

Town of Southwest Ranches Drainage and Infrastructure Advisory Board Meeting Agenda

Tuesday October 17, 2023 7:00 pm

Town Hall 13400 Griffin Road Southwest Ranches, FL 33330-2628

Board Members

Council Liaison
Council Member Allbritton

George Morris Kirk Hobson-Garcia Bryon Houghtaling James Starkweather Lee Lester Yardiel Fuentes Ed Gonzalez

- A. ROLL CALL
- **B. PLEDGE OF ALLEGIANCE**
- C. AGENDA AS FOLLOWS

Approval of Previous Meeting's Minutes

D. NEW BUSINESS

Green Meadows Ph. II Project Public Meeting

E. OLD BUSINESS

Project Updates

- F. ITEMS FOR NEXT MEETING
- G. BOARD MEMBER COMMENTS
- H. STAFF COMMENTS
- I. PUBLIC COMMENTS
- J. ADJOURNMENT

PURSUANT TO FLORIDA STATUTES 286.0105, THE TOWN HEREBY ADVISES THE PUBLIC THAT IF A PERSON DECIDES TO APPEAL ANY DECISION MADE BY THIS BOARD OR COMMITTEE WITH RESPECT TO ANY MATTER CONSIDERED AT ITS MEETING OR HEARING, HE OR SHE WILL NEED A RECORD OF THE PROCEEDINGS, AND THAT FOR SUCH PURPOSE, THE AFFECTED PERSON MAY NEED TO ENSURE THAT A VERBATIM RECORD OF THE PROCEEDING IS MADE, WHICH RECORD INCLUDES THE TESTIMONY AND EVIDENCE UPON WHICH THE APPEAL IS TO BE BASED. THIS NOTICE DOES NOT CONSTITUTE CONSENT BY THE TOWN FOR THE INTRODUCTION OR ADMISSION OF OTHERWISE INADMISSIBLE OR IRRELEVANT EVIDENCE, NOR DOES IT AUTHORIZE CHALLENGES OR APPEALS NOT OTHERWISE ALLOWED BY LAW.



Town of Southwest Ranches

Drainage and Infrastructure Advisory Board (DIAB) Meeting Minutes

Tuesday, September 19, 2023 Town Hall 7:00 PM 13400 Griffin Road

Call to Order 7:00 PM

Roll Call

GM, George Morris, Chair – Here

JS, James Starkweather, Vice Chair - Here

KHG, Kirk Hobson-Garcia P.E., Secretary – Absent

YF, Yardiel Fuentes, Member – Here

EG, Ed Gonzalez, Member – Absent

BH, Bryon Houghtaling, Member - Absent

LL, Lee Lester, Member – Here

A Quorum was established.

Also **Present**: Steve Breitkreuz, Mayor; Rod Ley P.E., Public Works Director; Jim Allbritton, Vice Mayor; Bob Hartmann, Council Member; Gary Jablonski, Council Member; David Kuczenski, Council Member,

Absent: Bryon Houghtaling, Kirk Hobson-Garcia, Ed Gonzalez

Pledge of Allegiance

Follow up Drainage Discussion

Motion: To approve previous meeting minutes

Result 1st 2nd GM KHG YF LL JS EG BH JS LL Y Y Y Passed Abs Y Abs Abs

Meeting Adjourned: 8:20 PM Next meeting: Tuesday, November 21, 2023

SW RANCHES GREEN MEADOWS DRAINAGE

PREPARED FOR:

TOWN OF SOUTHWEST RANCHES

LOCATION:

SOUTHWEST RANCHES, FLORIDA SECTION 36, TOWNSHIP 50S, RANGE 39E

PROJECT TEAM

STEFANO F. VIOLA, P.E. 8201 PETERS ROAD, SUITE 2200 PLANTATION, FL 33324 PHONE: (954) 535-5100

13400 GRIFFIN ROAD SOUTHWEST RANCHES, FL 33330 PHONE: (954) 434-0008 CONTACT: ROD LEY, P.E. STEFANO.VIOLA@KIMLEY-HORN.COM

UTILITY PROVIDERS

WATER AND SEWER: CITY OF SUNRISE WATER AND CONTACT: JULIO GUERRA 14150 W 8TH STREET SUNRISE, FL 33325 (954) 888-6069

CONTACT: JOEL BRAY 10705 QUAIL ROOST DR. MIAMI, FL 33157 (386) 586-6403

CONTACT: RICHARD DAVIDSON **DAVIE, FL 33317** (786) 586-8505

CONTACT: DINO FARRUGGIO 600 NW 79 AVE., RM356 MIAMI, FL 33126 (561) 683-2729

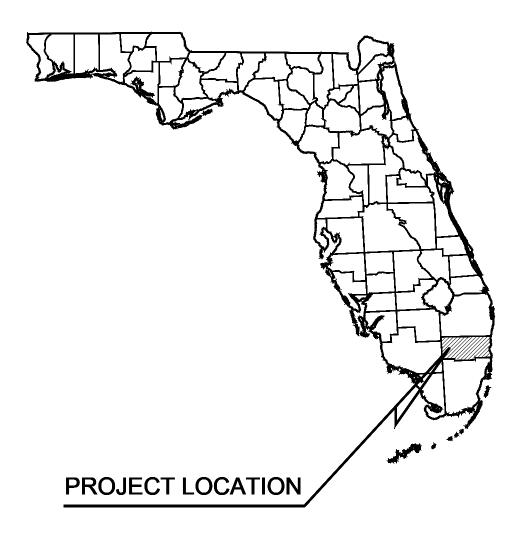
COMMUNITY OFFICIALS

MAYOR

VICE MAYOR COUNCILMEMBER COUNCILMEMBER COUNCILMEMBER ADMINISTRATOR ATTORNEY CLERK PUBLIC WORKS DIRECTOR

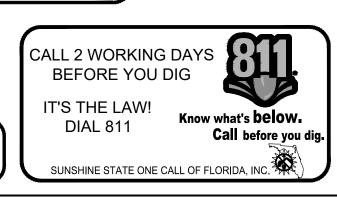
DOUGH MCKAY DENISE "DEE" SCHROEDER **GARY JABLONSKI** DELSA WINSLOW AMUNDSON BOB HARTMANN ANDREW "ANDY" BERNS KEITH POLIAKOFF RUSSELL MUÑIZ ROD LEY, P.E.

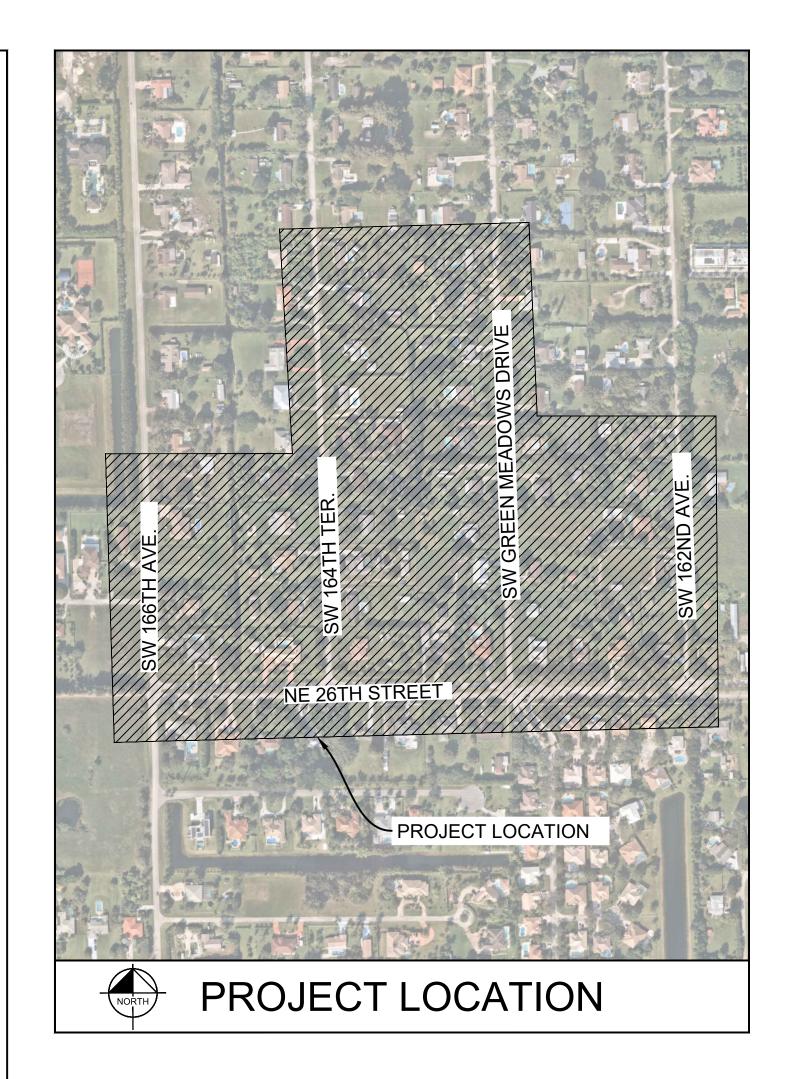
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Sheet	Sheet Title	
Number		
C000.0	Cover Sheet	
C101.1	General Notes	
C101.2	Key Map	
C200.1	Demolition and Erosion Control Plan	
C200.2	Demolition and Erosion Control Plan	
C200.3	Demolition and Erosion Control Plan	
C200.4	Demolition and Erosion Control Plan	
C200.5	Demolition and Erosion Control Plan	
C200.6	Demolition and Erosion Control Plan	
C200.7	Demolition and Erosion Control Plan	
C200.8	Demolition and Erosion Control Plan	
C200.9	Demolition and Erosion Control Plan	
C201.0	Demolition and Erosion Control Details	
C300.1	Engineering Plan	
C300.2	Engineering Plan	
C300.3	Engineering Plan	
C300.4	Engineering Plan	
C300.5	Engineering Plan	
C300.6	Engineering Plan	
C300.7	Engineering Plan	
C300.8	Engineering Plan	
C300.9	Engineering Plan	
C301.0	Engineering Plan Details	
C301.1	Engineering Plan Details	
C301.2	Engineering Plan Details	



ALL ELEVATIONS SHOWN ON THESE PLANS ARE BASED ON THE NAVD 88. TO CONVERT ELEVATIONS TO NGVD 29, ADD 1.56'

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE.





PROJECT SW RANCHES GREEN MEADOWS DRAINAGE

PROJECT NUMBER 143221005

PROJECT LOCATION SOUTHWEST RANCHES, FLORIDA

PREPARED FOR:



REPARED BY:	-
Kim	ley» Horn

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DESIGN DEVELOPMENT PLANS

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.

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
- 4. 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
- 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 EDITIONS.
- THE CONTRACTOR IS REQUIRED TO OBTAIN ALL APPLICABLE CONSTRUCTION PERMITS PRIOR TO START OF CONSTRUCTION. THE CONTRACTOR SHALL APPLY FOR AND PROCURE ALL PERMITS AND LICENSES, PAY ALL APPLICABLE CHARGES, TAXES, ROYALTIES & FEES, AND GIVE ALL NOTICES NECESSARY TO COMPLETE THIS PROJECT.
- RADII DIMENSIONS AND ELEVATIONS ARE TO BE EDGE OF PAVEMENT AND FINISH GRADE UNLESS NOTED OTHERWISE. 10. 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,
- PLUGGED OR OTHERWISE SEALED. 11. CONTRACTOR SHALL NOTIFY BROWARD COUNTY TRAFFIC ENGINEERING DIVISION 72 HOURS PRIOR TO WORK WITHIN COUNTY RIGHT-OF-WAY. 12. 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 13. EXCESS MATERIAL REMOVED BY THE CONTRACTOR WILL BE DISPOSED OF IN AREAS PROVIDED BY THE CONTRACTOR.
- 14. 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 THAT WILL BE ENCOUNTERED AND LIPON WHICH THEIR RIDS 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 15. 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
- 16. THE CONTRACTOR SHALL TAKE SPECIAL NOTE OF ANY SPECIAL EQUIPMENT SHORING, SHEETING OR OTHER PROCEDURES 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 17. APPARENT ERRORS, DISCREPANCIES, OR OMISSIONS ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD IMMEDIATELY.
- 18. 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.
- 19. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES THAT REMAIN IN PLACE 20. ALL ROAD CROSSINGS ARE OPEN CUT UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- 21. 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. 22. THE CONTRACTOR SHALL NOT ENCROACH INTO PRIVATE PROPERTY WITH PERSONNEL, MATERIAL OR EQUIPMENT
- WITHOUT OBTAINING WRITTEN PERMISSION FROM THE OWNER 23. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE, REMOVAL OR MODIFICATION ACCIDENTALLY OR PURPOSELY, CAUSED TO 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. 24. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE INTEGRITY OF AND MAKING THE REPAIRS OF EXISTING PAVEMENT, PIPES, CONDUITS, CURBS, CABLES, TREES, SOD, LANDSCAPE ITEMS, ETC. WHETHER OR NOT SHOWN ON THE PLANS DAMAGED AS A RESULT OF THE CONTRACTORS OPERATIONS AND/OR THOSE OF THEIR SUBCONTRACTORS. CONTRACTOR SHALL REPORT ANY DAMAGE TO SIDEWALK, DRIVEWAY, ETC., PRIOR TO BEGINNING WORK IN ANY AREA.
- 25. CONTRACTOR IS RESPONSIBLE TO REMOVE AND REINSTALL ALL BRICK OR PAVER 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.
- 26. THE CONTRACTOR SHALL RESTORE OR REPLACE, WHEN AND AS DIRECTED BY THE ENGINEER, ANY PUBLIC OR PRIVATE PROPERTY DAMAGED BY HIS/HER 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.
- 27. CONTRACTOR SHALL ADJUST ALL EXISTING SURFACE FEATURES SUCH AS EXISTING FRAMES, GRATES, MANHOLE COVERS, UTILITY VALVE BOXES, MONITORING WELLS, ECT. TO MATCH PROPOSED GRADES. CONTRACTOR TO SUPPLY AND INSTALL COMPOSITE MANHOLE AND VALVE RISERS.
- 28. 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 1 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.

- 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:
- 2.1. A REFERENCE TO THE TRENCH SAFETY STANDARDS THAT WILL BE IN EFFECT DURING THE PERIOD OF CONSTRUCTION OF THE PROJECT
- 2.2. WRITTEN ASSURANCES BY THE CONTRACTOR PERFORMING THE TRENCH EXCAVATION THAT SUCH CONTRACTOR WILL COMPLY WITH THE APPLICABLE TRENCH SAFETY STANDARDS.
- 2.3. 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 ITO THE ENGINEER PRIOR TO STARTING WORK.

II. PRECONSTRUCTION RESPONSIBILITIES

- 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
- 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.
- 4. 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. 6. 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 EXISTING UTILITIES SHALL BE MAINTAINED IN SERVICE DURING CONSTRUCTION UNLESS OTHERWISE APPROVED BY THE
- UTILITY OWNER. 8. 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.
- 10. THE CONTRACTOR IS TO USE CAUTION WHEN WORKING IN OR AROUND AREAS OF OVERHEAD TRANSMISSION LINES OR UNDERGROUND UTILITIES. 11. 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 1. 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:
- 1.1. STORM DRAINAGE WATER MAIN
- SUBGRADE; SUBMIT AND HAVE APPROVED DENSITIES PRIOR TO PLACEMENT OF ROCK 1.4. LIMEROCK BASE; SUBMIT AND HAVE APPROVED DENSITIES AND AS-BUILTS PRIOR TO THE PLACEMENT OF ANY
- 1.5. ASPHALTIC CONCRETE
- 2. ALL INSPECTIONS WILL BE MADE BY THE COUNTY AND THE TOWN OF SOUTHWEST RANCHES. THE ENGINEER OF RECORD
- WILL PROVIDE CONSTRUCTION OBSERVATION SERVICE. 3. 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

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 LITILITIES 1. 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.
- 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. 2. 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.
- TEMPORARY FACILITIES THE CONTRACTORS 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 ABUTTING PRIVATE PROPERTY OR PUBLIC RIGHT-OF-WAY WITHOUT APPROVAL FROM THE COUNTY AND THE TOWN OF SOUTHWEST RANCHES.
- 3. 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. ALL COSTS ASSOCIATED WITH THE CONSTRUCTION AND MAINTAINING LIGHTING TO BE INCLUDED IN M.O.T. PAY ITEM
- 4. 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 954-357-8300 OR AT 954-357-8232.
- 5. 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

- 1. 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 SWEPT BROOM CLEAN
- 2. 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. 3. 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 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) SHOWING LIMEROCK BASE GRADES. PAVING OPERATIONS SHALL NOT COMMENCE UNTIL THE ENGINEER HAS REVIEWED THE "AS-BUILTS."
- 3. ALL REQUIRED DENSITY AND LBR TEST RESULTS FOR SUB-GRADE SHALL BE PROVIDED TO THE ENGINEER PRIOR TO PLACING BASE MATERIAL. 4. ALL REQUIRED DENSITY AND LBR TEST RESULTS FOR LIMEROCK SHALL BE PROVIDED TO THE ENGINEER PRIOR TO
- PLACING ASPHALT ALL "AS-BUILT" INFORMATION SUBMITTED TO THE ENGINEER SHALL BE SUFFICIENTLY ACCURATE, CLEAR AND LEGIBLE TO SATISFY THE ENGINEER THAT THE INFORMATION PROVIDES A TRUE REPRESENTATION OF THE IMPROVEMENTS
- CONSTRUCTED 6. UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER OF RECORD COMPLETE SETS OF "AS-BUILT" CONSTRUCTION DRAWINGS (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 ELEVATIONS OF WATER, SEWER, PAVING, AND DRAINAGE SHALL BE CERTIFIED BY A REGISTERED LAND SURVEYOR.
- 8. AS-BUILT INFORMATION ON THE WATER SYSTEM SHALL INCLUDE LOCATIONS OF ALL VALVES, FITTINGS, FIRE HYDRANTS, WATER SERVICES AND TOP OF PIPE FLEVATIONS AT ALL FITTINGS AND AT A MINIMUM OF 100' SPACING THE COST OF SIGNED AND SEALED AS-BUILTS AND CADD 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.
- 3. ALL FILL MATERIAL IN AREAS NOT TO BE PAVED SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180
- 4. A 2" BLANKET OF TOP SOIL SHALL BE PLACED OVER ALL AREAS TO BE SODDED.
- 5. SOD 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 6. WHEN WORKING IN AND AROUND EXISTING DRAINAGE CANALS OR LAKES, APPROPRIATE SILT BARRIERS SHALL BE
- 7. 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
- 8 SUITABLE BACKEILL SHALL BE MINIMUM LBR 40 MATERIAL 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. 10. 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. 11. GROUND ADJACENT TO ROADWAY/PAVEMENT WHERE STORMWATER RUNOFF FLOWS FROM PAVEMENT TO GROUND
- SHALL BE GRADED TWO (2) INCHES LOWER THAN THE EDGE OF PAVEMENT TO ALLOW FOR THE PLACEMENT OF SOD. 12. 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.
- 13. ALL AREAS TO BE CONSTRUCTED 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. 14. ALL PROPOSED GRADES SHOWN IN PLAN ARE FINISHED GRADES.

VIII. PAVING

A. GENERAL 1 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

- 1. LIMEROCK BASE MATERIAL SHALL HAVE A MINIMUM OF 70% CARBONATES (CALCIUM AND MAGNESIUM) WITH A MINIMUM
- 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.

3. SURFACE COURSE SHALL BE EQUAL TO FDOT TYPE SP-9.5 ASPHALTIC CONCRETE.

ASPHALTIC CONCRETE SHALL BE 1" SP-9.5 OR 2" SP-9.5 AS SPECIFIED.

- 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.
- 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: 8.1. A WALK THROUGH HAS BEEN CONDUCTED TO DETERMINE IF THERE IS ANY REMAINING WORK THAT MIGHT CAUSE DAMAGE TO THE FINAL LIFT. 8.2. ALL LANDSCAPING WORK THAT MIGHT CAUSE DAMAGE TO THE FINAL LIFT IS COMPLETE.
- 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

- 1. 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. 2. 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.
- 3. ONE BI-DIRECTIONAL YELLOW REFLECTIVE PAVEMENT MARKER SHALL BE PROVIDED AT 40' INTERVALS ON EACH SIDE OF DOUBLE YELLOW STRIPES 4. BI-DIRECTIONAL AMBER/AMBER REFLECTIVE PAVEMENT MARKERS SHALL BE PROVIDED AT 1' INTERVALS AT ALL
- BULLNOSES. AS PER BROWARD COUNTY TRAFFIC ENGINEERING DIVISION. 5. BI-DIRECTIONAL WHITE/RED 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.
- 7. ALL SIGNING SHALL BE FABRICATED USING TYPE XI SHEETING, AS PER BROWARD COUNTY TRAFFIC ENGINEERING STANDARDS (CURRENT EDITION)
- 8. ALL PAVEMENT MARKINGS AND SIGNING DAMAGED DURING CONSTRUCTION SHALL BE RESTORED TO BROWARD COUNTY TRAFFIC ENGINEERING STANDARDS (CURRENT EDITION).
- 9. IF REQUIRED, EXISTING MARKINGS SHALL BE REMOVED BY WATER BLASTING ONLY.

LABOR AND MATERIAL ARE AVAILABLE FOR THE CONSTRUCTION IN THAT AREA.

- 10. SEE SIGNING AND MARKING DETAILS SHEET C400 FOR ADDITIONAL INFORMATION. 11. 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
- 12. CONTRACTOR TO SUBMIT ENGINEER APPROVAL LETTER ON PAVEMENT MARKINGS NOT MAINTAINED BY BROWARD COUNTY TRAFFIC ENGINEERING DEPARTMENT.

X. MAINTENANCE OF TRAFFIC

- 1. TRAFFIC CONTROLS SHALL BE IN ACCORDANCE WITH THE PROJECT TRAFFIC PLANS. THE CURRENT EDITION OF THE FLORIDA D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARD INDEXES (600 SERIES). THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AS MINIMUM
- 2. 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.
- APPROVAL TO ROADWAY'S MAINTAINING AGENCY TO CLOSURE OR DETAIL 4. 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

3. REQUEST FOR PROPOSED LANE CLOSURES OR TEMPORARY DETOURS SHALL BE SUBMITTED FOR REVIEW AND

- RETURNED TO AN ACCEPTABLE LEVEL. 5. THE TRAFFIC AND TRAVEL WAYS SHALL NOT BE ALTERED BY THE CONTRACTOR TO CREATE A WORK ZONE UNTIL ALL
- 6. THE CONTRACTOR SHALL REMOVE ANY EXISTING OR PROPOSED PAVEMENT MARKINGS THAT CONFLICT WITH THE TRAFFIC CONTROL WHEN THE CONFLICT NO LONGER EXISTS THE CONTRACTOR SHALL RESTORE 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 PERMITTED IN NON-TRAFFIC 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 PROHIBITED 7. 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. 8. ALL EXISTING STREET NAMES AND STOP SIGNS 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. 9. 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.
- 10. 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 11. 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 SIGNAL(S) WITHIN THE PROJECT LIMITS. COST OF REARRANGING TRAFFIC SIGNAL HEADS AND MAINTAINING TRAFFIC SIGNALS TO BE INCLUDED IN THE BID. 12. CONTRACTOR TO MAINTAIN ACCESS TO RESIDENCES AND BUSINESSES ALONG THE PROJECT BY NORMAL MEANS AND
- 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 13. 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

METHODS, I.E. TEMPORARY STEEL PLATES, LIMEROCK, ETC. CONTRACTOR IS TO SUBMIT A PROPOSED METHOD OF

- "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. 14. 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. 15. AT THE END OF EACH WORK DAY OR WHENEVER THE WORK ZONE BECOMES INACTIVE, ANY DROP-OFF ADJACENT TO TH 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 16. 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
- 17. 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. 18. 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. 19. 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.

XI. CONCRETE SIDEWALK

- 1. ALL SIDEWALKS TO BE 4" THICK, EXCEPT THOSE TRAVERSING DRIVEWAYS SHALL BE 6" THICK, AS PER SIDEWALK
- 2. PROPOSED SIDEWALK SLOPE SHALL NOT EXCEED MAXIMUM CROSS SLOPE OF 2% AND LONGITUDINAL SLOPE OF 5%.
- 3. ALL SIDEWALK RAMPS AND DETECTABLE WARNINGS TO MEET FDOT STANDARDS.

DEPARTMENT OF TRANSPORTATION WITHIN PUBLIC RIGHT-OF-WAY.

- 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 PAVER BRICKS, PAINTED ASPHALT, STAMPED ASPHALT OR PAVEMENT MARKINGS MADE OF PAVER 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, 3. 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 PAVER BRICKS, PAINTED ASPHALT, STAMPED ASPHALT OR PAVEMENT MARKINGS MADE OF PAVER 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

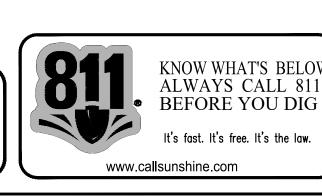
SIGNING, GREEN BIKE LANES, FLEXIBLE DELINEATORS, DECORATIVE SIGNS AND DECORATIVE SIGN POSTS, PLANTERS,

ON-SITE PAVEMENT MARKINGS AND SIGNING, OFF-SITE PAVEMENT MARKINGS AND SIGNING IN RIGHT-OF-WAY THAT IS

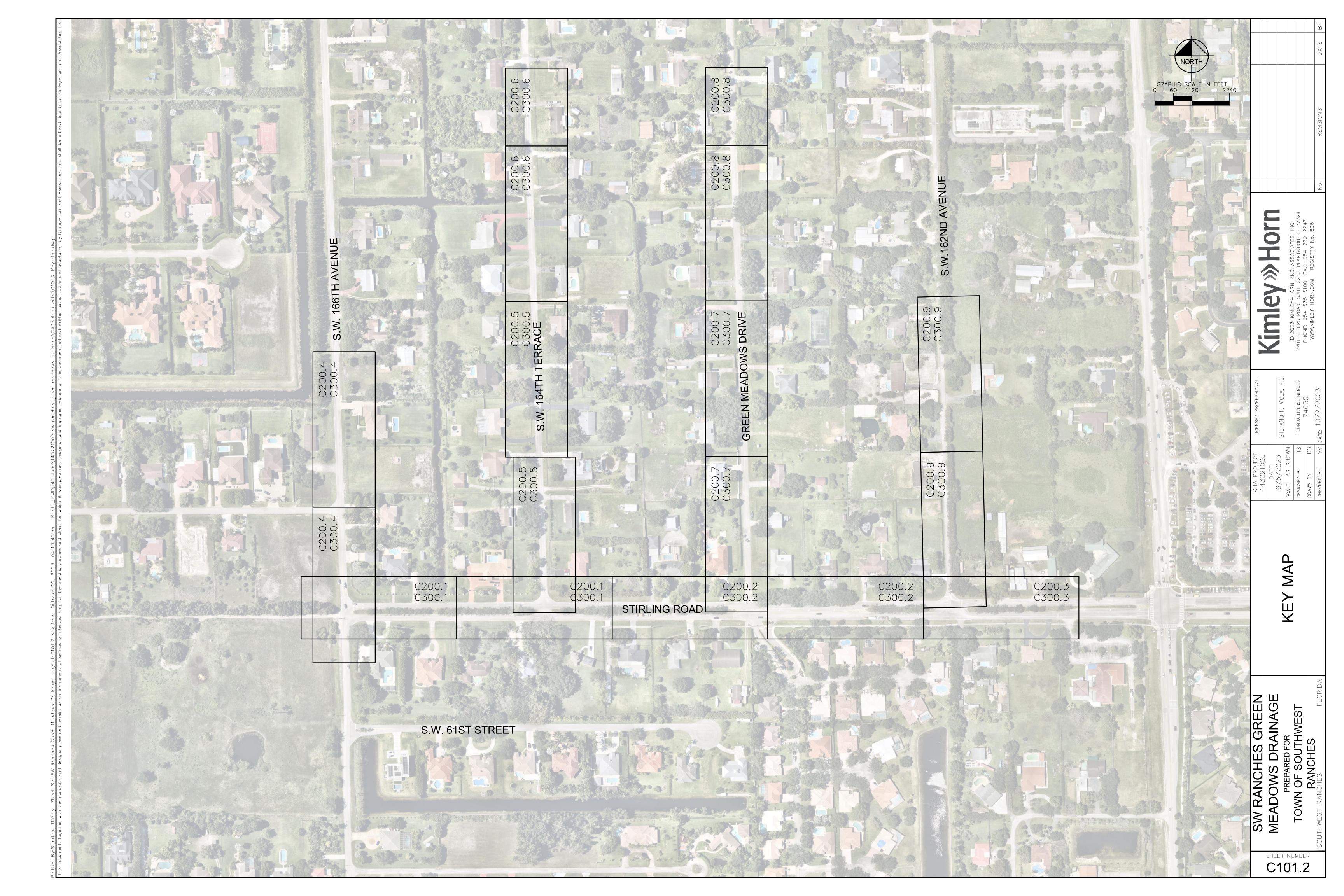
NOT DEDICATED FOR PUBLIC USE, SIDEWALK WORK AND ASPHALT WORK. 4. THE BROWARD COUNTY TRAFFIC ENGINEERING DIVISION (BCTED) ONLY REVIEWS, INSPECTS, AND MAINTAINS PAVEMENT MARKINGS AS NOTED IN THE PLAN TO BE "MAINTAINED BY COUNTY (OR BCTED)." 5. BCTED ONLY REVIEWS, INSPECTS, AND MAINTAINS SIGNS BEING RECOGNIZED BY THE FEDERAL HIGHWAY

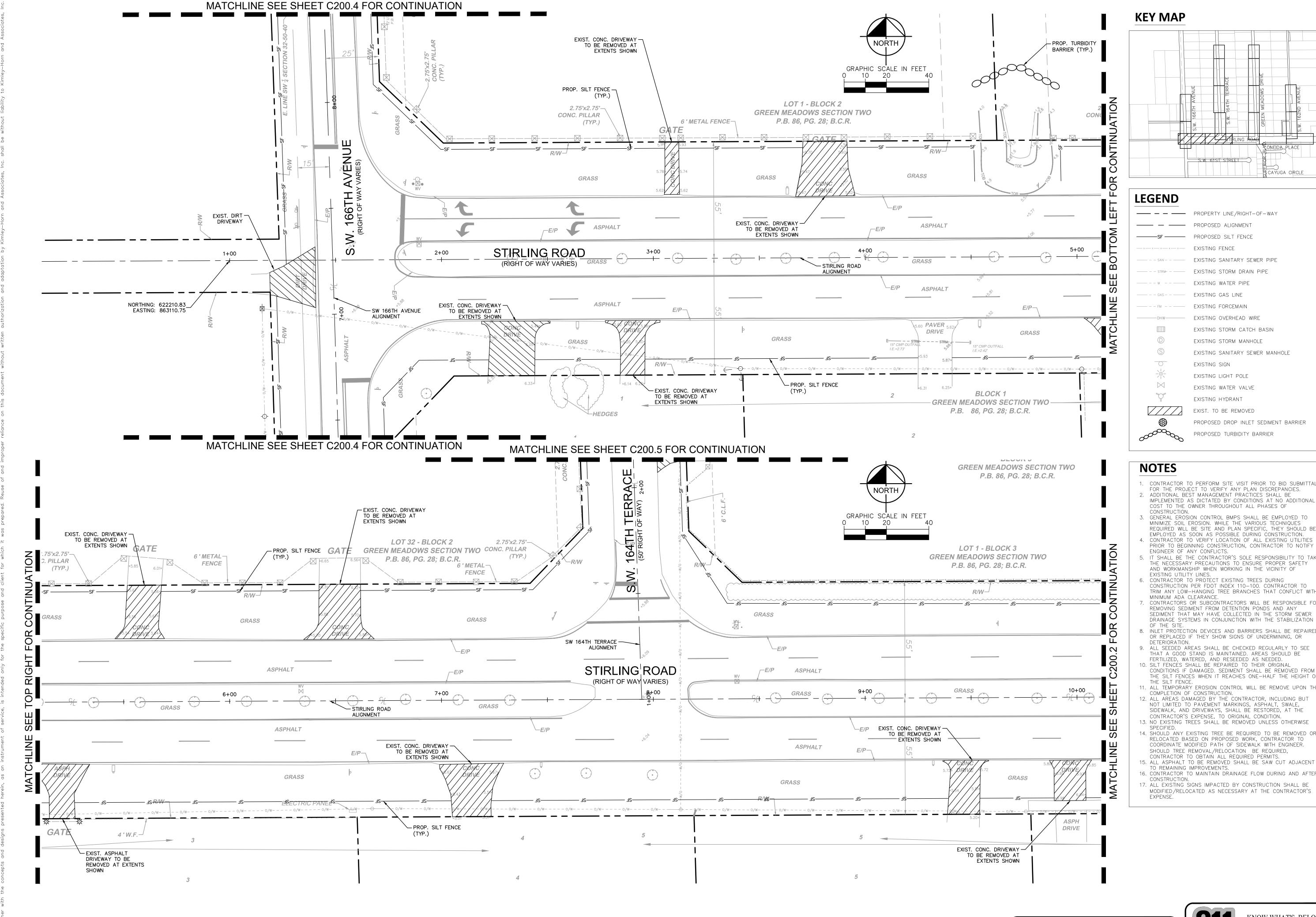
ADMINISTRATION PUBLICATION ENTITLED MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND/OR THE FLORIDA

HE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED, CONTRACTOR'S BID SHALL NCLUDE CONSIDERATION FOR ADDRESSING THIS SSUE AND OBTAINING ALL NECESSARY PERMITS



SHEET NUMBER C101.1





S.W. 61ST STREET

CAYUGA CIRCLE

LEGEND

EXISTING FENCE EXISTING SANITARY SEWER PIPE EXISTING STORM DRAIN PIPE EXISTING WATER PIPE EXISTING GAS LINE EXISTING FORCEMAIN EXISTING OVERHEAD WIRE EXISTING STORM CATCH BASIN EXISTING STORM MANHOLE EXISTING SANITARY SEWER MANHOLE EXISTING SIGN EXISTING LIGHT POLE EXISTING WATER VALVE EXISTING HYDRANT EXIST. TO BE REMOVED

1. CONTRACTOR TO PERFORM SITE VISIT PRIOR TO BID SUBMITTAL FOR THE PROJECT TO VERIFY ANY PLAN DISCREPANCIES. 2. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS AT NO ADDITIONAL ST TO THE OWNER THROUGHOUT ALL PHASES OF

PROPOSED DROP INLET SEDIMENT BARRIER

PROPOSED TURBIDITY BARRIER

CONSTRUCTION. S. GENERAL EROSION CONTROL BMPS SHALL BE EMPLOYED TO MINIMIZE SOIL EROSION. WHILE THE VARIOUS TECHNIQUES REQUIRED WILL BE SITE AND PLAN SPECIFIC, THEY SHOULD BE EMPLOYED AS SOON AS POSSIBLE DURING CONSTRUCTION. CONTRACTOR TO VERIFY LOCATION OF ALL EXISTING UTILITIES

PRIOR TO BEGINNING CONSTRUCTION, CONTRACTOR TO NOTIFY ENGINEER OF ANY CONFLICTS. 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.
CONTRACTOR TO PROTECT EXISTING TREES DURING

CONSTRUCTION PER FDOT INDEX 110-100. CONTRACTOR TO TRIM ANY LOW-HANGING TREE BRANCHES THAT CONFLICT WITH MINIMUM ADA CLEARANCE. CONTRACTORS OR SUBCONTRACTORS WILL BE RESPONSIBLE FOR REMOVING SEDIMENT FROM DETENTION PONDS AND ANY SEDIMENT THAT MAY HAVE COLLECTED IN THE STORM SEWER

INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING, OR

DETERIORATION. ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED, WATERED, AND RESEEDED AS NEEDED.

. SILT FENCES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE SILT FENCES WHEN IT REACHES ONE-HALF THE HEIGHT OF THE SILT FENCE. 1. ALL TEMPORARY EROSION CONTROL WILL BE REMOVE UPON THE

COMPLETION OF CONSTRUCTION. 12. ALL AREAS DAMAGED BY THE CONTRACTOR, INCLUDING BUT NOT LIMITED TO PAVEMENT MARKINGS, ASPHALT, SWALE, SIDEWALK, AND DRIVEWAYS, SHALL BE RESTORED, AT THE

CONTRACTOR'S EXPENSE, TO ORIGINAL CONDITION. 13. NO EXISTING TREES SHALL BE REMOVED UNLESS OTHERWISE

14. SHOULD ANY EXISTING TREE BE REQUIRED TO BE REMOVED OR RELOCATED BASED ON PROPOSED WORK, CONTRACTOR TO COORDINATE MODIFIED PATH OF SIDEWALK WITH ENGINEER. SHOULD TREE REMOVAL/RELOCATION BE REQUIRED, CONTRACTOR TO OBTAIN ALL REQUIRED PERMITS.

15. ALL ASPHALT TO BE REMOVED SHALL BE SAW CUT ADJACENT TO REMAINING IMPROVEMENTS. 16. CONTRACTOR TO MAINTAIN DRAINAGE FLOW DURING AND AFTER

7. ALL EXISTING SIGNS IMPACTED BY CONSTRUCTION SHALL BE MODIFIED/RELOCATED AS NECESSARY AT THE CONTRACTOR'S

HE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS



KNOW WHAT'S BELOW ALWAYS CALL 811 BEFORE YOU DIG It's fast. It's free. It's the law.

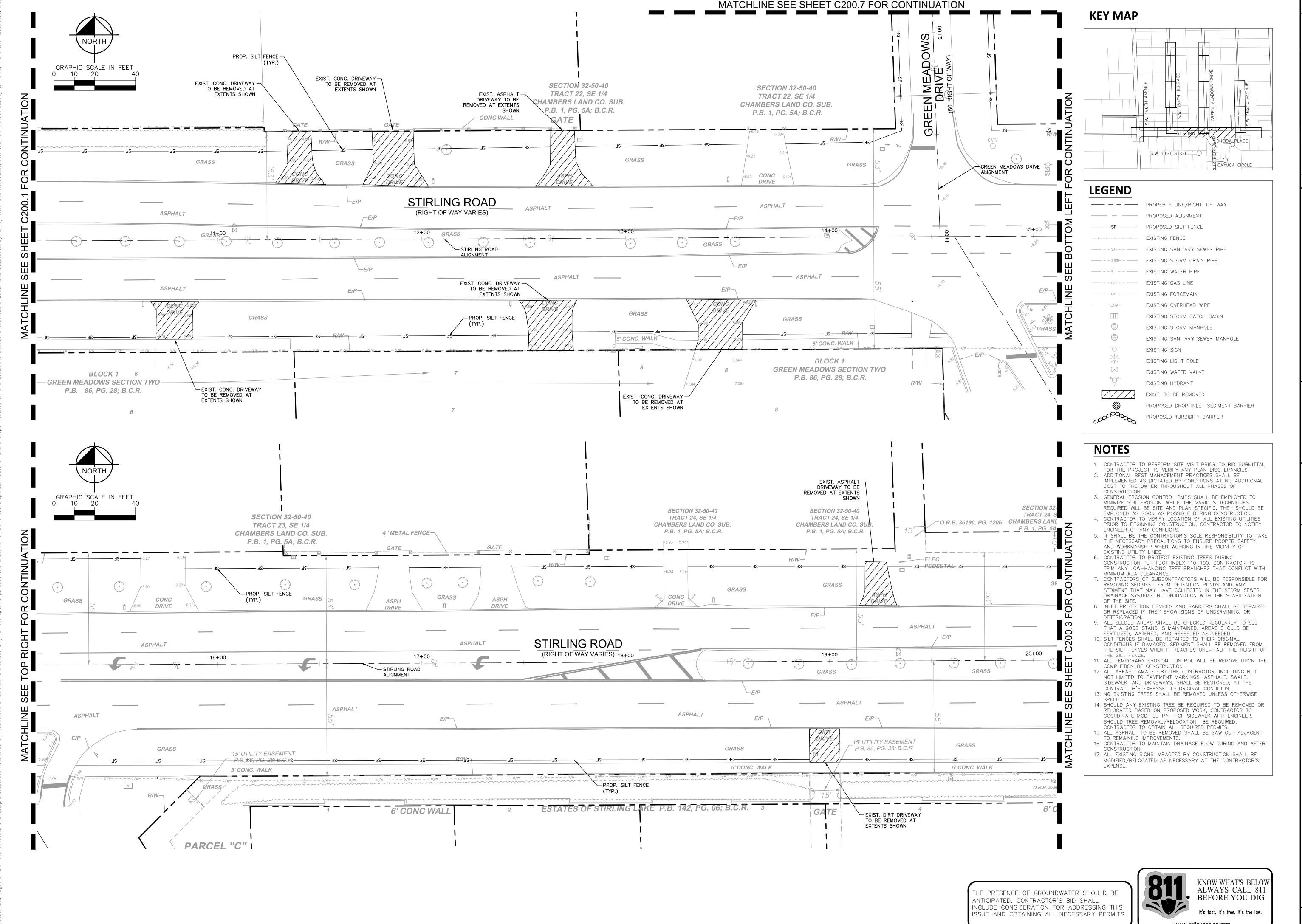
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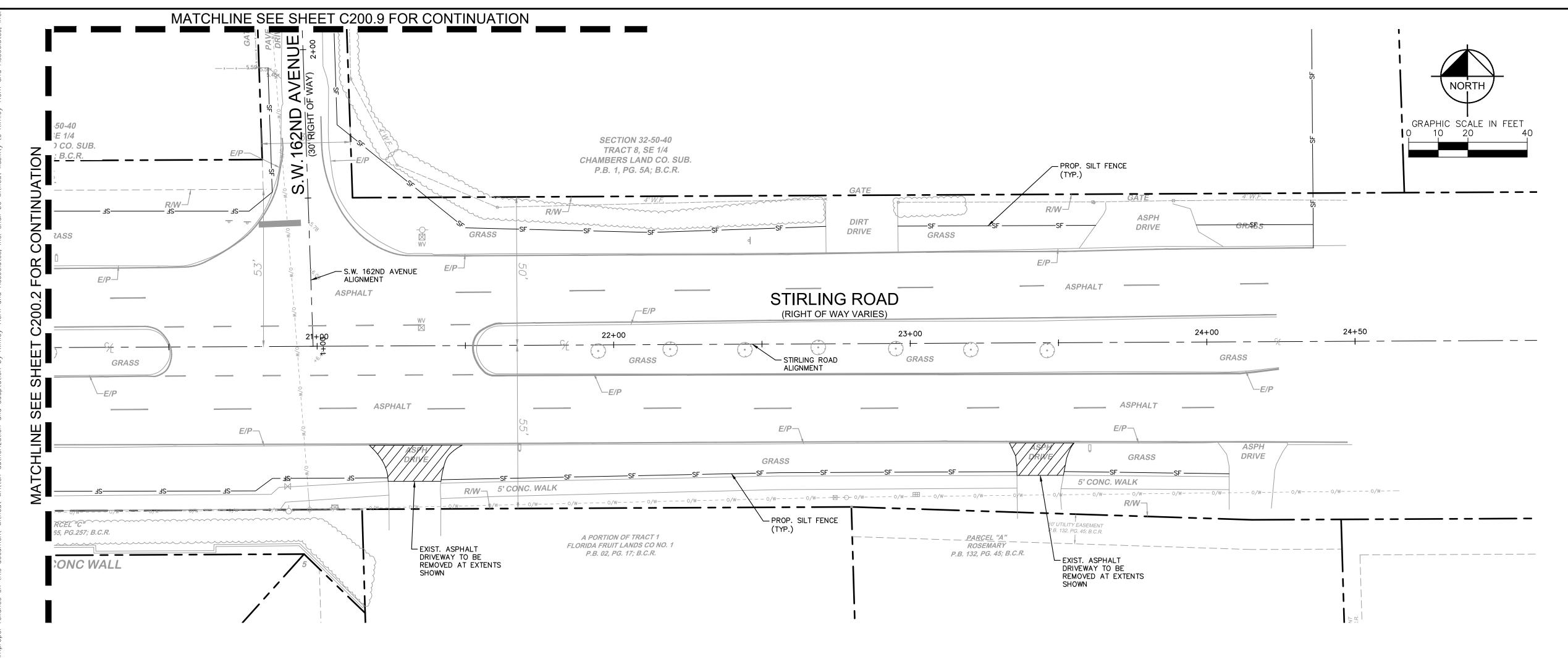


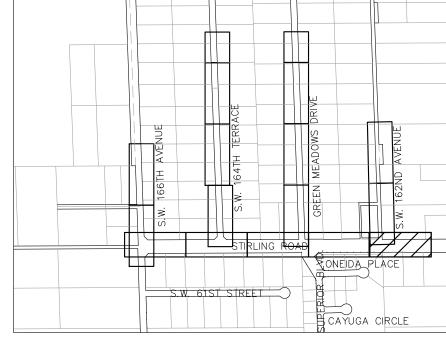


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LEGEND

	PROPERTY LINE/RIGHT-OF-WAY
	PROPOSED ALIGNMENT
————SF ———	PROPOSED SILT FENCE
x x x x x	EXISTING FENCE
	EXISTING SANITARY SEWER PIPE
STRM	EXISTING STORM DRAIN PIPE
	EXISTING WATER PIPE
	EXISTING GAS LINE
FM	EXISTING FORCEMAIN
OHW	EXISTING OVERHEAD WIRE
	EXISTING STORM CATCH BASIN
0	EXISTING STORM MANHOLE
S	EXISTING SANITARY SEWER MANHOLE
	EXISTING SIGN
	EXISTING LIGHT POLE
\bowtie	EXISTING WATER VALVE
	EXISTING HYDRANT
	EXIST. TO BE REMOVED
	PROPOSED DROP INLET SEDIMENT BARRIEF

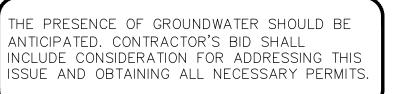
NOTES

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PROPOSED TURBIDITY BARRIER

- COST TO THE OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION. 3. GENERAL EROSION CONTROL BMPS SHALL BE EMPLOYED TO MINIMIZE SOIL EROSION. WHILE THE VARIOUS TECHNIQUES REQUIRED WILL BE SITE AND PLAN SPECIFIC, THEY SHOULD BE EMPLOYED AS SOON AS POSSIBLE DURING CONSTRUCTION.
- 4. CONTRACTOR TO VERIFY LOCATION OF ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION, CONTRACTOR TO NOTIFY ENGINEER OF ANY CONFLICTS.
- 5. 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.

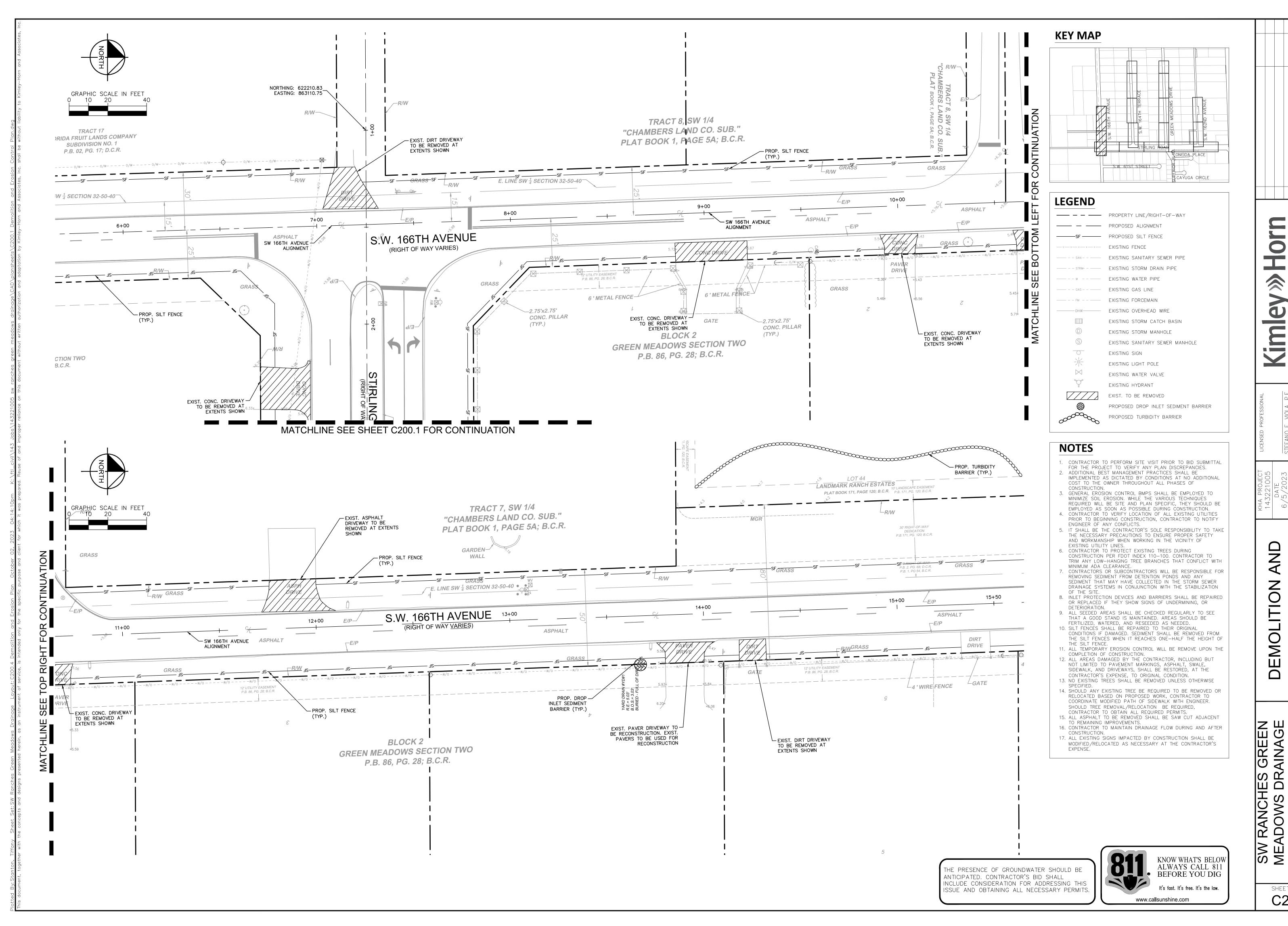
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- 8. INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING, OR
- DETERIORATION. 9. ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE
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- 14. SHOULD ANY EXISTING TREE BE REQUIRED TO BE REMOVED OR RELOCATED BASED ON PROPOSED WORK, CONTRACTOR TO COORDINATE MODIFIED PATH OF SIDEWALK WITH ENGINEER. SHOULD TREE REMOVAL/RELOCATION BE REQUIRED, CONTRACTOR TO OBTAIN ALL REQUIRED PERMITS.
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- 16. CONTRACTOR TO MAINTAIN DRAINAGE FLOW DURING AND AFTER
- CONSTRUCTION. 17. ALL EXISTING SIGNS IMPACTED BY CONSTRUCTION SHALL BE MODIFIED/RELOCATED AS NECESSARY AT THE CONTRACTOR'S





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LANTATION, FL 33324
954-739-2247
GISTRY No. 696
No.

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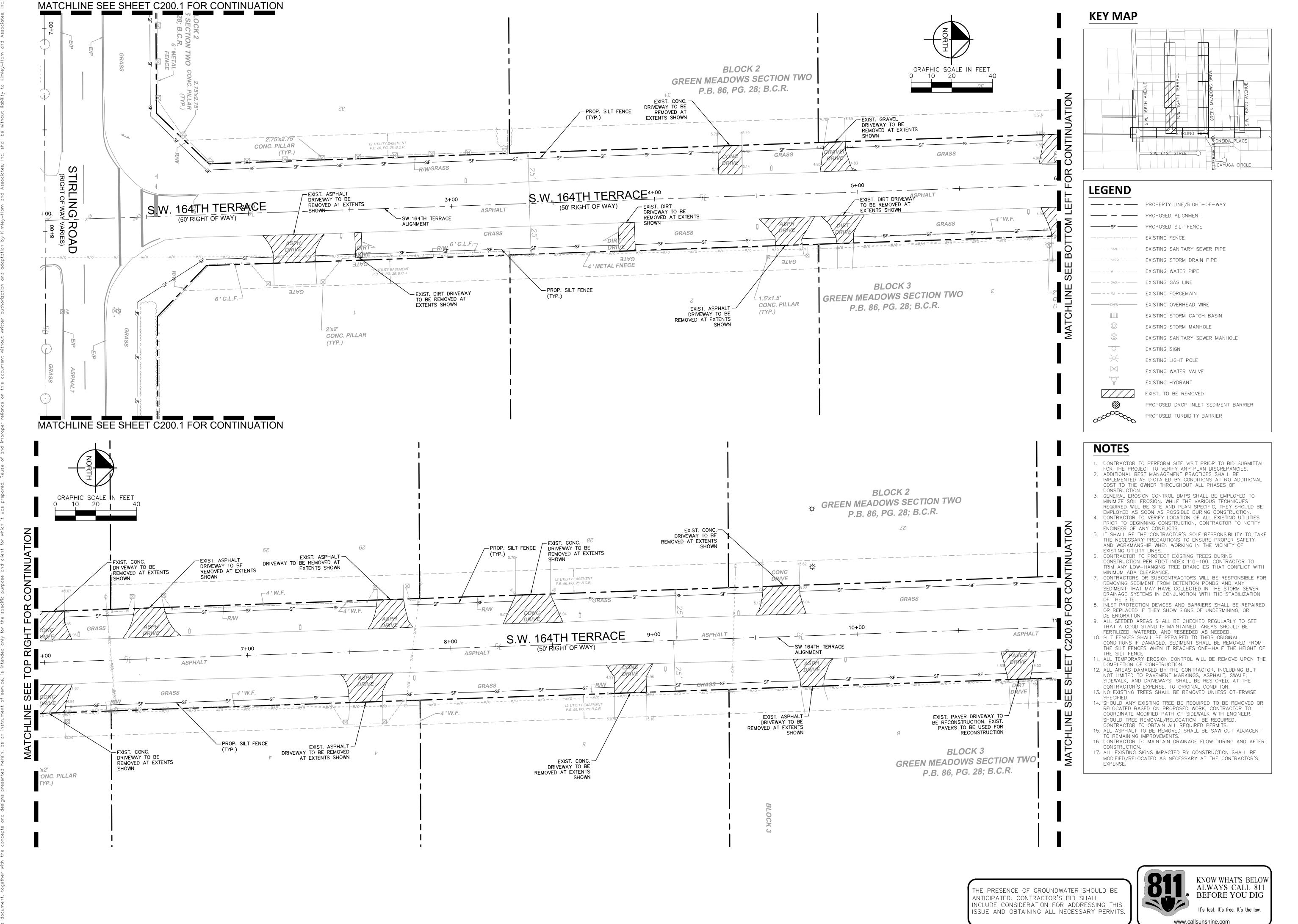
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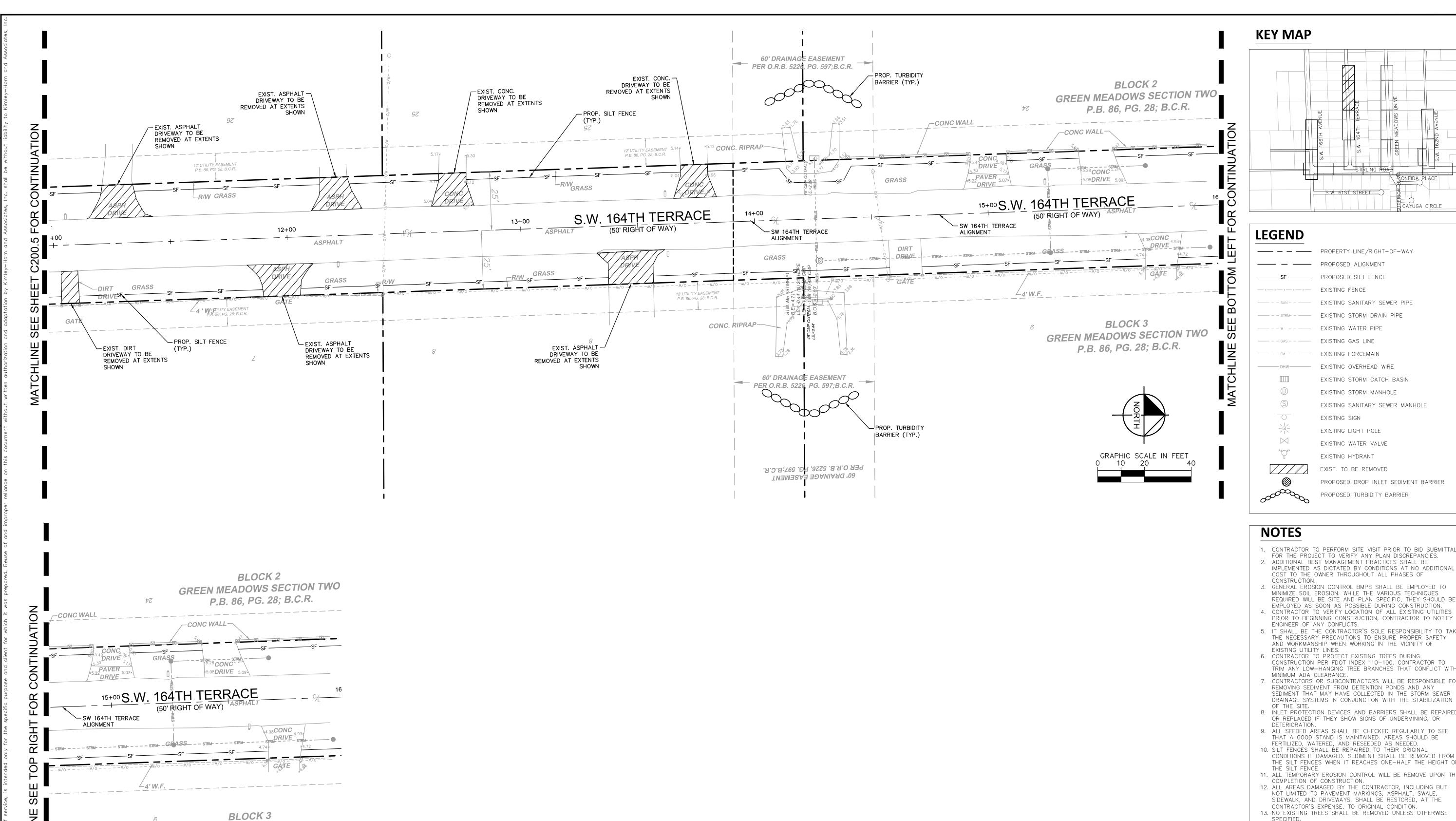


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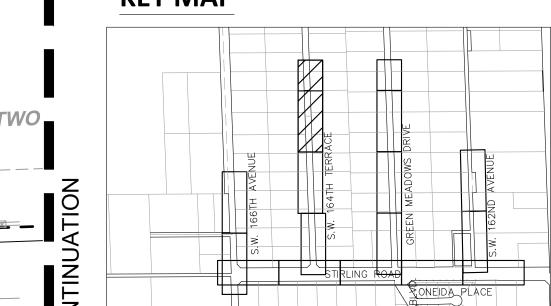
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GREEN MEADOWS SECTION TWO

P.B. 86, PG. 28; B.C.R.



S.W. 61ST STREET

CAYUGA CIRCLE

----- PROPOSED ALIGNMENT EXISTING FENCE EXISTING SANITARY SEWER PIPE EXISTING STORM DRAIN PIPE EXISTING WATER PIPE EXISTING GAS LINE EXISTING FORCEMAIN EXISTING OVERHEAD WIRE EXISTING STORM CATCH BASIN EXISTING STORM MANHOLE EXISTING SANITARY SEWER MANHOLE EXISTING SIGN EXISTING LIGHT POLE EXISTING WATER VALVE EXISTING HYDRANT EXIST. TO BE REMOVED

1. CONTRACTOR TO PERFORM SITE VISIT PRIOR TO BID SUBMITTAL FOR THE PROJECT TO VERIFY ANY PLAN DISCREPANCIES. 2. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST TO THE OWNER THROUGHOUT ALL PHASES OF

PROPOSED TURBIDITY BARRIER

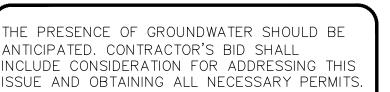
PROPOSED DROP INLET SEDIMENT BARRIER

- CONSTRUCTION. 3. GENERAL EROSION CONTROL BMPS SHALL BE EMPLOYED TO MINIMIZE SOIL EROSION. WHILE THE VARIOUS TECHNIQUES REQUIRED WILL BE SITE AND PLAN SPECIFIC, THEY SHOULD BE EMPLOYED AS SOON AS POSSIBLE DURING CONSTRUCTION. 4. CONTRACTOR TO VERIFY LOCATION OF ALL EXISTING UTILITIES
- PRIOR TO BEGINNING CONSTRUCTION, CONTRACTOR TO NOTIFY ENGINEER OF ANY CONFLICTS.
- 5. 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.

 6. CONTRACTOR TO PROTECT EXISTING TREES DURING CONSTRUCTION PER FDOT INDEX 110-100. CONTRACTOR TO TRIM ANY LOW-HANGING TREE BRANCHES THAT CONFLICT WITH MINIMUM ADA CLEARANCE. 7. CONTRACTORS OR SUBCONTRACTORS WILL BE RESPONSIBLE FOR
- DRAINAGE SYSTEMS IN CONJUNCTION WITH THE STABILIZATION OF THE SITE. 8. INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING, OR
- 9. ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE
- THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED, WATERED, AND RESEEDED AS NEEDED. 10. SILT FENCES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM
- THE SILT FENCES WHEN IT REACHES ONE—HALF THE HEIGHT OF THE SILT FENCE. 11. ALL TEMPORARY EROSION CONTROL WILL BE REMOVE UPON THE COMPLETION OF CONSTRUCTION.
- 12. ALL AREAS DAMAGED BY THE CONTRACTOR, INCLUDING BUT NOT LIMITED TO PAVEMENT MARKINGS, ASPHALT, SWALE, SIDEWALK, AND DRIVEWAYS, SHALL BE RESTORED, AT THE
- CONTRACTOR'S EXPENSE, TO ORIGINAL CONDITION. 13. NO EXISTING TREES SHALL BE REMOVED UNLESS OTHERWISE 14. SHOULD ANY EXISTING TREE BE REQUIRED TO BE REMOVED OR

RELOCATED BASED ON PROPOSED WORK, CONTRACTOR TO

- COORDINATE MODIFIED PATH OF SIDEWALK WITH ENGINEER. SHOULD TREE REMOVAL/RELOCATION BE REQUIRED, CONTRACTOR TO OBTAIN ALL REQUIRED PERMITS. 15. ALL ASPHALT TO BE REMOVED SHALL BE SAW CUT ADJACENT
- TO REMAINING IMPROVEMENTS. 16. CONTRACTOR TO MAINTAIN DRAINAGE FLOW DURING AND AFTER
- CONSTRUCTION. 17. ALL EXISTING SIGNS IMPACTED BY CONSTRUCTION SHALL BE MODIFIED/RELOCATED AS NECESSARY AT THE CONTRACTOR'S



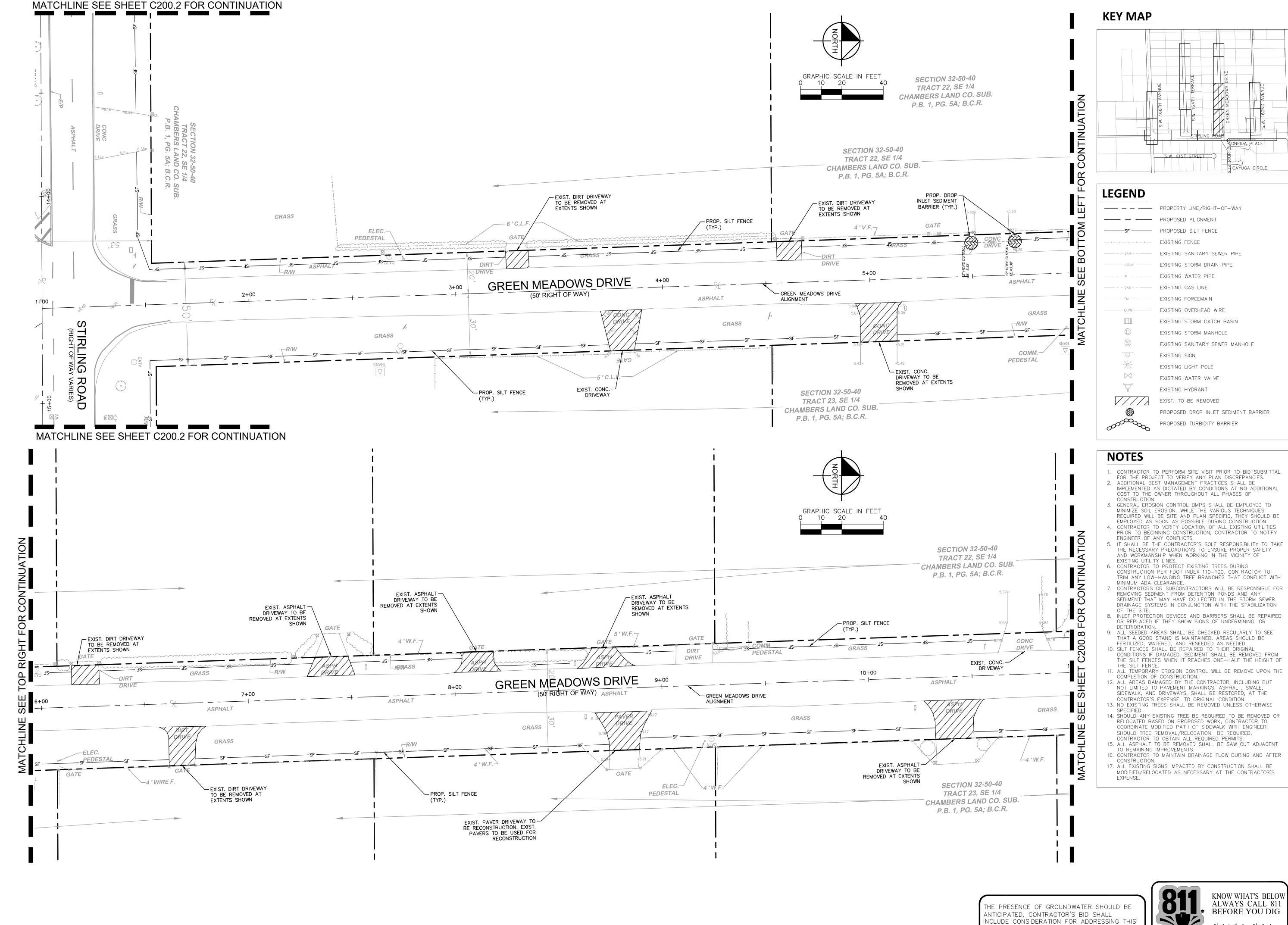


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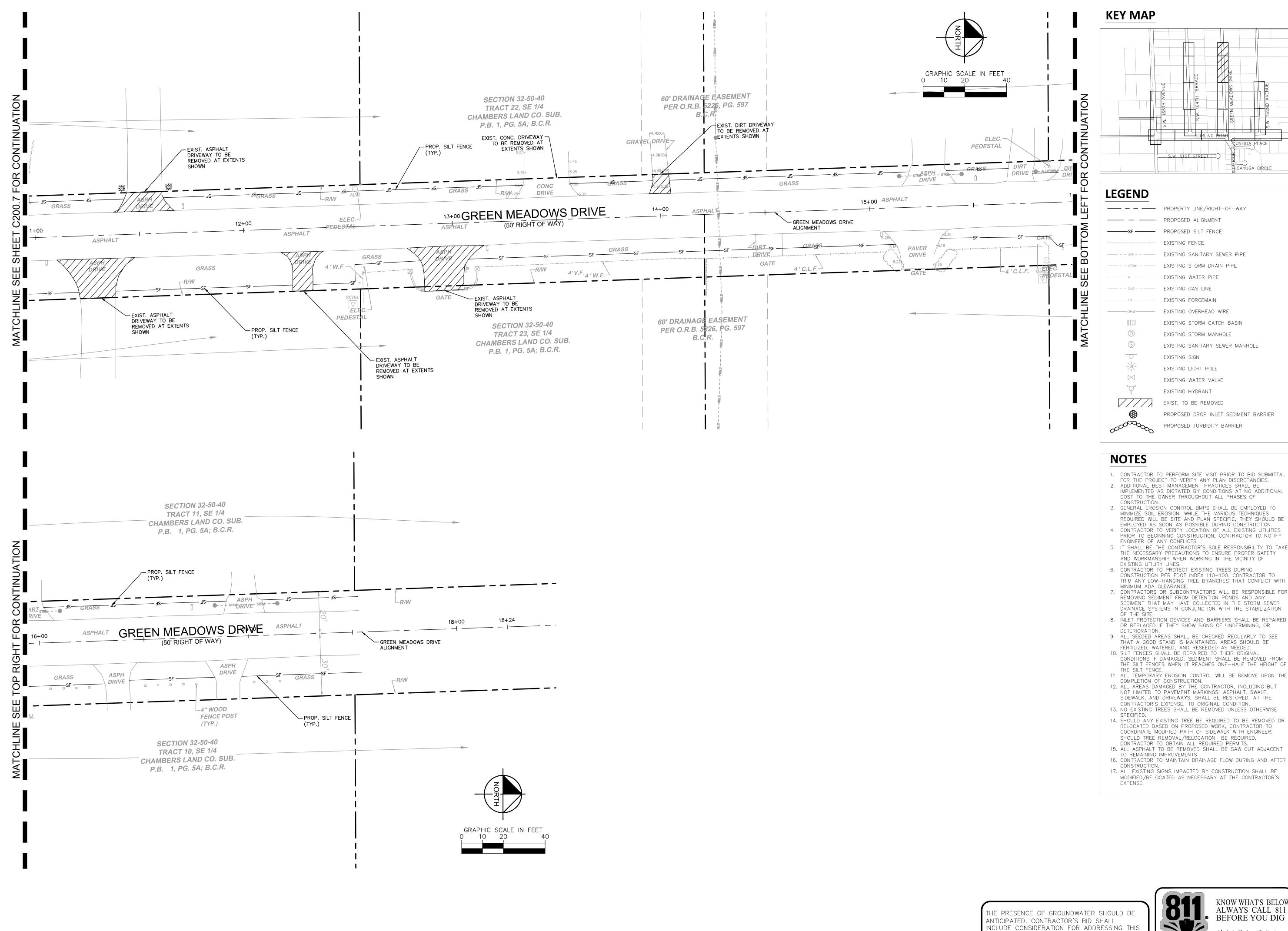
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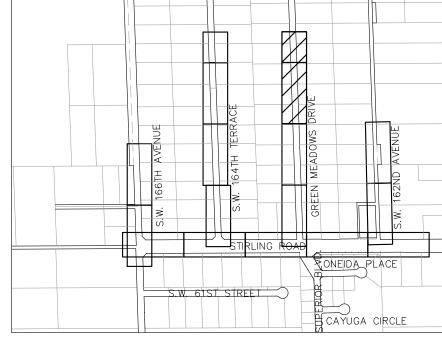
SSUE AND OBTAINING ALL NECESSARY PERMITS

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EXISTING FENCE EXISTING SANITARY SEWER PIPE EXISTING STORM DRAIN PIPE EXISTING WATER PIPE EXISTING GAS LINE EXISTING FORCEMAIN EXISTING OVERHEAD WIRE EXISTING STORM CATCH BASIN EXISTING STORM MANHOLE EXISTING SANITARY SEWER MANHOLE EXISTING SIGN EXISTING LIGHT POLE EXISTING WATER VALVE EXISTING HYDRANT EXIST. TO BE REMOVED PROPOSED DROP INLET SEDIMENT BARRIER

- 1. CONTRACTOR TO PERFORM SITE VISIT PRIOR TO BID SUBMITTAL FOR THE PROJECT TO VERIFY ANY PLAN DISCREPANCIES. 2. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST TO THE OWNER THROUGHOUT ALL PHASES OF
- 3. GENERAL EROSION CONTROL BMPS SHALL BE EMPLOYED TO MINIMIZE SOIL EROSION. WHILE THE VARIOUS TECHNIQUES REQUIRED WILL BE SITE AND PLAN SPECIFIC, THEY SHOULD BE EMPLOYED AS SOON AS POSSIBLE DURING CONSTRUCTION. 4. CONTRACTOR TO VERIFY LOCATION OF ALL EXISTING UTILITIES
- PRIOR TO BEGINNING CONSTRUCTION, CONTRACTOR TO NOTIFY ENGINEER OF ANY CONFLICTS. 5. 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.
 6. CONTRACTOR TO PROTECT EXISTING TREES DURING
- CONSTRUCTION PER FDOT INDEX 110-100. CONTRACTOR TO TRIM ANY LOW-HANGING TREE BRANCHES THAT CONFLICT WITH MINIMUM ADA CLEARANCE.
- 7. CONTRACTORS OR SUBCONTRACTORS WILL BE RESPONSIBLE FOR REMOVING SEDIMENT FROM DETENTION PONDS AND ANY SEDIMENT THAT MAY HAVE COLLECTED IN THE STORM SEWER DRAINAGE SYSTEMS IN CONJUNCTION WITH THE STABILIZATION
- 8. INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING, OR
- 9. ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE
- 10. SILT FENCES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE SILT FENCES WHEN IT REACHES ONE-HALF THE HEIGHT OF
- COMPLETION OF CONSTRUCTION. 12. ALL AREAS DAMAGED BY THE CONTRACTOR, INCLUDING BUT NOT LIMITED TO PAVEMENT MARKINGS, ASPHALT, SWALE,
- SIDEWALK, AND DRIVEWAYS, SHALL BE RESTORED, AT THE CONTRACTOR'S EXPENSE, TO ORIGINAL CONDITION.
- 13. NO EXISTING TREES SHALL BE REMOVED UNLESS OTHERWISE 14. SHOULD ANY EXISTING TREE BE REQUIRED TO BE REMOVED OR RELOCATED BASED ON PROPOSED WORK, CONTRACTOR TO
- CONTRACTOR TO OBTAIN ALL REQUIRED PERMITS. 15. ALL ASPHALT TO BE REMOVED SHALL BE SAW CUT ADJACENT
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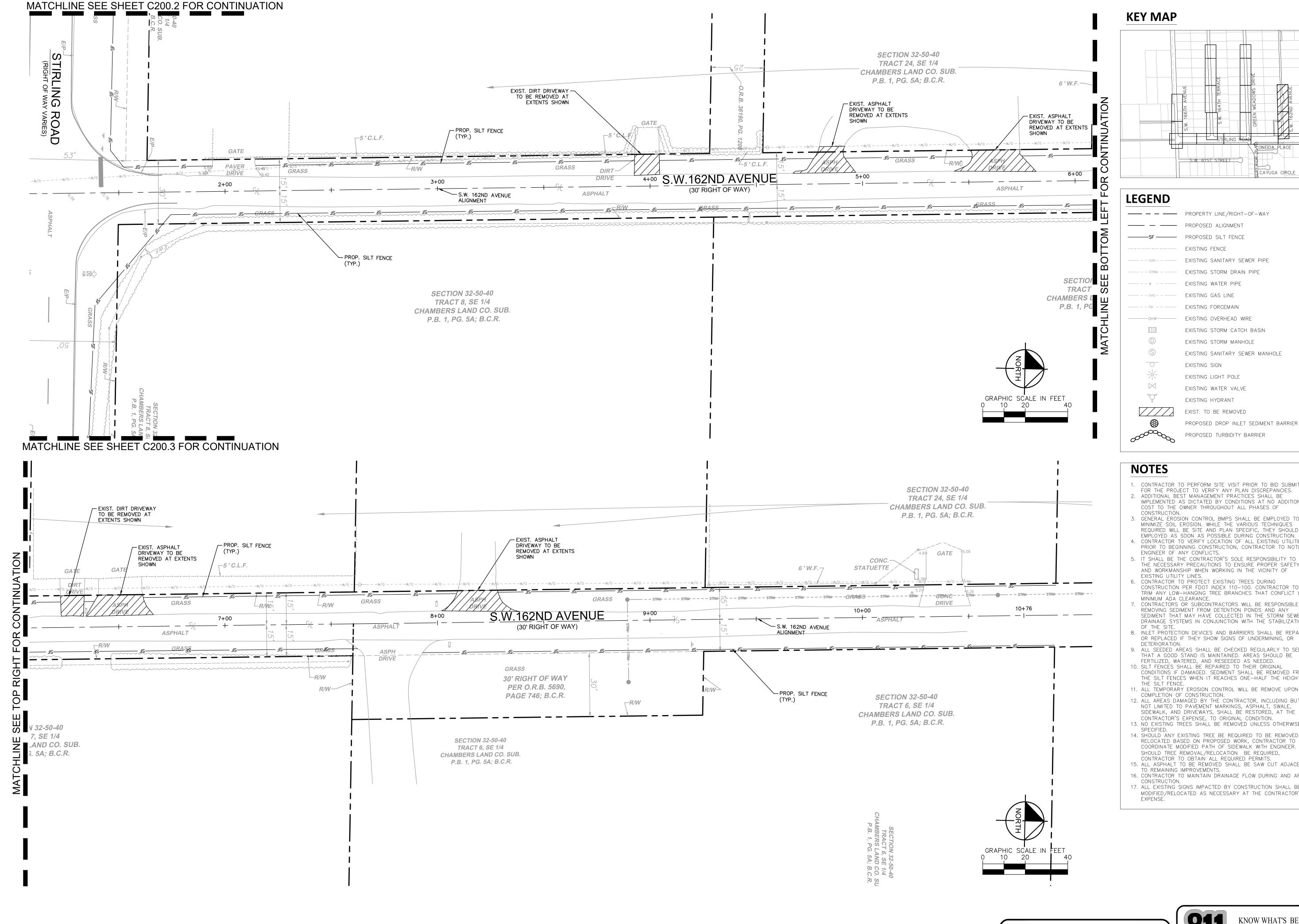
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ISSUE AND OBTAINING ALL NECESSARY PERMITS



S.W. 61ST STREET CAYUGA CIRCLE

EXISTING FENCE EXISTING SANITARY SEWER PIPE EXISTING STORM DRAIN PIPE EXISTING WATER PIPE EXISTING GAS LINE EXISTING FORCEMAIN EXISTING OVERHEAD WIRE EXISTING STORM CATCH BASIN EXISTING STORM MANHOLE EXISTING SANITARY SEWER MANHOLE EXISTING SIGN EXISTING LIGHT POLE EXISTING WATER VALVE EXISTING HYDRANT EXIST. TO BE REMOVED PROPOSED DROP INLET SEDIMENT BARRIER

- 1. CONTRACTOR TO PERFORM SITE VISIT PRIOR TO BID SUBMITTAL FOR THE PROJECT TO VERIFY ANY PLAN DISCREPANCIES. 2. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS AT NO ADDITIONAL
- 3. GENERAL EROSION CONTROL BMPS SHALL BE EMPLOYED TO MINIMIZE SOIL EROSION. WHILE THE VARIOUS TECHNIQUES REQUIRED WILL BE SITE AND PLAN SPECIFIC, THEY SHOULD BE EMPLOYED AS SOON AS POSSIBLE DURING CONSTRUCTION.
- 4. CONTRACTOR TO VERIFY LOCATION OF ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION, CONTRACTOR TO NOTIFY ENGINEER OF ANY CONFLICTS.
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- 8. INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING, OR
- 9. ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE
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 13. NO EXISTING TREES SHALL BE REMOVED UNLESS OTHERWISE 14. SHOULD ANY EXISTING TREE BE REQUIRED TO BE REMOVED OR RELOCATED BASED ON PROPOSED WORK, CONTRACTOR TO
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- 16. CONTRACTOR TO MAINTAIN DRAINAGE FLOW DURING AND AFTER
- 17. ALL EXISTING SIGNS IMPACTED BY CONSTRUCTION SHALL BE MODIFIED/RELOCATED AS NECESSARY AT THE CONTRACTOR'S

HE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS



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- THIS PLAN HAS BEEN PREPARED TO ENSURE COMPLIANCE WITH APPROPRIATE CONDITIONS OF THE BROWARD COUNTY LAND DEVELOPMENT REGULATIONS, THE RULES OF THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP), CHAPTER 17-25, F.A.C., THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT (SFWMD), CHAPTER 40D-4, F.A.C. AND THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (EPA) DOCUMENT NO. EPA 832/R-92-005 (SEPTEMBER 1992). THE PLAN ADDRESSES THE FOLLOWING:
- a. PREVENT LOSS OF SOIL DURING CONSTRUCTION BY STORMWATER RUNOFF AND/OR WIND EROSION, INCLUDING PROTECTING TOPSOIL BY STOCKPILING FOR REUSE.
- SEDIMENTION PROTECTION OF STORM SEWER OR RECEIVING STREAM. PREVENT POLLUTING THE AIR WITH DUST AND PARTICULATE MATTER. THE VARIOUS TECHNIQUES OR ACTIONS IDENTIFIED UNDER EACH SECTION INDICATE THE APPROPRIATE SITUATION WHEN THE TECHNIQUES SHOULD BE EMPLOYED. ALSO IDENTIFIED IS A CROSS-REFERENCE TO A DIAGRAM OR FIGURE REPRESENTING THE TECHNIQUE. IT SHOULD BE NOTED THAT THE MEASURES IDENTIFIED ON THIS PLAN ARE ONLY SUGGESTED BMP(S). THE CONTRACTOR SHALL PROVIDE POLLUTION PREVENTION AND EROSION CONTROL MEASURES AS SPECIFIED IN ACCORDANCE WITH THE CURRENT FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) REQUIREMENTS. CONTRACTOR SHALL PREPARE REQUIRED NPDES DOCUMENTATION AND OBTAIN PERMIT PRIOR TO COMMENCEMENT OF CONSTRUCTION. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO PREPARE THE REQUIRED NPDES DOCUMENT AND OBTAIN THE NPDES PERMIT. ALL COST ASSOCIATED WITH SUCH WORK SHALL BE DEEMED INCIDENTAL TO THE PROJECT COST AND SHALL BE INCLUDED IN THE BID.
- B. <u>GENERAL EROSION CONTROL NOTES</u>
- THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IS COMPRISED OF THESE EROSION CONTROL DRAWINGS. THE STANDARD DETAILS, THE NPDES PERMIT (TO BE OBTAINED BY CONTRACTOR) AND ALL SUBSEQUENT REPORTS AND RELATED DOCUMENTS
- ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED WITH STORM WATER POLLUTION PREVENTION SHALL OBTAIN A COPY OF THIS DRAWING AND THE STATE OF FLORIDA NATIONAL POLLUTANT DISCHARGE ELIMINATION
- SYSTEM GENERAL PERMIT (NPDES PERMIT) AND BECOME FAMILIAR WITH THEIR CONTENTS. CONTRACTOR SHALL OBTAIN ANY NECESSARY DEWATERING PERMITS AS SITE CONDITIONS AND CONSTRUCTION
- CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES (BMP) IN ALL CONSTRUCTION ACTIVITIES INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
- a. FUEL SPILLS AND LEAKS PREVENTION PREVENT/REDUCE VEHICLE AND EQUIPTMENT WASHING AND STEAM CLEANING
- c. VEHICLE AND EQUIPTMENT MAINTENANCE AND REPAIR d. PROPER OUTDOOR LOADING/UNLOADING OF MATERIALS
- e. PREVENT/REDUCE OUTDOOR STORAGE OF RAW MATERIALS, PRODUCTS, AND BY-PRODUCTS
- SOLID WASTE MANAGEMENT HAZARDOUS WASTE MANAGEMEN
- CONCRETE WASTE MANAGEMENT SANDBLASTING WASTE MANAGEMENT
- STRUCTURE CONSTRUCTION AND PAINTING
- SPILL PREVENTION AND CONTROL I. CONTAMINATED SOIL MANAGEMENT
- m. SANITARY/SEPTIC WASTE MANAGEMENT n. SOIL EROSION CONTROL
- o. STORM WATER TURBIDITY MANAGEMENT ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST TO THE OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION. BEST MANAGEMENT PRACTICES (BMPS) AND CONTROLS SHALL CONFORM TO FEDERAL, STATE, OR LOCAL
- REQUIREMENTS OR MANUAL OF PRACTICE, AS APPLICABLE. CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY PERMITTING AGENCY OR OWNER. SITE MAP MUST CLEARLY DELINEATE ALL STATE WATERS. CONTRACTOR MUST MAINTAIN ALL PERMITS FOR ANY CONSTRUCTION ACTIVITY IMPACTING STATE WATERS OR REGULATED WETLANDS ON SITE AT ALL TIMES.
- CONTRACTOR SHALL MINIMIZE CLEARING TO THE MAXIMUM EXTENT PRACTICAL OR AS REQUIRED BY THE GENERAL PERMIT CONTRACTOR SHALL BEGIN CLEARING AND GRUBBING THOSE PORTIONS OF THE SITE NECESSARY TO
- IMPLEMENT PERIMETER CONTROL MEASURES. CLEARING AND GRUBBING FOR THE REMAINING PORTIONS OF THE PROPOSED SITE SHALL COMMENCE ONCE PERIMETER CONTROLS ARE IN PLACE. PERIMETER CONTROLS SHALL BE ACTIVELY MAINTAINED UNTIL SAID AREAS HAVE BEEN STABILIZED AND SHALL BE REMOVED ONCE FINAL STABILIZATION IS COMPLETE. 10. GENERAL EROSION CONTROL BMPS SHALL BE EMPLOYED TO MINIMIZE SOIL EROSION AND POTENTIAL LAKE
- SLOPE CAVE-INS. WHILE THE VARIOUS TECHNIQUES REQUIRED WILL BE SITE AND PLAN SPECIFIC, THEY SHOULD BE EMPLOYED AS SOON AS POSSIBLE DURING CONSTRUCTION. ON-SITE & OFF-SITE SOIL STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND
- SEDIMENTATION THROUGH IMPLEMENTATION OF BEST MANAGEMENT PRACTICES. STOCKPILE AND BORROW AREA LOCATIONS SHALL BE NOTED ON THE SITE MAP AND PERMITTED IN ACCORDANCE WITH GENERAL PERMIT REQUIREMENTS. 12. SURFACE WATER QUALITY SHALL BE MAINTAINED BY EMPLOYING THE FOLLOWING BMP'S IN THE CONSTRUCTION
- PLANNING AND CONSTRUCTION OF ALL IMPROVEMENTS. 13. IT SHOULD BE NOTED THAT THE MEASURE IDENTIFIED ON THIS PLAN ARE ONLY SUGGESTED BMP(S). THE CONTRACTOR SHALL PROVIDE POLLUTION PREVENTION AND EROSION CONTROL MEASURES AS NECESSARY TO
- CONFORM TO CURRENT CITY, FDEP AND SFWMD CODES AND SPECIFICATIONS. 14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECTION OF ANY EROSION OR WATER QUALITY PROBLEMS THAT RESULT FROM THE CONSTRUCTION ACTIVITIES.
- STORM WATER EROSION CONTROL PRACTICES
- CONTRACTORS OR SUBCONTRACTORS WILL BE RESPONSIBLE FOR REMOVING SEDIMENT FROM DETENTION PONDS AND ANY SEDIMENT THAT MAY HAVE COLLECTED IN THE STORM SEWER DRAINAGE SYSTEMS IN CONJUNCTION
- WITH THE STABILIZATION OF THE SITE SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION.
- DUE TO THE GRADE CHANGES DURING THE DEVELOPMENT OF THE PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION CONTROL MEASURES (COMPOST SOCK DEVICES, ETC.) TO PREVENT
- WHERE PRACTICAL, STORMWATER SHALL BE CONVEYED BY SWALES.
- EROSION CONTROL MEASURES SHALL BE EMPLOYED TO MINIMIZE TURBIDITY OF SURFACE WATERS LOCATED DOWNSTREAM OF ANY CONSTRUCTION ACTIVITY. WHILE THE VARIOUS MEASURES REQUIRED WILL BE SITE SPECIFIC, THEY SHALL BE EMPLOYED AS NEEDED IN ACCORDANCE WITH THE FOLLOWING:
- IN GENERAL, EROSION SHALL BE CONTROLLED AT THE FURTHEST PRACTICAL UPSTREAM LOCATION. b. STORMWATER INLETS SHALL BE PROTECTED DURING CONSTRUCTION. PROTECTION MEASURES SHALL BE EMPLOYED AS SOON AS PRACTICAL DURING THE VARIOUS STAGES OF INLET CONSTRUCTION. SILT BARRIERS SHALL REMAIN IN PLACE UNTIL SODDING AROUND INLETS IS COMPLETE.
- WHEN NEEDED A TEMPORARY SEDIMENT TRAP SHOLD BE CONSTRUCTED TO DETAIN SEDIMENT-LADEN RUNOFF FROM DISTURBED AREAS. SILT BARRIERS, ANY SILT WHICH ACCUMULATES BEHIND THE BARRIERS, AND ANY FILL USED TO ANCHOR THE

BARRIERS SHALL BE REMOVED PROMPTLY AFTER THE END OF THE MAINTENANCE PERIOD SPECIFIED FOR THE

- SLOPES OF BANKS OF RETENTION/DETENTION PONDS SHALL BE CONSTRUCTED NOT STEEPER THAN 3H:1V
- FROM TOP OF BANK TO TWO FEET BELOW NORMAL WATER LEVEL, AS APPLICABLE. SOD SHALL BE PLACED FOR A 2-FOOT WIDE STRIP ADJOINING ALL CURBING AND AROUND ALL INLETS. SOD
- SHALL BE PLACED BEFORE SILT BARRIERS ARE REMOVED. WHERE REQUIRED TO PREVENT EROSION FROM SHEET FLOW ACROSS BARE GROUND FROM ENTERING A LAKE
- OR SWALE, A TEMPORARY SEDIMENT SUMP SHALL BE CONSTRUCTED. FILTER FABRIC SHOULD BE USED FOR STORM DRAIN INLET PROTECTION BEFORE FINAL STABILIZATION
- FLOATING TURBIDITY BARRIERS SHALL BE INSTALLED PRIOR TO CONSTRUCTION AND INSTALLATION OF DRAINAGE OUTFALL PIPE AND ENDWALL.
- 12. EXISTING DRAINAGE FLOW PATTERNS AND POSITIVE DRAINAGE TO EXISTING OUTFALLS SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.
- 13. ALL NEW INLETS INSTALLED UNDER THIS PROJECT SHALL RECEIVE IN LET PROTECTION.
- D. WIND EROSION CONTROL PRACTICES
- WIND EROSION SHALL BE CONTROLLED BY EMPLOYING THE FOLLOWING METHODS AS NECESSARY AND
- APPROPRIATE: a. BARE EARTH AREAS SHALL BE WATERED DURING CONSTRUCTION AS NECESSARY TO MINIMIZE THE TRANSPORT OF FUGITIVE DUST. IT MAY BE NECESSARY TO LIMIT CONSTRUCTION VEHICLE SPEED IF BARE EARTH HAS NOT BEEN EFFECTIVELY WATERED. IN NO CASE SHALL FUGITIVE DUST BE ALLOWED TO LEAVE THE SITE UNDER CONSTRUCTION.
- b. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HASPERMANENTLY STOPPED SHALL BE PERMANENTLY SEEDED (SEE PERMANENT STABALIZATION PRACTICES FOR DETAILS). THESE AREAS SHALL BE SEEDED NO LATER THAN 14 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY OCCURRING IN THESE AREAS. REFER TO THE GRADING PLAN AND/OR LANDSCAPE PLAN. CLEARED SITE DEVELOPMENT AREAS NOT CONTINUALLY SCHEDULED FOR CONSTRUCTION ACTIVITIES SHALL BE COVERED WITH HAY OR OVERSEEDED AND PERIODICALLY WATERED SUFFICIENTLY TO STABILIZE THE TEMPORARY GROUNDCOVER (SEE TEMPORARY STABALIZATION PRACTICES FOR DETAILS).
- c. AT ANY TIME BOTH DURING AND AFTER SITE CONSTRUCTION THAT WATERING AND/OR VEGETATION ARE NOT EFFECTIVE IN CONTROLLING WIND EROSION AND/OR TRANSPORT OF FUGITIVE DUST, OTHER METHODS AS ARE NECESSARY FOR SUCH CONTROL SHALL BE EMPLOYED. THESE METHODS SHOULD INCLUDE ERECTION OF DUST CONTROL FENCES. A 6-FT GEOTEXTILE FILTER FIBER SHOULD BE HANGING AGAINST THE EXISTING CHAIN LINK
- ALL DUST ON THE SITE SHALL BE CONTROLLED. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.
- STABILIZATION PRACTICES
- SHALL BE IN ACCORDANCE WITH DEP DOCUMENT NO 62-621.300(4)(a DISTURBED PORTIONS OF SITE WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASE FOR AT LEAST 21 DAYS,
- SHALL BE STABILIZED WITH TEMPORARY SEED AND MULCH NO LATER THAN 14 DAYS FROM THE LAST CONSTRUCTION ACTIVITY IN THAT AREA.
- DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY PERMANENTLY CEASE SHALL BE STABILIZED WITH SOD NO LATER THAN 14 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY.
- 1. SHALL BE IN ACCORDANCE WITH DEP DOCUMENT NO 62-621.300(4)(a)
- G. <u>WASTE DISPOSAL</u>
- WASTE MATERIALS ALL WASTE MATERIALS SHALL BE COLLECTED AND STORED IN A METAL DUMPSTER WITH A SECURE LID IN ACCORDANCE WITH ALL LOCAL AND STATE LAWS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE SHALL BE DEPOSITED IN THE DUMPSTER. THE SUPERINTENDENT SHALL COORDINATE WITH THE LOCAL UTILITIES TO HAVE THE DUMPSTER EMPTIED AT LEAST TWICE A WEEK AND THE WASTE TAKEN TO AN APPROPRIATE LANDFILL. NO CONSTRUCTION WASTE MATERIALS SHALL BE BURIED ON SITE. THE SUPERINTENDENT SHALL ORGANIZE TRAINING FOR THE EMPLOYEES IN THE PROPER PRACTICES WHEN DEALING WITH WASTE MATERIALS. THE SUPERINTENDENT SHALL BE RESPONSIBLE FOR POSTING AND ENFORCING WASTE MATERIAL PROCEDURES.

- 2. HAZARDOUS WASTE HAZARDOUS WASTE MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL LOCAL AND STATE LAWS OR AS DIRECTED BY THE MANUFACTURER. THE SUPERINTENDENT SHALL ORGANIZE THE PROPER TRAINING FOR EMPLOYEES IN THE PROPER PRACTICES WHEN DEALING WITH HAZARDOUS WASTE MATERIALS. THESE PROCEDURES SHALL BE POSTED ON THE SITE. THE PERSON WHO MANAGES THE SITE SHALL BE RESPONSIBLE FOR ENFORCING THE PROCEDURES.
- 3. SANITARY WASTE SANITARY WASTE SHALL BE COLLECTED AND DISPOSED OF IN ACCORDANCE WITH ALL LOCAL AND STATE LAWS. THE SUPERINTENDENT SHALL COORDINATE WITH THE LOCAL UTILITY FOR COLLECTION OF THE SANITARY WASTE AT LEAST THREE TIMES A WEEK TO PREVENT SPILLAGE ONTO THE SITE
- RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORM WATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE.
- H. <u>OFFSITE T</u>RACKING
- 1. STABILIZED CONSTRUCTION ENTRANCE SHALL BE PROVIDED TO REDUCE SEDIMENT TRACKING OFFSITE. THE MAJOR ROAD CONNECTED TO THE PROJECT SHALL BE CLEANED ONCE A DAY TO REMOVE ANY EXCESS MUD, DIRT OR ROCK RESULTING FROM CONSTRUCTION TRAFFIC. ALL TRUCKS HAULING MATERIALS OFFSITE SHALL BE COVERED WITH A TARPAULIN.
- GENERAL CONTRACTOR SHALL DENOTE ON PLAN THE TEMPORARY PARKING AND STORAGE AREA WHICH SHALL ALSO BE USED AS THE EQUIPMENT MAINTENANCE AND CLEANING AREA, EMPLOYEE PARKING AREA. AND AREA FOR LOCATION PORTABLE FACILITIES, OFFICE TRAILERS, AND TOILET FACILITIES. HEAVY CONSTRUCTION EQUIPMENT PARKING AND MAINTENANCE AREAS SHALL BE DESIGNED TO PREVENT OIL, GREASE, AND LUBRICANTS FROM ENTERING SITE DRAINAGE FEATURES INCLUDING STORMWATER COLLECTION AND TREATMENT SYSTEMS. CONTRACTORS SHALL PROVIDE BROAD DIKES, HAY BALES OR SILT SCREENS AROUND, AND SEDIMENT SUMPS WITHIN, SUCH AREAS AS REQUIRED TO CONTAIN SPILLS OF OIL, GREASE OR LUBRICANTS CONTRACTORS SHALL HAVE AVAILABLE, AND SHALL USE, ABSORBENT FILTER PADS TO CLEAN UP SPILLS AS
- SOON AS POSSIBLE AFTER OCCURRENCE. ALL WASH WATER FROM CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC. SHALL BE DETAINED ON SITE AND SHALL BE PROPERLY TREATED OR DISPOSED.
- IF THE ACTION OF VEHICLES TRAVELING OVER THE GRAVEL CONSTRUCTION ENTRANCES IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF DIRT OR MUD, THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLES ENTER A PUBLIC ROAD. IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF THE SITE. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM
- DRAINS MUST BE REMOVED IMMEDIATELY.
- I. MAINTENANCE
- ALL MEASURES STATED ON THIS EROSION AND SEDIMENT CONTROL PLAN, AND IN THE STORM WATER POLLUTION PREVENTION PLAN. SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A 0.5" RAINFALL EVENT, AND CLEANED AND REPAIRED IN ACCORDANCE WITH THE FOLLOWING:
- a. INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING, OR DETERIORATION. b. ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS
- SHOULD BE FERTILIZED, WATERED, AND RESEEDED AS NEEDED. THE COMPOST ROCK FILTRATION DEVICE SHALL BE INSPECTED PERIODICALLY FOR HEIGHT OF SEDIMENT AND CONDITION OF DEVICE. COMPOST SOCK SHALL BE REPAIRED TO ITS ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE COMPOST SOCK WHEN IT REACHES ONE-THIRD THE HEIGHT OF THE COMPOST SOCK.
- d. THE CONSTRUCTION ENTRANCES SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE CONSTRUCTION ENTRANCES AS CONDITIONS DEMAND.
- e. THE TEMPORARY PARKING AND STORAGE AREA SHALL BE KEPT IN GOOD CONDITION (SUITABLE FOR PARKING AND STORAGE). THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE TEMPORARY PARKING AS CONDITIONS f. OUTLET STRUCTURES IN THE SEDIMENTATION BASINS SHALL BE MAINTAINED IN OPERATIONAL CONDITIONS AT
- ALL TIMES. THE SEDIMENT BASINS/DITCHES SHALL BE CHECKED MONTHLY FOR DEPTH OF SEDIMENT. SEDIMENT SHALL BE REMOVED FROM SEDIMENT BASINS OR TRAPS WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY 10% AND AFTER CONSTRUCTION IS COMPLETE.
- g. ALL MAINTENANCE OPERATIONS SHALL BE DONE IN A TIMELY MANNER BUT IN NO CASE LATER THAN SEVEN CALENDAR DAYS FOLLOWING THE INSPECTION.DIVERSION DIKES SHALL BE INSPECTED MONTHLY. ANY BREACHES SHALL BE PROMPTLY REPAIRED. h. A MAINTENANCE REPORT SHALL BE COMPLETED DAILY AFTER EACH INSPECTION OF THE SEDIMENT AND
- EROSION CONTROL METHODS. THE REPORTS SHALL BE FILED IN AN ORGANIZED MANNER AND RETAINED ON-SITE DURING CONSTRUCTION. AFTER CONSTRUCTION IS COMPLETED, THE REPORTS SHALL BE SAVED FOR AT LEAST THREE YEARS. THE REPORTS SHALL BE AVAILABLE FOR ANY AGENCY THAT HAS JURISDICTION OVER EROSION CONTROL. ALL REPAIRS MUST BE MADE WITHIN 24 HOURS OF REPORT.
- THE SUPERINTENDENT SHALL ORGANIZE THE TRAINING FOR INSPECTION PROCEDURES AND PROPER EROSION CONTROL METHODS FOR EMPLOYEES THAT COMPLETE INSPECTIONS AND REPORTS. k. SILT FENCES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE
- REMOVED FROM THE SILT FENCES WHEN IT REACHES ONE-HALF THE HEIGHT OF THE SILT FENCE. 2. THE EROSION CONTROL FEATURES INSTALLED BY THE CONTRACTOR SHALL BE ACCEPTABLY MAINTAINED BY THE CONTRACTOR DURING THE CONSTRUCTION PERIOD.
- J. SPILL PREVENTION AND CONTROL

THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF.

- a. SUPERINTENDENT SHALL INSPECT PROJECT AREA DAILY FOR PROPER STORAGE, USE, AND DISPOSAL OF CONSTRUCTION MATERIALS.
- b. STORE ONLY ENOUGH MATERIAL ON SITE FOR PROJECT COMPLETION.
- ALL SUBSTANCES SHOULD BE USED BEFORE DISPOSAL OF CONTAINER. d. ALL CONSTRUCTION MATERIALS STORED SHALL BE ORGANIZED AND IN THE PROPER CONTAINER AND IF
- POSSIBLE, STORED UNDER A ROOF OR PROTECTIVE COVER. PRODUCTS SHALL NOT BE MIXED UNLESS DIRECTED BY THE MANUFACTURER.
- f. ALL PRODUCTS SHALL BE USED AND DISPOSED OF ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS. PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL. 2. HAZARDOUS PRODUCTS
- a. MATERIALS SHOULD BE KEPT IN ORIGINAL CONTAINER WITH LABELS UNLESS THE ORIGINAL CONTAINERS CANNOT BE RESEALED. IF ORIGINAL CONTAINERS CANNOT BE USED, LABELS AND PRODUCT INFORMATION
- b. PROPER DISPOSAL PRACTICES SHALL ALWAYS BE FOLLOWED IN ACCORDANCE WITH MANUFACTURER AND LOCAL/STATE REGULATIONS. PRODUCT SPECIFIC PRACTICES
- a. PETROLEUM PRODUCTS MUST BE STORED IN PROPER CONTAINERS AND CLEARLY LABELED. VEHICLES CONTAINING PETROLEUM PRODUCTS SHALL BE PERIODICALLY INSPECTED FOR LEAKS. PRECAUTIONS SHALL BE TAKEN TO AVOID LEAKAGE OF PETROLEUM PRODUCTS ON SITE. b. THE MINIMUM AMOUNT OF FERTILIZER SHALL BE USED AND MIXED INTO THE SOIL IN ORDER TO LIMIT
- EXPOSURE TO STORM WATER. FERTILIZERS SHALL BE STORED IN A COVERED SHED. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER SHALL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID
- c. PAINT CONTAINERS SHALL BE SEALED AND STORED WHEN NOT IN USE. EXCESS PAINT MUST BE DISPOSED OF IN AN APPROVED MANNER.
- d. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM BUT WILL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURER'S INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.
- e. CONCRETE TRUCKS SHALL NOT BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON THE SITE.

K. <u>SPILL CLEAN UP</u>

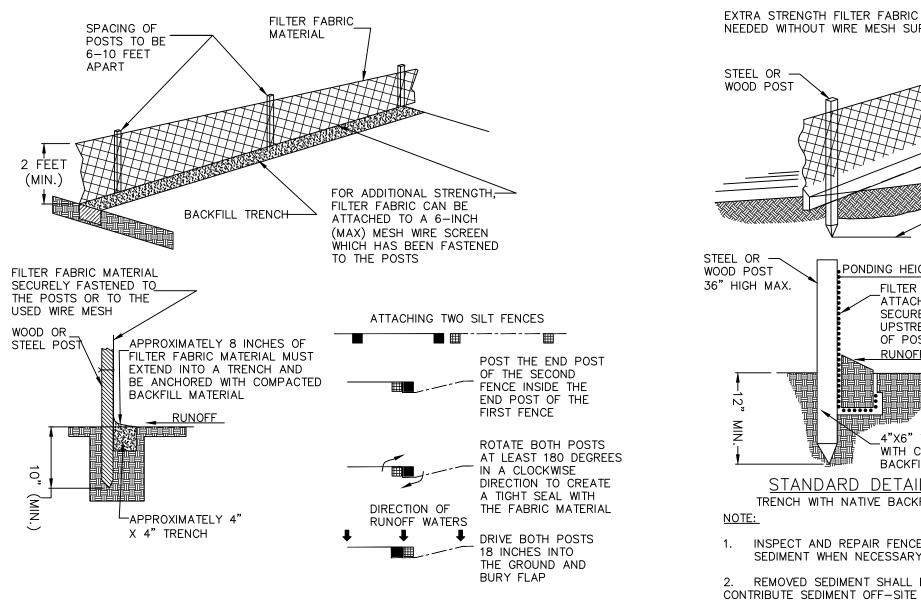
- 1. IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED ABOVE, THE
- FOLLOWING PRACTICES SHALL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP: a. SPILL CLEANUP INFORMATION SHALL BE POSTED ON SITE TO INFORM EMPLOYEES ABOUT CLEANUP PROCEDURES AND RESOURCES.
- b. THE FOLLOWING CLEAN-UP EQUIPMENT MUST BE KEPT ON-SITE NEAR THE MATERIAL STORAGE AREA: GLOVES, MOPS, RAGS, BROOMS, DUST PANS, SAND, SAWDUST, LIQUID ABSORBER, GOGGLES, AND TRASH
- c. SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS SHALL BE MAINTAINED ONSITE
- AND READILY AVAILABLE TO CONTAIN AND CLEAN-UP FUEL OR CHEMICAL SPILLS AND LEAKS. d. ALL SPILLS SHALL BE CLEANED UP AS SOON AS POSSIBLE. e. WHEN CLEANING A SPILL, THE AREA SHOULD BE WELL VENTILATED AND THE EMPLOYEE SHALL WEAR PROPER
- PROTECTIVE COVERING TO PREVENT INJURY. TOXIC SPILLS MUST BE REPORTED TO THE PROPER AUTHORITY REGARDLESS OF THE SIZE OF THE SPILL. g. AFTER A SPILL, THE PREVENTION PLAN SHALL BE REVIEWED AND CHANGED TO PREVENT FURTHER SIMILAR
- SPILLS FROM OCCURRING. THE CAUSE OF THE SPILL, MEASURES TO PREVENT IT, AND HOW TO CLEAN THE SPILL UP SHALL BE RECORDED. h. THE SUPERINTENDENT SHALL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR AND IS RESPONSIBLE
- FOR THE DAY TO DAY SITE OPERATIONS. THE SUPERINTENDENT ALSO OVERSEES THE SPILL PREVENTION PLAN AND SHALL BE RESPONSIBLE FOR EDUCATING THE EMPLOYEES ABOUT SPILL PREVENTION AND CLEANUP PROCEDURES.
- SEQUENCE OF CONSTRUCTION
- UPON IMPLEMENTATION AND INSTALLATION OF THE FOLLOWING AREAS: TRAILER, PARKING, LAY DOWN PORTA-POTTY, WHEEL WASH, CONCRETE WASHOUT, FUEL AND MATERIAL STORAGE CONTAINERS, SOLID WASTE CONTAINERS, ETC., IMMEDIATELY DENOTE THEM ON THE SITE MAPS AND NOTE ANY CHANGES IN LOCATION AS THEY OCCUR THROUGHOUT THE CONSTRUCTION PROCESS.
- b. DEMOLISH EXISTING STRUCTURES, (IF APPLICABLE)

a. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE, AND INSTALL INLET PROTECTION, TURBIDITY BARRIERS,

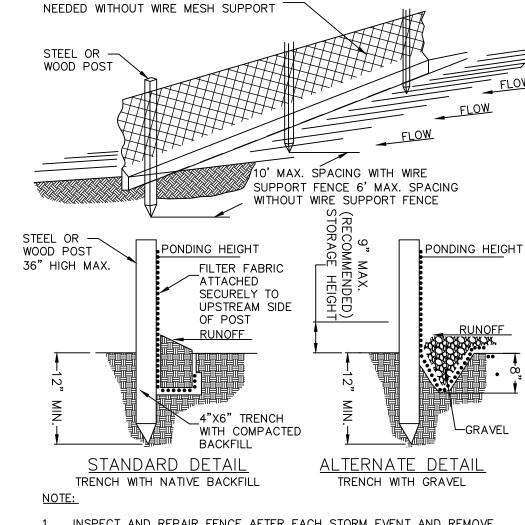
c. INSTALL AND STABILIZE ANY NECESSARY HYDRAULIC CONTROL STRUCTURES (DIKES, CHECK DAMS, OUTLET d. PREPARE CLEARING AND GRUBBING OF THE SITE, (IF APPLICABLE)

e. PERFORM MASS GRADING, ROUGH GRADE TO ESTABLISH PROPOSED DRAINAGE PATTERNS

- TEMPORARILY SEED, THROUGHOUT CONSTRUCTION, DISTURBED AREAS THAT WILL BE INACTIVE FOR 7 DAYS OR MORE AS REQUIRED BY GENERIC PERMIT 2. IN THE EVENT OF BMP ISSUES, HALT ALL ACTIVITIES AND CONTACT THE CIVIL ENGINEER CONSULTANT TO PERFORM INSPECTION AND CERTIFICATION OF BMPS. GENERAL CONTRACTOR SHALL SCHEDULE AND CONDUCT
- STORM WATER PRE-CONSTRUCTION MEETING WITH ENGINEER AND ALL GROUND DISTURBING CONTRACTORS BEFORE PROCEEDING WITH CONSTRUCTION. 3. CONTRACTOR TO BE RESPONSIBLE FOR OBTAINING ALL DEWATERING PERMITS NECESSARY FOR CONSTRUCTION.



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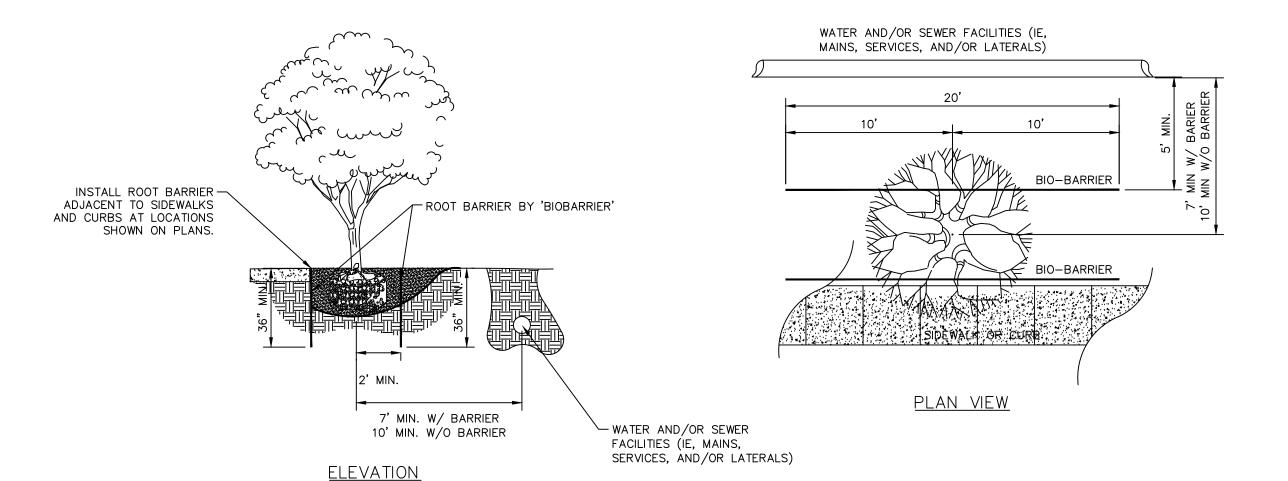


1. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY

2. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.

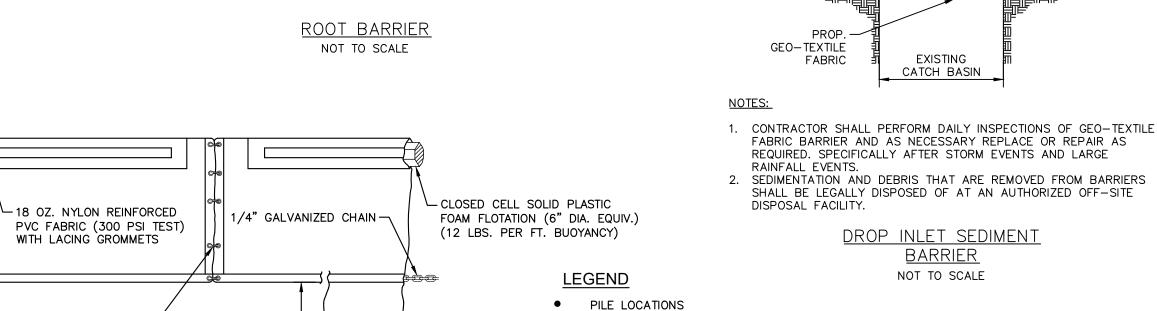
3. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.

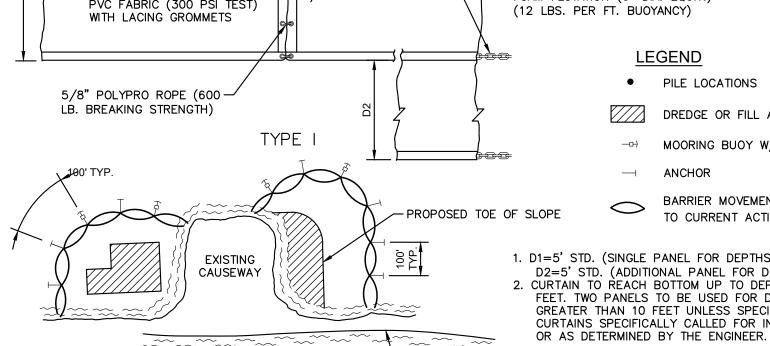
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NOTES:

- 1. TREES SHALL BE LOCATED IN THE FIELD PRIOR TO CONSTRUCTION. 2. WHERE SHOWN ON PLANS, INSTALL ROOT BARRIER ADJACENT TO SIDEWALKS AND CURBS,
- PER MANUFACTURER'S SPECIFICATION. 3. INSTALL BIO-BARRIER PER MANUFACTURER'S SPECIFICATION ADJACENT TO SIDEWALKS AND AS SHOWN ON THIS DETAIL IN PROXIMITY TO UNDERGROUND UTILITIES.





TO CURRENT ACTION 1. D1=5' STD. (SINGLE PANEL FOR DEPTHS 5' OR LESS). D2=5' STD. (ADDITIONAL PANEL FOR DEPTHS 5'). 2. CURTAIN TO REACH BOTTOM UP TO DEPTHS OF 10 FEET. TWO PANELS TO BE USED FOR DEPTHS GREATER THAN 10 FEET UNLESS SPECIAL DEPTH CURTAINS SPECIFICALLY CALLED FOR IN THE PLANS

→ ANCHOR

DREDGE OR FILL AREA

→ MOORING BUOY W/ANCHOR

BARRIER MOVEMENT DUE

FLOATING TURBIDITY BARRIER NOT TO SCALE

HE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL NCLUDE CONSIDERATION FOR ADDRESSING THIS SSUE AND OBTAINING ALL NECESSARY PERMITS



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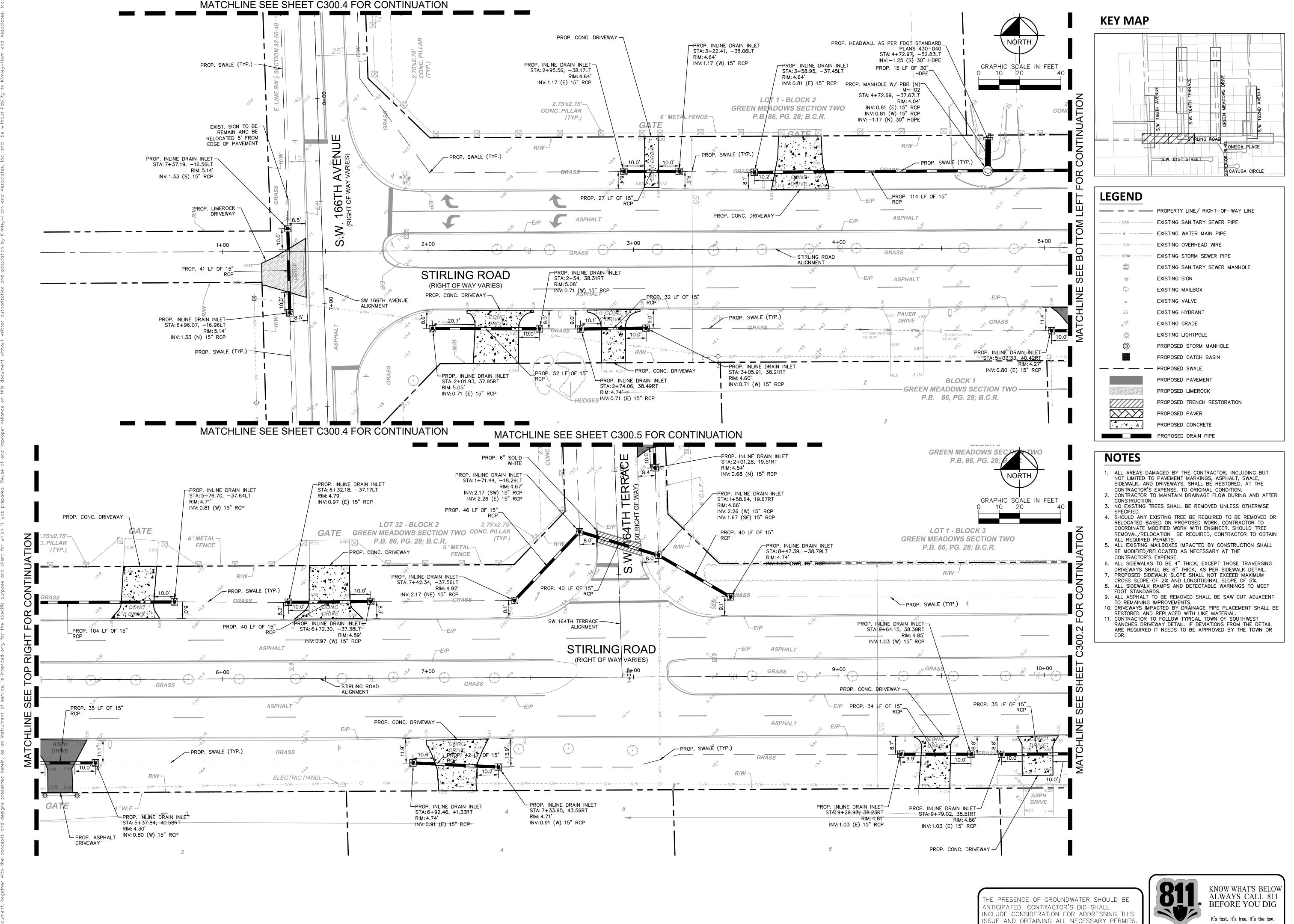
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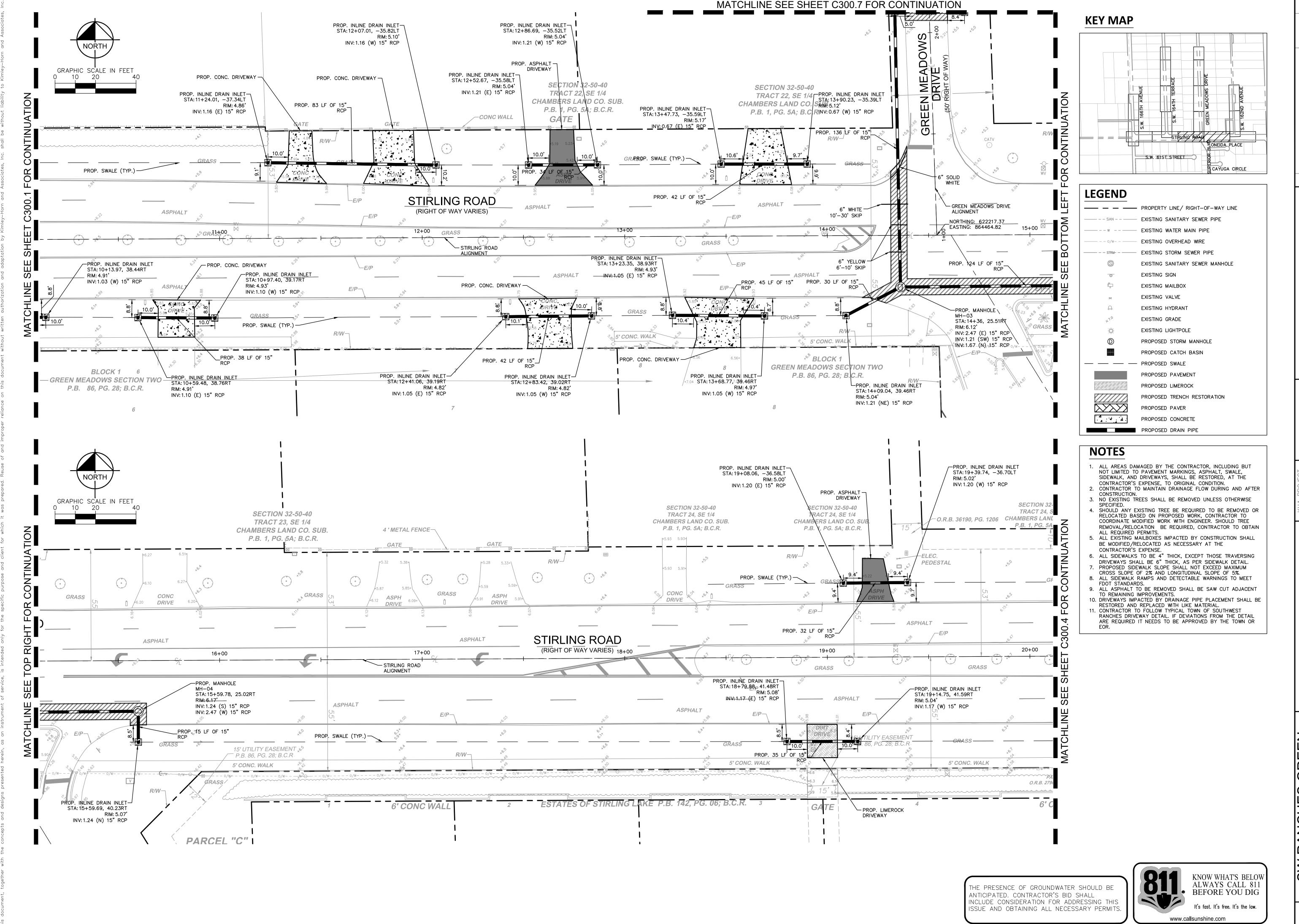
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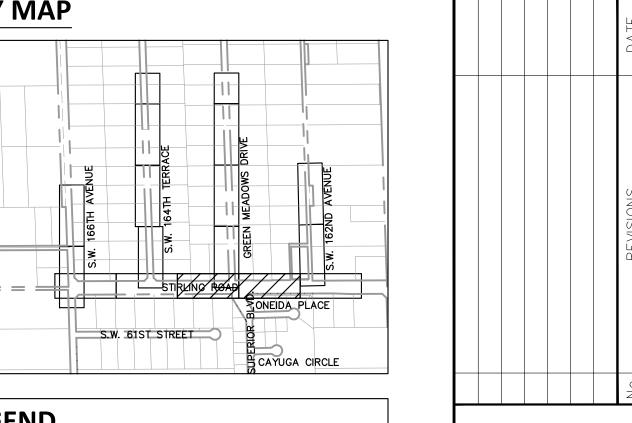
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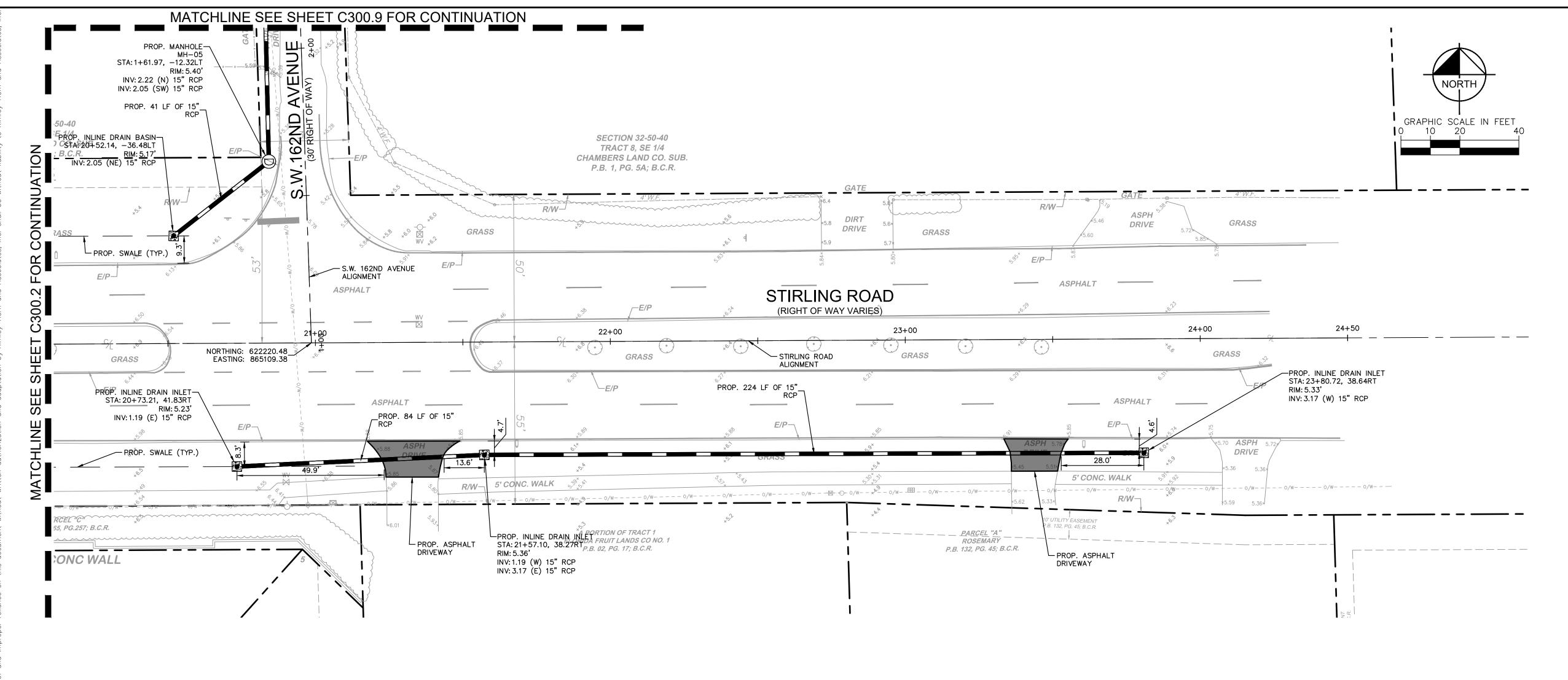
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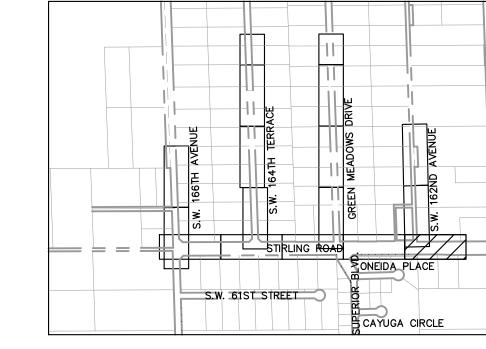


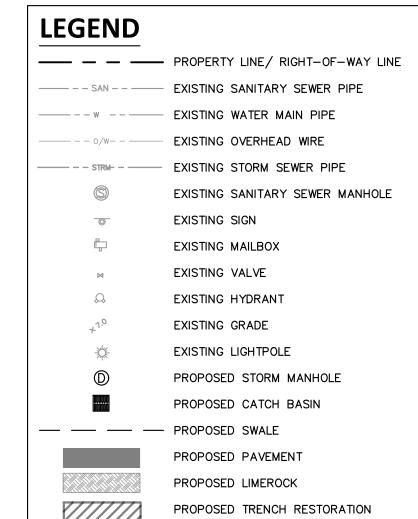


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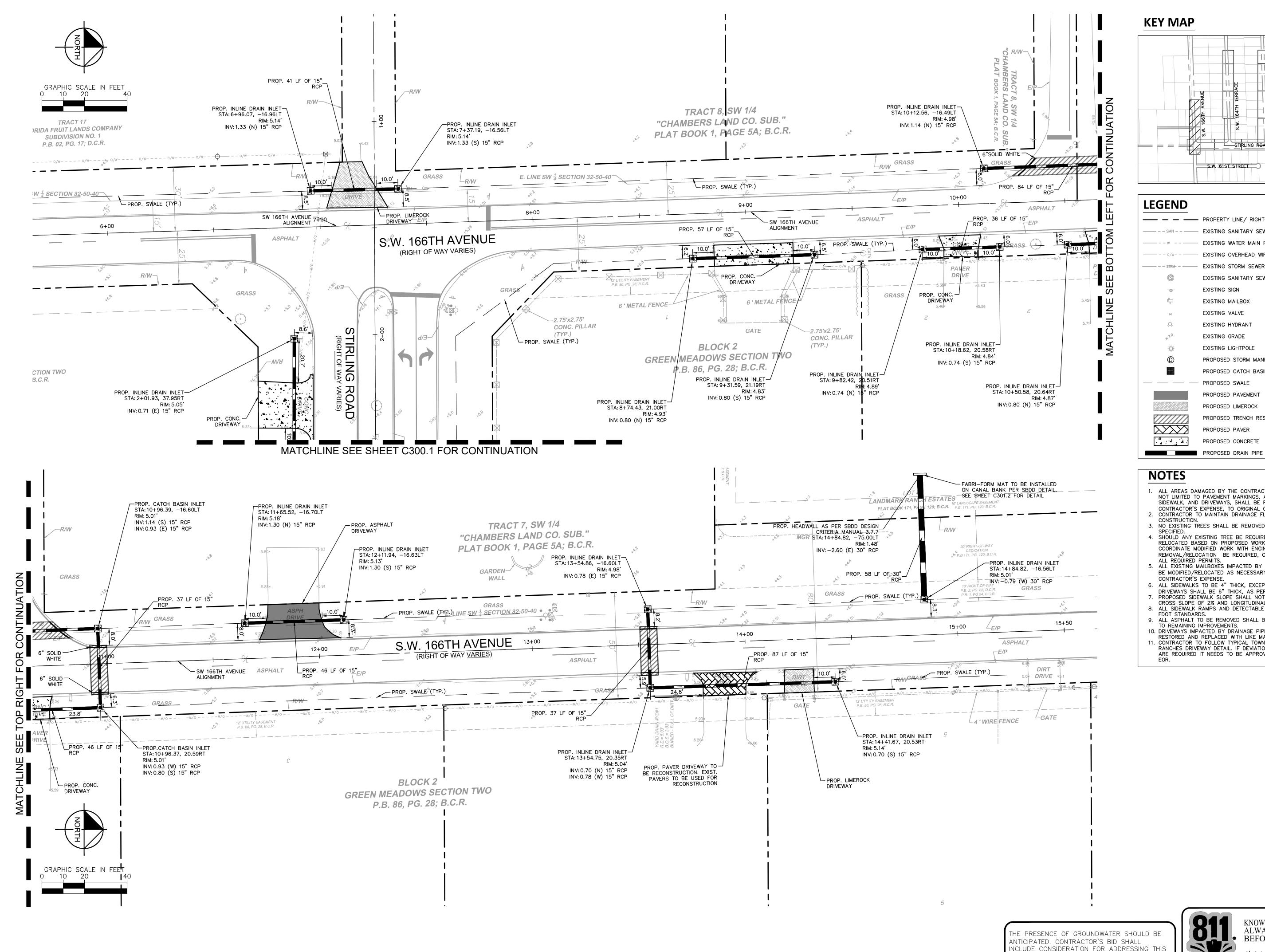
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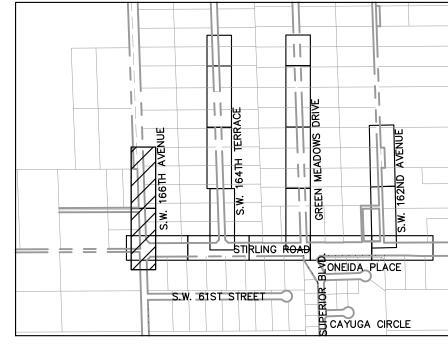
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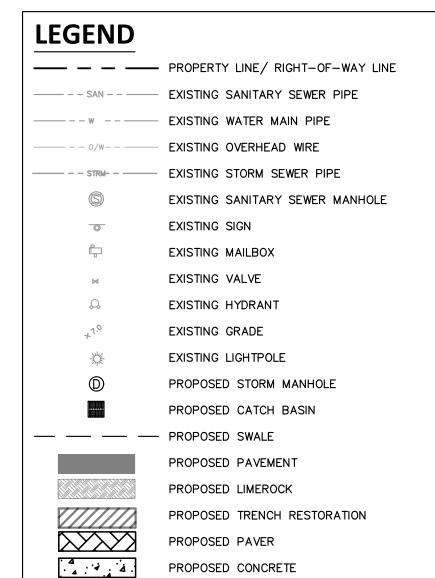
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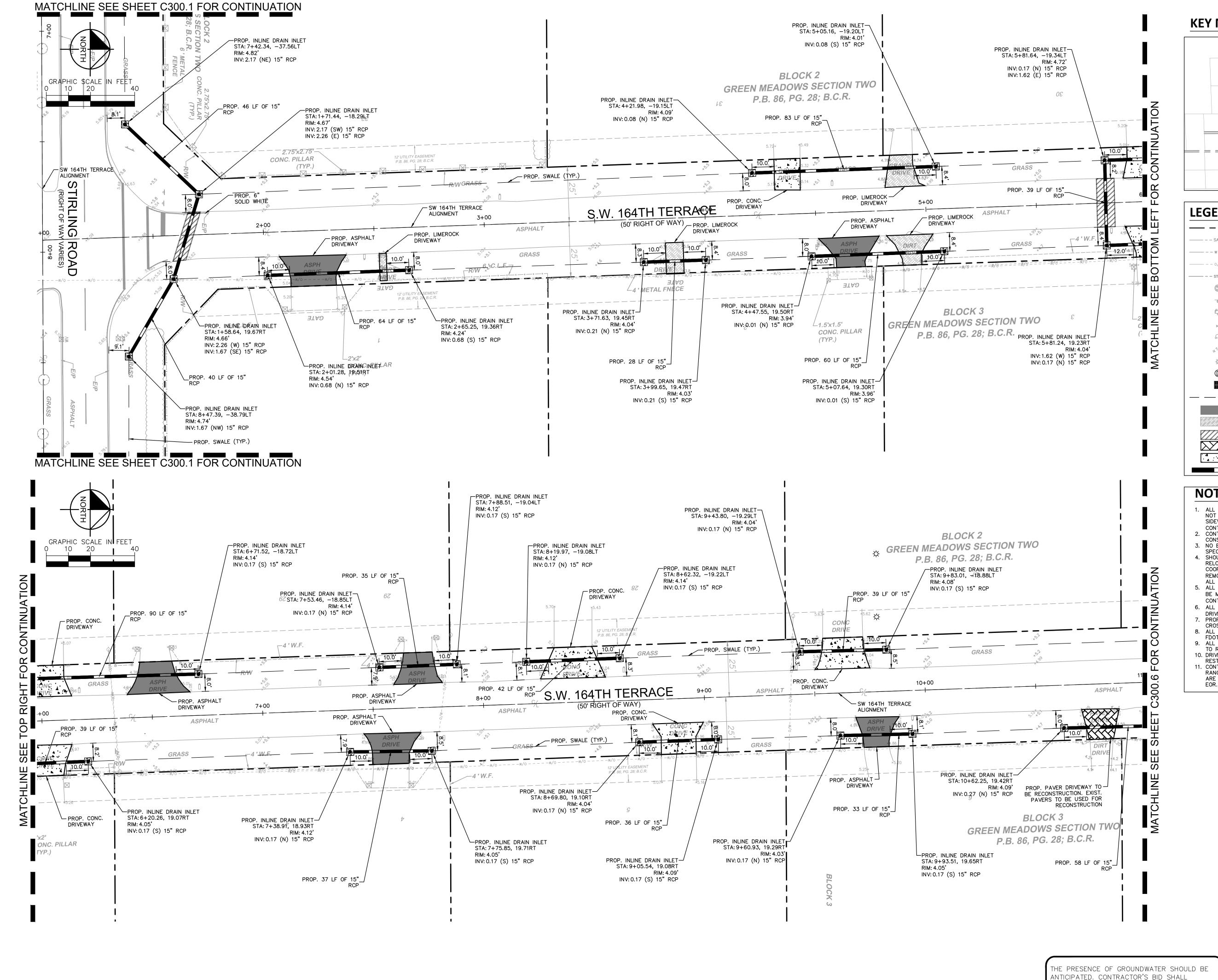
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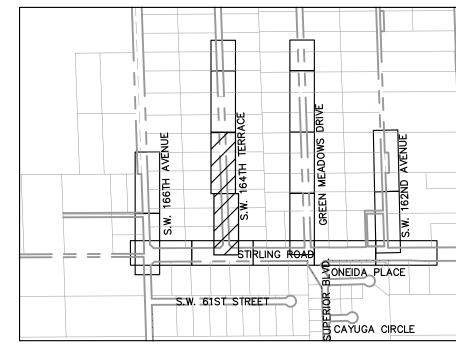
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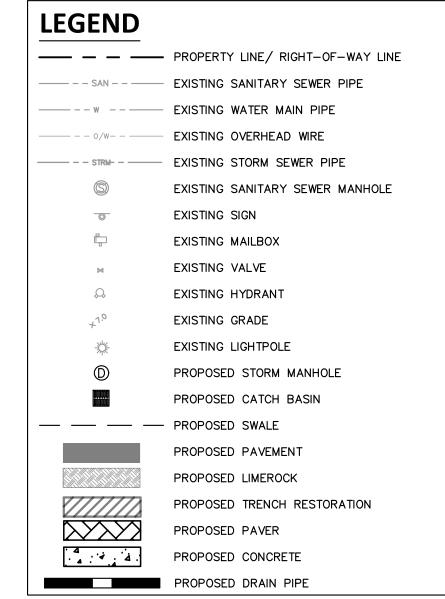
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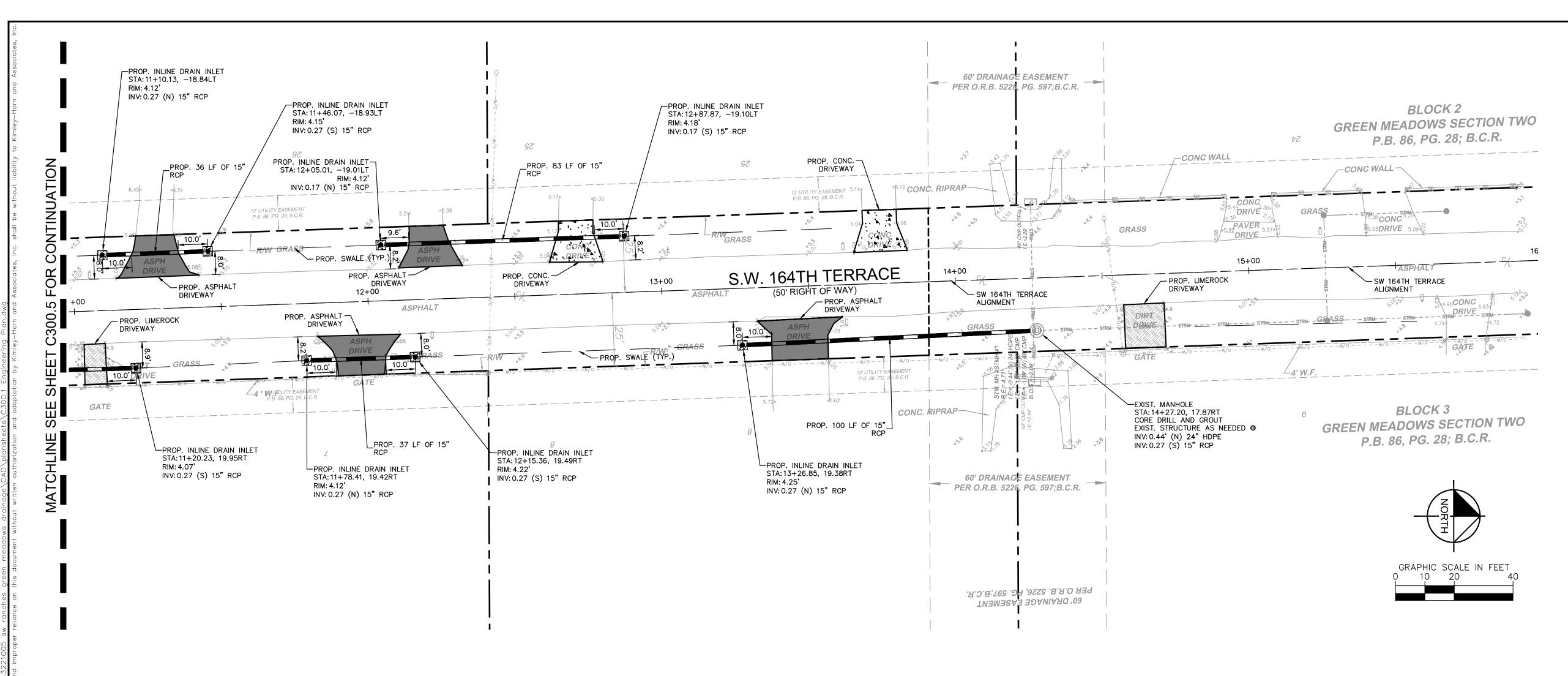
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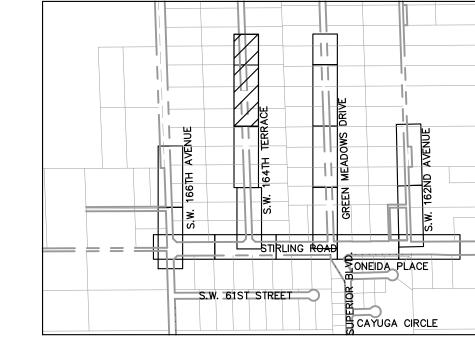
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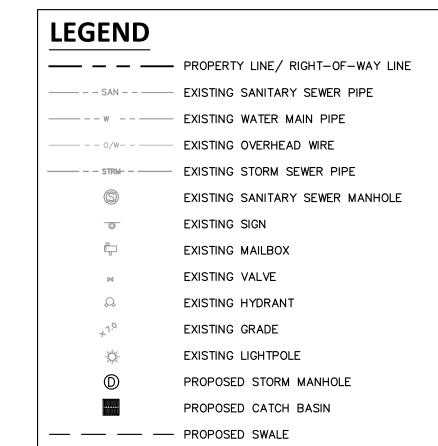
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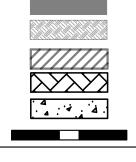
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PROPOSED PAVEMENT PROPOSED LIMEROCK

PROPOSED TRENCH RESTORATION PROPOSED PAVER

PROPOSED CONCRETE PROPOSED DRAIN PIPE

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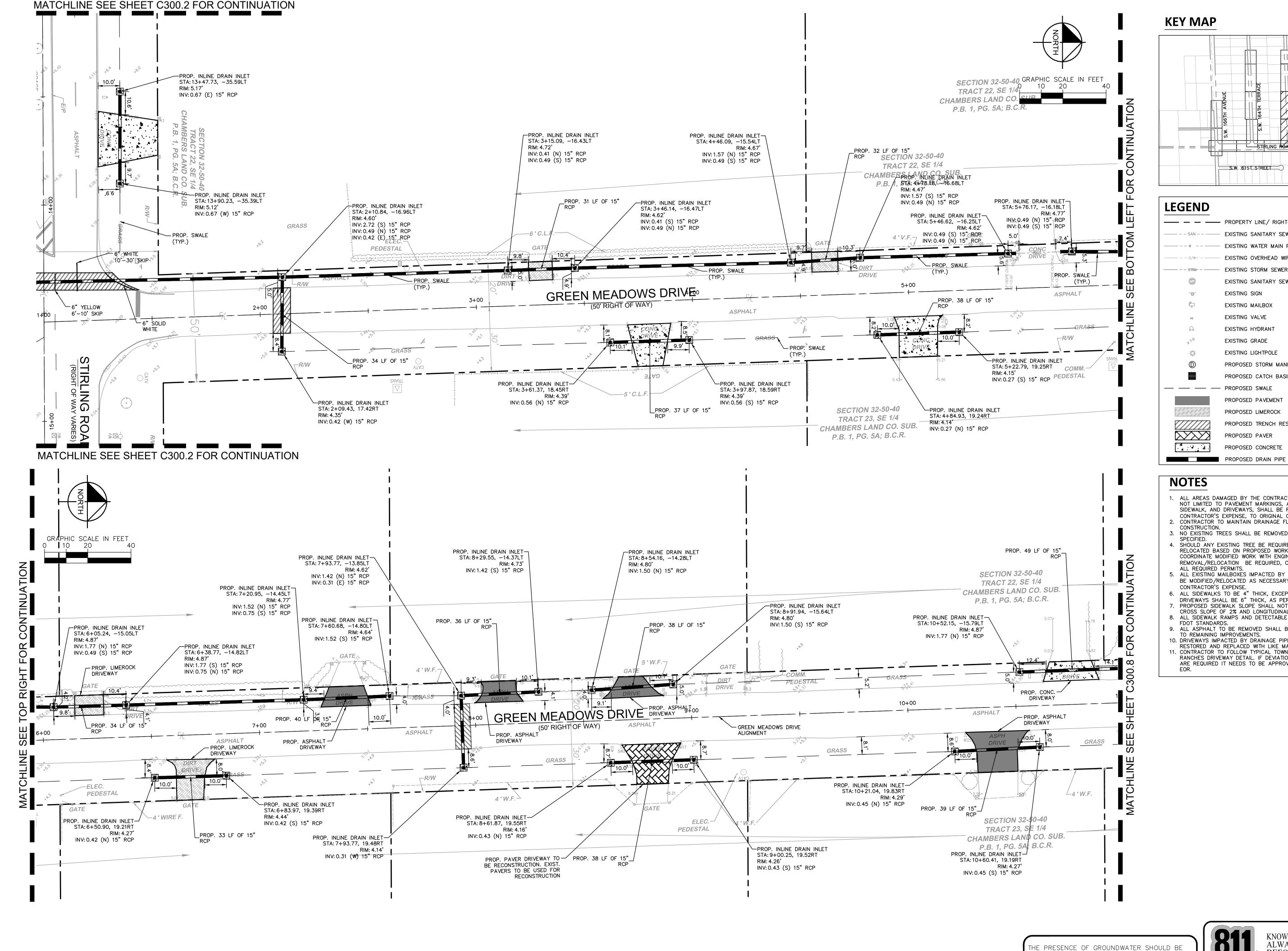
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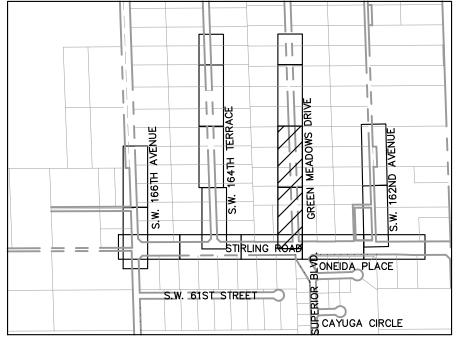
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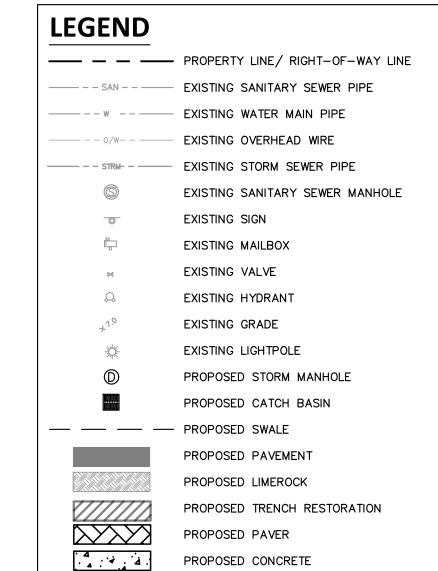
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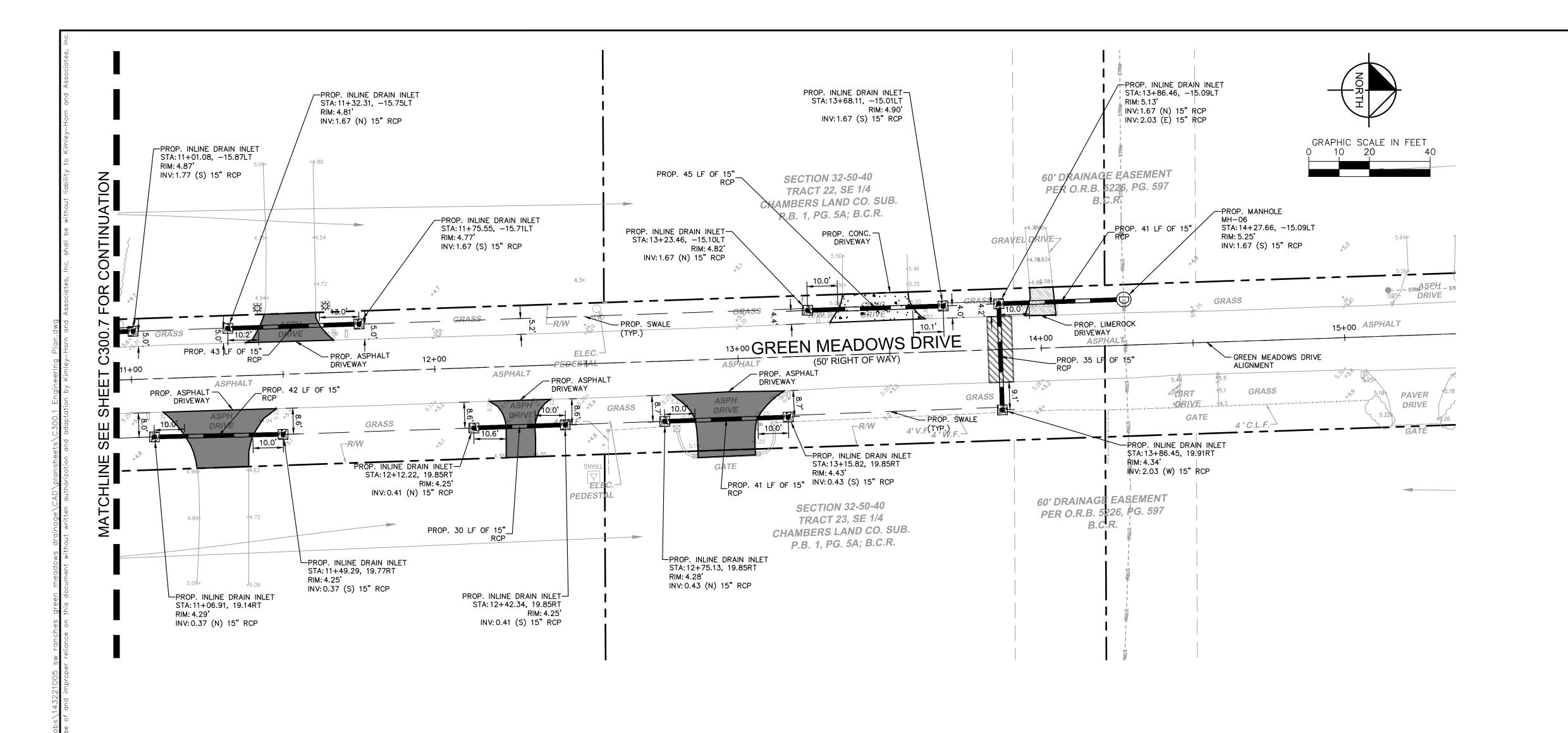
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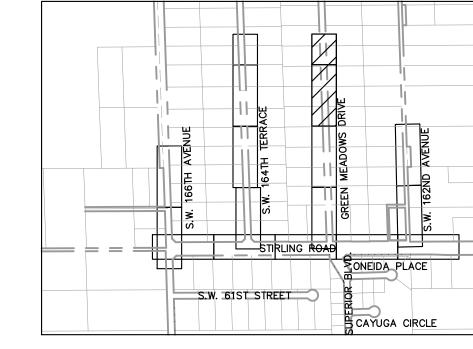
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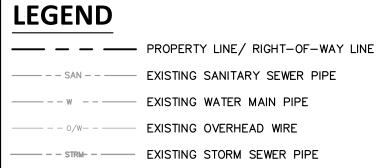
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EXISTING SANITARY SEWER MANHOLE EXISTING SIGN

EXISTING GRADE

EXISTING MAILBOX EXISTING VALVE EXISTING HYDRANT

EXISTING LIGHTPOLE PROPOSED STORM MANHOLE PROPOSED CATCH BASIN

— — PROPOSED SWALE PROPOSED PAVEMENT

PROPOSED LIMEROCK PROPOSED TRENCH RESTORATION PROPOSED PAVER

· 4 · · 4 · 4 · PROPOSED CONCRETE PROPOSED DRAIN PIPE

NOTES

- ALL AREAS DAMAGED BY THE CONTRACTOR, INCLUDING BUT NOT LIMITED TO PAVEMENT MARKINGS, ASPHALT, SWALE, SIDEWALK, AND DRIVEWAYS, SHALL BE RESTORED, AT THE CONTRACTOR'S EXPENSE. TO ORIGINAL CONDITION. 2. CONTRACTOR TO MAINTAIN DRAINAGE FLOW DURING AND AFTER
- CONSTRUCTION. 3. NO EXISTING TREES SHALL BE REMOVED UNLESS OTHERWISE SPECIFIED.
- 4. SHOULD ANY EXISTING TREE BE REQUIRED TO BE REMOVED OR RELOCATED BASED ON PROPOSED WORK, CONTRACTOR TO COORDINATE MODIFIED WORK WITH ENGINEER. SHOULD TREE REMOVAL/RELOCATION BE REQUIRED, CONTRACTOR TO OBTAIN
- ALL REQUIRED PERMITS.

 5. ALL EXISTING MAILBOXES IMPACTED BY CONSTRUCTION SHALL BE MODIFIED/RELOCATED AS NECESSARY AT THE
- CONTRACTOR'S EXPENSE. 6. ALL SIDEWALKS TO BE 4" THICK, EXCEPT THOSE TRAVERSING
- DRIVEWAYS SHALL BE 6" THICK, AS PER SIDEWALK DETAIL. PROPOSED SIDEWALK SLOPE SHALL NOT EXCEED MAXIMUM CROSS SLOPE OF 2% AND LONGITUDINAL SLOPE OF 5%.
- 8. ALL SIDEWALK RAMPS AND DETECTABLE WARNINGS TO MEET FDOT STANDARDS.

 9. ALL ASPHALT TO BE REMOVED SHALL BE SAW CUT ADJACENT TO REMAINING IMPROVEMENTS.
- 10. DRIVEWAYS IMPACTED BY DRAINAGE PIPE PLACEMENT SHALL BE RESTORED AND REPLACED WITH LIKE MATERIAL. 11. CONTRACTOR TO FOLLOW TYPICAL TOWN OF SOUTHWEST
- RANCHES DRIVEWAY DETAIL. IF DEVIATIONS FROM THE DETAIL ARE REQUIRED IT NEEDS TO BE APPROVED BY THE TOWN OR

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ENGINEERING

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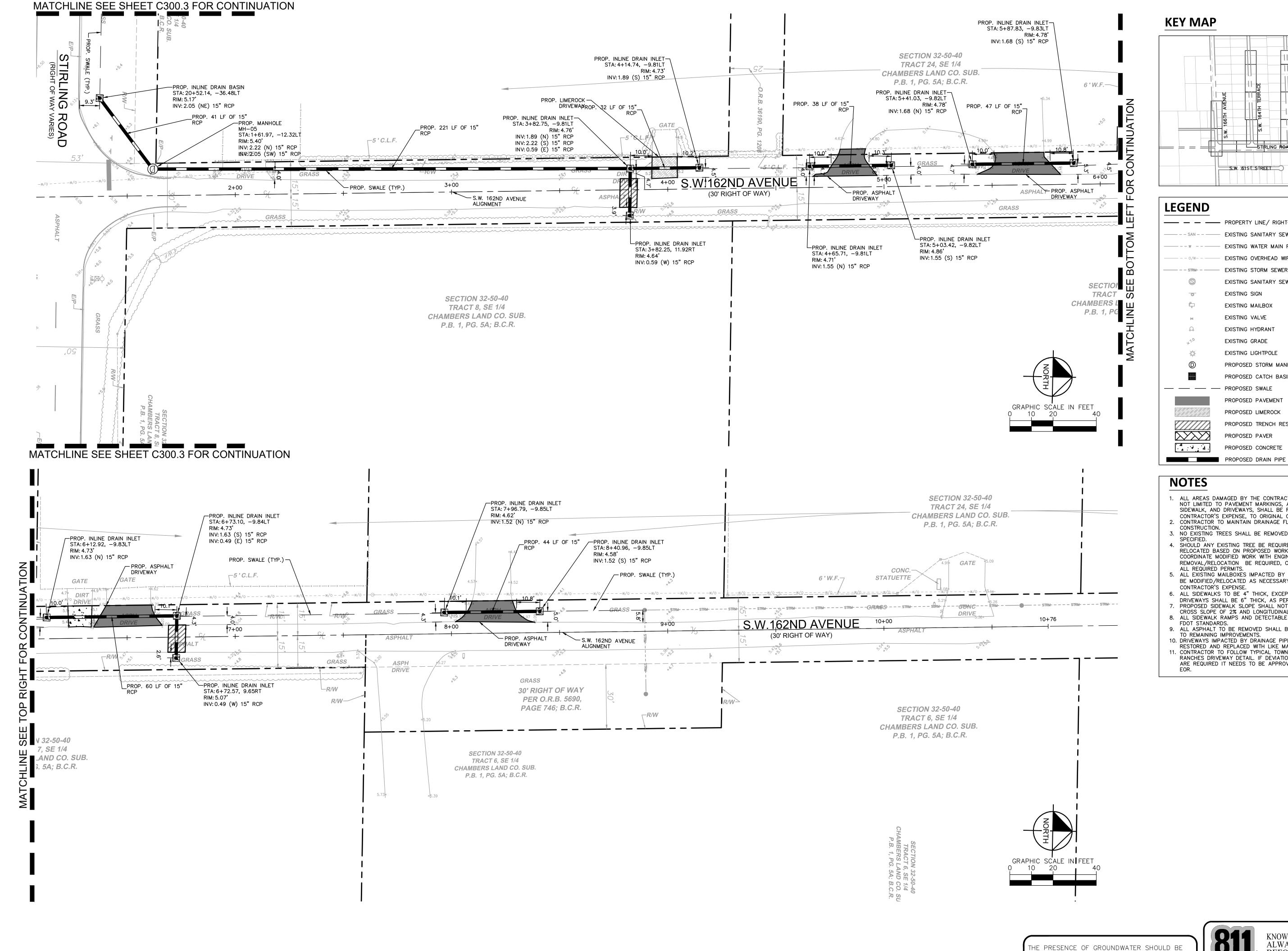
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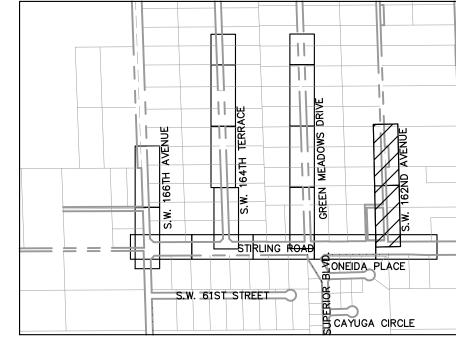
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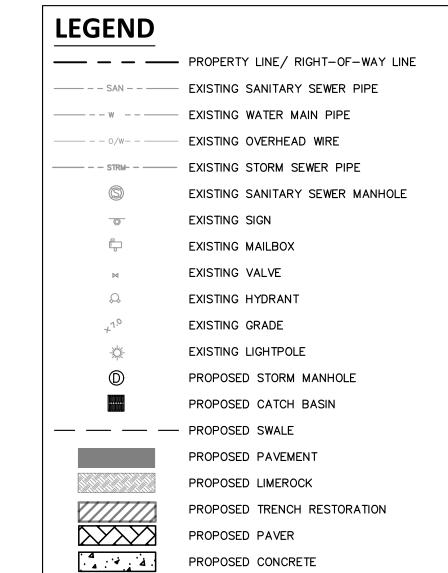
It's fast. It's free. It's the law.

HE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS

KNOW WHAT'S BELOW ALWAYS CALL 811 BEFORE YOU DIG www.callsunshine.com







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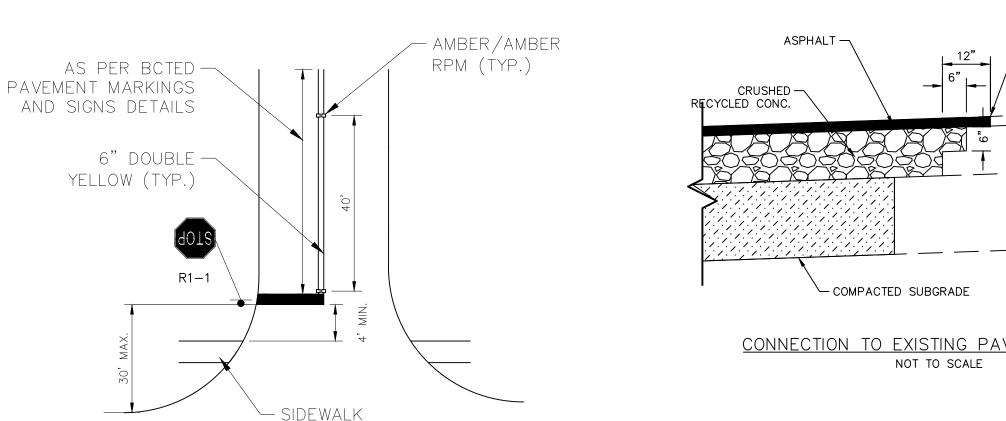
ENGINEERING

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ANTICIPATED. CONTRACTOR'S BID SHALL

INCLUDE CONSIDERATION FOR ADDRESSING THIS

ISSUE AND OBTAINING ALL NECESSARY PERMITS



STOP BAR & STRIPING DETAIL NOT TO SCALE

NOTES:

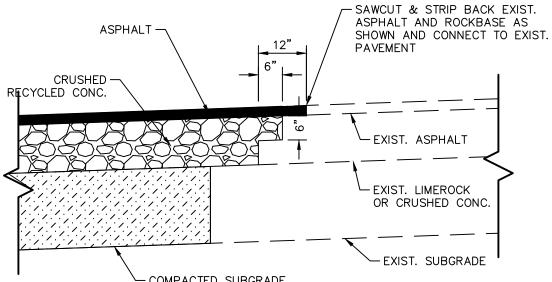
DRAINAGE ENDWALLS DISCHARGING INTO CANALS / WATER BODIES SHALL MEET LOCAL DRAINAGE DISTRICT REQUIREMENTS.

DRAINAGE INLETS DISCHARGING INTO CANALS / WATER BODIES SHALL BE CONSTRUCTED WITH A POLLUTION RETARDANT BAFFLE.

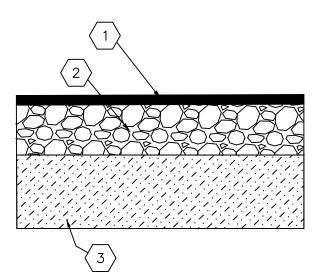
- 1. EXISTING STOP SIGNS AND STOP BARS SHALL BE RELOCATED AS NEEDED TO COMPLY WITH MINIMUM/MAXIMUM DIMENSIONS SHOWN. ALL RELOCATIONS SHALL BE PREFORMED AT NO ADDITIONAL COST TO THE OWNER.
- 2. ALL STOP BARS SHALL BE LOCATED AS PER BROWARD COUNTY STANDARD DETAILS. 3. DETAILS IN FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) ROADWAY
- AND TRAFFIC DESIGN STANDARDS, AND BROWARD COUNTY PUBLIC WORKS MANUAL SHALL BE USED WHERE APPLICABLE. 4. REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED AS NOTED IN PLANS
- AND DETAILS. ALL STRIPING SHALL BE THERMOPLASTIC. 5. ALL EXISTING SIGNS SHALL BE PROTECTED DURING CONSTRUCTION AND SHALL REMAIN. CONTRACTOR IS RESPONSIBLE TO REPLACE/REPAIR ANY DAMAGE TO SIGNAGE AS A RESULT OF CONSTRUCTION AT NO COST TO THE OWNER.

DRIVEWAY UNDERDRAIN DETAIL

- 6. ALL EXISTING PAVEMENT MARKINGS SHALL BE REPLACED FOLLOWING RESURFACING.
- 7. WHERE NEEDED, EXTEND EXISTING SOLID DOUBLE YELLOW TO MEET BCTED STANDARDS.



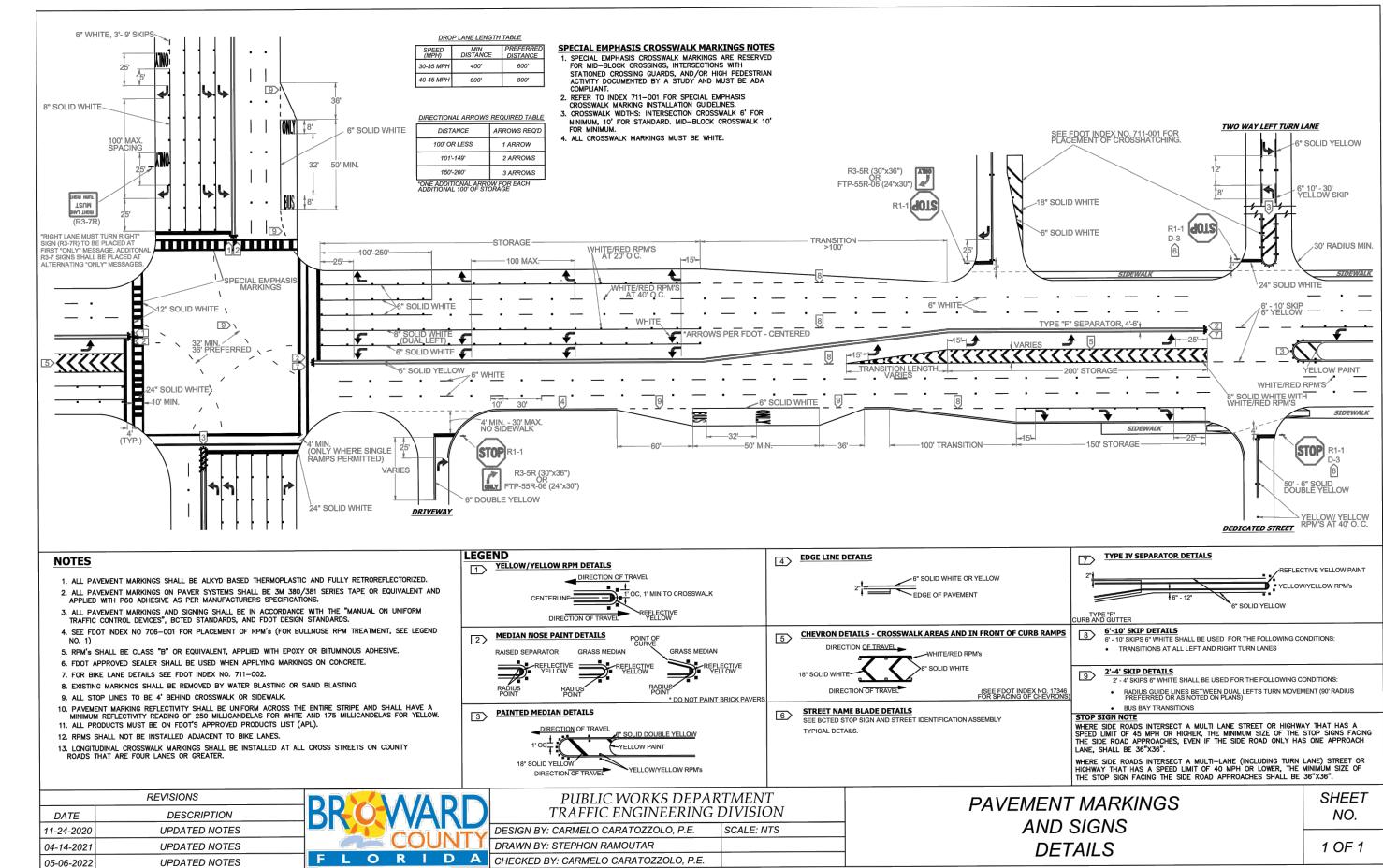
CONNECTION TO EXISTING PAVEMENT DETAIL

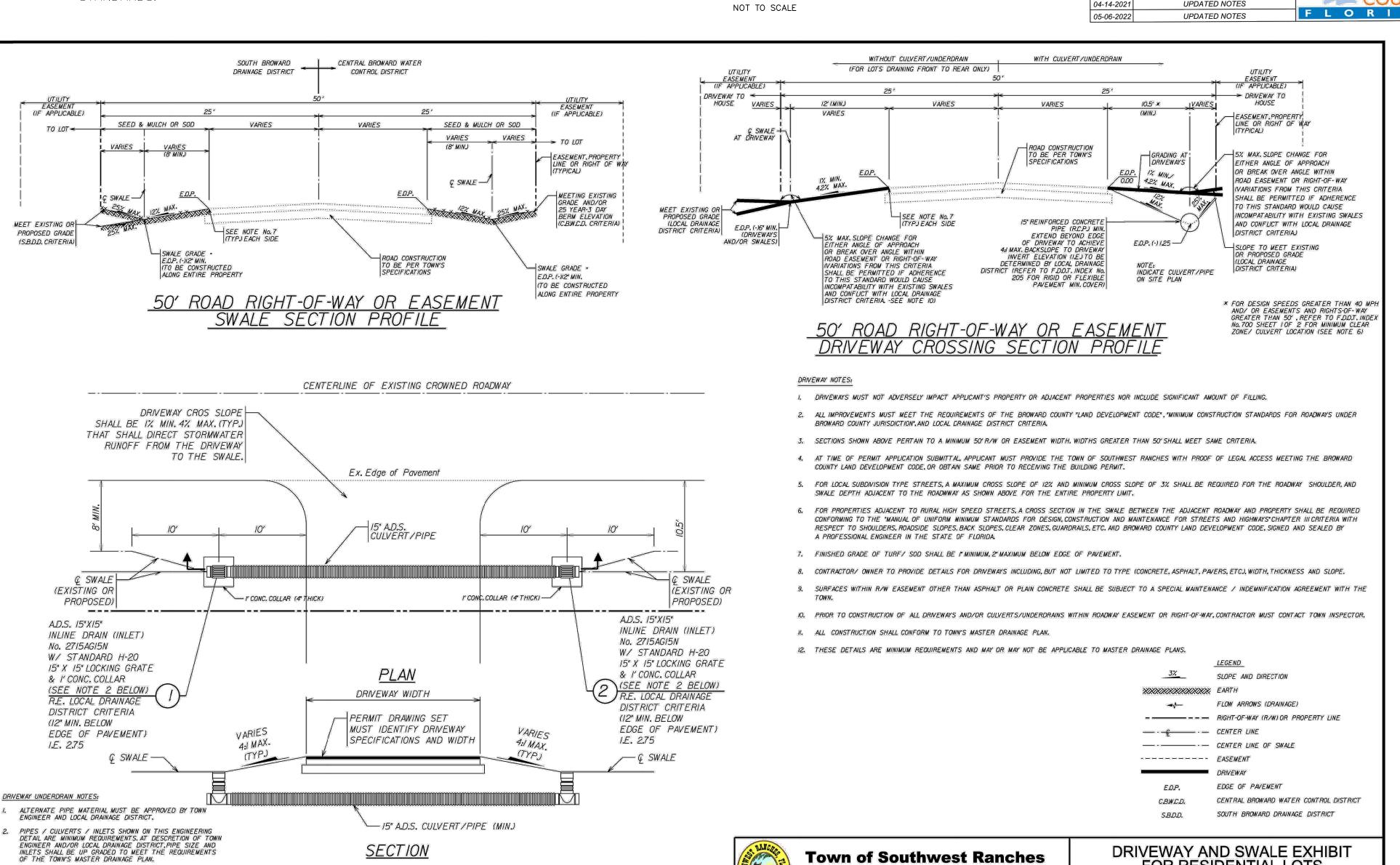


PAVING LEGEND

- 1 1/2" ASPHALT SURFACE TYPE SP-12.5 FIRST LIFT $^{\prime}$ AND 1 1/2" SP-9.5 TOP LIFT
- 8" LIMEROCK BASE COMPACTED IN 1 LIFT WITH MINIMUM LBR OF 100
- 12" THICK SUBGRADE COMPACTED AND STABILIZED WITH (3) MINIMUM DESIGN LBR OF 40 COMPACTED TO AT LEAST 98% OF MAXIMUM DRY DENSITY (AASHTO T-180)

PAVEMENT CROSS-SECTION

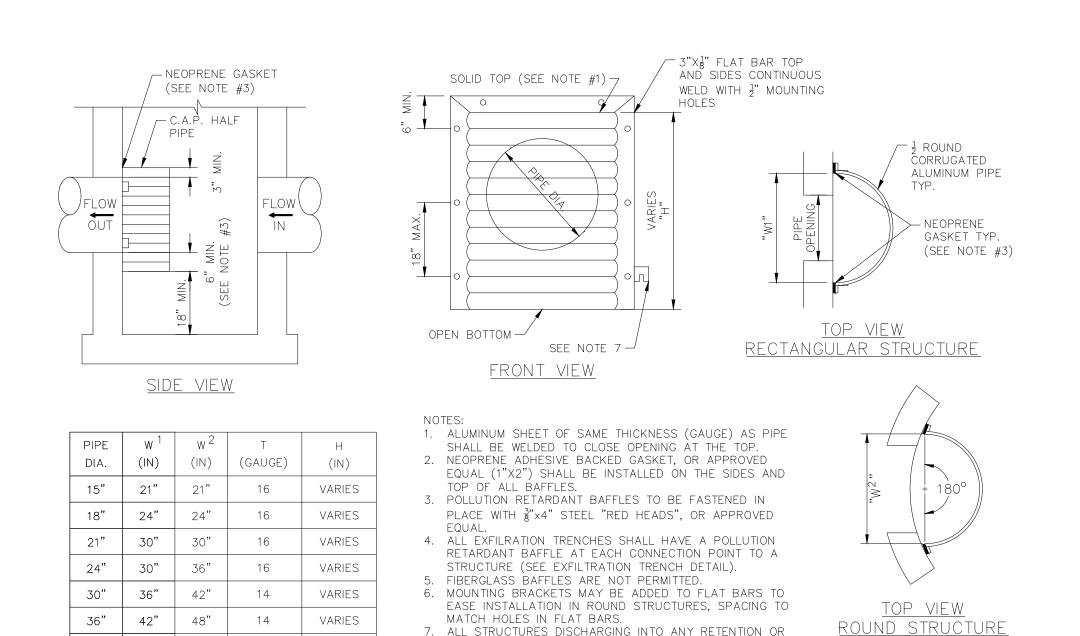




LATEST REVISION 9/16/14

Engineering Department

Town Hall • 13400 Griffin Road • Southwest Ranches, FL 33330



7. ALL STRUCTURES DISCHARGING INTO ANY RETENTION OR

DETENTION AREAS SHALL HAVE BAFFLE MECHANISMS

POLLUTION RETARDANT BAFFLE NOT TO SCALE

INSTALLED

48" 54"

48" 54" 60"

54" | 60" | 66"

ROUND STRUCTURE

FOR RESIDENTIAL LOTS

CHECKED: WFI DATE: 3/02

DSR01

FRADLEY, INC.

RECTANGULAR STRUCTURE

VARIES

VARIES

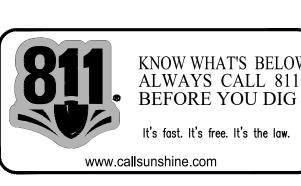
VARIES

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HE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL NCLUDE CONSIDERATION FOR ADDRESSING THIS SSUE AND OBTAINING ALL NECESSARY PERMITS





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GRATE ELEV. _ AS SHOWN ON PLANS - ASPHALT FRAME & GRATE FINISHED GRADE AS PER DETAIL - LIMEROCK BASE BRICK & MORTAR TO GRADE BY CONTRACTOR -(2 COURSE MIN., 4 MAX.) PROP. - CATCH -

CATCH BASIN TOP DETAIL NOT TO SCALE

2' FEATHERING

₹" TYPE S−3 ¬ SURFACE COURSE

/ MATCH LINE

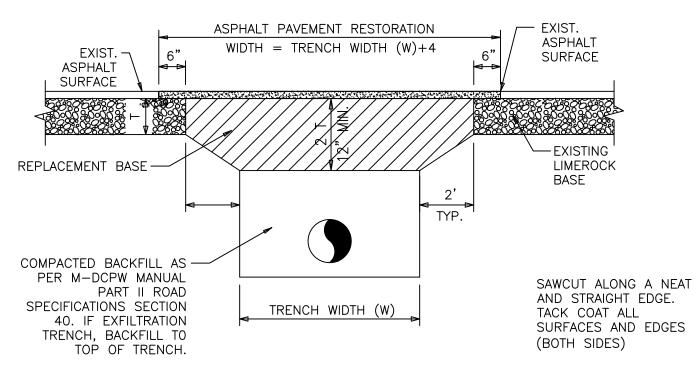
EXIST. PVMT.

POCKET INTO EXIST. PVMT.

EXIST. BASE

NOT TO SCALE

PRECAST DRAINAGE MANHOLE NOT TO SCALE



GENERAL NOTES:

- 1. REPLACED BASE MATERIAL OVER DITCH SHALL BE TWICE THE THICKNESS OF THE ORIGINAL BASE. BUT NOT LESS THAN 12".
- 2. BASE MATERIAL SHALL BE PLACED IN 6 INCH MAXIMUM LAYERS AND EACH LAYER THOROUGHLY ROLLED OR TAMPED TO 98% OF MAXIMUM DENSITY, PER AASHTO T-180. BASE MATERIAL SHALL HAVE A MINIMUM LBR OF 100.
- 3. ASPHALTIC CONCRETE PAVEMENT JOINTS SHALL BE MECHANICALLY SAWED.
- 4. SURFACE TREATED PAVEMENT JOINTS SHALL BE LAPPED AND FEATHERED.
- 5. SURFACE MATERIAL SHALL BE TYPE S-1 ASPHALTIC CONCRETE STRUCTURAL COURSE (1-1/4" THICK). MATCH EXISTING GRADES AT LIMITS OF SAWCUT.
- 6. UPON COMPLETION OF TRENCHING AND TRENCH/PAVEMENT RESTORATION FOR THE ENTIRE PROJECT, RESURFACE ENTIRE ROADWAY WIDTH WITH TYPE S-3 ASPHALTIC CONCRETE SURFACE COURSE (3/4" MINIMUM THICKNESS).
- 7. BID PRICES FOR PIPE AND/ OR FRENCH DRAIN SHALL INCLUDE PAVEMENT RESTORATION TO MATCH EXISTING GRADES. CONTRACTOR SHALL NOT LEAVE MORE THAN 1,000-FEET OF EXPOSED LIMEROCK BASE AT ANY TIME DURING THE TRENCH/PAVEMENT RESTORATION PROCESS. ONLY TYPE S-3 ASPHALTIC CONCRETE SURFACE COURSE WILL BE PAID SEPARATELY.
- 8. WHEN TRENCHING OUTSIDE THE ROADWAY PAVEMENT AREA, RESTORE SURFACE TO PRE-CONSTRUCTION GRADES AND RESTORE OR REPLACE ANY PUBLIC OR PRIVATE PROPERTY TO A CONDITION AT LEAST EQUAL TO THAT EXISTING IMMEDIATELY PRIOR TO COMMENCEMENT OF CONSTRUCTION. SUITABLE MATERIALS AND METHODS SHALL BE USED FOR SUCH RESTORATION. ALL COST SHALL BE INCLUDED AS PART OF THE SWALE RESTORATION PAY ITEM.
- 9. CONTRACTOR SHALL REFER TO GEOTECHNICAL REPORT FOR ADDITIONAL SOILS INFORMATION TO UNDERSTAND EXISTING CONDITIONS.

TRENCH / PAVEMENT RESTORATION

NOTE: GRADING AND PREPARATION OF SUBGRADE SHALL BE APPROVED BY THE CITY ENGINEER PRIOR TO APPLICATION OF PAVING MATERIALS. BRICK PAVER -(MATCH EXISTING PAVER) EXISTING OR PROPOSED CONCRETE SIDEWALK RIGHT-OF-WAY -PROPOSED TEMPORARY ASPHALT SIDEWALK (N.W. 38th STREET) (SEE PLANS FOR MORE INFORMATION) PROP. ASPHALT DRIVEWAY - LIMEROCK TO MATCH TYPICAL SECTIONS TYPICAL BRICK PAVER DETAIL — EDGE OF ROADWAY PAVEMENT− NOT TO SCALE PRIVATE SIDEWALK. DRIVEWAY EXIST. ROAD VARIES SEE PROPERTY ∠ R/W LINE PLANS EXIST. ASPHALT-- BRUSH FINISH TYPE 1 PORTLAND CEMENT CONCRETE, COMPRESSIVE STRENGTH AT 28 DAYS OF -----AT LEAST 3000 PSI STABILIZED SUBGRADE COMPACTED TO 98% MODIFIED . NOTE: SEE SIDEWALK DETAIL FOR PROCTOR MAXIMUM DRY DENSITY ADDITIONAL INFORMATION REGARDING PER AASHTO T-180 MIN. LBR 40 EXPANSION JOINTS AND REINFORCEMENT STANDARD DUTY CONCRETE



SECTION B

2" THICK MIN. 3/4" TYPE S-III 1-1/4" TYPE S-I COMPACTED (COMMERCIAL & INDUSTRIAL)

LIMEROCK BASE COURSE (6" THICK MIN.) COMPACTED TO 98% DENSITY PER AASHTO T-180 (LBR 100) (RESIDENTIAL)

LIMEROCK BASE COURSE (8" THICK MIN.) COMPACTED TO 98% DENSITY

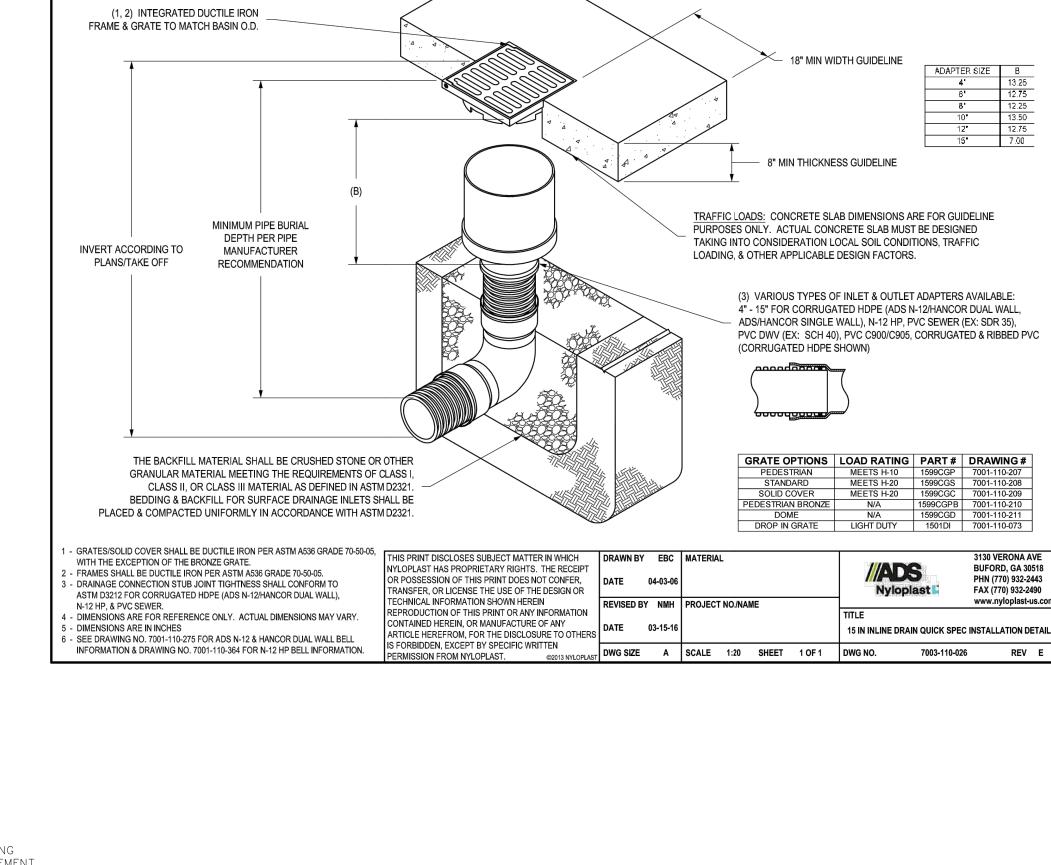
12" COMPACTED SUBGRADE COMPACTED TO 98% DENSITY

PER AASHTO T-180 (LBR 100) (INDUSTRIAL)

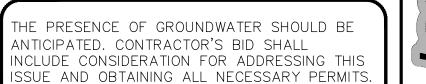
1" THICK MIN. TYPE S-III COMPACTED (RESIDENTIAL)

PER AASHTO T-180 (LBR 40)

ASPHALTIC SURFACE COURSE:



NYLOPLAST 15" INLINE DRAIN: 2715AG _ _ X





3130 VERONA AVE

BUFORD, GA 30518

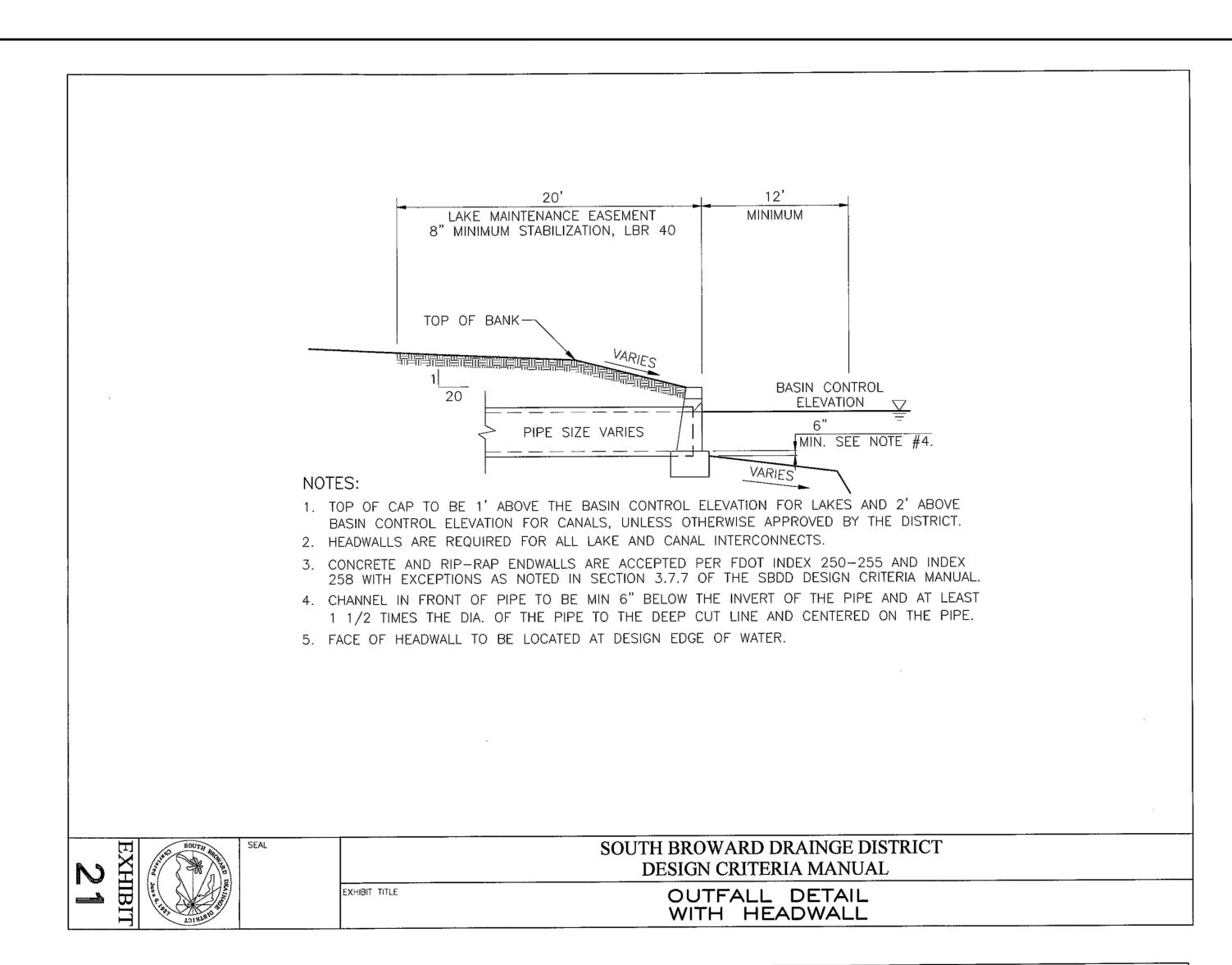
PHN (770) 932-2443

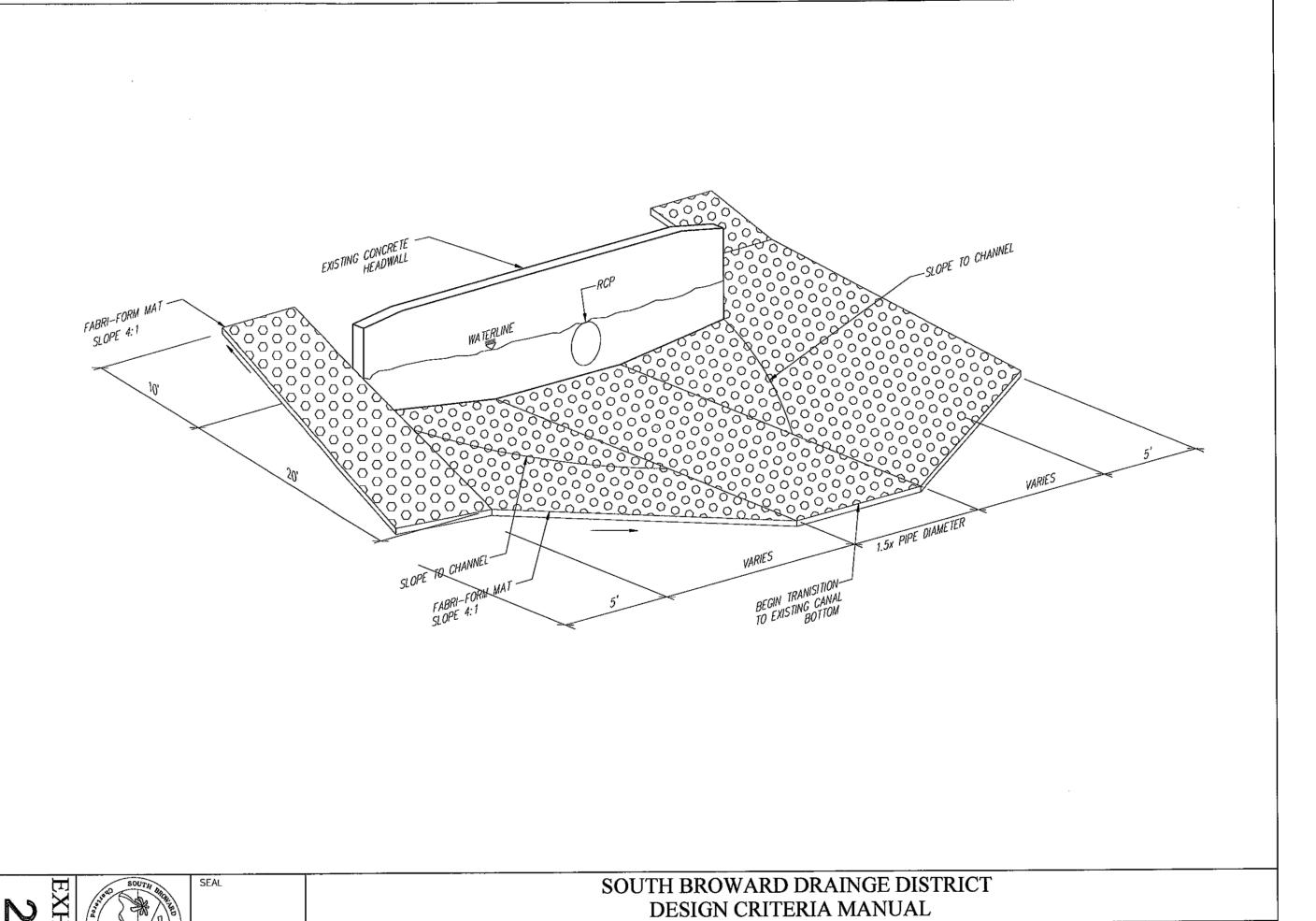
FAX (770) 932-2490

7003-110-026

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FABRICFORM REVETMENT ENDWALL STABILIZATION DETAIL

ENGINEERING | DETAILS

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