAYMENT FOR VEGETATION RESTORATION SHALL BE MADE. CONTRACTOR OR SUBCONTRACTOR INVOLVED IN LANDSCAPE RESTORATION.
9. EXISTING STORM SEWERS AFFECTED BY CONSTRUCTION SHALL BE REPLACED TO THE LINE AND GRADE OF EXISTING STORM SEWER WITH EQUAL OR BETTER MATERIALS. THE COSTS FOR STORM SEWER RESTORATION SHALL BE INCLUDED IN THE UNIT PRICE FOR PIPELINE CONSTRUCTION. NO SEPARATE PAYMENT FOR STORM SEWER RESTORATION SHALL BE MADE.
10. AIR RELEASE AND VACUUM VALVES SHALL BE INSTALLED BY THE CONTRACTOR AT THE DIRECTION OF THE ENGINEER UPON RECEIPT OF THE FORCE MAIN AS-BUILT INFORMATION.

                                		DESIGNED BY VFS DRAWN BY ARM CHECKED BY AJM DATE 6/12/08	PROJECT ENGINEER ALFRED J. MITTL, PE REG. NUMBER 59913 PROJECT NUMBER 20117.01 CALS. STANDARDS BOYLE	EXP. DATE 02/28/09 CITY OF SANIBEL BOYLE ENGINEERING CORPORATION 4415 Metro Parkway, Suite 404 Fort Myers, Florida 33916 Tel: (239) 278-7986 Fax: (239) 278-0513 FL Engineering Business Number EB-3005 WWW.BOYLEENGINEERING.COM		City of Sanibel 800 Dunlap Road Sanibel, Florida 33557 Phone: (239) 472-0307 Fax: (239) 472-6011	NOT TO BE USED FOR CONSTRUCTION SANIBEL SEWER SYSTEM EXPANSION PROJECT PHASE 4 GENERAL NOTES	DRAWING G-003 SHEET 3 OF 54 SHEETS
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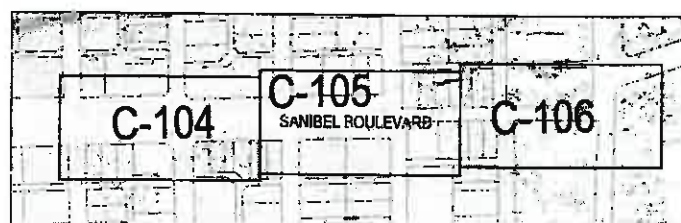
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(TAMARIND ROAD)



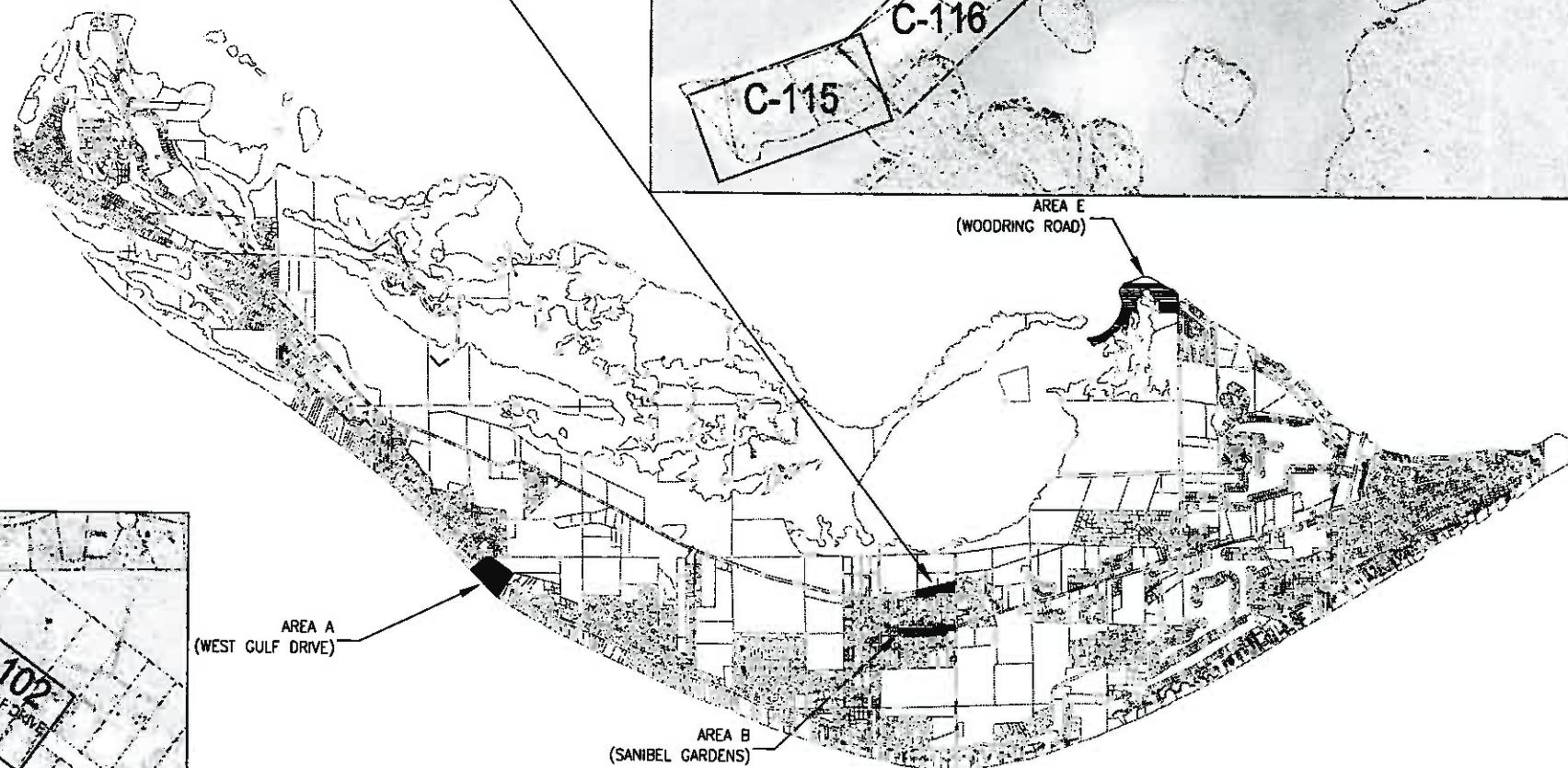
AREA E
(WOODRING ROAD)



AREA A
(WEST GULF DRIVE)



AREA B
(SANIBEL GARDENS)



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SANIBEL SEWER SYSTEM EXPANSION PROJECT
PHASE 4

G-004

DRAWING KEY SHEET
LOW PRESSURE SYSTEMS

4
OF 54 SHEETS

VERIFY SCALES

BAR IS ONE INCH
ON ORIGINAL DRAWING

IF NOT ONE INCH ON
THIS SHEET, ADJUST
SCALES ACCORDINGLY

DESIGNED BY

VFS

DRAWN BY

ARM

CHECKED BY

AJM

DATE

6/12/08

PROJECT ENGINEER

ALFRED J. MITTL, PE

REG. NUMBER

59913

EXP. DATE

02/28/09

PROJECT NUMBER

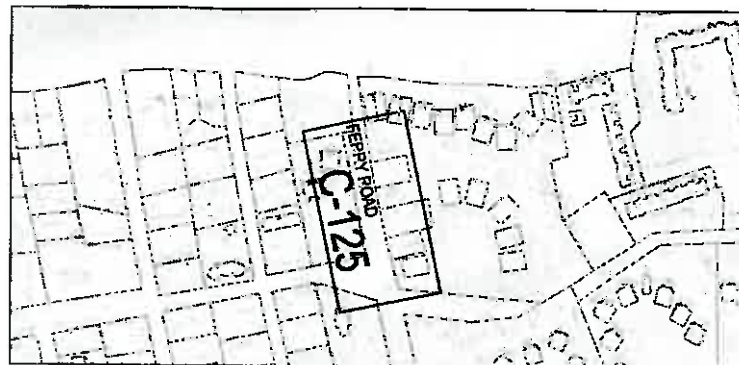
20117.01

CA3D STANDARDS

BOYLE



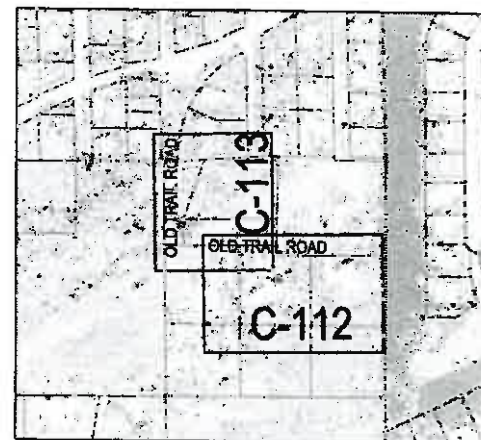
City of Sanibel
800 Dunlap Road
Sanibel, Florida 33957
Phone (239) 472-6397
Fax (239) 472-6011



AREA F
(FERRY ROAD)



AREA D
(WINTERBOTTOM)



ISSUED FOR BIDDING

NOT TO BE USED FOR CONSTRUCTION

VERIFY SCALES

BAR IS ONE INCH
ON ORIGINAL DRAWING

IF NOT ONE INCH ON
THIS SHEET, ADJUST
SCALES ACCORDINGLY

DESIGNED BY

VFS

PROJECT ENGINEER

ALFRED J. MITTL, PE

DRAWN BY

ARM

REG NUMBER

59913

EXP DATE

02/28/09

CHECKED BY

AJM

PROJECT NUMBER

20117.01

DATE

6/12/08

CADD STANDARDS

BOYLE



City of Sanibel

640 Dunlap Road
Sanibel, Florida 33957
Phone (239) 472-6397
Fax (239) 472-6041

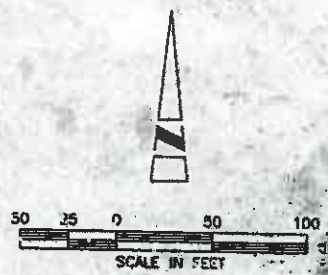
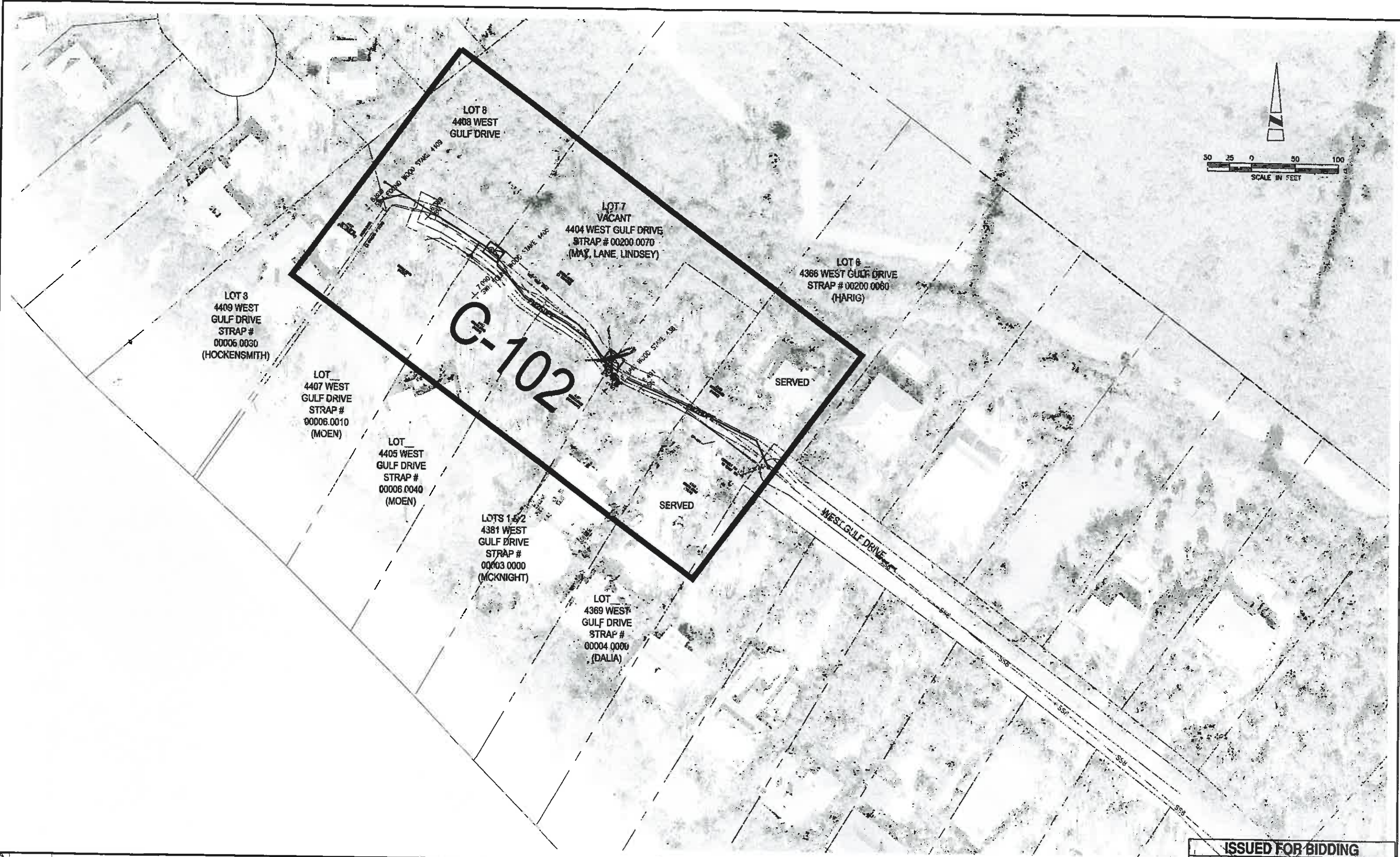
SANIBEL SEWER SYSTEM EXPANSION PROJECT
PHASE 4

DRAWING KEY SHEET
GRAVITY SYSTEMS

DRAWING
G-005

SHEET
5
OF 54 SHEETS

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MI Utilities Logo.TIF Sanibel Logo.dwg
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4622.sld



C-102

ISSUED FOR BIDDING
NOT TO BE USED FOR CONSTRUCTION

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XREFS: MSP-BD WEST GULF DRIVE
topo-11 IMAGE: Sanibel Logo.dwg unbid logo.dwg 4622.dwg 4622.dwg

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IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY		CHECKED BY	AJM	EXP. DATE	02/28/09
		DATE	6/12/08	PROJECT NUMBER	20117.01
		APP'R		CADD STANDARDS	BOYLE

original mittl 7/25/08

BOYLE
ENGINEERING CORPORATION
4415 Metro Parkway, Suite 404
Fort Myers, Florida 33916
Tel: (239) 278-7996 Fax: (239) 278-0913
FL Engineering Business Number EB-2005
WWW.BOYLEENGINEERING.COM



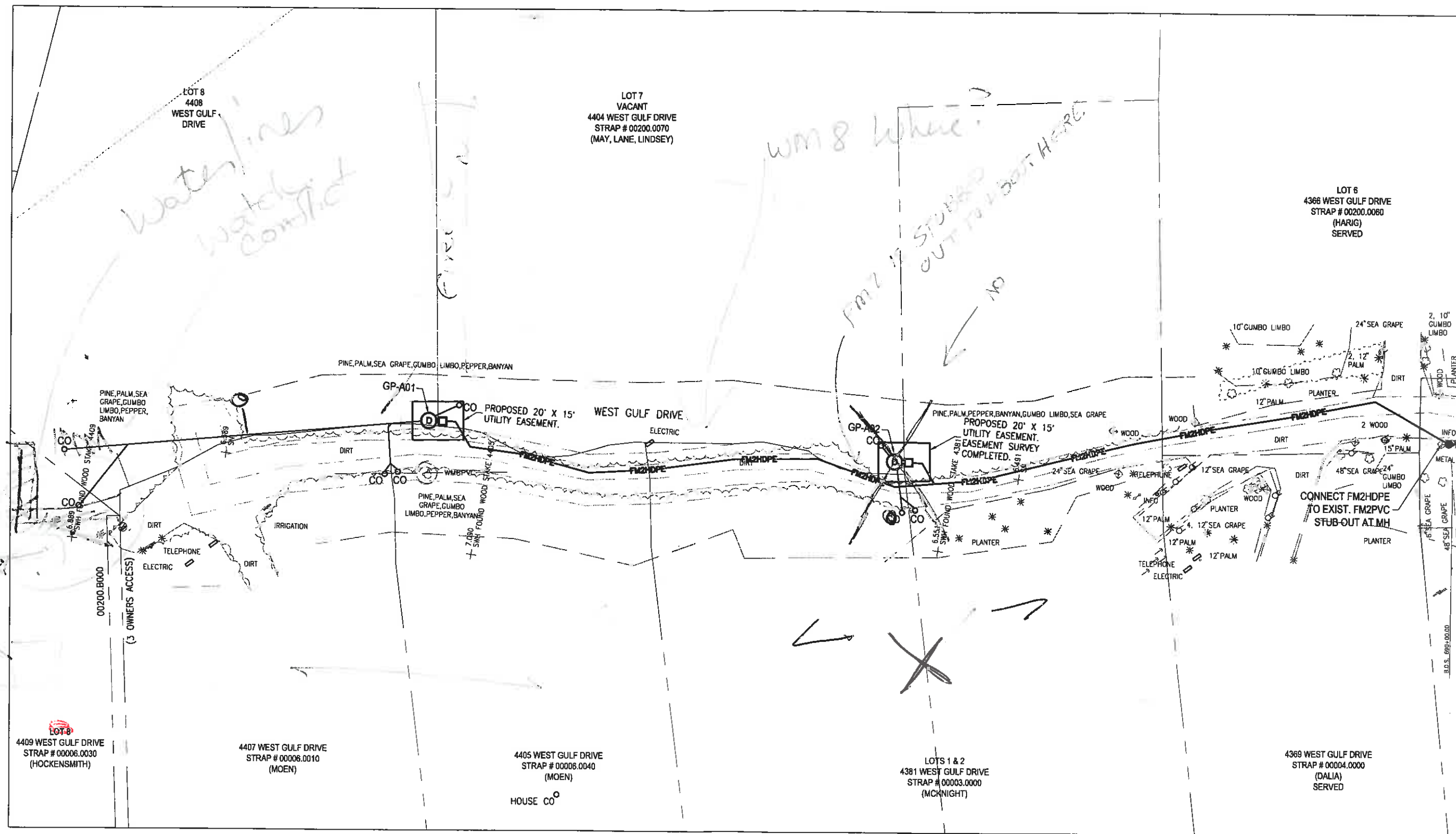
City of Sanibel
800 Dunlap Road
Sanibel, Florida 33957
Phone (239) 472-6397
Fax (239) 472-6041

SANIBEL SEWER SYSTEM EXPANSION PROJECT
PHASE 4

AREA A LAYOUT KEY
WEST GULF DRIVE

C-101
SHEET
6
OF 54 SHEETS

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ISSUED FOR BIDDING
NOT TO BE USED FOR CONSTRUCTION

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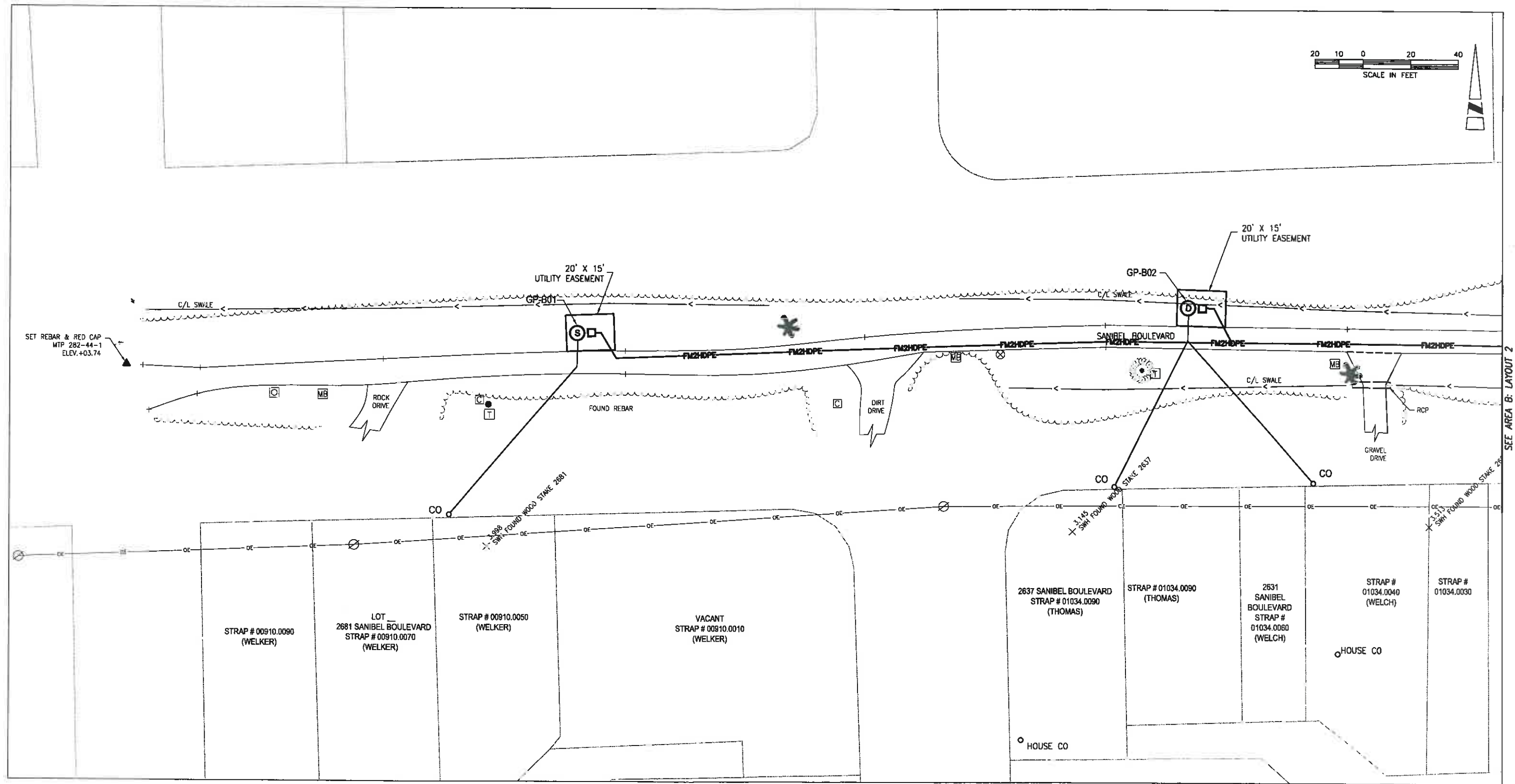
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DATE	6/12/08	PROJECT NUMBER	20117.01
		CADD STANDARD	BOYLE

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ENGINEERING CORPORATION
4415 Metro Parkway, Suite 404
Fort Myers, Florida 33915
Tel: (239) 278-7996 Fax: (239) 278-0913
FL Engineering Business Number EB-2005
WWW.BOYLEENGINEERING.COM

City of Sanibel
800 Dunlap Road
Sanibel, Florida 33957
Phone: (239) 472-0397
Fax: (239) 472-6741

SANIBEL SEWER SYSTEM EXPANSION PROJECT PHASE 4		DRAWING C-102
AREA A LAYOUT 1 WEST GULF DRIVE		SHEET 7 OF 54 SHEETS

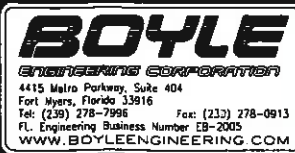
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OF 54 SHEETS



ISSUED FOR BIDDING
NOT TO BE USED FOR CONSTRUCTION

DESIGNED BY	VFS	PROJECT ENGINEER	ALFRED J. MITTL, PE
DRAWN BY	ARM	P&G NUMBER	59913
CHECKED BY	AJM	EXP DATE	02/28/09
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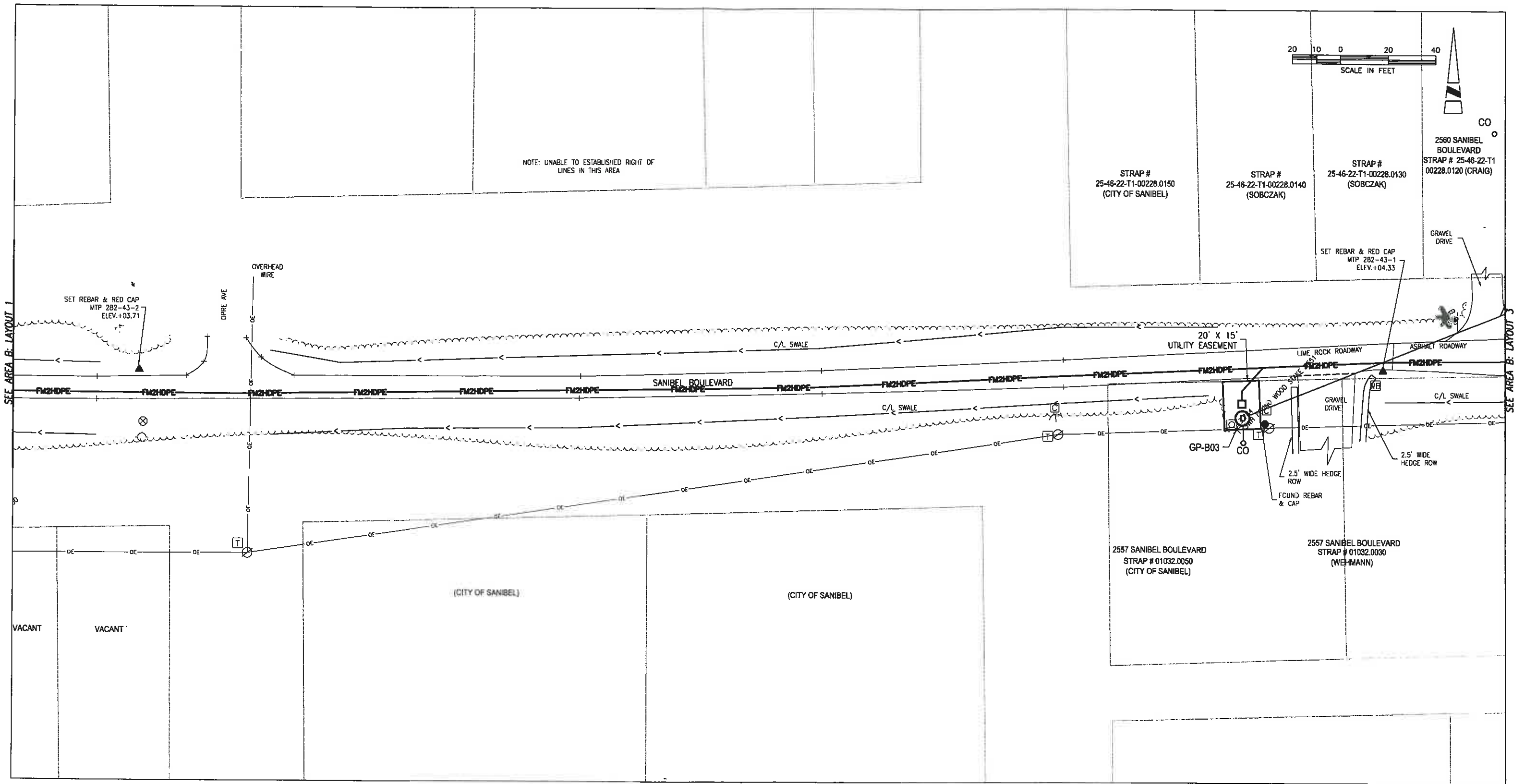
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7/25/08



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Sanibel, Florida 33957
Phone (239) 472-6397
Fax (239) 472-6041

SANIBEL SEWER SYSTEM EXPANSION PROJECT PHASE 4	DRAWING C-104
AREA B LAYOUT 1 SANIBEL GARDENS	SHEET 9 OF 54 SHEETS

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SANIBEL GARDENS
MAGES: bcommsat.gi



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NOT TO BE USED FOR CONSTRUCTION

DESIGNED BY	VFS	PROJECT ENGINEER	ALFRED J. MITTL, PE
DRAWN BY	ARM	REG NUMBER	59913
CHIEFED BY	AJM	EXP DATE	02/28/09
DATE	6/12/08	PROJECT NUMBER	20117.01
		STANDARD	BOYLE

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ENGINEERING CORPORATION
4415 Metro Parkway, Suite 404
Fort Myers, Florida 33916
Tel: (239) 278-7996 Fax: (239) 278-0913
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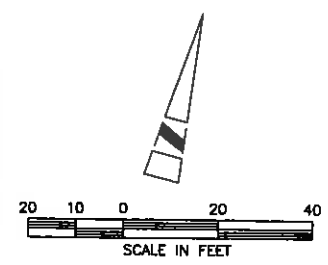
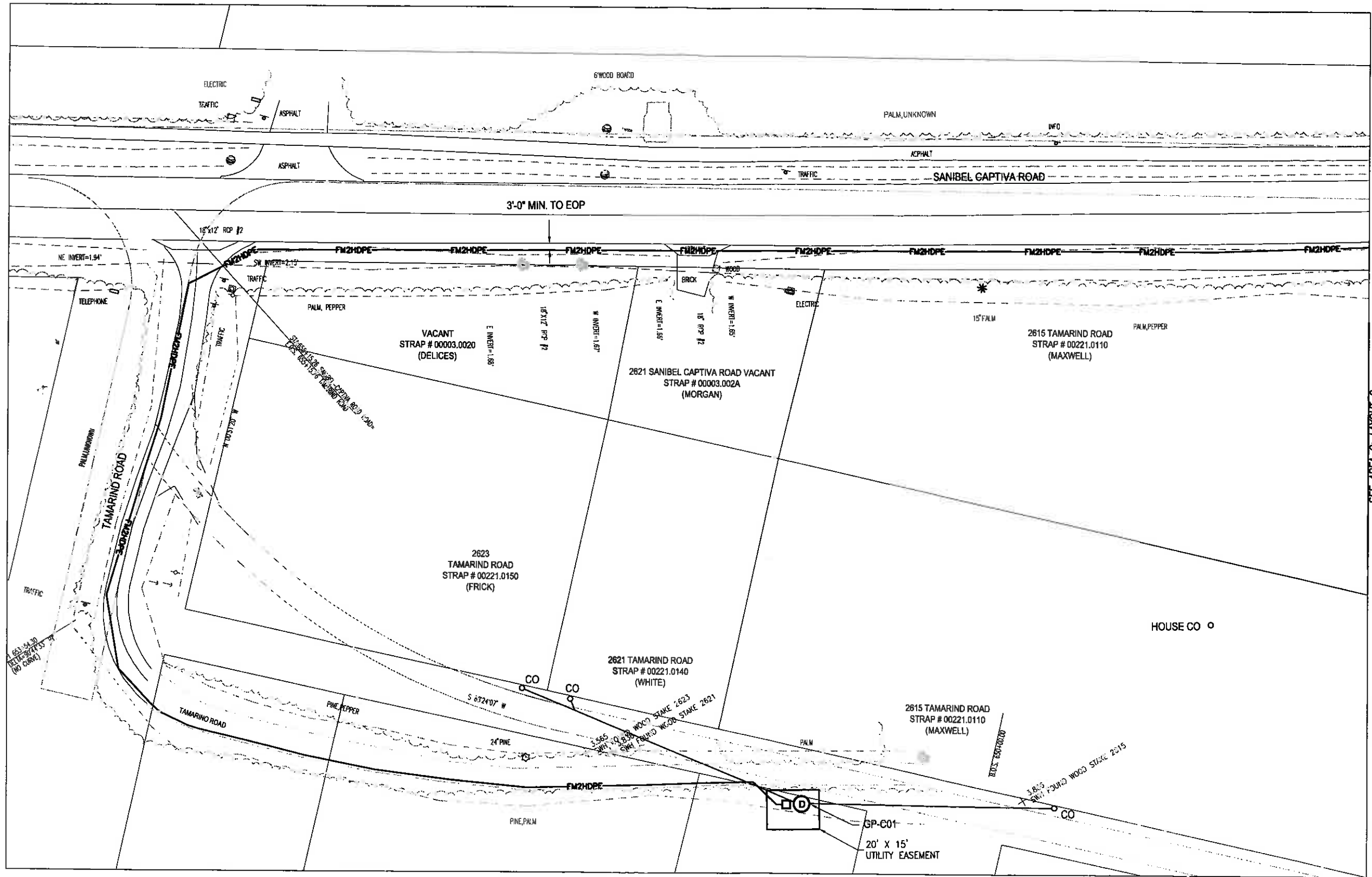


City of Sanibel
800 Dunlop Road
Sanibel, Florida 33957
Phone (239) 472-6007
Fax (239) 472-6041

SANIBEL SEWER SYSTEM EXPANSION PROJECT
PHASE 4

AREA B LAYOUT 2
SANIBEL GARDENS

C-105
SHEET
10
OF 54 SHEETS



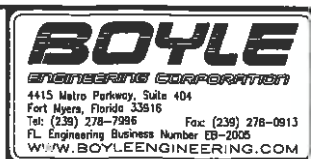
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 CHECKED BY: AJM
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 PROJECT NUMBER: 20117.01
 PROJECT ENGINEER: ALFRED J. MITTL, PE
 EXP. DATE: 02/28/09
 BOYLE ENGINEERING CORPORATION
 4415 Metro Parkway, Suite 404
 Fort Myers, Florida 33916
 Tel: (239) 278-7986 Fax: (239) 278-0913
 FL Engineering Business Number EB-2005
 WWW.BOYLEENGINEERING.COM

REV	DATE	DESCRIPTION
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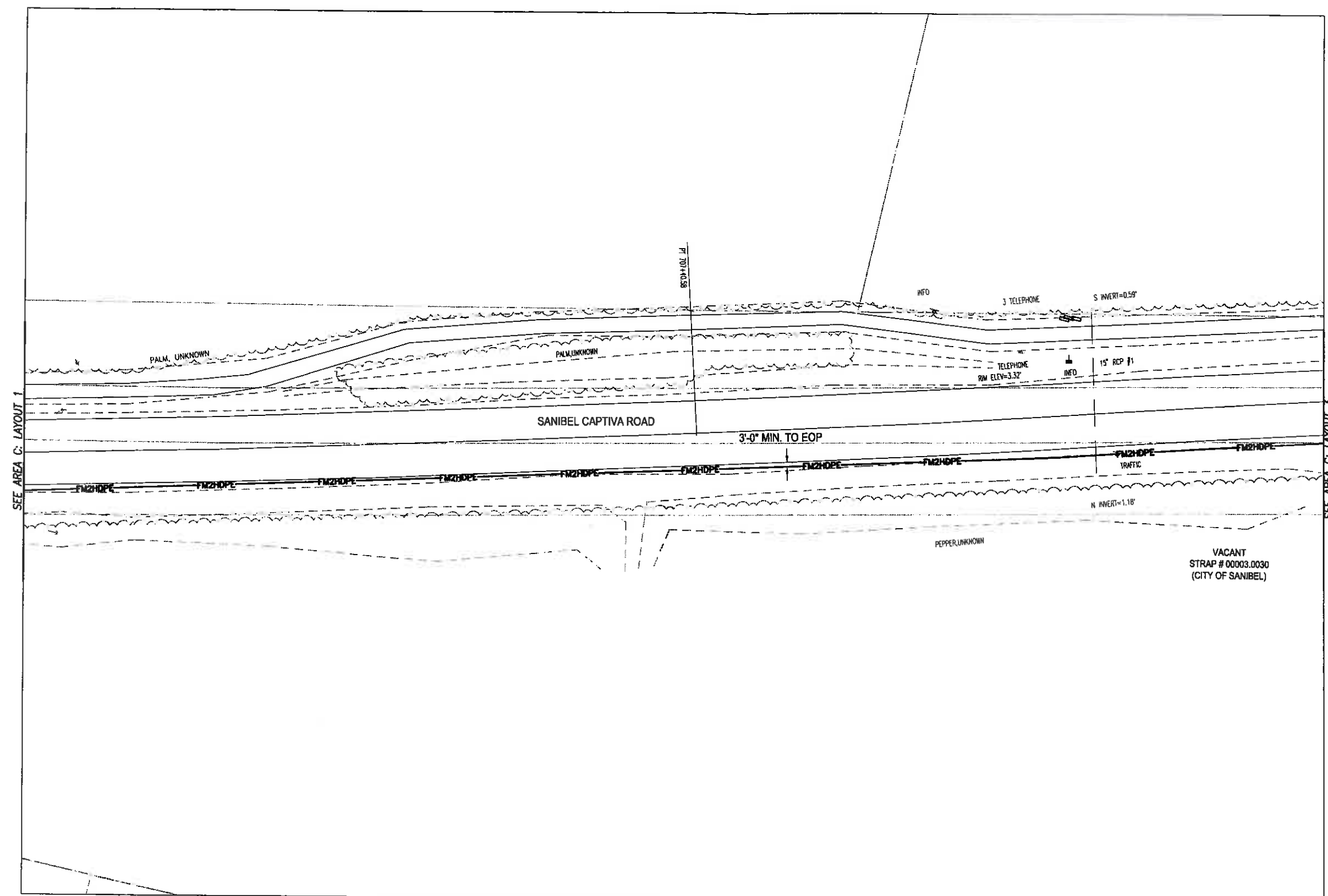
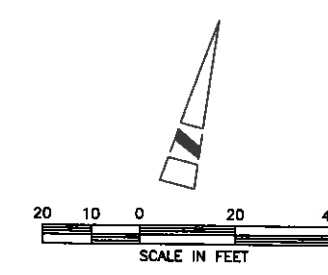
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CHECKED BY	ARM	EXP. DATE	02/28/09
DATE	6/12/08	PROJECT NUMBER	20117.01
		CADD STANDARDS	BOYLE

7/25/08
 20' X 15' UTILITY EASEMENT



City of Sanibel
 800 Dunlop Road
 Sanibel, Florida 33957
 Phone (239) 72-6397
 Fax (239) 472-6941

ISSUED FOR BIDDING NOT TO BE USED FOR CONSTRUCTION		DRAWING	C-108
SANIBEL SEWER SYSTEM EXPANSION PROJECT PHASE 4		SHEET	13
AREA C LAYOUT 1 TAMARIND ROAD		OF 54 SHEETS	



SEE AREA C: LAYOUT 1

SEE AREA C: LAYOUT 3

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NOT TO BE USED FOR CONSTRUCTION

VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	DESIGNED BY	VFS	PROJECT ENGINEER	ALFRED J. MITTL, PE
	DRAWN BY	ARM	REV. NUMBER	59913
	CHECKED BY	AJM	PROJECT NUMBER	20117.01
	DATE	6/12/08	CITY STANDARDS	BOYLE

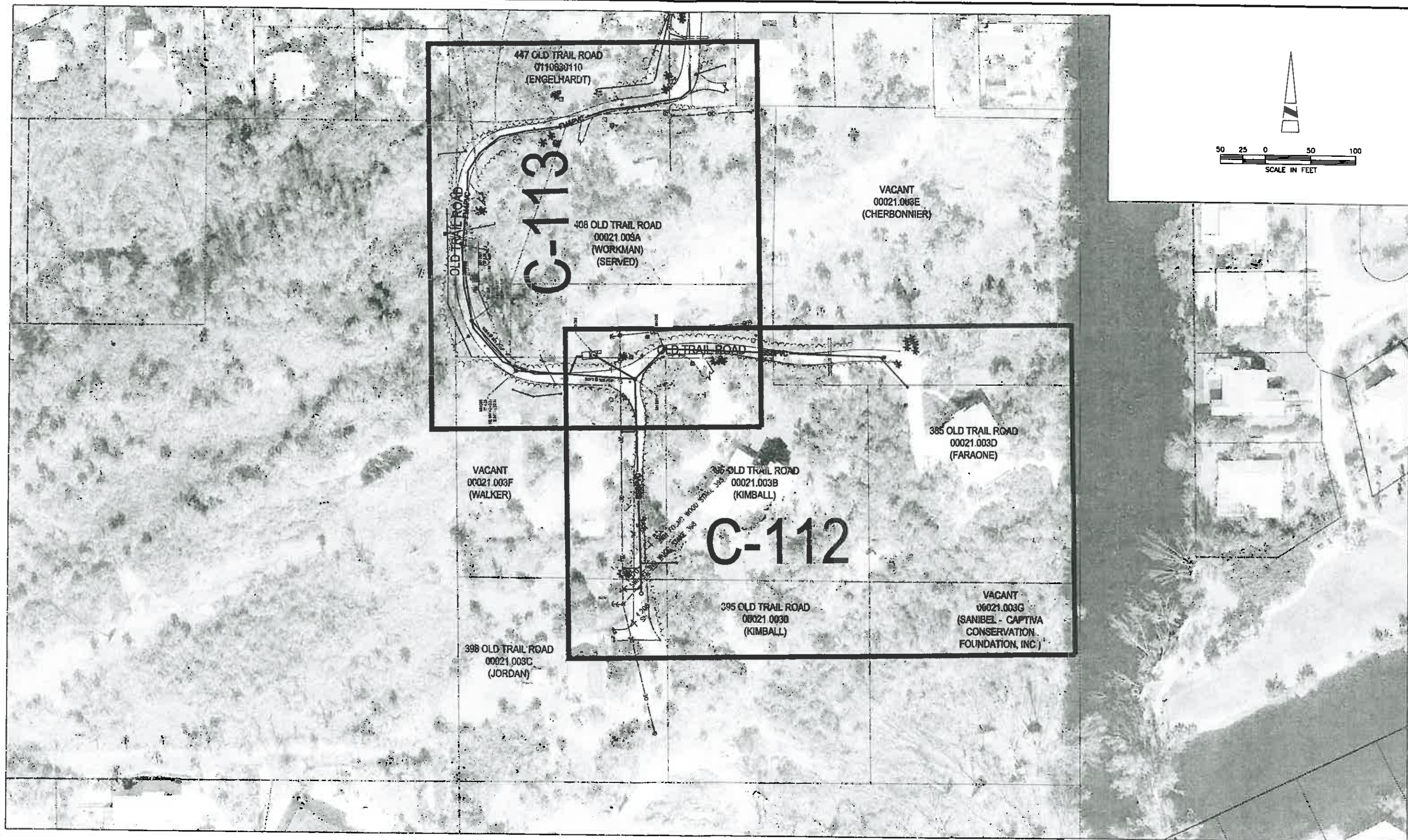
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7/25/08*

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Fax (239) 472-6041

SANIBEL SEWER SYSTEM EXPANSION PROJECT PHASE 4		DRAWING	C-109
AREA C LAYOUT 2 TAMARIND ROAD		SHEET	14
		OF 54 SHEETS	



NOT TO BE USED FOR CONSTRUCTION

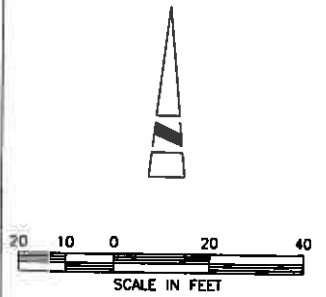
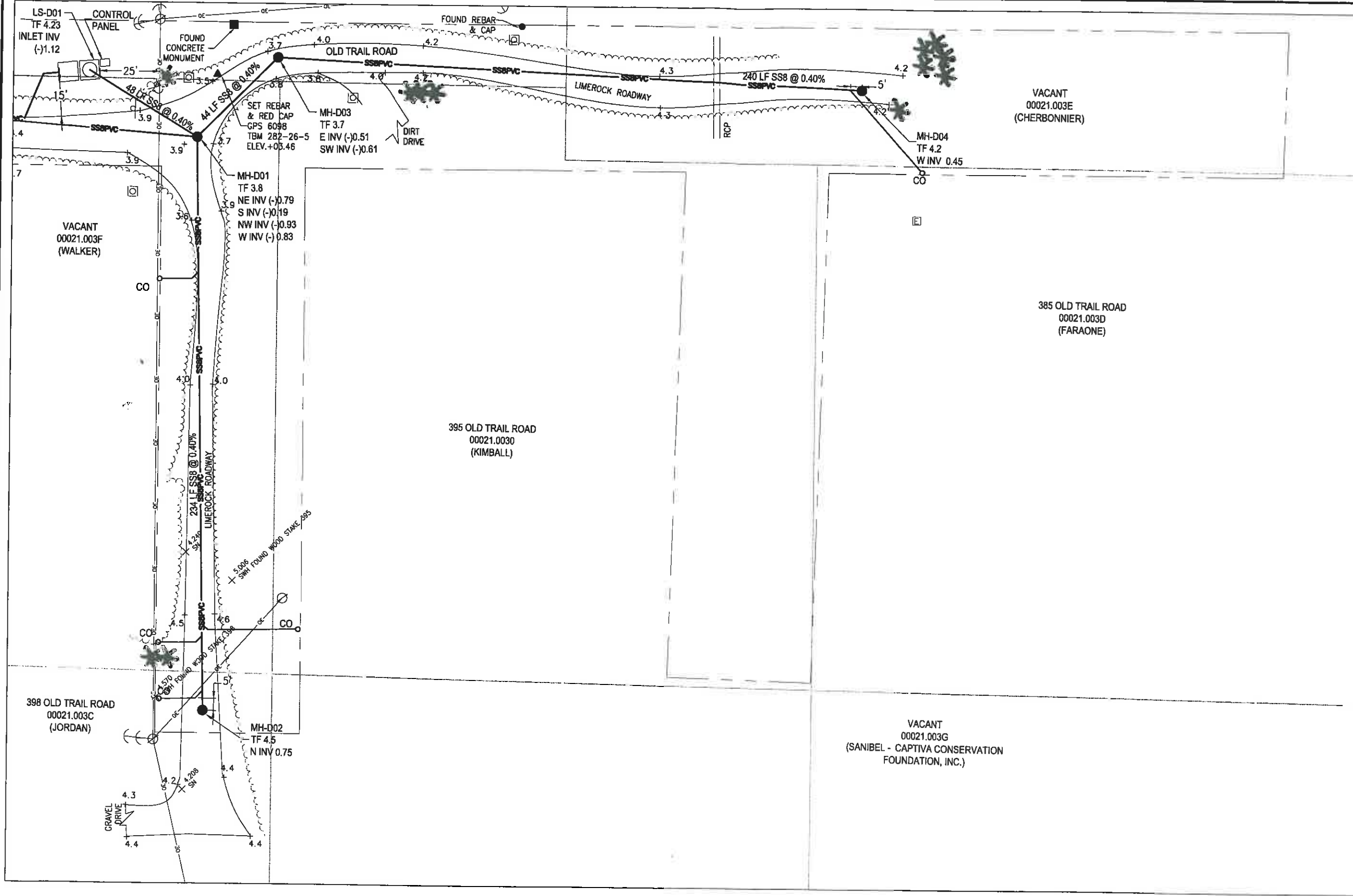
DRAWING
C-111

SHEET 16 OF 54 SHEETS

Completed
7/25/08



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Fax (239) 472-6041



D:\Projects\Sanibel\2011\01\Sanibel Sewer System Expansion\Phase 4\Area D Layout 1\Winterbottom.dwg
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 PLOT SCALE: 1/8"=1'-0"
 PLOT SHEET: 17 OF 54
 PLOT SHEET NAME: C-112.dwg
 PLOT SHEET NUMBER: 17
 PLOT SHEET TOTAL: 54

REV	DATE	DESCRIPTION
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DESIGNED BY	VFS	PROJECT ENGINEER	ALFRED J. MITTL, PE
DRAWN BY	ARM	REG. NUMBER	59913
CHECKED BY	AJM	EXP. DATE	02/28/09
DATE	6/12/08	PROJECT NUMBER	20117.01
		CADD STANDARD	BOYLE

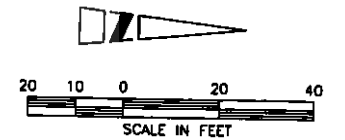
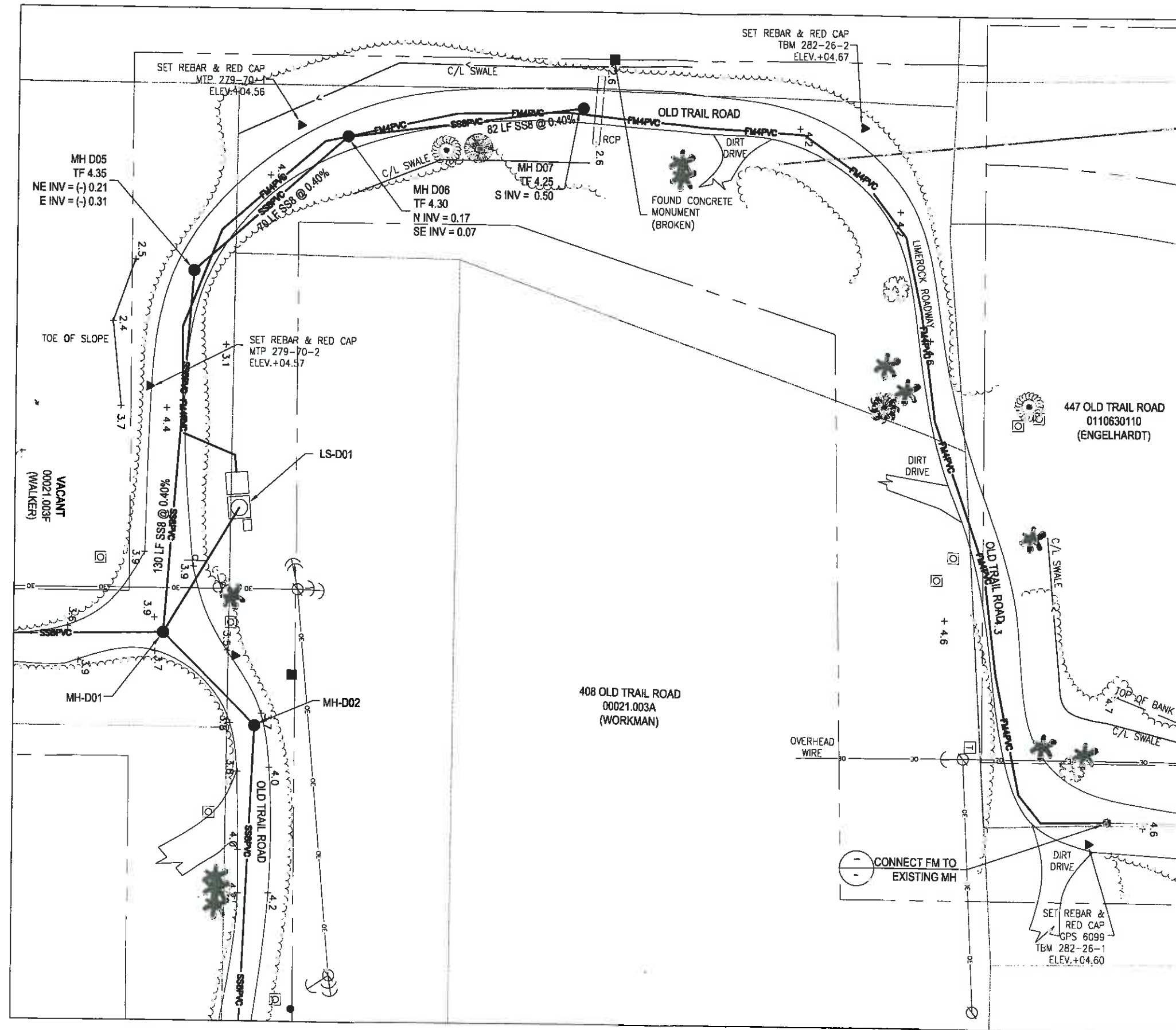
000-88 mitch
 7/25/08

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ISSUED FOR BIDDING NOT TO BE USED FOR CONSTRUCTION		DRAWING	C-112
SANIBEL SEWER SYSTEM EXPANSION PROJECT PHASE 4		SHEET	17
AREA D LAYOUT 1 WINTERBOTTOM		OF 54 SHEETS	



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 PLOT PAPER: A
 PLOT SCALE: 1"=40'
 PLOT SHEET: 18
 PLOT TOTAL SHEETS: 54

REV	DATE	DESCRIPTION	APP'D

DESIGNED BY	VFS	PROJECT ENGINEER	ALFRED J. MITTL, PE
DRAWN BY	ARM	REG. NUMBER	59913
CHECKED BY	AJM	EXP. DATE	02/28/09
DATE	6/12/08	PROJECT NUMBER	20117.01
		CADD STANDARDS	BOYLE

208-887-1000
 7/23/08

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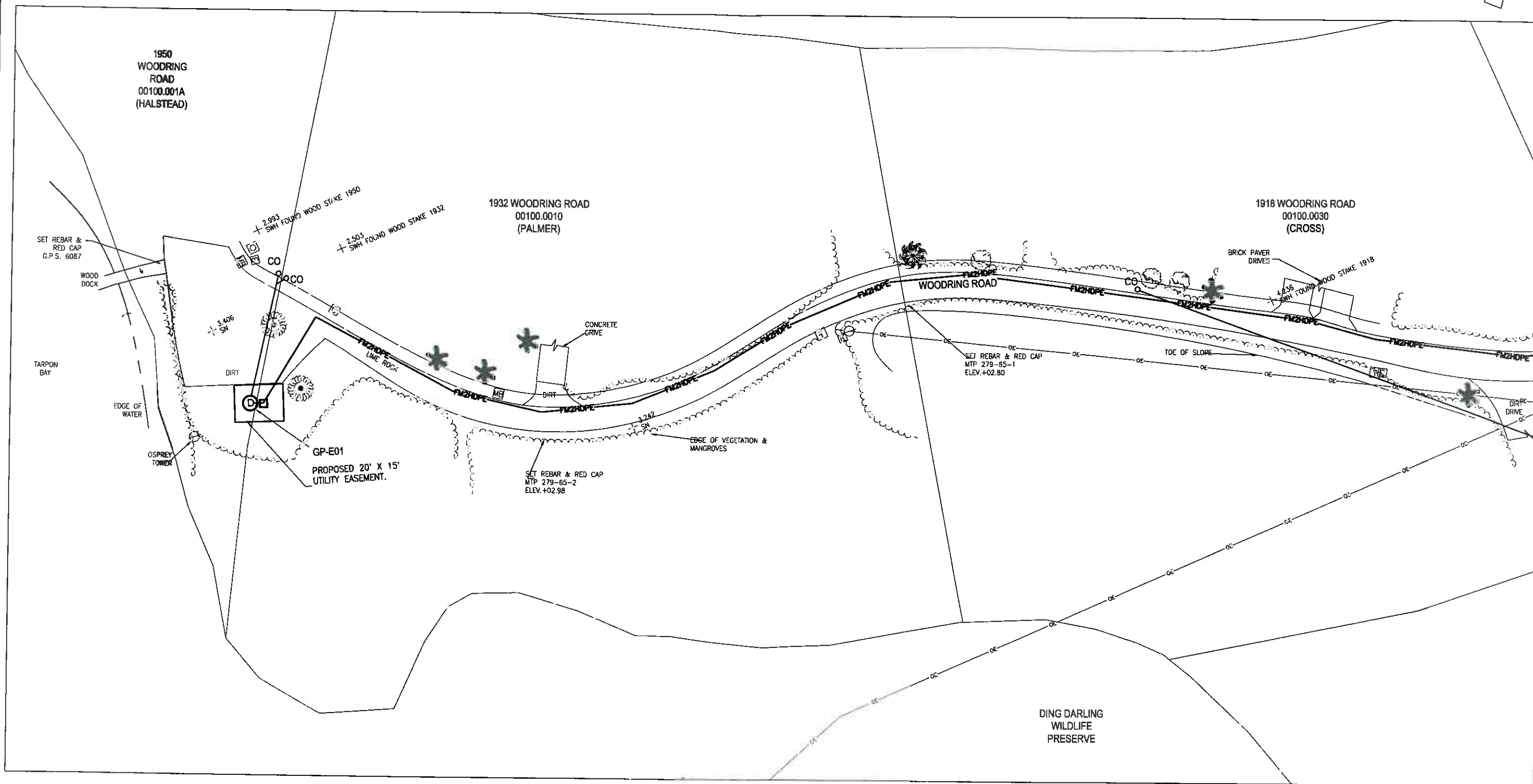
City of Sanibel
 800 Dunlop Road
 Sanibel, Florida 33957
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 Fax (239) 472-6041

SANIBEL SEWER SYSTEM EXPANSION PROJECT
 PHASE 4

AREA D LAYOUT 2
 WINTERBOTTOM

ISSUED FOR BIDDING
 NOT TO BE USED FOR CONSTRUCTION

DRAWING
 C-113
 SHEET
 18
 OF 54 SHEETS



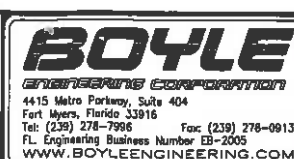
NOT TO BE USED FOR CONSTRUCTION

AREA E LAYOUT 1
WOODRING ROAD

SHEET
20
OF 54 SHEETS

VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	DESIGNED BY	VFS	PROJECT ENGINEER	ALFRED J. MITTL, PE	
	DRAWN BY	ARM	REG NUMBER	EXP DATE	
	CHECKED BY	AJM	59913	02/28/09	
	DATE	6/12/08	PROJECT NUMBER	20117.01	
			CADD STANDARDS	BOYLE	

Admitted
7/25/08



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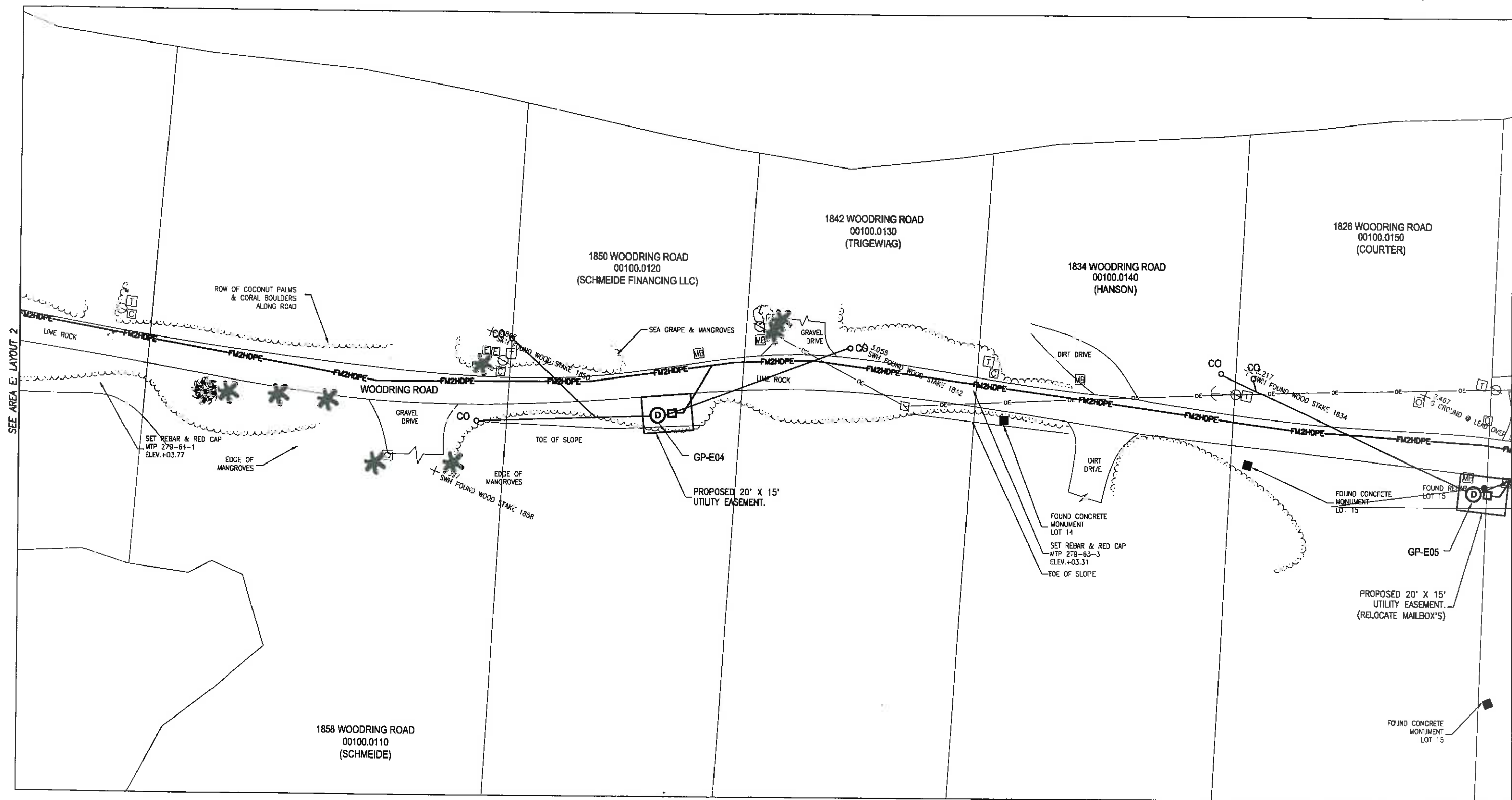
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corrected
7/25/08



SANIBEL SEWER SYSTEM EXPANSION PROJECT PHASE 4		DRAWING C-116
AREA E LAYOUT 2 WOODRING ROAD		SHEET 21 OF 54 SHEETS

ISSUED FOR BIDDING
NOT TO BE USED FOR CONSTRUCTION



NOT TO BE USED FOR CONSTRUCTION

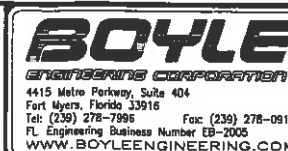
C-117

SHEET 22
54 SHEETS

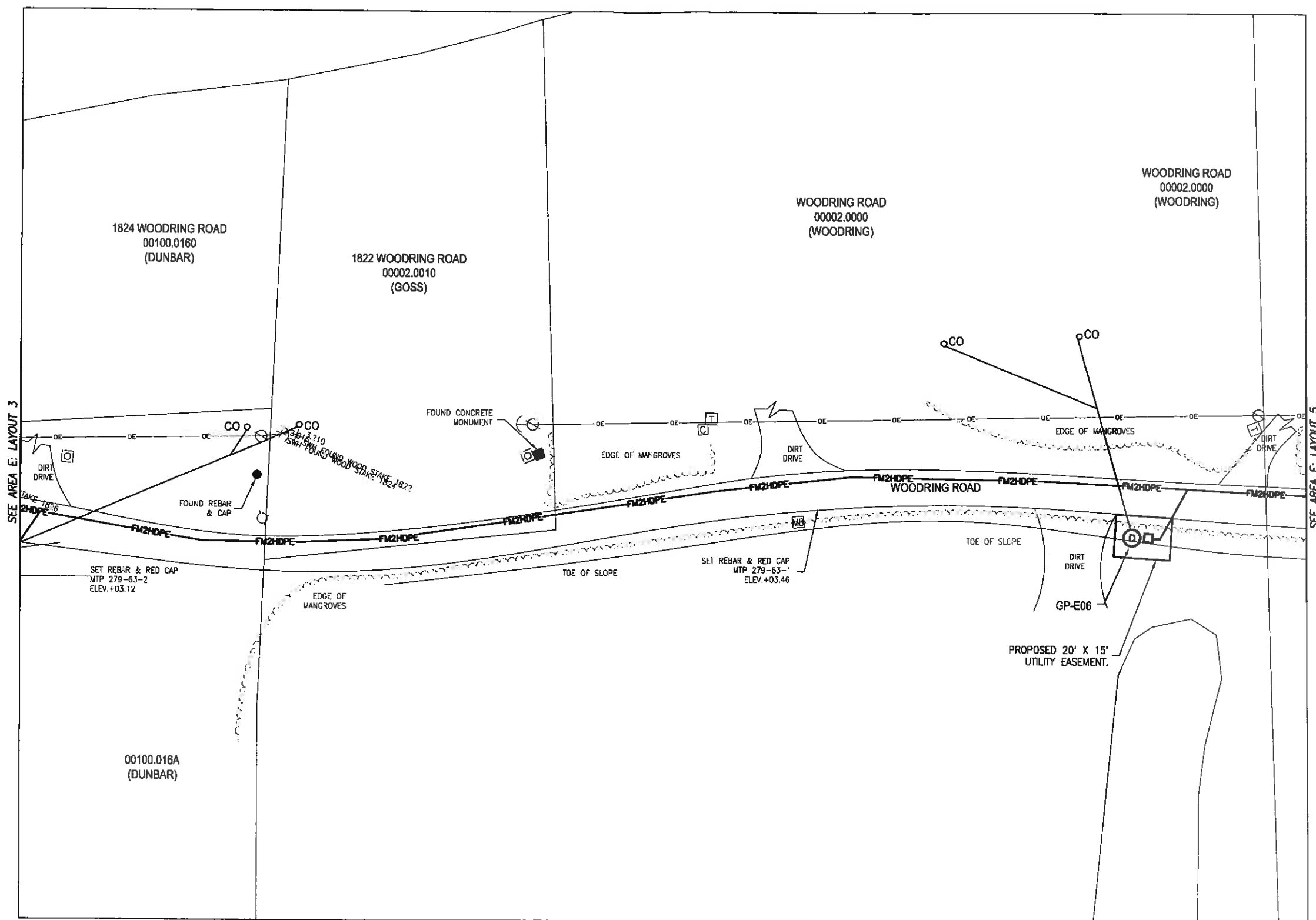
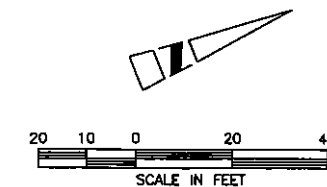
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DATE	JUN 12, 2026 1:09pm
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	APPR

VERIFY SCALES	
BAR IS ONE INCH ON ORIGINAL DRAWING	
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DESIGNED BY		PROJECT ENGINEER	
DRAWN BY VFS		ALFRED J. MITTL, PE	
		REG NUMBER	EXP DATE
ARM		59913	02/28/09
CHECKED BY		PROJECT NUMBER	
AJM		20117.01	
DATE	CPGD STANDARDS		
6/12/08	BOYLE		



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DESIGNED BY: VFS
DRAWN BY: ARM
CHECKED BY: AJM
DATE: 6/12/08

PROJECT ENGINEER: ALFRED J. MITTL, PE
REC NUMBER: 59913
EX. DATE: 02/28/09
PROJECT NUMBER: 20117.01
CADD STANDARDS: BOYLE

*Approved by Mittl
7/27/08*

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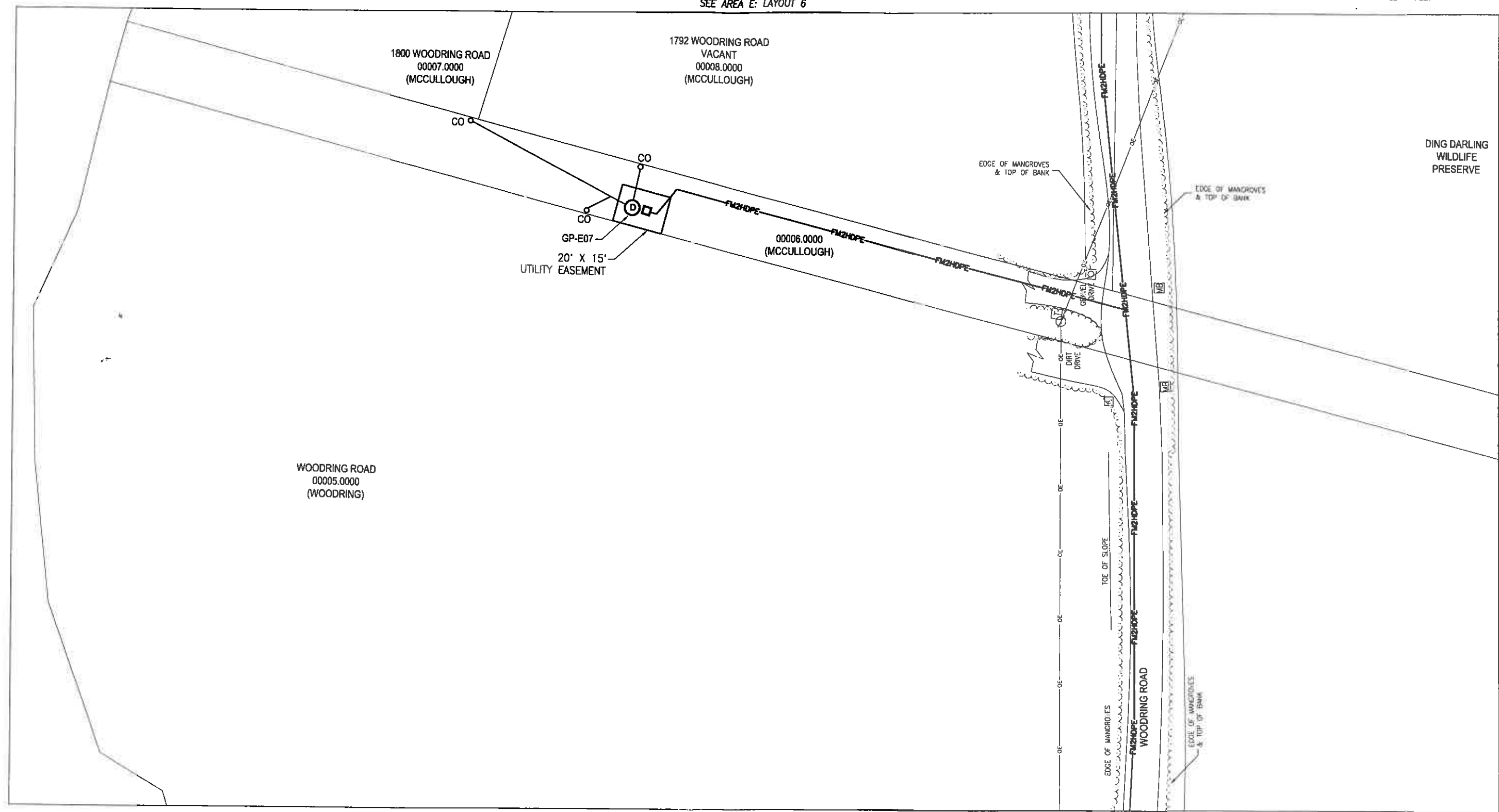
SANIBEL SEWER SYSTEM EXPANSION PROJECT
PHASE 4

AREA E LAYOUT 4
WOODRING ROAD

DRAWING: C-118
SHEET: 23
OF 54 SHEETS



SEE AREA E: LAYOUT 6



SEE AREA E: LAYOUT 4

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VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	DESIGNED BY	VFS	PROJECT ENGINEER	ALFRED J. MITTL, PE
	DRAWN BY	ARM	REG NUMBER	59913
	CHECKED BY	AJM	PROJECT NUMBER	20117.01
	DATE	6/12/08	CAZO STANDARDS	BOYLE

o.j. mittl
7/25/08

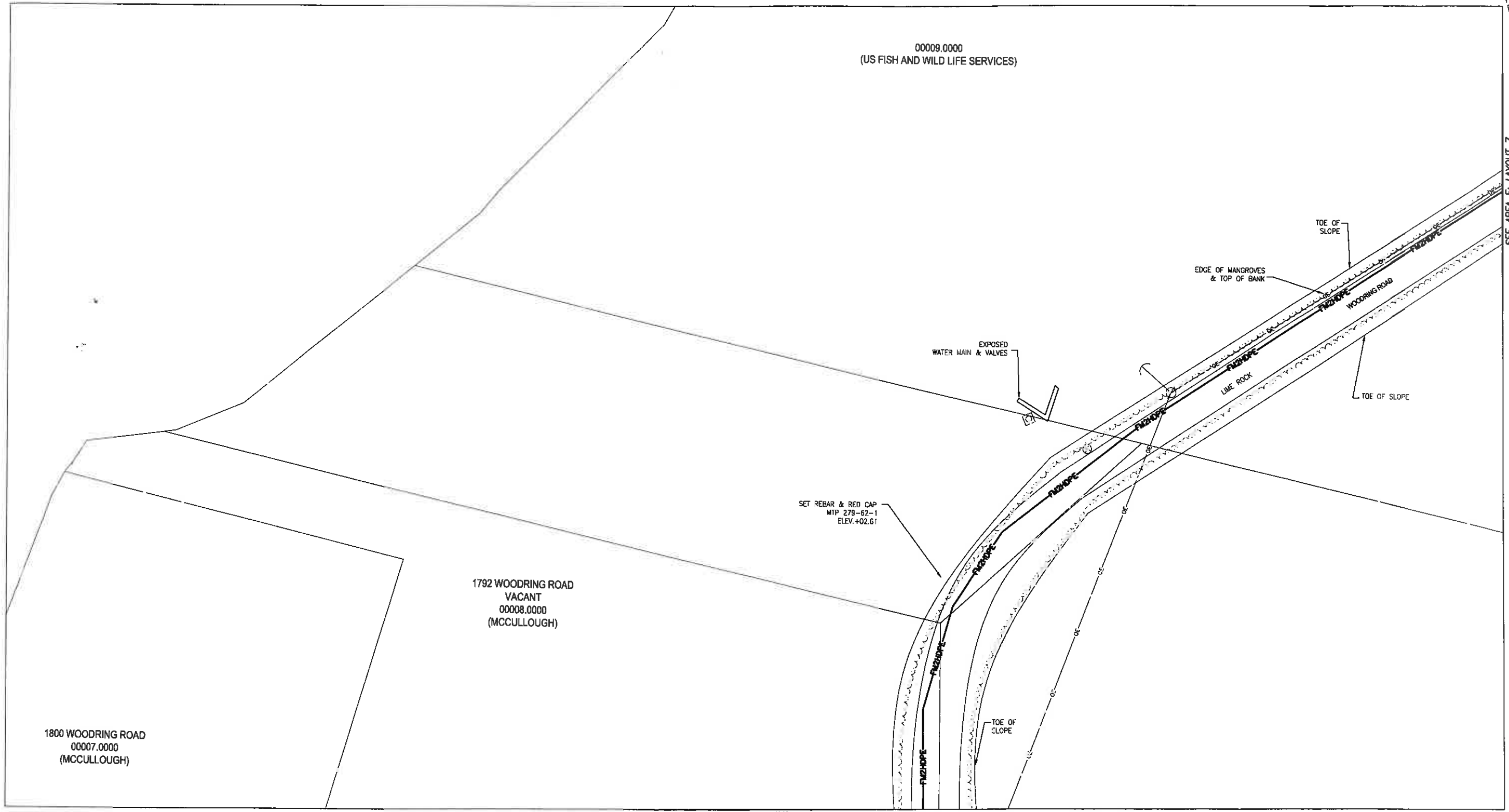
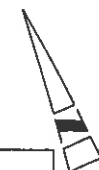
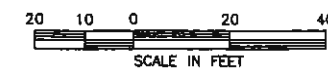
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SANIBEL SEWER SYSTEM EXPANSION PROJECT
PHASE 4
AREA E LAYOUT 5
WOODRING ROAD

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XREFS: M92-BD
USER: kiley-m
WCDRNG POINT
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S:\Sanibel\logp.dwg
L:\sanibel.dwg
467.2 ad



SEE AREA E: LAYOUT 5

SEE AREA E: LAYOUT 7

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REV	DATE	APPR	DESIGNED BY	PROJECT ENGINEER
			VFS	ALFRED J. MITTL, PE
			ARM	REG NUMBER 59913 EXP DATE 02/28/09
			AJM	PROJECT NUMBER 20117.01
			DATE 6/12/08	CADD STANDARDS BOYLE

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Copy to Mittl 7/25/08

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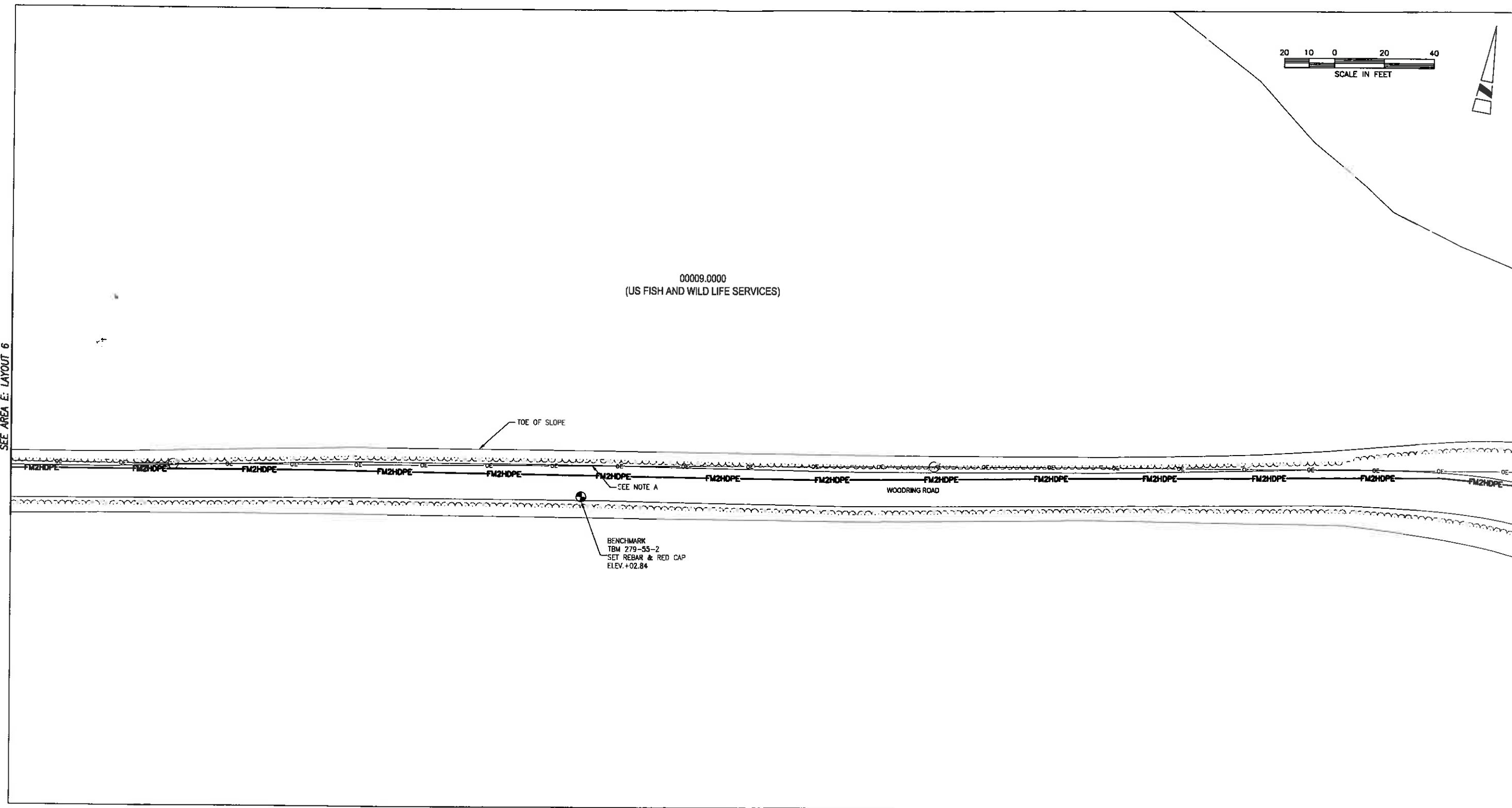


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SANIBEL SEWER SYSTEM EXPANSION PROJECT		DRAWING
PHASE 4		C-120
AREA E LAYOUT 6 WOODRING ROAD		SHEET 25 OF 54 SHEETS

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SEE AREA E: LAYOUT 6



SEE AREA E: LAYOUT 8

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VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	DESIGNED BY	VFS	PROJECT ENGINEER	ALFRED J. MITTL, PE
	DRAWN BY	ARM	REG NUMBER	59913
	CHECKED BY	AJM	EXP DATE	02/28/09
	DATE	6/12/08	PROJECT NUMBER	20117.01
APPR			CADD STANDARDS	BOYLE

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7/25/08

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Fax (239) 472-6041

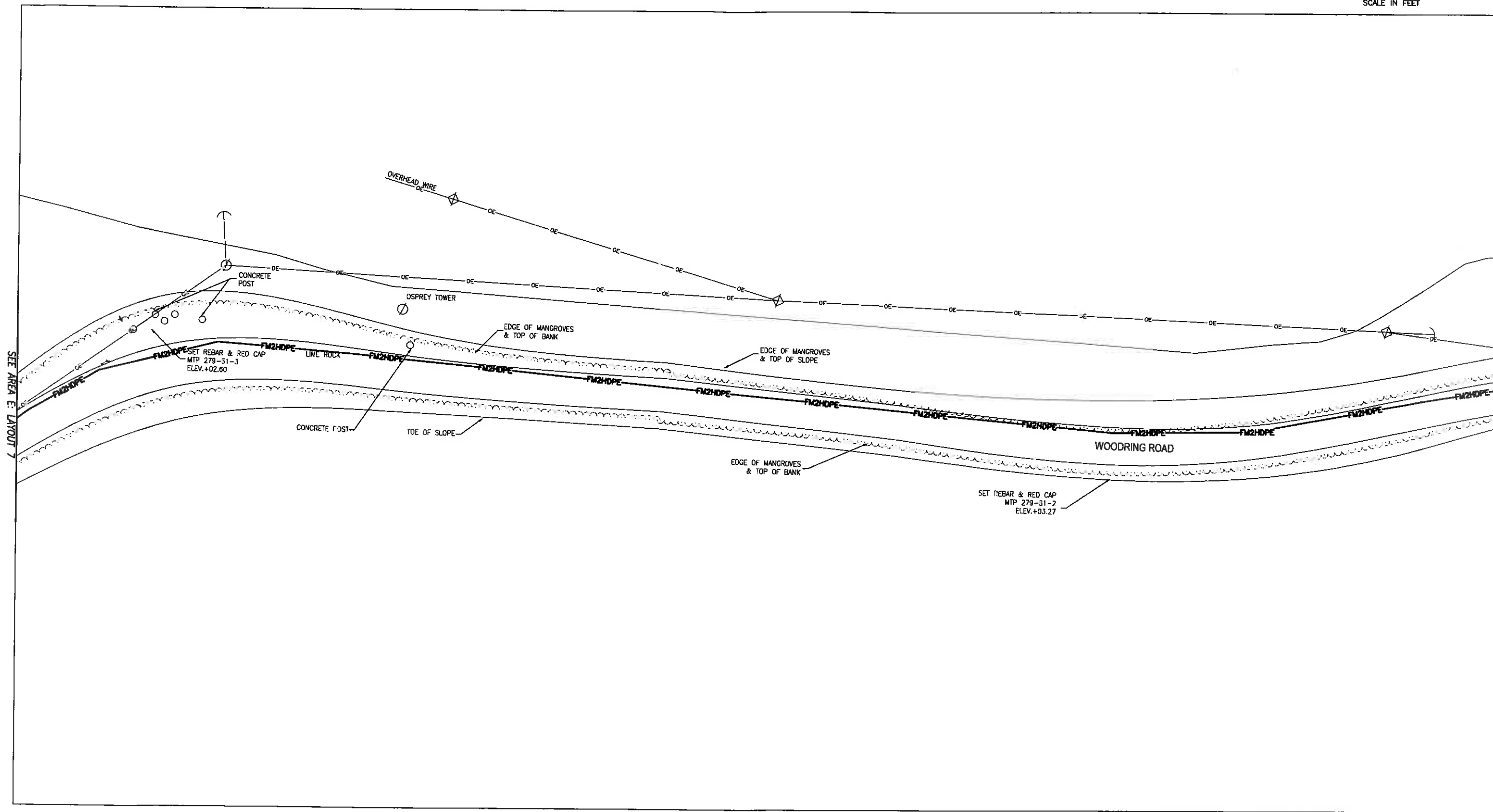
SANIBEL SEWER SYSTEM EXPANSION PROJECT
PHASE 4

AREA E LAYOUT 7
WOODRING ROAD

DRAWING
C-121
SHEET
26
OF 54 SHEETS



SEE AREA E LAYOUT 9



SEE AREA E LAYOUT 7

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ISSUED FOR BIDDING
NOT TO BE USED FOR CONSTRUCTION

REV	DATE	APPR

DESIGNED BY VFS	PROJECT ENGINEER ALFRED J. MITTL, PE
DRAWN BY ARM	REG NUMBER 59913
CHECKED BY AJM	EXP DATE 02/28/09
DATE 6/12/08	PROJECT NUMBER 20117.01
	CADD STANDARDS BOYLE

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7/25/08

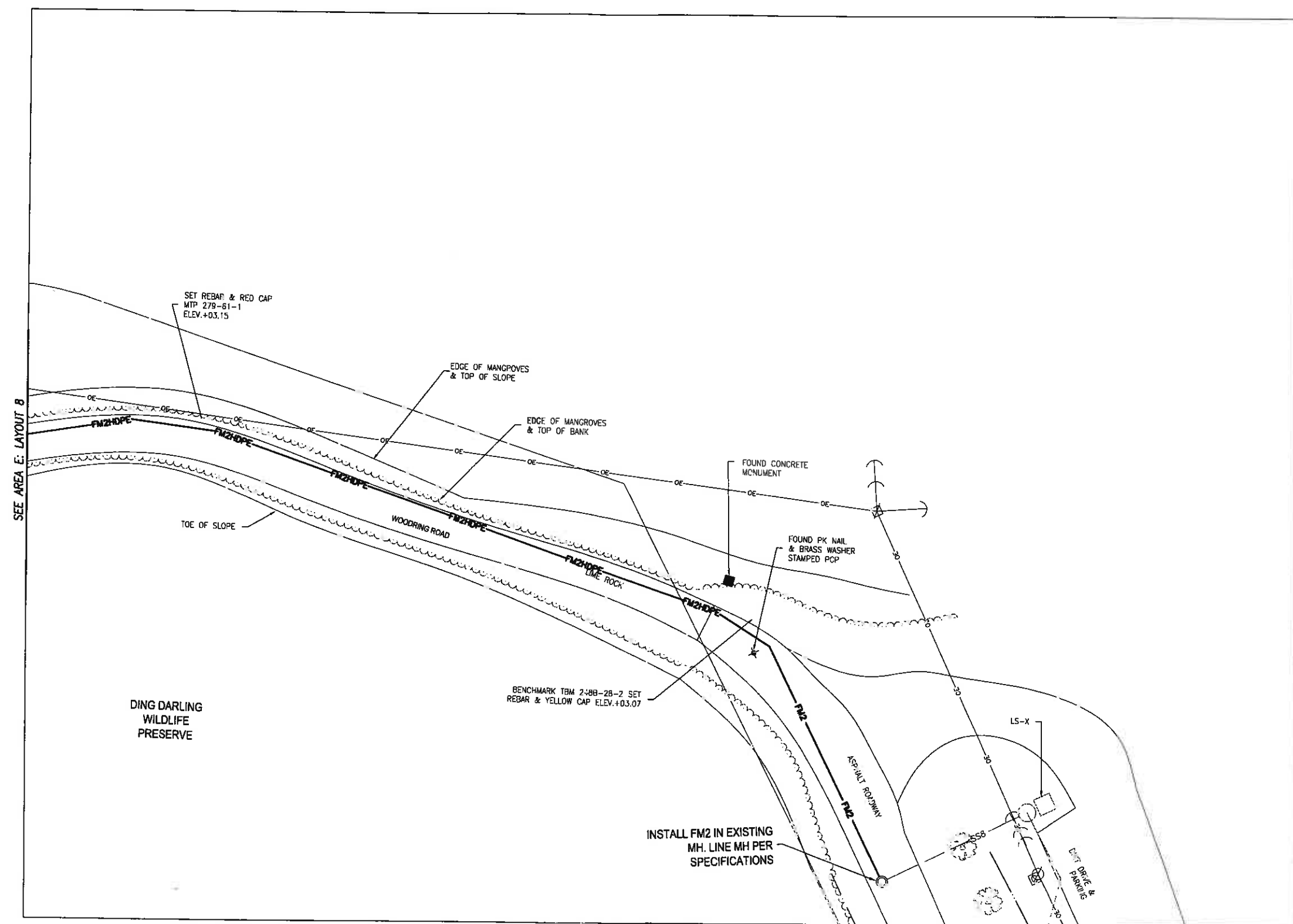
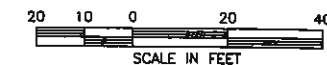
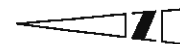
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SANIBEL SEWER SYSTEM EXPANSION PROJECT
PHASE 4
AREA E LAYOUT 8
WOODRING ROAD

DRAWING
C-122
SHEET
27
OF 54 SHEETS



ISSUED FOR BIDDING
NOT TO BE USED FOR CONSTRUCTION

VERIFICATION		DESIGNED BY	PROJECT ENGINEER
VFS		ALFRED J. MITTL, PE	
DRAWN BY		REC NUMBER	EXP DATE
ARM		59913	02/28/09
CHECKED BY		PROJECT NUMBER	
AJM		20117.01	
DATE		CADD STANDARDS	
6/12/08		BOYLE	
APPR			

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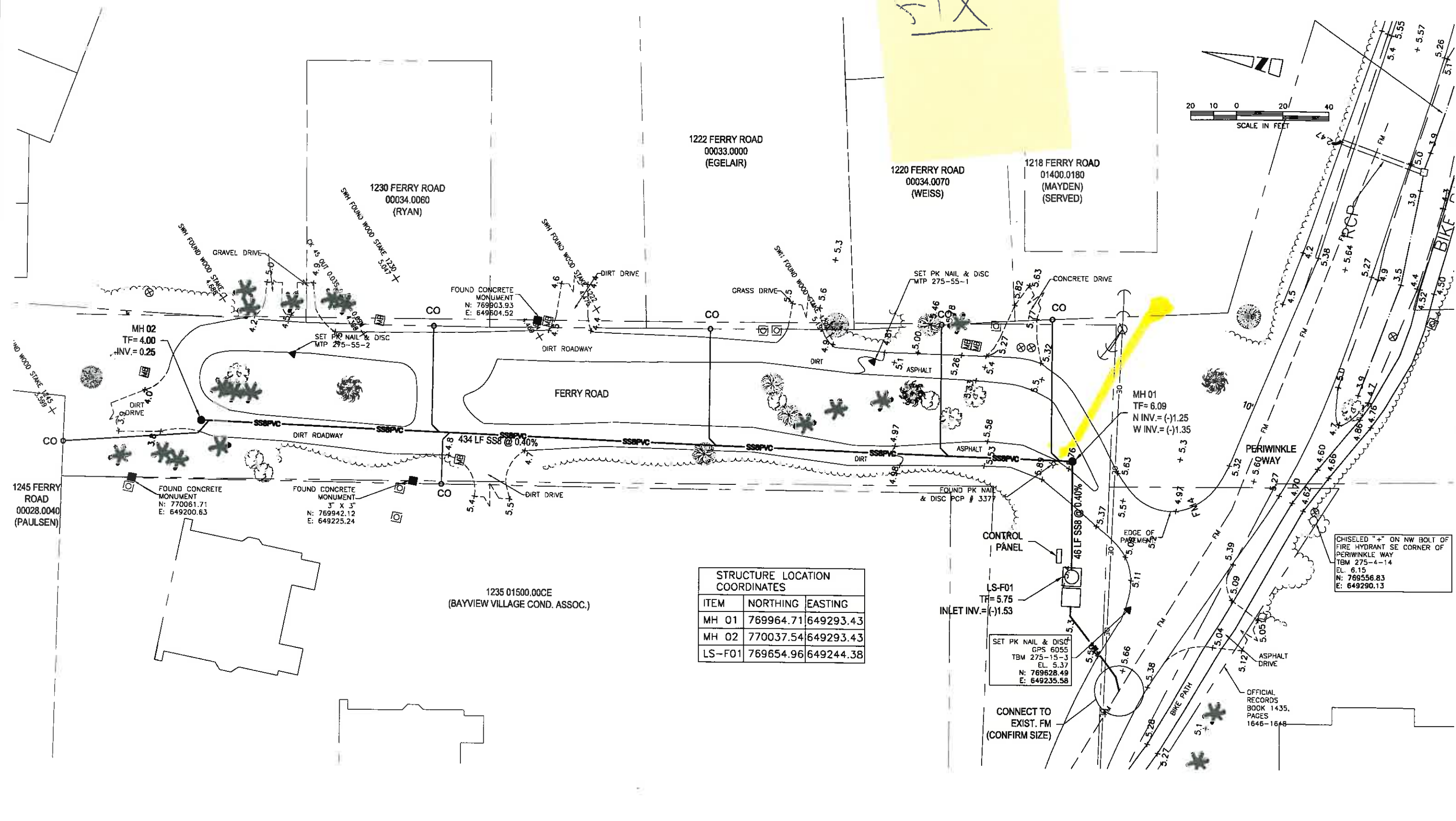
City of Sanibel
890 Dunlop Road
Sanibel, Florida 33957
Phone (239) 472-6397
Fax (239) 472-6041

Sanibel Sewer System Expansion Project
Phase 4

Area E Layout 9
Woodring Road

28
OF 54 SHEETS

DWG: K:\Projects\Sanibel\20117.01\DWG\Plan\A-C-123.DWG USER: kja-m WOODING ROAD
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Sanibel logo.svg Sanibel logo.pdf 4622.sld



STRUCTURE LOCATION COORDINATES		
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MH 02	770037.54	649293.43
LS-F01	769654.96	649244.38

ISSUED FOR BIDDING
NOT TO BE USED FOR CONSTRUCTION

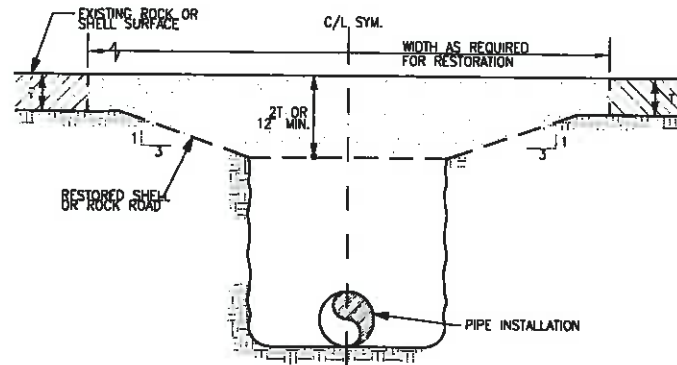
DATE: 6/12/08	DESIGNED BY: VFS	PROJECT ENGINEER: ALFRED J. MITTL, PE
DATE: 6/12/08	DRAWN BY: ARM	REG. NUMBER: 59913
DATE: 6/12/08	CHECKED BY: AJM	EXP. DATE: 02/28/09
DATE: 6/12/08	DATE: 6/12/08	PROJECT NUMBER: 20117.01
DATE: 6/12/08	DATE: 6/12/08	CDX00 STANDARDS: BOYLE

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Fort Myers, Florida 33916
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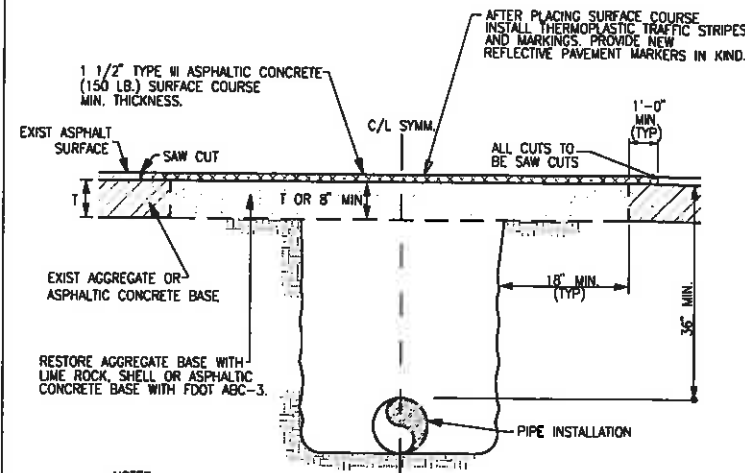
City of Sanibel
800 Dunlop Road
Sanibel, Florida 33957
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Fax (239) 472-6041

SANIBEL SEWER SYSTEM EXPANSION PROJECT PHASE 4		DRAWING C-125
AREA F LAYOUT 1 FERRY ROAD		SHEET 30 OF 54 SHEETS



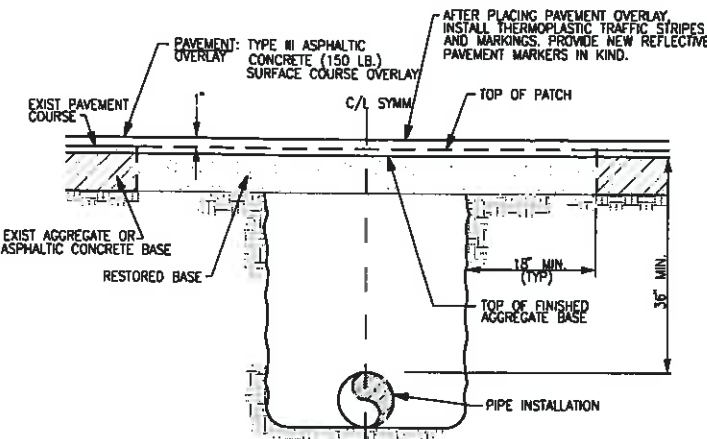
- NOTES:
1. BACKFILL TRENCH PER BEDDING AND TRENCHING DETAIL.
 2. CONSTRUCT RESTORED SHELL OR ROCK ROAD.
 3. PAYMENT FOR ITEMS 1-2 SHALL BE INCLUDED IN THE UNIT PRICE FOR SANITARY SEWER, SANITARY LATERALS OR FORCE MAIN CONSTRUCTION. SEPARATE PAYMENT FOR ROADWAY RESTORATION WILL NOT BE MADE.
 4. TOP ENTIRE ROAD WITH 1-1/2 INCHES OF GRAVEL OR SHELL SHELL TOPPING TO MATCH.

1 RESTORATION OF SHELL OR ROCK ROAD
SCALE : NONE



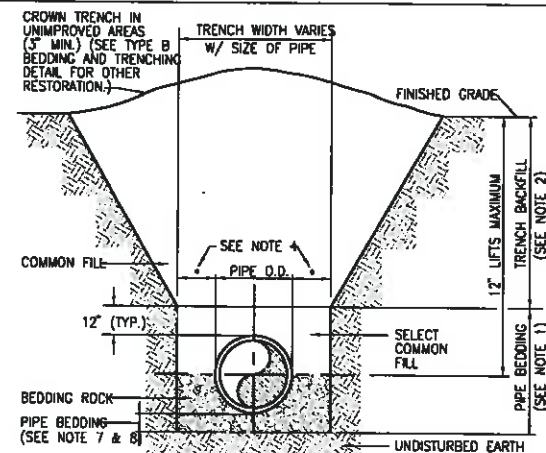
- NOTES:
1. BACKFILL TRENCH TO BOTTOM OF EXISTING ROADWAY BASE PER BEDDING AND TRENCHING DETAIL.
 2. CONSTRUCT AGGREGATE BASE TO EXISTING ASPHALT SURFACE. CONSTRUCT ASPHALTIC CONCRETE BASE TO TOP OF EXISTING BASE.
 3. ON AGGREGATE BASE, APPLY PRIME COAT AND SAND SEAL TO MAINTAIN DRIVEABLE SURFACE FOR TEMPORARY RESTORATION.
 4. PRIOR TO INSTALLING PERMANENT PAVEMENT OVER AGGREGATE BASE, REMOVE TEMPORARY PATCH AND EXCESS ROAD BASE TO THE THICKNESS OF THE ASPHALT SURFACE COURSE OR 1 1/2 INCHES MINIMUM, WHICHEVER IS GREATER. INSTALL NEW PRIME COAT AND TYPE III SURFACE COURSE.
 5. ON ASPHALTIC CONCRETE BASE, SAW-CUT EXISTING SURFACE COURSE AS SHOWN AND USE TACK COAT ON ABC-3 PRIOR TO PLACING SURFACE COURSE.
 6. THE WIDTH OF THE RESTORATION SHALL BE A MINIMUM OF 6 FEET AND A MAXIMUM OF 12 FEET.
 7. PAYMENT FOR ITEMS 1-6 SHALL BE INCLUDED IN THE UNIT PRICE FOR SANITARY SEWER, SANITARY LATERAL OR FORCE MAIN CONSTRUCTION. SEPARATE PAYMENT FOR PAVEMENT RESTORATION WILL NOT BE MADE.

2 PAVEMENT RESTORATION
SCALE : NONE



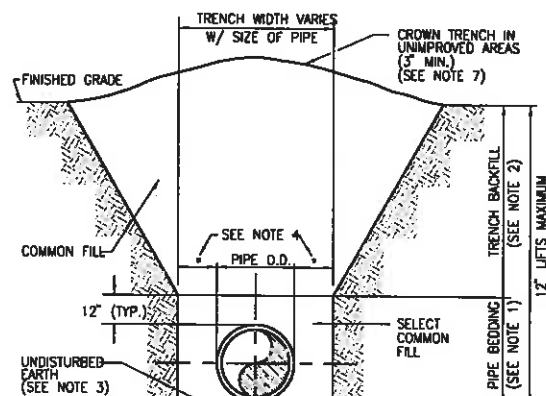
- NOTES:
1. ALL PAVED ROADWAYS ARE TO BE OVERLAID 12 MONTHS AFTER COMPLETION OF PAVEMENT RESTORATION.
 2. PRIOR TO INSTALLING PAVEMENT OVERLAY, LEVELING COURSE WILL BE INSTALLED TO COMPENSATE FOR ANY DITCH SETTLEMENT AND/OR TO RE-ESTABLISH ROAD GRADES.
 3. INSTALL 1\"/>
 4. PAVEMENT FOR LEVELING COURSE SHALL BE INCLUDED IN THE UNIT PRICE FOR THE INSTALLED PIPE. 1\"/>

3 PAVEMENT OVERLAY
SCALE : NONE



- NOTES:
1. PIPE BEDDING: SELECT COMMON FILL OR BEDDING ROCK COMPACTED TO 98% OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
 2. TRENCH BACKFILL: COMMON FILL COMPACTED TO 95% OF THE MAXIMUM DENSITY AS PER AASHTO T-180 IN UNPAVED AREAS, 98% OF MAXIMUM DENSITY IN PAVED AREAS.
 3. USE TYPE A BEDDING TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE CITY.
 4. (+): 15\"/>
 5. WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION.
 6. ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW.
 7. REFER TO SPECIFICATIONS FOR SHEETING AND BRACING IN EXCAVATIONS.
 8. GRAVITY SEWERS SHALL UTILIZE BEDDING ROCK, BEDDING DEPTH SHALL BE 4\"/>
 9. DEPTH FOR REMOVAL OF UNSUITABLE MATERIAL SHALL GOVERN DEPTH OF BEDDING ROCK BELOW THE PIPE. APPLICABLE GOVERNING AGENCY SHALL DETERMINE IN THE FIELD REQUIRED REMOVAL OF UNSUITABLE MATERIAL TO REACH SUITABLE FOUNDATION.

SANITARY SEWER AND SANITARY LATERALS
TYPE A



- NOTES:
1. PIPE BEDDING: SELECT COMMON FILL COMPACTED TO 98% OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
 2. TRENCH BACKFILL: COMMON FILL COMPACTED TO 95% OF THE MAXIMUM DENSITY AS PER AASHTO T-180 IN UNPAVED AREAS, 98% OF MAXIMUM DENSITY IN PAVED AREAS.
 3. PIPE BEDDING UTILIZING SELECT COMMON FILL OR BEDDING ROCK IN ACCORDANCE WITH TYPE A BEDDING AND TRENCHING DETAIL MAY BE REQUIRED AS DIRECTED BY THE CITY.
 4. (+): 15\"/>
 5. WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION.
 6. ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW.
 7. FINAL RESTORATION IN IMPROVED AREAS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS OF GOVERNING AGENCIES. SURFACE RESTORATION WITHIN CITY OR COUNTY RIGHT-OF-WAY SHALL COMPLY WITH THE APPLICABLE REGULATIONS.

FORCE MAIN
TYPE B

4 BEDDING AND TRENCHING DETAILS
SCALE : NONE

VERIFY SCALES

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DESIGNED BY

VFS

DRAWN BY

ARM

CHECKED BY

AJM

DATE

6/12/08

PROJECT ENGINEER

ALFRED J. MITTL, PE

REG NUMBER

59913

EXP DATE

02/28/09

PROJECT NUMBER

20117.01

CADD STANDARDS

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Tel: (239) 278-7995 Fax: (239) 278-0913
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Sanibel, Florida 33957
Phone (239) 472-6397
Fax (239) 472-F041

SANIBEL SEWER SYSTEM EXPANSION PROJECT
PHASE 4

DETAILS

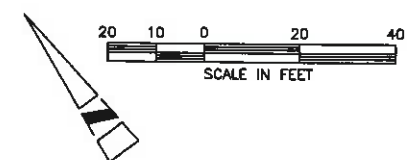
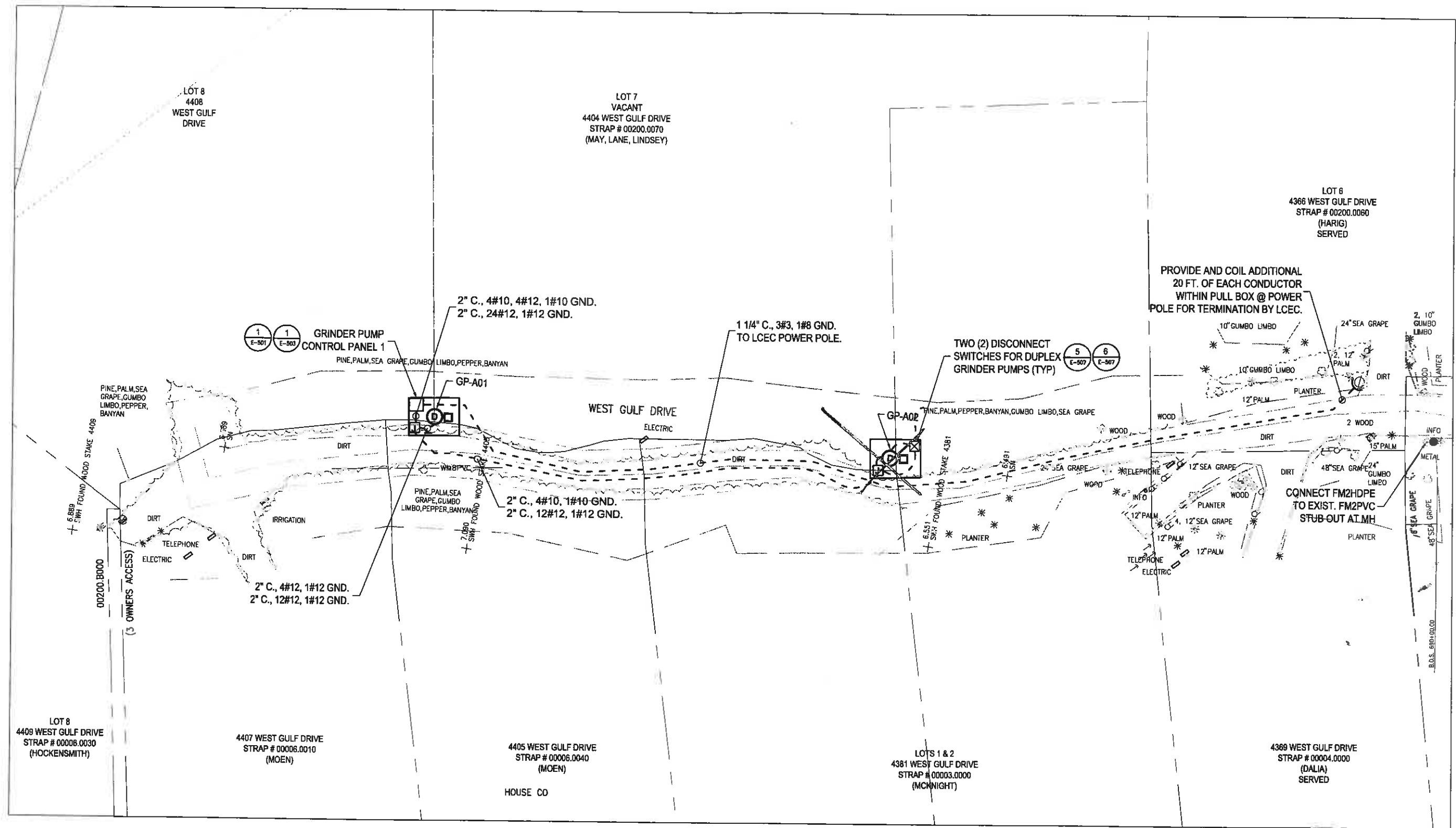
ISSUED FOR BIDDING
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C-502

SHEET

32

OF 54 SHEETS



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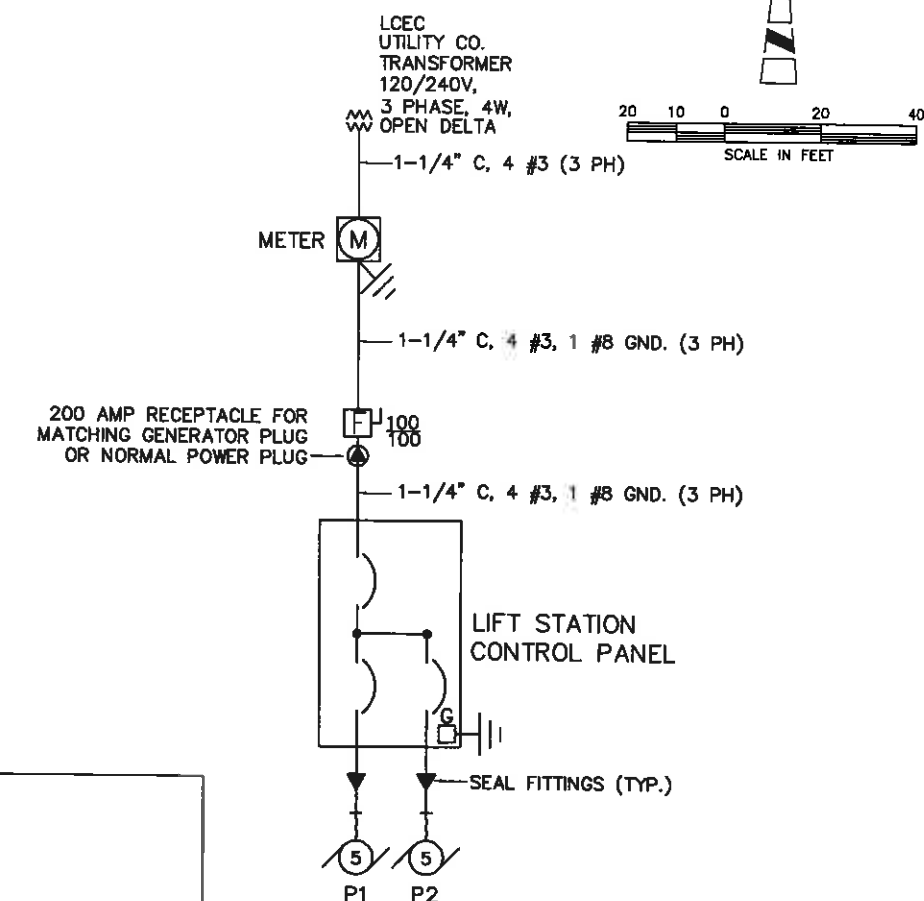
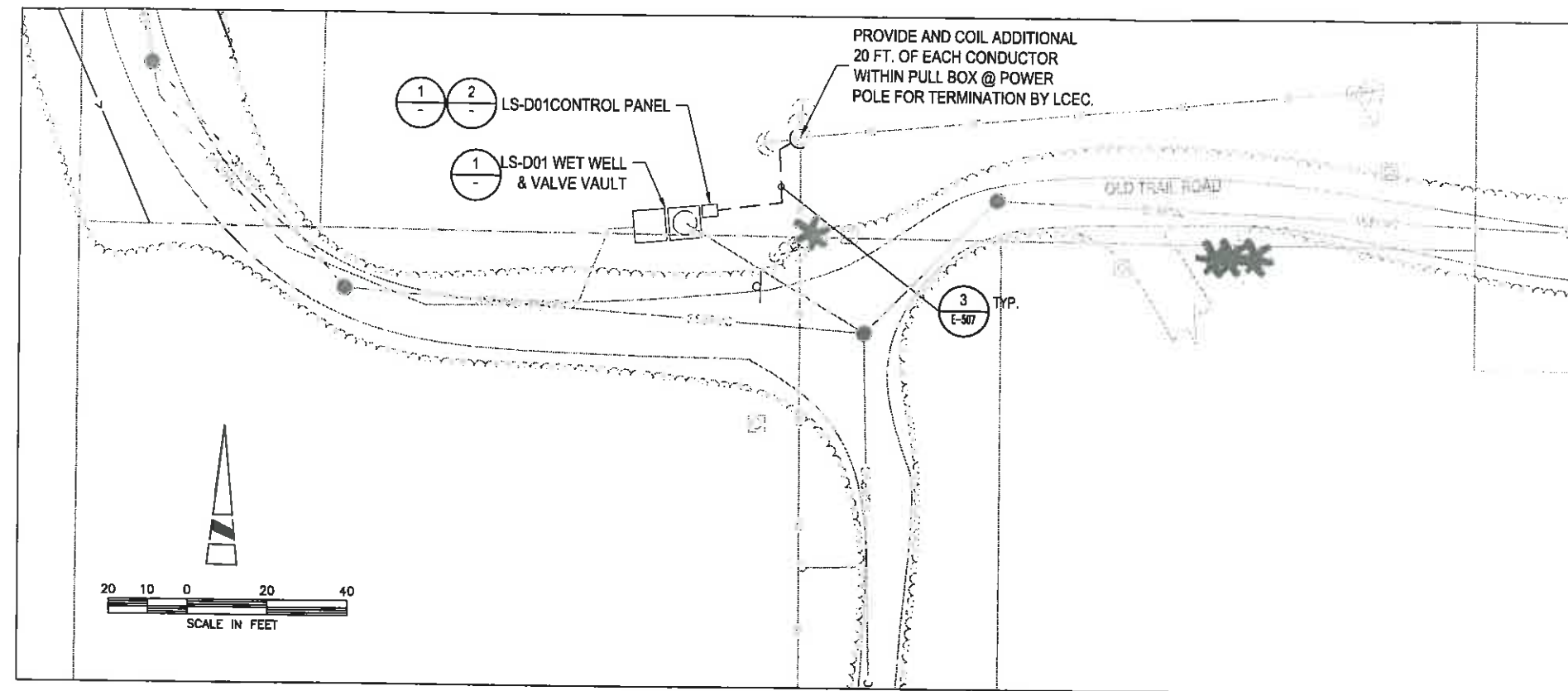
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BAR IS ONE INCH ON ORIGINAL DRAWING		MAP	MARK PELLISH, PE
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY		DRAWN BY	REG NUMBER
		ARM	46906
		CHECKED BY	EXP DATE
		MAP	02/28/09
		DATE	PROJECT NUMBER
		6/12/08	20117.01
			CADD STANDARDS
			BOYLE

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Fort Myers, Florida 33918
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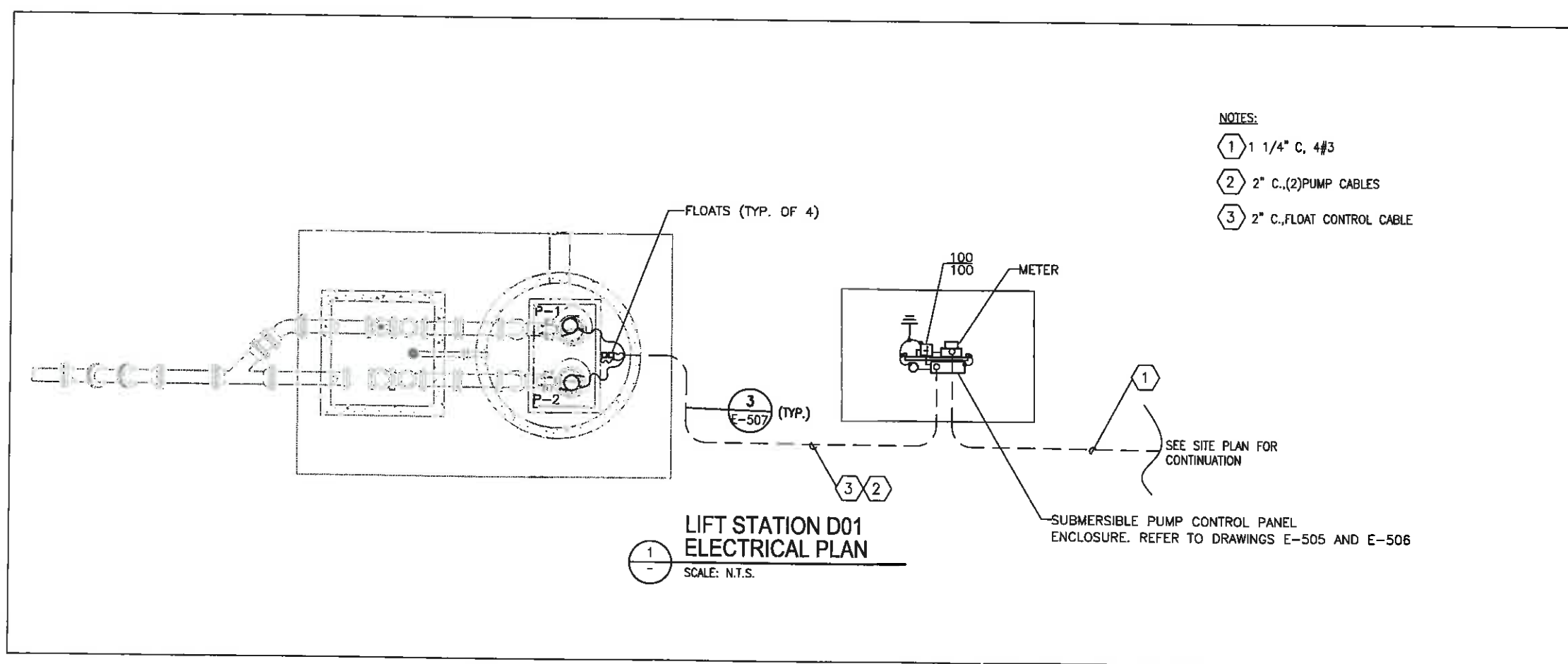
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Sanibel, Florida 33957
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Fax (239) 472-6041

SANIBEL SEWER SYSTEM EXPANSION PROJECT PHASE 4		DRAWING
AREA A ELECTRICAL PLAN WEST GULF DRIVE		E-101
		SHEET
		37
		OF 54 SHEETS



2 SINGLE LINE DIAGRAM
SCALE: N.T.S.

- NOTES:
- 1 1 1/4" C, 4#3
 - 2 2" C., (2) PUMP CABLES
 - 3 2" C., FLOAT CONTROL CABLE



1
SCALE: N.T.S.

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USER: ingordan
REFS: M97-BD
WINTERBOTTOM
IMAGES: bcommsal.gif
Sanibel logo.azb
sanibel logo.gif
4672 add

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DESIGNED BY
DRAWN BY
CHECKED BY
DATE
MAP
6/12/08

PROJECT ENGINEER
MARK PELLISH
REG NUMBER
46906
EXP DATE
02/28/09
PROJECT NUMBER
20117.01
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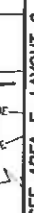
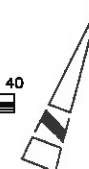


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SANIBEL SEWER SYSTEM EXPANSION PROJECT
PHASE 4

AREA D ELECTRICAL PLAN
WINTERBOTTOM

DRAWING
E-105
SHEET
41
OF 54 SHEETS



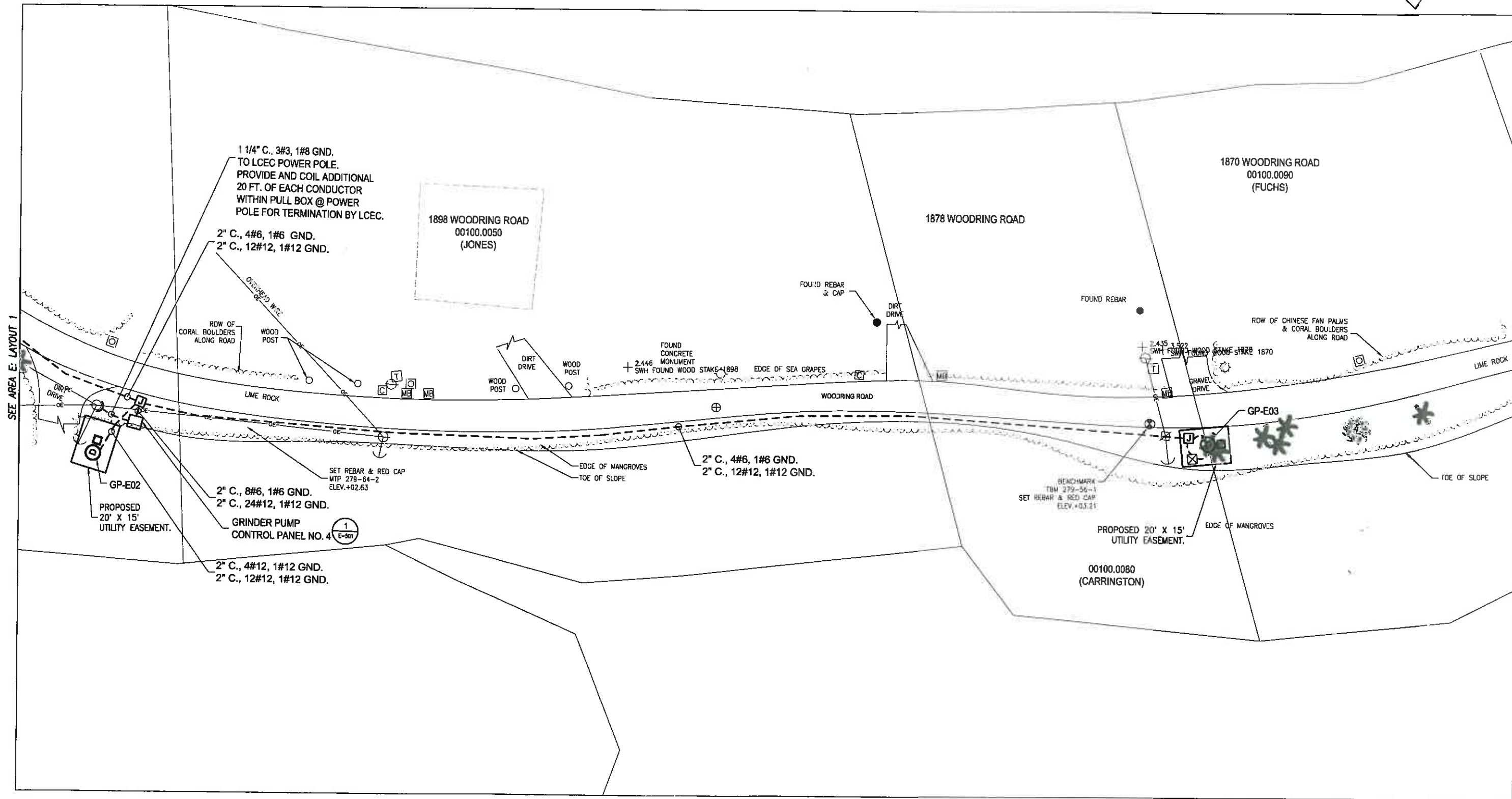
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MARK PELLISH, PE	
REG NUMBER	EXP DATE
46906	02/28/09
PROJECT NUMBER	
20117.01	
CADD STANDARDS	
BOX 15	

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DRAWING	E-106
SHEET	42
OF 54 SHEETS	

20 10 0 20 40
SCALE IN FEET



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USER: mrgordon
PLOTTER: HP DesignJet 500
PAGES: 54
SHEET: 43

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SCALES ACCORDINGLY

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MAP
DRAWN BY
ARM
CHECKED BY
MAP
DATE
6/12/08

PROJECT ENGINEER
MARK PELLISH, PE
REG NUMBER
46906
EXP DATE
02/28/09
PROJECT NUMBER
20117.01
CADD STANDARDS
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Rel. 7-16-08

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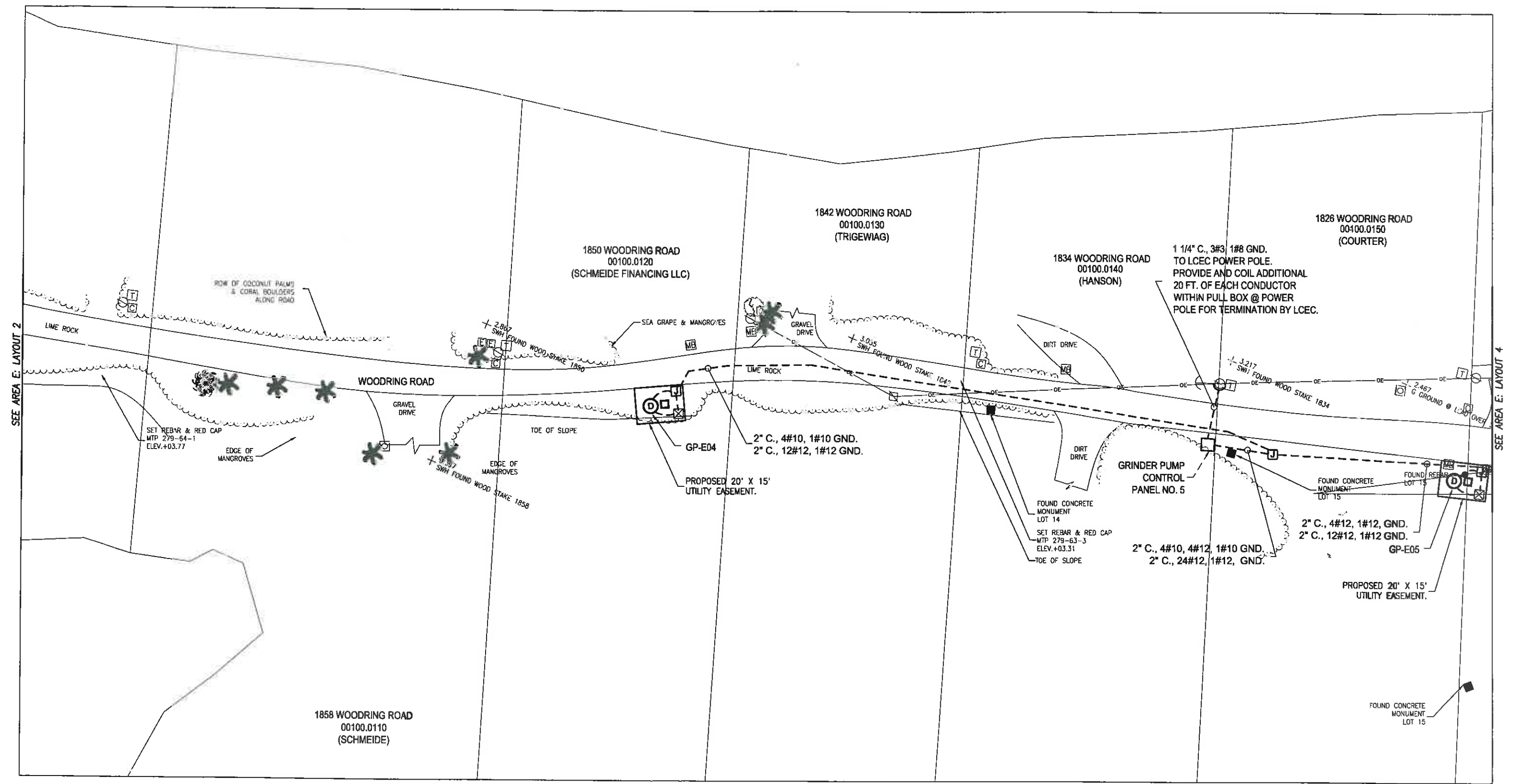
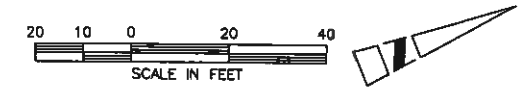
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SANIBEL SEWER SYSTEM EXPANSION PROJECT
PHASE 4

AREA E ELECTRICAL PLAN 2
WOODRING ROAD

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DRAWING
E-107
SHEET
43
OF 54 SHEETS



USER: ingradon
DATE: 6/12/08
PROJECT: 20117.01, CMC, Phase 4, E-108, JWG
SHEET: 44 OF 54
DRAWN BY: MAP
CHECKED BY: MAP
DATE: 6/12/08
APPR: [Signature]
BOYLE ENGINEERING CORPORATION
4415 Metro Parkway, Suite 404
Fort Myers, Florida 33915
Tel: (239) 278-7906 Fax: (239) 278-0913
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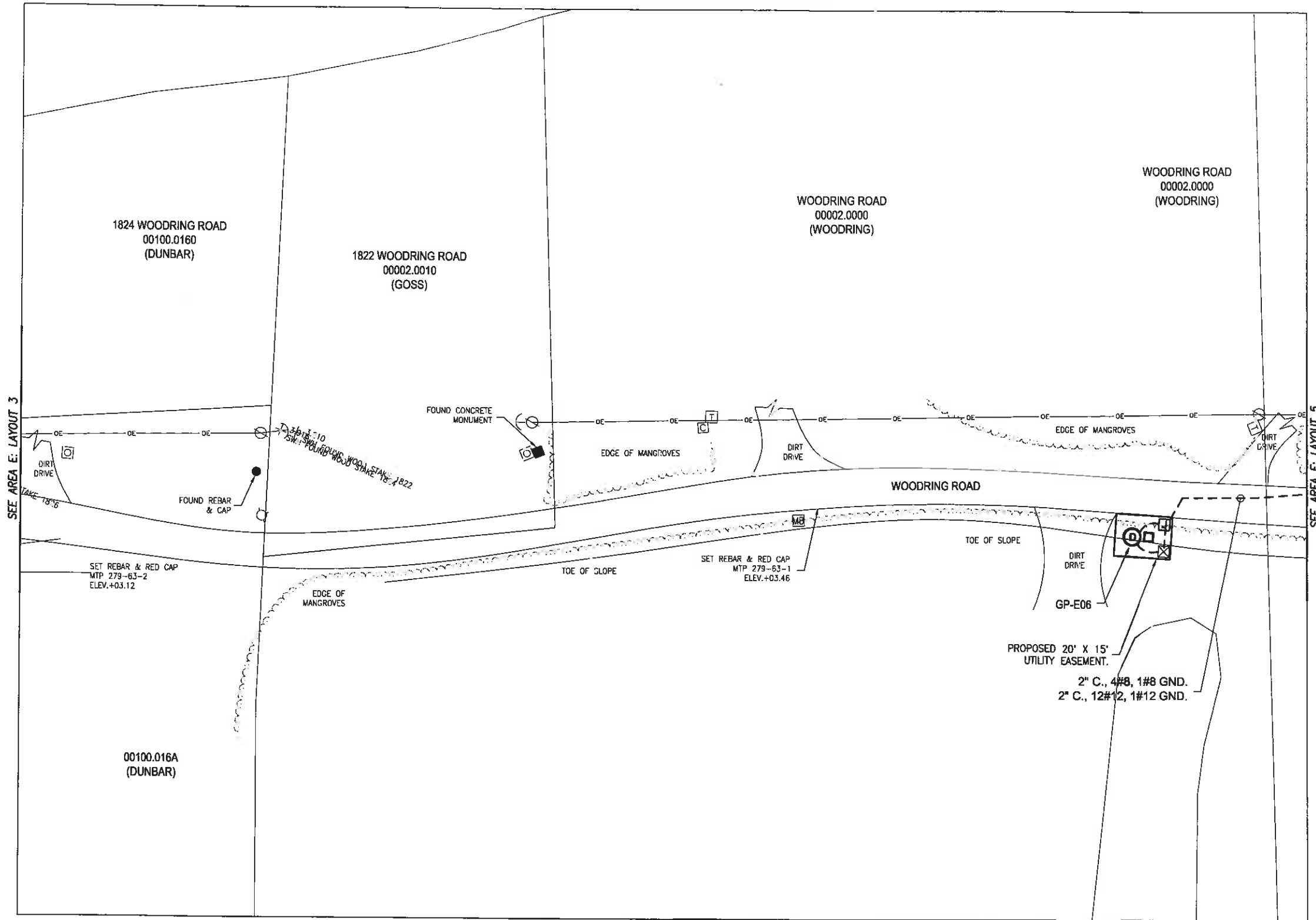
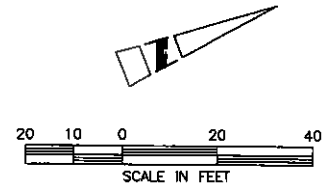
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800 Dunlap Road
Sanibel, Florida 33957
Phons (239) 472-6397
Fax (239) 472-6041

SANIBEL SEWER SYSTEM EXPANSION PROJECT
PHASE 4
AREA E ELECTRICAL PLAN 3
WOODRING ROAD

DRAWING: E-108
SHEET: 44
OF 54 SHEETS



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DATE: Jan 13, 2008 11:22am
USER: mgordon
PROJECT: WOODRING ROAD
SHEET: 45 OF 54
SHEET: 45 OF 54 SHEETS

VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	DESIGNED BY MAP	PROJECT ENGINEER MARK PELLISH, PE
	DRAWN BY ARM	REG. NUMBER 46906
	CHECKED BY MAP	EXP. DATE 02/28/09
	DATE 6/12/08	PROJECT NUMBER 20117.01
APPR	BOYLE	

7-16-08

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SANIBEL SEWER SYSTEM EXPANSION PROJECT PHASE 4	
AREA E ELECTRICAL PLAN 4 WOODRING ROAD	
DRAWING E-109	SHEET 45 OF 54 SHEETS



SEE AREA E: LAYOUT 6

1800 WOODRING ROAD
00007.0000
(MCCULLOUGH)

1792 WOODRING ROAD
VACANT
00008.0000
(MCCULLOUGH)

DING DARLING
WILDLIFE
PRESERVE

GP-E07
20' X 15'
UTILITY EASEMENT
2" C., 4#10, 1#10 GND.
2" C., 12#12, 1#12 GND.

00006.0000
(MCCULLOUGH)

2" C., 4#8, 4#10, 1#8 GND.
2" C., 24#12, 1#12 GND.

GRINDER PUMP
CONTROL PANEL NO. 6

1 1/4" C., 3#3, 1#8 GND.
TO LCEC POWER POLE.
PROVIDE AND COIL ADDITIONAL
20 FT. OF EACH CONDUCTOR
WITHIN PULL BOX @ POWER
POLE FOR TERMINATION BY LCEC.

2" C., 4#8, 1#8 GND.
2" C., 12#12, 1#12 GND.

WOODRING ROAD
00005.0000
(WOODRING)

SEE DRAWING E-109

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DRAWN BY
CHECKED BY
DATE
6/12/08

PROJECT ENGINEER
MARK PELLUSH, PE
REG NUMBER
46906
EXP DATE
02/28/09
PROJECT NUMBER
20117.01
CADD STANDARDS
BOYLE

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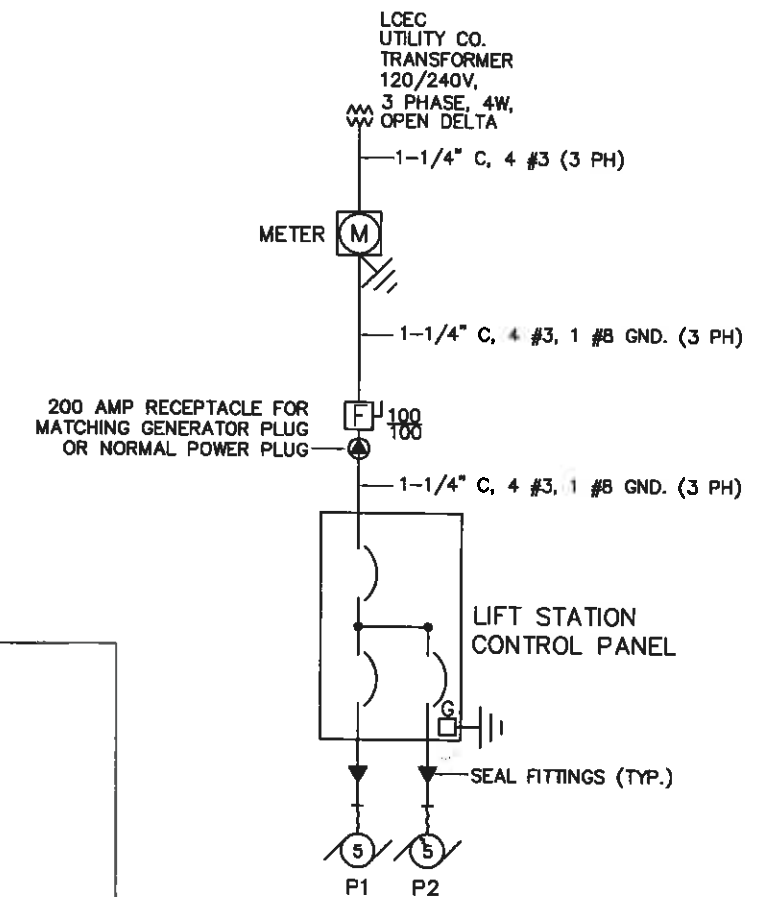
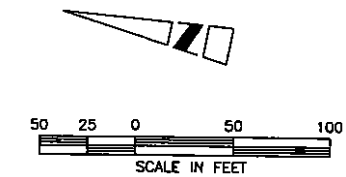
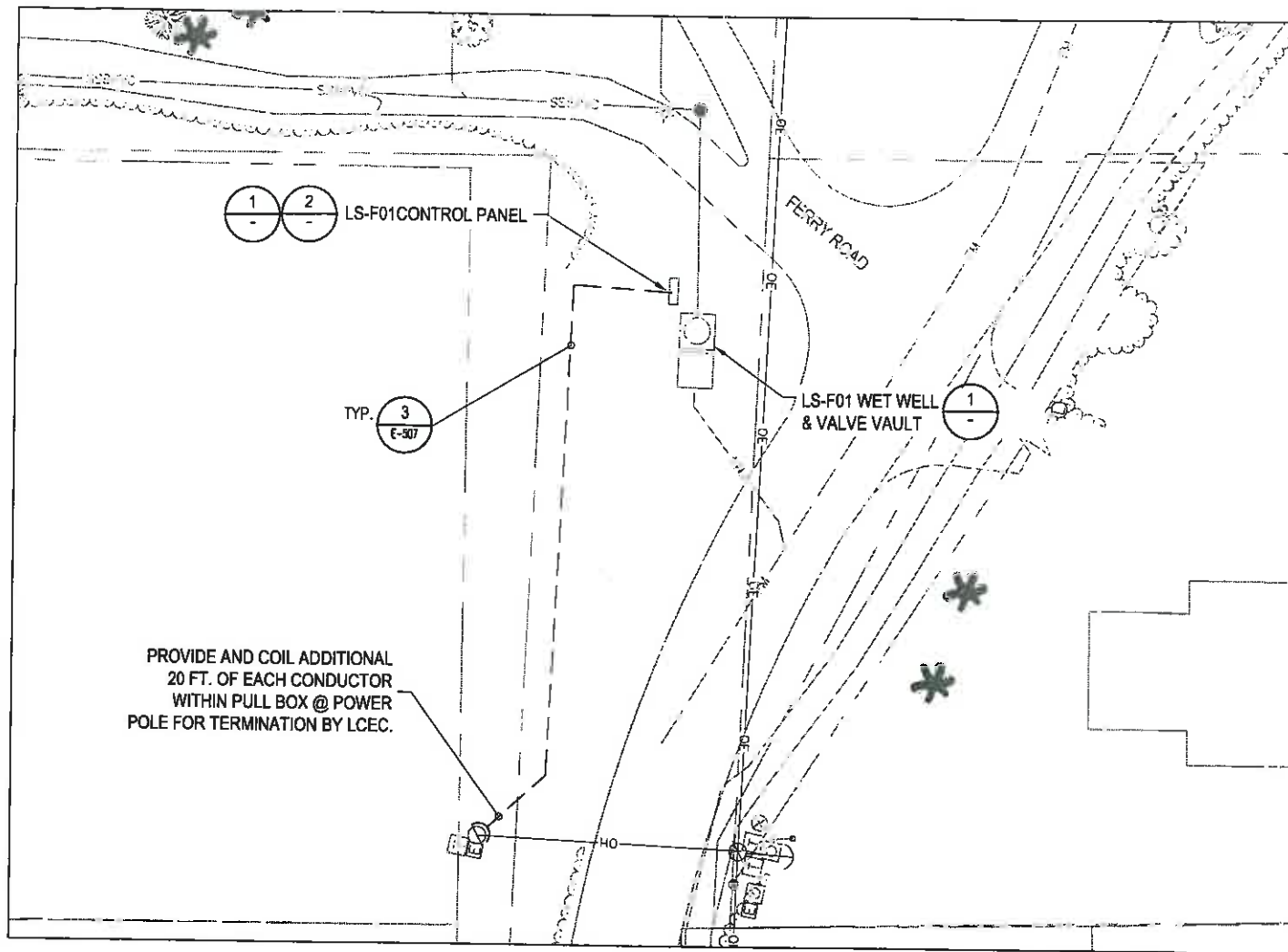


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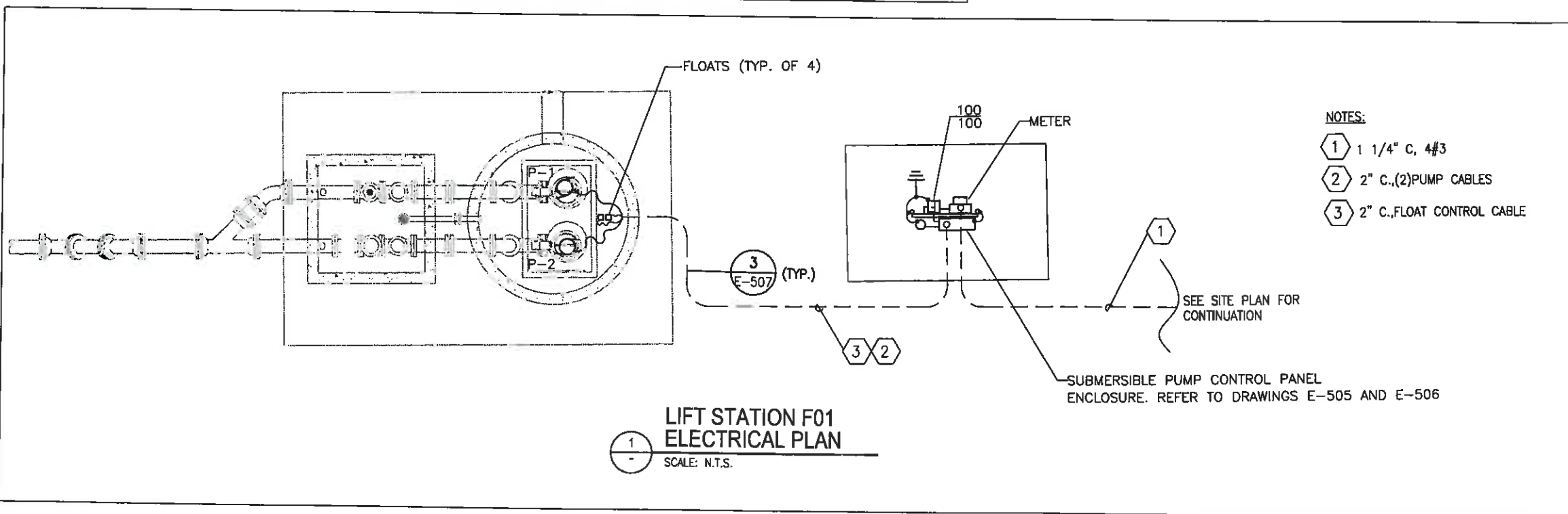
SANIBEL SEWER SYSTEM EXPANSION PROJECT
PHASE 4
AREA E ELECTRICAL PLAN 5
WOODRING ROAD

DRAWING
E-110
SHEET
46
OF 54 SHEETS

DATE: Jul 08, 2008 1:58pm
USER: mperdue
PROJECT: 20117.01 SANIBEL SEWER SYSTEM EXPANSION PROJECT
SHEET: 46 OF 54
FILE: 20117.01 SANIBEL SEWER SYSTEM EXPANSION PROJECT - E-110.DWG
PLOT: 20117.01 SANIBEL SEWER SYSTEM EXPANSION PROJECT - E-110.DWG



2 SINGLE LINE DIAGRAM
SCALE: N.T.S.



- NOTES:**
- 1 1 1/4" C, 4#3
 - 2 2" C., (2) PUMP CABLES
 - 3 2" C., FLOAT CONTROL CABLE

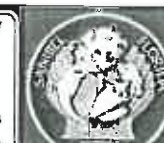
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 PLOTER: Sanibel Logo.dwg
 PLOTER: Sanibel Logo.dwg

REV	DATE	APPR

VERIFY SCALES		DESIGNED BY	PROJECT ENGINEER
BAR IS ONE INCH ON ORIGINAL DRAWING		MAP	MARK PELLUSH, PE
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		CHECKED BY	PROJECT NUMBER 20117.01
		MAP	CADD STANDARDS
		DATE 6/12/08	BOYLE

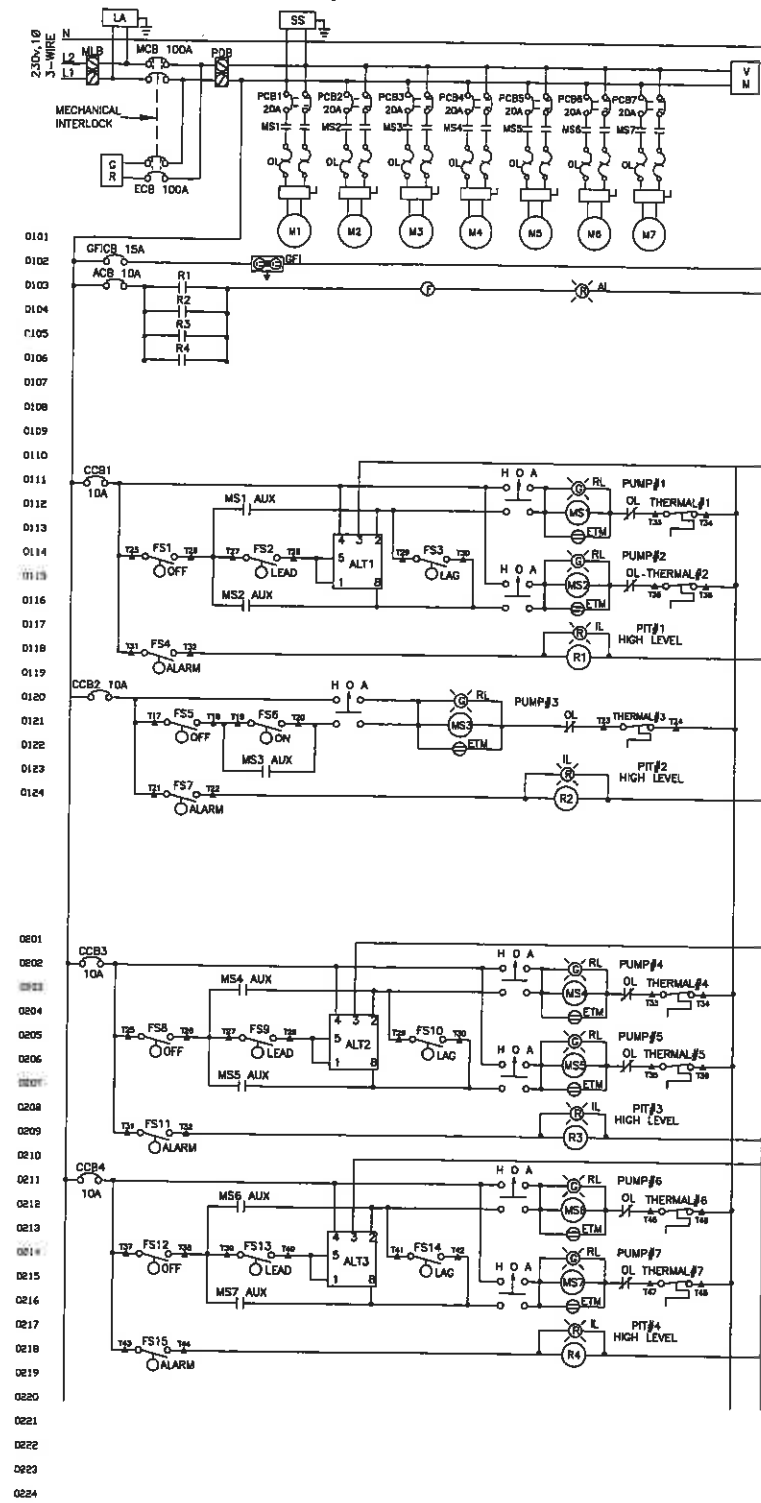
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SANIBEL SEWER SYSTEM EXPANSION PROJECT PHASE 4	DRAWING E-111
AREA F ELECTRICAL PLAN FERRY ROAD	SHEET 47 OF 54 SHEETS



NOTE:
1. INFORMATION ON THIS SHEET SHOWS TYPICAL ARRANGEMENT FOR TYPE I GRINDER PUMP CONTROL PANELS. REFER TO GRINDER PUMP STATION TABLE ON DRAWING E-503 FOR QUANTITIES OF SINGLE UNIT AND DOUBLE UNIT CIRCUITS FOR EACH PANEL.

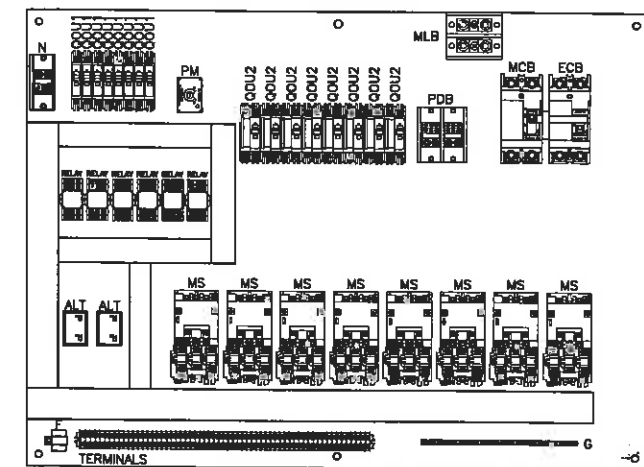
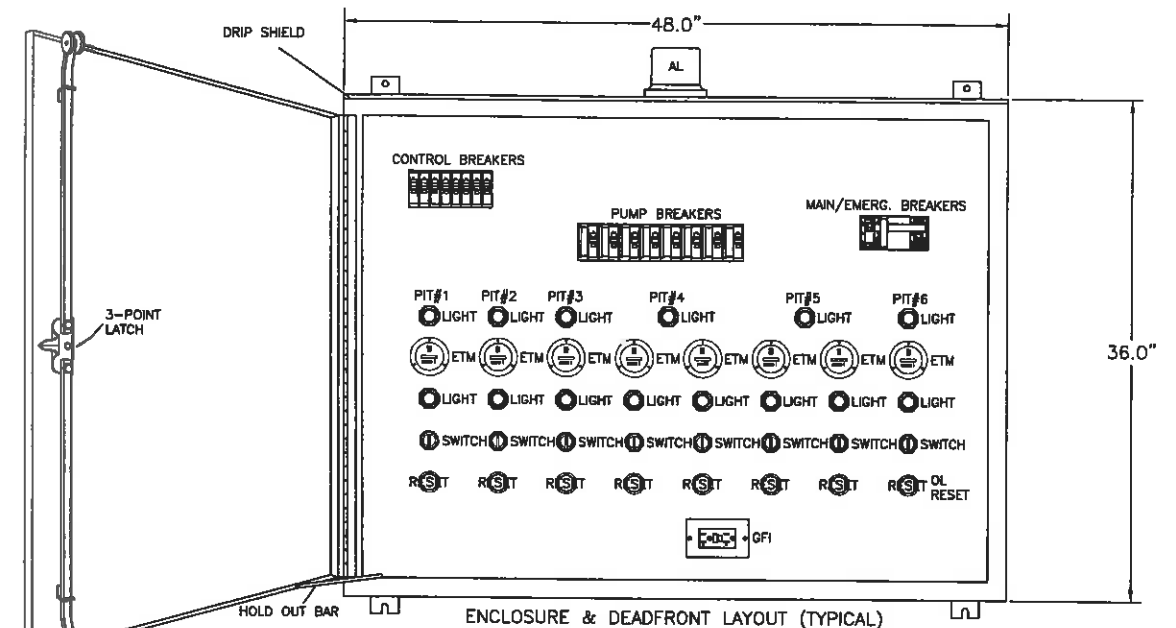
CONTROL DIAGRAM
SCALE: N.T.S.

TYPICAL SINGLE UNIT CIRCUIT
*SEE NOTE 1.

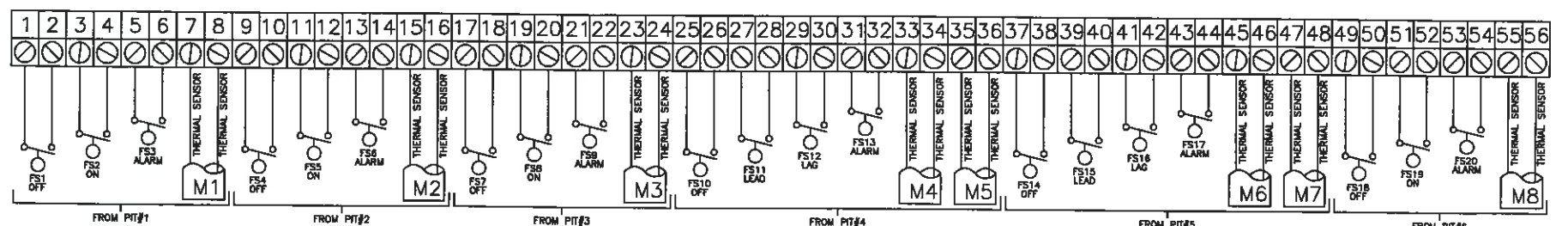
TYPICAL DOUBLE UNIT CIRCUIT
*SEE NOTE 1.

CONTROL PANEL ABBREVIATIONS

ENC	ENCLOSURE, 316SS, NEMA 3R/12, W/ 3PT. LATCH
MCB	MAIN CIRCUIT BREAKER
ECB	EMERGENCY CIRCUIT BREAKER
PCB1-8	PUMP CIRCUIT BREAKER
CCB1-6	CONTROL CIRCUIT BREAKER
ACB	ALARM CIRCUIT BREAKER
GFICB	G.F.I. CIRCUIT BREAKER
MS1-8	PUMP MOTOR STARTER
OL	OVERLOAD HEATER
GR	GENERATOR RECEPTACLE
VM	VOLTAGE MONITOR
ETM	ELAPSED TIME METER
AL	ALARM LIGHT W/ RED GLOBE
FL	FLASHER
HOA	HAND OFF AUTO SWITCH
RL	RUN LIGHT
IL	INDICATING LIGHT
GF	CONVENIENCE RECEPTACLE
R1-6	CONTROL RELAY
ALT1-2	ALTERNATING RELAY
TB	TERMINAL BLOCK
MLB	MAIN LUG BLOCK
PDB	POWER DISTRIBUTION BLOCK
NB	NEUTRAL BLOCK
GND	GROUND BAR
RESET	OVERLOAD RESET MECHANISM
LA	LIGHTNING ARRESTOR
SS	SURGE SUPPRESSOR



CONTROL PANEL FRONT VIEW
SCALE: N.T.S.



TERMINAL STRIP
SCALE: N.T.S.

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SANIBEL SEWER SYSTEM EXPANSION PROJECT
PHASE 4

TYPE I GRINDER PUMP CONTROL
PANEL DETAILS

E-501

SHEET
48

OF 54 SHEETS

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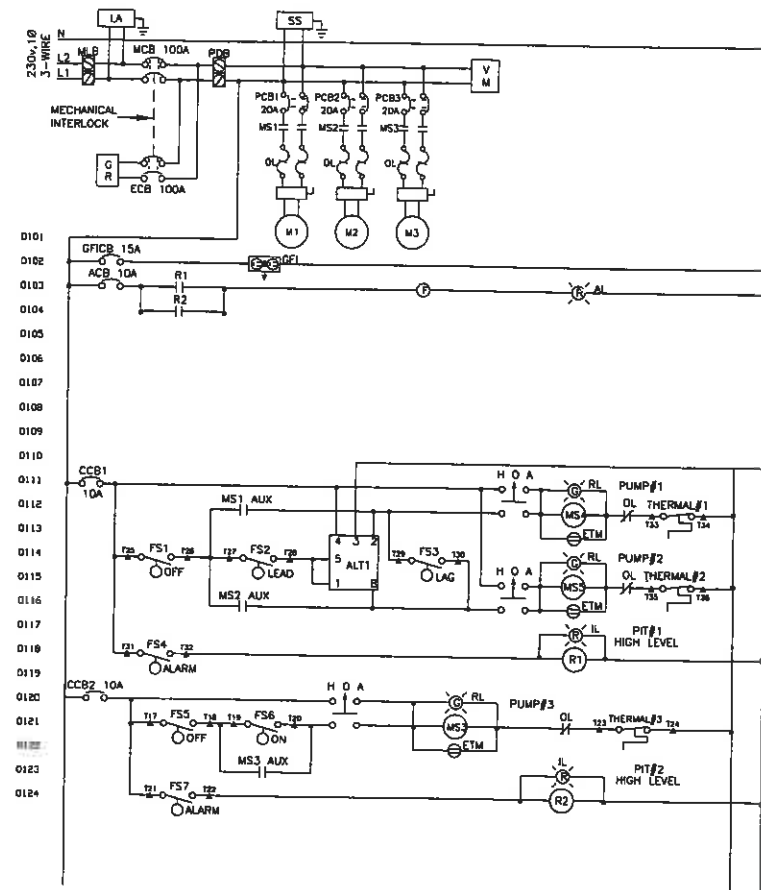
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6/12/08

PROJECT ENGINEER
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EXP. DATE
PROJECT NUMBER
CADD STANDARDS
BOYLE

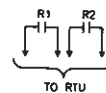
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NOTE:
1. INFORMATION ON THIS SHEET SHOWS TYPICAL ARRANGEMENT FOR TYPE II GRINDER PUMP CONTROL PANELS. REFER TO GRINDER PUMP STATION TABLE ON DRAWING E-503 FOR QUANTITIES OF SINGLE UNIT AND DOUBLE UNIT CIRCUITS FOR EACH PANEL.



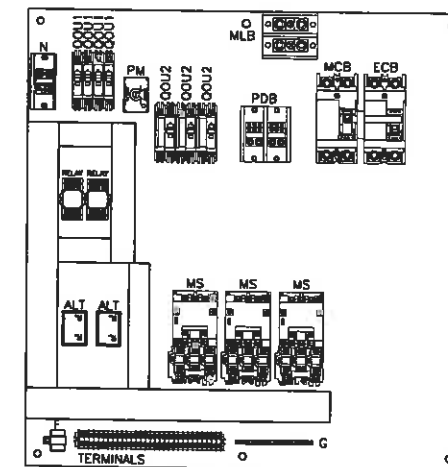
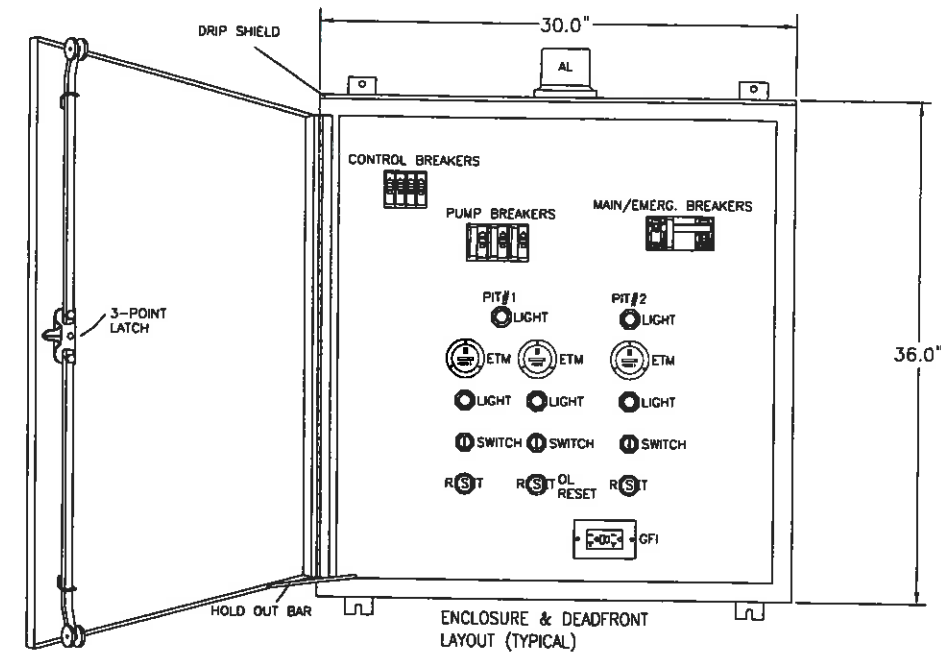
CONTROL DIAGRAM
SCALE: N.T.S.

TYPICAL DOUBLE
UNIT CIRCUIT
*SEE NOTE 1.

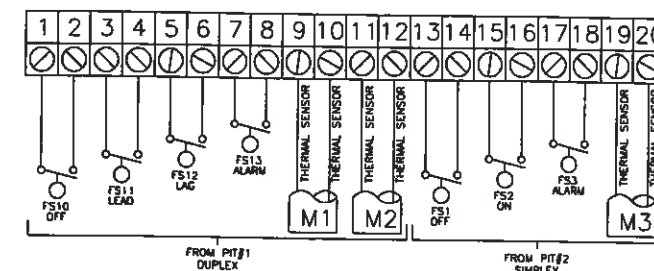
TYPICAL SINGLE
UNIT CIRCUIT
*SEE NOTE 1.

CONTROL PANEL ABBREVIATIONS

ENC	ENCLOSURE, 316SS, NEMA 3R/12, W/ 3PT. LATCH
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ACB	ALARM CIRCUIT BREAKER
GFCB	G.F.I. CIRCUIT BREAKER
MS1-8	PUMP MOTOR STARTER
OL	OVERLOAD HEATER
GR	GENERATOR RECEPTACLE
VM	VOLTAGE MONITOR
ETM	ELAPSED TIME METER
AL	ALARM LIGHT W/ RED GLOBE
FL	FLASHER
HOA	HAND OFF AUTO SWITCH
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TB	TERMINAL BLOCK
MLB	MAIN LUG BLOCK
PDB	POWER DISTRIBUTION BLOCK
NB	NEUTRAL BLOCK
GND	GROUND BAR
RESET	OVERLOAD RESET MECHANISM
LA	LIGHTNING ARRESTOR
SS	SURGE SUPPRESSOR



CONTROL PANEL FRONT VIEW
SCALE: N.T.S.



TERMINAL STRIP
SCALE: N.T.S.

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SANIBEL SEWER SYSTEM EXPANSION PROJECT
PHASE 4

TYPE II GRINDER PUMP CONTROL
PANEL DETAILS

E-502
SHEET
49
OF 54 SHEETS

VERIFY SCALES
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SCALES ACCORDINGLY

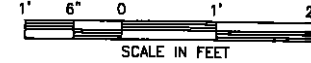
DESIGNED BY
MAP
DRAWN BY
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MAP
DATE
6/12/08

PROJECT ENGINEER
MARK PELLISH, PE
REG NUMBER
46906
EXP DATE
02/28/09
PROJECT NUMBER
20117.01
CADD STANDARDS
BOYLE

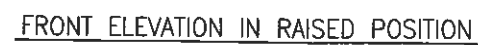
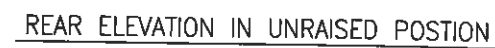
BOYLE
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4415 Melno Parkway, Suite 404
Fort Myers, Florida 33916
Tel: (239) 278-7996 Fax: (239) 278-0913
FL Engineering Business Number EB-2005
WWW.BOYLEENGINEERING.COM



City of Sanibel
800 Dunlap Road
Sanibel, Florida 33957
Phone (239) 472-6397
Fax (239) 472-6041



3 GROUNDING ROD
- SCALE: NONE



1 GRINDER PUMP CONTROL PANEL ENCLOSURE
- DETAILS



NOT TO BE USED FOR CONSTRUCTION

54 SHEETS 51

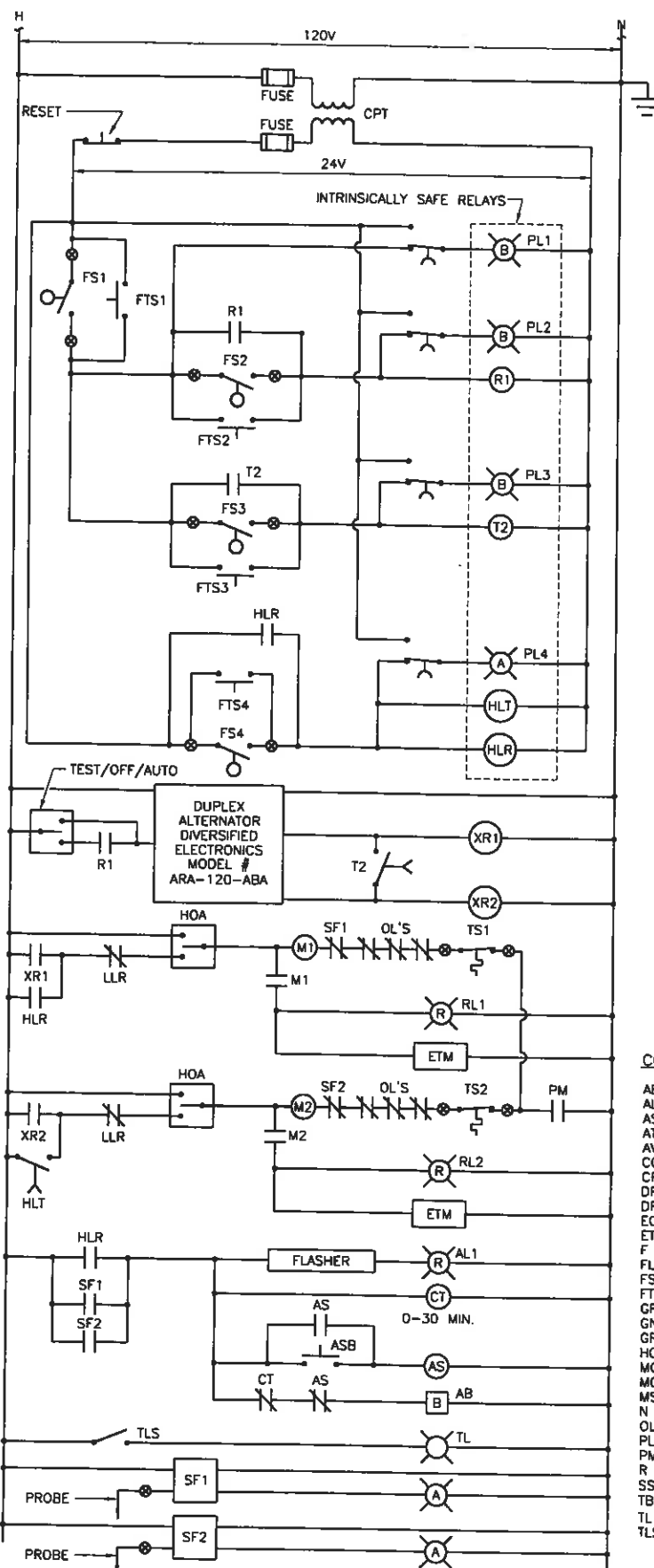
DWG: S:\Projects\Surinba\20117.01\CAV\Plans\I-E-504.dwg USER: mgordon
 DATE: Jul 08, 2008 2:03pm XREFS: M92-BD MACS: bcommsen.gif Surinba logo.six Surinba logo.gif

VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING  IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	DESIGNED BY MAP	PROJECT ENGINEER MARK PELLISH, PE	
	DRAWN BY MLG	REG. NUMBER 46906	EXP. DATE 02/28/09
	CHECKED BY MAP	PROJECT NUMBER 20117.01	
	DATE 6/12/08	CADD STANDARDS BOYLE	

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ENGINEERING CORPORATION
4415 Metro Parkway, Suite 404
Fort Myers, Florida 33916
Tel: (239) 278-7998 Fax: (239) 278-0913
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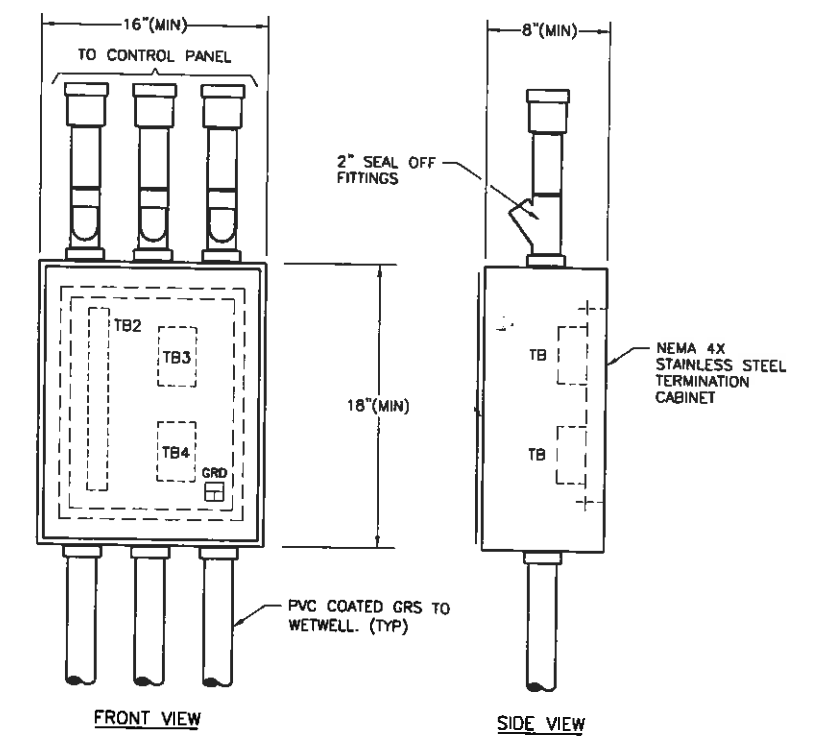
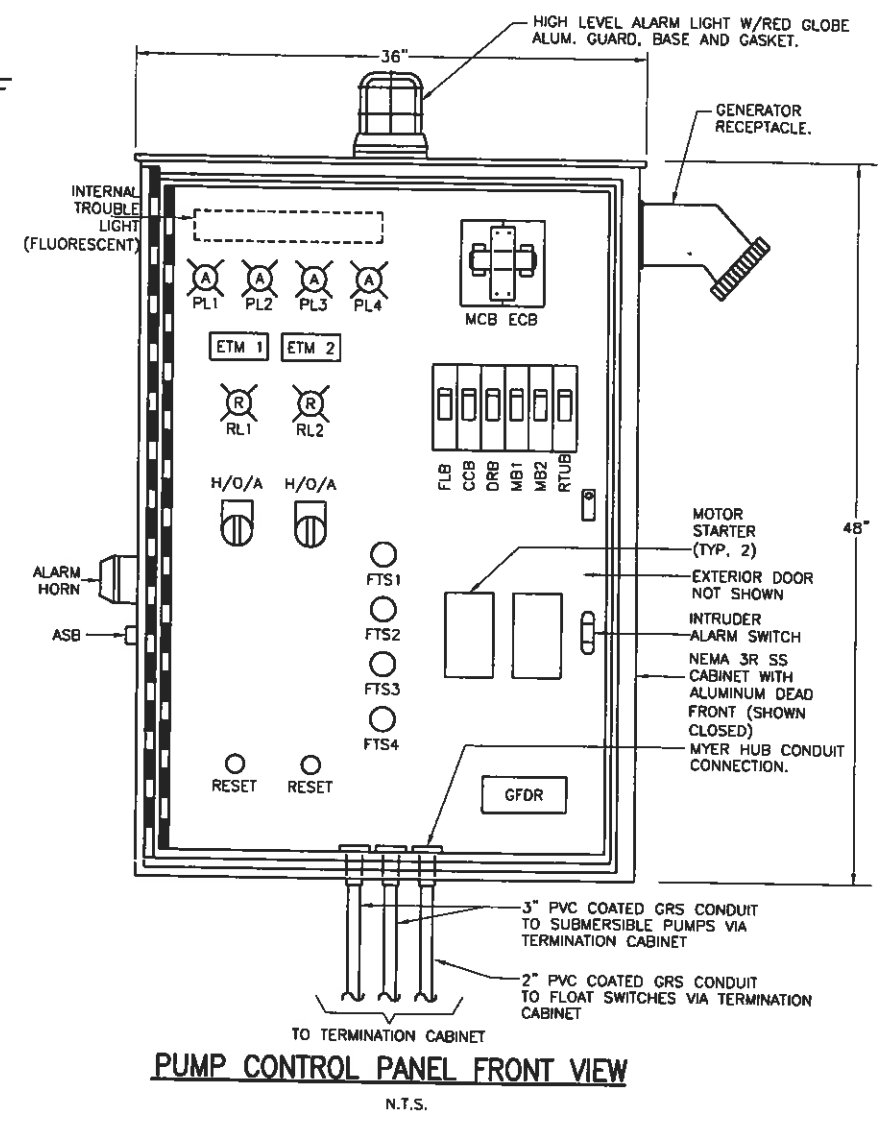


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DUPLUX CONTROL DIAGRAM

- CONTROL PANEL ABBREVIATIONS**
- AB ALARM BELL
 - AL ALARM LIGHT
 - ASB ALARM SILENCER BELL
 - ATS ALTERNATOR TEST SWITCH
 - AV AIR VENT
 - CCB CONTROL CIRCUIT BREAKER
 - CPT CONTROL POWER TRANSFORMER
 - DR DUPLEX RECEPTACLE
 - DRB DUPLEX RECEPTACLE BREAKER
 - ECB EMERGENCY CIRCUIT BREAKER
 - ETM ELAPSED TIME METER
 - F FUSE
 - FL FLASHER
 - FS FLOAT SWITCH
 - FTS FLOAT TEST SWITCH
 - GFDR GROUND FAULT DUPLEX RECEPTACLE
 - GND GROUND
 - GR GENERATOR RECEPTACLE
 - HOA HANDS-OFF-AUTOMATIC SELECTOR
 - MCB MAIN CIRCUIT BREAKER
 - MCP MOTOR CIRCUIT PROTECTOR
 - MS MOTOR STARTER
 - N NEUTRAL
 - OL OVERLOAD HEATERS
 - PL LEVEL INDICATORS (PUSH-TO-TEST)
 - PM PHASE MONITOR
 - R PUMP RUN INDICATORS (PUSH-TO-TEST)
 - SS STAINLESS STEEL
 - TB COPPER POWER TERMINATION LUGS
 - TL TROUBLE LIGHT (100W INCANDESCENT)
 - TLS TROUBLE LIGHT SWITCH



TERMINATION CABINET (TC)

N.T.S.
 * TERMINATION CABINET SHALL BE LOCKABLE WITH 3-POINT LATCH.

DWG: 211701-Submersible Pump Control Panel Details - 500.dwg
 DATE: Jun 11, 2008 2:23pm
 USER: scj
 PLOTTER: HP DesignJet 500
 PLOT: 24" x 36"

VERIFY SCALES	DESIGNED BY	PROJECT ENGINEER
BAR IS ONE INCH ON ORIGINAL DRAWING.	MAP	MARK PELLISH, PE
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	DRAWN BY	REG NUMBER 46906 EXP DATE 02/28/09
	ARM	
	CHECKED BY	PROJECT NUMBER 20117.01
	MAP	
	DATE	CADD STANDARD'S
	6/12/08	BOYLE

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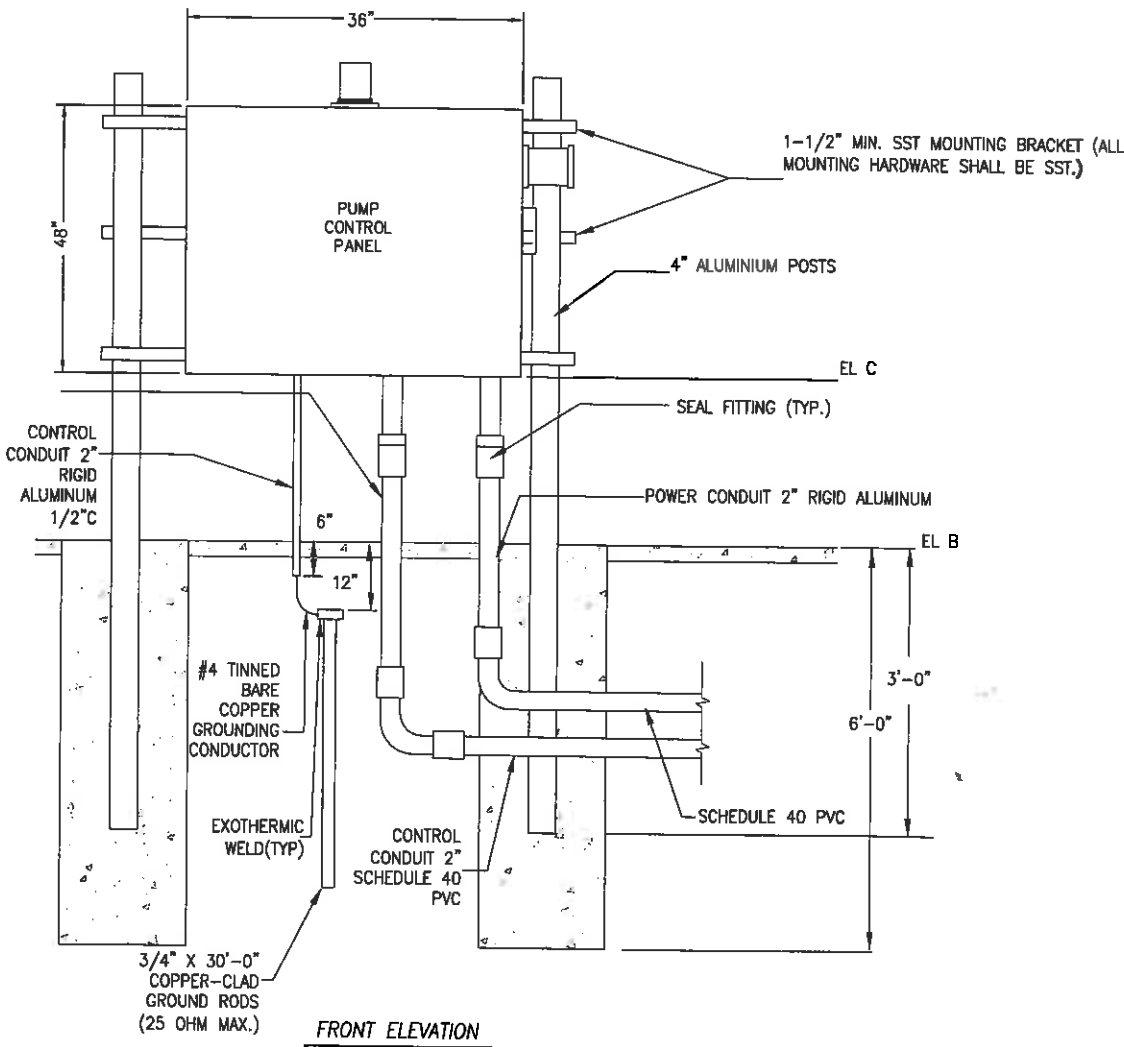
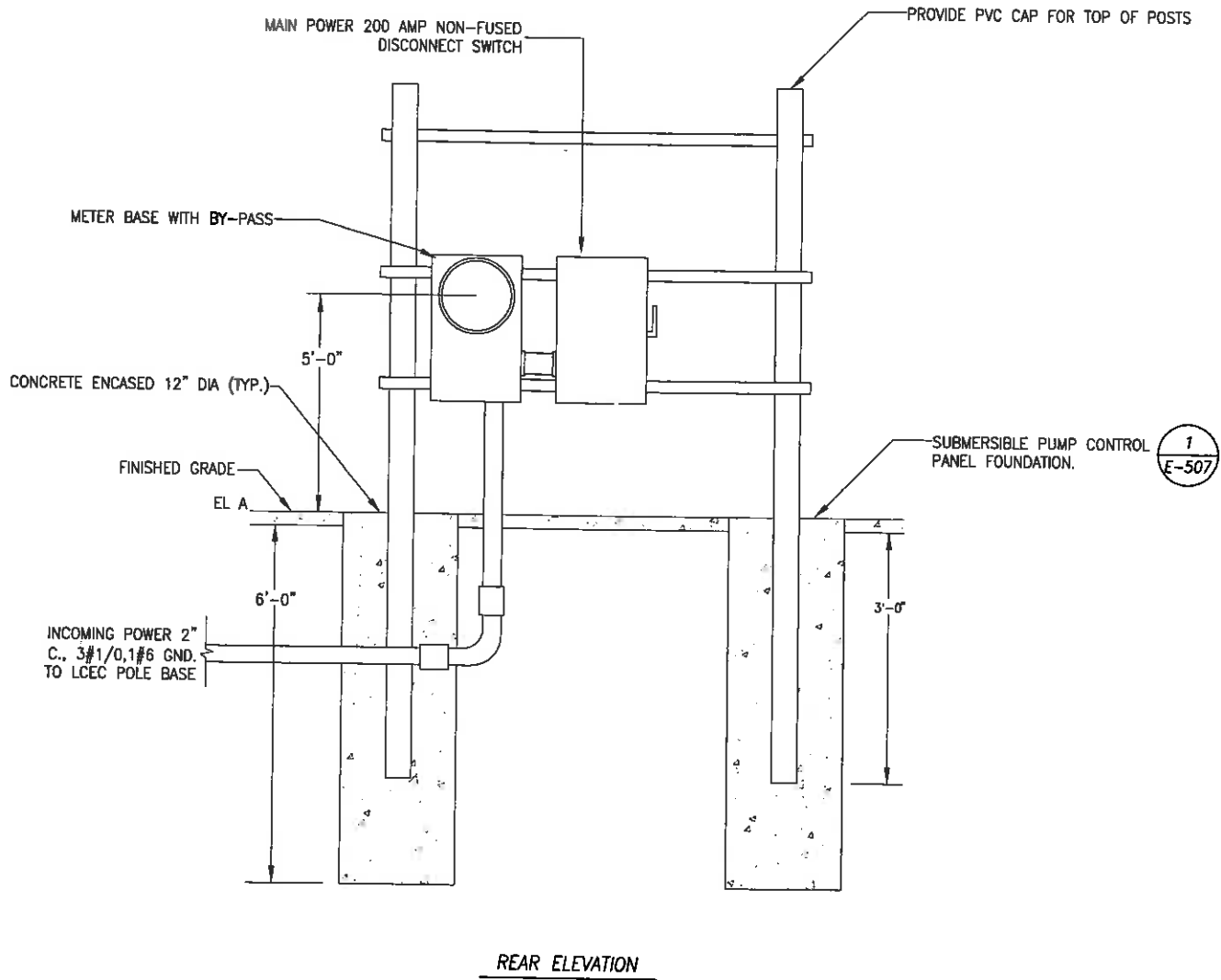
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SANIBEL SEWER SYSTEM EXPANSION PROJECT PHASE 4	
SUBMERSIBLE PUMP CONTROL PANEL DETAILS	
DRAWING E-505	SHEET 52 OF 54 SHEETS

SUBMERSIBLE PUMP CONTROL PANEL NO.	SERVICE AREA	NUMBER OF LIFT STATIONS	FINISHED GRADE ELEVATION-"A"	TOP OF FOOTING ELEVATION-"B"	BOTTOM OF PANEL ELEVATION-"C"	FEMA FLOOD ELEVATION
1	AREA D WINTERBOTTOM	1 DUPLEX	6.0	6.0	14.5	14.2
2	AREA F FERRY ROAD	1 DUPLEX	7.0	7.0	16.5	16.2

NOTES:

1. ALL ELEVATIONS REFERENCED TO NGVD 1929 DATUM.



1 SUBMERSIBLE PUMP CONTROL PANEL
SCALE : NONE

D:\Projects\Sanibel\2017\01\CAD\Plans\LE-506.dwg
User: mgordon
Date: 02/28/09
Sheet: 53 of 54
Title: SANIBEL SEWER SYSTEM EXPANSION PROJECT
Phase: PHASE 4
Drawing: SUBMERSIBLE PUMP CONTROL PANEL INSTALLATION DETAILS

DESIGNED BY	MAP	PROJECT ENGINEER	MARK PELLISH, PE
DRAWN BY	MLG	REG NUMBER	46906
CHECKED BY	MAP	EXP DATE	02/28/09
DATE	6/12/08	PROJECT NUMBER	20117.01
		CADD STANDARDS	BOYLE

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ENGINEERING CORPORATION
4415 Metro Parkway, Suite 404
Fort Myers, Florida 33918
Tel: (239) 278-7996 Fax: (239) 278-0913
FL Engineering Business Number EB-2005
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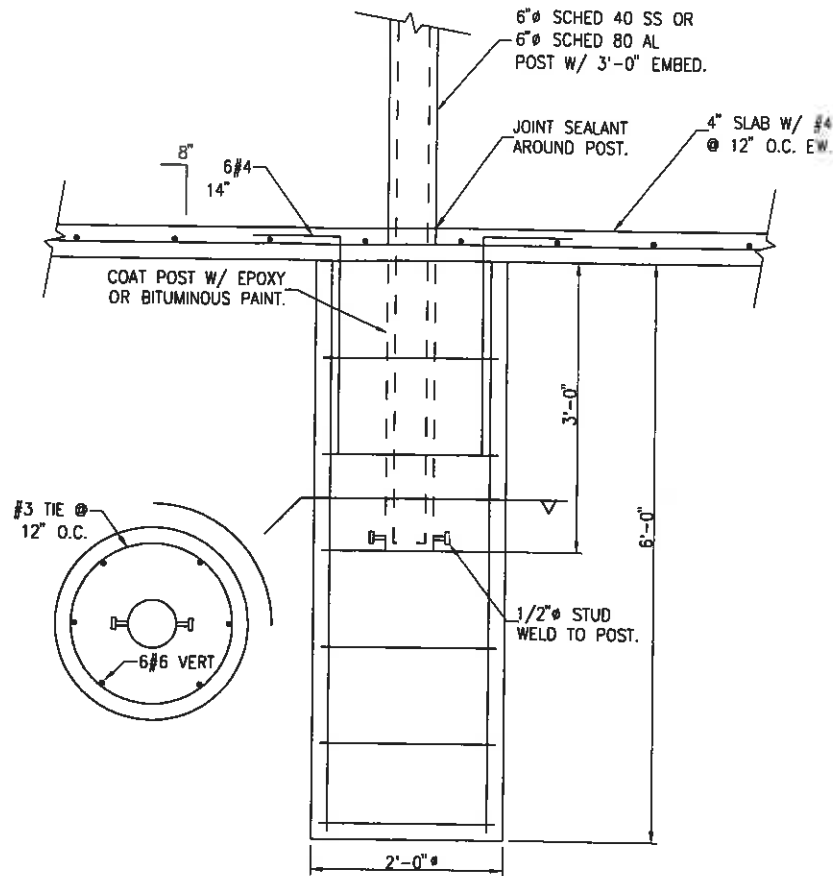


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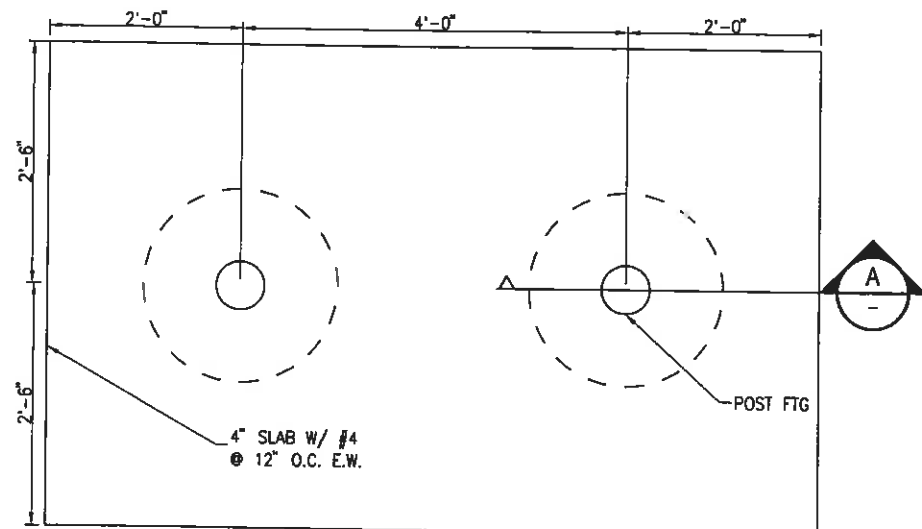
SANIBEL SEWER SYSTEM EXPANSION PROJECT
PHASE 4
SUBMERSIBLE PUMP CONTROL
PANEL INSTALLATION DETAILS

ISSUED FOR BIDDING
NOT TO BE USED FOR CONSTRUCTION

DRAWING
E-506
SHEET
53
OF 54 SHEETS

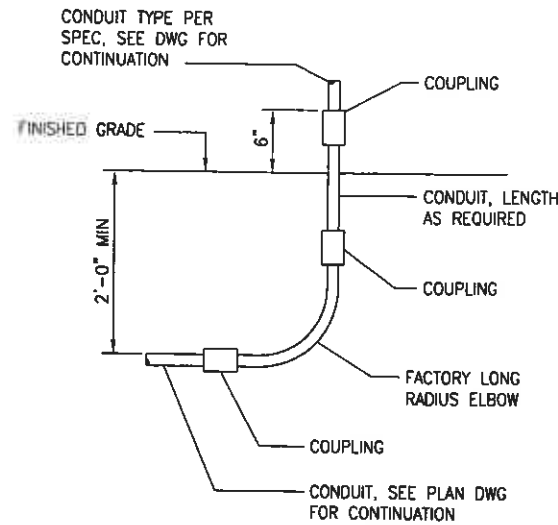


A SECTION

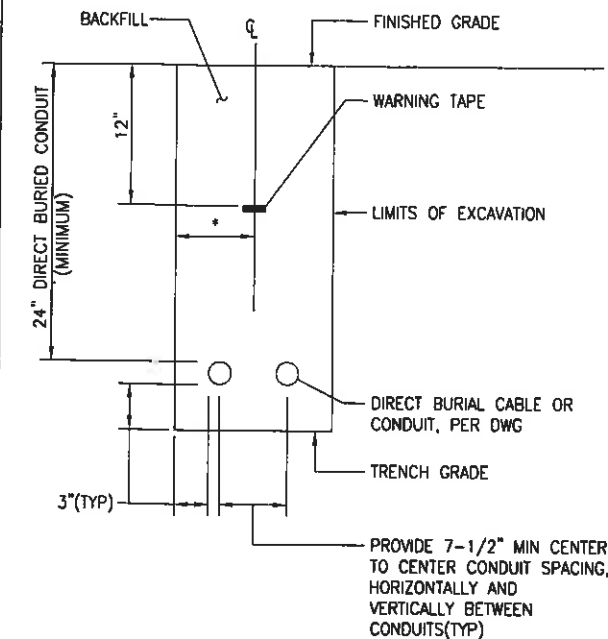


FOUNDATION PLAN

1 SUBMERSIBLE PUMP CONTROL PANEL FOUNDATION
SCALE: NONE

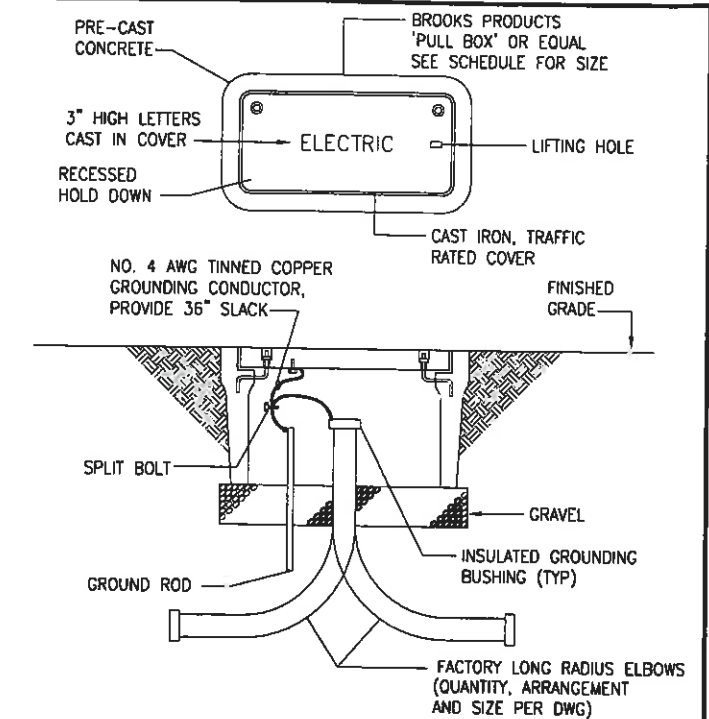


2 CONDUIT TRANSITION DETAILS
SCALE: NONE



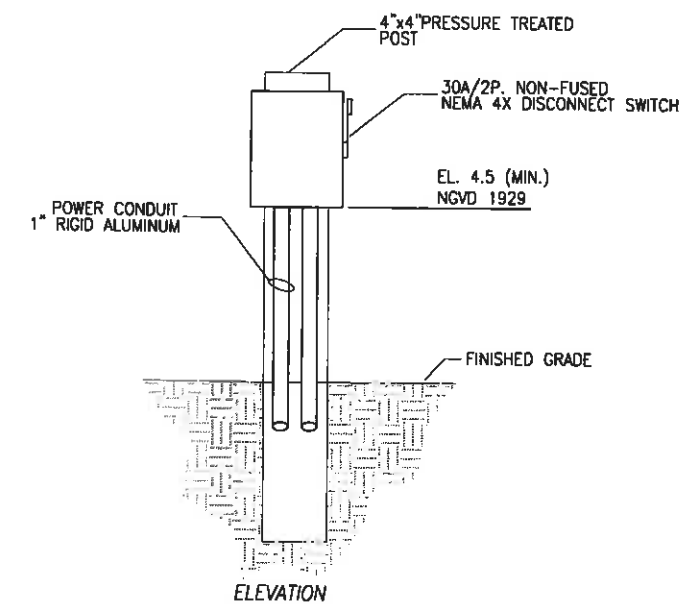
NOTES:
1. SEE "EARTHWORK AND TRENCHING" SPECIFICATION
FOR EXCAVATION AND BACKFILL.

3 DIRECT BURIAL INSTALLATION
SCALE: NONE



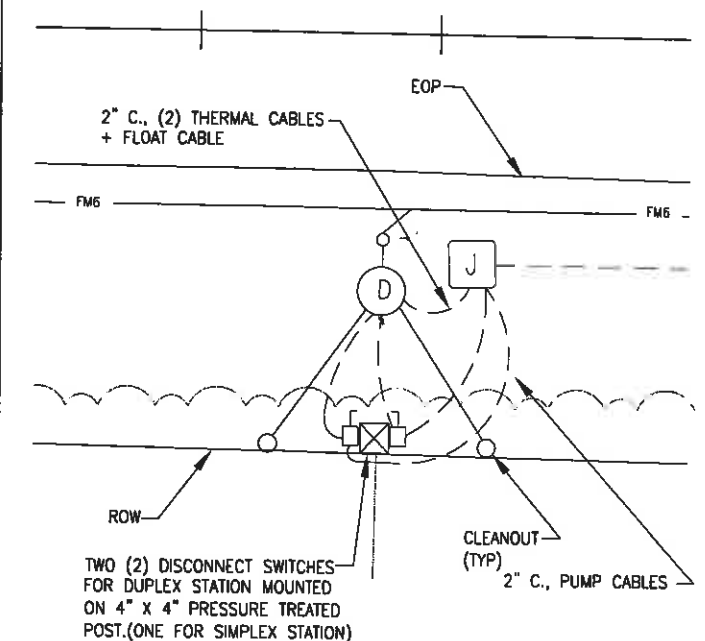
TYPE	NOMINAL SIZE	BROOKS PRODUCTS SERIES NO.
A	13"x24"x12"H	38

4 PRE-CAST PULLBOX (HANDHOLE)
SCALE: NONE



NOTES:
1. PROVIDE INDIVIDUAL DISCONNECT SWITCH FOR EACH PUMP. FOR DUPLEX
STATIONS, MOUNT BOTH SWITCHES ON SINGLE 4" X 4" POST.
2. USE SST MOUNTING HARDWARE

5 GRINDER PUMP
DISCONNECT SWITCH MOUNTING DETAIL
SCALE: NONE



6 TYPICAL GRINDER PUMP PLAN ELECTRICAL SITE PLAN
SCALE: NONE

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SANIBEL SEWER SYSTEM EXPANSION PROJECT
PHASE 4

ELECTRICAL DETAILS

E-507
SHEET
54
OF 54 SHEETS

VERIFY SCALES	DESIGNED BY	PROJECT ENGINEER
BAR IS ONE INCH ON ORIGINAL DRAWING	MAP	MARK PELLISH, PE
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	ARM	REG NUMBER 46906 EXP DATE 02/28/09
	MAP	PROJECT NUMBER 20117.01
	DATE 6/12/08	CADD STANDARDS BOYLE

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ENGINEERING CORPORATION
4415 Metro Parkway, Suite 404
Fort Myers, Florida 33916
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