

**REVIEW BY FORT BEND COUNTY  
COMMISSIONERS COURT**

**Fort Bend County  
Engineering Department**  
301 Jackson Suite 401  
Richmond, Texas 77469  
281.633.7500  
Permits@fortbendcountytexas.gov

☐ Right of Way Permit  
☒ Commercial Driveway Permit

Permit No: 2017-14693

**Applicant:** The Redeemed Christian Church of God Mercy Hall

**Job Location Site:** 24814 Saddlespur Lane, katy, TX 77494

**Bond No.** 000000000 **Date of Bond:** 6/29/2017 **Amount:** \$5,000.00

The above applicant came to make use of certain Fort Bend County property subject to, "The Order Regulating the Laying, Construction, Maintenance, and Repair of Buried Cables, Conduits, and Pole Lines, In, Under, Across or Along Roads, Streets, Highways, and Drainage Ditches in Fort Bend County, Texas, Under the Jurisdiction of the Commissioners Court of Fort Bend County, Texas," as passed by the Commissioners Court of Fort Bend County, Texas, of the Minutes of the Commissioners Court of Fort Bend County, Texas, to the extent that such order is not inconsistent with Chapter 181, Vernon's Texas Statutes and Codes Annotated.

**Notes:**

1. Evidence of review by the Commissioners Court must be kept on the job site and failure to do so constitutes grounds for job shutdown.
2. Written notices are required:
  - a. 48 hours in advance of construction start up, and
  - b. When construction is completed and ready for final inspection, submit notification to Permit Administrator thru MyGovernmentOnline.org portal.
3. This permit expires one (1) year from date of permit if construction has not commenced.

On this 18th day of July, 2017, Upon Motion of Commissioner Meyers, seconded by Commissioner MORales, duly put and carried, it is ORDERED, ADJUDGED AND DECREED that said notice of said above purpose is hereby acknowledged by the Commissioners Court of Fort Bend County, Texas, and that said notice be placed on record according to the regulation order thereof.

**Signature**

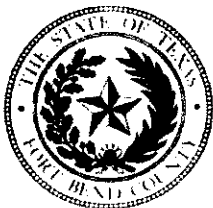
Presented to Commissioners Court and approved.

By: Charles O. Ay  
County Engineer

Date Recorded 7-21-2017 Comm. Court No. 9F

By: N/A  
Drainage District Engineer/Manager

Clerk of Commissioners Court  
By: Aronda Wilkins  
Deputy



**PERMIT APPLICATION REVIEW FORM FOR  
CABLE, CONDUIT, AND POLE LINE ACTIVITY  
IN FORT BEND COUNTY**

**Fort Bend County  
Engineering Department**  
301 Jackson Suite 401  
Richmond, Texas 77469  
281.633.7500  
Permits@fortbendcountytexas.gov

- ☐ Right of Way Permit  
☒ Commercial Driveway Permit

Permit No: 2017-14693

The following "Notice of Proposed Cable, Conduit, and/or Pole Line activity in Fort Bend County" and accompanying attachments have been reviewed and the notice conforms to appropriate regulations set by Commissioner's Court of Fort Bend County, Texas.

**(1) COMPLETE APPLICATION FORM:**

- ☒ a. Name of road, street, and/or drainage ditch affected.  
☒ b. Vicinity map showing course of directions  
☒ c. Plans and specifications

**(2) BOND:**

- ☐ County Attorney, approval when applicable.
- ☐ Perpetual bond currently posted. Bond No: \_\_\_\_\_ Amount: \_\_\_\_\_
- ☒ Performance bond submitted. Bond XXXXXXXXXX Amount: \$5,000.00
- ☐ Cashier's Check Check No: \_\_\_\_\_ Amount: \_\_\_\_\_

**(3) DRAINAGE DISTRICT APPROVAL (WHEN APPLICABLE):**

\_\_\_\_\_  
Drainage District Approval

\_\_\_\_\_  
Date

**We have reviewed this project and agree it meets minimum requirements.**

*Chandy O. Ay*

\_\_\_\_\_  
Permit Administrator

*7/10/17*  
\_\_\_\_\_  
Date

428.



Effective Date: June 29th, 2017

**PERFORMANCE BOND COVERING ALL CABLE, CONDUIT AND/OR POLE LINE  
ACTIVITY IN, UNDER, ACROSS OR ALONG FORT BEND COUNTY ROADS  
AUTHORIZED**

BOND NO [REDACTED]

THE STATE OF TEXAS }  
COUNTY OF FORT BEND } KNOW ALL MEN BY THESE PRESENTS:

**THAT WE,** The Redeemed Christian Church of God Mercy Hall

whose address is 24814 Saddlespur Ln., Katy, TX 77494, Texas  
hereinafter called the Principal, and WESTERN SURETY COMPANY,  
a Corporation existing under and by virtue of the laws of the State of South Dakota  
and authorized to do an indemnifying business in the State of Texas, and whose principal office is  
located at P.O. Box 5077, Sioux Falls, SD 57117-5077

[REDACTED], whose officer residing in the State of Texas, authorized to  
accept service in all suits and actions brought within said State is Robinson Insurance Agency

and whose address is 601 Austin Streer, Richmond, TX 77469,  
hereinafter called the Surety, and held and firmly bound unto, Robert E. Hebert, County Judge of  
Fort Bend County, Texas, or his successors in office, in the full sum of Five Thousand and 00/100  
Dollars (\$ 5,000.00 )

current, lawful money of the United States of America, to be paid to said Robert E. Hebert,  
County Judge of Fort Bend County, Texas, or his successors in office, to which payment well and  
truly to be made and done, we, the undersigned, bind ourselves and each of us, our heirs,  
executors, administrators, successors, assigns, and legal representatives, jointly and severally, by  
these presents.

**THE CONDITION OF THIS BOND IS SUCH THAT, WHEREAS,** the above bounden  
principal contemplates laying, constructing, maintaining and/or repairing one or more cables,  
conduits, and/or pole lines in, under, across and/or along roads, streets and highways in the  
County of Fort Bend, and the State of Texas, under the jurisdiction of the Commissioners' Court  
of Fort Bend County, Texas, pursuant to the Commissioners' Court order adopted on the 1st  
day of December, A.D. 1980, recorded in Volume 13, of the Commissioners' Court  
Minutes of Fort Bend County, Texas, regulating same, which Commissioners' Court order is  
hereby referred to and made a part hereof for all purposes as though fully set out herein;

**AND WHEREAS,** the principal desires to provide Fort Bend County with a performance  
bond covering all such cable, conduit and/or pole line activity;

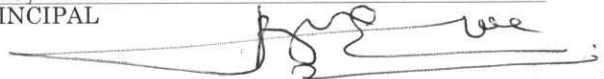
**NOW, THEREFORE,** if the above bounden principal shall faithfully perform all its cable,  
conduit and/or pole line activity (including, but not limited to the laying, construction,  
maintenance and/or repair of cables, conduits and/or pole lines) in, under, across and/or along  
roads, streets and highways in the County of Fort Bend and State of Texas, under the  
jurisdiction of the Commissioners Court of Fort Bend County, Texas, pursuant to and in  
accordance with minimum requirements and conditions of the above mentioned Commissioners'  
Court order set forth and specified to be by said principal done and performed, at the time and in  
the manner therein specified, and shall pay over and make good and reimburse Fort Bend  
County, all loss and damages which Fort Bend County may sustain by reason of any failure or  
default on the part of said principal, then this obligation shall be null and void, otherwise to  
remain in full force and effect.

This bond is payable at the County Courthouse in the County of Fort Bend and State of Texas.

It is understood that at any time Fort Bend County deems itself insecure under this bond, it may require further and/or additional bonds of the principal.

EXECUTED this 29th day of June, 2017.

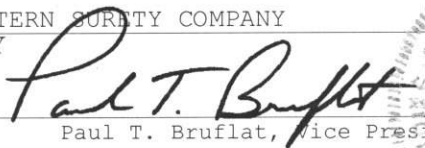
The Redeemed Christian Church of God  
Mercy Hall  
PRINCIPAL



BY

WESTERN SURETY COMPANY  
SURETY

BY

  
Paul T. Bruflat, Vice President

# Western Surety Company

## POWER OF ATTORNEY

### KNOW ALL MEN BY THESE PRESENTS:

That WESTERN SURETY COMPANY, a corporation organized and existing under the laws of the State of South Dakota, and authorized and licensed to do business in the States of Alabama, Alaska, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, District of Columbia, Florida, Georgia, Hawaii, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Vermont, Virginia, Washington, West Virginia, Wisconsin, Wyoming, and the United States of America, does hereby make, constitute and appoint

Paul T. Bruflat of Sioux Falls,  
State of South Dakota, its regularly elected Vice President,  
as Attorney-in-Fact, with full power and authority hereby conferred upon him to sign, execute, acknowledge and deliver for and on its behalf as Surety and as its act and deed, the following bond:

Cable, Conduit and/or Pole line Activity in, under, across or along County Roads County  
One of Fort Bend

bond with bond number [REDACTED]

for The Redeemed Christian Church of God Mercy Hall

as Principal in the penalty amount not to exceed: \$ 5,000.00

Western Surety Company further certifies that the following is a true and exact copy of Section 7 of the by-laws of Western Surety Company duly adopted and now in force, to-wit:

Section 7. All bonds, policies, undertakings, Powers of Attorney, or other obligations of the corporation shall be executed in the corporate name of the Company by the President, Secretary, any Assistant Secretary, Treasurer, or any Vice President, or by such other officers as the Board of Directors may authorize. The President, any Vice President, Secretary, any Assistant Secretary, or the Treasurer may appoint Attorneys-in-Fact or agents who shall have authority to issue bonds, policies, or undertakings in the name of the Company. The corporate seal is not necessary for the validity of any bonds, policies, undertakings, Powers of Attorney or other obligations of the corporation. The signature of any such officer and the corporate seal may be printed by facsimile.

In Witness Whereof, the said WESTERN SURETY COMPANY has caused these presents to be executed by its  
Vice President with the corporate seal affixed this 29th day of June,

2017.

ATTEST

L. Nelson

L. Nelson, Assistant Secretary

WESTERN SURETY COMPANY

By

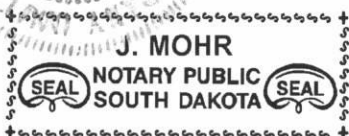
Paul T. Bruflat

Paul T. Bruflat, Vice President

STATE OF SOUTH DAKOTA }  
COUNTY OF MINNEHAHA } ss

On this 29th day of June, 2017, before me, a Notary Public, personally appeared  
Paul T. Bruflat and L. Nelson

who, being by me duly sworn, acknowledged that they signed the above Power of Attorney as Vice President  
and Assistant Secretary, respectively, of the said WESTERN SURETY COMPANY, and acknowledged said instrument to be the  
voluntary act and deed of said Corporation.



My Commission Expires June 23, 2021

J. Mohr

Notary Public

To validate bond authenticity, go to [www.cnasurety.com](http://www.cnasurety.com) > Owner/Obligee Services > Validate Bond Coverage.



Figure: 28 TAC §1.601(a)(3)

### **IMPORTANT NOTICE**

- 1 To obtain information or make a complaint:
- 2 You may contact Western Surety Company, Surety Bonding Company of America or Universal Surety of America at 605-336-0850.
- 3 You may call Western Surety Company's, Surety Bonding Company of America's or Universal Surety of America's toll-free telephone number for information or to make a complaint at:

**1-800-331-6053**

- 4 You may also write to Western Surety Company, Surety Bonding Company of America or Universal Surety of America at:

P.O. Box 5077  
Sioux Falls, SD 57117-5077

- 5 You may contact the Texas Department of Insurance to obtain information on companies, coverages, rights or complaints at:

**1-800-252-3439**

- 6 You may write the Texas Department of Insurance:

P.O. Box 149104  
Austin, TX 78714-9104  
Fax: (512) 490-1007  
Web: [www.tdi.texas.gov](http://www.tdi.texas.gov)  
E-Mail: [ConsumerProtection@tdi.texas.gov](mailto:ConsumerProtection@tdi.texas.gov)

### **7 PREMIUM OR CLAIM DISPUTES:**

Should you have a dispute concerning your premium or about a claim you should contact Western Surety Company, Surety Bonding Company of America or Universal Surety of America first. If the dispute is not resolved, you may contact the Texas Department of Insurance.

### **8 ATTACH THIS NOTICE TO YOUR POLICY:**

This notice is for information only and does not become a part or condition of the attached document.

### **AVISO IMPORTANTE**

Para obtener informacion o para someter una queja:

Puede comunicarse con Western Surety Company, Surety Bonding Company of America o Universal Surety of America al 605-336-0850.

Usted puede llamar al numero de telefono gratis de Western Surety Company's, Surety Bonding Company of America's o Universal Surety of America's para informacion o para someter una queja al:

**1-800-331-6053**

Usted tambien puede escribir a Western Surety Company, Surety Bonding Company of America o Universal Surety of America:

P.O. Box 5077  
Sioux Falls, SD 57117-5077

Puede comunicarse con el Departamento de Seguros de Texas para obtener informacion acerca de companias, coberturas, derechos o quejas al:

**1-800-252-3439**

Puede escribir al Departamento de Seguros de Texas:

P.O. Box 149104  
Austin, TX 78714-9104  
Fax: (512) 490-1007  
Web: [www.tdi.texas.gov](http://www.tdi.texas.gov)  
E-Mail: [ConsumerProtection@tdi.texas.gov](mailto:ConsumerProtection@tdi.texas.gov)

### **DISPUTAS SOBRE PRIMAS O RECLAMOS:**

Si tiene una disputa concniente a su prima o a un reclamo, debe comunicarse con el Western Surety Company, Surety Bonding Company of America o Universal Surety of America primero. Si no se resuelve la disputa, puede entonces comunicarse con el departamento (TDI).

### **UNA ESTE AVISO A SU POLIZA:**

Este aviso es solo para proposito de informacion y no se convierte en parte o condicion del documento adjunto.

**FILED AND RECORDED**  
**OFFICIAL PUBLIC RECORDS**

*Laura Richard*



Laura Richard, County Clerk  
Fort Bend County, Texas

July 21, 2017 03:21:32 PM

FEE: \$0.00 RMM  
BOND

**2017081449**

KEY MAP 485J

LOCATION MAP



## AERIAL MAP

## SHEET INDEX

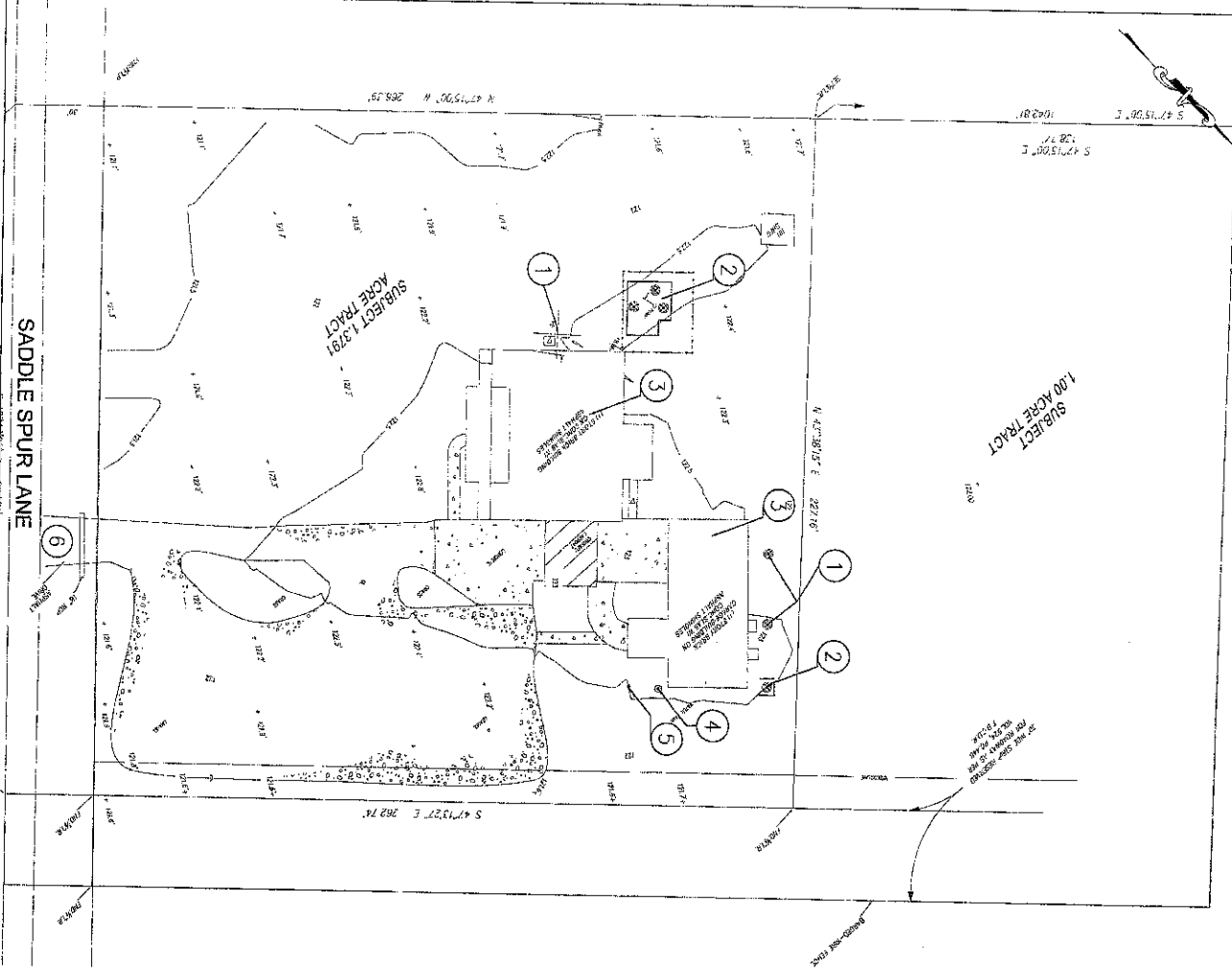
[illegible]

EAST BEND COUNTY ENGINEER  
 ENGINEER: *ROL D. STEIN, JR. P226*  
 FOR: *REHAB. OF STILES, PE*  
 DATE: *6/23/17*  
 THESE PLANS ARE A PART OF A CONSTRUCTION  
 HAS NOT COMPLETED BY THE FIRM FOR THE  
 OF APPROVAL: *[Signature]*  
 APPROVED: *[Signature]*  
 SEWERAGE & WATER DIVISION  
 DATE: *6/23/17*

NEDU ENGINEERING SERVICES, INC.  
 45726 Highway 2700, Suite 202  
 Plymouth, MN 55441  
 Phone: 763.881.1449  
 FAX: 763.881.1448  
 TYPE NO. F-8029

DRAWING SCALE  
 SHEET NO. 1 OF 11





**KEYED NOTES**

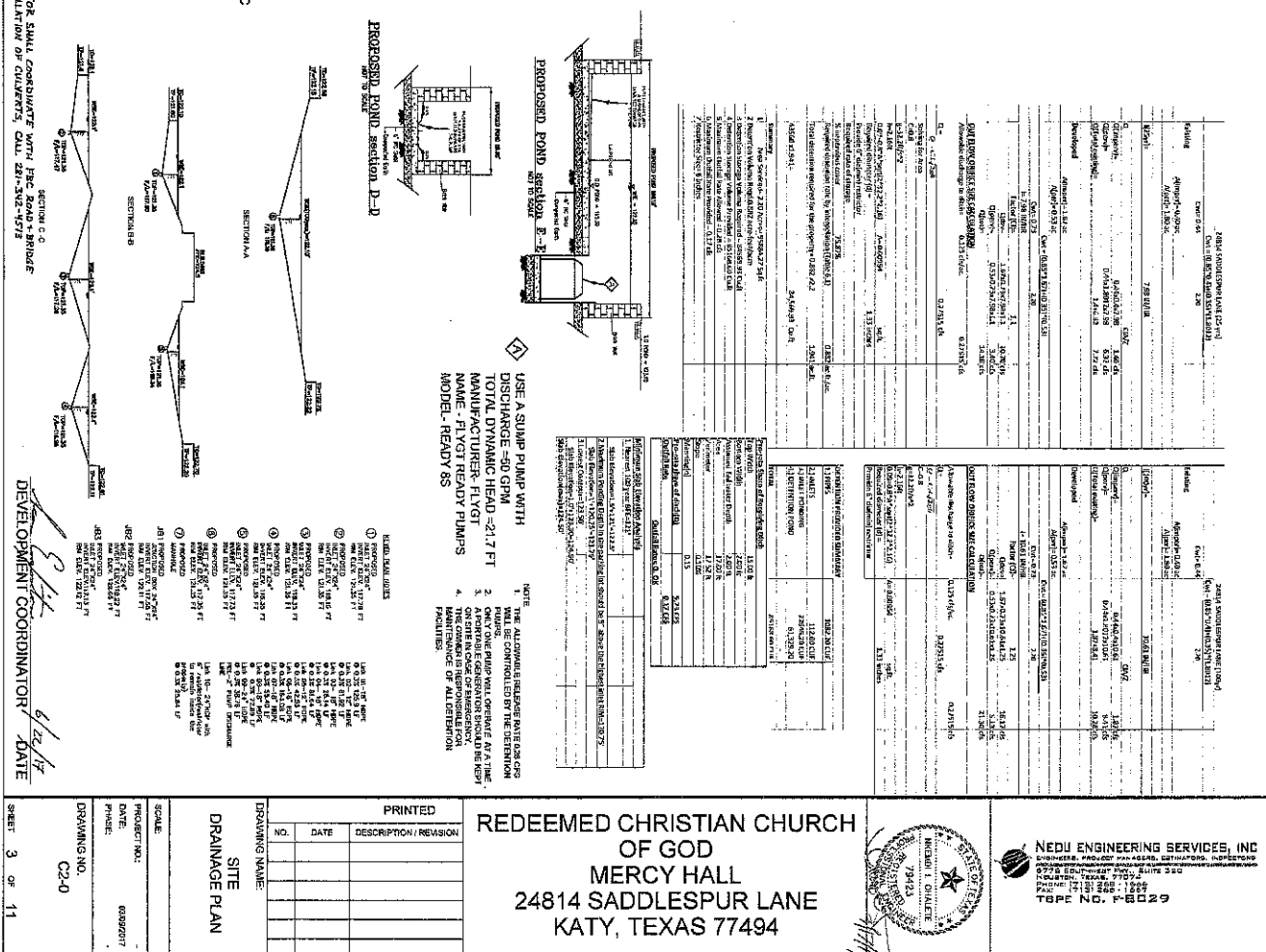
- ① EXISTING A.C. UNITS TO BE REMOVED AND SALVAGED FOR THE OWNER
- ② EXIST. SEPTIC SYST. TO BE REMOVED AND RELOCATED
- ③ EXISTING BUILDING TO REMAIN
- ④ EXISTING WATER TANK TO REMAIN
- ⑤ EXISTING WATER WELL TO REMAIN
- ⑥ EXISTING DRIVEWAY AND CULVERT TO BE REMOVED

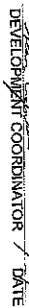
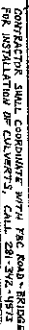
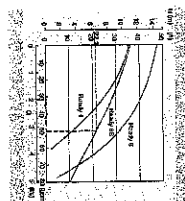
**GENERAL NOTES**

- 1. ALL EXISTING STRUCTURES, UTILITIES AND OTHER FEATURES ARE SHOWN IN APPROXIMATE LOCATION. CONTRACTOR SHALL FIELD VERIFY THEIR ACTUAL LOCATIONS AND/OR DEPTHS PRIOR TO COMMENCING WORK.
- 2. UNLESS OTHERWISE NOTED, ALL EXISTING STRUCTURES, UTILITIES, ETC. ARE TO REMAIN. CONTRACTOR SHALL BE FULLY RESPONSIBLE TO PROTECT ALL SITE FEATURES THAT ARE NOT TO BE REMOVED. ANY DAMAGE TO THOSE FEATURES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITION OR BETTER AT CONTRACTOR'S FULL EXPENSE.
- 3. ALL WORK ON THIS PROJECT SHALL BE IN COMPLIANCE WITH FORT BEND COUNTY AND CITY OF HOUSTON BUILDING REQUIREMENTS.
- 4. DETENTION POND AND APPURTENANCES SHALL BE OWNED AND MAINTAINED BY THE PROPERTY OWNER.

DEVELOPMENT COORDINATION DATE 6/22/17

<p><b>PRINTED</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION / REVISION</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table> <p>DRAWING NAME: SITE / DEMO PLAN</p>	NO.	DATE	DESCRIPTION / REVISION																<p><b>REDEEMED CHRISTIAN CHURCH OF GOD MERCY HALL 24814 SADDLESPUR LANE KATY, TEXAS 77494</b></p>	<p><b>NEDU ENGINEERING SERVICES, INC.</b>          24814 SADDLESPUR LANE        KATY, TEXAS 77494        PHONE: (281) 388-1555        FAX: (281) 388-1555        TEPE NO. F-8029</p>
NO.	DATE	DESCRIPTION / REVISION																		
<p>SCALE: 1"=20'</p> <p>PRODUCT NO.: 0006537</p> <p>DATE: 6/22/17</p> <p>PHASE: 1</p> <p>DRAWING NO.: C1-0</p> <p>SHEET 2 OF 11</p>																				



STATION OPERATION TABLES

**KEYED NOTES**

- ⑨ CONSTRUCT NEW DRIVEWAY AS SHOWN.
- ⑩ SAW CUT AND REMOVE EXISTING CONCRETE CURB.
- ⑪ LEFT POLE TYPICAL.

**NOTE**

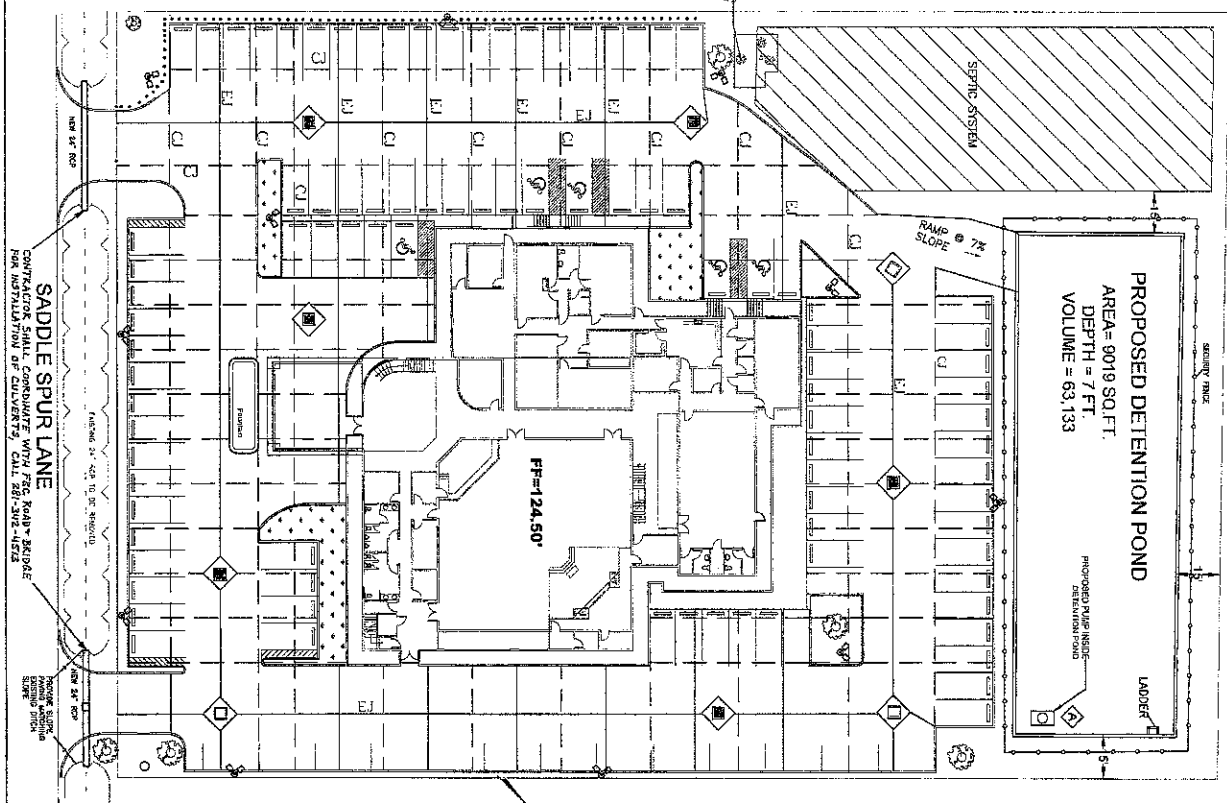
INDICATOR SHALL FIELD VERIFY THE LOCATIONS OF EXISTING UTILITIES AND DRINK BELLWATERS.

A PHOTOCELL "ON" ASTRONOMIC "LINE SWITCH" "OFF" SCHEME OR A PHOTOCELL "ON" LIGHTING CONTROL PANEL "OFF" WILL CONTROL EXTERIOR LIGHTING.



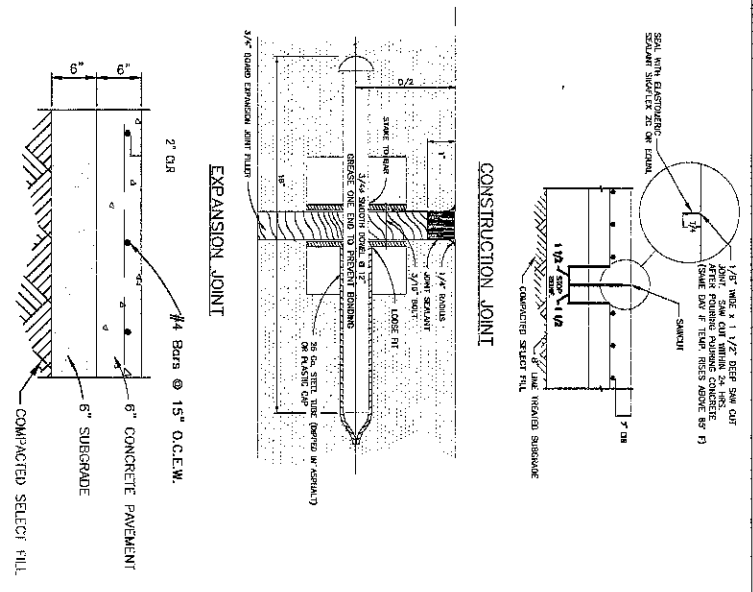
**NEDU ENGINEERING SERVICES, INC.**  
ENGINEERS, PROJECT MANAGERS, ESTIMATORS, AND COSTERS  
6776 SOUTHWEST Fwy., SUITE 220  
HOUSTON, TEXAS, 77074  
PHONE: (713) 568-1699  
FAX: (713) 568-1667  
TELE NO. F8029

[illegible]



1. SUBGRADE TO BE STABILIZED WITH 7% LIME IN ACCORDANCE WITH TxDOT SPECIFICATION ITEM 260. COMPACT LIME TREATED SUBGRADE TO 95% STANDARD PROCTOR DENSITY PER ASTM D-698. EXTEND LIME TREATED SUBGRADE 5' PAST PAVING LIMITS.
2. SUBGRADE PREPARATION  
A MINIMUM 1 FOOT OF TOP SOIL BE REMOVED AND WASTED. SUBGRADE PREPARATION SHOULD EXTEND A MINIMUM OF 2 FEET BEYOND THE PAVING PERIMETER. SUBGRADE PREPARATION INCLUDES REMOVAL OF VEGETATION, ROOTS, AS WELL AS DEBRIS. THE EXPOSED SURFACE SHOULD THEN BE PROOF-ROLLED IN ACCORDANCE WITH THE 2004 TxDOT STANDARD SPECIFICATIONS ITEM 216. THE SURFACE SHOULD BE CHECKED BY QUALIFIED GEOTECHNICAL PROFESSIONALS TO IDENTIFY ANY WEAK OR DRY SOILS, AND DEFECTIVE MATERIALS. THESE MATERIALS SHOULD BE REMOVED AND REPLACED WITH SELECT FILL IN ACCORDANCE WITH NOTE 3.
3. SELECT FILL  
SELECT FILL SHOULD CONSIST OF A NON-ACTIVE INORGANIC SANDY LEAN CLAY, HAVING A PL ON-SITE FAT CLAY WITH PI GREATER THAN 20 ARE TO BE USED AS SELECT FILL. THEY SHOULD BE STABILIZED WITH AT LEAST 7% PERCENT HYDRATED LIME, BY DRY SOIL WEIGHT. THE PERCENTAGE OF LIME AS A PERCENT OF SOIL SHOULD BE DETERMINED BY TESTING STABILIZATION IN ACCORDANCE WITH CITY OF HOUSTON STANDARD CONSTRUCTION SPECIFICATIONS SECTION 02336. ALL SELECT FILL SHOULD BE TESTED PRIOR TO USE TO CONFIRM THAT IT MEETS THE SELECT FILL CRITERIA. THE FILL SHOULD BE PLACED IN LOOSE LIFTS NOT EXCEEDING 8 INCHES IN THICKNESS. THE FILL SHOULD BE COMPACTED TO A MINIMUM 95% OF THE ASTM D-698 MAXIMUM DRY UNIT WEIGHT AND AT A MOISTURE CONTENT BETWEEN OPTIMUM AND 3% WET OF OPTIMUM.

## 6" CONCRETE FIRELANE PAVEMENT



DEVELOPMENT COORDINATOR: *[Signature]* DATE: *6/2/17*

SHEET 5 OF 11

REDEEMED CHRISTIAN CHURCH OF GOD  
MERCY HALL  
24814 SADDLESPUR LANE  
KATY, TEXAS 77494

NEDU ENGINEERING SERVICES, INC.  
ENGINEERING, ARCHITECTURE, INTERIOR DESIGN, LANDSCAPE ARCHITECTURE  
24775 SADDLESPUR LANE, SUITE 510  
KATY, TEXAS 77494  
PHONE: (281) 342-4472 FAX: (281) 342-4473  
TSSR NO. P-8029

Multipurpose. Multiple use.  
Made for the duration

Whether it's for construction or industrial sites, steelholes or emergency situations, you'll be ready

Moody series is built to withstand tough jobsite i.e., carrying contaminated water and water containing sand and

up to 1.5 kHz; 42 in diameter. Acoustic  
cell power ratings from 6.6 to 1.1 hp  
(9.5 to 0.8 kW), these portable ultrasonic  
systems are designed for food processing

lightweight material. Ready parts are easy to carry, install and service. Thoma pumps go where other pumps do

Model	8500-4
Product code	2004372
Rel. 09/11 (rev)	0.6/0.5

2007年10月10日

**PRECAST CONCRETE  
BOX STORM SEWER  
BEDDING AND BACKFILL  
FOR DRY STABLE  
TRENCH**

STORM SEWER  
TYPE 'A' GRATE INLET

DEVELOPMENT COORDINATOR / DATE 6/22/17

REDEEMED CHRISTIAN CHURCH  
OF GOD  
MERCY HALL  
24814 SADDLESPUR LANE  
KATY, TEXAS 77494

**NEDU ENGINEERING SERVICES, INC.**  
ENGINEERS, PROJECT MANAGERS, ESTIMATORS, INSPECTORS  
6774 SOUTHWEST LOOP, SUITE 220  
HOUSTON, TEXAS, 77074  
PHONE: (713) 265-1666  
FAX: (713) 268-1487  
TELE No. F-8029

[illegible]



DISCLAIMER: The use of this standard is governed by the Texas Engineering Practice Act. No warranty of any kind is made by the author for the consequences of this standard or for inaccuracies or omissions resulting from its use.

## General Notes

### Curb Ramps

1. Install a curb ramp or blended transition at each pedestrian street crossing.
2. All slopes shall be maximum allowable, lesser slopes that will still drain properly should be used. Adjust curb ramp length or grade of approach sidewalks as directed.
3. The minimum sidewalk width is 5', where the sidewalk is adjacent to the back of curb, crosswalk, sidewalk width is desirable, where a 5' sidewalk cannot be provided due to site constraints, sidewalk width may be reduced to 4' for short distances.
4. Landings shall be 5' x 5' minimum with a maximum 2% slope in any direction.
5. Minimum spacing of the bottom of curb ramps shall be a minimum of 4' x 4' wholly contained within the crosswalk and wholly outside the parallel vehicular travel path.
6. Maximum allowable cross slope on sidewalk and curb ramp surfaces is 2%.
7. Provide flared sides where the pedestrian circulation path crosses the curb ramp. Curb ramps shall be sloped at maximum, measured parallel to the curb, measured within the crosswalk and wholly outside the parallel vehicular travel path, either because the adjacent surface is planted, substantially deteriorated, or otherwise protected.
8. Additional information on curb ramp location, design, light reflective value and texture may be found in the current edition of the Texas Accessibility Standards (TAS) and in the 2010 ADAAG.
9. To serve as a pedestrian refuge area, the median should be a minimum of 6' wide, measured from back of curb. Medians should be designed to provide accessible passage over or through them.
10. Small channelizing islands which do not provide a minimum 5' x 5' landing of the top of curb ramps, shall be cut through level with the surface of the street.
11. Crosswalk dimensions, crosswalk markings and stop bar locations shall be as shown elsewhere in the plans. An intersection where crosswalk markings are not required, curb ramps shall be 11' high with horizontal crosswalks and vertical crosswalks.
12. Handrails are not required on curb ramps. Provide curb ramps wherever on accessible route crosses (overcrosses) a curb.
13. Curb ramps and landings shall be constructed and paid for in accordance with Item 531 "Sidewalks".
14. Place concrete at a minimum depth of 5" for ramps, flares and landings, unless otherwise directed.
15. Provide a smooth transition where the curb ramps connect to the street.
16. Curb shown on sheet 1 within the limits of payment are considered part of the curb ramp for payment, whether it is concrete curb, gutter, or combined curb and gutter.
17. Existing features that comply with TAS may remain in place unless otherwise shown on the plans.

### Detectable Warning Material

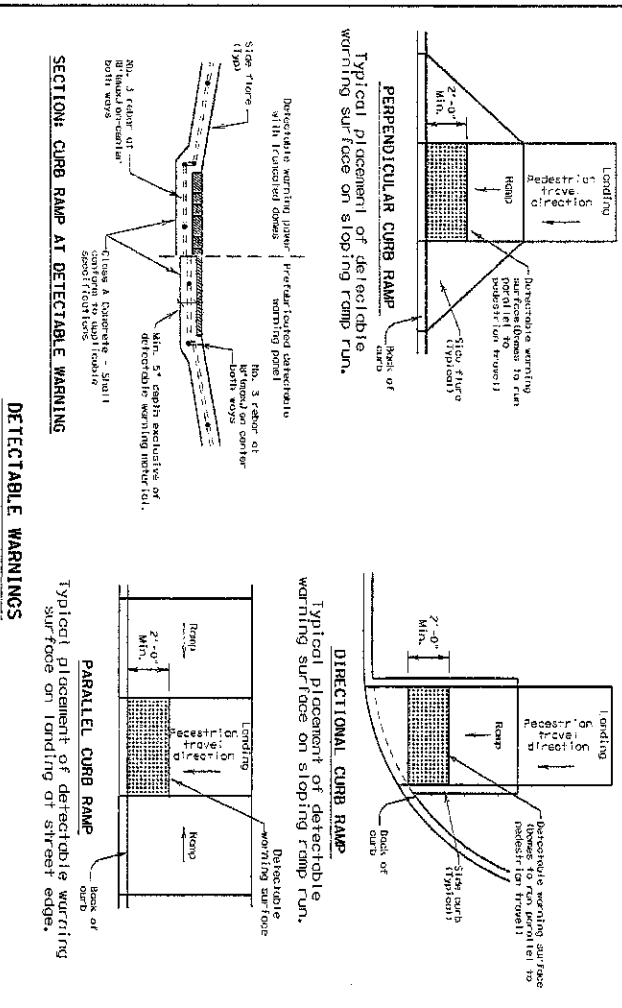
18. Curb ramps must contain a detectable warning surface that consists of raised transverse domes complying with Section 705 of the TAS. The surface must contrast visually with adjoining surfaces, including side flares. Furnish and install on approved cast-in-place dark brown or dark red detectable warning surface material adjacent to uncolored concrete, unless specification of otherwise in the plans.
19. Detectable warning materials must meet Federal Department of Transportation (DOT) F1953 and be listed on the Material List. Install products in accordance with manufacturer's specifications.
20. Detectable warning surfaces must be slip resistant and not allow water to accumulate.
21. Detectable warning surfaces shall be a minimum of 24" in depth in the direction of pedestrian travel. The width of the curb ramp or landing where the pedestrian access route enters the street.
22. Detectable warning surfaces shall be located so that the edge nearest the curb is at the back of curb. Align the rows of domes to be perpendicular to the grade break between the ramp run and the street. Detectable warning surfaces may be curved along the corner radius.
23. Shaded areas on sheet 1 of 4 indicate the approximate location for the detectable warning surface for each curb ramp type.

### Detectable Warning Power

24. Furnish detectable warning power units meeting all requirements of ASTM C-936, C-331, Lay in a two by two unit basket, wedge pattern or as directed.
25. Lay full-size units first followed by closer units consisting of at least 25 percent of a full unit. Cut detectable warning power units using a power saw.

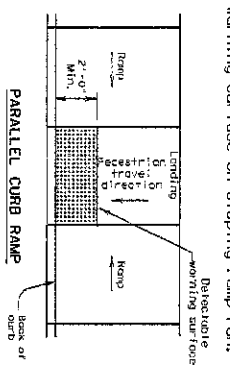
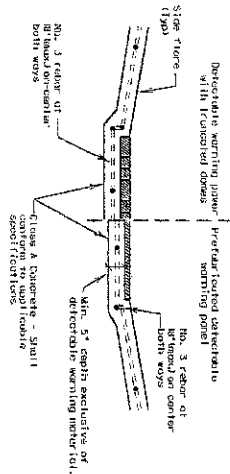
### Sidewalks

26. Provide clear ground space of operable parts, including pedestrian push buttons, operable parts shall be placed within one or more reach ranges specified in TAS 308.
27. Place traffic signal or illumination poles, ground boxes, controller boxes, signs, drop-off facilities and other items so as not to obstruct the pedestrian access route or clear ground space.
28. Street grades and cross slopes shall be as shown elsewhere in the plans.
29. Changes in level greater than 1/4 inch are not permitted.
30. The least possible grade should be used to maintain accessibility. The turning slope of sidewalks and crosswalks within the public right of way may follow the grade of the parallel roadway, where a continuous grade greater than 5% must be provided, handrails may be desirable to improve accessibility. Handrails may also be needed to protect pedestrians from potentially hazardous conditions. If provided, handrails shall comply with TAS 505.
31. Handrail extensions shall not protrude into the usable landing area or into intersecting pedestrian routes.
32. Driveways and turnouts shall be constructed and paid for in accordance with Item "Intersecting Driveways and Turnouts". Sidewalks shall be constructed and paid for in accordance with Item "Sidewalks".
33. Sidewalk details are shown elsewhere in the plans.



### DETECTABLE WARNINGS

#### SECTION: CURB RAMP AT DETECTABLE WARNING



SHEET 2 OF 4

**TEXAS**  
Texas Department of Transportation  
PEDESTRIAN FACILITIES  
CURB RAMPS  
PED-12A

DATE	BY	CHKD	APP'D	REVISED	DATE
10/1/2010	10/1/2010	10/1/2010	10/1/2010	10/1/2010	10/1/2010
10/1/2010	10/1/2010	10/1/2010	10/1/2010	10/1/2010	10/1/2010
10/1/2010	10/1/2010	10/1/2010	10/1/2010	10/1/2010	10/1/2010
10/1/2010	10/1/2010	10/1/2010	10/1/2010	10/1/2010	10/1/2010

DATE	DESCRIPTION / REVISION
10/1/2010	ISSUE FOR CONSTRUCTION AND PERMIT

DRAWING NAME:  
CIVIL DETAILS

DATE	BY	CHKD	APP'D	REVISED	DATE
10/1/2010	10/1/2010	10/1/2010	10/1/2010	10/1/2010	10/1/2010
10/1/2010	10/1/2010	10/1/2010	10/1/2010	10/1/2010	10/1/2010
10/1/2010	10/1/2010	10/1/2010	10/1/2010	10/1/2010	10/1/2010
10/1/2010	10/1/2010	10/1/2010	10/1/2010	10/1/2010	10/1/2010

C7-10

SHEET 8 OF 11

REDEEMED CHRISTIAN CHURCH  
OF GOD  
MERCY HALL  
24814 SADDLESPUR LANE  
KATY, TEXAS 77494

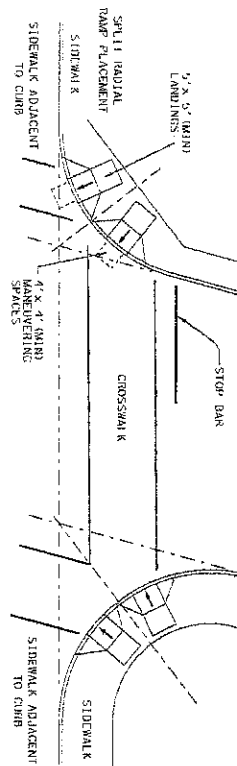


NEDU ENGINEERING SERVICES, INC.  
10000 Katy Freeway, Suite 1000  
Katy, Texas 77494  
Phone: 281-469-1000  
Fax: 281-469-1001  
TELEPHONE NO. 28029

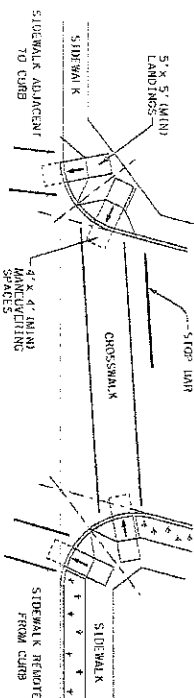




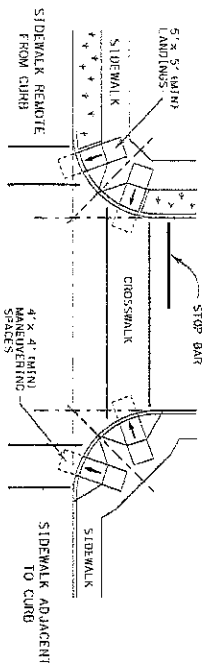
DISCLAIMER:  
The use of this standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conversion of this standard to other formats or for inaccurate results or damages resulting from its use.



SKewed INTERSECTION WITH "LARGE" RADIUS

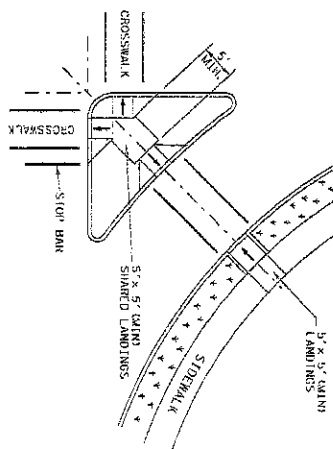


SKewed INTERSECTION WITH "SMALL" RADIUS

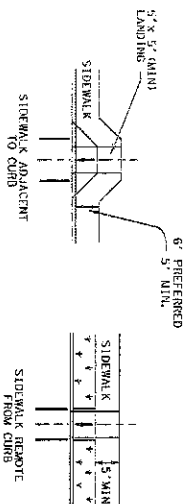


NORMAL INTERSECTION WITH "SMALL" RADIUS

TYPICAL CROSSING LAYOUTS



AT INTERSECTION  
W/FREE RIGHT TURN & ISLAND



MID-BLOCK PLACEMENT  
PERPENDICULAR RAMP

<b>TEXAS</b> Texas Department of Transportation Division Standard	
<b>PEDESTRIAN FACILITIES</b> <b>CURB RAMPS</b>	
<b>PED-12A</b>	
DATE: 10/1/2011 BY: [Signature] CHECKED: [Signature] DATE: 10/1/2011 REVISION: 10/1/2011	SHEET NO. 10 OF 11 PROJECT NO. 1001000000 DATE: 10/1/2011 PHASE: 1001000000

DEVELOPMENT COORDINATOR DATE 6/22/12

REDEEMED CHRISTIAN CHURCH  
OF GOD  
MERCY HALL  
24814 SADDLESPUR LANE  
KATY, TEXAS 77494

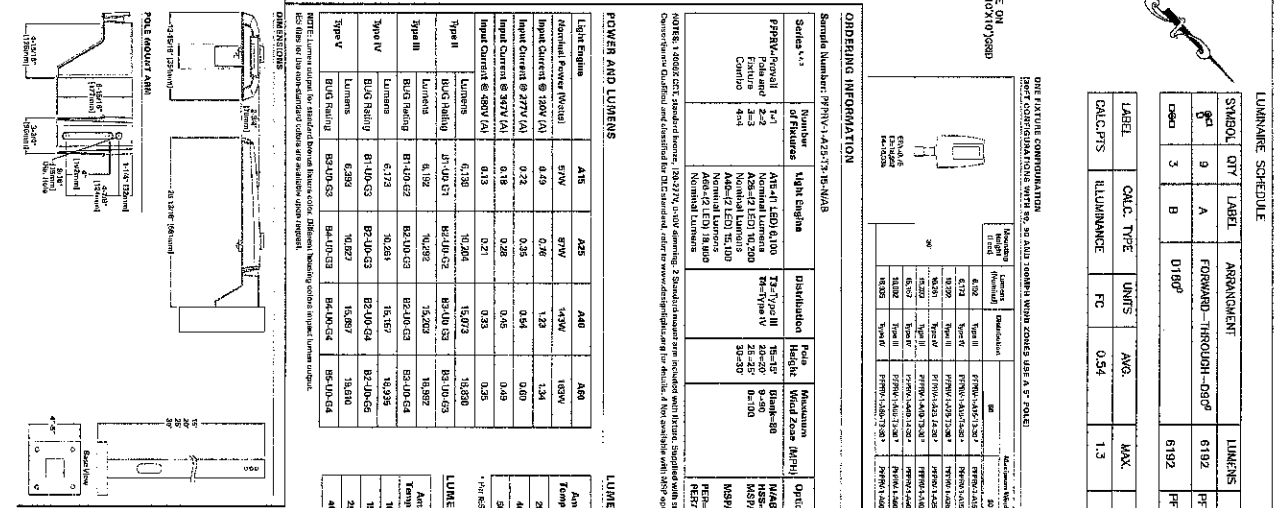


NEDU ENGINEERING SERVICES, INC.  
10101 N. DALLAS STREET, SUITE 100  
DALLAS, TEXAS 75243  
PHONE: (214) 348-1100  
FAX: (214) 348-1101  
TOLL FREE: 1-800-800-8029

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NO.	DATE	DESCRIPTION / REVISION
1	10/1/2011	ISSUE FOR CONSTRUCTION
2		AND PERMIT

CIVIL DETAILS

DRAWING NO. C9-0  
SHEET 10 OF 11

[illegible]

**POWER AND LUMENS**

Light Engine	A15	A25	A40	A60
Nominal Power (Watt)	71W	91W	141W	181W
Input Current @ 230V (A)	0.30	0.36	1.23	1.54
Built-in Current @ 230V (A)	0.22	0.35	0.84	0.97
Input Current @ 94V (A)	0.19	0.28	0.65	0.69

**LUMEN MAINTENANCE**

Ambient Temperature °C	25,000 Hours*	50,000 Hours*	80,000 Hours*	Theoretical Lifetime*
30°C	> 95%	> 95%	> 92%	> 250,000
40°C	> 96%	> 95%	> 91%	> 250,000
50°C	> 95%	> 92%	> 88%	> 250,000

\*Based on IESNA LM-79 test results.

Technical drawing of a POLYMER UNIT. The drawing includes a front view and a side view. The front view shows a rectangular unit with a width of 10.00 and a height of 10.00. The side view shows a rectangular unit with a width of 10.00 and a height of 10.00. The drawing is labeled "POLYMER UNIT" and "10.00".

[illegible]