



THE COUNTY OF GALVESTON

RUFUS G. CROWDER, CPPO, CPPB
PURCHASING AGENT

GWEN MCLAREN, CPPB
ASST. PURCHASING AGENT

COUNTY COURTHOUSE
722 Moody (21st Street)
Fifth (5th) Floor
GALVESTON, TEXAS 77550
(409) 770-5371

March 14, 2018

PROJECT NAME: Bolivar Beach Pavilion

BID NO: B181016

RE: ADDENDUM #1

To All Prospective Proposers,

The following information is being provided to aid in preparation of your proposal submittal(s):

REVISED BID OPENING DATE:

Due to the amount of inquiries received, the bid opening date has been revised. The new bid opening date is as follows:

Date: Wednesday, March 28, 2018
Time: 2:00 P.M.

ATTACHMENTS:

The designs in the original bid packet dated September 29, 2017 have been updated. The correct designs for RFP #B181016, Bolivar Beach Pavilion, are dated December 12, 2017 and have been included with this addendum. Please refer to them in your proposal submittals.

As a reminder, all questions regarding this proposal must be submitted in writing to:

Rufus G. Crowder, CPPO CPPB
Galveston County Purchasing Agent
722 Moody, Fifth (5th) Floor
Galveston, Texas 77550
E-mail: rufus.crowder@co.galveston.tx.us

If you have any further questions regarding this proposal, please address them to Rufus Crowder, CPPO CPPB, Purchasing Agent, via e-mail at rufus.crowder@co.galveston.tx.us, or contact the Purchasing Department at (409) 770-5371.

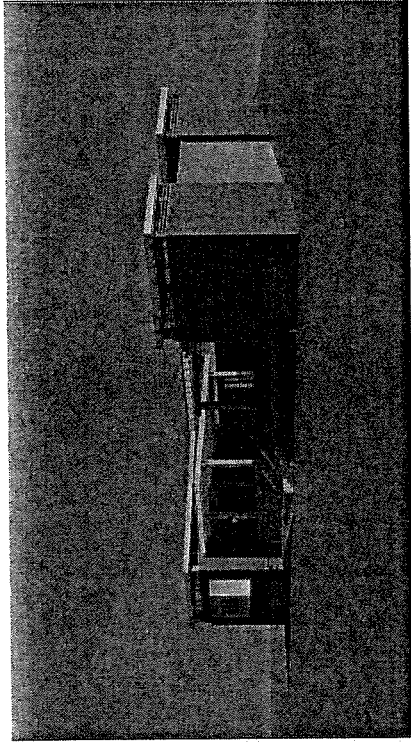
Please excuse us for any inconvenience that this may have caused.

Sincerely,

A handwritten signature in cursive script that reads "Rufus Crowder" with a small "r.d." above the name.

Rufus G. Crowder, CPPO CPPB
Purchasing Agent
Galveston County

COUNTY APPROVAL: _____ DATE _____
 SIGNATURE _____



GALVESTON COUNTY BEACH PAVILION

- CIVIL DRAWINGS
- C0.01 GENERAL NOTES
- C1.01 SITE PLAN
- C1.02 WATER & SANITARY PLAN
- C1.03 PAVING & DRAINAGE PLAN
- C1.04 SWPPP PLAN
- C2.01 PAVING DETAILS
- C2.02 STORM SEWER DETAILS
- C2.03 SWPPP DETAILS
- ARCHITECTURAL DRAWINGS
- G0.1 GENERAL NOTES
- G0.2 CODE
- G0.3 TASI/ADA
- A0.1 SITE PLAN
- A0.2 EXISTING CONTOURS
- A1.1 LOWER LEVEL PLAN
- A1.2 UPPER LEVEL PLAN
- A1.3 ROOF PLAN AND DETAILS
- A1.4 REFLECTED CEILING PLAN
- A1.5 FLOORING/PAVING PLAN
- A2.1 EXTERIOR ELEVATIONS
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- A2.3 EXT. ELEV. OF COURTYARD FACES
- A2.4 EXT. ELEV. OF SCREEN WALL
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- A3.2 WALL SECTIONS
- A3.3 WALL SECTIONS
- A3.4 WALL SECTIONS
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- A6.2 WINDOW SCHEDULE
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- A7.3 CASEWORK
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- A7.5 RESTROOM ELEVATIONS
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- STRUCTURAL DRAWINGS
- S0.01 GENERAL NOTES
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- S1.02 FOUNDATION PLAN
- S1.03 ENLARGED RAMP-STAIR FOUNDATION PLAN
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- S4.03 FOUNDATION DETAILS
- S4.04 FOUNDATION DETAILS
- S5.01 BLOCK WALL DETAILS
- S5.02 FRAMING DETAILS
- S5.03 FRAMING DETAILS

- MECHANICAL DRAWINGS
- M1.0 MAIN LEVEL MECHANICAL PLAN
- M2.0 LEGEND AND NOTES
- M3.0 MECHANICAL SPECIFICATIONS
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- PLUMBING DRAWINGS
- P.1.1 LOWER LEVEL SEWER PLAN
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- P.2.0 MAIN LEVEL HOT & COLD WATER PLAN
- P.2.1 PLUMBING FIXTURE SPECIFICATION
- P.2.2 PLUMBING AND WATER DIAGRAMS
- P3.0 SEWER LEGEND, NOTES, & REQUIREMENTS
- P4.0 PLUMBING SPECIFICATIONS
- P5.0 PLUMBING DETAILS
- ELECTRICAL DRAWINGS
- E1.0 LOWER LEVEL POWER & LIGHTING PLAN
- E1.1 MAIN LEVEL POWER PLAN
- E1.2 MAIN LEVEL LIGHTING PLAN
- E2.0 PANEL SCHEDULE & LOAD SUMMARY
- E3.0 ELECTRICAL SPECIFICATIONS
- E3.1 ELECTRICAL SPECIFICATIONS

GALVESTON COUNTY
 BEACH PAVILION
 CRYSTAL BEACH, TX 77650
 BE-Arc LLC Project No : C-17-003.01



BRAX EASTERWOOD
 DESIGN
 2228 AVENUE Q SUITE 2
 GALVESTON TEXAS 77550
 PHONE 409-354-8976
 EASTERNWOOD@BRAX.COM

ARCHITECT # 19864	S.F.A.
DATE	REVISION

CONTRACT DOCUMENTS
 DATE ISSUED:
 12/12/2017
 COPYRIGHT 2017



DATE	REVISION

CONSTRUCTION DOCUMENTS
DATE ISSUED: 12/22/2017

C1.03
PAVING & DRAINAGE PLAN

COUNTY APPROVAL:
SIGNATURE _____ DATE _____

PAVING LEGEND

FF	FINISHED GRADE
TP	TOP OF PAVEMENT
TC	TOP OF CURB
TD	TOP OF DRAIN
U	UTILITY
---	PAVEMENT SLOPE
▨	PROPOSED PAVING
→	EXISTING FLOW ARROW
↑	PROPOSED FLOW ARROW
---	EXISTING CONTOURS
---	PROPOSED CONTOURS

THE AREA OF THIS SURVEY IS IN TBM 48570 D14C MAP REVISED JAN. 4, 1984, DATE AND B.P. 18.

SURVEYOR NOTES:

- THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS, LATEST EDITION, AS ADOPTED BY THE GALVESTON COUNTY MANAGEMENT AGENCY.
- EXISTING CONTOURS AND ELEVATIONS ARE SHOWN IN FEET ABOVE MEAN SEA LEVEL AND MAY BE SUBJECT TO VARIATIONS FROM POWER LINES AS ESTABLISHED BY OSHA (CALL YOUR LOCAL ELECTRIC UTILITY COMPANY FOR INFORMATION).
- GRID BEARINGS BASED ON MONUMENTATION OF WEST GALVESTON BEACH, TEXAS, ARE SHOWN IN FEET ABOVE MEAN SEA LEVEL AND '88 DATUM AS TIED TO HIS MONUMENT.
- ALL ELEVATIONS ARE SHOWN IN FEET ABOVE MEAN SEA LEVEL.
- MARKETED WITHOUT BENEFIT OF A TITLE REPORT.

F. OVERHEAD LINES MAY EXIST ON THE PROPERTY. THEY HAVE NOT BEEN LOCATED BY THIS SURVEY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING THEM PRIOR TO BEGINNING ANY CONSTRUCTION. TEXAS LAW SECTION 132.001, CIVIL PENAL CODE, PROVIDES THAT ANY PERSON WHO KNOWS OR HAS REASON TO BELIEVE THAT OVERHEAD HIGH VOLTAGE LINES OR OTHER UTILITIES ARE LOCATED ON THE PROPERTY AND DOES NOT LOCATE THEM PRIOR TO CONSTRUCTION UNDER THIS PLAN, THIS LAW CARRIES BOTH CRIMINAL AND CIVIL LIABILITY.

3. EXISTING CONDITIONS

A. EXCESS EXCAVATED MATERIAL SHALL BE DISPOSED OF AS DIRECTED BY THE OWNER OR AS SPECIFIED IN THE DRAINAGE. SOIL SHALL NOT BE DEPOSITED GREATER THAN 4' DEEP WITHOUT PERMISSION FROM THE OWNER.

4. PERMITS

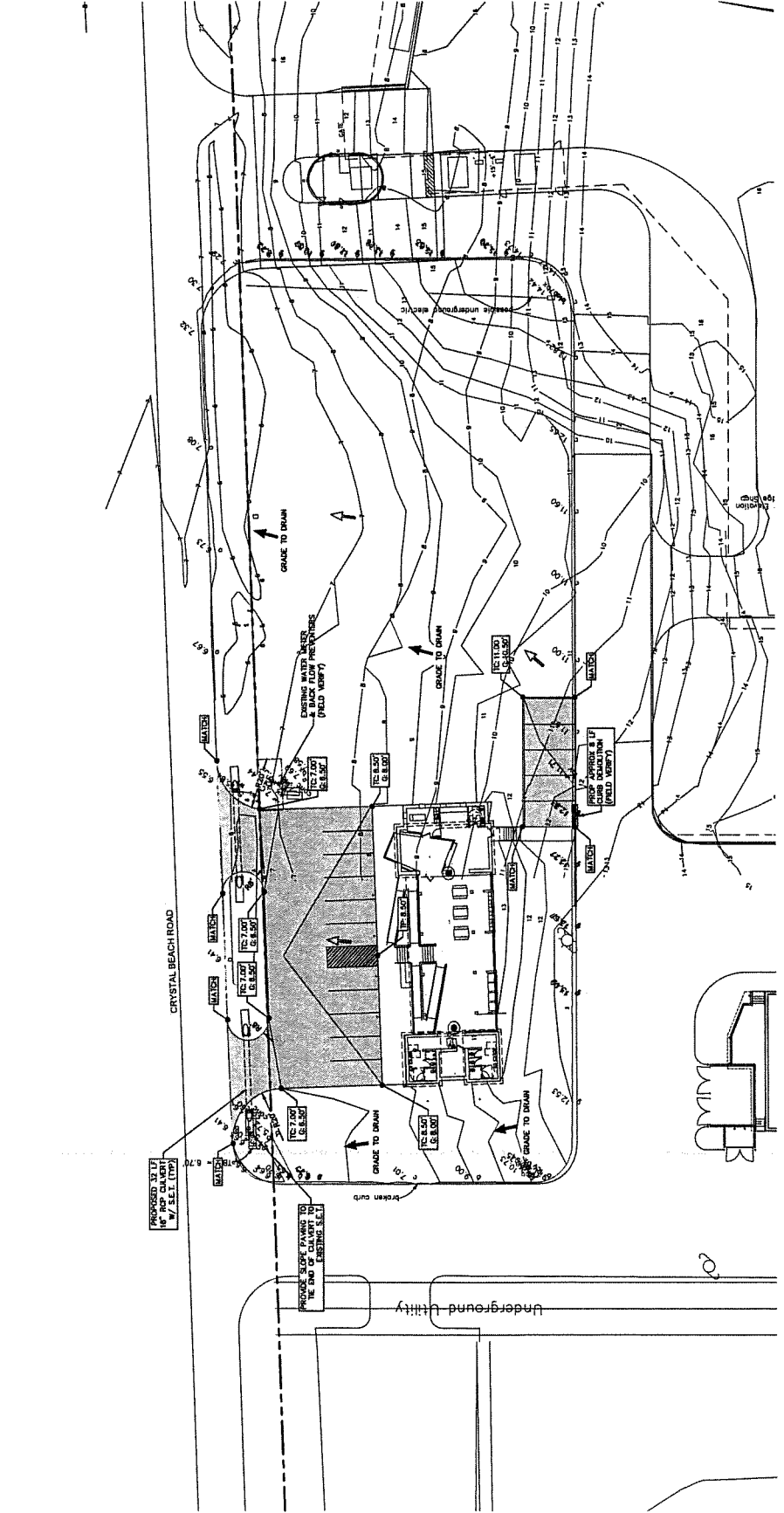
A. OWNER TO OBTAIN ALL PERMITS REQUIRED BY CITY, COUNTY, AND STATE AND LOCAL AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS PRIOR TO COMMENCEMENT OF WORK. REQUIRED PERMITS THAT CAN ONLY BE ISSUED TO CONTRACTOR SHALL BE OBTAINED AT HIS EXPENSE.

5. SAFETY

A. OBSERVE ALL FEDERAL, STATE, AND LOCAL SAFETY REGULATIONS WHEN CONDUCTING CONSTRUCTION. THE CONTRACTOR SHALL COMPLY WITH OSHA REGULATIONS AND STATE OF TEXAS LAWS CONCERNING EXCAVATION, TRENCHING, AND SHORING.

GENERAL NOTES:

- REFERENCE LINES AND GRADES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE REFERENCE POINTS AND REPLACE THEM IF LOST OR DAMAGED.
- EXISTING UTILITIES
 - VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.
 - PROTECT ALL EXISTING UTILITIES DURING CONSTRUCTION. UTILITIES HAVE BEEN LOCATED FROM RECORD DRAWINGS PROVIDED BY THE OWNER. INFORMATION OBTAINED FROM RECORD DRAWINGS THROUGHOUT THE PROJECT SHALL BE CORROBORATED FROM FIELD SURVEY AS THE CONTRACTOR'S RESPONSIBILITY ONLY. THE CONTRACTOR SHALL NOTIFY EACH UTILITY OWNER AND VERIFY ITS ACTUAL FIELD LOCATION PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETION OF UTILITY LOCATION WORK ON THESE DRAWINGS. ANY CONTRACTOR ACTIVITY IN THE VICINITY OF THE UTILITY, NOTED IN THE EXCAVATION SAFETY SYSTEM AT 1-800-848-7855 (SAFE-DIG) SHALL BE CONDUCTED IN THE VICINITY OF A UTILITY IN THE PRESENCE OF A PERSON FROM THE UTILITY COMPANY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES BEFORE COMMENCING WORK AND SHALL BE RESPONSIBLE FOR ANY DAMAGES TO UNDERGROUND UTILITIES.



CRYSTAL BEACH ROAD

Underground Utility





DATE	REVISION

CONSTRUCTION DOCUMENTS
 DATE ISSUED: 12/22/2017

C1.04
 SWFP PLAN

COUNTY APPROVAL: _____ DATE: _____
 SIGNATURE: _____

SCALE 1"=50'
 0 20 40 60 Feet

SWFP LEGEND

	REINFORCED FILTER FABRIC FENCE
	CONCRETE TRUCK WASH

THE AREA OF THIS SURVEY IS IN FIRM A8470 D124E MAP REVISED JULY 3, 1983, ZONE AHS BEF. 15.

CONTRACTOR NOTES:

- 1) THIS PROPERTY DOES LIE WITHIN THE 100 YEAR FLOOD HAZARD ZONE AS SHOWN BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY.
- 2) THIS PROPERTY IS SUBJECT TO ANY RESTRICTIONS OF POWER LINES AS ESTABLISHED BY OSHA (CALL YOUR POWER COMPANY).
- 3) POWER LINES ON MONUMENTATION OF WEST BEACH, GALVESTON COUNTY, TEXAS, SHALL BE MAINTAINED AT A MINIMUM OF 10 FEET FROM THE MONUMENTATION.
- 4) LEVEL MARKS AND DATUM AS TIED TO THIS MONUMENTATION SHALL BE MAINTAINED AS TIED TO THIS MONUMENTATION.
- 5) SURVEYED WITHOUT BENEFIT OF A TITLE REPORT.

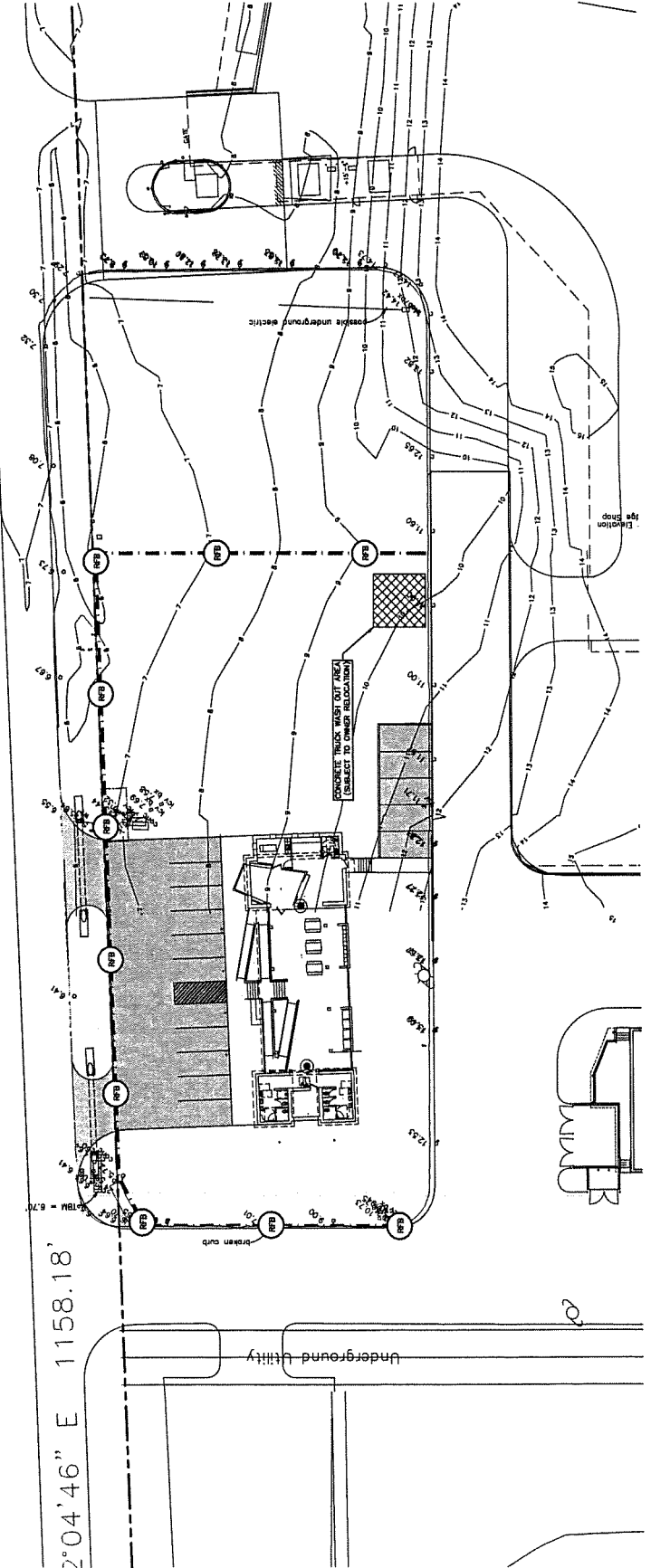
EXISTING CONDITIONS:

1. EXISTING CONDITIONS SHALL BE OBSERVED AS IS INDICATED BY THE SURVEY AND SHOWN ON THE DRAWINGS. SOIL SHALL NOT BE DEPOSITED ON THE PROPERTY WITHOUT PERMISSION FROM THE OWNER.
2. PERMITS: THE OWNER SHALL OBTAIN ALL PERMITS REQUIRED BY CITY, COUNTY, AND STATE AGENCIES PRIOR TO STARTING CONSTRUCTION OF UTILITY AND/OR CULTIVARS. THE CONTRACTOR SHALL VERIFY ALL PERMITS THAT ALL CONSTRUCTION PERMITS HAVE BEEN OBTAINED AND SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. PERMITS MAY ONLY BE ISSUED TO CONTRACTOR SHALL BE OBTAINED AT HIS EXPENSE.
3. SAFETY: THE CONTRACTOR SHALL OBTAIN ALL FEDERAL, STATE, AND LOCAL SAFETY REGULATIONS WHEN WORKING IN OR NEAR PUBLIC ROAD RIGHT-OF-WAYS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND SHORING LAWS CONCERNING DECLARATION, TRUCKING, AND SHORING.

GENERAL NOTES:

1. REFERENCE LINES AND GRADES: IT SHALL BE THE OWNER'S RESPONSIBILITY TO MAINTAIN THE REFERENCE POINTS AND REFERENCE LINES AT ALL TIMES TO AVOID DAMAGE.
2. EXISTING UTILITIES: THE CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION OF PROPOSED FACILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND MAINTENANCE OF ALL UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND MAINTENANCE OF ALL UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND MAINTENANCE OF ALL UTILITIES.
3. THE TYPE, SIZE, LOCATION AND OWNERSHIP OF EXISTING UTILITIES HAVE BEEN OBTAINED FROM THESE SOURCES TO BE THE MOST RELIABLE AVAILABLE AND IS PROVIDED FOR THE CONTRACTOR'S INFORMATION ONLY. THE CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. NO WARRANTY IS MADE AS TO THE ACCURACY OF THE INFORMATION PROVIDED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND MAINTENANCE OF ALL UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND MAINTENANCE OF ALL UTILITIES.
4. AT LEAST 30 DAYS PRIOR TO COMMENCING ANY EXCAVATION OR OTHER CONSTRUCTION ACTIVITY UNDER A FEDERAL, STATE, OR LOCAL PERMIT, THE CONTRACTOR SHALL NOTIFY THE UTILITY OWNERS AND THE CITY OF GALVESTON, TEXAS, OF THE LOCATION AND ELEVATION OF ALL UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND MAINTENANCE OF ALL UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND MAINTENANCE OF ALL UTILITIES.
5. NO EXCAVATING OR OTHER CONSTRUCTION ACTIVITY SHALL BE CONDUCTED IN THE VICINITY OF EXISTING UTILITIES UNLESS THE CONTRACTOR HAS OBTAINED THE NECESSARY PERMITS AND SHORING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND MAINTENANCE OF ALL UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND MAINTENANCE OF ALL UTILITIES.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND MAINTENANCE OF ALL UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND MAINTENANCE OF ALL UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND MAINTENANCE OF ALL UTILITIES.

CRYSTAL BEACH ROAD
 (60' R.O.W.)





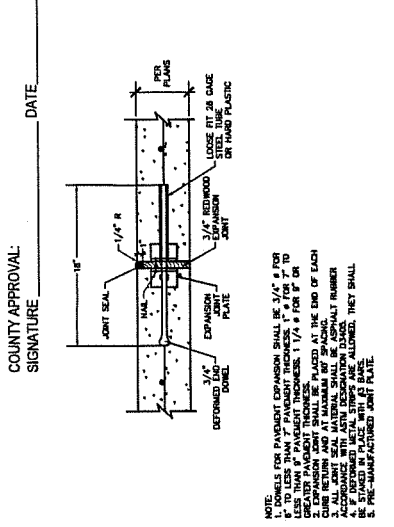
DATE: REVISION:

CONSTRUCTION DOCUMENTS

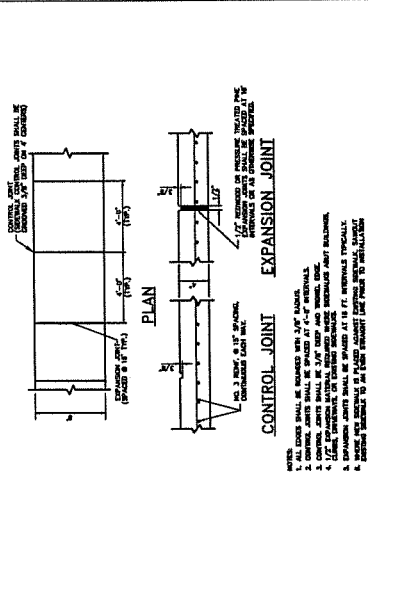
DATE ISSUED:
 12/22/2017

C2.01

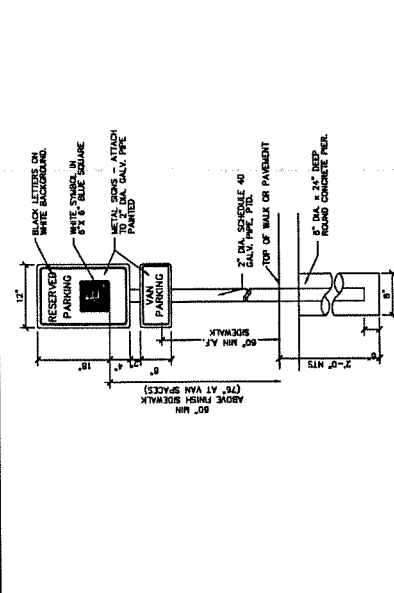
PAVING DETAILS



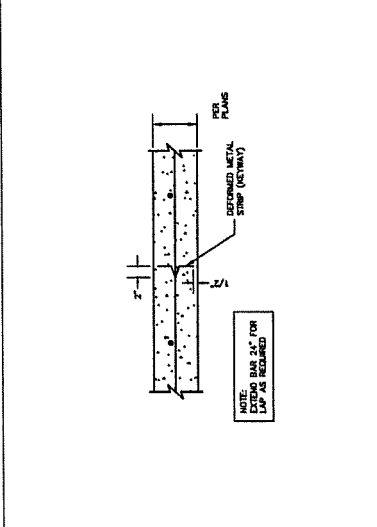
EXPANSION JOINT



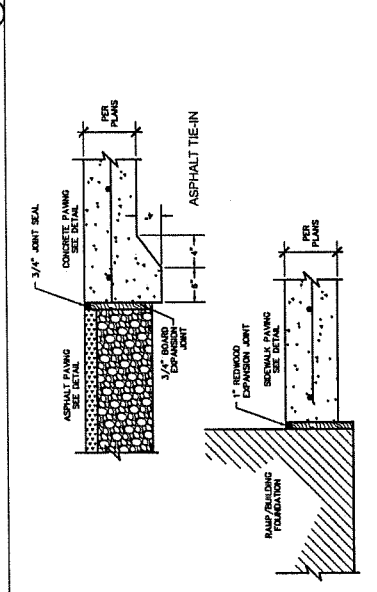
SIDEWALK



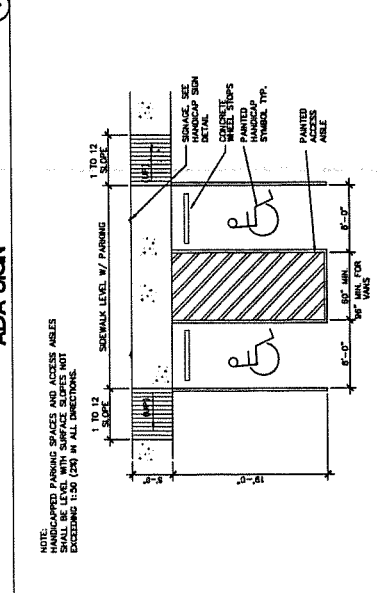
ADA SIGN



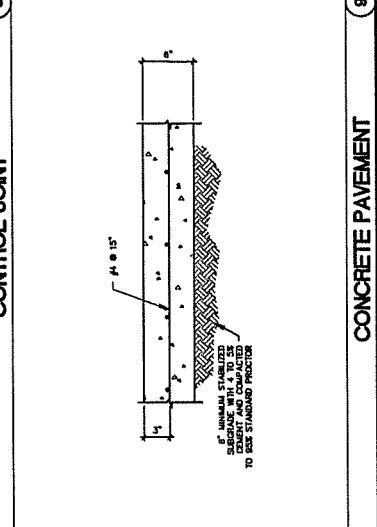
CONTROL JOINT



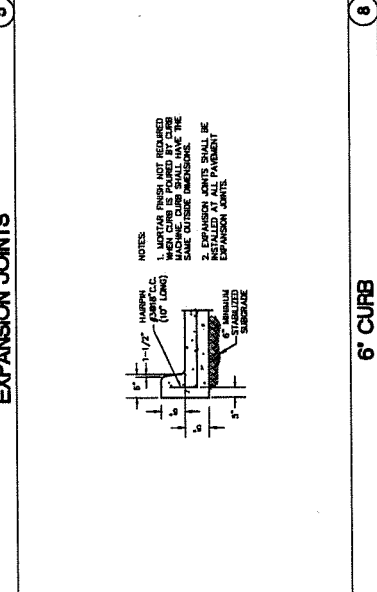
EXPANSION JOINTS



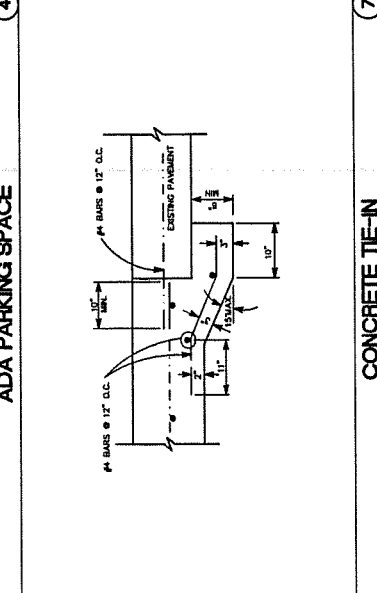
ADA PARKING SPACE



CONCRETE PAVEMENT



6' CURB



CONCRETE TIE-IN

COUNTY APPROVAL: _____ DATE _____
 SIGNATURE _____

GALVESTON COUNTY
 BEACH PAVILION
 CRYSTAL BEACH, TX 77650
 Shelmark Project No : 17-217



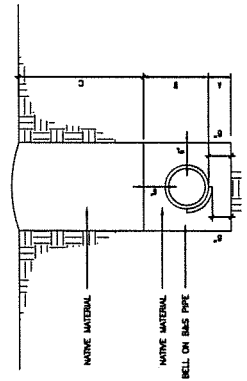
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 REVISION: _____

CONSTRUCTION DOCUMENTS

DATE ISSUED: 12/22/2017

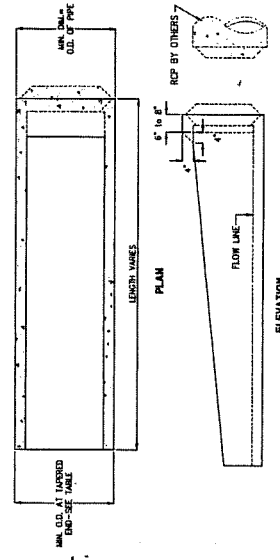
C2.02

STORM SEWER DETAILS

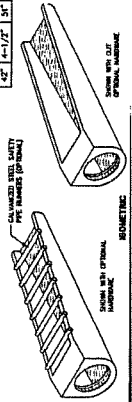
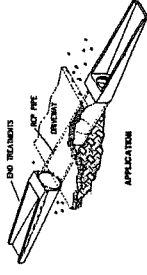


- *A* COURSE STABILIZED SAND (1 1/2 SACS/TON) (UNDER PAVEMENT OR LESS THAN 1" FROM PAVEMENT EDGE) PLACED SAME WAY AS PIPE & LAD.
- *B* COURSE STABILIZED SAND (1 1/2 SACS/TON) (UNDER PAVEMENT OR LESS THAN 1" FROM PAVEMENT EDGE) PLACED SAME WAY AS PIPE & LAD.
- *C* COURSE STABILIZED SAND (1 1/2 SACS/TON) (UNDER PAVEMENT OR LESS THAN 1" FROM PAVEMENT EDGE) PLACED SAME WAY AS PIPE & LAD.
- *D* ON SITE SOIL BACKFILL TO BE PLACED IN 8" LAYERS & COMPACTED TO 95% MAX DRY DENSITY.

NOTES:
 ALL EXTERIOR JOINTS SHALL BE WRAPPED WITH LITCHGRAB TFC-WRAP BY GULF STATES ASPHALT CO., INC.



PIPE SIZE	MIN. COVER	MIN. TRENCH WIDTH	MIN. TRENCH LENGTH	MIN. TRENCH DEPTH	MIN. TRENCH WIDTH AT JOINT
18"	2'-0"	3'-0"	4'-0"	3'-0"	3'-0"
24"	2'-0"	3'-0"	4'-0"	3'-0"	3'-0"
30"	2'-0"	3'-0"	4'-0"	3'-0"	3'-0"
36"	2'-0"	3'-0"	4'-0"	3'-0"	3'-0"
42"	2'-0"	3'-0"	4'-0"	3'-0"	3'-0"
48"	2'-0"	3'-0"	4'-0"	3'-0"	3'-0"
54"	2'-0"	3'-0"	4'-0"	3'-0"	3'-0"
60"	2'-0"	3'-0"	4'-0"	3'-0"	3'-0"
66"	2'-0"	3'-0"	4'-0"	3'-0"	3'-0"
72"	2'-0"	3'-0"	4'-0"	3'-0"	3'-0"
78"	2'-0"	3'-0"	4'-0"	3'-0"	3'-0"
84"	2'-0"	3'-0"	4'-0"	3'-0"	3'-0"
90"	2'-0"	3'-0"	4'-0"	3'-0"	3'-0"
96"	2'-0"	3'-0"	4'-0"	3'-0"	3'-0"
102"	2'-0"	3'-0"	4'-0"	3'-0"	3'-0"
108"	2'-0"	3'-0"	4'-0"	3'-0"	3'-0"
114"	2'-0"	3'-0"	4'-0"	3'-0"	3'-0"
120"	2'-0"	3'-0"	4'-0"	3'-0"	3'-0"



1 SAFETY END TREATMENT
 2 RCP TRENCH EMBEDMENT AND BACKFILL

© Pava 2002

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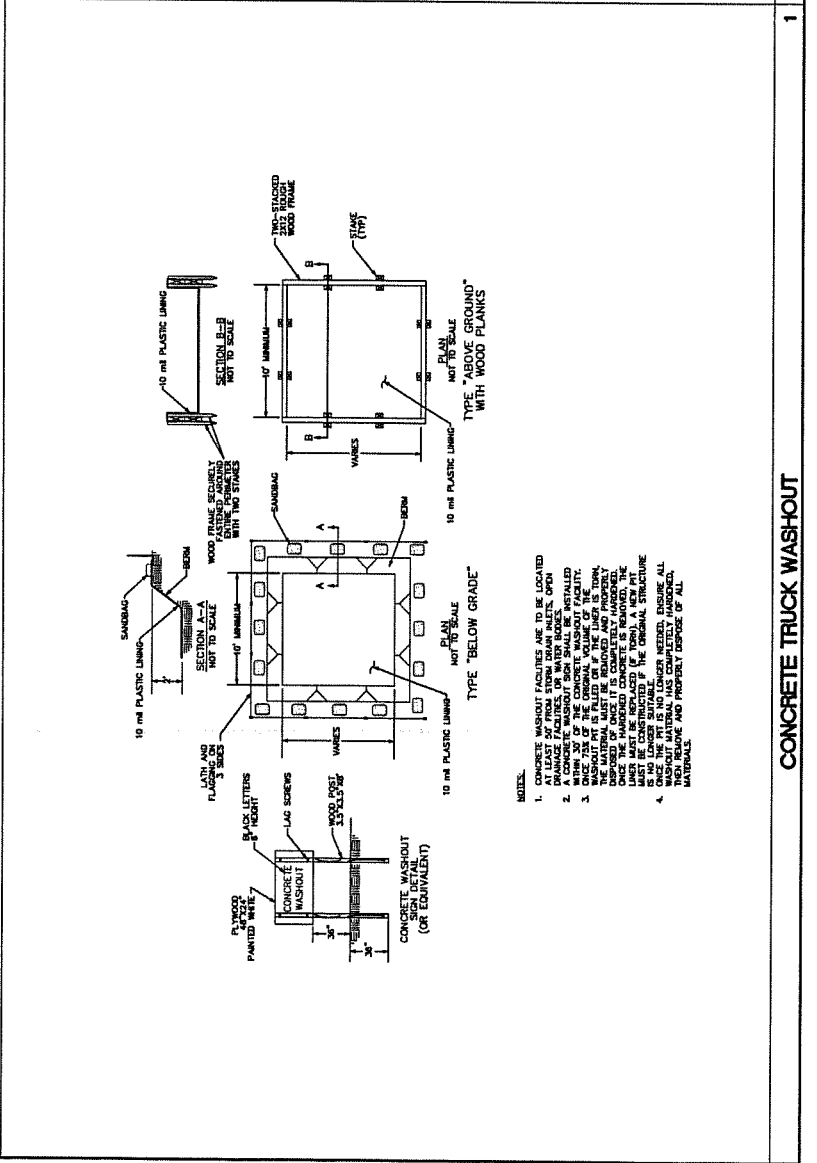
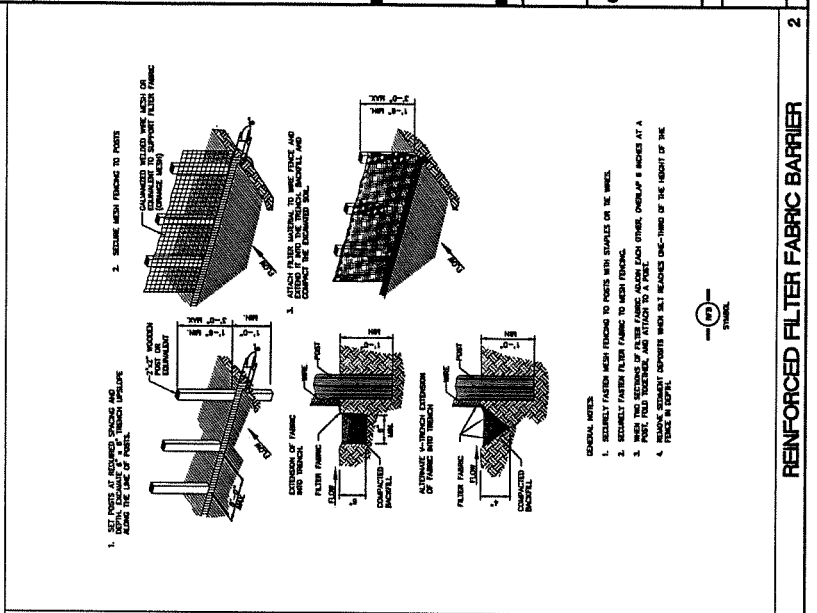
GALVESTON COUNTY
 BEACH PAVILION
 CRYSTAL BEACH, TX 77650
 Shelmark Project No : 17-217



DATE	REVISION

CONSTRUCTION DOCUMENTS
 DATE ISSUED: 12/22/2017

C2.03
 SHPP DETAILS


















REINFORCED FILTER FABRIC BARRIER

CONCRETE TRUCK WASHOUT

COUNTY APPROVAL _____ DATE _____
SIGNATURE _____

SYMBOLS & LEGENDS

 <p>Section Mark Symbol Indicates Detail Number and Sheet Number</p>	 <p>Detail Symbol Indicates detail number and sheet number where it is located.</p>	 <p>Elevator Elevator Symbol Indicates elevator number and sheet number where it is located.</p>	 <p>Interior Elevation Symbol Indicates interior elevation number and sheet number where it is located.</p>	 <p>Note Symbol Indicates numbered sheet specific notes by symbol.</p>	 <p>Wall Type Symbol Indicates particular configuration of a wall. Refer to wall type sheet(s).</p>	 <p>Star Direction Symbol Indicates the direction of the stair, up or down.</p>	 <p>Slope Arrow Symbol Indicates the location of a particular floor level plane.</p>	 <p>Roof Slope Arrow Indicates the roof slope direction.</p>	 <p>Elevation Symbol Indicates a building level elevation.</p>	 <p>Ceiling Elevation Mark Symbol Indicates the ceiling elevation. Refer to Related Ceiling Plans.</p>	 <p>Room Label Symbol: Refer to Room Finish Schedule.</p>	 <p>Door Symbol Indicates door number. Refer to Door Schedule.</p>	 <p>Window Symbol Indicates window number. Refer to Window Schedule.</p>	 <p>Accessory Symbol Indicates the room's accessories. Refer to Finish Schedule.</p>
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ABBREVIATIONS

A And	FA Fire Alarm	Prc. Precast
∅ Angle	FB Full Beam	Plm. Plastic Laminade
∅ Clockwise	Fa Foundation	Phstr Phasitor
∅ Degrees	FE Fire Extinguisher	Phywood Plywood
∅ Diameter	FEE Fire Extinguisher Cabinet	Pr. Painted
∅ Plus or Minus	FEE Fire Extinguisher Cabinet	PTD Paper Trawl Dispenser
# Pound or Number	FHC Fire Hose Cabinet	PTDR Paper Trawl Dispenser
Annot. Annotate	FL Finish	R Paper Trawl Dispenser
A.A. Area Area	Fl. Flash	Par Parition
A.A. Area Area	Fl. Flash	PTB Paper Trawl Receipts
A.A. Area Area	Fl. Flash	R Paper
A.A. Area Area	Fl. Flash	Rd. Radiant
A.A. Area Area	Fl. Flash	Rd. Radiant
A.A. Area Area	Fl. Flash	Rd. Radiant
A.A. Area Area	Fl. Flash	Rd. Radiant
A.A. Area Area	Fl. Flash	Rd. Radiant

BE-ARC LLC Project No.: C-17-003.01
CRYSTAL BEACH, TX 77650
GALVESTON COUNTY



BRAX EASTWOOD
DESIGN
2728 AVENUE Q SUITE 2
GALVESTON TEXAS 77550
PHONE 409-554-8978
EASTWOOD@BRAX.COM

ARCHITECT / 19994
SEAL
DATE: _____ REVISION: _____

CONTRACT DOCUMENTS

DATE ISSUED:
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GO.1

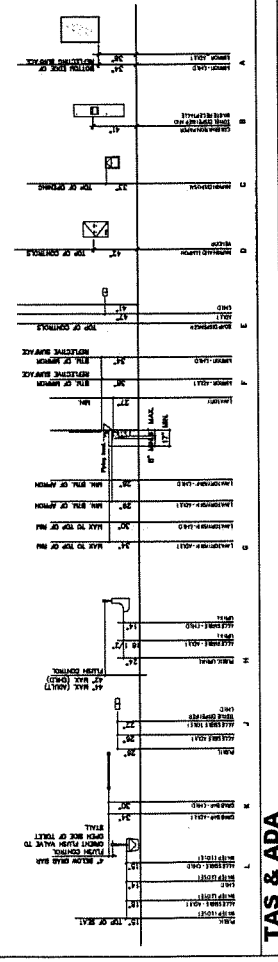
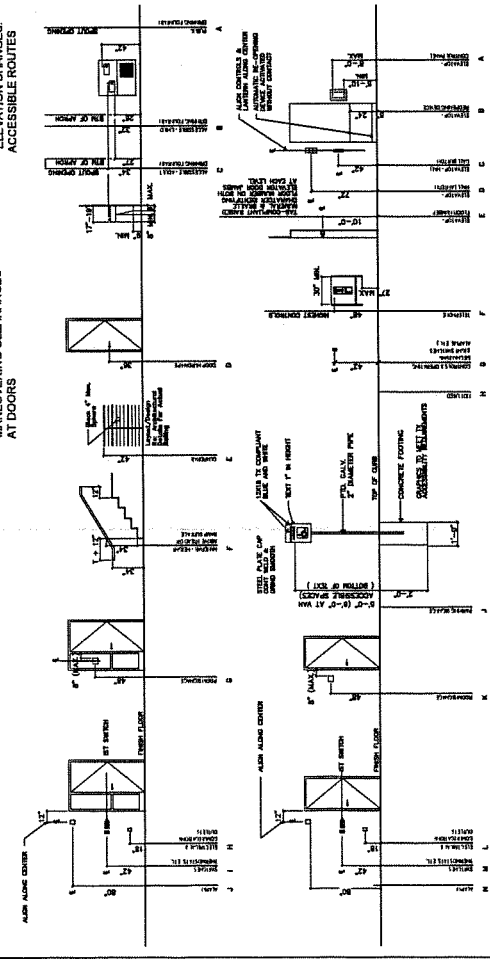
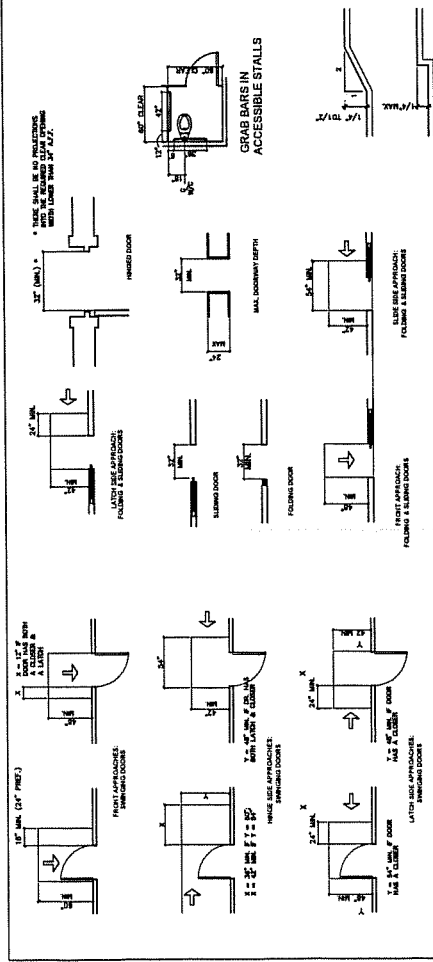
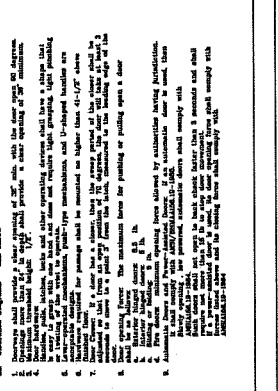
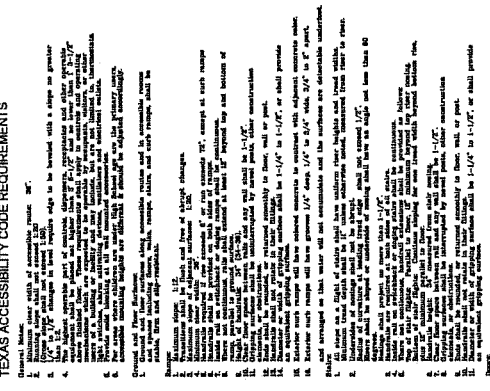
1 GENERAL NOTES
NTS

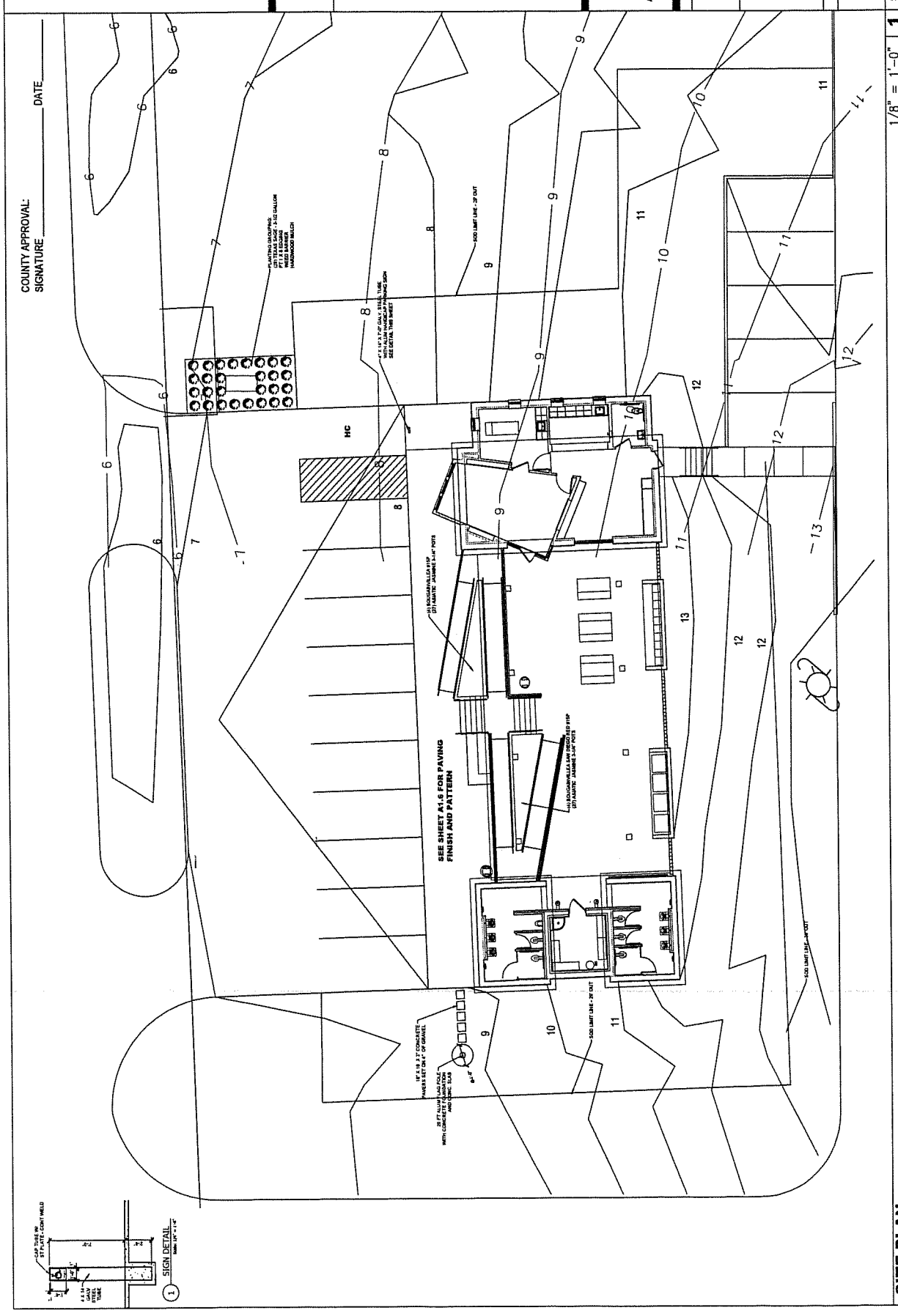
COUNTY APPROVAL: _____ DATE: _____
 SIGNATURE: _____



TEXAS ACCESSIBILITY CODE REQUIREMENTS

General Notes:
 1. All new construction shall comply with the Texas Accessibility Code (TAC) 2010 Edition, as amended.
 2. The Texas Accessibility Code (TAC) 2010 Edition, as amended, is available at: www.tacaccessibility.com
 3. The Texas Accessibility Code (TAC) 2010 Edition, as amended, is available at: www.tacaccessibility.com
 4. The Texas Accessibility Code (TAC) 2010 Edition, as amended, is available at: www.tacaccessibility.com
 5. The Texas Accessibility Code (TAC) 2010 Edition, as amended, is available at: www.tacaccessibility.com
 6. The Texas Accessibility Code (TAC) 2010 Edition, as amended, is available at: www.tacaccessibility.com
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**GALVESTON COUNTY
BEACH PAVILION
CRYSTAL BEACH, TX 77650**

BE-Arc LLC Project No : C-17-003.01



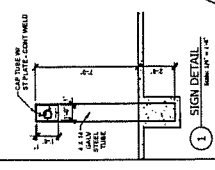
**BRAX EASTERWOOD
DESIGN**
2728 AVENUE D SUITE 2
GALVESTON TEXAS 77550
PHONE: 409-354-8876
EASTENWOOD@BEAUX.COM

ARCHITECT # 19894
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A0.1

SITE PLAN 1/8" = 1'-0" **1**



1 SIGN DETAIL
Scale: 1/4" = 1'-0"

1/4" x 1/2" CONCRETE
PIERS SET ON 4" OF GRAVEL

2'-0" TALL SIGN POST
WITH CONCRETE BASE
AND SIGN SLAB

SEE SHEET A1.6 FOR PAVING
FINISH AND PATTERN

1/4" DIA. WALLS PER
20' MINUTE JUNCTION PER
SHEET A1.6

1/4" DIA. WALLS PER
20' MINUTE JUNCTION PER
SHEET A1.6

1/4" DIA. WALLS PER
20' MINUTE JUNCTION PER
SHEET A1.6

1/4" DIA. WALLS PER
20' MINUTE JUNCTION PER
SHEET A1.6

1/4" DIA. WALLS PER
20' MINUTE JUNCTION PER
SHEET A1.6

100' LIMIT LINE - 2'-0"

100' LIMIT LINE - 2'-0"

100' LIMIT LINE - 2'-0"

100' LIMIT LINE - 2'-0"

100' LIMIT LINE - 2'-0"

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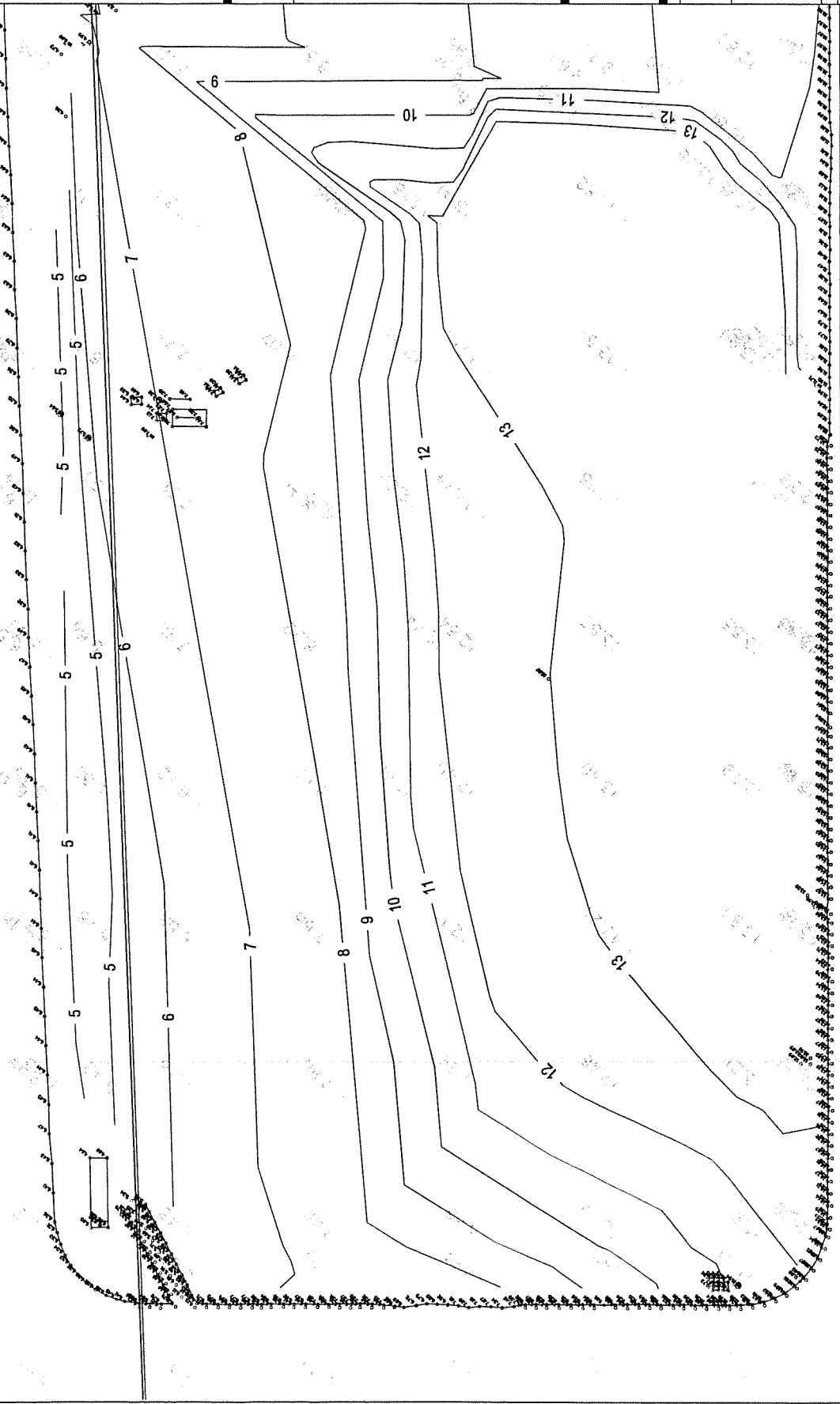
100' LIMIT LINE - 2'-0"

100' LIMIT LINE - 2'-0"

100' LIMIT LINE - 2'-0"

CRYSTAL BEACH ROAD (60' R.O.W.)

COUNTY APPROVAL:
SIGNATURE _____ DATE _____



**GALVESTON COUNTY
BEACH PAVILION
CRYSTAL BEACH, TX 77650**

BE-Arc LLC Project No : C-17-00301



BRAX EASTERWOOD
DESIGN

2728 AVENUE Q SUITE 2
GALVESTON TEXAS 77550
PHONE 409-354-8976
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ARCHITECT # 19864

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A0.2

EXISTING CONTOURS

EXISTING CONTOURS

1/8" = 1'-0" 1

COUNTY APPROVAL: _____ DATE _____
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BRAX EASTERWOOD
 ARCHITECT # 19894
 2728 AVENUE Q SUITE 2
 GALVESTON TEXAS 77550
 PHONE 409-554-8976
 EASTWOOD@BRAX.COM



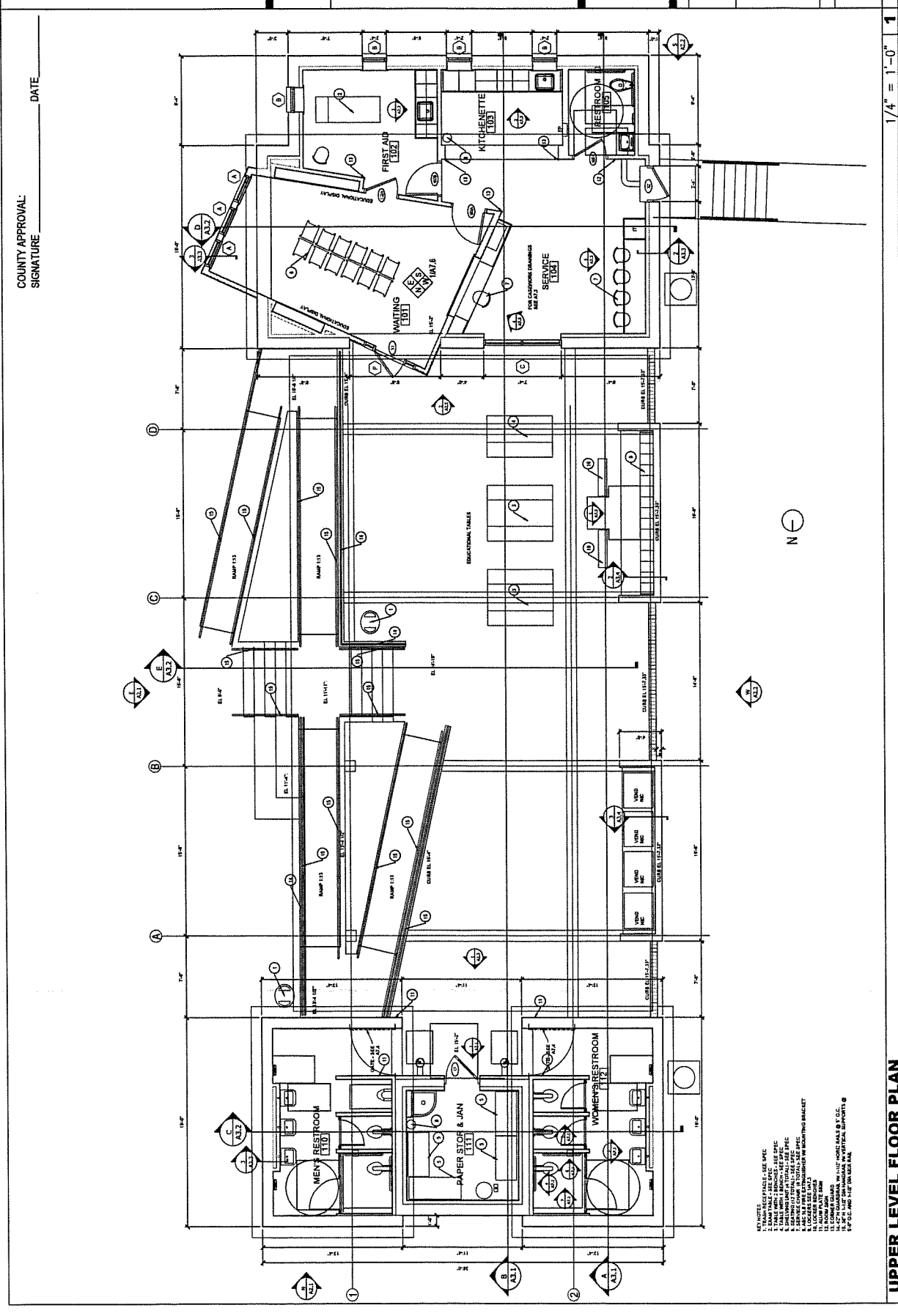
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 DESIGN
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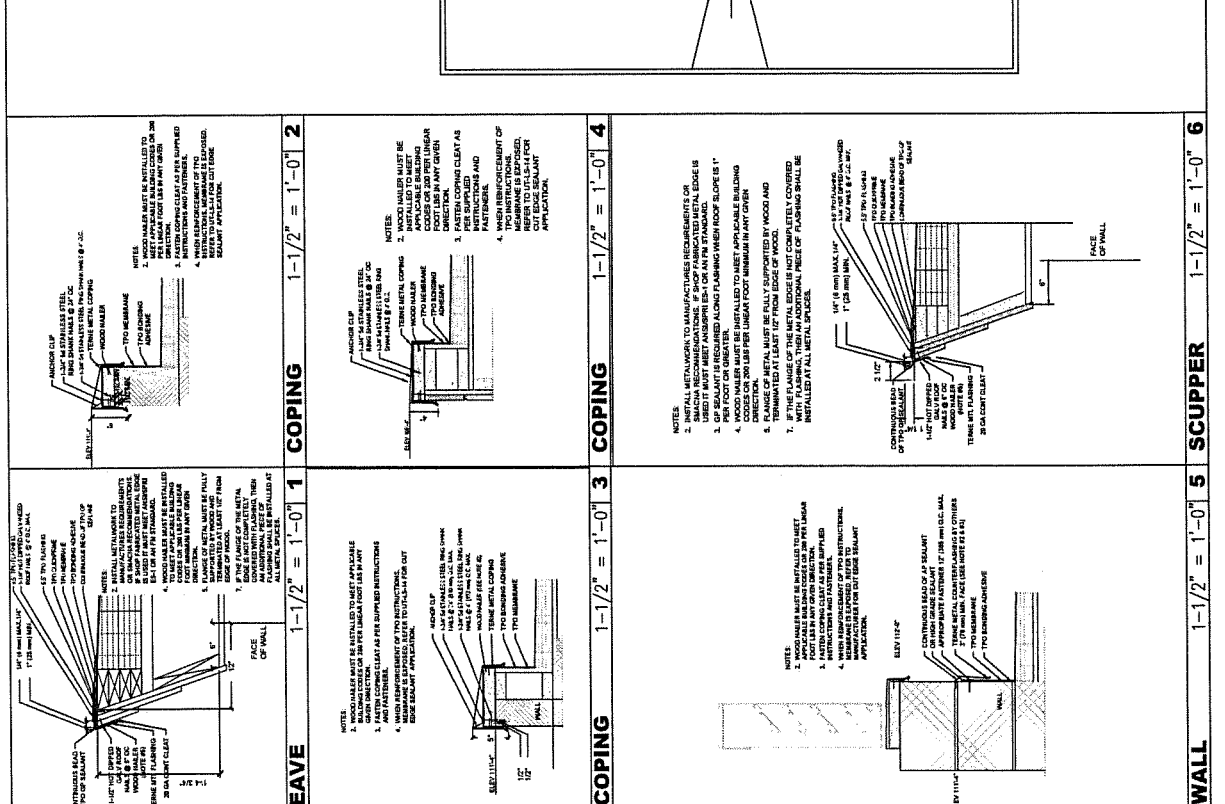
A1.1
 FLOOR PLAN



- KEY NOTES**
1. EXAMINER SHALL SEE HERE
 2. EXAMINER SHALL SEE HERE
 3. EXAMINER SHALL SEE HERE
 4. EXAMINER SHALL SEE HERE
 5. EXAMINER SHALL SEE HERE
 6. EXAMINER SHALL SEE HERE
 7. EXAMINER SHALL SEE HERE
 8. EXAMINER SHALL SEE HERE
 9. EXAMINER SHALL SEE HERE
 10. EXAMINER SHALL SEE HERE
 11. EXAMINER SHALL SEE HERE
 12. EXAMINER SHALL SEE HERE
 13. EXAMINER SHALL SEE HERE
 14. EXAMINER SHALL SEE HERE
 15. EXAMINER SHALL SEE HERE
 16. EXAMINER SHALL SEE HERE
 17. EXAMINER SHALL SEE HERE
 18. EXAMINER SHALL SEE HERE
 19. EXAMINER SHALL SEE HERE
 20. EXAMINER SHALL SEE HERE

1/4" = 1'-0" **1** UPPER LEVEL FLOOR PLAN

COUNTY APPROVAL
SIGNATURE _____ DATE _____



EAVE 1'-1/2" = 1'-0" **1**

COPING 1'-1/2" = 1'-0" **2**

COPING 1'-1/2" = 1'-0" **3**

COPING 1'-1/2" = 1'-0" **4**

WALL 1'-1/2" = 1'-0" **5**

SCUPPER 1'-1/2" = 1'-0" **6**

GALVESTON COUNTY
BEACH PAVILION
CRYSTAL BEACH, TX 77650

BE-Arc LLC Project No : C-17-003 01

BRAX EASTERWOOD
DESIGN
2728 AVENUE Q SUITE 2
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PHONE 409-354-8976
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ARCHITECT # 19894
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A1.3

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 DESIGN

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 PHONE 409-354-8876
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ARCHITECT F 10864

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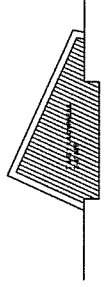
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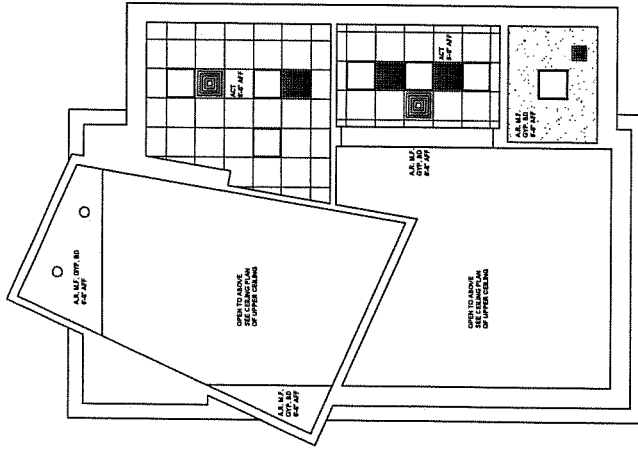
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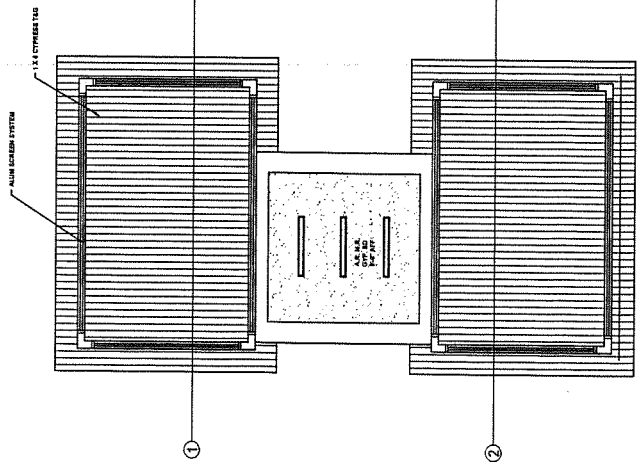
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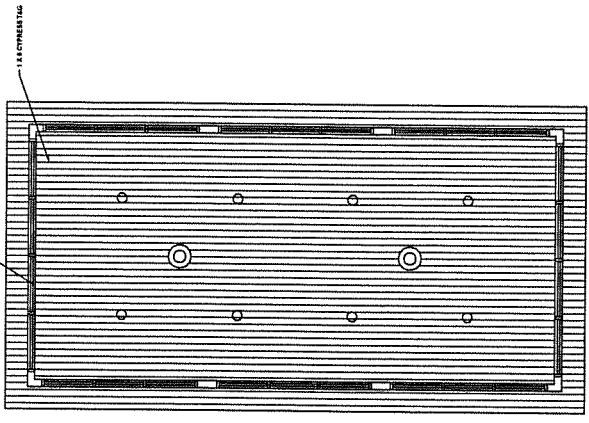
EXTERIOR CEILING UNDER BAY WINDOW



LOWER CEILING PLAN



REFLECTED CEILING PLAN



UPPER CEILING PLAN

1/4" = 1'-0" 1

COUNTY APPROVAL:
SIGNATURE _____ DATE _____

**GALVESTON COUNTY
BEACH PAVILION
CRYSTAL BEACH, TX 77650**
BE-Arc LLC Project No : C-17-00301

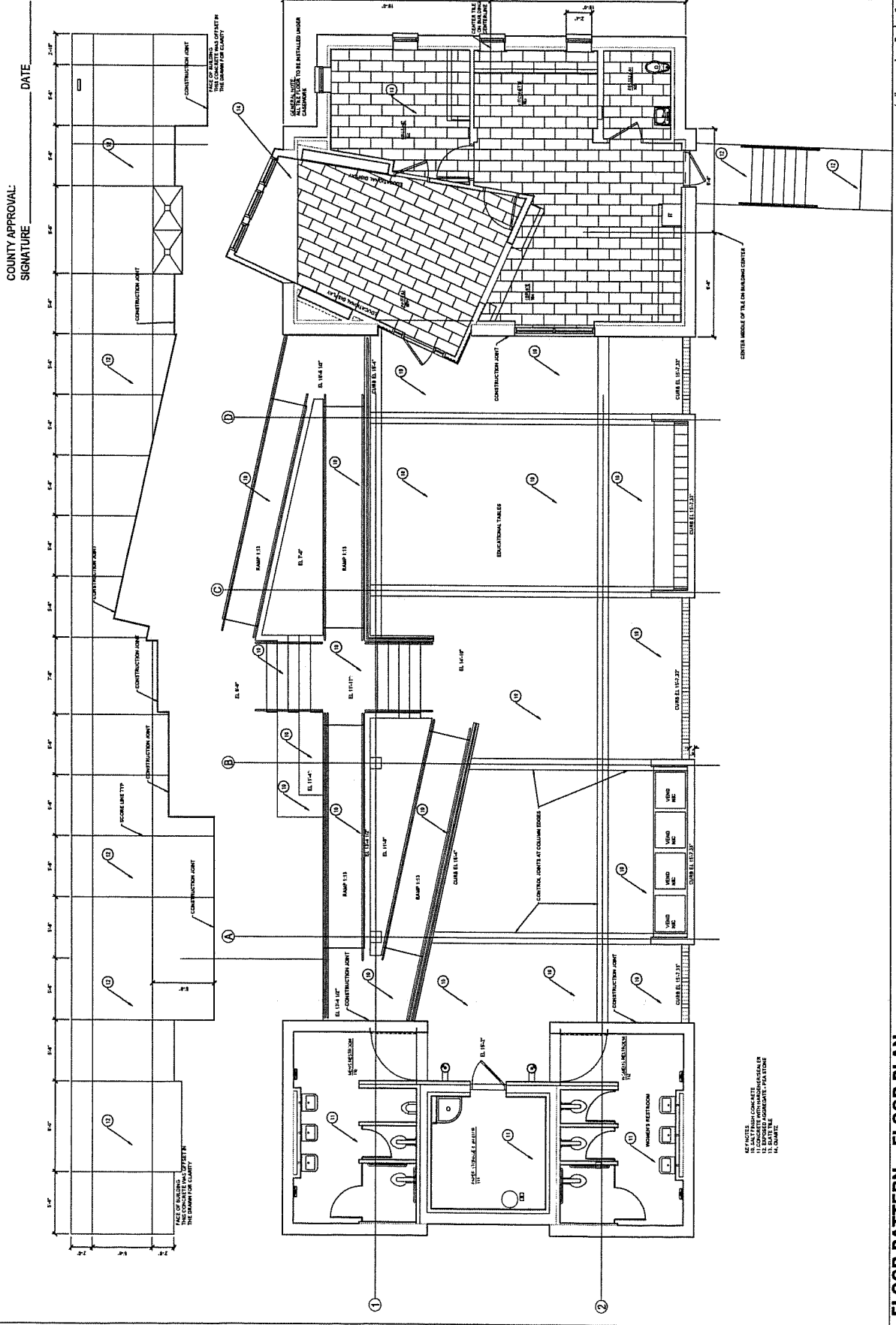


BRAX EASTERWOOD
DESIGN
2728 AVENUE O SUITE 2
GALVESTON TEXAS 77550
PHONE: 409-334-8976
EASTERNWOOD@GEMAK.COM

ARCHITECT # 19884
SEA
DATE REVISION

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A1.6
FLOOR PLAN



KEY NOTES:
1. ALL FINISHES TO BE INSTALLED UNDER
THE CONTRACTOR'S RESPONSIBILITY
2. ALL FINISHES TO BE INSTALLED UNDER
THE CONTRACTOR'S RESPONSIBILITY
3. SEE NOTES FOR FINISHES
4. QUOTE

FLOOR PATTERN - FLOOR PLAN 1/4" = 1'-0" 1

COUNTY APPROVAL:
SIGNATURE _____ DATE _____

GALVESTON COUNTY
BEACH PAVILION
CRYSTAL BEACH, TX 77650

BE-Ac LLC Project No : C-17-003.01

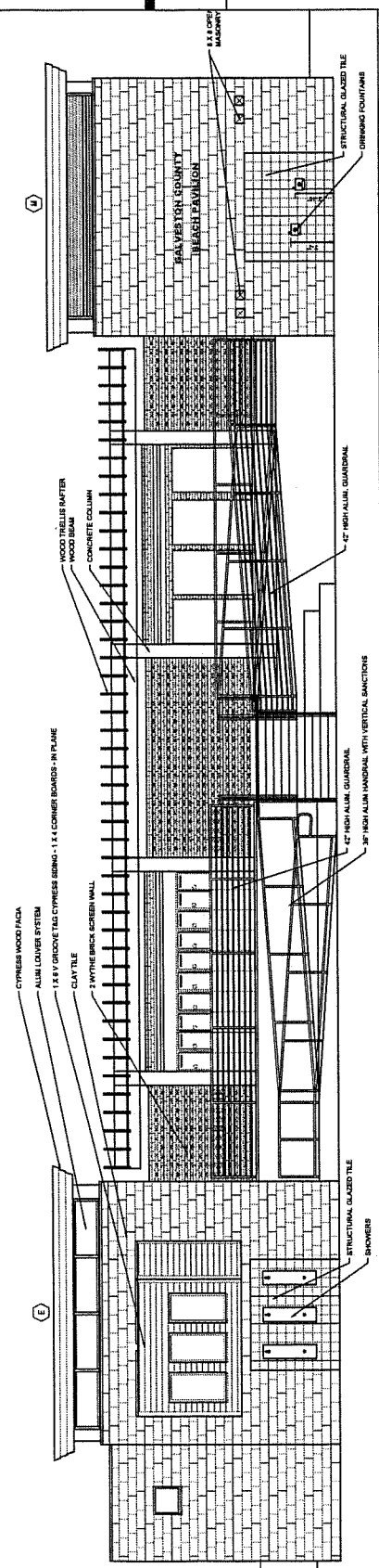


BRAX EASTWOOD
DESIGN
2228 AVENUE Q SUITE 2
GALVESTON TEXAS 77550
PHONE 409-354-8976
EASTWOOD@BEA.COM

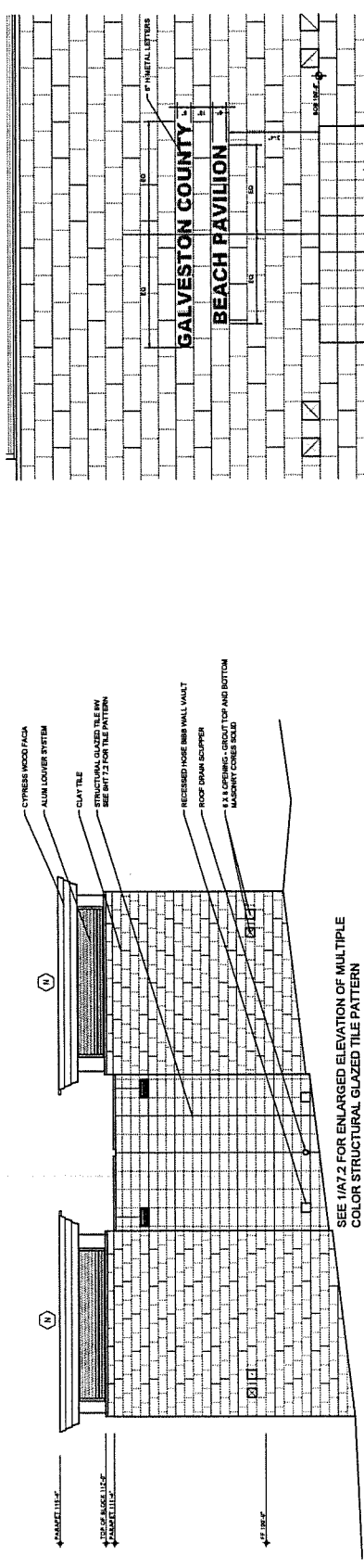
ARCHITECT / 15684
SCALE
DATE REVISION

CONTRACT DOCUMENTS
DATE ISSUED: 12/12/2017
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A2.1
ELEVATIONS



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



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

1 EXTERIOR SIGNAGE
SCALE: 1/2" = 1'-0"

COUNTY APPROVAL:
SIGNATURE _____ DATE _____

BRAE EASTERWOOD
DESIGN
2728 AVENUE Q SUITE 2
GALVESTON TEXAS 77550
PHONE 409-354-8976
EASTHERWOOD@BRAEWA.COM

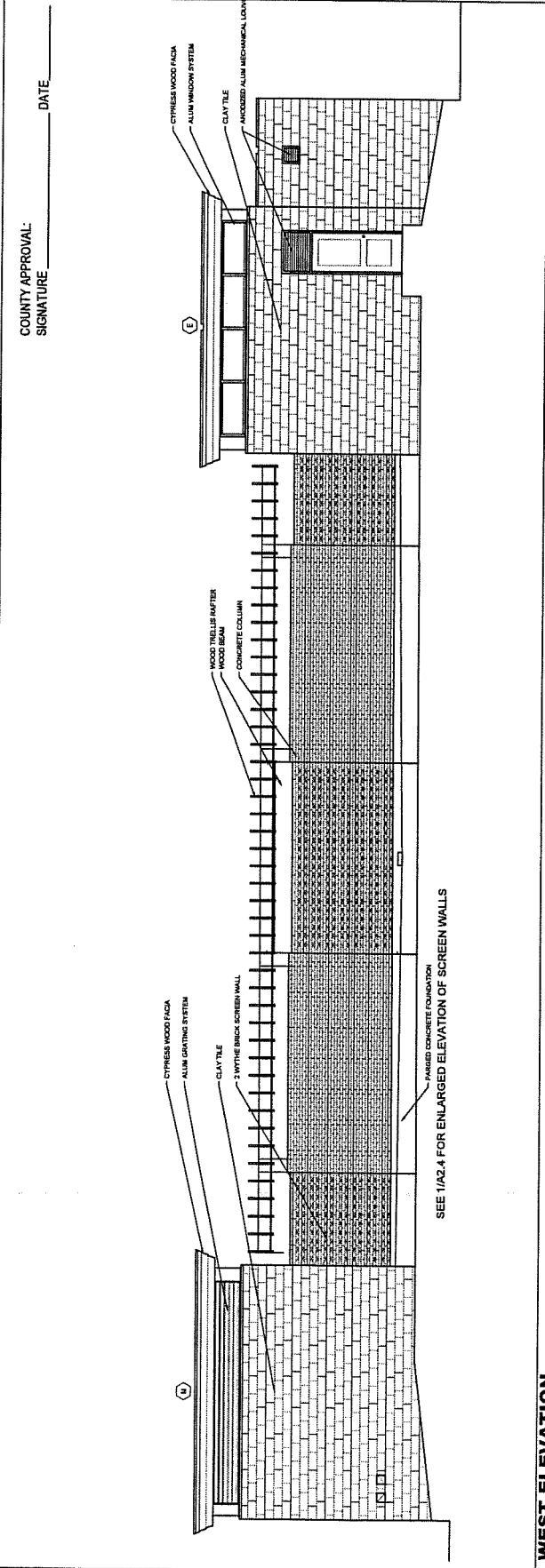


BRAE EASTERWOOD
DESIGN
2728 AVENUE Q SUITE 2
GALVESTON TEXAS 77550
PHONE 409-354-8976
EASTHERWOOD@BRAEWA.COM

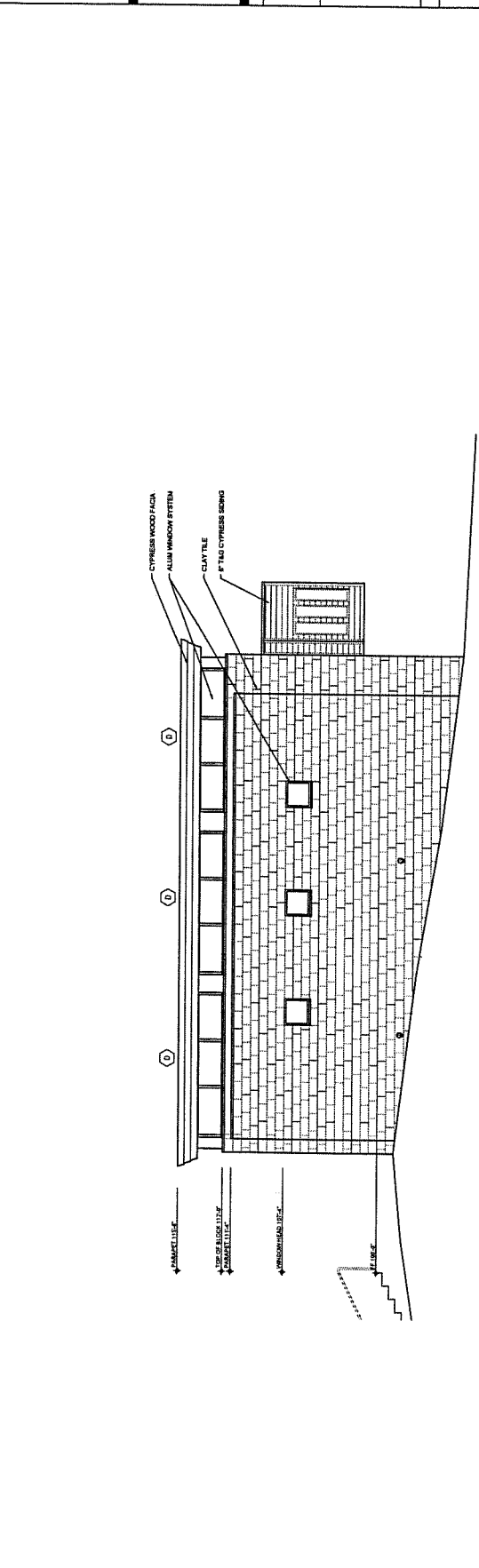
ARCHITECT # 19894
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A2.2
ELEVATIONS



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



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

SEE 1/A2.4 FOR ENLARGED ELEVATION OF SCREEN WALLS

COUNTY APPROVAL: _____ DATE _____
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**GALVESTON COUNTY
 BEACH PAVILION
 CRYSTAL BEACH, TX 77650**
 BE-Arc LLC Project No : C-17-003.01



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 2728 AVENUE Q SUITE 2
 GALVESTON, TEXAS 77550
 PHONE 409-554-8978
 EASTERWOOD@BEAM.COM

ARCHITECT / 1986#

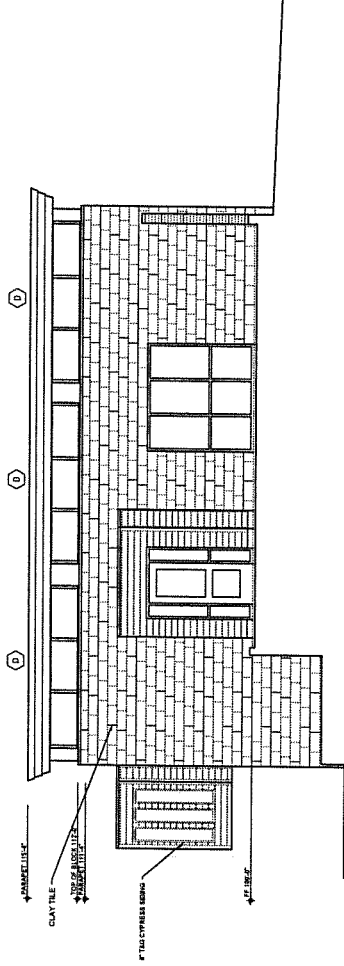
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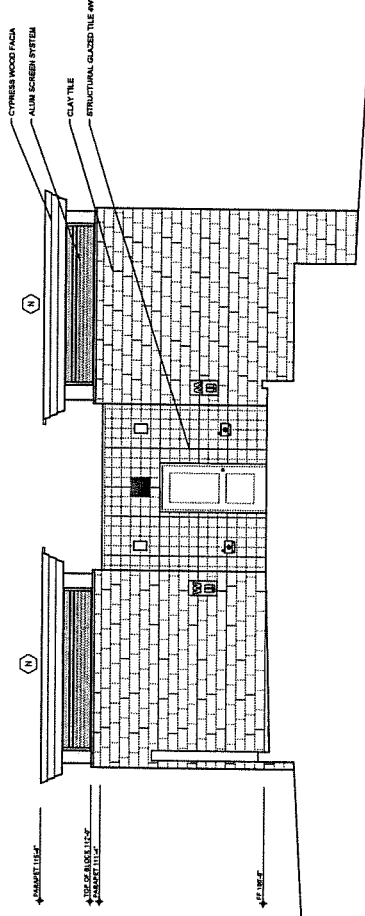
A2.3

ELEVATIONS



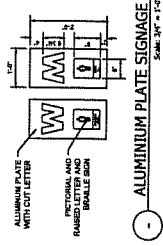
NORTH ELEVATION OF VISITOR'S CENTER

1/4" = 1'-0" 2



SOUTH ELEVATION OF RESTROOM

1/4" = 1'-0" 1



COUNTY APPROVAL:
SIGNATURE _____ DATE _____

**GALVESTON COUNTY
BEACH PAVILION
CRYSTAL BEACH, TX 77650**

BE-Arc LLC Project No : C-17-00301



**BRAX EASTERWOOD
DESIGN**

2728 AVENUE G SUITE 2
GALVESTON TEXAS 77550
PHONE 409-554-8976
EASTWOOD@BEA.COM

ARCHITECT / 1864

SEAL

DATE REVISION

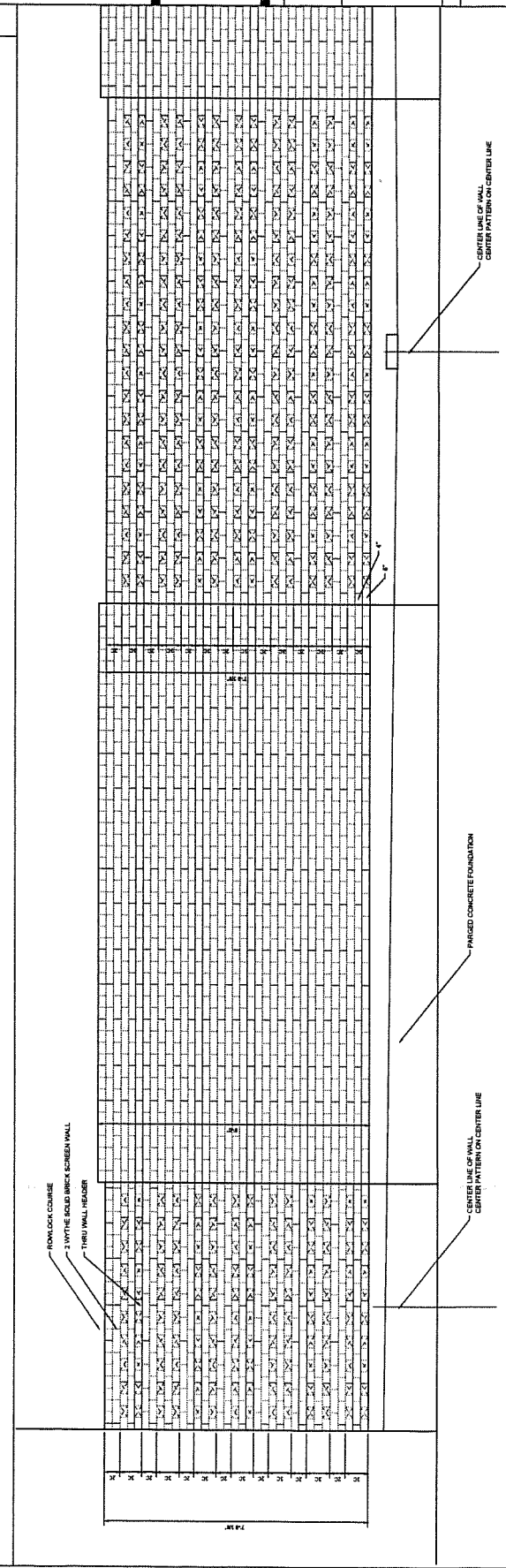
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ELEVATIONS



PARTIAL ELEVATION OF SCREEN WALL

3/4" = 1'-0"

1

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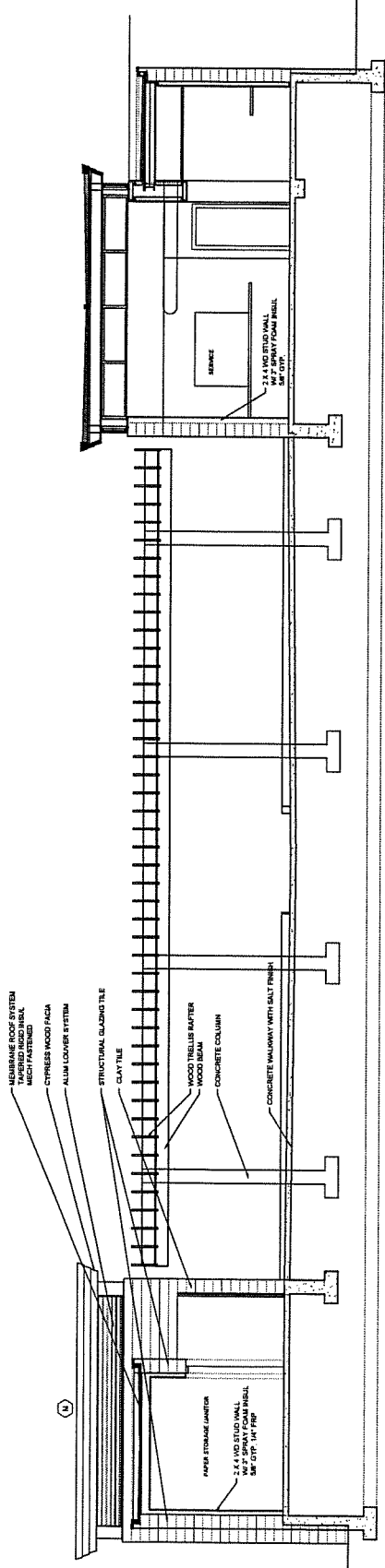
BRAVE EASTWOOD
 DESIGN
 2728 MENKE O SUITE 2
 GALVESTON, TEXAS 77550
 PHONE 409-554-8275
 EASTWOOD@BRAVEA.COM

BEACH PAVILION
CRYSTAL BEACH, TX 77650
 BE-Arc LLC Project No : C-17-003.01

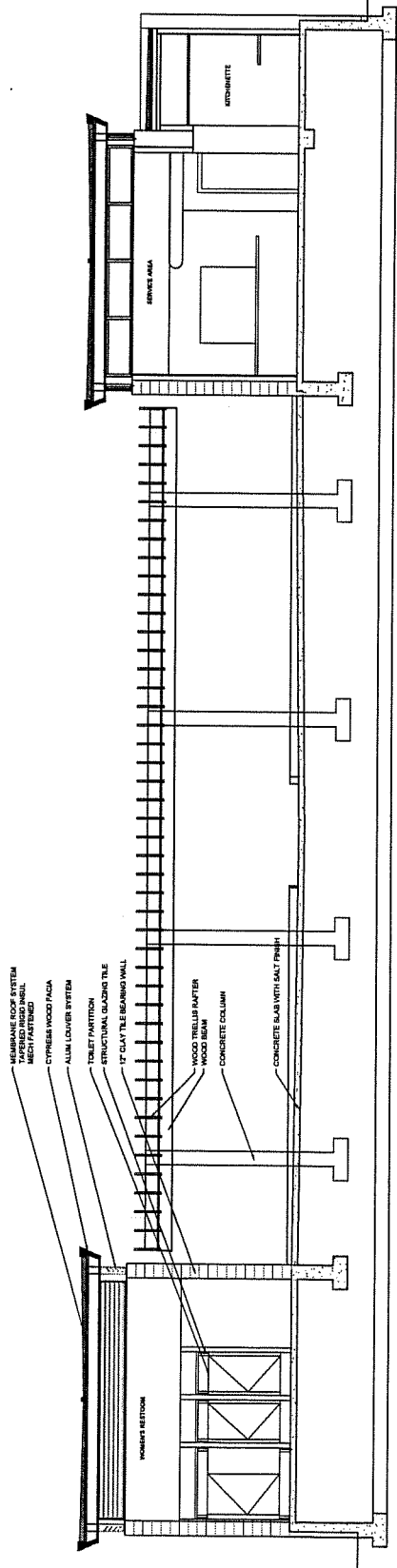


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A3.1
 SECTIONS

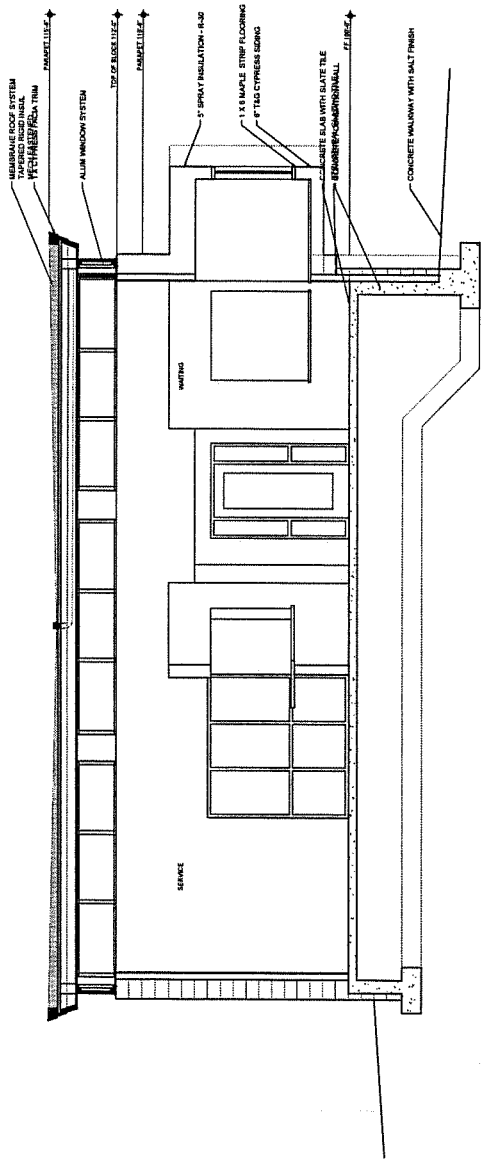


BUILDING SECTION
 1/4" = 1'-0" B

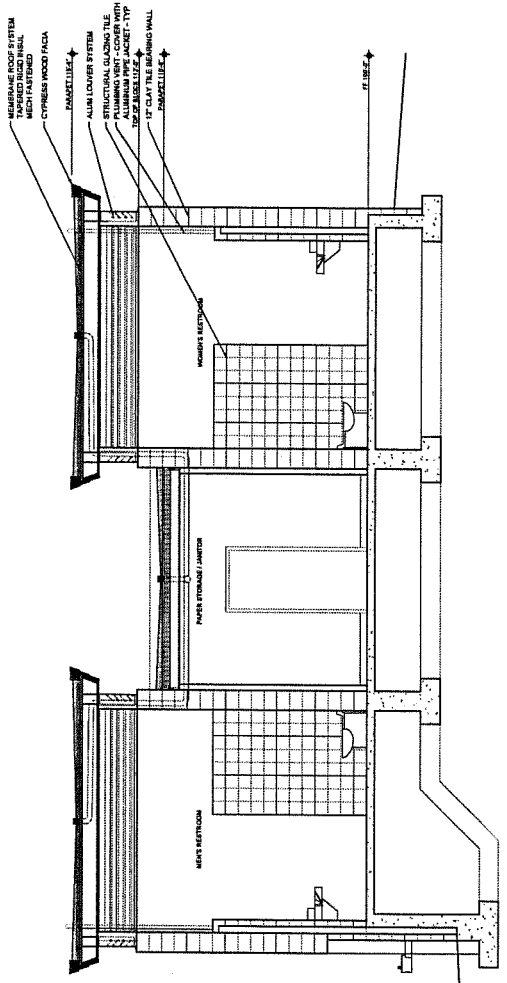


BUILDING SECTION
 1/4" = 1'-0" A

COUNTY APPROVAL:
SIGNATURE _____ DATE _____



BUILDING SECTION 3/8" = 1'-0" **D**



BUILDING SECTION 3/8" = 1'-0" **C**

**GALVESTON COUNTY
BEACH PAVILION
CRYSTAL BEACH, TX 77650**

BE-Mc LLC Project No : C-17-00301



**BRAX EASTERWOOD
DESIGN**
2728 AVENUE Q SUITE 2
GALVESTON TEXAS 77550
PHONE 409-354-8976
ESTERWOOD@BEWA.COM

ARCHITECT # 19864

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A3.2

SECTIONS

COUNTY APPROVAL:
SIGNATURE _____ DATE _____

GALVESTON COUNTY
BEACH PAVILION
CRYSTAL BEACH, TX 77650
BC-Arc LLC Project No : C-17-003.01



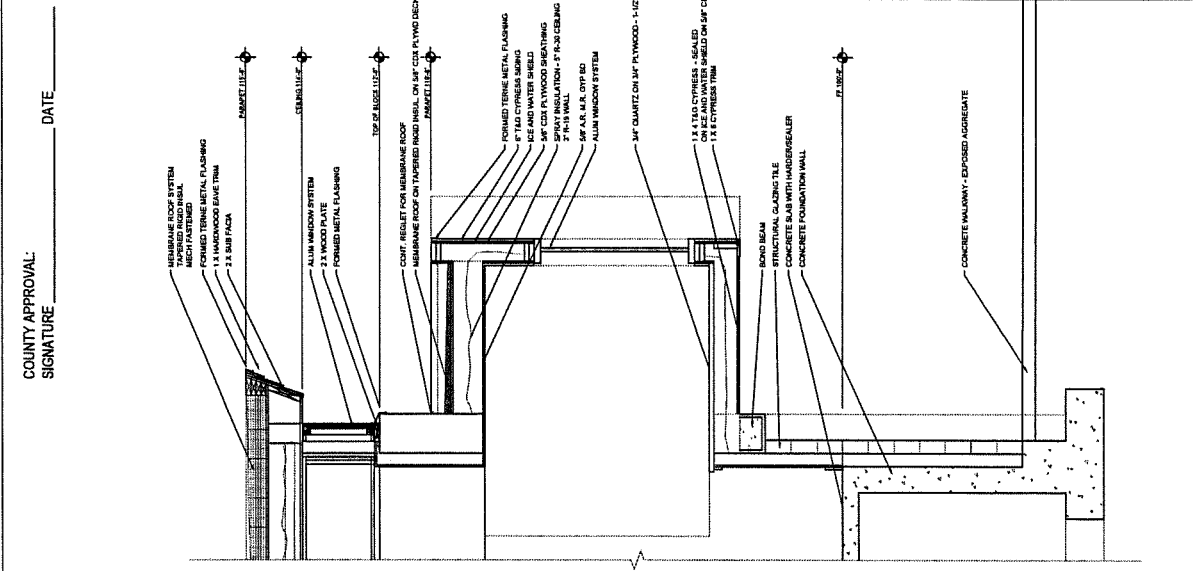
BRAX EASTERWOOD
DESIGN
2728 AVENUE Q SUITE 2
GALVESTON TEXAS 77550
PHONE 409-554-9876
EASTERWOOD@BEAM.COM

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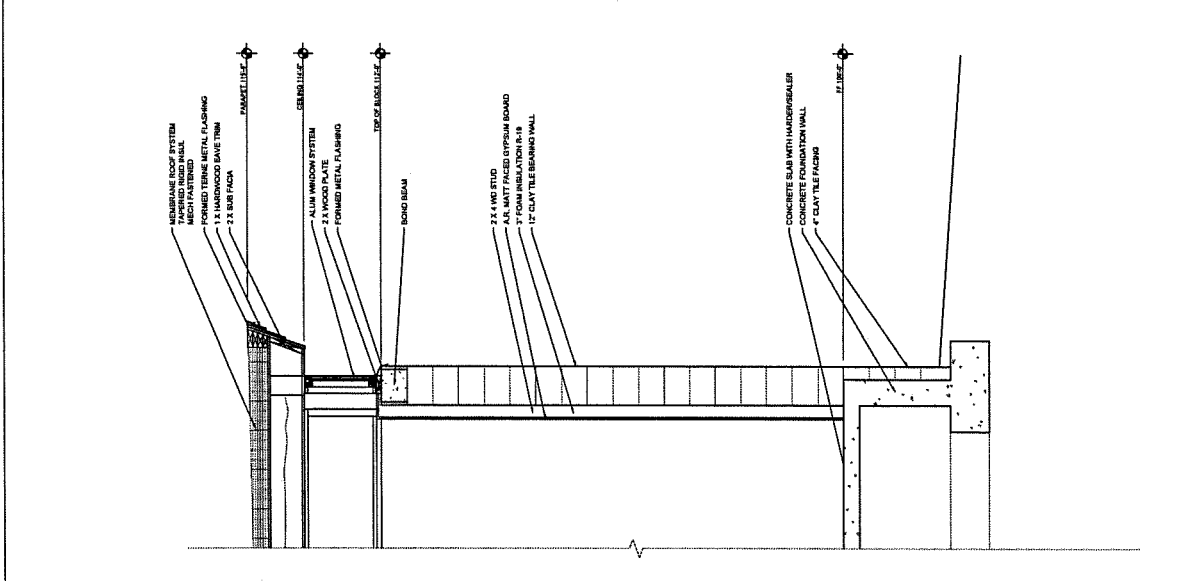
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A3.3

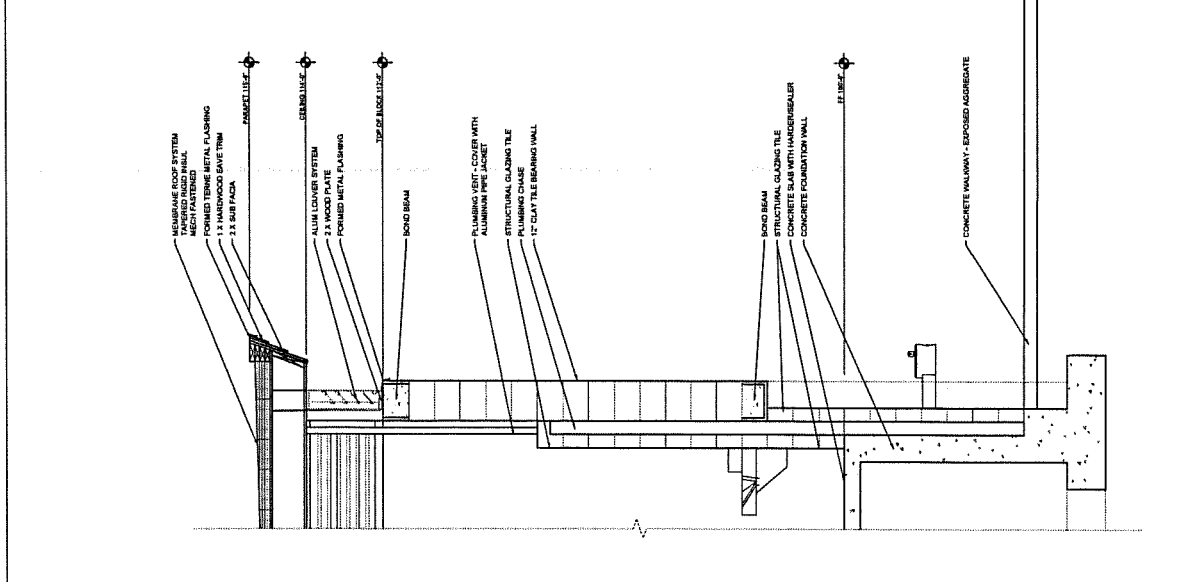
SECTIONS



1 WALL SECTION 3/4" = 1'-0"



2 WALL SECTION 3/4" = 1'-0"



3 WALL SECTION 3/4" = 1'-0"

COUNTY APPROVAL: _____ DATE _____
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**GALVESTON COUNTY
 BEACH PAVILION
 CRYSTAL BEACH, TX 77650**

BE-Arc LLC Project No : C-17-003.01



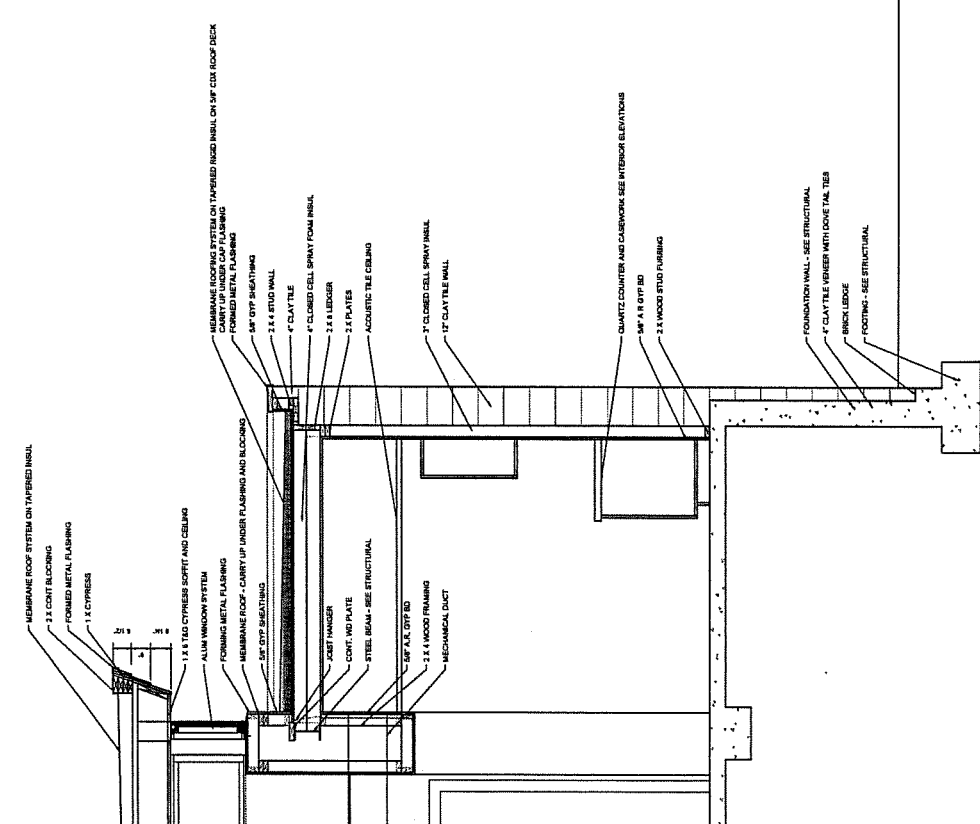
**BRAX EASTERWOOD
 DESIGN**
 2728 AVENUE D SUITE 2
 GALVESTON TEXAS 77550
 PHONE 409-554-8978
 SYSTEMWOOD@aol.com

ARCHITECT # 19894
 SEAL
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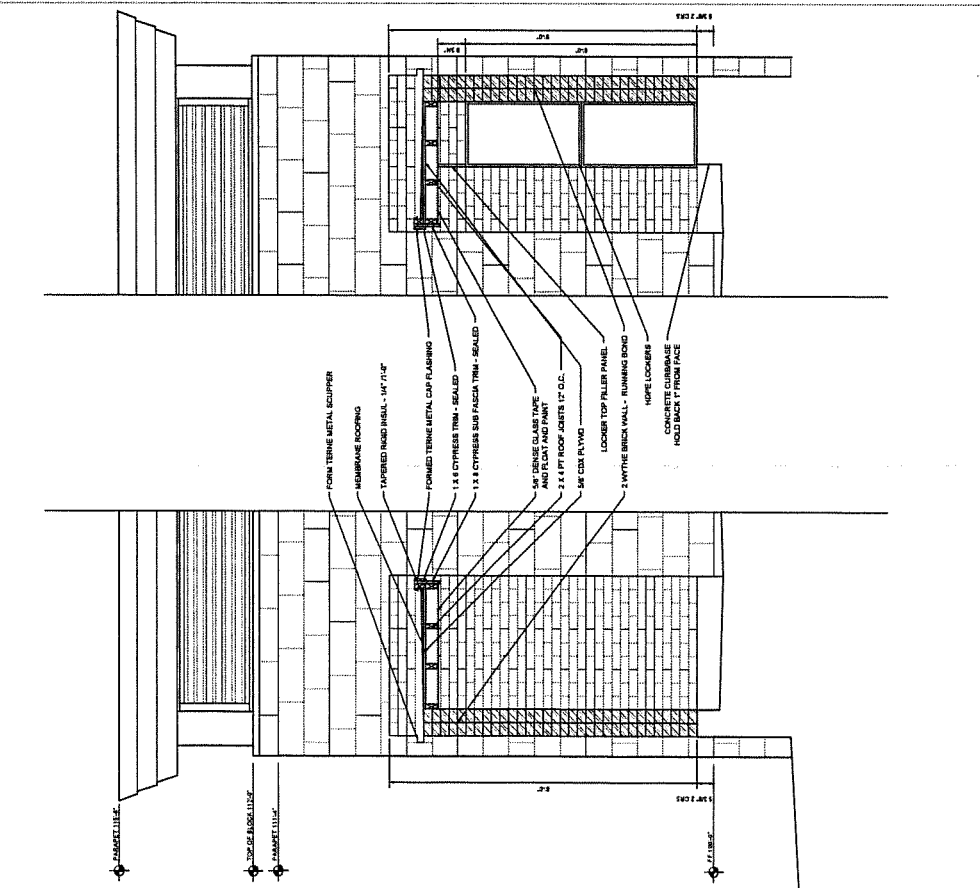
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A3.4

SECTIONS
 3/4" = 1'-0" 1



WALL SECTION 3/4" = 1'-0" 2



WALL SECTION 3/4" = 1'-0" 3

WALL SECTION 3/4" = 1'-0" 1

COUNTY APPROVAL: _____ DATE _____
SIGNATURE _____

NUMBER	ROOM NAME	ROOM FINISH SCHEDULE												NOTES				
		NORTH			EAST			SOUTH			WEST				FLOOR	BASE MATERIAL	CEILING MATERIAL	
101	WAITING	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
102	FIRST AID	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
103	KITCHENETTE	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
104	SERVICE	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
105	RESTROOM	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
110	MEN'S RESTROOM	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
111	PAPER STORAGE / JANITOR	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
112	WOMEN'S RESTROOM	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

GALVESTON COUNTY
BEACH PAVILION
CRYSTAL BEACH, TX 77650

BE-Mec LLC Project No : C-17-003.01



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EASTERWOOD@BEYA.COM

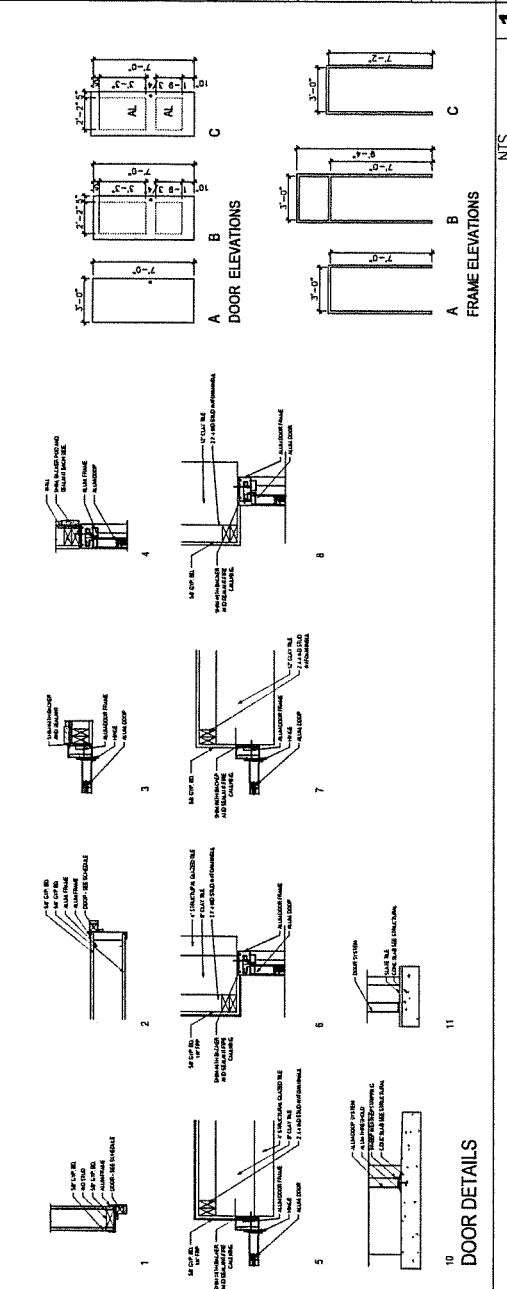
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A6.1
SCHEDULES

Room	Door		Frame		Details		Notes
	Rating	Elevation	Width	Height	Thickness	Material	
101A	A	3'-0"	7'-0"	1-3/4"	WD	A	1 2 11
101B	A	3'-0"	7'-0"	1-3/4"	WD	A	1 2 11
103A	A	3'-0"	7'-0"	1-3/4"	WD	A	1 2 11
103A	A	3'-0"	7'-0"	1-3/4"	WD	A	1 2 11
X1	A	3'-0"	7'-0"	1-3/4"	AL	B	3 SIM 10
X2	B	3'-0"	7'-0"	1-3/4"	AL	C	8 SIM 7 10
X3	B	3'-0"	7'-2"	1-3/4"	AL	C	8 6 10

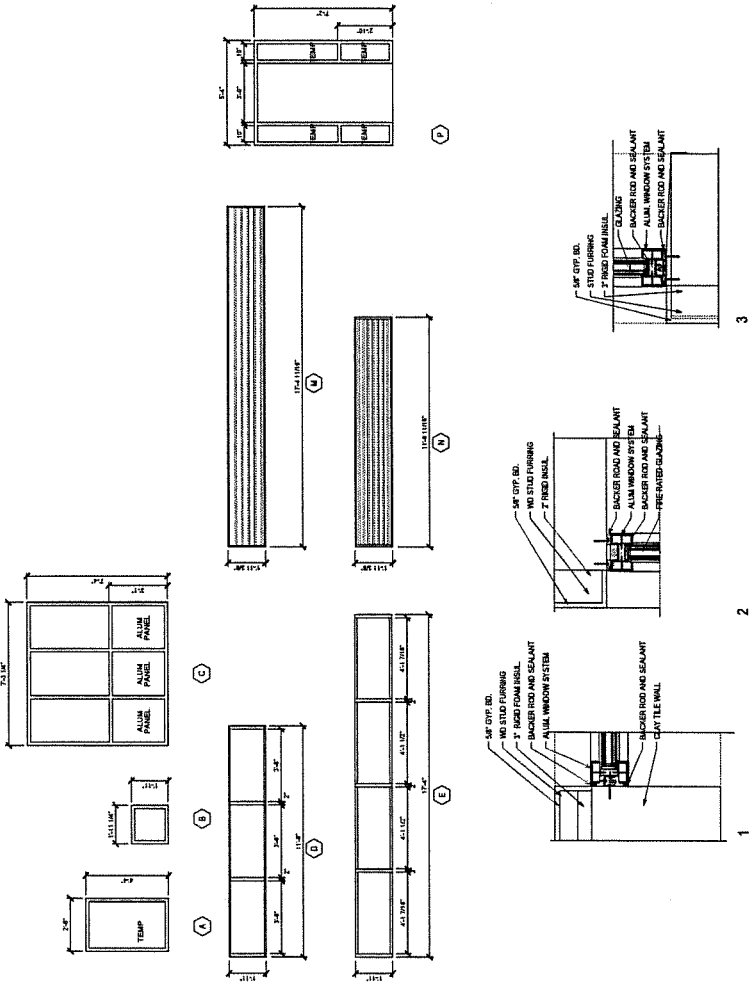


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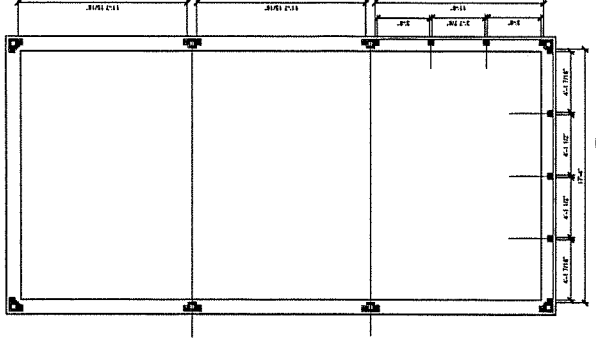
**GALVESTON COUNTY
 BEACH PAVILION
 CRYSTAL BEACH, TX 77650**

WINDOW SCHEDULE

EXTERIOR TYPE	HEIGHT	WIDTH	MATERIAL	DETAIL	SILL HEIGHT	NOTES
A	4'-4"	2'-8"	AL	2/3/4	2'-10" AB 100'	
B	1'-11 1/4"	1'-11 1/4"	AL	2/3/4 SIM.	5'-4-1/2" AB 100'	
C	1'-11 1/4"	1'-11 1/4"	AL	2/3/4	0'-4" AB 100'	
D	1'-11 1/4"	11'-8"	AL	2/3/4 SIM.	12'-0 5/8" AB 100'	
E	1'-11 1/4"	17'-4"	AL	2/3/4	12'-0 5/8" AB 100'	
M	1'-11 3/8"	17'-4 11/16"	AL	2/3/4 SIM.	12'-0 5/8" AB 100'	ALUM SCREEN LOUVER
N	1'-11 3/8"	11'-8 11/16"	AL	2/3/4	12'-0 5/8" AB 100'	ALUM SCREEN LOUVER
P	7'-2"	5'-4"	AL	2/3/4	0" AB 100'	



1 UPPER PLAN RESTROOM PAVILION
 Scale: 1/4" = 1'-0"



1 UPPER PLAN SERVICE PAVILION
 Scale: 1/4" = 1'-0"

NTS

WINDOW SCHEDULE - ENLARGED PLAN, ELEVATIONS, AND DETAILS

1



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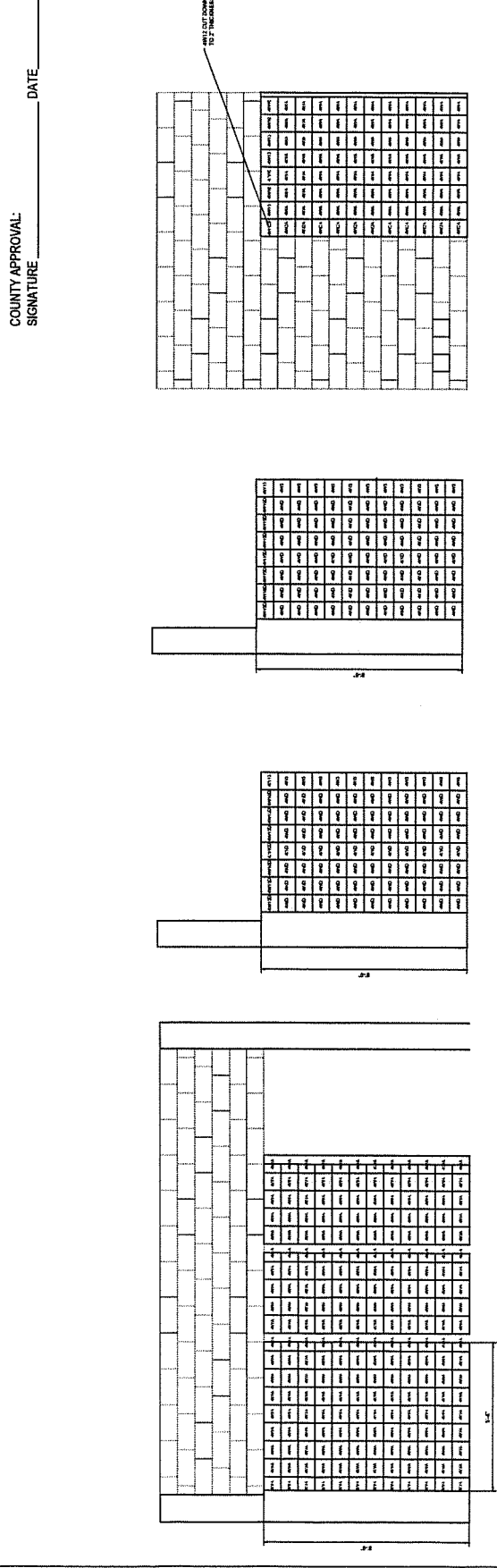
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A6.2

WINDOWS

COUNTY APPROVAL:
SIGNATURE _____ DATE _____



INTERIOR ELEVATIONS 1/2" = 1'-0" 4 INT ELEVATIONS 1/2" = 1'-0" 5 INT ELEVATIONS 1/2" = 1'-0" 6 INT ELEVATIONS 1/2" = 1'-0" 7

**GALVESTON COUNTY
BEACH PAVILION
CRYSTAL BEACH, TX 77650**

BC-Arc LLC Project No : C-17-003.01



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PHONE 409-554-8975
EASTERWOODBRAX.COM

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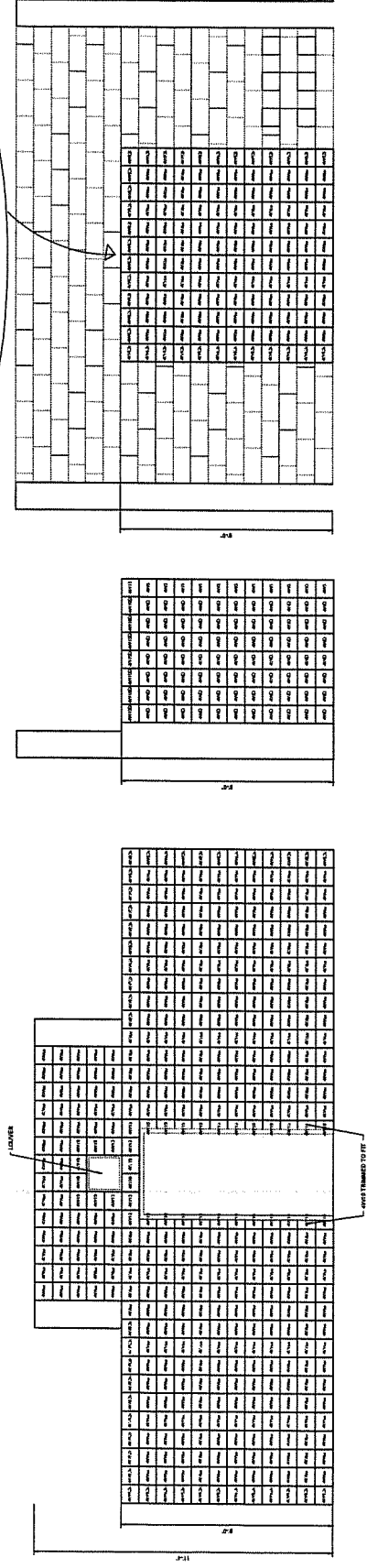
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A7.1

INTERIOR ELEVATIONS



INT ELEV LOOKING NORTH 1/2" = 1'-0" 1 INT ELEV LOOKING SOUTH 1/2" = 1'-0" 2 INTERIOR ELEVATIONS 1/2" = 1'-0" 3

COUNTY APPROVAL:
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EASTERNWOODBRAX.COM

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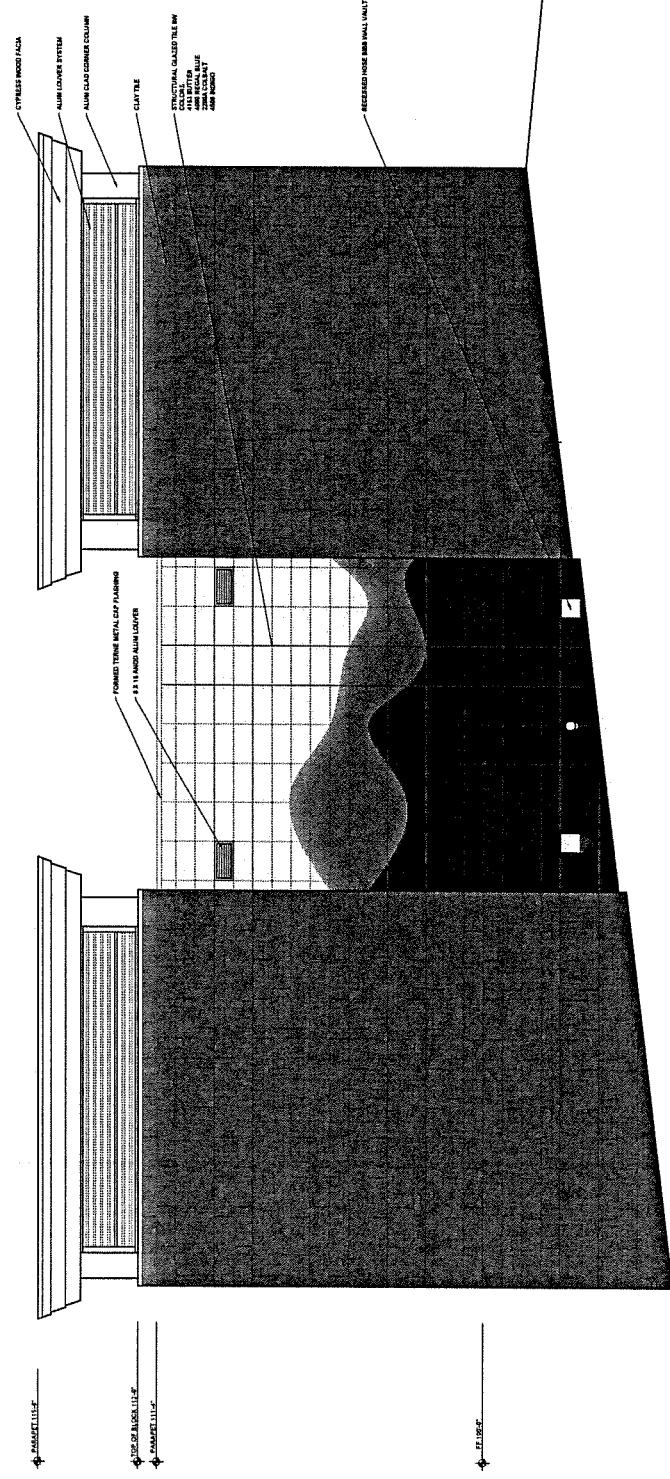
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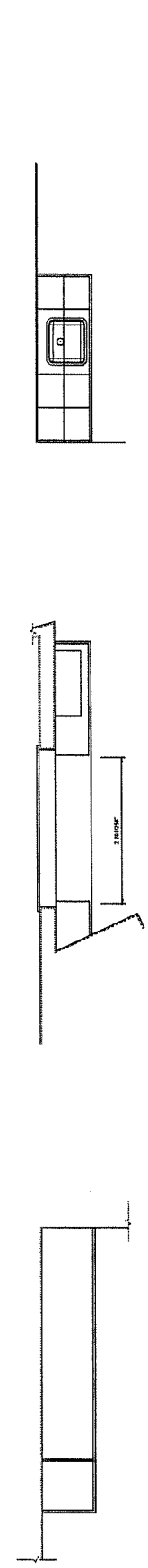
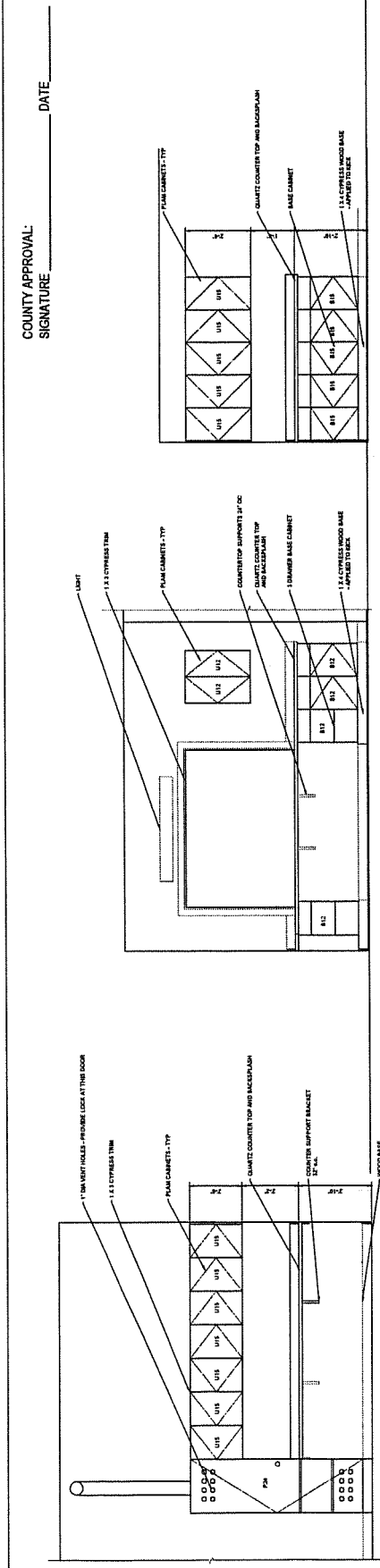
A7.2

ENLARGED ELEVATION

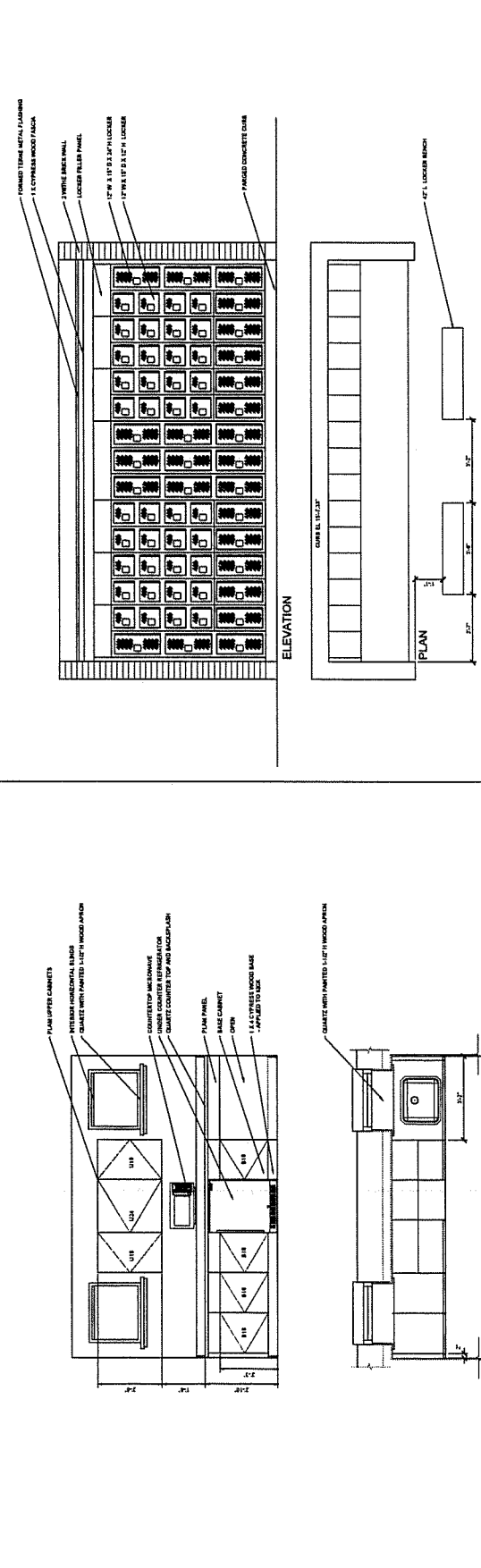


ENLARGED NORTH ELEVATION

1/2" = 1'-0" 1



CASEWORK - SERVICE 104 1/2" = 1'-0" **5 SERVICE COUNTER - SERVICE 104** 1/2" = 1'-0" **4 CASEWORK - FIRST AID 101** 1/2" = 1'-0" **3**

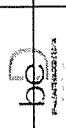


CASEWORK - KITCHENETTE 103 1/2" = 1'-0" **2 ENLARGED LOCKER PLAN AND ELEVATION** 1/2" = 1'-0" **1**

COUNTY APPROVAL: _____ DATE _____
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GALVESTON COUNTY
BEACH PAVILION
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27278 AVENUE Q, SUITE 2
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EASTERWOOD@BEWA.COM

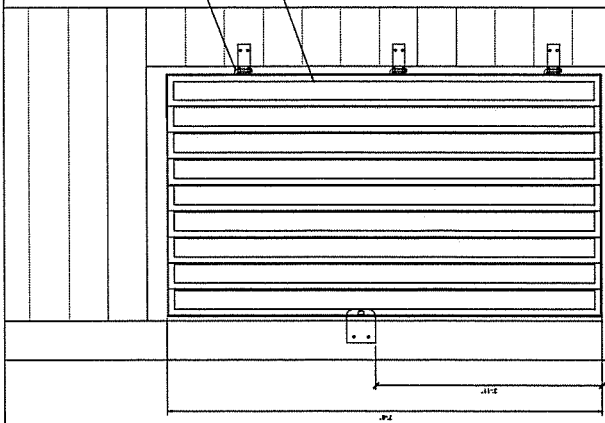
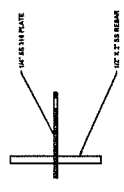
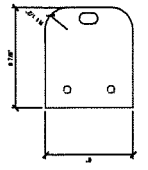
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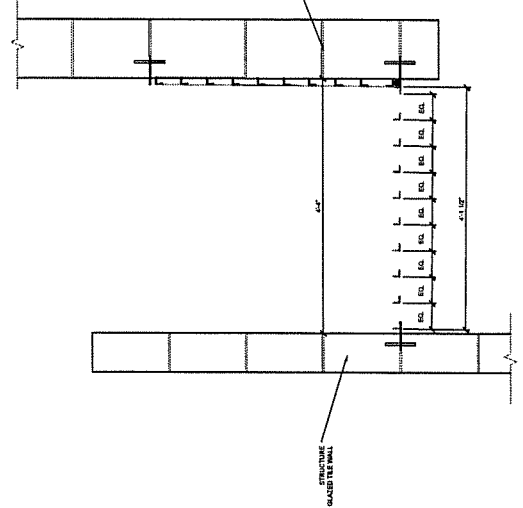
A7.3

CASEWORK

COUNTY APPROVAL:
SIGNATURE _____ DATE _____



GATE ELEVATION 1" = 1'-0" **C HASP PLATE ANCHOR** 3" = 1'-0"



RESTROOM GATE PLAN 1" = 1'-0" **C HINGE PLATE ANCHOR** 3" = 1'-0"

GALVESTON COUNTY
BEACH PAVILION
CRYSTAL BEACH, TX 77650

BE-Arc LLC Project No : C-17-003.01



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EASTERM000@GMAIL.COM

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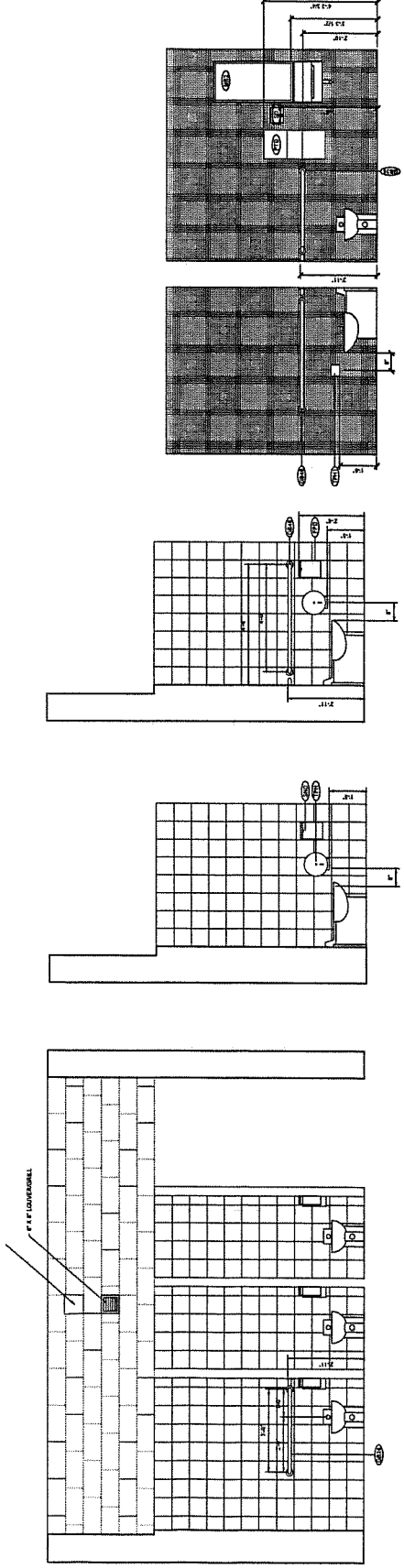
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A7.4

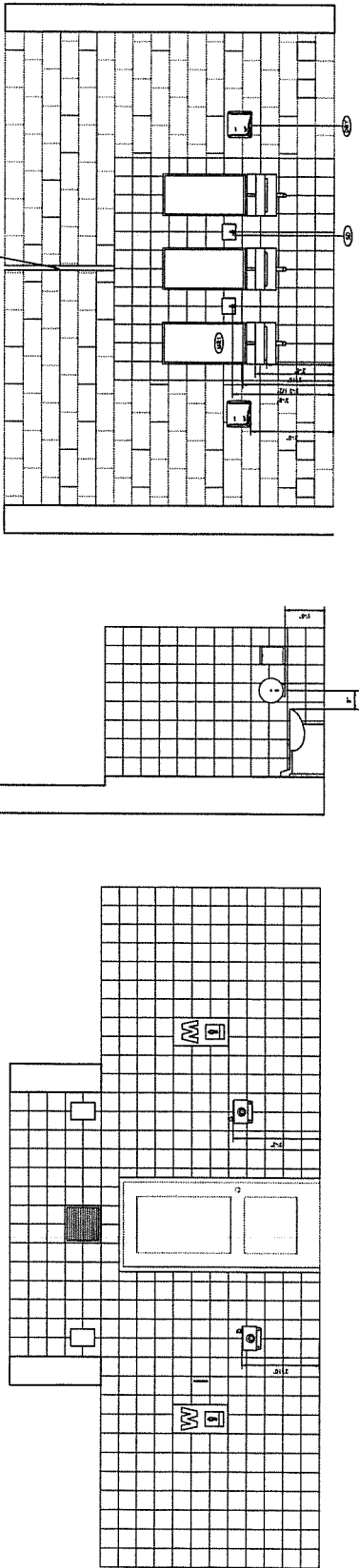
MISC METALS

COUNTY APPROVAL:
SIGNATURE _____ DATE _____

- LEGEND
- ① - GRAB BAR
 - ② - GRAB BAR
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 - ㊿ - GRAB BAR
 - ① - SHAVING DISPENSER
 - ② - TOILET PAPER HOLDER - J.M.M.D.
 - ③ - MIRROR 18" X 36"
 - ④ - MIRROR 18" X 36"
 - ⑤ - MIRROR 18" X 36"
 - ⑥ - MIRROR 18" X 36"
 - ⑦ - MIRROR 18" X 36"
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 - ㊿ - MIRROR 18" X 36"



INTERIOR ELEVATIONS 1/2" = 1'-0" 4 INT ELEV 1/2" = 1'-0" 5 INT ELEV 1/2" = 1'-0" 6 RESTROOM 105 ELEVATION 1/2" = 1'-0" 7



INT ELEV LOOKING SOUTH 1/2" = 1'-0" 1 INT ELEV LOOKING NORTH 1/2" = 1'-0" 2 INTERIOR ELEVATIONS 1/2" = 1'-0" 3

GALVESTON COUNTY
BEACH PAVILION
CRYSTAL BEACH, TX 77650
BE-Arc LLC Project No: C-17-003.01



BRAX EASTERWOOD
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PHONE 409-554-8976
EASTERWOODBEA.COM

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INTERIOR ELEVATIONS

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PHONE: 409-541-8575
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BE-Mc LLC Project No: C-17-003.01

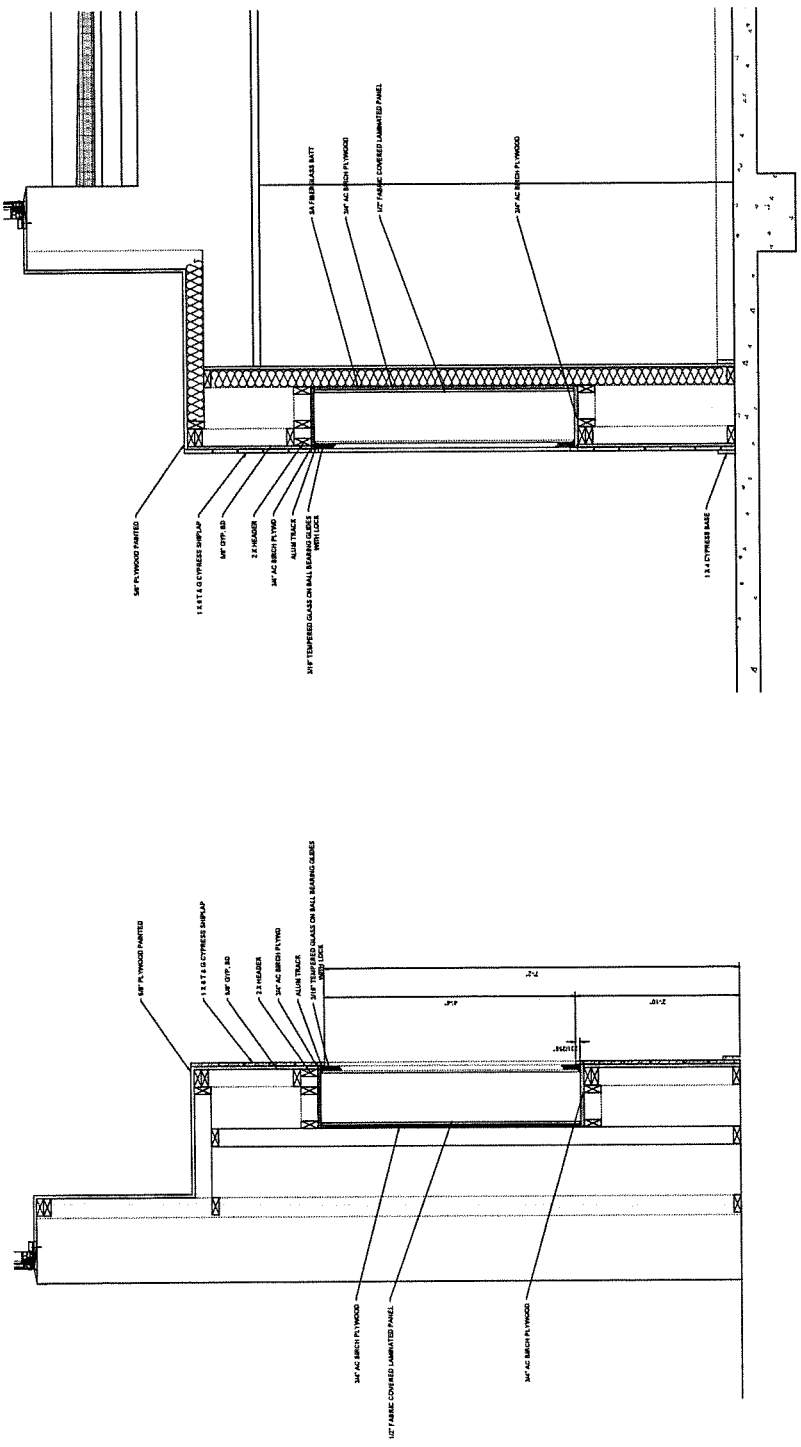


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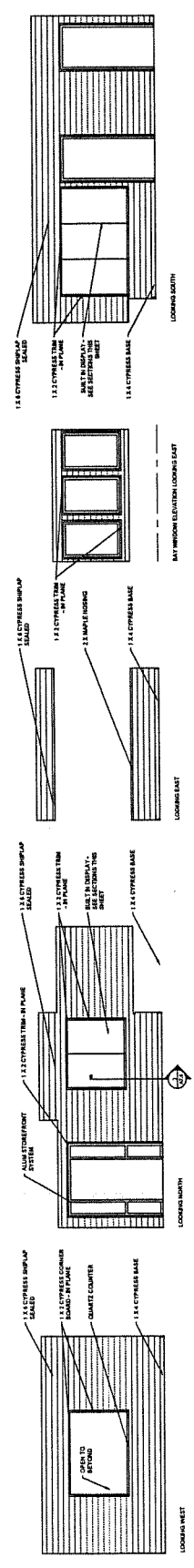
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A7.6
INTERIOR ELEVATIONS



WALL SECTION THRU NORTH DISPLAY CABINET 1" = 1'-0" **2** | **WALL SECTION THRU SOUTH DISPLAY CABINET** 1" = 1'-0" **3**



INT ELEVATION - WAITING 101 1/4" = 1'-0" **1**

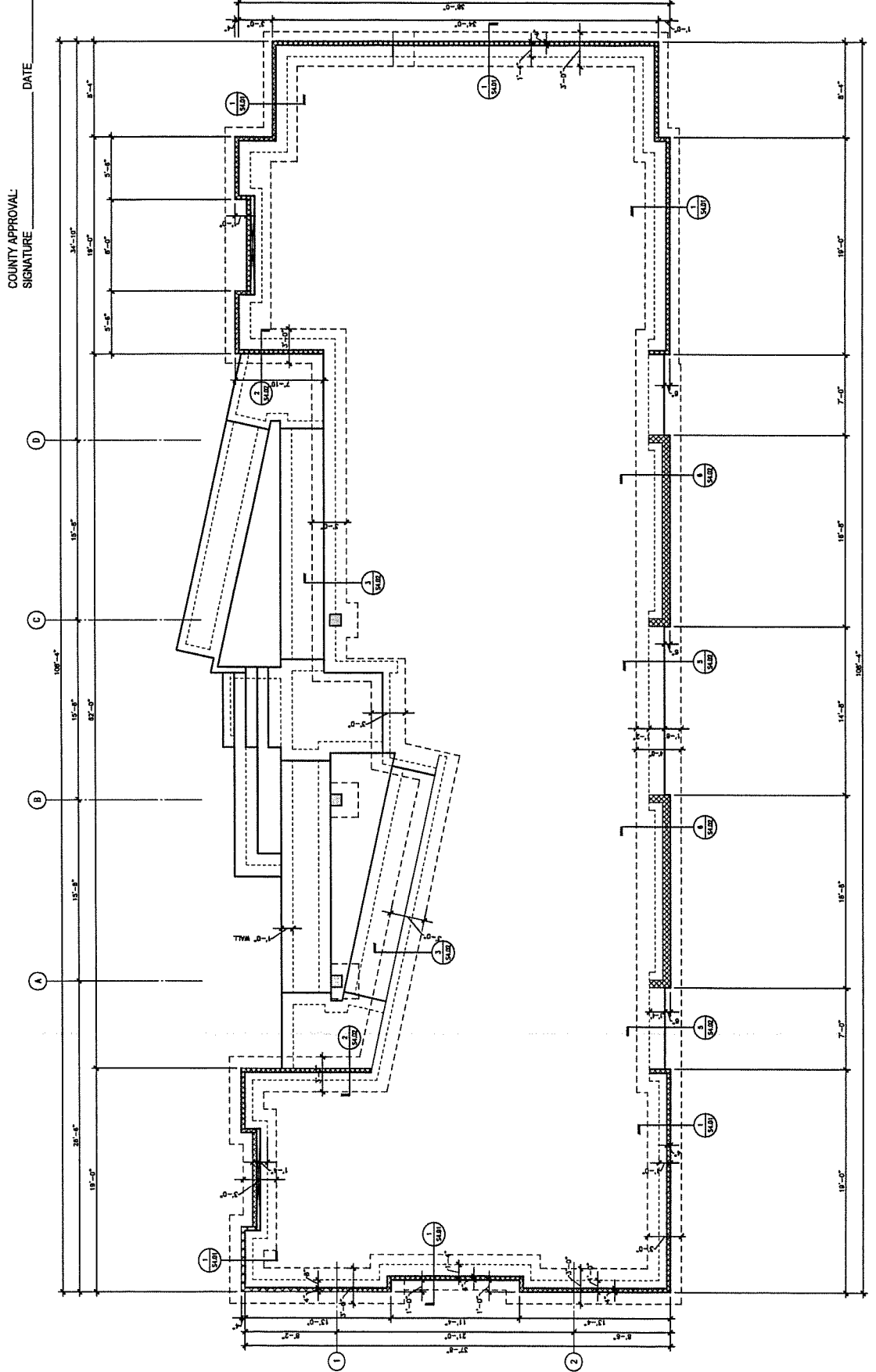
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 BEACH PAVILION
 CRYSTAL BEACH, TX 77650
 Shelmark Project No: 17-217



DATE	REVISION

CONSTRUCTION DOCUMENTS
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S1.01
 FOUNDATION STEM WALL
 FOOTING PLAN



COUNTY APPROVAL:
 SIGNATURE _____ DATE _____

FOUNDATION STEM WALL / FOOTING PLAN
 SCALE: 1/4"=1'-0"

COUNTY APPROVAL: _____ DATE: _____
 SIGNATURE: _____

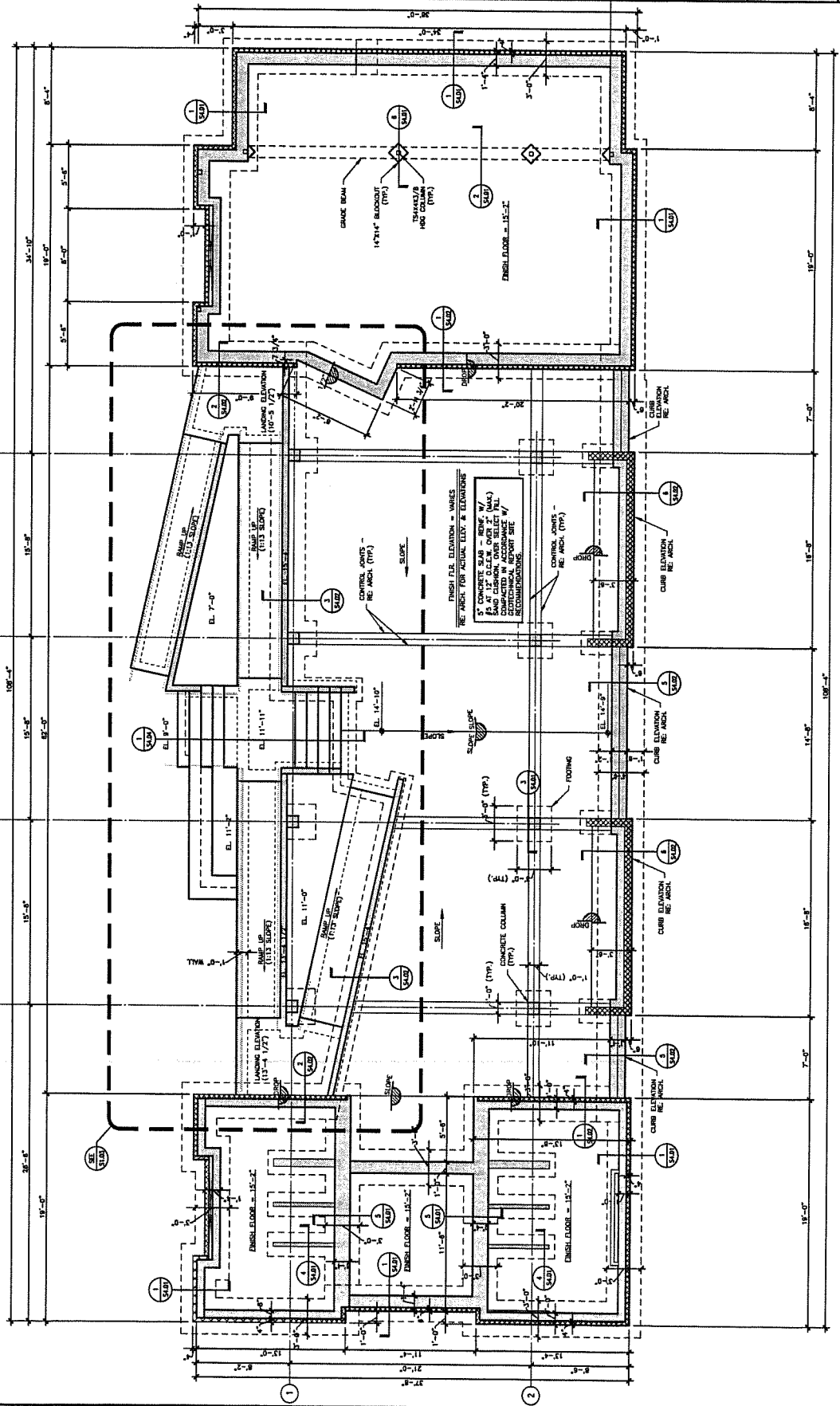
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 SHEMARK Project No: 17-217



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\$1.02
 FOUNDATION PLAN



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

COUNTY APPROVAL
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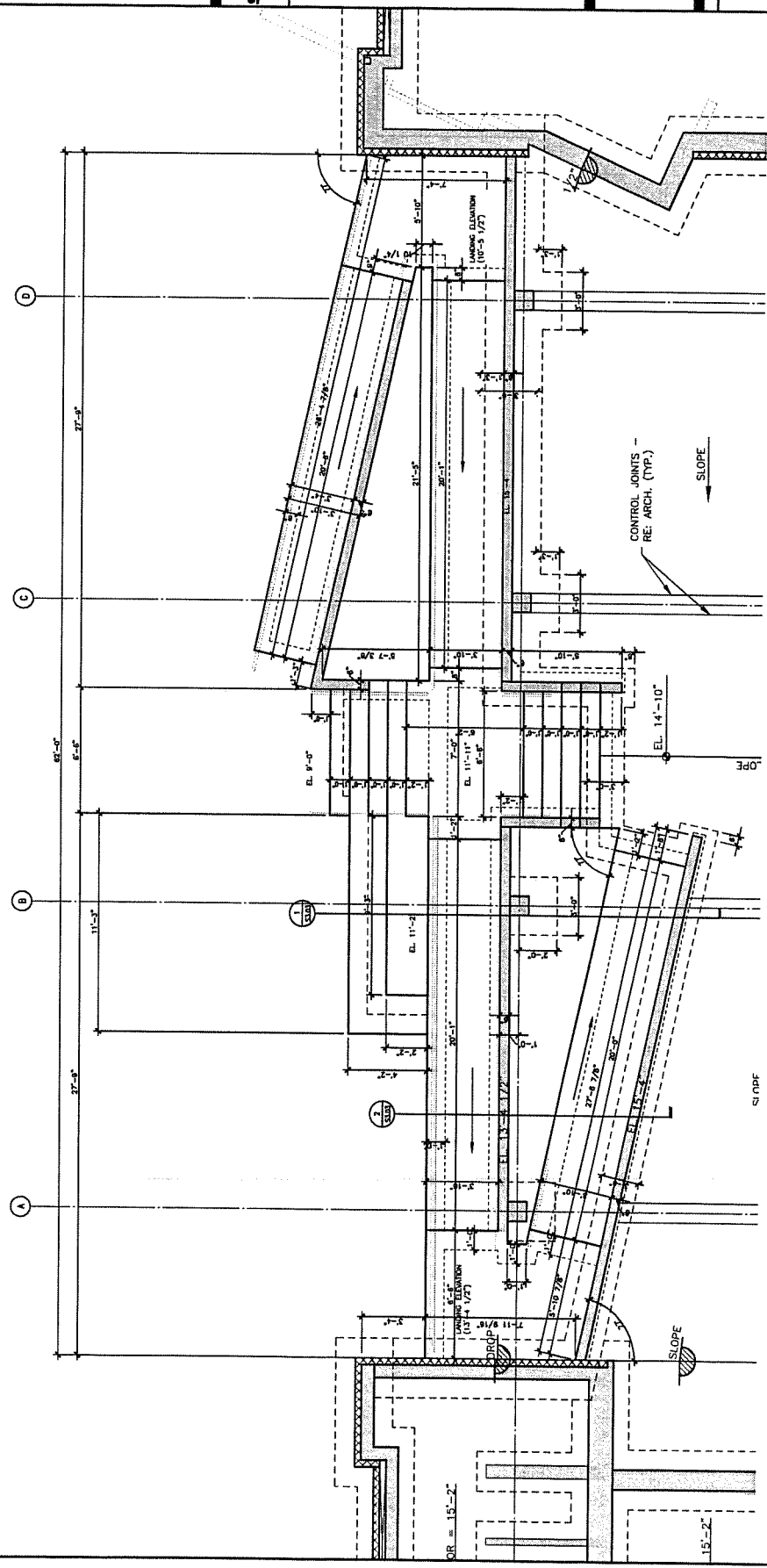
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DATE ISSUED: 12/22/2017

S1.03
ENLARGED RAMP-STAIR FOUNDATION PLAN



ENLARGED RAMP / STAIR FOUNDATION PLAN
SCALE: 3/8"=1'-0"



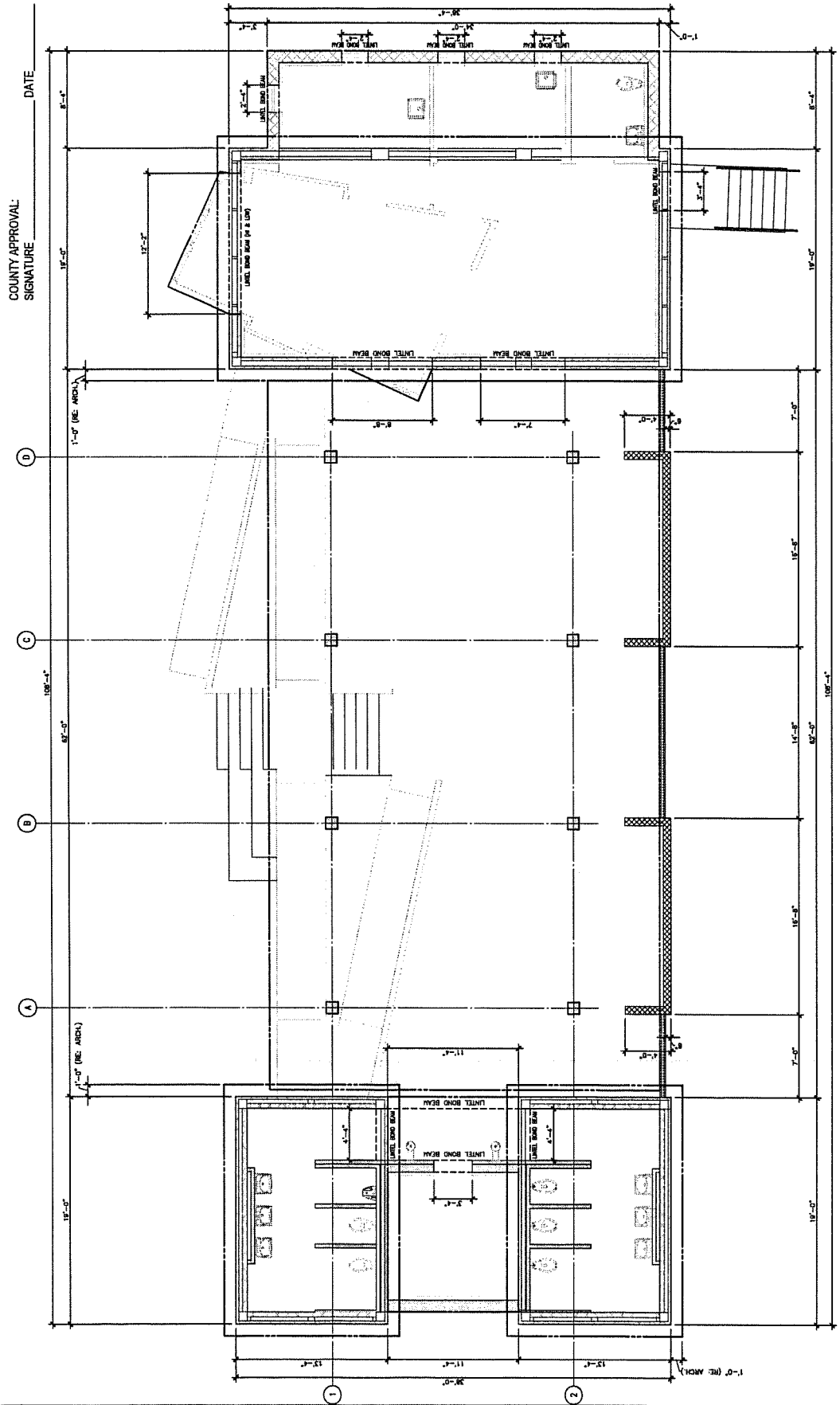
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S2.01

WALL LAYOUT



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 DATE _____

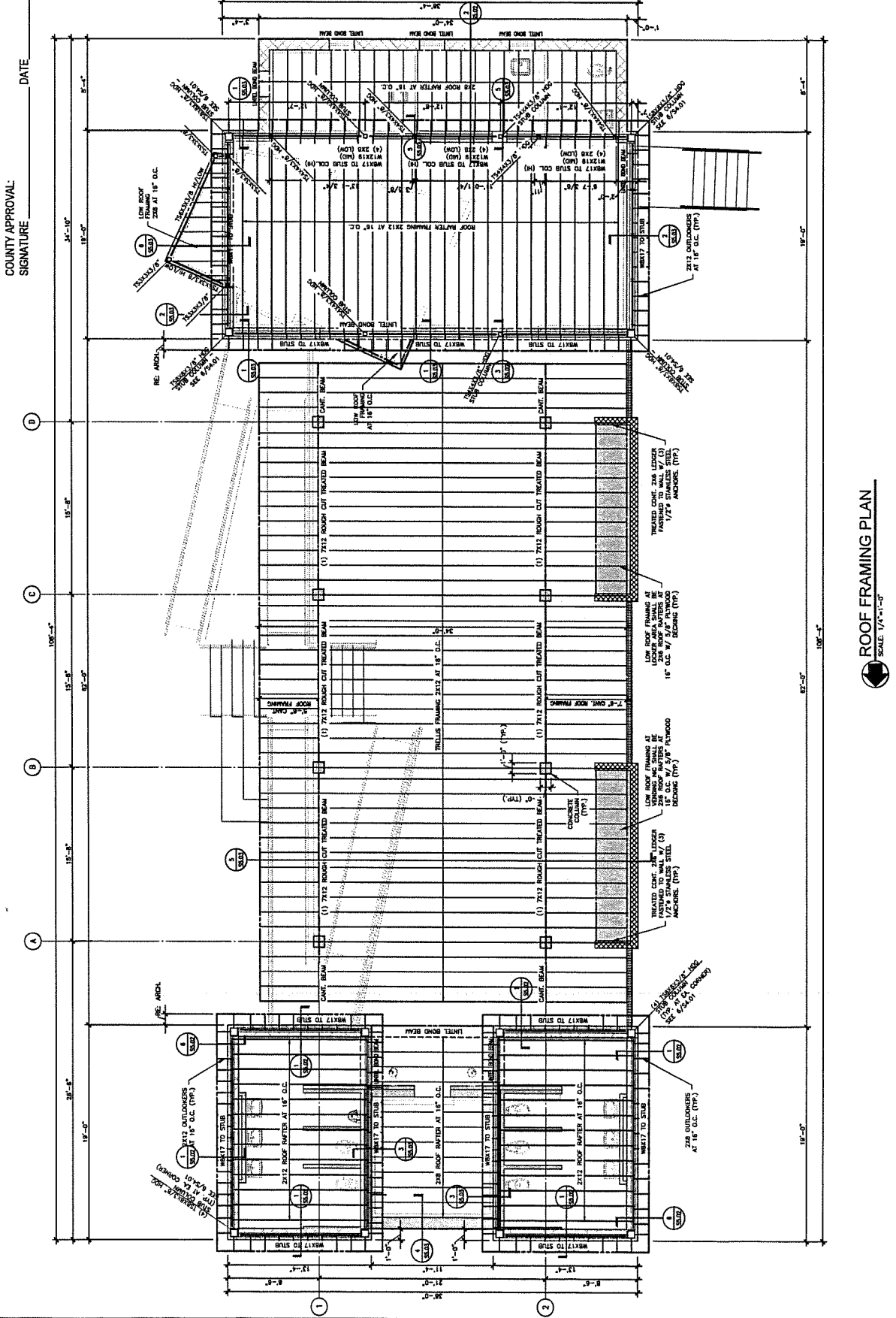
WALL LAYOUT
 SCALE: 1/4"=1'-0"



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\$3.01
 ROOF FRAMING PLAN



ROOF FRAMING PLAN
 SCALE: 1/4"=1'-0"

COUNTY APPROVAL
 SIGNATURE _____
 DATE _____

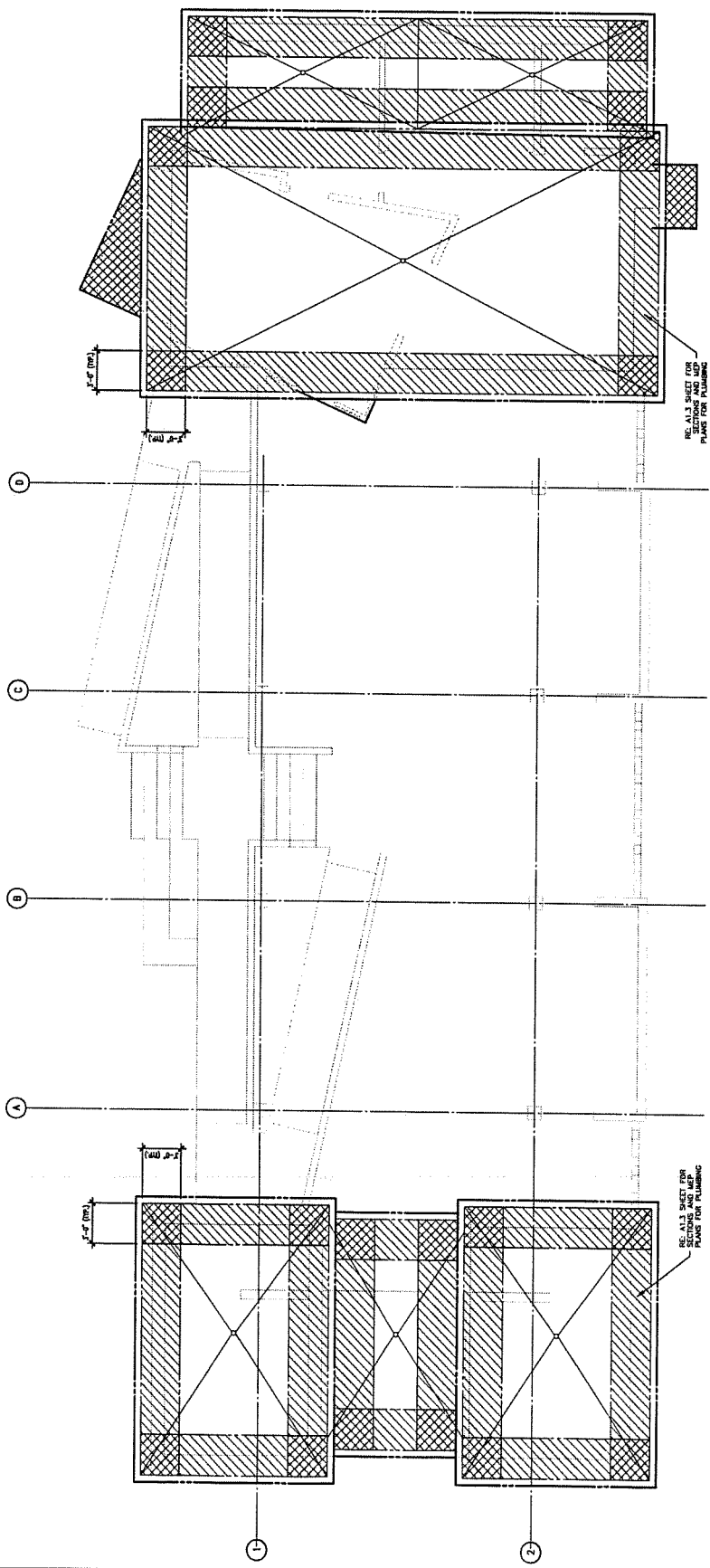


DATE	REVISION

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\$3.02
 ROOF DESIGN PRESSURE PLAN

COUNTY APPROVAL:
 SIGNATURE _____ DATE _____



DESIGN WIND PRESSURES	
PRESSURE ZONE	DESIGN PRESSURE (PSF)
ZONE 1	+18.4 / -42.3 PSF
ZONE 2	+18.4 / -42.3 PSF
ZONE 3	+18.4 / -101.4 PSF

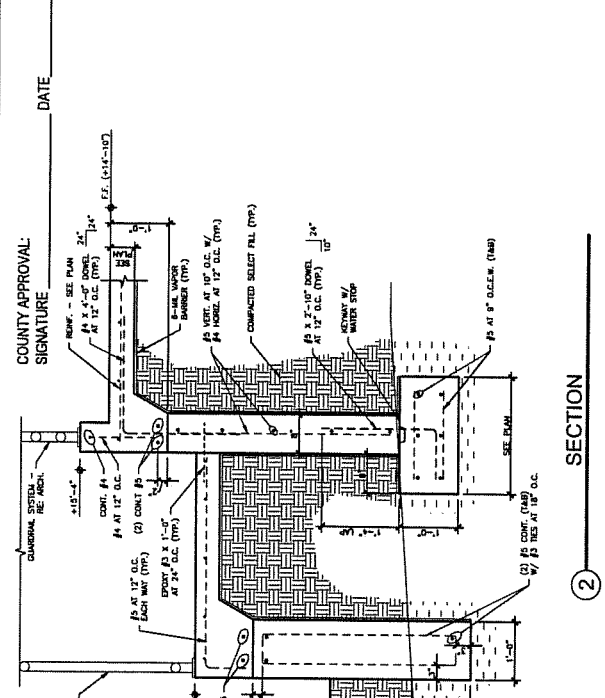
ROOF PLAN
 SCALE: 1/4"=1'-0"



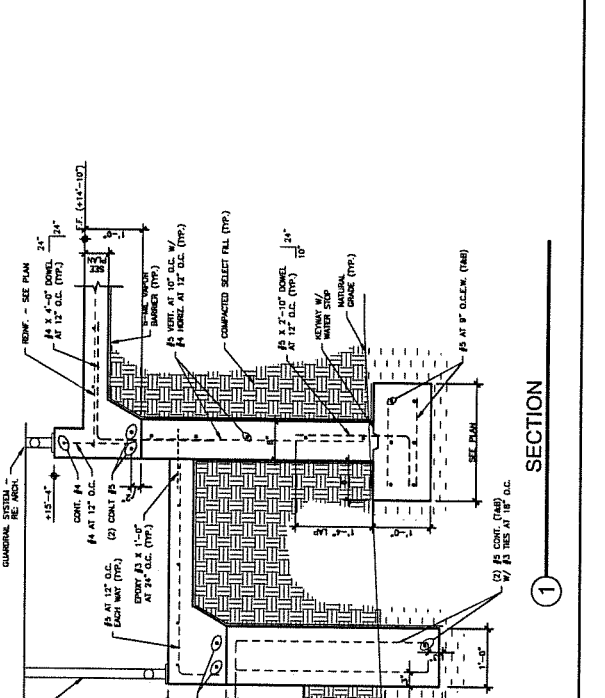
DATE	REVISION

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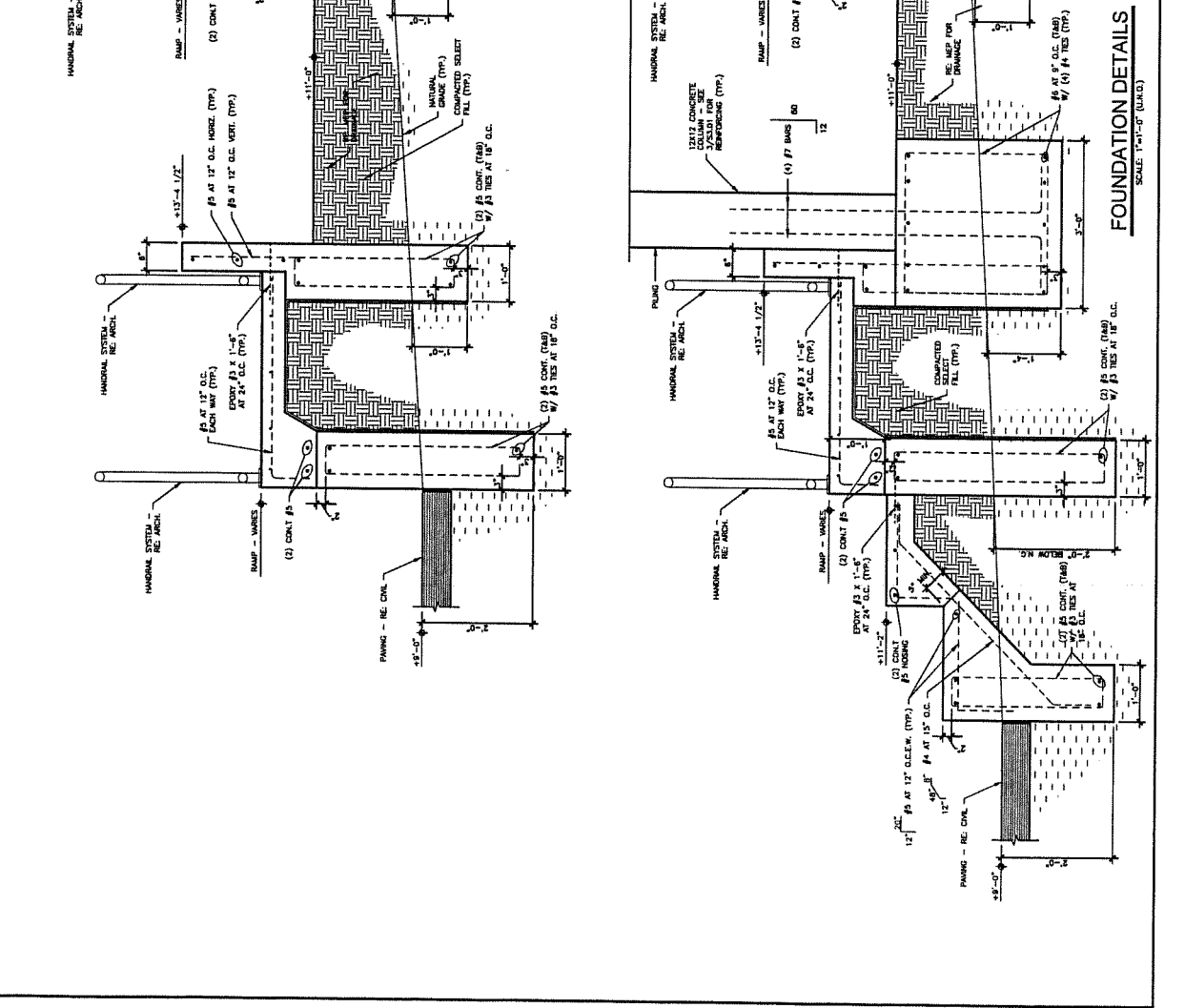
S4.03
 FOUNDATION DETAILS



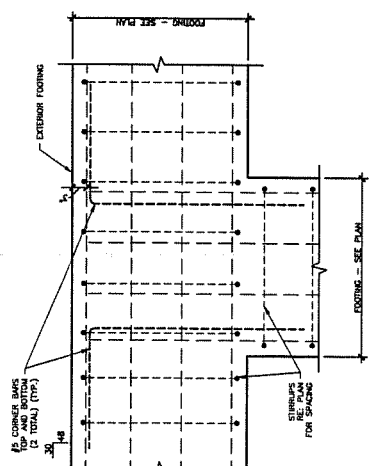
SECTION 2



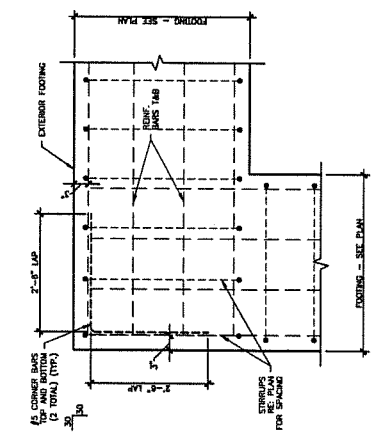
SECTION 1



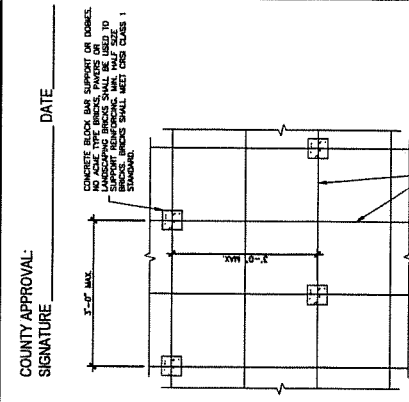
FOUNDATION DETAILS
 SCALE 1/4"=1'-0" (LOAD)



4 FOOTING REINFORCEMENT DETAIL



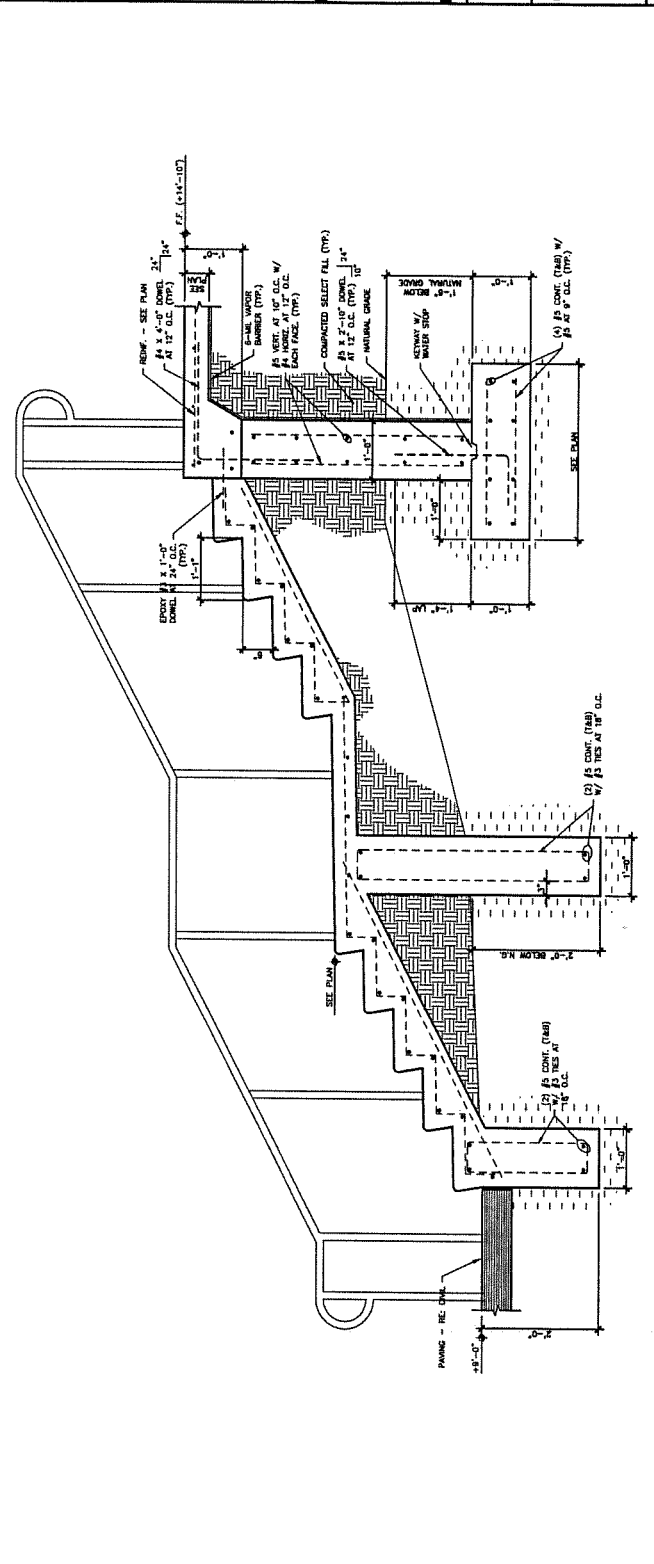
3 FOOTING REINFORCEMENT DETAIL



2 SECTION

COUNTY APPROVAL: SIGNATURE _____ DATE _____

CRYSTAL BEACH, TX 77650
 GALVESTON COUNTY
 SHELMARK



1 SECTION at STAIRS
 FOUNDATION DETAILS
 SCALE 1/4"=1'-0" (IND.)

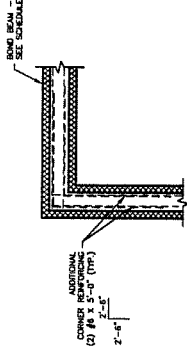


DATE	REVISION

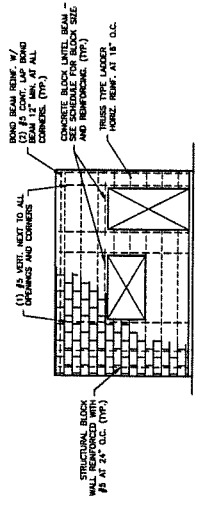
CONSTRUCTION DOCUMENTS
 DATE ISSUED: 12/22/2017

S4.04
 FOUNDATION DETAILS

COUNTY APPROVAL: _____ DATE: _____
SIGNATURE: _____



2 BOND BEAM CORNER DETAIL

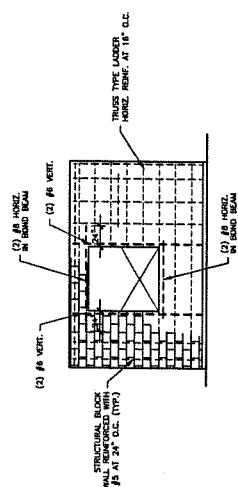


NOTE: SEE STRUCTURAL BLOCK WALL.

1. ALL MASONRY GROUT SHALL BE PER TABLE 1, ALL MORTAR PER TABLE 2.
2. ALL MASONRY SHALL BE PER TABLE 1, ALL MORTAR PER TABLE 2.
3. EXTEND LATERAL BEAM 4\"/>

WALL THICKNESS	CONCRETE BLOCK LATERAL SCHEDULE		12'-9"
	4'-8"	9'-0"	
4"	GROUT 1 COURSE AT 18" O.C. (1) #4 CONF.	#5 STRIPS AT GROUT 2 COURSES (1) #4 CONF.	N/A
6"	GROUT 1 COURSE AT 18" O.C. (1) #4 CONF.	#5 STRIPS AT GROUT 2 COURSES (1) #4 CONF.	#5 STRIPS AT GROUT 2 COURSES (1) #4 CONF.
8"	GROUT 1 COURSE AT 18" O.C. (1) #4 CONF.	#5 STRIPS AT GROUT 2 COURSES (1) #4 CONF.	#5 STRIPS AT GROUT 2 COURSES (1) #4 CONF.
12"	GROUT 1 COURSE AT 18" O.C. (1) #4 CONF.	#5 STRIPS AT GROUT 2 COURSES (1) #4 CONF.	#5 STRIPS AT GROUT 2 COURSES (1) #4 CONF.

TYPE	PARTS BY WEIGHT OF PORTLAND CEMENT AND FINE AGGREGATE		FINE	COURSE
	PORTLAND CEMENT	FINE AGGREGATE		
FINE GROUT (4" WIDE COURSE)	1	0 TO 1/10	2 1/4 TO 3 TIMES THE SUM OF THE VOLUMES OF THE COMPONENTS MATERIAL.	
COARSE GROUT (4" WIDE COURSE)	1	0 TO 1/10	2 1/4 TO 3 TIMES THE SUM OF THE VOLUMES OF THE COMPONENTS MATERIAL.	
MATERIAL	TABLE 2. MORTAR PROPORTIONS BY VOLUME		AGGREGATE RATIO IN DAMP, LOOSE CONDITION	
	PORTLAND CEMENT	HYDRATED LIME OR LIME PUTTY	AGGREGATE RATIO IN DAMP, LOOSE CONDITION	AGGREGATE RATIO IN DAMP, LOOSE CONDITION
CHERT-LINE MASONRY/ COURSE	1	1/2	OVER 1/4 TO 1/2	OVER 1/4 TO 1/2



3 BLOCK WALL AT WAITING ROOM



DATE	REVISION

CONSTRUCTION DOCUMENTS

DATE ISSUED:
12/22/2017

\$5.01

BLOCK WALL DETAILS

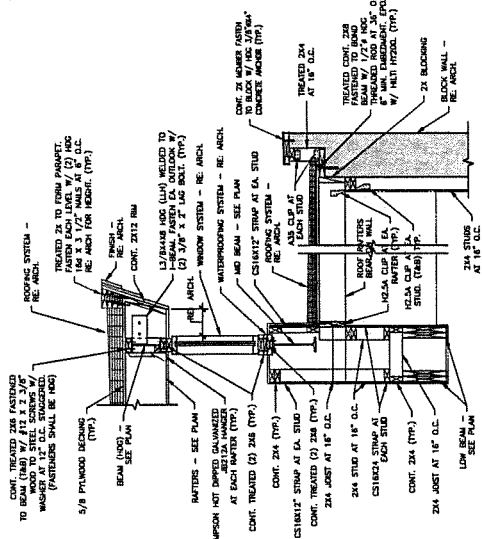


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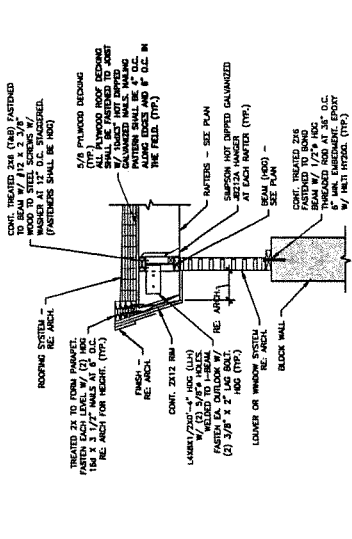
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DATE ISSUED:
12/22/2017

\$5.02
FRAMING DETAILS

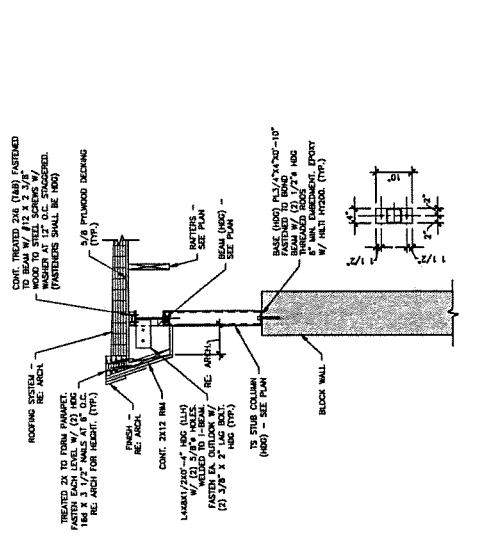
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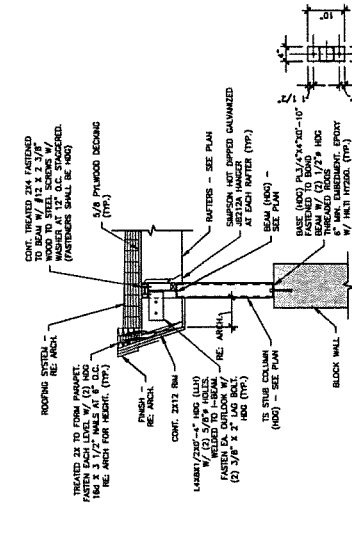
SECTION 1



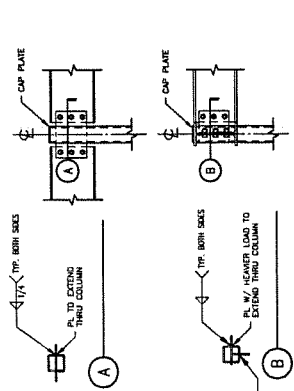
SECTION 2



SECTION 3

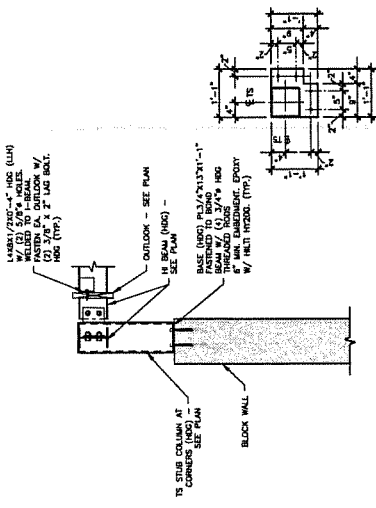


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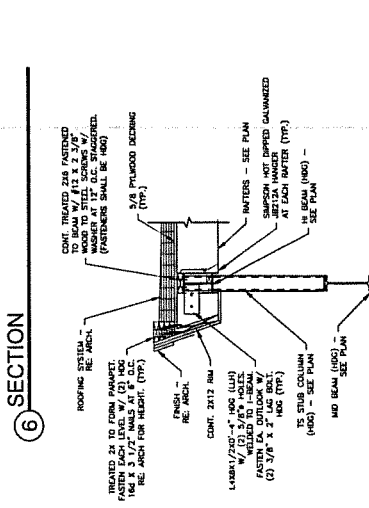


SECTION 5

SECTION 6



SECTION 7



SECTION 8

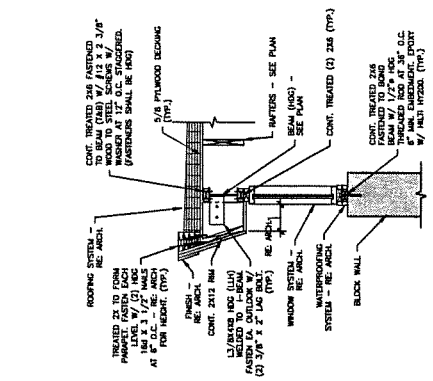


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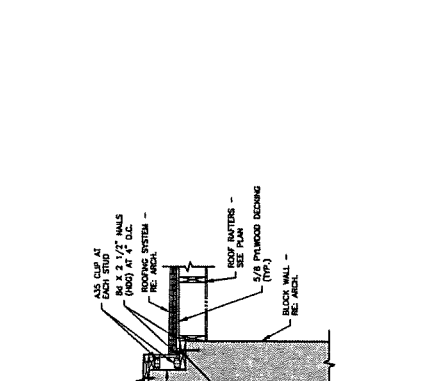
CONSTRUCTION DOCUMENTS
 DATE ISSUED:
 12/22/2017

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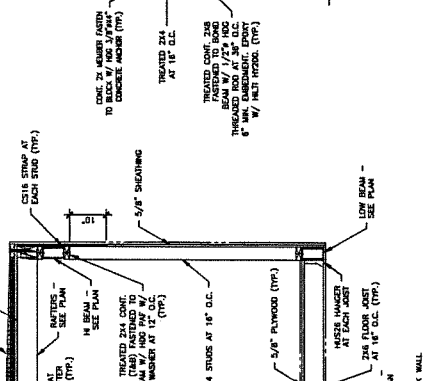
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 SIGNATURE _____ DATE _____



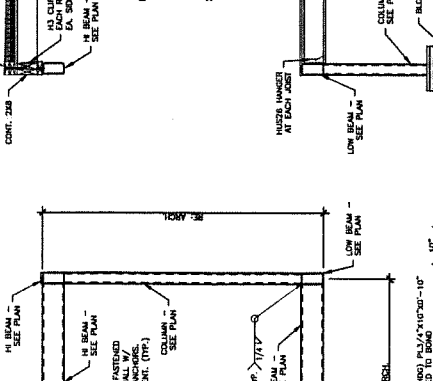
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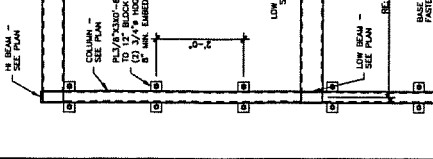
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SECTION 3



SECTION 4



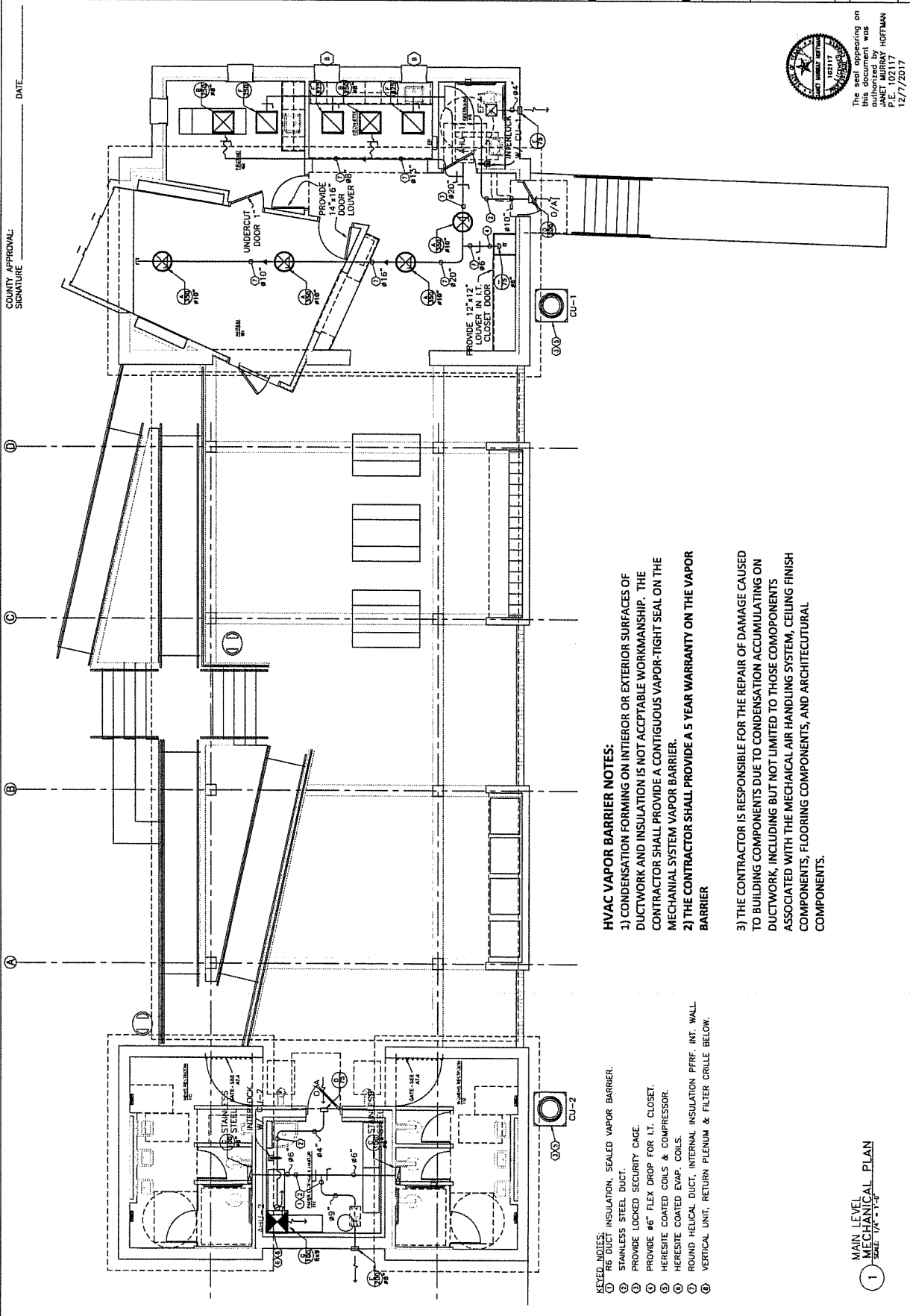
SECTION 5



SECTION 6

SECTION 7

COUNTY APPROVAL: _____ DATE: _____
SIGNATURE: _____



- KEYED NOTES:**
- ① R6 DUCT INSULATION, SEALED VAPOR BARRIER.
 - ② STAINLESS STEEL DUCT.
 - ③ PROVIDE LOCKED SECURITY CAGE.
 - ④ PROVIDE #6" FLEX DROP FOR I.T. CLOSET.
 - ⑤ HERESITE COATED COILS & COMPRESSOR.
 - ⑥ HERESITE COATED EVAP. COILS.
 - ⑦ ROUND HELICAL DUCT, INTERNAL INSULATION, PFRF. INT. WALL.
 - ⑧ VERTICAL UNIT, RETURN PLENUM & FILTER GRILLE BELOW.

- HVAC VAPOR BARRIER NOTES:**
- 1) CONDENSATION FORMING ON INTERIOR OR EXTERIOR SURFACES OF DUCTWORK AND INSULATION IS NOT ACCEPTABLE WORKMANSHIP. THE CONTRACTOR SHALL PROVIDE A CONTIGUOUS VAPOR-TIGHT SEAL ON THE MECHANICAL SYSTEM VAPOR BARRIER.
 - 2) THE CONTRACTOR SHALL PROVIDE A 5 YEAR WARRANTY ON THE VAPOR BARRIER
 - 3) THE CONTRACTOR IS RESPONSIBLE FOR THE REPAIR OF DAMAGE CAUSED TO BUILDING COMPONENTS DUE TO CONDENSATION ACCUMULATING ON DUCTWORK, INCLUDING BUT NOT LIMITED TO THOSE COMPONENTS ASSOCIATED WITH THE MECHAICAL AIR HANDLING SYSTEM, CEILING FINISH COMPONENTS, FLOORING COMPONENTS, AND ARCHITECTURAL COMPONENTS.

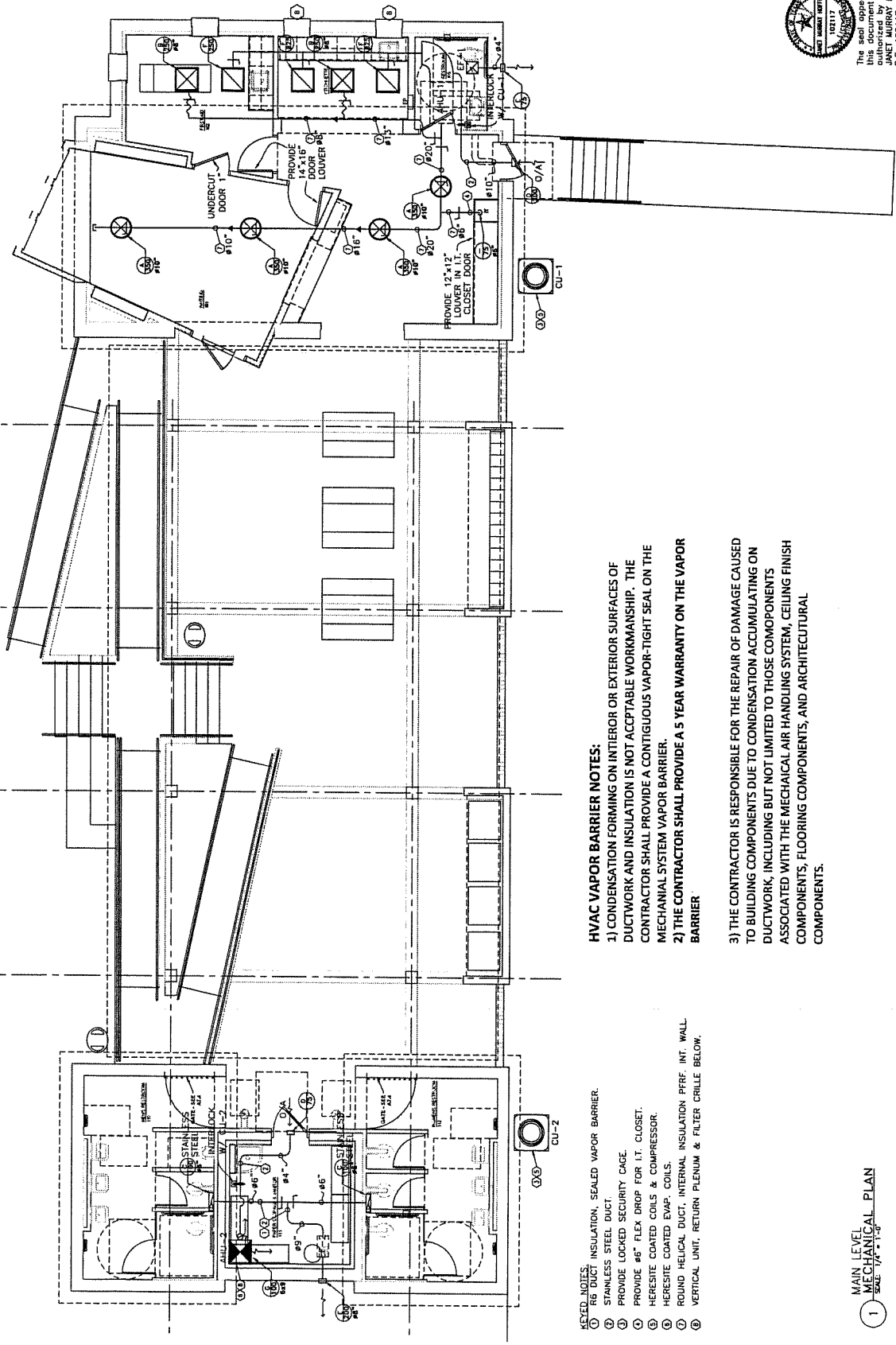
1 MAIN LEVEL MECHANICAL PLAN
SCALE: 1/4" = 1'-0"



The seal appearing on this document was authorized by
DALE W. HOTTMAN
P.E. 102117
12/7/2017

<p>BRAX ESTERWOOD DESIGN 2728 MENKIE O SHUTE 2 EASTERWOOD@BRAX.COM PHONE 409-554-8976 GALVESTON TEXAS 77550</p>	<p>FOR PERMIT</p>	<p>DATE: 12/7/2017 REVISION:</p>	<p>DESIGN DEVELOPMENT</p>	<p>M1.0</p>
<p>GALVESTON COUNTY BEACH PAVILION CRYSTAL BEACH, TX 77650</p>	<p>BR-Mec LLC Project No: C-13-007.01</p>			

COUNTY APPROVAL: _____
SIGNATURE _____ DATE _____



- NOTED NOTES:**
- ① #6 DUCT INSULATION, SEALED VAPOR BARRIER.
 - ② STAINLESS STEEL DUCT.
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1 MAIN LEVEL MECHANICAL PLAN
SCALE: 1/4" = 1'-0"



The seal appearing on this document was authorized by
JEFFERY HOFFMAN
P.E. 102117
12/7/2017

BRAX EASTERWOOD
DESIGN
2728 AVENUE Q SUITE 2
GALVESTON TEXAS 77550
PHONE 409-354-8976
EASTERWOOD@EWA.COM

FOR PERMIT

CONSTRUCTION DOCUMENTS

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M1.0

GALVESTON COUNTY
BEACH PAVILION
CRYSTAL BEACH, TX 77650

BC-Mc LLC Project No : C-13-00701

BRAX EASTERWOOD
ENGINEERING
1111 18th St
Galveston, TX 77550
P.O. Box 1000
Galveston, TX 77550

FANS

MARK	LOCATION	CTN	MAXIMUM RPM (48 V.C.)	50 W 120V/160	LOCALLY SWITCHED BY	INTERLOCKED WITH	FAN TYPE	MANUFACTURER	MODEL NUMBER	REMARKS
BT-1	BATHROOMS	50							GREENHECK	

GENERAL NOTES:
 1. EXTERNAL STATIC PRESSURE INCLUDES LOSSES DUE TO DUCTWORK, AIR DEVICES, DAMPERS, FILTERS, COILS, EXHAUST SYSTEMS, AND AIR HANDLING UNIT. EXTERNAL STATIC PRESSURE LOSS INCREASES INVERSELY AS REQUIRED TO MEET YOUR TOTAL PRESSURE REQUIREMENTS. EXTERNAL STATIC PRESSURE LOSS INCREASES INVERSELY AS REQUIRED TO MEET YOUR TOTAL PRESSURE REQUIREMENTS.
 2. MAXIMUM RECOMMENDED CLEARANCE FROM UNIT IS 12 INCHES ON NON-SERVICE SIDES AND 30 INCHES ON SERVICE SIDES. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO MAINTAIN PROPER AIR FLOW THROUGH THE UNIT. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO MAINTAIN PROPER AIR FLOW THROUGH THE UNIT. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO MAINTAIN PROPER AIR FLOW THROUGH THE UNIT.
 3. FAN SHALL BE CENTRIFUGAL, BELT DRIVE TYPE UNLESS OTHERWISE SPECIFIED.

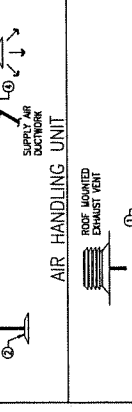
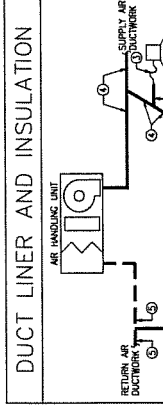
GRILLE

MARK	SERVICE	TYPE	DAMPER	CONSTRUCTION	FINISH	MANUFACTURER	UNITS	REMARKS
B	SUPPLY AIR	DIFFUSER	VOLUME	ALUM.	OFF WHITE	TIDS	PAS	24" x 24" SQUARE FACE, SQUARE CEILING, ROUND NECK, ORB, INSULATED
F	RETURN AIR	GRILLE	-	ALUM.	OFF WHITE	TIDS	PAR	24" x 24" SQUARE FACE, ROUND NECK, ORB, INSULATED
C	SUPPLY AIR	DIFFUSER	VOLUME	ALUM.	OFF WHITE	-	-	WALL INLET DOOR, CORROSION RESISTANT
D	SUPPLY AIR	DIFFUSER	VOLUME	ALUM.	OFF WHITE	-	-	WALL INLET DOOR, CORROSION RESISTANT
E	EXHAUST	DOOR	-	ALUM.	OFF WHITE	-	-	WALL EXHAUST DOOR, CORROSION RESISTANT
A	SUPPLY AIR	DIFFUSER	VOLUME	ALUM.	OFF WHITE	METAL AIRE	3100	CIRCULAR CEILING DIFFUSER, ORB
C	SUPPLY AIR	DIFFUSER	VOLUME	ALUM.	OFF WHITE	H & C	-	WALL DIFFUSER, 1-WAY, ORB

SYMBOL LEGEND

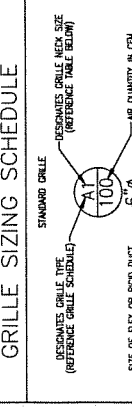
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(2)	NOTE SPECIFIC TO DETAIL TAG	
(3)	REVISION TAG	
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GENERAL NOTES:
 1. ALL WORK AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH THE ARCHITECTURAL PLAN AND ALL APPLICABLE CODES, RULES AND REGULATIONS - DESIGN OF SYSTEM.
 2. PROVIDE AND INSTALL VOLUME DAMPERS IN ALL BRANCH DUCTS.
 3. FLEXIBLE DUCTS TO BE CLASS-FLEX 6"-8", MAXIMUM IN LENGTH, WHERE APPLICABLE.
 4. COORDINATE EXACT LOCATION OF THE FLOOR PLANS ARE CLEAR INSIDE 1/2" DIA. DUCT SIZES SHOWN ON THE FLOOR PLANS ARE CLEAR INSIDE 1/2" DIA. DUCT SIZES.
 5. PROVIDE ACCESS PANEL FOR ALL CONCEALED EQUIPMENT AND VOLUME DAMPERS.
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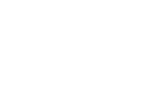
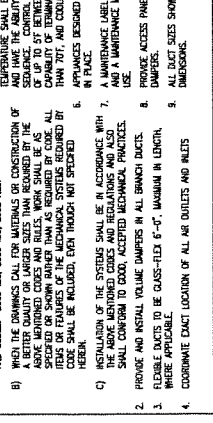
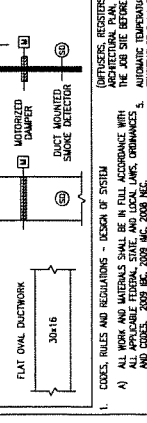
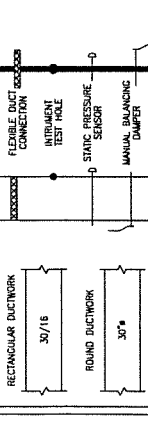
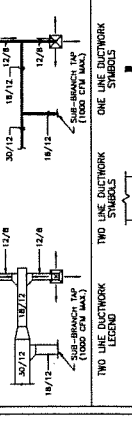
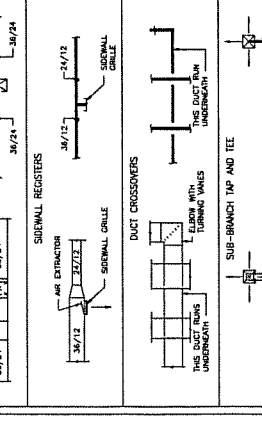
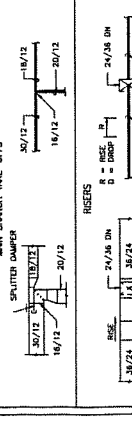
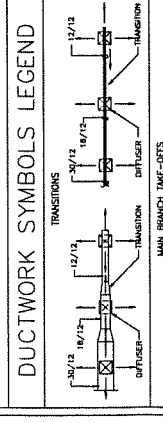
EXHAUST AIR SYSTEMS

NOTES:
 1. EXTERNAL DUCTWORK WITH EXTERNAL DUCTWORK INSULATION AS SPECIFIED.
 2. EXTERNAL INSULATION (MIN. R-8) ON BACK PAN OF RETURN AIR GRILLE.
 3. FLEXIBLE DUCTWORK WITH EXTERNAL DUCTWORK INSULATION.
 4. SHEETMETAL DUCTWORK WITH EXTERNAL DUCTWORK INSULATION (R-8) 1" THICK 1-1/2" JOINTS WITH JOINT REINFORCED ABOUT 1/2" FROM FACING. REFER TO SPECIFICATIONS.
 5. SHEETMETAL DUCTWORK WITH EXTERNAL DUCTWORK INSULATION (R-8) 1" THICK 1-1/2" JOINTS WITH JOINT REINFORCED ABOUT 1/2" FROM FACING. REFER TO SPECIFICATIONS.



GRILLE SIZING SCHEDULE

GRILLE SIZE DESIGNATION	GRILLE NECK SIZE	GRILLE SIZE DESIGNATION	GRILLE NECK SIZE
1	6" x 6"	7	15" x 15"
2	8" x 8"	8	16" x 16"
3	9" x 9"	9	18" x 18"
4	10" x 10"	10	20" x 20"
5	12" x 12"	11	22" x 22"
6	14" x 14"	12	24" x 24"



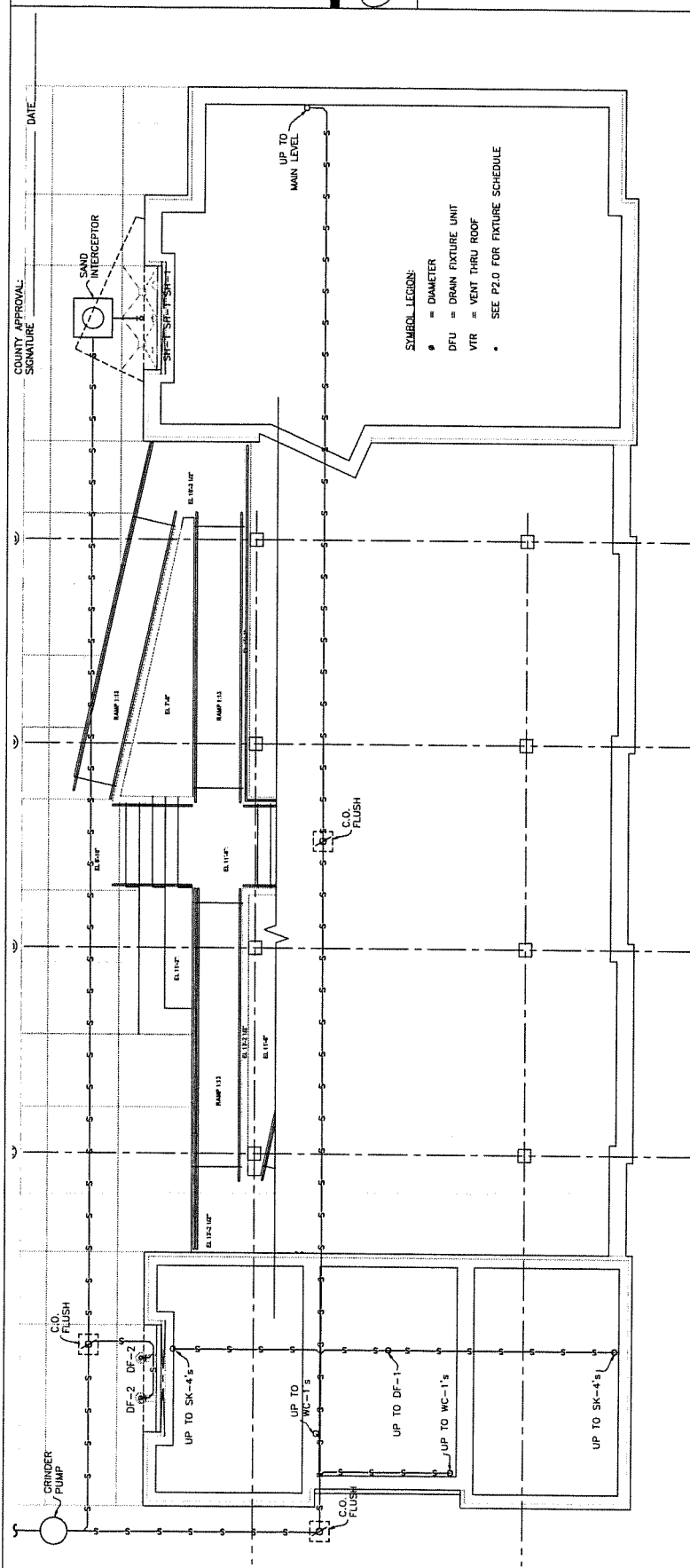
COUNTY APPROVAL: SIGNATURE: DATE: GALVESTON COUNTY BEACH PAVILION CRYSTAL BEACH, TX 77650

1. INSULATION PINS AND HANGERS: INSULATION PINS SHALL BE CORNER AND THIS COATED STEEL PIN, FULLY ANNEALED FOR CAPACITOR-DISCHARGE WELDING TO THE INDICATED PRODUCTS. SUBJECT TO COMPLIANCE WITH REQUIREMENTS, 1. ADA INDUSTRIES, INC., CWP-1.

2. JOHNS MANVILLE MICROFEE. 3. KNIFE INSULATION: FRENDLY FEEL DUCT WRAP. 4. MANSION INSULATION: ICE-ALLEY WRAP. 5. OWENS CORNING: SOFT AL-FIBER SERVICE DUCT WRAP. 6. MINERAL-FIBER ADHESIVE: COMPLY WITH MIL-A-33166, CLASS 2, GRADE 2. PRODUCT SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE ONE OF THE FOLLOWING:

A. GENERAL FABRICATION REQUIREMENTS: COMPLY WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS" - METAL AND FLEXIBLE, BASED ON REQUIRED TYPE. SELECT JOINT TYPES AND FABRICATE ACCORDING TO THE FOLLOWING: 1. TRANSVERSE JOINTS: SELECT JOINT TYPES AND FABRICATE ACCORDING TO SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS" - METAL AND FLEXIBLE. FIGURE 2-1, "RECTANGULAR DUCT TRANSVERSE JOINTS" FOR STATIC-PRESSURE CLASS, APPLICABLE SEALING REQUIREMENTS, MATERIALS INVOLVED, DUCT-SUPPORT INTERVALS, AND OTHER PROVISIONS IN SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS" - METAL AND FLEXIBLE.

A. GENERAL FABRICATION REQUIREMENTS: COMPLY WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS" - METAL AND FLEXIBLE. FIGURE 2-1, "RECTANGULAR DUCT TRANSVERSE JOINTS" FOR STATIC-PRESSURE CLASS, APPLICABLE SEALING REQUIREMENTS, MATERIALS INVOLVED, DUCT-SUPPORT INTERVALS, AND OTHER PROVISIONS IN SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS" - METAL AND FLEXIBLE. 2. LONGITUDINAL SEAMS: SELECT SEAM TYPES AND FABRICATE ACCORDING TO SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS" - METAL AND FLEXIBLE. FIGURE 3-1, "RECTANGULAR DUCT LONGITUDINAL SEAMS" FOR STATIC-PRESSURE CLASS, APPLICABLE SEALING REQUIREMENTS, MATERIALS INVOLVED, DUCT-SUPPORT INTERVALS, AND OTHER PROVISIONS IN SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS" - METAL AND FLEXIBLE.



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SYMBOL LEGEND:
 ○ = DIAMETER
 DFU = DRAIN FIXTURE UNIT
 VTR = VENT THRU ROOF
 . = SEE P2.0 FOR FIXTURE SCHEDULE

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GALVESTON COUNTY

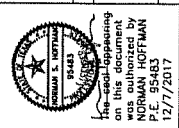
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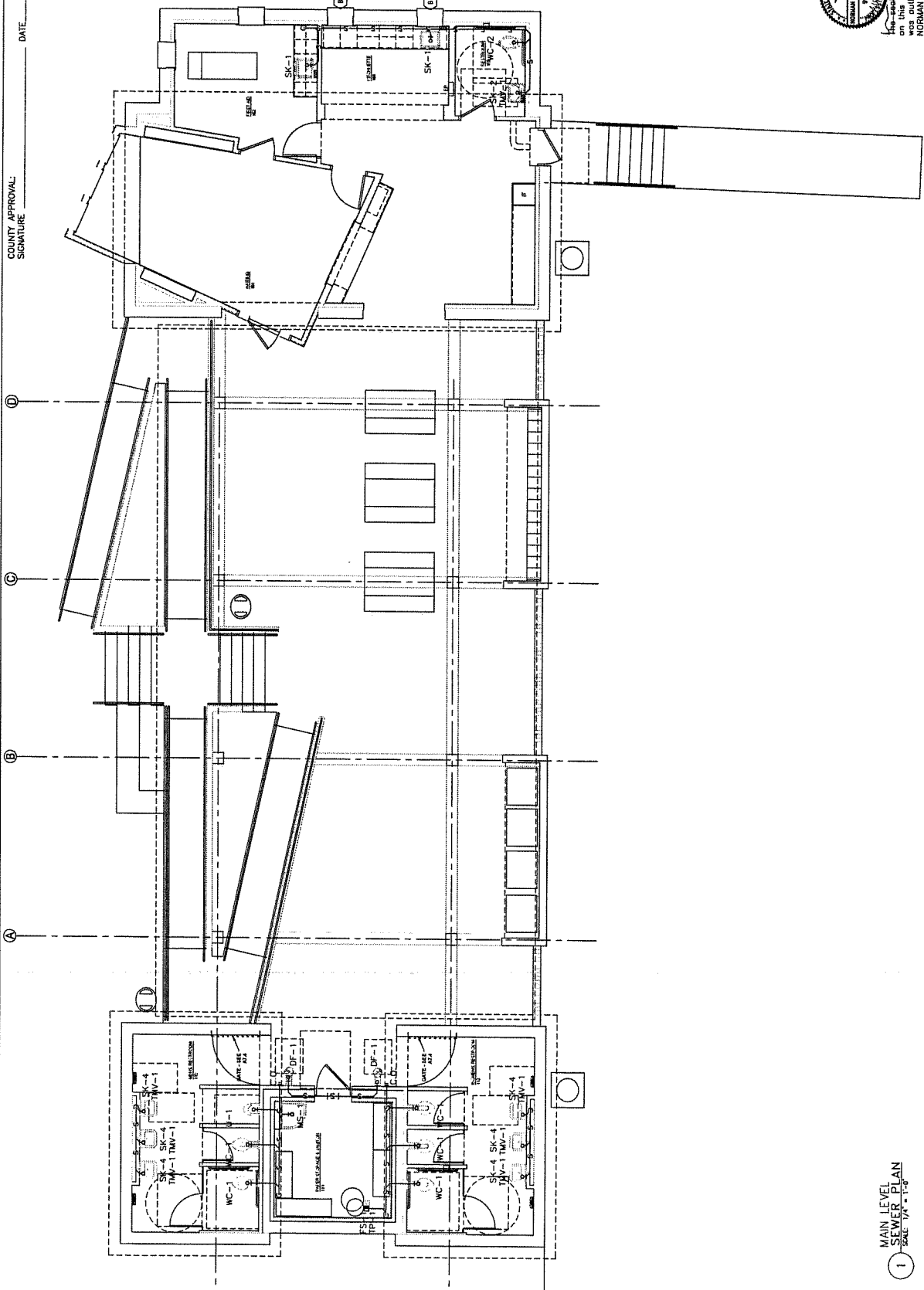
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I hereby certify that the design on this application was prepared by me or under my direct supervision and was authorized by me.
NORMAN HOFFMAN
 P.E. 12,954BS
 12/7/2017

LOWER LEVEL PLUMBING PLAN
 SCALE: 1/4" = 1'-0"

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PHONE 409-354-8978

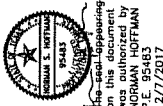
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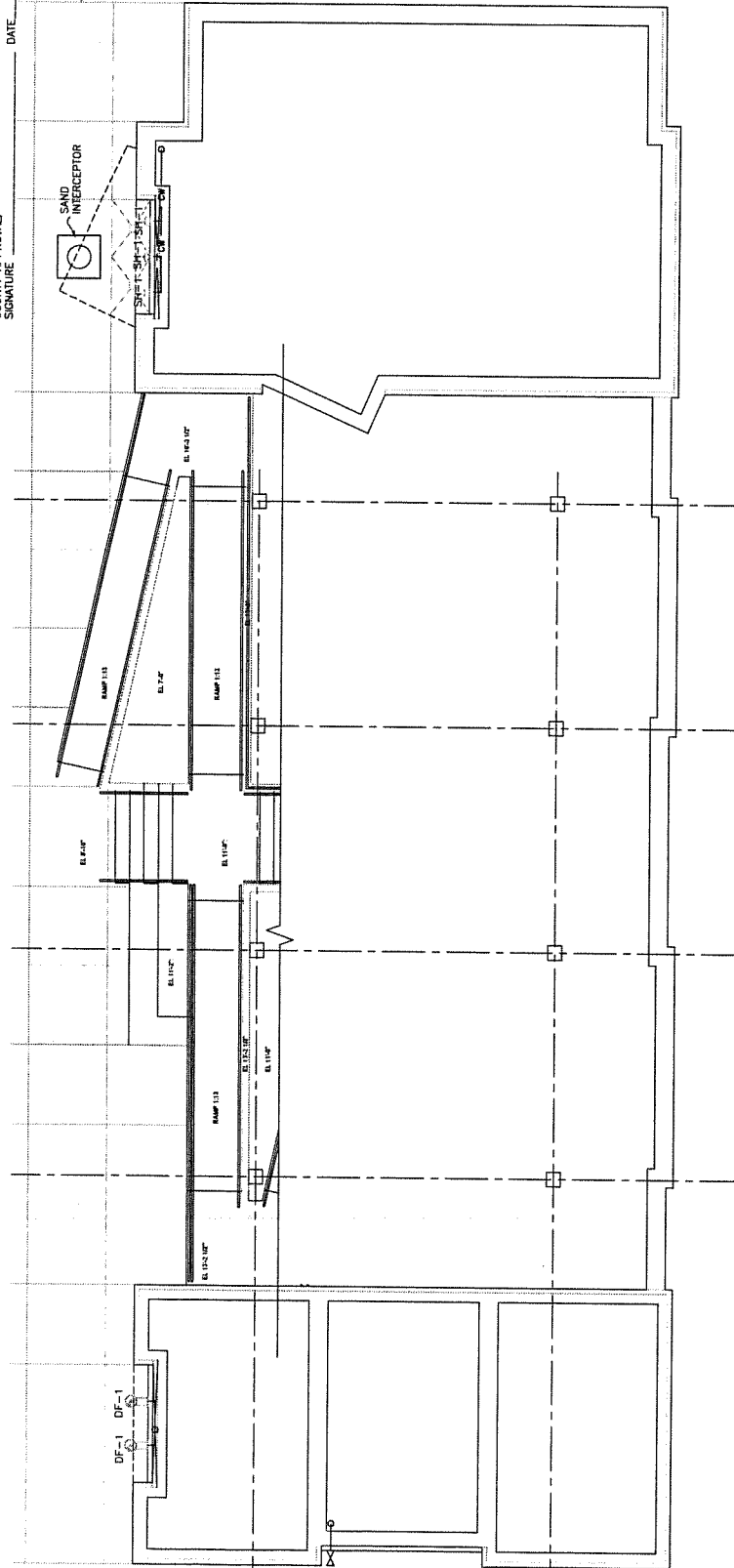
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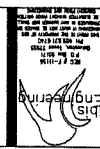
I, the undersigned, appearing on this document, was authorized by NORMAN HOFFMAN License No. 95483 12/7/2017

1 MAIN LEVEL SEWER PLAN
SCALE: 1/4" = 1'-0"

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GALVESTON COUNTY
BEACH PAVILION
CRYSTAL BEACH, TX 77650



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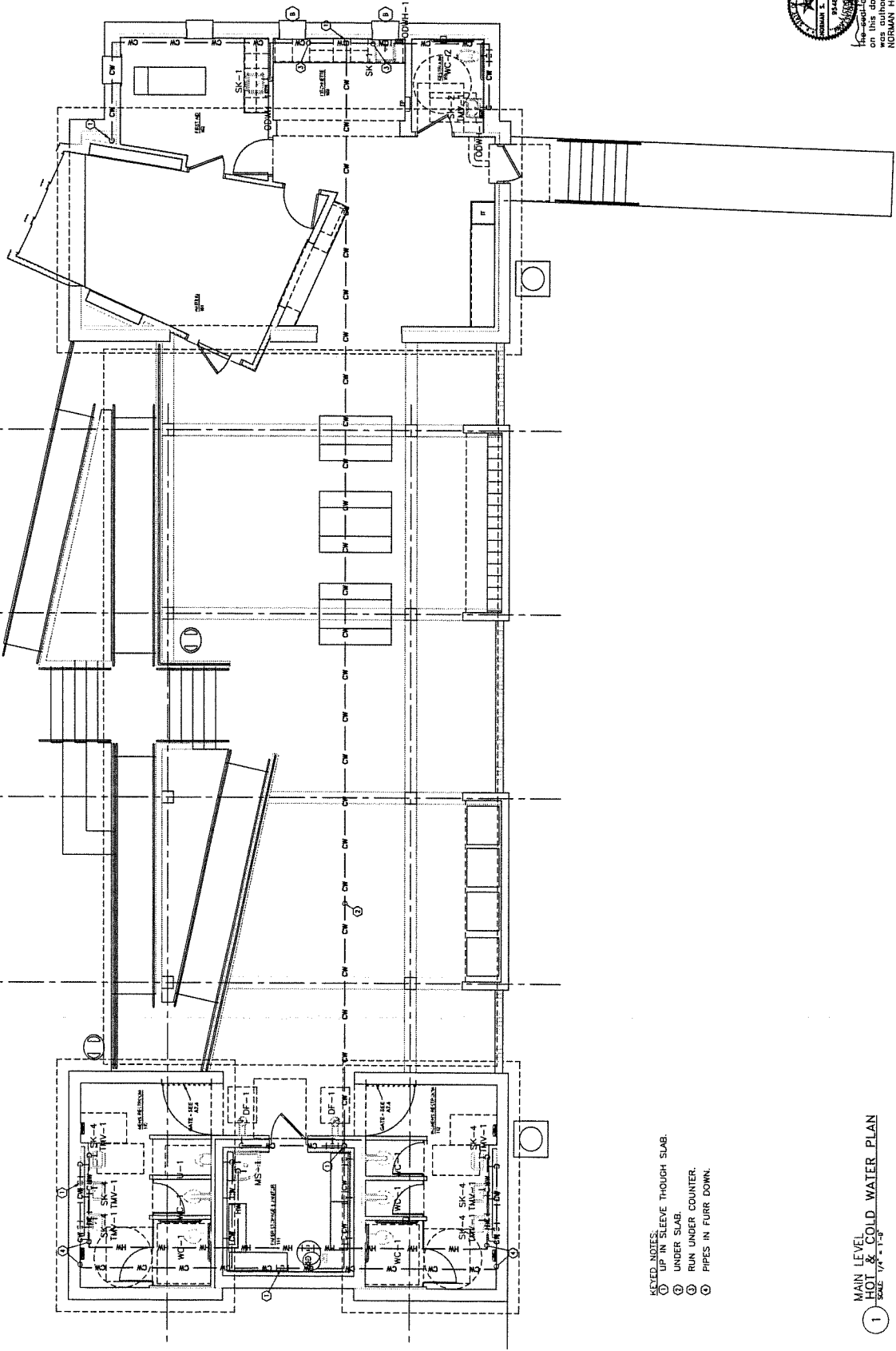
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1 LOWER LEVEL
HOT & COLD WATER PLAN
SCALE 1/4" = 1'-0"

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- KEYED NOTES:
- ① UP IN SLEEVE THROUGH SLAB.
 - ② UNDER SLAB.
 - ③ RUN UNDER COUNTER.
 - ④ PIPES IN FURR DOWN.

1 MAIN LEVEL
HOT & COLD WATER PLAN
SCALE: 1/4" = 1'-0"

**GALVESTON COUNTY
BEACH PAVILION
CRYSTAL BEACH, TX 77650**

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Professional Engineer
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12/7/2017

For Residential and Commercial Applications

Model No. _____
 Catalog _____
 Approval _____
 Customer P.O. No. _____
 Representative _____

LEAD FREE Series LFUG-B Under Sink Guardian®

The LFUG-B is a lead-free under sink water filter designed to protect drinking water from lead contamination. It is designed to be installed on the cold water line under the sink. The LFUG-B is made of a special plastic material that is lead-free and does not contain any lead. It is designed to last for many years and does not require any maintenance. The LFUG-B is available in two sizes: 1/2" and 3/4". It is designed to fit under most sinks and is easy to install. The LFUG-B is a great way to protect your drinking water from lead contamination. It is a simple and effective way to ensure that your water is safe to drink.

Features:

- Made of lead-free plastic material
- Does not contain any lead
- Designed to last for many years
- Does not require any maintenance
- Available in two sizes: 1/2" and 3/4"
- Fits under most sinks
- Easy to install

Applications:

- Drinking water
- Cold water line
- Under the sink

Dimensions:

- 1/2" LFUG-B: 1 1/2" x 1 1/2" x 1 1/2"
- 3/4" LFUG-B: 2 1/4" x 2 1/4" x 2 1/4"

Pressure - Temperature:

- Pressure: 15-100 PSI
- Temperature: 40-100°F

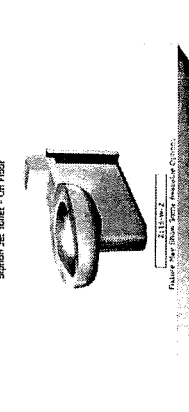
Flow Rate:

- 1/2" LFUG-B: 1.5 GPM
- 3/4" LFUG-B: 3.0 GPM

WARRANTY:

The LFUG-B is warranted to be free from defects in material and workmanship for a period of 5 years from the date of purchase. This warranty is void if the LFUG-B is used for any purpose other than drinking water.

Dura-Ware® 2115 Series Siphon Jet Toilet - On Floor



The Dura-Ware 2115 Series Siphon Jet Toilet is a high-quality toilet designed for residential and commercial applications. It features a siphon jet action that provides a powerful flush. The toilet is made of a durable material that is resistant to stains and odors. It is designed to be easy to clean and maintain. The Dura-Ware 2115 Series Siphon Jet Toilet is a great choice for anyone looking for a reliable and long-lasting toilet.

Dimensions:

- Overall Height: 31 1/2"
- Overall Width: 16 1/2"
- Overall Depth: 16 1/2"

Flow Rate:

- 1.6 GPM

Pressure - Temperature:

- Pressure: 15-100 PSI
- Temperature: 40-100°F

The Dura-Ware 2115 Series Siphon Jet Toilet is designed to be installed on a finished wall from the front. It is manufactured from 18-gauge steel with a stainless steel rim and a stainless steel seat. The toilet is designed to be easy to clean and maintain. It is a great choice for anyone looking for a reliable and long-lasting toilet. The Dura-Ware 2115 Series Siphon Jet Toilet is a great choice for anyone looking for a reliable and long-lasting toilet.

WARRANTY:

The Dura-Ware 2115 Series Siphon Jet Toilet is warranted to be free from defects in material and workmanship for a period of 5 years from the date of purchase. This warranty is void if the toilet is used for any purpose other than residential or commercial applications.

Best Construction

Flow Capacity

Flow Rate (GPM)	Pressure (PSI)
1.0	15
1.5	20
2.0	25
2.5	30
3.0	35
3.5	40
4.0	45
4.5	50
5.0	55
5.5	60
6.0	65
6.5	70
7.0	75
7.5	80
8.0	85
8.5	90
9.0	95
9.5	100

Dimensions - Weights

Model	Weight (lbs)	Height (in)	Width (in)	Depth (in)
2115-1/2	15	31 1/2	16 1/2	16 1/2
2115-3/4	30	31 1/2	16 1/2	16 1/2

Typical Installations

WATTS

100 Years of Innovation

Dura-Ware® 2115 Series Siphon Jet Toilet - On Floor

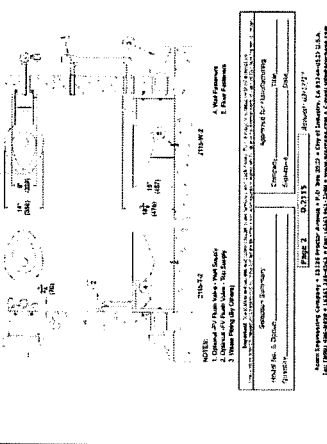
WATTS has designed this toilet to be easy to install and maintain. It is a great choice for anyone looking for a reliable and long-lasting toilet. The Dura-Ware 2115 Series Siphon Jet Toilet is a great choice for anyone looking for a reliable and long-lasting toilet.

Options:

- 1/2" LFUG-B
- 3/4" LFUG-B
- 1.6 GPM
- 18-gauge steel
- Stainless steel rim
- Stainless steel seat

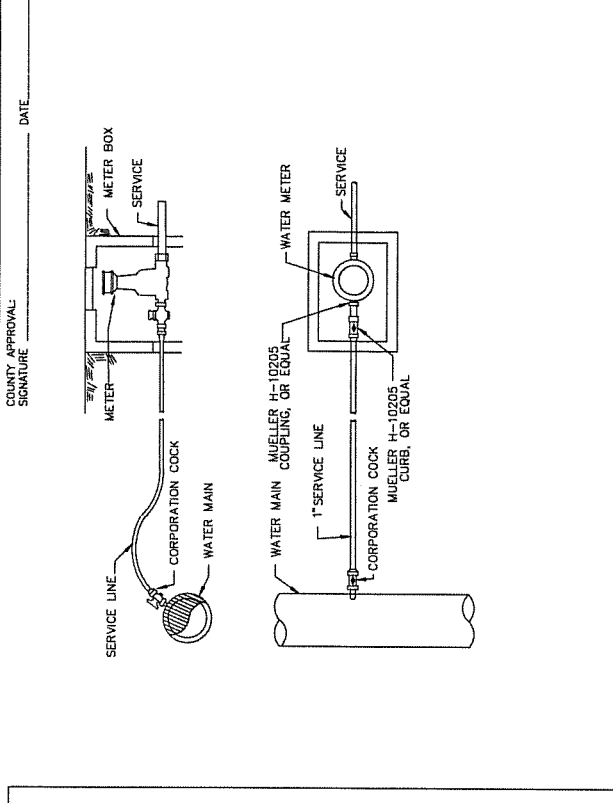
WARRANTY:

The Dura-Ware 2115 Series Siphon Jet Toilet is warranted to be free from defects in material and workmanship for a period of 5 years from the date of purchase. This warranty is void if the toilet is used for any purpose other than residential or commercial applications.



WATTS

100 Years of Innovation



WATTS

100 Years of Innovation

WATTS

100 Years of Innovation

WATTS

100 Years of Innovation

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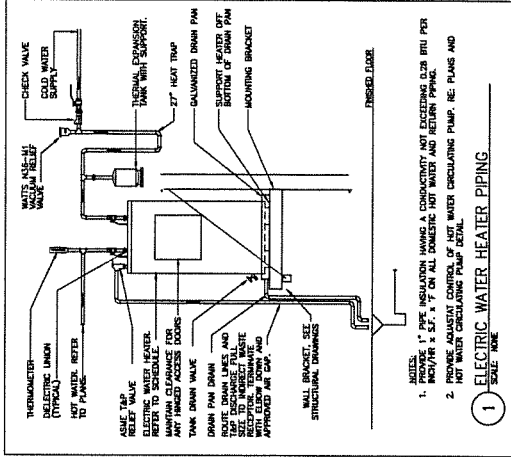
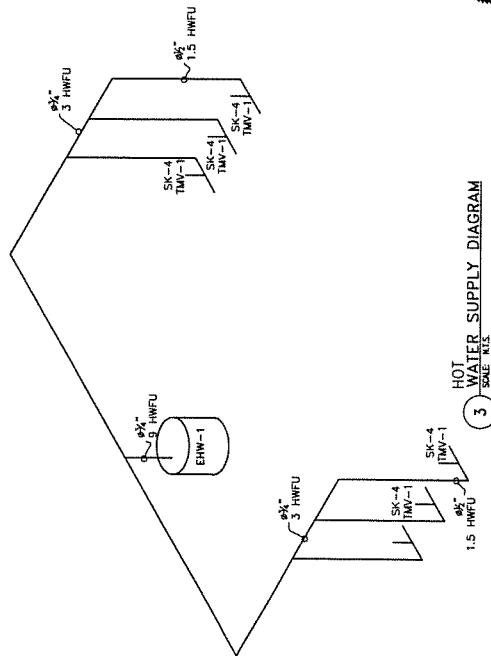
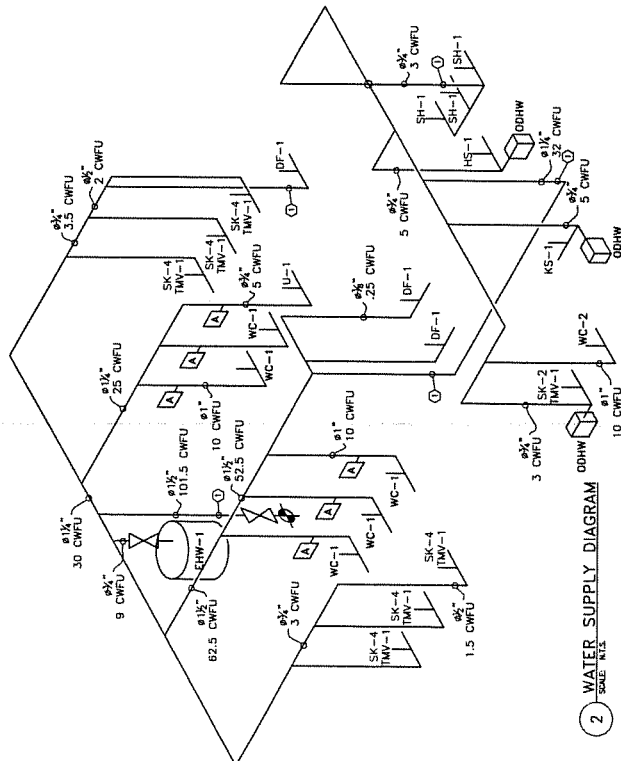
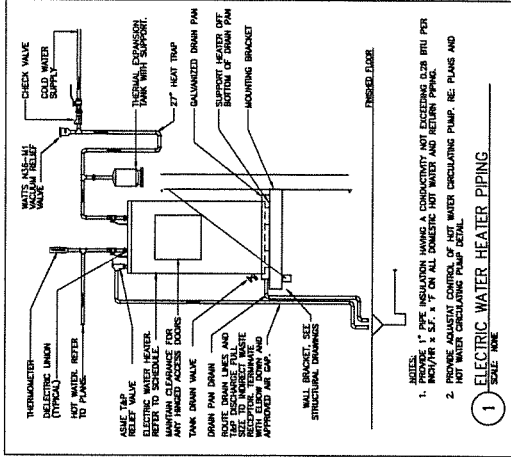
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 GALVESTON COUNTY
 BEACH PAVILION
 CRYSTAL BEACH, TX 77650

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BEACH PAVILION
CRYSTAL BEACH, TX 77650

BE-Arg LLC Project No: C-13-00701

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 P.E. 95483
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FIXTURE VENTS

2009 IPC, TABLE 906.1
DISTANCE OF FIXTURE TRAP FROM VENT

MAXIMUM FIXTURE UNITS ALLOWED PER SLOPE	SIZE OF FIXTURE DRAIN (IN.)	SIZE OF FIXTURE TRAP (IN.)	SLOPE (M/F)	DISTANCE FROM TRAP (FT)
1	1 1/2"	1 1/2"	1/4"	5'
2	1 1/2"	1 1/2"	1/4"	5'
3	1 1/2"	1 1/2"	1/4"	5'
4	1 1/2"	1 1/2"	1/4"	5'
5	1 1/2"	1 1/2"	1/4"	5'
6	1 1/2"	1 1/2"	1/4"	5'
7	1 1/2"	1 1/2"	1/4"	5'
8	1 1/2"	1 1/2"	1/4"	5'
9	1 1/2"	1 1/2"	1/4"	5'
10	1 1/2"	1 1/2"	1/4"	5'

FIXTURE WATER SUPPLY PIPES

2009 IPC, TABLE 906.5

MINIMUM SIZE OF FIXTURE WATER SUPPLY PIPES	MINIMUM PIPE SIZE (IN.)
BATH	1/2"
KITCHEN SINK	1/2"
LAUNDRY	1/2"
SKINER	1/2"
WATER CLOSET, FLUSH TANK	1/2"

SANITARY SEWER

2009 IPC, TABLE 710.1(1)
BUILDING DRAINAGE AND SEWERS

MAXIMUM FIXTURE UNITS ALLOWED PER SLOPE (INCL. BRANCHES)	PIPE DIA. (IN.)	PER. FT.	1/4" PER. FT.	1/2" PER. FT.
1	1 1/2"	1/8"	1/4"	1/2"
2	1 1/2"	1/8"	1/4"	1/2"
3	1 1/2"	1/8"	1/4"	1/2"
4	1 1/2"	1/8"	1/4"	1/2"
5	1 1/2"	1/8"	1/4"	1/2"
6	1 1/2"	1/8"	1/4"	1/2"
7	1 1/2"	1/8"	1/4"	1/2"
8	1 1/2"	1/8"	1/4"	1/2"
9	1 1/2"	1/8"	1/4"	1/2"
10	1 1/2"	1/8"	1/4"	1/2"

SANITARY SEWER

2009 IPC, TABLE 710.1(1)
HORIZONTAL FIXTURE BRANCHES AND STACKS

MAXIMUM FIXTURE UNITS	PIPE DIA. (IN.)	STACK	BRANCH	STACK
1	1 1/2"	1 1/2"	1 1/2"	1 1/2"
2	1 1/2"	1 1/2"	1 1/2"	1 1/2"
3	1 1/2"	1 1/2"	1 1/2"	1 1/2"
4	1 1/2"	1 1/2"	1 1/2"	1 1/2"
5	1 1/2"	1 1/2"	1 1/2"	1 1/2"
6	1 1/2"	1 1/2"	1 1/2"	1 1/2"
7	1 1/2"	1 1/2"	1 1/2"	1 1/2"
8	1 1/2"	1 1/2"	1 1/2"	1 1/2"
9	1 1/2"	1 1/2"	1 1/2"	1 1/2"
10	1 1/2"	1 1/2"	1 1/2"	1 1/2"

WATER CONSERVATION

2009 IPC, TABLE 604

MAXIMUM WATER USAGE PER FIXTURE	PRIVATE WATER CLOSURES	PRIVATE SINKS/FAUCETS	SHOWERS
2.0 GPM AT 60 PSI	1.0 GPM AT 60 PSI	2.2 GPM AT 60 PSI	2.5 GPM AT 60 PSI

WATER CONSERVATION

2009 IPC, TABLE 604

MAXIMUM WATER USAGE PER FIXTURE	PRIVATE WATER CLOSURES	PRIVATE SINKS/FAUCETS	SHOWERS
2.0 GPM AT 60 PSI	1.0 GPM AT 60 PSI	2.2 GPM AT 60 PSI	2.5 GPM AT 60 PSI

NOTE: VERIFY WATER PRESSURE AT BUILDING ENTRANCE AND INSTALL PRESSURE REDUCING VALVE TO LIMIT 80 PSI PER IPC 604.8. WATER PRESSURE SHALL BE VERIFIED BY PROVIDING A MINIMUM OF 15 PSI AT THE BEST FIXTURE AVAILABLE.

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REQUIREMENTS

- PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL ALL HOT AND COLD WATER PIPING SYSTEMS, DRAINAGE, WASTE, AND VENT PIPING SYSTEMS, FIXTURES AND METAL CONNECTIONS.
- PROVIDE A SET OF AIR CHARGERS AT ALL WATER CLOSET TANKS, BACK FLOW PREVENTORS SHALL BE PROVIDED WHERE SHOWN ON THE DRAWINGS AND AS REQUIRED BY CODE.
- CUTOFF VALVES, STOPS, SHALL BE PROVIDED WHERE SHOWN ON DRAWINGS AND AT ALL FIXTURE CONNECTIONS. CLEAN OUTS SHALL BE PROVIDED AS REQUIRED BY CODE AND AS SHOWN ON THE DRAWINGS.
- CONDENSATE DRAIN LINES SHALL BE MINIMUM 3/4" WITH TRAP, INSULATE 1ST 10'-0" OF CONDENSATE DRAIN WITH 1/2" INSULATION.
- TEST ALL WATER SYSTEMS IN PRESENCE OF OWNER'S REPRESENTATIVE AT MINIMUM 100 PSI FOR 8 HOURS. SANITARY, WASTE AND VENTS SHALL BE TESTED WITH CLEAN OUT OF WATER FOR 8 HOURS WITH LEVEL OF WATER TO REMAIN UNCHANGED.
- MECHANICAL SPRING SYSTEMS SO THAT THEY WILL NOT BE SUBJECT TO ANY UNUSUAL STRESS OR STRESSING AND PROVISIONS SHALL BE MADE FOR A MINIMUM OF 5' SAND FILL AROUND ALL UNDERGROUND PIPES.
- SMITZ/FLUSH DOMESTIC WATER SYSTEM PER STATE STANDARDS. CHECK WATER PRESSURE AVAILABLE AT SITE AND INSTALL PRESSURE REDUCER IF REQUIRED TO LIMIT 80 PSI AT BUILDING ENTRANCE.
- ALL WATER PIPING AND TRAPS IN EXTERIOR WALLS AND IN PLENUM SPACE SHALL BE INSULATED WITH MIN. 1" AMPLIFLEX VAPOR SHIELD INSULATION.
- CONFIRM ALL TRAPS ARE FULL OF WATER AFTER INSTALLATION.
- ALL PENETRATIONS THROUGH FIRE RATED WALLS AND FLOOR CEILING ASSEMBLIES SHALL BE INSTALLED AND SEALED TO MAINTAIN FIRE RATING WITH U.L. LISTED PRODUCTS AND SEALANTS. VERIFY ACTUAL REQUIREMENTS WITH LOCAL BUILDING OFFICIAL.
- UNIONS SHALL BE INSTALLED IN THE WATER SUPPLY PIPING WITHIN 12" OF COPPER WATER TUBE WITHOUT COPPER FITTINGS, ANSI B16.22. SOLDER MATERIAL WHICH MAY REQUIRE SERVICE BY REMOVAL OR REPLACEMENT IN A MANNER WHICH WILL FACILITATE ITS READY REMOVAL.
- USE PROSET FRESTOP WASHER/REFRIGERATOR BOX DESIGN PS/PV 120-08 IN RATED WALLS.
- WATER PIPING INSIDE THE BUILDING SHALL BE SEAMLESS ASTM B 88 TYPE L COPPER WATER TUBE WITHOUT COPPER FITTINGS, ANSI B16.22. SOLDER MATERIAL IS NOT PERMITTED.
- WATER PIPING BELOW SLAB SHALL BE ASTM B 88 TYPE K COPPER WATER TUBE WITH WROUGHT COPPER FITTINGS, ANSI B16.22. ALL JOINTS SHALL BE BRAZED, CONFORMING TO ASTM D-2865 WITH SOLVENT WELDED JOINTS.
- VENT PIPING SHALL BE CAST IRON. DRAIN PIPING IN PLENUM SHALL BE CAST IRON OR COPPER.

THERMOSTATIC MIXING VALVES

ITEM NO.	DESCRIPTION	MINIMUM DESIGN PRESSURE (PSI)	MAXIMUM DESIGN PRESSURE (PSI)	MANUFACTURER / MODEL NO.
TM-1	140°	110°	0.3	BRONZE THERMOSTATIC MIXING VALVE 7-150-COK
TM-2	140°	110°	7	ROUGH BRONZE SE-370

WATER HAMMER DAMPERS

SHAPE / SIZE	PIPING LINES	CHAMBER LENGTH	SEAL CONNECTION
□	1-11"	8-11/4"	1/2"

NOTES:
1. MAKE WATER CONNECTIONS TO THERMOSTATIC MIXING VALVES IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
2. PROVIDE PPE INCREASERS AND/OR VALVES AS REQUIRED.

COUNTY APPROVAL SIGNATURE _____ DATE _____

PLUMBING GENERAL NOTES

- REFER TO CIVIL DRAWINGS FOR CONTINUATION OF DOMESTIC WATER, FIRE PROTECTION WATER, AND SANITARY WASTE UTILITIES.
- REFER TO CIVIL DRAWINGS FOR SIZE AND LOCATION OF DOMESTIC WATER METER ON SITE.
- REFER TO ARCHITECTURAL/CIVIL DRAWINGS FOR BUILDING FINISHED FLOOR ELEVATION.
- FIELD VERIFY EXACT LOCATION, SIZE, DEPTH, DIRECTION OF FLOW, CAPACITY, PIPE SIZES, AND MATERIALS FOR ALL WATER, WASTE, AND VENT PIPING. VERIFY ALL CONNECTIONS TO WATER, WASTE, AND SANITARY WASTE PIPING PRIOR TO BEGINNING CONSTRUCTION TO ENSURE THAT PROPER CONNECTIONS TO AND EXTENSION OF SUCH UTILITIES CAN BE MADE.
- INVERT ELEVATIONS LISTED ARE APPROXIMATE. PRIOR TO CONSTRUCTION, COORDINATE WITH THE ARCHITECT FOR THE LOCATIONS AS REQUIRED TO ENSURE PROPER CONNECTIONS TO SITE UTILITIES.
- PRIOR TO BEGINNING CONSTRUCTION, COORDINATE PLUMBING BACKFLOW PREVENTION REQUIREMENTS WITH THE LOCAL CODE AUTHORITY AND PROVIDE AS DIRECTED.
- CONTRACTOR SHALL COORDINATE ROUTING OF PIPING IN CEILING SPACES WITH MECHANICAL AND ELECTRICAL EQUIPMENT, DUCTWORK AND CONDUIT. SHOULD A CONFLICT OCCUR, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO INSTALLING AN ALTERNATE PIPING PLAN.
- MAINTAIN MINIMUM 12'-0" DISTANCE BETWEEN VENT TERMINALS THROUGH ROOF AND ALL FRESH AIR INTAKES.
- COORDINATE ALL FIXTURE AND EQUIPMENT LOCATIONS AND CONNECTIONS WITH ARCHITECTURAL DRAWINGS AND MANUFACTURER RECOMMENDATIONS PRIOR TO ANY ROUGH-INS.
- DO NOT ROUGH-IN FROM THESE DRAWINGS. REFER TO LATEST ARCHITECTURAL DRAWINGS FOR DIMENSIONED LOCATIONS.
- CONTRACTOR TO COORDINATE ALL WORK WITH THE WORK OF OTHER TRADES TO AVOID CONFLICTS AND TO MINIMIZE INTERRUPTION OF SERVICES.
- ALL WORK, METHODS AND INSTALLATIONS INCLUDED IN THE PLUMBING DESIGN SHALL BE IN ACCORDANCE WITH THE CITY BUILDING CODE AND INSPECTION REGULATIONS AND ALL OTHER OFFICIALS HAVING JURISDICTION.
- UPON COMPLETION OF WORK, THOROUGHLY ROD OUT AND FLUSH ALL SANITARY PIPING TO ENSURE IT IS FREE FROM BLOCKAGES.

GENERAL CONDITIONS

- ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE GOVERNING LOCAL, STATE AND NATIONAL CODE AS THE MINIMUM REQUIREMENT, WHETHER OR NOT SPECIFIED ON DRAWINGS. DRAWINGS SHALL CONTROL WHERE A LARGER SIZE, QUANTITY, OR MATERIAL IS SPECIFIED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE FOLLOWING. CONTRACTOR SHALL MEAN THE CONTRACTOR INSTALLING WORK UNDER THIS DIVISION OF THE WORK.
- DRAWINGS ARE DIAGNOSTIC IN NATURE AND DO NOT SHOW EVERY REQUIRED MISCELLANEOUS DETAILS, SUPPORT, FITTINGS, ETC. FURNISH AND INSTALL ALL MATERIALS AND EQUIPMENT AS REQUIRED FOR THE PROPER SEQUENCE OF CONSTRUCTION. VERIFY AND INSTALL WITHIN INTENDED SPACE REQUIREMENTS WITH PROVISIONS FOR ACCESS FOR SERVICE AND REMOVAL.
- COORDINATE INSTALLATION WITH OTHER TRADES TO ASSURE INSTALLATION OF MATERIALS AND EQUIPMENT AS REQUIRED FOR THE PROPER SEQUENCE OF CONSTRUCTION. VERIFY AND INSTALL WITHIN INTENDED SPACE REQUIREMENTS WITH PROVISIONS FOR ACCESS FOR SERVICE AND REMOVAL.
- CONTRACTOR SHALL INSPECT THE SITE AND BE INFORMED OF THE CONDITIONS BEFORE BEGINNING WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE FAILURE TO USE MANUFACTURER'S INSTRUCTIONS AND TO OBTAIN THE WORK AS REQUIRED AND DIRECTED BY LOCAL UTILITY COMPANIES STANDARDS.
- ALL WORK SHALL BE INSTALLED IN THE FIRST CLASS MANNER CONSISTENT WITH INDUSTRY STANDARDS. MATERIALS OR EQUIPMENT WHICH DO NOT PRESENT A REASONABLY NEAT OR WORKMANLIKE APPEARANCE MAY BE DIRECTED BY THE ARCHITECT TO BE REMOVED AND REPLACED AT NO ADDITIONAL COST.
- FURNISH 6 COPIES OF BROCHURES/SHOP DRAWINGS FOR APPROVAL PRIOR TO CONSTRUCTION. FURNISH 6 COPIES OF "AS-BUILT" RECORD DRAWINGS, AND INSTRUCT OWNER IN THE OPERATION OF ALL EQUIPMENT.
- ALL MISCELLANEOUS WORK SUCH AS EXCAVATION, BACKFILL, CONCRETE, PAINT, SLEEVES, ETC. REQUIRED TO PERFORM WORK UNDER THE DIVISION SHALL BE OBTAINED AND INSTALLED BY THE CONTRACTOR OR THIS DIVISION OF WORK. OBTAIN ALL NECESSARY PERMITS, LICENSES, AND CERTIFICATES REQUIRED FOR WORK UNDER THIS SECTION.
- ALL WORK SHALL BE GUARANTEED AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF (1) YEAR BEYOND FINAL ACCEPTANCE IN A FORM ACCEPTABLE TO THE ARCHITECT. GUARANTEE SHALL INCLUDE CORRECTIONS OR REPLACEMENT OF DAMAGE OR REPLACEMENT TO OTHERS WORK OR MATERIALS CAUSED BY WORK UNDER THIS DIVISION.

PLUMBING LEGEND

SYMBOL	DESCRIPTION
—	1" STEEL
—	1/2" STEEL
—	1/4" STEEL
—	1/2" GALV. STEEL
—	1/4" GALV. STEEL
—	1/2" COPPER
—	1/4" COPPER
—	1/2" BRASS
—	1/4" BRASS
—	1/2" ALUMINUM
—	1/4" ALUMINUM
—	1/2" PEX
—	1/4" PEX
—	1/2" PVC
—	1/4" PVC
—	1/2" CPVC
—	1/4" CPVC
—	1/2" HDPE
—	1/4" HDPE
—	1/2" PP-R
—	1/4" PP-R
—	1/2" PE-RT
—	1/4" PE-RT
—	1/2" ABS
—	1/4" ABS
—	1/2" PVC-U
—	1/4" PVC-U
—	1/2" HDPE
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PLUMBING FIXTURE SPECIFICATION

DATE: _____
 APPROVAL: _____
 SIGNATURE: _____

<p>HS-1 DUKE MANUFACTURING, WALL MOUNTED, 10" X 14" X 6" CHROME PLATED BRASS DECK MOUNTED FAUCET WITH 5" 1/2" CENTER TO CENTER, QUARTER TURN OPERATING CARTRIDGES, V-ANDAL PROOF AERATOR, CHICAGO MODEL 404-31703-E12V1PCT 2.2 GPM</p> <p>STRAINER: CHROME PLATED BRASS GRID STRAINER WITH 6" LONG 1/2" GAUGE 1-1/4" TAILPIECE WITH LOCK NUT, CHICAGO 157-ACP</p> <p>P-TRAP: 1-1/4" CHROME PLATED CAST BRASS TRAP WITH CLEANOUT AND GROUND JOINT ELBOW AND SLIP NUTS, 1-1/4" CHROME PLATE CLEANOUT NUT TO WALL WITH ESCUTCHEON PLATE, MCGUIRE 888 AND 1127</p> <p>SUPPLIES: 1/2" 1/8" S. X 3/8" O.D. CHROME PLATED LOOSE KEY STOP VALVE W/ ESCUTCHEON AND 3/4" COMPRESSION CHROME PLATED FLEXIBLE RISER, CHICAGO 1017</p> <p>ROUGH-IN: 2" WASTE, 2" VENT, 1/2" HOT AND COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.</p> <p>TYPE: L-1 (T.A.S. COMPLIANT FOR ADULTS)</p> <p>DESCRIPTION: LAVATORY, WALL HUNG, WHITE VITREOUS CHINA, 20" X 16" W/ FRONT OVERFLOW AND CONCEALED ARM SUPPORTS, 1-1/2" CLEARANCE, 1/2" O.D. APPROVED EQUAL</p> <p>FAUCET: CHROME PLATED BRASS DECK MOUNTED FAUCET WITH 5" SPOUT, 4" WRIST BLADE HANDLES ON 4" CENTERS, QUARTER TURN OPERATING CARTRIDGES, V-ANDAL RESISTANT 2.2 GPM AERATOR, CHICAGO MODEL 404-31703-E12V1PCT 2.2 GPM</p> <p>STRAINER: CHROME PLATED BRASS GRID STRAINER WITH 6" LONG 1/2" GAUGE 1-1/4" TAILPIECE WITH LOCK NUT, CHICAGO 157-ACP</p> <p>P-TRAP: 1-1/4" CHROME PLATED CAST BRASS TRAP WITH CLEANOUT AND GROUND JOINT ELBOW AND SLIP NUTS, 1-1/4" CHROME PLATE CAST BRASS EXTENSION TO WALL WITH ESCUTCHEON PLATE, MCGUIRE 888 AND 1127</p> <p>SUPPLIES: 1/2" 1/8" S. X 3/8" O.D. CHROME PLATED LOOSE KEY STOP VALVE W/ ESCUTCHEON AND 3/4" COMPRESSION CHROME PLATED FLEXIBLE RISER, CHICAGO 1017</p> <p>ROUGH-IN: 2" WASTE, 2" VENT, 1/2" HOT AND COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.</p> <p>TYPE: SK-1 (T.A.S. COMPLIANT FOR ADULTS)</p> <p>DESCRIPTION: SINK, COUNTER MOUNTED, SELF-REMAINING, 30 GAUGE TYPE 304 STAINLESS STEEL, 37" X 21" X 5-1/2" DEEP, DOUBLE COMPARTMENT WITH FAUCET DECK, DRAIN OUTLETS CENTERS 8 1/4" AND 8 1/2", THREE FAUCET HOLES ON 4" CENTERS, ELKAY GK6331</p> <p>FAUCET: CHROME PLATED BRASS DECK MOUNTED FITTING WITH 4" SWING GOOSENECK SPOUT AND 4" WRIST BLADE HANDLES ON 4" CENTERS, QUARTER TURN OPERATING CARTRIDGES, 2.2 GPM AERATOR, CHICAGO MODEL 404-31703-E12V1PCT 2.2 GPM</p> <p>STRAINER: STAINLESS STEEL FORGED STAINLESS STEEL BASKET STRAINER, EACH WITH 1/4" O.D. OUTLET, LBS FALL REEVE, MCGUIRE 13A11</p> <p>P-TRAP: 1-1/2" END OUTLET 1/2" GAUGE CONTINUOUS WASTE WITH CAST BRASS TEE AND SLIP NUTS, MCGUIRE 111CHG17-1127 CHROME PLATED CAST BRASS TRAP WITH CLEANOUT AND SLIP NUTS, 1-1/2" CHROME PLATE WITH ESCUTCHEON PLATE, MCGUIRE 889 AND 317</p> <p>SUPPLIES: 1/2" 1/8" S. X 3/8" O.D. CHROME PLATED LOOSE KEY STOP VALVE W/ ESCUTCHEON AND 3/4" COMPRESSION CHROME PLATED FLEXIBLE RISER, CHICAGO 1017</p> <p>ROUGH-IN: 2" WASTE, 2" VENT, 1/2" HOT AND COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.</p> <p>TYPE: SH-1</p> <p>DESCRIPTION: BRASS 1/2" SINGLE ACTION STOP VALVE, SHOWER, STANDARD HEIGHT, THERMOSTATIC HANDLER VALVE, 1/2" FLOOR CONTROL, SHOWER HEAD, SHOWER DRAIN SHALL BE MANUFACTURED BY ZURN, WITH HEEL-PROOF STRAINER, NICKEL HEAD, AND SHALL BE V-ANDAL PROOF</p> <p>TYPE: HB-1 - GENERAL USE</p> <p>DESCRIPTION: HOSE BIBB, 3/4" INLET, CHROME PLATED BRASS, VAQUIM BREAKER, REMOVABLE TEE HANDLE, CHICAGO 92</p> <p>ROUGH-IN: 3/4" COLD WATER</p> <p>TYPE: TMV</p> <p>DESCRIPTION: THERMOSTATIC MIXING VALVE, SCHEDULED ON DRAWINGS</p>	<p>FD-1 TOILET ROOMS AND GENERAL USE</p> <p>SERVICE: FLOOR DRAIN, BOTTOM OUTLET CAST IRON BODY, ADJUSTABLE 6" DIAMETER NICKEL BRONZE STRAINER WITH V-ANDAL PROOF SCREWS, INTEGRAL CLAMPING DEVICE, WADE 1065D84-1</p> <p>TRAP SEAL: PROVIDE PRO-SYSTEMS, INC. TRAP GUANO FACTORY FITTED MANUFACTURER</p> <p>ROUGH-IN: REFER TO FLOOR PLANS FOR SIZES, COORDINATE FINAL LOCATION AND INSTALLATION WITH ARCHITECTURAL DRAWINGS / FLOOR CONSTRUCTION</p> <p>TYPE: FCO</p> <p>DESCRIPTION: FLOOR CLEANOUT, CAST IRON BODY WITH THREADED ADJUSTABLE HOUSING, FERRULE WITH TAPERED BRASS PLUG, CARPET MARKER WHERE REQUIRED, WADE 1104E</p> <p>TYPE: WCO</p> <p>DESCRIPTION: WALL CLEANOUT, CAST IRON ANGLE FERRULE, COUNTERSINK BRASS PLUG, AND ROUND STAINLESS COVER PLATE WITH CENTER SECURING SCREW. PROVIDE CAST IRON CLEANOUT TEE IN LIEU OF FERRULE AS REQUIRED FOR WALL CONSTRUCTION, WADE 1551E OR WADE 1556E WITH WADE 1480R.</p> <p>TYPE: RVB-1</p> <p>DESCRIPTION: REFRIGERATOR VALVE BOX, 10-3/4" X 9", 1/2" GAUGE STEEL WITH THREADED HOUSING, FERRULE WITH TAPERED BRASS PLUG, AND ROUND SCOTATED CAST IRON TRACTOR COVER. PROVIDE 1/2" DIA. NICKEL BRONZE COVER, BRASS OR DIRT PROVIDE 1/4" X 1/4" X 1/2" CONCRETE PAD, WADE 6086Z-179.</p> <p>TYPE: ECO</p> <p>DESCRIPTION: EXTERIOR CLEANOUT TO GRADE, CAST IRON BODY WITH THREADED ADJUSTABLE HOUSING, FERRULE WITH TAPERED BRASS PLUG, AND ROUND SCOTATED CAST IRON TRACTOR COVER. PROVIDE 1/2" DIA. NICKEL BRONZE COVER, BRASS OR DIRT PROVIDE 1/4" X 1/4" X 1/2" CONCRETE PAD, WADE 6086Z-179.</p> <p>TYPE: FCO</p> <p>DESCRIPTION: FLOOR CLEANOUT, CAST IRON BODY WITH THREADED ADJUSTABLE HOUSING, FERRULE WITH TAPERED BRASS PLUG, CARPET MARKER WHERE REQUIRED, WADE 1104E.</p> <p>TYPE: TB-1</p> <p>DESCRIPTION: TB-10 PRINTERS SHALL BE PER MODEL, 1000, 600 OR APPROVED EQUAL WITH RECYCLE TIMER WITH PRE-SET TIMER ON/OFF FOR 10 SECONDS EVERY 24 HOURS. DISTRIBUTION MANIFOLD UNITS (10 SERIES) DRAIN OUTLET, 5/8" AND 1/2" COMPRESSION BREAKERS, TEST 1/2" FEMALE, 90° SWISSMADE BL 201 CIRCUIT ELECTRICAL ASSEMBLY LISTED PER UL173. TEMPERATURE/PRESSURE: 33 TO 133 F, 20 PSI - 150 PSI, MIN. 2 GZ. WATER AT 20 PSI PER DRAIN SERVED. WITH ACCESS DOOR.</p> <p>TYPE: WC-1 (T.A.S. COMPLIANT DEPENDING UPON MOUNTING HEIGHT)</p> <p>DESCRIPTION: 267 100 AMERICAN STANDARD 17" HEIGHT, ELONGATED BOWL, PLASTIC OPEN FRONT SEAT W/ A STAINLESS STEEL CHECK HINGE. WATER CLOSET RIM HEIGHT SHALL BE 17" ABOVE FINISHED FLOOR LEVEL. CONTRACTOR TO CONFIRM WATER SUPPLY AND PRESSURE. REFER TO ARCHITECTURAL MANUFACTURER'S REQUIREMENTS</p> <p>SEAT: ELONGATED OPEN FRONT WHITE PLASTIC SEAT WITH SELF- SUSTAINING CHECK HINGES, OLSONITE 9553C.</p> <p>CARRIER: W.A.DE VERTICAL SERIES W-340, OR HORIZONTAL SERIES W-310.</p> <p>ROUGH-IN: 4" WASTE, 2" VENT, 1" COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.</p> <p>GENERAL NOTES: ALL LAVATORIES AND SINKS SHALL BE SUPPLIED WITH HOT AND COLD WATER TO FAUCETS AS INDICATED ON PLANS AND FUTURE SCHEDULE. PROVIDE CHROME PLATED BRASS SUPPLY STOPS WITH LOOSE KEYS AND WALL MOUNTED 1/2" DIA. NICKEL BRONZE TEE HANDLE RISERS OF SIZE REQUIRED TO PROPERLY CONNECT FIXTURES. PROVIDE 1/2" DIA. NICKEL BRONZE BRASS P-TRAP WITH CLEANOUT AND EXTENSION TO WALL WITH ESCUTCHEON REFER TO FIXTURE SCHEDULE FOR MINIMUM SIZES OF PLUMBING FEATURE</p>	<p>ROUGH-INS PROVIDE MOLDED CLOSED CELL ANTI-MICROBIAL VINYL INSULATION KITS AT ALL LAVATORIES AND SINKS REQUIRED TO BE T.A.S. ACCESSIBLE (TRUBERO INSULATION). PROVIDE 1/2" DIA. NICKEL BRONZE TEE HANDLE RISERS CONFORM WITH THE STATE ACCESSIBILITY STANDARDS REQUIREMENTS.</p>
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BRAX EASTERWOOD
 DESIGN

2728 AVENUE Q SUITE 2
 GALVESTON TEXAS 77550
 PHONE 409-354-8976
 FAX 409-354-8976
 EMAIL: INFO@BRAXEWOOD.COM

FOR PERMIT

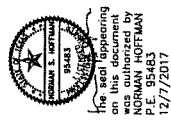
DESIGN DEVELOPMENT

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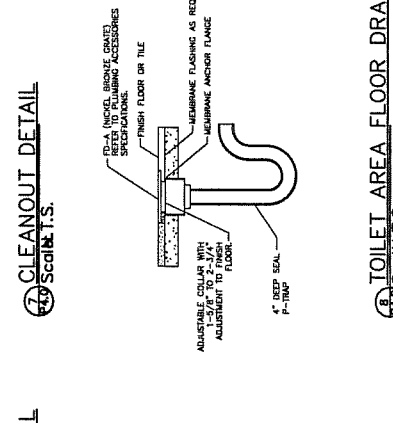
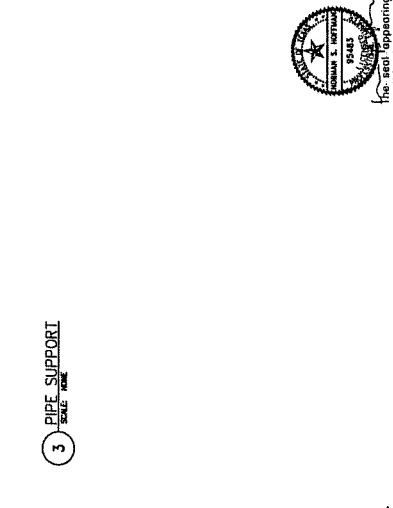
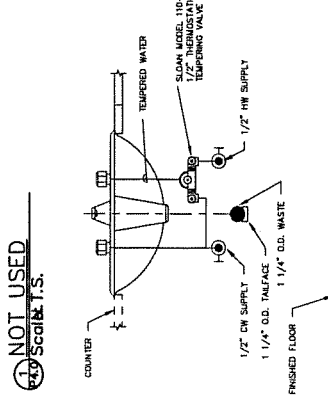
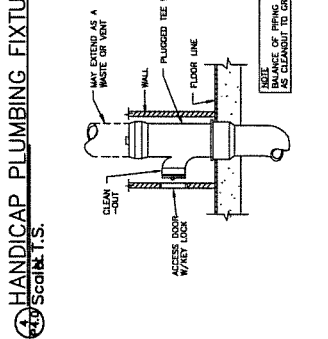
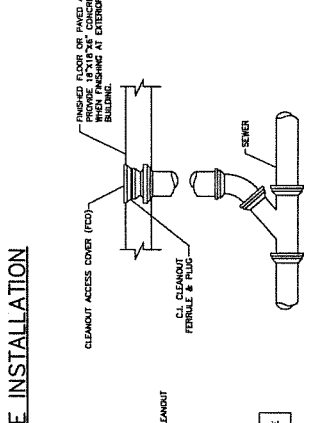
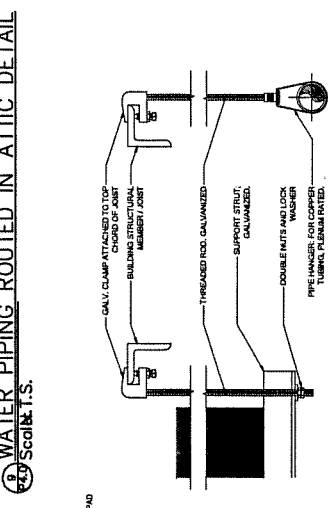
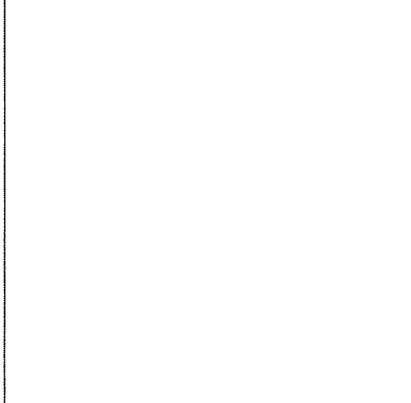
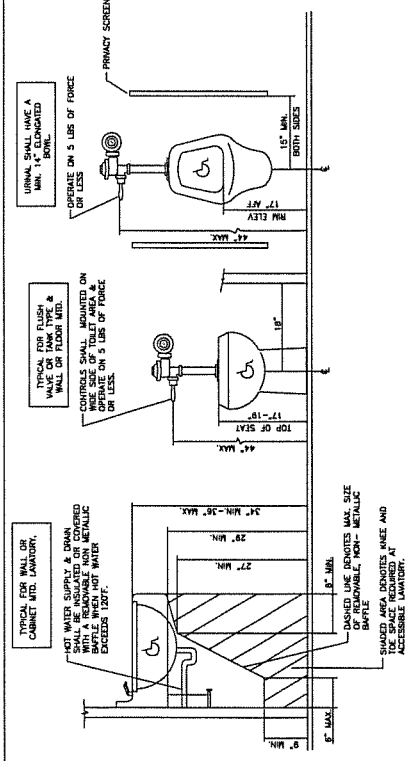
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GALVESTON COUNTY
 BEACH PAVILION
 CRYSTAL BEACH, TX 77650

3E-Arc LLC Project No: C-13-07-01



COUNTY APPROVAL: _____ DATE: _____
SIGNATURE: _____



BRAVESTON COUNTY
BEACH PAVILION
CRYSTAL BEACH, TX 77650

BRAX EASTERWOOD DESIGN
2728 AVENUE Q SUITE 2
DALLAS, TEXAS 75245
972.418.9195
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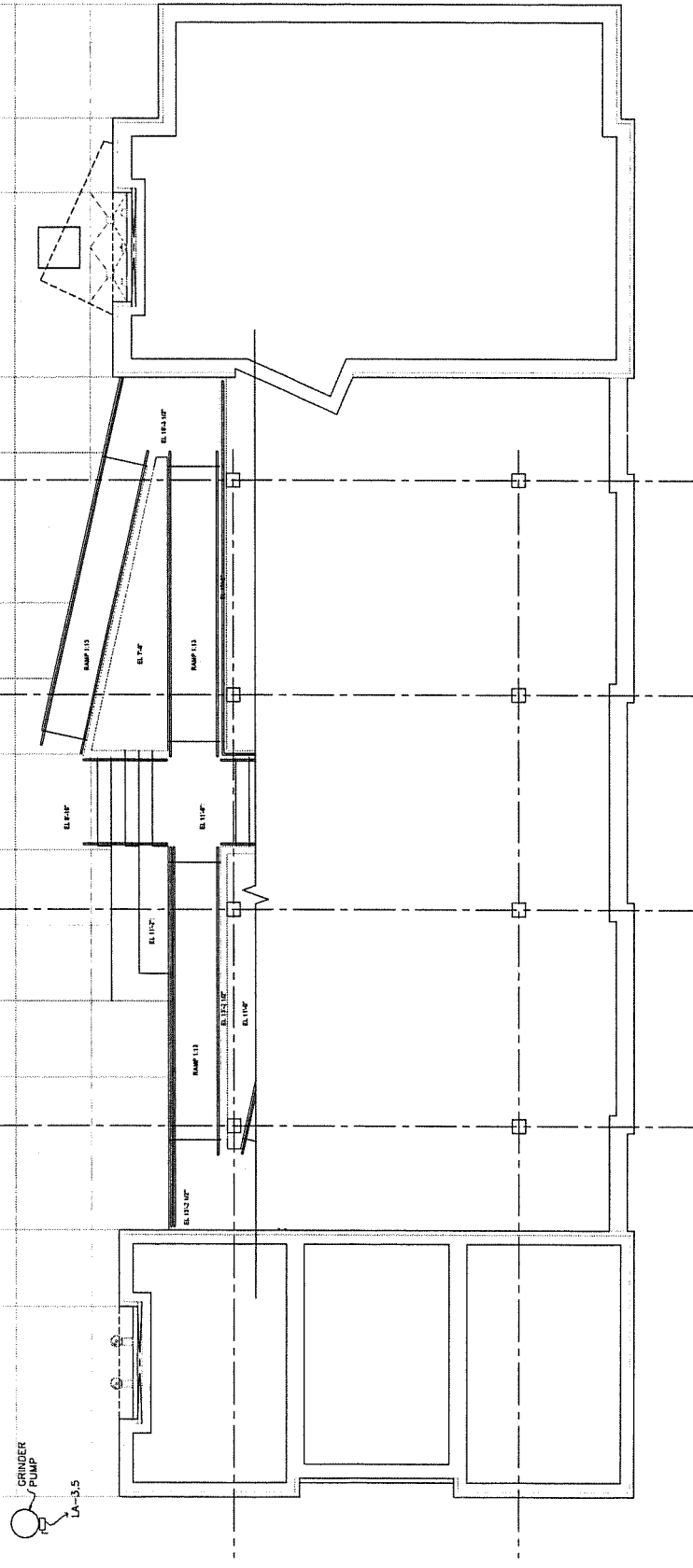
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BE-Arc LLC Project No: C-13-007.01

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1 LOWER LEVEL
POWER & LIGHTING PLAN
SCALE: 1/4" = 1'-0"

COUNTY APPROVAL: _____ DATE: _____
SIGNATURE: _____

**GALVESTON COUNTY
BEACH PAVILION
CRYSTAL BEACH, TX 77650**

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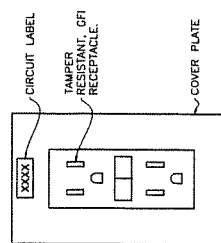
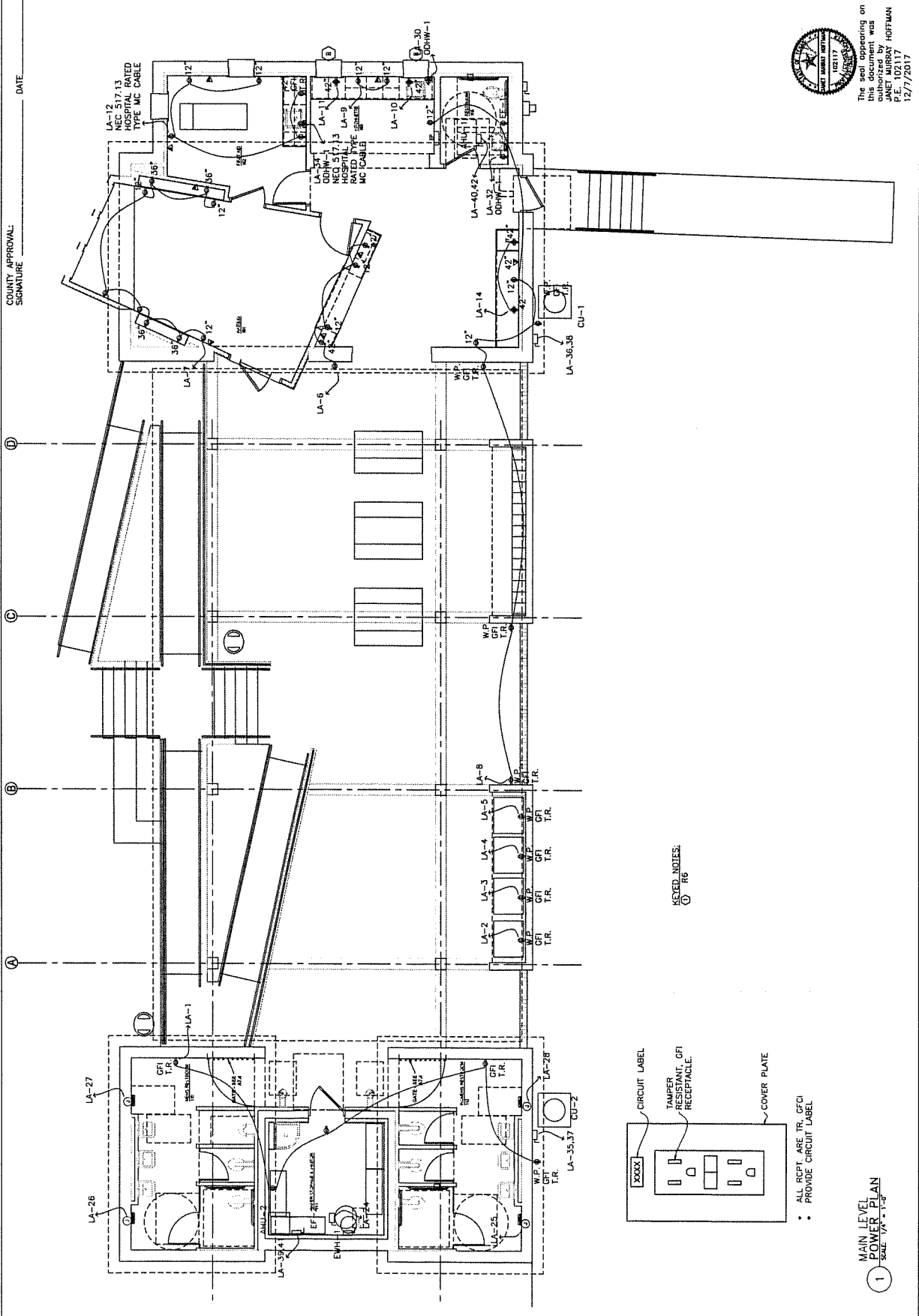
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- ALL REPT. ARE TR. GFCI
- PROVIDE CIRCUIT LABEL

1 MAIN LEVEL
POWER PLAN
SCALE 1/4" = 1'-0"

COUNTY APPROVAL: _____ DATE: _____
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GALVESTON COUNTY
BEACH PAVILION
CRYSTAL BEACH, TX 77650

BR-AVC LLC Project No : C-13-007.01

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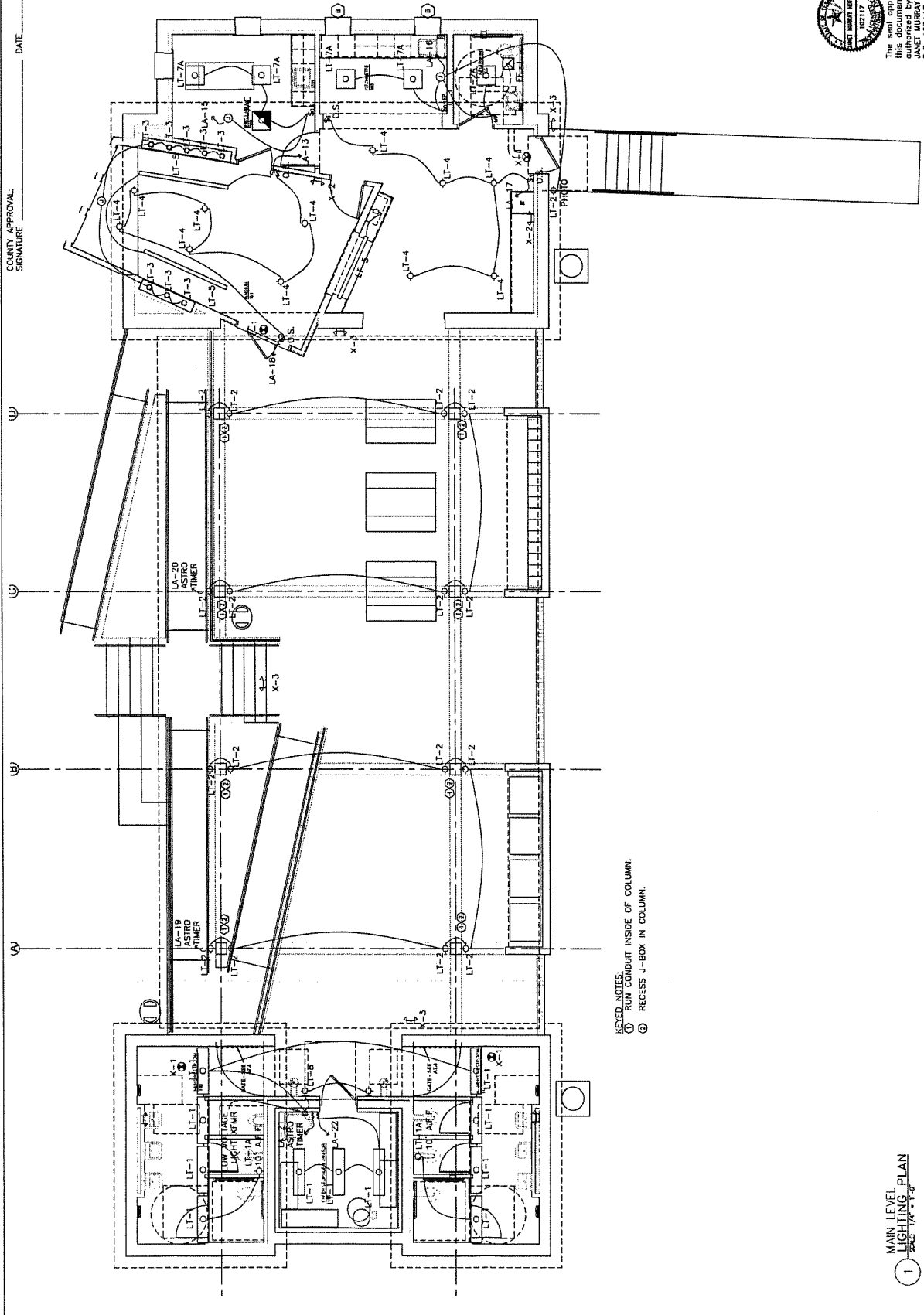
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KEYED NOTES:
① RUN CONDUIT INSIDE OF COLUMN.
② RECESS J-BOX IN COLUMN.

1 MAIN LEVEL LIGHTING PLAN
SCALE: 1/4" = 1'-0"

COUNTY APPROVAL SIGNATURE _____ DATE _____

**GALVESTON COUNTY
BEACH PAVILION
CRYSTAL BEACH, TX 77650**

**BRAX EASTWOOD
DESIGN**

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PHONE 409-354-8976
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E-MAIL BRAX@BRAXDESIGN.COM

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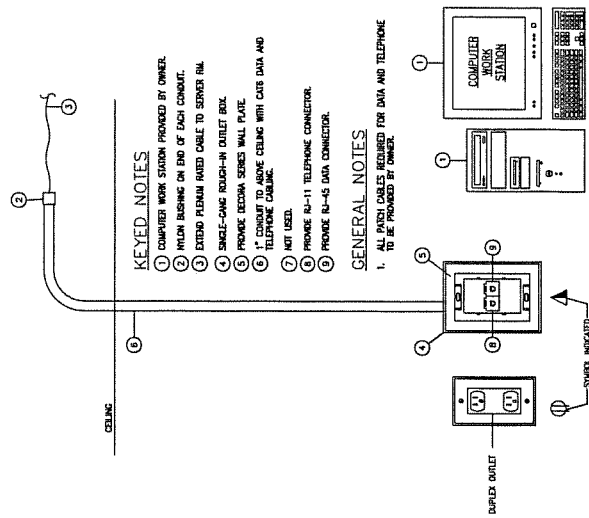
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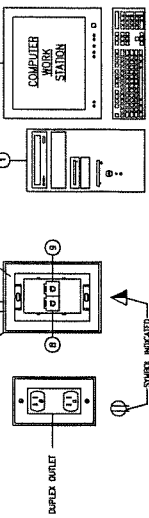
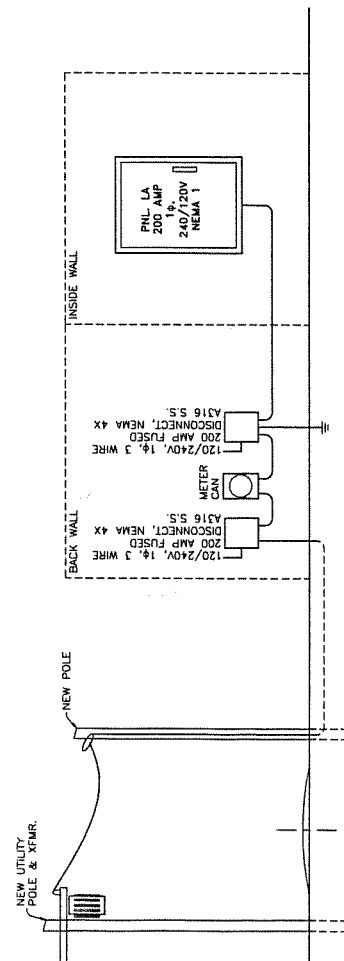


KEYED NOTES

- 1) COMPUTER WORK STATION PROVIDED BY OWNER.
- 2) WELON BUSHING ON END OF EACH CONDUIT.
- 3) EXTEND PLENUM RATED CABLE TO SERVER RAIL.
- 4) SINGLE-CONC ROUNDOFF OUTLET BOX.
- 5) PROVIDE SECOND SERIES WALL PLATE.
- 6) 1" CONDUIT TO ABOVE CEILING WITH CAT5 DATA AND TELEPHONE CABLEING.
- 7) NOT USED.
- 8) PROVIDE RJ-11 TELEPHONE CONNECTOR.
- 9) PROVIDE RJ-45 DATA CONNECTOR.

GENERAL NOTES

1. ALL RERUN CABLES REQUIRED FOR DATA AND TELEPHONE TO BE PROVIDED BY OWNER.



ELECTRICAL SPECIFICATIONS

- ELECTRICAL CONDUCTORS
1. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING:
ALUMINUM: ALUMINUM CONDUCTOR ALUM ONE BRAND
ALUMINUM INSULATED WIRE: COPAL-LANCA COMPANY
COPPER: COPPER WIRE & CABLE COMPANY
COPPER CONDUIT: COPPER WIRE & CABLE COMPANY
COPPER: COPPER WIRE & CABLE COMPANY

- 2. CONDUCTOR INSULATION: COPPER WIRE & CABLE COMPANY
3. CONDUCTOR INSULATION: COPPER WIRE & CABLE COMPANY
4. CONDUCTOR INSULATION: COPPER WIRE & CABLE COMPANY

- 5. CONDUCTOR INSULATION: COPPER WIRE & CABLE COMPANY
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7. CONDUCTOR INSULATION: COPPER WIRE & CABLE COMPANY

- 8. CONDUCTOR INSULATION: COPPER WIRE & CABLE COMPANY
9. CONDUCTOR INSULATION: COPPER WIRE & CABLE COMPANY
10. CONDUCTOR INSULATION: COPPER WIRE & CABLE COMPANY

- 11. CONDUCTOR INSULATION: COPPER WIRE & CABLE COMPANY
12. CONDUCTOR INSULATION: COPPER WIRE & CABLE COMPANY

- 13. CONDUCTOR INSULATION: COPPER WIRE & CABLE COMPANY
14. CONDUCTOR INSULATION: COPPER WIRE & CABLE COMPANY

- 15. CONDUCTOR INSULATION: COPPER WIRE & CABLE COMPANY
16. CONDUCTOR INSULATION: COPPER WIRE & CABLE COMPANY

- 17. CONDUCTOR INSULATION: COPPER WIRE & CABLE COMPANY
18. CONDUCTOR INSULATION: COPPER WIRE & CABLE COMPANY

- 19. CONDUCTOR INSULATION: COPPER WIRE & CABLE COMPANY
20. CONDUCTOR INSULATION: COPPER WIRE & CABLE COMPANY

ELECTRICAL CONDUIT

- 1. CONDUIT TYPE: RIGID POLYETHYLENE GLYCOL (RPG)
2. CONDUIT TYPE: RIGID POLYETHYLENE GLYCOL (RPG)
3. CONDUIT TYPE: RIGID POLYETHYLENE GLYCOL (RPG)

- 4. CONDUIT TYPE: RIGID POLYETHYLENE GLYCOL (RPG)
5. CONDUIT TYPE: RIGID POLYETHYLENE GLYCOL (RPG)

- 6. CONDUIT TYPE: RIGID POLYETHYLENE GLYCOL (RPG)
7. CONDUIT TYPE: RIGID POLYETHYLENE GLYCOL (RPG)

- 8. CONDUIT TYPE: RIGID POLYETHYLENE GLYCOL (RPG)
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- 12. CONDUIT TYPE: RIGID POLYETHYLENE GLYCOL (RPG)
13. CONDUIT TYPE: RIGID POLYETHYLENE GLYCOL (RPG)

- 14. CONDUIT TYPE: RIGID POLYETHYLENE GLYCOL (RPG)
15. CONDUIT TYPE: RIGID POLYETHYLENE GLYCOL (RPG)

- 16. CONDUIT TYPE: RIGID POLYETHYLENE GLYCOL (RPG)
17. CONDUIT TYPE: RIGID POLYETHYLENE GLYCOL (RPG)

- 18. CONDUIT TYPE: RIGID POLYETHYLENE GLYCOL (RPG)
19. CONDUIT TYPE: RIGID POLYETHYLENE GLYCOL (RPG)

ELECTRICAL CONDUIT

- 20. CONDUIT TYPE: RIGID POLYETHYLENE GLYCOL (RPG)
21. CONDUIT TYPE: RIGID POLYETHYLENE GLYCOL (RPG)

- 22. CONDUIT TYPE: RIGID POLYETHYLENE GLYCOL (RPG)
23. CONDUIT TYPE: RIGID POLYETHYLENE GLYCOL (RPG)

- 24. CONDUIT TYPE: RIGID POLYETHYLENE GLYCOL (RPG)
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- 26. CONDUIT TYPE: RIGID POLYETHYLENE GLYCOL (RPG)
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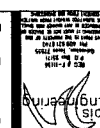
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- 34. CONDUIT TYPE: RIGID POLYETHYLENE GLYCOL (RPG)
35. CONDUIT TYPE: RIGID POLYETHYLENE GLYCOL (RPG)

- 36. CONDUIT TYPE: RIGID POLYETHYLENE GLYCOL (RPG)
37. CONDUIT TYPE: RIGID POLYETHYLENE GLYCOL (RPG)

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GALVESTON TEXAS 77550
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SIGNATURE:
DATE:

1. MEAN DIMENSIONS TO EXPOSE WIRING OF OUTSIDE SYSTEMS & WOLVES
2. ACCESSORY FEET WHERE REQUIRED FOR REINFORCING CONCRETE
3. REINFORCING CONCRETE: PROVIDE REINFORCING CONCRETE AS SPECIFIED IN THESE SPECIFICATIONS
4. REINFORCING CONCRETE: PROVIDE REINFORCING CONCRETE AS SPECIFIED IN THESE SPECIFICATIONS

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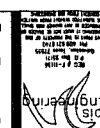
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CONT. ON E3.1

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DATE: 12/17/2017
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SIGNATURE:
DATE:
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SIGNATURE:
DATE:

1. MEAN DIMENSIONS TO EXPOSE WIRING OF OUTSIDE SYSTEMS & WOLVES
2. ACCESSORY FEET WHERE REQUIRED FOR REINFORCING CONCRETE
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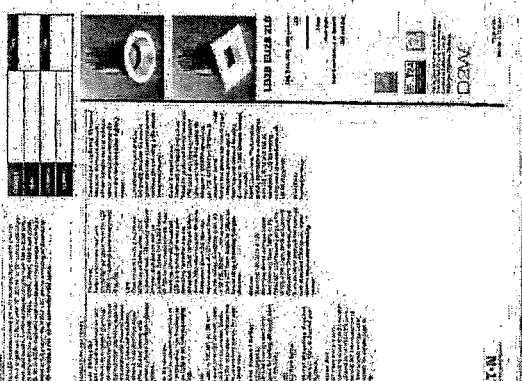
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Portfolio

1.3

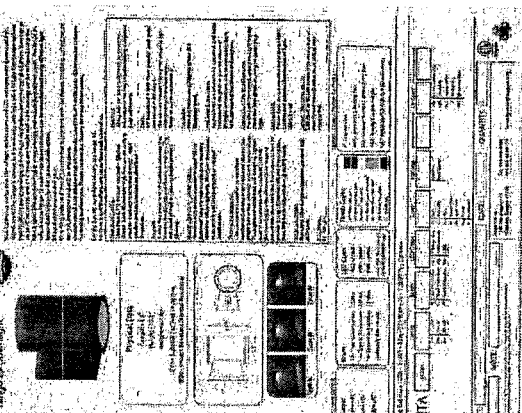


REBELLE ARCHITECTS

Surface

UTA-31861
Tango 38' Diameter

1.2

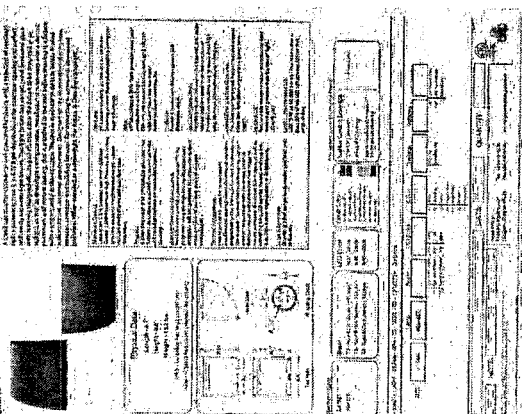


REBELLE ARCHITECTS

Surface

UQU-31344
Quarter 1

1.1



REBELLE ARCHITECTS

**GALVESTON COUNTY
BEACH PAVILION
CRYSTAL BEACH, TX 77650**

BE-Arc LLC Project No : C-13-007201

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E-TR2212 Series

LED Troffer - 2 x 2

Replaces 2 x 4 TR2016



Our new 2x2 LED troffer is the perfect choice for your next lighting project. It's compact, efficient, and easy to install. The troffer is designed to fit into standard 2x2 troffer housings, making it a seamless upgrade for your existing lighting system.

Features:

- 1500 lumens per foot
- 35-watt power consumption
- 50,000-hour life expectancy
- Dimmable (0-10V)
- Available in multiple color temperatures


Dimensions: 24" x 24" x 1.5"

Weight: 1.5 lbs

Part Number: E-TR2212

Manufacturer: e-conolight

Head Round 3000K LED Ceiling Light



Head Round 3000K LED Ceiling Light. This modern, minimalist ceiling light fixture is perfect for contemporary interiors. It features a sleek, circular design and provides warm, ambient lighting.

Specifications:

- 3000K color temperature
- 15-watt power consumption
- 1500 lumens
- Dimmable (0-10V)
- Available in multiple finishes


Dimensions: 12" diameter

Weight: 0.5 lbs

Part Number: HR-3000K

Manufacturer: e-conolight

Alcon Lighting 11142-4-W I66 Series Architectural LED 4 Foot Linear Wall Mount Direct Light Fixture



Alcon Lighting 11142-4-W I66 Series Architectural LED 4 Foot Linear Wall Mount Direct Light Fixture. This fixture is designed for use in commercial and industrial settings, providing bright, focused lighting.

Specifications:

- 4-foot length
- 150-watt power consumption
- 15,000 lumens
- Dimmable (0-10V)
- Available in multiple finishes

Dimensions: 48" x 4" x 4"

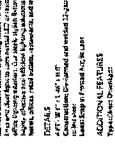
Weight: 10 lbs

Part Number: 11142-4-W

Manufacturer: Alcon Lighting

REBELLE

Orchestra Circle 2756LED Mass Pendant Mount



REBELLE Orchestra Circle 2756LED Mass Pendant Mount. This modern pendant light fixture is perfect for dining rooms, bars, and restaurants. It features a circular design and provides bright, focused lighting.

Specifications:

- 2756 LED chips
- 150-watt power consumption
- 15,000 lumens
- Dimmable (0-10V)
- Available in multiple finishes


Dimensions: 12" diameter

Weight: 5 lbs

Part Number: ORC-2756

Manufacturer: REBELLE

E-TR2212 Series



E-TR2212 Series LED Troffer. This fixture is designed for use in commercial and industrial settings, providing bright, focused lighting.

Specifications:

- 1500 lumens per foot
- 35-watt power consumption
- 50,000-hour life expectancy
- Dimmable (0-10V)
- Available in multiple color temperatures

Dimensions: 24" x 24" x 1.5"

Weight: 1.5 lbs

Part Number: E-TR2212

Manufacturer: e-conolight

DATE: _____

APPROVAL: _____

BRAX EASTERWOOD DESIGN

2728 AVENUE Q SUITE 2
GALVESTON TEXAS 77550
PHONE 409-354-8976
EASTERN@BRAX.COM

FOR PERMIT

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402-491-1100
www.kichler.com

REBELLE

10000 W. 110th Street, Omaha, NE 68148
402-491-1100
www.rebelle.com

Alcon Lighting

10000 W. 110th Street, Omaha, NE 68148
402-491-1100
www.alconlighting.com

e-conolight

Making LED easy.

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
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APPROVAL: _____

DATE: _____

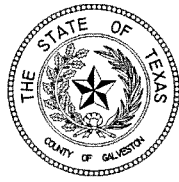
APPROVAL: _____

DATE: _____

APPROVAL: _____

DATE: _____

APPROVAL: _____



THE COUNTY OF GALVESTON

RUFUS G. CROWDER, CPPO, CPPB
PURCHASING AGENT

GWEN MCLAREN, CPPB
ASST. PURCHASING AGENT

COUNTY COURTHOUSE
722 Moody (21st Street)
Fifth (5th) Floor
GALVESTON, TEXAS 77550
(409) 770-5371

March 16, 2018

PROJECT NAME: Bolivar Beach Pavilion

BID NO: B181016

RE: ADDENDUM #2

To All Prospective Proposers,

The following information is being provided to aid in preparation of your proposal submittal(s):

ATTACHMENTS:

Attached you will find Addendum #2 for RFP #B181013, Bolivar Beach Pavilion. The attachments include the following:

- Proposal Form
- Soils Report Specifications
- Masonry Revised Specification
- Furniture Revised Specification

Question #1: *Are there liquidated damages clause in the project?*

Response: The submittals must include a construction schedule. The sample contract between Galveston County and Contractor (Document 00102) includes the Commencement and Completion clauses in Article II. Liquidated damages related to schedule are not included in the sample contract.

Question #2: *Is there a time of completion for the project?*

Response: The estimated time of completion is eight (8) months.

Question #3: *Who is the Program Administrator for this project?*

Response: The Program Administrator for this project is:

Julie Diaz
Parks and Cultural Services Director
4102 Main Street
La Marque, Texas 77568
(409) 934-8114
e-mail: Julie.diaz@co.galveston.tx.us

Question #4: *What is the timeline for this project?*

Response: Procurement Timeline is as follows:

Advertisement RFP (First date of publication)	Thursday, February 22, 2018
Advertisement RFP (second date of publication)	Thursday, March 1, 2018
Question Deadline	Monday, March 12, 2018 at 5:00 P.M.
RFP due from public/RFP Opening	Wednesday, March 28, 2018 at 2:00 P.M.

As a reminder, all questions regarding this proposal must be submitted in writing to:

Rufus G. Crowder, CPPO CPPB
Galveston County Purchasing Agent
722 Moody, Fifth (5th) Floor
Galveston, Texas 77550
E-mail: rufus.crowder@co.galveston.tx.us

If you have any further questions regarding this proposal, please address them to Rufus Crowder, CPPO CPPB, Purchasing Agent, via e-mail at rufus.crowder@co.galveston.tx.us, or contact the Purchasing Department at (409) 770-5371.

Please excuse us for any inconvenience that this may have caused.

Sincerely,



Rufus G. Crowder, CPPO CPPB
Purchasing Agent
Galveston County

Addendum 2

00101 Proposal Form is **Attached**.

The soils report is included in the attached Spec Section 1021 Soils Report. – **Specification is Attached**.

In Specification Section 04200 2.02 B 1 Size: Nominal 16" long x 8" high x 8" wide or 12" wide. Should read Size Nominal 12" Long x 8" high x 8" wide or 12" Long x 8" high x 4" wide. Two wythes required to make 12" thick wall. ½ running bond. – **Revised Specification is Attached**.

Exterior Wood trim noted in drawings as 'Hardwood Trim' references specification section 06100 Rough Carpentry. All 'Hardwood Trim' is cypress.

Spec 12705 Furniture 2.03 D has been struck – – **Revised Specification is Attached**.

**Bolivar Beach Pavilion
Crystal Beach, TX**

SECTION 00101
PROPOSAL FORM

- 1. OWNER: **Galveston County**
- 2. PROJECT: **Bolivar Beach Pavilion**
- 3. Design Professional **Brax Easterwood Design, LLC**

4. SUBMITTED BY: _____
Proposer Name

Proposer Address

Proposer Phone Number

Proposer E-mail or Website

- 5. A. Having examined the Instructions to Proposers, Contract Documents, and Conditions of the Contract of the Project listed above, dated 12/12/2017 including Addenda and having visited and fully inspected the site and examined all conditions affecting the Project, the undersigned, proposes to perform the complete Work of the Project required by the said Documents for the sum or sums set forth below.
- B. In submitting this proposal, the undersigned, agrees to the following:
 - 01. Hold the proposal open for acceptance for 60 days from the submission of Proposal.
 - 02. Accept the right of the Owner to reject any, or all proposals, to waive formalities, and to accept the proposal which the Owner considers most advantageous to him.
 - 03. Accept the right of the Owner to reject any Subcontractor. A new Subcontractor may be contracted with the difference in proposal amount added to, or subtracted from, the Contract.
 - 04. Enter into and execute a Contract if awarded, on the basis of the Base Proposal and selected Alternate Proposals, if any.
 - 05. Complete the Work in accordance with the Contract Documents within the stipulated Contract Time.
- C. Furnish specified insurance.
 - 01. Furnish specified insurance, performance, and payment bonds as per the Agreement between Galveston County and Trade Contractor.
- D. The undersigned acknowledges that being notified that he has the best responsible Proposal does not convey upon him any property right to an award of the Contract or anything of value. The undersigned also acknowledges that no rights rest under the Proposal or tentative award and that any rights the Proposer may obtain will arise only upon execution of the Contract.

6. **ADDENDA:** The undersigned acknowledges receipt of:
Addendum 1..... March 14, 2018 initial here _____
Addendum 2..... March 16, 2018 initial here _____

7. **CONTRACT TIME:** Undersigned agrees to commence work upon receipt of Notice to Proceed and be

**Bolivar Beach Pavilion
 Crystal Beach, TX**

Substantially complete within _____ calendar days

8. Base Proposal for Bolivar Beach Pavilion associated with B181016: The undersigned agrees to perform the complete Work of this Project, for the lump sum price of (The Base Proposal includes all allowances listed in the Section 01020 except for the Contingency Allowance):
 _____ Dollars and no/100 \$ _____
 (Amount written in words governs) (Amount in figures)

9. Contingency Allowance for Bolivar Beach Pavilion associated with B181016: The undersigned agrees to include a Contingency Allowance equal to 5% of the Base Proposal lump sum (item 12) to be utilized by Galveston County for unforeseen items of work as per Section 01020 of the Project manual:
 _____ Dollars and no/100 \$ _____
 (Amount written in words governs) (Amount in figures)

10. Testing Allowance for Bolivar Beach Pavilion associated with B181016: The undersigned agrees to include a Testing Allowance equal to \$24,000 as per Section 01020 of the Project manual:
Twenty - four thousand _____ Dollars and no/100 \$ 24,000
 (Amount written in words governs) (Amount in figures)

11. Alarm Allowance for Bolivar Beach Pavilion associated with B181016: The undersigned agrees to include a Alarm Allowance equal to \$10,000 as per Section 01020 of the Project manual:
Ten thousand _____ Dollars and no/100 \$ 10,000
 (Amount written in words governs)

Proposal Total

12. TOTAL: The sum of items 8 through 16 above:
 _____ Dollars & no/100
 \$ _____
 (Amount written in words governs) (Amount in figures)

13. OH&P FOR CHANGES IN THE WORK:
 The reasonable overhead and profit allowable under Article VIII of the Agreement will be set as follows:
 _____% Overhead
 _____% Profit

Proposers Printed Name:

Proposers Address:

Proposers Phone Number

Signatory's Printed Name:

Signatory's Position/Title:.....

**Bolivar Beach Pavilion
Crystal Beach, TX**

Seal:

Signature: date

Note that Section 00104 - Proposal Evaluation Waiver and other documents must accompany this form.

STATE OF TEXAS TAX STATEMENT OF MATERIALS and other charges:

The cost of in-place materials to be incorporated into the project in the Base Proposal\$ _____

The cost of labor, profit, materials not in-place and all other charges in the Base Proposal.....\$ _____

TOTAL: (Must agree with Proposal (para. 8) total above).....\$ _____

NOTE: The Statement of Affirmation Must Be Notarized.

STATEMENT OF AFFIRMATION

"The undersigned affirms that he/she is duly authorized to execute this waiver by the person(s) or business entity making the proposal.

Proposer's Name:

Proposers Address:

.....
.....

Signatory's Name:.....

Signatory's Position/Title:.....

Signature: date

Subscribed and sworn to me on this _____ day of _____

Notary Public

My Commission expires _____

NOTE: THIS FORM MUST BE EXECUTED AND SUBMITTED WITH PROPOSAL.

END OF SECTION

SECTION 01021
SOILS REPORT AND OTHER INFORMATION

PART 1 - GENERAL

1.01 REQUIREMENTS INCLUDED

- A. Identification of reports of existing conditions.

Bidder's/Contractor's responsibilities for investigating and working with existing conditions.

1.02 LAND IN-ADDITION TO THE SITE

- A. Contractor is responsible for obtaining any lands, areas, properties, facilities and easements, in addition to those furnished by the County, that the Contractor considers necessary for temporary facilities, storage, disposal of spoil or waste material or other purposes the Contractor determines necessary to complete the Work. Contractor shall provide written documentation from owner to use such land or facilities. The County/Professional and the Geotech do not assume any responsibility for existing conditions at such lands, areas, properties, facilities and /or easements obtained by the Contractor.

1.03 SUBSURFACE CONDITIONS AND OTHER PHYSICAL CONDITIONS

- A. This Section identifies reports of explorations and tests of subsurface conditions, and drawings of physical conditions of existing surface and subsurface structures that have been used in the preparation of the Contract Documents. Contractor may rely upon any technical information and data in those reports found in Appendix A, "Geotechnical Report".
- B. Any conclusions or interpretations made by the Contractor based on any Authorized Technical Data will be at the Contractor's own risk. Contractor's reliance on any non-technical information, data, interpretations or opinions also will also be at Contractor's own risk. The County/Professional assume no responsibility for any understanding reached or representation made about subsurface conditions and physical conditions of existing structures, except as otherwise expressly shown in or represented by the Authorized Technical Data provided. The only information or data contained in the geotechnical report and used in the preparation of the Contract Documents that may be properly considered authorized technical data concerning subsurface conditions is found in Appendix A "Geotechnical Report". Such technical data are made available to allow the Contractor to have access to the same information available to the County. The County/Professional do not warrant the accuracy or completeness of any such information or that the Contract Documents identify all the existing relevant reports and/or documents.

1.04 UNDERGROUND UTILITIES

- A. Information or data about physical conditions of Underground Utilities, which have been used in the preparation of the Contract Documents, is shown or indicated in the Drawings and technical specifications. Such information and data is based on information and data obtained from record documents or furnished to the County by the owners of those Underground Utilities or by others.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION

3.01 EXISTING GROUND SURFACE AND UNDERGROUND CONDITIONS; GENERALLY

- A. Where existing ground conditions are shown on the plans hereto attached, the elevations are believed to be reasonably correct but are not guaranteed to be absolutely so, and, together with any schedule of quantities, are presented only as an approximation. The Contractor shall satisfy itself, however, by actual examination of the site of the Work, as to the existing elevations and the amount of work required under the Contract.
- B. Where test pits and borings have been dug, the results supplied to the County/Professional by the soils Engineer may be given on the plans or are on file in the County/Professional's office and available for review. The County does not guarantee the accuracy or correctness of this information. If the Contractor desires any additional information relating to the soils investigation, contact the County/Professional to obtain such information. County does not guarantee the accuracy or correctness of any such information supplied to the Contractor.
- C. If, upon notice of a differing subsurface or latent physical condition from the Contractor, the County determines there was no unforeseen condition and unnecessary tests and investigations were conducted solely at the Contractor's request, any unnecessary expenses may be deducted from the Final Payment for the Contract. No increase in Contract Amount or Contract Time will be made if the differing site conditions were known or could have been discovered by the types of examinations that the Contractor, as Bidder, was responsible for. Claims based on groundwater table conditions will not be considered unforeseen subsurface conditions and will not be allowed. Any information indicated in the Contract Documents as to the groundwater table conditions has been provided for general information purposes only and is not intended to represent that the same conditions will exist during the execution of the Work. Further, no increase in Contract Amount or Contract Time will be made for costs incurred prior to the Contractor's written notice as required by the Contract Documents. The County will be allowed at least 10-days to investigate any alleged differing site conditions and to take appropriate action, before the Contractor is entitled to any adjustment in Contract Amount or Contract Time for Delay.

3.02 UNDERGROUND UTILITIES:

- A. The Contractor will be responsible for the safety and protection of, and providing for the repair of any damage done to the Work and existing surface and subsurface structures.

The Contractor will be responsible for any damages and injury resulting from the failure to excavate in a careful and prudent manner.

- B. Contractor shall have full responsibility for locating all underground pipelines, conduits, ducts, cables, wires, manholes, vaults, tanks, tunnels, or other such facilities or attachments, and any encasements containing such facilities, including those that convey electricity, gases, steam, liquid petroleum products, telephone or other communications, cable television, water, wastewater, stormwater, other liquids or chemicals, or traffic or other control systems, shown or indicated in the Contract Documents, in advance of construction, coordinating the Work with the actual locations found and making note of the actual locations on the record Drawings. Contractor shall exercise extreme caution when locating underground facilities to minimize the risk of damage from Contractor's activities. The Contractor will immediately notify the County and the owner of any Underground Utilities that are inaccurately identified or located on the Drawings.
- C. The Contractor will be responsible for any delay and all costs relating to the obligations set forth in this Section, except as provided by allowances specific to Underground Utilities.
- D. The Contractor will promptly notify the County, in writing, whenever the Contractor discovers that actual physical conditions of Underground Utilities differ materially from those indicated by the Contract Documents or Authorized Technical Data provided with the Contract Documents. Further, the Contractor promptly will notify the County, in writing, whenever the Contractor encounters Underground Utilities not shown or indicated in/through the Contract Documents, and which could not reasonably have been foreseen.
- E. The County and Contractor will follow the provisions of the General Conditions with respect to any conclusions reached by the County after the County compares the actual underground utility conditions with those included in the information provided to the Contractor.

3.03 ENVIRONMENTAL PROCEDURES FOR HAZARDOUS MATERIALS

- A. The Contractor will not, at any time, cause or permit any Hazardous Materials to be brought upon, stored, manufactured, blended, handled, or used in, on, or about the Project or the Site for any purpose except as lawful and necessary and in accordance with the Contract Documents. The Contractor will not cause or permit Hazardous Materials to be brought on Site unless they have been specifically pre-identified by the Contractor, and approved in writing in advance by the County.
- B. The Contractor will defend, save, indemnify and hold harmless the County, their agents and employees from and against all liabilities, claims, damages, losses and expenses including attorneys' fees, which arise at any time during or after completion of the Work as a result of or in connection with:
 - 1. The Contractor's breach of any prohibition or requirement set forth in this Section or,
 - 2. Any Hazardous Materials discharged, released, deposited or introduced in the soil or surface or groundwater in, on, under, or about the Work, the Site or other properties as a result of the activities of the Contractor, the Subcontractors and their respective

agents and employees in connection with the Work.

- C. The Contractor will immediately notify the County in writing of any significant release of Hazardous Materials at the Project or the Site, specifying the nature and quantity of the release, the location of the release, and the measures taken to contain and clean up the release and ensure that future releases do not occur.
- D. The Contractor agrees that insulation and any other construction materials containing asbestos or urea formaldehyde will not be used on the Work, and that all Sub-agreements will prohibit the use of construction materials (including, but not limited to, insulation) containing asbestos or urea formaldehyde.

3.04 DIFFERING HAZARDOUS MATERIAL CONDITIONS:

- A. If the Contractor unexpectedly encounters material reasonably believed to be Hazardous Material, the Contractor will immediately stop all affected Work, give written notice to the County and take appropriate health and safety precautions. Unless the Contract Documents require otherwise, the Contractor will conduct an investigation. If upon due investigation, the Contractor determines the material a Hazardous Material that may present a danger to persons or the surroundings, the Contractor will recommend a solution to the County. In any such case, the affected Work will be considered to have been under a suspension of Work.
- B. If the Hazardous Material is not required Work under the Drawings and/or Specifications, the County will proceed to have the Hazardous Material removed or rendered harmless through a Change Order or by means of another contract or as the County otherwise deems expedient. Alternatively, the County will terminate the affected Work or Contract for the County's convenience.
- C. If the County did not elect termination, once the Hazardous Material has been removed or rendered harmless, the affected Work will be resumed as directed in writing by the County. Any determination by the Florida Department of Community Health or the Department of Environmental Quality that the Hazardous Material has been removed or rendered harmless will be binding upon the County and Contractor for the purposes of resuming the affected Work.
- D. If the Contractor is responsible for the Hazardous Material, the Contractor will bear its proportionate share of the delay and costs involved in cleaning up the Site and removing and rendering it harmless to the satisfaction of the County and all Political Subdivisions with jurisdiction. The Contractor will be solely responsible if the Hazardous Material was brought to the Site by the Contractor, or results in whole or in part from any violation by the Contractor of any applicable Laws.
- E. If the Contractor is responsible, but fails to take appropriate action, and the County acts accordingly, the Contractor will defend, save, indemnify and hold harmless the County from and against all claims arising from the County's exercise of appropriate action.
- F. If the Contractor is not responsible, the County will issue a Change Order with the

necessary changes. The Change Order will adjust Contract Amount and/or Contract Time as made necessary by the changes and resulting unreasonable delay under the circumstances attributable to the County /Professional.

3.05 INCIDENTS WITH ARCHAEOLOGICAL FEATURES:

- A. The Contractor will immediately notify in writing, the County and all Federal, State and local agencies with jurisdiction of any Archaeological Feature deposits encountered or unearthed. The Contractor will protect such Archaeological Features in a proper and satisfactory manner. No further disturbance of the Archaeological Features will take place until work is allowed to resume in the affected areas.
- B. If the County concludes that the Contract Documents require changes because of Archaeological Feature deposits encountered, the County will issue a Change Order with the necessary changes in the Work. The Change Order also will adjust Contract Amount and/or Contract Time as made necessary by those changes and by any resulting unreasonable delay under the circumstances attributable to the County/Professional.

END OF SECTION

Appendix A

**REPORT
SOILS INVESTIGATION
PROPOSED BUILDING AT
CRYSTAL BEACH PAVILION
S. CRYSTAL BEACH RD
BOLIVAR, TX**

**FOR:
BRAX EASTERWOOD DESIGN**

Lab Job No. 17-300

Report No.: 1708/1200



COASTAL TESTING LABORATORIES, INC.

PASADENA 713-477-0121 • FAX 713-477-2277 • P.O. BOX 87653 • HOUSTON, TEXAS 77287-7653

August 18, 2017

Brax Easterwood Design
Attn: Brax Easterwood
2728 Avenue Q, Suite 2
Galveston, TX 77550

Reference: Soils Investigation

Lab. Job No.: 17-300
Report No.: 1708/1200

Dear Mr. Easterwood,

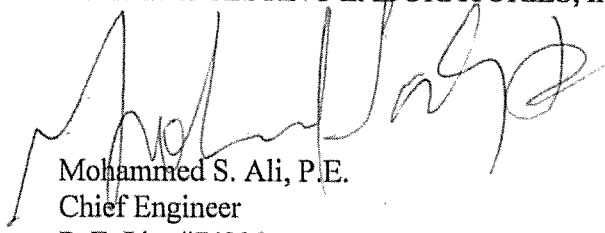
We are pleased to transmit the results of our soils investigation performed for the proposed building at Crystal Beach Boliver, TX.

The soils encountered in the exploration boring possess adequate strength to support the proposed structure.

In addition to our soils engineering capabilities, we can also provide complete concrete and asphalt testing and supervision services and Phase 1 & Phase 2 environmental studies. We would be pleased to work with you during the construction phase of this project.

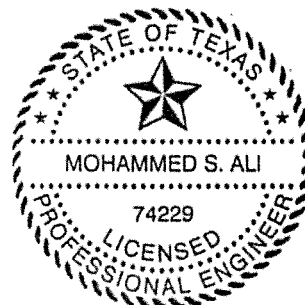
We appreciate the opportunity to assist you in performing this study. If we can be of further assistance for this study or others, please contact us.

Yours very truly,
COASTAL TESTING LABORATORIES, INC.



Mohammed S. Ali, P.E.
Chief Engineer
P. E. Lic. #74229

MSA/mmc



PREFACE

The recommendations presented in this report were formulated on the basis of the soil conditions encountered in the exploration borings, laboratory tests on soil samples obtained from this boring, engineering analysis and interpretation and judgement of the data derived.

Soil conditions other than those encountered in the exploration boring may exist at the site. Although our field technicians visually survey the site for surface expressions indicative of variable soil conditions (fill, borrow or drainage areas, faulting, etc.). Coastal Testing Laboratories, Inc. can not assume responsibility for the results of soil conditions inconsistent with those encountered.

The reproduction of this report or any part thereof, in plans or other documents supplied to persons other than the owner, should bear language indicating that the information contained therein is for general design purposes only and not for bidding purposes, unless so indicated, and that the owner and Coastal Testing Laboratories, Inc. are not liable to such persons for any representation made therein.

Coastal Testing Laboratories, Inc. makes no warranty or representation, either expressed or implied, and none is included or intended in our proposals, contracts or reports, except that our services are performed, within the limits set by our clients, with the usual thoroughness and competence of the engineering profession.

SCOPE AND PURPOSE

In this report we present the results of the soils investigation performed at the site of the proposed building. The purpose of this study was to evaluate the surface and sub-surface soils as related to the design of the foundation system. In particular, it was desirable to evaluate the feasibility of slab-on-grade and suitable type of foundation support for the structure and to provide an allowable soil bearing pressure(s) for design of the recommended foundation type

SITE CONDITIONS

Surface Condition

The surface soils were firm at the time of our investigation and presented no significant problems in moving the drill rig. However, under to inclement weather conditions, the surface soils are likely to become saturated and experience a reduction in shear strength. Therefore, to facilitate construction, the site should be shaped to provide adequate drainage.

Sub- Surface Condition

In accordance with the authorized scope of work, the sub-surface soil conditions were explored by drilling two (2) borings to a depth of 20' beneath the existing ground surface. The locations of the field explorations are shown on Plate 1. The Boring Logs are presented on Plates 2 -3 and a detailed description of the soils is included.

The soils encountered in the borings are typical for this Deltaic Region. Generally, they are geologically recent surface soils composed of combinations of dark gray sand, silt and clay. These Recent soils are underlain by the older geologic formation. This formation typically is multi-colored and consists of silty and sandy clays, clays and clayey silts in color combinations of light gray, tan and red. These cohesive soils frequently are interbedded with layers and lenses of fine to medium sand and silty sand. Typically, these sand layers below a depth of 10 to 15 feet are saturated with water.

The older soils generally possess good to excellent strength properties but vary both horizontally and vertically and thus are not uniform. The compressibility characteristics are good, tending to be over consolidated in the upper portions and approaching normal consolidation with depth.

Sensitivity to moisture (expansive potential) of the surface and near surface soils was evaluated by performing Atterberg Limits Tests on selected samples. The Plasticity Index (PI) obtained for the soils in the top five feet is zero. Any soil with a PI greater than 20 is considered expansive.

Ground water, if encountered, is shown on the boring logs; however, water levels will fluctuate seasonally.

DISCUSSIONS AND RECOMMENDATIONS

General Requirements

We understand that the proposed building will be a one story structure and will impose light loads on the soils.

Utilizing the results of the laboratory tests, engineering analyses were performed. The results of these analyses and the observations of our field personnel form the basis of our recommendations.

Based on the soil conditions encountered in the borings, the site possesses suitable soils to support the proposed structure.

Site Preparation

All surface vegetation should be stripped from the areas to be developed and wasted or stockpiled and used for "top dressing". If the exposed soils (at finished grade) are wet, they should be scarified and allowed to dry. The area should then be proof rolled with a rubber tired vehicle such as a partially loaded dump truck to detect any soft areas. Soft areas should be excavated and back-filled with compacted suitable materials compacted to approximate the surrounding soils. Holes resulting from excavation of stumps or other buried debris should be handled in the same manner. The subgrade should then be compacted to 95% of standard Proctor (ASTM D-698). Site preparation as described, must be carried out prior to any fill placement above the existing ground.

STRUCTURE AND SLAB SUPPORT

Structure Support

Based on the soil conditions encountered in the borings, the structures can be supported on a shallow foundation system. Shallow foundations constructed on a hillside, high fill or next to a body of water must be checked for the possibility of foundation distress caused by possible erosion or landslide triggered by heavy rains/high water table.

Shallow Foundation System

Based on the soil conditions encountered in the borings, a slab-on-grade type foundation system is feasible to support the lightly loaded structure on this site. The allowable bearing pressure is presented below:

Grade Beam Depth (Ft) (Below Existing Grade)	Soil Type	Allowable Bearing Pressures (PSF)
1.5	Silty Sand	900
2.0	Silty Sand	1000

This bearing pressure is for sustained loads and contains an applied safety factor of 3.0. This pressure may be increased by 20 percent for short-term loads such as wind.

The analysis of the field and laboratory data indicates that the following soil parameters may be utilized for design:

1. Depth to Constant Soil Suction: Approx. 9 feet
2. Magnitude of Constant Soil Suction: $pF = 3.4$
3. Design Plasticity Index: 1.0
4. Estimated Cation Exchange Capacity: 24
5. Clay Content: Estimated 30% of Soil Passing #200
6. Thornthwaite Moisture Index: +17
7. Estimated Moisture Velocity: 0.7 In. /Month
8. Allowable Bearing Capacity: See Text
9. Estimated Total Settlement: See Text

10. Estimated Potential Vertical Rise: 0.5"
11. Edge Moisture Variation Distance: (PTI 3)
Center Lift: 9'
Edge Lift: 5.2'
12. Differential Swell:
Center Lift: 0.36"
Edge Lift: 0.17"
13. Climatic Rating (Cw) = 25
14. Principal Clay Mineral: Montmorillonite
15. Support Index: 1.0

The above parameters were calculated based on the stratigraphy of existing soils encountered during our investigation.

With the recommended bearing pressure, total settlement will be less than one (1) inch. Differential settlement will result from variances in subsurface conditions, loading conditions and construction procedures such as cleanliness of the bearing area. It is estimated that the differential settlement will be roughly one-half (1/2) the total settlement.

The estimated moisture variation distance and the differential soil movement do not consider environmental effects, which may change existing conditions beyond the control of Coastal Testing Laboratories, Inc. These conditions include but are not limited to location of shrub beds and trees around the structure and site grading of the lot. Avoid removing large existing trees from the site; plant new trees far enough from the structures. The grading should promote drainage away from the structure.

Disturbance of grade beam bearing area should be minimized during excavation operations. Any soft areas should be over excavated to firm soil and loose material in the trench should be removed before concrete placement.

Spread Footings

The proposed building can also be placed on spread footings at a depth of 4'. The allowable bearing capacity is 2000 PSF (SF=2.0)

Drainage

Site grading should promote positive drainage away from the building site during and after construction (sand should not be used as fill for site grading). Ponding should not be allowed near the foundation soils. Also, the building subgrade should be sealed against water intrusion along trenches and conduits created for utility access under the building.

The upper part of utility excavation should be backfilled with properly compacted clayey soil to reduce and control infiltration of water. A clay plug should be provided in the trench on the exterior of the building to prevent water from gaining access along the trench to the subgrade beneath the structure.

Where paving and flatwork abuts the structure, care should be taken that joint is properly sealed and maintained. Roof drains should discharge on pavement or away from the foundations.

Vegetation

Tree roots remove moisture from the soil. When trees are removed from a construction site, a zone of desiccated soil is left underneath which would gain moisture for many years. If the soil is expansive this will result in expansion. The process has been known to last for as long as 20 years. In such a situation a foundation for the structure must be designed for the anticipated heave. Alternately, the construction on the site should be postponed for several years to allow moisture stabilization.

New trees should not be planted closer than half the canopy diameter of a mature tree. Alternately root barriers must be placed near the exterior grade beams.

If sprinkler systems are used they must be installed all around the structure for uniformity.

Additional Fill Soils and Placement

If the existing grade of the site is to be raised to facilitate drainage or for other purposes, fill soil should be a sandy material with a Liquid Limit below 40 and a Plasticity Index between 7 and 20. To provide proper support for the foundation, it is essential that the fill be properly compacted.

The fill should be placed in maximum lifts of eight inches, measured loose, and compacted to a minimum of 95 percent of Standard Proctor (ASTM D698).

The slab should be bedded on a layer of sand approximately two inches in thickness. A layer of six mil. plastic sheeting should be used above the sand to prevent moisture migration.

General

Reasonable variations from the subsurface information presented in this report are assumed. If conditions encountered during construction are significantly different than those represented in this report, Coastal Testing Laboratories, Inc. should be notified immediately.

A Ground Fault Study is not part of this investigation.

The following Plates are attached at the end of the text and complete this report.

Plate 1	Boring Locations Plan
Plates 2-3	Boring Logs/Tests Results
Plate 4	Key to Soil Symbols

SITE INVESTIGATION

Exploration borings were drilled to evaluate the subsurface soil conditions at the locations shown on Plate 1. These borings were performed with a truck mounted, power driven auger-drilling rig. Cohesive soils were sampled by pushing thin-wall steel core barrels (Shelby Tubes) into natural soil at the bottom of each boring as the drilling progressed (ASTM D-1587). The penetration resistance of each soil sample was evaluated in the field with a field Penetrometer.

Where encountered, cohesionless soils are sampled by means of a split spoon sampler using the Standard Penetration Test procedure (ASTM D-1596). In this method of sampling, the sampler is driven into the soil by means of a 140 lb. hammer dropping thirty inches. The number of such blows required to drive the sampler twelve inches after being seated six inches in the soil is recorded as the penetration resistance in blows per foot. This number is modified in the office to include the effect of overburden as proposed by Bazaraa¹. The modified number is presented in the Logs as N, the penetration resistance in blows per foot. Samples are taken of the contents of the split spoon sampler in each case for further examination in the laboratory.

Samples were taken at intermittent depths from all formations pertinent to the design of the floor system and structural foundations.

¹Bazaraa A. R. (1967) "Use of Standard Penetration Test for Estimating Settlements of Shallow Foundations on Sand" Phd. Thesis, Univ. of Illinois, Urbana, 379 pp.

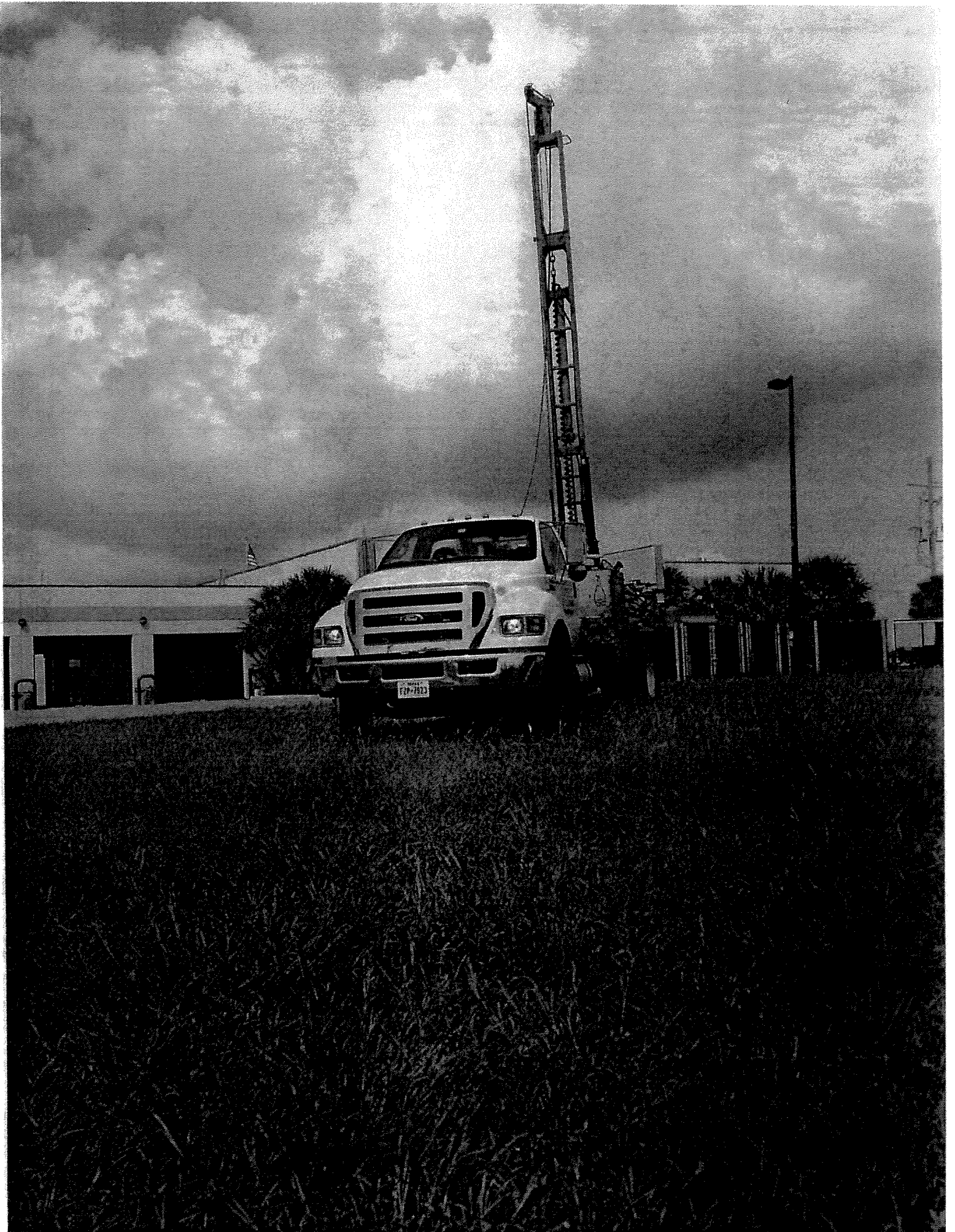
LABORATORY TESTING

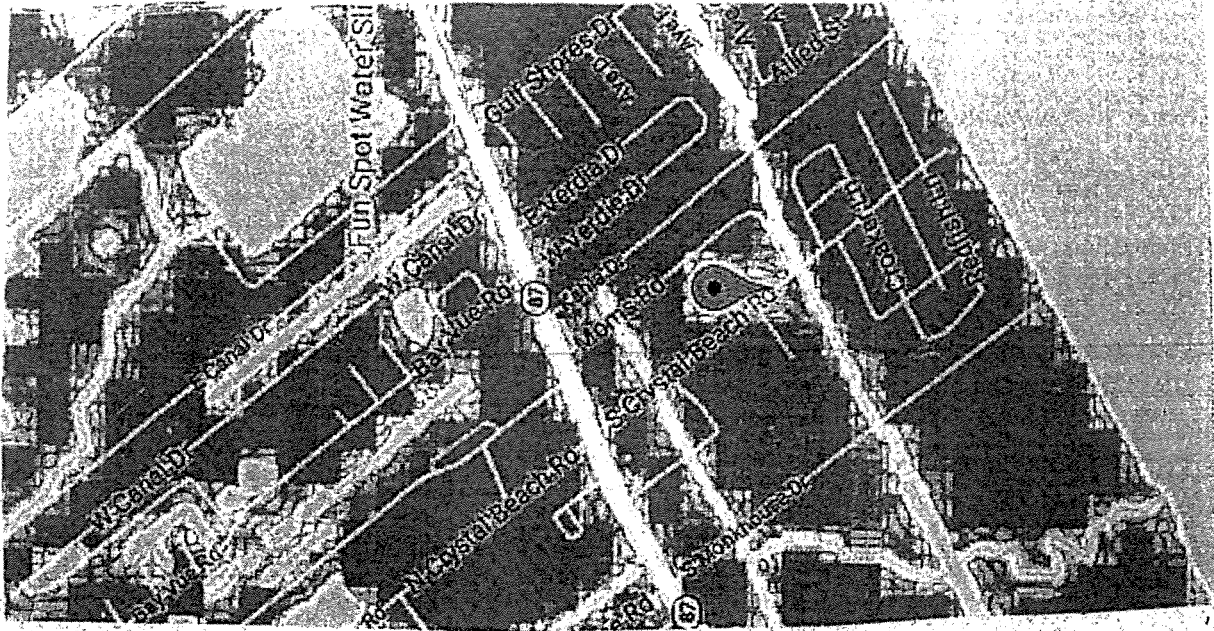
Subsequent to the completion of the borings, the samples were returned to our laboratory for visual and textural examination, soil classification (ASTM D-2487) and testing.

All samples were tested to determine their natural moisture content (ASTM D-2216). Additional tests on selected samples include Sieve Analysis (ASTM D-422), Atterberg Limits (ASTM D-4318) and Unconfined Compression and Density (ASTM D-2166).

The soil samples will be retained in our storage facility for thirty days unless otherwise advised.

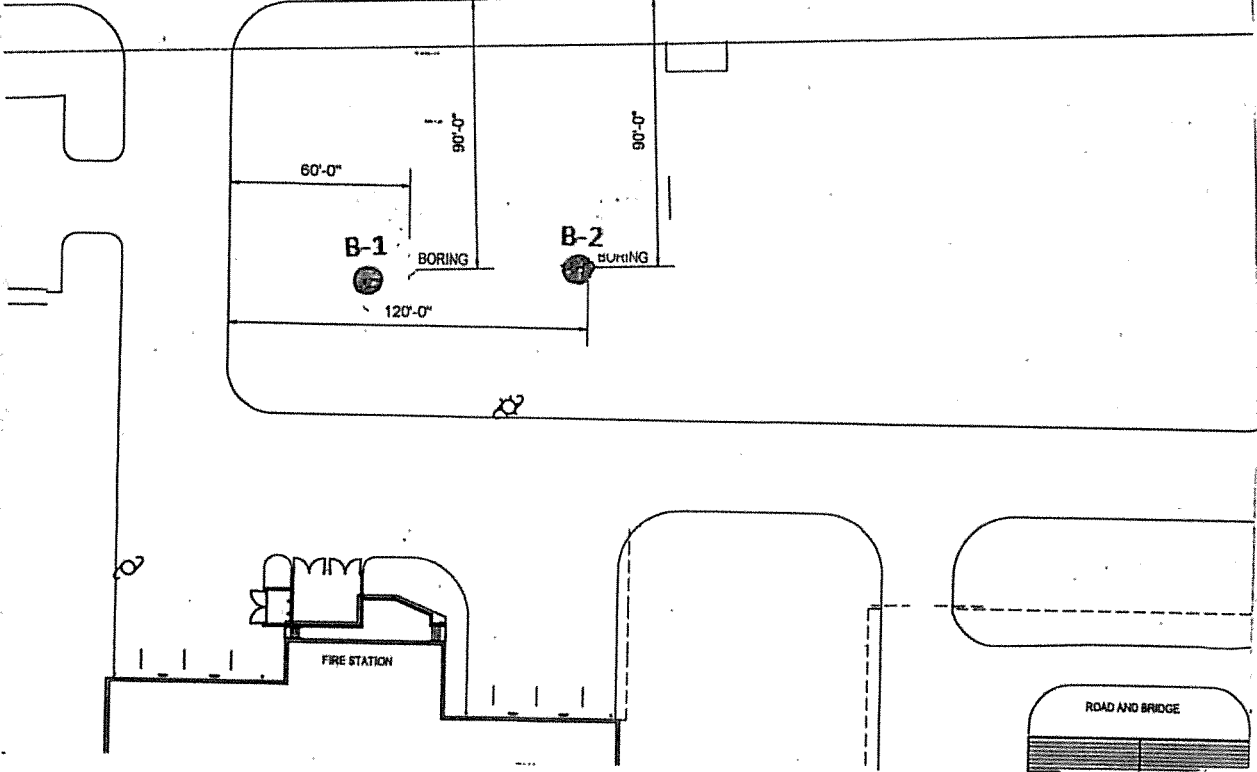
The results of the laboratory tests were incorporated into an engineering analysis. The evaluation of these results and observations made in the field form the basis for recommendations contained herein.





CRYSTAL BEACH ROAD
(80' R.O.W.)

ALL DIMENSIONS
PERPENDICULAR TO
ROAD EDGE



⊕ Borings by Coastal Testing Laboratories, Inc.
NOT TO SCALE

LOG OF BORING NO. 1

Job No:17-300 Report No: 1708/1200 Date: 08/11/17 Driller:P. Stephens
 Complete at: 20' Boring Method: 4" Auger, 3" Shelby Tube
 Water Encountered: 13' Water at Completion: 10'
 Location: S. Crystal Beach Bolivar, TX

Ft.	ST	MC	LL	PI	Dd	GS	TV	HP	Qu	Stratum Description
12.7	A	12.7								Gray Silty Sand (SM)
10.5	A	10.5								
8.6	A	8.6				37.9				
14.9	A	14.9								
16.3	A	16.3								
10'	<hr/>									
28.9	A	28.9				8.7				Gray Sand (SP)
15'										
19.7	A	19.7								
20'										

A - Shelby Tube	ST - Standard Penetration Test	R - red	sa - sandy	lt - light tan
B - Split Spoon	HP - Hand Penetrometer tsf	G - gray	si - silty	fn - ferrous nodules
D - Rock Core	TV - Torvane Shear Strength tsf	T - tan	cl - clay	cn - calcareous nodules
E - No Recovery	GS - % Finer #200 Sieve	w. - with	io - iron ore	cs - calcium sulfat
MC - Moisture Content	Qu - Unconfined Compression tsf	v. - very	org - organics	lg - light gray
LL - Liquid Limit	PI - Plasticity Index	dg - dark gray	cly - clayey	
Dd - Dry Density pcf	SLS - Slickensided			

LOG OF BORING NO. 2

Job No:17-300 Report No: 1708/1200 Date: 08/11/17 Driller:P. Stephens
 Complete at: 20' Boring Method: 4" Auger, 3" Shelby Tube
 Water Encountered: 13' Water at Completion: 10'
 Location: S. Crystal Beach Bolivar, TX

Ft.	ST	MC	LL	PI	Dd	GS	TV	HP	Qu	Stratum Description
— A		13.1								Gray Silty Sand (SM)
— A		8.1								
5' — A		11.1				37.6				
— A		14.7								
— A		12.5								
10'										
<hr/>										
										Gray Sand (SP)
— A		23.2				9.5				
15'										
— A		23.6								
20'										

A = Shelby Tube	ST = Standard Penetration Test	R = red	sa = sandy	lt = light tan
B = Split Spoon	HP = Hand Penetrometer tsf	G = gray	si = silty	fn = ferrous nodules
D = Rock Core	TV = Torvane Shear Strength tsf	T = tan	cl = clay	cn = calcareous nodules
E = No Recovery	GS = % Finer #200 Sieve	w. = with	io = iron ore	cs = calcium sulfat
MC = Moisture Content	Qu = Unconfined Compression tsf	v. = very	org = organics	lg = light gray
LL = Liquid Limit	PI = Plasticity Index	dg = dark gray	cly = clayey	
Dd = Dry Density pcf	SLS = Slickensided			

**KEY TO SOIL DESCRIPTIONS
USED IN LABORATORY LOGS**

COLOR

In color description of sample, the predominate color is stated first.

CONSISTENCY OF COHESIVE SOILS

Field Identification	Laboratory Identification
Very soft - Tall core will slump	0 - 0.25 tsf
Soft - Core can be pinched	0.25 - 0.50 tsf
Firm - Easily imprinted with fingers	0.50 - 1.00 tsf
Stiff - Can be imprinted with fingers	1.00 - 2.00 tsf
Very stiff - Can be imprinted very slightly with fingers	2.00 - 4.00 tsf
Hard - Can not be imprinted with fingers	Over 4.00 tsf

RELATIVE DENSITY OF COHESIONLESS SOILS

Classification by Standard Penetration Resistance:

Loose - 0 - 10 blows/ft	Dense - 30 - 50 blows/ft
Med. Dense - 10 - 30 blows/ft	Very Dense - 50 and above blows/ft

SOIL STRUCTURE

SLS = Slickensided - Cut by old fracture planes which are slick and glossy.

FRC = Fractured - Containing cracks, filled with various materials.

VVD = Varved - Composed of thin laminae of varying color and soil types.

INB = Interbedded - Composed of alternate layers of different soil types.

CLC OR CN = Calcareous - Contains deposits of calcium carbonate.

SECTION 04200
UNIT MASONRY

PART 1 - GENERAL

SECTION 04200 - MASONRY

PART 1 - GENERAL

1.01 DESCRIPTION

- A. Masonry work includes Clay Tile unit masonry and Brick masonry.
- B. Reinforcement, anchorage, and accessories.
- C. Flashings.

1.02 RELATED REQUIREMENTS

- A. Section 03200 - Concrete Reinforcing: Reinforcing steel for grouted masonry.
- B. Section 06100 - Rough Carpentry: Blocking in conjunction with the Work of this Section.
- C. Section 07900 - Joint Sealers: Rod and sealant at control joints.
- D. Section 4212 – Glazed Structural Clay Tile Masonry
- E. Section 08510 - Aluminum Windows: Aluminum windows installed in the Work of this Section.
- F. Section 08910 - Louvers: Louver assemblies installed in the Work of this Section.

1.03 REFERENCE STANDARDS

- A. ACI 530/530.1/ERTA - Building Code Requirements and Specification for Masonry Structures; American Concrete Institute International; 2009.
- B. ASTM A82/A82M - Standard Specification for Steel Wire, Plain, for Concrete Reinforcement; 2007.
- C. ASTM A153/A153M - Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware; 2009.
- D. ASTM A615/A615M - Standard Specification for Deformed and Plain Billet-Steel Bars for Concrete Reinforcement; 2009b.
- E. ASTM A641/A641M - Standard Specification for Zinc-Coated (Galvanized) Carbon Steel Wire; 2009a.
- F. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 2010.
- G. ASTM C34 - Standard Specification for Structural Clay Load-Bearing Wall Tile; 2010.
- H. ASTM C56 - Standard Specification for Structural Clay Nonloadbearing Tile; 2010.
- I. ASTM C67 - Standard Test Methods for Sampling and Testing Brick and Structural Clay Tile; 2009.
- J. ASTM C216 - Standard Specification for Facing Brick (Solid Masonry Units Made From Clay or Shale); 2010.
- K. ASTM C652 - Standard Specification for Hollow Brick (Hollow Masonry Units Made From Clay or Shale); 2010.
- L. UL (FRD) - Fire Resistance Directory; Underwriters Laboratories Inc.; current edition.

1.04 SUBMITTALS

- A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
- B. Product Data: Provide data for decorative masonry units and fabricated wire reinforcement.
- C. Samples: Submit four samples of face brick units to illustrate color, texture and extremes of color range.
- D. Manufacturer's Certificate: Certify that products meet or exceed specified requirements.

1.05 QUALITY ASSURANCE

- A. All work shall conform to the standards of the Brick Institute of America and to codes having jurisdiction.
- B. Do not lay units that are wet or frozen.
- C. All brick shall be from a single manufacturer's production run.
- D. Mortar and Grout Testing:
 - 1. Test each type of mortar in conformance with ASTM C 780-00.
 - 2. Test grout in each type of wall construction in conformance with ASTM C 1019
 - 3. Inspect cores of fully grouted masonry reinforcing.
- E. Comply with provisions of ACI 530/530.1/ERTA, except where exceeded by requirements of the contract documents.

1.06 DELIVERY, STORAGE, AND HANDLING

- A. Deliver, handle, and store masonry units by means that will prevent mechanical damage and contamination by other materials.

PART 2 - PRODUCTS

2.01 SOLID BRICK:

- A. Manufacturers:
 - 1. D'hanis 311 E Nakoma Dr, San Antonio, TX
 - 2. Brick must be the same color as the Clay Tile Masonry
 - 3. Substitutions: See Section 01 60 00 - Product Requirements.
- B. Hollow Clay Structural Brick: ASTM C 652, Grade SW; Type HBS; Class H40V.
 - 1. Compressive strength: 11,000 psi, measured in accordance with ASTM C67.
 - 2. Compressive strength: 11,000 psi, measured in accordance with ASTM C67.
 - 3. Special shapes: Molded units as required for lintels, unless standard units can be sawn to produce equivalent effect.
 - 4. Provide soldier units with adjacent side finish at end units.

2.02 CLAY TILE MASONRY:

- A. Manufacturers:
 - 1. D'hanis 311 E Nakoma Dr, San Antonio, TX
 - 2. Clay Tile Masonry must be the same color as the Solid Brick
 - 3. Substitutions: See Section 01 60 00 - Product Requirements.

B. Provide hollow load bearing block complying with ASTM C126 - 16

1. ~~Size: Nominal 16" long x 8" high x 8" wide or 12" wide~~ Size Nominal 12" Long x 8" high x 8" wide or 12" Long x 8" high x 4" wide. Two wythes required to make 12" thick wall. 1/3 Running bond.

2.03 MORTAR AND GROUT:

A. Provide mortar and grout complying with ASTM C 270 or ASTM C476 (for reinforced masonry) and requirements of architect of record. Type S based on proportion specification.

B. MORTAR MATERIALS:

1. Portland cement; ASTM C 150, type I.
2. Masonry cement: ASTM C 91.
3. Hydrated lime: ASTM C207, type S
4. Sand; ASTM C 144
5. Aggregates for grout ASTM C 404
6. Mortar color pigment: none
7. Admixture: anti-freeze compounds or those containing chlorides are prohibited.
 - a. Provide Grace Masonry Products DRY-BLOCK™ mortar admixture at all single wythe concrete masonry unit and hollow brick masonry walls.
8. Water: drinkable.

C. Joint Reinforcement: Provide zinc coated (galvanized) steel wire, ASTM C 641 for zinc coating, type as required by the architect of record.

D. Corrugated wall ties are prohibited.

E. Miscellaneous Materials: Flashing, control/expansion joint materials as required by architect of record.

1. Acceptable concealed flexible flashing: 3 oz copper sheet bonded between two layers of asphalt waterproofed creped kraft paper, EPDM thru-wall flashing (40 mil min.). .

2.04 ACCESSORIES

A. Preformed Control Joints: Neoprene material. Provide with corner and tee accessories, fused joints.

1. 1. Manufacturers:

- a. WIRE-BOND: www.wirebond.com.
- b. Substitutions: See Section 01 60 00 - Product Requirements.

B. Joint Filler: Closed cell polyvinyl chloride; oversized 50 percent to joint width; self expanding; in maximum lengths available.

1. Manufacturers:

- a. Dur-O-Wal: www.dur-o-wal.com.
- b. WIRE-BOND: www.wirebond.com.

2. Substitutions: See Section 01 60 00 - Product Requirements.
- C. Nailing Strips: Preservative treated softwood, as specified in Section 06 10 00.
- D. Cleaning Solution: Non-acidic, not harmful to masonry work or adjacent materials.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Verify that field conditions are acceptable and are ready to receive masonry.
- B. Verify that related items provided under other sections are properly sized and located.
- C. Verify that built-in items are in proper location, and ready for roughing into masonry work.

3.02 PREPARATION

- A. Direct and coordinate placement of metal anchors supplied for installation under other sections.
- B. Provide temporary bracing during installation of masonry work. Maintain in place until building structure provides permanent bracing.

3.03 COURSING

- A. Establish lines, levels, and coursing indicated. Protect from displacement.
- B. Maintain masonry courses to uniform dimension. Form vertical and horizontal joints of uniform thickness.
- C. Brick Units:
 1. Bond: Running.
 2. Coursing: Three units and three mortar joints to equal 8 inches.
 3. Mortar Joints: Weather Struck.

3.04 PLACING AND BONDING

- A. Lay hollow masonry units with face shell bedding on head and bed joints.
- B. Buttering corners of joints or excessive furrowing of mortar joints is not permitted.
- C. Remove excess mortar as work progresses.
- D. Interlock intersections and external corners.
- E. Do not shift or tap masonry units after mortar has achieved initial set. Where adjustment must be made, remove mortar and replace.
- F. Perform job site cutting of masonry units with proper tools to provide straight, clean, unchipped edges. Prevent broken masonry unit corners or edges.
- G. Isolate masonry partitions from vertical structural framing members with a control joint as indicated.
- H. Isolate top joint of masonry partitions from horizontal structural framing members and slabs or decks with compressible joint filler.

3.05 REINFORCEMENT AND ANCHORAGE

- A. Install horizontal joint reinforcement 16 inches on center.
- B. Place masonry joint reinforcement in first and second horizontal joints above and below openings. Extend minimum 16 inches each side of opening.
- C. Place continuous joint reinforcement in first and second joint below top of walls.
- D. Lap joint reinforcement ends minimum 14 inches.
- E. Reinforce joint corners and intersections with strap anchors 16 inches on center.
- F. Install vertical reinforcement in grouted cells per structural notes and drawings.

3.06 MASONRY FLASHINGS

- A. Whether or not specifically indicated, install masonry flashing to divert water to exterior at all locations where downward flow of water will be interrupted.
 - 1. Extend flashings full width at such interruptions and at least 4 inches into adjacent masonry or turn up at least 4 inches to form watertight pan at non-masonry construction.
 - 2. Remove or cover protrusions or sharp edges that could puncture flashings.
 - 3. Seal lapped ends and penetrations of flashing before covering with mortar.
- B. Extend metal flashings through exterior face of masonry and turn down to form drip.
- C. Lap end joints of flashings at least 4 inches and seal watertight with mastic or elastic sealant.

3.07 LINTELS

- A. Install reinforced unit masonry lintels over openings.
 - 1. Openings to 42 inches: Place two, No. 3 reinforcing bars 1 inch from bottom web.
 - 2. Openings from 42 inches to 78 inches: Place two, No. 5 reinforcing bars 1 inch from bottom web.
 - 3. Do not splice reinforcing bars.
 - 4. Support and secure reinforcing bars from displacement. Maintain position within 1/2 inch of dimensioned position.
 - 5. Place and consolidate grout fill without displacing reinforcing.
 - 6. Allow masonry lintels to attain specified strength before removing temporary supports.
- B. Maintain minimum eight inch bearing on each side of opening.

3.08 GROUTED COMPONENTS

- A. Walls are to be fully grouted solid.
- B. Support and secure reinforcing bars from displacement. Maintain position within 1/2 inch of dimensioned position.
- C. Place and consolidate grout fill without displacing reinforcing.

3.09 CONTROL AND EXPANSION JOINTS

- A. Do not continue horizontal joint reinforcement through control and expansion joints.

3.10 BUILT-IN WORK

- A. As work progresses, install built-in metal door frames and other items to be built into the work and furnished under other sections.
- B. Install built-in items plumb, level, and true to line.
- C. Bed anchors of metal door and glazed frames in adjacent mortar joints. Fill frame voids solid with grout.
- D. Do not build into masonry construction organic materials that are subject to deterioration.

3.11 TOLERANCES

- A. Maximum Variation from Unit to Adjacent Unit: 1/16 inch.
- B. Maximum Variation from Plane of Wall: 1/4 inch in 10 ft and 1/2 inch in 20 ft or more.
- C. Maximum Variation from Plumb: 1/4 inch per story non-cumulative; 1/2 inch in two stories or more.
- D. Maximum Variation from Level Coursing: 1/8 inch in 3 ft and 1/4 inch in 10 ft; 1/2 inch in 30 ft.
- E. Maximum Variation of Joint Thickness: 1/8 inch in 3 ft.
- F. Maximum Variation from Cross Sectional Thickness of Walls: 1/4 inch.

3.12 CUTTING AND FITTING

- G. Cut and fit for chases, pipes, conduit, and sleeves. Coordinate with other sections of work to provide correct size, shape, and location.
- H. Obtain approval prior to cutting or fitting masonry work not indicated or where appearance or strength of masonry work may be impaired.

3.13 FIELD QUALITY CONTROL

- A. Provide daily observation of all aspects of the masonry installation.

3.14 CLEANING

- A. Remove excess mortar and mortar smears as work progresses.
- B. Replace defective mortar. Match adjacent work.
- C. Clean soiled surfaces with manufactured recommended cleaning solution. Apply cleaning solution in strict accordance with solution manufacturers written instructions. Do not use muriatic acid. Do not sandblast.
- D. Use non-metallic tools in cleaning operations.

3.16 PROTECTION

- A. Without damaging completed work, provide protective boards at exposed external corners that are subject to damage by construction activities.

END OF SECTION

SECTION 12705**FURNITURE****PART 1 GENERAL****1.1 REFERENCES**

The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by the basic designation only.

AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)
ANSI Z97.1 (1984; R 1994) Safety Performance Specifications and Methods of Test for Safety Glazing Materials Used in Buildings

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)
ASTM E 84 (2000a) Surface Burning Characteristics of Building Materials
ASTM E 290 (1997a) Bend Testing of Material for Ductility

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)
NFPA 101 (2000) Life Safety Code
NFPA 255 (2000) Method of Test of Surface Burning Characteristics of Building Materials

UNDERWRITERS LABORATORIES (UL)
UL 723 (1996; Rev thru Dec 1998) Test for Surface Burning Characteristics of Building Materials

1.2 GENERAL

This specification establishes the minimum requirements for the acquisition and installation of a complete and usable system of furniture and accessories. Furniture requirements and configurations shall be in accordance with the description specified herein. Furniture shall be provided by a single manufacturer and shall be a standard product as shown in the most recent published price lists or amendments. This specification may include items which are not manufactured by the furniture manufacturer; any such items shall be furnished by the Contractor under this section.

1.3 SUBMITTALS**Product Data****Installation Instructions:**

Manufacturer's product and construction specifications which provide technical data for furniture system and components specified, including task lighting and illumination performance information. Literature shall include adequate information to verify that the proposed product meets the specification.

Warranty:

Two copies of the warranty.

Samples:

Two sets of the following finish samples.

a. Plastic Laminate

Operation and Maintenance Data

Product Assembly Manual

One set of assembly manuals describing assembly procedures.

Product Maintenance Manuals:

One set of maintenance manuals describing proper cleaning and minor repair procedures.

1.4 DELIVERY, STORAGE, AND HANDLING

Components shall be delivered to the jobsite in the manufacturer's original packaging with the brand, item identification, and project reference clearly marked thereon.

Components shall be stored in a dry location that is adequately ventilated and free from dirt and dust, water, and other contaminants, and in a manner that permits easy access for inspection and handling.

1.5 PATTERN AND COLOR

Pattern and color of laminate, wood, and metal finishes shall be selected from manufacturer's full line including all options.

1.7 WARRANTY

The Contractor shall warrant the furniture systems for a period of 5 years. Warranties shall be signed by the authorized representative of the manufacturer. Warranties accompanied by document authenticating the signer as an authorized representative of the guarantor, shall be presented to the Contracting Officer upon the completion of the project. The Contractor shall guarantee that the workstation products and installation are free from any defects in material and workmanship from the date of delivery.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable manufacturers:
- a. Herman Miller
 - b. Midmark
 - c. Or approved equal

2.1.1 PERFORMANCE AND SAFETY REQUIREMENTS

Furniture shall meet testing as specified. ISO 9001 certified manufacturers may perform in-house testing. Manufacturers not ISO 9001 qualified shall be required to produce testing by an independent testing laboratory. Component specific requirements are listed in appropriate paragraphs.

2.1.2 Fire Safety

Components shall meet requirements for flame spread and smoke development as specified by NFPA 101 except as follows. Testing shall have been conducted in accordance with either ASTM E 84, UL 723, or NFPA 255 on the entire assembly.

2.1.4 General Safety

Products shall be free of rough or sharp edges.

2.3 Furniture

A. Medical Treatment Table

- a. Basis of Design: Ritter 203-002 Treatment Table
- b. Chair materials - plastic.
 - i. Finishes
Selected from Manufacturers full line.
Include Optional Lockable Casters

B. Stackable Chairs

- a. Basis of Design: Herman Miller Magis Chair First Outdoor
- b. Chair materials - plastic.
 - i. Finishes
Finish for plastic shall be natural.

C. Service Chairs

- a. Basis of Design: Herman Miller Celle® Chair
- b. Chair materials – plastic and fabric
 - i. Finishes
Selected from Manufacturers full line.

~~D. Desk~~

- ~~a. Basis of Design: Herman Miller Celle® Chair~~
- ~~b. Chair materials – plastic and fabric~~
 - ~~i. Finishes~~
~~Selected from Manufacturers full line.~~

2.4 Schedule of furniture

Medical Exam Table (1)
Stackable Chairs (12)
Service Chairs (6)

PART 3 EXECUTION

3.1 INSTALLATION

The furniture shall be installed by certified installers in accordance with manufacturer's recommended installation instructions. Furniture components shall be installed level, plumb, square, and with proper alignment with adjoining furniture. The components shall be securely interconnected and securely attached to the building where required.

3.2 CLEANING

Upon completion of installation, all products shall be cleaned and polished and the area shall be left in a clean and neat condition. Any defects in material and installation shall be repaired, and damaged products that cannot be satisfactorily repaired shall be replaced.

END OF SECTION



THE COUNTY OF GALVESTON

RUFUS G. CROWDER, CPPO, CPPB
PURCHASING AGENT

GWEN MCLAREN, CPPB
ASST. PURCHASING AGENT

COUNTY COURTHOUSE
722 Moody (21st Street)
Fifth (5th) Floor
GALVESTON, TEXAS 77550
(409) 770-5371

March 23, 2018

PROJECT NAME: Bolivar Beach Pavilion

BID NO: B181016

RE: ADDENDUM #3

To All Prospective Proposers,

The following information is being provided to aid in preparation of your proposal submittal(s):

REVISED BID OPENING DATE:

Due to the amount of inquiries received, the bid opening date has been revised. The new bid opening date is as follows:

Date: Wednesday, April 4, 2018

Time: 2:00 P.M.

CORRECTION:

On sheet M1.0 Keyed Note #4 Provide 6" flex drop for IT closet. The note should read "Provide 6" hard round helical duct for IT closet."

Question #1: *My lumber supplier called about the trellis material. He reads the trellis material to be treated pine and the 2 x 12 trellis members are full length about 34'. I think he said they can do a special run for the 34' foot but will cost more. Also the long length in treated pine boards will not be straight and could vary over 5" from end to end, and would probably get worse over time. He suggests using western red cedar or fir but they will still have issues with being straight but not nearly as bad as pine.*

Response: On Sheet S3.01 The Trellis Framing shows an east-west span of 34'-0". Attached is a sketch that details the mid span sistering/splice of the two rafters. Wood species is unchanged. See attachment A sketch dated March 21, 2018.

Question #2: *I took a look at the plans and there is no way I can warranty the vapor barrier on the duct insulation for 5 years.*

Response: The 5-year warranty on the duct vapor barrier is a project requirement.

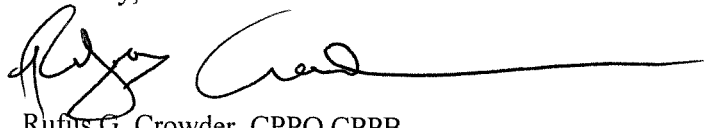
As a reminder, all questions regarding this proposal must be submitted in writing to:

Rufus G. Crowder, CPPO CPPB
Galveston County Purchasing Agent
722 Moody, Fifth (5th) Floor
Galveston, Texas 77550
E-mail: rufus.crowder@co.galveston.tx.us

If you have any further questions regarding this proposal, please address them to Rufus Crowder, CPPO CPPB, Purchasing Agent, via e-mail at rufus.crowder@co.galveston.tx.us, or contact the Purchasing Department at (409) 770-5371.

Please excuse us for any inconvenience that this may have caused.

Sincerely,

A handwritten signature in black ink, appearing to read 'Rufus Crowder', with a long horizontal flourish extending to the right.

Rufus G. Crowder, CPPO CPPB
Purchasing Agent
Galveston County

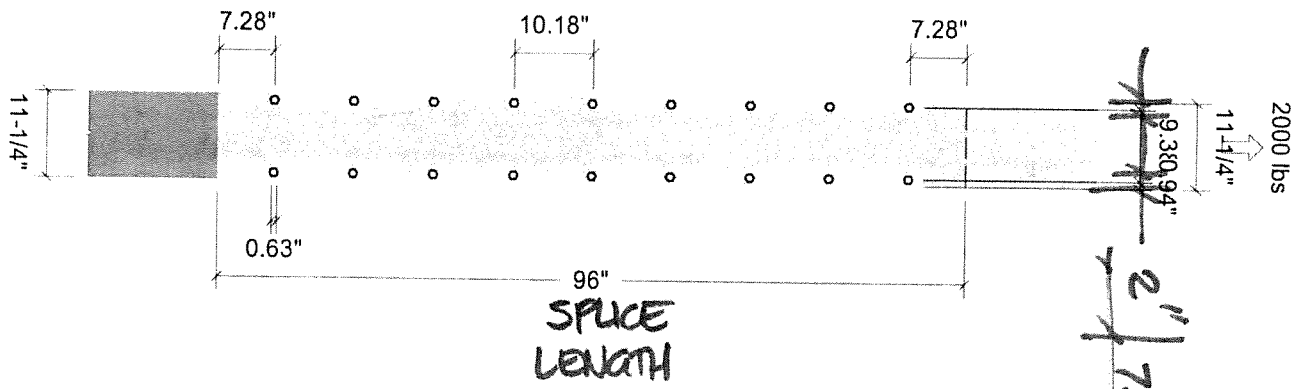
17-217

WoodWorks® Connections SOFTWARE FOR WOOD DESIGN

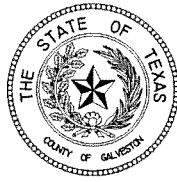
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WoodWorks® Connections 11.0

Mar. 21, 2018 13:36:47



(8) 5/8" BOLTS
(2) ROWS



THE COUNTY OF GALVESTON

RUFUS G. CROWDER, CPPO, CPPB
PURCHASING AGENT

GWEN MCLAREN, CPPB
ASST. PURCHASING AGENT

COUNTY COURTHOUSE
722 Moody (21st Street)
Fifth (5th) Floor
GALVESTON, TEXAS 77550
(409) 770-5371

March 29, 2018

PROJECT NAME: Bolivar Beach Pavilion

BID NO: B181016

RE: ADDENDUM #4

The following information is being provided to aid in preparation of your proposal submittal(s):

To All Prospective Proposers,

Attached you will find Addendum #4 for RFP #B181016, Bolivar Beach Pavilion.

As a reminder, all questions regarding this proposal must be submitted in writing to:

Rufus G. Crowder, CPPO CPPB
Galveston County Purchasing Agent
722 Moody, Fifth (5th) Floor
Galveston, Texas 77550
E-mail: rufus.crowder@co.galveston.tx.us

If you have any further questions regarding this proposal, please address them to Rufus Crowder, CPPO CPPB, Purchasing Agent, via e-mail at rufus.crowder@co.galveston.tx.us, or contact the Purchasing Department at (409) 770-5371.

Please excuse us for any inconvenience that this may have caused.

Sincerely,

A handwritten signature in black ink, appearing to read "Rufus G. Crowder", followed by a long horizontal line extending across the page.

Rufus G. Crowder, CPPO CPPB
Purchasing Agent
Galveston County

Bolivar Beach Pavilion

Addendum 4

Question:

1. It is indicated that on 07542-page 3-1.07-B. you are requesting .080 UltraPly Platinum TPO, and on (07542-page 5-2.03-A.-1) it indicates .060 UltraPly TPO. Please indicate what product is required.

Response:

.080 UltraPly Platinum TPO

Question:

2. On 07542-page 4-2.01-C. States that roof edge metal is required to be the same as the membrane manufacturer.
 - a. Firestone(Metal-Era) does not produce any Terne or TCS products. Please indicate what material, gage, and finish is required.
 - b. Firestone(Metal-Era) does not have any products matching the profile of the drip edge/ gravel guard show on the detail drawings for the high roof. Please indicate what product you are requiring

Response:

07542 2.01 C Should Read

07542 2.01 C Manufacturer of Metal Roof Edging:

1. Field or shop-fabricated metal roof edging are acceptable
2. Flashings to be sealed with welded details only

Refer to 07600 for Flashing Specifications

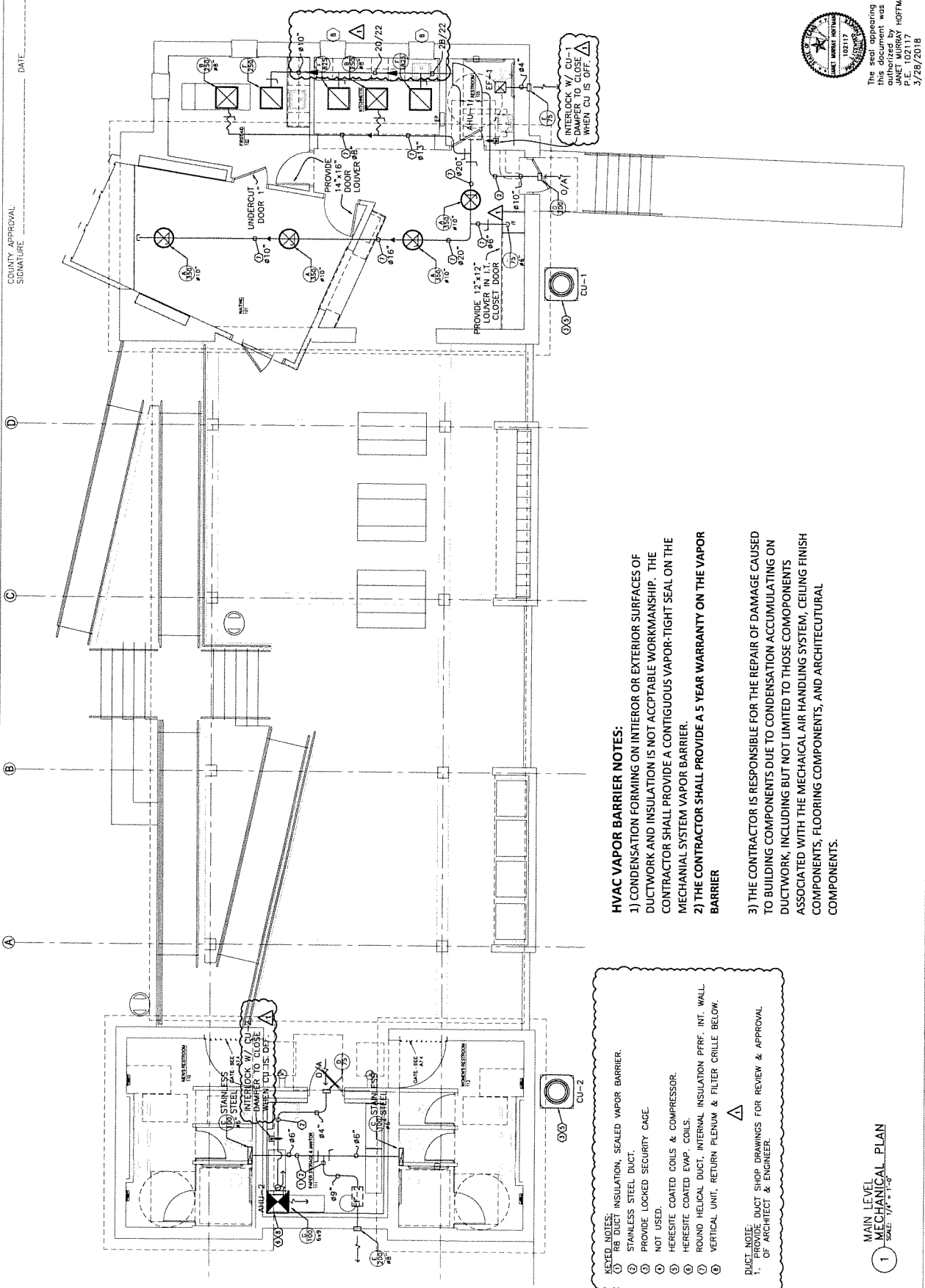
Question:

On Sheet M2.0 in the fans subsection remarks it in references RTU-2. Please confirm if there are any RTU that are not shown and their size.

Response:

A revised M1.0 and M2.0 are attached

COUNTY APPROVAL
SIGNATURE _____ DATE _____



- HVAC VAPOR BARRIER NOTES:**
- 1) CONDENSATION FORMING ON INTERIOR OR EXTERIOR SURFACES OF DUCTWORK AND INSULATION IS NOT ACCEPTABLE WORKMANSHIP. THE CONTRACTOR SHALL PROVIDE A CONTIGUOUS VAPOR-TIGHT SEAL ON THE MECHANICAL SYSTEM VAPOR BARRIER.
 - 2) THE CONTRACTOR SHALL PROVIDE A 5 YEAR WARRANTY ON THE VAPOR BARRIER
 - 3) THE CONTRACTOR IS RESPONSIBLE FOR THE REPAIR OF DAMAGE CAUSED TO BUILDING COMPONENTS DUE TO CONDENSATION ACCUMULATING ON DUCTWORK, INCLUDING BUT NOT LIMITED TO THOSE COMPONENTS ASSOCIATED WITH THE MECHANICAL AIR HANDLING SYSTEM, CEILING FINISH COMPONENTS, FLOORING COMPONENTS, AND ARCHITECTURAL COMPONENTS.

KEYED NOTES:

- 1) R8 DUCT INSULATION, SEALED VAPOR BARRIER.
- 2) STAINLESS STEEL DUCT.
- 3) PROVIDE LOCKED SECURITY CAGE.
- 4) NOT USED.
- 5) HERESITE COATED COILS & COMPRESSOR.
- 6) HERESITE COATED EVAP. COILS.
- 7) ROUND HELICAL DUCT, INTERNAL INSULATION PFRF. INT. WALL.
- 8) VERTICAL UNIT, RETURN PLENUM & FILTER CRILLE BELOW.

DUCT NOTE:
1. PROVIDE DUCT SHOP DRAWINGS FOR REVIEW & APPROVAL OF ARCHITECT & ENGINEER.

1 MAIN LEVEL MECHANICAL PLAN
SCALE: 1/4" = 1'-0"

The seal appearing on this document was authorized by
JANET MURRAY HOFFMAN
P.E. 102117
3/28/2018

FOR PERMIT

DATE: 3/28/18
REVISION: REVISED

DESIGN DEVELOPMENT

DATE ISSUED: 3/28/2018
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M1.0

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BE-Arc LLC Project No: C-13-007.01

