

**REVIEW BY FORT BEND COUNTY
COMMISSIONERS COURT**

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

- Right of Way Permit
 - Commercial Driveway Permit
- Permit No: 2017-12842

Applicant: Som Construction/Gandhi Designs

Job Location Site: 9720 State Highway 6 South, Sugar Land, TX 77498

Bond No. ██████████████████ **Date of Bond:** 4/21/2017 **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 9th day of May, 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

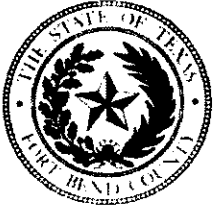
Presented to Commissioners Court and approved.

By: Chandy O. Ay
County Engineer

Date Recorded 5-15-2017 Comm. Court No. 11E

By: N/A
Drainage District Engineer/Manager

Clerk of Commissioners Court
By: Sandra Welles
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@fortbendcountytx.gov

- Right of Way Permit
- Commercial Driveway Permit

Permit No: 2017-12842

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 No: 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.

Charley O. ...

Permit Administrator

5/1/17

Date

24



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

AUTHORIZED

Effective Date: March 31, 2017

BOND NO. [REDACTED]

THE STATE OF TEXAS §

KNOW ALL MEN BY THESE PRESENTS:

COUNTY OF FORT BEND §

THAT WE, Som Construction whose address is 9720 Highway 6 South - Sugarland Texas, hereinafter called the Principal, And Nationwide Mutual Insurance Company, a Corporation existing under and by virtue of the laws of the state of Ohio and authorized to do an indemnifying business in the state of Texas, and whose principal office is located at 1100 Locust St., Dept. 2006 - Des Moines, IA 50391-2006, whose officer residing in the State of Texas, authorized to accept service in all suits and actions brought whining said state is Iowa and Whose address is 1100 Locust St., Dept. 2006 - Des Moines, IA 50391-2006, 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 no/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, commercial driveway and median openings or modifications 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, commercial driveway and median openings or modifications;

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, commercial driveway and median openings or modifications 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 21st day of April, 2017.

Som Construction

PRINCIPAL

BY

Nationwide Mutual Insurance Company

SURETY

BY

James Murray - Attorney-in-Fact



Power of Attorney

KNOW ALL MEN BY THESE PRESENTS THAT:

Nationwide Mutual Insurance Company, an Ohio corporation
National Casualty Company, an Ohio corporation

AMCO Insurance Company, an Iowa corporation
Allied Property and Casualty Insurance Company, an Iowa corporation

hereinafter referred to severally as the "Company" and collectively as "the Companies" does hereby make, constitute and appoint:

James Murray

each in their individual capacity, its true and lawful attorney-in-fact, with full power and authority to sign, seal, and execute on its behalf any and all bonds and undertakings, and other obligatory instruments of similar nature, in penalties not exceeding the sum of

Five Thousand and no/100 dollars

\$ 5,000.00

and to bind the Company thereby, as fully and to the same extent as if such instruments were signed by the duly authorized officers of the Company; and all acts of said Attorney pursuant to the authority given are hereby ratified and confirmed.

This power of attorney is made and executed pursuant to and by authority of the following resolution duly adopted by the board of directors of the Company:

"RESOLVED, that the president, or any vice president be, and each hereby is, authorized and empowered to appoint attorneys-in-fact of the Company, and to authorize them to execute and deliver on behalf of the Company any and all bonds, forms, applications, memorandums, undertakings, recognizances, transfers, contracts of indemnity, policies, contracts guaranteeing the fidelity of persons holding positions of public or private trust, and other writings obligatory in nature that the business of the Company may require; and to modify or revoke, with or without cause, any such appointment or authority; provided, however, that the authority granted hereby shall in no way limit the authority of other duly authorized agents to sign and countersign any of said documents on behalf of the Company."

"RESOLVED FURTHER, that such attorneys-in-fact shall have full power and authority to execute and deliver any and all such documents and to bind the Company subject to the terms and limitations of the power of attorney issued to them, and to affix the seal of the Company thereto; provided, however, that said seal shall not be necessary for the validity of any such documents."

This power of attorney is signed and sealed under and by the following bylaws duly adopted by the board of directors of the Company.

Execution of Instruments. Any vice president, any assistant secretary or any assistant treasurer shall have the power and authority to sign or attest all approved documents, instruments, contracts, or other papers in connection with the operation of the business of the company in addition to the chairman of the board, the chief executive officer, president, treasurer or secretary; provided, however, the signature of any of them may be printed, engraved, or stamped on any approved document, contract, instrument, or other papers of the Company.

IN WITNESS WHEREOF, the Company has caused this instrument to be sealed and duly attested by the signature of its officer the 16th day of February, 2017.

Antonio C. Albanese, Vice President of Nationwide Mutual Insurance Company, National Casualty Company, AMCO Insurance Company, Allied Property and Casualty Insurance Company

ACKNOWLEDGMENT

STATE OF NEW YORK, COUNTY OF NEW YORK: ss

On this 16th day of February, 2017, before me came the above-named officer for the Company aforesaid, to me personally known to be the officer described in and who executed the preceding instrument, and he acknowledged the execution of the same, and being by me duly sworn, deposes and says, that he is the officer of the Company aforesaid, that the seal affixed hereto is the corporate seal of said Company, and the said corporate seal and his signature were duly affixed and subscribed to said instrument by the authority and direction of said Company.

BARRY T. BASSIS
Notary Public, State of New York
No. 02BA4656400
Qualified in New York County
Commission Expires April 30, 2019

Notary Public
My Commission Expires
April 30, 2019

CERTIFICATE

I, Parag H. Shah, Assistant Secretary of the Company, do hereby certify that the foregoing is a full, true and correct copy of the original power of attorney issued by the Company; that the resolution included therein is a true and correct transcript from the minutes of the meetings of the boards of directors and the same has not been revoked or amended in any manner; that said Antonio C. Albanese was on the date of the execution of the foregoing power of attorney the duly elected officer of the Company, and the corporate seal and his signature as officer were duly affixed and subscribed to the said instrument by the authority of said board of directors; and the foregoing power of attorney is still in full force and effect.

IN WITNESS WHEREOF, I have hereunto subscribed my name as Assistant Secretary, and affixed the corporate seal of said Company this 21st day of April, 2017.

This power of attorney expires: April 30, 2019

Assistant Secretary



**FILED AND RECORDED
OFFICIAL PUBLIC RECORDS**

Laura Richard



Laura Richard, County Clerk
Fort Bend County, Texas

May 12, 2017 02:54:38 PM

FEE: \$0.00 PG1
BOND

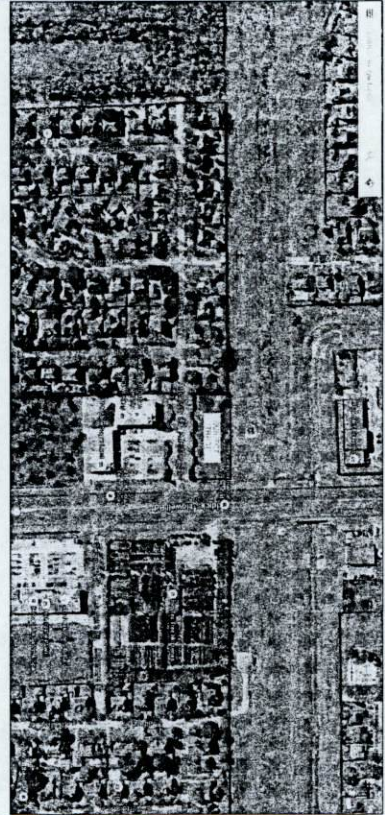
2017051641

SHEET INDEX

SHEET NO.	SHEET NAME	DESCRIPTION
1 OF 12	C-0	COVER SHEET
2 OF 12	C-01	TOPOGRAPHIC SURVEY
3 OF 12	C-02	FLAT
4 OF 12	C-10	SITE PARKING DIMENSION PLAN
5 OF 12	C-11	DRIVEWAY DETAIL AND NOTES
6 OF 12	C-21	SITE GRADING PLAN
7 OF 12	C-22	SITE DRAINAGE PLAN
8 OF 12	C-23	DRAINAGE CALCULATIONS
9 OF 12	C-31	SITE UTILITY PLAN
10 OF 12	C-41	SITE PAVING PLAN
11 OF 12	C-42	SITE PAVING DETAILS
12 OF 12	H-1	TRANSPORTATION NOTES

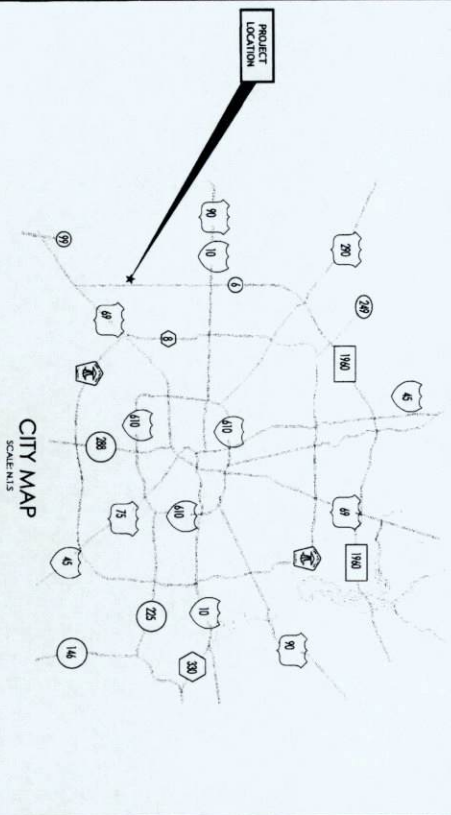
PROJECT LOCATION

**PLANS FOR THE PROPOSED
 "CRYSTAL INN"
 TWO STORY MOTEL
 LOCATED AT
 9720 HIGHWAY 6 SOUTH
 SUGAR LAND, TX 77498**



KEY MAP: 528-S
ZIP- 77498

KEY MAP



FBC ENG. SIGNATURE BLOCK

FORT BEND COUNTY ENGINEER
 ENGINEER: Chad O. Alpa
 FOR: Richard W. Stobbs, F.E.
 DATE: 12/2/16
 THESE SIGNATURES ARE VOID IF CONSTRUCTION HAS NOT COMMENCED IN (1) YEAR FROM DATE OF APPROVAL.
 APPROVED: M. Stobbs
 Development Co-ordinator
 DATE: 12/16/16

Fort Bend County Engineering
 1801 West Loop South, Suite 1000
 Houston, TX 77056, U.S.A.
 Richard W. Stobbs, F.E.
 Fort Bend County Engineer

NOTES: The undersigned hereby certifies that the information furnished herein is true and correct to the best of his knowledge and belief, and that he is duly licensed as a Professional Engineer in the State of Texas. He further certifies that the information furnished herein is true and correct to the best of his knowledge and belief, and that he is duly licensed as a Professional Engineer in the State of Texas.

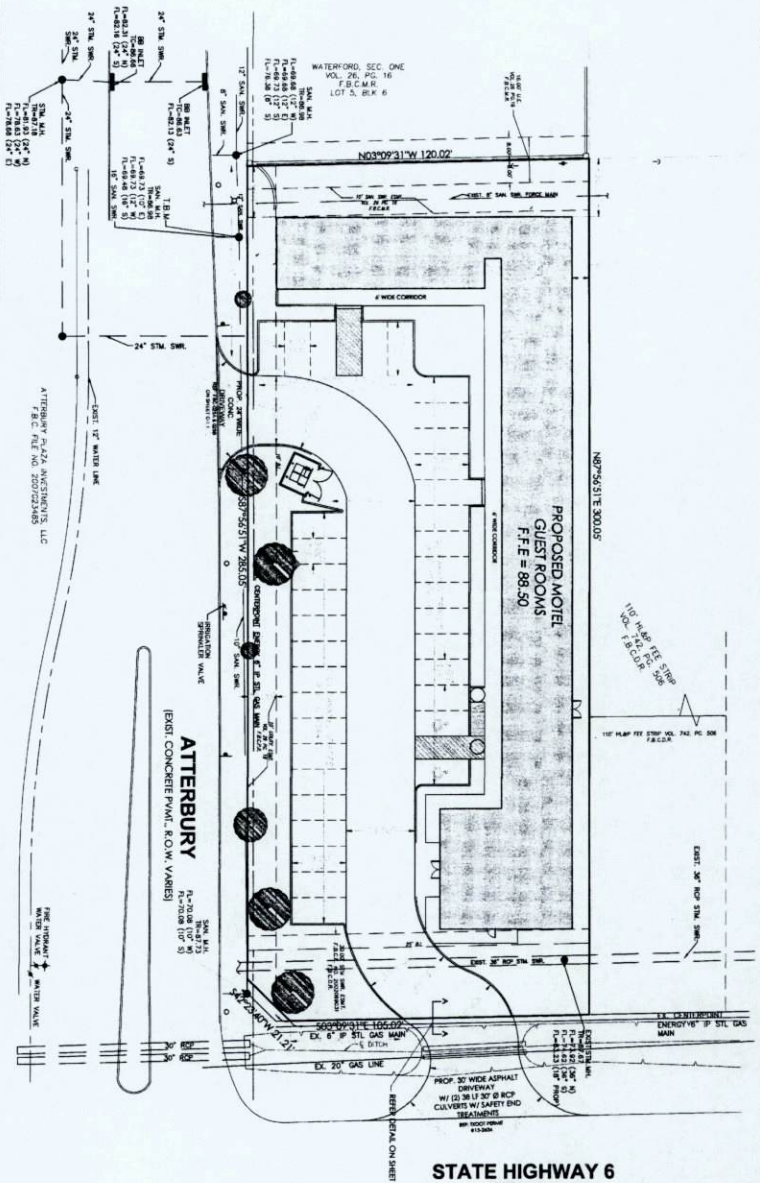
1. This plan is prepared in accordance with the provisions of the Texas Engineering Deceptive Practices Act, Chapter 552, Texas Occupations Code, and the Texas Professional Engineers Act, Chapter 551, Texas Occupations Code.
2. Construction shall comply with all applicable laws, rules, regulations, codes, and ordinances of the State of Texas and the City of Sugar Land, Texas.
3. The Engineer shall be responsible for the design and construction of the project, and shall not be responsible for the design and construction of any other project.
4. The Engineer shall be responsible for the design and construction of the project, and shall not be responsible for the design and construction of any other project.
5. All work shall be done in accordance with the provisions of the Texas Engineering Deceptive Practices Act, Chapter 552, Texas Occupations Code, and the Texas Professional Engineers Act, Chapter 551, Texas Occupations Code.
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11. Construction shall be done in accordance with the provisions of the Texas Engineering Deceptive Practices Act, Chapter 552, Texas Occupations Code, and the Texas Professional Engineers Act, Chapter 551, Texas Occupations Code.
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15. All work shall be done in accordance with the provisions of the Texas Engineering Deceptive Practices Act, Chapter 552, Texas Occupations Code, and the Texas Professional Engineers Act, Chapter 551, Texas Occupations Code.
16. All work shall be done in accordance with the provisions of the Texas Engineering Deceptive Practices Act, Chapter 552, Texas Occupations Code, and the Texas Professional Engineers Act, Chapter 551, Texas Occupations Code.

1801 West Loop South, Suite 1000
 Houston, TX 77056
 Phone: 281-533-7200

Catalyst Technical Group, Inc.
 13127 Fossil Road
 Houston, TX 77057
 Phone: 281-533-7200
 www.catalystgroup.com

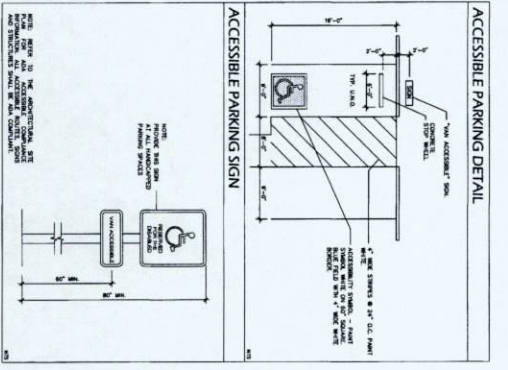
**PROP. 2 STORY MOTEL
 CRYSTAL INN
 LOCATED AT
 9720 HIGHWAY 6 SOUTH
 SUGAR LAND, TX 77498**

DATE: 11/22/2016
 GENERAL NOTES:
 CTO Project Number: 14000
 Issued Date: April 4, 2016
 Drawn By: SK
 Checked By: LAK
 Scale: N.E.S.
 Plan Title: **COVER SHEET**
 SHEET TITLE:
 SHEET NUMBER: 1 OF 12
C-0



PARKING CALCULATIONS
 PROPOSED DEVELOPMENT:
 GROSS FLOOR AREA OF THE PROPOSED DEVELOPMENT:
 PROPOSED 2 STORY MOTEL (GENERAL) 10,000 SQ. FT.
 34 SLEEPING ROOMS
 NUMBER OF PARKING SPACES REQUIRED FOR THE PROPOSED DEVELOPMENT: PER CHAPTER 26 CODE OF ORDINANCES
 1.0 SLEEPING ROOM PER SLEEPING ROOM (100 200 ROOMS)
 10,000 / 200 = 50
 NUMBER OF PROPOSED PARKING SPACES REQUIRED ON-SITE:
 50 SPACES TOTAL (25 REQUIRED & 25 ADDITIONAL)
 NUMBER OF PROPOSED PARKING SPACES PROPOSED ON-SITE:
 50 SPACES TOTAL (25 REQUIRED & 25 ADDITIONAL)
 NUMBER OF PROPOSED PARKING SPACES OFF-STREET:
 N/A

MINIMUM FINISHED FLOOR ELEVATION
 MINIMUM F.F.E. IS HIGHEST OF THE FOLLOWING:
 18" ABOVE THE LOWEST SIGNIFICANT NATURAL GROUND CONTOUR
 F.F.E. REQUIRED = 1.5 + 87.00 = 88.50
 MIN. 18" ABOVE THE NEAREST 100-YEAR FLOOD PLAIN.
 MIN. F.F.E. = 1.5 (18") + 87.00 = 88.50
 F.F.E. REQUIRED = 1.5 + 87.00 = 88.50
 MIN. 12" ABOVE THE MAXIMUM FLOODING LEVEL IN PARKING LOT.
 MIN. F.F.E. = 1.0 (12") + 87.50 = 88.50
 F.F.E. PROPOSED = 88.50



APPROVED: *[Signature]*
 Development Co-ordinator

DATE: 12/14/16

GENERAL NOTES

- CONTRACTOR TO CONTACT LONE STAR NOTIFICATION CENTER AT 713/223-4567 48-HOUR PRIOR TO COMMENCING ANY WORK ON THIS SITE.
- CONTRACTOR SHALL CONTACT SI ENVIRONMENTAL, BUILDER SERVICES AT 832/490-1810 48 HOURS PRIOR TO COMMENCING CONSTRUCTION. FOR INSPECTIONS OR WATER, SANITARY SEWER AND CONNECTIONS TO EXISTING DISTRICT FACILITIES, AND FOR COORDINATION OF NEW WATER SERVICE LINE, TAPMETER AND FOR DROP ON EXISTING SANITARY SEWER MANHOLE.
- CONTRACTOR TO OBTAIN ALL PERMITS REQUIRED BY FORT BEND COUNTY PRIOR TO COMMENCING WORK.
- CONTRACTOR SHALL CONTACT KINGSDORGE WUD ENGINEER AT 713/977-4700 48 HOURS PRIOR TO THE IN-THE-DISTRICT STORM SEWER LINES AND PRIOR TO BACKFILL OF PRIVATE STORM DRAINAGE LINES AND APPURTENANCES.

LEGEND

- EXISTING
- PROPOSED
- THEE 12'-15" PECAN
- THEE 12'-15" PECAN

PROJECT TITLE
 PROP. 2 STORY MOTEL
 CRYSTAL INN
 LOCATED AT
 9720 HIGHWAY 6 SOUTH
 SUGAR LAND, TX 77498

DATE: 11/2/2016

GENERAL NOTES:

CTD Project Number: 15000

Issue Date: 11/2/2016

Drawn By: [Name]

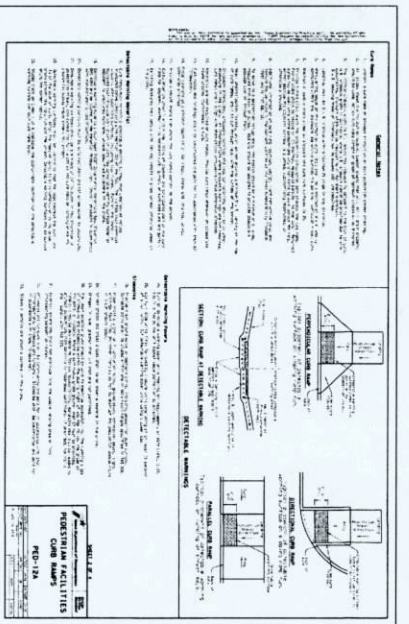
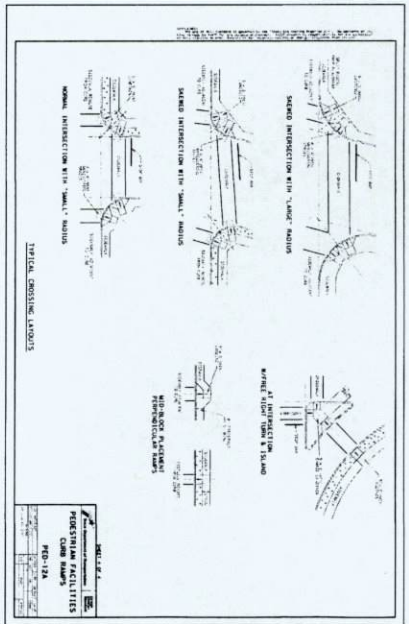
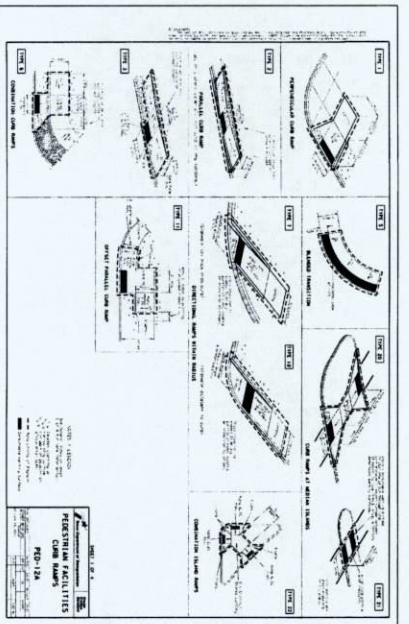
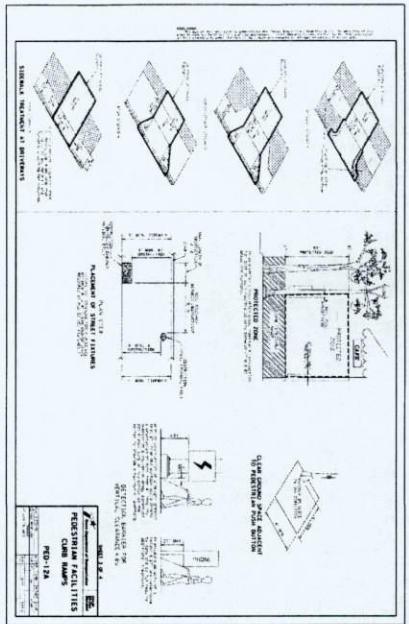
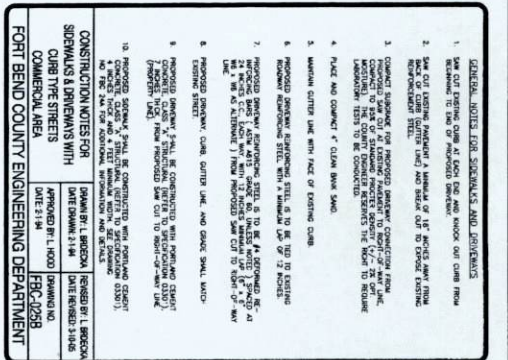
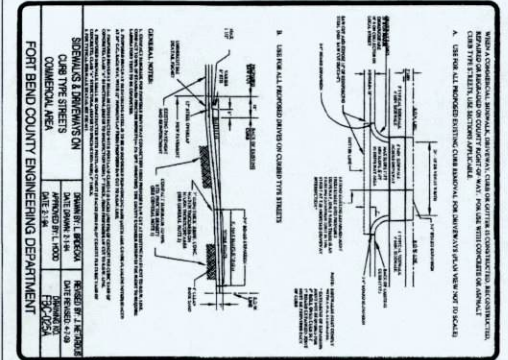
Checked By: [Name]

Scale: 1"=20'

Plan Title: SITE PARKING DIMENSION PLAN

SHEET NUMBER: 4 OF 12

C-1.0



APPROVED: *[Signature]*
 DEVELOPER'S Co-ordinator
 DATE: 12/15/16

PROJECT TITLE: **PROP. 2 STORY MOTEL CRYSTAL INN LOCATED AT 9720 HIGHWAY 6 SOUTH SUGAR LAND, TX 77498**

DATE: 11/27/2016

GENERAL NOTES:

DATE: 11/27/2016

GENERAL NOTES:

DATE: 11/27/2016

GENERAL NOTES:

DATE: 11/27/2016

GENERAL NOTES:

DATE: 11/27/2016

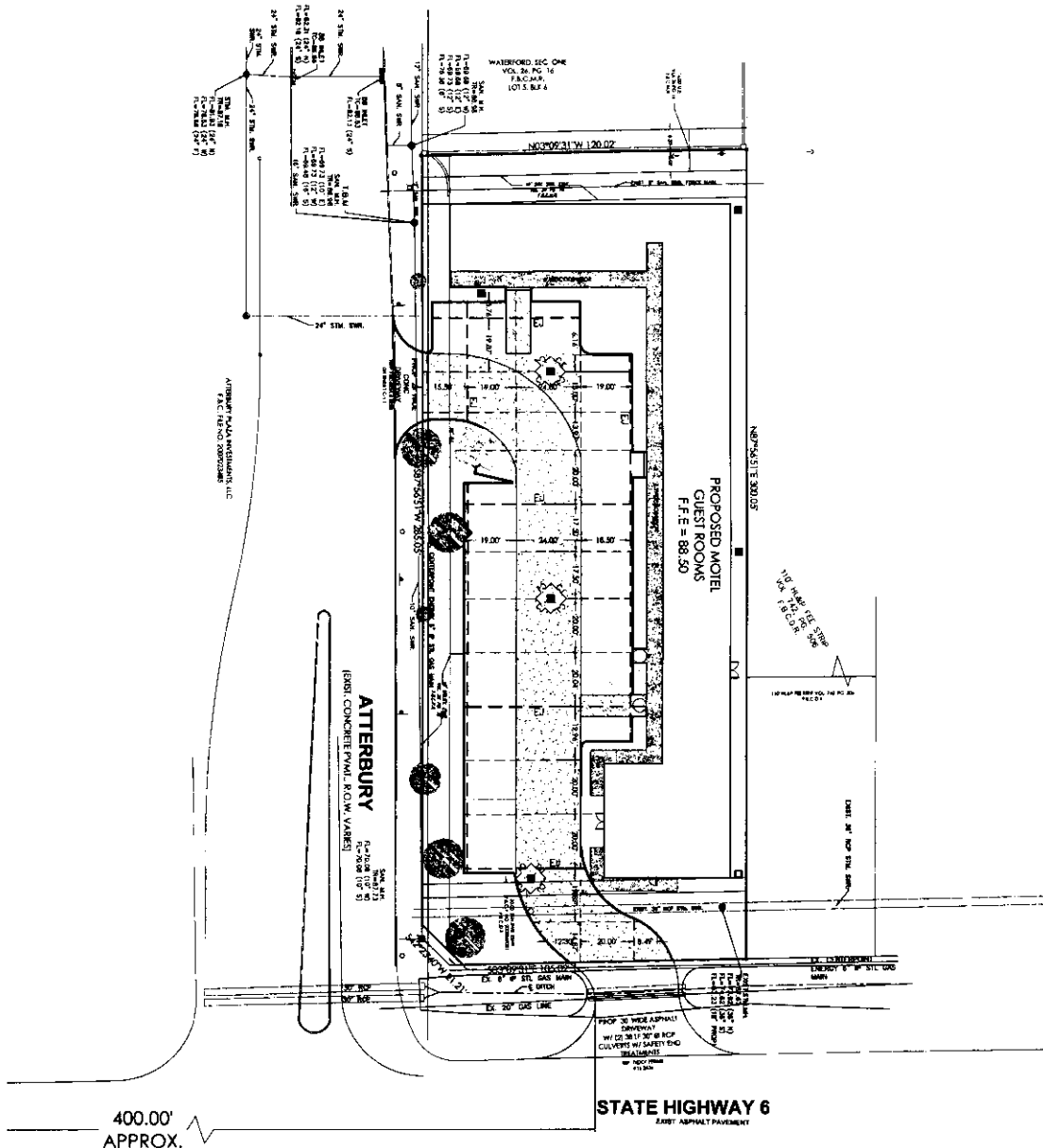
GENERAL NOTES:

DATE: 11/27/2016

GENERAL NOTES:

DATE: 11/27/2016

GENERAL NOTES:



LEGEND	
	4" WALK
	6" PARKING PAVT
	MIN. 6" FIRELANE PAVT
	7" DUMPSTER PAVT
	EXPANSION JOINT
	CONSTRUCTION JOINT

GENERAL NOTES
REFER TO SHEET C-4.2 FOR PAVING NOTES & DETAILS

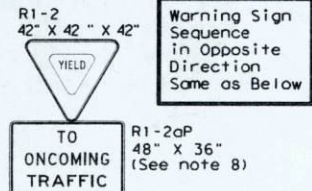
PROP. 2 STORY MOTEL
CRYSTAL INN
LOCATED AT
9720 HIGHWAY 6 SOUTH
SUGAR LAND, TX 77498



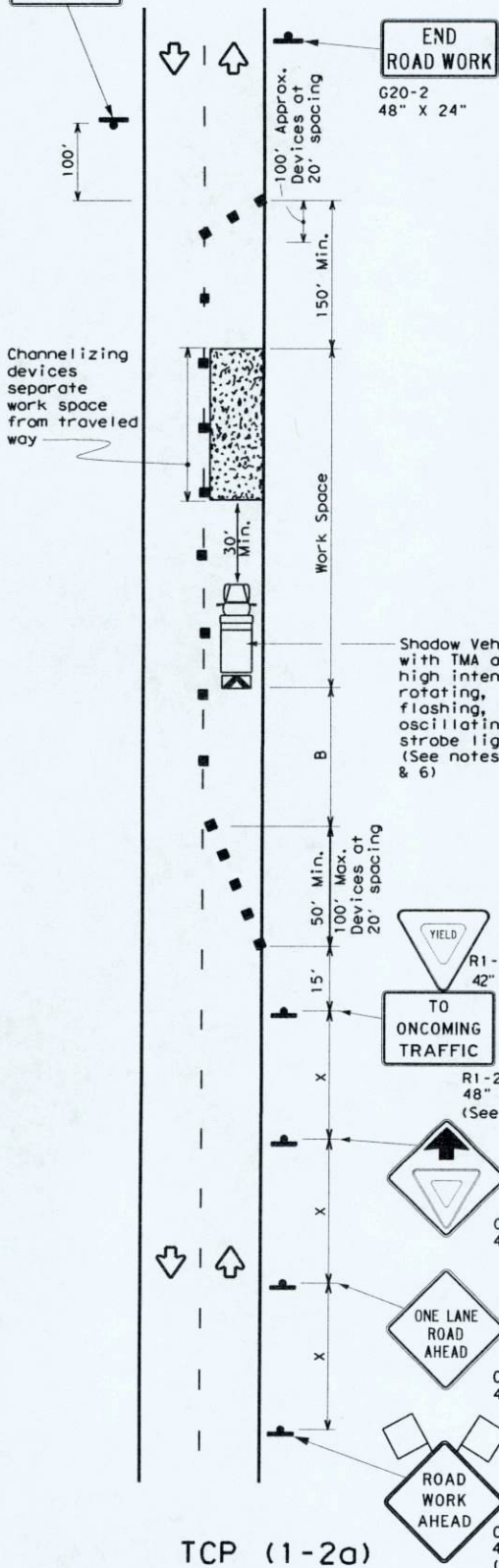
DATE: 11/2/2016
GENERAL NOTES

PROJECT NUMBER	15000
DATE	11/2/2016
PROJECT TITLE	PROP. 2 STORY MOTEL GUEST ROOMS
SHEET NUMBER	C-4.1
DATE	11/2/2016
PROJECT TITLE	PROP. 2 STORY MOTEL GUEST ROOMS
SHEET NUMBER	C-4.1

Maggie 12/19



Warning Sign Sequence in Opposite Direction Same as Below



LEGEND			
	Type 3 Barricade		Channelizing Devices
	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)
	Trailer Mounted Flashing Arrow Board		Portable Changeable Message Sign (PCMS)
	Sign		Traffic Flow
	Flag		Flagger

Posted Speed *	Formula	Minimum Desirable Taper Lengths **			Suggested Maximum Spacing of Channelizing Devices		Minimum Sign Spacing "x" Distance	Suggested Longitudinal Buffer Space "B"	Stopping Sight Distance
		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent			
30	L = WS ² / 60	150'	165'	180'	30'	60'	120'	90'	200'
35		205'	225'	245'	35'	70'	160'	120'	250'
40		265'	295'	320'	40'	80'	240'	155'	305'
45	L = WS	450'	495'	540'	45'	90'	320'	195'	360'
50		500'	550'	600'	50'	100'	400'	240'	425'
55		550'	605'	660'	55'	110'	500'	295'	495'
60		600'	660'	720'	60'	120'	600'	350'	570'
65		650'	715'	780'	65'	130'	700'	410'	645'
70		700'	770'	840'	70'	140'	800'	475'	730'
75		750'	825'	900'	75'	150'	900'	540'	820'

* Conventional Roads Only
 ** Taper lengths have been rounded off.
 L=Length of Taper (FT) W=Width of Offset (FT) S=Posted Speed (MPH)

TYPICAL USAGE				
MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY
	✓	✓		

GENERAL NOTES

- Flags attached to signs where shown are REQUIRED.
- All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated elsewhere in the plans, or for routine maintenance work, when approved by the Engineer.
- The CW3-4 "BE PREPARED TO STOP" sign may be installed after the CW20-4D "ONE LANE ROAD AHEAD" sign, but proper sign spacing shall be maintained.
- Sign spacing may be increased or an additional CW20-1D "ROAD WORK AHEAD" sign may be used if advance warning ahead of the flagger or R1-2 "YIELD" sign is less than 1500 feet.
- A Shadow Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to remain in place, Type 3 Barricades or other channelizing devices may be substituted for the Shadow Vehicle and TMA.
- Additional Shadow Vehicles with TMAs may be positioned off the paved surface, next to those shown in order to protect wider work spaces.

TCP (1-2a)

- R1-2 "YIELD" sign traffic control may be used on projects with approaches that have adequate sight distance. For projects in urban areas, work spaces should be no longer than one half city block. In rural areas on roadways with less than 2000 ADT, work spaces should be no longer than 400 feet.
- R1-2 "YIELD" sign with R1-2aP "TO ONCOMING TRAFFIC" plaque shall be placed on a support at a 7 foot minimum mounting height.

For construction or maintenance contract work, specific project requirements for shadow vehicles can be found in the project GENERAL NOTES for Item 502, Barricades, Signs and Traffic Handling.

Texas Department of Transportation
 Traffic Operations Division
 Standard

TRAFFIC CONTROL PLAN
ONE-LANE TWO-WAY
TRAFFIC CONTROL
TCP (1-2) - 12

ONE LANE TWO-WAY CONTROL WITH YIELD SIGNS
 (Less than 2000 ADT - See note 7)

LEGEND			
	Type 3 Barricade		Channelizing Devices
	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)
	Trailer Mounted Flashing Arrow Board		Portable Changeable Message Sign (PCMS)
	Sign		Traffic Flow
	Flag		Flagger

Posted Speed *	Formula	Minimum Desirable Taper Lengths **			Suggested Maximum Spacing of Channelizing Devices		Minimum Sign Spacing "x" Distance	Suggested Longitudinal Buffer Space "B"	Stopping Sight Distance
		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent			
30	$L = \frac{WS^2}{60}$	150'	165'	180'	30'	60'	120'	90'	200'
35		205'	225'	245'	35'	70'	160'	120'	250'
40		265'	295'	320'	40'	80'	240'	155'	305'
45		450'	495'	540'	45'	90'	320'	195'	360'
50	L = WS	500'	550'	600'	50'	100'	400'	240'	425'
55		550'	605'	660'	55'	110'	500'	295'	495'
60		600'	660'	720'	60'	120'	600'	350'	570'
65		650'	715'	780'	65'	130'	700'	410'	645'
70		700'	770'	840'	70'	140'	800'	475'	730'
75		750'	825'	900'	75'	150'	900'	540'	820'

* Conventional Roads Only
 ** Taper lengths have been rounded off.
 L=Length of Taper (FT) W=Width of Offset (FT) S=Posted Speed (MPH)

TYPICAL USAGE				
MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY
	✓	✓		

GENERAL NOTES

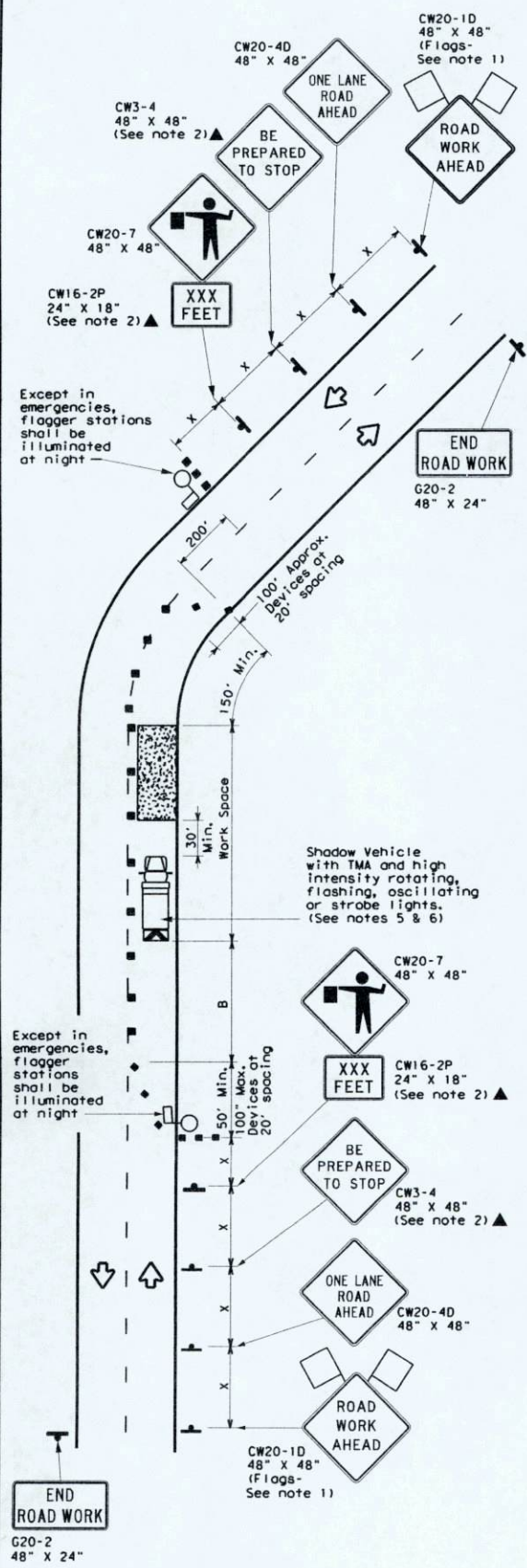
- Flags attached to signs where shown are REQUIRED.
- All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated elsewhere in the plans, or for routine maintenance work, when approved by the Engineer.
- The CW3-4 "BE PREPARED TO STOP" sign may be installed after the CW20-4D "ONE LANE ROAD AHEAD" sign, but proper sign spacing shall be maintained.
- Sign spacing may be increased or an additional CW20-1D "ROAD WORK AHEAD" sign may be used if advance warning ahead of the flagger or R1-2 "YIELD" sign is less than 1500 feet.
- A Shadow Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to remain in place, Type 3 Barricades or other channelizing devices may be substituted for the Shadow Vehicle and TMA.
- Additional Shadow Vehicles with TMAs may be positioned off the paved surface, next to those shown in order to protect wider work spaces.

7 & 8 See TCP(1-2)-12, sheet 1 of 2. (Not relevant to this sheet)

TCP (1-2b)

- Flaggers should use two-way radios or other methods of communication to control traffic.
- Length of work space should be based on the ability of flaggers to communicate.
- If the work space is located near a horizontal or vertical curve, the buffer distances should be increased in order to maintain adequate stopping sight distance to the flagger and a queue of stopped vehicles (see table above).
- Channelizing devices on the center-line may be omitted when a pilot car is leading traffic and approved by the Engineer.
- Flaggers should use 24" STOP/SLOW paddles to control traffic. Flags should be limited to emergency situations.

For construction or maintenance contract work, specific project requirements for shadow vehicles can be found in the project GENERAL NOTES for Item 502, Barricades, Signs and Traffic Handling.



TCP (1-2b)
**ONE LANE TWO-WAY
 CONTROL WITH FLAGGERS**

	Traffic Operations Division Standard
	TRAFFIC CONTROL PLAN ONE-LANE TWO-WAY TRAFFIC CONTROL TCP(1-2)-12