Appendix B: Facility Conditions Index Report

DRAFT

Combined Condition Assessment

Thirkell Elementary School

7724 14th Street, Detroit, Michigan

DRAFT

February 2017

DTMB Technology, Management & Budget
State Facilities Administration

SRO
STATE SCHOOL REFORM/REDESIGN OFFICE
Michigan Department of Technology, Management and Budget

LARA
LICENSING AND REGULATORY AFFAIRS
CUSTOMER DRIVEN. BUSINESS MINDED
Bureau of Construction Codes

Executive Summary

This Combined Condition Assessment is the product of a collaborative site assessment and survey by the Department of Technology Management and Budget, State Facilities Administration (SFA) and the Department of Licensing and Regulatory Affairs (LARA) Bureau of Construction Codes at the request of the State School Reform/Redesign Office (SRO).

It has been designed to provide a general condition overview of the facility and major site assets. A team visits the site and collects data to determine two factors in eight facilities categories:

Factors:

- ***Remaining Service Life*** of Facility Elements or Systems which is then utilized to calculate an ***Age-Based Condition Index***.
- ***Operating Condition*** based upon visual observations the day of the visit along with supporting information/records provided by staff or contact personnel.
- Results of the two factors above are averaged/combined to produce a single ***Combined Condition Score (CCS)*** for the site.

Facilities Categories:

- Structure – Foundation, Parking Lots, Sidewalks, Access
- Exterior – Walls, Windows, Stairways, Doors
- Roofing – Roofing Type and Condition
- HVAC – Air Handlers, Boilers, Chillers, Gas Piping, Cooling Towers, Pumps, Exhaust, etc.
- Electrical – Service & Distribution, Lighting, Emergency Generator, Fire Alarm, Kitchen
- Plumbing – Restrooms, Backflow, Domestic Water/Heating, Distribution, Fire System
- Conveying – Elevators, Lifts
- Interior Construction – Doors, Stairways, Walls, Ceilings, Flooring

Results:

The Thirkell Elementary School assessment was performed on ***February 13, 2017*** by the LARA team and resulted in a ***CCS*** of: 45.4

Combined Condition Score (CCS)

There are many ways to measure physical condition of a facility. Performing full, detailed assessments necessary to calculate a Facility Condition Index (FCI), Extended Facility Condition Index (EFCI) or Facilities Needs Index (FNI) are very demanding in terms of input resources up front. This project required an efficient, lean approach whereby an assessment team could

DRAFT

move through occupied space quickly with minimal disruption while collecting data. The output needed to be measurable and consistent. While additional information such as annual reinvestment rates and replacement costs may also be desirable, these were outside the scope of this first visit.

The DTMB State Facilities Administration (SFA), Building Operations Division assesses buildings within their own portfolio for capital planning purposes. These assessments may be age-based, where the age of building elements or assets are compared to their respective design-life; or observed-condition-based where defects and site conditions are observed and rated.

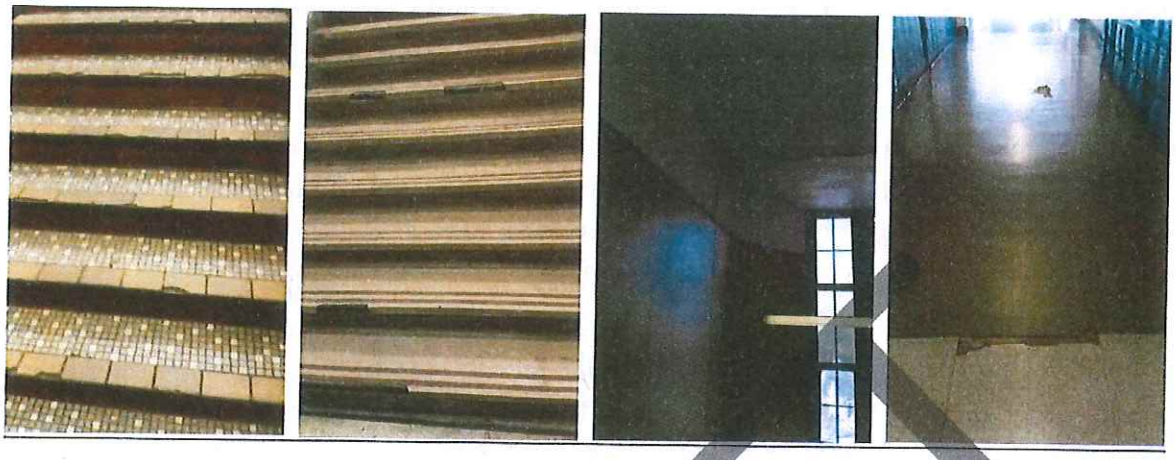
The Combined Condition Score is a combination of both the age-based condition index and observed condition, equally weighted and averaged together resulting in a number between 0 and 100. This number will be indicative of overall facility condition and can be used to order facilities by respective condition relative to others.

- A score of 100 indicates a brand new, unoccupied facility with no construction defects and no code violations.
- A score of 0 indicates a very old facility with no usable architectural elements or attached assets.
- Realistically speaking, all occupied buildings will score more than zero and less than 100.
- The lower the score, the less cost effective to operate the building. A good rule-of-thumb is when the score falls below 34, equivalent annual cost to replace a facility will be less than continuing to operate and maintain the existing facility.

Building Exterior

DRAFT

Building Interior



Site Narrative

The assessment team completed the site visit/inspection on February 13, 2017. The Team reviewed the exterior of the building including roofing, exterior walls, generator and outdoor mechanicals. The team then moved inside and reviewed interior finishes and mechanicals including but not limited to, walls and ceilings, foundations, boiler heating, plumbing, HVAC systems, and electrical systems in the building. The following was validated/noted during the inspection with site personnel:

- The site was originally constructed in 1964.
- Electrical service, switchgear and primary transformer recently updated.
- The heating boiler is original to the building.
- The exterior is brick.
- Some water intrusion was noted due to roof leaks.
- Stair tread, nosing and floor tile damage was noted on the day of the site visit.

The full Combined Condition Assessment is as follows:

DRAFT

BUILDING NAME: Thirkell Elementary School BUILT: 6/1/1964 ASSESSMENT DATE: 2/13/2017

CATEGORY	SUB-CATEGORY	TYPE	INSTALLED DATE	(YEARS) SERVICE LIFE	AGE	REMAINING SERVICE LIFE	AGE-BASED CONDITION INDEX	INSPECTED OPERATING CONDITION	COMMENTS
STRUCTURE						5.6	22.6	75.0	
	FOUNDATION		6/1/1964	75.0	52.7	22.3	50.6	75.0	
	PARKING LOTS		6/1/1994	15.0	22.7	-7.7	0.0	75.0	
	PEDESTRIAN PAVING		6/1/1994	25.0	22.7	2.3	17.3	75.0	
EXTERIOR						29.8	70.2	75.0	
	WALLS		6/1/1994	70.0	22.7	47.3	89.5	75.0	
	WINDOWS		6/1/1994	30.0	22.7	7.3	42.6	75.0	
	STAIRWAYS		6/1/1994	75.0	22.7	52.3	90.8	75.0	
	DOORS		6/1/1994	35.0	22.7	12.3	57.8	75.0	
ROOF						-2.7	0.0	67.9	
	ROOF COVERING		6/1/1994	20.0	22.7	-2.7	0.0	67.9	
HVAC						8.1	22.2	50.0	
	AIR HANDLING UNITS		6/1/1994	20.0	22.7	-2.7	0.0	50.0	
	BOILERS		6/1/1994	30.0	22.7	7.3	42.6	50.0	
	CHILLERS								
	GAS PIPING SYSTEMS		6/1/1994	75.0	22.7	52.3	90.8	50.0	
	COOLING TOWERS								
	PUMPS		6/1/1994	20.0	22.7	-2.7	0.0	50.0	
	EXHAUST SYSTEMS		6/1/1994	20.0	22.7	-2.7	0.0	50.0	
	WALK IN FREEZERS		6/1/1994	20.0	22.7	-2.7	0.0	50.0	
	VENT AND POOL HEATERS								
	COOLING PIPING								
ELECTRICAL						-32.7	0.0	51.3	
	ELECTRICAL SERVICE/DISTRIBUTION		6/1/1964	50.0	52.7	-2.7	0.0	56.3	
	LIGHTING		6/1/1964	20.0	52.7	-32.7	0.0	50.0	
	EMERGENCY GENERATOR								
	KITCHEN EQUIPMENT		6/1/1994	20.0	22.7	-2.7	0.0	50.0	
	INTERCOM / PA EQUIPMENT		6/1/1994	20.0	22.7	-2.7	0.0	50.0	
	FIRE ALARM SYSTEM		6/1/1994	20.0	22.7	-2.7	0.0	50.0	
PLUMBING						7.3	45.2	51.5	
	RESTROOMS		6/1/1994	30.0	22.7	7.3	42.6	60.7	
	BACKFLOW PREVENTERS		6/1/1994	10.0	22.7	-12.7	0.0	50.0	
	GENERAL		6/1/1994	35.0	22.7	12.3	57.8	50.0	
	FOOD SERVICE		6/1/1994	35.0	22.7	12.3	57.8	50.0	
	DOMESTIC WATER HEATING		6/1/1994	15.0	22.7	-7.7	0.0	50.0	
	WATER DISTRIBUTION		6/1/1994	75.0	22.7	52.3	90.8	50.0	
	FIRE SUPPRESSION		6/1/1994	40.0	22.7	17.3	67.7	50.0	
CONVEYING									
	ELEVATORS								
INTERIOR CONSTRUCTION						24.3	63.4	66.3	
	DOORS		6/1/1994	40.0	22.7	17.3	67.7	75.0	
	STAIRWAYS		6/1/1994	50.0	22.7	27.3	79.3	68.8	
	WALLS		6/1/1994	75.0	22.7	52.3	90.8	75.0	
	CEILINGS		6/1/1994	20.0	22.7	-2.7	0.0	50.0	
	FLOORS		6/1/1994	50.0	22.7	27.3	79.3	62.5	

2002-$1.6M

BUILDING EXTERIOR FT^2
145,118

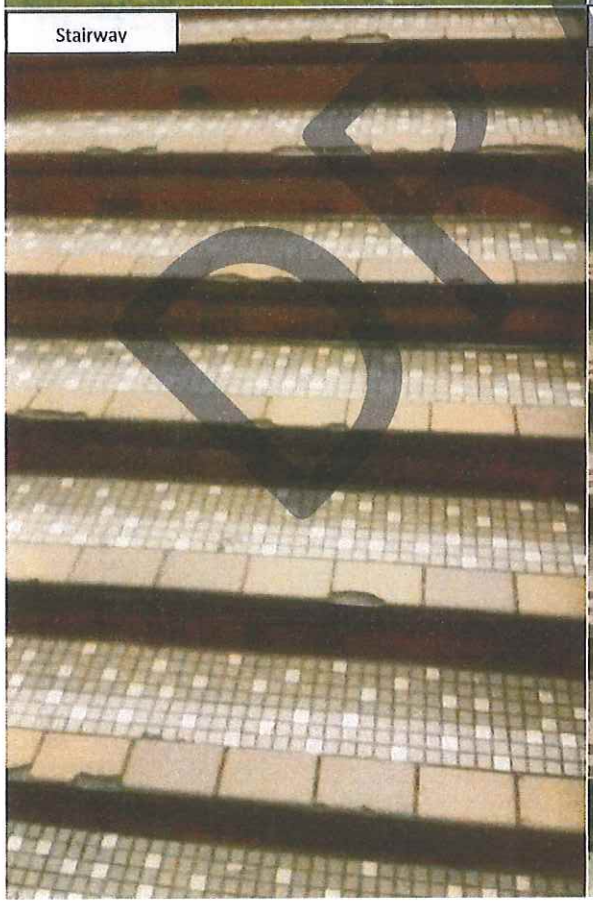
AVERAGE SERVICE LIFE	AGE	REMAINING SERVICE LIFE	CONDITION INDEX	OBSERVED CONDITION	COMBINED CONDITION SCORE
36.6	25.6	5.6	31.3	59.4	45.4

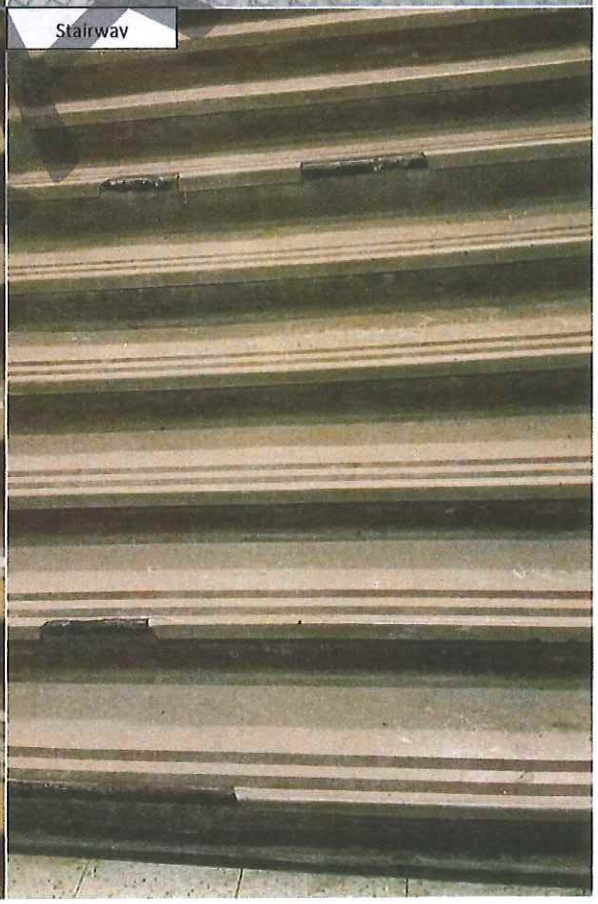
DRAFT

DRAFT

Exterior

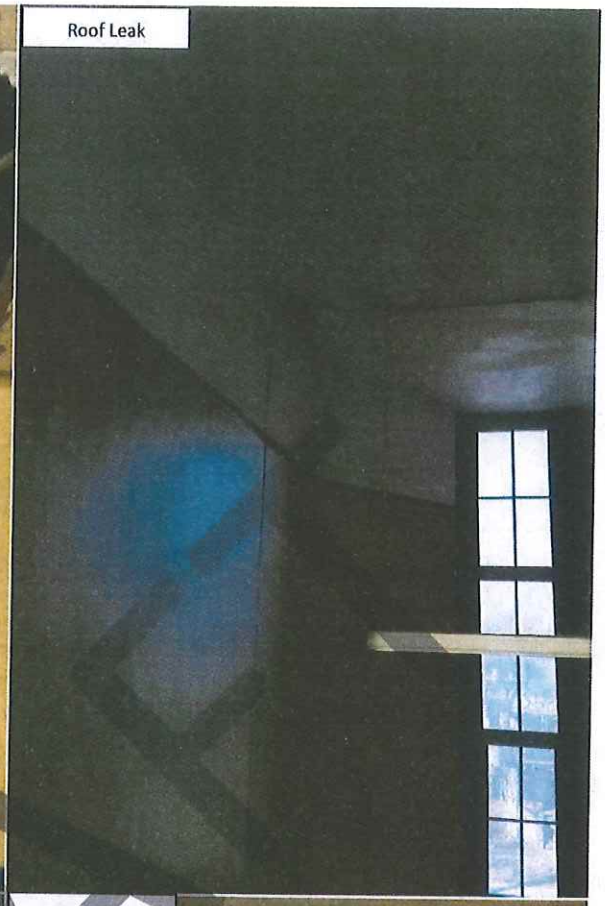
Stairway

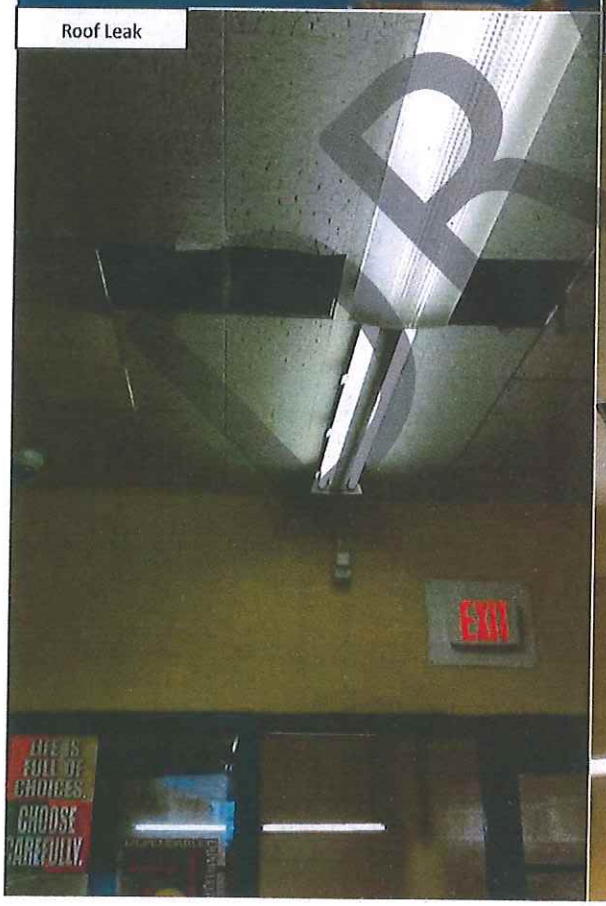

Stairway

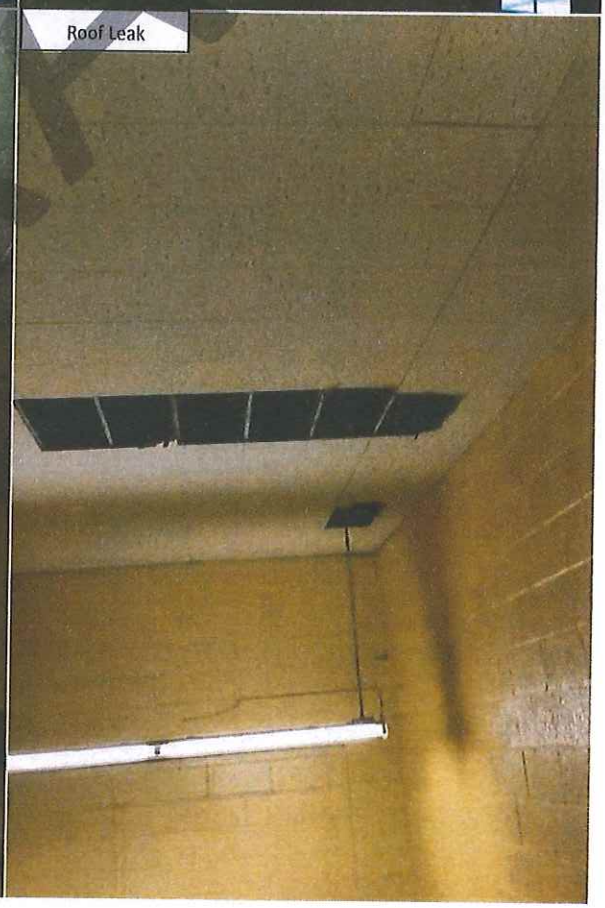

Stairway

DRAFT

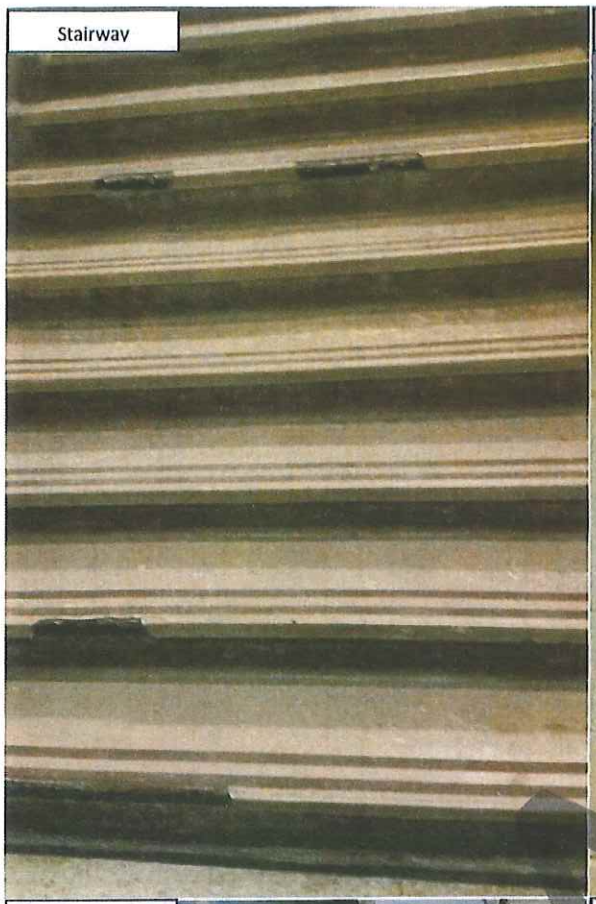
Roof Leak

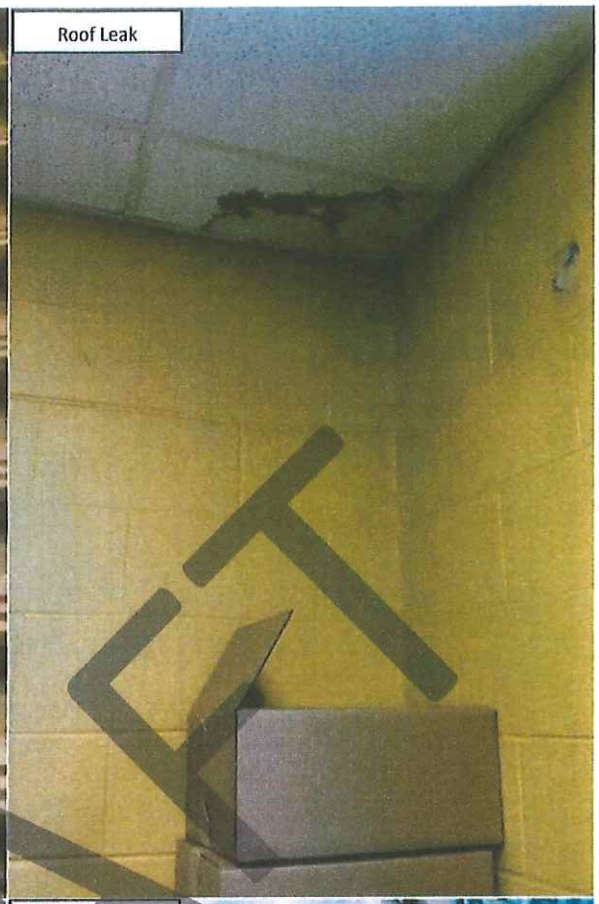

Roof Leak

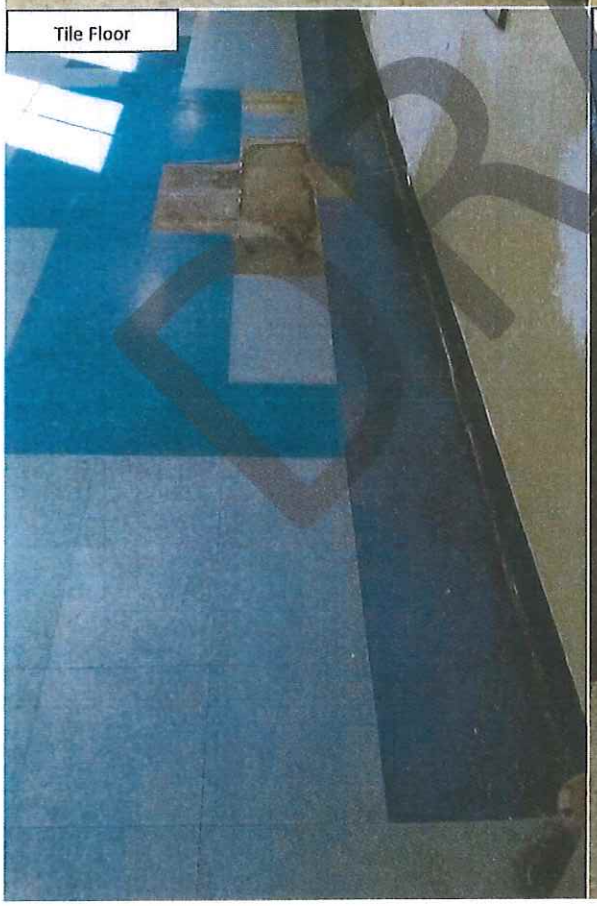

Roof Leak
EXIT
LIFE IS FULL OF CHOICES. CHOOSE CAREFULLY.

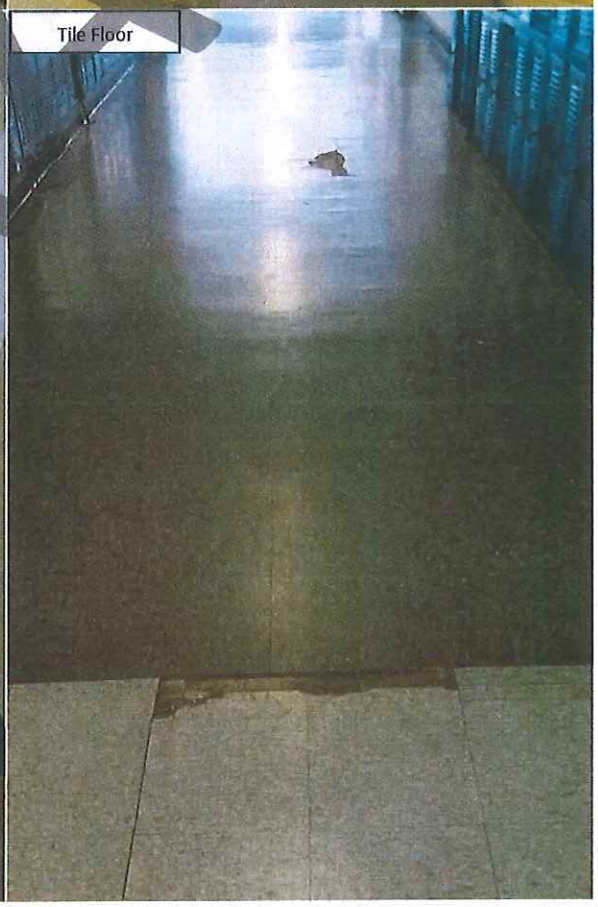

Roof Leak

DRAFT









DRAFT

BUILDING

4	NEW	New or like-new condition; no issues to report; no expected failures	No issues / violations or adverse conditions / less than 3 years old	Thirkell Elementary	SCHOOL NAME
3	GOOD	Good condition; no reported issues or concerns	No issues / violations or adverse conditions other than new	7724 14th Street	ADDRESS
2	FAIR	Average wear for building age; not new but no issues	Violations-90 days		BUILDING
1	POOR	Worn from use-end of expected lifecycle	Violations-45 days	13-Feb	SURVEY DATE
0	CRITICAL	Extremely worn or damaged	Violations / Imminent danger or inoperable	John M. Tisdale	SURVEYOR

		4	3	2	1	0	COMMENTS / RECOMMENDED ACTION
Civil							
	Perimeter Fencing		3				
	Paving Parking Lot (Asphalt / Concrete)		3				
	Curbing		3				
	On-Site Signage		3				
	Pedestrian Access (Michigan Barrier Free & Safety)		3				
Site Facilities							
	Loading Dock					N/A	
Michigan barrier free Compliance							
	Handicap Parking					N/A	
	Accessible Entry		3				
	Exterior Ramps and walks		3				
	Barrier free route (ROW - Sidewalk to Bldg. Entry)		3				
	Building Entry		3				
Foundation/Footings							
	Structure		3				
Columns/Beams/Walls							
	Structure		3				
	Applied Fireproofing Systems					N/A	
Roofing							
	Roof Openings (Skylights)					N/A	
	Roof Openings (Access)		3				
	Roof Equipment Curbing		3				
	Leakage			2			Roof leaked in several locations
	Ponding Water					N/A	
	Roof Drains		3				
	Gutters / Downspouts		3				
Exterior Walls							
	Exterior Finish		3				

DRAFT

BUILDING

4	NEW	New or like-new condition; no issues to report; no expected failures	No issues / violations or adverse conditions / less than 3 years old
3	GOOD	Good condition; no reported issues or concerns	No issues / violations or adverse conditions other than new
2	FAIR	Average wear for building age; not new but no issues	Violations-90 days
1	POOR	Worn from use -end of expected lifecycle	Violations-45 days
0	CRITICAL	Extremely worn or damaged	Violations / Imminent danger or inoperable

Thirkell Elementary	SCHOOL NAME
7724 14th Street	ADDRESS
	BUILDING
13-Feb	SURVEY DATE
John M. Tisdale	SURVEYOR

		4	3	2	1	0	COMMENTS / RECOMMENDED ACTION
	Expansion / Control Joints		3				
	Thermal Condition		3				
	Soffits		3				
	General Appearance		3				
Doors / Windows / Louvers							
	Windows		3				
	Louvers and Vents					N/A	
	Main Entry Doors		3				
	Main Entry Hardware		3				
	Other Exterior Doors					N/A	
	Other Exterior Door Hardware		3				
General							
	Wall Finishes (Classrooms)		3				
	Wall Finishes (Corridors)		3				
	Wall Finishes (Restrooms)		3				
	Wall Finishes (Others)						
	Ceilings			2			Ceiling is damaged due to roof leaks
	Cabinetry		3				
	Moveable / Operable Walls					N/A	
Interior Doors							
	Door & Frame Condition		3				
	Hardware Condition		3				
	Hallway Fire Door		3				
	Cafe / Concession Security Gates / Roll-up Doors					N/A	
Flooring							
	ACT					N/A	
	Drywall					N/A	
	Other					N/A	
	Carpet					N/A	

DRAFT

BUILDING

4	NEW	New or like-new condition; no issues to report; no expected failures	No issues / violations or adverse conditions / less than 3 years old
3	GOOD	Good condition; no reported issues or concerns	No issues / violations or adverse conditions other than new
2	FAIR	Average wear for building age; not new but no issues	Violations-90 days
1	POOR	Worn from use-end of expected lifecycle	Violations-45 days
0	CRITICAL	Extremely worn or damaged	Violations / Imminent danger or inoperable

Thirkell Elementary	SCHOOL NAME
7724 14th Street	ADDRESS
	BUILDING
13-Feb	SURVEY DATE
John M. Tisdale	SURVEYOR

		4	3	2	1	0	COMMENTS / RECOMMENDED ACTION
	VCT					N/A	
	Tile			2			Floor tiles are missing or damaged
	Terrazzo					N/A	
	Wood		3				
	Sealed Concrete					N/A	
Stairs							
	Landing finish		3				
	Stair treads		3				
	Stair nosings			2			Stair nosing are damaged
	Handrails		3				
Toilet Rooms							
	Flooring		3				
	Walls		3				
	Signage		3				

***Any violations reported in this school assessment were not given to the facility as violations to be corrected in order to maintain the certificate of occupancy for the facility. Any violations reported in this school assessment were not cited as part of a school safety inspection, they are strictly for the use of the assessment report.

DRAFT

MECHANICAL

4	NEW	New or like-new condition; no issues to report; no expected failures	No issues / violations or adverse conditions / less than 3 years old	Thrikell	SCHOOL NAME
3	GOOD	Good condition; no reported issues or concerns	No issues / violations or adverse conditions other than new	7724 14th street	ADDRESS
2	FAIR	Average wear for building age; not new but no issues	Violations-90 days		BUILDING
1	POOR	Worn from use -end of expected lifecycle	Violations-45 days	2/13/2017	SURVEY DATE
0	CRITICAL	Extremely worn or damaged	Violations / Imminent danger or inoperable	J.Paradine	SURVEYOR

		4	3	2	1	0	COMMENTS / RECOMMENDED ACTION
Gas System							
	Piping			2			
	Other (Vented Interior Regulators)			2			
	Gas PRV (Proximity to OA intakes)			2			
	Science Classroom Emergency Off Switch					N/A	
Cooling Plant							
	Distribution Piping (2 pipe or 4-pipe)					N/A	
	Chillers (Age, Refrigerant, Heat Rejection Method)					N/A	
	Cooling Towers (Age, Materials, VFD, Sufficiency)					N/A	
	CHW Pump Volute Insulation type (foamglass, Armaflex, phenolic foam, fiberglass, mineral wool)					N/A	
	Plant Piping & Valves (Corroded/Isolation valves)					N/A	
	Chilled Water Pipe Insulation & Jacket (Foamglass Armaflex					N/A	
	Campus Piping & Valves (Corroded/Isolation valves)					N/A	
	Refrigeration Room Monitoring and Ventilation					N/A	
Heating Plant							
	Boilers (Age, Fuel Type, Input/Output)			2			
	Pumps (VFD / Sound / Suction Pressure)			2			
	Plant Piping & Valves (Corroded/Isolation valves)			2			
	Campus Piping & Valves (Corroded/Isolation valves)			2			
	Boiler Room E-Stop					N/A	
Dedicated Airside Heating Systems							
	Heating-Only Air Handling Units (Age)			2			
	Duct Furnaces (Fuel, Type, Age, Mission)			2			
	Unit Heaters (Fuel, Type, Age, Mission)			2			
	Heating-Only Unit Ventilators (year, condition)			2			
Air Distribution							
	Outside Air Units (Age, HR Type, ERV, Unitary, VAV)			2			
	Rooftop ACUs (Age, Gas Heat or Heat Pump)					N/A	

DRAFT

MECHANICAL

4	NEW	New or like-new condition; no issues to report; no expected failures	No issues / violations or adverse conditions / less than 3 years old
3	GOOD	Good condition; no reported issues or concerns	No issues / violations or adverse conditions other than new
2	FAIR	Average wear for building age; not new but no issues	Violations-90 days
1	POOR	Worn from use -end of expected lifecycle	Violations-45 days
0	CRITICAL	Extremely worn or damaged	Violations / Imminent danger or inoperable

SCHOOL NAME	Thrikell
ADDRESS	7724 14th street
BUILDING	
SURVEY DATE	2/13/2017
SURVEYOR	J.Paradine

			4	3	2	1	0	COMMENTS / RECOMMENDED ACTION
	Central Station AHUs (Age, Type/Geometry, VAV, typ. SAT dual path unit)						N/A	
	Terminal Units (VAV, VAV/reheat, Heat source, Close- off VAV, SFPU, PFPU)				2			
Exhaust Systems								
	Restrooms						N/A	
	Locker Rooms						N/A	
	Kitchen	Hood Systems (Grease or Heat only, Ansul system, Heat sensor start)			2			Type 2 only no fire suppression
		Exhaust Fan Outlet height (Is it <40")			2			
	Science	Room Emergency Exhaust (Operation)					N/A	
		Fume Exhaust (Latest year certified, sash height, manifolded, VAV, fan location)					N/A	
		Stack outlet height (is it <10')					N/A	
	Art Kiln	Exhaust Fan / Exhaust Hood					N/A	
Refrigeration Systems								
	Freezer Systems (Age, Location, Refrigerant)				2			
	Cooler Systems (Age, Location, Refrigerant)				2			
Indoor Swimming Pool Systems								
	Vent and Pool Heater						N/A	
Fire Alarm System and Fire Suppression								
	Fire suppression				2			

***Any violations reported in this school assessment were not given to the facility as violations to be corrected in order to maintain the certificate of occupancy for the facility. Any violations reported in this school assessment were not cited as part of a school safety inspection, they are strictly for the use of the assessment report.

DRAFT

PLUMBING

4	NEW	New or like-new condition; no issues to report; no expected failures	No issues / violations or adverse conditions / less than 3 years old	Thirkell	SCHOOL NAME
3	GOOD	Good condition; no reported issues or concerns	No issues / violations or adverse conditions other than new	1724 14th st	ADDRESS
2	FAIR	Average wear for building age; not new but no issues	Violations-90 days		BUILDING
1	POOR	Worn from use -end of expected lifecycle	Violations-45 days	2/13/2017	SURVEY DATE
0	CRITICAL	Extremely worn or damaged	Violations / Imminent danger or inoperable	Kole Myers	SURVEYOR

		4	3	2	1	0	COMMENTS / RECOMMENDED ACTION
Site Utilities							
	Backflow Preventer			2			
	Water Service Piping			2			
Roofing							
	Roof Drains (piping)			2			
2							
	Toilet Partitions			2			
General							
	Custodial Closets (Mop Sinks)			2			
	Laboratory Sinks					N/A	
	Eyewash / Emerg. Shower (Tepid Water)					N/A	
	Showers (Self metering, Shutoff)					N/A	
	Kitchen (POU Grease, Interceptor)			2			
	Grease (Indoor/outdoor, Interceptor)					N/A	
	Water Fountains (Self contained water cooler, bubbler)			2			not in use/stainless/porcelain
	Sewer Ejector systems			2			
	Dilution Tanks (Science Classrooms/Neutralization tanks)					N/A	
	DWV			2			
Restrooms							
	Water Closets			2			
	Urinals			2			
	Lavatories / Sinks			2			
Water Distribution							
	Water Distribution Piping			2			
	Water Heaters (Separate from Bldg. Heating / Kitchen)			2			kitchen/complete building
	Water Meter			2			
Food Service							
	SS Sinks			2			
	Mop Sinks					N/A	

DRAFT

PLUMBING

4	NEW	New or like-new condition; no issues to report; no expected failures	No issues / violations or adverse conditions / less than 3 years old
3	GOOD	Good condition; no reported issues or concerns	No issues / violations or adverse conditions other than new
2	FAIR	Average wear for building age; not new but no issues	Violations-90 days
1	POOR	Worn from use -end of expected lifecycle	Violations-45 days
0	CRITICAL	Extremely worn or damaged	Violations / Imminent danger or inoperable

Thirkell	SCHOOL NAME
1724 14th st	ADDRESS
	BUILDING
2/13/2017	SURVEY DATE
Kole Myers	SURVEYOR

		4	3	2	1	0	COMMENTS / RECOMMENDED ACTION
	Water and Drains			2			
Domestic Water Heating							
	Dedicated Heater for Kitchen					N/A	
	Recirculation Pump (Operating- Yes/No)			2			

***Any violations reported in this school assessment were not given to the facility as violations to be corrected in order to maintain the certificate of occupancy for the facility. Any violations reported in this school assessment were not cited as part of a school safety inspection, they are strictly for the use of the assessment report.

DRAFT

BOILER

4	NEW	New or like-new condition; no issues to report; no expected failures	No issues / violations or adverse conditions / less than 3 years old	Thirkell	SCHOOL NAME
3	GOOD	Good condition; no reported issues or concerns	No issues / violations or adverse conditions other than new	7724 14th Street	ADDRESS
2	FAIR	Average wear for building age; not new but no issues	Violations-90 days		BUILDING
1	POOR	Worn from use -end of expected lifecycle	Violations-45 days	2/13/2017	SURVEY DATE
0	CRITICAL	Extremely worn or damaged	Violations / Imminent danger or inoperable	J. Paradine	SURVEYOR

Heating Plant		4	3	2	1	0	COMMENTS / RECOMMENDED ACTION
	Boilers (Age, Fuel Type, Input/Output)			2			orginal
	Pumps (VFD / Sound / Suction Pressure)			2			
	Plant Piping & Valves (Corroded/Isolation Valves)			2			

***Any violations reported in this school assessment were not given to the facility as violations to be corrected in order to maintain the certificate of occupancy for the facility. Any violations reported in this school assessment were not cited as part of a school safety inspection, they are strictly for the use of the assessment report.

DRAFT

ELEVATOR

4	NEW	New or like-new condition; no issues to report; no expected failures	No issues / violations or adverse conditions / less than 3 years old	Thrikell	SCHOOL NAME
3	GOOD	Good condition; no reported issues or concerns	No issues / violations or adverse conditions other than new	7724 14th Street	ADDRESS
2	FAIR	Average wear for building age; not new but no issues	Violations-90 days		BUILDING
1	POOR	Worn from use -end of expected lifecycle	Violations-45 days	2/13/2017	SURVEY DATE
0	CRITICAL	Extremely worn or damaged	Violations / Imminent danger or inoperable	J.Paradine	SURVEYOR

Elevator State Serial Number:

		4	3	2	1	0	COMMENTS / RECOMMENDED ACTION
	Machine Room Equipment					N/A	
	Door Operators and Operating Equipment					N/A	
	Interior Cab / Signage / Emerg. Phone					N/A	
	Hoistway Pit					N/A	
	Landing Fixtures					N/A	
	Operating Condition					N/A	
	Ropes / Hoisting Equipment					N/A	
	Hoistway Equipment					N/A	
	Fire and Emergency Service					N/A	

***Any violations reported in this school assessment were not given to the facility as violations to be corrected in order to maintain the certificate of occupancy for the facility. Any violations reported in this school assessment were not cited as part of a school safety inspection, they are strictly for the use of the assessment report.

DRAFT

ELECTRICAL

4	NEW	New or like-new condition; no issues to report; no expected failures	No issues / violations or adverse conditions / less than 3 years old	Thirkell Elementary	SCHOOL NAME
3	GOOD	Good condition; no reported issues or concerns	No issues / violations or adverse conditions other than new	7724 14th St	ADDRESS
2	FAIR	Average wear for building age; not new but no issues	Violations-90 days		BUILDING
1	POOR	Worn from use -end of expected lifecycle	Violations-45 days	2/13/2017	SURVEY DATE
0	CRITICAL	Extremely worn or damaged	Violations / Imminent danger or inoperable	Lance Ash	SURVEYOR

		4	3	2	1	0	COMMENTS / RECOMMENDED ACTION
Electrical Supply							
	Service Switchgear/Electrical Service (Observed Condition)		3				Electrical service and switchgear were
	District-owned Site Transformers (Observed Condition)		3				Primary transformer was recently updated
	Motor Control Centers			2			
Electrical Distribution							
	Equipment			2			
	Panelboards (Condition & Capacity)			2			
	Feeders (Observed Condition)			2			
	Devices (Switches & Receptacles)			2			
	TSS - Surge Suppression					N/A	
	Transformers			2			
Lighting							
	Classroom (Instructional)			2			
	Corridor / Common Areas			2			
	Restrooms			2			
	High Bay Areas			2			
	Emergency (Condition & Code Compliance)			2			Several emergency/exit lights were not
	Exterior Perimeter (Building Mounted)			2			
	Lighting Controls (Building Level)			2			Outside lights are being controlled by a timer
Other							
	Kitchen Equipment Supply			2			
	Emergency Generator (Observed Condition)					N/A	
	Intercom / PA Systems (Observed Condition)			2			
	Fire Alarm System (Observed Condition)			2			

***Any violations reported in this school assessment were not given to the facility as violations to be corrected in order to maintain the certificate of occupancy for the facility. Any violations reported in this school assessment were not cited as part of a school safety inspection, they are strictly for the use of the assessment report.

DRAFT

Appendix C: School Quality Maps

DRAFT

Thirkell ES - MS: Qualified Schools 5 Miles

February 18, 2017

Est. Service Area

Schools

Elementary School

ES-MS

Most Grades (PK-12)

Selected School: Thirkell Elementary School

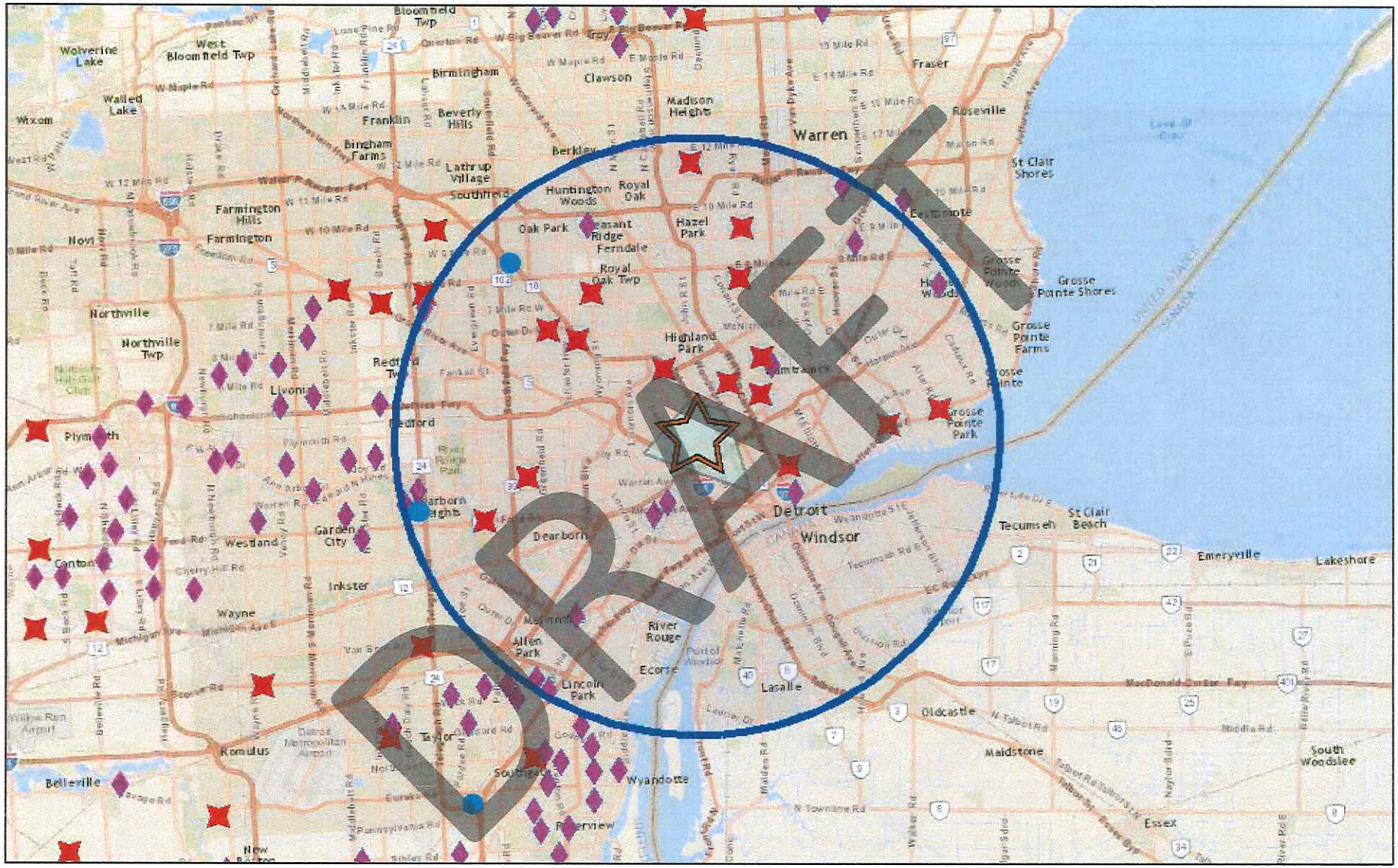
0 1.25 2.5 5 mi

0 2 4 8 km

Sources: Esri, HERE, DeLorme, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand),

Area Schools radius: 5 Miles | Map: State of Michigan - CSS (2017©)

Thirkell ES - MS: Qualified Schools 10 Miles



February 18, 2017

Est. Service Area

Schools

Elementary School

ES-MS

Most Grades (PK-12)

Selected School: Thirkell Elementary School

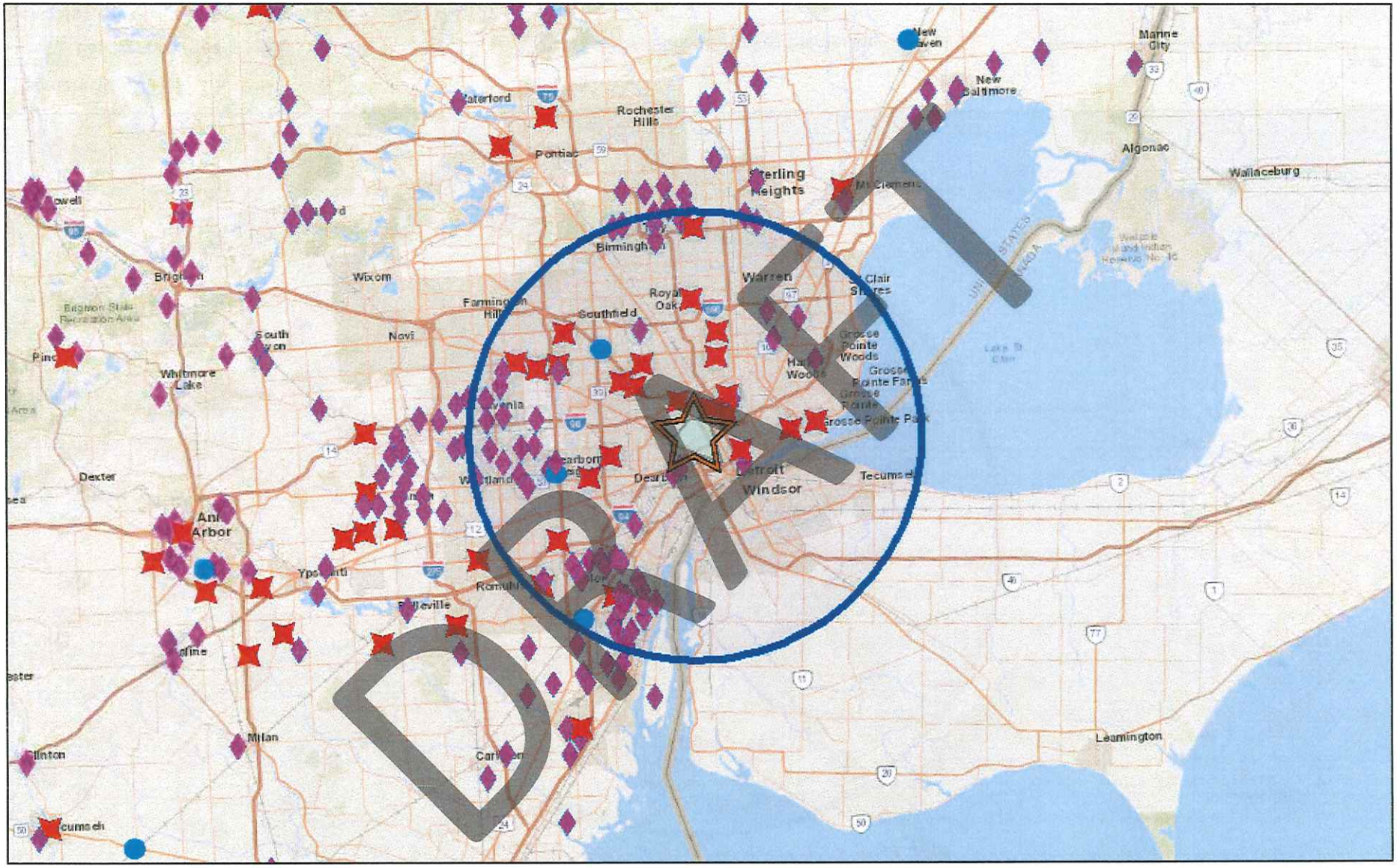
0 2.5 5 10 mi

0 4 8 16 km

Sources: Esri, HERE, DeLorme, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand),

Area Schools radius: 10 Miles | Map: State of Michigan - CSS (2017©)

Thirkell ES - MS: Qualified Schools 15 Miles



February 18, 2017

Est. Service Area

Schools

Elementary School

ES-MS

Most Grades (PK-12)

Selected School: Thirkell Elementary School

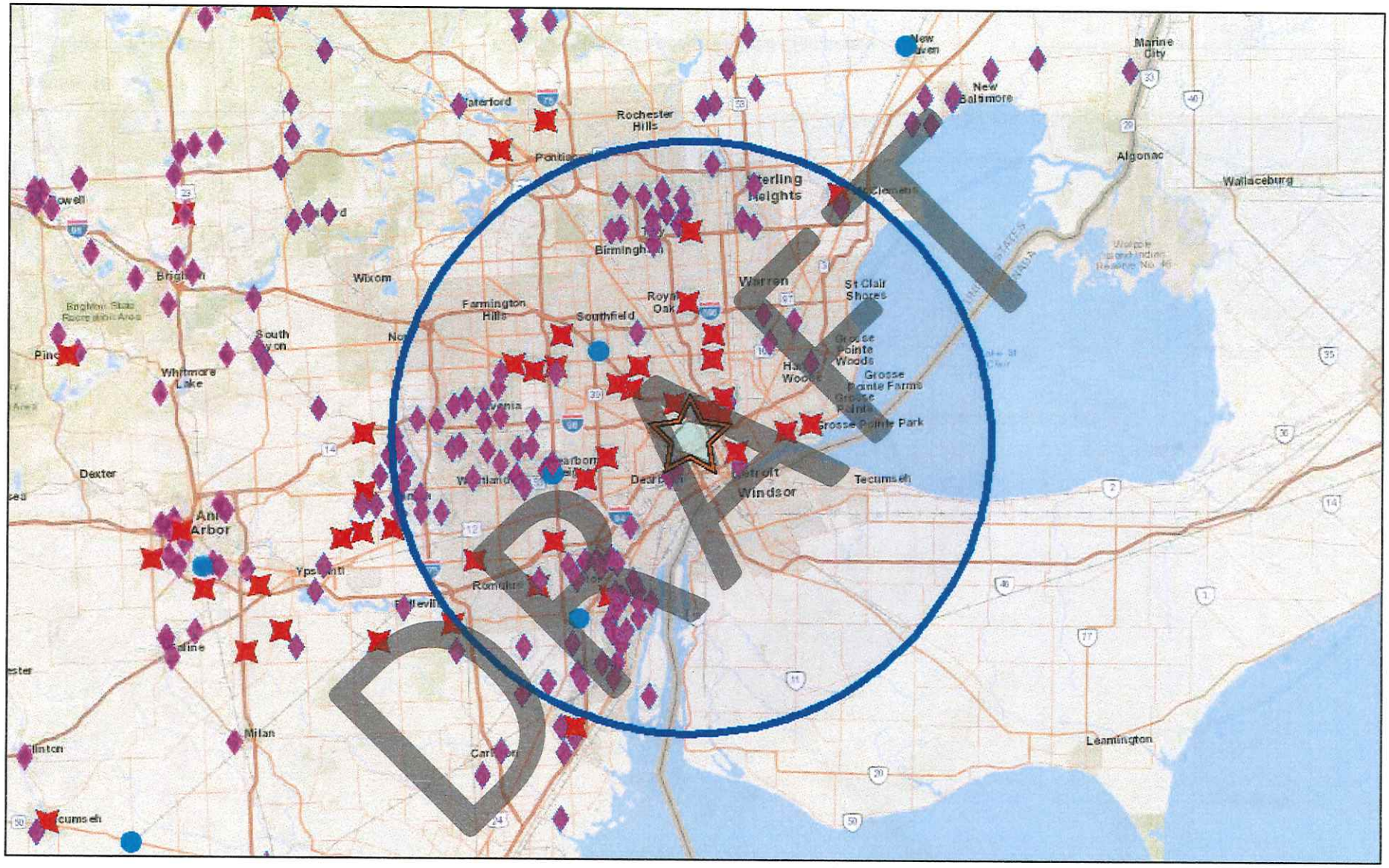
0 5 10 20 mi

0 5 10 20 km

Sources: Esri, HERE, DeLorme, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand),

Area Schools radius: 15 Miles | Map: State of Michigan - CSS (2017©)

Thirkell ES - MS: Qualified Schools 20 Miles



February 18, 2017

Est. Service Area

Schools

Elementary School

ES-MS

Most Grades (PK-12)

Selected School: Thirkell Elementary School

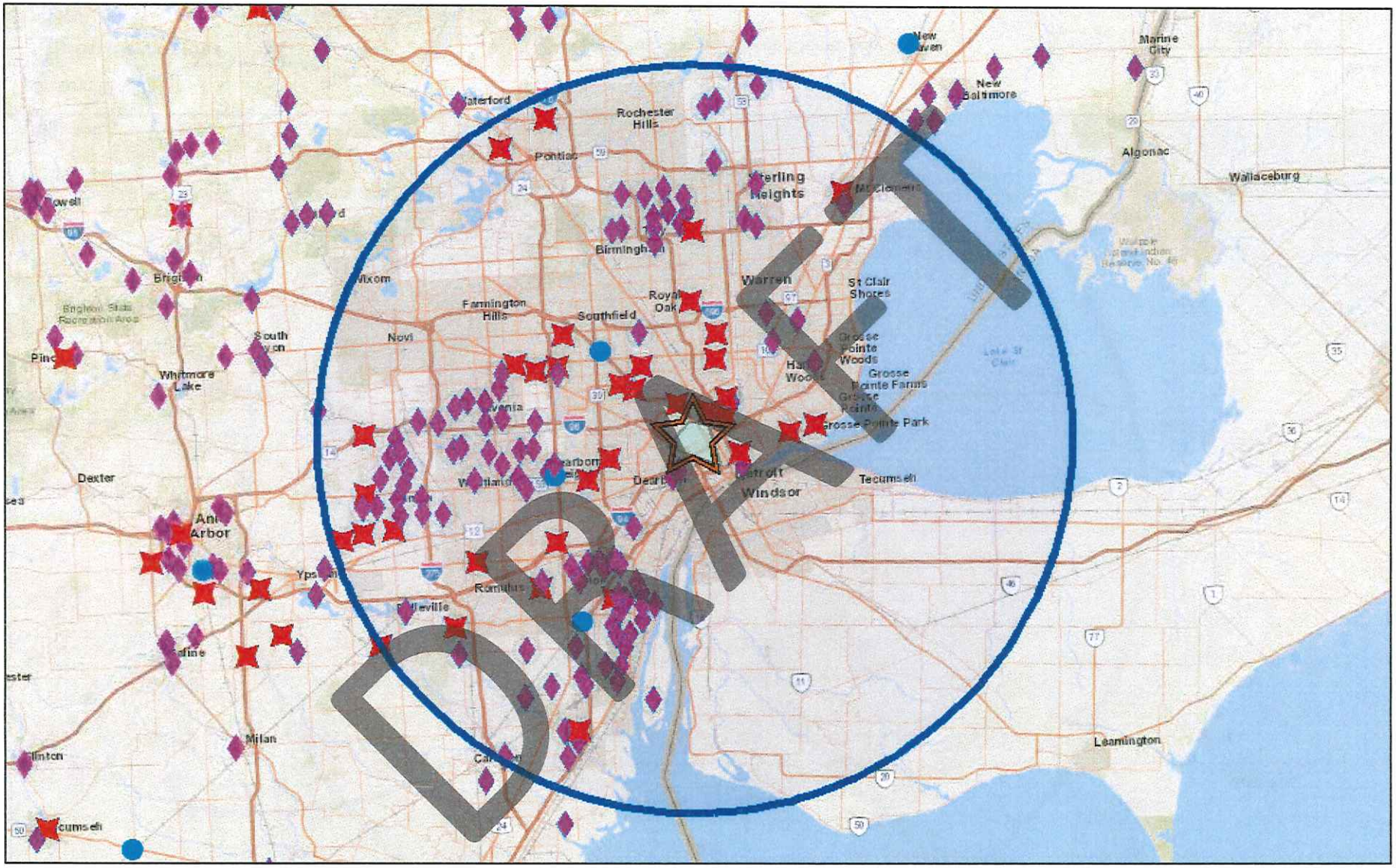
0 5 10 20 mi

0 5 10 20 km

Sources: Esri, HERE, DeLorme, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand),

Area Schools radius: 20 Miles | Map: State of Michigan - CSS (2017©)

Thirkell ES - MS: Qualified Schools 25 Miles



February 18, 2017

Est. Service Area

Schools

Elementary School

ES-MS

Most Grades (PK-12)

Selected School: Thirkell Elementary School

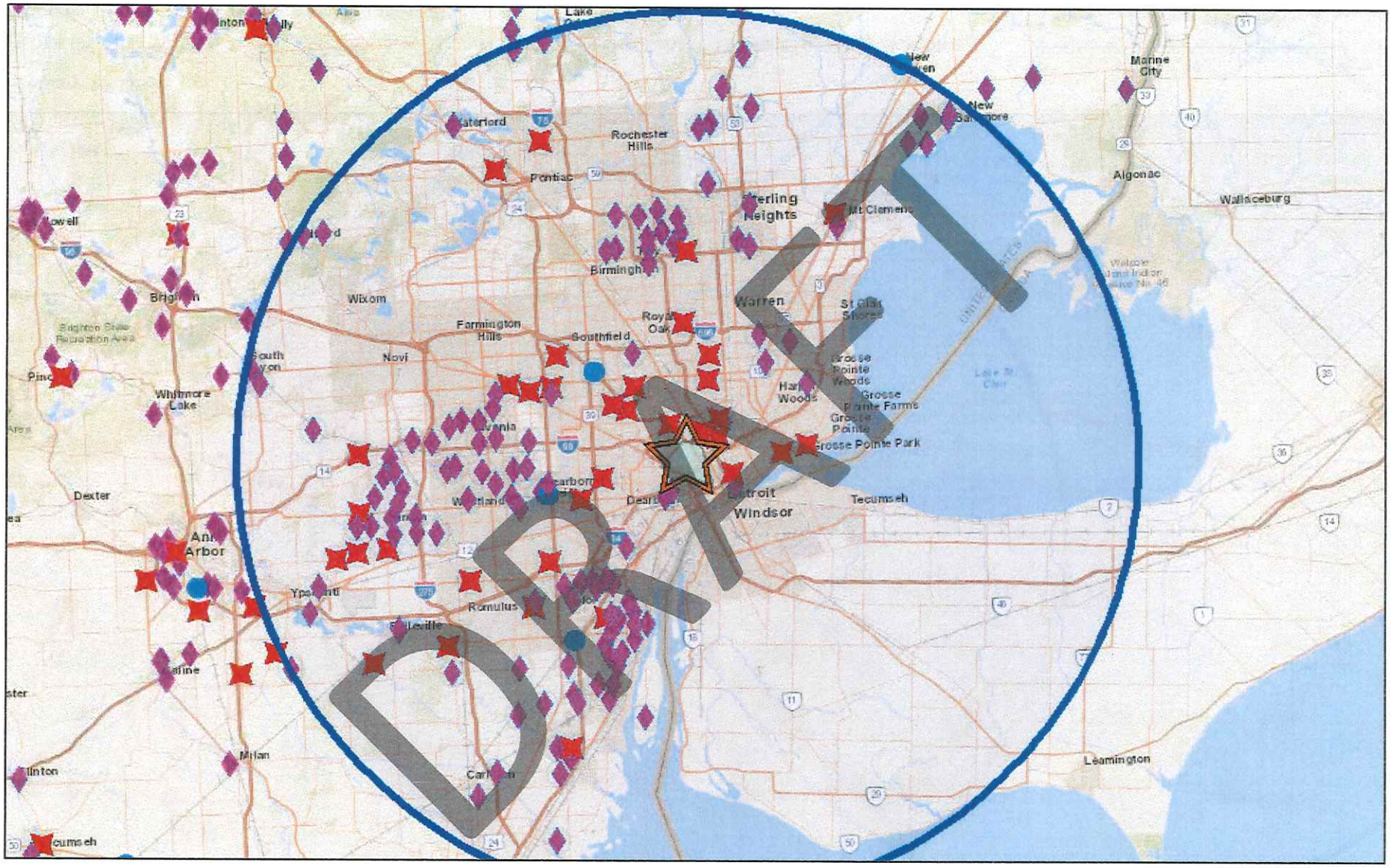
0 5 10 20 mi

0 5 10 20 km

Sources: Esri, HERE, DeLorme, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand),

Area Schools radius: 25 Miles | Map: State of Michigan - CSS (2017©)

Thirkell ES - MS: Qualified Schools 30 Miles



February 18, 2017

Est. Service Area

Schools

Elementary School

ES-MS

Most Grades (PK-12)

Selected School: Thirkell Elementary School

0 5 10 20 mi

0 5 10 20 km

Sources: Esri, HERE, DeLorme, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand),

Area Schools radius: 30 Miles | Map: State of Michigan - CSS (2017©)

Appendix D: Financial Impact

DRAFT

Appendix D: Financial Impact

Schools Identified for the Next Level of Accountability Outstanding Obligations		
Detroit Public Schools Community District		
Loan Type	**Loan Balance**	**Maturity**
No Debt		

Schools' Potential Losses from School Closures						
Schools	**Allowance**	**Student Count (Losing)**	**Foundation (Losing)**	**Student Count (Total)**	**Foundation (Total)**	**% of Foundation**
Ann Arbor Trail Magnet School	$ 7,552	346	$ 2,612,992	45,198.72	$ 341,340,733.44	0.77%
Bow Elementary-Middle School	$ 7,552	520	$ 3,927,040	45,199.72	$ 341,348,285.44	1.15%
Clark, J.E. Preparatory Academy	$ 7,552	661	$ 4,991,872	45,200.72	$ 341,355,837.44	1.46%
Detroit Collegiate Preparatory High School @ Northwestern	$ 7,552	556	$ 4,198,912	45,201.72	$ 341,363,389.44	1.23%
Detroit Institute of Technology at Cody	$ 7,552	269	$ 2,031,488	45,202.72	$ 341,370,941.44	0.60%
Durfee Emementary-Middle School	$ 7,552	474	$ 3,579,648	45,203.72	$ 341,378,493.44	1.05%
Fisher Magnet Upper Academy	$ 7,552	456	$ 3,443,712	45,204.72	$ 341,386,045.44	1.01%
Gompers Elementary-Middle School	$ 7,552	777	$ 5,867,904	45,205.72	$ 341,393,597.44	1.72%

Appendix D: Financial Impact *(continued)*

Schools' Potential Losses from School Closures						
Schools	**Allowance**	**Student Count (Losing)**	**Foundation (Losing)**	**Student Count (Total)**	**Foundation (Total)**	**% of Foundation**
Henderson Academy	$ 7,552	695	$ 5,248,640	45,206.72	$ 341,401,149.44	1.54%
Marquette Elementary-Middle School	$ 7,552	589	$ 4,448,128	45,207.72	$ 341,408,701.44	1.30%
Mason Elementary School	$ 7,552	437	$ 3,300,224	45,208.72	$ 341,416,253.44	0.97%
Osborn Academy of Mathematics	$ 7,552	266	$ 2,008,832	45,209.72	$ 341,423,805.44	0.59%
Osborn College Preparatory Academy	$ 7,552	200	$ 1,510,400	45,210.72	$ 341,431,357.44	0.44%
Osborn Evergreen Academy of Design and Alternative Energy	$ 7,552	327	$ 2,469,504	45,211.72	$ 341,438,909.44	0.72%
Sampson Academy	$ 7,552	300	$ 2,265,600	45,212.72	$ 341,446,461.44	0.66%
Thirkell Elementary	$ 7,552	645	$ 4,871,040	45,213.72	$ 341,454,013.44	1.43%
TOTAL	$ 7,552	7,518.00	$ 56,775,936	45,214.72	$ 341,461,565.44	16.63%
DPSCD 2016 Federal Revenues	**General Fund**	$ 141,120,709.00				
	Food Service	$ 46,134,274.00				
	Debt Service	$ 13,396,896.00				
	Total	$ 200,651,879.00				

Source: Michigan Department of Treasury