



**Professional Engineers & Land Surveyors**

130 E. PARK AVENUE • PHARR, TEXAS 78577

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Engineering Firm F - 486 • Surveying Firm #101650-00

Invoice Number 3301

Date 3/6/2013

Due on receipt

# Invoice

Hidalgo County Precinct No. 2  
 Hector "Tito" Palacios  
 300 W. Hall Acres  
 Suite G  
 Pharr, TX 78577

**Project: Tower Rd-Part II (Rancho Blanco to Balli)**

Const. Cost  
 % of Const. Cost  
 Billing Fee 608,466.00

Project No.: ENG05.015b  
 Contract No.: C-05-229-06-21(WA#2)  
 PO No. 561453

<u>Phase</u>	<u>Phase Fee</u>	<u>% Complete</u>	<u>Fee Earned</u>	<u>Prior Billing</u>	<u>Current Fee</u>
Preliminary Phase	269,733.00	100.00%	4269,733.00	219,226.00	50,507.00
Design Phase	161,840.00	92.50%	149,702.00	111,805.00	37,897.00
Construction Phase	107,893.00	0.00%			0.00
Environmental Assessment	34,000.00	15.43%	5,247.00	5,247.00	0.00
Right-of-Way Aquisition	24,200.00	100.00%	24,200.00	24,200.00	0.00
Geotechnical Investigation	10,800.00	0.00%			0.00

PO # 561453  
3-1200-431-00-122-~~027~~-0-731  
 Req # 0082579

INVOICE RECEIVED BY:  
E. Lopez Palacios ON 3/7/13  
 GOODS/SERVICES RECEIVED BY:  
Hector "Tito" Palacios ON 3/6/13

**Balance Due** HA **\$88,404.00**

TASK	TOTAL CONTRACT AMOUNT	FEE BREAKDOWN					
		PART 1 WORK Moore Rd - Rancho Blanco Rd			PART 2 WORK Rancho Blanco Rd - Balli Rd		
		Fee Amount	% Comp	Fee Earned	Fee Amount	% Comp	Fee Earned
PRELIMINARY PHASE (50% of Fee)							
FIELD & AERIAL SURVEYING	\$116,738	\$35,818	100%	\$35,818	\$80,920	100%	\$80,920
SCHEMATIC DESIGN	\$272,388	\$83,575	100%	\$83,575	\$188,813	100%	\$188,813
<b>SUB-TOTAL</b>	<b>\$389,126</b>	<b>\$119,393</b>	<b>100%</b>	<b>\$119,393</b>	<b>\$269,733</b>	<b>100%</b>	<b>\$269,733</b>
DESIGN PHASE (30% of Fee)							
SURVEYING - FIELD VERIFICATION	\$58,369	\$17,909	100%	\$17,909	\$40,460	100%	\$40,460
ENGINEERING	\$175,107	\$53,727	100%	\$53,727	\$121,380	90%	\$109,242
<b>SUB-TOTAL</b>	<b>\$233,476</b>	<b>\$71,636</b>	<b>100%</b>	<b>\$71,636</b>	<b>\$161,840</b>	<b>93%</b>	<b>\$149,702</b>
CONSTRUCTION PHASE (20% of Fee)							
CONSTRUCTION ADMINISTRATION	\$155,650	\$47,757	100%	\$47,757	\$107,893	0%	\$0
<b>SUB-TOTAL</b>	<b>\$155,650</b>	<b>\$47,757</b>	<b>100%</b>	<b>\$47,757</b>	<b>\$107,893</b>	<b>0%</b>	<b>\$0</b>
<b>TOTAL BASIC ENGINEERING FEES</b>	<b>\$778,252</b>	<b>\$238,786</b>	<b>100%</b>	<b>\$238,786</b>	<b>\$539,466</b>	<b>78%</b>	<b>\$419,435</b>
ENVIRONMENTAL ASSESSMENT (Add'l Service)							
ENVIRONMENTAL ASSESSMENT	\$40,000	\$16,000	0%	\$0	\$24,000	22%	\$5,247
PUBLIC MEETINGS	\$20,000	\$10,000	0%	\$0	\$10,000	0%	\$0
<b>SUB-TOTAL</b>	<b>\$60,000</b>	<b>\$26,000</b>	<b>0%</b>	<b>\$0</b>	<b>\$34,000</b>	<b>15%</b>	<b>\$5,247</b>
RIGHT-OF-WAY ACQUISITION (Add'l Service)							
R.O.W. MAP	\$60,200	\$36,000	100%	\$36,000	\$24,200	100%	\$24,200
<b>SUB-TOTAL</b>	<b>\$60,200</b>	<b>\$36,000</b>	<b>100%</b>	<b>\$36,000</b>	<b>\$24,200</b>	<b>100%</b>	<b>\$24,200</b>
GEOTECHNICAL INVESTIGATION (Add'l Service)							
GEOTECHNICAL INVESTIGATION	\$18,000	\$7,200	30%	\$2,186	\$10,800	0%	\$0
<b>SUB-TOTAL</b>	<b>\$18,000</b>	<b>\$7,200</b>	<b>30%</b>	<b>\$2,186</b>	<b>\$10,800</b>	<b>0%</b>	<b>\$0</b>
<b>TOTAL ADDITIONAL SERVICES</b>	<b>\$138,200</b>	<b>\$69,200</b>	<b>55%</b>	<b>\$38,186</b>	<b>\$69,000</b>	<b>43%</b>	<b>\$29,447</b>
<b>TOTAL ESTIMATED FEE</b>	<b>\$916,452</b>	<b>\$307,986</b>	<b>90%</b>	<b>\$276,972</b>	<b>\$608,466</b>	<b>74%</b>	<b>\$448,882</b>
Part I - Basic Fee Based on 10.5% of Estimated Construction Cost of :							\$2,274,150
For a Base Engineering Fee of :					\$238,786		
Part II - Basic Fee Based on 10.5% of Estimated Construction Cost of :							\$5,137,776
For a Base Engineering Fee of :					\$539,466		

Floodway Crossing

**Project Name:** Tower Rd - Part 2

Project Length: 1.67 8,838 LF

Project Limits:

From: Rancho Blanco Road  
To: Juan Balli Road

Item	Item Description	Quantity	Unit	Unit Cost	Total Cost
100	Prep R.O.W.	87.60	Sta	\$ 500.00	\$ 43,800.00
110	Rdwy Excavation	21,086.00	CY	\$ 5.00	\$ 105,430.00
132	Embankment (Rdwy) (Moist Cond 8")	128,956.00	CY	\$ 5.00	\$ 644,780.00
132	Embankment (Channel)	16,052.00	CY	\$ 5.25	\$ 84,273.00
132	Embankment (Levee)	99,657.00	CY	\$ 10.00	\$ 996,570.00
160	Levee Top Soil (6")	3,670.00	SY	\$ 4.50	\$ 16,515.00
164	Cell Fib Mulch Seed (Temp)(Warm)	58,836.00	SY	\$ 0.60	\$ 35,301.60
164	Cell Fib Mulch Seed (Temp)(Cool)	28,836.00	SY	\$ 0.60	\$ 17,301.60
164	Cell Fib Mulch Seed (Perm)	117,672.00	SY	\$ 0.60	\$ 70,603.20
247	Flex Base (14")	16,258.00	CY	\$ 20.75	\$ 337,353.50
262	Lime Treat Base (14")	41,806.00	SY	\$ 2.10	\$ 87,792.60
262	Lime	550.00	Ton	\$ 230.00	\$ 126,500.00
310	Asph Mat'l	11,789.00	Gal	\$ 4.60	\$ 54,229.40
340	Hot Mix (3")	6,789.00	Ton	\$ 80.00	\$ 543,120.00
400	Cement Stab Backfill	125.50	CY	\$ 30.00	\$ 3,765.00
402	Trench Excav Protection	6,794.00	LF	\$ 1.20	\$ 8,152.80
432	Conc. Riprap (4")	515.50	CY	\$ 250.00	\$ 128,875.00
432	Conc. Riprap (5")	68.00	CY	\$ 290.00	\$ 19,720.00
432	Conc. Riprap (4") (Mow Strip)	100.00	CY	\$ 250.00	\$ 25,000.00
464	RCP (CL III)(18")	1,392.00	LF	\$ 37.00	\$ 51,504.00
464	RCP (CL III)(24")	736.00	LF	\$ 43.50	\$ 32,016.00
464	RCP (CL III)(30")	559.00	LF	\$ 56.00	\$ 31,304.00
464	RCP (CL III)(36")	1,018.00	LF	\$ 74.00	\$ 75,332.00
464	RCP (CL III)(48")	780.00	LF	\$ 90.00	\$ 70,200.00
464	RCP (CL III)(54")	1,351.00	LF	\$ 125.00	\$ 168,875.00
464	RCP (CL III)(60")	1,070.00	LF	\$ 145.00	\$ 155,150.00
465	Inlet (Ty C)	14.00	EA	\$ 3,400.00	\$ 47,600.00
465	Inlet (Ty CC)	4.00	EA	\$ 4,200.00	\$ 16,800.00
465	Manhole Ty "M"	5.00	EA	\$ 4,900.00	\$ 24,500.00
465	Manhole Ty "M" (w/Grate)	5.00	EA	\$ 4,900.00	\$ 24,500.00
467	Safety End Treatment (18") (6:1)	20.00	EA	\$ 700.00	\$ 14,000.00
500	Mobilization	1.00	LS	\$ 290,000.00	\$ 290,000.00
502	Barricades	16.00	Mo	\$ 1,000.00	\$ 16,000.00
506	Const Exits (Ty II) (Install)	336.00	SY	\$ 26.00	\$ 8,736.00
506	Const Exits (Remove)	336.00	SY	\$ 13.00	\$ 4,368.00
506	Temp Sedmt Control Fence	504.00	LF	\$ 4.50	\$ 2,268.00
529	Mountable Conc. Curb	5,437.00	LF	\$ 9.25	\$ 50,292.25
530	Driveways (Asph)	889.00	SY	\$ 19.30	\$ 17,157.70
540	MBGF	2,050.00	LF	\$ 14.80	\$ 30,340.00
540	Terminal Anchor Section	12.00	EA	\$ 590.00	\$ 7,080.00
544	Guardrail End Treatment	6.00	EA	\$ 1,600.00	\$ 9,600.00
644	Ins Sm Rd Sn Sup Ty S80(1)SA(P)	18.00	EA	\$ 425.00	\$ 7,650.00
644	Remove Sm Rd Sn Sup & Assem	1.00	EA	\$ 60.00	\$ 60.00
666	Refl Pav Mark (W)(4")(Bkn)	30.00	LF	\$ 0.35	\$ 10.50
666	Refl Pav Mark (W)(4")(Slid)	17,335.00	LF	\$ 0.35	\$ 6,067.25
666	Refl Pav Mark (W)(8")(Slid)	160.00	LF	\$ 0.65	\$ 104.00
666	Refl Pav Mark (W)(12")(Slid)	142.00	LF	\$ 3.35	\$ 475.70
666	Refl Pav Mark (W)(24)(Slid)	90.00	LF	\$ 4.70	\$ 423.00
666	Refl Pav Mark (Y)(4")(Slid)	13,796.00	LF	\$ 0.35	\$ 4,828.60
666	Refl Pav Mark (Y)(4")(Bkn)	580.00	LF	\$ 0.35	\$ 203.00
666	Refl Pav Mark (Y)(24)(Slid)	188.00	LF	\$ 4.70	\$ 883.60
668	Prefab Pav Mrk (W) (Word)	4.00	EA	\$ 210.00	\$ 840.00
668	Prefab Pav Mrk (W) (Arrow)	4.00	EA	\$ 105.00	\$ 420.00
672	Raised Pav Mark (Refl)(Ty I-C)	16.00	EA	\$ 3.60	\$ 57.60
672	Raised Pav Mark (Refl)(Ty II-A-A)	390.00	EA	\$ 3.30	\$ 1,287.00
	Bridge Construction	6,900.00	SF	\$ 70.00	\$ 483,000.00
	Luminaires	4.00	EA	\$ 2,500.00	\$ 10,000.00
1127	Geogrid Reinforcement	43,750.00	SY	\$ 2.40	\$ 105,000.00
4035	RCLHPP (24")(CL III)	208.00	LF	\$ 95.00	\$ 19,760.00
	<b>TOTAL</b>				<b>\$5,137,775.90</b>