



MULTIPLE USE AGREEMENT

STATE OF TEXAS §

COUNTY OF TRAVIS §

THIS AGREEMENT made by the State of Texas by and between the Texas Department of Transportation, hereinafter referred to as "State", party of the first part, and The City of Corpus Christi _____, hereinafter called City _____, party of the second part, is to become effective when fully executed by both parties.

WITNESSETH

WHEREAS, on the _____ day of _____, 20____, the governing body for the _____ City _____, entered into Resolution/Ordinance No. _____ hereinafter identified by reference, authorizing the _____ City _____'s participation in this agreement with the State; and

WHEREAS, the _____ City _____ has requested the State to permit the construction, maintenance and operation of a public Two Medium Intensity Approach Lighting Systems _____ on the highway right of way, (General description of area) in the median of State Highway 44 near the Corpus Christi Municipal Airport, between the highway main lanes and the service roads, as shown in attached Exhibit "A", page 1; and Lowering and/or relocation, operation and maintenance of sixteen (16) light poles and one (1) sign as shown in attached Exhibit "A", page 2. shown graphically by the preliminary conceptual site plan in Exhibit "A" and being more specifically described by metes and bounds of Exhibit "B", which are attached and made a part hereof; and

WHEREAS, the State has indicated its willingness to approve the establishment of such facilities and other uses conditioned that the _____ City _____ will enter into agreements with the State for the purpose of determining the respective responsibilities of the _____ City _____ and the State with reference thereto, and conditioned that such uses are in the public interest and will not damage the highway facilities, impair safety, impede maintenance or in any way restrict the operation of the highway facility, all as determined from engineering and traffic investigations conducted by the State.

AGREEMENT

NOW, THEREFORE, in consideration of the premises and of the mutual covenants and agreements of the parties hereto to be by them respectively kept and performed as hereinafter set forth, it is agreed as follows:

1. DESIGN AND CONSTRUCTION

City _____ will prepare or provide for the construction plans for the facility, and will provide for the construction work as required by said plans at no cost to the State. Said plans shall include the design of the access control, necessary horizontal and vertical clearances for highway structures, adequate landscape treatment, adequate detail to ensure compliance with applicable structural design standards, sufficient traffic control provisions, and general layout. They shall also delineate and define the construction responsibilities of both parties hereto. Completed plans will be submitted to State for review and approval and when approved shall be attached to the agreement and made a part thereof in all respects. Construction shall not commence until plans have been approved by the State. Any future revisions or additions shall be made after prior written approval of the State. Any sidewalks, curb ramps and other pedestrian elements to be constructed, either on site or off site, by the _____ City _____ shall be in accordance with the requirements of Title II of the Americans With Disabilities Act (ADA) and with the Texas Accessibility Standards (TAS). Elements constructed by the _____ City _____ and found not to comply with ADA or TAS shall be corrected at the entire expense of the _____ City _____.

2. INSPECTION

Ingress and egress shall be allowed at all times to such facility for Federal Highway Administration personnel and State Forces and equipment when highway maintenance operations are necessary, and for inspection purposes; and upon request, all parking or other activities for periods required for such operations will be prohibited.

3. PARKING REGULATIONS

Parking regulations shall be established limiting parking to single unit motor vehicles of size and capacity no greater than prescribed for 1¹/₂ ton trucks, such vehicles to conform in size and use to governing laws. Parking shall be permitted only in marked spaces.

Parking shall be prohibited when a security threat, as determined by TxDOT, exists.

4. PROHIBITION/SIGNS

Regulations shall be established prohibiting the parking of vehicles transporting flammable or explosive loads and prohibiting use of the area in any manner for peddling, advertising or other purposes not in keeping with the objective of a public facility. The erection of signs other than those required for proper use of the area will be prohibited. All signs shall be approved by the State prior to the actual erection.

5. RESPONSIBILITIES

Maintenance and operation of the facility shall be entirely the responsibility of the City _____ . Such responsibility shall not be transferred, assigned or conveyed to a third party without the advanced written approval of the State. Further, such responsibility shall include picking up trash, mowing and otherwise keeping the facility in a clean and sanitary condition, and surveillance by police patrol to eliminate the possible creation of a nuisance or hazard to the public. Hazardous or unreasonably objectionable smoke, fumes, vapor or odors shall not be permitted to rise above the grade line of the highway, nor shall the facility subject the highway to hazardous or unreasonably objectionable dripping, droppings or discharge of any kind, including rain or snow.

6. FEES

Any fees levied for use of the facilities in the area shall be nominal and no more than are sufficient to defray the cost of construction, maintenance and operations thereof, and shall be subject to State approval.

A. Retention Period. The _____ City _____ shall maintain all books, documents, papers, accounting records and other evidence pertaining to fees collected and costs (hereinafter called the Records). The City shall make the records available during the term of the Agreement and for four years from the date the Agreement is terminated, until completion of all audits, or until pending litigation has been completely and fully resolved, whichever occurs last.

B. Availability. The State or any of its duly authorized representatives, the Federal Highway Administration, the United States Department of Transportation, Office of Inspector General, and the Comptroller General shall have access to the _____ City _____ 's records that are directly pertinent to this Agreement for the purpose of making audits and examinations.

7. TERMINATION UPON NOTICE

This provision is expressly made subject to the rights herein granted to both parties to terminate this agreement upon notice, and upon the exercise of any such right by either party, all obligations herein to make improvements to said facility shall immediately cease and terminate.

8. MODIFICATION/TERMINATION OF AGREEMENT

If in the sole judgment of the State it is found at any future time that traffic conditions have so changed that the existence or use of the facility is impeding maintenance, damaging the highway facility, impairing safety or that the facility is not being properly operated, that it constitutes a nuisance, is abandoned, or if for any other reason it is the State's judgment that such facility is not in the public interest, this agreement under which the facility was constructed may be: (1) modified if corrective measures acceptable to both parties can be applied to eliminate the objectionable features of the facility; or (2) terminated and the use of the area as proposed herein discontinued.

9. PROHIBITION OF STORAGE OF FLAMMABLE MATERIALS

All structures located or constructed within the area covered by the agreement shall be fire resistant. The storage of flammable, explosive or hazardous materials is prohibited. Operations deemed to be a potential fire hazard shall be subject to regulation by the State.

10. RESTORATION OF AREA

The _____ City _____ shall provide written notification to the State that such facility will be discontinued for the purpose defined herein. The _____ City _____ shall, within thirty (30) days from the date of said notification, clear the area of all facilities that were its construction responsibility under this agreement and restore the area to a condition satisfactory to the State.

11. PREVIOUS AGREEMENTS

It is understood that this agreement in no way modifies or supersedes the terms and provisions of any existing agreements between the parties hereto.

12. INDEMNIFICATION

Each party acknowledges that it is not an agent, servant, or employee of the other party. Each party is responsible for its own acts and deeds and for those of its agents, servants, or employees.

Neither party hereto intends to waive, relinquish, limit or condition its right to avoid any such liability by claiming its governmental immunity.

When notified by the State to do so, the other party hereto shall within thirty (30) days from receipt of the State's written notification pay the State for the full cost of repairing any damages to the highway facility which may result from its construction, maintenance or operation of the facility, and shall promptly reimburse the State for costs of construction and/or repair work made necessary by reason of such damages.

Nothing in this agreement shall be construed as creating any liability in favor of any third party against the State and the _____ City _____. Additionally, this agreement shall not ever be construed as relieving any third party from any liability against the State and the _____ City _____ shall become fully subrogated to the State and shall be entitled to maintain any action over and against the third party which may be liable for having caused the _____ City _____ to pay or disburse any sum of money hereunder.

13. HOLD HARMLESS

The _____ City _____ shall indemnify and save harmless the State and its officers and employees from all claims and liability due to its materials or activities of itself, its agents, or employees, performed under this agreement and that are caused by or result from error, omission, or negligent act of the party or of any person employed by the party. The _____ City _____ shall also indemnify and save harmless the State from any and all expense, including but not limited to attorney fees that may be incurred by the State in litigation or otherwise resisting the claim or liabilities that may be imposed on the State as a result of such activities by the _____ City _____, its agents, or employees authorized under this agreement. The _____ City _____ further agrees to indemnify and save harmless the State from and against all claims, demands, and causes of action of every kind and character brought by any employee of the party against the State due to personal injuries and/or death to such employee resulting from any alleged negligent act by either commission or omission on the part of the _____ City _____. The indemnification of the State shall extend for a period of three (3) years beyond the date of termination of this agreement.

14. INSURANCE

The _____ City _____, shall provide necessary safeguards to protect the public on State maintained highways including adequate insurance for payment of any damages which might result during the construction, maintenance and operation of the facility occupying such airspace or thereafter, and to save the State harmless from damages, to the extent of said insurance coverage and insofar as it can legally do so. Prior to beginning work on the State's right of way, the _____ City _____'s construction contractor shall submit to the State a completed insurance form (TxDOT Form No. 1560) and shall maintain the required coverage during the construction of the facility.

15. USE OF RIGHT OF WAY

It is understood that the State by execution of this agreement does not impair or relinquish the State's right to use such land for highway purposes when it is required for the construction or re-construction of the traffic facility for which it was acquired, nor shall use of the land under such agreement ever be construed as abandonment by the State of such land acquired for highway purposes, and the State does not purport to grant any interest in the land described herein but merely consents to such use to the extent its authority and title permits.

16. ADDITIONAL CONSENT REQUIRED

The State asserts only that it has sufficient title for highway purposes. The City _____ shall be responsible for obtaining such additional consent, permits or agreement as may be necessary due to this agreement. This includes, but is not limited to, appropriate permits and clearances for environmental, ADA and public utilities.

17. FHWA ADDITIONAL REQUIREMENTS

If the Facility is located on the Federal-Aid Highway System, "ATTACHMENT A", which states additional requirements as set forth in the Federal Highway Administration's Title 23, Code of Federal Regulations, § 710, shall be attached to and become a part of this agreement.

18. CIVIL RIGHTS ASSURANCES

The _____ City _____, for itself, its personal representatives, successors and interests and assigns, as part of the consideration hereof, does hereby covenant and agree as a covenant running with the land that: (1) no persons, on the grounds of race, color, sex, age, national origin, religion or disabling condition, shall be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination in the use of said facility; (2) that in the construction of any improvements on, over or under such land and the furnishing of services thereon, no person on the ground of race, color, sex, age, national origin, religion or disabling condition, shall be excluded from participation in, denied the benefits of, or otherwise be subjected to discrimination; (3) that the City _____ shall use the premises in compliance with all other requirements imposed by or pursuant to Title 49, Code of Federal Regulations, Department of Transportation, Subtitle A, Office of the Secretary, Part 21, Non-discrimination in Federally-Assisted programs of the Department of Transportation - Effectuation of Title VI of the Civil Rights Act of 1964, and as said Regulations may be amended.

That if in the event of any breach of the above non-discrimination covenants, the State shall have the right to terminate the agreement and reenter and repossess said land and the facilities thereon, and hold the same as if said agreement had never been made or issued.

19. AMENDMENTS

Any changes in the time frame, character or responsibilities of the parties hereto shall be enacted by a written amendment executed by both parties hereto.

20. LEGAL CONSTRUCTION

In case one or more of the provisions contained in this agreement shall for any reason be held invalid, illegal or unenforceable in any respect, such invalidity, illegality or unenforceability shall not affect any provision hereof and this agreement shall be construed as if such invalid, illegal, or unenforceable provision had never been contained in this agreement.

21. AUDIT

The State may conduct an audit or investigation of any aspect of this agreement. The City _____ must provide the State with access to any information the State considers relevant to the investigation or audit. The audit can include, but is not limited to, any contract for construction or maintenance of any facility or structure authorized by this agreement or any contract to provide a service to the _____ City _____ if that service is authorized by this agreement.

22. AUTHORITY OF STATE AUDITOR

The state auditor may conduct an audit or investigation of any entity receiving funds from the state directly under the contract or indirectly through a subcontract under the contract. Acceptance of funds directly under the contract or indirectly through a subcontract under this contract acts as acceptance of the authority of the state auditor, under the direction of the legislative audit committee, to conduct an audit or investigation in connection with those funds. An entity that is the subject of an audit or investigation must provide the state auditor with access to any information the state auditor considers relevant to the investigation or audit.

23. COMPLIANCE OF THE LAW

The City _____ shall comply with all federal, state, and local law, statutes, ordinances, rules and regulations and with the orders and decrees of any courts or administrative bodies or tribunals in any manner affecting the performance of this agreement.

24. NOTICES

All notices required under this agreement shall be mailed or hand delivered to the following respective addresses:

STATE
(Mailing Address)
Texas Department of Transportation
Maintenance Division
125 East 11th Street
Austin, Texas 78701-2483

(Name of other party)
(Mailing Address)
City of Corpus Christi
Engineering Services
1201 Leopard Street
Corpus Christi, TX 78401

25. WARRANTS

The signatories to this agreement warrant that each has the authority to enter into this agreement on behalf of the party represented.

List of Attached Exhibits:

- Exhibit A - General Layout
- Exhibit B - Metes and Bounds Description
- Exhibit C - Approved Construction Plans
- Exhibit D - Certificate of Insurance (TxDOT Form 1560)
- Exhibit E - Attachment A (FHWA Additional Requirements)

IN WITNESS WHEREOF, the parties have hereunto affixed their signature, the

City _____ on the _____ day of _____,
20____, and the State on the _____ day of _____, 20____.

STATE OF TEXAS

City of Corpus Christi
(Name of other party)

By: _____
Title

Printed Name

Date

Executed and approved for the Texas Transportation Commission for the purpose and effect of activating and/or carrying out the orders, and established policies or work programs heretofore approved and authorized by the Texas Transportation Commission.

By: _____
Director, Maintenance Division

Toribio Garza, Jr., P.E.
Printed Name

Date

APPROVAL RECOMMENDED:

District Engineer

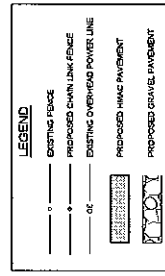
Lonnie J. Gregorcyk, P.E.
Printed Name

Date

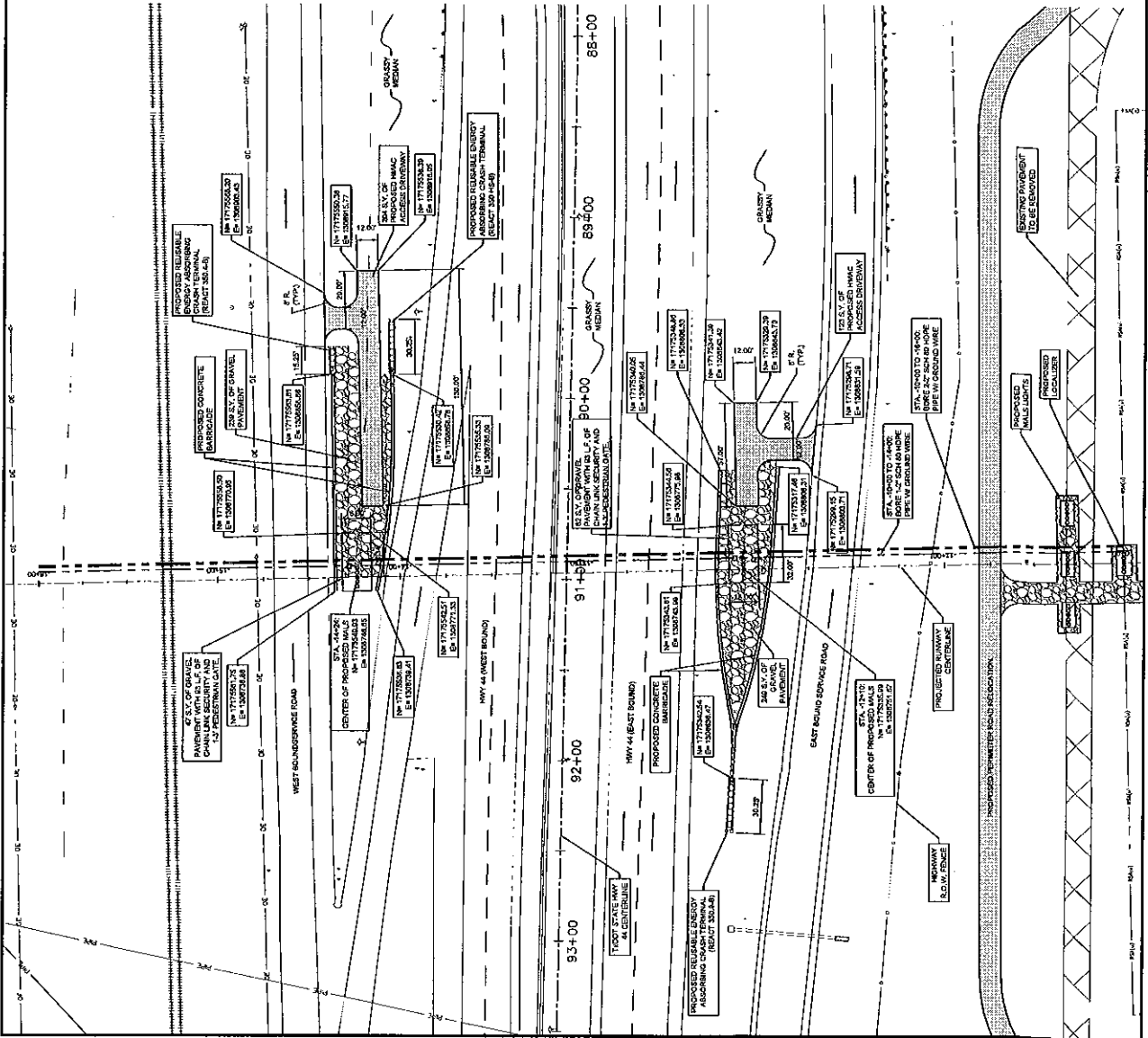
PERSON NO.	DATE	BY



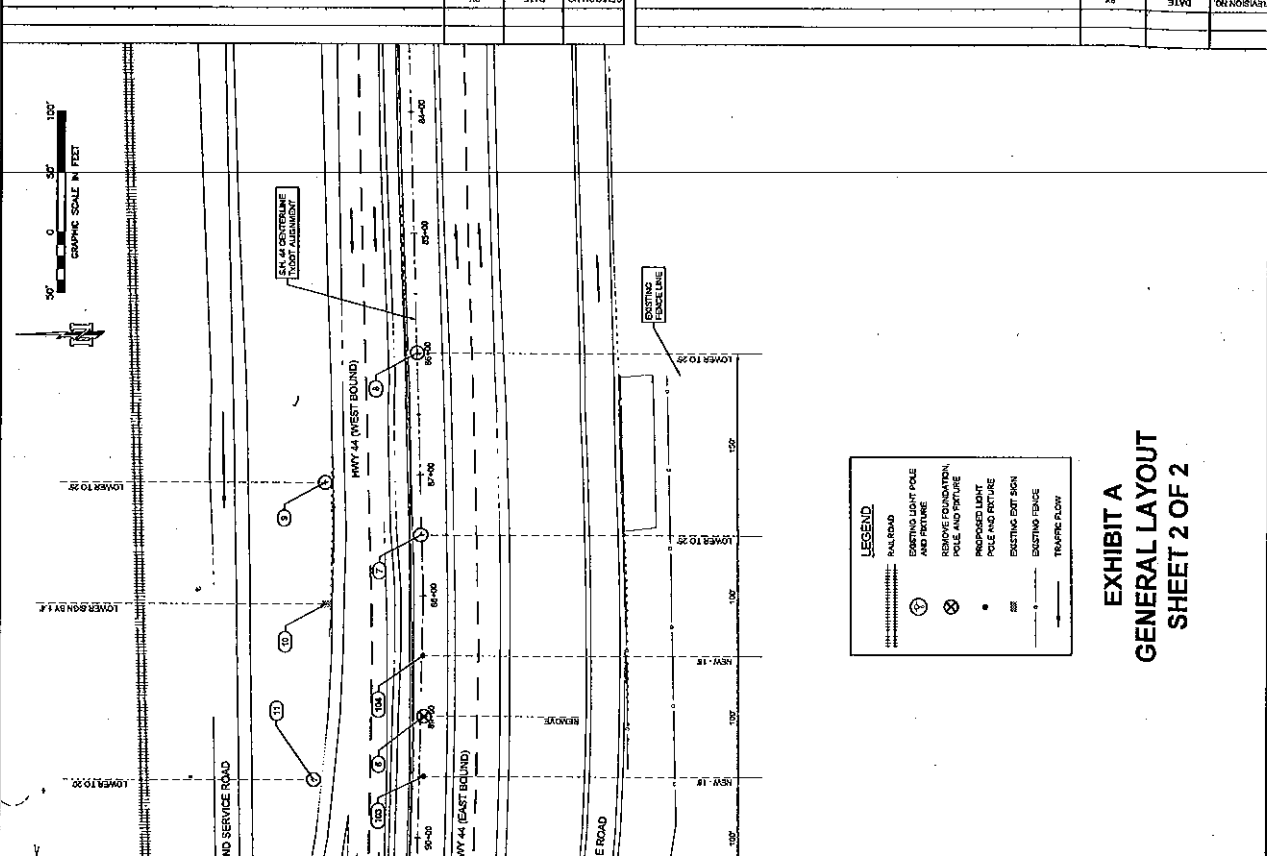
- NOTES:**
1. REFER TO SHEETS 4-17 FOR CONCRETE BARRIER DETAILS.
 2. REFER TO SHEETS 4-18 FOR PROPOSED 24\"/>



**EXHIBIT A
GENERAL LAYOUT
SHEET 1 OF 2**



2020P
 17700 N. LOOP WEST, SUITE 1000
 DALLAS, TEXAS 75244
 TEL: 972.382.7200
 FAX: 972.382.7201
 WWW.KSAENGINEERS.COM



LEGEND

- RAILROAD
- EXISTING LIGHT POLE AND FIXTURE
- REMOVE FOUNDATION, POLE AND FIXTURE
- PROPOSED LIGHT POLE AND FIXTURE
- EXISTING EXIST SIGN
- EXISTING FENCE
- TEMPORARY FLOW

**EXHIBIT A
 GENERAL LAYOUT
 SHEET 2 OF 2**

LIGHT POLE #	SH 44 STA.	OFFSET	DESCRIPTION	FIXTURE HEIGHT	MAX. FIXTURE HEIGHT	MITIGATION	NEW HEIGHT
1	80+44.24	5.0' L.	EXIST. LP	30.0'	30.0'	REPLACE POLE & FIXTURE ON EXIST. FOUNDATION	25'
2	80+44.24	5.0' R.	EXIST. LP	30.0'	30.0'	REPLACE POLE & FIXTURE ON EXIST. FOUNDATION	25'
3	80+44.27	5.0' R.	EXIST. LP	30.0'	30.0'	REPLACE POLE & FIXTURE ON EXIST. FOUNDATION	25'
4	81+00.25	7.1' L.	EXIST. LP	30.0'	30.0'	REMOVE AND REPLACE WITH 2 FT POLES & FIXTURES (TYP. 100)	15'
5	80+48.34	4.62' L.	EXIST. LP	30.1'	30.1'	REPLACE POLE & FIXTURE ON EXIST. FOUNDATION	15'
6	80+48.34	2.71' L.	EXIST. LP	30.5'	30.5'	REPLACE POLE & FIXTURE ON EXIST. FOUNDATION	25'
7	80+48.34	7.71' R.	EXIST. LP	30.2'	30.2'	REPLACE POLE & FIXTURE ON EXIST. FOUNDATION	25'
8	80+48.15	20.1' L.	EXIST. LP	30.1'	30.1'	REPLACE POLE & FIXTURE ON EXIST. FOUNDATION	25'
9	80+48.58	76.8' R.	EXIST. LP	42.4'	28.5'	REPLACE POLE & FIXTURE ON EXIST. FOUNDATION	25'
10	80+48.77	76.2' R.	EXIST. SIGN	31.2'	30.2'	LOWER SIGN BY 1.0'	22'
11	80+54.85	16.8' R.	EXIST. P.T.	30.9'	28.5'	REPLACE POLE & FIXTURE ON EXIST. FOUNDATION	25'
12	80+48.60	81.2' R.	EXIST. LP	30.9'	28.5'	REPLACE POLE & FIXTURE ON EXIST. FOUNDATION	25'
13	80+48.00	75.8' R.	EXIST. LP	30.9'	27.1'	REPLACE POLE & FIXTURE ON EXIST. FOUNDATION	15'
101	82+49	0	PROPOSED LP	0	0	NEW FIXTURE	15'
102	81+49	2' L.	PROPOSED LP	0	0	NEW FIXTURE	15'
103	80+49	5.4' L.	PROPOSED LP	0	0	NEW FIXTURE	15'
104	80+49	1' L.	PROPOSED LP	0	0	NEW FIXTURE	15'

EXHIBIT "B"

LEGAL METES AND BOUNDS DESCRIPTION

Description of two 0.0103 acre tracts of land out of the State Highway 44 right-of-way to be fenced around approach lights to serve the City of Corpus Christi and the Corpus Christi International Airport.

TRACT ONE:

Beginning at a point in the grassy area between the westbound lanes of State Highway 44 and the westbound service road, said point being located 124.79 feet right of State Highway 44 centerline Station 90+77.59, said point being located at Texas Plane Coordinate System (South Zone) N 17,175,559.02, E 1,308,771.44, the northeast corner hereof;

THENCE: South 01° 20' 14.07" East for 15.00 feet to a point for corner, said point being located at Texas Plane Coordinate System (South Zone) N 17,175,542.02, E 1,308,771.84, the southeast corner hereof;

THENCE: South 88° 39' 15.93" West for 30.00 feet to a point for corner, the southwest corner hereof;

THENCE: North 01° 20' 14.07" West for 15.00 feet to a point for corner, the northwest corner hereof;

THENCE: North 88° 39' 15.93" East for 30.00 feet to the point of beginning and containing 0.0103 acres, more or less.

TRACT TWO:

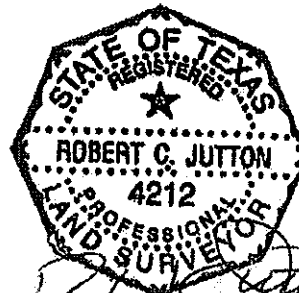
Beginning at a point in the grassy area between the eastbound lanes of State Highway 44 and the eastbound service road, said point being located 90.44 feet left of State Highway 44 centerline Station 90+99.88, said point being located at Texas Plane Coordinate System (South Zone) N 17,175,344.30, E 1,308,743.48, the northwest corner hereof;

THENCE: North 88° 39' 15.93" East for 30.00 feet to a point for corner, said point being located at Texas Plane Coordinate System (South Zone) N 17,175,345.08, E 1,308,776.47, the northeast corner hereof;

THENCE: South 01° 20' 14.07" East for 15.00 feet to a point for corner, the southeast corner hereof;

THENCE: South 88° 39' 15.93" West for 30.00 feet to a point for corner, the southwest corner hereof;

THENCE: North 01° 20' 14.07" West for 15.00 feet to the point of beginning and containing 0.0103 acres, more or less.



Robert C. Jutton
04-23-2012

EXHIBIT C

APPROVED CONSTRUCTION PLANS

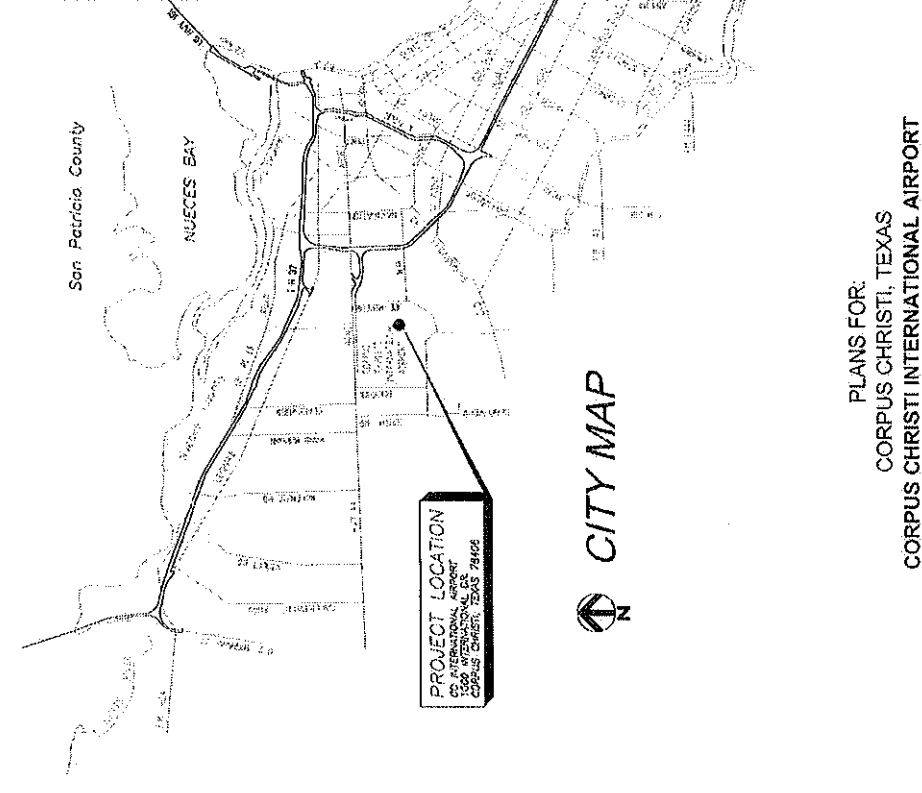
APPROVAL RECOMMENDED:

District Engineer

Printed Name

Date

CALL BEFORE YOU DIG!
 48 HOURS ADVANCE NOTICE
 DIG TESS
 1-800-344-8377
 Verizon Dig Alert At
 1-888-493-8279
**THE LONE STAR
 NOTIFICATION COMPANY**
 AT 1-800-665-8344



PROJECT LOCATION
 6500 INTERNATIONAL AIRPORT
 CORPUS CHRISTI, TEXAS 78406

CITY MAP

PLANS FOR:
 CORPUS CHRISTI, TEXAS
 CORPUS CHRISTI INTERNATIONAL AIRPORT
 RUNWAY 17-35 EXTENSION/DISPLACEMENT
 AND CONNECTING TAXIWAY PROJECT

CITY PROJECT No. E11046
 FAA GRANT No. 3-48-0051-0047-2011

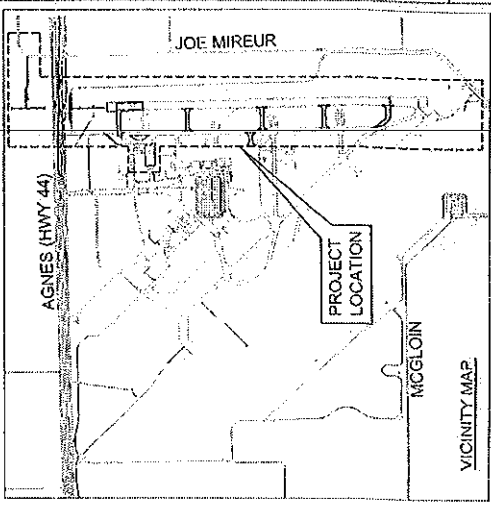
PREPARED BY:



APPROVED: _____ Date: _____
 Director of Engineering Services

Sheet List Table

NO.	DESCRIPTION
1	GENERAL NOTES
2	EXISTING CONDITIONS
3	PROPOSED CONDITIONS
4	UTILITY LOCATIONS
5	PROPOSED PAVEMENT
6	PROPOSED CONCRETE
7	PROPOSED ASPHALT
8	PROPOSED GRAVEL
9	PROPOSED SAND
10	PROPOSED FILL
11	PROPOSED EROSION CONTROL
12	PROPOSED DRAINAGE
13	PROPOSED LIGHTING
14	PROPOSED SIGNAGE
15	PROPOSED FENCE
16	PROPOSED SECURITY
17	PROPOSED SAFETY
18	PROPOSED MAINTENANCE
19	PROPOSED INSPECTION
20	PROPOSED RECORDING
21	PROPOSED AS-BUILT
22	PROPOSED FINAL
23	PROPOSED CLOSURE
24	PROPOSED RE-OPENING
25	PROPOSED RESTORATION
26	PROPOSED MONITORING
27	PROPOSED REPORTING
28	PROPOSED ARCHIVING
29	PROPOSED ACCESS
30	PROPOSED EGRESS
31	PROPOSED ENTRY
32	PROPOSED EXIT
33	PROPOSED ENTRANCE
34	PROPOSED EXITWAY
35	PROPOSED ESCAPE
36	PROPOSED EVACUATION
37	PROPOSED ASSEMBLY
38	PROPOSED GATHERING
39	PROPOSED MEETING
40	PROPOSED CONFERENCE
41	PROPOSED SEMINAR
42	PROPOSED SYMPOSIUM
43	PROPOSED CONGRESS
44	PROPOSED CONVENTION
45	PROPOSED EXHIBITION
46	PROPOSED CONFERENCE
47	PROPOSED SEMINAR
48	PROPOSED SYMPOSIUM
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96	PROPOSED SYMPOSIUM
97	PROPOSED CONGRESS
98	PROPOSED CONVENTION
99	PROPOSED EXHIBITION
100	PROPOSED CONFERENCE



Department of Engineering Services
CITY OF CORPUS CHRISTI
 TEXAS

KSA ENGINEERS
 8875 Symmetry Dr., Jerseyville, Texas 75070
 1-972-348-2296 1-972-246-0750
 www.ksaeng.com

CORPUS CHRISTI INTERNATIONAL AIRPORT
 AND CONNECTING TAXIWAY PROJECT
 COVER SHEET AND SHEET INDEX

SHEET 1 of 85
 REVISIONS: AP-138
 CONTRACT: E11046

CORPUS CHRISTI INTERNATIONAL AIRPORT
 RUNWAY 17-35 EXTENSION/DISPLACEMENT
 AND CONNECTING TAXIWAY PROJECT

MALS STATION BARRICADE LAYOUT

CITY OF CORPUS CHRISTI
 Department of Engineering Services

KSA
 ENGINEERS

The documents prepared by KSA Engineers, Inc. are the property of KSA Engineers, Inc. and shall not be used for any other project without the written consent of KSA Engineers, Inc.

DATE: 10/15/13
 DRAWING NO: 17-35-01
 SHEET NO: 45 OF 85

SHEET 45 OF 85
 RECORD NUMBER: AP-138
 CITY PROJECT: E11046

REVISION	DATE	BY	DESCRIPTION

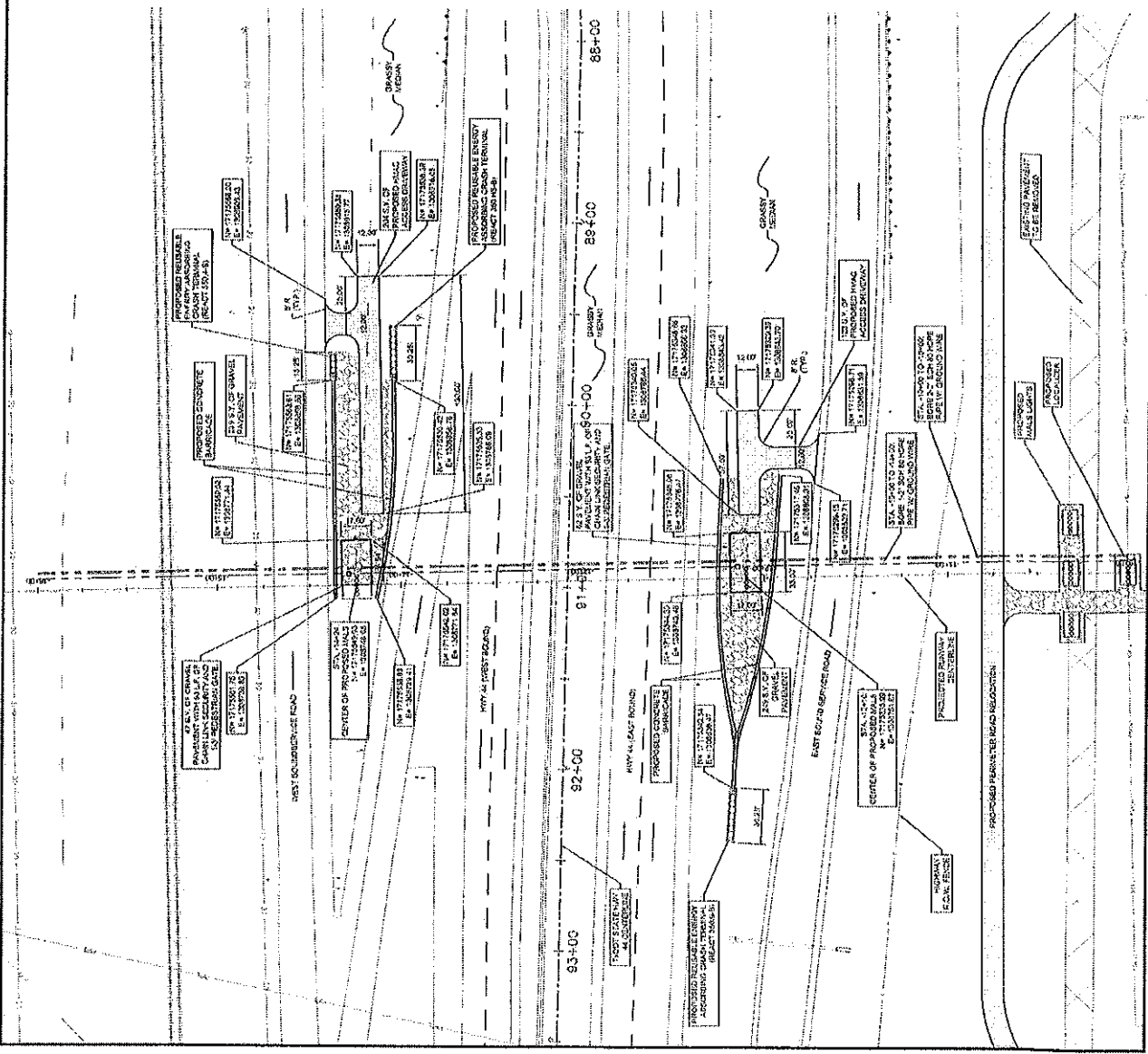


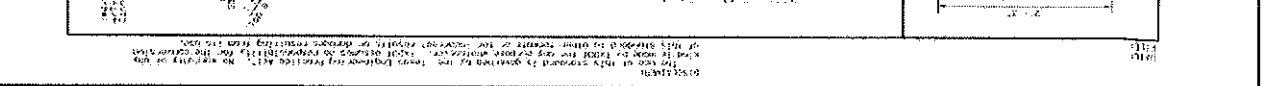
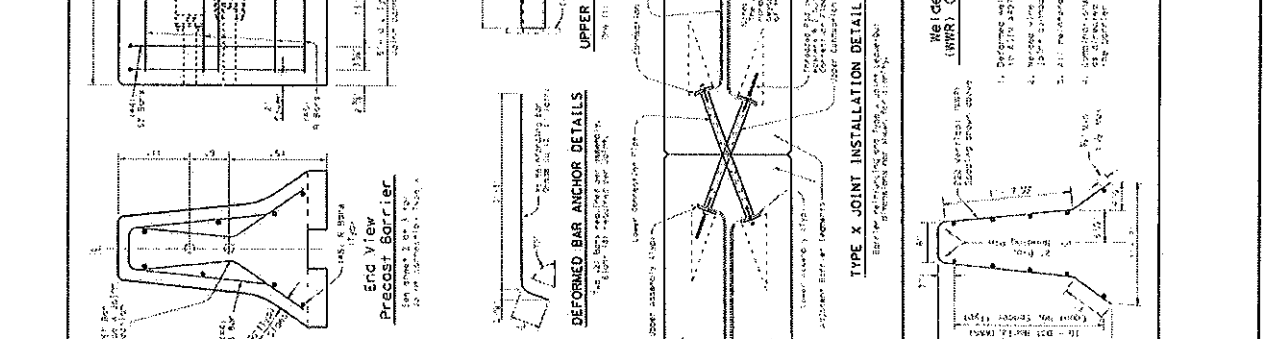
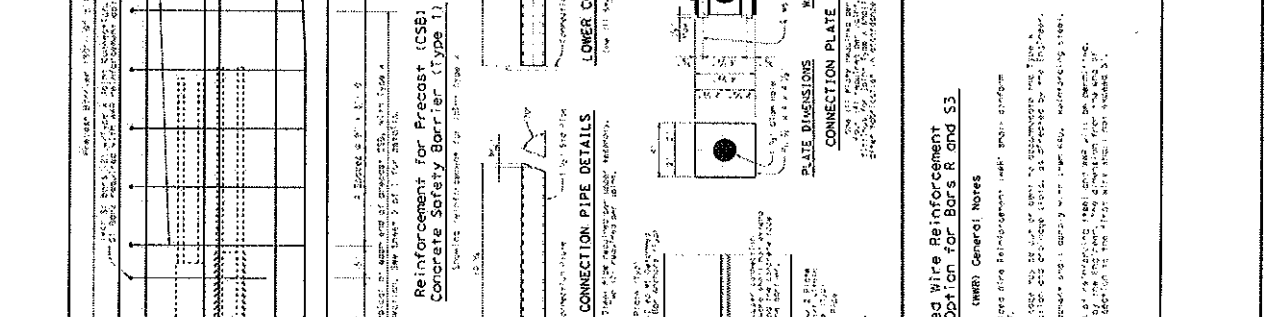
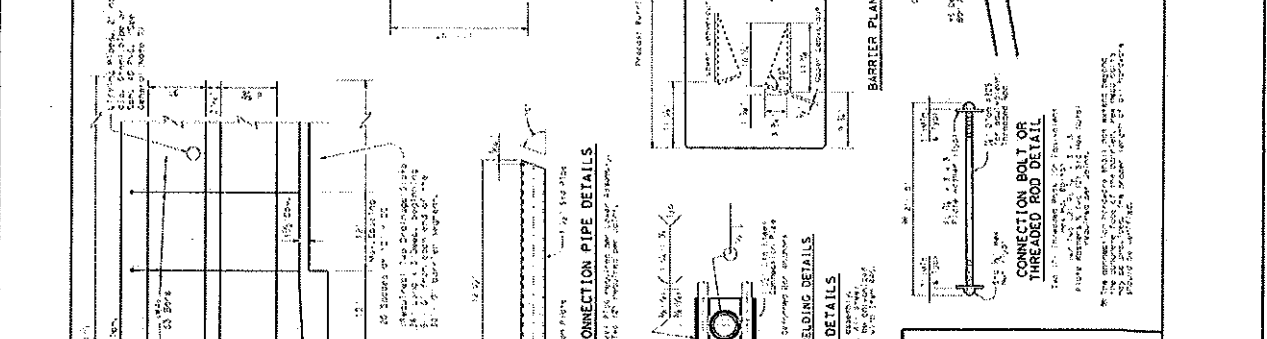
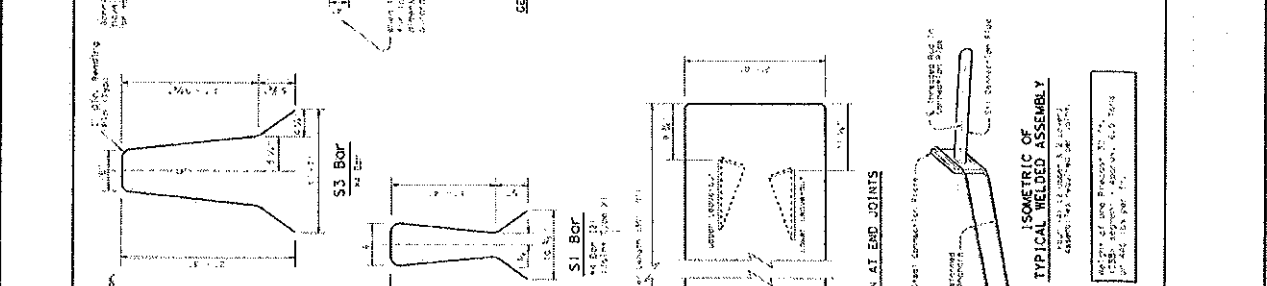
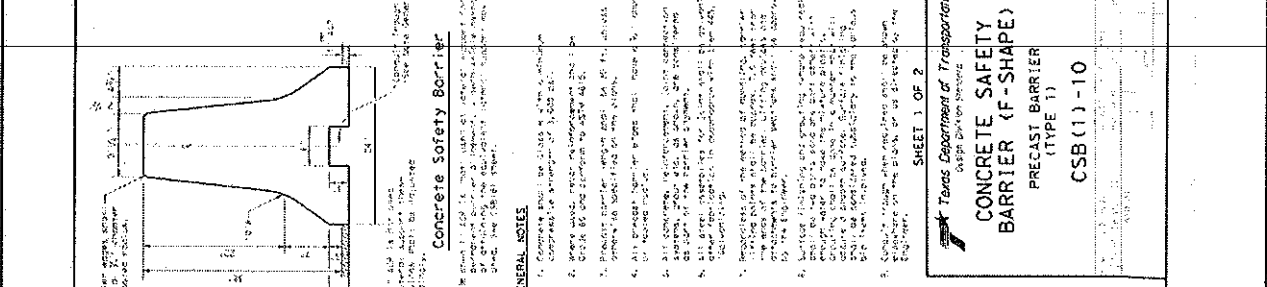
GRAPHIC SCALE IN FEET
 0 25 50

- NOTES:**
1. REFER TO SHEETS 44-T FOR DIMENSIONS AND TO SHEETS 44-T FOR PROPOSED BARRICADE DETAILS.
 2. REFER TO SHEETS 44-T FOR PROPOSED BARRICADE DETAILS AND TYPICAL DRIVEWAY SECTION.
 3. REFER TO SHEET 44-T FOR PROPOSED BARRICADE DETAILS AND TYPICAL DRIVEWAY SECTION.
 4. REFER TO SHEET 44-T FOR PROPOSED BARRICADE DETAILS.

LEGEND

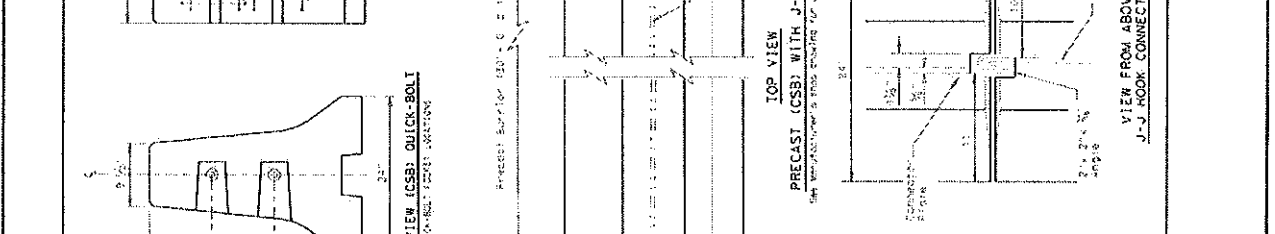
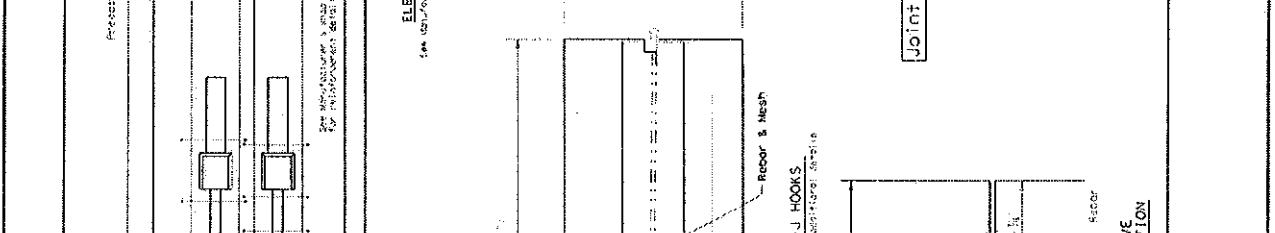
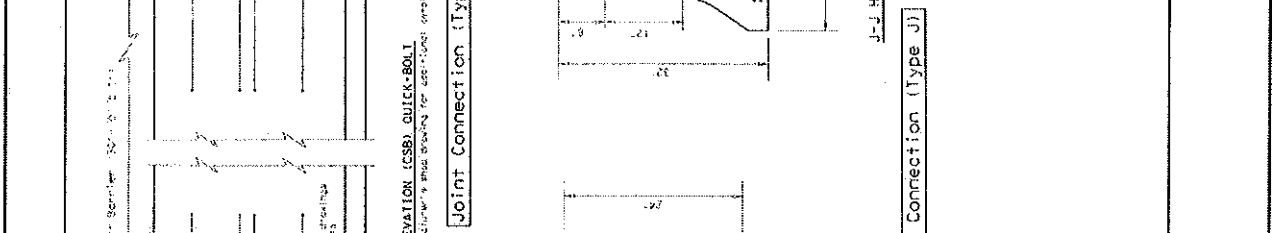
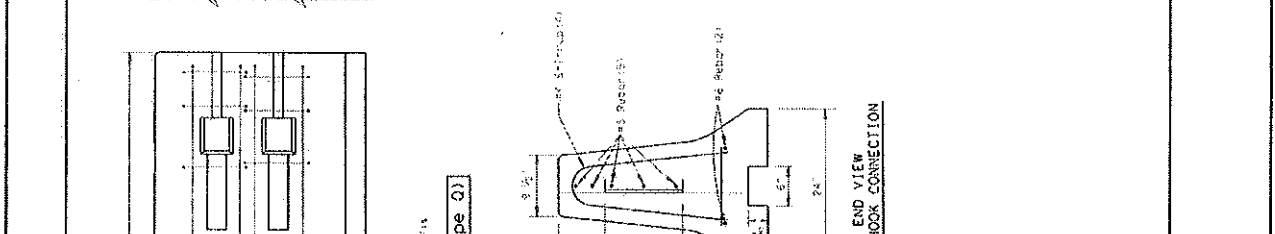
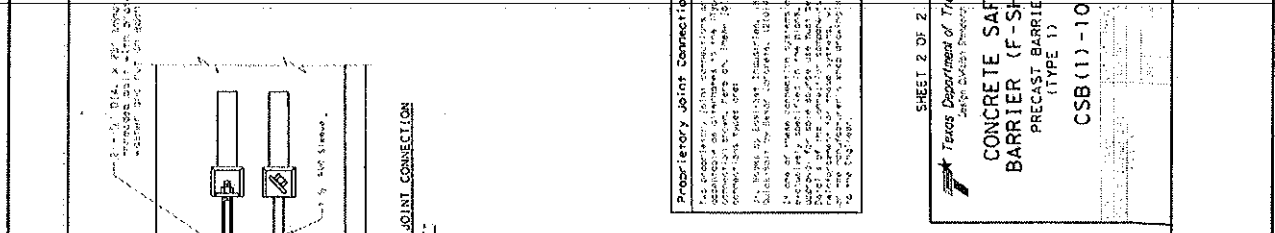
- EXISTING FENCE
- PROPOSED DRIVEWAY FENCE
- EXISTING DRIVEWAY FENCE
- PROPOSED TRAIL PAVEMENT
- PROPOSED DRIVEWAY PAVEMENT





GENERAL NOTES
 1. All concrete reinforcement shall be in accordance with the provisions of ACI 308.3R-03, except as noted otherwise.
 2. All concrete shall be in accordance with the provisions of ACI 308.3R-03, except as noted otherwise.
 3. All steel reinforcement shall be in accordance with the provisions of ACI 308.3R-03, except as noted otherwise.
 4. All steel reinforcement shall be in accordance with the provisions of ACI 308.3R-03, except as noted otherwise.
 5. All steel reinforcement shall be in accordance with the provisions of ACI 308.3R-03, except as noted otherwise.
 6. All steel reinforcement shall be in accordance with the provisions of ACI 308.3R-03, except as noted otherwise.
 7. All steel reinforcement shall be in accordance with the provisions of ACI 308.3R-03, except as noted otherwise.
 8. All steel reinforcement shall be in accordance with the provisions of ACI 308.3R-03, except as noted otherwise.
 9. All steel reinforcement shall be in accordance with the provisions of ACI 308.3R-03, except as noted otherwise.
 10. All steel reinforcement shall be in accordance with the provisions of ACI 308.3R-03, except as noted otherwise.

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PROPRIETARY JOINT CONNECTIONS (CSB)
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GENERAL NOTES

- For additional information, consult Energy Absorption System File # 151, number B, 31st Street, Houston, TX 77001, 11663-223-0174.
- The use of the REACT 350 shall be in accordance with the specifications and details provided in the Energy Absorption System File # 151, number B, 31st Street, Houston, TX 77001, 11663-223-0174.
- All steel components shall be hot-dipped galvanized unless otherwise specified. Minimum coating thickness shall be 0.015 inches (0.38 mm) for steel.
- The REACT system shall be installed in accordance with the specifications and details provided in the Energy Absorption System File # 151, number B, 31st Street, Houston, TX 77001, 11663-223-0174.
- The REACT system shall be installed in accordance with the specifications and details provided in the Energy Absorption System File # 151, number B, 31st Street, Houston, TX 77001, 11663-223-0174.

DESIGN DATA

REACT	REACT	REACT	REACT	REACT	REACT	REACT
350-15	350-15	350-15	350-15	350-15	350-15	350-15
SECTION	45 MPH	45 MPH	45 MPH	45 MPH	45 MPH	45 MPH
DESIGN	18'-0"	18'-0"	18'-0"	18'-0"	18'-0"	18'-0"
LENGTH	18'-0"	18'-0"	18'-0"	18'-0"	18'-0"	18'-0"
WEIGHT	2450 lbs	2450 lbs	2450 lbs	2450 lbs	2450 lbs	2450 lbs

TYPICAL PLAN "B" (Self Contained Backup)

TYPICAL ELEVATION "B"

TYPICAL PLAN "S" (Side Mount, Concrete Backup Support)

TYPICAL ELEVATION "S"

CONCRETE PAVEMENT DETAIL

NOTE: 1/4" ASPHALT SHALL BE INSTALLED OVER REACT. MIN. ASPHALT THICKNESS SHALL BE 1/4".

ASPHALT PAVEMENT DETAIL

NOTE: 1/4" ASPHALT SHALL BE INSTALLED OVER REACT. MIN. ASPHALT THICKNESS SHALL BE 1/4".

GENERAL NOTES

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DESIGN DATA

REACT	REACT	REACT	REACT	REACT	REACT	REACT
350-15	350-15	350-15	350-15	350-15	350-15	350-15
SECTION	45 MPH	45 MPH	45 MPH	45 MPH	45 MPH	45 MPH
DESIGN	18'-0"	18'-0"	18'-0"	18'-0"	18'-0"	18'-0"
LENGTH	18'-0"	18'-0"	18'-0"	18'-0"	18'-0"	18'-0"
WEIGHT	2450 lbs	2450 lbs	2450 lbs	2450 lbs	2450 lbs	2450 lbs

TYPICAL PLAN "B" (Self Contained Backup)

TYPICAL ELEVATION "B"

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ASPHALT PAVEMENT DETAIL

NOTE: 1/4" ASPHALT SHALL BE INSTALLED OVER REACT. MIN. ASPHALT THICKNESS SHALL BE 1/4".

This document is prepared for the purpose of design and construction of the Runway 17-35 Extension/Displacement and Connecting Taxiway Project.
It is to be used for construction and shall not be used for any other purpose.



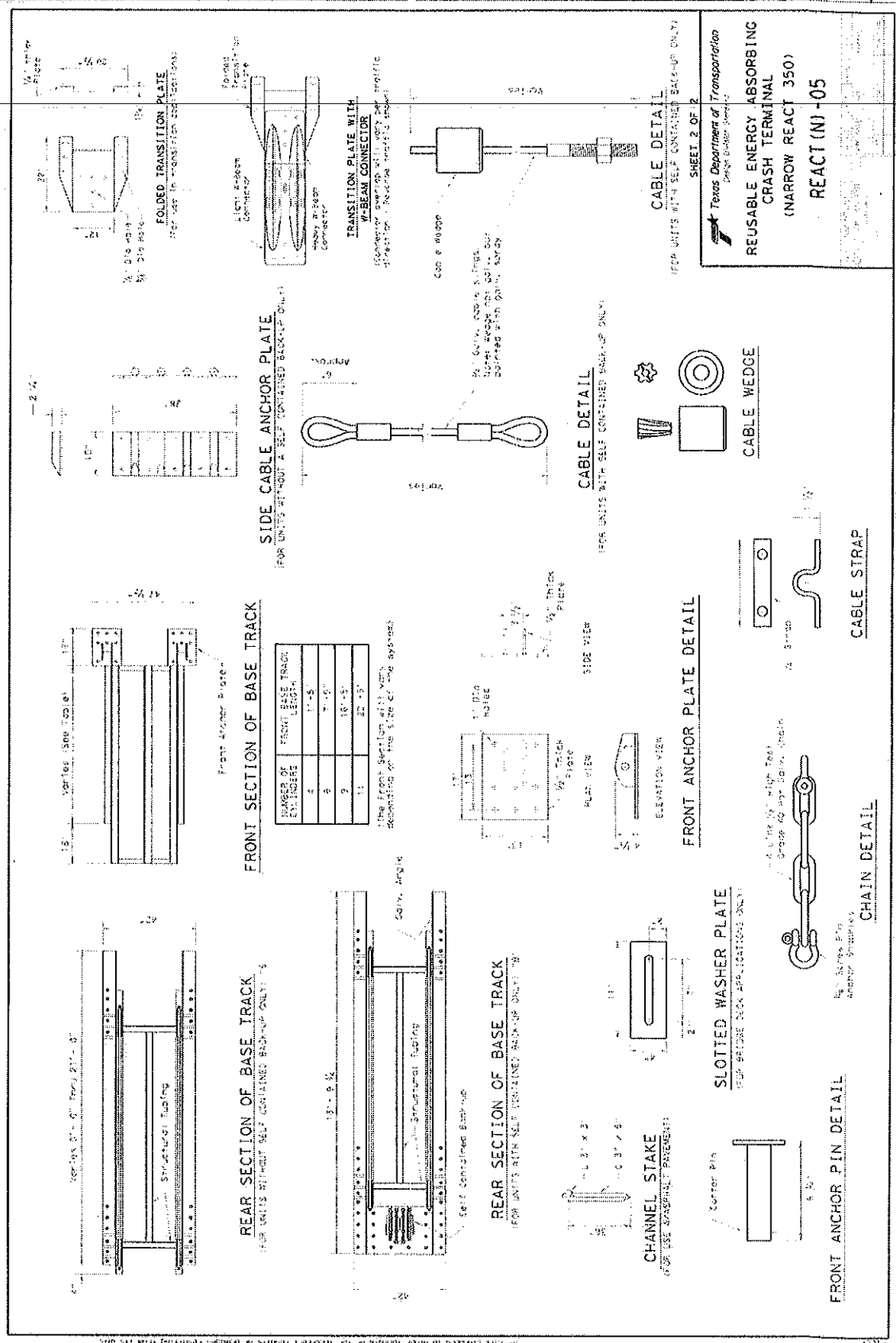
Department of Engineering Services
CITY OF CORPUS CHRISTI
TEXAS

REUSABLE ENERGY ABSORBING CRASH TERMINAL II
AND CONNECTING TAXIWAY PROJECT
CORPUS CHRISTI INTERNATIONAL AIRPORT

SHEET 49 of 86
AP-138

REACT (N) - 05
NARROW REACT 350

Department of Transportation
Texas Department of Transportation
Single Point Turnover



SECTION 301.02.01 is governed by the Texas Building Regulations Act. No waiver of any provision of this section for any purpose, including, but not limited to, emergency repairs, shall be given by the Department of Transportation or the Department of Engineering Services.

SECTION 301.02.01 is governed by the Texas Building Regulations Act. No waiver of any provision of this section for any purpose, including, but not limited to, emergency repairs, shall be given by the Department of Transportation or the Department of Engineering Services.

CORPUS CHRISTI INTERNATIONAL AIRPORT
 RUNWAY 17-35 EXTENSION/DISPLACEMENT
 AND CONNECTING TAXIWAY PROJECT

SH 44 ROW LIGHT POLE REVISION PLAN

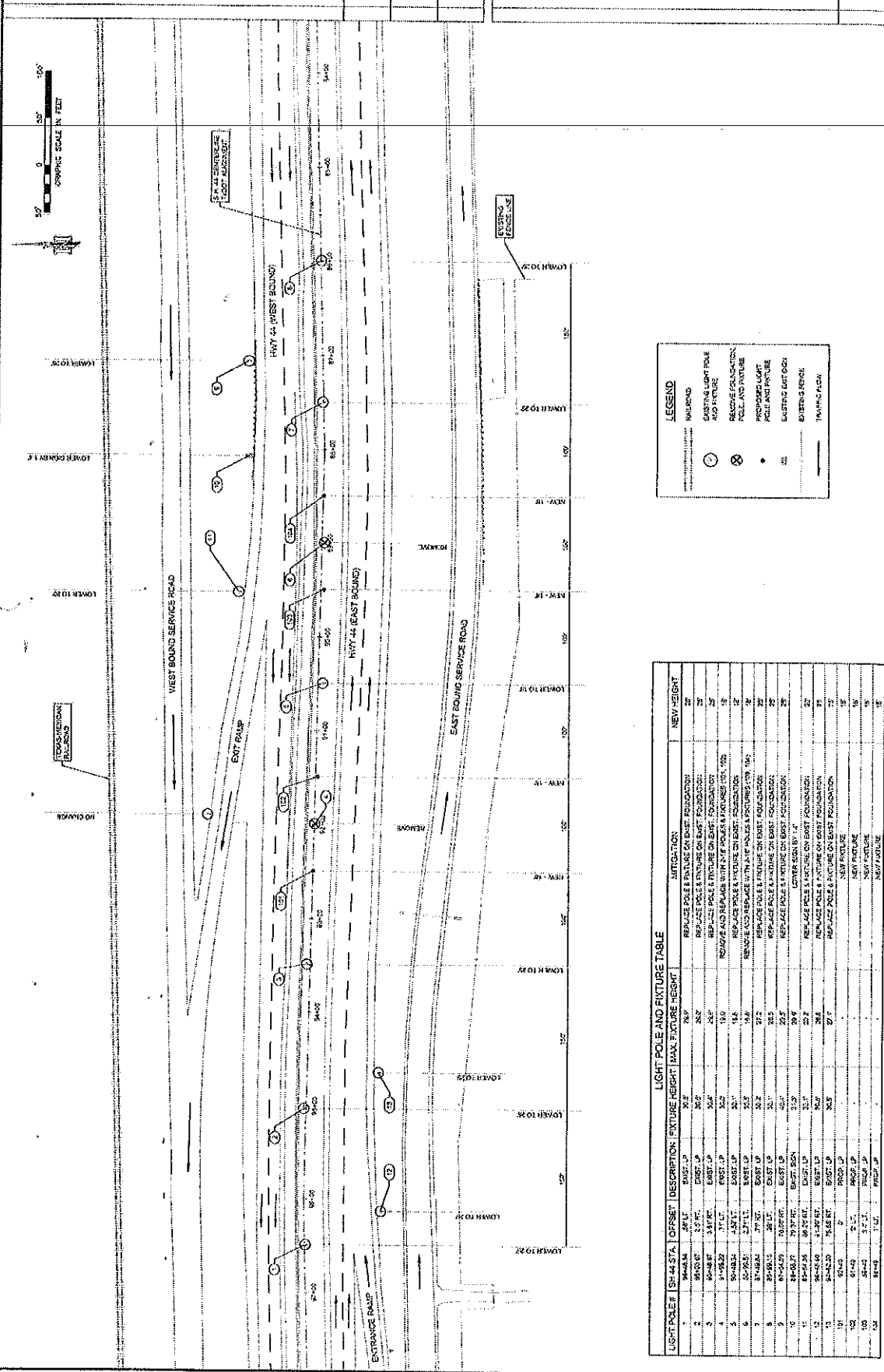
CITY OF CORPUS CHRISTI
 Department of Engineering Services



KSA
 ENGINEERS

This document is prepared under the authority of Robert C. ...

SHEET 70 of 85
 APP-138
 PROJECT: E11046



LEGEND

- EXISTING LIGHT POLE AND FIXTURE
- ⊗ REPLACE EXISTING LIGHT POLE AND FIXTURE
- NEW LIGHT POLE AND FIXTURE
- ⊞ EXISTING LIGHT POLE AND FIXTURE
- ⊞ EXISTING LIGHT POLE AND FIXTURE
- TRAFFIC SIGN

LIGHT POLE AND FIXTURE TABLE

LIGHT POLE #	SH 44 STA	OFFSET	DESCRIPTION	FIXTURE HEIGHT	MAX FIXTURE HEIGHT	MITIGATION	NEW HEIGHT
1	84+00.0	20.0 FT	EXIST.P	30.0	30.0	REPLACE POLE & FIXTURE ON EAST FOUNDATION	30
2	84+00.0	15.0 FT	EXIST.P	30.0	30.0	REPLACE POLE & FIXTURE ON EAST FOUNDATION	30
3	84+00.0	10.0 FT	EXIST.P	30.0	30.0	REPLACE POLE & FIXTURE ON EAST FOUNDATION	30
4	84+00.0	5.0 FT	EXIST.P	30.0	30.0	REPLACE POLE & FIXTURE ON EAST FOUNDATION	30
5	84+00.0	0.0 FT	EXIST.P	30.0	30.0	REPLACE POLE & FIXTURE ON EAST FOUNDATION	30
6	84+00.0	5.0 FT	EXIST.P	30.0	30.0	REPLACE POLE & FIXTURE ON EAST FOUNDATION	30
7	84+00.0	10.0 FT	EXIST.P	30.0	30.0	REPLACE POLE & FIXTURE ON EAST FOUNDATION	30
8	84+00.0	15.0 FT	EXIST.P	30.0	30.0	REPLACE POLE & FIXTURE ON EAST FOUNDATION	30
9	84+00.0	20.0 FT	EXIST.P	30.0	30.0	REPLACE POLE & FIXTURE ON EAST FOUNDATION	30
10	84+00.0	25.0 FT	EXIST.P	30.0	30.0	REPLACE POLE & FIXTURE ON EAST FOUNDATION	30
11	84+00.0	30.0 FT	EXIST.P	30.0	30.0	REPLACE POLE & FIXTURE ON EAST FOUNDATION	30
12	84+00.0	35.0 FT	EXIST.P	30.0	30.0	REPLACE POLE & FIXTURE ON EAST FOUNDATION	30
13	84+00.0	40.0 FT	EXIST.P	30.0	30.0	REPLACE POLE & FIXTURE ON EAST FOUNDATION	30
14	84+00.0	45.0 FT	EXIST.P	30.0	30.0	REPLACE POLE & FIXTURE ON EAST FOUNDATION	30
15	84+00.0	50.0 FT	EXIST.P	30.0	30.0	REPLACE POLE & FIXTURE ON EAST FOUNDATION	30
16	84+00.0	55.0 FT	EXIST.P	30.0	30.0	REPLACE POLE & FIXTURE ON EAST FOUNDATION	30
17	84+00.0	60.0 FT	EXIST.P	30.0	30.0	REPLACE POLE & FIXTURE ON EAST FOUNDATION	30
18	84+00.0	65.0 FT	EXIST.P	30.0	30.0	REPLACE POLE & FIXTURE ON EAST FOUNDATION	30
19	84+00.0	70.0 FT	EXIST.P	30.0	30.0	REPLACE POLE & FIXTURE ON EAST FOUNDATION	30
20	84+00.0	75.0 FT	EXIST.P	30.0	30.0	REPLACE POLE & FIXTURE ON EAST FOUNDATION	30
21	84+00.0	80.0 FT	EXIST.P	30.0	30.0	REPLACE POLE & FIXTURE ON EAST FOUNDATION	30
22	84+00.0	85.0 FT	EXIST.P	30.0	30.0	REPLACE POLE & FIXTURE ON EAST FOUNDATION	30
23	84+00.0	90.0 FT	EXIST.P	30.0	30.0	REPLACE POLE & FIXTURE ON EAST FOUNDATION	30
24	84+00.0	95.0 FT	EXIST.P	30.0	30.0	REPLACE POLE & FIXTURE ON EAST FOUNDATION	30
25	84+00.0	100.0 FT	EXIST.P	30.0	30.0	REPLACE POLE & FIXTURE ON EAST FOUNDATION	30

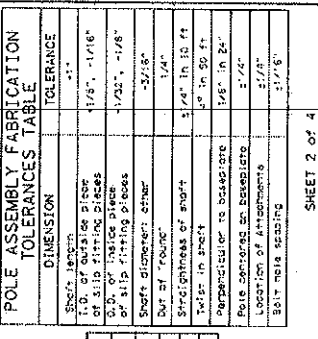


MATERIAL DATA

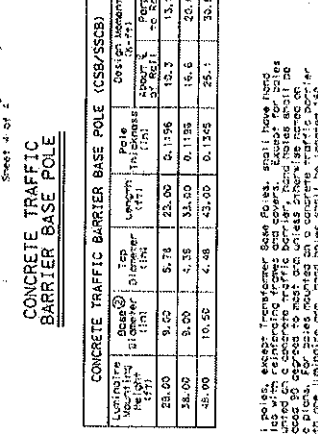
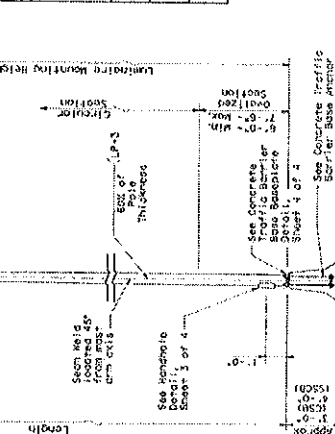
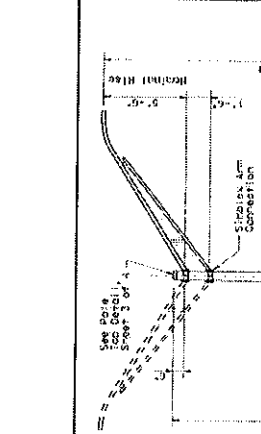
COMPONENT	DESIGNATION	QTY	MIN. FACT1	MIN. FACT2
Pole Shaft (4.5' x 4.5' Top)	A572 Gr 50, 11.25' dia or 55 (11.25' dia) or A1028 (11.25' dia) or 55 (11.25' dia)	50		
Base Flange and Anchor Bolts	A36 Gr 50, 48" dia	50		
1" Base Connecting Bolts	A325 Gr 50	92		
Anchor Bolts	F1554 Gr 50, A1934 Gr 50	55		
Anchor Bolt Templates	A36	56		
Heavy Hex UN-F Nut	A194 Gr 2H or A563 Gr Dn			
Flat Washers	F445			

POLE ASSEMBLY FABRICATION TOLERANCES TABLE

DIMENSION	TOLERANCE
Shaft length	+1"
0.0' of outside pipe	-1/8", -1/16"
0.0' of inside pipe	+1/8", -1/16"
0.0' of diameter of slip fitting pieces	-1/32", -1/8"
Shaft diameter other	+2/16"
Shaft diameter	+1/4"
Slip-fitting of shaft	3/4" in 50 ft
Twist in shaft	5" in 50 ft
perpendicular to baseplate	1/8" in 24"
Pole mounted on baseplate	3/4"
Location of attachment	±1/8"
Bolt hole spacing	±1/16"



Texas Department of Transportation
 ROADWAY ILLUMINATION POLES
 RIP(2) - 11
 SHEET 2 of 4



SHOE BASE POLE

Limiting Mounting Height (ft)	Top Diameter (in)	Length (ft)	Pole Thickness (in)	Design Moment (ft-k)
20.00	7.00	5.11	13.50	0.1196
30.00	7.50	4.21	23.50	0.1196
31.00-39.00	8.50	3.47-3.45	50-52.50	0.1196
40.00	8.50	3.81	33.50	0.1196
50.00	10.00	3.41	43.50	0.1196
				30.3

TRANSFORMER BASE POLE

Limiting Mounting Height (ft)	Top Diameter (in)	Length (ft)	Pole Thickness (in)	Design Moment (ft-k)
20.00	7.00	5.11	13.50	0.1196
30.00	7.50	4.21	23.50	0.1196
31.00-39.00	8.50	3.47-3.45	50-52.50	0.1196
40.00	8.50	3.81	33.50	0.1196
50.00	10.00	3.41	43.50	0.1196
				30.3

CONCRETE TRAFFIC BARRIER BASE POLE (CSB/SCSB)

Limiting Mounting Height (ft)	Top Diameter (in)	Length (ft)	Pole Thickness (in)	Design Moment (ft-k)
20.00	9.00	5.78	23.00	0.1196
30.00	9.00	4.38	33.00	0.1196
40.00	10.50	4.48	43.00	0.1345
				25.1
				30.5

The use of this standard is intended to provide uniformity of design and construction for the various types of poles used in roadway lighting applications. It is not intended to cover all possible applications or to restrict the use of any particular material or design. The designer is responsible for the selection of the appropriate pole and for the design of the lighting fixture and its attachment to the pole.

All poles, except Transformer Base Poles, shall have hand painted or galvanized finish. Transformer Base Poles shall be painted in accordance with the specifications for the project. Unless otherwise noted, all steel poles shall be painted in accordance with the specifications for the project. Steel poles shall be constructed in accordance with the specifications for the project. Poles shall have a minimum height of 20 feet and a maximum height of 50 feet. Poles shall be constructed in accordance with the specifications for the project.

The following table shows the design moment for the various types of poles. The design moment is based on the limiting mounting height and the design moment for the pole. The design moment is based on the limiting mounting height and the design moment for the pole. The design moment is based on the limiting mounting height and the design moment for the pole.

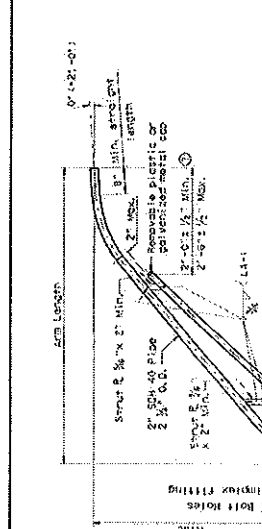
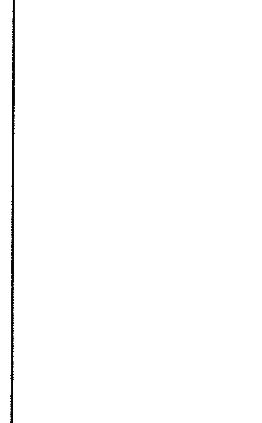
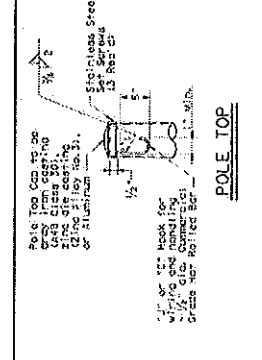
The following table shows the design moment for the various types of poles. The design moment is based on the limiting mounting height and the design moment for the pole. The design moment is based on the limiting mounting height and the design moment for the pole. The design moment is based on the limiting mounting height and the design moment for the pole.



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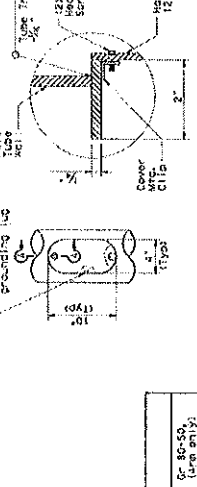
ARM ASSEMBLY FABRICATION TOLERANCES TABLE

DIMENSION	TOLERANCE
ARM WIDTH	± .001
ARM FLATNESS	± .001
ARM DIAMETER	± .001
OVERALL LENGTH OR WIDTH	± .001
THICKNESS	± .001
SECTIONAL AREA	± .001
SECTIONAL AREA PER FOOT	± .001
SECTIONAL AREA PER SQUARE FOOT	± .001
SECTIONAL AREA PER SQUARE INCH	± .001



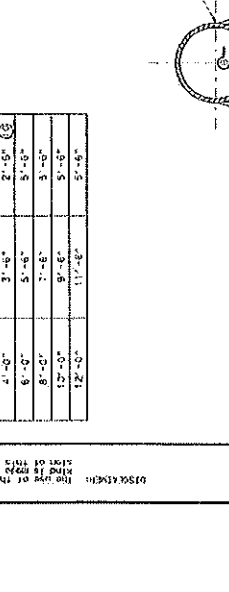
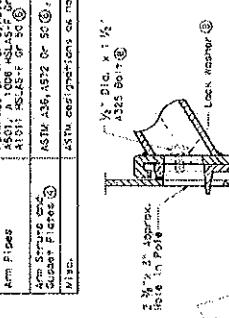
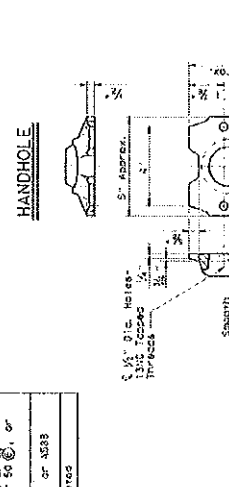
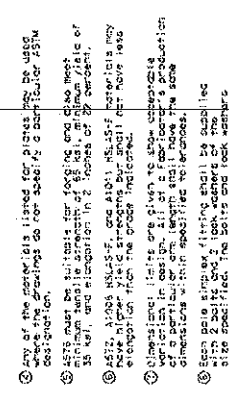
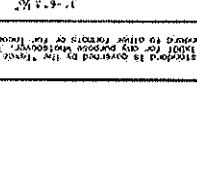
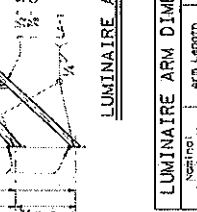
LUMINAIRE ARM DIMENSIONS

Arm Length	Arm Width
2'-0"	2'-0"
3'-0"	3'-0"
4'-0"	4'-0"
5'-0"	5'-0"
6'-0"	6'-0"
7'-0"	7'-0"
8'-0"	8'-0"
9'-0"	9'-0"
10'-0"	10'-0"
11'-0"	11'-0"
12'-0"	12'-0"



MATERIALS

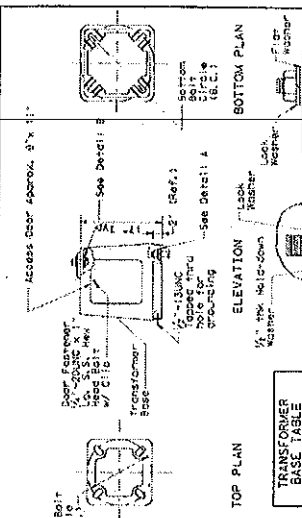
Pole or Arm Simplex	ASTM A53	or	ASTM A133	or	ASTM A153	or	ASTM A182	or	ASTM A333
Arm Pipes	A53	or	A133	or	A153	or	A182	or	A333
Arm Simplex	A53	or	A133	or	A153	or	A182	or	A333
Handhole Plates	A53	or	A133	or	A153	or	A182	or	A333
Misc.	A53	or	A133	or	A153	or	A182	or	A333



DATE: 11/15/11
 PREPARED BY: L.A. BOGARD
 CHECKED BY: R. J. BOGARD
 DRAWN BY: L.A. BOGARD

KSA ENGINEERS
 4955 JAMES H. WHITE, THEODORE
 15000 WEST LOOP SOUTH, SUITE
 1000, HOUSTON, TEXAS 77040
 REGISTERED PROFESSIONAL ENGINEER
 LICENSE NO. 10829

The engineer is
 qualified to prepare
 drawings and reports
 on the authority of Robert C.
 Johnson, P.E., which on
 January 25, 2012 he had
 signed and sealed for
 construction, building or
 permit purposes.



TRANSFORMER BASE TABLE

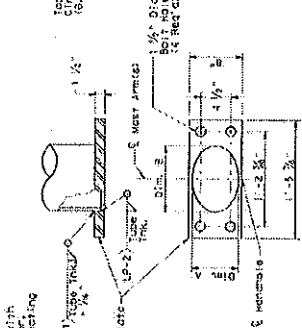
TYPE	NO.	DIAM.	HEIGHT
1	2	15"	1 1/4"
2	3	15"	1 1/4"

For mounting heights between those shown in the table, use the values in the table for the larger mounting height.

All mounting bases shall meet the structural requirements of the 2001 Edition of the AISI 304 Stainless Steel Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. The steel shall have been tested to resist 100% of the design moment.

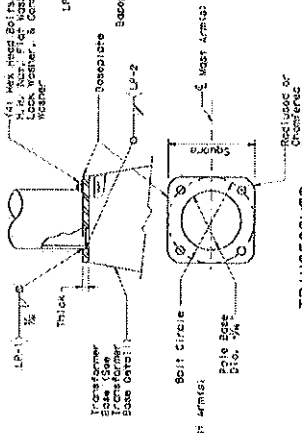
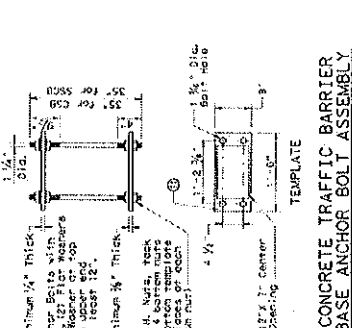
Transformer bases shall be cast from a minimum 3500 PSI concrete with a minimum 4000 PSI compressive strength. The concrete shall be cast in place and shall be cured with a minimum 7-day curing period. The concrete shall be tested to a minimum of 100% of the design moment.

Bases shall be finished, primed or by other approved treatment, and shall be painted with a minimum of two coats of a high quality, weather-resistant paint. The paint shall be applied to all surfaces of the base, including the underside.



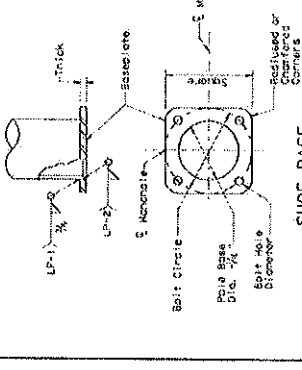
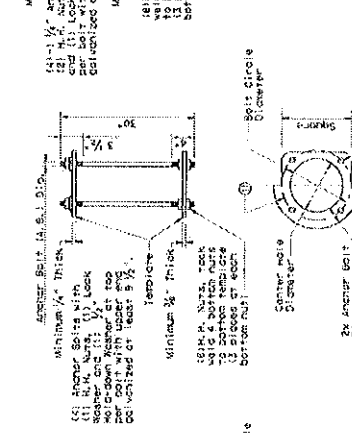
CONCRETE TRAFFIC BARRIER BASE TABLE

HEIGHTS	NO.	DIAM.	DIAM. B
28" - 38"	1	7 1/2"	10 1/2"
48"	2	7 1/2"	13 1/2"



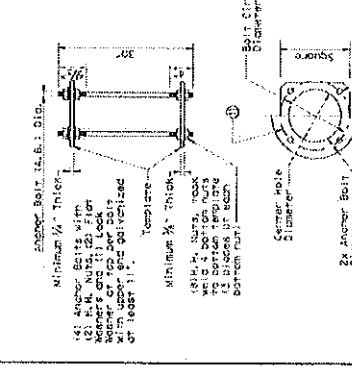
TRANSFORMER BASE TABLE

HEIGHTS	NO.	DIAM.	DIAM. B
20" - 30"	1	1 1/4"	1 1/4"
40"	2	1 1/4"	1 1/4"
50"	3	1 1/4"	1 1/4"



SHOE BASE TABLE

HEIGHTS	NO.	DIAM.	DIAM. B
20" - 30"	1	1 1/4"	1 1/4"
40"	2	1 1/4"	1 1/4"
50"	3	1 1/4"	1 1/4"



Texas Department of Transportation
 Traffic Operations Division

ROADWAY ILLUMINATION POLES

RIP(4) - 11

SHEET 4 of 4

ANCHOR BOLT FABRICATION TOLERANCES TABLE

DIMENSION	TOLERANCE
Length	± 1/8"
Increased length	± 1/8"
Shortened length (if required)	± 1/8"

TRANSFORMER BASE ANCHOR BOLT ASSEMBLY TABLE

HEIGHTS	NO.	DIAM.	DIAM. B
20" - 30"	1	1 1/4"	1 1/4"
40"	2	1 1/4"	1 1/4"
50"	3	1 1/4"	1 1/4"

SHOE BASE ANCHOR BOLT ASSEMBLY TABLE

HEIGHTS	NO.	DIAM.	DIAM. B
20" - 30"	1	1 1/4"	1 1/4"
40"	2	1 1/4"	1 1/4"
50"	3	1 1/4"	1 1/4"

REVISIONS: The use of this drawing is restricted to the project and location indicated on the drawing. Any other use is prohibited. The City of Corpus Christi, Texas, Department of Engineering Services, is not responsible for the accuracy of any information or data provided by the contractor or other parties. The City of Corpus Christi, Texas, Department of Engineering Services, is not responsible for the accuracy of any information or data provided by the contractor or other parties.

DESIGNED BY: [Name] DATE: [Date]

CHECKED BY: [Name] DATE: [Date]

APPROVED BY: [Name] DATE: [Date]

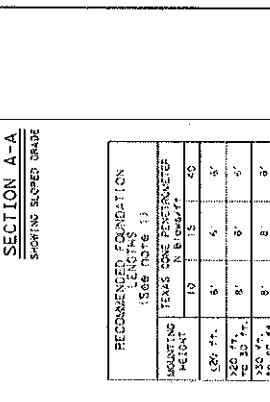
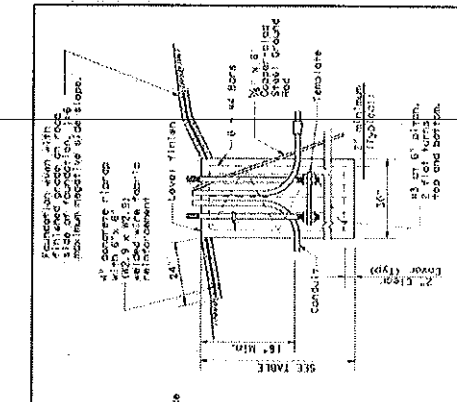
KSA ENGINEERS

1100 NORTH WASHINGTON STREET
SUITE 1000
HOUSTON, TEXAS 77002

CITY OF CORPUS CHRISTI
TEXAS
Department of Engineering Services

ROADWAY ILLUMINATION DETAILS-III
CORPUS CHRISTI INTERNATIONAL AIRPORT
RUNWAY 17-35 EXTENSION/ISPLACEMENT
AND CONNECTING TAXIWAY PROJECT

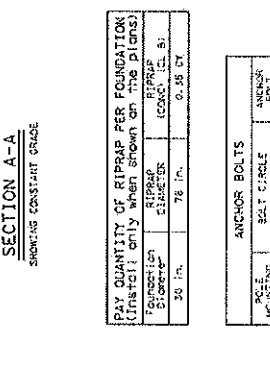
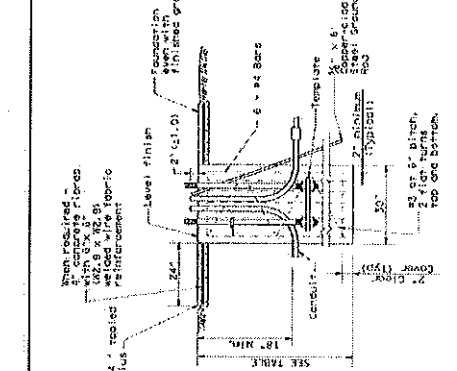
SHEET 77 of 85
REVISED DRAWING
AP-138
PROJECT EIT1046
EXHIBIT C - 15/17



HEIGHT	10'	15'	20'	25'	30'
LENGTH	6'	8'	10'	12'	14'
WIDTH	6'	8'	10'	12'	14'
DEPTH	6'	8'	10'	12'	14'
DIAMETER	6"	8"	10"	12"	14"
WEIGHT	10	15	20	25	30

RECOMMENDED FOUNDATION LENGTHS (See note 1)
TEXAS CONE PENETROMETER N. TRANSFER

ROADWAY ILLUMINATION DETAILS (RDWY ILLUM FOUNDATIONS) RID (FND) - 11



HEIGHT	10'	15'	20'	25'	30'
LENGTH	6'	8'	10'	12'	14'
WIDTH	6'	8'	10'	12'	14'
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RECOMMENDED FOUNDATION LENGTHS (See note 1)
TEXAS CONE PENETROMETER N. TRANSFER

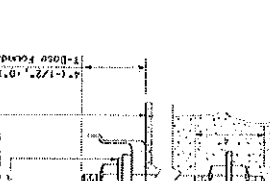
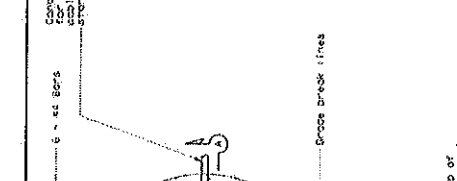
ROADWAY ILLUMINATION DETAILS (RDWY ILLUM FOUNDATIONS) RID (FND) - 11



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RECOMMENDED FOUNDATION LENGTHS (See note 1)
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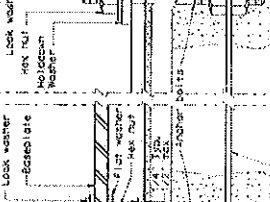
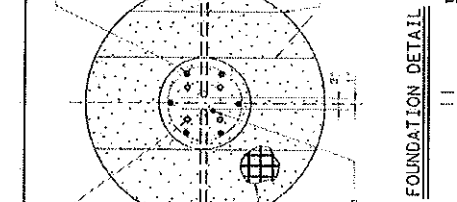
ROADWAY ILLUMINATION DETAILS (RDWY ILLUM FOUNDATIONS) RID (FND) - 11



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LENGTH	6'	8'	10'	12'	14'
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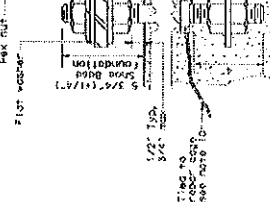
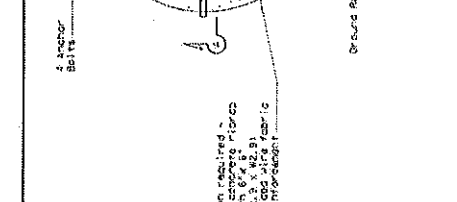
ROADWAY ILLUMINATION DETAILS (RDWY ILLUM FOUNDATIONS) RID (FND) - 11



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RECOMMENDED FOUNDATION LENGTHS (See note 1)
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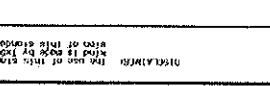
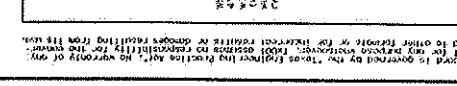
ROADWAY ILLUMINATION DETAILS (RDWY ILLUM FOUNDATIONS) RID (FND) - 11



HEIGHT	10'	15'	20'	25'	30'
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ROADWAY ILLUMINATION DETAILS (RDWY ILLUM FOUNDATIONS) RID (FND) - 11



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TEXAS CONE PENETROMETER N. TRANSFER

ROADWAY ILLUMINATION DETAILS (RDWY ILLUM FOUNDATIONS) RID (FND) - 11

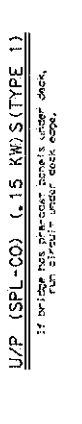
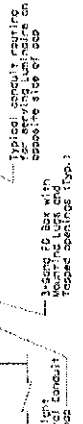
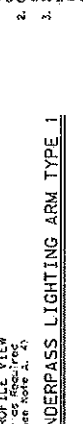
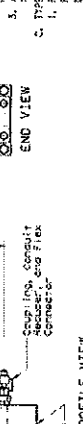
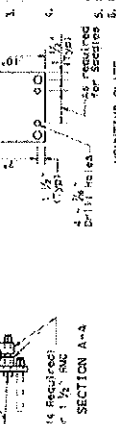
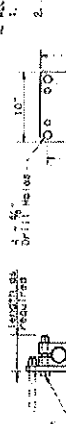


HEIGHT	10'	15'	20'	25'	30'
LENGTH	6'	8'	10'	12'	14'
WIDTH	6'	8'	10'	12'	14'
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DIAMETER	6"	8"	10"	12"	14"
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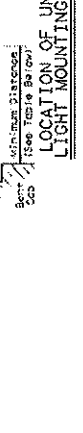
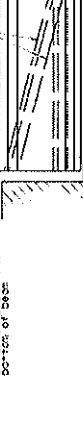
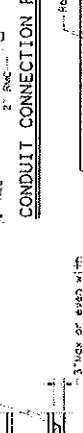
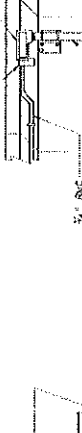
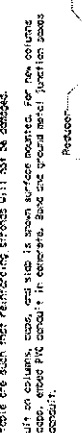
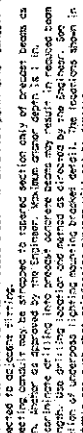
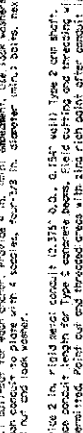
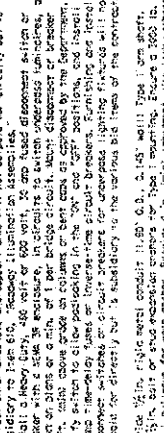
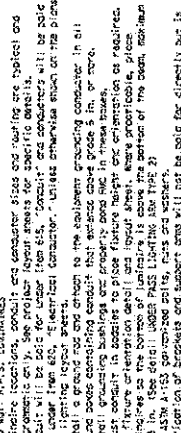
RECOMMENDED FOUNDATION LENGTHS (See note 1)
TEXAS CONE PENETROMETER N. TRANSFER

ROADWAY ILLUMINATION DETAILS (RDWY ILLUM FOUNDATIONS) RID (FND) - 11

5053-A1468: THE USE OF THIS DRAWING IS GOVERNED BY THE TERMS AND CONDITIONS OF THE LICENSE AGREEMENT FOR THE ROADWAY ILLUMINATION PROJECT. NO PART OF THIS DRAWING IS TO BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, WITHOUT THE WRITTEN PERMISSION OF THE ENGINEER. THE ENGINEER'S LIABILITY IS LIMITED TO THE DESIGN AND CONSTRUCTION OF THE ROADWAY ILLUMINATION PROJECT. NO OTHER LIABILITY IS ASSUMED BY THE ENGINEER.



NOTES:
 1. ALL USE WITH H.P.S. LUMINAIRES.
 2. Luminaire locations, conduits and conductor sizes and markings are subject to change without notice. See project layout sheets for specific details.
 3. Conduit will be sold for under floor pits, "conduits" and conductors will be sold for above ground. See project layout sheets for specific details.
 4. See listing for specific details.
 5. Install a ground rod and attach to the equipment grounding conductor in all underpass lighting applications. The ground rod shall be installed in a concrete pad at least 6 feet from the structure. The ground rod shall be installed in a concrete pad at least 6 feet from the structure. The ground rod shall be installed in a concrete pad at least 6 feet from the structure.
 6. Set fixture orientation detail and layout sheets, where appropriate, on the drawing. See fixture orientation detail and layout sheets, where appropriate, on the drawing. See fixture orientation detail and layout sheets, where appropriate, on the drawing.
 7. For information on brackets, see project layout sheets.
 8. For information on brackets, see project layout sheets.
 9. For information on brackets, see project layout sheets.
 10. For information on brackets, see project layout sheets.
 11. For information on brackets, see project layout sheets.
 12. For information on brackets, see project layout sheets.
 13. For information on brackets, see project layout sheets.
 14. For information on brackets, see project layout sheets.
 15. For information on brackets, see project layout sheets.
 16. For information on brackets, see project layout sheets.
 17. For information on brackets, see project layout sheets.
 18. For information on brackets, see project layout sheets.
 19. For information on brackets, see project layout sheets.
 20. For information on brackets, see project layout sheets.



CITY OF CORPUS CHRISTI
 Department of Engineering Services

ROADWAY ILLUMINATION DETAILS IV
 AND CONNECTING TAXWAY PROJECT
 CORPUS CHRISTI INTERNATIONAL AIRPORT

SHEET 78 of 85
 ROADWAY ILLUMINATION
 AP-138
 CONTRACT NO. 611048

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U/P (SPL-CC) (.15 KW)(TYPE 2)

UNDERPASS LIGHTING ARM TYPE 2

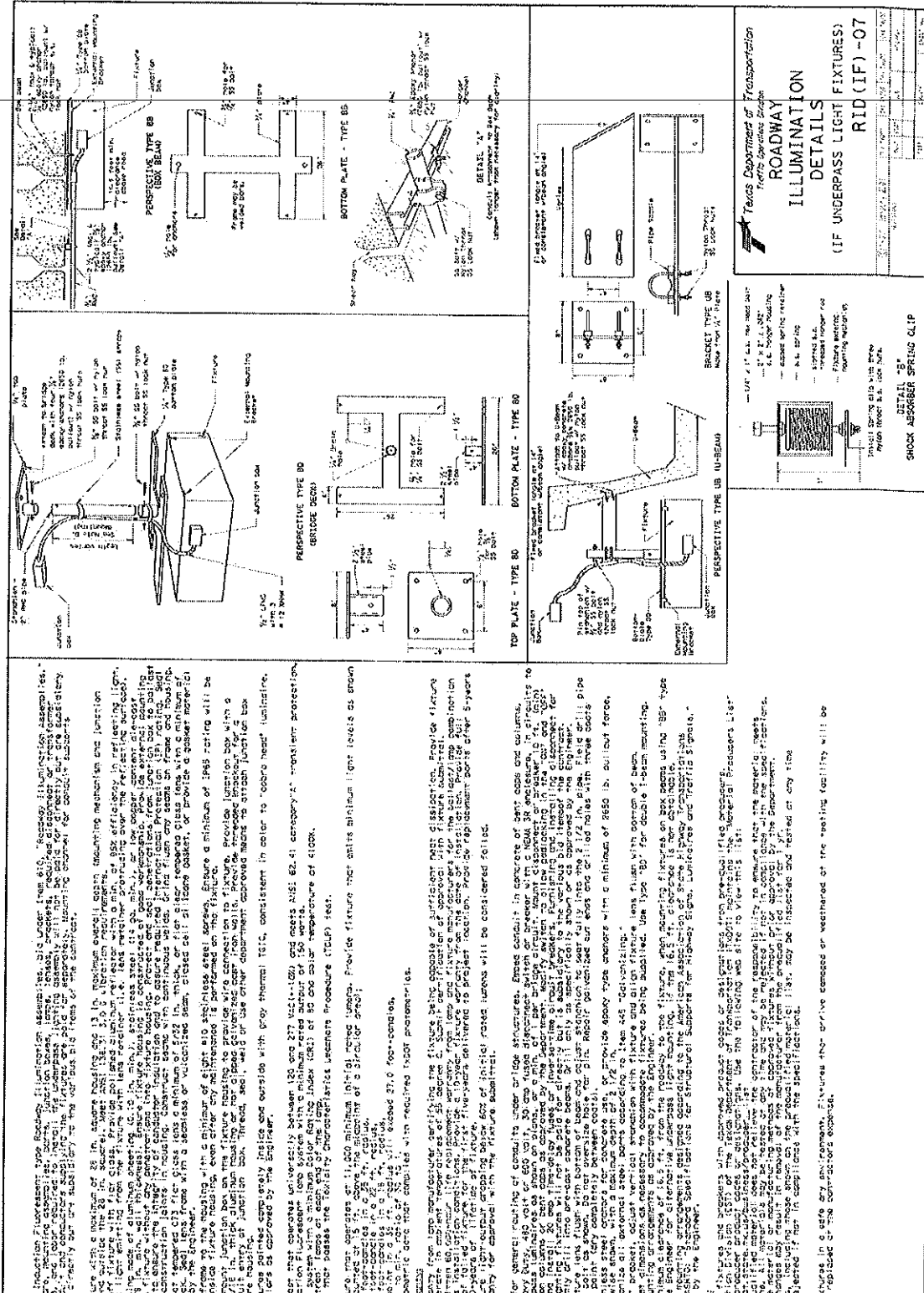
LOCATION OF UNDERPASS LIGHT MOUNTING BRACKET

BRACKET	HEIGHT	WIDTH	DEPTH
1	12"	12"	12"
2	12"	12"	12"
3	12"	12"	12"
4	12"	12"	12"
5	12"	12"	12"
6	12"	12"	12"
7	12"	12"	12"
8	12"	12"	12"
9	12"	12"	12"
10	12"	12"	12"

U/P (SPL-CC) (.15 KW)(TYPE 1)
 If bridge has pre-cast panels under deck, run straight under deck edge.

GENERAL NOTES:

1. See Section 101.00 for details of the fixture mounting structure and the fixture mounting structure.
2. The fixture mounting structure shall be fabricated from 304 stainless steel.
3. The fixture mounting structure shall be fabricated from 304 stainless steel.
4. The fixture mounting structure shall be fabricated from 304 stainless steel.
5. The fixture mounting structure shall be fabricated from 304 stainless steel.
6. The fixture mounting structure shall be fabricated from 304 stainless steel.
7. The fixture mounting structure shall be fabricated from 304 stainless steel.
8. The fixture mounting structure shall be fabricated from 304 stainless steel.
9. The fixture mounting structure shall be fabricated from 304 stainless steel.
10. The fixture mounting structure shall be fabricated from 304 stainless steel.



KSA ENGINEERS
 801 SOUTH BAY STREET, SUITE 200
 CORPUS CHRISTI, TEXAS 78401
 TEL: 361-841-1111
 FAX: 361-841-1112

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DATE: FILE: THE USE OF THIS DRAWING IS GOVERNED BY THE TERMS AND CONDITIONS OF THE LICENSE AGREEMENT OR OTHER INSTRUMENT WHICH MAY BE APPLICABLE TO THIS PROJECT. THE CITY OF CORPUS CHRISTI, TEXAS, IS NOT RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION CONTAINED HEREIN. THE CITY OF CORPUS CHRISTI, TEXAS, IS NOT RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION CONTAINED HEREIN.

EXHIBIT D

**Certificate of Insurance
(TxDOT Form 1560)**



CERTIFICATE OF INSURANCE

Form 1560
(Rev. 01/12)
Previous editions of this form may not be used.
Page 1 of 2

Agents should complete the form providing all requested information then either fax or mail this form directly to the address listed on page two of this form. Copies of endorsements listed below are not required as attachments to this certificate.

This certificate is issued as a matter of information only and confers no rights upon the certificate holder. This certificate does not confer any rights or obligations other than the rights and obligations conveyed by the policies referenced on this certificate. The terms of the policies referenced in this certificate control over the terms of the certificate.

Insured: _____

Street/Mailing Address: _____

City/State/Zip: _____

Phone Number: () - _____

WORKERS' COMPENSATION INSURANCE COVERAGE:

Endorsed with a Waiver of Subrogation in favor of TxDOT.

Carrier Name:			Carrier Phone #: () -	
Address:			City, State, Zip:	
Type of Insurance	Policy Number	Effective Date	Expiration Date	Limits of Liability:
Workers' Compensation				Not Less Than: Statutory - Texas

COMMERCIAL GENERAL LIABILITY INSURANCE:

Carrier Name:			Carrier Phone #: () -	
Address:			City, State, Zip:	
Type of Insurance:	Policy Number:	Effective Date:	Expiration Date:	Limits of Liability:
Commercial General Liability Insurance				Not Less Than: \$ 600,000 each occurrence

BUSINESS AUTOMOBILE POLICY:

Carrier Name:			Carrier Phone #: () -	
Address:			City, State, Zip:	
Type of Insurance:	Policy Number:	Effective Date:	Expiration Date:	Limits of Liability:
Business Automobile Policy Bodily Injury Property Damage				Not Less Than: \$ 600,000 combined single limit

UMBRELLA POLICY (if applicable):

Carrier Name:			Carrier Phone #: () -	
Address:			City, State, Zip:	
Type of Insurance:	Policy Number:	Effective Date:	Expiration Date:	Limits of Liability:
Umbrella Policy				

Should any of the above described policies be cancelled before the expiration date thereof, notice will be delivered in accordance with the policy provisions. THIS IS TO CERTIFY to the Texas Department of Transportation acting on behalf of the State of Texas that the insurance policies named are in full force and effect. If this form is sent by facsimile machine (fax), the sender adopts the document received by TxDOT as a duplicate original and adopts the signature produced by the receiving fax machine as the sender's original signature.

Agency Name	Address	City, State, Zip Code
_____	_____	_____
() - _____		

Authorized Agent's Phone Number	Authorized Agent Original Signature	Date
_____	_____	_____

The Texas Department of Transportation maintains the information collected through this form. With few exceptions, you are entitled on request to be informed about the information that we collect about you. Under §§552.021 and 552.023 of the Texas Government Code, you also are entitled to receive and review the information. Under §559.004 of the Government Code, you are also entitled to have us correct information about you that is incorrect.

Fax completed form to: 512/416-2536

NOTES TO AGENTS:

Agents must provide all requested information then either fax or mail this form directly to the address listed below.

Pre-printed limits are the minimum required; if higher limits are provided by the policy, enter the higher limit amount and strike-through or cross-out the pre-printed limit.

To avoid work suspension, an updated insurance form must reach the address listed below one business day prior to the expiration date. Insurance must be in force in order to perform any work.

Binder numbers are not acceptable for policy numbers.

The certificate of insurance, once on file with the department, is adequate for subsequent department contracts provided adequate coverage is still in effect. Do not refer to specific projects/contracts on this form.

List the contractor's legal company name, including the DBA (doing business as) name as the insured. If a staff leasing service is providing insurance to the contractor/client company, list the staff leasing service as the insured and show the contractor/client company in parenthesis.

The TxDOT certificate of insurance form is the only acceptable proof of insurance for department contracts.

List the contractor's legal company name, including the DBA (doing business as) name as the insured or list both the contractor and staff leasing service as insured when a staff leasing service is providing insurance.

Over-stamping and/or over-typing entries on the certificate of insurance are not acceptable if such entries change the provisions of the certificate in any manner.

This form may be reproduced.

DO NOT COMPLETE THIS FORM UNLESS THE WORKERS' COMPENSATION POLICY IS ENDORSED WITH A WAIVER OF SUBROGATION IN FAVOR OF TXDOT.

The **SIGNATURE** of the agent is required.

CERTIFICATE OF INSURANCE REQUIREMENTS:

WORKERS' COMPENSATION INSURANCE:

The contractor is required to have Workers' Compensation Insurance if the contractor has any employees including relatives.

The word **STATUTORY**, under limits of liability, means that the insurer would pay benefits allowed under the Texas Workers' Compensation Law.

GROUP HEALTH or **ACCIDENT INSURANCE** is not an acceptable substitute for Workers' Compensation.

COMMERCIAL GENERAL LIABILITY INSURANCE:

MANUFACTURERS' or **CONTRACTOR LIABILITY INSURANCE** is not an acceptable substitute for Comprehensive General Liability Insurance or Commercial General Liability Insurance.

BUSINESS AUTOMOBILE POLICY:

If coverages are specified separately, they must be at least these amounts:

Bodily Injury	\$500,000 each occurrence
	\$100,000 each occurrence
Property Damage	\$100,000 for aggregate

PRIVATE AUTOMOBILE LIABILITY INSURANCE is not an acceptable substitute for a Business Automobile Policy.

MAIL ALL CERTIFICATES TO:

Texas Department of Transportation
CST – Contract Processing Unit (RA/200 – 1st Fl.)
125 E. 11th Street
Austin, TX 78701-2483
512/416-2540 (Voice), 512/416-2536 (Fax)

ATTACHMENT A

Inasmuch as this project is on the Federal-Aid highway system, the following additional requirements as applicable with the Federal Highway Administration's Title 23, Code of Federal Regulations, § 710.

1. Any significant revision in the design or construction of the facility shall receive prior approval by the Texas Department of Transportation subject to concurrency by the FHWA.
2. Any change in the authorized use of airspace shall receive prior approval by the Texas Department of Transportation subject to concurrence by the FHWA.
3. The airspace shall not be transferred, assigned or conveyed to another party without prior Texas Department of Transportation approval subject to concurrence by the FHWA.
4. This agreement will be revocable in the event that the airspace facility ceases to be used or is abandoned.

EXHIBIT E