# THOMASBROWN



# PRELIMINARY REPORT PROPOSED CENTRAL YORK FIRE SERVICES HEADQUARTERS STATION 4-5

**NOVEMBER 15, 2016** 









#### PROPOSED CENTRAL YORK FIRE SERVICES HEADQUARTERS STATION 4-5

Thomas Brown Architects Inc. were engaged by the Town of Aurora and Central York Fire Services in the Summer of 2015 to advise on the feasibility of locating a Headquarters Station including Fire Training facilities on 3 selected sites – each approximately 2 Acres in size. Based on our preliminary studies, we were able to determine that each of the sites would accommodate a Headquarters Station complete with Fire Training Offices and Classrooms but without the land area to accommodate Training Props and Training Exercises. Following an informal presentation to the Joint Councils of Aurora and Newmarket, it was agreed to secure the 2 sites which are adjacent to each other on Isaacson Crescent at Earl Stewart Drive to provide a 4 Acre site for the development of a Headquarters Station and Fire Training Facilities including exterior Training Exercises.

Once the properties were secured, we were asked to provide preliminary information as to the probable size of the Headquarters Station, how it might be located on the site and what might be the extent of the Training Facilities which could be incorporated within the balance of the site. In conjunction with this investigation, we were asked to provide a Preliminary Cost Estimate for the project as envisioned.

Thomas Brown Architects have gained an unusual expertise in the Design and Construction Administration of Fire Stations over the past 40 years having completed over 100 such projects. We have attached for reference a copy of our complete experience in Fire and EMS projects and we have attached copies of Fact

Sheets for Fire Stations recently completed in Aurora, Markham, Richmond Hill, Whitchurch-Stouffville and our most recent Station in Oshawa. Our approach to the Proposed Headquarters Station in Aurora is based on a facility which would be comparable in quality to these examples.

We have also included for reference our history of Costs for Fire Station Projects which we have been tracking since 1995. We have highlighted 6 particular projects which we feel would be representative of the costs which would be anticipated for this Project. We have also used this information for a determination of the probable escalation in costs for the Aurora Headquarters in 2017-2018.

We have worked with Central York Fire Services to determine a Programme for the Headquarters Station. The main elements of the Station will be:

- Headquarters Administration Offices
- Fire Suppression Facilities
- Equipment Spaces
- Apparatus Bays & Service Spaces
- Training & Classroom Spaces

These elements are broken down into room sizes in the Preliminary Programme attached to this report.



Using the Programme, we have developed a Cost Estimate based on the projected overall Station size and the historical costs for projects of similar quality. Based on our experience with similar facilities, we have also included projected costs for the development of the Training Facilities.

The Preliminary Cost Estimate attached to this Report is broken down to indicate the costs for each of the main elements located in the Headquarters Station. We have then added projected costs for the Training Area assuming that it would be developed at the same time as the Headquarters Station.

The balance of the Cost Estimate incorporates additional budget items including Escalation, Consulting and In-House fees, Permit Costs, an Allowance for Poor Soils and a Contingency Allowance.

In order to provide a sense of reality to this Report, we have developed a Site Layout Drawing P1 incorporating the Headquarters Station, proper driveways and turning radii for the Fire Vehicles, adequate parking spaces for Staff, Visitors and Training requirements, Exterior Training areas for Training Props, Hose Exercises and Driver Training.

While the Headquarters Station is not specifically planned, we have allocated the required space to the shape which we have shown on the Site Plan. The allocation of the various elements are illustrated on Drawing P2 – Floor Plan & Massing. The Plan Areas are based on the Preliminary Programme.

Drawing P3 provides an overall Aerial View of the Site with the Building shape and size and the Exterior Training Facilities illustrated.

Finally, we have prepared an "Artists Sketch" of the Headquarters Station as seen from the corner of Isaacson Crescent and Earl Stewart Drive.

We trust that you will find the information contained in this Report to be of assistance in understanding and evaluating this important proposed development. We are readily available to assist further with responses to any questions arising or to provide further information and/or opinions.

Respectfully,

Paul McIntosh

Thomas Brown Architects Inc.

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pem@tbrownarch.com

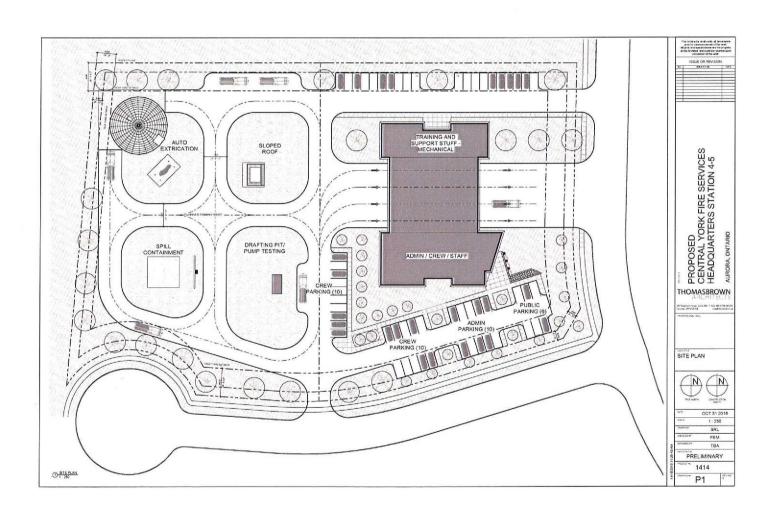
### Preliminary CYFS Headquarters Station 4-5 Programme November 2016

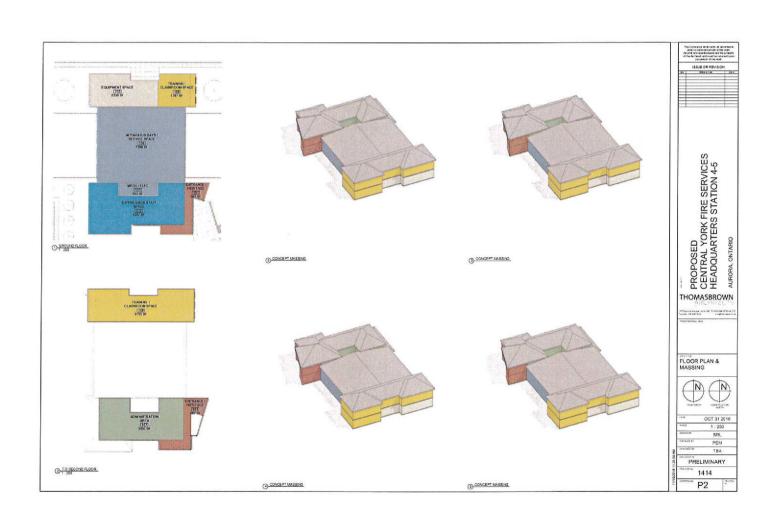
Administration Area		
FRONT VESTIBULE	80 sq ft	
REAR VESTIBULE	50 sq ft	
MALE B/F WASHROOM	100 sq ft	
FEMALE B/F WASHROOM	100 sq ft	ar it is a second
HERITAGE ROOM	600 sq ft	
CHIEF'S OFFICE	250 sq ft	
DEPUTY'S OFFICE 1	225 sq ft	
DEPUTY'S OFFICE 2	225 sq ft	
HR OFFICE	150 sq ft	
BOARD ROOM	300 sq ft	
ADMINISTRATIVE ASSISTANTS (4)	480 sq ft	
COPIER/ADMIN FILES/STORAGE	240 sq ft	
	2,800 sq ft	
Suppression Staff Space	21 EUX W. C. 1940-1944 April 1900 1904 (1904) 1904 1904 1904 1904 1904 1904 1904 1904	BALLES BALLET STATE OF STATE O
PLATOON CHIEF	240 sq ft	1.00
CAPTAINS OFFICE (2)	480 sq ft	
DAYROOM	360 sq ft	
KITCHEN / DINING ROOM	450 sq ft	rion grape i d
MENS WASHROOM & SHOWERS	240 sq ft	
MENS LOCKER ROOM	320 sq ft	
WOMENS WASHROOM & SHOWERS	90 sq ft	
WOMENS LOCKER ROOM	100 sq ft	
DORMITORIES	640 sq ft	i in the second
EXERCISE ROOM	600 sq ft	
	3,520 sq ft	
Tandana and Caraca		
Equipment Space SCBA/CLEAN ROOM	300 sq ft	
MEDICAL STORAGE	100 sq ft	
GEAR ROOM (60 GEAR STORAGE UNITS)	500 sq ft	
GENERAL STORAGE	400 sq ft	
WORKSHOP	150 sq ft	
PARTS STORAGE	150 sq ft	
HOSE STORAGE / DRYING	100 sq 11	
TIOGE STORAGE / BICTING	1,700 sq ft	
	1,700 Sq It	
Apparatus Bays/Service Space		and the second s
APPARATUS BAYS (4 DRIVE THROUGH)	7,200 sq ft	
MECHANICAL	300 sq ft	
ELECTRICAL	200 sq ft	
	7,700 sq ft	
raining/Classroom Space		
OFFICES (4)	600 sq ft	
CLASSROOMS (2)	1,500 sq ft	
TRAINING SPACES (INTERIOR)	2,000 sq ft	
	4,100 sq ft	
TOTAL AREAS	40 000 4	
	19,820 sq ft	
CIRCULATION & WALLS @ 25%	4,955 sq ft	
TOTAL PROJECT SIZE	24,775 sq ft	

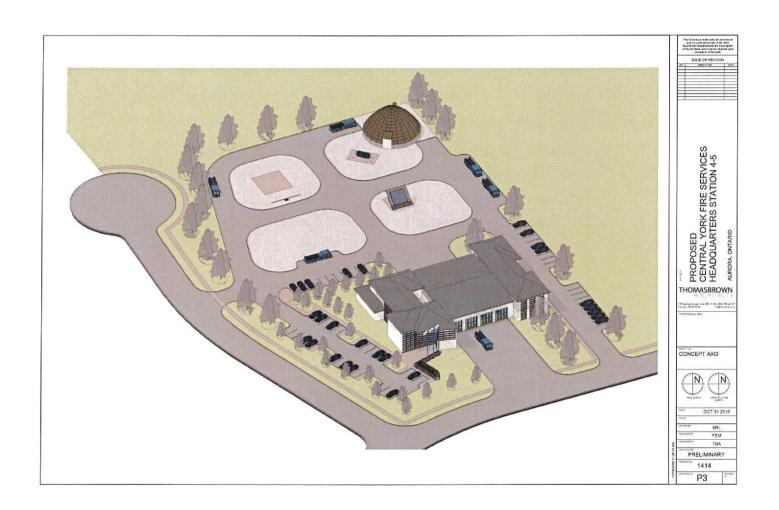
# **Preliminary CYFS Headquarters Station 4-5 Cost Estimate**

November 2016

HEADQUARTERS OFFICES		
ADMINISTRATION AREA	2,800 sq ft @ \$315/sq ft	\$ 882,000
SUPPRESSION STAFF SPACE		
CREW QUARTERS	3,520 sq ft @ \$315/sq ft	\$1,108,800
EQUIPMENT SPACE		au l
LOCATED ADJACENT TO BAYS	1,700 sq ft @ \$315/sq ft	\$ 535,500
APPARATUS BAYS/SERVICE SPA	CE	
FOUR DRIVE-THROUGH BAYS	7,700 sq ft @ \$315/sq ft	\$ 2,425,500
RAINING/CLASSROOM SPACE		
OFFICES, CLASSROOMS & TRAINING	4,100 sq ft @ \$315/sq ft	\$ 1,291,500
CIRCULATION & WALLS		
ALLOWANCES	4,955 sq ft @ \$315/sq ft	\$ 1,560,825
SUBTOTAL	24,775 sq ft	\$ 7,804,125
RAINING AREA		
SITE SERVICING & PREP	Allowance	\$ 185,000
ASPHALT PAVING	2,300 sq m @ \$50/sq m	\$ 115,000
SALT DOME	2,800 sq ft @ \$125/sq ft	\$ 350,000
ALLOWANCE FOR PROPS	4 @ \$25,000	\$ 100,000
SUBTOTAL		\$ 8,554,125
ESCALATION FOR 2018 @ 3.0%		\$ 240,915
PROJECT MANAGEMENT (Internal)		\$ 300,000
		Ψ 300,000
CONSULTANTS FEES @ 7%		\$ 600,000
PERMITS		\$ 600,000 \$ 50,000
		\$ 600,000
PERMITS		\$ 600,000 \$ 50,000
PERMITS ADVERSE SOILS (Allowance)		\$ 600,000 \$ 50,000 \$ 200,000











Project	Year	Total Size	Total Cost	Cost
<del> </del>		(sq.ft.)	(\$)	\$/sq.ft.
Kincardine Fire Headquarters	1995	9,500	799,054.00	84.11
Whitby Fire Headquarters	1995	24,000	2,228,386.93	92.85
Stoney Creek Fire Stations 2 & 4	1995	14,100	1,299,880.00	92.81
Mississauga Fire Station 118	1996	7,700	766,747.10	99.58
Markham Fire Station 96	1996	9.000	1,080,040.18	120.00
Scarborough Fire Station 08	1998	7,100	697,436.00	98.23
Scarborough Fire Station 01	1998	9,100	1,136,999.46	125.15
Mississauga Fire Station 119	1998/1999	7,850	895,000.00	114.01
Mississauga Fire Station 117	1998/1999	7,500	811,125.00	108.11
Richmond Hill Fire Station 04	1999	6,650	817,500.00	123.12
Richmond Hill Fire Station 05	Mar 2000	9,750	1,302,750.32	133.62
Township of King Fire Station 34	Aug 2000	7,500	1,090,037.30	144.76
Toronto Fire Station/Sheppard	Nov 2000	17,000	3,130,000.00	184.00
Whitby Fire Station 06	Mar 2001	8,400	1,285,710.28	153.06
Holland Landing Fire Station 34	Feb 2002	8,885	1,380,224.00	155.34
Markham Fire Station 92	Apr 2003	15,400	2,909,351.55	189.00
Whitby Fire Station 03	Jun 2003	8.400	1,586,000.00	189.00
Courtice Fire Station	May 2004	9,950	1,975,000.00	198.50
Markham Fire Station 98	Sept 2004	10,000	2,497.000.00	249.70
Guelph East End Fire Station	Dec 2004	9,050	1,968.430.00	218.00
West Brant Fire Ambulance Station	Mar 2005	10,370	2,033,000.00	196.05
Aurora Fire Station 44	July 2005	8,167	1,800,000.00	220.40
Whitby Fire Station 01 - Brooklin	Sept 2005	8,400	1,986,500.00	236.49
Oshawa Fire Station No.05	Sept 2005	17,170	4,448,370.00	259.00
City of Toronto Fire Station 116	Mar 2006	11,770	2,873,000.00	244.10
Georgetown Fire/EMS Station*	Mar 2008	16,000	4,261,600.00	*266.35
Georgetown Fire Headquarters *	Mar 2008	13,600	3,931,300.00	*289.07
Whitchurch -Stouffville Fire/EMS	Sept 2008	18,800	5,508,400.00	293.00
Markham Fire Station 93*	April 2009	10,000	2,998,000.00	*299.80
Brampton Station 205 (add'ns &alt's)	May 2009	4,935	1,320,290.00	267.54
Guelph Fire/Police/EMS Station*	May 2009	36,000	9,092,229.00	*252.56
Brampton Station 212*	Aug 2009	11,040	3,253,572.00	*294.70
Mississauga Fire/Peel Region EMS	Oct 2009	37,750	10,200,000.00	270.20
Brampton Live Fire Training Structure	Jun 2010	6,277	2,194,300.00	342.41
Markham Fire Station 99*	Nov 2010	10,839	3,278,000.00	*302.43
Richmond Hill Station 8-6*	July 2011	8,934	2,773,910.00	*310.49
City of Toronto Fire Station 141	Aug 2011	11,535	4,350,000.00	377.11
City of Toronto Fire Station 221	July 2012	11,915	4,474,200.00	375.51
City of Toronto Fire Station 135	Oct 2013	15,000	5,741,500.00	382.77

<sup>\*</sup>Leed Designed



Project	Year	Total Size (sq.ft.)	Total Cost (\$)	Cost \$/sq.ft.
Canfield Fire Station	Nov 2013	5,200	1,200,000.00	230.77
Queensville Fire Station 2-8	Jan 2014	9,880	2,588.680.00	262.00
Mount Albert Fire Station 2-6	May 2014	8,180	2,265,265.00	277.00
Oshawa Fire Station 6	Jun 2015	10,800	3,376,000.00	312.60
Vaughan Fire 7-3 / York EMS Station Cambridge Fire Station No. 6	Aug 2015 Jun 2016	13,880 9,150	5,896,696.00 3,627,000.00	*424.83 396.39

<sup>\*</sup>Leed Designed



**DESCRIPTION: 8,060 SQ.FT. FIRE STATION** 



#### Client + Consulting Team

OWNER TOWN OF AURORA
OCCUPANT CENTRAL YORK FIRE SERVICES
CONTRACTOR BWK CONSTRUCTIN COMPANY LTD.
STRUCTURAL STEPHENSON ENGINEERING LTD.
MECHANICAL/ELECTRICAL ABLE ENGINEERING INC.
SITE SERVICES CANSULT LIMITED
LANDSCAPE ARCHITECTS HARRINGTON & HOYLE LANDSCAPE ARCHITECTS

#### Cost

COMPLETION FEBRUARY 2006 SCHEDULE 30 WEEKS TENDER \$1,800,000.00 CONSTRUCTION \$1,777,000.00

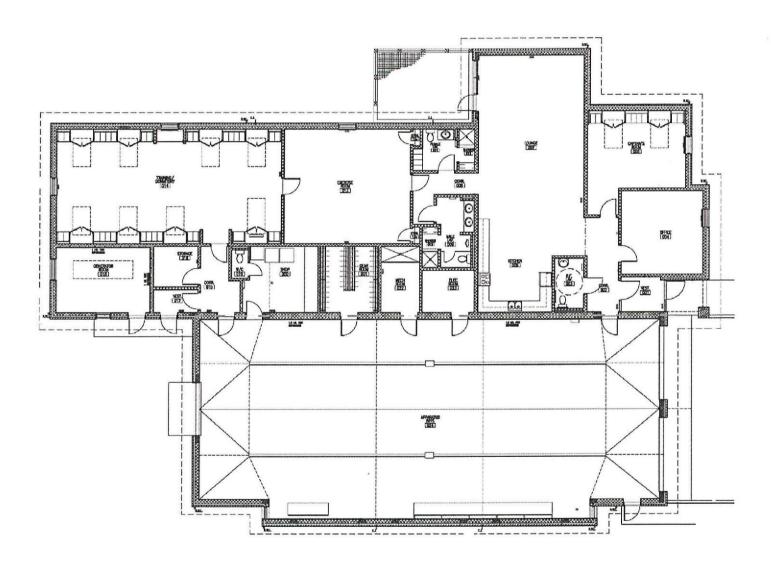
#### Program

2 DOUBLE-DEPTH DRIVE-THROUGH VEHICLE BAYS, GENERATOR ROOM, WORKSHOP, MECH/ELEC ROOMS, DORMITORY / TRAINING ROOM FOR 8, EXERCISE ROOM, MALE + FEMALE WASHROOMS, CAPTAIN'S DORM + OFFICE FOR 2, KITCHEN, DINING, LOUNGE, BARRIER-FREE WASHROOM.

#### References

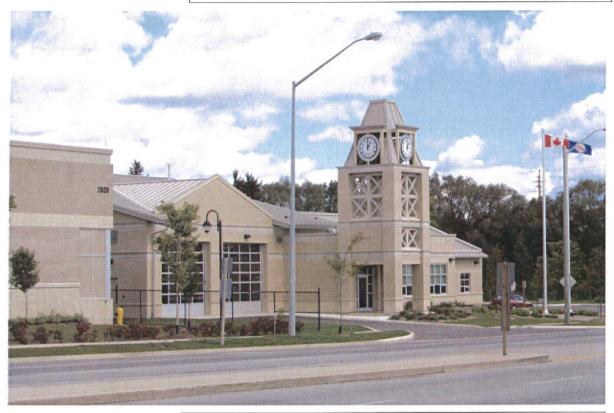
THE TOWN OF AURORA ALLAN DOWNEY, DIRECTOR, LEISURE SERVICES (905) 726-4752 AARON KARMAZYN, MANAGER ,FACILITIES + PROPERTY (905) 727-3123 X4323 CENTRAL YORK FIRE SERVICES JOHN MOLYNEAUX, FIRE CHIEF (905) 895-9222







DESCRIPTION: 10,000 SQ.FT. FIRE STATION INCORPORATING FIRE PREVENTION OFFICES, FACILITIES FOR WOMEN FIRE FIGHTERS, GROUND SOURCE HEATING & COOLING, RAIN WATER HARVESTING FOR TRUCK FILL AND TRUCK WASH. TARGETING LEED™ GOLD CERTIFICATION.



#### Program

FIRE: 2 DOUBLE-DEPTH DRIVE-THROUGH VEHICLE BAYS & 1 BACK-IN BAY, GENERATOR ROOM, WORKSHOP, AIR FILL RM, LAUNDRY, GEAR ROOM, MECH/ELEC ROOMS, DORMITORY/TRAINING ROOM FOR 10, EXERCISE ROOM, MALE + FEMALE WASHROOMS, CAPTAIN'S OFFICE, DISTRICT CHIEF OFFICE, FIRE PREVENTION OFFICE FOR 4, KITCHEN/DINING/LOUNGE, BARRIER-FREE LAV.

#### Cost

COMPLETION SUMMER 2010 SCHEDULE 12 MONTHS ESTIMATED COST \$3,700,000.00 TENDER PRICE: \$2,998,000.00 CONTRACT PRICE \$2,982,051.16

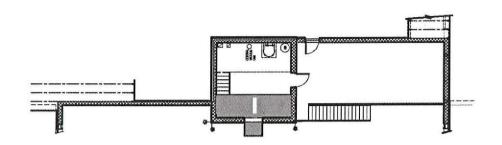
#### Client + Consulting Team

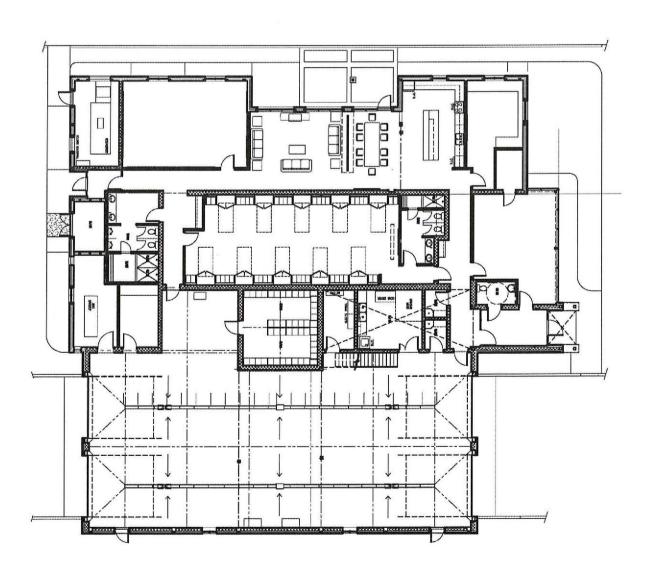
OWNER TOWN OF MARKHAM
OCCUPANT MARKHAM FIRE DEPARTMENT
CONTRACTOR TBA
STRUCTURAL STEPHENSON ENGINEERING LTD.
MECHANICAL/ ELECTRICAL COBALT ENGINEERING
SITE SERVICES EAGLEBROOKE ENGINEERING
LANDSCAPE ARCHITECTS HARRINGTON & HOYLE LANDSCAPE ARCHITECTS

#### References

THE TOWN OF MARKHAM MAX STANFORD (905) 477-7000 X 2710
MARKHAM FIRE DEPARTMENT DEPUTY CHIEF PHIL ALEXANDER (905) 477-5960









DESCRIPTION: 10,000 SQ.FT. FIRE STATION INCORPORATING FIRE PREVENTION OFFICES, FACILITIES FOR WOMEN FIRE FIGHTERS, BAS, SOLAR PV AND RAIN WATER HARVESTING FOR TRUCK FILL AND TRUCK WASH. TARGETING LEED™ SILVER CERTIFICATION.



#### Program

FIRE: 2 DOUBLE-DEPTH DRIVE-THROUGH VEHICLE BAYS & 1 BACK-IN BAY, GENERATOR ROOM, WORKSHOP, AIR FILL RM, LAUNDRY, GEAR ROOM, MECH/ELEC ROOMS, DORMITORY/TRAINING ROOM FOR 10, EXERCISE ROOM, MALE + FEMALE WASHROOMS, CAPTAIN'S OFFICE, DISTRICT CHIEF OFFICE, FIRE PREVENTION OFFICE FOR 4, KITCHEN/DINING/LOUNGE, BARRIER-FREE LAV.

#### Cost

COMPLETION MAY 2012 SCHEDULE 56 WEEKS TENDER AMOUNT \$3,278,000.00 FINAL CONSTRUCTION \$3,547,600.00

#### Client + Consulting Team

OWNER TOWN OF MARKHAM
OCCUPANT MARKHAM FIRE DEPARTMENT
CONTRACTOR TBA
ARCHITECTURAL TEAM LEADERS – PAUL MCINTOSH, JANET STEWART
STRUCTURAL STEPHENSON ENGINEERING LTD.- ARON MCCALLUM, ERIC JOHNSON
MECHANICAL/ ELECTRICAL JAIN & ASSOC – EZZAT MITRI, ANISH JAIN
SITE SERVICES MGM CONSULTING LTD. – JOHN BISHOP, MATT STAIRS
LANDSCAPE ARCHITECTS HARRINGTON MCAVAN LANDSCAPE ARCHITECTS – RICH MCAVAN

#### References

THE TOWN OF MARKHAM MAX STANFORD (905) 477-7000 EXT 2710
MARKHAM FIRE DEPARTMENT DEPUTY CHIEF PHIL ALEXANDER (905) 477-5960



**DESCRIPTION:** SINGLE STOREY 8390 SQ.FT. FIRE STATION ON A 1.084 ACRE SITE INCORPORATING INDIVIDUAL DORMS FOR 6, RAINWATER HARVESTING FOR TRUCK WASHING. TARGETING LEED SILVER CERTIFICATION.



#### Client / Consulting Team

OWNER TOWN OF RICHMOND HILL
OCCUPANT RICHMOND HILL FIRE & EMERGENCY SERVICES
CONTRACTOR BECC CONSTRUCTION GROUP LTD.
STRUCTURAL STEPHENSON ENGINEERING LTD.
MECHANICAL/ELECTRICAL JAIN & ASSOCIATES
CIVIL MGM CONSULTING
LANDSCAPING HARRINGTON MCAVAN

Cost

COMPLETION AUGUST 2012 SCHEDULE 47 WEEKS TENDER\$ 2,773,910.00 CONTRACT PRICE \$ 2.814, 968.00

Program

FIRE: SINGLE STOREY 8390 SQ.FT. INCORPORATING 2 DOUBLE-DEPTH DIRVE-THROUGH APPARATUS BAYS, SCBA EQUIPMENT, STAND-BY GENERATOR, GEAR WASHER & DRYER, GEAR ROOM, WORK ROOM AND CREW QUARTERS CONSISTING OF KITCHEN, DINING, LOUNGE, CAPTAIN'S OFFICE, EXERCISE ROOM, TRAINING ROOM, FALE & FEMALE WASHROOMS & SHOWERS AND INDIVIDUAL DORMS FOR 6.

References

TOWN OF RICHMOND HILL: STEVE MORGAN, PROJECT MANAGER (905) 771-2518
RICHMOND HILL FIRE & EMERGENCY SERVICES: CHIEF STEVE KRAFT (905) 780-2898 EXT. 223



Whitchurch-Stouffville Fire Department Headquarters
York Region EMS
Stouffville ON
2010

## 2010 GOLD AWARD WINNER

**PROJECT** 

**DESCRIPTION:** 18,800 SQ.FT. FIRE DEPARTMENT HEADQUARTERS AND EMS STATION INCORPORATING ADMINISTRATION AND TRAINING FACILITIES, TRAINING TOWER, BELL TOWER AND HERITAGE LOBBY, AND QUARTERS FOR FIRE AND EMS CREWS.



TEAM

OWNER TOWN OF WHITCHURCH-STOUFFVILLE
OCCUPANT WHITCHURCH-STOUFFVILLE FIRE DEPARTMENT, YORK REGION EMS
CONTRACTOR NORLON BUILDERS LONDON LTD.
STRUCTURAL HALCROW YOLLES LTD.
MECHANICAL SMITH & ANDERSEN CONSULTING ENGINEERS
ELECTRICAL MULVAY & BANANI INTERNATIONAL

COST

COMPLETION JANUARY 2010 SCHEDULE 44 WEEKS TENDER PRICE \$5,508,400.00 CONTRACT PRICE \$5,508,400.00

SITE SERVICES MARSHALL, MACKLIN, MONAGHAN

**PROGRAM** 

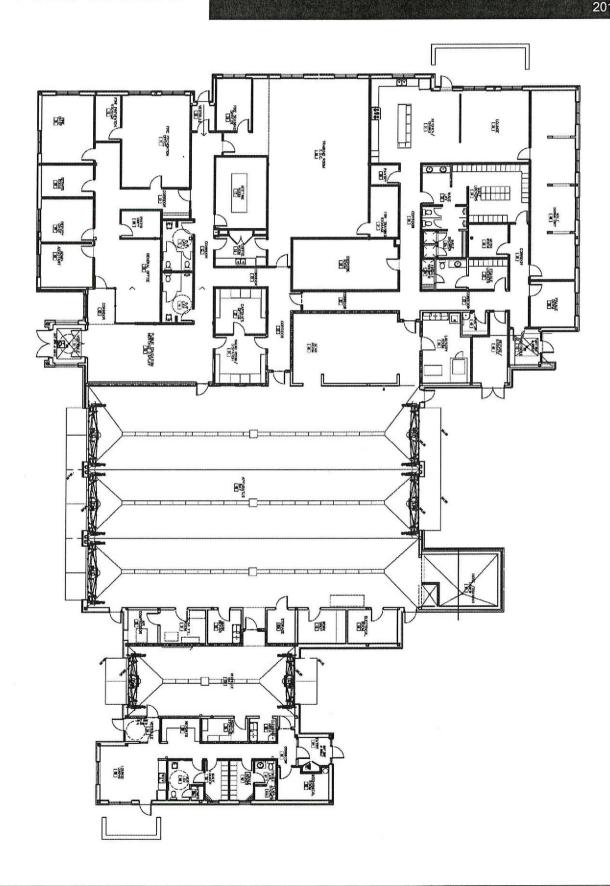
FIRE: 3 DOUBLE-DEPTH DRIVE-THROUGH VEHICLE BAYS, HOSE / TRAINING TOWER, GENERATOR ROOM, AIR FILL, LAUNDRY, MECH/ELEC ROOM, CAPTAIN'S OFFICE AND DORM, ADMINISTRATIVE OFFICES, MUSEUM LOBBY, DORMITORY, EXERCISE ROOM, MALE AND FEMALE WASHROOM FACILITIES, FIRE PREVENTION OFFICES, TRAINING ROOM, DAYROOM, DINING + KITCHEN FACILITIES, BARRIER-FREE ACCESS AND WASHROOM FACILITIES.

EMS: SINGLE DRIVE-THROUGH VEHICLE BAY, KITCHEN/LOUNGE, MALE & FEMALE FACILITIES, REPORTS OFFICE, MED AND OXYGEN STORAGE, CLEAN ROOM.

REFERENCES

WHITCHURCH-STOUFFVILLE FIRE: ROB MCKENZIE, CHIEF (905) 640-9595 X 225 REGION OF YORK: STEVE HORVAT, PROJECT MANAGER (905) 830-4444 X 1710







**DESCRIPTION:** 10,674 SQ.FT. FIRE STATION INCORPORATING MECHANICS' BAYS, FIRE PREVENTION AND PUBLIC EDUCATION FACILITIES.



#### Client + Consulting Team

OWNER CITY OF OSHAWA
OCCUPANT OSHAWA FIRE DEPARTMENT
CONTRACTOR GAY COMPANY LIMITED
STRUCTURAL STEPHENSON ENGINEERING LTD.
MECHANICAL/ELECTRICAL REGAL ENGINEERING INC.
SITE SERVICES MMM GROUP
LANDSCAPE ARCHITECTS HARRINGTON & MCCAVAN LANDSCAPE ARCHITECTS

#### Cost

COMPLETION SCHEDULED FOR JULY 2016 SCHEDULE 47 WEEKS TENDER PRICE \$3,214,000 CONSTRUCTION \$TBD

#### Program

FIRE: 2 DOUBLE-DEPTH DRIVE-THROUGH VEHICLE BAYS +2 DOUBLE-DEPTH DRIVE-THROUGH MECHANICS BAYS WITH 2 HOISTS, AIRMATION AIR FILTRATION UNITS, GENERATOR ROOM, AIR FILL, TRAINING TOWER, LAUNDRY, MECH/ELEC ROOM, CAPTAIN'S OFFICE AND DORM, TRAINING ROOM / DORMITORY, EXERCISE ROOM, MALE AND FEMALE WASHROOM FACILITIES, FIRE PREVENTION OFFICES, TRAINING ROOM, DAYROOM, DINING + KITCHEN FACILITIES, BARRIER-FREE ACCESS AND WASHROOM FACILITIES.

#### References

THE CITY OF OSHAWA: TOM HODGINS, DIRECTOR SPECIAL OPERATIONS (905) 436-5636 X2361 PETER PATON, MANAGER CONSTRUCTION COORDINATION (905) 436-5636 X2420 OSHAWA FIRE DEPARTMENT STEVE MERRINGER, FIRE CHIEF (905) 436-3899



#### **PROJECT EXPERIENCE 1974 - 2016 Ambulance Stations** Markham Fire Training Centre Planning Study 1990 1989 Training Tower for York Fire Department 2011 Toronto EMS - Turnbury Headquarters 2009 Halton Region EMS - South Oakville 1986 North York Smoke Training Centre and Subway Halton Region EMS - Burlington 2006 Disaster Training Centre 2002 Halton Region EMS Station - Oakville Scarborough Fire Training Centre and Training Fire 1984 York Region EMS - Cane Parkway Station Renovations to Toronto EMS Station 34 1983 North York Fire Training Centre Toronto EMS North East Hub Mississauga Fire Training Centre\* 1978 Toronto EMS Station 19 2001 Halton Region EMS Station - Milton Fire/EMS Stations Halton Region EMS Station - Acton York Region EMS Station - Unionville (addition to 2009 Whitchurch-Stouffville Fire/EMS Station Markham Fire Station 95) 2008 Georgetown Central Fire/EMS Station York Region EMS Station - Markham (part of the 2008 Mississauga Fire/EMS Station new Markham Fire Station 92) 2005 West Brant Fire Ambulance Station #4 Regional Municipality of Halton EMS Ambulance Markham Fire/York Region EMS Station 92 2004 Response Stations Prototype 2003 Sheppard Avenue East Emergency Services Sheppard Avenue East Emergency Services Station, City of Toronto Station, Toronto Region of York EMS Ambulance Response Station 2000 Fire/Police/EMS Stations Prototype Halton Hills Ambulance Station, Preliminary Site Evaluation & Schematic Design 2008 Guelph South End Emergency Services Station 1989 New Metro Ambulance Station/ Paramedic Centre, City of York Fire/Police Stations New Metro Ambulance Station, City of North York 1983 1981 New Metro Ambulance Station, City of Scarborough 2003 Courtice Fire Station/Durham Region Police Offices Fire Department Headquarters Fire Stations 2009 Whitchurch-Stouffville Fire Headquarters Georgetown Fire Department HQ 2008 2016 City of Oshawa Fire Station 6 1995 Kincardine Fire Department HQ Town of East Gwillimburg Queensville Fire Station 2015 1994 Clarington Fire Department HQ - Coordination of 2015 Town of East Gwillimburg Mt. Albert Fire Station Design-Build Guelph Fire Station 3 Renovation 2015 1993 East York Fire Department HQ Guelph Fire Station 2 Renovation 2012 York Fire Department Communications Centre 1992 2012 Markham Fire Station 99 1991 Whitby Fire Department HQ Richmond Hill Firestation 86 2012 1989 York Fire Department HQ Toronto Fire – Eglinton 2011 1978 Richmond Hill Fire Department HQ\* Toronto Fire-Chaplin 2011 1974 Mississauga Fire Department HQ\* 2009 Markham Fire Station 93 2009 Toronto Fire York University Municipal Emergency Operation / Comm Centres 2009 Brampton Fire Stations 205 & 212 Toronto Old Leslie Street Fire Station 2007 2012 Markham Communications Centre 2006 Oshawa Fire Station 5 2006 Toronto Heavy Urban Search and Rescue Facility Enniskillen Fire Station Addition, Clarington 2003 Toronto 911 Call Centre Renovations Aurora Fire Station 44 Town of Richmond Hill EOC 2000 Whitby Fire Station 01, Brooklin 1997 Clarington Municipal Operations Centre East End Fire Station, Guelph 2005 Town of Whitby EOC Markham Fire Station 98 2001 Fire Station Number 03, Town of Whitby Fire Training Facilities Holland Landing Fire Station 24, East Gwillimbury 2000 Whitby Fire Station Number 06 2012 Kingston Fire Training Props Township of King Fire Hall 34 (including the Offices 2011 Brampton Training Tower of the Fire Chief) 2009 City of Barrie Fire Training Facilities Richmond Hill Fire Station Number 05 (including the Richmond Hill Fire Training Facilities 2008 Offices of Fire Prevention) Toronto Fire Academy Addition and Alterations 2002 Mississauga Fire Station Number 119 1999 Waterloo Region Emergency Services Training and 2001 (Replacement), Pearson International Airport Mississauga Fire Station Number 117 Research Complex: Fire Training Structure Richmond Hill "Russell Curly Lynette" Fire Station Administration Building Number 04 Scarborough Fire Station Number 08 Addition and Fire Research Facility for University Waterloo 1998 1995 Oakville Fire Training Centre Planning Study Renovation Mississauga Fire Training Centre Addition and 1994 CFB Borden Fire Station Addition and Retrofit -Upgrade Design-Build

Scarborough Fire Station Number 01

Whitby Fire Department Teaching Facility (in the Fire

Department Headquarters)

1991

# THOMASBROWN ARCHITECTS

1997	Mississauga Fire Station Number 104 Renovations	2002	Ontario Fire College Expansion and Renovation Feasibility Study, Office of the Fire Marshall
1996	East York Fire Station Number 03 Mississauga Fire Station Number 118		,,
	Sheffield Fire Hall, Tamworth		
Fire Sta	ations cont'd	2002	Clarington Municipal Operations Centre Expansion Feasibility Study, Municipality of Clarington
1995	Stoney Creek Fire Station Numbers 2 & 4 Design-Build Mississauga Fire Station Number 119, Pearson International Airport	2001	Carleton University / NRC Fire Research Facility Turnberry Avenue EMS Station Feasibility Study, City of Toronto Chaplin Crescent Emergency Services Station
	Markham Fire Station Number 96		Feasibility Study, City of Toronto
1995	East York Fire Station Number 2 Renovations		Royal York Road Fire Station Expansion Feasibility
1994	Mississauga Fire Station Number 115		Study, City of Toronto
	Renovations		Communications Centre Addition to Fire Station 95,
	Scarborough Fire Station Number 07		Assessment Study, Markham Fire Department
1993	Oakville Fire Station Number 6		Royal York Rd. Emergency Services Station
1992	Halton Hills Churchill Road Fire Station		Feasibility Study, City of Toronto
1989	Mississauga Fire Station Number 114	2000	Toronto Fire Services Training Facilities, Current
	Oakville Fire Station Number 05		Usage and Future Needs Analysis
1988	Oakville Fire Station Number 01		Markham Combined Emergency Services
	Oakville Fire Station Number 02		Communications Centre Proposal
1984	North York Fire Station Number 18		Mississauga Fire Training Centre Burn House Life
	Mississauga Fire Station Number 3		Expectancy Assessment
1983	North York Fire Station Number 15		Toronto East Fire/Ambulance Station Potential Site
	North York Fire Station Number 7		Assessment
	Scarborough Fire Station Number 02		Mississauga Fire Station 121 Potential Site
1982	Mississauga Fire Station Number 10		Assessment
1981	Scarborough Fire Station Number 15	1999	Markham Back-Up Emergency Operations Centre
1980	Mississauga Fire Station Number 6 Addition	1000	Feasibility Study
1977	Erindale Fire Station, Mississauga*	1996	Oakville Fire Training Centre Planning Study
1976	Mississauga Fire Station Number 9*		Scarborough Fire Stations - Feasibility Study on
1975 1971	Oakridges Fire Station, Richmond Hill*	4004	Upgrading
19/1	Mississauga Fire Station Number 7* Mississauga Fire Station Number 6*	1994	Scarborough Fire Stations Relocation Feasibility Study
Studies			
2006	Oshawa Fire Station 6 Markham Cathedral Fire Station	*	completed by Tom Brown while a partner with Allen Brown and Sherriff Architects
	Markham Cornell Fire Station		Brothi and Onorm / Normooto
	Bradford West Gwillimbury Addition to HQ		
2005	Belleville Fire Department HQ Programme		
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Whitby Fire Department Headquarters, Whitby ON, 1992