



STATE OF DELAWARE
DEPARTMENT OF TRANSPORTATION
PO BOX 778
DOVER, DELAWARE 19903

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GOVERNOR

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SECRETARY

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January 29, 2016

Contract No. T201253105.01
Federal Aid Project No. DE-90-X035
Churchman's Crossing Fairplay Station Elevator
New Castle County

Ladies and Gentlemen:

Enclosed is Addendum No. 6 for the referenced contract consisting of the following:

1. The Bid Proposal Cover, revised, to be substituted for the same page in the Proposal.
2. One (1) page, Plan Sheet 13, revised, to be substituted for the same page in the Proposal.

Please note the revision listed above and submit your bid based upon this information.

Sincerely,

signature on file

James H. Hoagland
Contract Services Administrator

:jhh
Enclosure

STATE OF DELAWARE



DEPARTMENT OF TRANSPORTATION

BID PROPOSAL

for

CONTRACT T201253105.01

FEDERAL AID PROJECT NO. DE-90-X035

CFDA NO. 20.507

CHURCHMAN'S CROSSING FAIRPLAY STATION ELEVATOR

NEW CASTLE COUNTY

ADVERTISEMENT DATE: December 21, 2015

PROSPECTIVE BIDDERS ARE ADVISED THAT THERE WILL BE A MANDATORY PRE-BID MEETING
MONDAY JANUARY 4, 2016 AT 2:30 P.M. IN THE DeIDOT ADMINISTRATION BUILDING,
800 BAY ROAD, DOVER, DELAWARE, 19903.

COMPLETION TIME: 110 Calendar Days

SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION
DELAWARE DEPARTMENT OF TRANSPORTATION
AUGUST 2001

Bids will be received in the Bidder's Room at the Delaware Department of Transportation's Administration Building, 800 Bay Road, Dover, Delaware until 2:00 P.M. local time ~~January 19, 2016~~ ~~January 26, 2016~~ **February 9, 2016**

DESIGN LOAD SCHEDULE				
(ALL LOADS SHOWN ARE IN POUNDS PER SQFT)				
COMPONENT	AREA			
	SUB-ON GRADE	FLOOR	ROOF	
CONCRETE SLAB	100	75		
ROOF & INSULATION			10	
STEEL & JOIST		5	5	
CEILING				
COLLATERAL		10	10	
TOTAL DEAD LOAD	100	90	25	
TOTAL LIVE LOAD	150	100	30	
TOTAL LOAD	250	190	55	

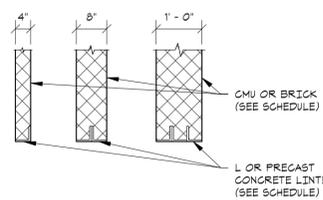
SNOW LOAD DESIGN SCHEDULE			
2006 INTERNATIONAL BUILDING CODE			
ITEM	SYMBOL	VALUE	REFERENCE
GROUND SNOW LOAD	P_g	30 PSF	FIGURE 1602.2
SNOW EXPOSURE FACTOR	C_e	0.9	TABLE 7.2 (ASCE-7)
SNOW LOAD IMPORTANCE FACTOR	I_s	1.0	TABLE 7.4 (ASCE-7)
THERMAL FACTOR	C_t	1.0	FIGURE 7.3 (ASCE-7)
FLAT-ROOF SNOW LOAD	P_f	20 PSF	SECTION 7.3 (ASCE-7)

LATERAL LOAD DESIGN SCHEDULE			
2006 INTERNATIONAL BUILDING CODE			
WIND LOAD			
ITEM	SYMBOL	VALUE	REFERENCE
BASIC WIND SPEED	V_{30}	90 mph	FIGURE 1604
OCCUPANCY CATEGORY	-	I	FIGURE 1604.5
WIND LOAD IMPORTANCE	I_w	1.0	TABLE 6-1 (ASCE 7)
WIND EXPOSURE CATEGORY	-	C	SECTION 1604.4
DESIGN PROCEDURE	-	SIMPLIFIED	SECTION 6-4 (ASCE 7)
MAIN WIND FORCE PRESSURE	P_s	20 psf	SECTION 6.4.2.1 (ASCE 7)
COMP/GLAD. WIND PRESSURE	P_{net}	20 psf	SECTION 6.4.2.2 (ASCE 7)

SEISMIC LOAD			
ITEM	SYMBOL	VALUE	REFERENCE
SITE CLASS	-	D	SECTION 1613.3
MAPPED SPECTRAL RESPONSE ACCELERATION	S_s	0.27	SECTION 1613.5 (1)
MAPPED SPECTRAL RESPONSE ACCELERATION (1 SEC. - RESPONSE)	S_1	.065	SECTION 1613.5 (2)
DESIGN SPECTRAL RESPONSE ACCELERATION	S_{DS}	0.29	SECTION 1613.5.4
DESIGN SPECTRAL RESPONSE ACCELERATION (1 SEC. - RESPONSE)	S_{D1}	0.104	SECTION 1613.5.4
OCCUPANCY CATEGORY	-	II	SECTION 1604.5
SEISMIC DESIGN CATEGORY	-	B	TABLE 1613.5.6
SEISMIC IMPORTANCE FACTOR	I_e	1.0	TABLE 11.5-1 (ASCE 7)
DESIGN BASE SHEAR	-	208 K	TABLE 12.8.1 (ASCE 7)
ANALYSIS PROCEDURE	-	EQUIVALENT LATERAL FORCE	TABLE 12.8 (ASCE 7)
BASIC STRUCTURAL SYSTEM	-	BUILDING FRAME SYSTEMS	TABLE 12.2-1 (ASCE 7)
BASIC SEISMIC-FORCE-RESISTING SYSTEM	-	ORDINARY PLAIN MASONRY SHEARWALLS	TABLE 12.2-1 (ASCE 7)
SEISMIC RESPONSE COEFFICIENT	C_s	0.15	TABLE 12.8.1.1 (ASCE 7)
RESPONSE MOD. FACTOR	R	1.5	TABLE 12.2-1 (ASCE 7)

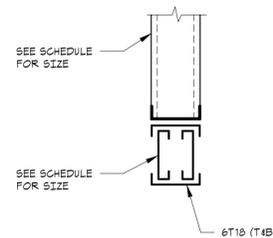
CONCRETE BEAM SCHEDULE					
MARK	SIZE	TOP BARS	BOTT. BARS	MID BARS	SIZE & SPACING
CB1	24" x 24"	(4) #6	(4) #6	(2) #6	#3 @ 12" O/C
CB2	12" x 24"	(2) #6	(2) #6	(4) #6	#3 @ 12" O/C

GRADE BEAM SCHEDULE					
MARK	SIZE	TOP BARS	BOTT. BARS	MID BARS	SIZE & SPACING
GB1	24" x 24"	(4) #6	(4) #6	(2) #6	#3 @ 12" O/C
GB2	4'-6" W. x 24" T.	SEE SECT.	SEE SECT.	SEE SECT.	#3 @ 24" O/C

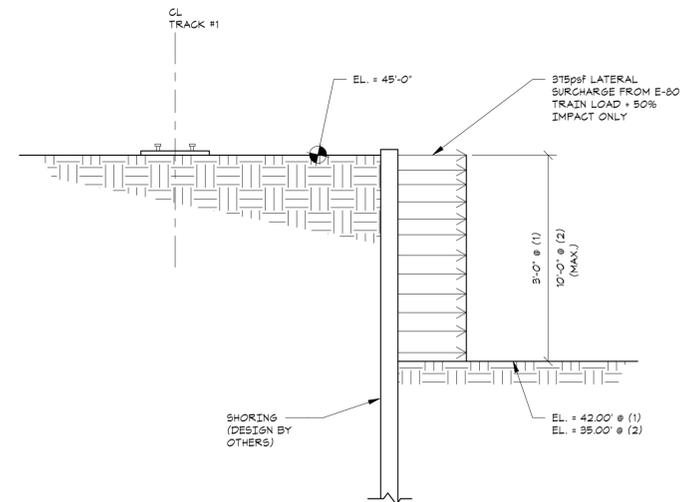


CONCRETE/ STEEL LINTEL SCHEDULE			
(4", 6", & 12" NON-BEARING CMU & BRICK WALLS)			
WIDTH OF OPENING	STEEL FOR EACH 4" OF WALL THICKNESS	REINF. CONC. FOR EACH 4" OF WALL THICKNESS	REMARKS
UP TO 2'-11"	L 3 1/2 x 3 1/2 x 5/16	(1) #4 TOP & BOTTOM	
3'-0" TO 3'-11"	L 4 x 3 1/2 x 5/16	(1) #4 TOP & BOTTOM	
4'-0" TO 5'-11"	L 5 x 3 1/2 x 5/16	(1) #4 TOP & BOTTOM	
6'-0" TO 8'-0"	L 6 x 3 1/2 x 5/16	(1) #5 TOP & BOTTOM	

NOTES:
 1) ALL CONCRETE LINTELS SHALL BE 4000 PSI CONCRETE @ 28 DAYS WITH GRADE 60 REINFORCING.
 2) ALL STEEL LINTELS SHALL BE ASTM A-36.
 3) FILL CMU VOIDS SOLID (2) COURSES BELOW LINTEL BEARING.
 4) ALL LINTELS SHALL HAVE 6" MINIMUM BEARING UNO.



METAL STUD HEADER SCHEDULE		
(NON-BEARING WALLS)		
WIDTH OF OPENING	METAL STUD LINTEL SIZE	JAMB STUDS
UP TO 7'-0"	(2) 65M16	(2) STUDS
7'-0" TO 10'-0"	(2) 85M14	(2) STUDS
10'-0" TO 12'-0"	(2) 105M14	(2) STUDS



Shoring Loading Design Parameters

NOTES:
 1) LATERAL PRESSURES SHOWN ARE FROM COOPERS E-80 + 50% IMPACT TRAIN LOADS.
 2) SHORING CONTRACTOR TO DESIGN SHORING INCLUDING LOADING w/ ADJACENT TRAIN INFLUENCE AS REQ'D.
 3) LOADS SHOWN ARE FOR INFLUENCE OF TRAIN LOADS ONLY. SOIL LOADS & ADD'L LIVE LOADS SHOULD BE ACCOMMODATED IN ADDITION AS REQ'D FOR SHORING DETAIL.

CONCRETE PIER SCHEDULE				
MARK	DIMENSIONS		REINFORCING	
	WIDTH	DEPTH	VERTICAL TIES	REMARKS
P1	2' - 0"	2' - 0"	(8) #8	#3 @ 12" O/C

STEEL COLUMN SCHEDULE				
MARK	SIZE	BASE PLATES AND ANCHOR BOLTS		
		BASE PLATE SIZE/ REINF.	ANCHOR BOLTS/ TIES	REMARKS
C1	H558X5/16	3/4" x 14" x 1'-2"	(4) 3/4"Ø	



DELAWARE
DEPARTMENT OF
TRANSPORTATION

ADDENDUMS / REVISIONS

1	01/25/2013	90% SUBMISSION
2	12/15/2014	PS&E SUBMISSION
3	11/16/2015	CONSTRUCTION PLANS
4	1/22/2016	REVISION

SCALE: As indicated

Churchman's Crossing Fairplay
Station Elevator

CONTRACT	BRIDGE NO.	N/A
T201253105	DRAWN BY:	JNR
COUNTY	CHECKED BY:	JRB
NEW CASTLE		

SCHEDULES

SHEET NO.	13
TOTAL SHTS.	31