

Niagara Regional Police Headquarters A 10-Year Journey



Copyright Notice

This presentation is protected by US and International Copyright laws. Reproduction, distribution, display and use of the presentation without written permission of the speaker is prohibited.

© The American Institute of Architects 2016

AIA/CES Compliance Statement

"AIA Knowledge" is a Registered Provider with The American Institute of Architects Continuing Education Systems (AIA/CES). Credit(s) earned on completion of this program will be reported to AIA/CES for AIA members. Certificates of Completion for both AIA members and non-AIA members are available upon request.

This program is registered with AIA/CES for continuing professional education. As such, it does not include content that may be deemed or construed to be an approval or endorsement by the AIA of any material of construction or any method or manner of handling, using, distributing, or dealing in any material or product.

Questions related to specific materials, methods, and services will be addressed at the conclusion of this presentation.

AIA/CES Reporting Details

All attendees will be eligible to receive AIA continuing education for attending this course by completing the electronic form sent via email after the conference.

Continuing education questions can be directed to aaj@aia.org.

Niagara Regional Police Headquarters A Long Journey

This session will tell the story of how one of the most important recent police projects in Canada overcame many challenges and roadblocks – from service delivery and community issues, through political and funding challenges, location questions, budget constraints, design and construction.

This story will illustrate that design is only a small part of the challenges a project often faces, and will provide lessons learned for any agency contemplating a similar facility renewal program.

Learning Objectives

- 1. Navigating the political landscape and balancing multiple and diverse stakeholder interests
- 2. The benefits and value of preparing defensible and evidence-based arguments for facility renewal programs
- 3. The benefits of collaborative efforts amongst facility funding entities, owners, users and consultant teams
- 4. Balancing limited construction budgets against space and facility priorities

Niagara Regional Police Headquarters A 10-Year Journey

POLICE

Presenters



John E. Pepper, OAA, SAA, MRAIC, AIA Int'l Assoc. LEED AP Rebanks Pepper Littlewood Architects Toronto, Ontario

35 years in police, high-security & public safety facilities



Dean Roberts, AIA, NCARB, OAA McClaren Wilson & Lawrie Architects, Inc.

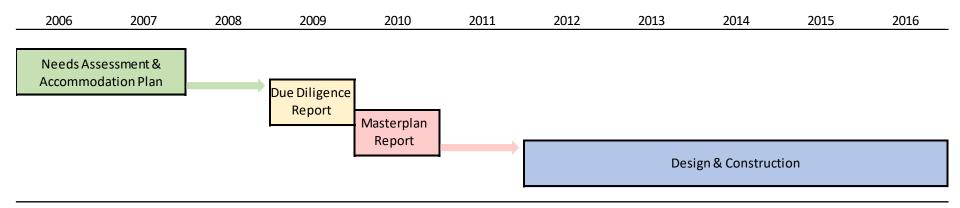
Illinois, Arizona, Virginia 40 years experience in police & justice facilities



Richard Frayne, Superintendent **Niagara Regional Police Service**, Ontario *Police Headquarters Project Liaison Officer*

Four distinct project assignments 2006-2016:

- 1. Needs Assessment & Accommodation Plan (RPL)
 - 2. Due Diligence/Peer Review (MWL)
 - 3. Masterplan (MWL/RPL)
 - 4. Design & Construction (RPL/MWL)



Slide 10

What did it take to become a reality?

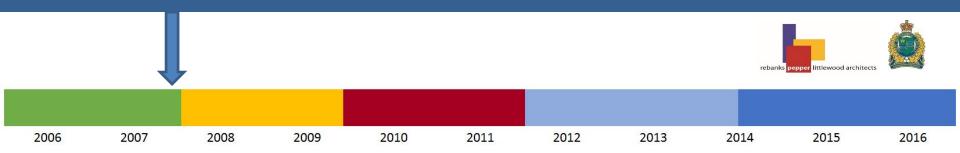


- 1. Planning the Journey Needs assessment & accommodation plan
 - 2. Challenges Due diligence, peer review, stakeholder dispute
 - **3.** The End in Sight Project master plan
 - 4. Moving Forward Again Project approval & design
 - 5. Reaching the Destination Construction



1-Starting Out

Needs Assessment & Service Delivery (2006-2008)



We Need to do Something – But What?

- Policing services in Niagara Region
- Recognizing a need for new facilities
- Service delivery, organization and planning options
- Benefits of centralization
- Balancing operational efficiencies and community expectations

1.1-Police Service Delivery

The Regional Municipality of Niagara



1.2-Police Service Delivery

Background & History

- Regional Policing in Niagara and its communities
- History and legacy*
- Implications of current facility arrangement
- Regional precedents*
- Board and Regional government roles & responsibilities



Slide 15

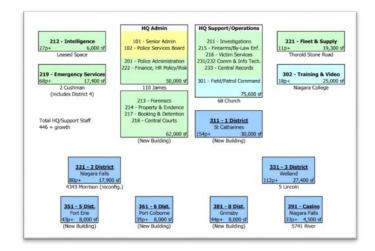
Building a Facility Model – Quantification

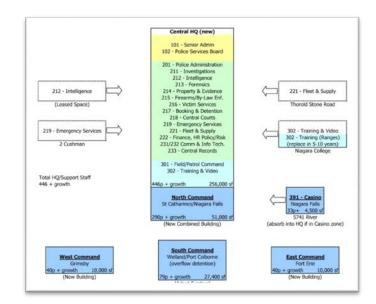
- Population growth & demographics 7-10% increase over 15 yrs
- Police service demand
- Police-to-population ratios
- Future police resource projections 16% increase
- Space & facility needs 335,000 sq.ft to 2021 (15 yrs)
- Accommodating growth & change

1.4-Facility Distribution Models

Police Delivery Across the Region

- Efficiencies through centralization
- Community needs & expectations
- Police presence & deployment
- Optimization what's best for Niagara Region?
- The HQ/District model
- Options





1.5-Benefits of Centralization

Efficiencies & Improvements

- Cost savings & efficiencies
- Improved communication & cooperation
- Better use of resources (people, space, equipment, vehicles)
- Ability to adopt new practices & policies (central booking, property & evidence)

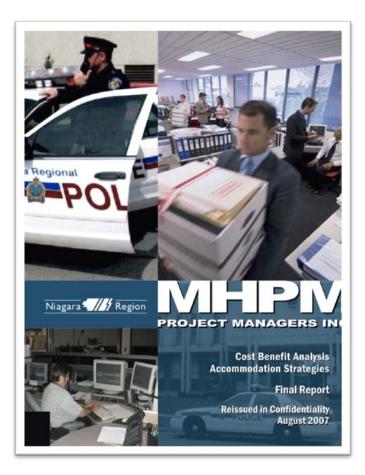


Model B2 – Five Corners

1.6-Cost Benefit Analysis

Recommendations

- Model B represents best value for money while meeting expectations of different communities
- 2. Achievable operational savings through efficiencies
- 3. Improvement in communications, span of control & quality



Slide 19

1.7-Site Selection

A Suitable Headquarters Location

- Police Services Act requirements
- Regional access & operational (convenience)
- Locating suitable sites
- Site selection criteria & evaluation
- Recommendations



1.8-Site Selection

н

В

Ca

Hydro

Bell

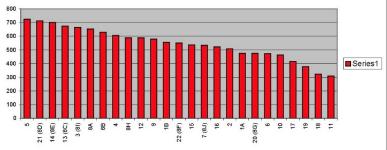
Cable



NRPS HQ – Preliminary Site Evaluation - May 21, 2008

Ref.	Site Name	Municipality	Area	Score	Zoning	PPS	Existing Structure	Serviced	Transit	Risks	Flood	CBSA	Other
5	York Road/Concession 7	NOTL	33 ac	723	PI	Yes	No	W S St G H B	No	No	TBC	Yes	other
21 (8D)	7736 Mountain Road	Niagara Falls	23 ac	712	ТС-Н	Yes	No	WSStGHB	No	No	100	Yes	
14 (8E)	Niagara Sports Centre	Niagara Falls	56 ac	700	A Conser	100	No	WGH	Yes 4	No	Creek	Yes	Future S
13 (8C)	Mountain Road/Mewburn	Niagara Falls	29.9 ac	673	A NEC	Nea	No	WS	No	No	Welland R.		SWM
3 (8I)	Lyons Creek/Montrose	Niagara Falls	42 ac	663	TC-H PI-H	Yes	110	WSGHB	No	No	Wendha R	Yes	EPA
8A	Montrose Business Park	Niagara Falls	54.59 ac	652	PI EPA	Yes	No	WSSLGHB	Yes 4	No		Yes	SWM
8B	Mewburn Road	Niagara Falls	92.36 ac	629	A NEC	Nea	No	WGHB	No	No		Yes	
4	509 Glendale Ave E	NOTL	33 ac	605	PI	neg	Yes	WSStGHBCa	No	No		Yes	
8H	7893-8003 Montrose Rd	Niagara Falls	15.09 ac	589	TC		No	WSStGHB	Yes 4	No		Yes*	
12	East Glendale	NOTL	49.91 ac	588	A Conser	Yes	No	noocono	No	No	Creek	Yes (3)	Rezoning
9	353 Townline Road	NOTL	28.15 ac	579	LI		Yes	WSGH	No	No	oreen	Yes	ricconing
1B	York Road/Townline	NOTL	13.1 ac	556	PI		No		No	No		Yes*	
22 (8F)	4001 Fourth Avenue	Niagara Falls	100 ac	550	HI I PI			WSStGH	Yes 5	No		Yes	Extend G
15	Rice Road/Hwy 20	Pelham	12.12 ac	536	A-H	Yes	No	W S St G H Ca	No	No	Creek	No	Rezoning
7 (8J)	Beechwood/McLeod	Niagara Falls	20 ac	534	LI	Yes	No	No	No	No		No (3)	5
16	Buchnor Road/Hwy 140	Welland	40 ac	521	A	Yes	No	WSGHB	No	No		Yes	SPA only
2	Chippewa Creek Rd	Thorold	100 ac	507	HI	Yes	No	WSStGH	No	No		No	
1A	York Road (West & East)	NOTL	7.0 + 6.0 ac	474	PI E	Yes	No		No	No		Yes (3)*	Non contig
20 (8G)	Stamford St/Hwy 420	Niagara Falls	12.25 ac	474	LI		Yes	WS StGHB	Yes 4	Power Lines	Crk+Pond	Yes*	-
6	Regency Motel Site	Niagara Falls	9.8-10.69	472	A		Yes	WH	Yes 3	No		Yes*	Zoning Am
10	Hwy 58/Collier	Thorold	10.91 ac	462	LI-13	Yes	No		Yes	No		No	5
17	Hair Cloth Site	St. Catharines	8.7 ac	414	BC		Yes	WS St	Yes 5	Railway	Yes	No	Rezoning
19	71 Carlisle Street	St. Catharines	1.11 ac +	376	BC		Yes	WS St	Yes 17	No		No	-
18	68 Church Redevelopment	St. Catharines	2.45 ac	323	BC		Yes	WS St	Yes 4	No		No	
11	427 Merritt Street	St. Catharines	11.8 ac	309	R5-H CR		Yes	WGH	Yes 1	No		No	Rezoning
А	Agricultural -difficult	H Holdina											

A	Agricultural -difficult	H Holding				
BC	Business Commercial	E Enterprise	800 1			
CR	Commercial Residential	SWM Storm Water Management	700 -		_	
Conser	Conservation Area	PPS Provincial Policy Statement				
HI	Heavy Industrial	EPA Environmental Protection Area	600 -	HF		
I	Institutional		500			
LI	Light Industrial					
NEC	Niagara Escarpment Commission		400	HF		11
NPA	Niagara Protection Area		300 -			
PI	Prestige Industrial (M-5)					
R	Residential		200 -	HF		11
TC	Tourist Commercial		100			
W	Water	CBSA* Location Suitable but site area	0			
S	Sanitary	less than recommended	4	, Ö	E	(8C)
St	Storm			51	14	13
G	Gas					



1.8-Site Selection

G

н

В

Ca

Gas

Bell

Cable

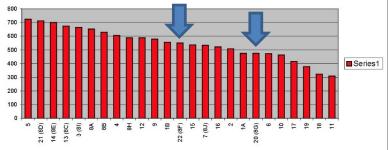
Hydro



NRPS HQ – Preliminary Site Evaluation - May 21, 2008

							Existing						
Ref.	Site Name	Municipality	Area	Score	Zoning	PPS	Structure	Serviced	Transit	Risks	Flood	CBSA	Other
5	York Road/Concession 7	NOTL	33 ac	723	PI	Yes	No	W S St G H B	No	No	TBC	Yes	
21 (8D)	7736 Mountain Road	Niagara Falls	23 ac	712	TC-H	Yes	No	W S St G H B	No	No		Yes	
14 (8E)	Niagara Sports Centre	Niagara Falls	56 ac	700	A Conser		No	WGH	Yes 4	No	Creek	Yes	Future S
13 (8C)	Mountain Road/Mewburn	Niagara Falls	29.9 ac	673	A NEC	Neg	No	WS	No	No	Welland R.	Yes	SWM
3 (8I)	Lyons Creek/Montrose	Niagara Falls	42 ac	663	TC-H PI-H	Yes		WSGHB	No	No		Yes	EPA
8A	Montrose Business Park	Niagara Falls	54.59 ac	652	PI EPA	Yes	No	W S St G H B	Yes 4	No		Yes	SWM
8B	Mewburn Road	Niagara Falls	92.36 ac	629	A NEC	Neg	No	WGHB	No	No		Yes	
4	509 Glendale Ave E	NOTL	33 ac	605	PI		Yes	W S St G H B Ca	No	No		Yes	
8H	789 Montrose Rd	Niagara Falls	15.09 ac	589	TC		No	WSStGHB	Yes 4	No		Yes*	
12	East ale	NOTL	49.91 ac	588	A Conser	Yes	No		No	No	Creek	Yes (3)	Rezoning
9	3 Road	NOTL	28.15 ac	579	LI		Yes	WSGH	No	No		Yes	
1B	York A/Townline	NOTL	13.1 ac	556	PI		No		No	No		Yes*	
22 (8F)	4001 Fourth Avenue	Niagara Falls	100 ac	550	HI I PI			W S St G H	Yes 5	No		Yes	Extend G
15	Rice Road/Hwy 20	Pelham	12.12 ac	536	A-H	Yes	No	W S St G H Ca	No	No	Creek	No	Rezoning
7 (8J)	Beechwood/McLeod	Niagara Falls	20 ac	534	LI	Yes	No	No	No	No		No (3)	
16	Buchnor Road/Hwy 140	Welland	40 ac	521	A	Yes	No	WSGHB	No	No		Yes	SPA only
2	Chippewa Creek Rd	Thorold	100 ac	507	HI	Yes	No	W S St G H	No	No		No	
1A	York Road (West & East)	NOTL	7.0 + 6.0 ac	474	PI E	Yes	No		No	No		Yes (3)*	Non contig
20 (8G)	Stamford St/Hwy 420	Niagara Falls	12.25 ac	474	LI		Yes	WS StGHB	Yes 4	Power Lines	Crk+Pond	Yes*	
6	Rege Motel Site	Niagara Falls	9.8-10.69	472	A		Yes	WH	Yes 3	No		Yes*	Zoning Am
10	H' er	Thorold	10.91 ac	462	LI-13	Yes	No		Yes	No		No	
17	Hair Site	St. Catharines	8.7 ac	414	BC		Yes	WS St	Yes 5	Railway	Yes	No	Rezoning
19	71 Carried Street	St. Catharines	1.11 ac +	376	BC		Yes	WS St	Yes 17	No		No	
18	68 Church Redevelopment	St. Catharines	2.45 ac	323	BC		Yes	WS St	Yes 4	No		No	
11	427 Merritt Street	St. Catharines	11.8 ac	309	R5-H CR		Yes	WGH	Yes 1	No		No	Rezoning
А	Agricultural -difficult	H Holding											
BC	Business Commercial	E Enterprise			800					_			
CR	Commercial Residential	SWM Storm Water	[.] Management		700	-			_				

BC	Business Commercial	E Enterprise	800 -			_			
CR	Commercial Residential	SWM Storm Water Management	700 -		-				
Conser	Conservation Area	PPS Provincial Policy Statement							
HI	Heavy Industrial	EPA Environmental Protection Area	600 -	-					
I	Institutional		500 -						
LI	Light Industrial								
NEC	Niagara Escarpment Commission		400 -						
NPA	Niagara Protection Area		300 -						
PI	Prestige Industrial (M-5)								
R	Residential		200 -	-					
TC	Tourist Commercial		100 -						
									l.
W	Water	CBSA* Location Suitable but site area	0 -	10	-	-	-	-	1
S	Sanitary	less than recommended		4)	(g	8	8	(8)	0
St	Storm				2	4	2	3	



1.9-A Path Forward?

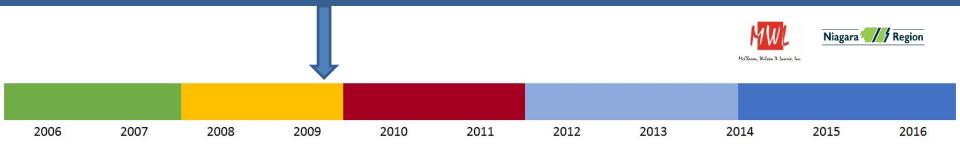
We have a Plan....

- Decision made on model to be adopted Model B2 (four corners, became five corners)
- Space and facility requirements determined 335,000 sq.ft (incl. new District stations)
- Request for funding Construction budget \$80M in 2006 (equiv. \$89M in 2009, \$100M in 2014)





2-Challenges Peer Review, Due Diligence, Disputes (2008-2009)



Due Diligence Report (August 2009)

- Peer review by subject matter experts:
 - *Review assumptions*
 - Assess strategic alignment with Region's guiding principles
- Prevailing questions
- Core assumptions
- Alternative approach
- Recommendations

2.1-Methodology & Measuring Success

Methodology

- Understanding the priorities of the NRPS & Region
- Core assumptions & evidence-based analysis
- Alignment with guiding principles
- Critical success factors

Measuring Success

- Affordable within taxpayer limits
- Improve quality and support mandated police services
- Increase organizational efficiency & productivity
- Create a logical implementation plan
- Integrated, collaborative & transparent process

2.2-Prevailing Questions

Roles & Responsibilities

- Niagara Regional Police Service & Board?
 - Business plan for service delivery
 - Provide a clear and compelling case for new facilities
- Regional Municipality of Niagara?
 - Funding for police operations
 - Funding for facilities
- Standard of performance for the delivery of police services?
 - Police Services Act & Adequacy Standards*
 - Commission on Accreditation for Law Enforcement Agencies (CALEA)

Key Findings:

- Impact of 2001 amendments to the Police Services Act
- Performance Standards
- Shared responsibilities for facility compliance

Core Assumptions:

- 1. Centralization is appropriate (model evaluation process)
- 2. Staff growth & accommodation needs, address shortfalls
- 3. Use of existing building stock (where suitable)*

2.4-Alternative Approach

A Phased Accommodation Plan

- Prioritize renewal
- Critical facilities first
- Align scope with agreed budget

NRPS Master Plan - Facility Phasing per Minutes								
Phase 1 2010 - 2012	- Property - Forensics	ecords ications & IT & Evidence Command tions poking						
	- Potential							
		1 District Station St. Catharines						
		Specialty Vehicle Location TBD (part of HQ?)						
		Upgrade 2 District Niagara Falls						
Phase 2 2016		Special Enforcemt. Frees up Cushman Rd to Central HQ						
Phase 3 2020		Admin/Business to Central HQ						
Excluded from	Scope	Fleet & Supply (remain at Thorold) Training & Video (remain at Niagara College)						
		Welland Station remains						
Currently Approved		Grimsby Station replacement under way Fort Erie Station replacement approved						

2.5-Aligning Priorities & Recommendations

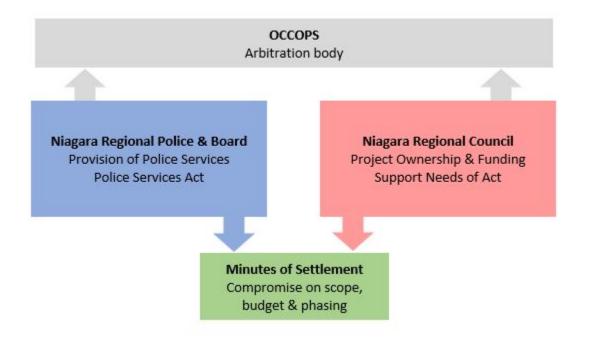
Aligning Priorities & Guiding Principles:

- Accommodate mission-critical operations
- Meet needs of line staff
- Realize full value of existing buildings
- Optimize value and costs*
- Consider alternate approach

Recommendations:

- Validate/update space needs assessment (based on staff growth)
- Develop a Master Plan establish scope, costs, location
- Develop an Implementation Plan schedule, phasing

The Minutes of Settlement (September 2009)



2.7-NRPS/Region Dispute & Settlement

The Minutes of Settlement (September 2009)

- NRPS/Region Dispute & OCCOPS
- Avoiding 3rd-party arbitration a compromise
- Included:
 - Centralized headquarters
 - New District stations in Niagara Falls & St Catharines
- Excluded:
 - Previously-approved District stations in Grimsby & Fort Erie
 - Fleet
 - Training

The Minutes of Settlement:

- Established budget ceiling (no escalation) \$83,076,100
- Jointly staffed Project Steering Committee
- Established project scope, phasing & timelines*
- Look for partnership opportunities (CBSA, IO)
- Required a Master Plan

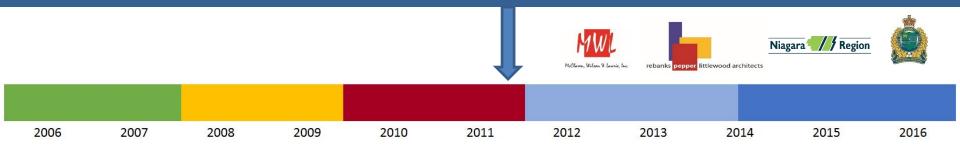
Implications:

- Limited & insufficient funding, no escalation allowance (recommended budget = \$80M in 2006, \$100M in 2014)
- Only partly addressed needs, some functions dropped
- Restricted ability to accommodate growth



Slide 34

3-Let's Get it Right A Project Masterplan (2010)



- Why a Master Plan?
- Aligning Stakeholder Interests
- Approach
- Prevailing Questions
- Measuring Success
- Process

- Scope
- Site Selection
- Budget
- Partnership Opportunities
- Project Delivery Options
- Phasing, Schedule & Timelines

3.0-Navigation & Planning

Planning the Journey:

- Where are we now?
- Where do we need or want to be?
- What lies between here and there? What roadblocks do we need to overcome? Can we see the roadblocks?
- What other risks are there?
- What's our strategy to get over (or around) the roadblocks?
- What tools do we need?







3.1-Why a Master Plan?

A Comprehensive Look at Facilities:

- Facilitate/support effective police operations
- Accommodate current & future staff & functions efficiently*
- Evaluate feasibility of using existing buildings
- Work within public policy framework
- Confirm a suitable location
- Address community concerns
- Establish an appropriate budget
- Work within Minutes



3.2-Aligning Stakeholder Interests

Bring Unity to Diverse Perspectives & Interests:

- Police operations & PSA 'Adequacy Standards'
- Public policy framework
- Meet needs & expectations of the communities
- Regional facility management
- Public stewardship
- Civic expression

	Regional Municipality
	of Niagara
	John Bergsma
	Patrick Robson
	Mike Weir
Consultants	
Dean Roberts	
• John Pepper	
	Dean Roberts

Prevailing Questions Reflecting Constituent Concerns:

- Quantity issues political constituents
- Quality issues facility users

Enable Evidence-Based Decision-making:

- Data-informed recommendations
- Clear & rational vision

Have Questions Been Adequately Answered?

• Critical success factors

3.4-Prevailing Masterplan Questions

Prevailing Questions:

- 1. How big a facility is needed?
- 2. Where should it be located?
- 3. How much will the plan cost?
- 4. When will it be implemented?
- 5. Is the plan supported by all Steering Committee members?
- 6. Have potential partnership opportunities been explored?
- 7. What is the recommended disposition for existing properties?
- 8. What is the most appropriate project delivery method?

3.5-Measuring Success

Critical Success Factors

- Best value for money, including life-cycle costs
- Potential partnership & cost-sharing opportunities
- Function, function, function supporting & enhancing operations
- Effective zoning, adjacencies & flow
- Safety & security
- Civic presence, community engagement, intuitive approachability
- Sustainable & expandable
- Project delivery method to optimize cost & risk

3.6-Masterplan Process

Considerations:

- Geography, area & population*
- Police service workload & HQ/District deployment model (B2)
- Staff requirements & operational units
- Space requirements, functional needs, codes & standards*
- Sites, testing, concepts
- Cost



3.7-Budget & Scope

Budget & Scope Implications

- Original program area (validated by peer review)
- Recommended budget (and escalation to time of tender)
- Approved budget & impact on program
- Effect of construction cost escalation

3.8-Site Selection

Site Selection Criteria

- Fresh look at available properties
- Support functional needs
- Consensus on criteria & weighting
- Shortlist & test-fit

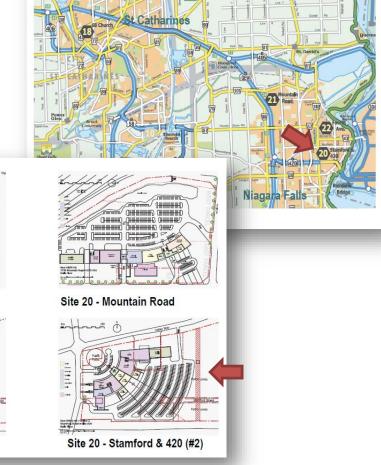
City of St Catharines unhappy to lose HQ and employees

eds &



2. Where should the facility be located?

The committee completed an interim site evaluation report in March, 2010 as a part of this Master Plan study. That report evaluated 25 sites that were submitted by property owners in response to the Expression of Interest. At the conclusion of the interim report, Region Council directed the Committee



3.9-Site Selection

Final Site Selection

- Two sites selected for more detailed evaluation, test-fit & costing
- Both were physically suitable
- Both suitable zoned
- Stamford/420 site purchased



Stamford Road Site, Niagara Falls

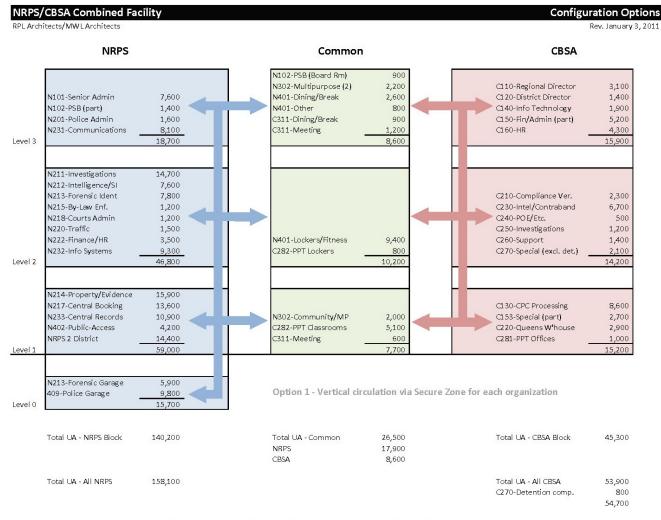
3.10-Partnership Opportunities

Canadian Border Services Agency

 Space for each organization

 Common & shared areas

 Facility governance



Space savings achieved through co-location not included above - except part of C270 deducted (NRPS central booking used).

3.11-Project Delivery Options

Design-Bid-Build

- Client retains architect, iterative design process
- Completed documents issued for Contractor bids

Design-Build

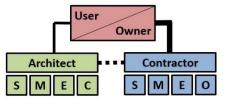
- Advocate Architect prepares Owner's Requirements (OSR)
- Design specifications for RFP to D-B teams
- Design-build teams present competitive proposals

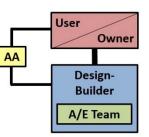
Design-Build-Finance (DBF) or Design-Build-Finance-Maintain (DBFM)

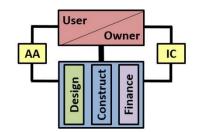
• Design Build team incentivized to factor in maintenance & operating costs to improve performance over time

Integrated Project Delivery

- Stakeholders work together in multi-party contract (owner, architect, engineers, constructor, subtrades)
- Shared risk & reward









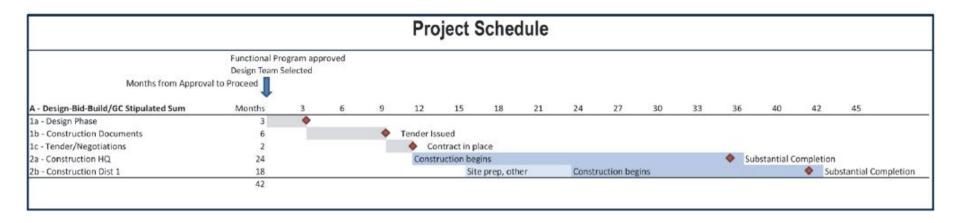
3.12-Project Scheduling & Timelines

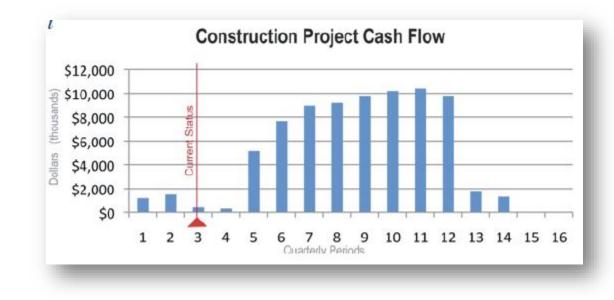
Phased implementation

- Central HQ seen as critical, no alternatives
- 1 District station St Catharines
- 2 District ultimately included in HQ project
- More logical to include administration with HQ

NRPS Master Plan - I	Facility Phasing per Minutes	5
- Property - Forensics - Executive - Investiga - Central B	ecords ications & IT & Evidence Command tions ooking	
- Intelligen - Potential		n leased space)
	1 District Station St. Catharines	
	Specialty Vehicle Location TBD (part of HQ?	?)
	Upgrade 2 District Niagara Falls	
Phase 2 2016	Special Enfo to Central H	
Phase 3 2020		Admin/Business to Central HQ
Excluded from Scope	Fleet & Supply (remain at Thorold) Training & Video (remain at Niagara College)	
	Welland Station remains	
Currently Approved	Grimsby Station replacement unde Fort Erie Station replacement appr	•

3.13-Project Scheduling & Timelines





3.14-Project Parameters & Risks

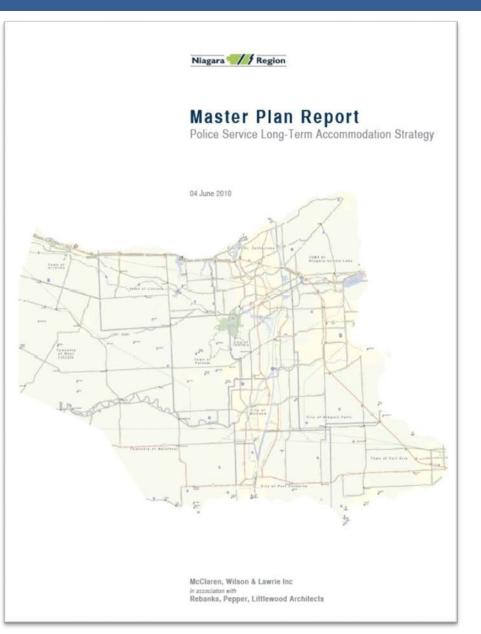
Project Budget

- Area reduced to 75%
- Construction budget reduced to 88%
- No escalation allowed, further reduction in buying power

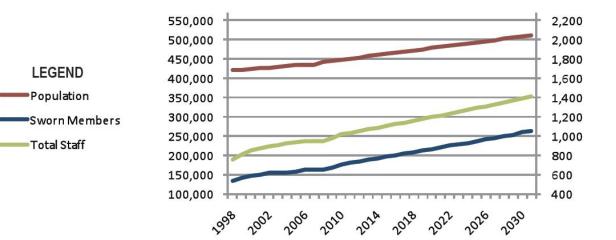
	NRPS Estimate	Minutes of Settlement	Master Plan	Master Plan
	13-Feb-2009	September-09	3-Jun-2010	1-Mar-2011
Component				1 Phase Senario
Building Area (point of beginning)	291,000 sF	291,000 sF		
Fleet		17,250 -		
Training		19,875 -		
Field & Patrol Services Command		2,750 -		
1 District		23,000 +		
Building Area / Budget Basis	291,000 sF	274,125 sғ	258,000 s⊧	220,000 si
Dhans 1. Construction Cost	\$72,800,000		\$55,404,445	\$63,970,000
Phase 1 - Construction Cost Building Construction	\$72,000,000		\$55,404,445	\$59,960,000
Site Construction				\$4,010,000
				\$1,010,000
Soft Cost	\$16,000,000		\$13,851,111	\$13,706,100
Phase 1 Cost	\$88,800,000	\$67,637,100	\$69,255,556	\$77,676,100
Phase 2 - Construction Cost			\$7,467,660	
Building Construction				
Site Construction Soft Cost			\$1,866,915	
Phase 2 Cost		\$4,006,400	\$9,334,575	
r hase 2 Cost		φτ,000,τ00	φ0,00 1 ,010	
Phase 3 - Construction Cost			\$6,870,725	
Soft Cost			\$1,717,681	
Phase 3 Cost		\$8,332,600	\$8,588,406	
Building & Site Construction Cost	\$88,800,000	\$79,976,100	\$87,178,537	
Site Acquisition	\$3,100,000	\$3,100,000	\$2,150,000	
Site Acquisition, demolition, and cleanup	φ0,100,000	ψ0,100,000	φ2,100,000	\$5,400,000
Master Plan Budget*	\$91,900,000	\$83,076,100	\$89,329,000	\$83,076,100

3.15-Masterplan Report 2010

- Executive Summary
- Planning for Growth (Staffing)
- Building & Parking Space
- Site Selection
- Concept Planning
- Costs
- Implementation Plan



3.16-Masterplan Report 2010



Projected Staff Growth vs. Projected Population Growth

	2021 (15 yrs)	2031 (25 yrs)
Region Population	484,000	511,000
Total NRPS Staff	1,215	1,418
HQ/District Space (est. in 2006)	291,000	340,000
Adjusted HQ/District Space (2010)	274,000	320,000
Recommended from Masterplan	258,000	276,000
Provided in Minutes of Settlement	220,000	n/a

3.17-Project Parameters & Risks

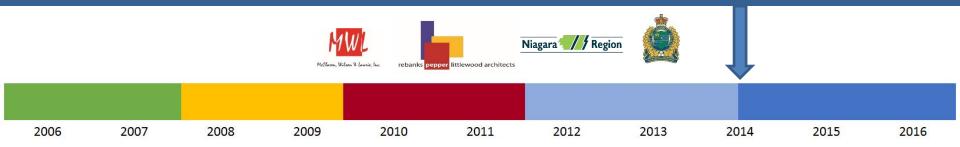
Project Parameters, Risks and Impact

- Budget Inadequacy & Funding Cap
 - Impact on building program
 - Prioritization & choices, impact on future growth
 - Risk of project failure
 - Pressure on project team





4-Moving Forward Again Approval (maybe) and Design Team Selection



Slide 54

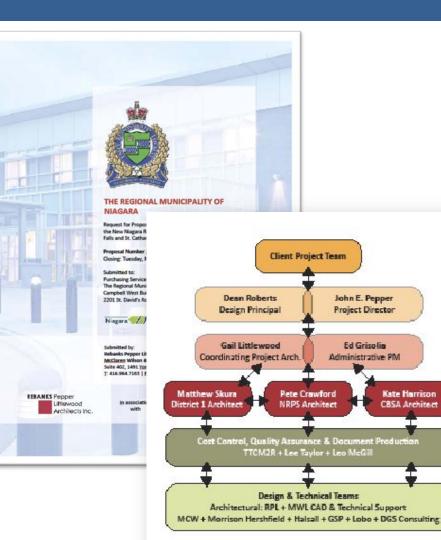
- Design Team Selection
- Precedents & Best Practices
- Design Objectives, Principles, Concepts
- Detailed Design
- Cost Control
- Tendering (Bidding)
- Regional Council Approval (budget cap)

Slide 55

4.1-Design Team Selection

A Logical Team

- Intimate project knowledge
- Unparalleled experience
- Approach & methodology
- CBSA potential partner
- Site had been purchased



1.5 – Team Organization

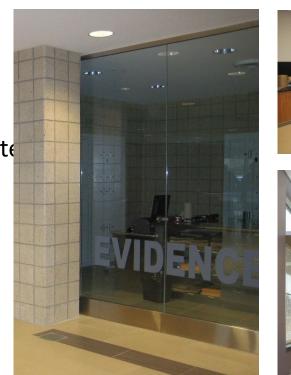
А project of this magnitude requires а robust and wellorganized team structure. Clear lines of communication and defined responsibilities are essential, but the ability for individual team members to back up or fill in for other key team members is also important. Our team will be set up to facilitate effective creative input and involvement of key participants, both at internal design meetings and during user and stakeholder workshops and design reviews.

Rather than being seen as a duplication of effort, under the proper team structure members will participate actively in the process and will be familiar with both major and minor design decisions and project priorities.

4.2-Precedents & Best Practices

Precedents & Best Practice

- Processes & policies
- Technical
- Human factors
- Architectural expression & content













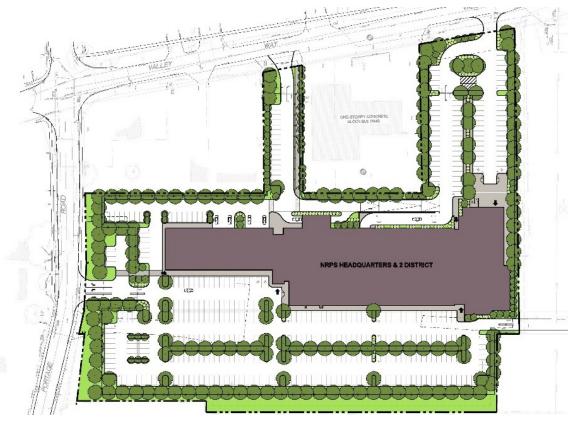
4.3-Design Collaboration



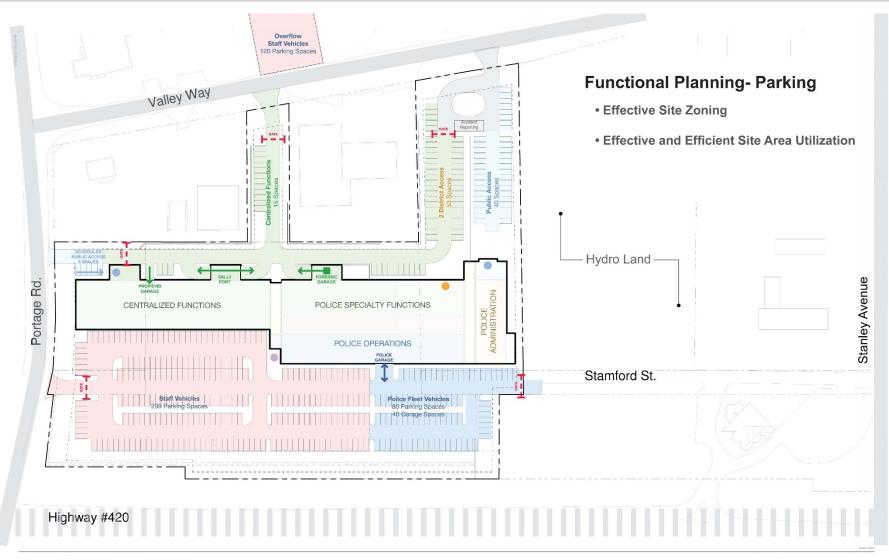
4.3-Design Objectives, Principles & Concepts

Primary Design Objectives & Challenges

- Positioning building on site
- Blocking & stacking in response to topography
- Main street corridor
- Three blocks (admin, support/operations & technical)
- Co-locating previously separate functions
- Integrating 2 District
- Cost-conscious solutions



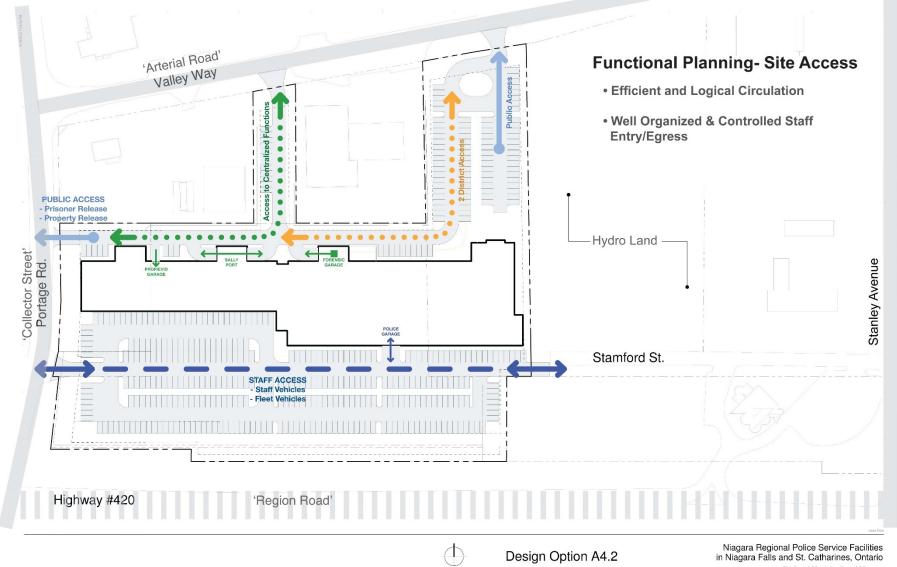
Operational Zoning



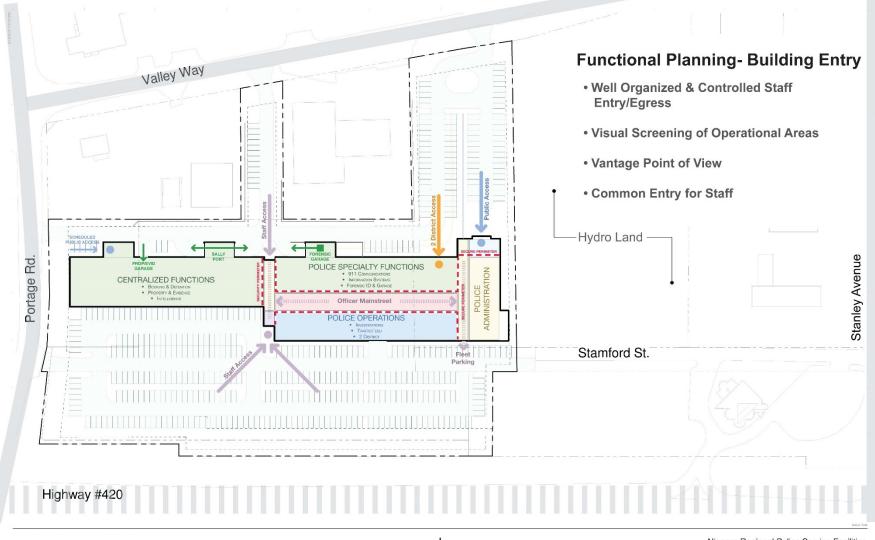
Design Option A4.2

Niagara Regional Police Service Facilities in Niagara Falls and St. Catharines, Ontario

Operational Flow



Functional Adjacencies

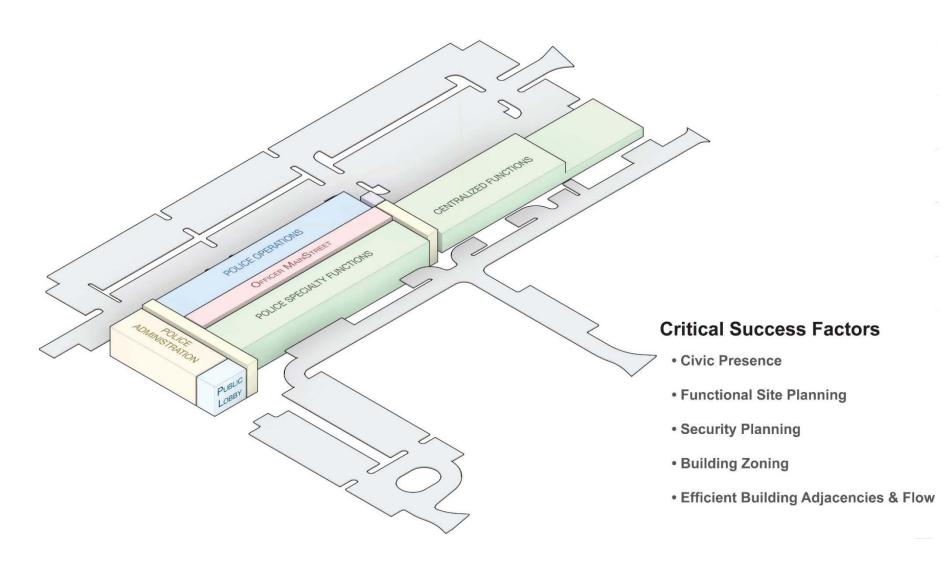




Design Option A4.2

Niagara Regional Police Service Facilities in Niagara Falls and St. Catharines, Ontario Regional Municipality of Niagara

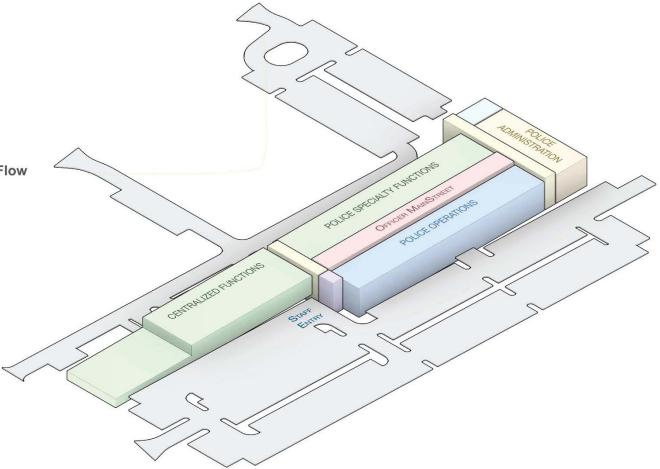
Function and Site Inform Massing



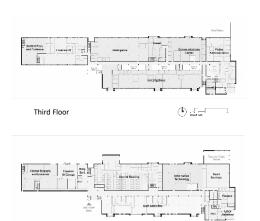
Site and Building Relationship

Critical Success Factors

- Civic Presence
- Functional Site Planning
- Security Planning
- Building Zoning
- Efficient Building Adjacencies & Flow



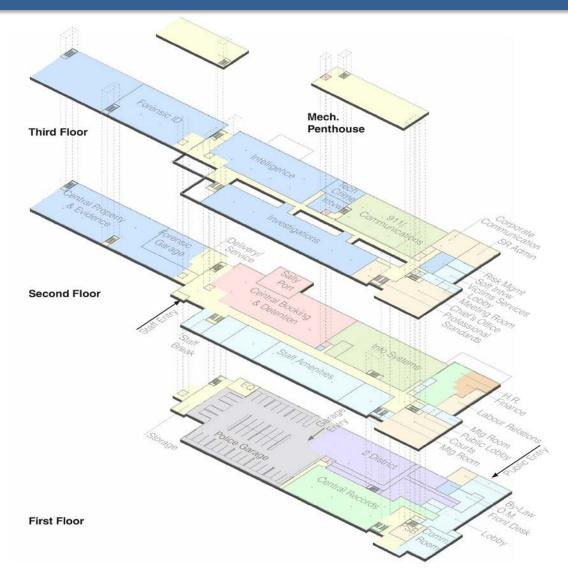
Effective Operational Flow



Second Floor (ி) நூ

First Floor





Civic Values

Stability:

- Grounded- enduring
- Mass- substantial & solid
- Durable- long lasting

Transparency:

• Degrees of transparency

Multi-faceted:

- Many components/ One facility
- Complex expressed simply

Scale & proportion:

- Context: city, neighborhood, site
- Public expression
- Human interaction Intuitive:
- Security / Safety



View of NRPS Headquarters/ 2District Facility from Hwy 420

Civic Values

Stability:

- Grounded- enduring
- Mass- substantial & solid
- Durable- long lasting

Transparency:

• Degrees of transparency

Multi-faceted:

- Many components/ One facility
- Complex expressed simply

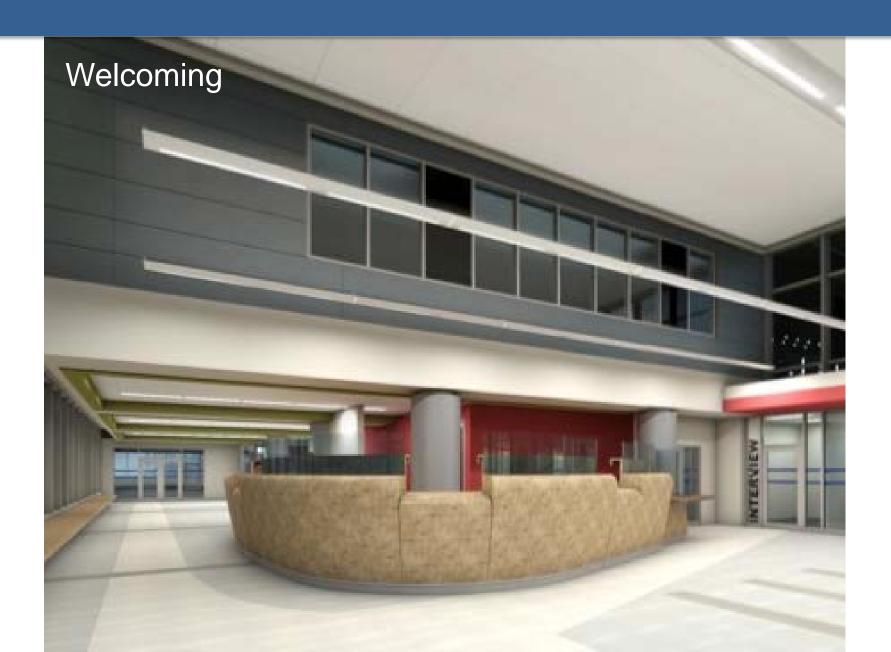
Scale & proportion:

- Context: city, neighborhood, site
- Public expression
- Human interaction Intuitive:
- Security / Safety



View of NRPS Headquarters/ 2District Facility from Hwy 420







Slide 70

4.4-Detailed Design

- Front desk & public lobby
- Central Booking
- Investigations
- Interview suites
- FIS labs
- 911 Communications & RTC
- Daylighting*
- Circulation & employee interaction





4.5-Cost Control

Budget & Cost Control

- Project Budget for HQ/2D & 1D = \$83,076,100
- Project Budget for HQ/2D only = \$65,860,000
- Headquarters/2D Construction/FF&E Budget = \$54.5M
- Cost Estimate = \$57.1M (mid-point)
- Expected Low Bid = \$55-56M (10% spread)
- Risk of not getting Regional Council approval
- Aggressive cost control required throughout



Slide 72

4.6-1 District Station

The 1 District Problem

- Relocation from St.
 Catharines
- Site difficulties
- Put on hold
- Budget allocation

= political opposition



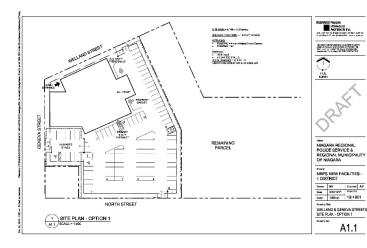
4.7-1 District Station

Location & Site Issues (2012)

 Difficulty accommodating program & parking



- Site issues, security, planning
- Alternate sites tested





4.8-Tendering (Bidding)

Tender Day

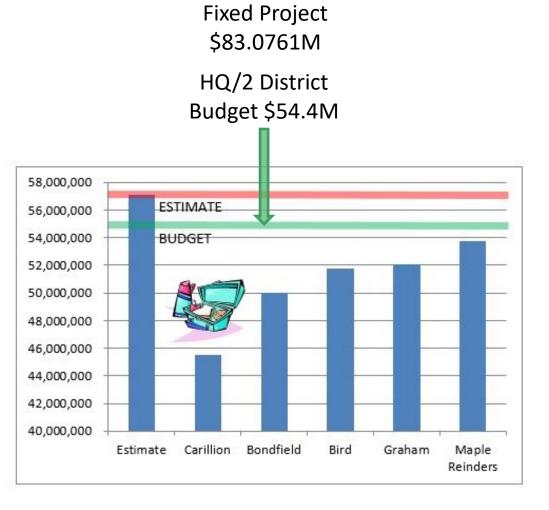
Anxiety

NRPS Bid Comparison

Sep 5, 2013 What we should expect: 2 above estimate 2 below estimate 2 other high bids

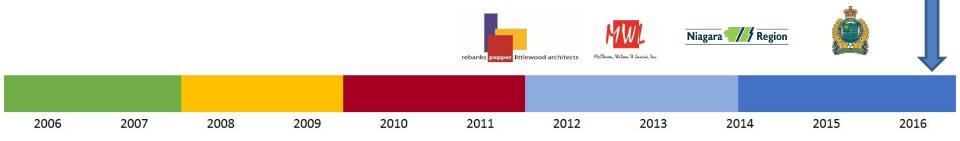
Estimate	57,142,000	
Carillion	45,500,000	- 33
Bondfield	50,026,000	4,526,000
Bird	51,750,000	6,250,000
Graham	52,080,000	6,580,000
Maple Reinders	53,775,000	8,275,000
	100/ areas	







5-Reaching the Destination Finally – Under Construction!



Construction & Occupancy

- Construction starts
- Post-contract changes
- Challenges
- Data centre issues
- Construction delays
- Project close-out & commissioning
- Move-in



HE NRPS FACILITIES QUARTERLY NEWSLETTER IS A JOINT PUBLICATION OF THE REGIONAL MUNICIPALITY OF BOARD AND THE NIAGARA REGIONAL POLICE SERVICE. OUR INTENT IS TO KEEP THE PUBLIC INFORMED ON THE LATEST N

Helping You Stay Up To Date Niagara Falls Facility

community service and efficiencies in infrastructure in mind. It will see the gara Falls District Patrol

ion with McClaren

the site has continue being poured, and concret heer) walls are being formed ree storey; 215,000 square

NRPS. units including proper and evidence for

and two cranes have been erected or site and are ready for operation. Wit both cranes in place, the contractor has access to all parts of the site and an continue to progress efficiently

on site, a mobile crane and two pumps were pite the frigid temperatures

ruction progress has only been slightly hampered by the weather



St. Catharines/Thorold Facility We are still busy trying to find the best po

For further information please contact the NRPS Corporate Communications Unit at 905-688-4111 ext. 5010 or the Police Services Board at 905-688-4111 ext. 5170

5.1-Mobilization & Construction Start







5.2-Post-Contract Changes

Add-back components & features

- Community room divider
- Fully-integrated cell security system
- Revisions to data centre HVAC system



5.3-Challenges

Impact of Contract Underpricing

- Aggressive Contractor shedding of obligations
- Subcontractor issues
- Difficult price control on extras
- Scheduling challenges



5.4-Furniture, Equipment & Move-in

911 Comm Centre FIS Labs









5.5-The Grand Opening

NEWS LOCAL

Move-In

Tuesday,
 September 20,
 2016

\$65-million building replacing NRP's Niagara Falls detachment

By Ray Spiteri, Niagara Falls Review Wednesday, September 14, 2016 6:48:30 EDT PM



Niagara Regional Police Deputy Chief Joe Matthews outside the new headquarters in Niagara Falls. The new building off Valley Way in Niagara Falls will officially open Tuesday. MIKE DiBATTISTA/Niagara Falls Review

Official Opening

 Wednesday, November 16, 2016

5.6-Post-Occupancy







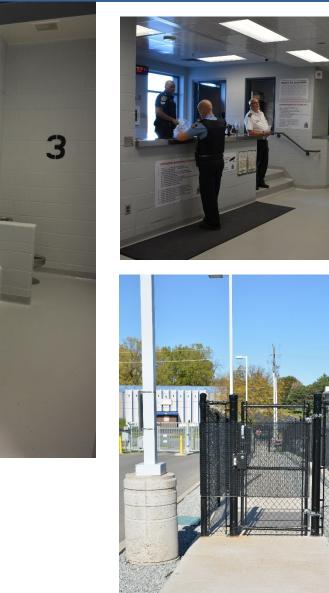


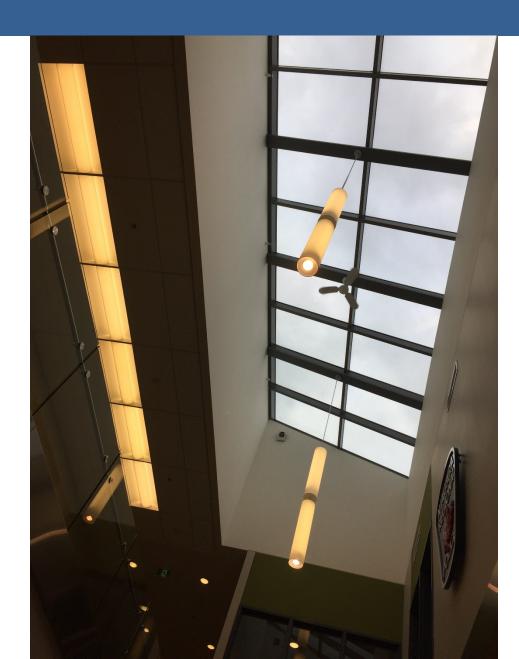


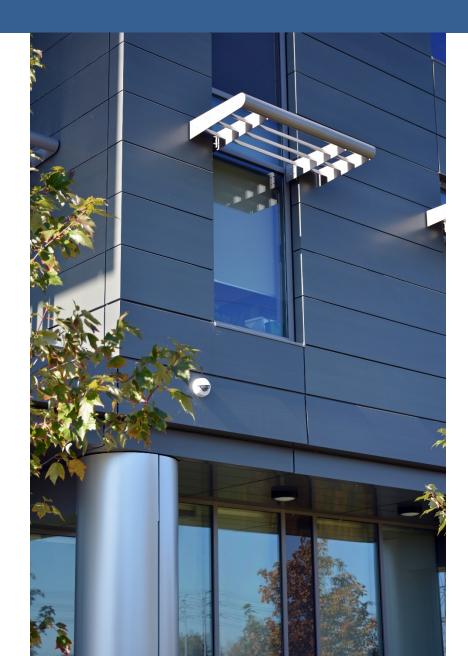
5.7-NRPS Now Setting Precedents

NRPS Precedents & Best Practice

- Central Booking & cell design
- FIS hub lab
- Property & evidence
- Exemplary daylighting solutions
- Furniture & workstation solutions







Wrap-Up Questions & Answers

What we're hoping for....

Willing to accept

Knowledge, to be

Receptive, to what other

Projects have gone through

Here,

in Cincinnati





McClasen, Wilson & Lawrie, Inc. ARCHITECTS AND PLANNERS



Wrap-Up Questions & Answers

W

Κ

R

Ρ

in Cincinnati



Wrap-Up Questions & Answers





Questions?

- Consultant team
- Police/client perspective





McClaren, Wilson & Lawrie, Inc. ARCHITECTS AND PLANNERS