



Technical assistance/installation clause:

Fees for services are \$ 830.00 for the United States and its territories, Canada, and the Caribbean. International Services are \$1100.00 USD per day per person. Included is hotel, rental car, meals, taxis, and airport parking. Expenses for airfare, visas, transfers, special job site training, ferries, and others will be billed at actual costs. On domestic and international installations, the daily fee extends from portal to portal from Perry, Florida. The Daily fee continues during the week Monday through Sunday regardless of whether work can be performed on Saturday or Sunday. Travel arrangements and accommodations are to be arranged or agreed to by Big Top Mfg. or the technician. (Domestic & International flights are to be coach class and the hotel accommodations are to be with a standard chain hotel). All remaining balances will be settled on prior to the departure of the technician from the job site. There may be some international regions where a service technician is not available. Call for details.

Big Top will not be responsible for any damage to the grounds, shrubbery, underground utilities, asphalt, concrete, etc. due to the normal construction process necessary to install the above shelters unless specifically provided for in the purchase contract.

In the event the above proposal includes metal/aluminum entry equipment doors, unless the shelter is built on level concrete, we cannot take responsibility for its operation. If uneven - such as is routinely encountered on asphalt or soil, the framework will likely require modification on site resulting in additional costs.

Big Top will provide soil or concrete wedge anchors as a standard form of anchoring. Big Top makes no representation as to the structural integrity or suitability of the concrete or soil. Any other anchoring surface or method is at the sole risk of the end user. No representation is made as to water drainage due to slope or foundation issues.

Shelter is to be installed in accordance with the provided assembly instructions, under the guidance of our technician or via Big Top. If the end user chooses to owner install the shelter, finished photos are required including photos of the shelter with the anchors properly installed. In the event the shelter is ever relocated, new photos will be required including anchorage photos.

In the event the end user chooses to employ our technician, we make no representation as to the quality, suitability, or performance of the laborers or equipment provided. The estimate given is based upon typical installations worldwide but is not a guaranteed level of performance.

If Big Top is to fully install the shelter, unencumbered access is necessary. We assume a 7 day workweek. If the weekends cannot be worked, we will need to know this in ADVANCE to modify the proposal.

End user is responsible for permitting and any local taxes or tariffs, if any. If a turn-key installation by Big Top, it is the end user's responsibility to determine Big Top's ability to install the shelter based upon local licensing or permitting issues. All costs associated with this to be borne by the end user.

Shelter is defined as an equipment item. Proper maintenance is necessary to extend the life of the shelter frame, fabric, doors, and access panels. Proper maintenance includes but is not limited to checking fabric for proper taught ness and adjusting as necessary, adjusting cables, pulleys, trolleys, turnbuckles, lubricating moving parts, inspecting nuts, bolts, etc.

Lighting, winches, heating, A/C, dehumidification units, doors, etc. are covered under the product manufacturer's warranty.

Big Top Shelters is the installer of our product. We are not a construction company. If your site requires special licenses, permitting, or other accessory items to meet your local code requirements then a general contractor may be required. If the shelter is purchased or installed prior to permit approval the customer bears the cost of any upgrades to meet local code.

PROGRAM:

Erect a **full-service homeless recovery facility** at the foot of Red John Road, across the street from the Stewart-Marchman ACT crisis center, and 1/4 mile from the Volusia County jail. The facility will be close to the center of the county.

The facility will consist of four residential pavilions along with staff and service components. The pavilions will be constructed of steel frame mounted on block perimeter walls, with the roof pitched 20 degrees toward the south. The pavilions will have high clerestory windows with remote motorized opening hardware on the north walls and operable windows at eye level on the south walls, so that the windows can be opened at appropriate times to enhance century effect air movement through the pavilions, which will be aided by large ceiling fans.

Three staff offices per pavilions will have both direct access into the pavilions and to the outside. The pavilions will each have lavatory and bathing components, as well as a lounge at one end of the open space. A highly efficient straight-line HVAC system will maintain a comfort level within the pavilions of 60°-80°.

The pavilions are configured to be expandable lengthwise, and a third band of pavilions could be added northward if additional capacity were to be needed in the future. Conversely, the size of the pavilions could be reduced prior to construction if found to be desirable.

Staff and service spaces are provided and connected to the pavilions by covered walkways so as to avoid costly internal corridors, similar to the strategy used to connect "portables" in schools.

The 28,000 sq. ft. of sloping roofs will provide the ability to install sufficient photovoltaic collectors to power the needs of the entire facility.

VOLUSIA SAFE HARBOR

BUILDING AREAS AND COSTS:

Pavilion 1 - 6, 250 sq. ft.

Pavilion 2 - 6,200 sq. ft.

Pavilion 3 - 6,740 sq. ft.

Pavilion 4 - 4,650 sq. ft.

Total pavilions - 23,840 sq. ft. @ \$85.00/ft = \$2,026,400

Kitchen/Storage - 2,580 sq. ft. @ \$110.00/ft = \$ 283,000

Reception/triage/support - 6,380 sq. ft. @ 120.00/ft = \$ 701,800

Building total: 32,800 sq. ft. = \$3,011,200

PAD AREA

Pad area = 53,000 sq. ft (1.23 acres)

Mitigation @ \$100,000/acre.

fill @ \$10/sq.yd placed

\$150,000 site improvements (sewer,
water, storm water, paving)

Total pad placement complete = \$ 475,000

SUB-TOTAL \$3,486,200

Fees, contingencies (10%) = \$ 349,000

PROJECT TOTAL = \$3,835,200

Wm
CHAPIN
F.A.I.A. • ARCHITECT

williamchapin.com





Wm
CHAPIN
F.A.I.A. • ARCHITECT

file
1

PROGRAM:

Erect a **full-service homeless recovery facility** at the foot of Red John Road, across the street from the Stewart-Marchman ACT crisis center, and 1/4 mile from the Volusia County jail. The facility will be close to the center of the county.

The facility will initially consist of two residential pavilions along with staff and service components. The pavilions will be constructed of steel frame mounted on block perimeter walls, with the roof pitched 20 degrees toward the south. The pavilions will have high clerestory windows with remote motorized opening hardware on the north walls and operable windows at eye level on the south walls, so that the windows can be opened at appropriate times to enhance century effect air movement through the pavilions, which will be aided by large ceiling fans.

Three staff offices per pavilion will have both direct access into the pavilions and to the outside. The pavilions will each have lavatory and bathing components, as well as a lounge at one end of the open space. A highly efficient straight-line HVAC system will maintain a comfort level within the pavilions of 60°-80°.

The pavilions are configured to be expandable lengthwise, and a second band of pavilions could be added northward if additional capacity were to be needed in the future. The slabs for these two more pavilions should be constructed as part of phase 1, as they would be useful for other outdoor activities as shown

Staff and service spaces are provided and connected to the pavilions by covered walkways so as to avoid costly internal corridors, similar to the strategy used to connect "portables" in schools.

The 28,000 sq. ft. of sloping roofs will provide the ability to install sufficient photovoltaic collectors to power the needs of the entire facility.

BUILDING AREAS AND COSTS:

Pavilion 1 - 6, 250 sq. ft.

Pavilion 2 - 6,200 sq. ft.

Total pavilions - 12,450 sq. ft. @ \$85.00/ft = \$1,058,250

Kitchen/Storage - 2,580 sq. ft. @ \$110.00/ft = \$ 283,000

Reception/triage/support - 6,380 sq. ft. @ 120.00/ft = \$ 701,800

Building total: 32,800 sq. ft. = \$2,043,050

PAD AREA

Pad area = 53,000 sq. ft (1.23 acres)

Mitigation @ \$100,000/acre.

fill @ \$10/sq.yd placed

\$150,000 site improvements (sewer,
water, storm water, paving)

Total pad placement complete = \$ 475,000

SUB-TOTAL \$2,518,050

Fees, contingencies (10%) = \$ 251,800

PROJECT TOTAL = \$2,769,850

ANALYSIS CONTRIBUTORS:

Coleman-Goodemote construction - Harold Goodemote

General building construction

Atlantic Central Industries - Steve Traulsen

Steel frame production and erection

Zev Cohen & Associates - Bobby Ball, CE

Civil engineering

Solar-Fit Energy Management Systems - Bill Gallagher

Solar thermal and photovoltaic systems

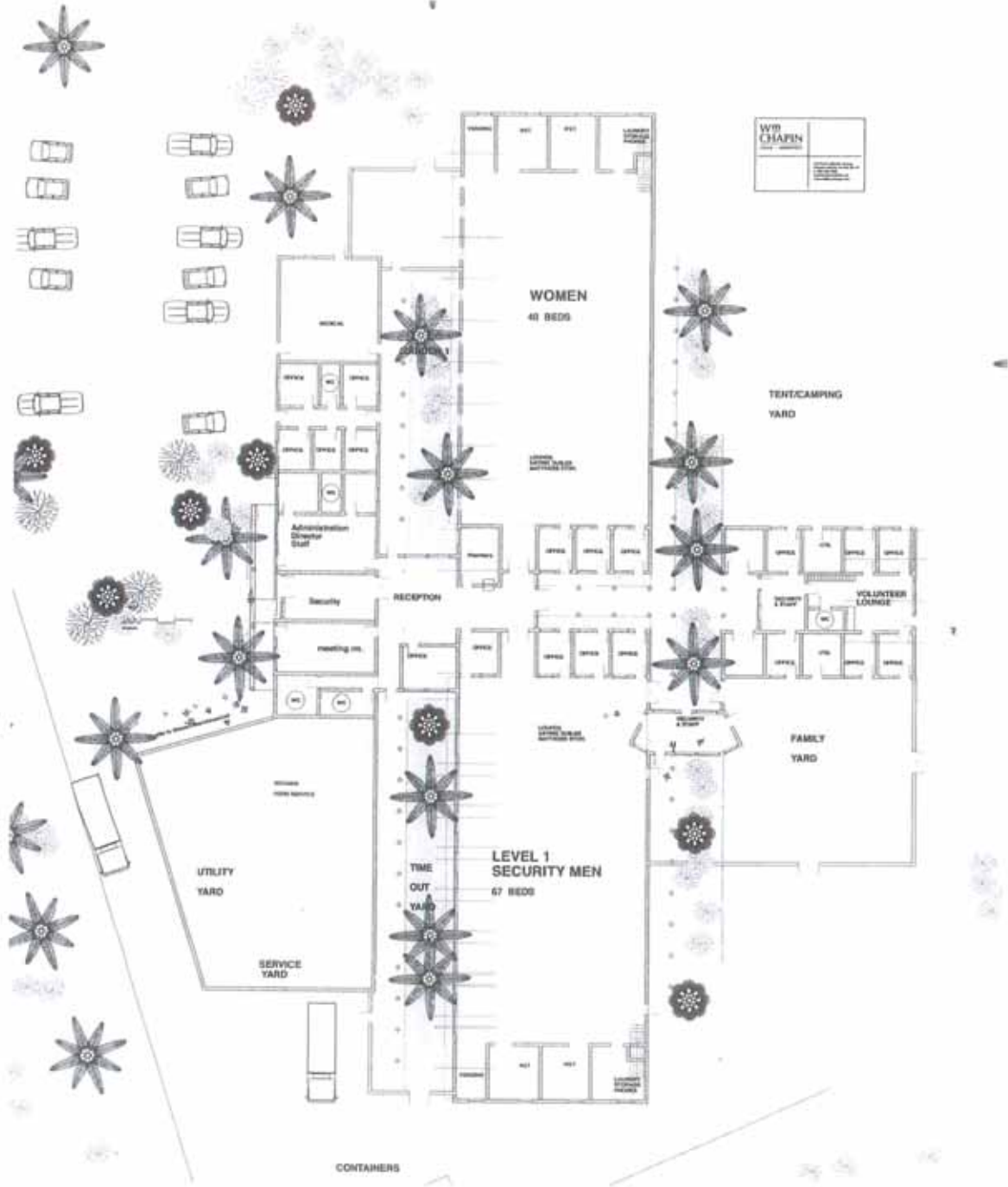
LEEPCORE Structural Insulated panels, Inc - John Norquist

Pavilion roof deck system

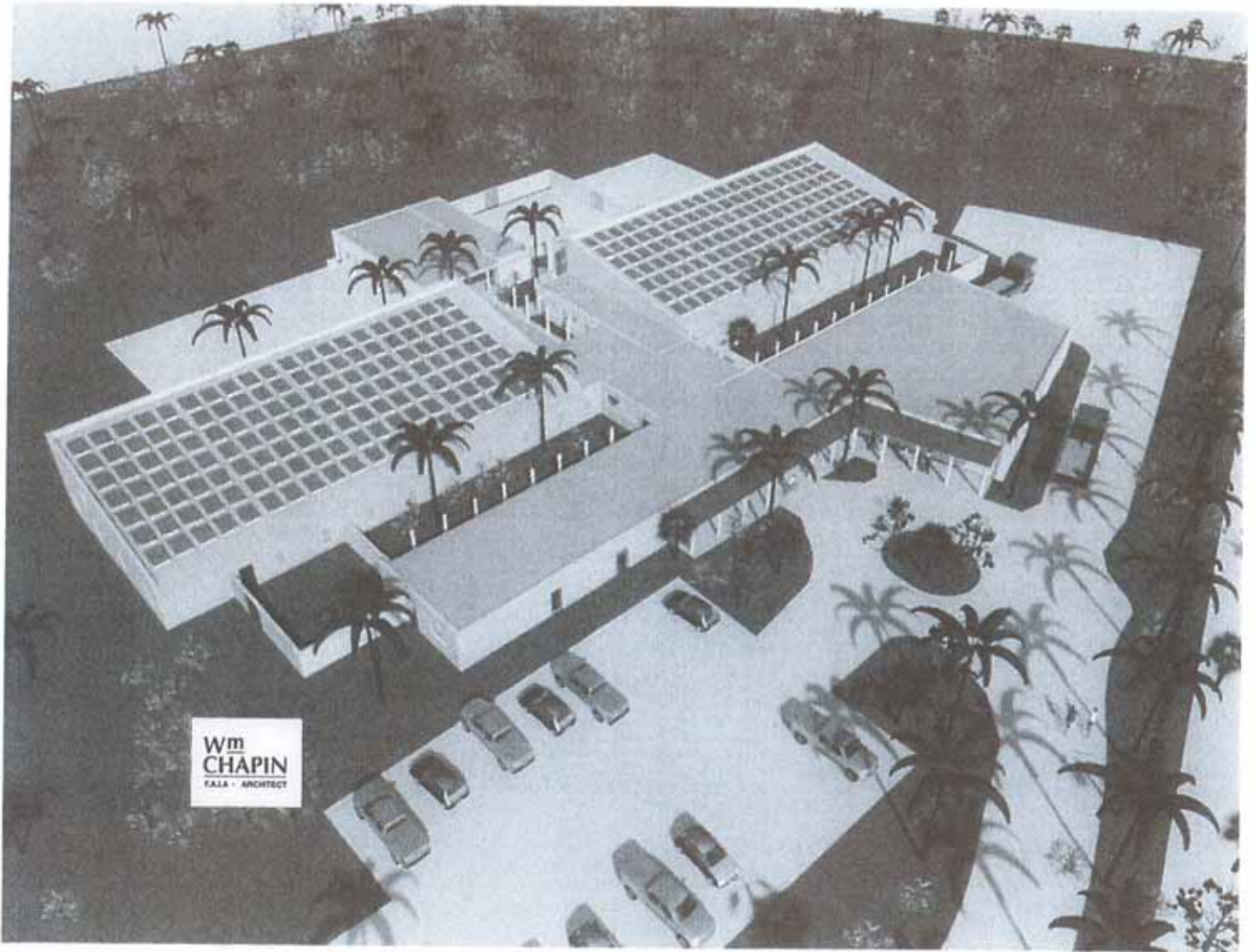
Halifax Urbal Ministries - Troy Ray, Mark Geallis

Food service, staff space programming

Wm
CHAPIN
F.A.I.A. • ARCHITECT



Wm
CHAPIN
F.A.I.A. • ARCHITECT



Wm
CHAPIN
F.A.I.A. • ARCHITECT

Wm
CHAPIN
F.A.I.A. • ARCHITECT

williamchapin.com

Date of PIT Count: 1/26/2016

Population: Sheltered and Unsheltered Count

Total Households and Persons

	Sheltered			Unsheltered	Total
	Emergency	Transitional	Safe Haven		
Total Number of Households	191	88	0	439	718
Total Number of Persons	233	191	0	581	1,005
Number of Children (under age 18)	43	96		24	163
Number of Persons (18 to 24)	12	10	0	34	56
Number of Persons (over age 24)	178	85	0	523	786

Gender

	Sheltered			Unsheltered	Total
	Emergency	Transitional	Safe Haven		
Female	90	107	0	170	367
Male	143	84	0	411	638
Transgender (male to female)	0	0	0	0	0
Transgender (female to male)	0	0	0	0	0

Ethnicity

	Sheltered			Unsheltered	Total
	Emergency	Transitional	Safe Haven		
Non-Hispanic/Non-Latino	215	182	0	560	957
Hispanic/Latino	18	9	0	21	48

Race

	Sheltered			Unsheltered	Total
	Emergency	Transitional	Safe Haven		

Point In Time Summary for FL-504 - Daytona Beach/Daytona/Volusia, Flagler Counties CoC

White	170	94	0	431	695
Black or African-American	55	91	0	130	276
Asian	0	0	0	1	1
American Indian or Alaska Native	4	0	0	10	14
Native Hawaiian or Other Pacific Islander	0	0	0	2	2
Multiple Races	4	6	0	7	17



HALL & OGLE ARCHITECTS, INC.

AA-C000925

208 Magnolia Avenue
Daytona Beach, Florida 32114

PH: (386)255 -6163
FAX: (386)257-5650

August 11, 2017

Rev. Dr. Ronald Durham, D.D., D.P.S.
Community Relations Manager
City Manager's Office
City of Daytona Beach

Re: First Step Homeless Assistance Facility

Dr. Durham:

This letter is in response to inquiries as to Hall and Ogle's knowledge of and involvement in this project to this point.

As you are aware, Hall & Ogle has been assigned this project through our Continuing Services Contract with the City of Daytona Beach. We were engaged by the city last year to produce a study of utilizing pre-manufactured (purchased or leased) temporary construction units for this facility. This concept ultimately was not pursued by the city.

Previously, another architectural firm had developed a concept that utilized standard open tent structures and several shipping containers converted for use as health care and administrative services areas. This concept also was not pursued by the city.

Over the past year a new approach was being proposed as a temporary facility utilizing a Tensile Fabric system. This concept has been shared with the stakeholders and the city officials. The Project seems to be gaining traction as many in the community would like to see this project come into reality.

We were again contacted by the city during the month of July 2017, and asked to revisit and re-engage the project. At this time, the project was still lacking in development. The clarified objective was to design a facility utilizing conventional permanent construction systems within a building construction budget of \$2,000,000.

We feel this is an important project for our community because of the obvious humanitarian need to provide assistance to the homeless component of our area, and quite frankly, we are honored and excited to be asked again to be involved in bringing it to fruition. We jumped back into the project with earnest, and because of the span of time that had lapsed from our original involvement, we began our research back at the beginning to reacquaint ourselves with the original concepts and project history.

We discovered that the facility was still only at a conceptual level of programming to date.

JOHN E. HALL

DAVID D. OGLE

The following is a general comparison and summary of the design approaches from the studies requested of the two architectural firms involved.

Method 1

The new method proposed by the original firm is to develop the project in (3) phases to achieve full project build-out. Phase 1 of this method entails constructing a temporary facility utilizing a Tensile Fabric System. The building as proposed would utilize a raised precast concrete floor system on continuous 4 foot high stem wall foundations. It also requires the purchase or leasing of modular units (trailers) to accommodate the core functions of Administrative, Health Care, Food Services and all plumbing, shower and laundry services.

The proposed probable initial cost is \$658,600 (including modular units) which from our research appears unrealistically low. This proposed cost would need to be reviewed carefully to verify that figure. This method has the advantage of a shorter construction time, potentially one third to one half the time required to construct a permanent facility (approximately a 3-6 month time savings). We are not able to determine if the proposed method meets the requirements of the core program at this time due to lack of information.

This method proposes to utilize this temporary facility for two to five years (or as required) depending on the status of future funding for the capitol cost of building the next phase of the project. The temporary building is proposed to be removed at additional expense at that time or at a future date. The short and long term operational costs of this method should be reviewed further to determine any cost savings or added expenses over a conventional/ permanent facility. The actual costs and program compliance of this proposed method would need further development to arrive at a more concise opinion of feasibility. (Reference the attached email discussing the Tensile Fabric System in more detail.)

It should be noted that the proposed construction figure of \$658,600 is not the actual cost of the project, it is only the cost of a temporary solution that will be in addition to whatever the actual (yet to be determined) cost of the future permanent facility will be.

We would also like to acknowledge the enormous amount of work, effort, and dedication this firm has invested into the project. The project as a whole will benefit greatly from their input and research.

Method 2

Hall and Ogle continued our research to include multiple discussions and meetings with the various stakeholders in the project to refine the programming to a more functional level from which a realistic design could be produced from programmatic and budgetary standpoints. That programming was arrived at through the gracious input from several organizations who were already (and patiently) involved with the project such as Catholic Charities, whose business plan and personnel input was extremely helpful, beneficial, and greatly appreciated. Halifax Health was also instrumental in developing their part of the facility program requirements, as well as additional beneficial input from the City of Daytona Beach.

As a result of many hours of work and an evolution of the building geometry based in part on the design from the original architectural firm, a program was developed that addresses the needs envisioned by those parties dedicated to seeing this project become a reality. Based on that program, and with many more hours of work including revisiting the original design concepts, we were able to arrive at a solution that now resolves the many issues with a project of this size and nature. That solution provides for a permanent building, which revolves around separating the project into distinct functional phases so that the completed facility will meet the immediate needs in a timely fashion under the umbrella of a steadfast budget, while making the best use of the available funding allowing for future expansion under the subsequent phases of the project.

Our initial development of the building designed for Phase 1 was 16,907 square feet with a projected construction cost of \$2,960,00. That cost was driven by the program requirements expressed by the contributing parties mentioned earlier, which, unfortunately, resulted in a 30 percent overage of the budget. We immediately started developing alternate concepts to bring the building to within the budget ceiling, which resulted in (2) options presented to the city as pathways to get there.

One option was to utilize temporary modular units for a portion of the building. This would also require funding for these units to come from another source. This option was rejected by the city.

The second option was to scale back the Administrative, Health Care, and Food Service areas. These areas still function adequately for the facility at a basic level with the ability to expand all of them back to the original desired program requirements through phased construction.

As stated before, when approached by the city to revisit the project in July, our research included reviewing all of the previous work and effort put into the project by all parties involved, which included basic foundational building concepts developed by both architectural firms to identify where additional cost savings could be developed. By combining desirable elements from all concepts and manipulating the evolving plan we arrived with a building geometry that not only achieved the necessary cost savings, but also improved the functionality of the facility and its spatial adjacencies and flexibility.

These revisions also provide for additional building expansion past the desired program, allowing for the inevitable need for future growth of the facility as the community's needs change. Also, this expansion capability is before the planned Phase 2 (doubling) of the project. The revisions allow for centralizing the Dining/ Day area to the center of the facility to improve functionality and flexibility of space usage, also allowing options of how to build and condition this space creating additional cost savings.

We are presently studying additional options for utilizing various construction methods, materials, equipment and systems to enhance the balance of initial and long term costs.

After great effort and many hours of work, we have achieved a schematic design that meets the basic program requirements with the ability to achieve the enhanced program desires through a phased project schedule, resulting in a building that is 15,910 square feet. Our projection of probable cost is \$2,007,000, which is now within 0.35 percent of the budget ceiling. Frank Van Pelt, Technical Services Division Director for the City of Daytona Beach Public Works Department has stated that he feels that

projected cost will actually be closer to \$1,980,000. Additionally, we have also developed an alternate (if required) to reduce the building cost to \$1,750,000. This option reduces the programmed women's population to 24 and the overall population to 102.


We are now finally confident that the City of Daytona Beach will be able to build this much needed permanent facility that meets the core functionality requirements utilizing conventional construction techniques and systems within the \$2,000,000 budgetary ceiling.

This permanent facility will provide a dynamic, functional, first phase core that can expand and grow as the needs of the community change over time in an efficient and cost effective manner. Attached to this letter are reference drawing sheets A2.0.0, A2.0.1 and A2.0.2 for a graphical depiction of the final conceptual design options.

In conclusion, we would like to express our belief in this project, our recognition of its importance to our community and its benefit to many of our community that require the assistance it will provide. Now is the time to build on the efforts and foundation that has been built by so many involved to develop a Homeless Assistance Facility that serves this community and gives all in the homeless community a First Step towards Home!

We thankfully appreciate the opportunity to work with you on this project. Let me know if you have any questions.

Respectfully,

A handwritten signature in black ink, appearing to read "John E. Hall". The signature is stylized with a large, looping initial "J" and "H".

John E. Hall, Principal/ President

Hall & Ogle Architects, Inc.

----- Forwarded Message -----

Subject:First Step Shelter Roofing Construction Systems---Tensile Fabric Roof/ Wall System and Conventional Roofing and Wall Systems

Date:Tue, 8 Aug 2017 20:34:29 +0000

From:VanPelt, Frank <VanPeltFrank@CODB.US>

To:john Hall <jhall@hoarchitects.com>

John,

For your use...

The following observations and comparisons are based upon the data provided in the Memo that I received and The City's institutional experience since its incorporation in 1876 constructing, owning and maintaining conventional roofing and wall systems for governmental, performance venues and other community buildings of all sizes and types:

- The Tensile Fabric System that is proposed is not a PTFE impregnated Fiberglass system like the systems used in the 3 example projects that are listed in the Memo and are located in Canada and the western United States.
- The Tensile Fabric material system specified by the vendor for use on the Shelter *is an 18 oz. laminated PVC Tensile Fabric and is not a PTFE impregnated Fiberglass system.*
- The PVC in the Tensile Fabric material is sensitive over time to damage from and will be constantly exposed to Florida's high level of UV (sunlight) transmission requiring specialized maintenance to meet manufacturer's minimum projected life expectancy
- On the website of Big Top Manufacturing, the vendor supplying the PVC Tensile Fabric product, the Specifications chart shows that PVC Tensile Fabric has a 5 Year Warranty maximum
- The specification chart also shows an anticipated 10 to 12 year total lifetime expectancy meaning that total replacement of the roof and wall system is anticipated at that time or before.
- Conventional roofing systems have manufacturer's warranties that range from 15 to 20 years and manufacturer's anticipated lifetime expectancies that range from 20 to 50 years and wall systems with total lifetime expectancies of up to 100 years.
- Given its anticipated lifetime and manufacturer's warranty period it appears that the use of a PVC Tensile Fabric roofing and wall system is intended for the construction of a more interim temporary structure where the system will be discarded upon the construction of a permanent structure with conventional roof and wall system structure.
- The use of conventional local proven roofing and wall systems will provide a permanent building core which can be expanded upon while maintaining the roof and essential wall system in place with minimum construction impacts to its residents, equipment and other HVAC, electrical and plumbing systems while the expansion is underway.
- The PVC material used in the Tensile Fabric is common in plastic product manufacturing. Its weather resistance, wind-load resistance and structural integrity degrades more rapidly of over time than conventional roofing and wall system materials when equally exposed to Florida's high UV (sunlight) levels and stormy weather events as indicated by the short warranty period and total replacement life expectancy.
- The PVC fabric would require specialized maintenance (materials, means of access, patching methods, etc... which is beyond the capabilities of City staff and experienced local vendors have not yet been found locally.

- City staff is very familiar with the operation and maintenance of conventional roof and wall systems and if needed during catastrophic wind events additional expertise is readily available through numerous competitive local experienced vendors that are already under continuing services contracts to the City.
- It is intuitive when applying an industry standard energy efficiency calculation for sizing Heating and Air Conditioning systems and their annual usage of power that the large overhead volume of air space will not cool, heat and dehumidify efficiently over the lifetime of the structure adding significantly to the operating cost of the building and the arched steel beams will require electrical and mechanical systems to have specialized and more expensive designs to be installed between and on the widely spaced overhead arched beams and top provide the operating environment for the electronic technology that will be used throughout the administrative areas.

SUMMARY

- The use of conventional roofing and wall systems has been repeatedly time tested in a wide range of environments across the world as well as locally showing that it produces the most efficient, life cycle cost-effect and durable structure and provides the interior environment that meets the needs of both human beings and technology through energy efficient means with the capability of future expansion with minimum disruption to existing operations.
 - The use of PVC Tensile Fabric for the roof and walls of the structure will take less time for construction and may be 5% to 8% cheaper upfront than conventional systems but it is still anticipated to be an interim throw away structure when replaced by a permanent conventional roof and wall system structure at a later date. The total life cycle cost of a PVC Tensile Fabric roof/wall system is intuitively more expensive due to operational and maintenance costs and requires significant disruption of existing operations hen expansion is required otherwise it would be the industry standard type of construction across the nation and locally.

Frank M. Van Pelt, CPM
 Technical Services Division Director,
 Public Works Department
 City of Daytona Beach, FL 32115
 (386)671-8635

BASE BID PLAN

BUILDING AREAS	
ADMIN. RECP'T/ OFFICES	996 SF
HEALTH WARD AREA	1,366 SF
SECURE ENTRANCE	164 SF
FLEX. SPACE/ DINING AREA	2,720 SF
MAIN CIRCULATION AREA	1,992 SF
WOMEN'S MISC. AREA	930 SF
WOMEN'S DORM AREA	1,904 SF
WOMEN'S TOILETS/ SHOWERS	566 SF
MEN'S MISC. AREA	920 SF
MEN'S DORM AREA	2,630 SF
MEN'S TOILETS/ SHOWERS	566 SF
FULL SERVICE KITCHEN	526 SF
COVERED DECK AREA	500 SF
TOTAL CONDITIONED AREAS	11,166 SF
TOTAL NON-CONDITIONED AREAS	4,294 SF
TOTAL AREA	15,910 SF

NOTE:
AREAS SMALLER THAN PROGRAM REQUIREMENTS
NEED PROGRAM REVIEW/ ACCEPTANCE
W/ STAKEHOLDERS AND ENGINEERS REVIEW

52 BEDS MIN. 125 BEDS MAX
146 MAX. W/ 21 OVERFLOW
40/60 SPLIT WOMEN TO MEN



FLOOR PLAN
FIRST STEP HOMELESS SHELTER PHASE 1
SCALE: 1/8" = 1'-0"
BASE BID PLAN

HALL & OGLE ARCHITECTS, INC.
200 W. PALM BEACH BLVD. SUITE 1014
DAYTONA BEACH, FLORIDA 32114
PH: 386.254.1600
WWW.HALLANDOGLE.COM

FIRST STEP HOMELESS SHELTER
WEST INTERNATIONAL SPEEDWAY BLVD.
DAYTONA BEACH, FLORIDA

NO.	REVISION/ SUBMISSIONS	DATE

COMMISSION NO. 1613
SCALE
PROJECT ARCH. # 00
DRAWN BY
CHECKED BY
DATE 2-14-11-2017

ALT. ONE OPTION

BUILDING AREAS	
ADMIN. RECEPT. OFFICES	996 SF
SECURE ENTRY	1,384 SF
SECURE ENTRANCE	184 SF
FLEX SPACE/DINING AREA	2,400 SF
MAIN CIRCULATION AREA	1,694 SF
WOMEN'S MISC. AREA	438 SF
WOMEN'S DORM AREA	786 SF
WOMEN'S TOILETS / SHOWERS	280 SF
MEN'S MISC. AREA	920 SF
MEN'S DORM AREA	2,038 SF
MEN'S TOILETS / SHOWERS	568 SF
FULL SERVICE KITCHEN	928 SF
COVERED DECK AREA	500 SF
TOTAL CONDITIONED AREAS	9,402 SF
TOTAL NON-CONDITIONED AREAS	4,294 SF
TOTAL AREA	13,696 SF

NOTE:

AREAS SMALLER THAN PROGRAM REQUIREMENTS
NEED PROGRAM REVIEW ACCEPTANCE
W/ STAKEHOLDERS AND ENGINEERS REVIEW

51 BEDS MIN. 102 BEDS MAX
223 MAX. W/ 21 OVERFLOW
30/70 SPLIT WOMEN TO MEN



FLOOR PLAN
FIRST STEP HOMELESS SHELTER PHASE 1
SCALE: 1/8" = 1'-0"

ALTERNATE 1 OPTION

<p>HALL & OGLE ARCHITECTS, INC. 117 W. PALM BEACH BLVD., SUITE 101 PALM BEACH, FLORIDA 33480 TEL: 561-832-1111 WWW.HALLANDOGLE.COM</p>	PROJECT NO. 1613 PROJECT ARCH. 2-1 DRAWING NO. 2-1 CHECKED BY: [Signature] DATE: 01-11-2017
	SHEET NO. A2.01 SHEET TITLE: FIRST STEP HOMELESS SHELTER WEST INTERNATIONAL SPEEDWAY BLVD. DAYTONA BEACH, FLORIDA

OPTION AAA

BUILDING AREAS

ADMIN RCPTY/ OFFICES	1,776 SF
HEALTH WARD AREA	2,346 SF
SECURE ENTRANCE	164 SF
MAIN CURULATION AREA	2,400 SF
FLEX SPACE/DINING AREA	1,884 SF
WOMEN'S MISC AREA	1,900 SF
WOMEN'S DORM AREA	2,300 SF
WOMEN'S TOILETS/SHOWERS	884 SF
MEN'S MISC AREA	1,900 SF
MEN'S DORM AREA	3,360 SF
MEN'S TOILETS/SHOWERS	884 SF
FULL SERVICE KITCHEN	1,540 SF
COVERED DECK AREA	500 SF
TOTAL CONDITIONED AREAS	17,498 SF
TOTAL NON-CONDITIONED AREAS	4,294 SF
TOTAL AREA	21,792 SF

NOTE:
AREAS SMALLER THAN PROGRAM REQUIREMENTS
NEED PROGRAM REVIEW ACCEPTANCE
W/ STATE FOLDERS AND ENGINEERS REVIEW.

94 BEDS MIN. 189 BEDS MAX.
210 MAX W/ 21 OVERFLOW
40/60 SPLIT WOMEN TO MEN



HALL & OGBLE ARCHITECTS, INC.
FIRST STEP HOMELESS SHELTER
WEST INTERNATIONAL SPEEDWAY BLVD.
DAYTONA BEACH, FLORIDA

NO.	REVISION/ISSUES	DATE
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
30		
31		
32		
33		
34		
35		
36		
37		
38		
39		
40		
41		
42		
43		
44		
45		
46		
47		
48		
49		
50		
51		
52		
53		
54		
55		
56		
57		
58		
59		
60		
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
71		
72		
73		
74		
75		
76		
77		
78		
79		
80		
81		
82		
83		
84		
85		
86		
87		
88		
89		
90		
91		
92		
93		
94		
95		
96		
97		
98		
99		
100		

FLOOR PLAN
FIRST STEP HOMELESS SHELTER PHASE 1
OPTION AAA

SCALE	1/8" = 1'-0"
COMMISSION NO.	1613
PROJECT ARCH.	J.P.
DRAWN BY	J.P.
CHECKED BY	J.P.
DATE	2-14-11-2011
SHEET NO.	A2.0.2
DATE	2-14-11-2011

JOHN E. HALL ARCHITECT

FLOOR PLAN
FIRST STEP HOMELESS SHELTER PHASE I
OPTION AAA



OPTION AAA

BUILDING AREAS

ADMIN. RECVY/ OFFICES	1,776 SF
HEALTH WARD AREA	2,248 SF
SECURE ENTRANCE	194 SF
FLEX SPACE/DINING AREA	2,400 SF
MAIN CIRCULATION AREA	1,894 SF
WOMEN'S MISC. AREA	1,300 SF
WOMEN'S DORM AREA	2,290 SF
WOMEN'S TOILETS/ SHOWERS	864 SF
MEN'S MISC. AREA	1,300 SF
MEN'S DORM AREA	3,966 SF
MEN'S TOILETS/ SHOWERS	864 SF
FULL SERVICE KITCHEN	1,540 SF
COVERED DECK AREA	500 SF
TOTAL CONDITIONED AREAS	17,466 SF
TOTAL NON-CONDITIONED AREAS	4,294 SF
TOTAL AREA	21,760 SF

NOTE:
AREAS SMALLER THAN PROGRAM REQUIREMENTS
NEED PROGRAM REVIEW/ ACCEPTANCE
W/ STAKEHOLDERS AND ENGINEERS REVIEW

94 BEDS MIN. 189 BEDS MAX
210 MAX. W/ 21 OVERFLOW
40/80 SPLIT WOMEN TO MEN

HALL & OGLE
ARCHITECTS, INC.
300 W. MAIN ST. SUITE 100
DAYTONA BEACH, FLORIDA 32114
TEL: 386.255.1111
WWW.HALLANDOGLE.COM

FIRST STEP HOMELESS SHELTER
WEST INTERNATIONAL SPEEDWAY BLVD.
DAYTONA BEACH, FLORIDA

NO. <input type="checkbox"/>	REVISION	DATE

PROJECT TITLE	COMMISSION NO.	SCALE
1613		
PROJECT NO.	DRAWN BY	SHEET NO.
DATE: 2-21-2017		A202

JOHN E. WALL, ARCHITECT

BASE BID PLAN

BUILDING AREAS

ADMIN RECPY/ OFFICES	996 SF
HEALTH WARD AREA	1,366 SF
SECURE ENTRANCE	164 SF
FLEX SPACE/ DINING AREA	2,720 SF
MAIN CIRCULATION AREA	1,992 SF
WOMENS MISC. AREA	620 SF
WOMENS DORM AREA	1,594 SF
WOMENS TOILETS/ SHOWERS	568 SF
MENS MISC. AREA	620 SF
MENS DORM AREA	2,639 SF
MENS TOILETS/ SHOWERS	568 SF
FULL SERVICE KITCHEN	928 SF
COVERED DECK AREA	500 SF
TOTAL CONDITIONED AREAS	11,168 SF
TOTAL NON-CONDITIONED AREAS	4,294 SF
TOTAL AREA	15,462 SF

NOTE:
AREAS SMALLER THAN PROGRAM REQUIREMENTS
NEED PROGRAM REVIEW/ ACCEPTANCE
W/ STAKEHOLDERS AND ENGINEERS REVIEW

62 BEDS MIN. 125 BEDS MAX
146 MAX. W/ 21 OVERFLOW
40/60 SPLIT WOMEN TO MEN



FLOOR PLAN
FIRST STEP HOMELESS SHELTER PHASE 1
SCALE: 1/8\"/>

BASE BID PLAN

HALL & OGLE ARCHITECTS, INC.
100 BANKING PLAZA AVENUE, SUITE 10114
DAYTONA BEACH, FLORIDA 32114
407.255.1111
www.hallandogle.com

FIRST STEP HOMELESS SHELTER
WEST INTERNATIONAL SPEEDWAY BLVD.
DAYTONA BEACH, FLORIDA

NO. / TITLE	DATE
REVISION	REVISIONS
COMMISSION NO.	SCALE
1613	
PROJECT NO./ DRAWING NO.	SHEET NO.
1613 / 1	A2.0.0
CHECKED BY	DATE
JOHN E. HALL	2-JULY-2013

ALT. ONE OPTION

BUILDING AREAS

ADMIN. REPT./ OFFICES	966 SF
HEALTH WARD AREA	1,366 SF
SECURE ENTRANCE	164 SF
FLEX. SPACE/DINING AREA	2,400 SF
MAIN CIRCULATION AREA	1,084 SF
WOMEN'S MISC. AREA	438 SF
WOMEN'S DORM AREA	786 SF
WOMEN'S TOILETS/ SHOWERS	280 SF
MEN'S MISC. AREA	920 SF
MEN'S DORM AREA	2,638 SF
MEN'S TOILETS/ SHOWERS	568 SF
FULL SERVICE KITCHEN	928 SF
COVERED DECK AREA	500 SF
TOTAL CONDITIONED AREAS	9,402 SF
TOTAL NON-CONDITIONED AREAS	4,294 SF
TOTAL AREA	13,696 SF

NOTE:
AREAS SMALLER THAN PROGRAM REQUIREMENTS
NEED PROGRAM REVIEW/ ACCEPTANCE
W/ STAKEHOLDERS AND ENGINEERS REVIEW

51 BEDS MIN. 102 BEDS MAX
123 MAX. W/ 21 OVERFLOW
3070 SPOT WOMEN TO MEN



FLOOR PLAN
FIRST STEP HOMELESS SHELTER PHASE 1
SCALE: 1/8" = 1'-0"

ALTERNATE 1 OPTION

HALL & OGLE ARCHITECTS, INC.
200 MADISON AVENUE
SUITE 1200
DAYTONA BEACH, FLORIDA 32114
407.251.1111

FIRST STEP HOMELESS SHELTER
WEST INTERNATIONAL SPEEDWAY BLVD.
DAYTONA BEACH, FLORIDA

NO.	REVISION	DATE

DATE	
SCALE	
COMMISSION NO.	1613
PROJECT ARCH. #	
DRAWN #	
CHECKED #	
SHEET NO.	A2.01
DATE	2-11-2017

JOHN E. HALL ARCH0077



HALL & OGLE ARCHITECTS, INC.

AA-C000925

208 Magnolia Avenue
Daytona Beach, Florida 32114

PH: (386)255 -6163
FAX: (386)257-5650

August 22, 2017

Rev. Dr. Ronald Durham, D.D., D.P.S.
Community Relations Manager
City Manager's Office
City of Daytona Beach

Re: First Step Homeless Assistance Facility
Additional Facility Funding

Dr. Durham:

In response to your and Mr. Small's questions about what options would be available for the First Step Shelter if the State was to provide an additional \$1.5 million to the project, we would like to offer the following possibilities:

1. Provide \$250,000 of the funds to further develop the site work package above the current base design.
2. The base bid design would be able to expand to the full program requirements for phase 1 of the project:
 - +1,050 sf additional area for Health Services.
 - +840 sf additional area to Administration Services
 - +650 sf additional area to Food Services
3. Fully enclose the Central Area with glazing and provide conditioned space.
4. Design facility base plan to meet state requirements for a hurricane shelter.
5. Provide full I.T. / security equipment packages above base minimums.
6. Potentially grow the flex space to seat an additional 32 people, allowing more flexibility / functional use.
7. Provide 12' operable wall at flex space for added acoustical / functionality of flex space.
8. Improve acoustic performance of the facility in all areas.
9. Allow additional options in means/ methods and construction materials.
10. Potential for providing a permanent emergency generator (verses a portable unit brought in when emergency needs arise).

JOHN E. HALL

DAVID D. OGLE

These are some of the expanded services and improved capabilities of the facility if the additional funds become available.

Let me know if you have any questions.

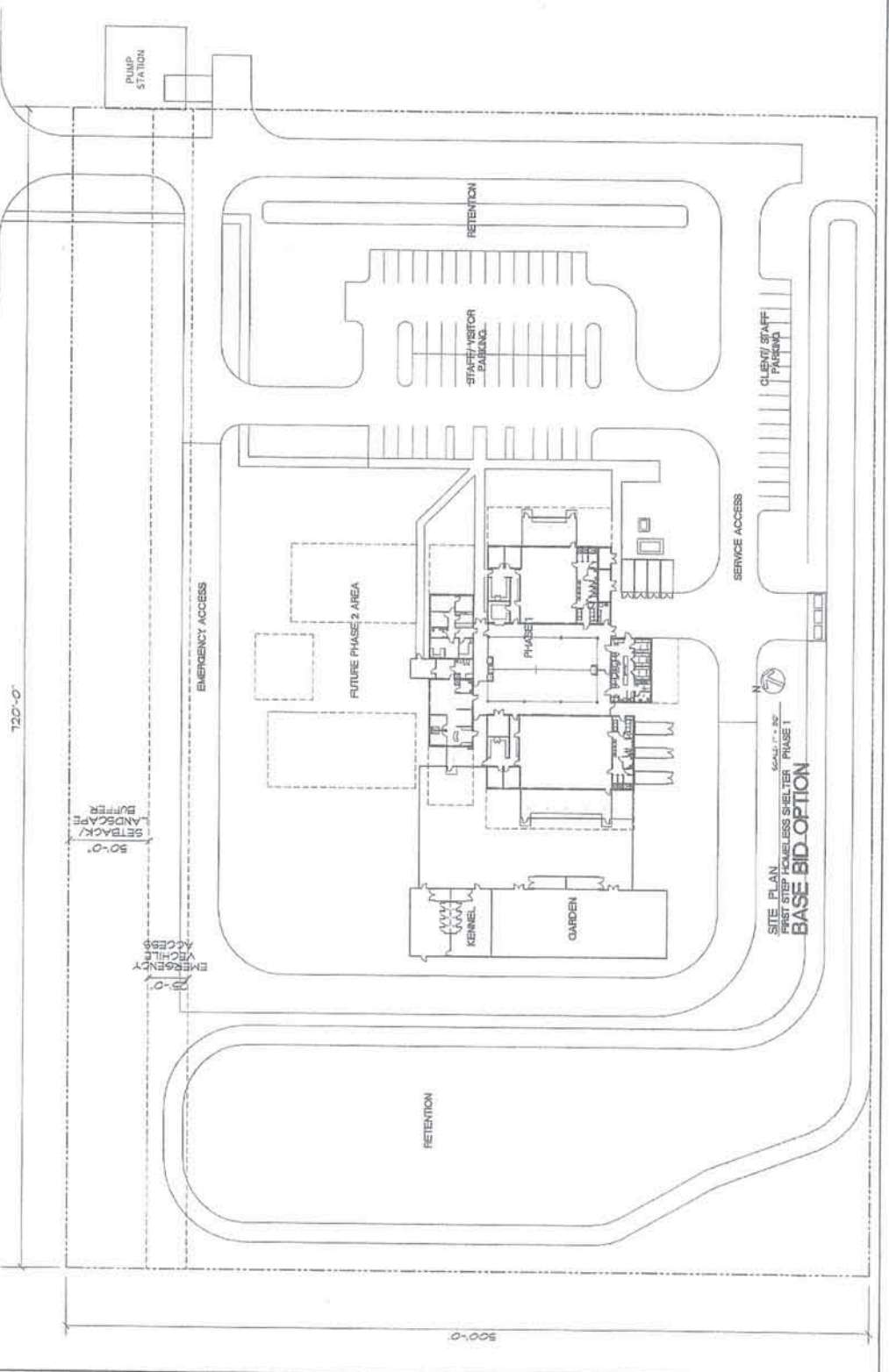
Respectfully,

A handwritten signature in black ink, appearing to read "John E. Hall". The signature is stylized with a large, looping initial "J" and "H".

John E. Hall, Principal/ President

Hall & Ogle Architects, Inc.

WEST INTERNATIONAL SPEEDWAY BLVD.



BASE BID PLAN BUILDING AREAS

ADMIN RECFIT / OFFICES	1,886 SF
HEALTH WARD AREA	184 SF
SECURE ENTRANCE	
FLEX SPACE/DINING AREA	2,730 SF
MAIN CIRCULATION AREA	1,422 SF
WOMEN'S MISC. AREA	150 SF
WOMEN'S DORM AREA	1,534 SF
WOMEN'S TOILETS / SHOWERS	568 SF
MEN'S MISC. AREA	820 SF
MEN'S DORM AREA	2,638 SF
MEN'S TOILETS / SHOWERS	568 SF
FULL SERVICE KITCHEN	928 SF
COVERED DECK AREA	500 SF
TOTAL CONDITIONED AREAS	11,084 SF
TOTAL NON-CONDITIONED AREAS	4,742 SF
TOTAL AREA	15,826 SF

NOTE: AREAS SMALLER THAN PROGRAM REQUIREMENTS NEED PROGRAM REVIEW/ ACCEPTANCE W/ STAKEHOLDERS AND ENGINEERS REVIEW.

62 BEDS MIN. 125 BEDS MAX
140 MAX. W/ 21 OVERFLOW
40/60 SPLIT WOMEN TO MEN

HALL & OGLE ARCHITECTS, INC.
205 HANCOCK AVENUE, SUITE 101
DAYTONA BEACH, FL 32110
TEL: 386.254.2342 FAX: 386.254.2343

FIRST STEP HOMELESS SHELTER
WEST INTERNATIONAL SPEEDWAY BLVD.
DAYTONA BEACH, FLORIDA

DATE	
REVISIONS	
COMMISSION NO.	1613
SCALE	
SHEET NO.	A10
PROJECT ARCH. DR.	
CONCRETE. PL.	
DATE: 3-MAY-2011	

BASE BID PLAN

BUILDING AREAS

ADMIN RECPY/ OFFICES	996 SF
HEALTH WARD AREA	1,366 SF
SECURE ENTRANCE	184 SF
FLEX. SPACE/DINING AREA	2,720 SF
MAIN CIRCULATION AREA	1,962 SF
WOMEN'S MSC. AREA	920 SF
WOMEN'S DORM AREA	1,564 SF
WOMEN'S TOILETS/ SHOWERS	568 SF
MEN'S MSC. AREA	920 SF
MEN'S DORM AREA	2,638 SF
MEN'S TOILETS/ SHOWERS	568 SF
FULL SERVICE KITCHEN	928 SF
COVERED DECK AREA	500 SF
TOTAL CONDITIONED AREAS	11,098 SF
TOTAL NON-CONDITIONED AREAS	4,294 SF
TOTAL AREA	15,392 SF

NOTE:
AREAS SMALLER THAN PROGRAM REQUIREMENTS
NEED PROGRAM REVIEW/ ACCEPTANCE
W/ STAKEHOLDERS AND ENGINEERS REVIEW.

62 BEDS MIN. 125 BEDS MAX
146 MAX. W/ 21 OVERFLOW
40/60 SPLIT WOMEN TO MEN

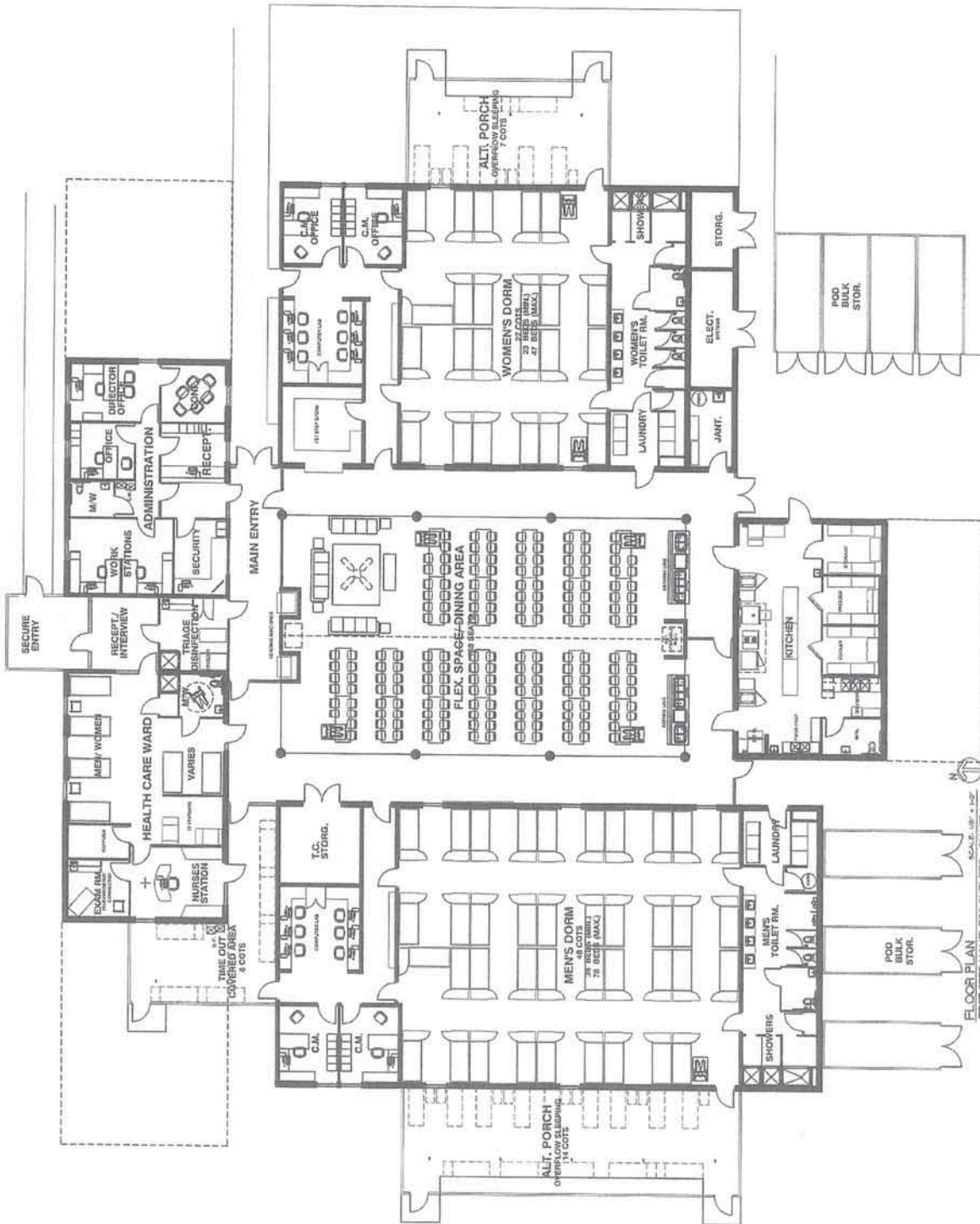


FIRST STEP HOMELESS SHELTER
WEST INTERNATIONAL SPEEDWAY BLVD.

DAYTONA BEACH, FLORIDA

NO.	REVISION/ SUBMISSION	DATE

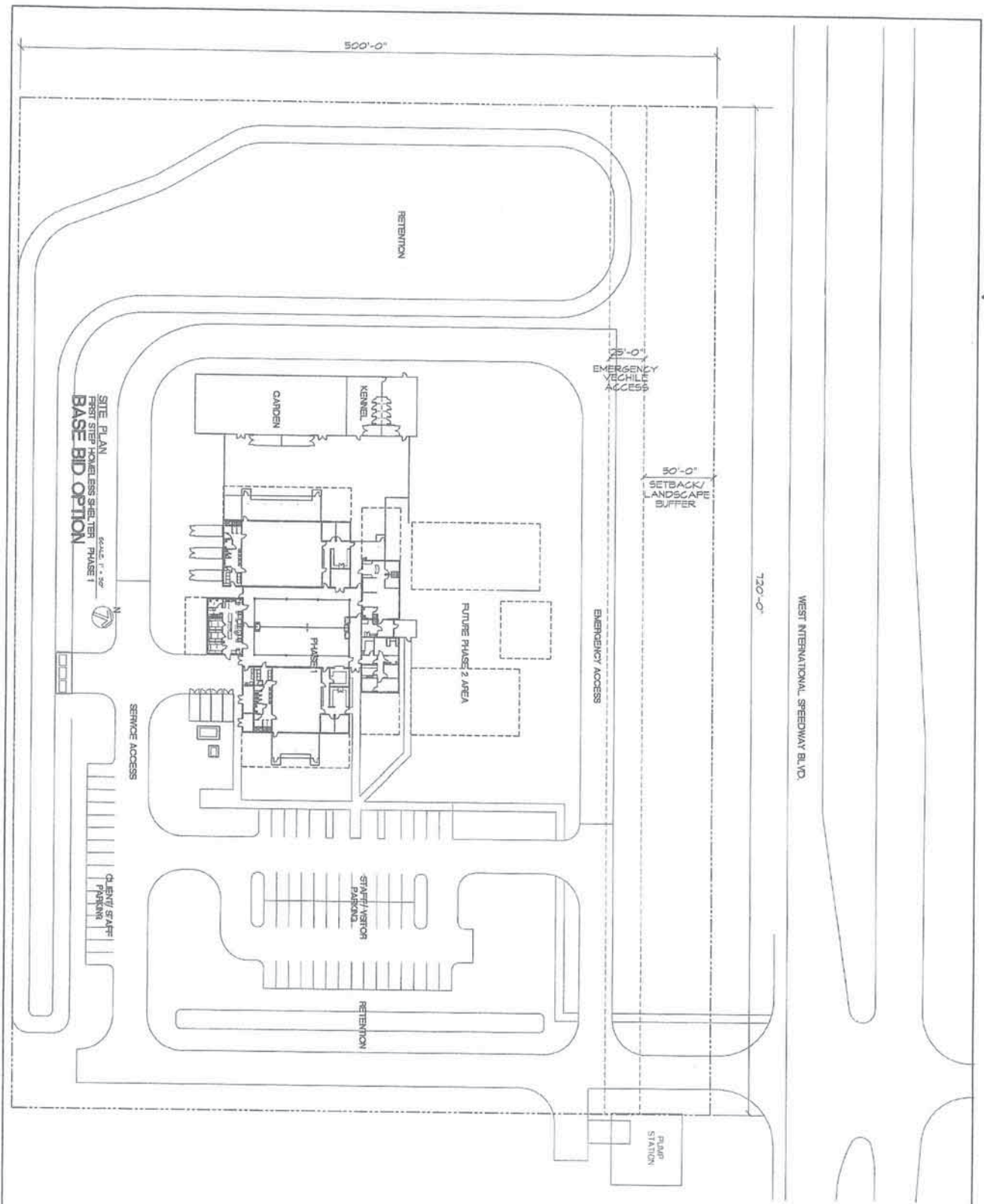
PROJECT NO.	1610	SCALE	
OWNER		PROJECT NOCH. NO.	
DATE		DESIGNED BY	A2.0.0
DATE 3-11-2011		DRAWN BY	
DATE 3-11-2011		DATE 3-11-2011	



FLOOR PLAN
SCALE: 1/8" = 1'-0"
FIRST STEP HOMELESS SHELTER PHASE 1

BASE BID PLAN

FINAL 8-14



SITE PLAN
FIRST STEP HOMELESS SHELTER PHASE I
SCALE: 1/4" = 1'-0"

BASE BID PLAN

BUILDING AREAS	
ADMIN/RECEPTION OFFICES	1066 SF.
HEALTH SERVICES	1310 SF.
SECURE ENTRANCE	164 SF.
REAR SPACE/DINING AREA	2720 SF.
MAIN CIRCULATION AREA	1746 SF.
WOMEN'S HSG. AREA	520 SF.
WOMEN'S TOILETS/SHOWERS	588 SF.
MEN'S HSG. AREA	620 SF.
MEN'S TOILETS/SHOWERS	588 SF.
FULL SERVICE KITCHEN	928 SF.
COVERED DECK AREA	500 SF.
TOTAL CONTRACTED AREAS	11098 SF.
TOTAL NON CONTRACTED AREAS	1474 SF.
TOTAL AREA	15290 SF.

NOTE
AREAS SMALLER THAN PROGRAM REQUIREMENTS
NEED PROGRAM REVIEW ACCEPTANCE
IN STAFF/CLIENTS AND ENGINEERS REVIEW.

92 BEDS MAX. 125 BEDS MAX
14 BATHS 17 BATHS MAX
40/90 SF LIT WOMEN TO MEN

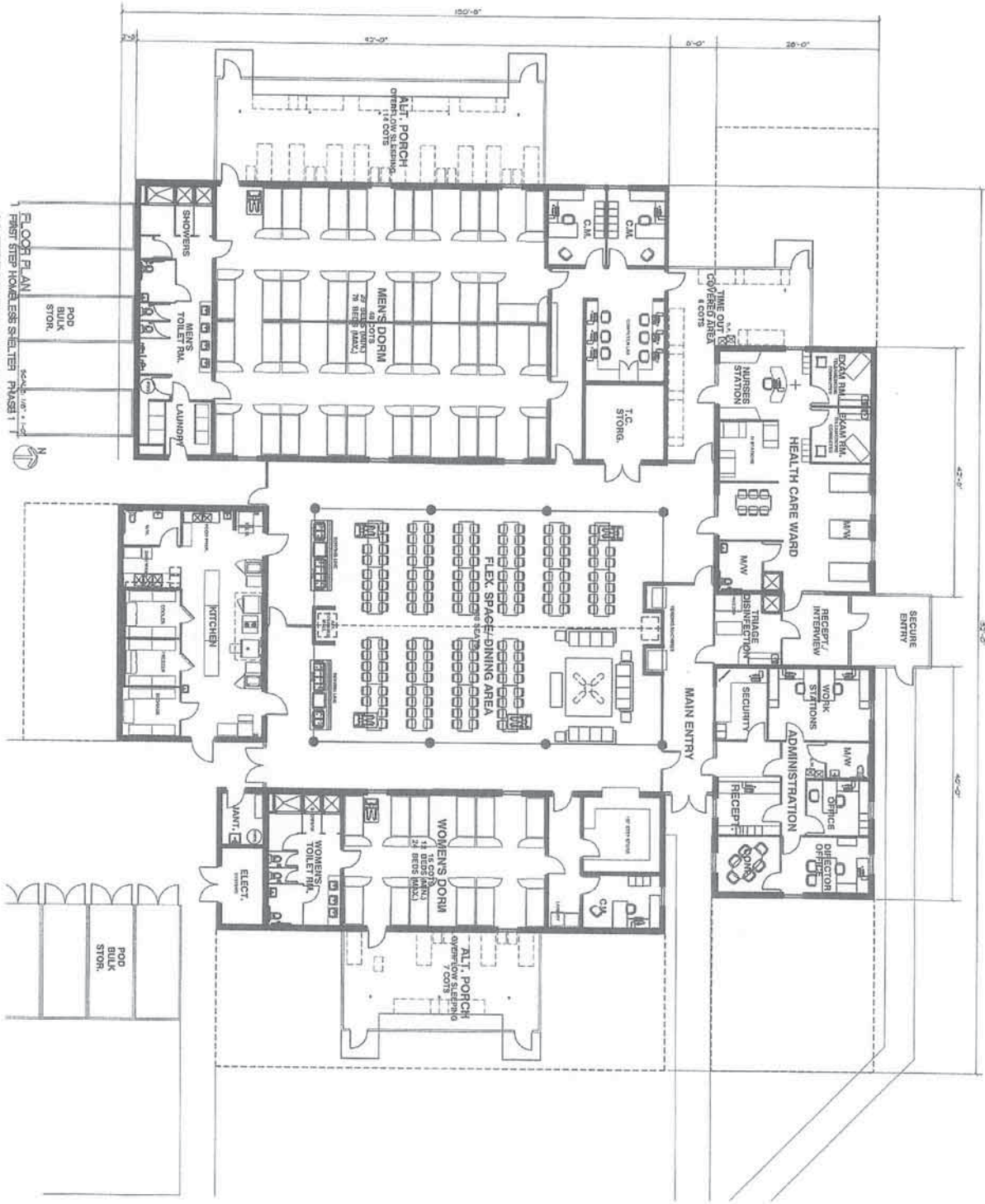
HALL & OGLE ARCHITECTS, INC.
200 INTERNATIONAL CENTER
DAYTONA BEACH, FLORIDA 32114
PHONE 321.254.1111
FAX 321.254.1112

FIRST STEP HOMELESS SHELTER
WEST INTERNATIONAL SPEEDWAY BLVD.
DAYTONA BEACH, FLORIDA

NO.	REVISION/DESCRIPTION	DATE

SCALE	DATE
1/8" = 1'-0"	1613
PROJECT NO.	1613
CLIENT	987654321
CHECKED BY	
DATE	08/14/13

JOHN G. HALL, ARCHITECT



FLOOR PLAN
FIRST STEP HOMELESS SHELTER PHASE 1
ALTERNATE 1 OPTION
Scale: 1/8" = 1'-0"

ALT. ONE OPTION

BUILDING AREAS	
ADMIN RECEIPT OFFICES	998 SF
HEALTH WARD AREA	1,386 SF
SECURE ENTRANCE	194 SF
FLEX. SPACE/DINING AREA	2,400 SF
MAIN CIRCULATION AREA	1,894 SF
WOMENS DORM AREA	438 SF
WOMENS DORM AREA	785 SF
WOMENS TOILETS/SHOWERS	280 SF
MENS DORM AREA	920 SF
MENS DORM AREA	2,638 SF
MENS TOILETS/SHOWERS	293 SF
FULL SERVICE KITCHEN	928 SF
COVERED DECK AREA	300 SF
TOTAL CONDITIONED AREAS	9,402 SF
TOTAL NON-CONDITIONED AREAS	4,294 SF
TOTAL AREA	13,696 SF

NOTE: AREAS SMALLER THAN PROGRAM REQUIREMENTS
NEED PROGRAM REVIEW/ACCEPTANCE
W/ STATE FUNDERS AND SHAREHOLDERS REVIEW

51 BEDS MIN, 102 BEDS MAX
231 MAX. W/ 21 OVERFLOW
50/70 SPLIT WOMEN TO MEN

HALL & OGLE
ARCHITECTS, INC.
2100 W. UNIVERSITY AVENUE, SUITE 100
DAVENPORT, FLORIDA 33424
PHONE: 888.878.7888
FAX: 888.878.7888
WWW.HALLANDOGLE.COM

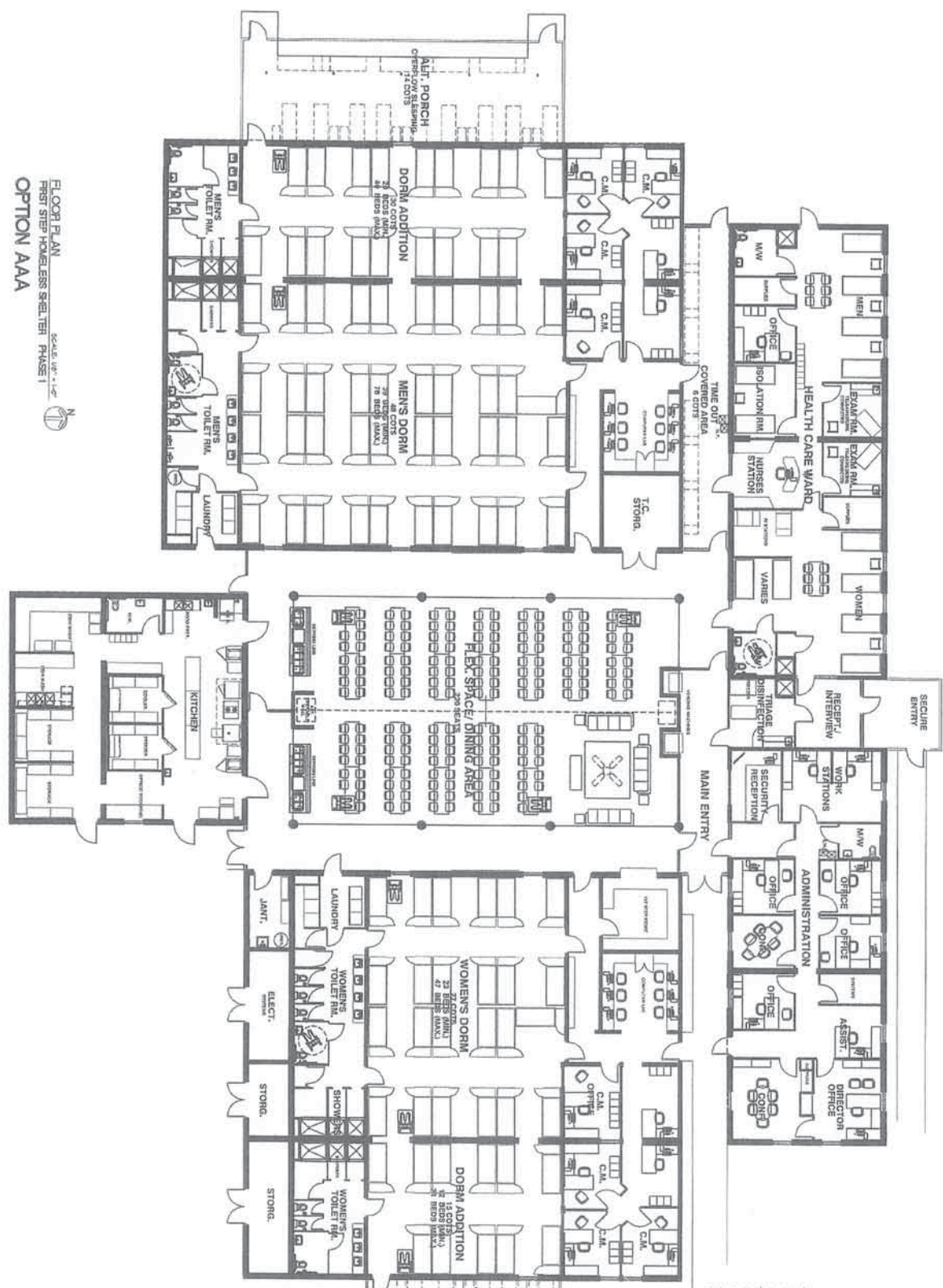
FIRST STEP HOMELESS SHELTER
WEST INTERNATIONAL SPEEDWAY BLVD.
DAYTONA BEACH, FLORIDA

NO.	REVISIONS/DESCRIPTIONS	DATE

PROJECT NO. 1613
DATE: 8-14-14
SCALE: A2.01
DRAWN BY: [blank]
CHECKED BY: [blank]

FINAL 8-14

FLOOR PLAN
 FIRST STEP HOMELESS SHELTER PHASE I
 OPTION AAA



OPTION AAA

BUILDING AREAS	1776 SF
HEALTH RECFY/ OFFICES	2746 SF
HEALTH WARD AREA	164 SF
SECURE ENTRANCE	
RE-SPACE/DINING AREA	2,400 SF
MAN OFFICE/ALTON AREA	1,069 SF
WOMEN'S WASH AREA	1,300 SF
WOMEN'S TOILET/SHOWERS	2,500 SF
WOMEN'S TOILET/SHOWERS	864 SF
MEN'S WASH AREA	1,300 SF
MEN'S DORM AREA	1,380 SF
MEN'S TOILET/SHOWERS	664 SF
FULL SERVICE KITCHEN	1,540 SF
COVERED DECK AREA	500 SF
TOTAL COVERED AREAS	17,496 SF
TOTAL NON-COVERED AREAS	4,294 SF
TOTAL AREA	21,790 SF

NOTE: AREAS SMALLER THAN PROGRAM REQUIREMENTS
 NEED PROGRAM REVIEW/ ACCEPTANCE
 W/ STAKEHOLDERS AND ENGINEERS REVIEW

94 BEDS MIN. 188 BEDS MAX
 201 MAX. W/ 21 OVERFLOW
 40/80 SPLIT WOMEN TO MEN

HALL & OSBLE
 ARCHITECTS, INC.
 280 W. MONROE ST. SUITE 2114
 DAYTONA BEACH, FLORIDA 32114
 PHONE: 386-253-8888
 FAX: 386-253-8889
 WWW.HALLANDOSBLE.COM

FIRST STEP HOMELESS SHELTER
 WEST INTERNATIONAL SPEEDWAY BLVD.
 DAYTONA BEACH, FLORIDA

NO.	REVISION/DESCRIPTION	DATE

DATE	1613	SCALE
PROJECT ARCH. NO.	SHEET NO.	
DESIGNED BY	A202	
DATE OF PLAN		

JOHN R. HILL, ARCHITECT

FIRST STEP HOMELESS ASSISTANCE SHELTER DAYTONA BEACH, FLORIDA FINAL SITE PLAN DEV #2017-00

GENERAL NOTES

- 1 EXISTING ZONING: C-1 (COMMERCIAL CENTER)
- 2 PROJECT LOCATION: 1515 W. 12TH STREET, DAYTONA BEACH, FLORIDA 32114
- 3 PREPARED BY: PARKER MYNCHENBERG & ASSOCIATES, INC. 5125 W. 12TH STREET, SUITE 100, DAYTONA BEACH, FLORIDA 32114
- 4 PROJECT NO.: 1701
- 5 DATE: 01/12/17
- 6 SCALE: AS SHOWN
- 7 PROJECT NO.: 1701
- 8 DATE: 01/12/17
- 9 PROJECT NO.: 1701
- 10 DATE: 01/12/17
- 11 PROJECT NO.: 1701
- 12 DATE: 01/12/17
- 13 PROJECT NO.: 1701
- 14 DATE: 01/12/17
- 15 PROJECT NO.: 1701
- 16 DATE: 01/12/17
- 17 PROJECT NO.: 1701
- 18 DATE: 01/12/17

GENERAL INFORMATION

PROJECT NAME: FIRST STEP HOMELESS ASSISTANCE SHELTER PHASE 1B
OWNER: DAYTONA BEACH CITY
DESIGN ENGINEER: PARKER MYNCHENBERG & ASSOCIATES, INC.
DESIGN ARCHITECT: PARKER MYNCHENBERG & ASSOCIATES, INC.
LANDSCAPE ARCHITECT: PARKER MYNCHENBERG & ASSOCIATES, INC.
STRUCTURAL ENGINEER: PARKER MYNCHENBERG & ASSOCIATES, INC.
MECHANICAL ENGINEER: PARKER MYNCHENBERG & ASSOCIATES, INC.
ELECTRICAL ENGINEER: PARKER MYNCHENBERG & ASSOCIATES, INC.
PLUMBING ENGINEER: PARKER MYNCHENBERG & ASSOCIATES, INC.
SOILS ENGINEER: PARKER MYNCHENBERG & ASSOCIATES, INC.
PAVING ENGINEER: PARKER MYNCHENBERG & ASSOCIATES, INC.
SEWER ENGINEER: PARKER MYNCHENBERG & ASSOCIATES, INC.
TRAFFIC ENGINEER: PARKER MYNCHENBERG & ASSOCIATES, INC.
ENVIRONMENTAL ENGINEER: PARKER MYNCHENBERG & ASSOCIATES, INC.
ARCHITECT: PARKER MYNCHENBERG & ASSOCIATES, INC.
DEVELOPMENT CONSULTANT: PARKER MYNCHENBERG & ASSOCIATES, INC.



INDEX TO DRAWINGS

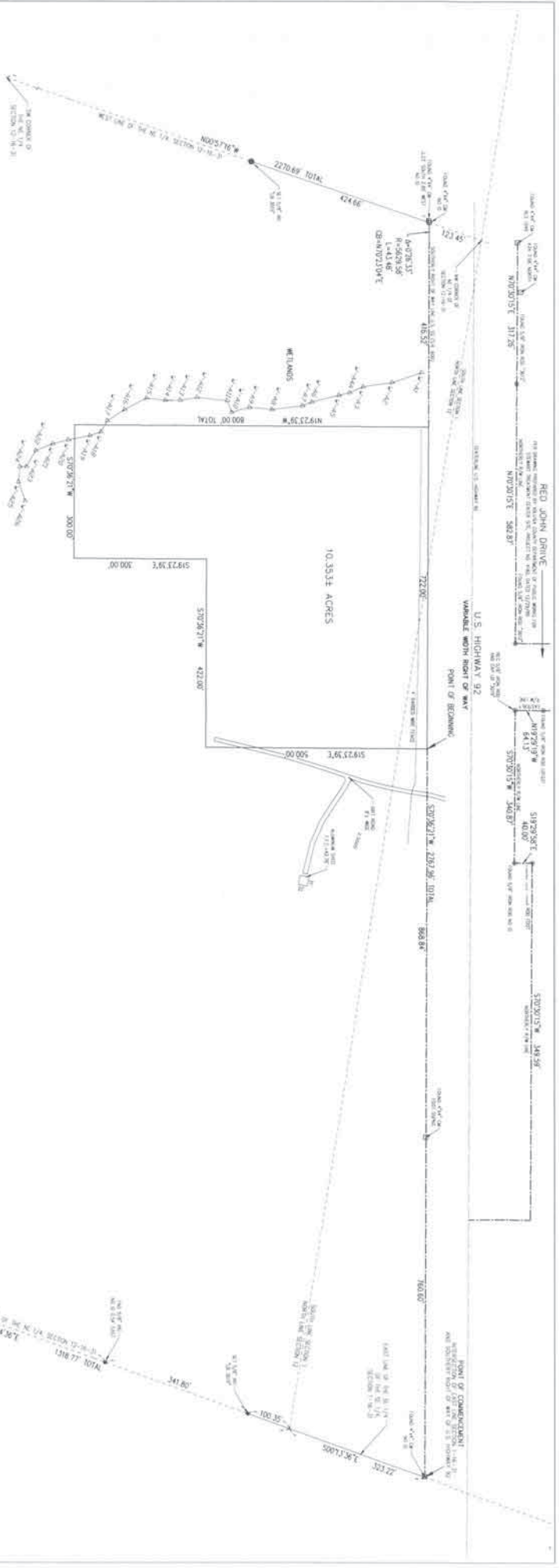
SHEET NO.	DESCRIPTION
1	COVER SHEET
2	BOUNDARY SURVEY
3	TOPOGRAPHIC SURVEY
4	DEMOLITION & EROSION CONTROL PLAN
5	SITE PLAN
6	CIVIL SITE PLAN
7	UTILITY SITE PLAN
8	LANDSCAPE PLAN
9	LANDSCAPE DETAILS
10-13	PAVING & DRAINAGE DETAILS
14-15	WATER STANDARD DETAILS
16-17	SEWER STANDARD DETAILS
18	SUMMARY OF PAY ITEMS PHASE 1



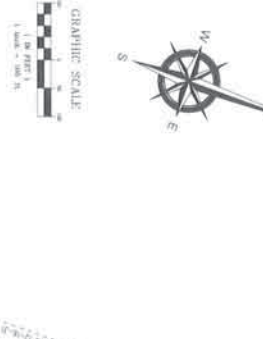
PARKING CALCULATION

REQUIRED: 15 SPACES
 PROVIDED: 15 SPACES
 TOTAL: 15 SPACES

NO.	REVISION	DATE
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
30		
31		
32		
33		
34		
35		
36		
37		
38		
39		
40		
41		
42		
43		
44		
45		
46		
47		
48		
49		
50		
51		
52		
53		
54		
55		
56		
57		
58		
59		
60		
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
71		
72		
73		
74		
75		
76		
77		
78		
79		
80		
81		
82		
83		
84		
85		
86		
87		
88		
89		
90		
91		
92		
93		
94		
95		
96		
97		
98		
99		
100		



- ADDITIONAL ASSURANCES - NONE LISTED
- 1. ADVERSE CLAIMS ARE NOT KNOWN TO EXIST WITHIN THE SURVEYED AREA.
 - 2. THE SURVEYOR HAS CONDUCTED A VISUAL INSPECTION OF THE PROPERTY AND HAS OBSERVED THE POSSESSION OF THE PROPERTY BY THE PERSONS WHOSE CLAIMS ARE SET FORTH IN THIS REPORT.
 - 3. THE SURVEYOR HAS CONDUCTED A VISUAL INSPECTION OF THE PROPERTY AND HAS OBSERVED THE POSSESSION OF THE PROPERTY BY THE PERSONS WHOSE CLAIMS ARE SET FORTH IN THIS REPORT.
 - 4. THE SURVEYOR HAS CONDUCTED A VISUAL INSPECTION OF THE PROPERTY AND HAS OBSERVED THE POSSESSION OF THE PROPERTY BY THE PERSONS WHOSE CLAIMS ARE SET FORTH IN THIS REPORT.
 - 5. THE SURVEYOR HAS CONDUCTED A VISUAL INSPECTION OF THE PROPERTY AND HAS OBSERVED THE POSSESSION OF THE PROPERTY BY THE PERSONS WHOSE CLAIMS ARE SET FORTH IN THIS REPORT.
 - 6. THE SURVEYOR HAS CONDUCTED A VISUAL INSPECTION OF THE PROPERTY AND HAS OBSERVED THE POSSESSION OF THE PROPERTY BY THE PERSONS WHOSE CLAIMS ARE SET FORTH IN THIS REPORT.
 - 7. THE SURVEYOR HAS CONDUCTED A VISUAL INSPECTION OF THE PROPERTY AND HAS OBSERVED THE POSSESSION OF THE PROPERTY BY THE PERSONS WHOSE CLAIMS ARE SET FORTH IN THIS REPORT.
 - 8. THE SURVEYOR HAS CONDUCTED A VISUAL INSPECTION OF THE PROPERTY AND HAS OBSERVED THE POSSESSION OF THE PROPERTY BY THE PERSONS WHOSE CLAIMS ARE SET FORTH IN THIS REPORT.
 - 9. THE SURVEYOR HAS CONDUCTED A VISUAL INSPECTION OF THE PROPERTY AND HAS OBSERVED THE POSSESSION OF THE PROPERTY BY THE PERSONS WHOSE CLAIMS ARE SET FORTH IN THIS REPORT.
 - 10. THE SURVEYOR HAS CONDUCTED A VISUAL INSPECTION OF THE PROPERTY AND HAS OBSERVED THE POSSESSION OF THE PROPERTY BY THE PERSONS WHOSE CLAIMS ARE SET FORTH IN THIS REPORT.



PROPERTY		ADDITIONALS	
1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24
25	26	27	28
29	30	31	32
33	34	35	36
37	38	39	40
41	42	43	44
45	46	47	48
49	50	51	52
53	54	55	56
57	58	59	60
61	62	63	64
65	66	67	68
69	70	71	72
73	74	75	76
77	78	79	80
81	82	83	84
85	86	87	88
89	90	91	92
93	94	95	96
97	98	99	100

ADDITIONAL ASSURANCES - NONE LISTED	
1	2
3	4
5	6
7	8
9	10
11	12
13	14
15	16
17	18
19	20
21	22
23	24
25	26
27	28
29	30
31	32
33	34
35	36
37	38
39	40
41	42
43	44
45	46
47	48
49	50
51	52
53	54
55	56
57	58
59	60
61	62
63	64
65	66
67	68
69	70
71	72
73	74
75	76
77	78
79	80
81	82
83	84
85	86
87	88
89	90
91	92
93	94
95	96
97	98
99	100

ADDITIONAL ASSURANCES - NONE LISTED	
1	2
3	4
5	6
7	8
9	10
11	12
13	14
15	16
17	18
19	20
21	22
23	24
25	26
27	28
29	30
31	32
33	34
35	36
37	38
39	40
41	42
43	44
45	46
47	48
49	50
51	52
53	54
55	56
57	58
59	60
61	62
63	64
65	66
67	68
69	70
71	72
73	74
75	76
77	78
79	80
81	82
83	84
85	86
87	88
89	90
91	92
93	94
95	96
97	98
99	100

ADDITIONAL ASSURANCES - NONE LISTED	
1	2
3	4
5	6
7	8
9	10
11	12
13	14
15	16
17	18
19	20
21	22
23	24
25	26
27	28
29	30
31	32
33	34
35	36
37	38
39	40
41	42
43	44
45	46
47	48
49	50
51	52
53	54
55	56
57	58
59	60
61	62
63	64
65	66
67	68
69	70
71	72
73	74
75	76
77	78
79	80
81	82
83	84
85	86
87	88
89	90
91	92
93	94
95	96
97	98
99	100

SLIGER & ASSOCIATES, INC.
 PROFESSIONAL LAND SURVEYORS
 LICENSED BUSINESS CERTIFICATION NUMBER 2019
 OFFICE: 1100 N. UNIVERSITY BLVD., SUITE 100, DAYTONA, FL 32119
 PHONE: (386) 255-7777

FOR: CITY OF DAYTONA BEACH, FLORIDA

YOLUSIA SAFE HARBOR INTERNATIONAL SPEEDWAY BLVD

BOUNDARY SURVEY

JOB NO. 17-0932



UNIT'S STATEMENT

THE ACCURACY AND RELIABILITY OF THIS SURVEY IS BASED ON THE ASSUMPTION THAT THE LOCATIONS OF ALL POINTS SHOWN ON THIS SURVEY WERE ACCURATELY LOCATED BY SURVEYING INSTRUMENTS. THE SURVEYOR HAS CONDUCTED A VISUAL INSPECTION OF THE SITE AND HAS FOUND NO EVIDENCE OF ANY OBSTRUCTIONS TO THE SURVEY. THE SURVEYOR HAS CONDUCTED A VISUAL INSPECTION OF THE SITE AND HAS FOUND NO EVIDENCE OF ANY OBSTRUCTIONS TO THE SURVEY. THE SURVEYOR HAS CONDUCTED A VISUAL INSPECTION OF THE SITE AND HAS FOUND NO EVIDENCE OF ANY OBSTRUCTIONS TO THE SURVEY.

ADDITIONAL ABBREVIATIONS - SEE LEGEND

CP	CANTONMENT	SE	SECTION	INT	INTERSECTION
LA	LOCALITY	ST	STATION	TR	TRAIL
DC	DEVELOPMENT	CR	CROSSING	BR	BRIDGE
DM	DRAINAGE	PA	PROPERTY	MA	MANHOLE
DR	DRAINAGE	PA	PROPERTY	MA	MANHOLE
DR	DRAINAGE	PA	PROPERTY	MA	MANHOLE

LEGEND

●	IRON NAIL	○	WOODEN NAIL
○	WOODEN NAIL	○	WOODEN NAIL
○	WOODEN NAIL	○	WOODEN NAIL
○	WOODEN NAIL	○	WOODEN NAIL
○	WOODEN NAIL	○	WOODEN NAIL

GRAPHIC SCALE

1" = 100'

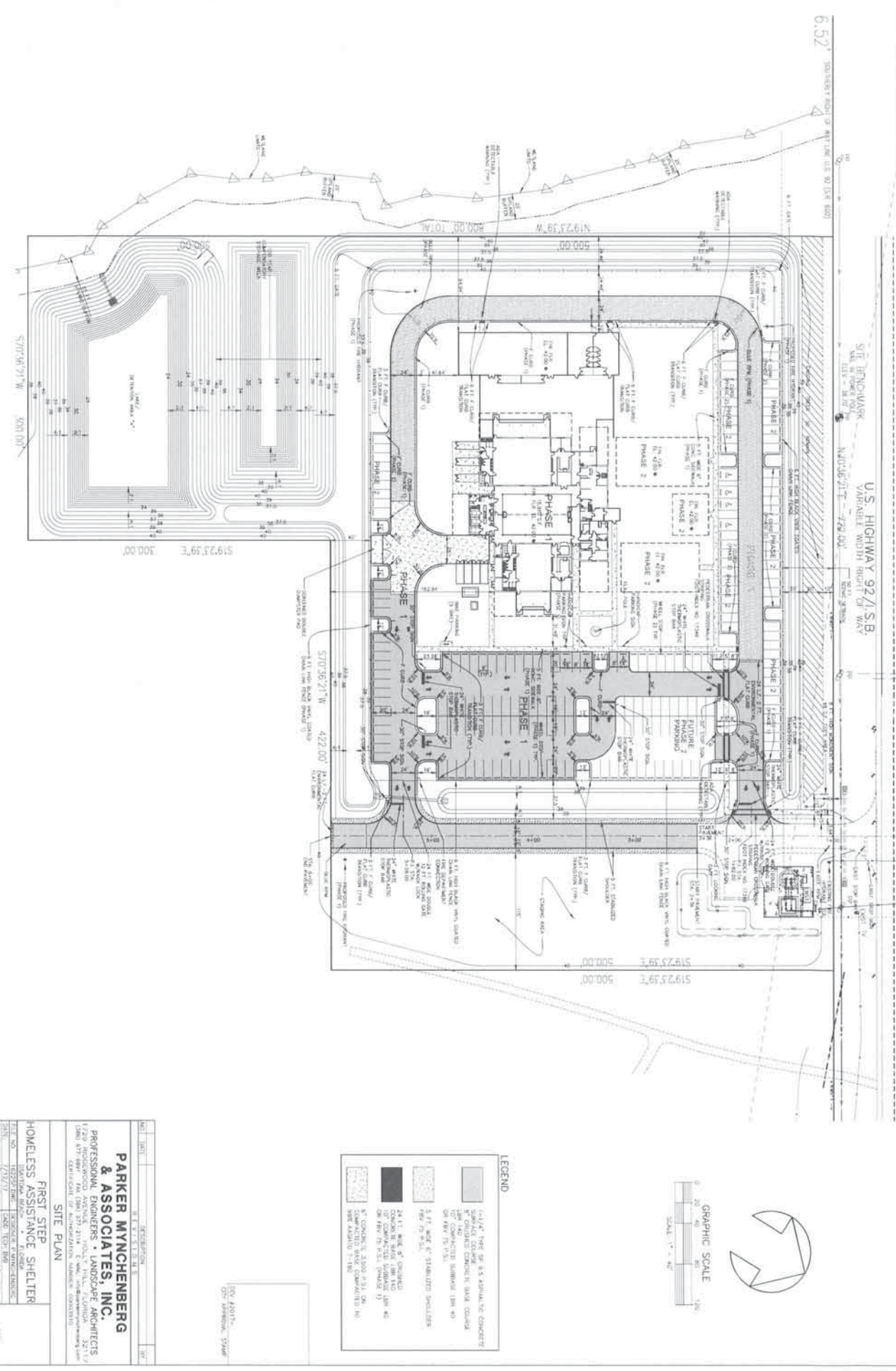
0 100 200 300 400 500

SLIGER & ASSOCIATES, INC.
 PROFESSIONAL LAND SURVEYORS
 LICENSED BUSINESS REGISTRATION NUMBER 2019

TOPOGRAPHIC SURVEY

RED JOHN DRIVE HARBOR INTERNATIONAL SPEEDWAY BLVD FOR: CITY OF DAYTONA BEACH, FLORIDA

JOB NO. 17-0932



U.S. HIGHWAY 92 / S.B.
 VARIABLE WIDTH RIGHT OF WAY
 SITE BENCHMARK
 NAD 83
 6.52' SOUTHERT POINT OF MEASUREMENT (SR 80) (SR 800)



LEGEND

- 1-1/2" TYPE GR 8.5 ASPHALTIC CONCRETE SURFACE COURSE
- 1-1/2" TYPE GR 8.5 ASPHALTIC CONCRETE SURFACE COURSE
- 3" TYPE GR 8.5 ASPHALTIC CONCRETE SURFACE COURSE
- 5.7" WIDE 6" STANDARD SHELTERS
- 24" L1. WIDE 6" STANDARD SHELTERS
- CONCRETE BASE 18" MIN. THICK
- CONCRETE 3,000 P.S.I. (31) OR 3,500 P.S.I. (35) (GRADE 1)
- CONCRETE 3,000 P.S.I. (31) OR 3,500 P.S.I. (35) (GRADE 1)
- BRICK KASHERY 3" - 4" (2)

REV	DATE	DESCRIPTION	BY

REV 1/10/17
 GPC JEROME STAMP

PARKER MYNCHENBERG & ASSOCIATES, INC.
 PROFESSIONAL ENGINEERS • LANDSCAPE ARCHITECTS
 1720 WINDWARD AVENUE, SUITE 200, HALLANDALE BEACH, FLORIDA 33011
 (954) 871-2200
 CERTIFICATE OF ADEQUACY NUMBER: 160000110

FIRST STEP HOMELESS ASSISTANCE SHELTER

SITE PLAN

TITLE NO.	162225100	ISSUE NO.	01
DATE	12/13/17	SCALE	AS SHOWN
SCALE	1" = 40'	DATE	12/13/17

6.52

SECTION NORTH OF MYRTLE U.S. 90 PER SOUTH

U.S. HIGHWAY 90 S.B.

PHASE 1

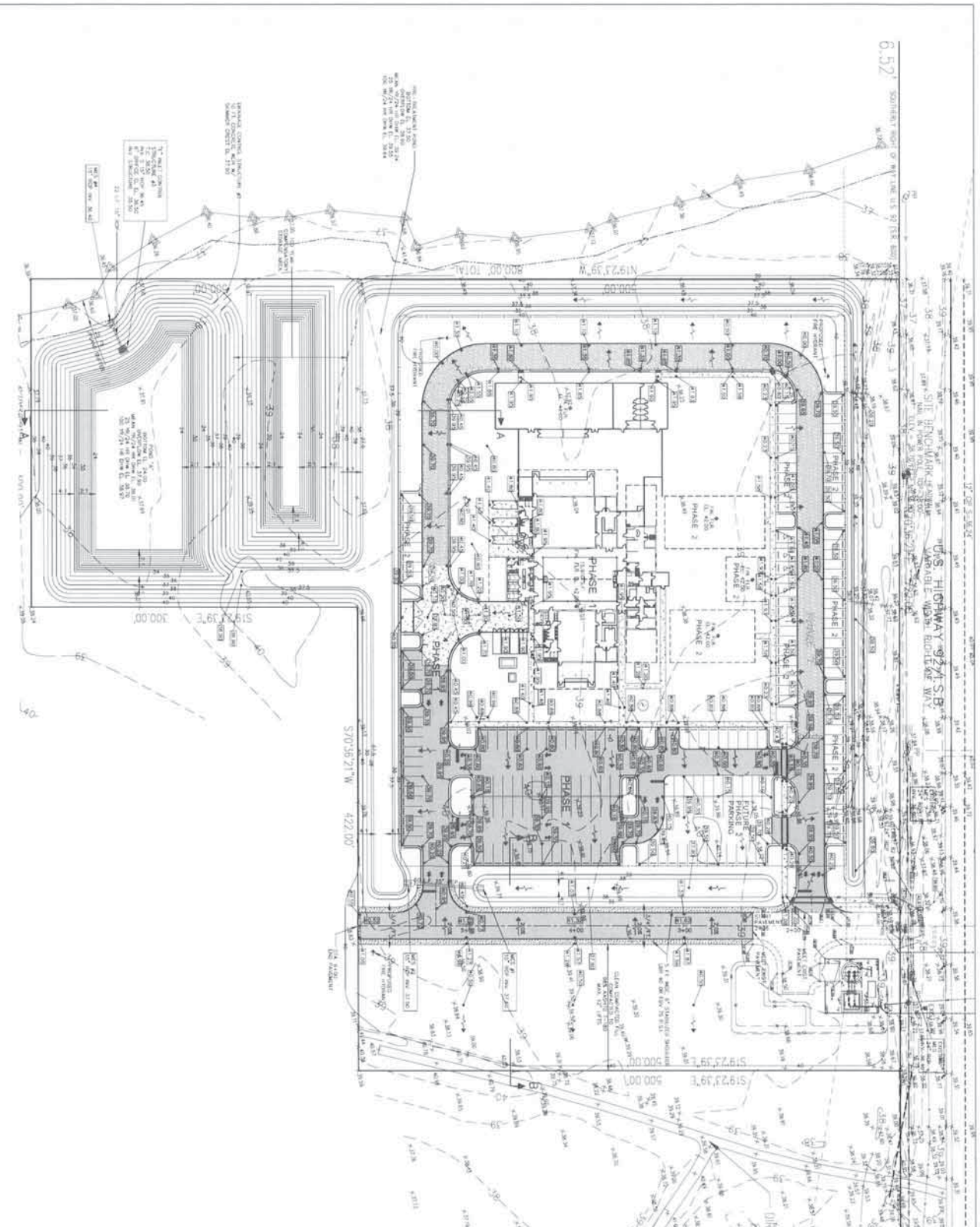
PHASE 2

PHASE 3

PHASE 4

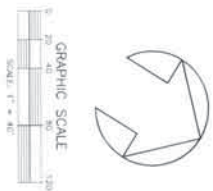
PHASE 5

PHASE 6



LEGEND

	EXISTING CURB WALL
	EXISTING DRAIN
	EXISTING CONCRETE
	PROPOSED CONCRETE
	PROPOSED DRAINAGE
	PROPOSED DRAINAGE FLOW DIRECTION



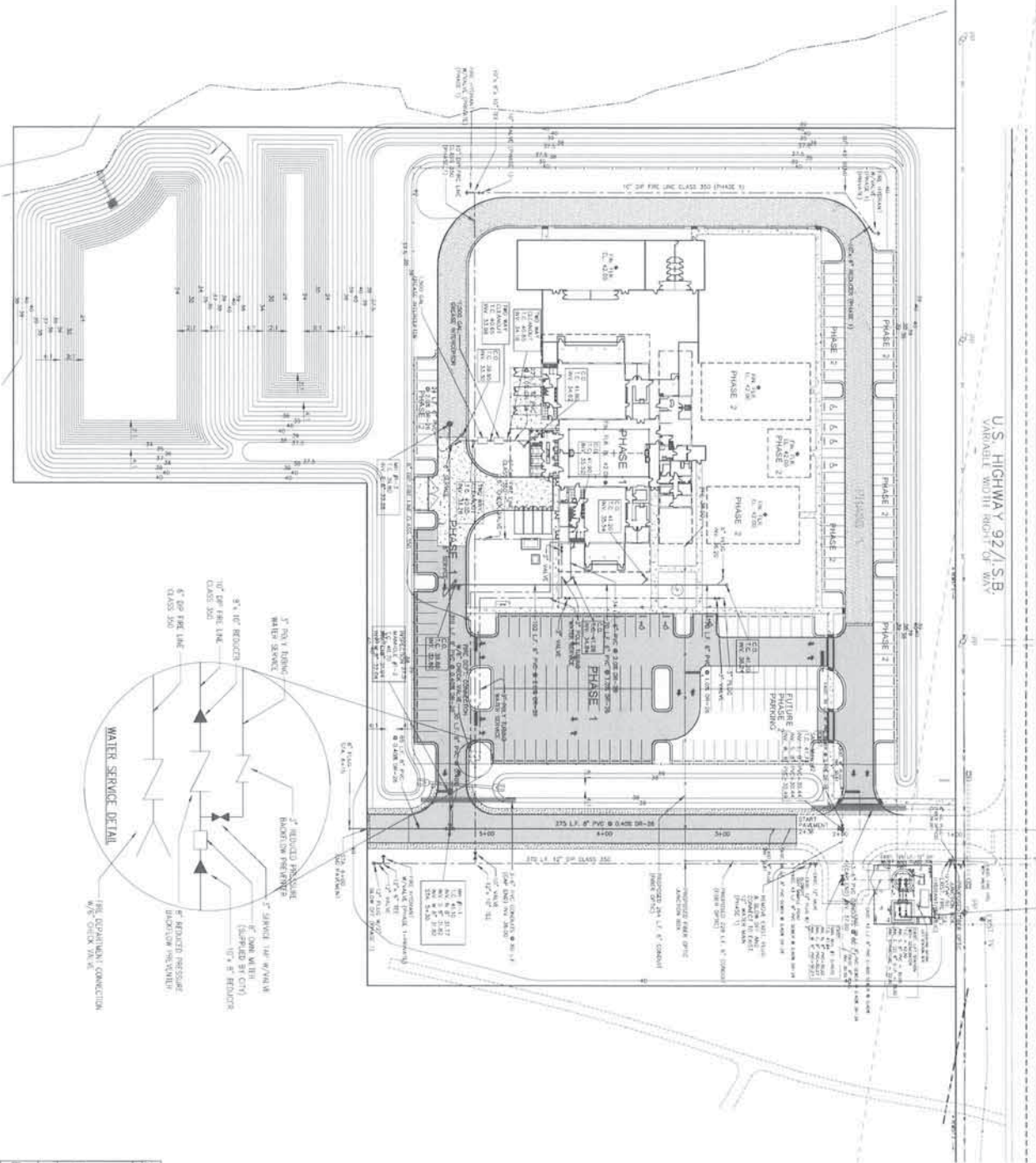
DATE	11/11/2011	DESCRIPTION	
DRAWN BY	J. J. JONES		
CHECKED BY	J. J. JONES		
SCALE	1" = 40'		

PARKER MYNCHENBERG & ASSOCIATES, INC.
 PROFESSIONAL ENGINEERS • LANDSCAPE ARCHITECTS
 1729 WINDWOOD AVENUE, SUITE 111, HOLLY HILL, FLORIDA 32117
 (407) 571-1111
 CENTRAL FLORIDA CHAPTER OF AMERICAN SOCIETY OF CIVIL ENGINEERS

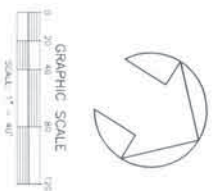
CIVIL SITE PLAN

FIRST STEP
HOMELESS ASSISTANCE SHELTER

DATE: 11/11/2011
 CITY: APOPKA, FLORIDA



U.S. HIGHWAY 92/1/S.B.
VARIABLE WIDTH RIGHT OF WAY



REV: 1/2017 -
ON APPROVAL - 5/24/18

NO.	DATE	DESCRIPTION	BY

PARKER MYNCHENBERG & ASSOCIATES, INC.
PROFESSIONAL ENGINEERS • LANDSCAPE ARCHITECTS
1729 HINDSWOOD AVENUE, SUITE 111, HELIX HILLS, FLORIDA 32717
(888) 877-4200
CERTIFICATE OF PROFESSIONAL ENGINEERING NUMBER: 000000101

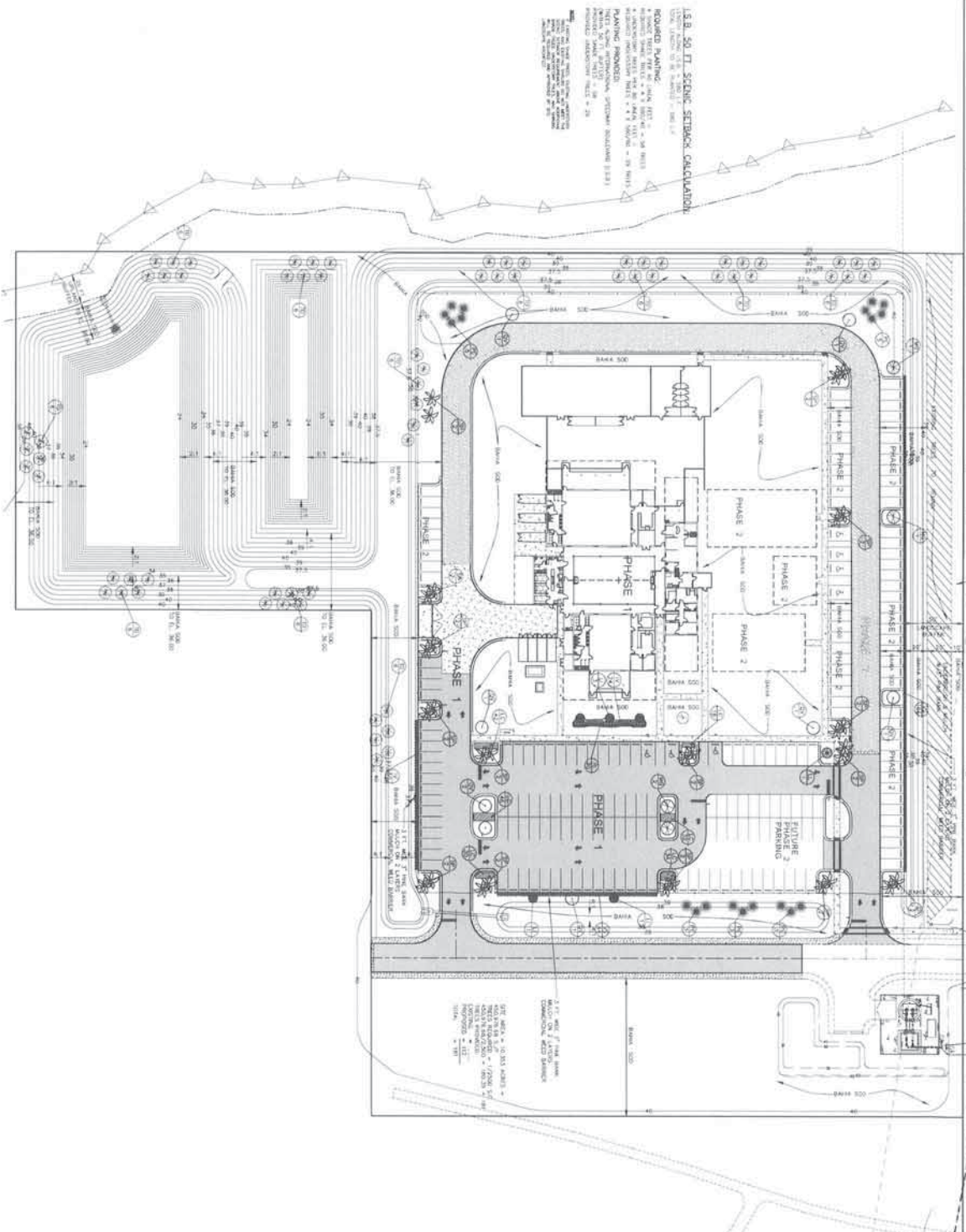
UTILITY SITE PLAN

FIRST STEP
HOMELESS ASSISTANCE SHELTER

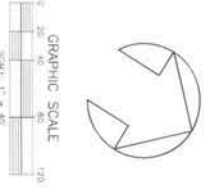
FILE NO.	16335558	ISSUANCE DATE	12/20/2017
DRAWN BY	JW/TL	CHECKED BY	TD/TL
DATE	1/2/18	SCALE	AS SHOWN

10/4

U.S. HIGHWAY 92/S.B.
VARIABLE WIDTH RIGHT OF WAY



1.5.9. 50 FT. SCOUR SETBACK CALCULATION
REQUIRED PLANTING:
 1.5.9.1. 50 FT. SCOUR SETBACK CALCULATION
 1.5.9.2. 50 FT. SCOUR SETBACK CALCULATION
 1.5.9.3. 50 FT. SCOUR SETBACK CALCULATION
PLANTING PROVIDED:
 1.5.9.4. 50 FT. SCOUR SETBACK CALCULATION
 1.5.9.5. 50 FT. SCOUR SETBACK CALCULATION
 1.5.9.6. 50 FT. SCOUR SETBACK CALCULATION
 1.5.9.7. 50 FT. SCOUR SETBACK CALCULATION
 1.5.9.8. 50 FT. SCOUR SETBACK CALCULATION
 1.5.9.9. 50 FT. SCOUR SETBACK CALCULATION
 1.5.9.10. 50 FT. SCOUR SETBACK CALCULATION



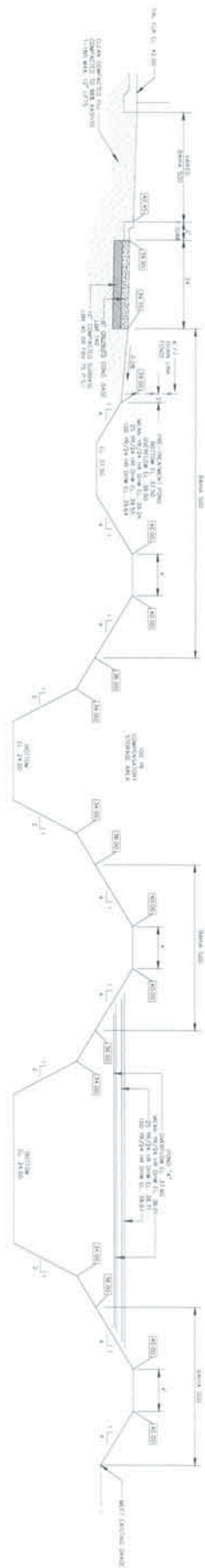
PLANT LIST

SYMBOL	NO.	QTY	BRAND/TYPE	COMMON NAME	SIZE
1	10	10	LANCASH CANYON	LANCASH	1 1/2" DIA. 24" H.
2	20	20	ORANGE BLOSSOM	ORANGE BLOSSOM	1 1/2" DIA. 24" H.
3	30	30	LEAFY BRANCH	LEAFY BRANCH	1 1/2" DIA. 24" H.
4	40	40	ORANGE BLOSSOM	ORANGE BLOSSOM	1 1/2" DIA. 24" H.
5	50	50	ORANGE BLOSSOM	ORANGE BLOSSOM	1 1/2" DIA. 24" H.
6	60	60	ORANGE BLOSSOM	ORANGE BLOSSOM	1 1/2" DIA. 24" H.
7	70	70	ORANGE BLOSSOM	ORANGE BLOSSOM	1 1/2" DIA. 24" H.
8	80	80	ORANGE BLOSSOM	ORANGE BLOSSOM	1 1/2" DIA. 24" H.
9	90	90	ORANGE BLOSSOM	ORANGE BLOSSOM	1 1/2" DIA. 24" H.
10	100	100	ORANGE BLOSSOM	ORANGE BLOSSOM	1 1/2" DIA. 24" H.
11	110	110	ORANGE BLOSSOM	ORANGE BLOSSOM	1 1/2" DIA. 24" H.
12	120	120	ORANGE BLOSSOM	ORANGE BLOSSOM	1 1/2" DIA. 24" H.
13	130	130	ORANGE BLOSSOM	ORANGE BLOSSOM	1 1/2" DIA. 24" H.
14	140	140	ORANGE BLOSSOM	ORANGE BLOSSOM	1 1/2" DIA. 24" H.
15	150	150	ORANGE BLOSSOM	ORANGE BLOSSOM	1 1/2" DIA. 24" H.
16	160	160	ORANGE BLOSSOM	ORANGE BLOSSOM	1 1/2" DIA. 24" H.
17	170	170	ORANGE BLOSSOM	ORANGE BLOSSOM	1 1/2" DIA. 24" H.
18	180	180	ORANGE BLOSSOM	ORANGE BLOSSOM	1 1/2" DIA. 24" H.
19	190	190	ORANGE BLOSSOM	ORANGE BLOSSOM	1 1/2" DIA. 24" H.
20	200	200	ORANGE BLOSSOM	ORANGE BLOSSOM	1 1/2" DIA. 24" H.
21	210	210	ORANGE BLOSSOM	ORANGE BLOSSOM	1 1/2" DIA. 24" H.
22	220	220	ORANGE BLOSSOM	ORANGE BLOSSOM	1 1/2" DIA. 24" H.
23	230	230	ORANGE BLOSSOM	ORANGE BLOSSOM	1 1/2" DIA. 24" H.
24	240	240	ORANGE BLOSSOM	ORANGE BLOSSOM	1 1/2" DIA. 24" H.
25	250	250	ORANGE BLOSSOM	ORANGE BLOSSOM	1 1/2" DIA. 24" H.
26	260	260	ORANGE BLOSSOM	ORANGE BLOSSOM	1 1/2" DIA. 24" H.
27	270	270	ORANGE BLOSSOM	ORANGE BLOSSOM	1 1/2" DIA. 24" H.
28	280	280	ORANGE BLOSSOM	ORANGE BLOSSOM	1 1/2" DIA. 24" H.
29	290	290	ORANGE BLOSSOM	ORANGE BLOSSOM	1 1/2" DIA. 24" H.
30	300	300	ORANGE BLOSSOM	ORANGE BLOSSOM	1 1/2" DIA. 24" H.
31	310	310	ORANGE BLOSSOM	ORANGE BLOSSOM	1 1/2" DIA. 24" H.
32	320	320	ORANGE BLOSSOM	ORANGE BLOSSOM	1 1/2" DIA. 24" H.
33	330	330	ORANGE BLOSSOM	ORANGE BLOSSOM	1 1/2" DIA. 24" H.
34	340	340	ORANGE BLOSSOM	ORANGE BLOSSOM	1 1/2" DIA. 24" H.
35	350	350	ORANGE BLOSSOM	ORANGE BLOSSOM	1 1/2" DIA. 24" H.
36	360	360	ORANGE BLOSSOM	ORANGE BLOSSOM	1 1/2" DIA. 24" H.
37	370	370	ORANGE BLOSSOM	ORANGE BLOSSOM	1 1/2" DIA. 24" H.
38	380	380	ORANGE BLOSSOM	ORANGE BLOSSOM	1 1/2" DIA. 24" H.
39	390	390	ORANGE BLOSSOM	ORANGE BLOSSOM	1 1/2" DIA. 24" H.
40	400	400	ORANGE BLOSSOM	ORANGE BLOSSOM	1 1/2" DIA. 24" H.
41	410	410	ORANGE BLOSSOM	ORANGE BLOSSOM	1 1/2" DIA. 24" H.
42	420	420	ORANGE BLOSSOM	ORANGE BLOSSOM	1 1/2" DIA. 24" H.
43	430	430	ORANGE BLOSSOM	ORANGE BLOSSOM	1 1/2" DIA. 24" H.
44	440	440	ORANGE BLOSSOM	ORANGE BLOSSOM	1 1/2" DIA. 24" H.
45	450	450	ORANGE BLOSSOM	ORANGE BLOSSOM	1 1/2" DIA. 24" H.
46	460	460	ORANGE BLOSSOM	ORANGE BLOSSOM	1 1/2" DIA. 24" H.
47	470	470	ORANGE BLOSSOM	ORANGE BLOSSOM	1 1/2" DIA. 24" H.
48	480	480	ORANGE BLOSSOM	ORANGE BLOSSOM	1 1/2" DIA. 24" H.
49	490	490	ORANGE BLOSSOM	ORANGE BLOSSOM	1 1/2" DIA. 24" H.
50	500	500	ORANGE BLOSSOM	ORANGE BLOSSOM	1 1/2" DIA. 24" H.

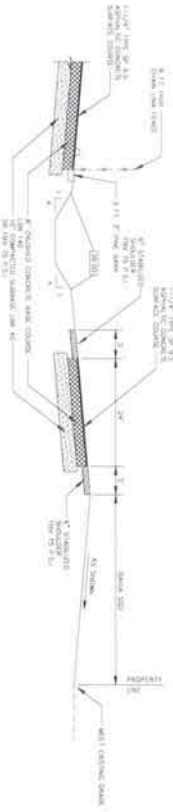
PARKER MYNCHENBERG & ASSOCIATES, INC.
 PROFESSIONAL ENGINEERS • LANDSCAPE ARCHITECTS
 1729 BUDWICK AVENUE, SUITE 111, FORT WORTH, TEXAS 76104
 (817) 332-1111
 CENTRAL TEXAS ARCHITECTURAL NUMBER 000021416

LANDSCAPE PLAN
FIRST STEP
HOMELESS ASSISTANCE SHELTER

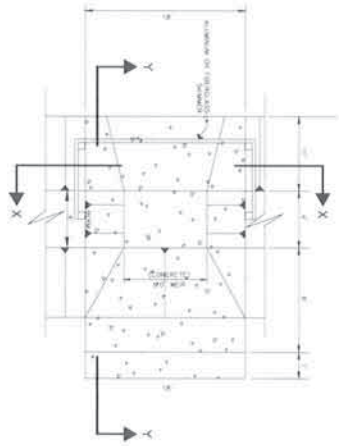
DATE: 11/17/11
 DRAWN BY: J. MYNCHENBERG
 CHECKED BY: J. MYNCHENBERG
 SCALE: 1" = 40'



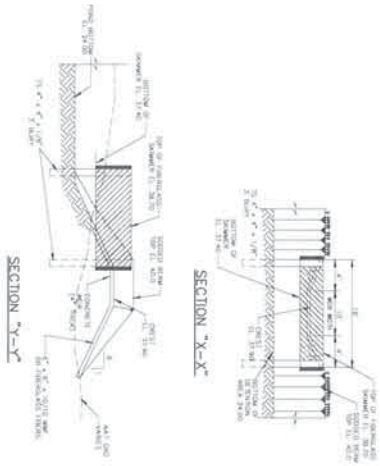
SECTION "A-A"



SECTION "B-B"



PLAN VIEW OF WEIR/SKIMMER



POND "A"
CONCRETE WEIR DETAILS

KEY FOOTING
CITY APPROVAL STAMP

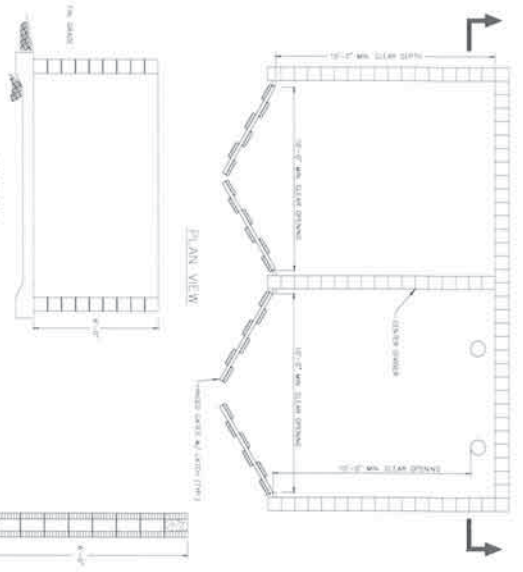
NO.	DATE	DESCRIPTION	BY

PARKER MYNCHENBERG & ASSOCIATES, INC.
 PROFESSIONAL ENGINEERS • LANDSCAPE ARCHITECTS
 1728 HUNTERWOOD AVENUE, HOLLY HILLS, FLORIDA 32117
 (407) 439-1100 FAX (407) 439-1101
 CENTRAL OFFICE OF AUTHORIZATION NUMBER: 00005310

PAVING & DRAINAGE DETAILS
FIRST STEP
HOMELESS ASSISTANCE SHELTER
 DRAWN BY: J. M. MCGEE
 CHECKED BY: J. M. MCGEE
 DATE: 7/17/17
 SCALE: NONE
 SHEET: 11 OF 18
 YEAR:

DIMENSIONS & QUANTITIES

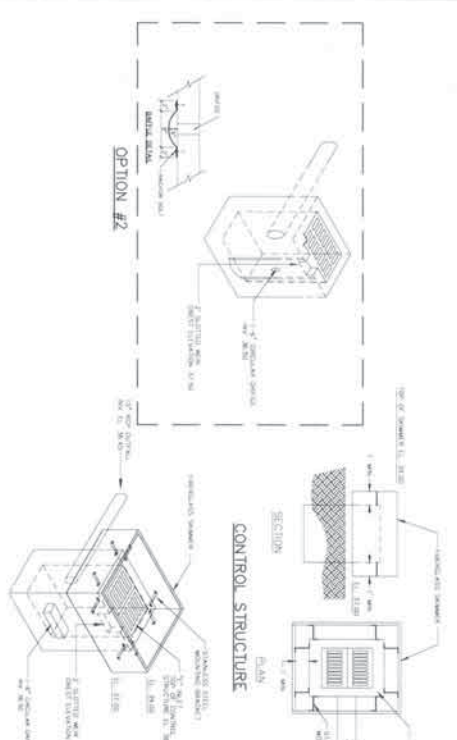
NO.	DESCRIPTION	UNIT	QTY	PRICE	TOTAL
1	CONCRETE	CU YD	10.00	10.00	10.00
2	STEEL	TON	1.00	1.00	1.00
3	WOOD	CU YD	5.00	5.00	5.00
4	PAVING	SQ YD	20.00	20.00	20.00
5	DRAINAGE	LF	100.00	100.00	100.00
6	ENCLOSURE	SQ FT	100.00	100.00	100.00
7	ROLLING GATE	LF	10.00	10.00	10.00
8	FENCE	LF	100.00	100.00	100.00
9	CONTROL STRUCTURE	NO.	1.00	1.00	1.00
10	INLET CONTROL STRUCTURE	NO.	1.00	1.00	1.00
11	FOOT MITERED END SECTION	NO.	1.00	1.00	1.00
12	SECTION	NO.	1.00	1.00	1.00
13	SECTION	NO.	1.00	1.00	1.00
14	SECTION	NO.	1.00	1.00	1.00
15	SECTION	NO.	1.00	1.00	1.00
16	SECTION	NO.	1.00	1.00	1.00
17	SECTION	NO.	1.00	1.00	1.00
18	SECTION	NO.	1.00	1.00	1.00
19	SECTION	NO.	1.00	1.00	1.00
20	SECTION	NO.	1.00	1.00	1.00
21	SECTION	NO.	1.00	1.00	1.00
22	SECTION	NO.	1.00	1.00	1.00
23	SECTION	NO.	1.00	1.00	1.00
24	SECTION	NO.	1.00	1.00	1.00
25	SECTION	NO.	1.00	1.00	1.00
26	SECTION	NO.	1.00	1.00	1.00
27	SECTION	NO.	1.00	1.00	1.00
28	SECTION	NO.	1.00	1.00	1.00
29	SECTION	NO.	1.00	1.00	1.00
30	SECTION	NO.	1.00	1.00	1.00
31	SECTION	NO.	1.00	1.00	1.00
32	SECTION	NO.	1.00	1.00	1.00
33	SECTION	NO.	1.00	1.00	1.00
34	SECTION	NO.	1.00	1.00	1.00
35	SECTION	NO.	1.00	1.00	1.00
36	SECTION	NO.	1.00	1.00	1.00
37	SECTION	NO.	1.00	1.00	1.00
38	SECTION	NO.	1.00	1.00	1.00
39	SECTION	NO.	1.00	1.00	1.00
40	SECTION	NO.	1.00	1.00	1.00
41	SECTION	NO.	1.00	1.00	1.00
42	SECTION	NO.	1.00	1.00	1.00
43	SECTION	NO.	1.00	1.00	1.00
44	SECTION	NO.	1.00	1.00	1.00
45	SECTION	NO.	1.00	1.00	1.00
46	SECTION	NO.	1.00	1.00	1.00
47	SECTION	NO.	1.00	1.00	1.00
48	SECTION	NO.	1.00	1.00	1.00
49	SECTION	NO.	1.00	1.00	1.00
50	SECTION	NO.	1.00	1.00	1.00



DUAL-USE DUMPSTER ENCLOSURE

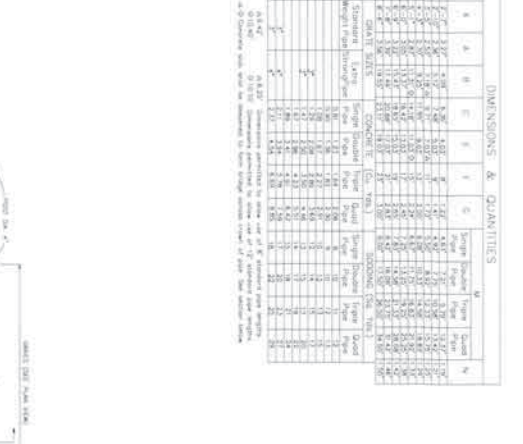
SECTION

PLAN VIEW



OPTION #2

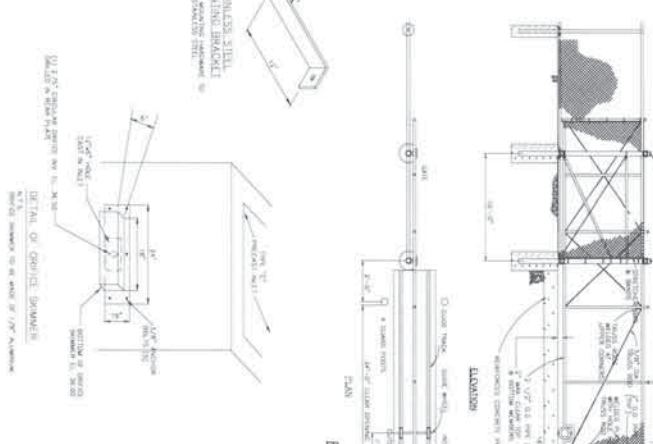
CONTROL STRUCTURE



FOOT MITERED END SECTION-WITHOUT GRATE

SECTION

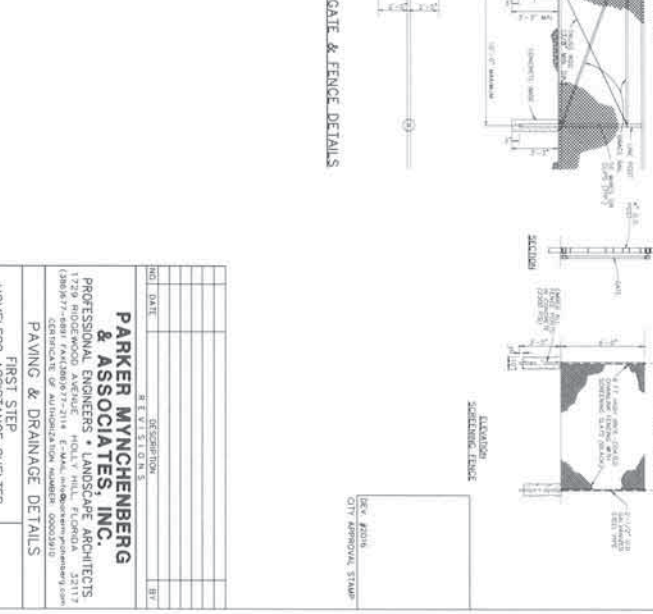
ELEVATION



ROLLING GATE & FENCE DETAILS

SECTION

ELEVATION



DETAIL OF GRATE SHOWER

NO.	DATE	DESCRIPTION	BY
1	7/17/17	PRELIMINARY	MM
2	7/17/17	REVISED	MM
3	7/17/17	REVISED	MM
4	7/17/17	REVISED	MM
5	7/17/17	REVISED	MM
6	7/17/17	REVISED	MM
7	7/17/17	REVISED	MM
8	7/17/17	REVISED	MM
9	7/17/17	REVISED	MM
10	7/17/17	REVISED	MM
11	7/17/17	REVISED	MM
12	7/17/17	REVISED	MM
13	7/17/17	REVISED	MM
14	7/17/17	REVISED	MM
15	7/17/17	REVISED	MM
16	7/17/17	REVISED	MM
17	7/17/17	REVISED	MM
18	7/17/17	REVISED	MM
19	7/17/17	REVISED	MM
20	7/17/17	REVISED	MM
21	7/17/17	REVISED	MM
22	7/17/17	REVISED	MM
23	7/17/17	REVISED	MM
24	7/17/17	REVISED	MM
25	7/17/17	REVISED	MM
26	7/17/17	REVISED	MM
27	7/17/17	REVISED	MM
28	7/17/17	REVISED	MM
29	7/17/17	REVISED	MM
30	7/17/17	REVISED	MM
31	7/17/17	REVISED	MM
32	7/17/17	REVISED	MM
33	7/17/17	REVISED	MM
34	7/17/17	REVISED	MM
35	7/17/17	REVISED	MM
36	7/17/17	REVISED	MM
37	7/17/17	REVISED	MM
38	7/17/17	REVISED	MM
39	7/17/17	REVISED	MM
40	7/17/17	REVISED	MM
41	7/17/17	REVISED	MM
42	7/17/17	REVISED	MM
43	7/17/17	REVISED	MM
44	7/17/17	REVISED	MM
45	7/17/17	REVISED	MM
46	7/17/17	REVISED	MM
47	7/17/17	REVISED	MM
48	7/17/17	REVISED	MM
49	7/17/17	REVISED	MM
50	7/17/17	REVISED	MM

PARKER MYNCHENBERG & ASSOCIATES, INC.

PROFESSIONAL ENGINEERS • LANDSCAPE ARCHITECTS

1500 W. PULASKI AVENUE, SUITE 1111, CHICAGO, ILLINOIS 60607

REGISTERED PROFESSIONAL ENGINEER NO. 000003916

REGISTERED LANDSCAPE ARCHITECT NO. 000003916

PAVING & DRAINAGE DETAILS

FIRST STEP

HOMELESS ASSISTANCE SHELTER

DARTMOUTH BRANCH

CHANGING ROOM

SCALE: 1/4" = 1'-0"

DATE: 7/17/17

PROJECT: HOMELESS ASSISTANCE SHELTER

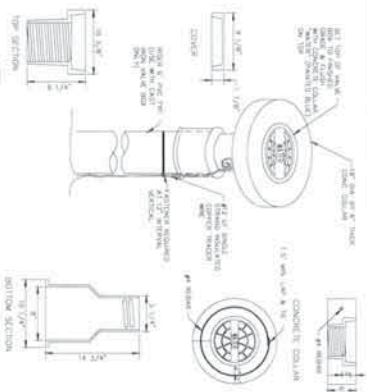
SCALE: 1/4" = 1'-0"

LOCATION OF PUBLIC WATER SYSTEM MAINS IN ACCORDANCE WITH F.A.C. RULE 62-555.314

Water Type	Horizontal Separation	Clearance (I)	Joint Spacing & Crossings (Full Joint Covered)
Surface Water Sanitary Sewer Reclaimed Water (2)	Vertical Clearance 3'-0" minimum	Vertical Clearance 12" minimum for water, 18" minimum for sanitary sewer, 18" minimum for reclaimed water	Vertical Clearance 12" minimum
Surface Sanitary Sewer	Vertical Clearance 18" minimum	Vertical Clearance 12" minimum for water, 18" minimum for sanitary sewer, 18" minimum for reclaimed water	Vertical Clearance 12" minimum
Ground or Pressure Sanitary Sewer Reclaimed Water (3)	Vertical Clearance 18" minimum	Vertical Clearance 12" minimum for water, 18" minimum for sanitary sewer, 18" minimum for reclaimed water	Vertical Clearance 12" minimum
Ground or Pressure Sanitary Sewer Reclaimed Water (4)	Vertical Clearance 18" minimum	Vertical Clearance 12" minimum for water, 18" minimum for sanitary sewer, 18" minimum for reclaimed water	Vertical Clearance 12" minimum

(1) Vertical clearance shall be maintained between all water mains, sanitary sewers, and storm sewers. (2) Vertical clearance shall be maintained between all water mains, sanitary sewers, and storm sewers. (3) Vertical clearance shall be maintained between all water mains, sanitary sewers, and storm sewers. (4) Vertical clearance shall be maintained between all water mains, sanitary sewers, and storm sewers.

WATER MAIN
SEPARATION CLAMP
N=9



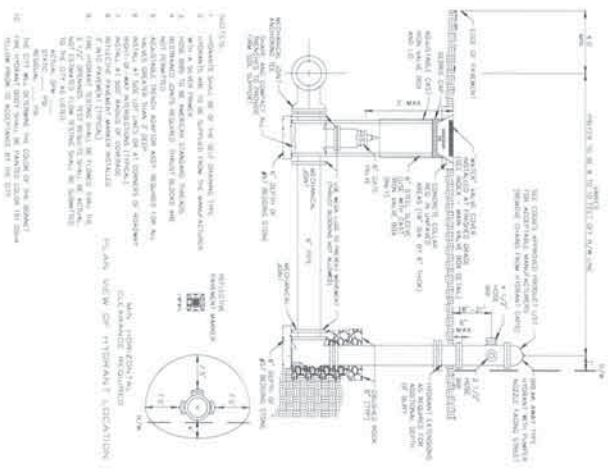
WATER MAIN
VALVE BOX
N=5
MAIN VALVE BOX
N=17



TABLE 1: RESTRAINED JOINT TABLE

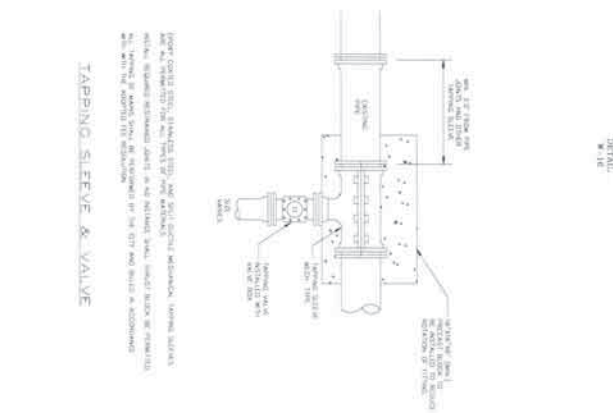
RESTRAINED JOINT TABLE

RESTRAINED JOINT TABLE



FIRE HYDRANT ASSEMBLY
N=15

FIRE HYDRANT
ASSEMBLY
DETAIL
N=15



WATER VALVE AND
VALVE BOX DETAILS
N=15

TAPPING SLEEVE & VALVE
N=15



TAPPING SLEEVE & VALVE
N=15

NOTES:
1. ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED.
2. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.
3. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE NOTED.
4. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE NOTED.
5. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE NOTED.
6. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE NOTED.
7. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE NOTED.
8. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE NOTED.
9. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE NOTED.
10. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE NOTED.

DATE: 7/17/17
DRAWN BY: JWB
CHECKED BY: JWB

PARKER MYNCHENBERG & ASSOCIATES, INC.
PROFESSIONAL ENGINEERS • LANDSCAPE ARCHITECTS
1729 WOODWOOD AVENUE • HOLLY HILL, FLORIDA 32119
(407) 889-0000
WWW.PMENG.COM

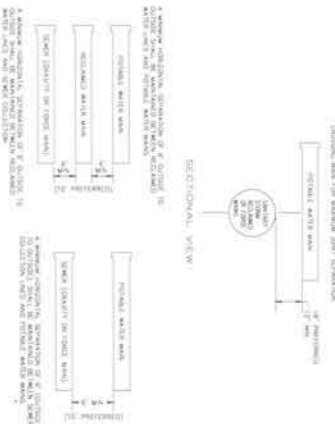
FIRST STEP HOMELESS ASSISTANCE SHELTER
WATER STANDARD DETAILS

SHEET 15 OF 18

**SANITARY SEWER
CONSTRUCTION & DESIGN STANDARDS**

1. THE SANITARY SEWER SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF LOS ANGELES SANITARY SEWER CONSTRUCTION & DESIGN STANDARDS.
2. THE SANITARY SEWER SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF LOS ANGELES SANITARY SEWER CONSTRUCTION & DESIGN STANDARDS.
3. THE SANITARY SEWER SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF LOS ANGELES SANITARY SEWER CONSTRUCTION & DESIGN STANDARDS.
4. THE SANITARY SEWER SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF LOS ANGELES SANITARY SEWER CONSTRUCTION & DESIGN STANDARDS.
5. THE SANITARY SEWER SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF LOS ANGELES SANITARY SEWER CONSTRUCTION & DESIGN STANDARDS.
6. THE SANITARY SEWER SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF LOS ANGELES SANITARY SEWER CONSTRUCTION & DESIGN STANDARDS.
7. THE SANITARY SEWER SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF LOS ANGELES SANITARY SEWER CONSTRUCTION & DESIGN STANDARDS.
8. THE SANITARY SEWER SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF LOS ANGELES SANITARY SEWER CONSTRUCTION & DESIGN STANDARDS.
9. THE SANITARY SEWER SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF LOS ANGELES SANITARY SEWER CONSTRUCTION & DESIGN STANDARDS.
10. THE SANITARY SEWER SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF LOS ANGELES SANITARY SEWER CONSTRUCTION & DESIGN STANDARDS.

**SANITARY SEWER
CONSTRUCTION & DESIGN
(PAGE 1 OF 3)**



PIPE SEPARATION DETAIL

**FIRE SEPARATION
DETAIL**

**SANITARY SEWER
CONSTRUCTION & DESIGN STANDARDS**

14. THE SANITARY SEWER SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF LOS ANGELES SANITARY SEWER CONSTRUCTION & DESIGN STANDARDS.
15. THE SANITARY SEWER SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF LOS ANGELES SANITARY SEWER CONSTRUCTION & DESIGN STANDARDS.
16. THE SANITARY SEWER SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF LOS ANGELES SANITARY SEWER CONSTRUCTION & DESIGN STANDARDS.
17. THE SANITARY SEWER SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF LOS ANGELES SANITARY SEWER CONSTRUCTION & DESIGN STANDARDS.
18. THE SANITARY SEWER SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF LOS ANGELES SANITARY SEWER CONSTRUCTION & DESIGN STANDARDS.
19. THE SANITARY SEWER SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF LOS ANGELES SANITARY SEWER CONSTRUCTION & DESIGN STANDARDS.
20. THE SANITARY SEWER SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF LOS ANGELES SANITARY SEWER CONSTRUCTION & DESIGN STANDARDS.
21. THE SANITARY SEWER SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF LOS ANGELES SANITARY SEWER CONSTRUCTION & DESIGN STANDARDS.
22. THE SANITARY SEWER SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF LOS ANGELES SANITARY SEWER CONSTRUCTION & DESIGN STANDARDS.
23. THE SANITARY SEWER SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF LOS ANGELES SANITARY SEWER CONSTRUCTION & DESIGN STANDARDS.
24. THE SANITARY SEWER SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF LOS ANGELES SANITARY SEWER CONSTRUCTION & DESIGN STANDARDS.

**SANITARY SEWER
CONSTRUCTION & DESIGN
(PAGE 2 OF 3)**

25. THE SANITARY SEWER SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF LOS ANGELES SANITARY SEWER CONSTRUCTION & DESIGN STANDARDS.
26. THE SANITARY SEWER SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF LOS ANGELES SANITARY SEWER CONSTRUCTION & DESIGN STANDARDS.
27. THE SANITARY SEWER SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF LOS ANGELES SANITARY SEWER CONSTRUCTION & DESIGN STANDARDS.
28. THE SANITARY SEWER SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF LOS ANGELES SANITARY SEWER CONSTRUCTION & DESIGN STANDARDS.
29. THE SANITARY SEWER SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF LOS ANGELES SANITARY SEWER CONSTRUCTION & DESIGN STANDARDS.
30. THE SANITARY SEWER SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF LOS ANGELES SANITARY SEWER CONSTRUCTION & DESIGN STANDARDS.
31. THE SANITARY SEWER SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF LOS ANGELES SANITARY SEWER CONSTRUCTION & DESIGN STANDARDS.
32. THE SANITARY SEWER SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF LOS ANGELES SANITARY SEWER CONSTRUCTION & DESIGN STANDARDS.
33. THE SANITARY SEWER SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF LOS ANGELES SANITARY SEWER CONSTRUCTION & DESIGN STANDARDS.
34. THE SANITARY SEWER SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF LOS ANGELES SANITARY SEWER CONSTRUCTION & DESIGN STANDARDS.

**SANITARY SEWER
CONSTRUCTION & DESIGN
(PAGE 3 OF 3)**

**SANITARY SEWER
CONSTRUCTION & DESIGN STANDARDS**

NO.	DESCRIPTION	DATE	BY
1	PREPARED FOR THE CITY OF LOS ANGELES	11/15/11	...
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
100

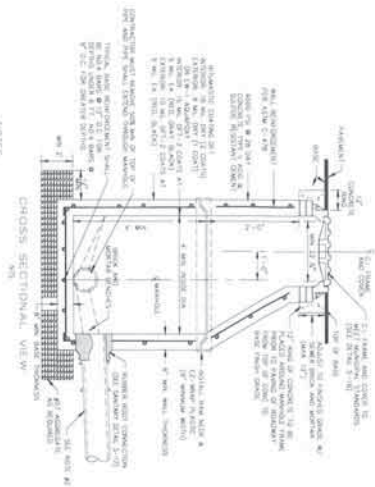
**SANITARY SEWER
CONSTRUCTION & DESIGN
(PAGE 4 OF 4)**

PARKER MYNCHENBERG & ASSOCIATES, INC.
PROFESSIONAL ENGINEERS • LANDSCAPE ARCHITECTS
15000 VAN DYKE AVENUE, SUITE 100, VAN DYKE, CALIFORNIA 91771
(909) 441-1111 FAX (909) 441-1112
WWW.PMAYNCHENBERG.COM

SEWER STANDARD DETAILS

FIRST STEP
HOMELESS ASSISTANCE SHELTER
DARTMOUTH BRANCH • LOS ANGELES
15000 VAN DYKE AVENUE, SUITE 100, VAN DYKE, CALIFORNIA 91771
(909) 441-1111 FAX (909) 441-1112
WWW.PMAYNCHENBERG.COM

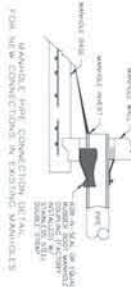
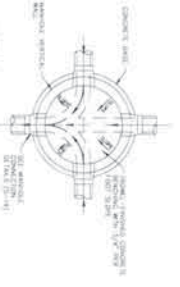
DATE: 07/27/11
SCALE: AS SHOWN
DRAWN BY: JAM
CHECKED BY: JAM
DATE: 08/18/11



- NOTES:**
1. SEE GENERAL NOTES TO SHEET FOR MATERIALS AND FINISHES.
 2. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, EDITION 2003, SECTION 210.
 3. ALL DIMENSIONS SHALL BE IN FEET AND INCHES, UNLESS OTHERWISE SPECIFIED.
 4. THE MANHOLE SHALL BE CONSTRUCTED TO A FINISH ELEVATION OF 3.0 FEET ABOVE FINISHED GRADE.
 5. THE MANHOLE SHALL BE PROTECTED BY A CONCRETE RAMP WITH A 1:2 SLOPE FROM THE STREET TO THE MANHOLE COVER.
 6. THE MANHOLE SHALL BE SURROUNDED BY A 24-INCH THICK CONCRETE CURB WITH A 2:1 SLOPE.
 7. THE MANHOLE SHALL BE PROVIDED WITH A 24-INCH DIAMETER MANHOLE COVER AND FRAME.
 8. THE MANHOLE SHALL BE PROVIDED WITH A 24-INCH DIAMETER MANHOLE COVER AND FRAME WITH A 2:1 SLOPE.
 9. THE MANHOLE SHALL BE PROVIDED WITH A 24-INCH DIAMETER MANHOLE COVER AND FRAME WITH A 2:1 SLOPE.
 10. THE MANHOLE SHALL BE PROVIDED WITH A 24-INCH DIAMETER MANHOLE COVER AND FRAME WITH A 2:1 SLOPE.
 11. THE MANHOLE SHALL BE PROVIDED WITH A 24-INCH DIAMETER MANHOLE COVER AND FRAME WITH A 2:1 SLOPE.
 12. THE MANHOLE SHALL BE PROVIDED WITH A 24-INCH DIAMETER MANHOLE COVER AND FRAME WITH A 2:1 SLOPE.
 13. THE MANHOLE SHALL BE PROVIDED WITH A 24-INCH DIAMETER MANHOLE COVER AND FRAME WITH A 2:1 SLOPE.
 14. THE MANHOLE SHALL BE PROVIDED WITH A 24-INCH DIAMETER MANHOLE COVER AND FRAME WITH A 2:1 SLOPE.

**STANDARD SANITARY
SEWER MANHOLE**

SANITARY SEWER
MANHOLE AND
COVER NOTES



**SANITARY MANHOLE
INVERT DETAIL**

RUBBER BOOT
AND
CONNECTION DETAIL

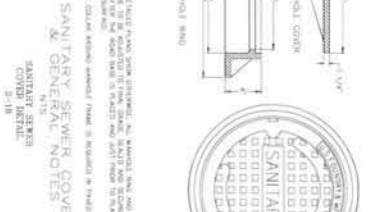
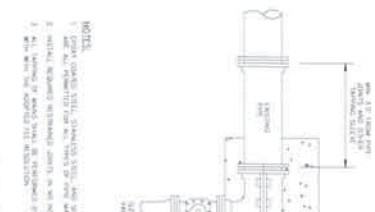


TABLE 1 - SUMMARY OF STANDARD MANHOLE COVER AND FRAME SIZES

COVER SIZE (IN)	FRAME SIZE (IN)	COVER WEIGHT (LBS)	FRAME WEIGHT (LBS)
18"	20"	15	25
24"	26"	25	35
30"	32"	35	45
36"	38"	45	55
42"	44"	55	65
48"	50"	65	75
54"	56"	75	85
60"	62"	85	95
66"	68"	95	105
72"	74"	105	115
78"	80"	115	125
84"	86"	125	135
90"	92"	135	145
96"	98"	145	155
102"	104"	155	165
108"	110"	165	175
114"	116"	175	185
120"	122"	185	195
126"	128"	195	205
132"	134"	205	215
138"	140"	215	225
144"	146"	225	235
150"	152"	235	245
156"	158"	245	255
162"	164"	255	265
168"	170"	265	275
174"	176"	275	285
180"	182"	285	295
186"	188"	295	305
192"	194"	305	315
198"	200"	315	325
204"	206"	325	335
210"	212"	335	345
216"	218"	345	355
222"	224"	355	365
228"	230"	365	375
234"	236"	375	385
240"	242"	385	395
246"	248"	395	405
252"	254"	405	415
258"	260"	415	425
264"	266"	425	435
270"	272"	435	445
276"	278"	445	455
282"	284"	455	465
288"	290"	465	475
294"	296"	475	485
300"	302"	485	495
306"	308"	495	505
312"	314"	505	515
318"	320"	515	525
324"	326"	525	535
330"	332"	535	545
336"	338"	545	555
342"	344"	555	565
348"	350"	565	575
354"	356"	575	585
360"	362"	585	595
366"	368"	595	605
372"	374"	605	615
378"	380"	615	625
384"	386"	625	635
390"	392"	635	645
396"	398"	645	655
402"	404"	655	665
408"	410"	665	675
414"	416"	675	685
420"	422"	685	695
426"	428"	695	705
432"	434"	705	715
438"	440"	715	725
444"	446"	725	735
450"	452"	735	745
456"	458"	745	755
462"	464"	755	765
468"	470"	765	775
474"	476"	775	785
480"	482"	785	795
486"	488"	795	805
492"	494"	805	815
498"	500"	815	825
504"	506"	825	835
510"	512"	835	845
516"	518"	845	855
522"	524"	855	865
528"	530"	865	875
534"	536"	875	885
540"	542"	885	895
546"	548"	895	905
552"	554"	905	915
558"	560"	915	925
564"	566"	925	935
570"	572"	935	945
576"	578"	945	955
582"	584"	955	965
588"	590"	965	975
594"	596"	975	985
600"	602"	985	995



- NOTES:**
1. SPENT STEEL TAPPING SLEEVE AND VALVE SHALL BE INSTALLED IN THE MAIN PIPE.
 2. THE TAPPING SLEEVE SHALL BE INSTALLED IN THE MAIN PIPE AND SHALL BE INSTALLED IN THE MAIN PIPE.
 3. THE TAPPING SLEEVE SHALL BE INSTALLED IN THE MAIN PIPE AND SHALL BE INSTALLED IN THE MAIN PIPE.
 4. THE TAPPING SLEEVE SHALL BE INSTALLED IN THE MAIN PIPE AND SHALL BE INSTALLED IN THE MAIN PIPE.

TAPPING SLEEVE & VALVE

**RUBBER BOOT
AND
CONNECTION DETAIL**



- NOTES:**
1. THE RUBBER BOOT SHALL BE INSTALLED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, EDITION 2003, SECTION 210.
 2. THE RUBBER BOOT SHALL BE PROVIDED WITH A 24-INCH DIAMETER MANHOLE COVER AND FRAME.
 3. THE RUBBER BOOT SHALL BE PROVIDED WITH A 24-INCH DIAMETER MANHOLE COVER AND FRAME WITH A 2:1 SLOPE.
 4. THE RUBBER BOOT SHALL BE PROVIDED WITH A 24-INCH DIAMETER MANHOLE COVER AND FRAME WITH A 2:1 SLOPE.
 5. THE RUBBER BOOT SHALL BE PROVIDED WITH A 24-INCH DIAMETER MANHOLE COVER AND FRAME WITH A 2:1 SLOPE.
 6. THE RUBBER BOOT SHALL BE PROVIDED WITH A 24-INCH DIAMETER MANHOLE COVER AND FRAME WITH A 2:1 SLOPE.
 7. THE RUBBER BOOT SHALL BE PROVIDED WITH A 24-INCH DIAMETER MANHOLE COVER AND FRAME WITH A 2:1 SLOPE.
 8. THE RUBBER BOOT SHALL BE PROVIDED WITH A 24-INCH DIAMETER MANHOLE COVER AND FRAME WITH A 2:1 SLOPE.

**SANITARY VALVE &
VALVE BOX DETAILS**



- NOTES:**
1. THE VALVE SHALL BE INSTALLED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, EDITION 2003, SECTION 210.
 2. THE VALVE SHALL BE PROVIDED WITH A 24-INCH DIAMETER MANHOLE COVER AND FRAME.
 3. THE VALVE SHALL BE PROVIDED WITH A 24-INCH DIAMETER MANHOLE COVER AND FRAME WITH A 2:1 SLOPE.
 4. THE VALVE SHALL BE PROVIDED WITH A 24-INCH DIAMETER MANHOLE COVER AND FRAME WITH A 2:1 SLOPE.
 5. THE VALVE SHALL BE PROVIDED WITH A 24-INCH DIAMETER MANHOLE COVER AND FRAME WITH A 2:1 SLOPE.
 6. THE VALVE SHALL BE PROVIDED WITH A 24-INCH DIAMETER MANHOLE COVER AND FRAME WITH A 2:1 SLOPE.
 7. THE VALVE SHALL BE PROVIDED WITH A 24-INCH DIAMETER MANHOLE COVER AND FRAME WITH A 2:1 SLOPE.
 8. THE VALVE SHALL BE PROVIDED WITH A 24-INCH DIAMETER MANHOLE COVER AND FRAME WITH A 2:1 SLOPE.

**PARKER MYNCHENBERG
& ASSOCIATES, INC.**

PROFESSIONAL ENGINEERS • LANDSCAPE ARCHITECTS

1722 RICHMOND AVENUE • HOUSTON, TEXAS 77002
 (713) 865-1100 • FAX (713) 865-1101
 www.parkermynchenberg.com

SEWER STANDARD DETAILS

FIRST STEP
HOMELESS ASSISTANCE SHELTER

DATE: 12/17/13
 BY: J. B. BROWN
 CHECKED: J. B. BROWN

SUMMARY OF PAY ITEMS

1000000 JOHN WOOD BUILDING IMPROVEMENTS

ENGINEER'S QUANTITY ESTIMATE

PLANNING & BIDDING

ITEM DESCRIPTION	QUANTITY	UNIT
1 Mobilization	1	LS
2 Clearing & Grading	4	LS
3 Excavation	1	LS
4 Manufacture of Shells	1	LS
5 24" RCP	1	LS
6 24" RCP	1	LS
7 24" RCP	1	LS
8 24" RCP	1	LS
9 24" RCP	1	LS
10 1/2" 20' x 20' x 3' Support Structure Concrete (Type C)	1	LS
11 1/2" 20' x 20' x 3' Support Structure Concrete (Type C)	1	LS
12 1/2" 20' x 20' x 3' Support Structure Concrete (Type C)	1	LS
13 1/2" 20' x 20' x 3' Support Structure Concrete (Type C)	1	LS
14 1/2" 20' x 20' x 3' Support Structure Concrete (Type C)	1	LS
15 1/2" 20' x 20' x 3' Support Structure Concrete (Type C)	1	LS
16 1/2" 20' x 20' x 3' Support Structure Concrete (Type C)	1	LS
17 1/2" 20' x 20' x 3' Support Structure Concrete (Type C)	1	LS
18 1/2" 20' x 20' x 3' Support Structure Concrete (Type C)	1	LS
19 1/2" 20' x 20' x 3' Support Structure Concrete (Type C)	1	LS
20 1/2" 20' x 20' x 3' Support Structure Concrete (Type C)	1	LS

WATER

ITEM DESCRIPTION	QUANTITY	UNIT
18 1/2" 20' x 20' x 3' Support Structure Concrete (Type C)	1	LS
19 1/2" 20' x 20' x 3' Support Structure Concrete (Type C)	1	LS
20 1/2" 20' x 20' x 3' Support Structure Concrete (Type C)	1	LS
21 1/2" 20' x 20' x 3' Support Structure Concrete (Type C)	1	LS
22 1/2" 20' x 20' x 3' Support Structure Concrete (Type C)	1	LS
23 1/2" 20' x 20' x 3' Support Structure Concrete (Type C)	1	LS
24 1/2" 20' x 20' x 3' Support Structure Concrete (Type C)	1	LS
25 1/2" 20' x 20' x 3' Support Structure Concrete (Type C)	1	LS
26 1/2" 20' x 20' x 3' Support Structure Concrete (Type C)	1	LS
27 1/2" 20' x 20' x 3' Support Structure Concrete (Type C)	1	LS
28 1/2" 20' x 20' x 3' Support Structure Concrete (Type C)	1	LS
29 1/2" 20' x 20' x 3' Support Structure Concrete (Type C)	1	LS
30 1/2" 20' x 20' x 3' Support Structure Concrete (Type C)	1	LS

FIRE SPRING

ITEM DESCRIPTION	QUANTITY	UNIT
31 1/2" 20' x 20' x 3' Support Structure Concrete (Type C)	1	LS
32 1/2" 20' x 20' x 3' Support Structure Concrete (Type C)	1	LS
33 1/2" 20' x 20' x 3' Support Structure Concrete (Type C)	1	LS
34 1/2" 20' x 20' x 3' Support Structure Concrete (Type C)	1	LS
35 1/2" 20' x 20' x 3' Support Structure Concrete (Type C)	1	LS

WATER

ITEM DESCRIPTION	QUANTITY	UNIT
36 1/2" 20' x 20' x 3' Support Structure Concrete (Type C)	1	LS
37 1/2" 20' x 20' x 3' Support Structure Concrete (Type C)	1	LS
38 1/2" 20' x 20' x 3' Support Structure Concrete (Type C)	1	LS
39 1/2" 20' x 20' x 3' Support Structure Concrete (Type C)	1	LS
40 1/2" 20' x 20' x 3' Support Structure Concrete (Type C)	1	LS
41 1/2" 20' x 20' x 3' Support Structure Concrete (Type C)	1	LS
42 1/2" 20' x 20' x 3' Support Structure Concrete (Type C)	1	LS
43 1/2" 20' x 20' x 3' Support Structure Concrete (Type C)	1	LS
44 1/2" 20' x 20' x 3' Support Structure Concrete (Type C)	1	LS
45 1/2" 20' x 20' x 3' Support Structure Concrete (Type C)	1	LS
46 1/2" 20' x 20' x 3' Support Structure Concrete (Type C)	1	LS

NON-PERMANENT & TEMPORARY CONSTRUCTION

ITEM DESCRIPTION	QUANTITY	UNIT
47 1/2" 20' x 20' x 3' Support Structure Concrete (Type C)	1	LS
48 1/2" 20' x 20' x 3' Support Structure Concrete (Type C)	1	LS
49 1/2" 20' x 20' x 3' Support Structure Concrete (Type C)	1	LS
50 1/2" 20' x 20' x 3' Support Structure Concrete (Type C)	1	LS

1000000 JOHN WOOD BUILDING IMPROVEMENTS
ENGINEER'S QUANTITY ESTIMATE
PLANNING & BIDDING

PARKER MYNCHENBERG & ASSOCIATES, INC.
 PROFESSIONAL ENGINEERS • LANDSCAPE ARCHITECTS
 728 ROCKWOOD AVENUE, HOLLY HILL, FLORIDA 32117
 (407) 431-2211
 MEMBER OF ASSOCIATION NUMBER 00000000

FIRST STEP
 HOMELESS ASSISTANCE SHELTER
 LANDSCAPE ARCHITECTURE
 7/23/21
 1000000 JOHN WOOD BUILDING IMPROVEMENTS



FOLLOW-UP DOCUMENTATION FROM CODB - RECEIVED OCTOBER 18, 2017

RECEIVED

CITY MANAGER'S OFFICE

OCT 4 2017

AM

7 8 9 10 11 12 1 2 3 4 5 6

PM

THE FOLLOWING IS A PERSONAL RESPONSE
WITH EXHIBITS

TO COMMENTS MADE

TO

THE DAYTONA BEACH CITY COMMISSION

ON 20 SEPTEMBER 2017

CONCERNING THE HOMELESS ISSUE

L. WILLIAM CHAPIN, II, FAIA

RESPONSE TO SEPTEMBER 20 DAYTONA BEACH COMMISSION MEETING

At the September 20 Commission meeting, Deputy Manager Morris gave a presentation on the homeless issue that included many inaccuracies and deletions, starting with his inferring that my work on the project only started with my tensile fabric proposal. In fact, it actually started over four years prior when I had worked extensively with Stewart-Marchman/ACT, Halifax Urban Ministries, FAITH, and Dr. Robert Marbut to design the 4-pavilion Safe Harbor shelter on County land at Red John Road. (See attachment 1.)

My involvement with D.B. only started a year and a half ago when Mr. Chisholm issued an RFP for the project, which resulted in my being selected to enter into a contract with D.B. to be the architect. (See attachments 2.) My fee proposal to Mr. Shimun was based on 7%, which he thought was very reasonable. In fact, it was the same contract proposal under which I presently work for the Hope Place Family Shelter project.

By then, the work that I brought to the City had already been completed through Design Development. We were moving toward my entering into contract with D.B. when budgetary issues arose. In response, Mr. Chisholm asked me to propose a version that would substantially cut the cost. I then redesigned the project into the two pavilion version, and enlisted a number of professionals to confirm pricing (See attachment 3.)

Before I could enter into contract with D.B., Mr Chisholm arbitrarily decided that he wanted a prefab design - this despite the fact that he had been advised by Dr. Marbut that prefab. would not work because of its inability to conform to the programmatic needs of a shelter, along with durability issues. Dr. Marbut even pointed out the debacle of a prefab. homeless project that had been erected in Key West. Further, both city engineer Van Pelt and I at that meeting pointed out that, in the end, prefab might be modestly quicker to erect, but would not save money over a conventional version.

It was at that meeting when I pointed out to Mr. Chisholm that a tensile fabric version might work and should be investigated, Mr. Chisholm responded "I don't want a tent." That was the last I heard from Mr. Chisholm, so there was again no scope of the project to go to contract on at that time.

However, convinced that the shelter program would ultimately go forward, I decided to investigate the tensile fabric idea on my own. So, based on my extensive knowledge of the complexities of the homeless shelter mission, I converted all my prior research into a tensile fabric version, with extensive consulting with Big Top Inc. of Perry, FL, the best fabricator/installer in the tensile fabric industry. We worked together to arrive at the in-depth project which you now will have seen. (See attachment 4.) Additionally, I asked the module suppliers, Modspace, Inc. and Mobilmini, Inc. to inform me of what they could do to provide the service modules that would be required for the project.

They were both most cooperative, and their concept proposals confirm the viability of their ability to support tensile fabric approach.

So when the Homeless 501(c)(3) was formed and convened their first meeting in February during public comments, I introduced my Tensile fabric version, which was well received, and in subsequent D.B. powerpoint presentations, and in extensive work by FAITH and Catholic Charities to prepare for its operation, it was the model used.

I had always presumed that when the final scope of the project was determined, I would proceed to contract for the project, since the RFP from over a year ago still was in place. In fact Mr. Doug Kurtock with the D.B. staff even contacted me to discuss the contract. (See attachment 5.)

Then, two months later, Mr. Chisholm unilaterally announced to the 501(c)(3) board that he had selected Hall & Ogle to be the architects, at roughly 9.5%, not counting money already likely paid them for the project under the continuing contract. Further, he was proposing building a conventional structure that would cost in excess of the money allocated, despite his insupportable claims to the contrary. Staff attempted to rationalize his proposal via Mr. Morris' deeply flawed "update" of the homeless project, but it failed to ring true. (See attachment 6.) The commission's reaction was to take my advice and call for an independent professional review of both versions.

What is now concerning is that Mr. Morris, in his September 20th. Commission presentation, stated that I had no solid proposal, and that he would only be passing on to the consultant the little information the Chisholm's office had on my proposal, This would virtually exclude the extensive work I have completed on the Tensile Fabric version.

In light of all these irregularities, I would strongly urge the commission to instruct Staff to require that the consultant speak in person with both myself and the Hall & Ogle firm. To be perfectly frank, having Mr. Morris filter and convey "the facts" to the consultant immediately sets aside the independence which the Commission truly needs to make informed decisions going forward. Conveying of the facts from design professional to design professional would be critical to the independence, comprehensiveness, and accuracy of the consultant's final report. It would also substantially expedite the consultant's work.

One final personal note. I have been asked why I am pursuing this effort so stridently. I have over \$15,000,000 of high-end projects in my pipeline - all with professional and straightforward clients. If it were not for my deep commitment to the cause I would not be spending the large amount of time this effort has taken. I would hope the same commitment would be the driver for all of us. This effort is too important for any of us from now on to be anything but honest and professional and committed to action.

L. William Chapin, II, FAIA
Architect

September 25, 2017

EXHIBIT 1

17 April 2016

PROGRAM:

Erect a full-service homeless recovery facility at the foot of Red John Road, across the street from the Stewart-Marchman ACT crisis center, and 1/4 mile from the Volusia County jail. The facility will be close to the center of the county.

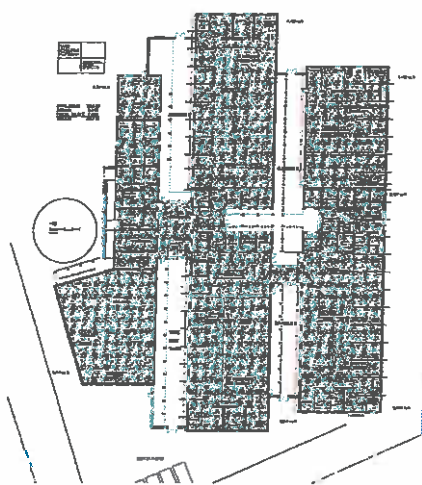
The facility will consist of four residential pavilions along with staff and service components. The pavilions will be constructed of steel frame mounted on block perimeter walls, with the roof pitched 20 degrees toward the south. The pavilions will have high clerestory windows with remote motorized opening hardware on the north walls and operable windows at eye level on the south walls, so that the windows can be opened at appropriate times to enhance century effect air movement through the pavilions, which will be aided by large ceiling fans.

Three staff offices per pavilions will have both direct access into the pavilions and to the outside. The pavilions will each have lavatory and bathing components, as well as a lounge at one end of the open space. A highly efficient straight-line HVAC system will maintain a comfort level within the pavilions of 60°-80°.

The pavilions are configured to be expandable lengthwise, and a second band of pavilions could be added northward if additional capacity were to be needed in the future. The slabs for these two more pavilions should be constructed as part of phase 1, as they would be useful for other outdoor activities as shown

Staff and service spaces are provided and connected to the pavilions by covered walkways so as to avoid costly internal corridors, similar to the strategy used to connect "portables" in schools.

The 28,000 sq. ft. of sloping roofs will provide the ability to install sufficient photovoltaic collectors to power the needs of the entire facility.



BUILDING AREAS AND COSTS:

Pavilion 1 - 6,250 sq. ft.	
Pavilion 2 - 6,200 sq. ft.	
Pavilion 3 - 6,740 sq. ft.	
Pavilion 4 - 4,650 sq. ft.	
Total pavilions - 23,840 sq. ft. @ \$85.00/ft =	\$2,026,400
Kitchen/Storage - 2,580 sq. ft. @ \$110.00/ft =	\$ 283,000
Reception/triage/support - 6,380 sq. ft. @ 120.00/ft =	\$ 701,800
Building total: 32,800 sq. ft. =	\$3,011,200

PAD AREA

Pad area = 53,000 sq. ft (1.23 acres)	
Mitigation @ \$100,000/acre.	
fill @ \$10/sq.yd placed	
\$150,000 site improvements (sewer, water, storm water, paving)	
Total pad placement complete =	\$ 475,000
SUB-TOTAL	\$3,486,200

Fees, contingencies (10%) =	\$ 349,000
PROJECT TOTAL =	\$3,835,200



EXHIBIT 2



THE CITY OF DAYTONA BEACH OFFICE OF THE PURCHASING AGENT

Post Office Box 2451
Daytona Beach, Florida 32115-2451

Phone (386) 671-8080
Fax (386) 671-8085

January 28, 2016

Via Email 1/28/16: lwchapin@earthlink.net

Mr. L. William Chapin, II, FAIA
Wm Chapin Architect
315 N, Atlantic Ave.
Daytona Beach, FL 32118

Re: **RFP 0216-0250**
Volusia Safe Harbor Professional Design Services

Dear Mr. Chapin:

It is my pleasure to inform you that your firm was selected by the City Manager for negotiation of the referenced contract.

Brent Cohen, Project Manager, will be contacting you to commence contract negotiations.

Thank you for your submittal for this project. Please don't hesitate to contact me at 386-671-8082 if you have any questions or concerns.

Sincerely,

Joanne Flick, CPPO, CPPB
Purchasing Agent

C: Gary Shimum, Deputy City Manager/Administration
Patricia Bliss, Chief Financial Officer
David Waller, Acting Public Works Director
Frank VanPelt, Technical Services Director
Jim Nelson, City Engineer
Brent Cohen, Project Manager
Ben Gross, Assistant City Attorney

EXHIBIT 2 continued

DATE: July 28, 2016
TO: Gary Shimun
FROM: L. Wm. Chapin, II, FAIA
SUBJECT: Fee outline

FIRST STEP FEE PROPOSAL

Gary, concerning the contract, I would suggest several things. First off, the "Safe Harbor" plan has been refined and vetted with Marbut, so that plan - which fits on either side of SR-92, could be moved into working drawing as it stands today.

If we follow the contract format I'm operating under for Hope Place, it would be a 7% all-inclusive fee, with the contract broken into:

• Retainer	10%
• Concept-Design Development stage	20%
• Contract Document stage, broken into	
30% completion stage	14%
60% completion stage	14%
90% completion stage	14%
100% completion stage	14%
• Construction monitoring stage <u>through completion</u>	<hr/> 14%
TOTAL:	100%

We should probably start with a projected budget of \$3,000,000.00, with an adjustment following the CM's initial pricing.

The temporary part - whatever mode is finally determined - might be on an hour basis with a cap, since I would not be "inventing" the structure.

We are about to appoint the CM at the 30% phase, and the selected CM and I will be working toward a final NTE price,

I'd suggest the following phases:

The first being the slab and whatever rests on it for the temporary phase

Then the "phase 1" part, or the service building and the first two pavilion.

Then finally pavilions 3 & 4.

EXHIBIT 3

PROGRAM:

Erect a full-service homeless recovery facility at the foot of Red John Road, across the street from the Stewart-Marchman ACT crisis center, and 1/4 mile from the Volusia County jail. The facility will be close to the center of the county.

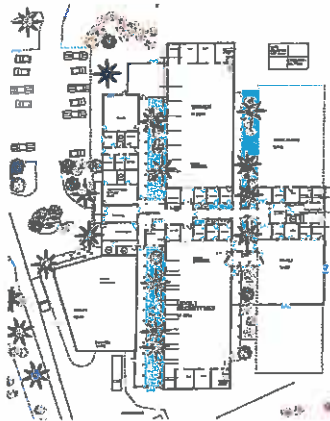
The facility will initially consist of two residential pavilions along with staff and service components. The pavilions will be constructed of steel frame mounted on block perimeter walls, with the roof pitched 20 degrees toward the south. The pavilions will have high clerestory windows with remote motorized opening hardware on the north walls and operable windows at eye level on the south walls, so that the windows can be opened at appropriate times to enhance century effect air movement through the pavilions, which will be aided by large ceiling fans.

Three staff offices per pavilion will have both direct access into the pavilions and to the outside. The pavilions will each have lavatory and bathing components, as well as a lounge at one end of the open space. A highly efficient straight-line HVAC system will maintain a comfort level within the pavilions of 60°-80°.

The pavilions are configured to be expandable lengthwise, and a second band of pavilions could be added northward if additional capacity were to be needed in the future. The slabs for these two more pavilions should be constructed as part of phase 1, as they would be useful for other outdoor activities as shown.

Staff and service spaces are provided and connected to the pavilions by covered walkways so as to avoid costly internal corridors, similar to the strategy used to connect "portables" in schools.

The 28,000 sq. ft. of sloping roofs will provide the ability to install sufficient photovoltaic collectors to power the needs of the entire facility.



BUILDING AREAS AND COSTS:

Pavilion 1 - 6, 250 sq. ft.
Pavilion 2 - 6,200 sq. ft.

Total pavilions - 12,450 sq. ft. @ \$85.00/ft =	\$1,058,250
Kitchen/Storage - 2,580 sq. ft. @ \$110.00/ft =	\$ 283,800
Reception/triage/support - 6,380 sq. ft. @ 120.00/ft =	\$ 701,800
Building total: 32,800 sq. ft. =	\$2,043,850

PAD AREA

Pad area = 53,000 sq. ft (1.23 acres)	
Mitigation @ \$100,000/acre.	
fill @ \$10/sq.yd placed	
\$150,000 site improvements (sewer, water, storm water, paving)	
Total pad placement complete =	\$ 475,000
SUB-TOTAL	\$2,518,850

Fees, contingencies (10%) =	\$ 251,800
PROJECT TOTAL =	\$2,769,850

ANALYSIS CONTRIBUTORS:

Coleman-Goodemote construction - Harold Goodemote
General building construction

Atlantic Central Industries - Steve Traulsen
Steel frame production and erection

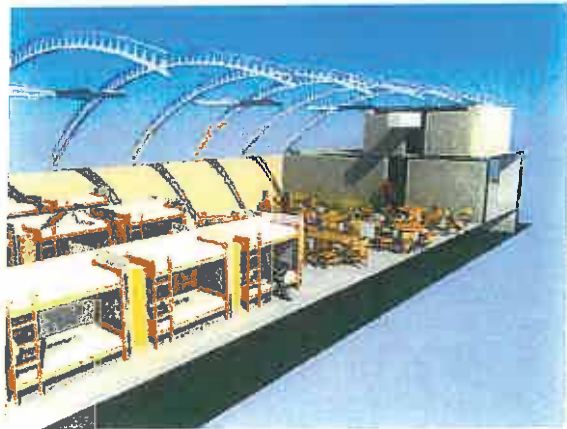
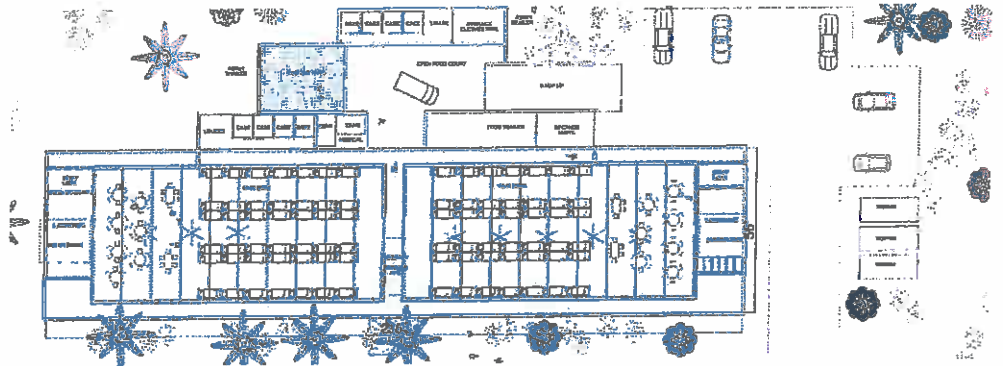
Zev Cohen & Associates - Bobby Ball, CE
Civil engineering

Solar-Fit Energy Management Systems - Bill Gallagher
Solar thermal and photovoltaic systems

LEPCORE Structural Insulated panels, Inc - John Norquist
Pavilion roof deck system



EXHIBIT 4



**FIRST STEP
HOMELESS ASSISTANCE CENTER
30% completion stage**

EXHIBIT 5



September 26, 2017

Bill Chapin
 L. William Chapin
 315 North Atlantic Ave
 Daytona Beach, FL 32118


Dear Mr. Bill Chapin,

Please review the following quotation.

Proposal for: L. William Chapin

ITEM	QTY	DESCRIPTION	PRICE
Vinyl Structure	2	<ul style="list-style-type: none"> • 50' Wide X 100' Long X 20' Center Height X 12' Side wall \$60,000.00 per building 28 OZ. Cover, Translucent White, Flame Retardant PVC Laminated fabric with polyester scrim. Frame Members: 24" truss using heavy wall tubular steel on 10' centers. Anchoring to be provided for a customer supplied concrete mounted foundation Unless otherwise stated, foundations other than concrete are assumed at 90% compaction or greater. It is the customer's responsibility to specify any foundation requirements prior to placing order. Fabric will end at ground level. All weld joints are coated for corrosion protection. All connections are made using a male to female/slip fit junction. 	\$ 120,000.00
End Wall	4	<ul style="list-style-type: none"> • Access end wall. 1ea 10'wide x 10'high disappearing door per building and 2ea personnel door per end wall, per building. Disappearing door to include all the necessary winch, trolleys, pulleys, cables, and a manual winch. Disappearing doors are not a pre engineered door system and should be considered a flap. Engineered door systems are available but require additional funds. 	Included



HVAC Kit	2	<p>• 6 each 480 volt 3 phase 10ton HVAC units – 3 per building Units will include panel box(s). Panel box(s) are to be installed in the corner of the building, power cable, remote box and cable, panel box, and 20' of supply and return M&S Spec Flex Ducts. Units cannot be exchanged for a different power supply once ordered! Please specify your power requirements prior to placing an order if they are different from what is listed above! Additional charges may apply for optional power supplies.</p>  <p>The main power and connection to the panel box is the responsibility of the customer! The customer is responsible for ensuring that each HVAC unit is wired properly prior to commissioning each unit. If the customer neglects to insure the HVAC motors have been wired properly you run the risk of damaging the motors. The customer will bear all financial cost to replace or repair the HVAC unit in the event this occurs. Units will be installed up to 15' around the perimeter of the shelter. Customer is responsible for ensuring that area is level. Units have to be installed on a level grade.</p>	\$ 84,000.00
Installation Estimated: 4 work days per building	1	<p>• Installation: Big Top Shelters will install the above shelter systems at your Daytona Beach, FL 32118 facility. Big Top Shelters will be responsible for all equipment, and non-union labor. Customer will be responsible for any and all safety course(s), training, 24/7 access to the site, removing all underground and overhead utilities, permits, dumpster for trash removal, foundation work, portalet or toilet facilities in near proximity to the site, special badges for clearance etc. prior to mobilization. Big Top Shelters is an installer of our product. We are not a construction company. If your site requires special licenses, has permit requirements, then a general contractor may be required. (See Installation clause at the bottom of page.)</p>	\$ 27,500.00
Engineering	1	<p>• Engineering: Stamped engineering by a professional engineer If your site requires special licenses, permits, or other accessory items to meet the local code requirements or project specific requirements then a general contractor may be required. If the shelter is purchased or installed prior to any permit approval the customer bears the cost of any upgrades to meet local code. All engineering to support the structure is considered "by others", unless specifically noted on our drawings. That includes, but is not limited to, Shipping containers, concrete, soil, asphalt, custom support steel, etc.</p>	\$ 1,800.00
Trim Kit	1	<p>• Trim Kit Seals fabric to building base rail or specified foundation Please specify prior to placing order</p>	Optional



Shipping and Handling	1	<p>• Pre pay and add: Daytona Beach, FL 32118</p> <p><small>Shipping is primarily via 102" x 45" long tubbed trailers. To maximize stacking, there is little to no clearance below the frames. Due to weight and handling issues, damage can possibly result in damage to the frames. If you require clearance there COULD be additional costs due to increased space on the trailer or special stacking requirements.</small></p>	\$ 2,400.00
GRAND TOTAL		US DOLLARS.	\$ 235,700.00

Big Top Manufacturing
 Toll Free 1-800-277-8677 - International 011-850-584-7786
www.bigtopshelters.com
L.houck@bigtopshelters.com

Big Top Manufacturing
Toll Free 1-800-277-8677 - International 011-850-584-7788
www.bigtopshelters.com
L.houck@bigtopshelters.com



Technical assistance/installation clause:

Fees for services are \$ 830.00 for the United States and its territories, Canada, and the Caribbean. International Services are \$1100.00 USD per day per person. Included is hotel, rental car, meals, taxes, and airport parking. Expenses for airfare, visas, transfers, special job site training, ferries, and others will be billed at actual costs. On domestic and international installations, the daily fee extends from portal to portal from Perry, Florida. The Daily fee continues during the week Monday through Sunday regardless of whether work can be performed on Saturday or Sunday. Travel arrangements and accommodations are to be arranged or agreed to by Big Top Mfg. or the technician. (Domestic & International flights are to be coach class and the hotel accommodations are to be with a standard chain hotel). All remaining balances will be settled on prior to the departure of the technician from the job site. There may be some international regions where a service technician is not available. Call for details.

Big Top will not be responsible for any damage to the grounds, shrubbery, underground utilities, asphalt, concrete, etc. due to the normal construction process necessary to install the above shelters unless specifically provided for in the purchase contract.

In the event the above proposal includes metal/aluminum entry equipment doors, unless the shelter is built on level concrete, we cannot take responsibility for its operation. If uneven - such as is routinely encountered on asphalt or soil, the framework will likely require modification on site resulting in additional costs.

Big Top will provide soil or concrete wedge anchors as a standard form of anchoring. Big Top makes no representation as to the structural integrity or suitability of the concrete or soil. Any other anchoring surface or method is at the sole risk of the end user. No representation is made as to water drainage due to slope or foundation issues.

Shelter is to be installed in accordance with the provided assembly instructions, under the guidance of our technician or via Big Top. If the end user chooses to owner install the shelter, finished photos are required including photos of the shelter with the anchors properly installed. In the event the shelter is ever relocated, new photos will be required including anchorage photos.

In the event the end user chooses to employ our technician, we make no representation as to the quality, suitability, or performance of the laborers or equipment provided. The estimate given is based upon typical installations worldwide but is not a guaranteed level of performance.

If Big Top is to fully install the shelter, unencumbered access is necessary. We assume a 7 day workweek. If the weekends cannot be worked, we will need to know this in ADVANCE to modify the proposal.

End user is responsible for permitting and any local taxes or tariffs, if any. If a turn-key installation by Big Top, it is the end user's responsibility to determine Big Top's ability to install the shelter based upon local licensing or permitting issues. All costs associated with this to be borne by the end user.

Shelter is defined as an equipment item. Proper maintenance is necessary to extend the life of the shelter frame, fabric, doors, and access panels. Proper maintenance includes but is not limited to checking fabric for proper taught ness and adjusting as necessary, adjusting cables, pulleys, trolleys, turnbuckles, lubricating moving parts, inspecting nuts, bolts, etc.

Lighting, winches, heating, A/C, dehumidification units, doors, etc. are covered under the product manufacturer's warranty.

Big Top Shelters is the installer of our product. We are not a construction company. If your site requires special licenses, permitting, or other accessory items to meet your local code requirements than a general contractor may be required. If the shelter is purchased or installed prior to permit approval the customer bears the cost of any upgrades to meet local code.

EXHIBIT 6

RESPONSE TO 6 SEPTEMBER 2017 D.B. COMMISSION MEETING

There were a number of critical errors in Mr. Morris' update memo on First step published in the September 6th agenda that you Commissioners need to know. Mr. Morris' errors are forgivable due to his being new to the staff.

Starting with Tensile fabric's performance, we are designing the structure with 28 oz. fabric which would withstand 130MPH wind and would have a useful life of approximately 25 years.

It would be placed on a deck of precast planks carried on a simple block perimeter wall. I suggested that the under-slab area could possibly be a temporary qualifier for stormwater, but it wouldn't slow things down to provide conventional stormwater retention on site, which I understand Parker Mynchenberger is already designing.

The price from Mr Houck at Big Top, Inc. is a not-to-exceed, installed, materials and labor lump sum. That with the other costs such as the baths, staff offices, and other support items are also predictable, and as has been reported extensively before, this would bring the total cost delivered to below \$1,500,000.00

Because of the fact that the T.F. proposal is assembled at once as opposed to being built in multi-phases like conventional structures, the time to erect, as confirmed by Big Top Inc, based on many similar previous projects, would not exceed 5 months.

Service modules, such as offices and baths, provided by companies such as Mid-Space, Inc, or Mobile Mini, have a 2 mo lead time. They would be attaching them low enough at the perimeter of the deck to give full ADA compliance. .

Finally, the design securely accommodates the fluctuating male/female population ratios. The 12,000 sq. ft. has been designed for 80 person occupancy for single beds, or 160 people in bunks.

As per the conventional proposal of 15,900 sq. ft, anyone familiar with the current building climate will tell you that providing a conventional structure such as this for less than \$150.00/ft is delusional. Therefore, this structure would have to cost at best in excess of \$2,400,000.

The conventional proposal maybe could be built in 9 months if everything went smoothly. However, since the architect has not even been chosen, the time to confirm concepts, do construction documents, coordinate with a number of consultants, go out for bids, select the contractor, and go to contract would take four months minimum before construction could start, for a total of over 13 months to completion.

So Rev. Durham's comparison sheets should be corrected to show that nearly a year and over \$1,000,000 is saved by using tensile Fabric.

Now, to eliminate any lingering doubt, might I suggest that you commissioners request that an independent professional be retained to review all aspects of the two building types and report back to you at your next meeting. Until then, selecting a architect would be premature.

6 September 2017
L. William Chapin, II, FAIA
Architect