



Hewitt Estimating Consultants
a Division of International Project Estimating Limited

Portfolio of Estimated Projects

**Heavy Civil & Infrastructure
Cost Estimating Consulting**

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Hydro Project Estimates

Underground Hydro Project

Year 2020

Description	Hydro Power Project	Tunnel Excavation	1,568,400 cy
Location	Asia	Cavern Excavation	614,290 cy
Estimate Type	Feasibility Estimate	Concrete Dam	601,220 cy
Assignment	Complete Estimate	Earth Excavation	2,927,680 cy

Dam & Spillway

Year 2019

Description	Spillway Construction	Cofferdam	32,675 cy
Location	North America	Excavation	653,500 cy
Estimate Type	Feasibility Estimate	Concrete	30,061 cy
Assignment	Complete Estimate	Gates & Guides	165 ton

Remote Mountain Hydro Project

Year 2018

Description	Powerhouse & Tunnel	Turbines	20 MW
Location	North America	Power Tunnel	9,843 ft
Estimate Type	Feasibility Estimate	RCC Dam	27,447 cy
Assignment	Complete Estimate	Camp	140 person

Powerhouse & Spillway Contract

Year 2017

Description	Concrete Powerhouse	Intake	117,630 cy
Location	North America	Spillway	496,660 cy
Estimate Type	Contractor Estimate	Penstock	52,280 cy
Assignment	Complete Estimate	Powerhouse	209,120 cy

Hydro Plant Reconstruction		Year	2016
Description	Powerhouse & Intake	Estimate Type	Feasibility Estimate
Location	North America	Powerhouse	Reconstruction
Hydro Project Rehabilitaion		Year	2016
Description	Powerhouse Replacement	Turbines	21 MW
Location	North America	Penstock	220 ton
Estimate Type	Owner's Estimate	Tunnel Rehab	2,297 ft
Assignment	Complete Estimate	Concrete	20,912 cy
Hydro Project Earthfill & RCC Dam		Year	2015
Description	Earthfill & RCC Dam	Diversion Tunnel	4,593 ft
Location	North America	Earthfill Dam	45,745,000 cy
Estimate Type	Contractor Estimate	RCC Dam	2,352,600 cy
Assignment	Complete Estimate	Concrete Portals	326,750 cy
RCC Dam & Powerhouse		Year	2014
Description	RCC Dam & Powerhouse	Turbines	600 MW
Location	North America	Rock Exc	1,900,000 cy
Estimate Type	Feasibility Estimate	RCC Dam	6,400,000 cy
Assignment	Complete Estimate	Concrete	350,000 cy
RCC Dam & Powerhouse		Year	2014
Description	RCC Dam & Powerhouse	Turbines	65 MW
Location	North America	RCC Dam	2,339,530 cy
Estimate Type	Feasibility Estimate	Tunnels	74,499 cy
Assignment	Complete Estimate	Concrete	52,280 cy
Remote Hydro Project		Year	2014
Description	Penstock & Powerhouse	Turbines	15 MW
Location	North America	Powerhouse	5,380 sf
Estimate Type	Feasibility Estimate	Penstock	19,686 ft
Assignment	Complete Estimate	Concrete	1,307 cy

Nuclear Generating Station		Year	2013
Description	Nuclear Power Project	Excavation	5,881,500 cy
Location	North America	Concrete	718,850 cy
Estimate Type	Contractor Estimate	Tunnels	182,980 cy
Assignment	Civil Estimate	Structural Steel	88,000 tons
Hydro Generating Station		Year	2013
Description	Powerhouse	Turbines	695 MW
Location	North America	Earthworks	15,422,600 cy
Estimate Type	Construction Estimate	Concrete	483,590 cy
Assignment	Concrete Estimate	Camp	2,000 person
Power Tunnel & Powerhouse		Year	2013
Description	Powerhouse & Tunnel	Turbines	42 MW
Location	North America	Power Tunnel	8,695 ft
Estimate Type	Feasibility Estimate	Rock Excavation	915,600 cy
Assignment	Owner's Estimate	Camp	250 person
Hydro Project Feasibility Study		Year	2012
Description	RCC Dam & Powerhouse	Turbines	720 MW
Location	North America	Earth Exc	30,061,000 cy
Estimate Type	Feasibility Estimate	Dam	61,429,000 cy
Assignment	Complete Estimate	Camp	2,000 person
Hydro Rehabilitation & Expansion Project		Year	2012
Description	Powerhouse Expansion	Turbines	476 MW
Location	North America	Cofferdam	235,260 cy
Estimate Type	Construction Estimate	Earth Excavation	261,400 cy
Assignment	Concrete Estimate	Concrete	261,400 cy
Dam & Spillway Rehabilitation		Year	2012
Description	Spillway Rehabilitation	Cofferdam	117,630 cy
Location	North America	Rock Excavation	196,050 cy
Estimate Type	Feasibility Estimate	Dam	261,400 cy
Assignment	Owner's Estimate	Concrete	58,815 cy

Pumped Storage Project		Year	2011
Description	Underground Powerhouse	Turbines	400 MW
Location	North America	Underground Exc	130,700 cy
Estimate Type	Construction Estimate	Earth Excavation	2,875,400 cy
Assignment	Complete Estimate	Concrete	58,815 cy
Underground Pump Storage		Year	2011
Description	Underground Powerhouse	Turbines	280 MW
Location	North America	Underground Exc	261,400 cy
Estimate Type	Feasibility Estimate	Rockfill Dam	1,058,670 cy
Assignment	Complete Estimate	Penstock	9,350 ft
Spillway Rehabilitation		Year	2011
Description	Spillway Expansion	Cofferdam	78,420 cy
Location	North America	Dam	130,700 cy
Estimate Type	Feasibility Estimate	Concrete	26,140 cy
Assignment	Complete Estimate	Spillway Gates	2 ea
Rock Channel & Powerhouse		Year	2010
Description	RCC Dam & Powerhouse	Turbines	60 MW
Location	North America	Rock Channel	2,614,000 cy
Estimate Type	Feasibility Estimate	Dam	261,400 cy
Assignment	Owner's Estimate	Penstock	2,238 ft
Small River Hydro Project		Year	2010
Description	Twin Powerhouses	Turbines	20 MW
Location	North America	Rock Exc	235,260 cy
Estimate Type	Feasibility Estimate	Dam	248,330 cy
Assignment	Owner's Estimate	Concrete	11,763 cy
Surface Penstock & Powerhouse		Year	2010
Description	Penstock & Powerhouse	Turbines	26 MW
Location	North America	Earth Excavation	457,450 cy
Estimate Type	Feasibility Estimate	Penstock	1,641 ft
Assignment	Complete Estimate	Concrete	9,149 cy

Hydro Project Feasibility Study		Year	2009
Description	RCC Dam & Powerhouse	Turbines	1,224 MW
Location	North America	Cofferdams	7,842,000 cy
Estimate Type	Feasibility Estimate	Earthworks	5,228,000 cy
Assignment	Complete Estimate	RCC Dam	1,437,700 cy
Hydro Project Feasibility Study		Year	2009
Description	RCC Dam & Powerhouse	Turbines	707 MW
Location	North America	Rock Excavation	2,614,000 cy
Estimate Type	Feasibility Estimate	Earth Excavation	3,267,500 cy
Assignment	Complete Estimate	RCC Dam	2,221,900 cy
Underground Powerhouse		Year	2009
Description	Tunnel & Powerhouse	Turbines	195 MW
Location	North America	Cavern Excavation	392,100 cy
Estimate Type	Feasibility Estimate	Power Tunnel	13,524 ft
Assignment	Complete Estimate	Concrete	65,350 cy
Spillway Gate Rehabilitation Project		Year	2009
Description	Spillway Gate Rehabilitation	Estimate Type	Feasibility Estimate
Location	North America	Assignment	Gate Rehabilitation
Northern Hydro Project		Year	2009
Description	Penstock & Powerhouse	Assignment	Excavation
Location	North America	Earth Excavation	784,200 cy
Creek Hydro Project		Year	2009
Description	RCC Dam & Powerhouse	Turbines	18 MW
Location	North America	Penstock	3,281 ft
Estimate Type	Feasibility Estimate	Concrete	3,921 cy
Hydro Project Feasibility Study		Year	2008
Description	Dam & Powerhouse	Turbines	2,028 MW
Location	North America	Excavation	5,881,500 cy
Estimate Type	Feasibility Estimate	RCC Dam	914,900 cy
Assignment	Complete Estimate	Concrete	1,307,000 cy

Hydro Project Feasibility Study		Year	2008
Description	Spillway & Powerhouse	Rock Excavation	2,000,000 cy
Location	North America	Earth Excavation	1,000,000 cy
Estimate Type	Feasibility Estimate	Dam	600,000 cy
Assignment	Owner's Estimate	Camp	1,800 person

Hydro Generating Station		Year	2007
Description	Dam & Powerhouse	Turbines	1,485 MW
Location	North America	Earthworks	21,173,400 cy
Estimate Type	Feasibility Estimate	Concrete	1,137,090 cy
Assignment	Complete Estimate	Camp	3,000 person

Hydro Project Feasibility Study		Year	2007
Description	Dam & Powerhouse	Cofferdam	1,372,350 cy
Location	North America	Rock Exc	914,900 cy
Estimate Type	Feasibility Estimate	Dam	7,972,700 cy
Assignment	Complete Estimate	Concrete	725,385 cy

RCC Dam & Penstock		Year	2007
Description	RCC Dam & Powerhouse	Turbines	100 MW
Location	South America	RCC Dam	228,725 cy
Estimate Type	Feasibility Estimate	Concrete	10,370 cy
Assignment	Complete Estimate	Penstock	2,142 tons

Hydro Project Expansion 4 Sites		Year	2006
Description	Powerhouse Expansion	Site 1	15 MW
Location	North America	Site 2	19 MW
Estimate Type	Contractor Estimate	Site 3	6 MW
Assignment	Civil Estimate	Site 4	6 MW

Powerhouse Rehabilitation Project		Year	2006
Description	Powerhouse Rehabilitation	Estimate Type	Feasibility Estimate
Location	North America	Assignment	Civil Work

Dam Feasibility Comparison

Year 2006

Description RCC & Arch Dams
Location Middle East
Estimate Type Feasibility Estimate

Assignment Dam Estimates
RCC Dam 679,640 cy
Arch Dam 392,100 cy

Hydroelectric Project

Year 2006

Description Hydro Project
Location South America
Estimate Type Feasibility Estimate

Assignment Civil Estimates
Dam 65,350 cy
Concrete 6,535 cy

Hydro Project Feasibility Study

Year 2005

Description Tunnel & Powerhouse
Location North America
Estimate Type Feasibility Estimate
Assignment Complete Estimate

Turbines 63 MW
Earth Excavation 261,400 cy
Penstock 6,562 ft
Dam 261,400 cy

Hydro Powerhouse Concrete

Year 2003

Description Powerhouse
Location North America

Estimate Type Contractor Estimate
Concrete 65,350 cy



Light Rail Transit Estimates

Regional LRT System Expansion		Year	2018	
Description	Light Rail Transit System	Track Length	34	miles
Location	North America	Underground Stations	16	ea
Estimate Type	Contractor Bid	Cut Cover Tunnel	16,405	ft
Assignment	Civil Estimate & Track	Bridge Structures	40	ea
Major Metroplitan LRT System Expansion		Year	2017	
Description	Light Rail Transit System	Track Length	43	miles
Location	North America	Stations	17	ea
Estimate Type	Contractor Bid	Elevated Guideway	65,620	ft
Assignment	Civil Estimate	Tunnels	16,405	ft
Major LRT System Connector		Year	2015	
Description	Light Rail Transit System	Track Length	24	miles
Location	North America	Underground Stations	17	ea
Estimate Type	Contractor Bid	Elevated Guideway	9,843	ft
Assignment	Civil Estimate	Tunnel Invert	19,686	ft
LRT River Bridge & At Grade Expansion		Year	2015	
Description	Light Rail Transit System	Track Length	19	miles
Location	North America	At Grade Stops	11	ea
Estimate Type	Contractor Bid	Elevated Guideway	6,562	ft
Assignment	Civil Estimate & Track	Cable Stay Bridge	40,888	sf

At Grade LRT Traffic Management		Year	2015	
Description	Light Rail Transit System	At Grade Guideway	17	miles
Location	North America	Traffic Management	4	years
Estimate Type	Contractor Bid	Temporary Paving	2300	tons
Regional At Grade LRT System		Year	2013	
Description	Light Rail Transit System	Track Length	22	miles
Location	North America	Embedded Track	15	miles
Estimate Type	Contractor Bid	Overpass Structures	5	ea
Assignment	Valuation Estimate	OMSF Buildings	117,618	sf
Downtown LRT Guideway		Year	2013	
Description	Light Rail Transit System	At Grade Track Slab	12,792	lf
Location	North America	Elevated Guideway	39,044	lf
Estimate Type	Insurance Estimate	Bored Tunnel	16,077	lf
Assignment	Valuation Estimate	Cut & Cover Tunnel	43,309	lf
Twin LRT Tunnel		Year	2012	
Description	Twin LRT TBM Tunnels	20 ft dia TBM Tunnels	41,013	ft
Location	North America	Tunnel Volume	548,940	cy
Estimate Type	Contractor Bid	Launch Shafts	4	ea
Assignment	Complete Estimate	Exit Shafts	6	ea
Elevated & At Grade LRT Guideway		Year	2012	
Description	Light Rail Transit System	Precast Guideway	13,124	ft
Location	North America	Steel Guideway	3,281	ft
Estimate Type	Contractor Bid	Twin Tunnel	9,843	ft
Assignment	Elevated Guideway	At Grade Guideway	13,124	ft
Elevated Airport LRT Link		Year	2011	
Description	Airport Transit System	Elevated Guideway	8,202.5	ft
Location	North America	Elevated Station	107,600	sf
Estimate Type	Contractor Bid	Maintenance Facility	43,040	sf

Metropolitan Subway Station & Tunnel

Year 2010

Description	Subway Station & Tunnels	Twin TBM Tunnels	3,268	m3
Location	North America	SEM Tunnels	1,200	cy
Estimate Type	Contractor Bid	Concrete	52,280	cy
Assignment	Complete Estimate	Subway Station	193,680	sf

Rapid Transit Link

Year 2008

Description	Airport Transit System	Elevated Guideway	9,843	ft
Location	North America	At Grade Guideway	4,922	ft
Estimate Type	Feasibility Estimate	Station Renovation	26,900	sf
Assignment	Complete Estimate	New Station	118,360	sf

LRT Tunnel Connector

Year 2005

Description	Subway Transit System	Track	4	miles
Location	North America	Tunnel Concrete	15,000	m3
Estimate Type	Contractor Bid	Elevated Guideway	13,000	ft
Assignment	Civil Works	At Grade Guideway	8,000	ft

Underground Subway Station Excavation

Year 2004

Description	Underground Subway Station	Rock Excavation	40,000	m3
Location	North America	New Station	12,000	m2
Estimate Type	Contractor Bid	Trackbed	5,000	sy

At Grade Downtown LRT System

Year 2002

Description	Light Rail Transit System	Elevated Guideway	13,124	ft
Location	Middle East	Twin Tunnel	9,843	ft
Estimate Type	Contractor Bid	At Grade Guideway	13,124	ft



Highway & Bridge Estimates

Cable Stay River Bridge

Year 2017

Description	Major River Crossing	Bridge Deck Area	1,345,000	sf
Location	North America	Structural Steel	16,500	ton
Estimate Type	Contractor Bid	Cable Stays	3,850	ton
Assignment	Main Span Bridge	Concrete	182,980	cy

Cable Stay River Bridge

Year 2015

Description	Major River Crossing	Assignment	Complete Estimate
Location	North America	Bridge Deck Area	1,796,920 sf
Estimate Type	Contractor Bid	Structural Steel	60,500 ton

Suspension Bridge Deck Replacement

Year 2014

Description	Suspension Bridge	Estimate Type	Contractor Estimate
Location	North America	Structural Steel	5,060 ton
Estimate Type	Contractor Bid	Utility Relocations	2,854 ft

Mountain Area Highways & Tunnel

Year 2014

Description	Highway & Tunnels	Assignment	Complete Estimate
Location	South America	Highway Tunnels	392,100 cy
Estimate Type	Contractor Bid	Earth Excavation	22,219,000 cy

Regional Ring Road		Year	2013	
Description	Ring Road	Assignment	Complete Estimate	
Location	North America	Structures	22	ea
Estimate Type	Feasibility Estimate	Earthworks	14,377,000	cy
Cable Stay River Bridge & Approach Tunnel		Year	2012	
Description	Tunnel & Major River Crossing	Bridge Deck Area	602,560	sf
Location	North America	Excavation	5,881,500	cy
Assignment	LTA Estimate Review	Tunnel	339,820	cy
Metropolitan Ring Road		Year	2012	
Description	Toll Highway	Assignment	Complete Estimate	
Location	North America	Bridge Deck Area	161,400	sf
Estimate Type	Contractor Bid	Earth Excavation	18,298,000	cy
Remote Northern Access Bridge		Year	2012	
Description	Northern River Bridge	Assignment	Cost to Complete	
Location	North America	Steel Pylons	154	ton
Estimate Type	Contractor Bid	Precast Deck	43,040	sf
Hydro Project Access Road Maintenance		Year	2011	
Description	Access Road Maintenance	Assignment	Complete Estimate	
Location	North America	Access Roads	37	miles
Estimate Type	Contractor Bid	Road Maintenance	4	year
Major Metropolitan Area Toll Highway		Year	2011	
Description	Major Toll Route Extension	Assignment	all structures	
Location	North America	Bridge Deck Area	968,400	sf
Estimate Type	Contractor Bid	Retaining Walls	107,600	sf
River Bridge Widening		Year	2011	
Description	River Bridge	Assignment	Cost to Complete	
Location	North America	Steel Trestle	10,007	sf
Estimate Type	Litigation Estimate	Concrete	1,307	cy

Major River Crossing Approach		Year	2010	
Description	Approach to Border River Bridge	Assignment	all structures	
Location	North America	Bridge Estimates	8	ea
Estimate Type	Contractor Bid	Short Tunnels	12	ea
City Access Highway		Year	2009	
Description	Highway & Interchange	Assignment	Complete Estimate	
Location	North America	Concrete Paving	279,500	cy
Estimate Type	Contractor Bid	Earth Excavation	3,921,000	cy
Regional Highway		Year	2009	
Description	Toll Highway Widening	Assignment	Complete Estimate	
Location	Middle East	Bridge Deck Area	32,280	sf
Estimate Type	Contractor Bid	Asphalt Paving	418,444	sy
Toll Highway & Onshore Bridge Structures		Year	2007	
Description	Highway & Major River Crossing	Assignment	Onshore Structures	
Location	North America	40 ea Overpasses	1,345,000	sf
Estimate Type	Contractor Bid	Retaining Walls	430,400	sf
Major Steel Truss River Bridge		Year	2007	
Description	River Bridge	Estimate Type	Contractor Estimate	
Location	North America	Steel	66,000	ton
Estimate Type	Contractor Bid	Concrete	26,140	cy
Metropolitan Ring Road		Year	2006	
Description	Ring Road	Assignment	Earthworks	
Location	North America	Earth Excavation	10,978,800	cy
Estimate Type	Contractor Bid	Drainage	Complete	
Major Highway Interchange		Year	2006	
Description	Highway & Interchange	Earth Excavation	2,614,000	cy
Location	Middle East	Bridge Deck Area	322,800	sf
Estimate Type	Contractor Bid	Granular	550,000	ton
Assignment	Complete Estimate	Asphalt Paving	330,000	ton

Cable Stay Bridge

Year 2006

Description	Major River Crossing	Cofferdam Estimates	2	ea
Location	North America	Bridge Concrete	39,210	cy
Estimate Type	Contractor Bid	Cable Stays	72,182	ft
Assignment	Estimate Coordination	Structural Steel	5,500	ton

Major Toll Highway Extention

Year 2006

Description	Toll Highway Extension	Rock Excavation	5,620,100	cy
Location	Middle East	Earth Excavation	1,960,500	cy
Year	2006	Overpass Bridges	20	ea
Assignment	Complete Estimate	Asphalt Paving	500,000	t

Mountain Region Access Highway

Year 2005

Description	Mountain Highway	Assignment	Complete Estimate
Location	North America	Rock Excavation	2,352,600 cy
Estimate Type	Contractor Bid	Asphalt Paving	220,000 ton

Major Highway Interchange

Year 2004

Description	Highway Interchange	Assignment	Structures Estimate
Location	North America	Bridge Deck Area	538,000 sf
Estimate Type	Contractor Bid	Asphalt Paving	550,000 ton

Depressed Metropolitan Highway

Year 2002

Description	Highway & Retaining Walls	Assignment	Complete Estimate
Location	South America	Retaining Walls	538,000 sf
Estimate Type	Contractor Bid	Earth Excavation	1,960,500 cy



Tunnel Estimates

Remote Underground Hydro Project		Year	2020	
Description	Underground Hydro Project	Drill Blast Tunnels	76,267	ft
Location	Asia	Shaft Excavation	3,937	ft
Estimate Type	Feasibility	Powerhouse Cavern	590,764	cy
Assignment	Complete Estimate	Concrete	1,239,036	cy
Water Supply Tunnel		Year	2020	
Description	Water Supply Tunnels	Water Tunnel	4,406	ft
Location	North America	Steel Carrier Pipe	4,511	ft
Estimate Type	Feasibility	Shafts	10,097	cy
Assignment	Complete Estimate	Valve Chambers	3	ea
Transit Study Option Pricing		Year	2019	
Description	Light Rail Transit Tunnels	TBM Tunnels	32,810	ft
Location	North America	Elevated Guideways	6,562	ft
Estimate Type	Feasibility	Tunnel Portals	4	ea
Assignment	Conceptual Estimate	Utility Relocations	1	LS
Tunnel Ventilation Upgrade		Year	2019	
Description	Railway Freight Tunnel	Niche Excavation	1,307	cy
Location	North America	Jet Fans	8	ea
Estimate Type	Feasibility	Electrical Fitout	12,468	ft
Assignment	Complete Estimate	Mechanical Fitout	12,468	ft

Water Supply Tunnel		Year	2019	
Description	Water Supply Tunnels	Water Tunnel	7,625	ft
Location	North America	Steel Carrier Pipe	8,242	ft
Estimate Type	Feasibility	Shafts	17,548	cy
Assignment	Complete Estimate	Slurry Walls	7,954	cy
Light Rail Cut & Cover Tunnel		Year	2018	
Description	LRT Cut Cover Tunnels	Cut Cover Tunnel	16,405	ft
Location	North America	Secant Pile Shoring	645,600	sf
Estimate Type	Contractor Bid	Solidier Pile Shoring	129,120	sf
Assignment	Tunnel Estimate	Soil Nail Shoring	21,520	sf
Sewer Relief Tunnels		Year	2018	
Description	Sewer Relief Tunnels	Sewer Tunnels	8,711	ft
Location	Feasibility	Concrete Carrier Pipe	8,711	ft
Estimate Type	Feasibility	Connection Manholes	1	LS
Assignment	Complete Estimate	Restoration	1	LS
Remote Hydro Power Tunnel		Year	2018	
Description	Hydro Power Tunnel	Drill Blast Tunnel	9,843	ft
Location	North America	Penstock Pipe	2,625	ft
Estimate Type	Feasibility	RCC Dam	26,140	cy
Light Rail TBM Tunnels		Year	2017	
Description	LRT TBM Tunnels	Twin Tunnel 23 ft Dia	10,400	ft
Location	North America	Single Tunnel 23 ft Dia	10,600	ft
Estimate Type	Contractor Bid	Underground Station	1	ea
Assignment	Tunnel Estimate	SEM Connection	400	ft
Power Tunnels & Raisebore		Year	2017	
Description	Hydro Tunnel Restoration	TBM Power Tunnel	25,100	ft
Location	North America	Rehab Existing Tunnels	29,529	ft
Estimate Type	Feasibility	Raise Bore	328	ft
Assignment	Complete Estimate	Remote Intake	1	ea

Metropolitan Water Tunnel		Year	2017	
Description	Water Supply Tunnel	Water Tunnel	3,576	ft
Location	North America	Steel Carrier Pipe	10,739	ft
Estimate Type	Feasibility	Shafts	614	ft
Assignment	Complete Estimate	Slurry Walls	7,581	cy
Sewer Discharge Tunnel		Year	2014	
Description	TBM Tunnels & Concrete Liner	12 ft dia TBM Tunnels	20,670	ft
Location	North America	8.5 ft dia Conc Liner	20,670	ft
Estimate Type	Contractor Bid	Shaft Excavation	9,933	cy
Assignment	Complete Estimate	Marine Risers	18	ea
Twin TBM LRT Tunnels		Year	2013	
Description	LRT TBM Tunnels	20 ft dia TBM Tunnel	21,327	ft
Location	North America	Tunnel Volume	392,100	cy
Estimate Type	Feasibility	Cross Passages	3	ea
Assignment	Complete Estimate	Exit Shafts	2	ea
Feedermain Sewer Tunnel		Year	2013	
Description	TBM Tunnels with Carrier Pipe	Tunnel Length	19,030	ft
Location	North America	Tunnel Volume	82,341	cy
Estimate Type	Contractor Bid	8 ft dia Carrier Pipe	19,030	ft
Assignment	Complete Estimate	Surface Watermain	6,562	ft
Large Diameter Sewer Tunnel		Year	2011	
Description	TBM Tunnel	Tunnel Length	9,843	ft
Location	North America	Tunnel Volume	156,840	cy
Estimate Type	Contractor Bid	Shafts	20	ea
Assignment	Complete Estimate	Sewer Connections	20	ea
Underground Pump Storage Complex		Year	2009	
Description	Tunnel & Powerhouse	Power Tunnel	196,050	cy
Location	North America	Powerhouse Exc	65,350	cy
Estimate Type	Feasibility	Rockfill Dam	3,790,300	cy
Assignment	Complete Estimate	HDPE Liner	555,556	sy

Drill Blast Hydro Power Tunnel		Year	2009	
Description	Hydro Power TBM Tunnel	Tunnel Length	19,686	ft
Location	North America	Tunnel Volume	250,000	m3
Estimate Type	Feasibility	Construction Adit	28,754	cy
Assignment	Complete Estimate	Portal Excavation	69,271	cy
Water Supply Tunnels		Year	2008	
Description	TBM Tunnel	Twin Tunnels	9,843	ft
Location	North America	Tunnel Volume	78,420	cy
Estimate Type	Contractor Bid	Raisebore Shaft	656	ft
Assignment	Complete Estimate	Sedimentation Ponds	1	LS
Powerhouse Diversion Tunnel		Year	2008	
Description	Drill Blast Diversion Tunnel	Drill Blast Tunnel	690,096	cy
Location	North America	Construction Adit	33982	cy
Estimate Type	Feasibility	Portal Excavation	82341	cy
Assignment	Complete Estimate	Diversion Plugs	646,965	cy
Drill Blast Power Tunnels		Year	2007	
Description	Power Tunnel TBM	Power Tunnel	12,960	ft
Location	North America	Penstock	6,821	ft
Estimate Type	Feasibility	Power Tunnel	2,851	ft
Assignment	Complete Estimate	Penstock	4,465	ft
Underground Powerhouse		Year	2006	
Description	Tunnel & Powerhouse	Drill Blast Tunnel	326,750	cy
Location	North America	Powerhouse Exc	65,350	cy
Estimate Type	Feasibility	Concrete	67,964	cy
Assignment	Complete Estimate	Closed Cell Cofferdam	15,684	cy
Underground Hydro Project		Year	2006	
Description	Tunnel & Powerhouse	Drill Blast Tunnel	261,400	cy
Location	South America	Powerhouse Exc	52,280	cy
Estimate Type	Feasibility	Surface Rock Exc	2,614,000	cy
Assignment	Complete Estimate	Access Adits	32,675	cy

Downtown Light Rail Transit Tunnel		Year	2005	
Description	TBM Tunnel	Twin Tunnels	6,562	ft
Location	North America	Tunnel Volume	196,050	cy
Estimate Type	Contractor Bid	Cut Cover Station	1	LS
Assignment	Complete Estimate	Utility Relocations	1	LS

Mountain Pass Highway Tunnel		Year	2005	
Description	Highway Tunnel Drill Blast	Drill Blast Tunnel	141,156	cy
Location	North America	Portal Excavations	67000	cy
Estimate Type	Contractor Bid	Rockbolting	5500	ft
Assignment	Complete Estimate	Shotcrete	1,568	cy

Powerhouse Diversion Tunnel		Year	2003	
Description	Diversion Tunnel Drill Blast	Drill Blast Tunnel	117,630	cy
Location	North America	Concrete	13,070	cy
Estimate Type	Contractor Bid	Rockbolting	14,976	ft
Assignment	Complete Estimate	Shotcrete	1,307	cy

Powerhouse Intake Tunnel		Year	2003	
Description	Intake Tunnel Drill Blast	Drill Blast Tunnel	52,280	cy
Location	North America	Concrete	6,535	cy
Estimate Type	Contractor Bid	Rockbolting	8,320	ft
Assignment	Complete Estimate	Shotcrete	784	cy



International Airport Estimates

International Airport		Year	2012	
Description	International Airport	Terminal Building	2,033,640	sf
Location	South America	Concrete Pavement	502,133	sy
Estimate Type	Feasibility	Parking Structure	9,000	vehicles
Regional Airport		Year	2004	
Description	Regional Airport	Estimate Type	Contractor Bid	
Location	North America	Terminal	322,800	m2
International Airport Expansion		Year	2003	
Description	Airport Expansion	Terminal	1,624,760	sf
Location	Asia	Apron	1,291,200	sf
Estimate Type	Feasibility Study	Runway	4,842,000	sf
International Airport		Year	2002	
Description	International Airport	Excavation	11,763,000	cy
Location	South America	Concrete Pavement	45,745	cy
Estimate Type	Contractor Bid	Asphalt Pavement	220,000	ton
Assignment	Complete Estimate	Terminal Building	408,880	sf
International Airport Terminal Buildings		Year	2000	
Description	International Airport Terminal	Assignment	Complete Estimate	
Location	North America	Terminal	12,912,000	sf



High Voltage Transmission Line Estimates

Hydro Project High Voltage Connection		Year	2020	
Description	Transmission Link Project	Transmission Line	27	miles
Location	Asia	Lattice Towers	107	ea
230 kv Transmission Line Foundations		Year	2014	
Description	Transmission Link Project	Lattice Tower Fdns	550	ea
Location	North America	Self Supporting Fdns	370	ea
240 kV Double Circuit Transmission Line		Year	2013	
Description	High Voltage Transmission Line	Transmission Line	202	miles
Location	North America	Lattice Towers	1,000	ea
230 kv Transmission Line		Year	2013	
Description	High Voltage Transmission Line	Transmission Line	92	miles
Location	Asia	Substations	3	ea
230 kv Transmission Line		Year	2012	
Description	High Voltage Transmission Line	Transmission Line	93	miles
Location	North America	Foundations	2,500	ea
500 kV Double Circuit Transmission Line		Year	2008	
Description	High Voltage Transmission Line	Transmission Line	110	miles
Location	North America	Lattice Towers	753	ea



Pipeline Estimates

Cross Country Mainline Pipeline

Description	Mainline Pipeline	Estimate Type	Contractor Bid
Location	North America	600mm Pipeline	492,150 ft

Vapor Ethylene Pipeline Project

Description	Product Pipeline	Estimate Type	Contractor Bid
Location	Middle East	600mm Pipeline	45,934 ft

Product Pipeline Upgrade

Description	Product Pipeline	Estimate Type	Contractor Bid
Location	Middle East	750mm Pipeline	98,430 ft

Cross Country Mainline Pipeline

Description	Mainline Pipeline	Estimate Type	Contractor Bid
Location	Asia	600mm Pipeline	656,200 ft

Petroleum Product Plant

Description	Process Plant	Estimate Type	Contractor Bid
Location	Middle East	Process Pipe	59,058 ft

Amine Plant Pipeline

Description	Process Plant	Estimate Type	Contractor Bid
Location	Middle East	Process Pipe	300,000 dia-inch

Gas Distribution Network

Description	Gas Distribution	Estimate Type	Contractor Bid	
Location	Asia	450mm Pipeline	262,480	ft

Drainage Outfall Pipeline

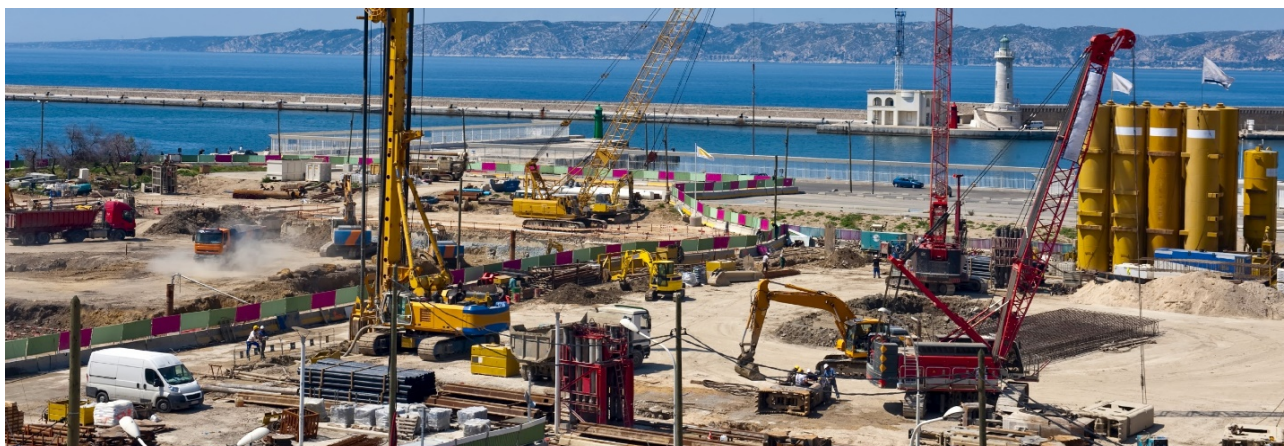
Description	Subsurface Drainage	Estimate Type	Contractor Bid	
Location	Asia	450mm Pipe	492,150	ft

Fibre Optic Line

Description	Fibre Optic Line	Estimate Type	Contractor Bid	
Location	North America	Fibre Optic Cable	820,250	ft

Blowdown Pipeline

Description	Water Pipeline	Estimate Type	Contractor Bid	
Location	North America	Waterline	9,843	ft



Hewitt Estimating List of Clients

Client List	Country	Type
Contractors		
Aecon Construction Group	Canada	Heavy Civil Engineering Contractor
Flatiron Constructors	USA	Heavy Civil Engineering Contractor
Vinci Construction Grands Projets	France	Heavy Civil Engineering Contractor
Dragados Construction	Canada	Heavy Civil Engineering Contractor
Ferrovial Infrastructure	Canada	BOT Contractor & Concessionaire
Al-Ayuni Investment & Contracting Co.	Saudi Arabia	Road & Railway Contractor
Grands Travaux Pétroliers	Algeria	Government Contractor
Bilfinger Berger Civil	USA	Heavy Civil Engineering Contractor
Graham Construction	Canada	General Civil Contractor
Polat Construction	Turkey	Heavy Civil Engineering Contractor
Rizzani de Eccher	USA	Guideway Erection Contractor
North America Constructors	Canada	General Civil Contractor
General Consolidated Contractors	Saudi Arabia	Industrial Contractor
Emera Utility Services	Canada	Transmission Line Contractor
Meade	USA	Utility & Pipeline Contractor
Shuaa Al Khaleej Oil & Gas Services	UAE	Industrial Contractor
Metric Contracting	Canada	Earthmoving Contractor
Pro Rig Transmission Line Services	Australia	Transmission Line Contractor
Roni Excavating	Canada	Earthmoving Contractor
Chant Construction Group	Canada	Civil Project Management Company
Aenco Concrete Solutions	Canada	Concrete Contractor
Mahindra Matthews Contracting	India	Contractor Developer

Client List	Country	Type
Engineering Companies		
SNC Lavalin	Canada	Engineering & Construction Company
Aecom USA	USA	Engineering Company
Mott MacDonald	Canada	Engineering Company
Stantec Canada	Canada	Engineering Company
MWH	USA	Engineering Company
Hatch Energy	Canada	Engineering Company
KGS Group	Canada	Engineering Company
WSP Canada	Canada	Engineering Company
Parsons Brinckerhoff	USA	Engineering & Construction Company
Wood Group Mustang	Canada	Pipeline Engineering Company
SC Infrastructure Corp	Canada	Project Management Company
Australian Valuation Solutions Pty Ltd	Australia	Infrastructure Valuations
Price Waterhouse Coopers LLP	USA	Management Consultant
Bates White	USA	Management Consultant
Government, Utilities & Developers		
World Bank Hydro Group	USA	International Development
Nepal Electrical Authority	Nepal	Power Utility
Vale Mining Group	Canada	International Mining Company
Exxon Mobile	USA	Oil Developer
Regional Power	Canada	Private Power Developer
Miso Energy	USA	Power Utility
Ontario Power Generation	Canada	Power Utility
Emera Power	Canada	Power Utility
City of Laval	Canada	Municipality
BC Hydro	Canada	Power Utility
Manitoba Hydro	Canada	Power Utility
Nalcor Energy	Canada	Power Utility