Hancock Commons
Lake County, Florida
PCI# 7009

Prepared By:
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Sheet Index

*PLANS OBTAINED FROM KELLY, COLLINS & GENTRY, INC.

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Babu I. Patel, P.E.
Florida Reg. # 20941
Certificate of
Authorization # 9288

SEAL

PROJECT: HANCOCK COMMONS
LAKE COUNTY, FLORIDA

TITLE: COVER SHEET
PCI# 7009

DRAWN: JRS 1-30-07
APPROVED:
SCALE: NONE
REV: 0
SHEET: PC – 1

Hancock Commons, Clermont, FL January 28, 2007
PCI Project No. 7009

DESIGN CREITERIA:

- THIS DESIGN IS BASED ON NATIONAL CONCRETE MASONRY ASSOCIATION HYPOTHESIS FOR SR WALLS AND FLORIDA BUILDING CODE 2004 (WITH 2006 AMENDMENTS).
- LIVE LOAD SURCHARGE USED FOR THE DESIGN IS 250 POUNDS PER SQUARE FOOT (FOR THE ROADWAY), AT THE TOP OF THE WALL.
- GUARDS TO BE INSTALLED BY OWNER TO MEET ALL LOCAL AND FLORIDA BUILDING CODE 2004, SECTION 1012. REINFORCED CONCRETE SUPPORT IS PROVIDED FOR HAND RAIL INSTALLATION.
- REINFORCED CONCRETE SUPPORT IS PROVIDED FOR FLORIDA D.O.T. GUARD RAIL INSTALLATION.
- SUB-SURFACE WORK (AS RECOMMENDED BY ANDREYEV ENGINEERING, INC.) SHALL BE PERFORMED UNDER SUPERVISION BY QUALIFIED SOIL CONSULTANT. FOUNDATION SOIL SHALL BE PREPARED TO MEET OR EXCEED ALLOWABLE BEARING CAPACITY OF 2500 PSF.
- CONCRETE STRUCTURAL DESIGN IS BASED ON ACI - 318 AND CONSTRUCTION SHALL CONFORM TO ACI - 301 (LATEST EDITIONS).
- STANDARD TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS PER ACI 117.
- ALL CONSTRUCTION PROCEDURES SHALL MEET THE REQUIREMENTS OF OSHA AND OTHER LOCAL, STATE AND FEDERAL AGENCIES, TO PROTECT PERSONNEL AND EXISTING STRUCTURES.
- WALL DIMENSIONS SHOWN HERE SUPERCEDES ALL OTHER DRAWINGS.
- QUANTITY OF RETAINING WALL AS SHOWN IN THESE PLANS MAY BE INCREASED OR DECREASED (BASED ON CONSTRUCTION PROCEDURES AND ACTUAL SITE CONDITIONS), AT THE DIRECTION OF THE ARCHITECT / ENGINEER.

CONSTRUCTION:

THE CONTRACTOR INSTALLING THIS WALL MUST BE AN APPROVED / CERTIFIED ANCHOR WALL CONTRACTOR. THE SELECTED WALL CONTRACTOR SHALL HAVE A MINIMUM OF 500,000 SQUARE FEET OF SEGMENTAL RETAINING WALL INSTALLATION EXPERIENCE WITHIN LAST 3 YEARS. THIS EXPERIENCE MUST BE COMPRISED OF PROJECTS WITH SIMILAR
SIZE AND SCOPE.

ASSOCIATED CONSTRUCTION PRODUCTS (ACP) MEETS THIS QUALIFICATION.
ORLANDO OFFICE PHONE: 407-671-7444
TAMPA OFFICE PHONE: 813-973-4425

MATERIAL SPECIFICATIONS:

GEOGRID SOIL REINFORCEMENT SHALL BE MIRAGRID 5 XT, AS MANUFACTURED BY NICOLON MIRAFI GROUP, GEOGRID SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS PRINTED INSTRUCTIONS.

CONCRETE MASONRY UNITS SHALL BE ANCHOR WALL SYSTEM UNITS AS MANUFACTURED BY ANCHOR BLOCK OF FLORIDA, INC. UNITS SHALL BE 8" VERTICA (WITH 2 DEGREE BATTER). ANCHOR WALL UNITS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS PRINTED INSTRUCTIONS. VISTA UNITS SHALL BE 8" x 9" x 18". COMPRESSIVE STRENGTH SHALL BE A MINIMUM OF 3000 PSI. VISTA UNITS SHALL MEET ASTM C90. VISTA UNITS (ALL) CELLS SHALL BE FILLED AND CONSOLIDATED WITH 3000-PSI CONCRETE.

GUARD RAIL SUPPORT CONCRETE TO BE 4000 PSI AT 28 DAYS AND REINFORCING STEEL TO BE ASTM A-615, GRADE 60.

ALL CONCRETE SURFACES SHALL RECEIVE CURING COMPOUND IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATION. CURING COUMPOUND SHALL BE A LIQUID MEMBRANE - FORMING COUMPOUND CONFIRMING TO ASTM A-309. THE COUMPOUND SHALL BE TYPE 1, CLEAR OR TRANSLUCENT, AND SHALL CONTAIN A FUGUTIVE DYE.

CONCRETE PLACEMENT:

MINIMUM TWO CYLINDERS SHALL BE TAKEN AT "EACH POUR". THESE TWO SHALL BE TESTED AT TWENTY-EIGHT DAYS. AVERAGE OF TWO CYLINDERS SHALL BE THE STRENGTH OF THE CONCRETE.

FOUNDATION:

ALL UNSUITABLE MATERIAL SUCH AS MUCK SHALL BE REMOVED FROM UNDERNEATH AS REQUIRED. STRUCTURAL FILL SHALL BE COMPACTED TO 95% OF THE MODIFIED PROCTOR, MAXIMUM DRY DENSITY (ASTM D-1557). FOUNDATION AREA SHALL BE DEWATERED PRIOR TO FOUNDATION CONSTRUCTION.

DRAINAGE FILL:

DRAINAGE FILL SHALL BE FREE DRAINING CRUSHED STONE, 3/8" TO 3/4." IT SHALL MEET THE AASHTO #57 OR #67 STONE

FILTER FABRIC:

FILTER FABRIC SHALL BE 6 OZ. NON-WOVEN GEOTEXTILE. PROVIDE 12 INCH LAP @ VERTICAL JOINTS AND 2 INCHES TURNING @ EACH LAYER OF GEOGRID. EXTEND FILTER FABRIC 18" BEYOND JOINT WITH EXISTING STRUCTURES AND WRAP IT WITH EXISTING STRUCTURE.

BACKFILL MATERIAL:

BACKFILL MATERIAL SHALL BE CLEAN FREE DRAINING SAND WITH 10% OR LESS FINES. SAND FRICTION ANGLE SHALL BE 30 DEGREES MINIMUM. THIS MATERIAL SHALL BE APPOVED BY SOIL CONSULTANT TO INSURE THAT IT MEETS THESE CRITERIA.

ANCHOR WALL UNIT INSTALLATION:

INSURE THAT UNITS ARE IN FULL CONTACT WITH BASE. FILL ALL VOIDS AT UNITS WITH DRAINAGE FILL MATERIAL. TEMP FILL. SWEEP ALL EXCESS MATERIAL FROM TOP OF UNITS AND INSTALL NEXT COURSE. INSURE THAT EACH COURSE IS COMPLETELY FILLED WITH CRUSHED STONE.

PULL THE UNITS FORWARD UNTIL THE LOCATING SURFACE OF THE UNIT CONTACTS THE LOCATING SURFACE OF THE UNITS IN THE PRECEDING COURSE. PULL THE UNIT FORWARD AS FAR AS POSSIBLE.

GEOGRID INSTALLATION:

THE GEOGRID SOIL REINFORCEMENT SHALL BE LAID HORIZONTALLY ON TOP OF THE ANCHOR WALL UNIT AND HORIZONTALLY ON COMPACTED BACK FILL.

PULL TAUT AND ANCHOR BEFORE PLACING BACKFILL ON THE GEOGRID. CORRECT ORIENTATION (ROLL DIRECTION) OF THE GEOGRID SHALL BE VERIFIED BY THE CONTRACTOR.

FILL PLACEMENT:

BACKFILL MATERIAL SHALL BE PLACED IN 12 INCH LIFTS AND COMPACTED TO 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D - 1557). VIBRATORY PLATE COMPACTOR SUCH AS "BPU 3345 A" BY WACKER CORPORATION CAN BE USED.

TESTING METHODS AND FREQUENCY, VERIFICATIONS OF MATERIAL SPECIFICATIONS AND COMPACTION SHALL BE PER SOIL CONSULTANT'S RECOMMENDATIONS.

FILTER FABRIC SHALL BE PLACED BETWEEN CRUSHED STONE AND SAND.

ONLY HAND OPERATED COMPACTION EQUIPMENT SHALL BE ALLOWED WITHIN 5 FEET OF THE BACK SURFACE OF THE ANCHOR UNITS. HEAVY CONSTRUCTION EQUIPMENT SHALL NOT BE ALLOWED WITHIN THIS DISTANCE. BACKFILL SHALL BE PLACED FROM THE WALL REARWARD INTO THE EMBANKMENT TO INSURE THAT THE GEOGRID REMAINS TAUT.

TRACK MOUNTED CONSTRUCTION EQUIPMENT SHALL NOT BE OPERATED DIRECTLY ON THE GEOGRID. A MINIMUM BACKFILL THICKNESS OF 6 INCHES IS REQUIRED PRIOR TO OPERATION OF TRACK MOUNTED VEHICLES OVER THE GEOGRID. TURNING OF TRACK MOUNTED VEHICLES SHOULD BE KEPT TO A MINIMUM TO PREVENT TRACKS FROM DISPLACING THE FILL AND DAMAGING THE GEOGRID.

RUBBER TIRED EQUIPMENT MAY PASS OVER THE GEOGRID AT SLOW SPEED, LESS THAN 10 MPH. SUDDEN BRAKING AND SHARP TURNING SHALL BE AVOIDED.

CONSTRUCTION TOLERANCES:

VERTICAL CONTROL:
± 1.25 INCHES OVER A 10 FOOT DISTANCE

HORIZONTAL LOCATION CONTROL:
STRAIGHT LINES: ± 1.25 INCHES OVER A 10-FOOT DISTANCE
STRAIGHT AND RADIUS CORNER LOCATION: ± 1.0 FOOT
CURVES AND SERPENTINE RADIUS: ± 2.0 FOOT

ROTATION:
FROM ESTABLISHED PLAN WALL BATTER: 2.0 DEGREES
MAXIMUM, ± 10 % FROM TOTAL ESTABLISHED HORIZONTAL SETBACK

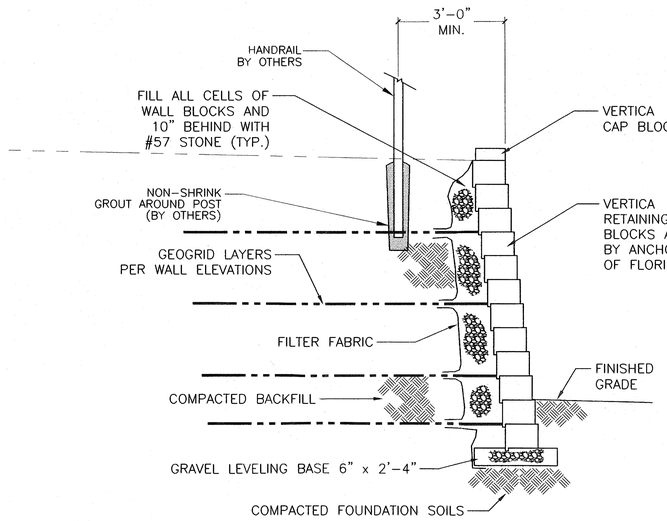
BULGING:
1.25 INCH OVER A 10 FOOT DISTANCE

TREE PLANTING:

CONTACT WALL INSTALLER PRIOR TO PLANTING ANY LANDSCAPING ADJACENT TO WALL, TO AVOID DAMAGE TO THE GEOGRID.

WALL LAYOUT:

THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE LOCATION OF THE WALL AND SHALL LOCTE THE WALL PRIOR TO START OF THE CONSTRUCTION.



CROSS SECTION
RETAINING WALL
WITH FENCE OR HANDRAIL

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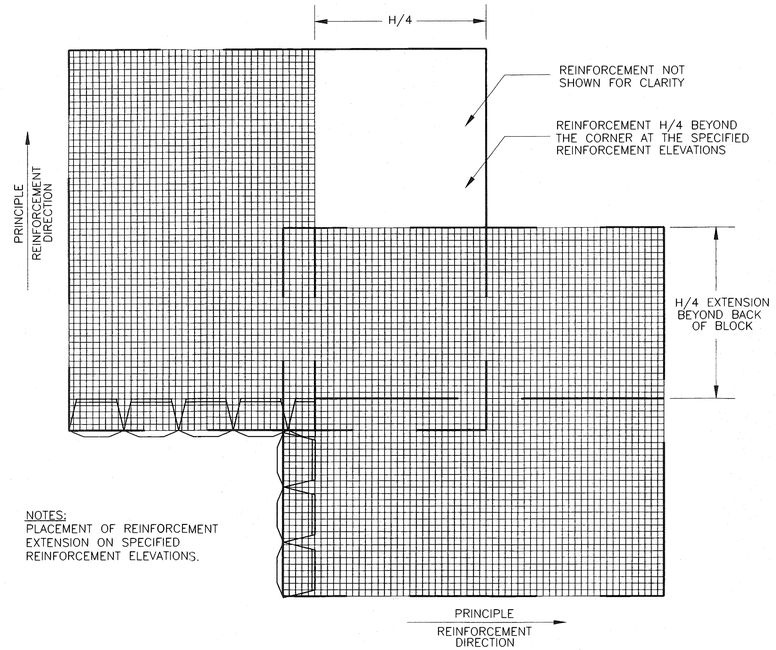
Certificate of Authorization # 9288

SEAL
1/31/07

PROJECT: HANCOCK COMMONS
LAKE COUNTY, FLORIDA

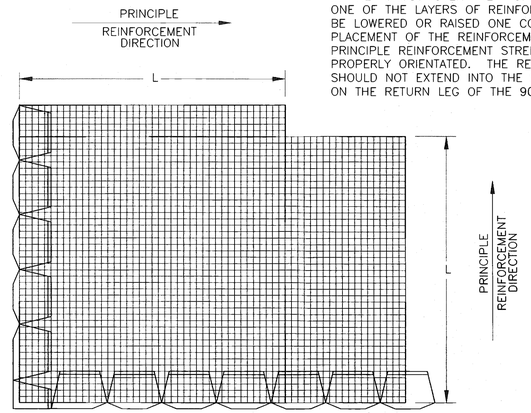
TITLE: CONSTRUCTION NOTES
PCI# 7009

DRAWN: JRS 1-30-07
APPROVED:
SCALE: NONE
REV: 0
SHEET: PC - 2



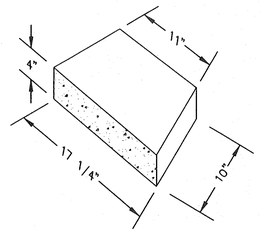
NOTES:
PLACEMENT OF REINFORCEMENT EXTENSION ON SPECIFIED REINFORCEMENT ELEVATIONS.

GEOGRID REINFORCEMENT @ INSIDE CORNERS
(NOT TO SCALE)

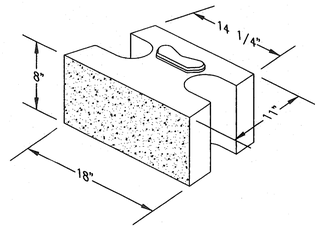


IN THE "CROSS-OVER AREA" OF REINFORCEMENT, ONE OF THE LAYERS OF REINFORCEMENT SHOULD BE LOWERED OR RAISED ONE COURSE TO ALLOW PLACEMENT OF THE REINFORCEMENT WITH THE PRINCIPLE REINFORCEMENT STRENGTH DIRECTION PROPERLY ORIENTATED. THE REINFORCEMENT SHOULD NOT EXTEND INTO THE SEGMENTAL UNITS ON THE RETURN LEG OF THE 90 DEGREE CORNER.

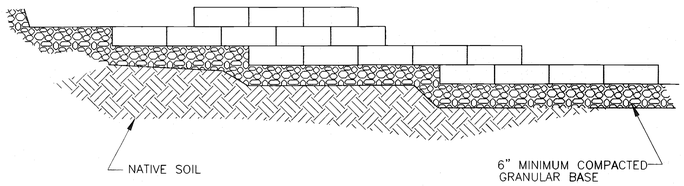
GEOGRID REINFORCEMENT @ OUTSIDE CORNERS
(NOT TO SCALE)



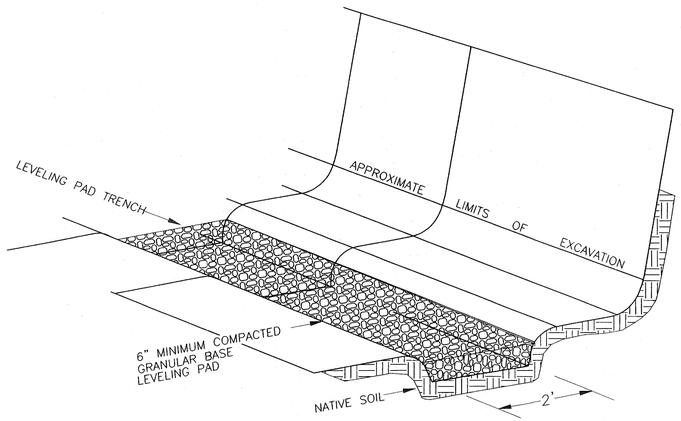
ANCHOR VERTICA CAP UNIT 3-D VIEW
(NOT TO SCALE)



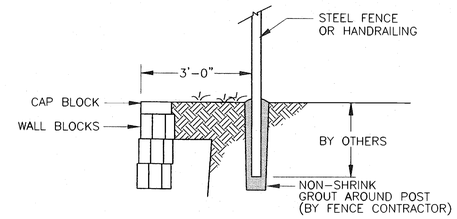
ANCHOR VERTICA STRAIGHT UNIT 3-D VIEW
(NOT TO SCALE)



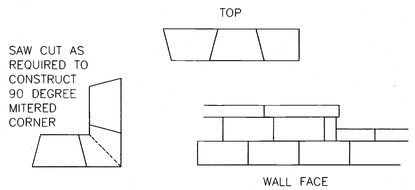
TYPICAL FOOTER STEP-UP DETAIL
(NOT TO SCALE)



LEVELING PAD/FOOTER DETAIL
(NOT TO SCALE)



FENCE POST INSTALLATION DETAIL
(NOT TO SCALE)



1. ALWAYS START CAPPING WALL FROM THE LOWEST ELEVATION.
2. LAYOUT CAPS PRIOR TO USING ADHESIVE.
3. CUT CAPS TO FIT. VARIOUS COMBINATIONS OF LONG AND SHORT CAP FACES WILL BE NECESSARY FOR RADII GREATER THAN THE MINIMUM.
4. ALTERNATE SHORT AND LONG CAP FACES EVERY OTHER CAP TO ACHIEVE A STRAIGHT ROW OF CAPS.
5. USE EXTERIOR-GRADE CONSTRUCTION ADHESIVE TO SECURE CAPS.
6. THE SPLIT FACE OF THE VERTICA CAP TO HAVE A 1" NOMINAL OVERHANGE OR EYEBROW.

TYPICAL VERTICA CAP DETAIL
(NOT TO SCALE)

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Certificate of Authorization # 9288

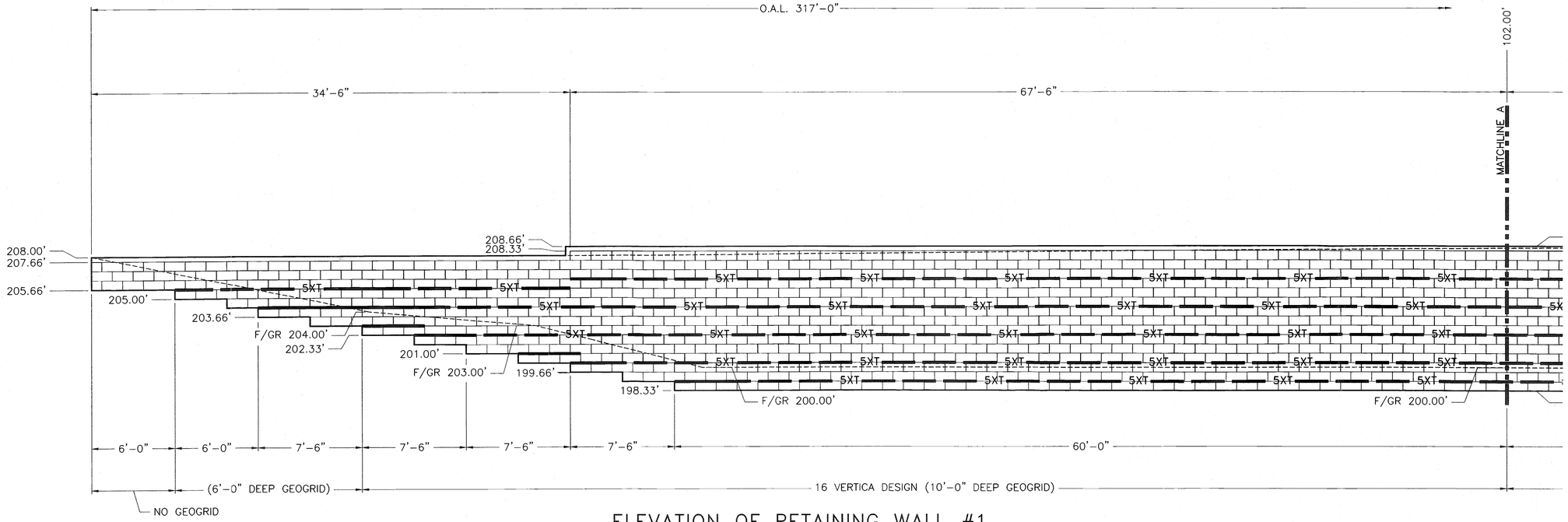
SEAL
Babu I. Patel 1/31/07

PROJECT
HANCOCK COMMONS
LAKE COUNTY, FLORIDA

TITLE
ANCHOR BLOCK DETAILS
PCI# 7009

DRAWN	SCALE	REV	SHEET
JRS 1-30-07	NONE	0	PC - 3

APPROVED



ELEVATION OF RETAINING WALL #1

AT FACE OF WALL

ALL CAPS TO BE 4" CAP UNITS.
ALL BLOCKS TO BE 8" VERTICA (2° BATTER) WALL UNITS, EXCEPT WHERE NOTED.
ALL GEOGRID TO BE MIRAFI 5XT.
REFER TO ENGINEERING CROSS-SECTION FOR INFORMATION NOT SHOWN.

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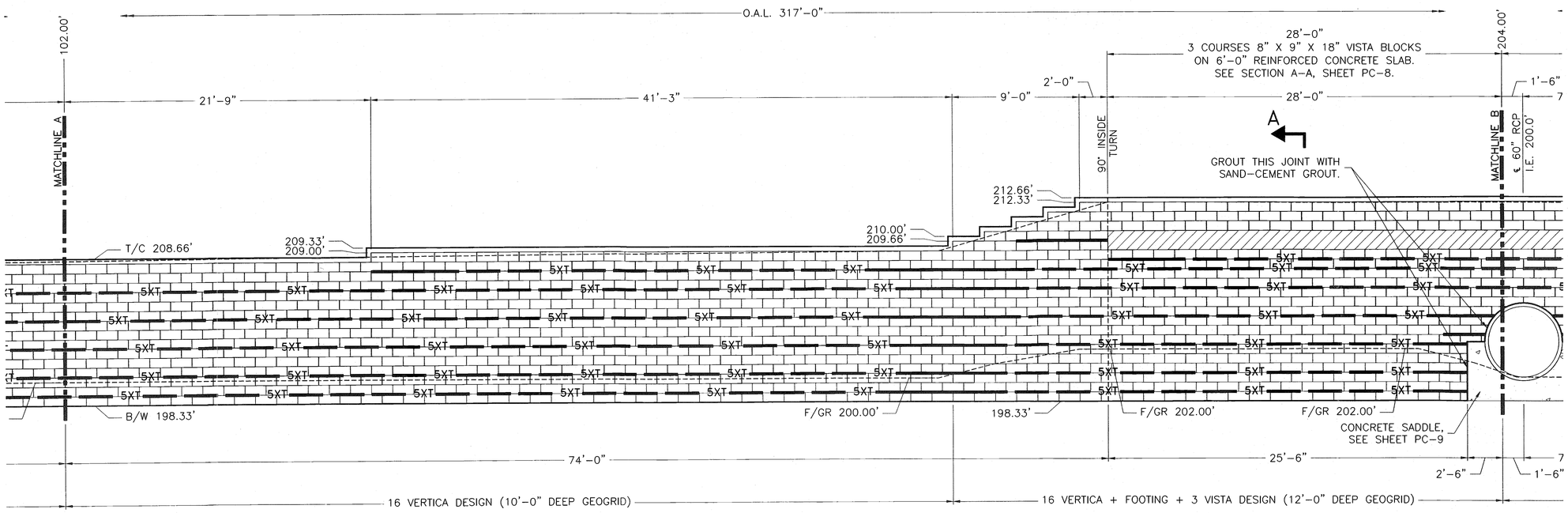
SEAL

1/31/07

PROJECT: HANCOCK COMMONS
LAKE COUNTY, FLORIDA

TITLE: ELEVATION OF RETAINING WALL #1
PCI# 7009

DRAWN: JRS 1-30-07
APPROVED:
SCALE: 1/4" = 1'-0"
REV: 0
SHEET: PC - 4



ELEVATION OF RETAINING WALL #1

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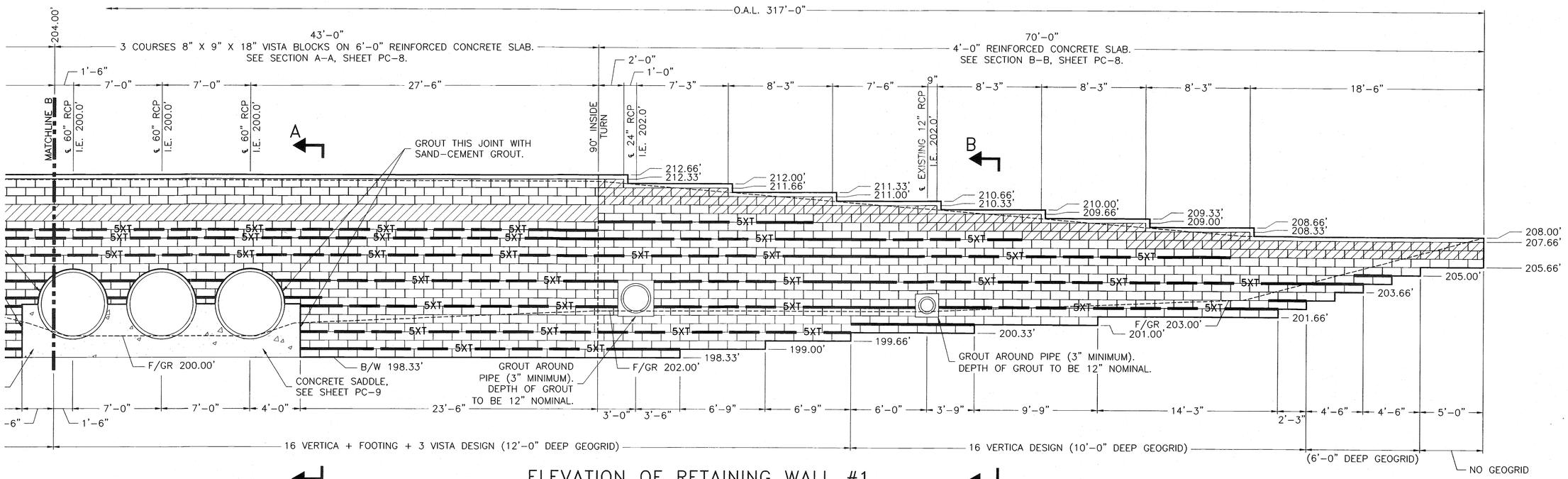
PROJECT: HANCOCK COMMONS
LAKE COUNTY, FLORIDA

TITLE: ELEVATION OF RETAINING WALL #1
PCI# 7009

DRAWN	SCALE	REV	SHEET
JRS 1-30-07	1/4" = 1'-0"	0	PC - 5

APPROVED



ELEVATION OF RETAINING WALL #1
AT FACE OF WALL

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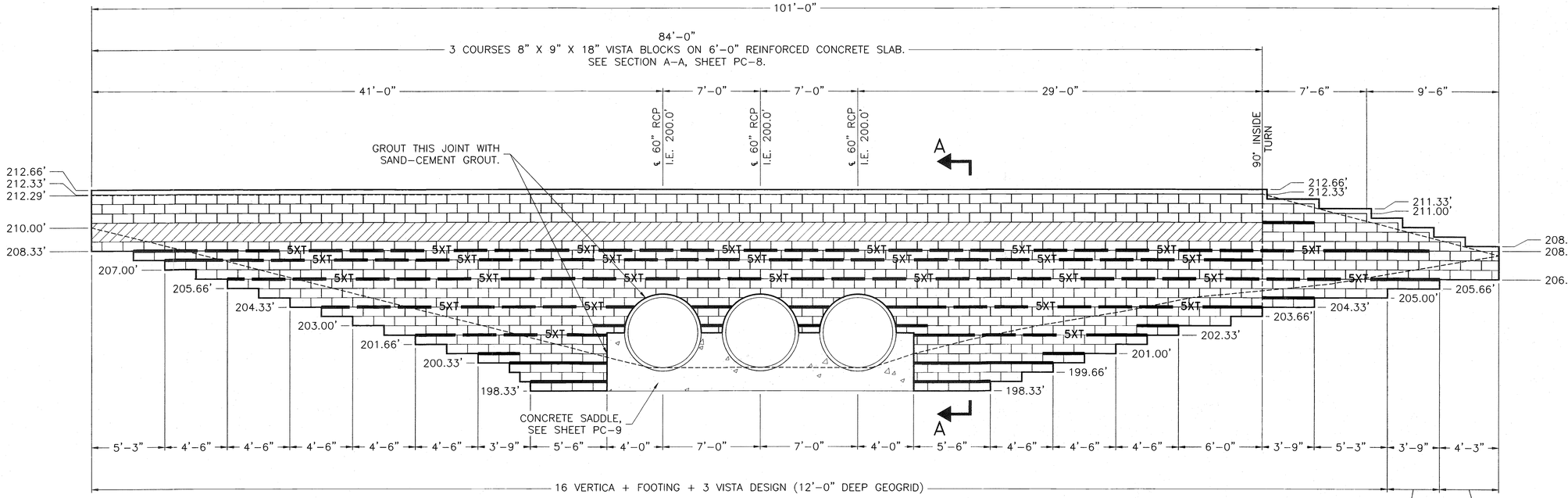
Babu I. Patel 1/31/07

PROJECT
HANCOCK COMMONS
LAKE COUNTY, FLORIDA

TITLE
ELEVATION OF RETAINING WALL #1
PCI# 7009

DRAWN	SCALE	REV	SHEET
JRS 1-30-07	1/4" = 1'-0"	0	PC - 6

APPROVED



ELEVATION OF RETAINING WALL #2

AT FACE OF WALL

ALL CAPS TO BE 4" CAP UNITS.
ALL BLOCKS TO BE 8" VERTICA (2° BATTER) WALL UNITS, EXCEPT WHERE NOTED.
ALL GEOGRID TO BE MIRAFI 5XT.
REFER TO ENGINEERING CROSS-SECTION FOR INFORMATION NOT SHOWN.

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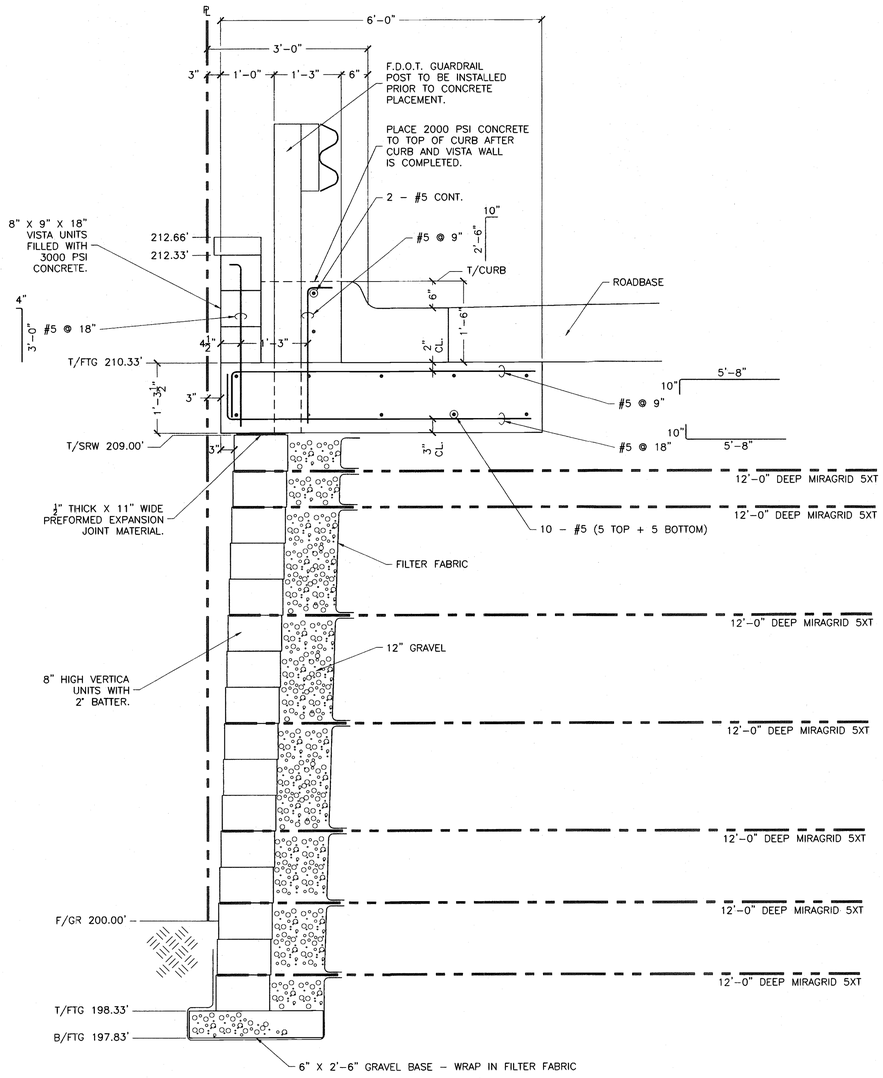
PROJECT
HANCOCK COMMONS
LAKE COUNTY, FLORIDA

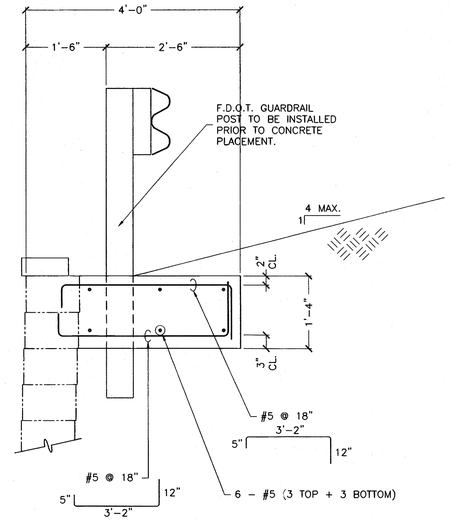
TITLE
ELEVATION OF RETAINING WALL #2
PCI# 7009

DRAWN	SCALE	REV	SHEET
JRS 1-30-07	1/4" = 1'-0"	0	PC - 7

APPROVED



SECTION A-A



SECTION B-B

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SEAL

BIP 1/31/07

PROJECT

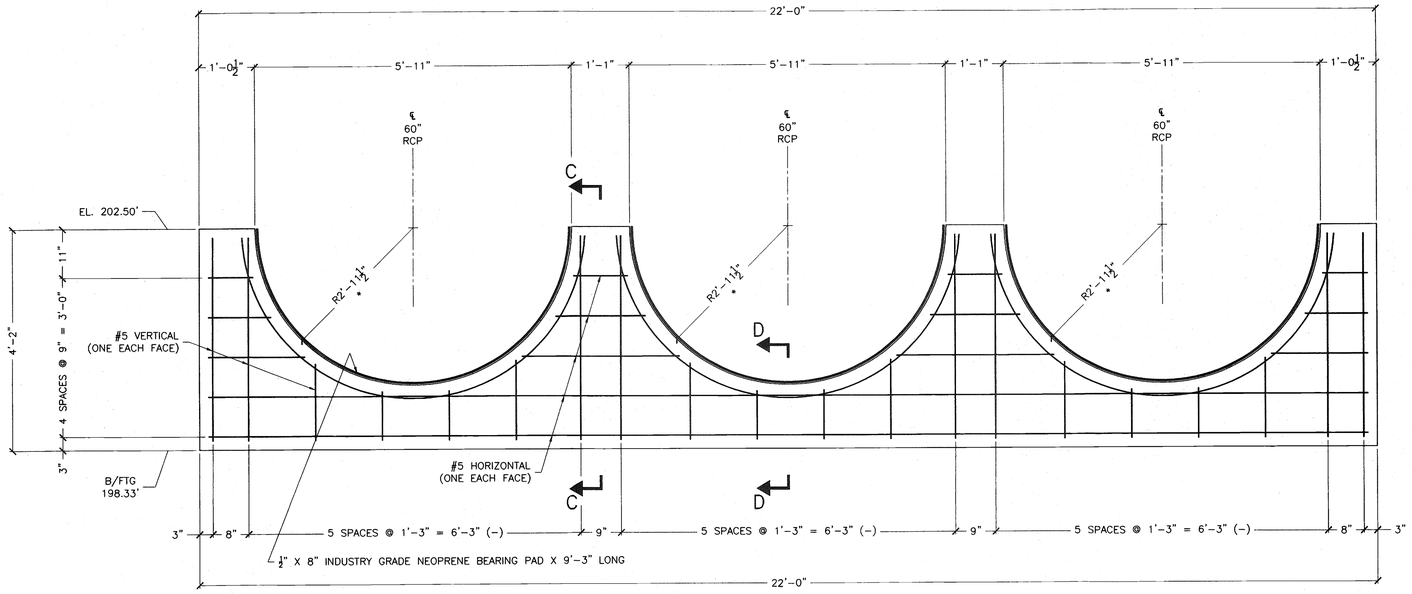
HANCOCK COMMONS
LAKE COUNTY, FLORIDA

TITLE

CROSS SECTIONS
PCI# 7009

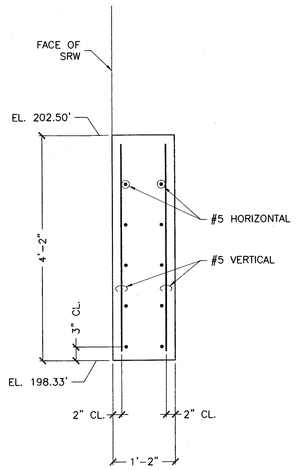
DRAWN	SCALE	REV	SHEET
JRS 1-30-07	3/4" = 1'-0"	0	PC - 8

APPROVED

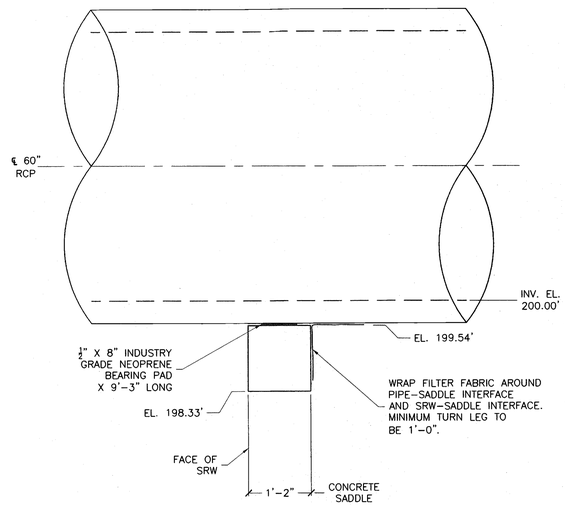


* CONTRACTOR TO VERIFY PIPE OUTSIDE DIAMETER (70 INCHES) PRIOR TO PLACING THIS CONCRETE.

PIPE SADDLE DETAIL



SECTION C–C
(60" RCP SADDLE)



SECTION D–D
CONCRETE SADDLE REINFORCING NOT SHOWN FOR CLARITY

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SEAL

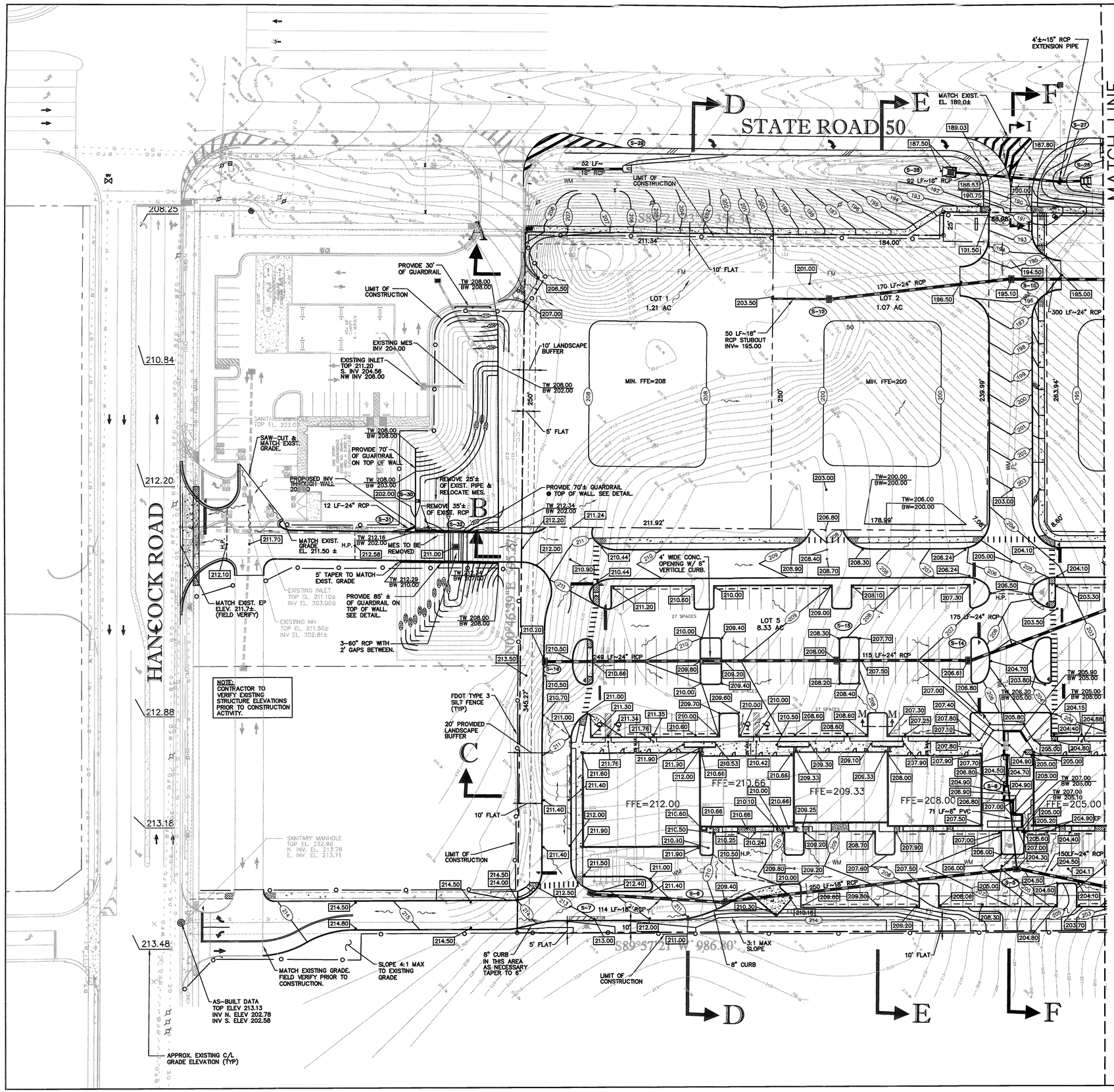
B.I. Patel 1/31/07

PROJECT
HANCOCK COMMONS
LAKE COUNTY, FLORIDA

TITLE
PIPE SADDLE DETAILS
PCI# 7009

DRAWN	SCALE	REV	SHEET
JRS 1-30-07	3/4" = 1'-0"	0	PC – 9

APPROVED



GENERAL NOTES

1. CONTRACTOR SHALL VERIFY ALL EXISTING GRADES ON SITE BEFORE BEGINNING WORK. THE OWNER'S REPRESENTATIVE SHALL BE NOTIFIED IMMEDIATELY OF ANY MAJOR DIFFERENCES BETWEEN CONTRACTOR'S DATA AND DRAWINGS.
2. THE CONTRACTOR SHALL PROTECT ALL EXISTING STORMWATER COLLECTION SYSTEMS FROM DAMAGE BY SEDIMENT OR OTHER CONSTRUCTION RELATED CAUSES.
3. SIZES, LOCATION AND INVERT ELEVATIONS OF EXISTING PIPE TO BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
4. EROSION CONTROL SHALL BE MAINTAINED WITHIN CONSTRUCTION AREAS BY QUICKLY STABILIZING DISTURBED AREAS TO PREVENT THE RELEASE OF SEDIMENT. THIS SHALL BE ACCOMPLISHED USING SOD, HAY BALES, AND OTHER MEANS ACCEPTABLE TO OWNER, ENGINEER AND REGULATORY AGENCIES.
5. ALL STORM DRAINAGE INLETS AND PIPES SHALL BE PROTECTED FROM SILT, SAND AND DEBRIS DURING CONSTRUCTION. ANY ACCUMULATION OF DEBRIS WITHIN THE STORM DRAINAGE PIPE SYSTEM SHALL BE REMOVED.
6. SILT FENCE SHALL BE IN-PLACE AS SHOWN PRIOR TO CONSTRUCTION. PLEASE SEE DETAIL SHEETS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION ON EROSION CONTROL
7. EXCESS EXCAVATED UNSUITABLE MATERIAL SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR.
8. DEWATERING, IF REQUIRED, DURING CONSTRUCTION SHALL BE IMPLEMENTED IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS.
9. ALL DISTURBED AREAS TO BE SODDED EXCEPT AS SHOWN ON PLAN. ALL SOD IN R/W TO BE ARGENTINE BAHIA.
10. GRADING SHOWN ON THESE PLANS IS PROVIDED TO THE CONTRACTOR TO EXPRESS THE GENERAL GRADING INTENT OF THE PROJECT. THE CONTRACTOR SHALL BE EXPECTED TO GRADE THE ENTIRE SITE TO PROVIDE POSITIVE DRAINAGE IN ALL AREAS THROUGHOUT THE SITE. SMOOTH TRANSITIONS SHALL BE PROVIDED BETWEEN CONTOURS OR SPOT ELEVATIONS AS SHOWN ON THE PLANS. ALL SLOPES SHALL BE STABILIZED IMMEDIATELY AFTER FINAL GRADING HAS BEEN COMPLETED. CONTRACTOR SHALL NOTIFY OWNER AND ENGINEER PRIOR TO DEMOBILIZATION OF GRADING EQUIPMENT TO DETERMINE THAT THE GRADING INTENT HAS BEEN ACHIEVED.
11. CONTOURS ON PARKING AREAS ARE SHOWN TO DEMONSTRATE INTENT ONLY. THE PARKING FACILITIES TO BE CONSTRUCTED USING SPOT ELEVATIONS SHOWN.
12. CONTRACTOR TO COORDINATE WITH ARCH. PLANS FOR ROOF DRAIN CONNECTION LOCATION.
13. CLEAN DIRT FROM ROADWAYS DAILY.
14. EMPLOY SAFETY AND ROADWAY ENTRY AND EXIT PLANS ON A DAILY/WEEKLY BASIS.
15. COORDINATE ALL UTILITY CROSSINGS AND ADDRESS CONFLICTS IN ADVANCE OF BEGINNING WORK IN A GIVEN AREA(S).

STORM SEWER SCHEDULE

STRUCTURE TO HAVE TRAFFIC BEARING GRATE

S-1	TYPE "C" INLET TOP ELEV. 171.00 SLOT ELEV. N & S 169.00 INV. 167.50 BOTTOM ELEV. 165.50	S-12	TYPE "C" INLET TOP ELEV. 199.00 INV. 189.50	S-23	TYPE "B" INLET DITCH BOTTOM TOP ELEV. 163.00 INV. 158.50
S-2	TYPE "C" INLET TOP ELEV. 199.00 INV. 191.00	S-13	TYPE "C" INLET TOP ELEV. 200.50 INV. 191.50	S-24	MES INV. 159.00
S-3	TYPE "C" INLET TOP ELEV. 198.20 INV. 192.00	S-14	TYPE "C" INLET TOP ELEV. 206.61 INV. 197.50	S-25	EXIST. MES TO BE REMOVED. REPLACE WITH MANHOLE TOP ELEV. MATCH PVMT. 163.0± INV. 159.28± (MATCH EXIST. PIPE)
S-4	TYPE "C" INLET TOP ELEV. 200.00 INV. 193.60	S-15	TYPE "C" INLET TOP ELEV. 208.00 INV. 199.00	S-26	5'X8' CONCRETE FLUME W/ DISSIPATOR INV. 182.00 (MATCH EXISTING)
S-5	TYPE "C" INLET TOP ELEV. 204.30 INV. 197.80	S-16	TYPE "C" INLET TOP ELEV. 210.20 INV. 201.00	S-27	MANHOLE TOP ELEV. 185.50 INV. 182.12± (MATCH EXIST. PIPE)
S-6	TYPE "C" INLET TOP ELEV. 209.90 INV. 200.78	S-17	TYPE "C" INLET TOP ELEV. 187.75 INV. 182.00	S-28	TYPE "B" DITCH BOTTOM INLET TOP ELEV. 187.50 INV. 183.00
S-7	TYPE "C" INLET TOP ELEV. 212.40 INV. 204.90	S-18	TYPE "C" INLET TOP ELEV. 195.10 INV. 188.60	S-29	MES INV. 200.00
S-8	YARD DRAIN TOP ELEV. 204.50 INV. 198.50	S-19	TYPE "C" INLET TOP ELEV. 201.00 INV. 194.50	S-30	PROPOSED MES INV. 202.00
S-9	TYPE "C" INLET TOP ELEV. 171.00 SLOT ELEV. N & S 169.00 INV. 167.50 BOTTOM ELEV. 165.50	S-20	TYPE "C" INLET TOP ELEV. 179.76 INV. 172.00	S-31	PROPOSED CURB INLET TYPE J BOTTOM W/ TYPE 5 TOP TOP EL. 212.24 INV. MATCH EXIST. PIPE INV. 202.16±
S-10	TYPE "C" INLET TOP ELEV. 185.60 INV. 171.00	S-21	OUTFALL STRUCTURE TYPE "C" INLET TOP ELEV. 178.50 INV. 172.55	S-32	TYPE "D" INLET TOP 211.00 INV. 200.00
S-11	TYPE "C" INLET TOP ELEV. 195.70 INV. 180.00	S-22	5'X8' CONCRETE FLUME W/ DISSIPATOR INV. 157.50 (MATCH EXISTING)		

LEGEND

o—o—SILT FENCE & LIMIT OF CONSTRUCTION	
134.00	PROPOSED SPOT ELEVATION AT EP AND HARDSCAPES UNLESS STATED OTHERWISE
S-1	STORM STRUCTURE IDENTIFICATION
92.50 +	EXISTING SPOT ELEV.
—165—	PROPOSED CONTOUR ELEVATION
~~	STORMWATER SURFACE FLOW
C.O.	CLEAN OUT
RDC	ROOF DRAIN CONNECTION

FOR REVIEW ONLY

CERT. OF AUTHORIZATION # 7350

07971-2

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SCOTT M. GENTRY, P.E.
FLORIDA REGISTRATION 44677
NOT VALID FOR CONSTRUCTION UNLESS SIGNED IN THIS BLOCK

KELLY, COLLINS & GENTRY, INC.
KCG
1700 NORTH ORANGE AVENUE, SUITE 400
ORLANDO, FLORIDA 32804
(407) 898-7868 FAX (407) 898-1468

6		
5		
4		
3		
2		
1	DATE	REVISION

PREPARED FOR: TRYCON ASSOCIATES

HANCOCK COMMONS
CLERMONT, FLORIDA

PAVING, GRADING & DRAINAGE PLAN

DRAWN: JRB
DESIGN: CAG
CHECKED: SMG
JOB NO.: 432.000
DATE: 11/06/06

SHEET C-4

M:\11civil\Trycon\South Hancock\Const\rev_11_06_06\Vlan_PGD2.dwg, 01/16/2007 1:40:43 PM

MATCH LINE

S89°21'23"E 628.51'

S89°57'21"W 986.80'

S00°35'58"W 603.42'

MATCH EXISTING PAVEMENT

MATCH EXISTING PAVEMENT EL. 164.5±

SAW-CUT AND MATCH EXISTING PAVEMENT

SEE INSET A FOR CONTINUATION

36LF~18" RCP

2' SODDED SHOULDER

CONCRETE SLOPE

104 LF 24" RCP

10' FLAT

10' SLOPED 3:1 MAX

252.68'

239.36'

20' LANDSCAPE BUFFER

LIMIT OF CONSTRUCTION

END WALL TW=189.00 BW=178.00

PRPOSED. RETAINING WALL

TW=177.00 BW=171.00

TW=180.00 BW=174.00

7.5' FLAT

TW=174.00 BW=169.00

PROVIDED 15' LANDSCAPE BUFFER

15.57'

GRADE SLOPE @ 3:1 MAX

PROVIDED 12' LANDSCAPE BUFFER

6' FLAT

10' LANDSCAPE BUFFER

LIMIT OF CONSTRUCTION

2' WIDE 12" DEEP RUBBLE STRIP APPROX. 4" IN SIZE (TYP)

12.5' SETBACK LINE

300 LF~24" RCP

LOT 3 1.57 AC

LOT 4 1.45 AC

LOT 5 8.33 AC

PROPOSED RETAINING WALL

TW=191.00 BW=191.00

TW=188.00 BW=182.00

TW=180.00 BW=180.00

TW=180.00 BW=174.00

TW=182.00 BW=180.00

TW=182.00 BW=178.00

MIN. FFE=195

MIN. FFE=182

240 LF~24" RCP

222.64'

270'

END WALL TW=182.00 BW=182.00

TW=194.00 BW=188.00

TW=194.00 BW=194.00

TW=188.00 BW=182.00

40 LF~18" RCP STUBOUT INV. 172.00

END WALL TW=184.00 BW=182.00

54.57'

148 LF~36" RCP 207.42'

132 LF~24" RCP

50 LF~30" RCP

118 LF~30" RCP

178 LF~24" RCP

80 LF~24" RCP

END WALL TW=182.00 BW=182.00

133 LF~36" RCP

TW=188.00 BW=182.00

TW=184.00 BW=182.00

TW=190.00 BW=184.00

TW=194.00 BW=188.00

TW=200.00 BW=194.00

RETENTION AREA

92 LF~36" RCP

END WALL TW=184.00 BW=184.00

END WALL TW=182.00 BW=184.00

65 LF~30" RCP

115 LF~24" RCP

150 LF~24" RCP

TW=197.00 BW=194.00

TW=199.00 BW=194.00

TW=199.00 BW=194.00

38 SPACES

H.P.

10:1

4:1

4:1

10:1

FFE=203.67

FFE=202.00

PROPOSED RETAINING WALL

10' LANDSCAPE BUFFER

5' SLOPED 3:1 MAX

5' FLAT

LIMIT OF CONSTRUCTION

TW=194.00 BW=188.00

TW=199.00 BW=194.00

S-1 S-2 S-3 S-4 S-5 S-6 S-7 S-8 S-9 S-10 S-11 S-12 S-13 S-17 S-20 S-21 S-22 S-23 S-24 S-25

A B C G H K L

MATCH EXISTING PAVEMENT

EXISTING INLET TO BE REMOVED & RELOCATED. TOP TO BE ADJUSTED TO MATCH EXISTING GRADE. SAW-CUT PIPE AS NEEDED & REMOVED UNUSED PIPE PORTION & DISPOSE.
TOP= 141.75±
INV= 138.6± (MATCH EXIST. PIPE)

N

GRAPHIC SCALE

80 40 20 0 40 120

(IN FEET)
1 inch = 40 ft.

INSET A
SCALE 1" = 30'

EXISTING TRAVEL LANE — 9.5' — 30' — R/W — S.R. 50 FDOT R/W HANCOCK COMMONS

SAW CUT & MATCH EXISTING PAVEMENT

LP 188.53

PVI 187.10

7% 7.5% 2% 8.3%

5/8" FC-5 W/GROUND TIRE RUBBER

3.5" OF TRAFFIC LEVEL C SUPER PAVE

10" LIMEROCK, 2 LIFTS COMPACTED TO 98% MAX. DENSITY

12" STABILIZED SUB GRADE (LBR 40)

1 1/2" MIN. (AS REQ'D BY CODE) TYPE III ASPHALTIC CONCRETE SURFACE COURSE (INSTALLED IN 2 LIFTS)

6" LIME ROCK BASE MATERIAL COMPACTED TO 98% MODIFIED PROCTOR (AASHTO T-180 OR ASTM D-1557)

12" STABILIZED SUB GRADE COMPACTED TO 95% MODIFIED PROCTOR MAX. DRY DENSITY (AASHTO-T180) (LBR 40)

SECTION I-I
SCALE: 1"= 20' HORZ. 1"=10' VERT.

EXISTING TRAVEL LANE — R/W — S.R. 50 FDOT R/W HANCOCK COMMONS

SAW CUT & MATCH EXISTING PAVEMENT

1% 6% 2% 7.5%

5/8" FC-5 W/GROUND TIRE RUBBER

3.5" OF TRAFFIC LEVEL C SUPER PAVE

10" LIMEROCK, 2 LIFTS COMPACTED TO 98% MAX. DENSITY

12" STABILIZED SUB GRADE (LBR 40)

1 1/2" MIN. (AS REQ'D BY CODE) TYPE III ASPHALTIC CONCRETE SURFACE COURSE (INSTALLED IN 2 LIFTS)

6" LIME ROCK BASE MATERIAL COMPACTED TO 98% MODIFIED PROCTOR (AASHTO T-180 OR ASTM D-1557)

12" STABILIZED SUB GRADE COMPACTED TO 95% MODIFIED PROCTOR MAX. DRY DENSITY (AASHTO-T180) (LBR 40)

SECTION J-J
SCALE: 1"= 20' HORZ. 1"=10' VERT.

5/8" FC-5 W/GROUND TIRE RUBBER

3.5" OF TRAFFIC LEVEL C SUPER PAVE

12" SOIL CEMENT BASE(300 PSI)

12" STABILIZED SUB GRADE (LBR 40)

R/W — S.R. 50 FDOT R/W HANCOCK COMMONS

EXISTING CONCRETE LOW FLOW CHANNEL

EXISTING TRAVEL LANE — 12% — 2%

SAW CUT & MATCH EXISTING PAVEMENT

5' CONCRETE SIDEWALK

4' PAVED SHOULDER

3/4" FC-5 W/GROUND TIRE RUBBER

1 1/2" OF TRAFFIC LEVEL C SUPER PAVE

5" LIMEROCK BASE (LBR 100)

12" STABILIZED SUB GRADE (LBR 40)

SECTION K-K
SCALE: 1"= 20' HORZ. 1"=10' VERT.

EXISTING TRAVEL LANE — SAW CUT & MATCH EXISTING PAVEMENT 12' — EXISTING TRAVEL WAY

5/8" FC-5 W/GROUND TIRE RUBBER

3.5" OF TRAFFIC LEVEL C SUPER PAVE

10" LIMEROCK, 2 LIFTS COMPACTED TO 98% MAX. DENSITY

12" STABILIZED SUB GRADE (LBR 40)

EXISTING GRADE

MATCH EXISTING GRADE

PROPOSED GRADE

2' PAVED SHOULDER

3/4" FC-5 W/GROUND TIRE RUBBER

1 1/2" OF TRAFFIC LEVEL C SUPER PAVE

5" LIMEROCK BASE (LBR 100)

12" STABILIZED SUB GRADE (LBR 40)

SECTION L-L
SCALE: 1"= 20' HORZ. 1"=10' VERT.

PL — 30 — PL — 7-11

24

TYPE D CURB

GUARDRAIL TYP

PROPOSED ACCESS DRIVE

211.74

1' RETAINING WALL

60" RCP 60" RCP

200.00

TYPE D ALTERNATE BOTTOM (60") W/ 4" DIA TOP OPENING W/ 2'-0" X 3'-1" OPENING & TYPE C TRAFFIC BEARING TOP.

NOTE: STRUCTURAL DESIGN BY OTHERS.

POND ACCESS CROSSING DETAIL
REFER TO FDOT INDEX 250 FOR HEADWALLS
REFER TO FDOT INDEX 232 FOR STRUCTURE

07971-2
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ALTAMONTE SVC. CTR.

FOR REVIEW ONLY

CERT. OF AUTHORIZATION # 7350

SCOTT M. GENTRY, P.E.
FLORIDA REGISTRATION 44677
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KELLY, COLLINS & GENTRY, INC.
KCG
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ORLANDO, FLORIDA 32804
(407) 898-7858 FAX (407) 898-1488

6							
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1							
						REVISION	DATE

PREPARED FOR: TRYCON ASSOCIATES

HANCOCK COMMONS
CLERMONT, FLORIDA

PAVING, GRADING & DRAINAGE PLAN

DRAWN: JRB
DESIGN: CAG
CHECKED: SMG
JOB NO.: 432.000
DATE: 11/06/06

SHEET C-5

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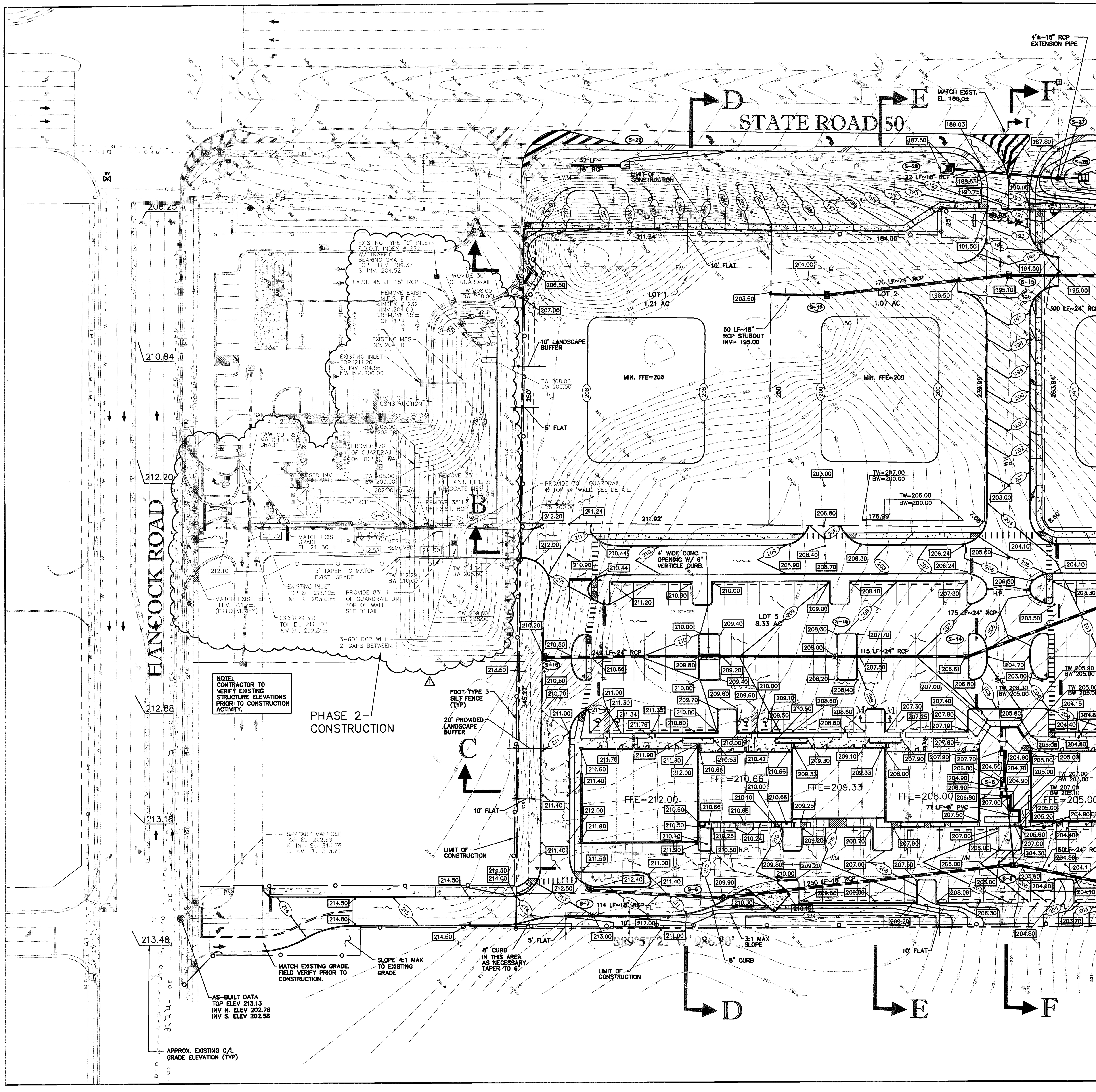

GRAPHIC SCALE

80 40 20 0 40 120

(IN FEET)
1 inch = 40 ft.

N

GENERAL NOTES

1. CONTRACTOR SHALL VERIFY ALL EXISTING GRADES ON SITE BEFORE BEGINNING WORK. THE OWNER'S REPRESENTATIVE SHALL BE NOTIFIED IMMEDIATELY OF ANY MAJOR DIFFERENCES BETWEEN CONTRACTOR'S DATA AND DRAWINGS.
2. THE CONTRACTOR SHALL PROTECT ALL EXISTING STORMWATER COLLECTION SYSTEMS FROM DAMAGE BY SEDIMENT OR OTHER CONSTRUCTION RELATED CAUSES.
3. SIZES, LOCATION AND INVERT ELEVATIONS OF EXISTING PIPE TO BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
4. EROSION CONTROL SHALL BE MAINTAINED WITHIN CONSTRUCTION AREAS BY QUICKLY STABILIZING DISTURBED AREAS TO PREVENT THE RELEASE OF SEDIMENT. THIS SHALL BE ACCOMPLISHED USING SOD, HAY BALES, AND OTHER MEANS ACCEPTABLE TO OWNER, ENGINEER AND REGULATORY AGENCIES.
5. ALL STORM DRAINAGE INLETS AND PIPES SHALL BE PROTECTED FROM SILT, SAND AND DEBRIS DURING CONSTRUCTION. ANY ACCUMULATION OF DEBRIS WITHIN THE STORM DRAINAGE PIPE SYSTEM SHALL BE REMOVED.
6. SILT FENCE SHALL BE IN-PLACE AS SHOWN PRIOR TO CONSTRUCTION. PLEASE SEE DETAIL SHEETS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION ON EROSION CONTROL
7. EXCESS EXCAVATED UNSUITABLE MATERIAL SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR.
8. DEWATERING, IF REQUIRED, DURING CONSTRUCTION SHALL BE IMPLEMENTED IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS.
9. ALL DISTURBED AREAS TO BE SODDED EXCEPT AS SHOWN ON PLAN. ALL SOD IN R/W TO BE ARGENTINE BAHIA.
10. GRADING SHOWN ON THESE PLANS IS PROVIDED TO THE CONTRACTOR TO EXPRESS THE GENERAL GRADING INTENT OF THE PROJECT. THE CONTRACTOR SHALL BE EXPECTED TO GRADE THE ENTIRE SITE TO PROVIDE POSITIVE DRAINAGE IN ALL AREAS THROUGHOUT THE SITE. SMOOTH TRANSITIONS SHALL BE PROVIDED BETWEEN CONTOURS OR SPOT ELEVATIONS AS SHOWN ON THE PLANS. ALL SLOPES SHALL BE STABILIZED IMMEDIATELY AFTER FINAL GRADING HAS BEEN COMPLETED. CONTRACTOR SHALL NOTIFY OWNER AND ENGINEER PRIOR TO DEMOBILIZATION OF GRADING EQUIPMENT TO DETERMINE THAT THE GRADING INTENT HAS BEEN ACHIEVED.
11. CONTOURS ON PARKING AREAS ARE SHOWN TO DEMONSTRATE INTENT ONLY. THE PARKING FACILITIES TO BE CONSTRUCTED USING SPOT ELEVATIONS SHOWN.
12. CONTRACTOR TO COORDINATE WITH ARCH. PLANS FOR ROOF DRAIN CONNECTION LOCATION.
13. CLEAN DIRT FROM ROADWAYS DAILY.
14. EMPLOY SAFETY AND ROADWAY ENTRY AND EXIT PLANS ON A DAILY/WEEKLY BASIS.
15. COORDINATE ALL UTILITY CROSSINGS AND ADDRESS CONFLICTS IN ADVANCE OF BEGINNING WORK IN A GIVEN AREA(S).

STORM SEWER SCHEDULE

STRUCTURE TO HAVE TRAFFIC BEARING GRATE

S-1	TYPE "C" INLET TOP ELEV. 171.00 SLOT ELEV. N & S 169.00 INV. 167.50 BOTTOM ELEV. 165.50
S-2	TYPE "C" INLET TOP ELEV. 199.00 INV. 191.00
S-3	TYPE "C" INLET TOP ELEV. 198.20 INV. 192.00
S-4	TYPE "C" INLET TOP ELEV. 200.00 INV. 193.60
S-5	TYPE "C" INLET TOP ELEV. 204.30 INV. 197.80
S-6	TYPE "C" INLET TOP ELEV. 209.90 INV. 200.78
S-7	TYPE "C" INLET TOP ELEV. 212.40 INV. 204.90
S-8	YARD DRAIN TOP ELEV. 204.50 INV. 198.50
S-9	TYPE "C" INLET TOP ELEV. 171.00 SLOT ELEV. N & S 169.00 INV. 167.50 BOTTOM ELEV. 165.50
S-10	TYPE "C" INLET TOP ELEV. 185.60 INV. 171.00
S-11	TYPE "C" INLET TOP ELEV. 195.70 INV. 180.00
S-12	TYPE "C" INLET TOP ELEV. 199.00 INV. 189.50
S-13	TYPE "C" INLET TOP ELEV. 200.50 INV. 191.50
S-14	TYPE "C" INLET TOP ELEV. 206.61 INV. 197.50
S-15	TYPE "C" INLET TOP ELEV. 208.00 INV. 199.00
S-16	TYPE "C" INLET TOP ELEV. 210.20 INV. 201.00
S-17	TYPE "C" INLET TOP ELEV. 187.75 INV. 182.00
S-18	TYPE "C" INLET TOP ELEV. 195.10 INV. 188.60
S-19	TYPE "C" INLET TOP ELEV. 201.00 INV. 194.50
S-20	TYPE "C" INLET TOP ELEV. 179.76 INV. 172.00
S-21	OUTFALL STRUCTURE TYPE "C" INLET TOP ELEV. 178.50 INV. 172.55
S-22	5'X8' CONCRETE FLUME W/ DISSIPATOR (MATCH EXISTING) INV. 157.50
S-23	TYPE "B" INLET DITCH BOTTOM TOP ELEV. 163.00 INV. 158.50
S-24	MES INV. 159.00
S-25	EXIST. MES TO BE REMOVED. REPLACE WITH MANHOLE TOP ELEV. MATCH PVMT. 163.0± INV. 159.28± (MATCH EXIST. PIPE)
S-26	5'X8' CONCRETE FLUME W/ DISSIPATOR INV. 182.00 (MATCH EXISTING)
S-27	MANHOLE TOP ELEV. 185.50 INV. 182.12± (MATCH EXIST. PIPE)
S-28	TYPE "B" DITCH BOTTOM INLET TOP ELEV. 187.50 INV. 183.00
S-29	MES INV. 200.00
S-30	PROPOSED MES INV. 202.00
S-31	PROPOSED CURB INLET TYPE J BOTTOM W/ TYPE 5 TOP TOP EL. 212.24 INV. MATCH EXIST. PIPE INV. 202.16±
S-32	TYPE "D" INLET TOP 211.00 INV. 200.00
S-33	PROPOSED TYPE "E" INLET F.D.O.T. INDEX # 232 TOP EL. 209.95 INV. ELEV 204.37± (MATCH EXIST. PIPE)

LEGEND

o—o	SILT FENCE & LIMIT OF CONSTRUCTION
134.00	PROPOSED SPOT ELEVATION AT EP AND HARDSCAPES UNLESS STATED OTHERWISE
S-1	STORM STRUCTURE IDENTIFICATION
92.50	EXISTING SPOT ELEV.
165	PROPOSED CONTOUR ELEVATION
~→	STORMWATER SURFACE FLOW
C.O.	CLEAN OUT
RDC	ROOF DRAIN CONNECTION

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FOR REVIEW ONLY

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ORLANDO, FLORIDA 32804
(407) 898-7858 FAX (407) 898-1488

	DATE	REVISION
6		
5		
4		
3		
2		
1	4/17/07	SHOW PHASE 2 CONSTRUCTION

PREPARED FOR:
TRYCON ASSOCIATES

HANCOCK COMMONS
CLERMONT, FLORIDA

PAVING, GRADING & DRAINAGE PLAN

DRAWN: JRB
DESIGN: CAG
CHECKED: SMG
JOB NO.: 432.000
DATE: 11/06/06

SHEET
C-4

STATE ROAD 50

HANCOCK ROAD

208.25

210.84

212.20

EXISTING TYPE "C" INLET
F.D.O.T. INDEX # 232
W/ TRAFFIC
BEARING GRATE
TOP ELEV. 209.37
S INV 204.52

EXIST. 45 LF-15" RCP

REMOVE
EXISTING M.E.S.
F.D.O.T.
INDEX # 272
INV 204.00
REMOVE 15'± OF PIPE

EXIST. 37 LF
18" RCP

EXISTING INLET
TOP 211.20
S INV 204.56
NW INV 206.00

LIMIT OF CONSTRUCTION

EXISTING
7-11

SAW-CUT &
MATCH EXIST.
GRADE.

PROVIDE 30'
OF GUARDRAIL

TW 208.00
BW 208.00

206.50

207.00

S-33

AB-2

10' LANDSCAPE
BUFFER

TW 208.00
BW 200.00

250'

5' FLAT

EXIST. MES
INV 204.00

TW 208.00
BW 208.00

REMOVE 25'±
OF EXIST. PIPE &
RELOCATE MES.

POND MODIFICATION AREA
0.47 ACRES

PROVIDE 70'
OF GUARDRAIL
ON TOP OF WALL

TW 208.00
BW 203.00

AB-1

PROPOSED INV
THROUGH WALL
202.00

S-30

PROVIDE 70'± GUARDRAIL
@ TOP OF WALL. SEE DETAIL.

TW 212.34
BW 200.00

212.20

12 LF-24" RCP

EXIST. 163 LF-24" RCP

S-31

MES TO BE
REMOVED

S-32

211.24

211.70

MATCH EXIST.
GRADE
EL. 211.50 ±

H.P.

TW 212.16
BW 202.00

212.58

REMOVE 35'±
OF EXIST. RCP

211.00

212.00

210.90

212.10

5' TAPER TO MATCH
EXIST. GRADE

TW 212.29
BW 210.00

EXISTING INLET
TOP EL. 211.10±
INV EL. 203.00±

MATCH EXIST. EP
ELEV. 211.7±.
(FIELD VERIFY)

EXISTING MH
TOP EL. 211.50±
INV EL. 202.81±

PROVIDE 85' ±
OF GUARDRAIL ON
TOP OF WALL.
SEE DETAIL.

3-60" RCP WITH
2' GAPS BETWEEN.

210.20

210.50

249 LF~2

213.50

S-16

210.50

N00°46'39"E 552.27'

NOTE:
CONTRACTOR TO
VERIFY EXISTING
STRUCTURE ELEVATIONS
PRIOR TO CONSTRUCTION
ACTIVITY.

SANITARY MANHOLE
TOP EL. 222.07

52 LF~
18" RCP

WM

OHU

GRAPHIC SCALE

40 20 10 0 20 40

(IN FEET)
1 inch = 20 ft.

LEGEND

o—o	SILT FENCE & LIMIT OF CONSTRUCTION
34.00	PROPOSED SPOT ELEVATION AT EP AND HARDSCAPES UNLESS STATED OTHERWISE
S-1	STORM STRUCTURE IDENTIFICATION
92.50	EXISTING SPOT ELEV.
165	PROPOSED CONTOUR ELEVATION
~	STORMWATER SURFACE FLOW
C.O.	CLEAN OUT
RDC	ROOF DRAIN CONNECTION
◆	BORING LOCATION

STORM SEWER SCHEDULE

STRUCTURE TO HAVE TRAFFIC BEARING GRATE

S-30 PROPOSED MES
F.D.O.T. INDEX # 272
INV. ELEV.= 202.00

S-31 PROPOSED CURB
INLET TYPE J BOTTOM
W/ TYPE 5 TOP
TOP ELEV.= 212.24
INV. ELEV. MATCH EXIST.
PIPE INV. ELEV.= 202.16±

S-32 PROPOSED
TYPE "D" INLET
F.D.O.T. INDEX # 232
TOP ELEV.= 211.00
INV. ELEV.= 200.00

S-33 PROPOSED
TYPE "E" INLET
F.D.O.T. INDEX # 232
TOP ELEV.= 209.95
INV. ELEV. = 204.37±
(MATCH EXIST. PIPE)

FOR REVIEW ONLY

CERT. OF AUTHORIZATION # 7356

SCOTT M. GENTRY, P.E.
FLORIDA REGISTRATION 44677
NOT VALID FOR CONSTRUCTION
UNLESS SIGNED IN THIS BLOCK

67971-2
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PDS
ALTAMONTE SVC. CTR.

KELLY, COLLINS & GENTRY, INC.
KCG
1700 NORTH ORANGE AVENUE, SUITE 400
ORLANDO, FLORIDA 32804
(407) 898-7305 FAX (407) 898-1488

6			
5			
4			
3			
2	4/17/07	SHOW PHASE 2 CONSTRUCTION	
1	4/17/07	REVISION	
	DATE		

PREPARED FOR:
TRYCON ASSOCIATES

HANCOCK COMMONS
CLERMONT, FLORIDA

PAVING, GRADING & DRAINAGE PLAN

DRAWN: JRB
DESIGN: CAG
CHECKED: SMG
JOB NO.: 432.000
DATE: 4/24/07

SHEET
C-4B

W:\11GA00\TRYCON-SOUTH_HANCOCK COMMONS\REV_4_17_07\VALN_POND.MOD.DWG, 05/02/2007 11:03:43 AM

MATCH LINE

S89°21'29"E 628.51'

S89°57'21"W 986.80'

S00°35'58"W 603.42'

SAW-CUT AND MATCH EXISTING PAVEMENT

SEE INSET A FOR CONTINUATION

MATCH EXISTING PAVEMENT

58 LF~18" RCP

2' SODDED SHOULDER

MATCH EXISTING PAVEMENT EL 162.85±

164.5± MATCH EXIST.

CONCRETE SLOPE

104 LF 24" RCP

10' FLAT

10' SLOPED 3:1 MAX

252.68'

233.36'

20' LANDSCAPE BUFFER

LIMIT OF CONSTRUCTION

END WALL TW=180.00 BW=178.00

PRPOSED RETAINING WALL

TW=180.00 BW=174.00

7.5' FLAT

TW=174.00 BW=169.00

PROVIDED 15' LANDSCAPE BUFFER

TW=173.00 BW=172.50

TW=175.50 BW=173.00

178.50

TW=178.00 BW=175.00

GRADE SLOPE @ 3:1 MAX

PROVIDED 12' LANDSCAPE BUFFER

6' FLAT

TW=180.20 BW=179.00

300 LF~24" RCP

LOT 3 1.57 AC

LOT 4 1.45 AC

LOT 5 8.33 AC

MIN. FFE=195

MIN. FFE=182

FFE=203.67

FFE=202.00

PROPOSED RETAINING WALL

TW=180.00 BW=180.00

TW=180.00 BW=174.00

TW=182.00 BW=180.00

TW=182.00 BW=178.00

TW=191.00 BW=191.00

TW=188.00 BW=182.00

TW=194.00 BW=188.00

TW=194.00 BW=194.00

240 LF~24" RCP

222.64'

270

END WALL TW=182.00 BW=182.00

40 LF~18" RCP STUBOUT INV. 172.00

END WALL TW=184.00 BW=182.00

132 LF~24" RCP

54.57'

148 LF~36" RCP 207.42'

50 LF~30" RCP

118 LF~30" RCP

175 LF~24" RCP

150 LF~24" RCP

115 LF~24" RCP

65 LF~30" RCP

92 LF~36" RCP

80 LF~24" RCP

133 LF~36" RCP

TW=177.00 BW=171.00

TW=188.00 BW=182.00

TW=190.00 BW=184.00

TW=184.00 BW=182.00

TW=194.00 BW=188.00

TW=199.00 BW=194.00

TW=200.00 BW=194.00

TW=197.00 BW=194.00

12.5' SETBACK LINE

2' WIDE 12" DEEP RUBBLE STRIP APPROX. 4" IN SIZE (TYP)

10' LANDSCAPE BUFFER

5' SLOPED 3:1 MAX

5' FLAT

4:1

10:1

RETENTION AREA

PROPOSED RETAINING WALL

LIMIT OF CONSTRUCTION

A

B

C

G

H

J

K

L

GRAPHIC SCALE

(IN FEET)
1 inch = 40 ft.

INSET A
SCALE 1" = 30'

9.5' 30' R/W

EXISTING TRAVEL LANE

S.R. 50 FDOT R/W HANCOCK COMMONS

SAW CUT & MATCH EXISTING PAVEMENT

LP 188.53

PVI 187.10

7% 7.5% 2% 8.3%

5/8" FC-5 W/GROUND TIRE RUBBER

3.5" OF TRAFFIC LEVEL C SUPER PAVE

10" LIMEROCK, 2 LIFTS COMPACTED TO 98% MAX. DENSITY

12" STABILIZED SUB GRADE (LBR 40)

1 1/2" MIN. (AS REQ'D BY CODE) TYPE III ASPHALTIC CONCRETE SURFACE COURSE (INSTALLED IN 2 LIFTS)

6" LIME ROCK BASE MATERIAL COMPACTED TO 98% MODIFIED PROCTOR (AASHTO T-180 OR ASTM D-1557)

12" STABILIZED SUB GRADE COMPACTED TO 95% MODIFIED PROCTOR MAX. DRY DENSITY (AASHTO-T180) (LBR 40)

SECTION I-I
SCALE: 1"= 20' HORZ.
1"=10' VERT.

R/W

EXISTING TRAVEL LANE

S.R. 50 FDOT R/W HANCOCK COMMONS

SAW CUT & MATCH EXISTING PAVEMENT

1% 8% 2% 7.5%

5/8" FC-5 W/GROUND TIRE RUBBER

3.5" OF TRAFFIC LEVEL C SUPER PAVE

10" LIMEROCK, 2 LIFTS COMPACTED TO 98% MAX. DENSITY

12" STABILIZED SUB GRADE (LBR 40)

1 1/2" MIN. (AS REQ'D BY CODE) TYPE III ASPHALTIC CONCRETE SURFACE COURSE (INSTALLED IN 2 LIFTS)

6" LIME ROCK BASE MATERIAL COMPACTED TO 98% MODIFIED PROCTOR (AASHTO T-180 OR ASTM D-1557)

12" STABILIZED SUB GRADE COMPACTED TO 95% MODIFIED PROCTOR MAX. DRY DENSITY (AASHTO-T180) (LBR 40)

SECTION J-J
SCALE: 1"= 20' HORZ.
1"=10' VERT.

5/8" FC-5 W/GROUND TIRE RUBBER

3.5" OF TRAFFIC LEVEL C SUPER PAVE

12" SOIL CEMENT BASE(300 PSI)

12" STABILIZED SUB GRADE (LBR 40)

12' STRIPING 12' TURN LANE 2%

2' PAVED SHOULDER

EXISTING TRAVEL LANE

PROPOSED SWALE

EXIST. ROADWAY

SAW CUT & MATCH EXISTING PAVEMENT

5:1 PLAN
4:1 MAX

3/4" FC-5 W/GROUND TIRE RUBBER

1 1/2" OF TRAFFIC LEVEL C SUPER PAVE

5" LIMEROCK BASE (LBR 100)

12" STABILIZED SUB GRADE (LBR 40)

SECTION K-K
SCALE: 1"= 20' HORZ.
1"=10' VERT.

EXISTING TRAVEL LANE

SAW CUT & MATCH EXISTING PAVEMENT 12'

EXISTING TRAVEL WAY

EXISTING GRADE

MATCH EXISTING GRADE

PROPOSED GRADE

5/8" FC-5 W/GROUND TIRE RUBBER

3.5" OF TRAFFIC LEVEL C SUPER PAVE

10" LIMEROCK, 2 LIFTS COMPACTED TO 98% MAX. DENSITY

12" STABILIZED SUB GRADE (LBR 40)

2' PAVED SHOULDER

3/4" FC-5 W/GROUND TIRE RUBBER

1 1/2" OF TRAFFIC LEVEL C SUPER PAVE

5" LIMEROCK BASE (LBR 100)

12" STABILIZED SUB GRADE (LBR 40)

SECTION L-L
SCALE: 1"= 20' HORZ.
1"=10' VERT.

PL 30 PL

24

7-11

TYPE D CURB

GUARDRAIL TYP

PROPOSED ACCESS DRIVE

211.74

1' RETAINING WALL

60" RCP 60" RCP

200.00 202.00

TYPE D ALTERNATE BOTTOM (60") W/ 4" DIA TOP OPENING W/ 2'-0" X 3'-1" OPENING & TYPE C TRAFFIC BEARING TOP.

POND ACCESS CROSSING DETAIL (PHASE 2)

REFER TO FDOT INDEX 250 FOR HEADWALLS

REFER TO FDOT INDEX 232 FOR STRUCTURE

NOTE: STRUCTURAL DESIGN BY OTHERS.

07971-2
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ALTAMONTE SVC. CTR.
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CERT. OF AUTHORIZATION # 2656

SCOTT M. GENTRY, P.E.
FLORIDA REGISTRATION 44677
NOT VALID FOR CONSTRUCTION UNLESS SIGNED IN THIS BLOCK

6			
5			
4			
3			
2	4/17/07	REV DETAIL LABEL	
1	3/30/07	ADDED WALL ELEVATIONS	
	DATE	REVISION	

KCG
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ORLANDO, FLORIDA 32804
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PREPARED FOR:
TRYCON ASSOCIATES

HANCOCK COMMONS
CLERMONT, FLORIDA

PAVING, GRADING & DRAINAGE PLAN

DRAWN: JRB
DESIGN: CAG
CHECKED: SMG
JOB NO.: 432.000
DATE: 11/06/06

SHEET
C-5

V:\1 ICAD\01 TRYCON\SOUTH_HANCOCK\CONSTR\SV_A_17_07\PLAN_R003.DWG, 05/03/2007 11:01:01 AM