

VICINITY MAP
Hillsborough County, Florida
Section 30, Township 27 South, Range 18 East

TREE LEGEND

AP --- AUSTRALIAN PINE	NP --- NORFOLK PINE
BC/BCH --- BLACK CHERRY	PL --- LONGLEAF PINE
C --- CYPRESS	PC --- PECAN
CS --- CHINA BERRY	PS --- PERSIMMON
CL --- CHERRY LAUREL	PLM --- ROYAL PALM
CM --- CAMPHOR	PKM --- PINK PALM
CO --- COCONUT PALM	PT --- PAPER TREE
CP --- CABBAGE PALM (SABAL PALM)	QP --- QUEEN PALM
EL --- ELM	RB --- RED BAY
F --- FIG (STRANGLER FIG)	RM --- RED MAPLE
FW --- FIDDLEWOOD	SB --- SWEET BAY MAGNOLIA
H --- HICKORY	SC --- SYCAMORE
LA --- LAUREL OAK (DIAMOND OAK)	SG --- SWEET GUM
LB --- LOBLOLLY BAY	SL --- SLASH PINE (YELLOW PINE)
LI --- LIVE OAK	SP --- SAND PINE (SCRUB PINE)
M --- MAGNOLIA	T --- TALLOW WOOD
MB --- MARLBERRY	TO --- TURKEY OAK
MG --- SOUTHERN MAGNOLIA	WO --- WATER OAK
MH --- MAHOGANY	WP --- WASHINGTON PALM
MY --- MYRTLE OAK	WY --- WAX MYRTLE

NOTE: Trees by nature are irregular in size and shape. Every effort is made to accurately locate trees. The tree size is determined at diameter breast height. The tree location is the center of the tree. This location may be different if located from a different direction. All tree locations should be field checked if critical to design.

DESCRIPTION
PARCEL "A"

A portion of the East 1/2 of the NE 1/4 of the NE 1/4 of Section 13, Township 27 South, Range 18 East, Hillsborough County, Florida, being more particularly described as follows:

COMMENCE at the Northeast corner of said Section 13, thence S.00°12'00"E. 25.00 feet along the East boundary of said Section 13, to a point on the South boundary of Sunset Lane, also known as State Road 5-583-A, being a 50' Right-of-Way as described in Deed Book 1822, Page 292 of the Public Records of Hillsborough County, Florida, thence continue along said East boundary S.00°12'00"E., a distance of 593.25 feet to the Southwesterly boundary of that part of Sunset Lane Extension, a 50 foot wide Public Right-of-Way per Florida Department of Transportation (FDOT) Right-of-Way Map "Sunset Lane Extension" Section 1076-151 & Nettles Road (50' R/W) Commissioner Minute Book T, Page 267, as recorded in the Public Records of Hillsborough County, Florida, for a POINT OF BEGINNING, thence continue along the East boundary of said Section 13, S.00°12'00"E., a distance of 701.34 feet to the Southerly boundary of said East 1/2 of the Northeast 1/4 of the Northeast 1/4 of said Section 13, thence along said Southerly boundary, S.89°25'33"W., a distance of 660.38 feet; to the Westerly boundary line of said East 1/2 of the Northeast 1/4 of the Northeast 1/4 of said Section 13; thence along said Westerly boundary line, N.00°12'50"W., a distance of 1297.21 feet to the South boundary of said Sunset Lane, thence along said South boundary, N.89°39'02"E., a distance of 151.69 feet to a point on the Southwesterly boundary of said Sunset Lane Extension, thence along said Southwesterly boundary S.40°53'33"E., a distance of 780.72 feet to the POINT OF BEGINNING.

Area = 16.185 Acres ±

INDEX OF CONSTRUCTION PLANS

SHEET NO.	DESCRIPTION
1	PAVING, GRADING, AND DRAINAGE PLAN
2	GENERAL NOTES & ROAD SECTIONS
3	CROSS SECTIONS & DETAILS
3A	CROSS SECTIONS & DETAILS
4	FLOODPLAIN MITIGATION AND TREATMENT SWALE EXHIBIT
5	DRAINAGE AREA MAP

SFWMD and EPC Wetland Impact Summary for the Sunset Preserve Site
John A. Goolsby Rev. 10-24-18

Wetland ID	Size (ac)	Impact Size (ac)	UMAM Score	UMAM Loss	Comments
Lake Stemper-1	1.05	0			
Wetland N-1	6.05	0.12	0.633	0.08	Wetland crossing for driveway
Wetland N-2	1.68	0			
Wetland N-3	0.08	0			
Ditch G	0.05	0.02	NA*	NA*	Ditch crossing for driveway
Ditch F	0.05	0			
Total	8.96	0.14		0.08**	

*Impacts to ditches should not require mitigation, to be removed Pursuant to EPC Noticed Exemption, no mitigation required.
**Proposed mitigation bank purchase to replace the impacts

The subject parcel lies in Flood Zones "AE" & "X", according to Flood Insurance Rate Map, Map No. 12057C0064H (BFE 62.4) for Hillsborough County, Community No. 120112, Hillsborough County, Florida, dated August 28, 2008

David G. Fuxan, State of Florida Professional Engineer, License No. 33133 This item has been digitally signed and sealed by David G. Fuxan, P.E. on 1-3-2019. Printed copies of this document are not considered signed and sealed, and the signature must be verified on any electronic copies.		Engineering Business Certificate of Authorization No. 26548 Fuxan Engineering, Inc. 15018 Mabrine Cove Ln., Odessa, Florida 33556 Phone: 813-244-6194		PAVING, GRADING, AND DRAINAGE PLAN JOB NO: 2018-SP-01 SUNSET PRESERVE DESIGN: FUXAN DRAWN: MIDDLETON PREPARED FOR: ADS Services, Inc. DATE: 8-14-2018 Elevations based on North American Vertical Datum 1988 (NAVD 88) Conversion from NAVD 88 to NGVD 29 = +0.84 Feet FILE: GDP SHEET 1 OF 5 SHEETS	
1-3-19	Lot Lines, Fire Turns, Comments	DM			
10-11-18	Wetland Summary Notes	DM			
9-13-18	Lot Lines, Sidewalk, Comments Mitigation Impact Summary Note	DF			
DATE	DESCRIPTION	BY			
	REVISIONS				

STORM WATER POLLUTION PREVENTION PLAN

Contained on these plans and within the following notes is a Storm Water Pollution Prevention Plan (SWPPP) which has been developed by Fuxan Engineering, Inc. in accordance with the Florida Department of Environmental Protection's (FDEP) "National Pollutant Discharge Elimination System" (NPDES) Generic Permit for Stormwater Discharge from Large and Small Construction Activities.

The following entities are identified as team members of "SWPPP": Fuxan Engineering, Inc., the Developer as identified in the title box of these plans, and the site contractor and his sub-contractors. Each team member has specific responsibilities and obligations. In general, all team members, with regard to their involvement and responsibilities on the project, are to implement all necessary storm water management controls to assure compliance with the NPDES Generic Permit for Stormwater Discharges from Construction Activities, the Southwest Florida Water Management District Permit, the applicable local governing agency (i.e. Hillsborough County, City of Tampa, etc) and the guidelines listed in the SWPPP. The duties and responsibilities of the team members as they pertain to the SWPPP are as follows:

Fuxan Engineering, Inc.

A. Develop SWPPP including, but not limited to, retention/detention ponds, control structures, erosion control methods and locations and stabilization criteria. This design is included within these construction plans and the following notes and instructions.

B. Submit and obtain the necessary design related storm water permits from the Florida Department of Environmental Protection, the Southwest Florida Water Management District and other applicable governmental bodies.

C. Submit to SWFWMD and the operator of the municipal separate storm water system, if applicable, a letter of construction commencement.

Contractor

A. Sign and return to Fuxan a Contractors Certification Form certifying your understanding of and willingness to comply with the Storm Water Pollution Prevention Plan no later than 48 hours prior to commencement of construction. Also, each subcontractor affected by the SWPPP must certify to the contractor that they understand and shall comply with the NPDES permit and SWPPP. A record of these certifications shall be maintained by the contractor on site.

B. Submit notice of intent to the FDEP. Prepare Dewatering Plan. During construction, assure compliance with the designed Storm Water Pollution Prevention Plans prepared by Fuxan Engineering, Inc. and the NPDES Generic Permit for Storm Water Discharges from Large and Small Construction Activities.

C. Maintain a copy of the construction plans, which include the Storm Water Pollution Prevention Plan, the NOI, and all inspection reports and certifications on site.

D. Undertake all reasonable Best Management Practices (BMPs) to assure that silted or otherwise polluted storm water is not allowed to discharge from the site during all phases of construction. Stabilization BMPs that may be used include: temporary or permanent seeding, mulching, geotextiles, sodding, vegetative buffer protection of trees and preservation of mature vegetation. Structural erosion and sediment control BMPs that may be used include: straw bale dikes, silt fences, earth dikes, brush barriers, drainage swales, check dams, subsurface drain, pipe slope drain, level spreaders, storm drain inlet protection, outlet protection, sediment traps, and temporary sediment basins. Detention ponds may also be used as temporary sediment basins. Additional BMPs that may need to be implemented include: providing protected storage areas for chemicals, paints, solvents, fertilizers, and other potentially toxic materials. Providing waste receptacles at convenient locations and providing regular collection of wastes, including building material wastes. Minimizing off-site tracking of sediments. Making adequate preparations, including training and equipment to contain spills of oil and hazardous materials. Complying with applicable state or local waste disposal, sanitary sewer, or septic system regulations and the use of appropriate pollution prevention measures for allowable non-storm water components of discharge.

E. Notify Fuxan Engineering, Inc. and the developer in writing of any non-storm water pollution sources which are being stored, or otherwise used during the construction of the project, i.e., fertilizers, fuels, pesticides, other chemicals. This notification should be accompanied with the contractor's design and methods to prevent pollution run-off from these sources.

F. Develop a maintenance and inspection plan which includes, but is not limited to the following:

- A. The specific areas to be inspected and maintained that includes all the disturbed areas and material storage areas of the site.
B. The erosion and sediment controls identified in the SWPPP to be maintained and inspected and those additional controls that the contractor deems necessary.
C. Maintenance procedures.
D. The procedure to follow if additional work is required or whom to call.
E. Inspections and maintenance forms.
F. The personnel assigned to each task.

The following shall be inspected a minimum of once a week or within 24 hours after 0.50 inches of rainfall:

- Stabilization measures (once a month if fully stabilized).
Structural controls.
Discharge points.
Construction entrances and exits.
Areas used for storage of exposed materials.

An inspection form shall be completed for each inspection. Any permit later than 7 days after the inspection occurred. If revisions to the SWPPP are needed, a report form for changes in the SWPPP shall be completed and a copy sent to Fuxan Engineering, Inc. The original shall be kept on-site as documentation of the change. If the inspection passes, a certification that the facility is in compliance with the SWPPP and the NPDES permit must be signed by a duly authorized representative of the principal executive official of the operator of the SWPPP with one of the following qualifications:

- 1. Has successfully completed the Florida Stormwater, Erosion and Sediment Control Inspector Training Program.
2. Successfully completed a similar training program.
3. Has enough practical on the job training to be qualified to perform the inspections.
Retain inspection reports and certifications for at least three years.

Site stabilization measures shall be initiated as soon as practical but in no case more than 7 days, in portions of the site where construction activities have temporarily or permanently ceased.

H. Releases in Excess of Reportable Quantities.

- 1. The discharge of hazardous substances or oil in the stormwater discharge(s) from a facility or activity shall be prevented or minimized in accordance with the applicable stormwater pollution prevention plan for the facility or activity. This permit does not relieve the operator of the reporting requirements of 40 CFR part 117 and 40 CFR part 302. Where a release containing a hazardous substance in an amount equal to or in excess of a reporting quantity established under either 40 CFR 117 or 40 CFR 302, occurs during a 24 hour period:
a. The operator is required to notify the State Warning Point (800-210-0510 or 850-413-9911) as soon as he or she has knowledge of the discharge;
b. The operator shall submit within 14 calendar days of knowledge of the release a written description of: the release (including the type and estimate of the amount of material released), the date that such release occurred, the circumstances leading to the release, and remedial steps to be taken, to the Florida Department of Environmental Protection, NPDES Stormwater Section, Mail Station 2500, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400; and
c. The stormwater pollution prevention plan required under Part V of this permit must be modified within 14 calendar days of knowledge of the release to: provide a description of the release, the circumstances leading to the release, and the date of the release. In addition, the plan must be reviewed to identify measures to prevent the recurrence of such releases and to respond to such releases, and the plan must be modified where appropriate.
2. This permit does not authorize the discharge of hazardous substances or oil resulting from an on-site spill.

Developer

- A. Notify Fuxan Engineering, Inc. of your intent to commence construction.
B. Sign a Certification of Storm Water Pollution Prevention Plan and return to Fuxan Engineering, Inc.

PRE-DEVELOPED SITE INFORMATION:

- 1. Total site acreage: 16.19
2. Land use: VACANT
3. Vegetation: OAKS
4. Receiving waters or municipal separate storm water system: CYPRESS CREEK
5. 2 Year/24 Hour rainfall depth: 4.3"
6. Soil types:
7. Endangered species: NONE

PROJECT INFORMATION:

- 1. Project type: OFFICE
2. Anticipated construction sequence is as follows:
1. Complete erosion control installation
2. Clearing and grubbing
3. Earthwork activities
4. Storm water system construction
5. Utility construction
6. Base and pavement construction
7. Final stabilization
The BMPs listed in Part D of the Contractor section of the SWPPP shall be considered during all phases of construction.
3. Anticipated start date: JANUARY 2019
4. Anticipated completion date: JANUARY 2020
5. Total acres disturbed: 1.0
6. Pre-developed "C" Factor: 0.20
7. Post-developed "C" Factor: 0.25
8. The storm water management system, upon completion of construction and appropriate certification and as-built submittals will be operated and maintained by PROPERTY ASSOCIATION
9. The potential source of pollution from this project is on-site development and construction activity.

OWNERS INSTRUCTIONS FOR MAINTENANCE AND INSPECTION OF STORMWATER FACILITIES

The entire stormwater system should be inspected on at least a semi-annual basis. This should include a visual inspection of the pond, pond banks, bleed-down orifices, other control structures, and discharge pipes. These should be kept free of debris and cleaned on a frequency as required to keep them functional, as designed. Mowing/clearing around the structures may be required to prevent vegetation from clogging them.

Wetland plants, if intentionally installed, should be monitored and maintained as required on the approved construction plans. Areas of littoral shelving, which are required to be vegetated but not intentionally planted, should not be cleared of the wetland plants. These areas should have as high a plant coverage as possible, for maximum water filtration.

Sediment sumps, if designed and installed, should have sediment removed as necessary to allow them to efficiently remove suspended particles. They should be re-tied to the original design specifications, if silted in.

For percolation treatment ponds/swales, the owner of the facility shall inspect the pond bottom periodically after heavy rainfall events to check for persistent ponding or pooling of water. All large debris shall be removed and disposed of elsewhere. If prolonged ponding persists, i.e., in excess of 12 hours, the owner shall rake or scarify the surface. If required, the soil in the area of ponding shall be removed and replaced with clean sandy, non-cohesive soils.

Please check the construction plans to see if written reports on monitoring or plant survival rates are required to be sent to any reviewing agencies. Written notes should always be kept which describe maintenance activities undertaken during each inspection.

Specific conditions of all permits may require additional maintenance activities above and beyond those outlined above. Please be aware of all permit conditions as issued by regulatory agencies to ensure permit compliance.

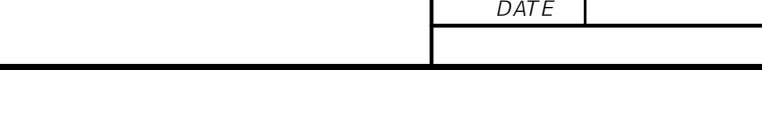
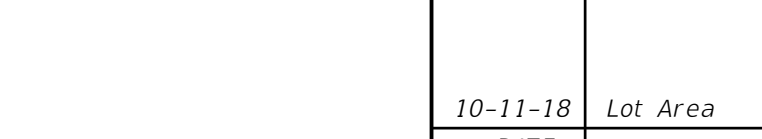
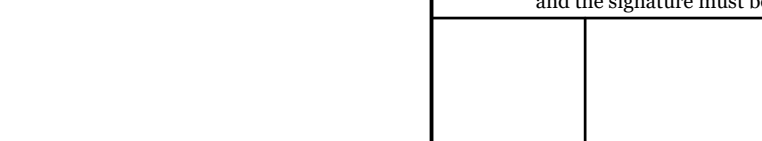
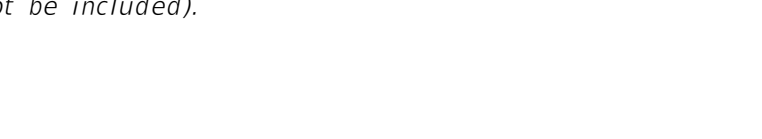
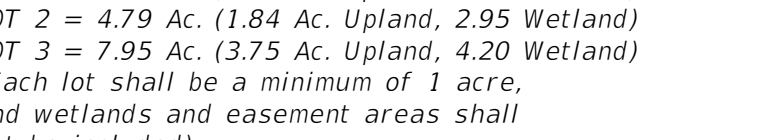
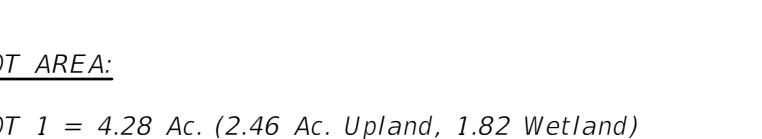
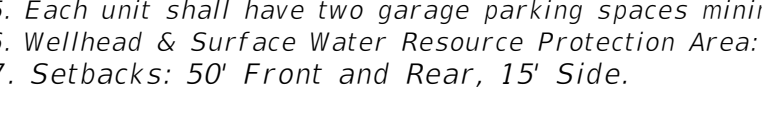
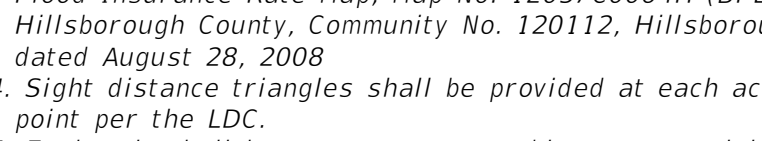
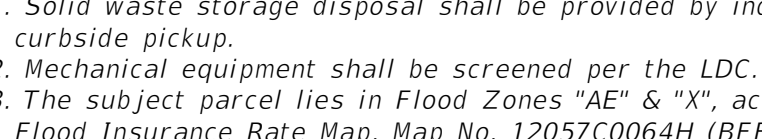
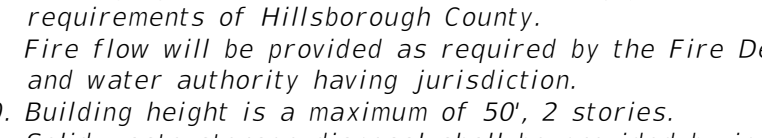
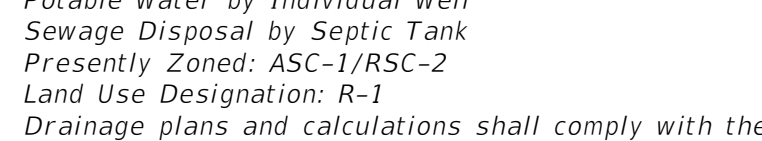
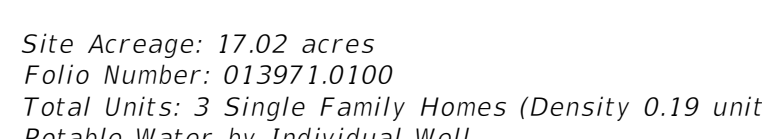
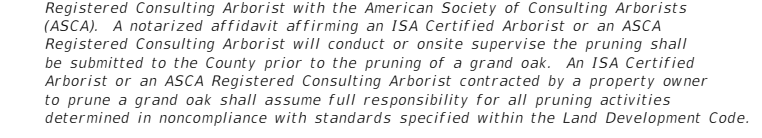
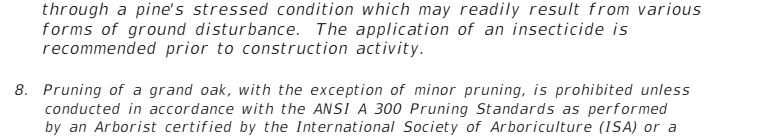
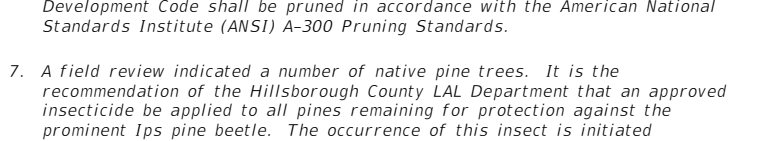
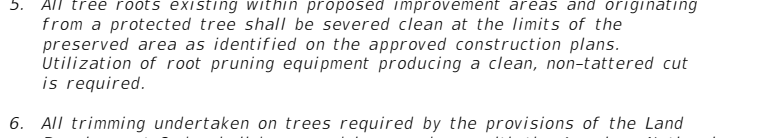
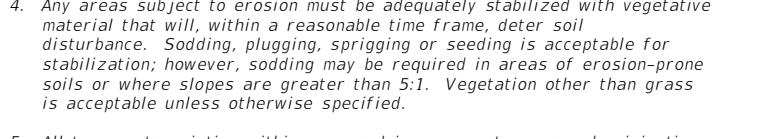
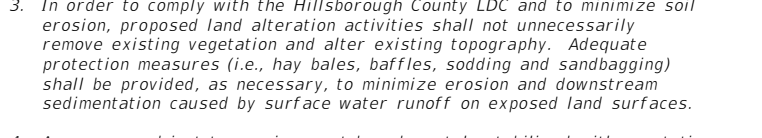
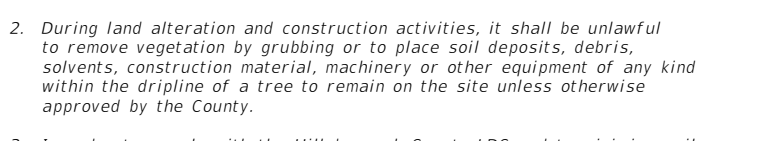
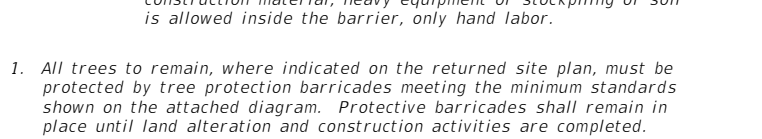
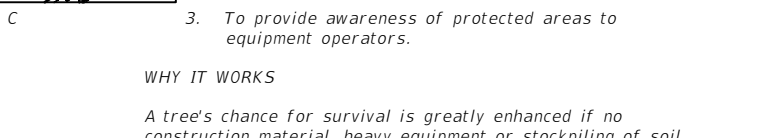
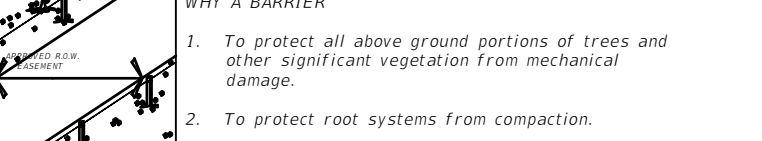
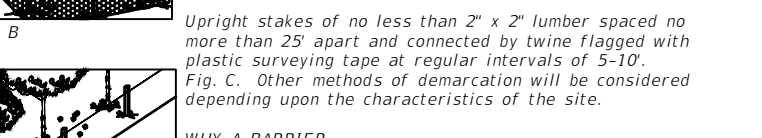
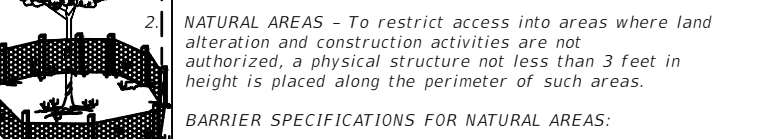
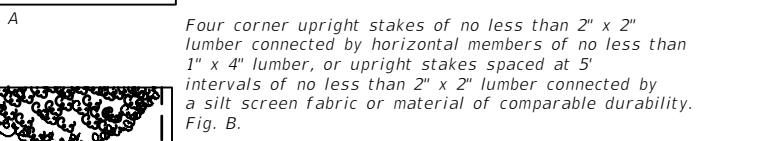
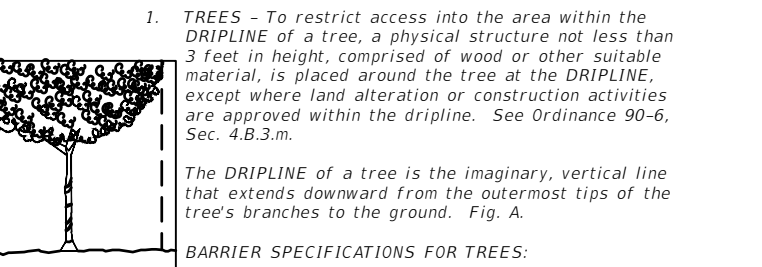
GENERAL EROSION AND TURBIDITY CONTROL NOTES

- 1. The Site Subcontractor shall be responsible for installation and maintenance of all erosion and turbidity controls and the quality and quantity of offsite or wetland discharges.
2. Prior to construction, the Site Subcontractor is responsible for having his dewatering plan and turbidity control plan approved by the applicable reviewing agencies. Refer to the project's permit approvals and permit conditions for agencies requiring such review and approval. Questions concerning appropriate techniques should be addressed to those agencies and/or discussed with the project engineer and owner.
3. The appropriate turbidity and erosion control methodologies selected by the Site Subcontractor for this project should be made following assessment of the plans and project site specific factors and after consultations as needed with the project engineer and appropriate agencies. The Site Subcontractor shall be responsible for obtaining any and all necessary permits for such activity; several factors to consider are listed below:
A. Clay content in excavated materials and/or permeabilities rates
B. Depth of cut to ponds, trenches, or utility lines
C. Ambient ground water levels
D. Actual rainfall amounts and time of year relative to normal rainy season
E. Proximity to wetlands, water bodies or offsite properties
F. "Class" designation of receiving water bodies (i.e., Outstanding Florida Waters, shellfish harvesting areas, etc.)
G. Density, type, and proximity of upland vegetation to be retained during construction (for use as possible filtration areas)
H. Fill height relative to natural grade and length and steepness of the proposed slopes
I. Existing topography and directions of surface flow
J. Type of equipment used
K. Project type
L. Duration of construction activities
M. Separation distance of onsite ponds
N. Ambient quality of surface and groundwater
O. Temporary stockpile locations and heights
4. At the onset of construction, the Site Subcontractor, as the party responsible for implementation of the erosion and sediment control plan, shall assess the above described conditions and factors with respect to relative effectiveness and select the appropriate methods of protection. A fairly extensive list of techniques are presented below but it must be stressed that any or all of the following may be necessary to maintain water quality and quantity standards. The construction sequencing should be thought out in advance of initiation to provide adequate protection of water quality.
5. Discharges which exceed 29 NTU's over the background levels are in violation of state water quality standards. Discharges of water quantities which affect offsite properties or may damage wetlands are also prohibited by regulating agencies.
6. The erosion and turbidity control measures shown hereon are the minimum required for agency approval. Additional control and measures may be required due to the Site Subcontractor's construction sequence & unforeseen weather conditions. Any additional measures deemed necessary by the Site Subcontractor shall be included in the lump sum bid with no extras for materials and labor allowed.
7. Hay bales or silt screens shall be installed prior to land clearing to protect water quality and to identify areas to be protected from clearing activities and maintained for the duration of the project until all soil is stabilized.
8. Fixating turbidity barriers shall be in place in flowing systems or in open water lake edges prior to initiation of earthwork and maintained for the duration of the project until all soil is stabilized.
9. No clay material shall be left exposed in any stormwater storage facility. If clay or sand/clays are encountered during stormwater storage excavation, the Site Subcontractor shall notify the Engineer immediately before proceeding with further excavation. If the Engineer of Record has determined that such soils are non-confining and must be excavated to meet permit and design conditions, excavation may proceed after obtaining written authorization from the appropriate governing agency. If said soils are left exposed at the permitted and designed depth, the Site Subcontractor shall over-excavate the pond's bottom and side slopes by a minimum of twelve (12") inches and backfill with clean sands to help prevent suspension of fine particles in the water column.
10. 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 effective and continuous control of erosion and water pollution throughout the life of the construction phase.
11. The type of erosion control barriers used shall be governed by the nature of the construction operation and soil type that will be exposed. Silted and clayey material may require solid sediment barriers to prevent turbid water discharge, while sandy material may need only silt screens or hay bales to prevent erosion. Floating turbidity curtains should generally 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.
12. Where pumps are to be used to remove turbid waters from construction areas, the water shall be treated prior to discharge to the wetlands. Treatment methods include, for example, turbid water being pumped into grassed swales or appropriate upland vegetated areas (other than upland preservation areas and wetland buffers), sediment basins, or confined by an appropriate enclosure such as turbidity barriers or low berms, and kept confined until turbidity levels meet State Water Quality Standards.
13. The Permittee shall schedule his operations such that the area of unprotected erodible earth exposed at any one time is not larger than the minimum area necessary for efficient construction operation, and the duration of exposed, unprotected construction to the elements shall be as short as practicable. Clearing and grubbing shall be so scheduled and performed such that grading operations can follow immediately thereafter. Grading operations shall be so scheduled and performed that permanent erosion control features can follow immediately thereafter if conditions on the project permit.
14. Water derived from various dewatering methods should be passed through sufficiently wide areas of existing upland vegetation to filter out excess turbidity. If this is not sufficient, the water shall be retained in previously constructed permanent stormwater ponds or else retained in temporary sedimentation basins until the clarity is suitable to allow for its discharge. Plugging the outfalls from completed stormwater ponds may be needed to avoid discharge. However, such situations should be monitored closely to preclude berm failure if water levels rise too high.
15. Water can be transported around the site by the use of internal swales or by pumps and pipes.
16. Sheet flow of newly filled or scraped areas may be controlled or contained by the use of brush barriers, diversion swales, interceptor ditches or low berms. Flow should be directed toward areas where sediments can sufficiently settle out.
17. Exposed soils shall be stabilized as soon as possible, especially slopes leading to wetlands. Stabilization methods include solid soil, seeding and mulching or hydromulching to provide a temporary or permanent grass cover mulch blankets, filter fabrics, etc. can be employed to provide vegetative cover on slopes.
18. Energy dissipaters (such as rip rap, a gravel bed, hay bales, etc.) shall be installed at the discharge point of pipes or swales if scouring is observed.
19. Attempt to install roadway curb and gutters as soon as possible to reduce the surface area for erosion to occur.
20. Implement storm drain inlet protection (hay bales or gravel) to limit sedimentation within the stormwater system. Perform inspections and periodic cleaning of sediments which wash out into the streets until all soil is stabilized.
21. Water discharge velocities from impounded areas and temporary sedimentation basins shall be restricted to avoid scouring in receiving areas.
22. If water clarity does not reduce to state standards rapidly enough in holding ponds, it may be possible to use chemical agents such as alum to flocculate or coagulate the sediment particles.
23. Hay bales, silt screens, or gravel beds can be added around the pipe or swale discharge points to help clarify discharges. Spreader swales may help dissipate cloudy water prior to contact with wetlands.
24. All fuel storage areas or other hazardous storage areas shall conform to accepted state or federal criteria for such containment areas.
25. Vehicle or equipment washdown areas will be sufficiently removed from wetlands or off-site areas.
26. Fugitive dust controls (primarily by using water spray trucks) shall be employed as needed to control windborn emissions.
27. If the above controls remain ineffective in precluding release of turbid water, especially during pond or utility line dewatering, then the contractor may be compelled to use a vertical dewatering system such as well points or sock drains to withdraw groundwater which may already be clear enough to allow for direct discharge to wetlands.
28. Ongoing inspections and periodic maintenance by the Site Subcontractor shall occur throughout construction as necessary to insure the above methods are working suitably. This may be needed daily, if conditions so warrant. Site Subcontractors are encouraged to obtain and thoroughly review The Florida Development Manual: A Guide to Sound Land and Water Management, which was developed by the State of Florida Department of Environmental Protection in 1988. This provides fairly in-depth discussions of recommended techniques and also provides specific design and technical standards. A copy of this document is available for review at Fuxan Engineering, Inc.
29. The contractor will perform daily inspections of all on-site wetlands within the construction area to ensure that water levels within those wetlands are not excessively impounded prior to the time when the permitted control structure or outfall is built. Water levels significantly above normal should be corrected a frequency that prevents a change in the vegetative character or health of any wetlands.

HILLSBOROUGH COUNTY PLANNING AND GROWTH MANAGEMENT DEPARTMENT PROTECTIVE BARRIERS REQUIREMENT AND SPECIFICATIONS

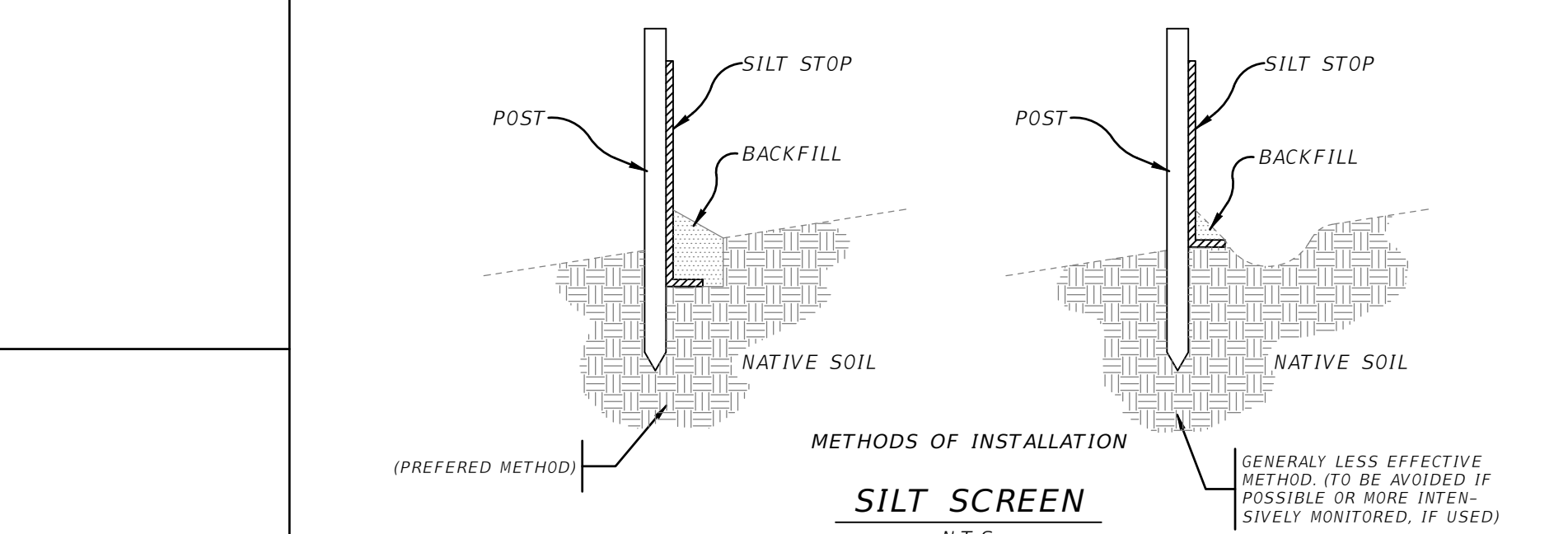
PROTECTIVE BARRIERS are used during land alteration and construction activities to protect trees and natural areas to be retained on a site.

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 shall 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 barrier's area.

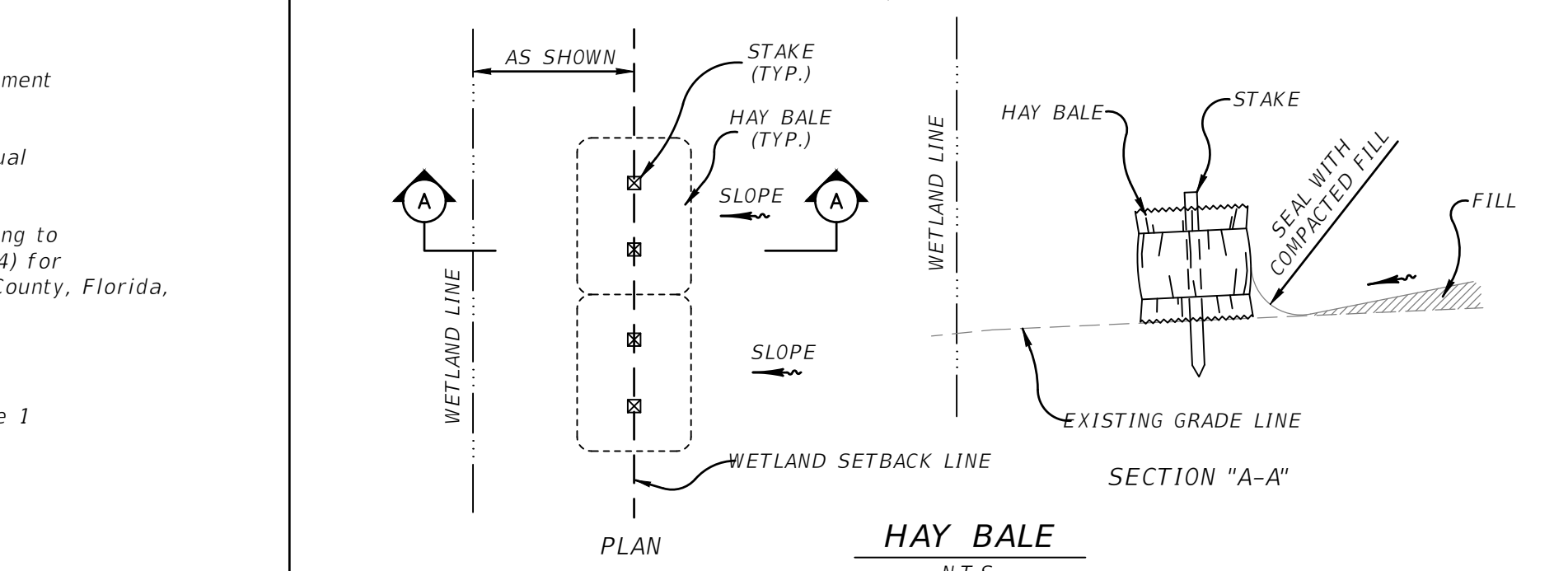


STREET & DRAINAGE CONSTRUCTION NOTES:

- 1. Prior to construction, the Contractor shall obtain from the Engineer or Owner a copy of which permit related to this project. It is the contractor's responsibility to assure that all construction activities are in compliance with the conditions of all permits and approvals. Contractor is also responsible for having his dewatering plan approved by SWFWMD.
2. All construction and workmanship are to be in accordance with Hillsborough County Land Development Code, Hillsborough County Site Development Regulations, and DOT Specifications, latest editions.
3. Grass and mulch, or solid sod, all areas in existing rights-of-way disturbed by construction.
4. Contractor is to coordinate all work within, but not limited to, adjacent rights-of-way with utility companies in order to prevent damage to utility lines and making of adjustments to same, if required.
5. Prior to curb inlet construction, the Engineer shall lay out the back of the curb in the vicinity of the respective inlet for alignment and grade, and the Contractor shall construct the inlet allowing for an 18" concrete throat between the back of the curb and the face of the inlet. The top of the curb shall be constructed to an elevation of 3/8" above the top of curb (these dimensions apply to the concrete valley gutter site section only). Any inlets constructed incorrectly by deviating from this sequence of inlet construction shall be the sole responsibility of the Contractor and no additional payment shall be made or allowed for removing and/or correcting the inlets.
6. Fill obtained through excavation of detention pond shall be placed on site and adjacent land in accordance with the Drainage and Grading Plan as directed by the Engineer.
7. Sod/Seed & Mulch shall be placed in accordance with applicable City/County standards as well as in accordance with standard and specific conditions in the SWFWMD permit, if applicable. At a minimum this shall include sodding of all pond embankments of a slope 5:1 or greater to the NW line, as well as seeding and mulching of the balance of the pond tracts including pond berms, excluding the area below NW, sodding at a minimum of 2' from the back of curb, and seeding and mulching of any project area with a slope of 5:1 or steeper.
8. Building downspouts to be directed to the on-site storm drainage system.
9. Future expansion areas, if disturbed, to be grassed and mulched or sodded to prevent erosion to existing pavement surfaces.
10. Site clearing shall be performed per the approved construction plans and in accordance with Hillsborough County LAL Ordinance. Installation and maintenance of the required barricading and erosion control shall be the responsibility of the site development Contractor unless otherwise designated.
11. Prior to beginning construction, Contractor shall expose all existing utility inverts to which a tie-in is proposed and have Engineer verify the elevation and adequacy of these inverts.
12. All subsurface construction shall comply with the "Trench Safety Act." The Contractor shall insure that the method of trench protection and construction is in compliance with the Occupational Safety and Health Administration (OSHA) regulations.
13. All erosion control installation and installation coordination shall be the responsibility of the Contractor. Be advised that the construction approval and maintenance of the erosion control shall be the sole responsibility of the Site Contractor.



NOTE: THE EROSION BARRIER, AS SHOWN, IS NOT TO BE CONSTRUED TO MEAN THAT IT IS ALL THAT MAY BE REQUIRED. THE CONTRACTOR IS TO TAKE WHATEVER MEASURES NECESSARY TO CONTROL EROSION THROUGHOUT THE PROJECT. EROSION CONTROL WILL BE INSTALLED PRIOR TO LAND CLEARING AND SHALL REMAIN IN PLACE UNTIL THE AREA IS STABILIZED. (SEE OTHER EROSION AND TURBIDITY NOTES ON THE GENERAL NOTES SHEET OF THIS PLAN.)



EROSION CONTROL DETAILS EITHER METHOD A OR A COMINATION OF BOTH IS ACCEPTABLE

NOTES

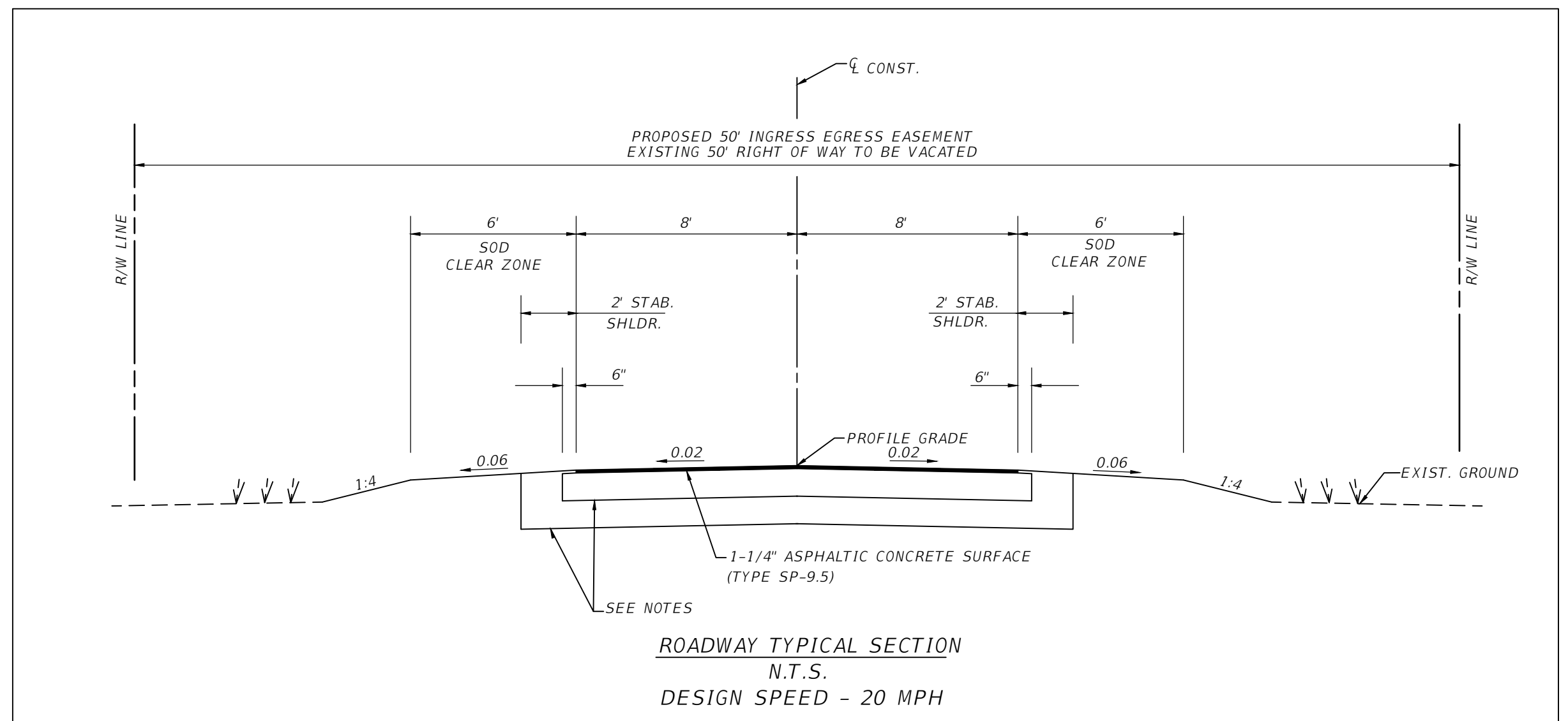
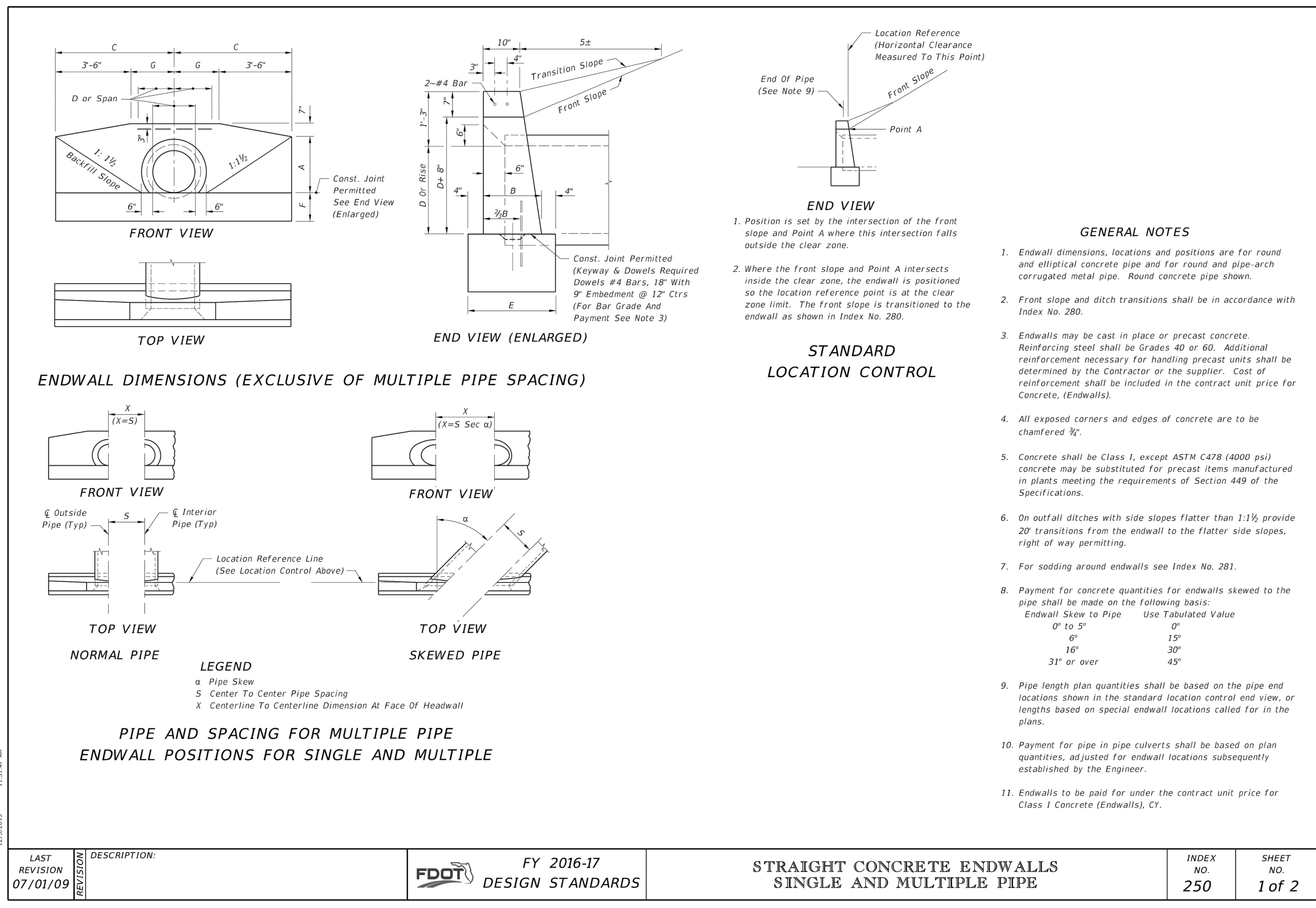
- 1. Site Acreage: 17.02 acres
2. Folio Number: 013971.0100
3. Total Units: 3 Single Family Homes (Density 0.19 units per acre)
4. Potable Water by Individual Well
5. Sewage Disposal by Septic Tank
6. Presently Zoned: ASC-1/RSC-2
7. Land Use Designation: R-1
8. Drainage plans and calculations shall comply with the requirements of Hillsborough County.
9. Fire flow will be provided as required by the Fire Department and water authority having jurisdiction.
10. Building height is a maximum of 50', 2 stories.
11. Solid waste storage disposal shall be provided by individual curbside pickup.
12. Mechanical equipment shall be screened per the LDC.
13. The subject parcel lies in Flood Zones "AE" & "X", according to Flood Insurance Rate Map, Map No. 12057C0064H (BFE 62.4) for Hillsborough County, Community No. 120112, Hillsborough County, Florida, dated August 28, 2008
14. Sight distance triangles shall be provided at each access point per the LDC.
15. Each unit shall have two garage parking spaces minimum
16. Wellhead & Surface Water Resource Protection Area: Zone 1
17. Setbacks: 50' Front and Rear, 15' Side.

LOT AREA:

- LOT 1 = 4.28 Ac. (2.46 Ac. Upland, 1.82 Wetland)
LOT 2 = 4.79 Ac. (1.84 Ac. Upland, 2.95 Wetland)
LOT 3 = 7.95 Ac. (3.75 Ac. Upland, 4.20 Wetland)
(Each lot shall be a minimum of 1 acre, and wetlands and easement areas shall not be included).

Table with columns for DATE, DESCRIPTION, and REVISIONS. It contains one entry for 10-11-18 regarding Lot Area.

Project information block including David G. Fuxan, State of Florida Professional Engineer, License No. 23133, Engineering Business Certificate of Authorization No. 26548, Fuxan Engineering, Inc., 15018 Madison Cove Ln., Odessa, Florida 33556, Phone: 813-244-6194, and project details for SUNSET PRESERVE, ADS Services, Inc., SHEET 2 OF 5 SHEETS.



1. OPTIONAL BASE GROUP 1 WITH 10" TYPE "B" STABILIZATION LBR 40.

2. OPTIONAL BASE GROUP 6 WITH COMPACTED SUBGRADE.

3. ALL DIMENSIONS SHOWN ARE MINIMUM.

4. SEE APPROPRIATE SECTION OF TECHNICAL MANUAL FOR DESIGN PARAMETERS.

5. CROSS SLOPE OF PAVEMENT MAY BE CONTINUOUS IN ONE DIRECTION FOR THE FULL WIDTH OF ROADWAY.

6. WHERE REQUIRED BY THE HILLSBOROUGH COUNTY LAND DEVELOPMENT CODE, SIDEWALKS ARE TO BE PLACED WITHIN OR OUTSIDE OF THE PROPOSED RIGHT-OF-WAY WITHIN AN EASEMENT APPROVED BY THE COUNTY.

REVISION DATE:	TRANSPORTATION TECHNICAL MANUAL	LOW VOLUME PRIVATE ROADS (MINOR SUBDIVISIONS WITH 10 LOTS OR LESS) TYPICAL SECTION	DRAWING NO. TS-10
10/17			SHEET NO. 1 OF 1

LAST REVISION	DESCRIPTION:	FDOT	FY 2016-17 DESIGN STANDARDS	INDEX NO.	SHEET NO.
07/01/09				250	1 of 2

DIMENSIONS AND QUANTITIES

D	X	A	B	C	E	F	G	H	5 1/2" CONCRETE SLAB (CY) ▽				SODDING (SY)								
									Single Pipe	Double Pipe	Triple Pipe	Quad Pipe	Single Pipe	Double Pipe	Triple Pipe	Quad Pipe					
15"	2'-7"	1.92	2.18	4.10	2.06	5'	1.22	2.9	4.63	7.21	9.79	12.37	1.19	0.38	0.58	0.77	0.96	21	24	27	30
18"	2'-10"	1.97	2.74	4.71	2.56	6'	1.41	3.4	4.92	7.75	10.58	13.42	1.21	0.44	0.65	0.87	1.09	22	25	28	31
24"	3'-5"	2.06	3.85	5.91	3.56	7'	1.73	3.4	5.50	8.92	12.33	15.75	1.25	0.54	0.83	1.12	1.42	24	28	32	35
30"	4'-2"	2.15	4.95	7.10	4.56	8'	2.00	3.4	6.08	10.33	14.58	18.83	1.29	0.66	1.09	1.50	1.91	26	31	35	40
36"	5'-1"	2.25	6.08	8.33	5.56	9'	2.24	3.4	6.67	11.75	16.83	21.92	1.33	0.81	1.38	1.95	2.51	28	34	39	45
42"	6'-0"	2.34	7.21	9.55	6.56	10'	2.45	3.4	7.29	13.25	19.25	25.25	1.38	0.97	1.70	2.45	3.19	30	37	43	50
48"	6'-9"	2.43	8.33	10.76	7.56	11'	2.65	3.4	7.83	14.58	21.33	28.08	1.42	1.13	2.04	2.93	3.84	32	39	47	54
54"	7'-8"	2.52	9.44	11.96	8.56	12'	2.83	3.4	8.42	16.08	23.75	31.42	1.46	1.31	2.44	3.58	4.72	34	42	51	59
60"	8'-6"	2.62	10.56	13.18	9.56	14'	3.00	4.4	9.00	17.50	26.00	34.50	1.50	1.51	2.89	4.28	5.68	36	45	55	64
66"	9'-2"	2.71	11.68	14.39	10.56	15'	3.18	4.4	9.58	18.75	27.92	37.08	1.54	1.68	3.25	4.84	6.43	38	48	58	68
72"	10'-0"	2.80	12.80	15.60	11.56	16'	3.30	4.4	10.16	20.16	30.16	40.16	1.58	1.89	3.74	5.59	7.45	40	51	62	73
15"	2'-7"	2.27	4.09	6.36	4.03	8'	1.22	4.0	4.63	7.21	9.79	12.37	1.19	0.57	0.87	1.15	1.44	23	26	29	32
18"	2'-10"	2.36	5.12	7.46	5.03	9'	1.41	4.0	4.92	7.75	10.58	13.42	1.21	0.66	0.99	1.31	1.65	25	28	31	35
24"	3'-5"	2.53	7.18	9.71	7.03	11'	1.73	4.0	5.50	8.92	12.33	15.75	1.25	0.85	1.30	1.75	2.20	28	32	36	40
30"	4'-2"	2.70	9.25	11.95	9.03	13'	2.00	4.0	6.08	10.33	14.58	18.83	1.29	1.10	1.74	2.39	3.05	31	36	41	46
36"	5'-1"	2.87	11.31	14.18	11.03	15'	2.24	4.0	6.67	11.75	16.83	21.92	1.33	1.32	2.21	3.08	3.96	34	40	46	52
42"	6'-0"	3.05	13.37	16.42	13.03	17'	2.45	4.0	7.29	13.25	19.25	25.25	1.38	1.58	2.76	3.91	5.09	38	44	51	58
48"	6'-9"	3.22	15.43	18.65	15.03	19'	2.65	4.0	7.83	14.58	21.33	28.08	1.42	1.85	3.30	4.73	6.17	41	48	56	63
54"	7'-8"	3.39	17.49	20.88	17.03	21'	2.83	4.0	8.42	16.08	23.75	31.42	1.46	2.14	3.95	5.77	7.58	44	52	61	69
60"	8'-6"	3.56	19.55	23.11	19.03	23'	3.00	4.0	9.00	17.50	26.00	34.50	1.50	2.45	4.66	6.87	9.07	47	56	66	75
66"	9'-2"	3.73	21.62	25.35	21.03	25'	3.18	4.0	9.58	18.75	27.92	37.08	1.54	2.88	5.84	8.18	10.84	49	59	69	80
72"	10'-0"	3.91	23.68	27.59	23.03	27'	3.30	4.0	10.16	20.16	30.16	40.16	1.58	3.54	6.61	9.87	13.13	52	63	74	85

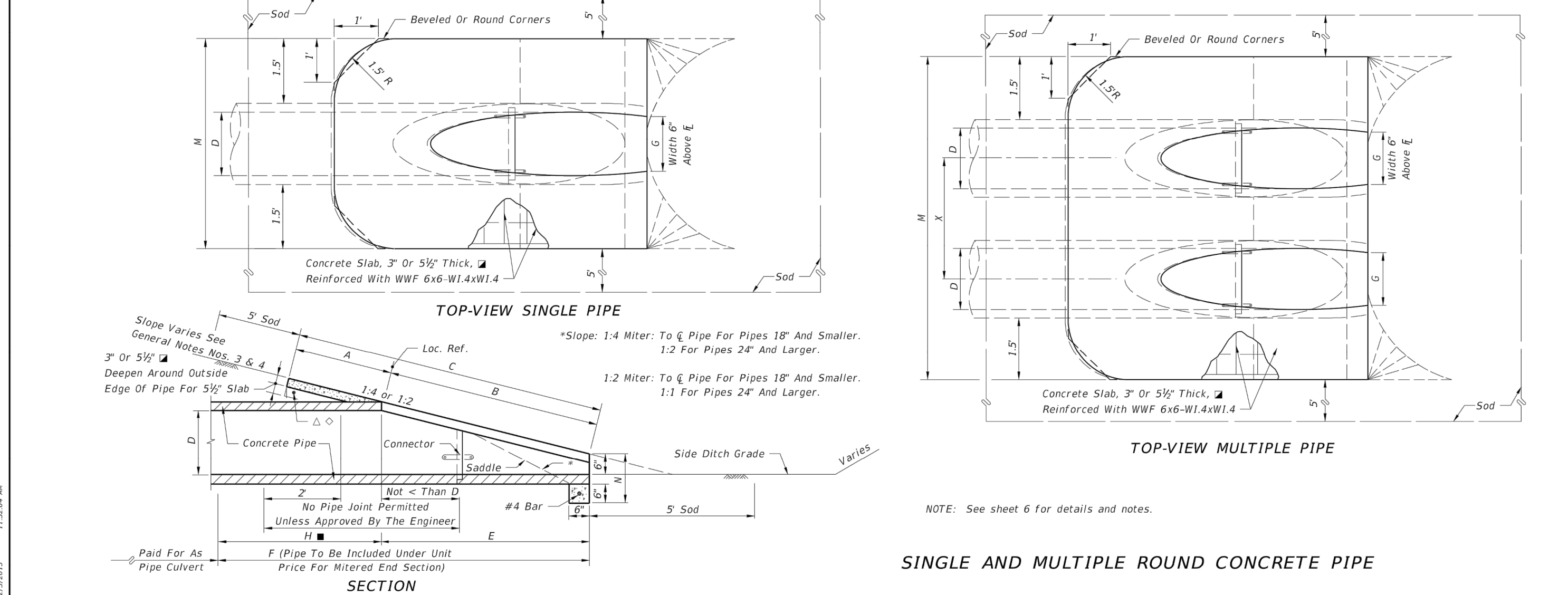
▽ See General Note No. 5. See Sheet 5 For 3" Slab Quantities.

▴ Values shown for estimating pipe quantities and are for information only.

▴ 6.42' ▴ 6.25' Dimensions permitted to allow use of 8' standard pipe lengths.

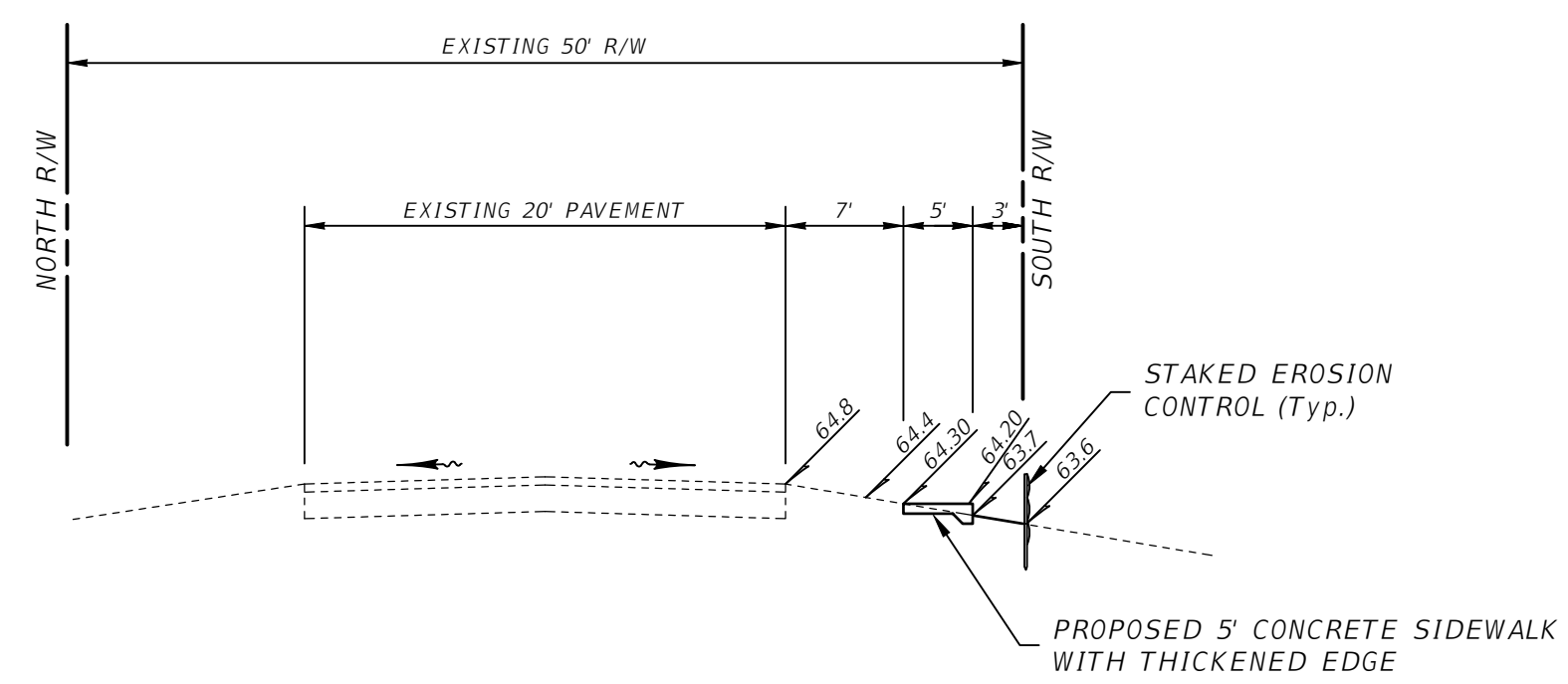
◊ 10.40' ◊ 10.10' Dimensions permitted to allow use of 12' standard pipe lengths.

▴ ◊ Concrete slab shall be deepened to form bridge across crown of pipe. See section below.



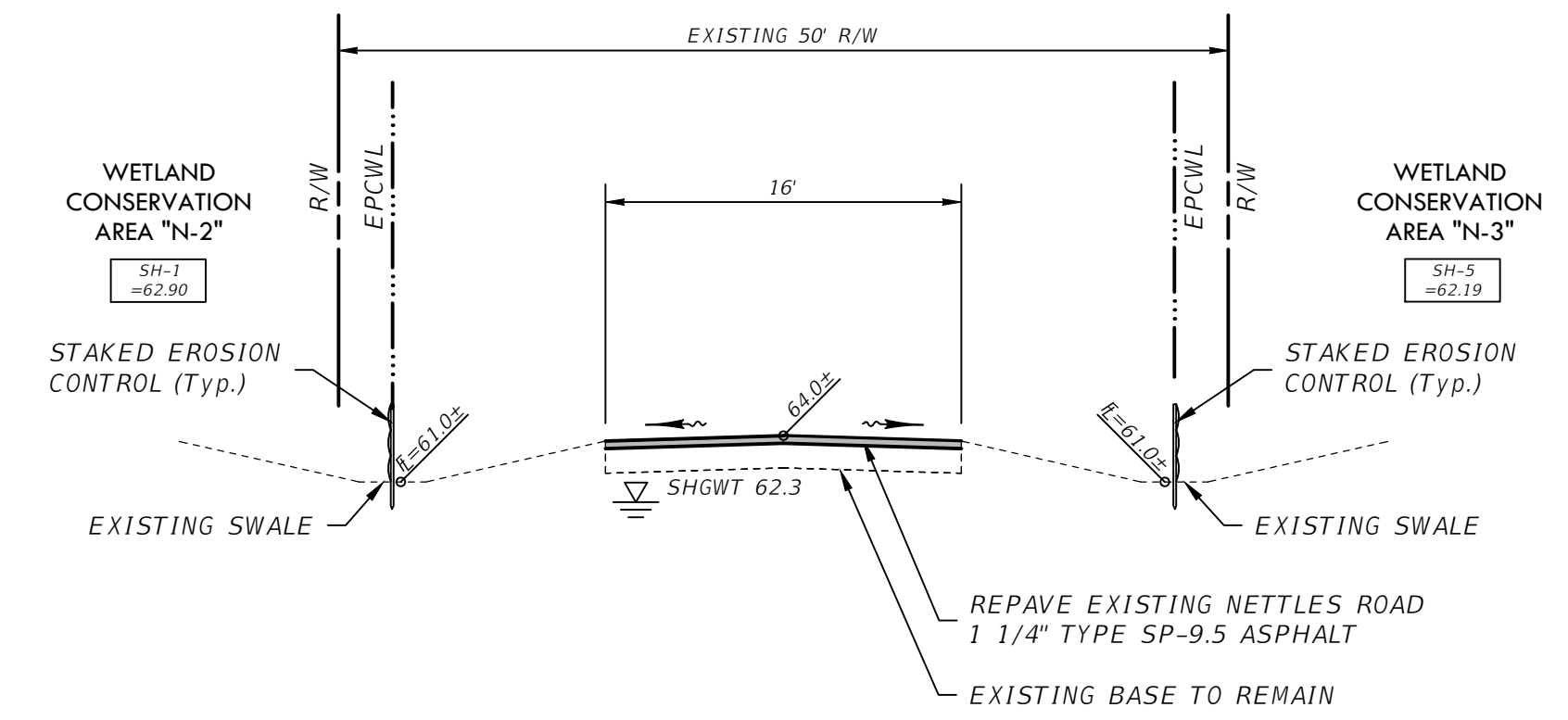
LAST REVISION	DESCRIPTION:	FDOT	FY 2016-17 DESIGN STANDARDS	INDEX NO.	SHEET NO.
07/01/02				272	1 of 6

David G. Fuxan, State of Florida Professional Engineer, Licence No. 23133 This item has been digitally signed and sealed by David G. Fuxan, P.E. on 1-3-2019. Printed copies of this document are not considered signed and sealed, and the signature must be verified on any electronic copies.	Engineering Business Certificate of Authorization No.: 26548	CROSS SECTIONS & DETAILS
Fuxan Engineering, Inc. 15018 Maurine Cove Ln., Odessa, Florida 33556 Phone: 813-244-6194	JOB NO. 2018-SP-01	SUNSET PRESERVE
DESIGN FUXAN	DRAWN MIDDLETON	PREPARED FOR: ADS Services, Inc.
DATE 10-11-18	DATE 8-14-2018	Elevations based on North American Vertical Datum 1988 (NAVD 88) Conversion from NAVD 88 to NGVD 29 = +0.84 Feet
FILE 10-11-18	FILE DD	SHEET 3 OF 5 SHEETS



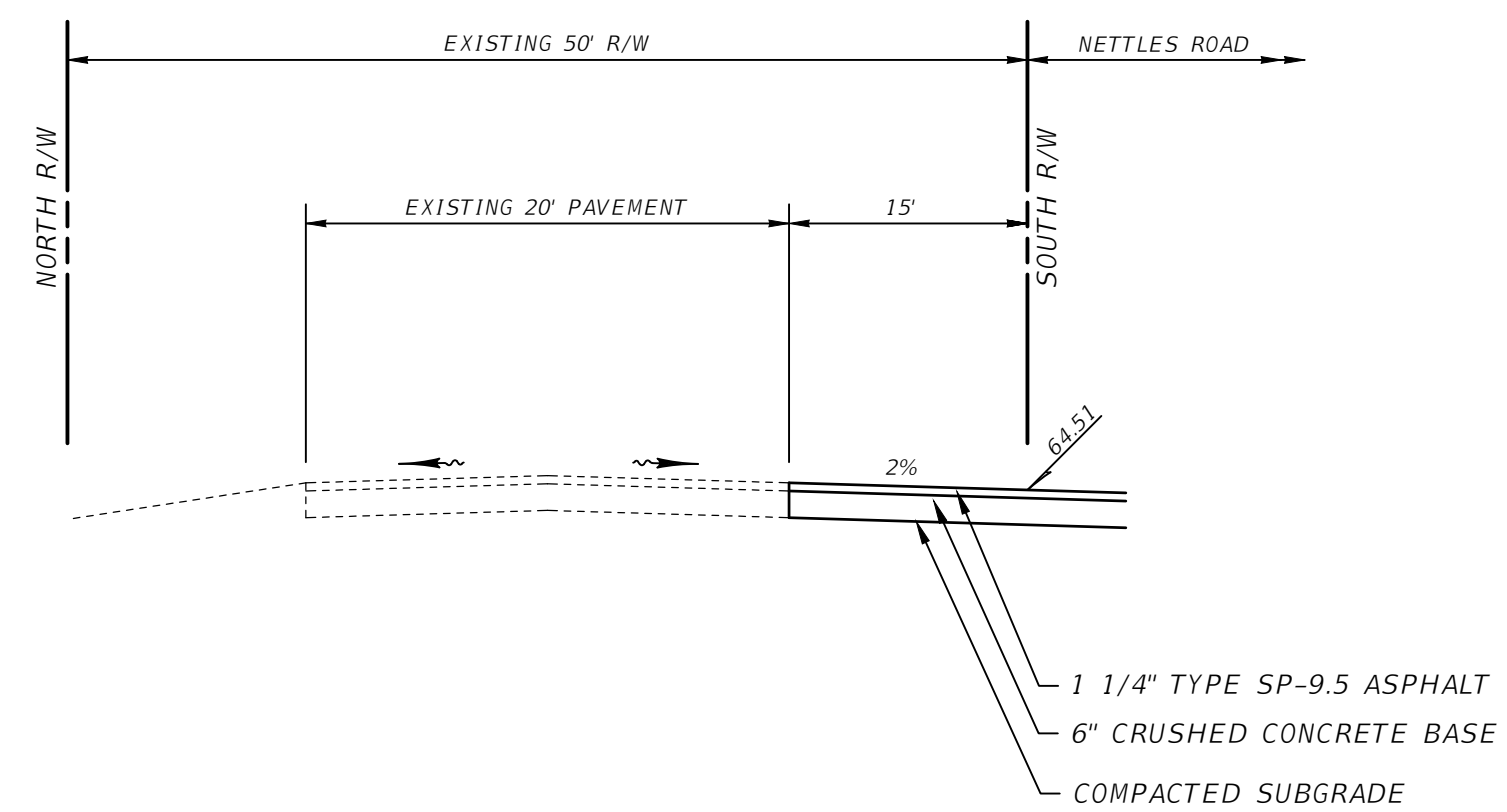
**SECTION S-S
SUNSET LANE**

- NO SCALE -



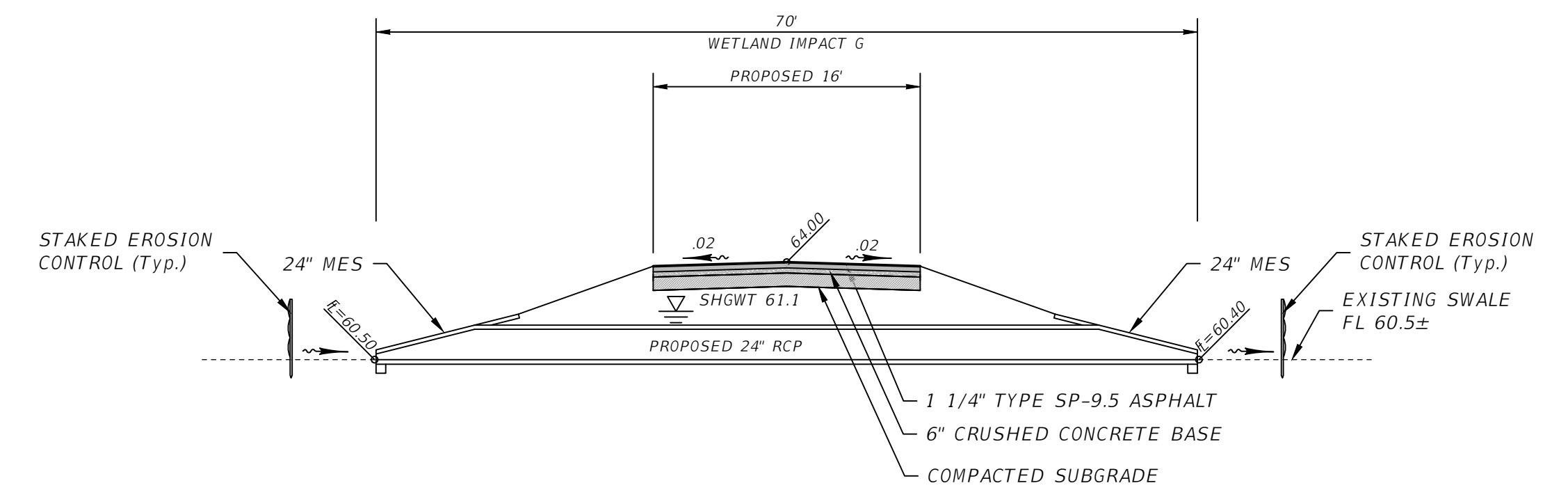
**SECTION A-A
NETTLES ROAD**

- NO SCALE -



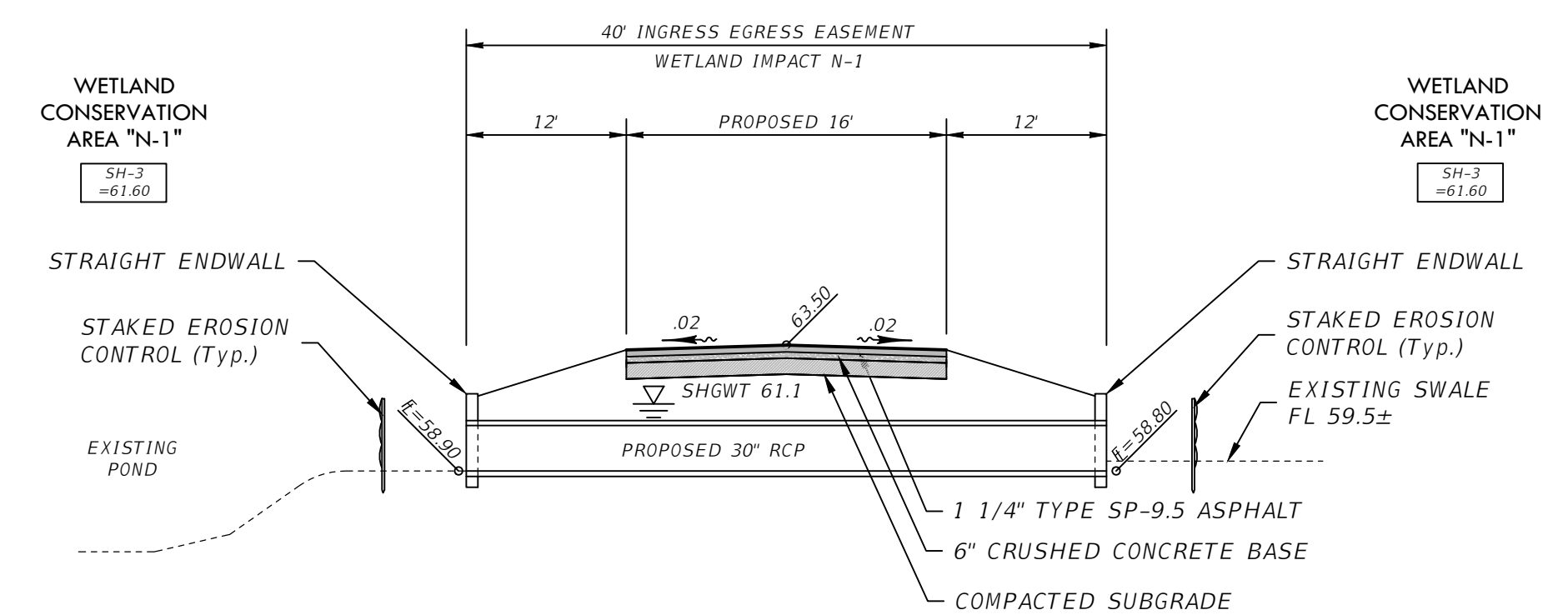
**SECTION D-D
SUNSET LANE**

- NO SCALE -



**SECTION B-B
WETLAND IMPACT G**

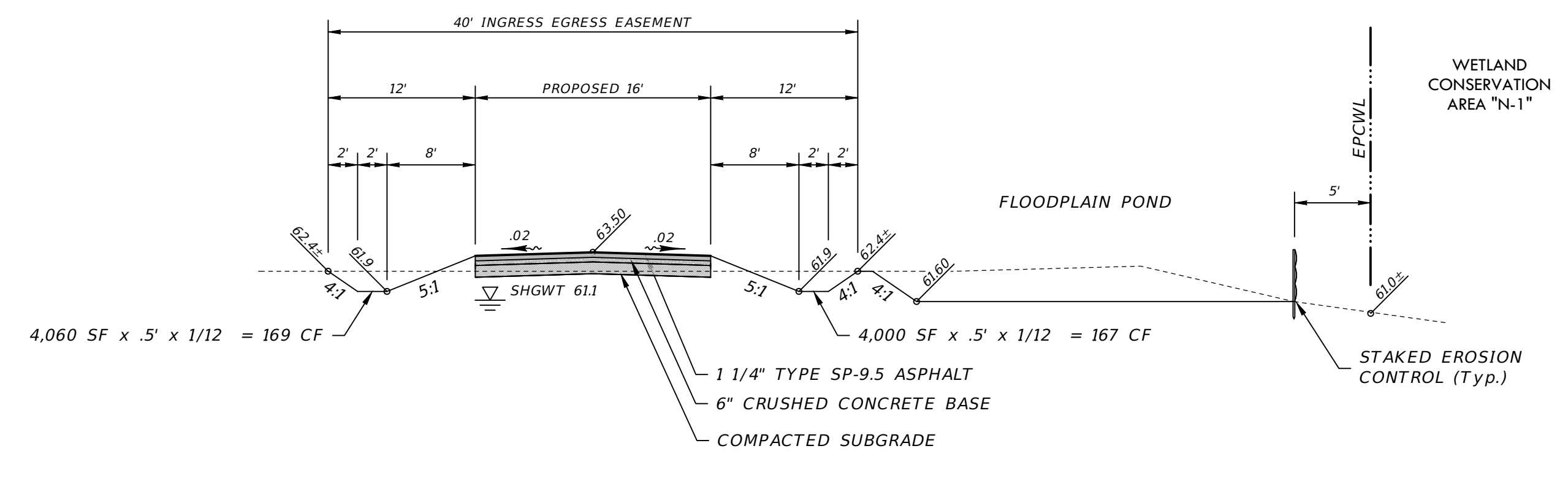
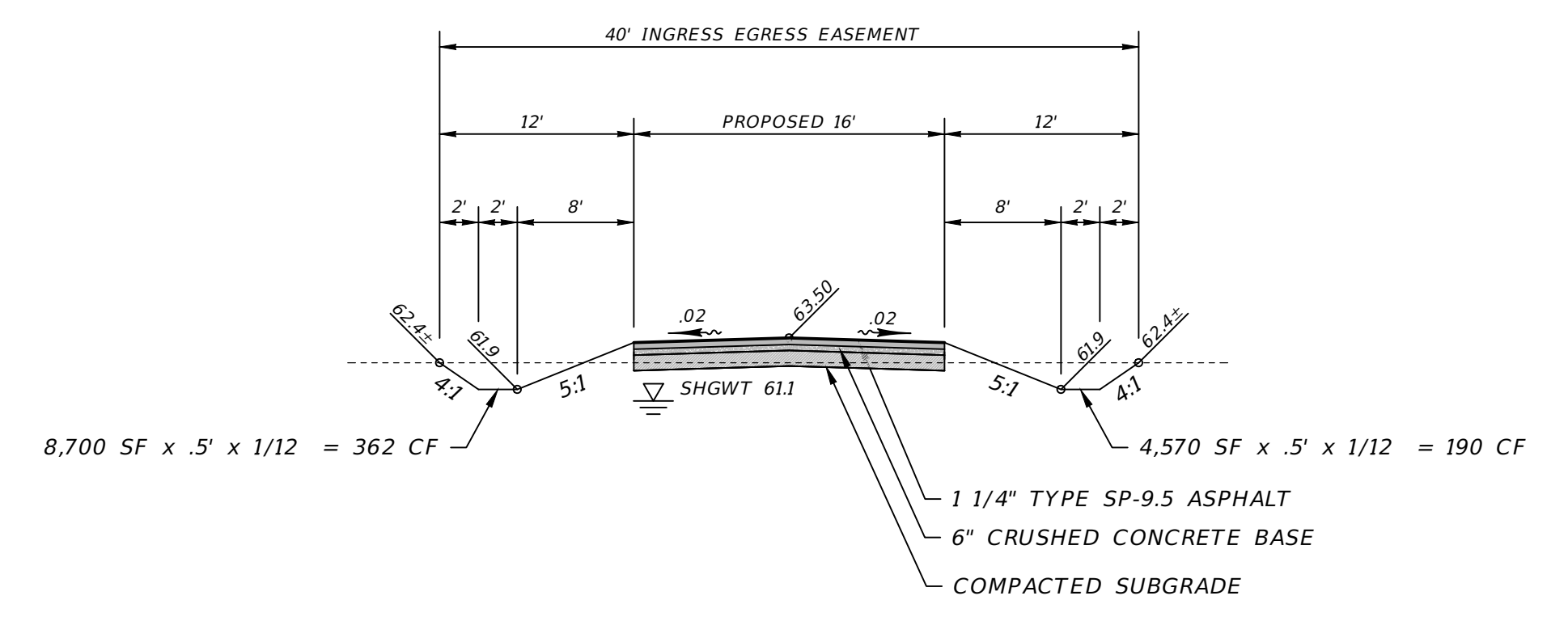
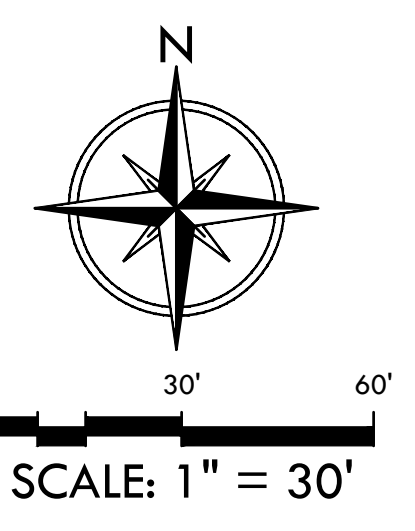
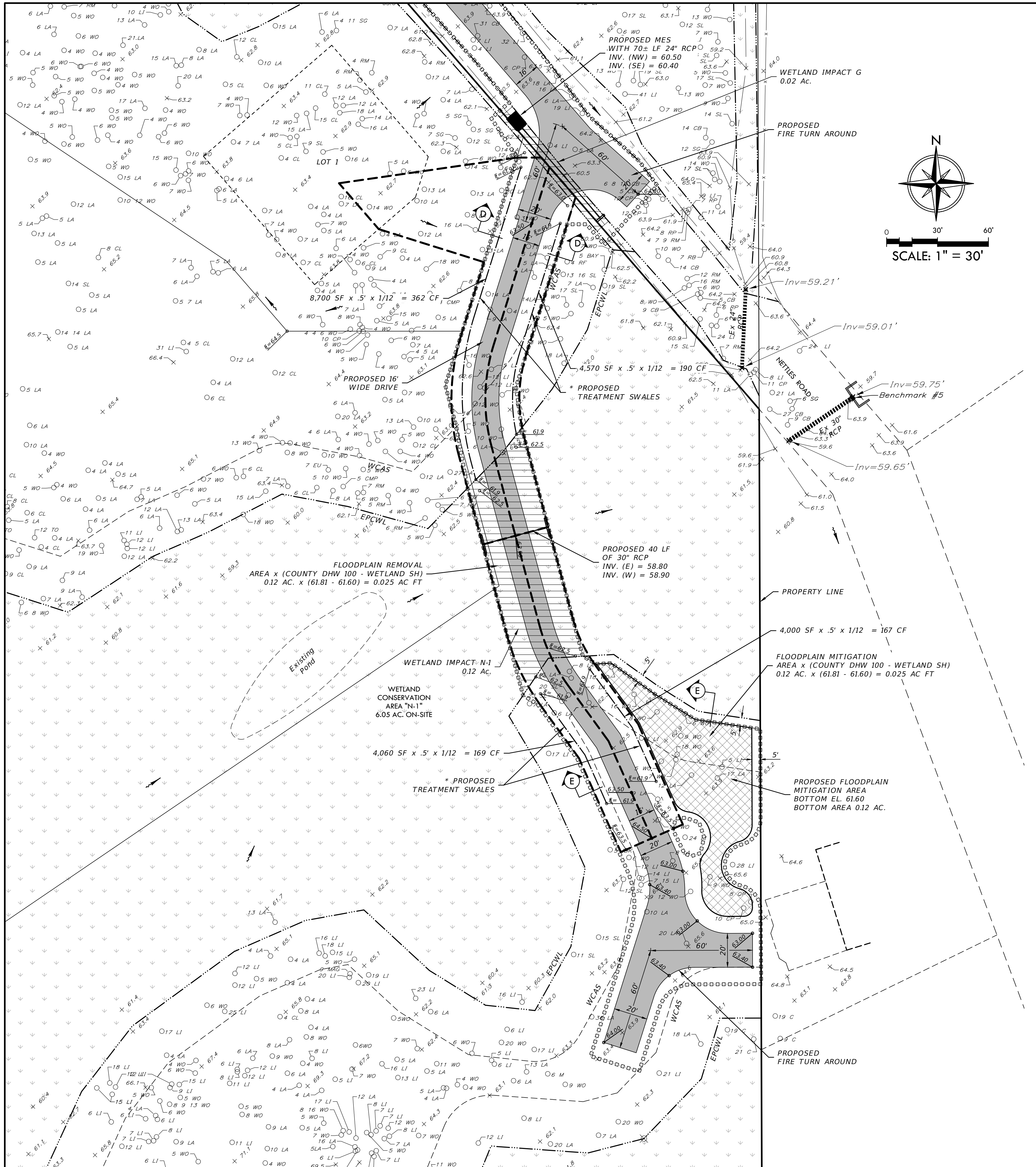
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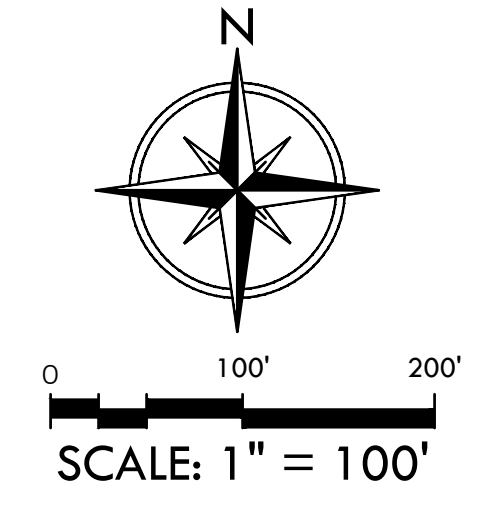
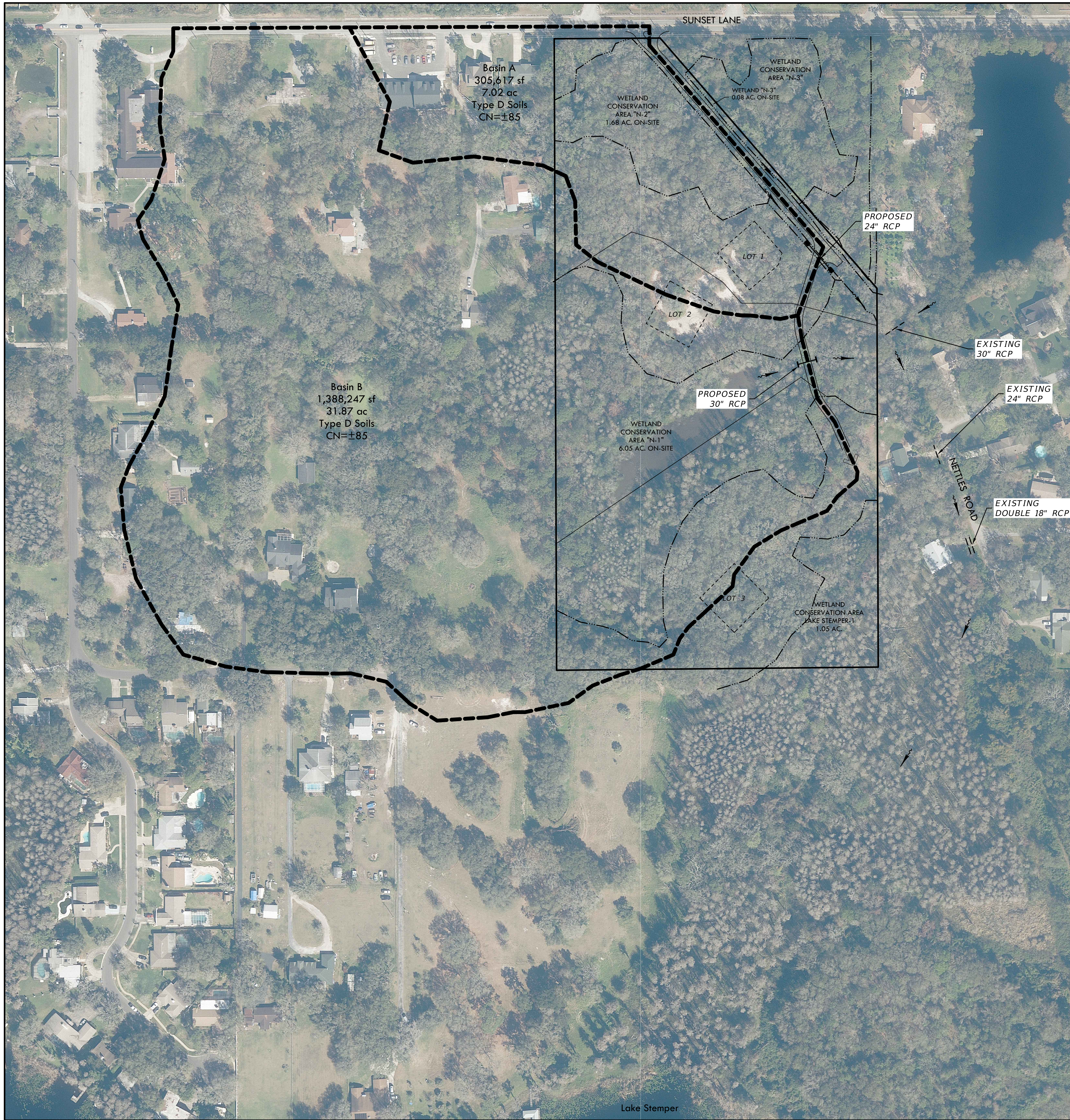
**SECTION C-C
WETLAND IMPACT N-1**

- NO SCALE -

David G. Fuxan, State of Florida Professional Engineer, Licence No. 23123 This item has been digitally signed and sealed by David G. Fuxan, P.E. on 1-3-2019. Printed copies of this document are not considered signed and sealed, and the signature must be verified on any electronic copies.		Engineering Business Certificate of Authorization No.: 26548 Fuxan Engineering, Inc. 15018 Maurine Cove Ln., Odessa, Florida 33556 Phone: 813-244-6194 STATE OF FLORIDA PROFESSIONAL ENGINEER		CROSS SECTIONS & DETAILS JOB NO. 2018-SP-01 SUNSET PRESERVE DESIGN: FUXAN DRAWN: MIDDLETON PREPARED FOR: ADS Services, Inc. DATE: 8-14-2018 Elevations based on North American Vertical Datum 1988 (NAVD 88) Conversion from NAVD 88 to NGVD 29 = +0.84 Feet FILE: DD	
10-11-18	Added Sht 3A, Added Sections	DM	DATE	DESCRIPTION	BY
REVISIONS					



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1-3-19	Fire Turn Arounds, Mitigation Area	DM					
10-11-18	Lot Lines, Easement, Sections	DM					
	DESCRIPTION	BY					
	REVISIONS						



NOTES:
 1. This Aerial Exhibit has been prepared for illustrative purposes only and is consequently not sufficiently accurate for planning, design or construction.
 2. Photo Date: 2014

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		Fuxan Engineering, Inc.		SUNSET PRESERVE	
		15018 Maurine Cove Ln. Odessa, Florida 33556 Phone: 813-244-6194		ADS Services, Inc.	
10-11-18	On-Site Wetland Areas, PL	DM	DATE:	8-14-2018	Elevations based on North American Vertical Datum 1988 (NAVD 88) Conversion from NAVD 88 to NGVD 29 = +0.84 Feet
	REVISIONS		DAVID G. FUXAN, P.E. NO. 33133 FLORIDA PROFESSIONAL ENGINEER	DRA	SHEET 5 OF 5 SHEETS