



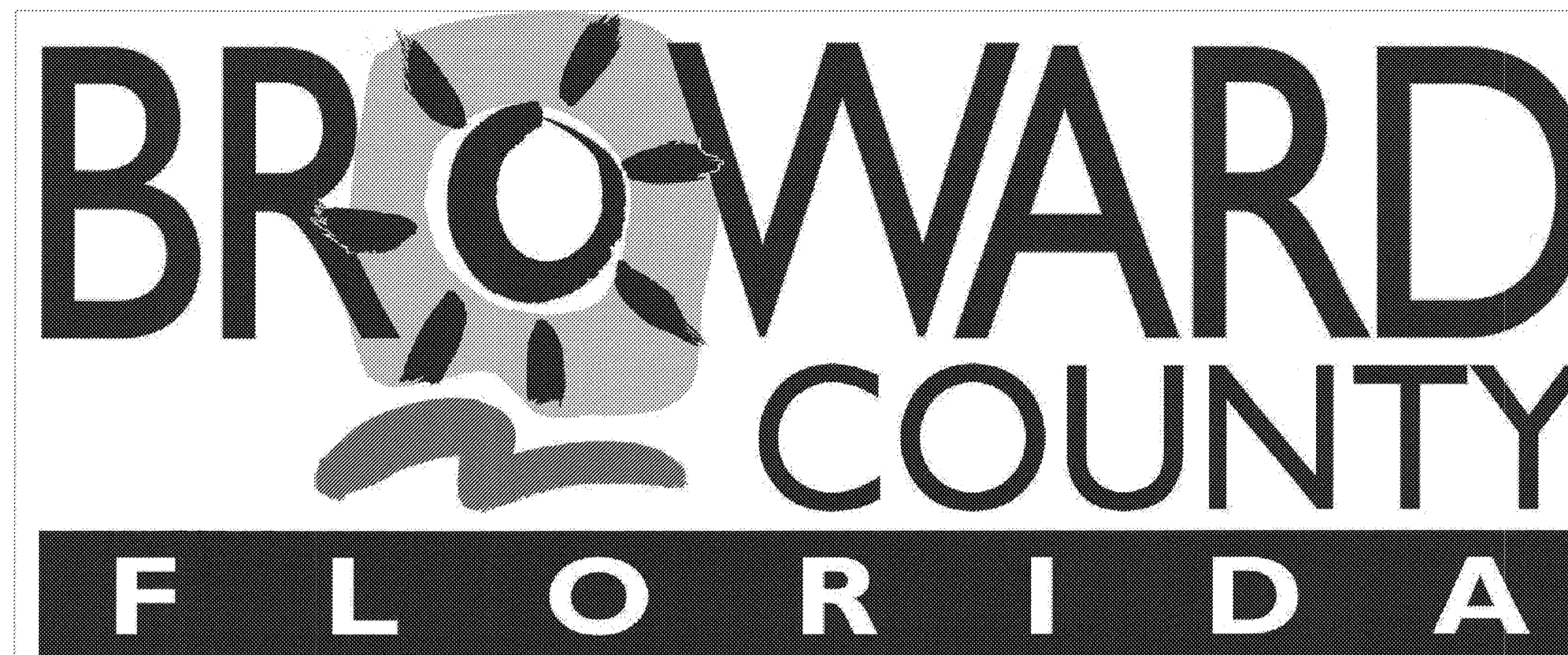
CITY OF COCONUT CREEK
DEVELOPMENT REVIEW COMMITTEE REVIEW #3
FEBRUARY 11, 2013

Project Name:	Saw Palmetto Natural Area
Project Number:	PZ-12090001
Location:	4950 NW 71 st Place, Coconut Creek FL 33073
Applicant/Agent:	Walters Zackria
Review/Application	Administrative Approval

DEPARTMENTAL COMMENTS

LANDSCAPE ARCHITECTURE

1. Continuous visual screen around irrigation pump requires “branch to branch spacing”. The plant material specified has a spread of 18”, which would require an on center spacing of 18”. Revise spacing on the plant list and revise plant quantities.
2. Fire Hydrant detail requires 7.5’ in front of its location, detail shows 4’. Revise detail accordingly.



BROWARD COUNTY PARKS AND RECREATION DIVISION

SAW PALMETTO NATURAL AREA

SCOPE OF WORK

1. CLEAR AND GRUB AS INDICATED ON THE PLANS.
2. PROVIDE NEW ALUMINUM OVERLOOK AND ELEVATED WALKWAY AS INDICATED.
3. PROVIDE NEW ASPHALT PAVEMENT FOR THE PARKING AREA DRIVEWAY, PARKING SPACE STRIPING, TRAFFIC STRIPING AND PARKING SIGNAGE
4. PROVIDE NEW ADA COMPLIANT CONCRETE WALKWAY AS INDICATED.
5. PROVIDE SITE AMENITIES AS INDICATED.
6. PROVIDE (2) PAVILION STRUCTURES WITH PICNIC TABLES AND KIOSK.
7. PROVIDE EXTERIOR HI-LO DRINKING FOUNTAIN AS INDICATED.
8. PROVIDE NEW LANDSCAPE AND IRRIGATION AS NOTED.
9. PROVIDE NEW IRRIGATION WELL AS NOTED.
10. PROVIDE NEW WATER SERVICE w/ METER, BACKFLOW PREVENTER
11. PROVIDE NEW STORAGE BUILDING AS NOTED.

BUILDING CODE INFORMATION

CONSTRUCTION :	EXISTING BUILDING BUILDING TYPE : TYPE V (B) CONSTRUCTION
OCCUPANCY :	PAVILION - GROUP 'U' STORAGE - S-2
HEIGHT:	ALLOWED : 40 FEET PROPOSED : PAVILION : 10 FEET 9 INCHES STORAGE BUILDING : 13 FEET 1 INCH
AREAS:	STORAGE BUILDING : 300 SHELTER STRUCTURE 1 : 102 SHELTER STRUCTURE 2 : 102

CONSTRUCTION TO COMPLY WITH THE FLORIDA BUILDING CODE 2010 EDITION & LATEST REVISIONS, F.S. SECTION 633, AND FLORIDA FIRE PREVENTION CODE 2010.

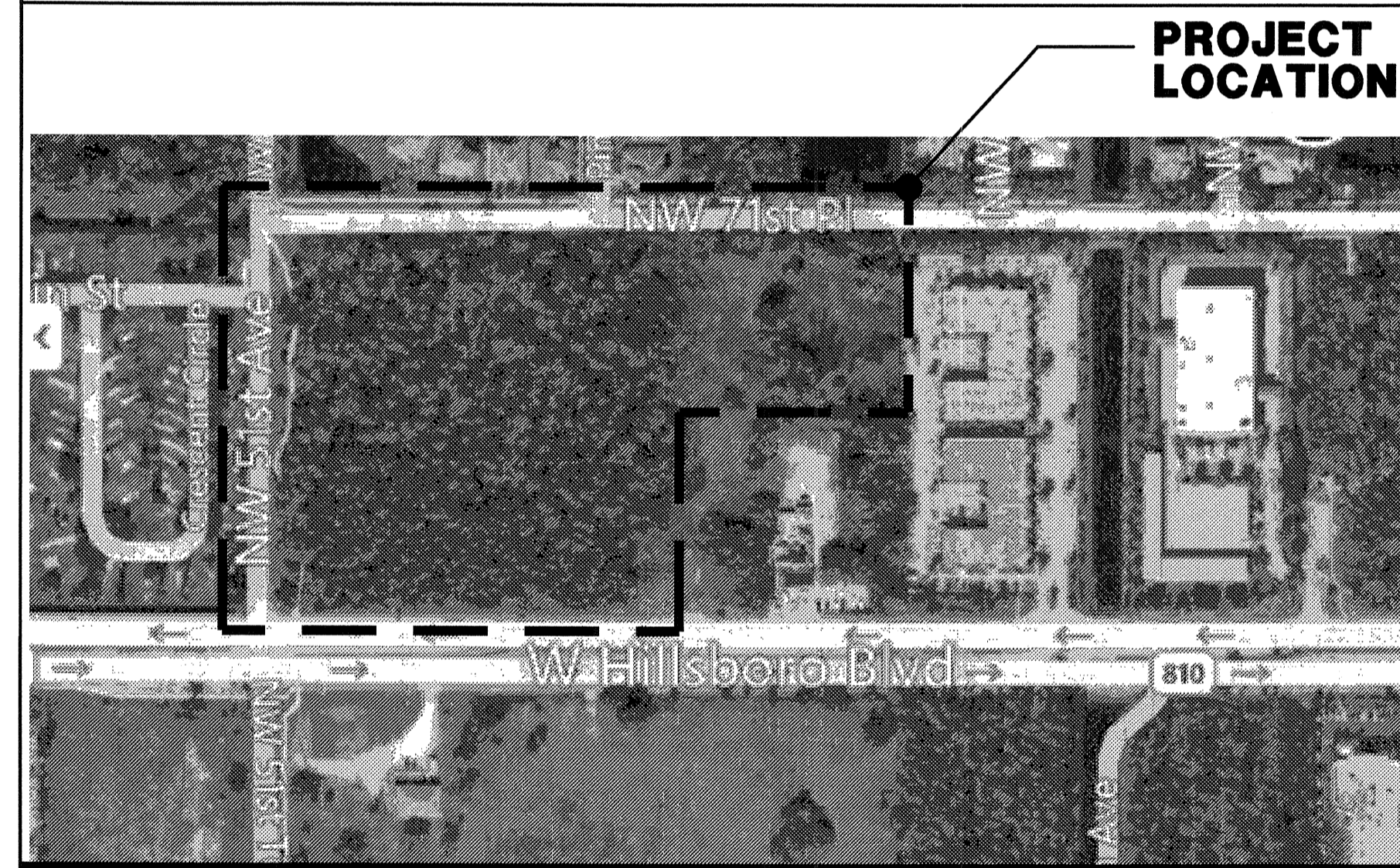
PROJECT TEAM

ARCHITECT, CIVIL, STRUCTURAL:	WALTERS ZACKRIA ASSOCIATES 620 SE 1st STREET FORT LAUDERDALE, FLORIDA 33301 Ph. (954) 522-4123 Fx. (954) 522-4128
LANDSCAPE:	BROWARD COUNTY HIGHWAY CONST. AND ENGG. DIV. (PARKS PLANNING AND DESIGN) 1 N UNIVERSITY DRIVE, PLANTATION, FLORIDA Ph. (954) 370-3810
IRRIGATION:	DAVE BODKER LANDSCAPE ARCH/PL. INC. 75 NE 6TH AVENUE, SUITE 209 DELRAY BEACH, FLORIDA 33483 Ph : (561) 276 6311
ELECTRICAL:	CONSTRUCTION CONSULTANTS OF FLORIDA, INC. 1475 SW 21ST AVENUE FORT LAUDERDALE, FLORIDA 33312 Ph. (954) 584-7904 Fx. (954) 321-0355

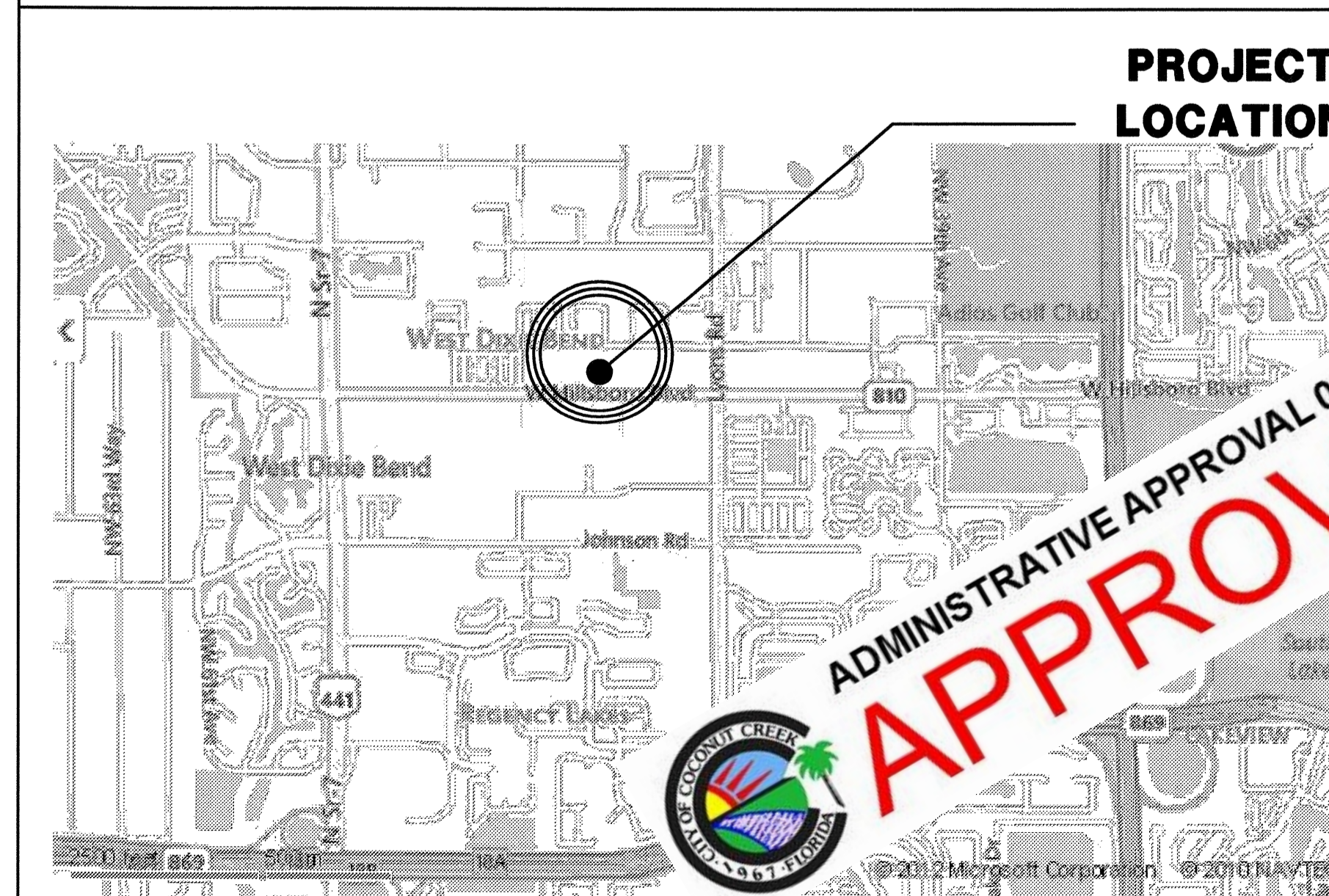
DRAWING INDEX

GENERAL:	
0.00	COVER SHEET
SURVEY:	
1 OF 2	SURVEY SHEET
2 OF 2	SURVEY SHEET
CIVIL:	
C-1	CIVIL NOTES
C-2	CIVIL DRAINAGE
C-3	CIVIL GRADING
C-4	CIVIL DETAILS
C-5	CIVIL DETAILS
LANDSCAPE:	
L-1	LANDSCAPE PLAN, AND DETAILS
IRRIGATION:	
IR-1	IRRIGATION PLAN
IR-2	IRRIGATION DETAILS
ARCHITECTURAL:	
0.09	SITE DEMOLITION PLAN
0.10	NEW SITE PLAN
0.11	ENLARGED SITE PLAN
1.01	STORAGE BUILDING - PLANS, EXTERIOR ELEVATIONS
1.02	PAVILION AND KIOSK - PLAN, EXTERIOR ELEVATIONS, SECTION
1.03	EXTERIOR COLORED ELEVATIONS

SITE MAP



LOCATION MAP



GENERAL NOTES

1. CONTRACTOR SHALL INSPECT THE SITE & VERIFY ALL EXISTING UTILITY SERVICE LOCATIONS IN ALL AREAS INCLUDED IN THE SCOPE OF WORK PRIOR TO COMMENCING CONSTRUCTION.
2. ANY EXISTING ITEMS THAT ARE DISTURBED, DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE REPLACED WITH NEW OR REPAIRED TO THE OWNERS SATISFACTION AND LIKE NEW CONDITION.
3. DO NOT DISTURB ANY STRUCTURAL COMPONENTS OF EXISTING BUILDINGS WITHOUT PRIOR WRITTEN APPROVAL BY ARCHITECT.
4. DO NOT DISTURB ANY EXISTING UTILITIES, UNLESS SPECIFICALLY STATED ON PLANS, WITHOUT PRIOR WRITTEN APPROVAL BY ARCHITECT.
5. EACH CONTRACTOR SHALL USE ALL POSSIBLE CARE TO PROTECT ALL EXISTING MATERIALS, SURFACES, AND FURNISHINGS FROM DAMAGE DURING ALL PHASES OF CONSTRUCTION.
6. ALL UNANTICIPATED AND UNFORESEEN DEMOLITION AND OR NEW CONSTRUCTION CONDITIONS WHICH REQUIRE DEVIATION FROM THE PLANS AND NOTES HEREIN SHALL BE REPORTED TO THE ARCHITECT, IN WRITING, PRIOR TO COMMENCING SAID WORK.
7. ARCHITECT SHALL NOT BE LIABLE FOR PROBLEMS RELATING TO EXISTING CONDITIONS. NOTIFY ARCHITECT, IN WRITING, IMMEDIATELY IF PROBLEMS ARISE.
8. ALL NEW MATERIAL AND/OR PATCHWORK SHALL BE PROVIDED TO MATCH EXISTING MATERIALS AND/OR ADJOINING WORK WHERE PRACTICAL, EXCEPT AS SPECIFICALLY NOTED HEREIN.
9. UNLESS NOTED OTHERWISE, THE CONTRACTOR SHALL FURNISH WRITTEN GUARANTEES FOR ALL TRADES FOR A MINIMUM OF ONE YEAR. DEFECTIVE MATERIALS OR WORKMANSHIP SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
10. GENERAL CONTRACTOR IS TO THOROUGHLY REVIEW ALL DRAWINGS AND PROVIDE OVERVIEW TO ALL TRADES. ALL SUBCONTRACTORS ARE TO REVIEW ALL DRAWING SHEETS - GENERAL CONTRACTOR TO PROVIDE COMPLETE SETS OF PLANS TO ALL SUBCONTRACTORS FOR REVIEW. ITEMS SHOWN ON DRAWINGS ARE REQUIRED TO BE COMPLETELY INSTALLED REGARDLESS OF IF THEY ARE NOT SPECIFICALLY DESIGNATED ON ELECTRICAL, MECHANICAL, PLUMBING, CIVIL OR STRUCTURAL ENGINEERING DRAWINGS. GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL REQUIRED ITEMS WITH ALL SUBCONTRACTORS AND THROUGHOUT ALL PHASES OF CONSTRUCTION. ALL SCHEDULES PROVIDED SHALL BE VERIFIED WITH THE PLANS. ANY DISCREPANCY SHALL BE BROUGHT UP TO THE ARCHITECT'S NOTICE AND VERIFIED.
11. ALL WORK SHALL BE DONE IN ACCORDANCE W/ ALL APPLICABLE NATIONAL, STATE & LOCAL CODES AND ORDINANCES. WORK SHALL BE DONE IN A WORKMANLIKE MANNER AS PER STANDARD BUILDING TECHNIQUES AND PRACTICES.
12. G.C IS RESPONSIBLE TO FILE AND OBTAIN BUILDING DEPARTMENT PERMITS, UNLESS NOTED OTHERWISE.
13. G.C. IS RESPONSIBLE FOR ALL SAFETY CONDITIONS RELATING TO JOB CONSTRUCTION.
14. G.C. TO BE RESPONSIBLE FOR ALL HOISTING RELATED TO WORK IN THIS CONTRACT.
15. G.C. IS TO VISIT THE SITE AND CAREFULLY INSPECT THE EXISTING CONDITIONS AFFECTING THE WORK. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND EXISTING CONDITIONS MUST BE REPORTED TO ARCHITECT IN WRITING.
16. G.C. IS TO COORDINATE ALL CUTTING AND PATCHING FOR SERVICES AS CALLED FOR ON DRAWINGS.
17. G.C. IS TO CONTROL JOB CLEANING TO PREVENT DIRT, DEBRIS AND DUST FROM THE PREMISES BEING ALTERED.
18. G.C. TO UTILIZE LASER GUIDED GRADING AND CONCRETE SCREEDING EQUIPMENT AND DIGITAL SMART LEVELS TO PROVIDE FULLY ADA COMPLIANT, WALKWAY AND PAVEMENT SLOPES.
19. CONTRACTOR SHALL NOT SCALE THE DRAWINGS. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND THIS OFFICE MUST BE NOTIFIED OF ANY VARIATION FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS.

ADMINISTRATIVE APPROVAL 02-12-13
APPROVED

Walters • Zackria Associates

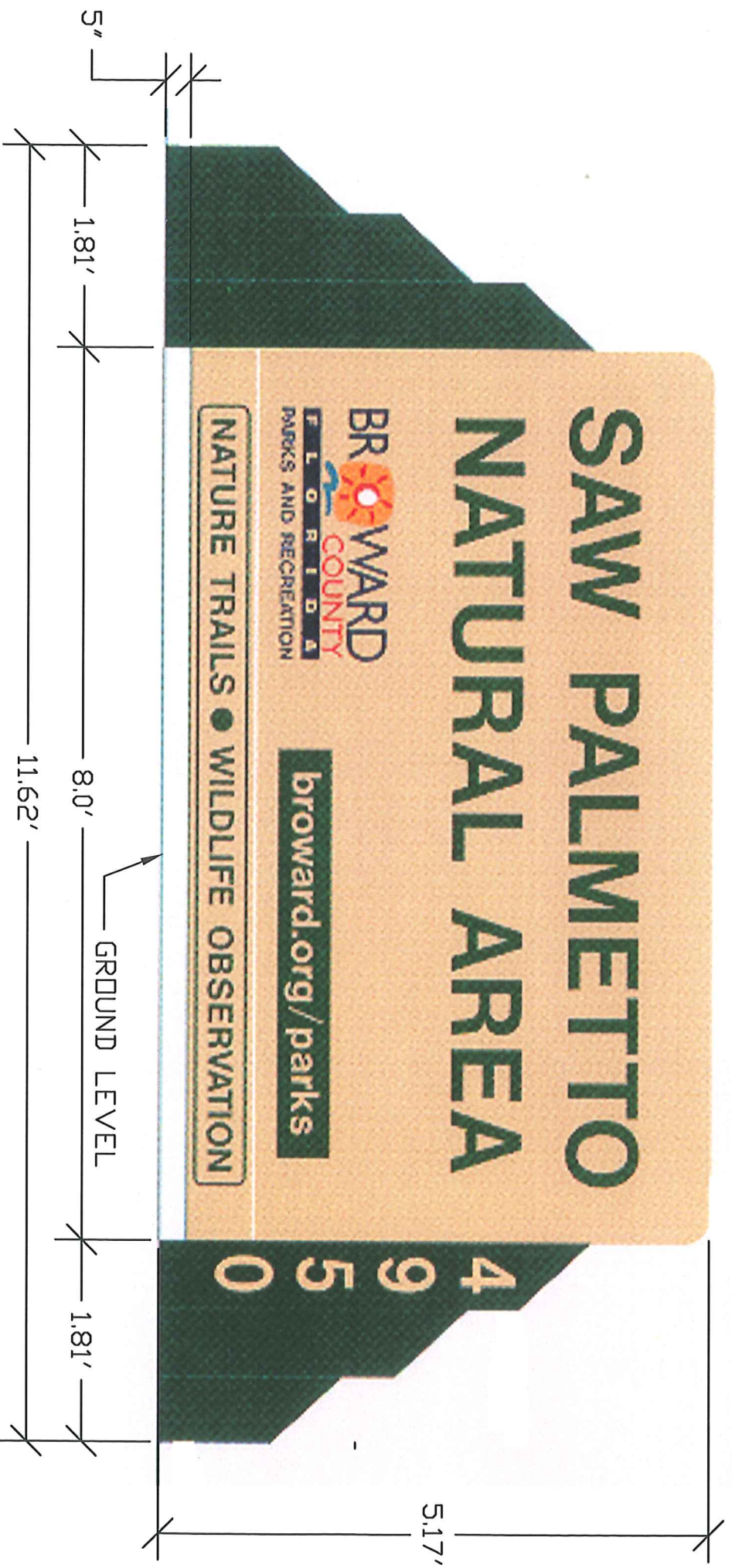
ARCHITECTURE • ENGINEERING • PLANNING
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ARJAS H. ZACKRIA, CSI - FL. AS 9150
A. MARK SCALA, P.E. - FL. PE 34353
620 SE 1ST STREET FT. LAUDERDALE FL. 33301
(954) 522-4123 FAX: (954) 522-4128

BROWARD COUNTY PARKS AND RECREATION DIVISION
SITE IMPROVEMENTS

SAW PALMETTO NATURAL AREA
4950 NW 71ST PL, COCONUT CREEK, FL 33073

DRAWN BY: DK
CHECKED BY: WZA
DATE: 09-12-12
REVISIONS:
12-15-12 DRC COMM

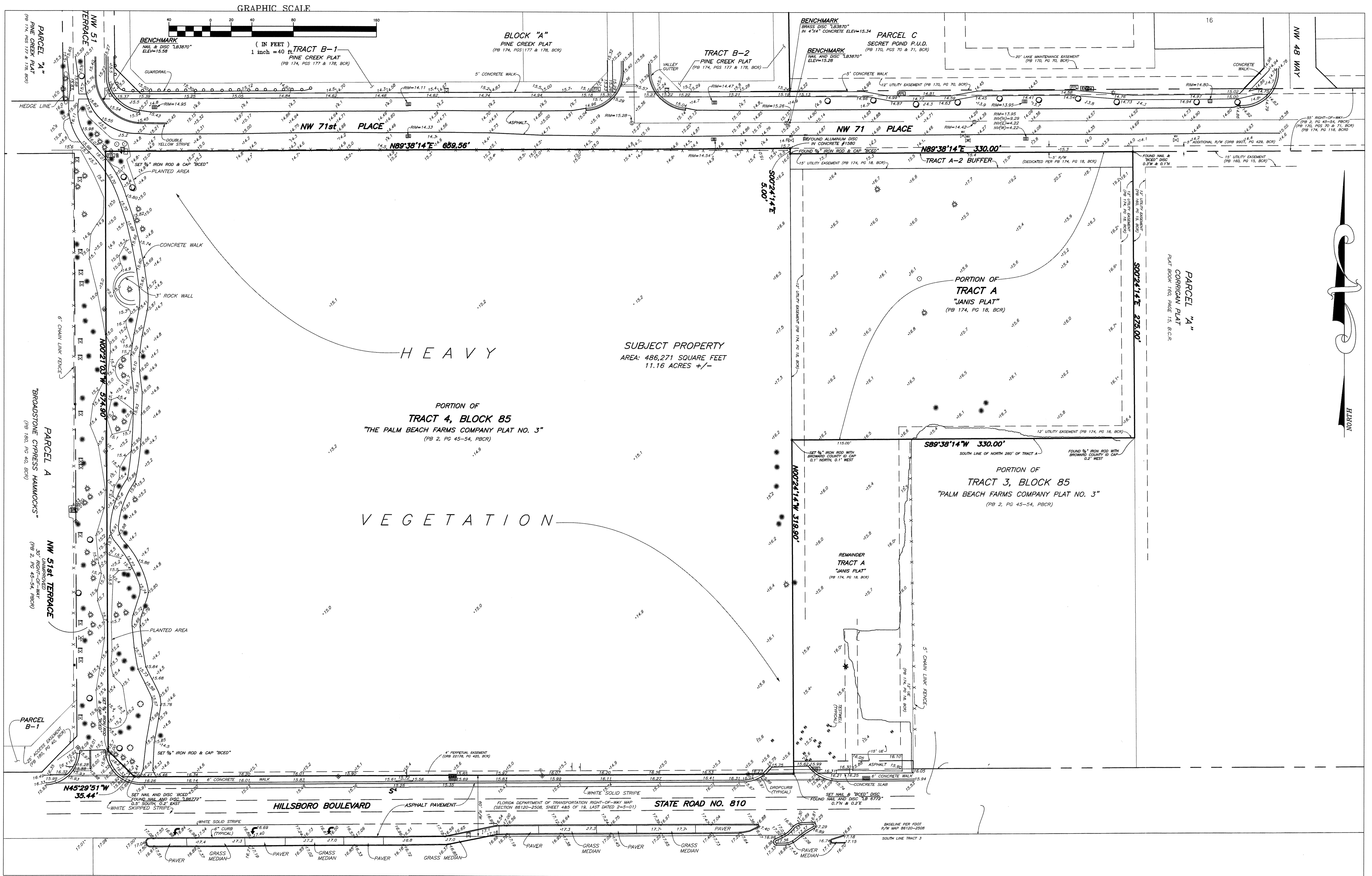
1115-07
SHEET
0.00
COVER SHEET



TOTAL AREA = 49.7 sf.

**SAW PALMETTO NATURAL AREA
ENTRANCE SIGN**

RECEIVED
DEC 24 2012



NO.	DATE	REVISION	BY	FIELD BOOK #
1	9-12-12	ADD INTERIOR ELEVATIONS, AND CORRECT ELEVATIONS ON 71st PL.	EBA	98-5

FIELD SURVEY M CILLA 7-03-12
 DRAWN BY S YOUNG 7-10-12
 CHECKED BY E AUGUSTO 01-25-99
 SURVEY DATE: 7-03-12
 DRAWING SCALE: 1" = 40'
 FILE NAME: \\SURVEY\2012-209\2012-209.DWG
 DATA COLLECTOR FILE NAME: 2012-209.RAW\JOB



PUBLIC WORKS
HIGHWAY CONSTRUCTION AND
ENGINEERING DIVISION
 1 N UNIVERSITY DRIVE, SUITE 300, PLANTATION FL 33324
 PHONE: (954) 577-4555 FAX: (954) 577-2338

BOUNDARY & TOPOGRAPHIC SURVEY
SAW PALMETTO NATURAL AREA

SECTION 6-48-42

BOUNDARY & TOPOGRAPHIC SURVEY

SAW PALMETTO NATURAL AREA

SECTION 6, TOWNSHIP 48, RANGE 42, CITY OF COCONUT CREEK, FLORIDA

BROWARD COUNTY, FLORIDA

LEGAL DESCRIPTION

TRACT A-2 BUFFER, TOGETHER WITH THE NORTH 260 FEET OF TRACT A, ACCORDING TO THE PLAT OF "JANIS PLAT", AS RECORDED IN PLAT BOOK 174, PAGE 18, OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA.

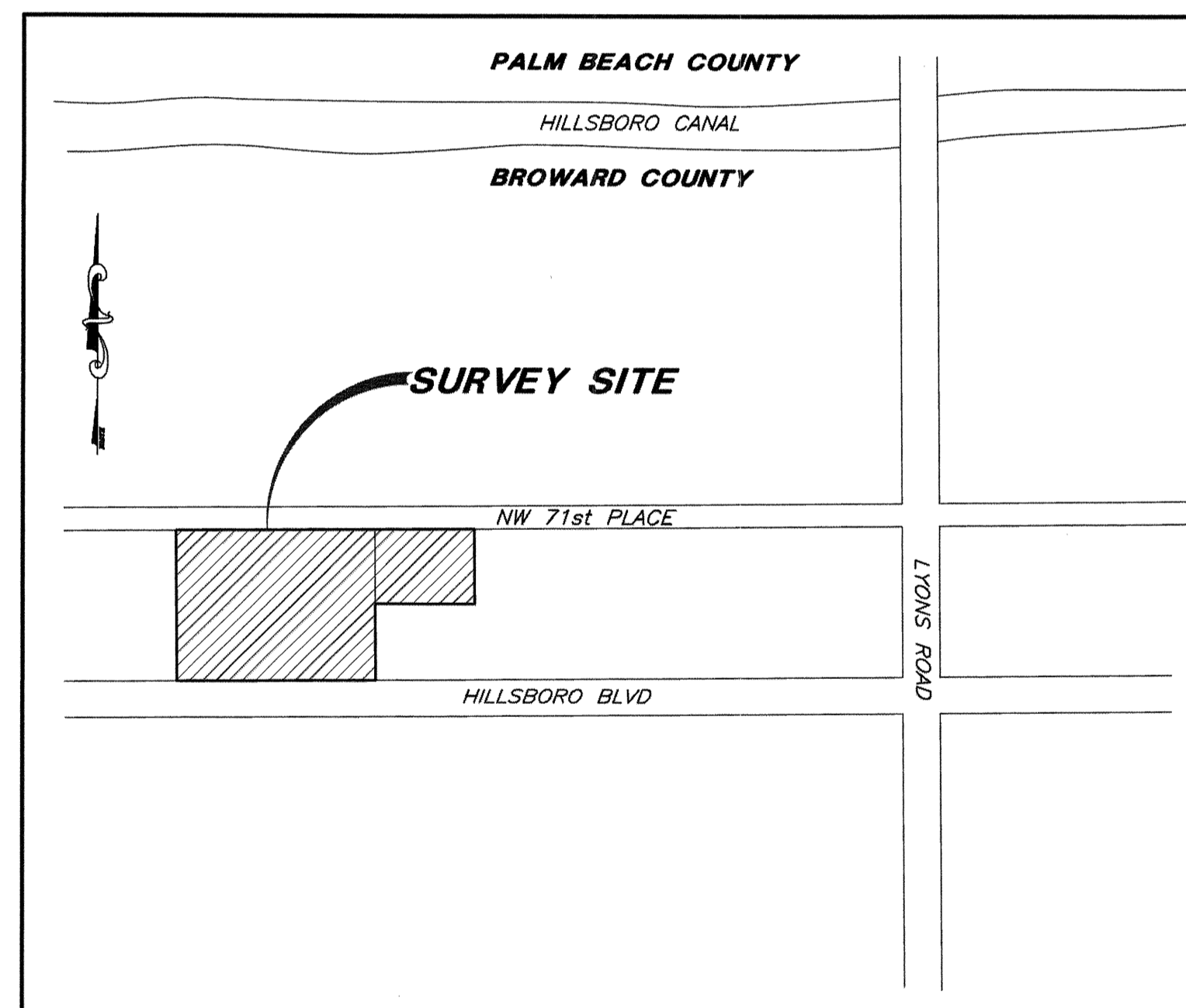
TOGETHER WITH:

ALL OF TRACT 4, BLOCK 85, "PALM BEACH FARMS COMPANY'S PLAT NO. 3", ACCORDING TO THE MAP OR PLAT THEREOF AS RECORDED IN PLAT BOOK 2, PAGES 45-54, INCLUSIVE, OF THE PUBLIC RECORDS OF PALM BEACH COUNTY, FLORIDA, LESS THAT PORTION OF SAID TRACT 4 THAT LIES WITHIN 5.3 FEET OF THE CENTERLINE OF STATE ROAD 540 RIGHT-OF-WAY, AND FURTHER CONVEYED TO THE STATE OF FLORIDA, STATE ROAD DEPARTMENT, BY THAT CERTAIN DEED RECORDED IN O.R. BOOK 3171, PAGE 931, LESS THAT PORTION CONVEYED TO THE STATE OF FLORIDA, DEPARTMENT OF TRANSPORTATION BY THAT CERTAIN DEED RECORDED IN O.R. BOOK 22178, PAGE 423, SAID LANDS SITUATE IN BROWARD COUNTY, FLORIDA

SAID LANDS SITUATE IN THE CITY OF COCONUT CREEK, BROWARD COUNTY, FLORIDA.
CONTAINING 486,271 SQUARE FEET, 11.16 ACRES, MORE OR LESS.

SURVEY NOTES

- 1) SOURCES OF INFORMATION USED IN THE PREPARATION OF THIS SURVEY ARE AS FOLLOWS:
 - A) THE PLAT OF "THE PALM BEACH FARMS COMPANY PLAT NO. 3" AS RECORDED IN PLAT BOOK 2, PAGE 45 OF THE PUBLIC RECORDS OF PALM BEACH COUNTY, FLORIDA.
 - B) THE PLAT OF "PINE CREEK PLAT" AS RECORDED IN PLAT BOOK 174, PAGE 177 OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA.
 - C) THE PLAT OF "JANIS PLAT" AS RECORDED IN PLAT BOOK 174, PAGE 18 OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA.
 - D) THE PLAT OF "CORRIGAN PLAT" AS RECORDED IN PLAT BOOK 160, PAGE 15 OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA.
 - E) FLORIDA DEPARTMENT OF TRANSPORTATION RIGHT-OF-WAY MAP SECTION 86120-2508, SHEET 4&5 OF 19, LAST DATED 2-5-01.
 - F) THE PLAT OF "SCHOOL SITE 0800" AS RECORDED IN PLAT BOOK 145, PAGE 47 OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA.
 - G) THE PLAT OF "BROADSTONE CYPRESS HAMMOCKS" AS RECORDED IN PLAT BOOK 180, PAGE 40 OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA.
 - H) THE PLAT OF "SECRET POND" AS RECORDED IN PLAT BOOK 170, PAGE 70 OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA.
- 2) NO SUBSURFACE FEATURES WERE LOCATED FOR THE PURPOSES OF THIS SURVEY.
- 3) THE MEASUREMENTS SHOWN HEREON ARE EXPRESSED IN FEET AND DECIMAL PARTS THEREOF.
- 4) HORIZONTAL FEATURES SHOWN HEREON ARE PLOTTED TO WITHIN 1/20th OF THE MAP SCALE.
- 5) HORIZONTAL LOCATION OF FEATURES DEPICTED HEREON IS TO THE CENTER OF THE SYMBOL. SYMBOLS MAY BE AT AN ENLARGED SCALE FOR CLARITY.
- 6) HORIZONTAL AND VERTICAL DATA SHOWN HEREON WAS OBTAINED UTILIZING A 2" TOTAL STATION AND ELECTRONIC DATA COLLECTION SYSTEM.
- 7) THERE MAY BE ADDITIONAL EASEMENTS, RIGHTS-OF-WAY, OR OTHER RESTRICTIONS THAT ARE NOT SHOWN ON THIS SURVEY THAT MAY BE FOUND IN THE PUBLIC RECORDS OF BROWARD COUNTY.
- 8) ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
- 9) BENCHMARK REFERENCE: BROWARD COUNTY BENCHMARK #2969, X-CUT @ THE INTERSECTION OF HILLSBORO BOULEVARD & STATE ROAD 7, ON THE WEST BULLNOSE, NAIL IN SOUTH EDGE OF PAVEMENT OF HILLSBORO BOULEVARD. ELEVATION = 17.18' NAVD 88
- 10) BEARINGS SHOWN HEREON ARE RELATIVE TO THE PLAT "JANIS PLAT", PB 174, PG 18, BCR. REFERENCED BEARING OF N00°24'14"W, ALONG THE WEST LINE OF TRACT "A".
- 10) THIS MAP IS PRODUCED EXCLUSIVELY FOR THE USE OF BROWARD COUNTY.
- 11) NOT VALID WITHOUT THE ORIGINAL RAISED SEAL AND THE SIGNATURE OF A FLORIDA LICENSED SURVEYOR AND MAPPER.
- 12) NOTE THAT NOT ALL TREES HAVE BEEN LOCATED FOR THE PURPOSES OF THIS SURVEY. THIS SURVEY WAS PREPARED FOR THE PURPOSE OF DESIGNING A PARKING AREA IN THE NORTHEAST PORTION OF THE SITE FOR FOR A PARK. TREE LOCATIONS LIMITED TO PERIMETER AND DEVELOPMENT AREA.



LOCATION MAP
NOT TO SCALE

TREE LEGEND

- FICUS
- (UNKNOWN)
- PINE TREE
- OAK
- CABBAGE PALM

SYMBOL LEGEND

- CATCH BASIN
- ANCHOR
- CONCRETE UTILITY POLE
- SANITARY SEWER VALVE
- MAIL BOX
- WATER VALVE
- TRAFFIC CONTROL BOX
- SANITARY MANHOLE
- SIGN
- WOOD UTILITY POLE
- STORM MANHOLE
- SPRINKLER VALVE
- 5.43 SPOT ELEVATION
- FLORIDA POWER & LIGHT
- BENCHMARK
- CONCRETE LAMP
- WOOD LIGHT POLE
- MONITORING WELL

LEGEND

- = CENTERLINE
- = CONCRETE
- = PLAT BOOK
- = OFFICIAL RECORDS BOOK
- = PAGE
- = BROWARD COUNTY RECORDS
- = RIGHT-OF-WAY
- = INVERT
- = UTILITY EASEMENT
- = ELEVATION
- = BENCHMARK
- = BROWARD COUNTY BENCHMARK
- = WITH
- = PALM BEACH COUNTY RECORDS
- = NON-VEHICULAR ACCESS LINE (NVAL)
- = PROFESSIONAL SURVEYOR AND MAPPER

PREPARED FOR:
PARKS & RECREATION DIVISION



PUBLIC WORKS AND TRANSPORTATION DEPARTMENT
HIGHWAY CONSTRUCTION AND
ENGINEERING DIVISION
1 N UNIVERSITY DRIVE, SUITE 300, PLANTATION FL 33324
PHONE: (954) 577-4555 FAX: (954) 357-5715

CERTIFICATION

I HEREBY CERTIFY THAT THIS BOUNDARY AND TOPOGRAPHIC SURVEY AND THE FIELD SURVEY UPON WHICH IT IS BASED ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AS PREPARED UNDER MY DIRECTION AND SUPERVISION. I FURTHER CERTIFY THAT THIS SURVEY MEETS THE APPLICABLE REQUIREMENTS OF THE MINIMUM TECHNICAL STANDARDS FOR LAND SURVEYS IN THE STATE OF FLORIDA (CHAPTER 5J-17 FLORIDA ADMINISTRATIVE CODE) PURSUANT TO SECTION 472.027, FLORIDA STATUTES.

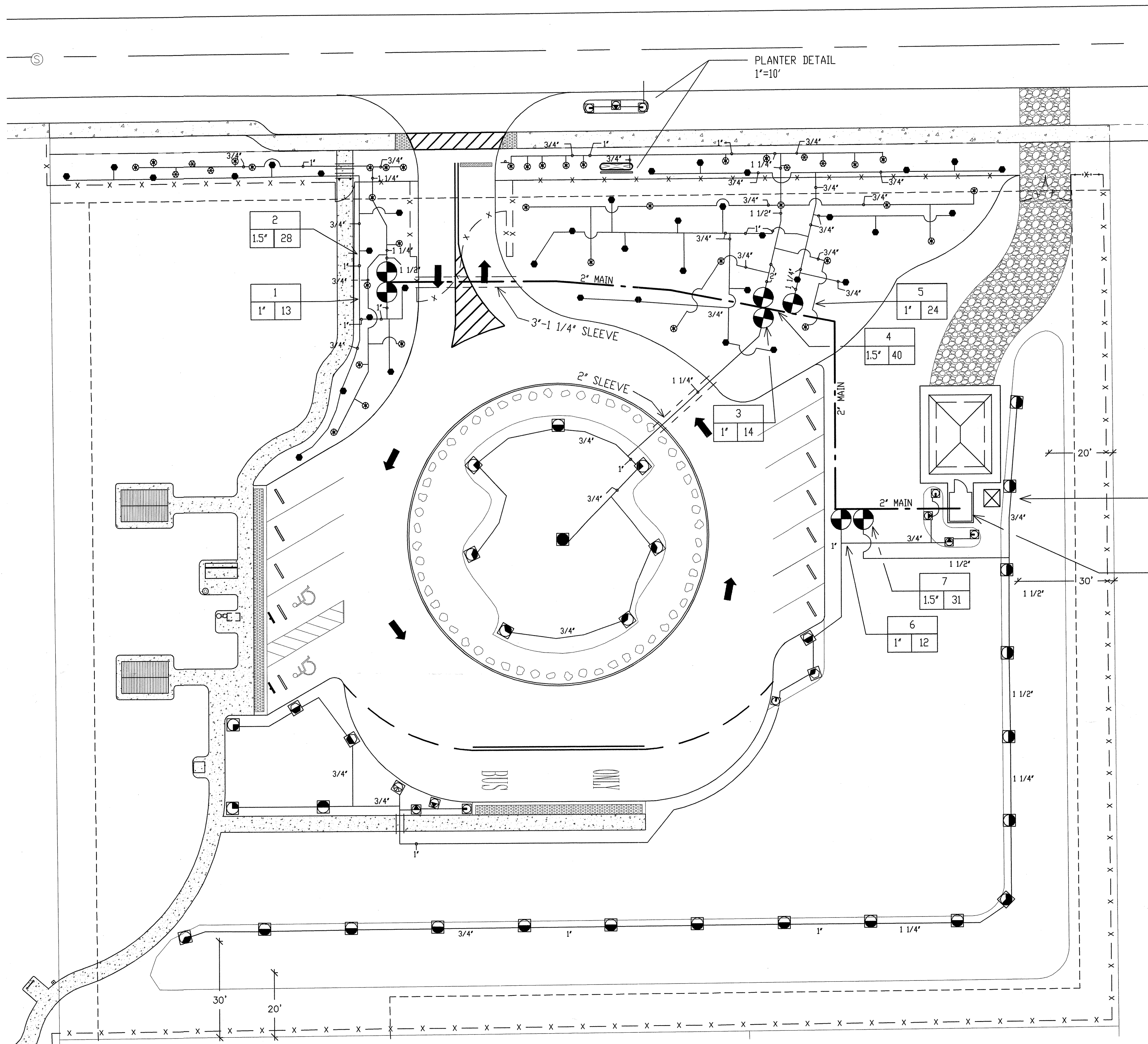
LATEST DATE OF FIELD SURVEY: 9-04-12

ERIC B AUGUSTO, P.S.M.
PROFESSIONAL SURVEYOR AND MAPPER
FLORIDA REGISTRATION NUMBER 5695

DATE

2012-209

SHEET NO.
1 OF 2



NOTE:
 INSTALLATION SHALL CONFORM TO THE FLORIDA BUILDING
 CODE APPENDIX 'F' BROWARD COUNTY MODIFICATIONS

TDR PRECISION MOISTURE
 SENSOR IN GROUND PER
 MANUFACTURERS SPECS

PUMP STATION/CONTROLS:
 SEE DETAIL SHEET I-2
 (ELECTRIC SUPPLY BY OTHERS)

[Handwritten Signature]
 12/19/12

dave bodker
 landscape architecture/planning inc.
 601 n. congress ave., suite 105-n
 delray beach, florida 33445
 561-276-6311
 #LA000099H
 job# 012

Walters • Zackria Associates

ARCHITECTURE • ENGINEERING • PLANNING

ROBERT S. WALTERS, AIA - FL AS 8880
 ROBERT S. ZACKRIA, AIA - FL AS 8880
 A. MARK SCALA, P.E. - FL PE 34553

600 SE 1ST STREET FT. LAUDERDALE FL 33301
 (954) 522-4123 FAX: (954) 522-4128

CONCRETE WORK SHALL BE PERFORMED BY A LICENSED CONTRACTOR IN THE STATE OF FLORIDA. ALL WORK SHALL BE IN ACCORDANCE WITH THE FLORIDA BUILDING CODE AND ALL APPLICABLE LOCAL ORDINANCES. THE CONTRACTOR SHALL VERIFY ALL UTILITIES, CONDITIONS AND DIMENSIONS AND BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED.

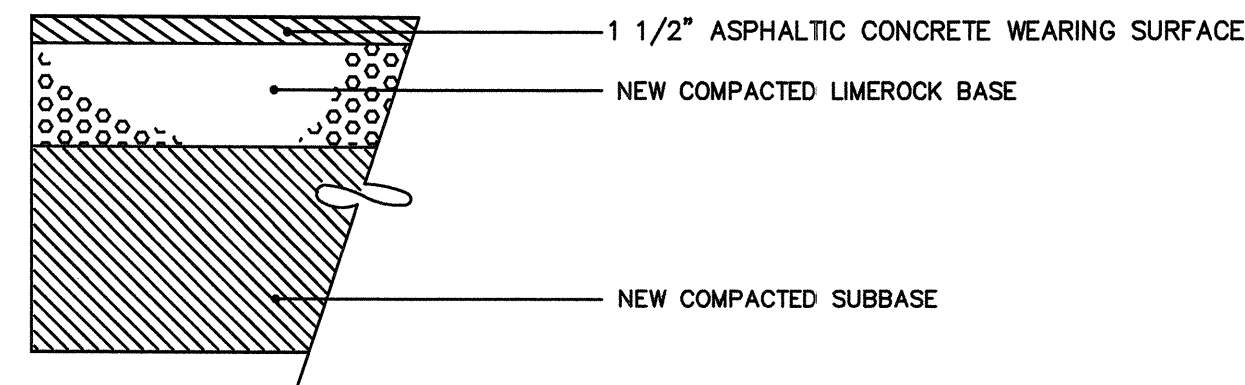
BROWARD COUNTY ENGG. AND HIGHWAY CONST.
 SITE IMPROVEMENTS
 SAW PALMETTO NATURAL AREA
 4950 NW 71ST PL, COCONUT CREEK, FL 33073

DRAWN BY: RJH
 CHECKED BY: RJH
 DATE: 09-10-12

REVISIONS:
 ▲ 9-25-12 PER COUNTY COMMENTS
 ▲ 12-17-12 PER COUNTY COMMENTS

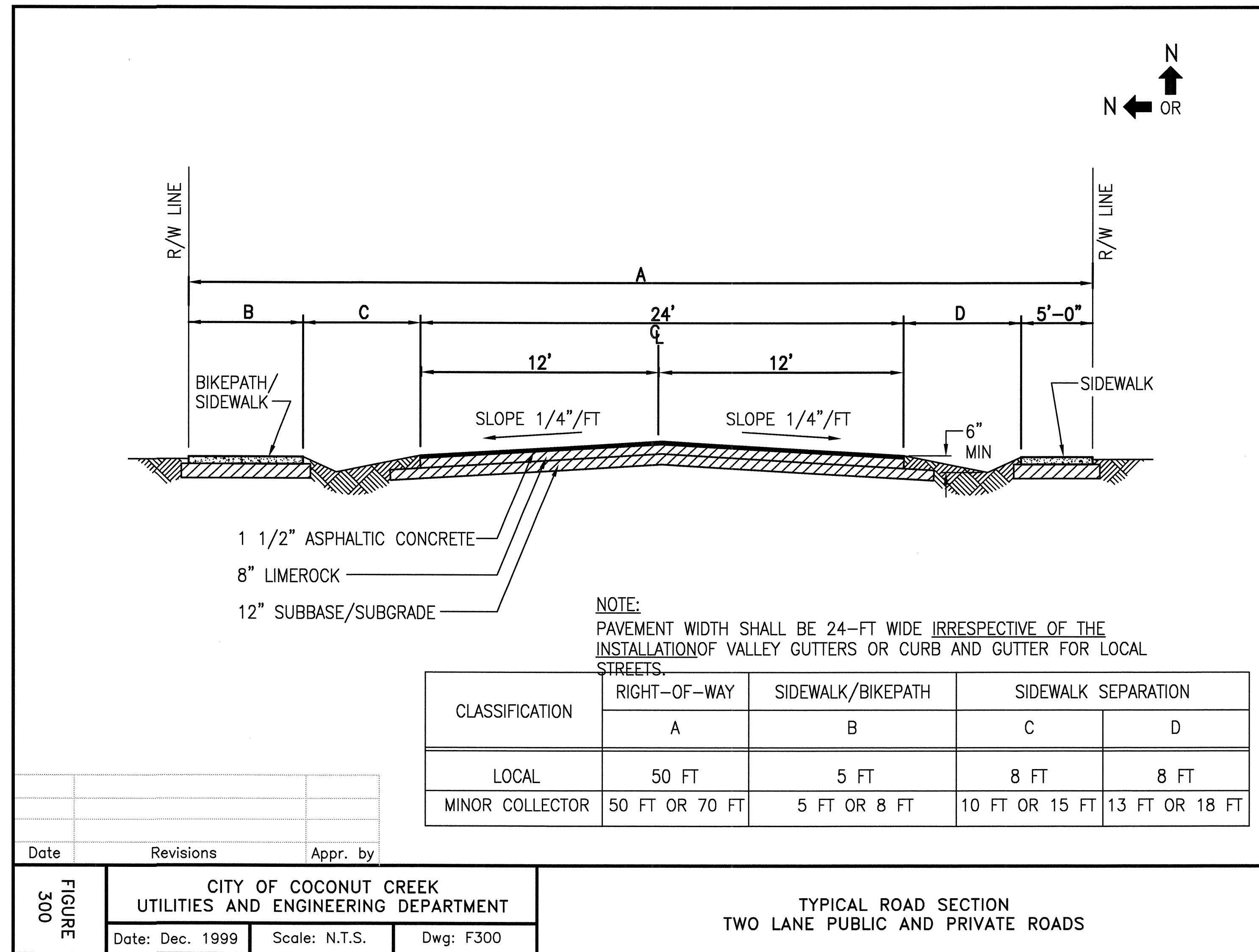
1115-07
 SHEET
 IR1
 IRRIGATION PLAN

NORTH IRRIGATION PLAN
 SCALE: 1" = 20'-0"



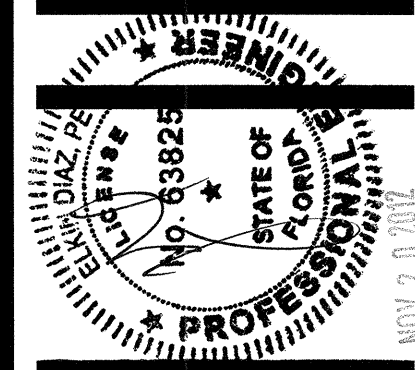
- STANDARD ASPHALTIC CONCRETE VEHICULAR SURFACE COURSE : 1 1/2" ASPHALTIC CONCRETE WEARING SURFACE, F.D.O.T. TYPE S-III. INSTALL IN TWO LIFTS IN ALL AREAS. SURFACE COURSE SHALL CONFORM TO THE REQUIREMENTS OF F.D.O.T. STANDARD SPECIFICATIONS SECTIONS 330 & 331.
- PRIME & TACK COAT : TACK COAT FOR THE EXISTING ASPHALT SHALL CONFORM TO THE REQUIREMENTS OF F.D.O.T. STANDARD SPECIFICATIONS SECTION 300. APPLICATION RATES - TACK COAT-0.08 GALLONS PER SQ. YD.
- STANDARD BASE : 8" LIMEROCK BASE COMPACTED TO 98% OF MAXIMUM DENSITY (AASHTO T-180). PLACED IN 2-4" LIFTS PER ALL REQUIREMENTS OF F.D.O.T. SPECIFICATION SECTIONS 200 & 911. MINIMUM L.B.R. = 100.
- SUBBASE : 12" SUBBASE COMPACTED TO 98% OF MAXIMUM DENSITY (AASHTO T-180). PLACED IN 2-6" LIFTS, MINIMUM L.B.R. = 50.
- NOTE : GROUND ADJACENT TO PAVEMENT HAVING RUNOFF SHALL BE GRADED TWO INCHES LOWER THAN THE EDGE OF PAVEMENT TO ALLOW FOR THE PLACEMENT OF SOD.

NEW ASPHALT PAVEMENT DETAIL
N.T.S.



Date	Revisions	Appr. by

FIGURE 300	CITY OF COCONUT CREEK UTILITIES AND ENGINEERING DEPARTMENT		TYPICAL ROAD SECTION TWO LANE PUBLIC AND PRIVATE ROADS
	Date: Dec. 1999	Scale: N.T.S.	

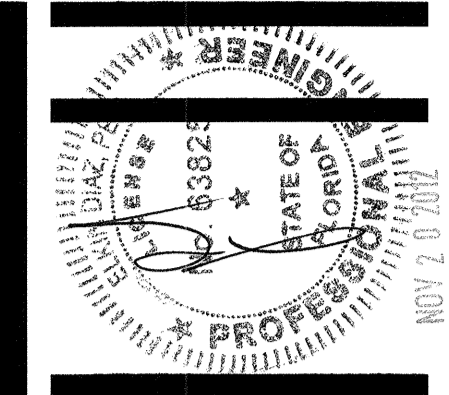
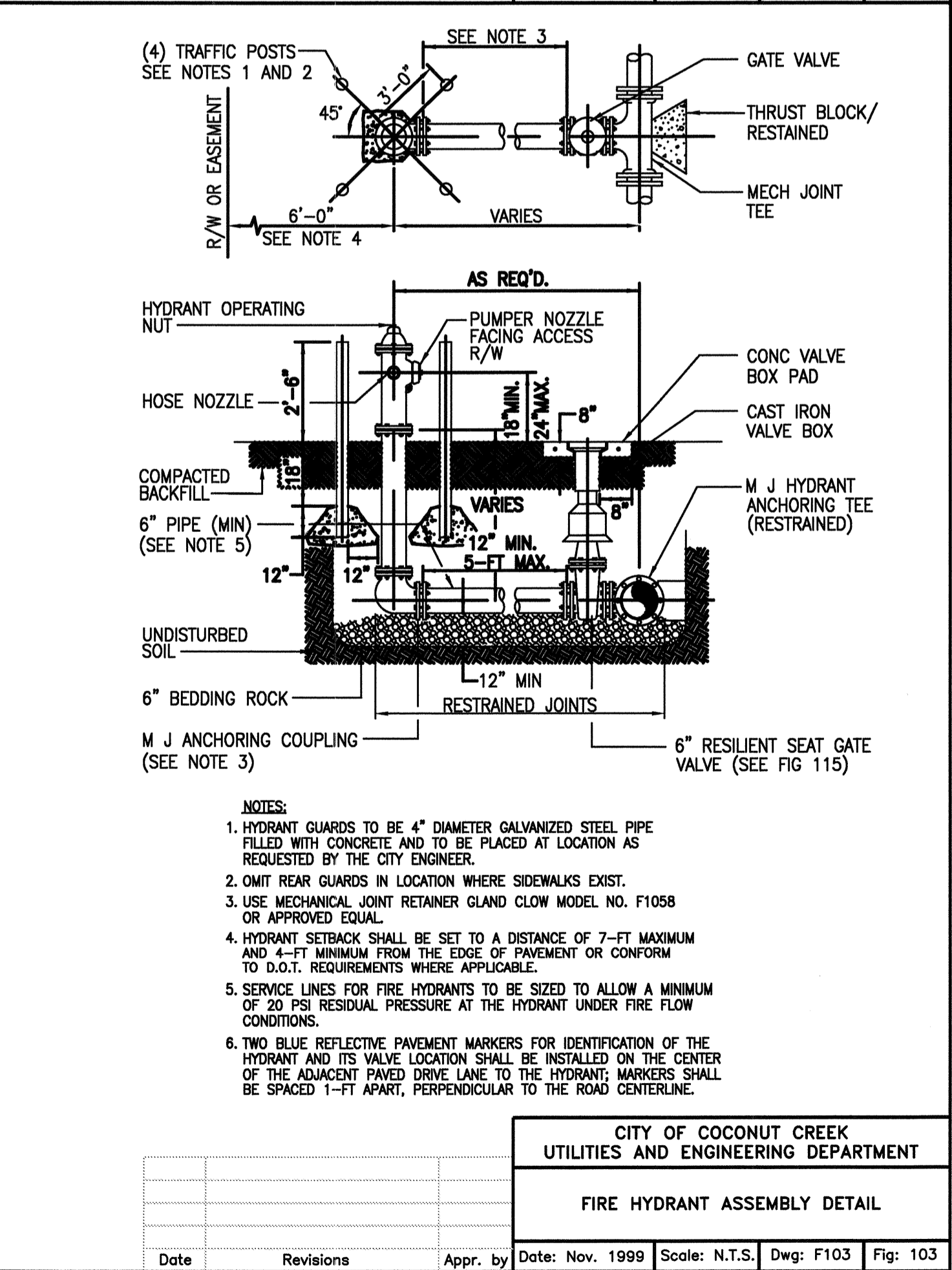
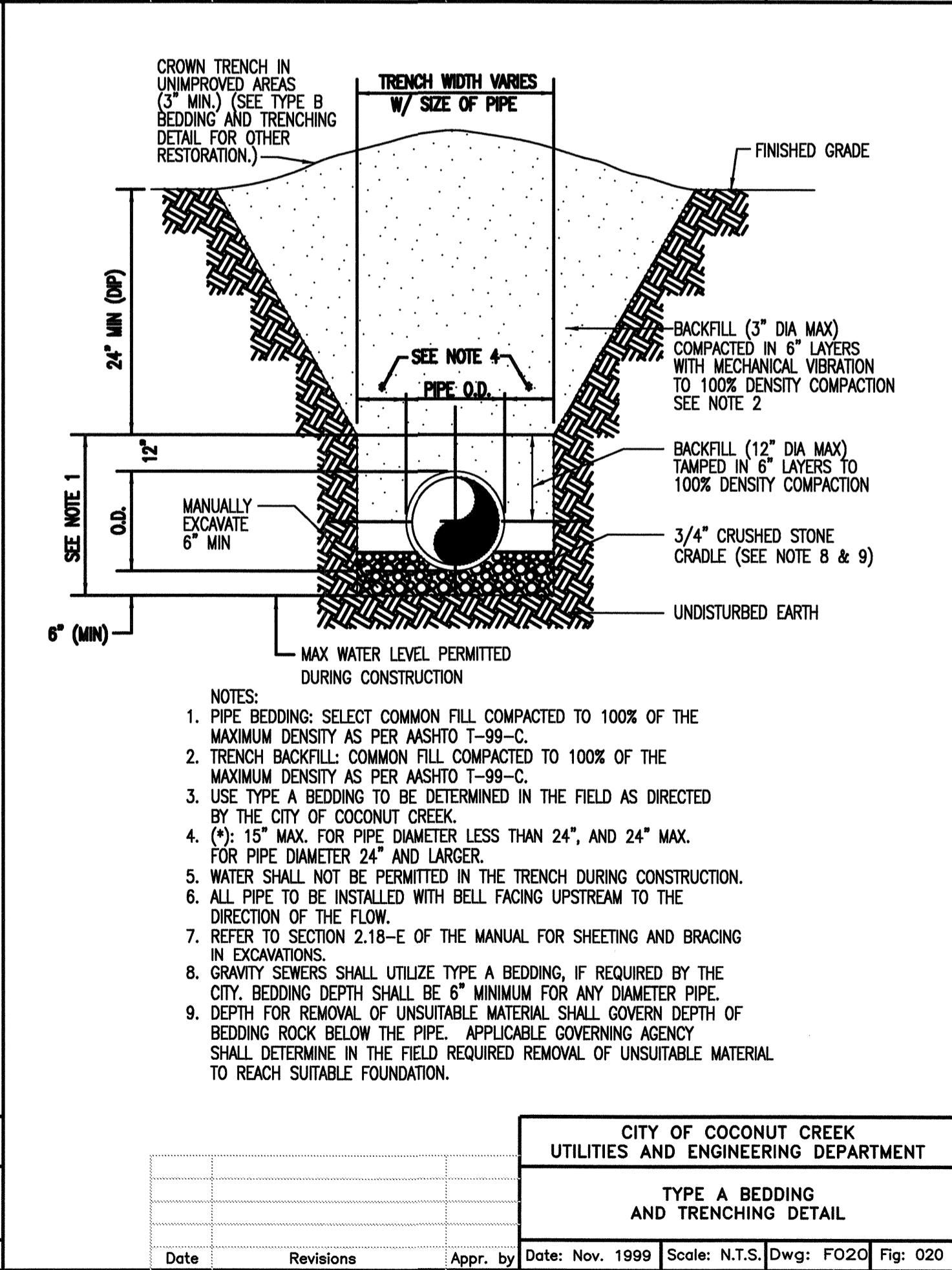
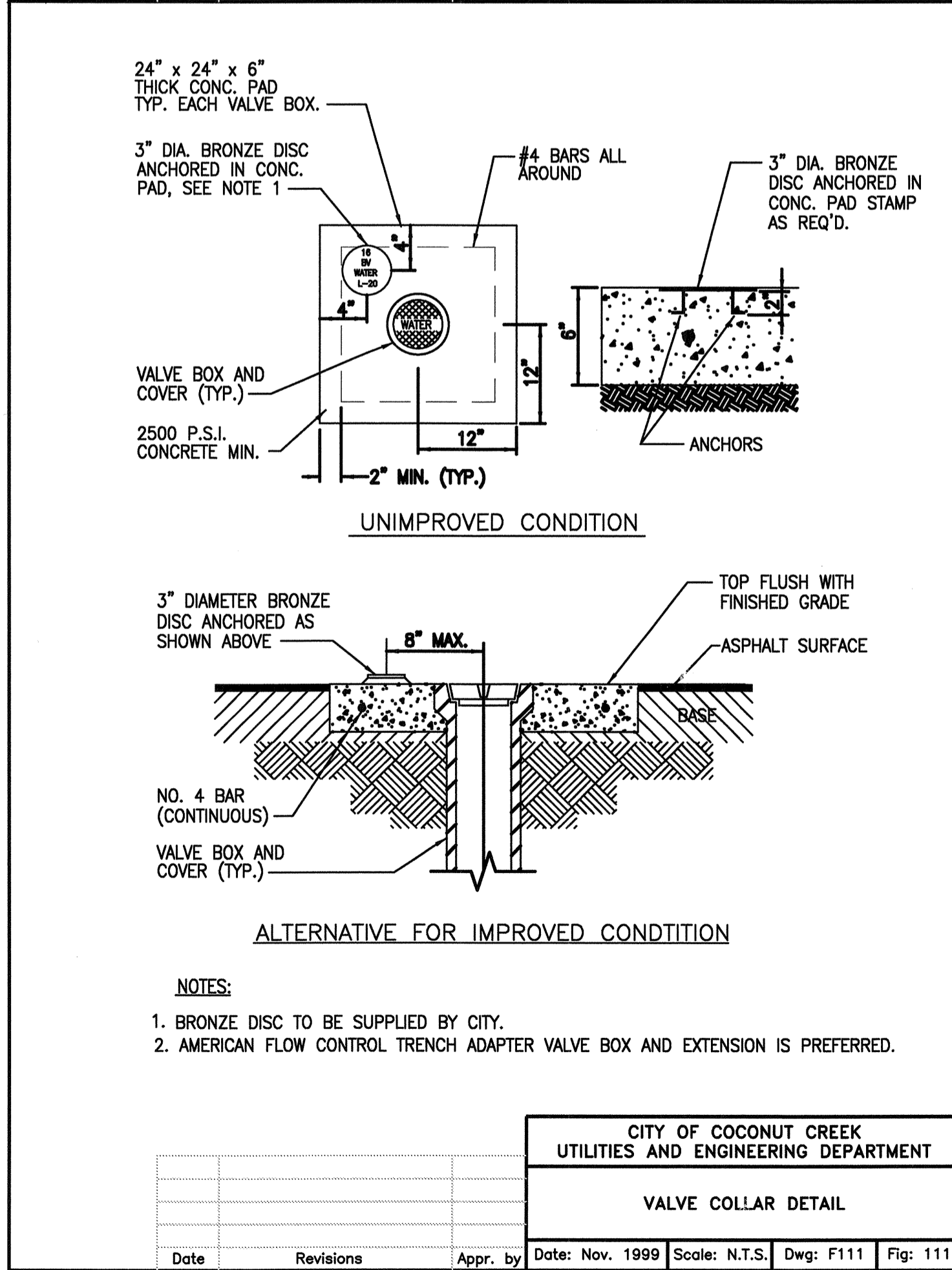
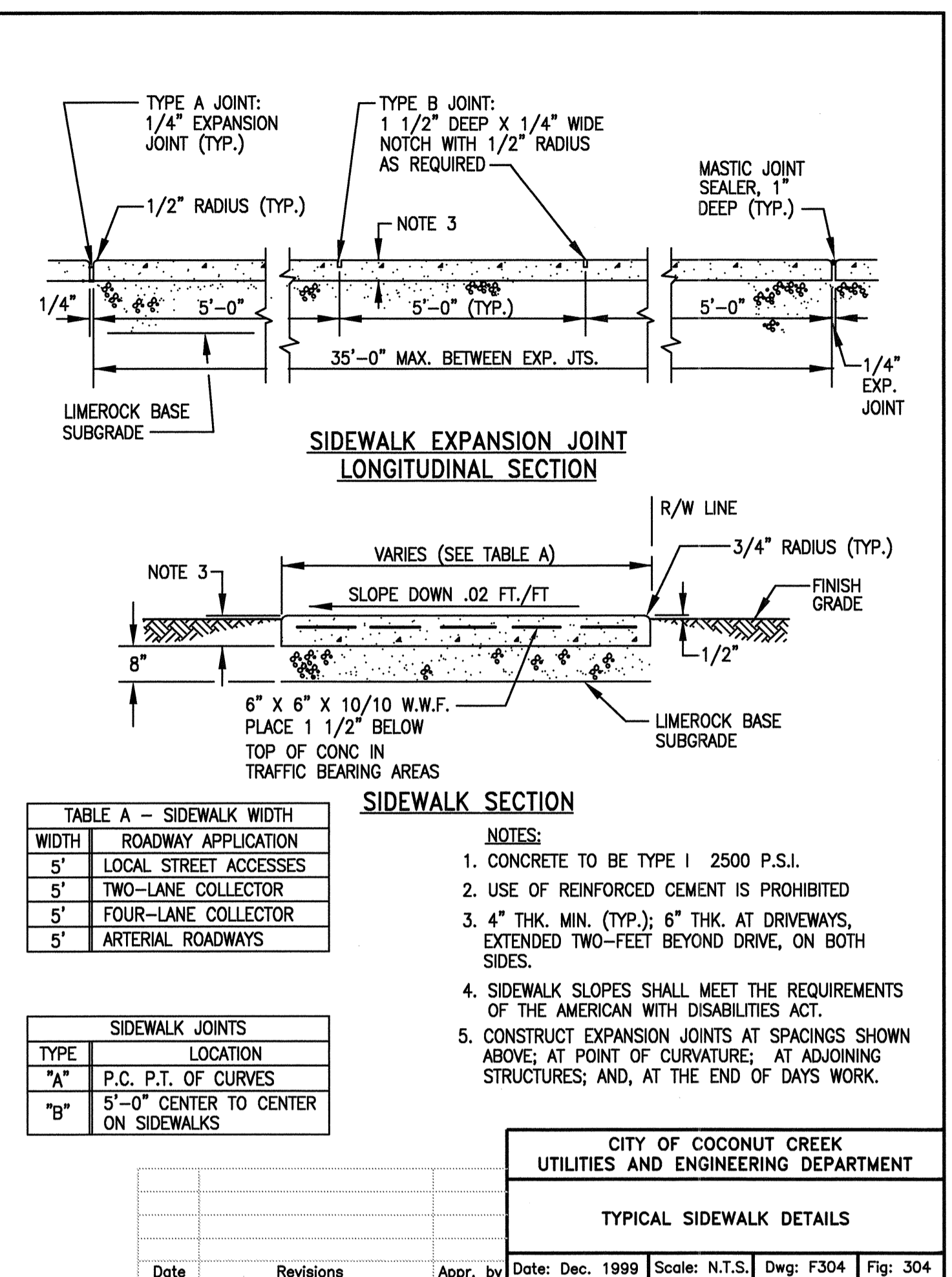
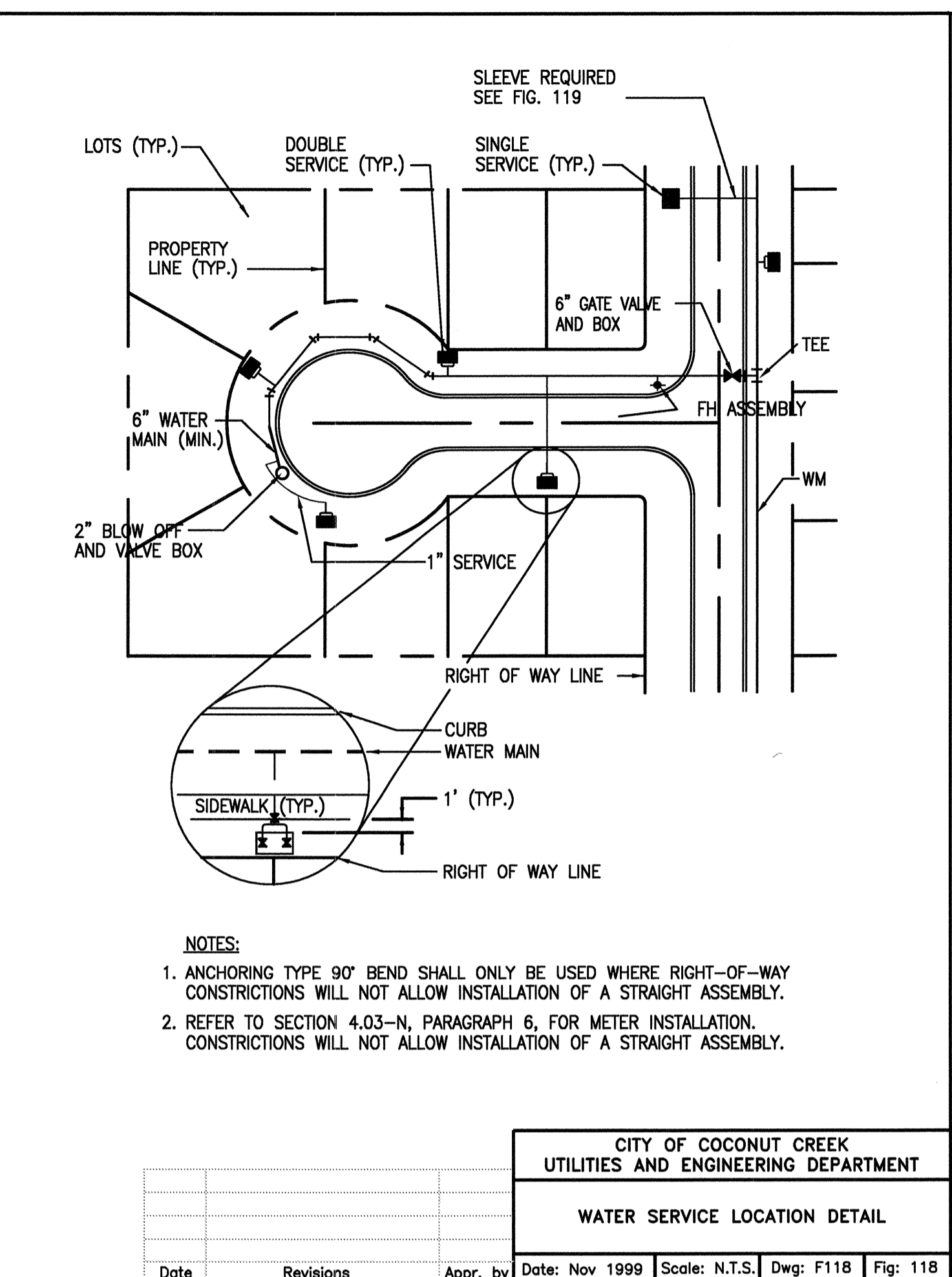
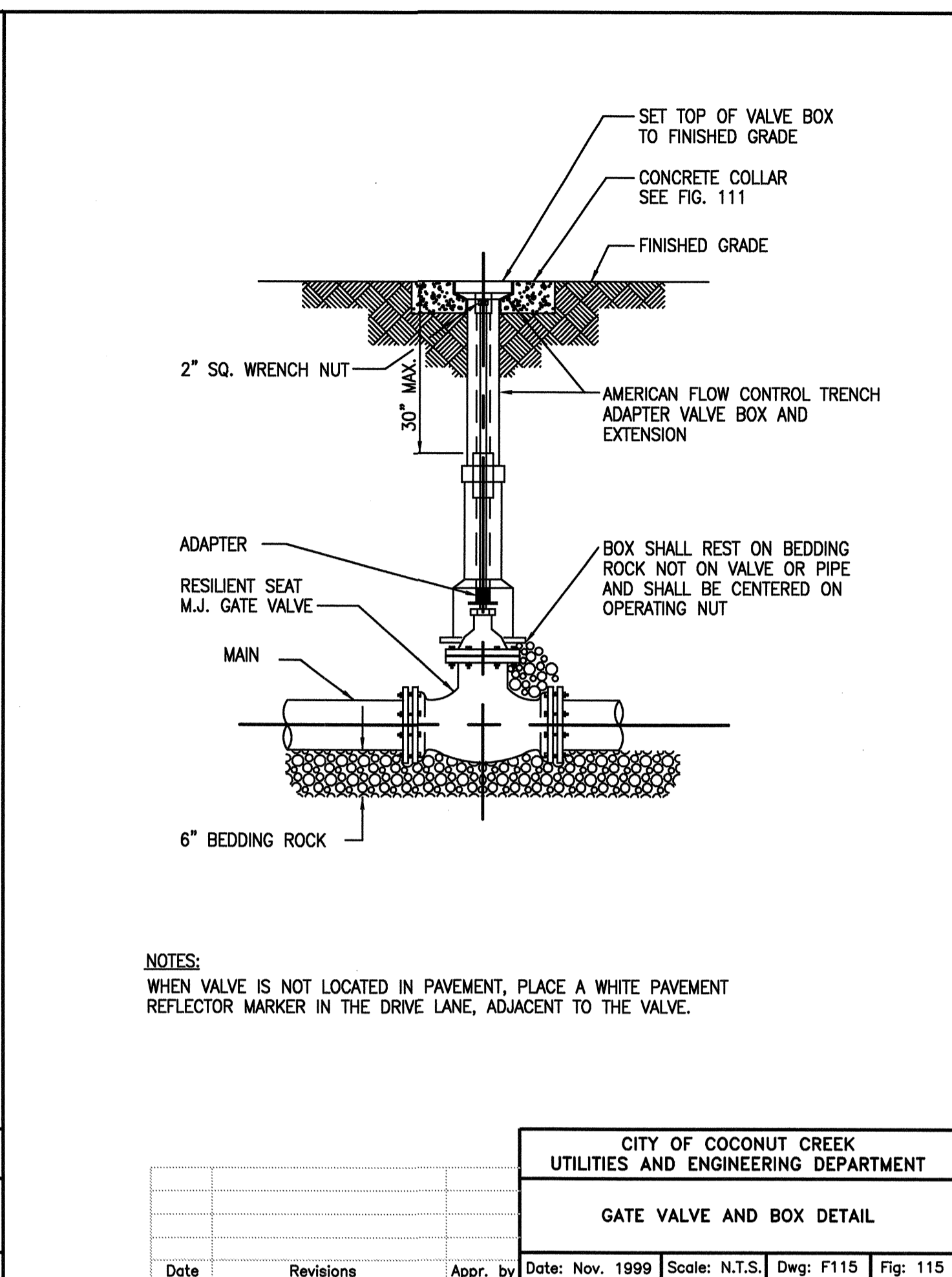
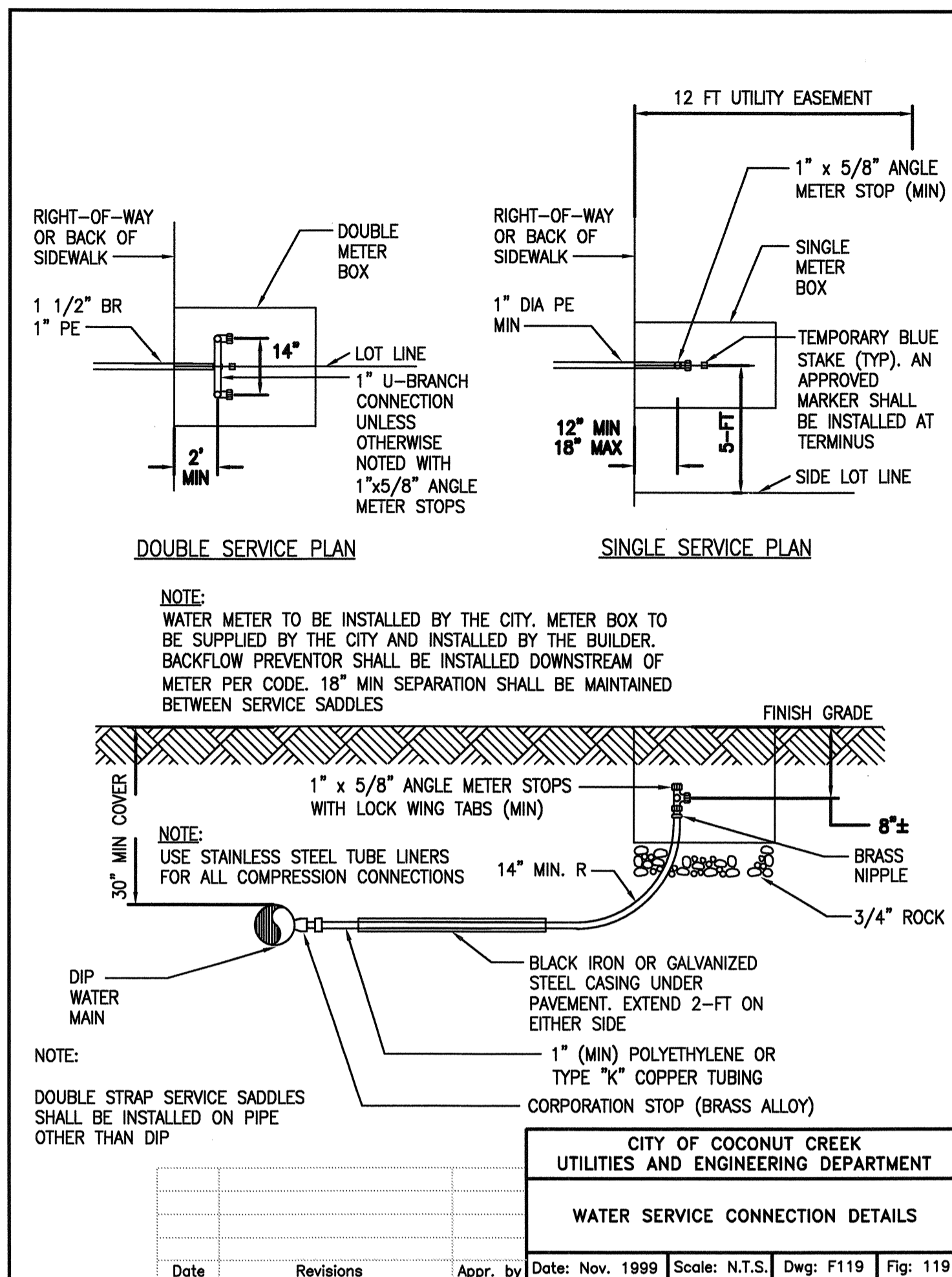


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CORPORATE OFFICE: 4950 NW 71ST PL, COCONUT CREEK, FL 33073
WALTERS AND ZACKRIA ASSOCIATES, INC. IS AN EQUAL OPPORTUNITY AFFIRMATIVE ACTION EMPLOYER. ALL CONTRACTS, CONDITIONS AND SPECIFICATIONS SHALL BE SUBJECT TO THE DISCRETION OF THE ARCHITECT.

BROWARD COUNTY ENGG. AND HIGHWAY CONST.
SITE IMPROVEMENTS
SAW PALMETTO NATURAL AREA
4950 NW 71ST PL, COCONUT CREEK, FL 33073

DRAWN BY: ED
CHECKED BY: ED
DATE: 06-28-12
REVISIONS:
12-18-2012 DRC CDMM

1115-07
SHEET
C5
CIVIL DETAILS



Walters • Zackria Associates

ARCHITECTURE • ENGINEERING • PLANNING

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BROWARD COUNTY ENG. AND HIGHWAY CONST.

SITE IMPROVEMENTS

SAW PALMETTO NATURAL AREA

4950 NW 71ST PL, COCONUT CREEK, FL 33073

DRAWN BY: ED
 CHECKED BY: ED
 DATE: 06-28-12

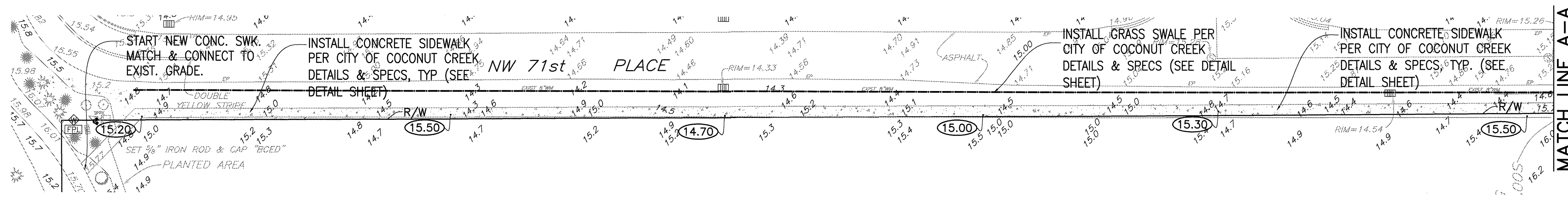
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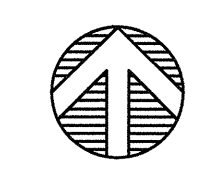
C4

CIVIL DETAILS



WEST SIDEWALK PLAN

SCALE: 1" = 30'



ENGINEER DISCLAIMER NOTE:
IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE NEW LAYOUT FROM THE ARCHITECT'S PLAN. THIS PLAN SHALL ONLY BE USED FOR PAVING, GRADING AND DRAINAGE WORK.

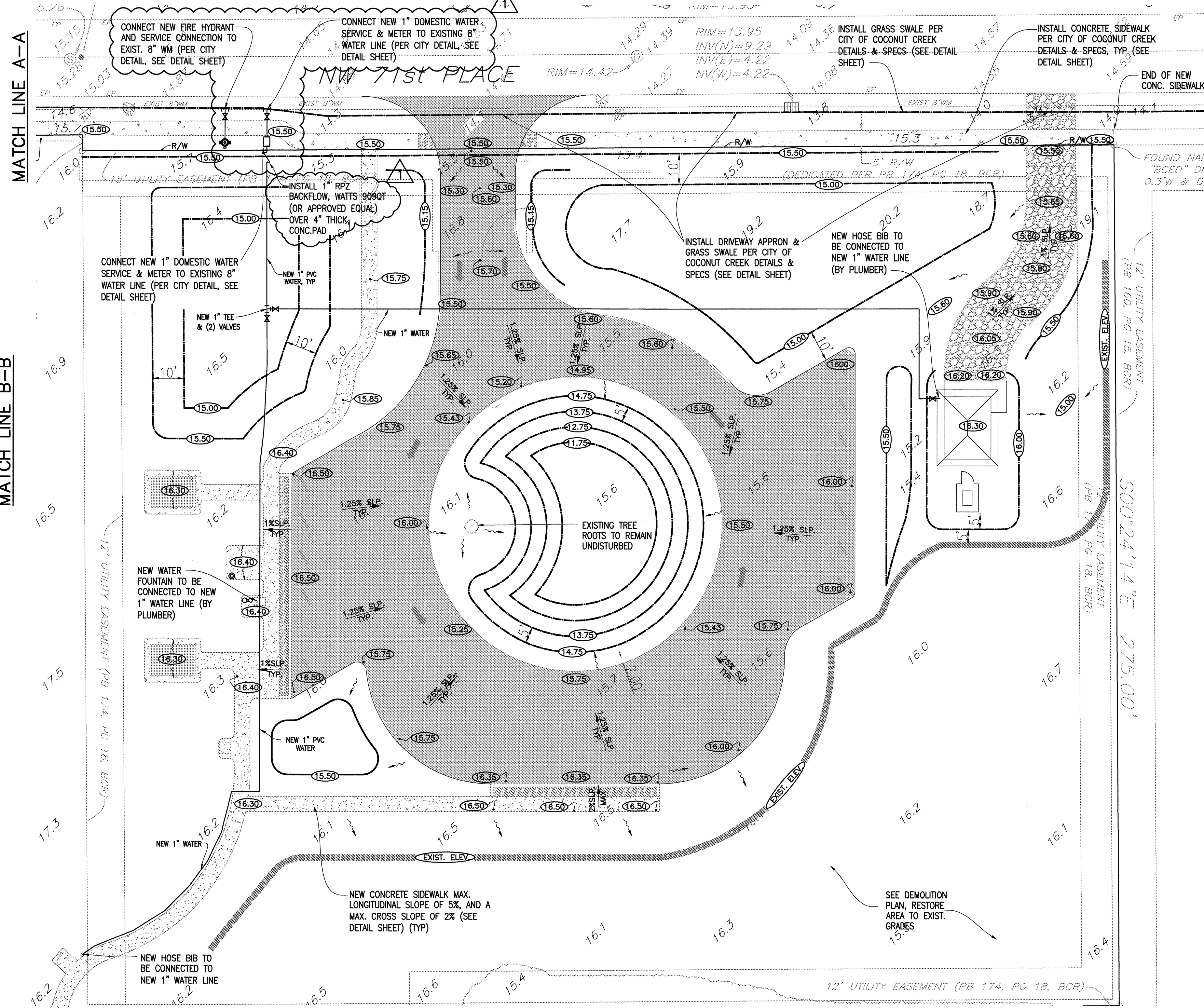
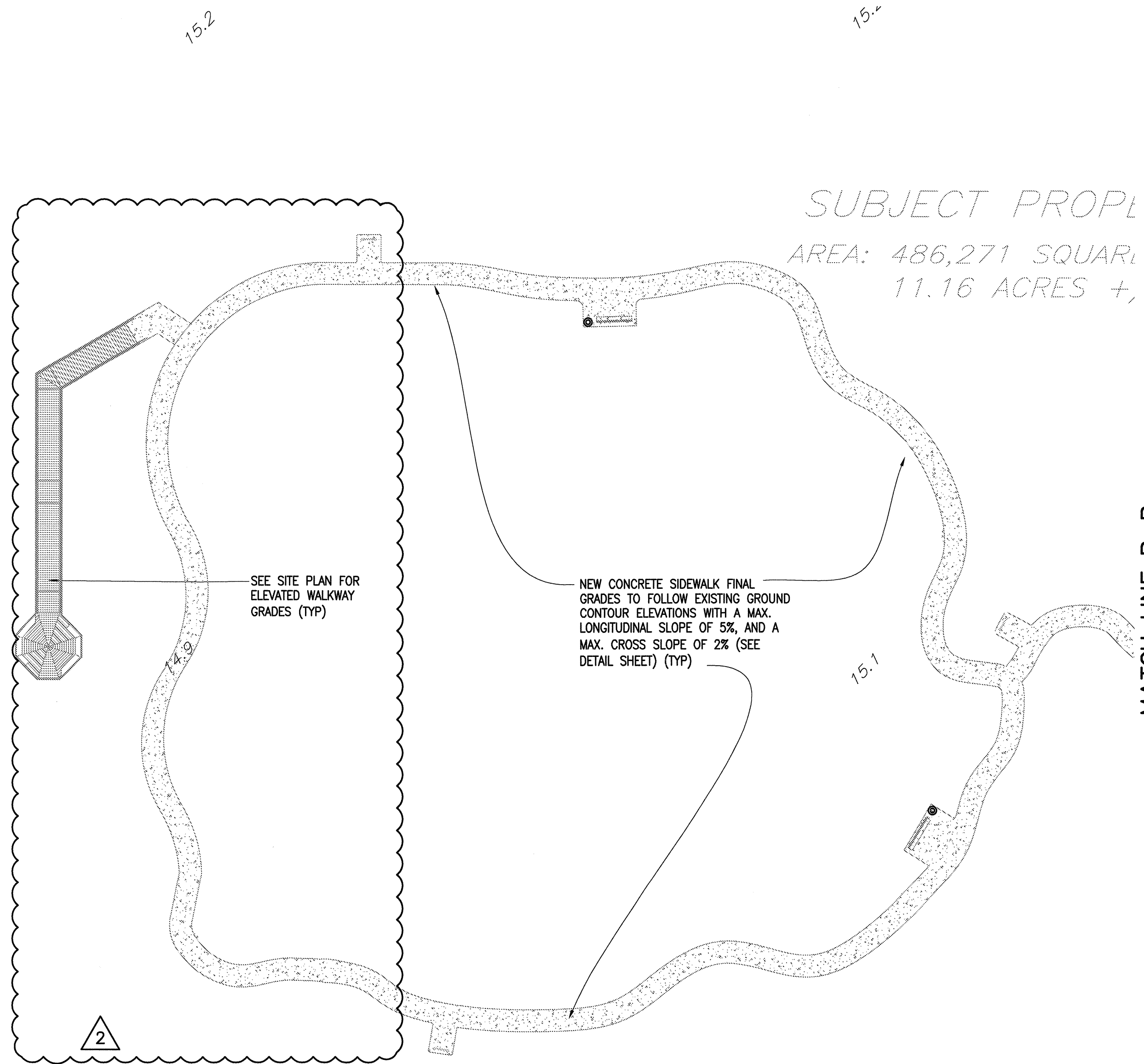
LEGEND

- LIMITS OF NEW GRADING, MATCH EXISTING ELEVATIONS
- 0.00' EXISTING GRADE ELEVATIONS
- 0.00' NEW GRADE ELEVATIONS
- 0.00' NEW GRADE CONTOURS
- DIRECTION OF PROPOSED STORM RUNOFF
- ▨ NEW CONCRETE WALKWAYS
- ▨ NEW 8" LIMEROCK DRIVEWAY OVER 12" COMPACTED SUBGRADE
- ▨ NEW 1-1/2" ASPHALT, 8" LIME-ROCK BASE & 12" COMPACTED SUBGRADE

ALL GRADE ELEVATIONS ARE BASED ON SURVEY'S NAVD 88 NORTH AMERICAN VERTICAL DATUM

2 FULL BUSINESS DAYS BEFORE DIGGING CALL TOLL FREE 1-800-432-4770 SUNSHINE STATE ONE CALL OF FLORIDA, INC. NOTIFICATION CENTER

ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE TO BE CONSIDERED APPROXIMATE & SHOULD BE VERIFIED BY THE CONTRACTOR PRIOR TO THE START OF WORK OPERATIONS.



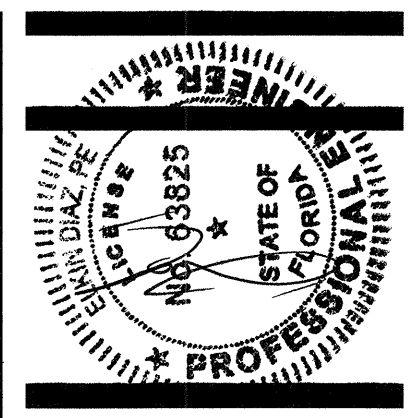
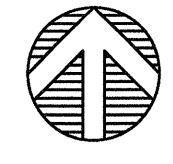
PARKING PLAN

SCALE: 1" = 20'



BOARD WALK PLAN

SCALE: 1" = 20'



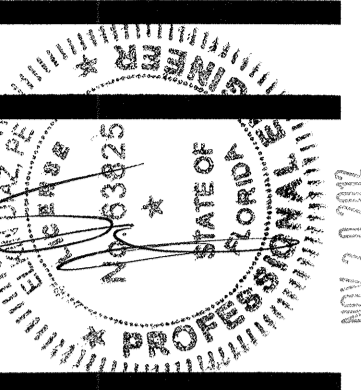
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BROWARD COUNTY ENG + HWY CONST DIVISION
SITE IMPROVEMENTS
SAW PALMETTO NATURAL AREA
4950 NW 71st PLACE, COCONUT CREEK, FL 33073

DRAWN BY: ED
CHECKED BY: ED
DATE: 11/1/2012
REVISIONS:
▲ 12/15/12 DRC COMM
▲ 12/15/12 GEN COORD

1115-07
SHEET
C-3
CIVIL PLAN

NOV 7 2012



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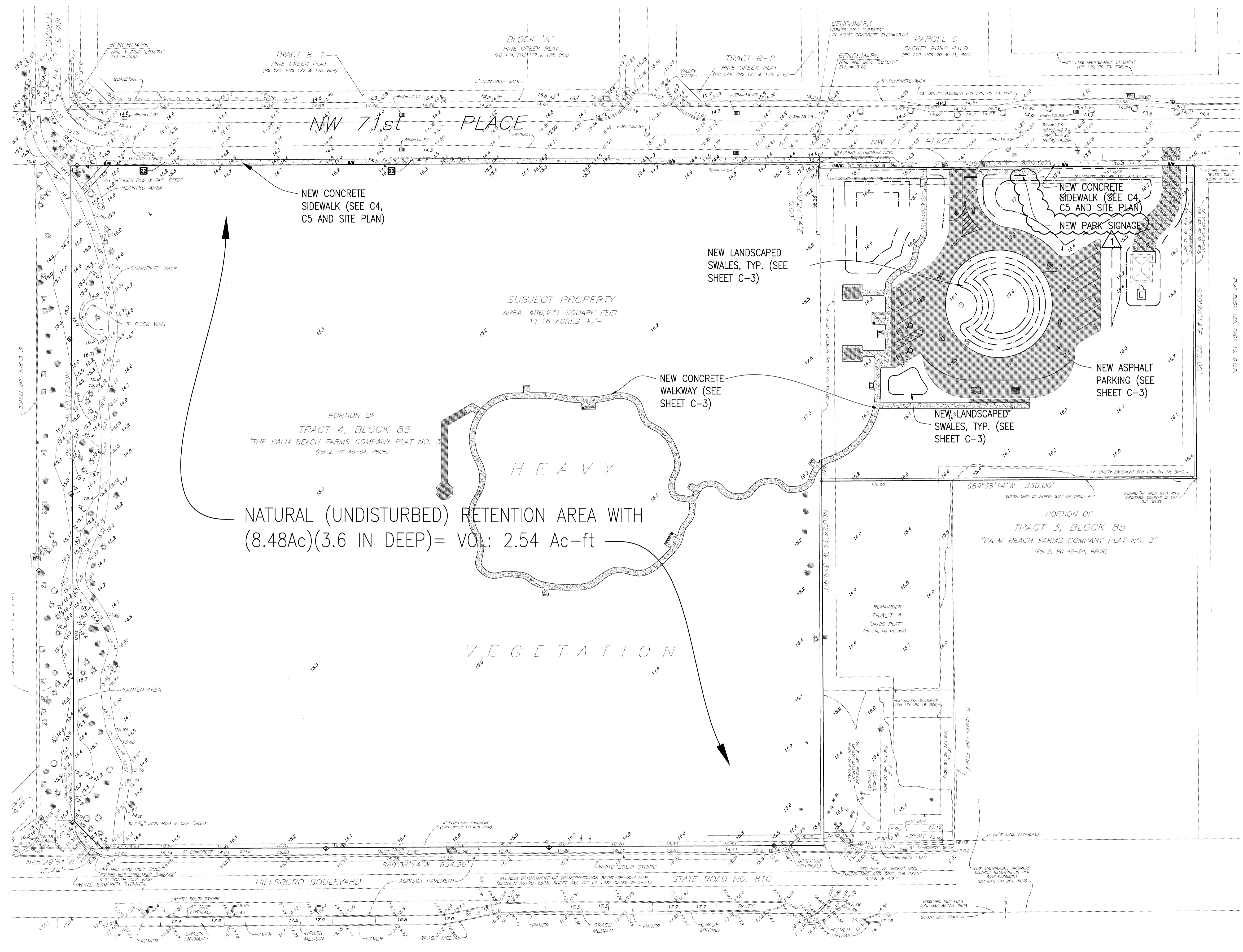
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BROWARD COUNTY ENG + HWY CONST DIVISION

SITE IMPROVEMENTS

SAW PALMETTO NATURAL AREA
4950 NW 71st PLACE, COCONUT CREEK, FL 33073



NEW CONCRETE SIDEWALK (SEE C4, C5 AND SITE PLAN)

NEW LANDSCAPED SWALES, TYP. (SEE SHEET C-3)

NEW CONCRETE SIDEWALK (SEE C4, C5 AND SITE PLAN)

NEW PARK SIGNAGE

NEW ASPHALT PARKING (SEE SHEET C-3)

NEW CONCRETE WALKWAY (SEE SHEET C-3)

NEW LANDSCAPED SWALES, TYP. (SEE SHEET C-3)

NATURAL (UNDISTURBED) RETENTION AREA WITH (8.48Ac)(3.6 IN DEEP)= VOL: 2.54 Ac-ft

ALL GRADE ELEVATIONS ARE BASED ON SURVEY'S NAVD 88 NORTH AMERICAN VERTICAL DATUM

2 FULL BUSINESS DAYS BEFORE DIGGING CALL TOLL FREE 1-800-432-4770 SUNSHINE STATE ONE CALL OF FLORIDA, INC. NOTIFICATION CENTER

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LEGEND

	LIMITS OF NEW GRADING, MATCH EXISTING ELEVATIONS
	EXISTING GRADE ELEVATIONS
	NEW GRADE ELEVATIONS
	NEW GRADE CONTOURS
	DIRECTION OF PROPOSED STORM RUNOFF
	NEW CONCRETE WALKWAYS
	NEW 8" LIMEROCK BASE DRIVEWAY OVER 12" COMPACTED SUBGRADE
	NEW 1-1/2" ASPHALT, 8" LIMEROCK BASE & 12" COMPACTED SUBGRADE

DRAINAGE PLAN
SCALE: 1" = 40'
NORTH

1115-07
SHEET
C-2
DRAINAGE PLAN

CONSTRUCTION NOTES:

THE FOLLOWING NOTES SHALL BE APPLIED TO THE LIMITS OF THE SCOPE OF WORK PERTINENT TO THE PROJECT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASK THE ENGINEER OF RECORD AND THE OWNER ABOUT WHICH SPECIFICATIONS ARE APPLICABLE TO THE CONTRACT.

GENERAL:

1) IT'S THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN AND FOLLOW THE REQUIREMENTS OF ALL REGULATORY AGENCIES AS WELL AS THE HEALTH ACT OF 1970 AND STATE AND LOCAL SAFETY AND HEALTH REGULATIONS.

2) ALL CONSTRUCTION, MATERIALS AND INSPECTIONS SHALL COMPLY WITH CURRENT STANDARDS AND SPECIFICATIONS OF THE LOCAL CITY, LOCAL COUNTY ENGINEERING "MINIMUM STANDARDS", FLORIDA DEPARTMENT OF TRANSPORTATION, AND THE DEPARTMENT OF ENVIRONMENTAL PROTECTION --- AS IT IS APPLICABLE TO THE PROJECT. CONTRACT DOCUMENTS AND CITY SPECS SHALL GOVERN IN CASE THERE IS ANY CONFLICT WITH THE PLAN OR ENGINEERING CONSTRUCTION NOTES.

3) THE CONTRACTOR MUST USE EXTREME CARE TO AVOID DAMAGE OR DISRUPTION TO ANY EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT. ALL PLAN LOCATIONS ARE APPROXIMATE AND SHALL BE FIELD VERIFIED. CONTRACTOR IS TO CONTACT SUNSHINE STATE ONE CALL OF FLORIDA AT 1-800-432-4770 AND ALL OTHER PARTICIPATING UTILITIES 2 FULL BUSINESS DAYS PRIOR TO CONSTRUCTION FOR FIELD MARKUP LOCATIONS OF EXISTING UTILITIES AND FACILITIES.

4) IF ANY CONFLICT IS DISCOVERED DURING POT HOLE OPERATIONS, THE CONTRACTOR MUST INFORM THE OWNER AND THE ENGINEER OF RECORD AT LEAST 48 HOURS IN ADVANCE OF CONSTRUCTION & IN WRITING FOR CONFLICT CLARIFICATION.

5) IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE UTILITIES DEPARTMENT OF THE CITY AT LEAST TWO (2) BUSINESS DAYS IN ADVANCE TO COORDINATE ANY ACTIVITY TO BE PERFORMED BY THE CITY'S UTILITIES DEPARTMENT.

6) ALL HANDICAP ACCESSIBLE AREAS SHALL CONFORM TO THE AMERICAN DISABILITIES ACT REQUIREMENTS---LATEST EDITION.

7) IN GENERAL, EXISTING STRUCTURES AND UTILITIES ARE NOTED AS EXISTING AND/OR SHOWN IN THIN LINES. NEW CONSTRUCTION IS IN HEAVY LINES AND/OR UNDERLINED.

8) ALL WORK WITHIN LOCAL COUNTY RIGHT-OF-WAYS SHALL BE IN CONFORMANCE WITH THE COUNTY MINIMUM STANDARDS AND/OR REQUIREMENTS--- AS APPLICABLE.

9) CONTRACTOR SHALL COMPLY WITH ALL LOCAL CITY, COUNTY AND STATE REGULATIONS PERTAINING TO THE CLOSING OF PUBLIC STREETS FOR USE OF TRAFFIC DURING CONSTRUCTION.

10) CONTRACTOR SHALL PREPARE AND SUBMIT MAINTENANCE OF TRAFFIC (MOT) PLANS TO FDOT, CITY, LOCAL COUNTY AS REQUIRED FOR WORK TO BE DONE WITHIN THEIR R/W PRIOR TO COMMENCEMENT OF WORK. SPECIFIC AGENCY MOT REQUIREMENTS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AS APPLICABLE TO THE PROJECT.

11) ALL UTILITIES AND DRAINAGE INSTALLATIONS UNDER PROPOSED PAVEMENT SHALL BE COMPLETED AND INSPECTED SATISFACTORILY BY REGULATORY INSPECTOR PRIOR TO STARTING PAVEMENT SUBGRADE CONSTRUCTION--- IF APPLICABLE.

12) ALL TRENCH EXCAVATION SHALL FOLLOW CHAPTER 90--96 OF THE FLORIDA TRENCH SAFETY ACT AND O S H A STANDARDS.

13) ALL OPEN TRENCHES AND HOLES ADJACENT TO ROADWAY OR WALKWAY SHALL BE PROPERLY MARKED AND BARRICADED TO ASSURE THE SAFETY OF BOTH VEHICULAR AND PEDESTRIAN TRAFFIC.

14) TRENCHES OR HOLES NEAR WALKWAYS, IN ROADWAYS OR THEIR SHOULDERS SHALL NOT BE LEFT OPEN DURING NIGHT TIME HOURS WITHOUT ADEQUATE PROTECTION.

15) CONTRACTOR SHALL PROMPTLY REPAIR AND RESTORE EXISTING PAVEMENT, SIDEWALKS, CURBS, DRIVEWAYS, PIPES, SPRINKLER LINES, CONDUIT, CABLES, SURVEY BENCHMARKS, AND LANDSCAPE AREAS DAMAGED AS A RESULT OF ANY AND ALL CONSTRUCTION ACTIVITIES.

16) LOCATION AND SIZE OF EXISTING UTILITIES ARE OBTAINED FROM BEST AVAILABLE RECORDS. ENGINEER IS NOT RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF THIS INFORMATION. CONTRACTOR IS RESPONSIBLE TO LOCATE HOR AND VERTICAL LOCATIONS PRIOR TO START CONSTRUCTION.

17) CONTRACTOR SHALL COORDINATE WATER & SEWER CONNECTIONS, TEMPORAL DISCONNECTS, AND CONSTRUCTION SCHEDULE WITH UTILITY DEPARTMENT THAT OWNS AND MAINTAINS THESE UTILITY LINES.

INSPECTIONS / TESTING

1) CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER OF RECORD WITH (2) DAYS PRIOR TO START CONSTRUCTION OF THE FOLLOWING ACTIVITIES AS APPLICABLE TO THE PROJECT: A) CLEARING AND EARTHWORK, B) STORM DRAINAGE, WATER & SEWER, C) SUBGRADE, D) LIMEROCK BASE, E) ASPHALT OR CONCRETE, F) SIDEWALKS

2) CONTRACTOR SHALL PROVIDE TESTING PER CONTRACT DOCUMENTS

SHOP DRAWINGS AND ASBUILTS DOCUMENTS

1) SIX (6) SETS OF SHOP DRAWINGS SHALL BE REVIEWED AND APPROVED BY THE ENGINEER OF RECORD FOR THE FOLLOWING: WATER, SEWER, FORCEMAIN, STORM DRAINAGE PIPE MATERIAL, FITTINGS, MANHOLES, BASINS, REQUIRED ACCESSORIES, LIFT/PUMP STATION EQUIPMENT, FIRE HYDRANTS, VALVES, ETC.

2) CONTRACTOR SHALL PROVIDE THE ENGINEER OF RECORD A SET OF ASBUILTS FOR ALL INFRASTRUCTURE AND SURFACE CONSTRUCTION:

3) LIMEROCK BASE ASBUILTS: CONTRACTOR SHALL PROVIDE FINAL ROCK BASE ELEVATIONS AT ALL HIGH AND LOW POINTS, INTERMEDIATE POINTS, GRADED POINTS SHOWN ON PLANS, ELEVATIONS AROUND ISLANDS, ROAD CROWNS, INVERTED CROWNS, EDGE OF PAVEMENT.

4) ASBUILTS OF DRAINAGE SYSTEM SHALL INCLUDE: RIMS ELEV, INVERTS ELEV, LENGTH OF PIPE BETWEEN STRUCTURES, WEIR ELEVATIONS, SURVEY CREW TO VERIFY SIZE OF PIPE ELEVATIONS, BAFFLES, WALL ELEV, LAKE AND CANAL TOP AND BOTTOM OF BANK ELEVATIONS, EDGE OF WATER ELEV, RETENTION OR SWALE BOTTOM ELEVATIONS AND COUNTOUR ELEVATIONS.

5) ALL ASBUILTS SHALL BE SIGNED AND SEALED BY A FLORIDA REGISTERED PROFESSIONAL LAND SURVEYOR.

EARTHWORK

1) CONTRACTOR SHALL CLEAR AND GRUBB ALL AREAS NOTED ON PLANS AS NEW ASPHALT, NEW CONCRETE, NEW FENCES, NEW SIDEWALKS, ETC. REMOVE ALL EXISTING TREES ROOTS, VEGETATION, UNSUITABLE MATERIALS TO A DEPTH OF AT LEAST ONE FOOT OR AS NOTED ON PLANS. REFER TO CITY, COUNTY OF FDOT SPECS AS APPLICABLE TO THE PROJECT.

2) EXISTING LIMEROCK BASE FROM DEMOLISHED PAVEMENTS CANNOT BE INCORPORATED IN THE NEW BASE, BUT INTO THE STABILIZED SUBGRADE.

3) FILL MATERIAL SHALL BE IN ACCORDANCE TO ASHTO N-145, FREE OF VEGETATION AND ORGANIC MATERIAL, CLASS A-1, A2-4, OR A-3.

4) CONTRACTOR SHALL INSTALL (AND PASS INSPECTIONS) OF ALL UNDERGROUND INFRASTRUCTURE PRIOR TO SUBGRADE COMPACTION.

5) SITE GRADING ELEVATIONS SHALL BE WITHIN 0.1' OF DESIGNED ELEVATIONS.

6) 3" TOP SOIL SHALL BE PLACED FOR SODDED AREAS UNLESS NOTED OTHERWISE IN LANDSCAPING PLANS.

ASPHALT PAVING

1) CONTRACTOR SHALL SAWCUT ALL EXISTING ASPHALT WHEN: A) MEETING NEW ASPHALT, ASPHALT REPAIRS, NEW CONCRETE CURBS, RAMPS, ETC.

2) CONTRACTOR SHALL ADJUST TO GRADE ALL EXISTING UTILITY CASTINGS INCLUDING VALVE BOXES, MANHOLES, HAND HOLES, PULL BOXES, INLETS AND SIMILAR STRUCTURES IN CONSTRUCTION AREA TO BE OVERLAPPED WITH ASPHALT (IF APPLICABLE).

2) REMOVE MUCK, OVERBURDEN AND ROOT MATERIAL WITHIN TEN (10) FEET OF ANY EDGE OF PAVEMENT OR BUILDING, AND BACKFILL TO REQUIRED SUBGRADE WITH CLEAN, GRANULAR MATERIAL IN MAXIMUM OF 12 INCH LIFTS, COMPACTED TO 98% MAXIMUM DENSITY AS DETERMINED BY AASHTO-T-180.

3) STABILIZED SUBGRADE (MINIMUM LBR 50) SHALL BE COMPACTED TO 98% MAXIMUM DENSITY AS REQUIRED BY AASHTO-T-180

5) LIMEROCK BASE SHALL MEET FLORIDA DOT SPECIFICATIONS, SECTION 911, AND INSTALLED PER SECTION 200 (IF APPLICABLE); OTHERWISE, OWNER SPECIFICATIONS APPLY. DENSITY TESTS SHALL BE TAKEN AT EVERY 5000 SF FOR EACH LIFT WITH COPIES TO THE ENGINEER FOR APPROVAL. LIMEROCK BASE SHALL BE PRIMED PER FDOT SECTION 300, AND SHALL HAVE A COMPACTED THICKNESS AS SPECIFIED ON THE PLAN, BUT IN NO CASE LESS THAN 6 INCHES.

6) EXISTING TRAFFIC SIGNS SHALL BE RESET UPON COMPLETION- PER FDOT STANDARDS. COST SHALL BE CONSIDERED INCIDENTAL. CONTRACTOR SHALL REPAIR OR REPLACE DAMAGED TRAFFIC SIGNAL LOOPS PER LOCAL COUNTY TRAFFIC ENGINEERING SPECIFICATIONS. (IF APPLICABLE).

7) THE MINIMUM SLOPE OF PAVEMENTS SHALL BE
TRANSVERSE SLOPE = 2% (ROADS), 1% (PARKING AREAS)
LONGITUDINAL SLOPE = 0.3%

8) PAVEMENT SURFACE: SEE PLAN AND DETAILS.

9) IF ASPHALT PLACED IN TWO LIFTS, CONTRACTOR SHALL APPLY A TACK COAT (25 GAL/SY) BETWEEN PAVEMENT LIFTS.

10) THE FINAL ASPHALT PAVEMENT COURSE SHALL BE APPLIED AFTER ALL HEAVY EQUIPMENT CONSTRUCTION ACTIVITIES ARE PERFORMED.

11) TESTING: ALL PAVEMENT IRREGULARITIES VARYING MORE THAN 1/4" INCH FROM DESIGN SHALL BE CORRECTED BY CONTRACTOR. DENSITY TEST OF LIMEROCK BASE SHALL BE PROVIDED TO ENGINEER OF RECORD AND APPROVED BEFORE INSTALLATION. PROCTOR DENSITIES SHALL BE PERFORMED ON ALL MATERIAL SUBGRADE AND BASE.

CONCRETE WORK:

1) CONCRETE WORK SHALL BE IN ACCORDANCE TO FDOT SECT 522, INDEX 310, CITY AND COUNTY STANDARDS AS APPLICABLE TO THE PROJECT AREA.

2) SIDEWALK RAMPS SHALL FOLLOW FDOT INDEX 304 SPECS.

3) CONCRETE USED FOR CURBS SHALL FOLLOW FDOT SECT 520, INDEX 300, MIN STRENGTH 4000 PSI AT 28 DAYS UNLESS OTHERWISE NOTED BY CITY OR COUNTY SPECS HAVING JURISDICTION OVER THE PROJECT AREA.

SIGNAGE AND PAVEMENT MARKINGS

1) ALL SIGNING AND MARKING SHALL CONFORM TO MUTCD AND BROWARD COUNTY TRAFFIC ENGINEERING STANDARDS LATEST EDITION

2) ALL PAVEMENT MARKINGS SHALL BE THERMOSTATIC UNLESS OTHERWISE NOTED ON PLANS OR SPECIFIC DETAILS.

3) STRIPING SHALL BE IN ACCORDANCE TO FDOT SECTIONS 710 & 971 AS APPLICABLE TO THE PROJECT AREA; UNLESS CITY OR COUNTY STDS APPLY

STORM DRAINAGE:

1) DRAINAGE PIPE SHALL BE AS SHOWN ON PLANS AND COMPLYING TO CITY, COUNTY AND FDOT SPECIFICATIONS AS APPLICABLE.

2) DRAINAGE PIPE BEDDING AND PIPE INSTALLATION SHALL BE IN CONFORMANCE WITH MANUFACTURER'S RECOMMENDATIONS AND AS PER CITY ,COUNTY OF FDOT REGULATORY REQUIREMENTS.

3) DRAINAGE STRUCTURES BEDDING SHALL BE 4" MIN STABILIZED ROCK & COMPACTED AS REQUIRED BY CITY AND COUNTY CODES IN ORDER TO MINIMIZE SEDIMENTATION.

4) PIPE LENGTHS SHOWN ON PLANS OR FOR TAKE OFFS SHALL BE TAKEN FROM CENTER OF THE STRUCTURES.

5) REINFORCED CONCRETE PIPE (RCP) SHALL MEET ASTM C-76 SPECS. FOLLOW MANUFACTURERS RECOMMENDATIONS FOR JOINT SEALS.

6) HIGH DENSITY POLYETHYLENE PIPE (HDPE) SHALL MEET ASHTO M252, ASHTO M294, ASTM F405, ASTM F667, AND ASTM D2321--MUNUFACTURER ADS, INC. FOLLOW MANUFACTURER RECOMMENDATIONS FOR SOIL TIGHT JOINTS

7) PROVIDE SHOP DRAWINGS OF ALL PRECAST DRAINAGE STRUCTURES TO ENGINEER FOR APPROVAL PRIOR TO MANUFACTURING.

8) ALL CONCRETE STRUCTURES CONCRETE SPECS PER CITY, COUNTY OF FDOT SPECS AS APPLICABLE TO PROJECT AREA.

9) PIPE SHALL BE PLACED OVER 8" STABLE GRANULAR MATERIAL FREE OF DEFORMATIONS & CONSTRUCTED IN UNIFORM GRADE AND LINE.

10) BACKFILL MATERIAL SHALL BE TAMPED IN 6" LAYERS MIN. 12" ABOVE TOP OF PIPE.

11) MINIMUM COVER: PER AGENCY HAVING JURISDICTION. 18" MIN.

PRESSURE PIPE WATER & FORCEMAIN

GENERAL

1) CONTRACTOR SHALL OBTAIN THE CITY, COUNTY OR FDOT SPECIFICATIONS AS APPLICABLE TO THE PROJECT AREA.

2) DUCTILE IRON PIPE (DIP) FOR WATER SYSTEM SHALL CONFORM TO ANSI / AWWA STANDARD C151/A21 51-02 LATEST EDITION, CLASS 51, (PRESSURE CLASS 350), CEMENTED LINED AND SEALED COATED (ANSI/AWWA C104/A21 4-95). USE FITTINGS CLASS 250 FOR ALL SIZES.

3) DIP PIPE FOR FORCEMAIN SYSTEM SHALL CONFORM TO TO ANSI / AWWA STANDARD C151/A21 51-02 LATEST EDITION, CLASS 51, (PRESSURE CLASS 350), CERAMIC EPOXY LINED, AND EXTERIOR COATED PER MANUFACTURER RECOMMENDATIONS.

4) DIP FITTINGS FOR WATER AND FORCEMAIN SYSTEMS SHALL CONFORM TO ANSI/AWWA C110/A21 10-98 AS APPLICABLE

5) JOINTS FOR DIP BELL AND SPIGOT TO CONFORM TO ANSI/AWWA C111/A21 11-00. MECHANICAL JOINT OR PUSH-ON JOINT TO BE RUBBER GASKET COMPRESSION TYPE

6) JOINTS FOR PVC PRESSURE PIPE SHALL BE BELL AND SPIGOT PUSH ON RUBBER GASKET --- NO SOLVENT WELD OR THREADED JOINTS ALLOWED

7) WATER SYSTEM RESTRAINT FITTINGS: JOINT (RESTRAINT), PUSH-ON JOINT PVC (EBBA IRON SERIES 2800 HARNESS), PUSH-ON DIP (TR-FLEX BY US PIE OR FLEX RING BY AMERICAN), DIP FITTINGS (EBBA IRON SERIES 1100 MEGALUG), PVC FITTINGS (EBBA IRON SERIES 2000 MEGALUG).

8) LENGTH OF RESTRAINED PIPE SHOWN ON DETAIL

9) WATER VALVES: GATE VALVES, IRON BODY, RATED 200 PSI, CONFORMING TO ANSI/AWWA C509-01 --- MECHANICAL JOINTED.

10) GATE VALVES 2" OR LARGER= MUELLER A-2380-20, AMERICAN 80 LINE OR CLOW F-6100, CONFORM ANSI/AWWA C-500-93 OR APPROVED EQUAL

11) TAPPINGS VALVES = MUELLER H667 OR APPROVED EQUAL. TAPPING SLEEVES MUELLER H-615, CLOW F-2505 OR APPROVED EQUAL

12) VALVE BOXES US FOUNDRY 7500 OR APPROVED EQUAL, PAINTED BLUE WATER DESIGNATION, REFLECTIVE MARKER USE TO IDENTIFY LOCATION

13) RETAINER GLANDS FOR DIP PER ANSI/AWWA C111/A21 11-00, 250 PSI MIN PRESSURE

14) LOCATING WIRE SHALL BE INSTALLED ONE FOOT ABOVE INSTALLED PVC PIPE. USE 14 GAUGE WIRE, AND ALSO FOR VALVES, BLOW OFFS, ETC

15) FIRE HYDRANTS SHALL BE PER CITY, COUNTY SPECIFICATIONS.

16) FORCEMAIN VALVES SHALL BE PLUG VALVES, NON LUBRICATED, ECCENTRIC TYPE WITH RESILIENT FACED PLUGS. DESIGEND FOR 150 PSI WORKING PRESSURE. VALVES SHALL BE BUBBLE TIGHT IN BOTH DIRECTIONS AT 100 PSI. INSTALLED WITH THE SEAT POINTED TOWARDS THE UPSTREAM FLOW WHEN NOTED.

17) CHECK VALVES FOR WATER OR SEWER HALL BE OF OUTSIDE LEVER AND SPRING OR WEIGHT TYPE PER ANSI/AWWA C508-01

18) SERVICE CONNECTIONS: SERVICE LINES SHALL BE PE 3408, 200 PSI RATED, DR9 PIPE JOINTS SHALL BE OF COMPRESSION TYPE TOTALLY CONFINED GRIP SEAL AND COPLING NUT. SADDLES SHALL HAVE EPOXY COATED DUCTILE IRON WITH STAINLESS STEEL STRAPS, DOUBLE STRAP TYPE

19) CORPORATION STOPS OF BRASS ALLOY PER ASTM B-62.

20) INSTALLATION: A) USE DIP PIPE FOR LOCATIONS WHERE RESTRAINED PIPE JOINTS ARE REQUIRED, B) FOR PVC PIPE USE THE ANSI/AWWA C605-94 STANDARD AND/OR UNIBELL PLASTIC PIPE ASSOCIATION PVC GUIDELINES, C) DIP INSTALLATION PER ANSI/AWWA C600-99 LATEST EDITION

21) MINIMUM COVER: 36" (PVC PIPE), 30" (DIP).

22) PIPE BEDDING SHALL BE BACKFILL TAMPED MATERIAL IN 9" LAYERS, AND FREE OF STONES AT LEAST 8" BELOW PIPE BOTTOM ELEV.

23) PIPE DEFLECTION MAX 50% OF MANUFACTURER'S RECOMMENDATION

24) TESTING: A) PRESSURE TEST COMPLETE WATER SYSTEM AT MIN STARTING PRESSURE 150 PSI FOR TWO HOURS PER ANSI/AWWA C600-99. PRESSURE TEST SHALL NOT VARY MORE THAN 5 PSI DURING THE TEST, B) DISINFECTION SHALL BE IN ACCORDANCE TO ANSI/AWWA C651-99 AND PASSING BACTERIOLOGICAL RESULTS SHALL BE OBTAINED PRIOR TO ANY PHYSICAL CONNECTIONS. ACCEPTANCE OF ALL TESTS IS REQUIRED FOR PLACING LINE IN OPERATION. C) PRESSURE TEST SHALL BE WITNESS BY UTILITY OWNER AND ENGINEER OF RECORD, D) SAMPLING POINTS SHALL BE PROVIDED BY THE CONTRACTOR AS REQUIRED BY UTILITY OWNER. TWO SAMPLE POINTS REQUIRED FOR MAINS LESS THAN 1,000 FEET, AND THREE SAMPLE POINTS FOR GREATER THAN 1,000 FEET MAINS.

GRAVITY SEWER

1) ALL PVC SEWER PIPE SHALL BE SDR 35 WITH PUSH-ON RUBBER GASKET JOINTS COMPLYING TO ASTM D3034

2) ALL DIP SEWER PIPE SHALL BE EPOXY LINED OR COATED PER MANUFACTURER'S RECOMMENDATIONS AND SHALL CONFORM TO ANSI/AWWA C151/A21 51-02.

3) DUCTILE IRON FITTINGS PER ANSI/AWWA C110/A21 10-98, EPOXY LINED AS RECOMMENDED BY MANUFACTURER

4) SEWER MANHOLES PER ASTM C478 WITH 4,000 PSI, 8" WALLS & 60 GRADE STEEL PROPER BASE BEDDING WITH UNIFORM BEARING REQUIRED TO SET PLUMB TO LINE. MANHOLES SHALL BE SEALED WITH TYPE II SULPHATE RESISTANT CEMENT OR APPROVED EQUAL. USE BOOT COUPLINGS WITH STAINLESS STEEL ACCESSORIES (FERNCO NEOPRENE OR APPROVED EQUAL) FOR MANHOLE CONNECTION TO PIPES. CONTRACTOR SHALL APPLY TWO COATS OF KOPPERS 300 M (FIRST RED, SECOND BLACK, 16 MILS/COAT) AND ONE COAT BLACK TO THE OUTSIDE OF THE MANHOLE PER MANUFACTURER'S RECOMMENDATIONS, INTERIOR COATS SHALL BE APPLIED AFTER LAMPING.

5) BELL AND SPIGOT DIP JOINTS AND FITTINGS PER ANSI/AWWA C111/A21 11-00. MECHANICAL JOINTS OR PUSH-ON JOINTS TO BE RUBBER GASKET COMPRESSION TYPE,

6) INSTALL CLEAN OUTS EVERY 75 FEET IN A SEWER SERVICE LINE, AT PROPERTY LINE, AND 5' AWAY FROM BUILDING OR AS REQUIRED BY PLUMBING CODES.

7) PVC PIPE SHALL BE INSTALLED PER ASTM D2321, DIP PIPE INSTALLATION PER ANSI/AWWA C-600-99

8) ALL OPENINGS AND JOINTS SHALL BE WATER TIGHT SEALED.

9) A MINIMUM OF SIX INCH (6") OF 3/4" ROCK BED SHALL BE PROVIDED FOR UNDERWATER PIPES.

10) TESTING A) PER CITY OR GOVERNMENT AGENCY REQUIREMENTS, B) MANHOLE LEAK TEST NOT TO EXCEED 4 GAL/DAY/UNIT, NO VISIBLE LEAK ALLOWED, C) INFILTRATION / EXFILTRATION TEST MAY BE REQUIRED, D) ALLOWED LEAKAGE FOR SEWER PIPE NOT TO EXCEED 100 GAL/IN INSIDE PIPE DIAMETER/DAY/ SECTION OF PIPE TESTED, D) TV VIDEO INSPECTION REQUIRED PER CITY REQUIREMENTS.

WATER AND SEWER MAINS SEPARATION

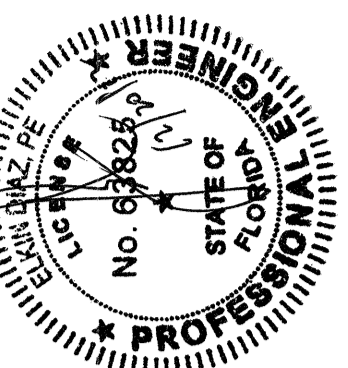
1) CONTRACTOR SHALL OBTAIN THE LATEST REQUIREMENTS FROM PERMITTING AGENCIES

2) 10' HORIZONTAL SEPARATION BETWEEN WATER & SEWER MAINS RUNNING PARALLEL TO EACH OTHER WHENEVER POSSIBLE. SEPARATE TRENCHES REQUIRED FOR EACH MAIN IF LESS THAN 10' HOR. SERAPARATION AND WATER MAIN BOTTOM AT LEAST 18" HIGHER THAN TOP OF SEWER MAIN. CONSTRUCT BOTH MAINS WITH DIP PIPE IF 18" VERTICAL SEPARATION IS NOT POSSIBLE. MINIMUM VERT CLEARANCE OF 12 INCHES WITH WATER MAIN ABOVE SEWER AND BOTH MAINS' JOINTS LOCATED STAGGERED.

3) ALL DIP SHALL BE CLASS 51 MIN. CORROSION RESISTANT

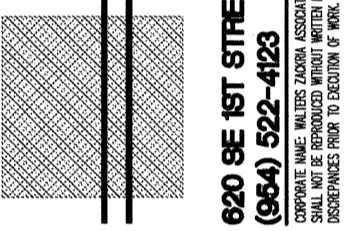
4) WATER MAINS SHALL BE PLACED OVER ALL SEWER AND FORCEMAINS WHENEVER POSSIBLE.

5) MIN 18" CLEARANCE BETWEEN FORCEMAIN CROSSINGS WITH WATER MAINS. CONTRACTOR SHALL CONTACT UTILITY OWNER AND ENGINEER OF RECORD WHEN THIS REQUIREMENT CAN NOT BE MET.



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ARCHITECTURE • PLANNING • DESIGN



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(954) 522-4123 FAX: (954) 522-4128
REGISTERED PROFESSIONAL ARCHITECTS AND ENGINEERS
STATE OF FLORIDA
EXPIRES 12/31/2011

BROWARD COUNTY ENG & HWY CONST. DIVISION

SITE IMPROVEMENTS

SAW PALMETTO NATURAL AREA

4950 NW 71st PLACE, COCONUT CREEK, FL 33073

DRAWN BY:
CHECKED BY:
DATE: 06/28/2012
REVISIONS:

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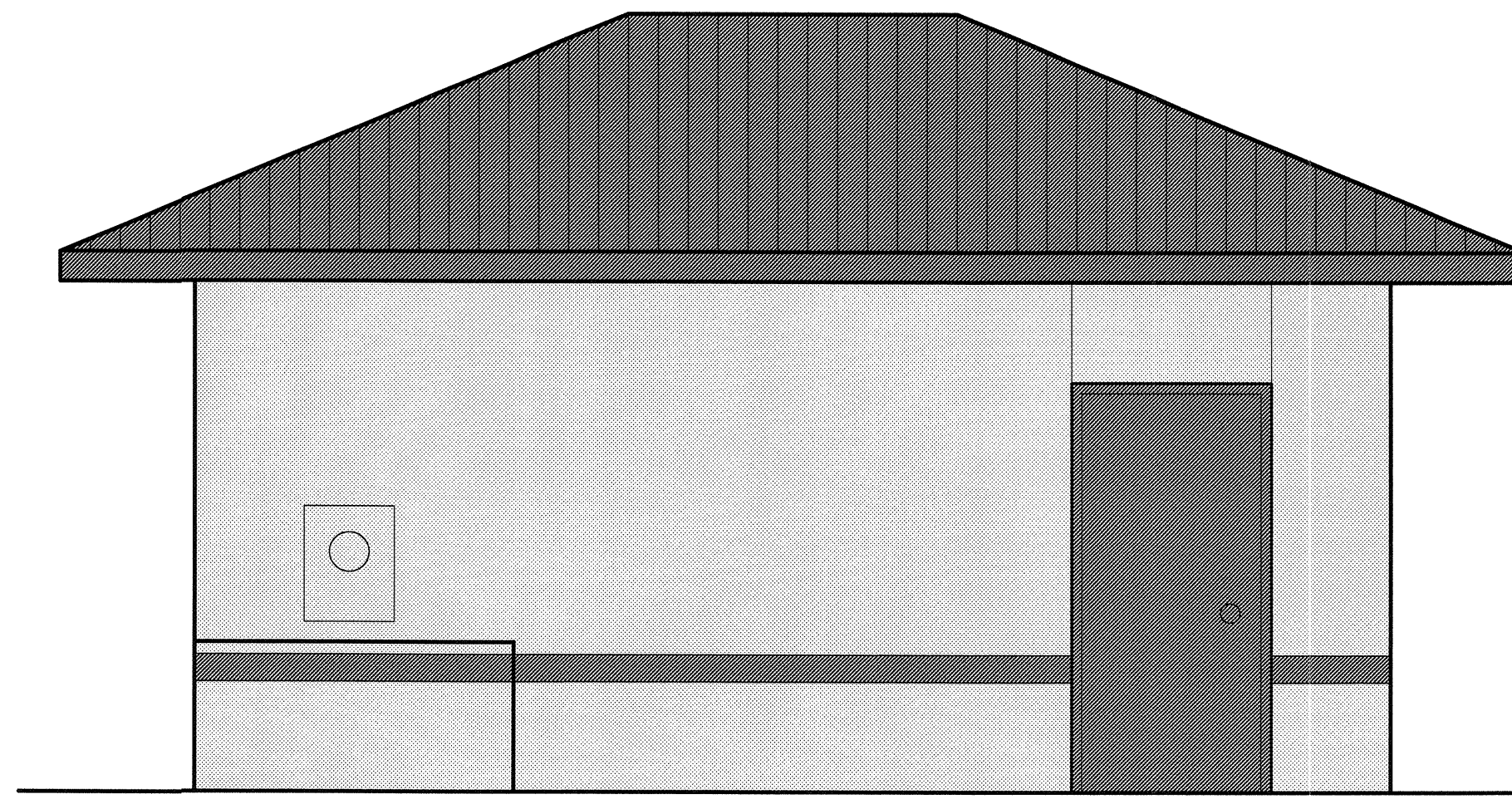
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SHEET

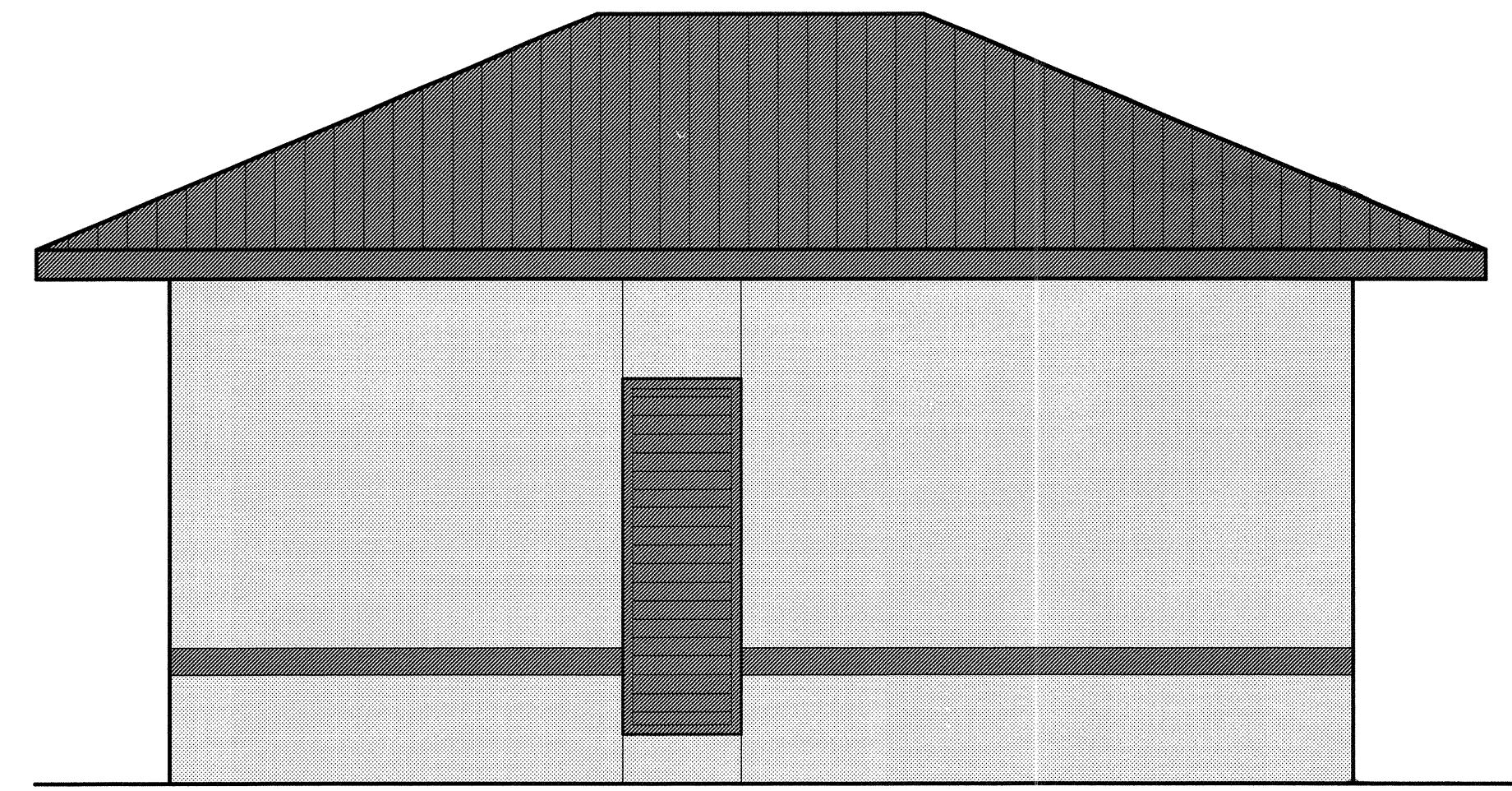
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CIVIL NOTES

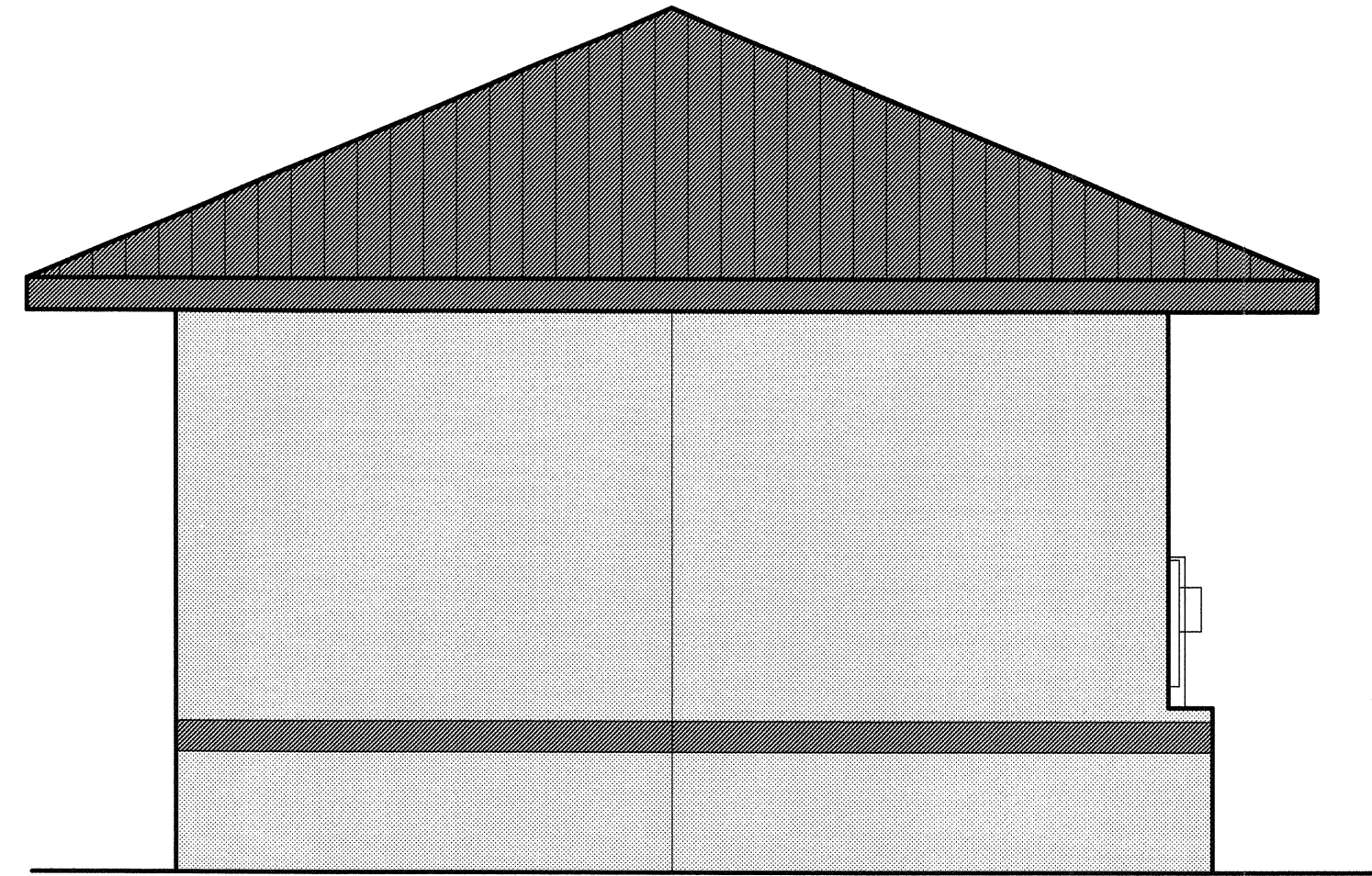
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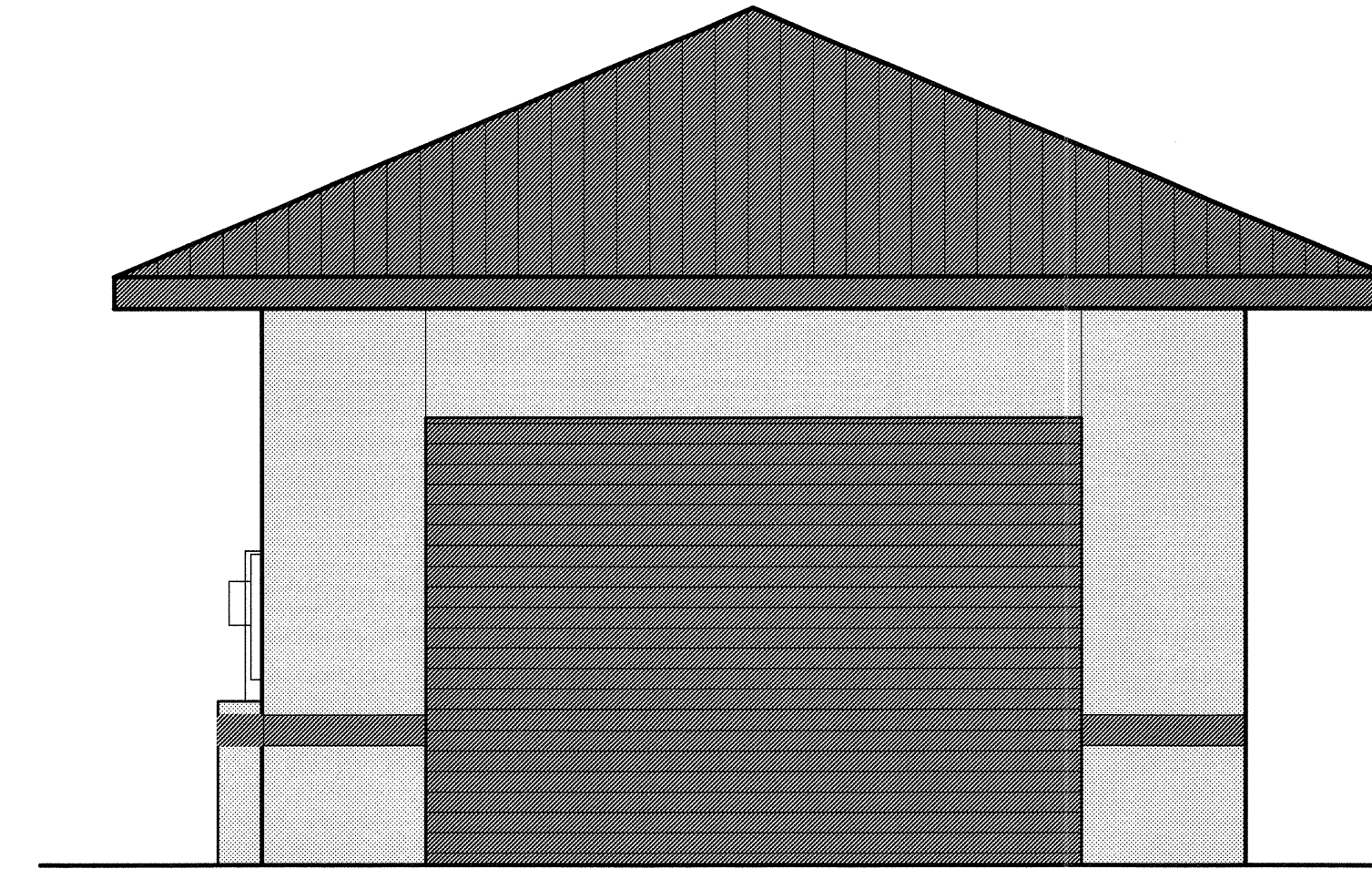
STORAGE BUILDING EAST ELEVATION






STORAGE BUILDING WEST ELEVATION



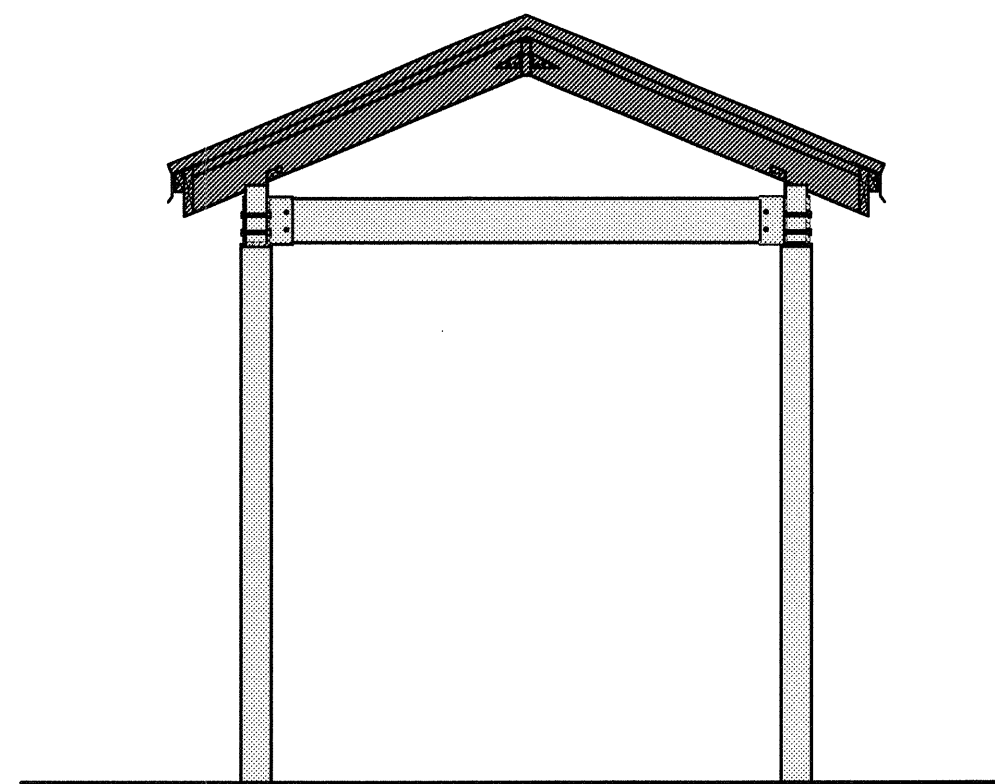
STORAGE BUILDING SOUTH ELEVATION



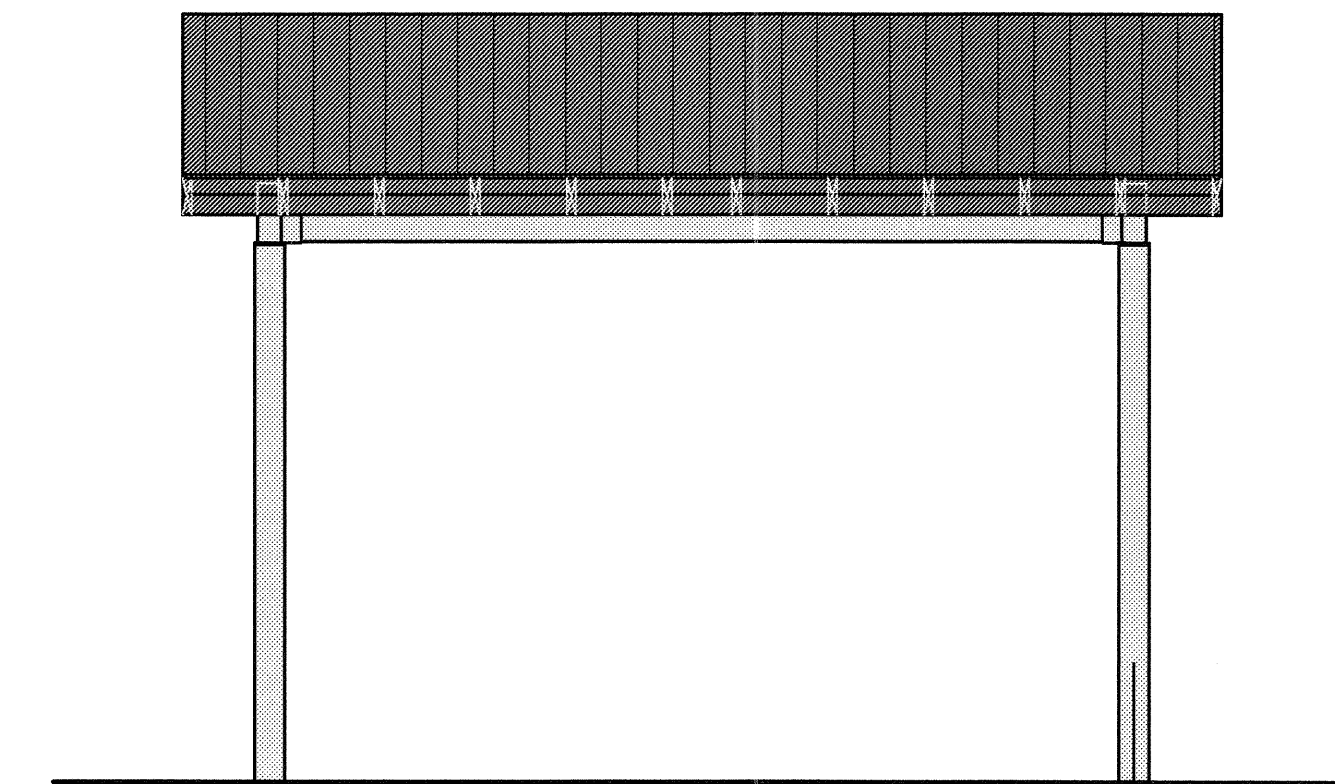
STORAGE BUILDING NORTH ELEVATION

COLOR LEGEND	
	PNT-1: WALL FIELD COLOR ACRYLUX 'MANHATTAN BEIGE 34A-3P'
	PNT-2 DOORS, LOUVERS, ACCENT ACRYLUX 'TEMPEST SEA 162A'
	PNT-3 METAL ROOF TO MATCH 'TEMPEST SEA 162A'

NOTES:
 1) PAINT NUMBERS REFERENCE ACRYLUX UNLESS NOTED OTHERWISE.
 2) COORDINATE TYPE OF FINISH (PAINTED, POWDER-COAT, ANODIZED, ETC.) WITH DRAWINGS & SPECIFICATIONS.



PAVILION - FRONT AND BACK VIEW



PAVILION - SIDE VIEW

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 A. MARK SCALA, P.E. - FL. PE. 34353

BROWARD COUNTY PARKS AND RECREATION DIVISION

SITE IMPROVEMENTS

SAW PALMETTO NATURAL AREA

4950 NW 71ST PL, COCONUT CREEK, FL 33073

DRAWN BY: DK
 CHECKED BY: WZA
 DATE: 09-12-12

REVISIONS:

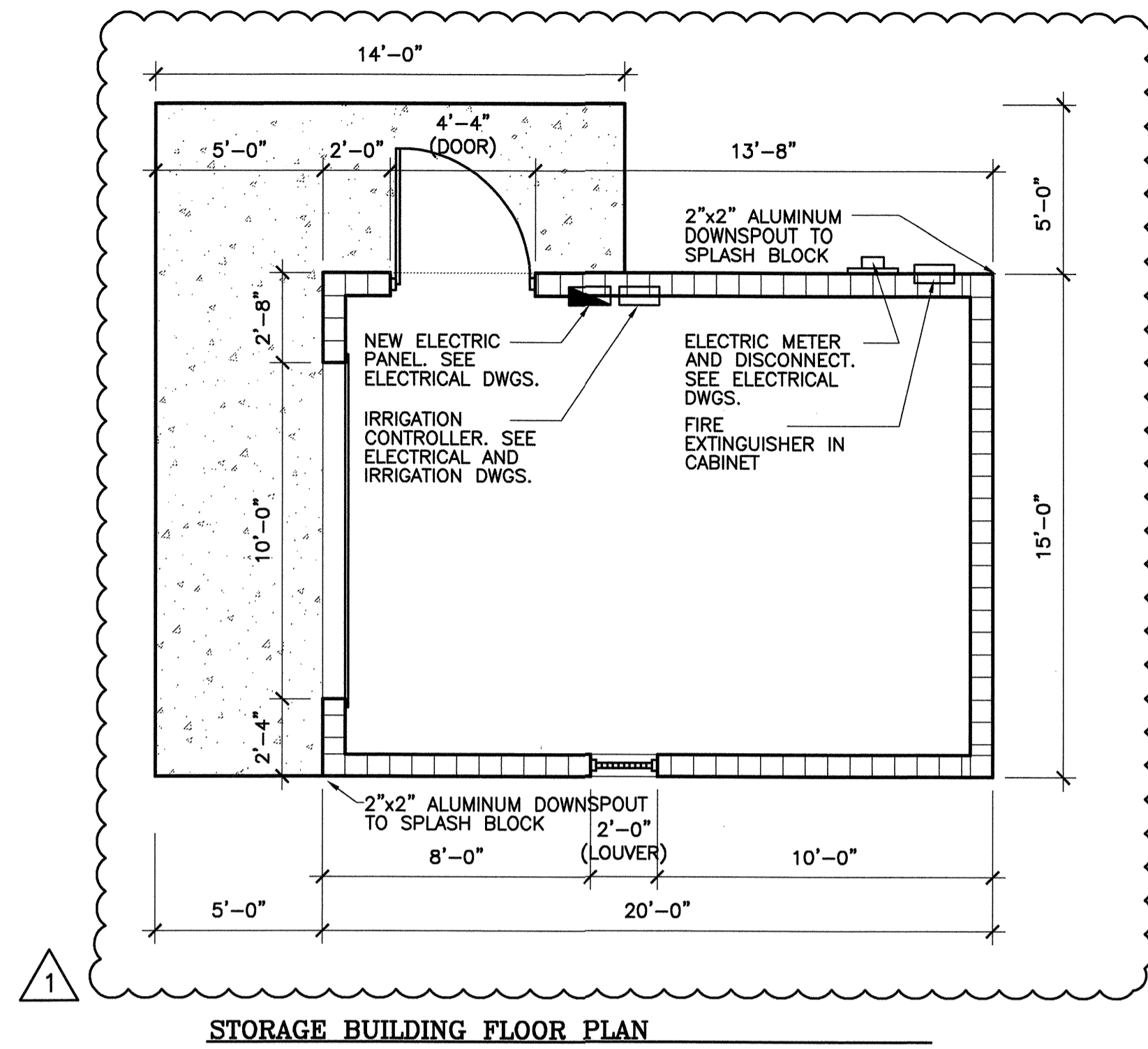
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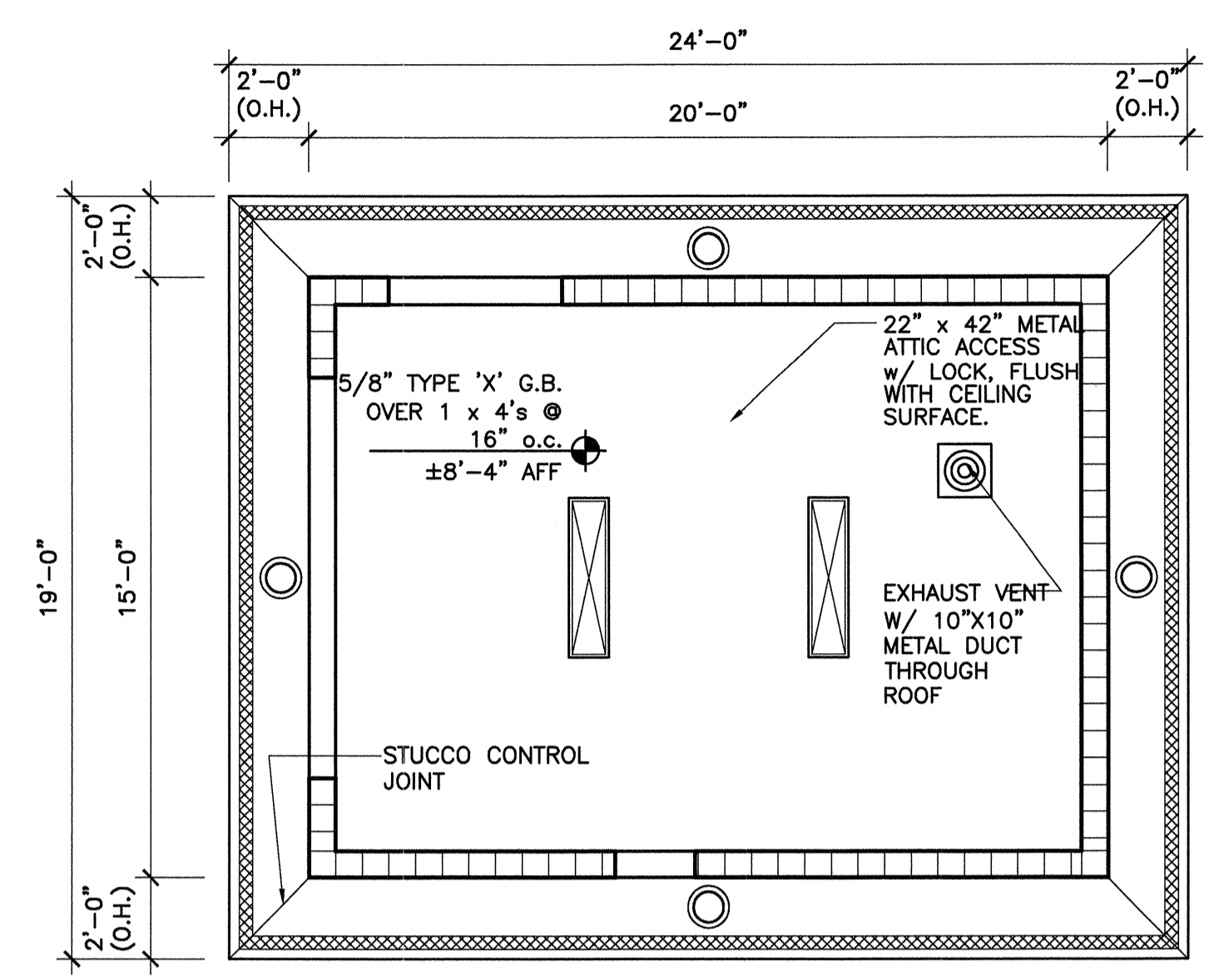
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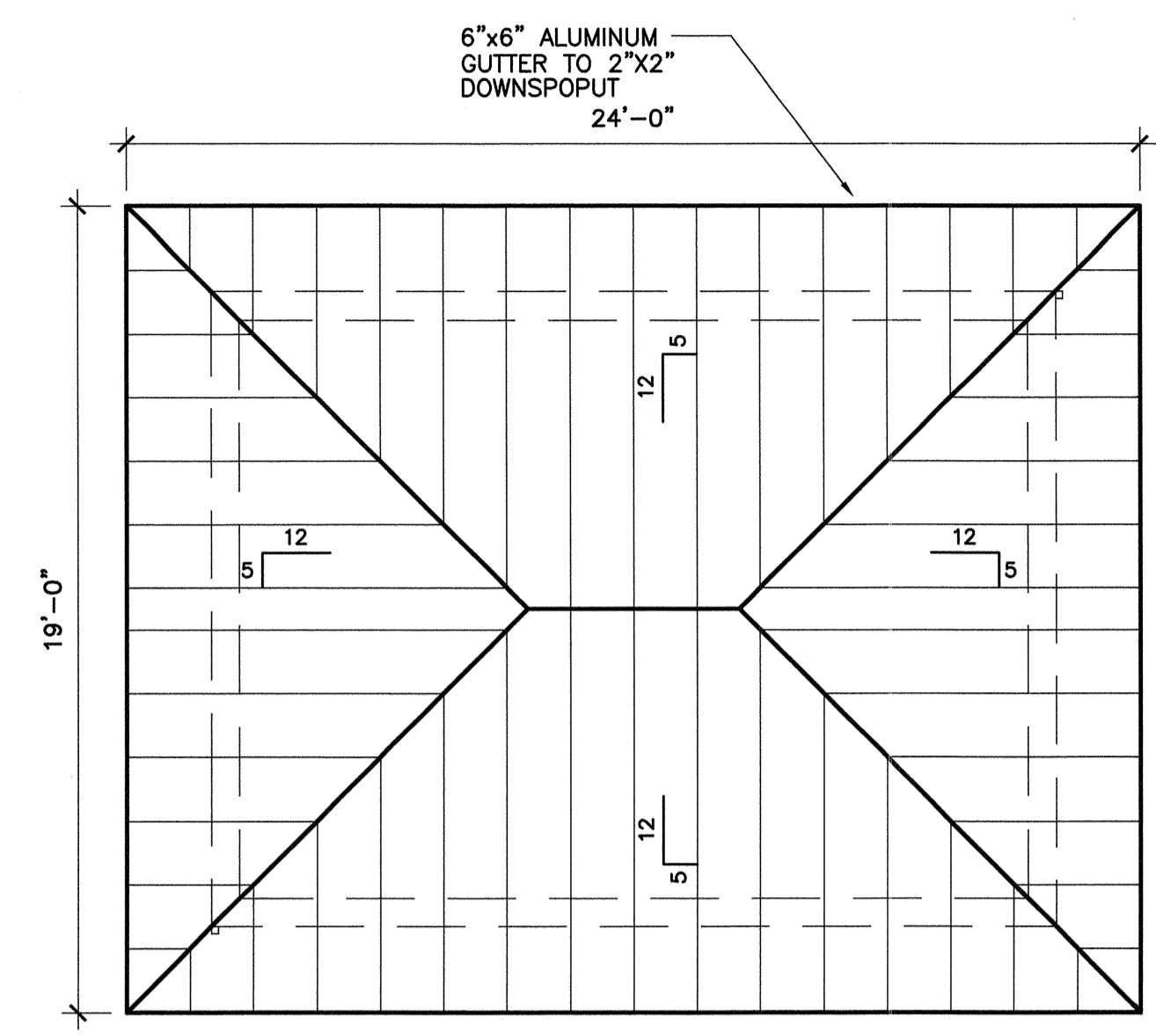
STORAGE BLDG, SHELTER
 COLORED ELEVATIONS



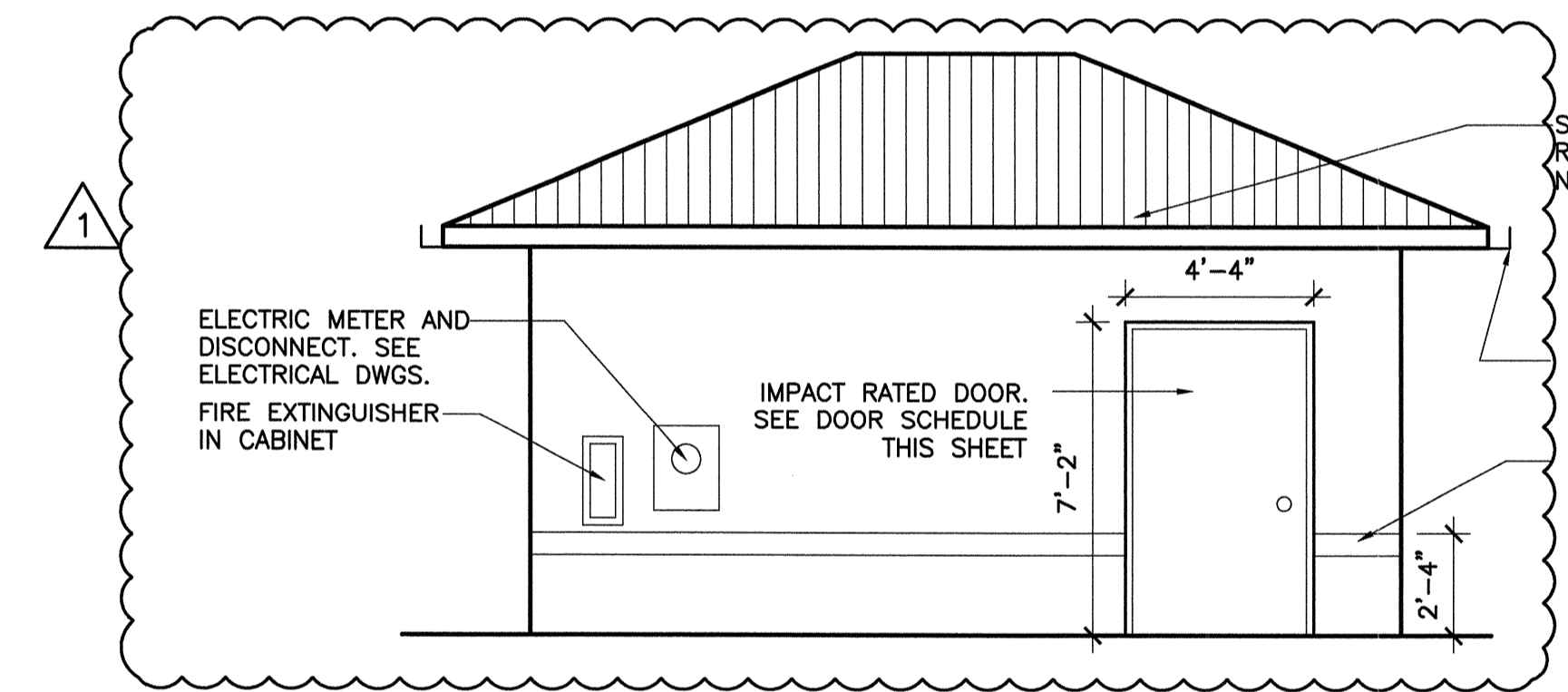
STORAGE BUILDING FLOOR PLAN



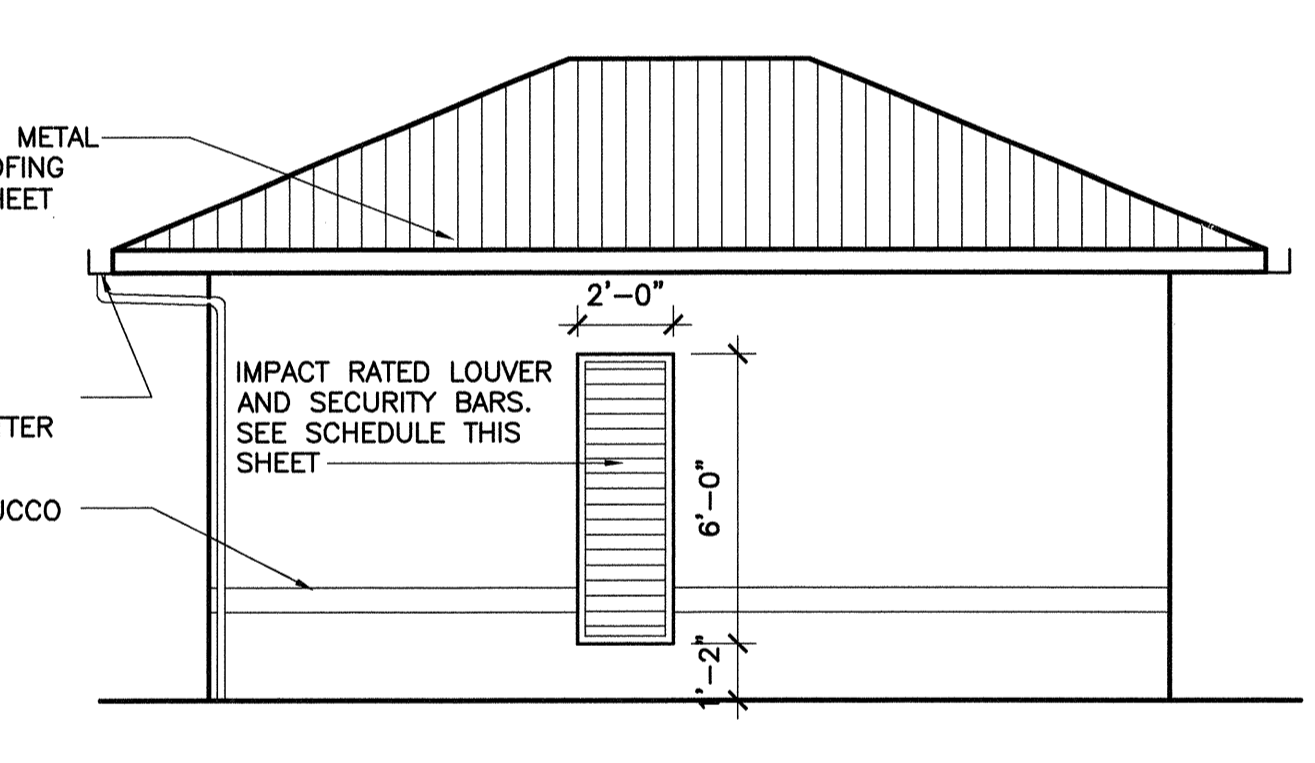
STORAGE BUILDING REFLECTED CEILING PLAN



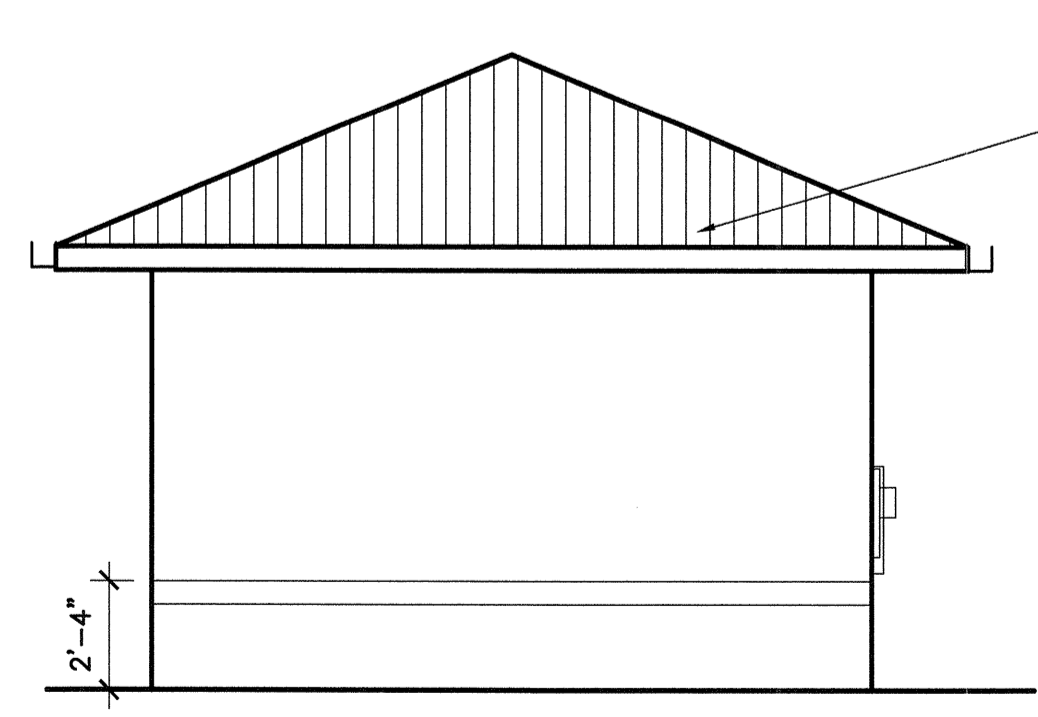
STORAGE BUILDING ROOF PLAN



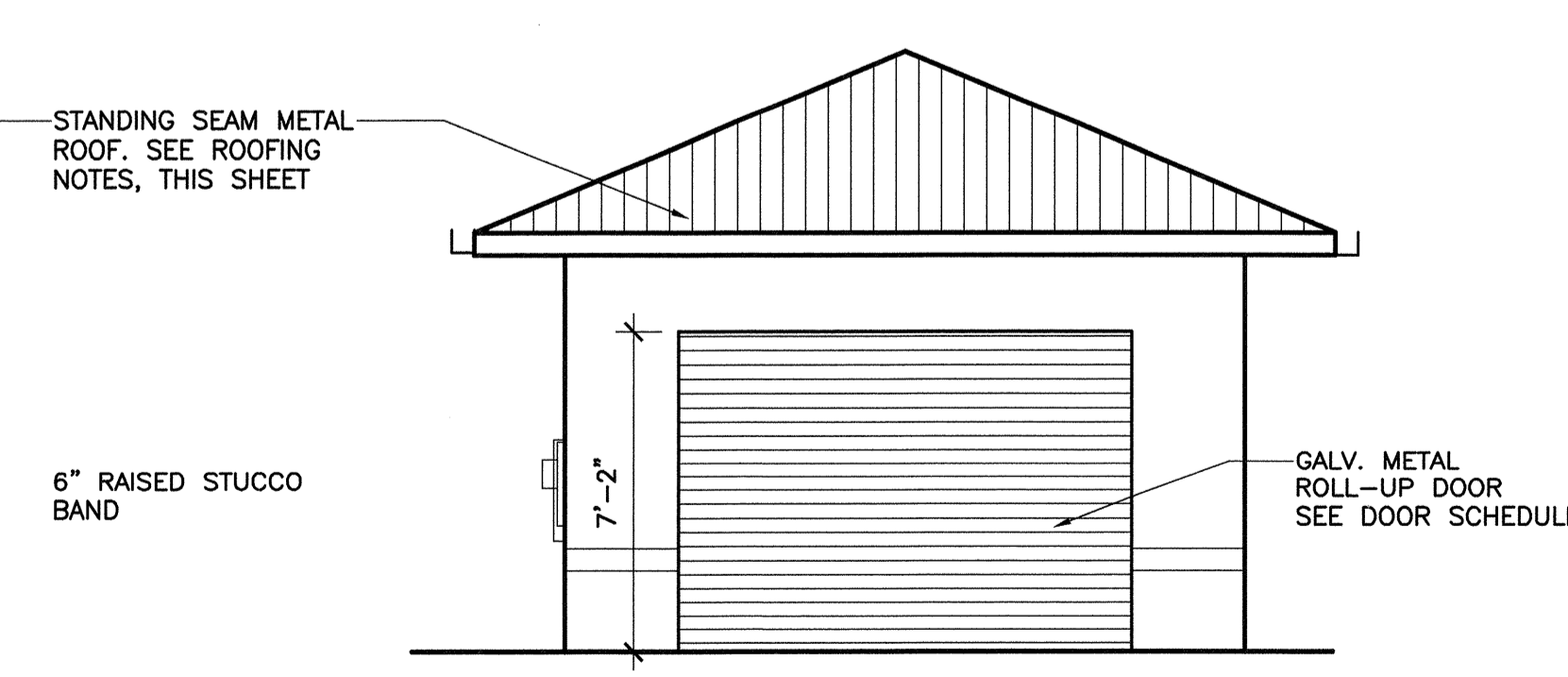
STORAGE BUILDING EAST ELEVATION
SCALE : 1/4" = 1'- 0"



STORAGE BUILDING WEST ELEVATION
SCALE : 1/4" = 1'- 0"



STORAGE BUILDING SOUTH ELEVATION
SCALE : 1/4" = 1'- 0"



STORAGE BUILDING NORTH ELEVATION
SCALE : 1/4" = 1'- 0"

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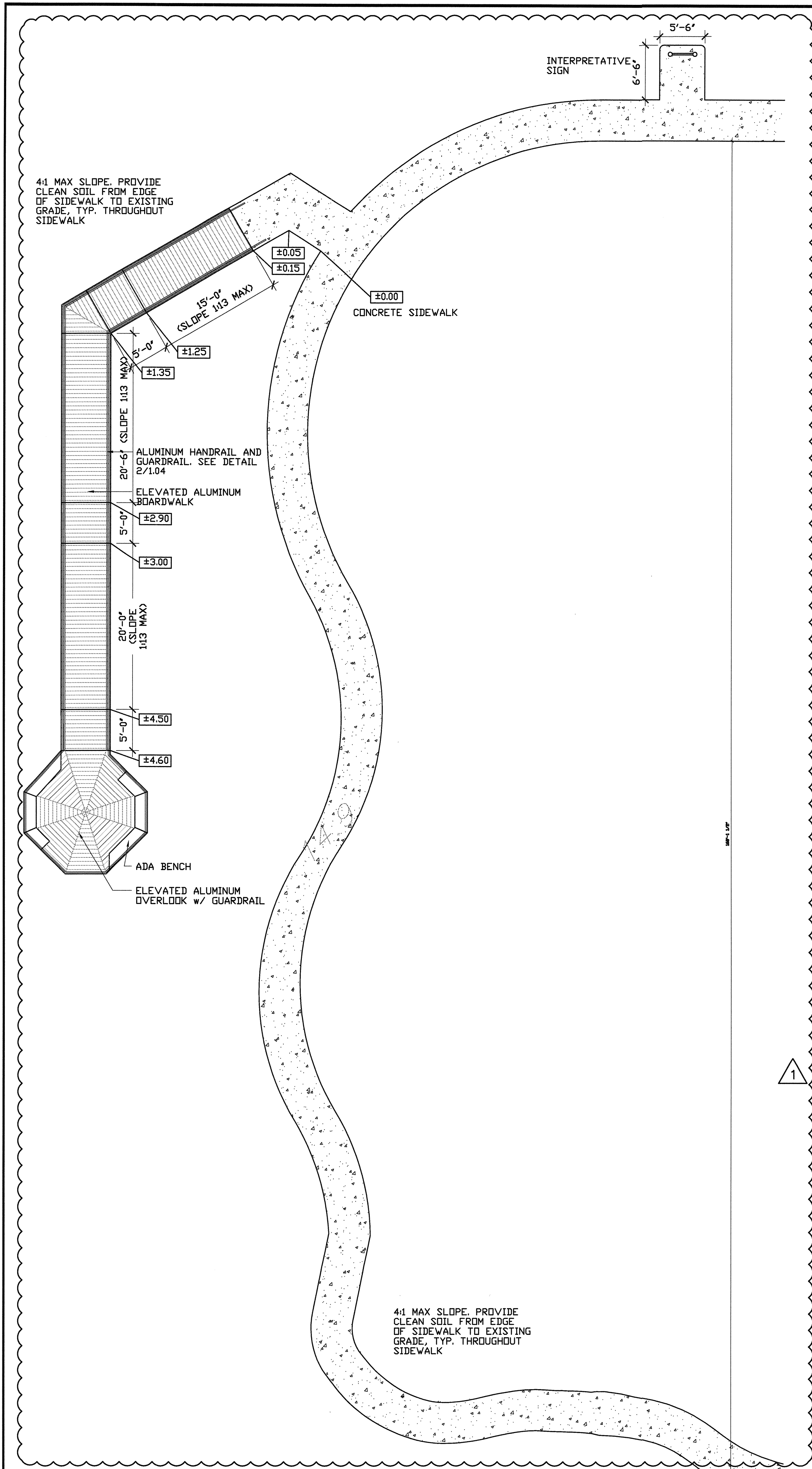
BROWARD COUNTY PARKS AND RECREATION DIVISION
SITE IMPROVEMENTS

SAW PALMETTO NATURAL AREA
4950 NW 71ST PL, COCONUT CREEK, FL 33073

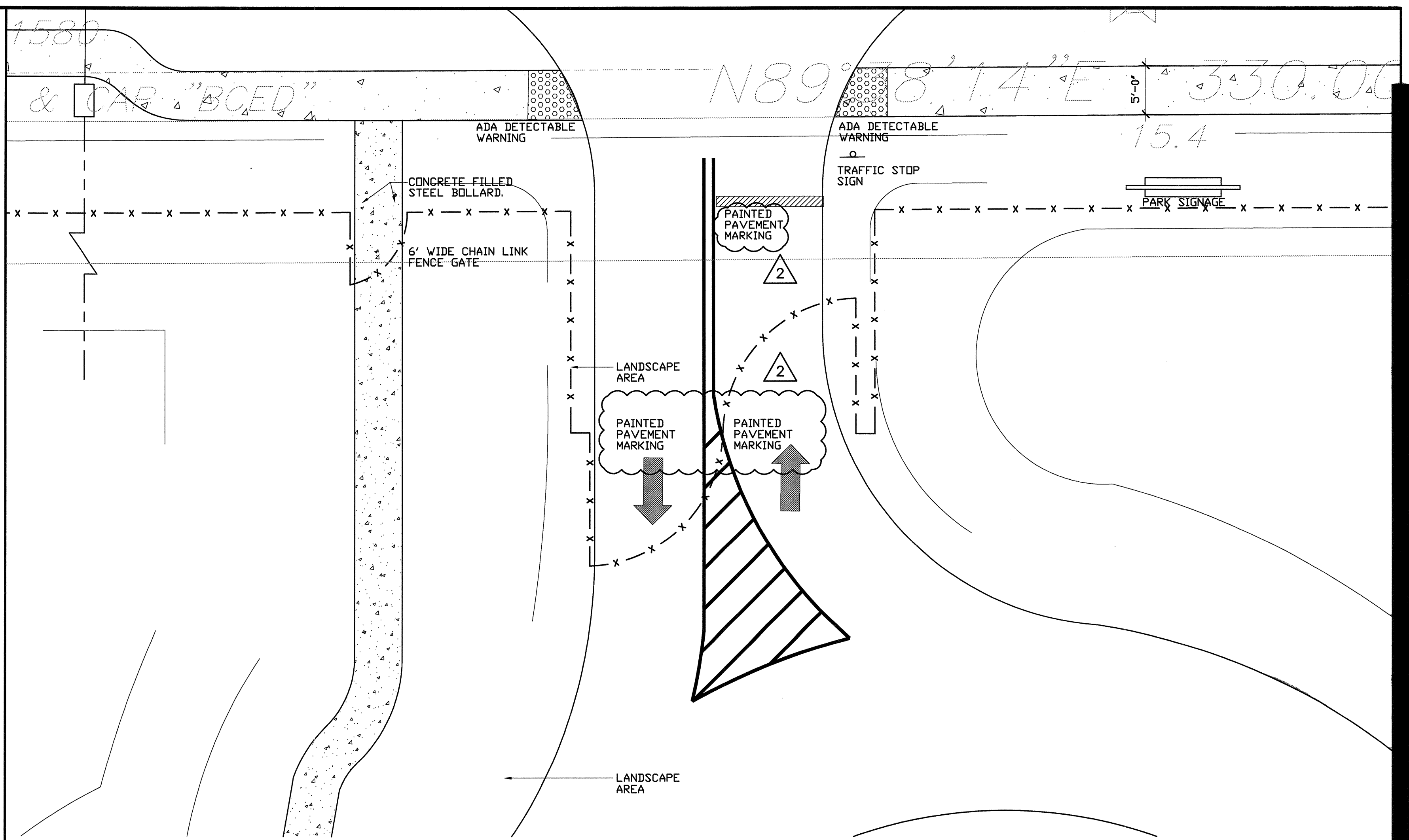
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CHECKED BY: WZA
DATE: 09-12-12
REVISIONS:
12-15-12 OWNER COMM

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SHEET
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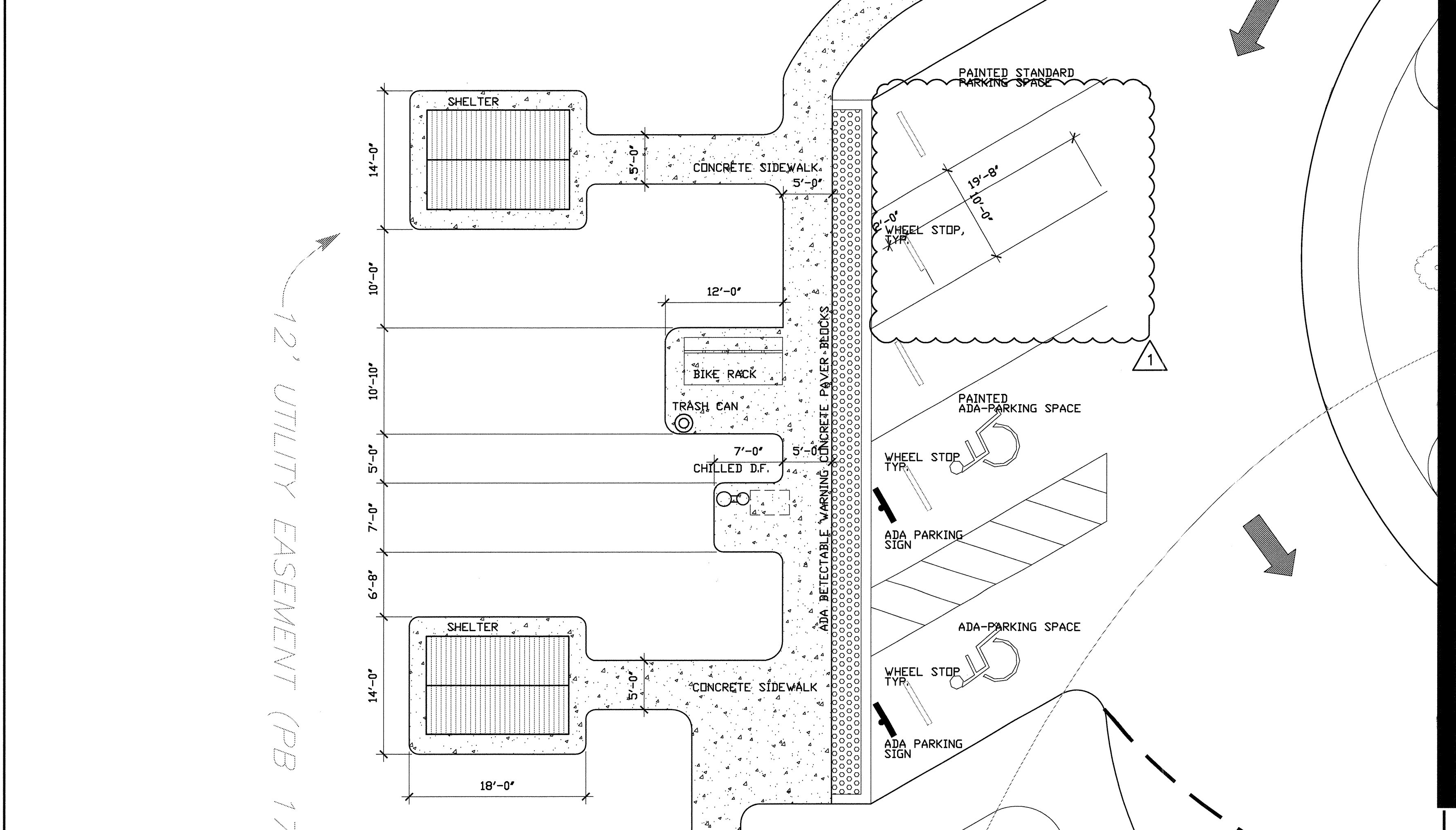
STOR. BLDG. PLANS,
EXTR. ELEV., DETAILS



2 ENLARGED SITE PLAN AT RECYCLE PLASTIC BOARDWALK AND OVERLOOK
SCALE: 1/8" = 1'-0"



1 ENLARGED SITE PLAN AT PROPOSED PARK ENTRANCE
SCALE: 1/8" = 1'-0"



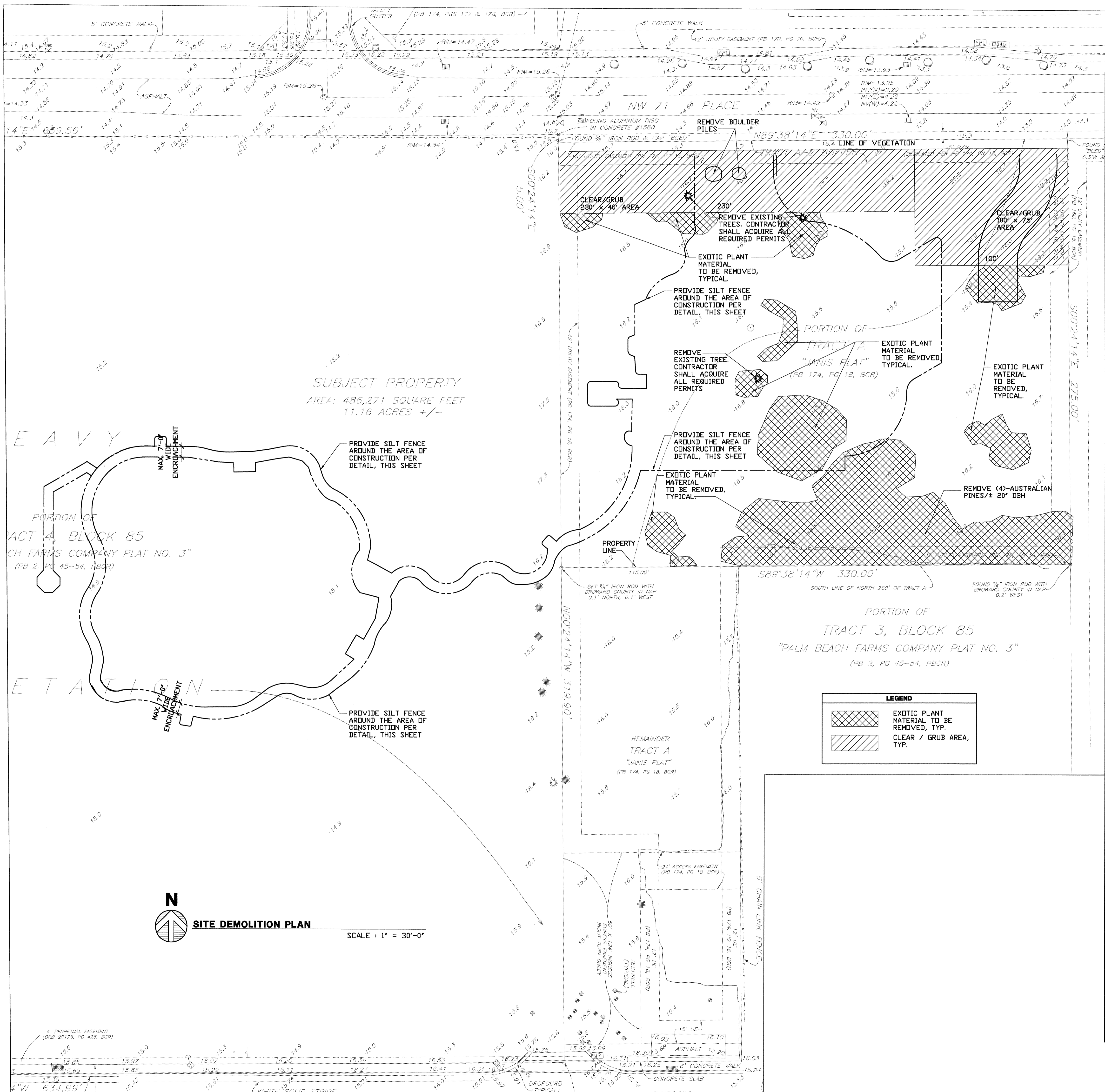
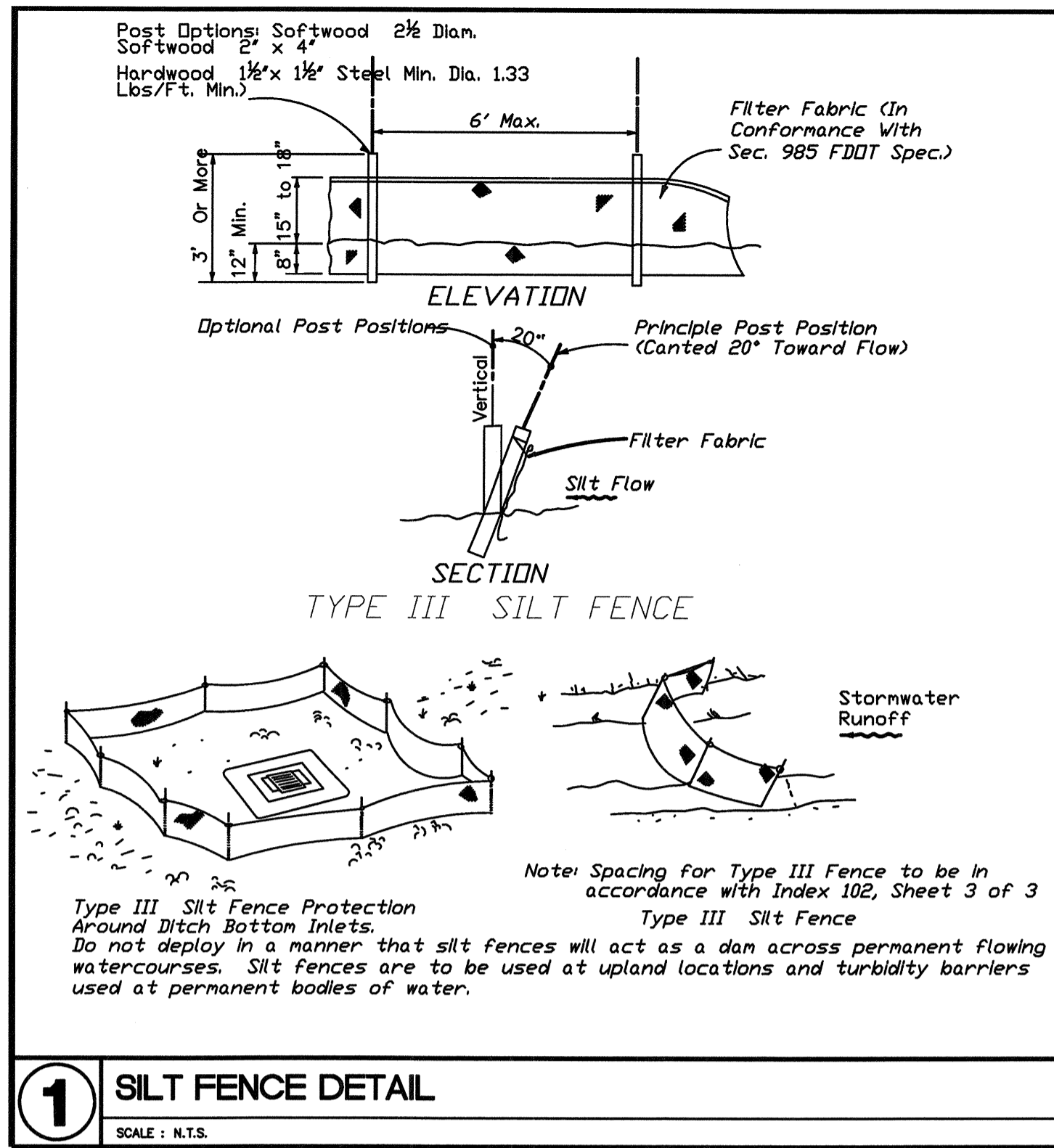
3 ENLARGED SITE PLAN AT SHELTER STRUCTURE, ADA PARKING
SCALE: 1/8" = 1'-0"

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BROWARD COUNTY PARKS AND RECREATION DIVISION
SITE IMPROVEMENTS
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4950 NW 71ST PL, COCONUT CREEK, FL 33073

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DATE: 08-31-12
REVISIONS:
△ 12-15-12 DRC CDM
△ 12-15-12 DWNER CDM

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0.11
ENLARGED SITE PLAN



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CHECKED BY: WZA
DATE: 08-31-12
REVISIONS:

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0.09
SITE DEMOLITION PLAN

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