

Neptune Beach

Senior Community Center

FOUNDATION

34 - 16x16x12 TYPE "A"

4 - 16x24x12 TYPE "B"

26 - 16x20x12 TYPE "C"

3 - 24x24x12 TYPE "D"

CONCRETE MASONRY UNITS

130 - 8x8x12 CMU (5 EA PIER)

15 - 8x12x12 CMU (5 EA PIER)

REBAR

240 - 10" #5

28 - 18" #5

58 - 48" #5 L-BAR

CONCRETE

5.177 - CUBIC YARDS

JOISTS AND POSTS

10 - 2x12x20

12 - 2x12x18

50 - 2x12x16

18 - 2x12x10

7 - 2x12x8

66 - 2x10x14

2 - 2x10x12

20 - 2x10x10

14 - 2x10x8

68 - 6x6x10

68 - ABU66Z (10)

68 - WA62600 5/8x6" (20)

244 - LUS210Z (50)

24 - LUS210-2Z (25)

BEAMS AND ROOF

4 - 2x12x16
24 - 2x12x10
17 - 2x12x8
2 - 2x12x12
90 - 2x12x18
24 - 2x10x16
6 - 2x10x24
2 - 2x10x20
3 - 2x10x10
4 - 2x10x8
2 - 2x6x24
2 - 2x8x16
2 - 2x8x12
2 - 2x8x10
1 - 2x8x8
60 - 2x10 SLOPE HANGER
24 - 2x10 SLOPE SKEW RIGHT
24 - 2x10 SLOPE SKEW LEFT
2 - SIMPSON HUC210 (25)
200 - SIMPSON H2.5A (100)
100 - 7/16x4x8 OSB
1000 - PSCA 7/16 (250)
16 - HIGH TEMP ICE AND WATER
355 - 5/4x6x16 STD TR DECKING

STAIRS AND RAILINGS

385'+/- WOOD RAILING
10 - 2x12 STRINGERS

ROOFING

26 SQUARES - 24" STANDING SEAM METAL ROOFING
240'+/- METAL DRIP
140'+/- METAL FLASHING

BUILDING FINISH

40 Sq Ft +/- HORIZ. HARDIE BOARD SIDING
24 - COLUMN TOP & BOTTOM TRIM
3 - DECORATIVE VINYL SHUTTER SETS
342 Sq Ft +/- VINYL LATTICE

NOTE:

ARCHITECT'S MATERIAL LIST SHALL BE USED AS REFERENCE ONLY.
CONTRACTOR/BUILDER SHALL CALCULATE AND SUBMIT
THEIR OWN MATERIALS LIST FOR BIDDING AND CONSTRUCTION.
VERIFY ALL DIMENSIONS AND CONDITIONS.

JACKSON GEOTECHNICAL ENGINEERING

Consulting Geotechnical Engineers

**REPORT OF GEOTECHNICAL EXPLORATION
NEPTUNE BEACH SENIOR CENTER DRAINAGE IMPROVEMENTS
NEPTUNE BEACH, FLORIDA
JGE PROJECT NO. 22-246.1**

Prepared for:

Marquis Latimer & Halback
34 Cordova Street
St. Augustine, Florida 32084

Prepared by:

Jackson Geotechnical Engineering
164 Plaza Del Rio Drive
St. Augustine, Florida 32084
Phone: 904-252-2292

April 8, 2022

JACKSON GEOTECHNICAL ENGINEERING

Consulting Geotechnical Engineers

April 8, 2022

Mr. Jeremy Marquis
Marquis Latimer & Halback
34 Cordova Street
St. Augustine, Florida 32084

Report of Geotechnical Exploration and Engineering Services
Neptune Beach Senior Center Drainage Improvements
Neptune Beach, Florida
JGE Project No. 22-246.1

Dear Mr. Marquis:

As requested, Jackson Geotechnical Engineering has completed a geotechnical exploration for the subject project. The exploration was performed to evaluate the general subsurface conditions at the location of the proposed stormwater pond, and to provide soil and groundwater parameters to facilitate retention pond design.

We appreciate this opportunity to be of service as your geotechnical consultant on this phase of the project. Please contact us if you have any questions, or if we may be of any further service.

Sincerely:
Jackson Geotechnical Engineering, LLC.

Jeff S. Jackson, P.E.
Licensed, Florida 51979

cc: Mr. Jeremy Calloway, P.E.
Maverick Engineering

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1.0 PROJECT INFORMATION

1.1 Site Location and Description

The project is located adjacent to the west side of Strickland Road, approximately 225 feet north of Forest Avenue, in Neptune Beach, Florida. The site is cleared, with vegetation consisting of grass. Based on visual observation, the subject area is relatively level.

1.2 Project Description

Project information was provided to us during correspondence with Mr. Jeremy Calloway, P.E. of Maverick Engineering. We were provided with an excerpt from a site plan that shows the layout of the proposed pond excavation, property boundaries, and adjacent roadways.

We understand the proposed project consists of excavating a retention pond at the site. The pond will be utilized for the collection and treatment of stormwater. It is expected the pond will be designed in accordance with dry retention criteria.

2.0 FIELD EXPLORATION

In order to explore the subsurface conditions within the area of the proposed stormwater pond, one auger boring (A-1) was performed to a depth of 6 feet below the ground surface. In addition, two permeability tests were performed on relatively undisturbed soil samples obtained from the location of the auger boring. The auger boring was located by measurement from existing site features. The location of the field testing, and the subsurface conditions encountered at the boring location, are presented in Appendix A on the Boring Location Plan and Subsurface Profiles, respectively.

3.0 LABORATORY TESTING

3.1 Index Testing

Soil samples recovered during the field exploration were visually classified in accordance with ASTM D 2488. The results of the classification testing are presented on the Subsurface Profile in Appendix A.

3.2 Permeability Testing

A horizontal and vertical permeability (hydraulic conductivity) test were conducted on the undisturbed soil samples to estimate the coefficient of horizontal permeability of the appropriate soil layers. The coefficient of permeability is a measure of a soil's ability to transmit water under hydraulic loading conditions. It typically is a required input parameter for groundwater modeling, such as dry pond recoveries, background seepage, etc. The laboratory permeability test is typically conducted by placing the undisturbed soil sample in a permeameter, and while in the permeameter, the soil sample is subjected to differential hydraulic loading over a period of time. The volume of water that is transmitted through the soil sample is recorded, and along with the known hydraulic

loading conditions, Darcy's law is utilized to calculate the coefficient of permeability. The coefficient of permeability is shown on the Subsurface Profile at the depth of which the soil samples were obtained.

4.0 GENERAL SUBSURFACE CONDITIONS

4.1 General Soil Profile

The boring location and general subsurface conditions that were encountered are presented on the Boring Location Plan and Subsurface Profile. When reviewing these records, it should be understood the soil conditions may change significantly at adjacent, unexplored locations. The following discussion summarizes the soil conditions encountered.

In general, the boring encountered fine sand (SP) throughout the 6-foot exploration depth. Three inches of topsoil was present at the boring location.

4.2 Groundwater Level

The groundwater level was measured at the boring location at a depth of 4.8 feet below existing grade. The depth of the groundwater level encountered at the boring location is presented on the Subsurface Profile.

The groundwater table will fluctuate depending on seasonal variations, adjacent construction, surface water runoff, etc. Our estimate of the normal seasonal high groundwater level at the boring location is presented on the Subsurface Profile in Appendix A. Our estimate is based on the results of the soil boring, review of available published literature, and information provided for this study. Should rainfall intensity exceed normal quantities, or should other variables that affect the seasonal high groundwater level be altered, the groundwater profile at the site could change significantly.

5.0 RETENTION POND RECOMMENDATIONS

5.1 General

The drainage system includes a dry retention pond. Dry ponds retain the necessary minimum amount of stormwater runoff (treatment volume) during the storm event. The volume retained is treated by infiltration into the ground. Infiltration into the ground is primarily affected by permeability of the soil, vertical height of stormwater stored in the pond (hydraulic loading), depth of the aquifer, soil porosity, and vertical distance between the pond bottom and the water table.

5.2 Retention Pond Modeling

The table below summarizes our recommendations for pond recovery modeling. A factor of safety of 2.0 should be utilized in the recovery analysis.

Location	Horizontal Permeability (ft/day)	Vertical Permeability (ft/day)	Effective Porosity	Depth to Bottom of Aquifer ^(1,2) (feet)	Estimated Depth of Seasonal High Groundwater Level ⁽¹⁾ (feet)
A-1	30.0	26.3	25%	6	2.7

(1) Depth references ground surface at the time of the subsurface exploration.

(2) Aquifer depth limited to bottom of boring, in accordance with SJRWMD guidelines.

Note: Permeability values represent existing, in-situ soils. If fill is utilized, it should meet the specifications of the drainage engineer.

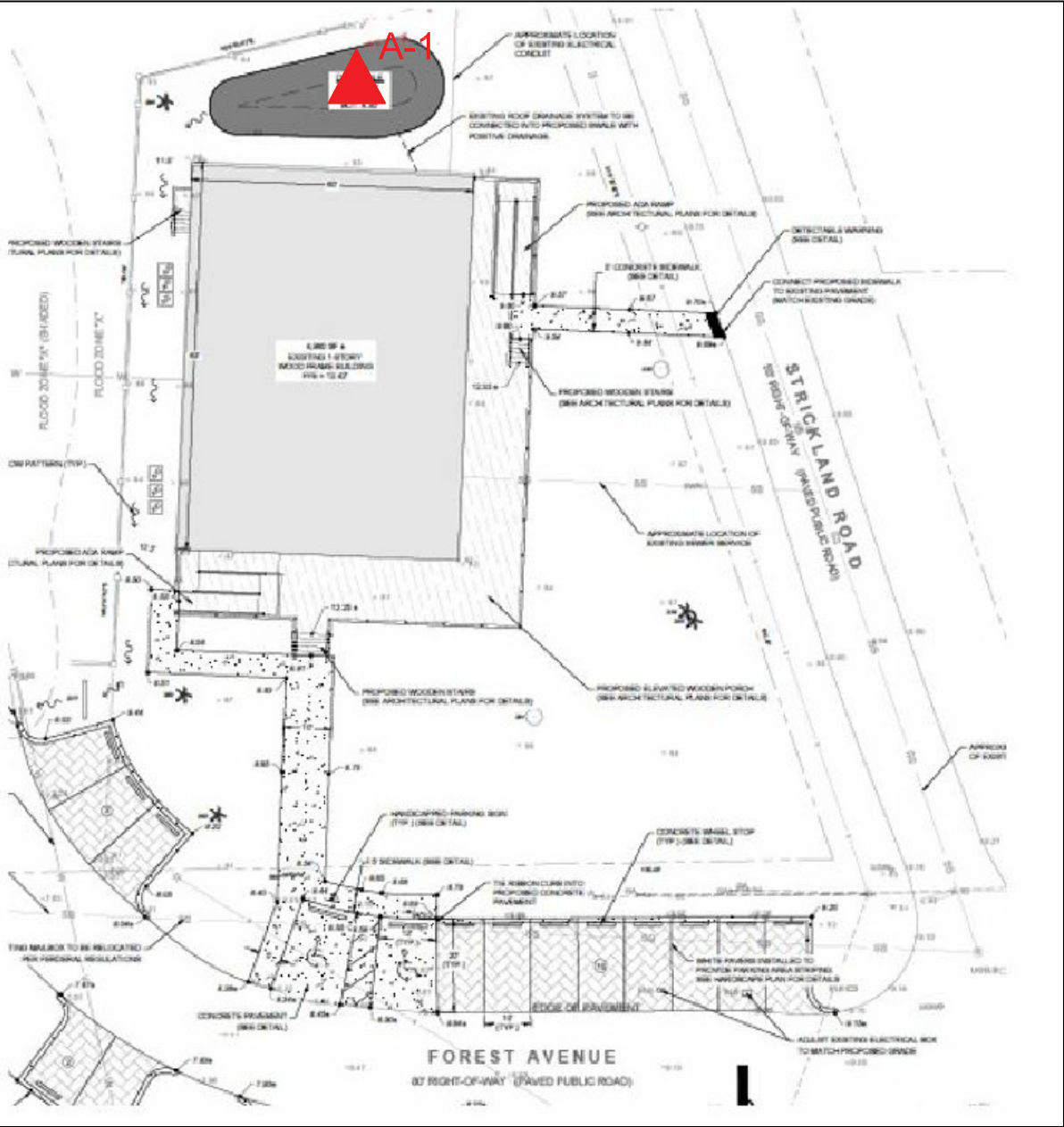
6.0 LIMITATIONS

We have conducted the geotechnical engineering in accordance with principles and practices normally accepted in the geotechnical engineering profession. Our analysis and recommendations are dependent on the information provided to us. Jackson Geotechnical Engineering is not responsible for independent conclusions or interpretations based on the information presented in this report.

APPENDIX A

BORING LOCATION PLAN

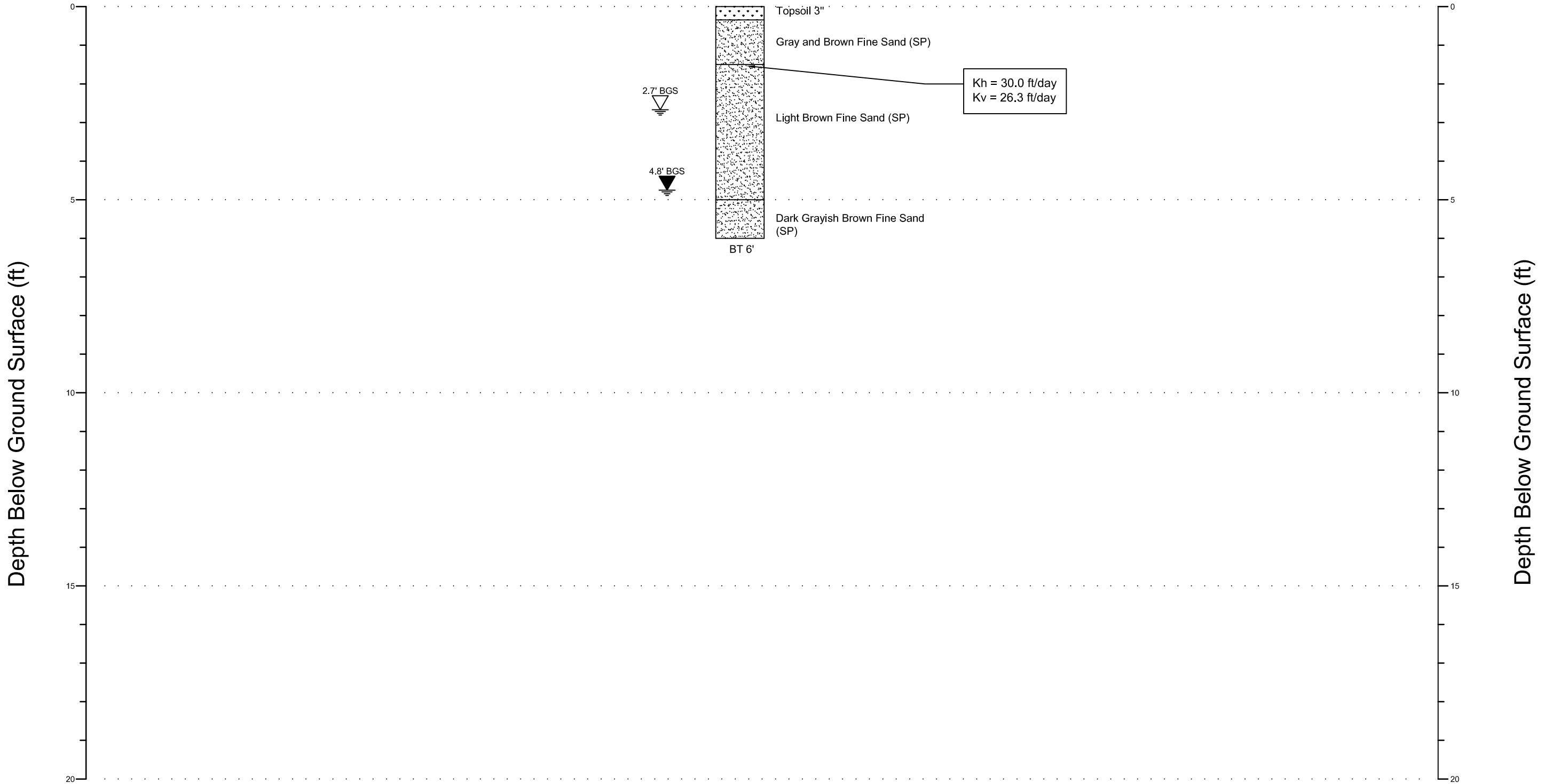
SUBSURFACE PROFILE



 Auger Boring Location

Jackson Geotechnical Engineering	
Boring Location Plan	
Neptune Beach Senior Center	
April 4, 2022	Drawn by: MJ
Project No. 22-246	Figure 1

A-1



 Fine Sand (SP)

 Topsoil



Groundwater Table
Measured Below Ground Surface



Seasonal High Groundwater Table Estimated
Below Ground Surface at Time of Exploration

Kh

Kv

Coefficient of Horizontal Permeability

Coefficient of Vertical Permeability

BT

BGS

Boring Terminated

Below Ground Surface

Jackson Geotechnical Engineering	
Subsurface Profiles	
Neptune Beach Senior Center	
April 4, 2022	Drawn by: MJ
Project No. 22-246	Figure 2

APPENDIX B

KEY TO SOIL CLASSIFICATION

FIELD AND LABORATORY TEST PROCEDURES

JACKSON GEOTECHNICAL ENGINEERING

Consulting Geotechnical Engineers

KEY TO SOIL CLASSIFICATION

CORRELATION OF PENETRATION WITH RELATIVE DENSITY & CONSISTENCY

SANDS AND GRAVEL	
BLOW COUNT	RELATIVE DENSITY
0-3	VERY LOOSE
4-10	LOOSE
11-30	MEDIUM DENSE
31-50	DENSE
OVER 50	VERY DENSE

SILTS AND CLAYS	
BLOW COUNT	CONSISTENCY
0-2	VERY SOFT
3-4	SOFT
5-8	FIRM
16-30	VERY STIFF
31-50	HARD
OVER 50	VERY HARD

PARTICLE SIZE IDENTIFICATION (UNIFIED CLASSIFICATION SYSTEM)

CATEGORY	DIMENSIONS
Boulders	Diameter exceeds 12 inches
Cobbles	3 to 12 inches
Gravel	Coarse – 0.75 to 3 inches in diameter Fine – 4.76 mm to 0.75 inch diameter
Sand	Coarse – 2.0 mm to 4.76 mm diameter Medium – 0.42 mm to 2.0 mm diameter Fine – 0.074 mm to 0.42 mm diameter
Silt and Clay	Less than 0.074 mm (invisible to the naked eye)

MODIFIERS

These modifiers provide our estimate of the amount of minor constituent
(sand, silt, or clay size particles) in the soil sample

PERCENTAGE OF MINOR CONSTITUENT	MODIFIERS
0% to 5%	No Modifier
5 % to 12 %	With Silt, With Clay
12% to 30%	Silty, Clayey, Sandy
30% to 50%	Very Silty, Very Clayey, Very Sandy

APPROXIMATE CONTENT OF OTHER COMPONENTS (SHELL, GRAVEL, ETC.)	MODIFIERS	APPROXIMATE CONTENT OF ORGANIC COMPONENTS
0% to 5%	TRACE	1 to 2%
5% to 12%	FEW	2% to 4%
12% to 30%	SOME	4% to 8%
30% to 50%	MANY	>8%

FIELD AND LABORATORY TEST PROCEDURES

Auger Borings

The auger borings were performed using a continuous flight auger attached to a rotary drill rig or manually using a post-hole auger; and thus in general accordance with ASTM D 1452-80, "Soil Investigation and Sampling by Auger Borings". Representative samples of the soils brought to the ground surface by the augering process were placed in watertight containers and sealed. After completing the drilling operations, the samples for each boring were transported to the laboratory where the Geotechnical Engineer examined them in order to verify the driller's field classifications. The samples will be kept in our laboratory for a period of two months after submittal of formal written report, unless otherwise directed by the Client.

Soil Classification

Soil samples obtained from the performance of the borings were transported to our laboratory for observation and review. An engineer, registered in the State of Florida and familiar with local geological conditions, conducted the review and classified the soils in accordance with ASTM 2488. The results of the soil classification are presented on the boring records.

Constant Head Permeability Test

The coefficient of permeability for the laminar flow of water through granular soils was determined in general accordance with the latest revision of ASTM D 2434. The constant head permeability test is a measure of the quantity of water that flows through a sample contained in a cylinder of known height and diameter in a measured time while maintaining a constant head of water on the sample. The coefficient of permeability is determined by application of the Darcy's Law shown below:

$$k = \frac{Q L}{h A t}$$

k = Coefficient of permeability

Q = Quantity of water discharge

L = Length of specimen

h = Constant head of water

A = Cross-sectional area of specimen

t = Total time of discharge

Undisturbed Sampling

Relatively undisturbed samples were obtained in general accordance with the latest revision of ASTM A 1587, "Thin-Walled Tube Sampling of Soils". Manual methods were used to advance the 3-inch O.D. – 16 gauge stainless steel sampler tubes into the soils at the selected depths. After retrieving the samples, the ends were capped and then transported to our laboratory.

BUILDING FOOTAGE INFORMATION

NEW DECK _____ 1,614 Sq. Ft.
NEW H.C. RAMPS _____ 414 Sq. Ft.

TYPE OF CONSTRUCTION

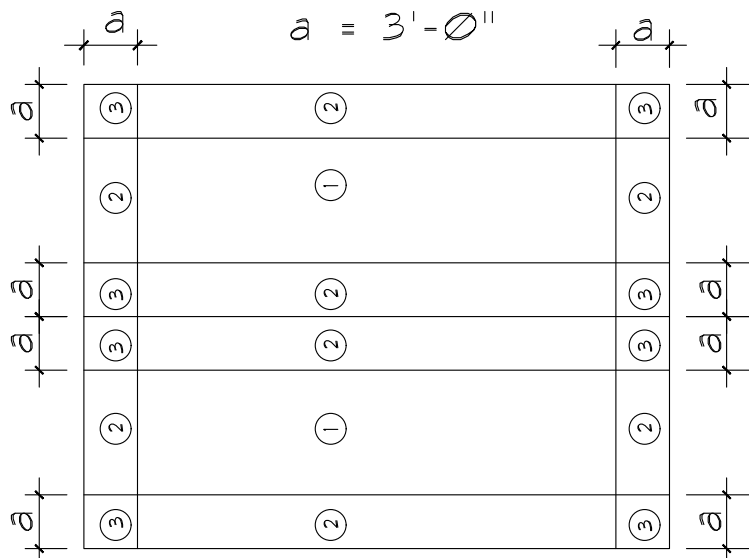
TYPE VB
PROJECT IS LOCATED EAST OF I-95 WIND-BORNE DEBRIS PROTECTION IS REQUIRED

WIND ZONE INFORMATION

THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH, & MEETS THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2020 1th EDITION

1. BASIC WIND SPEED (3 SECOND GUSTS) _____ 130 M.P.H.
2. WIND IMPORTANCE FACTOR _____ 1.0
3. WIND EXPOSURE CATEGORY _____ B
4. INTERNAL PRESSURE COEFFICIENT _____ +.18 OR -.18
5. COMPONENT & CLADDING WIND LOADS _____ Lbs./Sq.Ft.

HEIGHT AND EXPOSURE ADJUSTMENT COEFFICIENTS = 1.00									
EFFECTIVE WIND AREA Ft. Sq.									
	10		20		50		100		
ROOF									
1	10.5	-25.9	10.0	-25.2	10.0	-24.4	10.0	-23.7	
243	10.5	-43.5	10.0	-38.8	10.0	-32.7	10.0	-28.1	
WALL									
4	25.9	-28.1	24.7	-26.9	23.2	-25.4	22.0	-24.2	
5	25.9	-34.7	24.7	-32.4	23.2	-29.3	22.0	-26.9	
ROOF OVERHANG			10		20		50		100
			-37.3		-36.7		-35.2		-35.1
			-61.5		-48.3		-30.8		-17.6

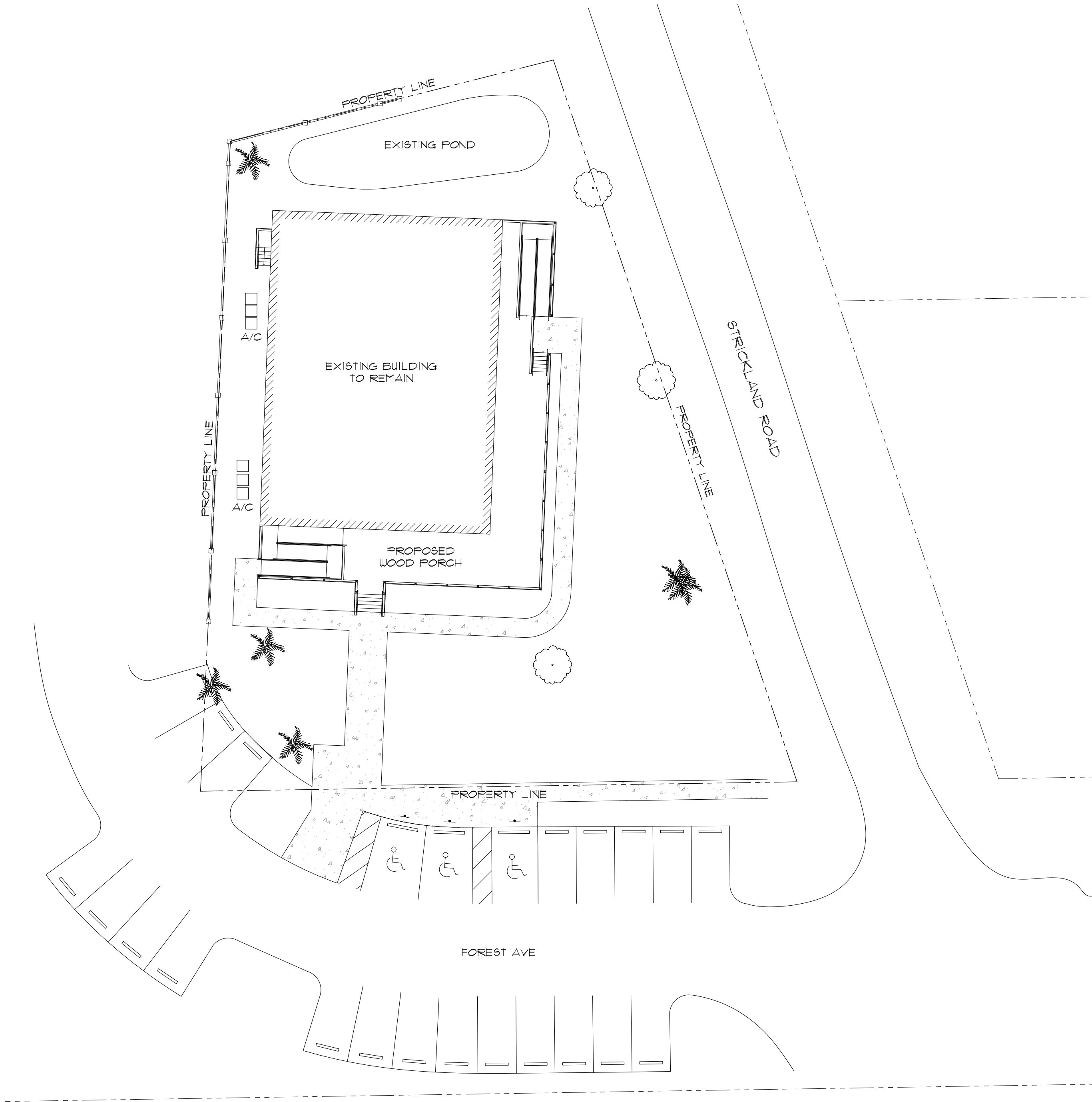


NOTES:

1. FOR EFFECTIVE AREAS BETWEEN THOSE GIVEN ABOVE THE LOAD MAY BE INTERPOLATED BY THE DESIGNER, OTHERWISE USE THE LOAD ASSOCIATED WITH THE LOWER EFFECTIVE AREA.
2. SEE FIGURES FOR LOCATION OF ZONES.
3. PLUS AND MINUS SIGNS SIGNIFY PRESSURE ACTING TOWARD AND AWAY FROM THE BUILDING SURFACES.

CODE ANALYSIS

THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH, & MEETS THE REQUIREMENTS OF:
BUILDING - FLORIDA BUILDING CODE, BUILDING 2020 1th EDITION
PLUMBING - FLORIDA BUILDING CODE, PLUMBING 2020 1th EDITION
MECHANICAL - FLORIDA BUILDING CODE, MECHANICAL 2020 1th EDITION
LIFE SAFETY - NATIONAL FIRE PREVENTION ASSOC. CODE, LATEST EDITION
FIRE CODE - FLORIDA FIRE PREVENTION CODE 1th EDITION
HANDI-CAP CODE - FLORIDA BUILDING CODE, CHAPTER 11 - ACCESSIBILITY, 2020 1th EDITION
ACCESSIBILITY CODE - FLORIDA BUILDING CODE, CHAPTER 11 - ACCESSIBILITY, 2020 1th EDITION
ENERGY CODE - FLORIDA BUILDING CODE, ENERGY CONSERVATION, 2020 1th EDITION
NATIONAL ELECTRIC CODE CURRENT EDITION



Site Plan
1"=20'-0"

Neptune Beach
Senior Community Center
Neptune Beach, Florida

INDEX OF DRAWINGS

- A1 CODE INFORMATION AND SHEET INDEX
A2 FLOOR PLAN
A3 BUILDING ELEVATIONS
A4 FOUNDATION PLAN
A5 FLOOR FRAMING PLAN
A6 ROOF FRAMING PLAN
A7 BUILDING SECTIONS AND DETAILS
A8 ELECTRICAL PLAN

STRUCTURAL NOTES

1. DESIGN LOADS:
A. ROOF LIVE LOADS _____ 16 p.s.f.
B. FLOOR LIVE LOADS _____ 40 p.s.f.
C. WIND LOADS _____ 130 m.p.h.
(FL. BLDG. CODE 2020)
2. MATERIAL
A. CONCRETE: DESIGN AND CONSTRUCTED PER A.C.I. 318-83
- | ITEM | COMPRESSIVE STRENGTH @ 28 DAYS |
|---------------------------|--------------------------------|
| SLAB | 2500 P.S.I. |
| CMU, FILLED CELLS & BEAMS | 2500 P.S.I. |
- B. REINFORCING STEEL: CONFORM TO ASTM A-615 GAGE 60
C. STRUCTURAL STEEL: DESIGN PER CURRENT ADDITION OF A.I.S.C.
1. SHAPES AND PLATES CONFORM TO ASTM A-36
2. WELDING CONFORM TO "AWS D11, STRUCTURAL WELDING CODE"
3. ANCHOR BOLTS AND STEEL TO WOOD SHALL CONFORM TO ASTM A-307
4. WELDED CONNECTIONS NOT SHOWN ON DRAWING SHALL HAVE ALL CONTACTING STEEL SURFACES CONTINUOUS WELDED WITH SUFFICIENT WELD TO FULLY DEVELOP THE THINNER MATERIAL.
D. FRAMING LUMBER: SOUTHERN PINE PER N.F.P.A., NATIONAL DESIGN SPECS. FOR WOOD CONSTRUCTION.
1. SAWN LUMBER 2x4 THRU 2x12 SHALL BE SOUTHERN PINE NO. 2 @ 19% M.C.
2. INTERIOR WALL STUDS SHALL BE SPRUCE-PINE-FIR NO.2
3. LVL BEAMS SHALL BE SOUTHERN PINE Fo=2400 P.S.I.
4. SAWN LUMBER 4x4 AND LARGER SHALL BE SOUTHERN PINE NO. 1 @ 19% M.C.
E. WOOD FLOOR & ROOF TRUSSES: DESIGN BY THE MANUFACTURER TO SUPPORT DEAD, WIND AND LIVE LOADS.
1. MANUFACTURE SHALL SUBMIT ERECTION DRAWINGS FOR REVIEW BEFORE FABRICATING TRUSSES.
2. ERECTION DRAWINGS SHALL SHOW ALL LATERAL AND DIAGONAL BRACING AS REQUIRED IN THE TRUSS SYSTEM.
3. TRUSS TO TRUSS CONNECTIONS SHALL BE DESIGNED BY THE MANUFACTURER.
F. PLYWOOD ROOF AND WALL SHEATHING:
CONFORM TO THE AMERICAN PLYWOOD ASSOC. STANDARDS AND SHALL BE AP C-D INT. WITH EXTERIOR GLUE (CDX) MIN.
G. CONCRETE MASONRY UNITS: CONFORM TO ASTM C-90.
MORTAR SHALL BE TYPE M OR S.
H. WOOD FRAMING ANCHORS AND HURRICANE TIE CLIPS SHALL BE "GO-BOLTS" OR EQUAL.
4. CONCRETE MASONRY UNITS:
A. ALL CMU SHALL HAVE #5 BAR VERTICAL WITH CELL FILLED WITH CONCRETE AS SHOWN ON DRAWINGS.
B. ALL CMU SHALL HAVE HORIZONTAL JOINT REINFORCING SPACED 16" O.C. VERTICAL. REINFORCING SHALL BE FABRICATED FROM 9 GAUGE GALVANIZED WIRE.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMP. BRACING UNTIL THE ENTIRE STRUCTURE IS PLUMB AND SECURED IN PLACE.
6. SHEATHING NAILING:
A. ROOF SHEATHING SHALL BE NAILED AS FOLLOWS:
8d RING SHANK NAILS
8d NAILS @ 6" O.C. AT PANEL EDGES.
8d NAILS @ 9" O.C. AT ALL INTERMEDIATE SUPPORTS.
8d NAILS @ 4" O.C. AT ALL SUPPORTS WITHIN 4'-0" OF EDGES.
B. PORCH CEILING OR SUB CEILING WITH RING SHANK NAILS:
8d NAILS @ 4" O.C. AT PANEL EDGES.
8d NAILS @ 8" O.C. AT ALL INTERMEDIATE SUPPORTS.
C. ALL EXTERIOR WALLS BETWEEN OPENINGS AND AT CORNERS SHALL BE SHEAR WALL SEGMENTS.
PLY-WOOD NAILING TO BE: 8d NAILS @ 6" O.C. EACH SHEAR WALL SEGMENT SHOULD HAVE 1/2 Ø THREADED ROD WITHIN 8" OF SHEAR WALL.
7. CMU WALL OPENING HEADS, JAMBS, AND WINDOW SILLS SHALL BE 2x6 MIN. P.T. WITH 1/4" DIA. x 3 1/4" LONG "TAPCONS" @ 18" O.C.
8. ALL EXTERIOR WINDOWS AND DOORS SHALL MEET 130 M.P.H. WIND SPEED. WIND BORNE DEBRIS PROTECTION REQUIRED: IMPACT RESISTANT WINDOWS OR SHUTTERS BY ARCHITECT OR CONTRACTOR.

LES THOMAS
ARCHITECT
32 CORDOVA ST., ST. AUGUSTINE, FLORIDA 824-9508

NEW PORCH
NEPTUNE BEACH COMMUNITY CENTER
NEPTUNE BEACH, FLORIDA

Date: 4.29.22

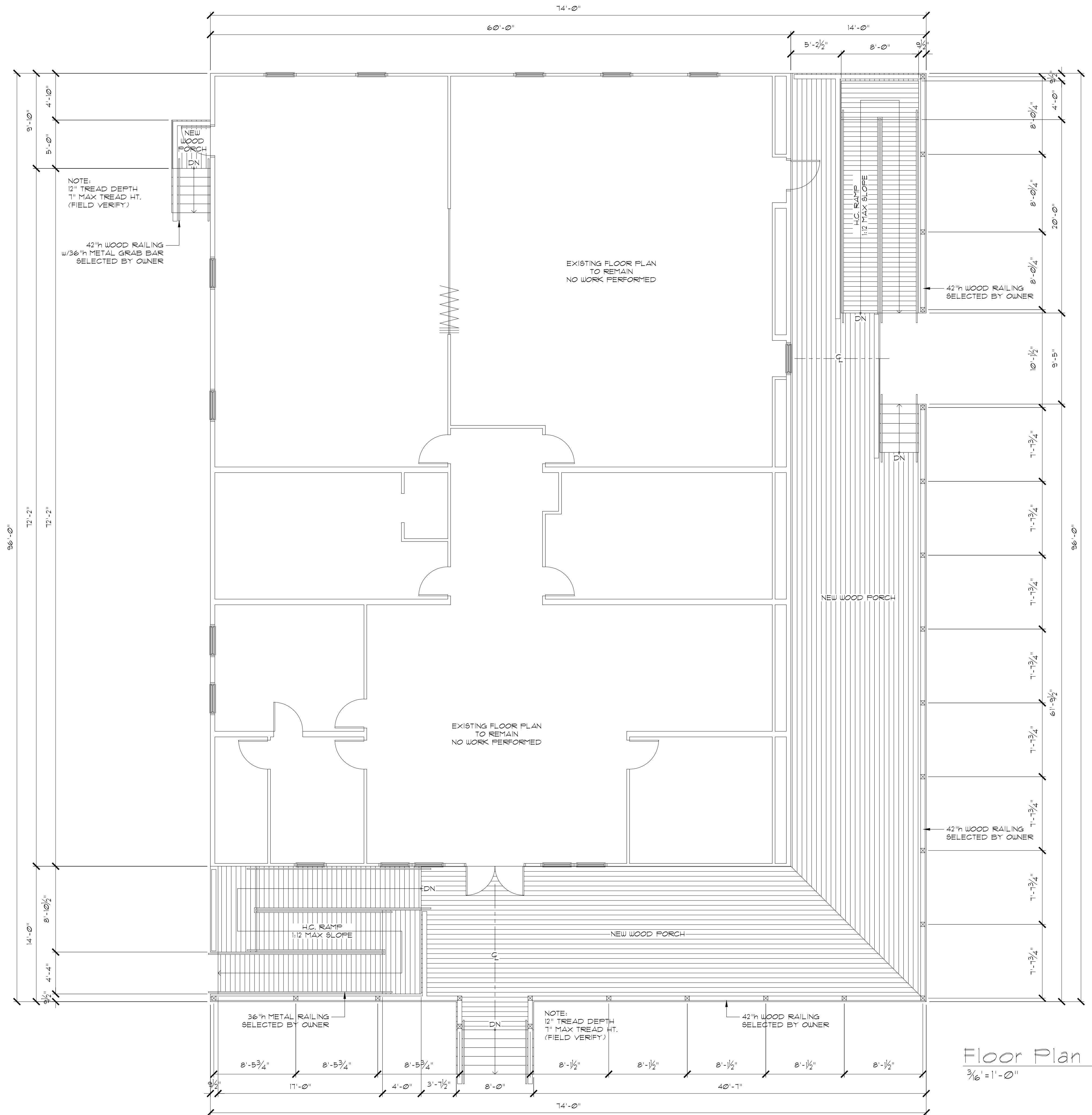
Scale: AS NOTED

Drawn: MURPHY

File: NEPTUNE

SHEET

A1



Floor Plan
3/16" = 1'-0"

NOTE:
CONTRACTOR/BUILDER
SHALL FIELD VERIFY
ALL DIMENSIONS AND CONDITIONS
PRIOR TO CONSTRUCTION.

NEW PORCH
NEPTUNE BEACH COMMUNITY CENTER
NEPTUNE BEACH, FLORIDA

Date: 4.29.22
Scale: AS NOTED
Drawn: MURPHY
File: NEPTUNE



Front Elevation
1/4" = 1'-0" North



Right Elevation
1/4" = 1'-0" East

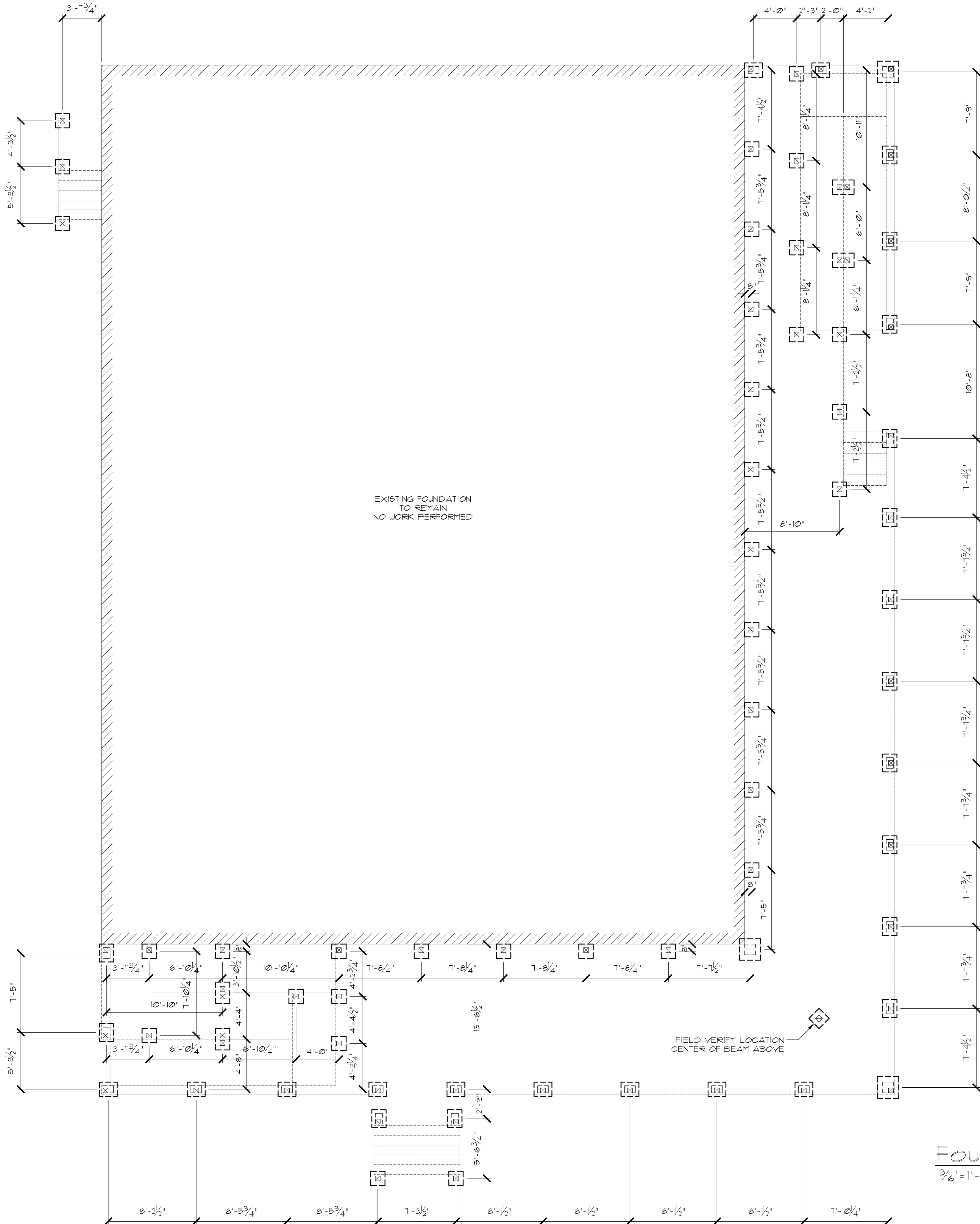
NOTE:
ELEVATION DRAWINGS ARE INTENDED
FOR DESIGN PURPOSES ONLY.
CONTRACTOR/BUILDER
SHALL FIELD VERIFY
ALL DIMENSIONS AND CONDITIONS
PRIOR TO CONSTRUCTION.

LES THOMAS
ARCHITECT
32 CORDOVA ST., ST. AUGUSTINE, FLORIDA 824-9508

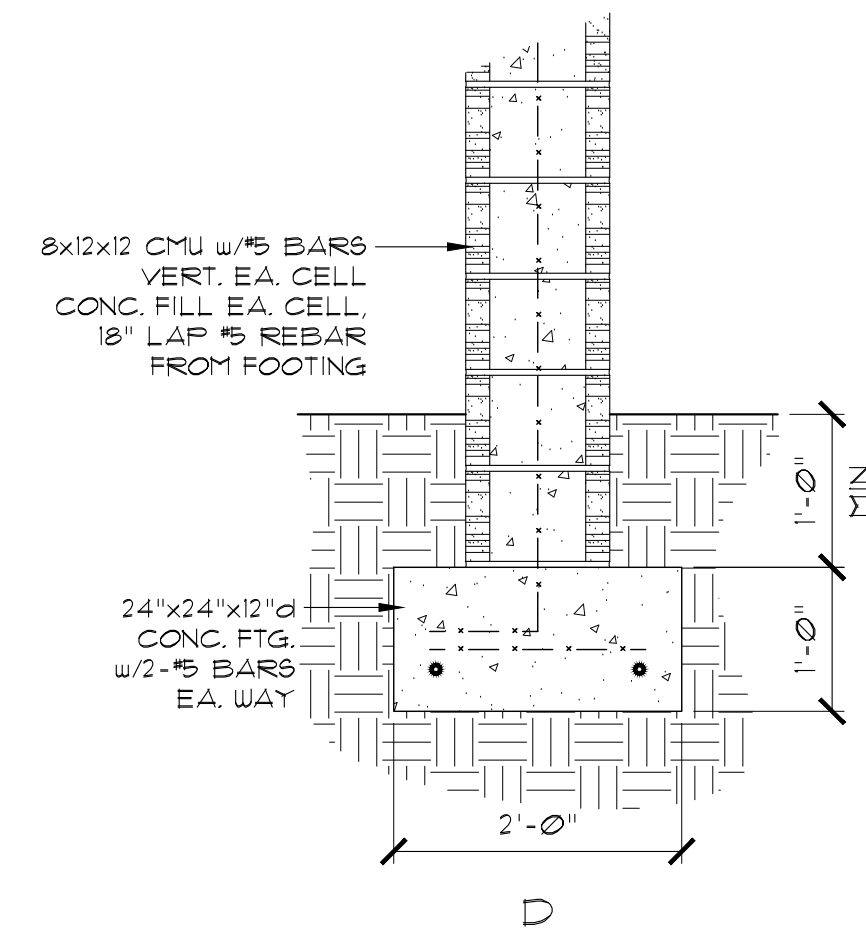
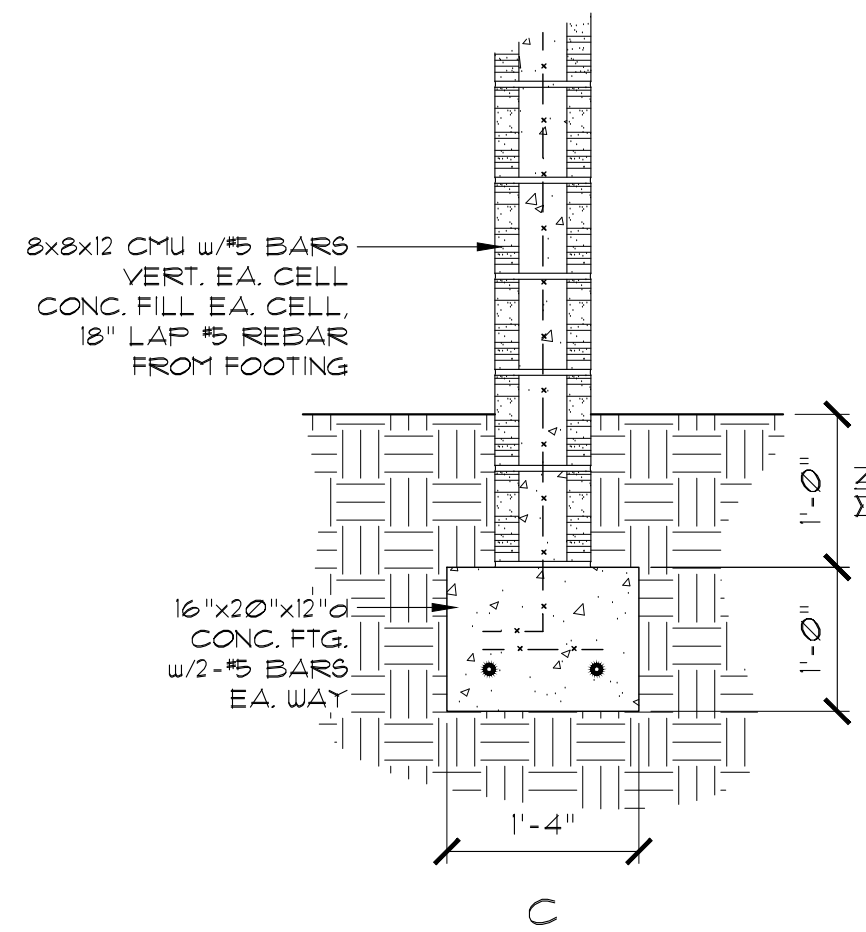
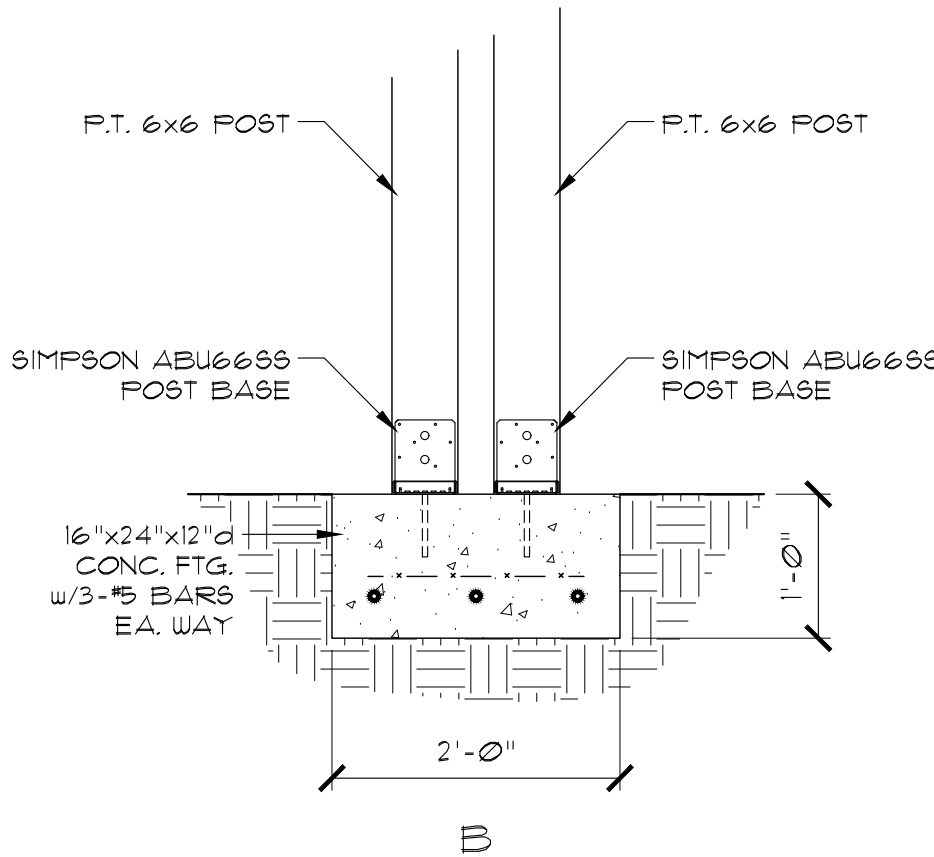
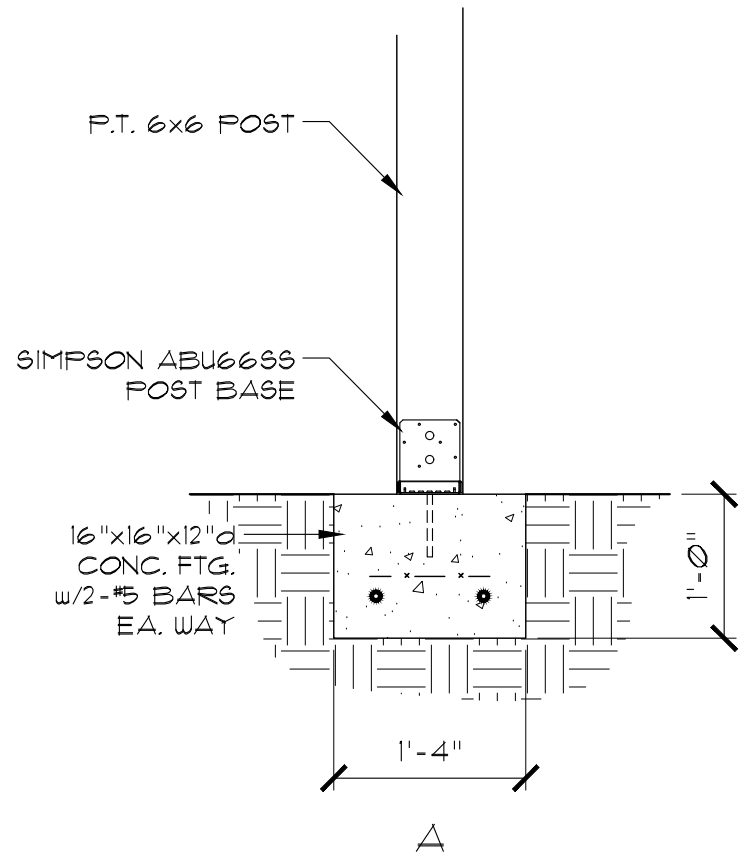
NEW PORCH
NEPTUNE BEACH COMMUNITY CENTER
NEPTUNE BEACH, FLORIDA

Date: 4.29.22
Scale: AS NOTED
Drawn: MURPHY
File: NEPTUNE

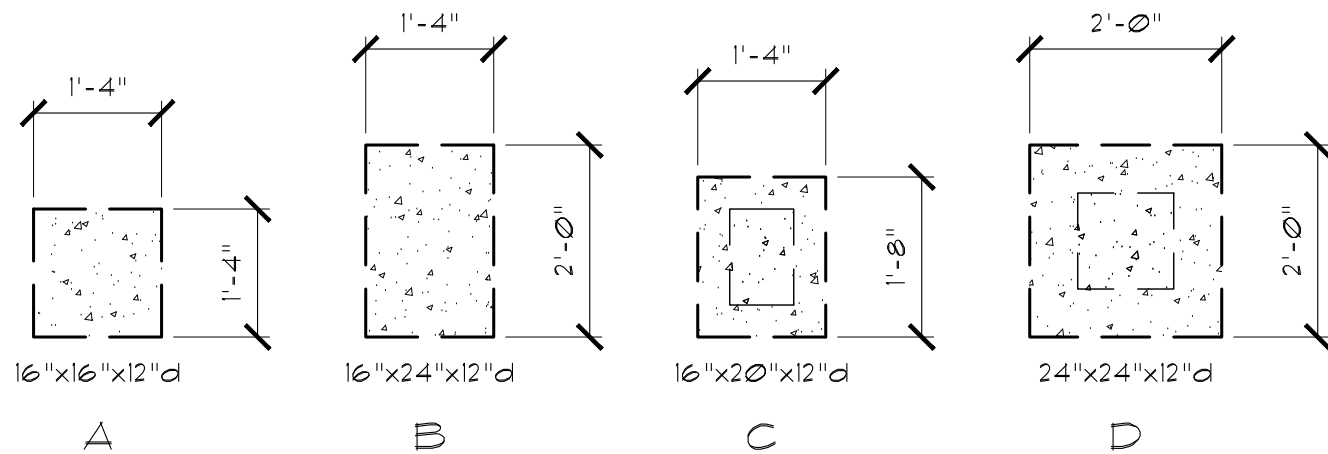
SHEET
A3



Foundation Plan
 $\frac{3}{16} = 1'-0''$

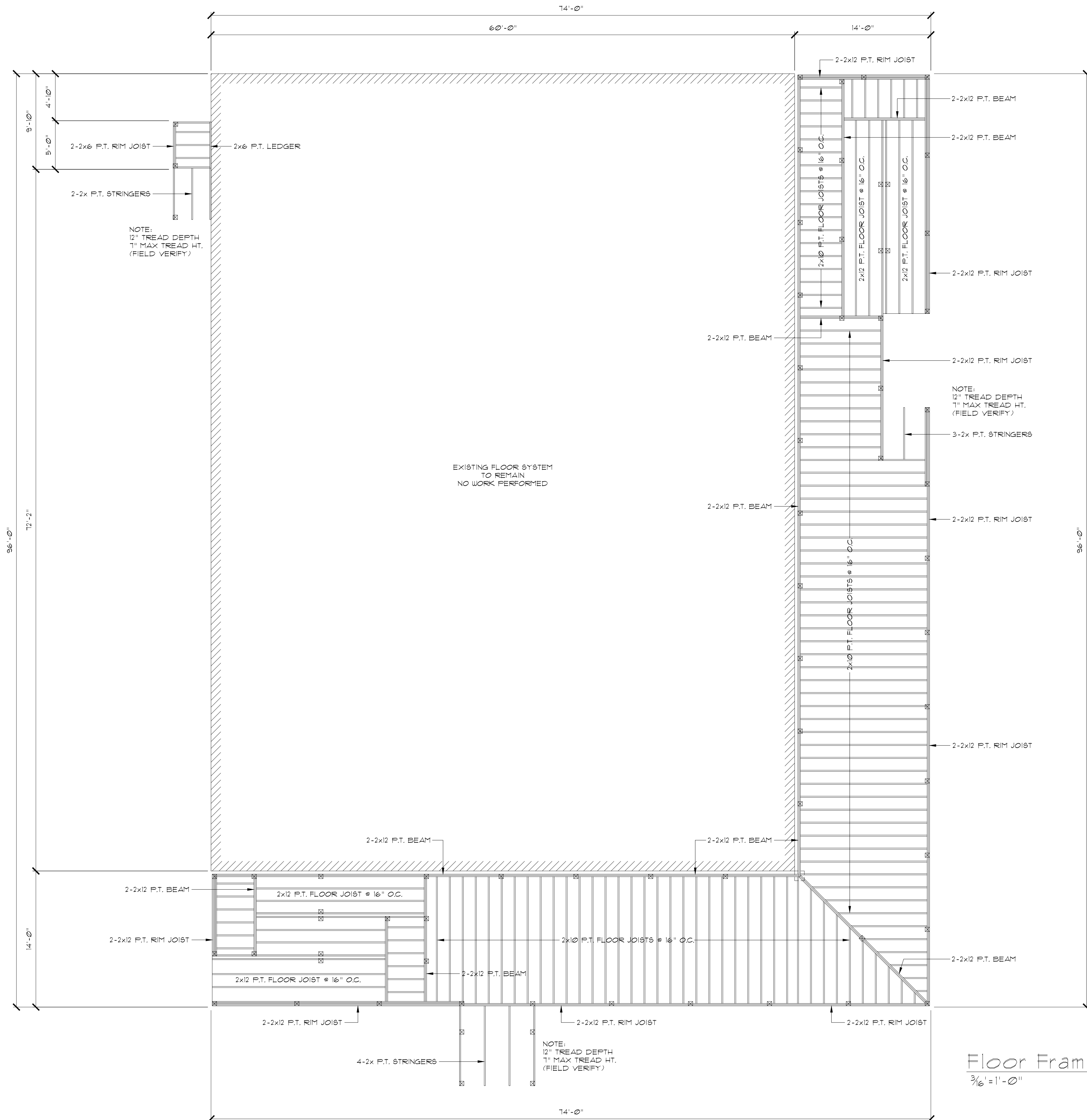


Foundation Details
 $\frac{1}{2} = 1'-0''$



Footing Types
 $\frac{1}{2} = 1'-0''$

NOTE:
CONTRACTOR/BUILDER
SHALL FIELD VERIFY
ALL DIMENSIONS AND CONDITIONS
PRIOR TO CONSTRUCTION.



Floor Framing Plan
3/16" = 1'-0"

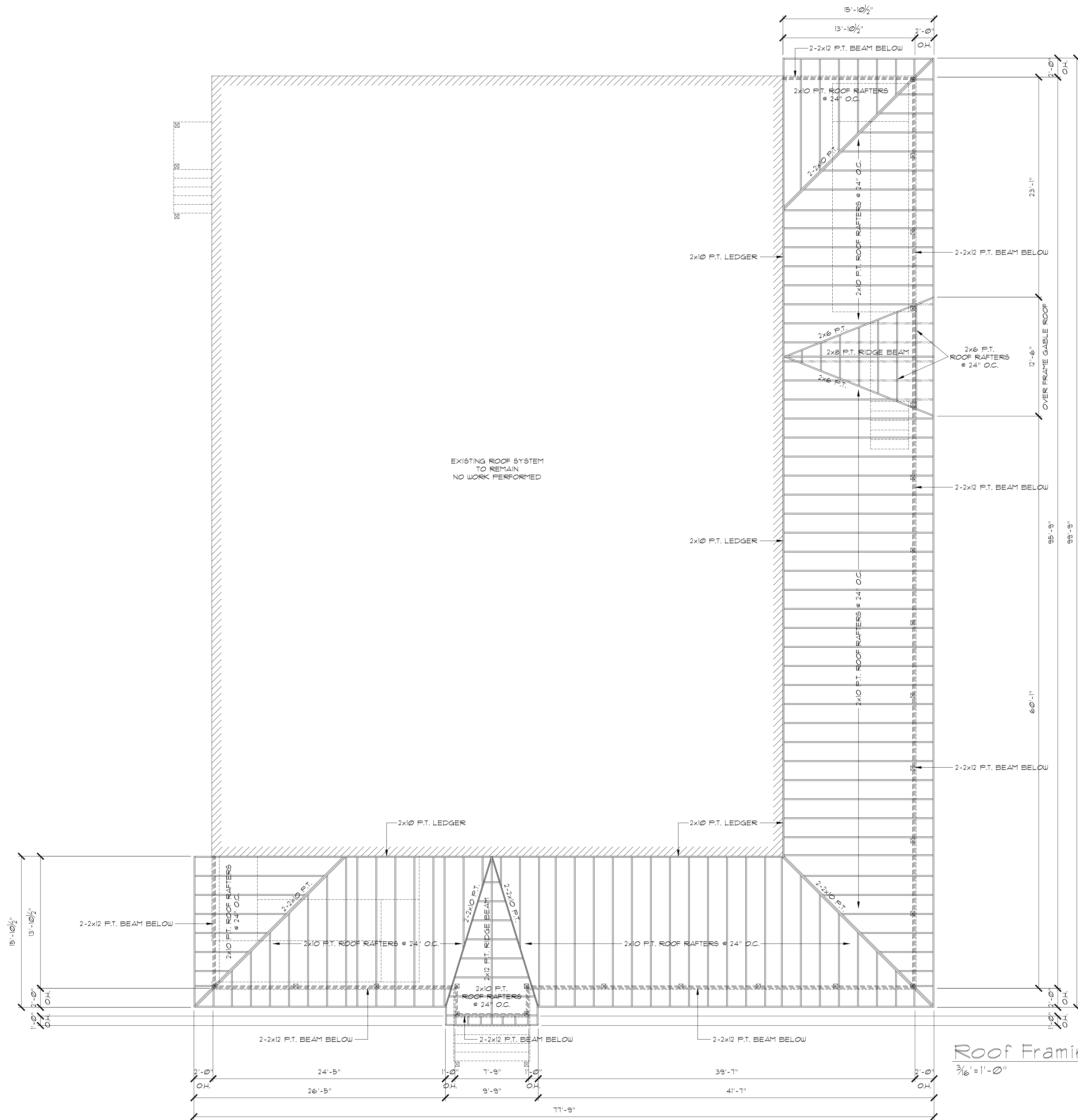
NOTE:
CONTRACTOR/BUILDER
SHALL FIELD VERIFY
ALL DIMENSIONS AND CONDITIONS
PRIOR TO CONSTRUCTION.

NEW PORCH
NEPTUNE BEACH COMMUNITY CENTER
NEPTUNE BEACH, FLORIDA

Date: 4.29.22
Scale: AS NOTED
Drawn: MURPHY
File: NEPTUNE

SHEET
A5

LES THOMAS
ARCHITECT
32 CORDOVA ST., ST. AUGUSTINE, FLORIDA 824-9508



Roof Framing Plan
3/16" = 1'-0"

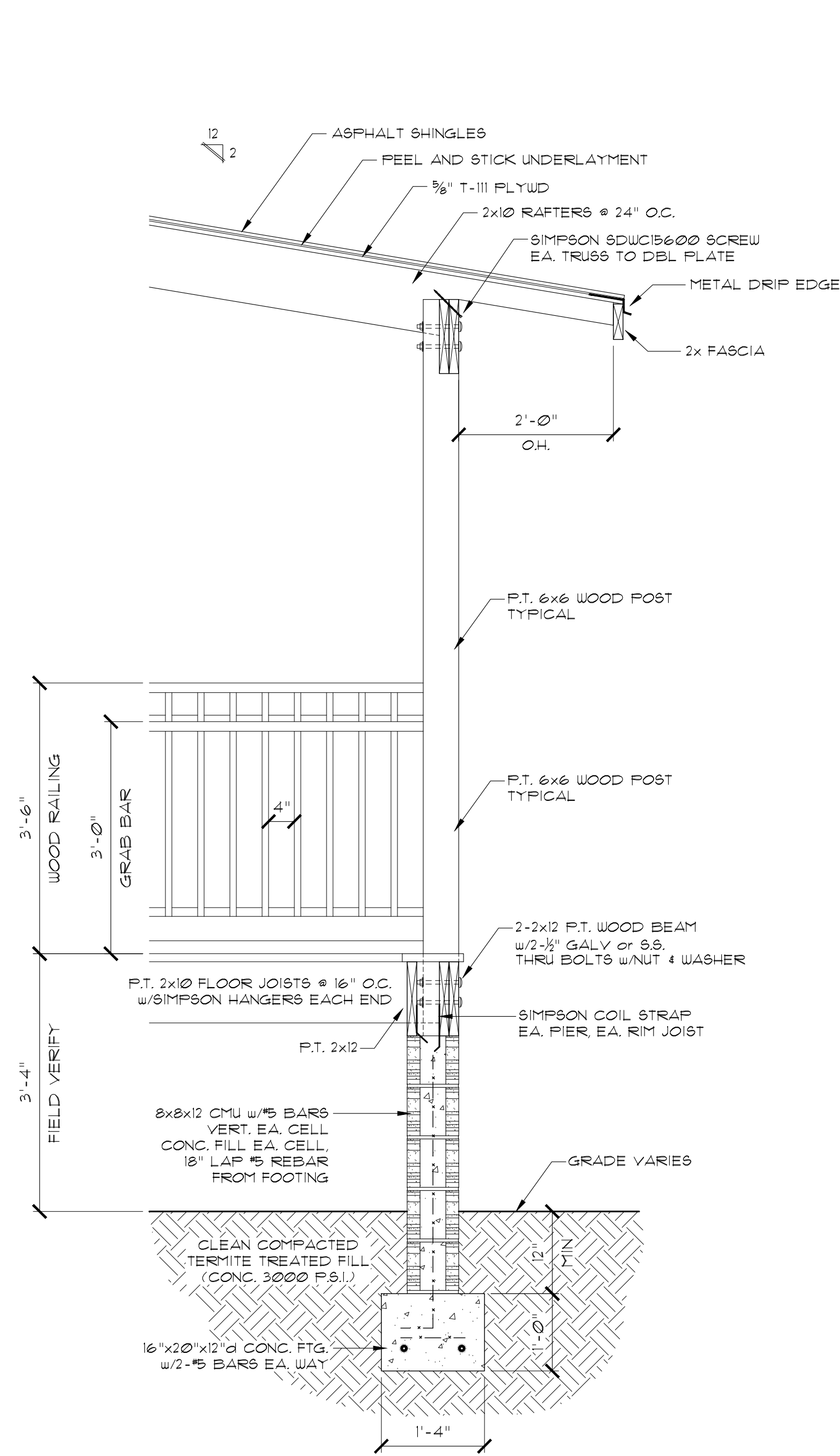
NOTE:
CONTRACTOR/BUILDER
SHALL FIELD VERIFY
ALL DIMENSIONS AND CONDITIONS
PRIOR TO CONSTRUCTION.

LES THOMAS
ARCHITECT
32 CORDOVA ST., ST. AUGUSTINE, FLORIDA 824-9508

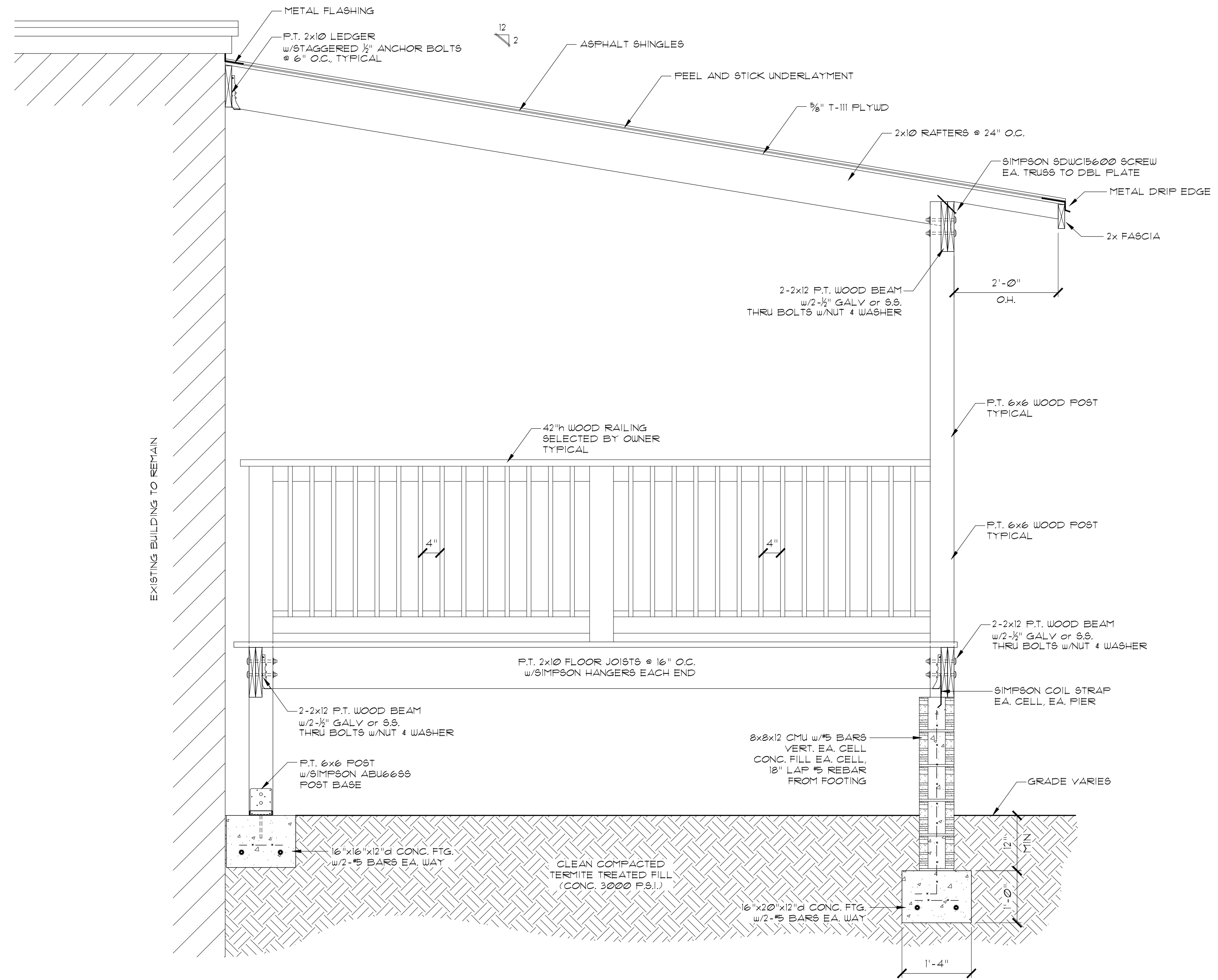
NEW PORCH
NEPTUNE BEACH COMMUNITY CENTER
NEPTUNE BEACH, FLORIDA

Date: 4.29.22
Scale: AS NOTED
Drawn: MURPHY
File: NEPTUNE

SHEET
A6

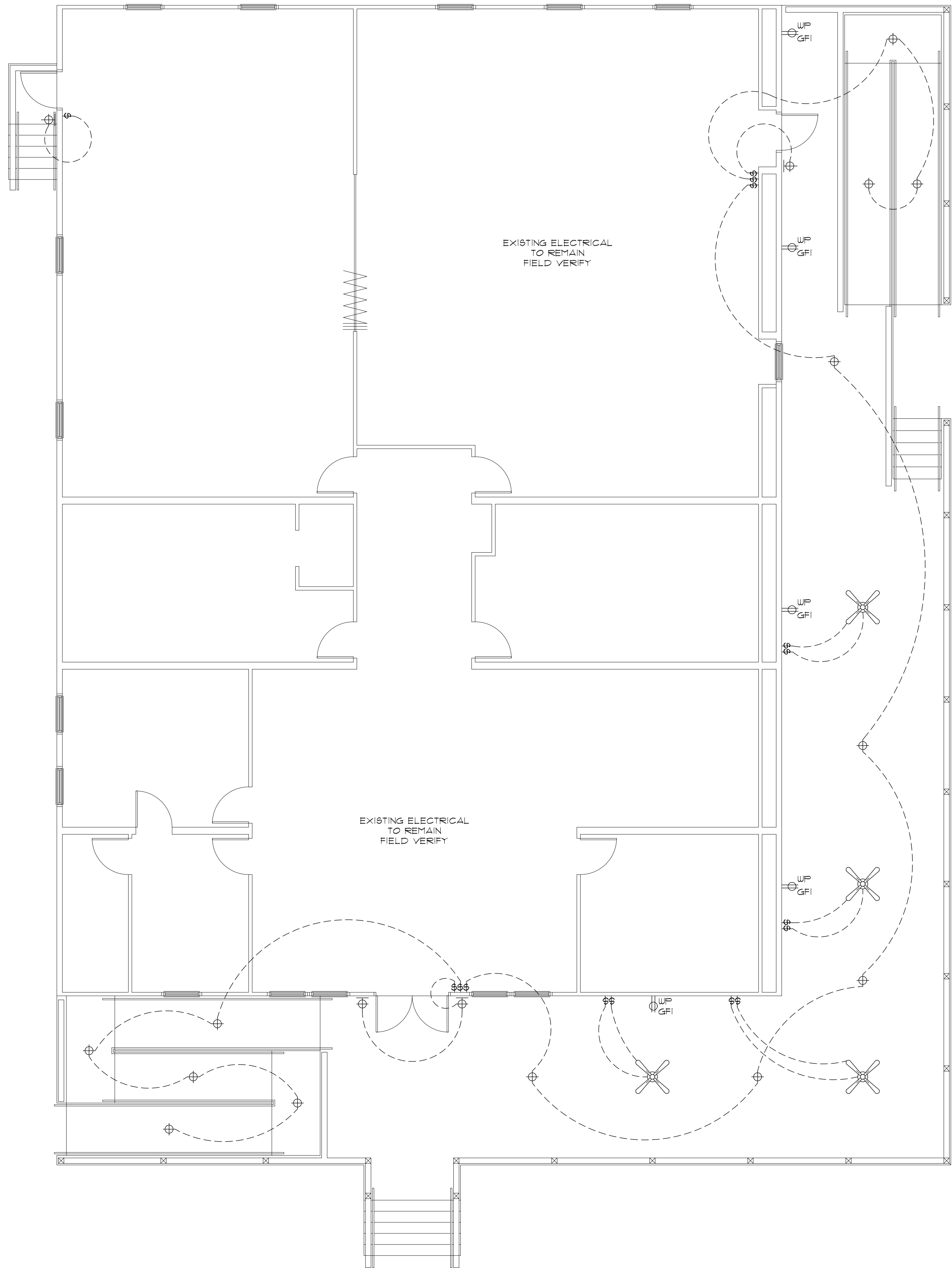


Ramp Section
 $\frac{3}{4}" = 1' - 0"$



Typ Section
 $\frac{3}{4}" = 1' - 0"$

NOTE:
 CONTRACTOR/BUILDER
 SHALL FIELD VERIFY
 ALL DIMENSIONS AND CONDITIONS
 PRIOR TO CONSTRUCTION.



Electrical Legend

- 120V WALL MOUNT DUPLEX RECEPTACLE
12" AFF. UN.O.
- WALL MTD LIGHT, SELECTED BY OWNER
- CEILING MTD LIGHT, SELECTED BY OWNER
- WALL MOUNTED SWITCH - 48" AFF. UN.O.
- w/ GROUND FAULT INTERRUPTER
- WEATHER PROTECTED
- CEILING MTD FAN WITH LIGHT, SELECTED BY OWNER

Electrical Plan
3/16" = 1'-0"

NEW PORCH
NEPTUNE BEACH COMMUNITY CENTER
NEPTUNE BEACH, FLORIDA

Date: 4.29.22
Scale: AS NOTED
Drawn: MURPHY
File: NEPTUNE

SHEET
A8

LES THOMAS
ARCHITECT
32 CORDOVA ST., ST. AUGUSTINE, FLORIDA 824-9508

NEPTUNE BEACH SENIOR COMMUNITY CENTER

2010 FOREST AVENUE
NEPTUNE BEACH, FLORIDA

PREPARED FOR:

CITY OF NEPTUNE BEACH

PROJECT TEAM:

DEVELOPER:
CITY OF NEPTUNE BEACH, FL
2010 FOREST AVENUE
NEPTUNE BEACH, FL 32266
(904) 270-2423

CIVIL ENGINEER:
MAVERICK ENGINEERING
10 WILLOW WINDS PARKWAY
ST. JOHNS, FL 32259
(904) 655-6687
ATTN: JEREMY W. CALLOWAY, PE

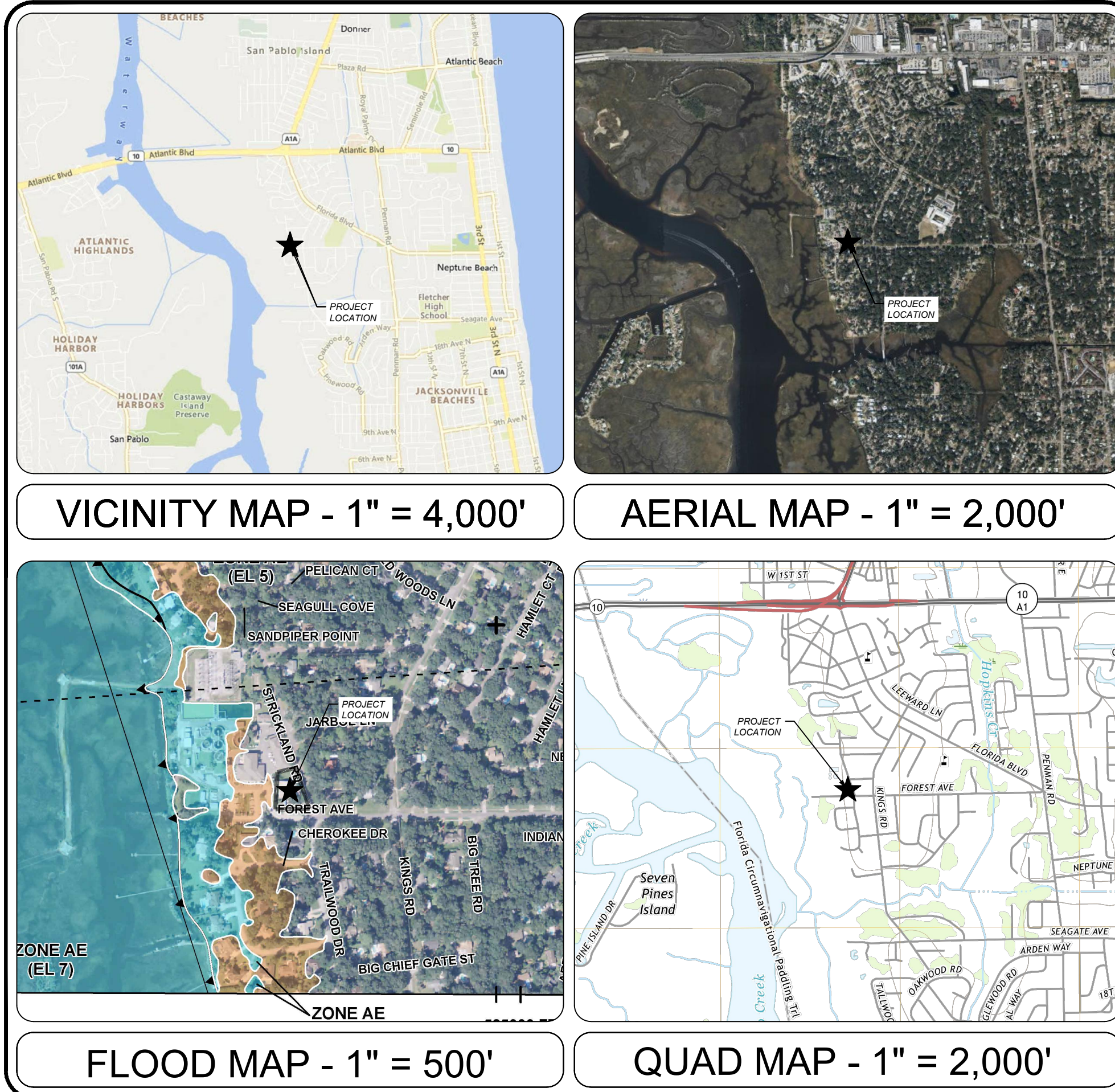
LANDSCAPE ARCHITECT:
MARQUIS LATIMER + HALBACK, INC.
34 CORDOVA STREET, SUITE A
ST. AUGUSTINE, FL 32084
(904) 825-6747
ATTN: JEREMY MARQUIS, RLA

ARCHITECT:
LES THOMAS ARCHITECT
32 CORDOVA STREET
ST. AUGUSTINE, FL 32084
(904) 824-9508
ATTN: LES THOMAS, AIA

SURVEYOR:
BOATWRIGHT LAND SURVEYORS, INC
1500 ROBERTS DRIVE
JACKSONVILLE BEACH, FL 32250
(904) 241-8550
ATTN: JASON D. BOATWRIGHT, PSM

GENERAL NOTES:

- (1) SEE SURVEY FOR LEGAL DESCRIPTION
- (2) ALL ELEVATIONS SHOWN HEREIN ARE REFERENCED TO THE NORTH AMERICAN GEODETIC VERTICAL DATUM 1988 (NAVD88)
- (3) ANY AND ALL WORK PERFORMED IN CITY OF NEPTUNE BEACH RIGHT-OF-WAYS SHALL BE IN ACCORDANCE WITH APPLICABLE CITY STANDARDS.
- (4) IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW ALL DRAWINGS AND SPECIFICATIONS ASSOCIATED WITH THIS PROJECT PRIOR TO CONSTRUCTION COMMENCEMENT. IF A DISCREPANCY IS DISCOVERED BETWEEN THE SURVEY, ABOVE AND BELOW GROUND FIELD VERIFICATION, AND/OR APPLICABLE CODES, THE ENGINEER OF RECORD MUST BE NOTIFIED IN WRITING PRIOR TO THE INITIATION OF CONSTRUCTION. FAILURE BY THE CONTRACTOR TO NOTIFY THE ENGINEER OF RECORD SHALL CONSTITUTE FULL RESPONSIBILITY BY THE CONTRACTOR TO COMPLETE THE SCOPE OF WORK AS DETAILED BY THE DRAWINGS AND SPECIFICATIONS AND IN FULL CONFORMANCE WITH APPLICABLE REGULATIONS AND CODES.
- (5) THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO AVOID DAMAGE TO ADJACENT PROPERTY AND EXISTING SITE FEATURES TO REMAIN AND WILL BE HELD SOLELY RESPONSIBLE FOR ANY DAMAGE.
- (6) IT IS THE APPLICANT'S RESPONSIBILITY TO SCHEDULE A PRE-CONSTRUCTION/ PRE-PERMIT MEETING WITH CITY OF NEPTUNE BEACH AFTER PLANS ARE RELEASED FOR CONSTRUCTION AND BEFORE STARTING ANY SITE CONSTRUCTION ACTIVITIES.



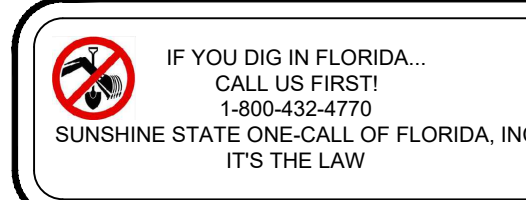
PREPARED BY:



MAVERICK ENGINEERING



Know what's **below**.
Call before you dig.



DRAWING INDEX

SHEET NUMBER	SHEET TITLE
1	COVER SHEET
2	SIGNATURE SHEET
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4	SURVEY
5	DEMOLITION & EROSION CONTROL PLAN
6	SITE IMPROVEMENTS PLAN
7	CONSTRUCTION DETAILS
8	SWPPP DETAILS
9	CONTRACTOR CERTIFICATION
L-2.1	HARDSCAPE PLAN
L-2.2	HARDSCAPE DETAILS AND NOTES
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L-4.2	IRRIGATION DETAILS
L-5.1	IRRIGATION DETAILS
L-5.2	IRRIGATION DETAILS

REGULATORY AGENCIES:

CITY OF NEPTUNE BEACH PUBLIC WORKS DEPARTMENT:
2010 FOREST AVENUE
NEPTUNE BEACH, FL 32266
(904) 270-2423

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT:
7775 BAYMEADOWS WAY, SUITE 102
JACKSONVILLE, FL 32256
(904) 424-3410

FLOOD ZONE:

THE SUBJECT PROPERTY IS LOCATED IN FLOOD ZONE "X" PER
FLOOD INSURANCE RATE MAP COMMUNITY PANEL NUMBER
12031C0408J, DATED NOVEMBER 2, 2018

PROJECT DATUM: NAVD '88



JEREMY W. CALLOWAY, P.E.
 A#34646 PE#70838

MAVERICK ENGINEERING
10 WILLOW WINDS PARKWAY
ST. JOHNS, FLORIDA 32259
(904) 655-6687



2251

DESIGN BY:	PET	#	DATE	DESCRIPTION
CHECKED BY:	JWC	1	1/28/2022	REVISED PER CLIENT
DATE:	12/06/2021	2	4/18/2022	REVISED PER SURVEY
PROJECT #:	2116		4/28/22	4/28/22
			5/11/22	5/11/22
			5/11/22	5/11/22

COVER SHEET

NEPTUNE BEACH SENIOR COMMUNITY CENTER

NEPTUNE BEACH, FLORIDA

CITY OF NEPTUNE BEACH

1

F 9

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY JEREMY W. CALLOWAY, P.E. ON THE DATE ADJACENT TO THE SEAL

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ELECTRONIC COPIES.

THE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

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6	SITE IMPROVEMENTS PLAN
7	CONSTRUCTION DETAILS
8	SWPPP DETAILS

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY JEREMY MARQUIS, RLA ON THE DATE ADJACENT TO THE SEAL

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ELECTRONIC COPIES.

THE NAMED PROFESSIONAL LANDSCAPE ARCHITECT SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G1-16.005, F.A.C.

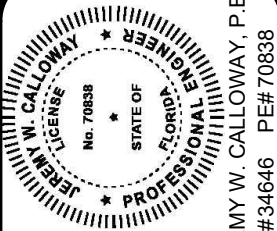
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L-2.2	HARDSCAPE DETAILS AND NOTES
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L-3.2	LANDSCAPE NOTES
L-3.3 - L-4.1	LANDSCAPE DETAILS
L-4.1	IRRIGATION PLAN AND SCHEDULE
L-4.2	IRRIGATION DETAILS
L-5.1	IRRIGATION DETAILS
L-5.2	IRRIGATION DETAILS

2
OF 9

SIGNATURE SHEET
NEPTUNE BEACH SENIOR COMMUNITY CENTER
NEPTUNE BEACH, FLORIDA
PREPARED FOR:
CITY OF NEPTUNE BEACH

DRAWING BY: PET
DESIGN BY: PET
CHECKED BY: JWC
DATE: 12/09/2021
PROJECT #: 2116

REVISIONS
#DATEDESCRIPTION
11/28/2022REVISED PER CLIENT COMMENTS
24/18/2022REVISED PER SJRWWD COMMENTS

MAVERICK ENGINEERING
10 WILLOW WINDS PARKWAY
ST. JOHNS, FLORIDA 32259
(904) 655-6687

JEREMY W. CALLOWAY, P.E.
CA#154546 P.E.#70938

1. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS AT THE JOB SITE TO INSURE THAT THE WORK WILL FIT IN THE MANNER INTENDED ON THE PLANS. SHOULD ANY CONDITIONS EXIST THAT ARE CONTRARY TO THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND THE LOCAL GOVERNING BODY OF SUCH DIFFERENCES IMMEDIATELY AND PRIOR TO PROCEEDING WITH THE WORK.
2. THE CONTRACTOR SHALL COMPLY WITH ALL CONDITIONS AS SET FORTH BY THE WATER MANAGEMENT DISTRICT AND FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION.
3. THE CONTRACTOR SHALL MAINTAIN THE CONSTRUCTION SITE IN A SECURE MANNER. ALL OPEN TRENCHES AND EXCAVATED AREAS SHALL BE PROTECTED FROM ACCESS BY THE GENERAL PUBLIC.
4. ANY PUBLIC LAND CORNER WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE CONTRACTOR SHOULD NOTIFY THE ENGINEER.
5. THE CONTRACTOR SHALL INSTALL ALL SEDIMENT AND EROSION CONTROLS PRIOR TO ANY EARTH DISTURBING ACTIVITIES. ALL COMPONENTS SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL ALL VEGETATION IS ESTABLISHED, THE ENTIRE PROJECT AREA IS STABILIZED, AND THE OWNER HAS ACCEPTED OPERATION AND MAINTENANCE.
6. ALL DISTURBED AREAS NOT SODDED SHALL BE SEEDED WITH A MIXTURE OF LONG-TERM VEGETATION AND QUICK GROWING SHORT-TERM VEGETATION FOR THE FOLLOWING CONDITIONS. FOR THE MONTHS FROM SEPTEMBER THROUGH MARCH, THE MIX SHALL CONSIST OF 70 POUNDS PER ACRE OF LONG-TERM SEED AND 20 POUNDS PER ACRE OF WINTER RYE. FOR THE MONTHS OF APRIL THROUGH AUGUST, THE MIX SHALL CONSIST OF 70 PER ACRE OF LONG-TERM SEED AND 20 POUNDS PER ACRE OF MILLET.
7. THE LOCATION OF THE UTILITIES SHOWN IN THE PLANS ARE APPROXIMATE ONLY. THE EXACT LOCATION SHALL BE DETERMINED BY THE CONTRACTOR DURING CONSTRUCTION. CONTRACTOR SHALL PROTECT ALL UTILITIES WITHIN THE PROJECT AREAS.
8. ALL UTILITY CONSTRUCTION SHALL MEET THE WATER AND WASTEWATER UTILITY STANDARDS OF THE UTILITY SERVICE PROVIDER IN THE PROJECT AREA.
9. THE CONTRACTOR SHALL WASTE ALL EXCESS EARTH ON SITE AS DIRECTED BY THE ENGINEER.
10. ALL SITE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LOCAL GOVERNING BODY'S LAND DEVELOPMENT REGULATIONS.
11. CONTRACTOR SHALL REVIEW AND BECOME FAMILIAR WITH ALL REQUIRED UTILITY CONNECTIONS PRIOR TO BIDDING. CONTRACTOR SHALL PROVIDE ALL WORK AND MATERIALS REQUIRED TO COMPLETE CONNECTION TO THE EXISTING UTILITIES. THIS INCLUDES BUT IS NOT LIMITED TO MANHOLE CORING, WET TAPS, PAVEMENT REPAIRS AND DIRECTIONAL BORING.
12. CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER CONTRACTORS WITHIN PROJECT AREA.
13. CONTRACTOR SHALL PROVIDE ACTUAL INVERT ELEVATIONS ON ALL DRAINAGE STRUCTURES, INCLUDING CULVERTS. PRIOR TO PLACING ANY BASE MATERIAL, DEVIATIONS FROM THE PLANS SHALL BE APPROVED BY THE ENGINEER BEFORE CONTINUING WORK.
14. THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE F.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (CURRENT EDITION) AND THE F.D.O.T. DESIGN STANDARDS (CURRENT EDITION), AWWA SPECIFICATIONS, AND THE LOCAL GOVERNING BODY'S DEVELOPMENT STANDARDS UNLESS OTHERWISE NOTED.
15. IF UNSUITABLE MATERIAL IS ENCOUNTERED DURING GRADING, CONTRACTOR SHALL REMOVE UNSUITABLE MATERIAL TO A DEPTH OF 24" BELOW FINISHED GRADE WITHIN THE CONSTRUCTION LIMITS AND REPLACE WITH CLEAN COURSE SAND HAVING NO MORE THAN 5% PASSING THE No. 200 SIEVE $KV_{50} = 23.4$ FT/DAY.
16. THE CONTRACTOR SHALL NOTIFY THE LOCAL GOVERNING BODY AT LEAST 48 HOURS IN ADVANCE PRIOR TO BEGINNING OF CONSTRUCTION.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONSTRUCTION COMMENCEMENT NOTICE AND NOTIFYING THE ENGINEER OF THE CONSTRUCTION SCHEDULE.
18. THE CONTRACTOR SHALL INSTALL CONSTRUCTION FENCING AND NO TRESPASSING SIGNS FOR THE DURATION OF CONSTRUCTION.
19. THE CONTRACTOR IS CAUTIONED TO VISIT THE SITE AND FAMILIARIZE HIMSELF WITH THE PROJECT PRIOR TO BIDDING.
20. THESE DRAWINGS REPRESENT KNOWN STRUCTURES AND UTILITIES LOCATED IN THE PROJECT AREA. THE CONTRACTOR IS CAUTIONED THAT OTHER STRUCTURES AND UTILITIES, ABOVE OR BELOW GROUND, MAY BE ENCOUNTERED DURING THE COURSE OF THE PROJECT. THE CONTRACTOR SHOULD NOTIFY THE ENGINEER IMMEDIATELY UPON ENCOUNTERING ANY UNEXPECTED STRUCTURE, UTILITY LINE, OR OTHER UNUSUAL CONDITION.
21. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF EXISTING UTILITIES AND TO TAKE WHATEVER STEPS NECESSARY TO PROVIDE FOR THEIR PROTECTION.
22. ADEQUATE PROVISIONS SHALL BE MADE FOR FLOW OF SEWERS, DRAINS, AND WATER COURSES ENCOUNTERED DURING CONSTRUCTION.
23. THE CONTRACTOR SHALL PLACE AND MAINTAIN ADEQUATE BARRICADES, CONSTRUCTION SIGNS, FLASHING LIGHTS, TORCHES, RED LANTERNS AND GUARDS DURING CONSTRUCTION WORK UNTIL IT IS SAFE FOR BOTH PEDESTRIAN AND VEHICULAR TRAFFIC.
24. ALL DEMOLISHED ASPHALT, CONCRETE, PIPE, STRUCTURES AND OTHER DEBRIS SHALL BE REMOVED FROM THE PROJECT SITE AND DISPOSED OF IN A LEGAL MANNER.
25. MAINTAIN 12" VERTICAL SEPARATION BETWEEN ALL POTABLE WATER MAINS AND SANITARY SEWER GRAVITY AND FORCE MAINS.
26. WHERE WATER MAINS CROSS THE SANITARY SEWER, THE SEWER MAIN SHALL BE ENCASED IN CONCRETE FOR A DISTANCE OF 10 FEET BOTH SIDES OF THE WATER MAIN, UNLESS A MINIMUM OF 12" VERTICAL SEPARATION IS MAINTAINED WITH THE WATER ABOVE TO SEWER MAIN.
27. ALL NEW SEWER MAINS SHALL HAVE A MINIMUM COVER OF 36".
28. ALL EXISTING DRIVES, ROADS, CULVERTS, ETC. THAT ARE DAMAGED DURING CONSTRUCTION ARE TO BE RESTORED TO THEIR ORIGINAL CONDITION.
29. ALL DISTURBED AREAS ARE TO BE CLEANED, GRADED AND ROLLED TO ORIGINAL CONTOURS, HYDROSEEDED TO DOT SPECIFICATIONS UNLESS SPECIFICALLY NOTED OTHERWISE. CONTRACTOR SHALL MAINTAIN DISTURBED AREAS UNTIL A SATISFACTORY STAND OF GRASS IS ESTABLISHED WITHOUT BARE SECTIONS OR ERODED AREAS.
30. CONTRACTOR SHALL PROVIDE SIGNED AND SEALED AS-BUILTS BY A LICENSED PLS TO THE EOR FOR REVIEW AND APPROVAL.

1. THIS EROSION AND SEDIMENTATION CONTROL PLAN COMPLIES WITH THE REQUIREMENTS OF THE "FLORIDA DEVELOPMENT MANUAL" AND THE "FLORIDA EROSION AND SEDIMENT CONTROL INSPECTOR'S MANUAL".
2. THE CONTRACTOR SHALL ADHERE TO THE LOCAL GOVERNING BODY, F.D.P. AND OTHER GOVERNING AUTHORITIES FOR EROSION AND SEDIMENT CONTROL REGULATIONS. IF THE CONTRACTOR NEEDS TO CHANGE THIS PLAN TO MORE EFFECTIVELY CONTROL EROSION AND SEDIMENTATION, THE CONTRACTOR SHALL USE BMP'S FROM THE "FLORIDA EROSION AND SEDIMENT CONTROL INSPECTOR'S MANUAL".
3. THE CONTRACTOR SHALL ADJUST AND REVISE THIS PLAN TO MEET ACTUAL FIELD CONDITIONS. ANY REVISIONS SHALL BE APPROVED BY THE REVIEWING AGENCIES.
4. SEDIMENT AND EROSION CONTROL FACILITIES, STORM DRAINAGE FACILITIES AND DETENTION BASINS SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION.
5. EROSION CONTROL MEASURES SHALL BE INSPECTED WEEKLY AND AFTER EACH RAINFALL AND REPLACED AS NECESSARY.
6. SEDIMENT AND EROSION CONTROL MEASURES SHALL NOT BE REMOVED UNTIL ALL CONSTRUCTION IS COMPLETE AND UNTIL A PERMANENT GRASS COVER HAS BEEN ESTABLISHED.
7. ALL OPEN DRAINAGE SWALES SHALL BE GRASSED AND RIPRAP SHALL BE PLACED AS REQUIRED TO CONTROL EROSION.
8. SILT FENCES SHALL BE LOCATED ON SITE TO PREVENT SEDIMENT AND EROSION FROM LEAVING PROJECT LIMITS.
9. CONTRACTOR SHALL PLACE A DOUBLE ROW OF SILT FENCE IN AREAS WHERE RUNOFF FROM DISTURBED AREAS MAY ENTER WETLANDS.
10. DURING CONSTRUCTION AND AFTER CONSTRUCTION IS COMPLETE, ALL STRUCTURES SHALL BE CLEANED OF ALL DEBRIS AND EXCESS SEDIMENT.
11. ALL GRADED AREAS SHALL BE STABILIZED IMMEDIATELY WITH A TEMPORARY FAST-GROWING COVER AND/OR MULCH.
12. A PAD OF RUBBLE RIP RAP SHALL BE PLACED AT THE BOTTOM OF ALL COLLECTION FLUMES AND COLLECTION PIPE OUTLETS. GRANITE OR LIMESTONE RIPRAP IS REQUIRED, NO BROKEN CONCRETE WILL BE ACCEPTED.
13. ALL SIDE SLOPES STEEPER THAN 3:1 SHALL BE ADEQUATELY PROTECTED FROM EROSION THROUGH THE USE OF HAY BALES OR SODDING.
14. ALL STABILIZATION PRACTICES SHALL BE INITIATED AS SOON AS PRACTICABLE IN AREAS OF THE JOB WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY STOPPED, BUT IN NO CASE SHALL THE DISTURBED

15. ALL WASTE GENERATED ON THE PROJECT SHALL BE DISPOSED OF BY THE CONTRACTOR IN AREAS PROVIDED BY CONTRACTOR.
16. LOADED HAUL TRUCKS SHALL BE COVERED WITH TARPS.
17. EXCESS DIRT SHALL BE REMOVED DAILY.
18. THIS PROJECT SHALL COMPLY WITH ALL WATER QUALITY STANDARDS.
19. QUALIFIED PERSONNEL SHALL INSPECT THE AREA USED FOR STORAGE OF STOCKPILES, THE SILT FENCE AND STRAW BATS TO THE DISTURBED AREAS WHERE VEHICLES ENTER OR EXIT THE SITE. AND THE DISTURBED AREAS THAT HAVE NOT BEEN FINALLY STABILIZED, AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM OF 0.5 INCHES OR GREATER.
20. SITES THAT HAVE BEEN FINALLY STABILIZED WITH SOD OR GRASSING SHALL BE INSPECTED AT LEAST ONCE EVERY WEEK.

ALL WORK IN THE COUNTY RIGHT OF WAY SHALL CONFORM TO THE FOLLOWING:

1. CONTRACTOR SHALL NOTIFY THE COUNTY PUBLIC WORKS DEPT. 24 HOURS IN ADVANCE OF STARTING PROPOSED WORK.
2. MAINTENANCE OF TRAFFIC SHALL BE IN ACCORDANCE WITH APPLICABLE FDOT STANDARD INDEXES.
3. ALL DISTURBED AREAS IN THE COUNTY RIGHT OF WAY NOT RESTORED AS PAVEMENT SHALL BE SODDED.
4. RPM'S SHALL BE INSTALLED IN ACCORDANCE WITH FDOT STANDARD INDEX 17362.
5. ALL PERMANENT STRIPING IN COUNTY R.O.W. SHALL BE THERMOPLASTIC.

- ALL UTILITY CONSTRUCTION SHALL MEET THE UTILITY PROVIDER AND LOCAL GOVERNING BODY'S WATER AND WASTEWATER UTILITY STANDARDS.
2. THE CONTRACTOR SHALL MAINTAIN EXISTING WATER MAINS IN SERVICE DURING CONSTRUCTION. IN THE EVENT INTERRUPTIONS TO SERVICE ARE REQUIRED DURING CONSTRUCTION, SUCH INSTANCES SHALL BE MINIMIZED.
3. ALL NEW OR RELOCATED WATER MAINS THAT SERVE FIRE HYDRANTS AND ALL FIRE HYDRANT LEADS SHALL BE NO SMALLER THAN SIX INCHES IN DIAMETER. AUXILIARY VALVES SHALL BE PROVIDED ON ALL HYDRANT LEADS.
4. SUFFICIENT VALVES SHALL BE PROVIDED IN NEW AND RELOCATED WATER MAINS SO THAT INCONVENIENCE AND SANITARY HAZARDS WILL BE MINIMIZED DURING REPAIRS. (VALVES SHALL BE PLACED IN NO MORE THAN 500-FOOT INTERVALS IN COMMERCIAL DISTRICTS AND IN AT NO MORE THAN ONE-BLOCK OR 800-FOOT INTERVALS IN OTHER DISTRICTS.)
5. IF THERE ARE ANY NEW OR RELOCATED WATER MAINS THAT CROSS UNDER ANY SURFACE WATER, A MINIMUM COVER OF TWO FEET SHALL BE PROVIDED OVER THE WATER MAIN PIPE AT EACH SURFACE WATER CROSSING, AND IF THE SURFACE WATER IS GREATER THAN 15 FEET IN WIDTH, THE FOLLOWING FEATURES SHALL BE PROVIDED: (A) FLEXIBLE WATER TIGHT JOINTS FOR THE WATER MAIN PIPE AT THE CROSSING, (B) EASILY ACCESSIBLE VALVES LOCATED IN A MANHOLE, AND (C) PERMANENT TAPS ON EACH SIDE OF THE VALVE WITHIN THE MANHOLE TO ALLOW FOR SAMPLING AND INSERTION OF A SMALL METER TO DETERMINE LEAKAGE.
6. PROPER BACKFLOW-PREVENTION ASSEMBLIES/DEVICES SHALL BE PROVIDED IN ACCORDANCE WITH RULE 62-555.360, F.A.C., AND THE AWWA'S MANUAL M4, RECOMMENDED PRACTICE FOR BACKFLOW PREVENTION AND CROSS-CONNECTION CONTROL.
7. THIS PROJECT SHALL NOT INCLUDE ANY INTERCONNECTION BETWEEN PREVIOUSLY SEPARATE PUBLIC WATER SYSTEMS THAT HAVE SEPARATE WATER SUPPLY SOURCES. (A SPECIFIC CONSTRUCTION PERMIT IS REQUIRED FOR SUCH AN INTERCONNECTION.)
8. ALL NEW RELOCATED WATER LATERALS THAT CROSS ANY SANITARY SEWERS, STORM SEWERS, FORCE MAINS, OR RECLAIMED WATER LINES SHALL CROSS ABOVE SUCH PIPELINES.
9. CONTRACTOR SHALL PROVIDE AN AS-BUILT SURVEY MEETING THE REQUIREMENTS OF CHAPTER 61017 F.A.C. FOR THE POTABLE WATER MAIN EXTENSION AND THE SANITARY SEWER MAIN EXTENSIONS. INCLUDE HORIZONTAL AND VERTICAL DIMENSIONAL DATA, SO THAT IMPROVEMENTS ARE LOCATED AND DELINEATED RELATIVE TO THE BOUNDARY. PROVIDE SUFFICIENT DETAILED DATA TO DETERMINE WHETHER THE IMPROVEMENTS WERE CONSTRUCTED IN ACCORDANCE WITH THE PLANS. SUBMIT THE SURVEY TO THE ENGINEER IN DIGITAL AUTOCAD FORMAT.
10. COPPER TRACER WIRE SHALL BE PLACED ON ALL POTABLE WATER LINES AND WATER LATERALS. TRACER WIRE SHALL BE CONTINUOUS WITH NO INTERRUPTIONS.
11. LOCATOR BALLS SHALL BE PROVIDED AT END OF USE ALL WATER AND SANITARY SEWER LATERALS. THE LOCATOR BALLS SHALL BE SECURED TO THE LATERALS WITH A PLASTIC TIE STRAP.
12. WATER AND SANITARY SEWER LATERALS SHALL BE LEFT UNCOVERED UNTIL INSPECTED BY THE ENGINEER OR THE ENGINEER'S INSPECTOR.
13. CONTRACTOR SHALL PROVIDE TEMPORARY STAKES (2" BY 2" WOODEN STAKES) AT THE END OF EACH LATERAL. EACH STAKE SHALL INDICATE EITHER WATER OR SANITARY SEWER LATERAL. CONTRACTOR SHALL MAINTAIN THE STAKES UNTIL AN AS-BUILT SURVEY OF WATER AND SANITARY SEWER MAINS AND LATERALS ARE COMPLETE AND APPROVED BY THE ENGINEER.
14. MEGALUG MECHANICAL JOINT RESTRAINTS OR SERIES 1390 UNIFLANGE BLOCK BUSTER RESTRAINT DEVICES SHALL BE USED WITH MANUFACTURER'S RECOMMENDATIONS. ALL RESTRAINED JOINTING MUST BE LEFT OPEN UNTIL APPROVED BY THE CITY INSPECTOR.
15. FOR SANITARY SEWER PERFORM HYDROSTATIC TEST. ALLOWABLE LEAKAGE IS A MAXIMUM OF 50 GAL. PER INCH OF NOMINAL PIPE SIZE PER MILE OF PIPE, DURING A 24-HOUR PERIOD. OPTION: TEST DUCTILE-IRON PIPING ACCORDING TO AWWA C600, SECTION "HYDROSTATIC TESTING" - USE TEST PRESSURE OF AT LEAST 10 PSI. FOR SANITARY SEWERAGE, PERFORM AIR TEST ACCORDING TO UN1-S-6.
16. FOR SANITARY SEWERAGE ALIGNMENT: EACH SECTION OF THE COMPLETED SEWER SYSTEM SHALL BE INSPECTED FOR PROPER ALIGNMENT. INSPECTION SHALL CONSIST OF "LAMPING" FROM MANHOLE TO MANHOLE. ANY SECTION OF THE SEWER SYSTEM, WHICH DOES NOT DISPLAY TRUE, CONCENTRIC ALIGNMENT, SHALL BE INSTALLED AT NO ADDITIONAL EXPENSE TO THE OWNER.
17. CLEAN AND DISINFECT WATER DISTRIBUTION PIPING SYSTEMS AND PARTS OF EXISTING SYSTEMS THAT HAVE BEEN ALTERNATELY EXTENDED OR REPAIRED BEFORE USE. USE PURGING AND DISINFECTING PROCEDURE PRESCRIBED BY AUTHORITIES HAVING JURISDICTION OR USE PROCEDURE PRESCRIBED BY AUTHORITIES HAVING JURISDICTION OR USE PROCEDURE DESCRIBED IN AWWA C651.
18. PVC GRAVITY FLOW SEWER PIPE AND FITTINGS 15 INCH AND SMALLER IN DIAMETER SHALL BE SDR35 PIPE WITH BELL AND SPIGOT GASKET JOINT THAT COMPLIES WITH THE REQUIREMENTS OF ASTM D3034.

3

OF 9

GENERAL NOTES

NEPTUNE BEACH SENIOR COMMUNITY CENTER

NEPTUNE BEACH, FLORIDA

PREPARED FOR:

CITY OF NEPTUNE BEACH

DRAWING BY:

PET

DESIGN BY:

PET

CHECKED BY:

JWC

DATE:

12/09/2021

PROJECT #:

2116

GENERAL NOTES		REVISIONS	
#	DATE	DESCRIPTION	
1	1/28/2022	REVISED PER CLIENT COMMENTS	
2	4/18/2022	REVISED PER SURVOW COMMENTS	

MAVERICK ENGINEERING

10 WILLOW WINDS PARKWAY

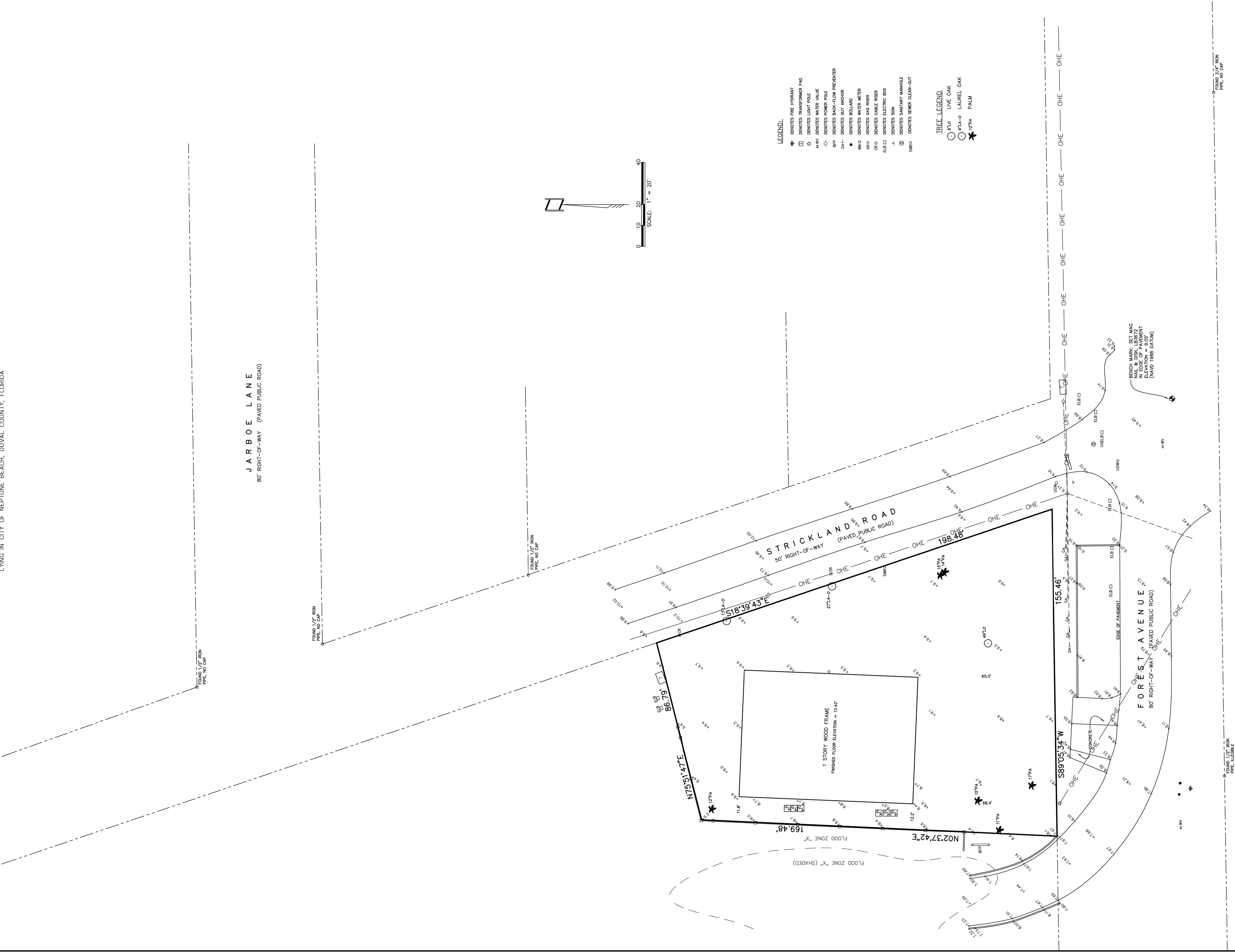
ST. JOHNS, FLORIDA 32259

(904) 655-6687

JEFFREY N. CALLOWAY, P.E.
 CAM34646 PEF170838

MAP SHOWING SURVEY OF

BEING A PORTION OF B DE CASTRO Y FERRE GRANT, SECTION 38,
TOWNSHIP 2 SOUTH, RANGE 29 EAST,
LYING IN CITY OF NEPTUNE BEACH, DUVAL COUNTY, FLORIDA



NOTES:
1. THIS IS A TOPOGRAPHIC SURVEY WITH TREE LOCATION.
2. BEARINGS BASED ON FLORIDA STATE PLANE EAST ZONE
3. BENCHMARK USED IS A SET MAG NAIL & DISK, LB 3672,
ELEVATION = 9.05' (N.A.V.D. 1988), ESTABLISHED BY GPS
OBSERVATIONS USING SPECTRA PRECISION SP 80.

THE PROPERTY DESCRIBED HEREON LIES IN FLOOD ZONE
"X" (AREA OF MINIMAL FLOOD HAZARD) AND FLOOD
ZONE "X" (SHADED, AREA OF 0.2% ANNUAL CHANCE OF
FLOOD HAZARD) AS DETERMINED FROM THE FLOOD
INSURANCE RATE MAP (FIRM) FOR DUVAL COUNTY, FLORIDA,
NOVEMBER 2, 2018 FOR DUVAL COUNTY, FLORIDA.

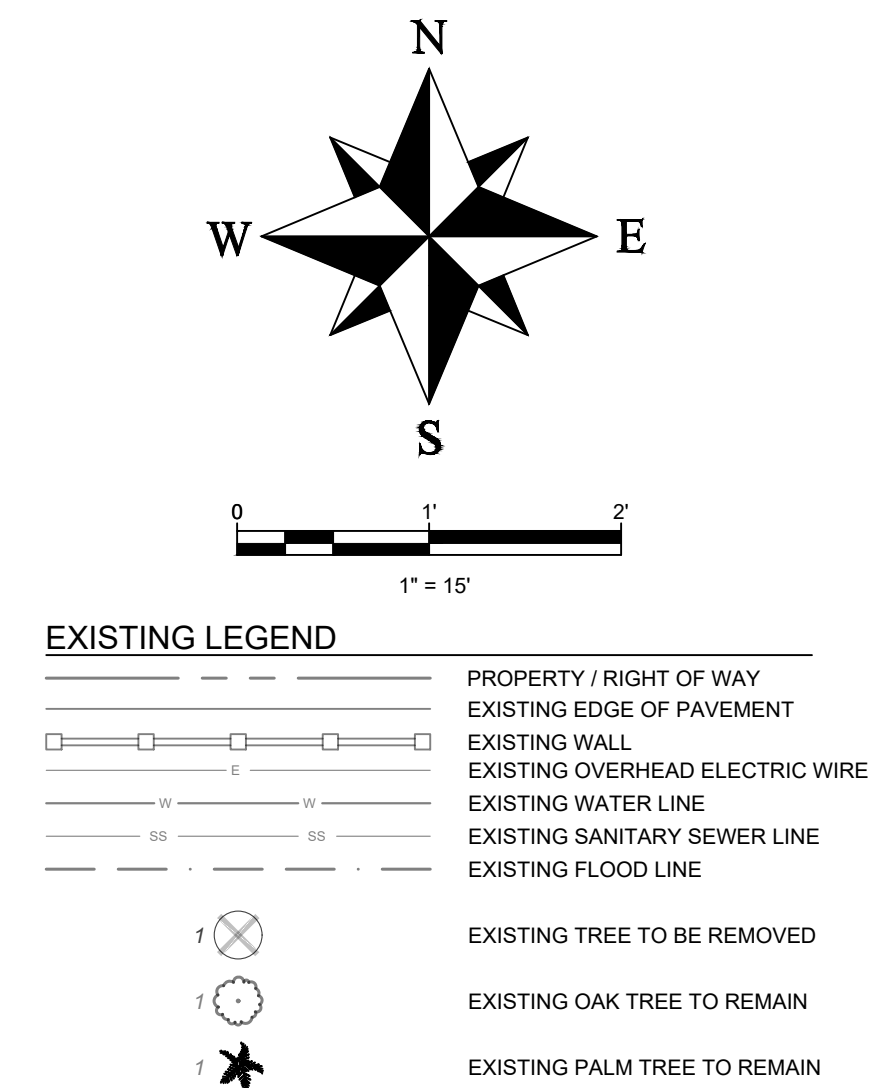
"NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL
SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER."

THIS SURVEY IS CERTIFIED TO:
NEPTUNE BEACH SENIOR CENTER, CITY OF NEPTUNE BEACH

JASON D. BOATWRIGHT, P.S.M.
FLORIDA LICENSED SURVEYOR and MAPPER No. LS 7292
FLORIDA LICENSED SURVEYING & MAPPING BUSINESS No. LB 3672

1500 ROBERTS DRIVE JACKSONVILLE, FLORIDA 32216
BOATWRIGHT LAND SURVEYORS, inc. (904)241-8550

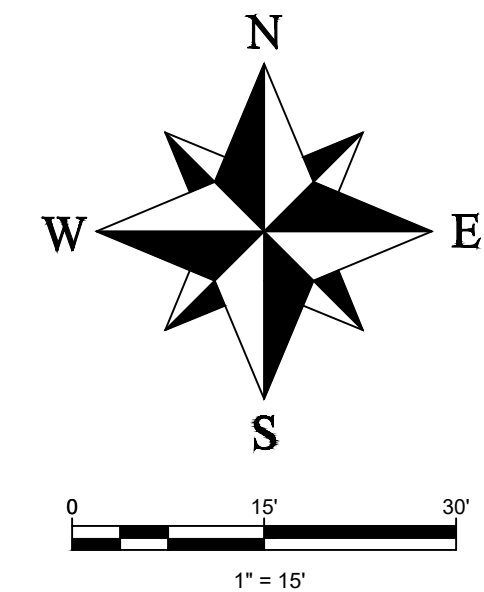
DATE: 11/11/2024 SHEET 1 OF 1 (904)241-8550



PROPOSED SILT FENCE
PROPOSED TREE PROTECTION FENCE

HATCH LEGEND	
	DEMOLISH

1. EXISTING FEATURES SHOWN PER SURVEY PROVIDED BY BOWTHAIGHT LAND SURVEYS, INC., AND PER CITY OF NEPTUNE BACK HISTORICAL RECORDS, CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING AND REMOVING FEATURES PRIOR TO CONSTRUCTION COMMENCEMENT AND NOTIFY ENGINEER OF RECORD IF DISCREPANCIES ARE DISCOVERED.
2. CONTRACTOR SHALL ADHERE TO ALL CITY OF NEPTUNE BACK EROSION AND SEDIMENTATION CONTROL MEASURES.
3. EXISTING FEATURES SHOWN SHALL REMAIN IN PLACE AND UNHARMED UNLESS OTHERWISE DETAILED IN THESE PLANS.
4. ANY DAMAGED OR REMOVED SIGNAGE DURING CONSTRUCTION ACTIVITIES SHALL BE REINSTALLED OR REPLACED PER CURRENT FDOT DESIGN STANDARDS.
5. CONTRACTOR TO COORDINATE WITH CITY OF NEPTUNE BEACH FOR PLACEMENT OF SIGNAGE AND SIGNAGE FOR CONSTRUCTION ENTRANCE DETAIL, SEE SHEET 7.



EXISTING LEGEND

	PROPERTY / RIGHT OF WAY
	EXISTING EDGE OF PAVEMENT
	EXISTING WALL
	EXISTING OVERHEAD ELECTRIC WIRE
	EXISTING WATER LINE
	EXISTING SANITARY SEWER LINE
	EXISTING FIRE LINE

HATCH LEGEND	
	CONCRETE
	PERVIOUS PAVERS
	WOOD
	BUILDINGS
	SWALE

SITE DATA TABLE		
TOTAL PROJECT AREA	21,735 SF	0.50 AC
EXISTING BUILDING		4,980 SF
PROPOSED OVERHANG		2,582 SF
PROPOSED PAVEMENT		305 SF
PROPOSED CONCRETE		803 SF
TOTAL IMPERVIOUS AREA		8,670 SF
TOTAL PERVIOUS AREA		13,065 SF
TOTAL IMPERVIOUS %		40%
TOTAL PERVIOUS %		60%
OPEN SPACE		13,065 SF
FLOOR AREA		2,582 SF
FLOOR AREA RATIO (FAR)		12%
ZONING		NR-1
PARCEL NUMBER(S)		177490-0000
FLOOD ZONE		X

PARKING CALCULATIONS			
GROSS FLOOR AREA	=	1 SPACE PER	250 SF
GROSS FLOOR AREA	=	4,980 SF	20 SPACES
TOTAL REQUIRED	=	20 SPACES	
TOTAL PROVIDED	=	24 SPACES	
ADA REQUIRED	=	1 SPACES	
ADA PROVIDED	=	2 SPACES	

CONNECTION TO EXISTING PAVEMENT DETAIL
N.T.S.

6" HEADER CURB DETAIL
N.T.S.

TYPICAL PAVER SECTION
N.T.S.

EARTHEN OVERFLOW WEIR WITH RIP RAP
N.T.S.

NOTE:
ALL NEW CONCRETE RAMP SURFACES TO RECEIVE TRUNCATED DOME
MAT UNLESS OTHERWISE NOTED

STOP BAR DETAIL
N.T.S.

CONCRETE WHEELSTOP DETAIL
N.T.S.

SWALE DETAIL
N.T.S.

RIBBON CURB DETAIL
N.T.S.

CONSTRUCTION ENTRANCE DETAIL
N.T.S.

STOP SIGN DETAIL
N.T.S.

DIMENSION & TYPE			
CONCRETE SECTION	A	B	C
PARKING AREAS	5"	N/A	SEE NOTE 1
LOADING/DUMPSTER/DRIVEWAYS	6"	N/A	SEE NOTE 1
PERVIOUS PAVEMENT	6"	N/A	SEE NOTE 2

CONCRETE PAVEMENT SECTION
N.T.S.

TREE PRO

HANDICAP PARKING SIGN DETAIL
N.T.S.

NOTE:
USE 36" FDOT APPROVED FABRIC
USE WOOD OR STEEL POSTS

SILT FENCE DETAIL
N.T.S.

ON DETAIL

* IN SOME CASES WHERE SIDEWALK IS FLUSH WITH PAVEMENT, A DETECTABLE WARNING SURFACE MAY BE APPLIED, SEE PLANS FOR LOCATIONS.

CONSTRUCTION JOINT

PARKING STALL DETAIL
N.T.S.

SEE PLAN

PROJECT: NEPTUNE BEACH SENIOR COMMUNITY CENTER

STORM WATER POLLUTION PREVENTION PLAN
INSPECTION AND MAINTENANCE REPORT FORM
TO BE COMPLETED EVERY 7 DAYS AND WITHIN 24 HOURS OF
A RAINFALL EVENT OF 0.25 INCHES OR MORE

INSPECTOR: _____ DATE: _____

INSPECTOR'S QUALIFICATIONS:

DAYS SINCE LAST RAINFALL: _____ AMOUNT OF LAST RAINFALL _____ INCHES

STABILIZATION MEASURES

INSPECTION AREA (DESCRIPTION OF LOCATION)	DATE SINCE LAST DISTURBED	DATE OF NEXT DISTURBANCE	STABILIZED ? (YES/NO)	STABILIZED WITH	CONDITION

STABILIZATION REQUIRED:

TO BE PERFORMED BY: _____ ON OR BEFORE: _____

PAGE 1 OF 4

PROJECT: NEPTUNE BEACH SENIOR COMMUNITY CENTER

STORM WATER POLLUTION PREVENTION PLAN
INSPECTION AND MAINTENANCE REPORT FORM
SEDIMENT BASIN

DEPTH OF SEDIMENT IN BASIN	DEPTH OF SEDIMENT SIDE BASIN	ANY EVIDENCE OF OVERTOPPING OF THE EMBANKMENT ?	CONDITION OF OUTFALL FROM SEDIMENT BASIN

MAINTENANCE REQUIRED FOR SEDIMENT BASIN:

TO BE PERFORMED BY: _____ ON OR BEFORE: _____

OTHER CONTROLS
STABILIZED CONSTRUCTION ENTRANCE

DOES MUCH SEDIMENT GET TRACKED ON TO ROAD ?	IS THE GRAVEL CLEAN OR IS IT FILLED WITH SEDIMENT?	DOES ALL TRAFFIC USE THE STABILIZED ENTRANCE TO LEAVE THE SITE ?	IS THE CULVERT BENEATH THE ENTRANCE WORKING? (IF APPLICABLE)

MAINTENANCE REQUIRED FOR STABILIZED CONSTRUCTION ENTRANCE:

TO BE PERFORMED BY: _____ ON OR BEFORE: _____

PAGE 3 OF 4

PROJECT: NEPTUNE BEACH SENIOR COMMUNITY CENTER

STORM WATER POLLUTION PREVENTION PLAN
INSPECTION AND MAINTENANCE REPORT FORM

STRUCTURAL CONTROLS

DATE: _____

EARTH DIKES/SWALES

DIKE OR SWALE	FROM	TO	IS DIKE/SWALE STABILIZED ?	IS THERE EVIDENCE OF WASHOUT OR OVERTOPPING

MAINTENANCE REQUIRED FOR EARTH DIKE/SWALE:

TO BE PERFORMED BY: _____ ON OR BEFORE: _____

CATCH BASIN/CURB INLET/OUTFALL TURBIDITY CONTROLS

STRUCTURE/ OUTFALL	ARE TURBIDITY CONTROLS IN PLACE	ANY EVIDENCE OF CLOGGING/WASHOUT OR BYPASSING ?	ARE TURBIDITY CONTROLS IN NEED OF REPLACING	DOES SILT NEED TO BE REMOVED FROM AROUND CONTROL

MAINTENANCE REQUIRED FOR CATCH BASIN/CURB INLETS/OUTFALLS TURBIDITY CONTROLS:

TO BE PERFORMED BY: _____ ON OR BEFORE: _____

PAGE 2 OF 4

PROJECT: NEPTUNE BEACH SENIOR COMMUNITY CENTER

STORM WATER POLLUTION PREVENTION PLAN
INSPECTION AND MAINTENANCE REPORT FORM

CHANGES REQUIRED TO THE POLLUTION PREVENTION PLAN:

REASONS FOR CHANGES:

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL
ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN
ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED
PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION
SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO
MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR
GATHERING THE INFORMATION, THE INFORMATION
SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE,
ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT
PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE
POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

SIGNATURE: _____

DATE: _____

NOTE TO CONTRACTOR:

PAGE 4 OF 4

THIS IS THE CONTRACTORS CERTIFICATION REQUIRED BY THE EPA'S NATIONAL POLLUTION DISCHARGE ELIMINATION
SYSTEM (NPDES). STORM WATER POLLUTION PREVENTION PLAN FOR CONSTRUCTION SITES OVER 5 ACRES. THIS
CERTIFICATION MUST BE COMPLETED WEEKLY AND AFTER EVERY RAINFALL EVENT OVER 0.25 INCHES.

CONTRACTOR CERTIFICATION

NEPTUNE BEACH SENIOR COMMUNITY CENTER
NEPTUNE BEACH, FLORIDA
PREPARED FOR:
CITY OF NEPTUNE BEACH

REVISIONS

#	DATE	DESCRIPTION
1	1/28/2022	REVISED PER CLIENT COMMENTS
2	4/18/2022	REVISED PER SJRWMD COMMENTS

DRAWING BY: PET
DESIGN BY: PET
CHECKED BY: JWC
DATE: 12/08/2021
PROJECT #: 2116



MAVERICK ENGINEERING
10 WILLOW WINDS PARKWAY
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(904) 655-6687

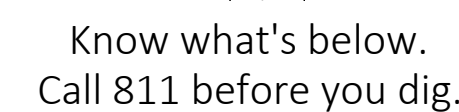
JEREMY W. CALLOWAY, P.E.
CA#45468 PE#70938



Les Thomas Architect, Inc.
Architecture
 Project Manager: Les Thomas | lesthasarchitect@gmail.com
 32 Cordova Street, St. Augustine, FL 32084
 Ph: 904.824.9508

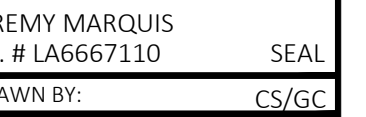
Planning and Community Development

Sheet List Table			
Sheet Number	Sheet Title	Issue Date	Revision Date
--	COVER SHEET	02/17/2022	
L-2.1	HARDSCAPE PLAN	02/17/2022	
L-2.2	HARDSCAPE DETAILS	02/17/2022	
L-3.1	LANDSCAPE PLAN	02/17/2022	
L-3.2	LANDSCAPE NOTES	02/17/2022	
L-3.3	LANDSCAPE DETAILS	02/17/2022	
L-4.1	IRRIGATION PLAN	02/17/2022	
L-4.2	IRRIGATION DETAILS	02/17/2022	
L-4.3	IRRIGATION DETAILS	02/17/2022	
L-4.4	IRRIGATION DETAILS	02/17/2022	
L-4.5	IRRIGATION DETAILS	02/17/2022	



PLEASE REFERENCE CIVIL AND
ARCHITECTURAL PLANS FOR
ADDITIONAL INFORMATION.

NOT FOR CONSTRUCTION.
FOR PERMIT REVIEW AND
BIDDING PURPOSES ONLY.



NEPTUNE BEACH SENIOR COMMUNITY CENTER

NEPTUNE BEACH, FLORIDA

COVER STORY

[illegible]

SIZE:	ANSI D
PRIME PROJECT #:	
ML+H PROJECT #:	21.45.0

AWING NO.: L0.0

Thursday, February 17, 2022 1:53 PM

G:_Projects\21 Projects\21.45.0 Neptune Community Center\05 CAD\21.45.00_HARDSCAPE.CS.dwg

EXISTING NEPTUNE BEACH PUBLIC
WORKS FACILITY

NEW SENIOR COMMUNITY
CENTER BUILDING

STRICKLAND ROAD

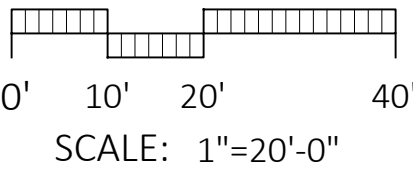
FOREST AVENUE

EXISTING LIVE OAK
TO REMAIN

OVERHEAD UTILITIES, TYP.

REFERENCE NOTES SCHEDULE

SYMBOL	HARDSCAPE DESCRIPTION MANUFACTURER/SUPPLIER	QTY	DETAIL	DESCRIPTION	FINISH/COLOR	
HS-102	CIP COQUINA CONCRETE	1,136 SF				
HS-103	PAVER BANDING COURSE	89 SF		4"x8" HEADER COURSE	SILVER SAM	ARTISTIC PAVER
HS-104	AGGREGATE - 89 ROCK	2,021 SF				
HS-105	PARKING CONCRETE	641 SF				
HS-106	CONCRETE PARKING BORDER	384 SF				
HS-107	PARKING STRIPE - PERMEABLE PAVERS	228 SF		8"x8" SF RIMA	SAND DUNE	TREMRON
HS-108	PARKING - PERMEABLE PAVERS	4,333 SF		8"x8" SF RIMA	GRANITE	TREMRON
HS-109	ANNODIZED ALUMINUM EDGING	172 LF		4"	SILVER	PERMALOC



Marquis Latimer + Halback, Inc.
34 Cordova Street, Suite A
St. Augustine, FL 32084

Ph 904.825.6747 www.halback.com
LA6667110 Qualifier

JEREMY MARQUIS
LIC. # LA6667110 SEAL
DRAWN BY: CS/GC

NEPTUNE BEACH COMMUNITY CENTER

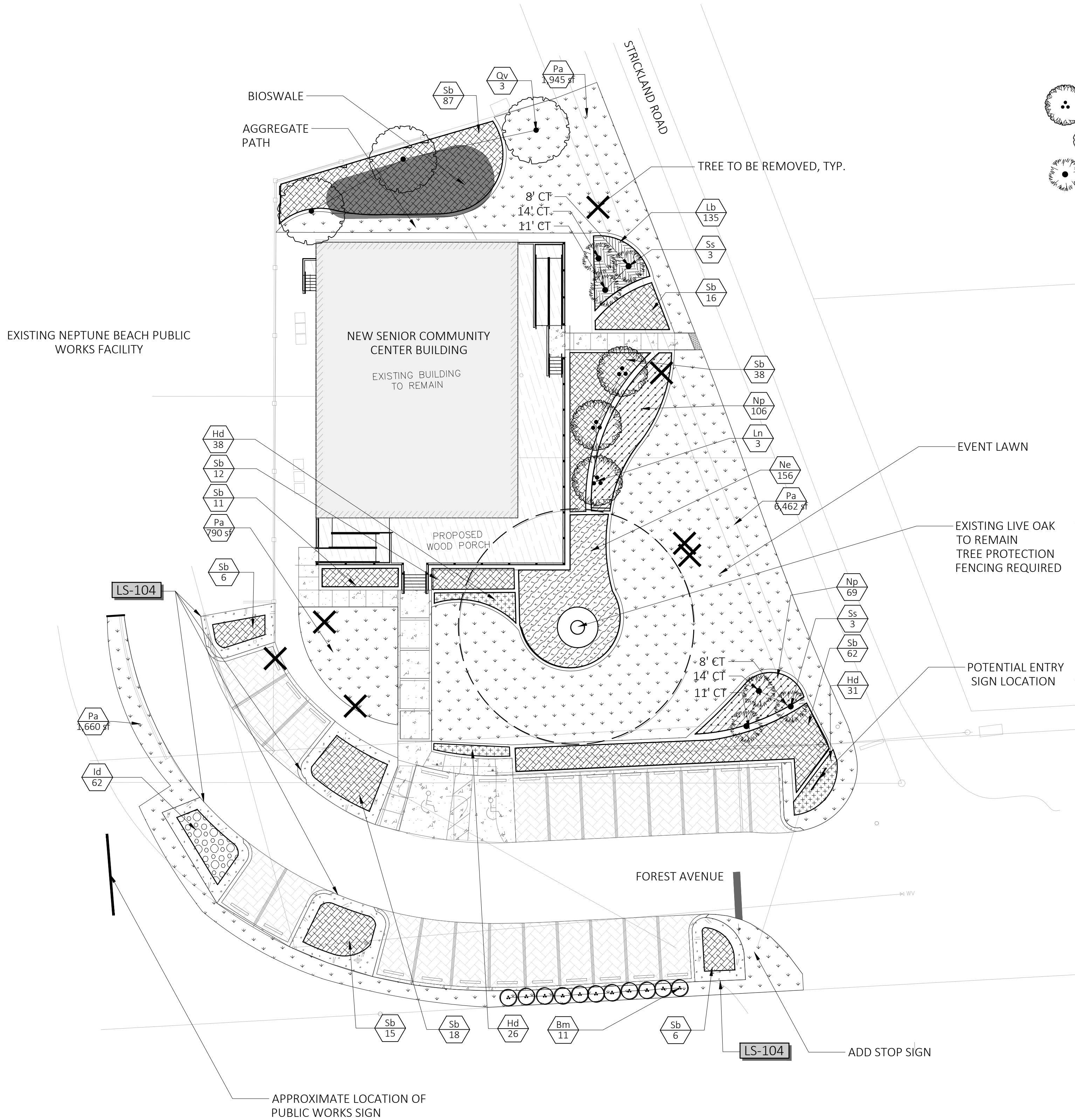
NEPTUNE BEACH, FLORIDA

HARDSCAPE PLAN

	PERMIT+BID SET	02/17/22
	30% DD REVIEW	12/23/21
YM	DESCRIPTION	DATE

SIZE: ANSI D
PRIME PROJECT #:
ML+H PROJECT #: 21.45.0

DRAWING NO.:
L-2.1

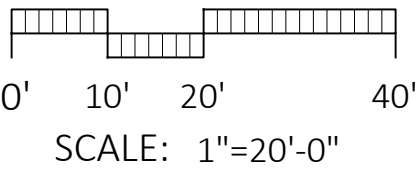
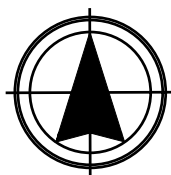


PLANT SCHEDULE

	TREES	CODE	BOTANICAL / COMMON NAME	CONT	CAL	HEIGHT	QTY	
	Bm	BAMBUSA MALINGENSIS / SEABREEZE BAMBOO	25 GAL.	MIN. 12-15 CANES	12'-14'	11		
	Ln	LAGERSTROEMIA INDICA X FAUREI 'NATCHEZ' / NATCHEZ CRAPE MYRTLE	B&B, ROOT PLUS GROWERS	MULTI, 5 TRUNKS - 6-7" CALIPER	12'-14' HT	3		
	Qv	QUERCUS VIRGINIANA 'FBQV22' TM / BOARDWALK SOUTHERN LIVE OAK	B&B, ROOT PLUS GROWERS	4"	14' - 16'	3		
	Ss	SABAL PALMETTO / CABBAGE PALMETTO	B&B; REGENERATED		8'-14' CT	6		
SHRUB AREAS								
		CODE	BOTANICAL / COMMON NAME	CONT	HEIGHT	SPREAD	SPACING	QTY
	Hd	HELIANTHUS DEBILIS / DUNE SUNFLOWER	1 GAL.	8"	12"	24" o.c.	71	
	Id	ILEX VOMITORIA 'SCHILLINGS DWARF' / SCHILLINGS DWARF YAUAPON HOLLY	3 GAL.	12"	12"	21" o.c.	62	
	Lb	LIRIOPE MUSCARI 'BIG BLUE' / BIG BLUE LILYTURF	3 GAL.	12"	12"	18" o.c.	102	
	Ne	NEPHROLEPIS EXALTATA / BOSTON FERN	3 GAL.	16"	16"	28" o.c.	156	
	Np	NERIUM OLEANDER 'PETITE PINK' / PETITE PINK OLEANDER	7 GAL.	18"	18"	28" o.c.	141	
	Sb	SPARTINA BAKERI / SAND CORDGRASS	1 GAL.	24"	16"	50" o.c.	222	
	GROUND COVERS							
		CODE	BOTANICAL / COMMON NAME	SPACING	QTY			
	Pa	PASPALUM NOTATUM 'ARGENTINE' / ARGENTINE BAHIA GRASS			11,008 SF			

REFERENCE NOTES SCHEDULE

SYMBOL	LANDSCAPE DESCRIPTION	QTY	DETAIL
LS-104	MULCH	995 SF	



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LA6667110 Qualifier

JEREMY MARQUIS
LIC. # LA6667110
DRAWN BY: CS/GC

NEPTUNE BEACH SENIOR COMMUNITY CENTER

NEPTUNE BEACH, FLORIDA

LANDSCAPE PLAN AND SCHEDULE

	PERMIT+BID SET	02/17
	30% DD REVIEW	12/23
YM	DESCRIPTION	DATE

SIZE: ANSI D
PRIME PROJECT #:
ML+H PROJECT #: 21.45.0

DRAWING NO.:

L-3.1

GENERAL NOTES

1. CONTRACTOR SHALL PROVIDE LANDSCAPE BED PREPARATION, INCLUDING REMOVAL AND DISPOSAL OF EXISTING LANDSCAPE AND TREES (TREES TO REMAIN ARE NOTED ON PLAN). CONTRACTOR SHALL PULL ANY APPLICABLE PERMITS, SUCH AS TREE REMOVAL PERMIT.
2. SPRAY DOWN BASE OF BUILDING TO REMOVE SOIL FROM CONSTRUCTION ACTIVITIES.
3. PLANT MATERIAL SHALL CONFORM TO THE STANDARDS FOR GRADE #1 OR BETTER AS GIVEN IN THE LATEST "GRADES AND STANDARDS FOR NURSERY PLANTS, PARTS I AND II," FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES . PLANT SIZE IS TO TAKE PRECEDENCE OVER CONTAINER SIZE.
4. ALL TREES AND SHRUBS ARE TO BE POSITIONED VERTICALLY REGARDLESS OF THE SLOPE OF THE GROUND IN WHICH THEY ARE PLANTED. BERMS ARE TO BE CONSTRUCTED AT RIGHT ANGLES TO THE TREE OR SHRUB OR IN A MANNER IN WHICH THEY WILL MOST EFFECTIVELY SERVE THE PURPOSE OF RETAINING WATER AT THE BASE OF THE PLANT.
5. WEEDS ARE TO BE ADEQUATELY AND PROPERLY TREATED AND REMOVED PRIOR TO LANDSCAPE INSTALLATION. ALL SOIL AMENDMENTS SHOULD BE CERTIFIED AS WEED-FREE FROM THE SUPPLIER.
6. LANDSCAPE MATERIAL IS TO BE MAINTAINED BY THE LANDSCAPE CONTRACTOR (INCLUDING MOWING, PRUNING, AND WEEDING) UNTIL PLANTING IS APPROVED BY THE LANDSCAPE ARCHITECT. THE LANDSCAPE CONTRACTOR MUST PROVIDE: (A.) A WARRANTY ON ALL TREES AND PALMS FOR A PERIOD OF (12) TWELVE MONTHS. (B.) A WARRANTY ON ALL SHRUBS AND GROUNDCOVERS FOR A PERIOD OF (12) TWELVE MONTHS. (C.) GUIDELINES FOR PROPER MAINTENANCE.
7. TREES SHALL NOT BE PLANTED CLOSER THAN 7.5' FROM THE CENTERLINE OF UNDERGROUND UTILITIES; ADJUST IN THE FIELD IF NEEDED.
8. BALLED AND BURLAPPED STRAPPING WIRE, AND ANY SYNTHETIC MATERIAL, SHALL BE REMOVED PRIOR TO FINAL INSPECTION. WIRE BASKETS SHOULD BE PULLED AWAY FROM THE TRUNK.
9. CONTRACTOR SHALL SCARIFY SOIL TO A DEPTH OF 12" IN AREAS WITH COMPACTED SOIL. CONTRACTOR SHALL EXCAVATE AND DISPOSE OF ALL STONE, DEBRIS AND BASE MATERIAL FROM PREVIOUS PARKING AREAS. BACK FILL WITH TOP SOIL WITH HIGH ORGANIC CONTENT AND CERTIFIED WEED FREE.

COORDINATION WITH PROJECT WORK

1. THE CONTRACTOR SHALL COORDINATE WITH ALL OTHER WORK THAT MAY IMPACT THE COMPLETION OF THE WORK.
2. PRIOR TO THE START OF WORK, PREPARE A DETAILED SCHEDULE OF THE WORK FOR COORDINATION WITH OTHER TRADES.
3. COORDINATE THE RELOCATION OF ANY IRRIGATION LINES, HEADS OR THE CONDUITS OF OTHER UTILITY LINES THAT ARE IN CONFLICT WITH TREE LOCATIONS. ROOT BALLS SHALL NOT BE ALTERED TO FIT AROUND LINES. NOTIFY THE LANDSCAPE ARCHITECT OF ANY CONFLICTS ENCOUNTERED.

LAYOUT AND PLANTING SEQUENCE

1. RELATIVE POSITIONS OF ALL PLANTS AND TREES ARE SUBJECT TO APPROVAL OF THE LANDSCAPE ARCHITECT.
2. NOTIFY THE LANDSCAPE ARCHITECT, ONE (1) WEEK PRIOR TO LAYOUT. LAYOUT ALL INDIVIDUAL TREE AND SHRUB LOCATIONS. PLACE PLANTS ABOVE SURFACE AT PLANTING LOCATION OR TREAT A LABELED STAKE AT PLANTING LOCATION. LAYOUT BED LINES WITH PAINT FOR THE LANDSCAPE ARCHITECT'S APPROVAL. SECURE THE LANDSCAPE ARCHITECT'S ACCEPTANCE BEFORE DIGGING AND START OF PLANTING WORK.

PLANTING GUIDELINES: TREES, SHRUBS & GROUNDCOVER

1. ASSURE THAT SOIL MOISTURE IS WITHIN THE REQUIRED LEVELS PRIOR TO PLANTING. IRRIGATION, IF REQUIRED, SHALL NOT BE APPLIED LESS THAN 12 HOURS PRIOR TO PLANTING TO AVOID PLANTING IN MUDDY SOILS.
2. ASSURE THAT SOIL GRADES IN THE BEDS ARE SMOOTH AND AS SHOWN ON THE PLANS.
3. PLANTS SHALL BE PLANTED IN EVEN, TRIANGULARLY SPACED ROWS, AT THE INTERVALS CALLED OUT FOR ON THE DRAWINGS, UNLESS OTHERWISE NOTED.
4. DIG PLANTING HOLES TWO TIMES (2x) THE WIDTH OF THE ROOT BALL AND BACK FILL WITH PLANTING MIX. SEE "SOIL MIX" GUIDELINES.
5. PRESS SOIL TO BRING THE ROOT SYSTEM IN CONTACT WITH THE SOIL.
6. SPREAD ANY EXCESS SOIL AROUND IN THE SPACES BETWEEN PLANTS.
7. APPLY MULCH TO THE BED BEING SURE NOT TO COVER THE TOPS OF THE PLANTS WITH OR THE TOPS OF THE ROOT BALL WITH MULCH.
8. WATER EACH PLANTING AREA AS SOON AS THE PLANTING IS COMPLETED. APPLY ADDITIONAL WATER TO KEEP THE SOIL MOISTURE AT THE REQUIRED LEVELS. DO NOT OVER WATER.

PALM PLANTING

1. PALM TREES SHALL BE PLACED AT GRADE MAKING SURE NOT TO PLANT THE TREE ANY DEEPER IN THE GROUND THAN THE PALM TREES ORIGINALLY STOOD.
2. THE TREES SHALL BE PLACED WITH THEIR VERTICAL AXIS IN A PLUMB POSITION.
3. ALL BACKFILL SHALL BE NATIVE SOIL EXCEPT IN CASES WHERE PLANTING IN ROCK. WATER-SETTLE THE BACK FILL.
4. DO NOT COVER ROOT BALL WITH MULCH OR TOPSOIL.
5. PROVIDE A WATERING BERM AT EACH PALM. BERMS SHALL EXTEND A MINIMUM OF 18 INCHES OUT FROM THE TRUNK ALL AROUND AND SHALL BE A MINIMUM OF (6) INCHES HIGH.
6. REMOVE TWINE WHICH TIES FRONDS TOGETHER AFTER PLACING PALM IN PLANTING HOLE AND SECURING IT IN THE UPRIGHT POSITION.

PRUNING OF TREES AND SHRUBS

1. IF PRUNING OF EXISTING TREES OR PLANT MATERIAL IS REQUIRED THE CONTRACTOR SHALL ADHERE TO ANSI Z133.1 STANDARDS FOR TREE CARE AND INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA) BEST MANAGEMENT PRACTICES.

MULCHING OF PLANTS

1. SCHEDULE THE PLANTING TO OCCUR PRIOR TO APPLICATION OF THE MULCH. IF THE BED IS ALREADY MULCHED, PULL THE MULCH FROM AROUND THE HOLE AND PLANT INTO THE SOIL. DO NOT PLANT THE ROOT SYSTEM IN THE MULCH. PULL MULCH BACK SO IT IS NOT ON THE ROOT BALL SURFACE.
2. APPLY A MINIMUM OF 2-3 INCHES DEPTH OF PINE STRAW MULCH BEFORE SETTLEMENT, COVERING THE ENTIRE PLANTING BED AREA. INSTALL NO MORE THAN 1 INCH OF MULCH OVER THE TOP OF THE ROOT BALLS OF ALL PLANTS. TAPER TO 2 INCHES WHEN ABUTTING PAVEMENT.
3. FOR TREES PLANTED IN LAWN AREAS THE MULCH SHALL EXTEND TO A 5 FOOT RADIUS AROUND THE TREE OR TO THE EXTENT INDICATED ON THE PLANS AND SPACED AT LEAST SIX INCHES AWAY FROM THE TREE TRUNK. MULCH TREES IN TURF AREAS PRIOR TO HYDROSEEDING.
4. LIFT ALL LEAVES, LOW HANGING STEMS AND OTHER GREEN PORTIONS OF SMALL PLANTS OUT OF THE MULCH IF COVERED.

SOIL MIX

- CONTRACTOR SHALL OBTAIN SOIL TESTING FOR THE PROJECT AREA TO DETERMINE AGRONOMIC SUITABILITY. RESULTS SHALL BE REVIEWED WITH THE OWNER AND LANDSCAPE ARCHITECT PRIOR TO PLANTING. AT A MINIMUM, SOIL TESTS SHOULD CONSIDER THE FOLLOWING
- PH / BUFFER PH
SALINITY
ORGANIC CONTENT / SAND CONTENT / SILT AND CLAY CONTENT (PERCENTAGE)
PHOSPHOROUS / POTASSIUM / CALCIUM / MAGNESIUM
AASHTO CLASSIFICATION
PERCOLATION RATE
- CONTRACTOR IS TO PROPOSE A SOIL MIX DESIGN BASED UPON RESULTS OF TESTING. THESE RECOMMENDATIONS SHOULD ALSO TAKE INTO ACCOUNT THE TEST RESULTS FROM SAMPLES AND TESTING DATA SHALL BE SUBMITTED AT THE SAME TIME. PROVIDE A SUBMITTAL OF A TWO GALLON SAMPLE WITH TESTING DATA THAT INCLUDES RECOMMENDATIONS FOR CHEMICAL ADDITIVES FOR THE TYPES OF PLANTS TO BE GROWN. . CONTRACTOR SHALL INCLUDE THE COST OF SOIL TESTING IN THE BASE BID AS WELL AS A APPLICATION OF SLOW RELEASE BALANCED FERTILIZER. CONTRACTOR WILL PROVIDE A PROPOSAL FOR ANY ADDITIONAL AMENDMENTS..
- AT THE TIME OF FINAL GRADING, ADD FERTILIZER OR ACIDIFIER IF REQUIRED TO THE PLANTING SOIL AT RATES RECOMMENDED BY THE TESTING RESULTS FOR THE PLANTS TO BE GROWN.



ML+H

Marquis Latimer + Halback, Inc.
34 Cordova Street, Suite A
St. Augustine, FL 32084

Ph 904.825.6747 www.halback.com
LA6667110 Qualifier

JEREMY MARQUIS
LIC. # LA6667110 SEAL
DRAWN BY: CS/GC

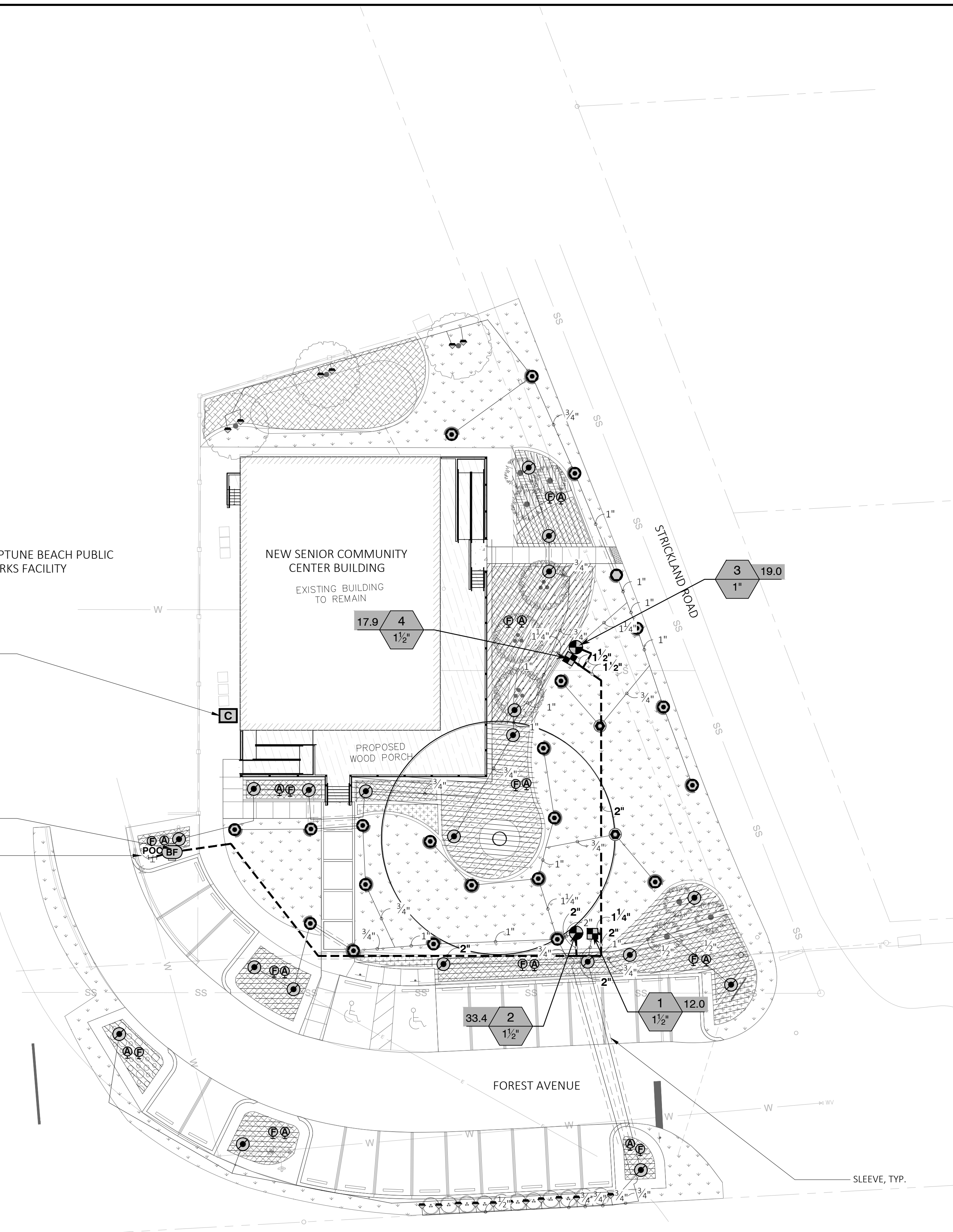
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NEPTUNE BEACH COMMUNITY CENTER
NEPTUNE BEACH, FLORIDA
LANDSCAPE NOTES

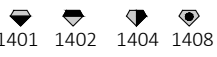
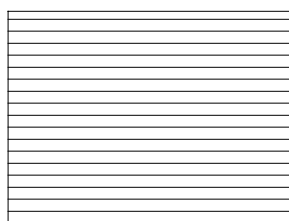
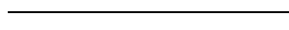
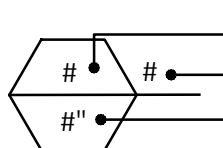
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PRIME PROJECT #:	
ML+H PROJECT #:	21.45.0
DRAWING NO.:	L-3.2



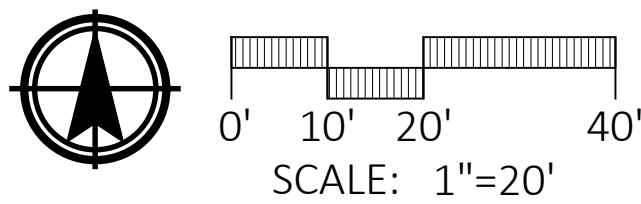


IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI
	RAIN BIRD R-VAN18 1804-SAM-P45 TURF ROTARY, 13'-18" 45-270 DEGREES AND 360 DEGREES. HAND ADJUSTABLE MULTI-STREAM ROTARY W/1800 TURF SPRAY BODY ON 4" POP-UP, WITH CHECK VALVE AND 45 PSI IN-STEM PRESSURE REGULATOR. 1/2" NPT FEMALE THREADED INLET.	1	45
	RAIN BIRD R-VAN24 1804-SAM-P45 TURF ROTARY, 17'-24" 45-270 DEGREES AND 360 DEGREES. HAND ADJUSTABLE MULTI-STREAM ROTARY W/1800 TURF SPRAY BODY ON 4" POP-UP, WITH CHECK VALVE AND 45 PSI IN-STEM PRESSURE REGULATOR. 1/2" NPT FEMALE THREADED INLET.	23	45
	RAIN BIRD 1804-1400 FLOOD 1401 FLOOD BUBBLER 4.0" POPUP	18	40
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI
	RAIN BIRD XC2-150-LCS HIGH FLOW CONTROL ZONE KIT, FOR LARGE COMMERCIAL DRIP ZONES. 1-1/2" PEB GLOBE VALVE WITH SINGLE 1-1/2" PRESSURE REGULATING 40PSI QUICK-CHECK BASKET FILTER. FLOW RANGE: 15-62 GPM.	2	
	PIPE TRANSITION POINT ABOVE GRADE PIPE TRANSITION POINT FROM PVC LATERAL TO DRIP TUBING WITH RISER TO ABOVE GRADE INSTALLATION.	20	
	RAIN BIRD MDCFCAP DRIPLINE FLUSH VALVE CAP IN COMPRESSION FITTING COUPLER.	11	
	RAIN BIRD ARV050 1/2" AIR RELIEF VALVE, MADE OF QUALITY RUST-PROOF MATERIALS, WITH A 6" DRIP VALVE BOX (SEB 7XB EMITTER BOX). USE WITH INSTALLATION BELOW SOIL. THE VALVE WILL ALLOW AIR TO ESCAPE THE PIPELINE, THUS PREVENTING WATER HAMMER OR BLOCKAGE.	11	
	AREA TO RECEIVE DRIPLINE RAIN BIRD XFD-06-18 XFD ON-SURFACE PRESSURE COMPENSATING LANDSCAPE DRIPLINE. 0.6 GPH EMITTERS AT 18" O.C. DRIPLINE LATERALS SPACED AT 18" APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN. UV RESISTANT. SPECIFY XF INSERT FITTINGS.	4,742 L.F.	40
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	
	RAIN BIRD PEB 1", 1-1/2", 2" PLASTIC INDUSTRIAL VALVES. LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION.	2	
	ZURN 375 1-1/2" REDUCED PRESSURE PRINCIPLE ASSEMBLY. SIZES 1/2", 3/4", 1", 1-1/4", 1-1/2", 2".	1	
	RAIN BIRD ESP4ME3 WITH (1) ESP-SM3 7 STATION, HYBRID MODULAR OUTDOOR CONTROLLER. FOR RESIDENTIAL OR LIGHT COMMERCIAL USE. LNK WIFI MODULE AND FLOW SENSOR READY.	1	
	IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21	1,498 L.F.	
	IRRIGATION MAINLINE: PVC SCHEDULE 40	265.0 L.F.	
	PIPE SLEEVE: PVC CLASS 200 TYPICAL PIPE SLEEVE FOR IRRIGATION PIPE. PIPE SLEEVE SIZE SHALL ALLOW FOR IRRIGATION PIPING AND THEIR RELATED COUPLINGS TO EASILY SLIDE THROUGH SLEEVING MATERIAL. EXTEND SLEEVES 18 INCHES BEYOND EDGES OF PAVING OR CONSTRUCTION.	188.9 L.F.	
	Valve Callout Valve Number Valve Flow Valve Size		

VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	GPM	HEADS	PIPE	WIRE	DESIGN PSI	PSI	PSI @ POC	PRECIP
2	RAIN BIRD XCZ-150-LCS	1-1/2"	AREA FOR DRIPLINE	14.41	1,802 L.F.	381.1	202.9	40	45.78	59.45	0.61 in/h
3	RAIN BIRD PEB	1-1/2"	TURF ROTARY	33.44	279.7 L.F.	507.8	193.1	40	46.23	59.78	0.58 in/h
4	RAIN BIRD PEB	1"	TURF ROTARY	19.04	15	361.9	293.0	45	50.38	64.98	0.36 in/h
	RAIN BIRD XCZ-150-LCS	1-1/2"	AREA FOR DRIPLINE	17.91	2,687 L.F.	247.3	287.6	40	43.71	58.25	0.53 in/h
	Common Wire						265.0				



SEE IRRIGATION SCHEDULE ON SHEET L-4.1 FOR SPECS.

ZURN Model 375 Reduced Pressure Principle Assembly

Application
Designed for installation on potable water lines to protect against both backsiphonage and backpressure of contaminated water into the potable water supply. The Model 375 provides protection where a potential health hazard exists. Ideal for use where lead-free* valves are required.

Standards Compliance
(Unless Otherwise Noted, Sizes 2 1/2" Thru 10")
• ASSE® Listed 1013
• IAPMO® Listed
• CSA® Certified B64.4 (2 1/2" thru 8")
• AWWA Compliant C511, and C550
• FM® Approved
• UL® Classified
• C-UL® Classified
• NYC MEA 49-01-M Vol 2
• Approved by the Foundation for Cross Connection Control and Hydraulic Research at the University of Southern California.
• Meets the requirements of NSF/ANSI/CAN 61*
*(0.25% MAX. WEIGHTED AVERAGE LEAD CONTENT)

Materials
Main valve body Ductile Iron ASTM A 536
Access covers Ductile Iron ASTM A 536
Coatings NSF Approved fusion epoxy finish
Internals Stainless steel, 300 Series
Fasteners Stainless Steel, 300 Series
Seal rings EPDM (FDA approved)
O-rings Buna Nitrile (FDA approved)
Springs Stainless Steel, 300 Series
Sensing line Stainless Steel, braided hose

Features
Sizes: 2 1/2", 3", 4", 6", 8", 10"
Maximum working water pressure 175 PSI
Maximum working water temperature 140°F
Hydrostatic test pressure 350 PSI
End connections (Grooved for steel pipe) AWWA C606
(Flanged) ANSI B16.42
Class 150

Attention:
Model 375 (flange body) and Model 375A (grooved body) have different lay lengths.

Dimensions & Weights (do not include pkg.)

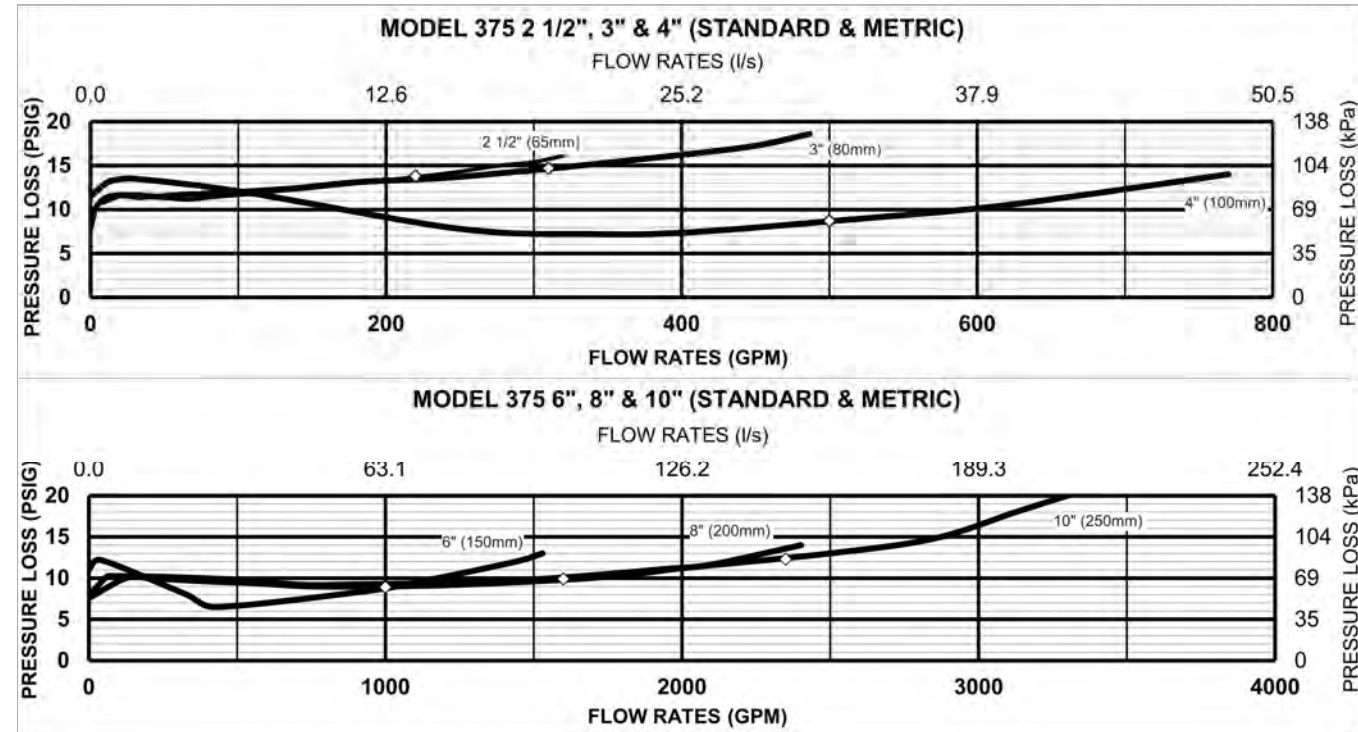
MODEL 375 SIZE	DIMENSIONS (approximate)										WEIGHT									
	A	WITH BUTTERFLY VALVES	B	LESS GATE VALVES	C	D	E	OS&Y OPEN	OS&Y CLOSED	NRS GATE	WITH BUTTERFLY VALVES	F	G	H	LESS SHUT-OFF VALVES	NRS GATE VALVES FLANGED	OS&Y GATE VALVES FLANGED	OS&Y GATE VALVES GROUNDED	BUTTERFLY VALVES GROUNDED	
2 1/2"	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2
3"	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2
4"	14 1/2	14 1/2	14 1/2	14 1/2	14 1/2	14 1/2	14 1/2	14 1/2	14 1/2	14 1/2	14 1/2	14 1/2	14 1/2	14 1/2	14 1/2	14 1/2	14 1/2	14 1/2	14 1/2	14 1/2
6"	18 1/2	18 1/2	18 1/2	18 1/2	18 1/2	18 1/2	18 1/2	18 1/2	18 1/2	18 1/2	18 1/2	18 1/2	18 1/2	18 1/2	18 1/2	18 1/2	18 1/2	18 1/2	18 1/2	18 1/2
8"	22 1/2	22 1/2	22 1/2	22 1/2	22 1/2	22 1/2	22 1/2	22 1/2	22 1/2	22 1/2	22 1/2	22 1/2	22 1/2	22 1/2	22 1/2	22 1/2	22 1/2	22 1/2	22 1/2	22 1/2
10"	26 1/2	26 1/2	26 1/2	26 1/2	26 1/2	26 1/2	26 1/2	26 1/2	26 1/2	26 1/2	26 1/2	26 1/2	26 1/2	26 1/2	26 1/2	26 1/2	26 1/2	26 1/2	26 1/2	26 1/2

Zurn Industries, LLC | Wilkins
1747 Commerce Way, Paso Robles, CA U.S.A. 93446 Ph: 855-663-9876, Fax 805-238-5766
In Canada | Zurn Industries Limited
7900 Goreway Drive, Unit 10, Brampton, Ontario L6T 5W6, 877-892-5216
www.zurn.com

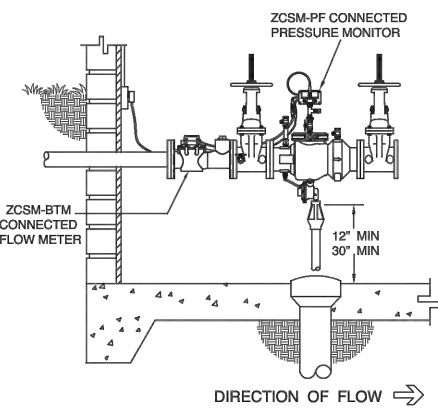
Rev. M
Date: 9/21
Document No. BF-375
Patent No. 5, 913, 351
Product No. Model 375

Page 1 of 2

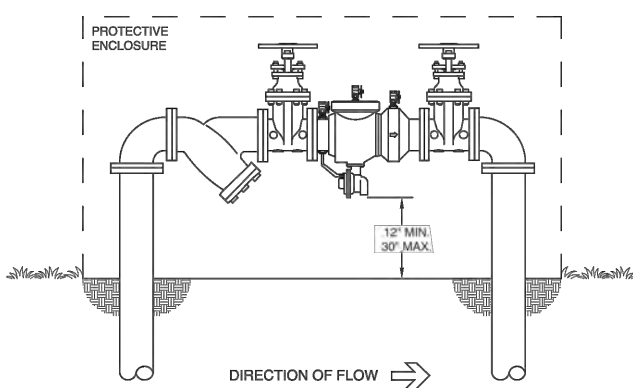
Flow Characteristics



Typical Installation
Local codes shall govern installation requirements. Unless otherwise specified, the assembly shall be mounted at a minimum of 12\" (305mm) and a maximum of 30\" (762mm) above adequate drains with sufficient side clearance for testing and maintenance. The installation shall be made so that no part of the unit can be submerged.



INDOOR INSTALLATION
(375OSY with ZCSPF Connected Pressure Monitor and ZCSPM Connected Flow Meter accessories)



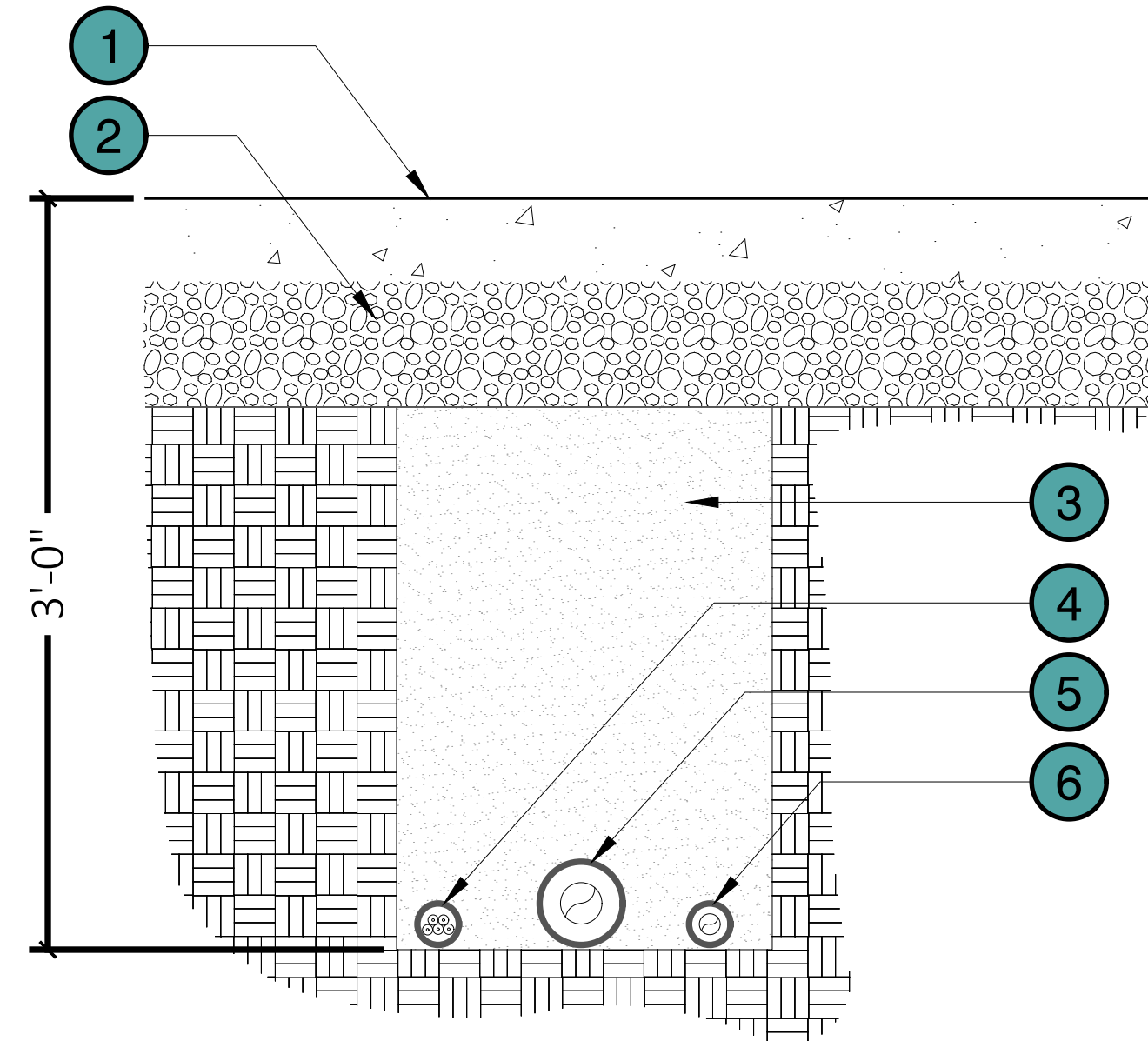
OUTDOOR INSTALLATION

Specifications

The Reduced Pressure Principle Backflow Prevention Assembly shall be certified to NSF/ANSI/CAN 61, ASSE® Listed 1013, and supplied with full port gate valves. The main body and access cover shall be epoxy coated ductile iron (ASTM A 536), the seat ring and check valve shall be NORYL™, the stem shall be stainless steel (ASTM A 276) and the seat disc elastomers shall be EPDM. The checks and the relief valve shall be accessible for maintenance without removing the device from the line. The Reduced Pressure Principle Backflow Prevention Assembly shall be a ZURN WILKINS Model 375.

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7900 Goreway Drive, Unit 10, Brampton, Ontario L6T 5W6, 877-892-5216
www.zurn.com

Page 2 of 2



NOTES:

- SEE IRRIGATION LEGEND FOR MAINLINE SIZE AND TYPE.
- ALL SLEEVES SHALL BE SCH. 40 PVC PIPE.
- ALL SLEEVES SHALL EXTEND 12" BEYOND THE EDGE OF PAVEMENT.
- END OF SLEEVES SHALL BE LOCATED WITH A WOODEN STAKE OR PVC PIPE. LOCATORS SHALL RUN CONTINUOUSLY FROM THE END OF THE SLEEVE TO FINISHED GRADE.



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LA6667110 Qualifier

JEREMY MARQUIS
LIC. # LA6667110 SEAL
DRAWN BY: CS/GC

NEPTUNE BEACH COMMUNITY CENTER

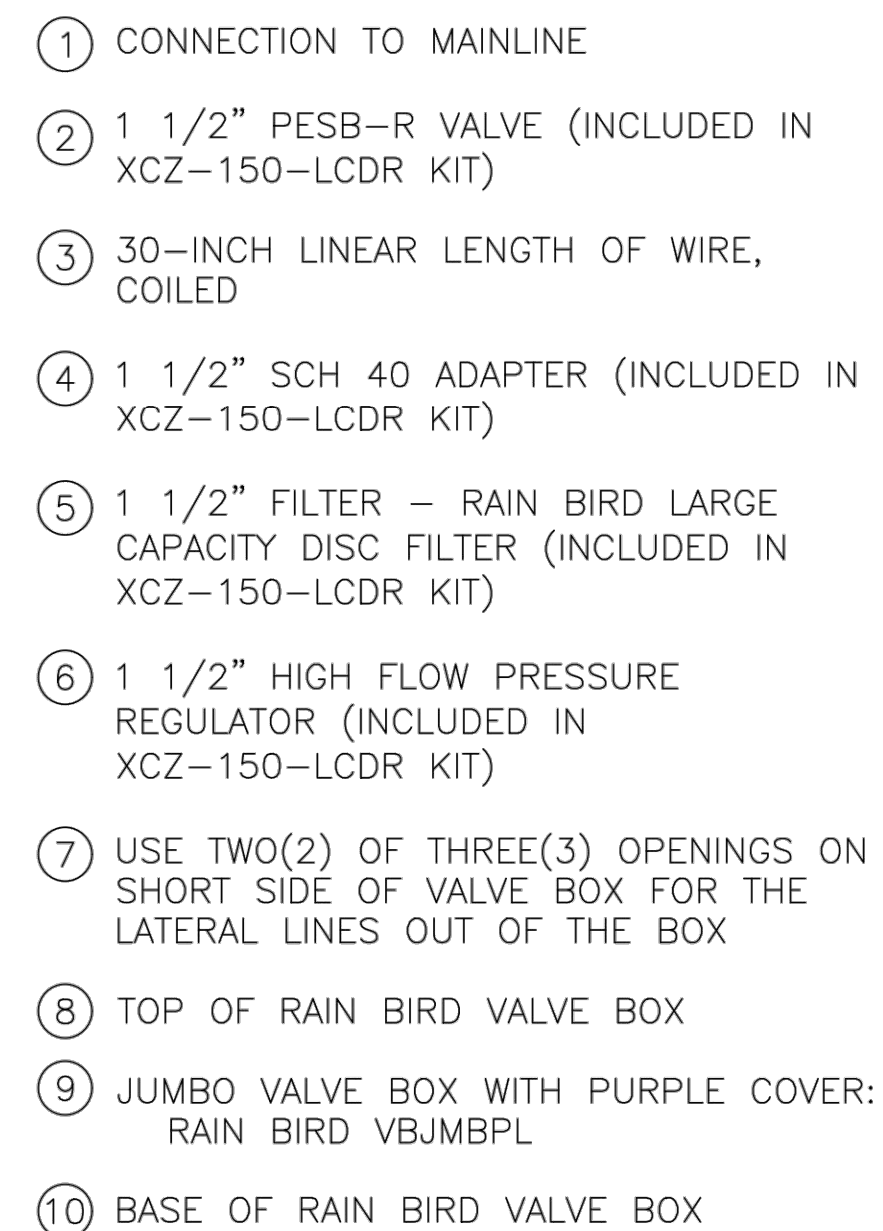
NEPTUNE BEACH, FLORIDA

IRRIGATION DETAILS

SYM	DESCRIPTION	DATE
	PERMIT+PID SET	02/17/22
	30% DO REVIEW	12/23/21
	PRIME PROJECT #:	
	ML+H PROJECT #:	21.45.0
	DRAWING NO.:	L-4.2

1" = 1'-0"

FX-IR-FX-AUXEQ-05

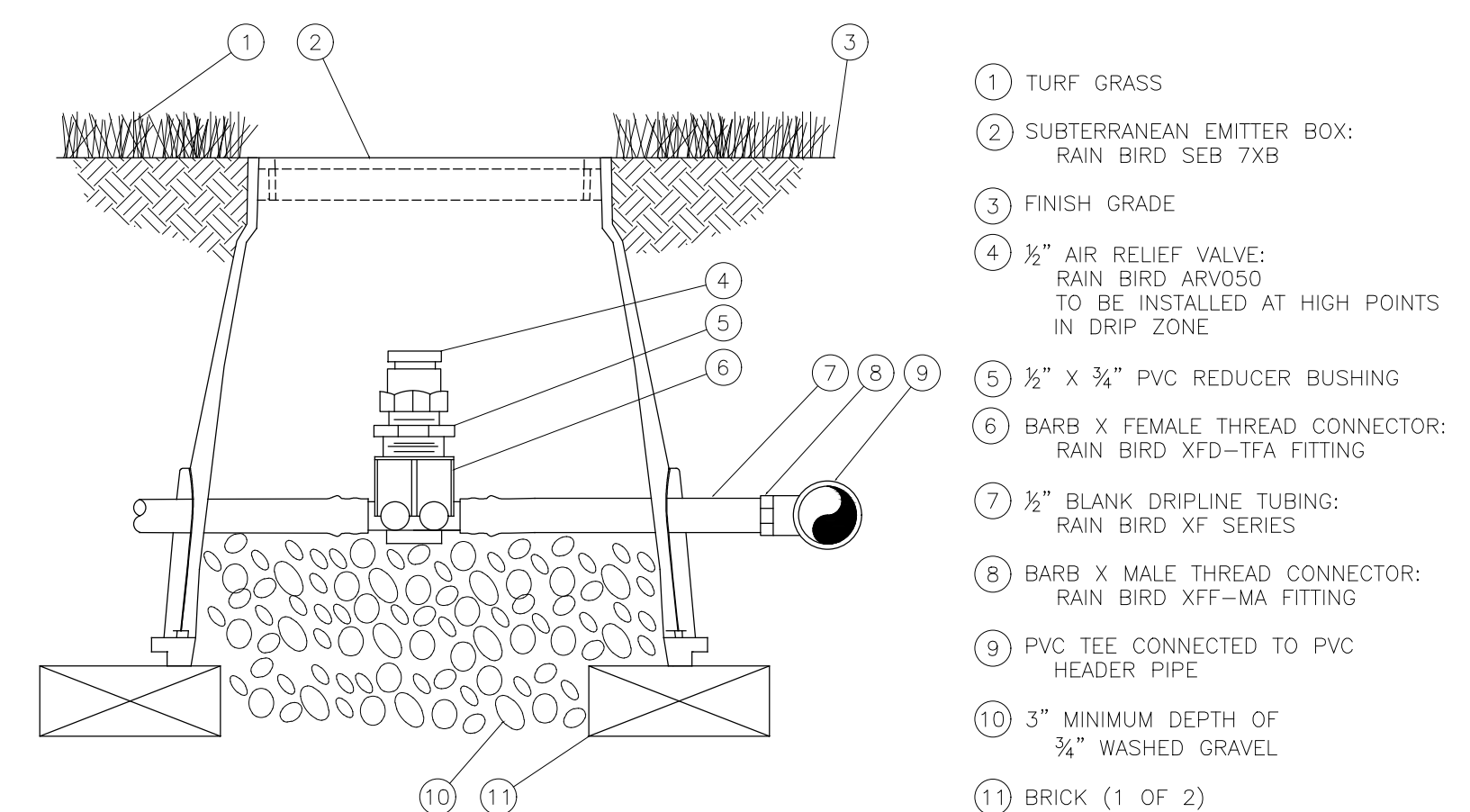


D

N.T.S.

2-14-18

XCZ-150-LCDR 2 VALVES.dwg



ZONE CONTROL SPEC SHEET DETAIL

SEE IRRIGATION SCHEDULE
ON SHEET L-4.1 FOR SPECS.



TYPICAL RAIN BIRD DRIPLINE REQUIREMENTS

N.T.S.

MAXIMUM LATERAL LENGTH (FEET)					
		EMITTER FLOW RATE GPH			
PSI	12" SPACING	18" SPACING	24" SPACING		
	0.6 0.9	0.6 0.9	0.6 0.9	0.6 0.9	
10	125 96	175 135	218 171		
20	249 191	350 171	442 340		
30	307 236	434 333	550 422		
40	350 268	495 381	627 171		
50	125 96	175 135	218 171		
60	125 96	175 135	218 171		

GRID PRECIPITATION RATES (IN/HR)			
EMITTER SPACING	LATERAL SPACING	EMITTER FLOW RATE	
		0.6	0.9
12	12	0.96	1.44
18	18	0.69	1.03
24	24	0.28	0.41

LATERAL FLOW PER 100 FT (GPM)			
EMITTER FLOW	12" SPACING	18" SPACING	24" SPACING
0.6 GPH	1.0 GPM	0.67 GPM	0.50 GPM
0.9 GPH	1.5 GPM	1.0 GPM	0.75 GPM

MAXIMUM FLOW PER ZONE		
	MAX GPM	PSI LOSS
SCHEDULE 40 PVC HEADER SIZE		
1/2"	4.7 GPM	7.7 PSI
3/4"	8.3 GPM	5.6 PSI
1"	13.5 GPM	4.2 PSI
1-1/2"	33.9 GPM	2.9 PSI
2"	52.4 GPM	1.9 PSI
POLY PIPE HEADER SIZE		
1/2"	4.7 GPM	8.8 PSI
3/4"	8.3 GPM	6.3 PSI
1"	13.5 GPM	4.6 PSI
1-1/2"	31.8 GPM	2.9 PSI
2"	52.4 GPM	2.9 PSI

1. DRIPLINE LAYOUT SHOULD FOLLOW THE CONTOURS OF THE SLOPE WHENEVER POSSIBLE.
2. INSTALL AIR RELIEF VALVE AT HIGHEST POINT.
3. NORMAL SPACING WITHIN THE TOP $\frac{2}{3}$ OF SLOPE.
4. INSTALL DRIPLINE AT 25% GREATER SPACING AT THE BOTTOM $\frac{1}{3}$ OF THE SLOPE.
5. WHEN ELEVATION CHANGE IS 10 FT OR MORE, ZONE THE BOTTOM $\frac{1}{3}$ ON A SEPARATE VALVE.

PVC SCH 40 TEE OR ELL.
PVC MANIFOLD LINE

EASY FIT COMPRESSION
ADAPTER.

EASY FIT COMPRESSION C
BIRD MDCFCOUP.

LANDSCAPE ———
DRIPLINE TUBING

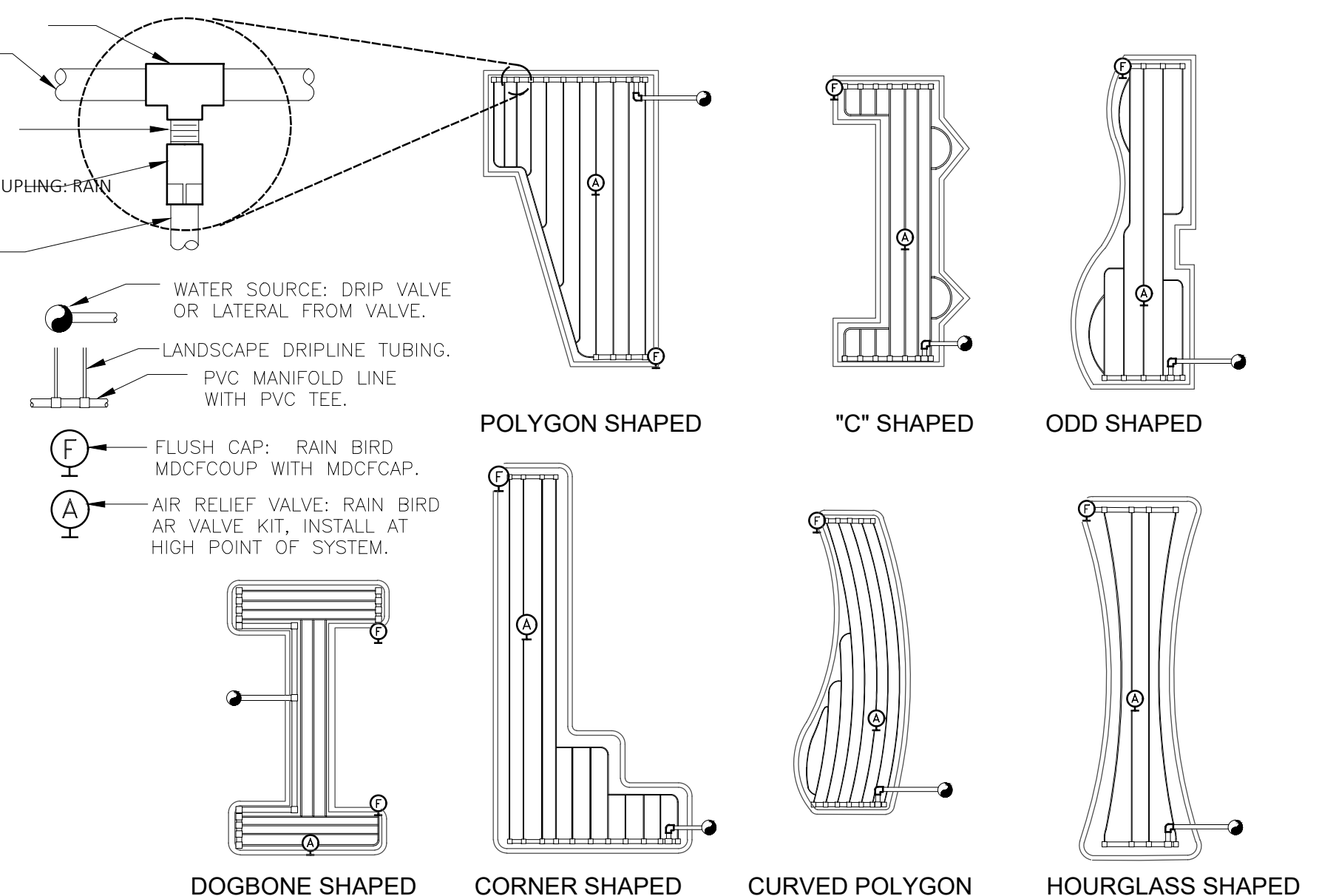
MAFLOW BED ZONE

2

RAINBIRD ARV050 1/2" AIR RELIEF VALVE WITH 6" DRIP VALVE BOX

NOT TO SCALE

0000-06



FX-IR-RB-DRIP-25

M	PERMIT+BID SET	02/17/22
	30% DD REVIEW	12/23/21
	DESCRIPTION	DATE

SIZE:	ANSI D
PRIME PROJECT #:	
ML+H PROJECT #:	21.45.0
RAWING NO.:	



Tech Spec

1800™ Series Spray Heads

Industry's Leading Spray Heads

Features

- Designed for use with all Rain Bird plastic spray head nozzles - L-Series, HE-VAN, R-VAN, MPRL, VAN, and XPCN Series.
- Precision controlled flush at pop-down cleans debris from unit, ensuring positive stem retraction in all soil types.
- Strong stainless steel spring provides reliable stem retraction.
- Ratchet mechanism on all models allows easy nozzle pattern alignment without tools.
- Pre-installed 1800 Pop-Up™ flush plug blocks debris from entering after flushing. Allows for easy nozzle installation.
- Constructed of time-proven UV-resistant plastic and corrosion resistant stainless steel parts, assuring long product life.
- All sprinkler components are removable from the top without special tools, providing for quick and easy flushing and maintenance of the sprinkler.
- Side inlets featured on 1806, 1806PRS, 1806P45, 1812, 1812PRS, and 1812P45 models only.
- Five-year trade warranty.

Operating Range

- Spacing: 2.5 to 24 feet (0.8 to 7.3 m)
- Pressure: 15 to 70 psi (1.0 to 4.8 bar)

Specifications

- Flow-by: 0 at 8 psi (0.6 bar) or greater; 0.1 gpm (0.02 m³/h; 0.006 l/s) otherwise

Dimensions/Models

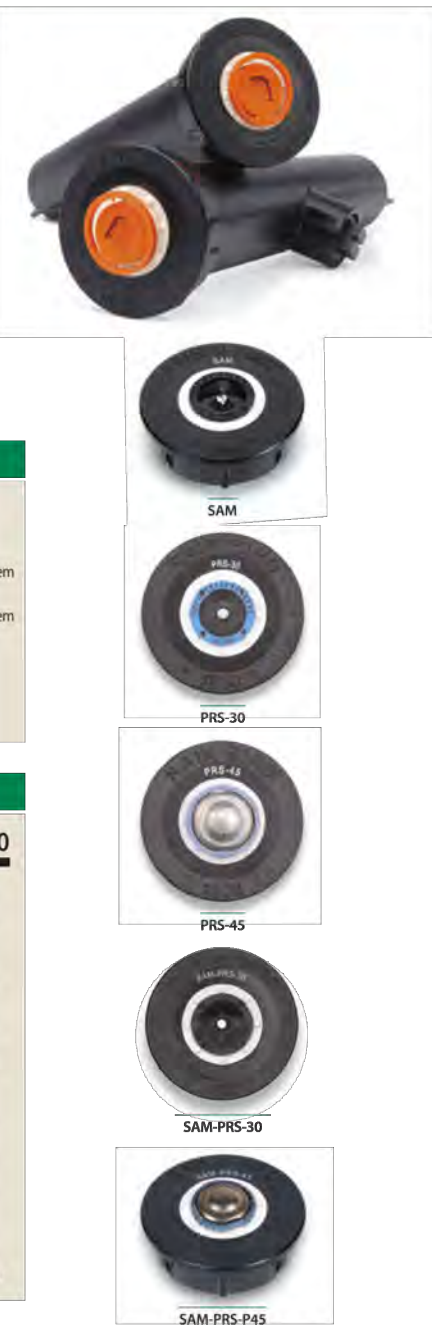
- 1/2" (15/21) NPT female threaded inlet
- Models and height:
- 1802: 4" (10 cm) body height; 2" pop-up height (5 cm)
- 1804: 6" (15 cm) body height; 4" pop-up height (10 cm)
- 1806: 9" (24 cm) body height; 6" pop-up height (15 cm)
- 1812: 16" (40 cm) body height; 12" pop-up height (30 cm)
- Exposed surface diameter: 2 1/4" (5.7 cm)

How To Specify

1804 - SAM - PRS
Optional Feature: PRS: 30psi (2.1 bar) in-stem pressure regulation
Optional Feature: SAM: Seal-A-Matic® check valve
Model: 1804-6" (10.2 cm) pop-up height

How To Specify

1804 - SAM-P45 - R-VAN18-360
Radius Range: 6" - 24" (15.2 to 61 cm)
R-VAN18: 45° - 270°
R-VAN18-360: 360°
1 1/2" - 18" (3.8 to 45.7 cm)
R-VAN18-360: 360°
17" - 24" (42.9 to 61 cm)
R-VAN24: 45° - 270°
R-VAN24-360: 360°
Strip Nozzles: R-VAN L.S.: 5' x 15' (1.5 x 4.6 m)
R-VAN R.C.S.: 5' x 15' (1.5 x 4.6 m)
R-VAN S.S.T.: 5' x 30' (1.5 x 9.1 m)
Model: 1804-6" (10.2 cm) pop-up height
Note: Specify sprinkler bodies and nozzles separately.



1800™ Series Spray Heads

Tech Spec

1800™ SAM Series

Ideal for use in areas with changing elevation, the 1800 SAM Series offers all 1800 Series features plus:

- Built-in Seal-A-Matic™ (SAM) check valve. Eliminates the need for under-the-head check valves. No parts to be installed at the site.
- Stronger retract spring to accommodate elevation changes up to 14' (4.2 m). One of the strongest springs in the industry.
- Prevents drainage from spray heads at lower elevations. Stops water waste. Ends landscape damage due to flooding and/or erosion.
- Helps retain water in lateral pipes which reduces wear on system components by minimizing water hammer during start-up.
- Designed for use with all Rain Bird plastic spray head nozzles.
- "SAM" stamped on cap for easy identification and maintenance.
- Five-year trade warranty.

Operating Range

- Spacing: 2.5 to 24 feet (0.8 to 7.3 m)
- Pressure: 25 to 70 psi (1.7 to 4.8 bar)

Specifications

- SAM capability: holds up to 14 feet (4.2 m) of head; 6 psi (0.3 bar)
- Flow-by: 0 at 8 psi (0.6 bar) or greater; 0.1 gpm (0.02 m³/h; 0.006 l/s) otherwise
- Installation: bottom inlet only

Dimensions

- 1/2" (15/21) NPT female threaded inlets
- Body height: 1804 SAM: 6" (15 cm), 1806 SAM: 9" (24 cm), 1812 SAM: 16" (40 cm)
- Exposed surface diameter: 2 1/4" (5.7 cm)

Models

- 1804 SAM: 4" pop-up height (10 cm)
- 1806 SAM: 6" pop-up height (15 cm)
- 1812 SAM: 12" pop-up height (30 cm)



www.rainbird.com

1800 P45 Series

Designed for areas with high and/or widely fluctuating water pressures, the 1800 P45 Series has all 1800 Series features plus:

- PATENTED PRS pressure regulator built into the stem. No parts to be installed at the site. Saves time and money.
- Maintains constant outlet pressure at 30psi (2.1 bar). Rotary nozzles perform best at 30psi. Ensures maximum nozzle performance, even with varying inlet pressures. Maintains constant pressure regardless of nozzles used.
- Restricts water loss by up to 70% if nozzle is removed or damaged. Saves water and money. Reduces possibility of accidents and property damage. Recommended for vandal-prone areas.
- Ensures consistent performance throughout zone if nozzle is removed or damaged. Keeps plant life covered by other spray heads properly irrigated.
- Ends misting and fogging caused by high pressure. Stops water waste. Ensures necessary watering occurs in high pressure or wind conditions.
- Designed for use with all Rain Bird plastic spray head nozzles.
- "PRS-30" stamped on cap for easy identification and maintenance.
- Five-year trade warranty.

Operating Range

- Spacing: 2.5 to 24 feet (0.8 to 7.3 m)
- Pressure: 15 to 70 psi (1 to 5 bar)

Specifications

- Regulates nozzle pressure to an average 30 psi (2.1 bar) with inlet pressures of up to 70 psi (4.8 bar)
- Flow-by: 0 at 8 psi (0.6 bar) or greater; 0.1 gpm (0.02 m³/h; 0.006 l/s) otherwise
- Installation: side or bottom inlet
- Side inlet installation not recommended in freezing climates

Dimensions

- 1/2" (15/21) NPT female threaded inlets
- Body height: 1804 P45: 6" (15 cm), 1806 P45: 9" (24 cm), 1812 P45: 16" (40 cm)
- Exposed surface diameter: 2 1/4" (5.7 cm)

Models

- 1804 P45: 4" pop-up height (10 cm)
- 1806 P45: 6" pop-up height (15 cm)
- 1812 P45: 12" pop-up height (30 cm)

Tech Spec

1800 SAM-PRS-30 Series

Meets the needs of spray body applications using Spray Nozzles regardless of changing elevation or water pressures. Incorporates 1800 Series SAM feature and regulates operating pressure at 30 psi (2.1 bar).

Operating Range

- Spacing: 2.5 to 24 feet (0.8 to 7.3 m)
- Pressure: 25 to 70 psi (1.7 to 4.8 bar)

Specifications

- SAM capability: holds up to 14 feet (4.2 m) of head; 6 psi (0.3 bar)
- Flow-by: 0 at 8 psi (0.6 bar) or greater; 0.1 gpm (0.02 m³/h; 0.006 l/s) otherwise
- Installation: bottom inlet only
- Regulates pressure to an average 30 psi (2.1 bar) with inlet pressures of up to 70 psi (4.8 bar)

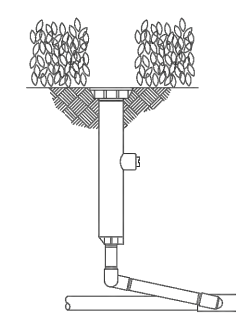
Dimensions

- 1/2" (15/21) NPT female threaded inlets
- Body height: 1804 SAM-PRS: 6" (15 cm), 1806 SAM-PRS: 9" (24 cm), 1812 SAM-PRS: 16" (40 cm)
- Exposed diameter: 2 1/4" (5.7 cm)

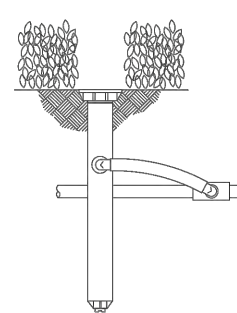
Models

- 1804 SAM-PRS: 4" pop-up height (10 cm)
- 1806 SAM-PRS: 6" pop-up height (15 cm)
- 1812 SAM-PRS: 12" pop-up height (30 cm)

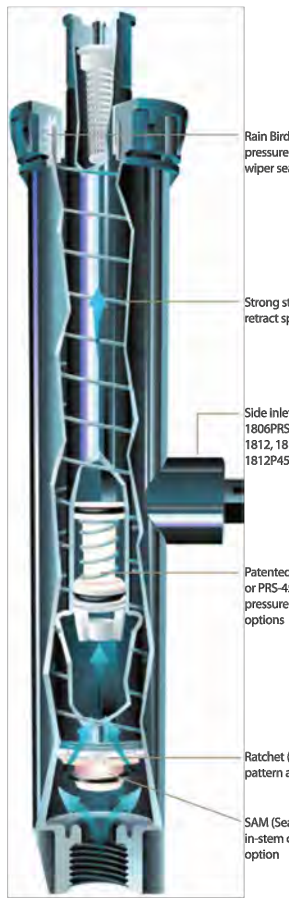
1806 with Swing Joint on Bottom Inlet



1812 with Swing Pipe on Side Inlet



All Rain Bird Spray Bodies with PRS are WaterSense certified



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Specifications

1802, 1804, 1806 and 1812 Pop-up Spray Sprinkler

The sprinkler body, stem, nozzle and screen shall be constructed of heavy-duty, ultra-violet resistant plastic. It shall have a heavy-duty stainless steel retract spring for positive pop-down and a ratcheting system for easy alignment of the pattern. The sprinkler shall have a soft elastomer pressure-activated co-molded wiper seal for clearing debris from the pop-up stem as it retracts into the case to prevent the sprinkler from sticking up to minimize "flow-by".

The sprinkler shall have a matched precipitation rate (MPR) plastic or brass nozzle with an adjusting screw capable of regulating the radius and flow. The sprinkler shall be capable of housing protective, non-clogging filter screens or pressure compensating screens (PCS) under the nozzle. The screen shall be used in conjunction with the adjusting screw for regulating. The 6" (15 cm) and 12" (30 cm) models shall have both a side and a bottom 1/2" (15/21) (PHWT) inlet for ease of installation.

The sprinkler shall have a Pop-Up™ Flush Plug pre-installed. The plug shall prevent debris from clogging the sprinkler during installation and allow for the system to be flushed before nozzling. The plug shall be bright orange in color and constructed of polypropylene material.

1804 SAM, 1806 SAM and 1812 SAM Circle Seal-A-Matic™ Pop-up Spray Sprinkler

Optional Feature Specifications: When so indicated on the design, the 4" 6" or 12" high pop-up spray sprinkler shall also include a Seal-A-Matic (SAM) check valve and a 45 psi pressure regulating (PRS) device. These units shall be identifiable from the top with "SAM-PRS-45" markings on the cap. The check valve shall prevent low head drainage of up to 14 feet of head. The pressure regulating device shall prevent high pressure fogging of the nozzle stream by regulating the nozzle pressure to 30 psi for inlet pressures from 35 to 70 psi. Below 35 psi the pressure loss shall not exceed 6 psi.

1804 PRS, 1806 PRS and 1812 PRS Pressure Regulating Pop-up Spray Sprinkler

Optional Feature Specifications:

When so indicated on the design, the 4" 6" or 12" high pop-up spray sprinkler shall also include a pressure regulating (PRS) device to prevent high pressure fogging of the nozzle stream. This regulating device shall be an integral part of the pop-up stem, removable through the top of the case. These units shall be identifiable from the top with "PRS-30" markings on the cap. The check valve shall prevent low head drainage of up to 14 feet of head. The pressure regulating device shall prevent high pressure fogging of the nozzle stream by regulating the nozzle pressure to 30 psi for inlet pressures from 35 to 70 psi. Below 35 psi the pressure loss shall not exceed 6 psi. These models shall utilize the bottom inlet only.

1804 P45, 1806 P45 and 1812 P45 Pressure Regulating Pop-up Spray Sprinkler

Optional Feature Specifications:

When so indicated on the design, the 4" 6" or 12" high pop-up spray sprinkler shall also include a pressure regulating (PRS) device to prevent high pressure fogging of the nozzle stream. This regulating device shall be an integral part of the pop-up stem, removable through the top of the case. These units shall be identifiable from the top with "PRS-45" markings on the cap. The device shall regulate the nozzle pressure to 45 psi for inlet pressures from 50 to 70 psi. Below 50 psi the pressure loss shall not exceed 6 psi.

1804 SAM-P45, 1806 SAM-P45, and 1812 SAM-P45 Seal-A-Matic Pressure Regulating Pop-up Spray Sprinkler

Optional Feature Specifications: When so indicated on the design, the 4" 6" or 12" high pop-up spray sprinkler shall also include a Seal-A-Matic (SAM) check valve and a 45 psi pressure regulating (PRS) device. These units shall be identifiable from the top with "SAM-PRS-45" markings on the cap. The check valve shall prevent low head drainage of up to 14 feet of head. The pressure regulating device shall prevent high pressure misting and undesirable performance of the nozzle stream by regulating the nozzle pressure to 45 psi for inlet pressures from 50 to 70 psi. Below 50 psi the pressure loss shall not exceed 6 psi. These models shall utilize the bottom inlet only.

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6991 E. Southpoint Road
Tucson, AZ 85756
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Fax (520) 741-6522

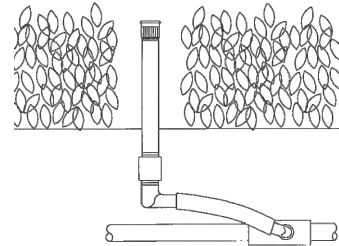
Rain Bird Technical Services
(800) RAINBIRD (1-800-724-6247)
(U.S. and Canada)

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www.rainbird.com

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1000 West Sierra Madre Ave.
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Fax (626) 852-7343



Specifications

1300A-F Adjustable Flood Bubbler

The bubbler body shall be constructed of durable UV-resistant plastic. It shall have a plastic inlet filter screen to protect the nozzle against clogging, and a stainless steel adjusting screw, capable of shutting off the bubbler and regulating the flow. The bubbler shall have a 1/2 inch (15/21) female threaded inlet for connecting to the piping system riser.

The bubbler shall be as manufactured by Rain Bird Corporation, Glendora, California.

1401, 1402, 1404, 1408 Pressure Compensating Flood Bubbler

The bubbler shall have a "trickle" pattern (1401 & 1402 models) or an "umbrella" pattern (1404 & 1408 models) discharge. The bubbler assembly shall have a plastic inlet filter screen to protect the nozzle against clogging.

The pressure compensating bubbler shall be a permanently assembled design constructed of durable, UV-resistant plastic with an integral rubber flow washer for regulating the flow rate at an operating pressure range of 20 to 90 psi (1.5 to 6.0 bar).

The pressure compensating bubbler shall have a 1/2 inch (15/21) female threaded inlet for connection to the piping system riser. The pressure compensating bubbler shall be as manufactured by Rain Bird Corporation, Glendora, California.

How To Specify

1404
Model: 1300A-F
1401
1402
1404
1408

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D8000502

03

1800 SERIES SPRAY HEAD SPEC SHEET

SEE IRRIGATION SCHEDULE ON SHEET L-4.1 FOR SPECS.

02

POP UP SPRAY HEAD SPEC SHEET

NEPTUNE BEACH COMMUNITY CENTER

NEPTUNE BEACH, FLORIDA

IRRIGATION DETAILS

SYM	DESCRIPTION	DATE
	PERMIT+ BID SET	02/17/22
	30% DO REVIEW	12/23/21

SIZE: ANSI D
PRIME PROJECT #:
ML+H PROJECT #: 21.45.0

DRAWING NO.:
L-4.4

21.45.00 NEPTUNE BEACH SENIOR COMMUNITY CENTER
SCHEDULES

LANDSCAPE SCHEDULE					
Botanical/Common	Code	Cont	Cal	Height	Quantity
BAMBUSA MALINGENSIS / SEABREEZE BAMBOO	Bm	25 GAL.	MIN. 12-15 CANES	12'-14'	11
LAGERSTROEMIA INDICA X FAUREI 'NATCHEZ' / NATCHEZ CRAPE MYRTLE	Ln	B&B, ROOT PLUS GROWERS MULTI, 5 TRUNKS - 6-7" CALIPER		12'-14' HT	3
QUERCUS VIRGINIANA 'BQV22' TM / BOARDWALK SOUTHERN LIVE OAK	Qv	B&B, ROOT PLUS GROWERS 4"		14' - 16'	3
SABAL PALMETTO / CABBAGE PALMETTO	Ss	B&B; REGENERATED		8'-14' CT	6
Botanical/Common	Code	Cont	Height	Spread	Quantity
HELIANTHUS DEBILIS / DUNE SUNFLOWER	Hd	1 GAL.	8"	12"	71
ILEX VOMITORIA 'SCHILLINGS DWARF' / SCHILLINGS DWARF YAU PON HOLLY	Id	3 GAL.	12"	12"	62
LIRIOPE MUSCARI 'BIG BLUE' / BIG BLUE LILYTURF	Lb	3 GAL.	12"	12"	102
NEPHROLEPIS EXALTATA / BOSTON FERN	Ne	3 GAL.	16"	16"	156
NERIUM OLEANDER 'PETITE PINK' / PETITE PINK OLEANDER	Np	7 GAL.	18"	18"	141
SPARTINA BAKERI / SAND CORDGRASS	Sb	1 GAL.	24"	16"	222
Botanical/Common	Code	Cont	Height	Spread	Quantity
PASPALUM NOTATUM 'ARGENTINE' / ARGENTINE BAHIA GRASS	Pa		11008		

IRRIGATION SCHEDULES

IRRIGATION SCHEDULES			
MANUFACTURER/MODEL	DESCRIPTION	QTY	PSI
RAIN BIRD R-VAN18 1804-SAM-P45	TURF ROTARY, 13'-18" 45-270 DEGREES AND 360 DEGREES. HAND ADJUSTABLE MULTI-STREAM ROTARY W/1800 TURF SPRAY BODY ON 4" POP-UP, WITH CHECK VALVE AND 45 PSI IN-STEM PRESSURE REGULATOR. 1/2" NPT FEMALE THREADED INLET.	1	45
RAIN BIRD R-VAN24 1804-SAM-P45	TURF ROTARY, 17'-24' 45-270 DEGREES AND 360 DEGREES. HAND ADJUSTABLE MULTI-STREAM ROTARY W/1800 TURF SPRAY BODY ON 4" POP-UP, WITH CHECK VALVE AND 45 PSI IN-STEM PRESSURE REGULATOR. 1/2" NPT FEMALE THREADED INLET.	21	45
RAIN BIRD R-VAN24 1804-SAM-P45	TURF ROTARY, 17'-24' 45-270 DEGREES AND 360 DEGREES. HAND ADJUSTABLE MULTI-STREAM ROTARY W/1800 TURF SPRAY BODY ON 4" POP-UP, WITH CHECK VALVE AND 45 PSI IN-STEM PRESSURE REGULATOR. 1/2" NPT FEMALE THREADED INLET.	2	45
RAIN BIRD 1804-1400 FLOOD 1402	FLOOD BUBBLER 4.0" POPUP	18	40
MANUFACTURER/MODEL/	DESCRIPTION	QTY	PSI
RAIN BIRD XCZ-150-LCS	1-1/2" HIGH FLOW CONTROL ZONE KIT, FOR LARGE COMMERCIAL DRIP ZONES. 1-1/2(" PEB GLOBE VALVE WITH SINGLE 1-1/2(" PRESSURE REGULATING 40PSI QUICK-CHECK BASKET FILTER. FLOW RANGE: 15-62 GPM.	2	
PIPE TRANSITION POINT ABOVE GRADE	PIPE TRANSITION POINT FROM PVC LATERAL TO DRIP TUBING WITH RISER TO ABOVE GRADE INSTALLATION.	20	
RAIN BIRD MDCFCAP	DRIPLINE FLUSH VALVE CAP IN COMPRESSION FITTING COUPLER.	11	
RAIN BIRD ARV050	1/2" 1/2" AIR RELIEF VALVE, MADE OF QUALITY RUST-PROOF MATERIALS, WITH A 6" DRIP VALVE BOX (SEB 7XB EMITTER BOX), USE WITH INSTALLATION BELOW SOIL. THE VALVE WILL ALLOW AIR TO ESCAPE THE PIPELINE, THUS PREVENTING WATER HAMMER OR BLOCKAGE.	11	
RAIN BIRD XFD-06-18	XFD ON-SURFACE PRESSURE COMPENSATING LANDSCAPE DRIPLINE. 0.6 GPH EMITTERS AT 18" O.C. DRIPLINE LATERALS SPACED AT 18" APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN. UV RESISTANT. SPECIFY XF INSERT FITTINGS.	4742.13	40
MANUFACTURER/MODEL	DESCRIPTION	QTY	
RAIN BIRD PEB	1-1/2" 1", 1-1/2", 2" PLASTIC INDUSTRIAL VALVES. LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION.	1	
RAIN BIRD PEB	1" 1", 1-1/2", 2" PLASTIC INDUSTRIAL VALVES. LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION.	1	
ZURN 375 1-1/2"	REDUCED PRESSURE PRINCIPLE ASSEMBLY. SIZES 1/2",3/4", 1", 1-1/4", 1-1/2", 2".	1	
RAIN BIRD ESP4ME3 WITH (1) ESP-SM3	7 STATION, HYBRID MODULAR OUTDOOR CONTROLLER. FOR RESIDENTIAL OR LIGHT COMMERCIAL USE. LNK WIFI MODULE AND FLOW SENSOR READY.	1	
IRRIGATION LATERAL LINE:	PVC CLASS 200 SDR 21 1/2"	973.96	
IRRIGATION LATERAL LINE:	PVC CLASS 200 SDR 21 3/4"	310.37	
IRRIGATION LATERAL LINE:	PVC CLASS 200 SDR 21 1"	158.39	1,498 L.F.
IRRIGATION LATERAL LINE:	PVC CLASS 200 SDR 21 1 1/4"	48.77	
IRRIGATION LATERAL LINE:	PVC CLASS 200 SDR 21 2"	6.68	
IRRIGATION MAINLINE:	PVC SCHEDULE 40 1 1/4"	2.59	
RRIGATION MAINLINE:	PVC SCHEDULE 40 1 1/2"	14.87	265.0 L.F.
IRRIGATION MAINLINE:	PVC SCHEDULE 40 2"	247.53	
PIPE SLEEVE: PVC CLASS 200	TYPICAL PIPE SLEEVE FOR IRRIGATION PIPE. PIPE SLEEVE SIZE SHALL ALLOW FOR IRRIGATION PIPING AND THEIR RELATED COUPLINGS TO EASILY SLIDE THROUGH SLEEVING MATERIAL. EXTEND SLEEVES 18 INCHES BEYOND EDGES OF PAVING OR CONSTRUCTION.	188.87	

21.45.00 NEPTUNE BEACH SENIOR COMMUNITY CENTER
SCHEDULES

VALVE SCHEDULE NUMBER	MODEL	SIZE	TYPE	GPM	HEADS	PIPE	WIRE	DESIGN PSI	PSI @	POC	PRECIP
1	RAIN BIRD XCZ-150-LCS	1-1/2"	AREA FOR DRIPLINE	14.41	1,802 L.F.	381.1	202.9	40	45.88	59.45	0.61
2	RAIN BIRD PEB	1-1/2"	TURF ROTARY	33.44	279.7 L.F.	507.8	193.1	45	51.06	59.78	0.58
3	RAIN BIRD PEB	1"	TURF ROTARY	19.04	15	361.9	293	45	50.38	64.98	0.36
4	RAIN BIRD XCZ-150-LCS Common Wire	1-1/2"	AREA FOR DRIPLINE	17.91	2,687 L.F.	247.3	287.6	40	44.01	58.25	0.53
							265				

HARDSCAPE SCHEDULES

SYMBOL	DESCRIPTION	QTY	DETAIL	DESCRIPTION	FINISH/COLOR	MANUFACTURER/SUPPLIER
HS-102	CIP COQUINA CONCRETE	1,136				
HS-103	PAVER BANDING COURSE	89		4"X8" HEADER COURSE	SILVER SAM	ARTISTIC PAVER
HS-104	AGGREGATE - 89 ROCK	2,021				
HS-105	PARKING CONCRETE	641				
HS-106	CONCRETE PARKING BORDER	384				
HS-107	PARKING STRIPE - PERMEABLE PAVERS	228		8"X8" SF RIMA	SAND DUNE	TREMRON
HS-108	PARKING - PERMEABLE PAVERS	4,333		8"X8" SF RIMA	GRANITE	TREMRON
HS-109	ANNODIZED ALUMINUM EDGING	172		4"	SILVER	PERMALOC