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# SITE CONSTRUCTION DRAWINGS FOR ORMOND CENTRAL

SECTION 41, TOWNSHIP 14 S, RANGE 32 E  
41-14-32-01-09-0180, 41-14-32-01-09-0170, 41-14-32-01-11-0130 AND 41-14-32-01-11-0120  
1 S OLD KINGS RD  
ORMOND BEACH, FL 32174  
APRIL 2016



## PROJECT TEAM

APPLICANT / OWNER:	ORMOND CENTRAL INVESTORS, LLC 1185 WEST GRANADA BOULEVARD, SUITE 12 ORMOND BEACH, FL 32174 PHONE: (386) 677-7617 EMAIL: HOLUBDEV@AOL.COM
CIVIL ENGINEER/ PROJECT MANAGER:	NEWKIRK ENGINEERING, INC. 1370 NORTH US HIGHWAY 1, SUITE 204 ORMOND BEACH, FLORIDA 32174 PHONE: (386) 290-7599 EMAIL: HARRY@NEWKIRK-ENGINEERING.COM
SURVEYOR:	A1A GEO, INC. 1370 NORTH US HIGHWAY 1, SUITE 204 ORMOND BEACH, FL 32174 PHONE: (386) 405-6797 EMAIL: A1AGEOINC@GMAIL.COM
LANDSCAPE ARCHITECT:	RICHARD L. POORE, LA 300 GATEWOOD COURT ORMOND BEACH, FL 32174 PHONE: (386) 212-8491 EMAIL: THEPOORES@BELLSOUTH.NET
GEOTECHNICAL:	UNIVERSAL ENGINEERING SCIENCES 911 BEVILLE ROAD, SUITE 3 SOUTH DAYTONA BEACH, FL 32119 PHONE: (386) 756-1105 FAX: (386) 760-4067 EMAIL: BPOHL@UNIVERSALENGINEERING.COM
ENVIRONMENTAL:	ECOLOGICAL CONSULTING SOLUTIONS, INC. 235 HUNT CLUB BOULEVARD, SUITE 202 LONGWOOD, FL 32779 PHONE: (407) 869-9434 EMAIL: BGRIFY@ECSFL.CC

## CONTACT NUMBERS

PLANNING & BUILDING - CITY OF ORMOND BEACH (386) 673-3238  
WATER - CITY OF ORMOND BEACH UTILITY DEPARTMENT (386) 676-3269  
WASTEWATER - CITY OF ORMOND BEACH UTILITY DEPARTMENT (386) 676-3239  
GAS - TECO PEOPLES GAS - (386) 672-2232  
ELECTRIC - FLORIDA POWER & LIGHT (386) 257-7502  
TELEPHONE/CABLE - AT&T (386) 254-8550



## PROJECT STATEMENT

PROPOSE A FOUR (4) UNIT, 8.752 ACRE COMMERCIAL DEVELOPMENT. SITE WORK WILL CONSIST OF TWO (2) DRIVEWAY STUBOUTS ON GRANADA BOULEVARD, ONE (1) DRIVEWAY STUBOUT ON OLD KINGS ROAD, TURN LANE IMPROVEMENTS ON GRANADA BOULEVARD, CLEARING AND GRADING FOR FOUR (4) PAD READY UNIT LOTS, MASTER WET DETENTION POND AND LOOPED WATER MAIN FOR FIRE PROTECTION.

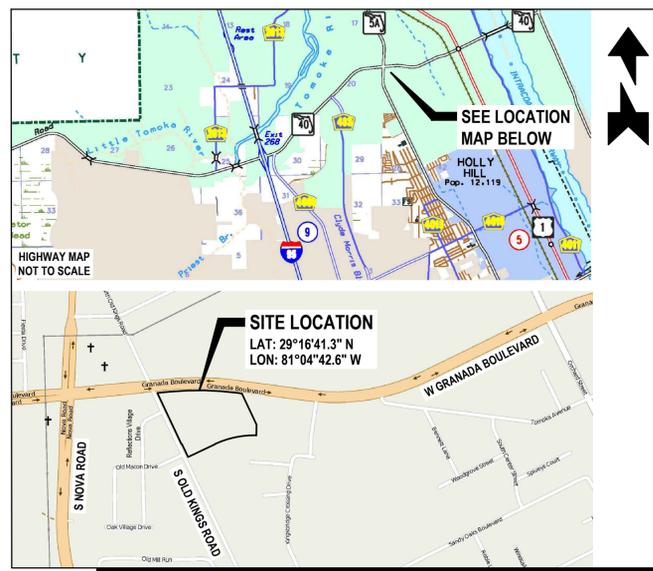
## JURISDICTIONAL AGENCY

## PERMIT No.

CITY OF ORMOND BEACH (DEVELOPMENT ORDER)	.
SJRWD (STORMWATER)	.
FDOT (DRIVEWAY)	.
FDOT (DRAINAGE)	.
FDOT (UTILITY)	.
FDEP (WASTEWATER)	.
FDEP (NOI)	.
VOLUSIA COUNTY HEALTH DEPARTMENT (WATER)	.

THE GENERAL CONTRACTOR SHALL ENSURE THAT ANY SUBCONTRACTOR HAS A COMPLETE SET OF CONSTRUCTION DRAWINGS FOR ITS RESPECTIVE WORK. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR SUBCONTRACTORS ONLY UTILIZING INDIVIDUAL DRAWINGS FOR ITS WORK WHERE ADDITIONAL INFORMATION MAY BE CONTAINED ON OTHER DRAWINGS WITHIN THE SET.

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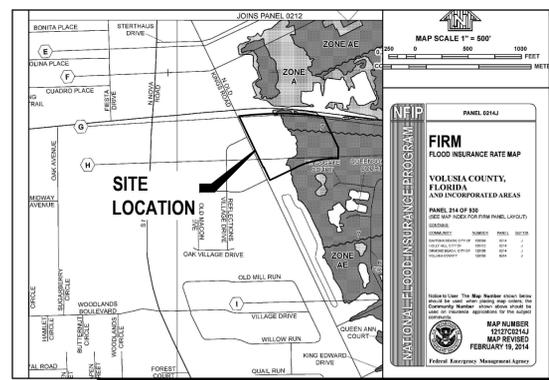
LOCATION MAP

SCALE: 1" = 800'



SITE AERIAL MAP

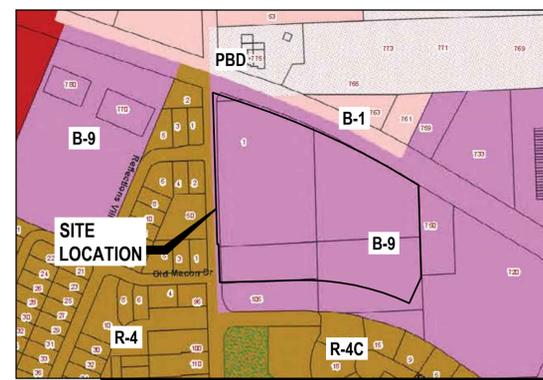
SCALE: 1" = 150'



FLOOD ZONE MAP

SCALE: 1" = 800'

FLOOD ZONES "AE" & "X"



ZONING MAP

SCALE: 1" = 300'

ZONING: B-9 (BOULEVARD)



SOILS MAP

SCALE: 1" = 200'

SOIL TYPE:  
(11) BULW SAND, 0 TO 5 PERCENT SLOPES  
(26) HOLOPAW SAND  
(69) TUSCAWILLA FINE SAND

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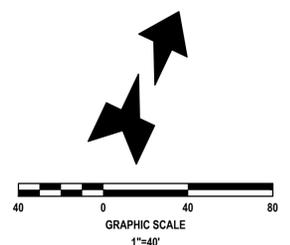
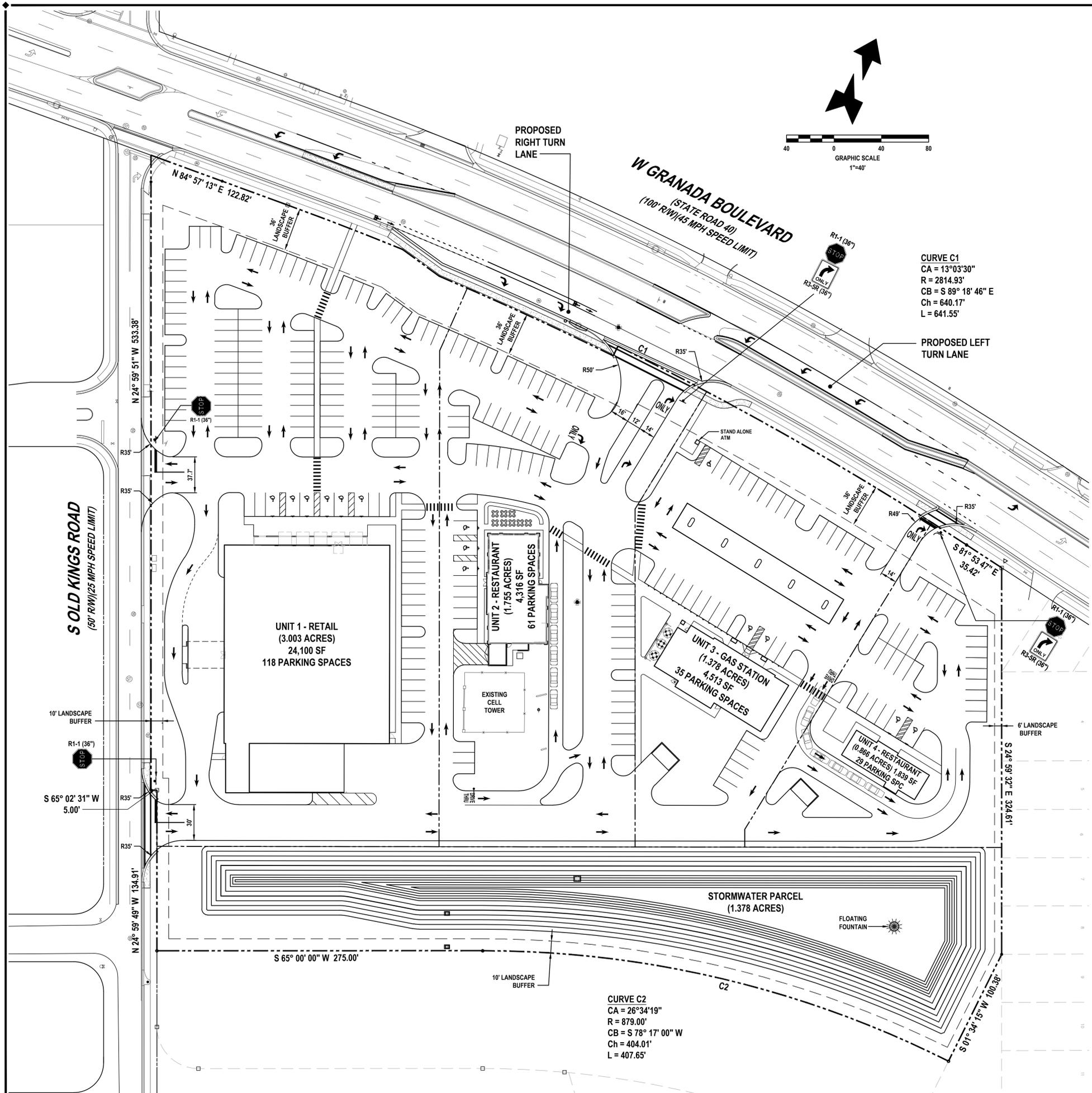
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HARRY NEWKIRK  
LICENSE  
NO. 62971  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER

NOT VALID UNLESS SIGNED AND SEALED

DRAWING NUMBER  
**CV-1**



DEVELOPMENT USAGE TABLE				
PARCEL	AREA ACRES	IMPERVIOUS AREA ACRES (PERCENT)	POND WET AREA ACRES (PERCENT)	PERVIOUS AREA ACRES (PERCENT)
UNIT 1	3.003	2.400	0.000	0.603
UNIT 2	1.755	1.320	0.000	0.435
UNIT 3	1.378	1.100	0.000	0.278
UNIT 4	0.866	0.650	0.000	0.216
STORMWATER PARCEL	1.750	0.000	0.677	1.073
PROJECT TOTAL	8.752	5.470	0.677	2.605

**UNIT SETBACKS AND BUFFERS**

	BUILDING	LANDSCAPE
FRONT (GRANADA)	75 FEET	36 FEET
FRONT (OLD KINGS)	40 FEET	10 FEET
REAR	30 FEET	10 FEET
SIDE (EXTERIOR)	20 FEET	6 FEET
SIDE (INTERIOR)	10 FEET	5 FEET
SIDE (ZERO LOT LINE)	10 FEET	0 FEET

**FLOOR AREA RATIO (FAR):**

BUILDINGS CANNOT EXCEED AN OVERALL FAR OF 0.20  
 FAR (MAX) = 0.20 (8,752 ACRES x 43,560 SF/ACRE) = 76,247 SF

**PARKING CALCULATIONS:**

**UNIT 1 - INTENSIVE RETAIL**  
 1 SPACE PER 250 SF = 24,100 SF x 1 SPC / 225 SF = 108  
 TOTAL SPACES REQUIRED = 108  
 TOTAL SPACES PROVIDED = 118

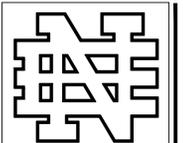
**UNIT 2 - RESTAURANT**  
 1 SPACE PER 3 SEATS + 1 SPACE FOR EACH 2 EMPLOYEES = 130 SEATS x 1 SPC / 3 SEATS + 18 EMP x 1 SPC / 2EMP = 53  
 TOTAL SPACES REQUIRED = 53  
 TOTAL SPACES PROVIDED = 61

**UNIT 3 - INTENSIVE RETAIL**  
 1 SPACE PER 225 SF = 4,513 SF x 1 SPC / 225 SF = 21  
 TOTAL SPACES REQUIRED = 21  
 TOTAL SPACES PROVIDED = 35

**UNIT 4 - NON-INTENSIVE RETAIL**  
 1 SPACE PER 250 SF = 3,765 SF x 1 SPC / 225 SF = 17  
 TOTAL SPACES REQUIRED = 17  
 TOTAL SPACES PROVIDED = 29

**REVISIONS**

DATE	DESCRIPTION



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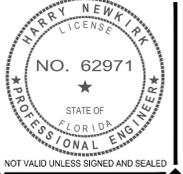
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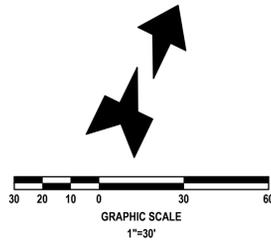
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**CONCEPTUAL SITE PLAN**  
**ORMOND CENTRAL**  
 1 SOUTH OLD KINGS RD  
 ORMOND BEACH, FLORIDA 32174



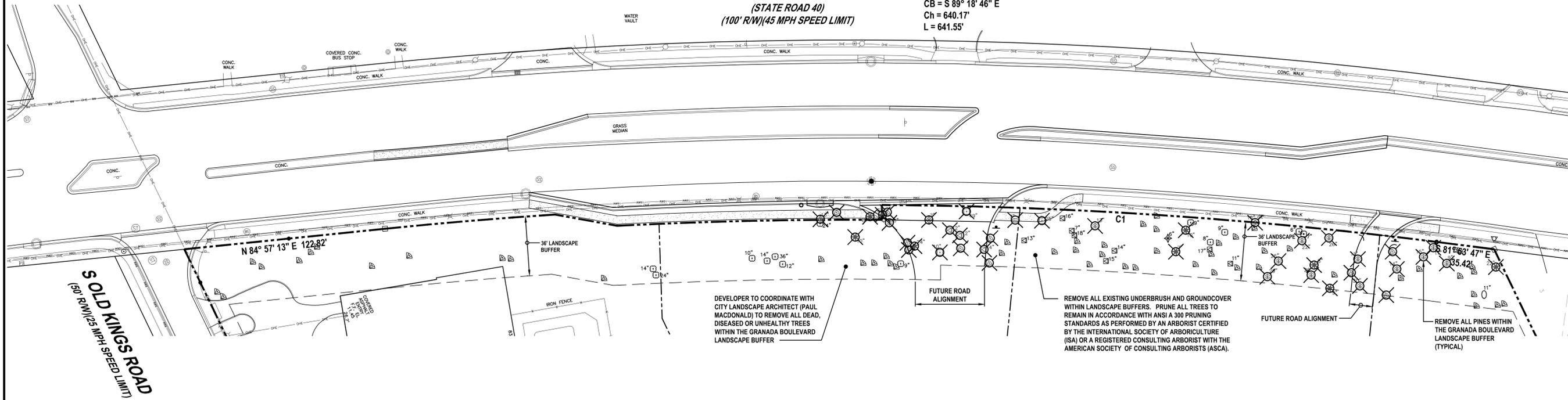
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 DATE: APRIL 2016  
 DESIGN BY: HHN  
 DRAWN BY: DAB  
 CHECKED BY: HHN  
 SCALE: 1"=40'  
 DRAWING NUMBER

**C-25**



**W GRANADA BOULEVARD**  
 (STATE ROAD 40)  
 (100' R/W)(45 MPH SPEED LIMIT)

**CURVE C1**  
 CA = 13°03'30"  
 R = 2814.93'  
 CB = S 89° 18' 46" E  
 Ch = 640.17'  
 L = 641.55'



DEVELOPER TO COORDINATE WITH CITY LANDSCAPE ARCHITECT (PAUL MACDONALD) TO REMOVE ALL DEAD, DISEASED OR UNHEALTHY TREES WITHIN THE GRANADA BOULEVARD LANDSCAPE BUFFER

REMOVE ALL EXISTING UNDERBRUSH AND GROUNDCOVER WITHIN LANDSCAPE BUFFERS. PRUNE ALL TREES TO REMAIN IN ACCORDANCE WITH ANSI A 300 PRUNING STANDARDS AS PERFORMED BY AN ARBORIST CERTIFIED BY THE INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA) OR A REGISTERED CONSULTING ARBORIST WITH THE AMERICAN SOCIETY OF CONSULTING ARBORISTS (ASCA).

REMOVE ALL PINES WITHIN THE GRANADA BOULEVARD LANDSCAPE BUFFER (TYPICAL)

**TREE LEGEND :**

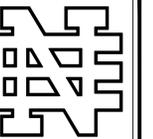
	EXISTING	REMOVED
BAY TREE	○	1
ELM TREE	◆	2
MAGNOLIA TREE	⊠	3
OAK TREE	⊕	3
PALM TREE	⊞	10
PINE TREE	⊗	14
SWEETGUM	✱	9
<b>TOTAL</b>	<b>119</b>	<b>42</b>

**LEGEND:**

⊗ TREES TO BE REMOVED

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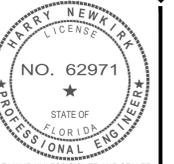


**HOLUB DEVELOPMENT**

1185 GRANADA BLVD.  
 SUITE 12  
 PO BOX 730086  
 ORMOND BEACH, FL 32173  
 PHONE: (386) 677-7617  
 FAX: (386) 677-7630

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**GRANADA BOULEVARD  
 BUFFER PLAN  
 ORMOND CENTRAL**  
 1 SOUTH OLD KINGS RD  
 ORMOND BEACH, FLORIDA 32174

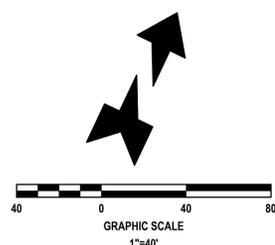
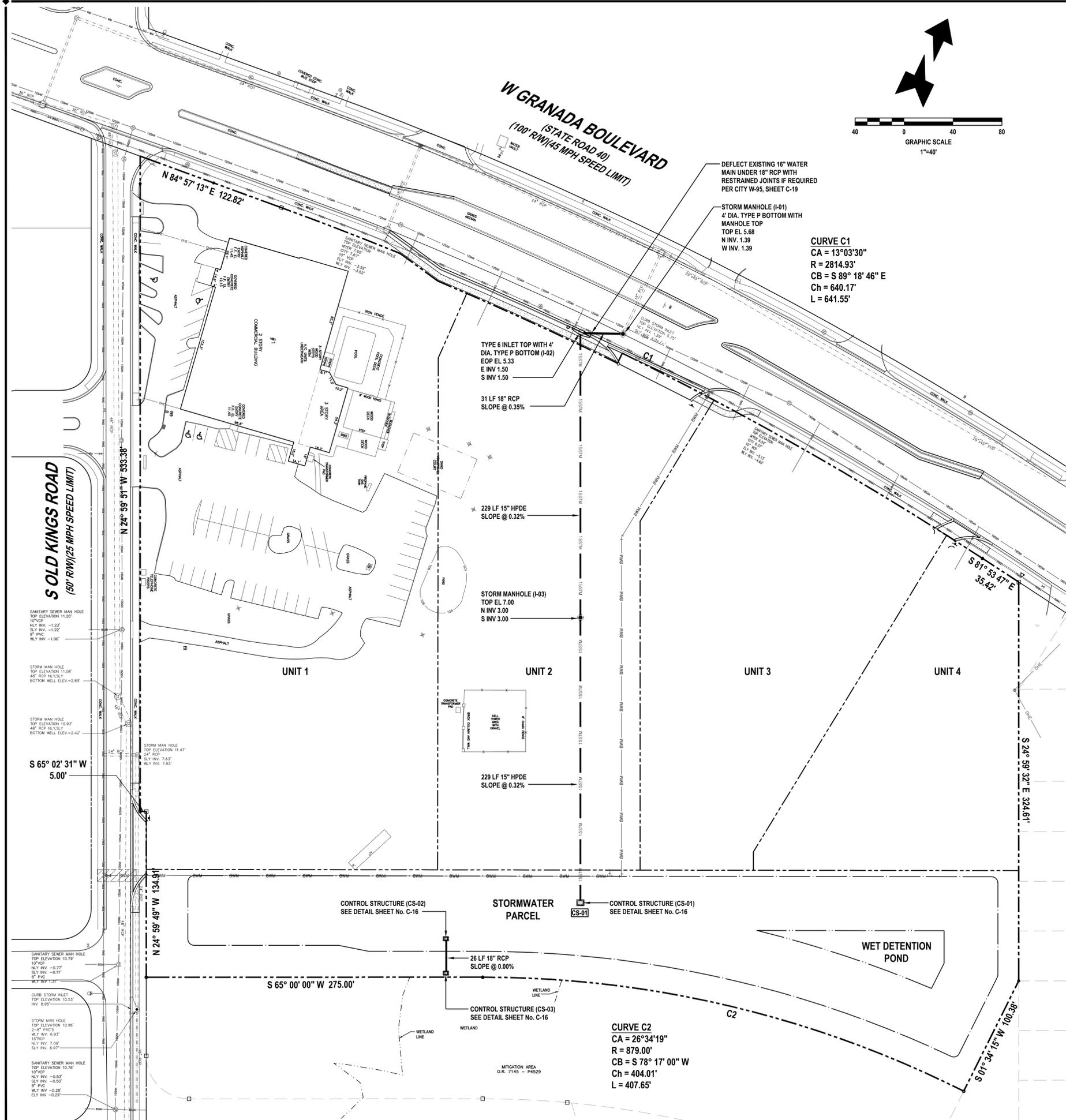


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**C-24**





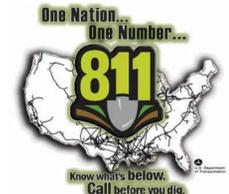
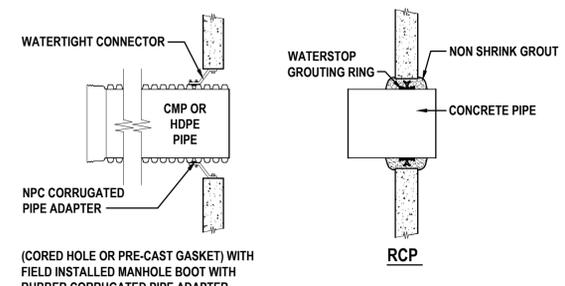
**GENERAL DRAINAGE NOTES:**

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO DRAINAGE SYSTEM AND SHALL RESTORE ANY DAMAGED STRUCTURES.
2. ALL STORM PIPE SHALL BE CONSTRUCTED OF HDPE (SIC) PIPE WITH CERTIFIED WATERTIGHT JOINTS BY THE MANUFACTURER OR REINFORCED CONCRETE PIPE (RCP). ACCEPTABLE HDPE PIPE SHALL BE HANCOR SUR-LOK WT, ADS SERIES 35, ADS N-12 WITH WT JOINT OR EQUAL. ALL PIPE JOINTS SHALL BE WRAPPED PER FDOT DESIGN STANDARD INDEX No. 280.
3. STORM PIPE SHALL BE CONSTRUCTED OF REINFORCED CONCRETE PIPE (RCP). RCP JOINTS SHALL BE WRAPPED WHERE APPLICABLE PER FDOT SPECIFICATIONS.
4. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ALL MATERIAL AND STRUCTURES TO THE ENGINEER (NEWKIRK ENGINEERING, INC.) FOR APPROVAL PRIOR TO THE PRECONSTRUCTION MEETING.
5. CONTRACTOR TO PLACE FILTER FABRIC BETWEEN DRAINAGE STRUCTURES AND TOPS TO PREVENT SOIL INTRUSION. THE FABRIC SHALL BE PERIODICALLY CLEANED OF SAND A DEBRIS FABRIC SHALL REMAIN IN PLACE UNTIL PAVING IS COMPLETE.
6. ALL EXISTING STRUCTURES, UNLESS OTHERWISE NOTED TO REMAIN. FENCING TREES, & ETC., WITHIN THE CONSTRUCTION AREA SHALL BE REMOVED AND DISPOSED OF OFFSITE.
7. ALL DRAINAGE STRUCTURES SHALL BE PRE-CAST PER FDOT SPECIFICATIONS.
8. ALL DRAINAGE STRUCTURES AND STORM SEWER PIPES SHALL MEET HEAVY DUTY TRAFFIC (H20) LOADING AND BE INSTALLED ACCORDINGLY PER FOOT STANDARD SPECIFICATIONS AND MANUFACTURERS SPECIFICATIONS RESPECTIVELY.
9. ALL DRAINAGE STRUCTURES AND PIPES SHALL BE CLEANED OF SAND AT THE LAST STAGE OF CONSTRUCTION PRIOR TO THE FINAL INSPECTION.
10. ALL STORM INLET GRATES SHALL BE STEEL (TRAFFIC RATED).

**SUMMARY OF DRAINAGE:**

THE MINIMUM WATER QUALITY TREATMENT VOLUME REQUIRED IS EQUAL TO 2.5-INCHES OVER THE IMPERVIOUS SURFACE RUNOFF OVER THE DRAINAGE BASIN. STORMWATER TREATMENT IS PROVIDED BY WET DETENTION POND. THE TREATMENT SYSTEM IS DESIGNED SO THAT THE POST DEVELOPMENT DISCHARGE RATE AND VOLUME DOES NOT EXCEED THE PRE-DEVELOPMENT DISCHARGE RATE AND VOLUME FOR THE MEAN ANNUAL, 25 YEAR, 24 HOUR AND 100 YEAR, 24 HOUR STORM EVENTS.

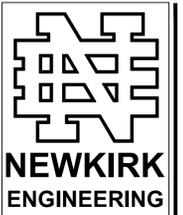
	OFFSITE-1		OFFSITE-2		POND PEAK STAGE (FT)
	RAINFALL (INCHES)	DISCHARGE RATE (CFS)	DISCHARGE RATE (CFS)		
MEAN ANNUAL, 24 HOUR	5.0	2.34 1.40	2.37 0.36		5.38
25 YEAR, 24 HOUR	9.0	5.21 3.59	5.53 3.95		6.88
100 YEAR, 24 HOUR	11.0	6.62 4.06	7.13 6.53		7.68
	TREATMENT VOLUME REQUIRED (CF)	TREATMENT VOLUME PROVIDED (CF)	TREATMENT VOLUME RECOVERY (HOURS)	25 YEAR STORM VOLUME (CF)	25 YEAR STORM EVENT RECOVERY (HOURS)
POND	49,659	52,272	28.0	250,734	234.0



**WARNING !!**  
CONTRACTOR SHALL TAKE ALL PRECAUTIONS DURING CONSTRUCTION TO AVOID CONTACT WITH EXISTING UNDERGROUND UTILITIES AND OVERHEAD ELECTRIC IN THE RIGHT-OF-WAY.

**REVISIONS**

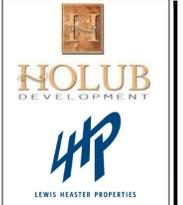
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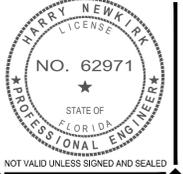
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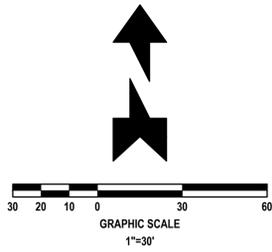
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**DRAINAGE PLAN**  
**ORMOND CENTRAL**  
1 SOUTH OLD KINGS RD  
ORMOND BEACH, FLORIDA 32174



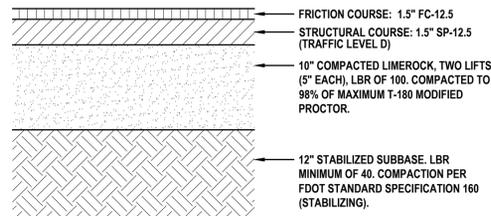
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DRAWN BY: DAB  
CHECKED BY: HHN  
SCALE: 1"=40'  
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**C-15**



**LEGEND**

- TYPE 'F' CATCH CURB
- TYPE 'E' SPILLOVER CURB



**FDOT ASPHALT SECTION**

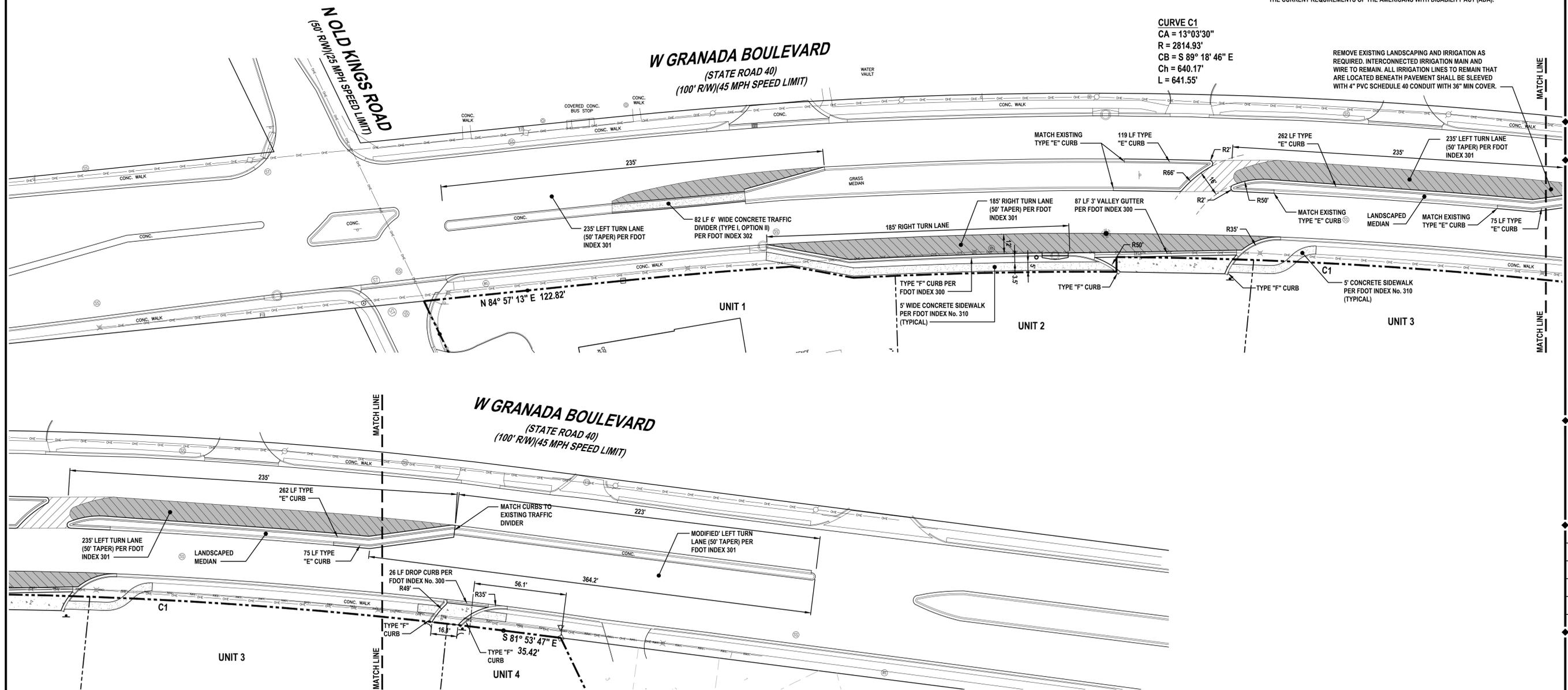
NOT TO SCALE

**PAVING LEGEND**

- FDOT ASPHALT PAVEMENT: FRICTION COURSE: 1.5" FC-12.5, STRUCTURAL COURSE: 1.5" SP-12.5 (TRAFFIC LEVEL D), 10" COMPACTED LIMEROCK, TWO LIFTS (5" EACH), LBR OF 100, COMPACTED TO 98% OF MAXIMUM T-180 MODIFIED PROCTOR. SUBMIT COPIES OF DENSITIES TO FDOT. 12" STABILIZED SUBBASE. LBR MINIMUM OF 40. COMPACTION PER FDOT STANDARD SPECIFICATION 160 (STABILIZING).
- ASPHALT OVERLAY: MILL 1" AVERAGE DEPTH AND RESURFACE WITH 1" FC-12.5
- FDOT CONCRETE PAVEMENT: 8" CONCRETE (3,000 P.S.I. @ 28 DAYS) (APPROVED FDOT MIX DESIGN) 12" STABILIZED SUBGRADE (LBR 40) MIN OF 98% MODIFIED PROCTOR MAX DRY DENSITY PER ASTM D1557, AASHTO T-180 (6" LIFTS) CONTROL JOINT SPACING PER FDOT INDEX 305
- FDOT CONCRETE SIDEWALK: 4" THICK CONCRETE (MIN. 3,000 PSI, CLASS I CONCRETE) APPROVED FDOT DESIGN MIX PER FDOT INDEX 310

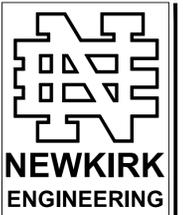
**GENERAL NOTES:**

1. MAINTENANCE OF TRAFFIC TO BE SUPERVISED BY A CERTIFIED PERSON (ON SITE).
2. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT A MINIMUM OF 48 HOURS PRIOR TO BEGINNING ANY WORK WITH IN THE FDOT RW.
3. ALL WORK PERFORMED WITH IN THE FDOT RW SHALL BE IN ACCORDANCE WITH THE 2016 EDITION OF THE DESIGN STANDARDS & SPECIFICATION FOR ROAD & BRIDGE, AND ALONG WITH THE UTILITY ACCOMMODATION MANUAL.
4. IT IS THE RESPONSIBILITY OF THE PERMITTEE TO REPAIR ANY DAMAGE TO FDOT FACILITIES CAUSED BY THE CONSTRUCTION OF THIS PROJECT.
5. ANY TEST RESULTS TAKEN DURING CONSTRUCTION OF THE PERMITTED WORK SHALL BE PROVIDED TO THE DEPARTMENT UPON REQUEST.
6. ALL CONCRETE TO BE REMOVED SHALL BE SAW CUT TO NEAREST JOINT IN GOOD CONDITION, SO A CONNECTION THAT IS FREE OF CRACKS, DEFORMITIES OR VOIDS & IRREGULARITIES ARE NOT DEFECTIVE.
7. ALL CONCRETE SHALL BE AN APPROVED FDOT MIX DESIGN OF 3,000 PSI.
8. ALL MATERIALS INSTALLED INSIDE FDOT RW SHALL BE ON THE QUALIFIED PRODUCTS LIST OR APPROVED PRODUCTS LIST.
9. ALL CONSTRUCTION SHALL BE STAKED FOR CONSTRUCTION BY MEANS OF DIGITAL COORDINATES BY SURVEYOR UTILIZING GEODETIC TOTAL STATION. SCALING OF DRAWINGS FOR PURPOSES OF STAKING ARE AT THE SURVEYOR'S RISK.
10. THE CONTRACTOR SHALL SUBMIT A MAINTENANCE OF TRAFFIC AND BARRICADE PLAN TO THE ENGINEER FOR APPROVAL WITH THE BID. INCLUDE THE MOT PLAN AT THE PRECONSTRUCTION MEETING.
11. ALL TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO CONSTRUCTION AND THE FDOT INSPECTOR NOTIFIED FOR APPROVAL.
12. ALL BARRICADES AND POSTED SIGNAGE SHALL REMAIN IN PLACE UNTIL PAVING WORK IS COMPLETE. ALL BARRICADES SHALL BE VERIFIED IN PLACE BY THE CONTRACTOR AT THE END OF EACH WORK DAY.
13. SOD ALL DISTURBED AREAS IN RIGHT-OF-WAY WITH BAHIA.
14. THE CONTRACTOR SHALL ENSURE THAT ALL SIDEWALKS AND CROSSWALKS CONFORM TO THE CURRENT REQUIREMENTS OF THE AMERICANS WITH DISABILITY ACT (ADA).

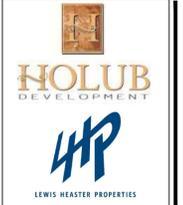


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DATE	DESCRIPTION

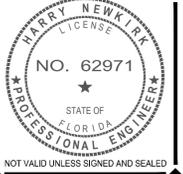


**NEWKIRK ENGINEERING**  
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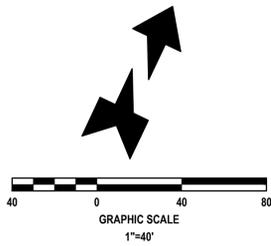
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**GRANADA BOULEVARD LAYOUT PLAN**  
**ORMOND CENTRAL**  
 1 SOUTH OLD KINGS RD  
 ORMOND BEACH, FLORIDA 32174



PROJECT No:	2015-165
DATE:	APRIL 2016
DESIGN BY:	HHN
DRAWN BY:	DAB
CHECKED BY:	HHN
SCALE:	1"=30'
DRAWING NUMBER	

C-7



**WARNING !!**  
CONTRACTOR SHALL TAKE ALL PRECAUTIONS DURING CONSTRUCTION TO AVOID CONTACT WITH EXISTING UNDERGROUND UTILITIES AND OVERHEAD ELECTRIC IN THE RIGHT-OF-WAY.

- LEGEND:**
- LIMITS OF DEVELOPMENT (PROPERTY LINE)
  - APPROXIMATE LIMITS OF ASPHALT PAVEMENT REMOVAL
  - APPROXIMATE LIMITS OF CONCRETE SIDEWALK, DECK AND PAD REMOVAL
  - APPROXIMATE LIMITS OF WOOD DECK REMOVAL
  - MEDIAN PLANTINGS, SOD AND UNSUITABLE SOILS REMOVAL
  - PROPOSED TYPE III SILT FENCE
  - CURB INLET FILTER

**BENCHMARK INFORMATION:**

- #1** HPR 108  
ELEVATION = 6.21 FEET
  - #2** PARKER KALON NAIL DISK  
ELEVATION = 11.40
  - #3** 4"x4" CONCRETE MONUMENT  
ELEVATION = 10.64
  - #4** FOOT NAIL AND DISK  
ELEVATION = 7.07
- VERTICAL DATA  
ELEVATIONS REFER TO (NAVD 88) NORTH AMERICAN VERTICAL DATUM 1988. FEET AND DECIMAL PART THEREOF. BENCHMARK REFERENCE NAVD DATUM OF 1988. BENCHMARK, DESIGNATION HPR 108. ELEVATION 6.21 FEET.

**SWPPP INSPECTIONS AND RECORD KEEPING:**

INSPECTIONS ARE REQUIRED AT LEAST EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS FOLLOWING A RAINFALL EVENT OF ONE-HALF (1/2) OF AN INCH OF RAINFALL OR GREATER AND SHALL CONTINUE UNTIL THE SITE COMPLIES WITH FINAL STABILIZATION (NOTICE OF TERMINATION). INSPECTIONS MUST BE CONDUCTED BY A "QUALIFIED" INSPECTOR. "QUALIFIED" IS DEFINED AS A PERSON THAT A) HAS SUCCESSFULLY COMPLETED AND MET ALL REQUIREMENTS NECESSARY TO BE FULLY CERTIFIED THROUGH THE FDEP STORMWATER, EROSION AND SEDIMENTATION CONTROL INSPECTOR TRAINING PROGRAM; B) HAS SUCCESSFULLY COMPLETED AN EQUIVALENT FORMAL TRAINING PROGRAM; OR C) THAT IS QUALIFIED BY OTHER TRAINING OR PRACTICAL EXPERIENCE IN THE FIELD OF STORMWATER POLLUTION PREVENTION AND EROSION AND SEDIMENTATION CONTROL. EACH INSPECTION MUST BE FOLLOWED UP BY A REPORT DOCUMENTING THE INSPECTOR'S FINDINGS AND REQUEST THE REQUIRED MAINTENANCE AND/OR REPAIR FOR THE EROSION AND SEDIMENTATION CONTROL MEASURES. THESE RECORDS ARE USED TO PROVE THAT THE REQUIRED INSPECTION AND MAINTENANCE WERE PERFORMED AND SHALL BE PLACED IN THE SWPPP LEDGER. IN ADDITION TO INSPECTION AND MAINTENANCE REPORTS, RECORDS SHOULD BE KEPT OF CONSTRUCTION ACTIVITIES THAT OCCUR ON THE SITE. THE CONTRACTOR SHALL RETAIN COPIES OF THE SWPPP, ALL REPORTS AND DATA FOR A MINIMUM OF FIVE (5) YEARS AFTER THE PROJECT IS COMPLETE IN PAPER AND CD FORMAT.

**EROSION CONTROL NOTES:**

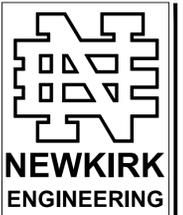
1. LAND DISTURBING ACTIVITIES SHALL NOT COMMENCE UNTIL APPROVAL TO DO SO HAS BEEN RECEIVED BY GOVERNING AUTHORITIES. THE GENERAL CONTRACTOR SHALL STRICTLY ADHERE TO THE SWPPP DURING CONSTRUCTION OPERATIONS.
2. NO LAND CLEARING OR GRADING SHALL BEGIN UNTIL ALL EROSION CONTROL DEVICES HAVE BEEN INSTALLED.
3. THE CONTRACTOR SHALL POST "NO TRESPASSING" SIGNAGE AT ALL SITE ENTRANCES PRIOR TO CONSTRUCTION.
4. MAINTAIN EROSION CONTROL MEASURES AFTER EACH RAIN AND AT LEAST ONCE A WEEK.
5. THIS PLAN SHALL NOT BE CONSIDERED ALL INCLUSIVE AS THE GENERAL CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SOIL SEDIMENT FROM LEAVING THE SITE.
6. GENERAL CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL ORDINANCES THAT APPLY.
7. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY BY ON SITE INSPECTION.
8. NO TURBID WATER SHALL BE DISCHARGED OFF-SITE FROM THE DEWATERING OPERATION. CONTRACTOR SHALL TAKE MEASURES TO CONTROL TURBIDITY.
9. IF INSTALLATION OF STORM DRAINAGE SYSTEM SHOULD BE INTERRUPTED BY WEATHER OF NIGHTFALL, THE PIPE ENDS SHALL BE COVERED WITH FILTER FABRIC.
10. GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO TAKE WHATEVER MEANS NECESSARY TO ESTABLISH PERMANENT SOIL STABILIZATION.
11. PROVIDE DUST CONTROL FOR ALL EARTHWORK OPERATIONS. COVER AREA WITH LIGHT COATING OF WATER OR OTHER APPROVED METHOD.

**DEMOLITION AND SWPPP NOTES:**

1. ALL EROSION CONTROL DEVICES AND VISIBLE BARRICADES SHALL BE INSTALLED AND APPROVED BY THE ENGINEER PRIOR TO THE START OF CLEARING AND GRUBBING.
2. THE CONTRACTOR SHALL SCHEDULE A PRECONSTRUCTION MEETING WITH THE CITY AS SPECIFIED PRIOR TO START OF CONSTRUCTION.
3. THE SITE SHALL BE CLEARED AND GRUBBED OF ALL VEGETATION AND DEBRIS WITHIN THE APPROXIMATE LIMITS OF CLEARING AS INDICATED ON THE DRAWING.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE VOLUSIA COUNTY UTILITY DEPARTMENT, FLORIDA SUNSHINE AND EMERGENCY SERVICES FOR RESPECTIVE UTILITY LOCATIONS AND "NOTICE" OF CONSTRUCTION ACTIVITY.
5. ALL REMOVED MATERIAL SHALL BE HAULED OFF-SITE TO AN APPROVED LANDFILL. TREES MAY BE LOGGED OR MULCHED FOR OFF-SITE DISPOSAL AT THE CONTRACTOR'S DISCRETION.
6. ALL EROSION CONTROL DEVICES SHALL BE PLACED PRIOR TO THE START OF WORK AND REMAIN IN PLACE UNTIL ALL WORK IS COMPLETE.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR PERIODIC INSPECTION AND REMOVAL OF DEBRIS AND SILT BEHIND EROSION CONTROL DEVICES.
8. ALL INLETS AND PIPE SHALL BE PROTECTED DURING CONSTRUCTION BY INLET PROTECTION MEASURES TO PREVENT SILTATION IN THE DRAINAGE SYSTEM (SEE DETAILS THIS DRAWING). THE ENTIRE DRAINAGE SYSTEM SHALL BE CLEANED OF ALL DEBRIS PRIOR TO FINAL ACCEPTANCE.
9. ALL OFF-SITE AREAS DISTURBED DURING CONSTRUCTION ACTIVITY SHALL BE IMMEDIATELY RESTORED TO PRIOR CONDITION UPON COMPLETION OF WORK.
10. SOILS ARE TO BE STABILIZED BY WATER OR OTHER MEANS DURING CONSTRUCTION. THIS IS INTENDED TO REDUCE SOIL EROSION, BLOWING SAND AND THE IMPACT TO NEIGHBORING PROPERTIES.
11. THE CONTRACTOR SHALL PROVIDE THE ENGINEER, CITY A MOT PLAN AT PRECONSTRUCTION MEETING. TRAFFIC SHALL BE ALLOWED TO CONTINUE DURING WORK. PROVIDE MEASURES TO DETOUR TRAFFIC AROUND OPEN EXCAVATION WITH ADEQUATE BARRICADES, SIGNAGE AND FLAGPERSON TO DIRECT TRAFFIC. EMERGENCY SERVICES SHALL BE NOTIFIED 48 HOUR IN ADVANCE.
12. EXISTING DRIVEWAYS SHOWN ADJACENT TO OR OUTSIDE LIMITS OF CONSTRUCTION SHALL REMAIN IN-SERVICE. EXISTING UTILITIES AND DRIVEWAYS SHALL NOT BE REMOVED UNLESS OTHERWISE NOTED.

**REVISIONS**

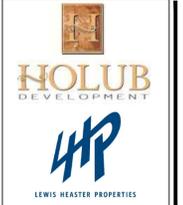
DATE	DESCRIPTION



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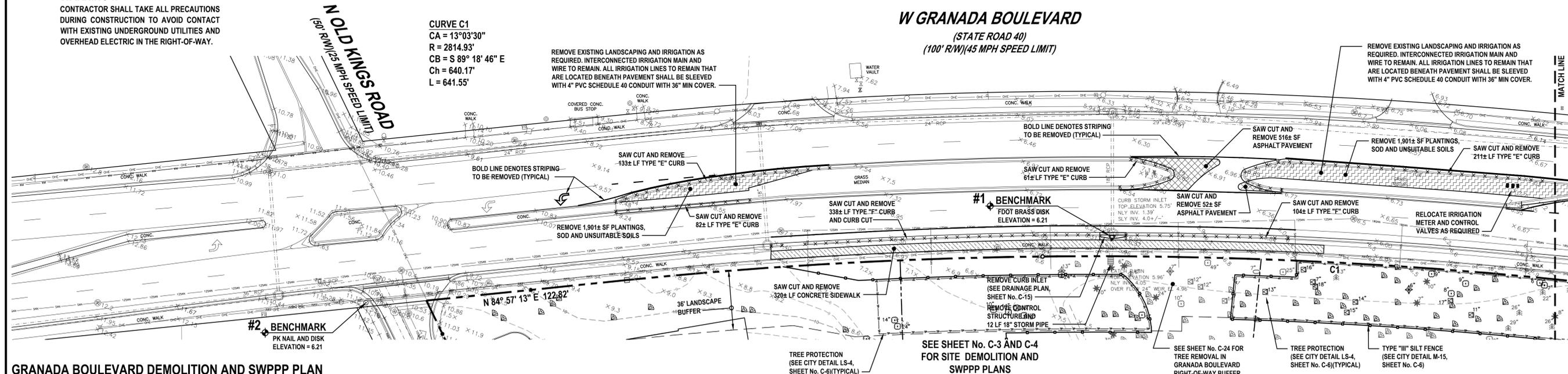
Certificate of Authorization  
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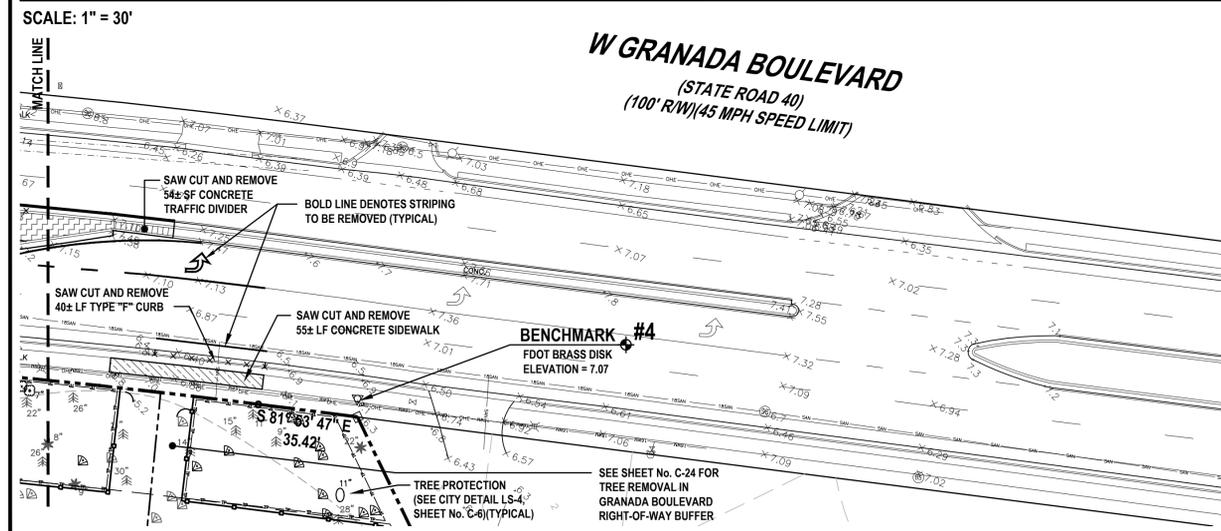


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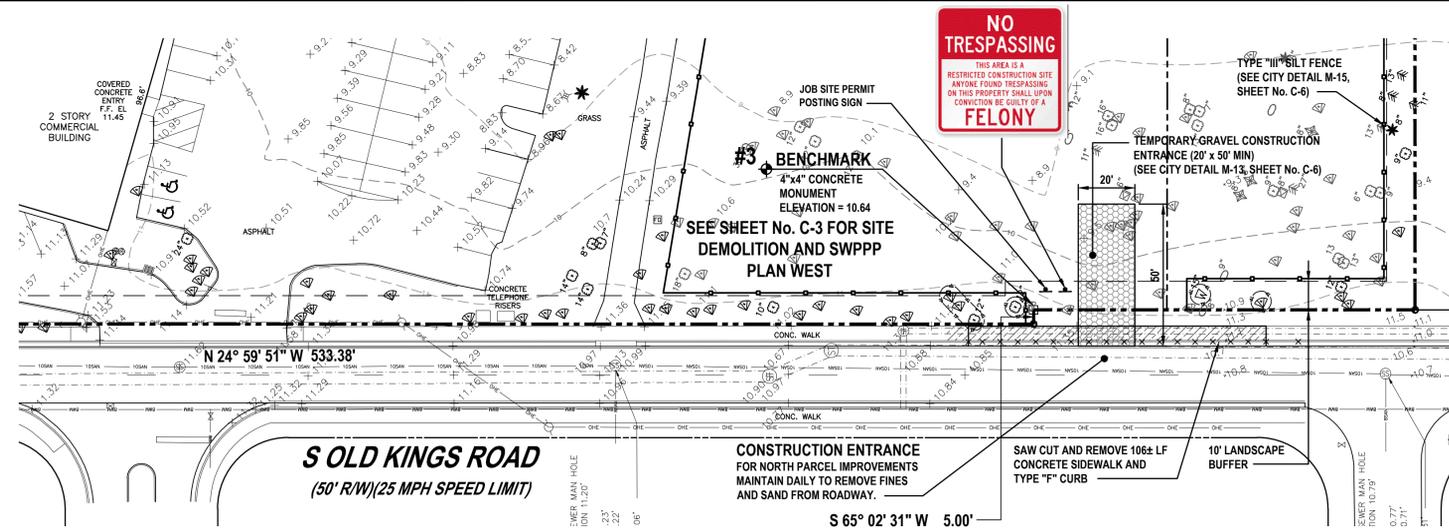
RIGHT-OF-WAY DEMOLITION AND SWPPP PLAN  
 PRMOND CENTRAL  
 1 SOUTH OLD KINGS RD  
 ORMOND BEACH, FLORIDA 32174



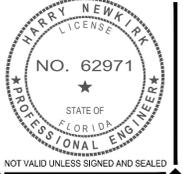
**GRANADA BOULEVARD DEMOLITION AND SWPPP PLAN**



**GRANADA BOULEVARD DEMOLITION AND SWPPP PLAN**

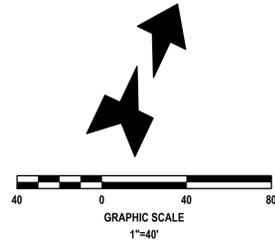
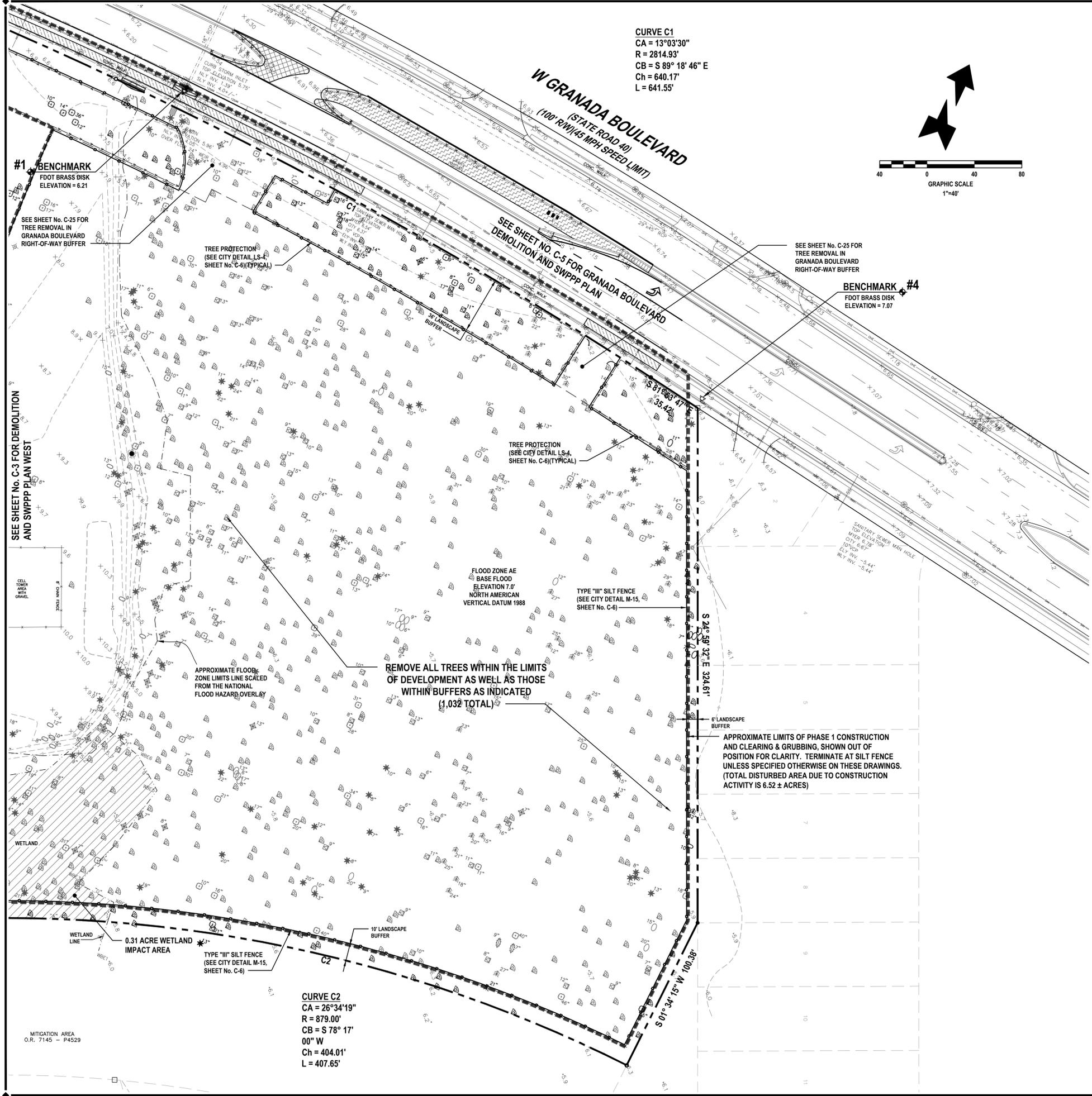


**OLD KINGS ROAD DEMOLITION AND SWPPP PLAN**



PROJECT No: 2015-165  
DATE: APRIL 2016  
DESIGN BY: HHN  
DRAWN BY: DAB  
CHECKED BY: HHN  
SCALE: 1"=30'  
DRAWING NUMBER

**C-5**



**DEMOLITION AND SWPPP NOTES:**

- ALL EROSION CONTROL DEVICES AND VISIBLE BARRICADES SHALL BE INSTALLED AND APPROVED BY THE ENGINEER PRIOR TO THE START OF CLEARING AND GRUBBING.
- THE CONTRACTOR SHALL SCHEDULE A PRECONSTRUCTION MEETING WITH THE CITY AS SPECIFIED PRIOR TO START OF CONSTRUCTION.
- THE SITE SHALL BE CLEARED AND GRUBBED OF ALL VEGETATION AND DEBRIS WITHIN THE APPROXIMATE LIMITS OF CLEARING AS INDICATED ON THE DRAWING.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE VOLUSIA COUNTY UTILITY DEPARTMENT, FLORIDA SUNSHINE AND EMERGENCY SERVICES FOR RESPECTIVE UTILITY LOCATIONS AND "NOTICE" OF CONSTRUCTION ACTIVITY.
- ALL REMOVED MATERIAL SHALL BE HAULED OFF-SITE TO AN APPROVED LANDFILL. TREES MAY BE LOGGED OR MULCHED FOR OFF-SITE DISPOSAL AT THE CONTRACTOR'S DISCRETION.
- ALL EROSION CONTROL DEVICES SHALL BE PLACED PRIOR TO THE START OF WORK AND REMAIN IN PLACE UNTIL ALL WORK IS COMPLETE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PERIODIC INSPECTION AND REMOVAL OF DEBRIS AND SILT BEHIND EROSION CONTROL DEVICES.
- ALL INLETS AND PIPE SHALL BE PROTECTED DURING CONSTRUCTION BY INLET PROTECTION MEASURES TO PREVENT SILTATION IN THE DRAINAGE SYSTEM (SEE DETAILS THIS DRAWING). THE ENTIRE DRAINAGE SYSTEM SHALL BE CLEANED OF ALL DEBRIS PRIOR TO FINAL ACCEPTANCE.
- ALL OFF-SITE AREAS DISTURBED DURING CONSTRUCTION ACTIVITY SHALL BE IMMEDIATELY RESTORED TO PRIOR CONDITION UPON COMPLETION OF WORK.
- SOILS ARE TO BE STABILIZED BY WATER OR OTHER MEANS DURING CONSTRUCTION. THIS IS INTENDED TO REDUCE SOIL EROSION, BLOWING SAND AND THE IMPACT TO NEIGHBORING PROPERTIES.
- THE CONTRACTOR SHALL PROVIDE THE ENGINEER, CITY A MOT PLAN AT PRECONSTRUCTION MEETING. TRAFFIC SHALL BE ALLOWED TO CONTINUE DURING WORK. PROVIDE MEASURES TO DETOUR TRAFFIC AROUND OPEN EXCAVATION WITH ADEQUATE BARRICADES, SIGNAGE AND FLAGPERSON TO DIRECT TRAFFIC. EMERGENCY SERVICES SHALL BE NOTIFIED 48 HOUR IN ADVANCE.
- EXISTING DRIVEWAYS SHOWN ADJACENT TO OR OUTSIDE LIMITS OF CONSTRUCTION SHALL REMAIN IN-SERVICE. EXISTING UTILITIES AND DRIVEWAYS SHALL NOT BE REMOVED UNLESS OTHERWISE NOTED.

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- MAINTAIN EROSION CONTROL MEASURES AFTER EACH RAIN AND AT LEAST ONCE A WEEK.
- THIS PLAN SHALL NOT BE CONSIDERED ALL INCLUSIVE AS THE GENERAL CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SOIL SEDIMENT FROM LEAVING THE SITE.
- GENERAL CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL ORDINANCES THAT APPLY.
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- NO TURBID WATER SHALL BE DISCHARGED OFF-SITE FROM THE DEWATERING OPERATION. CONTRACTOR SHALL TAKE MEASURES TO CONTROL TURBIDITY.
- IF INSTALLATION OF STORM DRAINAGE SYSTEM SHOULD BE INTERRUPTED BY WEATHER OF NIGHTFALL, THE PIPE ENDS SHALL BE COVERED WITH FILTER FABRIC.
- GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO TAKE WHATEVER MEANS NECESSARY TO ESTABLISH PERMANENT SOIL STABILIZATION.
- PROVIDE DUST CONTROL FOR ALL EARTHWORK OPERATIONS. COVER AREA WITH LIGHT COATING OF WATER OR OTHER APPROVED METHOD.

**LEGEND:**

- LIMITS OF DEVELOPMENT (PROPERTY LINE)
- WETLAND IMPACT AREA (0.31 ACRES TOTAL)
- APPROXIMATE LIMITS OF ASPHALT PAVEMENT REMOVAL
- APPROXIMATE LIMITS OF CONCRETE SIDEWALK, DECK AND PAD REMOVAL
- APPROXIMATE LIMITS OF WOOD DECK REMOVAL
- MEDIAN PLANTINGS, SOD AND UNSUITABLE SOILS REMOVAL
- PROPOSED TYPE III SILT FENCE
- CURB INLET FILTER
- TREE TO REMAIN
- TREE TO BE REMOVED

**BENCHMARK INFORMATION:**

- #1** HPR 108 ELEVATION = 6.21 FEET
- #2** PARKER KALON NAIL DISK ELEVATION = 11.40
- #3** 4"x4" CONCRETE MONUMENT ELEVATION = 10.64
- #4** FDOT NAIL AND DISK ELEVATION = 7.07

**VERTICAL DATA**  
 ELEVATIONS REFER TO (NAVD 88) NORTH AMERICAN VERTICAL DATUM 1988. FEET AND DECIMAL PART THEREOF. BENCHMARK REFERENCE NAVD DATUM OF 1988. BENCHMARK, DESIGNATION HPR 108. ELEVATION 6.21 FEET.

**SWPPP INSPECTIONS AND RECORD KEEPING:**

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**TREE LEGEND :**

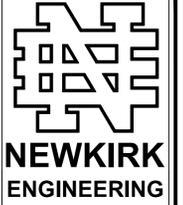
	EXISTING	REMOVED
BAY TREE	25	19
CEDAR TREE	3	2
ELM TREE	32	31
HACK BERRY OR SUGARBERRY TREE	19	15
HOLLY TREE	2	2
MAGNOLIA TREE	91	81
MULBERRY TREE	2	2
OAK TREE	133	91
PALM TREE	792	650
PINE TREE	53	92
SWEETGUM	101	91
<b>TOTAL</b>	<b>1,253</b>	<b>1,032</b>



**WARNING !!**  
 CONTRACTOR SHALL TAKE ALL PRECAUTIONS DURING CONSTRUCTION TO AVOID CONTACT WITH EXISTING UNDERGROUND UTILITIES AND OVERHEAD ELECTRIC IN THE RIGHT-OF-WAY.

**REVISIONS**

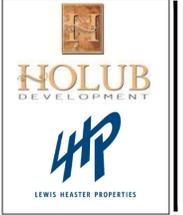
DATE	DESCRIPTION



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 Ormond Beach, Florida 32174  
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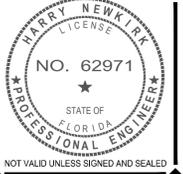
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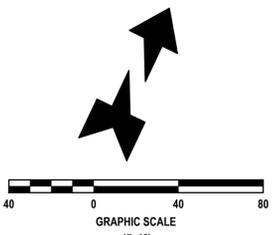
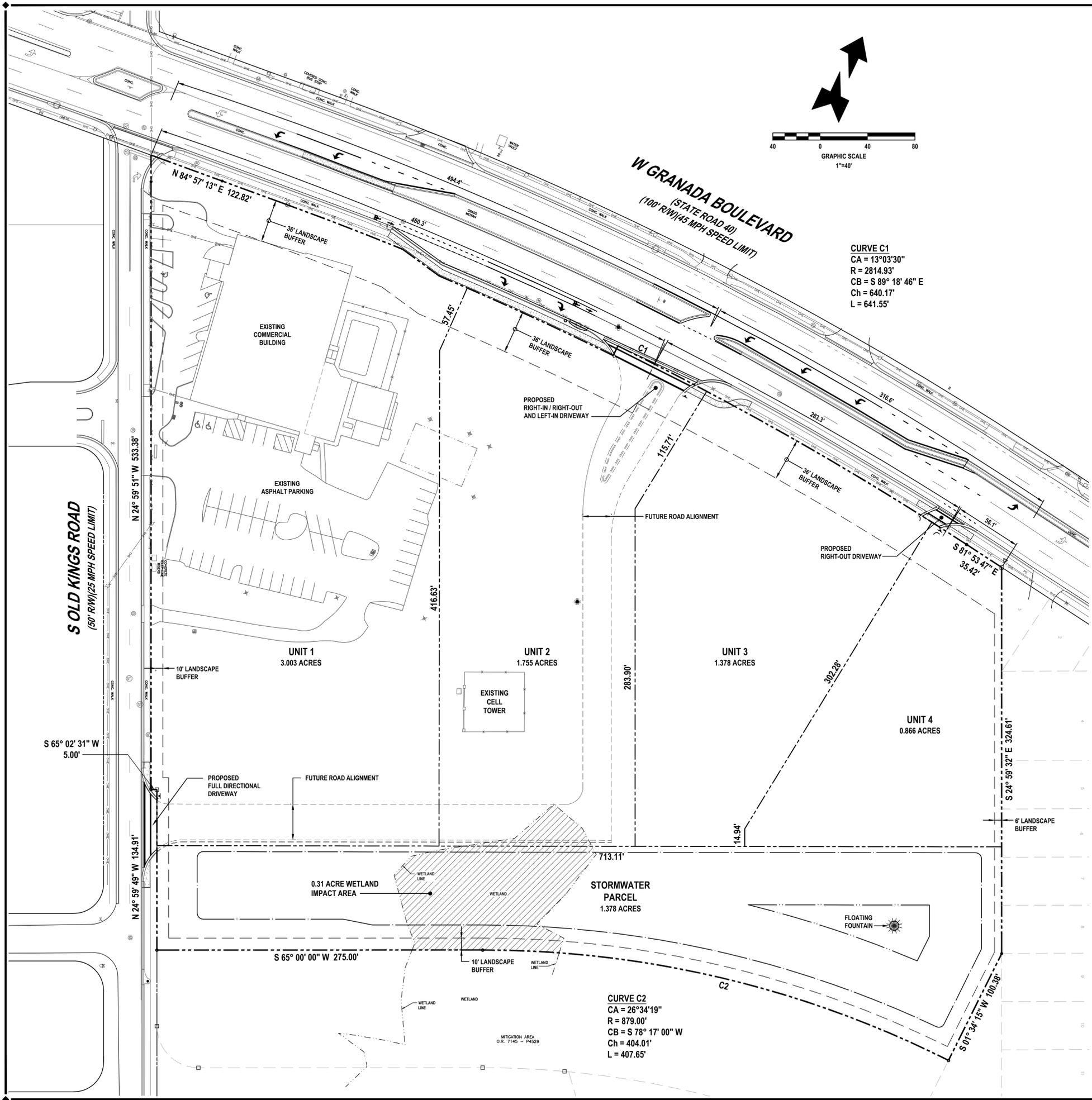
**SITE DEMOLITION AND SWPPP PLAN (EAST)**  
**ORMOND CENTRAL**  
 1 SOUTH OLD KINGS RD  
 ORMOND BEACH, FLORIDA 32174



PROJECT No: 2015-165  
 DATE: APRIL 2016  
 DESIGN BY: HHN  
 DRAWN BY: DAB  
 CHECKED BY: HHN  
 SCALE: 1"=30'  
 DRAWING NUMBER

**C-4**





DEVELOPMENT USAGE TABLE				
PARCEL	AREA ACRES	IMPERVIOUS AREA ACRES (PERCENT)	POND WET AREA ACRES (PERCENT)	PERVIOUS AREA ACRES (PERCENT)
UNIT 1	3.003	2.400	0.000	0.603
UNIT 2	1.755	1.320	0.000	0.435
UNIT 3	1.378	1.100	0.000	0.278
UNIT 4	0.866	0.650	0.000	0.216
STORMWATER PARCEL	1.750	0.000	0.677	1.073
PROJECT TOTAL	8.752	5.470	0.677	2.605

**UNIT SETBACKS AND BUFFERS**

	BUILDING	LANDSCAPE
FRONT (GRANADA)	75 FEET	36 FEET
FRONT (OLD KINGS)	40 FEET	10 FEET
REAR	30 FEET	10 FEET
SIDE (EXTERIOR)	20 FEET	6 FEET
SIDE (INTERIOR)	10 FEET	5 FEET
SIDE (ZERO LOT LINE)	10 FEET	0 FEET

**FLOOR AREA RATIO (FAR):**

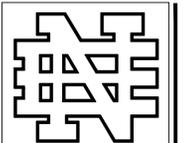
BUILDINGS CANNOT EXCEED AN OVERALL FAR OF 0.20  
 FAR (MAX) = 0.20 (8.752 ACRES x 43,560 SF/ACRE) = 76,247 SF

**LEGEND:**



**REVISIONS**

DATE	DESCRIPTION

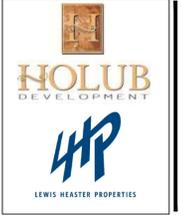


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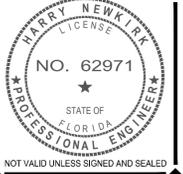
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**OVERALL DEVELOPMENT PLAN**  
**ORMOND CENTRAL**  
 1 SOUTH OLD KINGS RD  
 ORMOND BEACH, FLORIDA 32174



PROJECT No: 2015-165  
 DATE: APRIL 2016  
 DESIGN BY: HHN  
 DRAWN BY: DAB  
 CHECKED BY: HHN  
 SCALE: 1"=40'  
 DRAWING NUMBER

**C-2**