Box Misc-4968

#16

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# of drawings 22

104169-1

Oversized Drawings

1723

Attached is a re-scanned document because of notations and/or highlights

Site Plans

Issued for: **SJRWMD**

Date Issued: January 20, 2006

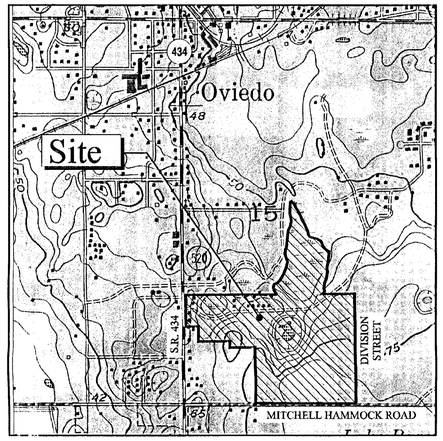
Latest Issue: January 20, 2006

Index

(2)

Oviedo On The Park

Oviedo, Florida



Site Location Map

Property Information

Owner:
Charles W. Evans, Jr.
Evans Groves, Inc.
P.O. Box 620460
Oviedo, Florida 32762
Phone: (407) 365-9435

Wiletha H. Williams
P.O. Box 1481
Norcross, Georgia 30091

Applicant:
Ken Kupp
BSP/Florida, LLC
250 Park Avenue, Suite 200
Winter Park, Florida 32789
Phone: (407) 647-3290
Fax: (407) 647-7865

Vanasse Hangen Brustlin, Inc.
Transportation
Land Development
Environmental Services

135 W. Central Blvd., Suite 800
Orlando, Florida 32801
407 839 4006 FAX 839 4008

CIVIL ENGINEER/ ENVIRONMENTAL/AGENT
Vanasse Hangen Brustlin, Inc.
Contact Person: Joesph F. Kolb, P.E.
135 W. Central Blvd., Suite 800
Orlando. Fl 32801
Phone: (407) 839-4006 Fax: (407) 839-4008

LANDSCAPE ARCHITECT/PLANNERS/AGENT
Dix-Lathrop and Associates, Inc.
Contact Person: Adrienne Downey-Jacks
150 West Jessup Avenue
Longwood, Florida
Phone: (407) 667-1777 Fax: (407) 667-1779

SURVEYOR
Land-Tech Surveying & Mapping Corp.
350 South Central Avenue
Oviedo, Florida 32765
Phone: (407) 365-1036 · Fax: (407) 365-1838

GEOTECHNICAL ENGINEERING
Nodarse & Associates, Inc.
1675 Lee Road
Winter Park, Florida 32744
Phone: (407) 740-6110 · Fax: (407) 740-6112

LEGAL COUNSEL OF APPLICANT
Shutts and Bown, LLP
Contact Person: Jennifer Tobin, ESQ
300 S. Orange Ave, Suite 1000
Orlando, Florida 32801
Phone: (407) 423-3200 Fax: (407) 849-7244

RECEIVED
MAR 07 2006
ADMINISTRATION

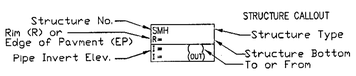
James L. Boyington, P.E.
MAR 03 2006
Florida PE #54590

VHB Project No. 60972.00
Oviedo, Florida
Issued for: SJRWMD

Legend

Exist.	Prop.	
		PROPERTY LINE
		PROJECT LIMIT LINE
		RIGHT-OF-WAY/PROPERTY LINE
		EASEMENT
		BUILDING SETBACK
	10+00	BASELINE
		CONSTRUCTION LAYOUT
		ZONING LINE
		TOWN LINE
		LIMIT OF DISTURBANCE
		WETLAND LINE WITH FLAG
		FLOODPLAIN
BLSF		BORDERING LAND SUBJECT TO FLOODING
BZ		WETLAND BUFFER ZONE
NDZ		NO DISTURB ZONE
200'RA		200' RIVERFRONT AREA
		GRAVEL ROAD
EOP		EDGE OF PAVEMENT
BB	BB	BITUMINOUS BERM
BC	BC	BITUMINOUS CURB
CC	CC	CONCRETE CURB
CG	CG	CURB AND GUTTER
CC	ECC	EXTRUDED CONCRETE CURB
CC	MCC	MONOLITHIC CONCRETE CURB
CC	PCC	PRECAST CONC. CURB
SGE	SGE	SLOPED GRAN. EDGING
VGC	VGC	VERT. GRAN. CURB
		LIMIT OF CURB TYPE
		SAWCUT
		BUILDING
EN		BUILDING ENTRANCE
LD		LOADING DOCK
		BOLLARD
D		DUMPSTER PAD
		SIGN
		DOUBLE SIGN
		STEEL GUARDRAIL
		WOOD GUARDRAIL
		PATH
		TREE LINE
		WIRE FENCE
		FENCE
		STOCKADE FENCE
		STONE WALL
		RETAINING WALL
		STREAM / POND / WATER COURSE
		DETENTION BASIN
		HAY BALES
		SILT FENCE
4	4	MINOR CONTOUR
20	20	MAJOR CONTOUR
(10)	(10)	PARKING COUNT
(C10)	(C10)	COMPACT PARKING STALLS
DYL	DYL	DOUBLE YELLOW LINE
SL	SL	STOP LINE
		CROSSWALK
		ACCESSIBLE CURB RAMP
		ACCESSIBLE PARKING
VAN	VAN	VAN-ACCESSIBLE PARKING

Exist.	Prop.	
		CONCRETE
		HEAVY DUTY PAVEMENT
		RIPRAP
		CONSTRUCTION ENTRANCE
27.35 TC×	27.35 TC×	TOP OF CURB ELEVATION
26.85 BC×	26.85 BC×	BOTTOM OF CURB ELEVATION
132.75×	132.75×	SPOT ELEVATION
45.0 TW× 38.5 BW×	45.0 TW× 38.5 BW×	TOP & BOTTOM OF WALL ELEVATION
		BORING LOCATION
		TEST PIT LOCATION
	MW	MONITORING WELL
UD	UD	UNDERDRAIN
12"D	12"D→	DRAIN
6"RD	6"RD→	ROOF DRAIN
12"S	12"S	SEWER
FM	FM	FORCE MAIN
OHW	OHW	OVERHEAD WIRE
6"W	6"W	WATER
4"FP	4"FP	FIRE PROTECTION
	2"DW	DOMESTIC WATER
3"G	G	GAS
E	E	ELECTRIC
STM	STM	STEAM
T	T	TELEPHONE
FA	FA	FIRE ALARM
CATV	CATV	CABLE TV
		CATCH BASIN
		DOUBLE CATCH BASIN
		GUTTER INLET
		DRAIN MANHOLE
TD		TRENCH DRAIN
		PLUG OR CAP
CO	CO	CLEANOUT
		FLARED END SECTION
		HEADWALL
S		SEWER MANHOLE
CS	CS	CURB STOP & BOX
WV	WV	WATER VALVE & BOX
TSV	TSV	TAPPING SLEEVE, VALVE & BOX
		SIAMESE CONNECTION
HYD	HYD	FIRE HYDRANT
WM	WM	WATER METER
PIV	PIV	POST INDICATOR VALVE
W	W	WATER WELL
GG	GG	GAS GATE
GM	GM	GAS METER
E	EMH	ELECTRIC MANHOLE
EM	EM	ELECTRIC METER
		LIGHT POLE
T	TMH	TELEPHONE MANHOLE
T	T	TRANSFORMER PAD
		UTILITY POLE
		GUY POLE
		GUY WIRE & ANCHOR
HH	HH	HAND HOLE
PB	PB	PULL BOX
Matchline		MATCHLINE



Abbreviations

General

ABAN	ABANDON
ACR	ACCESSIBLE CURB RAMP
ADJ	ADJUST
APPROX	APPROXIMATE
BIT	BITUMINOUS
BS	BOTTOM OF SLOPE
BWLL	BROKEN WHITE LANE LINE
CONC	CONCRETE
DYCL	DOUBLE YELLOW CENTER LINE
EL	ELEVATION
ELEV	ELEVATION
EXIST	EXISTING
FDN	FOUNDATION
FFE	FIRST FLOOR ELEVATION
GRAN	GRANITE
GTD	GRADE TO DRAIN
LA	LANDSCAPE AREA
LOD	LIMIT OF DISTURBANCE
MAX	MAXIMUM
MIN	MINIMUM
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
PERF	PERFORATED
PROP	PROPOSED
REM	REMOVE
RET	RETAIN
R&D	REMOVE AND DISPOSE
R&R	REMOVE AND RESET
SWEL	SOLID WHITE EDGE LINE
SWLL	SOLID WHITE LANE LINE
TS	TOP OF SLOPE
TYP	TYPICAL

Utility

CB	CATCH BASIN
CMP	CORRUGATED METAL PIPE
CO	CLEANOUT
DCB	DOUBLE CATCH BASIN
DMH	DRAIN MANHOLE
CIP	CAST IRON PIPE
COND	CONDUIT
DIP	DUCTILE IRON PIPE
FES	FLARED END SECTION
FM	FORCE MAIN
F&G	FRAME AND GRATE
F&C	FRAME AND COVER
GI	GUTTER INLET
GT	GREASE TRAP
HDPE	HIGH DENSITY POLYETHYLENE PIPE
HH	HANDHOLE
HW	HEADWALL
HYD	HYDRANT
INV	INVERT ELEVATION
I=	INVERT ELEVATION
LP	LIGHT POLE
MES	METAL END SECTION
PWW	PAVED WATER WAY
PVC	POLYVINYLCHLORIDE PIPE
RCP	REINFORCED CONCRETE PIPE
R=	RIM ELEVATION
SMH	SEWER MANHOLE
TSV	TAPPING SLEEVE, VALVE AND BOX
UG	UNDERGROUND
UP	UTILITY POLE

Notes:

General

1. CONTRACTOR SHALL NOTIFY "DIG-SAFE" (1-888-344-7233) AT LEAST 72 HOURS BEFORE EXCAVATING.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SECURITY AND JOB SAFETY. CONSTRUCTION ACTIVITIES SHALL BE IN ACCORDANCE WITH OSHA STANDARDS AND LOCAL REQUIREMENTS.
3. ACCESSIBLE ROUTES, PARKING SPACES, RAMPS, SIDEWALKS AND WALKWAYS SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE FEDERAL AMERICANS WITH DISABILITIES ACT AND WITH STATE AND LOCAL LAWS AND REGULATIONS (WHICHEVER ARE MORE STRINGENT).
4. AREAS DISTURBED DURING CONSTRUCTION AND NOT RESTORED WITH IMPERVIOUS SURFACES (BUILDINGS, PAVEMENTS, WALKS, ETC.) SHALL RECEIVE 6 INCHES LOAM AND SEED.
5. WITHIN THE LIMITS OF THE BUILDING FOOTPRINT, THE SITE CONTRACTOR SHALL PERFORM EARTHWORK OPERATIONS REQUIRED UP TO SUBGRADE ELEVATIONS.
6. WORK WITHIN THE LOCAL RIGHTS-OF-WAY SHALL CONFORM TO LOCAL MUNICIPAL STANDARDS. WORK WITHIN STATE RIGHTS-OF-WAY SHALL CONFORM TO THE LATEST EDITION OF THE STATE HIGHWAY DEPARTMENTS STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES.
7. UPON AWARD OF CONTRACT, CONTRACTOR SHALL MAKE NECESSARY CONSTRUCTION NOTIFICATIONS AND APPLY FOR AND OBTAIN NECESSARY PERMITS, PAY FEES, AND POST BONDS ASSOCIATED WITH THE WORK INDICATED ON THE DRAWINGS, IN THE SPECIFICATIONS, AND IN THE CONTRACT DOCUMENTS. DO NOT CLOSE OR OBSTRUCT ROADWAYS, SIDEWALKS, AND FIRE HYDRANTS, WITHOUT APPROPRIATE PERMITS.
8. TRAFFIC SIGNAGE AND PAVEMENT MARKINGS SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
9. AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
10. IN THE EVENT THAT SUSPECTED CONTAMINATED SOIL, GROUNDWATER, AND OTHER MEDIA ARE ENCOUNTERED DURING EXCAVATION AND CONSTRUCTION ACTIVITIES BASED ON VISUAL, OLFACTORY, OR OTHER EVIDENCE, THE CONTRACTOR SHALL STOP WORK IN THE VICINITY OF THE SUSPECT MATERIAL TO AVOID FURTHER SPREADING OF THE MATERIAL, AND SHALL NOTIFY THE OWNER IMMEDIATELY SO THAT THE APPROPRIATE TESTING AND SUBSEQUENT ACTION CAN BE TAKEN.
11. CONTRACTOR SHALL PREVENT DUST, SEDIMENT, AND DEBRIS FROM EXITING THE SITE AND SHALL BE RESPONSIBLE FOR CLEANUP, REPAIRS AND CORRECTIVE ACTION IF SUCH OCCURS.
12. DAMAGE RESULTING FROM CONSTRUCTION LOADS SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO OWNER.
13. CONTRACTOR SHALL CONTROL STORMWATER RUNOFF DURING CONSTRUCTION TO PREVENT ADVERSE IMPACTS TO OFF SITE AREAS, AND SHALL BE RESPONSIBLE TO REPAIR RESULTING DAMAGES, IF ANY, AT NO COST TO OWNER.
14. THIS PROJECT DISTURBS MORE THAN ONE ACRE OF LAND AND FALLS WITHIN THE NPDES CONSTRUCTION GENERAL PERMIT (CGP) PROGRAM AND EPA JURISDICTION. PRIOR TO THE START OF CONSTRUCTION CONTRACTOR IS TO FILE A CGP NOTICE OF INTENT WITH THE EPA AND PREPARE A STORMWATER POLLUTION PREVENTION PLAN IN ACCORDANCE WITH THE NPDES REGULATIONS. CONTRACTOR SHALL CONFIRM THE OWNER HAS ALSO FILED A NOTICE OF INTENT WITH THE EPA.

Utilities

1. THE LOCATIONS, SIZES, AND TYPES OF EXISTING UTILITIES ARE SHOWN AS AN APPROXIMATE REPRESENTATION ONLY. THE OWNER OR IT'S REPRESENTATIVE(S) HAVE NOT INDEPENDENTLY VERIFIED THIS INFORMATION AS SHOWN ON THE PLANS. THE UTILITY INFORMATION SHOWN DOES NOT GUARANTEE THE ACTUAL EXISTENCE, SERVICEABILITY, OR OTHER DATA CONCERNING THE UTILITIES, NOR DOES IT GUARANTEE AGAINST THE POSSIBILITY THAT ADDITIONAL UTILITIES MAY BE PRESENT THAT ARE NOT SHOWN ON THE PLANS. PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY AND DETERMINE THE EXACT LOCATIONS, SIZES, AND ELEVATIONS OF THE POINTS OF CONNECTIONS TO EXISTING UTILITIES AND, SHALL CONFIRM THAT THERE ARE NO INTERFERENCES WITH EXISTING UTILITIES AND THE PROPOSED UTILITY ROUTES, INCLUDING ROUTES WITHIN THE PUBLIC RIGHTS OF WAY.
2. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, OR EXISTING CONDITIONS DIFFER FROM THOSE SHOWN SUCH THAT THE WORK CANNOT BE COMPLETED AS INTENDED, THE LOCATION, ELEVATION, AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED IN WRITING TO THE OWNER'S REPRESENTATIVE FOR THE RESOLUTION OF THE CONFLICT. CONTRACTOR'S FAILURE TO NOTIFY PRIOR TO PERFORMING ADDITIONAL WORK RELEASES OWNER FROM OBLIGATIONS FOR ADDITIONAL PAYMENTS WHICH OTHERWISE MAY BE WARRANTED TO RESOLVE THE CONFLICT.
3. SET CATCH BASIN RIMS, AND INVERTS OF SEWERS, DRAINS, AND DITCHES IN ACCORDANCE WITH ELEVATIONS ON THE GRADING AND UTILITY PLANS.
4. RIM ELEVATIONS FOR DRAIN AND SEWER MANHOLES, WATER VALVE COVERS, GAS GATES, ELECTRIC AND TELEPHONE PULL BOXES, AND MANHOLES, AND OTHER SUCH ITEMS, ARE APPROXIMATE AND SHALL BE SET/RESET AS FOLLOWS:
   A. PAVEMENTS AND CONCRETE SURFACES: FLUSH
   B. ALL SURFACES ALONG ACCESSIBLE ROUTES: FLUSH
   C. LANDSCAPE, LOAM AND SEED, AND OTHER EARTH SURFACE AREAS: ONE INCH ABOVE SURROUNDING AREA AND TAPER EARTH TO THE RIM ELEVATION.
5. THE LOCATION, SIZE, DEPTH, AND SPECIFICATIONS FOR CONSTRUCTION OF PROPOSED PRIVATE UTILITY SERVICES SHALL BE INSTALLED ACCORDING TO THE REQUIREMENTS PROVIDED BY, AND APPROVED BY, THE RESPECTIVE UTILITY COMPANY (GAS, TELEPHONE, ELECTRIC, FIRE ALARM, ETC.). FINAL DESIGN LOADS AND LOCATIONS TO BE COORDINATED WITH OWNER AND ARCHITECT.
6. THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR AND SHALL BE RESPONSIBLE FOR PAYING FEES FOR POLE RELOCATION AND FOR THE ALTERATION AND ADJUSTMENT OF GAS, ELECTRIC, TELEPHONE, FIRE ALARM, AND ANY OTHER PRIVATE UTILITIES, WHETHER WORK IS PERFORMED BY CONTRACTOR OR BY THE UTILITIES COMPANY.
7. UTILITY PIPE MATERIALS SHALL BE AS FOLLOWS, UNLESS OTHERWISE NOTED ON THE PLAN:
   A. WATER PIPES SHALL BE DUCTILE IRON PIPE (DIP) TO CONFORM TO ANSI/AWWA A-21.51/C151. MINI PRESSURE CLASS 350 PIPE.
   B. SANITARY SEWER PIPES SHALL BE ASTM D-3034, SDR.
   C. STORM DRAINAGE PIPES SHALL BE REINFORCED CONCRETE (RCP)
8. SITE CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR AND SHALL FURNISH EXCAVATION, INSTALLATION, AND BACKFILL OF ELECTRICAL FURNISHED SITEWORK RELATED ITEMS SUCH AS PULL BOXES, CONDUITS, DUCT BANKS, LIGHT POLE BASES, AND CONCRETE PADS. SITE CONTRACTOR SHALL FURNISH CONCRETE ENCASEMENT OF DUCT BANKS IF REQUIRED BY THE UTILITY COMPANY AND AS INDICATED ON THE DRAWINGS.
9. SITE CONTRACTOR SHALL EXCAVATE AND BACKFILL TRENCHES FOR GAS IN ACCORDANCE WITH GAS COMPANY'S REQUIREMENTS.
10. ALL DRAINAGE AND SANITARY STRUCTURE INTERIOR DIAMETERS (4' MIN.) SHALL BE DETERMINED BY THE MANUFACTURER BASED ON THE PIPE CONFIGURATIONS SHOWN ON THESE PLANS. FOR MANHOLES THAT ARE 20 FEET IN DEPTH AND GREATER, THE MINIMUM DIAMETER SHALL BE 5 FEET.

Layout and Materials

1. DIMENSIONS ARE FROM THE FACE OF CURB, FACE OF BUILDING, FACE OF WALL, AND CENTER LINE OF PAVEMENT MARKINGS, UNLESS OTHERWISE NOTED.
2. CURB RADII ARE 5 FEET UNLESS OTHERWISE NOTED.
3. CURBING SHALL BE INDICATED ON SHEET C400 THE PLANS.
4. SEE ARCHITECTURAL DRAWINGS FOR EXACT BUILDING DIMENSIONS AND DETAILS CONTIGUOUS TO THE BUILDING, INCLUDING SIDEWALKS, RAMPS, BUILDING ENTRANCES, STAIRWAYS, UTILITY PENETRATIONS, CONCRETE DOOR PADS, COMPACTOR PAD, LOADING DOCKS, BOLLARDS, ETC.
5. PROPOSED GRANITE BOUNDS AND ANY EXISTING PROPERTY LINE MONUMENTATION DISTURBED DURING CONSTRUCTION SHALL BE SET OR RESET BY A PROFESSIONAL LICENSED SURVEYOR.
6. PRIOR TO START OF CONSTRUCTION, CONTRACTOR SHALL VERIFY EXISTING PAVEMENT ELEVATIONS AT INTERFACE WITH PROPOSED PAVEMENTS, AND EXISTING GROUND ELEVATIONS ADJACENT TO DRAINAGE OUTLETS TO ASSURE PROPER TRANSITIONS BETWEEN EXISTING AND PROPOSED FACILITIES.
7. SYMBOLS AND LEGENDS OF PROJECT FEATURES ARE GRAPHIC REPRESENTATIONS AND ARE NOT NECESSARILY SCALED TO THEIR ACTUAL DIMENSIONS OR LOCATIONS ON THE DRAWINGS. THE CONTRACTOR SHALL REFER TO THE DETAIL SHEET DIMENSIONS, MANUFACTURERS' LITERATURE, SHOP DRAWINGS AND FIELD MEASUREMENTS OF SUPPLIED PRODUCTS FOR LAYOUT OF THE PROJECT FEATURES.
8. CONTRACTOR SHALL NOT RELY SOLELY ON ELECTRONIC VERSIONS OF PLANS, SPECIFICATIONS, AND DATA FILES THAT ARE OBTAINED FROM THE DESIGNERS, BUT SHALL VERIFY LOCATION OF PROJECT FEATURES IN ACCORDANCE WITH THE PAPER COPIES OF THE PLANS AND SPECIFICATIONS THAT ARE SUPPLIED AS PART OF THE CONTRACT DOCUMENTS.

Demolition

1. THE CONTRACTOR TO REMOVE AND DISPOSE OF EXISTING MANMADE SURFACE FEATURES WITHIN THE LIMIT OF WORK INCLUDING BUILDINGS, STRUCTURES, PAVEMENTS, SLABS, CURBING, FENCES, UTILITY POLES, SIGNS, ETC. UNLESS INDICATED OTHERWISE ON THE DRAWINGS. REMOVE AND DISPOSE OF EXISTING UTILITIES, FOUNDATIONS, AND UNSUITABLE MATERIAL WITHIN THE PROPOSED BUILDING FOOTPRINT AND TEN FEET BEYOND AND BENEATH PROPOSED EXTERIOR COLUMNS, PER DRAWINGS AND SPECIFICATIONS.
2. EXISTING UTILITIES SHALL BE TERMINATED, UNLESS OTHERWISE NOTED, IN CONFORMANCE WITH LOCAL, STATE, AND INDIVIDUAL UTILITY COMPANIES STANDARDS SPECIFICATIONS, AND DETAILS. THE CONTRACTOR SHALL COORDINATE UTILITY SERVICE DISCONNECTS WITH THE UTILITY REPRESENTATIVES.
3. CONTRACTOR SHALL DISPOSE OF DEMOLITION DEBRIS IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS, ORDINANCES, AND STATUTES.

Erosion Control

1. PRIOR TO STARTING ANY OTHER WORK ON THE SITE, THE CONTRACTOR SHALL NOTIFY APPROPRIATE AGENCIES AND SHALL INSTALL EROSION CONTROL MEASURES AS SHOWN ON THE PLANS AND AS IDENTIFIED IN FEDERAL, STATE, AND LOCAL APPROVAL DOCUMENTS PERTAINING TO THIS PROJECT.
2. CONTRACTOR SHALL INSPECT AND MAINTAIN EROSION CONTROL MEASURES, AND REMOVE SEDIMENT THEREFROM ON A WEEKLY BASIS AND WITHIN TWELVE HOURS AFTER EACH STORM EVENT AND DISPOSE OF SEDIMENTS IN AN UPLAND AREA SUCH THAT THEY DO NOT ENCUMBER OTHER DRAINAGE STRUCTURES AND PROTECTED AREAS.
3. CONTRACTOR SHALL BE FULLY RESPONSIBLE TO CONTROL CONSTRUCTION SUCH THAT SEDIMENTATION SHALL NOT AFFECT REGULATORY PROTECTED AREAS, WHETHER SUCH SEDIMENTATION IS CAUSED BY WATER, WIND, OR DIRECT DEPOSIT.
4. CONTRACTOR SHALL PERFORM CONSTRUCTION SEQUENCING SUCH THAT EARTH MATERIALS ARE EXPOSED FOR A MINIMUM OF TIME BEFORE THEY ARE COVERED, SEEDED, OR OTHERWISE STABILIZED TO PREVENT EROSION.
5. UPON COMPLETION OF CONSTRUCTION AND ESTABLISHMENT OF PERMANENT GROUND COVER, CONTRACTOR SHALL REMOVE AND DISPOSE OF EROSION CONTROL MEASURES AND CLEAN SEDIMENT AND DEBRIS FROM ENTIRE DRAINAGE AND SEWER SYSTEMS.

Existing Conditions Information

1. BASE PLAN: THE PROPERTY LINES SHOWN WERE DETERMINED BY AN ACTUAL FIELD SURVEY CONDUCTED BY LAND-TECH SURVEYING & MAPPING CORP., TOPOGRAPHIC SURVEY. THE TOPOGRAPHY AND PHYSICAL FEATURES ARE BASED ON AN ACTUAL FIELD SURVEY PERFORMED ON THE GROUND BY LAND-TECH SURVEYING & MAPPING CORP., DURING 01-22-03.
   A. DELINEATION OF THE WETLANDS AND PLACEMENT OF THE FLAGS WAS PERFORMED BY: VHB
   B. FLAGS MARKING THE WETLANDS WERE LOCATED BY: VHB, ONSITE WETLANDS WERE DELINEATED IN THE FIELD USING METHODOLOGIES PRESCRIBED IN THE UNITED STATES ARMY CORPS OF ENGINEERS (ACOE) WETLAND DELINEATION MANUAL (1987) AND THE FLORIDA UNIFIED WETLAND DELINEATION METHODOLOGY (CHAPTER 62-340, F.A.C.)
2. TOPOGRAPHY: ELEVATIONS ARE BASED ON VERTICAL DATUM IS BASED ON: SEMINOLE COUNTY GPS BENCHMARK DESIGNATION NUMBER 426280203, WITH GPS NUMBER/NAME 0203 / DANA RAE, ELEVATION BEING 66.827' (NAD 83).
3. GEOTECHNICAL DATA INCLUDING TEST PIT AND BORING LOCATIONS AND ELEVATIONS WERE OBTAINED FROM NORDARSE, INC.

VHB
Vanasse Hangen Brustlin, Inc.
Transportation
Land Development
Environmental Services
135 West Central Boulevard, Suite 800
Orlando, Florida 32801-2746
407 839 4006 • FAX 407 839 4008
EB-3932

No.	Revision	Date	Apprvd.

Designed by LYL | Drawn by JLG | Checked by JRB
CAD checked by MT | Approved by JRB
Scale N.T.S | Date 01/20/06
Project Title

Oviedo on the Park

Oviedo, Florida
Issued for

SJRWMD

Drawing Title

Legend, Abbreviations and General Notes

Drawing Number

C001

Sheet of

Project Number 60972.00

60972-GN.DWG

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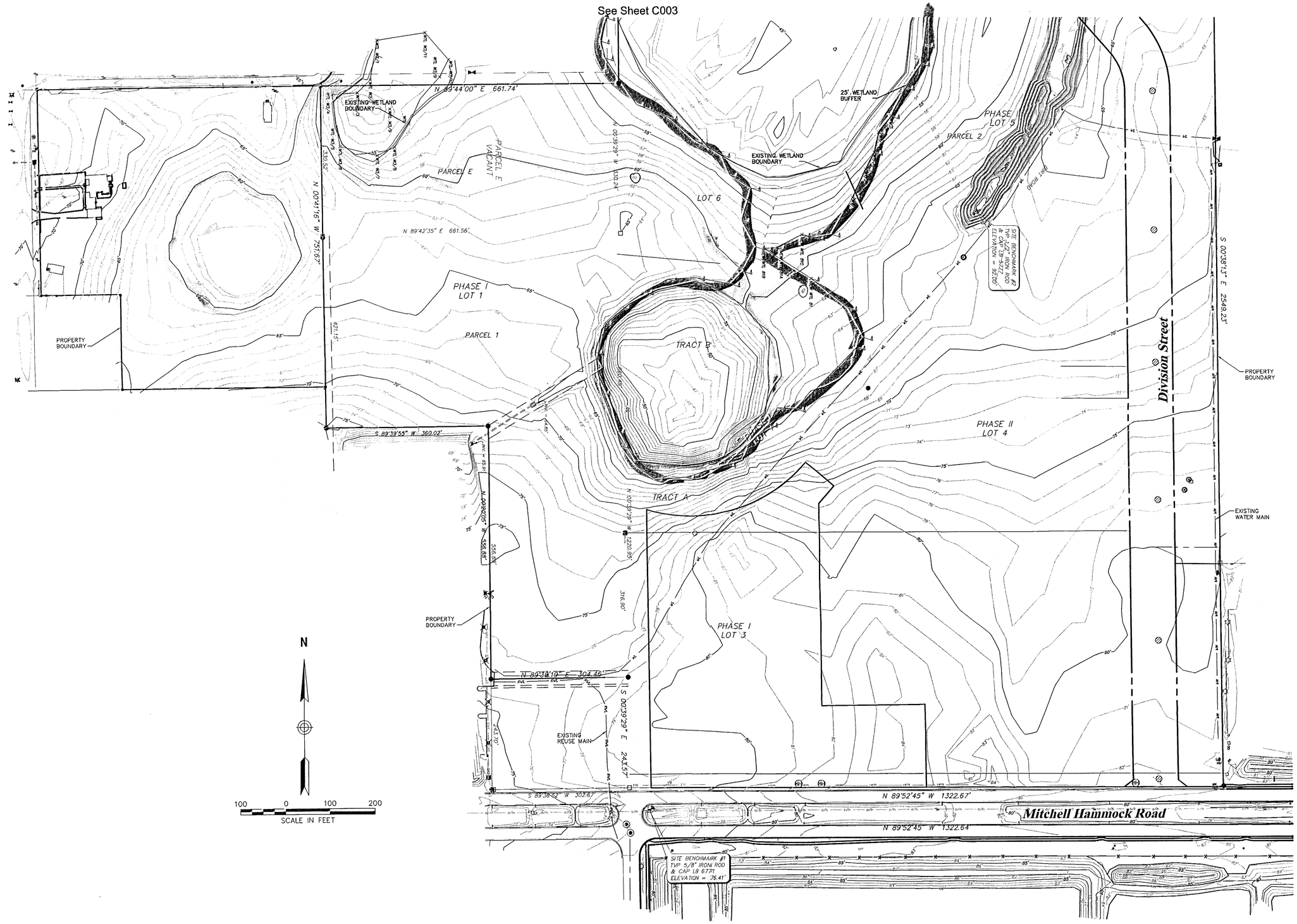
See Sheet C003



VHB

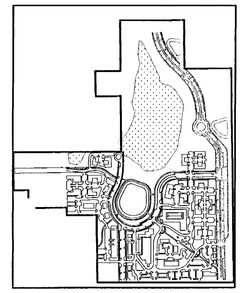
Vanasse Hangen Brustlin, Inc.

Transportation
Land Development
Environmental Services

135 West Central Boulevard, Suite 800
Orlando, Florida 32801-2746
407 839 4006 • FAX 407 839 4008

EB-3932

Key Map



No.	Revision	Date	Appvd.

Designed by LYL	Drawn by JLG	Checked by JRB
CAD checked by MT	Approved by JRB	
Scale 1"=100'	Date 01/20/06	

Project Title

Oviedo on the Park

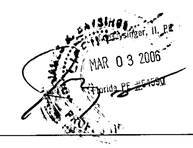
Oviedo, Florida

Issued for

SJRWMD

Drawing Title

Existing Conditions



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C002

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Project Number
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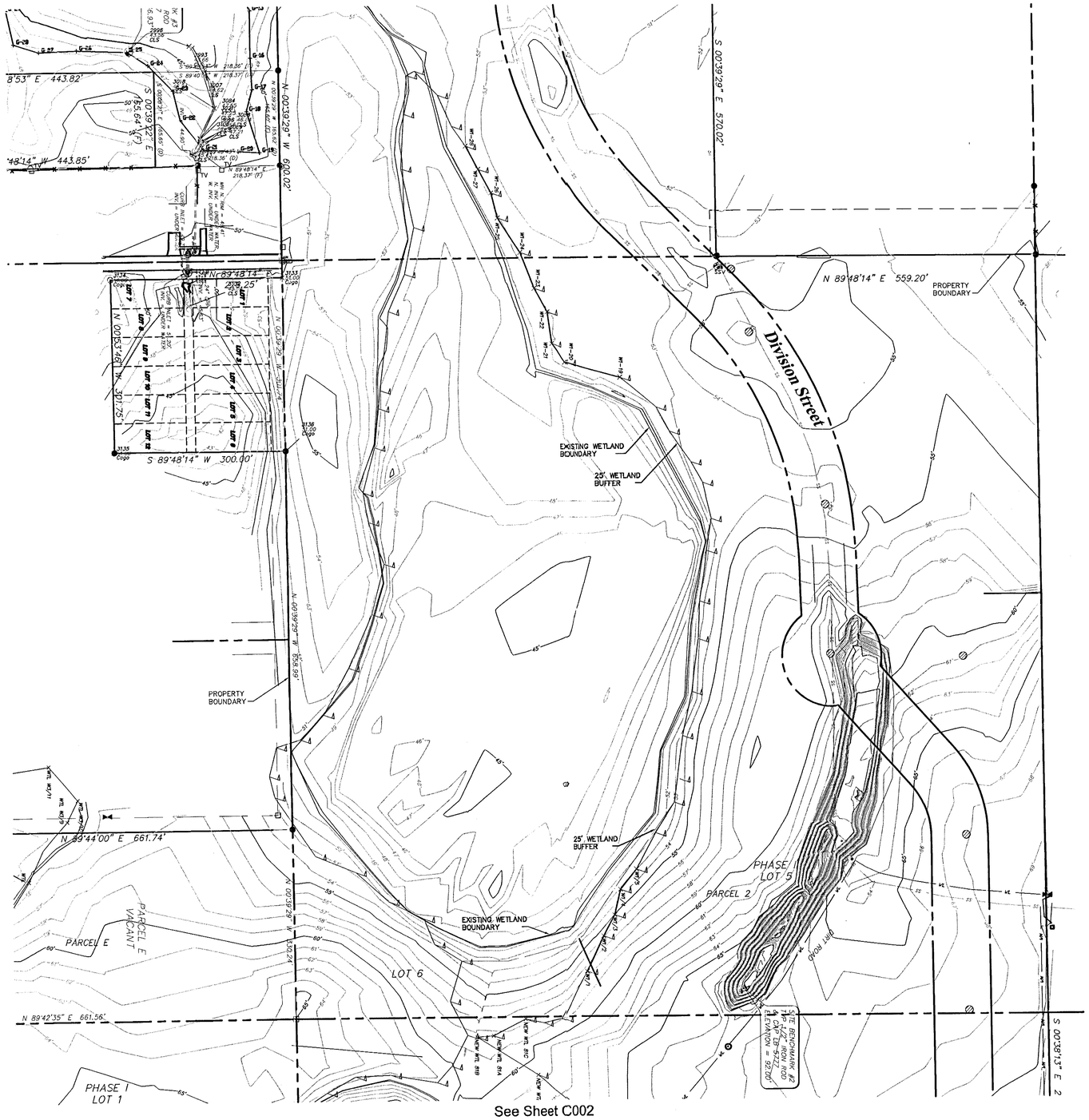


See Sheet C002

VHB

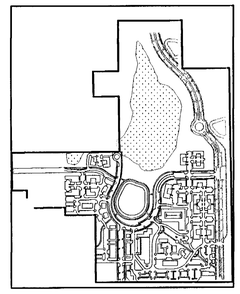
Vanasse Hangen Brustlin, Inc.

Transportation
Land Development
Environmental Services

135 West Central Boulevard, Suite 800
Orlando, Florida 32801-2746
407 839 4006 • FAX 407 839 4008

EB-3932

Key Map



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Designed by LYL | Drawn by JLG | Checked by JRB
CAD checked by MT | Approved by JRB
Scale 1"=100' | Date 01/20/06

Project Title

Oviedo on the Park

Oviedo, Florida

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Drawing Title

Existing Conditions

Drawing Number

C003

Sheet of

Project Number
60972.00

60972-EC.DWG

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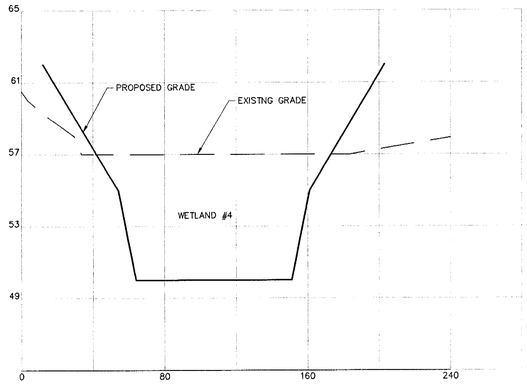
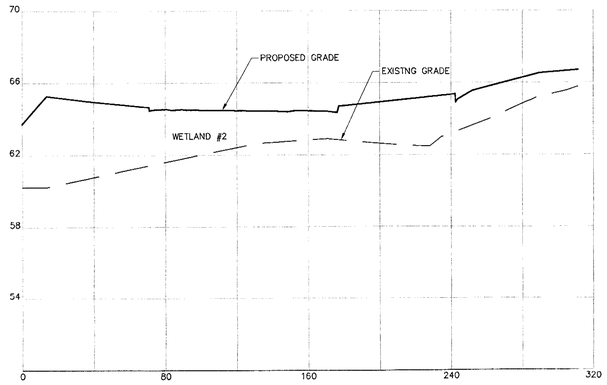


SECTION A-A



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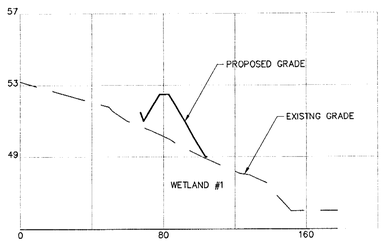

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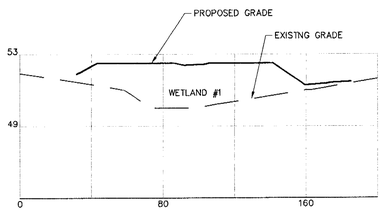

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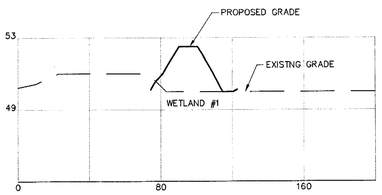

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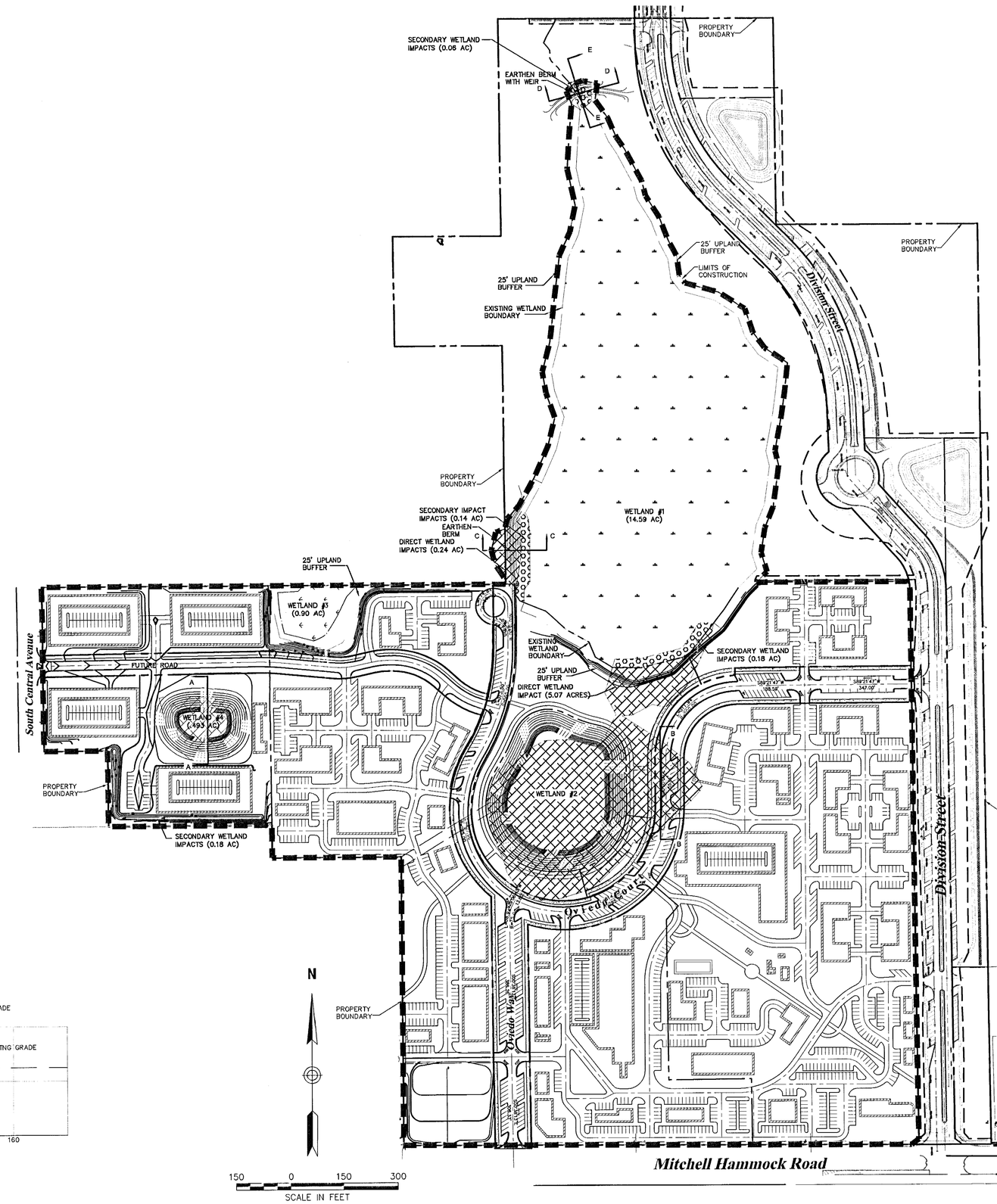

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Transportation
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Environmental Services
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Orlando, Florida 32801-2746
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EB-3932

Legend

- Wetland Enhancement (14.74 Acres)
- Wetland Preservation (0.90 Acres)
- Direct Wetland Impacts (5.72 Acres)
- Secondary Wetland Impacts (0.38 Acres)
- Wetland Impact Cross-Section

No.	Revision	Date	Appvd.

Designed by LYL | Drawn by JLG | Checked by JRB
CAD checked by MT | Approved by JRB
Scale 1"=150' | Date 01/20/06

Project Title

Oviedo on the Park

Oviedo, Florida

Issued for

SJRWMD

Drawing Title

Environmental Consideration Plan

Drawing Number

C004

Sheet of

Project Number 60972.00

3/2/06
Paul W. Yeargain, P.E.
PE #50682

60972-ECP.DWG

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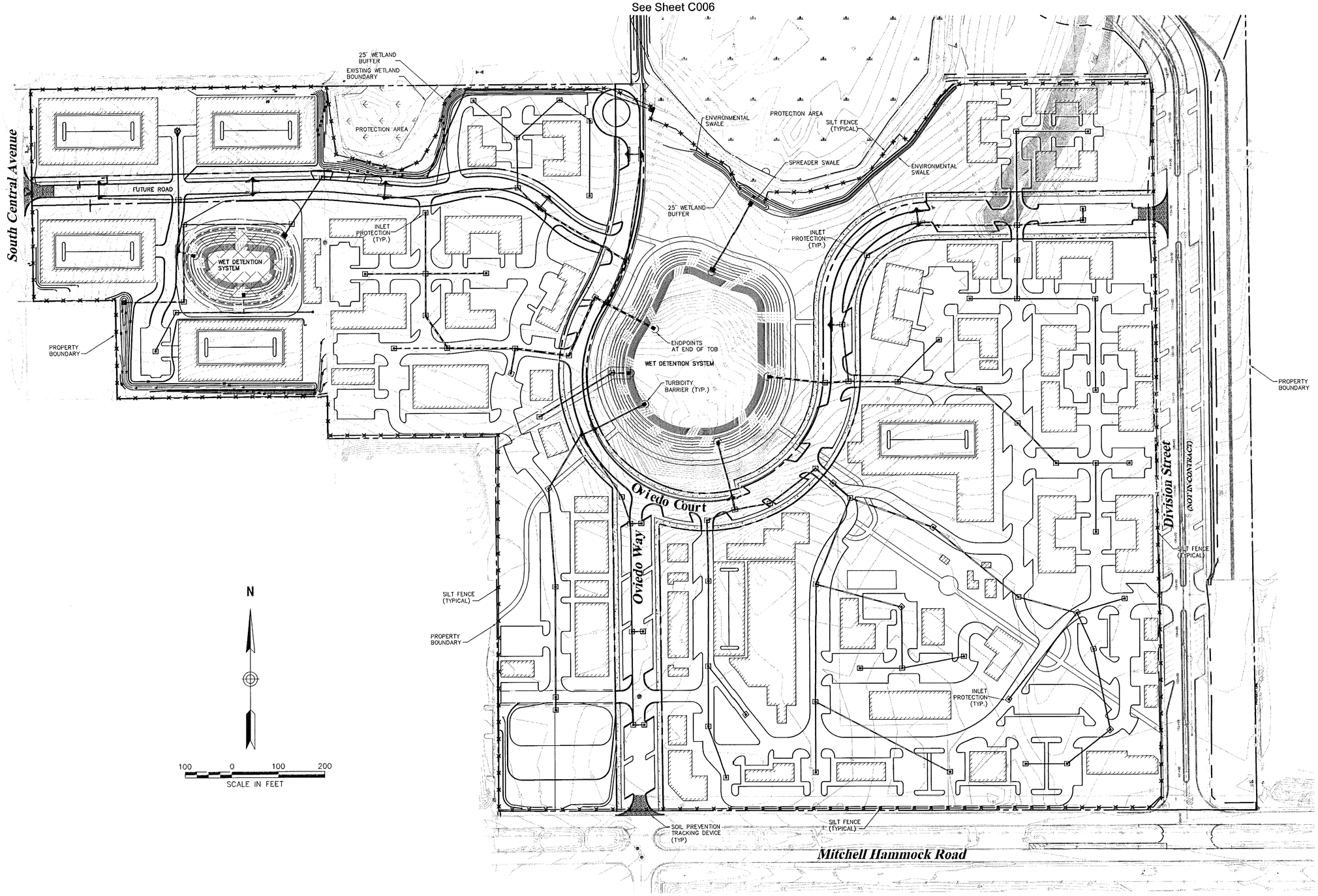

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No.	Revision	Date	Appvd.

Designed by LYL	Drawn by JLG	Checked by JRB
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Scale 1"=100'		Date 01/20/06

Project Title

Oviedo on the Park

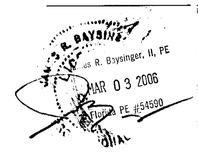
Oviedo, Florida

Issued for

SJRWMD

Drawing Title

Erosion & Sediment Control Plan

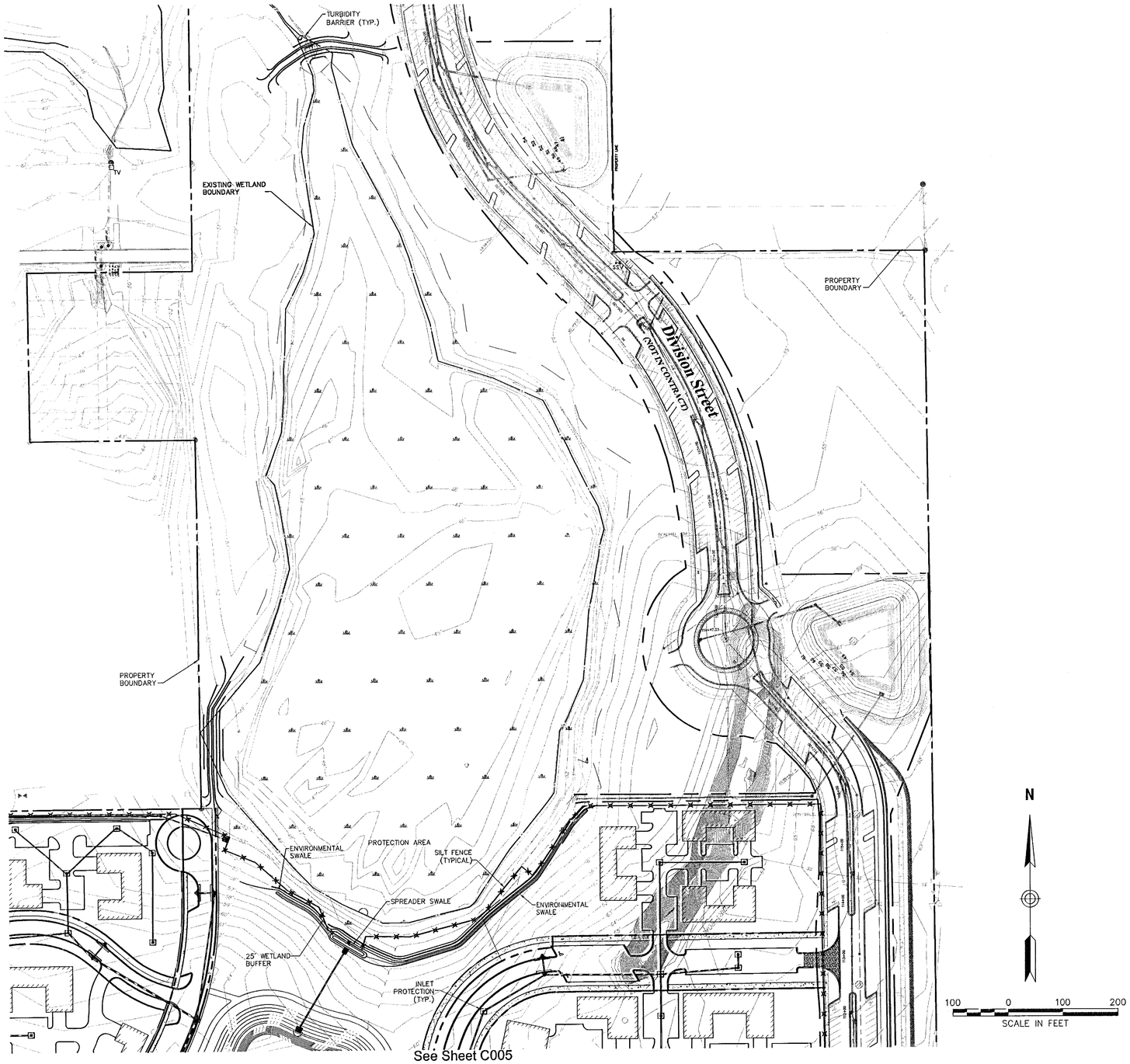


Drawing Number

C005

Sheet of

Project Number
60972.00



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EB-3932

No.	Revision	Date	Apprvd.

Designed by LYL	Drawn by JLG	Checked by JRB
CAD checked by MT	Approved by JRB	
Scale 1"=100'	Date 01/20/06	

Project Title

Oviedo on the Park

Oviedo, Florida

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Drawing Title

Erosion & Sediment Control Plan

104169 1X

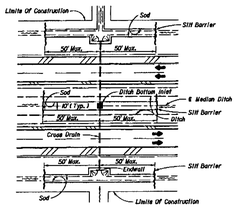
Drawing Number

C006

Sheet of

Project Number
60972.00

James R. Grysinger, II, PE
MAR 03 2006
Florida PE #54590



DITCH INSTALLATIONS AT DRAINAGE STRUCTURES

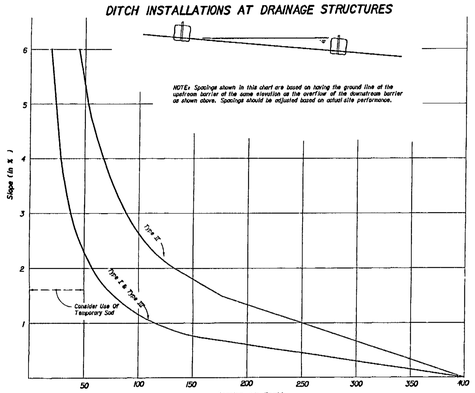
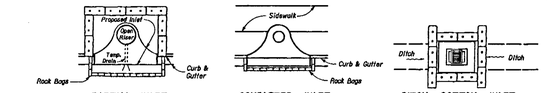
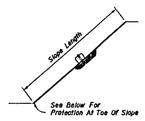


CHART I

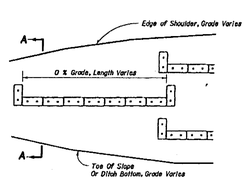


PARTIAL INLET — COMPLETED INLET — DITCH BOTTOM INLET

PROTECTION AROUND INLETS OR SIMILAR STRUCTURES



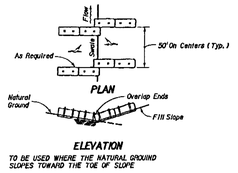
SECTION AA



ELEVATION

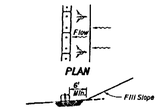
Notes
Where the slope length exceeds 25 feet, construct one row of bale barriers at 0% longitudinal grade midway up the slope. Construct two rows of bale barriers where the slope length exceeds 50 feet.

ALONG FILL SLOPE



PLAN — ELEVATION

TO BE USED WHERE THE NATURAL GROUND SLOPES TOWARD THE TOE OF SLOPE



PLAN — ELEVATION

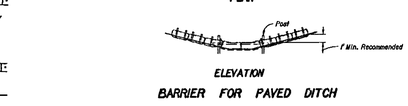
TO BE USED WHERE THE NATURAL GROUND SLOPES AWAY FROM THE TOE OF SLOPE

AT TOE OF SLOPE

BARRIERS FOR FILL SLOPES

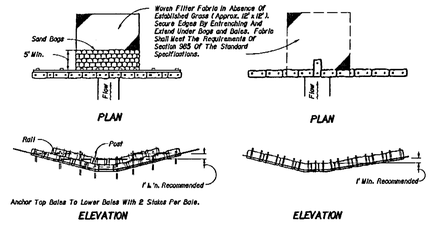
NOTES FOR BALED HAY OR STRAW BARRIERS

1. Type I and II barriers should be spaced in accordance with Chart I, Sheet 1.
2. Hay bales shall be trenched 3" to 4" and anchored with 2 - 1" x 2" (or 1" dia.) x 4' wood stakes. Stakes of other material or shape providing equivalent strength may be used if approved by the Engineer. Stakes other than wood shall be removed upon completion of the project.
3. Rails and posts shall be 2" x 4" wood. Other materials providing equivalent strength may be used if approved by the Engineer.
4. Adjacent bales shall be butted firmly together. Unavoidable gaps shall be plugged with hay or straw to prevent silt from passing.
5. Where used in conjunction with silt fence, hay bales shall be placed on the upstream side of the fence.
6. Bales to be paid for under the contract unit price for Baled Hay or Straw, EA. The unit price shall include the cost of filter fabric for Type I and II barriers. Sand bags shall be paid for under the unit price for Sandbagging, CY. Rock bags to be paid for under the contract unit price for Rock Bags, EA.



PLAN — ELEVATION

BARRIER FOR PAVED DITCH



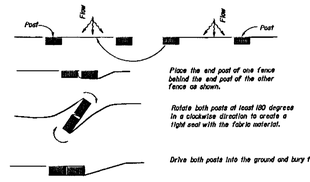
PLAN — PLAN — ELEVATION — ELEVATION

TYPE II — TYPE I

BARRIERS FOR UNPAVED DITCHES

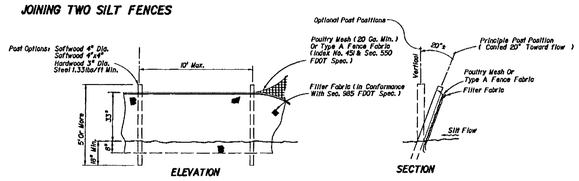
NOTES FOR SILT FENCES

1. Type III Silt Fence to be used at most locations. Where used in ditches, the spacing for Type III Silt Fence shall be in accordance with Chart I, Sheet 1.
2. Type IV Silt Fence to be used where large sediment loads are anticipated. Suggested use is where fill slope is 1:2 or steeper and length of slope exceeds 25 feet. Avoid use where the detailed water may back into travel lanes or off the right of way.
3. Do not construct silt fences across permanent flowing watercourses. Silt fences are to be at upland locations and turbidity barriers used at permanent bodies of water.
4. Where used as slope protection, Silt Fence is to be constructed on the longitudinal grade to avoid channelizing runoff along the length of the fence.
5. Silt Fence to be paid for under the contract unit price for Staked Silt Fence, (LF).



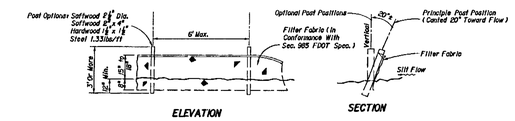
PLAN VIEW

JOINING TWO SILT FENCES



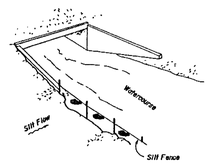
ELEVATION — SECTION

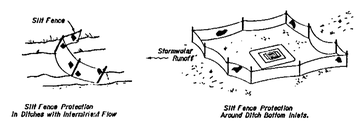
TYPE IV SILT FENCE



ELEVATION — SECTION

TYPE III SILT FENCE





Silt Fence Protection In Ditches with Intermittent Flow — Silt Fence Protection Around Ditch Bottom Inlets.

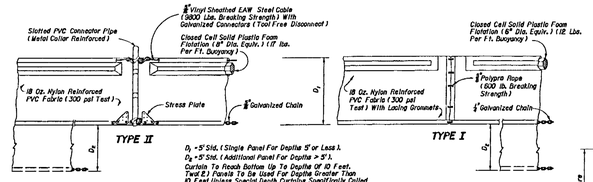
SILT FENCE APPLICATIONS

RECOMMENDED SPACING FOR BALED HAY BARRIERS AND TYPE III SILT FENCE

Temporary Erosion and Sediment Control

N.T.S. — Source: FDOT 2002 — 3/02

FL-SW-PPP-DT.dwg (FDOT 102 Erosion Control.tif)

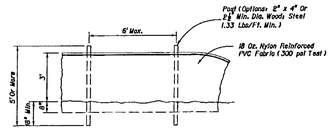


TYPE II — TYPE I

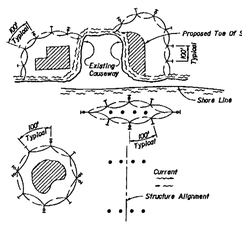
D_1 = 5' Std. (Single Panel For Depths 5' or Less).
D_2 = 5' Std. (Additional Panel For Depths > 5').
Curtain To Reach Bottom Up To Depths Of 10 Feet. Two 2:1 Panels To Be Used For Depths Greater Than 10 Feet Unless Special Depth Curtains Specifically Called For In The Plans Or As Determined By The Engineer.

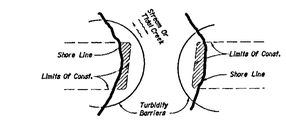
NOTICE: COMPONENTS OF TYPES I AND II MAY BE SIMILAR OR IDENTICAL TO PROPRIETARY DESIGNS. ANY INFRINGEMENT ON THE PROPRIETARY RIGHTS OF THE DESIGNER SHALL BE THE SOLE RESPONSIBILITY OF THE USER. SUBSTITUTIONS FOR TYPES I AND II SHALL BE AS APPROVED BY THE ENGINEER.

FLOATING TURBIDITY BARRIERS



STAKED TURBIDITY BARRIER





LEGEND
- Pile Locations
- Dredge Or Fill Area
- Mooring Buoy w/Anchor
- Anchor
- Barrier Movement Due To Current Action

NOTES:
1. Turbidity barriers are to be used in all permanent bodies of water regardless of water depth.
2. Number and spacing of anchors dependent on current velocities.
3. Deployment of barrier around pile locations may vary to accommodate construction operations.
4. Navigation may require segmenting barrier during construction operations.
5. For additional information see Section 104 of the Standard Specifications.

Notes
Turbidity barriers for flowing streams and tidal creeks may be either floating, or staked types or any combinations of types that will suit site conditions and meet erosion control and water quality requirements. The barrier type and will be at the Contractors option unless otherwise specified in the plans, however payment will be under the pay item(s) established in the plans for Floating Turbidity Barrier and/or Staked Turbidity Barrier. Posts in staked turbidity barriers to be installed in vertical position unless otherwise directed by the Engineer.

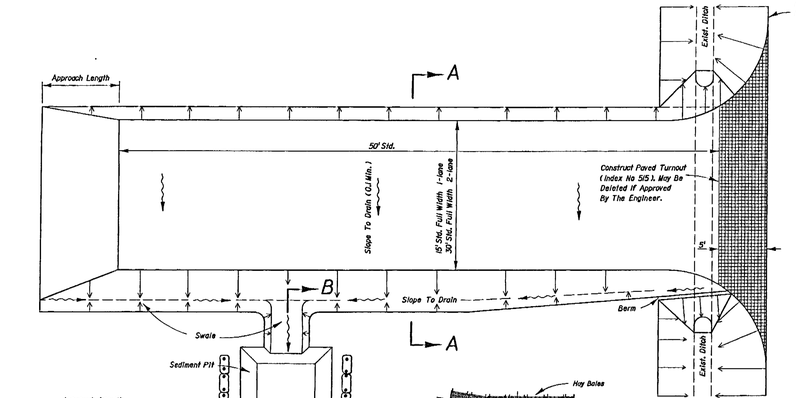
GENERAL NOTES
1. Floating turbidity barriers are to be paid for under the contract unit price for Floating Turbidity Barrier, LF.
2. Staked turbidity barriers are to be paid for under the contract unit price for Staked Turbidity Barrier, LF.

TURBIDITY BARRIER APPLICATIONS

Turbidity Barriers

N.T.S. — Source: FDOT 2002 — 3/02

FL-SW-PPP-DT.dwg (FDOT 103 Turbidity Barriers.tif)



TRANSITION DETAIL — SECTION B-B — SECTION A-A — RURAL CONNECTION DETAIL

GENERAL NOTES
1. A Soil Tracking Prevention Device (STPD) shall be constructed at locations designated by the engineer for points of egress from unstabilized areas of the project to public roads where offsite tracking of mud could occur. Traffic from unstabilized areas of the construction project shall be directed thru a STPD. Barriers, flagging, or other positive means shall be used as required to limit and direct vehicular egress across the STPD.
2. The Contractor may propose an alternative technique to minimize offsite tracking of sediment. The alternative must be reviewed and approved by the Engineer prior to its use.
3. All materials spilled, dropped, or tracked onto public roads (including the STPD aggregate and construction mat) shall be removed daily, or more frequently if so directed by the Engineer.
4. Aggregates shall be as described in Section 901 excluding 901-2.3. Aggregates shall be FDOT size "1". If this size is not available, the next available smaller size aggregate may be substituted with the approval of the Engineer. Sizes containing excessive small aggregate will track off the project and are unsuitable.
5. The sediment pit should provide a retention volume of 3600 cubic feet/acre of surface area draining to the pit. When the STPD is located from other drainage areas, the following pit volumes will satisfy this requirement:
   15' x 50' = 900 ft³
   30' x 50' = 1800 ft³
   As an option to the sediment pit, the width of the swale bottom can be increased to obtain the volume. When the sediment pit or swale volume has been reduced to one half, it shall be cleaned. When a swale is used, hay bales or silt fence shall be placed along the entire length.
6. The swale ditch draining the STPD shall have a 0.5% minimum and a 10% maximum grade along the STPD and to the sediment pit.
7. Mitered end sections are not required when the sidedrain pipe satisfies the clear zone requirements.
8. The STPD shall be maintained in a condition that will allow it to perform its function. To prevent offsite tracking, the STPD shall be rinsed (dirty water in use) to save accumulated mud downward thru the stone. Additional stabilization of the vehicular route leading to the STPD may be required to limit the mud tracked.
9. A STPD shall be paid for under the contract unit price for Soil Tracking Prevention Device, EA. The unit price shall constitute full compensation for construction, maintenance, replacement of materials, removal, and restoration of the area utilized for the STPDs including but not limited to excavation, grading, temporary pipe (including MES when required), filter fabric, aggregate, paved turnout (including asphalt and base construction), ditch stabilization, approach route stabilization, sediment removal and disposal, water, rinsing and cleaning of the STPD and cleaning of public roads, grassing and sod. Hay bales shall be paid for under the contract unit price for Hay or Straw Baled, EA. Silt fence shall be paid for under the contract unit price for Staked Silt Fence, LF.
10. The nominal size of a standard STPD is 15' x 50' unless otherwise shown in the plans. If the volume of entering and exiting vehicles warrant, a 30' width STPD may be used if approved by the Engineer. When a double width (30') STPD is used, the pay quantity shall be 2 for each location.

Soil Tracking Prevention Device Type A

N.T.S. — Source: FDOT 2002 — 3/02

FL-SW-PPP-DT.dwg (FDOT 106 Tracking Prevention.tif)

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No.	Revision	Date	Appvd.

Designed by LYL | Drawn by JLG | Checked by JRB
CAD checked by MT | Approved by JRB
Scale N.T.S | Date 01/20/06

Project Title

Oviedo on the Park

Oviedo, Florida

Issued for

SJRWMD

Drawing Title

Erosion & Sediment Control Details

Drawing Number
C007
Sheet of
Project Number
60972.00

60972-SW-PPP-DT.DWG

N

100 0 100 200
SCALE IN FEET

LINE TABLE		
LINE	LENGTH	BEARING
L1	520.67	N39°02'27"W
L2	71.76	S39°06'30"W
L3	90.01	S25°36'59"E
L4	443.38	S00°38'13"E
L5	229.08	N89°21'47"E
L6	183.63	S00°38'13"E
L7	461.72	S89°52'54"E
L101	21.29	N72°29'48"E
L102	29.79	N41°09'48"E
L103	26.53	N44°22'21"E
L104	91.22	N29°15'38"E
L105	101.42	N23°35'47"E
L106	91.42	N13°46'14"E
L107	77.56	N19°58'05"W
L108	52.19	N10°09'03"W
L109	81.22	N14°45'46"E
L110	68.51	N06°28'45"E
L111	31.48	N05°17'29"E
L112	137.77	N06°36'57"E
L113	70.98	N24°01'37"E
L114	83.00	N11°14'54"E
L115	104.49	N12°16'46"W
L116	95.09	N03°31'19"E
L117	67.61	N04°43'15"E
L118	15.56	N61°48'21"E
L119	58.22	S43°45'56"E
L120	59.12	S24°08'53"E
L121	42.38	S34°58'49"E
L122	46.25	S28°33'42"E
L123	47.55	S28°07'48"E
L124	44.34	S14°26'49"E
L125	71.54	S32°20'03"E
L126	66.85	S21°03'46"E
L127	46.99	S28°22'47"E
L128	55.62	S08°04'33"E
L129	40.93	S37°27'53"E
L130	100.34	S74°44'53"E
L131	82.03	S50°27'48"E
L132	48.35	S29°27'01"E
L133	65.24	S34°57'10"E
L134	41.31	S29°37'46"E
L135	64.26	S13°00'29"E
L136	56.45	S08°42'35"W
L137	90.58	S08°05'51"W
L138	65.41	S02°38'21"W
L139	91.90	S07°25'27"W
L140	78.09	S12°43'14"W
L141	75.91	S06°57'47"W
L142	41.54	S08°28'10"W
L143	48.53	S35°04'03"W
L144	115.41	S35°04'03"W
L145	118.00	S33°56'13"W
L146	22.81	S53°22'35"W
L147	120.92	S75°43'09"W
L148	80.88	N89°22'52"W
L149	56.08	N58°30'47"W
L150	45.02	N22°19'35"W
L151	71.09	N61°47'11"W
L152	77.34	N48°30'37"W
L153	76.54	N67°47'58"W
L154	24.24	N33°53'37"W
L155	27.22	N00°16'00"W
L156	25.82	S89°44'00"W

PHASE I DATA SUMMARY:

LOT NUMBER	LOT SIZE (IN ACRES)	LAND-USE CATEGORY
1	12.92	RESIDENTIAL MIXED USE
2	1.41	MIXED USE
3	6.54	MIXED USE
4	17.77	MIXED USE
5	3.09	MIXED USE
6	3.67	MIXED USE
7	0.47	COMMERCIAL
13	8.70	RESIDENTIAL (FUTURE)
TRACT B	3.19	N/A
TRACT C	15.05	N/A
TRACT D	3.20	N/A
TOTAL	76.01	

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No.	Revision	Date	Apprvd.

Designed by LYL | Drawn by JLG | Checked by JRB
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Scale 1"=100' | Date 01/20/06
Project Title

Oviedo on the Park

Oviedo, Florida
Issued for

SJRWMD

Drawing Title

Site Plan

Drawing Number
C100
Sheet of
Project Number
60972.00

MAR 03 2006

60972-SITE.DWG

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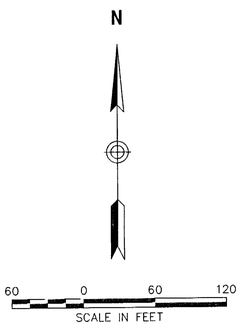

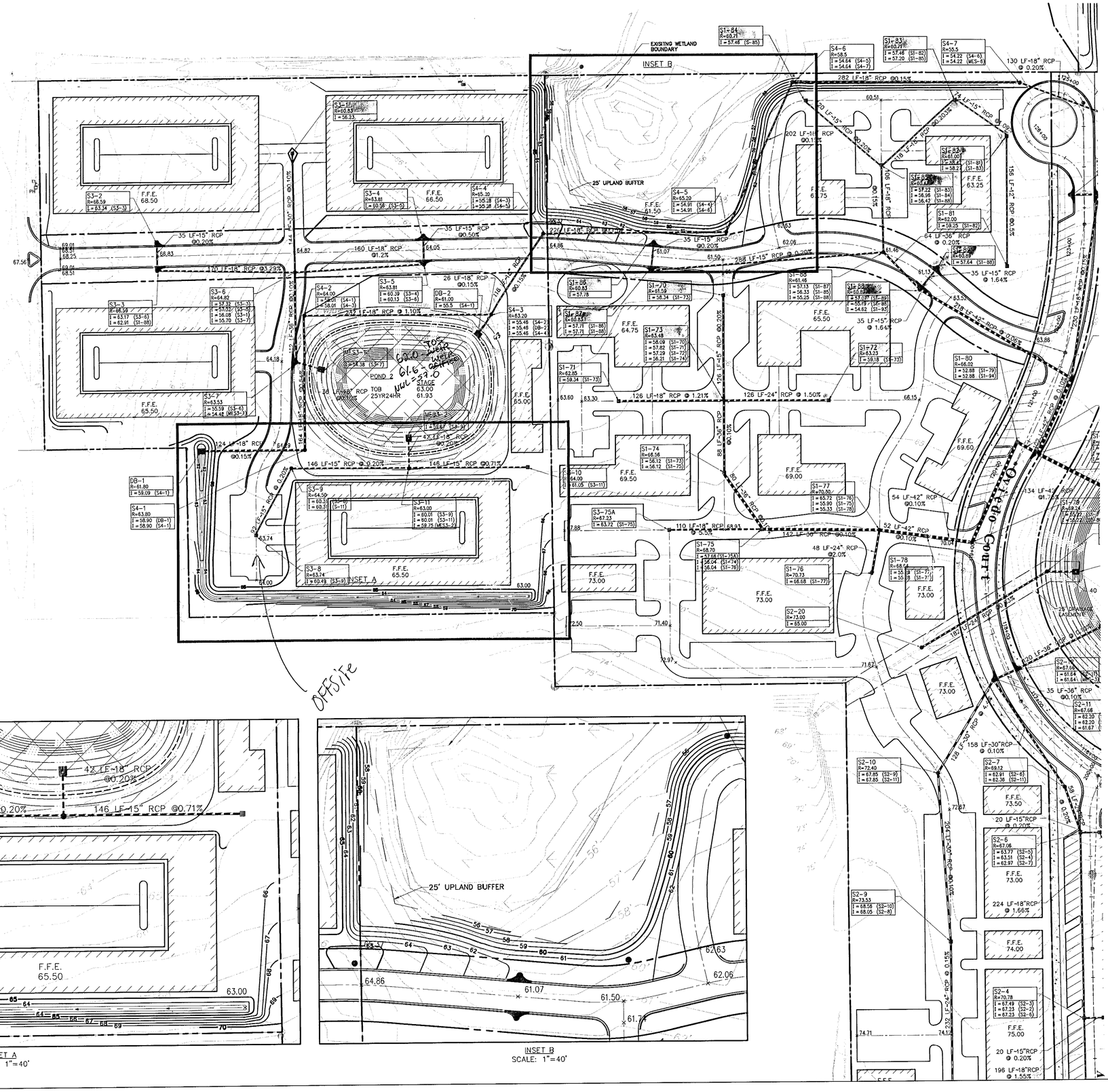

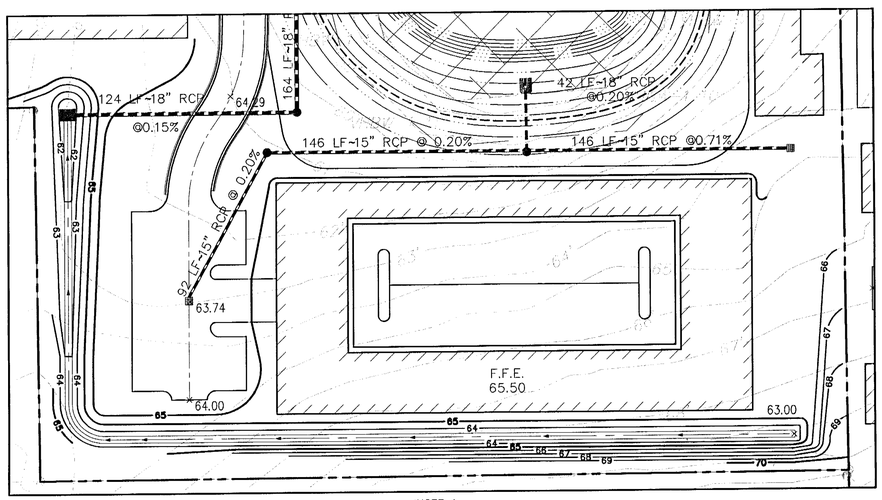

INSET A
SCALE: 1"=40'

INSET B
SCALE: 1"=40'

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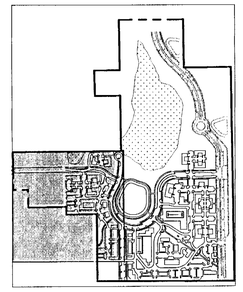
Key Map



See Sheet C201

No.	Revision	Date	Apprvd.

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Scale 1"=60' | Date 01/20/06
Project Title

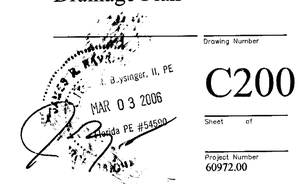
Oviedo on the Park

Oviedo, Florida
Issued for

SJRWMD

Drawing Title

Grading & Drainage Plan



Drawing Number
C200
Sheet of
Project Number
60972.00

60972-GD.DWG

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See Sheet C202

See Sheet C200

POTENTIAL FOR SHORT CIRCUIT

Show Elevations

NWL=58.5
W-I = 61.4
Top = 64.0

Top = 65

Flow Way Flood = 57.6

Oviedo Court

Oviedo Way

Division Street

POND 1
TOB 25YR24HR
STAGE 63.00 64.05

MES-1 I = 56.00 (S1-64)
MES-2 I = 55.45
MES-3 I = 61.52 (S2-11)
MES-4 I = 63.60
MES-5 I = 51.65 (S1-94)
MES-7 I = 55.40 (P-1)

12' DRAINAGE EASEMENT

PROPERTY BOUNDARY

MATCH EXISTING GRADE

MATCH EXISTING GRADE

N

60 0 60 120

SCALE IN FEET

VHB

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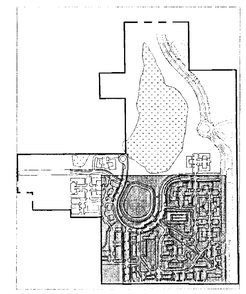
Key Map



No	Revision	Date	Appvd

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Scale 1"=60' | Date 01/20/06

Project Title

Oviedo on the Park

Oviedo, Florida

Issued for

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Drawing Title

Grading & Drainage Plan

Drawing Number
C201

Sheet of

Project Number
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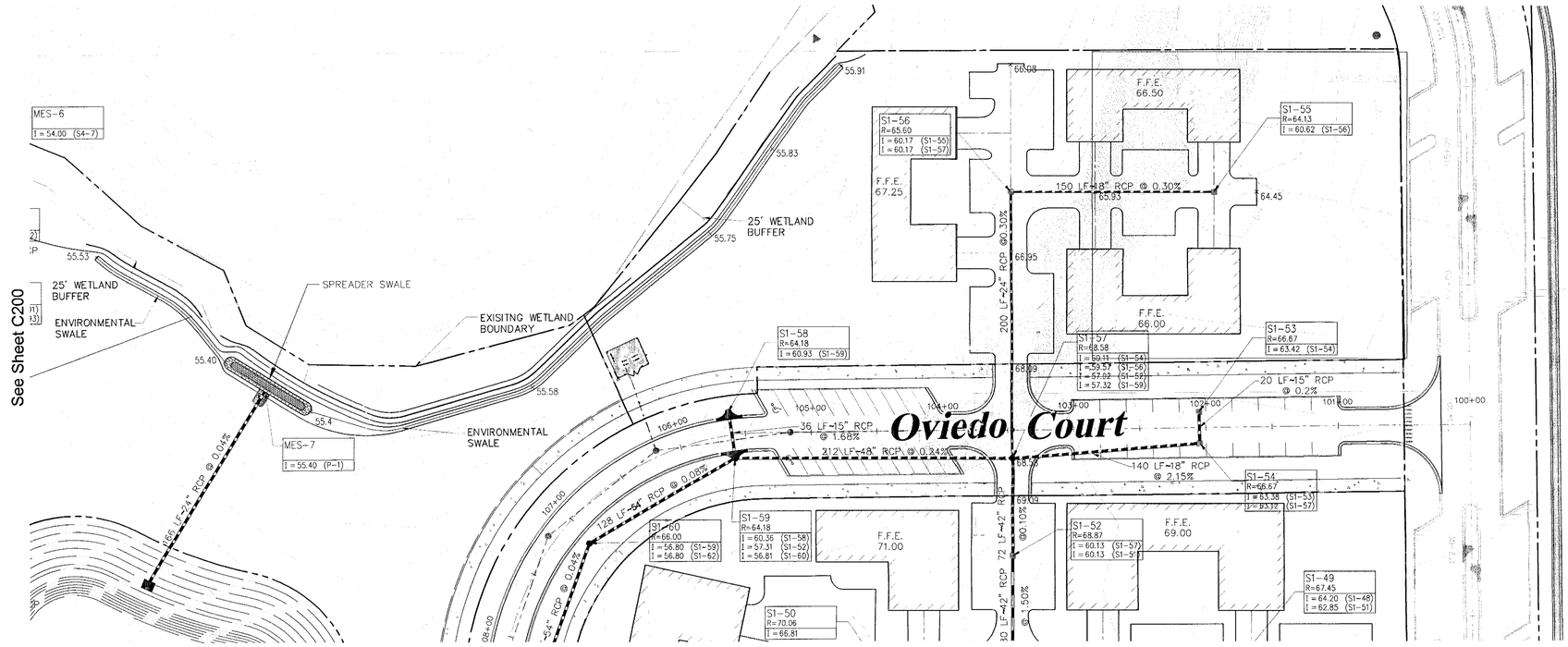
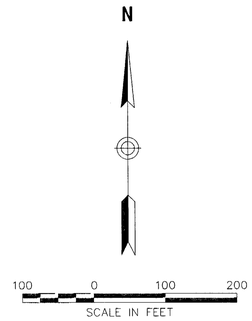


See Sheet C201



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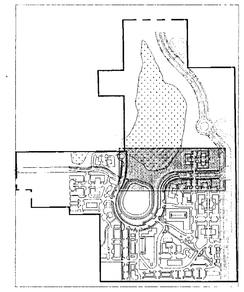

No	Revision	Date	Apprvd

Designed by LYL	Drawn by JLG	Checked by JRB	
CAD checked by MT		Approved by JRB	
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Project Title

Oviedo on the Park

Oviedo, Florida

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104169 1X

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MAR 07 2006
[illegible]
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Drawing Title

Grading & Drainage Plan

[illegible] Vasilas, II, PE
MAR 03 2006
Florida PE #54590

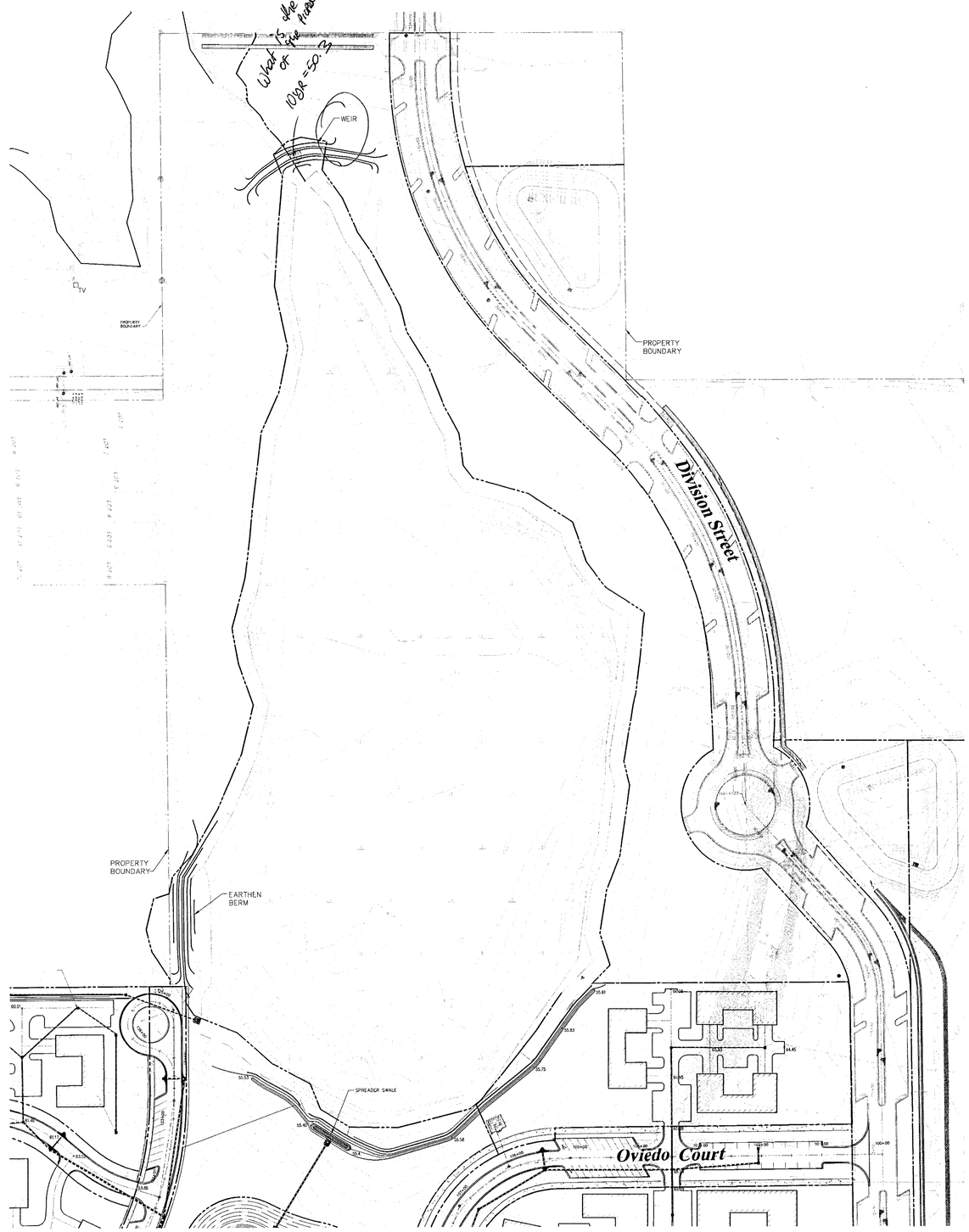
Drawing Number

C202

Sheet of

Project Number
60972.00

60972-GD.DWG



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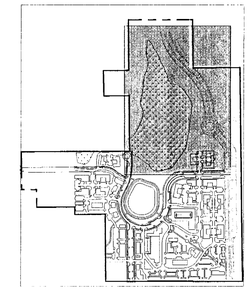
Key Map



N

100 0 100 200
SCALE IN FEET

No	Revision	Date	Appvd

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CAD checked by MT		Approved by JRB	
Scale 1"=100'		Date 01/20/06	

Project Title

Oviedo on the Park

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Drawing Title

Grading & Drainage Plan

JAMES R. BAYSINGER II, PE
Mar 03 2006
Florida PE #54590

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C203

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Project Number
60972.00

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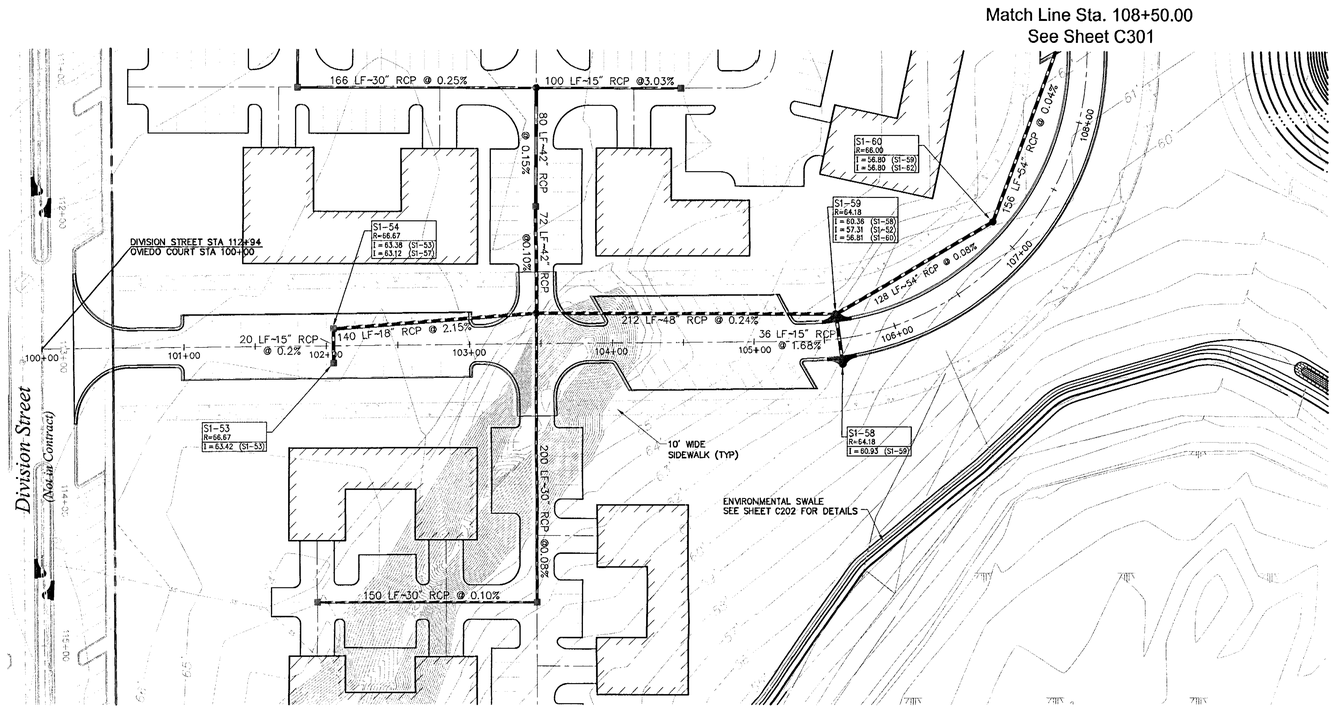

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HORIZONTAL
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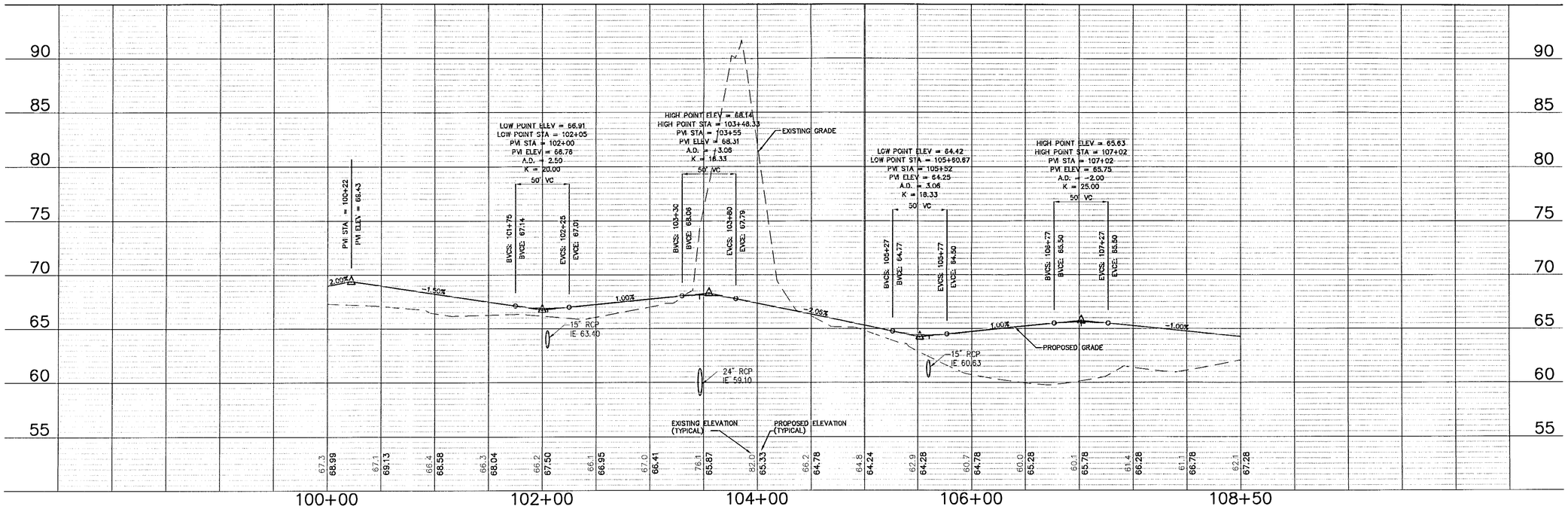
5 0 5 10
VERTICAL
SCALE IN FEET

Oviedo Court



Drainage Structure Chart

Structure	Station	Offset
S1-53	102+05.0	12.0 R
S1-54	102+05.0	12.0 L
S1-58	105+60.0	17.5 R
S1-59	105+60.0	17.5 L
S1-60	107+05.0	21.9 L

No.	Revision	Date	Appvd.

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Project Title

Oviedo on the Park

Oviedo, Florida

Issued for

SJRWMD

Drawing Title

Oviedo Court
Sta. 100+00.00 to
Sta. 108+50.00

Drawing Number
C300
Sheet of
Project Number
60972.00

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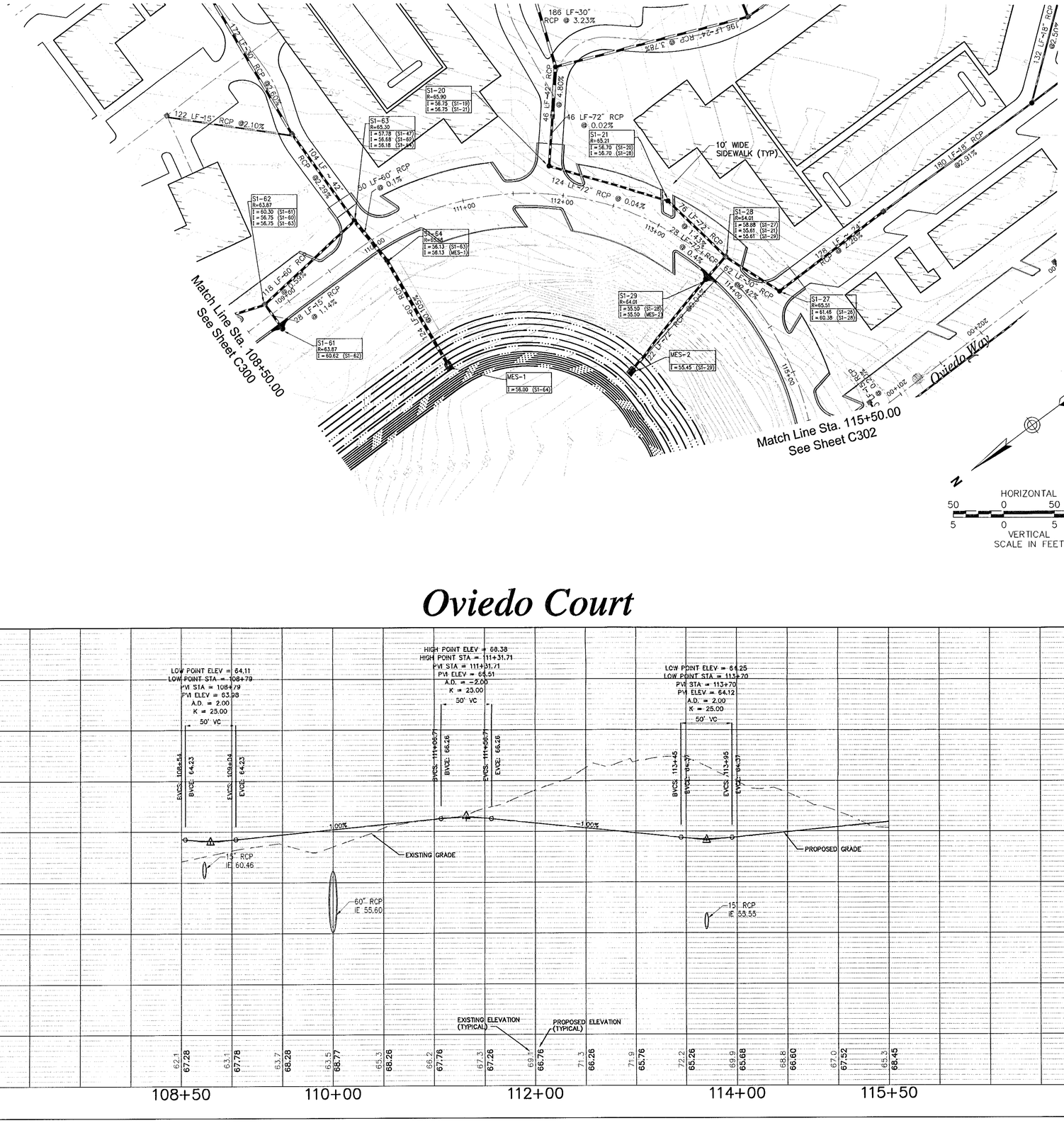
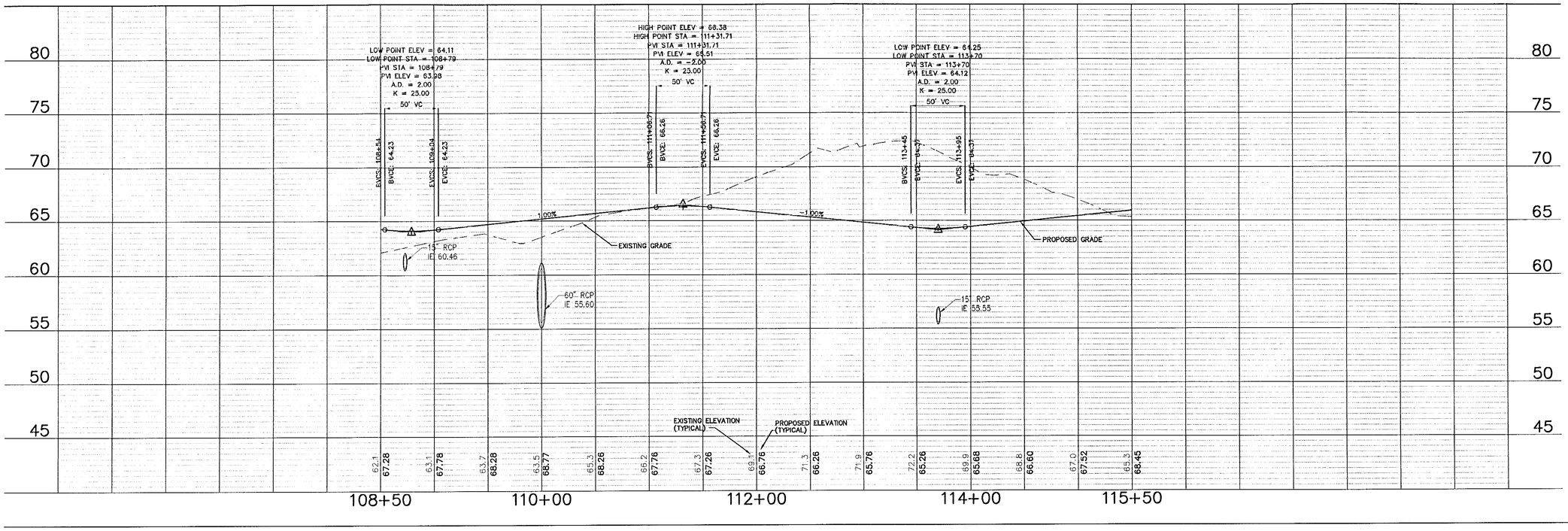


Oviedo Court



Drainage Structure Chart

Structure	Station	Offset
S1-61	108+79.0	17.5 R
S1-62	108+79.0	12.0 L
S1-63	110+00.0	25.2 L
S1-64	110+00.0	25.5 R
S1-20	111+84.0	27.8 L
S1-21	112+97.5	25.6 L
S1-28	113+70.0	12.0 L
S1-29	113+70.0	17.5 R
S1-27	114+27.5	28.0 L
MES-1	109+94.0	149.0 R
MES-2	113+78.0	138.5 R

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Project Title

Oviedo on the Park

Oviedo, Florida

Issued for

SJRWMD

Drawing Title

Oviedo Court
Sta. 108+50.00 to
Sta. 115+50.00

James R. Bysinger, II, PE
MAY 03 2006
License PE #54559

Drawing Number
C301
Sheet of
Project Number
60972.00

60972-PLPR-OVIEDO COURT.DWG

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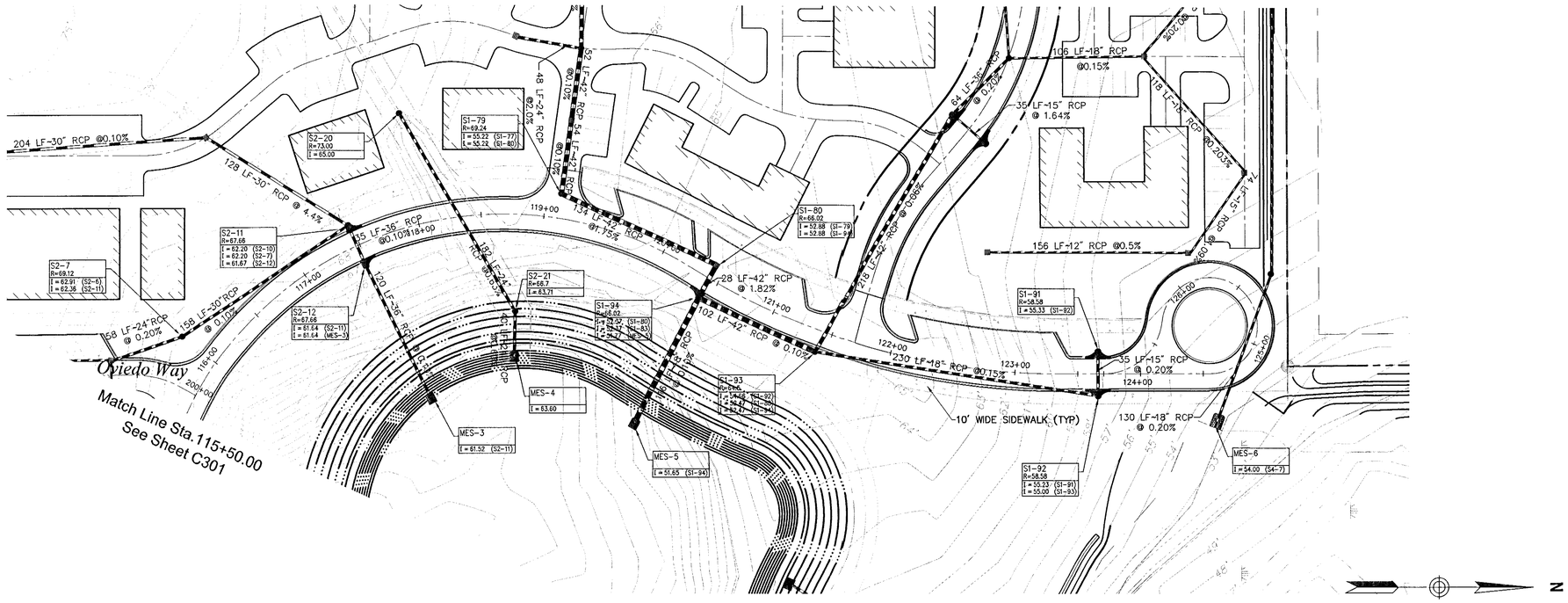
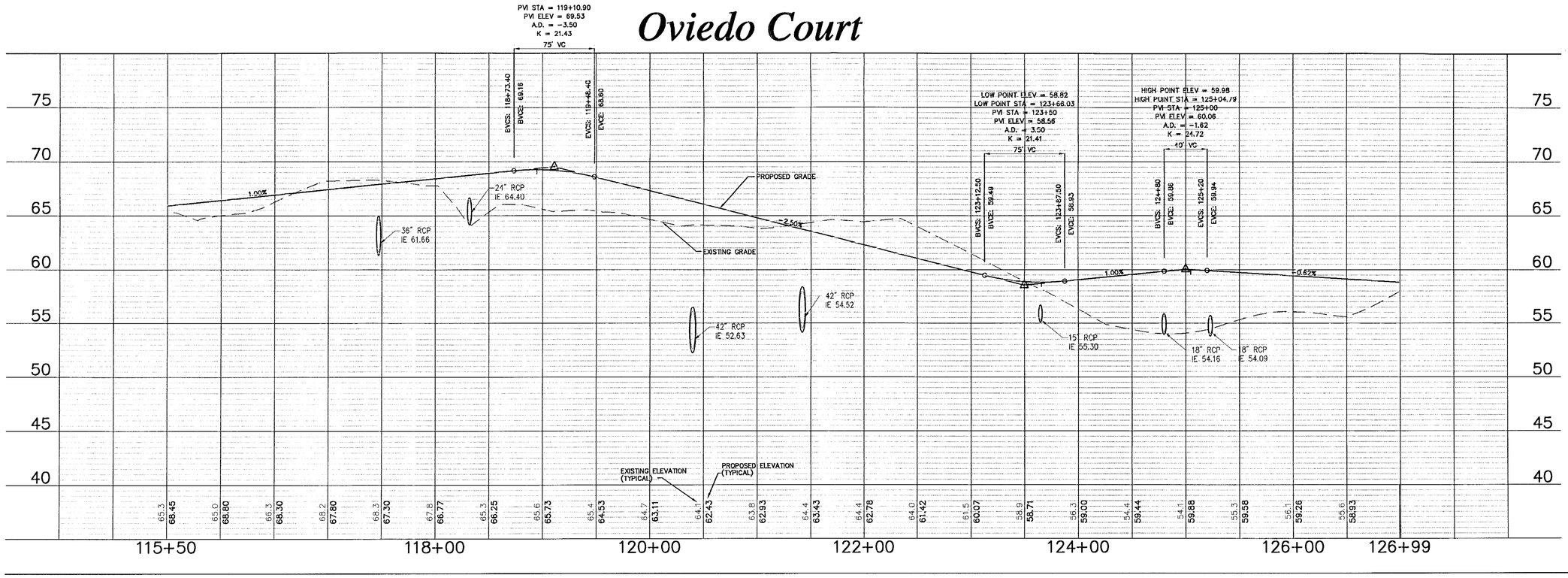


Oviedo Court



Drainage Structure Chart

Structure	Station	Offset
S2-7	116+01.0	33.5 L
S2-11	117+47.5	17.5 L
S2-12	117+47.5	17.5 R
S2-20	118+04.0	89.0 L
S2-21	118+81.0	76.5 R
S1-79	119+11.1	19.5 L
S1-80	120+42.2	12.0 L
S1-94	120+42.2	17.5 R
S1-93	121+41.3	17.2 R
S1-92	123+66.0	17.5 R
S1-91	123+66.0	17.5 L
MES-3	117+56.6	138.2 R
MES-4	118+87.7	116.5 R
MES-5	120+46.6	133.9 R
MES-6	124+59.0	43.3 R

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Project Title

Oviedo on the Park

Oviedo, Florida

Issued for

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Drawing Title

Oviedo Court
Sta. 115+50.00 to
Sta. 126+99.00

James R. Boysinger, II, PE
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Florida PE #54599

Drawing Number
C302
Sheet of
Project Number
60972.00

60972-PLPR-OVIEDO COURT.DWG

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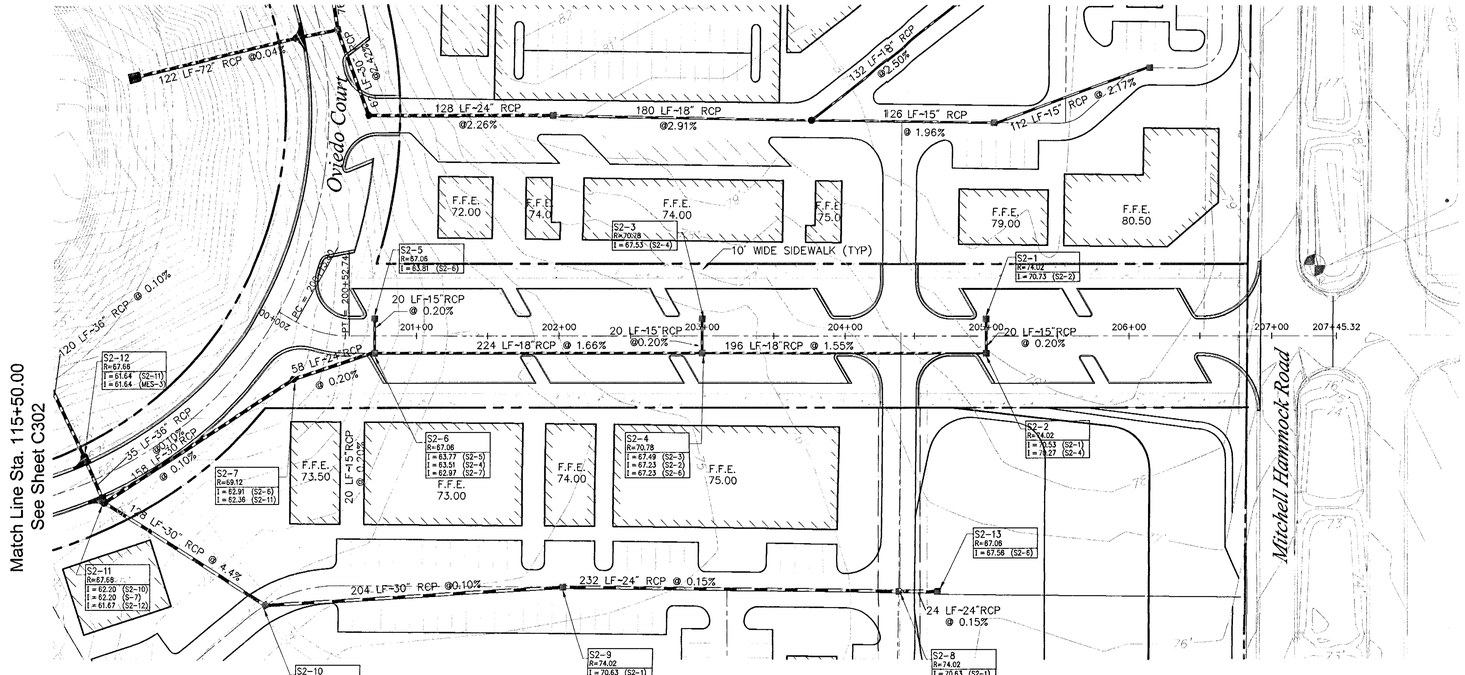
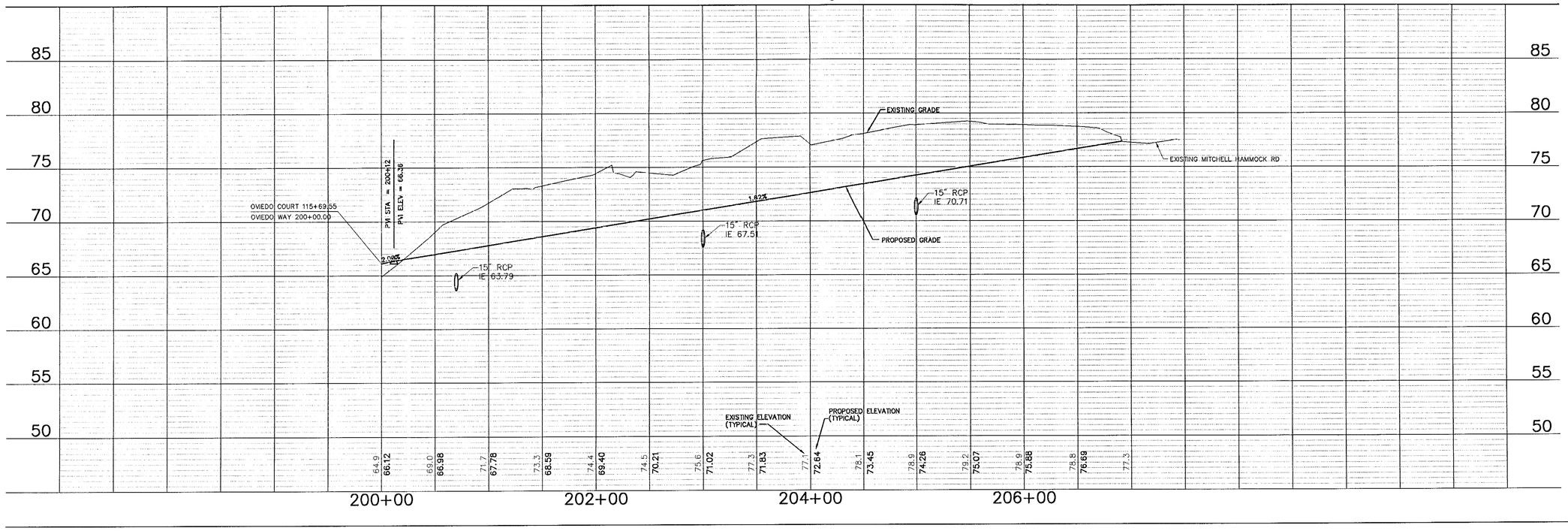


Oviedo Way



Drainage Structure Chart

Structure	Station	Offset
S2-1	205+00.0	12.0 L
S2-2	205+00.0	12.0 R
S2-3	203+00.0	12.0 L
S2-4	203+00.0	12.0 R
S2-5	200+70.0	37.1 L
S2-6	200+70.0	37.1 R
S2-7	200+26.0	37.1 R
S2-8	204+37.6	177.6 R
S2-9	202+02.2	175.0 R
S2-10	200+36.1	193.4 R
S2-13	204+65.6	177.9 R

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EB-3932

No.	Revision	Date	Appvd.

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CAD checked by MT | Approved by JRB
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Project Title

Oviedo on the Park

Oviedo, Florida

Issued for

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Drawing Title

Oviedo Way
Sta. 200+00.00 to
Sta. 207+45.32

James R. Brysinger, II, PE
MAR 03 2006
Florida PE #54590

Drawing Number
C303
Sheet of
Project Number
60972.00

60972-PLPR-OVIEDO WAY.DWG

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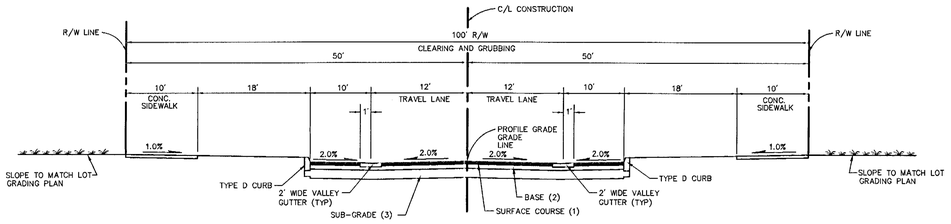
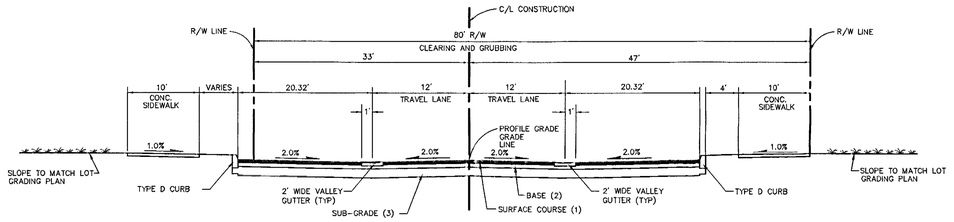


Ⓐ ROAD SECTION

(1) MIN 1¾" TYPE SIII
(2) MIN 8" LIMEROCK BASE, COMPACTED TO 98% MAXI DENSITY UNDER AASHTO T-180
(3) MIN 12" COMPACTED SUBGRADE TO 98% MAXI DENSITY UNDER AASHTO T-180 TO FBV 75



Ⓑ ROAD SECTION

(1) MIN 1¾" TYPE SIII
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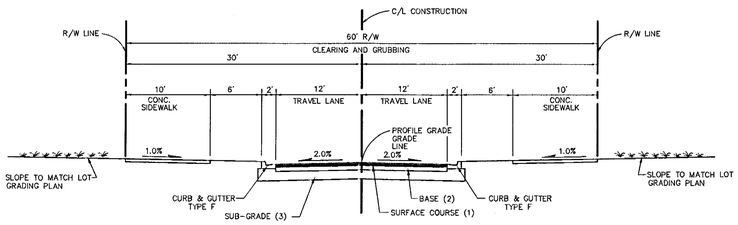
(3) MIN 12" COMPACTED SUBGRADE TO 98% MAXI DENSITY UNDER AASHTO T-180 TO FBV 75



Ⓒ ROAD SECTION

(1) MIN 1¾" TYPE SIII
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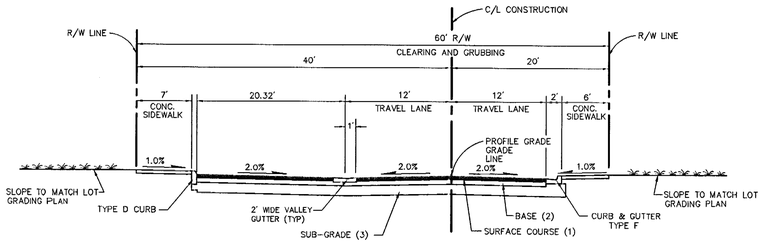
(3) MIN 12" COMPACTED SUBGRADE TO 98% MAXI DENSITY UNDER AASHTO T-180 TO FBV 75



Ⓓ ROAD SECTION

(1) MIN 1¾" TYPE SIII
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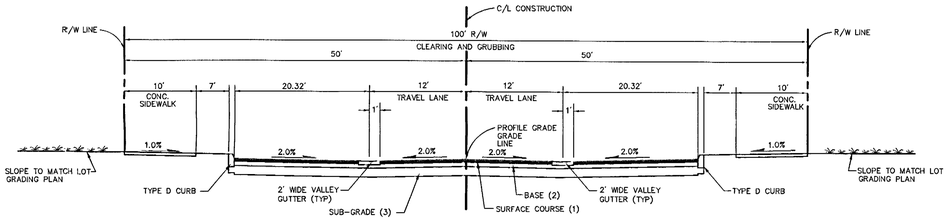
(3) MIN 12" COMPACTED SUBGRADE TO 98% MAXI DENSITY UNDER AASHTO T-180 TO FBV 75



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No.	Revision	Date	Appvd.

Designed by L.Y.L. | Drawn by J.L.G. | Checked by J.R.B.
CAD checked by M.T. | Approved by J.R.B.
Scale N.T.S | Date 01/20/06

Project Title

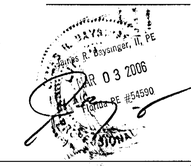
Oviedo on the Park

Oviedo, Florida
Issued for

SJRWMD

Drawing Title

Site Details



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C400

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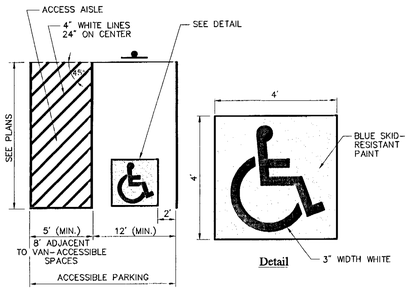
60972-DT-SITE.DWG

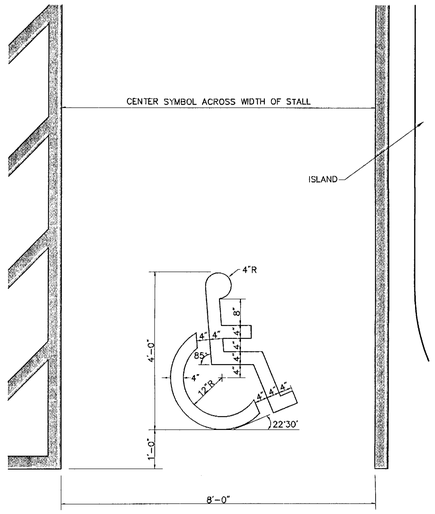


Notes:

1. ALL DIMENSIONS TO EDGES OF 4" PAVEMENT STRIPING.
2. ALL STRIPING SHALL BE 4" WIDE SOLID WHITE PAVEMENT MARKINGS UNLESS OTHERWISE NOTED.
3. 8' STALL WIDTH REFERS TO 8' CLEAR BETWEEN INSIDE EDGES OF PAVEMENT MARKINGS.

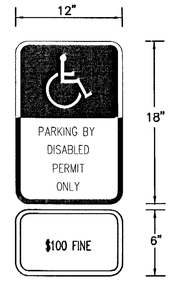
Accessible Parking Space

N.T.S. Source: VHB REV LD_552 6/03



Accessible Parking Space Symbol

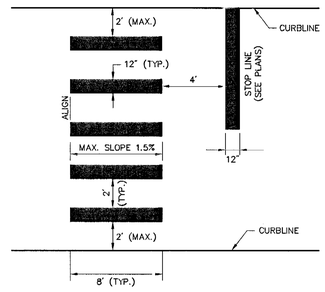
N.T.S. Source: VHB REV LD_552a 6/03



1. All letters are 1" series "c" per m.u.t.c.d.
2. Top portion of sign shall have reflectorized (engineering grade) blue background with white reflectorized legend and border.
3. Bottom portion of sign shall have a reflectorized (engineering grade) with background with black opaque legend and border.
4. Fine notification sign shall have a reflectorized (engineering grade) white background with black opaque legend & border.
5. One (1) sign required for each parking space.
6. Installation height of sign shall be in accordance with section 24-23 of the manual on uniform traffic control (m.u.t.c.d.)

Accessible Details

N.T.S. Source: VHB



Notes:

1. TWELVE INCH (12") LINES SHALL BE APPLIED IN ONE APPLICATION, NO COMBINATION OF LINES (TWO – 6 INCH LINES) WILL BE ACCEPTED.
2. LONGITUDINAL CROSSWALK LINES TO BE PARALLEL TO CURBLINE.
3. ALL LONGITUDINAL CROSSWALK LINES TO BE THE SAME LENGTH AND PROPERLY ALIGNED.
4. CROSS WALK SIDESLOPE SHALL NOT EXCEED 1.5%.

Crosswalk

N.T.S. Source: VHB REV LD_553 6/03

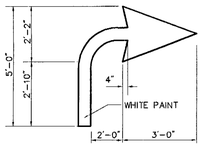
VHB 20

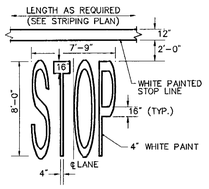
Vanasse Hangen Brustlin, Inc.

Transportation
Land Development
Environmental Services

135 West Central Boulevard, Suite 800
Orlando, Florida 32801-2746
407 839 4006 • FAX 407 839 4008

EB-3932



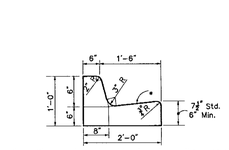


Notes:

1. PAVEMENT MARKINGS TO BE INSTALLED FOR ON SITE WORK IN LOCATIONS SHOWN.

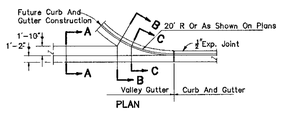
Painted Pavement Markings - On Site

N.T.S. Source: VHB LD_554 6/03

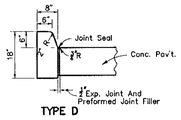


*Note: When used on high side of roadways, the cross slope of the gutter shall match the cross slope of the adjacent pavement the thickness of the lip shall be 6", unless otherwise shown on plans.

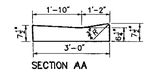
TYPE F



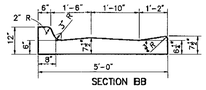
PLAN



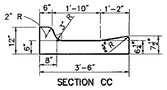
TYPE D



SECTION AA



SECTION BB



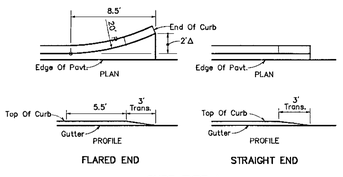
SECTION CC
VALLEY GUTTER

GENERAL NOTES

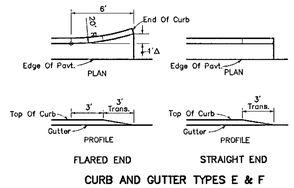
1. For curb, gutter, curb and gutter and traffic separators provide ½" – ¼" contraction joints at 10' centers (max.). Contraction joints adjacent to concrete pavement on tangents and flat curves are to match the pavement joints, with intermediate joints not to exceed 10' centers.
2. Ends of Curbs Types B and D shall transition from full to zero heights in 3 feet.

Curb Types

N.T.S. FDOT Index No. 300

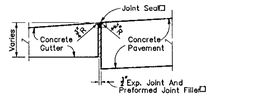


CURB TYPE A



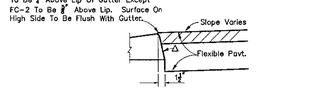
CURB AND GUTTER TYPES E & F

CURB AND GUTTER ENDINGS



□ Applies to both high and low sides of pavement, low side shown.

EXPANSION JOINT BETWEEN GUTTER AND CONCRETE PAVEMENT



Δ Applies to both high and low sides of pavement, low side shown.

CURB AND GUTTER AND TYPE A CURB ADJACENT TO FLEXIBLE PAVEMENT

No.	Revision	Date	Appvd.

Designed by LYL | Drawn by JLG | Checked by JRB
CAD checked by MT | Approved by JRB
Scale N.T.S | Date 01/20/06
Project Title

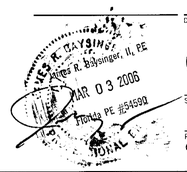
Oviedo on the Park

Oviedo, Florida
Issued for

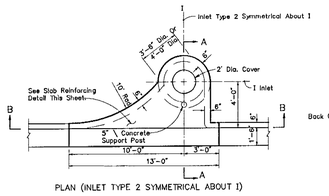
SJRWMD

Drawing Title

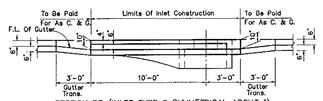
Site Details



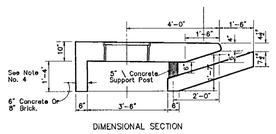
Drawing Number
C401
Sheet of
Project Number
60972.00



PLAN (INLET TYPE 2 SYMMETRICAL ABOUT ℄)

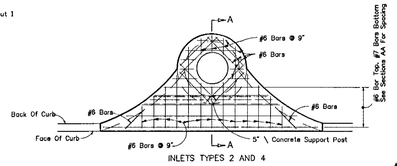


SECTION BB (INLET TYPE 2 SYMMETRICAL ABOUT ℄)



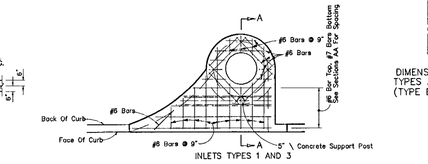
DIMENSIONAL SECTION

INLETS TYPES 1 AND 2

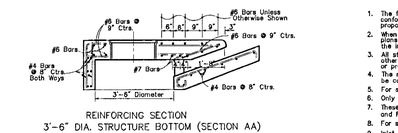


INLETS TYPES 2 AND 4

SLAB REINFORCING

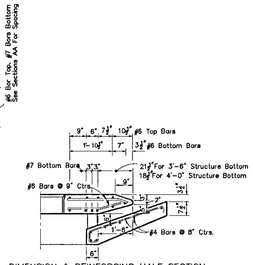


INLETS TYPES 1 AND 3



REINFORCING SECTION
3'-6" DIA. STRUCTURE BOTTOM (SECTION AA)

TRANSVERSE SECTIONS FOR INLETS TYPES 1 & 2



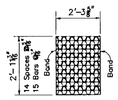
DIMENSION & REINFORCING HALF SECTION
TYPES A & E CURB (HALF SECTION AA)
(TYPE E GUTTER SHOWN)

GENERAL NOTES

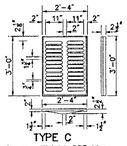
1. The finished grade and slope of the inlet tops are to conform with the finished cross slope and grade of the proposed sidewalk and/or border.
2. When inlets are to be constructed on a curve, refer to the plans to determine the radius and, where necessary, modify the inlet details accordingly. Bend steel when necessary.
3. All steel in inlet top shall have 1½" minimum cover unless otherwise shown. Inlet tops shall be either cast-in-place or precast concrete.
4. The rear wall portion of inlet tops Types 1, 2, 3 & 4 may be constructed with brick. Dowels to top slab required.
5. For supplemental details see FDOT Index No. 201.
6. Only round concrete support post will be acceptable.
7. These inlets are to be used with Curb and Gutter Types E and F. Locate outside of pedestrain crosswalk where practical.
8. For structure bottoms see FDOT Index No. 200.
9. Inlet to be paid for under the contract unit price for Inlets (Curb) (Type—), Each.

N.T.S.

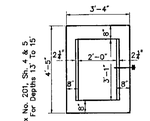
FDOT 210



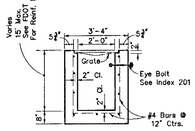
TYPE C
Straight Bars 2'-3"
Reticuline Bars 1½" x ⅛"
Bands 1½" x 1"
Approx. Weight 100 Lbs.



TYPE C
Approx. Weight 235 Lbs.



PLAN



SECTION
TYPE C
Recommended Maximum Pipe Size:
2'-0" Wall-18" Pipe
3'-1" Wall-24" Pipe

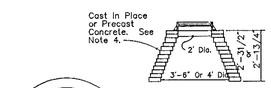
GENERAL NOTES

1. These inlets are suitable for bicycle and pedestrian areas and are to be used in ditches, medians and other areas subject to infrequent traffic loadings but are not to be placed in areas subject to any heavy wheel loads.
2. Inlets subject to minimal debris should be constructed without slots. Where debris is a problem inlets should be constructed with slots. Slotted inlets located within roadway clear zones and in areas accessible to pedestrians shall have traversable slots. The traversable slot modification is not adaptable to inlet Type H. Slots may be constructed at either or both ends as shown on plans.
3. Steel grates are to be used on all inlets where bicycle traffic is anticipated. Steel grates are to be used on all inlets with traversable slots. Either cast iron or steel grates may be used on inlets without slots where bicycle traffic is not anticipated. Either cast iron or steel grates may be used on all inlets with non-traversable slots. Subject to the selection described above, when Alternate G grate is specified in the plans, either the steel grate, hot dipped galvanized after fabrication, or the cast iron grate may be used, unless the plans stipulate the particular type.
4. Recommended maximum pipe sizes shown are for concrete pipe. Pipe sizes larger than those recommended must be checked for fit.
5. All exposed corners and edges of concrete are to be chamfered ¾".
6. Pavement to be used on inlets without slots and inlets with non-traversable slots only when called for in the plans; but required on all traversable slot inlets. Cost to be included in contract unit price for inlets. Quantities shown are for information only.
7. Traversable slots constructed in existing inlets shall be paid for as inlets partial, and shall include the cost for slot openings, paving and any required replacement grates.
8. Sodding to be used on all inlets not located in paved areas and paid for under contract unit price for Sodding SY.
9. For supplementary details see FDOT Index No. 201.

Ditch Bottom Inlet - Type C

N.T.S.

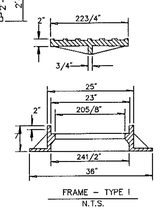
FDOT 232



MANHOLE COVERS
N.T.S.

MANHOLE FRAME & COVER FOR USE IN PRIVATE PROPERTY:

U.S.F. 420G-(S.W.) OR APPROVED EQUAL



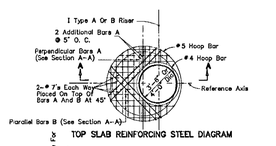
FRAME – TYPE I
N.T.S.

NOTES (TOPS, FRAMES, AND COVER)

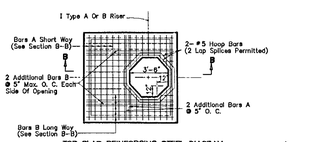
1. ALL STEEL BARS SHALL HAVE 1 1/4" MINIMUM COVER UNLESS OTHERWISE SHOWN AND SHALL BE HOOKED WHERE INDICATED.
2. MANHOLE TOP TYPE 7 SLABS SHALL BE OF CLASS II CONCRETE. CONCRETE AS SPECIFIED IN ASTM C-478 MAY BE USED FOR PRECAST UNITS;SEE GENERAL NOTE NO. 2.
3. MANHOLE TOP TYPE 7 SLABS MAY BE OF CAST-IN-PLACE OR AND IN LIEU OF DOWELS. FRAME AND SLAB OPENINGS ARE TO BE OMITTED WHEN TOP IS USED OVER A JUNCTION BOX.FRAMES CAN BE ADJUSTED WITH FROM ONE TO SIX COURSES OF BRICK.
4. MANHOLE TOP TYPE 8 MAY BE OF CAST-IN-PLACE OR PRECAST PRECAST CONSTRUCTION.THE OPTIONAL KEY IS FOR PRECAST TOPS CONCRETE CONSTRUCTION.FOR CONCRETE CONSTRUCTION,THE CONCRETE AND STEEL REINFORCEMENT SHALL BE THE SAME AS THE SUPPORTING WALL UNIT.AN ECCENTRIC CONE MAY BE USED.
5. MANHOLE TOPS SHALL BE SECURED TO STRUCTURES BY OPTIONAL CONSTRUCTION JOINTS.
6. ALL MANHOLES AND INLET LIDS SHALL BE RATED HEAVY DUTY.

Manhole Frame & Cover

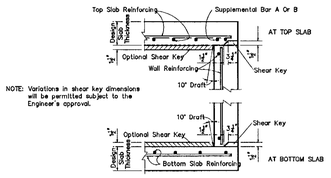
N.T.S.



TOP SLAB REINFORCING STEEL DIAGRAM

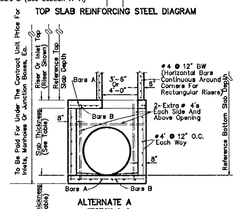


TOP SLAB REINFORCING STEEL DIAGRAM



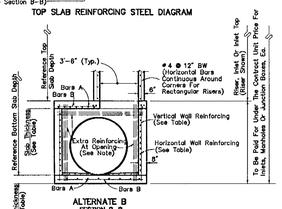
NOTE: Variations in shear key dimensions will be permitted subject to the Engineer's approval.

SLAB TO WALL DETAILS FOR PRECAST ALTERNATE



ALTERNATE A
SECTION A-A

+ NOTE: When the inside diameter of a round structure is not more than 1'-6" larger than the opening in the riser or top slab, the top of the structure or riser shall be constructed according to the "Special Top Slab" details on this sheet.



ALTERNATE B
SECTION B-B

NOTE: Provide extra reinforcing each side of each opening at 3" maximum spacing equal to half the area of vertical reinforcement removed by the opening and provide the same area of reinforcement above each opening at 3" maximum spacing as removed by the opening.

SPECIAL TOP SLAB*

GENERAL NOTES

1. Standard structure bottoms 4'-0" diameter and smaller (Alt. A) and 3'-6" square (Alt. B) are designated Type P. Larger standard structure bottoms are designated Type J. Risers are permitted for all structures.
2. Walls of circular structures (Alternate A) constructed in place may be of non-reinforced concrete or brick or reinforced concrete. Precast and rectangular structures (Alternate B) shall be constructed of reinforced concrete only.
3. Wall thickness and reinforcement are for either reinforced cast-in-place or precast concrete units except that precast circular units may be furnished with walls in accordance with either A.S.T.M. C-478 (up to 96" diameter) or A.S.T.M. C-76, Class ~~V, B Wall, modified where the elliptical steel cage area is placed in the center one-third of the wall.
4. Top and floor slab thickness and reinforcement are for precast and cast in place construction. Top and floor slabs shall be of Class ~~ concrete. Concrete as specified in A.S.T.M. C-478 (4000 psi) may be used in lieu of Class ~~ and Class ~~ concrete in precast items manufactured in plants which are under the 'Standard Operating Procedures' for the inspection of precast drainage products.
5. All reinforcement shall be A.S.T.M. A615, Grade 60 or 65 KSI welded wire fabric, either smooth or deformed.
6. Structure bottoms may be used in conjunction with curb inlet tops Types 1, 2, 3, 4, 5, 6, 9, and 10, and any manhole or junction box unless otherwise shown in the plans or other standard drawings. Alt. B structure bottoms may be used in conjunction with curb inlet Types 7 & 8, or any ditch bottom inlet unless otherwise shown in the plans or other standard drawings.
7. Rectangular structures may be rotated as directed by the Engineer in order to facilitate connections between the structure walls and storm sewer pipes.
8. Except when AGI hooks are specifically required, embedment hooks in the top and bottom slabs may be replaced with straight embedments or peripheral reinforcement in accordance with the reinforcement detail shown under 'Rebar Straight End Embedment Or Peripheral Reinforcement In Lieu of AGI Standard Hooks For Top And Bottom Slabs', Index No. 201, Sheet 3 of 6.
9. All steel bars shall have 1" minimum cover unless otherwise shown. Horizontal steel in rectangular structures shall be lapped a minimum of 24 bar diameters at corners.
10. The corner fillets shown are necessary for rectangular structures used with circular risers and inlet throats and used on skew with rectangular risers, inlet and inlet throats. Fillets will be required in lieu of the bottom slab of the Alt. B riser when used with the Alt. A box. Each fillet shall be reinforced with 2– #5 bars.
11. Inlet throats, riser or manhole tops shall be secured to structures as shown on Index No. 201.
12. Structures with depths over 14' are to be checked for flotation by designer of project drainage.
13. Units larger than specified standard may be substituted at the contractor's option when these units will not cause or increase the severity of utility conflicts. Such larger units shall be furnished at no additional cost to the Department. Larger Alternate A units cannot replace Alternate B units without approval of the Engineer. This note applies to this Index only.
14. For manhole and junction box tops, for frames and covers, and, for supplementary details see Index No. 201.

Structure Bottoms - Type J & P

N.T.S.

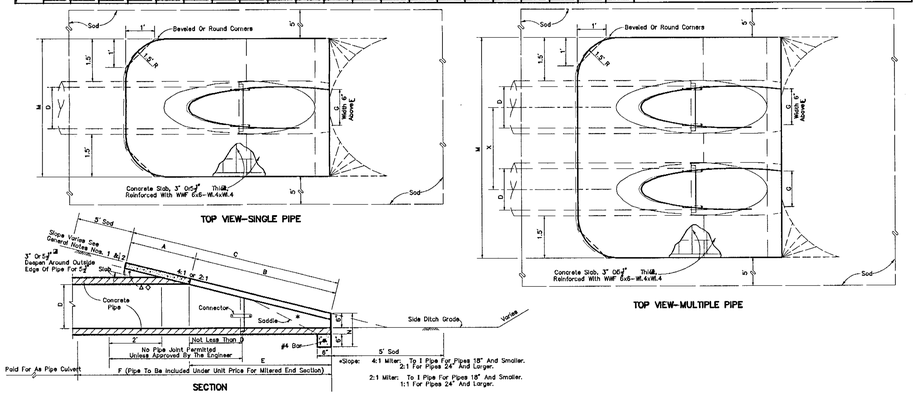
FDOT INDEX 200

DIMENSIONS AND QUANTITIES

	D	X	A	B	C	E	F	G	M Single Pipe	M Double Pipe	M Triple Pipe	M Quad. Pipe	N	5½" CONCRETE SLAB (CY) ▣ Single Pipe	5½" CONCRETE SLAB (CY) ▣ Double Pipe	5½" CONCRETE SLAB (CY) ▣ Triple Pipe	5½" CONCRETE SLAB (CY) ▣ Quad. Pipe	SODDING (SQ. YDS.) Single Pipe	SODDING (SQ. YDS.) Double Pipe	SODDING (SQ. YDS.) Triple Pipe	SODDING (SQ. YDS.) Quad. Pipe
2:1 Slope	18"	1'-6"	1'-9"	2'-10"	4'-10"	2'-6"	8"	1'-10"	2'-9"	3'-10"	4'-10"	5'-9"	1'-0"	0.28	0.48	0.67	0.86	23	35	46	58
	24"	2'-0"	1'-9"	3'-2"	5'-0"	2'-6"	8"	2'-2"	3'-0"	4'-2"	5'-4"	6'-6"	1'-0"	0.32	0.53	0.74	0.95	25	38	51	64
	30"	2'-6"	1'-9"	3'-6"	5'-6"	2'-6"	8"	2'-6"	3'-3"	4'-6"	5'-9"	7'-0"	1'-0"	0.36	0.59	0.82	1.05	28	42	56	70
	36"	3'-0"	1'-9"	3'-10"	6'-2"	2'-6"	8"	2'-10"	3'-6"	4'-10"	6'-2"	7'-6"	1'-0"	0.40	0.65	0.90	1.15	31	46	61	76
	42"	3'-6"	1'-9"	4'-2"	6'-8"	2'-6"	8"	3'-2"	3'-9"	5'-2"	6'-7"	8'-0"	1'-0"	0.44	0.71	0.98	1.25	33	50	67	83
	48"	4'-0"	1'-9"	4'-6"	7'-2"	2'-6"	8"	3'-6"	4'-0"	5'-6"	7'-0"	8'-6"	1'-0"	0.48	0.77	1.06	1.35	36	54	72	90
	54"	4'-6"	1'-9"	4'-10"	7'-8"	2'-6"	8"	3'-10"	4'-3"	5'-10"	7'-5"	9'-0"	1'-0"	0.52	0.83	1.14	1.45	39	58	77	96
	60"	5'-0"	1'-9"	5'-2"	8'-2"	2'-6"	8"	4'-2"	4'-6"	6'-2"	7'-10"	9'-6"	1'-0"	0.56	0.89	1.22	1.55	42	62	82	102
	66"	5'-6"	1'-9"	5'-6"	8'-8"	2'-6"	8"	4'-6"	4'-9"	6'-6"	8'-3"	10'-0"	1'-0"	0.60	0.95	1.30	1.65	45	66	87	108
	72"	6'-0"	1'-9"	5'-10"	9'-2"	2'-6"	8"	4'-10"	5'-0"	6'-10"	8'-8"	10'-6"	1'-0"	0.64	1.01	1.38	1.75	48	70	92	114
4:1 Slope	18"	1'-6"	2'-3"	4'-0"	6'-0"	3'-6"	8"	1'-10"	3'-9"	5'-0"	6'-3"	7'-6"	1'-0"	0.37	0.62	0.87	1.12	28	45	62	79
	24"	2'-0"	2'-3"	4'-2"	6'-2"	3'-6"	8"	2'-2"	4'-0"	5'-2"	6'-5"	7'-8"	1'-0"	0.41	0.67	0.92	1.18	30	48	66	84
	30"	2'-6"	2'-3"	4'-4"	6'-4"	3'-6"	8"	2'-6"	4'-3"	5'-4"	6'-7"	7'-10"	1'-0"	0.45	0.72	0.98	1.24	32	51	70	89
	36"	3'-0"	2'-3"	4'-6"	6'-6"	3'-6"	8"	2'-10"	4'-6"	5'-6"	6'-9"	8'-0"	1'-0"	0.49	0.77	1.04	1.31	35	54	74	93
	42"	3'-6"	2'-3"	4'-8"	6'-8"	3'-6"	8"	3'-2"	4'-9"	5'-8"	6'-11"	8'-2"	1'-0"	0.53	0.82	1.10	1.38	37	57	77	97
	48"	4'-0"	2'-3"	4'-10"	7'-0"	3'-6"	8"	3'-6"	5'-0"	6'-0"	7'-1"	8'-4"	1'-0"	0.57	0.87	1.16	1.45	40	60	81	101
	54"	4'-6"	2'-3"	5'-0"	7'-2"	3'-6"	8"	3'-10"	5'-3"	6'-2"	7'-3"	8'-6"	1'-0"	0.61	0.92	1.22	1.52	43	63	84	105
	60"	5'-0"	2'-3"	5'-2"	7'-4"	3'-6"	8"	4'-2"	5'-6"	6'-4"	7'-5"	8'-8"	1'-0"	0.65	0.98	1.28	1.59	46	66	87	108
	66"	5'-6"	2'-3"	5'-4"	7'-6"	3'-6"	8"	4'-6"	5'-9"	6'-6"	7'-7"	8'-10"	1'-0"	0.69	1.04	1.34	1.65	49	69	90	111
	72"	6'-0"	2'-3"	5'-6"	7'-8"	3'-6"	8"	4'-10"	6'-0"	6'-8"	7'-9"	9'-0"	1'-0"	0.73	1.10	1.40	1.71	52	73	93	114

▣ See General Note No. 3. See Sheet 5 Of 6 For 3" Slab Quantities

B E
Δ 6.42' Δ 6.25' Dimensions permitted to allow use of 8' standard pipe lengths.
◇ 10.40' ◇ 10.10' Dimensions permitted to allow use of 12' standard pipe lengths.
ΔΔ◇◇ Concrete slab shall be deepened to form bridge across crown of pipe. See section below.



Cross Drain Mitered End Section

N.T.S.

FDOT INDEX 272

VHB
Vanasse Hangen Brustlin, Inc.
Transportation
Land Development
Environmental Services
135 West Central Boulevard, Suite 800
Orlando, Florida 32801-2746
407 839 4006 • FAX 407 839 4008
EB-3932

No.	Revision	Date	Appvd.

Designed by LYL | Drawn by JLG | Checked by JRB
CAD checked by MT | Approved by JRB
Scale N.T.S | Date 01/20/06

Project Title

Oviedo on the Park

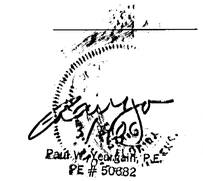
Oviedo, Florida

Issued for

SJRWMD

Drawing Title

Drainage Details



Drawing Number
C500
Sheet of
Project Number
60972.00

60972-DT-DRAIN.DWG

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135 West Central Boulevard, Suite 800
Orlando, Florida 32801-2746
407 839 4006 • FAX 407 839 4008

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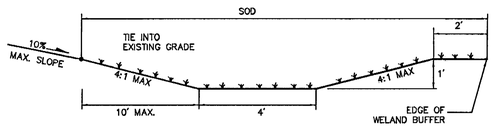
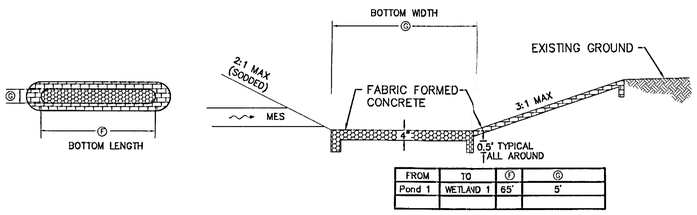


Drainage Swale Section

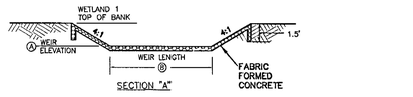
N.T.S.



FROM	TO	Ⓕ	Ⓒ
Pond 1	WETLAND 1	65'	5'

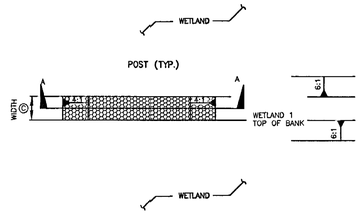
Spreader Swale Detail

N.T.S.



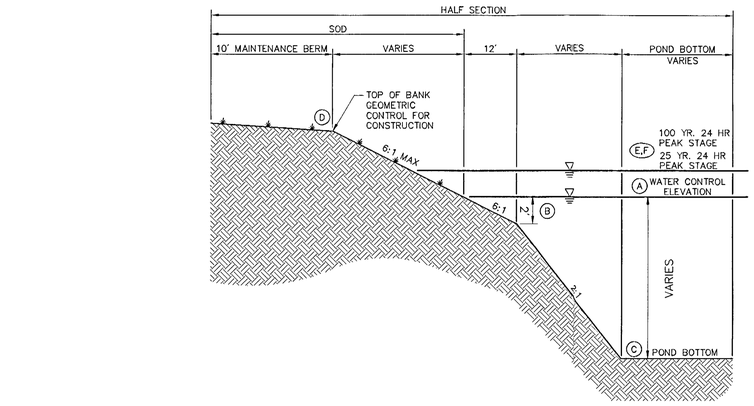
WEIR TABLE

FROM	Ⓐ	Ⓑ	Ⓒ
WETLAND 1	50.2'	5.3'	5'



Trapezoidal Weir Detail

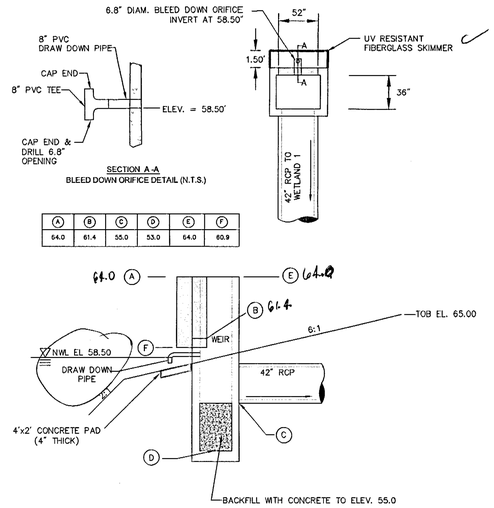
N.T.S.



POND TYPICAL SECTION TABLE						
POND NAME	Ⓐ WATER CONTROL ELEVATION	Ⓑ ELEVATION GRADE BREAK	Ⓒ BOTTOM ELEVATION	Ⓓ TOP OF BANK	Ⓔ 100 YR. 24 HR DESIGN PEAK STAGE	Ⓕ 25 YR. 24 HR DESIGN PEAK STAGE
Pond 1	58.5	56.5	50.5	65.0	64.9	64.05
Pond 2	57.0	55.0	49.0	63.0	62.3	61.93

Pond Typical Section - No Liner

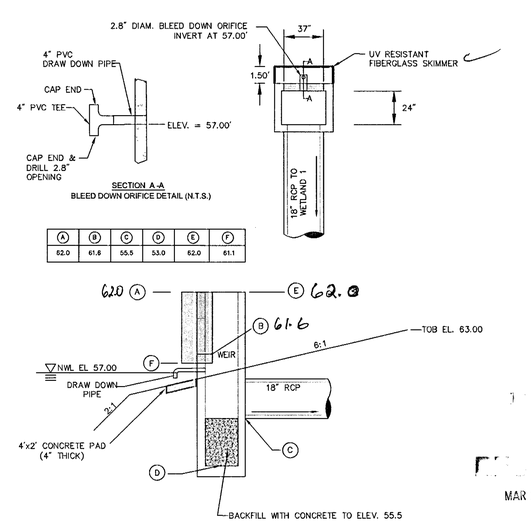
N.T.S.



Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ
64.0	61.4	55.0	53.0	64.0	60.9

Outfall Structure - Pond 1 (P1WET1)

N.T.S.



Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ
62.0	61.6	55.5	53.0	62.0	61.1

Outfall Structure - Pond 2 (P2WET1)

N.T.S.

No.	Revision	Date	Appvd.

Designed by LYL | Drawn by JLG | Checked by JRB
CAD checked by MT | Approved by JRB
Scale N.T.S | Date 01/20/06
Project Title

Oviedo on the Park

Oviedo, Florida
Issued for

SJRWMD

Drawing Title

Pond Cross Sections & Outfall Structure Details

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Drawing Number
C501
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Project Number
60972.00

3/1/06
Paul W. Yeargain, P.E.
PE # 50682