

TOWN OF SOUTHWEST RANCHES 2020 TSDOR

OCTOBER 2020



PROJECT LOCATION

PROJECT LOCATION

DESIGN TEAM

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COMMUNITY OFFICIALS

Mayor	Dough McKay
Vice Mayor	Denise "Dee" Schroeder
Councilmember	Gary Jablonski
Councilmember	Delsa Winslow Amundson
Councilmember	Bob Hartmann
Administrator	Andrew "Andy" Berns
Attorney	Keith Poliakoff
Clerk	Russell Muñiz
Public Works Director	Rod Ley



VICINITY MAP
SCALE: 1" = 100'



VICINITY MAP
SCALE: 1" = 150'

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ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN REDUCED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.

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No.	REVISIONS	DATE	BY

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LICENSED PROFESSIONAL
KHA PROJECT 143221000
DATE APRIL 2020
SCALE AS SHOWN
DESIGNED BY MM
DRAWN BY AL
CHECKED BY MM
DATE 10/21/2020
STEFANO F. VIOLA
FL LICENSE NUMBER 74655

COVER SHEET

SOUTHWEST RANCHES
2020 TSDOR
PREPARED FOR
TOWN OF SOUTHWEST RANCHES
FL
SHEET NUMBER
C000.0

Plotted By: Marina, Morriss - Sheet Set: SOUTHWEST RANCHES 2020 TSDOR - LAYOUT: C100.0 - GENERAL NOTES - October 21, 2020 - 04:20:09pm - K:\FL\01\143\Jobs\143221000-SW_Ranches_TSDOR\CAD\Plantings\C100.0_GENERAL_NOTES.dwg - This document, together with the concepts and designs presented herein, is an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

GENERAL NOTES

I. APPLICABLE CODES

- A. GENERAL
- ALL WORK FOR THIS PROJECT SHALL BE COMPLETED WITHIN AND FROM EXISTING RIGHT OF WAY.
 - COUNTY IN THESE NOTES REFERS TO BROWARD COUNTY, TOWN IN THESE NOTES REFERS TO THE TOWN OF SOUTHWEST RANCHES, STATE IN THESE NOTES REFERS TO THE STATE OF FLORIDA.
 - THE FDOT INDICES REFERRED TO IN THE DRAWINGS AND NOTES REFERS TO FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND FDOT DESIGN STANDARDS LATEST EDITION.
 - ALL WORK AND MATERIALS SHALL CONFORM TO THE LATEST STANDARDS, CODES, REGULATIONS AND SPECIFICATIONS OF THE TOWN, COUNTY, STATE, AND FEDERAL CODES WHERE APPLICABLE.
 - THE CONTRACTOR SHALL BE REQUIRED TO COMPLY WITH FEDERAL, STATE, AND COUNTY LAWS, CODES, ORDINANCES AND REGULATIONS.
 - IN THE EVENT OF A CONFLICT BETWEEN THE GENERAL NOTES AND CONSTRUCTION SPECIFICATIONS IN THESE PLANS AND THE CONTRACT DOCUMENTS AND SPECIFICATIONS IN THE SPECIFICATIONS BOOKLET THE CONTRACTOR SHALL SUBMIT WRITTEN REQUEST FOR CLARIFICATION TO THE ENGINEER.
 - ALL HANDICAP ACCESSIBLE ACCESS TO CONFORM WITH THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT AND LOCAL, STATE, AND FEDERAL CODES, LATEST EDITION.
 - THE CONTRACTOR IS REQUIRED TO OBTAIN ALL APPLICABLE CONSTRUCTION PERMITS PRIOR TO START OF CONSTRUCTION. THE CONTRACTOR SHALL APPLY FOR AND SECURE ALL PERMITS AND LICENSES, PAY ALL APPLICABLE CHARGES, TAXES, ROYALTIES & FEES, AND GIVE ALL NOTICES NECESSARY TO COMPLETE THIS PROJECT.
 - RADI DIMENSIONS AND ELEVATIONS ARE TO BE EDGE OF PAVEMENT AND FINISH GRADE UNLESS NOTED OTHERWISE.
 - IF ABANDONED GAS, WATER, AND SEWER SERVICE LATERALS ARE ENCOUNTERED DURING EXCAVATION, THE SECTION IN THE EXCAVATED ENVELOPE WILL BE REMOVED AND THE STUB ON THE SIDE CONNECTED TO THE MAIN WILL BE CAPPED, FLUGGED OR OTHERWISE SEALED.
 - CONTRACTOR SHALL NOTIFY BROWARD COUNTY TRAFFIC ENGINEERING DIVISION 72 HOURS PRIOR TO WORK WITHIN COUNTY RIGHT-OF-WAY.
 - ITEMS IN CONFLICT WITH DESIGN SUCH AS EXISTING CURBS AND GUTTERS, SIDEWALKS, DRAINAGE STRUCTURES PAVEMENT AND BASE AND EXCESS EXCAVATIONS ARE TO BE REMOVED BY CONTRACTOR AND DISPOSED OF IN A LEGAL AND PROPER MANNER AWAY FROM THE JOB SITE AT THE CONTRACTOR'S EXPENSE UNLESS THE ITEMS ARE TO BE REUSED ON THE PROJECT.
 - EXCESS MATERIAL REMOVED BY THE CONTRACTOR WILL BE DISPOSED OF IN AREAS PROVIDED BY THE CONTRACTOR.
 - THE INFORMATION PROVIDED IN THESE PLANS IS TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF THE CONDITIONS WHICH MAY BE ENCOUNTERED DURING THE COURSE OF THE WORK. ALL CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT ANY INVESTIGATIONS THEY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSIONS REGARDING THE ACTUAL CONDITIONS WHICH WILL BE ENCOUNTERED AND UPON WHICH THEIR BIDS WILL BE BASED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INVESTIGATE SITE CONDITIONS OF THE PROJECT AND FULLY SATISFY THEMSELVES OF BOTH THE SURFACE AND SUBSURFACE CONDITIONS AND BASE THEIR PRICING ACCORDINGLY. CONTRACTOR SHALL PRESERVE ALL STREET SIGNS, BENCHES, TRAFFIC CONTROL SIGNS, LANDSCAPING, ETC. WHEN DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL REINSTALL OR DELIVER SAID PUBLIC PROPERTY TO THE COUNTY.
 - THE CONTRACTOR SHALL TAKE SPECIAL NOTE OF ANY SPECIAL EQUIPMENT SHORING, SHEETING OR OTHER MEASURES NECESSARY TO PROTECT ADJACENT PROPERTY, EITHER PUBLIC OR PRIVATE, DURING EXCAVATION OF SUBSOIL MATERIAL OR DURING THE FILLING OF ANY AREA, OR FOR ANY AREA, OR FOR ANY OPERATION DURING CONSTRUCTION SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
 - APPARENT ERRORS, DISCREPANCIES, OR OMISSIONS ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD IMMEDIATELY.
 - THE AMOUNT OF EACH OF THE MATERIALS PROVIDED IS THE ESTIMATED AMOUNT REQUIRED TO COMPLETE THE JOB. THESE QUANTITIES ARE ESTIMATED ONLY AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLETE THE JOB IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. SHOULD ADDITIONAL MATERIALS BE REQUIRED THEY WILL BE PAID FOR AT THE CONTRACT UNIT PRICES AS DESCRIBED IN THE BID DOCUMENTS.
 - THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES THAT REMAIN IN PLACE.
 - ALL ROAD CROSSINGS ARE OPEN CUT UNLESS OTHERWISE NOTED ON THE DRAWINGS.
 - THE CONTRACTOR SHALL REPLACE ALL PAVING, STABILIZING EARTH, DRIVEWAYS, SIDEWALKS, ETC. WITH THE SAME TYPE OF MATERIAL THAT WAS REMOVED DURING CONSTRUCTION OF AS DIRECTED BY THE ENGINEER.
 - THE CONTRACTOR SHALL NOT ENCROACH INTO PRIVATE PROPERTY WITH PERSONNEL, MATERIAL OR EQUIPMENT WITHOUT OBTAINING WRITTEN PERMISSION FROM THE OWNER.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE, REMOVAL OR MODIFICATION ACCIDENTALLY OR PURPOSELY, CAUSED BY ANY IRRIGATION SYSTEMS, PRIVATE OR PUBLIC WITHIN THE PROJECT LIMITS. THE COSTS TO REPLACE, REMOVE OR MODIFY IRRIGATION PIPES, SPRINKLER HEADS OR OTHER PERTINENT APPURTENANCES SHALL BE CONSIDERED INCIDENTAL TO AND SHALL BE INCLUDED IN THE OTHER ITEMS OF RELATED WORK. ALL COSTS DUE TO DAMAGE SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE INTEGRITY OF AND MAKING THE REPAIRS OF EXISTING PAVEMENT, PIPES, CONDUITS, CURBS, CABLES, TREES, SOI, LANDSCAPE ITEMS, ETC. WHETHER OR NOT SHOWN ON THE PLANS DAMAGED AS A RESULT OF THE CONTRACTOR'S OPERATIONS AND/OR THOSE OF THEIR SUBCONTRACTORS. CONTRACTOR SHALL REPORT ANY DAMAGE TO SIDEWALK, DRIVEWAY, ETC. PRIOR TO BEGINNING WORK IN ANY AREA.
 - CONTRACTOR SHALL REMOVE AND REINSTALL ALL BRICK OR PAVEMENT DRIVEWAYS IMPACTED BY CONSTRUCTION. REPAIR OR REPLACE ALL ASPHALT, CONCRETE, OR STAMPED CONCRETE DRIVEWAYS IMPACTED BY CONSTRUCTION. ALL COSTS ASSOCIATED WITH THIS WORK SHALL BE INCLUDED AS PART OF THE OVERALL BID.
 - THE CONTRACTOR SHALL RESTORE OR REPLACE, WHEN AND AS DIRECTED BY THE ENGINEER, ANY PUBLIC OR PRIVATE PROPERTY DAMAGED BY HIS WORK, EQUIPMENT, EMPLOYEES OR THOSE OF HIS SUBCONTRACTORS TO A CONDITION AT LEAST EQUAL (DETERMINED BY THE ENGINEER OF RECORD) TO THAT EXISTING IMMEDIATELY PRIOR TO THE BEGINNING OF OPERATIONS.
 - CONTRACTOR SHALL ADJUST ALL EXISTING SURFACE FEATURES SUCH AS EXISTING FRAMES, GRATES, MANHOLE COVERS, UTILITY VALVE BOXES, MONITORING WALLS, ECT. TO MATCH PROPOSED GRADES. CONTRACTOR TO SUPPLY AND INSTALL COMPOSITE MANHOLE AND VALVE RISERS.
 - ALL INSTALLATIONS WITHIN BROWARD COUNTY JURISDICTION RIGHTS OF WAY SHALL BE IN CONFORMITY WITH THE BROWARD COUNTY HIGHWAY CONSTRUCTION & ENGINEERING DIVISION "MINIMUM STANDARDS".
 - THE TOWN OF SOUTHWEST RANCHES SHALL RECEIVE A COPY OF ALL REQUIRED DENSITY REPORTS, AS-BUILTS, AND SHOP DRAWINGS OF THE PROJECT.

- B. CONSTRUCTION SAFETY
- ALL CONSTRUCTION SHALL BE DONE IN A SAFE MANNER SPECIFICALLY, THE RULES AND REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) SHALL BE STRICTLY OBSERVED.
- C. TRENCH SAFETY ACT
- CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH THE STATE OF FLORIDA TRENCH SAFETY ACT.
 - WHERE EXCAVATIONS TO A DEPTH IN EXCESS OF FIVE FEET (5) ARE REQUIRED, THE CONTRACTOR SHALL INCLUDE THE FOLLOWING INFORMATION IN THE BID:
 - A REFERENCE TO THE TRENCH SAFETY STANDARDS THAT WILL BE IN EFFECT DURING THE PERIOD OF CONSTRUCTION OF THE PROJECT.
 - WRITTEN ASSURANCES BY THE CONTRACTOR PERFORMING THE TRENCH EXCAVATION THAT SUCH CONTRACTOR WILL COMPLY WITH THE APPLICABLE TRENCH SAFETY STANDARDS.
 - A SEPARATE ITEM IDENTIFYING THE COST OF COMPLIANCE WITH THE APPLICABLE TRENCH SAFETY STANDARDS, WHEN A BID IS NOT SUBMITTED, THE CONTRACTOR SHALL SUBMIT THE INFORMATION LISTED IN ITEM 2.I) TO THE ENGINEER PRIOR TO STARTING WORK.

II. PRECONSTRUCTION RESPONSIBILITIES

- A. GENERAL
- UPON RECEIPT OF THE "NOTICE TO PROCEED", THE CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD AND ARRANGE A PRE-CONSTRUCTION CONFERENCE TO INCLUDE THE COUNTY, AND ALL INVOLVED GOVERNMENTAL AGENCIES, UTILITY OWNERS, AND THE ENGINEER OF RECORD, AND HOLD THE MANDATORY PRE-CONSTRUCTION CONFERENCE AFTER ISSUANCE OF THE CONTRACT'S "NOTICE TO PROCEED" BUT BEFORE THE ACTUAL CONSTRUCTION DATE. CONTRACTOR MAY NOT BEGIN WORK BEFORE ACTUAL CONSTRUCTION DATE.
 - THE CONTRACTOR SHALL OBTAIN A SUNSHINE CERTIFICATION NUMBER AT LEAST 48 HOURS PRIOR TO BEGINNING ANY EXCAVATION.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR DOCUMENTING/RECORDING EXISTING SITE CONDITIONS USING PHOTOGRAPHS/VIDEO RECORDINGS PRIOR TO START OF CONSTRUCTION. CONTRACTOR TO PROVIDE COPY OF RECORDS TO TOWN AND ENGINEER OF RECORD FOR RECORD PURPOSES.
 - PRIOR TO BEGINNING CONSTRUCTION THE CONTRACTOR SHALL VERIFY THE SIZE, LOCATION ELEVATION, AND MATERIAL OF ALL EXISTING UTILITIES WITHIN THE AREA OF CONSTRUCTION.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ANY EXISTING UTILITIES FOR WHICH IT FAILS TO REQUEST LOCATIONS FROM THE UTILITY OWNER. THE CONTRACTOR IS RESPONSIBLE AS WELL FOR DAMAGE TO ANY EXISTING UTILITIES WHICH ARE PROPERLY LOCATED.
 - IF UPON EXCAVATION, AN EXISTING UTILITY IS FOUND TO BE IN CONFLICT WITH THE PROPOSED CONSTRUCTION OR TO BE OF A SIZE OR MATERIAL DIFFERENT FROM THAT SHOWN ON THE PLANS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER.
 - EXISTING UTILITIES SHALL BE MAINTAINED IN SERVICE DURING CONSTRUCTION UNLESS OTHERWISE APPROVED BY THE UTILITY OWNER.
 - THE CONTRACTOR SHALL COORDINATE WITH UTILITIES TO ARRANGE RELOCATION AND TEMPORARY SUPPORT OF UTILITY FEATURE ETC. AS NECESSARY TO COMPLETE THE WORK.
 - THE UTILITY COMPANIES SHALL BE NOTIFIED BY THE CONTRACTOR TWO (2) BUSINESS DAYS IN ADVANCE OF ANY EXCAVATION INVOLVING THEIR UTILITIES SO THAT A COMPANY REPRESENTATIVE CAN BE PRESENT.
 - THE CONTRACTOR IS TO USE CAUTION WHEN WORKING IN OR AROUND AREAS OF OVERHEAD TRANSMISSION LINES OR UNDERGROUND UTILITIES.
 - THE CONTRACTOR SHALL COORDINATE SELECTION AND REVIEW OF ANY PROPOSED STAGING AREAS ASSOCIATED WITH THIS PROJECT WITH THE TOWN OF SOUTHWEST RANCHES.

III. INSPECTIONS

- A. GENERAL
- THE CONTRACTOR SHALL GIVE THE ENGINEER OF RECORD A MINIMUM OF TWO (2) BUSINESS DAYS ADVANCE NOTICE PRIOR TO BACKFILLING OR COMPLETING THE INSPECTION OF THE FOLLOWING ITEMS SO THE ENGINEER OF RECORD CAN PERFORM FIELD OBSERVATIONS OF THE FOLLOWING ITEMS:
 - STORM DRAINAGE
 - WATER MAIN
 - SUBGRADE, SUBMIT AND HAVE APPROVED DENSITIES PRIOR TO PLACEMENT OF ROCK
 - LIMEROCK BASE; SUBMIT AND HAVE APPROVED DENSITIES AND AS-BUILTS PRIOR TO THE PLACEMENT OF ANY ASPHALT
 - ASPHALTIC CONCRETE
 - FINAL
 - ALL INSPECTIONS WILL BE MADE BY THE COUNTY AND THE TOWN OF SOUTHWEST RANCHES. THE ENGINEER OF RECORD WILL PROVIDE CONSTRUCTION OBSERVATION SERVICE.
 - IF THE CONTRACTOR FAILS TO NOTIFY THE ENGINEER OF RECORD PRIOR TO COMPLETING THE ABOVE, THE ENGINEER RESERVES THE RIGHT NOT TO ISSUE ANY CERTIFICATIONS OR FINAL INSPECTIONS.

IV. SHOP DRAWINGS

- A. GENERAL
- PRIOR TO THEIR CONSTRUCTION OR INSTALLATION, SHOP DRAWINGS SHALL BE SUBMITTED TO AND REVIEWED BY THE ENGINEER OF RECORD FOR SANITARY MANHOLES, CATCH BASINS, FIRE HYDRANTS, VALVES AND OTHER ACCESSORIES. CATALOGUE LITERATURE SHALL BE SUBMITTED FOR WATER AND SEWER PIPES, FITTINGS, AND APPURTENANCES. PRIOR TO SUBMITTING SHOP DRAWINGS TO THE ENGINEER, THE CONTRACTOR SHALL REVIEW AND APPROVE THE DRAWINGS, AND SHALL NOTE IN RED ANY DEVIATIONS FROM THE ENGINEER'S PLANS OR SPECIFICATIONS. INDIVIDUAL SHOP DRAWINGS FOR ALL PRECAST STRUCTURES ARE REQUIRED. CATALOGUE LITERATURE WILL NOT BE ACCEPTABLE FOR PRECAST STRUCTURES.
- V. TEMPORARY FACILITIES
- A. TEMPORARY UTILITIES
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE OR SUPPLY TEMPORARY WATER SERVICE, SANITARY FACILITIES, AND ELECTRICITY TO ITS EMPLOYEES AND SUBCONTRACTORS FOR THEIR USE DURING CONSTRUCTION.
- B. TRAFFIC REGULATION
- MAINTENANCE OF TRAFFIC IN THE PUBLIC RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH THE MUTCD. A MAINTENANCE OF TRAFFIC PLAN MUST BE APPROVED BY THE GOVERNMENTAL ENGINEERING DIVISION HAVING JURISDICTION FOR THE SECTION OF ROADWAY BEFORE STARTING WORK IN THE PUBLIC RIGHT-OF-WAY.
 - ALL OPEN TRENCHES AND HOLES ADJACENT TO ROADWAYS OR WALKWAYS SHALL BE PROPERLY MARKED AND BARRICADED TO ASSURE THE SAFETY OF BOTH VEHICULAR AND PEDESTRIAN TRAFFIC.
 - NO TRENCHES OR HOLES NEAR WALKWAYS OR IN ROADWAYS OR THEIR SHOULDERS ARE TO BE LEFT OPEN DURING NIGHTTIME HOURS WITHOUT EXPRESS PERMISSION OF THE COUNTY.
- C. TEMPORARY FACILITIES
- THE CONTRACTOR'S ON-SITE EQUIPMENT, STOCK PILED MATERIAL, AND SUPPLIES SHALL BE KEPT IN A SECURE, FENCED AND LOCKED LOCATION WHEN CONTRACTOR IS NOT SUPERVISING THE STAGING OR LAY DOWN AREA.
 - STAGING AND MATERIAL STORAGE SHALL NOT BE CONDUCTED ON ADJUTING PRIVATE PROPERTY OR PUBLIC RIGHT-OF-WAY WITHOUT APPROVAL FROM THE COUNTY AND THE TOWN OF SOUTHWEST RANCHES.
 - CONTRACTOR SHALL CONSTRUCT AND MAINTAIN TEMPORARY STREET LIGHTING AS REQUIRED TO LIGHT THE CONSTRUCTION PROJECT LIMITS AT ALL TIMES TO AT LEAST THE SAME LIGHTING INTENSITY LEVELS AS WAS EXISTING PRIOR TO THE START OF CONSTRUCTION. THE COSTS ASSOCIATED WITH THE CONSTRUCTION AND MAINTAINING LIGHTING TO BE INCLUDED IN M.O.T. PAY ITEM.
 - CONTRACTOR TO COORDINATE WITH BROWARD COUNTY TRANSIT PRIOR TO BEGINNING OF CONSTRUCTION OF TEMPORARY RELOCATION OF BUS STOPS DURING CONSTRUCTION AND ADA ACCESS TO TEMPORARY STOP WITH BCT.
 - CONTACT BROWARD COUNTY TRANSIT AT 954-357-8390 OR AT 954-357-8023.
 - THE CONTRACTOR SHALL COORDINATE SELECTION AND REVIEW OF ANY PROPOSED STAGING AREAS ASSOCIATED WITH THIS PROJECT WITH THE TOWN OF SOUTHWEST RANCHES.

VI. PROJECT CLOSEOUT

- A. CLEANING UP
- DURING CONSTRUCTION, THE PROJECT SITE AND ALL ADJACENT AREAS SHALL BE MAINTAINED IN A NEAT AND CLEAN MANNER. UPON FINAL CLEAN UP, THE PROJECT SITE SHALL BE LEFT CLEAR OF ALL SURPLUS MATERIAL OR TRASH. THE PAVED AREAS SHALL BE SWEEP BROOM CLEAN.
 - THE CONTRACTOR SHALL RESTORE OR REPLACE, WHEN AND AS DIRECTED BY THE ENGINEER OR THOSE OF ITS SUBCONTRACTORS, TO A CONDITION AT LEAST EQUAL OR BETTER TO THE EXISTING CONDITION IMMEDIATELY PRIOR TO THE BEGINNING OF OPERATIONS. TO THIS END, THE CONTRACTOR SHALL DO ALL NECESSARY HIGHWAY OR DRIVEWAY, WALK AND LANDSCAPING WORK. SUITABLE MATERIALS AND METHODS SHALL BE USED FOR SUCH RESTORATION.
 - WHERE MATERIAL OR DEBRIS HAS WASHED OR FLOWED INTO OR BEEN PLACED IN WATER COURSES, DITCHES, DRAINS, CATCH BASINS, OR ELSEWHERE AS A RESULT OF THE CONTRACTOR'S OPERATIONS, SUCH MATERIAL OR DEBRIS SHALL BE REMOVED AND SATISFACTORILY DISPOSED OF DURING PROGRESS OF THE WORK, AND THE AREA KEPT IN A CLEAN AND NEAT CONDITION.
 - UPON COMPLETION OF THE PROPOSED DRAINAGE WORK, THE CONTRACTOR SHALL CLEAN THE NEW SYSTEM, REMOVE ALL POLLUTION CONTROL DEVICES FROM THE NEW AND EXISTING SYSTEM, AND CLEAN THE EXISTING STRUCTURES AND DRAINAGE SYSTEM AT NO ADDITIONAL COST TO THE OWNER.
 - THE CONTRACTOR IS RESPONSIBLE FOR CLEANING OF ALL OF THE EXISTING DRAINAGE SYSTEM AFFECTED BY THE CONSTRUCTION WITHIN THE RIGHT-OF-WAY UPON COMPLETION OF THE PROJECT.
- B. PROJECT RECORD DOCUMENTS
- THE CONTRACTOR SHALL MAINTAIN ACCURATE AND COMPLETE RECORDS OF WORK ITEMS COMPLETED.
 - PRIOR TO THE PLACEMENT OF ANY ASPHALT OR CONCRETE PAVEMENT, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER "AS-BUILT" PLANS (SIGNED AND SEALED BY A FLORIDA CERTIFIED PROFESSIONAL LAND SURVEYOR) AS REQUIRED FOR SUBMITTAL AND APPROVAL. THESE DRAWINGS SHALL BE MARKED TO SHOW "AS-BUILT" CONSTRUCTION CHANGES AND DIMENSIONED LOCATIONS AND ELEVATIONS OF ALL IMPROVEMENTS AND SHALL BE SIGNED AND SEALED BY A REGISTERED LAND SURVEYOR.
 - ALL "AS-BUILT" INFORMATION ON THE ELEVATIONS OF WATER, SEWER, PAVING, AND DRAINAGE SHALL BE CERTIFIED BY A REGISTERED LAND SURVEYOR.
 - AS-BUILT INFORMATION ON THE WATER SYSTEM SHALL INCLUDE LOCATIONS OF ALL VALVES, FITTINGS, FIRE HYDRANTS, WATER SERVICES AND TOP OF PIPE ELEVATIONS AT ALL FITTINGS AND AT A MINIMUM OF 100' SPACING.
 - THE COST OF SIGNED AND SEALED AS-BUILTS AND CAD FILES SHALL BE INCLUDED IN THE COST OF THE OVERALL BID.

VII. EARTHWORK

- A. GENERAL
- NONE OF THE EXISTING MATERIAL IS TO BE INCORPORATED IN THE LIMEROCK BASE.
 - ALL SUB-GRADE UNDER PAVED AREAS SHALL BE 12" THICK AND HAVE A MINIMUM LBR VALUE OF 40. AND SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.
 - ALL FILL MATERIAL IN AREAS NOT TO BE PAVED SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.
 - A 2" BLANKET OF TOP SOIL SHALL BE PLACED OVER ALL AREAS TO BE SODDED.
 - SOI SHALL BE ST. AUGUSTINE, BITTER BLUE OR FLORATAM AND SHALL BE PLACED ON THE GRADED TOP SOIL AND WATERED TO INSURE SATISFACTORY CONDITION UPON FINAL ACCEPTANCE OF THE PROJECT.
 - WHEN WORKING IN AND AROUND EXISTING DRAINAGE CANALS OR LAKES, APPROPRIATE SILT BARRIERS SHALL BE INSTALLED.
 - ALL ORGANIC AND OTHER UNSUITABLE MATERIAL UNDER THOSE AREAS TO BE PAVED SHALL BE REMOVED TO A DEPTH OF THREE (3) FEET BELOW FINISHED GRADE AND FOR THREE(3) FEET BEYOND THE PERIMETER OF THE PAVING.
 - SUITABLE BACKFILL SHALL BE MINIMUM DENSITY COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180 THREE (3) FEET BEYOND THE PERIMETER OF PAVING.
 - CONTRACTOR SHALL TIE TO EXISTING GRADE BY EVENLY SLOPING FROM CLOSEST PROPOSED GRADE PROVIDED TO EXISTING GRADE AT LIMITS OF WORK UNLESS OTHERWISE NOTED ON PLANS. IF NO LIMIT OF WORK IS INDICATED, SLOPE TO THE ADJACENT PROPERTY LINE OR RIGHT-OF-WAY LINE AS APPLICABLE.
 - SITE GRADING ELEVATIONS SHALL BE WITHIN 0.1 OF THE REQUIRED ELEVATION AS SHOWN ON THE PLANS AND ALL AREAS SHALL BE GRADED TO DRAIN WITHOUT PONDING.
 - GROUND ADJACENT TO ROADWAY/PAVEMENT WHERE STORMWATER RUNOFF FLOWS FROM PAVEMENT TO GROUND SHALL BE GRADED TO A MINIMUM OF TWO (2) INCHES LOWER OF PAVEMENT TO ALLOW FOR THE PLACEMENT OF SOI.
 - WHEN ENCOUNTERED WITHIN PROPOSED DRAINAGE SWALES, HARDPAN SHALL BE REMOVED FOR A WIDTH OF FIVE (5) FEET AT THE INVERT AND REPLACED WITH GRANULAR MATERIALS.
 - ALL AREAS TO BE RESTORED UPON WITH STRUCTURES, PAVEMENT, DRAINAGE, WATER, SEWER, CURBING, SIDEWALK, FENCING, ETC., SHALL BE CLEARED AND GRUBBED PRIOR TO CONSTRUCTION. THIS SHALL CONSIST OF THE COMPLETE REMOVAL OF AND DISPOSAL OF ALL TREES, BRUSH, STUMPS, ROOTS, GRASS, WEEDS, RUBBISH, AND ALL OTHER OBSTRUCTIONS RESTING ON OR PROTRUDING THROUGH THE SURFACE OF THE EXISTING GROUND TO A DEPTH OF 6 INCHES. ITEMS DESIGNATED TO OPERATION, ALL WORK SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS.
 - ALL PROPOSED GRADES SHOWN IN PLAN ARE FINISHED GRADES.

VIII. PAVING

- A. GENERAL
- ALL REPAIRS TO EXISTING PAVEMENT SHALL RECEIVE SAW-CUT EDGES PRIOR TO RELAYING ASPHALT. ALL EXISTING PAVEMENT, LIMEROCK AND SUB-GRADE THAT IS AFFECTED AND NOT PART OF THE CONSTRUCTION PROJECT SHALL BE PROPERLY RESTORED AT THE CONTRACTOR'S EXPENSE.
- B. MATERIALS
- LIMEROCK BASE MATERIAL SHALL HAVE A MINIMUM OF 70% CARBONATES (CALCIUM AND MAGNESIUM) WITH A MINIMUM LBR OF 100.
 - PRIME COAT SHALL BE APPLIED AT THE RATE OF 0.25 GAL/YD SQ. AND TACK COAT SHALL MEET FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARDS.
 - SURFACE COURSE SHALL BE EQUAL TO FDOT TYPE SP-9.5 ASPHALTIC CONCRETE.
- C. INSTALLATION
- LIMEROCK BASE MATERIAL SHALL BE 12" THICK AND COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.
 - LIMEROCK BASE MATERIAL SHALL BE PLACED IN MAXIMUM 6" LIFTS. BASES GREATER THAN 6" OF LIMEROCK SHALL BE PLACED IN TWO OR MORE EQUAL LIFTS. LIMEROCK BASE SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.
 - ASPHALTIC CONCRETE SHALL BE 1" SP-9.5 OR 2" SP-9.5 AS SPECIFIED.
 - PRIME COAT SHALL BE PLACED ON ALL LIMEROCK BASES IN ACCORDANCE WITH FDOT STANDARDS.
 - TACK COAT SHALL BE PLACED AS REQUIRED IN ACCORDANCE WITH FDOT STANDARDS.
 - CARBONATES CONTENT MINIMUM 70% AND LBR MINIMUM OF 100.
 - BASE COURSE CONSTRUCTION SHALL NOT BE STARTED UNTIL ALL UNDERGROUND CONSTRUCTION IN THE VICINITY HAS BEEN TESTED AND ACCEPTED.
 - WEARING COURSES SHALL NOT BE PLACED UNTIL:
 - A WALK THROUGH HAS BEEN CONDUCTED TO DETERMINE IF THERE IS ANY REMAINING WORK THAT MIGHT CAUSE DAMAGE TO THE FINAL LIFT.
 - ALL LANDSCAPING WORK THAT MIGHT CAUSE DAMAGE TO THE FINAL LIFT IS COMPLETE.
- D. TESTING
- ALL SUB-GRADE, LIMEROCK AND ASPHALT TESTS REQUIRED SHALL BE TAKEN AT THE DIRECTION OF THE ENGINEER AND PER THE TOWN OF SOUTHWEST RANCHES REQUIREMENTS.
 - DENSITY TESTS SHALL BE CONDUCTED EVERY 200 FEET AND TWO FEET AWAY FROM ANY MANHOLE OR DRAINAGE

STRUCTURE INSTALLED IN PAVED AREAS.

IX. SIGNING AND MARKING

- ALL PAVEMENT MARKING AND SIGNING SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), BROWARD COUNTY TRAFFIC ENGINEERING, FDOT, AND TOWN OF SOUTHWEST RANCHES STANDARDS.
- ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC UNLESS OTHERWISE NOTED. CONTRACTOR SHALL PAINT MARKINGS AFTER A 14 DAY CURING PERIOD, THERMOPLASTIC PAVEMENT MARKINGS SHALL BE PLACED.
- ONE BI-DIRECTIONAL YELLOW REFLECTIVE PAVEMENT MARKER SHALL BE PROVIDED AT 40' INTERVALS ON EACH SIDE OF DOUBLE YELLOW STRIPES.
- BI-DIRECTIONAL AMBER/AMBER REFLECTIVE PAVEMENT MARKERS SHALL BE PROVIDED AT 20' INTERVALS AT ALL BULLNOSES, AS PER BROWARD COUNTY TRAFFIC ENGINEERING DIVISION.
- BI-DIRECTIONAL WHITE REFLECTIVE PAVEMENT MARKERS SHALL BE PROVIDED AT 20' INTERVALS ALONG SOLID WHITE LINES (NOT ON EDGE OF PAVEMENT OR BIKE LANE LINES).
- REFLECTIVE PAVEMENT MARKERS SHALL BE CLASS B MARKERS MANUFACTURED IN ACCORDANCE WITH FDOT STANDARD SPECIFICATIONS 706 AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED PROCEDURES.
- ALL SIGNING SHALL BE FABRICATED USING TYPE XI SHEETING, AS PER BROWARD COUNTY TRAFFIC ENGINEERING STANDARDS (CURRENT EDITION).
- ALL PAVEMENT MARKINGS AND SIGNING DAMAGED DURING CONSTRUCTION SHALL BE RESTORED TO BROWARD COUNTY TRAFFIC ENGINEERING STANDARDS (CURRENT EDITION).
- IF REQUIRED, EXISTING MARKINGS SHALL BE REMOVED BY WATER BLASTING ONLY.
- SEE SIGNING AND MARKING DETAILS SHEET C400 FOR ADDITIONAL INFORMATION.
- ALL EXISTING SIGNALIZATION EQUIPMENT TO REMAIN IS ASSUMED TO BE IN GOOD WORKING ORDER UNLESS BROWARD COUNTY TRAFFIC ENGINEERING DIVISION IS NOTIFIED IN WRITING PRIOR TO START OF CONSTRUCTION. ANY SUBSEQUENT DAMAGE TO THE SIGNAL EQUIPMENT SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR TO SUBMIT ENGINEER APPROVAL LETTER ON PAVEMENT MARKINGS NOT MAINTAINED BY BROWARD COUNTY TRAFFIC ENGINEERING DEPARTMENT.

X. MAINTENANCE OF TRAFFIC

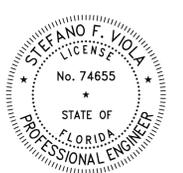
- TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE PROJECT TRAFFIC PLANS, THE CURRENT EDITION OF THE FDOT ROAD AND BRIDGE DESIGN STANDARD INDEXES (600 SERIES), THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AS MINIMUM CRITERIA.
 - THE CONTRACTOR SHALL IMMEDIATELY REPAIR ALL POTHOLES THAT DEVELOP WITH PROJECT LIMITS AND WILL MAINTAIN A SUPPLY OF COLD MIX ON THE PROJECT SITE TO EXPEDITE THOSE REPAIRS. ALL COSTS ASSOCIATED WITH THIS WORK SHALL BE INCLUDED AS PART OF THE OVERALL BID.
 - REQUEST FOR PROPOSED LANE CLOSURES OR TEMPORARY DETOURS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL TO ROADWAY DESIGN PRIOR TO CONSTRUCTION.
 - AT THE DISCRETION OF THE ENGINEER, IF A LANE CLOSURE CAUSES EXTENDED CONGESTION OR DELAY, THE CONTRACTOR SHALL BE DIRECTED TO REOPEN THE CLOSED LANE(S) UNTIL SUCH TIME THAT TRAFFIC FLOW HAS RETURNED TO AN ACCEPTABLE LEVEL.
 - THE TRAFFIC AND TRAVELWAYS SHALL NOT BE ALTERED BY THE CONTRACTOR TO CREATE A WORK ZONE UNTIL ALL LABOR AND MATERIAL ARE AVAILABLE FOR THE CONSTRUCTION IN THAT AREA.
 - THE CONTRACTOR SHALL REMOVE ANY EXISTING OR PROPOSED PAVEMENT MARKINGS THAT CONFLICT WITH THE TRAFFIC CONTROL. WHEN RESTORING THE CONTRACTOR SHALL RESTORE THE EXISTING PAVEMENT MARKINGS TO THEIR ORIGINAL POSITION. REMOVAL OF EXISTING AND/OR TEMPORARY PAVEMENT MARKINGS SHALL BE ACCOMPLISHED BY FOLLOWING METHODS: BY MILLING AND ASPHALT OVERLAY, BY GRINDING AND ASPHALT OVERLAY, SAND OR WATER BLASTING, OR BY OTHER MEANS APPROVED BY THE ENGINEER. GRINDING (WITHOUT ASPHALT OVERLAY) SHALL ONLY BE USED IN NON-ROADWAYS AREAS AS DESIGNATED BY THE ENGINEER. ALL COSTS OF PAVEMENT MARKING REMOVAL, INCLUDING THE COST OF ASPHALT OVERLAY REQUIRED WHEN MILLING OR GRINDING IS USED IN TRAFFIC AREAS, SHALL BE INCLUDED. USE OF BLACK PAINT TO COVER EXISTING AND/OR TEMPORARY PAVEMENT MARKINGS IS NOT ALLOWED.
 - CONTRACTOR SHALL REMOVE OR COVER ANY EXISTING OR PROPOSED SIGNS THAT CONFLICT WITH THE TRAFFIC CONTROL. WHEN THE CONFLICT NO LONGER EXISTS, CONTRACTOR SHALL RESTORE THE SIGNS TO THEIR ORIGINAL POSITION. COST TO BE INCLUDED IN THE BID.
 - ALL EXISTING STREET NAMES AFFECTED BY CONSTRUCTION SHALL BE RELOCATED TO AND MAINTAINED IN A VISIBLE LOCATION FOR THE DURATION OF THE PROJECT. WHEN NO LONGER AFFECTED BY CONSTRUCTION THEY SHALL BE RESTORED TO THEIR FINAL POSITION. COST TO BE INCLUDED IN BID.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMMEDIATE REMOVAL OF STORMWATER FROM ROADWAYS UTILIZED FOR TRAFFIC MAINTENANCE IN A MANNER APPROVED BY THE ENGINEER. COST TO BE INCLUDED IN BID.
 - AT THE END OF EACH WORK PERIOD, ANY DROP-OFF IN THE AREA ADJACENT TO THE TRAVEL WAY SHALL BE BACKFILLED IN ACCORDANCE WITH STANDARD INDEX 600 OR SHALL BE OTHERWISE PROTECTED WITH TEMPORARY BARRIER AT THE CONTRACTOR'S EXPENSE.
 - CONTRACTOR SHALL NOTIFY BROWARD COUNTY TRAFFIC ENGINEERING 48 HOURS PRIOR TO ANY MODIFICATION AND/OR CHANGES OF AN EXISTING TRAFFIC SIGNAL, (E.G TAKING THE SIGNALS OFF-LINE, REMOVING OR REPLACING LOOP ASSEMBLIES OR REARRANGING TRAFFIC SIGNAL HEADS). THE CONTRACTOR SHALL HAVE FULL RESPONSIBILITY FOR THE NORMAL MAINTENANCE OF THE EXISTING TRAFFIC SIGNALS) WITHIN THE PROJECT LIMITS. COST OF REARRANGING TRAFFIC SIGNAL HEADS AND MAINTAINING TRAFFIC SIGNALS TO BE INCLUDED IN THE BID.
 - CONTRACTOR TO MAINTAIN ACCESS TO RESIDENCES AND BUSINESSES ALONG THE PROJECT BY NORMAL MEANS AND METHODS, I.E. TEMPORARY STEEL PLATES, LIMEROCK, ETC. CONTRACTOR IS TO SUBMIT A PROPOSED METHOD OF MAINTAINING ACCESS TO THESE PROPERTIES TO ENGINEER FOR REVIEW PRIOR TO INSTALLATION. ALL COSTS WITH MAINTAINING ACCESS TO BE INCLUDED IN THE BID M.O.T. PAY ITEM.
 - M.O.T TRANSITIONS AND TEMPORARY INTERSECTION CROSSOVERS WHERE CONSTRUCTION HAS CAUSED GRADE DIFFERENCES BETWEEN THE EXISTING AND NEW ROADWAYS SHALL BE CONSTRUCTED USING 1:20 SLOPE TO ACCOMMODATE VEHICULAR TRAFFIC FROM ANY DIRECTION. WORK SHALL BE DONE WITH ASPHALTIC CONCRETE TYPE "S" AND SHALL INCLUDE ASPHALT SLOPE REMOVAL WHEN NO LONGER NEEDED. ALL COSTS WITH MAINTAINING CROSSOVER SLOPE GRADE AND REMOVAL, TO BE INCLUDED IN THE BID.
 - CONTRACTOR SHALL MAINTAIN A CONTINUOUS PEDESTRIAN WAY ON ONE SIDE OF THE ROADWAY AT ALL TIMES. PEDESTRIAN WAY SHALL HAVE SMOOTH SURFACE AND BE GRADED ON CONFORMANCE WITH THE AMERICAN DISABILITIES ACT (ADA) REQUIREMENTS. ALL COSTS TO BE INCLUDED IN THE BID.
 - AT THE END OF EACH WORK DAY OR WHENEVER THE WORK ZONE BECOMES INACTIVE, ANY DROP-OFF ADJACENT TO THE PEDESTRIAN, BICYCLE OR WHEELCHAIR TRAVEL PATHS SHALL BE BACKFILLED FLUSH THE TRAVEL PATH OR SHALL BE PROTECTED WITH BARRICADES, TEMPORARY BARRIER WALL, OR APPROVED HANDRAIL COST TO BE INCLUDED IN THE BID.
 - PEDESTRIAN, BICYCLE AND WHEELCHAIR TRAFFIC SHALL BE GUIDED AND MAINTAINED USING APPROVED WARNING LIGHTS, SIGNING AND CHANNELIZATION DEVICES. SUCH CONTROL DEVICES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH FDOT SPECIFICATIONS AND MUTCD SECTIONS ON WORK ZONE TRAFFIC CONTROL. COST TO BE INSTALLED IN THE BID.
 - IF THERE ARE UNEVEN PAVEMENT SURFACES DURING CONSTRUCTION, THE VERTICAL "DROP OFF" DIFFERENCE SHALL NOT BE MORE THAN 3 INCHES IN HEIGHT BETWEEN THE ADJACENT SURFACES.
 - CONTRACTOR SHALL MAINTAIN ACCESS TO RESIDENCES AND BUSINESSES FOR GARBAGE/SANITATION PICK-UP ALONG THE PROJECT. ALL COSTS WITH MAINTAINING ACCESS TO BE INCLUDED IN THE BID.
 - CONTRACTOR SHALL MAINTAIN CURRENT LEVELS OF ROADWAY LIGHTING WITHIN THE PROJECT LIMITS AT ALL TIMES THROUGHOUT THE DURATION OF THE PROJECT. ALL COSTS WITH MAINTAINING LIGHTING TO BE INCLUDED IN THE BID.
- THE FOLLOWING ITEMS ARE NOT REVIEWED OR ACCEPTED BY BROWARD COUNTY:
- BROWARD COUNTY TRAFFIC ENGINEERING DIVISION'S REVIEW DOES NOT INCLUDE A REVIEW AND ACCEPTANCE OF THE PROJECT'S DESIGN OR OPERATION. THESE ITEMS ARE TO BE REVIEWED AND APPROVED BY THE TOWN ENGINEER.
 - BROWARD COUNTY TRAFFIC ENGINEERING DIVISION DOES NOT REVIEW AND APPROVE, OR INSPECT AND ACCEPT THE FOLLOWING ITEMS FOR MAINTENANCE: PAVEMENT MARKINGS ON OR ADJACENT TO PAVEMENT BRICKS, PAINTED ASPHALT, STAMPED ASPHALT OR PAVEMENT MARKINGS MADE OF PAVEMENT BRICKS, RAISED INTERSECTIONS AND RELATED MARKINGS AND SIGNING, UN-WARRANTED MID-BLOCK CROSSWALKS AND RELATED MARKINGS AND SIGNING, UN-WARRANTED CROSSWALKS AND RELATED MARKINGS AND SIGNING, PAINTED/DECORATIVE CROSSWALKS, RAISED CROSSWALKS AND RELATED MARKINGS AND SIGNING, ADVANCED WARNING PAVEMENT MARKINGS FOR SPEED TABLES, BLINKER SIGNS, RECTANGULAR RAPID FLASHER BEACONS AND RELATED MARKINGS AND SIGNING, ON-STREET PARKING AND RELATED MARKINGS AND SIGNING, IN-ROAD LIGHTING AND RELATED MARKINGS AND SIGNING, GREEN BIKE LANES, FLEXIBLE DELINEATORS, DECORATIVE SIGNS AND DECORATIVE SIGN POSTS, PLANTERS, ON-SITE PAVEMENT MARKINGS AND SIGNING, OFF-SITE PAVEMENT MARKINGS AND SIGNING IN RIGHT-OF-WAY THAT IS NOT DEDICATED FOR PUBLIC USE, SIDEWALK WORK OR ASPHALT WORK.
 - THE TOWN ENGINEER IS RESPONSIBLE FOR THE REVIEW AND APPROVAL OF THE DESIGN AND OPERATION OF THE PROJECT, AND FOR THE INSPECTION AND ACCEPTANCE OF THE FOLLOWING ITEMS THAT WILL BE MAINTAINED BY THE TOWN: PAVEMENT MARKINGS ON OR ADJACENT TO PAVEMENT BRICKS, PAINTED ASPHALT, STAMPED ASPHALT OR PAVEMENT MARKINGS MADE OF PAVEMENT BRICKS, PAINTED ASPHALT, RAISED INTERSECTIONS AND RELATED MARKINGS MADE OF PAVEMENT BRICKS, PAVEMENT MARKINGS ON OR ADJACENT TO PAINTED ASPHALT, RAISED INTERSECTIONS AND RELATED MARKINGS AND SIGNING, UN-WARRANTED MID-BLOCK CROSSWALKS AND RELATED MARKINGS AND SIGNING, UN-WARRANTED CROSSWALKS AND RELATED MARKINGS AND SIGNING, PAINTED/DECORATIVE CROSSWALKS, RAISED CROSSWALKS AND RELATED MARKINGS AND SIGNING, ADVANCED WARNING PAVEMENT MARKINGS FOR SPEED TABLES, BLINKER SIGNS, RECTANGULAR RAPID FLASHER BEACONS AND RELATED MARKINGS AND SIGNING, ON-STREET PARKING AND RELATED MARKINGS AND SIGNING, IN-ROAD LIGHTING AND RELATED MARKINGS AND SIGNING, GREEN BIKE LANES, FLEXIBLE DELINEATORS, DECORATIVE SIGNS AND DECORATIVE SIGN POSTS, PLANTERS, ON-SITE PAVEMENT MARKINGS AND SIGNING, OFF-SITE PAVEMENT MARKINGS AND SIGNING IN RIGHT-OF-WAY THAT IS NOT DEDICATED FOR PUBLIC USE, SIDEWALK WORK AND ASPHALT WORK.
 - THE BROWARD COUNTY TRAFFIC ENGINEERING DIVISION (BCTED) ONLY REVIEWS, INSPECTS, AND MAINTAINS PAVEMENT MARKINGS AS NOTED IN THE PLAN TO BE "MAINTAINED BY COUNTY (OR BCTED)".
 - BCTED ONLY REVIEWS, INSPECTS, AND MAINTAINS SIGNS BEING RECOGNIZED BY THE FEDERAL HIGHWAY ADMINISTRATION PUBLICATION ENTITLED MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND/OR THE FLORIDA DEPARTMENT OF TRANSPORTATION WITHIN PUBLIC RIGHT-OF-WAY.

NO.	DATE	REVISIONS	BY

Kimley»Horn

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PHONE: 954-535-5100 FAX: 954-739-2247
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STEPHANO F. VIOLA
FL LICENSE NUMBER 74655
DATE: 10/21/2020



KHA PROJECT	DATE	SCALE	DESIGNED BY	DRAWN BY	CHECKED BY
143221000	APRIL 2020	AS SHOWN	MM	AL	MM

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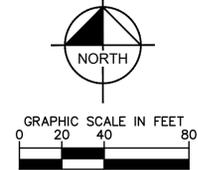
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SOUTHWEST RANCHES
2020 TSDOR
PREPARED FOR
TOWN OF SOUTHWEST RANCHES
TOWN OF SOUTHWEST RANCHES FL

GENERAL NOTES

LUPO LANE & SW 134TH AVE

SW 133RD AVE



LEGEND

- PROPERTY LINE
- MILLING AND RESURFACING LIMITS (1" MIN.) (SEE DETAIL SHEET C500.1)
- MILLING AND RESURFACING LIMITS (2" MIN.) (SEE DETAIL SHEET C500.1)
- PARTIAL PAVEMENT RESTORATION SAWCUT, REMOVE ASPHALT, REWORK MINIMUM 4" OF LIMEROCK BASE, AND INSTALL MIN. 1" ASPHALT PRIOR TO ASPHALT OVERLAY.
- FULL PAVEMENT RESTORATION. SAWCUT, REMOVE ASPHALT, REWORK MIN. 8" OF LIMEROCK BASE, AND INSTALL MIN. 1" ASPHALT PRIOR TO ASPHALT OVERLAY
- LIMITS OF BRUSH CLEARING
- PROP. SWALE RESTORATION
- CONTRACTOR TO CLEAR 2' WIDE SECTION OF SWALE AREA ADJACENT TO ROADWAY AND REGRADE TO ALLOW POSITIVE DRAINAGE (2% MIN.) OFF OF ROADWAY

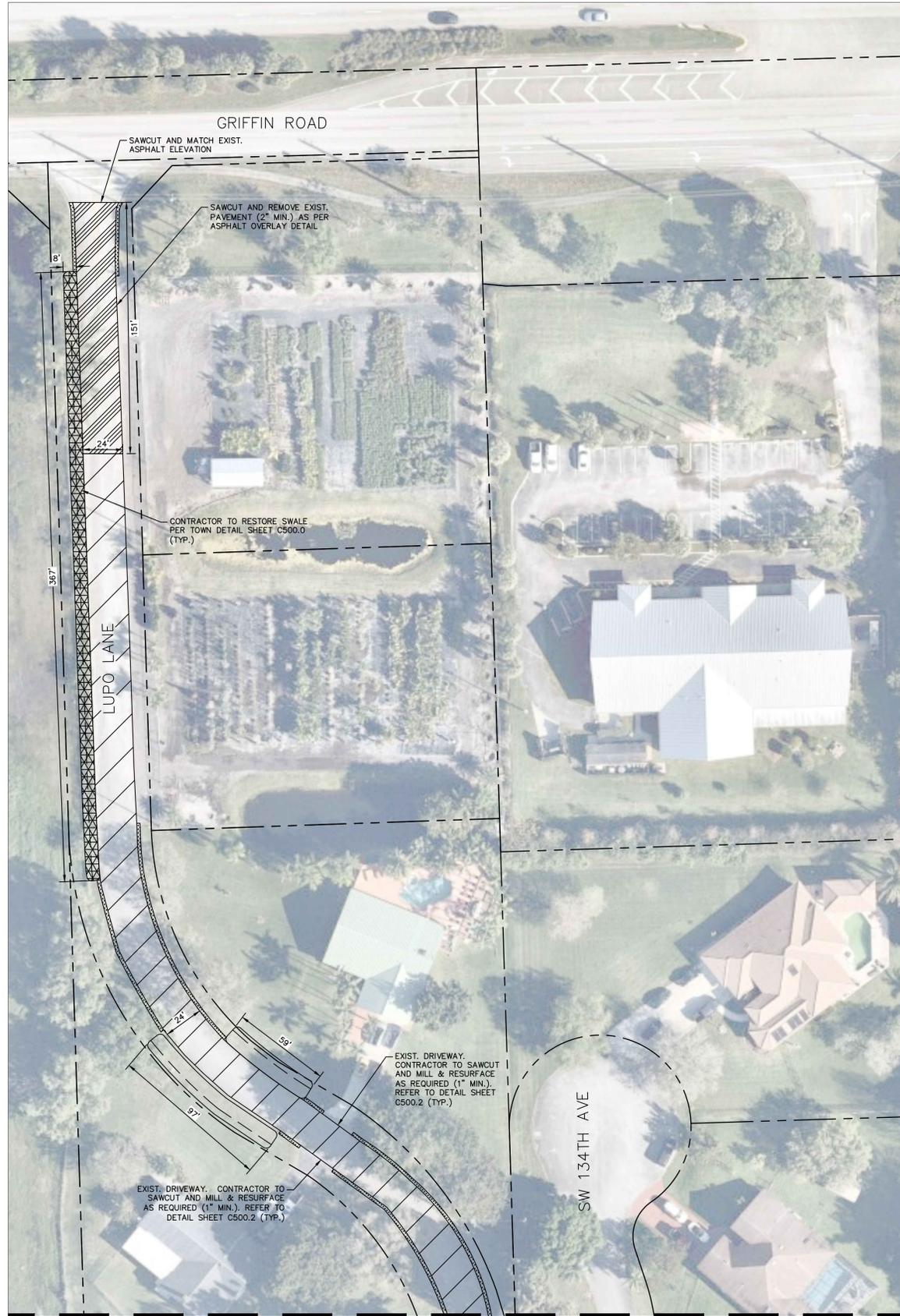
CONTRACTOR NOTES:

1. CONTRACTOR TO PERFORM SITE VISIT PRIOR TO BID SUBMITTAL FOR THE PROJECT.
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3. CONTRACTOR TO VERIFY LOCATION OF ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION, CONTRACTOR TO NOTIFY ENGINEER OF ANY CONFLICTS.
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5. ALL EXISTING UTILITIES, INCLUDING BUT NOT LIMITED TO, DRAINAGE CLEANOUTS, WATER METERS, ELECTRICAL METERS, AND IRRIGATION MAINS, IMPACTED BY PROPOSED IMPROVEMENTS SHALL BE MODIFIED/RELOCATED AS NECESSARY. CONTRACTOR TO COORDINATE WITH UTILITY COMPANY DIRECTLY.
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11. ALL CRACKS IN PAVEMENT SHALL BE SEALED BEFORE FINAL PAVING. CONTRACTOR TO COORDINATE WITH THE TOWN OF SOUTHWEST RANCHES ON REQUIRED SEALANT.
12. CONTRACTOR TO ROOT PRUNE TREES AND REMOVE VEGETATION ALONG ROADWAYS TO RESTORE SWALE AS PER TOWN DETAIL SHEET C500.0.
13. CONTRACTOR TO CONSTRUCT SWALE AREA, REGRADE AND RESOD PER TOWN STANDARDS (REFER TO SHEET C500.0, 8-FT MINIMUM WIDTH). CONTRACTOR TO CONFIRM SWALE CONSTRUCTION WILL NOT IMPACT EXISTING TO REMAIN CONDITIONS (INCLUDING EXISTING MAILBOXES, TREES, FENCES, UTILITY POLES, AND OTHER UTILITY INFRASTRUCTURE).
14. CONTRACTOR TO PROTECT EXISTING TREES DURING CONSTRUCTION PER FDOT INDEX 544.
15. NO EXISTING TREES SHALL BE REMOVED UNLESS OTHERWISE SPECIFIED. SHOULD TREE REMOVAL/RELOCATION BE REQUIRED, CONTRACTOR TO OBTAIN ALL REQUIRED PERMITS.
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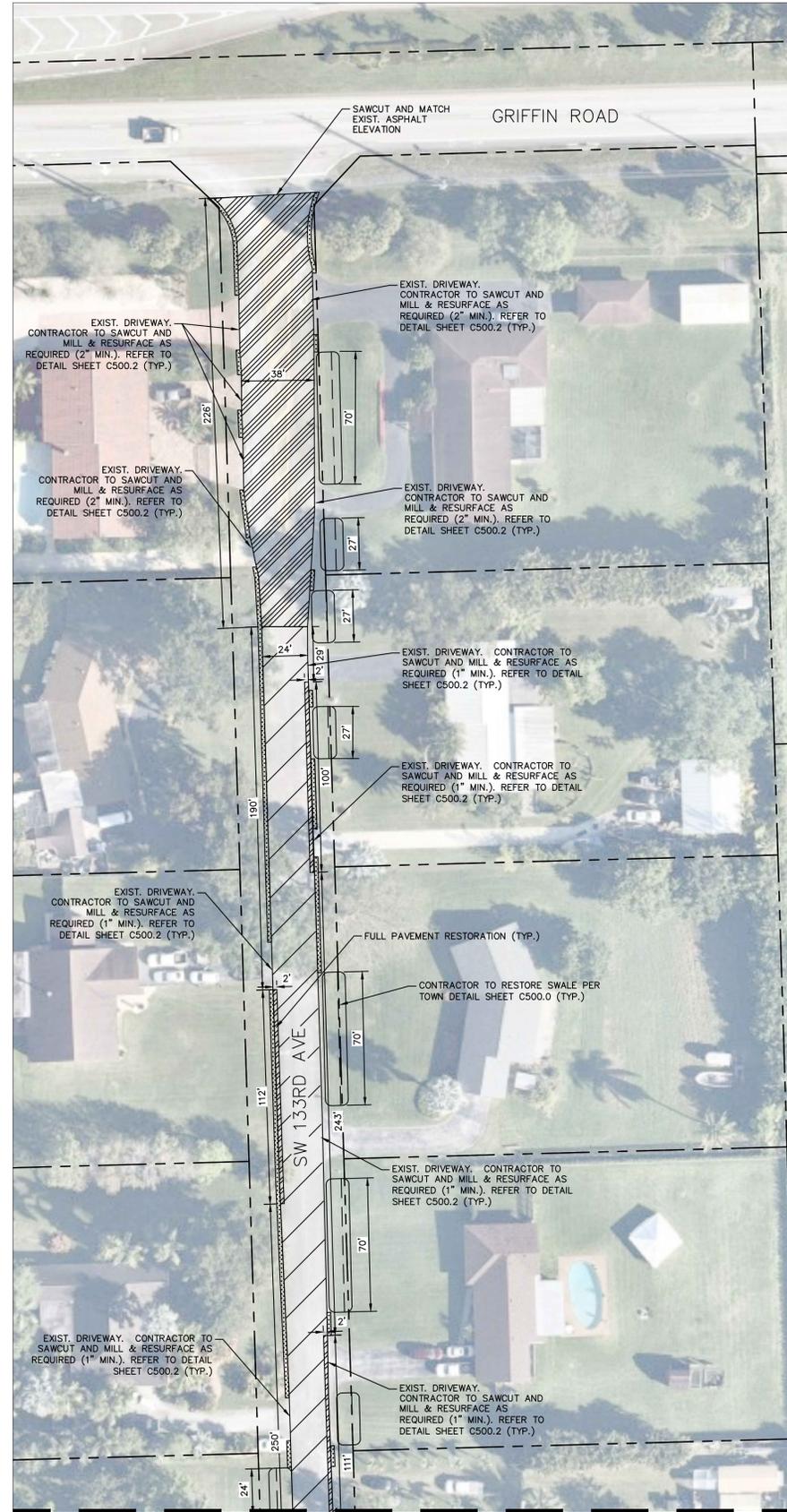


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MATCH LINE B-B
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LICENSED PROFESSIONAL	STEFANO F. VIOLA
KHA PROJECT	143221000
DATE	APRIL 2020
SCALE	AS SHOWN
DESIGNED BY	MM
DRAWN BY	AL
CHECKED BY	MM
DATE	10/21/2020

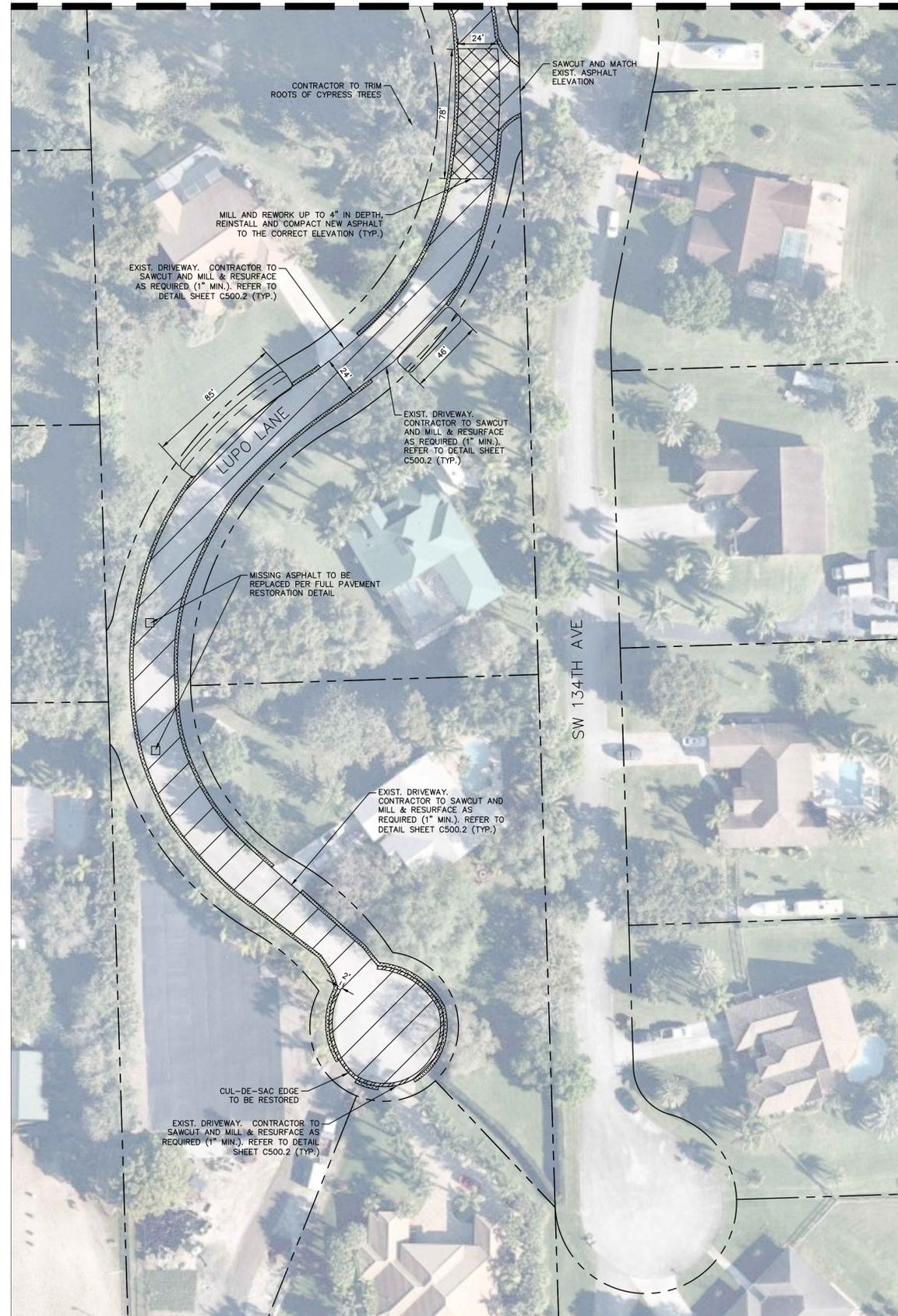
ENGINEERING PLAN

SOUTHWEST RANCHES
 2020 TSDOR
 PREPARED FOR
 TOWN OF SOUTHWEST RANCHES
 TOWN OF SOUTHWEST RANCHES FL

SHEET NUMBER
C300.0

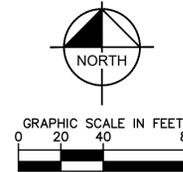
LUPO LANE & SW 134TH AVE

MATCH LINE A-A
SEE SHEET C300.0 FOR CONTINUATION



SW 133RD AVE

MATCH LINE B-B
SEE SHEET C300.0 FOR CONTINUATION



LEGEND

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LICENSED PROFESSIONAL	STEFANO F. VIOLA
KHA PROJECT	143221000
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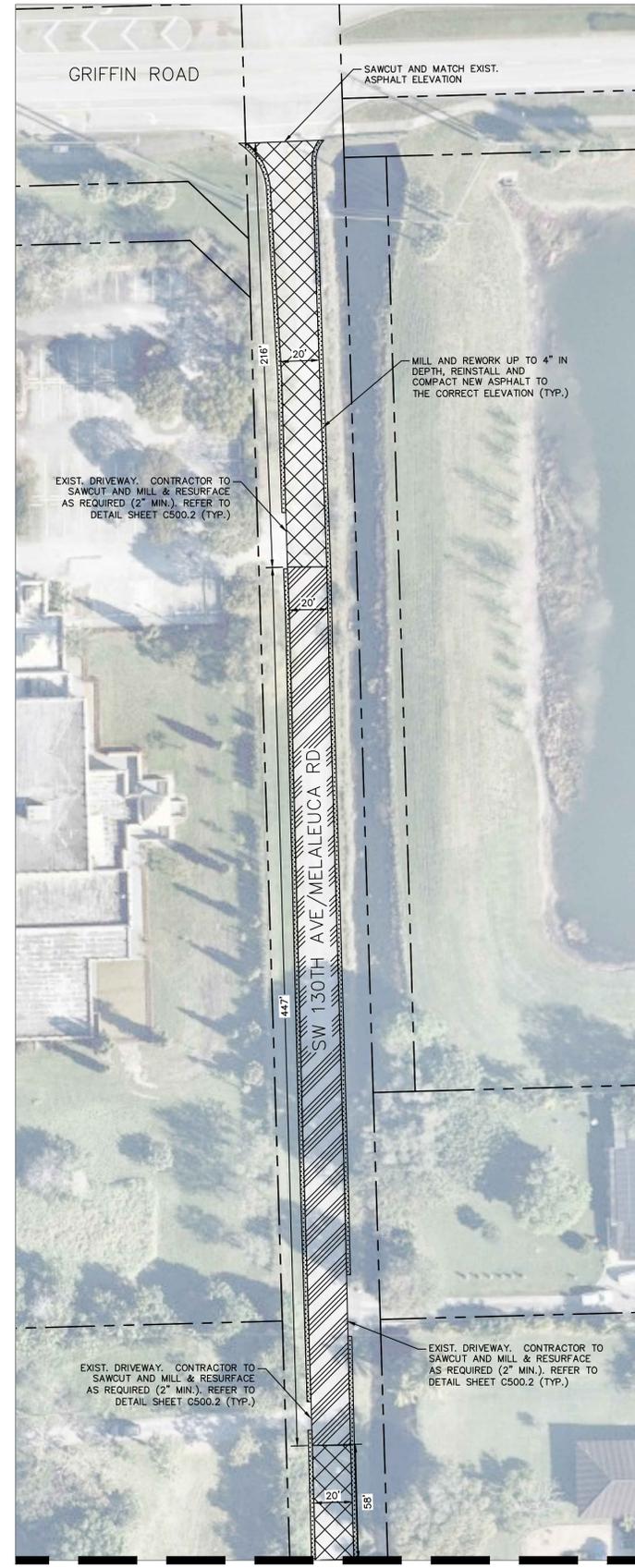
ENGINEERING PLAN

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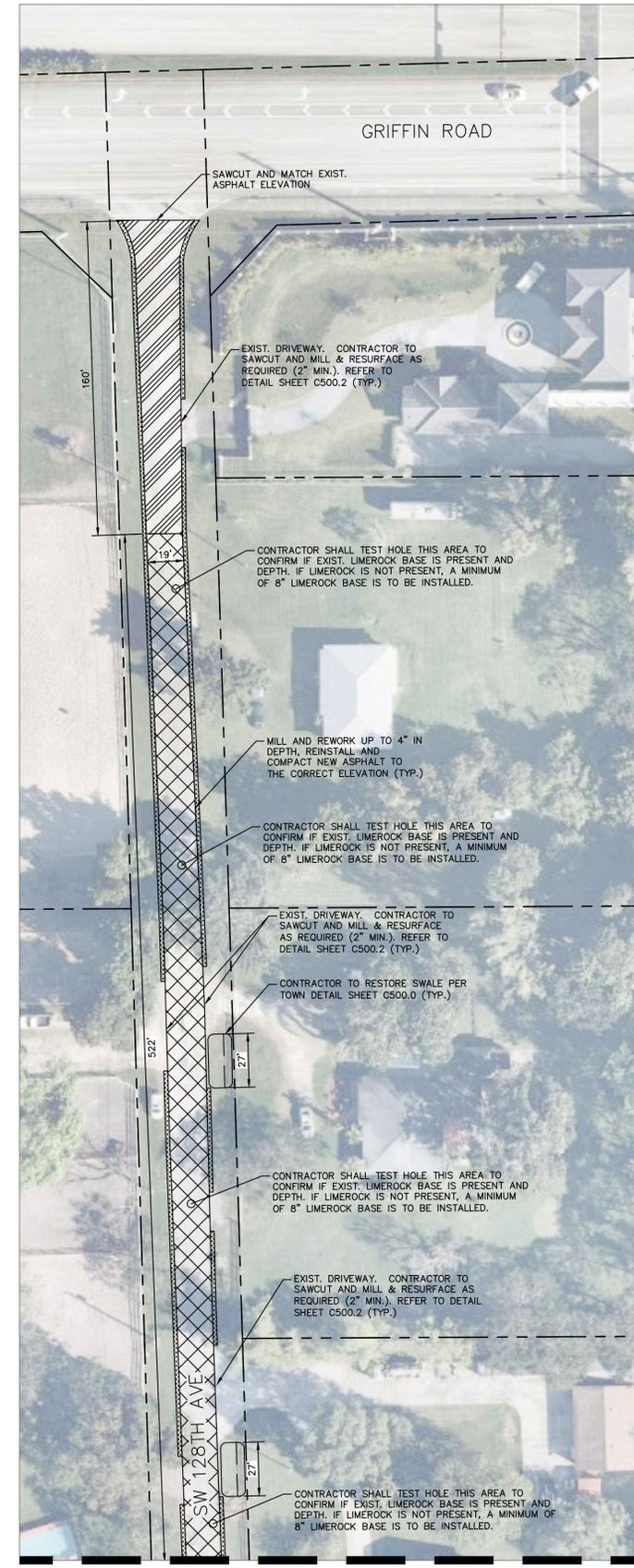
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SW 130TH AVE

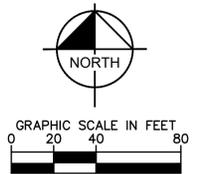


MATCH LINE C-C
 SEE SHEET C300.3 FOR CONTINUATION

SW 128TH AVE



MATCH LINE D-D
 SEE SHEET C300.3 FOR CONTINUATION



LEGEND

- PROPERTY LINE
- MILLING AND RESURFACING LIMITS (1" MIN.) (SEE DETAIL SHEET C500.1)
- MILLING AND RESURFACING LIMITS (2" MIN.) (SEE DETAIL SHEET C500.1)
- PARTIAL PAVEMENT RESTORATION SAWCUT, REMOVE ASPHALT, REWORK MINIMUM 4" OF LIMEROCK BASE, AND INSTALL MIN. 1" ASPHALT PRIOR TO ASPHALT OVERLAY.
- FULL PAVEMENT RESTORATION. SAWCUT, REMOVE ASPHALT, REWORK MIN. 8" OF LIMEROCK BASE, AND INSTALL MIN. 1" ASPHALT PRIOR TO ASPHALT OVERLAY
- LIMITS OF BRUSH CLEARING
- PROP. SWALE RESTORATION
- CONTRACTOR TO CLEAR 2' WIDE SECTION OF SWALE AREA ADJACENT TO ROADWAY AND REGRADE TO ALLOW POSITIVE DRAINAGE (2% MIN.) OFF OF ROADWAY

CONTRACTOR NOTES:

1. CONTRACTOR TO PERFORM SITE VISIT PRIOR TO BID SUBMITTAL FOR THE PROJECT.
2. CONTRACTOR TO OBTAIN ENGINEERING PERMIT.
3. CONTRACTOR TO VERIFY LOCATION OF ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION. CONTRACTOR TO NOTIFY ENGINEER OF ANY CONFLICTS.
4. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO TAKE THE NECESSARY PRECAUTIONS TO ENSURE PROPER SAFETY AND WORKMANSHIP WHEN WORKING IN THE VICINITY OF EXISTING UTILITY LINES.
5. ALL EXISTING UTILITIES, INCLUDING BUT NOT LIMITED TO, DRAINAGE CLEANOUTS, WATER METERS, ELECTRICAL METERS, AND IRRIGATION MAINS, IMPACTED BY PROPOSED IMPROVEMENTS SHALL BE MODIFIED/RELOCATED AS NECESSARY. CONTRACTOR TO COORDINATE WITH UTILITY COMPANY DIRECTLY.
6. ELEVATION OF EXISTING UTILITIES SHALL BE ADJUSTED AS REQUIRED.
7. CONTRACTOR TO MAINTAIN DRAINAGE FLOW DURING AND AFTER CONSTRUCTION.
8. CONTRACTOR TO MATCH EXIST. ELEVATIONS UNLESS OTHERWISE NOTED ON PLANS.
9. ALL ASPHALT TO BE REMOVED SHALL BE SAW CUT ADJACENT TO REMAINING IMPROVEMENTS.
10. ALL AREAS DAMAGED BY THE CONTRACTOR, INCLUDING BUT NOT LIMITED TO PAVEMENT MARKINGS, ASPHALT, SWALE, SOB, SIDEWALK, GUTTER, CURBING, DRIVEWAYS, MAILBOXES, AND UTILITIES (INCLUDING IRRIGATION) SHALL BE RESTORED, AT THE CONTRACTOR'S EXPENSE, TO ORIGINAL CONDITION.
11. ALL CRACKS IN PAVEMENT SHALL BE SEALED BEFORE FINAL PAVING. CONTRACTOR TO COORDINATE WITH THE TOWN OF SOUTHWEST RANCHES ON REQUIRED SEALANT.
12. CONTRACTOR TO ROOT PRUNE TREES AND REMOVE VEGETATION ALONG ROADWAYS TO RESTORE SWALE AS PER TOWN DETAIL SHEET C500.0.
13. CONTRACTOR TO CONSTRUCT SWALE AREA. REGRADE AND RESOD PER TOWN STANDARDS (REFER TO SHEET C500.0, 8-FT MINIMUM WIDTH). CONTRACTOR TO CONFIRM SWALE CONSTRUCTION WILL NOT IMPACT EXISTING TO REMAIN CONDITIONS (INCLUDING EXISTING MAILBOXES, TREES, FENCES, UTILITY POLES, AND OTHER UTILITY INFRASTRUCTURE).
14. CONTRACTOR TO PROTECT EXISTING TREES DURING CONSTRUCTION PER FDOT INDEX 544.
15. NO EXISTING TREES SHALL BE REMOVED UNLESS OTHERWISE SPECIFIED. SHOULD TREE REMOVAL/RELOCATION BE REQUIRED, CONTRACTOR TO OBTAIN ALL REQUIRED PERMITS.
16. ALL EXISTING MAILBOXES IMPACTED BY ROADWAY RESURFACING CONSTRUCTION SHALL BE REPLACED/RESTORED TO ORIGINAL CONDITION OR BETTER AT THE CONTRACTOR'S EXPENSE.
17. CONTRACTOR TO PROVIDE SMOOTH AND CONTINUOUS GRADING DURING ASPHALT OVERLAY PROCESS TO AVOID AREAS OF STANDING WATER. THE COST SHALL BE INCLUDED IN THE ASPHALTIC CONCRETE SURFACE COURSE OVERLAY PAY ITEM.



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No.	REVISIONS	DATE	BY

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 600 NORTH PINE ISLAND ROAD, SUITE 450, PLANTATION, FL 33324
 PHONE: 954-535-5100 FAX: 954-739-2247
 WWW.KIMLEY-HORN.COM CA 00000696

LICENSED PROFESSIONAL	STEFANO F. VIOLA
KHA PROJECT	143221000
DATE	APRIL 2020
SCALE	AS SHOWN
DESIGNED BY	MM
DRAWN BY	AL
CHECKED BY	MM
DATE	10/21/2020

ENGINEERING PLAN

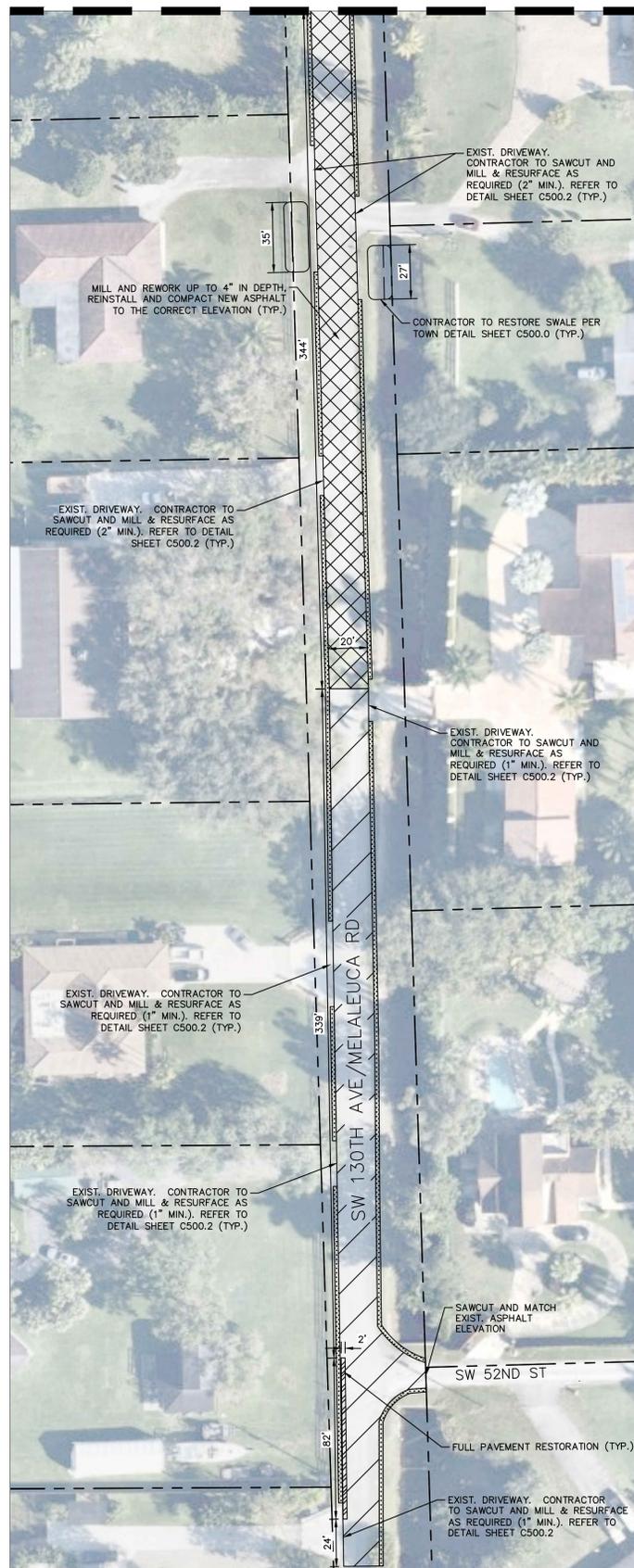
SOUTHWEST RANCHES
 2020 TSDOR
 PREPARED FOR
 TOWN OF SOUTHWEST RANCHES
 TOWN OF SOUTHWEST RANCHES FL

SHEET NUMBER
C300.2

Plotted By: Marina, Morisso Sheet Set: SOUTHWEST RANCHES 2020 TSDOR Layout: C300.3 ENGINEERING PLAN October 21, 2020 04:28:05pm K:\VTL\Civil\43 Jobs\143221000-SW Ranches TSDOR\CAD\Plan\Sheet\300.3 ENGINEERING PLAN.dwg
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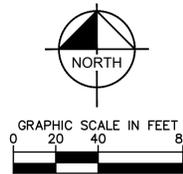
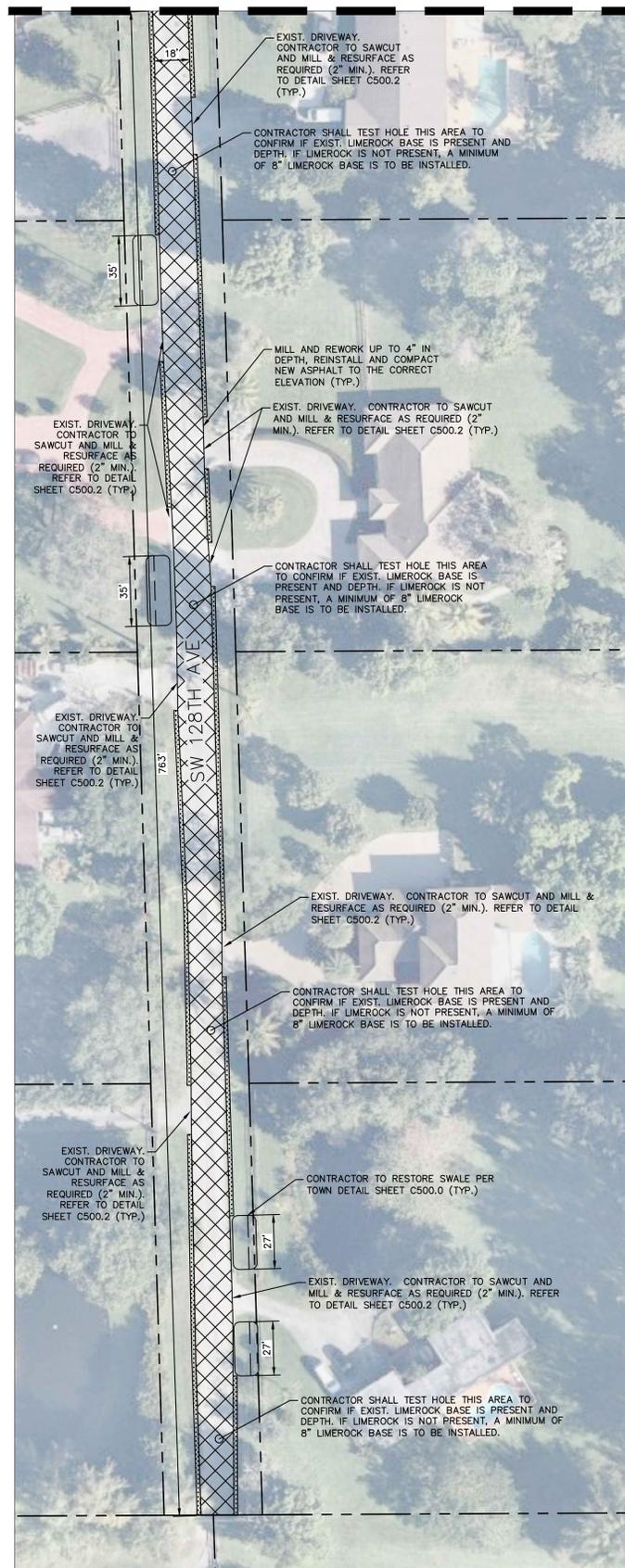
SW 130TH AVE & SW 52ND ST

MATCH LINE C-C
 SEE SHEET C300.2 FOR CONTINUATION



SW 128TH AVE

MATCH LINE D-D
 SEE SHEET C300.2 FOR CONTINUATION



LEGEND

- PROPERTY LINE
- MILLING AND RESURFACING LIMITS (1" MIN.) (SEE DETAIL SHEET C500.1)
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No.	REVISIONS	DATE	BY

Kimley»Horn

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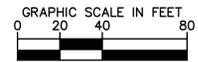
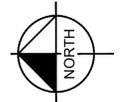
LICENSED PROFESSIONAL	STEFANO F. VIOLA
KHA PROJECT	143221000
DATE	APRIL 2020
SCALE	AS SHOWN
DESIGNED BY	MM
DRAWN BY	AL
CHECKED BY	MM
	DATE: 10/21/2020

ENGINEERING PLAN

SOUTHWEST RANCHES
 2020 TSDOR
 PREPARED FOR
 TOWN OF SOUTHWEST RANCHES
 TOWN OF SOUTHWEST RANCHES FL

SHEET NUMBER
C300.3

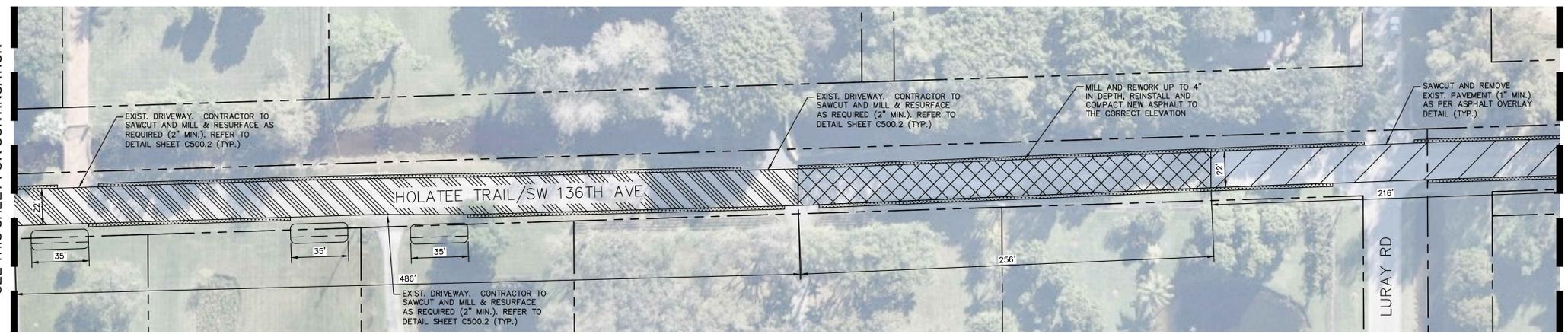
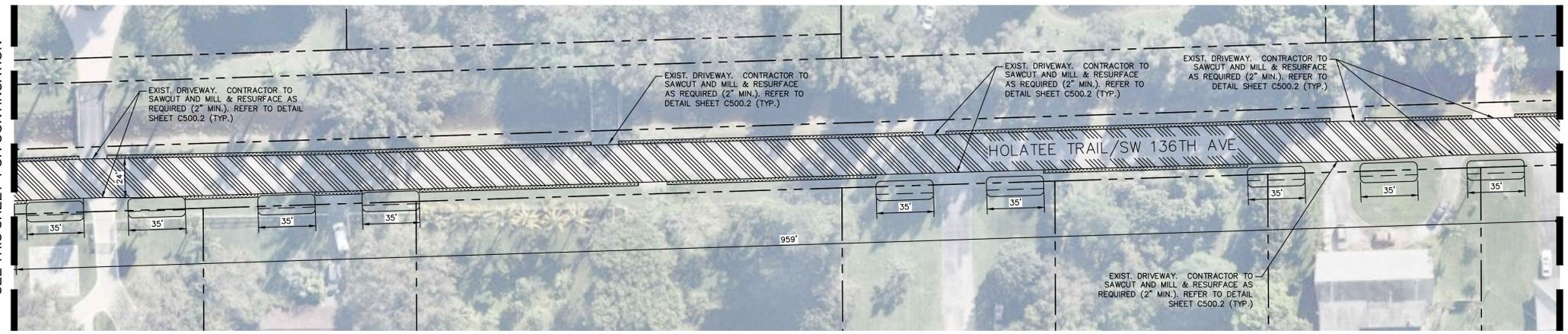
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SEE THIS SHEET FOR CONTINUATION

SEE THIS SHEET FOR CONTINUATION

SEE SHEET C300.5 FOR CONTINUATION

NO.	REVISIONS	DATE

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 PHONE: 954-535-5100 FAX: 954-739-2247
 WWW.KIMLEY-HORN.COM CA 0000696

LICENSED PROFESSIONAL	STEFANO F. VIOLA
KHA PROJECT	143221000
DATE	APRIL 2020
SCALE	AS SHOWN
DESIGNED BY	MM
DRAWN BY	AL
CHECKED BY	MM
DATE:	10/21/2020

ENGINEERING PLAN

SOUTHWEST RANCHES
 2020 TSDOR
 PREPARED FOR
TOWN OF SOUTHWEST RANCHES
 TOWN OF SOUTHWEST RANCHES FL



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SHEET NUMBER
C300.4

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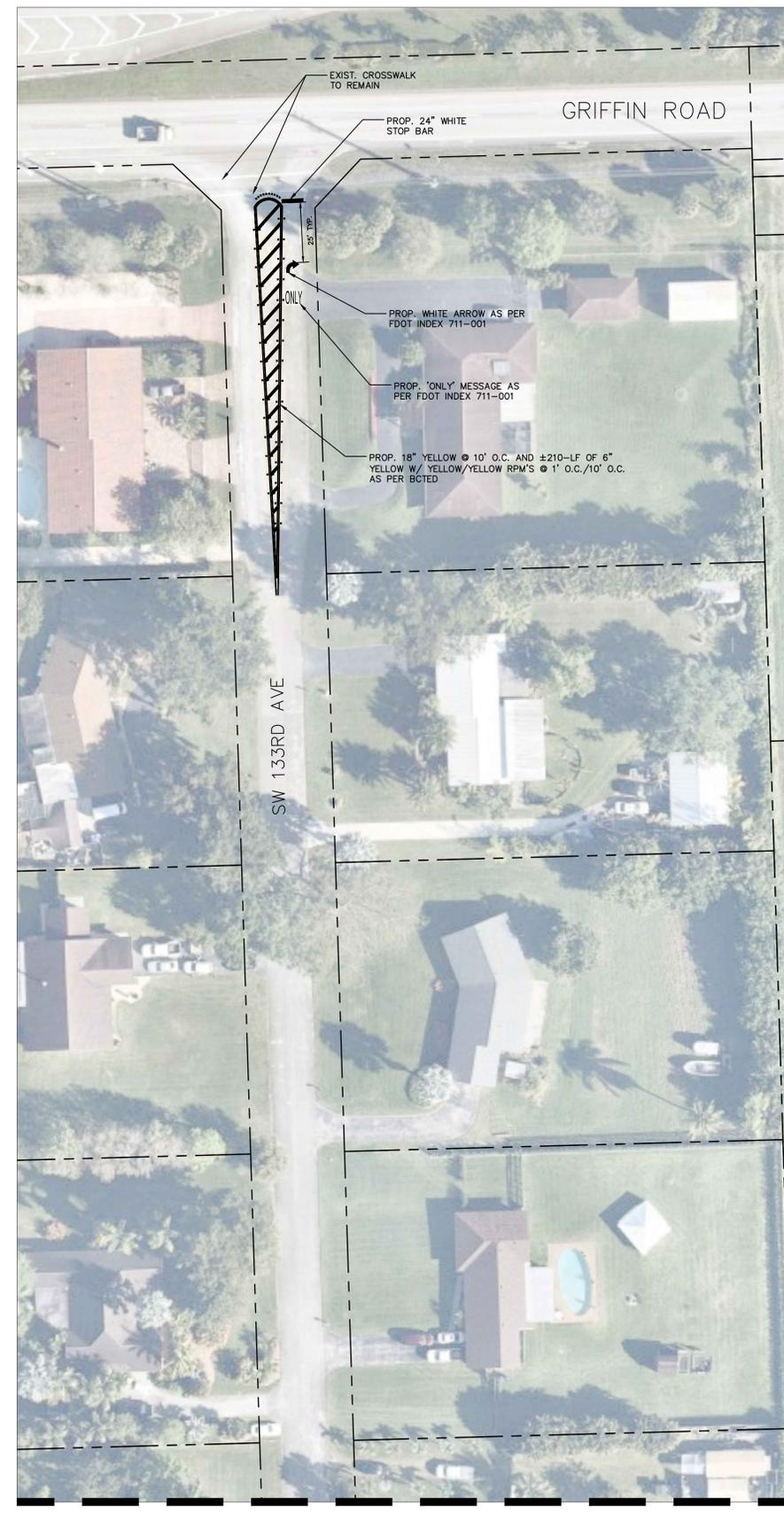
- SIGNING AND MARKING NOTES:**
1. ALL PAVEMENT MARKINGS ARE TO MEET FDOT INDEX 711-001.
 2. ALL PROPOSED SIGNS TO BE INSTALLED PER FDOT INDEX 700-010.
 3. EXISTING STRIPING/MARKING TO BE REMOVED BY WATER BLASTING ONLY.
 4. ALL EXISTING SIGNS IMPACTED BY PROPOSED WORK SHALL BE MODIFIED/RELOCATED AS NECESSARY AT THE CONTRACTOR'S EXPENSE.

LUPO LANE & SW 134TH AVE

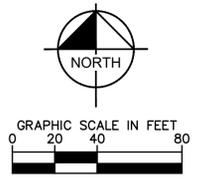


MATCH LINE J-J
SEE SHEET C400.1 FOR CONTINUATION

SW 133RD AVE



MATCH LINE K-K
SEE SHEET C400.1 FOR CONTINUATION



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SOUTHWEST RANCHES 2020 TSDOR PREPARED FOR TOWN OF SOUTHWEST RANCHES FL	SIGNING AND MARKING PLAN
SHEET NUMBER C400.0	Kimley»Horn <small>© 2020 KIMLEY-HORN AND ASSOCIATES, INC. 600 NORTH PINE ISLAND ROAD, SUITE 450, PLANTATION, FL 33324 PHONE: 954-535-5100 FAX: 954-739-2247 WWW.KIMLEY-HORN.COM CA 00000696</small>
KHA PROJECT 143221000 DATE APRIL 2020 SCALE AS SHOWN DESIGNED BY MM DRAWN BY AL CHECKED BY MM	LICENSED PROFESSIONAL STEFANO F. VIOLA FL LICENSE NUMBER 74655 DATE: 10/21/2020
REVISIONS No. _____ BY _____ DATE _____	

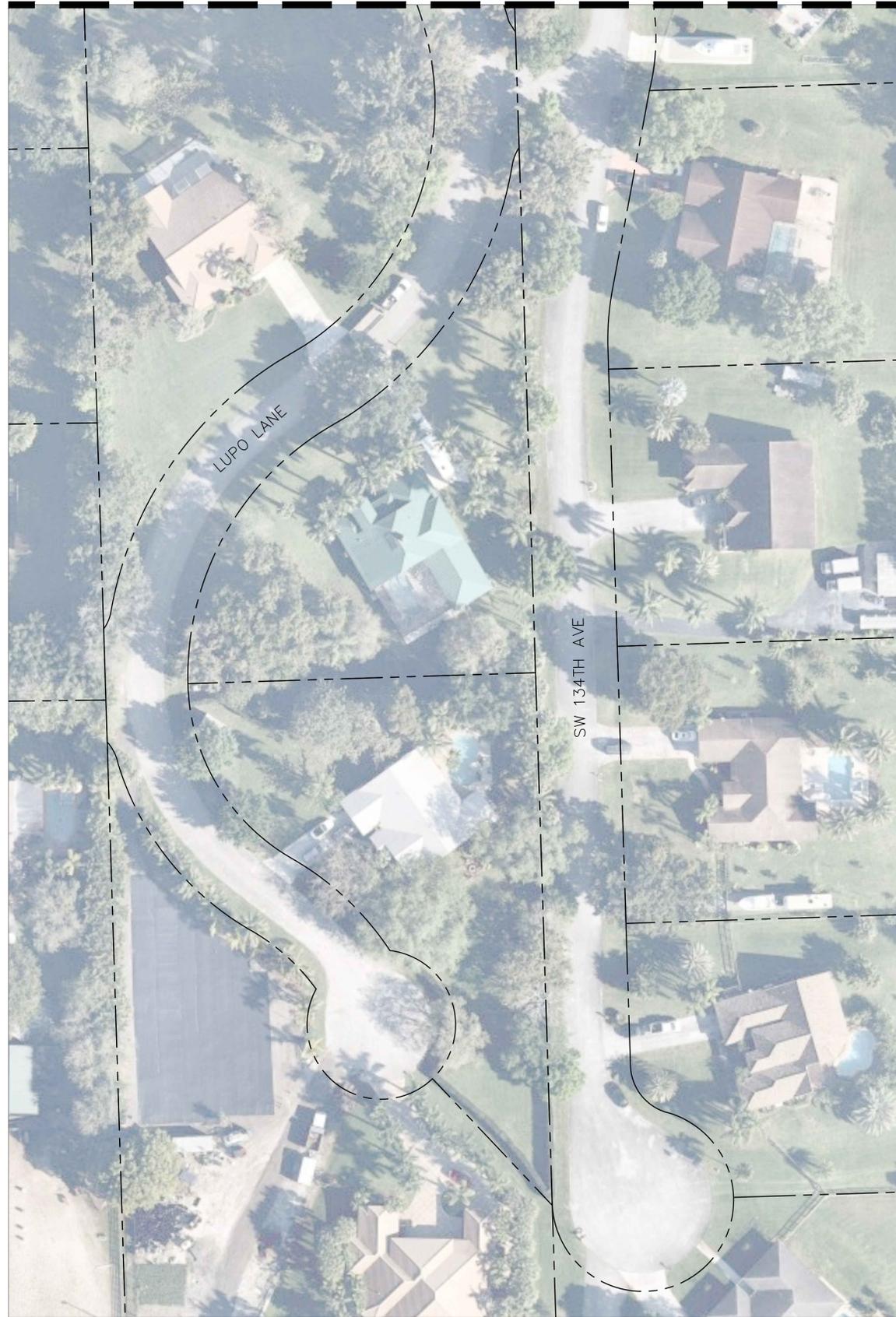
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LUPO LANE & SW 134TH AVE

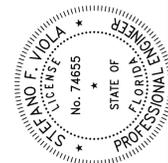
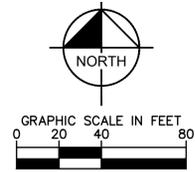
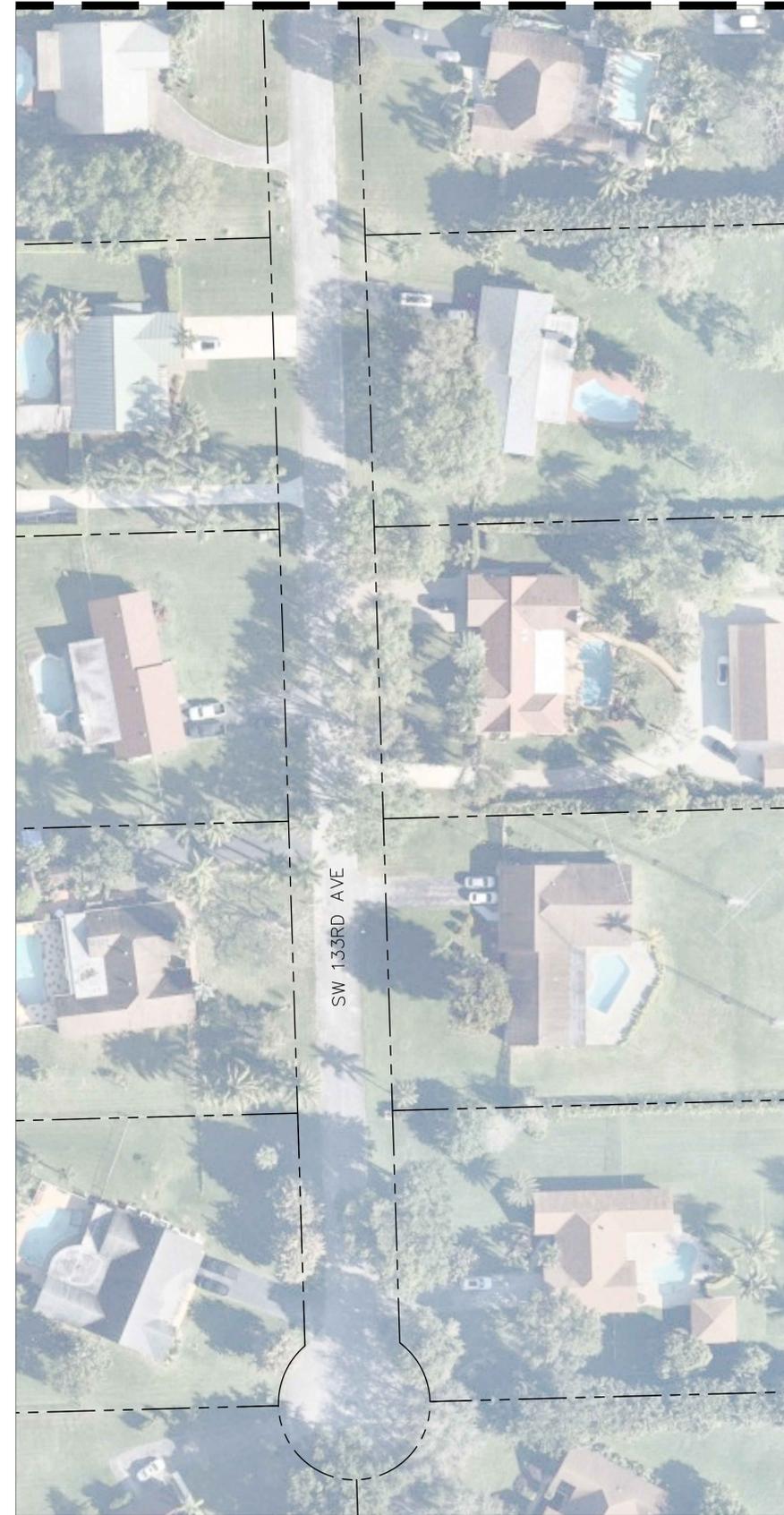
MATCH LINE J-J
 SEE SHEET C400.0 FOR CONTINUATION



NO PROPOSED PAVEMENT MARKINGS ON THIS SHEET.
 SHOWN FOR REFERENCE ONLY.

SW 133RD AVE

MATCH LINE K-K
 SEE SHEET C400.0 FOR CONTINUATION



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No.	REVISIONS	BY	DATE

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 WWW.KIMLEY-HORN.COM CA 00000696

LICENSED PROFESSIONAL	STEFANO F. VIOLA
FL LICENSE NUMBER	74655
MM DATE:	10/21/2020
KHA PROJECT	143221000
DATE	APRIL 2020
SCALE	AS SHOWN
DESIGNED BY	MM
DRAWN BY	AL
CHECKED BY	MM

SIGNING AND MARKING PLAN

SOUTHWEST RANCHES
 2020 TSDOR
 PREPARED FOR
 TOWN OF SOUTHWEST RANCHES
 TOWN OF SOUTHWEST RANCHES FL

SHEET NUMBER
C400.1

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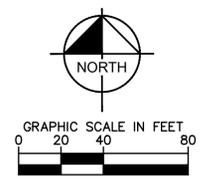
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MATCH LINE L-L
 SEE SHEET C400.3 FOR CONTINUATION



MATCH LINE M-M
 SEE SHEET C400.3 FOR CONTINUATION



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SOUTHWEST RANCHES 2020 TSDOR PREPARED FOR TOWN OF SOUTHWEST RANCHES TOWN OF SOUTHWEST RANCHES FL	SIGNING AND MARKING PLAN	KHA PROJECT 143221000 DATE APRIL 2020 SCALE AS SHOWN DESIGNED BY MM DRAWN BY AL CHECKED BY MM	LICENSED PROFESSIONAL STEFANO F. VIOLA FL LICENSE NUMBER 74655 DATE: 10/21/2020	 © 2020 KIMLEY-HORN AND ASSOCIATES, INC. 600 NORTH PINE ISLAND ROAD, SUITE 450, PLANTATION, FL 33324 PHONE: 954-535-5100 FAX: 954-739-2247 WWW.KIMLEY-HORN.COM CA 00000696	REVISIONS	No.	DATE

SHEET NUMBER
C400.2

Plotted By: Marina, Morisso - Sheet Set: SOUTHWEST RANCHES 2020 TSDOR - Layout: C400.3 SIGNING AND MARKING PLAN - October 21, 2020 - 04:26:57pm - K:\VT\Civil\143 Jobs\143221000-SW Ranches TSDOR\CAD\PlanSheets\C400.0 SIGNING AND MARKING PLAN.dwg
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SIGNING AND MARKING NOTES:

1. ALL PAVEMENT MARKINGS ARE TO MEET FDOT INDEX 711-001.
2. ALL PROPOSED SIGNS TO BE INSTALLED PER FDOT INDEX 700-010.
3. EXISTING STRIPING/MARKING TO BE REMOVED BY WATER BLASTING ONLY.
4. ALL EXISTING SIGNS IMPACTED BY PROPOSED WORK SHALL BE MODIFIED/RELOCATED AS NECESSARY AT THE CONTRACTOR'S EXPENSE.

SW 130TH AVE & SW 52ND ST

MATCH LINE L-L
 SEE SHEET C400.2 FOR CONTINUATION

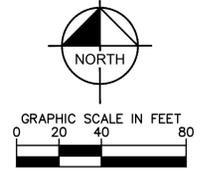


SW 128TH AVE

MATCH LINE M-M
 SEE SHEET C400.2 FOR CONTINUATION



NO PROPOSED PAVEMENT MARKINGS ON THIS SHEET.
 SHOWN FOR REFERENCE ONLY.



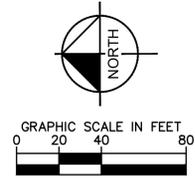
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SOUTHWEST RANCHES 2020 TSDOR PREPARED FOR TOWN OF SOUTHWEST RANCHES TOWN OF SOUTHWEST RANCHES FL	SIGNING AND MARKING PLAN		LICENSED PROFESSIONAL STEFANO F. VIOLA FL LICENSE NUMBER 74655 DATE: 10/21/2020	KHA PROJECT 143221000 DATE APRIL 2020 SCALE AS SHOWN DESIGNED BY MM DRAWN BY AL CHECKED BY MM	<p>© 2020 KIMLEY-HORN AND ASSOCIATES, INC. 600 NORTH PINE ISLAND ROAD, SUITE 450, PLANTATION, FL 33324 PHONE: 954-535-5100 FAX: 954-739-2247 WWW.KIMLEY-HORN.COM CA 00000696</p>	REVISIONS	No.	BY	DATE
	SHEET NUMBER C400.3								

Plotted By: Marina, Morisco - Sheet Set: SOUTHWEST RANCHES 2020 TSDOR - Layout: C400.5 SIGNING AND MARKING PLAN - October 21, 2020 - 04:28:11pm - K:\VTI\Civil\143 jobs\143221000-SW Ranches TSDOR\CAD\Drawings\C400.5 SIGNING AND MARKING PLAN.dwg
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SW 136TH AVE

SW 136TH AVE

SW 136TH AVE

MATCH LINE P-P
SEE SHEET C400.4 FOR CONTINUATION

MATCH LINE Q-Q
SEE THIS SHEET FOR CONTINUATION

MATCH LINE R-R
SEE THIS SHEET FOR CONTINUATION

MATCH LINE Q-Q
SEE THIS SHEET FOR CONTINUATION

MATCH LINE R-R
SEE THIS SHEET FOR CONTINUATION

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No.	REVISIONS	DATE	BY

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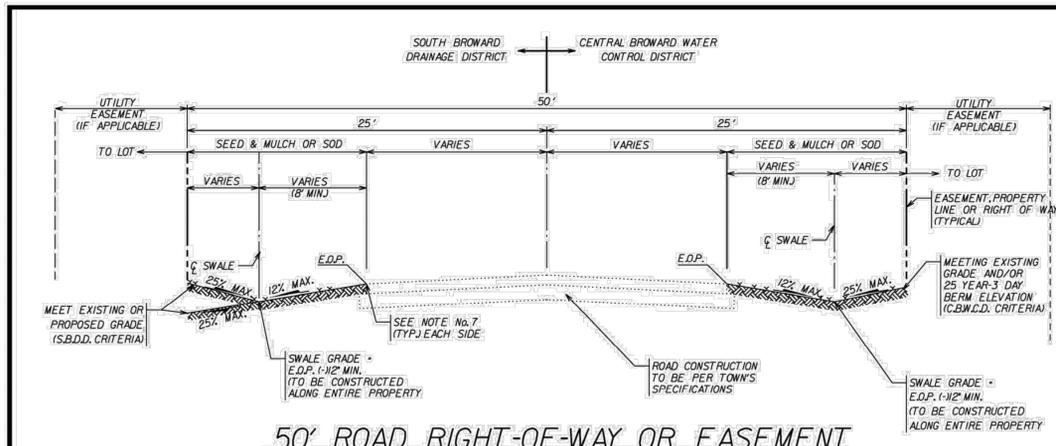
LICENSED PROFESSIONAL	STEFANO F. VIOLA
KHA PROJECT	143221000
DATE	APRIL 2020
SCALE	AS SHOWN
DESIGNED BY	MM
DRAWN BY	AL
CHECKED BY	MM
DATE	10/21/2020

SIGNING AND MARKING PLAN

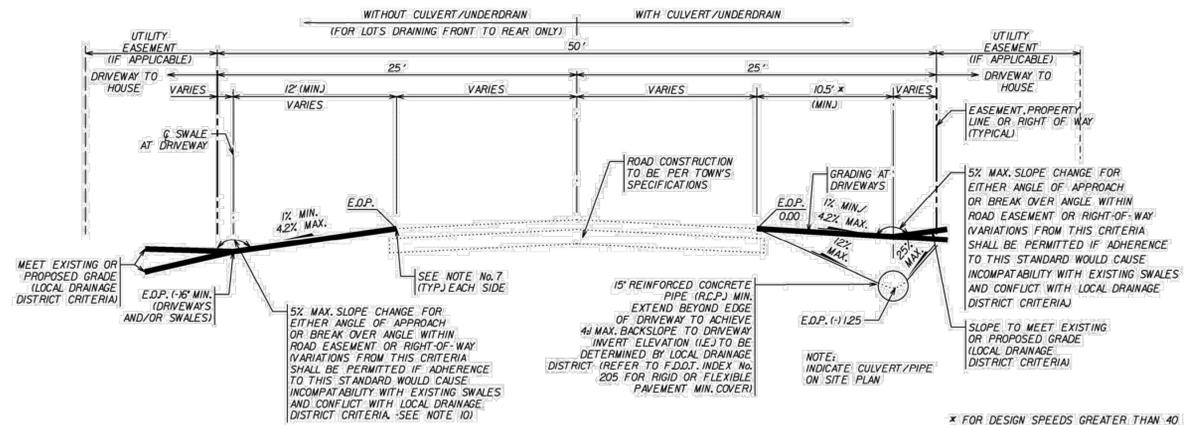
SOUTHWEST RANCHES 2020 TSDOR
 PREPARED FOR
TOWN OF SOUTHWEST RANCHES
 TOWN OF SOUTHWEST RANCHES FL

SHEET NUMBER
C400.5

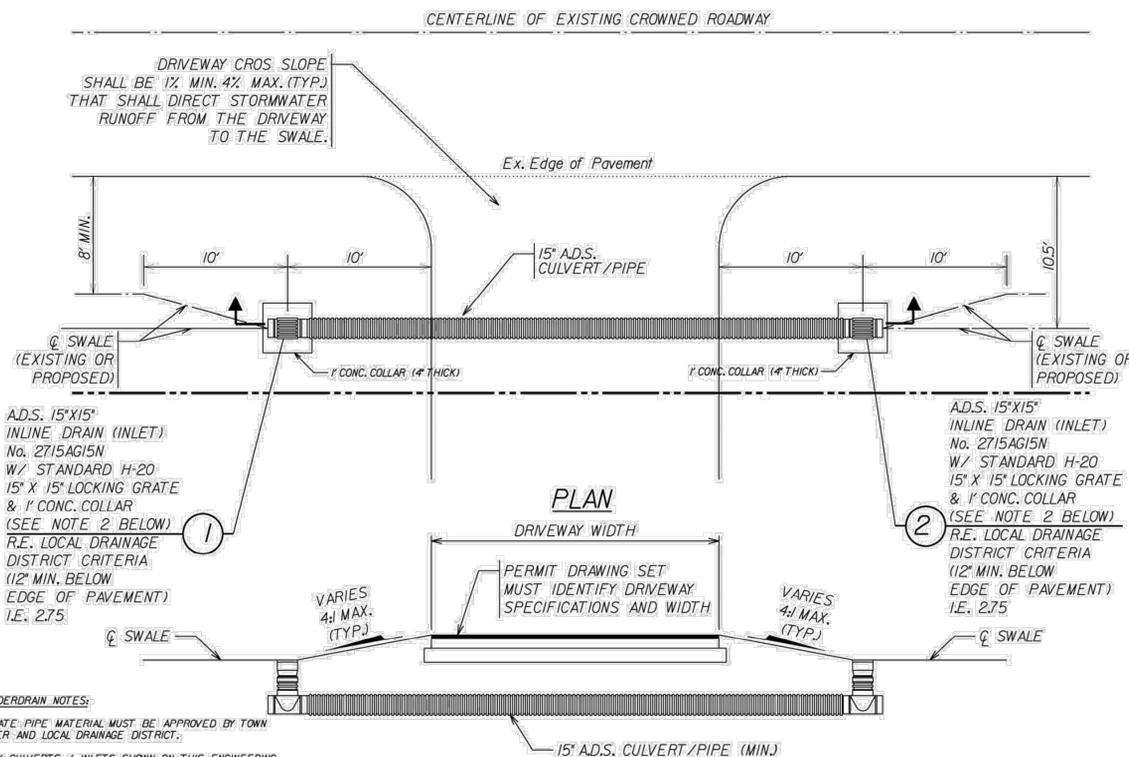
Plotted By: Marina, Morisso - Sheet Set: SOUTHWEST RANCHES 2020 TSDOR - Layout: C500.0 - Engineering Details - October 21, 2020 - 04:28:40pm - K:\VTL-Civil\143-Jobs\143221000-SW-Ranches-TSDOR\CAD\Plan\Sheet\C500.0-ENGINEERING-DETAILS.dwg
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50' ROAD RIGHT-OF-WAY OR EASEMENT SWALE SECTION PROFILE



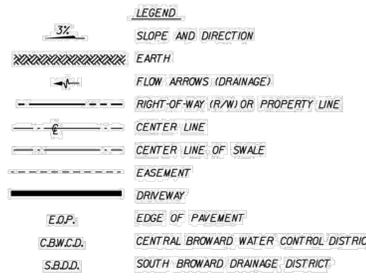
50' ROAD RIGHT-OF-WAY OR EASEMENT DRIVEWAY CROSSING SECTION PROFILE



SECTION DRIVEWAY UNDERDRAIN DETAIL

DRIVEWAY NOTES:

1. DRIVEWAYS MUST NOT ADVERSELY IMPACT APPLICANT'S PROPERTY OR ADJACENT PROPERTIES NOR INCLUDE SIGNIFICANT AMOUNT OF FILLING.
2. ALL IMPROVEMENTS MUST MEET THE REQUIREMENTS OF THE BROWARD COUNTY 'LAND DEVELOPMENT CODE', 'MINIMUM CONSTRUCTION STANDARDS FOR ROADWAYS UNDER BROWARD COUNTY JURISDICTION', AND LOCAL DRAINAGE DISTRICT CRITERIA.
3. SECTIONS SHOWN ABOVE PERTAIN TO A MINIMUM 50' R/W OR EASEMENT WIDTHS GREATER THAN 50' SHALL MEET SAME CRITERIA.
4. AT TIME OF PERMIT APPLICATION SUBMITTAL, APPLICANT MUST PROVIDE THE TOWN OF SOUTHWEST RANCHES WITH PROOF OF LEGAL ACCESS MEETING THE BROWARD COUNTY LAND DEVELOPMENT CODE, OR OBTAIN SAME PRIOR TO RECEIVING THE BUILDING PERMIT.
5. FOR LOCAL SUBDIVISION TYPE STREETS, A MAXIMUM CROSS SLOPE OF 12% AND MINIMUM CROSS SLOPE OF 3% SHALL BE REQUIRED FOR THE ROADWAY SHOULDER AND SWALE DEPTH ADJACENT TO THE ROADWAY AS SHOWN ABOVE FOR THE ENTIRE PROPERTY LIMIT.
6. FOR PROPERTIES ADJACENT TO RURAL HIGH SPEED STREETS, A CROSS SECTION IN THE SWALE BETWEEN THE ADJACENT ROADWAY AND PROPERTY SHALL BE REQUIRED CONFORMING TO THE 'MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE FOR STREETS AND HIGHWAYS' CHAPTER III CRITERIA WITH RESPECT TO SHOULDERS, ROADSIDE SLOPES, BACK SLOPES, CLEAR ZONES, GUARDRAILS, ETC. AND BROWARD COUNTY LAND DEVELOPMENT CODE, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER IN THE STATE OF FLORIDA.
7. FINISHED GRADE OF TURF / SOD SHALL BE MINIMUM 2" MAXIMUM BELOW EDGE OF PAVEMENT.
8. CONTRACTOR / OWNER TO PROVIDE DETAILS FOR DRIVEWAYS INCLUDING, BUT NOT LIMITED TO TYPE (CONCRETE, ASPHALT, PAVERS, ETC.), WIDTH, THICKNESS AND SLOPE.
9. SURFACES WITHIN R/W EASEMENT OTHER THAN ASPHALT OR PLAIN CONCRETE SHALL BE SUBJECT TO A SPECIAL MAINTENANCE / INDEMNIFICATION AGREEMENT WITH THE TOWN.
10. PRIOR TO CONSTRUCTION OF ALL DRIVEWAYS AND/OR CULVERTS/UNDERDRAINS WITHIN ROADWAY EASEMENT OR RIGHT-OF-WAY, CONTRACTOR MUST CONTACT TOWN INSPECTOR.
11. ALL CONSTRUCTION SHALL CONFORM TO TOWN'S MASTER DRAINAGE PLAN.
12. THESE DETAILS ARE MINIMUM REQUIREMENTS AND MAY OR MAY NOT BE APPLICABLE TO MASTER DRAINAGE PLANS.



- DRIVEWAY UNDERDRAIN NOTES:**
1. ALTERNATE PIPE MATERIAL MUST BE APPROVED BY TOWN ENGINEER AND LOCAL DRAINAGE DISTRICT.
 2. PIPES / CULVERTS / INLETS SHOWN ON THIS ENGINEERING DETAIL ARE MINIMUM REQUIREMENTS, AT DISCRETION OF TOWN ENGINEER AND/OR LOCAL DRAINAGE DISTRICT PIPE SIZE AND INLETS SHALL BE UPGRADED TO MEET THE REQUIREMENTS OF THE TOWN'S MASTER DRAINAGE PLAN.
 3. DRAINAGE ENDWALLS DISCHARGING INTO CANALS / WATER BODIES SHALL MEET LOCAL DRAINAGE DISTRICT REQUIREMENTS.
 4. DRAINAGE INLETS DISCHARGING INTO CANALS / WATER BODIES SHALL BE CONSTRUCTED WITH A POLLUTION RETARDANT BAFFLE.


Town of Southwest Ranches
 Engineering Department
 Town Hall • 13400 Griffin Road • Southwest Ranches, FL 33330

DRIVEWAY AND SWALE EXHIBIT FOR RESIDENTIAL LOTS

 DRAWN: WFI DATE: 3/02 SHEET
 CHECKED: WFI DATE: 3/02 DSR01

NO.	REVISIONS	DATE	BY

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 PHONE: 954-535-5100 FAX: 954-739-2247
 WWW.KIMLEY-HORN.COM CA 00000696

KHA PROJECT: 143221000
 DATE: APRIL 2020
 SCALE: AS SHOWN
 DESIGNED BY: MM
 DRAWN BY: AL
 CHECKED BY: MM
 DATE: 10/21/2020

STANDARD DETAILS

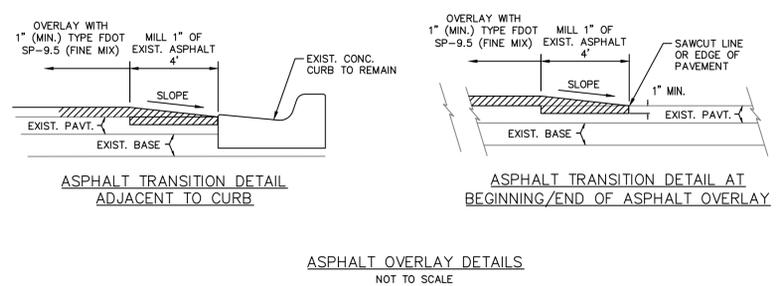
SOUTHWEST RANCHES 2020 TSDOR
 PREPARED FOR TOWN OF SOUTHWEST RANCHES
 SHEET NUMBER **C500.0**

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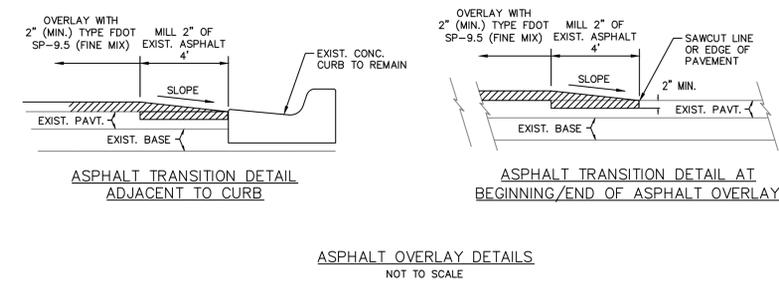
Plotted By: Marina, Morisco Sheet: SW-2020-001-ENG-DETAILS-01-Engineering-Details-2020-04-28-46ppm K:\VTL\QV\143_Jobs\143221000-SW-Ranches\TSDOR\CAD\PlanSheets\C4000-Engineering-Details.dwg
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ASPHALT OVERLAY DETAILS
NOT TO SCALE

NOTES:

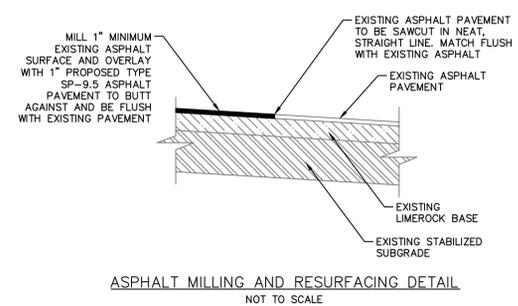
- OVERLAY WITH FDOT TYPE SP-9.5 (FINE MIX) ASPHALTIC CONCRETE SURFACE COURSE (1" MIN. THICKNESS) AS SHOWN.
- AT THE BEGINNING & END OF ASPHALT OVERLAY AND AT EDGE OF PAVEMENT ADJACENT TO CURBS, THE EXIST. PAVEMENT SHALL BE SAWCUT TO AN APPROXIMATE DEPTH OF 1" TO MAKE A CLEAN BUTT JOINT, & ENOUGH MATERIAL REMOVED FOR A SMOOTH TIE-IN AS SHOWN IN THE DETAIL. CONTRACTOR TO PROVIDE SMOOTH AND CONTINUOUS GRADING DURING ASPHALT OVERLAY PROCESS TO AVOID AREAS OF STANDING WATER. THE COST SHALL BE INCLUDED IN THE ASPHALTIC CONCRETE SURFACE COURSE OVERLAY PAY ITEM.



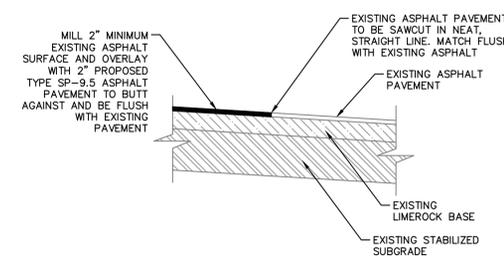
ASPHALT OVERLAY DETAILS
NOT TO SCALE

NOTES:

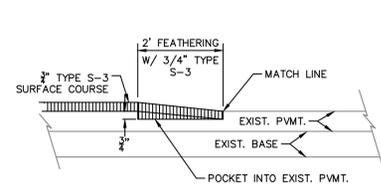
- OVERLAY WITH FDOT TYPE SP-9.5 (FINE MIX) ASPHALTIC CONCRETE SURFACE COURSE (2" MIN. THICKNESS) AS SHOWN.
- AT THE BEGINNING & END OF ASPHALT OVERLAY AND AT EDGE OF PAVEMENT ADJACENT TO CURBS, THE EXIST. PAVEMENT SHALL BE SAWCUT TO AN APPROXIMATE DEPTH OF 2" TO MAKE A CLEAN BUTT JOINT, & ENOUGH MATERIAL REMOVED FOR A SMOOTH TIE-IN AS SHOWN IN THE DETAIL. CONTRACTOR TO PROVIDE SMOOTH AND CONTINUOUS GRADING DURING ASPHALT OVERLAY PROCESS TO AVOID AREAS OF STANDING WATER. THE COST SHALL BE INCLUDED IN THE ASPHALTIC CONCRETE SURFACE COURSE OVERLAY PAY ITEM.



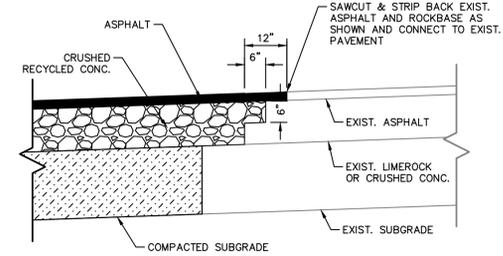
ASPHALT MILLING AND RESURFACING DETAIL
NOT TO SCALE



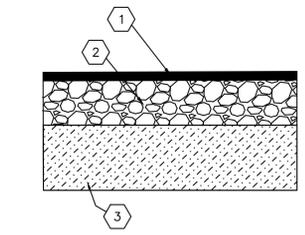
ASPHALT MILLING AND RESURFACING DETAIL
NOT TO SCALE



ASPHALT TRANSITION DETAIL AT BEGINNING OR ENDING OF ASPHALT LIFT OR NEW CONSTRUCTION
NOT TO SCALE

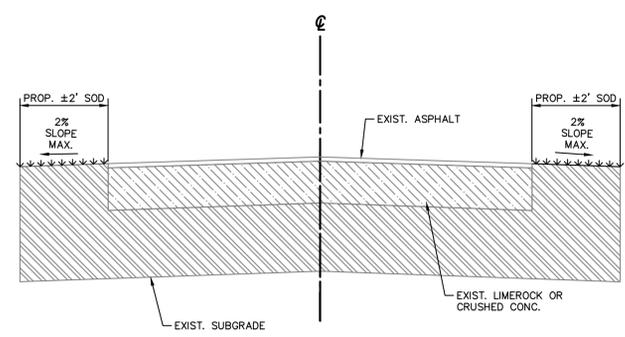


CONNECTION TO EXISTING PAVEMENT DETAIL
NOT TO SCALE



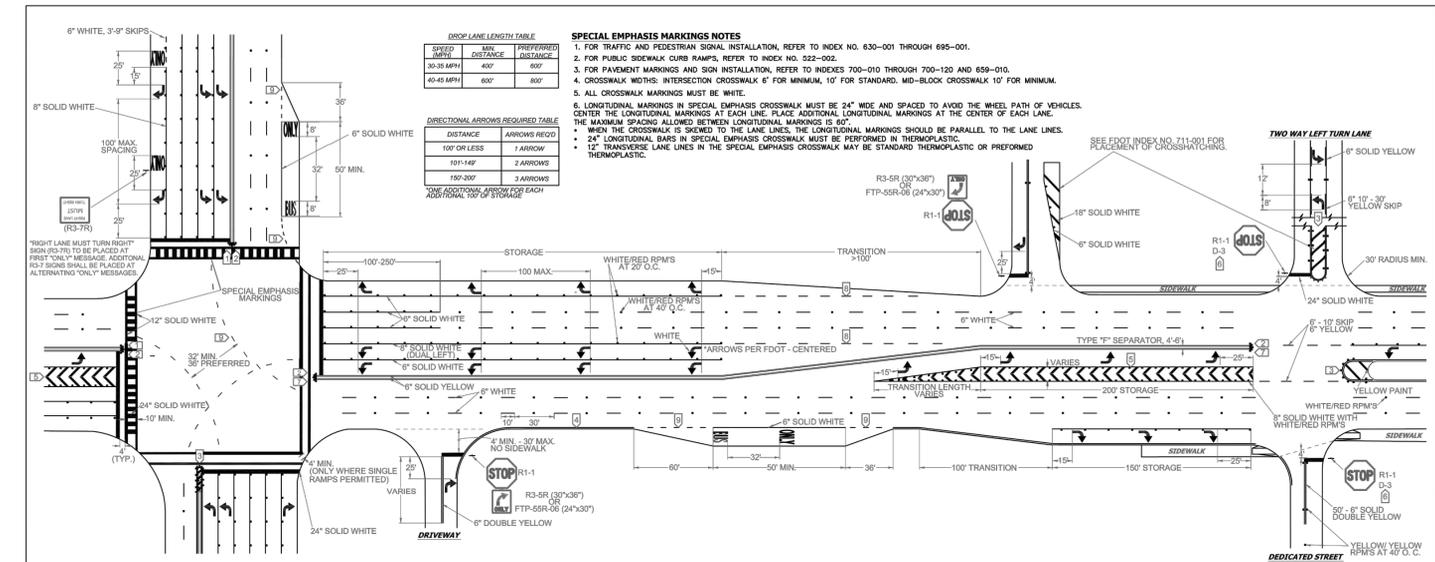
PAVING LEGEND

- 2" ASPHALT SURFACE TYPE SP-9.5 OR APPROVED EQUAL
- 8" LIMEROCK BASE COMPACTED IN 1 LIFT WITH MINIMUM LBR OF 100
- 12" THICK SUBGRADE COMPACTED AND STABILIZED WITH MINIMUM DESIGN LBR OF 40 COMPACTED TO AT LEAST 98% OF MAXIMUM DRY DENSITY (AASHTO T-100)



TYPICAL SWALE REGADING/SODDING CROSS-SECTION
NOT TO SCALE

PAVEMENT CROSS-SECTION
NOT TO SCALE



DATE	DESCRIPTION
01-15-2016	N/A
06-11-2018	UPDATED FDOT INDEX REFERENCE
08-23-2016	UPDATED NOTES

REVISIONS	DESCRIPTION
01-15-2016	N/A
06-11-2018	UPDATED FDOT INDEX REFERENCE
08-23-2016	UPDATED NOTES

LEGEND	EDGE LINE DETAILS	TYPE IV SEPARATOR DETAILS
<p>YELLOW/YELLOW RPM DETAILS</p> <p>1. ALL PAVEMENT MARKINGS SHALL BE ALKYL BASED THERMOPLASTIC AND FULLY RETROREFLECTORIZED.</p> <p>2. ALL PAVEMENT MARKINGS ON PAVEMENT SYSTEMS SHALL BE 3M 380/281 SERIES TAPE OR EQUIVALENT AND APPLIED WITH P80 ADHESIVE AS PER MANUFACTURER'S SPECIFICATIONS.</p> <p>3. ALL PAVEMENT MARKINGS AND SIGNING SHALL BE IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", BCTED STANDARDS, AND FDOT DESIGN STANDARDS.</p> <p>4. SEE FDOT INDEX NO. 706-001 FOR PLACEMENT OF RPM'S (FOR BULBOUT RMP TREATMENT, SEE LEGEND NO. 1)</p> <p>5. RPM'S SHALL BE CLASS "9" OR EQUIVALENT, APPLIED WITH EPOXY OR BITUMINOUS ADHESIVE.</p> <p>6. FDOT APPROVED SEALER SHALL BE USED WHEN APPLYING MARKINGS ON CONCRETE.</p> <p>7. FOR BIKE LANE DETAILS SEE FDOT INDEX NO. 711-002.</p> <p>8. MARKINGS IN AND ADJACENT TO BIKE LANES SHALL BE THERMOPLASTIC WITH A MIXTURE OF 50% GLASS SPHERES AND 50% SHARP SILICA SAND APPLIED AT A RATE DETERMINED BY THE MANUFACTURER'S SPECIFICATIONS.</p> <p>9. EXISTING MARKINGS SHALL BE REMOVED BY WATER BLASTING OR SAND BLASTING.</p> <p>10. ALL STOP LINES TO BE 4' BEHIND CROSSWALK OR SIDEWALK.</p> <p>11. PAVEMENT MARKING REFLECTIVITY SHALL BE UNIFORM ACROSS THE ENTIRE STRIPE AND SHALL HAVE A MINIMUM REFLECTIVITY READING OF 250 MILICANDLES FOR WHITE AND 175 MILICANDLES FOR YELLOW.</p> <p>12. ALL PRODUCTS MUST BE ON FDOT'S APPROVED PRODUCTS LIST (APL).</p> <p>13. RPM'S SHALL NOT BE INSTALLED ADJACENT TO BIKE LANES.</p>	<p>CHEVRON DETAILS - CROSSWALK AREAS AND IN FRONT OF CURB RAMPS</p> <p>1. ALL PAVEMENT MARKINGS SHALL BE ALKYL BASED THERMOPLASTIC AND FULLY RETROREFLECTORIZED.</p> <p>2. ALL PAVEMENT MARKINGS ON PAVEMENT SYSTEMS SHALL BE 3M 380/281 SERIES TAPE OR EQUIVALENT AND APPLIED WITH P80 ADHESIVE AS PER MANUFACTURER'S SPECIFICATIONS.</p> <p>3. ALL PAVEMENT MARKINGS AND SIGNING SHALL BE IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", BCTED STANDARDS, AND FDOT DESIGN STANDARDS.</p> <p>4. SEE FDOT INDEX NO. 706-001 FOR PLACEMENT OF RPM'S (FOR BULBOUT RMP TREATMENT, SEE LEGEND NO. 1)</p> <p>5. RPM'S SHALL BE CLASS "9" OR EQUIVALENT, APPLIED WITH EPOXY OR BITUMINOUS ADHESIVE.</p> <p>6. FDOT APPROVED SEALER SHALL BE USED WHEN APPLYING MARKINGS ON CONCRETE.</p> <p>7. FOR BIKE LANE DETAILS SEE FDOT INDEX NO. 711-002.</p> <p>8. MARKINGS IN AND ADJACENT TO BIKE LANES SHALL BE THERMOPLASTIC WITH A MIXTURE OF 50% GLASS SPHERES AND 50% SHARP SILICA SAND APPLIED AT A RATE DETERMINED BY THE MANUFACTURER'S SPECIFICATIONS.</p> <p>9. EXISTING MARKINGS SHALL BE REMOVED BY WATER BLASTING OR SAND BLASTING.</p> <p>10. ALL STOP LINES TO BE 4' BEHIND CROSSWALK OR SIDEWALK.</p> <p>11. PAVEMENT MARKING REFLECTIVITY SHALL BE UNIFORM ACROSS THE ENTIRE STRIPE AND SHALL HAVE A MINIMUM REFLECTIVITY READING OF 250 MILICANDLES FOR WHITE AND 175 MILICANDLES FOR YELLOW.</p> <p>12. ALL PRODUCTS MUST BE ON FDOT'S APPROVED PRODUCTS LIST (APL).</p> <p>13. RPM'S SHALL NOT BE INSTALLED ADJACENT TO BIKE LANES.</p>	<p>STOP SIGN NOTE</p> <p>WHERE SIDE ROADS INTERSECT A MULTI-LANE STREET OR HIGHWAY THAT HAS A SPEED LIMIT OF 45 MPH OR HIGHER, THE MINIMUM SIZE OF THE STOP SIGNS FACING THE SIDE ROAD APPROACHES, EVEN IF THE SIDE ROAD ONLY HAS ONE APPROACH LANE, SHALL BE 36"X36".</p> <p>WHERE SIDE ROADS INTERSECT A MULTI-LANE (INCLUDING TURN LANE) STREET OR HIGHWAY THAT HAS A SPEED LIMIT OF 40 MPH OR LOWER, THE MINIMUM SIZE OF THE STOP SIGN FACING THE SIDE ROAD APPROACHES SHALL BE 36"X36".</p>

BROWARD COUNTY FLORIDA

PUBLIC WORKS DEPARTMENT
TRAFFIC ENGINEERING DIVISION

DESIGN BY: CARMELO CARATOZZOLO, P.E.
DRAWN BY: STEPHON RAMOUTAR
CHECKED BY: ANDREW SEBO, P.E., PTOE

PAVEMENT MARKINGS AND SIGNS DETAILS

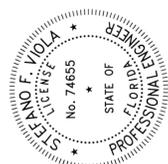
SHEET NO. 1 OF 1



Maintenance of Traffic (MOT) Instructions/Requirements

An approved MOT Plan from the Broward County Traffic Engineering Division (BCTED) shall be required when work is being performed within Broward County Right of Way regardless of whether a right-of-way permit is required. The approved MOT Plan shall be on site prior to and during the entire operation. Ensure the Certified Worksite Traffic Supervisor is present to direct the initial setup of the traffic control plan, is available on a 24-hour basis, participates in all changes to traffic control and reviews the project on a daily basis. An MOT plan shall conform to the Broward County Minimum Standards, the latest editions of the Florida Department of Transportation (FDOT) Standard Plans 102-600 Series and the Manual on Uniform Traffic Control Devices (MUTCD). An approved MOT Plan and a copy of the permit, if issued, must be on site at all times. The MOT is valid for the duration of the time frame mentioned in the MOT Application Form. Once the MOT is approved by the BCTED, the permittee shall be solely responsible for the installation and maintenance of the approved work zone traffic control devices throughout the length of the project.

- Application Process for an MOT Plan:**
- Include an MOT Application Form.
 - Include a location map for the project.
 - Submit an applicable FDOT Standard Plans Index from the 102-600 Series and/or a Typical Application figure from the MUTCD which represents the roadway characteristics and project conditions.
 - For example:
 - If the project involves the closure of a sidewalk, include a sidewalk closure index.
 - If the project does not impede a lane but is within the right of way, include the appropriate index for work off the road.
 - If the project requires a lane shift, include a lane shift index.
 - A sketch should accompany the submittals for a condition that is non-typical. Include taper lengths, shift lengths, shift widths, sign spacing, barricade or cone spacing, pavement markings, removal of pavement markings, nearby signal locations, etc..
 - Indexes, Typical Applications or sketches shall have the roadways identified by name and show a north arrow.
 - Applications shall include a current FDOT-approved certification for Worksite Traffic Supervisor. If you are submitting an MOT Plan with an FDOT Standard Plans Index or a Typical Application figure from the MUTCD, an Intermediate Level Certification Card will be required; if a sketch is submitted with the standard index, an Advanced Level Certification Card will be required. The certification card is required to contain the student's name, instructor's name, course provider, course category (Advance or Intermediate), date course was successfully completed and date when training or refresher course is required.
 - The FDOT Standard Index has notes in small print included on them. When sending these indexes, ensure the notes are legible.
 - The MOT Plan must cover all phases of construction.
 - If the project includes a sign-off sheet, it must be labeled with the project's name and/or location of the project.
 - The following document will be required prior to the approval of the MOT plan when signal equipment is impacted:
 - A filled out and signed form of ACCEPTANCE OF TRAFFIC SIGNAL MAINTENANCE AND TIMING BY CONTRACTOR DURING CONSTRUCTION AND BURN-IN PERIOD. The form can be downloaded under the category of Maintenance of Traffic in the webpage of <http://www.broward.org/Traffic/About/Pages/Publications.aspx>.
 - The approval of an MOT application may require up to (2) weeks from the time that all required documents as stated above are received at the Traffic Engineering Division. Any rejected MOT submittal that is corrected and sent back to BCTED will be considered a new submittal, which may require up to two (2) additional weeks to approve. Additional time may be needed for more complex plans or plans requiring additional coordination/information.



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NO.	REVISIONS	DATE

Kimley-Horn

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PHONE: 954-535-5100 FAX: 954-739-2247
WWW.KIMLEY-HORN.COM CA 00000696

LICENSED PROFESSIONAL
143221000
DATE: APRIL 2020
SCALE: AS SHOWN
DESIGNED BY: MM
DRAWN BY: AL
CHECKED BY: MM
DATE: 10/21/2020

STEFANO F. VIOLA
FL LICENSE NUMBER: 74655

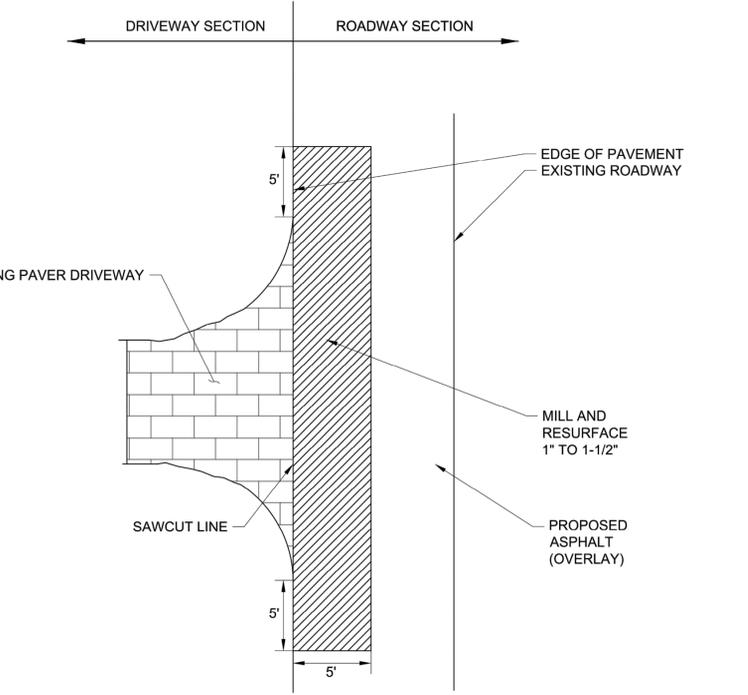
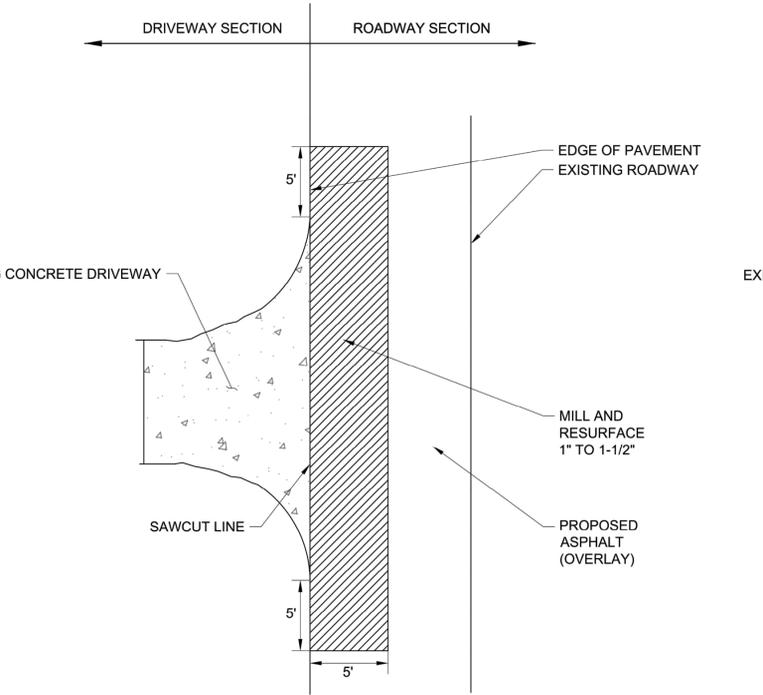
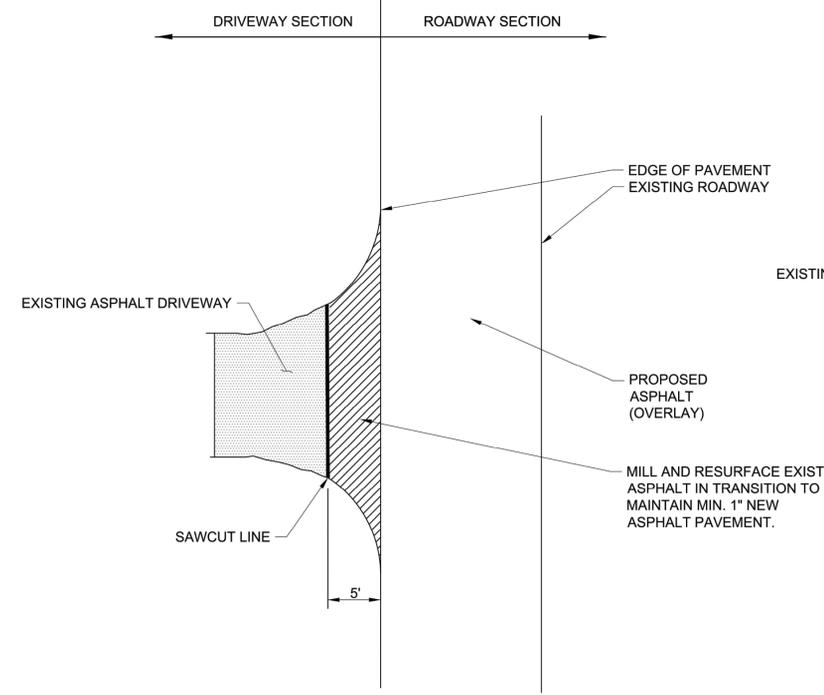
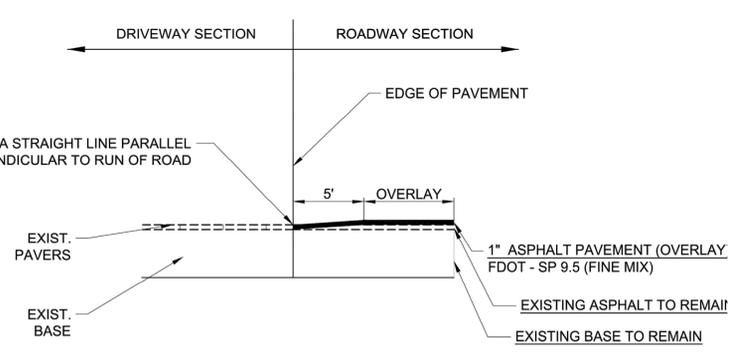
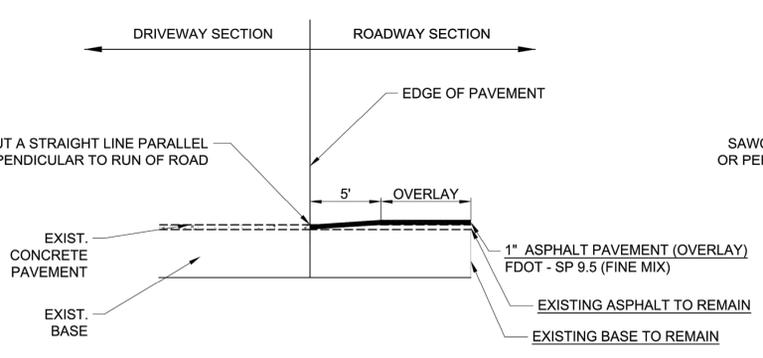
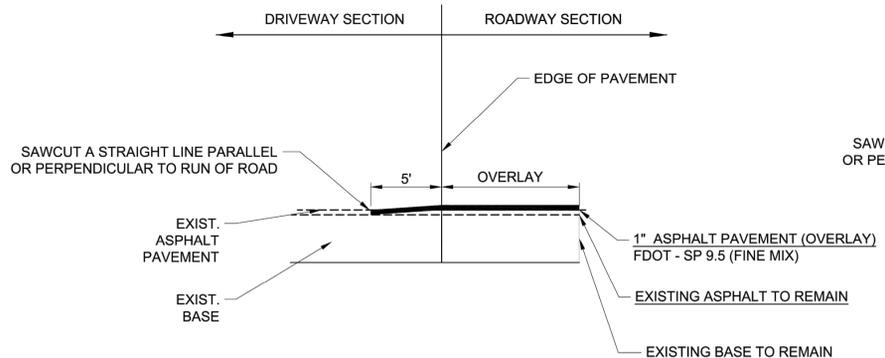
STANDARD DETAILS

SOUTHWEST RANCHES 2020 TSDOR

PREPARED FOR TOWN OF SOUTHWEST RANCHES

SHEET NUMBER C500.1

Plotted By: Marina, Morisso - Sheet Set: SOUTHWEST RANCHES 2020 TSDOR - Layout: C500.2 - ENGINEERING DETAILS - October 21, 2020 - 04:28:50pm - K:\FTL\Civil\43_Jobs\143221000-SW_Ranches_TSDOR\CAD_Plansheets\C500.2_ENGINEERING_DETAILS.dwg
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EXISTING ASPHALT DRIVEWAY CONNECTION DETAIL
N.T.S.

EXISTING CONCRETE DRIVEWAY CONNECTION DETAIL
N.T.S.

EXISTING PAVER DRIVEWAY CONNECTION DETAIL
N.T.S.

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY STEFANO F. VIOLA, P.E., ON 06/01/2021 USING A DIGITAL SIGNATURE.
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No.	REVISIONS	DATE	BY

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LICENSED PROFESSIONAL	STEFANO F. VIOLA
KHA PROJECT	143221000
DATE	APRIL 2020
SCALE	AS SHOWN
DESIGNED BY	MM
DRAWN BY	AL
CHECKED BY	MM
DATE	10/21/2020

STANDARD DETAILS

SOUTHWEST RANCHES 2020 TSDOR
 PREPARED FOR
TOWN OF SOUTHWEST RANCHES
 TOWN OF SOUTHWEST RANCHES FL

SHEET NUMBER
C500.2