

May 8, 2019

ADDENDUM ACKNOWLEDGEMENT FORM

To Whom It May Concern:

Concerning the **PSJA ISD CARMAN ELEMENTARY SCHOOL AND SANTOS LIVAS ELEMENTARY SCHOOL PLAYGROUND IMPROVEMENTS BID # 18-19-049**, to be opened at 4:00 p.m., Tuesday, May 21, 2019. Please consider the following:

Addendum Number:	Description of REVISED Addendum:
1	QUESTIONS AND ANSWERS ADDITIONS / CLARIFICATIONS / CORRECTIONS / SUBSTITUTIONS PRE-BID AGENDA AND SIGN-IN SHEETS

For any questions pertaining to these changes, please contact Emily Garza, Director of Purchasing at (956) 354-2000.

Sincerely,



Emily Garza
Director of Purchasing

With the acceptance of this form, I acknowledge that I have received the above ***“ADDENDUM ACKNOWLEDGEMENT FORM”*** for the **PSJA ISD CARMAN ELEMENTARY SCHOOL AND SANTOS LIVAS ELEMENTARY SCHOOL PLAYGROUND IMPROVEMENTS BID # 18-19-049**, to be opened at 4:00 p.m., Tuesday, May 21, 2019. Please include a signed copy of this ***“ADDENDUM ACKNOWLEDGMENT FORM”*** with your bid/proposal.

Company Name:	_____	Authorized Signature:	_____
Address:	_____ _____	Authorized Signature (Print):	_____
City / State / Zip:	_____	Email:	_____
Telephone Number:	_____	Fax Number:	_____

START COLLEGE NOW! COMPLETE EARLY! GO FAR!

ADDENDUM # 1

Date: May 07, 2019

PROJECT: P S J A I. S. D.
Carman Elementary School & Santos Livas
Elementary School Playground Improvements
Bid # 18-19-049

ARCHITECT: EGV Architects, Inc.
220 S. Bridge
Hidalgo, TX 78557
(956) 843-2987



This addendum applies to work designated herein, shall be understood to be and as such shall be part and is included in the contract.

ITEM #1 Information, Pre Bid Agenda and Sign-In Sheets

- Refer to attached Pre-Bid Meeting Agenda and Sign-in Sheets labeled **ATTACHMENT #1** (3 pages).

ITEM #2 Information, Dates and Times

- Last Day for Questions: Thursday, May 16, 2019, before 10:00 am.
- Electronic Bid Due Date: Tuesday, May 21, 2019, before 4:00 pm

ITEM #3 Questions / Requests for Substitutions

- Refer to attached questions and answers page labeled **ATTACHMENT #2** (1 page).

ITEM #4 Correction, Specifications Section 00300, Page 1

- Electronic Bid Due Date is **Tuesday, May 21, 2019, at 4:00 pm** in lieu of that stated on the header of this sheet.

ITEM #5 Deletion, Specifications, Table of Contents

- Delete the following sections from the table of contents only:
 - 02731 INFIELD AND WARNING TRACK SURFACING
 - 02900 LANDSCAPE PLANTING
 - 02930 TURFGRASS
 - 02975 LANDSCAPE IRRIGATION SYSTEM
- The specification sections listed above are found under Appendix "C" Landscape and Irrigation Specifications.

ITEM #6 Clarifications, Specifications Section 01010

Item 1.19 Project Sign (page 4 of section 01010)

- Provide and erect a 4' x 4' sign at each campus as per attached templates labeled **ATTACHMENT #3** (2 pages). Logos must be in color as per attached templates.

Item 1.20 Temporary Field Office (page 5 of section 01010)

- Only one (1) jobsite field office and one (1) job superintendent is required if one contractor gets awarded both projects.
- If two different contractors are awarded one project, then each shall provide a temporary field office and superintendent for their project.
- Telephone communication via cell phone shall suffice.

NOTIFICATION: It is the responsibility of the General Contractor to notify all of his subcontractors of the contents of all addenda.

ADDENDUM # 1

ITEM #7 Addition, Specifications Section 01700, Project Closeout

- Insert herein attached specification 01700 Project Closeout labeled **ATTACHMENT #4** (5 pages) between specification sections 01410 and 01740.

ITEM #8 Addition, Specifications Section 10522 Fire Extinguishers

- Insert herein attached specification 10522 Fire Extinguishers labeled **ATTACHMENT #5** (2 pages) between specification sections 10440 and 10800.

ITEM #9 Addition, Specifications, 11660 Outdoor Equipment

- Add playground equipment to Carman Elementary School only, as per attached sheets labeled **ATTACHMENT #6** (3 pages).

ITEM #10 Substitution, Drawings, Sheets AC1.2, Detail 5

- Substitute Detail 5 on Sheet AC1.2 with the attached Detail 5 labeled **ATTACHMENT #7** (1 page).

ITEM #11 Correction, Drawings, Sheets AC1.2, Details 2, 3 and 5

- Detail 2: Refer to Specification Section 11660 for Outdoor Fitness Equipment.
- Detail 3: Refer to Specification Section 11660 for Batting Cages.
- Detail 5: Refer to corrected Detail 5 labeled Attachment #7, as per Item 10 above for revised information.

ITEM #12 Clarification, Drawings, Sheets CC2, CC3, CC4, CC6

- No soccer fields or soccer field equipment will be required for this project.

ITEM #13 Clarification, Drawings, Sheet AC1.1 Existing Parking Lot

- Existing parking lot to be scarified and removed as per Civil drawings.
- The parking lot sidewalk is different on the architectural plans and the civil plans. Follow Civil plans for correct dimensions.

ITEM #14 Clarification, Civil Plans

- General Contractor shall hire an Engineer/Surveyor to layout the project and Melden and Hunt shall provide a CAD drawing to the Engineer/Surveyor that the General Contractor hires.
- Melden and Hunt shall set a benchmark at each site.

ITEM #15 Addition, Structural Addendum

- Refer to attached structural addendum labeled **ATTACHMENT #8** (2 sheets) for addition of Sheet S1.0.

**P S J A I. S. D. CARMAN ELEMENTARY SCHOOL AND SANTOS LIVAS
ELEMENTARY SCHOOL PLAYGROUND IMPROVEMENTS**

BID #18-19-049

PRE-BID MEETING

May 7, 2019 at 10:00 am

BID OPENING:	May 21, 2019, at 4:00 pm
PLACE OF OPENING:	P.SJ.A. I. S. D. Administration Building, Room # 205 601 E. Kelly Pharr, TX 78577
ARCHITECT:	E G V Architects, Inc. 220 S. Bridge Hidalgo, TX 78557 (956) 843-2987

1. BID REQUIREMENTS: Each bid must be submitted electronically.

The following items must be uploaded with the bid package, with the exception of those indicated to be turned in before.

- A. Bid Form (Section 00200)
- B. Bid Bond (surety co. shall be licensed in the State of Texas and Treasury listed).
- C. List of Subcontractors
- D. Contractor's Pre-bid Disclosure Statement (Section 00400) Due 5 working days before bid opening. **This form must be emailed. Do not upload to PSJA website.**
- E. PSJA ISD General Provisions
- F. Form A- Notice of Invitation to Bid
- G. Form B- Deviations from Specifications or General Terms & Conditions / Compliance Signature Form
- H. Form C- Bidder Preference / Texas Family Code Certification
- I. Form D- Historically Underutilized Business (HUB) Certification
- J. Form E- Supplier Diversity Form
- K. Form F- Instructions to School District Contractors Regarding Criminal History Background Searches Under Senate Bill 9
- L. Form G- Felony Conviction Disclosure Statement
- M. Form H- Form for Authorization of Electronic Direct Deposit

2. SPECIAL REQUIREMENTS:

- A. Bidder is responsible for printing hard copies of the plans, if needed. Owner will provide PDF format only.
- B. Contractor shall be familiar with the Evaluation Factors & Criteria for preparation of proposal.
- C. Addendum # 1 is pending.
- D. Liquidated damages: Refer to A101 Standard Form of Agreement Between Owner and Contractor, Section 3.4.
- E. Refer to Specifications Section 01010 Summary of Work, Items 1.18 and 1.29 for substitution guidelines.
- F. Refer to Specifications, Section 01010 item 1.19 for project signs. Templates for each school will be provided with Addendum #1.

3. GENERAL REQUIREMENTS:

- A. General conditions and special conditions to the Contract.
- B. If a conflict arises, contact the Architect, otherwise the most stringent of requirements will govern.

4. QUESTIONS

220 S. Bridge Street
P.O. Box 8627
Hidalgo, TX 78557

SIGN IN SHEET

Phone: (956) 843-2987
Fax: (956) 843-9726

BID #18-19-049

[illegible]

P S J A I. S. D.
Carman & Santos Livas Playground Improvements
Bid # 18-19-049

Bids due on May 21, 2019, at 4:00 pm

QUESTIONS / REQUEST FOR SUBSTITUTIONS

1. Sheet AC1.2 Detail 5 the playground it says to Ref Spec #11682. Section 11682 only has information regarding the outdoor basketball equipment. There is no specification for the playground equipment or the surfacing. Is there something that shows the dimensions of the playground area for Carman?

Answers:

- Section 11660 has the information for the outdoor athletic equipment, ie. batting cages, softball field equipment, fitness equipment, and picnic tables.
- Section 11682 is only for outdoor basketball equipment.
- The playground equipment shall be as follows: PCM410204 Four Tower with Balcony & Climbing Net, Physical, Plastic Slide ADA by Kompan Inc. Refer to Item #5 on Addendum #1 and attached sheets labeled **ATTACHMENT #6** for more information.
- The playground area shall have engineered wood surfacing as per the Landscape Materials Schedule on Sheet L1 and Detail 6/L3. Specification to be provided with next addendum.
- The dimensions of the playground area for Carman are shown in Addendum #1, **ATTACHMENT #7**.

2. Question: Specifications 01700, 02731, 02900, 02930, 02975 & 10522 and plan sheet S1.0 are missing per the Table of Contents and Index Sheet.

Answers:

- Section 01700: Refer to Addendum #1, Item #7, **ATTACHMENT #4** for this specification.
- Sections 02731, 02900, 02930 and 02975 are found under the Landscape and Irrigation Specifications, Appendix "C". Refer to Addendum #1, Item #4.
- Section 10522: Refer to Addendum #1, Item #8, **ATTACHMENT #5** for this specification.
- Sheet S1.0: Refer to Addendum #1, Item #15, Structural Addendum, **ATTACHMENT #8** for this sheet.

1 1/2" **WHITE** LETTERS
ON **BLACK** BACKGROUND

ARGOS LINE

1 1/4" **BLACK** LETTERS

1" **BLACK** LETTERS
ON **WHITE**
BACKGROUND

PAINT: SHERWIN
WILLIAMS PAINTS

SW6258 **TRICORN BLACK**
SW7065 **ARGOS**
SW7005 **PURE WHITE**

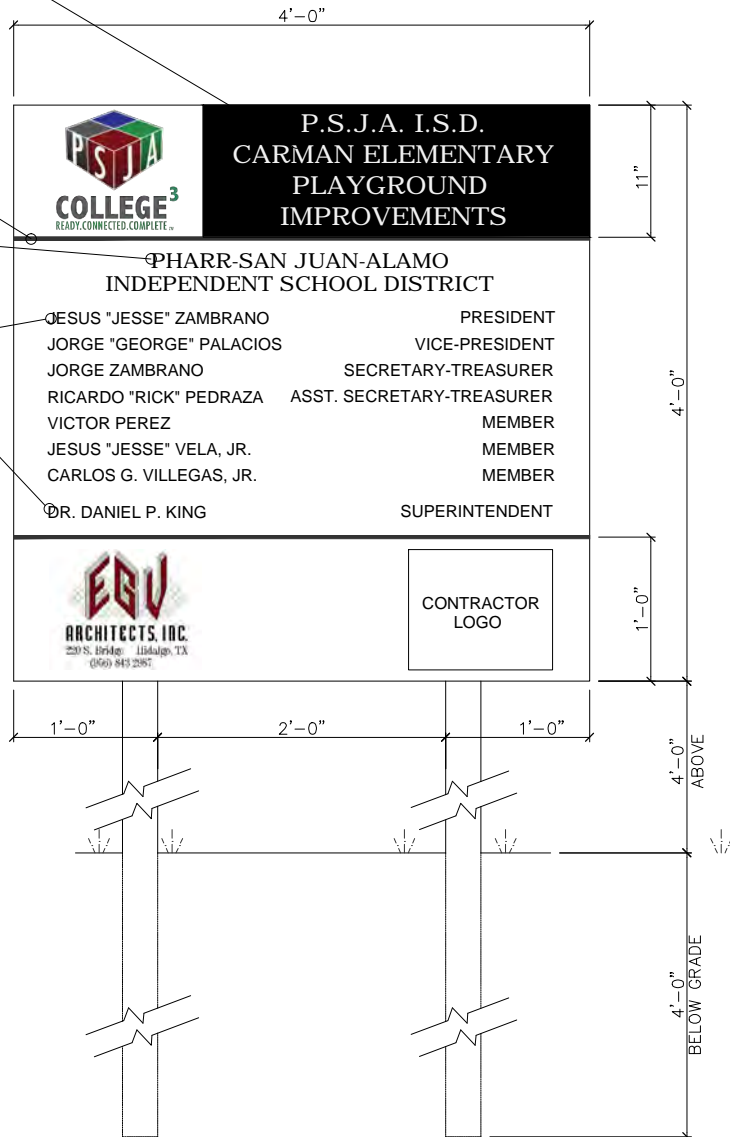
COLORS & TEXT MUST BE
SUBMITTED FOR OWNER
APPROVAL BEFORE
PRINTING. LOGOS CAN BE
EMAILED UPON REQUEST.

NOTE:
BACKSIDE OF SIGN TO BE
PAINTED WHITE

ANCHORS: ANCHOR PLYWOOD TO
POST WITH 1/2" DIA. X 6" THRU
BOLTS AND NUTS (6 TOTAL)
SPACING AS INDICATED.

SIGN: 4' X 4' X 3/4"
EXTERIOR GRADE PLYWOOD
WITH EXTERIOR GLUE. PAINT
BACK SIDE WHITE.

POSTS: 4" X 4" X 12'-0"
WITH HORIZONTAL BRACES



REFER TO SPEC 01010 ITEM 1.19

1

CARMAN PROJECT SIGN

SCALE: 3/4" = 1'-0"

PSJA ISD CARMAN & SANTOS LIVAS
ELEMENTARY SCHOOLS PLAYGROUND IMPROVEMENTS

ADDENDUM #1



EGV ARCHITECTS, INC.
220 S. BRIDGE STREET
PO BOX 8627
HIDALGO, TX 78557

TEL: (956) 843-2987
FAX: (956) 843-9726

DATE:

FILE:
dwg/PSJA/2019

SCALE:

SHEET:

ATTACHMENT

#

1 OF 1



MAY 07 2019

1 1/2" **WHITE** LETTERS
ON **BLACK** BACKGROUND

ARGOS LINE

1 1/4" **BLACK** LETTERS

1" **BLACK** LETTERS
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BACKGROUND

PAINT: SHERWIN
WILLIAMS PAINTS
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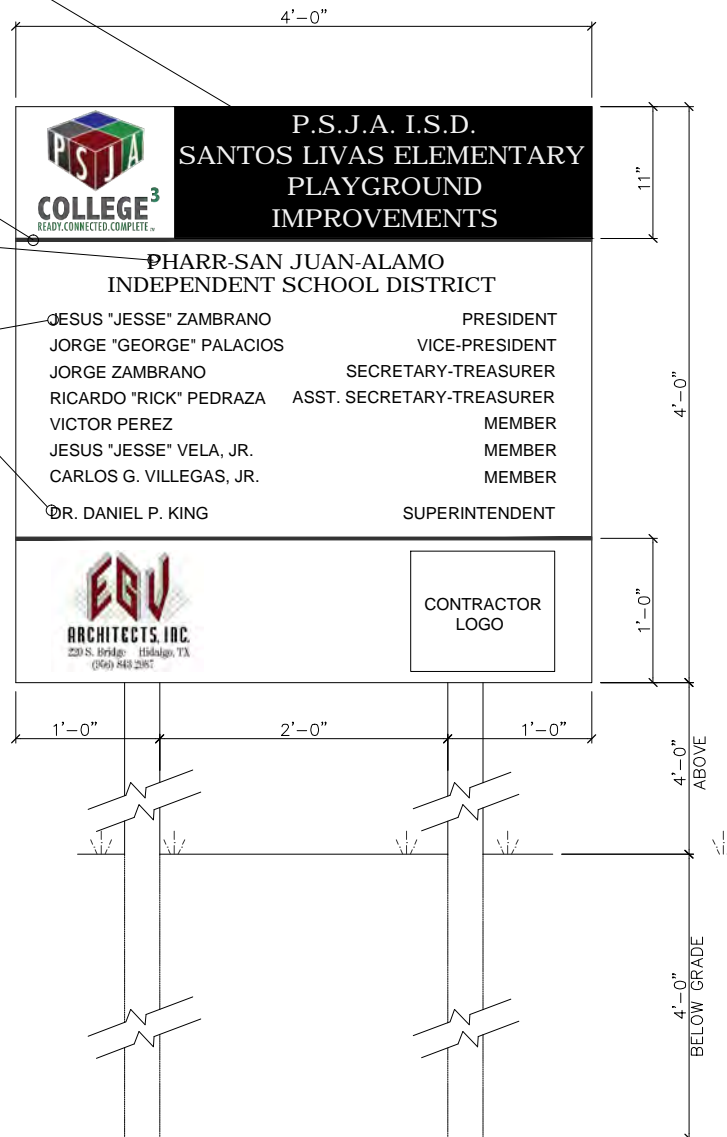
COLORS & TEXT MUST BE
SUBMITTED FOR OWNER
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EMAILED UPON REQUEST.

NOTE:
BACKSIDE OF SIGN TO BE
PAINTED WHITE

ANCHORS: ANCHOR PLYWOOD TO
POST WITH 1/2" DIA. X 6" THRU
BOLTS AND NUTS (6 TOTAL)
SPACING AS INDICATED.

SIGN: 4' X 4' X 3/4"
EXTERIOR GRADE PLYWOOD
WITH EXTERIOR GLUE. PAINT
BACK SIDE WHITE.

POSTS: 4" X 4" X 12'-0"
WITH HORIZONTAL BRACES



REFER TO SPEC 01010 ITEM 1.19

1

SANTOS LIVAS PROJECT SIGN

SCALE: 3/4" = 1'-0"

PSJA ISD CARMAN & SANTOS LIVAS
ELEMENTARY SCHOOLS PLAYGROUND IMPROVEMENTS

ADDENDUM #1



EGV ARCHITECTS, INC.
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dwg/PSJA/2019

SCALE:

ATTACHMENT

SHEET:

#

1 OF 1



MAY 07 2019

DIVISION 1 GENERAL REQUIREMENTS
01700 PROJECT CLOSEOUT

PART 1 – GENERAL

1.1 SUMMARY

- A. This section includes administrative and procedural requirements for contract closeout, including, but not limited to, the following:
 - 1. Inspection procedures
 - 2. Record Drawings
 - 3. Record Specifications
 - 4. Record Product Data
 - 5. Final Cleaning
- B. All closeout documents shall be also provided in PDF format on a USB flash drive.

1.2 SUBSTANTIAL COMPLETION

- A. Preliminary Procedures: Before requesting inspection for certification of Substantial Completion, complete the following. List items below that are incomplete in request.
 - 1. Prepare a list of items to be completed and corrected (punch list), the value of items on the list, and reasons why the Work is not complete.
 - 2. Advise Owner of pending insurance changeover requirements.
 - 3. In the Application for Payment that coincides with the date Substantial Complete is claimed, show 100 percent completion for the portion of the work claimed substantially complete.
 - 4. Submit specific warranties, workmanship bonds, maintenance agreements, final certifications and similar documents.
 - 5. Obtain and submit releases permitting Owner unrestricted use of Work and access to services and utilities. Include occupancy permits, operating certificates and similar releases.
 - 6. Submit record drawings, operation and maintenance manuals, final completion project photographs, damage or settlement survey, property survey, and similar record information.
 - 7. Deliver tools, spare parts, extra materials, and similar items to location designated by Owner. Label with manufacturer's name and model number where applicable.
 - 8. Change-over permanent locks and transmit keys to the Owner.
 - 9. Completion start-up testing of systems, and instruction of the Owner's personnel.
 - 10. Remove temporary facilities from the site, along with construction tools, mock-ups, and similar elements.
 - 11. Complete final clean-up, including touch-up painting. Touch-up and repair and restore marred exposed finishes.
- B. Inspection Procedures: On receipt of a request for inspection, the Architect will proceed or advise the Contractor of unfilled requirements. The Architect will prepare the Certificate of Substantial Completion following inspection, or advise the Contractor of construction that must be completed or corrected before the Certificate will be issued.
 - 1. The Architect will repeat inspection when requested and assured that the Work has been substantially completed.
 - 2. Results of the completed inspection will form the basis of requirements for final acceptance.

1.3 FINAL ACCEPTANCE

- A. Before requesting inspection for certification of final acceptance and final payment, complete the following:
 - 1. Submit the final payment request with releases.
 - 2. Submit a final statement, accounting for changes to the Contract Sum.
 - 3. Submit an officially notarized copy of the Architect's final punch-list of itemized work to be completed or corrected, stating that each item has been completed or otherwise resolved for acceptance and has been endorsed and dated by the Architect.
 - 4. Submit final meter readings for utilities, a record of stored fuel, and similar data as of Substantial Completion.
 - 5. Submit consent of surety to final payment.
 - 6. Submit evidence of continuing insurance coverage complying with insurance requirements.
 - 7. Submit pest-control final inspection report and warranty
- B. Inspection: Submit a written request for final inspection for acceptance. On receipt of request, Architect will either proceed with inspection or notify Contractor of unfulfilled requirements. Architect will prepare a final Certificate for Payment after inspection or will notify Contractors of construction that must be completed or corrected before certificate will be issued.
- C. Re-inspection Procedure: The Architect will reinspect the Work upon receipt of the contractor's notice that the work, including punch-list items resulting from earlier inspections, has been completed, except for those items whose completion has been delayed because of circumstances that are acceptable to the Architect.
 - 1. Upon completion of reinspection, the Architect will either prepare a certificate of final acceptance, or will advise the Contractor of work that is incomplete or of obligations that have not been fulfilled, but are required for final acceptance.
 - 2. If necessary, the reinspection procedure will be repeated.

PART 2 PRODUCTS

2.1 RECORD DOCUMENT SUBMITTAL

- A. Do not use Record Documents for construction purposes; protect from loss in a secure location; provide access to Record Documents for the Architect's reference.
- B. **Provide all closing documents in PDF format on a USB flash drive and a hard copy of all documents.**

2.2 RECORD DRAWINGS

- A. Maintain a clean, undamaged set of prints of Contract Drawings and Shop Drawings.
 - 1. Mark-up these drawings to show the actual installation. Mark whichever drawing is most capable of showing conditions accurately.
 - a. Give particular attention to concealed elements that would be difficult to measure at a later date.
 - b. Organize record sheets into manageable sets, bind with durable paper cover sheets, and print suitable titles, dates and other identification on the cover.
 - c. Accurately record information in an understandable drawing technique.
 - d. Record data as soon as possible after obtaining it. Record and check the markup before enclosing concealed installations.
 - 2. Content: Types of items requiring marking include, but are not limited to, the following:

- a. Dimensional changes to Drawings
 - b. Revisions to details shown on Drawings
 - c. Depths of foundation below first floor
 - d. Locations and depths of underground utilities
 - e. Revisions to routing of piping and conduits
 - f. Revisions to electrical circuitry
 - g. Actual equipment locations
 - h. Duct size and routing
 - i. Locations of concealed internal utilities
 - j. Changes made by Change Order or Construction Change Directive
 - k. Changes made following Architect's written orders
 - l. Details not on the original Contract Drawings
 - m. Field records for variable and concealed conditions
 - n. Record information on the Work that is shown only schematically
3. Mark the Contract Drawings or Shop Drawings, whichever is most capable of showing actual physical conditions, completely and accurately. If Shop Drawings are marked, show cross-reference on the Contract Drawings.
 4. Mark important additional information that was either shown schematically or omitted from original Drawings.
 5. Note Construction Change Directive numbers, alternate numbers, Change Order numbers, and similar identification, where applicable.

2.3 RECORD SPECIFICATIONS

- A. Maintain one copy of the Project Manual, including addenda. Mark to show variations in actual Work performed in comparison with the Specifications and modifications.
 1. Give particular attention to substitutions, selection of options and similar information on elements that are concealed or cannot be readily discerned later by direct observation.
 2. Mark copy with the proprietary name and model number of products, materials, and equipment furnished, including substitutions and product options selected.
 3. Record the name of manufacturer, supplier, installer, and other information necessary to provide a record of selections made.
 4. For each principal product, indicate whether Record Product Data has been submitted in operation and maintenance manuals instead of submitted as Record Product Data.
 5. Note related record drawing information and Product Data.
- B. Upon completion of the Work, submit record Specifications to the Architect for the owner's record.

2.4 MAINTENANCE MANUALS

- A. Organize maintenance data into sets of manageable size. Bind in individual heavy-duty ring vinyl-covered binders, with pocket folders for folded sheet information. Mark identification on front and spine of each binder. Include the following information:
 1. Emergency instructions.
 2. Spare parts list.
 3. Copies of warranties.
 4. Wiring diagrams.
 5. Recommended "turn around" cycles.
 6. Inspection procedures.
 7. Shop Drawings and Product Data.

8. Fixture lamping schedule.

2.5 OPERATING AND MAINTENANCE INSTRUCTIONS

- A. Arrange for the installer of equipment that requires regular maintenance to meet with the Owner's personnel to provide instruction in proper operation and maintenance. Include a detailed review of the following:
 1. Maintenance manuals.
 2. Spare parts and materials.
 3. Tools.
 4. Lubricants.
 5. Control sequences.
 6. Hazards.
 7. Warranties and Bonds.
 8. Maintenance agreements and similar continuing commitments.
- B. As part of instruction for operating equipment, demonstrate the following procedures:
 1. Start-up and shut-down.
 2. Emergency operations.
 3. Noise and vibration adjustments.
 4. Safety procedures.

PART 3 - EXECUTION

3.1 FINAL CLEANING

- A. General: Provide final cleaning. Employ experienced workers for final cleaning. Clean each surface to the condition expected in a commercial building cleaning maintenance program.
- B. Cleaning agents: Use cleaning materials and agents recommended by manufacturer or fabricator of the surface to be cleaned. Do not use cleaning agents that are potentially hazardous to health or property or that might damage finished surfaces.
 1. Complete the following before inspection for certification of Substantial Completion:
 - a. Remove labels that are not permanent labels.
 - b. Clean transparent materials. Remove glazing compound. Replace chipped or broken glass.
 - c. Clean exposed hard-surface finishes to a dust-free condition, free of stains, films and similar foreign substances. Restore reflective surfaces to their original reflective condition. Leave concrete floors broom clean. Vacuum carpeted surfaces.
 - d. Wipe surfaces of mechanical and electrical equipment. Remove excess lubrication. Clean plumbing fixtures to a sanitary condition. Clean light fixtures and lamps.
 - e. Clean the site of rubbish, litter and other foreign substances. Sweep paved areas; remove stains, spills and other foreign deposits. Rake grounds that are neither paved nor planted, to a smooth even-textured surface.
 - f. Clean surfaces of mechanical and electrical equipment, and similar equipment. Remove excess lubrication, paint and mortar droppings, and other foreign substances.
 - g. Replace disposable air filters and clean permanent air filters. Clean exposed surfaces of diffusers, registers and grills.
 - h. Clean ducts, blowers and coils if units were operated without filters during construction.

- i. Clean light fixtures, lamps, globes and reflectors to function with full efficiency. Replace burned-out bulbs, and those noticeable dimmed by hours of use, and defective and noisy starters in fluorescent and mercury vapor fixtures to comply with requirement for new fixtures.
- j. Leave Project clean and ready for occupancy.

3.2 PEST CONTROL

- A. Engage an experienced exterminator to make a final inspection, and rid the Project of rodents, insects and other pests.

3.3 REMOVAL OF PROTECTION

- A. Remove temporary protection and facilities.

3.4 COMPLIANCE

- A. Comply with regulations of authorities having jurisdiction and safety standards for cleaning. Remove waste materials from the site and dispose of in a lawful manner.

END OF SECTION

DIVISION 10 SPECIALITIES
10522 FIRE EXTINGUISHERS

PART 1 GENERAL

1.1 SUMMARY

- A. Perform all work required to complete the fire extinguishers indicated by the contract documents and furnish all supplementary items necessary for their proper installation.
- B. This section includes the following:
 - 1. Fire Extinguishers
 - 2. Fire Extinguisher cabinets
 - 3. Mounting brackets

1.2 SUBMITTALS

- A. Submit product data and finish samples for each type of product specified. For cabinets include rough-in dimensions, details showing mounting methods, relationship of box and trim to surrounding construction, door hardware, cabinets type and materials, trim style, door construction, panel style, and materials.

1.3 QUALITY ASSURANCE

- A. Single Source Responsibility: Obtain fire extinguishers and cabinets from one source from a single manufacturer.
- B. UL Listed Products: Fire extinguishers UL listed and bear UL "Listing Mark" for type, rating, and classification of extinguisher.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Subject to compliance with requirements, provide products by one of the following:
 - 1. J.L. Industries
 - 2. Larsen's Manufacturing Co.
 - 3. Seco Mfg., Inc.
 - 4. Potter Roemer
 - 5. Muckle Manufacturing, Division of Technico, Inc.
 - 6. American Specialties Inc.
 - 7. or approved equal

2.2 FIRE EXTINGUISHERS

- A. Provide fire extinguishers, cabinet and accessories for each fire extinguisher.
 - 1. Multi-Purpose Dry Chemical Type: UL-rated 4-A: 60-B.C, 10 lb. nominal capacity, in aluminum container, color to match aluminum store front doors. (Re: drawings on door elevations)
 - 2. Class K fire extinguishers (designed for commercial kitchens) in aluminum cabinet. **(N/A)**
- B. Quantity: **Four (4), location to be determined during construction phase.**
 - 1. In addition to, provide one (1) fire extinguisher at each mezzanine (if any) and

provide one (1) at each electrical room and mechanical room.

2.3 FIRE EXTINGUISHER CABINETS

- A. Provide the following (manufacturer's standard accessories) accessories for each fire extinguisher.
- B. Semi-Recessed Cabinet Type: Cabinet box partly recessed in wall. Cabinet cannot protrude more than 4".
- C. Bubble Type Door Style: One-piece molded plastic.
- D. Fastener Bracket: Quick release fastener anchored to cabinet
- E. Factory Finishing of Fire Extinguisher Cabinets: Comply with NAAMM "Metal Finishes Manual" to provide uniformly finished products.
- F. Provide color as indicated, or if not indicated, as selected from manufacturer's standard colors. Cabinet color to match aluminum store front doors (Re: drawings on door elevations) Refer to plans for wall types (ie: gypsum or CMU)

2.4 MOUNTING BRACKETS

- A. Provide brackets to prevent accidental dislodgement of extinguisher, or sizes required for type and capacity of extinguisher indicated in plated finish.
 - 1. Provide brackets for extinguishers not located in cabinets.

PART 3 EXECUTION

3.1 INSTALLATION

- A. Installation: In accordance with manufacturer's directions for type of mounting required at height and locations indicated, or if not indicated, to comply with applicable regulations of governing authorities.
- B. Identify Fire Extinguisher in Cabinets with lettering spelling "FIRE EXTINGUISHER" printed on door by process indicated below, as selected by Architect from manufacturer's standard letter sizes, styles, colors and layouts.

END OF SECTION

Four Tower with Balcony & Climbing Net,
Physical, Plastic Slide ADA



Elevated Activities: 9	Accessible Elevated Activities	Accessible Ground Level Activities	Accessible Ground Level Play Types
Present	5	4	3
Required	5	3	3

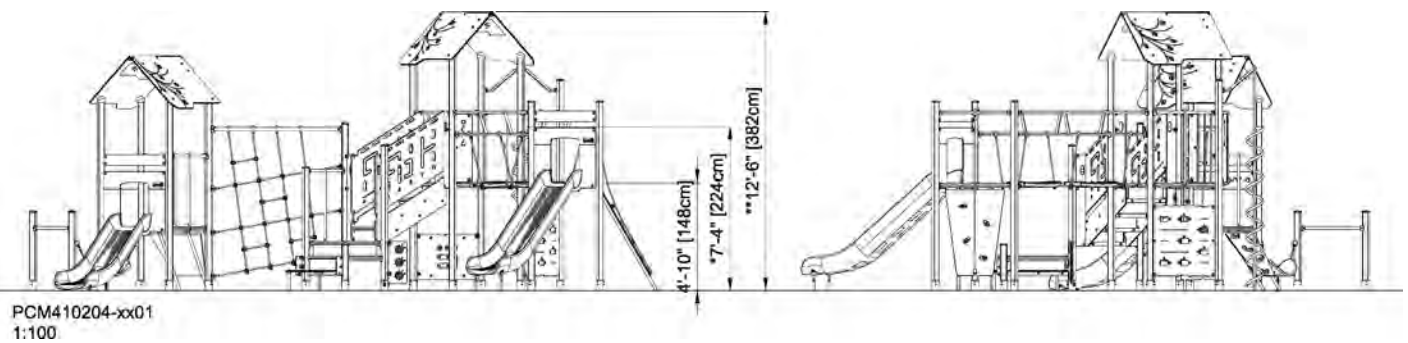
The journey of the play universe starts with the somersault bar in combination with the hammock: together they form a nice meeting point next to the climbing action of the remaining structure. The first tower next to the hammock is entered by a smiley grip inclined climbing wall and a slide on the other side offers a playground classic activity: running loops from access point to slide. From the tower, a big climbing net with different mesh sizes, also allowing a seated rest or hanging in the knees, leads to the accessibly stairway. The tower of the Curly Climber can also be reached by climbing the sturdy climbing wall leading up to it. opportunity for more quiet play.

Product LineMulti play structures

Category MOMENTS™ School age

Age from 5 - 12





* = Highest designated play surface.
** = Total height of product.

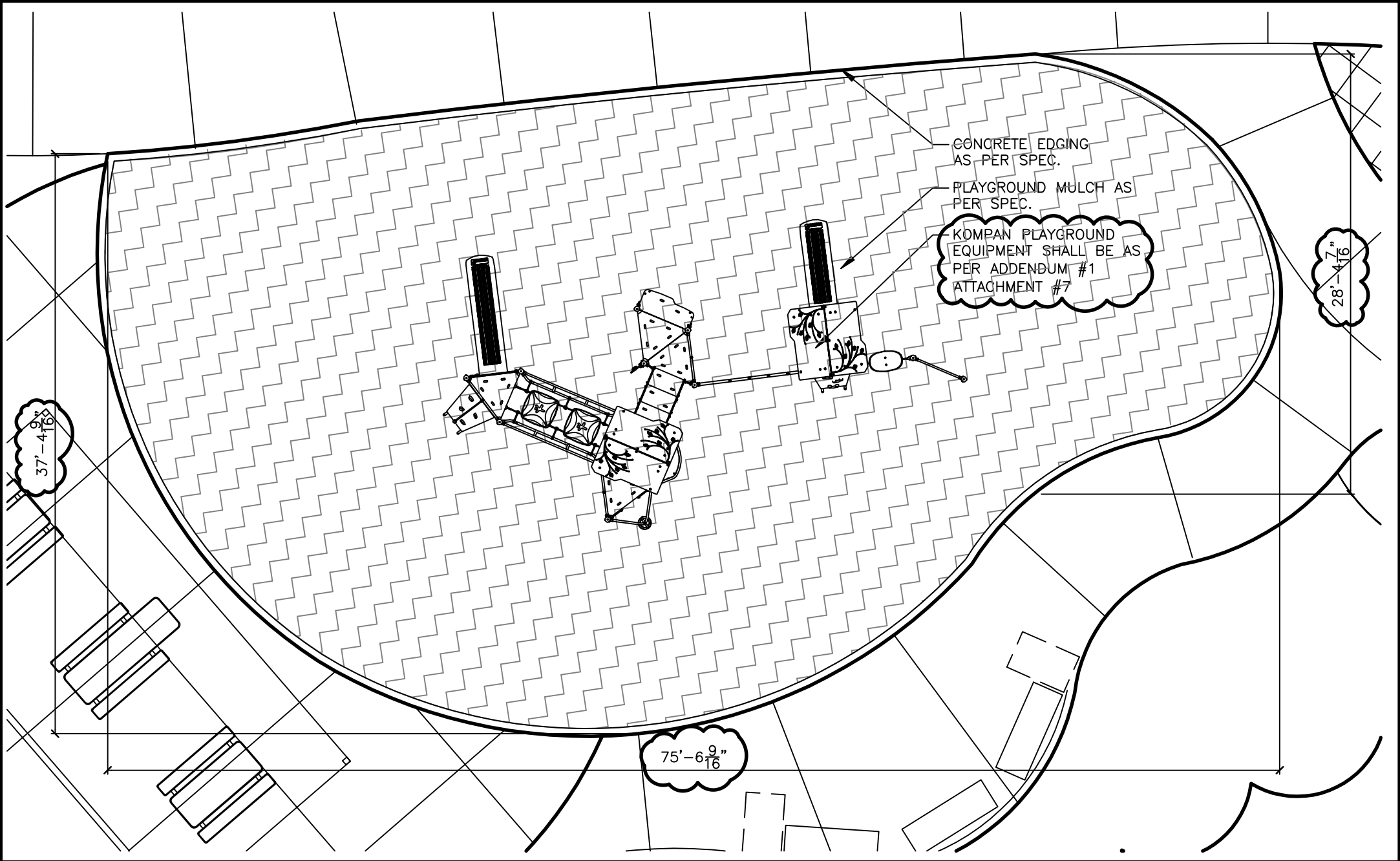
Weight/heaviest parts	kg.	Installation (Manpower)	Persons
Concrete required	NaN m3	Installation (Hours)	Hours
Foundation amount/footing	NaN	Excavation	NaN m3



To verify product certification, visit www.ipema.org

Highest designated play surface and space required are according to ASTM F1487. Equipment must be installed over resilient surfacing appropriate to the safety guidelines in your area. Product development is an ongoing process. We reserve the right to make modifications on all our products. This product may not be mirrored, scaled or altered in any way. Safety zones must be retained for proper placement of equipment. If any changes are required, please contact your KOMPAN representative at 1.800.426.9788.

ADDENDUM #1, ATTACHMENT #6



5 **PLAYGROUND**
SCALE: 1/8" = 1'-0"



MAY 07 2019

P-S-J-A-15D
CARMAN ELEM. & SANTOS LIVAS ELEM.
PLAYGROUND IMPROVEMENTS

ADDENDUM #1

EGV
ARCHITECTS, INC.
EGV ARCHITECTS, INC.
220 S. BRIDGE STREET
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FILE: dwg/psjr/playgrounds

SHEET
AC1.2
OF
1



STRUCTURAL ENGINEERING

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Addendum #1

May 6, 2019

"PSJA ISD Carman & Santos Elementary Playground Improvements"

PLEASE NOTE CHANGES AS FOLLOWS:

Structural Attachments:

A. Addition of (1) 24"x36" sheet S1.0.

End of Add #1



GENERAL NOTES

ADDENDUM # 1, ATTACHMENT #8

GENERAL

1. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. UNLESS OTHERWISE INDICATED, THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE, WORKMEN, AND OTHER PERSONS DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO BRACING, SHORING FOR CONSTRUCTION EQUIPMENT, SHORING FOR THE BUILDING, SHORING FOR THE EARTH BANKS, FORMS, SCAFFOLDING, PLANNING, SAFETY NETS, SUPPORT AND BRACING FOR CRANES, GIN POLES, ETC. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK, AND HE SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES. OBSERVATION VISITS TO THE SITE BY THE ARCHITECT OR THE ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.
2. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION.
3. EQUIPMENT FRAMING LOADS, OPENINGS AND STRUCTURE IN ANY WAY RELATED TO HVAC, PLUMBING, OR ELECTRICAL REQUIREMENTS ARE SHOWN FOR BIDDING PURPOSES ONLY. EXACT WEIGHTS AND LOCATIONS OF MECHANICAL EQUIPMENT SHALL BE COORDINATED BY CONTRACTOR. IF THE FINAL LOCATION VARIES FROM THAT SHOWN ON THE PLANS, CONTRACTOR TO NOTIFY ARCHITECT AND ENGINEER FOR APPROVAL BEFORE INSTALLATION.
4. SHOULD ANY OF THE DETAILED INSTRUCTIONS SHOWN ON THE PLANS CONFLICT WITH THESE STRUCTURAL NOTES, THE SPECIFICATIONS, OR WITH EACH OTHER, THE STRICTEST PROVISION SHALL GOVERN.
5. THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOB SITE AND SHALL BE RESPONSIBLE FOR CONDITIONS OF ALL WORK AND MATERIALS.
6. THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS AND ELEVATIONS. CONTRACTOR SHALL REPORT ANY DISCREPANCIES IN WRITING TO THE ARCHITECT. ANY CONFLICT BETWEEN THE DRAWING AND SPECIFICATIONS OF THE VARIOUS TRADES INVOLVED SHALL BE REPORTED TO THE ARCHITECT AND ENGINEER.
7. DETAILS SHOWN ON DRAWINGS APPLY AT SIMILAR CONDITIONS.
8. ALL WORK SHALL BE DONE IN ACCORDANCE WITH LOCAL STANDARDS AND TO ALL APPLICABLE PROVISIONS OF THE GOVERNING BUILDING CODE.
9. THE ARCHITECT AND ENGINEER SHALL BE NOTIFIED IN WRITING WHEN WORK COMMENCES.
10. CONTRACTOR SUBSTITUTIONS: ANY MATERIALS OR PRODUCTS THAT ARE SUBMITTED FOR APPROVAL THAT ARE DIFFERENT FROM THE MATERIALS OR PRODUCTS SPECIFIED IN THE CONTRACT DOCUMENTS WILL ONLY BE CONSIDERED IF THE FOLLOWING CRITERIA ARE SATISFIED.
 - A) A COST SAVING TO THE OWNER IS DOCUMENTED AND SUBMITTED WITH THE REQUEST
 - B) THE MATERIAL OR PRODUCT HAS BEEN APPROVED BY THE INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS (ICBO) AND THE ICBO REPORT IS SUBMITTED WITH THE REQUEST.

STRUCTURAL OBSERVATION

1. THE PROFESSIONAL ENGINEER OR HIS/HER AUTHORIZED REPRESENTATIVE SHALL CONDUCT ALL STRUCTURAL OBSERVATIONS. STRUCTURAL OBSERVATIONS SHALL BE FOR THE PURPOSE OF ASCERTAINING GENERAL COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS. HOWEVER, SUCH OBSERVATION VISITS SHALL NOT RELIEVE THE CONTRACTOR FROM HIS OBLIGATIONS AND RESPONSIBILITIES TO THE CONSTRUCTION DOCUMENTS.
2. ITEMS THAT REQUIRE A STRUCTURAL OBSERVATION ARE AS FOLLOWS:
 - A. STEEL REINFORCEMENT IN SLAB OR FOUNDATION
 - B. FRAMING OF ROOF STRUCTURE BEFORE SHEATHING IS INSTALLED
 - C. EXTERIOR SHEATHING INSTALLATION
 - D. CMU WALL REINFORCING BEFORE FILLING WITH GROUT
3. NOTIFY ENGINEER 24 HOURS IN ADVANCE WHEN A STRUCTURAL OBSERVATION IS REQUIRED.
4. WORK SHALL NOT CONTINUE AT THESE AREAS UNTIL OBSERVATION AND APPROVAL BY ENGINEER. FAILURE BY THE CONTRACTOR TO PROVIDE PROPER NOTICE FOR AN OBSERVATION VISIT AT THE REQUIRED TIME OR ADDITIONAL WORK PERFORMED WITHOUT AN OBSERVATION VISIT WILL BE DONE AT CONTRACTOR'S RISK AND MAY BE SUBJECT TO COMPLETE OR PARTIAL REMOVAL TO VERIFY COMPLIANCE OF PREVIOUS WORK.

SHOP DRAWINGS & SUBMITTALS

1. SUBMITTAL THAT WILL BE REQUIRED FOR APPROVAL INCLUDE:
 - A. CONCRETE MIX DESIGN
 - B. CURING COMPOUND FOR CONCRETE
 - C. REINFORCING STEEL (INCLUDING CMU WALL)
 - D. CMU WALL COMPONENTS
2. DEFERRED SUBMITTALS THAT WILL REQUIRE APPROVAL INCLUDE
 - A. PRE-ENGINEERED BUILDING CALCULATIONS (INCLUDING REACTIONS)
3. DEFERRED SUBMITTALS SHALL BE DESIGNED BY A TEXAS REGISTERED PROFESSIONAL ENGINEER ACCORDING TO THE DESIGN CRITERIA STATED IN THE PLANS AND SPECIFICATIONS THE SUBMITTAL SHALL INCLUDE SIGNED AND SEALED CALCULATIONS.
4. ALLOW (2) WEEKS MINIMUM FOR REVIEW OF SHOP DRAWINGS.
5. PRIOR TO ISSUING THE SUBMITTALS TO THE ENGINEER, THE CONTRACTOR SHALL REVIEW THE SHOP DRAWINGS. CONTRACTOR MUST VERIFY ALL DIMENSION WITH ARCHITECTURAL PLANS.
6. REVIEW OF SHOP DRAWINGS BY THE ENGINEER IS FOR GENERAL CONFORMANCE TO THE STRUCTURAL DRAWINGS. APPROVAL OF THE SHOP DRAWINGS BY THE ENGINEER DOES NOT RELIEVE THE CONTRACTOR FOR ANY ERRORS IN DIMENSIONS OR MATERIAL INDICATED ON THE SHOP DRAWINGS.

DESIGN CRITERIA

1. DESIGN LOADS, STRUCTURAL ANALYSIS AND PREPARATION OF STRUCTURAL MEMBERS ARE BASED ON THE FOLLOWING CRITERIA:
2. CODE: IBC 2012
3. VERTICAL LOADS
 - A. ROOF DEAD LOAD (BUILT-UP ROOF): 20 PSF
 - B. ROOF LIVE LOAD(REDUCIBLE) : 20 PSF
 - C. UPLIFT LOAD SEE ROOF UPLIFT PLAN
- D. MECHANICAL LOAD:
THE GENERAL CONTRACTOR SHALL SUBMIT ACTUAL WEIGHTS AND LOCATIONS OF EQUIPMENT TO BE USED IN THE PROJECT TO THE STRUCTURAL ENGINEER FOR VERIFICATION OF LOADS USED IN THE DESIGN AT LEAST TWO WEEKS PRIOR TO FABRICATION AND CONSTRUCTION OF THE SUPPORTING STRUCTURE.
4. LATERAL LOADS
 - A. WIND SPEED (V-ULT): 141 MPH
 - WIND SPEED (V-ASD) 109 MPH
 - B. EXPOSURE CATEGORY: C
 - C. IMPORTANCE FACTOR: 1.0
 - D. BUILDING CATEGORY: III
 - E. SEISMIC DESIGN CATEGORY: A
 - F. SITE CLASS: D
5. GEOTECHNICAL ENGINEERING REPORT: NOT PROVIDED (CARMAN)
FOUNDATION DESIGN BASED ON THE FOLLOWING PARAMETERS (CARMAN)
 - A. EFFECTIVE PL: 41
 - B. CLIMATIC RATING (Cw): 15
 - C. MINIMUM BEAM DEPTH: 18 IN
 - D. MINIMUM BEAM WIDTH: 12 IN
 - E. ALLOWABLE BEARING CAPACITY (NET TOTAL LOAD) 2000 PSF
 - F. EXISTING PVR: 3 1/2-4 IN
 - G. PVR (SEE EXCAVATION PLAN)..... 2 1/2-3 INCH
6. GEOTECHNICAL ENGINEERING REPORT: NOT PROVIDED (SANTOS)
FOUNDATION DESIGN BASED ON THE FOLLOWING PARAMETERS (SANTOS)
 - A. EFFECTIVE PL: 24
 - B. CLIMATIC RATING (Cw): 15
 - C. MINIMUM BEAM DEPTH: 24 IN
 - D. MINIMUM BEAM WIDTH: 12 IN
 - E. ALLOWABLE BEARING CAPACITY (BEAMS) 1800 PSF
 - F. ALLOWABLE BEARING CAPACITY (FOOTING) 2100 PSF
 - G. EXISTING PVR: 1.75 IN
 - H. PVR (SEE EXCAVATION PLAN) :..... 1 INCH

GEOTECHNICAL INVESTIGATION

THE OWNER OF THIS PROJECT HAS DECLINED TO FURNISH A GEOTECHNICAL INVESTIGATION REPORT THEREFORE THE FOUNDATION DESIGN WAS BASED UPON AVERAGE SOIL CONDITIONS IN HIDALGO COUNTY, TEXAS. IF HIGHLY EXPANSIVE SOILS OR SOFT SOILS ARE ENCOUNTERED, DIFFERENTIAL FOUNDATION MOVEMENTS CAN BE EXPECTED. ALTHOUGH WE ATTEMPT TO MAKE ASSUMPTIONS THAT WILL NOT IMPAIR STRUCTURAL INTEGRITY OF THE PROJECT, WE DO NOT HAVE THE EXPERTISE OR BENEFIT OF LABORATORY INVESTIGATIONS OF A GEOTECHNICAL ENGINEER, THEREFORE THIS FIRM CANNOT ASSUME RESPONSIBILITY FOR THE PERFORMANCE OF THE DESIGN FOUNDATION SHOULD ACTUAL SURFACE OR SUBSURFACE SOIL CONDITIONS VARY FROM THOSE ASSUMED. FOLLOWING ASSUMPTIONS: SHOWN

WOOD FRAMING NOTES

1. ALL FRAMING LUMBER SHALL BE #2 SOUTHERN PINE OR BETTER.
2. PROVIDE SOLID BLOCKING BETWEEN ROOF RAFTERS, CEILING JOISTS AND FLOOR JOISTS AT BEARING LOCATIONS AND AT MID SPAN OF SPANS GREATER THAN 8'-0" OR AS NOTED. SIZE SHALL MATCH FRAMING MEMBER.
3. TOP PLATES IN CONTACT WITH CONCRETE SHALL OR CMU WALL BE PRESSURE TREATED WOOD.
4. MINIMUM NAILING OF WOOD SHALL BE PER TABLE 2304.9.1 OF IBC 2012 UNLESS NOTED OTHERWISE ON DRAWINGS.
5. EACH ANCHOR BOLT SHALL HAVE A WASHER WITH A MINIMUM 1-3/8 INCH DIAMETER AND MINIMUM 1/8 INCH THICKNESS.

WOOD SHEATHING

1. SHEATHING FOR ROOF TO BE TYPE CDX EXT., STRUCTURAL 1-APA RATED, 5/8" THICK, (32/16).
2. PLACE ROOF SHEATHING WITH END JOINTS STAGGERED. SECURE SHEETS OVER FIRM BEARING WITH 10D COMMON NAILS AT 6" O.C. AT PANEL EDGES, AT 6" O.C. AT INTERMEDIATE SUPPORTS. ALL SHEATHING TO BE PLACED PERPENDICULAR TO FRAMING MEMBERS.

CONCRETE

1. ALL CONCRETE WORK SHALL BE EXECUTED IN ACCORDANCE WITH ACI 318 AND ACI 301 LATEST EDITION.
2. CEMENT SHALL CONFORM TO ASTM C150 TYPE I AGGREGATE SHALL CONFORM TO ASTM C33.
3. CONCRETE SHALL HAVE A MINIMUM 28 DAYS COMPRESSIVE STRENGTH AS FOLLOWS:

MEMBER TYPE	STRENGTH	SLUMP	MAX AGG.
FOUNDATION	3000 PSI	4"-6"	1.5 IN.
AND SLAB			
4. INSTALL 10 MIL VAPOR RETARDER UNDER SLABS ON GRADE AND ALONG SIDE OF TRENCHES IN ACCORDANCE WITH ASTM E1643. LAP JOINTS MINIMUM OF 12 INCHES.
5. PLACE CONCRETE CONTINUOUSLY BETWEEN PRE-DETERMINED EXPANSION AND CONSTRUCTION JOINTS.
6. ALL CONSTRUCTION JOINT LOCATIONS TO BE APPROVED BY ARCHITECT AND STRUCTURAL ENGINEER.
7. HORIZONTAL CONSTRUCTION JOINTS SHALL NOT BE PERMITTED.
8. CURE CONCRETE IN ACCORDANCE WITH ACI 308.1
9. REFER TO ARCHITECTURAL AND MECHANICAL PLANS FOR LOCATIONS OF ALL DEPRESSIONS, OPENINGS, ACCESSORIES, ETC.
10. CONDUIT AND PLUMBING LINES SHALL BE PLACED BELOW SLAB REINFORCING AND SHALL BE NO BIGGER THAN 1 INCH.
11. FLYASH MAY BE USED TO REPLACE A PORTION OF THE PORTLAND CEMENT. THE RATIO OF FLYASH TO THE TOTAL OF THE FLYASH AND CEMENT IN A MIX SHALL NOT EXCEED 20%. FLYASH SHALL CONFORM TO ASTM C618, TYPE C OR F.
12. ALL FLOORS SHALL BE CONSTRUCTED WITH A MINIMUM FLATNESS FF = 35 AND A MINIMUM LEVELNESS OF FL = 25
13. CONTRACTION JOINTS TO BE INSTALLED WITHIN 12 HOURS OF POURING FOUNDATION.
14. TESTING OF CONCRETE SHALL BE DONE AS FOLLOWS:
 - 1) SETS SHALL CONSIST OF 3 CYLINDERS
ONE TESTED AT 7 DAYS
TWO TESTED AT 28 DAYS
 - 2) ONE SET SHALL BE TAKEN FOR EACH 150 CY AND FOR EVERY 5000 SF OF SURFACE AREA AND AT LEAST ONCE PER DAY OF POURING
 - 3) A MINIMUM OF 3 SETS SHALL BE TAKEN FOR EACH CLASS OF CONCRETE
15. NO WATER SHALL BE ADDED TO THE CONCRETE AT THE JOBSITE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE CONCRETE SUPPLIER TO ENSURE A PUMPABLE AND WORKABLE MIX WITHOUT THE ADDITION OF WATER AT THE JOBSITE. THE USE OF PLASTICIZERS, RETARDANTS AND OTHER ADDITIVES SHALL BE AT THE OPTION OF THE CONTRACTOR SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER. FOLLOW THE RECOMMENDATIONS OF THE MANUFACTURER FOR THE PROPER USE OF ADDITIVES. THE USE OF CALCIUM CHLORIDE OR OTHER CHLORIDE BEARING SALTS SHALL NOT BE PERMITTED.
16. PLACE CONCRETE IN A MANNER SO AS TO PREVENT SEGREGATION OF THE MIX. DELAY FLOATING AND TROWELING OPERATIONS UNTIL CONCRETE HAS LOST SURFACE WATER SHEEN OR ALL FREE WATER. DO NOT SPRINKLE FREE CEMENT ON THE SLAB SURFACE. FINISHING OF SLAB SURFACES SHALL COMPLY WITH THE RECOMMENDATIONS OF ACI 302.1 AND 304.
17. UNLESS SPECIFIED, CONCRETE MUST REACH THE FOLLOWING PERCENTAGES OF ITS 28-DAY COMPRESSIVE STRENGTH (F_c), BEFORE FORMS MAY BE REMOVED.

WALL, COLUMNS, & BEAM SIDES.....	40%
JOIST PANS & BEAM BOTTOMS (IF RESHORED).....	70%
SHORING FOR FLOOR SYSTEMS (IF NOT RESHORED).....	85%
18. NO CONCRETE SHALL BE PLACED OUTSIDE OF THESE SPECIFICATIONS WITHOUT THE OWNER'S PRIOR APPROVAL. ANY ITEMS NOT IN COMPLIANCE WITH THE OUTLINED SPECIFICATION SHALL BE REPORTED TO THE OWNER AND STRUCTURAL ENGINEER WITHIN 24 HOURS.
19. CONSTRUCTION VEHICLE LOADS SHALL NOT BE PERMITTED ON ELEVATED SLABS AT ANY TIME.
20. ALL RETAINING WALLS TO BE SHORED UNTIL UPPER SLAB IS IN PLACE AND HAS REACHED 70% OF ITS DESIGN STRENGTH OR THE RETAINING WALL HAS REACHED 100% OF ITS DESIGN STRENGTH. PROVIDE GRANULAR BACKFILL AND PERFORATED DRAIN PIPE CONNECTED TO SITE DRAINAGE, RE: CIVIL PLAN.

STEEL REINFORCING

1. ALL REINFORCEMENT SHALL BE NEW BILLET STEEL CONFORMING TO ASTM A-615 GRADE 60.
2. REINFORCING STEEL SHALL BE DESIGNED, DETAILED, FABRICATED AND PLACED IN ACCORDANCE WITH THE LATEST ACI DETAILING MANUAL (SP-66) AND CSRI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE, (ACI #315) LATEST EDITIONS.
3. BARS SCHEDULED OR DETAILED "CONT" SHALL BE SPLICED ONLY WHEN UNAVOIDABLE AT POINTS OF MINIMUM STRESS AND WITH A MINIMUM LAP AS FOLLOWS:
 - A. HORIZONTAL BARS w/ MORE THAN 12" OF FRESH CONCRETE CAST BELOW LAPS.

#6 BARS AND SMALLER	-	57 BAR DIAMETERS
#7 BARS AND BIGGER	-	72 BAR DIAMETERS
 - B. OTHER BARS

#6 BARS AND SMALLER	-	44 BAR DIAMETERS
#7 BARS AND BIGGER	-	55 BAR DIAMETERS
 - C. ALL SPLICES TO BE STAGGERED A MINIMUM OF 4'-0". TOP BAR AND BOTTOM BAR SPLICES TO BE LOCATED AT MID-SPAN AND WITHIN 1/3 SPAN RESPECTIVELY.
4. CORNER REINFORCING BARS SHALL BE USED AT ALL CORNERS AND INTERSECTIONS.
5. EXTEND THE SLAB REINFORCING STEEL PERPENDICULAR TO EXTERIOR GRADE BEAM TO THE TOP OUT SIDE REINFORCING BAR OF BEAM.
6. SPACE REINFORCING BARS WITH MINIMUM CLEAR SPACING IN ACCORDANCE WITH ACI 318 OF ONE BAR DIAMETER, BUT NOT LESS THAN 1 INCH. FOR COMPRESSION MEMBERS, SPACE AT A MINIMUM OF 1.5 INCHES OR 1.5 BAR DIAMETERS, WHICHEVER IS GREATER.
7. WHERE REINFORCING BARS ARE PLACED IN MULTIPLE LAYERS, PLACE UPPER BARS DIRECTLY ABOVE LOWER BARS.
8. MAINTAIN CONCRETE COVER AROUND REINFORCEMENT IN ACCORDANCE WITH ACI 318 AND AS FOLLOWS:

A. FOOTING AND CONCRETE CAST AGAINST EARTH	-	3 INCHES
B. EXPOSED TO EARTH OR WEATHER		
#6 BARS AND BIGGER	-	2 INCHES
#5 BARS AND SMALLER	-	1.5 INCHES
C. BEAMS AND COLUMNS	-	1.5 INCHES
D. SLABS AND WALLS	-	1 INCH
9. REPAIR ANY DAMAGE TO VAPOR RETARDER PER MANUFACTURER SPECIFICATIONS.
10. ADDITIONAL REINFORCING TO BE PROVIDED ON SITE FOR USE AS DIRECTED BY STRUCTURAL ENGINEER.

#4 BARS	-	100 FT.
#5 BARS	-	100 FT.
#6 BARS	-	100 FT.

MASONRY

1. MATERIALS:
 - A. CONCRETE BLOCK: MEDIUM WEIGHT ASTM C90 (HOLLOW) ASTM C145 (SOLID) MINIMUM COMPRESSIVE STRENGTH: 1900 PSI
 - B. MORTAR: ASTM C270 TYPE S
 - C. GROUT: MINIMUM COMPRESSIVE STRENGTH: 2000 PSI
 - D. NET AREA COMPRESSIVE STRENGTH: 1500 PSI TO BE TESTED IN ACCORDANCE TO ATSM C1314 STANDARDS.
 - E. JOINT REINFORCING: MILL GALVANIZED FINISH, 9 GAGE MINIMUM SIDE WIRES AND CROSS WIRES (DUR-O-WALL). A HOHMANN + BARNARD COMPANY.
 - F. BAR REINFORCING: ASTM A615, GRADE 60 (UNLESS NOTED OTHERWISE).
 - G. TYPICAL CMU WALL REINFORCING SHALL BE #5 (V) AT 48" O.C. AND #5 (H) AT 8'-0" O.C. U.N.O. ON DRAWINGS.
2. REINFORCED MASONRY, WHERE VERTICAL BARS ARE TO BE GROUTED INTO CORES, THE FOLLOWING REQUIREMENTS APPLY:
 - A. PROVIDE DOWELS FROM WALL, SAME SIZE AND SPACING AS WALL BARS. LAP 48 BAR DIAMETERS MINIMUM WITH WALL BAR
 - B. PROVIDE A CONTINUOUS VERTICAL CAVITY, AT LEAST 2" x 3" IN SIZE, FREE OF MORTAR DROPPINGS.
 - C. PROVIDE REBAR ALIGNMENT DEVICES AT A MAXIMUM SPACING OF 96 BAR DIAMETERS (MINIMUM OF 2 PER BAR).
 - D. AT SPLICES IN VERTICAL BARS, PROVIDE MECHANICAL COUPLERS OR 48 BAR DIAMETER LAP.
 - E. ALL REINFORCEMENT MUST BE INSTALLED AND SECURELY ANCHORED IN PLACE PRIOR TO PLACEMENT OF GROUT.
 - F. MAXIMUM HEIGHT OF GROUT LIFT = 4'-0". UNLESS HIGH LIFT GROUTING PROCEDURES ARE EMPLOYED IN ACCORDANCE WITH ASI 530-99
3. MISCELLANEOUS:
 - A. FILL CORE SOLID AROUND ANCHOR BOLTS.
 - B. PROVIDE SOLIDLY FILLED HOLLOW BLOCKS AT ALL EMBED ANCHOR LOCATIONS.
 - C. SET WELD PLATES IN BOND BEAMS AFTER THE GROUT IS PLACED, BUT WHILE IT IS STILL PLASTIC.
 - D. HOLLOW MASONRY UNITS TO BE LAID WITH FULL MORTAR COVERAGE ON HORIZONTAL AND VERTICAL FACE SHELLS. WEBS SHALL ALSO BE BEDDED IN ALL COURSES OF PIERS, COLUMNS, AND PILASTERS, AND IN THE STARTING COURSE ON FOOTING, AND WHEN ADJACENT TO CELLS OR CAVITIES TO BE REINFORCED OR FILLED WITH CONCRETE OR GROUT. SOLID UNITS TO BE LAID WITH FULL HEAD AND BED JOINTS.
 - E. PROVIDE JOINT REINFORCING AT 16 INCHES, EXCEPT AS NOTED.
 - F. LAP JOINT REINFORCING 6 INCHES FOR STANDARD, 15 INCHES FOR HEAVY WEIGHT.
 - G. VERTICAL CONTROL JOINTS SHALL BE PROVIDED FULL HEIGHT OF MASONRY WALLS AS LOCATED ON THE DRAWINGS. THE JOINT SHALL BE PROVIDED AS A CONTINUOUS HEAD JOINT WITH MORTAR RAKED BACK 3/4" AT BOTH FACES AND 50% OF THE HORIZONTAL JOINT REINFORCING CUT AT THE JOINT. AFTER THE MORTAR IS SET, THE JOINT SHALL BE CAULKED.
 - H. FILL ALL VOIDS AND CELLS WITHIN 12" EITHER SIDE OF CENTERLINE OF BEAM AND/OR COLUMN BEARING LOCATIONS WITH A #4 REINFORCING BAR AND GROUT U.N.O.
 - I. ALL CMU WALLS MUST HAVE SPECIAL INSPECTION PER IBC CODE 2012 SECTION 1705.4 "MASONRY CONSTRUCTION" ON CHAPTER 17-"STRUCTURAL TEST & SPECIAL INSPECTION". THE CONTRACTOR MUST PROVIDE REPORTS OF THESE "SPECIAL INSPECTIONS"
 - J. BARS SCHEDULED "CONTINUOUS" SHALL BE SPLICED AS FOLLOWS:

REINFORCING BAR SIZE	MIN. LAP SPlice LENGTH
#5	30"
#6	36"
#7	42"
#8	48"
#9	54"
#10	MECHANICAL CONNECTOR
#11	
4. STABILITY AND BRACING:
ALL MASONRY WALLS SHOWN ON THE CONTRACT DRAWINGS HAVE BEEN DESIGNED TO RESIST THE REQUIRED CODE VERTICAL AND LATERAL FORCES APPLIED TO THEM IN THEIR FINAL CONSTRUCTED POSITION ONLY ASSUMING FULL BRACING AT TOP, BOTTOM, AND/OR SIDES AS INDICATED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT CONSTRUCTION RESIST ANY ERECTION VERTICAL OR LATERAL LOADS THAT COULD BE IMPOSED ON THE WALLS PRIOR TO CONSTRUCTION COMPLETION.
5. TESTING:
 - A. TESTING FREQUENCY: ONE SET OF SPECIFIED TESTS FOR EVERY 5,000 SF OF COMPLETED WALL AREA.
 - B. TESTING OF MORTAR MIX: IN ACCORDANCE WITH ASTM C780 FOR AGGREGATE RATIO AND WATER CONTENT, AIR CONTENT, CONSISTENCY, AND COMPRESSIVE STRENGTH.
 - C. TESTING OF GROUT MIX: IN ACCORDANCE WITH ASTM C1019 FOR COMPREHENSIVE STRENGTH, AND IN ACCORDANCE WITH ASTM C143/C143M FOR SLUMP.
 - D. TEST COMPREHENSIVE STRENGTH OF MORTAR AND MASONRY TO ASTM C1314: TEST IN ACCORDANCE WITH MASONRY UNIT SECTIONS SPECIFIED.
6. GENERAL CONTRACTOR SHALL HOLD A PRE-CONSTRUCTION MEETING WITH STRUCTURAL ENGINEER AND MASONRY CONTRACTOR BEFORE MASONRY WORK COMMENCES.

CONTRACTOR NOTE


THE STRUCTURAL SYSTEM FOR THIS PROJECT SHALL NOT BE CONSTRUCTED BY USING THE STRUCTURAL DRAWINGS ALONE. THESE DRAWINGS WERE DEVELOPED FROM DATA DERIVED PRIMARILY FROM THE ARCHITECTURAL DRAWINGS AND SECONDARILY FROM MEP, CIVIL AND OTHER DISCIPLINES' DOCUMENTS. IT IS INTENDED THAT CONSTRUCTION PROCEED BY UTILIZING ALL OF THE INFORMATION CONTAINED IN THE ENTIRE SET OF CONSTRUCTION DOCUMENTS TAKEN AS A WHOLE; FAILURE TO DO SO WILL RESULT IN ERRORS WHICH SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.

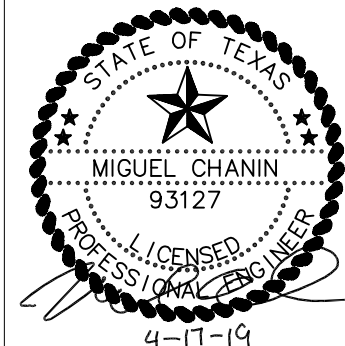
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P.S.J.A.-ISD
CARMAN ELEM.& SANTOS LIVAS ELEM.
PLAYGROUND IMPROVEMENTS

JOB NO. 19154
FILE NO. dwg/psjs/reeroofing 17-18
ADD#1S110 SHEET OF X