PRELIMINARY SCHEMATIC DESIGN MANUAL

LONGFELLOW ELEMENTARY SCHOOL

Minot, Ward County, North Dakota

For
Minot Public Schools
Minot, Ward County, North Dakota

Healy | Bender Project No. 10-2611-147

Draft
December 12, 2011

HEALY, BENDER & ASSOCIATES, INC.
4040 Helene Avenue, Naperville, Illinois 60564 Telephone 630.904.4300 Facsimile 630.904.1515 www.healybender.com

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TAB – 1 Project Description

LONGFELLOW ELEMENTARY SCHOOL

Minot, Ward County, North Dakota

HEALY BENDER

H E A L Y , B E N D E R & A S S O C I A T E S , I N C .
4040 Helene Avenue, Naperville, Illinois 60564 Telephone 630.904.4300 Facsimile 630.904.1515 www.healybender.com

PROJECT DESCRIPTION

INTRODUCTION

This document represents the Schematic Design Phase of the design process for Minot Public Schools; Master Plan Option 2, Phase 1 approved by the Minot Public Schools to address the damaged and destroyed facilities from the recent floods.

ADDITION AND RENOVATION TO LONGFELLOW ELEMENTARY SCHOOL

Existing facility is proposed to be renovated and increased to facilitate 4 sections for each Kindergarten through 5th grade level, and 2 Pre-K classrooms. The renovated areas will include expanded Lobby with a secured access main entrance, conversion of the existing Gymnasium into a Multi-Purpose Room/Cafeteria with serving line. In addition the entire first floor area will be renovated to like new condition including new finishes such as flooring, wall surfaces, paintable surfaces, suspended acoustical ceilings and gypsum board, as well as new doors, windows, and built-in casework. On the second floor one classroom will be remodeled to allow for the corridor access to the addition and for Title 1 use, another will repurposed as a Team Resource Room (as a design deductive alternate), and the Multi-User Toilets are proposed to be renovated (as a design deductive alternate). The new additions will include a single story wing with 9 classrooms and Multi-User Toilets, a two story wing with 12 classrooms, 3 Team Resource areas (as a design deductive alternate), with stairways and elevator, and another single story addition with Gymnasium with 2 section capability, Multi-User Toilet Rooms, 2 Music Rooms, and miscellaneous accessory spaces. The additions have been placed to maintain existing window locations and allow new classrooms to have windows. The site will have reconfigured and expanded paved parking to facilitate increased staff and visitor's needs.

The schematic design process to date has been inclusive, with input gathered from the Minot Public Schools design team including select staff and administration, with constructability and budgetary input from Kraus-Anderson Construction Co., civil engineering from Ackerman-Estvold Engineering, MEP systems from Prairie Engineering, and technology systems from Elert & Associates.

The schematic design building plans, elevations, and perspective views and site plan included in this document, represent the preferred resolution of architectural challenges, project budget, functional requirements and planning considerations.

The report also includes engineering reports from the civil engineer, building structural, mechanical, and electrical engineers, and technology consultant.

TAB – 2 Building Space Program

LONGFELLOW ELEMENTARY SCHOOL

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Minot Public Schools

Addition and Renovation Longfellow Elementary School

Schematic Design - Preliminary

Healy, Bender & Associates, Inc.

Project No. 10-2611-147

Draft - December 12, 2011

Square Footage / Area Summary

	Existing to Remain			MPS Model			Schematic Design					
Space Summary	#	SF	Total SF	#	SF	Total SF	#	Remodel	Total SF	#	New	Total SF
Academic												
Pre-Kindergarten Classroom				2	1,200	2,400				2	1,040	2,080
Pre-Kindergarten Toilet				2	45	90				2	56	112
Kindergarten Classroom	1	1,034	1,034	4	1,200	4,800				3	1,078	3,234
Kindergarten Toilet	1	20	20	4	45	180				3	56	168
Storage	1	102	102									
1st Grade Classrooms				4	900	3,600				4	798	3,192
Team Resource				1	900	900				1	768	768
2nd Grade Classrooms				4	900	3,600				4	798	3,192
Team Resource				1	900	900				1	768	768
3rd Grade Classrooms				4	900	3,600				4	798	3,192
Team Resource				1	900	900				1	768	768
4th Grade Classrooms				4	900	3,600				4	798	3,192
Team Resource				1	900	900				1	768	768
5th Grade Classrooms	4	697	2,788	4	900	3,600						
Team Resource	1	450	450	1	900	900						
			4,394						**0**			**21,434**
Special Education												
Title I				1	900	900	1	756	756			
Speech				1	450	450				1	262	262
ERI	1	129	129									
HI and SLD	1	241	241	1	450	450						
			370						**756**			**262**
Music												
Music	2	761	1,522	1	1,200	1,200						
Music Storage	1	21	21	1	600	600						
			1,543						**0**			**0**
Learning Resource												
Instructional Media Center				1	2,000	2,000	1	1,196	1,196			
Office				1	125	125	1	99	99			
Storage				1	500	500	1	94	94			
			0						**1,389**			**0**

Minot Public Schools

Addition and Renovation Longfellow Elementary School

Schematic Design - Preliminary

Healy, Bender & Associates, Inc.

Project No. 10-2611-147

Draft - December 12, 2011

Square Footage / Area Summary

	Existing to Remain			MPS Model			Schematic Design					
Space Summary	#	SF	Total SF	#	SF	Total SF	#	Remodel	Total SF	#	New	Total SF
Physical Education												
Physical Education				1	6,000	6,000				1	5,760	5,760
Office				1	125	125				1	124	124
Gymnasium Storage				1	600	600				1	379	379
			0						**0**			**6,263**
Multi-Purpose/Food Service												
Cafeteria	1	2,256	2,256	1	1,700	1,700						
Storage	2	26	52	1								
			2,308						**0**			**0**
Administration												
Main Office				1	325	325	1	303	303			
Principal Office				1	175	175	1	152	152			
Assistant Principal Office				1	150	150	1	152	152			
Counselor Office				1	150	150	1	139	139			
Conference Room				1	208	208	1	194	194			
Storage				1	300	300	1	84	84			
Health Office				1	125	125	1	201	201			
Toilet Room				1	45	45	1	53	53			
			0						**1,278**			**0**
Staff Support Areas												
Workroom	1	113	113	1	500	500						
Office	1	66	66				1	82	82			
Staff Room							1	460	460			
Toilet	3	26	78									
Technology Office							1	66	66			
			257						**608**			**0**
Student Support Areas												
Girls' Toilet - 1st Floor	1	178	178									
Boys' Toilet - 1st Floor	1	168	168									
Girls' Toilet - 2nd Floor	1	178	178									
Boys' Toilet - 2nd Floor	1	168	168									
Girls' Toilet - 1st Floor Addition										2	219	438
Boys' Toilet - 1st Floor Addition										2	219	438
Girls' Toilet - 2nd Floor Addition										1	222	222
Boys' Toilet - 2nd Floor Addition										1	222	222
			692						**0**			**1,320**
Building Services												
Storage	1	691										
Elevator Machine Room										1	110	110
MDF / IDF	1	113	113	1								
Janitor's Closet	3	26	78									
Building Services	1	156	156				3	548	1,644			
			347						**1,644**			**110**
Total Net Area (NSF)			**9,911**						**5,675**			**29,389**
Matrix			**12,225**						**914**			**12,430**
Total Gross Area (GSF)			**22,136**						**6,589**			**41,819**

TAB – 3 Code Compliance

LONGFELLOW ELEMENTARY SCHOOL

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CODE COMPLIANCE

The proposed additions and renovations will be reviewed for compliance with the current building codes adopted by the State of North Dakota which are:

1. 2009 International Building Code*
2. 2009 International Mechanical Code*
3. 2009 International Fuel Gas Code*
4. 2009 Uniform Plumbing Code*
   *Including North Dakota State Building Code Amendments
5. Wiring Standards of North Dakota
6. 2009 International Energy Conservation Code
7. Americans with Disabilities Act Accessibility Guidelines (ADAAG)

The existing building does not have an automatic sprinkler system and exceeds the maximum code allowable floor area of 12,000 square feet. The new addition and existing building shall be divided into four separate buildings/fire areas separated by two-hour fire walls. The new additions shall be fully equipped with an automatic fire sprinkler system and fire alarm system.

The new additions and existing building shall be separated as follows: The gymnasium addition at the southwest corner of the existing building will become one fire area (FA-1). The two story classroom addition at the southeast corner of the existing building will become one fire area (FA-2). The kindergarten/pre-kindergarten classroom addition at the northeast corner of the original building will become one fire area (FA-3). The existing building will become one fire area (FA-4).

The new additions are classified as Educational Group E occupancies. The construction type shall be IIB. The allowable building height for an educational occupancy of type IIB construction is two stories and 55'-0". With an automatic fire sprinkler system the additions can be enlarged to a maximum of three stories and 75'-0". The allowable building area for an educational occupancy of type IIB construction is 14,500 square feet per floor. With an automatic fire sprinkler system each addition can be enlarged to a maximum of 58,000 square feet per floor.

The floor area of each building/fire area is as follows:

- FA-1 – First Floor - 7,964 square feet
  FA-2 – First Floor - 12,183 square feet
  Second Floor - 12,183 square feet
  FA-3 - First Floor - 9,389 square feet
  FA-4 – Lower Level - 3,095 square feet
  First Floor - 17,470 square feet

Second Floor - 8,260 square feet

The allowable occupant loads of each fire area are as follows:

- FA-1 - First Floor - 1,020 persons
  FA-2 - First Floor - 680 persons
  Second Floor - 560 persons
  FA-3 - First Floor - 1,700 persons
  FA-4 – Lower Level - 353 persons
  First Floor - 1,430 persons
  Second Floor - 352 persons

The calculated occupant loads of each fire area are as follows:

- FA-1 – First Floor - 827 persons
  FA-2 – First Floor - 379 persons
  Second Floor - 379 persons
  FA-3 - First Floor - 261 persons
  FA-4 – Lower Level - 11 persons
  First Floor - 567 persons
  Second Floor - 228 persons

To separate the new addition and existing building into four separate buildings/fire areas, 2 hour fire walls shall be constructed between the additions and the existing building. The separation between each new addition and the existing building shall be as follows:

- FA-1 – The new corridor shall be separated from the existing building with 2 hour fire rated wall construction and 1½ hour fire rated doors, frame and hardware. The doors shall have magnetic hold-open devices connected to the buildings fire alarm system.
- FA-2 – The existing exterior door and frame shall be removed and replaced with a 1½ hour fire rated door, frame and hardware. The doors shall have magnetic hold-open devices connected to the buildings fire alarm system.
- FA-2 - The northern-most window on the east elevation of the existing music room shall be removed and infiled with masonry construction with a minimum 1 hour fire rated construction or be replaced with windows meeting ¾ hour fire rated construction to meet fire separation distance requirements between fire areas.
- FA-2 – The three southern-most windows of the media center in the existing building shall be infilled with masonry construction with a minimum 1 hour fire rated construction or be replaced with windows meeting ¾ hour fire rated construction to meet fire separation distance requirements between fire areas.

- FA-2 – The center window in Title 1 room in the existing building shall be infilled with masonry construction with a minimum 1 hour fire rated construction or be infilled with windows meeting ¾ hour fire rated construction to meet fire separation distance requirements between fire areas.
- FA-2 – The existing windows the southern-most fifth grade classroom in the existing building shall be infilled with masonry construction with a minimum 1 hour fire rated construction or be infilled with windows meeting ¾ hour fire rated construction to meet fire separation distance requirements between fire areas.
- FA-3 – The windows in the existing storage room adjacent to the existing kindergarten classroom shall be infilled with masonry construction meeting 2 hour fire rating requirements.
- FA-3 – The northern-most window in the existing staff room shall be infilled with masonry construction meeting 2 hour fire rating requirements. The adjacent two windows shall
- FA-3 – A horizontal accordion fire door (Won Door) shall be provided in the corridor between FA-3 and FA-4 meeting 1½ hour fire rating requirements.

The fire resistance rating requirements for building elements is as follows:

- Primary Structural Frame - 0 hours
- Bearing Walls - Exterior - 0 hours

  Interior - 0 hours
- Non Bearing Walls and Partitions Based on Fire Separation Distance:

	X < 5'-0"	= 1 hour
5'-0" ≤	X < 10'-0"	= 1 hour
10'-0" ≤	X < 30'-0"	= 0 hour
	X ≥ 30'-0"	= 0 hour

Glazing in fire rated doors, adjacent sidelights and transoms shall be fire rated glass meeting the rating requirements of the opening.

The minimum thermal resistance (R-value) of the roofing system at the new addition shall meet an R-25 with continuous insulation. The minimum total thermal resistance of the new exterior walls shall meet R15.2.

The slab on grade shall have a minimum thermal resistance of R-15. This can be achieved with a layer of rigid insulation on the interior side of the perimeter foundation wall. The insulation shall extend downward from the top of the slab for a minimum distance of 24 inches or to the top of the footing.

The fenestration in the addition and any new fenestration in the existing building shall meet energy code requirements as follows:

- Curtain wall / store front – U-factor = .040
- Entrance doors – U-factor = 0.80
- All other - U-factor = 0.45

The Solar Heat Gain Coefficient (SHGC) for all frame types shall meet energy code requirements as follows:

- SHGC: Projection factor(PF) < 0.25 = 0.45
- SHGC: 0.25 ≤ PF ≥ 0.5 = No Requirement
- SHGC: PF ≥ 0.5 = No Requirement

Skylights shall have a minimum U-factor of 0.60.

TAB – 4 LEED

LONGFELLOW ELEMENTARY SCHOOL

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HEALY, BENDER & ASSOCIATES, INC.
4040 Helene Avenue, Naperville, Illinois 60564 Telephone 630.904.4300 Facsimile 630.904.1515 www.healybender.com

LEED for Schools 2007
Registered Project Checklist

Project Name: Addition and Renovation - Longfellow Elementary School

Project Address: 600 16th St. NW, Minot, ND 58701

Yes	?	No		
30	31	18	**Project Totals** (Pre-Certification Estimates)	79 Points
CERTIFIED			**Certified**: 29-36 points **Silver**: 37-43 points **Gold**: 44-57 points **Platinum**: 58-79 points	

Yes	?	No			
8	4	4	Sustainable Sites		16 Points
Yes			Prereq 1	**Construction Activity Pollution Prevention**	Required
Yes			Prereq 2	**Environmental Site Assessment**	Required
1			Credit 1	**Site Selection**	1
		1	Credit 2	**Development Density & Community Connectivity**	1
		1	Credit 3	**Brownfield Redevelopment**	1
	1		Credit 4.1	**Alternative Transportation**, Public Transportation	1
		1	Credit 4.2	**Alternative Transportation**, Bicycle Use	1
1			Credit 4.3	**Alternative Transportation**, Low-Emitting & Fuel Efficient Vehicles	1
1			Credit 4.4	**Alternative Transportation**, Parking Capacity	1
		1	Credit 5.1	**Site Development**, Protect or Restore Habitat	1
	1		Credit 5.2	**Site Development**, Maximize Open Space	1
1			Credit 6.1	**Stormwater Design**, Quantity Control	1
1			Credit 6.2	**Stormwater Design**, Quality Control	1
1			Credit 7.1	**Heat Island Effect**, Non-Roof	1
	1		Credit 7.2	**Heat Island Effect**, Roof	1
1			Credit 8	**Light Pollution Reduction**	1
	1		Credit 9	**Site Master Plan**	1
1			Credit 10	**Joint Use of Facilities**	1

LEED for Schools 2007
Registered Project Checklist

Yes	?	No			
2	4	1	**Water Efficiency**		**7 Points**
	1		Credit 1.1	**Water Efficient Landscaping**, Reduce by 50%	1
	1		Credit 1.2	**Water Efficient Landscaping**, No Potable Use or No Irrigation	1
		1	Credit 2	**Innovative Wastewater Technologies**	1
2	1		Credit 3	**Water Use Reduction**	1 to 3
			Credit 3.1	20% Reduction	1
		-->	Credit 3.2	30% Reduction	2
			Credit 3.3	40% Reduction	3
	1		Credit 4	**Process Water Use Reduction**, 20% Reduction	1

Yes	?	No			
4	6	7	**Energy & Atmosphere**		**17 Points**
Yes			Prereq 1	**Fundamental Commissioning of the Building Energy Systems**	Required
Yes			Prereq 2	**Minimum Energy Performance**	Required
Yes			Prereq 3	**Fundamental Refrigerant Management**	Required

***Note for EAc1:** All LEED for Schools projects registered after June 26, 2007 are required to achieve at least two (2) points.

4	2	4	Credit 1	**Optimize Energy Performance**	2 to 10
			Credit 1.2	14% New Buildings / 7% Existing Building Renovations	2
			Credit 1.3	17.5% New Buildings / 10.5% Existing Building Renovations	3
		-->	Credit 1.4	21% New Buildings / 14% Existing Building Renovations	4
			Credit 1.5	24.5% New Buildings / 17.5% Existing Building Renovations	5
			Credit 1.6	28% New Buildings / 21% Existing Building Renovations	6
			Credit 1.7	31.5% New Buildings / 24.5% Existing Building Renovations	7
			Credit 1.8	35% New Buildings / 28% Existing Building Renovations	8
			Credit 1.9	38.5% New Buildings / 31.5% Existing Building Renovations	9
			Credit 1.10	42% New Buildings / 35% Existing Building Renovations	10
		3	Credit 2	**On-Site Renewable Energy**	1 to 3
			Credit 2.1	2.5% Renewable Energy	1
			Credit 2.2	7.5% Renewable Energy	2
			Credit 2.3	12.5% Renewable Energy	3
	1		Credit 3	**Enhanced Commissioning**	1
	1		Credit 4	**Enhanced Refrigerant Management**	1
	1		Credit 5	**Measurement & Verification**	1
	1		Credit 6	**Green Power**	1

LEED for Schools 2007
Registered Project Checklist

Yes	?	No			
5	5	3	Materials & Resources		13 Points
Yes			Prereq 1	**Storage & Collection of Recyclables**	Required
1			Credit 1.1	**Building Reuse,** Maintain 75% of Existing Walls, Floors & Roof	1
	1		Credit 1.2	**Building Reuse,** Maintain 95% of Existing Walls, Floors & Roof	1
1			Credit 1.3	**Building Reuse,** Maintain 50% of Interior Non-Structural Elements	1
1			Credit 2.1	**Construction Waste Management**, Divert 50% from Disposal	1
	1		Credit 2.2	**Construction Waste Management**, Divert 75% from Disposal	1
	1		Credit 3.1	**Materials Reuse**, 5%	1
		1	Credit 3.2	**Materials Reuse**, 10%	1
1			Credit 4.1	**Recycled Content**, 10% (post-consumer + 1/2 pre-consumer)	1
	1		Credit 4.2	**Recycled Content**, 20% (post-consumer + 1/2 pre-consumer)	1
		1	Credit 5.1	**Regional Materials**, 10% Extracted, Processed & Manufactured	1
		1	Credit 5.2	**Regional Materials**, 20% Extracted, Processed & Manufactured	1
	1		Credit 6	**Rapidly Renewable Materials**	1
1			Credit 7	**Certified Wood**	1

LEED for Schools 2007
Registered Project Checklist

Yes	?	No			
7	10	3		**Indoor Environmental Quality**	**20 Points**
Yes			Prereq 1	**Minimum IAQ Performance**	Required
Yes			Prereq 2	**Environmental Tobacco Smoke (ETS) Control**	Required
Yes			Prereq 3	**Minimum Acoustical Performance**	Required
1			Credit 1	**Outdoor Air Delivery Monitoring**	1
	1		Credit 2	**Increased Ventilation**	1
	1		Credit 3.1	**Construction IAQ Management Plan,** During Construction	1
1			Credit 3.2	**Construction IAQ Management Plan**, Before Occupancy	1
2	2		Credit 4	**Low-Emiiting Materials**	1 to 4
1			Credit 5	**Indoor Chemical & Pollutant Source Control**	1
1			Credit 6.1	**Controllability of Systems**, Lighting	1
	1		Credit 6.2	**Controllability of Systems**, Thermal Comfort	1
	1		Credit 7.1	**Thermal Comfort,** Design	1
	1		Credit 7.2	**Thermal Comfort,** Verification	1
	1	2	Credit 8.1	**Daylight & Views,** Daylight 75% of Spaces	1 to 3
				75% of classrooms (Required for either points below)	1
				90% of classrooms	2
				75% of other spaces	3
1			Credit 8.2	**Daylight & Views,** Views for 90% of Spaces	1
	1		Credit 9	**Enhanced Acoustical Performance,** 40 dBA / RC level of 32	1
		1		**Enhanced Acoustical Performance,** 35 dBA / RC level of 27	1
	1		Credit 10	**Mold Prevention**	1

Yes	?	No			
4	2			**Innovation & Design Process**	**6 Points**
1			Credit 1.1	**Innovation in Design:** Provide Specific Title	1
1			Credit 1.2	**Innovation in Design:** Provide Specific Title	1
	1		Credit 1.3	**Innovation in Design:** Provide Specific Title	1
	1		Credit 1.4	**Innovation in Design:** Provide Specific Title	1
1			Credit 2	**LEED® Accredited Professional**	1
1			Credit 3	**School as a Teaching Tool**	1

TAB – 5 Project Schedule

LONGFELLOW ELEMENTARY SCHOOL

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Lewis and Clark ES / Longfellow ES
Minot Public Schools
Minot, ND
Proj. No.: 10-711-129 & 10-2611-147

12/12/2011 Rev1

Minot PUBLIC SCHOOLS

HEALY, BENDER & ASSOCIATES, INC.
ARCHITECTS PLANNERS
4040 HELENE AVENUE, NAPERVILLE, IL 60564
TEL 630.904.4300 FAX 630.904.1515
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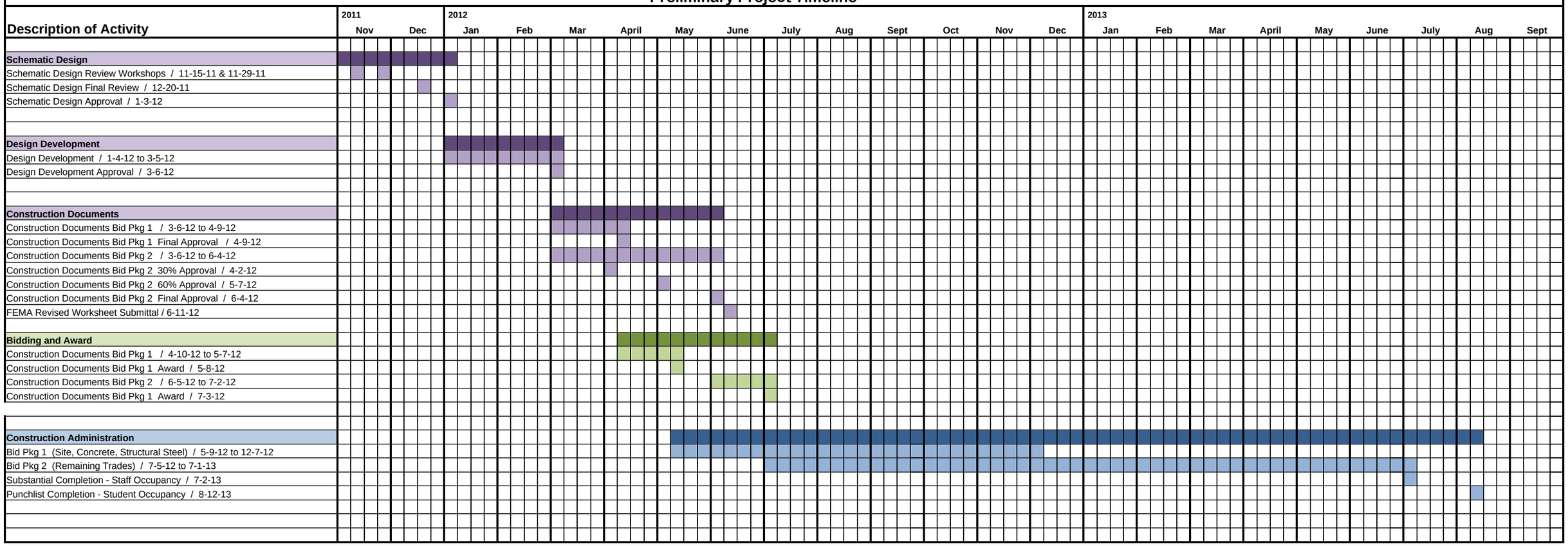
Preliminary Project Timeline



TAB – 6 Architectural Drawings

LONGFELLOW ELEMENTARY SCHOOL

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Longfellow ES – Site Plan

Total Parking = 90 Stalls (Includes: 4 ADA Stalls, 8 Visitor Stalls, 78 Staff Stalls

Minot PUBLIC SCHOOLS

Schematic Design Phase –

Longfellow Elementary School

Draft
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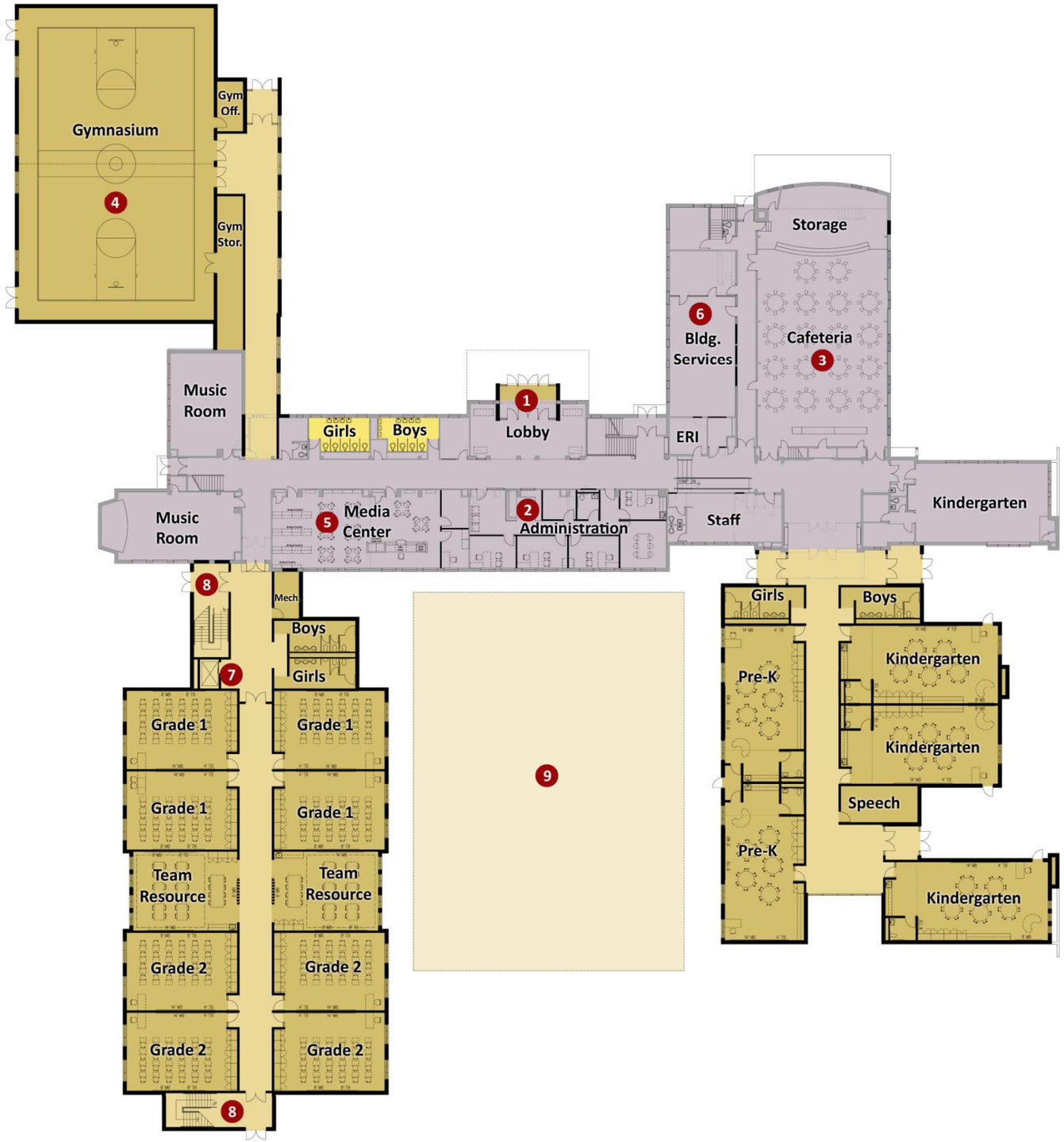

Key Features Legend

1. New Main Entrance
2. New Administrative Offices
3. Existing Gymnasium to be Converted into New Cafeteria
4. New Gymnasium
5. Existing Classrooms to be Converted into New Media Center
6. Existing spaces to be converted to Building Services
7. New Elevator
8. New Stair
9. New Playground

Legend

- Existing Building Renovation
- Existing Building Renovation - Design Alternate
- New Addition

Longfellow ES – Main Level Floor Plan

Minot PUBLIC SCHOOLS

Schematic Design Phase –

Longfellow Elementary School

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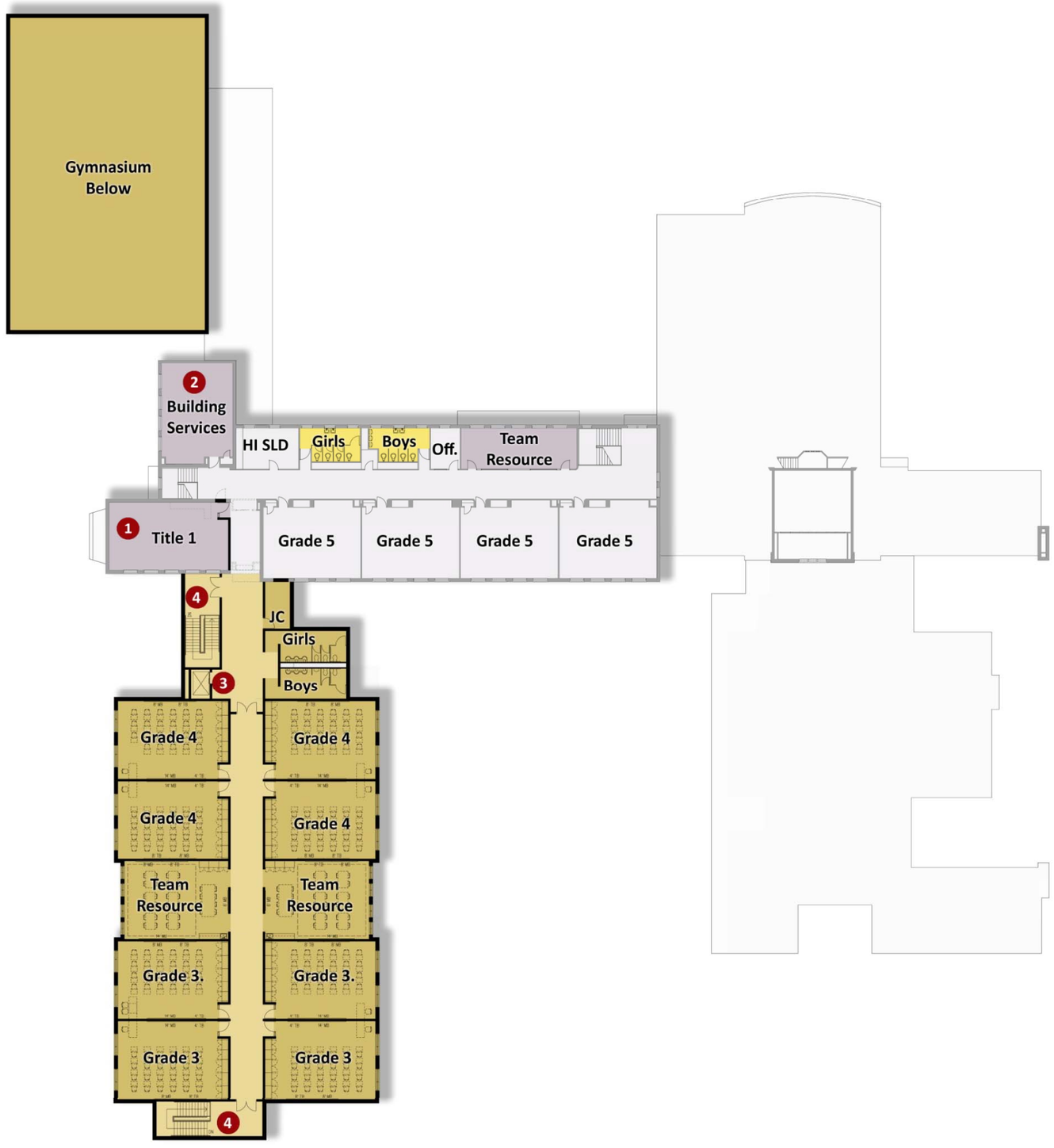

Key Features Legend

1. Existing Classroom to be Converted into New Title 1
2. Existing Classroom to be Converted to New Building Services
3. New Elevator
4. New Stair

Legend

- Existing Building Renovation
- Existing Building Renovation - Design Alternate
- New Addition
- Existing Building to Remain

ADDI
RENC

Add
Lon
SD

Longfellow ES – Upper Level Floor Plan

Minot PUBLIC SCHOOLS

Schematic Design Phase –

Longfellow Elementary School

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TAB – 7 Building Systems

LONGFELLOW ELEMENTARY SCHOOL

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Longfellow Elementary School Site and Proposed Improvements Evaluation

General:

The proposed addition's utility services can be placed as independent services for potable water, fire, and sanitary as opposed to plumbing them through the older existing facilities. Based on the increase in impervious area scheduled for these additions and supporting parking area, the new construction will need to comply with the City's Storm Water Management Plan ordinance and will require a storm water management plan with facilities designed to detain and attenuate the required 10 year return period and 100 year return period storm events. All new site construction will need to be in conformance with the City of Minot Standards and Specifications.

Access / Parking:

In order to provide reasonable traffic control for student drop off and pick up, the proposed parking drive aisle may be considered for one-way travel with vehicles entering the access point located on 16th Street NW and exiting on 7th Avenue NW. The driveway on 7th Avenue NW can be two directional. The addition of dedicated parking for District delivery & supply vehicles with locations nearest service entry locations should be considered. The area in front of the existing cafeteria / building services may be suitable for this purpose.

Site Drainage and Storm Water Management:

The existing drainage pattern across the 7.0± acre property is sloped from the northwest to the southeast. A low spot exists along the south face of the cafeteria / building services area where the new entrance courtyard is planned. This courtyard area can be equipped with shallow storm sewer and inlet structures to collect surface run-off and provide connection points for roof leaders. The storm sewer piping should consist of small diameter HDPE or equal. Grading of the playground area on the east side of the building may also require shallow storm sewer and inlet structures that would daylight to the south and east. All storm water run-off where possible, based on challenges with the existing conditions, will need to be conveyed to new Storm Water Management (SWM) facilities via piping, surface flow or swale. The required Storm Water Management facilities will consist of a detention area that is capable of detaining and discharging run-off at rate equal to or less than the pre-development rate. In this instance the City may allow a rate of 0.25 cfs for the 10 year event and 1.0 cfs per acre for the 100 year event based on the existing conditions of the property. The new shallow storm water management detention facility will be located on the south end of the property and discharge by an outfall structure to the existing storm sewer located in the 5th Avenue NW Right-of-Way.

Utilities:

The property has water and sanitary sewer facilities running through the eastern two third of the property at the interface of the three parcels (Parcel ID MI142760003040 and MI142760002760 /MI142760002500) that make up the school site. The facilities are aligned north-south and were located within the 50' wide 15th Street Right-of-Way which has since been vacated. The facilities consist of an 8" diameter sanitary sewer VCP main and 8" diameter water CIP main. The sanitary facilities consist of piping and manhole (MH #17) located approximately at the midpoint of the parcel. Inverts for the manholes are 1552.90 North and 1548.9 South, respectively. Pipe slopes have sewer flows moving either north or south of the manhole depending on the point of connection. The water facilities consist of an 8" C.I.P (cast iron pipe) water main offset 11 feet to the west of the sanitary sewer. These facilities will need to be removed and replaced with PVC piping in the case of the water main and selectively removed and replaced in the case of the sanitary sewer piping, services, and manhole. The water main could be rerouted to the eastern edge of the property. According to the Normal Park ES Plans (previous name for Longfellow ES) Plumbing Plan, the existing 6" diameter sewer service line is connected to the 8" main that flows south to 5th Avenue SW requiring this service to be connected into service lines for the proposed additions.

Landscaping & Hardscaping:

Green areas that are disturbed should be sodded or seeded using turf grass consistent with specs followed by the School District. Plantings and ground cover will be directed by the School District. Sidewalks are to 4" thick concrete, steel meshed per City Specs. Paved courtyards and entry areas may be asphalt, decorative brick, or concrete as directed by the District.

BUILDING SYSTEMS – STRUCTURAL

ADDITION AND RENOVATION TO LONGFELLOW ELEMENTARY SCHOOL

General

The basic structural system being considered is a steel frame skeleton with steel floor and roof joists, and steel trusses at gabled roof areas. The masonry shell and interior walls are non-load bearing, and the columns would be embedded in the masonry walls. The advantage to this is the time savings to get the building under roof, as well as the wall thickness savings on walls over 18' in height such as the Gymnasium and two story areas.

Foundation and Floor Slab

The exterior foundation walls and strip footings to be poured in place concrete extended down below frost depth at a minimum, with reinforced concrete column piers and footings to be integral to the exterior foundation walls. Interior reinforced concrete column piers and footings are planned for the interior columns. The slab on grade is proposed to be 5" thickness with WWF on vapor barrier on 4" gravel base, unless the final soils report requires revision. The floor slab below interior masonry walls would be reinforced and thickened to 12" x 24" width centered on the wall.

Walls

The exterior walls to be 1'-3" masonry cavity walls with the exterior face brick type and coursing to be complimentary to the existing building. The components of the wall to be 4" face brick, 2½"rigid polyisocyanurate insulation LTTR = 15.0, 1¼" remaining air space, and 8" concrete masonry unit interior back up. The interior walls to be 8" concrete masonry units.
New window units to be 3¼" depth thermally broken aluminum windows with 1" insulated tinted Low-E glass meeting energy code requirements. Operable units to be awning type with screens. The window units in the existing facility are to be replaced with new matching the type for the new addition. The two story addition area windows will require the units be supported off the second floor structure as well due to their height. Insulated spandrel glass units shall be set in lieu of insulated glass in areas in need of an opaque condition to hide structure, etc.
Exterior doors and frames to be aluminum with tempered safety glass at building entries, and hollow metal doors and frames at room exits.

Second Floor

The second floor structural system in general consists of open web K-series steel joists bearing on the structural steel frame, spaced at 2'-0" on center, spanning from the exterior in to a single row of structural frame centered along the corridor wall. Floor deck is 1" Type C metal deck welded to the joists, with 3 ½" poured concrete slab with WWF.

Roof

The roof system in general consists of open web K-series steel joists bearing on the structural steel frame, spaced at 5'-0" on center, spanning from the exterior in to a single row of structural frame centered along the corridor wall. It is intended to slope the structure for roof drainage with the high point along the center. Roof deck is 1½" Type B metal deck welded to the joists with the selected roofing material type to be installed over 4½" rigid polyisocyanurate insulation LTTR = 27.0, with tapered insulation crickets as required.

The Gymnasium gabled roof areas would be single span structural steel scissor trusses, spaced at 12'-0" on center with structural steel WF purlins spanning between trusses spaced at 5'-0" on center. Roof deck is 2½"acoustical metal deck (NRC 0.95) welded to the structure. The remaining gabled roof areas would be single span structural steel trusses, spaced at 5'-0" on center. Roof deck is 1½" Type B metal deck welded to the trusses. At all gabled roof areas laminated fiberglass architectural shingles would be installed over underlayment on vented nail base insulation of thickness to provide LTTR = 27.0 installed over vapor barrier over the roof deck.

Longfellow Elementary School
Building Systems – Mechanical

UTILITY SERVICES: A new 3" domestic water line will be extended to the building to serve the existing building and new addition. A new 6" water line will be brought in to support the fire sprinkler system. A new 6" PVC sanitary sewer line will be required for the addition. Waste piping in the existing building will be connected to the new UG waste line to the extent practical.

PLUMBING: New waste and vent piping will be PVC. Domestic water piping will be type M copper with 1" insulation. Toilet rooms in the existing building will be reconstructed with new piping and fixtures to meet current ADA and plumbing codes. Existing piping is a mix of leaded joint cast iron, galvanized steel and copper. All existing piping and plumbing fixtures will be replaced.

ROOF DRAINAGE: Internal rain leaders will convey water from flat roofs to discharge at the perimeter of the building. A secondary roof drainage system will be required in the form of overflow scuppers or redundant roof drain/rain leader system. Existing and new pitched roofs will be drained by exterior gutters and downspouts

FIRE PROTECTION: A fire sprinkler system designed in accordance with NFPA 13 will be required in the existing and new building addition. The attic spaces will be covered with dry fire sprinkler system. The need for a fire pump is not anticipated.

HEATING AND AIR CONDITIONING: None of the existing building HVAC system is salvageable, the steam boiler and related equipment will be cut up and removed as well as the piping in the tunnels. No mechanical equipment will be reinstalled in tunnels or below grade mechanical rooms. Two new high efficiency boilers will be installed in the spaces dedicated to building services (former cafeteria). Hot water heating and heat pump piping will be black steel or copper. HVAC will be supplied by hydronic heat pump system. Extended range heat pump units will be specified so the system will be compatible with geo-thermal integration in the future if natural gas prices should increase dramatically. Classroom heat pump units will be located above corridor ceilings for better service and noise control. Gymnasium Heat pump will be located in adjacent 2nd level mechanical room. The hydronic heat pump system will be extended throughout the existing building A closed circuit industrial cooler will be located on the ground at the NW corner of the building in a screened enclosure. The industrial cooler will be coupled to the inside heat pump loop via flat plate heat exchanger per IECC. Glycol/water solution will be used for cooler freeze protection.

VENTILATION: Built up air to air heat exchanger systems featuring rotary heat recovery wheels and DX dehumidification will be utilized to supply fresh air to the building. One system will be in the ground level building services space and the other in the second floor mechanical room at the South end of the building. Supplemental heat will be provided via hot water reheat coils in the supply ductwork. The ventilation system will be fully ducted. CO sensors will vary

the amount of fresh air delivered to larger spaces with variable occupancies (gymnasium and cafeteria). Filter grilles shall be provide at heat pump return ducts so above ceiling filter changes can be eliminated.

AUTOMATIC TEMPERATURE CONTROLS: Controls in the new addition and existing remodeled building will be DDC. The controls will be connected with the one of the school building automation systems (BAS).

Longfellow Elementary School
Building Systems – Electrical

LIGHTING: The existing building's luminaires utilize obsolete 40WT12 fluorescent lamps and incandescent type Exit signs. Emergency egress lighting does not comply with current code requirements. New lighting will be installed throughout the existing building. Light fixture types/styles for the existing building and the new addition will be similar to those used over the past several years in other MPSD elementary and middles schools that have undergone electrical upgrades.

POWER: The existing building's classrooms are lacking the quantity of convenience receptacles required in modern classrooms. Additional receptacles will be installed throughout the existing building and the receptacle layouts in the new addition will ensure the increasing demands of receptacles/power in today's classrooms are met.

SERVICE/DISTRIBUTION: The existing 120/240Volt single phase distribution system was damaged by the flood. The service will not be adequate for the loads associated with the addition and HVAC upgrade. A new 277/480Volt electrical service will be installed on the main floor of the existing building. Existing distribution panels and feeders will be replaced with three phase equipment.

COMMUNICATIONS: The existing Category 5e network cabling was compromised by the flood. A new Category 6 voice/data cabling system will be installed in the existing building as well as the new addition. Dedicated IT rooms will be strategically located. The existing CATV system will be extended into the new addition also.

FIRE ALARM: The existing unsupervised fire alarm system is not in compliance with current codes, nor can it be adequately upgraded; therefore, a new addressable fire alarm system will be installed and all areas of the existing building will be brought into compliance.

INTERCOM/CLOCK: The existing intercom, clock, and program systems do not have adequate capacity to be extended into the addition. The system will be replaced with a dmx type system similar to other buildings in the district that have had recent intercom upgrades.

SECURITY: A surveillance system that monitors all entrances to the building will be installed.

Technology SD Program Report

Longfellow Elementary School

November 15, 2011

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Introduction

The primary purpose of this Technology Program document is to establish the requirements and parameters for the technology systems to replace systems that were affected by the flood and support next-generation teaching and learning for the Longfellow Elementary School campus.

Program Scope

The scope of the program includes:

- Identifying base building technology needs for network cabling infrastructure.
- Identifying base building technology needs for premise electronic security.
- Identifying needs for technology to aid teaching and learning.
- Providing options and recommendations for systems to meet identified needs.
- Estimated costs for recommended technology systems.

Cabling Infrastructure

"Cabling Infrastructure" in this section is defined as a combination of all copper and optical fiber telecommunications cables, equipment/patch cables and connecting hardware. The cabling infrastructure recommended for installation will be a combination of UTP copper cable and fiber optic cable. The existing cabling that was terminated in the main data room for the school will need replaced. This room was housed in the basement and all cabling on the first floor was submerged in water requiring replacement of the copper cabling. Additionally, the cabling on the second floor that came from the main data room will also need replaced. The cabling all terminates to a rack located in a classroom that will be repurposed with the remodel requiring replacement.

Horizontal (Station) Cabling

Horizontal cabling is the cabling between the work area telecommunications outlet and the telecommunications room (TR). Horizontal cabling is often referred to as "station cabling".

The typical telecommunication outlet will have two data grade cables. Both of these cables will be terminated on modular patch panels in the telecommunication rooms (TRs). This design will allow for any of the horizontal cables in the typical telecommunications outlet to be used for voice and/or data applications giving maximum flexibility to the horizontal cabling system.

Teacher's stations will receive two data grade cables.

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Other outlets will consist of a single horizontal cable for wall-mount phones.

Additional data outlets will be installed in accessible ceiling spaces throughout the building for wireless network access points.

In all, it is estimated that this Campus will require approximately (200) standard dual jack telecommunication outlets, (43) wireless access point outlets and (20) outlets for IP camera, wall phones and other peripheral devices.

Intra-Building Backbone Cabling

Backbone Cabling is the cable and hardware interconnecting telecommunication rooms (TRs), building demarcation rooms, equipment rooms and server rooms. The backbone cabling will consist of the following cable types:

- Multi-Pair Voice Cabling: Voice backbone cabling would consist of 25-pair Category 3 cables.
- Fiber Optic Data Cabling: Data backbone cabling would consist of 50 Micron Multi-mode fiber optic cabling. Each TR/IDF will receive a 12-strand Multi-mode cable from the MER/MDF.

Premise Security

"Premise security" in this section is defined as a combination of door access control and CCTV video surveillance systems.

Card Access

Card access system in this section is defined as the entry control system and equipment that allows authorized personnel into designated secure areas. Access control also refers to the process of managing databases or records, and determining levels of authorized entry, such as who will be granted access and when they may enter the designated space.

Doors requiring card readers will be fitted with electronic strikes or electronic panic hardware, request for exit motion sensors and recessed door status switches. It is anticipated that there will be approximately (7) doors requiring access control.

CCTV Surveillance System

The district is currently standardized on analog cameras. It is recommended that the district move to a new IP based system. These IP Cameras offer a high level of flexibility and manageability.

The benefit of IP networks and video surveillance systems is in its standard method of addressing and connecting to devices. These devices can include cameras, computers, phones, printers, building managements systems just to name a few. In a CCTV application, this means specific cameras can be managed, viewed and controlled from anywhere on the Local Area Network (LAN) by anyone with proper authorization.

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The interior color cameras will be in a fixed position and come with a vari-focal lens allowing the camera to be used in a wide angle or telescopic application without purchasing new hardware.

The exterior cameras will be similar to the interior described above but will be rated for outdoor use. Exterior cameras may also have pan/tilt/zoom capabilities allowing the user to control where the camera is positioned and zoom in and out on the item or person being monitored.

The cabling for IP Cameras is the same cabling used in the voice and data distribution system. The cameras connect to the data switches in the distributed telecommunications rooms and are then sent across the Local Area Network (LAN) to a central server device where the video signals are stored as digital files.

There will be approximately (15) interior fixed cameras and (5) exterior cameras.

LAN/Voice/Wireless

The technology systems within the scope of this category include the following:

- **Local area networks (LAN)**
  Networks within individual buildings are local area networks, or LANs. LANs provide access to shared data and technology systems within the district's buildings. The LAN communicates over the wired technology infrastructure. It is anticipated that there will be approximately (576) LAN Ethernet ports required.

- **Voice (telephone) systems**
  MPS currently utilizes STR Telco's Centrex telephone service. This report does not include any costs associated with new telephone equipment. The cabling for the telephones is included.

- **Wireless LAN**
  Another component of LANs is wireless LANs. Wireless LANs are becoming more and more popular as the connection of choice for laptops and other mobile devices. A wireless LAN is a perfect complement to a well-established wired LAN. It is anticipated that there will be thirty (30) total wireless access point locations.

- **UPS Systems**
  Uninterruptible power supplies should be part of any LAN purchase. UPS systems are not only important to protect equipment from power abnormalities, but they become even more important when phones rely on the LAN for power.

Audio and Video Systems

Audio and Video systems in the school will need to be replaced due to damage sustained from the flood. This will include a variety of different systems gathered into this category. The

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systems may also need expanding from their original designs to accommodate the additional classrooms.

- **Campus wide Public Address / Audio Paging System:**

  Audio paging or announcements will originate from the primary location which will be a microphone located in the reception office area. The system will also allow for pages or announcements from a Push-to-Talk microphone located on the reception desk. Both common area and classrooms will receive P.A. audio and Bells over ceiling loud speakers. The common area audio zones will be analog over distributed 70v ceiling speakers. Classrooms will be over the data network using IP audio decoders and local room playback amplifiers. The classrooms will allow for talk back audio and will combine the PA speakers with sound reinforcement speakers. It will be the Common area P.A. Zones that will provide the emergency paging.

- **Bell System:**

  The bell system will be more accurately thought of as an "Audio Event Scheduler". Bell tones, music, sounds, prerecorded voice announcements and other audio is stored on the bell system to allow playback on any devices throughout the day. These audio files can be changed or selected by the user and scheduled as to time of day and audio zone (locations) for playback. Audio event sounds will be sent out by the bell system as audio files over the data network. Bell system will have the ability to schedule 12 months of bells with various schedules in each building.

- **Synchronized Master Clock System:**

  A master clock that supplies synchronized time to all secondary clocks. The master clock will receive its time from a district synchronized NTP server. Common area digital clock displays shall be located in key locations throughout the facility Hallways, Library, Cafeteria, Gymnasium and Administration offices. The secondary clocks shall indicate both hours and minutes. The master clock shall synchronize all secondary remote display clocks.

- **Background Music:**

  Background music sources will be provided to allow playback of audio over the school-wide speaker system. The background program sources shall be located in the same room as the other bell and PA equipment.

- **Bulletin Board and Emergency Alert system**

  A video bulletin board will broadcast over a local origination IP streaming channel. This IP streaming channel can be viewed by any classroom projector or other video display such as LCD TVs in common areas. Any campus computer connected to the

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data network will also be able to view this video. The Bulletin Board is typically used for daily announcements, events, sports schedules, lunch menus and other information needing distributed to students, teachers and staff. A function of this channel will be an automated emergency alert system. An administrator can activate an automated emergency alert that will be broadcast to any or all video displays. Regardless of the on or off condition of the display the alert will force on the display and switch to the video alert. The Administrator may choose an audio alert to accompany the video alert.

- **Common Area LCD flat panel TV Displays for Bulletin Board**

  In key common area locations will be large LCD Flat Panel TVs. These LCD TVs will be connected to the data network via an IP Video Decoder (STB) in much the same way as the classroom video projector. The LCD TVs will be commonly referred to as a bulletin board or digital signage and will serve to display streaming video broadcast announcements, video bulletin board messaging, CATV favorite channel lineup and emergency alert messaging. LCD TVs will be controlled centrally from a control interface. Control functions will include power on / off, input selection, and channel selection.

- **Classroom Video Display System (Video Projectors) & Connectivity**

  Typical Classrooms will be equipped with a ceiling or wall mounted video projector and all associated cabling. Classroom systems also include a Smart board for interactive capabilities consistent with the design standard for the school and district. Typical Classrooms will include a single local input location to connect a teacher workstation. The location will include a VGA Computer Video input along with a 3.5mm Audio input. The location will also include a HDMI connection. The input connectivity device will fit into a standard Decora wall plate opening. Input signals are switchable from either location to the video projector and room audio system. Classroom electronic devices shall be housed in a ceiling equipment enclosure. Classroom connection plates will be cabled with standard UTP cabling.

- **Classroom Local Audio & Video inputs with A/V switching**

  Classroom local audio playback will be from the two coaxial type ceiling mounted loudspeakers fastened on a 2x2 lay in metal grill. These speakers shall be placed in the room to provide the best coverage of the space and seating area. Classroom P.A. Audio and Bells shall be delivered to the local room amplifier and in turn the ceiling mounted speakers by the Data Network over IP as MP3 audio stream. Located in each 2x2 ceiling enclosure shall be an IP Streaming Audio decoder device, this device connects to the data network and decodes audio single meant for the specific classroom zone.

- **IP based Video Delivery System**

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IP Video Streaming Content will be delivered to the classroom video projectors and other common area video display devices over the Data Network. Video sources at both the district and the school will be available as streamed channels. Sources may include DVD players, computers or satellite video. City Cable TV Service (CATV) will be cherry picked (Channels of interest) and encoded over the IP data network for viewing. Satellite (DirectTV and others) will be broadcast on-demand basis and available in the classroom as an IP video stream with remote control of the satellite channel.

- **IP Video Broadcast Cart with Audio & Video Mixing System**

At the School Campus a portable video broadcast cart will be provided. This portable cart will have a full mini video production system, thereby allowing the operator to record live video and audio, play stored program video (DVD) and other, mix multiple audio and video inputs, add effects, and mix foreground video with different background video (blue / green screen set effects) for broadcast. This will replace a studio location in the building and can be used throughout the building. This cart will serve as local origination IP Video Streaming source for such things as daily video announcements, live sporting & theatrical event broadcast, remote teaching, homebound student, and Administration Video communications. Using this video broadcast power over the IP data network will open many new communication possibilities within the campus, across the network and over the Internet. Wireless and wired microphones with audio mixer will be provided for presenters' audio pickup and broadcast. The broadcast will be capable of remotely beginning and ending a preprogrammed broadcast zone (what video displays will receive the broadcast.

- **Local Sound System**

The school will include audio and presentation systems for cafeteria, gymnasium and media center areas. Each of these systems will need more audio enhancement because of the larger spaces. Each space will have an overhead audio system adequate to cover the space that it is intended for. Each area will have local inputs for audio playback on the overhead speakers. The local systems will also be tied into the bell and PA systems. These spaces will also have both wireless and wired microphone capabilities. Also included in these spaces are video display systems to be used for educational purposes. Each space will have a projector and or LCD displays to accommodate the size of the space to current standards.

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Probable Costs – Cabling

The following estimates include cabling infrastructure equipment and installation, copper patch cables, system testing, and documentation. Estimates are based on a total of two (2) Telecommunication Rooms and approximately (520) Category 6 horizontal cables.

Base Estimated Costs

Systems	**Cost**
Copper Horizontal Cabling (Category 6)	$125,000
Cable Support & Tele Room Build-Out	$5,200
Copper & Fiber Intra-Building Backbone Cabling	$13,800
Total	**$144,000**

Probable Costs – Security

The following estimates include security devices equipment and installation, wiring, system testing, and documentation. Estimates are based on the number of devices listed above.

Systems	**Cost**
Card Access	$17,500
CCTV Surveillance	$36,000
Total	**$53,500**

Probable Costs – LAN/Wireless

The following estimates include LAN/Wireless equipment and installation, system testing, and documentation. Estimates are based on the number of devices listed above.

Systems	**Cost**
LAN	$85,000
Wireless	$56,000
Total	**$141,000**

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Probable Costs – Audio and Video Systems

The following estimates include audio and video equipment and installation, system testing, and documentation. Estimates were based on a 34 classroom spaces, gymnasium, media center and cafeteria.

Systems	**Cost**
School-Wide Audio and Video Systems	$346,000
Total	**$346,000**

Probable Costs – Summary

Systems	**Cost**
Cable Infrastructure	$144,000
Security	$53,500
LAN/Wireless	$141,000
Audio and Video	$346,000
Engineering (Design Development – Contract Administration and Commissioning)	$59,000
Total	**$743,500**

Value Engineering

If the base package estimates exceeds the available budget, there are some value-engineering steps we can take. The best way to address these would be to set a targeted budget and then allow us to propose alternatives for reaching the targeted budget, where we can prioritize the various system functions and quality benchmarks to ensure that the vital system functions and services are maintained.

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TAB – 8 Room Finish Schedule

LONGFELLOW ELEMENTARY SCHOOL

Minot, Ward County, North Dakota

HEALY, BENDER & ASSOCIATES, INC.
4040 Helene Avenue, Naperville, Illinois 60564 Telephone 630.904.4300 Facsimile 630.904.1515 www.healybender.com

ROOM FINISH SCHEDULE - Longfellow Elementary School

NO.	ROOM NAME	FLOOR							BASE						WALL						WAINSCOT						CEILING						CEIL HGT			REMARKS
		EXISTING	VCT	CARPET	CERAMIC TILE	CONCRETE	WOOD		EXISTING		RUBBER	CERAMIC TILE	CMU		EXISTING	GYPSUM BOARD	CMU	CERAMIC TILE	EPOXY PAINT	PAINT	EXISTING	GYPSUM BOARD	CERAMIC TILE	EPOXY PAINT	5'-4" HGT.	10'-0" HGT.	EXISTING	2X2 SUSP. AC.T. (NRC 0.55)	2X2 SUSP. AC.T. (NRC 0.90)	SUSP. GYP. BD.	EXPOSED CONST	PAINT	EXISTING / MATCH EXISTING	VARIES	10'-0"	Typical Note: Paint HM Doors, HM Frames, & Metal Railings; Stain and Seal Wood Doors & Wood Trim
	EXISTING BUILDING AREA																																			
	Existing First Floor Classrooms			O							O				O					O		O		O	O			O					O			
	Existing First Floor Offices			O							O				O					O		O		O	O			O					O			
	Existing First Floor Corridors			O							O				O					O		O		O	O			O					O			
	Existing First Floor Toilets	O							O						O					O		O		O	O			O					O			
	Existing Second Floor Classrooms			O							O				O					O				O	O			O					O			
	Existing Second Floor Corridors			O							O				O					O				O	O			O					O			
	Existing Second Floor Toilets	O							O						O					O				O	O			O					O			
	Existing Stairs			O							O				O	O				O				O	O			O						O		
	Media Center			O							O				O		O			O		O			O							O			O	
	Single User Toilet				O							O			O		O	O												O		O			O	
	Staff Room		O								O				O		O			O								O							O	
	Health		O								O						O			O								O							O	
	Administration Offices			O							O				O		O			O									O						O	
	Lobby		O							O	O				O		O			O		O		O	O				O						O	
	Vestibule		O							O	O				O		O			O		O		O	O					O		O			O	
	Cafeteria		O								O				O					O		O		O	O		O					O		O		
	Team Resource	O							O						O													O					O			
	NEW BUILDING ADDITION																																			
	Classrooms			O							O						O			O								O							O	
	Team Resource Areas		O								O						O			O									O						O	
	Corridors			O							O						O			O				O	O			O							O	
	Vestibules		O								O						O			O				O	O					O		O			O	
	Toilets				O							O					O		O											O		O			O	
	Gymnasium						O				O						O			O				O		O					O	O		O		
	Gym Storage					O							O				O			O											O	O		O		
	Music			O							O						O			O									O							
	Stairs			O							O						O														O			O		
	Custodial Areas					O							O				O			O											O	O		O		
	Mechanical / Electrical Spaces					O							O				O														O			O		

BRAUN
INTERTEC

Braun Intertec Corporation
11001 Hampshire Avenue S
Minneapolis, MN 55438

Phone: 952.995.2000
Fax: 952.995.2020
Web: braunintertec.com

February 27, 2012

Endangered Species Review Coordinator
US Fish and Wildlife Service
3425 Miriam Ave
Bismarck, ND 58501

RE: Request for Threatened or Endangered Species and Rare Natural Features Review
Proposed Longfellow Elementary School Addition
600 16th Street NW
Minot, ND

Dear Review Coordinator:

On behalf of Minot Public Schools, we here request threatened or endangered species and rare natural features review by the USFWS for an addition to an existing elementary school. The project site is located at 600 16th Street NW within the SW1/4 of the SW1/4 of S14, T155N, R83W in Minot, North Dakota. Please refer to the attached maps to clarify the site location.

This request is made pursuant to Section 7 of the Endangered Species Act of 1973, as amended. The information received from you will be used in preparation of an Environmental Assessment required for the project. Please contact Rebecca at 651.487.7013 if you have any questions or require additional information.

Sincerely,

BRAUN INTERTEC CORPORATION

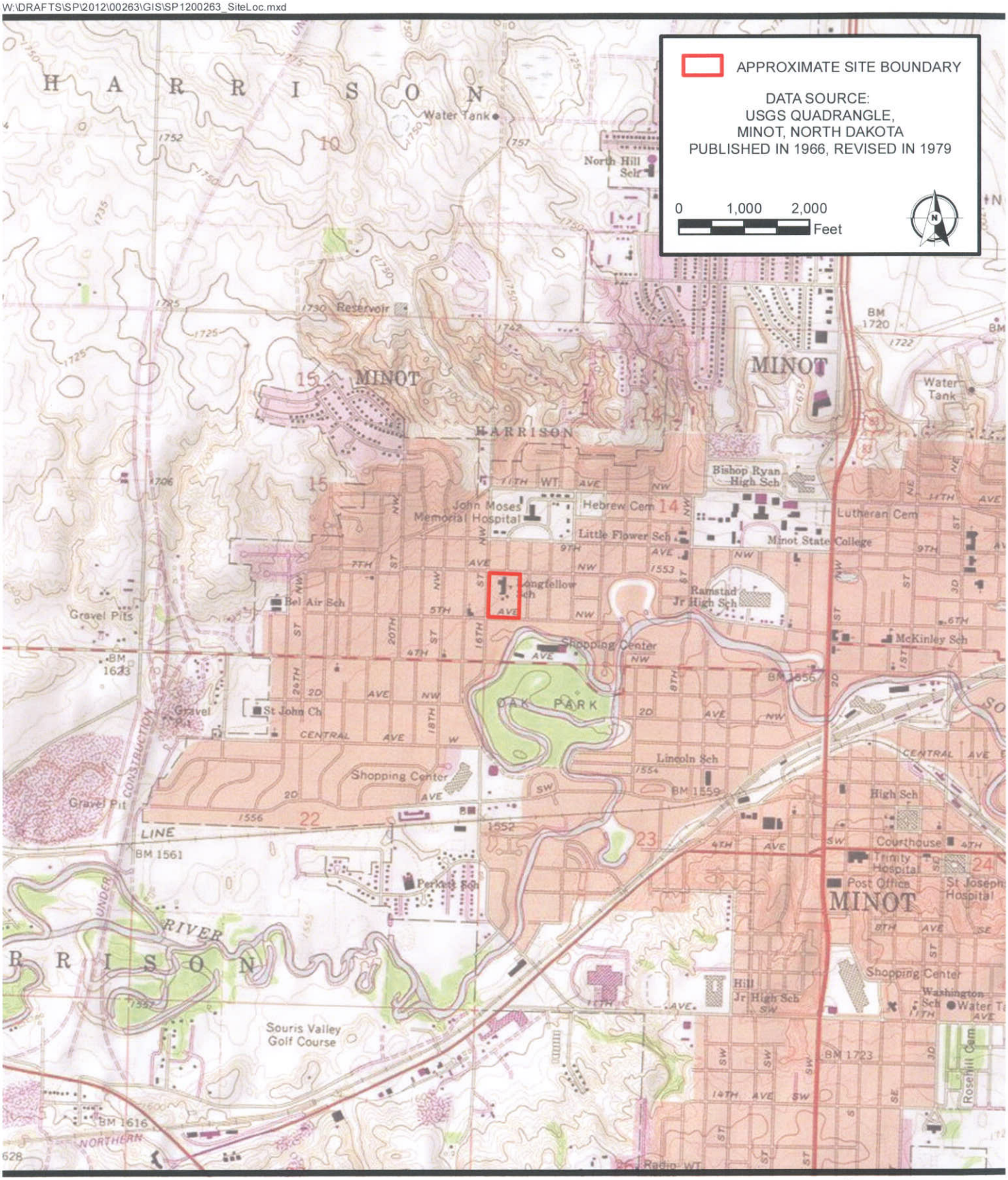
for

M. Rebecca Forman, PhD, CE
Project Scientist

Daniel R. Holte, PG
Vice President

AA/EOE

W:\DRAFTS\SP\2012\00263\GIS\SP1200263_SiteLoc.mxd



Project No:	SP1200263
Drawing No.	SP1200263_SiteLoc
Scale:	1 in = 2,000 ft
Drawn By:	JMJ
Date Drawn:	2/16/12
Checked By:	MRF
Last Modified:	2/16/12

Sheet: 1 of 1

Fig. 1

SITE LOCATION MAP
LONGFELLOW ELEMENTARY SCHOOL ADDITION
600 16TH STREET NW
MINOT, NORTH DAKOTA

BRAUN INTERTEC
11001 Hampshire Avenue So.
Minneapolis, MN 55438
PH. (952) 995-2000
FAX (952) 995-2020

W:\DRAFTS\SP\2012\00263\GIS\SP1200263_SiteVisit.mxd

DRAFT

Project No:	SP1200263
Drawing No.	SP1200263_SiteVisit
Scale:	1 in = 150 ft
Drawn By:	JMJ
Date Drawn:	2/16/12
Checked By:	MRF
Last Modified:	2/16/12

Sheet: 1 of 1

Fig. 0

SITE VISIT MAP
LONGFELLOW ELEMENTARY SCHOOL
600 16TH STREET NW
MINOT, NORTH DAKOTA

BRAUN INTERTEC
11001 Hampshire Avenue So.
Minneapolis, MN 55438
PH. (952) 995-2000
FAX (952) 995-2020

BRAUN INTERTEC

February 27, 2012

Endangered Species Review Coordinator
US Fish and Wildlife Service
3425 Miriam Ave
Bismarck, ND 58501

RE: Request for Threatened or Endangered Species and Rare Natural Features Review
Proposed Longfellow Elementary School Addition
600 16th Street NW
Minot, ND

Dear Review Coordinator:

On behalf of Minot Public Schools, we here request threatened or endangered species and rare natural features review by the USFWS for an addition to an existing elementary school. The project site is located at 600 16th Street NW within the SW1/4 of the SW1/4 of S14, T155N, R83W in Minot, North Dakota. Please refer to the attached maps to clarify the site location.

This request is made pursuant to Section 7 of the Endangered Species Act of 1973, as amended. The information received from you will be used in preparation of an Environmental Assessment required for the project. Please contact Rebecca at 651.487.7013 if you have any questions or require additional information.

Sincerely,

BRAUN INTERTEC CORPORATION

M. Rebecca Forman, PhD, CE
Project Scientist

Daniel R. Holte, PG
Vice President

U.S. FISH AND WILDLIFE SERVICE

ECOLOGICAL SERVICES
ND FIELD OFFICE

Project as described will have no significant impact on fish and wildlife resources. No endangered or threatened species are known to occupy the project area. IF PROJECT DESIGN CHANGES ARE MADE, PLEASE SUBMIT PLANS FOR REVIEW.

3-5-12
Date

Field Supervisor

BRAUN
INTERTEC

Braun Intertec Corporation
1826 Buerkle Road
Saint Paul, MN 55110

Phone: 651.487.3245
Fax: 651.487.1812
Web: braunintertec.com

March 9, 2012

Project SP-12-00263

Mr. Jerome Schaar
Natural Resources Conservation Service
220 East Rosser Avenue
Federal Building, Room 270
Bismarck, ND 58501

RE: Request for Farmland Conversion Impact Rating
Proposed Longfellow Elementary School Addition
600 16th Street NW
Minot, ND

Dear Mr. Picha:

Minot Public Schools is proposing the construction of an addition to the current Longfellow Elementary School located at 600 16th Street NW within the SW1/4 of the SW1/4 of S14, T155N, R83W in Minot, North Dakota. Please refer to the attached maps to clarify the site location.

We request a farmland conversion impact rating. This proposal is being made in support of a FEMA Request for Improved Project review process, and the information received from you will be used in preparation of an Environmental Assessment required for the project. Please contact Rebecca at 651.487.7013 if you have any questions or require additional information.

Sincerely,

BRAUN INTERTEC CORPORATION

Cheryl A. Nelson

Cheryl A. Nelson
Project Assistant

(for)

M. Rebecca Forman, PhD, CE
Project Scientist

United States Department of Agriculture

NRCS

Natural Resources Conservation Service
P.O. Box 1458
Bismarck, ND 58502-1458

March 22, 2012

Cheryl A. Nelson
Braun Intertec
1826 Buerkle Road
Saint Paul, MN 55110

RE: Proposed Longfellow Elementary School Addition
600 16th Street NW
Minot, ND

Dear Ms. Nelson:

The Natural Resources Conservation Service (NRCS) has reviewed your letter dated March 9, 2012, concerning the construction of an addition to the current Longfellow Elementary School located at 600 16th Street NW, Minot, North Dakota.

NRCS has a major responsibility with the Farmland Protection Policy Act (FPPA) in documenting conversion of farmland (i.e., prime, statewide, and local importance) to non-agricultural use when federal funding is used. Your proposed project is within city limits where FPPA does not apply; therefore, no further action is required.

If you have additional questions pertaining to FPPA, please contact Steve Sieler, State Soil Liaison, at (701) 530-2019.

Sincerely,

MICHAEL G. ULMER
State Soil Scientist/MO 7 Leader (Acting)

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Braun Intertec Corporation
1826 Buerkle Road
Saint Paul, MN 55110

Phone: 651.487.3245
Fax: 651.487.1812
Web: braunintertec.com

February 16, 2012

Mr. Paul R. Picha
Chief Archeologist
North Dakota Heritage Center
612 East Boulevard Avenue
Bismarck, ND 58505-0830

RE: Request for Cultural Resources database review
Proposed Longfellow Elementary School Addition
600 16th Street NW
Minot, ND

Dear Mr. Picha:

Minot Public Schools is proposing the construction of an addition to the current Longfellow Elementary School located at 600 16th Street NW within the SW1/4 of the SW1/4 of S14, T155N, R83W in Minot, North Dakota. Please refer to the attached maps to clarify the site location.

Please review the project area to determine whether there are known or likely cultural resources or historic properties at the site. The information received from you will be used in preparation of an Environmental Assessment required for the project. Please contact me at 651.487.7013 or rforman@braunintertec.com if you have any questions or require additional information.

Sincerely,

BRAUN INTERTEC CORPORATION

M. Rebecca Forman

M. Rebecca Forman, PhD, CE
Project Scientist

STATE HISTORICAL SOCIETY OF NORTH DAKOTA

Jack Dalrymple
Governor of North Dakota

North Dakota State Historical Board

Gereld Gerntholz
Valley City - President

Calvin Grinnell
New Town - Vice President

A. Ruric Todd III
Jamestown – Secretary

Albert I. Berger
Grand Forks

Diane K. Larson
Bismarck

Chester E. Nelson, Jr.
Bismarck

Margaret Puetz
Bismarck

Sara Otte Coleman
Director
Tourism Division

Kelly Schmidt
State Treasurer

Alvin A. Jaeger
Secretary of State

Mark Zimmerman
Director
Parks and Recreation Department

Francis Ziegler
Director
Department of Transportation

Merlan E. Paaverud, Jr.
Director

Accredited by the American Association of Museums since 1989

March 28, 2012

Ms. Rebecca Forman
Braun Intertec
1626 Buerkle Road
Saint Paul, MN 55110

ND SHPO REF.:11-2077, Addition to Longfellow Elementary School, 600 16th Street NW, Minot, Ward County, North Dakota

Dear Ms. Forman,

We reviewed ND SHPO REF.:11-2077, Addition to Longfellow Elementary School, 600 16th Street NW, Minot, Ward County, North Dakota and if consulted by a federal agency we would concur with a "No Historic Properties Affected" determination provided the project is of the nature specified, and is restricted to the specific areas described in the correspondence dated February 16, and March 28, 2012.

Thank you for the opportunity to review this project. Please include the ND SHPO Reference number listed above in further correspondence for this specific project. If you have any questions please contact Lisa Steckler, Preservation Planner at (701) 328-3577, lsteckler@nd.gov

Sincerely,

Merlan E. Paaverud, Jr.
State Historic Preservation Officer
(North Dakota) and Director
State Historical Society of North Dakota

BRAUN
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Braun Intertec Corporation
1826 Buerkle Road
Saint Paul, MN 55110

Phone: 651.487.3245
Fax: 651.487.1812
Web: braunintertec.com

February 23, 2012

Project SP-12-00263

Mr. Darrell Smith
Cultural Advisor Cultural Preservation Office
Spirit Lake Sioux Tribe
P.O. Box 475
816 3rd Avenue N.
Fort Totten, ND 58335

RE: Request for Traditional Cultural Properties Review
Proposed Longfellow Elementary School Addition
600 16th Street NW
Minot, ND

Dear Mr. Smith:

The Federal Emergency Management Agency (FEMA) is working with partners at the local and state levels and with other Federal agencies to coordinate the response to the devastating flooding that struck Minot, Ward County, North Dakota in 2011. At that time, the Souris/Mouse River flooded schools as well as businesses and thousands of homes. The school district is applying funding under the Stafford Act to underwrite an improvement project, including an addition to the current Longfellow Elementary School located at 600 16th Street NW within the SW1/4 of the SW1/4 of S14, T155N, R83W in Minot, North Dakota. Please refer to the attached maps to clarify the site location.

FEMA is consulting with the North Dakota Heritage Center (NDHC) regarding the need for cultural resource surveys to inventory resources potentially affected by this project. Should an archaeological survey be necessary, all work will follow NDHC-approved methods and will be subject to the Section 106 review process as required by the National Historic Preservation Act of 1966.

As part of the environmental review process for this project, the school district is required to contact Native American groups regarding the possible effect of the proposed project on cultural properties of historic or traditional significance, referred to as Traditional Cultural Properties (TCPs). We invite your comments on the potential impacts this project may have on lands traditionally used by or sacred to Native American groups. We understand the sensitive nature of much of the information regarding TCPs and assure you in advance that any information you provide will be considered privileged and confidential and will not be made public.

After review of the enclosed documentation, please contact Rebecca Forman at the above address or rforman@braunintertec.com with any information or any questions you may have. We would appreciate a response by mail or email from your office within thirty (30) days. If we receive no response within that time, we will assume that the project has no impact to TCPs of interest and will move forward with the project.

Sincerely,
BRAUN INTERTEC CORPORATION

M. Rebecca Forman

M. Rebecca Forman, PhD, CE
Project Scientist

AA/EOE

BRAUN INTERTEC

Braun Intertec Corporation
1826 Buerkle Road
Saint Paul, MN 55110

Phone: 651.487.3245
Fax: 651.487.1812
Web: braunintertec.com

February 23, 2012

Project SP-12-00263

Mr. Elgin CrowsBreast
Tribal Historic Preservation Officer
Mandan Hidatsa and Arikara Nation
404 Frontage Road
New Town, ND 58763

RE: Request for Traditional Cultural Properties Review
Proposed Longfellow Elementary School Addition
600 16th Street NW
Minot, ND

Dear Mr. CrowsBreast:

The Federal Emergency Management Agency (FEMA) is working with partners at the local and state levels and with other Federal agencies to coordinate the response to the devastating flooding that struck Minot, Ward County, North Dakota in 2011. At that time, the Souris/Mouse River flooded schools as well as businesses and thousands of homes. The school district is applying funding under the Stafford Act to underwrite an improvement project, including an addition to the current Longfellow Elementary School located at 600 16th Street NW within the SW1/4 of the SW1/4 of S14, T155N, R83W in Minot, North Dakota. Please refer to the attached maps to clarify the site location.

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Sincerely,
BRAUN INTERTEC CORPORATION

M. Rebecca Forman

M. Rebecca Forman, PhD, CE
Project Scientist

BRAUN INTERTEC

Braun Intertec Corporation
1826 Buerkle Road
Saint Paul, MN 55110

Phone: 651.487.3245
Fax: 651.487.1812
Web: braunintertec.com

February 23, 2012

Project SP-12-00263

Mr. Anthony Morse
Tribal Historic Preservation Officer
Lower Sioux Indian Community
P.O. Box 308
Res. Hwy 1
Morton, MN 56270

RE: Request for Traditional Cultural Properties Review
Proposed Longfellow Elementary School Addition
600 16th Street NW
Minot, ND

Dear Mr. Morse:

The Federal Emergency Management Agency (FEMA) is working with partners at the local and state levels and with other Federal agencies to coordinate the response to the devastating flooding that struck Minot, Ward County, North Dakota in 2011. At that time, the Souris/Mouse River flooded schools as well as businesses and thousands of homes. The school district is applying funding under the Stafford Act to underwrite an improvement project, including an addition to the current Longfellow Elementary School located at 600 16th Street NW within the SW1/4 of the SW1/4 of S14, T155N, R83W in Minot, North Dakota. Please refer to the attached maps to clarify the site location.

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After review of the enclosed documentation, please contact Rebecca Forman at the above address or rforman@braunintertec.com with any information or any questions you may have. We would appreciate a response by mail or email from your office within thirty (30) days. If we receive no response within that time, we will assume that the project has no impact to TCPs of interest and will move forward with the project.

Sincerely,
BRAUN INTERTEC CORPORATION

M. Rebecca Forman

M. Rebecca Forman, PhD, CE
Project Scientist

BRAUN
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Braun Intertec Corporation
1826 Buerkle Road
Saint Paul, MN 55110

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Fax: 651.487.1812
Web: braunintertec.com

February 23, 2012

Project SP-12-00263

Mr. Kade Ferris
Director of Nature Resource
Turtle Mountain Band of Chippewa
P.O. Box 900
Belcourt, ND 58316

RE: Request for Traditional Cultural Properties Review
Proposed Longfellow Elementary School Addition
600 16th Street NW
Minot, ND

Dear Mr. Ferris:

The Federal Emergency Management Agency (FEMA) is working with partners at the local and state levels and with other Federal agencies to coordinate the response to the devastating flooding that struck Minot, Ward County, North Dakota in 2011. At that time, the Souris/Mouse River flooded schools as well as businesses and thousands of homes. The school district is applying funding under the Stafford Act to underwrite an improvement project, including an addition to the current Longfellow Elementary School located at 600 16th Street NW within the SW1/4 of the SW1/4 of S14, T155N, R83W in Minot, North Dakota. Please refer to the attached maps to clarify the site location.

FEMA is consulting with the North Dakota Heritage Center (NDHC) regarding the need for cultural resource surveys to inventory resources potentially affected by this project. Should an archaeological survey be necessary, all work will follow NDHC-approved methods and will be subject to the Section 106 review process as required by the National Historic Preservation Act of 1966.

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After review of the enclosed documentation, please contact Rebecca Forman at the above address or rforman@braunintertec.com with any information or any questions you may have. We would appreciate a response by mail or email from your office within thirty (30) days. If we receive no response within that time, we will assume that the project has no impact to TCPs of interest and will move forward with the project.

Sincerely,
BRAUN INTERTEC CORPORATION

M. Rebecca Forman

M. Rebecca Forman, PhD, CE
Project Scientist

AA/EOE

BRAUN
INTERTEC

Braun Intertec Corporation
1826 Buerkle Road
Saint Paul, MN 55110

Phone: 651.487.3245
Fax: 651.487.1812
Web: braunintertec.com

February 23, 2012

Project SP-12-00263

Mr. Curly Youpee
Director Cultural Resource Department and Native American Graves
Protection and Repatriation Act Coordinator
Fort Peck Dakota & Assiniboine Tribes
Box 1207
Poplar, MT 59255

RE: Request for Traditional Cultural Properties Review
Proposed Longfellow Elementary School Addition
600 16th Street NW
Minot, ND

Dear Mr. Youpee:

The Federal Emergency Management Agency (FEMA) is working with partners at the local and state levels and with other Federal agencies to coordinate the response to the devastating flooding that struck Minot, Ward County, North Dakota in 2011. At that time, the Souris/Mouse River flooded schools as well as businesses and thousands of homes. The school district is applying funding under the Stafford Act to underwrite an improvement project, including an addition to the current Longfellow Elementary School located at 600 16th Street NW within the SW1/4 of the SW1/4 of S14, T155N, R83W in Minot, North Dakota. Please refer to the attached maps to clarify the site location.

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After review of the enclosed documentation, please contact Rebecca Forman at the above address or rforman@braunintertec.com with any information or any questions you may have. We would appreciate a response by mail or email from your office within thirty (30) days. If we receive no response within that time, we will assume that the project has no impact to TCPs of interest and will move forward with the project.

Sincerely,
BRAUN INTERTEC CORPORATION

M. Rebecca Forman

M. Rebecca Forman, PhD, CE
Project Scientist

BRAUN INTERTEC

Braun Intertec Corporation
1826 Buerkle Road
Saint Paul, MN 55110

Phone: 651.487.3245
Fax: 651.487.1812
Web: braunintertec.com

February 23, 2012

Project SP-12-00263

Waste' Win Young
Tribal Historic Preservation Officer
Standing Rock Sioux Tribe
P.O. Box D
Fort Yates, ND 58538

RE: Request for Traditional Cultural Properties Review
Proposed Longfellow Elementary School Addition
600 16th Street NW
Minot, ND

Dear Waste' Win Young:

The Federal Emergency Management Agency (FEMA) is working with partners at the local and state levels and with other Federal agencies to coordinate the response to the devastating flooding that struck Minot, Ward County, North Dakota in 2011. At that time, the Souris/Mouse River flooded schools as well as businesses and thousands of homes. The school district is applying funding under the Stafford Act to underwrite an improvement project, including an addition to the current Longfellow Elementary School located at 600 16th Street NW within the SW1/4 of the SW1/4 of S14, T155N, R83W in Minot, North Dakota. Please refer to the attached maps to clarify the site location.

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After review of the enclosed documentation, please contact Rebecca Forman at the above address or rforman@braunintertec.com with any information or any questions you may have. We would appreciate a response by mail or email from your office within thirty (30) days. If we receive no response within that time, we will assume that the project has no impact to TCPs of interest and will move forward with the project.

Sincerely,
BRAUN INTERTEC CORPORATION

M. Rebecca Forman

M. Rebecca Forman, PhD, CE
Project Scientist

AA/EOE

BRAUN INTERTEC

Braun Intertec Corporation
1826 Buerkle Road
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Fax: 651.487.1812
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February 23, 2012

Project SP-12-00263

Dianne Desrosiers & Jim Whitted
Tribal Historic Preservation Officer
Sisseton/Wahpeton Oyate
P.O. Box 907
Suite 207, 205 Oak Street E.
Sisseton, SD 57262

RE: Request for Traditional Cultural Properties Review
Proposed Longfellow Elementary School Addition
600 16th Street NW
Minot, ND

Dear Dianne Desrosiers and Jim Whitted:

The Federal Emergency Management Agency (FEMA) is working with partners at the local and state levels and with other Federal agencies to coordinate the response to the devastating flooding that struck Minot, Ward County, North Dakota in 2011. At that time, the Souris/Mouse River flooded schools as well as businesses and thousands of homes. The school district is applying funding under the Stafford Act to underwrite an improvement project, including an addition to the current Longfellow Elementary School located at 600 16th Street NW within the SW1/4 of the SW1/4 of S14, T155N, R83W in Minot, North Dakota. Please refer to the attached maps to clarify the site location.

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After review of the enclosed documentation, please contact Rebecca Forman at the above address or rforman@braunintertec.com with any information or any questions you may have. We would appreciate a response by mail or email from your office within thirty (30) days. If we receive no response within that time, we will assume that the project has no impact to TCPs of interest and will move forward with the project.

Sincerely,
BRAUN INTERTEC CORPORATION

M. Rebecca Forman

M. Rebecca Forman, PhD, CE
Project Scientist

BRAUN
INTERTEC

Braun Intertec Corporation
1826 Buerkle Road
Saint Paul, MN 55110

Phone: 651.487.3245
Fax: 651.487.1812
Web: braunintertec.com

February 23, 2012

Project SP-12-00263

Mr. Hubert Two Leggins
Cultural/Renewable Resources Director
Apsaalooke (Crow Tribe)
P.O. Box 159
Crow Agency, MT 59022

RE: Request for Traditional Cultural Properties Review
Proposed Longfellow Elementary School Addition
600 16th Street NW
Minot, ND

Dear Mr. Hubert Two Leggins:

The Federal Emergency Management Agency (FEMA) is working with partners at the local and state levels and with other Federal agencies to coordinate the response to the devastating flooding that struck Minot, Ward County, North Dakota in 2011. At that time, the Souris/Mouse River flooded schools as well as businesses and thousands of homes. The school district is applying funding under the Stafford Act to underwrite an improvement project, including an addition to the current Longfellow Elementary School located at 600 16th Street NW within the SW1/4 of the SW1/4 of S14, T155N, R83W in Minot, North Dakota. Please refer to the attached maps to clarify the site location.

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After review of the enclosed documentation, please contact Rebecca Forman at the above address or rforman@braunintertec.com with any information or any questions you may have. We would appreciate a response by mail or email from your office within thirty (30) days. If we receive no response within that time, we will assume that the project has no impact to TCPs of interest and will move forward with the project.

Sincerely,
BRAUN INTERTEC CORPORATION

M. Rebecca Forman

M. Rebecca Forman, PhD, CE
Project Scientist

AA/EOE

BRAUN
INTERTEC

Braun Intertec Corporation
1826 Buerkle Road
Saint Paul, MN 55110

Phone: 651.487.3245
Fax: 651.487.1812
Web: brauninterlec.com

February 23, 2012

Project SP-12-00263

Mr. Conrad Fisher
Tribal Historic Preservation Officer
PO Box 128
Lame Deer, MT 59043

RE: Request for Traditional Cultural Properties Review
Proposed Longfellow Elementary School Addition
600 16th Street NW
Minot, ND

Dear Mr. Fisher:

The Federal Emergency Management Agency (FEMA) is working with partners at the local and state levels and with other Federal agencies to coordinate the response to the devastating flooding that struck Minot, Ward County, North Dakota in 2011. At that time, the Souris/Mouse River flooded schools as well as businesses and thousands of homes. The school district is applying funding under the Stafford Act to underwrite an improvement project, including an addition to the current Longfellow Elementary School located at 600 16th Street NW within the SW1/4 of the SW1/4 of S14, T155N, R83W in Minot, North Dakota. Please refer to the attached maps to clarify the site location.

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After review of the enclosed documentation, please contact Rebecca Forman at the above address or rforman@braunintertec.com with any information or any questions you may have. We would appreciate a response by mail or email from your office within thirty (30) days. If we receive no response within that time, we will assume that the project has no impact to TCPs of interest and will move forward with the project.

Sincerely,
BRAUN INTERTEC CORPORATION

M. Rebecca Forman

M. Rebecca Forman, PhD, CE
Project Scientist

BRAUN
INTERTEC

Braun Intertec Corporation
1826 Buerkle Road
Saint Paul, MN 55110

Phone: 651.487.3245
Fax: 651.487.1812
Web: braunintertec.com

February 23, 2012

Project SP-12-00263

Mr. Dennis Gill
Title Spokesperson
Walpekute Band of Dakota
3322 Gill Road
Waubay, SD 57273

RE: Request for Traditional Cultural Properties Review
Proposed Longfellow Elementary School Addition
600 16th Street NW
Minot, ND

Dear Mr. Gill:

The Federal Emergency Management Agency (FEMA) is working with partners at the local and state levels and with other Federal agencies to coordinate the response to the devastating flooding that struck Minot, Ward County, North Dakota in 2011. At that time, the Souris/Mouse River flooded schools as well as businesses and thousands of homes. The school district is applying funding under the Stafford Act to underwrite an improvement project, including an addition to the current Longfellow Elementary School located at 600 16th Street NW within the SW1/4 of the SW1/4 of S14, T155N, R83W in Minot, North Dakota. Please refer to the attached maps to clarify the site location.

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Project Scientist

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Saint Paul, MN 55110

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Web: braunintertec.com

February 23, 2012

Project SP-12-00263

Mr. Dennis Eagle Bear
THPO
Rosebud Sioux Tribe
PO Box 809
Rosebud, SD 57570

RE: Request for Traditional Cultural Properties Review
Proposed Longfellow Elementary School Addition
600 16th Street NW
Minot, ND

Dear Mr. Eagle Bear:

The Federal Emergency Management Agency (FEMA) is working with partners at the local and state levels and with other Federal agencies to coordinate the response to the devastating flooding that struck Minot, Ward County, North Dakota in 2011. At that time, the Souris/Mouse River flooded schools as well as businesses and thousands of homes. The school district is applying funding under the Stafford Act to underwrite an improvement project, including an addition to the current Longfellow Elementary School located at 600 16th Street NW within the SW1/4 of the SW1/4 of S14, T155N, R83W in Minot, North Dakota. Please refer to the attached maps to clarify the site location.

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BRAUN INTERTEC CORPORATION

M. Rebecca Forman

M. Rebecca Forman, PhD, CE
Project Scientist

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1826 Buerkle Road
Saint Paul, MN 55110

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Fax: 651.487.1812
Web: braunintertec.com

February 23, 2012

Project SP-12-00263

Mr. Wilmer Mesteth
THPO
Ogalala Sioux Tribe
PO Box 320
Pine Ridge, SD 57770

RE: Request for Traditional Cultural Properties Review
Proposed Longfellow Elementary School Addition
600 16th Street NW
Minot, ND

Dear Mr. Mesteth:

The Federal Emergency Management Agency (FEMA) is working with partners at the local and state levels and with other Federal agencies to coordinate the response to the devastating flooding that struck Minot, Ward County, North Dakota in 2011. At that time, the Souris/Mouse River flooded schools as well as businesses and thousands of homes. The school district is applying funding under the Stafford Act to underwrite an improvement project, including an addition to the current Longfellow Elementary School located at 600 16th Street NW within the SW1/4 of the SW1/4 of S14, T155N, R83W in Minot, North Dakota. Please refer to the attached maps to clarify the site location.

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Sincerely,
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M. Rebecca Forman

M. Rebecca Forman, PhD, CE
Project Scientist

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Saint Paul, MN 55110

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February 23, 2012

Project SP-12-00263

Mr. Robert Campbell
Santee Sioux Tribal Councilman
108 Spirit Lake Avenue West
Nibobrara, NE 68760

RE: Request for Traditional Cultural Properties Review
Proposed Longfellow Elementary School Addition
600 16th Street NW
Minot, ND

Dear Mr. Campbell:

The Federal Emergency Management Agency (FEMA) is working with partners at the local and state levels and with other Federal agencies to coordinate the response to the devastating flooding that struck Minot, Ward County, North Dakota in 2011. At that time, the Souris/Mouse River flooded schools as well as businesses and thousands of homes. The school district is applying funding under the Stafford Act to underwrite an improvement project, including an addition to the current Longfellow Elementary School located at 600 16th Street NW within the SW1/4 of the SW1/4 of S14, T155N, R83W in Minot, North Dakota. Please refer to the attached maps to clarify the site location.

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BRAUN INTERTEC CORPORATION

M. Rebecca Forman

M. Rebecca Forman, PhD, CE
Project Scientist

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Saint Paul, MN 55110

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February 23, 2012

Project SP-12-00263

Mr. Franky Jackson
THPO
Santee Sioux Tribal Councilman
108 Spirit Lake Avenue West
Nibobrara, NE 68760

RE: Request for Traditional Cultural Properties Review
Proposed Longfellow Elementary School Addition
600 16th Street NW
Minot, ND

Dear Mr. Jackson:

The Federal Emergency Management Agency (FEMA) is working with partners at the local and state levels and with other Federal agencies to coordinate the response to the devastating flooding that struck Minot, Ward County, North Dakota in 2011. At that time, the Souris/Mouse River flooded schools as well as businesses and thousands of homes. The school district is applying funding under the Stafford Act to underwrite an improvement project, including an addition to the current Longfellow Elementary School located at 600 16th Street NW within the SW1/4 of the SW1/4 of S14, T155N, R83W in Minot, North Dakota. Please refer to the attached maps to clarify the site location.

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Sincerely,
BRAUN INTERTEC CORPORATION

M. Rebecca Forman

M. Rebecca Forman, PhD, CE
Project Scientist

AA/PDE

Forman, Rebecca

From: Nelson, Cheryl
Sent: Thursday, February 23, 2012 3:10 PM
To: Forman, Rebecca
Subject: FW: Request for Traditional cultural Properties Review

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From: RST Historic Preservation [mailto:rstthpo@yahoo.com]
Sent: Thursday, February 23, 2012 3:09 PM
To: Nelson, Cheryl
Subject: Re: Request for Traditional cultural Properties Review

Good Afternoon Ms. Nelson,

I appreciate your notification of the undertaking and the awareness you are demonstrating for the archaeological sites and cultural heritage of Indigenous peoples.

Please give my office notice if archaeological surveys are being conducted in this area, if inadvertent discoveries were found within the area, and if any traditional cultural properties (TCP's) that you are aware of may be affected by this undertaking.

In review of the area shown on the accompanying maps of your proposed undertaking we do not have sites listed in our data base. This does not preclude the possibility of a site of heritage importance being located by the forest personnel or an archaeological contractor that may have an oral reference among the Rosebud people.

If sites are to be affected by this undertaking, please notify my office as soon as possible for consultation.

Thank you.

Russell Eagle Bear, Officer
Rosebud Sioux Tribe
Tribal Historic Preservation Office
PO Box 809
Rosebud, SD 57570
rstthpo@yahoo.com
(605) 747-4255 - Office phone
(605) 747-4211 - Fax
(605) 828-1267 - Cell

From: "Nelson, Cheryl" <CNelson@braunintertec.com>
To: "'rstthpo@yahoo.com'" <rstthpo@yahoo.com>
Sent: Thursday, February 23, 2012 1:27 PM
Subject: Request for Traditional cultural Properties Review

Attached please find two requests for Traditional Cultural Properties Review. Hard copies will follow by US mail.

Regards.

Forman, Rebecca

From: Nelson, Cheryl
Sent: Friday, February 24, 2012 9:50 AM
To: Forman, Rebecca
Subject: Fw: Request for Traditional Cultural Properties Review

-----Original message-----
From: Franky Jackson <fjackson005@yahoo.com>
To: "Nelson, Cheryl" <CNelson@braunintertec.com>
Cc: James Weston <jb.weston@fsst.org>, Kade Ferris <kade@tribalresources.com>
Sent: Thu, Feb 23, 2012 22:38:35 GMT+00:00
Subject: Re: Request for Traditional Cultural Properties Review

Cheryl thank you for the opportunity to provide comment with regard to the below mentioned project located in Minot, North Dakota. The Flandreau Santee Sioux tribe of South Dakota defers all comments related to this project to the Turtle Mountain THPO.

The FSST has a strong working relationship with the THPO for the Turtle Mountain Band of Chippewa Indians and we trust that the THPO will consult with your agency in accordance to Section 106 of the NHPA. We thank you again for the opportunity and wish you luck with your project.

Franky Jackson
Clutural Resource Consultant
Flandreau Santee Sioux Tribe
From: "Nelson, Cheryl" <CNelson@braunintertec.com>
To: "'fjackson005@yahoo.com'" <fjackson005@yahoo.com>
Sent: Thursday, February 23, 2012 1:20 PM
Subject: Request for Traditional Cultural Properties Review

Attached please find two requests for Traditional Cultural Properties Review. Hard copies will follow by US mail.

Regards,
Cheryl A. Nelson (for)

Rebecca Forman, PhD, CE
Project Scientist
Braun Intertec
1826 Buerkle Road | St. Paul, MN 55110
651.487.7013 direct | 612.360.0731 mobile
rforman@braunintertec.com

Federal Emergency Management Agency
PUBLIC NOTICE
Notice of Availability of the Draft Environmental Assessment
For Longfellow Elementary School Addition
City of Minot, Ward County, North Dakota

Environmental Assessment (EA) for the Longfellow Elementary School Addition construction project.

Interested persons are hereby notified that the Federal Emergency Management Agency (FEMA)/Department of Homeland Security (DHS) is proposing to provide funding for the construction of an addition to Longfellow Elementary School for the City of Minot. This project is to construct a two-story, 41,819-square foot addition to the existing Longfellow Elementary School, as well as to reconfigure parking areas at the site. This additional school capacity will allow Longfellow Elementary School to house both current Longfellow and Lincoln Elementary School students. In accordance with the National Environmental Policy Act (NEPA) of 1969 and the implementing regulations of FEMA, an EA is being prepared to assess the potential impacts of each of the proposed alternatives on the human and natural environment. This also provides public notice to invite public comments on the proposed project in accordance with Executive Order 11988, Floodplain Management, and Executive Order 11990, Protection of Wetlands. In addition, this notice and the draft EA provide information to the public on potential impacts to historic and cultural resources from the proposed undertaking, as outlined in the National Historic Preservation Act (NHPA) of 1966.

The draft EA is available for review between April 23, 2012 and May 8, 2012 at the Minot City Hall located at 515 2nd Ave SW, Minot, ND 58702. The draft EA is also available for review online at the FEMA website http://www.fema.gov/plan/ehp/envdocuments/ea-region8.shtm.

Written comments regarding this environmental action should be received no later than 5 p.m. on May 8, 2012, by M. Rebecca Forman, Project Scientist, Braun Intertec, 1826 Buerkle Road, St. Paul, MN 55110 or at rforman@braunintertec.com

If no substantive comments are received by the above deadline, the draft EA and associated Finding of No Significant Impact (FONSI) will become final and be published by FEMA. Substantive comments will be addressed as appropriate in the final documents.

The public may request a copy of the final environmental documents from M. Rebecca Forman at the address listed above.