



Beach Access #16 Neptune Circle Improvements

ADDENDUM NO. 2

GREEN, RUBIANO & ASSOCIATES

Structural Engineers

Project Engineer

Green, Rubiano & Associates

1220 W. Harrison Ave.

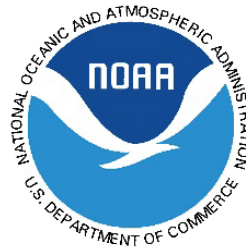
Harlingen, TX 78550

(956) 428-4461

gra@graengineering.com

This project is funded, in part, by a Texas Coastal Management Program grant approved by the Texas Land Commissioner pursuant to National Oceanic and Atmospheric Administration Award

No. NA23NOS4190249



ADDENDUM NO. 2

City of South Padre Island
Beach Access #16 Neptune Circle Improvements
South Padre Island, TX

Prepared by:
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Contact: Rolando Rubiano, P.E.
T: 956-428-4461 Email: gra@graengineering.com

Date: September 19, 2024

This Addendum is supplemental to, and a part of the plans, specifications, and proposal documents for the above project, and all previous and future addenda, and all terms and conditions of those documents apply to this addendum and vice versa.

This addendum includes:

Civil Sheet Index & Added Drawings:

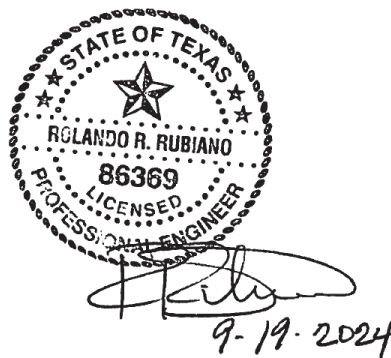
1.

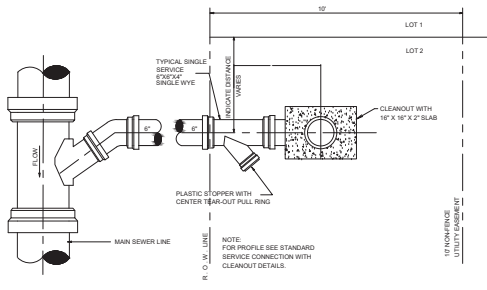
| | |
|-----|--|
| C.1 | Existing Topography, Utilities & Improvements |
| C.2 | Proposed Utility Layout & Connections |
| | Proposed Grading & Pavement |
| C.3 | (Pending, to be issued via Addendum No.3) |
| | Paving Details |
| C.4 | (Pending, to be issued via Addendum No.3) |
| C.5 | Sanitary Sewer Connection Details |
| C.6 | Water Line Details |
| C.7 | Storm Water Pollution Prevention Plan Requirements |

Bid Package Distribution List:

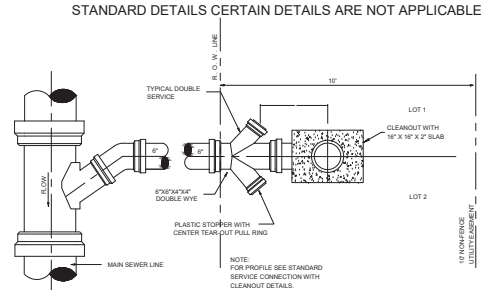
2. List of Bidders who have requested Bid Documents

END OF ADDENDUM NO. 2

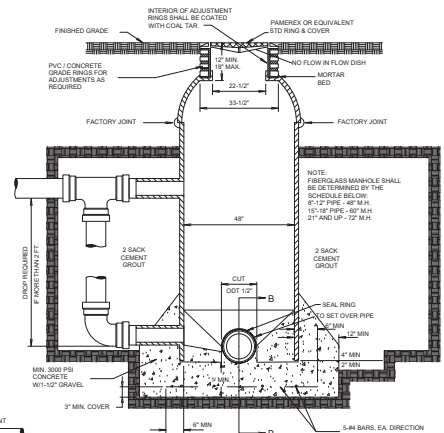




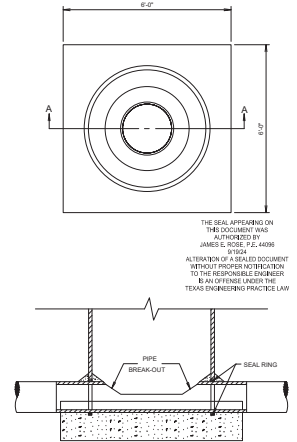
PLAN - SINGLE SERVICE
NOT TO SCALE



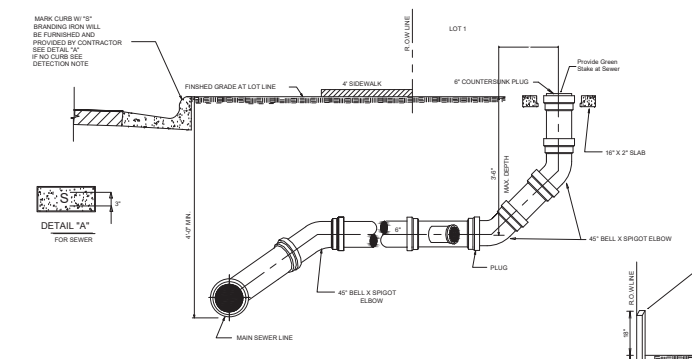
PLAN - DOUBLE SERVICE
NOT TO SCALE



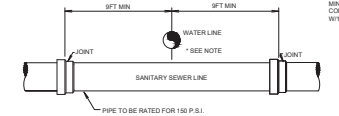
TYPICAL FIBERGLASS MANHOLE
WITH DROP STRUCTURE
SECTION A-A
NOT TO SCALE



SECTION B-B
NOT TO SCALE



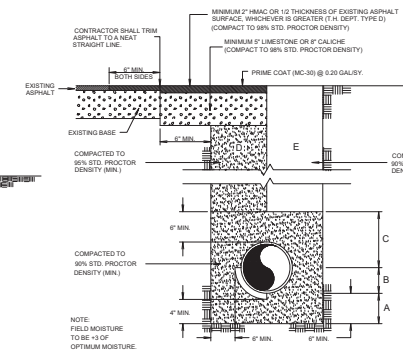
TYPICAL SHORT SERVICE CONNECTION
WITH STANDARD CLEANOUT
NOT TO SCALE



TYPICAL WATER & SEWER LINE CROSSING
NOT TO SCALE

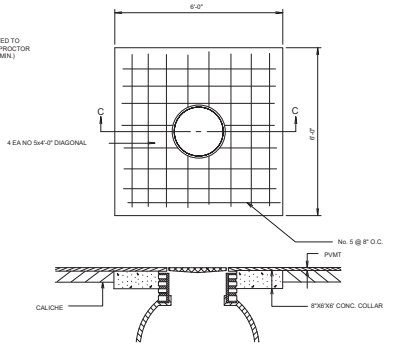
* NOTE:
1 FT. MIN. ELEVATION SEPARATION BETWEEN
WATER AND SEWER MAINS IF HANGAR
ENGAGEMENT REQUIRED. ENCASMENT CAN BE
STEEL CASING OR CONCRETE.

LOCATE AT ROW LINE
DO NOT PUT IN STREET ROW.
SERVICE MARKING FOR
EXISTING CURB OR NO CURB
NOT TO SCALE



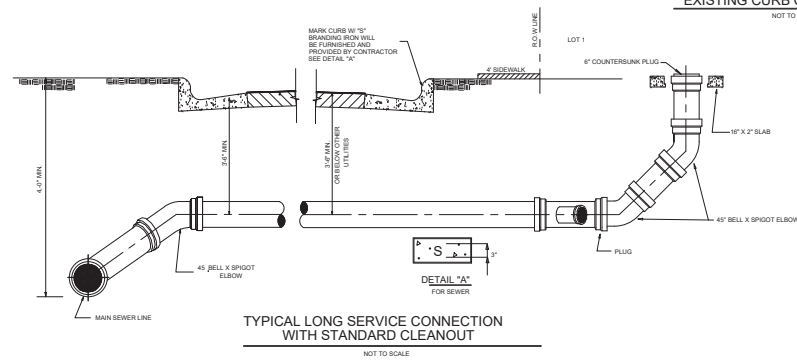
TYPICAL PIPE BEDDING AND
TRENCH BACKFILL DETAIL
NOT TO SCALE

- A SAND BEDDING PLACED BEFORE PIPE IS LAD UP TO FLOW LINE OF PIPE (MIN. THICKNESS 4\"/>



TYPICAL FIBERGLASS MANHOLE IN PAVEMENT
SECTION C-C
NOT TO SCALE

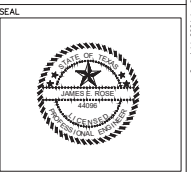
NOTE:
THE ENGINEER/CONTRACTOR SHALL PROVIDE LMWD WITH \"CUT-SHEETS\" PRIOR TO APPROVAL FOR BEGINNING CONSTRUCTION PROJECTS. THE \"CUT-SHEETS\" WILL BE USED TO VERIFY PIPE ELEVATIONS.



TYPICAL LONG SERVICE CONNECTION
WITH STANDARD CLEANOUT
NOT TO SCALE

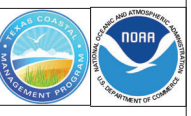
Mejia & Rose, Incorporated
Engineering
T.E.P.E. Reg. No. P-5770
T.S.P.L.S. Reg. No. 10022800
1648 West Drive, Round Rock, TX 78681
P.O. Box 3761, Round Rock, TX 78680
Tel: (800) 244-3888

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CONSULTING STRUCTURAL ENGINEERS
1220 WEST HARRISON
HARLINGEN, TEXAS 78550
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GRABGRAENGINEERING.COM



PROJECT
SOUTH PADRE ISLAND, TEXAS
SPI NEPTUNE CIRCLE BEACH ACCESS IMPROVEMENTS

CITY OF SOUTH PADRE ISLAND
South Padre Island
SOUTH PADRE ISLAND, TEXAS
P: 956-761-3044
F: 956-761-3898



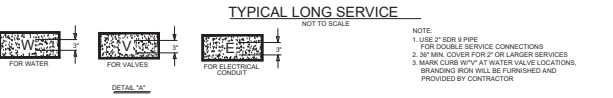
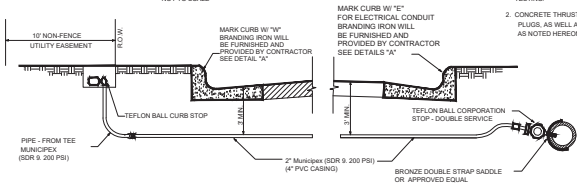
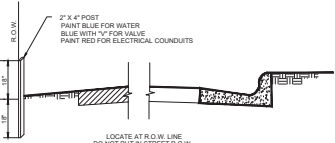
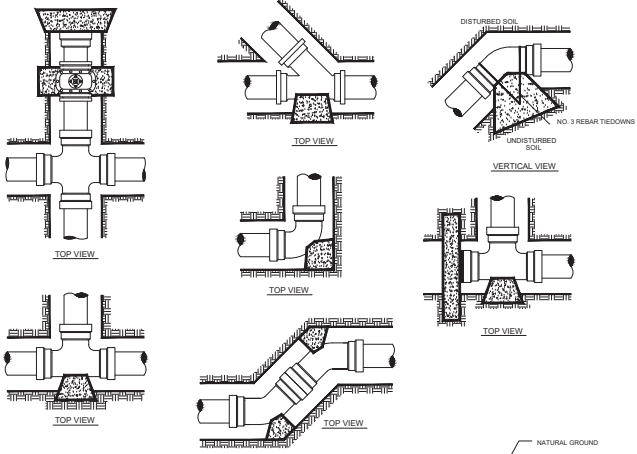
| MARK | DATE | DESCRIPTION |
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| | | |
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PROJECT NO. 1065-21
DATE 08-09-2024
DRAWN BY AT
CHECKED BY BD
SCALE AS SHOWN
SHEET TITLE

SANITARY SEWER DETAILS

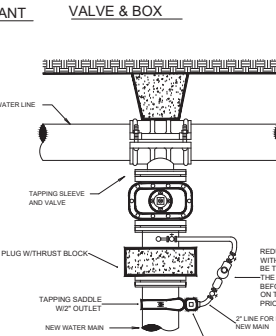
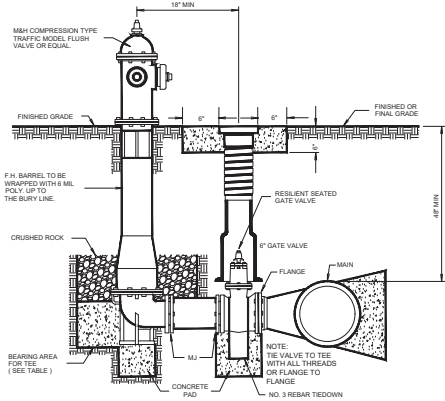
SHEET NO.
C-5
OF C7

STANDARD DETAILS CERTAIN DETAILS ARE NOT APPLICABLE



| PIPE SIZE | 6" | | 8" | | 10" | | 12" | | 16" | |
|--------------------------|-----------------------|----------------------------|-----------------------|----------------------------|-----------------------|----------------------------|-----------------------|----------------------------|-----------------------|----------------------------|
| | MIN. BEARING AREA FT. | RECOM. DIMENSION FT. X FT. | MIN. BEARING AREA FT. | RECOM. DIMENSION FT. X FT. | MIN. BEARING AREA FT. | RECOM. DIMENSION FT. X FT. | MIN. BEARING AREA FT. | RECOM. DIMENSION FT. X FT. | MIN. BEARING AREA FT. | RECOM. DIMENSION FT. X FT. |
| TEE (OR TAPPING SLEEVE) | 5.9 | 2.9X2.2' | 10.1 | 3.2X3.2' | 16.4 | 4.1X4.1' | 23.3 | 4.9X4.9' | 40.8 | 6.4X6.4' |
| DEAD END | 5.9 | 2.9X2.2' | 10.1 | 3.2X3.2' | 16.4 | 4.1X4.1' | 23.3 | 4.9X4.9' | 40.8 | 6.4X6.4' |
| VALVE (OR TAPPING VALVE) | 5.9 | 2.9X2.2' | 10.1 | 3.2X3.2' | 16.4 | 4.1X4.1' | 23.3 | 4.9X4.9' | 40.8 | 6.4X6.4' |
| 90° ELBOW | 8.3 | 2.9X2.2' | 14.1 | 3.8X3.8' | 23.1 | 4.9X4.9' | 23.7 | 5.8X5.8' | 57.5 | 7.9X7.9' |
| 45° ELBOW | 4.5 | 2.9X2.2' | 7.7 | 2.9X2.2' | 12.6 | 3.8X3.8' | 17.9 | 4.7X4.7' | 31.4 | 5.8X5.8' |
| 22-1/2° ELBOW | 2.3 | 1.6X1.6' | 3.9 | 2.9X2.2' | 6.5 | 2.9X2.2' | 9.2 | 3.1X3.1' | 15.9 | 4.0X4.0' |

NOTE:
1. MINIMUM BEARING SURFACE OF THRUST BLOCK SHALL BE AS NOTED IN TABLE.
2. BEARING SURFACE SHALL BE UNDISTURBED SOIL.



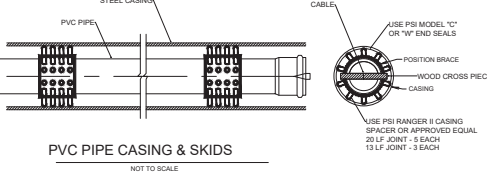
NOTE:
WATER USAGE FOR ALL INITIAL TESTING WILL NOT BE BILLING TO THE CONTRACTOR. ANY RE-TESTING NEEDED WILL BE THE RESPONSIBILITY OF THE CONTRACTOR INCLUDING PAYMENT OF ADDITIONAL WATER NEEDED. CONTRACTOR WILL BE ALLOWED TO FLUSH THE WATERLINE INITIALLY FOR A MAXIMUM OF 12-24 HRS. OR AS DETERMINED BY THE ENGINEER. IF FLUSHING IS DETERMINED TO BE LONGER, THE ENGINEER WILL BE REQUIRED TO SUPPLY THE PROPER DOCUMENTATION AND CALCULATIONS TO SUPPORT SUCH FINDINGS.

AMOUNT OF FLOW TO BE USED FOR FLUSHING WILL BE MONITORED AND REGULATED BY THE DISTRICT INSPECTORS. CONTRACTOR WILL NOT BE ALLOWED TO TIE-IN TO EXISTING WATER LINE UNTIL ALL TEST ON NEW LINES HAVE BEEN COMPLETED AND APPROVED.

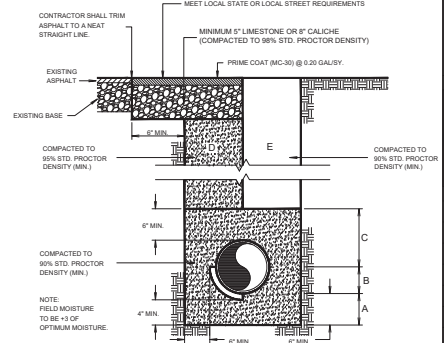
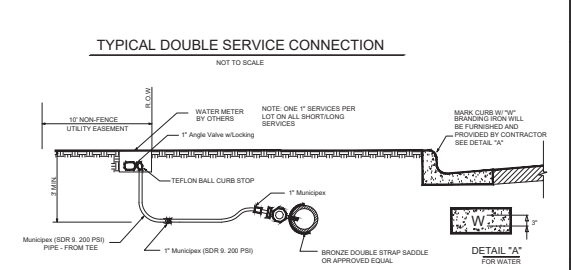
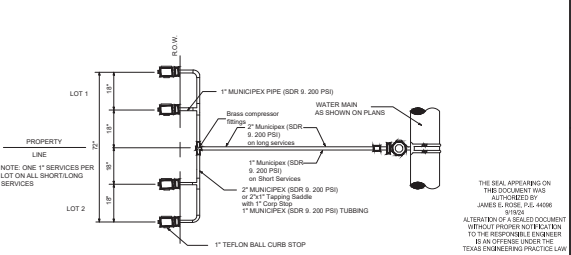
STEEL CASING WALL THICKNESS CHART

| MINIMUM THICKNESS | DIAMETER OF CASING PIPE |
|-------------------|-------------------------|
| 1/4" | 12" OR LESS |
| 5/16" | OVER 12"-18" |
| 3/8" | OVER 18"-22" |
| 7/16" | OVER 22"-30" |
| 1/2" | OVER 30"-34" |
| 9/16" | OVER 34"-42" |
| 5/8" | OVER 42"-48" |

OVER 48" MUST BE APPROVED BY B.P.U.B.
NOTE: THIS CHART IS ONLY FOR SMOOTH WALL CASING PIPES WITH MINIMUM YIELD STRENGTH OF 35,000 PSI

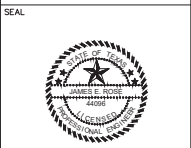


| NOMINAL PIPE SIZE | CASING SIZE | NO. OF SKIDS |
|-------------------|-------------|--------------|
| 6" | 12" | 4 |
| 8" | 16" | 4 |
| 12" | 20" | 4 |
| 16" | 24" | 5 |



A SAND BEDDING PLACED BEFORE PIPE IS LAID UP TO FLOW LINE OF PIPE (MIN THICKNESS 1/4")
B SAND BACKFILL PLACED AFTER PIPE IS LAID FROM BOTTOM OF PIPE TO SPRING LINE OF PIPE (4' LIFTS, HAND TAMPED)
C SAND BACKFILL PLACED FROM SPRING LINE OF PIPE TO 6" ABOVE TOP OF PIPE (4 LIFTS, HAND TAMPED)
D SAND BACKFILL, CLASS "A" (12' LIFTS, MECHANICAL COMPACTION)
E EARTH BACKFILL, CLASS "B" (12' LIFTS, MECHANICAL COMPACTION)
FOUNDATION PREPARATION (WELLPPOINTS, GRAVEL OR CEMENT STABILIZATION, OR APPROVED SUBSTITUTE) SHALL BE REQUIRED WHEN TRENCH BOTTOM IS UNSTABLE.
BACKFILL AT STRUCTURES SHALL BE PLACED IN UNIFORM LAYERS, MOISTENED AS REQUIRED TO APPROXIMATE OPTIMUM MOISTURE CONTENT, AND COMPACTION TO 98% STD. PROCTOR DENSITY.
EACH LOOSE LAYER SHALL NOT EXCEED 12" IN THICKNESS.
MATERIAL SHALL BE SAND, APPROVED SITE SPECIFIC SUBSTITUTES.
1648 Hwy 9781, (409) 244-3333
T.P.L.C. Reg. No. P-2289990
No. 1022900
(501) 546-3032
P.O. Box 9781, (409) 244-3333
Fax: (409) 244-3333

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PROJECT
SPI NEPTUNE CIRCLE
BEACH ACCESS
IMPROVEMENTS
SOUTH PADRE ISLAND,
TEXAS



CLIENT
CITY OF
SOUTH PADRE ISLAND
SOUTH PADRE ISLAND,
TEXAS
P: 956-761-3044
F: 956-761-3898



| MARK | DATE | DESCRIPTION |
|------|------|-------------|
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| | | |
| | | |
| | | |

PROJECT NO. 1065-21
DATE 08-09-2024
DRAWN BY AT
CHECKED BY BD
SCALE 1"=20'
SHEET TITLE

WATER LINE DETAILS

SHEET NO.
C-6
OF
C7

GREEN, RUBIANO & ASSOCIATES

Structural Engineers
Firm Registration #: F-4145

1220 West Harrison
Harlingen, Texas 78550
(956) 428-4461
www.graengineering.com

SPI Beach Access #16 Neptune Circle Improvements

Contractor Bid Package Distribution List

| Company Name | Contact | Phone Number | E-mail |
|----------------------------|---------------------|----------------|--|
| SPI | Kristina Boburka | 956-761-3837 | kboburka@myspi.org |
| RGV AGC Plan Room | San Juana Schwarz | 956-423-4091 | sanjuana@rgvagc.org |
| Builders Exchange | Heidi Shaffer | 877-221-6418 | southdesk@virtualbx.com |
| SSP Design | Patrick McCauley | (956) 547-9788 | patrick@sspdesign.com |
| Ethos Engineering | Cesar Gonzalez | 956-230-3435 | cgonzalez@ethos.net |
| Ethos Engineering | Gerardo Juarez | 956-230-3435 | gerardo@ethoseng.net |
| Ethos Engineering | Marisol Osorio | 956-230-3435 | marisol@ethoseng.net |
| NM Contracting | Larissa Perez | 956-631-5667 | frontdesk@nmcontracting.us |
| NM Contracting | Charles Anderson | 956-631-5667 | canderson@nmcontracting.us |
| NM Contracting | Andrew Munoz | 956-631-5667 | amunoz@nmcontracting.us |
| Mow-Wil | Alejandra Arredondo | 956-276-4702 | admin@mor-wil.com |
| Bryant Industrial Services | Daniel Bryant | 956-433-9783 | daniel@bryantindustrialservices.com |

GREEN, RUBIANO & ASSOCIATES

Structural Engineers
Firm Registration #: F-4145

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Harlingen, Texas 78550
(956) 428-4461
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| | | | |
|----------------------------|-----------------|-------------------------|--|
| Bryant Industrial Services | Kennedy Bryant | 956-244-3443 | Kenney78597@gmail.com |
| Bryant Industrial Services | Ray Moya | 956-433-9709 | rmoya@bryantindustrialservices.com |
| A&I Customer Manufacturer | Ismael Herrera | 956-592-6525 | Ismael.ai@hotmail.com |
| SpawGlass | Mike Fuentes | 956-793-5293 | Mike.fuentes@spawglass.com |
| SpawGlass | Sam Saldana | 956-412-9880 | Samuel.saldana@spawglass.com |
| Jerdon | Brandon White | 210-590-1110 | brandon@jerdonlp.com |
| Jerdon | James Tennant | 210-590-1110 | james@jerdonlp.com |
| Jerdon | Sean Bradley | 210-590-1110 | sean@jerdonlp.com |
| GRA | Rolando Rubiano | 956-428-4461 | gra@graengineering.com |
| Construct Connect | Justine Cataylo | 323-602-5079 ext. 75315 | justine.cataylo@constructconnect.com |
| Dodge Construction Network | Brenda Cusack | N/A | brenda.cusack@construction.com |
| Mejia & Rose, Inc. | Sergio Saldivar | 956-544-3022 | ssaldivar@cngmail.com |
| Mejia & Rose, Inc. | Jim Rose | 956-544-3022 | jrose@cngmail.com |
| | | | |