

DESIGNED

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THE SIGNATURE OF THE QUALITY CONTROL OFFICER IN THIS SPACE INDICATES THAT ALL REQUIRED PERMITS HAVE BEEN OBTAINED AND THAT CONSTRUCTION IS AUTHORIZED TO COMMENCE.

TLT

Q.C.

CFR 10/9/14

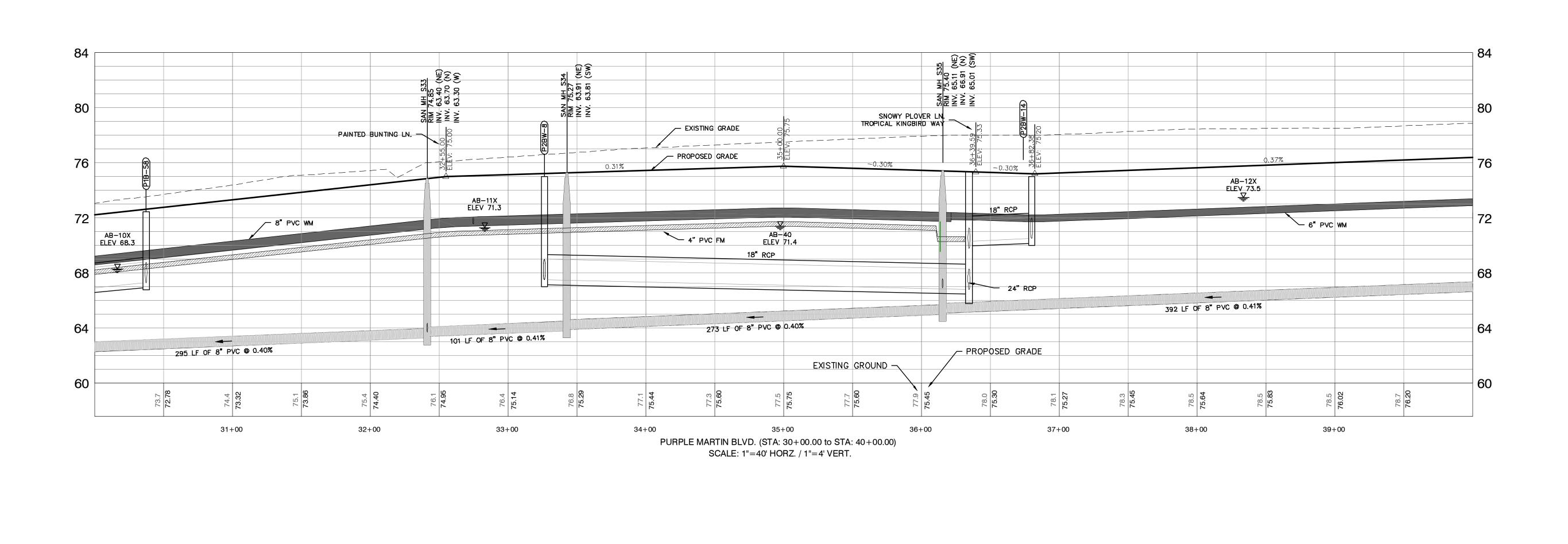
4921 Memorial Highway
One Memorial Center, Suite 300
Tampa, Florida 33634
Phone 813 880-8881
Fax 813 880-8882
www.kingengineering.com
Engineering License #2610

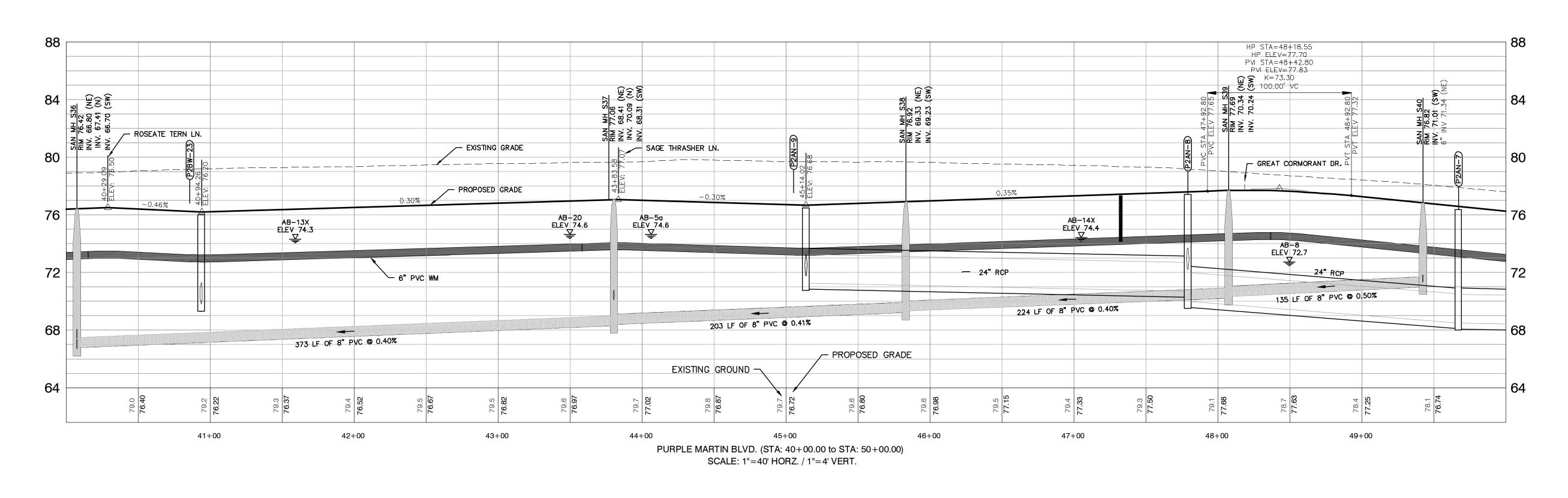
THE OAKS AT SHADY CREEK, PHASE 1

LENNAR HOMES, LLC 4600 WEST CYPRESS ST., SUITE 200 TAMPA, FL 33607

PROFILES

ISSUED FOR C	L ONSTRUCTION R 9, 2014
SCALE: AS SHOWN	
09/13/2013	C6.01
DATE:	
4802-700-001	
JOB NO.	SHEET NO.





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TLT
Q.C.

JJLW
DRAWN

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CHECKED

TLT
Q.C.

JJRK

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LENNAR HOMES, LLC

LENNAR HOMES, LLC
4600 WEST CYPRESS ST., SUITE 200
TAMPA, FL 33607

PROFILES

NO. DATE

DESCRIPTION

APP

JOB NO.

4802-700-001

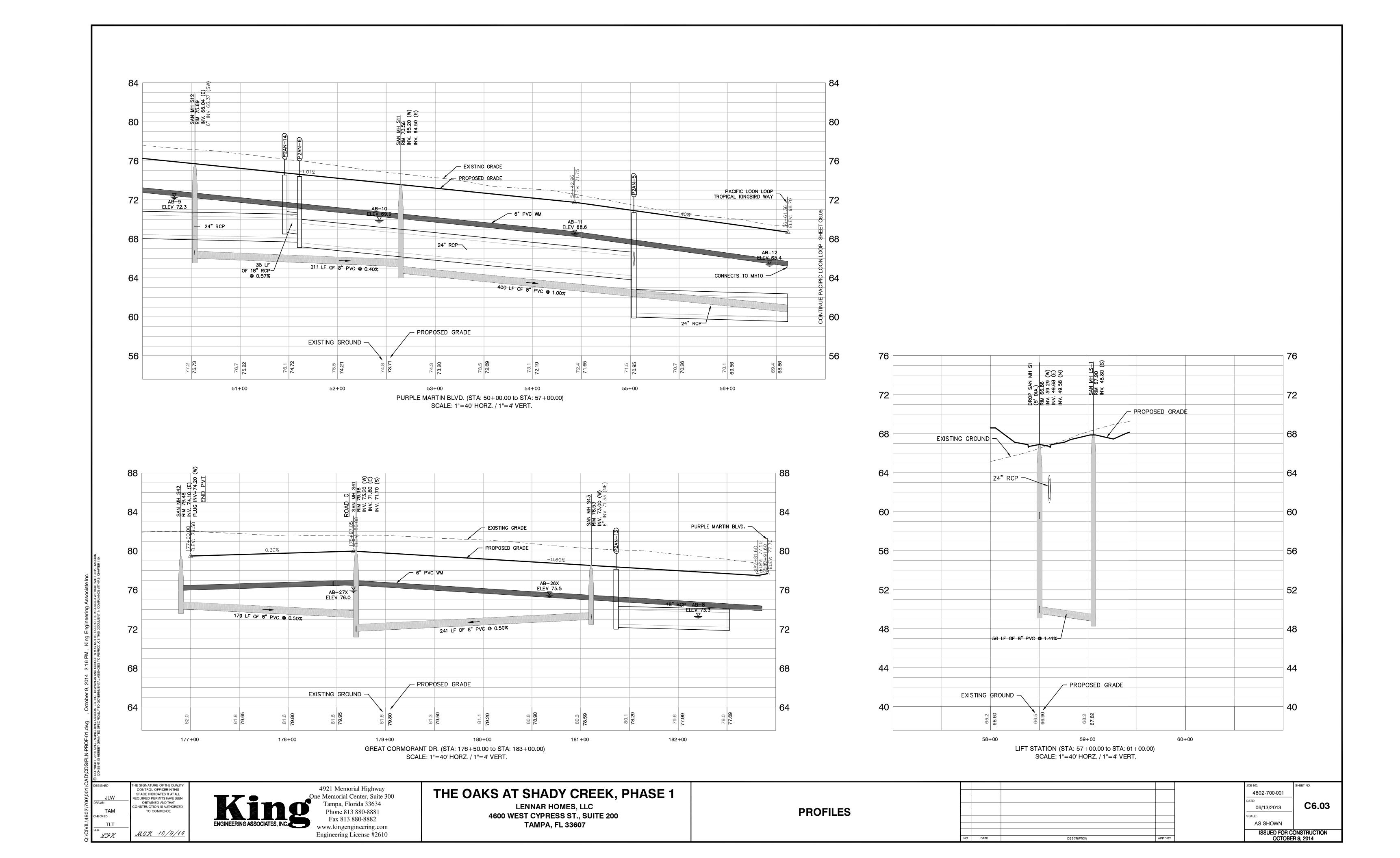
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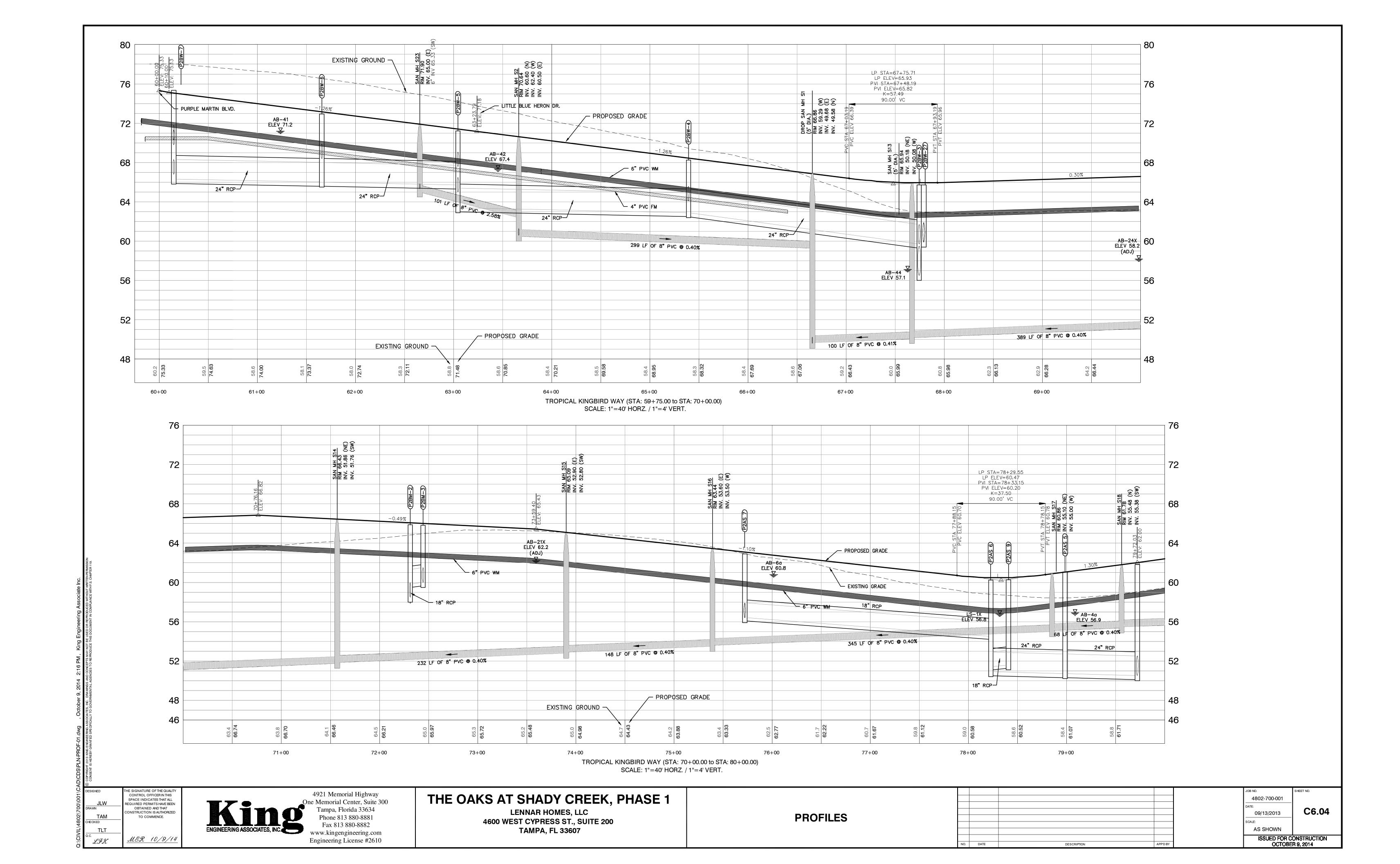
09/13/2013

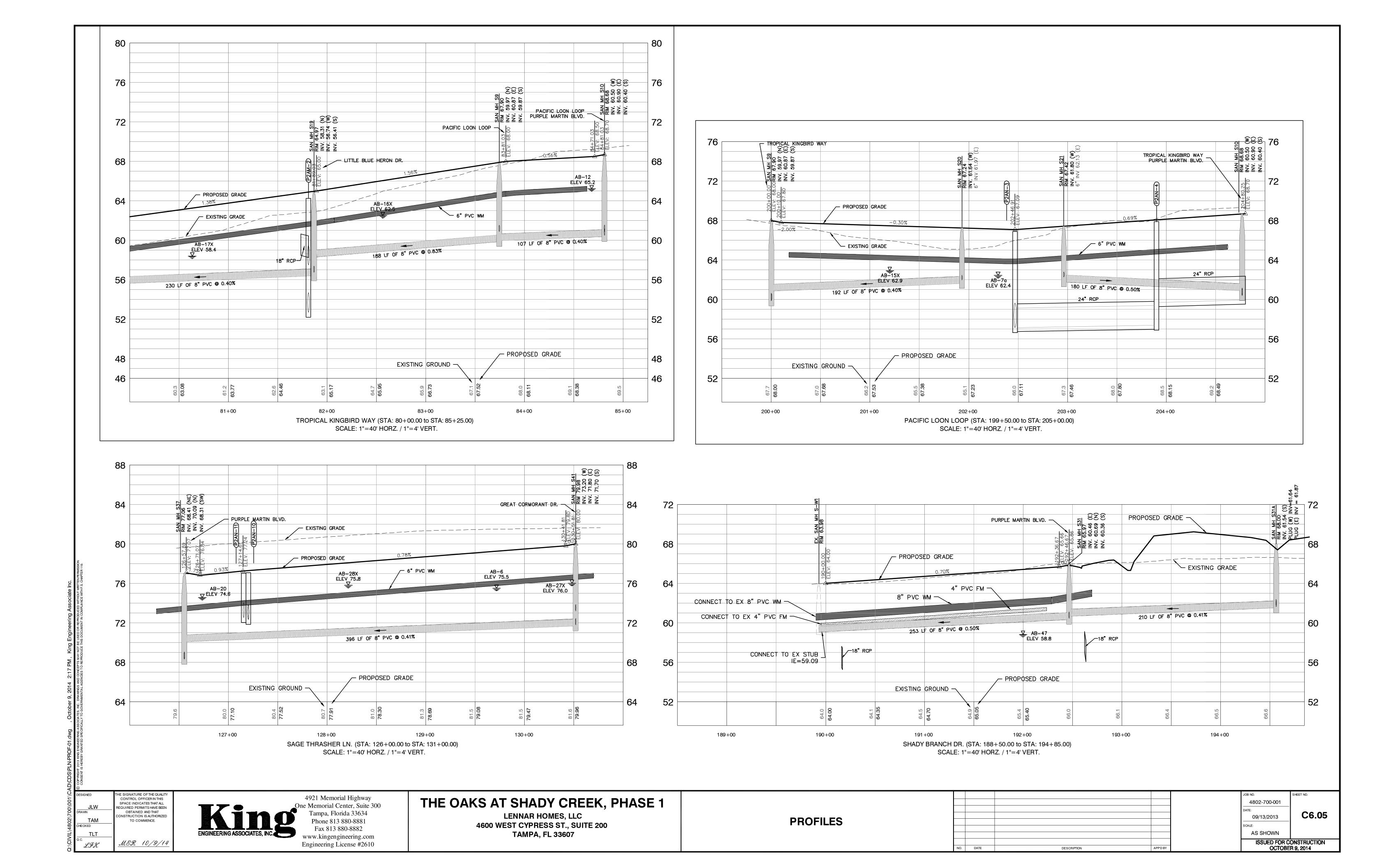
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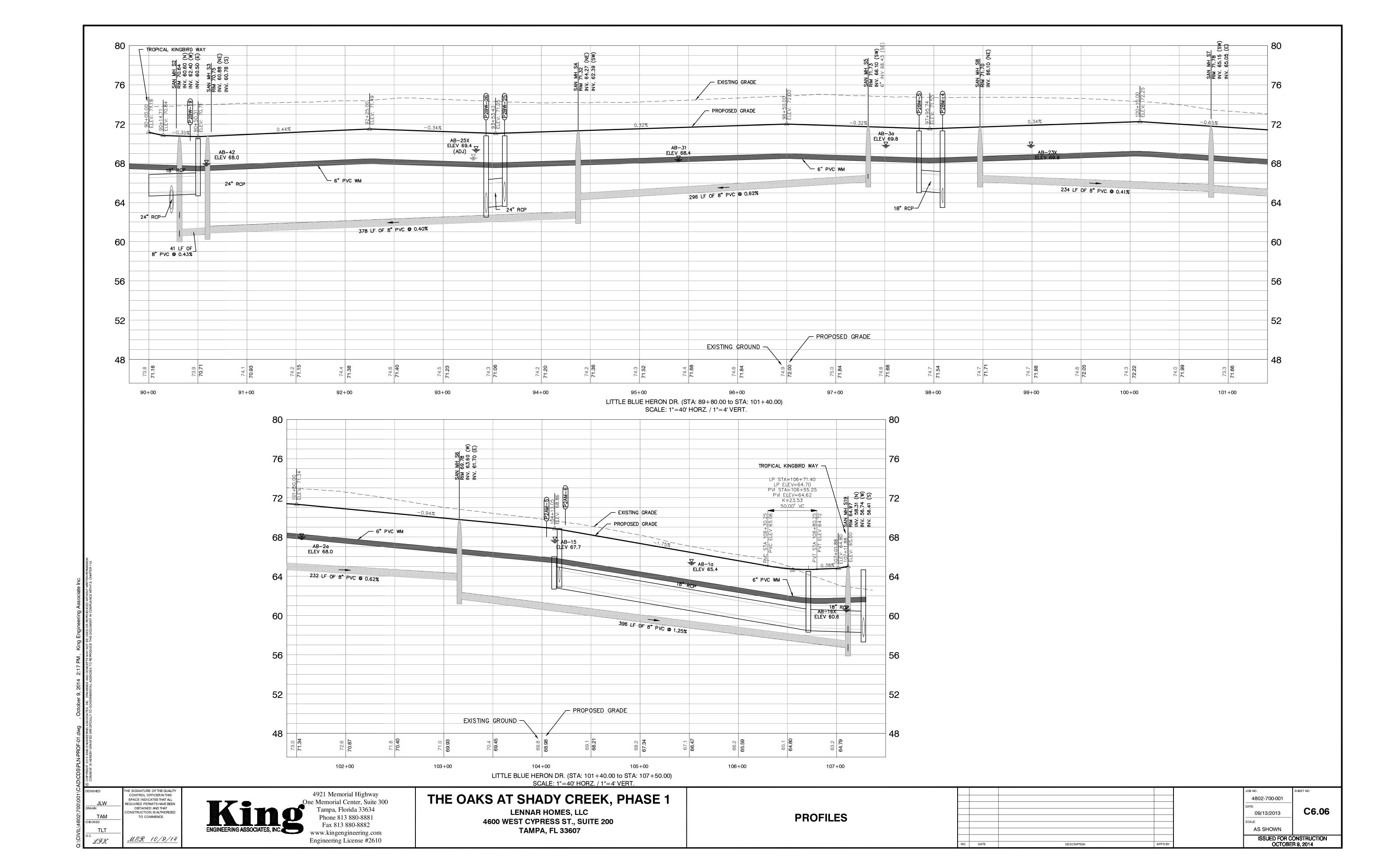
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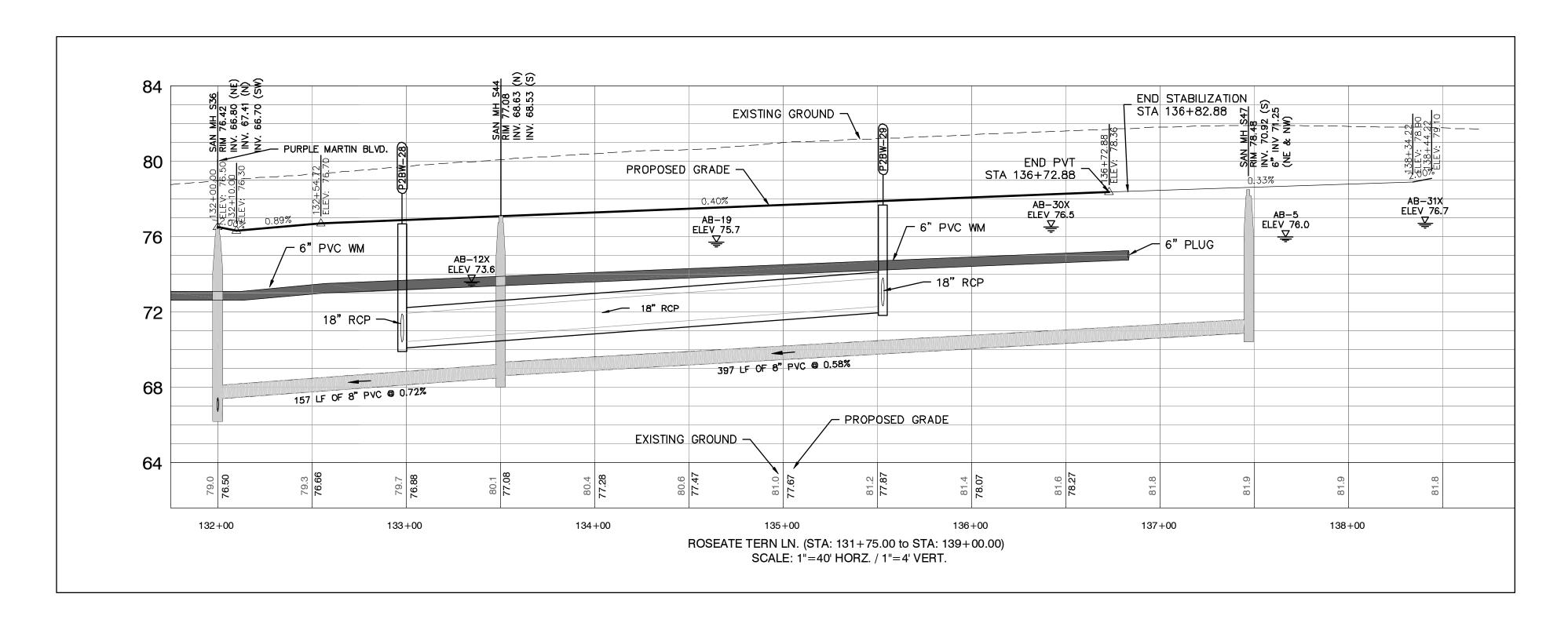
ISSUED FOR CONSTRUCTION OCTOBER 9, 2014

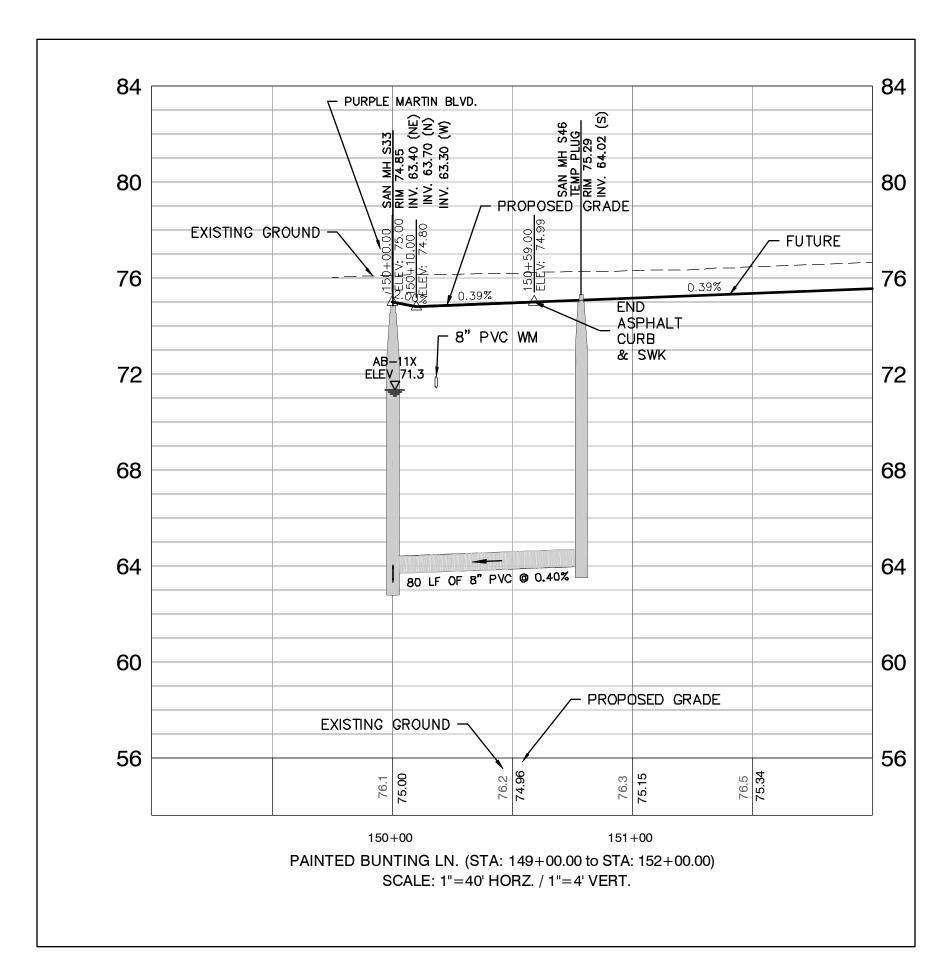


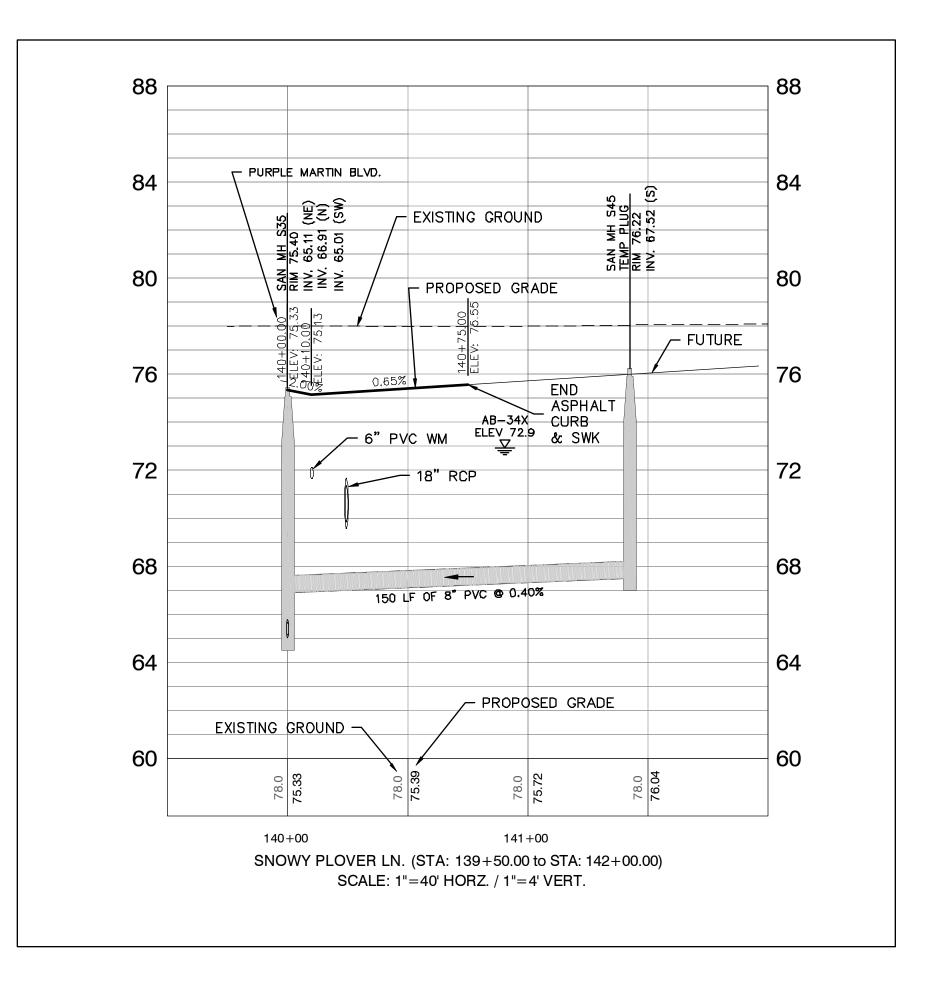












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PROFILES

JOB NO.
4802-700-001
DATE:
09/13/2013
SCALE:
AS SHOWN

ISSUED FOR CONSTRUCTION OCTOBER 9, 2014

CONSIGNITE 2013 KING ENGINEERING ASSOCIATES, INC. DRAWINGS AND CONCEPTS MAY NOT BE USED OR REPRODUCED WITH CONSIGNITION OF THE PRODUCE THIS DOCUMENT IN COMPLIANCE OF THE PRODUCE THIS DOCUMENT IN COMPLIANCE.

ALL SIDEWALKS TO BE CONSTRUCTED PER H.C. TTM SECTION 2.9, INCLUDING INCREASING SIDEWALK / PATH THICKNESS TO 6" ADJACENT TO RETENTION PONDS.

PURPLE MARTIN BLVD. (US 301 TO STA.

20+50) ALTERNATIVE PAVEMENT SECTION

DETERMINED BY AASHTO T-180)

FRICTION COURSE FC-9.5 (1") (RUBBER) TYPE SP STRUCTURAL COURSE (1-1/2") (SP12-5) OPTIONAL BASE GROUP 6 *

12" FDOT TYPE "B" STABILIZED SUBGRADE MIN LBR 40 (COMPACTED TO 98% MOD. PROCTOR MAX DRY DENSITY AS

DESIGN STRUCTURAL NUMBER (1")(0.44)+(1.5")(0.44)+(8")(0.18)+(12")(0.08) = 3.50

* LIMEROCK BASE SHALL BE EXCLUDED FROM OBG 6

LOCAL URBAN ROAD.
ALTERNATIVE PAVEMENT SECTION

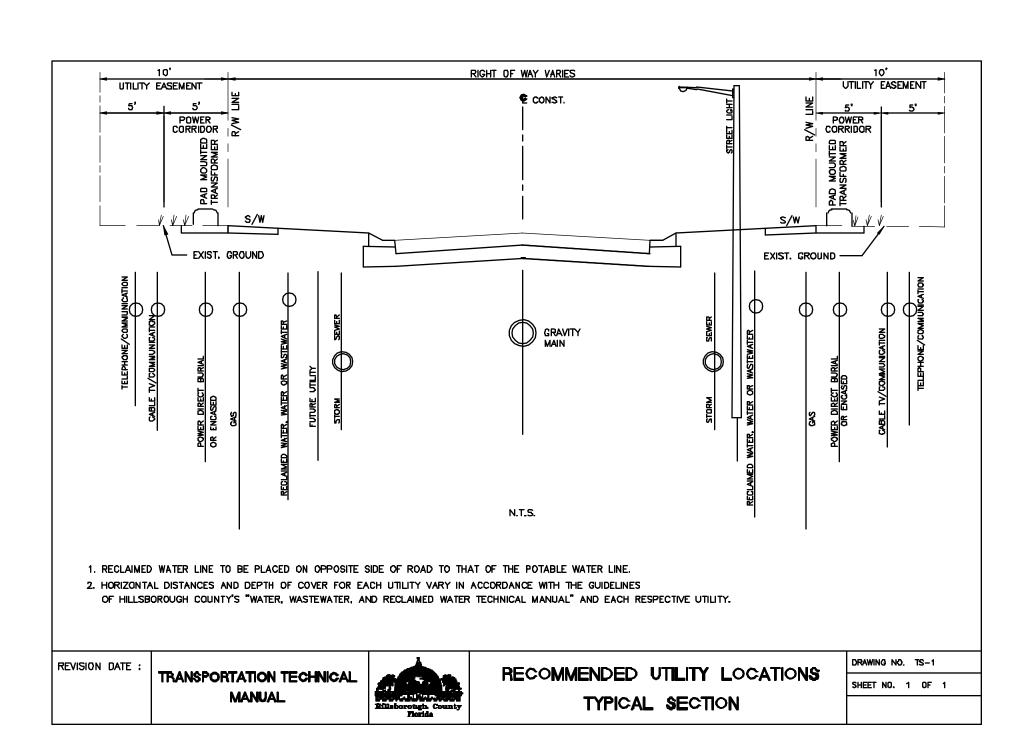
• TYPE SP STRUCTURAL COURSE (1-1/2") (SP12-5) OPTIONAL BASE GROUP 4 *

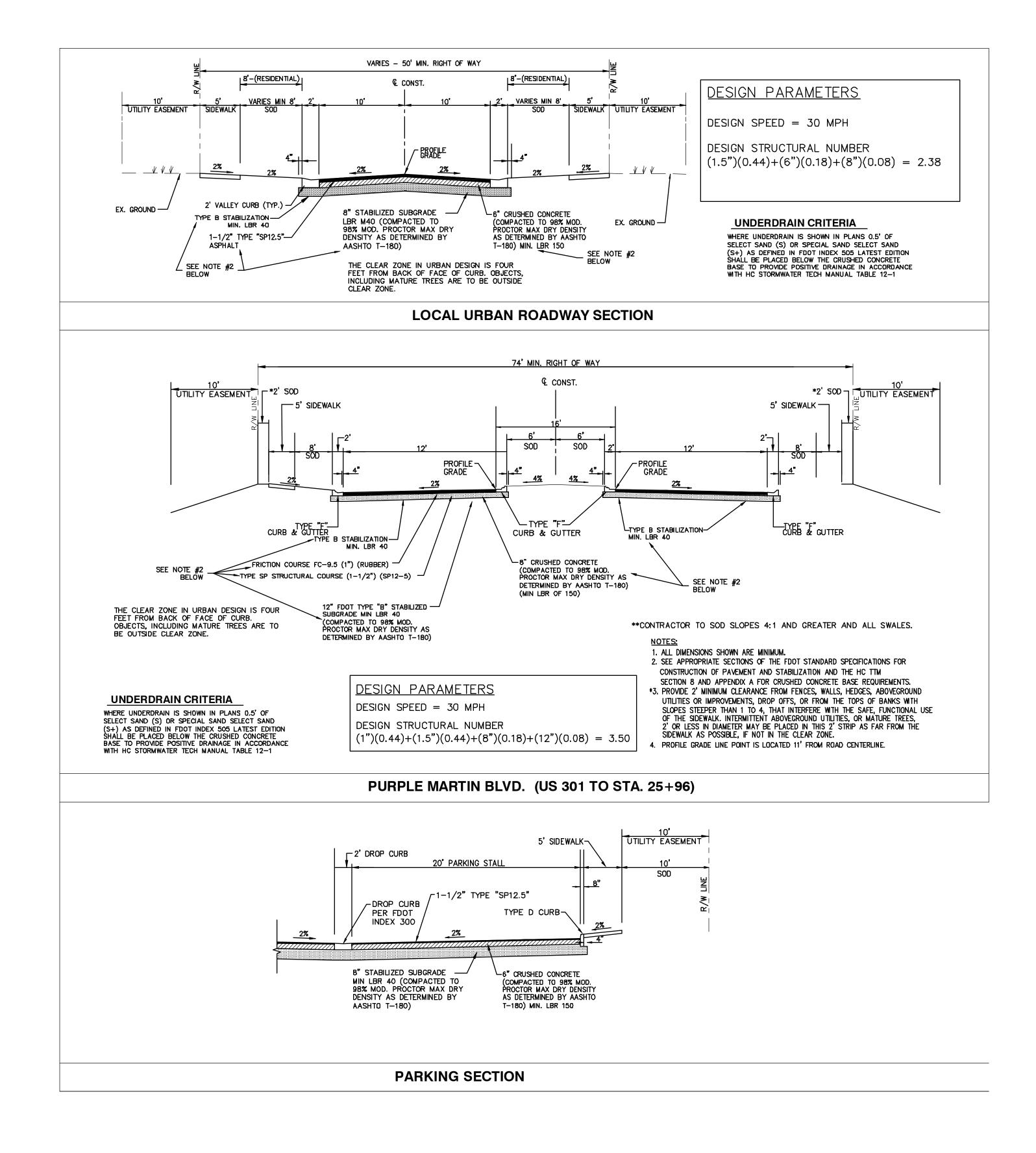
 8" FDOT TYPE "B" STABILIZED SUBGRADE MIN LBR 40 (COMPACTED TO 98% MOD. PROCTOR MAX DRY DENSITY AS

DETERMINED BY AASHTO T-180)

DESIGN STRUCTURAL NUMBER (1.5")(0.44)+(6")(0.18)+(8")(0.08) = 2.38

* LIMEROCK BASE SHALL BE EXCLUDED FROM OBG 4



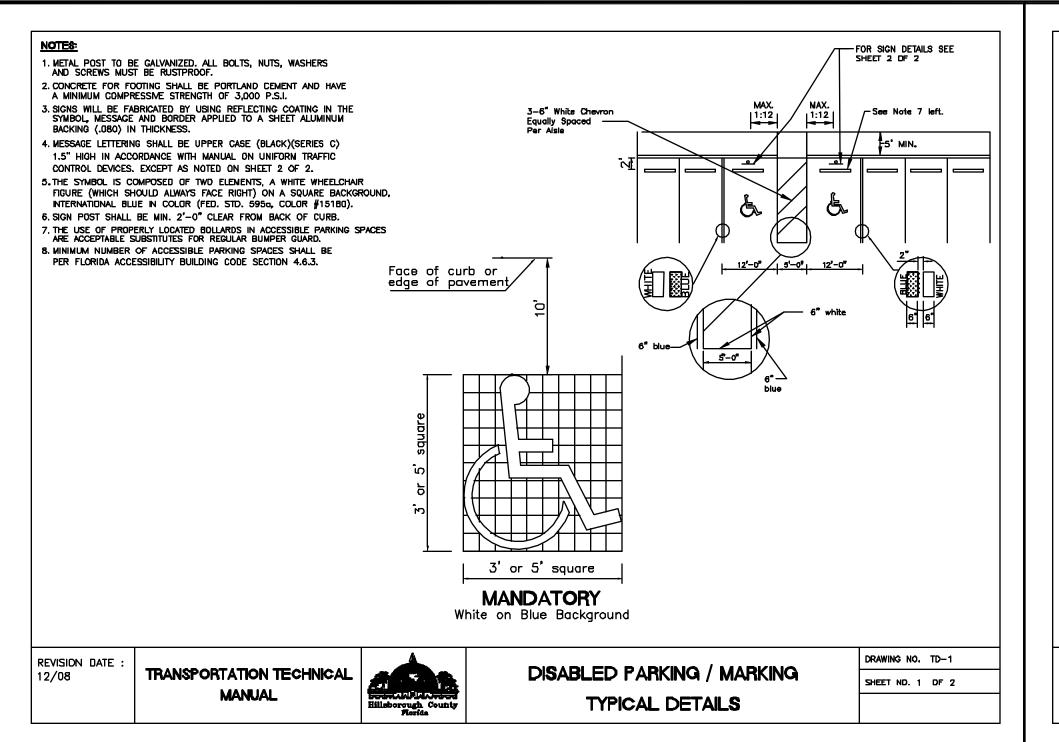


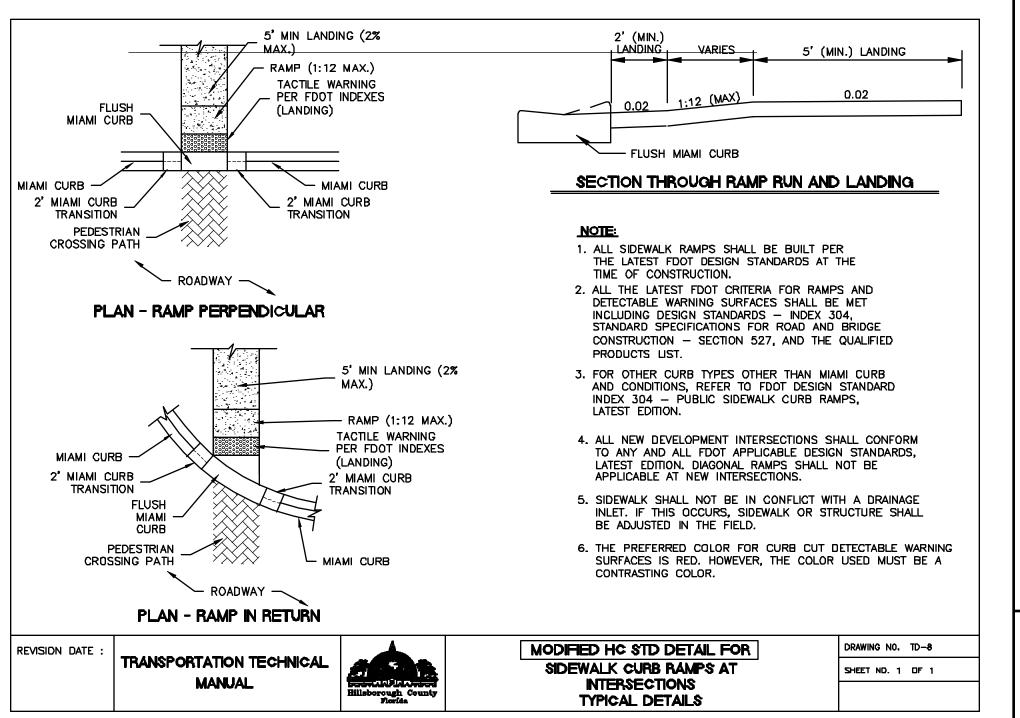
SPACE INDICATES THAT ALL QUIRED PERMITS HAVE BEEN OBTAINED AND THAT NSTRUCTION IS AUTHORIZED TO COMMENCE. MER 10/9/14

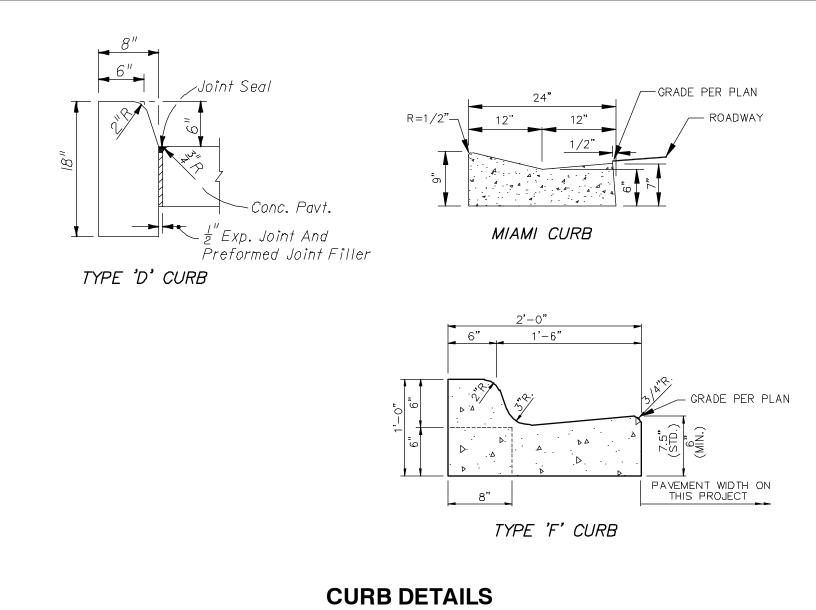


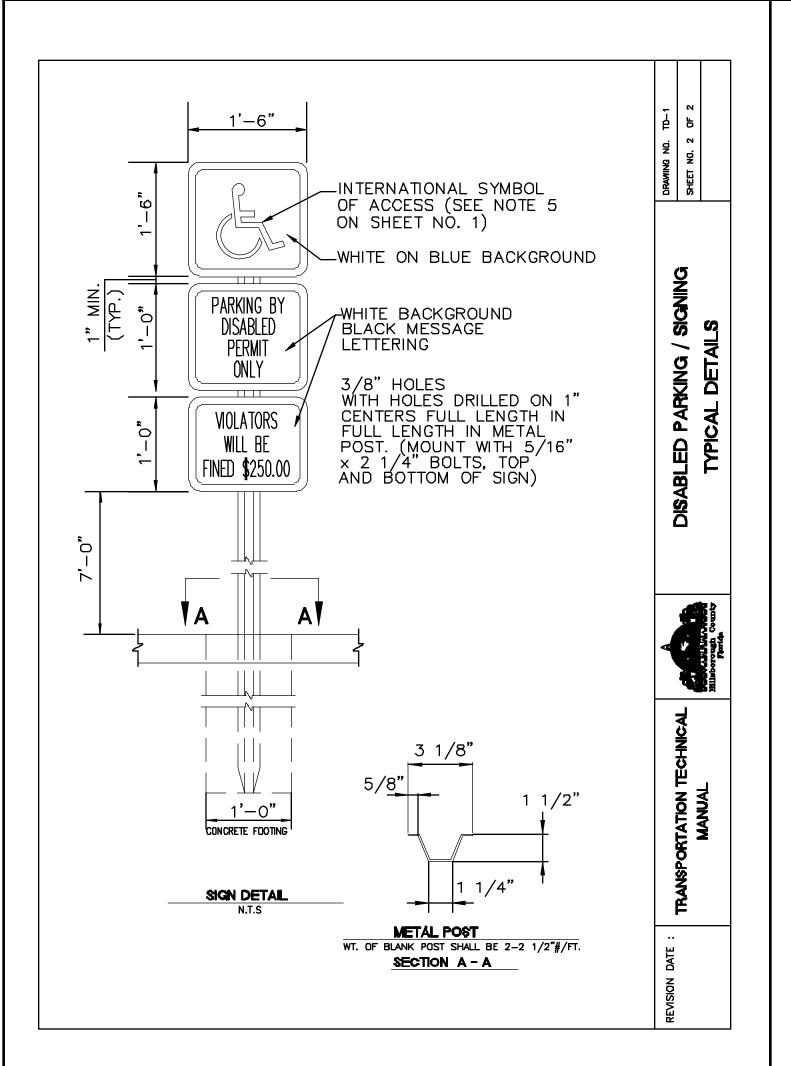
THE OAKS AT SHADY CREEK, PHASE 1

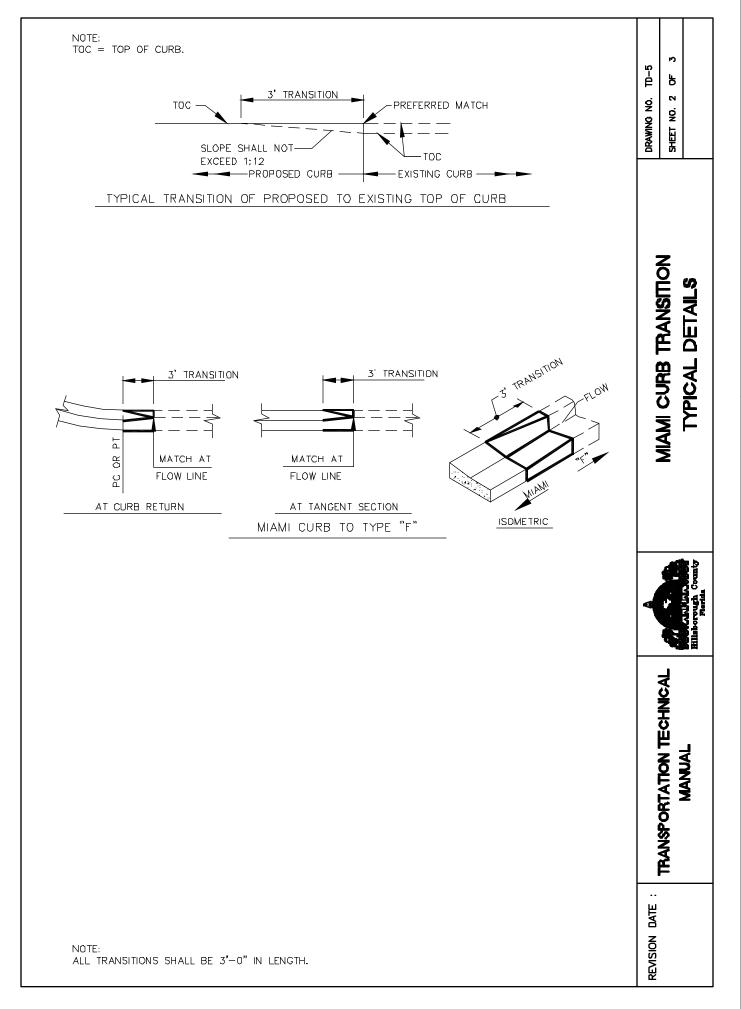
LENNAR HOMES, LLC 4600 WEST CYPRESS ST., SUITE 200 **TAMPA, FL 33607**

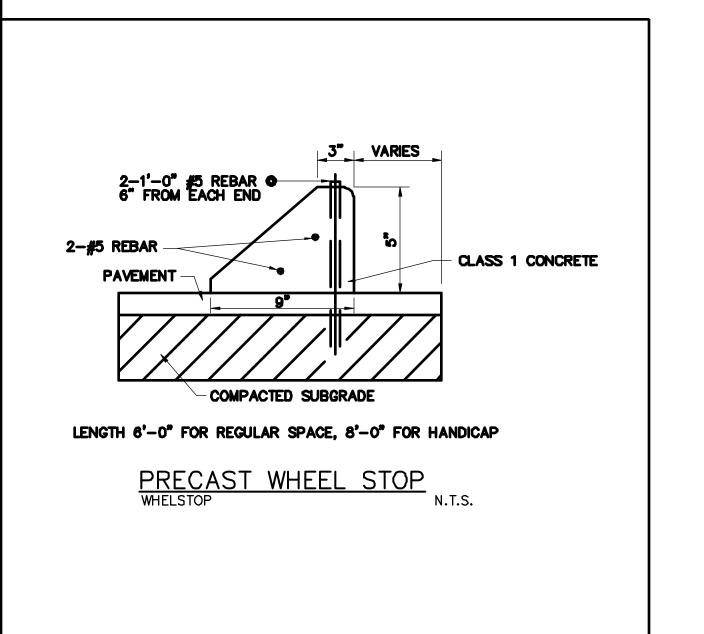












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TRISA

Q.C.

JANK

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CONTROL OFFICER IN THIS SPACE INDICATES THAT ALL REQUIRED PERMITS HAVE BEEN OBTAINED AND THAT CONSTRUCTION IS AUTHORIZED TO COMMENCE.

One Memorial Highway

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THE OAKS AT SHADY CREEK, PHASE 1

LENNAR HOMES, LLC 4600 WEST CYPRESS ST., SUITE 200 TAMPA, FL 33607

TYPICAL SECTIONS AND DETAILS

		JOB NO.	SHEET NO.	
		4802-700-001		
		DATE:		
		09/13/2013	C7.0	2
		SCALE:		
		AS SHOWN		
		ISSUED FOR C	NSTRUCTION	N
DESCRIPTION	APP'D BY	OCTOBE	R 9, 2014	

NOTED ON PLAN AS "IPD"

TEMPORARY SEDIMENT TRAP

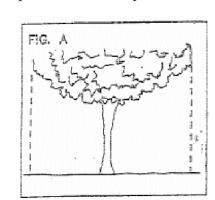
AT STORM DRAIN INLET

PROTECTIVE BARRIER REQUIREMENTS

SPECIFICATIONS FOR EXISTING TREES TO REMAIN

PROTECTIVE BARRIERS are used during land alteration and construction activities to protect trees and natural areas to be retained on a site.

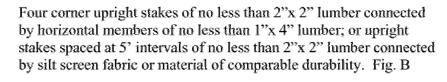
PROTECTIVE BARRIERS must be erected around TREES to be retained within an area where land alteration and construction activities will occur as well as along NATURAL AREAS where such areas are adjacent to permitted land alteration or construction activities. A PROTECTIVE BARRIER must remain in place until the land alteration and construction activities are completed or until commencement of grade finishing and sodding. No ground disturbance must occur within the barricaded area. The following represents the County's minimum protective barrier specifications.



 TREES – To restrict access into the area within the CANOPY DRIPLINE of a tree, a physical structure not less than 3 feet in height, comprised of wood or other suitable material, is placed around the tree at the CANOPY DRIPLINE, except where land alteration or construction activities are approved within the CANOPY DRIPLINE.

> The CANOPY DRIPLINE of a tree is the imaginary, vertical line that extends downward from the outermost tips of the tree's branches to the ground. Fig. A

BARRIER SPECIFICATIONS FOR TREES:



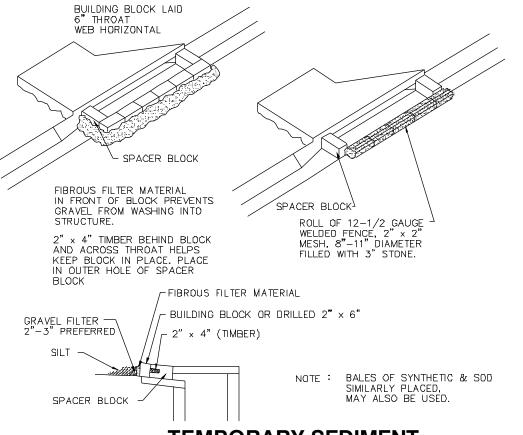
NATURAL AREAS - To restrict access into areas where land alteration and construction activities are not authorized a physical structure not less than 3 feet in height is placed along the perimeter of such areas.

BARRIER SPECIFICATIONS FOR NATURAL AREAS:

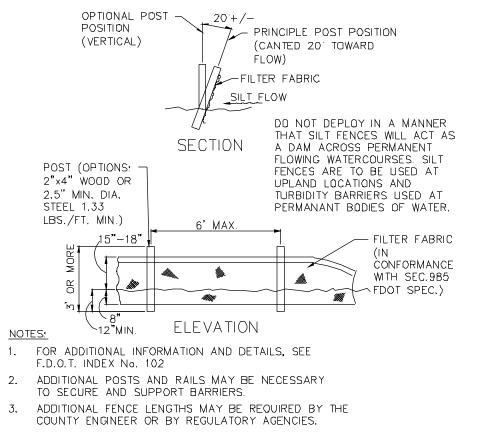
Upright stakes of no less than 2"x 2" lumber spaced no more than 25' apart and connected by twine flagged with plastic surveying tape at regular intervals of 5-10'. Fig. C. Other methods of demarcation will be considered depending upon the characteristics of the site.

WHY A BARRIER

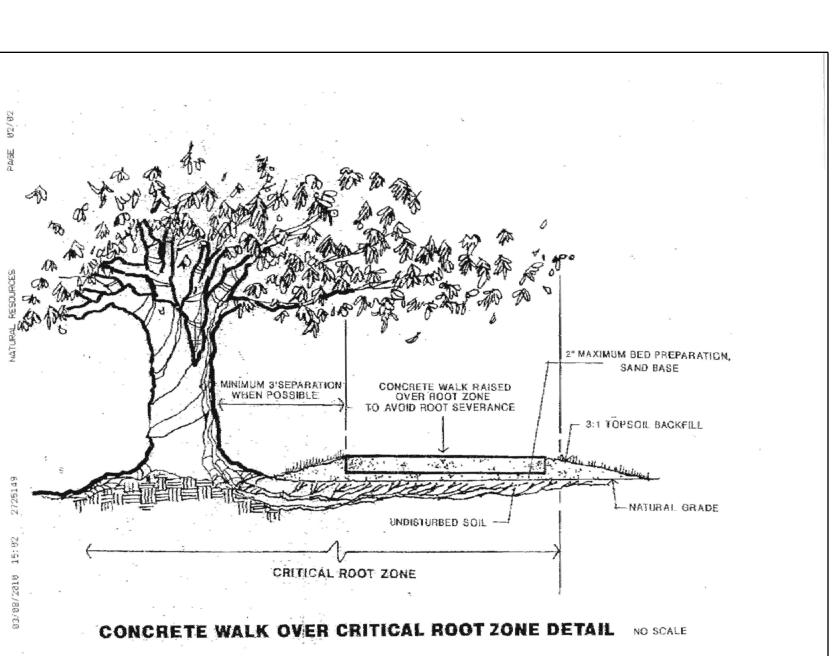
- 1. To protect all above ground portions of trees and other significant vegetation from mechanical damage.
- 2. To protect root systems from compaction. 3. To provide awareness of protected areas to equipment operators.

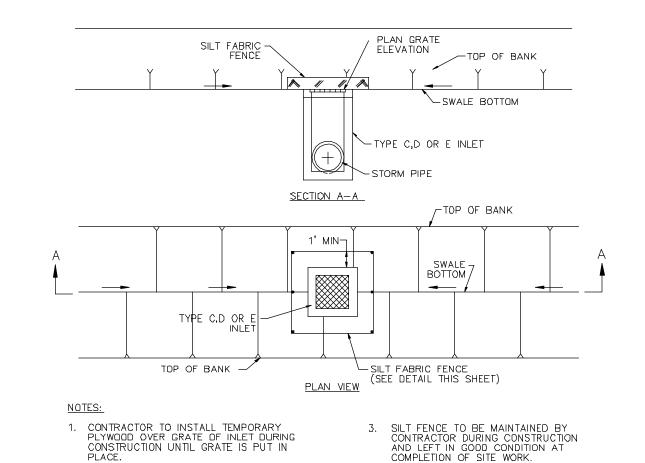


TEMPORARY SEDIMENT TRAP AT CURB INLET

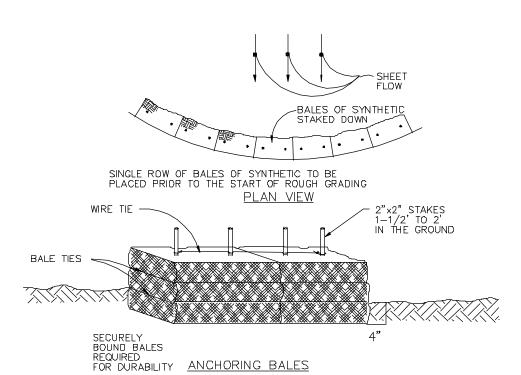


TYPE III SILT FENCE





BUILDING DIMSION SHALL BE RESPONSIBLE FOR MAINTENANCE OF SILT FENCES AND SEDIMENT IN PIPES AFTER ACCEPTANCE OF SITE WORK. **TEMPORARY SILT FENCE**



TEMPORARY SYNTHETIC BALE SEDIMENT BARRIER

N.T.S.

EROSION AND SEDIMENTATION CONTROL

THE INSTALLATION OF TEMPORARY EROSION CONTROL BARRIERS SHALL BE COORDINATED WITH THE CONSTRUCTION OF THE PERMANENT EROSION CONTROL FEATURES TO THE EXTENT NECESSARY TO ASSURE ECONOMICAL, EFFECTIVE AND CONTINUOUS CONTROL OF EROSION AND WATER POLLUTION THROUGHOUT THE LIFE OF THE CONSTRUCTION PHASE.

2. THE TYPE OF EROSION CONTROL BARRIERS USED SHALL BE GOVERNED BY THE NATURE OF THE CONSTRUCTION OPERATION AND SOIL TYPE THAT WILL BE EXPOSED. SILTY AND CLAYEY MATERIAL USUALLY REQUIRE SOLID SEDIMENT BARRIERS TO PREVENT TURBID WATER DISCHARGE, WHILE SANDY MATERIAL MAY NEED ONLY SILT SCREENS OR SYNTHETIC BALES TO PREVENT EROSION. FLOATING TURBIDITY CURTAINS SHOULD BE USED IN OPEN WATER SITUATIONS. DIVERSION DITCHES OR SWALES MAY BE REQUIRED TO PREVENT TURBID STORMWATER RUNOFF FROM BEING DISCHARGED TO WETLANDS OR OTHER WATER BODIES. IT MAY BE NECESSARY TO EMPLOY A COMBINATION OF BARRIERS, DITCHES, AND OTHER EROSION/TURBIDITY CONTROL MEASURES IF CONDITIONS WARRANT.

. WHERE PUMPS ARE TO BE USED TO REMOVE TURBID WATERS FROM THE CONSTRUCTION AREA. THE WATER SHALL BE TREATED TO REDUCE TURBIDITY TO STATE WATER QUALITY STANDARDS PRIOR TO DISCHARGE TO THE WETLANDS. TREATMENT METHODS INCLUDE, FOR EXAMPLE, TURBID WATER BEING PUMPED INTO GRASSED SWALES OR APPROPRIATE VEGETATED AREAS (OTHER THAN UPLAND PRESERVATION AREAS AND WETLAND BUFFERS), SEDIMENT BASINS, OR CONFINED BY AN APPROPRIATE ENCLOSURE SUCH AS TURBIDITY BARRIERS, AND KEPT CONFINED UNTIL ITS TURBIDITY LEVEL MEETS STATE WATER QUALITY STANDARDS.

4. THE CONTRACTOR SHALL PROVIDE ROUTINE MAINTENANCE OF PERMANENT AND TEMPORARY EROSION CONTROL FEATURES UNTIL THE PROJECT IS COMPLETE AND ALL BARED SOIL STABILIZED. SILTATION ACCUMULATIONS GREATER THAN THE LESSER OF 12 INCHES OR ONE-HALF THE DEPTH OF THE SILTATION CONTROL BARRIER SHALL BE IMMEDIATELY REMOVED AND PLACED IN UPLAND AREAS.

i. WATER REMAINING IN THE EXCAVATIONS AFTER CONSTRUCTION MUST BE KEPT CONFINED WITHIN THE EXCAVATIONS PRIOR TO DISCHARGE (IF APPLICABLE), UNTIL THE TURBIDITY LEVEL OF THE POND WATER MEETS STATE WATER QUALITY STANDARDS.

6. NO CLAY MATERIAL SHALL BE LEFT EXPOSED IN THE EXCAVATIONS. IF CLAY OR SANDY CLAYS ARE LEFT EXPOSED AT THE PERMITTED DEPTH, THE CONTRACTOR SHALL OVER EXCAVATE THE POND'S BOTTOM AND SIDE SLOPES BY A MINIMUM OF 12 INCHES AND BACKFILL WITH CLEAN SANDS.

PROVIDE ALL DISTURBED AREAS WITHIN THE LIMITS OF THE WORK WITH TEMPORARY SOIL EROSION CONTROL AND SEDIMENT CONTROL, UTILIZING EARTH DAMS & PONDS, GRADE TO DRAIN SWALES, SETTLING BASINS, SILT FENCES, STONE FILTERS, SYNTHETIC BALE FILTERS, ETC., TREATING ALL SOIL SURFACES WITH SEEDED TOPSOIL AND / OR MULCH AFTER GRADING.

8. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCE OR IN THEIR PROPER SEQUENCE, AND MAINTAINED UNTIL PERMANENT PROTECTION

9. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND AIR AND WATER POLLUTION WILL BE MINIMIZED. STATE AND LOCAL LAWS SHALL BE COMPLIED WITH AT

10. TO MINIMIZE SOIL EROSION, PROPOSED LAND ALTERATION ACTIVITIES SHALL NOT UNNECESSARILY REMOVE EXISTING VEGETATION AND ALTER EXISTING TOPOGRAPHY. ADEQUATE PROTECTION MEASURES (I.E. SYNTHETIC BALES, BAFFLES, SODDING AND SANDBAGGING) SHALL BE PROVIDED, AS NECESSARY, TO MINIMIZE EROSION AND DOWNSTREAM SEDIMENTATION CAUSED BY SURFACE WATER RUN-OFF ON EXPOSED LAND SURFACES.

II. PERMANENT VEGETATION SHALL BE BY SEEDING OR SODDING ALL EXPOSED AREAS WITHIN THREE DAYS AFTER FINAL GRADING. MULCH SHALL BE USED AS NECESSARY FOR PROTECTION UNTIL 75% GROWTH IS ESTABLISHED, AT THE TIME WHEN THE SITE PREPARATION FOR PERMANENT VEGETATIVE STABILIZATION IS GOING TO BE ACCOMPLISHED, ANY SOIL WHICH WILL NOT PROVIDE A SUITABLE ENVIRONMENT TO SUPPORT ADEQUATE VEGETATIVE GROUND COVER SHALL BE REMOVED OR TREATED IN SUCH A WAY AS TO PERMANENTLY ADJUST THE SOIL CONDITIONS AND RENDER IT SUITABLE FOR VEGETATIVE GROUND COVER.

12. ALL NEW EROSION AND SILT CONTROL METHODS AND LOCATIONS INDICATED ON THIS DRAWING ARE FOR START-UP AND GENERAL REFERENCE ONLY AND SHALL BE ADJUSTED, AS REQUIRED, TO SUIT THE PROCESS OF THE CONSTRUCTION.

13. ANY AREAS SUBJECT TO EROSION MUST BE ADEQUATELY STABILIZED WITH VEGETATIVE MATERIAL THAT WILL, WITHIN A REASONABLE TIME FRAME, DETER SOIL DISTURBANCE. SODDING, PLUGGING, SPRIGGING, OR SEEDING IS ACCEPTABLE FOR STABILIZATION; HOWEVER, SODDING MAY BE REQUIRED IN AREAS OF EROSION-PRONE SOILS OR WHERE SLOPES ARE GREATER THAN 5:1. VEGETATION OTHER THAN GRASS IS ACCEPTABLE UNLESS OTHERWISE SPECIFIED.

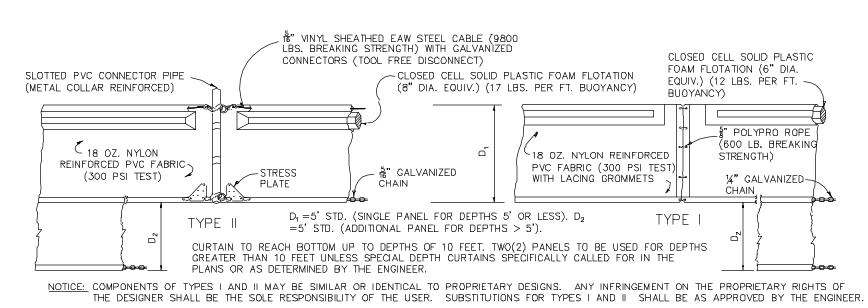
FOR COMMERCIAL SITE DEVELOPMENT PROJECTS, NO MORE THAN 50% OF THE LANDSCAPED AREA MAY BE PLANTED WITH SHALLOW-ROOTED (I.E., ST AUGUSTINE) TURF GRASS VARIETIES. THESE TURF GRASS VARIETIES SHALL BE CONSOLIDATED IN AND LIMITED TO AREAS THAT ARE PROVIDED WITH CENTRAL AUTOMATIC IRRIGATION SYSTEMS. A METHOD OF STABILIZATION MUST BE SHOWN ON THE SITE DEVELOPMENT CONSTRUCTION PLANS.

14. SEE PGD PLANS FOR ADDITIONAL EROSION CONTROL LOCATION INFORMATION AND DETAILS.

15. CONTRACTOR TO COMPLY WITH ALL REGULATIONS AS SET FORTH BY THE FDEP NPDES STORMWATER REGULATORY PROGRAM.

16. CONTRACTOR TO CONSTRUCT PROPOSED STORMWATER PONDS IN EITHER CELLS OR SEQUENCED SO THAT THE FIRST PONDS FUNCTION AS SEDIMENT BASINS TO SEPARATE SUSPENDED SOLIDS FROM PRODUCED GROUNDWATER, ALL PRODUCED GROUNDWATER MUST MEET CRITERIA OF "STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION GENERIC PERMIT FOR THE DISCHARGE OF PRODUCED GROUNDWATER FROM ANY NON-CONTAMINATED SITE ACTIVITY" EFFECTIVE DATE FEBRUARY 14, 2000; DOCUMENT NUMBER 62-621.300(2).

17. DURING LAND ALTERATION AND CONSTRUCTION ACTIVITIES, IT SHALL BE UNLAWFUL TO REMOVE VEGETATION BY GRUBBING OR TO PLACE SOIL DEPOSITS, DEBRIS, SOLVENTS, CONSTRUCTION MATERIAL, MACHINERY OR OTHER EQUIPMENT OF ANY KIND WITHIN THE DRIPLINE OF A TREE TO REMAIN ON THE SITE UNLESS OTHERWISE APPROVED BY THE COUNTY.



FLOATING TURBIDITY BARRIERS

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4921 Memorial Highway ne Memorial Center, Suite 300 Γampa, Florida 33634 Phone 813 880-8881 Fax 813 880-8882 www.kingengineering.com Engineering License #2610

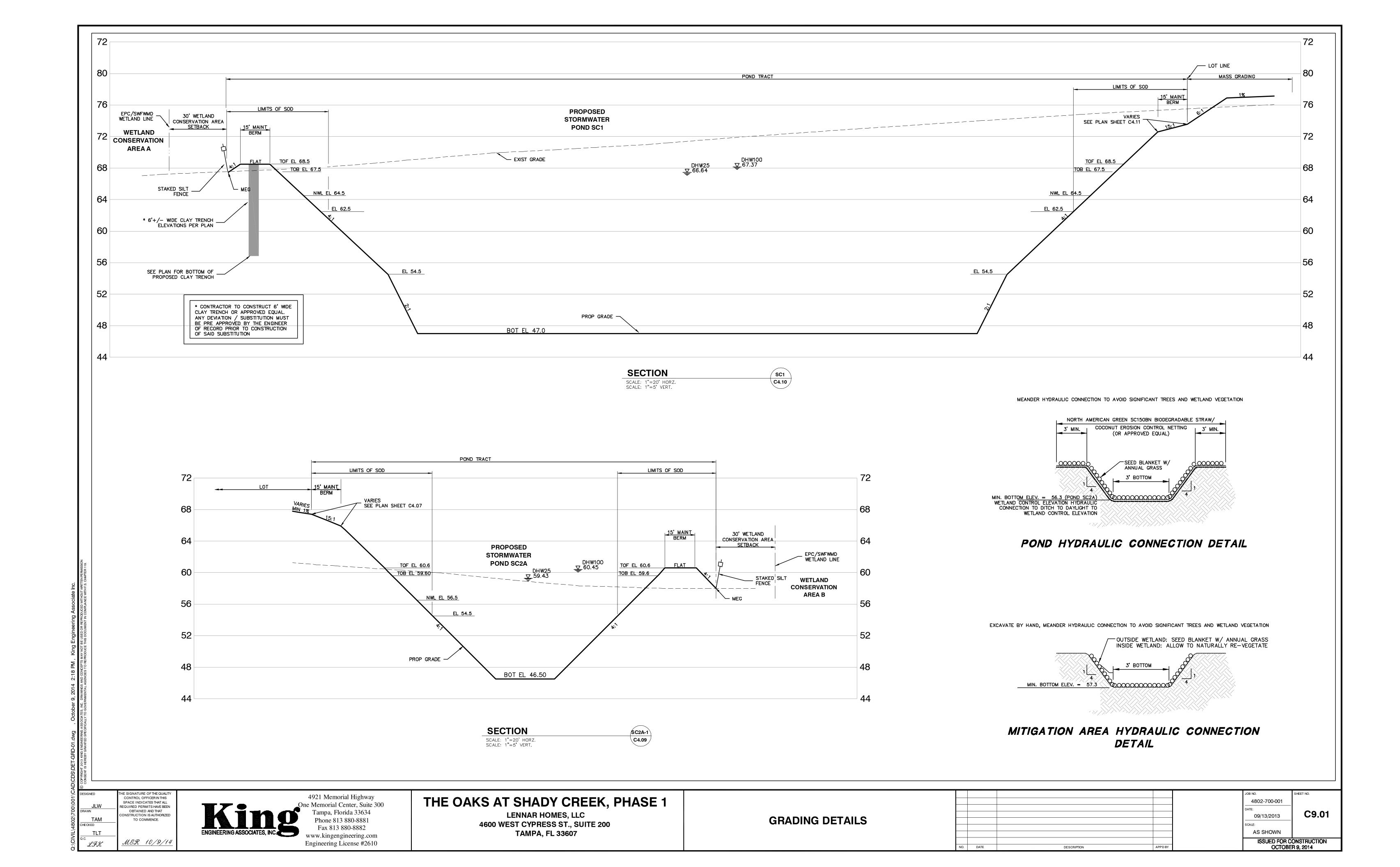
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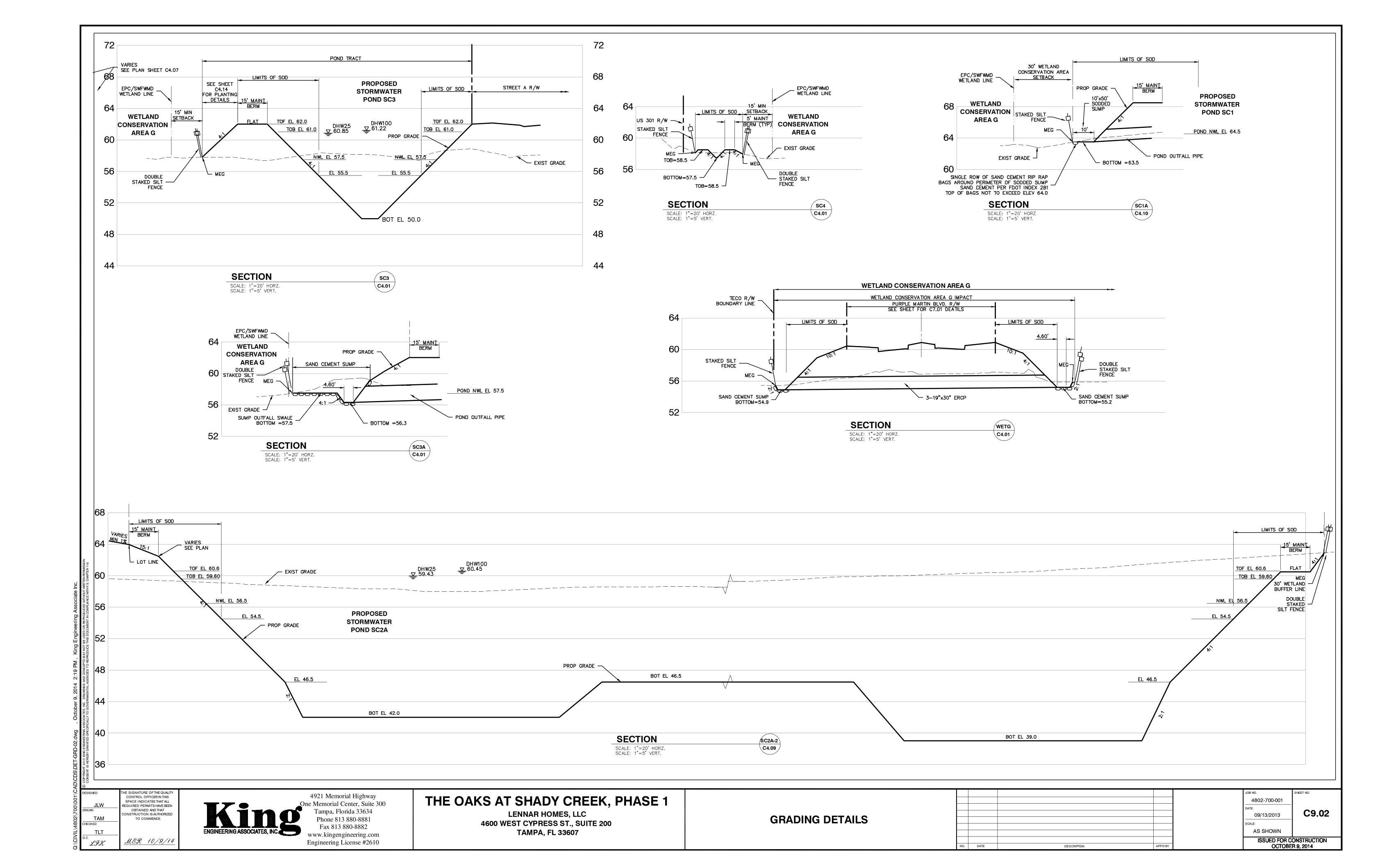
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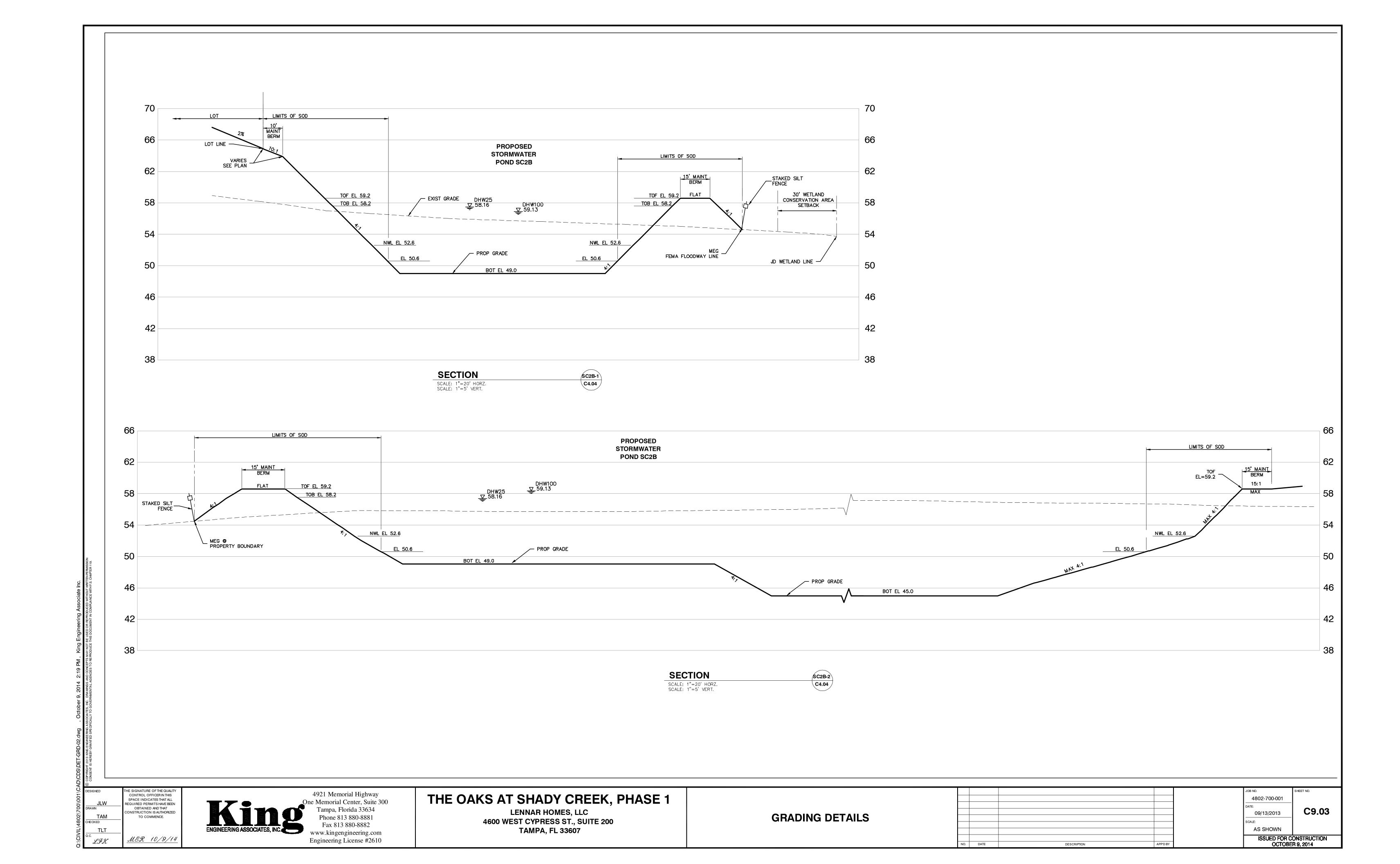
EROSION CONTROL DETAILS

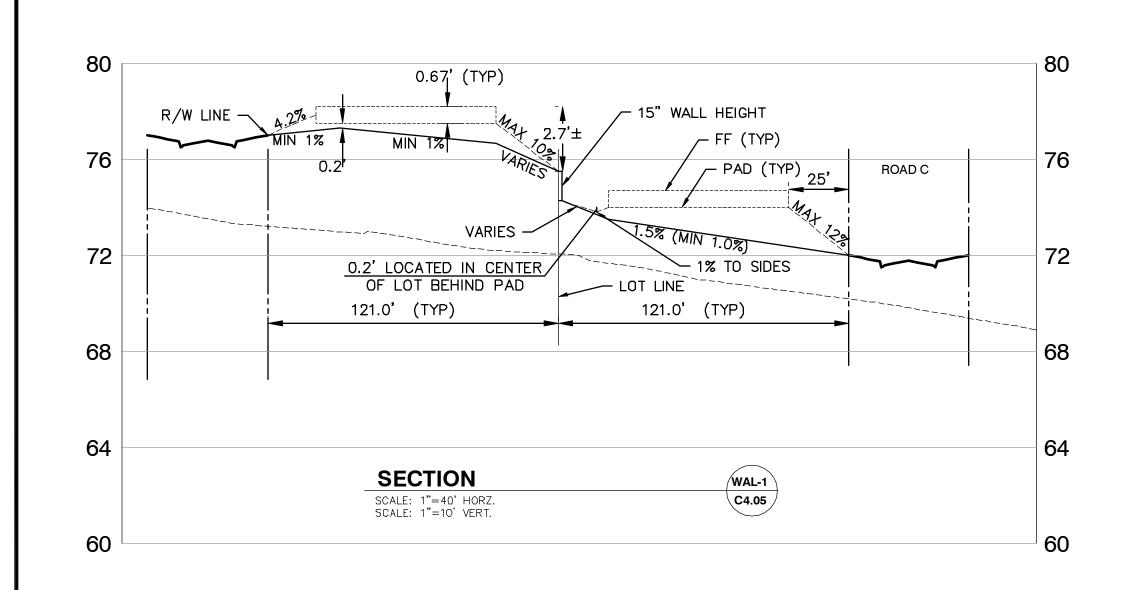
4802-700-001 09/13/2013 AS SHOWN ISSUED FOR CONSTRUCTION OCTOBER 9, 2014

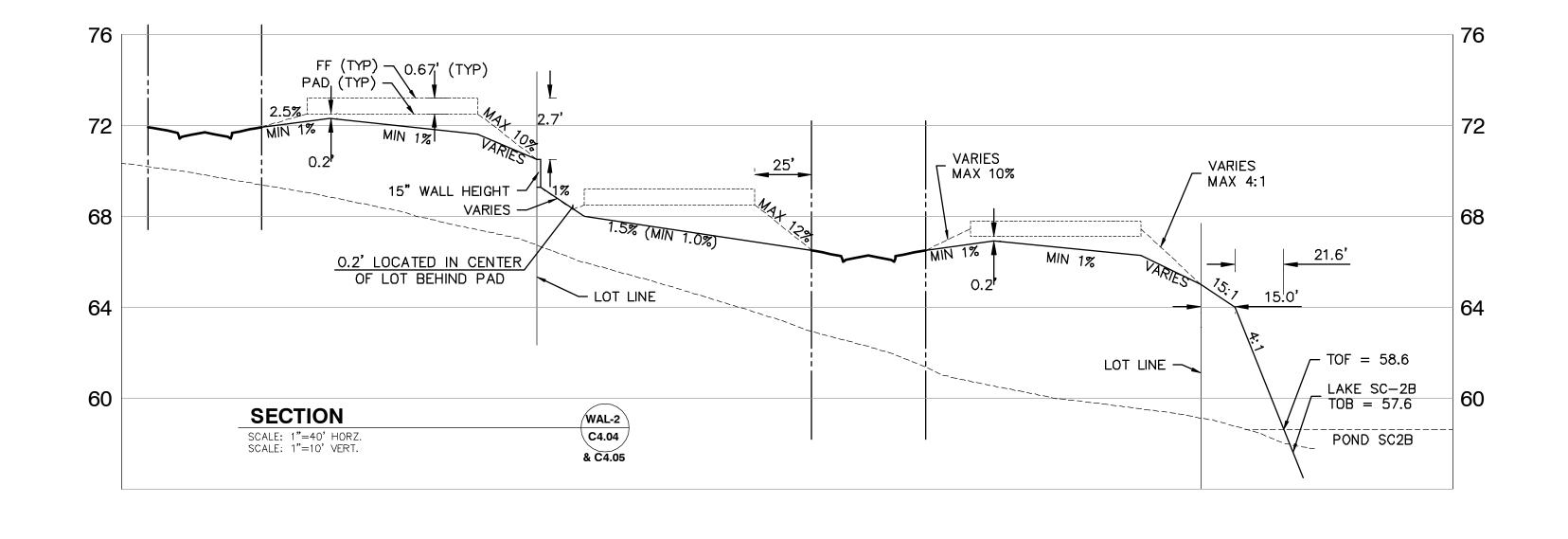
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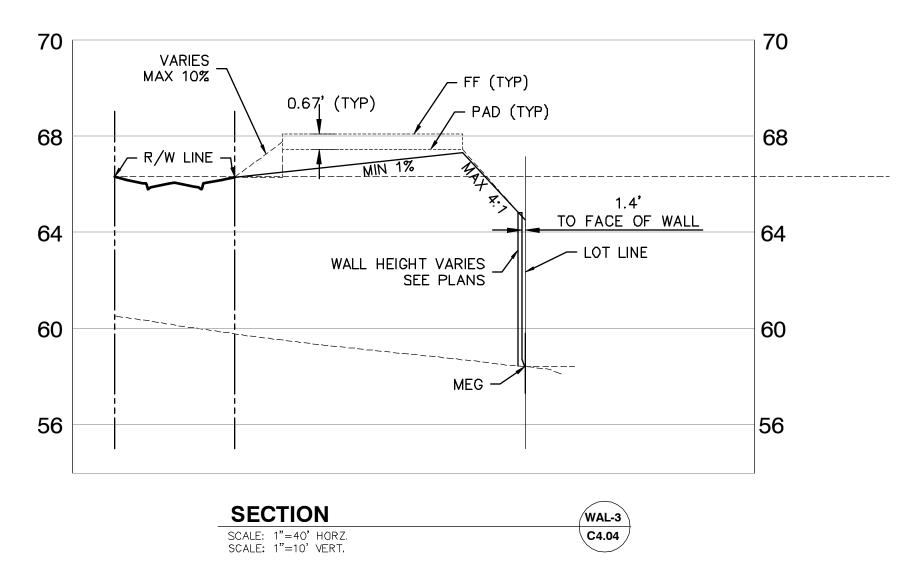


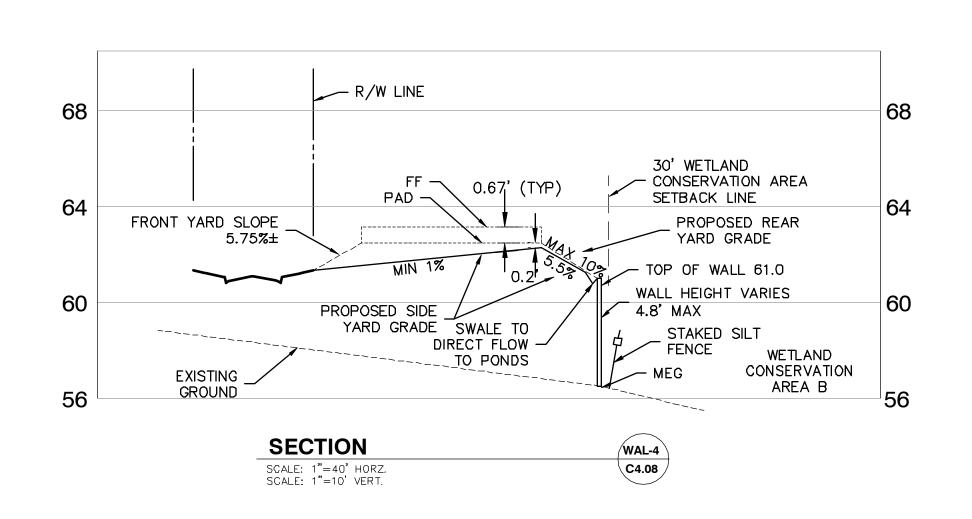












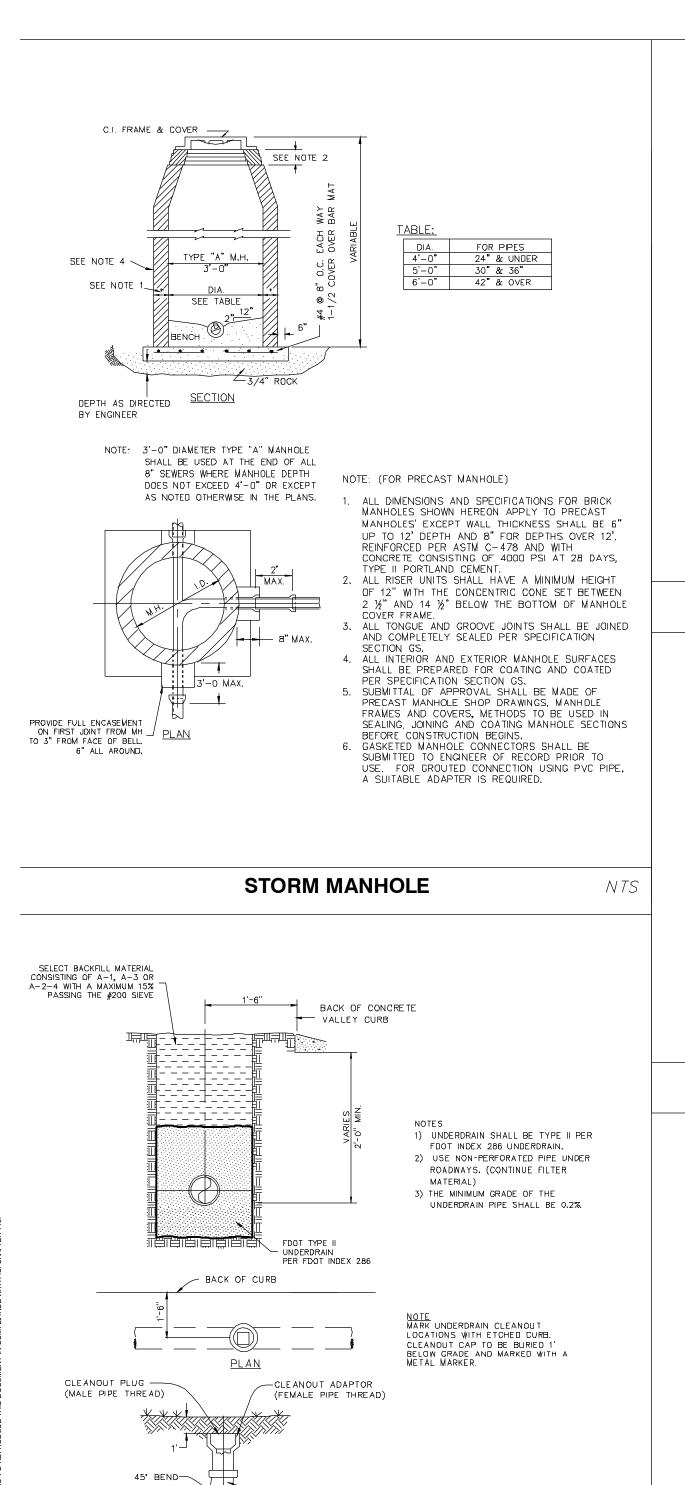
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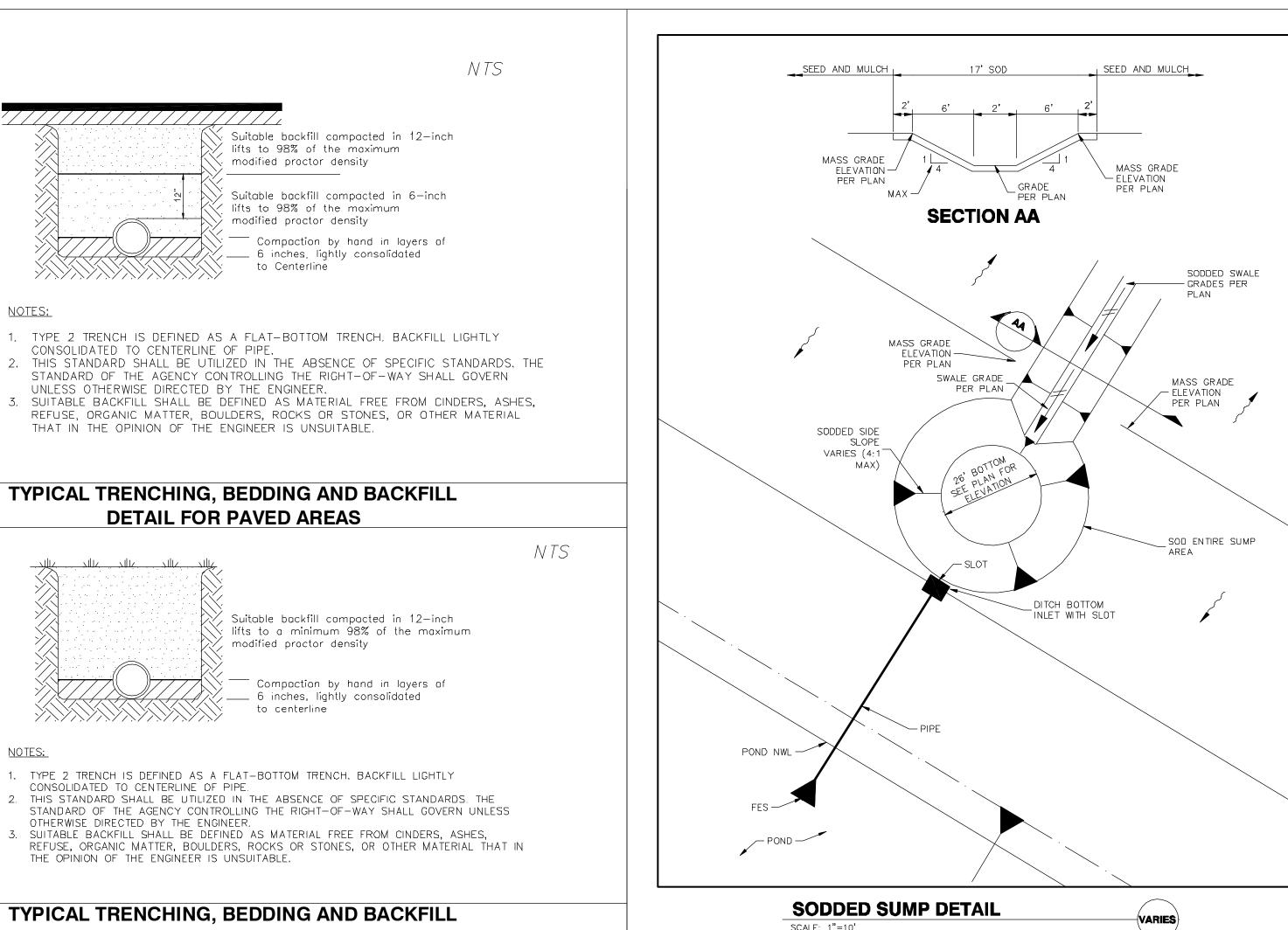
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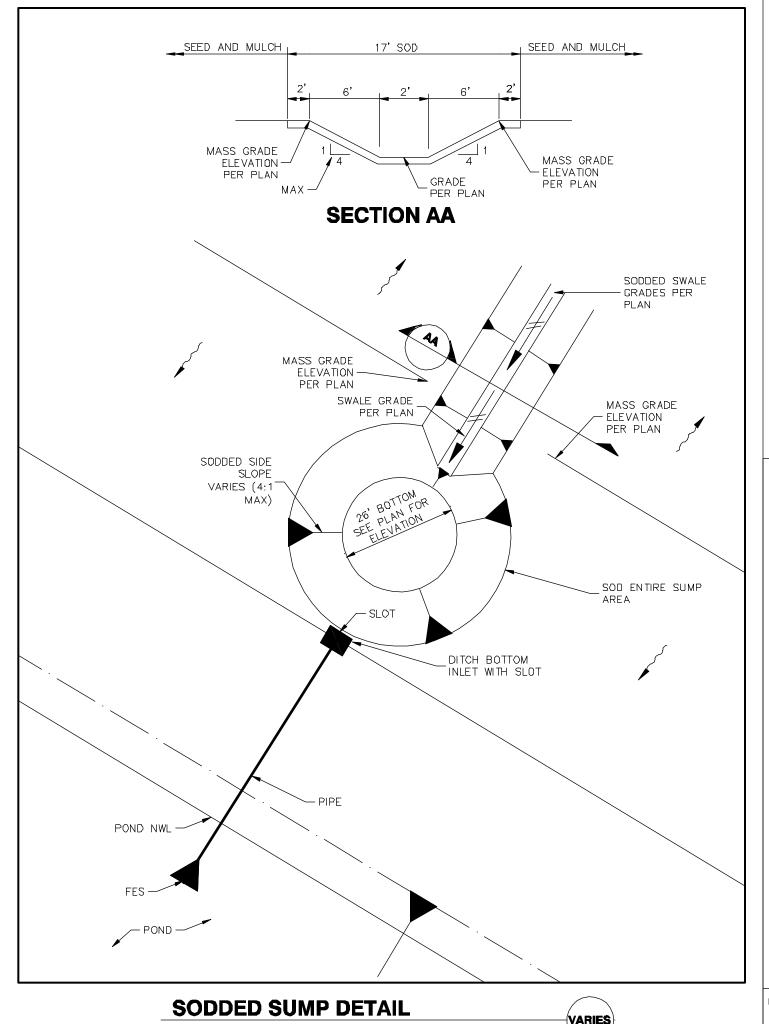
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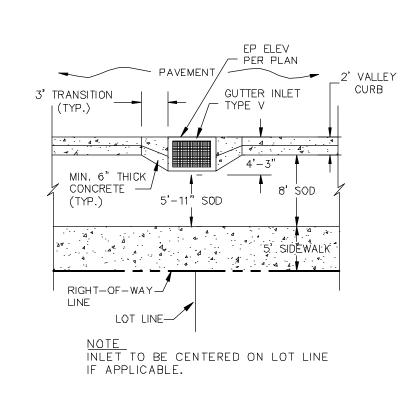
GRADING DETAILS

		JOB NO.		SHEET NO.
		4802	2-700-001	
		DATE:		00.05
		09/1	13/2013	C9.04
		SCALE:		
		ASS	SHOWN	
				ONSTRUCTION
DESCRIPTION	APP'D BY	15	OCTOBE	
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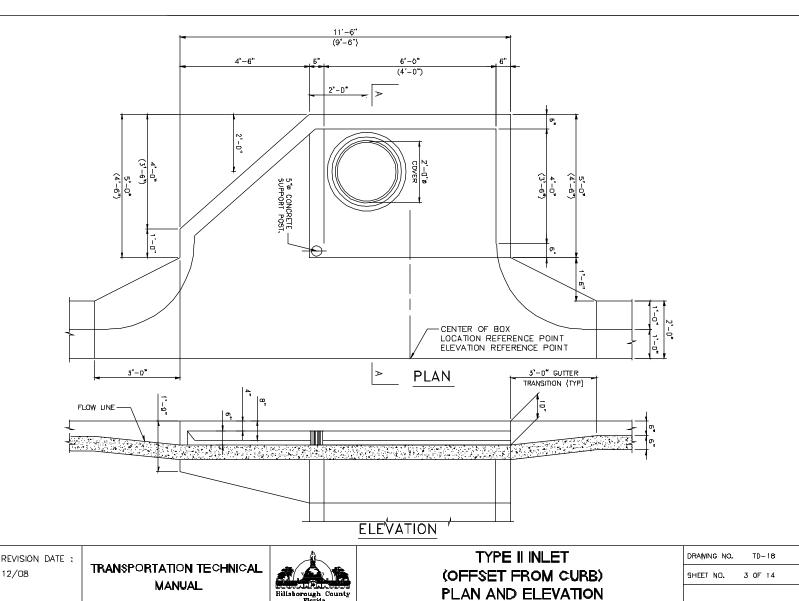


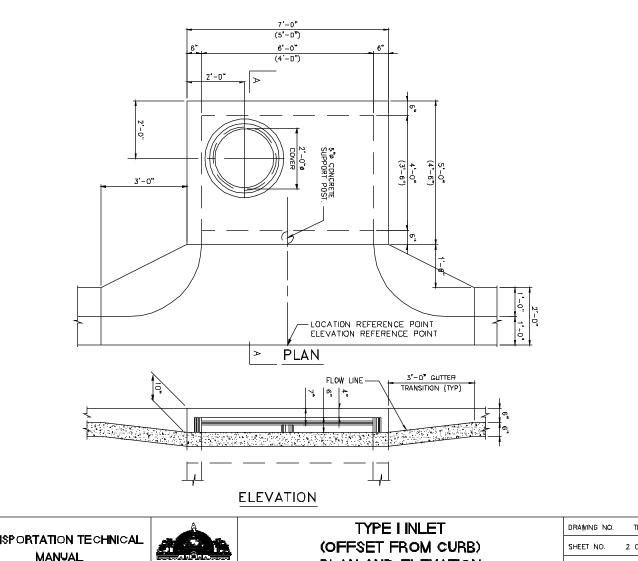




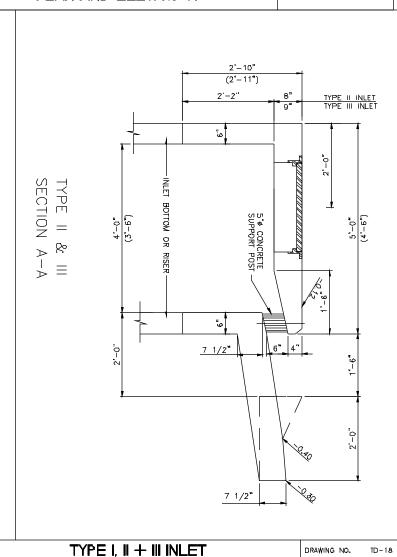


CURB TRANSITION FOR TYPE VINLET





7 1/2" 7 1/2"



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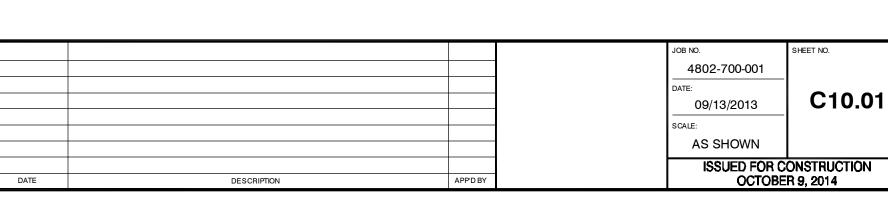
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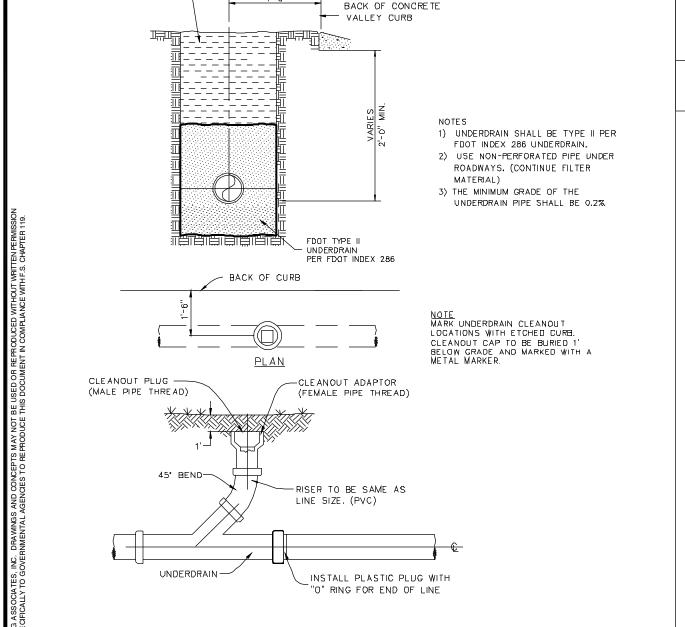
TYPE I, II + III INLETS

GENERAL NOTES

LENNAR HOMES, LLC 4600 WEST CYPRESS ST., SUITE 200 **TAMPA, FL 33607**

STORM SEWER DETAILS





UNDERDRAIN AND CLEANOUT

DETAIL FOR UNPAVED AREAS

GENERAL NOTES

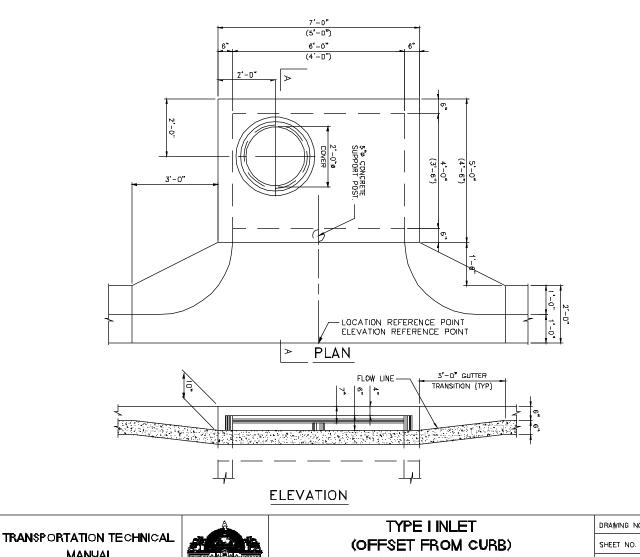
NOTES:

- 1. INLETS MAY BE PLACED ADJACENT TO OR SET BACK FROM MIAMI CURB WITH THE PROPER TRANSITIONS
- 2. 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.
- 3, WHEN THE 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.
- 4, ALL STEEL IN INLET TOP SHALL HAVE 1 1/2" MINIMUM COVER UNLESS OTHERWISE SHOWN, INLET TOPS SHALL BE EITHER CAST-IN-PLACE OR PRECAST CONCRETE,
- 5. FOR STRUCTURE BOTTOMS AND SUPPLEMENTAL DETAILS SEE FDOT STANDARD INDEX NO'S. 200 AND 201.
- 6, ONLY ROUND CONCRETE SUPPORT POSTS WILL BE ACCEPTABLE,

TRANSPORTATION TECHNICAL

MANUAL

- 7, INLETS ADJACENT TO MIAMI CURB ARE DESIGNED FOR USE WITH STANDARD CURB AND GUTTER TYPES E AND F, PER FDOT STANDARD INDEX 300. LOCATE INLET OUTSIDE OF PEDESTRIAN CROSSWALKS.
- 8. CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH, F'C = 4000 PSI.
- 9, REINFORCING STEEL SHALL BE GRADE 60 DEFORMED BARS, PER ASTM A615.
- 10. WHEN USING INLETS SET BACK FROM THE MIAMI CURB, THE SIDEWALK SHALL BE LOCATED BEHIND THE BACK OF BOX,



PLAN AND ELEVATION

DRAWING NO. TD-18 SHEET NO. 2 OF 14

REVISION DATE TRANSPORTATION TECHNICAL

TYPE I, II + III INLET (OFFSET FROM CURB) SECTIONS AND DETAILS

SHEET NO. 5 OF 14

SPACE INDICATES THAT ALL QUIRED PERMITS HAVE BEEN OBTAINED AND THAT NSTRUCTION IS AUTHORIZE TO COMMENCE.

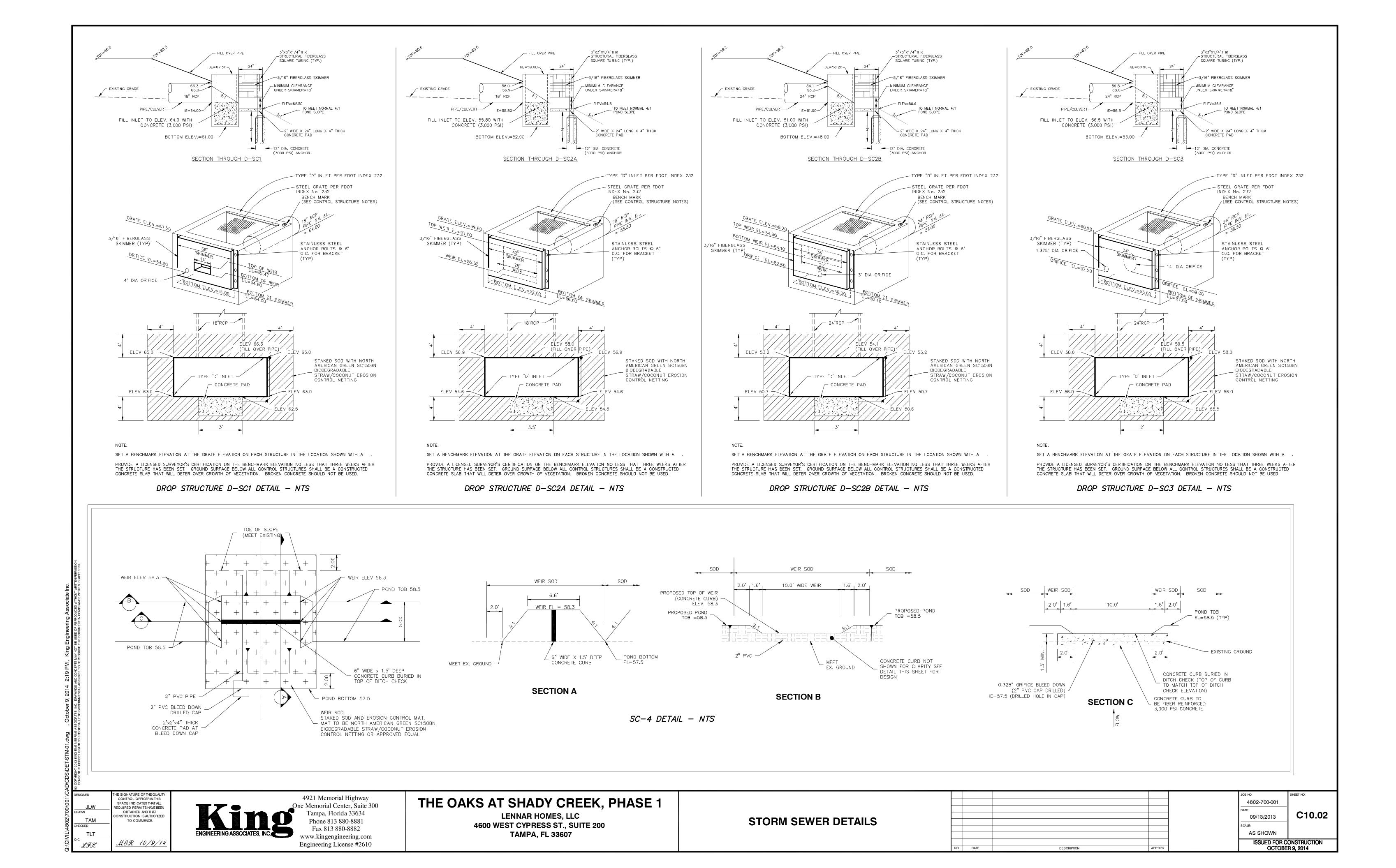
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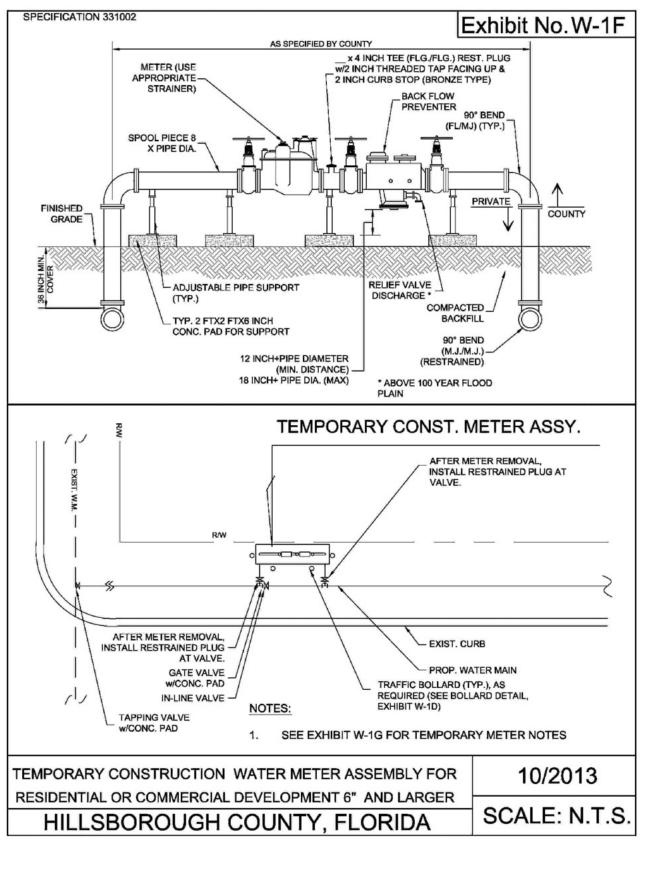
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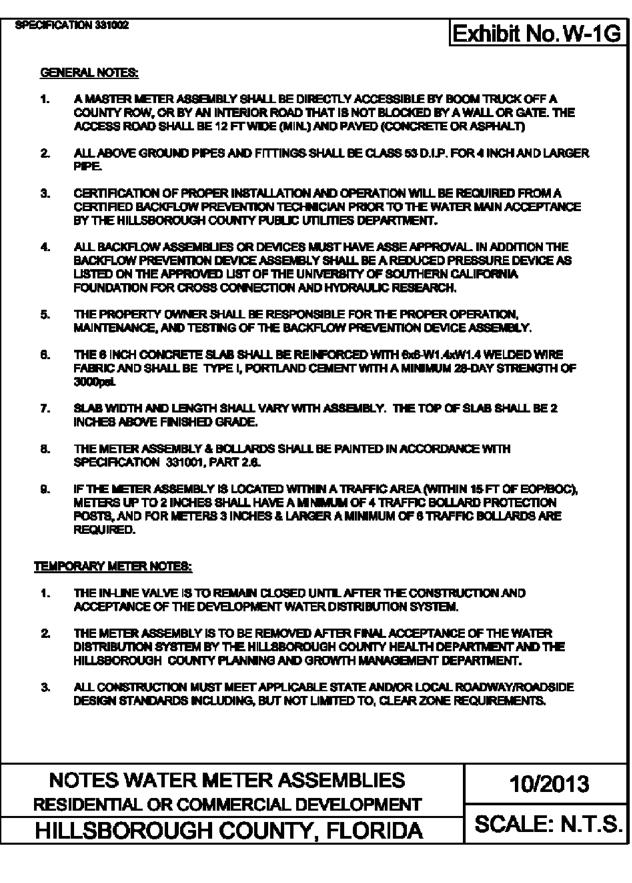
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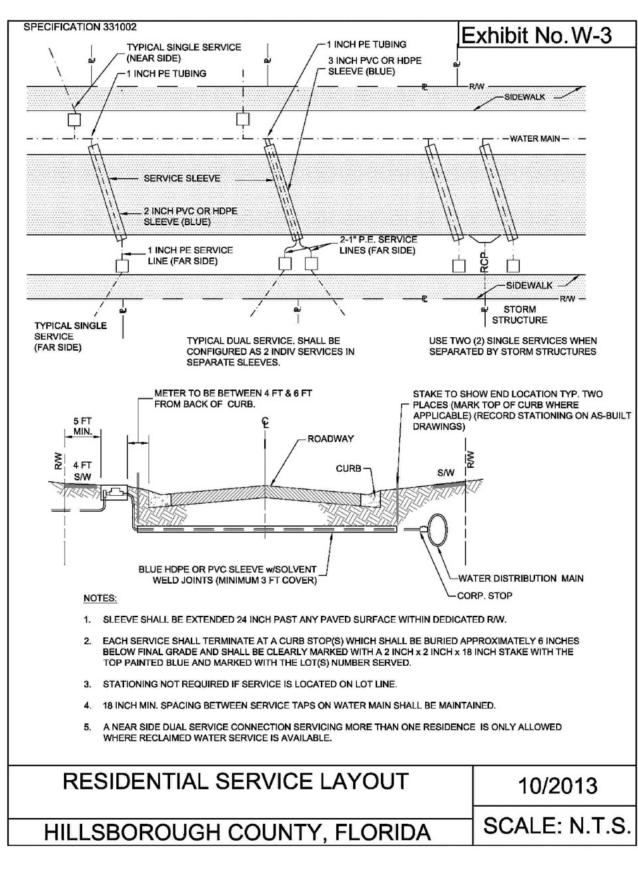
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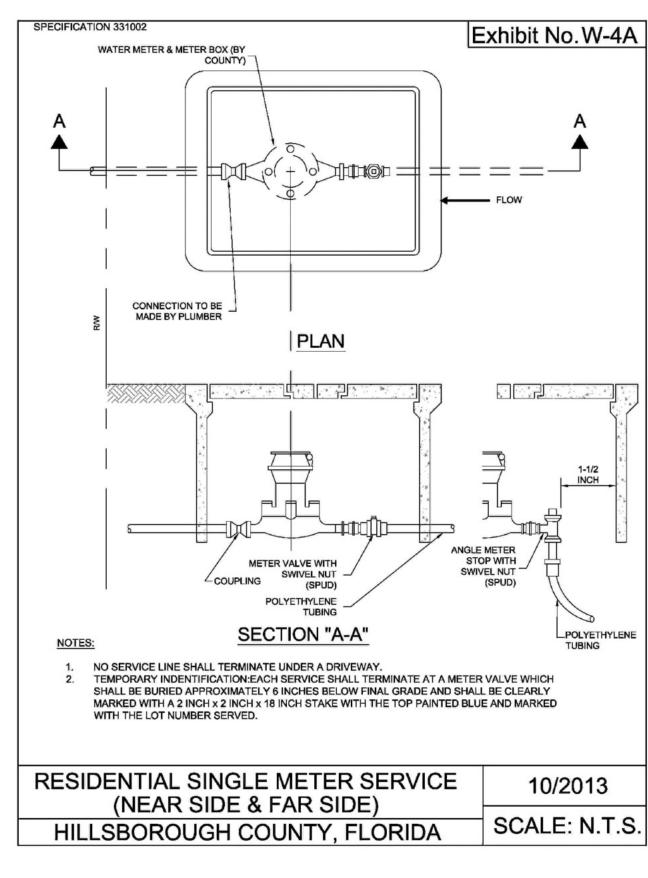
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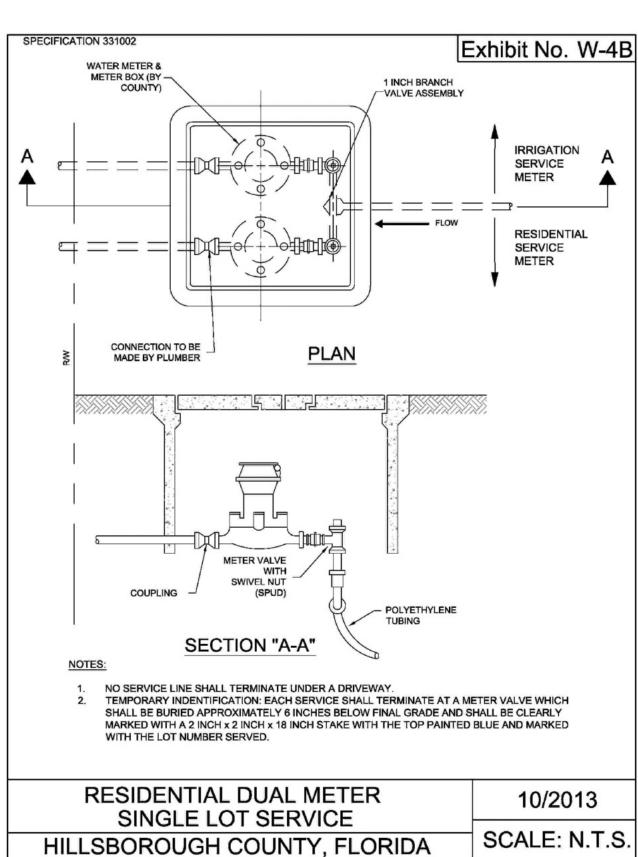


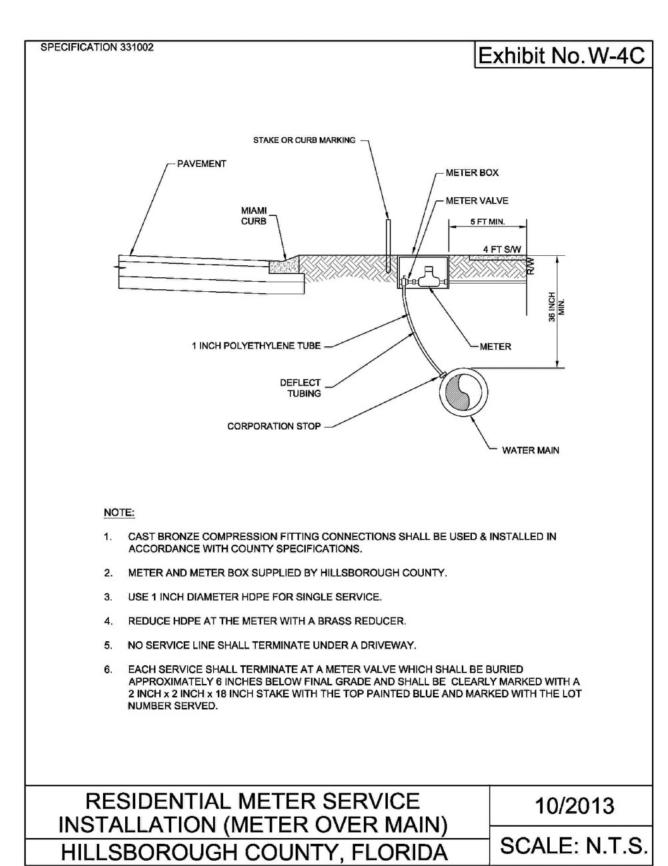


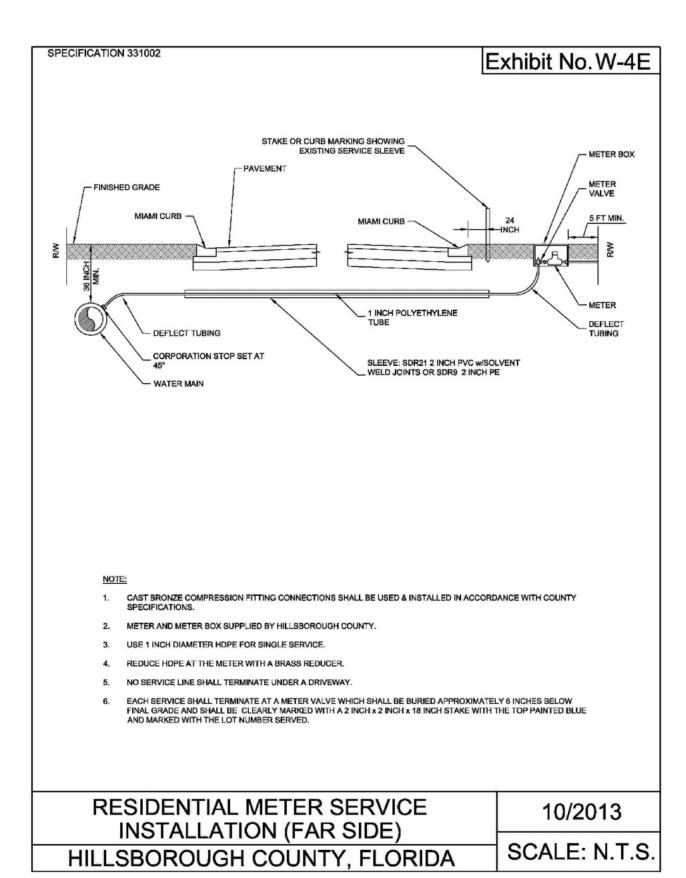


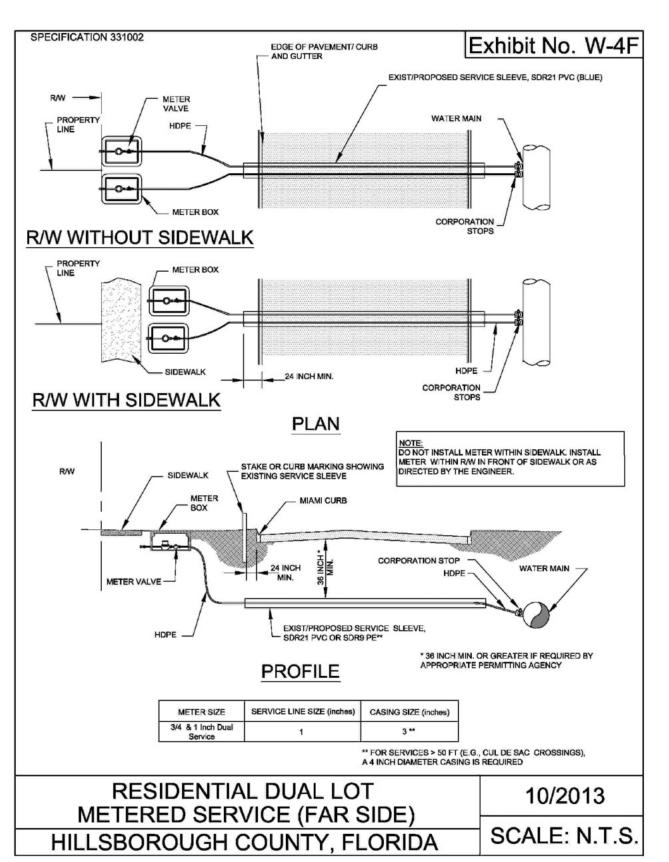


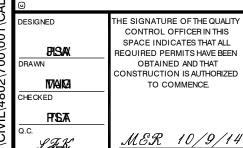










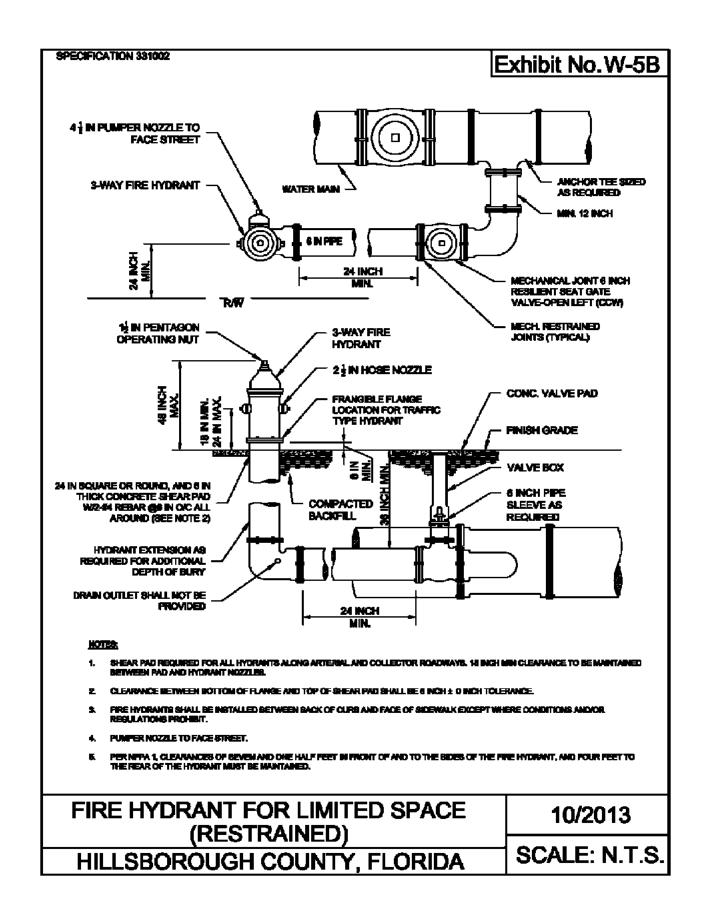


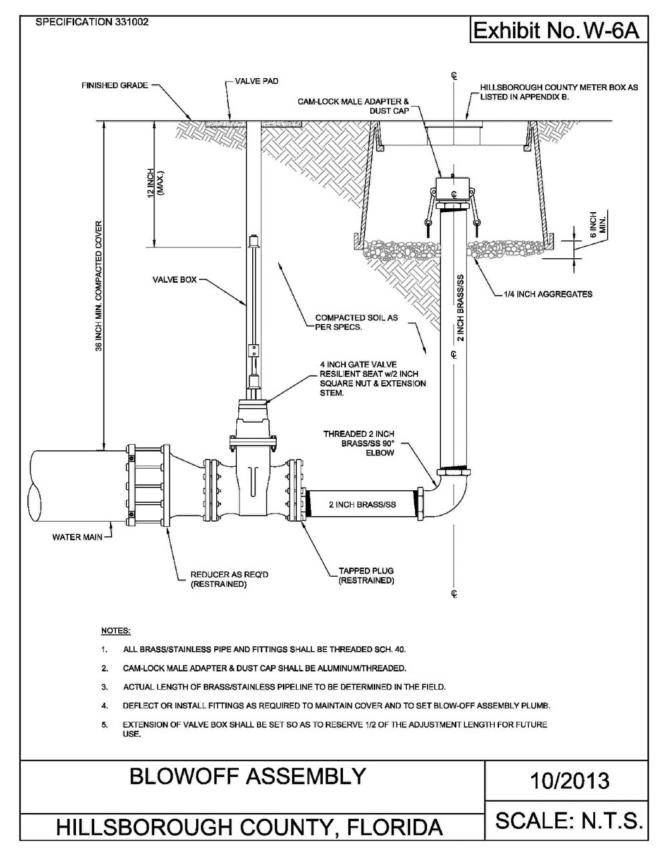


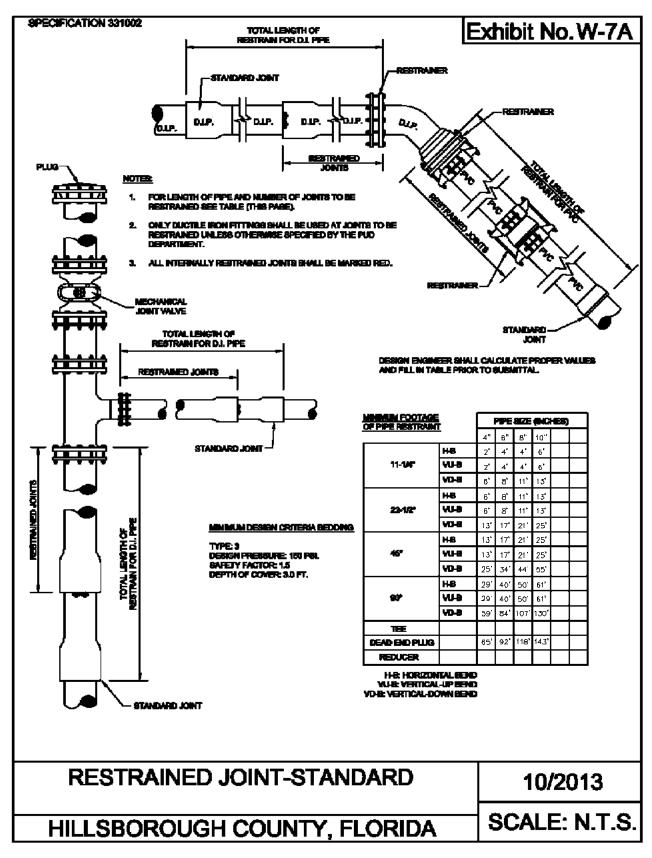
THE OAKS AT SHADY CREEK, PHASE 1

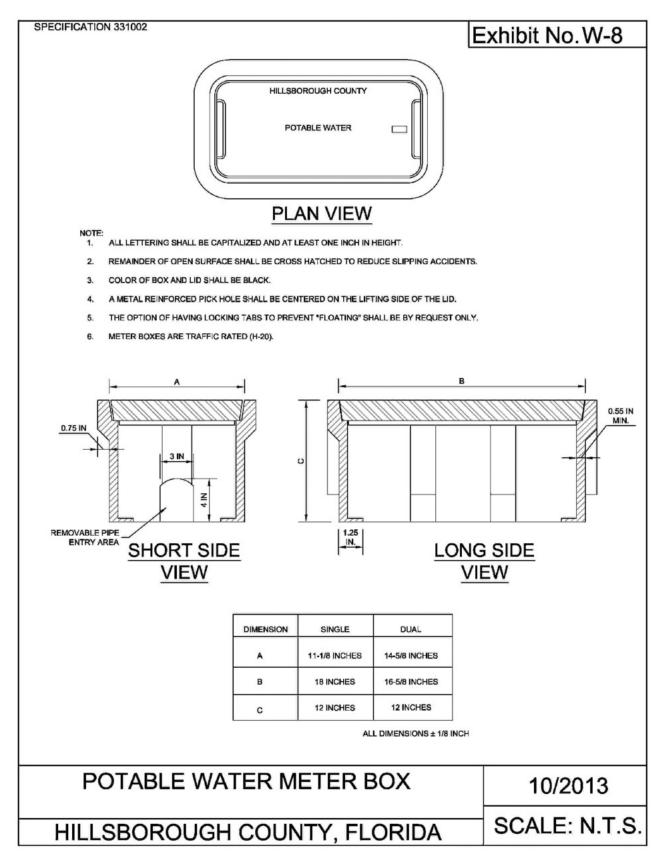
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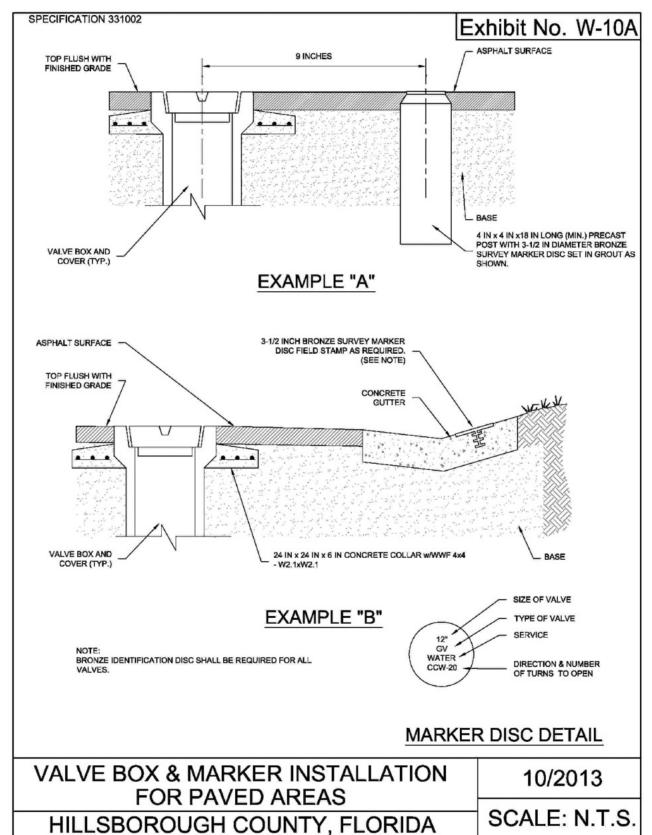
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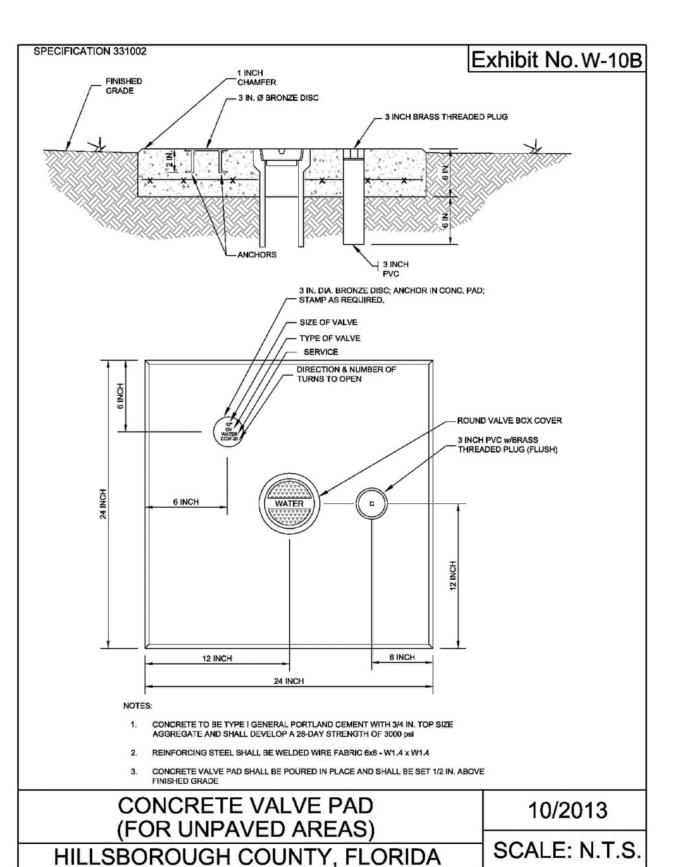


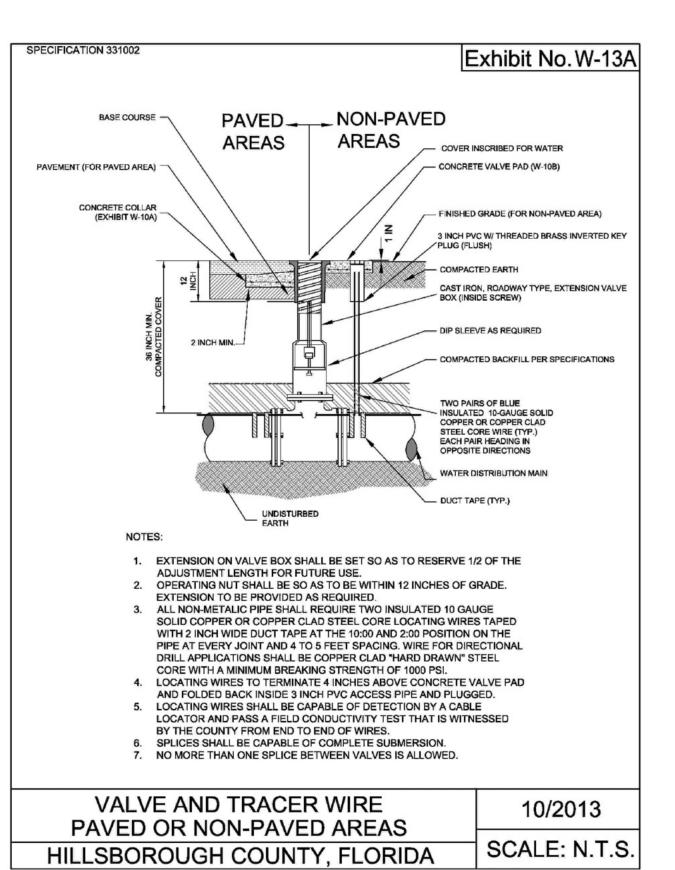


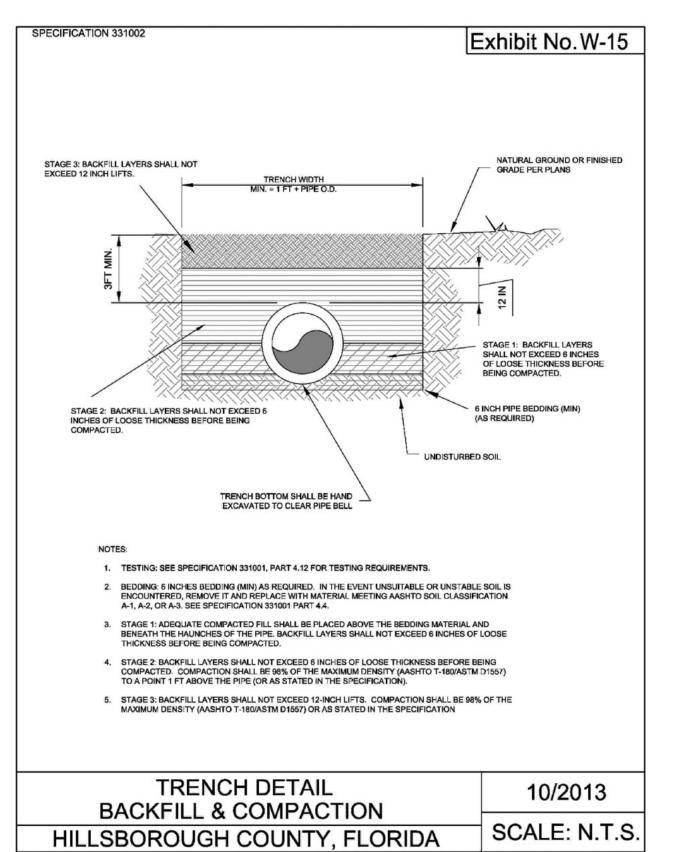


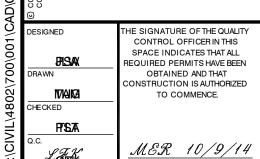










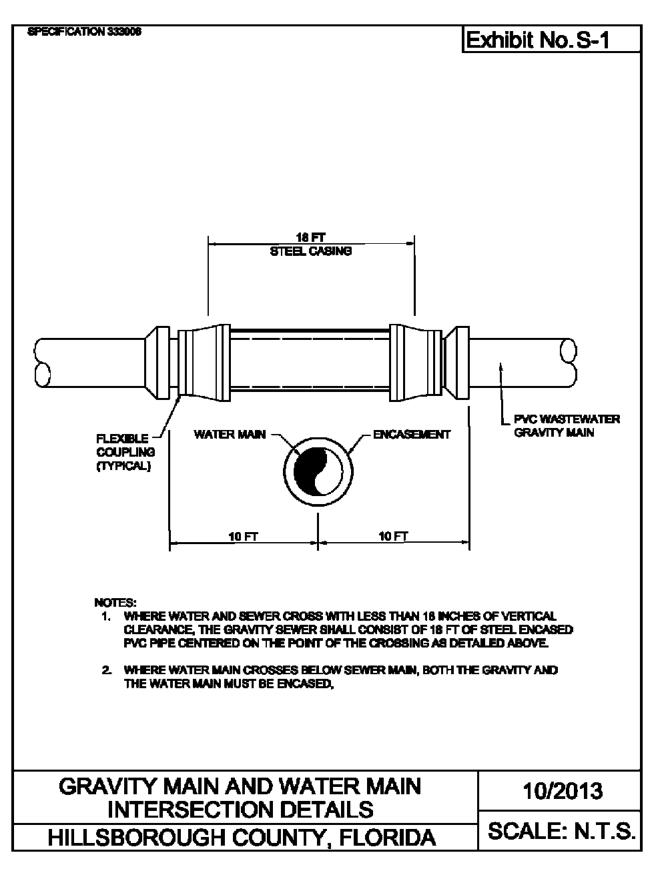


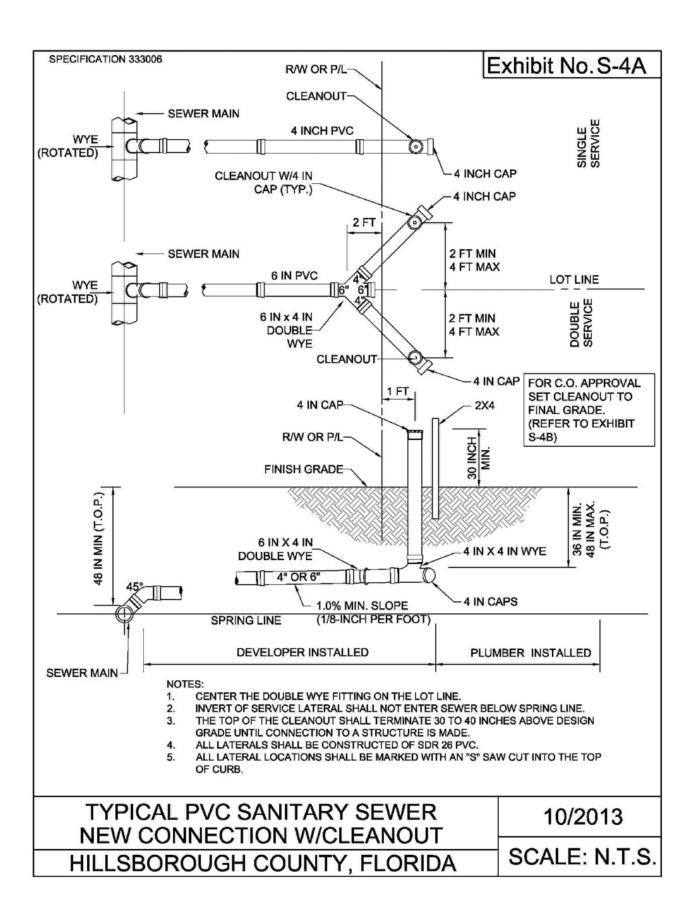


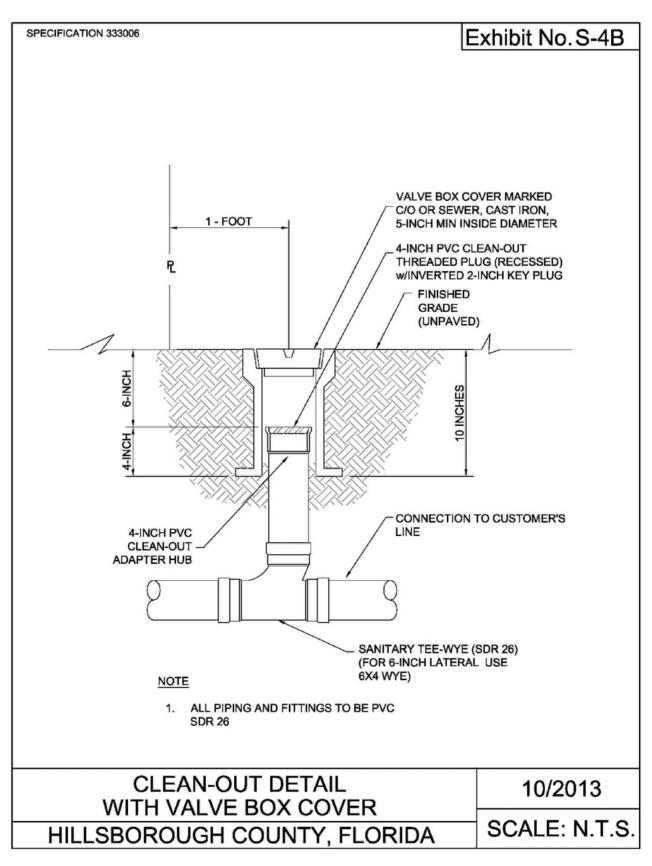
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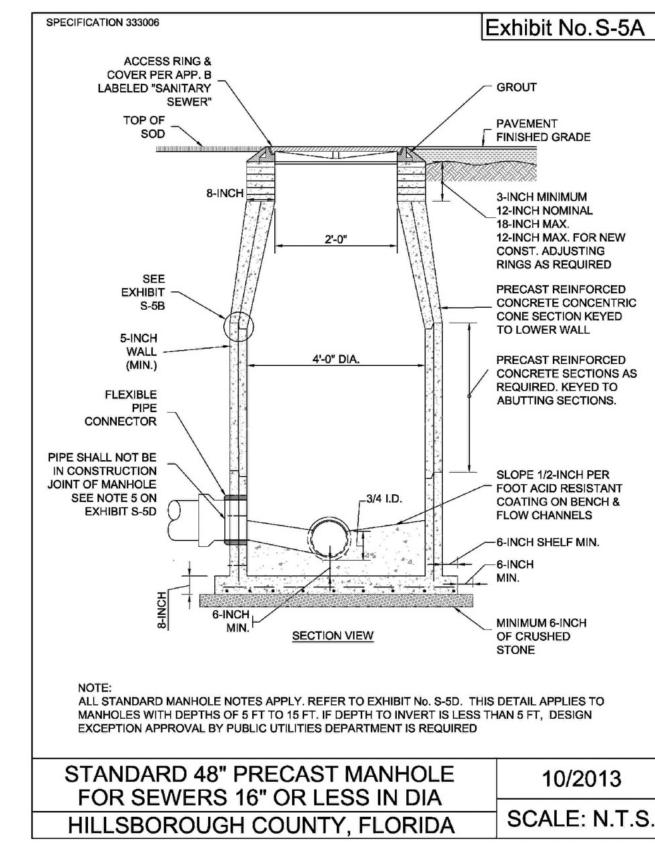
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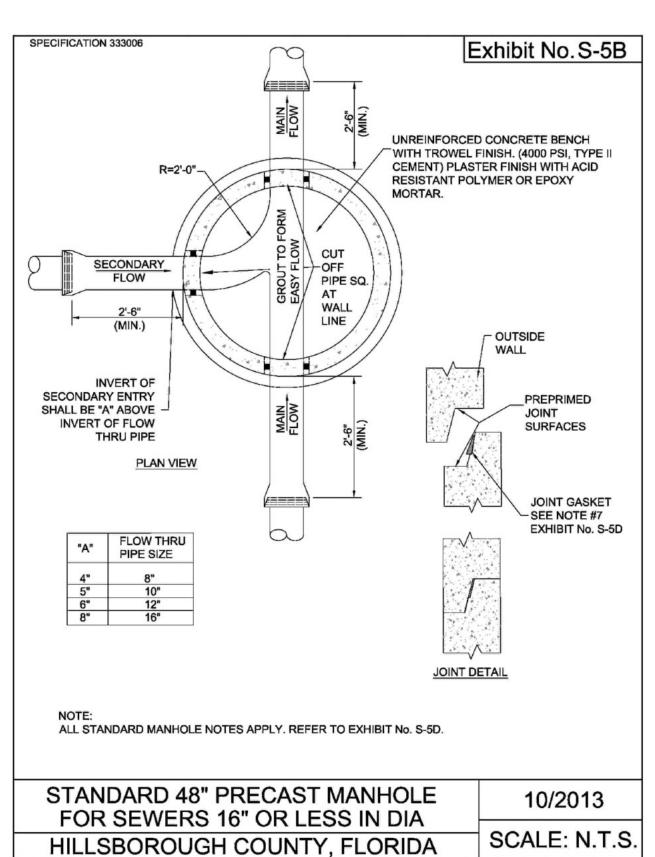
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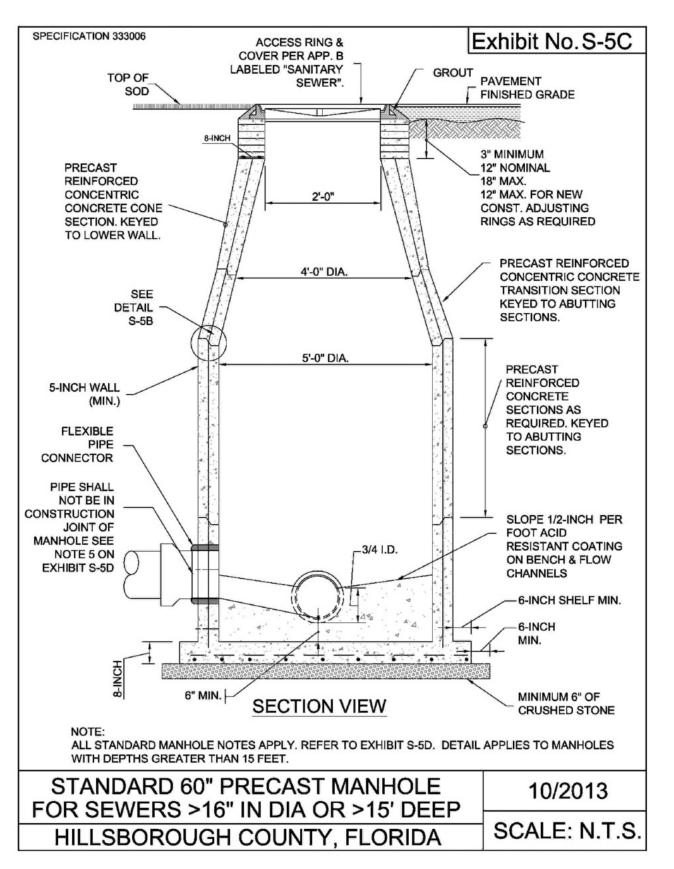


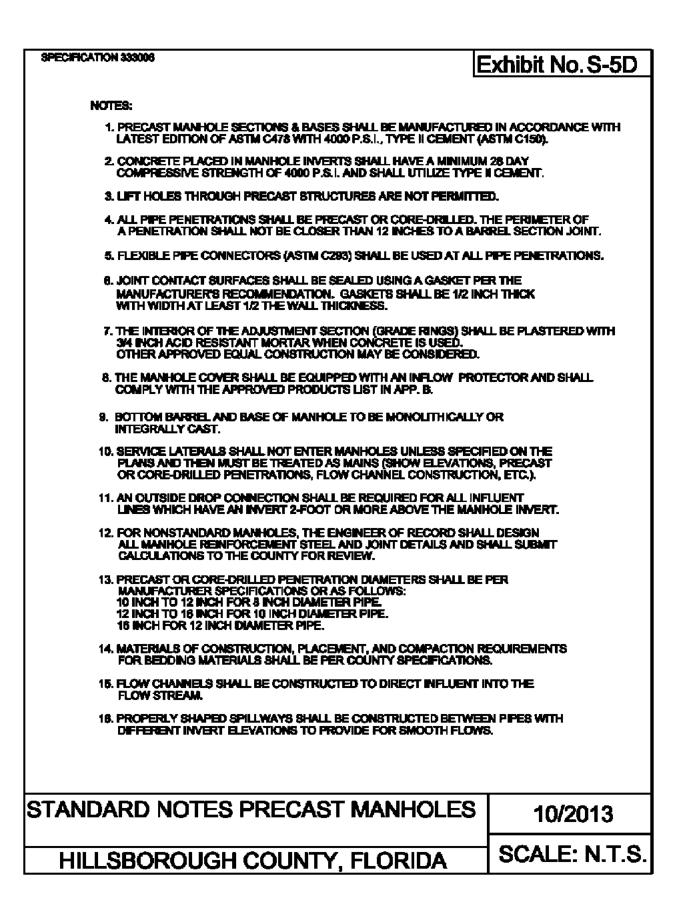


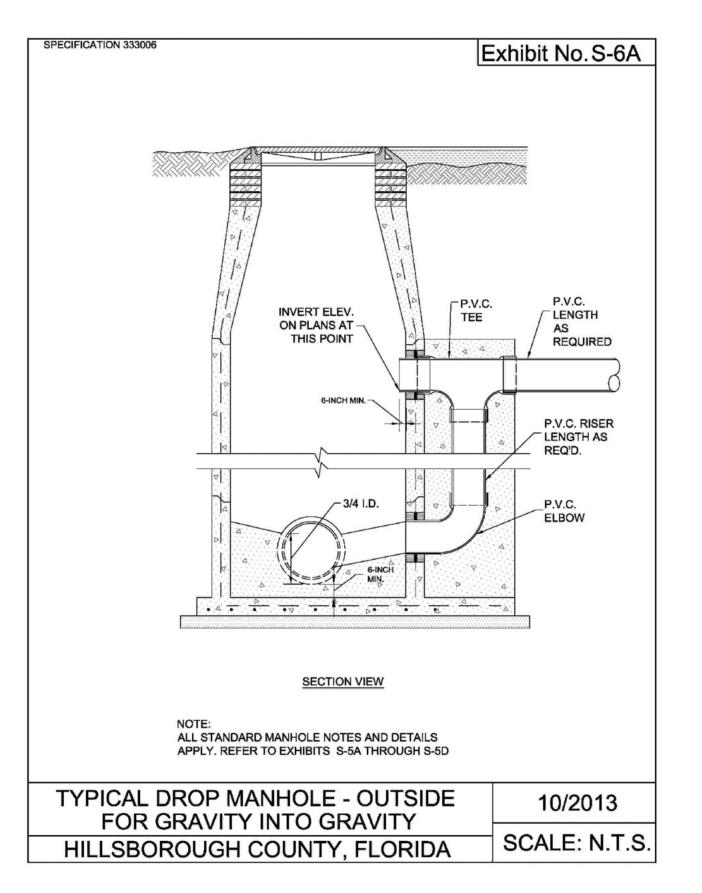


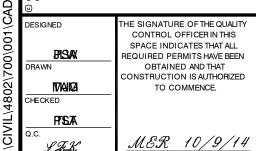












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THE OAKS AT SHADY CREEK, PHASE 1

LENNAR HOMES, LLC 4600 WEST CYPRESS ST., SUITE 200 TAMPA, FL 33607

SANITARY SEWER DETAILS

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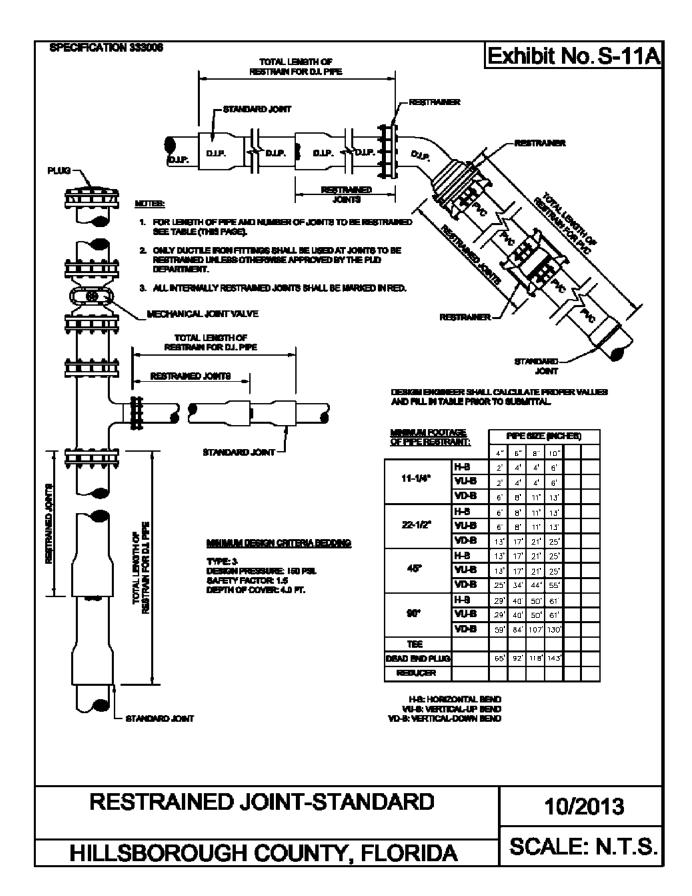
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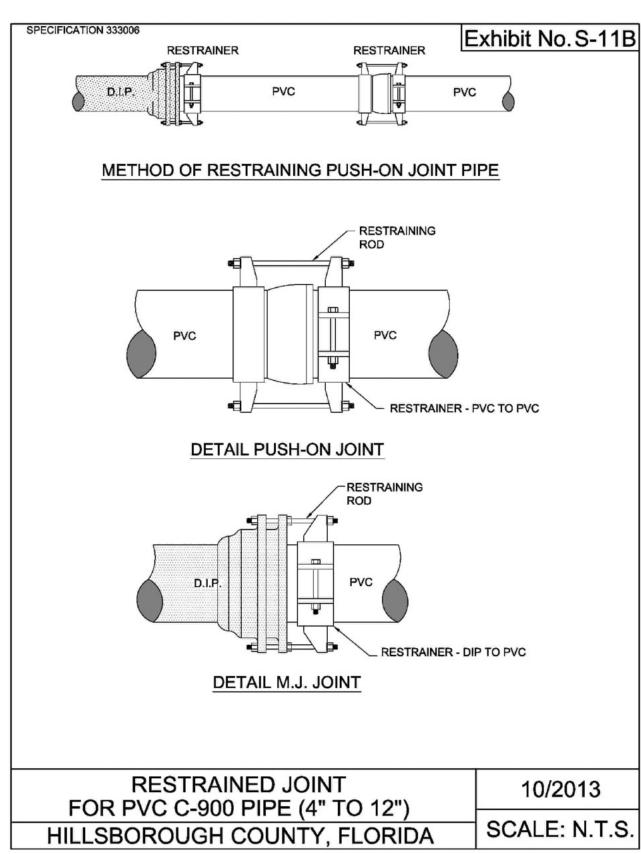
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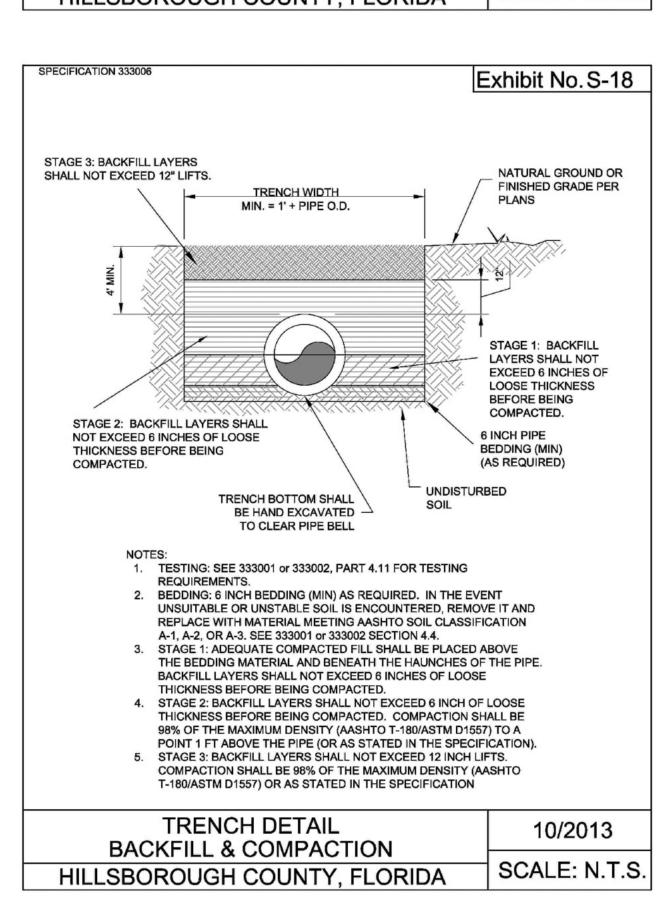
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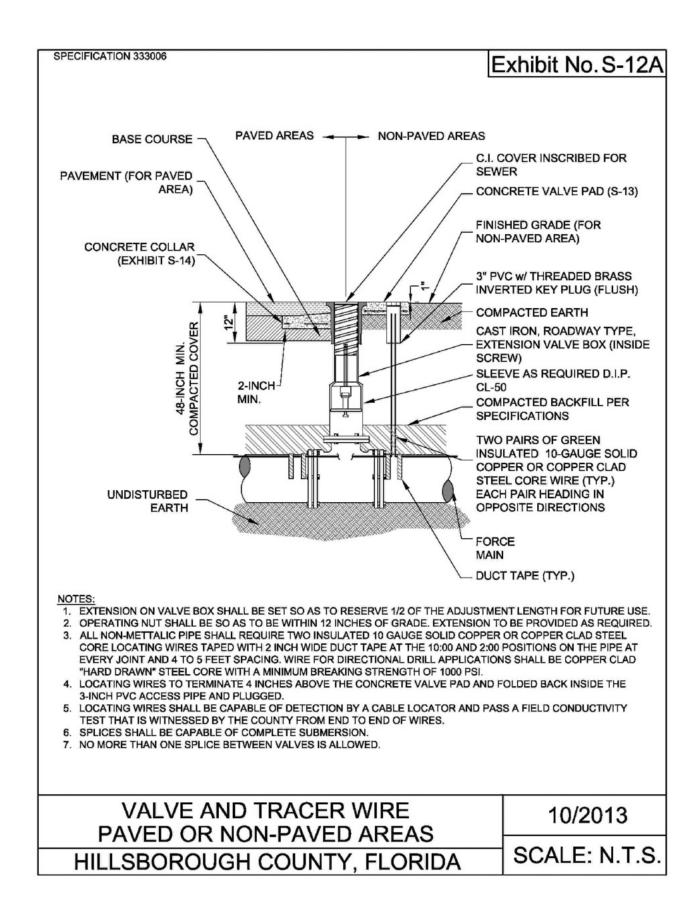
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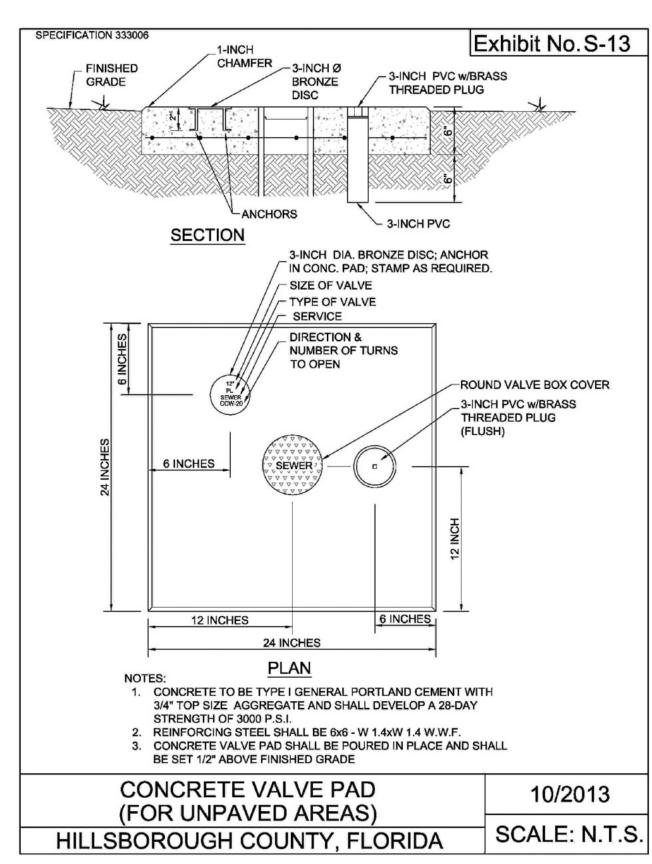
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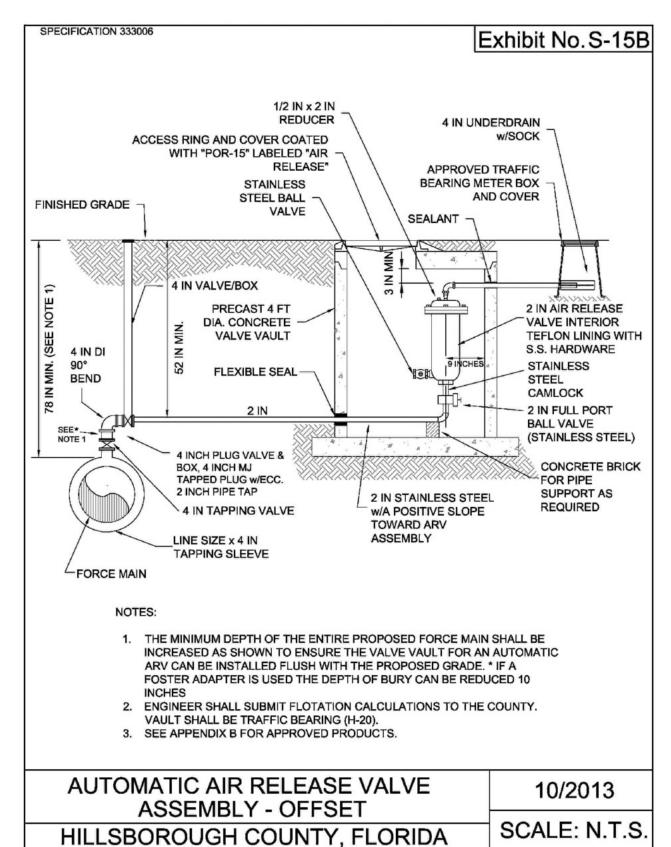












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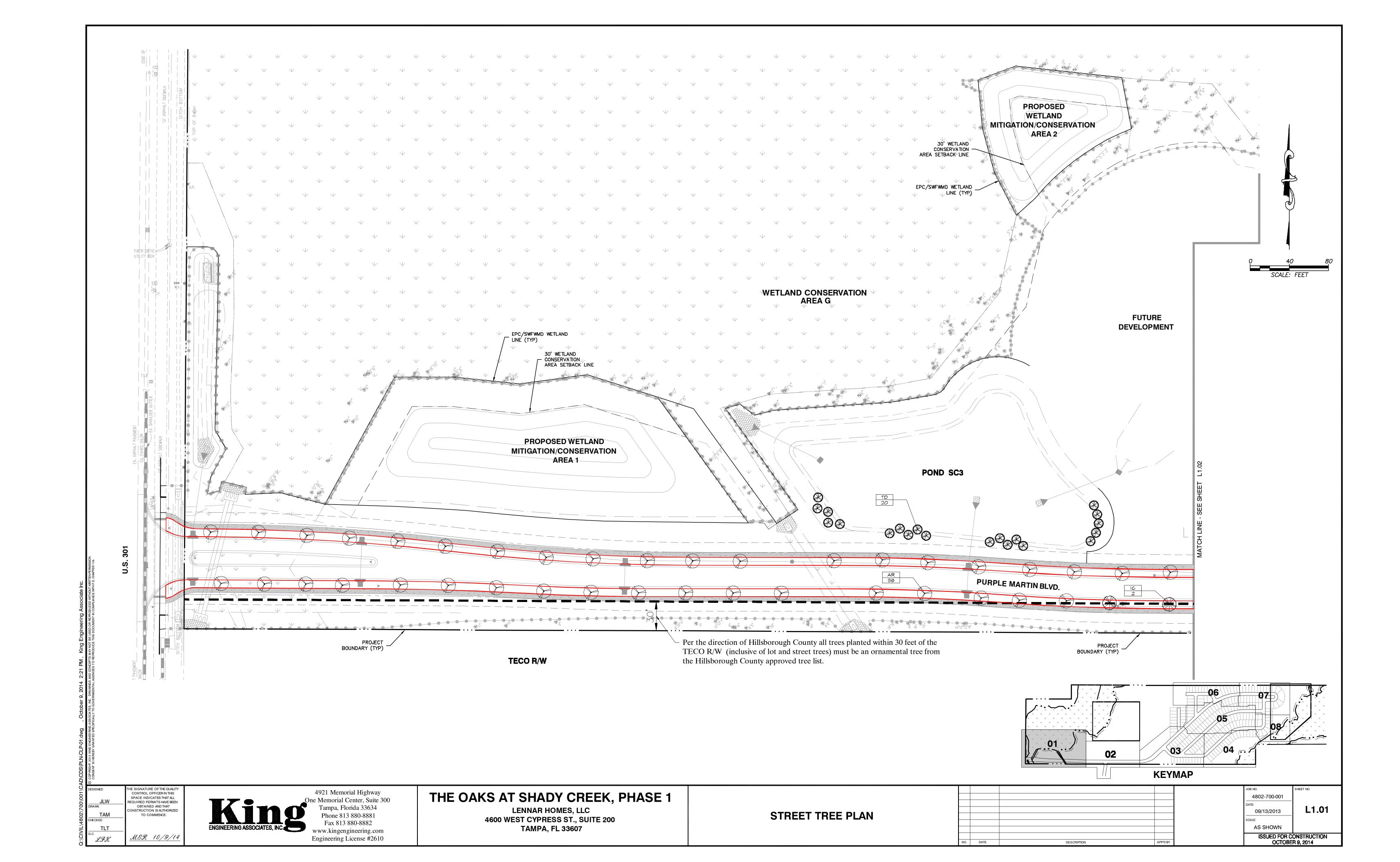
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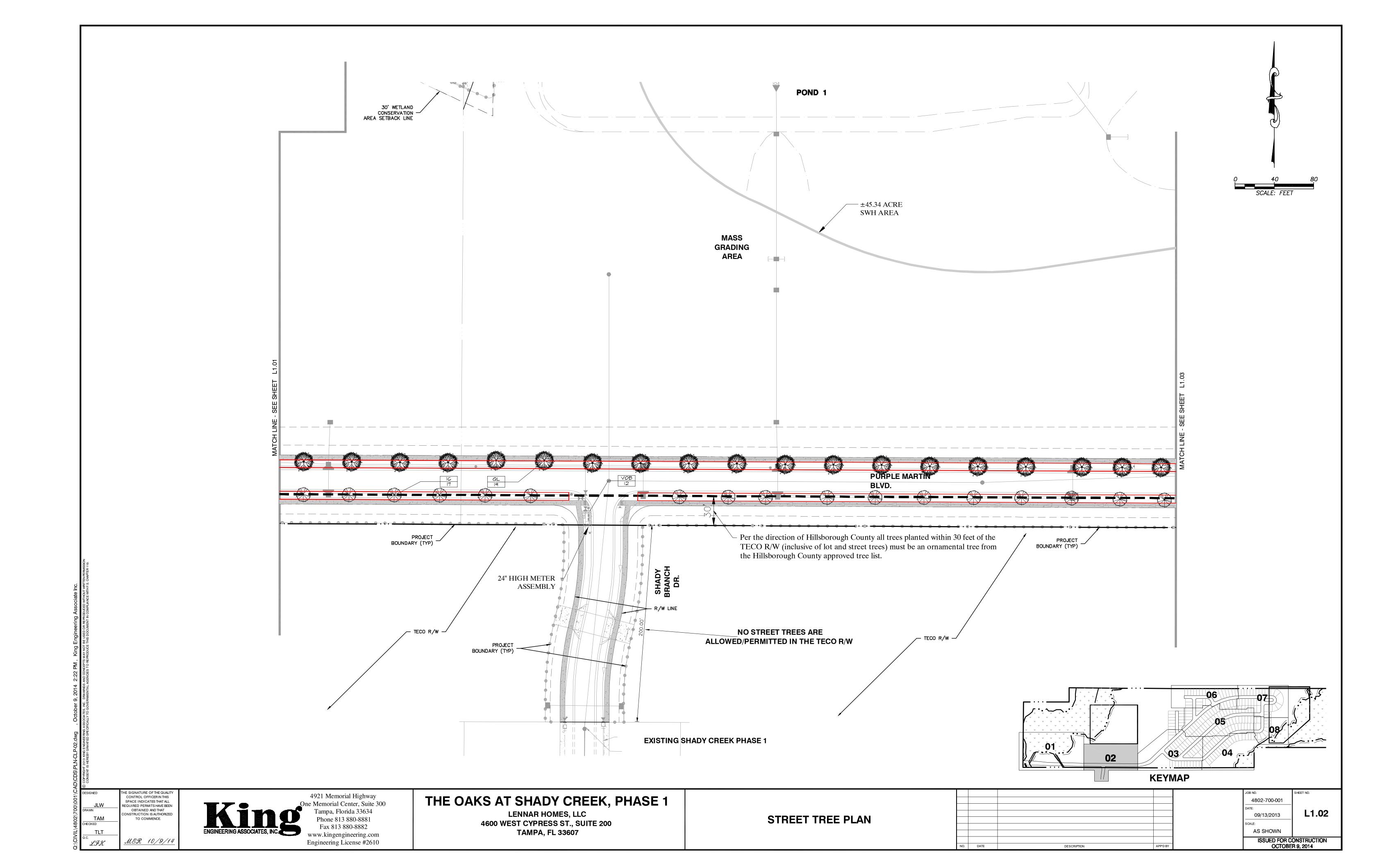
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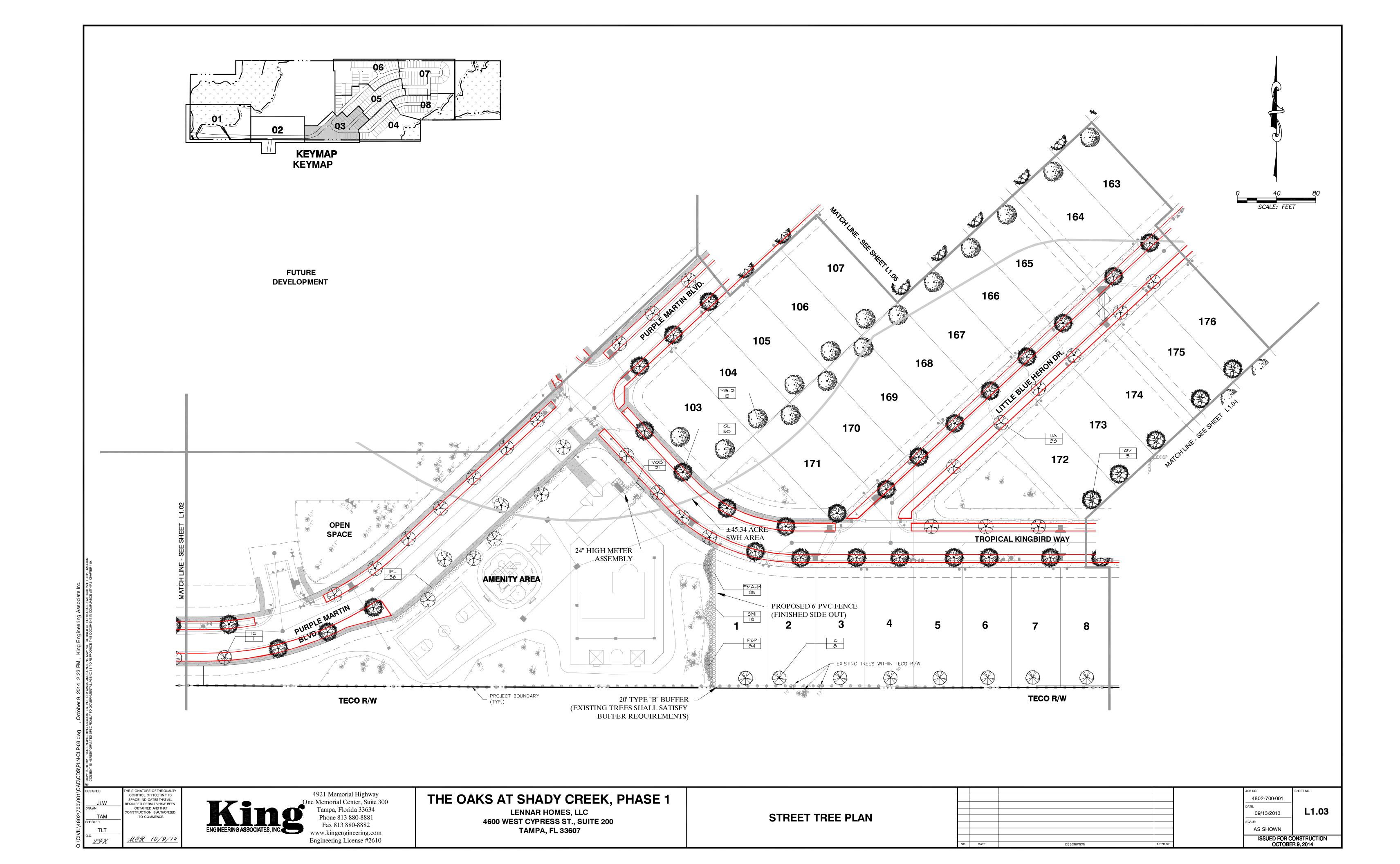
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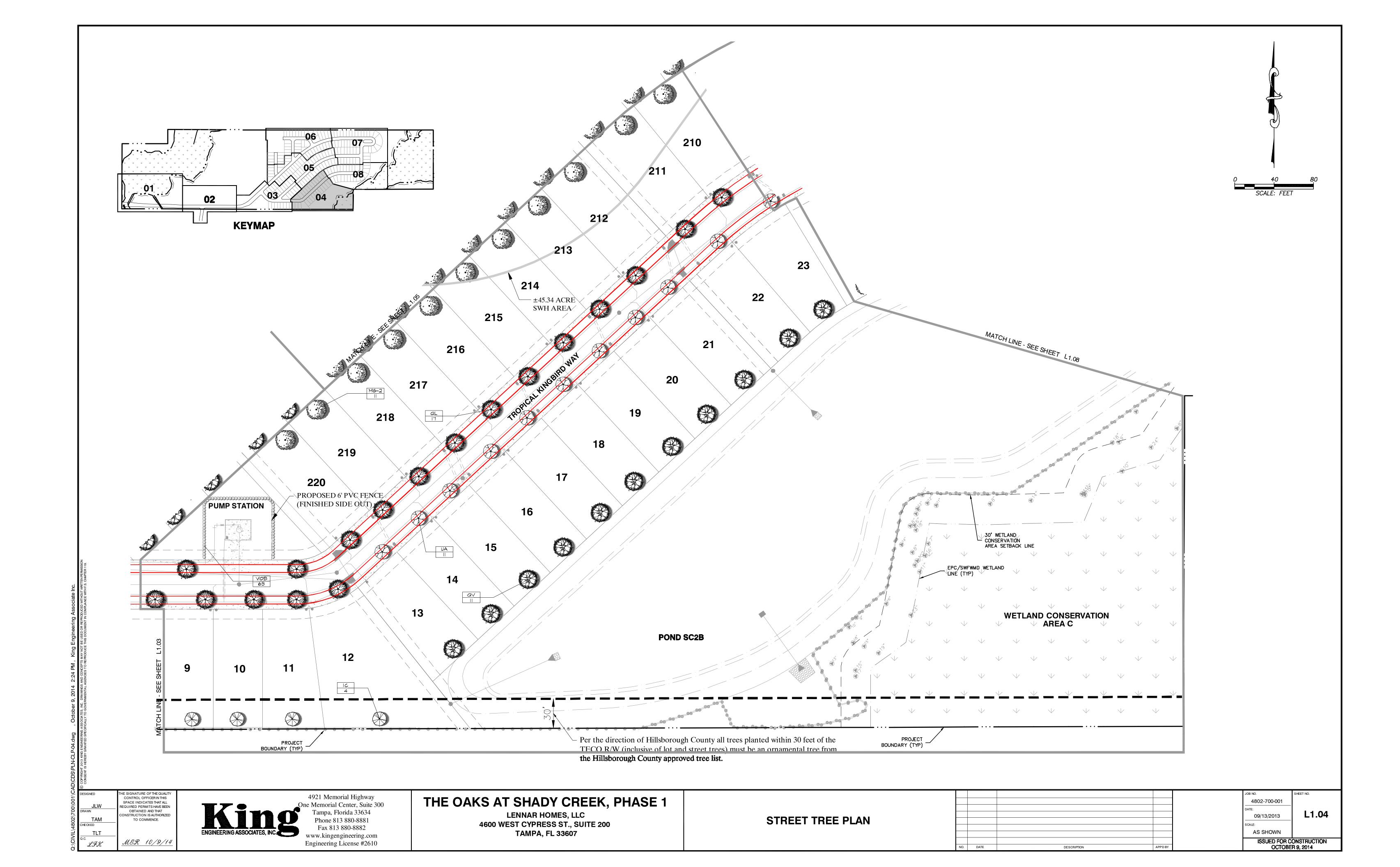
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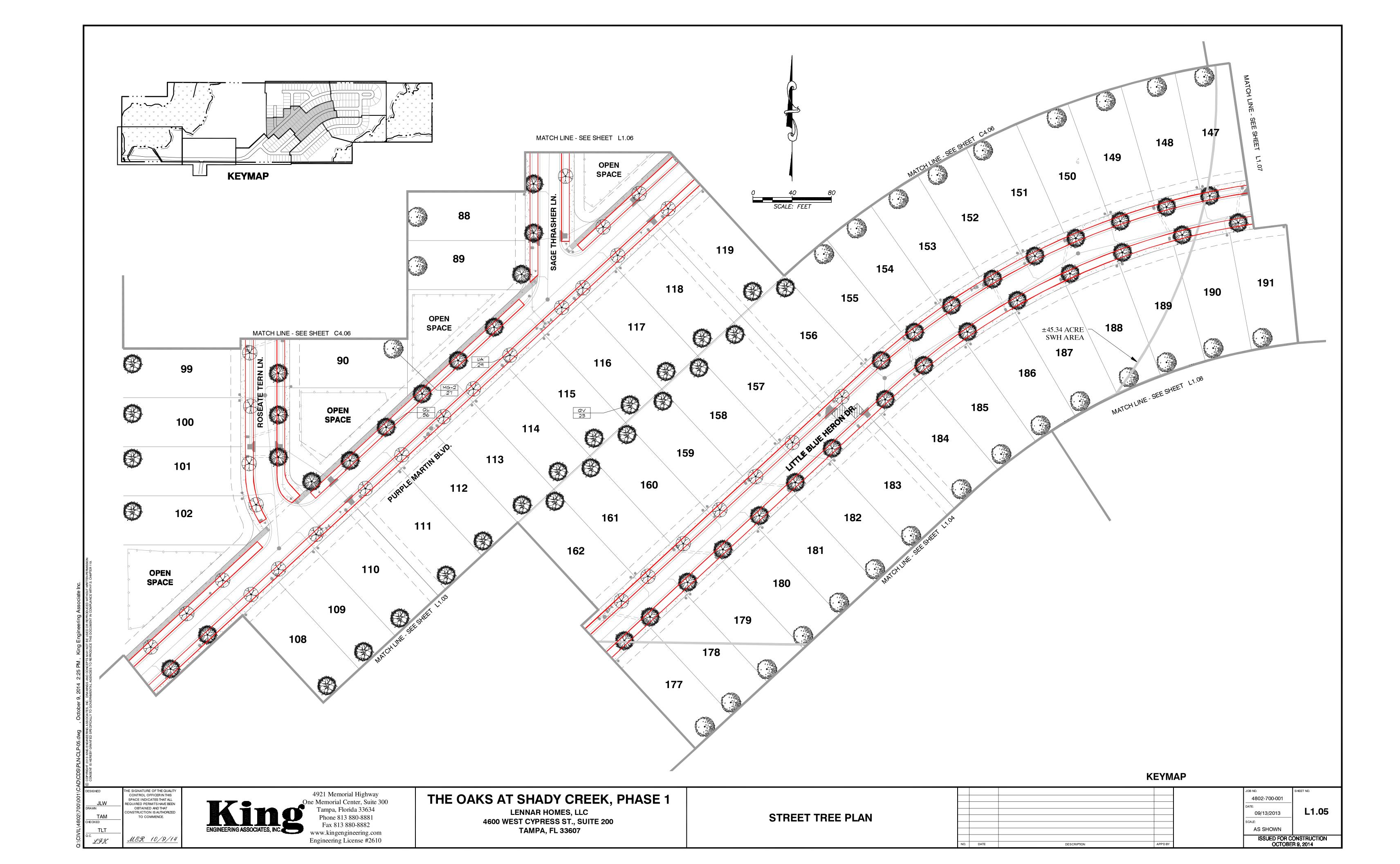
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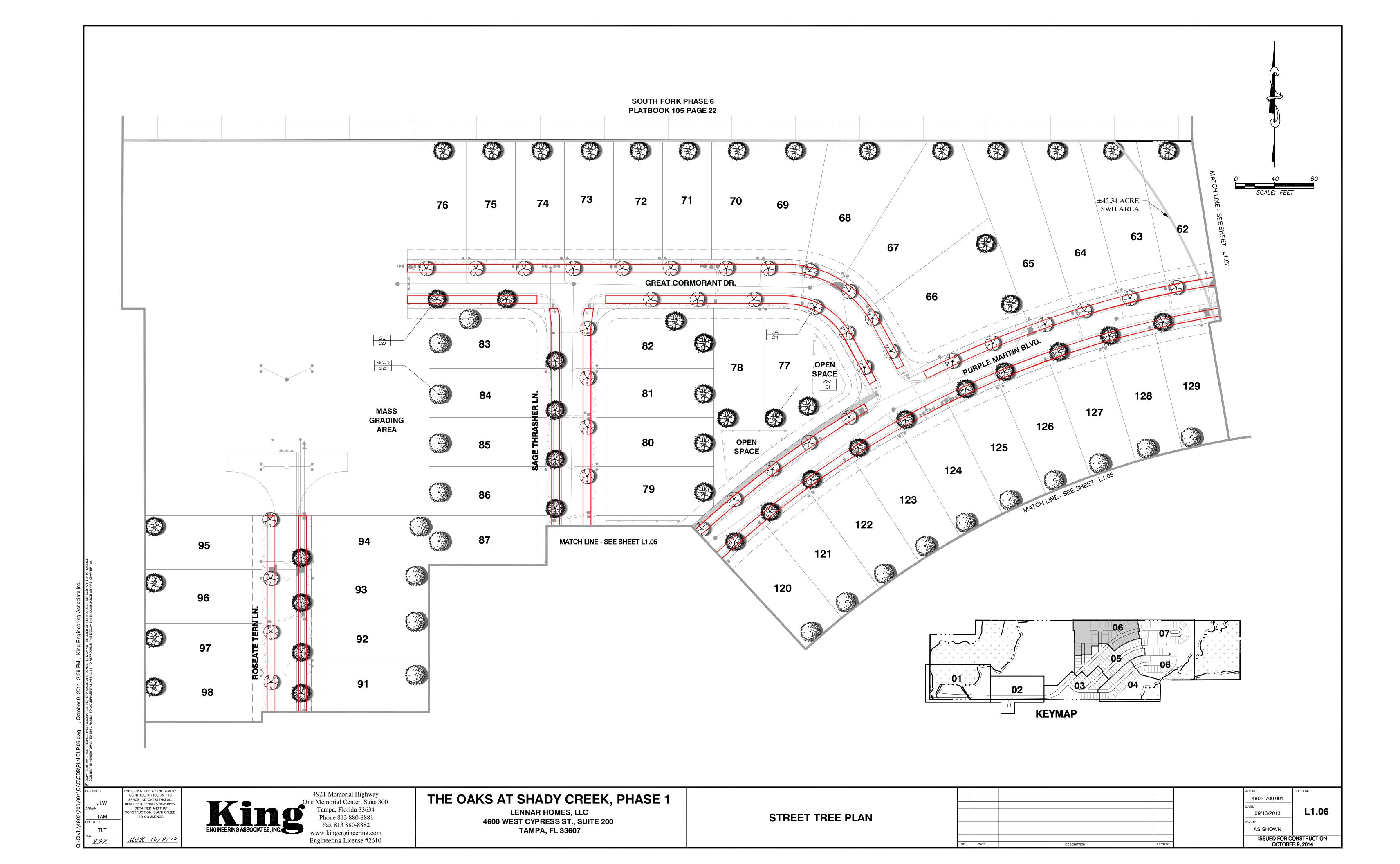


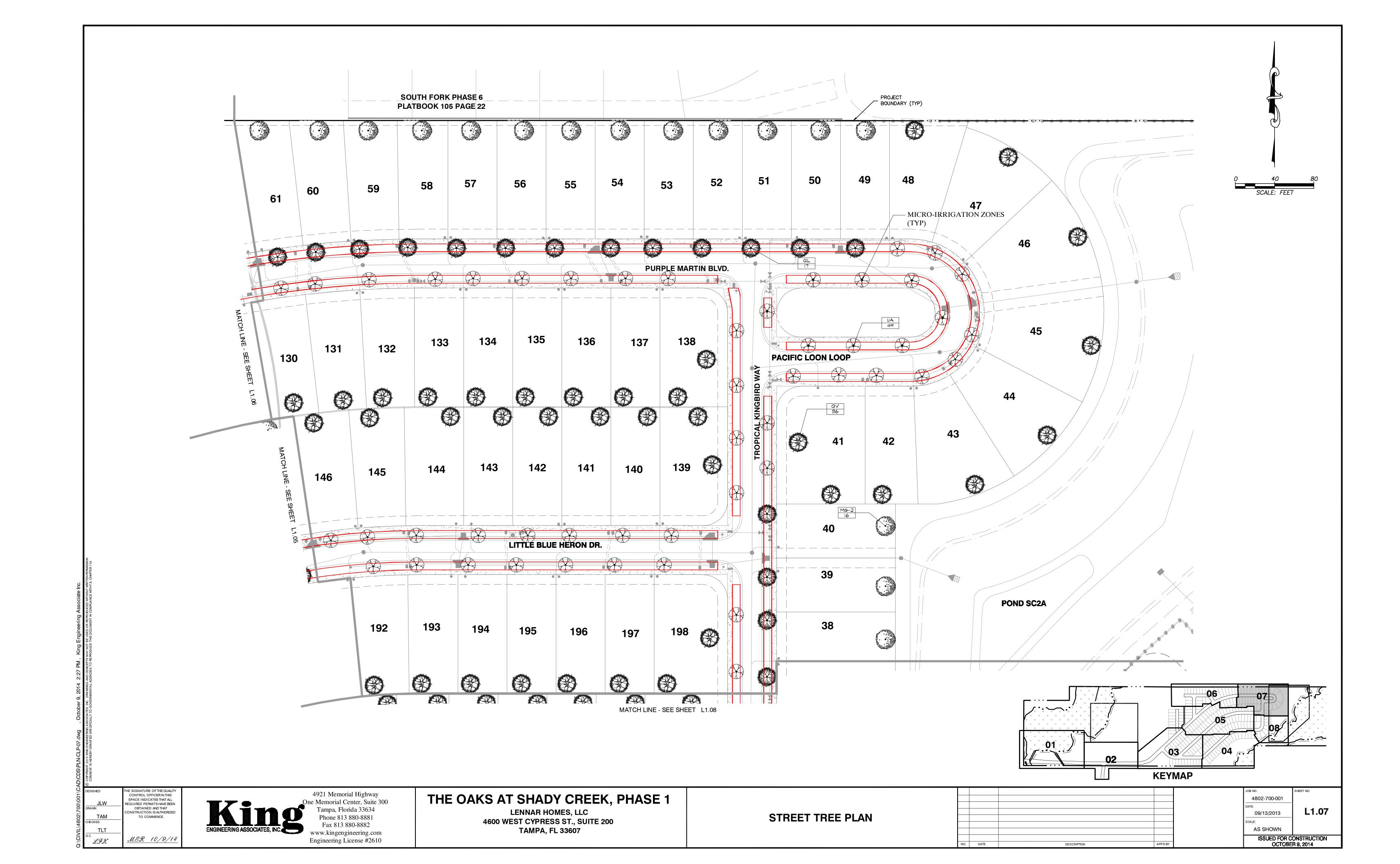


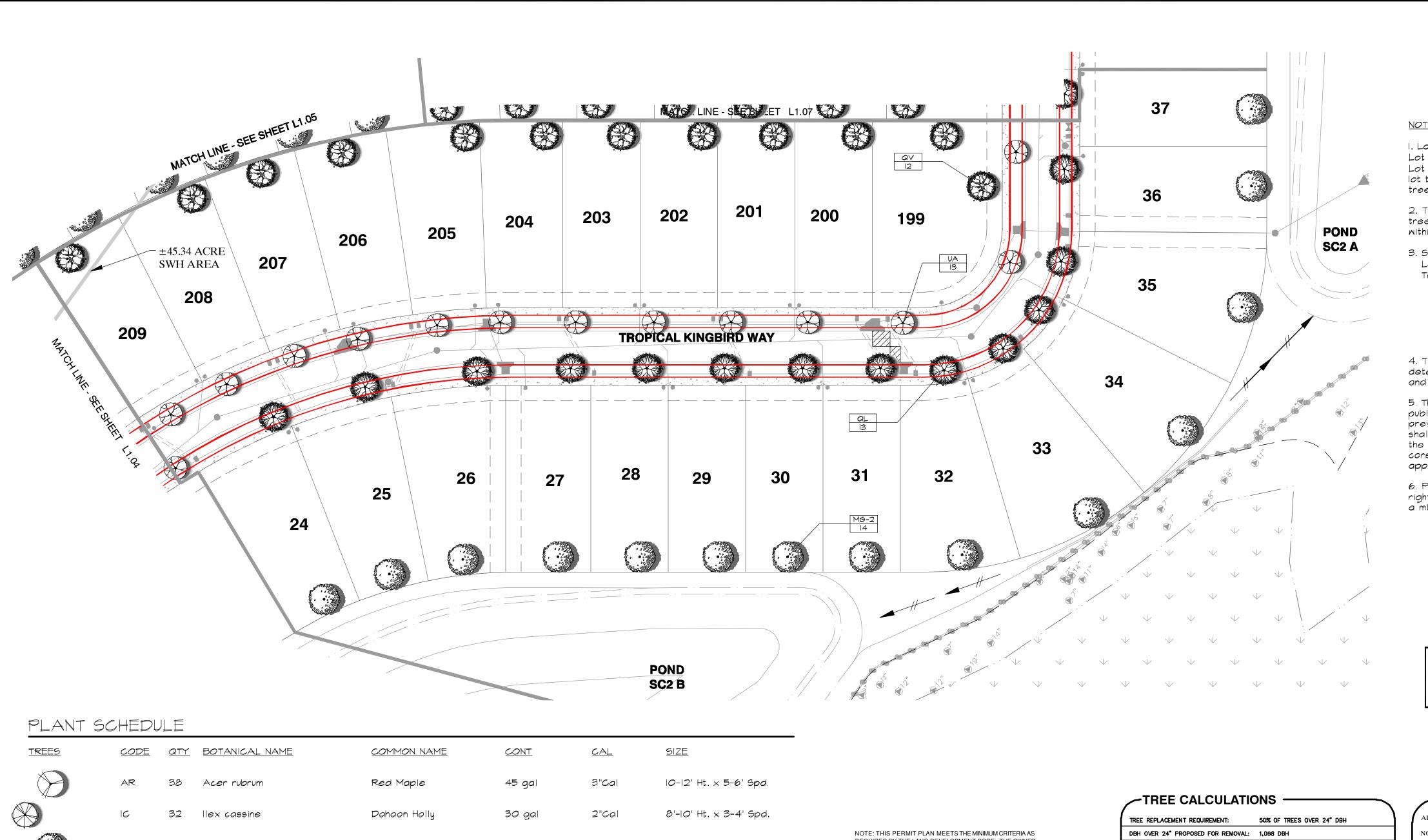












NOTES:

1. Lot 41 (10,697 s.f.); Lot 66 (12,530 s.f.); Lot 77 (7,226 s.f.); Lot 87 (7,226 s.f.); Lot 89 (9,877 s.f.); Lot 90 (8,257 s.f.); Lot 125 (8,214 s.f.); Lot 126 (8,214 s.f.); Lot 185 (8,892 s.f.); and Lot 186 (9,595 s.f.); shall require 2 lot trees. The remaining lots are less than 75' lot width and shall require 1 lot tree per Hillsborough County LDC.

2. This plan satisfies all required street trees, lot trees and replacement trees for Phase I and a portion of the Tree Replacements will be required within Phase II.

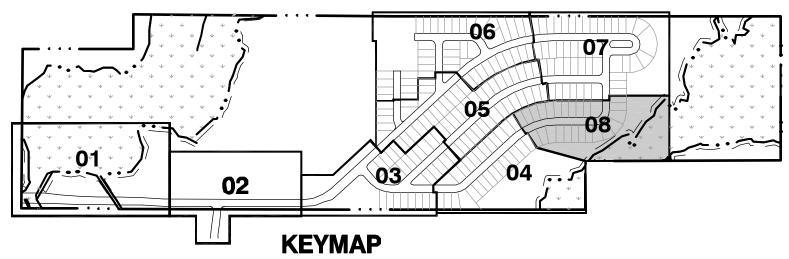
3. Street Trees required: 390 trees (390" DBH) 221 trees (221" DBH) Lot Trees required: Tree replacement required: 549 trees (549 DBH) (Tree replacement provided in phase | = 379" DBH)

> Total inches of DBH Required: 1,160" Total inches of DBH Provided: 990" In Phase I (Phase 2 shall require 170" DBH to satisfy the remaining tree replacement required for the overall project of 549" DBH)

4. Tree locations are as graphically depicted, final locations shall be determined by the Owner/Developer and subject to change due to utilities and easement locations.

5. The construction of all above ground utility appurtenances visible from the public right-of-way such as pedestals, utility meters, transformers, back-flow prevention devices, etc. for new development or redevelopment activities shall conform to screening requirements as outlined in Section 6.06.06.C.10 of the Hillsborough County Land Development Code. Plant location must be considerate of required spatial separations from a fire flow protection appliance in accordance to the Uniform Fire Code.

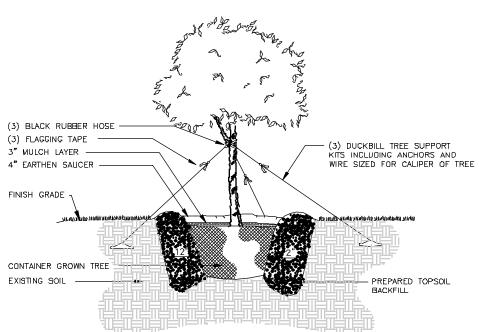
6. Proposed above ground utilities appurtenances visible from the public right-of-way are typically 3' tall and shall be completely screened by plantings a minimum of 3' high at the time of planting.



IRLL9	CODL	α 11	BOTANICAL NAME	COMINON NAME	CONT	CAL	<u>512L</u>
	AR	38	Acer rubrum	Red Maple	45 gal	3"Cal	10-12' Ht. × 5-6' Spd.
	IC	32	llex cassine	Dahoon Holly	30 gal	2"Cal	8'-10' Ht. × 3-4' Spd.
	MG-2	103	Magnolia grandiflora	Southern Magnolia	30 gal	2"Cal	8=10' Ht. x 4-5' Spd.
	QL	152	Quercus laurifolia	Laurel Oak	45 gal	3"Cal	10-12' Ht. × 5-6' Spd.
	QV	118	Quercus virginiana	Southern Live Oak	30 gal	2"Cal	8-10' Ht. x 4-5' Spd.
The state of the s	TD	20	Taxodium distichum	Bald Cypress	30 gal	2"Cal	10-12' Ht. × 5-6' Spd.
	UA	169	Ulmus alata	Winged Elm	45 gal	3"Cal	10-12' Ht. × 5-6' Spd.
SHRUBS	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT		SIZE
+	IFL	56	Illicium floridanum	Florida Anise	3 gal, 4' OC		8-24" HT × 8-24" SPD
100 Mg	PSP	84	Pennisetum setaceum	Purple Fountain Grass	3 gal, 3' OC		18-24" HT x 1824" SPD.
\$ \	PMA-M	35	Podocarpus macrophyllus 'Maki'	Shrubby Yew	7 gal, 4' OC		4-5' HT x 24-30" SPD.
E. T.	SMI	18	Sabal minor	Dwarf Palmetto	7 gal, 4' OC		4'-5 HT x 3-4' SPD
0	∨ 0B	96	Viburnum obavatum	Walter's Viburnum	3 gal, 4' 0C		36" HT x 24" SPD.

REQUIRED BY THE LAND DEVELOPMENT CODE. THE OWNER MAY INSTALL ADDITIONAL LANDSCAPING AT HIS DISCRETION.

ALL TREES SHALL BE PLANTED PER DETAIL BELOW AND IN ACCORDANCE WITH THIS PLAN. IF THESE SPACING CRITERIA CANNOT BE MET, STREET TREES WILL BE PLANTED WITHIN THE FIRST 5 FEET OF THE FRONT YARD OF THE LOT OR WITHIN 5 OF THE RIGHT-OF-WAY.



TREE PLANTING DETAIL

TREE REPLACEMENT REQUIREMENT:	50% OF TREES OVER 24" DBH
DBH OVER 24" PROPOSED FOR REMOVAL:	1,098 DBH
50% REPLACEMENT REQUIRED:	549 DBH
GRAND OAK REPLACEMENT REQUIREMENT:	1:1 FOR 34-48", 1.5:1 FOR 48-60", 2:1 FOR 60"+
34-48" GRAND OAK REMOVAL:	N/A DBH
48-60" GRAND OAK REMOVAL:	N/A DBH
OVER 60" GRAND OAK REMOVAL:	N/A DBH
GRAND OAK REPLACEMENT:	N/A DBH
TREES REPLACEMENT REQUIRED: TREES REPLACEMENT PROPOSED:	549 DBH 379 DBH IN PHASE 1 (170 DBH SHALL BE REPLACED IN PHASE 2)

MISCELLANEOUS NOTES —

. THIS PERMIT PLAN MEETS THE MINIMUM CRITERIA AS REQUIRED BY THE LAND DEVELOPMENT CODE. THE OWNER MAY INSTALL ADDITIONAL LANDSCAPING AT HIS DISCRETION.

2. NO TREE REPLACEMENTS ARE REQUIRED WITHIN TRACT M.

3. ALL TREES TO BE LOCATED IN CONFORMANCE WITH THE MORE STRINGENT CLEAR ZONE REQUIREMENTS OF EITHER TABLE 3-12 OF THE FDOT MANUAL OF UNIFORM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE FOR STREET AND HIGHWAYS (GREEN BOOK) OR SECTION 3.4 OF THE HILLSBOROUGH TRANSPORTATION MANUAL.

4. ALL TREES SHALL BE PLANTED PER DETAIL ON SHEET L1.08 AND IN ACCORDANCE WITH THIS PLAN. IF THE SPACING CRITERIA CANNOT BE MET, STREET TREES WILL BE PLANTED WITHIN THE FIRST 5 FEET OF THE FRONT YARD OF THE LOT OR WITHIN 5' OF THE RIGHT-OF-WAY.

LANDSCAPING NOTES

ALL TREES SHALL BE FLORIDA GRADE NO. 1 OR BETTER.

NO TREES SHALL BE PLANTED CLOSER THAN 30 FEET TO A STOP SIGN.

STREET TREES SHALL BE PLANTED WITHIN THE ROAD RIGHT-OF-WAY A MINIMUM OF FIVE (5) FEET FROM THE BACK OF CURB AND A MINIMUM OF THREE (3) FEET FROM THE INSIDE EDGE OF A PROPOSED OR ESTABLISHED SIDEWALK. WHEN POSSIBLE, STREET TREES SHOULD BE CENTERED AND EVENLY SPACED IN FRONT OF THE LOT AND EVENLY SPACED ON ROADWAYS NOT FRONTED BY LOTS.

WHEN NOT FEASIBLE TO PLANT TREES IN THE ROAD RIGHT-OF-WAY, AS DETERMINED BY THE ADMINISTRATOR, PLANTINGS SHALL BE PERMITTED ON THE LOT, PROVIDED THE TREES ARE INSTALLED WITHIN FIVE FEET OF THE RIGHT-OF-WAY.

STREET TREES SHALL BE PLANTED A MINIMUM OF TEN FEET FROM ANY ABOVE GROUND UTILITY, SUCH

MAXIMUM FLEXIBILITY SHALL BE GIVEN TO THE PLACEMENT OF STREET TREES TO ACCOMMODATE IMPROVEMENTS SUCH AS DRIVEWAYS, UTILITIES, LIGHTING, SITE TRIANGLE VISIBILITY, ETC. THE UTILITY NOTIFICATION CENTER SHOULD BE NOTIFIED TO VERIFY THE LOCATION OF UTILITY LINES

STREET TREE PLANTINGS SHALL BE IN COMPLIANCE WITH THE PLANTING STANDARDS AND ROADWAY LANDSCAPING GUIDELINES DESCRIBED IN GUIDELINES FOR LANDSCAPING HILLSBOROUGH COUNTY

ALL STREET TREES SHOWN ALONG LOT FRONTAGE SHALL BE PLANTED AT TIME OF HOME CONSTRUCTION. ALL TREES SHOWN IN COMMON AREAS SHALL BE PLANTED PRIOR TO INFRASTRUCTURE ACCEPTANCE EXCEPT AS APPROVED BY HILLSBOROUGH COUNTY.

PLANT MATERIAL SHALL CONFORM TO THE STANDARDS FOR GRADE #1 OR BETTER AS GIVEN IN THE LATEST "GRADES AND STANDARDS FOR NURSERY PLANTS, PARTS I AND II," FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES OR TO THE STANDARDS AS GIVEN IN THE LATEST "AMERICAN STANDARD FOR NURSERY STOCK," AMERICAN NATIONAL STANDARDS INSTITUTE.

A LAYER OF MULCH TO A MINIMUM DEPTH OF THREE (3) INCHES SHALL BE PROVIDED IN PLANT BEDS AND AROUND INDIVIDUAL TREES IN TURF AREAS.

AT THE TIME OF PLANTING, A TREE SHALL HAVE A MINIMUM HEIGHT OF 6 FEET.

NOT MORE THAN 50% OF THE LANDSCAPED AREA MAY BE PLANTED WITH SHALLOW-ROOTED TURFGRASS VARIETIES.

THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL LANDSCAPED AREAS WHICH SHALL BE MAINTAINED IN GOOD CONDITION SO AS TO PRESENT A HEALTHY, NEAT AND ORDERLY APPEARANCE, FREE OF REFUSE, DEBRIS AND WEEDS.

⟨→→ = 12" UNKNOWN TYPE TREE ≥ ★ = 12" CHERRY LAUREL

√ → = 12" WILLOW TREE → = 12" HOLLY TREE フゅん = 12" DEAD TREE

= 12" CHINESE TALLOW TREE ~ = 12" OAK TREE

→ 12" JACARANDA TREE ⟨→√√ = 12" MULBERRY TREE

~← = 12" PALM TREE = 12" BAY TREE √ 2 → = 12" MAGNOLIA TREE

マン = 12" CITRUS TREE (2) = 12" PECAN TREE = 12" EUCALYPTUS TREE

> = 12" CAMPHOR TREE ⟨→ → = 12" SYCAMORE TREE

= 12" PINE TREE = 12" AUSTRALIAN PINE

⟨→ = 12" CEDAR TREE √ = 12" ELM TREE

∠ → ■ = 12" MAPLE TREE ≥ 12" WAX MYRTLE TREE √2 → = 12" PUNKTREE

= 12" CYPRESS TREE = 12" EAR TREE

= 12" SWEET GUM TREE ⟨→ → = 12" HICKORY

= TREE HAVING ONE TRUNK AT BREAST HEIGHT, 12" IN DIAMETER

= TREE HAVING MULTIPLE TRUNKS AT BREAST HEIGHT 12", 13" AND 5" IN DIAMETER

= PALM TRANSPLANT = TREE SAVE = TREE REMOVE

SPACE INDICATES THAT ALL QUIRED PERMITS HAVE BEEN NSTRUCTION IS AUTHORIZE TO COMMENCE.

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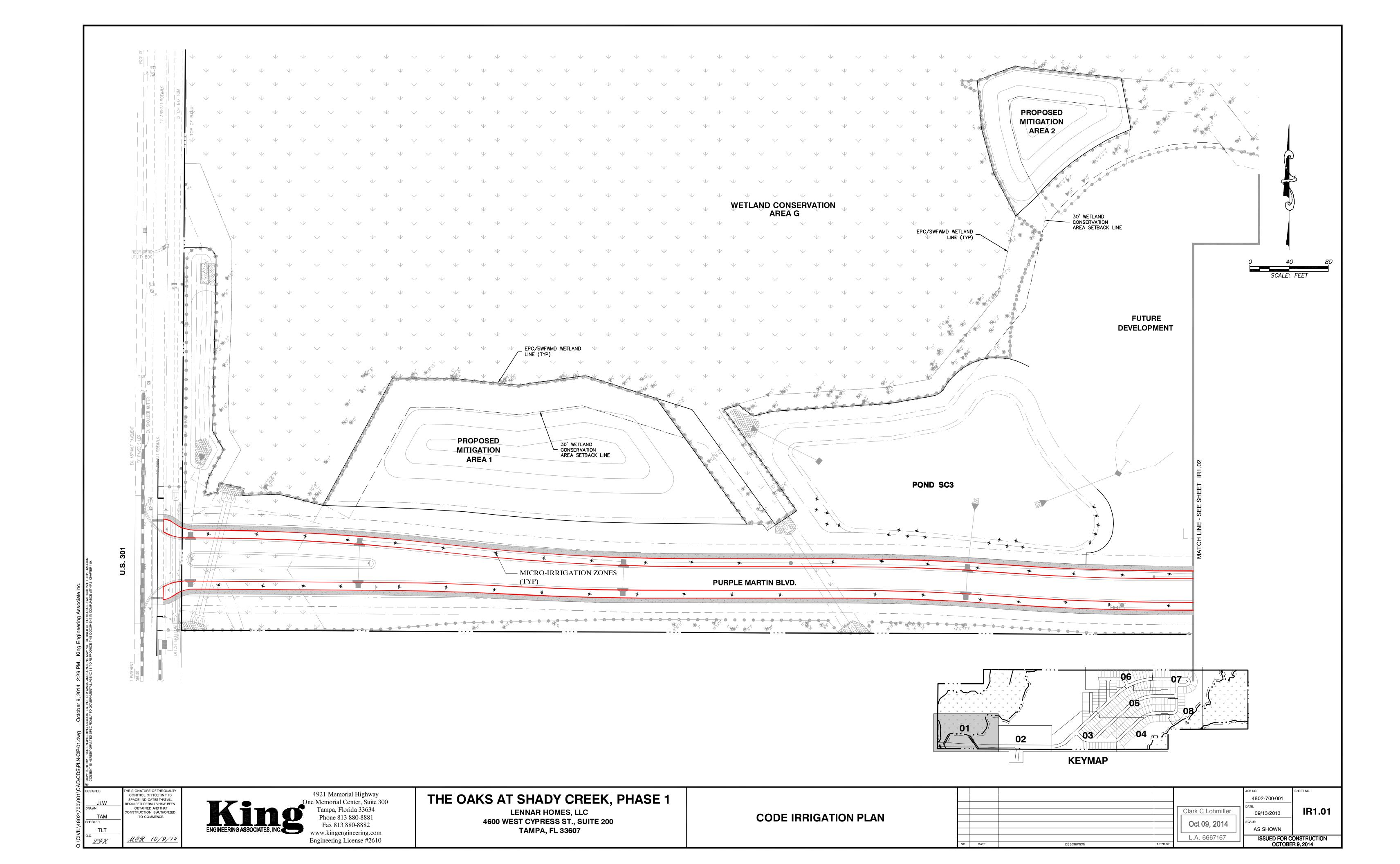
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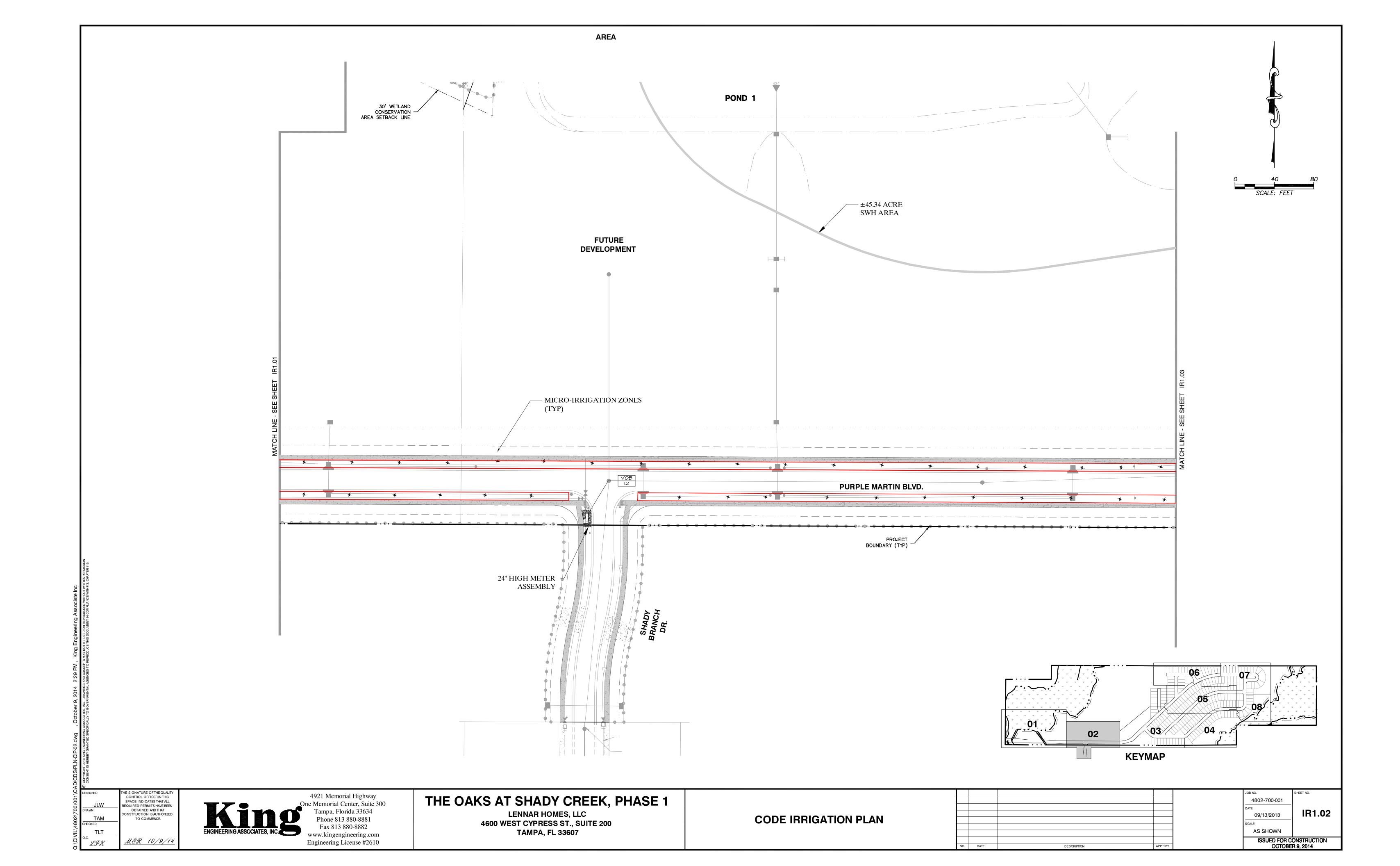
THE OAKS AT SHADY CREEK, PHASE 1

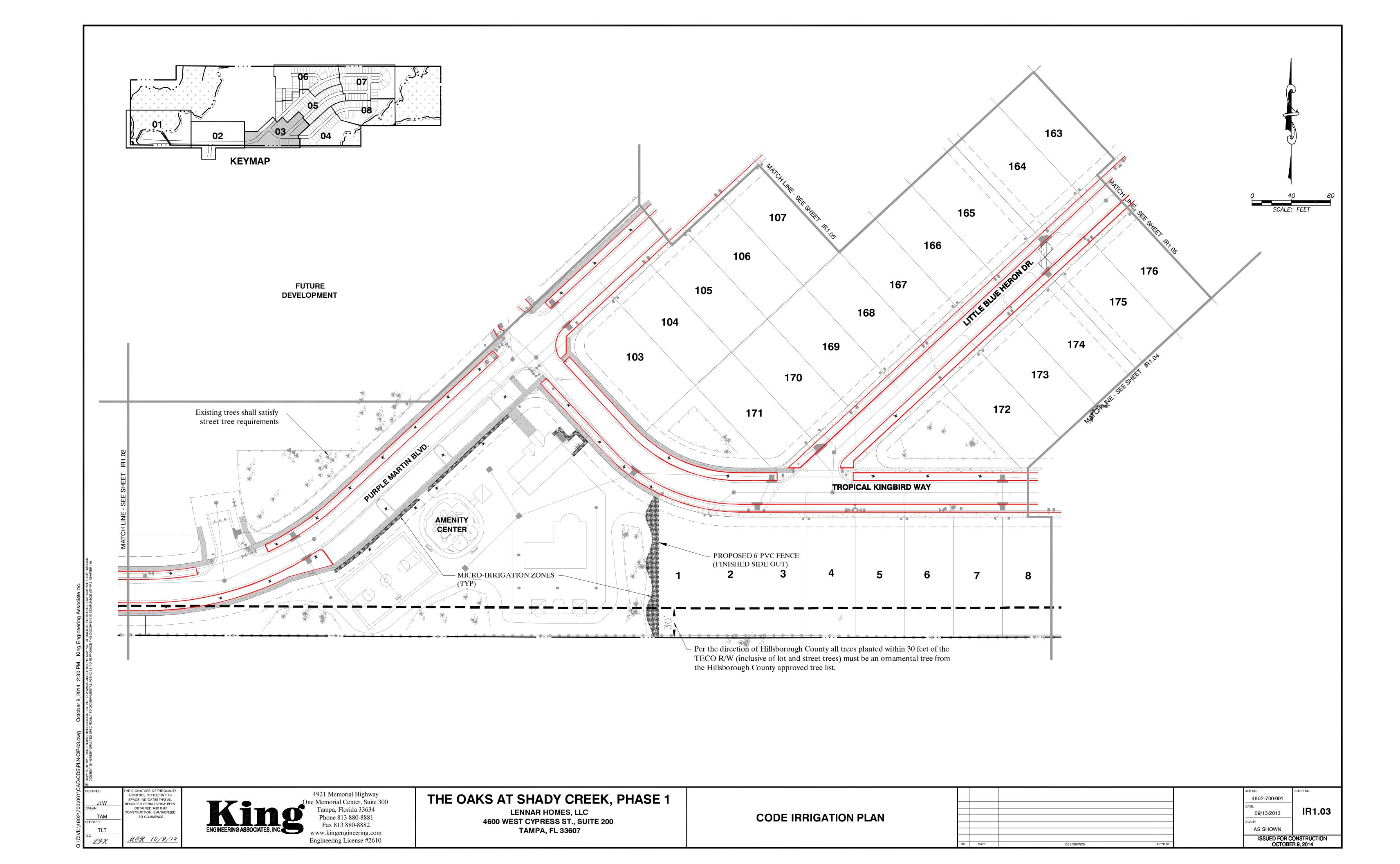
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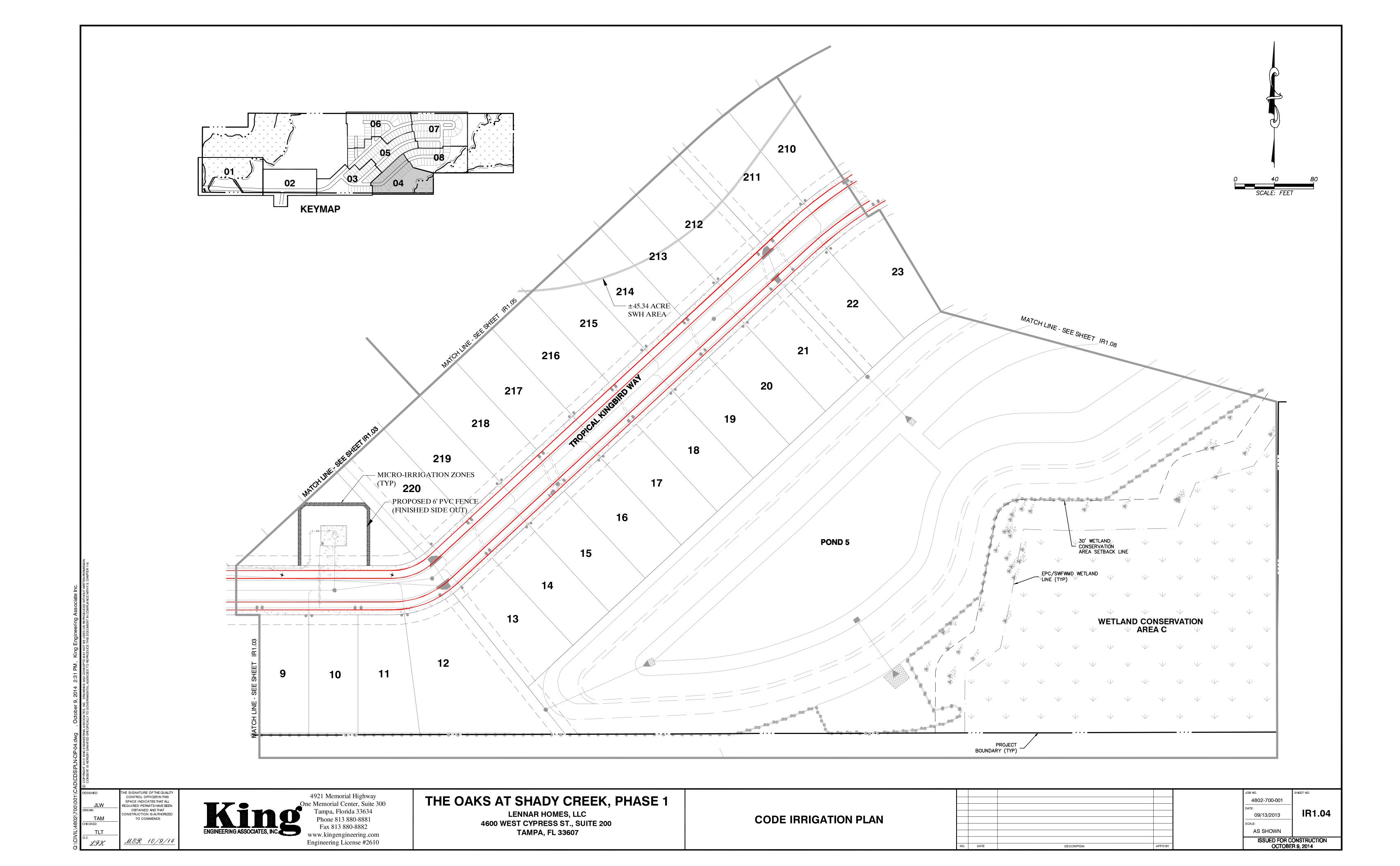
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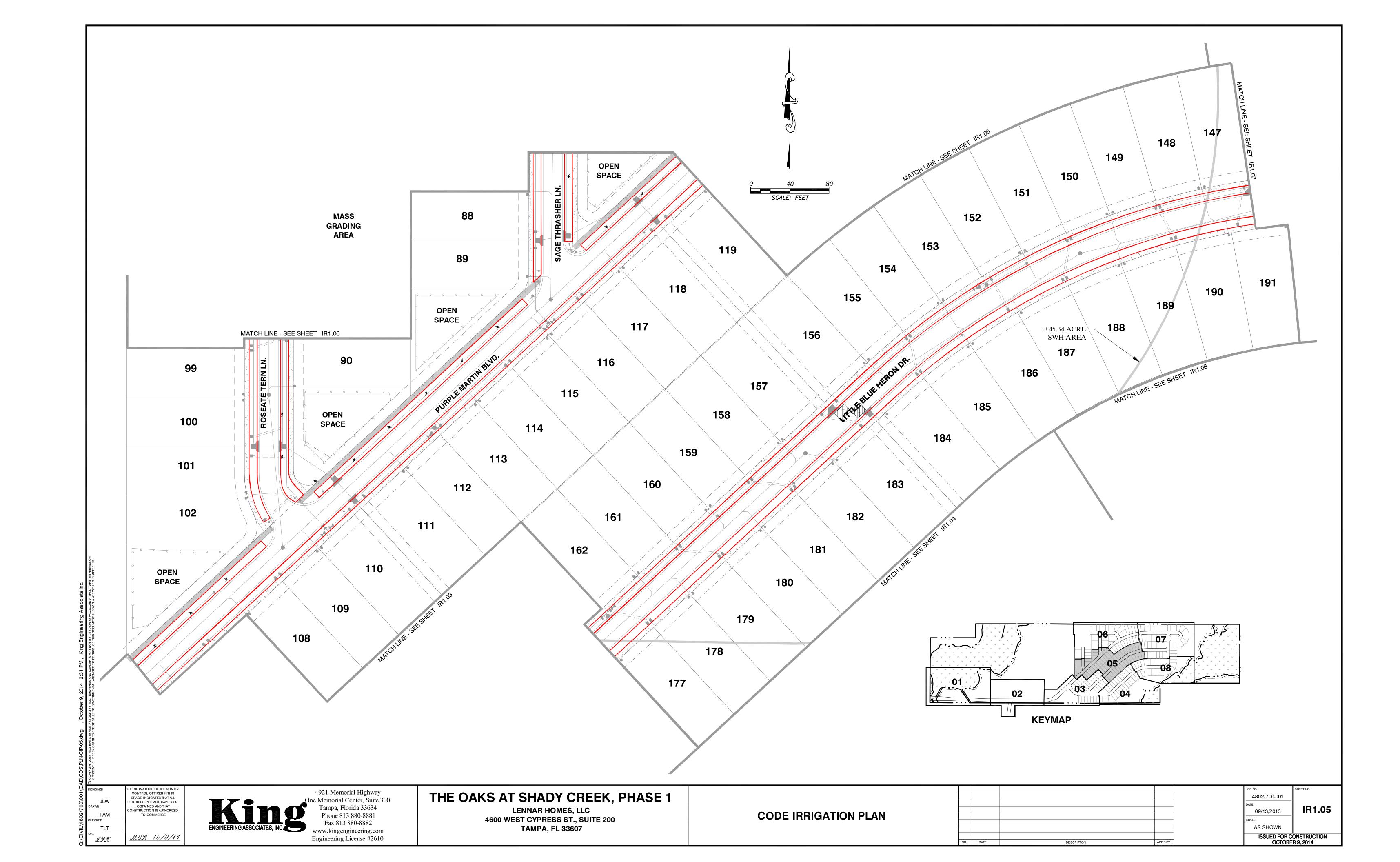
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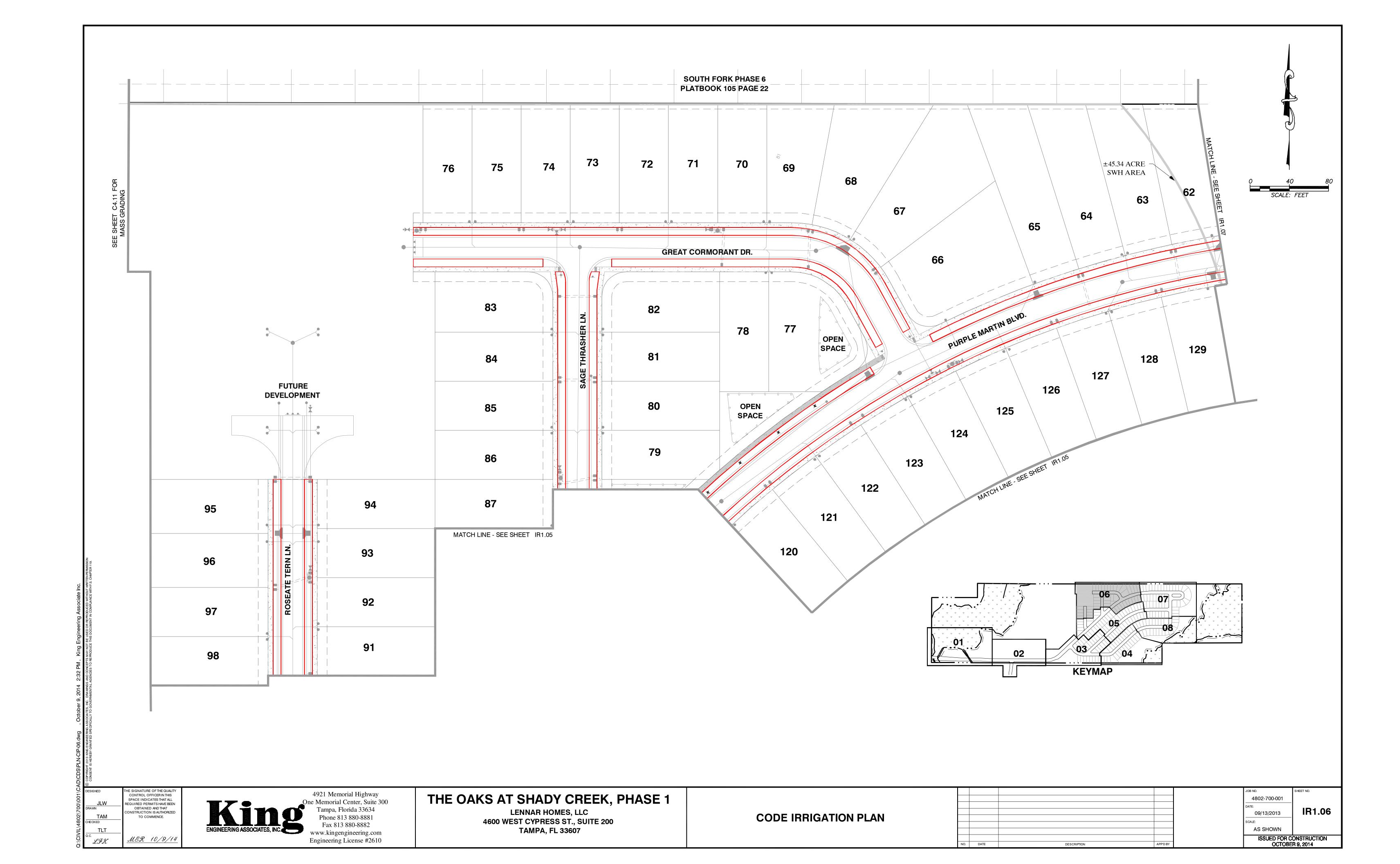


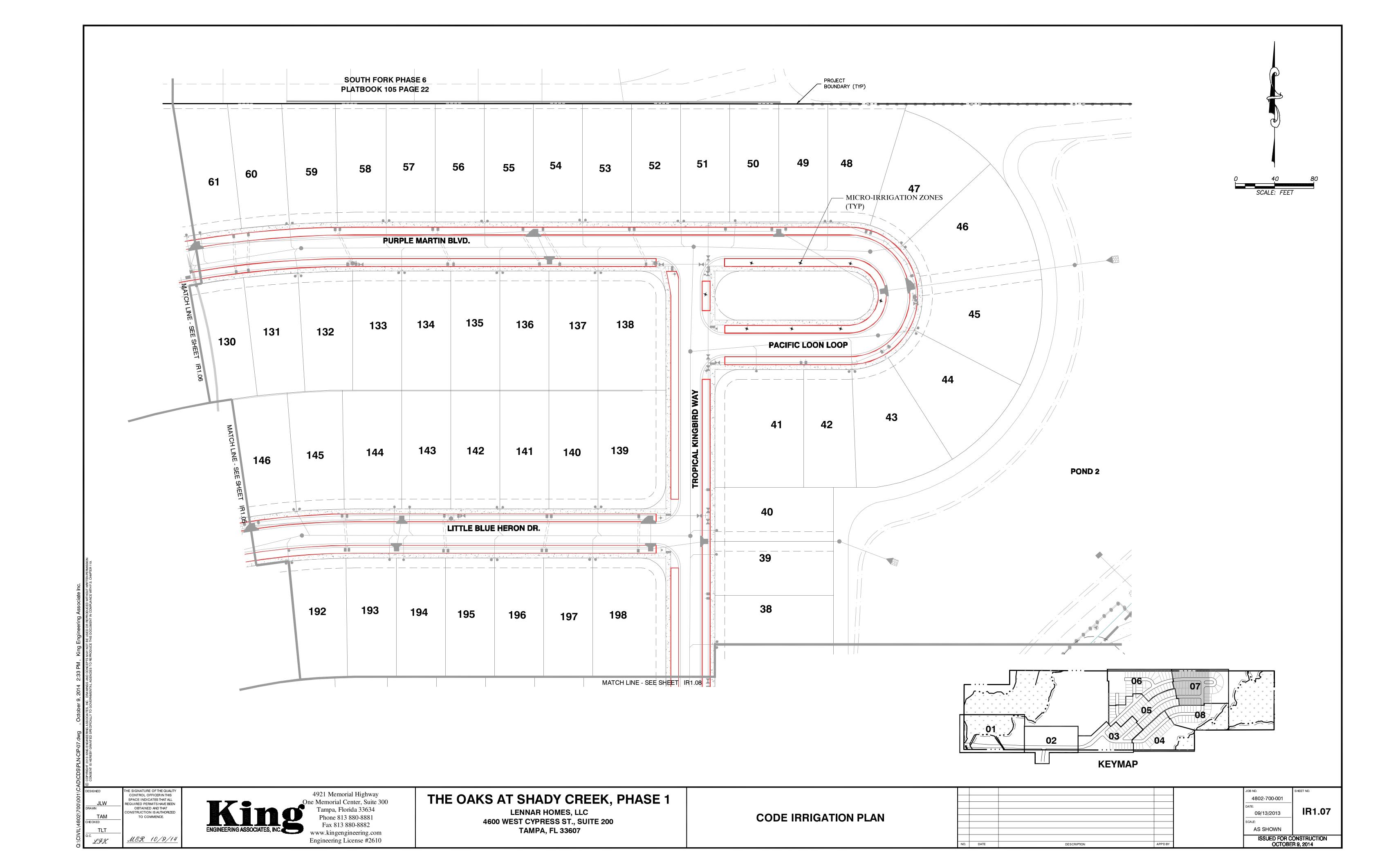


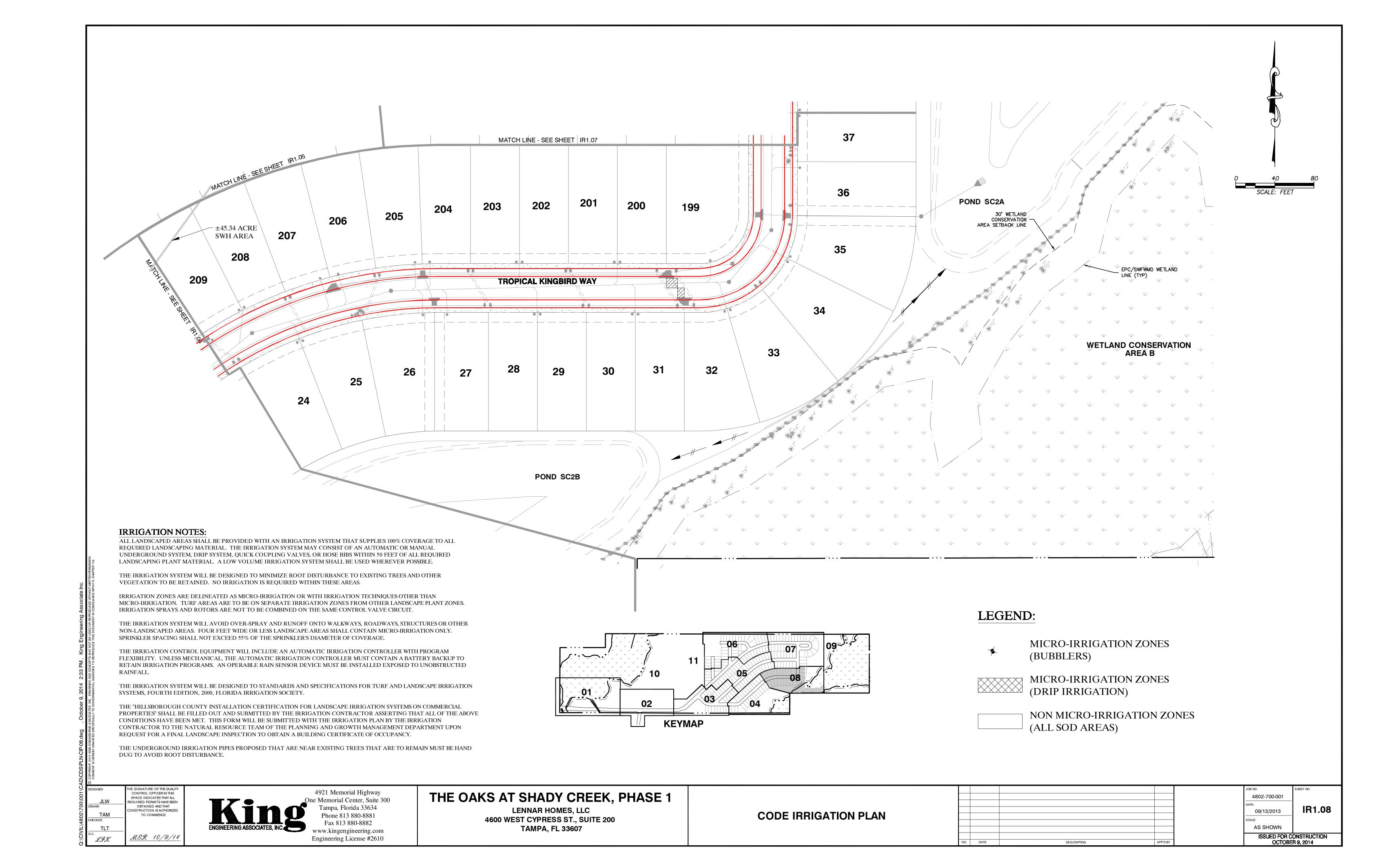


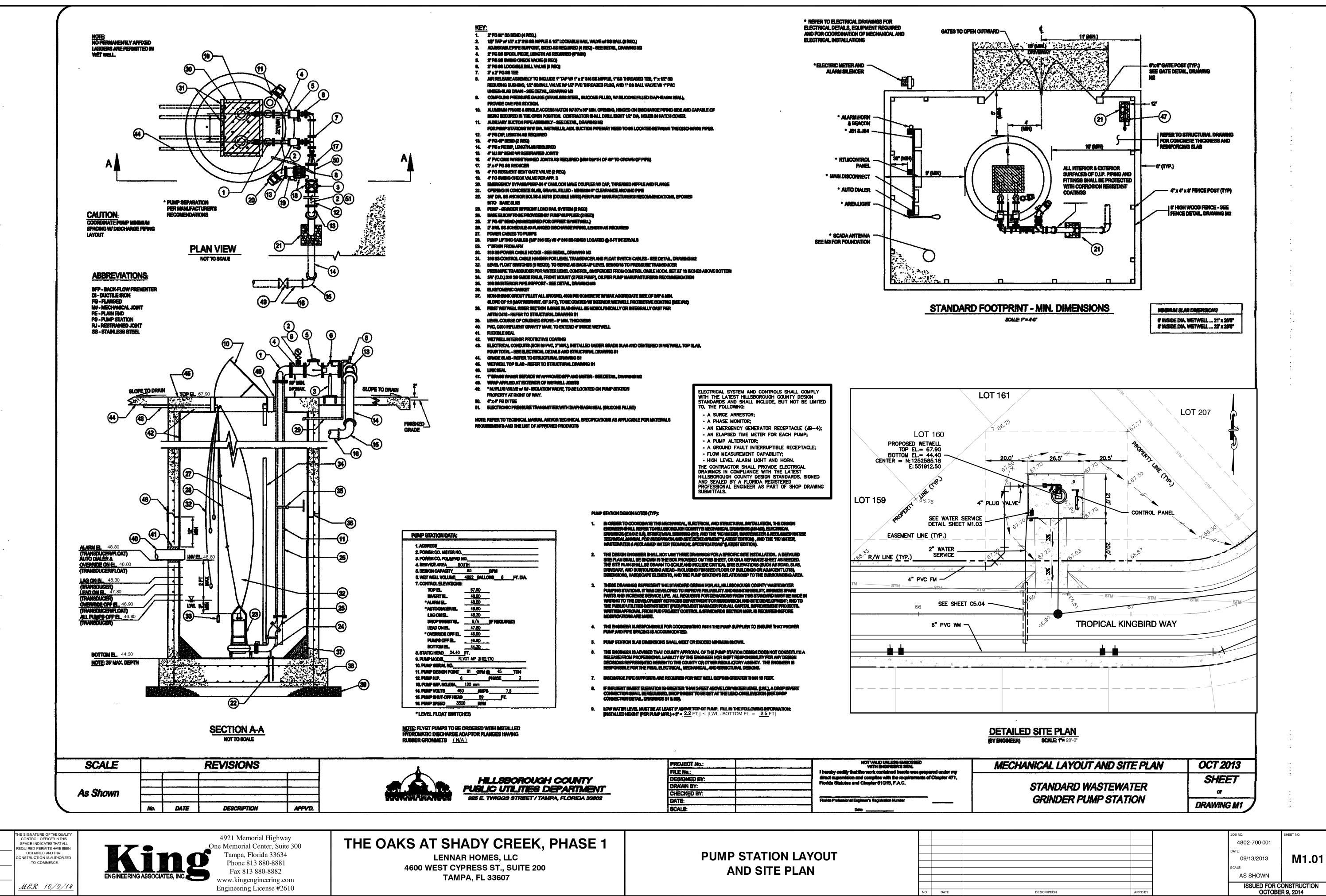




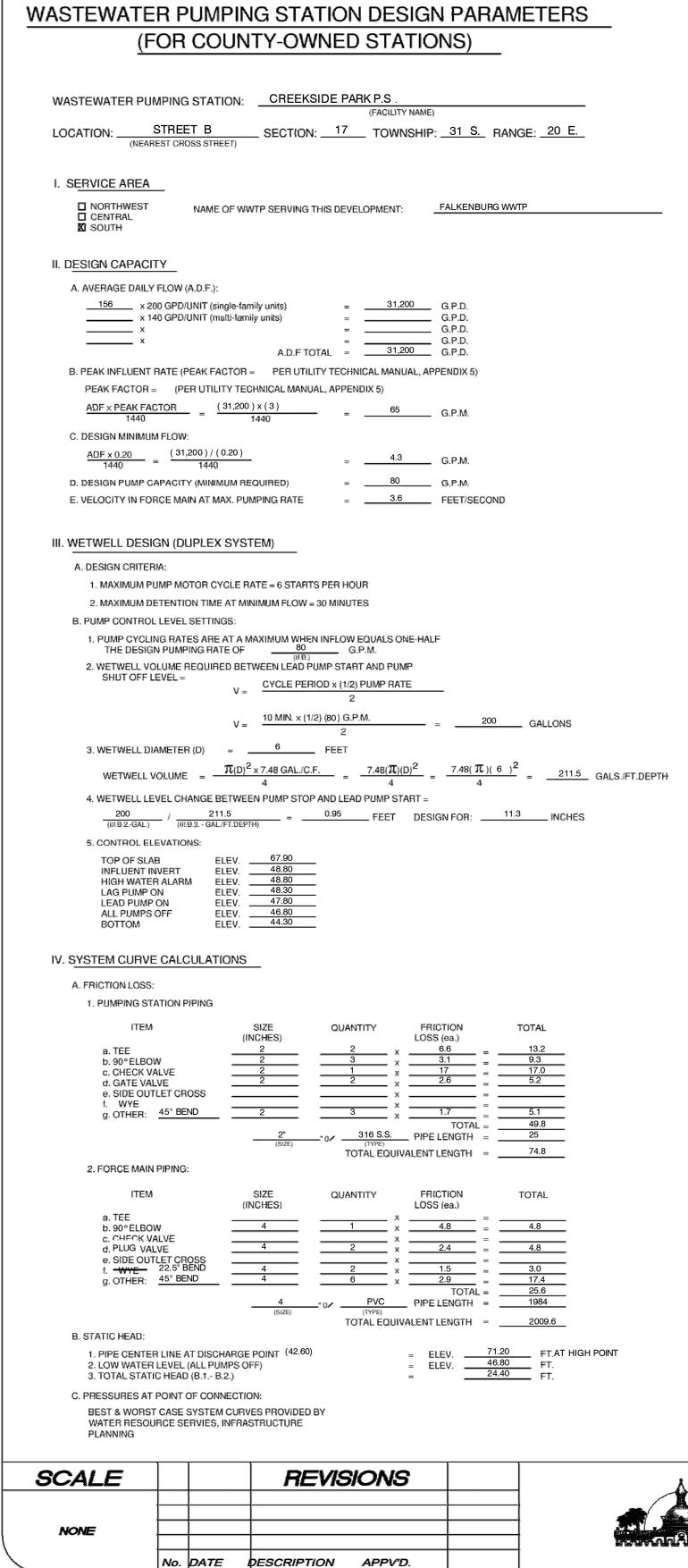


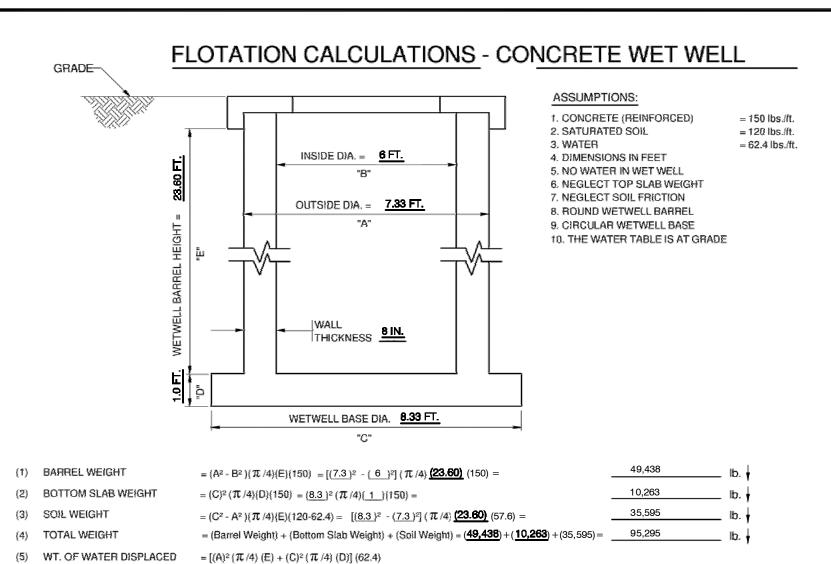






MJG



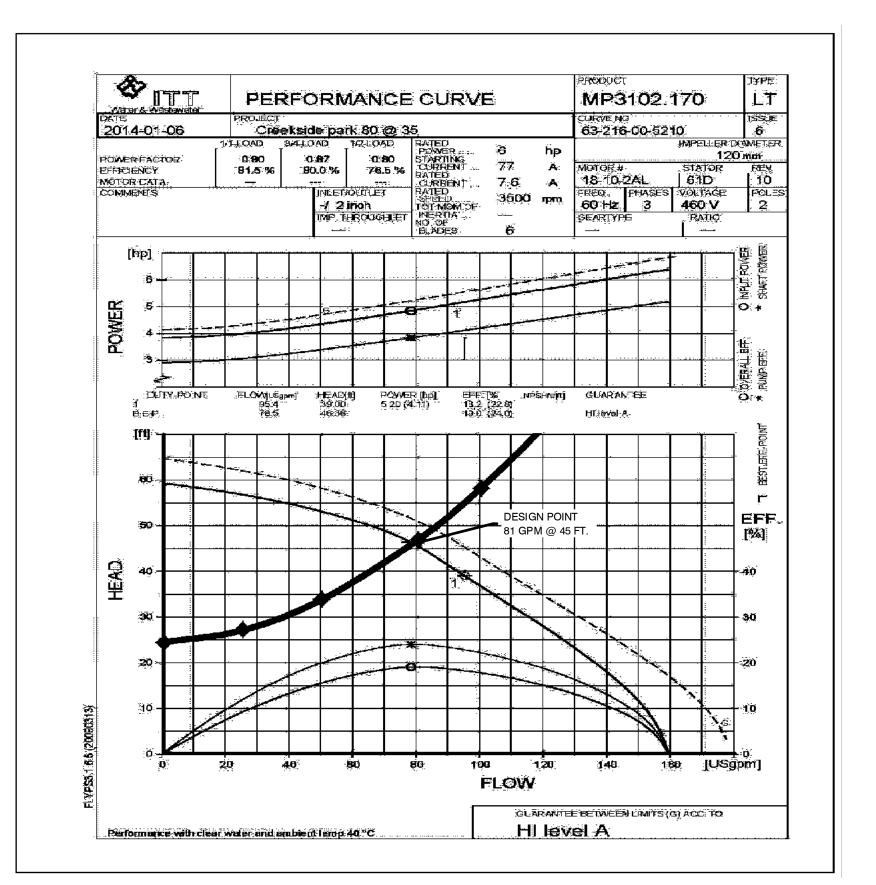


SYSTEM vs. PUMP PERFORMANCE CURVE

= $[(7.3)^2 (\pi/4) (23.60) + (8.3) (\pi/4) (1) (62.4) =$

 $\frac{\text{TOTAL WEIGHT}}{\text{WT. OF WATER DISPLACED}} = \frac{(4)}{(5)} = \frac{(95,295) \text{ lb.} \, 1}{(63,846) \text{ lb.} \, 1} = \frac{1.49}{}$

PUMP MAN	UFACTURER:	PUMP MODEL:		RPM:	HP:
FL	YGT	MP3102.1	70	3500	6
GPM:	TDH:	IMPELLER DIA./NO.:	PHASE:	VOLTS:	AMPS:
81	45	120 mm	3	460	7.6



Item Flow (gpm)	0	25	50	80	100	125	150	175	200
A. Friction Loss									
1. Equivalent Length									
Pump Station Piping:	0.0	1.3	4.6	10.9	16.4	24.8	34.8	46.3	59.3
74.80 L.F. of 2 in. 316L SS Pipe									
2. Equivalent Length									
Force Main Piping:	0.0	1.3	4.8	11.6	17.5	26.4	37.0	49.3	63.1
2007.20 L.F. of 4 in. PVC C900 DR 18 Pipe									
B. Static Head	24.40	04.40	0.4.40	0.4.40	0.4.40	0.4.40	0.4.40	04.40	04.40
24.40 Feet	24.40	24.40	24.40	24.40	24.40	24.40	24.40	24.40	24.40
C. Design Pressure at Point of Connection	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D. Total Loss (feet)	24.40	27.01	33.80	46.84	58.31	75.67	96.26	120.00	146.82

No. DATE DESCRIPTION APPV'D.

HILLSBOROUGH COUNTY WATER RESOURCE SERVICES

PROJECT No.:	
FILE No.:	
DESIGNED BY:	
DRAWN BY:	
CHECKED BY:	
DATE:	NOV. 2006
SCALE:	NONE

PUMP STATION DESIGN PARAMETERS

NOT VALID UNLESS EMBOSSED I hereby certify that the work contained herein was prepared under my direct supervision and complies with the requirements of Chapter 471, Florida Statutes and Chapter 61G15, F.A.C. Print Name:

SHEET OF

E SIGNATURE OF THE QUALIT CONTROL OFFICER IN THIS SPACE INDICATES THAT ALI QUIRED PERMITS HAVE BEEN OBTAINED AND THAT NSTRUCTION IS AUTHORIZE MJG TO COMMENCE.

MER 10/9/14

www.kingengineering.com

4921 Memorial Highway One Memorial Center, Suite 300 Tampa, Florida 33634 Phone 813 880-8881 Fax 813 880-8882

Engineering License #2610

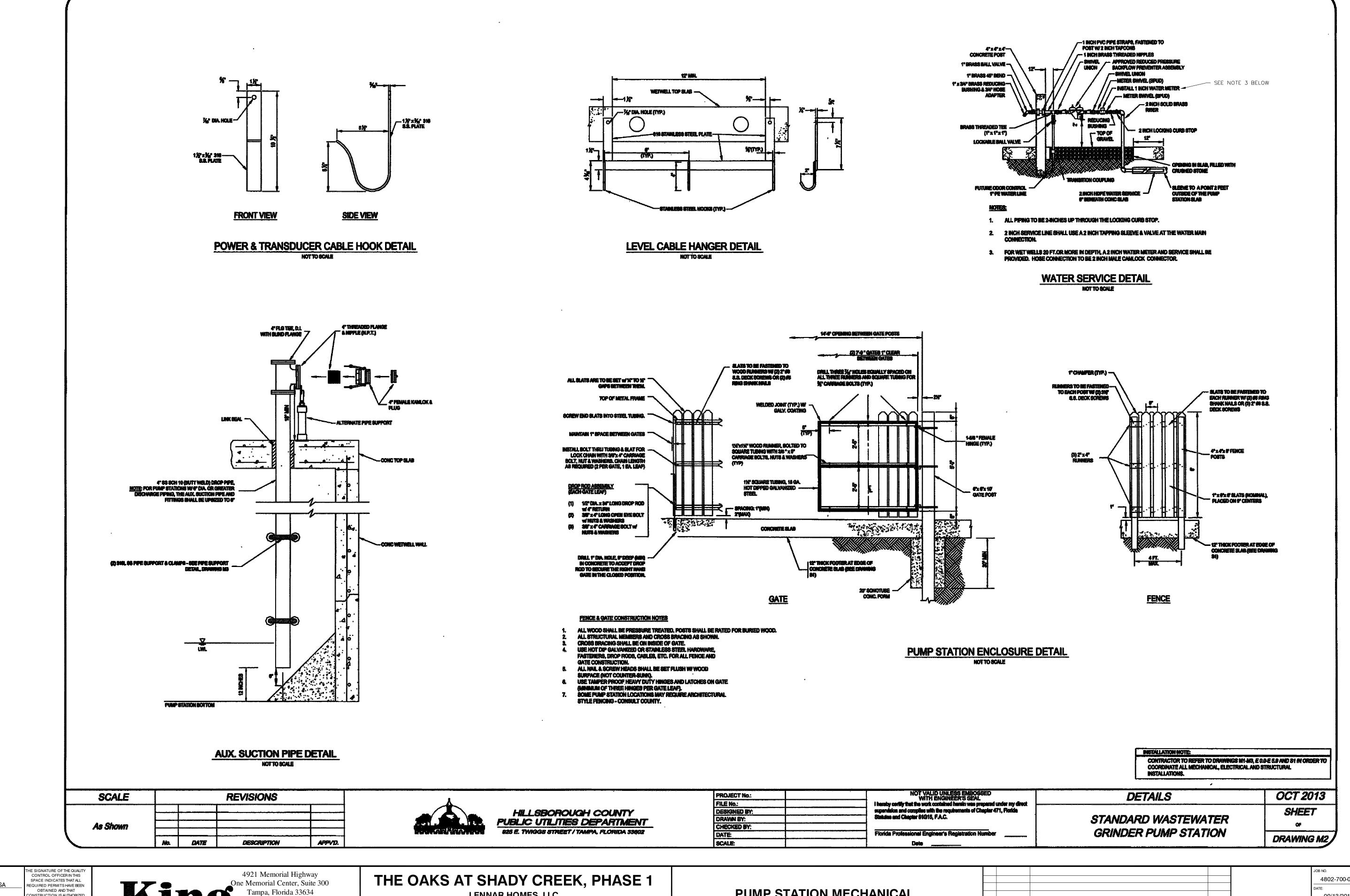
THE OAKS AT SHADY CREEK, PHASE 1

LENNAR HOMES, LLC 4600 WEST CYPRESS ST., SUITE 200 **TAMPA, FL 33607**

PUMP STATION DESIGN PARAMETERS

NO.	DATE	DESCRIPTION	APP'D BY	

4802-700-001 M1.02 AS SHOWN ISSUED FOR CONSTRUCTION OCTOBER 9, 2014



DESIGNED

PSA
DRAWN

MJG
CHECKED

PSA

Q.C.

THE SIGNATURE OF THE QUALITY
CONTROL OFFICER IN THIS
SPACE INDICATES THAT ALL
REQUIRED PERMITS HAVE BEEN
OBTAINED AND THAT
CONSTRUCTION IS AUTHORIZED
TO COMMENCE.

MCR 10/9/14

4921 Memorial Highway
One Memorial Center, Suite 30
Tampa, Florida 33634
Phone 813 880-8881
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Engineering License #2610

LENNAR HOMES, LLC 4600 WEST CYPRESS ST., SUITE 200 TAMPA, FL 33607 PUMP STATION MECHANICAL DETAILS

NO.	DATE	DESCRIPTION	APP'D BY	
		<u> </u>		

JOB NO.

4802-700-001

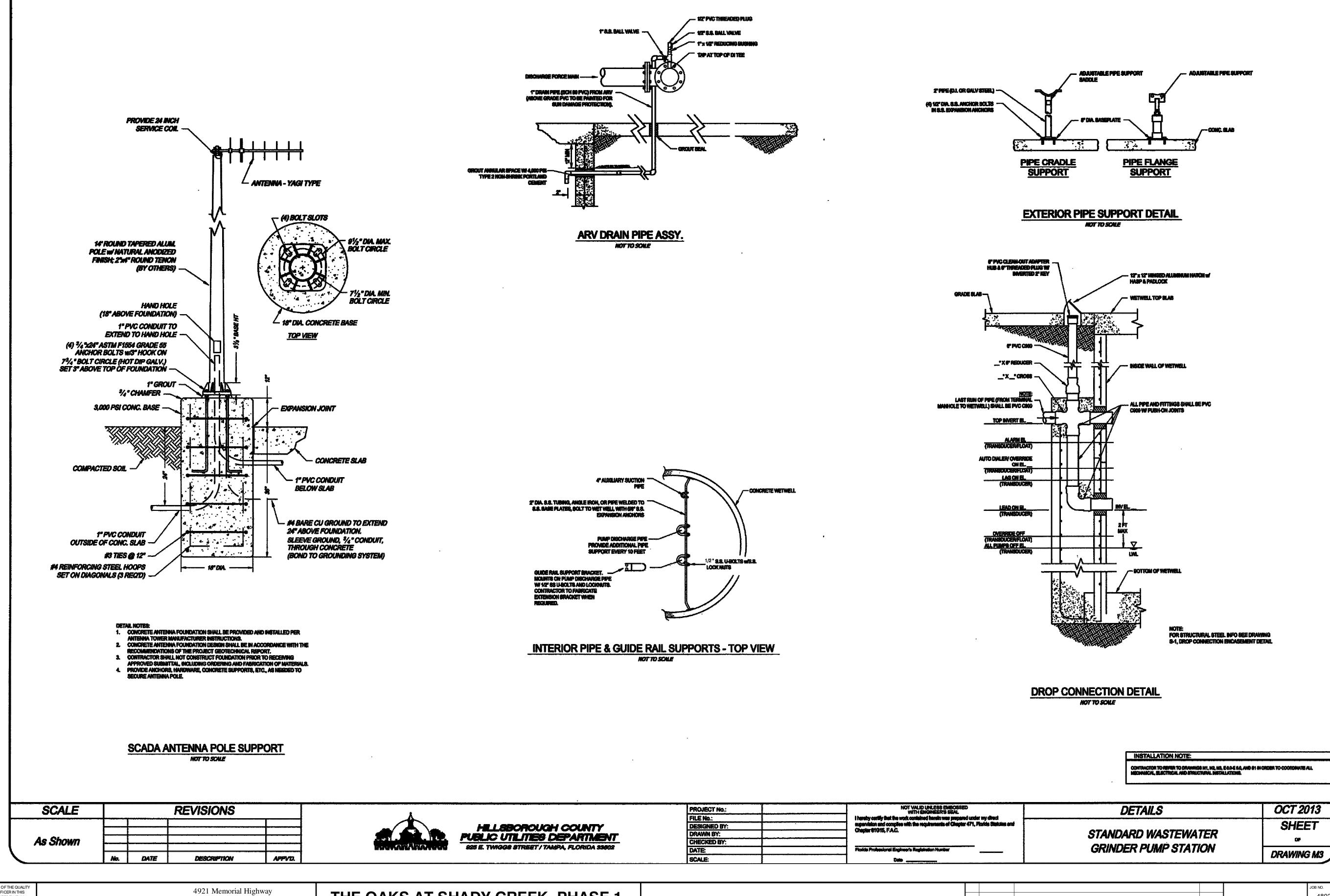
DATE:

09/13/2013

SCALE:

AS SHOWN

ISSUED FOR CONSTRUCTION OCTOBER 9, 2014



IE SIGNATURE OF THE QUALITY CONTROL OFFICER IN THIS SPACE INDICATES THAT ALL QUIRED PERMITS HAVE BEEN OBTAINED AND THAT ONSTRUCTION IS AUTHORIZED MJG TO COMMENCE. MER 10/9/14



One Memorial Center, Suite 300 Tampa, Florida 33634 Phone 813 880-8881

THE OAKS AT SHADY CREEK, PHASE 1

LENNAR HOMES, LLC 4600 WEST CYPRESS ST., SUITE 200 **TAMPA, FL 33607**

PUMP STATION MECHANICAL **DETAILS**

NO.	DATE	DESCRIPTION	APP'D BY	

4802-700-001 M1.04 09/13/2013 AS SHOWN ISSUED FOR CONSTRUCTION OCTOBER 9, 2014

STRUCTURAL DRAWINGS SHALL BE WORKED TOGETHER WITH MECHANICAL AND ELECTRICAL DRAWINGS TO PROPERLY LOCATE WALL PIPES, PIPE SLEEVES, ANCHOR BOLTS, BLOCKOUTS, ETC. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE COUNTY ENGINEER BEFORE PROCEEDING WITH THE WORK.

2. PRECAUTIONS:

CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT FLOATATION OF STRUCTURES FULLY UNTIL CONSTRUCTED AND BACKFILL IS IN PLACE AND COMPACTED.

3. DESIGN CRITERIA AND LOADS:

CONCRETE SANITARY ENGINEERING STRUCTURES ACI 318 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE

ASTM C 478 STANDARD SPECIFICATIONS FOR PRECAST REINFORCED **CONCRETE MANHOLE SECTIONS**

DESIGN LIVE LOADS:

WET WELL TOP SLAB AASHTO HS20-44. AASHTO HS20-44. SITE PAD - VEHICULAR AREA BEARING SITE PAD - NON-VEHICULAR AREA BEARING 300 PSF.

NET ALLOWABLE SOIL BEARING CAPACITY: 1500 PSF.

4. CAST-IN-PLACE CONCRETE:

CAST-IN-PLACE CONCRETE SHALL HAVE THE FOLLOWING MINIMUM **COMPRESSIVE STRENGTH AT 28 DAYS:**

WET WELL TOP SLAB WET WELL WALLS 4,000 PSI WET WELL BASE SLAB 4.000 PSI SLABS ON GRADE 4.000 PSI PIPE SUPPORTS, PUMPS PADS, ENCASEMENTS 3,000 PSI

5. PRECAST CONCRETE:

PRECAST WET WELL CONCRETE SHALL HAVE MINIMUM 4,000 PSI **COMPRESSIVE STRENGTH AT 28 DAYS.**

6. REINFORCING STEEL:

REINFORCING STEEL FOR ALL BARS SHALL CONFORM TO ASTM 615, GRADE 60 OF US MANUFACTURE.

WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.

7. REINFORCEMENT CLEARANCE:

CLEARANCE OF REINFORCING STEEL FROM THE FACE OF CONCRETE TO THE OUTERMOST TIE OR BAR SHALL BE 2". UNLESS OTHERWISE NOTED ON THE DRAWINGS.

8. ANCHOR BOLTS:

ANCHOR BOLTS SHALL BE TYPE 316 STAINLESS STEEL. ANCHOR BOLTS TO BE DESIGNED AND DETAILED BY PUMP SUPPLIER.

9. ALUMINUM ACCESS HATCH:

ACCESS HATCH COVER SHALL BE ALUMINUM AND TO BE SIZED AND DETAILED AS PER SPECIFICATIONS.

10. SHOP DRAWINGS:

THE FOLLOWING SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW. FABRICATION SHALL NOT COMMENCE UNTIL ALL REVIEWS ARE

- REINFORCING STEEL PRECAST CONCRETE - GROUTS

- WATERPROOF JOINTS

- ANCHOR BOLTS - CONCRETE MIX DESIGNS - ACCESS HATCHS AND FRAMES

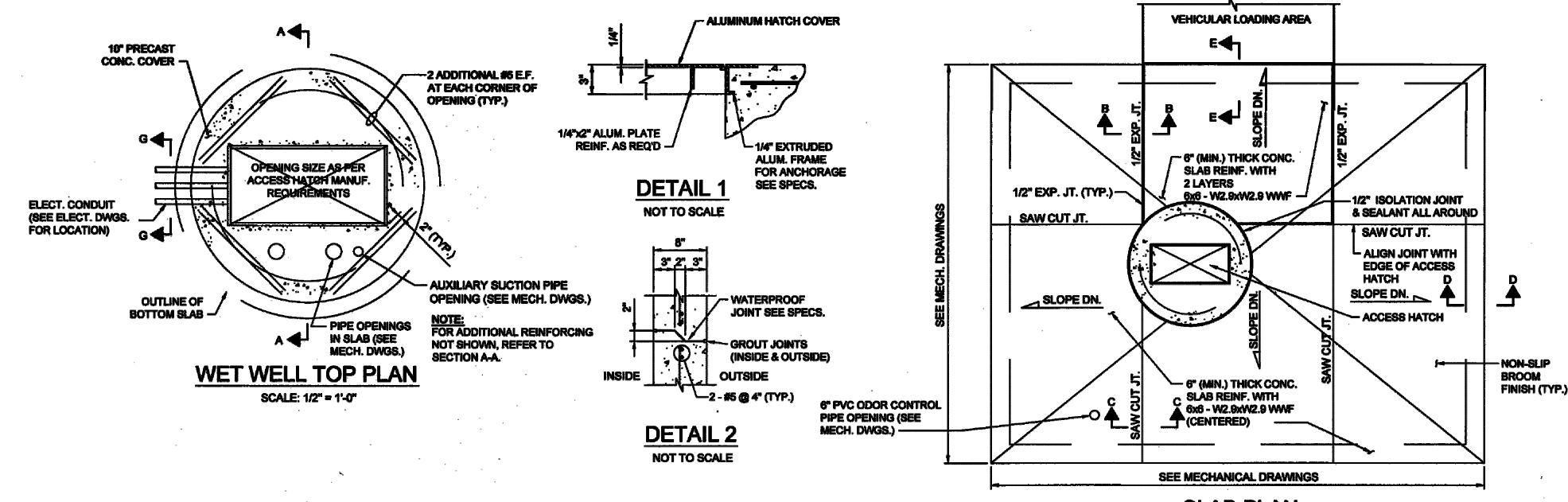
- EXPANSION JOINT MATERIAL

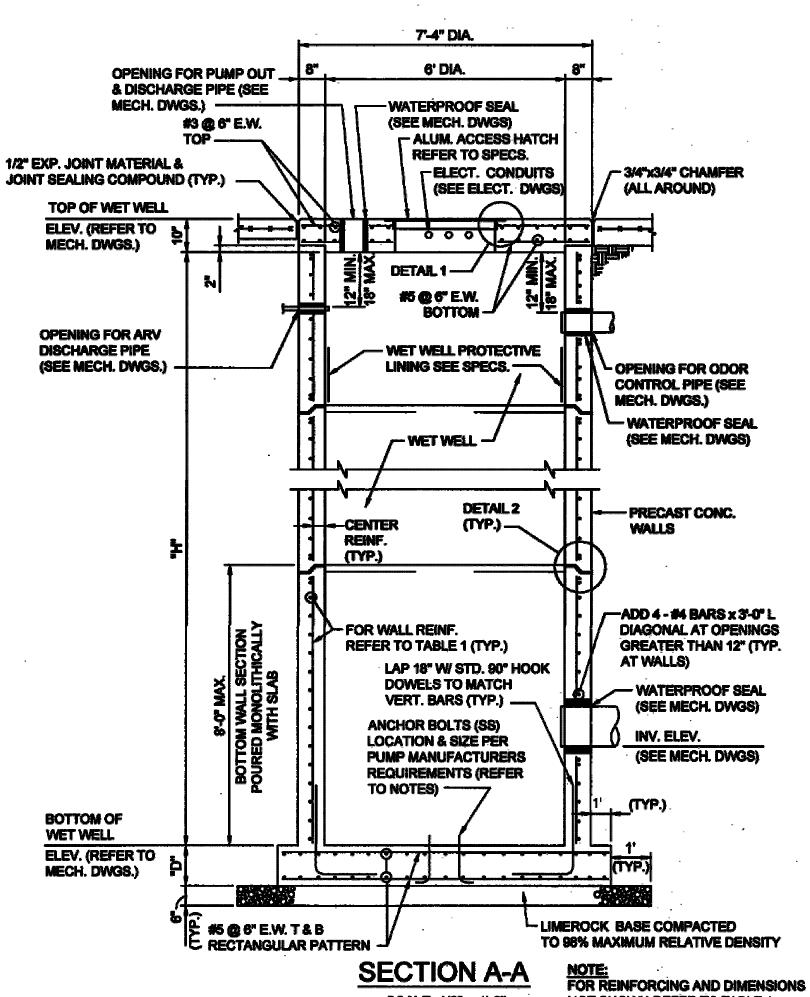
11. FOUNDATIONS:

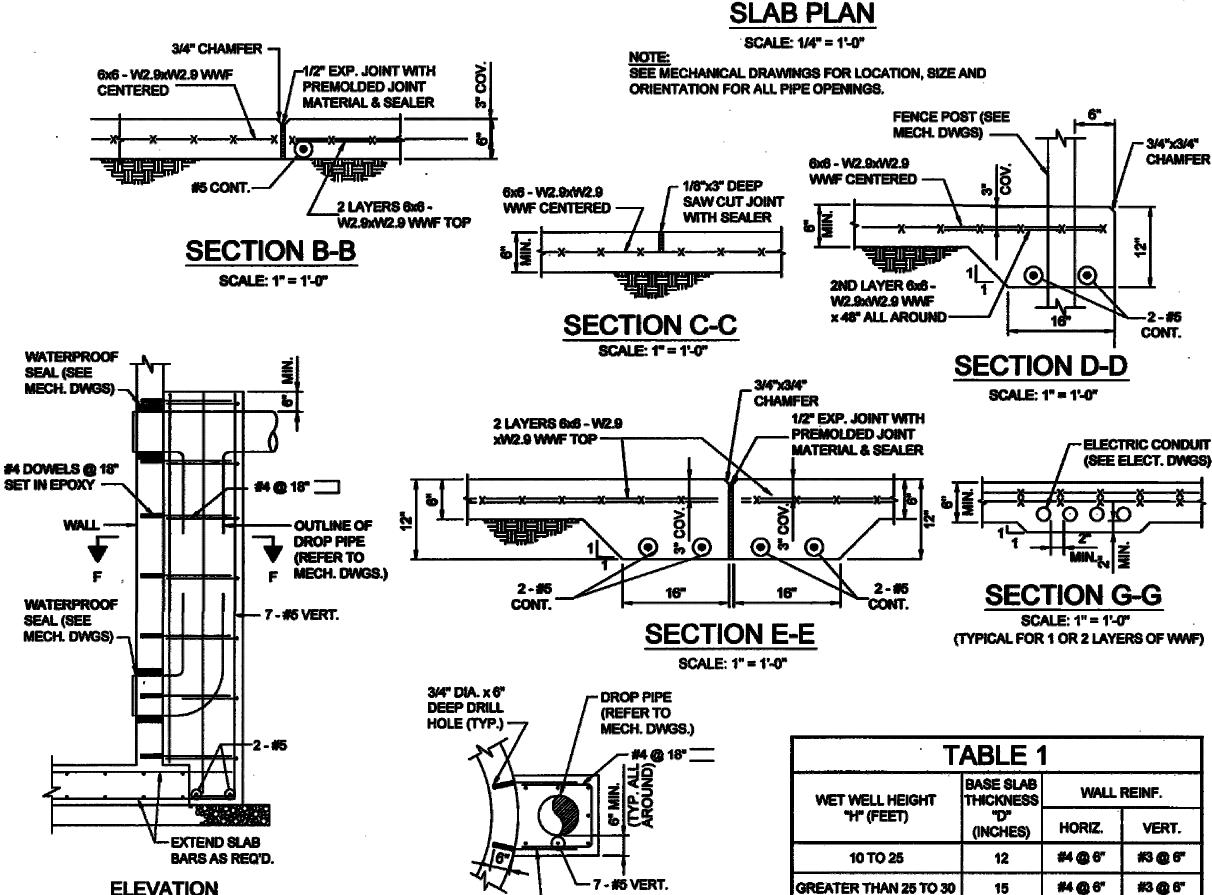
REMOVE ALL ORGANIC TOPSOIL, SURFACE VEGETATION, DEBRIS, ETC.

A MINIMUM OF 6 INCH LIMEROCK BEDDING COMPACTED TO 98 % RELATIVE DENSITY SHALL BE PLACED UNDER THE WET WELL BASE SLABS.

DEWATER EXCAVATION DURING WET WELL INSTALLATION. ALL WORK TO BE DONE IN THE "DRY".



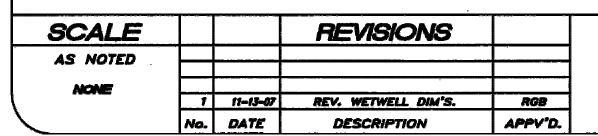




-- #4 DOWELS @ 18" x 2'-3"L

SET IN EPOXY GROUT

SECTION F-F





HILLSBOROUGH COUNTY WATER RESOURCE SERVICES 925 E. TWIGGS STREET / TAMPA, FLORIDA 33602

SCALE: 1/2" = 1'-0"

PROJECT No.: FILE No.: DESIGNED BY: PBS&J DRAWN BY: PBS&J CHECKED BY: PBS&J MARCH 2008 AS SHOWN SCALE:

NOT SHOWN REFER TO TABLE 1.

6 FOOT DIAMETER WET WELL PLANS, SECTIONS, DETAILS and NOTES

STRUCTURAL

GREATER THAN 25 TO 30

24" MIN. EVERY OTHER END.

WILLIAM P. PITCHER, P.E. FLORIDA STRUCTURAL ENGINEER #31852 FBPR CERTIFICATION OF AUTHORIZATION NO. 24

2. CENTER REINFORCING IN WALLS.

2001 N.W. 10715. AVENUE 10341, PLORIDA 28172-2807 PHÓNE: (200) 062-7270 FAY: (200) 004-7810

15

NOTES:

1. LAP HORIZONTAL BARS 38" AND STAGGER LAPS

3. PROVIDE BASE SLAB REINFORCING AS DETAILED.

SHEET 1 OF 1 DRAWING S1

E SIGNATURE OF THE QUALITY CONTROL OFFICER IN THIS SPACE INDICATES THAT ALI QUIRED PERMITS HAVE BEE OBTAINED AND THAT DNSTRUCTION IS AUTHORIZED MJG TO COMMENCE.

MER 10/9/14

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THE OAKS AT SHADY CREEK, PHASE 1

LENNAR HOMES, LLC 4600 WEST CYPRESS ST., SUITE 200 **TAMPA, FL 33607**

PUMP STATION STRUCTURAL PLAN

ELEVATION

DROP CONNECTION

ENCASEMENT DETAIL

SCALE: 1/2" = 1'-0"

JOB NO.	SHEET NO.	
4802-700-001		
DATE:		
09/13/2013	S1.01	
SCALE:		
AS SHOWN		
ISSUED FOR CONSTRUCTION OCTOBER 9, 2014		