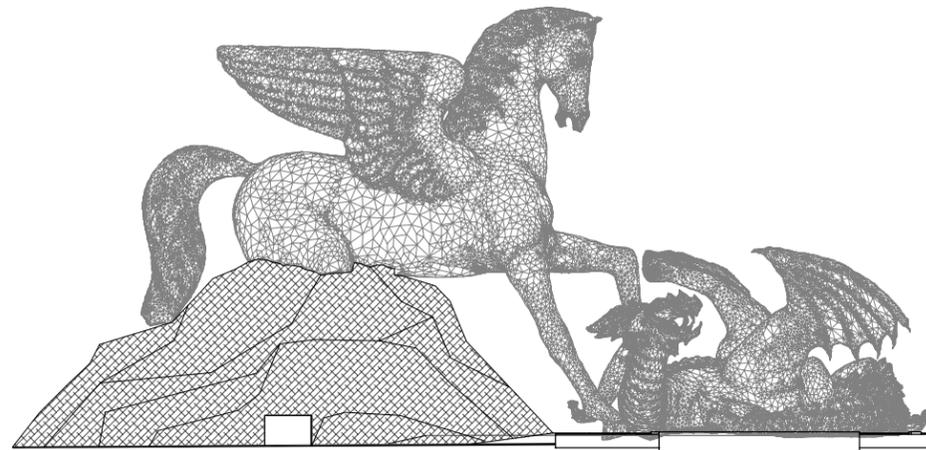


GULFSTREAM PARK RACING ASSOCIATION, INC.

HALLANDALE BEACH, FLORIDA



PEGASUS PARK PAVILION

SITE PLAN SUBMITTAL

OWNER

PEGASUS FLORIDA, INC.
 901 SOUTH FEDERAL HIGHWAY
 HALLANDALE, FLORIDA 33009

ARCHITECTURE



www.brph.com Copyright © 2013
Architects, Engineers, Constructors
 1475 East Centrepark Blvd | Suite 230
 West Palm Beach | Florida | 33401
 561-616-5878 | 561-616-5902 f

LANDSCAPE ARCHITECTURE

Covelli Design Associates, Inc. LC 26000287
 2295 NW Corporate Blvd, Suite 213
 Boca Raton, Florida 33431
 561-910-0330
 covellidesign.com
 Urban Planning • Landscape Architecture

SURVEYING

STONER & ASSOCIATES, Inc.
 SURVEYORS - MAPPERS
 Florida Licensed Survey
 and Mapping Business No. 6633
 4341 S.W. 62nd AVENUE TOWN OF DAVIE, FLORIDA 33314
 TEL (954) 585-0997 FAX (954) 585-3927

SITE PLANNING AND ENGINEERING

JOSEPH ROLES AND ASSOC., INC.
 CONSULTING ENGINEERS
 7501 N.W. 4th STREET, SUITE 101
 PLANTATION, FLORIDA 33317
 PHONE (954) 581-1945
 CERTIFICATE OF AUTHORIZATION NO. 3948

LEAVE BLANK - FOR CITY USE ONLY

SHEET NUMBER	INDEX OF SHEETS
1 OF 1	SUBMITTAL KEY SHEET AND INDEX OF PLANS TOPOGRAPHIC SURVEY
SP-1	CURRENT SITE CONDITIONS PLAN (1"=120')
SP-2	CURRENT PEGASUS SITE PLAN (1"=40')
SP-3	PROPOSED SITE CONDITIONS PLAN (1"=120')
SP-4	PROPOSED PEGASUS SITE PLAN (1"=40')
SP-5 TO SP-6	PROPOSED DEVELOPMENT SITE PLAN (1"=20')
A-101	BUILDING ARCHITECTURAL FLOOR PLAN
A-201 TO A-202	BUILDING ARCHITECTURAL ELEVATIONS
DD-03	BUILDING ARCHITECTURAL COLOR & FINISH
AL-101	BUILDING CODE DATA AND LIFE SAFETY PLAN
A-401	DUMPSTER ENCLOSURE ARCHITECTURAL PLAN
LP-1	LANDSCAPE PLAN
LP-2	LANDSCAPE DETAILS & NOTES
TD-1	LANDSCAPE TREE AND PALM DISPOSITION PLAN
IR-1	LANDSCAPE IRRIGATION PLAN
01 TO 15	CIVIL ENGINEERING PLANS



**GULFSTREAM
 PARK SITE**



LOCATION MAP

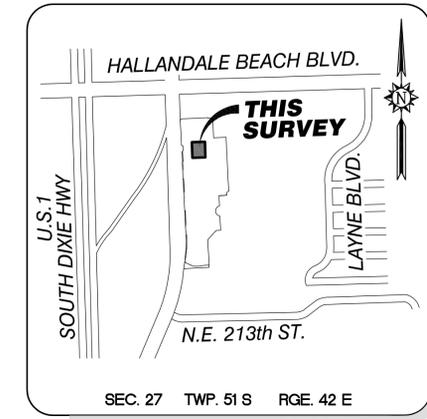
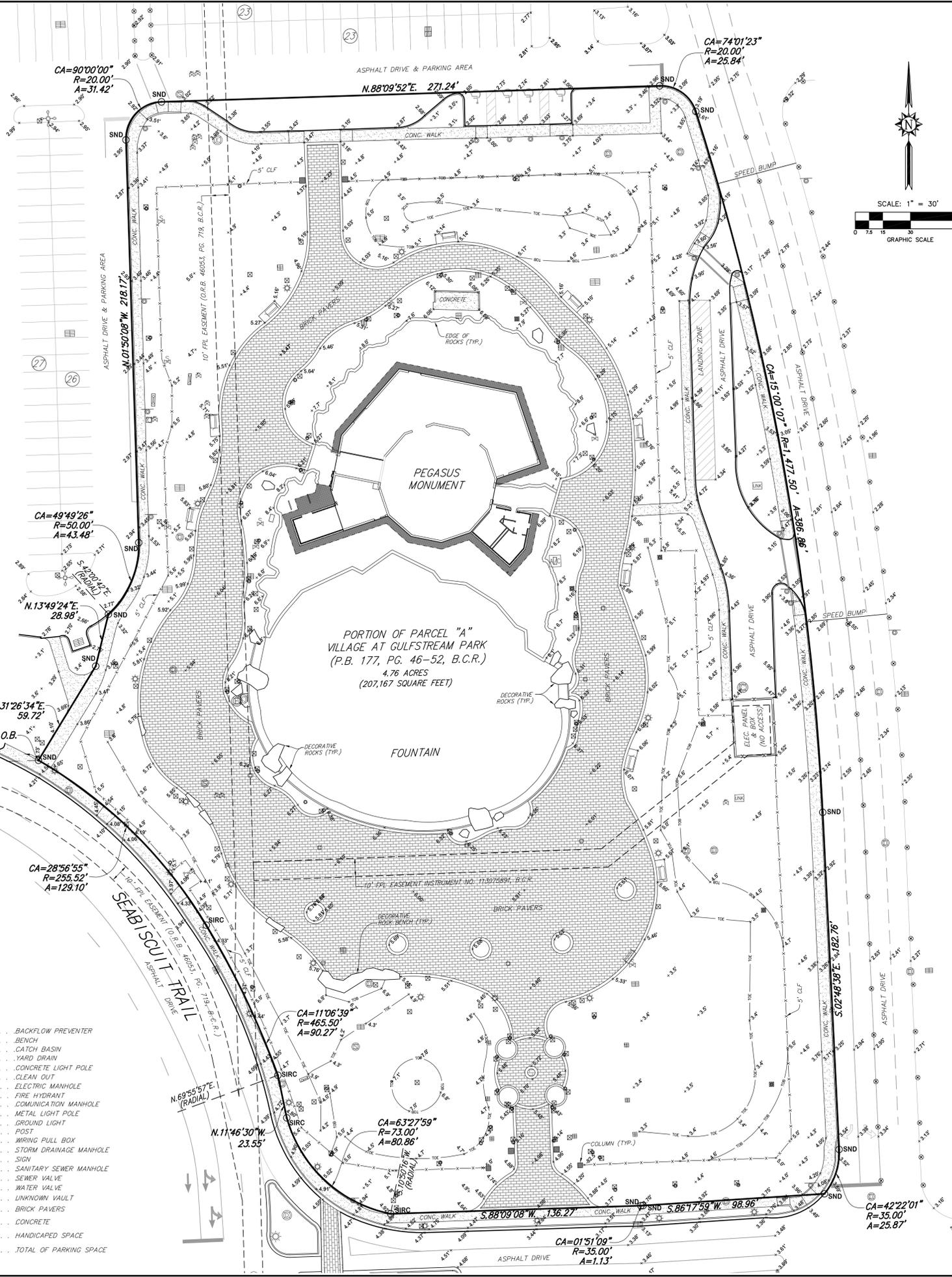
SECTION 27, TOWNSHIP 51S, RANGE 42E

PLANS SCALING NOTE
 ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN
 ALTERED BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING
 SCALED DATA. PLANS REDUCED TO TABLOID (11" X 17") SIZE ARE NOT
 TRUE HALF SCALE AND SHOULD NOT BE SCALED FOR INFORMATION.

LEGAL DESCRIPTION:

A PARCEL OF LAND BEING A PORTION OF PARCEL "A", VILLAGE AT GULFSTREAM PARK, ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK 177, PAGES 46 THRU 52, OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA HAD BEEN MORE PARTICULARLY DESCRIBED AS FOLLOWS:

- COMMENCE AT THE CENTER OF SECTION 27, TOWNSHIP 51 SOUTH, RANGE 42 EAST;
- THENCE N.01°50'08"W ALONG THE WEST LINE OF THE NORTHEAST ONE-QUARTER (N.E.1/4), A DISTANCE OF 4.48 FEET;
- THENCE N.88°09'08"E. A DISTANCE OF 342.23 FEET TO THE POINT OF BEGINNING OF THE HEREIN DESCRIBED PARCEL OF LAND;
- THENCE N.31°26'34"E. A DISTANCE OF 59.72 FEET;
- THENCE N.13°49'24"E. A DISTANCE OF 28.98 FEET TO A POINT ON THE ARC OF A NON-TANGENT CURVE CONCAVE TO THE NORTHWEST, A RADIAL LINE OF SAID CURVE THROUGH SAID POINT HAVING A BEARING OF S.42°00'42"E.;
- THENCE NORTHEASTERLY AND NORTHERLY ALONG THE ARC OF SAID CURVE TO THE LEFT, HAVING A CENTRAL ANGLE OF 49°49'26" AND A RADIUS OF 50.00 FEET TO A POINT OF TANGENCY;
- THENCE N.01°50'08"W A DISTANCE OF 218.17 FEET TO A POINT OF CURVATURE OF A TANGENT CURVE CONCAVE TO THE SOUTHWEST;
- THENCE NORTHERLY, NORTHEASTERLY AND EASTERLY ALONG THE ARC OF SAID CURVE TO THE RIGHT, HAVING A CENTRAL ANGLE OF 90°00'00" AND A RADIUS OF 20.00 FEET FOR AN ARC DISTANCE OF 31.42 FEET TO A POINT OF TANGENCY;
- THENCE N.88°09'08"E ALONG A LINE TANGENT TO THE LAST DESCRIBED CURVE, A DISTANCE OF 271.24 FEET TO A POINT OF CURVATURE OF A TANGENT CURVE CONCAVE TO THE SOUTHWEST;
- THENCE EASTERLY AND SOUTHEASTERLY ALONG THE ARC OF SAID CURVE TO THE RIGHT, HAVING A CENTRAL ANGLE OF 74°01'23" AND A RADIUS OF 20.00 FEET FOR AN ARC DISTANCE OF 25.84 FEET TO A POINT OF COMPOUND CURVATURE OF A TANGENT CURVE CONCAVE TO THE SOUTHWEST;
- THENCE SOUTHEASTERLY AND SOUTHERLY ALONG THE ARC OF SAID CURVE TO THE RIGHT, HAVING A CENTRAL ANGLE OF 15°00'07" AND A RADIUS OF 1477.50 FEET FOR AN ARC DISTANCE OF 386.86 FEET TO A POINT OF TANGENCY;
- THENCE S.02°48'38"E ALONG A LINE TANGENT TO THE LAST DESCRIBED CURVE, A DISTANCE OF 182.76 FEET TO A POINT OF CURVATURE OF A TANGENT CURVE CONCAVE TO THE NORTHWEST;
- THENCE SOUTHERLY AND SOUTHWESTERLY ALONG THE ARC OF SAID CURVE TO THE RIGHT, HAVING A CENTRAL ANGLE OF 42°21'01" AND A RADIUS OF 35.00 FEET FOR AN ARC DISTANCE OF 25.87 FEET TO A POINT ON A NON-TANGENT LINE;
- THENCE S.86°17'59"W A DISTANCE OF 98.96 FEET TO A POINT OF CURVATURE OF A TANGENT CURVE CONCAVE TO THE NORTHEAST;
- THENCE SOUTHWESTERLY ALONG THE ARC OF SAID CURVE TO THE RIGHT, HAVING A CENTRAL ANGLE OF 01°51'09" AND A RADIUS OF 35.00 FEET FOR AN ARC DISTANCE OF 1.13 FEET TO A POINT OF TANGENCY;
- THENCE S.88°09'08"W ALONG A LINE TANGENT TO THE LAST DESCRIBED CURVE, A DISTANCE OF 136.27 FEET, TO A POINT ON THE ARC OF A NON-TANGENT CURVE CONCAVE TO THE NORTHEAST, A RADIAL LINE OF SAID CURVE THROUGH SAID POINT HAVING A BEARING OF S.10°50'16"W.;
- THENCE NORTHWESTERLY ALONG THE ARC OF SAID CURVE TO THE RIGHT, HAVING A CENTRAL ANGLE OF 63°27'59" AND A RADIUS OF 73.00 FEET FOR AN ARC DISTANCE OF 80.86 FEET TO A POINT ON A NON-TANGENT LINE;
- THENCE N.11°46'30"W A DISTANCE OF 23.55 FEET, TO A POINT ON THE ARC OF A NON-TANGENT CURVE CONCAVE TO THE SOUTHWEST, A RADIAL LINE OF SAID CURVE THROUGH SAID POINT HAVING A BEARING OF N.69°25'57"E.;
- THENCE NORTHWESTERLY ALONG THE ARC OF SAID CURVE TO THE LEFT, HAVING A CENTRAL ANGLE OF 11°06'39" AND A RADIUS OF 465.50 FEET FOR AN ARC DISTANCE OF 90.27 FEET TO A POINT OF COMPOUND CURVATURE OF A TANGENT CURVE CONCAVE TO THE SOUTHWEST;
- THENCE NORTHWESTERLY ALONG THE ARC OF SAID CURVE TO THE LEFT, HAVING A CENTRAL ANGLE OF 28°56'55" AND A RADIUS OF 255.32 FEET FOR AN ARC DISTANCE OF 129.10 FEET TO THE POINT OF BEGINNING.
- SAID LANDS SITUATE AND BEING WITHIN THE CITY OF HALLANDALE BEACH, FLORIDA AND CONTAINING 4.76 ACRES (207,167 SQUARE FEET), MORE OR LESS.



SURVEY NOTES:

- THIS SKETCH OF BOUNDARY AND TOPOGRAPHIC SURVEY WAS PREPARED IN ACCORDANCE WITH THE STANDARDS OF PRACTICE FOR SURVEYING ESTABLISHED BY THE BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 5J-17, FLORIDA ADMINISTRATIVE CODES, PURSUANT TO SECTION 472.027, FLORIDA STATUTES.
- THIS SURVEY IS NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.
- A SEARCH OF THE PUBLIC RECORDS FOR OWNERSHIP, EASEMENTS, RIGHTS-OF-WAY, OR OTHER MATTERS OF RECORD WAS NOT PERFORMED BY STONER & ASSOCIATES, INC. THERE MAY BE ADDITIONAL INFORMATION RECORDED IN THE PUBLIC RECORDS THAT IS NOT SHOWN HEREON. FOR FURTHER INFORMATION, CONTACT A QUALIFIED TITLE COMPANY OR CONSULT THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA.
- THE BEARINGS SHOWN HEREON ARE BASED ON N.01°50'08"W, ALONG THE WEST LINE NE 1/4 OF SECTION 27-51-42, AS SHOWN ON THE PLAT OF VILLAGE AT GULFSTREAM PARK, RECORDED IN PLAT BOOK 177, AT PAGES 46 THRU 52, OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA.
- THE ELEVATIONS SHOWN HEREON ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (N.A.V.D. 88), ESTABLISHED FROM FLORIDA DEPARTMENT OF TRANSPORTATION "PARTMENT BENCHMARK 10420", DESCRIBED AS 5/8"IRON ROD & FOOT CAP IN MEDIAN US-1 AT STATION 437+95.58, 36.44 RIGHT PER PROJECT NETWORK CONTROL SURVEY PROJECT ID NO. 403585-1-52-01, ELEVATION=6.385'.
- THE PROPERTY SHOWN HEREON HAS THE FOLLOWING FLOOD ZONE DESIGNATION:
MFP COMMUNITY NAME & COMMUNITY NUMBER: CITY OF HALLANDALE 12510
COUNTY NAME: BROWARD
STATE OF FLORIDA
MAP/PANEL NUMBER: 1201100732
SUFFIX: H
FIRM PANEL EFFECTIVE/REVISED DATE: 08-18-2014
FLOOD ZONE: AE
BASE FLOOD ELEVATION: 6
THE FLOOD ZONE INFORMATION SHOWN HEREON IS BASED UPON THE CURRENT PUBLISHED FLOOD INSURANCE RATE MAP (FIRM) ON THE DATE THIS SURVEY WAS PREPARED. THE DATA CONTAINED IN THE FIRM MAP IS SUBJECT TO CHANGE WITHOUT NOTICE. FOR THE LATEST FLOOD ZONE INFORMATION CONSULT THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) OR YOUR LOCAL GOVERNMENTAL BUILDING DEPARTMENT.
- CERTAIN FEATURES ARE REPRESENTED BY THE SYMBOLS REFLECTED IN THIS MAP. THE LEGEND OF FEATURES MAY HAVE BEEN ENLARGED FOR CLARITY AND MAY NOT REPRESENT THE ACTUAL SHAPE OR SIZE OF THE FEATURE. THE SYMBOLS HAVE BEEN PLOTTED AT THE APPROXIMATE CENTER OF THE FEATURE BASED UPON THE FIELD LOCATION.
- THIS SKETCH IS INTENDED TO BE DISPLAYED AT A HORIZONTAL SCALE OF 1 INCH = 30 FEET.
- THE HORIZONTAL ACCURACY FOR WELL DEFINED IMPROVEMENTS DEPICTED ON THIS SKETCH IS ONE-TENTH (0.1' ±) OF A FOOT, PLUS OR MINUS. THE VERTICAL (ELEVATIONS) ACCURACY FOR WELL DEFINED IMPROVEMENTS, FEATURES, AND SURFACES DEPICTED ON THIS SURVEY IS TWO-TENTHS (0.2' ±) OF A FOOT, PLUS OR MINUS.
- TREES, HEDGES, GROUND COVER, AND OTHER LANDSCAPE FEATURES ARE NOT SHOWN HEREON, UNLESS OTHERWISE NOTED.
- IRRIGATION FEATURES, SUCH AS SPRINKLERS, ARE NOT SHOWN HEREON.
- FENCES AND WALL DIMENSIONS ARE APPROXIMATE. THE SURVEYOR DID NOT DETERMINE OWNERSHIP OF FENCES AND WALLS.
- SUBSURFACE FEATURES ARE NOT SHOWN HEREON. THIS SITE COULD HAVE UNDERGROUND INSTALLATIONS THAT ARE NOT SHOWN HEREON. BEFORE DESIGN, CONSTRUCTION, OR EXCAVATION CONTACT 811 AND/OR THE APPROPRIATE UTILITY COMPANIES FOR FIELD VERIFICATION OF UTILITIES.
- THE DIMENSIONS SHOWN HEREON ARE BASED UPON U.S. SURVEY FEET AND FRACTIONAL PARTS THEREOF.
- AREA COMPUTATIONS, WHEN SHOWN IN ACRES, ARE ROUNDED TO THE NEAREST ONE-HUNDREDTH OF AN ACRE, AND WHEN SHOWN IN SQUARE FEET ARE ROUNDED TO THE NEAREST SQUARE FOOT. THE AREA FIGURES SHOWN HEREON SHOULD NOT BE UTILIZED AS THE BASIS OF PURCHASE PRICE FOR A REAL ESTATE CLOSING, WITHOUT PRIOR VERIFICATION OF THE AREA FIGURES, IN WRITING FROM THE SIGNING SURVEYOR.
- THE SURVEYOR DID NOT INSPECT THIS PROPERTY FOR ENVIRONMENTAL HAZARDS.
- THE INFORMATION DEPICTED ON THIS SKETCH OF SURVEY REPRESENTS THE RESULTS OF A FIELD SURVEY ON THE DATE INDICATED ON THE BORDER OF THE DRAWING AND CAN ONLY BE CONSIDERED VALID FOR THIS DATE AND INDICATES THE GENERAL CONDITIONS EXISTING AT THE TIME OF THE FIELD SURVEY.
- THIS SKETCH OF SURVEY CANNOT BE RELIED UPON BY PERSONS OR ENTITIES OTHER THAN THOSE PERSONS OR ENTITIES CERTIFIED TO HEREON. ADDITIONS OR DELETIONS TO THIS SURVEY AND/OR REPORTS BY PEOPLE OR PERSONS OTHER THAN THE SIGNING PARTIES ARE PROHIBITED WITHOUT PRIOR WRITTEN CONSENT OF THE SIGNING PARTY OR PARTIES.
- THE INFORMATION CONTAINED IN THIS DOCUMENT WAS PREPARED BY STONER & ASSOCIATES, INC. (S&A). S&A HAS TAKEN PRECAUTIONS TO ENSURE THE ACCURACY OF THIS DOCUMENT AND THE DATA REFLECTED HEREIN. S&A CANNOT GUARANTEE THAT ALTERATIONS AND/OR MODIFICATIONS WILL NOT BE MADE TO THE DATA CONTAINED IN THIS DOCUMENT BY OTHERS AFTER IT LEAVES OUR POSSESSION. THIS DOCUMENT MUST BE COMPARED TO THE ORIGINAL HARD COPY (WHICH BEARS THE RAISED SURVEYOR'S CERTIFICATION SEAL) TO ENSURE THE ACCURACY OF THE INFORMATION CONTAINED HEREON AND TO FURTHER ENSURE THAT ALTERATIONS AND/OR MODIFICATIONS HAVE NOT BEEN MADE. S&A MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, CONCERNING THE ACCURACY OF THE INFORMATION CONTAINED IN THIS OR ANY DOCUMENT TRANSMITTED OR REVIEWED BY COMPUTER OR OTHER ELECTRONIC MEANS. CONTACT S&A FOR VERIFICATION OF ACCURACY.

CERTIFIED TO:

GULFSTREAM PARK RACING ASSOCIATION, INC.

SURVEYOR'S CERTIFICATE:

THIS IS TO CERTIFY THAT THIS SKETCH OF BOUNDARY AND TOPOGRAPHIC SURVEY WAS MADE UNDER MY RESPONSIBLE CHARGE AND IS ACCURATE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I FURTHER CERTIFY THAT THIS SKETCH BEARS THE STANDARDS OF PRACTICE ESTABLISHED BY THE BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS, CHAPTER 5J-17, FLORIDA ADMINISTRATIVE CODES, PURSUANT TO SECTION 472.027, FLORIDA STATUTES.

DATE OF SIGNATURE: 6/10/16

RICHARD G. CRAWFORD, JR.
PROFESSIONAL SURVEYOR AND MAPPER NO. 5371
STATE OF FLORIDA
STONER AND ASSOCIATES, INC. L.B. 6633
rcrawford@stonersurveyors.com

SOUTH FEDERAL HIGHWAY

ABBREVIATIONS:

B.C.R.	BROWARD COUNTY RECORDS
O.R.B.	OFFICIAL RECORDS BOOK
D.B.	DEED BOOK
I.D.	IDENTIFICATION
P.B.	PLAT BOOK
PG.	PAGE
PLS.	PROFESSIONAL LAND SURVEYOR
L.B.	LICENSED BUSINESS
F.D.O.T.	FLORIDA DEPARTMENT OF TRANSPORTATION
R/W	RIGHT OF WAY
SIRC	SET 5/8" IRON ROD & CAP L.B.# 6633
SND	SET NAIL & DISC L.B.# 6633
CA	CENTRAL ANGLE
R	RADIUS
A	ARC LENGTH
CONC.	CONCRETE
FPL	FLORIDA POWER & LIGHT COMPANY
(TYP.)	TYPICAL
P.O.C.	POINT OF COMMENCEMENT
P.O.B.	POINT OF BEGINNING
—	BREAK IN LINE SCALE

LEGEND:

	BACKFLOW PREVENTER
	BENCH
	CATCH BASIN
	YARD DRAIN
	CONCRETE LIGHT POLE
	CLEAN OUT
	ELECTRIC MANHOLE
	FIRE HYDRANT
	COMMUNICATION MANHOLE
	METAL LIGHT POLE
	GROUND LIGHT
	POST
	WIRING PULL BOX
	STORM DRAINAGE MANHOLE
	SIGN
	SANITARY SEWER MANHOLE
	SEWER VALVE
	WATER VALVE
	UNKNOWN VAULT
	BRICK PAVERS
	CONCRETE
	HANDICAPPED SPACE
	TOTAL OF PARKING SPACE

NO.	REVISION	DATE	BY:

TEL (954) 585-0997
www.stonersurveyors.com

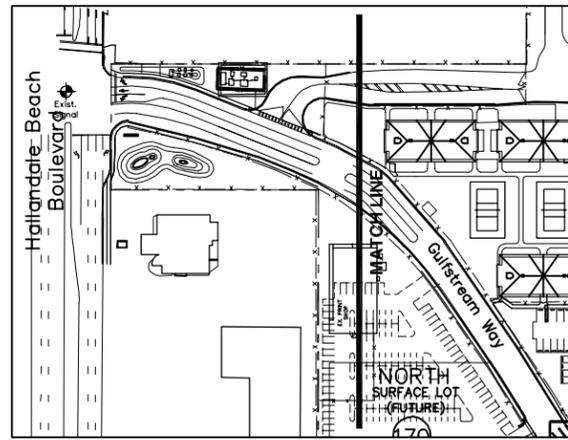
STONER & ASSOCIATES, Inc.
SURVEYORS — MAPPERS
Florida Licensed Surveying
and Mapping Business No. 6633
4341 S.W. 62nd AVENUE, TOWN OF DAVIE, FLORIDA 33314

SKETCH OF BOUNDARY AND TOPOGRAPHIC SURVEY
PEGASUS SITE
VILLAGE AT GULFSTREAM PARK
(P.B. 177, PG 46 THRU 52, B.C.R.)
CITY OF HALLANDALE BEACH, BROWARD COUNTY, FLORIDA

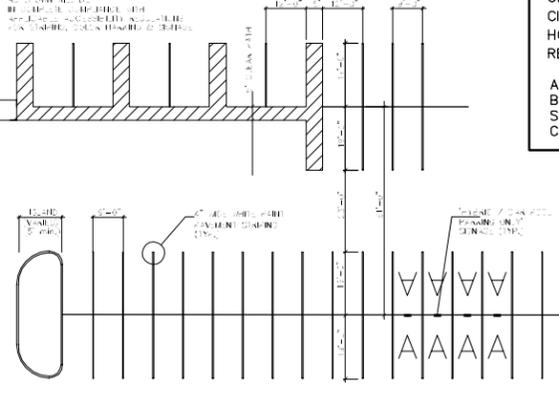
LAST DATE OF FIELD SURVEY	6/10/16
DRAWN: DRL	
CHECKED: RGC	
BOOK/PAGE(S): FB/PAG	
& DATA COLLECTOR	

SEAL
NOT VALID UNLESS SEALED HERE WITH AN EMBOSSED SURVEYOR'S SEAL

PROJECT
12-7854
PEGASUS
SHEET NO.
1 OF 1



NOTE:
 1. ALL APPLICABLE REGULATORY AGENCIES MUST BE CONSULTED AND ALL REQUIREMENTS MET.
 2. ALL APPLICABLE REGULATORY AGENCIES MUST BE CONSULTED AND ALL REQUIREMENTS MET.
 3. ALL APPLICABLE REGULATORY AGENCIES MUST BE CONSULTED AND ALL REQUIREMENTS MET.



BUILDING DATA

MAXIMUM PERMITTED DEVELOPMENT AREAS

RETAIL (SF)	750,000
OFFICE (SF)	140,000
CINEMA (Seats)	2,500
HOTEL (Rooms)	500
RESIDENTIAL (Units)	1,500

ALL PARKING REQUIREMENTS ARE SUBJECT TO APPROVAL BY THE CITY BASED UPON A PARKING ANALYSIS TO BE SUBMITTED THAT WILL ADDRESS THE MIX, USES INTERNAL CAPTURE AND OTHER CONSIDERATIONS.

JOSEPH ROLES AND ASSOC., INC.
 CONSULTING ENGINEERS
 7601 N.W. 4th STREET, SUITE 101
 PLANTATION, FLORIDA 33317
 PHONE (954) 581-1848
 CERTIFICATE OF AUTHORIZATION NO. 58-64

SITE PLAN UPDATE FOR PHASE 3
 BY JOSEPH ROLES AND ASSOC.,
 INC. SITE PLAN BASED ON
 PREVIOUSLY APPROVED SITE PLAN
 AS PREPARED BY KA ARCHITECTS.

SITE PARKING AND BUILDING DATA

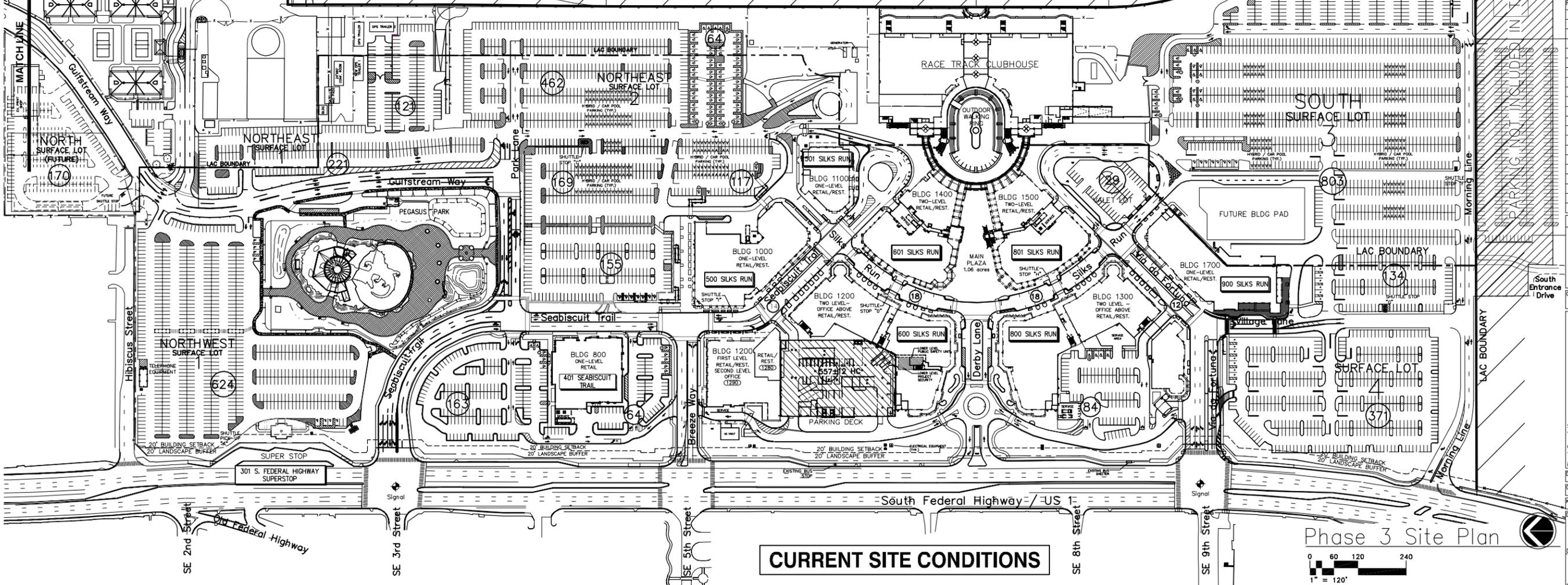
MIXED USE DEVELOPMENT W/ CASINO (1500 slot machines)
 PARKING REQUIRED PER TRAFFIC STUDY

RACETRACK/CASINO REQUIRED PARKING	GLA	PARKING
PATRON PARKING	-	2,348 spaces
EMPLOYEE PARKING	-	482 spaces
TOTAL RACE TRACK DEVELOPMENT:	-	2,830 spaces
MIXED-USE PHASE 2		2,830 spaces
RETAIL	± 244,793 sf	756 spaces
FURNISHINGS	± 72,478 sf	168 spaces
RESTAURANT	± 72,424 sf	657 spaces
OFFICE	± 81,524 sf	17 spaces
NIGHT CLUB	± 10,000 sf	2 spaces
TOTAL MIXED USE DEVELOPMENT:	±481,209 sf	1,600 spaces
City Approved Phase 1 Mixed-Use Development - 430,814 sf 1600 building demolished		1,600 spaces
RECREATIONAL USE PHASE 3		
PEGASUS PARK STATUE BUILDING	9,211 sf	22 spaces
TOTAL RECREATIONAL USE DEVELOPMENT:		22 spaces
RESIDENTIAL USE		
NONE		0 spaces
TOTAL PARKING REQUIRED		0 spaces
TOTAL PARKING PROVIDED		
RACE TRACK/CASINO/MIXED-USE	-	4,430 spaces
RECREATIONAL USE	-	22 spaces
RESIDENTIAL USE	-	0 spaces
TOTAL ON-SITE PARKING REQUIRED:		4,452 spaces
TOTAL PARKING PROVIDED		
ON-GRADE PARKING	-	3,942 spaces
HYBRID / CAR POOL PARKING	-	281 spaces
ADA HANDICAP PARKING	-	147 spaces
20 + 1 for each 100 over 1000 = ±79 ADA spaces required	-	-
1 Van accessible space for every 8 ADA spaces (24 spaces req'd)	-	-
NORTH PARKING	-	170 spaces
BLDG 1200 PARKING DECK	-	557 spaces
TOTAL PARKING PROVIDED:		5,097 spaces

TYPICAL PARKING DETAIL

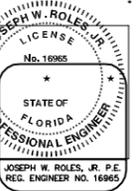
GULFSTREAM RACE TRACK

TRACK & BARN FACILITY NOT INCLUDED (EXCEPT PARKING COUNT)



CURRENT SITE CONDITIONS

Phase 3 Site Plan



The Village at
 Gulfstream Park
 Hallandale Beach, Florida
 Gulfstream Park, LLC

Original Issue Date: 12/20/05

Revisions

No.	Date/Description
1	UPDATED PARKING/ ADDED F.G.R.U.
2	07/28/13 DRC COMMENTS
3	2/10/14 ADDED CONDO, BARN
4	4/4/14 REVISED GARAGE COUNT
5	2/5/16 REVISED PEGASUS LOT; GENERAL UPDATE
6	5/4/16 ADDED PAVILION / DELETE CONDO

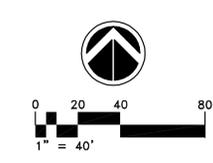
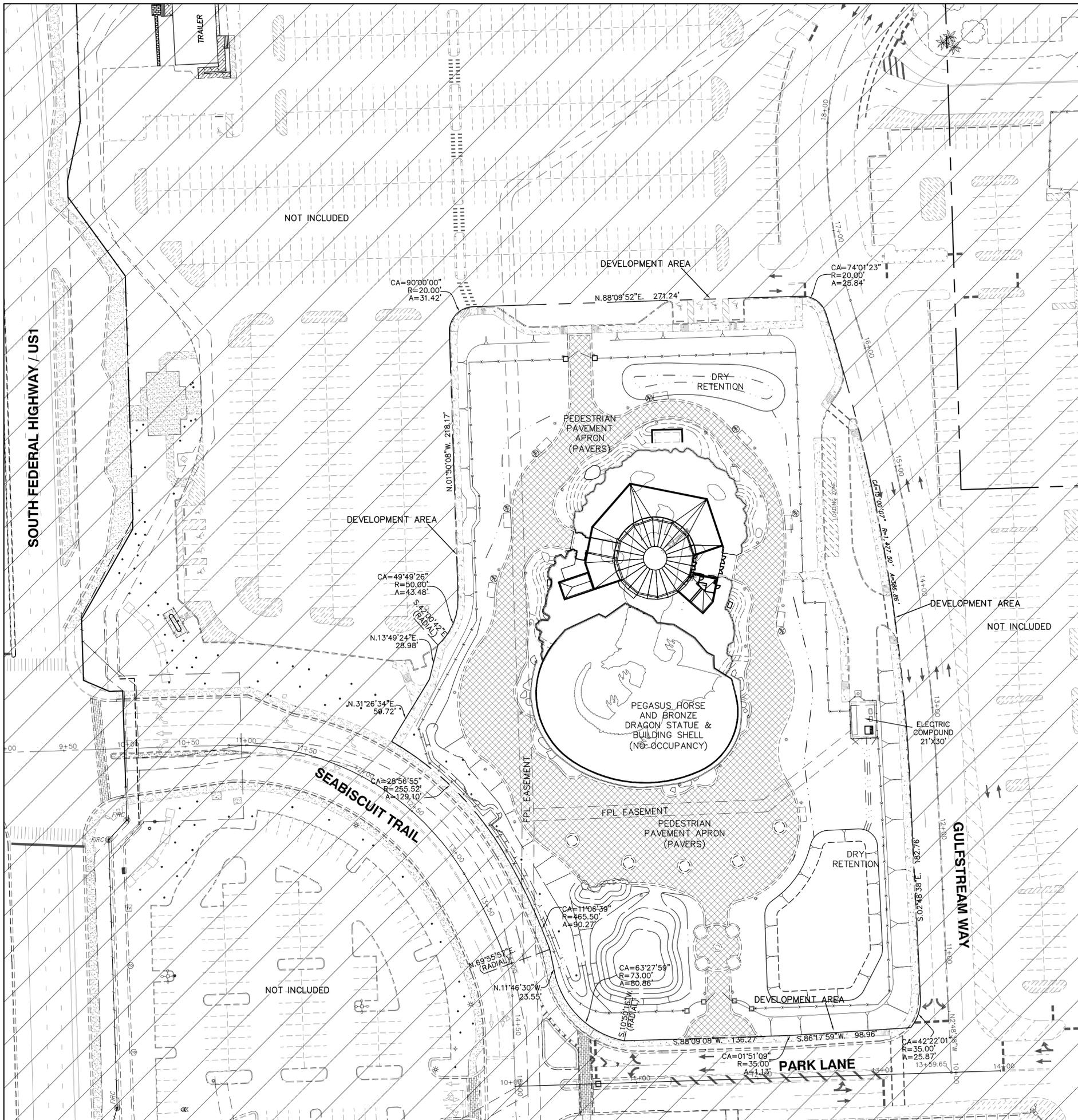
Authorized User:

- Design Development
- Progress
- Bidding
- Building Permit
- Construction
- City Submission

Current Date: 12/22/16

PHASE 3 SITE PLAN
 SCALE: 1" = 120'

Drawn By: JWR
 Checked By: JWR
 KA/JP
 Drawing #
 SP-1 of 6
 Discipline Phase #
 Division # Sheet #



SITE DATA - MODIFICATION AREA

EXISTING & PROPOSED ZONING	PLAC
EXISTING & PROPOSED LAND USE	COMMERCIAL/LOCAL ACTIVITY CENTER
SITE PLAN DEVELOPMENT AREA	207,167 SF (4.8± AC.)

PROPERTY DEVELOPMENT

SITE USE	EXISTING SITE	
	SQ. FT.	% COVERAGE
BUILDINGS FOOTPRINT	9,211 S.F.	4.4%
STUCCO ROCK FORMATION	10,257 S.F.	5.0%
SIDEWALKS	9,710 S.F.	4.7%
PEDESTRIAN WALK	46,586 S.F.	22.5%
PAVEMENT	9,594 S.F.	4.6%
WATER FEATURE	18,010 S.F.	8.7%
ELECTRICAL COMPOUND (PERVIOUS)	630 S.F.	0.3%
LANDSCAPE	103,169 S.F.	49.8%
TOTAL SITE COVERAGE	207,167 S.F.	100%

PERVIOUS/IMPERVIOUS SUMMARY:

	EXISTING SITE	REVISED SITE
TOTAL PERVIOUS AREA	103,799 S.F.	50.1%
TOTAL IMPERVIOUS AREA	103,368 S.F.	49.9%

EXISTING BUILDING HEIGHT: 42' TO TOP OF DOME

LEGAL DESCRIPTION FOR SITE PLAN DEVELOPMENT AREA:

A PARCEL OF LAND BEING A PORTION OF PARCEL "A", VILLAGE AT GULFSTREAM PARK, ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK 177, PAGES 46 THROUGH 52, OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA HAVING BEEN MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE CENTER OF SECTION 27, TOWNSHIP 51 SOUTH, RANGE 42 EAST;

THENCE N.01°50'08"W. A DISTANCE OF 4.48 FEET;

THENCE N.88°09'08"E. A DISTANCE OF 342.23 FEET TO THE POINT OF BEGINNING OF THE HEREIN DESCRIBED PARCEL OF LAND;

THENCE N.31°26'34"E. A DISTANCE OF 59.72 FEET;

THENCE N.13°49'24"E. A DISTANCE OF 28.98 FEET TO A POINT ON THE ARC OF A NON-TANGENT CURVE CONCAVE TO THE NORTHWEST, A RADIAL LINE OF SAID CURVE THROUGH SAID POINT HAVING A BEARING OF S.42°00'42"E.;

THENCE NORTHEASTERLY AND NORTHERLY ALONG THE ARC OF SAID CURVE TO THE LEFT, HAVING A CENTRAL ANGLE OF 49°49'26" AND A RADIUS OF 50.00 FEET FOR AN ARC DISTANCE OF 43.48 FEET TO A POINT OF TANGENCY;

THENCE N.01°50'08"W. A DISTANCE OF 218.17 FEET TO A POINT OF CURVATURE OF A TANGENT CURVE CONCAVE TO THE SOUTHEAST;

THENCE NORTHERLY, NORTHEASTERLY AND EASTERLY ALONG THE ARC OF SAID CURVE TO THE RIGHT, HAVING A CENTRAL ANGLE OF 90°00'00" AND A RADIUS OF 20.00 FEET FOR AN ARC DISTANCE OF 31.42 FEET TO A POINT OF TANGENCY;

THENCE N.88°09'52"E. ALONG A LINE TANGENT TO THE LAST DESCRIBED CURVE, A DISTANCE OF 271.24 FEET TO A POINT OF CURVATURE OF A TANGENT CURVE CONCAVE TO THE SOUTHWEST;

THENCE EASTERLY AND SOUTHEASTERLY ALONG THE ARC OF SAID CURVE TO THE RIGHT, HAVING A CENTRAL ANGLE OF 74°01'23" AND A RADIUS OF 20.00 FEET FOR AN ARC DISTANCE OF 25.84 FEET TO A POINT OF COMPOUND CURVATURE OF A TANGENT CURVE CONCAVE TO THE SOUTHWEST;

THENCE SOUTHEASTERLY AND SOUTHERLY ALONG THE ARC OF SAID CURVE TO THE RIGHT, HAVING A CENTRAL ANGLE OF 15°00'07" AND A RADIUS OF 1477.50 FEET FOR AN ARC DISTANCE OF 386.86 FEET TO A POINT OF TANGENCY;

THENCE S.02°48'38"E. ALONG A LINE TANGENT TO THE LAST DESCRIBED CURVE, A DISTANCE OF 182.76 FEET TO A POINT OF CURVATURE OF A TANGENT CURVE CONCAVE TO THE NORTHWEST;

THENCE SOUTHERLY AND SOUTHWESTERLY ALONG THE ARC OF SAID CURVE TO THE RIGHT, HAVING A CENTRAL ANGLE OF 42°21'01" AND A RADIUS OF 35.00 FEET FOR AN ARC DISTANCE OF 25.87 FEET TO A POINT ON A NON-TANGENT LINE;

THENCE S.86°17'59"W. A DISTANCE OF 98.96 FEET TO A POINT OF CURVATURE OF A TANGENT CURVE CONCAVE TO THE NORTHEAST;

THENCE SOUTHWESTERLY ALONG THE ARC OF SAID CURVE TO THE RIGHT, HAVING A CENTRAL ANGLE OF 01°51'09" AND A RADIUS OF 35.00 FEET FOR AN ARC DISTANCE OF 1.13 FEET TO A POINT OF TANGENCY;

THENCE S.88°09'08"W. ALONG A LINE TANGENT TO THE LAST DESCRIBED CURVE, A DISTANCE OF 136.27 FEET, TO A POINT ON THE ARC OF A NON-TANGENT CURVE CONCAVE TO THE NORTHEAST, A RADIAL LINE OF SAID CURVE THROUGH SAID POINT HAVING A BEARING OF N.69°55'57"E.;

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THENCE N.11°46'30"W. A DISTANCE OF 23.55 FEET, TO A POINT ON THE ARC OF A NON-TANGENT CURVE CONCAVE TO THE SOUTHWEST, A RADIAL LINE OF SAID CURVE THROUGH SAID POINT HAVING A BEARING OF N.69°55'57"E.;

THENCE NORTHWESTERLY ALONG THE ARC OF SAID CURVE TO THE LEFT, HAVING A CENTRAL ANGLE OF 11°06'39" AND A RADIUS OF 465.50 FEET FOR AN ARC DISTANCE OF 90.27 FEET TO A POINT OF COMPOUND CURVATURE OF A TANGENT CURVE CONCAVE TO THE SOUTHWEST;

THENCE NORTHWESTERLY ALONG THE ARC OF SAID CURVE TO THE LEFT, HAVING A CENTRAL ANGLE OF 28°56'55" AND A RADIUS OF 255.52 FEET FOR AN ARC DISTANCE OF 129.10 FEET TO THE POINT OF BEGINNING.

SAID LANDS SITUATE AND BEING WITHIN THE CITY OF HALLANDALE BEACH, FLORIDA AND CONTAINING 4.76 ACRES (207,167 SQUARE FEET), MORE OR LESS.

LEAVE BLANK - FOR CITY USE ONLY

JOSEPH ROLES AND ASSOC., INC.
CONSULTING ENGINEERS
7501 N.W. 4th STREET, SUITE 101
PLANTATION, FLORIDA 33317
PHONE (954) 581-1945
CERTIFICATE OF AUTHORIZATION NO. 3948

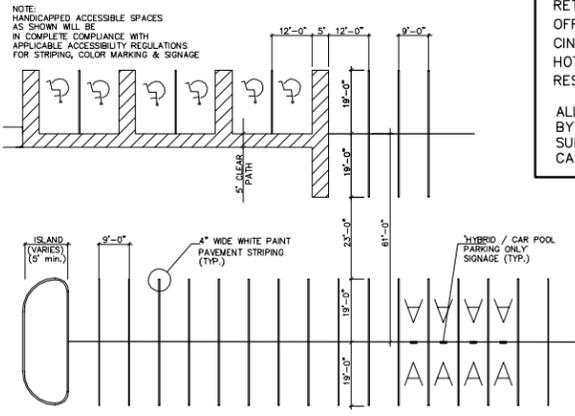
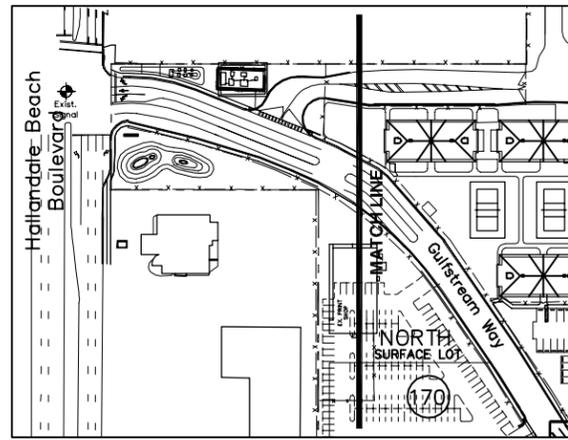
PEGASUS PARK PAVILION
GULFSTREAM PARK
HALLANDALE BEACH, FLORIDA
CURRENT PEGASUS SITE PLAN

DATE:	SCALE:	AS SHOWN:	PROJECT NO.:	DESIGNED BY:	DRAWN BY:	CHECKED BY:	DATE:
04/2016	1/8" = 1'-0"	AS SHOWN	102-426-3B	JWR	JK	JWR	04/16

SHEET NO. **SP-20F 6**

NO. DATE BY

REVISIONS



BUILDING DATA

MAXIMUM PERMITTED DEVELOPMENT AREAS	
RETAIL (SF)	750,000
OFFICE (SF)	140,000
CINEMA (Seats)	2,500
HOTEL (Rooms)	500
RESIDENTIAL (Units)	1,500

ALL PARKING REQUIREMENTS ARE SUBJECT TO APPROVAL BY THE CITY BASED UPON A PARKING ANALYSIS TO BE SUBMITTED THAT WILL ADDRESS THE MIX, USES INTERNAL CAPTURE AND OTHER CONSIDERATIONS.

JOSEPH ROLES AND ASSOC., INC.
CONSULTING ENGINEERS
 7601 N.W. 4th STREET, SUITE 101
 PLANTATION, FLORIDA 33317
 PHONE (954) 581-8448
 CERTIFICATE OF AUTHORIZATION NO. 5948

SITE PLAN UPDATE FOR PHASE 3
 BY JOSEPH ROLES AND ASSOC.,
 INC. SITE PLAN BASED ON
 PREVIOUSLY APPROVED SITE PLAN
 AS PREPARED BY KA ARCHITECTS.

SITE PARKING AND BUILDING DATA

MIXED USE DEVELOPMENT W/ CASINO (1500 slot machines)		
PARKING REQUIRED PER TRAFFIC STUDY		
RACETRACK/CASINO REQUIRED PARKING	GLA	PARKING
PATRON PARKING	-	2,348 spaces
EMPLOYEE PARKING	-	482 spaces
TOTAL RACE TRACK DEVELOPMENT:	-	2,830 spaces
MIXED-USE PHASE 2		
RETAIL	± 244,793 sf	756 spaces
FURNISHINGS	± 72,478 sf	168 spaces
RESTAURANT	± 72,424 sf	657 spaces
OFFICE	± 81,524 sf	17 spaces
NIGHT CLUB	± 10,000 sf	2 spaces
TOTAL MIXED USE DEVELOPMENT:	±481,209 sf	1,600 spaces
City Approved Phase 1 Mixed-Use Development	= 436,814 sf	1,600 spaces
1600 building demolished	-	-
RECREATIONAL USE PHASE 3		
PEGASUS PARK STATUE BUILDING	9,211 sf	22 spaces
PEGASUS PAVILION	2,763 sf	38 spaces
TOTAL RECREATIONAL USE DEVELOPMENT:	11,974 sf	60 spaces
RESIDENTIAL USE		
NONE	-	0 spaces
TOTAL PARKING REQUIRED	-	0 spaces
TOTAL ON-SITE PARKING REQUIRED:		
RACE TRACK/CASINO/MIXED-USE	-	4,430 spaces
RECREATIONAL USE	-	60 spaces
RESIDENTIAL USE	-	0 spaces
TOTAL ON-SITE PARKING REQUIRED:	-	4,490 spaces
TOTAL PARKING PROVIDED		
ON-GRADE PARKING	-	3,906 spaces
HYBRID / CAR POOL PARKING	-	317 spaces
ADA HANDICAP PARKING	-	147 spaces
20 + 1 for each 100 over 1000 = ±79 ADA spaces required	-	-
1 Van accessible space for every 8 ADA spaces (24 spaces req'd)	-	-
NORTH PARKING	-	170 spaces
BLDG 1200 PARKING DECK	-	557 spaces
TOTAL PARKING PROVIDED:	-	5,097 spaces

AUG. 3, 2016
 LICENSE
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 JOSEPH W. ROLES, JR., P.E.
 REG. ENGINEER NO. 16965

KA
 KA ARCHITECTS
 10000 W. BOULEVARD, SUITE 400
 WEST PALM BEACH, FLORIDA 33411
 TEL: 561.833.1111
 WWW.KAARCHITECTS.COM

The Village at
 Gulfstream Park
 Hallandale Beach, Florida
 Gulfstream Park, LLC

Original Issue Date: 12/03/05

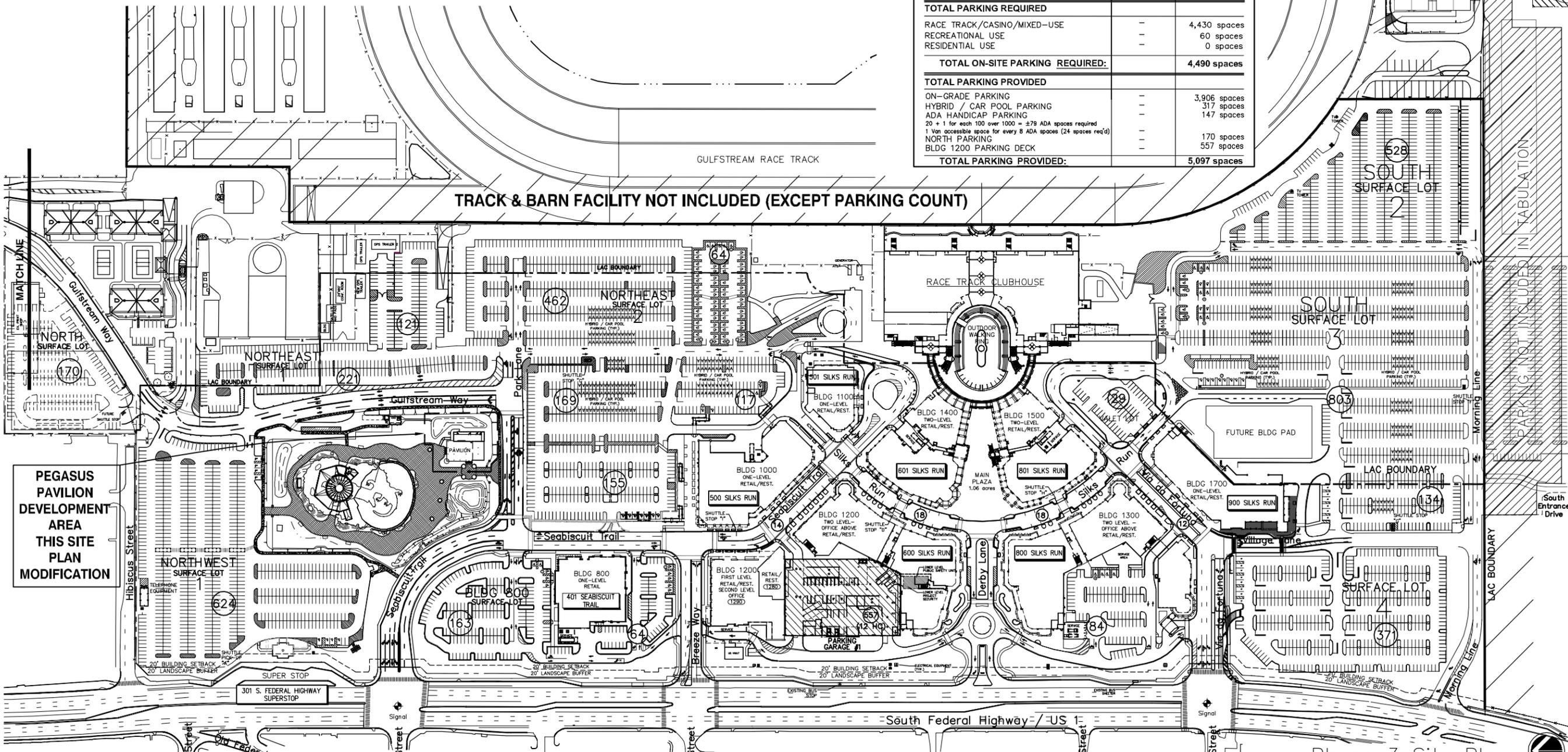
Revisions

No.	Date/Description
1	UPDATED PARKING/ ADDED F.G.R.U.
2	07/28/13 DRC COMMENTS
3	2/10/14 ADDED CONDO, BARN
4	4/4/14 REVISED GARAGE COUNT
5	2/5/16 REVISED PEGASUS LOT; GENERAL UPDATE
6	5/4/16 ADDED PAVILION / DELETE CONDO
7	8/2/16 DRC COMMENTS

Authorized Use:

- Design Development
- Progress
- Bidding
- Building Permit
- Construction
- City Submission

Current Date: 12/03/16



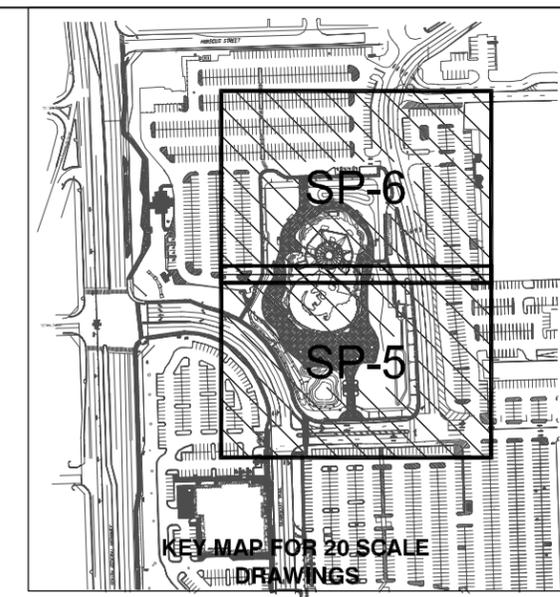
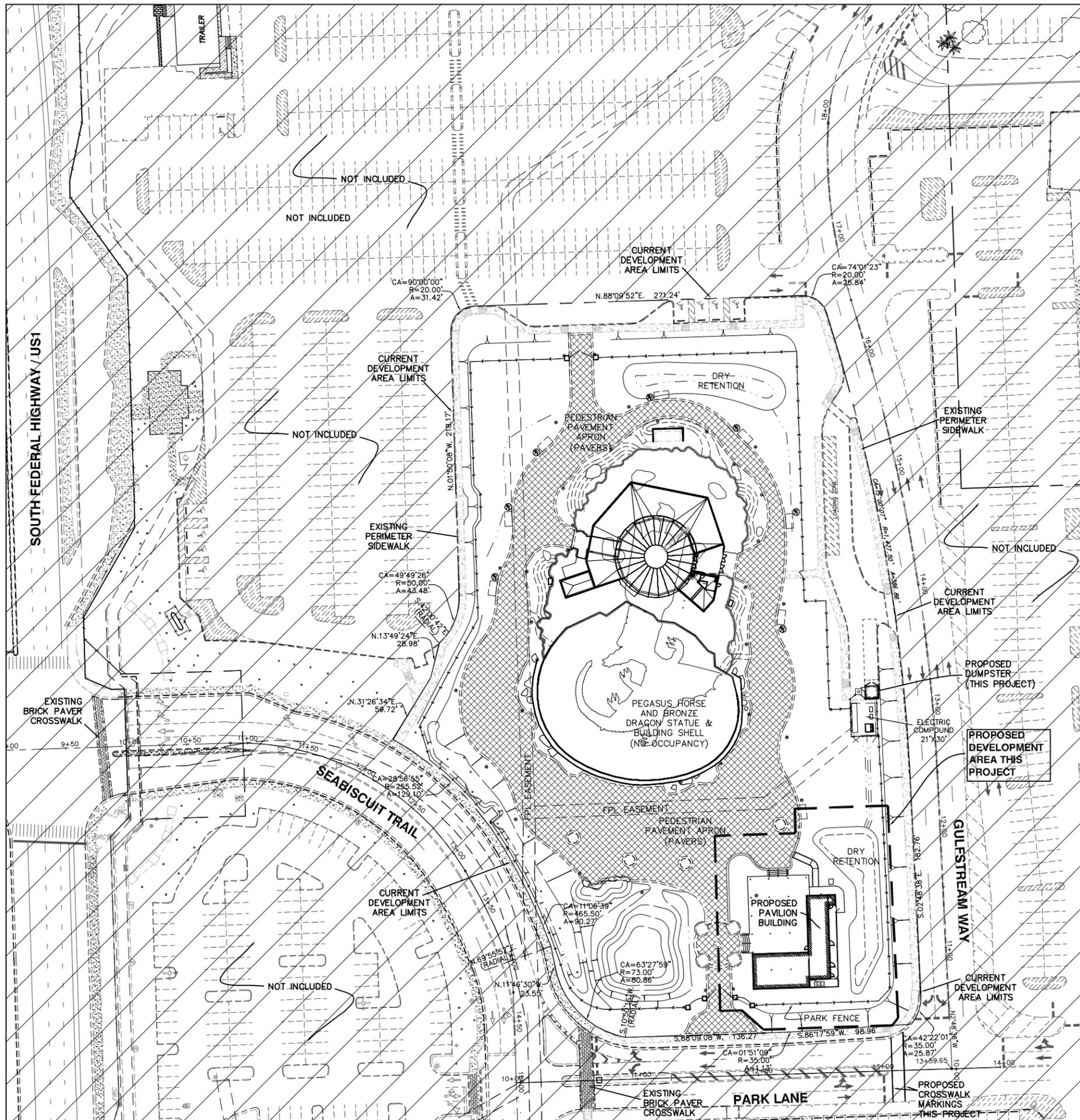
TRACK & BARN FACILITY NOT INCLUDED (EXCEPT PARKING COUNT)

PEGASUS PAVILION DEVELOPMENT AREA THIS SITE PLAN MODIFICATION

PROPOSED SITE CONDITIONS



Sheet Description:
PHASE 3 SITE PLAN
 SCALE: 1" = 120'
 Drawn By: JWR
 Checked By: JWR
 KA/PC
 Drawing #
 SP-3 of 6
 Discipline Phase #
 Division # Sheet #



SITE DATA - MODIFICATION AREA

EXISTING & PROPOSED ZONING	PLAC
EXISTING & PROPOSED LAND USE	COMMERCIAL/LOCAL ACTIVITY CENTER
SITE PLAN DEVELOPMENT AREA	207,167 SF (4.8± AC.)

PROPERTY DEVELOPMENT

SITE USE	EXISTING SITE		CHANGE		REVISED SITE	
	SQ. FT.	% COVERAGE	SQ. FT.	SQ. FT.	SQ. FT.	% COVERAGE
BUILDINGS FOOTPRINT	9,211 S.F.	4.4%	2,763 S.F.	11,794 S.F.	5.8%	
STUCCO ROCK FORMATION	10,257 S.F.	5.0%	0 S.F.	10,257 S.F.	5.0%	
SIDEWALKS	9,710 S.F.	4.7%	1,022 S.F.	10,732 S.F.	5.2%	
PEDESTRIAN WALK	46,568 S.F.	22.5%	(-947 S.F.)	45,639 S.F.	22.0%	
EXTENDED BLDG OVERHANG	0 S.F.	0%	3,101 S.F.	3,101 S.F.	1.5%	
DUMPSTER ENCLOSURE	0 S.F.	0%	121 S.F.	121 S.F.	0.1%	
PAVEMENT	9,594 S.F.	4.6%	0 S.F.	9,594 S.F.	4.6%	
WATER FEATURE	18,010 S.F.	8.7%	0 S.F.	18,010 S.F.	8.7%	
ELECTRICAL COMPOUND (PERVIOUS)	630 S.F.	0.3%	0 S.F.	630 S.F.	0.3%	
LANDSCAPE	103,169 S.F.	49.8%	6,060 S.F.	97,109 S.F.	46.8%	
TOTAL SITE COVERAGE	207,167 S.F.	100%	0 S.F.	207,167 S.F.	100%	

PERVIOUS/IMPERVIOUS SUMMARY:

TOTAL PERVIOUS AREA	97,109 S.F.	46.9%
TOTAL IMPERVIOUS AREA	110,058 S.F.	53.1%

EXISTING BUILDING HEIGHT: 42' TO TOP OF DOME

LEGAL DESCRIPTION FOR SITE PLAN DEVELOPMENT AREA:

A PARCEL OF LAND BEING A PORTION OF PARCEL "A", VILLAGE AT GULFSTREAM PARK, ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK 177, PAGES 46 THROUGH 52, OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA HAD BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE CENTER OF SECTION 27, TOWNSHIP 51 SOUTH, RANGE 42 EAST;

THENCE N.01°50'08"W. ALONG THE WEST LINE OF THE NORTHEAST ONE-QUARTER (N.E.1/4), A DISTANCE OF 4.48 FEET;

THENCE N.88°09'52"E. A DISTANCE OF 342.23 FEET TO THE POINT OF BEGINNING OF THE HERIN DESCRIBED PARCEL OF LAND;

THENCE N.31°26'34"E. A DISTANCE OF 59.72 FEET;

THENCE N.13°49'24"E. A DISTANCE OF 28.98 FEET TO A POINT ON THE ARC OF A NON-TANGENT CURVE CONCAVE TO THE NORTHWEST, A RADIAL LINE OF SAID CURVE THROUGH SAID POINT HAVING A BEARING OF S.42°00'42"E.;

THENCE NORTHEASTERLY AND NORTHERLY ALONG THE ARC OF SAID CURVE TO THE LEFT, HAVING A CENTRAL ANGLE OF 49°49'28" AND A RADIUS OF 50.00 FEET FOR AN ARC DISTANCE OF 43.48 FEET TO A POINT OF TANGENCY;

THENCE N.01°50'08"W. A DISTANCE OF 218.17 FEET TO A POINT OF CURVATURE OF A TANGENT CURVE CONCAVE TO THE SOUTHEAST;

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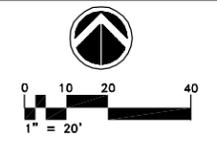
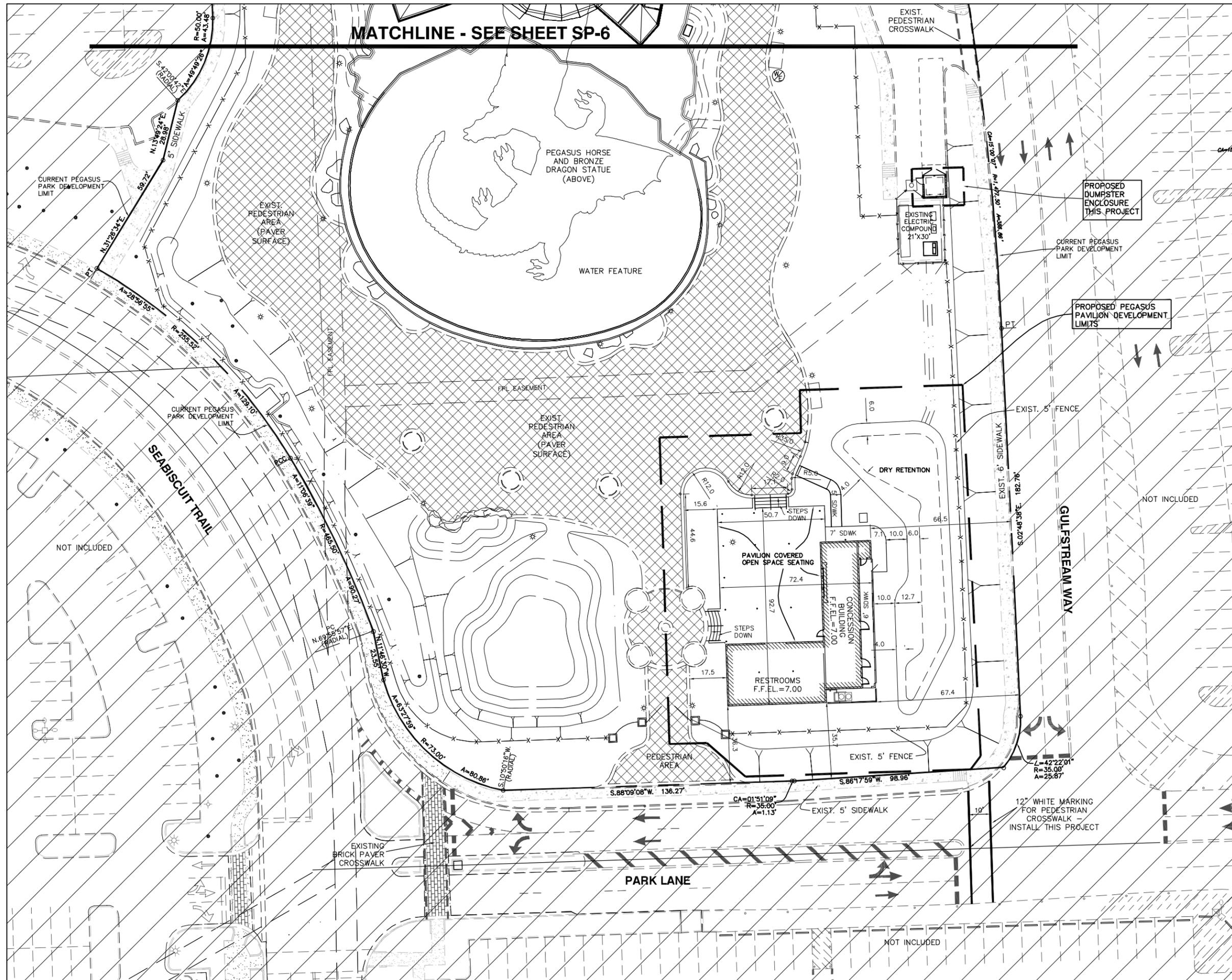
NO.	DATE	BY
1	8/2/16	JWR

JOSEPH ROLES AND ASSOC., INC.
CONSULTING ENGINEERS
7501 N.W. 4th STREET, SUITE 101
PLANTATION, FLORIDA 33317
PHONE (954) 581-1946
CERTIFICATE OF AUTHORIZATION NO. 3948



PEGASUS PARK PAVILION
GULFSTREAM PARK
HALLANDALE BEACH, FLORIDA
PROPOSED PEGASUS SITE PLAN

DATE:	04/2016
SCALE:	AS SHOWN
PROJECT NO.:	102-426-36
DESIGNED BY:	JWR
DRAWN BY:	JK
CHECKED BY:	JWR
DATE:	04/16
DATE:	04/16
DATE:	04/16



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NO.	DATE	BY
1	8/2/16	JWR

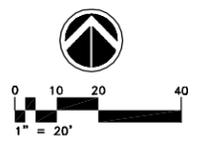
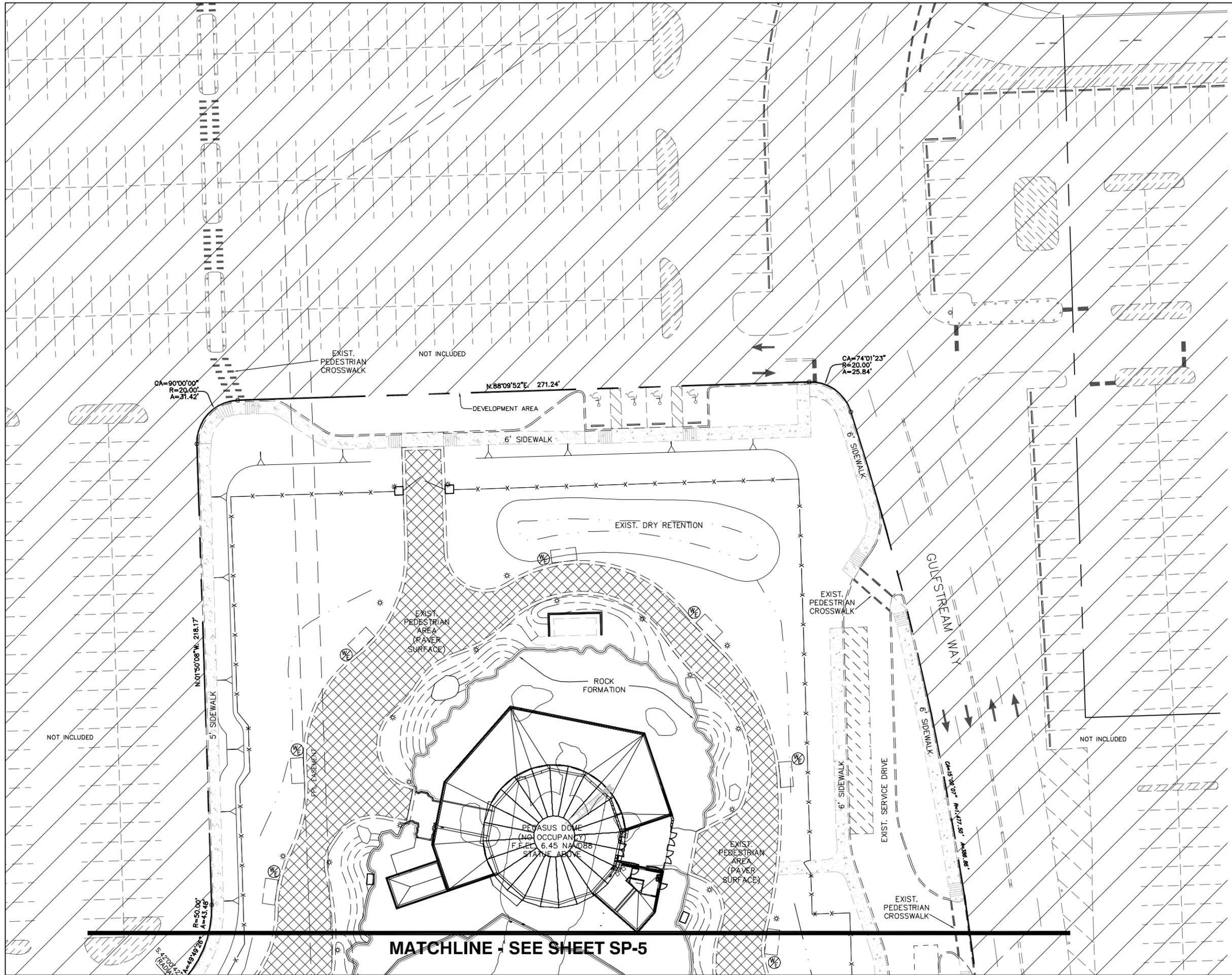
JOSEPH ROLES AND ASSOC., INC.
CONSULTING ENGINEERS
7501 N.W. 4th STREET, SUITE 101
PLANTATION, FLORIDA 33317
PHONE (954) 581-1916
CERTIFICATE OF AUTHORIZATION NO. 3948



PEGASUS PARK PAVILION
GULFSTREAM PARK
HALLANDALE BEACH, FLORIDA
PROPOSED DEVELOPMENT SITE PLAN

DATE	AS SHOWN	BY	DATE
04/2016	102-426-36	JWR	04/16
		IK	04/16
		JWR	04/16

SHEET NO.
SP-5 OF 6



JOSEPH ROLES AND ASSOC., INC.
 CONSULTING ENGINEERS
 7501 N.W. 4th STREET, SUITE 101
 PLANTATION, FLORIDA 33317
 PHONE (954) 581-1916
 CERTIFICATE OF AUTHORIZATION NO. 3948



PEGASUS PARK PAVILION
 GULFSTREAM PARK
 HALLANDALE BEACH, FLORIDA
 PROPOSED DEVELOPMENT SITE PLAN

DATE	AS SHOWN	PROJECT NO.	DESIGNED BY	DRAWN BY	CHECKED BY	NAME	DATE
04/2016	JMR	102-426-38	JMR	JMR	JMR	JMR	04/16

JOSEPH W. ROLES, JR., P.E.
 REG. ENGINEER #16965

SHEET NO. SP-6 OF 6

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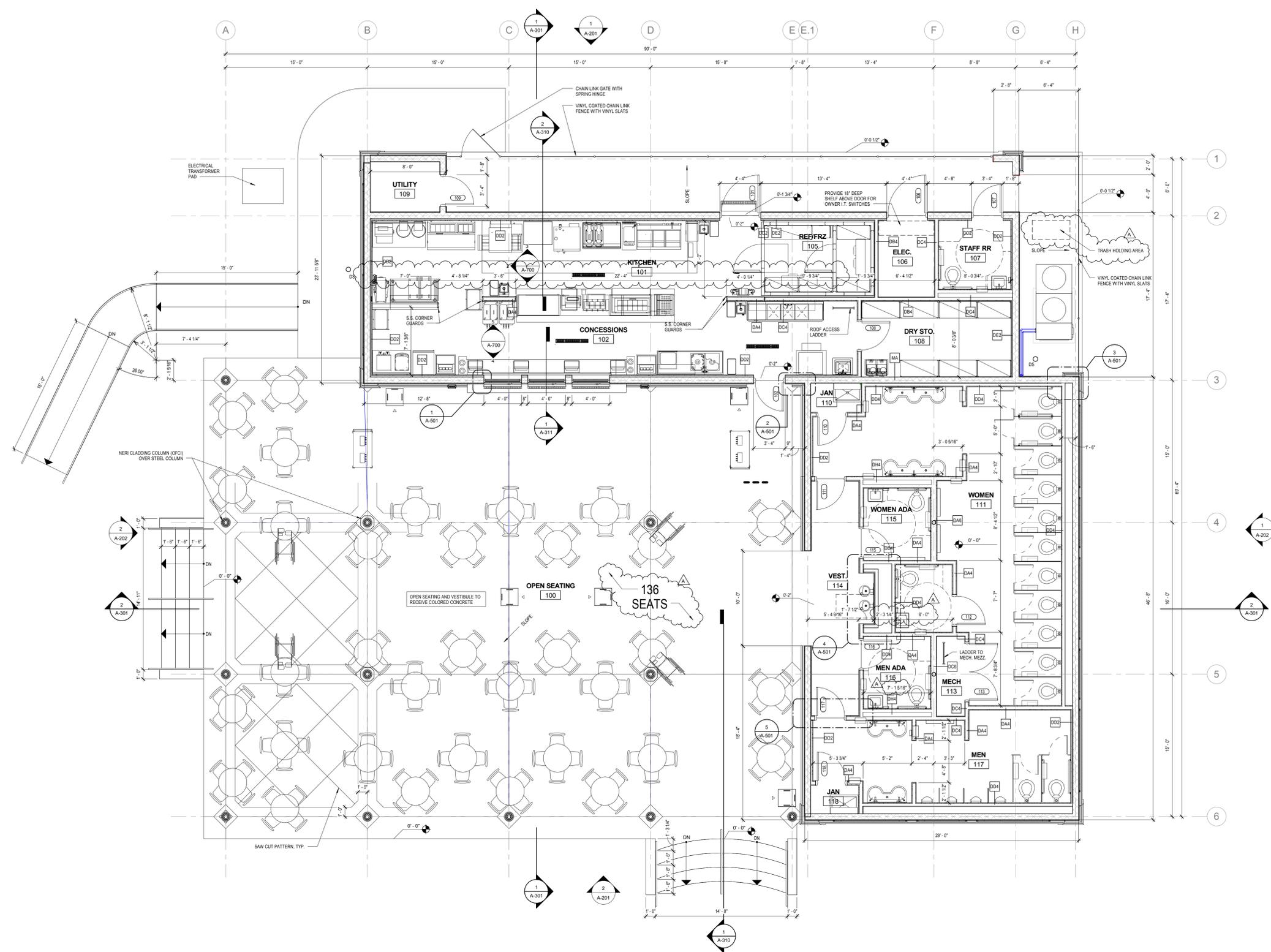
MATCHLINE - SEE SHEET SP-5

ISSUE	PERMIT/BID
	06/09/16
REVISION	
A Rev A	06/17/16

PEGASUS PARK PAVILION
 HALLANDALE, FL
GULFSTREAM

ARCHITECT OF RECORD:
 THOMAS JOHN WOOD AR94273
 DESIGNED BY:
 BRPH
 DRAWN BY:
 SMITH
 CHECKED BY:
 WOOD
 PROJECT NUMBER:
 C07262.001
 DATE:
 06/09/16
 TITLE:
FLOOR PLAN

DRAWING NO.
A-101

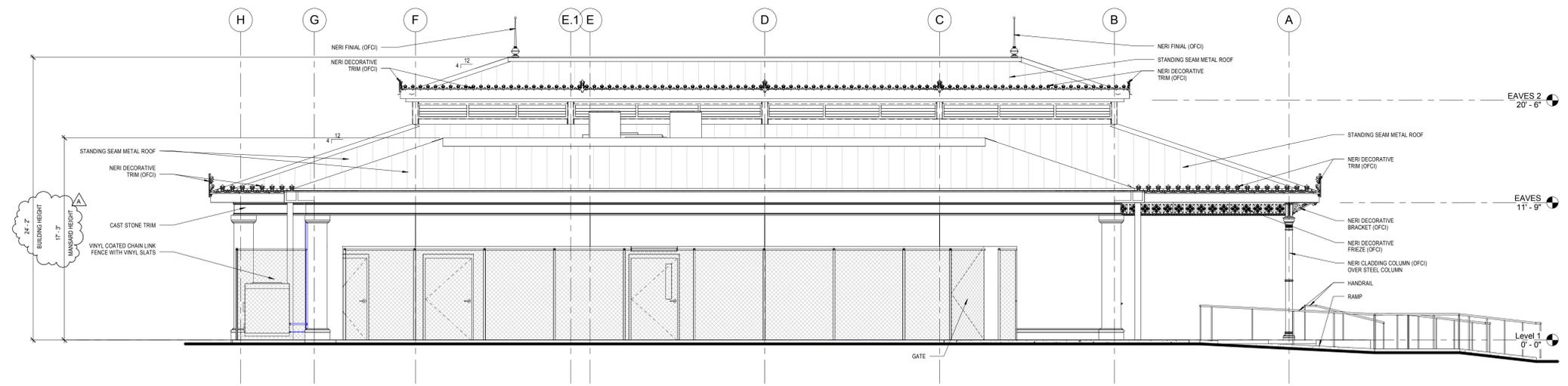


1 FLOOR PLAN
 1/4" = 1'-0"
 FINISH FLOOR ELEVATION: 0'-0" + 7.0' NGVD

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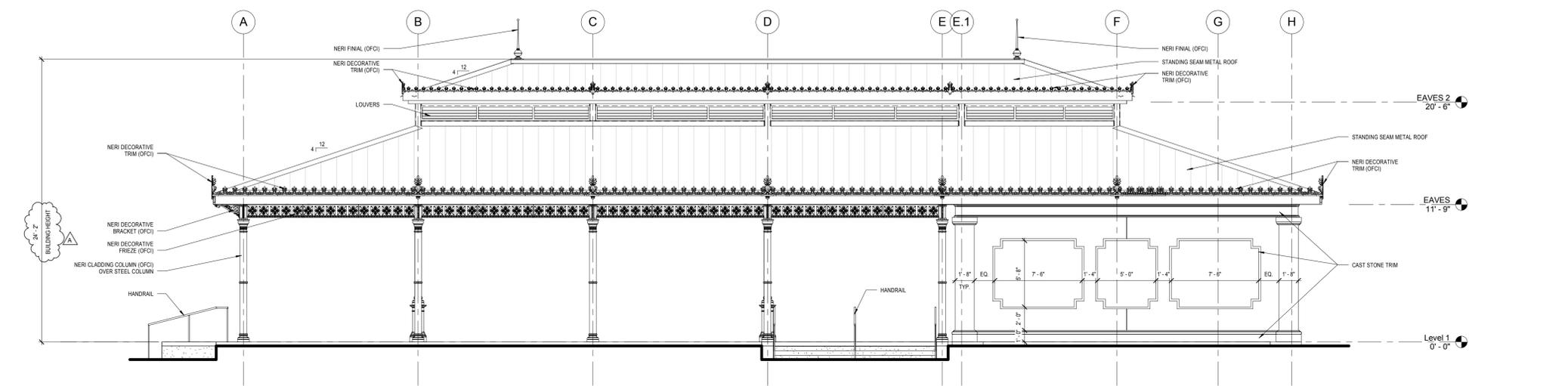
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	06/09/16
REVISION	
A	Rev A 06/17/16

E



1 EAST ELEVATION
 1/4" = 1'-0"

C



2 WEST ELEVATION
 1/4" = 1'-0"

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PEGASUS PARK PAVILION
 HALLANDALE, FL
GULFSTREAM

ARCHITECT OF RECORD
 THOMAS JOHN WOOD AR94273
 DESIGNED BY
 BRPH
 DRAWN BY
 SMITH
 CHECKED BY
 WOOD
 PROJECT NUMBER
 C07262.001
 DATE
 06/09/16
 TITLE
ELEVATIONS

DRAWING NO.
A-201

ISSUE	PERMIT/BID
	06/09/16
REVISION	
A Rev A	06/17/16

PEGASUS PARK PAVILION
 HALLANDALE, FL
 GULFSTREAM

ARCHITECT OF RECORD:
 THOMAS JOHN WOOD AR94273
 DESIGNED BY:
 BRPH
 DRAWN BY:
 SMITH
 CHECKED BY:
 WOOD
 PROJECT NUMBER:
 C07262.001
 DATE:
 06/09/16
 TITLE:
ELEVATIONS

DRAWING NO.
A-202

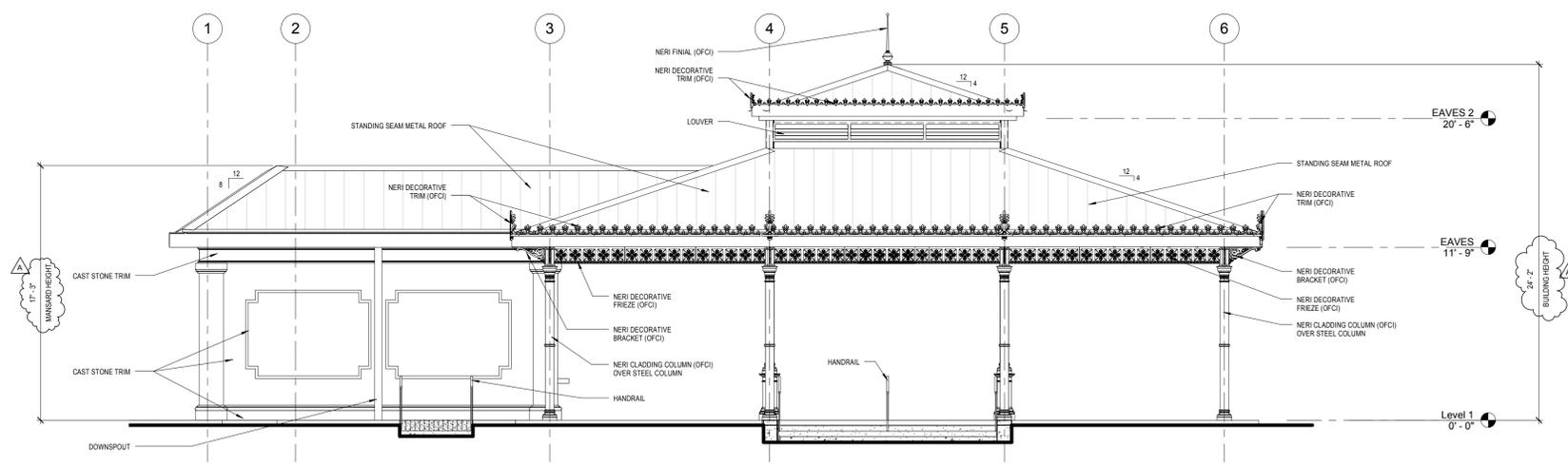
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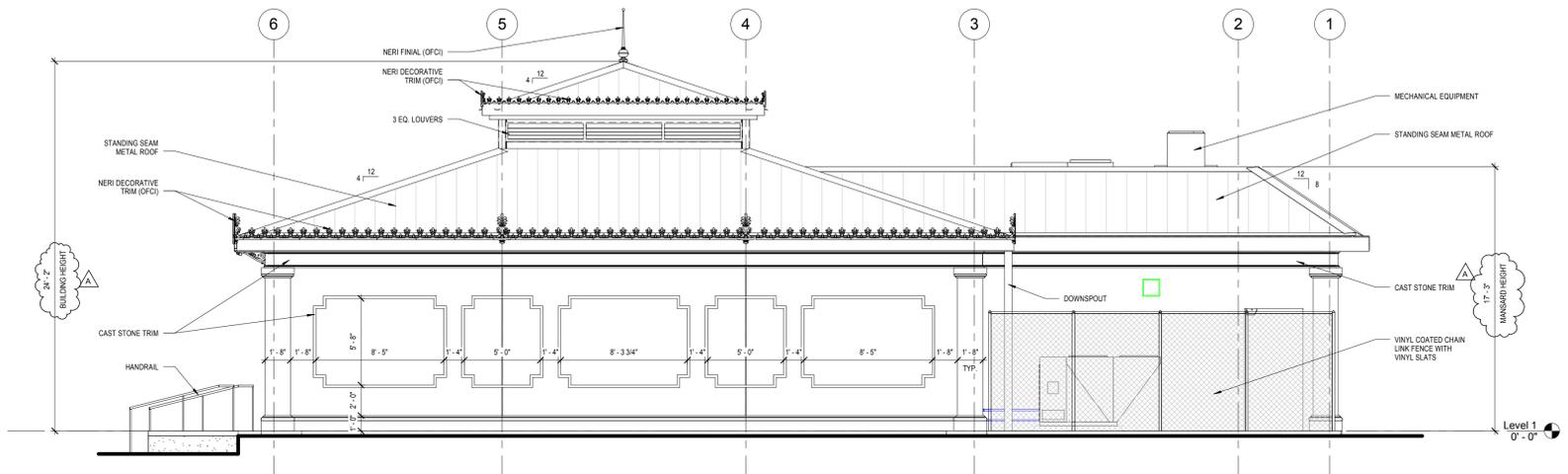
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2 NORTH ELEVATION
 1/4" = 1'-0"

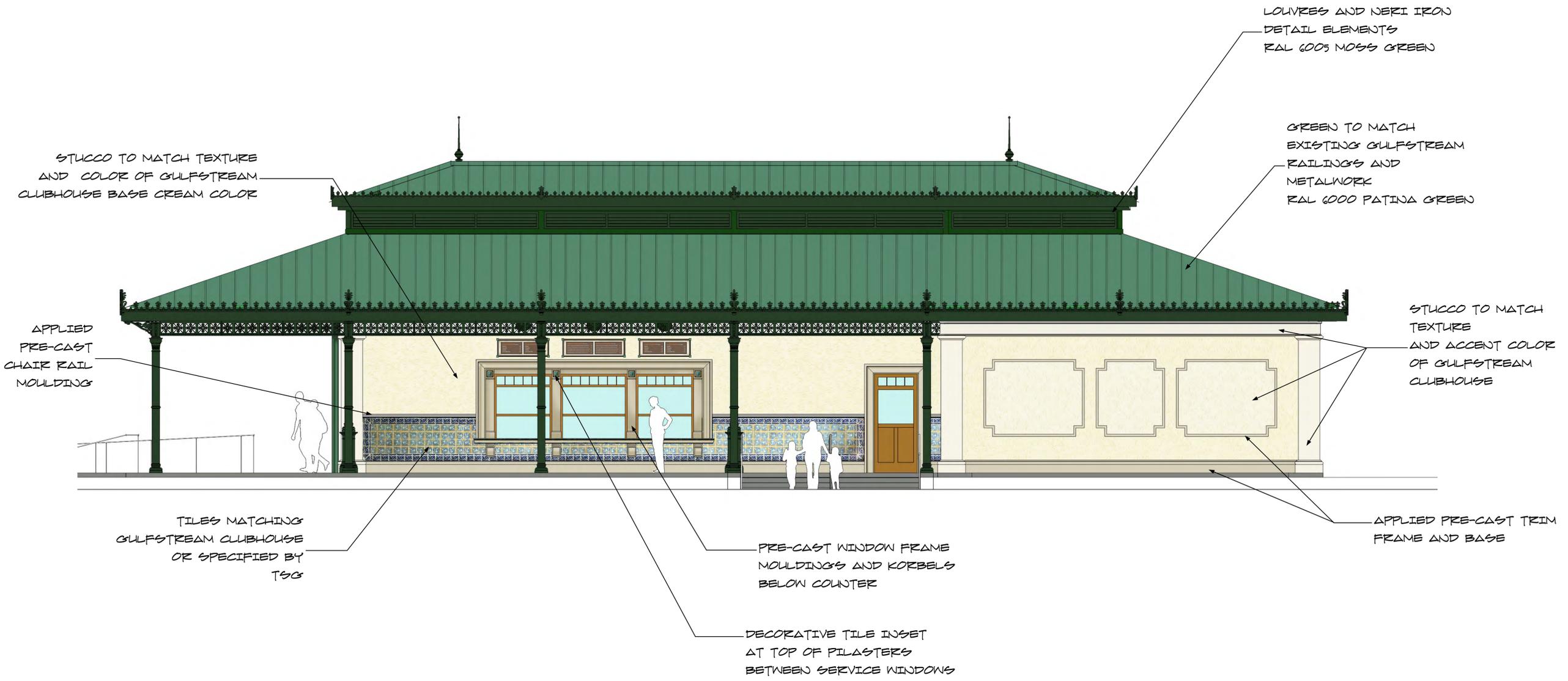


1 SOUTH ELEVATION
 1/4" = 1'-0"



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CAFE/PAVILION - COLOR & FINISHES
 ELEVATION

Pegasus Park
 F&B Cafe/Pavilion - Color & Finishes

May, 30 2016

DD-O3

ISSUE	PERMIT/BID
	06/09/16
REVISION	
A Rev A	06/17/16

CODE DATA

PROJECT LOCATION/GOVERNING AGENCY JURISDICTION:
CITY OF HALLANDALE BEACH, FLORIDA

BUILDING CODES:
A. FLORIDA BUILDING CODE (FBC), 2014
B. FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION, 2014 (WITHIN FBC)
C. FLORIDA ENERGY CODE, 2014
D. FBC TEST PROTOCOLS FOR HIGH VELOCITY HURRICANE ZONES, 2014
E. FBC MECHANICAL CODE, 2014
F. FBC ELECTRICAL CODE, 2014
G. FBC PLUMBING CODE, 2014

ADMINISTRATIVE CODES:
A. FLORIDA FIRE PREVENTION CODE, 2014
B. NFPA 1, FIRE CODE, 2012
C. NFPA 101, LIFE SAFETY CODE, 2012

FEDERAL CODES AND REGULATIONS:
THE AMERICANS WITH DISABILITIES ACT (ADA) AND ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES

PROJECT DESCRIPTION:
PROJECT CONSISTS OF A CONCESSION STAND, RESTROOM FACILITY AND COVERED DINING AREA ALL UNDER THE SAME ROOF. THIS BUILDING IS LOCATED WITHIN THE PEGASUS PARK COMPLEX.

BUILDING CONSTRUCTION TYPE:
TYPE VB
MAX BUILDING HEIGHT, 1 STORY
PROVIDED: 1 STORY
MAXIMUM BUILDING AREA: 24,000 SF (6,000 PLUS AREA INCREASE)
PROVIDED: 6,355 SF GROSS

AREA INCREASE:
PAVILION WILL BE PROTECTED BY A FIRE SUPPRESSION SYSTEM ALLOWS AN ADDITIONAL 300%

LIFE SAFETY REVIEW

OCCUPANCY CLASSIFICATION:
ASSEMBLY GROUP A-2

MEANS OF EGRESS:
ASSEMBLY TABLES & CHAIRS - 1 OCCUPANT PER 15 SF NET
KITCHEN - 1 OCCUPANT PER 200 SF GROSS

BUILDING DATA:
PROJECT CONSISTS OF A CONCESSION STAND, RESTROOM FACILITY AND COVERED DINING AREA ALL UNDER THE SAME ROOF. THIS BUILDING IS LOCATED WITHIN THE PEGASUS PARK COMPLEX.

OPEN SEATING	3088 SF
KITCHEN, CONCESSIONS, REFRFR	840 SF
DRY STD.	128 SF
ELEC.	48 SF
STAFF RR	55 SF
COVERED WALK	504 SF
WOMEN AND JAN. CLO.	84 SF
MECH.	25 SF
WOMEN ADA	54 SF
MEN ADA	54 SF
MEN AND JAN. CLO.	248 SF
VEST.	147 SF
MECH. MEZZ.	208 SF

LIFE SAFETY LEGEND

LIFE SAFETY ROOM

ROOM NAME: _____ ROOM NUMBER: 101
ROOM AREA: 488 sq ft
OCCUPANT LOAD FACTOR: 1.0
NUMBER OF OCCUPANTS: 488

LIFE SAFETY EXIT TAG

EXIT CAPACITY REQUIRED: 90
EXIT WIDTH REQUIRED: 0' - 10"
EXIT WIDTH PROVIDED: 2' - 10"

EGRESS ROUTE

SEGMENT LENGTH: 30'-0"
EGRESS PATH ORIGIN: ●
EGRESS PATH EXIT: →

FIRE PROTECTION

FIRE RESISTANT RATED OPENING (MINUTES): 45
FIRE EXTINGUISHER, BRACKET-MOUNTED: FE ○
FIRE EXTINGUISHER CABINET, SEMI-RECESSED: FEC ○

EMERGENCY SYSTEMS

EXIT LIGHT: ☒ ☒ ☒ ☒
EMERGENCY LIGHT: ☐
EXTERIOR WALL LIGHT (REFER TO ELECTRICAL DRAWINGS): ☐
2 X 4 EMERGENCY FLUORESCENT LIGHT FIXTURE: ☐
1 X 4 EMERGENCY FLUORESCENT LIGHT FIXTURE: ☐
4' STRIP FLUORESCENT LIGHTING FIXTURE: ☐
EMERGENCY DOWN LIGHT: ☐
EYEWASH/SHOWER: EWS ☒
FURNITURE OR EQUIPMENT NOT IN CONTRACT: ☐
FIRE PROTECTION RISER: ▲
OCCUPANCY SENSOR: ○
HORN ANNUNCIATOR: ▼
FIRE PROTECTION RISER: ☐
SPEAKER ANNUNCIATOR: ☐
STROBE ANNUNCIATOR: ☐

OCCUPANCY LEGEND

ASSEMBLY w/o FIXED SEATS: 15 SF/PERSON
KITCHEN: 200 SF/PERSON
MECHANICAL: 300 SF/PERSON

PEGASUS PARK PAVILION
HALLANDALE, FL
GULFSTREAM

ARCHITECT OF RECORD:
THOMAS JOHN WOOD AR94273

DESIGNED BY:
BRPH

DRAWN BY:
SMITH

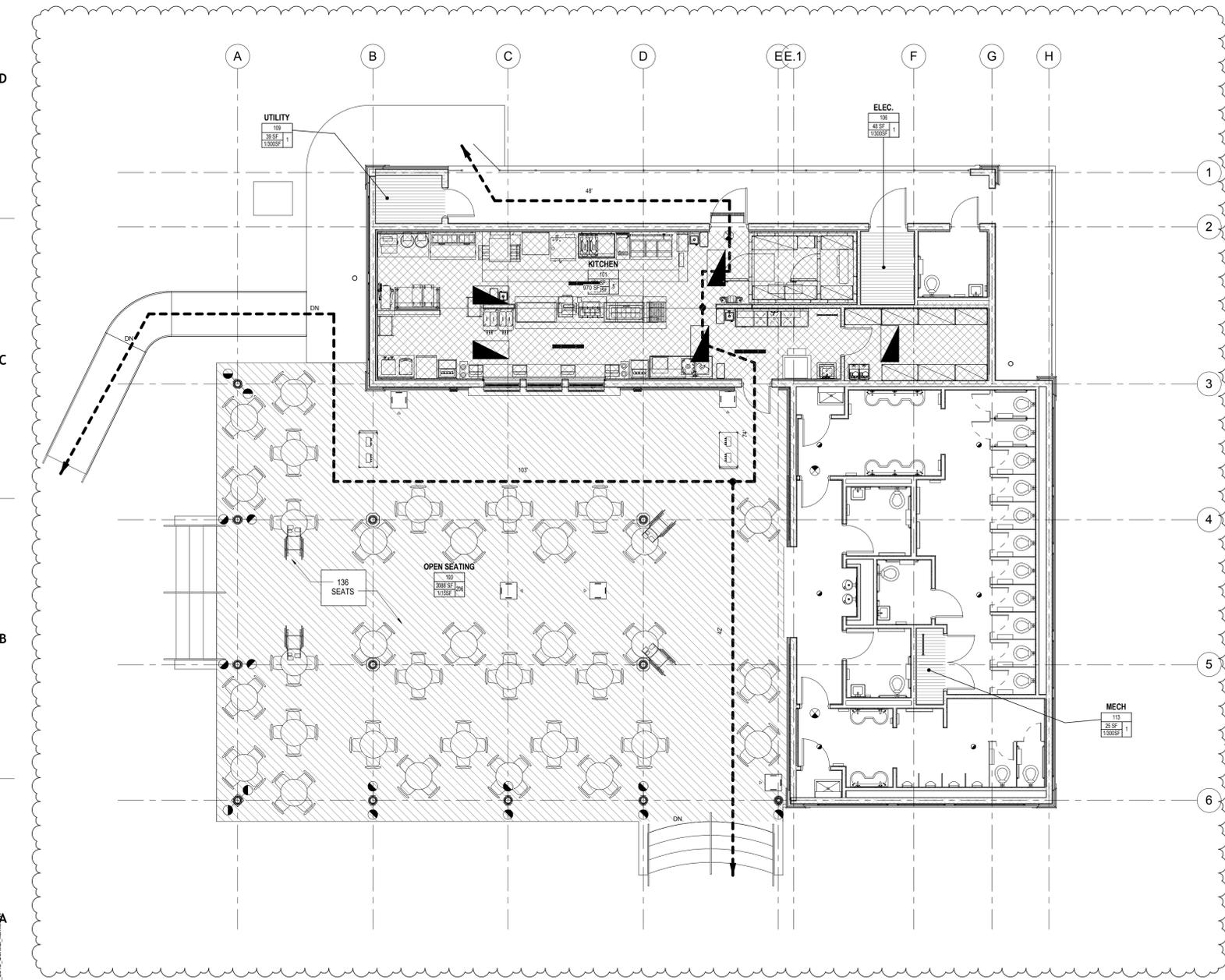
CHECKED BY:
WOOD

PROJECT NUMBER:
C07262.001

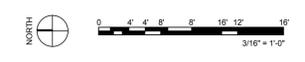
DATE:
06/09/16

TITLE:
CODE DATA AND LIFE SAFETY PLAN

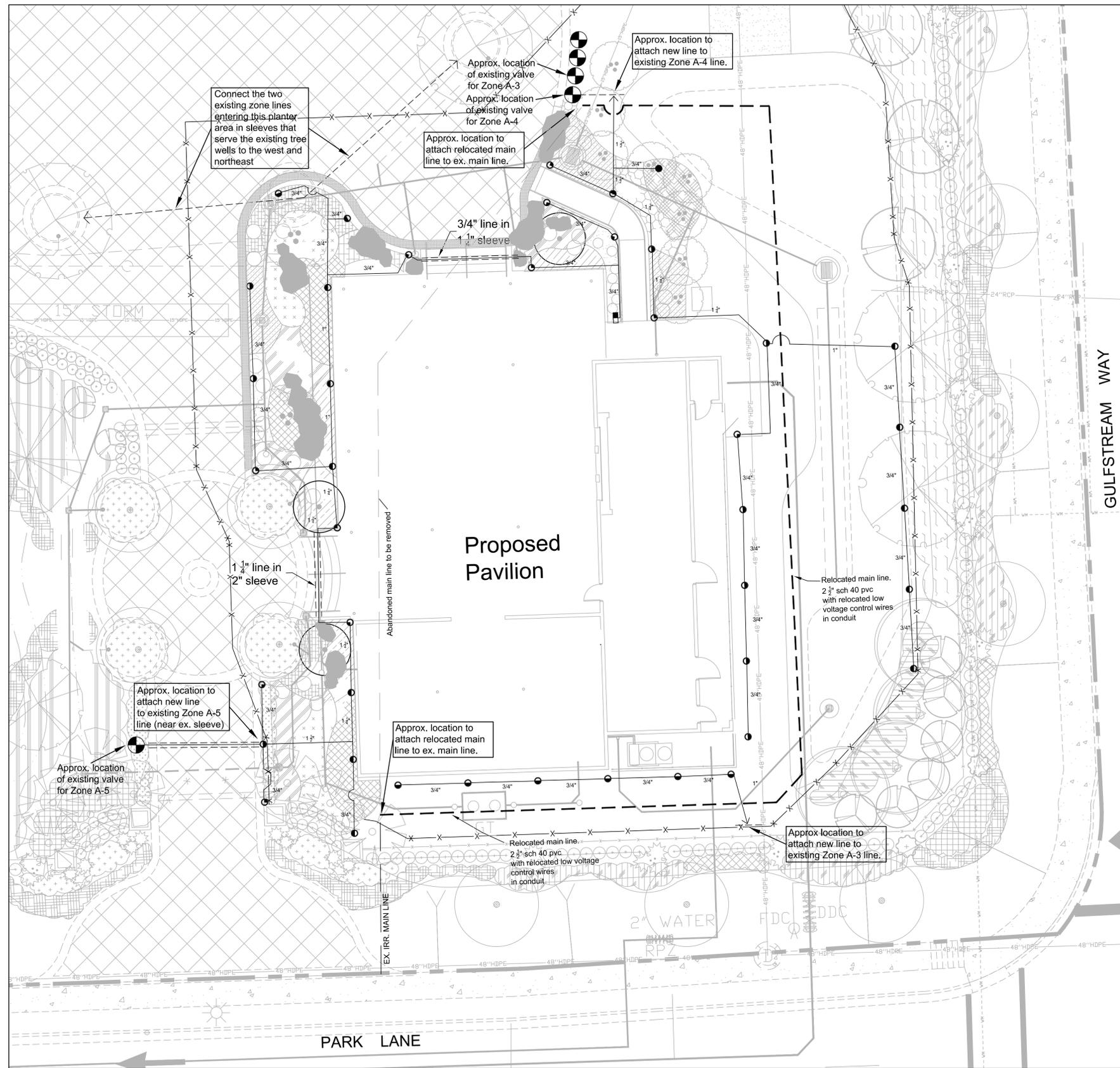
DRAWING NO.
AL-101



1 LIFE SAFETY PLAN
3/16" = 1'-0"



C:\Users\smith\Documents\BRPH\LOCAL
 C:\Users\smith\Documents\BRPH\LOCAL
 6/17/2016 10:16:18 AM



IRRIGATION KEY

For new spray heads attached to Zone A-3

SYMBOL	ARC	SPRAY HEAD / STANDARD TRAJECTORY
●	1/2" or as req. to provide water to adj. hedge.	Hunter MP1000 nozzles Installed on 6" pop-up body.

For new spray heads attached to Zone A-4

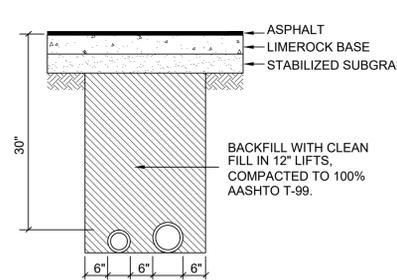
SYMBOL	ARC	SPRAY HEAD / STANDARD TRAJECTORY
●●●	FULL OR PART SEE PLAN	Hunter MP3000 nozzles Installed on 6" pop-up body.

For new spray heads attached to Zone A-5

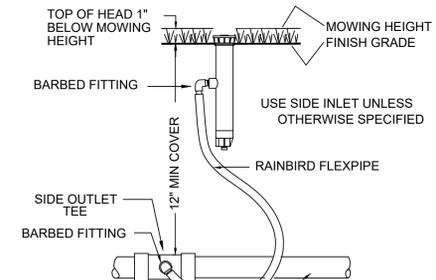
SYMBOL	ARC	SPRAY HEAD / STANDARD TRAJECTORY
●●●	FULL OR PART SEE PLAN	Hunter #15 MPR Pro nozzles Installed on 6" pop-up body or on shrub riser (see details).
■	END STRIP	

NOTES

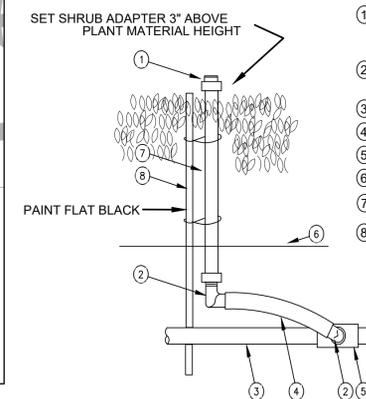
- ALL INSTALLED EQUIPMENT SHALL MATCH EXISTING.
- EXTEND SLEEVES 3' BEYOND EDGE OF PAVEMENT AND MARK ENDS WITH A 2x4 FIRMLY SET IN GROUND AND CLEARLY MARKED "IRRIGATION SLEEVE". ADD PIPE DIA. TO MARKER.
- PIPE SHALL BE PVC SCHEDULE 40 UP TO 3" IN DIAMETER, PROVIDE 30" MINIMUM COVER FROM TOP OF PIPE TO FINISHED GRADE ALONG ENTIRE LENGTH OF MAIN LINE PIPE. PROVIDE MINIMUM 12" COVER FOR ALL ZONE LINE PIPE.
- THE IRRIGATION PLAN IS SCHEMATIC. IRRIGATION CONTRACTOR SHALL PROVIDE 100% COVERAGE OF LANDSCAPE AREAS WITH A MIN. 75% OVERLAP. HEADS SHALL BE PLACED TO MINIMIZE OVERSPRAY ON BUILDINGS AND PAVEMENT. SOME FIELD ADJUSTMENT TO THE LOCATION OF HEADS, NOZZLE TRAJECTORIES, OR SPRAY PATTERN NOTED ON THE PLAN MAY BE REQUIRED.
- SPRAY HEADS OTHER SHRUB AREAS AWAY FROM WALKS SHALL BE ON A RISER WITH SHRUB ADAPTER AS NOTED IN THE DETAIL.
- FLUSH THE IMPACTED ZONES TO CLEAR DEBRIS AND INSURE THERE ARE NO CLOGGED HEADS.



SECTION IRRIGATION SLEEVING DETAIL N.T.S.



SPRAY HEAD / ROTOR HEAD N.T.S.



SHRUB RISER DETAIL N.T.S.

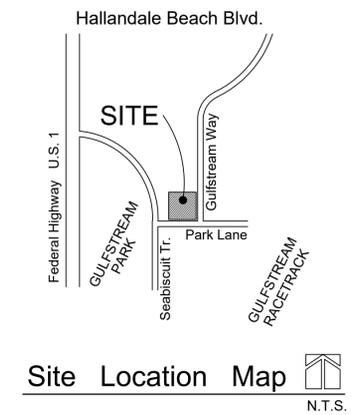
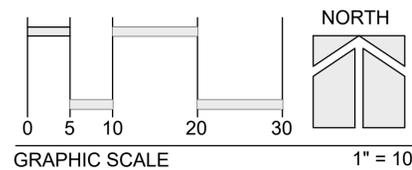
- SHRUB ADAPTER ROTOR SPRINKLER: -OR- SPRAY SPRINKLER:
- 1/2-INCH MALE NPT & BARB ELBOW
- PVC LATERAL PIPE
- POLY PIPE
- PVC SCH 40 TEE OR ELL
- FINISH GRADE/TOP OF MULCH
- SCH. 40 PVC RISER PAINTED BLACK
- #4 REBAR STAKE WITH WIRE TIES FOR SUPPORT



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NO.	REVISIONS	DATE
1	ISSUED FOR SITE PLAN APPROVAL, BUILDING PERMIT & BIDDING	06-10-16

Covelli Design Associates Inc.
 Urban Planning • Landscape Architecture
 2295 NW Corporate Blvd., Suite 213
 Boca Raton, Florida 33431
 561-910-0830
 LC 26000287
 covelldesign.com

Landscape Irrigation Plan
Pegasus Park Pavilion
 Gulfstream Park
 Hallandale Beach Florida

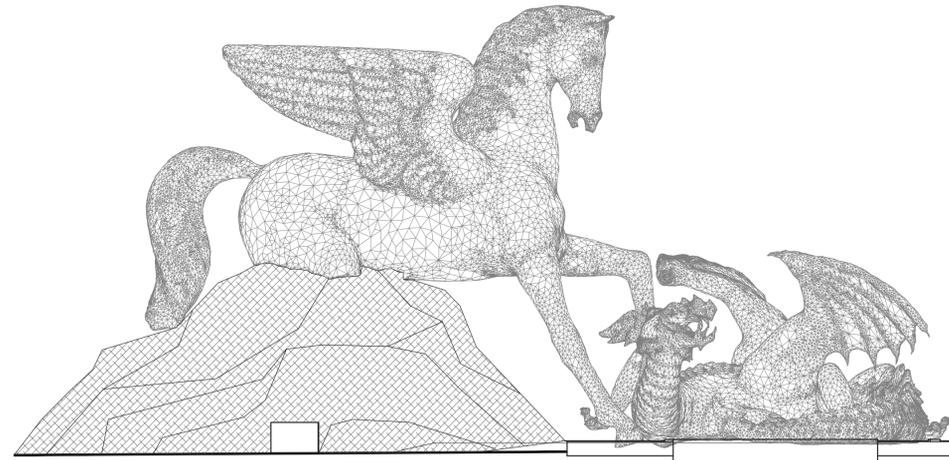
Date	06-08-2016
Scale	As Noted
PN#	1222

PREPARED BY
 Steven E. Tate, RLA
 Landscape Architect #967
 State of Florida
 - for the firm -
 DATE

Drawing No.
IR-1
 OF 1

GULFSTREAM PARK RACING ASSOCIATION, INC.

HALLANDALE BEACH, FLORIDA



PEGASUS PARK PAVILION

PLANS FOR

WATER, SANITARY SEWER, PAVING, GRADING & DRAINAGE

INDEX OF SHEETS	
SHEET NUMBER	DESCRIPTION
01	COVER
02	KEY MAP AND NOTES
03	TYPICAL SECTIONS AND DETAILS
04	DEMOLITION POLLUTION PREVENTION PLAN
05	GRADING AND DRAINAGE PLAN
06	DRAINAGE DETAILS
07	DRAINAGE DETAILS
08	EARTHWORK PLAN
09	WATER AND SEWER PLAN
10	WATER SPECIFICATIONS
11	POTABLE WATER DETAILS
12	WATER DETAILS
13	SEWER DETAILS
14	PAVING AND GEOMETRY PLAN
15	POLLUTION PREVENTION DETAILS



**GULFSTREAM
PARK SITE**

ELEVATIONS SHOWN ON THESE PLANS
ARE REFERENCED TO THE NAVD-1988
DATUM (NGVD-29 REFERENCE
ELEVATIONS HAVE BEEN
CONVERTED)
TO CONVERT FROM NGVD-29 DATUM TO
NAVD-88 DATUM SUBTRACT 1.59 FEET

BENCHMARK
THE ELEVATIONS SHOWN HEREON ARE BASED UPON NORTH AMERICAN
VERTICAL DATUM OF 1988 (NAVD 88), BENCHMARK DA20, DESCRIBED
AS IRON ROD IN MEDIAN US-1, ELEVATION =5.929 (NAVD)

PLANS PREPARED FOR
PEGASUS FLORIDA, INC.
901 SOUTH FEDERAL HIGHWAY
HALLANDALE, FLORIDA 33009

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BEFORE YOU DIG



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DIAL 811

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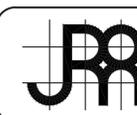
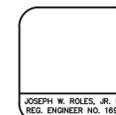
SUNSHINE STATE ONE CALL OF FLORIDA, INC.

PLANS SCALING NOTE
ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN
ALTERED BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING
SCALED DATA. PLANS REDUCED TO TABLOID (11" X 17") SIZE ARE NOT
TRUE HALF SCALE AND SHOULD NOT BE SCALED FOR INFORMATION.



LOCATION MAP

SECTION 27, TOWNSHIP 51S, RANGE 42E

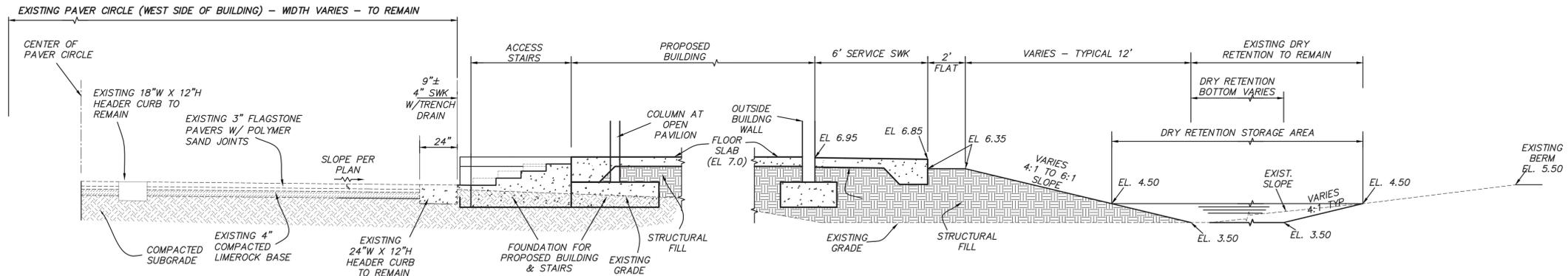


PREPARED BY

JOSEPH ROLES AND ASSOC., INC.
CONSULTING ENGINEERS
7501 N.W. 4th STREET, SUITE 101
PLANTATION, FLORIDA 33317
PHONE (954) 581-1945
CERTIFICATE OF AUTHORIZATION NO. 3948

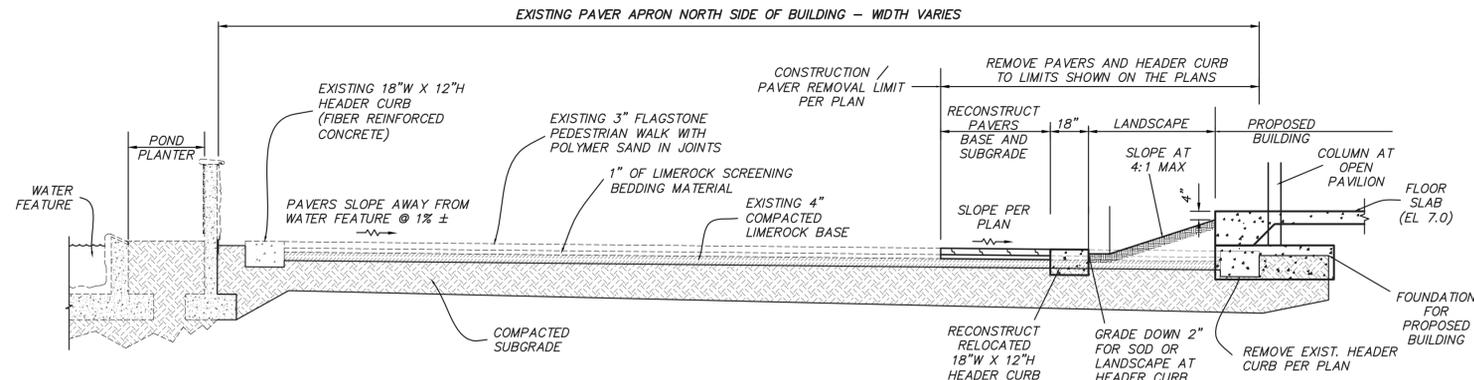
104-426-38

REVISIONS



TYPICAL SECTION "A-A"
PEDESTRIAN PAVER CIRCLE & DRY RETENTION

SEE PAVING AND GEOMETRY PLAN



TYPICAL SECTION "B-B"
PEDESTRIAN PAVER APRON MODIFICATIONS

SEE PAVING AND GEOMETRY PLAN

NOTES:

1. PROTECT PAVERS BEYOND THE CONSTRUCTION LIMITS - NO CONSTRUCTION ACTIVITIES PERMITTED ON REMAINING PAVERS
2. CONCRETE HEADER CURB SHALL BE FIBER REINFORCED AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI IN 28 DAYS. PROVIDE SAW CUT CONTRACTION JOINTS AT 10' CENTERS (RADIAL IN CURVES AND PERPENDICULAR AT TANGENT SECTIONS). TOOL ALL EXPOSED EDGES AND PROVIDE A LIGHT BROOM FINISH.
3. HEADER CURB FINISH TO MATCH EXISTING.
4. THE SUBGRADE MATERIAL UNDER THE CURB AND FLAGSTONE PAVEMENT SECTION SHALL HAVE A MINIMUM LIMEROCK BEARING RATIO OF 40. SUBGRADE SHALL BE COMPACTED TO A MINIMUM DENSITY OF 98% AS DETERMINED BY AASHTO T-180.
5. THE TESTING OF SUBGRADE AND EMBANKMENT SHALL BE DONE PRIOR TO REQUESTING ANY INSPECTION BY THE CITY.
6. CONTRACTOR SHALL FILL AND GRADE SITE TO ACCOMMODATE FINISH GRADE ELEVATIONS SHOWN ON GRADING PLAN AND IN ACCORDANCE WITH TYPICAL SECTION AS SHOWN.
7. GRADES SHOWN ARE FINISHED GRADES.
8. FINISHED EARTHWORK GRADE TO BE TYPICALLY 2 INCHES BELOW THE HEADER CURB GRADE TO ACCOUNT FOR SOD AND MULCH. UNLESS OTHERWISE NOTED.
9. SALVAGE AND PALLET STACK ALL REMOVED COBBLESTONE PAVERS FOR REUSE. OWNER HAS AN INVENTORY OF EXTRA MATCHING PAVERS IN THE EVENT ADDITIONAL ARE REQUIRED.
10. REMOVE EXISTING TREE RING AS A SINGLE UNIT FOR REUSE
11. REMOVE TREE RING TOPSOIL AND REPLACE WITH STRUCTURAL FILL WHERE NEW PAVERS AND HEADER CURB ARE TO BE INSTALLED.

CONSTRUCTION SEQUENCE:

1. DEMOLITION OF LANDSCAPE AND PAVERS
2. CONSTRUCT PARCIAL DRAINAGE SYSTEM AND REMOVE EXISTING DRAINAGE PIPES AND STRUCTURES AND SEWER PIPE.
3. CONSTRUCT EARTHWORK
4. CONSTRUCT WATER AND SEWER SYSTEMS AND REMAINING DRAINAGE
5. CONSTRUCT HEADER CURB AND RESET PAVERS TO NEW GRADE

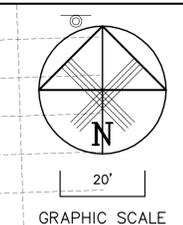
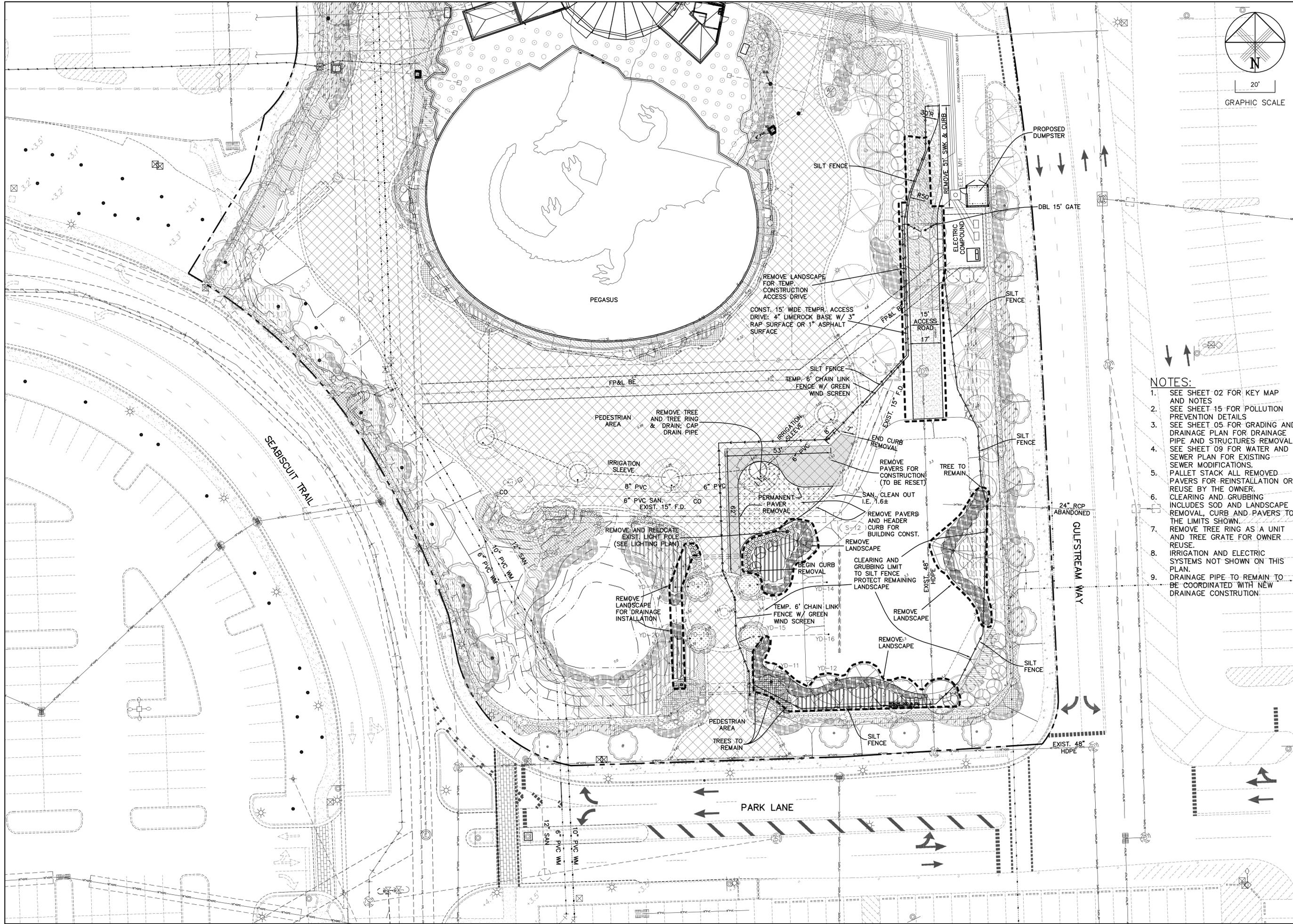
NO.	DATE	BY

JOSEPH ROLES AND ASSOC., INC.
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 PLANTATION, FLORIDA 33317
 PHONE 954-581-1945
 CERTIFICATE OF AUTHORIZATION NO. 3948



PEGASUS PARK PAVILION
 GULFSTREAM PARK
 HALLANDALE BEACH, FLORIDA
TYPICAL SECTIONS AND DETAILS

DATE	SCALE	PROJECT NO.	DESIGNED BY	DRAWN BY	CHECKED BY	DATE
04/2016	AS SHOWN	102-426-33	JWR	JK	JWR	04/16



- NOTES:**
- SEE SHEET 02 FOR KEY MAP AND NOTES
 - SEE SHEET 15 FOR POLLUTION PREVENTION DETAILS
 - SEE SHEET 05 FOR GRADING AND DRAINAGE PLAN FOR DRAINAGE PIPE AND STRUCTURES REMOVAL
 - SEE SHEET 09 FOR WATER AND SEWER PLAN FOR EXISTING SEWER MODIFICATIONS.
 - PALLET STACK ALL REMOVED PAVERS FOR REINSTALLATION OR REUSE BY THE OWNER.
 - CLEARING AND GRUBBING INCLUDES SOD AND LANDSCAPE REMOVAL, CURB AND PAVERS TO THE LIMITS SHOWN.
 - REMOVE TREE RING AS A UNIT AND TREE GRATE FOR OWNER REUSE.
 - IRRIGATION AND ELECTRIC SYSTEMS NOT SHOWN ON THIS PLAN.
 - DRAINAGE PIPE TO REMAIN TO BE COORDINATED WITH NEW DRAINAGE CONSTRUCTION

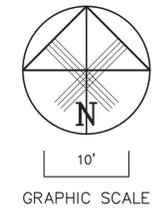
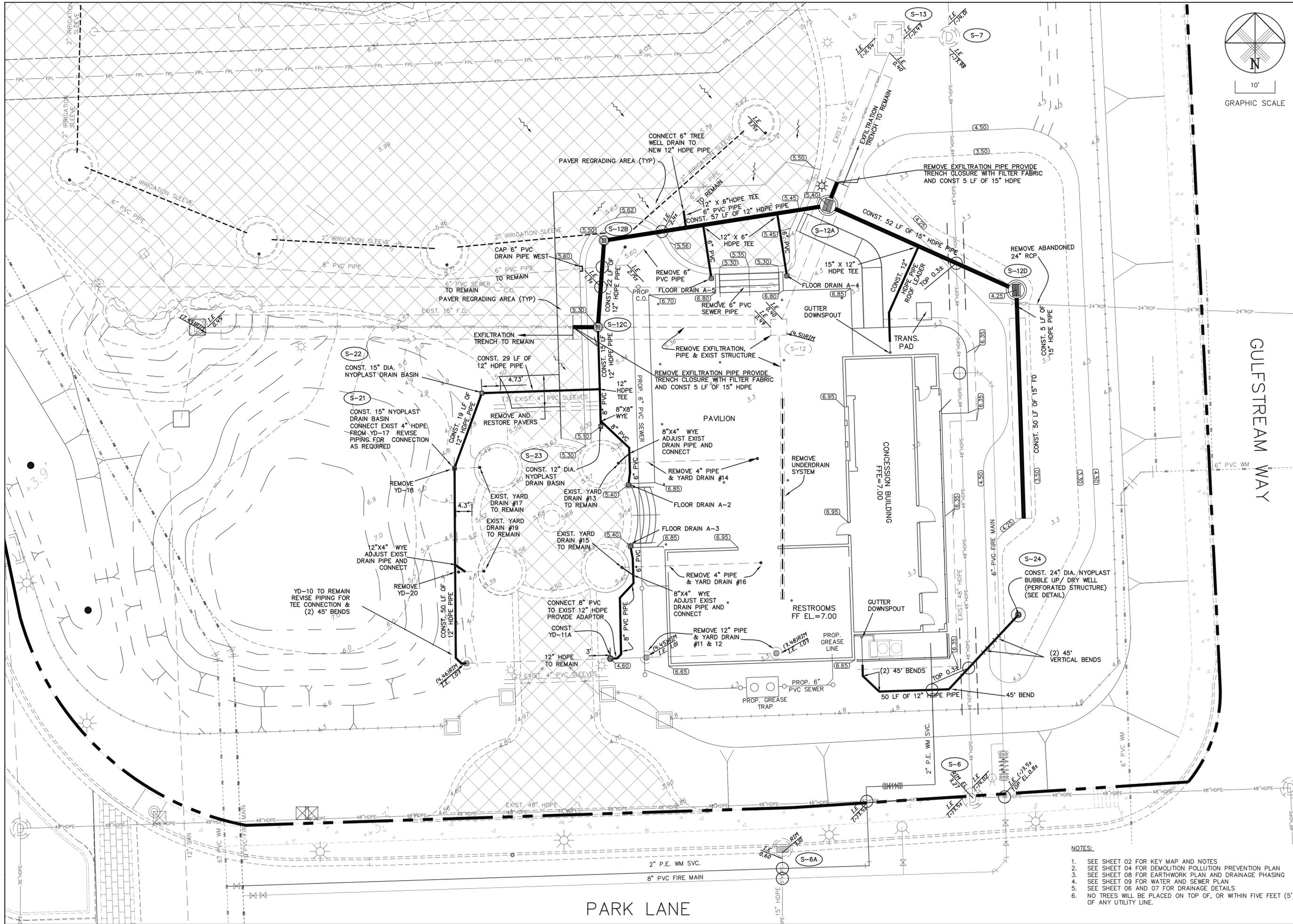
NO.	DATE	BY
1	6/15/16	JWR

ADDED WIND SCREEN TO TEMP FENCE REVISIONS

JOSEPH ROLES AND ASSOC., INC.
 CONSULTING ENGINEERS
 7501 N.W. 4th STREET, SUITE 101
 HALLANDALE BEACH, FLORIDA 33317
 PHONE: (954) 581-1945
 CERTIFICATE OF AUTHORIZATION NO. 3948

PEGASUS PARK PAVILION
 GULFSTREAM PARK
 HALLANDALE BEACH, FLORIDA
 DEMOLITION POLLUTION PREVENTION PLAN

DATE	AS SHOWN	DATE
04/2016	102-426-38	04/16
JWR	JWR	04/16
IK	JWR	04/16
JWR	JWR	04/16
JWR	JWR	04/16



GULFSTREAM WAY

PARK LANE

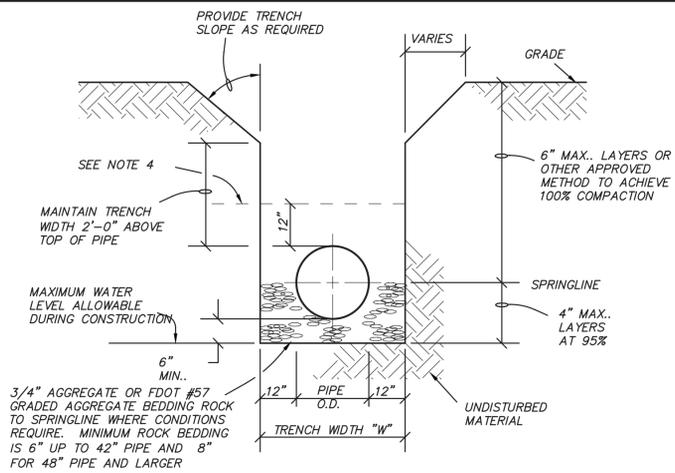
- NOTES:**
- SEE SHEET 02 FOR KEY MAP AND NOTES
 - SEE SHEET 04 FOR DEMOLITION/POLLUTION PREVENTION PLAN
 - SEE SHEET 08 FOR EARTHWORK PLAN AND DRAINAGE PHASING
 - SEE SHEET 09 FOR WATER AND SEWER PLAN
 - SEE SHEET 06 AND 07 FOR DRAINAGE DETAILS
 - NO TREES WILL BE PLACED ON TOP OF, OR WITHIN FIVE FEET (5') OF ANY UTILITY LINE.

NO.	DATE	BY

JOSEPH ROLES AND ASSOC., INC.
 CONSULTING ENGINEERS
 7501 N.W. 4th STREET, SUITE 101
 PLANTATION, FLORIDA 33317
 PHONE: 954.581.1945
 CERTIFICATE OF AUTHORIZATION NO. 3948

PEGASUS PARK PAVILION
 GULFSTREAM PARK
 HALLANDALE BEACH, FLORIDA
 GRADING AND DRAINAGE PLAN

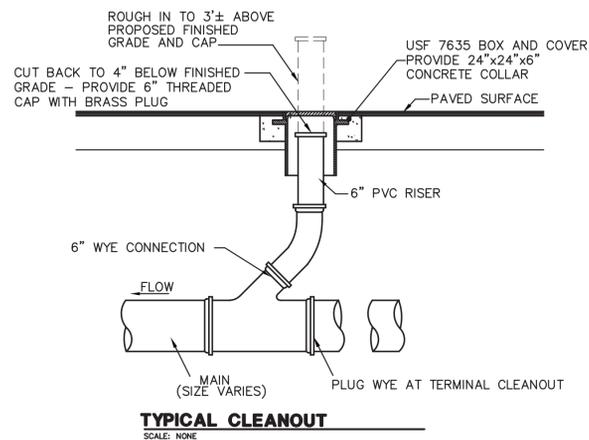
DATE	SCALE	PROJECT NO.	DESIGNED BY	DRAWN BY	CHECKED BY	DATE
04/2016	AS SHOWN	102-426-38	JWR	IK	JWR	04/16



TRENCH DETAIL

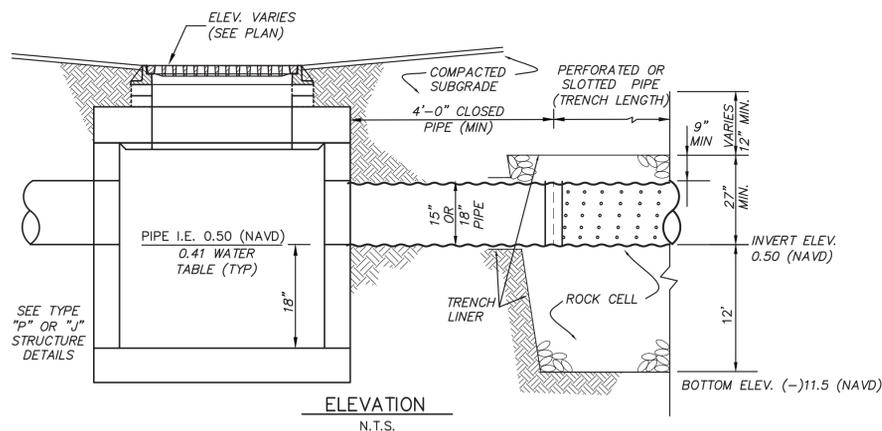
TRENCH CONSTRUCTION NOTES

- WHERE SOIL CONDITIONS CANNOT BE MAINTAINED AS SHOWN ABOVE THE CONTRACTOR SHALL PROVIDE HIS ALTERNATE PLAN FOR TRENCH CONSTRUCTION TO THE ENGINEER OF RECORD AND THE CITY FOR APPROVAL.
- SHEETING REQUIREMENTS WILL BE DETERMINED IN THE FIELD. SEE PROJECT SPECIFICATIONS.
- COMPACTION PERCENTAGES REFER TO AASHTO T-99 STANDARD PROCTOR.
- MECHANICAL COMPACTION NOT ALLOWED BELOW 12" ABOVE THE PIPE.
- PVC AND HDPE PIPE TO HAVE ROCK BACKFILL TO PIPE SPRINGLINE AND SAND OR AGGREGATE BEDDING AND/OR ENVELOPE AS REQUIRED IN AREAS WHERE TRENCH BACKFILL IS NOT SUITABLE DUE TO ROCK. ENVELOPE TO BE MIN. 12 INCHES AROUND THE PIPE.
- MAINTAIN TRENCH WALL PER OSHA REQUIREMENTS AND STATE OF FLORIDA TRENCH SAFETY ACT.



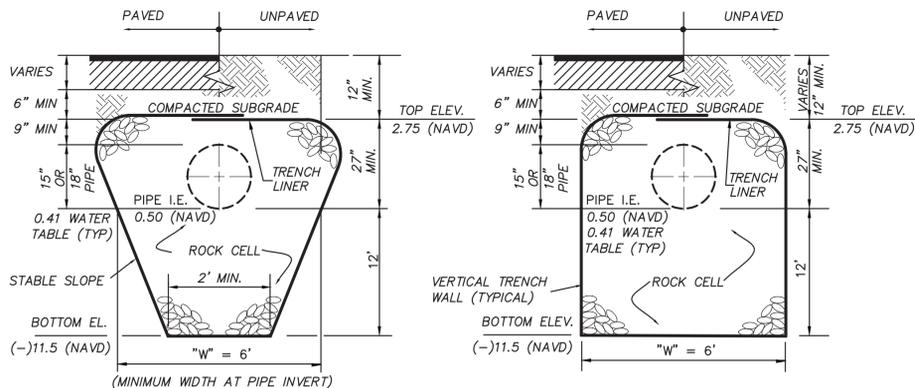
DRAINAGE STRUCTURES TABULATION

(S-6) TO REMAIN 6'x6' TYPE J MANHOLE RIM EL=3.27 INSTALL PEDESTRIAN SAFE COVER W INV EL (-)3.84 48" HDPE W INV EL (-)3.54 48" HDPE N INV EL (-)4.02 48" HDPE	(YD-12) REMOVE 12" NYLOPLAST DRAIN BASIN WITH H-20 GRATE (12" SUMP) RIM EL=3.48 W INV EL 1.03 12" HDPE	(S-12A) TYPE P INLET WITH PEDESTRIAN TOP (12" SUMP) RIM EL= 5.30 EXIST. N INV 0.40 15" FD PROP. E INV 0.90 15" HDPE PROP. W INV 1.90 12" HDPE	(YD-11A) RELOCATED 12" NYLOPLAST DRAIN BASIN WITH H-20 GRATE (12" SUMP) RIM EL=4.60 E INV EL 2.00 8" HDPE W INV EL 1.0± 12" HDPE
(S-6A) TO REMAIN TYPE 9 INLET RIM EL=3.10 S INV EL 0.06 15" HDPE	(YD-13) TO REMAIN 8" NYLOPLAST DRAIN WITH DOME GRATE RIM EL=5.17 E INV EL 2.00 4" PVC	(S-12B) 18" NYLOPLAST DRAIN WITH STANDARD GRATE (12" SUMP) RIM EL= 5.50 E INV 2.00 12" HDPE S INV 2.30 12" HDPE	(A-2) AREA DRAIN ZURN ZB-610-H-LY RIM EL=5.40 N INV EL 2.50 6" PVC
(S-7) TO REMAIN 6'x6' TYPE J MANHOLE RIM EL=3.10; RAISE TOP TO 4.81 WITH RISER SECTION S INV EL (-)3.98 48" HDPE W INV EL (-)1.43 18" HDPE N INV EL (-)4.01 48" HDPE	(YD-14) REMOVE 8" NYLOPLAST DRAIN WITH STANDARD GRATE RIM EL=3.50 W INV EL 2.00 4" PVC	(S-12C) 18" NYLOPLAST DRAIN WITH STANDARD GRATE (12" SUMP) RIM EL= 5.30 N INV 2.30 12" HDPE W INV 0.45 15" FD	(A-3) AREA DRAIN ZURN ZB-610-H-LY RIM EL=5.40 S INV EL 2.50 6" PVC
(S-11) TO REMAIN TYPE P INLET WITH PEDESTRIAN GRATE (18" SUMP) RIM EL = 7.45 INV 0.45 15" FD S INV 1.00 15" HDPE N INV 1.29 10" HDPE	(YD-15) TO REMAIN 8" NYLOPLAST DRAIN WITH DOME GRATE RIM EL=5.17 E INV EL 2.00 4" PVC	(S-12D) TYPE P INLET WITH PEDESTRIAN TOP (12" SUMP) RIM EL= 4.25 W INV 0.90 15" HDPE S INV 0.50 15" FD	(A-4) AREA DRAIN ZURN ZB-610-H-LY RIM EL=5.20 N INV EL 2.50 6" PVC
(S-12) REMOVE TYPE P INLET WITH PEDESTRIAN TOP (18" SUMP) RIM EL= 4.51 N INV 0.40 15" FD W INV 0.49 15" FD	(YD-16) REMOVE 8" NYLOPLAST DRAIN WITH STANDARD GRATE RIM EL=3.50 W INV EL 2.00 4" PVC	(S-21) 15" NYLOPLAST DRAIN WITH STANDARD GRATE RIM EL=4.60 EXIST. E INV EL 2.00 6" PVC PROP. N INV EL 0.95 12" PVC PROP. S INV EL 0.95 12" PVC	(A-5) AREA DRAIN ZURN ZB-610-H-LY RIM EL=5.20 N INV EL 2.50 6" PVC
(S-13) TO REMAIN TYPE J MANHOLE (6'x7') RIM EL=5.44 W INV EL (-)1.54 12" PVC S INV EL 0.40 15" FD E INV EL (-)1.43 18" HDPE WEIR E: 60" HALF-ROUND AT ELEV 2.49	(YD-17) TO REMAIN 8" NYLOPLAST DRAIN WITH DOME GRATE RIM EL=5.17 W INV EL 2.00 6" HDPE	(S-22) 15" NYLOPLAST DRAIN WITH STANDARD GRATE RIM EL=5.20 E INV EL 0.90 12" PVC S INV EL 0.90 12" PVC	
(YD-10) TO REMAIN 12" NYLOPLAST DRAIN BASIN WITH H-20 GRATE (12" SUMP) RIM EL=4.46 E INV EL 1.03 12" HDPE	(YD-18) REMOVE 8" NYLOPLAST DRAIN WITH STANDARD GRATE RIM EL=4.80 E INV EL 2.00 6" PVC	(S-23) 15" NYLOPLAST DRAIN WITH STANDARD GRATE RIM EL=5.10 N INV EL 1.4 8" PVC	
(YD-11) REMOVE AND RELOCATE 12" NYLOPLAST DRAIN BASIN WITH H-20 GRATE (12" SUMP) RIM EL=4.45 W & E INV EL 1.01 12" HDPE	(YD-19) TO REMAIN 8" NYLOPLAST DRAIN WITH DOME GRATE RIM EL=5.17 W INV EL 2.00 6" HDPE	(S-24) 24" NYLOPLAST DRAIN (PERFORATED) WITH STANDARD GRATE W/ APRON RIM EL=3.60 W INV EL 1.50 12" PVC	
	(YD-20) REMOVE 8" NYLOPLAST DRAIN WITH STANDARD GRATE RIM EL=4.63 E INV EL 2.00 6" PVC		



NOTES

- EXFILTRATION PIPE SHALL BE A-2000 PVC CORRUGATED PIPE, HDPE CORRUGATED PIPE, ALUMINUM CORRUGATED METAL PIPE OR SLOTTED REINFORCED CONCRETE PIPE, OR OTHER MATERIALS AS SPECIFIED AND APPROVED BY THE ENGINEER AND THE JURISDICTION APPROVING THE SYSTEM. ALL PIPE MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF THE FLORIDA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS. PROVIDE GASKETS FOR RCP & PVC PIPE, GASKETS ARE OPTIONAL FOR CMP & HDPE PIPE WITHIN THE ROCK CELL. ALL EXFILTRATION SYSTEM PIPE SHALL BE LAID WITH 0.0% SLOPE.
- ROCK FOR THE EXFILTRATION TRENCH SHALL CONSIST OF FDOT #4 AGGREGATE AND SHALL BE FROM FRESH WATER WASHED FREE OF DELETERIOUS MATTER. #57 STONE AGGREGATE IS NOT TO BE USED IN TRENCH. TRENCH LENGTH IS MEASURED BY THE LENGTH OF PERFORATED PIPE ONLY.
- SIDES AND TOP OF TRENCH SHALL BE LINED WITH ONE LAYER OF WOVEN OR NON-WOVEN PLASTIC TYPE FILTER CLOTH. OVERLAP TRENCH LINING MATERIAL A MINIMUM OF TWO FEET AT TOP OF TRENCH AND WRAP PIPE AT TRENCH ENDS. CLOSE FABRIC ENDS AT PIPE WITH A STAINLESS STEEL STRAP AROUND PIPE. ALL MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF THE FLORIDA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.
- IF REQUIRED BY THE CITY / COUNTY BIO-BARRIER SHALL BE INSTALLED ADJACENT TO EXFILTRATION TRENCH WHEN EXISTING OR PROPOSED TREES ARE LOCATED WITHIN 10 FEET OF THE CENTERLINE OF PIPE.



EXFILTRATION TRENCH CONSTRUCTION DETAILS

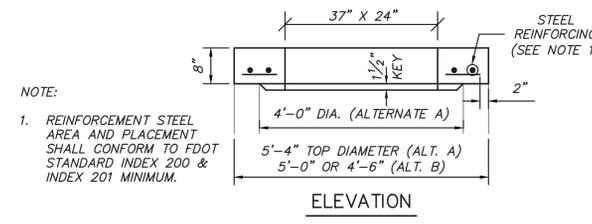
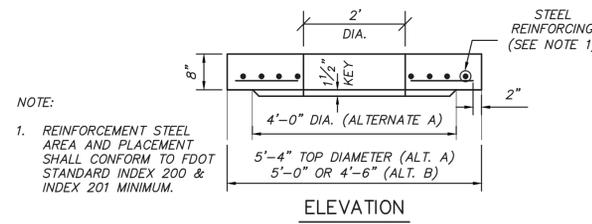
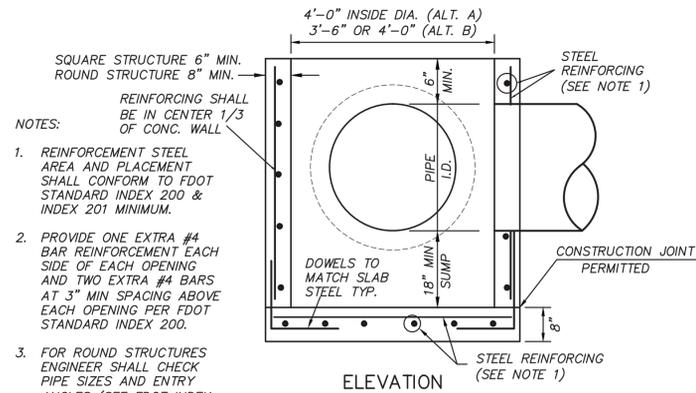
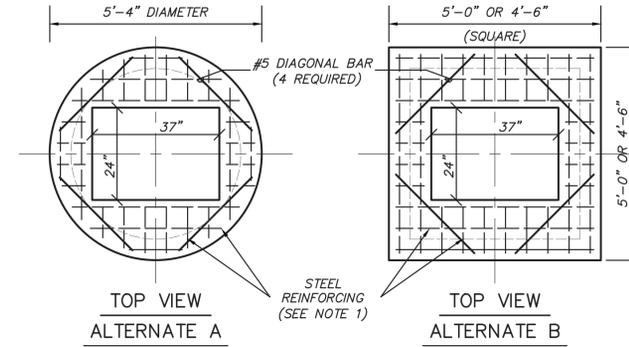
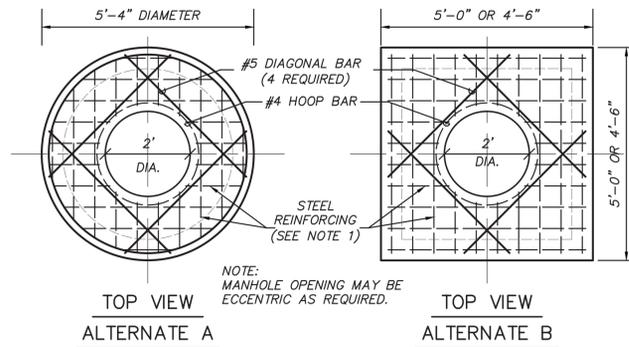
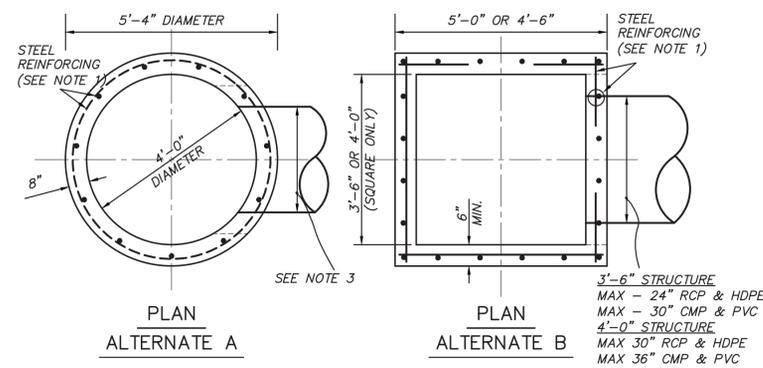
GENERAL DRAINAGE NOTES:

- WALL OF CIRCULAR STRUCTURES [ALTERNATE "A"] OR RECTANGULAR STRUCTURES [ALTERNATE "B"] SHALL BE CONSTRUCTED OF CONCRETE ONLY. THE CONCRETE MAY BE CAST-IN-PLACE OR PRECAST AS APPROVED BY THE ENGINEER.
- WALL REINFORCEMENT AND THICKNESS ARE FOR EITHER CAST-IN-PLACE OR PRECAST CONCRETE UNITS EXCEPT THAT THE MANUFACTURER MAY FURNISH PRECAST CIRCULAR UNITS IN ACCORDANCE WITH A.S.T.M. SPECIFICATION C-478 UP TO 96" IN DIA. OR PRECAST CIRCULAR UNITS A.S.T.M. SPECIFICATION C-76, TABLE III, FOR "B" WALL CONCRETE PIPE WITH 6" MINIMUM WALL THICKNESS. TOP AND FLOOR SLAB THICKNESS AND REINFORCEMENT ARE FOR ALL TYPES OF CONSTRUCTION.
- ELLIPTICAL STEEL, A.S.T.M. SPECIFICATION C-76 TABLE III, "B" WALL, IS MODIFIED TO USE A CIRCULAR CAGE OF STEEL AREA EQUAL TO THAT OF THE ELLIPTICAL CAGE AND PLACED IN THE CENTER ONE-THIRD OF THE WALL. THIS MODIFICATION IS FOR PRECAST CIRCULAR UNITS PRODUCED IN ACCORDANCE WITH A.S.T.M. C-76.
- RECTANGULAR STRUCTURES MAY BE ROTATED AS DIRECTED BY THE ENGINEER IN ORDER TO FACILITATE CONNECTIONS BETWEEN THE STRUCTURE WALLS AND THE STORM SEWER PIPES.
- EMBEDMENT HOOKS IN THE TOP AND BOTTOM SLABS MAY BE REPLACED WITH STRAIGHT EMBEDMENTS.
- CORNER FILLETS FOR RECTANGULAR STRUCTURES ARE NECESSARY ONLY WHEN STRUCTURES ARE USED IN CONJUNCTION WITH CIRCULAR INLET THROATS [TYPES 1, 2, 3 AND 4] OR WHEN USED ON SKEW WITH RECTANGULAR INLET THROATS [TYPE 5 AND 6].
- INLET THROATS, RISERS OR MANHOLE TOPS SHALL BE SECURED TO STRUCTURES WITH A MINIMUM OF 6 - NO. 4 BARS 12" LONG OR KEYS.
- LARGER THAN SPECIFIED STANDARD UNITS MAY BE SUBSTITUTED AT THE CONTRACTOR'S OPTION WHEN THESE UNITS WILL NOT CAUSE OR INCREASE THE SEVERITY OF UTILITY CONFLICTS. SUCH LARGER UNITS SHALL BE FURNISHED AT NO ADDITIONAL COST TO THE OWNER. LARGER ALTERNATE "A" UNITS CANNOT REPLACE ALTERNATE "B" UNITS WITHOUT APPROVAL OF THE ENGINEER AND B.C.E.D. FOR COUNTY RIGHT-OF-WAY.
- GRATE AND FRAME FOR MANHOLES AND CATCH BASINS SHALL BE TRAFFIC BEARING DESIGN, WITH A MINIMUM COMBINED WEIGHT OF 410 POUNDS. MINIMUM LID WEIGHT OF 165 POUNDS.

JOSEPH W. ROLES, JR., P.E.
 REG. ENGINEER #16985
JOSEPH ROLES AND ASSOC., INC.
 CONSULTING ENGINEERS
 7501 N.W. 4th STREET, SUITE 101
 PLANTATION, FLORIDA 33317
 PHONE (954) 581-1945
 CERTIFICATE OF AUTHORIZATION NO. 3948

PEGASUS PARK PAVILION
 GULFSTREAM PARK
 HALLANDALE BEACH, FLORIDA
DRAINAGE DETAILS

DATE:	04/2016	AS SHOWN:	102-426-33	04/16
SCALE:		DESIGNED BY:	JWR	04/16
PROJECT NO.:	102-426-33	DRAWN BY:	JK	04/16
CHECKED BY:	JWR	CHECKED BY:	JWR	04/16



- NOTES:
1. REINFORCEMENT STEEL AREA AND PLACEMENT SHALL CONFORM TO FDOT STANDARD INDEX 200 & INDEX 201 MINIMUM.
 2. PROVIDE ONE EXTRA #4 BAR REINFORCEMENT EACH SIDE OF EACH OPENING AND TWO EXTRA #4 BARS AT 3" MIN SPACING ABOVE EACH OPENING PER FDOT STANDARD INDEX 200.
 3. FOR ROUND STRUCTURES ENGINEER SHALL CHECK PIPE SIZES AND ENTRY ANGLES (SEE FDOT INDEX 200, 3 OF 5)

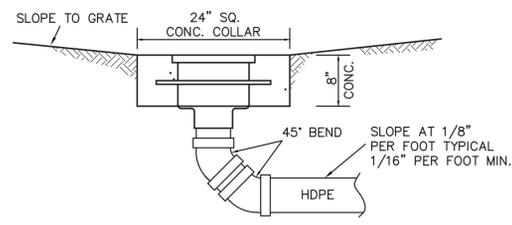
- NOTE:
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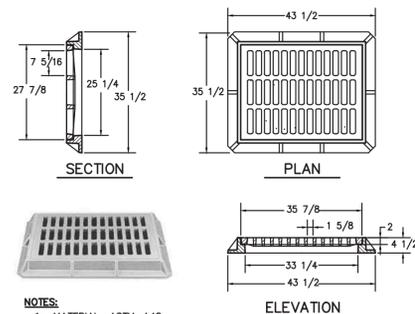
**TYPE "P" - MANHOLE & INLET
STRUCTURE BOTTOM**
NOT TO SCALE

**TYPE "P" - MANHOLE
TOP SLAB**
MANHOLE RING AND COVER - U.S. FOUNDRY
SERIES 420-C OR APPROVED EQUAL
NOT TO SCALE

**TYPE "P" - INLET
TOP SLAB**
INLET FRAME AND GRATE U.S. FOUNDRY
SERIES 4155-6209 OR APPROVED EQUAL
SERIES 5130-6168 OR APPROVED EQUAL
VALLEY GUTTER INLET - SERIES 5113-6194 OR APPROVED EQUAL
NOT TO SCALE

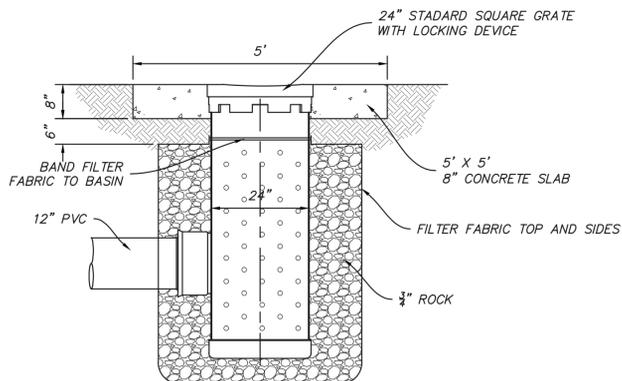
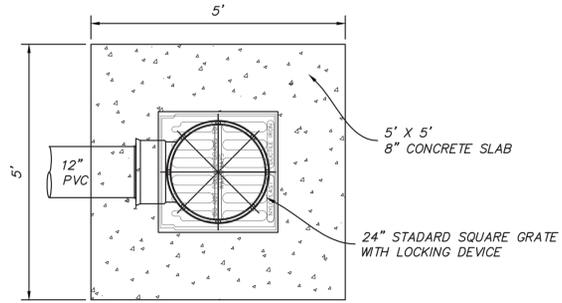


NYLOPLAST YARD DRAIN - DETAILS
N.T.S.

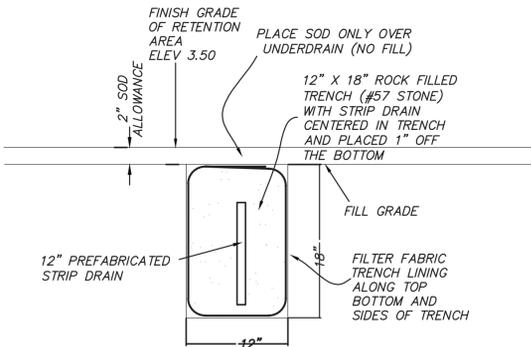


- NOTES:
- 1- MATERIAL: ASTM-A48 CLASS 308 GRAY IRON
 - 2- FRAME WT: 335 LBS. APP.
 - 3- GRATE WT: 265 LBS. APP.

USF 4155 FRAME & 6209 GRATE
N.T.S.

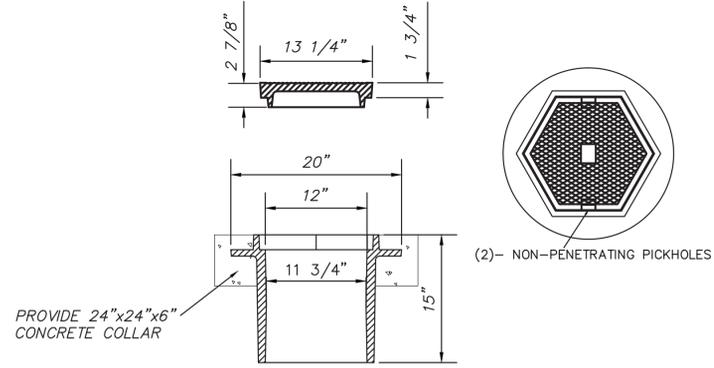


24\"/>



**RETENTION AREA
UNDERDRAIN DETAIL**

NOTE: FOR 12\"/>



**DRAINAGE LINE CLEANOUT BOX
USF 7635 RING & FJ COVER**
N.T.S.

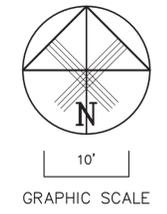
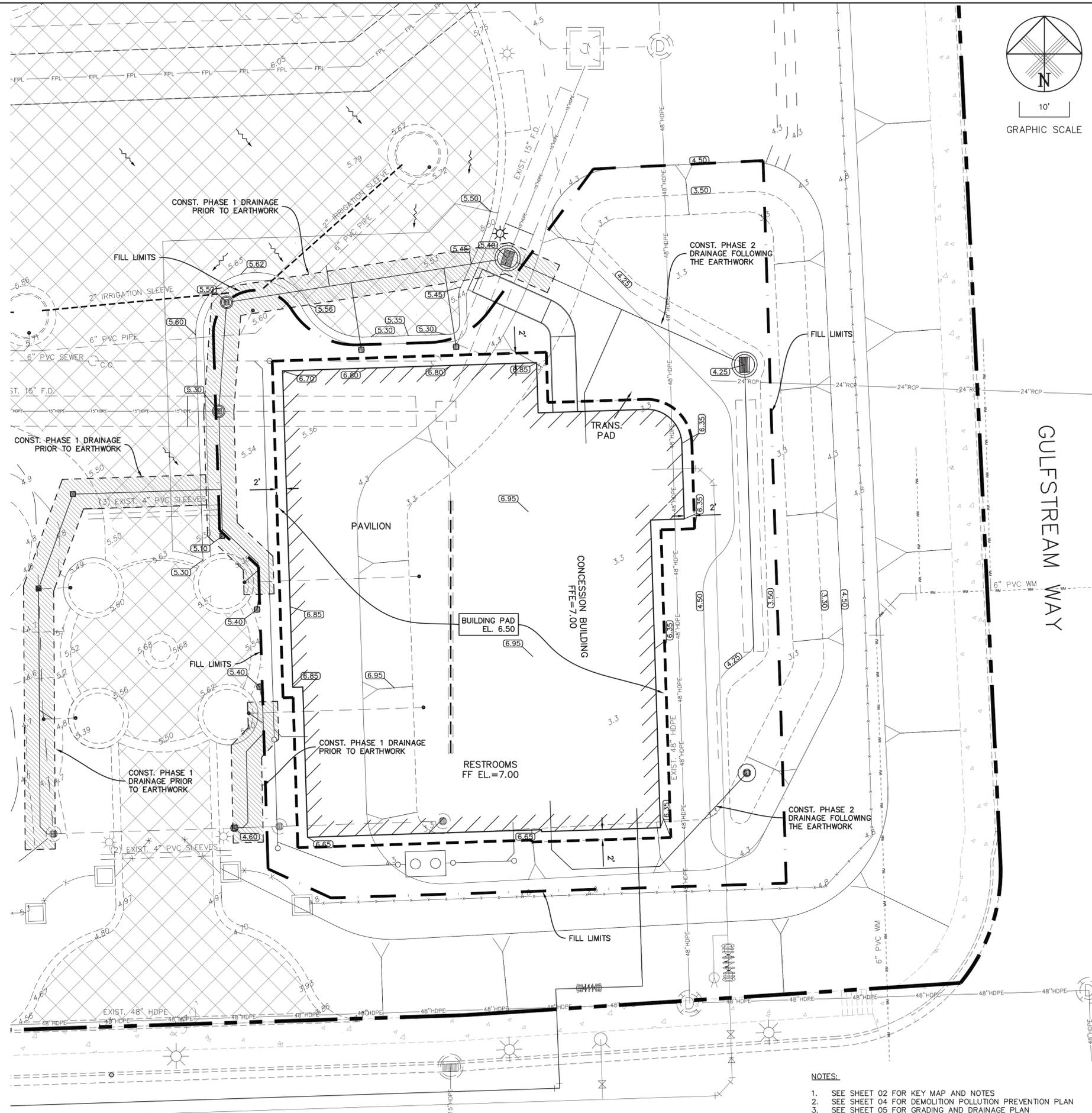
INFORMATION FOR REMOVAL OF EXISTING

JOSEPH ROLES AND ASSOC., INC.
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PLANTATION, FLORIDA 33317
PHONE: 954.581.1945
CERTIFICATE OF AUTHORIZATION NO. 3948



PEGASUS PARK PAVILION
GULFSTREAM PARK
HALLANDALE BEACH, FLORIDA
DRAINAGE DETAILS

DATE:	04/2016	AS SHOWN	102-426-33	04/16	04/16	04/16	DATE
PROJECT NO.	102-426-33	DESIGNED BY	JWR	CHECKED BY	JWR	NAME	
SCALE:	AS SHOWN	PROJECT NO.	102-426-33	DESIGNED BY	JWR	CHECKED BY	JWR
BY		DATE	04/16	BY		DATE	04/16



GULFSTREAM WAY

PARK LANE

- NOTES:
1. SEE SHEET 02 FOR KEY MAP AND NOTES
 2. SEE SHEET 04 FOR DEMOLITION POLLUTION PREVENTION PLAN
 3. SEE SHEET 05 FOR GRADING AND DRAINAGE PLAN
 4. SEE SHEET 09 FOR WATER AND SEWER PLAN
 5. ALL DEMOLITION TO BE COMPLETED PRIOR TO EARTHWORK.

NO.	DATE	BY

JOSEPH ROLES AND ASSOC., INC.
 CONSULTING ENGINEERS
 7501 N.W. 4th STREET, SUITE 101
 PLANTATION, FLORIDA 33317
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PEGASUS PARK PAVILION
 GULFSTREAM PARK
 HALLANDALE BEACH, FLORIDA
EARTHWORK PLAN

DATE	AS SHOWN	PROJECT NO.	DESIGNED BY	DRAWN BY	CHECKED BY	DATE
04/2016	JWR	102-426-33	JWR	JK	JWR	04/16

JOSEPH W. ROLES, JR., P.E.
 REG. ENGINEER #16985

SPECIFICATION FOR PRIVATE WATER DISTRIBUTION SYSTEM & WATER MAIN FOR FIRE HYDRANT SERVICE

A. SCOPE

THE WORK UNDER THIS SECTION INCLUDES SUPPLYING, HANDLING, STORING AND LAYING OF ALL PIPE, FITTINGS, VALVES AND APPURTENANT ITEMS FOR A COMPLETE WATER DISTRIBUTION SYSTEM AND THE WATER MAIN FOR FIRE SERVICE.

B. EXCAVATION AND BACKFILL

ALL EXCAVATION, BACKFILLING AND RELATED WORK SHALL CONFORM TO THE REQUIREMENTS OF THE TRENCH DETAILS ON THE PLANS.

C. MATERIALS

1. DUCTILE IRON PIPE AND FITTINGS

- a. DUCTILE IRON PIPE SHALL CONFORM TO ANSI SPECIFICATION A 21.51 (AWWA STANDARD C151) LATEST REVISION. DUCTILE IRON PIPE, CENTRIFUGALLY CAST IN METAL MOLDS OR SAND-LINED MOLDS WITH WALL THICKNESS CLASS 51 FOR 8" AND ABOVE, CLASS 52 FOR 4" & 6" AS SPECIFIED IN ANSI A 21.51 (AWWA STANDARD C150) LATEST REVISION, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- b. ALL DUCTILE IRON PIPE SHALL BE CEMENT LINED AND SEAL COATED IN ACCORDANCE WITH ANSI A 21.4 (AWWA STANDARD C104) LATEST REVISION. THE PIPE SHALL BE ADAPTED FOR USE WITH CLASS 250 FITTINGS THROUGH 12" AND FOR CLASS 150 FITTINGS IN SIZES 16" AND OVER.
- c. ALL PIPE FITTINGS AND SPECIALS INTENDED FOR CONVEYING OR TRANSMITTING SERVICE OF TREATED WATER SHALL BE DESIGNED FOR A MINIMUM WORKING PRESSURE OF 150 PSI. ALL PIPE FITTINGS AND SPECIALS INTENDED FOR CONVEYING OR TRANSMITTING WATER FOR A WATER MAIN FOR FIRE HYDRANT SERVICES SHALL BE DESIGNED FOR A MINIMUM WORKING PRESSURE OF 200 PSI

2. POLYVINYL CHLORIDE PIPE

- a. POLYVINYL CHLORIDE (PVC) SERIES 1120 PRESSURE PIPE (4" THROUGH 12") SHALL CONFORM TO AWWA STANDARDS C 900, LATEST REVISION OR C 905, LATEST REVISION. FOR PIPE LARGER THAN 12" PVC PRESSURE PIPE SHALL BE MADE FROM CLASS 12454-A OR CLASS 12454-B MATERIAL AND CONFORM WITH THE OUTSIDE DIAMETER OF CAST IRON PIPE WITH A MINIMUM WALL THICKNESS OF DR-18 FOR WATER DISTRIBUTION PIPE AND DR-14 FOR WATER MAIN FOR FIRE HYDRANT SERVICE.
- b. JOINTS FOR PVC PRESSURE PIPE SHALL BE BELL AND SPIGOT PUSH-ON RUBBER GASKET TYPE ONLY. NO SOLVENT WELD OR THREADED JOINTS WILL BE PERMITTED. OTHER TYPE JOINTS MAY BE CONSIDERED FOR SPECIFIED INSTALLATION UPON SUBMISSION OF SPECIFICATIONS AND APPROVAL BY THE ENGINEER.
- c. PVC FITTINGS 3" AND SMALLER SHALL BE OF MONOLITHIC CONSTRUCTION AND OF THE TYPE SPECIFIED BY THE MANUFACTURER OF THE PIPE BEING USED. NO SOLVENT WELDS WILL BE PERMITTED. FOR PIPE 4" TO 12" FITTINGS SHALL BE DUCTILE IRON MECHANICAL JOINT AND SHALL CONFORM TO AWWA SPECIFICATION C110 (ANSI 21.10). THE PRESSURE RATING SHALL BE 250 P.S.I. FOR ALL FITTINGS. ALL DUCTILE IRON FITTINGS SHALL BE SUPPLIED BY THE MANUFACTURER WITH A CEMENT LINING INSIDE AND COATED OUTSIDE WITH COAL-TAR ENAMEL OR EPOXY AND MECHANICAL RESTRAIN SYSTEM ("MEGA-LUG" OR EQUAL).

3. COPPER PIPE 3" IN DIAMETER AND SMALLER

- a. COPPER SUPPLY PIPING SHALL BE TYPE K, HEAVY AND HARD COPPER TUBING CONFORMING TO ASTM SPECIFICATION B-88 AND AWWA STANDARD 75-CR WITH SWEAT CAST BRASS FITTINGS.
- d. JOINTS SHALL BE MADE UP WITH 1000 DEGREE SILVER SOLDER. NO LEAD SOLDER IS PERMITTED.

4. POLYETHYLENE TUBING 3" IN DIAMETER AND SMALLER

- a. PLASTIC PIPE FOR SERVICE LATERALS SHALL BE POLYETHYLENE SDR-9 CTS-OD TUBING ONLY AND SHALL MEET THE FOLLOWING REQUIREMENTS:
- b. POLYETHYLENE TUBING SHALL BE EXTRUDED FROM PE34068 HIGH MOLECULAR WEIGHT MATERIALS, AS PER ANSI/AWWA STANDARD C-901 AND SHALL CONFORM TO ASTM SPECIFICATION D-2737 AND SHALL BE BLUE IN COLOR.
- c. TUBING UNDER PROPOSED ASPHALT PAVING SHALL BE INSTALLED IN A PVC SLEEVE. SERVICE CONNECTIONS SHALL BE INSTALLED AT THE LOCATIONS AND IN THE MANNER SHOWN ON THE DRAWINGS.
- d. SERVICE CLAMPS FOR PVC AND DUCTILE IRON MAINS SHALL BE THE DOUBLE-STRAP TAPPED SADDLE VARIETY. CORPORATION STOPS HAVE COMPRESSION CONNECTION OUTLET PIPE. CURB STOPS SHALL BE ANGLE METER STOPS WITH COMPRESSION CONNECTION INLET. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL COORDINATION OF EXISTING LINE CONNECTIONS. STAINLESS STEEL TUBE STIFFENER INSERT SHALL BE USED FOR P.E. TUBING SERVICES FOR FITTINGS.

5. GATE VALVES AND BOXES

- a. GATE VALVES 3" IN DIAMETER AND LARGER SHALL BE IRON BODY, NONRISING STEM, BRONZE MOUNTED GATE VALVES, MECHANICAL JOINT AND/OR SINGLE GASKET PUSH-ON TYPE, CONFORMING TO REQUIREMENTS OF THE AWWA STANDARD C500-80, LATEST REVISION, AND SHALL BE PROVIDED WITH A 2" SQUARE OPERATING NUT. VALVES SHALL BE OF THE RESILIENT SEAT DOUBLE-DISC TYPE AND SHALL TURN TO THE LEFT (COUNTERCLOCKWISE) TO OPEN. THE SEAT AND DISC RINGS SHALL HAVE SMOOTH, PERFECTLY MACHINED SURFACES AND SHALL BE WATERTIGHT WHEN IN CONTACT. ALL VALVES SHALL BE PROVIDED WITH O-RING SEALS. THE DESIGN AND MACHINING OF VALVES SHALL BE SUCH AS TO PERMIT REPLACING THE O-RING SEALS WHILE IN SERVICE WITHOUT UNDUE LEAKAGE.
- b. GATE VALVES FOR PIPE LESS THAN 3" IN DIAMETER SHALL CONFORM TO THE REQUIREMENTS OF FEDERAL SPECIFICATIONS W-V-54 FOR CLASS A, TYPE I, AND SHALL BE BRONZE, SINGLE WEDGE, NONRISING STEM, SCREWED BONNET, 125 POUND S.P., 200 POUND W.O.G., WITH STUFFING BOX REPACKABLE UNDER PRESSURE AND ALL PARTS RENEWABLE. ENDS SHALL BE AS SHOWN OR INDICATED ON THE DRAWINGS. VALVES SHALL CONFORM TO THE REQUIREMENTS OF AWWA C500.
- c. DUCTILE IRON VALVE BOXES SHALL BE PROVIDED FOR ALL VALVES INSTALLED UNDERGROUND. THE VALVE BOXES SHALL BE ADJUSTABLE TO FIT THE DEPTH OF EARTH COVER OVER THE VALVE AND SHALL BE DESIGNED SO AS TO PREVENT THE TRANSMISSION OF SURFACE LOADS DIRECTLY TO THE VALVE OR PIPING. VALVE BOXES SHALL HAVE AN INTERIOR DIAMETER OF NOT LESS THAN 5 INCHES. THE VALVE BOXES SHALL BE PROVIDED WITH COVERS MARKED WATER WHICH SHALL BE SO CONSTRUCTED AS TO PREVENT TIPPING OR RATTLING. THE PROTECTIVE RING SHALL BE CONSTRUCTED OF 2500 PSI CONCRETE MINIMUM. PROVIDE VALVE NUT EXTENSION AS REQUIRED.

6. JOINTS

MECHANICAL JOINTS CONSISTING OF BELL, SOCKET, GLAND, GASKET, BOLTS AND NUTS SHALL CONFORM TO AWWA C 111, LATEST REVISION. BOLTS SHALL BE HIGH STRENGTH, ANNEALED, DUCTILE IRON, T-HEAD TYPE HAVING HEXAGONAL NUTS. BOLTS AND NUTS SHALL BE MACHINED TRUE AND NUTS SHALL BE TAPPED AT RIGHT ANGLES TO A SMOOTH BEARING SURFACE. SINGLE SEAL GASKET PUSH-ON TYPE JOINTS SHALL CONFORM TO THE REQUIREMENTS OF AWWA C 111, LATEST REVISION.

7. GASKETS

GASKETS SHALL BE OF VULCANIZED CRUDE RUBBER OR POLYVINYL CHLORIDE PLASTISOL. GASKETS SHALL HAVE PLAIN TIPS UNLESS OTHERWISE SPECIFIED.

8. HYDRANTS

FIRE HYDRANTS SHALL BE PER JURISDICTIONAL REQUIREMENTS FOR MANUFACTURER AND SHALL BE CONSISTENT WITH OTHER HYDRANTS IN THE SAME SYSTEM. FIRE HYDRANTS SHALL BE OF THE COMPRESSION TYPE WITH BREAK AWAY UPPER SECTIONS CAPABLE OF READY REPLACEMENT WITHOUT WATER LOSS IN THE EVENT OF TRAFFIC DAMAGE. THEY SHALL BE DESIGNED FOR A WORKING PRESSURE OF 150 POUNDS PER SQUARE INCH AND SHALL CONFORM TO AWWA STANDARD C502, LATEST REVISION. EACH HYDRANT SHALL BE FITTED WITH ONE 4-1/2" PUMPER CONNECTION, AND TWO 2-1/2" HOSE CONNECTIONS, BOTH HAVING THREADS THAT CONFORM TO THE FIRE DIVISION STANDARD FOR THE AREA. HOSE CAPS SHALL BE CHAINED TO THE HYDRANT BARREL AND FITTED WITH NUTS SIMILAR TO THE HYDRANT OPERATING NUTS. EACH HYDRANT SHALL HAVE A BARREL OF SUFFICIENT LENGTH TO BRING THE BOTTOM OF THE 6" PIPE CONNECTION 3' BELOW THE SURFACE OF THE FINISHED GROUND. EACH HYDRANT SHALL BE MADE IN AT LEAST TWO SECTIONS BOLTED TOGETHER. ALL INTERIOR WORKING PARTS OF THE HYDRANT SHALL BE REMOVABLE FROM THE TOP OF THE HYDRANT TO ALLOW REPAIRS WITHOUT REMOVING THE HYDRANT BARREL AFTER IT HAS BEEN INSTALLED. HYDRANTS SHALL HAVE RENEWABLE O-RING STEM SEALS. HYDRANT BARRELS SHALL BE PAINTED TO CONFORM TO CURRENT UTILITY OR FIRE DEPARTMENT STANDARDS.

9. HYDRANT GUARD POSTS

GUARD POSTS FOR HYDRANTS SHALL BE 4" DUCTILE IRON PIPE AND CONCRETE FILLED, PAINTED YELLOW AND SHALL CONFORM TO THE DETAILS IN THE DRAWINGS.

10. TAPPING SADDLES

TAPPING SADDLES SHALL BE DOUBLE STRAP AND ARE TO BE FABRICATED OF DUCTILE IRON OR BRONZE AND SUITABLE FOR EITHER WET OR DRY INSTALLATION. THE SEALING GASKET IS TO BE THE O-RING TYPE SUITABLE FOR THE APPLICABLE SERVICE. THE OUTLET FLANGE IS TO BE ANSI B16.1, 125 LB. STANDARD. THE STRAPS AND BOLTS ARE TO BE FABRICATED OF STAINLESS STEEL. ON SADDLE OUTLETS 2" AND SMALLER, NO FLANGES WILL BE PERMITTED.

11. TAPPING SLEEVES

m. STEEL TAPPING SLEEVES SHALL HAVE A WELDED STEEL BODY WITH FLAT FACED STEEL FLANGE, RECESSED FOR A TAPPING VALVE, IN ACCORDANCE WITH MSS STANDARD S.P.-60. GASKETS SHALL BE NEOPRENE "O" RING TYPE WITH SOME TYPE OF GASKET RESTRAINT INCORPORATED IN THE SLEEVE.

n. D.I. TAPPING SLEEVES SHALL BE OF THE MECHANICAL JOINT TYPE HAVING A FLAT FACED D.I. FLANGE, RECESSED FOR A TAPPING VALVE. ALL END AND SIDE GASKETS SHALL BE TOTALLY CONFINED.

12. SAND

SAND FOR PVC PIPE ENCASEMENT, IF SPECIFIED ON THE DRAWINGS, SHALL BE SAND OR ROCK PARTICLES WHICH PASS A NO. 4 SIEVE AND ARE RETAINED ON THE NO. 200 SIEVE.

D. SHOP DRAWINGS

SEVEN COPIES OF THE FOLLOWING SHOP DRAWINGS MUST BE SUBMITTED FOR APPROVAL PRIOR TO CONSTRUCTION:

- a. MILL TEST CERTIFICATES ON PIPE
- b. VALVES AND BOXES
- c. HYDRANTS
- d. BLOW OFF VALVES
- e. TAPPING SADDLES AND VALVE.

E. PIPE INSPECTION

THE CONTRACTOR SHALL OBTAIN FROM THE PIPE MANUFACTURER A CERTIFICATE OF INSPECTION TO THE EFFECT THAT THE PIPE AND FITTINGS SUPPLIED HAVE BEEN INSPECTED AT THE PLANT AND HAVE BEEN FOUND TO MEET THE REQUIREMENTS OF THIS CONTRACT.

F. PIPE COVER REQUIREMENTS

WATER MAINS SHALL BE LAID WITH A MINIMUM COVER OF 36" BELOW FINISHED GRADE FOR PVC PIPE AND 30" MINIMUM COVER FOR DUCTILE IRON PIPE, UNLESS OTHERWISE INDICATED.

G. INSTALLATION

1. LAYING PIPE

- a. PIPE BEDDING: IN AREAS WHERE MUCK OR UNSUITABLE MATERIALS ARE ENCOUNTERED IN THE BOTTOM OF THE TRENCH, THE UNSUITABLE MATERIALS SHALL BE REMOVED TO A DEPTH AS DIRECTED BY THE ENGINEER AND REPLACED WITH SUITABLE FILL MATERIAL.
- b. CRADLE: UPON SATISFACTORY EXCAVATION OF THE PIPE TRENCH AND COMPLETION OF THE PIPE BEDDING, A CONTINUOUS TROUGH FOR THE PIPE BARREL AND RECESSES FOR THE PIPE BELLS, OR COUPLINGS, SHALL BE EXCAVATED BY HAND DIGGING. WHEN THE PIPE IS LAID IN THE PREPARED TRENCH, TRUE TO LINE AND GRADE, THE PIPE BARREL SHALL RECEIVE CONTINUOUS, UNIFORM SUPPORT, AND NO PRESSURE WILL BE EXERTED ON THE PIPE JOINTS FROM THE TRENCH BOTTOM.
- c. CLEANLINESS: THE INTERIOR OF THE PIPE SHALL BE THOROUGHLY CLEANED OF ALL FOREIGN MATTER BEFORE BEING LOWERED INTO THE TRENCH AND SHALL BE KEPT CLEAN DURING LAYING OPERATIONS BY MEANS OF PLUGS OR OTHER APPROVED METHODS. DURING SUSPENSION OF WORK FOR ANY REASON AT ANY TIME, A SUITABLE STOPPER SHALL BE PLACED IN THE END OF THE LAST PIPE LAID TO PREVENT MUD OR OTHER FOREIGN MATERIAL FROM ENTERING THE PIPE.
- d. GRADIENT: LINES SHALL BE LAID STRAIGHT, AND DEPTH OF COVER SHALL BE MAINTAINED UNIFORM WITH RESPECT TO FINISH GRADE, WHETHER GRADING IS COMPLETED OR PROPOSED AT TIME OF PIPE INSTALLATION.
- e. RESTRAINTS: ALL PIPE ANCHORAGE FOR FITTINGS, VALVES AND PIPE BELLS SHALL BE BY MECHANICAL RESTRAINTS (MEGA-LUG OR EQUAL) AND SHALL BE PLACED AT ALL BENDS, TEES, PLUGS AND OTHER FITTINGS TO PROVIDE LATERAL SUPPORT. ALL PRIVATE WATER MAIN PIPE REQUIRING 200 PSI OPERATING PRESSURES FOR FIRE HYDRANT USE SHALL BE FULLY RESTRAINED, INCLUDING ALL PIPE JOINTS AND FITTINGS. CONCRETE THRUST BLOCKS SHALL NOT BE USED UNLESS APPROVED AND DIRECTED BY THE ENGINEER AND SHALL CONFORM TO THE DETAILS AND DIMENSIONS SHOWN ON THE PLANS.

2. PIPE JOINTS

- a. TYPE: THE JOINTS OF ALL PIPELINES SHALL BE MADE WATER TIGHT. THE SPECIFIC TYPE OF JOINTS TO BE USED IN CERTAIN LOCATIONS SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION. WHERE SHOWN ON THE DRAWINGS, ALL PIPE JOINTS SHALL BE CONTINUOUSLY JOINED BY USE OF MECHANICAL JOINT RESTRAINTS OR RETAINING GLANDS BOLTED TOGETHER WITH THREADED STEEL RODS, OR SUCH OTHER METHODS THAT ACHIEVE THE SAME PURPOSE AND SHALL CONFORM TO THE APPLICATION PROVISIONS OF AWWA STANDARD C600, LATEST REVISION.
- b. MECHANICAL JOINTS: ALL TYPES OF MECHANICAL JOINT PIPES SHALL BE LAID AND JOINED IN FULL CONFORMANCE WITH MANUFACTURER'S RECOMMENDATIONS. ONLY SPECIALLY SKILLED WORKMEN SHALL BE PERMITTED TO MAKE UP MECHANICAL JOINTS. TORQUE WRENCHES SET AS SPECIFIED IN AWWA SPECIFICATIONS C111 SHALL BE USED.
- c. PUSH-ON JOINTS: PUSH-ON JOINTS SHALL BE MADE IN STRICT, COMPLETE COMPLIANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. GASKET LUBRICANT SHALL BE AN INERT, NONTOXIC, WATER SOLUBLE COMPOUND INCAPABLE OF HARBORING, SUPPORTING OR CULTURING BACTERIAL LIFE. BELL RESTRAINTS SHALL BE INSTALLED AS PER THE FITTING RESTRAIN TABLE. ALL PIPE BELLS SHALL BE RESTRAINED FOR THE WATER MAIN FOR FIRE HYDRANT SERVICES.

3. INSTALLING GATE VALVES AND BOXES

- a. GATE VALVES: GATE VALVES SHALL BE CAREFULLY INSPECTED, OPENED WIDE AND THEN TIGHTLY CLOSED, AND THE VARIOUS NUTS AND BOLTS SHALL BE TESTED FOR TIGHTNESS. SPECIAL CARE SHALL BE TAKEN TO PREVENT ANY FOREIGN MATTER FROM BECOMING LODGED IN THE VALVE SEAT. GATE VALVES, UNLESS SHOWN OTHERWISE, SHALL BE SET WITH THEIR STEMS VERTICALLY ABOVE THE CENTER LINE OF THE PIPE. ANY GATE VALVE THAT DOES NOT OPERATE CORRECTLY SHALL BE REMOVED AND REPLACED.
- b. VALVE BOXES: VALVE BOXES SHALL BE CAREFULLY CENTERED OVER THE OPERATING NUTS OF THE GATE VALVES SO AS TO PERMIT A GATE WRENCH TO BE FITTED EASILY TO THE OPERATING NUT. IN AREAS TO BE PAVED, VALVE BOXES SHALL BE SET TO CONFORM TO THE LEVEL OF THE FINISHED SURFACE AND HELD IN POSITION BY A RING OF CONCRETE PLACED UNDER THE SUPPORT FLANGE. THE VALVE BOX SHALL NOT TRANSMIT SURFACE LOADS TO THE PIPE OR VALVE. CARE SHALL BE TAKEN TO PREVENT EARTH AND OTHER MATERIALS FROM ENTERING THE VALVE BOX. ALL VALVE BOXES SHALL BE ADJUSTED TO FINISH GRADE.

4. INSTALLING HYDRANTS

HYDRANTS SHALL BE SET PLUMB AND IN TRUE ALIGNMENT WITH MAINS. THEY SHALL BE SECURELY BRACED AGAINST THE END OF THE TRENCH WITH CONCRETE THRUST BLOCKS AS SHOWN ON THE DRAWINGS. COARSE MATERIAL SHALL BE PLACED AROUND THE DRAIN VALVE OUTLET TO INSURE THE FREE DRAINING OF THE HYDRANT BARREL. BACKFILLING AROUND HYDRANTS SHALL BE CAREFULLY DONE SO AS NOT TO DISTURB THE HYDRANT AND SHALL BE THOROUGHLY COMPACTED SO AS TO SUPPORT THE HYDRANT securely.

H. CONCRETE

CONCRETE TO BE USED FOR PROTECTIVE RINGS, THRUST BLOCKS, ETC.. SHALL BE 2,500 PSI CONCRETE IN 28 DAYS.

I. FLUSHING

ALL WATER MAINS SHALL BE FLUSHED TO REMOVE ALL SAND AND OTHER FOREIGN MATTER. THE VELOCITY OF THE FLUSHING WATER SHALL BE AT LEAST 4' PER SECOND. FLUSHING SHALL BE TERMINATED AT THE DIRECTION OF THE ENGINEER. THE CONTRACTOR SHALL DISPOSE OF THE FLUSHING WATER WITHOUT CAUSING A NUISANCE OR PROPERTY DAMAGE. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY SUPPLYING THE WATER FOR FLUSHING AND COOPERATE AS TO TIMES OF DAY, ETC.. FOR USE OF THE FLUSHING WATER. ALL WATER USED FOR FLUSHING AND TESTING WILL BE FURNISHED BY THE CONTRACTOR, AT NO EXPENSE TO THE OWNER OR ENGINEER.

J. HYDROSTATIC TESTS

- 1. ALL COMPONENTS OF THE WATER SYSTEM, INCLUDING FITTINGS, HYDRANTS, CONNECTIONS AND VALVES, SHALL BE SUBJECTED TO PRESSURE TESTING IN ACCORDANCE WITH ACCORDANCE WITH ANSI/AWWA STANDARD C-600-05 OR LATEST REVISION. NO TESTING SHALL BE DONE UNTIL ALL PIPE RESTRAINT IS IN PLACE AND SET. ANY THRUST BLOCK CONCRETE MUST CURE 5 DAYS BEFORE PRESSURE TESTING COMMENCES.

a. FOR THE WATER DISTRIBUTION SYSTEM, PORTION OF THE SYSTEM UNDER TEST SHALL BE FILLED WITH WATER AND SUBJECTED TO A SUSTAINED PRESSURE OF 150 POUNDS PER SQUARE INCH FOR THE WATER DISTRIBUTION PIPE AND 200 POUNDS PER SQUARE INCH FOR THE WATER MAIN FOR FIRE HYDRANT SERVICE. THE PIPING SHALL BE TESTED IN SECTIONS NOT EXCEEDING 2,500 FEET. WHILE THE SYSTEM IS BEING FILLED, AIR SHALL BE CAREFULLY AND COMPLETED EXHAUSTED. IF PERMANENT AIR VENTS ARE NOT LOCATED AT ALL HIGH POINTS, THE CONTRACTOR SHALL PROVIDE FITTINGS OR VALVES AT SUCH POINTS TO BLEED AIR FROM THE LINES, AT NO EXPENSE TO THE OWNER.

- b. TEST PRESSURE SHALL BE MAINTAINED BY PUMPING FOR AT LEAST 2 HOURS AND UNTIL ALL SECTIONS UNDER TEST HAVE BEEN CHECKED FOR EVIDENCE OF LEAKAGE. RATE OF LOSS SHALL NOT EXCEED THAT SPECIFIED BELOW FOR THE WATER DISTRIBUTION SYSTEM. VISIBLE LEAKS SHALL BE CORRECTED REGARDLESS OF TOTAL LEAKAGE SHOWN BY TEST.
- c. ALL PUMPS, GAUGES AND MEASURING DEVICES SHALL BE FURNISHED, INSTALLED AND OPERATED BY THE CONTRACTOR, AND ALL SUCH EQUIPMENT AND DEVICES AND THEIR INSTALLATION SHALL BE APPROVED BY THE ENGINEER. ALL PRESSURE AND LEAKAGE TESTING SHALL BE DONE IN THE PRESENCE OF A REPRESENTATIVE OF THE ENGINEER.
- d. NO INSTALLATION SHALL BE ACCEPTABLE UNTIL THE LEAKAGE IS LESS THAN THE NUMBER OF GALLONS PER HOUR AS DETERMINED BY THE FORMULA IN WHICH:

$$L = \frac{SD(P)1/2}{148,000}$$

L = ALLOWABLE LEAKAGE, IN GALLONS PER HOUR
S = LENGTH OF MAIN BEING TESTED IN FEET
D = PIPE DIAMETER, IN INCHES
P = AVERAGE TEST PRESSURE DURING THE TEST, IN P.S.I. GAUGE

WATER SHALL BE SUPPLIED TO THE MAIN DURING THE TEST PERIOD AS REQUIRED TO MAINTAIN THE TEST PRESSURE AS SPECIFIED. THE QUANTITY USED SHALL BE COMPARED TO THE ABOVE-ALLOWABLE QUANTITY.

- e. FOR THE WATER MAIN FOR FIRE SERVICE, THE APPROPRIATE NFPA-24 TEST AND LEAKAGE FORMULA REQUIREMENTS MAY BE APPLIED BY THE CITY FIRE DEPARTMENT, IN ADDITION TO THE STANDARD AWWA TESTING PROCEDURES. THE CONTRACTOR SHALL PERFORM THE NECESSARY TESTING TO SATISFY THE CITY AT NO COST TO THE OWNER.

K. DISINFECTION

BEFORE ANY PORTION OF WATER DISTRIBUTION SYSTEM OR WATER MAIN FOR FIRE HYDRANT SERVICE IS CONNECTED TO THE MAINS, IT SHALL BE DISINFECTED IN ACCORDANCE WITH THE REQUIREMENTS IN ACCORDANCE WITH ANSI/AWWA STANDARD C-651. SAMPLE POINTS AND NUMBER ARE INDICATED ON THE DRAWINGS. TWO CONSECUTIVE DAYS OF PASSING SAMPLES ARE REQUIRED. THE CONTRACTOR WILL ADHERE TO THE UTILITY REQUIREMENTS FOR LABORATORY SELECTION AND TESTING. ALL COST OF TESTING IS THE RESPONSIBILITY OF THE CONTRACTOR. THE HEALTH DEPARTMENT SHALL PROVIDE A RELEASE OF THE SYSTEM BEFORE THE CONNECTION IS FACILITATED BASED UPON FINAL SUCCESSFUL TESTING AND CERTIFICATION OF THE SYSTEM

L. AS-BUILT SURVEY

THE CONTRACTOR SHALL PROVIDE TO THE ENGINEER AS-BUILT SURVEY INFORMATION AND DRAWINGS SHOWING THE LOCATION AND ELEVATION OF ALL INSTALLED PIPES, VALVES, FITTINGS, FIRE HYDRANTS, SERVICES, ETC.. FOR THE SYSTEM, INCLUDING TOP OF PIPE ELEVATIONS NOT EXCEEDING 100 FOOT INTERVALS. THE SURVEY SHALL BE PERFORMED BY A SURVEYOR AND MAPPER REGISTERED IN THE STATE OF FLORIDA.

M. CONNECTION TO EXISTING SYSTEM

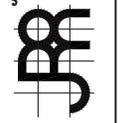
ALL CONNECTIONS TO EXISTING MAINS SHALL BE MADE UNDER THE DIRECTION OF THE OWNERS OF THE EXISTING SYSTEM. VALVES SEPARATING THE MAINS BEING INSTALLED FROM EXISTING MAINS SHALL BE OPERATED BY OR UNDER THE DIRECTION OF SAID OWNER'S REPRESENTATIVE. THE COST OF THE WORK IN MAKING THE CONNECTIONS SHALL BE PAID FOR BY THE CONTRACTOR.

N. PIPE COLOR CODE REQUIREMENTS

- 1. ALL WATER MAIN PIPE, INCLUDING FITTINGS SHALL BE COLOR CODED OR MARKED USING BLUE AS A PREDOMINANT COLOR TO DIFFERENTIATE DRINKING WATER FROM RECLAIMED OR OTHER WATER.
- 2. UNDERGROUND PLASTIC PIPE SHALL BE SOLID-WALL BLUE PIPE, SHALL HAVE A CO-EXTRUDED BLUE EXTERNAL 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 THE PIPE WALL.
- 3. PIPE STRIPPED DURING MANUFACTURING OF THE PIPE SHALL HAVE CONTINUOUS STRIPES THAT RUN PARALLEL TO THE AXIS OF THE PIPE, THAT ARE LOCATED AT NO GREATER THAN 90-DEGREE INTERVALS AROUND THE PIPE, AND THAT WILL REMAIN INTACT DURING ARID AFTER INSTALLATION OF THE PIPE.
- 4. IF TAPE OR PAINT IS USED TO STRIPE PIPE DURING INSTALLATION OF THE PIPE, THE TAPE OR PAINT SHALL BE APPLIED IN A CONTINUOUS LINE THAT RUNS PARALLEL TO THE AXIS OF THE PIPE AND THAT IS LOCATED ALONG THE TOP OF THE PIPE; FOR PIPES WITH AN INTERNAL DIAMETER OF 24 INCHES OR GREATER, TAPE OR PAINT SHALL BE APPLIED IN CONTINUOUS LINES ALONG EACH SIDE OF THE PIPE AS WELL AS ALONG THE TOP OF THE PIPE.
- 5. ABOVEGROUND PIPE SHALL BE PAINTED BLUE OR SHALL BE COLOR CODED OR MARKED LIKE UNDERGROUND PIPE.

NO.	DATE	BY

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CERTIFICATE OF AUTHORIZATION NO. 3948

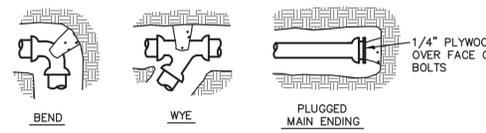
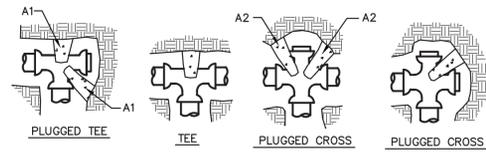


PEGASUS PARK PAVILION
GULFSTREAM PARK
HALLANDALE BEACH, FLORIDA
WATER SPECIFICATIONS

DATE:	04/2016	AS SHOWN:	AS SHOWN
SCALE:	102'-426'-33'	PROJECT NO.:	102-426-33
DESIGNED BY:	JWR	DATE:	04/16
DRAWN BY:	IK	CHECKED BY:	JWR
CHECKED BY:	JWR	DATE:	04/16

MIN. LENGTH OF PIPE (FEET) TO BE RESTRAINED
 (SOURCES: EBAA IRON RESTRAINT LENGTH CALCULATION PROGRAM FOR PVC PIPE, RELEASE 3.1, AND
 DIPRA THRUST RESTRAINT FOR DUCTILE IRON PIPE, RELEASE 3.2)

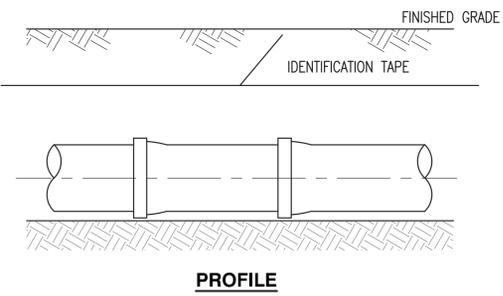
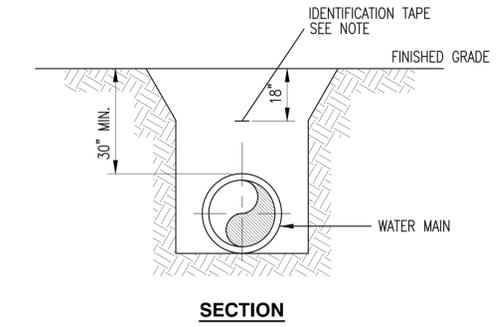
FITTING TYPE	PIPE SIZE								
	4"	6"	8"	10"	12"	16"	20"	24"	
90° HORIZ. BEND	14	20	25	30	35	45	54	62	
45° HORIZ. BEND	6	8	11	13	15	19	22	26	
22.5° HORIZ. BEND	3	4	5	6	7	9	11	12	
11.25° HORIZ. BEND	1	2	3	3	4	4	5	6	
90° VERT. OFFSET	UPPER BEND	29	41	53	64	74	95	115	134
	LOWER BEND	7	10	13	16	19	25	30	35
45° VERT. OFFSET	UPPER BEND	12	19	24	29	34	39	48	56
	LOWER BEND	3	4	6	7	8	10	12	15
22.5° VERT. OFFSET	UPPER BEND	6	9	12	14	17	19	23	27
	LOWER BEND	1	2	4	4	4	5	6	7
11.25° VERT. OFFSET	UPPER BEND	3	4	6	7	8	9	11	13
	LOWER BEND	1	1	1	2	2	2	3	3
PLUG (DEAD END)	32	45	59	70	83	107	129	151	
IN-LINE VALVE	32	45	45	45	45	55	65	80	
TEE (BRANCH RESTRAINT)	4" X	23	-	-	-	-	-	-	
	6" X	21	35	-	-	-	-	-	
	8" X	18	34	47	-	-	-	-	
	10" X	16	32	46	58	-	-	-	
	12" X	13	30	44	57	69	-	-	
	16" X	7	26	41	55	67	90	-	
	20" X	1	21	38	52	65	88	109	
	24" X	1	16	34	49	62	86	108	
	30" X	1	8	28	44	58	83	106	
	36" X	1	1	22	39	54	80	103	
REDUCER (LARGER PIPE RESTRAINT)	42" X	1	1	15	33	49	77	100	
	48" X	1	1	7	27	44	73	97	
	6" X	23	-	-	-	-	-	-	
	8" X	38	25	-	-	-	-	-	
	10" X	57	43	24	-	-	-	-	
	12" X	72	60	44	41	-	-	-	
	16" X	99	90	78	75	45	-	-	
	20" X	123	116	107	105	81	45	-	
24" X	146	140	132	131	111	82	45		



VOLUME OF THRUST BLOCKS FOR VERTICAL BENDS IN CUBIC YARDS

FITTING SIZE	BENDS		
	11-1/4°	22-1/2°	45°
6"	1.0	1.0	1.6
8"	1.0	1.0	1.6
10"	1.0	1.5	2.9
12"	1.2	4.4	4.6
14"	1.7	3.4	6.6
16"	2.3	4.6	8.9
18"	3.0	6.0	11.6
20"	3.8	7.6	14.6
24"	4.7	9.4	18.1
30"	6.8	13.6	26.2

GALVANIZED RESTRAINING RODS (FOR FITTINGS 4" THRU 12" USE #6 RODS EMBEDDED 30") FOR FITTINGS 14" THRU 16" USE #8 RODS EMBEDDED 36")



NOTE: DETECTABLE IDENTIFICATION TAPE SHALL BE INSTALLED DIRECTLY OVER CENTERLINE OF THE PIPE AT 18-INCHES BELOW FINISHED GRADE.

- REQUIRED VOLUMES OR BEARING AREAS INDICATED AT FITTINGS ARE BASED UPON TEST PRESSURES OF 150 PSIG, 2,000 LBS/SF ALLOWABLE SOIL BEARING STRESS AND THE WEIGHT OF CONCRETE EQUAL TO 4050 LBS/CY.
- BEARING AREAS OF THRUST BLOCKS SHALL NOT BE LESS THAN 1.0 SF.
- KEEP CONCRETE CLEAR OF JOINT AND JOINT ACCESSORIES AND WRAP THE FITTING WITH VISQUEEN PRIOR TO PLACING CONCRETE.
- BEARING AREAS, VOLUMES, AND SPECIAL BLOCKING DETAILS SHOWN ON DRAWINGS SHALL PRECEDENCE OVER THIS STANDARD.
- THRUST BLOCKS FOR VERTICAL BENDS HAVING DOWNWARD RESULTANT THRUSTS SHALL BE THE SAME AS HORIZONTAL BENDS.
- COMPUTE BEARING AREAS FOR HORIZONTAL BEND THRUST BLOCKS AT DIFFERENT TEST PRESSURES AND SOIL BEARING STRESSES WITH THE FOLLOWING EQUATION:
 BEARING AREAS = (REQUIRED TEST PRESSURE/150) X (2,000/ACTUAL SOIL BEARING STRESS) X (TABLE VALUE)
- COMPUTE VOLUMES OF CONCRETE FOR VERTICAL BENDS HAVING UPWARD RESULTANT THRUSTS AT DIFFERENT PRESSURES WITH THE FOLLOWING EQUATION:
 VOLUME = (REQUIRED TEST PRESSURES/150) X (TABLE VALUE)

BEARING AREA OF THRUST BLOCKS IN SQUARE FEET (HORIZONTAL FITTINGS)

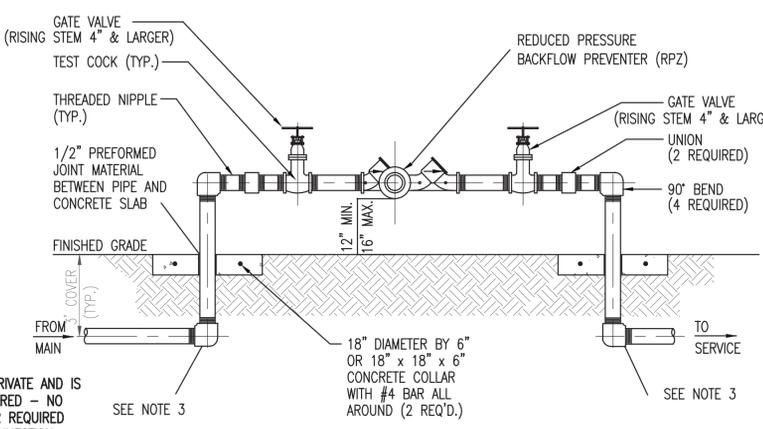
FITTING SIZE	BENDS			TEE, WYE, PLUG OR CAP	TEE (PLUGGED RUN)		90° BEND OR PLUGGED CROSS
	11-1/4°	22-1/2°	45°		A1	A2	
4"			1.0	1.0	1.9	1.4	1.4
6"		1.0	1.6	2.1	4.3	3.0	3.3
8"	1.0	1.5	2.9	3.8	7.6	5.4	5.3
10"	1.2	4.4	4.6	5.9	11.8	8.4	8.4
12"	1.7	3.4	6.6	8.5	17.0	12.0	12.0
14"	2.3	4.6	8.9	11.5	23.0	16.3	16.3
16"	3.0	6.0	11.6	15.0	30.0	21.3	21.3
18"	3.8	7.6	14.6	19.0	38.0	27.0	27.0
20"	4.7	9.4	18.1	23.5	47.0	33.3	33.3
24"	6.8	13.6	26.2	34.0	68.0	48.0	48.0
30"	10.6	21.2	41.0	53.0	106.0	75.0	75.0

THRUST BLOCK NOTES AND DETAILS

THRUST BLOCKS TO BE USED ONLY WHERE SPECIFIED ON THE DRAWINGS OR AS DIRECTED BY THE ENGINEER - ALL FITTING AND PIPE RESTRAINTS TO BE MEG-A-LUG MECHANICAL RESTRAINING DEVICES OR EQUAL AND TIE RODS UNLESS OTHERWISE NOTED.

- NOTES:
- THE DATA IN THE ABOVE TABLE ARE BASED UPON THE FOLLOWING INSTALLATION CONDITIONS:
 SOIL TYPE-SAND TEST PRESSURE-150 PSI/200 PSI DEPTH OF BURY-3'
 TRENCH TYPE-3 SAFETY FACTOR-1.5 VERTICAL OFFSET-3'
 - THE RESTRAINED PIPE LENGTHS APPLY TO DUCTILE IRON AND PVC PIPE.
 - ALL JOINTS BETWEEN UPPER AND LOWER BENDS SHALL BE RESTRAINED.
 - RESTRAINED PIPE LENGTHS APPLY TO PIPE ON BOTH SIDES OF VALVES AND FITTINGS.

PRESSURE MAIN MECHANICAL THRUST RESTRAINT MINIMUM PIPE LENGTHS

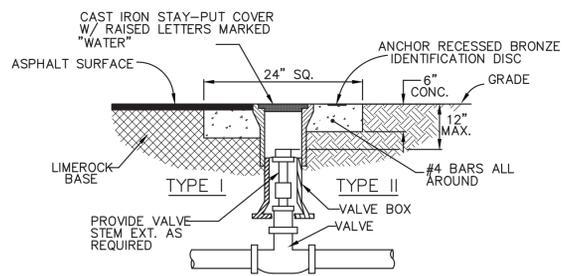


NOTE: SYSTEM IS PRIVATE AND IS MASTER METERED - NO WATER METER REQUIRED FOR THIS CONNECTION

- NOTES:
- ALL PIPE AND FITTINGS 2" AND SMALLER SHALL BE THREADED BRASS, AS SHOWN. ALL 3" PIPE TO BE GALVANIZED STEEL.
 - ALL PIPE FITTINGS LARGER THAN 4" SHALL BE CEMENT-LINED DUCTILE IRON WITH FLANGED FITTINGS FOR ABOVEGROUND USE. MECHANICAL JOINT FITTINGS SHALL BE USED UNDERGROUND WITH RESTRAINED JOINTS AND THRUST COLLARS.
 - MEGALUGS, OR EQUAL, CAN BE USED IN PLACE OF RESTRAINED JOINTS ON ALL UNDERGROUND DUCTILE IRON PIPING (4" AND LARGER).
 - PAINT ALL ABOVEGROUND DUCTILE PIPING, FITTINGS AND VALVES BLUE.

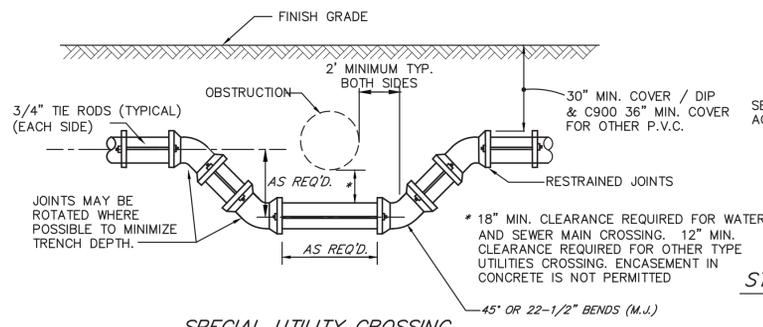
REDUCED PRESSURE BACKFLOW PREVENTER

SCALE: NONE



- NOTES:
- IF VALVE EXTENSIONS ARE USED THEY MUST BE DUCTILE IRON PIPE.
 - VALVE EXTENSION MUST HAVE SCREW TO PREVENT REMOVAL OF EXTENSION (AS APPLICABLE). CENTERING RING MUST BE PROVIDED.
 - IF A VALVE BOX EXTENSION IS REQUIRED, IT MUST BE EITHER PVC C900 OR DIP. NO SDR 35 IS PERMITTED.

TYPICAL GATE VALVE & BOX DETAIL

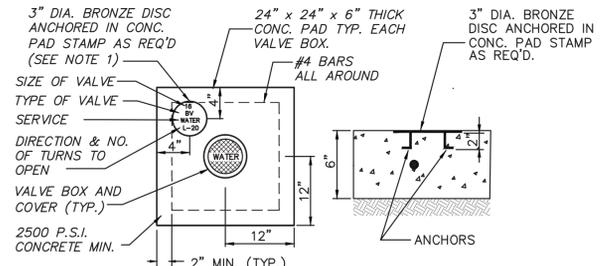


SPECIAL UTILITY CROSSING

- NOTES:
- THE DEFLECTION TYPE CROSSING SHALL BE USED WHENEVER POSSIBLE. THE FITTING TYPE CROSSING BE USED ONLY WHERE SPECIFIC OR AS DIRECTED BY THE ENGINEER.
 - FOR JOINT DEFLECTION CROSSING USE NO MORE THAN 75% OF MANUFACTURER'S ALLOWABLE MAXIMUM JOINT DEFLECTION.
 - WHEN TIE RODS ARE USED FOR PIPE RESTRAINT COAT TIE RODS WITH A BITUMINOUS COATING (2 COATS MIN.) AFTER INSTALLATION.

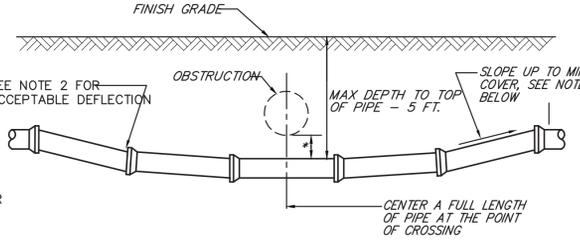
UTILITY CROSSINGS

SCALE: NONE



NOTE: BRONZE IDENTIFICATION DISC SHALL BE REQUIRED FOR ALL VALVES, AND SHALL INDICATE: SIZE OF VALVE, TYPE OF VALVE, SERVICE DIRECTION AND NUMBER OR TURNS TO OPEN/CLOSE.

VALVE COLLAR DETAIL



STANDARD SHALLOW UTILITY CROSSING - DEFLECTION TYPE

- IF A MINIMUM 18" VERTICAL SEPARATION CANNOT BE MAINTAINED USING PIPE DEFLECTION FOR WATER MAINS AND SEWER FORCE MAINS CROSSINGS OF ANY SIZE, EITHER PVC OR DIP PIPE, THE CONTRACTOR WILL PROVIDE BENDS AS NOTED. EACH BEND OF WHICH WILL BE RESTRAINED BY "MEGA-LUGS" AND WITH THE ADDITION OF THREADED RODS IF REQUIRED. ALL RESTRAINTS TO BE INSPECTED BY THE ENGINEER AND UTILITY PRIOR TO BACKFILL.

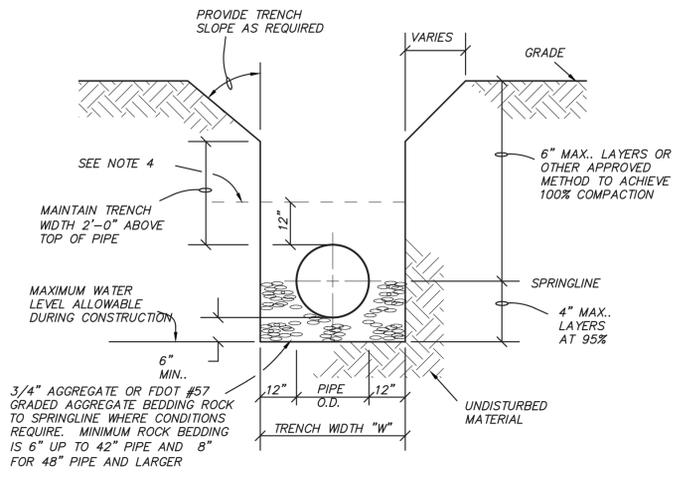
NO.	DATE	BY

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 PLANTATION, FLORIDA 33317
 PHONE (954) 581-1945
 CERTIFICATE OF AUTHORIZATION NO. 3948



PEGASUS PARK PAVILION
 GULFSTREAM PARK
 HALLANDALE BEACH, FLORIDA
POTABLE WATER DETAILS

DATE	AS SHOWN	PROJECT NO.	DESIGNED BY	DRAWN BY	CHECKED BY	DATE
04/2016	JWR	102-426-33	IK	JWR	JWR	04/16

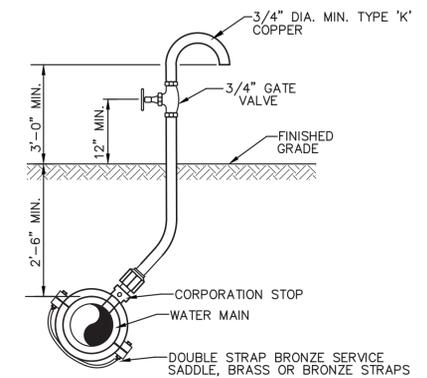


TRENCH DETAIL

TRENCH CONSTRUCTION NOTES

- WHERE SOIL CONDITIONS CANNOT BE MAINTAINED AS SHOWN ABOVE THE CONTRACTOR SHALL PROVIDE HIS ALTERNATE PLAN FOR TRENCH CONSTRUCTION TO THE ENGINEER OF RECORD AND THE CITY FOR APPROVAL.
- SHEETING REQUIREMENTS WILL BE DETERMINED IN THE FIELD. SEE PROJECT SPECIFICATIONS.
- COMPACTION PERCENTAGES REFER TO AASHTO T-99 STANDARD PROCTOR.
- MECHANICAL COMPACTION NOT ALLOWED BELOW 12" ABOVE THE PIPE.
- PVC AND HDPE PIPE TO HAVE ROCK BACKFILL TO PIPE SPRINGLINE AND SAND OR AGGREGATE BEDDING AND/OR ENVELOPE AS REQUIRED IN AREAS WHERE TRENCH BACKFILL IS NOT SUITABLE DUE TO ROCK. ENVELOPE TO BE MIN. 12 INCHES AROUND THE PIPE.
- MAINTAIN TRENCH WALL PER OSHA REQUIREMENTS AND STATE OF FLORIDA TRENCH SAFETY ACT.

A CORPORATION STOP SHALL BE INSTALLED WITH A LENGTH OF COPPER TUBING EXTENDING ABOVE THE GROUND. THE TUBING SHALL BE INSTALLED WITH A 180° BEND.

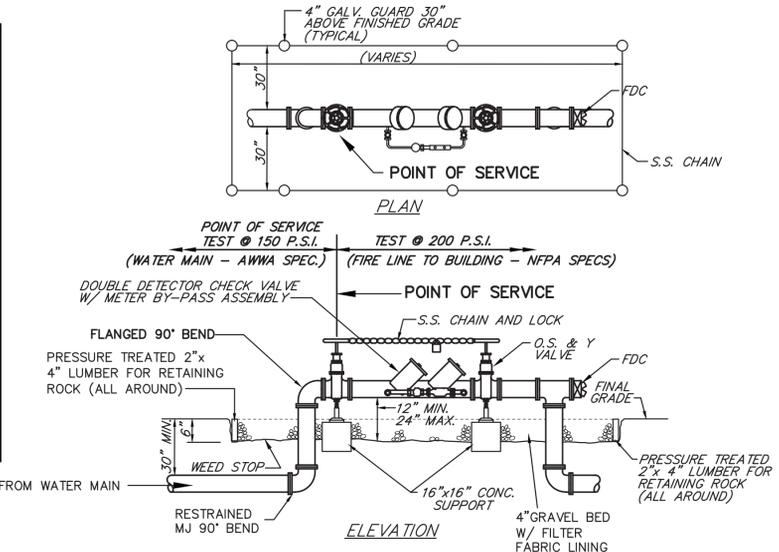


NOTE :
1. SAMPLING POINTS SHALL BE LOCATED AND LATER REMOVED AS REQUIRED BY HEALTH DEPARTMENT. CORPORATION STOP SHALL BE REMOVED AND SADDLE PLUGGED WITH A BRASS FITTING.

BACTERIOLOGICAL SAMPLING POINT

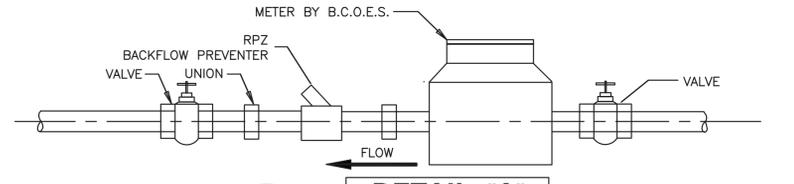
UNDERGROUND FIRE MAIN NOTES

- UNDERGROUND FIRE SPRINKLER SYSTEM SHALL BE INSTALLED BY A CONTRACTOR LICENSED BY THE STATE SPECIFICALLY TO INSTALL FIRE PREVENTION SYSTEMS PER FLORIDA STATUTE 633.
- THE UNDERGROUND FIRE SPRINKLER SYSTEM SHALL CONSTITUTE ALL PIPING AND APPURTENANCES FROM THE "POINT OF SERVICE". THE POINT OF SERVICE IS THE POINT AT WHICH ALL UNDERGROUND PIPING FOR A SPRINKLER SYSTEM USING WATER AS THE EXTINGUISHING AGENT BECOMES USED EXCLUSIVELY FOR THE SPRINKLER SYSTEM.
- REFER TO FIRE PROTECTION DRAWINGS FOR CONSTRUCTION PAST THE POINT OF SERVICE. UNDERGROUND FIRE SPRINKLER PIPING SHOWN BEYOND THE POINT OF SERVICE ON THIS PLAN IS FOR GENERAL ALIGNMENT AND COORDINATION ONLY AND NOT FOR CONSTRUCTION.



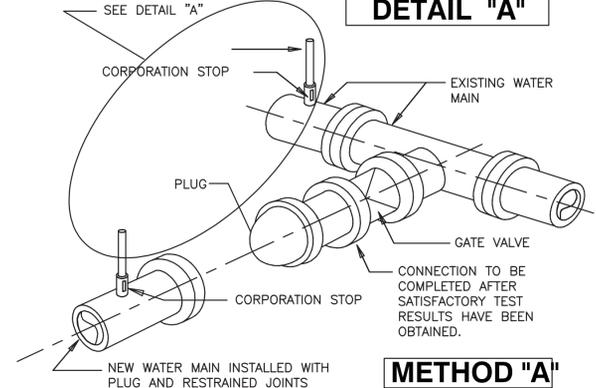
- NOTES:
- ALL PIPING SHALL BE D.I.P. CL 50/52 AS APPLICABLE TO MINIMUM STANDARDS.
 - ALL LOW FLOW METER PIPING SHALL BE BRASS OR COPPER.
 - PROTECTIVE 4" GALV. GUARD POSTS SHALL BE SPACED EVENLY APART AS SHOWN ABOVE OR IN ACCORDANCE WITH INSPECTOR'S DIRECTIONS. CHAIN SHALL BE LOOPED THROUGH EYELETS CAST IN CONCRETE TOP.
 - PIPING AND ASSEMBLY SHALL BE PAINTED WITH LINEAR POLYURETHANE SYSTEM.

DOUBLE CHECK DETECTOR ASSEMBLY
SCALE: NONE (SEE UNDERGROUND FIRE MAIN NOTES)

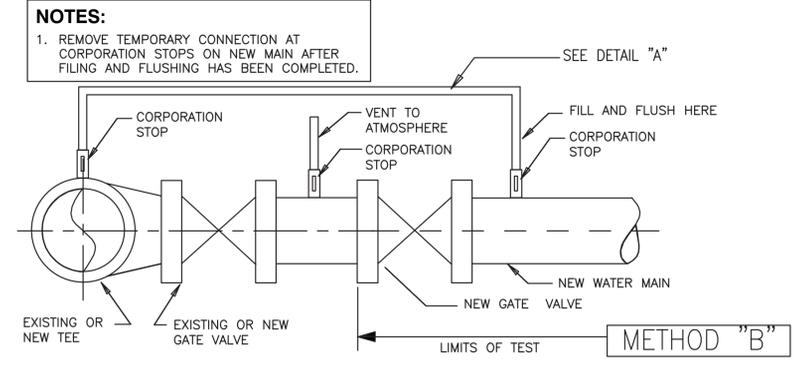


DETAIL "A"

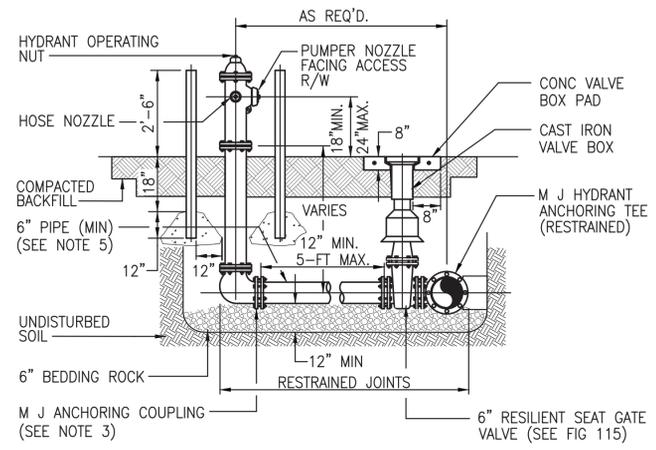
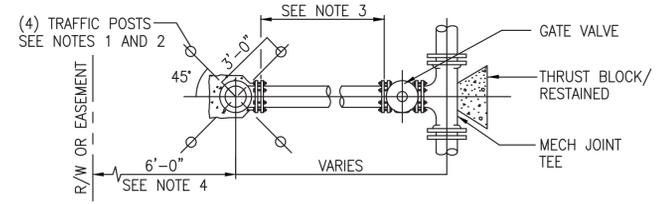
- NOTES:**
- REMOVE TEMPORARY CONNECTION AT CORPORATION STOP ON EXISTING MAIN AFTER FILLING AND FLUSHING OF NEW LINE.
 - DO NOT REMOVE TEMPORARY CONNECTION AT CORPORATION STOP ON NEW MAIN UNTIL ALL TESTING HAS BEEN COMPLETED.



METHOD "A"

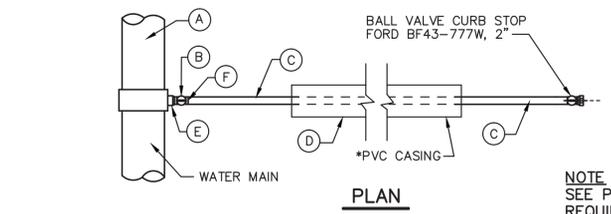


FILLING AND FLUSHING CONNECTION

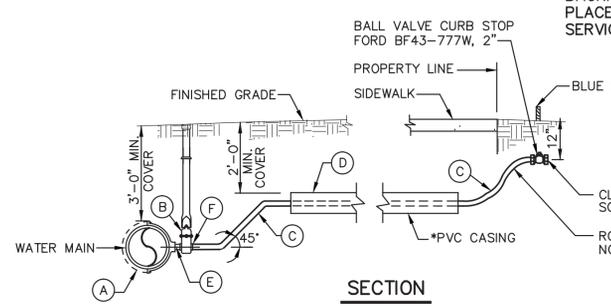


- NOTES:**
- HYDRANT GUARDS TO BE 4" DIAMETER GALVANIZED STEEL PIPE FILLED WITH CONCRETE AND TO BE PLACED AT LOCATION AS REQUESTED BY THE ENGINEER.
 - OMIT REAR GUARDS IN LOCATION WHERE SIDEWALKS EXIST.
 - USE MECHANICAL JOINT RETAINER GLAND "MEGA-LUG" OR EQUAL.
 - HYDRANT SETBACK SHALL BE SET TO A DISTANCE OF 7-FT MAXIMUM AND 4-FT MINIMUM FROM THE EDGE OF PAVEMENT OR CONFORM TO D.O.T. REQUIREMENTS WHERE APPLICABLE.
 - SERVICE LINES FOR FIRE HYDRANTS TO BE SIZED TO ALLOW A MINIMUM OF 20 PSI RESIDUAL PRESSURE AT THE HYDRANT UNDER FIRE FLOW CONDITIONS.
 - TWO BLUE REFLECTIVE PAVEMENT MARKERS FOR IDENTIFICATION OF THE HYDRANT AND ITS VALVE LOCATION SHALL BE INSTALLED ON THE CENTER OF THE ADJACENT PAVED DRIVE LANE TO THE HYDRANT; MARKERS SHALL BE SPACED 1-FT APART, PERPENDICULAR TO THE ROAD CENTERLINE.

FIRE HYDRANT ASSEMBLY DETAILS



PLAN

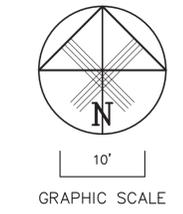
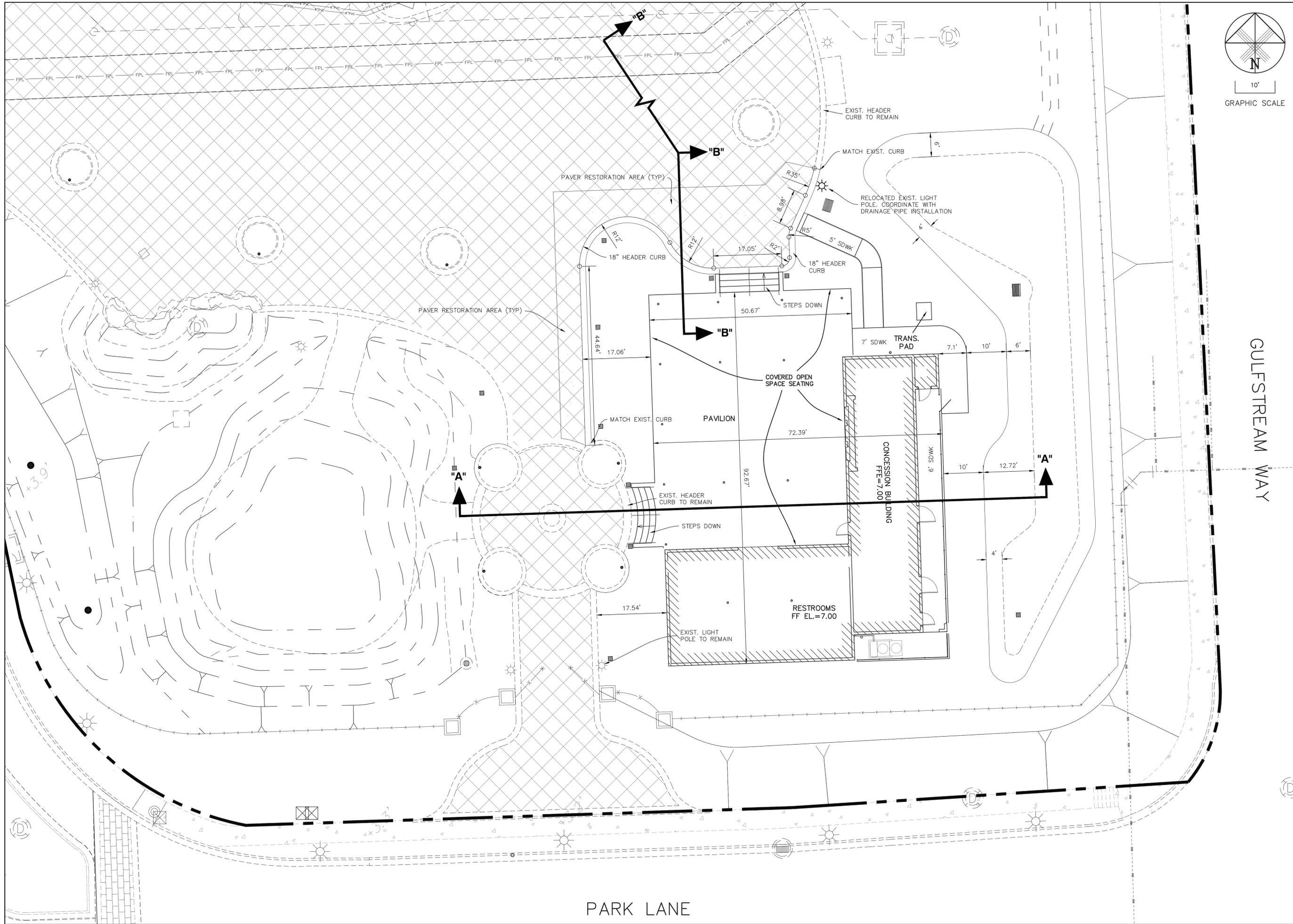


SECTION

- NOTE: SEE PLANS FOR LOCATION OF REQUIRED REDUCED PRESSURE BACKFLOW PREVENTOR (RPZ) PLACEMENT FOR EACH WATER SERVICE.
- 2" TAPPING SADDLE IRON PIPE THREADED F202
 - 2" RESILIENT SEATED GATE VALVE CLOW F81-03 MUELLER A-23-60-8 2" OPERATING NUT BOXED TO GRADE - C.I. BOX
 - 2" POLYETHYLENE DRISCO PIPE - C.T.S.
 - 2 1/2" SCH. 40
 - 2" X 3" BRASS NIPPLE
 - 2" MIP COUPLING

TYPICAL WATER SERVICE

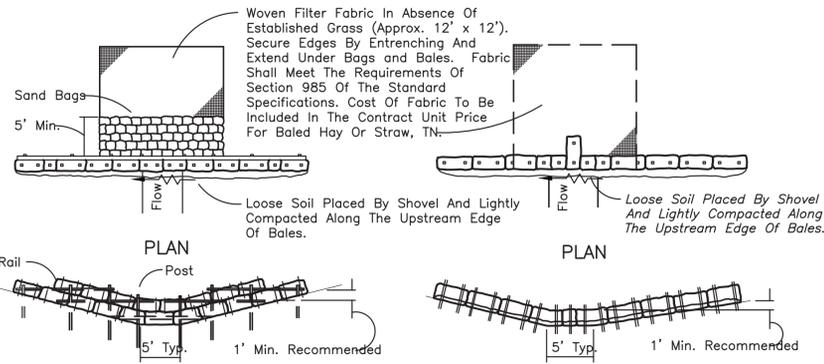
DATE:	04/2016	AS SHOWN:	102-426-33	04/16	NO.	DATE	BY
PROJECT NO.:	102-426-33	DESIGNED BY:	JWR	04/16	NO.	DATE	BY
DRANK BY:	IK	CHECKED BY:	JWR	04/16	NO.	DATE	BY
<p>JOSEPH W. ROLES, JR., P.E. REG. ENGINEER #16985</p>							
<p>JOSEPH ROLES AND ASSOC., INC. CONSULTING ENGINEERS 7501 N.W. 41st STREET, SUITE 101 PLANTATION, FLORIDA 33317 PHONE: (954) 581-1945 CERTIFICATE OF AUTHORIZATION NO. 3948</p>							
<p>PEGASUS PARK PAVILION GULFSTREAM PARK HALLANDALE BEACH, FLORIDA WATER DETAILS</p>							
<p>SHEET NO. 12 OF 15</p>							



GULFSTREAM WAY

PARK LANE

JOSEPH W. ROLES AND ASSOC., INC. CONSULTING ENGINEERS 7501 N.W. 4th STREET, SUITE 101 PLANTATION, FLORIDA 33317 PHONE 954-581-1945 CERTIFICATE OF AUTHORIZATION NO. 3948		NO.	DATE	BY
PEGASUS PARK PAVILION GULFSTREAM PARK HALLANDALE BEACH, FLORIDA PAVING AND GEOMETRY PLAN		REVISIONS		
DATE:	04/2016	DESIGNED BY:	JWR	04/16
SCALE:	AS SHOWN	DRAWN BY:	IK	04/16
PROJECT NO.:	102-426-33	CHECKED BY:	JWR	04/16
JOSEPH W. ROLES, JR., P.E. REG. ENGINEER #16965				
SHEET NO. 14 OF 15				



Anchor Lower Bales With 2 - 2" x 2" x 4' Stakes Per Bale.
Anchor Top Bales To Lower Bales With 2 - 2" x 2" x 4' Stakes Per Bale.

ELEVATION

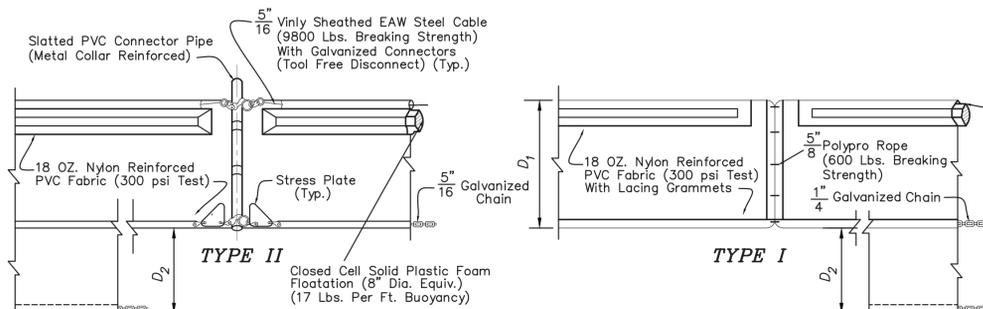
Application and Spacing: The use of Types I & II bale barriers should be limited to the conditions outlined in Chart I, Sheet 1 of 3, Index No. 102

TYPE II

BARRIER FOR UNPAVED DITCHES

ELEVATION

TYPE I

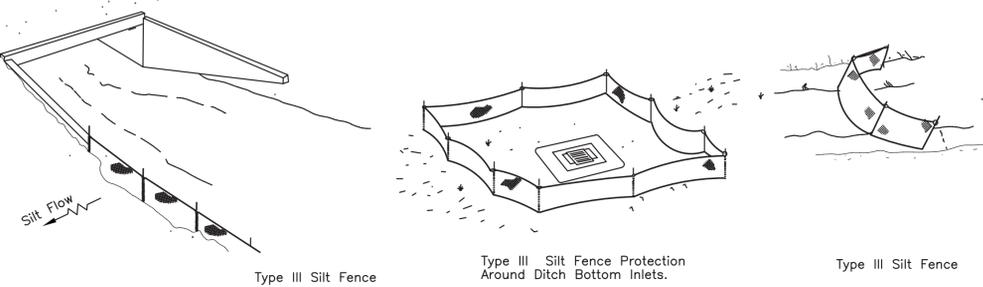


$D_1 = 5'$ Std. (Single Panel For Depths 5' or Less).
 $D_2 = 5'$ Std. (Additional Panel For Depths > 5').
Curtain To Reach Bottom Up To Depths Of 10 Feet.
Two (2) Panels To Be Used For Depths Greater Than 10 Feet Unless Special Depth Curtains Specifically Called For In The Plans Or As Determined By The Engineer.

NOTICE:

COMPONENTS OF TYPES I AND II MAY BE SIMILAR OR IDENTICAL TO PROPRIETARY DESIGNS. ANY INFRINGEMENT ON THE PROPRIETARY RIGHTS OF THE DESIGNER SHALL BE THE SOLE RESPONSIBILITY OF THE USER. SUBSTITUTIONS FOR TYPES I AND II SHALL BE AS APPROVED BY THE ENGINEER.

FLOATING TURBIDITY BARRIERS



SILT FENCE APPLICATIONS

TYPE III SILT FENCE

I. GENERAL NOTES

- (a) ALL EROSION CONTROL DEVICES SHALL BE IN PLACE PRIOR TO COMMENCEMENT OF WORK
- (b) INSTALL SILT FENCE WHERE REQUIRED BY THE APPROVED POLLUTION PREVENTION PLAN
- (c) PROVIDE HAY BALES FOR DITCH BLOCKS WHERE REQUIRED BY THE APPROVED POLLUTION PREVENTION PLAN
- (d) PROVIDE ROCK BAGS AT INLET OPENINGS WHERE REQUIRED BY THE APPROVED POLLUTION PREVENTION PLAN
- (e) ALL CONTROL DEVICES SHALL REMAIN IN PLACE UNTIL ALL UPSTREAM AREAS ARE FULLY STABILIZED AND PERMANENT GRASSING IS IN PLACE.

II. EROSION AND SEDIMENT CONTROLS

(1) TURBIDITY MONITORING PLAN

THE PURPOSE OF THE TURBIDITY MONITORING PLAN IS TO ENSURE THAT STATE WATER QUALITY STANDARDS ARE ADHERED TO IN ADJACENT SURFACE WATER THROUGHOUT THE AREA OF CONSTRUCTION.

A WATER QUALITY MONITORING PROGRAM SHALL BE IMPLEMENTED AS OUTLINED BELOW:

TURBIDITY SHALL BE EXPRESSED IN NEPHELOMETRIC TURBIDITY UNITS (ntu). BACKGROUND SAMPLES SHALL BE TAKEN 200 FEET UPSTREAM OF ANY CONSTRUCTION ACTIVITY WITHIN ADJACENT SURFACE WATER. SAMPLES SHALL BE TAKEN 200 DOWNSTREAM. SAMPLES SHALL BE TAKEN TWICE DAILY, WITH AT LEAST A FOUR-HOUR INTERVAL, DURING ALL WORK AUTHORIZED BY THIS PERMIT.

MONITORING SHALL BEGIN ON THE FIRST DAY OF CONSTRUCTION FOR ALL ACTIVITIES WITHIN OR TO SURFACE WATERS. MONITORING SHALL CEASE WHEN ALL CONSTRUCTION MONITORING ACTIVITIES ARE COMPLETED. THE MONITORING DATA MUST DEMONSTRATE THAT TURBIDITY ADJACENT AND 200 FEET DOWNSTREAM OF ALL PROPOSED ACTIVITIES MEETS OFW STANDARDS FOR NATURAL BACKGROUND TURBIDITY AND 200 FEET UPSTREAM OF EACH PROPOSED ACTIVITY FOR A PERIOD OF 7 CONSECUTIVE DAYS AFTER COMPLETION OF CONSTRUCTION. IF MONITORING SHOWS SUCH LEVELS TO BE EXCEEDED, CONSTRUCTION SHALL CEASE AND DISTRICT COMPLIANCE STAFF SHALL BE NOTIFIED IMMEDIATELY. WORK SHALL NOT RESUME UNTIL DISTRICT STAFF IS SATISFIED THAT ADEQUATE CORRECTIVE MEASURES HAVE BEEN TAKEN AND TURBIDITY HAS RETURNED TO ACCEPTABLE LEVELS. ALL MONITORING DATA SHALL BE MAINTAINED ON SITE AND BE AVAILABLE TO DISTRICT STAFF DURING REGULAR BUSINESS HOURS.

THE CONTENT OF THE DATA SHALL INCLUDE: (1) PERMIT AND APPLICATION NUMBER; (2) DATES OF SAMPLING AND ANALYSIS; (3) STATEMENT DESCRIBING THE METHODS USED IN COLLECTION, HANDLING, STORAGE AND ANALYSIS OF THE SAMPLES; (4) A MAP INDICATING THE SAMPLING LOCATIONS AND (5) A STATEMENT BY THE INDIVIDUAL RESPONSIBLE FOR IMPLEMENTATION OF THE SAMPLING PROGRAM CONCERNING THE AUTHENTICITY, PRECISION, LIMITS OF DETECTION AND ACCURACY OF THE DATA. MONITORING REPORTS SHALL ALSO INCLUDE THE FOLLOWING INFORMATION FOR EACH SAMPLE THAT IS TAKEN:

- (a) TIME OF DAY SAMPLES TAKEN;
- (b) DEPTH OF WATER BODY;
- (c) DEPTH OF SAMPLES;
- (d) ANTECEDENT WEATHER CONDITIONS;
- (e) WIND DIRECTION AND VELOCITY.

(2) STABILIZATION PRACTICES:

STABILIZATION MEASURES, SUCH AS SODDING OR SEEDING OF SIDE SLOPES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE SHALL THE TIME BE GREATER THAN 30 DAYS AFTER THE CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASES.

(3) STRUCTURAL PRACTICES INCLUDE:

- (a) SILT FENCES
- (b) HAY BALES
- (c) ROCK BAGS
- (d) SOIL TRACKING PREVENTION DEVICES AT CONSTRUCTION ENTRANCES/EXITS
- (e) FLOATING TURBIDITY BARRIER

(4) SILT FENCE LOCATIONS:

- (a) SILT FENCE SHALL BE USED ALONG THE LENGTH OF THE PROJECT WHERE THE EXISTING GROUND SLOPES AWAY FROM THE RIGHT-OF-WAY OR WHERE THERE IS POTENTIAL FOR SEDIMENT TO BE DIRECTED OFF-SITE.
- (b) STOCKPILE AREAS SHALL INCLUDE SILT FENCE AROUND THE PERIMETER.

(5) HAY BALE LOCATIONS:

GENERALLY, HAY BALES SHALL BE INSTALLED AT EXISTIN INLET LOCATIONS AND AS DITCH BLOCKS TO AVOID DOWNSTREAM SILTATION. DITCH BLOCKS SHOULD BE LOCATED APPROXIMATELY EVERY 300 FEET.

(6) ROCK BAG LOCATIONS:

GENERALLY, ROCK BAGS SHALL BE INSTALLED FOR THE PURPOSE OF CONTROLLING SILTATION AT CURB AND GUTTER INLETS WHERE STAKES CANNOT BE DRIVEN.

(7) CONSTRUCTION ENTRANCES/EXITS:

SOIL TRACKING PREVENTION DEVICES (STD. INDEX NO. 106) SHALL BE PROVIDED FOR BOTH ON-SITE AND OFF-SITE LOCATIONS OF STOCKPILED OR EXCAVATED MATERIAL, INCLUDING PROPOSED POND SITES. IF IMMEDIATELY ADJACENT TO A PUBLIC ROADWAY, THE ENGINEER SHALL BE RESPONSIBLE FOR MODIFYING THE SYSTEM OR PROCEDURES AS NEEDED.

(8) TURBIDITY BARRIER LOCATION:

- (a) STAKED TURBIDITY BARRIER SHALL BE USED AT AREAS WHERE PERMANENT WATER BODIES ARE LESS THAN 3 FEET DEEP.
- (b) ALL EROSION CONTROL DEVICES SHALL BE INSTALLED ACCORDING TO THE CONTRACT DOCUMENTS.
- (c) ANY TEMPORARY MATERIAL USED FOR POLLUTION OR EROSION CONTROL DURING CONSTRUCTION SHALL BE REMOVED AT THE COMPLETION OF THE PROJECT AND FINAL STABILIZATION OF SOILS HAS BEEN ACHIEVED.

III. OTHER CONTROLS:

(1) WASTE DISPOSAL:

- (a) THE CONTRACTOR WILL PROVIDE LITTER CONTROL AND COLLECTION WITHIN THE PROJECT BOUNDARIES DURING CONSTRUCTION ACTIVITIES.
- (b) ALL FERTILIZER AND CHEMICAL CONTAINERS SHALL BE DISPOSED OF BY THE CONTRACTOR ACCORDING TO EPA'S STANDARD PRACTICES AS DETAILED BY THE MANUFACTURER.
- (c) NO SOLID MATERIALS, INCLUDING BUILDING AND CONSTRUCTION MATERIALS, SHALL BE DISCHARGED TO WETLANDS OR BURIED ON-SITE.
- (d) ALL SANITARY WASTE WILL BE COLLECTED FROM PORTABLE UNITS BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR AS REQUIRED BY STATE REGULATIONS.

(2) OFF-SITE VEHICLE TRACKING - WILL BE CONTROLLED BY THE FOLLOWING METHODS:

- (a) LOADED HAUL TRUCKS ARE TO BE COVERED BY A TARP/AULIN AT ALL TIMES
- (b) EXCESS DIRT ON ROAD WILL BE REMOVED DAILY

(3) STATE AND LOCAL REGULATIONS: PERMITS WILL BE REQUIRED FROM THE FOLLOWING AGENCIES:

- (a) SOUTH FLORIDA WATER MANAGEMENT DISTRICT (SFWMD)
- (b) U.S. ARMY CORPS OF ENGINEERS (USACE)
- (c) FDEP (NPDES)

(4) APPLICATION OF FERTILIZERS AND PESTICIDES:

FERTILIZERS AND PESTICIDES WILL BE USED ON THIS PROJECT IN ACCORDANCE WITH "FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", SECTIONS 570, 575, OR 577, AT THE DISCRETION OF THE CONTRACTOR WITH THE COORDINATION OF THE ENGINEER.

(5) NON-STORMWATER (INCLUDING SPILL REPORTING):

THE CONTRACTOR WILL PROVIDE THE FDOT WITH AN EROSION CONTROL PLAN THAT WILL INCLUDE SPILL CONTAINMENT, REPORTING, AND RESPONSES. THE PLAN SHALL SPECIFY WHAT MANAGEMENT PRACTICES AND CONTAINMENT METHODS WILL BE USED TO PREVENT POTENTIAL POLLUTANTS (FUEL, LUBRICANTS, HERBICIDES, ETC.) FROM SPILLING ONTO THE SOIL OR INTO THE SURFACE WATERS. IF A SPILL DOES OCCUR, OR IF CONTAMINATED SOIL OR GROUNDWATER IS ENCOUNTERED, CONTACT DISTRICT CONTAMINATION IMPACT COORDINATOR.

IV. MAINTENANCE:

(1) THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE AND REPAIRS OF EROSION AND SEDIMENT CONTROL DEVICES, AND REMOVAL OF EROSION AND SEDIMENT CONTROL DEVICES WHEN NOTICE OF TERMINATION IS MAILED.

(2) INSTALLATION, MAINTENANCE, REPAIR AND REMOVAL REQUIRED FOR THE CONTROL AND ABATEMENT OF EROSION AND WATER POLLUTION SHALL BE INCLUDED IN THE INDIVIDUAL COSTS OF THE EROSION CONTROL DEVICES.

(3) THE FOLLOWING PRACTICES WILL BE USED TO MAINTAIN EROSION AND SEDIMENT CONTROLS: GENERAL - ALL CONTROL MEASURES WILL BE MAINTAINED DAILY BY THE CONTRACTOR. ALL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER. IF A REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF NOTICE.

(4) STRUCTURAL PRACTICES - BUILD-UP SEDIMENT WILL BE REMOVED FROM SILT FENCE AND STAKED TURBIDITY BARRIERS WHEN IT HAS REACHED ONE HALF OF THE HEIGHT OF THE FENCE. SODDING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH. HAY BALES SHALL BE REPLACED EVERY THREE (3) MONTHS OR WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORMWATER FLOW OR DRAINAGE. SILT FENCES SHALL BE REPLACED EVERY TWELVE (12) MONTHS OR WHEN IT HAS SERVED ITS USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORMWATER FLOW OR DRAINAGE. STABILIZED CONSTRUCTION ENTRANCES SHALL BE MAINTAINED TO PREVENT CLOGGING OF ROCK BEDDING WHICH MAY IMPEDE THE USEFULNESS OF THE STRUCTURE.

V. INSPECTION:

(1) THE CONTRACTOR SHALL INSTALL AND MAINTAIN RAIN GAUGES ON THE PROJECT SITE AND RECORD WEEKLY RAINFALL IN ACCORDANCE WITH THE NPDES PERMIT. ALL CONTROL MEASURES WILL BE MAINTAINED DAILY BY THE CONTRACTOR.

(2) ALL EROSION AND WATER POLLUTION ABATEMENT AND CONTROL MEASURES WILL BE INSPECTED DAILY BY CONTRACTOR'S PERSONNEL WHO ARE F.D.E.P. CERTIFIED STORMWATER MANAGEMENT INSPECTORS.

(3) THE CONTRACTOR SHALL COMPLETE ALL SWPPP INSPECTION REPORT FORMS REQUIRED FOR THE NPDES PERMIT.

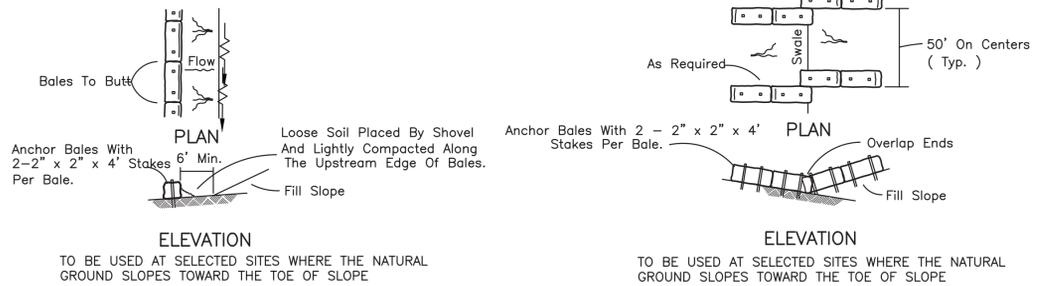
VI. TRACKING AND REPORTING:

(1) THE CONTRACTOR SHALL SUBMIT A WEEKLY REPORT TO THE CITY DOCUMENTING THE DAILY INSPECTIONS AND MAINTENANCE OR REPAIRS TO THE SEDIMENT CONTROL DEVICES. THE CONTRACTOR SHALL MAINTAIN ALL REQUIRED REPORTS AND COMPLETE ALL SWPPP INSPECTION FORMS.

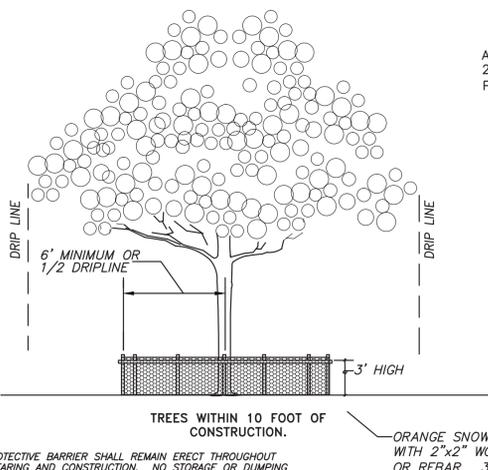
(2) PREPARATION OF ALL THE CONTRACTOR'S REPORTS OF INSPECTION, MAINTENANCE AND REPAIRS REQUIRED FOR THE CONTROL AND ABATEMENT OF EROSION AND WATER POLLUTION SHALL BE INCLUDED IN THE INDIVIDUAL COSTS OF THE EROSION CONTROL DEVICES.

(3) THE CONTRACTOR SHALL USE THE CONSTRUCTION INSPECTION REPORT (NO. 650-040-03), DATED 2/01, FOR DAILY INSPECTIONS.

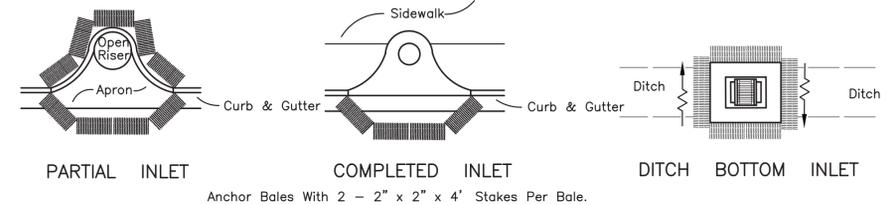
CONTRACTOR TO SIGN AN "EROSION AND SEDIMENTATION CONTROL AGREEMENT" IN ADDITION TO COMPLYING WITH THE POLLUTION PREVENTION CONTROL PLAN.



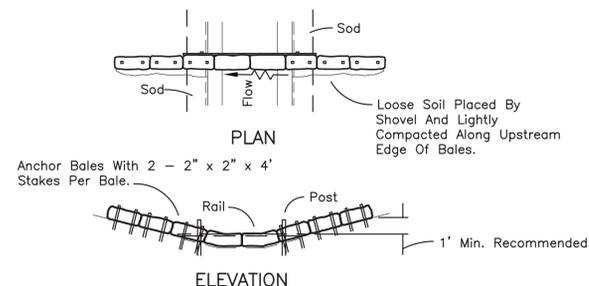
BARRIERS FOR FILL SLOPES



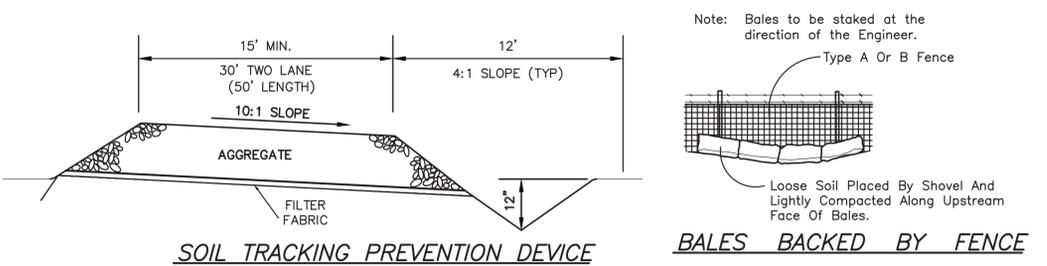
TREE PROTECTION BARRICADES



PROTECTION AROUND INLETS OR SIMILAR STRUCTURES



BARRIER FOR PAVED DITCH



SOIL TRACKING PREVENTION DEVICE

BALES BACKED BY FENCE

NO.	DATE	BY

JOSEPH ROLES AND ASSOC., INC.
CONSULTING ENGINEERS
7501 N.W. 4th STREET, SUITE 101
PLANTATION, FLORIDA 33317
PHONE: (954) 581-1945
CERTIFICATE OF AUTHORIZATION NO. 3948

PEGASUS PARK PAVILION
GULFSTREAM PARK
HALLANDALE BEACH, FLORIDA
POLLUTION PREVENTION DETAILS

DATE:	SCALE:	PROJECT NO.:	DESIGNED BY:	DRAWN BY:	CHECKED BY:	DATE:
04/2016	AS SHOWN	102-426-33	JWR	JK	JWR	04/16