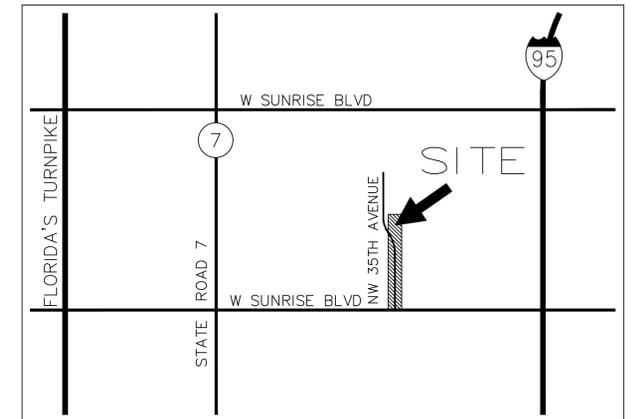


NW 35th AVENUE WALL LAUDERHILL, FLORIDA



LOCATION MAP (N.T.S.)

SECTION 06, TOWNSHIP 50 SOUTH, RANGE 42 EAST



Prepared for:

THE CITY OF LAUDERHILL ENGINEERING DEPARTMENT

LAUDERHILL COMMISSION
and ADMINISTRATION

MAYOR
KEN THURSTON

VICE MAYOR
LAWRENCE "JABBOW" MARTIN

COMMISSIONERS
MELISSA P. DUNN
DENNIS D. GRANT
SARAI "RAY" MARTIN

CITY MANAGER
DESORAE GILES-SMITH

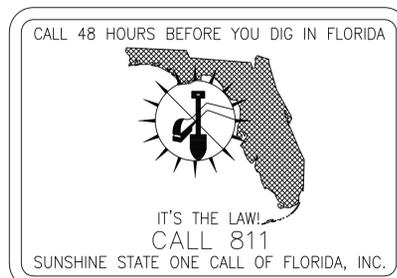
CITY ENGINEER
J. MARTIN CALA

THE FOLLOWING ITEMS ARE NOT REVIEWED OR ACCEPTED BY BROWARD COUNTY:

1. 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 CITY ENGINEER.
2. 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, BLINKER SIGNS, RECTANGULAR RAPID FLASHING BEACONS AND RELATED MARKINGS AND SIGNING, ON-STREET PARKING AND RELATED MARKINGS AND SIGNING, IN-ROAD LIGHTING AND RELATED MARKINGS AND SIGNING, GREEN BIKE LANES, FLEXIBLE DELINEATORS, DECORATIVE SIGNS AND DECORATIVE SIGN POSTS, PLANTERS, ON-SITE PAVEMENT MARKINGS AND SIGNING, OFF-SITE PAVEMENT MARKINGS AND SIGNING IN RIGHT-OF-WAY THAT IS NOT DEDICATED FOR PUBLIC USE, SIDEWALK WORK OR ASPHALT WORK.
3. THE CITY 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 CITY: PAVEMENT MARKINGS ON OR ADJACENT TO PAVER BRICKS, PAINTED ASPHALT, STAMPED ASPHALT OR PAVEMENT MARKINGS MADE OF 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, BLINKER SIGNS, RECTANGULAR RAPID FLASHING BEACONS AND RELATED MARKINGS AND SIGNING, ON-STREET PARKING AND RELATED MARKINGS AND SIGNING, IN-ROAD LIGHTING AND RELATED MARKINGS AND SIGNING, GREEN BIKE LANES, FLEXIBLE DELINEATORS, DECORATIVE SIGNS AND DECORATIVE SIGN POSTS, PLANTERS, ON-SITE PAVEMENT MARKINGS AND SIGNING, OFF-SITE PAVEMENT MARKINGS AND SIGNING IN RIGHT-OF-WAY THAT IS NOT DEDICATED FOR PUBLIC USE, SIDEWALK WORK OR ASPHALT WORK.
4. ALL TRAFFIC CONTROL DEVICES THAT ARE MAINTAINED BY BROWARD COUNTY, THAT ARE REMOVED OR DAMAGED BY CONSTRUCTION, SHALL BE REPLACED BY CONTRACTOR USING CURRENT BROWARD COUNTY TRAFFIC ENGINEERING DESIGN STANDARDS.

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C1.2	SITE PLAN - AREA 2
C2	PRECAST WALL SYSTEMS INC. DETAILS
C3	GENERAL NOTES AND SPECIFICATIONS
D1.1	DEMOLITION PLAN - AREA 1
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ESC-1	EROSION AND SEDIMENT CONTROL PLAN - AREA 1
ESC-2	EROSION AND SEDIMENT CONTROL PLAN - AREA 2
LAPL-0	EXISTING TREE DISPOSITION
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LAPL-2	TREE DISPOSITION PLAN
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LAPL-4	PLANTING PLAN
LAPL-5	PLANT LIST
LAPL-6	PLANTING DETAILS AND NOTES



FLYNN ENGINEERING
 241 COMMERCIAL BLVD., LAUDERDALE-BY-THE-SEA, FL 33308
 PHONE: (954) 522-1004 | WWW.FLYNNENGINEERING.COM
 EB# 6578

Job No.	Plot Date	Drawn by	Proj. Engr.	Appr. by
23-1752.00	01/09/24	BMK	BMK	JMF

LEGEND:

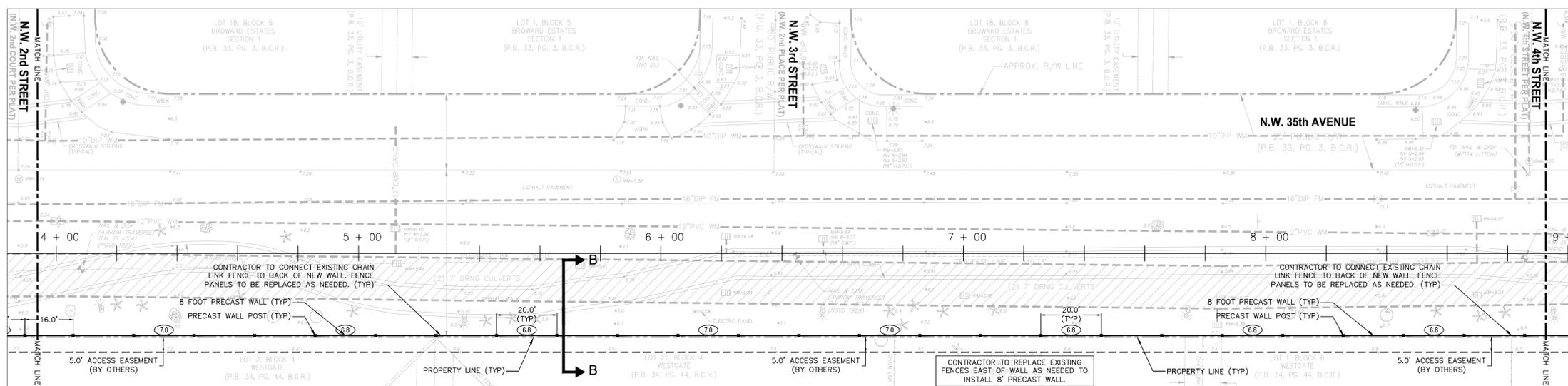
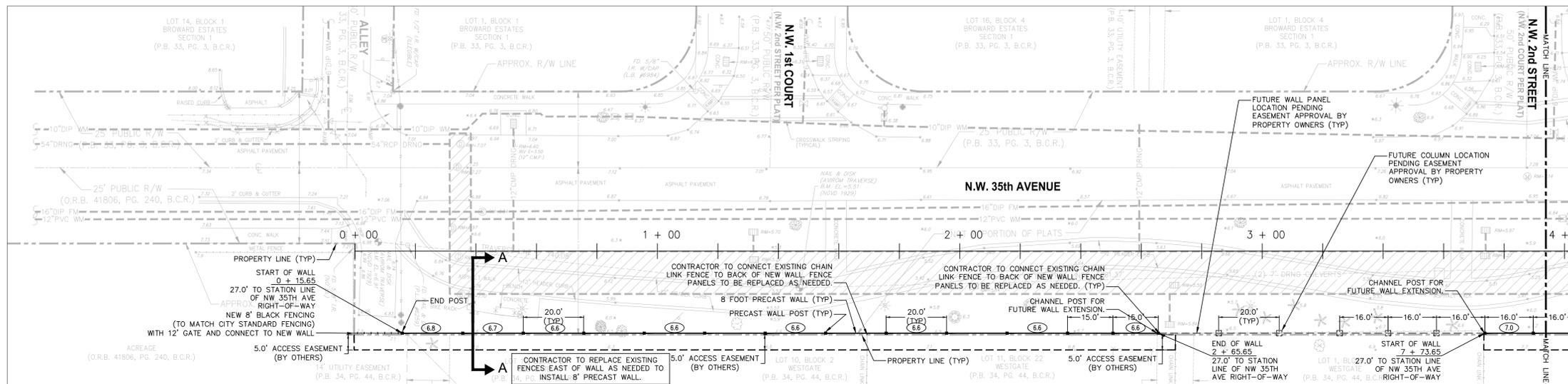
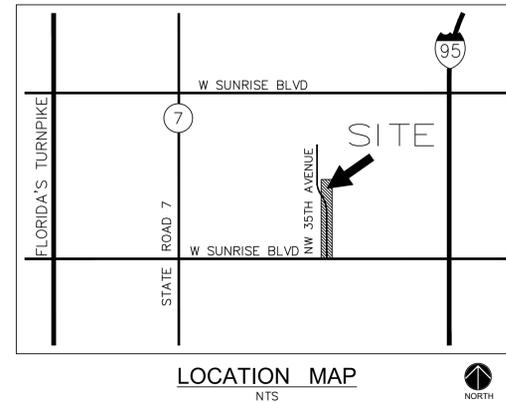
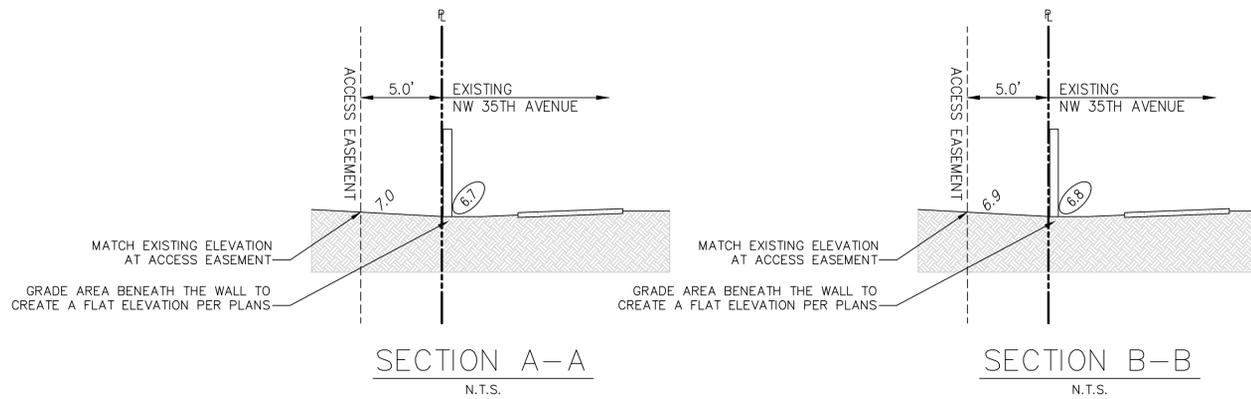
- ⊖ PROPOSED ELEVATION (NAVD)
- ⊕ EXISTING ELEVATION (NAVD)
- ☐ PROPOSED CATCH BASIN
- ⊏ PROPOSED PLUG
- ⊕ TEE
- ⊕ WATER METER
- ⊕ DOUBLE DETECTOR CHECK W/ WAFER CHECK VALVE ON DOWNSTREAM SIDE
- ⊕ REDUCED PRESSURE BACKFLOW PREVENTOR
- ⊕ DIRECTIONAL FLOW ARROW
- PROPOSED MANHOLE
- W - WATER MAIN
- FM - SANITARY FORCE MAIN
- ⊕ VALVE
- ⊕ FIRE HYDRANT
- ⊕ SIAMOSE CONNECTION
- ⊕ CLEANOUT
- ▬ EDGE OF PROPOSED PAVEMENT (ASPHALT)
- ▬ DIRECTION OF SURFACE DRAINAGE
- ⊕ SAMPLE POINT
- - - EXIST. WATER MAIN
- - - EXIST. UTILITY LINE TO BE ABANDONED IN PLACE

WALL NOTES:

1. CONTRACTOR RESPONSIBLE FOR REPLACING ENTIRE SIDEWALK FLAG FOR ANY NEW CRACKS THAT ARE CAUSED DURING CONSTRUCTION WHICH ARE NOT INCLUDED IN THE SCOPE OF WORK.
2. SIDEWALK REPLACEMENT WILL BE BETWEEN NEAREST JOINTS.
3. SLOPE ON SIDEWALKS SHALL NOT EXCEED 5% SLOPE IN DIRECTION OF TRAVEL OR 2% CROSS SLOPE. NOTIFY ENGINEER PRIOR TO CONSTRUCTION OF ANY GRADING THAT DOES NOT COMPLY WITH THIS REQUIREMENT.
4. CONTRACTOR RESPONSIBLE FOR REPLACING ANY LANDSCAPING OR SOD THAT IS DAMAGED DURING CONSTRUCTION. NEW GRASS WILL NEED TO BE PROVIDED ALONG ENTIRE LENGTH OF NEW WALL. NEW LANDSCAPING WILL NEED TO BE WATERED UNTIL IT TAKES ROOT.
5. CONTRACTOR TO SUBMIT SIGNED AND SEALED STRUCTURAL DRAWINGS FOR THE WALL TO THE CITY OF LAUDERHILL BUILDING DEPARTMENT AND ENGINEER OF RECORD.
6. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR ALTERNATE WALLS TO THE CITY OF LAUDERHILL BUILDING DEPARTMENT AND ENGINEER OF RECORD.
7. CONTRACTOR TO PROVIDE AS-BUILT OF CONSTRUCTED WALL LOCATION UPON COMPLETION OF PROJECT.
8. THERE SHALL BE A MAXIMUM OF 2" DIFFERENCE BETWEEN WALL PANELS.

GENERAL NOTES:

1. BROWARD COUNTY REQUIRES A MINIMUM OF 72-HOUR NOTICE FOR INSPECTIONS.
2. BUS STOP MODIFICATIONS SHALL BE COORDINATED WITH BROWARD COUNTY TRANSIT, MR. KURT PETROGARE AT 954-357-6793.
3. CURB RAMP SHALL NOT EXCEED A SLOPE OF 8.33% OR A RISE OF MORE THAN 6 INCHES.
4. CONTRACTOR TO REPAIR ALL DAMAGED CURB AND GUTTERS, CURB RAMP, TOP INLETS WITHIN PERMIT LIMITS AS A RESULT OF CONSTRUCTION METHODS.
5. ONLY TYPE B (CONSTRUCTION JOINTS) SHALL BE USED ON SIDEWALK WITHIN BROWARD COUNTY RIGHT-OF-WAY.
6. ALL COMPACTED SIDEWALK SUBGRADE TO EXTEND AT LEAST 6" BEYOND EACH SIDE OF THE SIDEWALK WHERE R/W ALLOWS.
7. ALL DETECTABLE WARNINGS SHALL BE CAST-IN-PLACE TYPE. GLUED DOWN PANELS ARE NOT PERMITTED.
8. SURVEY INFORMATION BASED ON SURVEY PROVIDED BY AVIROM & ASSOCIATES, INC. DATED APRIL 4, 2019.
9. ELEVATIONS SHOWN ARE NAVD88.



REFER TO PLAN BELOW

SEE SHEET C0.2

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 PHONE: (954) 522-1004 | WWW.FLYNNENGINEERING.COM
 EBF 6578

SITE PLAN

Sheet Title

NW 35TH AVENUE WALL

Job Title

NW 35TH AVENUE
LAUDERHILL, FLORIDA 33311



Revisions

Phase:
 PERMIT
 DOCUMENTS

SEAL

Scale:	Date
1"=20'	10/02/23
Job No.	Plot Date
23-1752.00	10/02/23
Drawn by	Sheet No.
BMK	C1.1
Proj. Mgr.	BMK
Appr. by	1 of 8
BMK	

CALL 48 HOURS BEFORE YOU DIG IN FLORIDA

IT'S THE LAW
 811
 SUNSHINE STATE ONE CALL OF FLORIDA, INC.

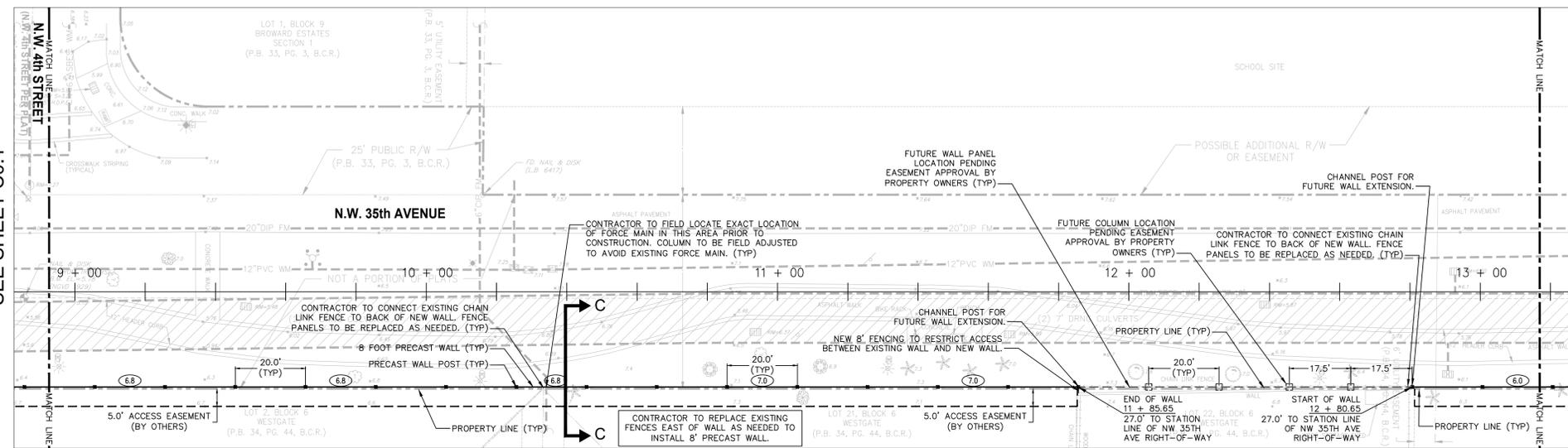
VERTICAL DATUM CONVERSION
 GRADING SHOWN UTILIZES N.A.V.D. 88

N.G.V.D. 29

N.A.V.D. 88

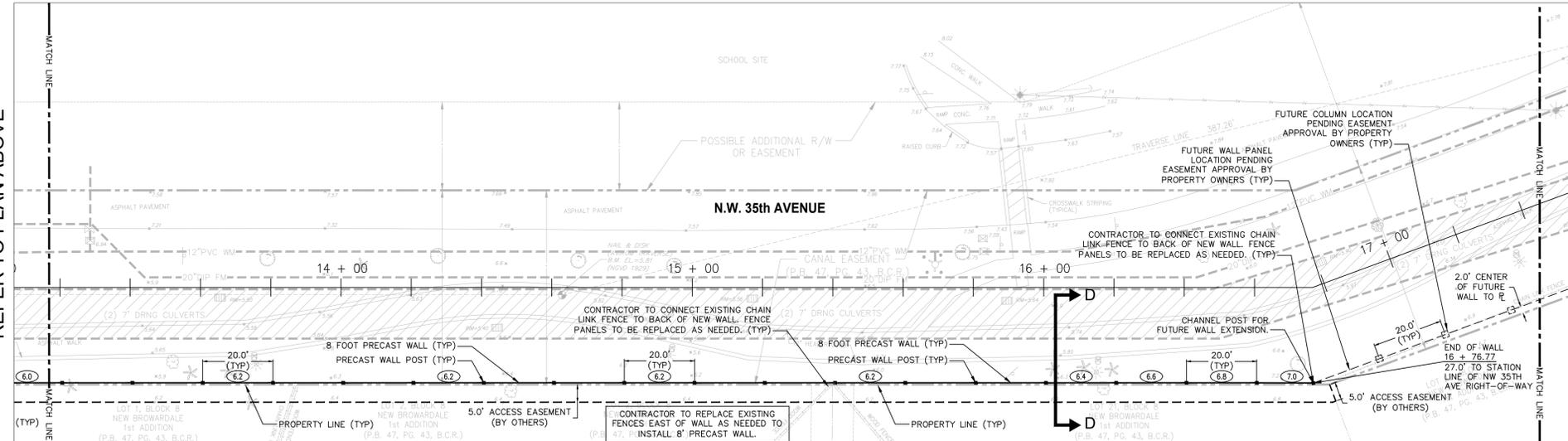
N.A.V.D. 88 = N.G.V.D. 29 - 1.5'
 N.G.V.D. 29 = N.A.V.D. 88 + 1.5'

SEE SHEET C0.1



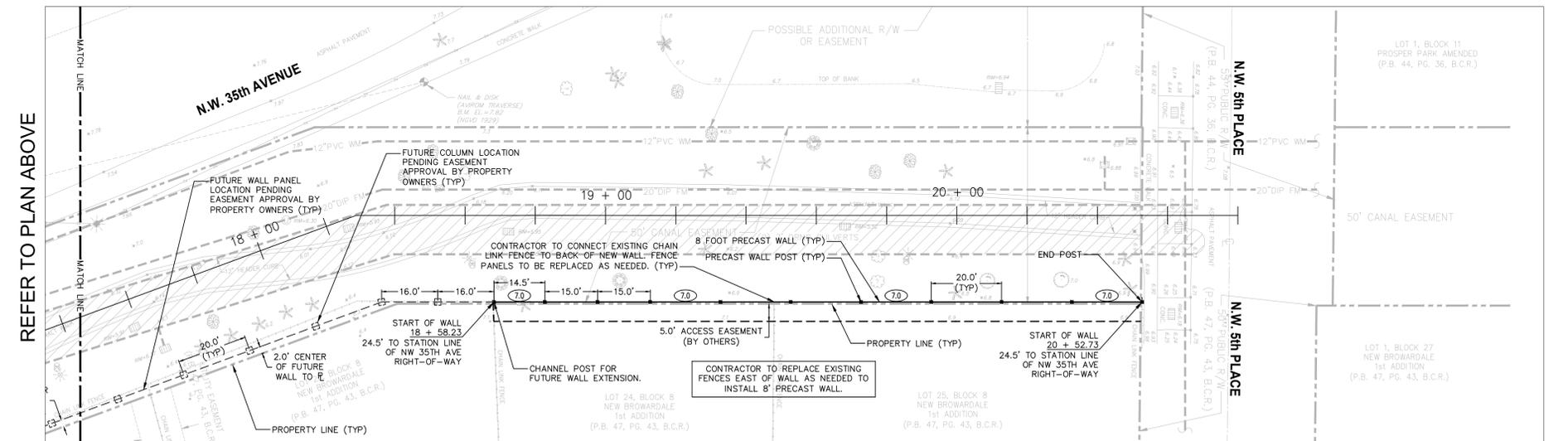
REFER TO PLAN BELOW

REFER TO PLAN ABOVE



REFER TO PLAN BELOW

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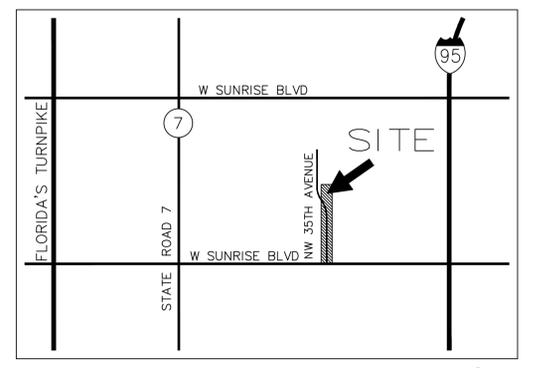


GENERAL NOTES:

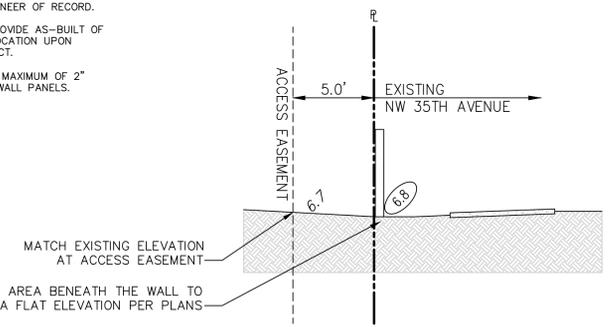
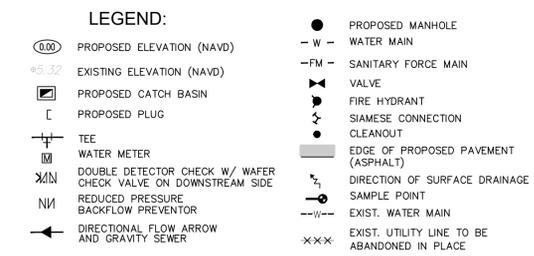
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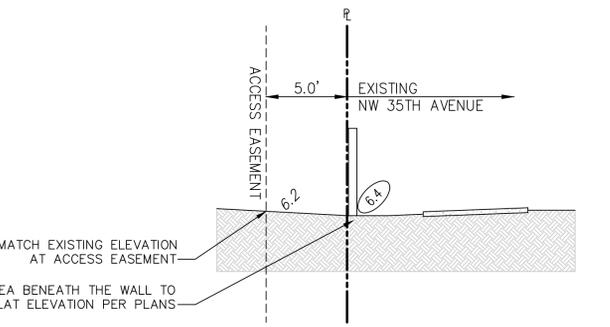
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LOCATION MAP



SECTION C-C
N.T.S.



SECTION D-D
N.T.S.

CALL 48 HOURS BEFORE YOU DIG IN FLORIDA

IT'S THE LAW
811
SUNSHINE STATE ONE CALL OF FLORIDA, INC.

VERTICAL DATUM CONVERSION
GRADING SHOWN UTILIZES N.A.V.D. 88

N.G.V.D. 29
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EFL 6578

SITE PLAN

Sheet Title

NW 35TH AVENUE WALL
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LAUDERHILL, FLORIDA 33311

Job Title



Revisions

Phase:
PERMIT
DOCUMENTS

SEAL

Scale:	Date
1"=20'	10/13/23
Job No.	Plot Date
23-1752.00	10/13/23
Drawn by	Sheet No.
BMK	C1.2
Proj. Mgr.	BMK
Appr. by	2 of 8
BMK	

Revisions	

Phase:
 PERMIT DOCUMENTS

SEAL

Scale: N.T.S.	Date 08/07/23
Job No. 23-1752.00	Plot Date 08/07/23
Drawn by BMK	Sheet No. C2
Proj. Mgr. BMK	
Appr. by JMF	3 of 8

NOTE
 APPROVAL OF THIS PLAN DOES NOT CONSTITUTE A PERMIT FOR CONSTRUCTION. A PERMIT FOR CONSTRUCTION MUST BE OBTAINED FROM THE BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION PRIOR TO COMMENCING CONSTRUCTION IN THE PUBLIC RIGHT-OF-WAY.

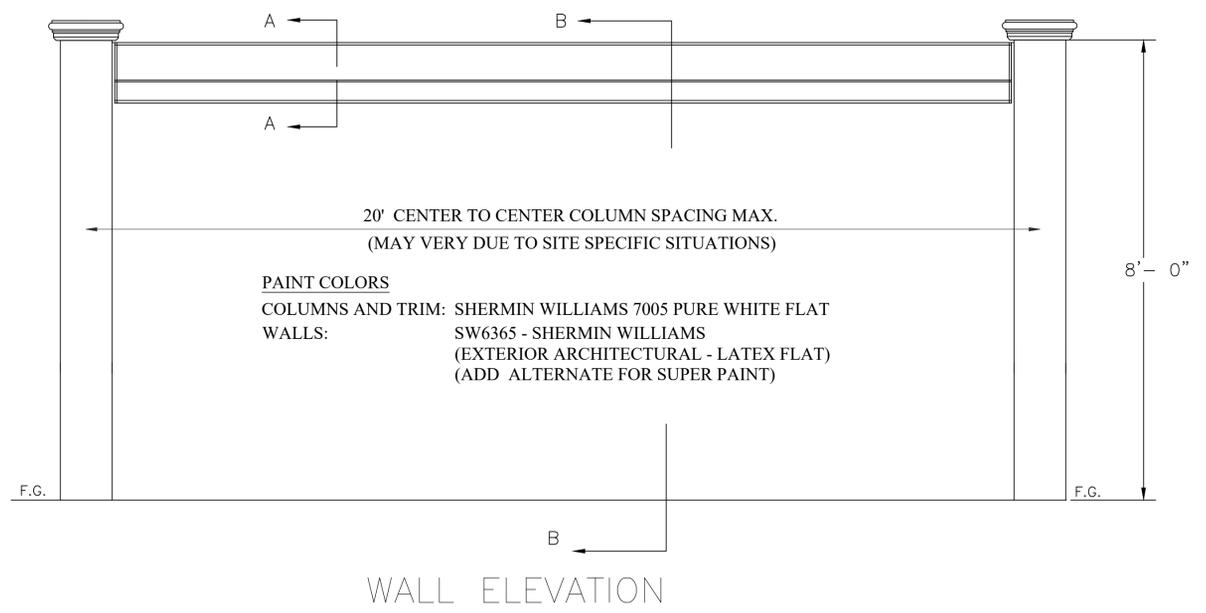
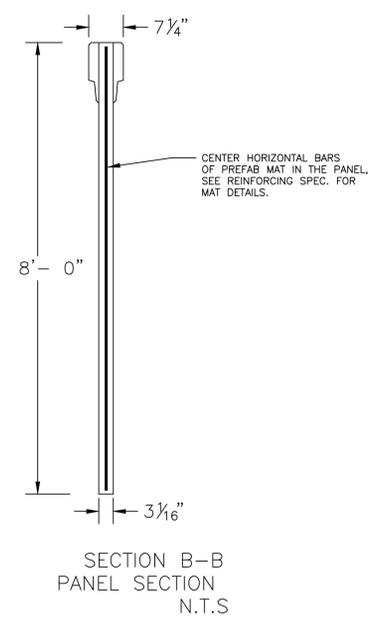
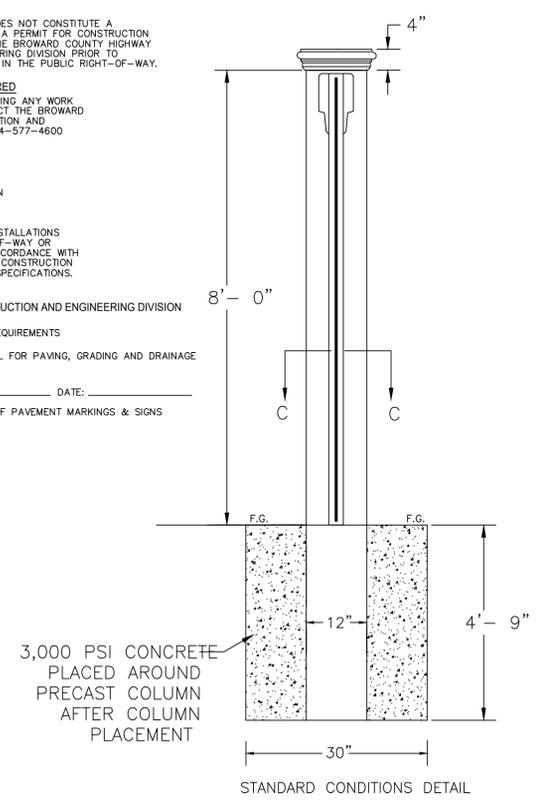
NOTICE INSPECTION REQUIRED
 24 HRS. PRIOR TO COMMENCING ANY WORK IN THE PUBLIC R/W CONTACT THE BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION AT 954-577-4600 FOR INSPECTION.

PERMIT SET
 MUST BE ON SITE AT ALL TIMES DURING CONSTRUCTION

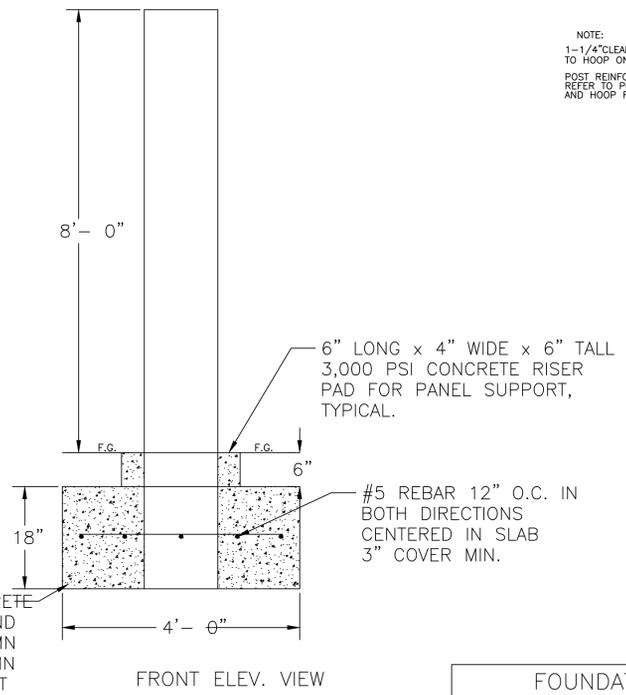
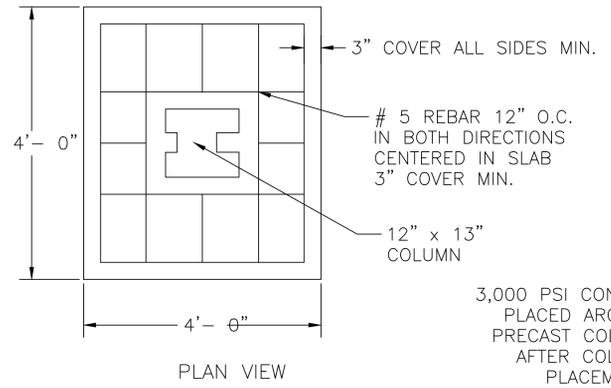
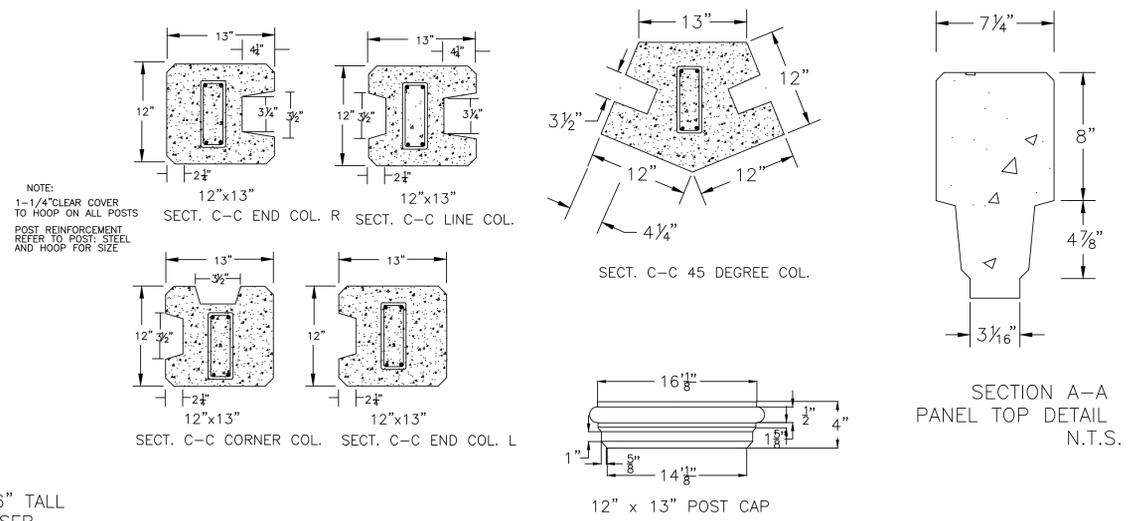
MATERIAL
 ALL MATERIAL USED AND INSTALLATIONS WITHIN THE PUBLIC RIGHT-OF-WAY OR EASEMENTS SHALL BE IN ACCORDANCE WITH BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION SPECIFICATIONS.

BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION
 PLAN CONSISTANT WITH PLAT REQUIREMENTS
 PUBLIC RIGHT OF WAY APPROVAL FOR PAVING, GRADING AND DRAINAGE

BY: _____ DATE: _____
 DOES NOT INCLUDE APPROVAL OF PAVEMENT MARKINGS & SIGNS



- KNOWN CROSSING LOCATIONS**
- AT&T CROSSING AT STA 11+80
 - AT&T CROSSING AT STA 23+90



- NOTES:**
- PANELS = 7,000 PSI CONCRETE
 - COLUMNS AND CAPS = 4,000 PSI CONCRETE
 - FOUNDATIONS = 3,000 PSI CONCRETE
 - REINFORCING STEEL FOR PANELS TO BE ASTM A615 DEFORMED BARS MIN. 70,000 PSI, ALL OTHER STEEL TO BE 60,000 PSI
 - WIND LOAD DESIGN CONFORMS TO F.B.C. 2017 AND ASCE 7-10, FOR WIND LOAD OF 170 M.P.H. 3 SECOND GUST, EXPOSURE 'C', ASD DESIGN FOR A SOLID FENCE

SPREAD FOOTING DETAILS IF NEEDED.

FOUNDATION DEPTH SCHEDULE
 BASED ON 30" DIA FOOTING, AND SOIL BEARING CAP. OF 2000 P.S.F.

WALL HEIGHT	SOLID ROCK	DRY, UNDISTURBED MEDIUM DENSITY, SAND	SATURATED, UNDISTURBED MEDIUM, DENSITY SAND
8'-0"		4'-9"	
ALTERNATE FOOTING DIMENSIONS			

REINFORCING STEEL SPECIFICATIONS

WALL HEIGHT	COLUMN - REINFORCEMENT DETAILS			PANEL - MESH REINFORCEMENT SYSTEM	
	POST SIZE	REINF.	HOOPS	MAT SIZE	HORIZONTAL STEEL
8'-0"	12"x13"	4 - # 6 RE-BARS	3" ABOVE FTG. THEN 4-1/2" O.C. TO 2'-6" ABOVE FTG. THEN BAL. AT 18" O.C.	7'-8"x19'-0"	12" O.C. A.S. 0.110 4" O.C. A.S. 0.27

PRECAST WALL SYSTEMS, INC.
 1888 NW 22ND COURT
 POMPANO BEACH, FL 33069
 954-973-8488

PRECAST WALL SYSTEMS INC.
 1888 NW 22 COURT
 POMPANO BEACH
 FLORIDA 33069
 PH 954-973-8488

I. GENERAL NOTES

A. APPLICABLE CODES

1. ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE CITY, COUNTY AND STATE.
2. CONSTRUCTION SAFETY - ALL CONSTRUCTION SHALL BE DONE IN A SAFE MANNER. SPECIFICALLY, THE RULES AND REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) SHALL BE STRICTLY OBSERVED.
3. THE CONTRACTOR SHALL BE REQUIRED TO COMPLY WITH CHAPTER 90-96 OF THE LAWS OF FLORIDA (THE TRENCH SAFETY ACT) AND OSHA STANDARD 29 C.F.R. SECTION 1926.650 SUBPART P. THE CONTRACTOR SHALL SUBMIT WITH HIS CONTRACT A COMPLETED, SIGNED, AND NOTARIZED COPY OF THE TRENCH SAFETY ACT COMPLIANCE STATEMENT. THE CONTRACTOR SHALL ALSO SUBMIT A SEPARATE COST ITEM IDENTIFYING THE COST OF COMPLIANCE WITH THE APPLICABLE TRENCH SAFETY CODES.
4. NO CONSTRUCTION MAY COMMENCE UNTIL THE APPROPRIATE PERMITS HAVE BEEN OBTAINED FROM ALL LOCAL, STATE AND FEDERAL AGENCIES.

B. PRECONSTRUCTION RESPONSIBILITIES

1. UPON RECEIPT OF NOTICE OF AWARD, THE CONTRACTOR SHALL ARRANGE A PRECONSTRUCTION CONFERENCE TO INCLUDE ALL INVOLVED GOVERNMENTAL AGENCIES, ALL AFFECTED UTILITY OWNERS, THE OWNER, THE ENGINEER AND HIMSELF.
2. THE CONTRACTOR SHALL OBTAIN AN SUNSHINE STATE ONE CALL OF FLORIDA CERTIFICATION NUMBER AT LEAST 48 HOURS PRIOR TO PRIOR TO BEGINNING ANY EXCAVATION.
3. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE LOCATION AND MATERIAL OF ALL EXISTING UTILITIES WITHIN THE AREA OF CONSTRUCTION.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ANY EXISTING UTILITIES FOR WHICH HE FAILS TO REQUEST LOCATIONS FROM THE UTILITY OWNER. HE IS RESPONSIBLE AS WELL FOR DAMAGE TO ANY EXISTING UTILITIES WHICH ARE PROPERLY LOCATED.
5. IF UPON EXCAVATION, AN EXISTING UTILITY IS FOUND TO BE IN CONFLICT WITH THE PROPOSED CONSTRUCTION OR TO BE OF A SIZE OR MATERIAL DIFFERENT FROM THAT SHOWN ON THE PLANS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER.

C. INSPECTIONS

1. THE OWNER, ENGINEER, AND LOCAL PERMITTING AGENCIES MAY MAKE INSPECTIONS OF THE WORK AT ANY TIME. THE CONTRACTOR SHALL COOPERATE FULLY WITH ALL INSPECTIONS.
1. SHOP DRAWINGS
 1. THE CONTRACTOR SHALL SUBMIT (3) FIVE SETS OF SHOP DRAWINGS FOR APPROVAL TO THE ENGINEER OF RECORD PRIOR TO FABRICATION OF CONSTRUCTION FOR ALL MATERIALS USED ON THE PROJECT. APPROVED SHOP DRAWINGS FROM THE ENGINEER SHALL THEN BE SUBMITTED BY THE CONTRACTOR TO THE COUNTY OR CITY FOR THEIR APPROVAL. NO CONSTRUCTION SHALL COMMENCE UNTIL THE APPROVED SHOP DRAWINGS HAVE BEEN OBTAINED BY THE CONTRACTOR FROM THE ENGINEER, CITY, AND/OR COUNTY.
 2. INDIVIDUAL SHOP DRAWINGS FOR ALL PRECAST STRUCTURES ARE REQUIRED. CATALOG LITERATURE WILL NOT BE ACCEPTED FOR PRECAST STRUCTURES.

D. TEMPORARY FACILITIES

1. TEMPORARY UTILITIES - IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE FOR SUPPLY OF TEMPORARY WATER SERVICE, SANITARY FACILITIES AND ELECTRICITY TO HIS EMPLOYEES AND SUBCONTRACTORS FOR THEIR USE DURING CONSTRUCTION.
2. TRAFFIC REGULATION - MAINTENANCE OF TRAFFIC IN THE PUBLIC RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH THE MUTCD AND THE FOOT STANDARD SPECIFICATIONS.
3. 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 HOLES SHALL BE LEFT OPEN OVERNIGHT.

F. PROJECT SITE

1. DURING CONSTRUCTION THE PROJECT SITE AND ALL ADJACENT AREAS SHALL BE MAINTAINED IN A NEAT AND CLEAN MANNER. UPON FINAL CLEAN UP, THE CONTRACTOR SHALL REMOVE ALL EXCESS MATERIAL, SURPLUS MATERIAL OR TRASH. THE PAVED AREAS SHALL BE SWEPT BROADLY CLEAN.
2. THE CONTRACTOR SHALL RESTORE OR REPLACE, WHEN AND AS DIRECTED BY THE ENGINEER ANY PUBLIC OR PRIVATE PROPERTY DAMAGED BY HIS WORK, EQUIPMENT, EMPLOYEES OR THOSE OF HIS SUBCONTRACTORS TO A CONDITION AT LEAST EQUAL TO THAT EXISTING IMMEDIATELY PRIOR TO THE BEGINNING OF OPERATIONS. TO THIS END, THE CONTRACTOR SHALL DO AS REQUIRED 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, DRAINAGE, CATCH BASINS, OR ELSEWHERE AS A RESULT OF THE CONTRACTOR'S OPERATIONS, SUCH MATERIALS SHALL BE REMOVED AND SATISFACTORILY DISPOSED OF DURING PROGRESS OF THE WORK, AND THE AREA KEPT IN A CLEAN AND NEAT CONDITION.

G. PROJECT RECORD DOCUMENTS

1. THE CONTRACTOR SHALL MAINTAIN ACCURATE AND COMPLETE RECORDS OF WORK ITEMS COMPLETED, INFORMATION RELATIVE TO MANHOLES, VALVES, SERVICE FITTINGS, LENGTH OF PIPING, AND OTHER ELEVATIONS. FINISHED GRADE ELEVATIONS AND THE LIKE, SHALL BE ACCURATELY RECORDED BY THE CONTRACTOR. TOP ELEVATIONS @ 100' D.C.
2. PRIOR TO THE PLACEMENT OF ANY ASPHALT OR CONCRETE PAVEMENT, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER OF RECORD "AS-BUILT" PLANS SHOWING LIMEROCK BASE GRADES, ALL DRAINAGE, WATER, AND SEWER IMPROVEMENTS. PAVING ALL OPERATIONS SHALL NOT COMMENCE UNTIL THE ENGINEER HAS REVIEWED THE "AS-BUILTS" AND THE ENGINEER HAS APPROVED PAVING TO COMMENCE.
3. ALL REQUIRED DENSITY AND LBR TEST RESULTS FOR SUBGRADE SHALL BE PROVIDED TO THE ENGINEER PRIOR TO PLACING LIMEROCK BASE MATERIAL.
4. ALL REQUIRED DENSITY AND LBR TEST RESULTS FOR LIMEROCK SHALL BE PROVIDED TO THE ENGINEER PRIOR TO PLACING ASPHALT.
5. ALL "AS-BUILT" INFORMATION SUBMITTED TO THE ENGINEER SHALL BE SUFFICIENTLY ACCURATE, CLEAR AND LEGIBLE TO SATISFY THE ENGINEER AND ANY APPLICABLE REVIEWING AGENCY 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 FIVE COMPLETE SETS OF "AS-BUILT" CONSTRUCTION DRAWINGS (PRINTS) AND ONE HUNDRED ORIGINALS. THESE DRAWINGS SHALL BE MARKED TO SHOW "AS-BUILT" CONSTRUCTION CHANGES AND DIMENSIONED LOCATIONS AND ELEVATIONS OF ALL IMPROVEMENTS AND SHALL BE SIGNED BY THE CONTRACTOR.
7. ALL "AS-BUILT" INFORMATION ON ELEVATIONS OF PAVING, DRAINAGE, WATER, AND SEWER SHALL BE CERTIFIED BY A REGISTERED LAND SURVEYOR.
8. ALL "AS-BUILT" INFORMATION MUST BE PROVIDED IN AUTOCAD® RELEASE 14 OR 2000 FORMAT.

H. EARTHWORK

1. NONE OF THE EXISTING MATERIAL IS TO BE INCORPORATED IN THE LIMEROCK BASE.
2. ALL SUBGRADE UNDER PAVED AREAS SHALL 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-99.
4. ALL ORGANIC AND OTHER UNSUITABLE MATERIAL WITHIN WORK LIMITS AND SWALE AREAS SHALL BE REMOVED.

I. PAVING

1. TESTING - REQUIRED, ASPHALT AND LIMEROCK TESTS SHALL BE TAKEN AT THE DIRECTION OF THE ENGINEER OR THE LOCAL GOVERNMENT AGENCY.

J. GENERAL UTILITY NOTES

1. THE LOCATION AND SIZE OF ALL EXISTING UTILITIES AND TOPOGRAPHY HAS BEEN PREPARED FROM THE MOST RELIABLE INFORMATION AVAILABLE TO THE ENGINEER. THIS INFORMATION IS NOT GUARANTEED AND IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION (VERTICAL & HORIZONTAL) OF ANY EXISTING UTILITIES AND TOPOGRAPHY PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL VERIFY ALL UTILITIES BY ELECTRONIC METHODS AND BY HAND EXCAVATION IN COORDINATION WITH ALL UTILITY COMPANIES. PRIOR TO BEGINNING ANY CONSTRUCTION OPERATIONS, ANY AND ALL CONFLICTS OR DISCREPANCIES OF CONSTRUCTION DRAWINGS SHALL BE RESOLVED BY THE ENGINEER PRIOR TO BEGINNING ANY CONSTRUCTION OPERATIONS. THIS WORK BY THE CONTRACTOR SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF EXISTING UTILITIES SHOWN OR FOR ANY EXISTING UTILITIES NOT SHOWN.
2. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES IF APPLICABLE:
 - FLORIDA POWER AND LIGHT COMPANY/SOUTHERN BELL- LOCAL GAS COMPANY-
 - LOCAL WATER AND SEWER UTILITY COMPANIES (-
 - LOCAL CABLE TELEVISION COMPANIES (-
 - CITY ENGINEERING DEPARTMENT-
 - FLORIDA DEPARTMENT OF TRANSPORTATION- SUNSHINE STATE ONE CALL OF FLORIDA- (1-800-452-4772)
 - FOR STREET EXCAVATION OR CLOSING - (1-800-342-7262)
 - FIRE DISPATCH-
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR AND RESTORATION OF EXISTING PAVEMENT, PIPES, CONDUITS, CABLES, LOCAL AND LANDSCAPING DAMAGE. AS A RESULT OF THE CONTRACTOR'S OPERATIONS AND/OR THOSE OF HIS SUBCONTRACTORS, AND SHALL RESTORE THEM PROPERLY TO THE ORIGINAL CONDITION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR AND RESTORATION OF ANY AND ALL DAMAGE TO THE DAMAGED UTILITY OR PROPERTY.
4. COORDINATE CONSTRUCTION SCHEDULING FOR CONNECTION TO THE EXISTING WATER AND SEWER LINES WITH THE CITY UTILITY DEPARTMENT.
5. ALL PAVEMENT RESTORATION TO BE MADE IN ACCORDANCE WITH THE CITY, COUNTY OR STATE OF FLORIDA D.O.T. STANDARD SPECIFICATIONS, WHERE APPLICABLE.
6. PRIOR TO FINAL ACCEPTANCE, THE CONTRACTOR SHALL SUPPLY THE FOLLOWING INFORMATION TO THE ENGINEER:
 - ALL CONSTRUCTION AND MATERIALS MEET OR EXCEEDS THE DESIGN AND HAVE BEEN INSTALLED PER THE DRAWINGS AND/OR AS-BUILT DRAWINGS.
 - THE CONTRACTOR SHALL COORDINATE THE WORK WITH OTHER CONTRACTORS IN THE AREA AND ANY OTHER UNDERGROUND CONDUIT EQUIPMENT FOR FLOODING BELL, IRRIGATION SYSTEM, ETC., PRIOR TO BEGINNING CONSTRUCTION.
 - COORDINATE RELOCATION OF ALL EXISTING UTILITIES WITH APPLICABLE UTILITY COMPANIES.
8. NO TRENCHES OR HOLES NEAR WALKWAYS, IN ROADWAYS OR THEIR SHOULDERS ARE TO BE LEFT OPEN OVERNIGHT WITHOUT WRITTEN PERMISSION OF THE CITY OR OWNER.
9. THE CONTRACTOR MUST NOTIFY FLYNN ENGINEERING SERVICES, P.A. IMMEDIATELY STARTING EACH PHASE OF ANY UNDERGROUND UTILITY WORK OR PAVING AND GRADING OPERATIONS SO THAT THE PROPER INSPECTIONS MAY BE SCHEDULED.

K. SURVEY INFORMATION

1. SURVEY DATA - ALL ELEVATIONS ON THE PLANS OR REFERENCED IN THE SPECIFICATIONS ARE BASED ON NORTH AMERICA VERTICAL DATUM OF 1988.
2. SURVEY INFORMATION BASED ON AVIRON & ASSOCIATES, INC. DATED 02/19/14 (JOB # 9543-2) (NAVDB8).

11. CONSTRUCTION SPECIFICATIONS

A. GENERAL

1. IT IS THE INTENT OF THESE SPECIFICATIONS TO DESCRIBE THE MINIMUM ACCEPTABLE TECHNICAL REQUIREMENTS FOR THE MATERIALS AND WORKMANSHIP FOR CONSTRUCTION OF SITE IMPROVEMENTS FOR THIS PROJECT. SUCH IMPROVEMENTS SHALL GENERALLY INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING: GRADING, PAVING, REMOVAL OF EXISTING PAVEMENT, AND STORM DRAINAGE.
2. IT IS THE INTENT THAT THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED 1991 TOGETHER WITH SUPPLEMENTAL SPECIFICATIONS TO THE 1991 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED 1991 BE USED WHERE APPLICABLE FOR THE VARIOUS WORK, AND THAT WHERE SUCH WORDING THEREIN REFERS TO THE STATE OF FLORIDA AND ITS DEPARTMENT OF TRANSPORTATION AND PERSONNEL, SUCH WORDING IS INTENDED TO BE REPLACED WITH THE WORDING WHICH WOULD PROVIDE PROPER TERMINOLOGY THEREBY MAKING SUCH STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AS THE STANDARD SPECIFICATIONS FOR THIS PROJECT. IF WITHIN A PARTICULAR SECTION, ANOTHER SECTION, ARTICLE OR PARAGRAPH IS REFERRED TO, IT SHALL BE PART OF THE STANDARD SPECIFICATIONS ALSO. THE CONTRACTOR SHALL ABIDE BY ALL LOCAL AND STATE LAWS, REGULATIONS AND BUILDING CODES WHICH HAVE JURISDICTION IN THE AREA.
3. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS AND EQUIPMENT AND PERFORM ALL OPERATIONS REQUIRED TO COMPLETE THE CONSTRUCTION OF A PAVING, DRAINAGE, WATER AND SEWER SYSTEM AS SHOWN ON THE PLANS, SPECIFIED HEREIN, OR BOTH. IT IS THE INTENT TO PROVIDE A COMPLETE AND OPERATING FACILITY IN ACCORDANCE WITH THESE SPECIFICATIONS AND THE CONSTRUCTION DRAWINGS. THE MATERIAL AND EQUIPMENT SHOWN OR SPECIFIED SHALL NOT BE TAKEN TO EXCLUDE ANY OTHER INCIDENTALS NECESSARY TO COMPLETE THE WORK.
4. ALL LABOR, MATERIALS, AND METHODS OF CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH THE PLANS AND CONSTRUCTION SPECIFICATIONS AND THE MINIMUM ENGINEERING AND CONSTRUCTION STANDARDS ADOPTED BY THE UNIT OF GOVERNMENT WHICH HAS JURISDICTION AND RESPONSIBILITY FOR THE CONSTRUCTION. WHERE CONFLICTS OR OMISSIONS EXIST, THE JURISDICTIONAL GOVERNMENT ENGINEERING DEPARTMENT'S STANDARDS SHALL GOVERN. SUBSTITUTIONS AND DEVIATIONS FROM PLANS AND SPECIFICATIONS SHALL BE PERMITTED ONLY WHEN WRITTEN APPROVAL HAS BEEN ISSUED BY THE ENGINEER.
5. GUARANTEE - ALL MATERIALS AND EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR UNDER THIS CONTRACT SHALL BE GUARANTEED FOR A PERIOD OF (1) ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF ANY DEFECTIVE MATERIALS, DESIGN AND WORKMANSHIP. UPON RECEIPT OF NOTICE FROM THE OWNER OF FAILURE OF ANY PART OF THE GUARANTEED EQUIPMENT OR MATERIALS, DURING THE GUARANTEE PERIOD, THE AFFECTED PART OR MATERIALS SHALL BE REPLACED PROMPTLY WITH NEW PARTS OR MATERIALS BY THE CONTRACTOR, AT NO EXPENSE TO THE OWNER. IN THE EVENT THE CONTRACTOR FAILS TO MAKE NECESSARY REPLACEMENT OR REPAIRS WITHIN (7) SEVEN DAYS AFTER NOTIFICATION BY THE OWNER, THE OWNER MAY COMPLY WITH THE WORK AT THE EXPENSE OF THE CONTRACTOR.

B. EARTHWORK

1. ALL AREAS WITHIN THE LIMITS OF WORK SHALL BE CLEARED AND GRUBBED PRIOR TO CONSTRUCTION. THIS SHALL CONSIST OF THE COMPLETE REMOVAL AND DISPOSAL OF ALL TREES, BRUSH, STUMPS, ROOTS, GRASS, WEEDS, RUBBISH AND ALL OTHER OBSTRUCTIONS EXCEPT TO BE PRESERVED THROUGHOUT THE SURFACE OF THE EXISTING GROUND TO A DEPTH OF 1' . ITEMS DESIGNATED TO REMAIN SHALL BE THERMOPLASTIC IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
2. FILL MATERIAL SHALL BE CLASSIFIED AS A-1, A-2, OR A-2-4 IN ACCORDANCE WITH AASHTO M-145 AND SHALL BE FREE FROM VEGETATION AND ORGANIC MATERIAL, NOT MORE THAN 10% BY WEIGHT OF FILL MATERIAL SHALL PASS THE NO. 200 SIEVE.
3. ALL MATERIAL OF CONSTRUCTION SHALL BE SUBJECT TO INSPECTION AND TESTING TO ESTABLISH CONFORMANCE WITH THE SPECIFICATIONS AND SUITABLY FOR THE USES INTENDED. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 24 HOURS PRIOR TO THE TIME HE WILL BE READY FOR AN INSPECTION OR TEST. THE CONTRACTOR SHALL FOLLOW CITY AND COUNTY INSPECTION PROCEDURES. THE CONTRACTOR SHALL NOT PROCEED WITH ANY PHASE OF WORK DEPENDENT ON AN INSPECTION OR TEST OR AN EARLIER PHASE OF WORK PRIOR TO THAT TEST OR INSPECTION PASSING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING CERTIFIED MATERIAL TEST RESULTS TO THE ENGINEER OF RECORD PRIOR TO THE RELEASE OF FINAL CERTIFICATION BY THE ENGINEER. TEST RESULTS MUST INCLUDE, BUT MAY NOT BE LIMITED TO, DENSITIES FOR SUBGRADE AND LIMEROCK, UTILITIES, EXCAVATION, ASPHALT GRADATION REPORTS, CONCRETE CYLINDERS, ETC.
4. WHEN ENCOUNTERED, MUCK SHALL BE COMPLETELY REMOVED FROM THE CENTER LINE (10 FEET FEET) BEHIND THE EDGE OF PAVEMENT. EACH SIDE, ALL SUCH MATERIAL SHALL BE REMOVED TO A MINIMUM OF GRANULAR FILL, COMPACTED TO 98% OF MAXIMUM DENSITY (AASHTO T-180).
5. WHEN ENCOUNTERED WITH DRAINAGE SLEWS, HARDPAN OR MUCK SHALL BE REMOVED FOR A WIDTH OF (5) FIVE FEET AT THE INVERT AND REPLACED WITH GRANULAR MATERIALS.
6. ALL UNDERGROUND UTILITIES AND DRAINAGE INSTALLATIONS SHALL BE IN PLACE PRIOR TO SUBGRADE COMPACTATION AND PAVEMENT CONSTRUCTION.
7. GROUND ADJACENT TO ROADWAY/PAVEMENT HAVING RUNOFF SHALL BE GRADED (2) TWO INCHES LOWER THAN THE EDGE OF PAVEMENT TO ALLOW FOR THE PLACEMENT OF SDD.
8. SITE GRADING ELEVATIONS SHALL BE WITHIN 0.1' OF THE REQUIRED ELEVATION AND ALL AREAS SHALL BE GRADED TO DRAIN WITHOUT PONDING.
9. THE CONTRACTOR SHALL PERFORM ALL EXCAVATION, FILL, EMBANKMENT AND GRADING TO ACHIEVE THE PROPOSED PLAN GRADES INCLUDING TYPICAL ROAD SECTIONS, SIDE SLOPES AND CANAL SECTIONS. ALL WORK SHALL BE IN ACCORDANCE WITH SECTION 120 OF THE STANDARD SPECIFICATIONS. FILL MATERIAL IS REQUIRED IN EXCESS OF THAT GENERATED BY THE EXCAVATION. THE CONTRACTOR SHALL SUPPLY THIS MATERIAL AS REQUIRED FROM OFF-SITE.

C. DRAINAGE

1. INLETS - ALL INLETS SHALL BE THE TYPE DESIGNATED ON THE PLANS AND SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FLORIDA D.O.T. SPECIFICATIONS, 1991, SECTION 425. ALL INLETS AND SLOPES SHALL BE PROTECTED DURING CONSTRUCTION TO PREVENT SILTATION IN THE DRAINAGE SYSTEMS BY MEANS OF TEMPORARY PLUGS AND PLYWOOD OR PLASTIC COVERS OVER THE INLETS. THE ENTIRE DRAINAGE SYSTEM SHALL BE CLEARED OF ALL DEBRIS PRIOR TO FINAL ACCEPTANCE.
2. PIPE SPECIFICATIONS - THE MATERIAL TYPE IS SHOWN ON THE DRAWINGS BY ONE OF THE FOLLOWING DESIGNATIONS:
 - IRCP = REINFORCED CONCRETE ASTM DESIGNATION C-76, TABLE 111, F. D. D. T., SECTION 941.
 - CMP = CORRUGATED METAL CALUMINUM PIPE.
 - SCP (SMOOTH LINED) = CORRUGATED METAL ALUMINUM PIPE.
 - SCP (SMOOTH LINED) ASTM DESIGNATION M-196.
 - SCP = SLOTTED CONCRETE PIPE, F. D. D. T. SECTIONS 941 AND 942.
 - PVC = POLYVINYL CHLORIDE PIPE.
 - PMP = PERFORATED CMP, F. D. D. T. SECTION 945.
3. PIPE BACKFILL - REQUIREMENTS FOR PIPE BACKFILL CROSSING ROADS OR PARKING AREAS SHALL BE AS DEFINED IN THE FLORIDA D.O.T. SPECIFICATIONS 1991, SECTION 125-B. PIPE BACKFILL SHALL BE PLACED IN 6 INCH LIFTS AND COMPACTED TO 100% OF THE STANDARD PROCTOR (AASHTO T-99) SPECIFICATIONS.
4. LOCATION OF DRAINAGE STRUCTURES SHALL GOVERN, AND PIPE LENGTH MAY HAVE TO BE ADJUSTED TO ACCOMPLISH CONSTRUCTION AS SHOWN ON THESE PLANS.
5. PLASTIC FILTER FABRIC SHALL BE MIRAFI, TYPAR OR EQUAL CONFORMING TO SECTION 985 OF THE F. D. D. T. STANDARD SPECIFICATIONS.
6. ALL DRAINAGE LINES SHALL BE LAMPED PRIOR TO FINAL ACCEPTANCE.

D. PAVING

1. WHERE NEW ASPHALT MEETS EXISTING ASPHALT, THE EXISTING ASPHALT SHALL BE SAWCUT TO PROVIDE A STRAIGHT EVEN LINE. PRIOR TO REMOVING CURB OR GUTTER, THE ADJACENT ASPHALT SHALL BE SAWCUT TO PROVIDE A STRAIGHT EVEN LINE.
2. INTERNAL ASPHALT PAVING CONSTRUCTED ON EXISTING SANDY SOILS SHALL BE CONSTRUCTED WITH A 12" SUBGRADE, COMPACTED TO A MINIMUM DENSITY OF 100% MAXIMUM DENSITY AS DETERMINED BY AASHTO T-99. THE COMPACTED SUBGRADE SHALL BE CONSTRUCTED IN THE LIMITS SHOWN ON THE PLANS. ALL SUBGRADE SHALL HAVE AN LBR OF 40 UNLESS OTHERWISE NOTED.
3. ASPHALTIC CONCRETE SURFACE COURSE SHALL BE CONSTRUCTED TO THE LIMITS SHOWN ON THE PLANS. THE SURFACE COURSE SHALL CONSIST OF THE THICKNESS AND TYPE ASPHALTIC CONCRETE AS SPECIFIED IN THE PLANS. ALL ASPHALTIC CONCRETE SHALL BE IN ACCORDANCE WITH SECTIONS 300, 330, 331, 332, 333, 335, 337 AND 339 OF THE STANDARD SPECIFICATIONS.
4. LIMEROCK BASE SHALL BE PREPARED, COMPACTED AND GRADED AND SHALL BE IN ACCORDANCE WITH SECTION 300 OF THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 1991 EDITION. ALL LIMEROCK SHALL BE COMPACTED TO 98% PER AASHTO T-180 AND HAVE NOT LESS THAN 10% OF CARBORATES OF CALCIUM AND MAGNESIUM UNLESS OTHERWISE DESIGNATED. ALL LIMEROCK SHALL BE PRIMED. THE ENGINEER SHALL INSPECT THE COMPLETE BASE COURSE AND THE CONTRACTOR SHALL CORRECT ANY DEFICIENCIES AND CLEAN THE BASE COURSE PRIOR TO THE PLACEMENT OF THE PRIME COAT. A TRUCK COAT WILL ALSO BE REQUIRED IF THE ENGINEER FINDS THAT THE PRIME BASE HAS BECOME EXCESSIVELY DIRTY OR THE PRIME COAT HAS CURED TO THE EXTENT OF LOSING BOUNDING EFFECT PRIOR TO PLACEMENT OF THE ASPHALTIC CONCRETE SURFACE COURSE. THE PRIME AND TRUCK COATS SHALL BE IN ACCORDANCE WITH SECTION 300 OF THE STANDARD SPECIFICATIONS.
5. LIMEROCK BASE MATERIAL SHALL BE PLACED IN MAXIMUM 6" LIFTS. BASES GREATER THAN 6" SHALL BE PLACED IN TWO EQUAL LIFTS.
6. ASPHALT EDGES THAT ARE NOT CURBED SHALL BE SAWCUT TO PROVIDE A STRAIGHT EVEN LINE TO THE DIMENSIONS SHOWN ON THE HORIZONTAL CONTROL PLAN.

E. CONSTRUCTION

1. CONCRETE SIDEWALK SHALL BE 4" (CONST) 6" (OFFSITE) ON COMPACTED SUBGRADE WITH 1/2" EXPANSION JOINTS PLACED AT A MAXIMUM OF 30' CRACK CONTROL JOINTS SHALL BE 5" ON CENTER. SIDEWALK ELEVATION SHALL BE SET AT THE ROAD CROWN ELEVATION UNLESS OTHERWISE SPECIFIED BY LOCAL CODES OR SHOWN ON THE DRAWINGS. ALL CONCRETE SIDEWALKS SHALL HAVE A MINIMUM OF 3000 P.S.I. CONCRETE.
2. CONCRETE CURB SHALL BE CONSTRUCTED TO THE LIMITS SHOWN ON THE PLANS. THE CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 P.S.I. AT 28 DAYS AND SHALL BE IN ACCORDANCE WITH SECTION 345 OF THE STANDARD SPECIFICATIONS.

F. SIGNAGE AND PAVEMENT MARKINGS

1. THE ROADS AND PARKING AREAS SHALL BE STRIPED IN ACCORDANCE WITH THESE PLANS. NO STRIPES SHALL BE LESS THAN THE SPECIFIED WIDTH. NDR SHALL IT EXCEED THE SPECIFIED WIDTH BY MORE THAN 1/2" INCH STRIPING SHALL BE IN ACCORDANCE WITH SECTIONS 710 AND 971 OF THE STANDARD SPECIFICATIONS. ALL STRIPING WITHIN THE PUBLIC RIGHT-OF-WAY AND AT DRIVEWAY ACCESS POINTS SHALL BE THERMOPLASTIC IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
2. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL AND MAINTAIN ADEQUATE TRAFFIC CONTROL DEVICES, WARNING DEVICES AND BARRIERS FOR THE PURPOSE OF PROTECTING THE TRAVELING PUBLIC, HIS WORKMEN AND THE WORK AREA IN GENERAL. SUCH TRAFFIC CONTROL SHALL BE MAINTAINED FOR THE DURATION OF THE PROJECT PERIOD. INCLUDING ANY TEMPORARY SUSPENSIONS OF THE WORK. MAINTENANCE OF TRAFFIC SHALL BE IN ACCORDANCE WITH SECTION 102 OF THE STANDARD SPECIFICATIONS AND THE STATE OF FLORIDA, MANUAL OF TRAFFIC CONTROL AND SAFETY PRACTICES FOR STREET AND HIGHWAY CONSTRUCTION, MAINTENANCE AND UTILITY OPERATIONS.
3. ALL PAVEMENT MARKINGS ON-SITE SHALL BE THERMOPLASTIC UNLESS OTHERWISE NOTED.
4. ALL SIGNING AND MARKINGS SHALL CONFORM TO MUTCD AND BROWARD COUNTY TRAFFIC ENGINEERING STANDARDS (LATEST EDITION).

G. SEWER SYSTEM NOTES

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LOCAL UTILITY DEPARTMENT MINIMUM STANDARDS AND APPLICABLE CODES.
2. THE CONTRACTOR SHALL FIELD VERIFY THE VERTICAL AND HORIZONTAL LOCATION OF EXISTING SEWER LINES, MANHOLES, AND STUDENTS PRIOR TO CONSTRUCTION. INCLUDING ANY CONTRACTING SHALL NOTIFY THE ENGINEER IF THE FIELD INFORMATION DIFFERS FROM THAT SHOWN ON THE PLANS.
3. ALL GRAVITY SEWER PIPE 4" & LARGER SHALL BE POLYVINYL CHLORIDE (PVC) PIPE. PIPE SHALL BE IN ACCORDANCE WITH ASTM 3034 SDR 26 PVC ODF-SITE SHALL BE USED IN THE CITY R.O.W. THE PIPE SHALL BE COLORED GREEN FOR IN-GROUND IDENTIFICATION AS SEWER PIPE. MINIMUM DEPTH OF COVER SHALL BE 0.42 FOR 6" PIPE AND 12' FOR 6" SERVICE LATERALS.
5. DUCTILE IRON SEWER PIPE FOR GRAVITY MAINS SHALL BE CLASS 350 POLYLINE WITH A MINIMUM OF 30' OF COVER.
6. PVC LINES ENTERING OR LEAVING MANHOLES SHALL HAVE A NEOPRENE BOOT WITH STAINLESS STEEL ACCESSORIES.
7. CONNECTIONS TO EXISTING MAINS SHALL BE MADE UNDER THE DIRECTION OF THE CITY UTILITY DEPARTMENT.
8. CLEANOUTS SHALL BE INSTALLED AT ALL SEWER SERVICES EXCEEDING 75' IN LENGTH 75' WITH A CLEANOUT AT THE PROPERTY LINE. EASEMENT LINE, OR 5' FROM A BUILDING. THE CONTRACTOR SHALL COORDINATE THE LOCATION OF THE BUILDING CLEANOUT 6' FROM THE BUILDING AND ELEVATION TO THE END OF THE SEWER SERVICE WITH THE BUILDING PLUMBING CONTRACTOR.
9. LIMITS OF INFILTRATION OR EXFILTRATION OR LEAKAGE FOR THE ENTIRE SYSTEM, INCLUDING SERVICE LINES, SHALL NOT EXCEED A RATE OF 1 GALLON PER HOUR PER LINEAL FOOT. ALL SERVICE LINES SHALL BE THROUGHOUT THE SYSTEM. THE ALLOWABLE LIMITS OF INFILTRATION OR EXFILTRATION OF MANHOLES SHALL NOT EXCEED A RATE OF 4 BALLOONS PER MANHOLE PER 24 HOURS.
10. ALL SEWER MAINS AND SERVICES, UP TO AND INCLUDING THE END OF THE SERVICE, SHALL BE CONSTRUCTED WITH A MINIMUM OF A 15' UTILITY EASEMENT, UNLESS OTHERWISE SHOWN.
11. THE ENTIRE SYSTEM SHALL BE CLEANED PRIOR TO LAMPING OF THE LINES. 12" SANITARY SEWER MUST BE TELEVIEWED BY CONTRACTORS AT NO EXPENSE. ALL DEFICIENCIES OBSERVED ON THE VIDEO TAPES SHALL BE CORRECTED PRIOR TO CITY CERTIFICATION TO ANY AGENCY.
12. PROVIDE ORANGE RPM @ CENTERLINE OF ROAD OF NEAREST DRIVING LANE FOR MANHOLES LOCATED IN GREEN AREAS.

H. WATER NOTES

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LOCAL UTILITY DEPARTMENT MINIMUM STANDARDS AND APPLICABLE CODES.
2. ALL WATER PIPE 4" AND LARGER SHALL BE POLYVINYL CHLORIDE (PVC) PIPE. PRESSURE PIPE CONFORMING TO MAX C-900-97 SPEC-120, SDR-18 OR DUCTILE IRON CONFORMING TO THE REQUIREMENTS OF ANSI/AWWA C-151/A21.51-96 AND LINED AND COATED PER ANSI/AWWA C-104/A21.51-96 AND 10" DIP SHALL BE CLASS 350. MINIMUM DEPTH OF COVER IS 24" FOR 6" AND 30" FOR DIP. ALL PIPE TO HAVE 150 PSI MINIMUM PRESSURE RATING. FITTINGS 4" AND LARGER SHALL BE DUCTILE IRON MEETING ANSI/AWWA C-110/A21.10-98. FITTINGS MUST BE LINED AND SEAL COATED PER C-104/A21.4-95 PRESSURE RATING OF ALL FITTINGS SHALL BE 350 PSI. ALL WATER MAIN PIPES WITHIN THE CITIES RIGHT-OF-WAY OR EASEMENT SHALL BE DUCTILE IRON PIPE CLASS 350. ALL FIRE MAINS SHALL BE DIP OR PVC C-900 (SDR-14) AND PRESSURE TESTED TO 200 PSI FOR 2 HOURS.
3. ALL WATER PIPE SMALLER THAN 4 INCHES SHALL BE PVC MINIMUM SCHEDULE 80 WITH A MINIMUM WORKING PRESSURE OF 160 PSI. FITTINGS FOR PIPE SMALLER THAN 4" SHALL BE MINIMUM SCHEDULE 80 SOLVENT WELD SOCKET TYPE ASTM D-2464 OR MINIMUM SCHEDULE 80 THREADED TYPE ASTM D-2464.
4. THERE SHALL BE NO CONNECTION TO AN EXISTING WATER MAIN UNTIL PRESSURE AND BACTERIOLOGICAL TESTS HAVE BEEN RUN AND THE SYSTEM ACCEPTED BY THE CITY AND THE COUNTY HEALTH DEPARTMENT.
5. ALL CONNECTIONS TO EXISTING MAINS SHALL BE MADE UNDER THE DIRECTION OF THE CITY UTILITY DEPARTMENT.
6. WATER METERS 2" OR SMALLER SHALL BE INSTALLED BY THE CITY. THE CONTRACTOR SHALL COORDINATE WITH THE CITY UTILITY DEPARTMENT AND PROVIDE THE PROPER FITTINGS NECESSARY TO INSTALL THE METERS. ALL COSTS ASSOCIATED WITH THE METER INSTALLATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
7. GATE VALVES, 4" OR LARGER, SHALL MEET AWWA C-509-94 STANDARD. BUTTERFLY VALVES, 16" OR LARGER, SHALL MEET AWWA C-504-00, CLASS 150B STANDARDS.
8. FIRE HYDRANTS SHALL BE TRAFFIC BREAK AWAY TYPE CONFORMING TO AWWA C-502-94 STANDARDS. FIRE HYDRANTS SHALL BE MUELLER MODEL A-423 OR CLOW MEDALLION 2546-5B.
9. ALL TRENCHING, PIPE LAYING, BACKFILLING, PRESSURE TESTING, AND DISINFECTING MUST COMPLY WITH AWWA C-600-99 AND C-651-99 STANDARDS.
10. DEFLECT WATER MAINS AS NECESSARY TO AVOID ANY CONFLICTS WITH OTHER UTILITIES. ALLOWABLE DEFLECTION SHALL NOT EXCEED AWWA STANDARDS.
11. THE CONTRACTOR SHALL COORDINATE THE LOCATION AND ELEVATION OF THE ENDS OF THE WATER SERVICES WITH THE BUILDING PLUMBING CONTRACTOR.
12. CONTRACTOR SHALL FIELD VERIFY LOCATION OF EXISTING WATER MAINS AND PROPOSED CONNECTION POINTS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IF THE FIELD INFORMATION DIFFERS FROM THAT SHOWN ON THE PLANS.
13. ALL WATER MAINS TO BE FLUSHED VIA POLY PIG.
14. THE CONTRACTOR MUST ARRANGE AND PAY FOR ANY TEMPORARY WATER REQUIRED FOR CONSTRUCTION, CLEANING, TESTING, ETC..

13. TESTING

- A. ALL PIPE SHALL BE TESTED UNDER A CONSTANT PRESSURE OF 150 PSI (200 PSI FOR FIRE MAIN) FOR A MINIMUM TEST PERIOD OF 2 HOURS AND SHALL NOT EXCEED THE LEAKAGE REQUIREMENTS AS PER ANSI/AWWA C600-05 SPECIFICATIONS OF LEAKAGE FORMULA:

$$L = \frac{50 \sqrt{P}}{140,000}$$
 - L = ALLOWABLE LEAKAGE IN GALLONS PER HOUR.
 - P = TOTAL LENGTH OF PIPE TESTED, FEET.
 - D = DIAMETER OF THE PIPE TESTED, INCHES.
 - P = AVERAGE TEST PRESSURE, PSI.
- B. DISINFECTION OF ALL WATER LINES SHALL COMPLY WITH ANSI/AWWA C-651-05. BACTERIOLOGICAL SAMPLING POINTS ARE SHOWN ON THE WATER AND SEWER PLAN A CHLORINE RESIDUAL OF 3 TO 1.5 PPM SHALL BE MAINTAINED. ALL STERILIZATION SHALL BE AT THE FULL EXPENSE OF THE CONTRACTOR. BACTERIOLOGICAL SAMPLES MUST BE APPROVED BY THE COUNTY PUBLIC HEALTH UNIT AND THE CITY PRIOR TO OPERATION OF THE SYSTEM.
14. ALL PVC PIPE SHALL BE INSTALLED WITH METALLIC LOCATOR TAPE 18" ABOVE THE TOP OF PIPE.
15. BACK FLOW PREVENTORS MUST BE APPROVED BY THE CITY AS TO TYPE AND LOCATION PRIOR TO INSTALLATION.
16. ALL WATER MAIN PIPE, INCLUDING FITTINGS, INSTALLED ON OR AFTER AUGUST 28, 2003, EXCEPT PIPE INSTALLED UNDER A CONSTRUCTION PERMIT FOR WHICH HEALTH DEPARTMENT RECEIVED A COMPLETE APPLICATION BEFORE AUGUST 28, 2003, SHALL BE COLOR CODED OR MARKED USING BLUE AS A PREDOMINANT COLOR TO DIFFERENTIATE DRINKING WATER FROM RECLAIMED OR OTHER WATER. UNDERGROUND PLASTIC PIPE SHALL BE SOLIDWALL BLUE PIPE. SHALL HAVE A CO-EXTRUDED BLUE EXTERIOR SKIN, OR SHALL BE WHITE OR BLACK PIPE WITH BLUE STRIPES INCORPORATED INTO, OR APPLIED TO, THE PIPE WALL, AND UNDERGROUND METAL OR CONCRETE PIPE SHALL HAVE BLUE STRIPES APPLIED TO METAL PIPE. PIPE STRIPED DURING MANUFACTURING OF THE PIPE SHALL HAVE CONTINUOUS STRIPES THAT DIFFERENTIATE DRINKING WATER FROM RECLAIMED OR OTHER WATER. UNDERGROUND PLASTIC PIPE SHALL BE SOLIDWALL BLUE PIPE. 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LEGEND:

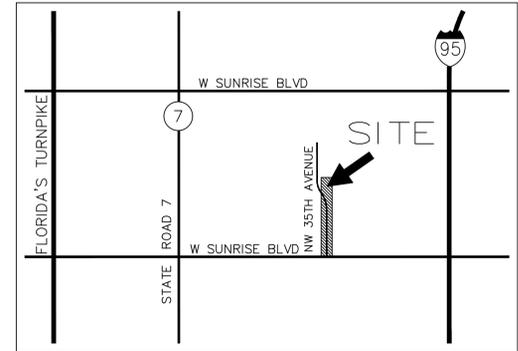
- ⊖ PROPOSED ELEVATION (NAVD)
- ⊕5.32 EXISTING ELEVATION (NAVD)
- ☐ PROPOSED CATCH BASIN
- ⊏ PROPOSED PLUG
- ⊕ TEE
- ⊕ WATER METER
- ⊕ DOUBLE DETECTOR CHECK W/ WAFER CHECK VALVE ON DOWNSTREAM SIDE
- ⊕ REDUCED PRESSURE BACKFLOW PREVENTOR
- ➔ DIRECTIONAL FLOW ARROW AND GRAVITY SEWER
- PROPOSED MANHOLE
- W - WATER MAIN
- FM - SANITARY FORCE MAIN
- ⊕ VALVE
- ⊕ FIRE HYDRANT
- ⊕ SIAMESE CONNECTION
- ⊕ CLEANOUT
- ▬ EDGE OF PROPOSED PAVEMENT (ASPHALT)
- ➔ DIRECTION OF SURFACE DRAINAGE
- ⊕ SAMPLE POINT
- W - EXIST. WATER MAIN
- FM - EXIST. UTILITY LINE TO BE ABANDONED IN PLACE

DEMOLITION LEGEND:

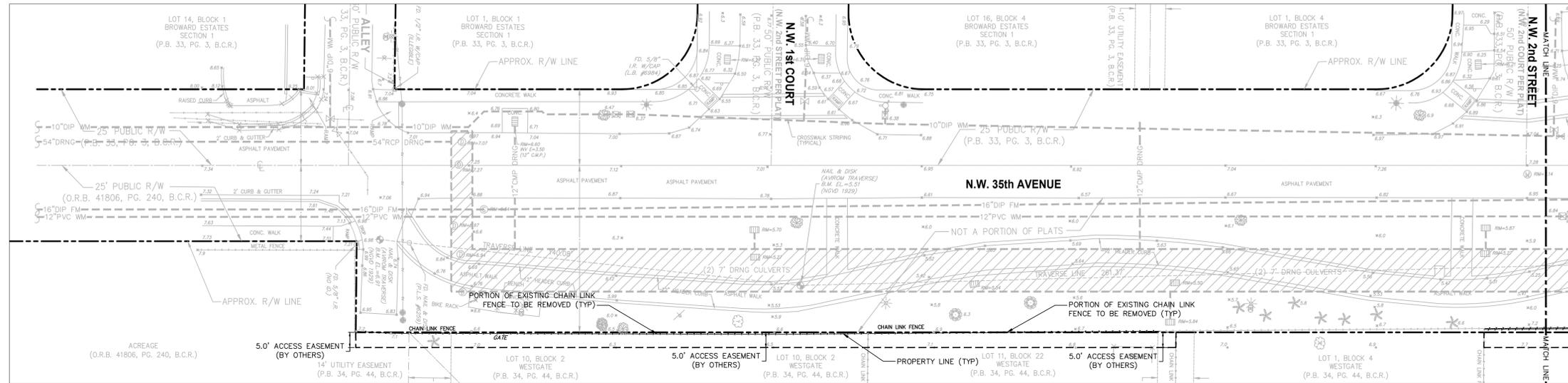
- ▨ PAVEMENT REMOVAL
- ⊗ UTILITY REMOVAL

DEMOLITION NOTES:

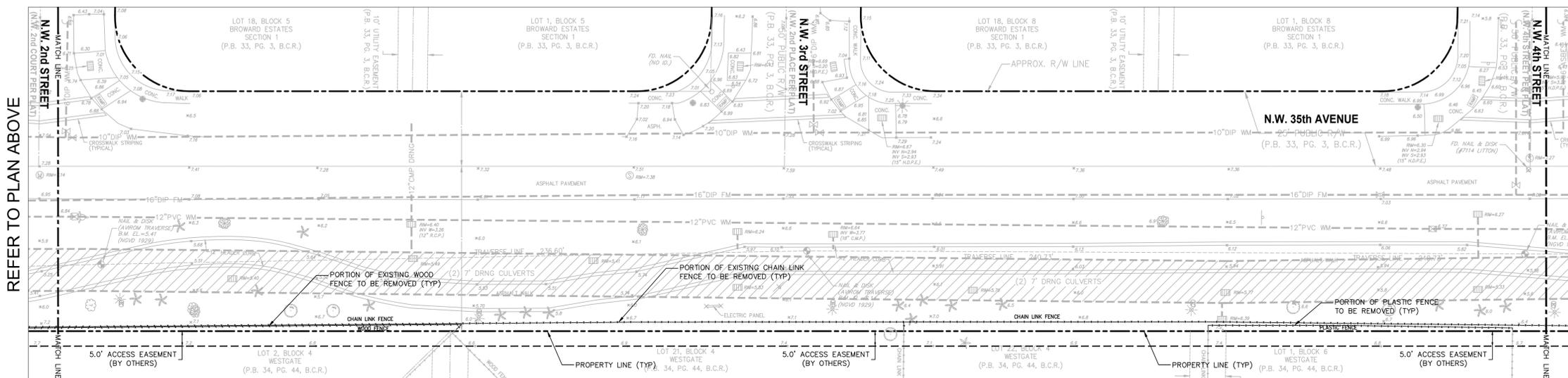
1. CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN TEMPORARY BARRIERS ALONG DEMOLITION AREAS, AND MAINTAIN IN PLACE A F.D.O.T. APPROVED MAINTENANCE OF TRAFFIC PLAN.
2. ALL UTILITY COMPANIES (FP&L, BELL SOUTH, GAS CO., ETC.) SHALL BE NOTIFIED 2 WEEKS PRIOR TO BEGINNING OF DEMOLITION FOR WORK NEAR EXISTING UTILITIES. LOCATES SHALL ALSO BE CALLED IN TO CONFIRM THE LOCATION OF ANY EXISTING UTILITIES.
3. ALL DEMOLITION DEBRIS NOT OTHERWISE NOTED ON THE PLANS OR IN THESE NOTES SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE IN ACCORDANCE WITH THE GOVERNING MUNICIPALITY REQUIREMENTS.



LOCATION MAP
NTS



REFER TO PLAN BELOW



REFER TO PLAN ABOVE

REFER TO SHEET D1.2



VERTICAL DATUM CONVERSION
GRADING SHOWN UTILIZES N.A.V.D. 88

N.G.V.D. 29

N.A.V.D. 88

N.A.V.D. 88 = N.G.V.D. 29 - 1.5'
N.G.V.D. 29 = N.A.V.D. 88 + 1.5'

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DEMOLITION PLAN
Sheet Title

NW 35th AVENUE WALL
Job Title
NW 35th AVENUE
LAUDERHILL, FLORIDA 33311



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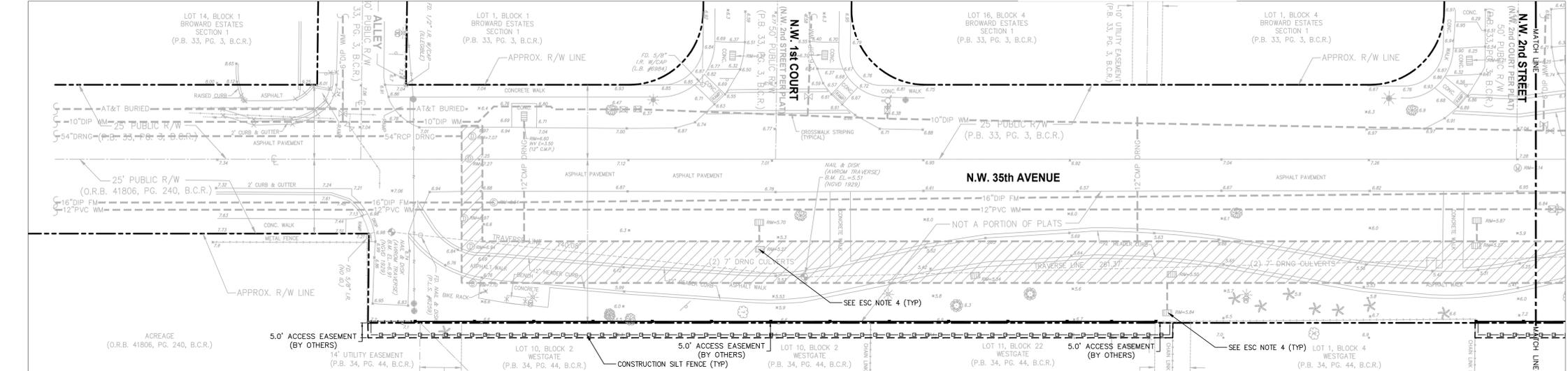
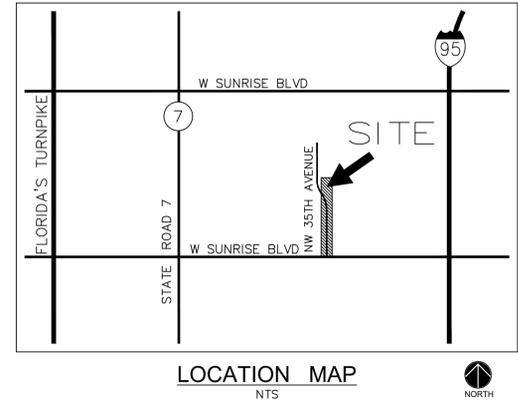
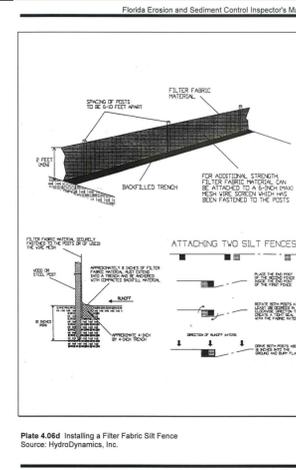
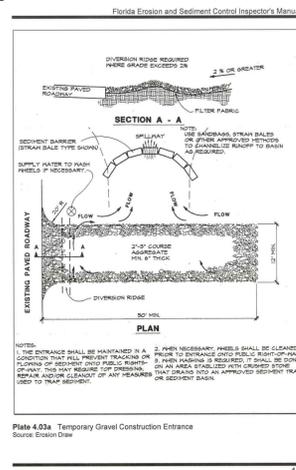
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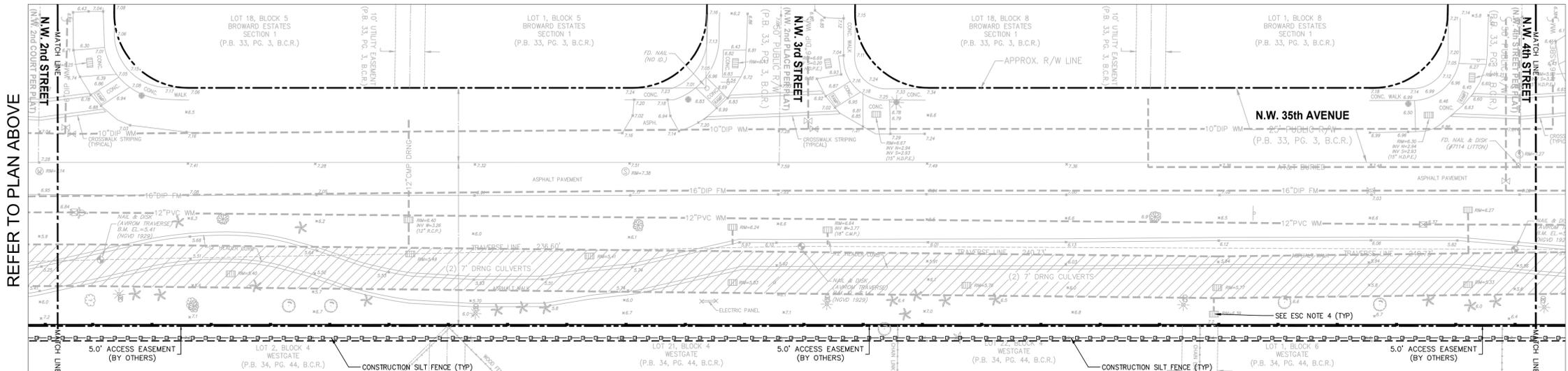
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Job No.	Plot Date
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POLLUTION PREVENTION NOTES:

- CONTRACTOR SHALL ADHERE TO THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) REQUIREMENTS. THE CONTRACTOR SHALL INSTITUTE BEST MANAGEMENT PRACTICES (BMPs) TO ENSURE COMPLIANCE WITH THE NPDES PROGRAM AND TO MINIMIZE THE IMPACT TO PUBLIC STORMWATER FACILITIES. A NOTICE OF INTENT (NOI) SHALL BE FILED PRIOR TO START CONSTRUCTION ACTIVITIES.
- PRIOR TO DEMOLITION ACTIVITIES, CONTRACTOR SHALL INSTALL POLLUTION PREVENTION CONTROL DEVICES (I.E., SILT BARRIERS, SEDIMENT BASINS, TURBIDITY BARRIERS AROUND STORMWATER OUTFALLS ON THE WATERSHED OF LAKES, PONDS, CANALS, OR WATERWAYS, SILT SCREENS, ETC. ACCORDING TO THE APPROVED SWPPP AND AS RECOMMENDED BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP) LATEST GUIDELINES AND PERMITTING REQUIREMENTS.
- PRIOR TO DEMOLITION ACTIVITIES, A SILT FENCE IN ACCORDANCE WITH THE APPROVED SWPPP DETAILS AND LATEST DEP STANDARDS SHALL BE ERECTED AROUND THE SITE PROPERTY LINES. ALL PUBLIC INLETS SURROUNDING THE SITE SHALL BE PROTECTED BY THE INSTALLATION OF FILTER FABRIC INTO THE FRAME AND GRATE OR OTHER APPROVED BMPs TO PROTECT AGAINST STORM RUNOFF.
- POLLUTION CONTROL INSTALLATIONS, AS APPROVED AND SHOWN IN THE SWPPP, SHALL BE MAINTAINED THROUGHOUT DEMOLITION AND CONSTRUCTION PERIODS UNTIL THE PROJECT HAS BEEN COMPLETED AND APPROVED BY CITY ENGINEERING INSPECTOR OR PROJECT ENGINEER.
- CONTRACTOR SHALL INSPECT THE POLLUTION CONTROL DEVICES DAILY FOR SIGNS OF MALFUNCTION, FAILURE, OR NEEDED REPAIRS, AND SHALL MAKE REMEDIAL ACTIONS IMMEDIATELY UPON DISCOVERY.
- EXISTING STORMWATER INLETS, CATCH BASINS, OR MANHOLES, ONSITE AND OFFSITE, SHALL BE PROTECTED FROM SEDIMENT STORM RUNOFF FROM THE PROPOSED DEMOLITIONS AND CONSTRUCTION ACTIVITIES.
- CONTRACTOR SHALL IMMEDIATELY REMOVE ALL MUD, DIRT, OR OTHER MATERIALS TRACKED OR SPILLED ONTO EXISTING ROADS AND FACILITIES DUE TO DEMOLITION OR CONSTRUCTION ACTIVITIES FROM THE PROPOSED DEVELOPMENT.
- IN ORDER TO MINIMIZE THE AMOUNT OF SEDIMENTS, MUD, AND DUST TRANSPORTED ONTO PUBLIC ROADWAYS BY THE CONSTRUCTION VEHICLES OR RUNOFF, THE CONTRACTOR SHALL INSTALL STABILIZED TEMPORARY CONSTRUCTION ENTRANCE(S) FROM THE CONSTRUCTION SITE AS RECOMMENDED BY FDEP. EACH TEMPORAL CONSTRUCTION ENTRANCE IS A STABILIZED 6 INCH THICK LAYER OF 2 TO 3 INCH COURSE AGGREGATE STONE, 12" MINIMUM WIDTH, AND LENGTH TO ACCOMMODATE A MINIMUM OF ONE TRUCKING VEHICLE.
 - THE ENTRANCE SHALL BE MAINTAINED PERIODICALLY AS CONDITIONS DEMAND IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENTS ONTO PUBLIC RIGHTS-OF-WAY. SEDIMENT SHALL BE TRAPPED IN CLEANOUT AREAS AND PROPERLY HANDLED AS ONSITE DEBRIS PER APPLICABLE STATE REGULATIONS.
 - WHEN NECESSARY, VEHICLE WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
 - ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO PUBLIC STORM DRAINS MUST BE REMOVED BY THE CONTRACTOR IMMEDIATELY.
 - TRUCKS SHALL NOT "CUT CORNERS" WHERE THE CONSTRUCTION EXIT MEETS THE ROADWAYS.
 - SWEEPING OF PUBLIC ROADWAYS SHALL BE DONE PERIODICALLY AS CONDITION DEMAND.
 - DUST GENERATED FROM CONSTRUCTION SHALL BE MINIMIZED BY DAILY WATERING OF THE SITE.
- CONTRACTOR SHALL PROVIDE AN EROSION AND SEDIMENTATION CONTROL INSPECTOR TO INSPECT ALL POINTS OF DISCHARGE INTO NEARBY WATER BODIES TO RECORD THE CONDITION OF DISCHARGE POINTS, INTEGRITY OF SILT FENCE AND POLLUTION CONTROL DEVICES, DUST CONTROL MEASURES, VEHICULAR TRAFFIC AND CONSTRUCTION MATERIAL STORAGE AND DISPOSAL. WRITTEN RECORD OF ALL INSPECTIONS SHALL BE STORED BY THE CONTRACTOR DURING DEMOLITION AND CONSTRUCTION PERIODS AND SHALL BE SUBMITTED TO CITY INSPECTORS UPON REQUEST. THE INSPECTION REPORT SHALL INCLUDE AT A MINIMUM THE FOLLOWING INFORMATION:
 - NAME OF INSPECTOR AND HIS/HER QUALIFICATIONS IN EROSION AND SEDIMENTATION CONTROL
 - DATE OF THE INSPECTION
 - RAINFALL RATE
 - OBSERVATIONS ABOUT THE SWPP
 - ACTIONS TAKEN BY CONTRACTOR FOR ALL INCIDENTS OF NONCOMPLIANCE WITH PERMIT(S)
 - CERTIFICATION THAT THE FACILITY IS IN COMPLIANCE WITH THE SWPP AND PERMIT(S)



REFER TO PLAN BELOW



- CLOSED CIRCUIT TV INSPECTION (CCTV) NOTES:**
- CONTRACTOR SHALL PROVIDE CCTV VIDEOTAPES TO CITY STW OPS OF THE EXISTING STORMWATER SYSTEM TO THE LIMITS SHOWN WITH GREEN LINE WORK IN THE STORM MAP PROVIDED AT THE END OF THIS REPORT IN ORDER TO DOCUMENT THE PRE AND POST CONSTRUCTION CONDITIONS OF THE CITY'S STORM SYSTEM.
 - CONTRACTOR SHALL PROVIDE THE PRE CONSTRUCTION CCTV TO CITY STW OPS WHEN APPLYING FOR A DEMOLITION PERMIT AT THE CITY'S BUILDING DEPARTMENT.
 - IF DEBRIS IS FOUND IN THE CITY'S STORMWATER SYSTEM PRIOR TO DEMOLITION OR CONSTRUCTION, THE APPLICANT, CONTRACTOR, DEVELOPER OR DESIGNER (AS APPLICABLE) SHALL INFORM THE CITY'S STORMWATER OPERATIONS DEPARTMENT FOR PROPER REMOVAL.
 - CONTRACTOR SHALL PROVIDE THE POST CONSTRUCTION VIDEOTAPE TO CITY STW OPS WHEN REQUESTING THE CERTIFICATE OF OCCUPANCY (CO) TO VERIFY THAT THE CITY'S STORMWATER SYSTEMS HAVE NOT BEEN NEGATIVELY IMPACTED BY THE DEMOLITION AND CONSTRUCTION ACTIVITIES.
 - IF DEBRIS IS FOUND IN THE CITY'S STORM SYSTEMS AS A RESULT OF DEMOLITION OR CONSTRUCTION ACTIVITIES, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VACUUM CLEAN THE CITY'S STORMWATER SYSTEM (OR MAKE REPAIRS AS REQUESTED BY CITY'S STORMWATER OPERATIONS GROUP) PRIOR TO ISSUANCE OF FINAL CO.
 - IF SURFACE WATER RUNOFF OR DEBRIS FROM DEMOLITION OR CONSTRUCTION ACTIVITIES IS FOUND TO HAVE NEGATIVELY IMPACTED THE CONDITION OF THE CITY'S STORMWATER ASSETS, IT WILL BE THE RESPONSIBILITY OF THE APPLICANT (CONTRACTOR, DEVELOPER, AND OWNER) TO RECTIFY THE INFRACTION(S) AS REQUESTED BY CITY.

- ESC NOTES:**
- THIS PLAN REFLECTS THE ENGINEER'S SUGGESTION FOR EROSION AND SEDIMENT CONTROL. SITE OPERATOR TO MODIFY PLAN AS NEEDED TO MAINTAIN "BEST MANAGEMENT PRACTICES" DURING CONSTRUCTION.
 - AT ALL TIMES DURING CONSTRUCTION, ALL STORMWATER MUST REMAIN ONSITE. NO DISCHARGE INTO THE PUBLIC RIGHT OF WAY OR ADJOINING PROPERTIES IS ALLOWED.
 - DRAINAGE STRUCTURES INSTALLED TO BE PROTECTED WITH FILTER FABRIC AND/OR PERIMETER SILT FENCE.
 - PROVIDE FILTER FABRIC OR OTHER METHOD OF SEDIMENT PROTECTION FOR ANY EXISTING CATCH BASIN/INLET WITHIN 100 FEET OF THE PROJECT AREA.
 - ANY SEDIMENT THAT IS TRACKED ONTO ROADS MUST BE SWEEPED UP IMMEDIATELY.
 - SEDIMENT SHALL NOT BE REMOVED BY WASHING/FLUSHING WITH WATER AT THE RIGHT OF WAY.
 - PRIOR TO START OF CONSTRUCTION, AN ENGINEERING ROUGH INSPECTION MUST BE SCHEDULED TO VERIFY EROSION AND SEDIMENTATION CONTROL IS SETUP PROPERLY AND SO INSPECTOR CAN MONITOR SITE FOR CONSTRUCTION MITIGATION. TO REQUEST AN INSPECTION, PLEASE CALL (954) 828-5191.

NPDES

ALL PROJECTS THAT WILL RESULT IN THE DISTURBANCE OF 1 OR MORE ACRES OF LAND CONTRACTORS ARE REQUIRED TO SUBMIT A STORM WATER NOTICE OF INTENT (DEP FORM 62-621.300(4)(b)) 48 HOURS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION TO THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION, NPDES STORMWATER PROGRAM, 2600 BLAIR STONE ROAD, MAIL STATION 2510, TALLAHASSEE, FL 32399-2400. ADDITIONAL DETAILS ARE AVAILABLE AT WWW.DEP.STATE.FL.US/WATER/STORMWATER/NPDES

CALL 48 HOURS BEFORE YOU DIG IN FLORIDA

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SUNSHINE STATE ONE CALL OF FLORIDA, INC.

VERTICAL DATUM CONVERSION

GRADING SHOWN UTILIZES N.A.V.D. 88

N.G.V.D. 29

N.A.V.D. 88

N.A.V.D. 88 = N.G.V.D. 29 - 1.5'
N.G.V.D. 29 = N.A.V.D. 88 + 1.5'

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Sheet Title
EROSION & SEDIMENT CONTROL PLAN

Job Title
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NW 35th AVENUE
LAUDERHILL, FLORIDA 33311

NORTH

Revisions

Phase:
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DOCUMENTS

SEAL

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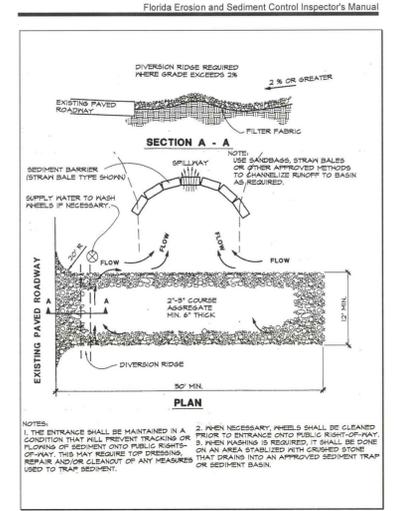
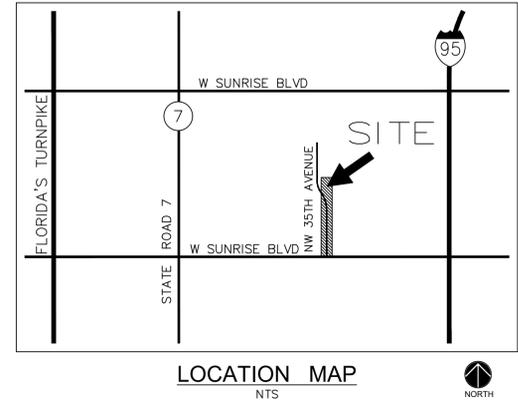
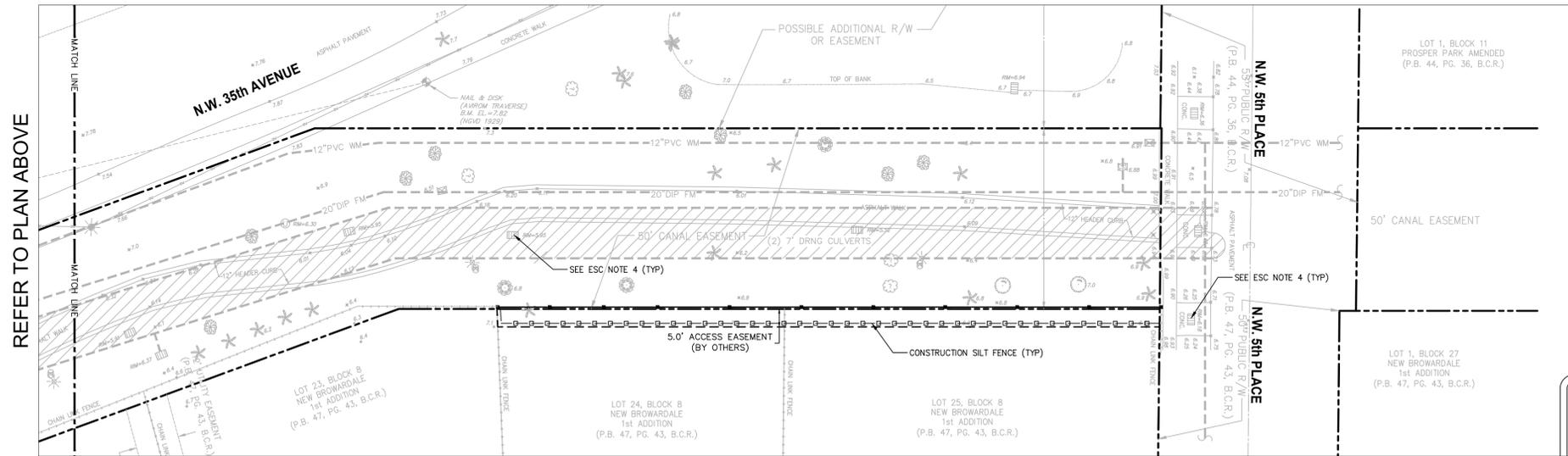
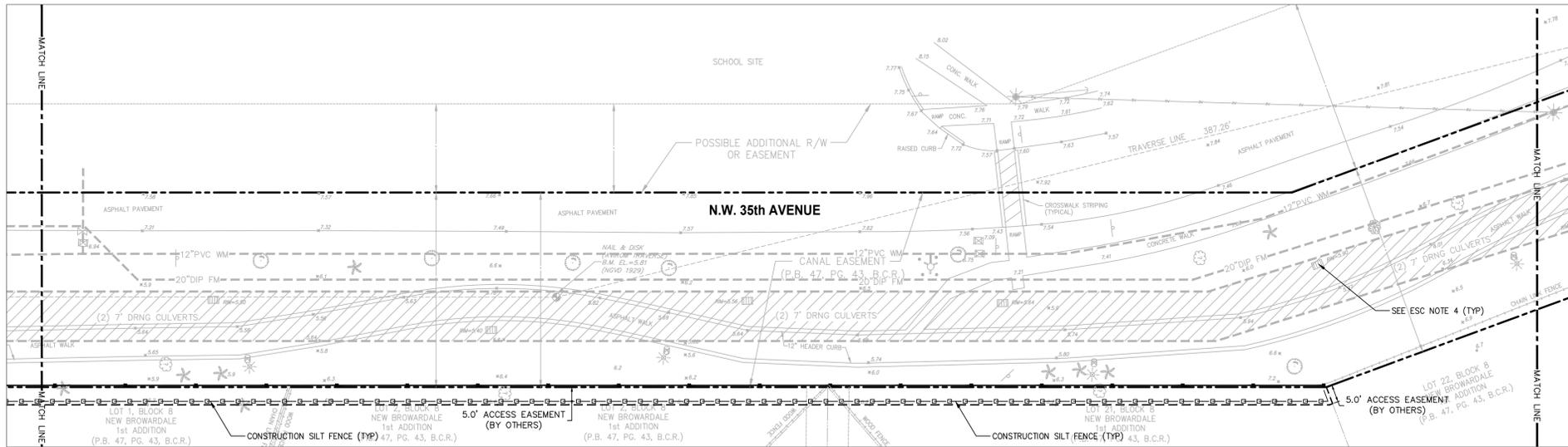
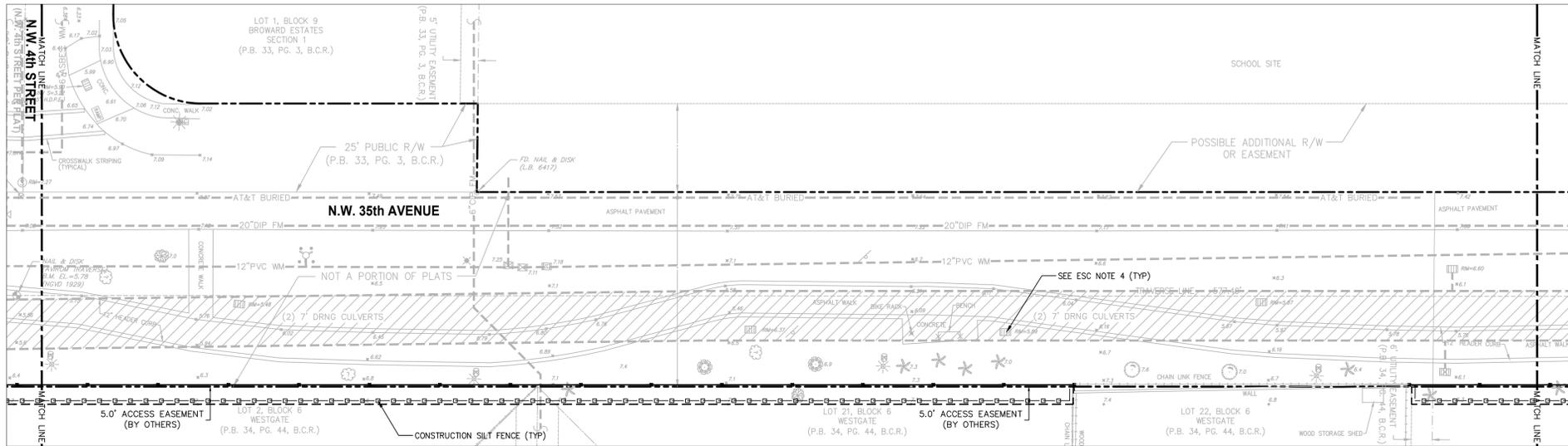


Plate 4.03a Temporary Gravel Construction Entrance
Source: Erosion Draw

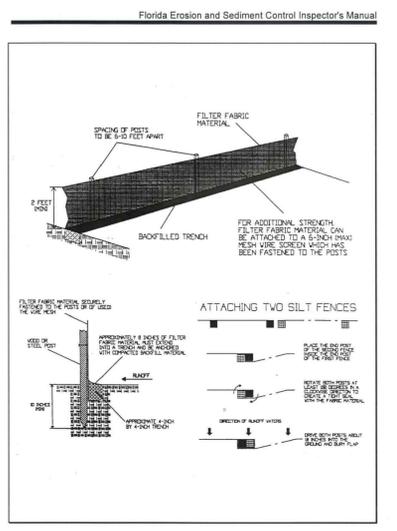


Plate 4.06d Installing a Filter Fabric Silt Fence
Source: HydroDynamics, Inc.

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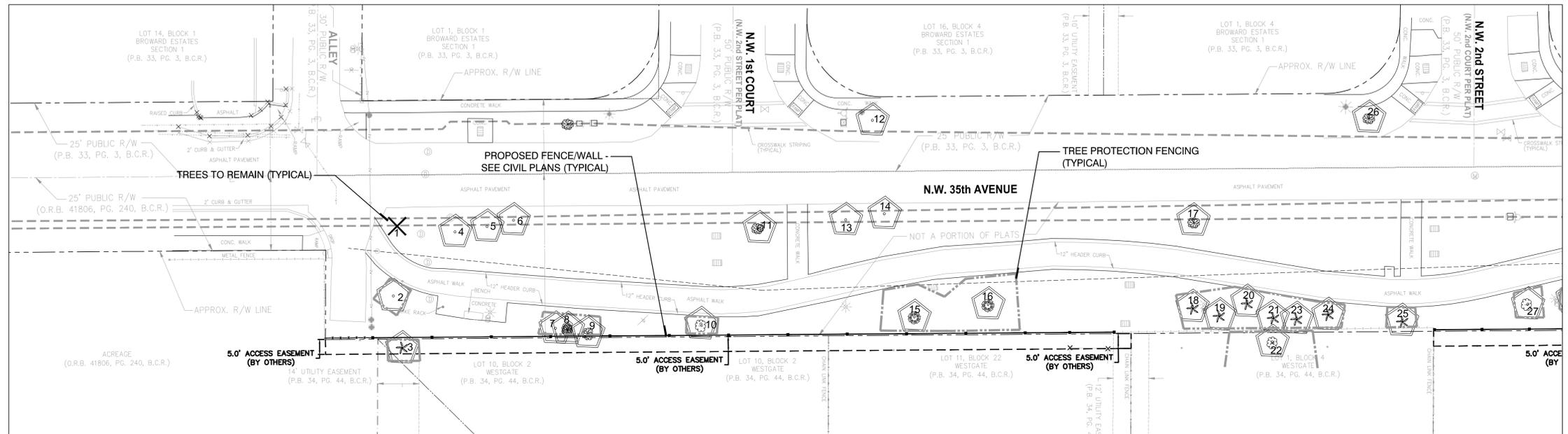
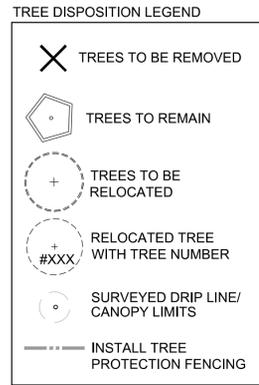
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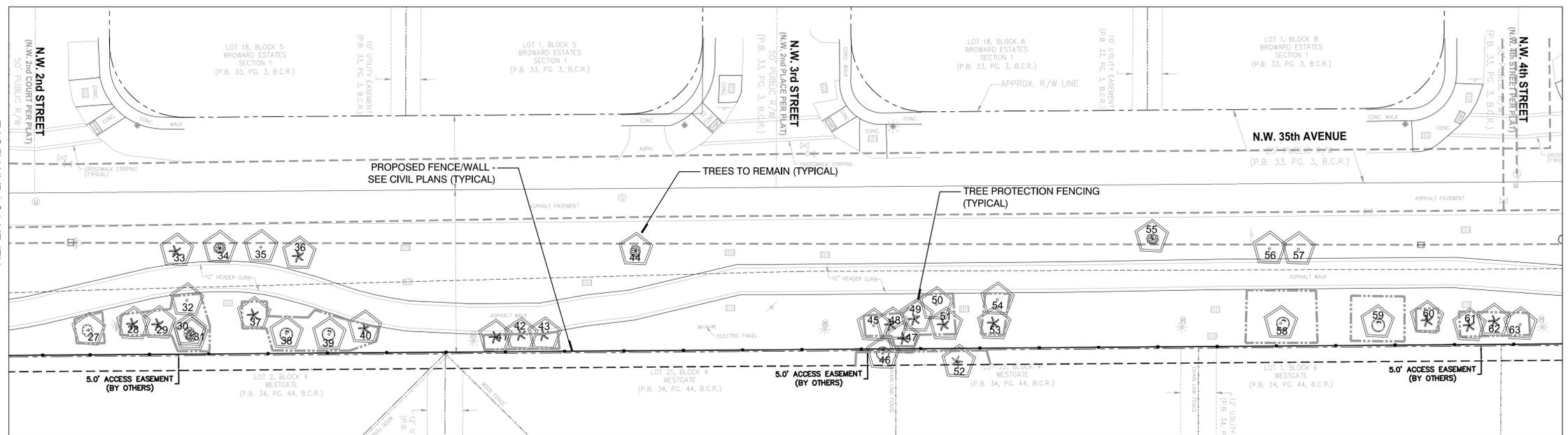
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Appr. by	8 of 8
BMK	

TREE #	COMMON NAME	BOTANICAL NAME	HEIGHT (FT)	WIDTH (FT)	DBH (IN)	CLEAR TRUNK (FT)	HEALTH CONDITION	HEALTH CONDITION %	RELOCATION CANDIDATE (Y/N)	ARBORIST'S OBSERVATIONS	PROPOSED DISPOSITION (AS PER LANDSCAPE ARCHITECT)
1	Bulnesia	<i>Bulnesia arborea</i>	11	6	4		Poor	40%	N	Canopy dieback, large trunk wound	REMOVE
2	Gumbo Limbo	<i>Bursera simaruba</i>	14	8	7		Good	65%	Y		RE MAIN
3	Sabal Palm	<i>Sabal palmetto</i>	24	8	13	20	Fair	58%	Y	Large umbrella tree parasite	RE MAIN
4	Sabal Palm	<i>Sabal palmetto</i>	20	6	14	16	Good	62%	Y	Recently installed	RE MAIN
5	Pigeon Plum	<i>Coccoloba diversifolia</i>	9	6	4		Fair	59%	Y	Trunk lean, buried root collar	RE MAIN
6	Mahogany	<i>Swietenia mahagoni</i>	22	22	11		Good	65%	Y	Poor structure, buried root collar	RE MAIN
7	Gumbo Limbo	<i>Bursera simaruba</i>	15	10	16		Fair	50%	N	Poor structure, trunk engulfed chain link fence	RE MAIN
8	Gumbo Limbo	<i>Bursera simaruba</i>	20	8	8		Fair	54%	N	Poor structure	RE MAIN
9	Gumbo Limbo	<i>Bursera simaruba</i>	19	8	7		Good	65%	Y		RE MAIN
10	Golden Trumpet	<i>Tabebuia caribbea</i>	14	6	7		Poor	40%	N	Severe trunk lean, canopy crowding	RE MAIN
11	Gumbo Limbo	<i>Bursera simaruba</i>	26	25	14		Good	65%	Y	Poor structure, confined root space	RE MAIN
12	Gumbo Limbo	<i>Bursera simaruba</i>	23	26	15		Good	65%	N	Poor structure, under utility lines, confined root space, insufficient root ball for relocation	RE MAIN
13	Bulnesia	<i>Bulnesia arborea</i>	13	6	3		Good	65%	Y		RE MAIN
14	Bulnesia	<i>Bulnesia arborea</i>	13	6	4		Good	70%	Y		RE MAIN
15	Mahogany	<i>Swietenia mahagoni</i>	26	23	12		Good	63%	Y	Poor structure, deadwood, trunk lean	RE MAIN
16	Mahogany	<i>Swietenia mahagoni</i>	25	24	11		Good	67%	Y	Poor structure, previously relocated	RE MAIN
17	Gumbo Limbo	<i>Bursera simaruba</i>	18	19	10		Good	65%	Y	Poor structure, minor storm damage	RE MAIN
18	Sabal Palm	<i>Sabal palmetto</i>	24	8	11	20	Good	65%	Y		RE MAIN
19	Sabal Palm	<i>Sabal palmetto</i>	26	8	13	22	Good	65%	Y		RE MAIN
20	Sabal Palm	<i>Sabal palmetto</i>	24	8	12	20	Good	65%	Y		RE MAIN
21	Sabal Palm	<i>Sabal palmetto</i>	22	8	13	18	Good	65%	Y		RE MAIN
22	Mango	<i>Mangifera indica</i>	31	30	24*		Fair	57%	N	Poor structure, trunk lean * dbh estimate private property tree	RE MAIN
23	Sabal Palm	<i>Sabal palmetto</i>	27	8	10	23	Good	65%	Y		RE MAIN
24	Sabal Palm	<i>Sabal palmetto</i>	27	8	10	23	Good	65%	Y		RE MAIN
25	Sabal Palm	<i>Sabal palmetto</i>	26	8	14	22	Good	65%	Y		RE MAIN
26	Gumbo Limbo	<i>Bursera simaruba</i>	25	28	19		Fair	47%	N	Poor structure, trunk cavity, under power lines, confined root space	RE MAIN
27	Pigeon Plum	<i>Coccoloba diversifolia</i>	14	9	5		Good	65%	Y		RE MAIN
28	Sabal Palm	<i>Sabal palmetto</i>	24	8	11	20	Good	65%	Y		RE MAIN
29	Sabal Palm	<i>Sabal palmetto</i>	24	8	12	20	Good	65%	Y		RE MAIN
30	Pigeon Plum	<i>Coccoloba diversifolia</i>	13	7	4		Fair	55%	N	Canopy crowding, poor structure, commingled root zone	RE MAIN
31	Gumbo Limbo	<i>Bursera simaruba</i>	22	13	8		Fair	55%	N	Poor structure, commingled root zone	RE MAIN
32	Jamaica Dogwood	<i>Piccadia piscipula</i>	13	7	4		Fair	51%	N	Poor structure, chlorotic foliage, buried root collar	RE MAIN
33	Sabal Palm	<i>Sabal palmetto</i>	23	8	13	19	Good	65%	Y		RE MAIN
34	Gumbo Limbo	<i>Bursera simaruba</i>	21	27	13		Good	67%	Y	Poor structure	RE MAIN
35	Pigeon Plum	<i>Coccoloba diversifolia</i>	8	5	4		Fair	52%	Y	Trunk lean	RE MAIN
36	Sabal Palm	<i>Sabal palmetto</i>	26	8	15	22	Good	65%	Y		RE MAIN
37	Sabal Palm	<i>Sabal palmetto</i>	22	8	11		Good	65%	Y		RE MAIN
38	Live Oak	<i>Quercus virginiana</i>	22	12	9		Fair	49%	N	Poor structure, canopy crowding, deadwood	RE MAIN
39	Live Oak	<i>Quercus virginiana</i>	22	18	16		Fair	48%	N	Poor structure, canopy crowding, deadwood	RE MAIN
40	Sabal Palm	<i>Sabal palmetto</i>	21	8	14	17	Good	65%	Y		RE MAIN
41	Sabal Palm	<i>Sabal palmetto</i>	23	8	11	19	Good	65%	Y		RE MAIN
42	Sabal Palm	<i>Sabal palmetto</i>	29	8	13	25	Good	65%	Y		RE MAIN
43	Sabal Palm	<i>Sabal palmetto</i>	25	8	14	21	Good	65%	Y		RE MAIN
44	Gumbo Limbo	<i>Bursera simaruba</i>	17	20	13		Good	67%	Y	Poor structure	RE MAIN
45	Sabal Palm	<i>Sabal palmetto</i>	26	8	11	22	Good	65%	Y		RE MAIN
46	Laurel Oak	<i>Quercus laurifolia</i>	29	19	14*		Fair	47%	N	Poor structure, trunk lean, unbalanced crown, * dbh estimate private property	RE MAIN
47	Sabal Palm	<i>Sabal palmetto</i>	24	8	9*	20	Fair	54%	N	Canopy crowding, trunk lean, * dbh estimate private property	RE MAIN
48	Sabal Palm	<i>Sabal palmetto</i>	23	8	11	19	Good	65%	Y		RE MAIN
49	Sabal Palm	<i>Sabal palmetto</i>	29	8	11	25	Good	65%	Y		RE MAIN
50	Pigeon Plum	<i>Coccoloba diversifolia</i>	15	6	4		Fair	54%	N	Canopy dieback	RE MAIN
51	Sabal Palm	<i>Sabal palmetto</i>	29	8	11	25	Good	65%	Y		RE MAIN
52	Mango	<i>Mangifera indica</i>	23	22	18*		Fair	50%	N	Poor structure, canopy crowding, canopy dieback, deadwood, * dbh estimate private property	RE MAIN
53	Sabal Palm	<i>Sabal palmetto</i>	20	8	11	15	Good	65%	Y		RE MAIN
54	Pigeon Plum	<i>Coccoloba diversifolia</i>	14	8	4		Fair	59%	Y	Canopy crowding	RE MAIN
55	Gumbo Limbo	<i>Bursera simaruba</i>	18	16	11		Good	65%	Y	Poor structure	RE MAIN
56	Sabal Palm	<i>Sabal palmetto</i>	23	8	14	19	Good	65%	Y		RE MAIN
57	Sabal Palm	<i>Sabal palmetto</i>	23	8	13	19	Good	65%	Y		RE MAIN
58	Live Oak	<i>Quercus virginiana</i>	29	28	13		Fair	53%	N	Poor structure, canopy dieback, deadwood	RE MAIN
59	Live Oak	<i>Quercus virginiana</i>	27	20	12		Fair	58%	N	Poor structure, confined root space, insufficient root ball for relocation	RE MAIN
60	Sabal Palm	<i>Sabal palmetto</i>	22	8	14	16	Good	65%	Y		RE MAIN
61	Sabal Palm	<i>Sabal palmetto</i>	24	8	13	20	Good	65%	Y		RE MAIN
62	Sabal Palm	<i>Sabal palmetto</i>	23	8	12	19	Good	65%	Y		RE MAIN
63	Pigeon Plum	<i>Coccoloba diversifolia</i>	15	6	4		Good	63%	Y	Trunk lean	RE MAIN
64	Jamaica Dogwood	<i>Piccadia piscipula</i>	23	17	8		Fair	53%	N	Poor structure, trunk lean	RE MAIN
65	Gumbo Limbo	<i>Bursera simaruba</i>	24	24	13		Good	65%	Y	Poor structure, confined root space	RE MAIN
66	Jamaica Dogwood	<i>Piccadia piscipula</i>	22	16	7		Fair	52%	N	Poor structure, trunk lean	RE MAIN
67	Pigeon Plum	<i>Coccoloba diversifolia</i>	26	14	9		Good	67%	Y		RE MAIN
68	Mahogany	<i>Swietenia mahagoni</i>	31	22	15		Fair	52%	N	Poor structure, canopy crowding, deadwood, storm damage	RE MAIN
69	Jamaica Dogwood	<i>Piccadia piscipula</i>	33	10	7		Fair	51%	N	Canopy dieback, poor vigor	RE MAIN
70	Gumbo Limbo	<i>Bursera simaruba</i>	25	23	17*		Fair	54%	N	Canopy crowding, water sprouts, * dbh estimate private property	RE MAIN
71	Mahogany	<i>Swietenia mahagoni</i>	29	20	13		Fair	52%	N	Poor structure, canopy dieback, deadwood, canopy crowding	RE MAIN
72	Pigeon Plum	<i>Coccoloba diversifolia</i>	12	6	4		Good	65%	Y		RE MAIN
73	Sabal Palm	<i>Sabal palmetto</i>	24	8	11	20	Good	65%	Y		RE MAIN
74	Pigeon Plum	<i>Coccoloba diversifolia</i>	16	9	4		Good	65%	Y		RE MAIN
75	Sabal Palm	<i>Sabal palmetto</i>	19	8	11	15	Good	65%	Y		RE MAIN

TREE #	COMMON NAME	BOTANICAL NAME	HEIGHT (FT)	WIDTH (FT)	DBH (IN)	CLEAR TRUNK (FT)	HEALTH CONDITION	HEALTH CONDITION %	RELOCATION CANDIDATE (Y/N)	ARBORIST'S OBSERVATIONS	PROPOSED DISPOSITION (AS PER LANDSCAPE ARCHITECT)
76	Sabal Palm	<i>Sabal palmetto</i>	25	8	13	21	Good	65%	Y		RE MAIN
77	Sabal Palm	<i>Sabal palmetto</i>	19	8	11	15	Good	65%	Y		RE MAIN
78	Pigeon Plum	<i>Coccoloba diversifolia</i>	21	8	4		Good	65%	Y		RE MAIN
79	Live Oak	<i>Quercus virginiana</i>	24	40	22		Fair	58%	N	Poor structure, canopy dieback, confined root space, insufficient root ball for relocation	RE MAIN
80	Live Oak	<i>Quercus virginiana</i>	19	21	10		Fair	53%	N	Poor structure, canopy crowding, canopy dieback	RE MAIN
81	Sabal Palm	<i>Sabal palmetto</i>	26	8	15	22	Good	65%	Y	Ficus parasite	RE MAIN
82	Sabal Palm	<i>Sabal palmetto</i>	24	8	13*	20	Good	65%	Y	* dbh estimate private property	RE MAIN
83	Sabal Palm	<i>Sabal palmetto</i>	24	8	13*	20	Good	65%	Y	* dbh estimate private property	RE MAIN
84	Carrotwood	<i>Cuscutia anacardioides</i>	25	20	10		Fair	52%	N	Florida Invasive Species Council Category I Invasive	REMOVE (INVASIVE)
85	Sabal Palm	<i>Sabal palmetto</i>	25	8	12	21	Good	65%	Y		RE MAIN
86	Sabal Palm	<i>Sabal palmetto</i>	18	8	10	14	Good	65%	Y		RE MAIN
87	Sabal Palm	<i>Sabal palmetto</i>	19	8	12*	15	Fair	53%	N	Canopy crowding, * dbh estimate private property	RE MAIN
88	Live Oak	<i>Quercus virginiana</i>	20	23	8		Good	70%	Y		RE MAIN
89	Sweet Bay Magnolia	<i>Magnolia virginiana</i>	15	5	4		Good	64%	Y		RE MAIN
90	Sabal Palm	<i>Sabal palmetto</i>	18	8	11	14	Good	65%	Y		RE MAIN
91	Live Oak	<i>Quercus virginiana</i>	23	13	7		Good	70%	Y		RE MAIN
92	Avocado	<i>Persea americana</i>	23	13	6*		Fair	52%	N	Poor structure, canopy dieback, * dbh estimate private property	RE MAIN
93	Live Oak	<i>Quercus virginiana</i>	24	18	8		Good	70%	Y		RE MAIN
94	Live Oak	<i>Quercus virginiana</i>	22	18	8		Good	70%	Y		RE MAIN
95	Live Oak	<i>Quercus virginiana</i>	21	18	9		Good	70%	Y		RE MAIN
96	Live Oak	<i>Quercus virginiana</i>	22	18	8		Fair	60%	Y	Trunk wounds from vehicle strikes	RE MAIN
97	Sabal Palm	<i>Sabal palmetto</i>	24	8	11	20	Good	65%	Y		RE MAIN
98	Sabal Palm	<i>Sabal palmetto</i>	24	8	11	20	Good	65%	Y		RE MAIN
99	Sabal Palm	<i>Sabal palmetto</i>	24	8	14	20	Good	65%	Y		RE MAIN
100	Brazilian Pepper	<i>Schinus terebinthifolia</i>	30	44	35*		Fair	47%	N	Florida Invasive Species Council Category I Invasive, *dbh estimate private property	REMOVE (INVASIVE)
101	Jamaica Dogwood	<i>Piccadia piscipula</i>	20	16	7		Fair	46%	N	Poor structure, trunk lean, visual evidence of decay	RE MAIN
102	Sabal Palm	<i>Sabal palmetto</i>	21	8	11	17	Good	65%	Y		RE MAIN
103	Live Oak	<i>Quercus virginiana</i>	35	43	25		Fair	55%	N	Poor structure, canopy dieback, deadwood, confined root space	RE MAIN
104	Gumbo Limbo	<i>Bursera simaruba</i>	21	16	9		Good	64%	Y	Poor structure	RE MAIN
105	Pigeon Plum	<i>Coccoloba diversifolia</i>	10	7	4		Fair	52%	N	Large trunk wound	RE MAIN
106	Jamaica Dogwood	<i>Piccadia piscipula</i>	22	23	11		Good	64%	Y	Poor structure	RE MAIN
107	Pigeon Plum	<i>Coccoloba diversifolia</i>	15	6	4		Good	64%	Y		RE MAIN
108	Orange Geiger	<i>Cordia sebestena</i>	15	5	3		Good	65%	Y		RE MAIN
109	Sabal Palm	<i>Sabal palmetto</i>	27	8	14	23	Good	65%	Y		RE MAIN
110	Gumbo Limbo	<i>Bursera simaruba</i>	25	23	11		Fair	58%	Y	Trunk lean, unbalanced crown	RE MAIN
111	Sabal Palm	<i>Sabal palmetto</i>	27	8	11	23	Good	65%	Y		RE MAIN
112	Sabal Palm	<i>Sabal palmetto</i>	27	8	10	23	Good	65%	Y		RE MAIN
113	Sabal Palm	<i>Sabal palmetto</i>	27	8	11	23	Good	65%	Y		RE MAIN
114	Sabal Palm	<i>Sabal palmetto</i>	21	8	11	17	Good	65%	Y		RE MAIN
115	Gumbo Limbo	<i>Bursera simaruba</i>	19	20	10		Good	70%	Y		RE MAIN
116	Gumbo Limbo	<i>Bursera simaruba</i>	22	20	10		Good	70%	Y		RE MAIN
117	Gumbo Limbo	<i>Bursera simaruba</i>	21	23	10		Good	70%	Y		RE MAIN
118	Pigeon Plum	<i>Coccoloba diversifolia</i>	13	6	4		Good	62%	Y	Minor canopy dieback	RE MAIN
119	Mahogany	<i>Swietenia mahagoni</i>	28	22	15		Good	64%	Y	Poor structure, canopy dieback	RE MAIN
120	Sabal Palm	<i>Sabal palmetto</i>	18	8	9*	14	Good	65%	Y	*dbh estimate private property	RELOCATE
121	Mahogany	<i>Swietenia mahagoni</i>	22	18	11		Good	64%	Y	Trunk lean	RE MAIN
122	Sabal Palm	<i>Sabal palmetto</i>	20	8	13	16	Good	65%	Y		RE MAIN
123	Pigeon Plum	<i>Coccoloba diversifolia</i>	14	7	4		Fair	59%	Y	Canopy dieback	RE MAIN
124	Jamaica Dogwood	<i>Piccadia piscipula</i>	18	15	8		Fair	59%	Y	Poor structure, flush cuts	RE MAIN
125	Ponytail Palm	<i>Beaucarnea recurvata</i>	13	5	17	8	Fair	54%	N	Nutrient deficiencies	RE MAIN
126	Bulnesia	<i>Bulnesia arborea</i>	17	12	4		Good	70%	Y		RE MAIN
127	Pigeon Plum	<i>Coccoloba diversifolia</i>	8	5	3		Fair	46%	N	Canopy dieback, trunk wound	RE MAIN
128	Coconut Palm	<i>Cocos nucifera</i>	25	16	8	18	Good	65%	Y		RE MAIN
129	Gumbo Limbo	<i>Bursera simaruba</i>	20	15	6		Good	70%	Y	Poor structure	RE MAIN
130	Gumbo Limbo	<i>Bursera simaruba</i> </									



REFER TO PLAN ABOVE



REFER TO PLAN BELOW

REFER TO SHEET LA-PL2

NW 35TH AVENUE WALL
 NW 35TH AVENUE
 LAUDERHILL, FLORIDA 33311

TREE DISPOSITION PLAN

DATE: 8/4/2023
 PROJECT #: 2315
 DRAWN BY: HP
 CHECKED BY: FH
 SCALE: INDICATED

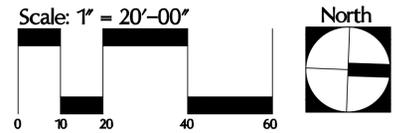
REVISIONS:

NO.	DESCRIPTION

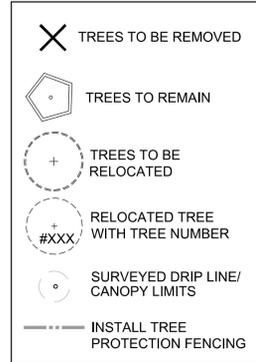
SEAL:
 Designated by:
 John Hurligan
 P.E., C.E.S., F.S.A., N.C.
 000000017E747998
 000000017E747998
 Date: 2023.08.04
 1746257-44107



SHEET NUMBER:
LAPL-1



TREE DISPOSITION LEGEND

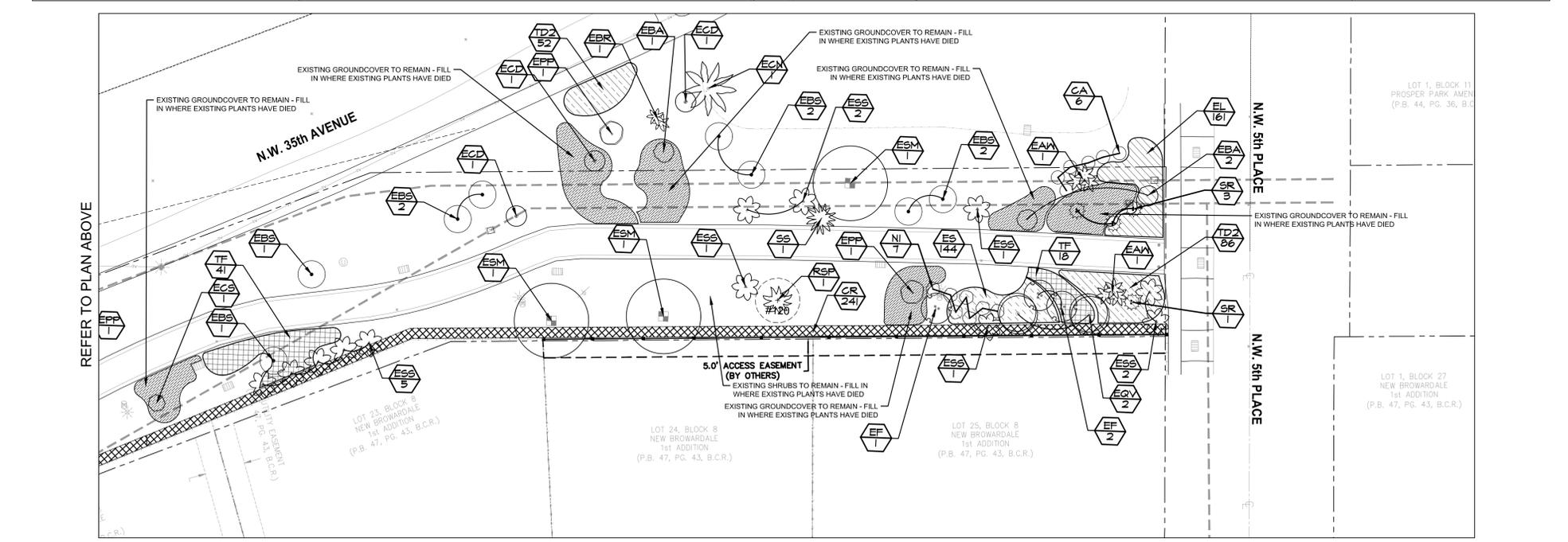
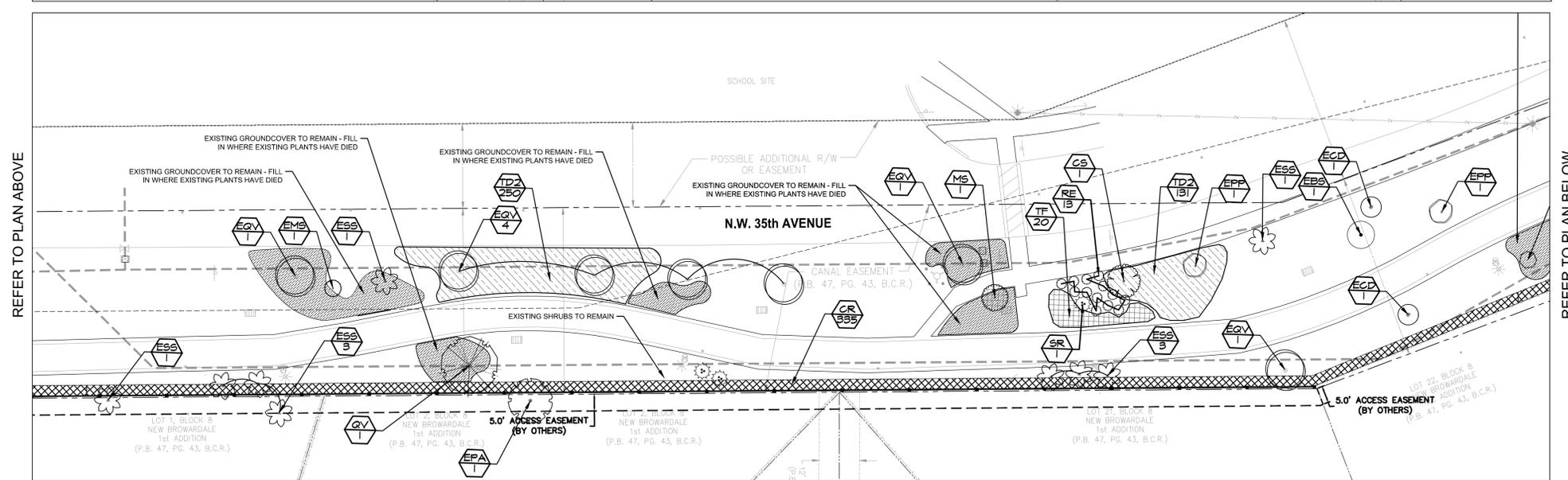
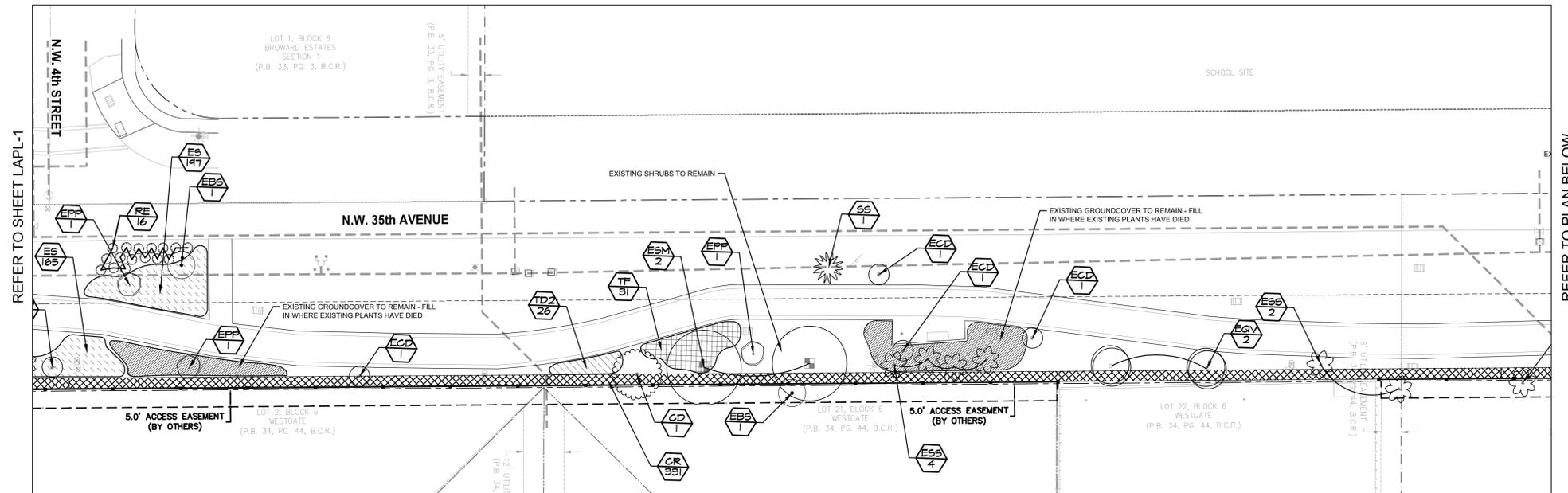
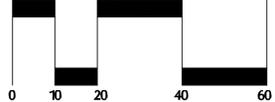


PLANT SCHEDULE

EXISTING TREES TO REMAIN		
CODE	BOTANICAL NAME	COMMON NAME
EAW	Acroelapha wrightii	Paurotis Palm
EBR	Beaucarnea recurvata	Pony Tail Palm
EBA	Bulnesia arborea	Maracabo Lignum Vitae
EBS	Bursera simaruba	Gumbo Limbo
ECD	Coccoloba diversifolia	Pigeon Plum
ECN	Cocos nucifera	Coconut Palm
ECS	Cordia sebestena	Orange Geiger Tree
EMS	Magnolia virginiana	Sweetbay Magnolia
EMI	Mangifera indica	Mango
EPA	Persea americana	Avocado
EPP	Piscidia piscipula	Jamaican Dogwood
EQL	Quercus laurifolia	Laurel Oak
EQV	Quercus virginiana	Southern Live Oak
ESS	Sabal palmetto	Cabbage Palmetto
ESM	Sweetenia mahagoni	West Indian Mahogany
ETC	Tabebuia caribba	Silver Trumpet
RELOCATED TREES		
CODE	BOTANICAL NAME	COMMON NAME
RSP	Sabal palmetto	Cabbage Palmetto
REPLACEMENT TREES		
CODE	BOTANICAL NAME	COMMON NAME
BA	Bulnesia arborea	Maracabo Lignum Vitae
CD	Coccoloba diversifolia	Pigeon Plum
CS	Cordia sebestena	Orange Geiger Tree
EF	Erithalis fruticosa	Black Torch
MS	Magnolia virginiana	Sweetbay Magnolia
PP	Piscidia piscipula	Jamaican Dogwood
QV	Quercus virginiana	Southern Live Oak
SS	Sabal palmetto	Cabbage Palmetto
REPLACEMENT SHRUBS		
CODE	BOTANICAL NAME	COMMON NAME
CA	Calliandra americana	American Beautyberry
HF	Hamelia patens	Firebush
MF	Myrciathes fragrans	Simpson's Stopper
NI	Nashia inaguensis	Bahama Berry
RE	Russelia equisetiformis	Firecracker Plant
SR	Serenoa repens	Saw Palmetto
SHRUB AREAS		
CODE	BOTANICAL NAME	COMMON NAME
CR	Chrysobalanus icaco 'Red Tip'	Red Tip Coco Plum
REPLACEMENT GROUNDCOVERS		
CODE	BOTANICAL NAME	COMMON NAME
BA2	Borreria arborescens	Silver Sea-Oxeye Daisy
ES	Eragrostis spectabilis	Purple Lovegrass
EL	Ernodea littoralis	Golden Creeper
SB	Spartina bakeri	Sand Cordgrass
TF	Tripsacum dactyloides	Fakahatchee Grass
TD2	Tripsacum floridanum	Florida Gamagrass

Scale: 1" = 20'-00"

North



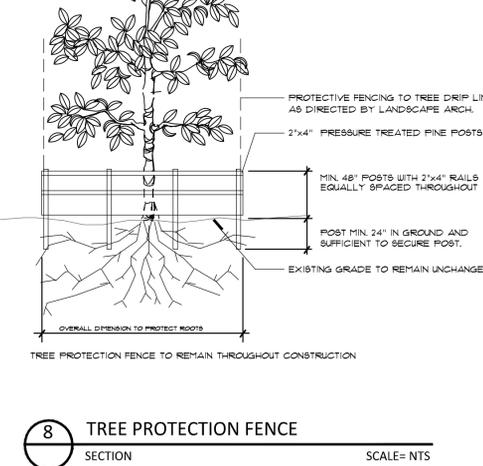
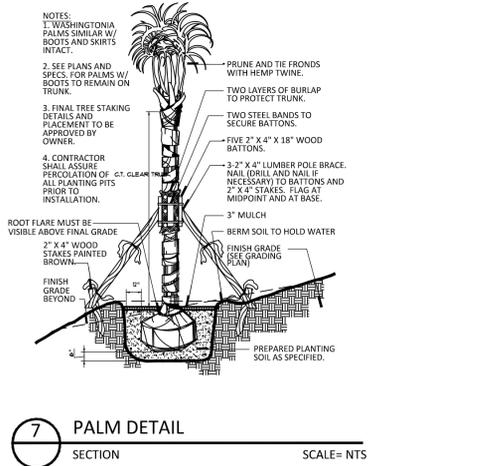
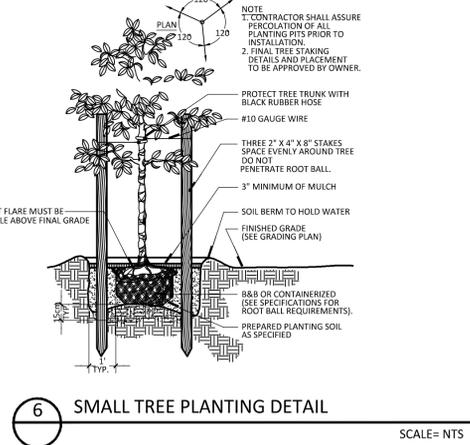
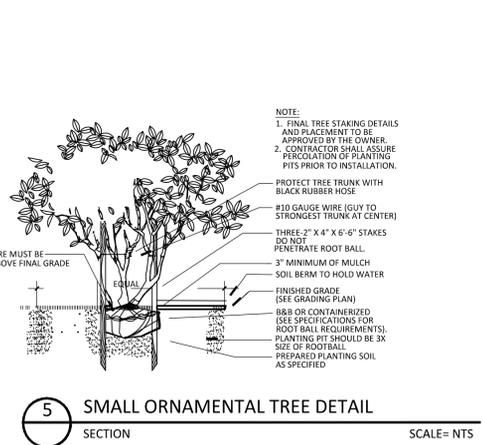
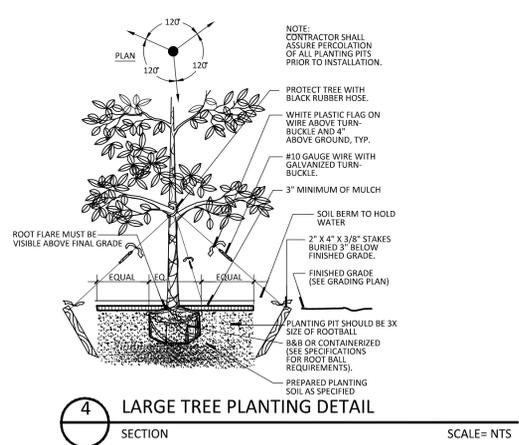
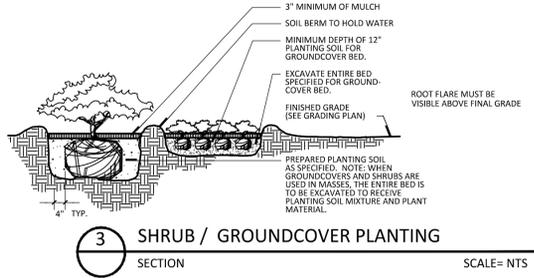
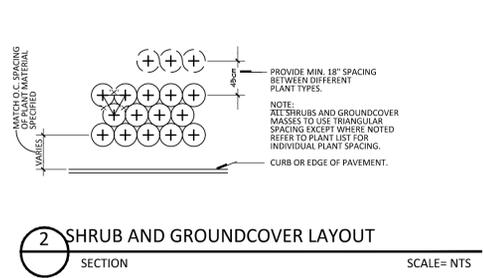
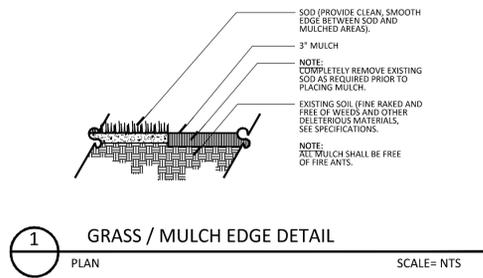


Scale: 1" = 20'-00"



PLANT SCHEDULE

EXISTING TREES TO REMAIN		CODE	QTY	BOTANICAL NAME	COMMON NAME	CONTAINER	SIZE	CALIPER
	EAW	4	Aceelorrhapha wrightii	Pawpaw	100 gal.	MULTI TRUNK		
	EBR	1	Beaucarnea recurvata	Pony Tail Palm	---			
	EBA	5	Bulnesia arborea	Maracaibo Lignum Vitae	---			
	EBS	24	Bursera simaruba	Gumbo Limbo	---			
	ECD	16	Coccoloba diversifolia	Pigeon Plum	---			
	ECN	1	Cocos nucifera	Coconut Palm	---			
	ECS	1	Cordia sebestena	Orange Geiger Tree	---			
	EMS	1	Magnolia virginiana	Sweetbay Magnolia	---			
	EMI	2	Mangifera indica	Mango	---			
	EPA	1	Persea americana	Avocado	---			
	EPP	8	Piscidia piscipula	Jamaican Dogwood	---			
	EQL	1	Quercus laurifolia	Laurel Oak	---			
	EQV	15	Quercus virginiana	Southern Live Oak	---			
	ESS	56	Sabal palmetto	Cabbage Palmetto	---			
	ESM	8	Swietenia mahagoni	West Indian Mahogany	---			
	ETC	1	Tabebuia caraiba	Silver Trumpet	---			
RELOCATED TREES		CODE	QTY	BOTANICAL NAME	COMMON NAME	CONTAINER	SIZE	CALIPER
	RSP	1	Sabal palmetto	Cabbage Palmetto	RELOCATED	Relocated		
REPLACEMENT TREES		CODE	QTY	BOTANICAL NAME	COMMON NAME	CONTAINER	SIZE	CALIPER
	BA	1	Bulnesia arborea	Maracaibo Lignum Vitae	---	16' HT	4" cal.	
	CD	2	Coccoloba diversifolia	Pigeon Plum	---	12' HT	3" MIN	
	CS	1	Cordia sebestena	Orange Geiger Tree	---	12' HT	3"	
	EF	3	Erithalis fruticosa	Black Torch	15 gal.	MULTI TRUNK		
	MS	5	Magnolia virginiana	Sweetbay Magnolia	45 gal.	MULTI TRUNK		
	PP	1	Piscidia piscipula	Jamaican Dogwood	---	12-14' HT	3" MIN	
	QV	1	Quercus virginiana	Southern Live Oak	---	20' HT, SINGLE LEADER	6" CAL - SPECIMEN TREE	
	SS	4	Sabal palmetto	Cabbage Palmetto	---	12'-14' OA		
REPLACEMENT SHRUBS		CODE	QTY	BOTANICAL NAME	COMMON NAME	CONTAINER	SIZE	SPACING
	CA	6	Callicarpa americana	American Beautyberry	7 gal.	FULL		
	HF	3	Hamelia patens	Firebush	15 gal.	FULL		
	MF	1	Myrcianthes fragrans	Simpson's Stopper	15 gal.	FULL		
	NI	7	Nashia inaguensis	Bahama Berry	7 gal.	FULL		
	RE	29	Russelia equisetiformis	Firecracker Plant	3 gal.	FULL		
	SR	8	Serenoa repens	Saw Palmetto	25 gal.	MULTI TRUNK		
SHRUB AREAS		CODE	QTY	BOTANICAL NAME	COMMON NAME	CONTAINER	SIZE	SPACING
	CR	1,604	Chrysobalanus icaco 'Red Tip'	Red Tip Coco Plum	---	18" X 18"		24" o.c.
REPLACEMENT GROUNDCOVERS		CODE	QTY	BOTANICAL NAME	COMMON NAME	CONTAINER	SIZE	SPACING
	BA2	156	Borrhchia arborescens	Silver Sea-Oxeye Daisy	3 gal.	FULL		24" o.c.
	ES	506	Eragrostis spectabilis	Purple Lovegrass	3 gal.	FULL		18" o.c.
	EL	533	Erodia littoralis	Golden Creeper	1 gal.	FULL		18" o.c.
	SB	138	Spartina bakeri	Sand Cordgrass	3 gal.	FULL		30" o.c.
	TF	263	Tripsacum dactyloides	Fakahatchee Grass	3 gal.	FULL		36" o.c.
	TD2	545	Tripsacum floridanum	Florida Gamagrass	3 gal.	FULL		24" o.c.



LANDSCAPE NOTES

- THE WORK CONSISTS OF THE COMPLETE PLANT MATERIAL INSTALLATION ON THE DRAWINGS AND AS HEREIN SPECIFIED. THIS WORK SHALL INCLUDE, BUT IS NOT LIMITED TO, THE SUPPLYING OF ALL PLANT MATERIAL SPECIFIED, THE FURNISHING OF LABOR, EQUIPMENT, APPLIANCES AND ALL MATERIALS CALLED FOR, AND IN PERFORMING ALL OPERATIONS IN CONNECTION WITH THE LANDSCAPE INSTALLATION ON THESE PLANS. FURTHER, THE WORK SHALL INCLUDE THE MAINTAINING OF ALL PLANTS AND PLANTING AREAS UNTIL ACCEPTANCE BY THE OWNER, AND THE FULFILLING OF ALL GUARANTEE PROVISIONS AS HEREIN SPECIFIED.
- QUANTITIES, SIZES AND LOCATION OF PLANTS WILL BE DETERMINED BY PLAN AND PLANT LISTS. SIZE OF PLANTS SHALL TAKE PRECEDENCE OVER CONTAINER SIZE. SPACING OF GROUNDCOVERS WILL BE DETERMINED BY PLANT LIST. QUANTITIES SHOWN ON PLANT LIST ARE TO BE USED AS A GUIDELINE ONLY. CONTRACTOR WILL BE RESPONSIBLE FOR VERIFICATION OF ACTUAL QUANTITIES CALLED FOR ON PLANS. DISCREPANCIES SHOULD BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT.
- IN THE EVENT OF VARIATION BETWEEN THE PLANT LIST AND THE ACTUAL NUMBER OF PLANTS SHOWN ON THE PLANS, THE PLANS SHALL CONTROL.
- PLANT MATERIALS WILL BE INSPECTED BY THE OWNER'S REPRESENTATIVE AT THE JOB SITE PRIOR TO INSTALLATION. WHEN INSPECTION WORK DOES NOT COMPLY WITH THE REQUIREMENTS, REPLACE REJECTED WORK AND CONTINUE SPECIFIED MAINTENANCE UNTIL REINSPECTED AND FOUND TO BE ACCEPTABLE. REMOVE REJECTED PLANTS AND MATERIALS FROM THE PLANTING SITE WITHIN 48 HOURS AND REPLACE WITH ACCEPTABLE MATERIALS.
- ALL MATERIALS AND EQUIPMENT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. THE OWNER OR HIS REPRESENTATIVE RESERVES THE RIGHT TO DIRECT THE REMOVAL AND REPLACEMENT OF ANY ITEMS WHICH, IN HIS OPINION, DO NOT PRESENT AN ORDERLY AND REASONABLE NEAT OR WORKMANLIKE APPEARANCE, PROVIDED SUCH ITEMS CAN BE PROPERLY INSTALLED IN AN ORDERLY WAY BY TYPICAL INSTALLATION METHODS.
- ALL ON SITE PLANTING BEDS SHALL BE MULCHED WITH 3" OF RECYCLED MULCH. NO RED COLORED MULCH WILL BE ACCEPTED.
- ALL TREES 6' TALL OR LARGER SHALL BE STAKED AND GUYED WITH VERTICAL 2" X 2" PINE STAKES OR 4" DIAMETER POST IN DETAILS. NO DEVIATIONS UNLESS APPROVED IN WRITING.

- PLANTING SOIL FOR ALL PLANT MATERIALS SHALL CONSIST OF TWO (2) PARTS OF TOPSOIL WITH ONE (1) PART PEAT MOSS AND .9 kg FERTILIZER PER CUBIC METER, WELL MIXED.
- ALL PLANT MATERIALS SHALL BE WATERED BY THE CONTRACTOR THOROUGHLY WHEN PLANTED AND DURING THE PLANTING TIME PERIOD UP TO FINAL ACCEPTANCE BY OWNER.
- PROVIDE NEW TOPSOIL FOR TURF IN ALL SODDED AND SEEDING AREAS. TOPSOIL SHALL BE FERTILE, BLACK IN COLOR, FRIABLE, NATURAL LOAM, SURFACE SOIL, REASONABLY FREE OF SUBSOIL, CLAY LUMPS, BRUSH, WEEDS AND OTHER LITTER, AND FREE OF ROOTS, STUMPS, STONES LARGER THAN 3 cm IN ANY DIMENSION, AND OTHER EXTRANEOUS OR TOXIC MATTER HARMFUL TO SOD GROWTH. OBTAIN TOPSOIL ONLY FROM NATURALLY, WELL DRAINED SITES WHERE TOPSOIL OCCURS IN A DEPTH OF NOT LESS THAN 10 cm. DO NOT OBTAIN FROM BOGS OR MARSHES. THE CONTRACTOR SHALL PROVIDE A SOILS TEST REPORT SHOWING pH AND NUTRIENTS; - pH SHALL BE 5.5 TO 6.0. IF NOT THEN USE THE APPROPRIATE SOIL AMENDMENTS TO REACH 5.5 TO 6.0.
- CONTRACTOR TO VERIFY ALL EXISTING UNDERGROUND UTILITIES PRIOR TO ANY DIGGING.
- THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT OF ANY CONFLICT OR DISCREPANCY IN PLANS PRIOR TO PERFORMING ANY WORK IN THE AFFECTED AREA.
- CONTRACTOR SHALL CLEAN UP AND REMOVE FROM THE PREMISES ALL SURPLUS AND DISCARDED MATERIALS AND RUBBISH FROM HIS CONSTRUCTION.
- ALL SHRUBS, GROUNDCOVERS, AND SOD SHALL BE GUARANTEED FROM NINETY (90) DAYS AFTER FINAL ACCEPTANCE BY OWNER. ALL TREES SHALL BE GUARANTEED FOR ONE (1) YEAR AFTER FINAL ACCEPTANCE BY OWNER.
- FINAL INSPECTION WILL NOT TAKE PLACE UNTIL ALL MATERIALS ARE PLANTED/INSTALLED CORRECTLY. CONTRACTOR WILL REQUEST A FINAL INSPECTION BY WRITTEN LETTER TO OWNER.
- UPON NOTICE OF FINAL ACCEPTANCE, THE OWNER WILL ASSUME MAINTENANCE AND THE GUARANTEE/WARRANTY PERIOD BEGINS.
- ALL SODDED AREAS SHALL BE HAND WATERED UNTIL TURF IS ESTABLISHED.

- CONTRACTOR TO NOTIFY/VERIFY WITH LANDSCAPE ARCHITECT, THE AVAILABILITY (QUANTITY & QUALITY PRESCRIBED IN THE DRAWINGS) OF ALL PLANT MATERIAL SPECIFIED AT THE TIME OF THE BID.
- CONTRACTOR INSTALLING THE PLANT MATERIAL AT THE SITE WILL BE RESPONSIBLE FOR MAINTAINING THE CONDITION AND HEALTH OF THE MATERIAL (AS DOCUMENTED IN THE PHOTOGRAPHS AT THE TIME OF INSPECTION) FROM THE TIME OF INSTALLATION TO THE TIME OF TURNING OVER THE PROJECT TO THE OWNER OR OPERATOR. IF THE CONTRACTOR FAILS TO MAINTAIN THE MATERIAL AS SPECIFIED, THAT PLANT MATERIAL WILL BE REJECTED.
- REPLACE EXISTING SOD WHERE DAMAGED BY CONSTRUCTION ACTIVITIES.
- ALL PLANT MATERIAL MUST BE FLORIDA GRADE #1 OR BETTER, IN ACCORDANCE WITH GRADES AND STANDARDS FOR NURSERY PLANTS (FLORIDA DIVISION OF PLANT INDUSTRY). PLANTS WHICH DO NOT MEET THE SPECIFICATION WILL NOT BE ACCEPTED.
- ALL PLANT MATERIAL MUST BE FLORIDA GRADE #1 OR BETTER, IN ACCORDANCE WITH GRADES AND STANDARDS FOR NURSERY PLANTS (FLORIDA DIVISION OF PLANT INDUSTRY). PLANTS WHICH DO NOT MEET THE SPECIFICATION WILL NOT BE ACCEPTED.
- NO SUBSTITUTIONS SHALL BE ACCEPTED WITHOUT PRIOR WRITTEN CONSENT OF THE LANDSCAPE ARCHITECT. ANY INTENDED SUBSTITUTIONS SHALL BE DETAILED ON THE BID.
- PLANT MATERIAL SHALL BE FERTILIZED THROUGHOUT THE WARRANTY PERIOD AND THEREAFTER BY THE OWNER 3-4 TIMES PER YEAR. UTILIZE A GENERAL FERTILIZER WITH AN ANALYSIS OF 8-2-12 OR A PALM SPECIAL/ORNAMENTAL TREE FERTILIZER WITH AN ANALYSIS OF 13-3-13 OR SIMILAR. FOLLOW MANUFACTURER RECOMMENDED RATES AND METHODS OF APPLICATION.
- IN THE ABSENCE OF IRRIGATION, PLANT MATERIAL SHALL BE HAND WATERED A MINIMUM OF EVERY DAY FOR 6 WEEKS AFTER PLANTING. THE CLIENT SHOULD CONTINUE HAND WATERING UNTIL ALL MATERIAL IS FULLY ESTABLISHED.
- IN THE ABSENCE OF IRRIGATION, PLANT MATERIAL SHALL BE HAND WATERED A MINIMUM OF EVERY DAY FOR 6 WEEKS AFTER PLANTING. THE CLIENT SHOULD CONTINUE HAND WATERING UNTIL ALL MATERIAL IS FULLY ESTABLISHED.
- ALL PLANT MATERIAL SHALL BE PLANTED WITH ROOT FLARE VISIBLE AT FINISHED GRADE. DO NOT PLANT MATERIAL TOO DEEP.
- THE CONTRACTOR SHALL SCHEDULE A PRE-PLANTING MEETING WITH THE LANDSCAPE ARCHITECT AND CLIENT TO REVIEW ANY ISSUES. PRIOR TO COMMENCING THE PROJECT.



PREPARED BY: **ECOPLAN**
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 PALM BEACH, FL 33480-1922 WWW.ECOPLAN-FL.COM

CONSTRUCTION DOCUMENTS

Lauderhill 35th Avenue Wall
 LAUDERHILL, FL

PLANTING DETAILS AND NOTES

DATE: 8/4/2023
 PROJECT #: 2315
 DRAWN BY: JH
 CHECKED BY: JH
 SCALE: INDICATED

REVISIONS:

SEAL:
 Design approved by:
 John Henigan
 D:\c-us
 10/10/2023 10:41
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SHEET NUMBER:
LAPL-6