



DRAINAGE

- 1- DRAINAGE PIPE SHALL BE ONE OF THE FOLLOWING:
 - A) FABRICATED POLYETHYLENE PIPE (P.E.) FABRICATED TO ASTM 405 AND AASHTO-M294. PIPE SHALL BE ADS 12" OR APPROVED EQUAL.
 - B) HELICAL CORRUGATED ALUMINUM (C.A.P.) FABRICATED TO ASTM B209 AND AASHTO-196. PIPE SHALL HAVE 2-2/3" X 1/2" CORRUGATIONS AND SHALL HAVE A MINIMUM THICKNESS OF:
 - 1) 24" AND SMALLER - 16 GAUGE
 - 2) OVER 24" - 14 GAUGE
 - C) COUPLED BONDING BANDS SHALL BE SPLIT BANDS OF THE SAME ALLOY AS THE PIPE. POLYURETHANE OR OTHER MANUFACTURED SUPPLIED SEALANT SHALL BE USED WITH THE COUPLINGS. THE BANDS SHALL BE A MINIMUM OF 12 INCHES WIDE.
 - D) FIBER REINFORCED CONCRETE PIPE (R.C.P.) SHALL MEET THE REQUIREMENTS OF ASTM C-70. THE PIPE JOINT SHALL BE OF THE BELL-AND-SPIGOT TYPE.
- 2- POINT DRAINAGE MANHOLE AND CATCH BASINS SHALL MEET THE REQUIREMENTS OF ASTM C-478 WITH A CONCRETE MINIMUM COMPRESSIVE STRENGTH OF 4000 P.S.I. AT 28 DAYS. SHOP DRAWINGS SHALL BE SUBMITTED FOR APPROVAL PRIOR TO MANUFACTURE.
- 3- ALL CONCRETE USED SHALL DEVELOP A MINIMUM OF 3000 P.S.I. COMPRESSIVE STRENGTH AT 28 DAYS.
- 4- THE CONTRACTOR SHALL PROVIDE THE ENGINEER "AS-BUILTS" OF THE PROJECT GIVING ALL HORIZONTAL DIMENSIONS AND VERTICAL INFORMATION BY A REGISTERED

ROBERT C SMITH

Digitally signed by
ROBERT C SMITH
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07708,
cn=ROBERT C
SMITH
Date: 2021.06.15
15:39:51 -04'00'



R-1	06-15-21	RCS	REVISED PER CITY REVIEW
PAVING AND DRAINAGE			
SECTIONS AND DETAILS			
ARCHITECTURAL ALLIANCE			
FORT LAUDERDALE, FLORIDA			
RIVA WAREHOUSE II			
JOHN B. SMITH ENGINEERS, INC.			
1457 N.E. 4th AVENUE			
FORT LAUDERDALE, FLORIDA 33304			
PHONE: (954) 763-4177			
CERTIFICATE OF AUTHORIZATION NO. 1668			
DESIGN	DRAWN	DATE	FILE
R. C. S.	RCS	APRIL, 2021	21-109
<i>Robert C Smith</i> Approved By: Robert C. Smith, P.E. Registered Professional No. 31177			SHEET C20F 4
State of Florida			