# Ferndale High School and Middle School Select Toilet Room and Classroom Renovation

Ferndale Public Schools  
871 Pinecrest  
Ferndale, Michigan

## Code Information

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<tr>
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## List of Drawings

### Architectural
- A0.1 Architectural Reference Information
- A0.3 Street Level Composite Plan
- A0.4 Upper Level Composite Plan
- A2.1 Street Level Enlarged Demo and New Work Plans
- A2.2 Upper Level Enlarged Demo and New Work Plans
- A5.1 Details and Partition Types
- A6.1 Enlarged Plans & Details
- A8.1 Interior Elevations
- A8.2 Interior Elevations
- A9.1 Door and Room Finish Schedule
- A10.1 Enlarged Finish Plans

### Mechanical
- M0.1 Mechanical Reference Information
- M2.1 Partial Street Level Plans - Demolition and New Work
- M2.2 Partial Upper Level Plans - Demolition and New Work
- M4.1 Temperature Controls
- M5.1 Schedules and Details

### Electrical
- E0.1 Electrical Reference Information
- E0.2 Tunnel Level Composite Plan
- E0.3 Lower Level Composite Plan
- E0.4 Street Level Composite Plan
- E0.5 Upper Level Composite Plan
- E2.1 Street Level Enlarged Demolition and New Work Plans and Fixture Schedule
- E2.2 Street Level Enlarged Demolition and New Work Plans
- E2.3 Upper and Lower Level Enlarged Demo and New Work Plans
- E5.1 Partial One Line Diagram
- E7.1 Panel Schedules

## Applicable Construction Codes and Standards

- **Fire Alarm**: Michigan Department of Licensing and Regulatory Affairs, Bureau of Construction Codes, Electrical Division, 2014 Michigan Electrical Code, Incorporating the 2014 Edition of the National Electrical Code
- **Mechanical**: Michigan Department of Licensing and Regulatory Affairs, Bureau of Construction Codes, Mechanical Division, 2015 Michigan Mechanical Code, Incorporating the 2015 Edition of the International Mechanical Code
- **American with Disabilities Act (ADA) 2010 - Standards for Accessible Design**: U.S. Department of Justice and Architecture and Transportation Barriers Compliance Board
KEYNOTES

C1 MODIFY EXISTING ACOUSTICAL TILE CEILING SYSTEM
IN METAL GRID TO ACCOMMODATE NEW WORK
C2 09 5123 ACOUSTICAL TILE CEILING SYSTEM IN EXPOSED METAL GRID
C3 EXIST ACOUSTICAL TILE CEILING SYSTEM IN METAL GRID TO REMAIN. MODIFY WHERE INDICATED ON DRAWINGS
C4 09 2900 GYP BD CEILING ON METAL RUNNERS SUSPENDED FROM ABOVE
C5 23 0000 RADIANT CEILING PANEL IN 09 2900 GYP BD CEILING - REFER TO MECH
C6 26 0000 RECESSED COVE LIGHT - REFER TO ELEC AND DETAIL 3/A6.1
C7 08 3113 ACCESS PANEL
C8 REMOVE AND REINSTALL PORTIONS OF LAY IN CEILING PANELS TO ACCOMODATE ELECTRICAL WORK. EXTENT OF WORK SHOWN ON SHEET A0.4

FERNDALE SCHOOLS

Ferndale High School and Middle School Select Toilet Room and Classroom Renovation
Ferndale Public Schools
871 Pinecrest, Ferndale, Michigan

1/32" = 1'-0"

50% Owner Review 2-6-2018
100% Owner Review 3-13-2018
Quality Management Review 3-19-2018
Bids 4-3-2018
GENERAL NOTES

A. New Work reflected ceiling plans

B. Enlarged gross motor skills referee ceiling plan

C. Enlarged gross motor skills new work plan

D. Enlarged gross motor skills demolition plan

E. Enlarged life skills new work plan

F. Enlarged life skills new work plan

G. Enlarged life skills demolition plan

H. Enlarged life skills new work plan

KEYNOTES

A. New work reflected ceiling plans

B. Enlarged gross motor skills new work plan

C. Enlarged gross motor skills demolition plan

D. Enlarged life skills new work plan

E. Enlarged life skills demolition plan

F. Enlarged life skills new work plan

G. Enlarged life skills new work plan

H. Enlarged life skills new work plan

LEGEND

A. New work reflected ceiling plans

B. Enlarged gross motor skills new work plan

C. Enlarged gross motor skills demolition plan

D. Enlarged life skills new work plan

E. Enlarged life skills demolition plan

F. Enlarged life skills new work plan

G. Enlarged life skills new work plan

H. Enlarged life skills new work plan
A. REFER TO DRAWING A5.1 FOR TYPICAL ROOFING DETAILS.

B. COORDINATE SIZE AND LOCATION OF ALL EQUIPMENT SUPPORTS WITH INFORMATION PROVIDED BY THE APPROPRIATE EQUIPMENT MANUFACTURER AND TRADE CONTRACTORS.

C. REFER TO MECHANICAL AND ELECTRICAL DOCUMENTS FOR ALL PIPES, CURBS, VENTS, DUCTS, CONDUITS, LIGHTNING PROTECTION, AND OTHER FEATURES EXTENDING THROUGH THE ROOF SURFACES WHICH REQUIRE FLASHING AND COORDINATE SIZE AND LOCATION OF SAME.
Project Title: Ferndale High School and Middle School Select Toilet Room and Classroom Renovation

Ferndale Public Schools
871 Pinecrest
Ferndale, Michigan

Project Architect / Engineer: Couture / Easthope
Project Designer: Sundberg
Q.M. Review: Easthope
Approved: Sundberg

Drawing Scale: 1/4" = 1'-0"
Drawing Number: A10.1
Reference Finish Floor Elevation: XXX' - XX"

Issued for: 5211 Cascade Road SE, Suite 300
Grand Rapids, Michigan 49546

Issue Date: 3/28/2018, LLC

Drawing Title: Enlarged Finish Plans

Website: www.XXXXX.com

Address: 1441 west long lake, suite 200
Troy, Michigan 48098

Contact: 248.823.2100
www.ids-troy.com

Reference Plan Number: 17226-1000

The notes below are specific to the Enlarged Finish Plans:

1. **Key Plan**: Enlarged Toilet Room - Finish Plans
2. **Legend**: Reference to Section Title: A9.1
4. **F1**: Install Wall Protection Panel WP-01
5. **F2**: Shower Curtain Shall Be FB-01 with Liner FB-02

Enlarged Finish Plans

FERNDALE SCHOOLS

Project Number: 17226-1000

A0.3

ENLARGED LIFE SKILLS - FINISH PLAN

ENLARGED TOILET ROOM - FINISH PLANS

ENLARGED GROSS MOTOR SKILLS - FINISH PLAN

ENLARGED LIFE SKILLS - FINISH PLAN
1. THE TOILET RM EXHAUST FAN IS AUTOMATICALLY STARTED AND STOPPED BY THE BUILDING AUTOMATION SYSTEM. THE FAN SHALL BE PROVIDED WITH A 7-DAY TIME CLOCK PROGRAM.

2. THE EXHAUST FAN ISOLATION DAMPER SHALL OPEN WHENEVER THE FAN IS STARTED AND SHALL CLOSE WHEN THE FAN IS STOPPED.

SEQUENCE OF OPERATION

MANUAL MOTOR STARTER

FAN MOTOR

1.

TO WATER

WATER RETURN

DOMESTIC HOT WATER RETURN RECIRCULATION PUMP IS STARTED AND STOPPED BY THE AQUASTAT. THE PUMP SHALL BE ENERGIZED TO MAINTAIN A MINIMUM 90 DEG F RETURN WATER TEMPERATURE.

120 VAC POWER

MANUAL MOTOR STARTER

PUMP MOTOR

SEQUENCE OF OPERATION:

THE SPACE THERMOSTAT SHALL CYCLE THE RADIANT CEILING PANEL CONTROL VALVE TO MAINTAIN A MINIMUM SPACE TEMPERATURE.

120 VAC POWER

TO CAUTION

PUMP P-1

MOTOR STARTER WIRING DETAIL

EXHAUST FAN EF-1

MOTOR STARTER WIRING DETAIL

RADIANT CEILING PANEL

CONTROL DIAGRAM

DOMESTIC HOT WATER RETURN PUMP P-1

CONTROL DIAGRAM

TEMPERATURE CONTROLS
**LIGHTING FIXTURE SCHEDULE**

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<tr>
<th>Type</th>
<th>Description</th>
<th>Manufacturer</th>
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<tr>
<td>LD</td>
<td>6&quot; WIDE, RECESSED LINEAR LED WALL WASH LIGHT FIXTURE WITH; 950 LUMENS PER FOOT; ONE PIECE STEEL HOUSING; WHITE POWDER COAT FINISH; LED MODULE AND DRIVER</td>
<td></td>
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<tr>
<td>LA</td>
<td>2' X 4' LAY-IN LED LUMINAIRE WITH: ACRYLIC PRISMATIC PATTERN 12 LENS WITH AN OVERALL THICKNESS OF .125 INCH (MINIMUM); LENS RETAINING CLIPS (2 MINIMUM, 1 PER</td>
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<tr>
<td>LC</td>
<td>6&quot; (NOMINAL) ROUND APERTURE, RECESSED LED DOWNLIGHT LUMINAIRE WITH: 2000 (NOMINAL) LUMENS; MATTE-DIFFUSE CLEAR REFLECTOR AND WHITE PAINTED FLANGE;</td>
<td></td>
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<tr>
<td>LB</td>
<td>6&quot; (NOMINAL) ROUND APERTURE, RECESSED LED SHOWER DOWNLIGHT LUMINAIRE WITH: 1,000 (NOMINAL) LUMENS; 6 1/2&quot; HOUSING DEPTH; NON-CONDUCTIVE FRONT</td>
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**DISCONNECT; INTEGRALLY FUSED; UL LISTED; SUITABLE FOR DAMP LOCATION; 277 VOLT OPERATION. FIXTURE LENGTHS AS NOTED ON PLANS. PROVIDE EMERGENCY BATTERY PACKS AS INDICATED ON PLANS.**

**REPLACEABLE FROM BELOW; 0-10V DIMMABLE ELECTRONIC POWER SUPPLY, WIRED FOR NON-DIMMING, WITH OVERLOAD AND SHORT CIRCUIT PROTECTION; INTEGRAL DRIVER DISCONNECT; INTEGRALLY FUSED; 277 VOLT OPERATION.**

**NOTE:** MUST BE FULLY LUMINOUS LENS WITH GRID STYLE LEDS. NO STRIP STYLE LEDS.
106 LIFE SKILLS
106A TOILET ROOM
106E STORAGE
106D DE-ESCALATION
106C STORAGE
106B SHWR

GFI
EWH
P-1
2#10, 1#10N, 1#10 GRD
2#8, 1#10 GRD - 3/4" C.

PROVIDE NEW LOCKING PANEL COVER ON EXISTING PANEL.
EXTEND EXISTING BRANCH CIRCUIT TO NEW RECEPTACLE.

REMOVE AND REINSTALL LIGHT SWITCHES AS NECESSARY TO ALLOW FOR INSTALLATION OF NEW DOOR. COORDINATE WITH MASONRY CONTRACTOR.
Ferndale High School and Middle School Select Toilet Room and Classroom Renovation
Ferndale Public Schools
871 Pinecrest
Ferndale, MI

Upper and Lower Level Enlarged Demo and New Work Plans

ENLARGED CUSTODIAL CLOSET
POWER AND AUXILIARY PLAN

ENLARGED CUSTODIAL CLOSET
DEMOITION PLAN

ENLARGED TUNNEL ENTRY POWER
AND AUXILIARY SYSTEMS PLAN

ENLARGED TUNNEL ENTRY
DEMOITION PLAN

ENLARGED BATHROOM POWER
AND AUXILIARY PLAN

ENLARGED BATHROOM LIGHTING
PLAN

ENLARGED BATHROOM DEMOLITION
PLAN

KEY NOTES

1. REMOVE DRYER AND HAND OVER TO OWNER. CIRCUIT TO REMAIN FOR NEW HAND DRYER IN NEW LOCATION. SEE ENLARGED PLAN 3 THIS SHEET FOR LOCATION.

ENLARGED TUNNEL ENTRY
DEMOITION PLAN

ENLARGED CUSTODIAL CLOSET
POWER AND AUXILIARY PLAN

ENLARGED CUSTODIAL CLOSET
DEMOITION PLAN

ENLARGED TUNNEL ENTRY POWER
AND AUXILIARY SYSTEMS PLAN

ENLARGED TUNNEL ENTRY
DEMOITION PLAN

ENLARGED BATHROOM POWER
AND AUXILIARY PLAN

ENLARGED BATHROOM LIGHTING
PLAN

ENLARGED BATHROOM DEMOLITION
PLAN

KEY NOTES

1. EXTEND EXISTING BRANCH CIRCUIT TO NEW HAND DRYER LOCATION.

ENLARGED CUSTODIAL CLOSET
POWER AND AUXILIARY PLAN

ENLARGED CUSTODIAL CLOSET
DEMOITION PLAN

ENLARGED TUNNEL ENTRY POWER
AND AUXILIARY SYSTEMS PLAN

ENLARGED TUNNEL ENTRY
DEMOITION PLAN

ENLARGED BATHROOM POWER
AND AUXILIARY PLAN

ENLARGED BATHROOM LIGHTING
PLAN

ENLARGED BATHROOM DEMOLITION
PLAN

KEY NOTES

1. EXTEND AND REUSE EXISTING BRANCH CIRCUIT.
**Panel Schedules**

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<th>Symbols</th>
<th>Load Classification</th>
<th>Total Connected Load</th>
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**Panel Information**

- **Load Classification**: Total, Connected Load
- **Total Connected Load**: 10529 VA

**Symbols**

- **Panel Information Symbols**: Load Classification
- **Total Connected Load**: 10529 VA

**Panel - CR**

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**References**

- **Project Title**: Ferndale High School and Middle School Select Toilet Room and Classroom Renovation
- **Ferndale, MI**, 2017, LLC
- **Project Number**: 100% Owner Review 3-13-2018
- **Project Administrator**: S. Maciejewski
- **Bids**: 4-3-2018
- **Issued for**: Panel Schedules
- **Drawing Title**: FERNDALE SCHOOLS
- **Drawing Number**: E6.1
- **Issue Date**: 2-11-2018
- **Key Plan**: DRAWN BY C. Azar
- **Q.M. Review**: T. Carron

**Contact Information**

- **Ferndale High School and Middle School Select Toilet Room and Classroom Renovation**
- **Project Title**: ids-troy.com
- **Reference**: 5211 cascade road SE, suite 300
- **100% Owner Review**: troy, michigan 48098
- **Bid
date**: 4-3-2018
- **drawn by**: IDS Drawing Title
- **issue date**: 2-11-2018
- **project administrator**: S. Maciejewski
- **project designer**: C. Azar
- **project title**: FERNDALE SCHOOLS
- **Reference Finish Floor Elevation: XXX' Room and Classroom**
- **FERNADEL**
- **SCHOOLS**
- **www.ids-troy.com**
- **Ferndale, Mi**
- **Renovation**
- **IDS Drawing Title**
- **Drawing Number**: E6.1
- **Project Administrator**: S. Maciejewski
- **Project Designer**: C. Azar
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