# **GENERAL NOTES**

## <u>GENERAL</u>

- 1. THE SYMBOLS AND ABBREVIATIONS ON THIS SHEET IS A COMPREHENSIVE STANDARD GUIDE FOR GENERAL USE ON ALL PROJECTS, THEREFORE NOT ALL THE SYMBOLS AND ABBREVIATIONS CONTAINED IN THIS LIST ARE NECESSARILY USED FOR THIS PARTICULAR PROJECT AND SHOULD BE USED FOR CLARIFICATION ONLY.
- 2. QUALITY OF CONSTRUCTION REQUIRED, PERFORMANCE LEVELS OF WORKMANSHIP MANUFACTURING AND INDUSTRY STANDARDS, STRENGTH AND PHYSICAL REQUIREMENTS OF MATERIALS, CONFORMANCE TO CODES AND REGULATIONS, GUARANTEES AND OTHER PROJECT REQUIREMENTS ARE SPECIFIED IN THE PROJECT MANUAL
- 3. IF MATERIALS, QUANTITIES, STRENGTHS OR SIZES INDICATED BY THE DRAWINGS OR SPECIFICATIONS ARE NOT IN AGREEMENT WITH THESE NOTES, THE BETTER QUALITY AND/OR GREATER QUANTITY, STRENGTH OR SIZE INDICATED, SPECIFIED, OR NOTED SHALL BE PROVIDED
- 4. PERFORM ALL WORK IN COORDINATION WITH ALL DRAWINGS AND INFORMATION RELATED TO STRUCTURAL WORK, ANY CHANGES TO THE EQUIPMENT REQUIRING CHANGES TO SYSTEMS SHALL BE REDESIGNED BY A PROFESSIONAL ENGINEER AT NO COST TO THE OWNER AND SUBMITTED TO THE ENGINEER. SUBMITTAL SHALL BE ACKNOWLEDGED IN WRITING BEFORE BEGINNING CONSTRUCTION.
- 5. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE TO ENSURE THE SAFETY OF THE STRUCTURE AND ITS COMPONENT PARTS DURING ERECTION. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF WHATEVER TEMPORARY BRACING, GUYS OR TIE-DOWNS MAY BE NECESSARY. SUCH MATERIAL SHALL BE REMOVED AND SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AFTER COMPLETION OF THE PROJECT
- 6. FACILITIES HAVE BEEN DESIGNED FOR DESIGN LOADS SHOWN OR SPECIFIED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FACILITIES SUBJECT TO CONSTRUCTION LOADS EXCEEDING THE DESIGN LOADS AND SHALL NOTIFY THE ENGINEER OF ANY SUCH ADDITIONAL LOADS.
- 7. CRITICAL NOTE: DURING CONSTRUCTION, STRUCTURE MAY BE BUOYANT WHEN EMPTY. IN THE EVENT THAT THE EXCAVATION BECOMES FLOODED OR THE SURROUNDING GROUND BECOMES SATURATED ALL NECESSARY PRECAUTIONS SHALL BE TAKEN TO PREVENT FLOTATION OF THE STRUCTURE.
- 8. ALL DIMENSIONS AND ELEVATIONS NOTED THUS (\*) ON STRUCTURES SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE VERIFIED BY THE CONTRACTOR IN THE FIELD OR WITH THE EQUIPMENT MANUFACTURER AND SHALL CONFORM TO THOSE SHOWN ON OTHER DRAWINGS.
- 9. ALL LOADS SHOWN ON THE DRAWINGS ARE SERVICE LOADS AND ARE TO BE CONSIDERED MINIMUM MEMBER DESIGN FORCES.
- 10. DESIGN LOADS: BASED ON THE 6TH EDITION, 2017 FLORIDA BUILDING CODE. 11. PUMP STATION AND SCREENING CHAMBER TOP SLAB LIVE LOAD: H20 VEHICLE
- 12. DESIGN FLOOD ELEVATION: 11 FEET PER FEMA MAP (ZONE AE-11).
- 13. ALL STRUCTURES TO RESIST BUOYANCY WITH VESSEL EMPTY AND GROUNDWATER AT  $\overset{{\scriptstyle{ullet}}}{\scriptstyle{ullet}}$ GROUND SURFACE. STRUCTURES ASSUMED FLOODED WHEN WATER SURFACE IS ABOVE
- A GROUND LEVEL. DED THIS DECLECT HAS BEEN DEEDADED BY ADDAMAN & ASSOCIATES 14. WALLS OF THE PUMP STATION AND THE SCREENINGS TO RESIST SOIL, HYDROSTATIC TOR SHARESSURE AND SURCHARGE PRESSURES AS OUTLINED IN THE GEOTECHNICAL REPORT 3UB BASE AND BASE FOR THE PUMPING STATION.

DUE TO THE DEPTHS OF THE PROPOSED STRUCTURES AT THIS SITE EXCAVATION SUPPORT MEASURES INCLUDING DEWATERING SHALL BE EMPLOYED. REFER TO THE PROJECT SPECIFICATIONS AND NOTE THAT THE EXCAVATION SUPPORT SYSTEM SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF FLORIDA.

ALSO, THE CONTRACTOR SHALL HIRE A GEOTECHNICAL ENGINEER TO OBSERVE, INSPECT, AND TEST THE PREPARATION OF THE SUB-BASE AND BASE. THE GENERAL REQUIREMENTS FOR THE SUB-BASE AND BASE PREPARATION ARE OUTLINED BELOW:

- 1. DEWATERING.
- STRIP SITE WHILE REMOVING ANY STRATUM 6 SOILS. 3. EXCAVATE TO FOUNDATION BEARING DEPTH. INSTALL BRACING/SHEETING AS NEEDED TO
- PREVENT SETTLEMENT OF THE EXISTING FOUNDATIONS. 4. PROOF ROLL THE EXPOSED SUBGRADE TO EVALUATE FOR ANY SOFT YIELDING
- SUBGRADE THAT WILL NEED TO BE REPLACED.
- 5. REMOVE ANY UNSUITABLE MATERIALS AND THEN BACKFILL WITH SUITABLE FILL TO THE SUBGRADE ELEVATION. ADDED BACKFILL AND SUBGRADE TO BE COMPACTED TO A MINIMUM DENSITY OF 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY. 6. BACKFILL AREA TO BOTTOM OF FOUNDATION ELEVATION IN LIFTS NOT EXCEEDING
- TWELVE (12) INCHES IN THICKNESS AND COMPACT TO A MINIMUM DENSITY OF 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY. BACKFILL SHALL NOT CONTAIN ANY UNSUITABLE MATERIALS.

### **FOUNDATIONS**

- NO CONCRETE SHALL BE PLACED IN WATER OR ON SATURATED GROUND.
- 2. IN GENERAL, EXTERIOR CONSTRUCTION SHALL BE CARRIED DOWN A MINIMUM OF 2'-0" BELOW FINISHED EXTERIOR GRADE.
- 3. ALL FOUNDATIONS SHALL BEAR ON 12" OF COMPACTED STRUCTURAL FILL ON UNDISTURBED SOIL WITH A BEARING CAPACITY OF NOT LESS THAN 2500 PSF.
- 4. ALL FINISHED EXCAVATIONS SHALL BE INSPECTED AND APPROVED BY THE ENGINEER OR HIS DESIGNEE BEFORE ANY CONCRETE IS PLACED.
- 5. ALL BACKFILL UNDER OR ADJACENT TO ANY PORTION OF THE STRUCTURES SHALL BE COMPACTED IN 12" LIFTS. SEE SPECIFICATIONS.
- 6. PROVIDE 6" STRUCTURAL FILL, COMPACTED TO 90% MODIFIED PROCTOR DENSITY, UNDER ALL SLABS ON GRADE AND WHERE INDICATED ON THE DRAWINGS OVER WELL COMPACTED STRUCTURAL FILL.

### <u>CONCRETE</u>

- 1. ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF THE SPECIFICATIONS, THE LATEST EDITION OF THE ACI BUILDING CODE (ACI 318) AND ACI 301, SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS, AND TO THE FLORIDA BUILDING CODE. IN CASE OF CONFLICT, THE MORE STRINGENT REQUIREMENTS SHALL GOVERN.
- 2. ALL CONCRETE SHALL BE READY-MIXED IN ACCORDANCE WITH ASTM C94 3. VERTICAL CONSTRUCTION JOINTS AND STOPS IN THE CONCRETE WORK SHALL BE MADE AT MIDSPAN. PROVIDE DOWELS AT CONSTRUCTION JOINTS OF AREA EQUAL TO 0.5% OF THE VERTICAL CONCRETE AREA. SEE SPECIFICATIONS. PROVIDE BEVELED KEYWAYS AT ALL CONSTRUCTION JOINTS.
- 4. AT LEAST 48 HOURS SHALL ELAPSE BEFORE DEPOSITING NEW CONCRETE AGAINST PREVIOUSLY PLACED CONCRETE.
- 5. All CONCRETE SHALL ATTAIN THE FOLLOWING MINIMUM COMPRESSIVE STRENGTHS AT 28 DAYS AGE: FOOTINGS AND INTERIOR CONCRETE SLABS - 4,000 PSI., CONCRETE EXPOSED TO THE ELEMENTS (EXTERIOR SLABS) CONCRETE EXPOSED TO STORMWATER - 4,000 PSI. REFER TO SPECIFICATIONS AND ACI 301 FOR DESIGN STRENGTHS REQUIRED FOR SELECTING MIX PROPORTIONS.
- 6. ALL SLABS ON GRADE SHALL BE PLACED IN ALTERNATE PANELS NOT EXCEEDING 900 S.F.

### **REINFORCING**

- MANUAL, EXCEPT AS OTHERWISE SPECIFIED.
- SHALL BE STAGGERED AND SHALL BE 1-1/2 FULL MESH MIN.
- CHAIRS #5. NOTED
- SHOWN OTHERWISE:
- A. FOOTING BOTTOMS...3 INCHES.
- C. SLABS EXPOSED TO THE WEATHER...1 INCH. D. INTERIOR SLABS...3/4 INCH.
- REINFORCED. BEFORE CONCRETE IS PLACED.

MISCELLANEOUS

- 1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AT THE JOB SITE.

- DEPRESSIONS AND OTHER PROJECT REQUIREMENTS.
- 5. DO NOT SCALE FROM DRAWINGS.

## LIST OF ABBREVIATIONS

CONT CONTINUOUS SOG	& @ AL ARCH B BM CL CJ CLR COL COL	AND AT ALUMINUM ARCHITECTURAL BOTTOM BEAM CENTER LINE CONTROL JOINT/ CONSTRUCTION JOINT CLEAR COLUMN CONCRETE	DIA/Ø DWG EF EL EMBED ETC. EX EXP EXT EW FNDN FT
	COL CONC CONT	COLUMN CONCRETE CONTINUOUS	FTG SOG

## FLOOD DESIGN CRITERIA

- THIS PROJECT IS LOCATED WITHIN FIRM ZONE: AE11
- EL. 9.25') 3. BREAKING WAVE HEIGHT PER ASCE 7: 2.54 FEET.

FLOOD DESIGN CLASS: 4 PER ASCE 24 ELEVATION) + 2 FEET = 11+2 FEET= 13' PER ASCE 24.

## LATERAL EARTH PRESSURE DESIGN DATA UNIT WEIGHT

ABOVE GROUNDWATER:	130
BELOW GROUNDWATER:	70 P
AT REST COEFFICIENT (KO):	0.50
ACTIVE COEFFICIENT (KA):	0.33
PASSIVE COEFFICIENT (KP):	3.0

SURCHARGE: 200 PSF

								Co
			·					
				ISSUED 75% DESIGN DRAWINGS TO CITY (PRELIM REVIEW)	SAH	RC	21.05.17	500
				ISSUED FINAL DESIGN	SAH	RC	20.02.14	Jou
				ISSUED 60% DESIGN DRAWINGS	KME	APPROVED	18.03.14	Nap
Revision	Ву	Appd	YYYY.MM.DD	Issued	Ву	Appd	YY.MM.DD	~~~~~





ORIGINAL SHEET - ANSI D



1. SEE DRAWING S-001 FOR GENERAL NOTES AND TYPICAL DETAILS. 2. FOUNDATION FOR ANTENNA SHALL BE 2'-0" SQ. (MIN.) PIER EXTENDING 4'-0" MIN. BELOW GRADE. REINFORCE W/ 8-#5's VERTICAL (3 BARS EACH SIDE) AND #3@8 TIES. COORDINATE CLOSELY WITH ANTENNA SHOP DRAWINGS.

SCA	LE: 1/2"	= 1'-0"	
0'	1'	2'	4'
SCA	LE: 1/4"	= 1'-0"	
0'	2'	4'	
Ū	-	•	Ŭ

of Naples	Title PUMP STATI	— ON OVERALL PLAN	
	Project No. 177310606	Scale As indicated	
man in a state of the	Revision	Sheet	Drawing No.
3. MARIELAN PART & CULL & STREET MADE			S-101



		SCA 	LE: 1/4" = 1'-( 2' 4'	)"  8'	
				0 C	
ples	Title PUMP STATI	— On Plan Vie	EWS		
	Project No. 177310606 Revision	Scale As indic	cated	Drawing No	 D.





ORIGINAL SHEET - ANSI D

Issued

![](_page_4_Figure_4.jpeg)

![](_page_5_Figure_0.jpeg)

								Consultan
								Q
3/31/2022 1:36:05 PM	Revision	  Appd	  YYYY.MM.DD	ISSUED 75% DESIGN DRAWINGS TO CITY (PRELIM REVIEW) ISSUED FINAL DESIGN ISSUED 60% DESIGN DRAWINGS ISSUED	SAH SAH KME By	RC RC APPROVED Appd	21.05.17 20.02.14 18.03.14 YY.MM.DD	5801 Pelican Naples, FL 3 www.stantec

ORIGINAL SHEET - ANSI D

![](_page_5_Picture_4.jpeg)

![](_page_5_Picture_5.jpeg)

		SCALE: 1/4" = 1'-	-0" ' 8'
of Naples	Title GENERATO	— R PAD SECTIONS	
	Project No. 177310606	Scale 1/4'' = 1'-0''	
AN ANTAL ANTAL AND	Revision	Sheet	Drawing No. S-202

![](_page_6_Figure_0.jpeg)

![](_page_6_Picture_1.jpeg)

![](_page_6_Figure_4.jpeg)

Client/Project

City of Naples 735 8th St S NAPLES, FL. & Water Quality

![](_page_6_Picture_8.jpeg)

![](_page_7_Figure_0.jpeg)

![](_page_8_Figure_0.jpeg)

![](_page_9_Figure_0.jpeg)